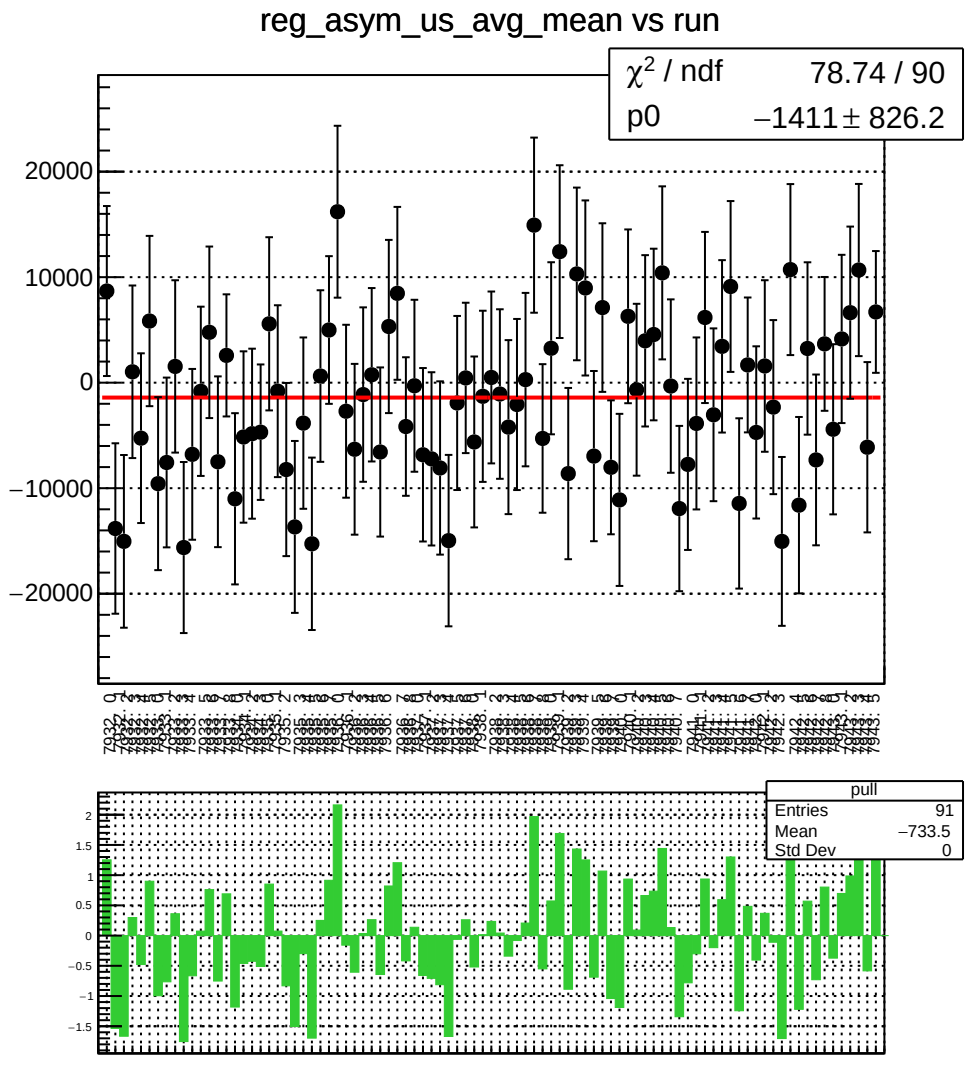
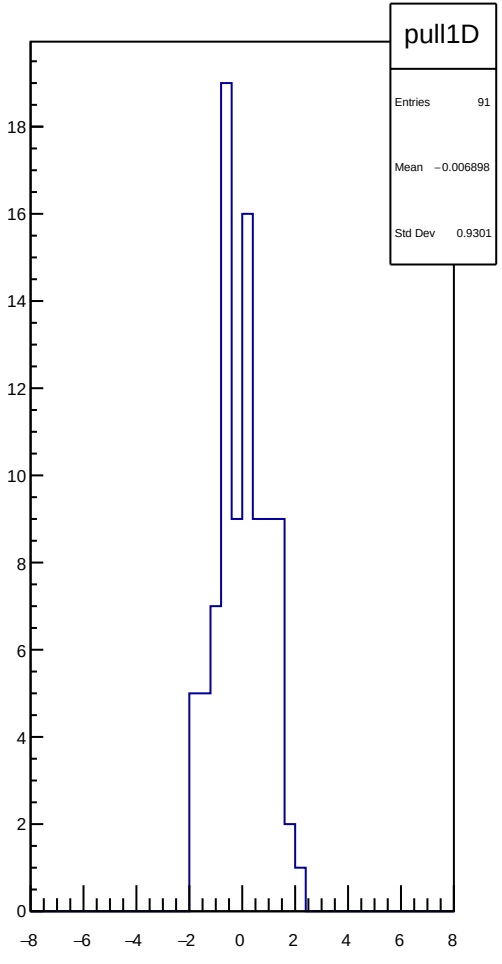
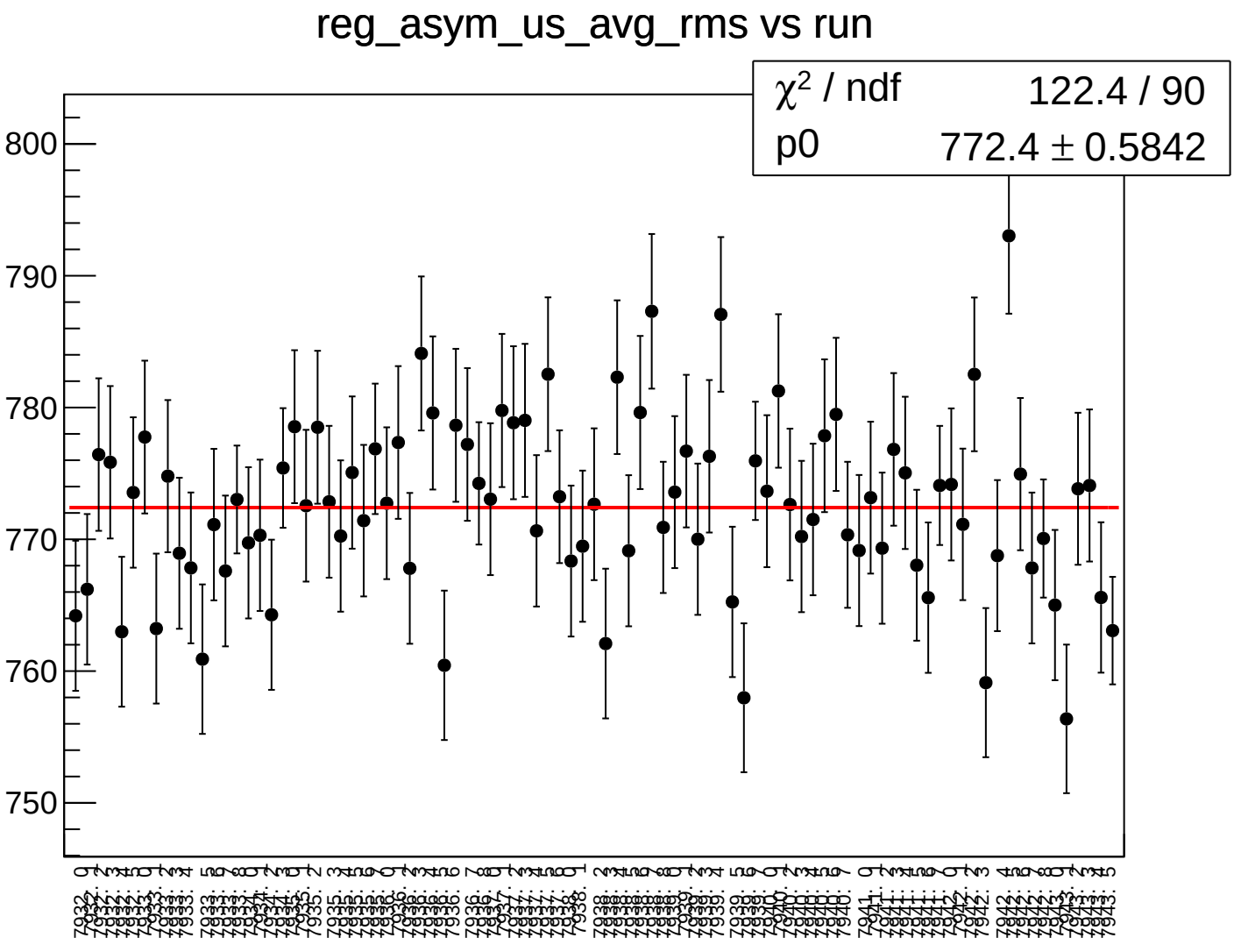
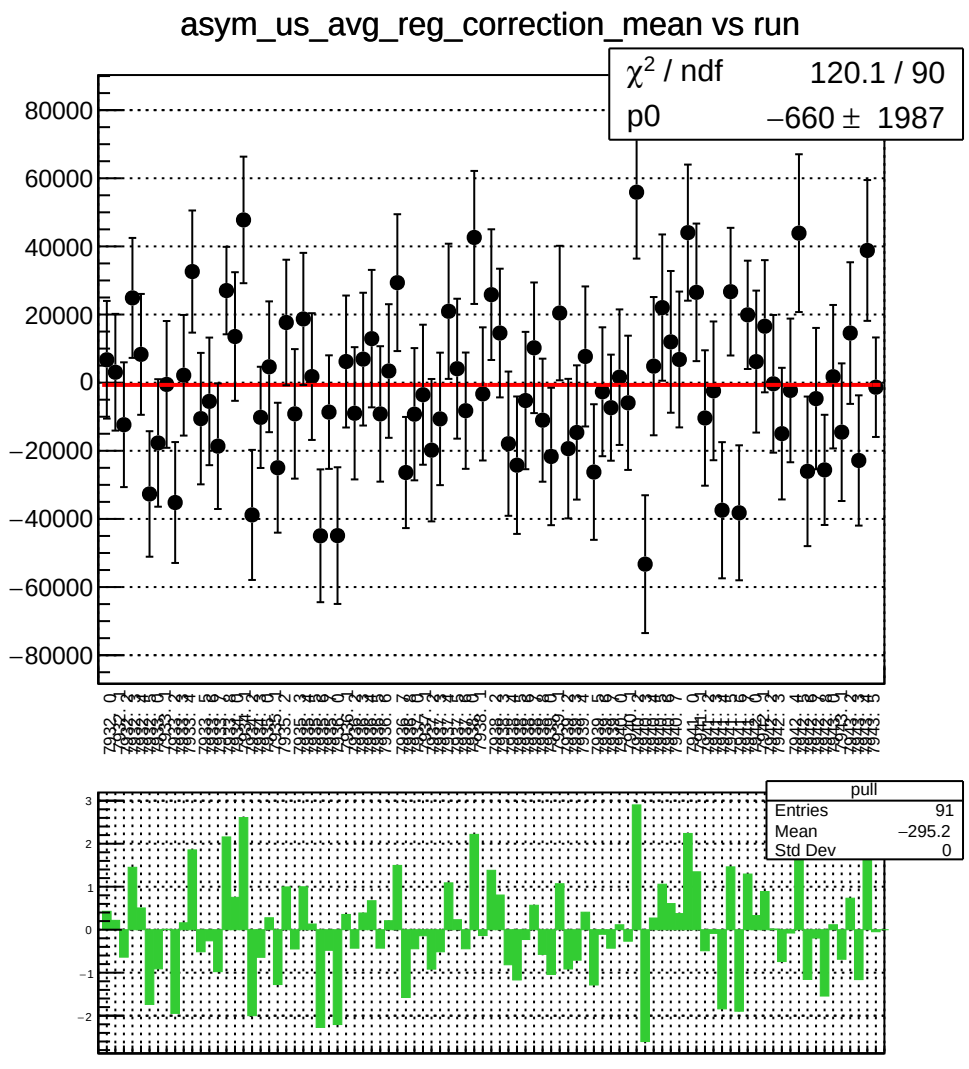
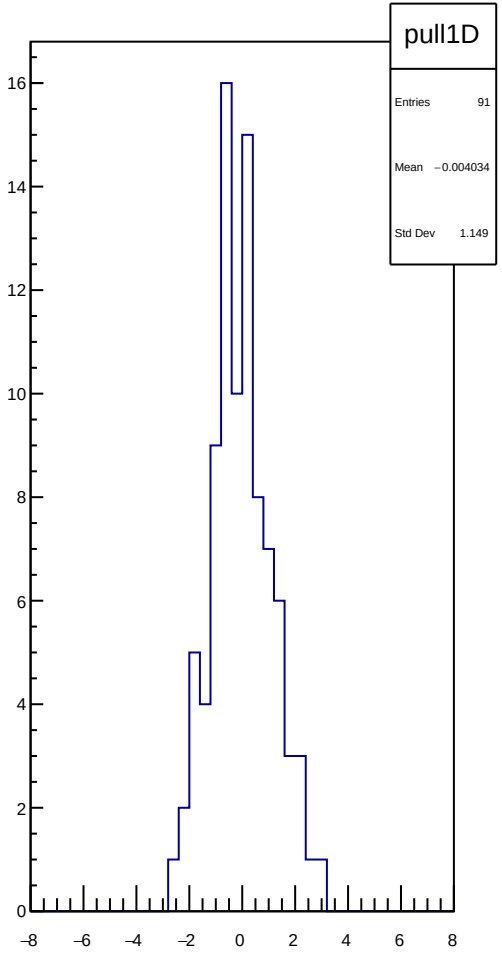
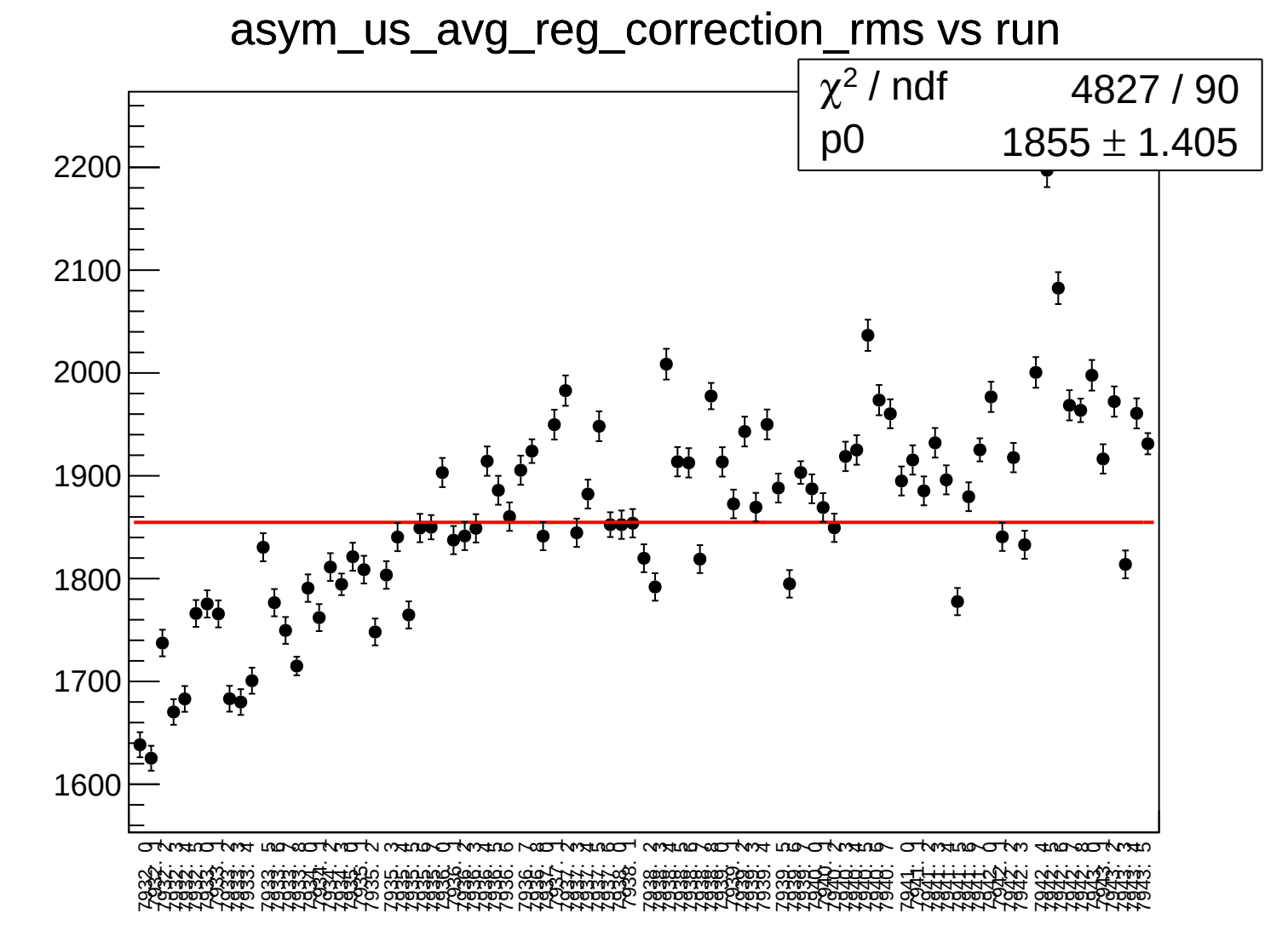

reg_asym_us_avg_mean vs run
χ² / ndf 78.74 / 90
p0 −1411 ± 826.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −733.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

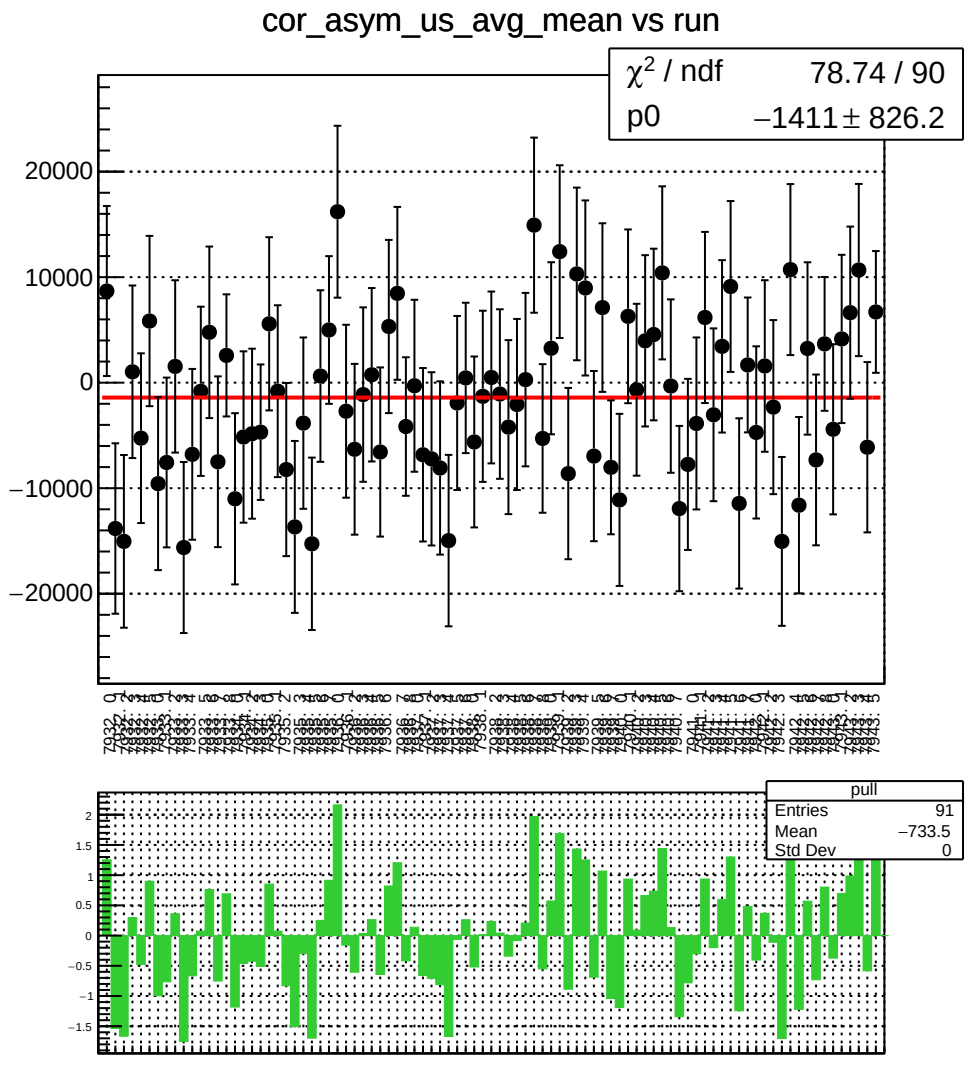

pull1D
Entries 91
Mean −0.006898
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

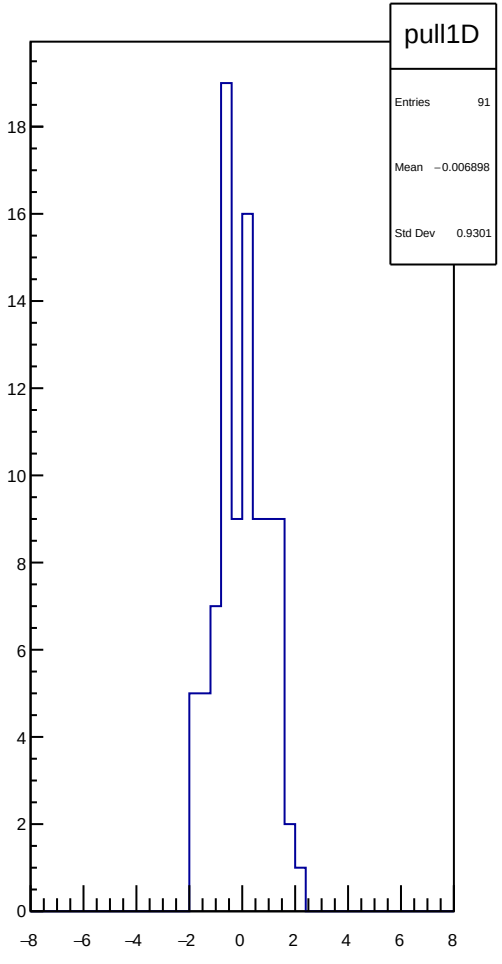

reg_asym_us_avg_rms vs run
χ² / ndf 122.4 / 90
p0 772.4 ± 0.5842
800
790
780
770
760
750

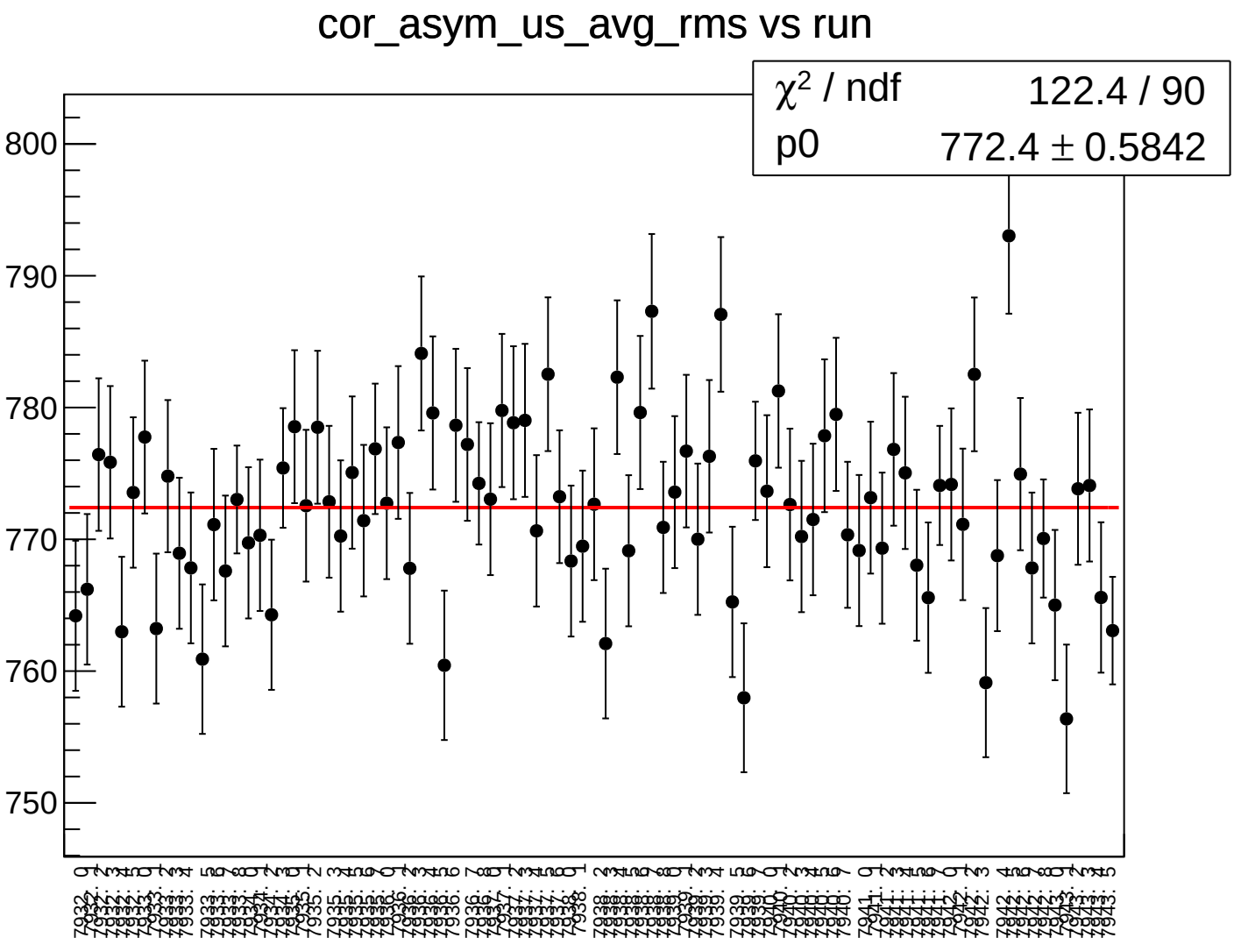

asym_us_avg_reg_correction_mean vs run
χ² / ndf 120.1 / 90
p0 −660 ± 1987
pull
Entries 91
Mean −295.2
Std Dev 0

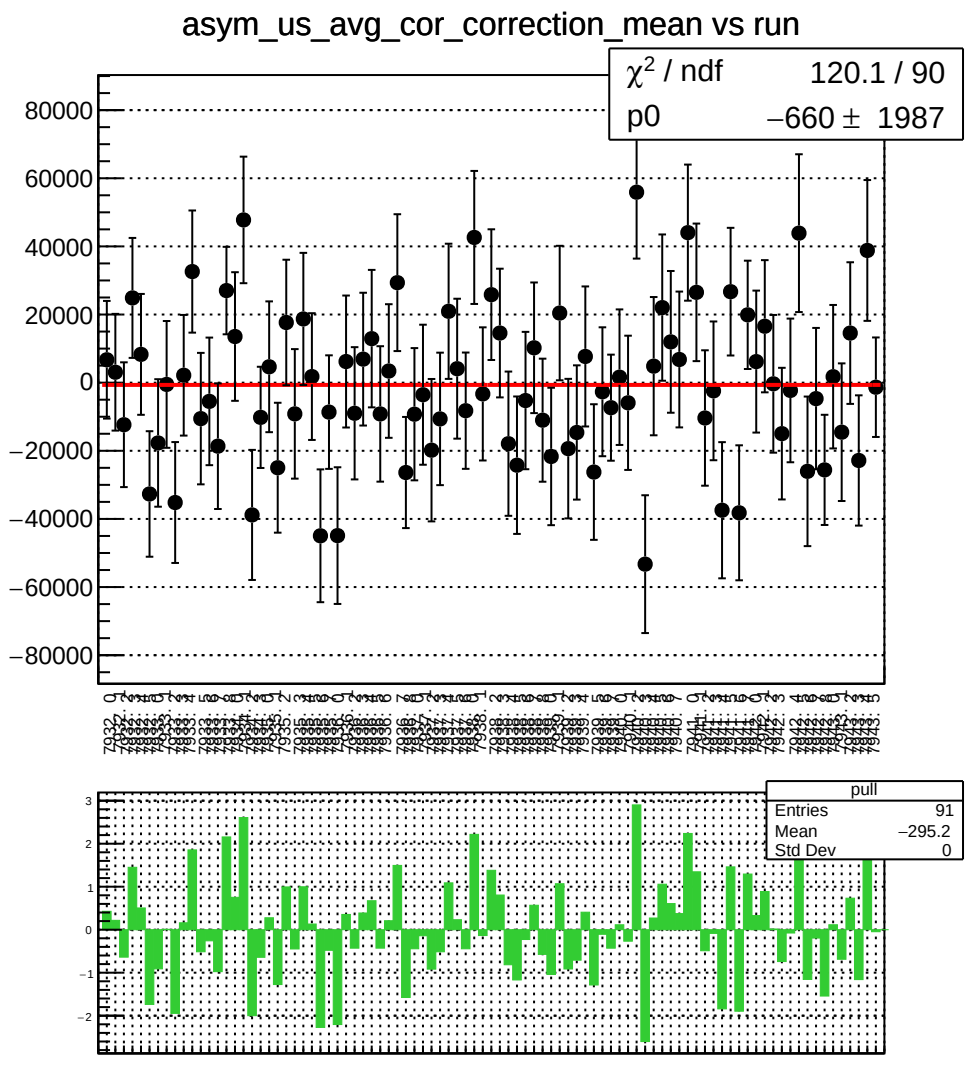

pull1D
Entries 91
Mean −0.004034
Std Dev 1.149

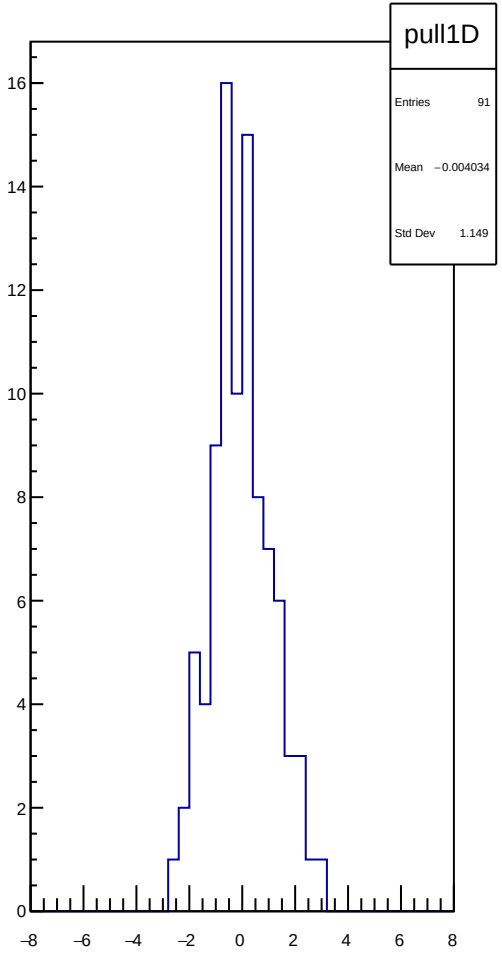

asym_us_avg_reg_correction_rms vs run
χ^2 / ndf 4827 / 90
p0 1855 ± 1.405
2200
2100
2000
1900
1800
1700
1600

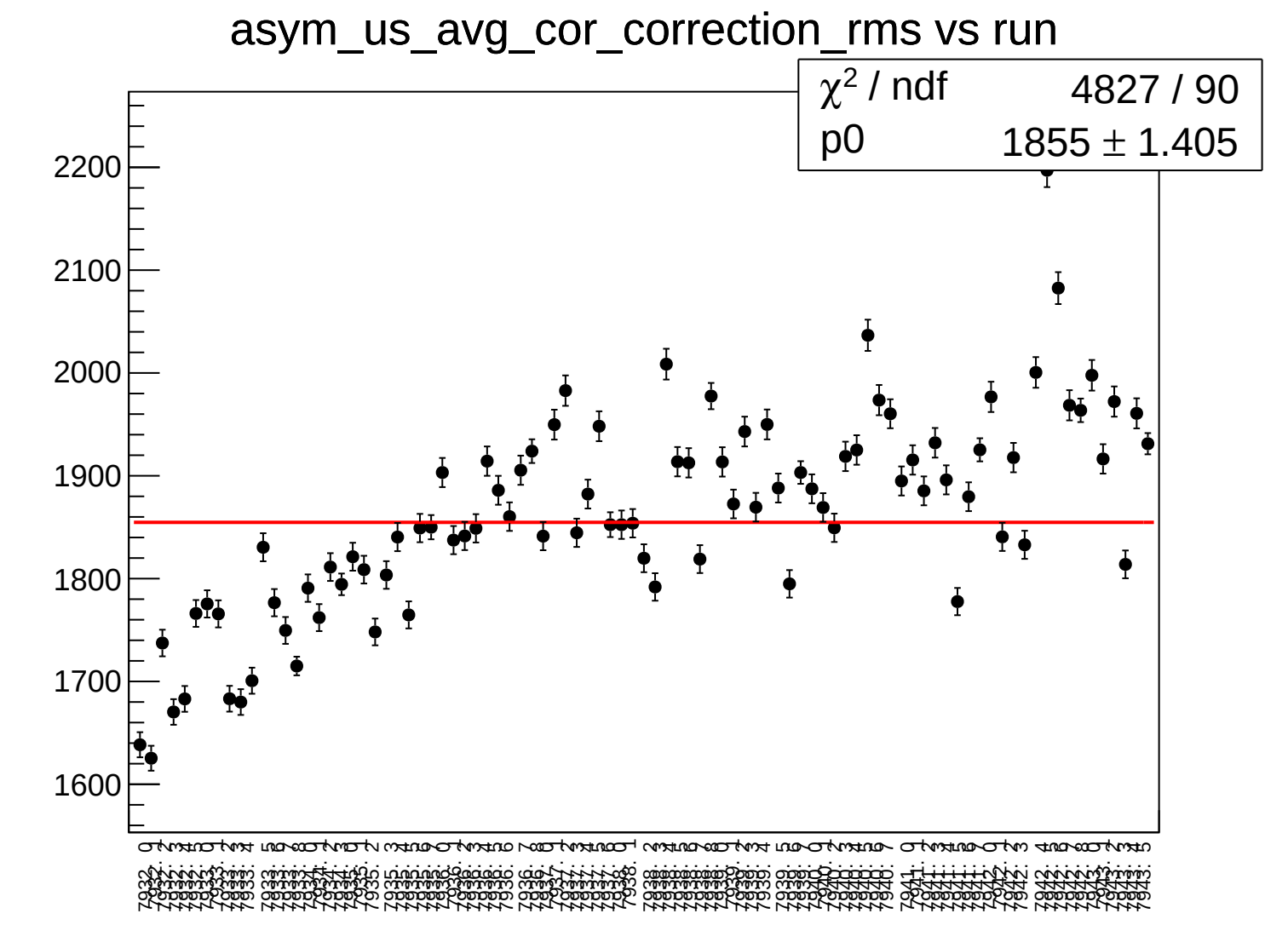

cor_asym_us_avg_mean vs run
χ² / ndf 78.74 / 90
p0 −1411 ± 826.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −733.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

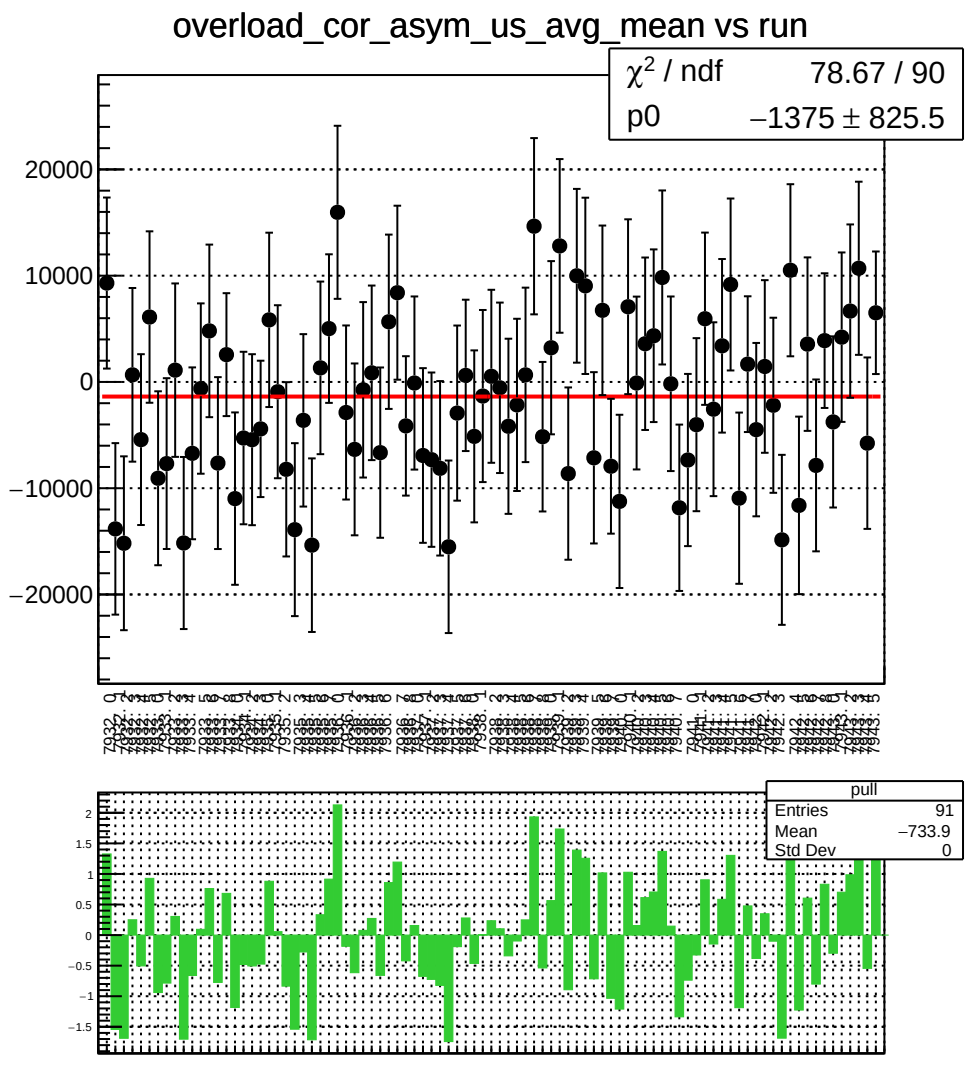

pull1D
Entries 91
Mean −0.006898
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

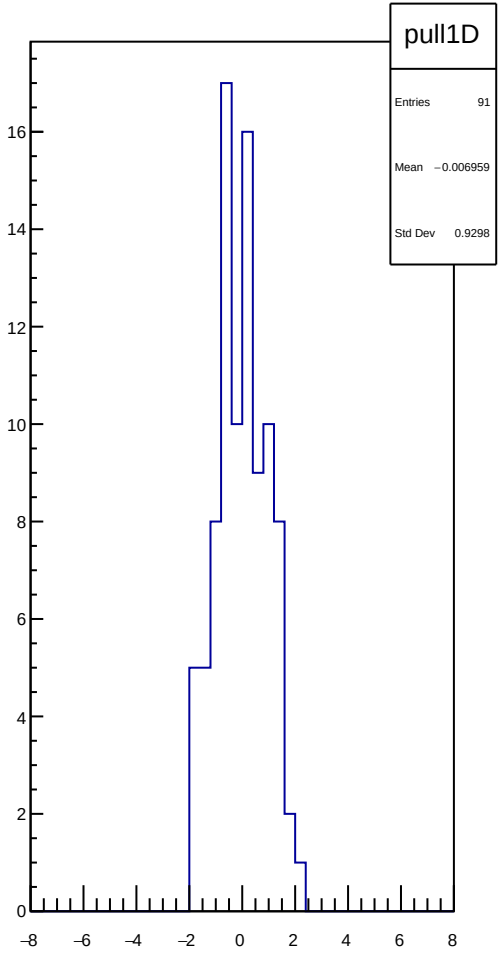

cor_asym_us_avg_rms vs run
χ² / ndf 122.4 / 90
p0 772.4 ± 0.5842
800
790
780
770
760
750


asym_us_avg_cor_correction_mean vs run
χ² / ndf 120.1 / 90
p0 −660 ± 1987
pull
Entries 91
Mean −295.2
Std Dev 0


pull1D
Entries 91
Mean −0.004034
Std Dev 1.149


asym_us_avg_cor_correction_rms vs run
χ² / ndf 4827 / 90
p0 1855 ± 1.405
2200
2100
2000
1900
1800
1700
1600


overload_cor_asym_us_avg_mean vs run
χ² / ndf 78.67 / 90
p0 −1375 ± 825.5
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −733.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 91
Mean −0.006959
Std Dev 0.9298
16
14
12
10
8
6
4
2
0
−8
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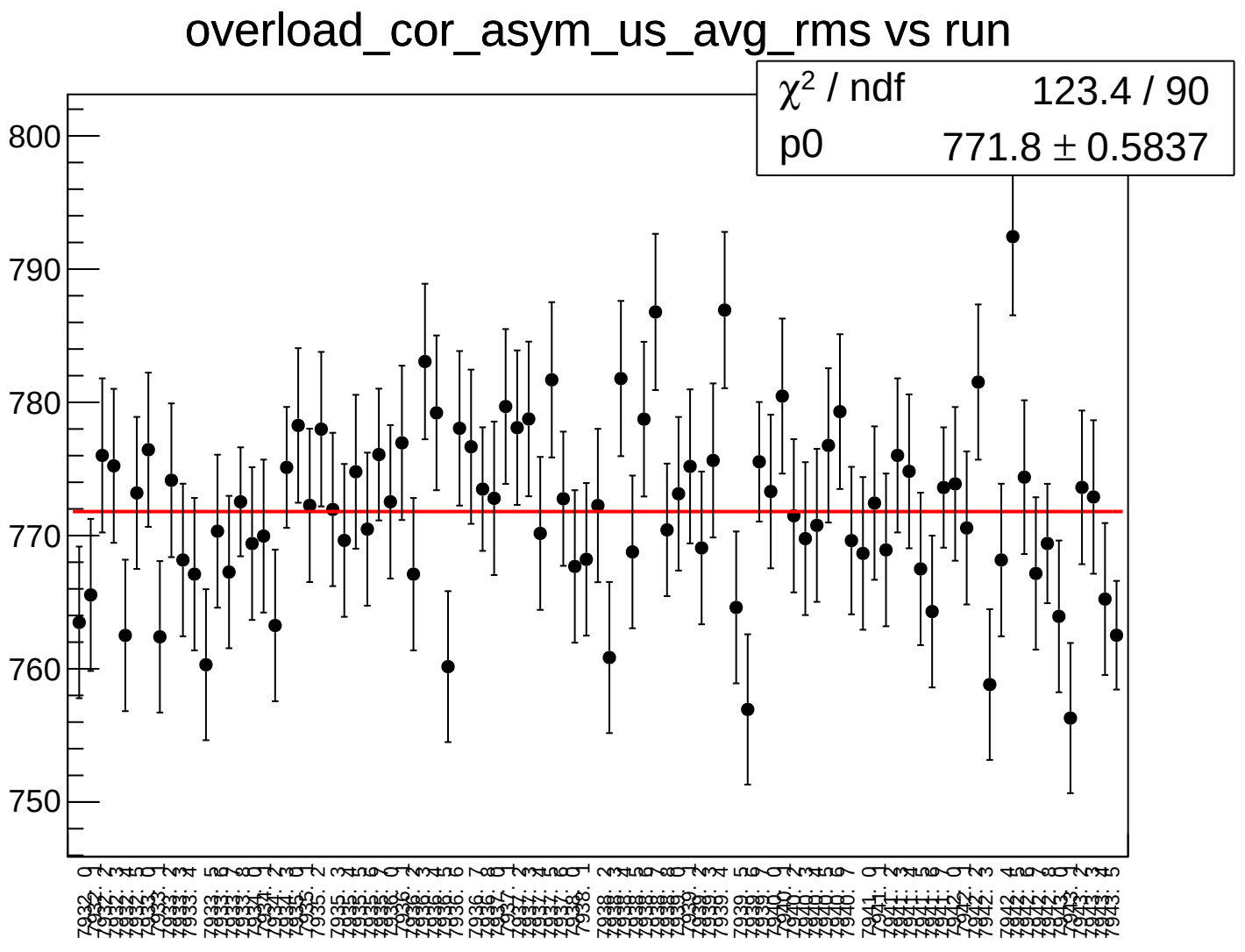
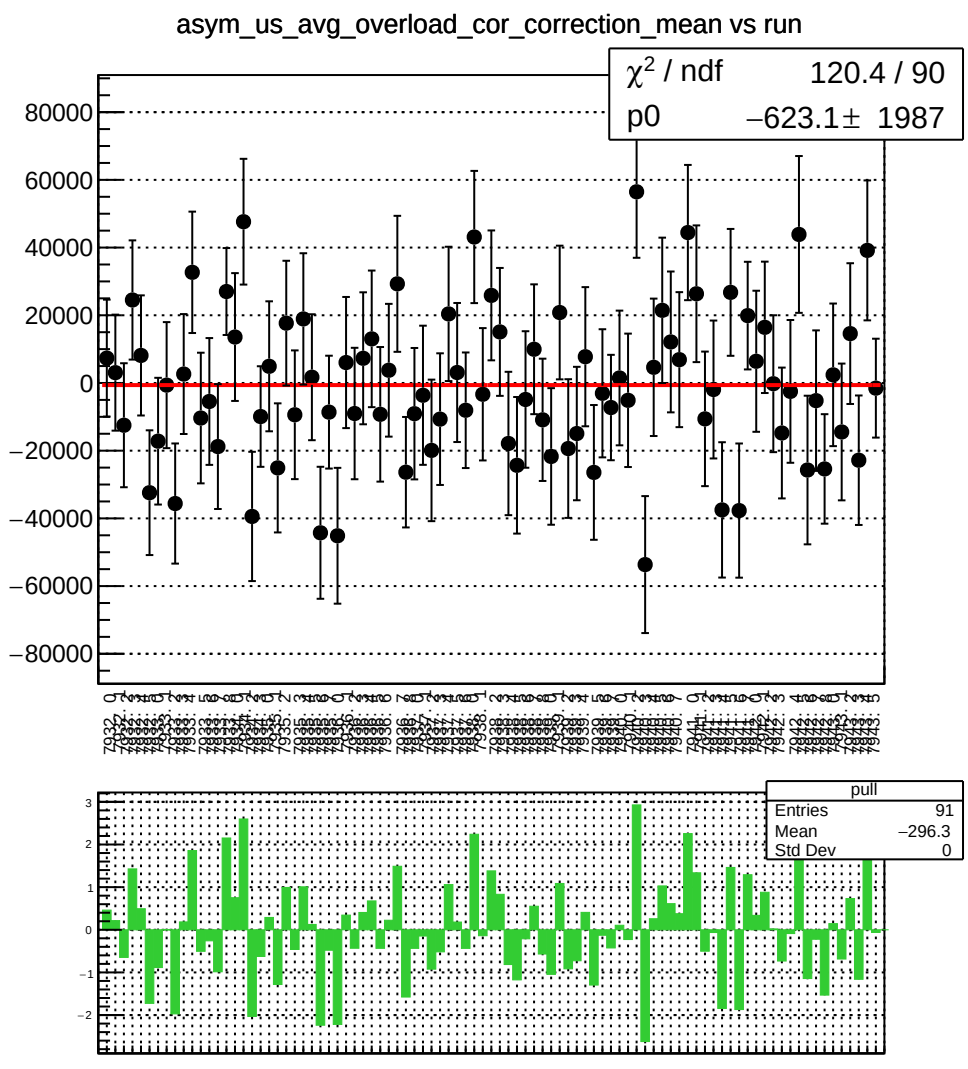
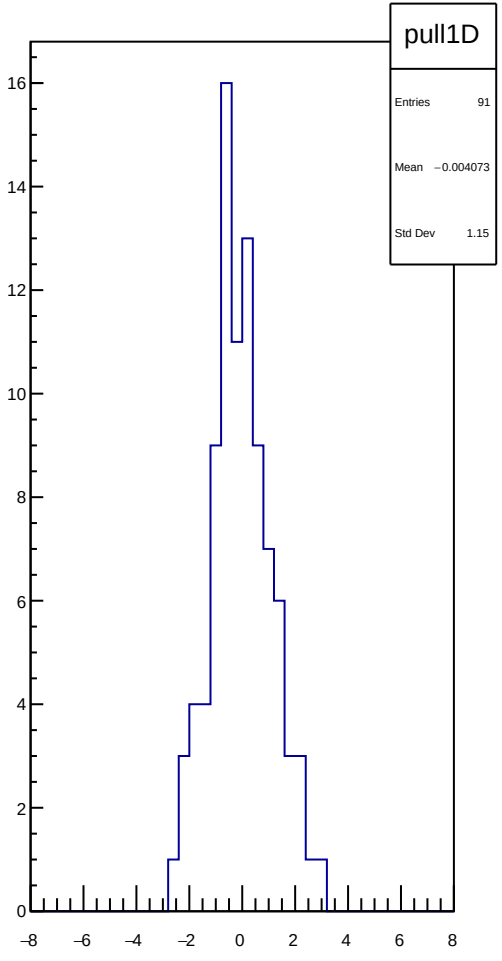
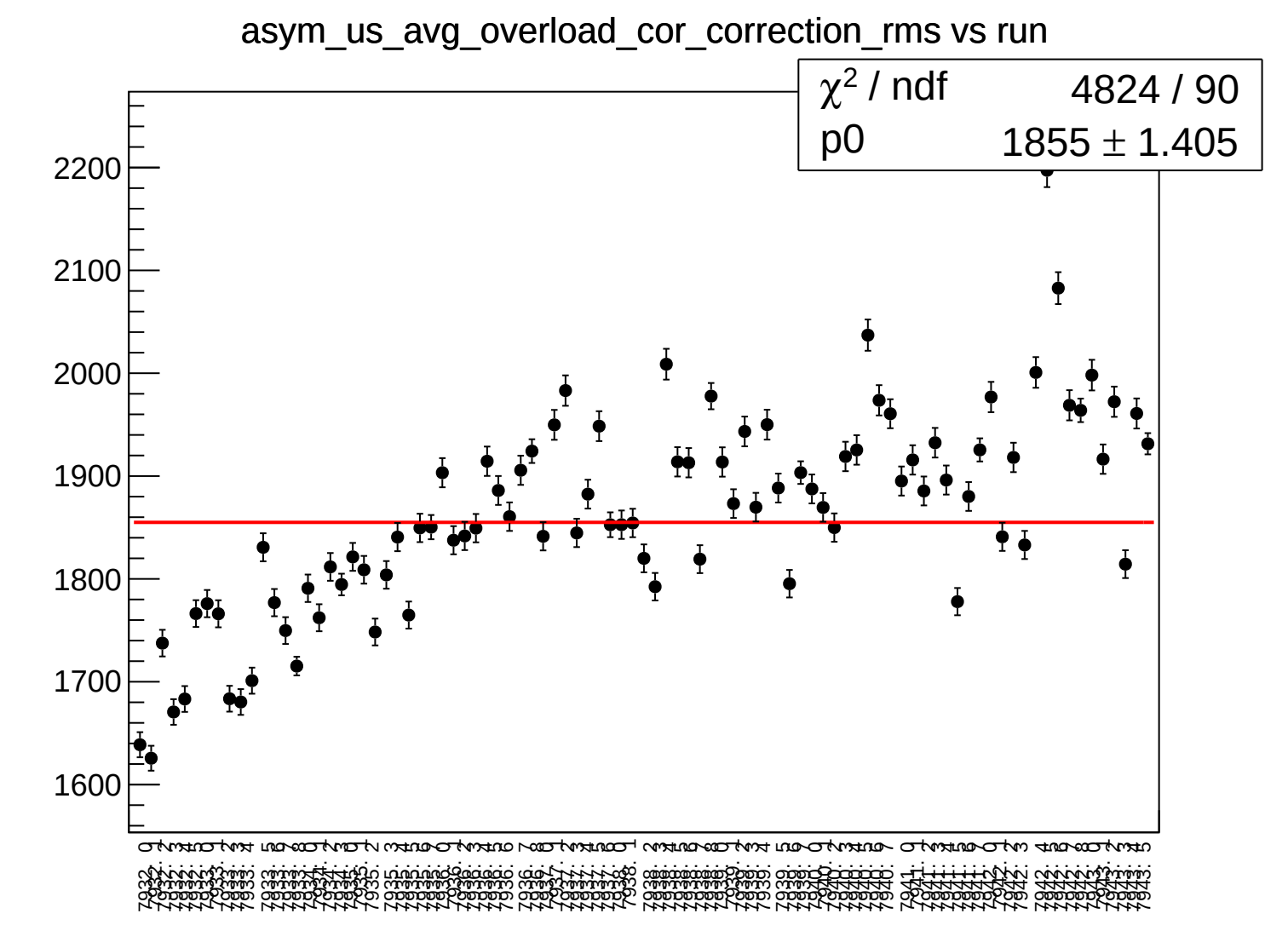
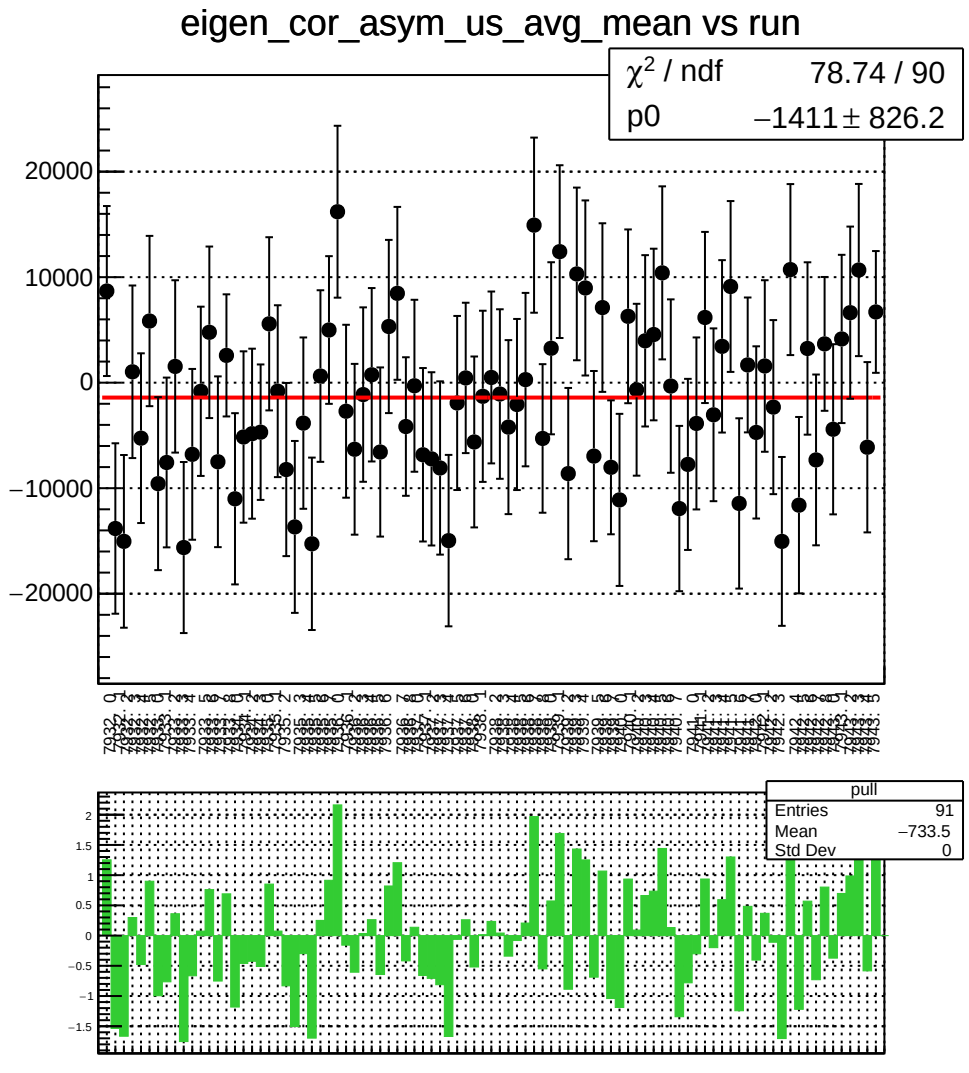
0
2
4
6
8

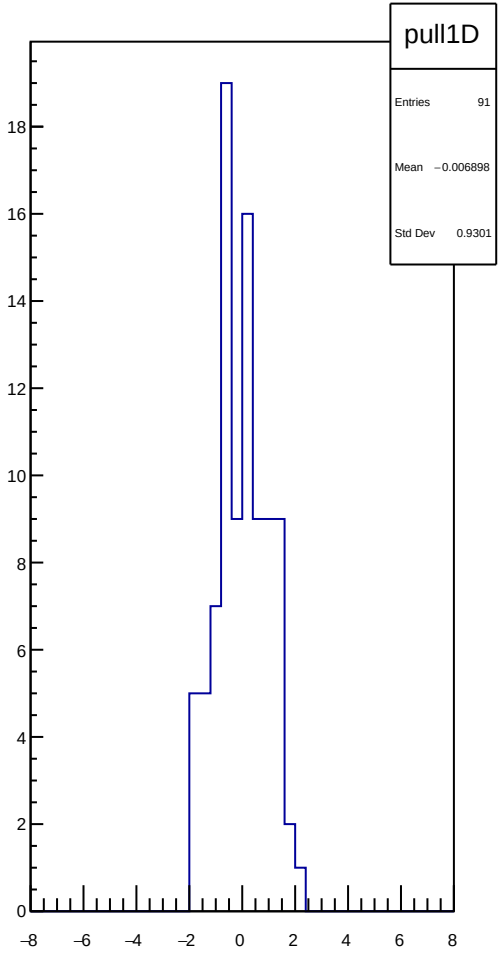

overload_cor_asym_us_avg_rms vs run
χ² / ndf 123.4 / 90
p0 771.8 ± 0.5837
800
790
780
770
760
750

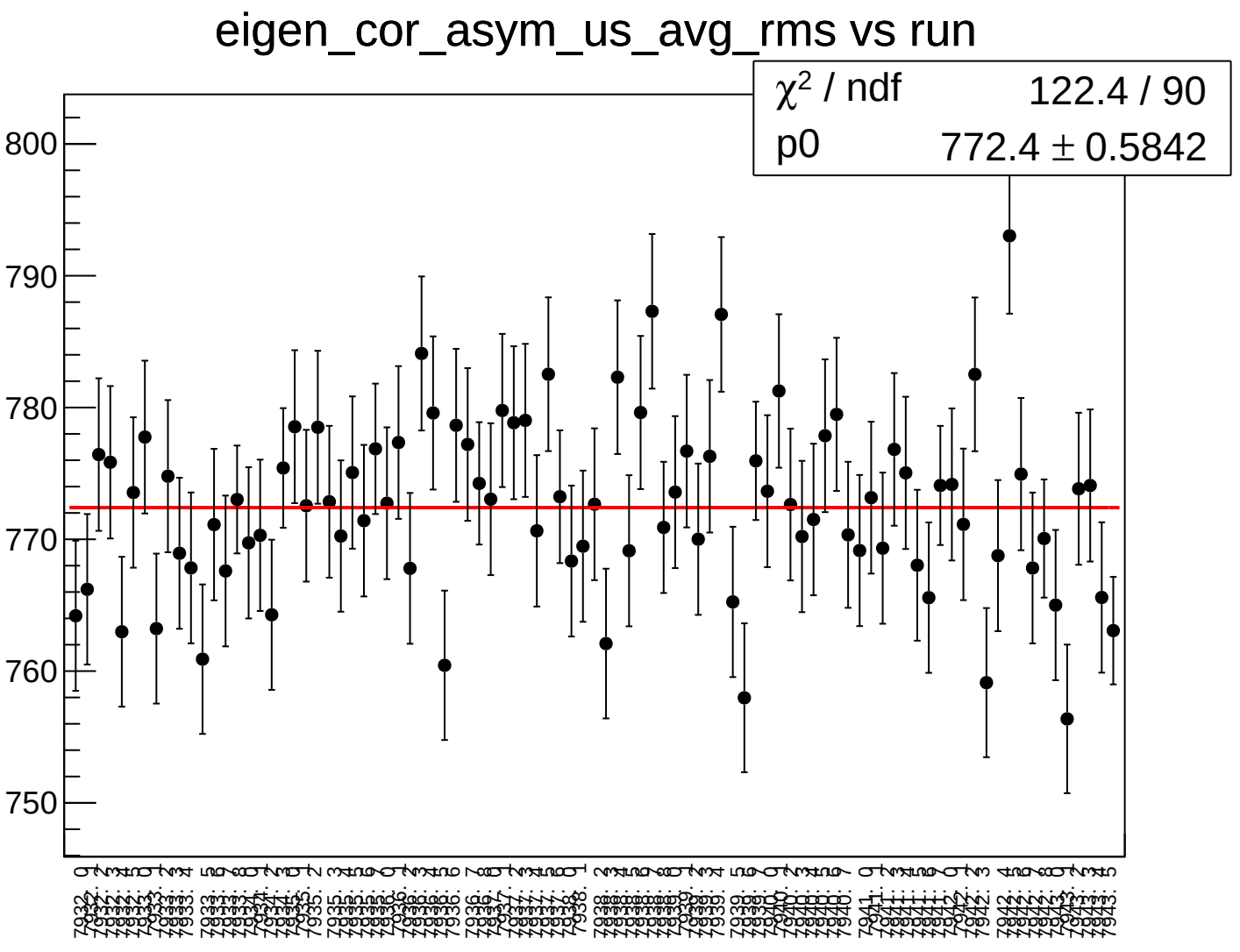

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 120.4 / 90
p0 −623.1± 1987
pull
Entries 91
Mean −296.3
Std Dev 0

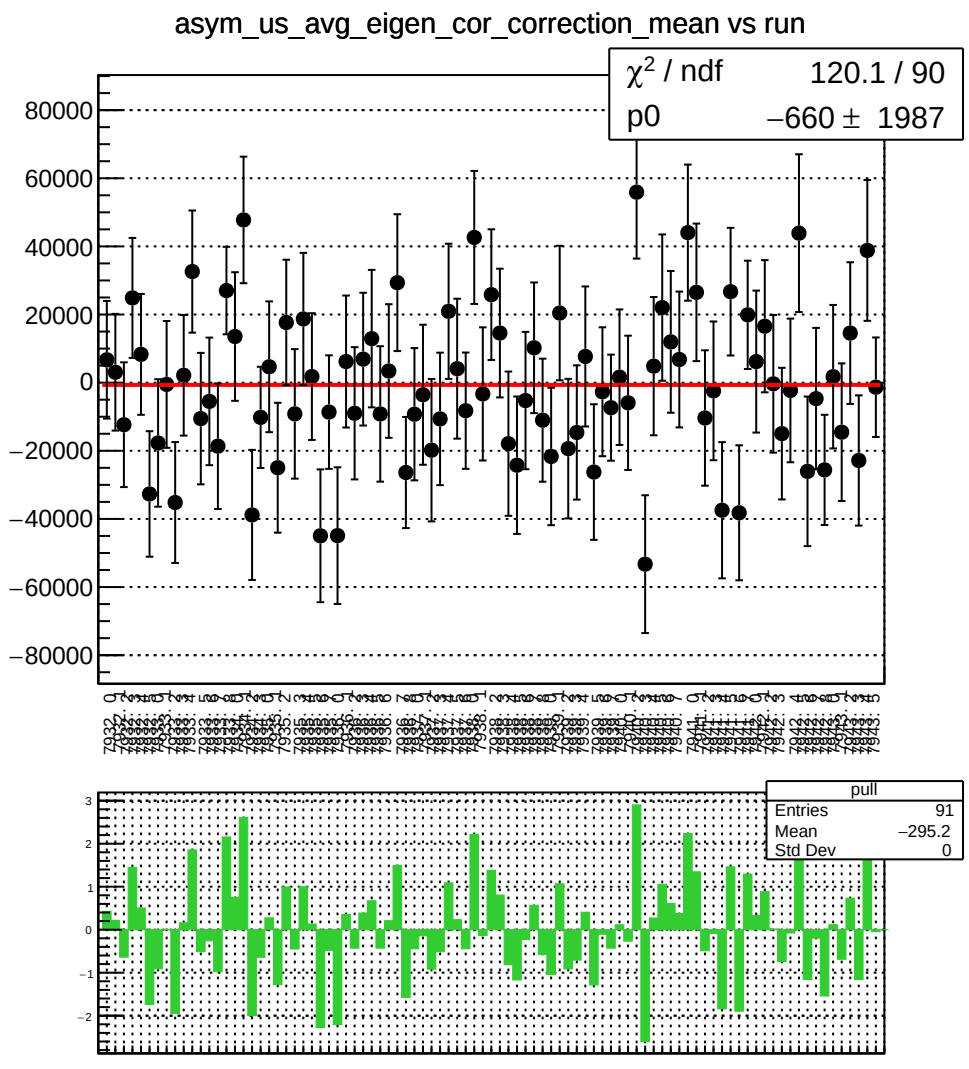

pull1D
Entries 91
Mean −0.004073
Std Dev 1.15

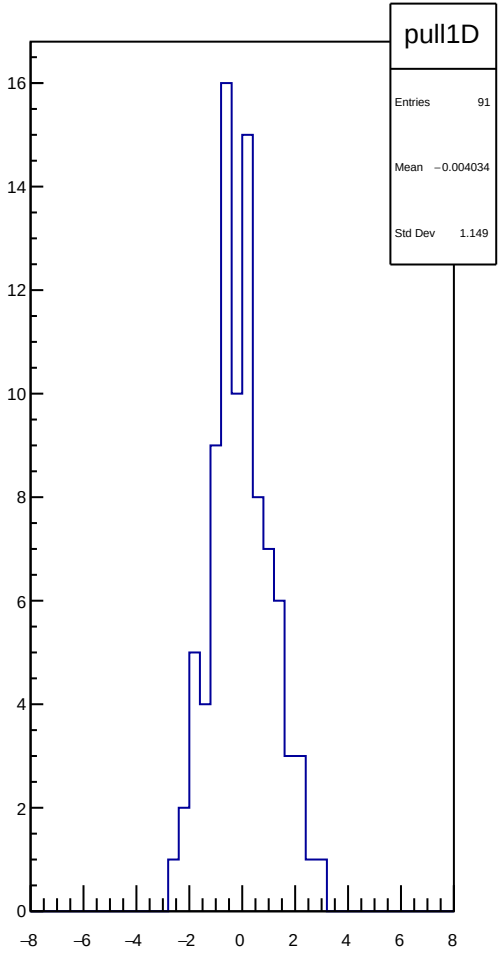

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 4824 / 90
p0 1855 ± 1.405
2200
2100
2000
1900
1800
1700
1600

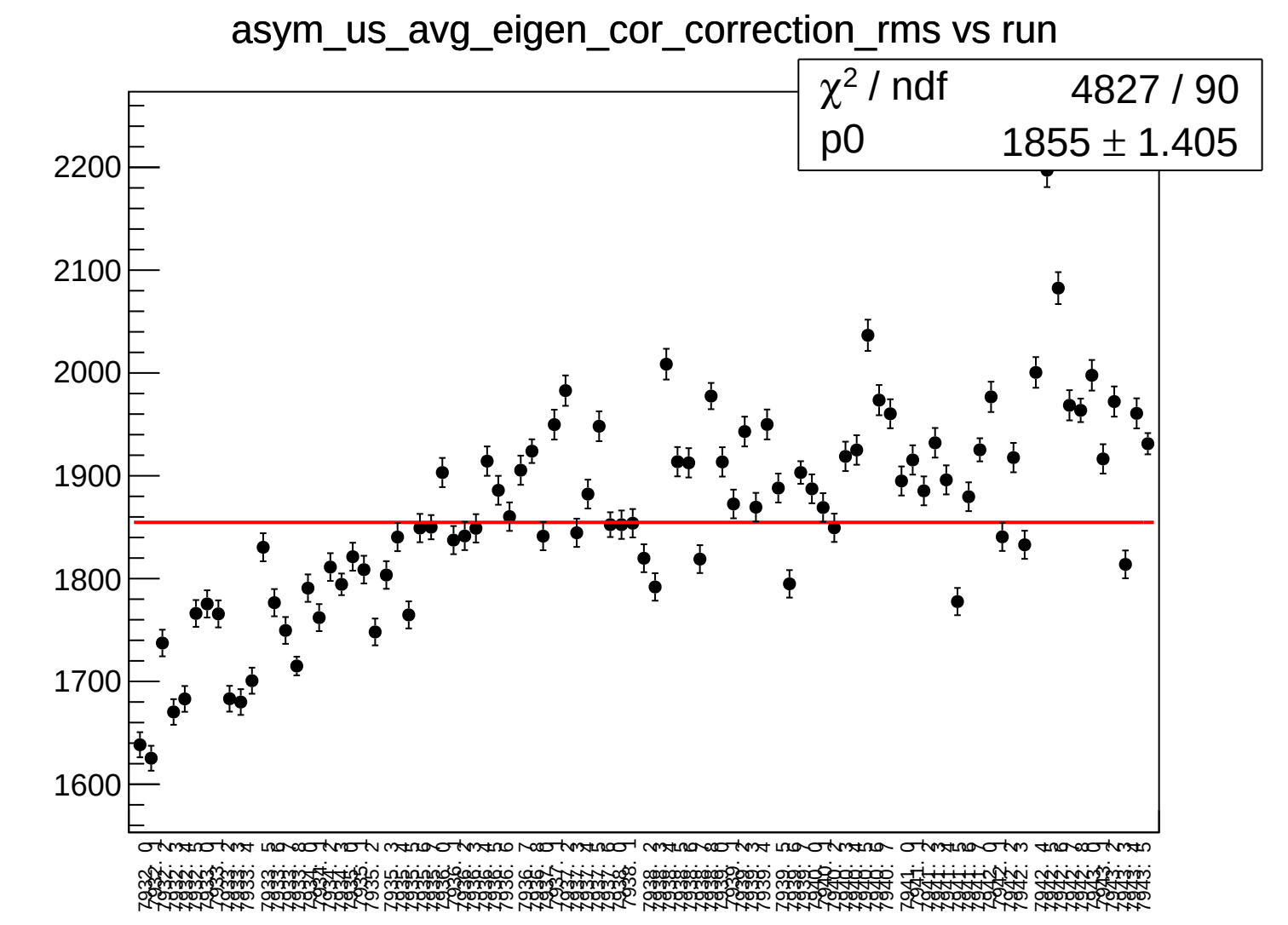

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 78.74 / 90
p0 −1411 ± 826.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −733.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

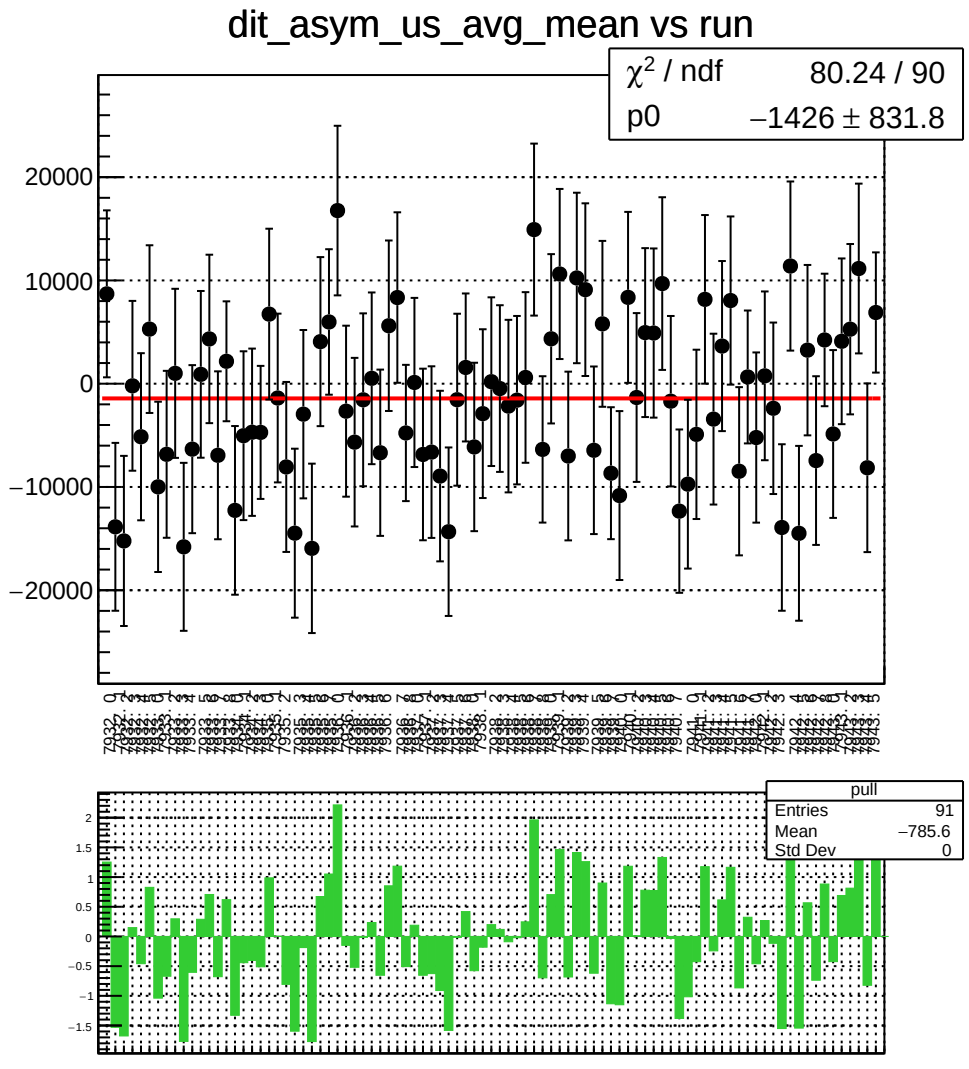

pull1D
Entries 91
Mean −0.006898
Std Dev 0.9301
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

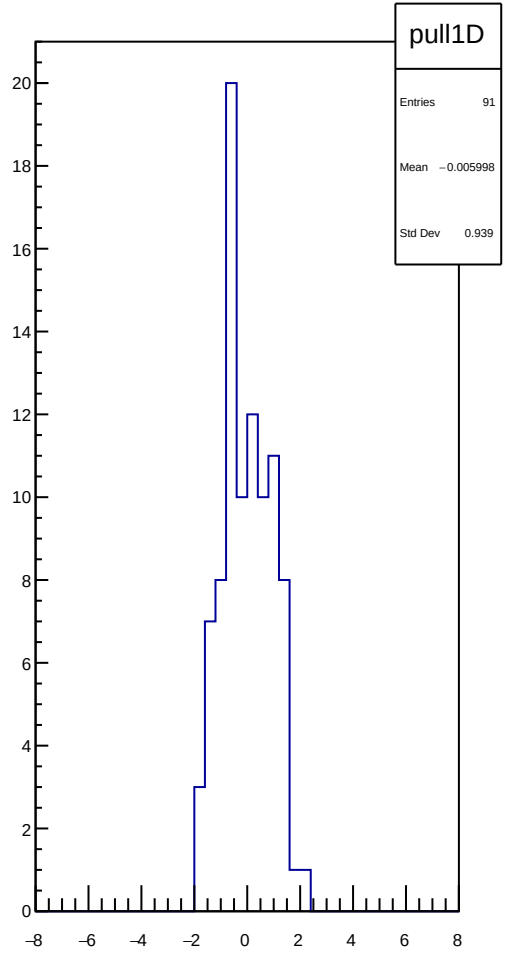

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 122.4 / 90
p0 772.4 ± 0.5842
800
790
780
770
760
750

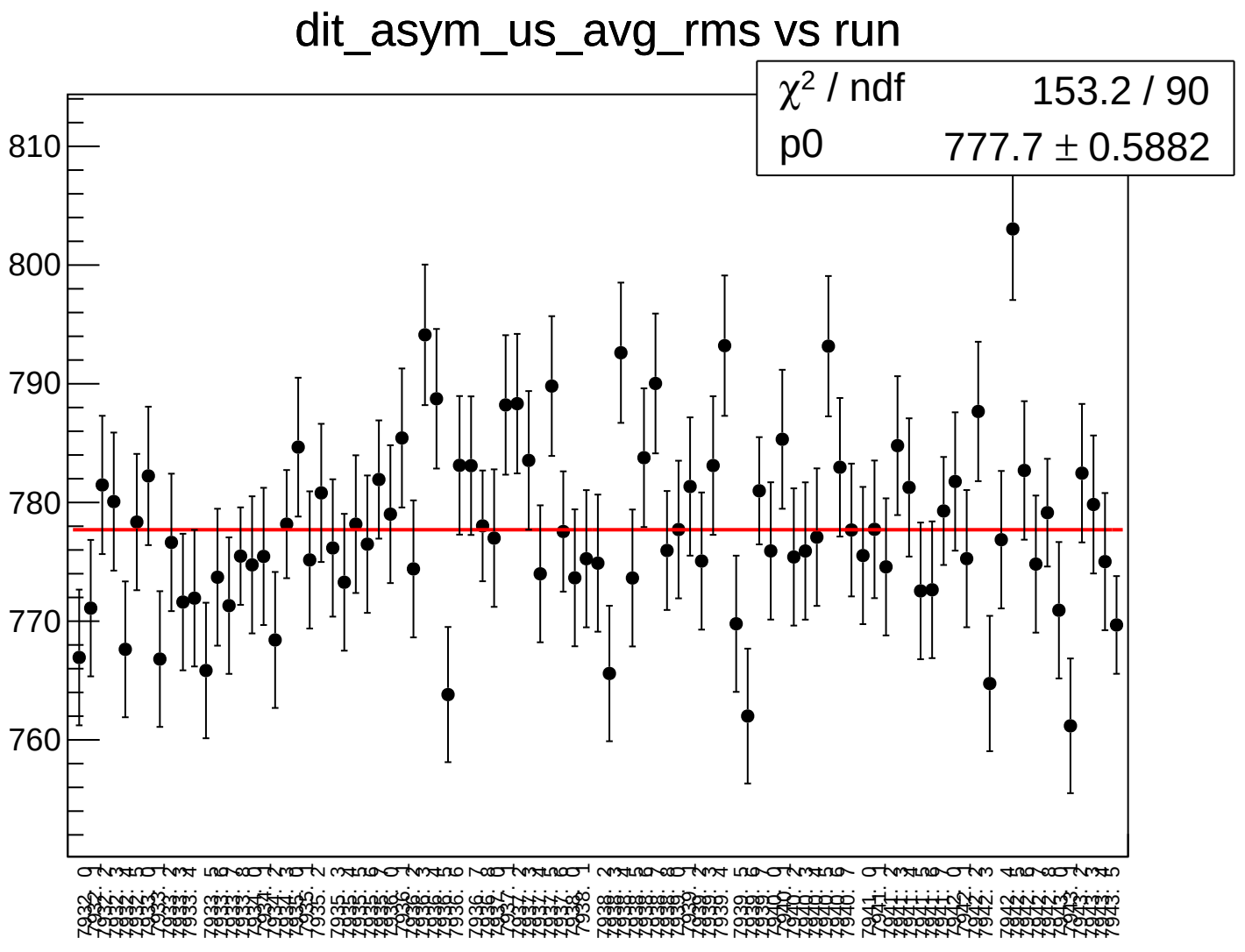

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.1 / 90
p0 −660 ± 1987
pull
Entries 91
Mean −295.2
Std Dev 0

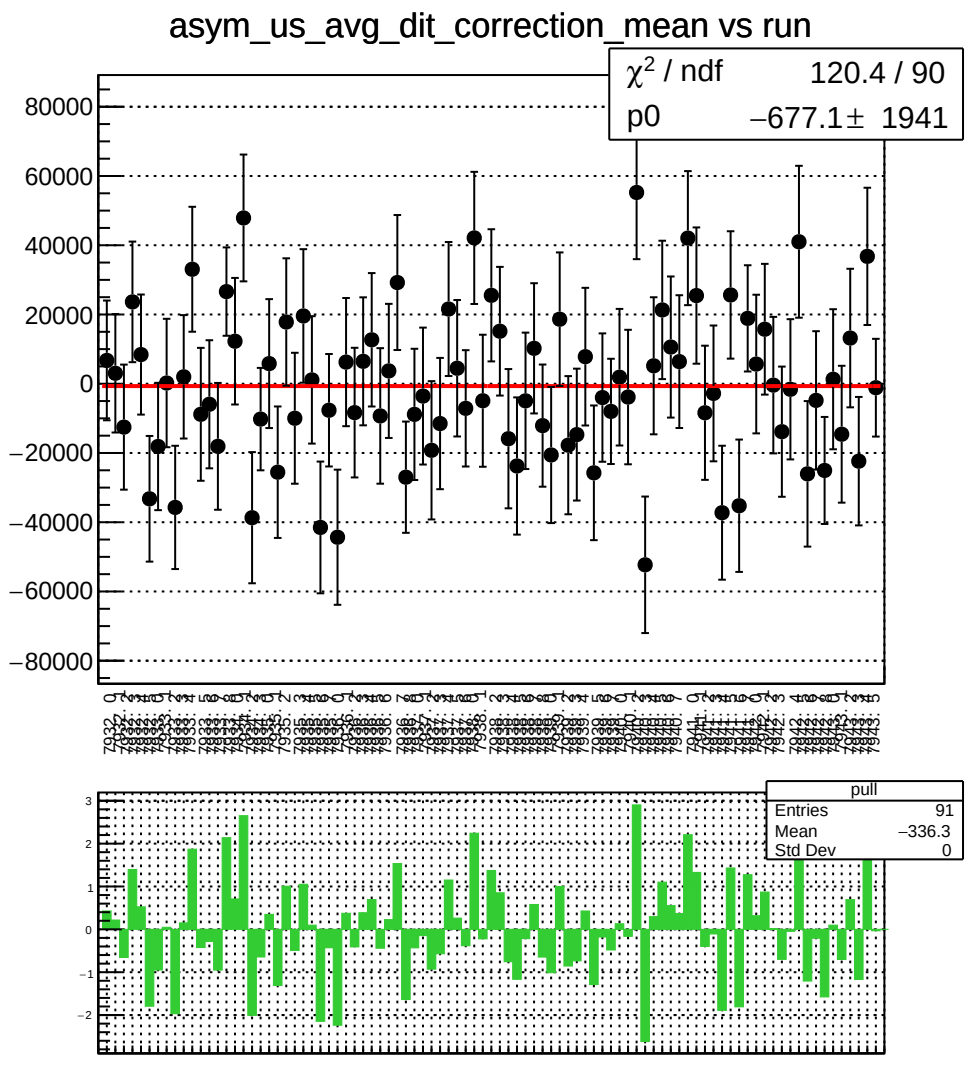

pull1D
Entries 91
Mean −0.004034
Std Dev 1.149

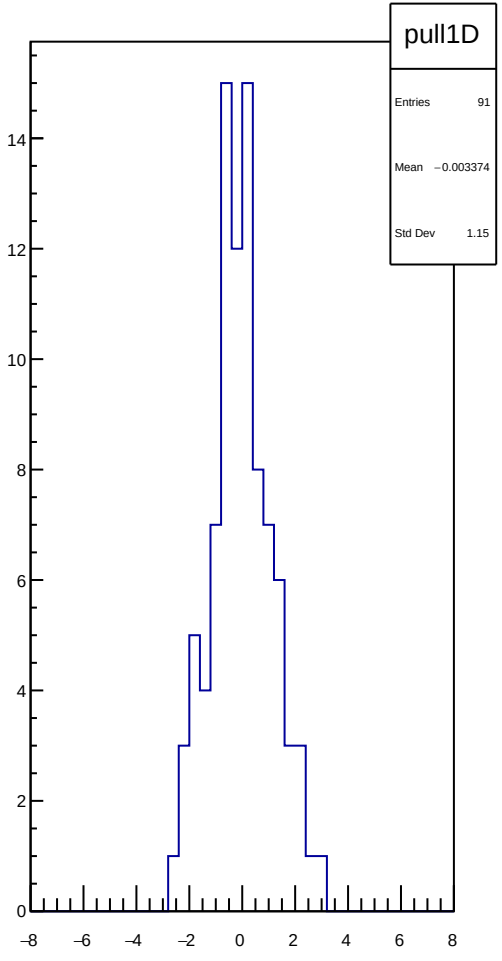

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 4827 / 90
p0 1855 ± 1.405
2200
2100
2000
1900
1800
1700
1600

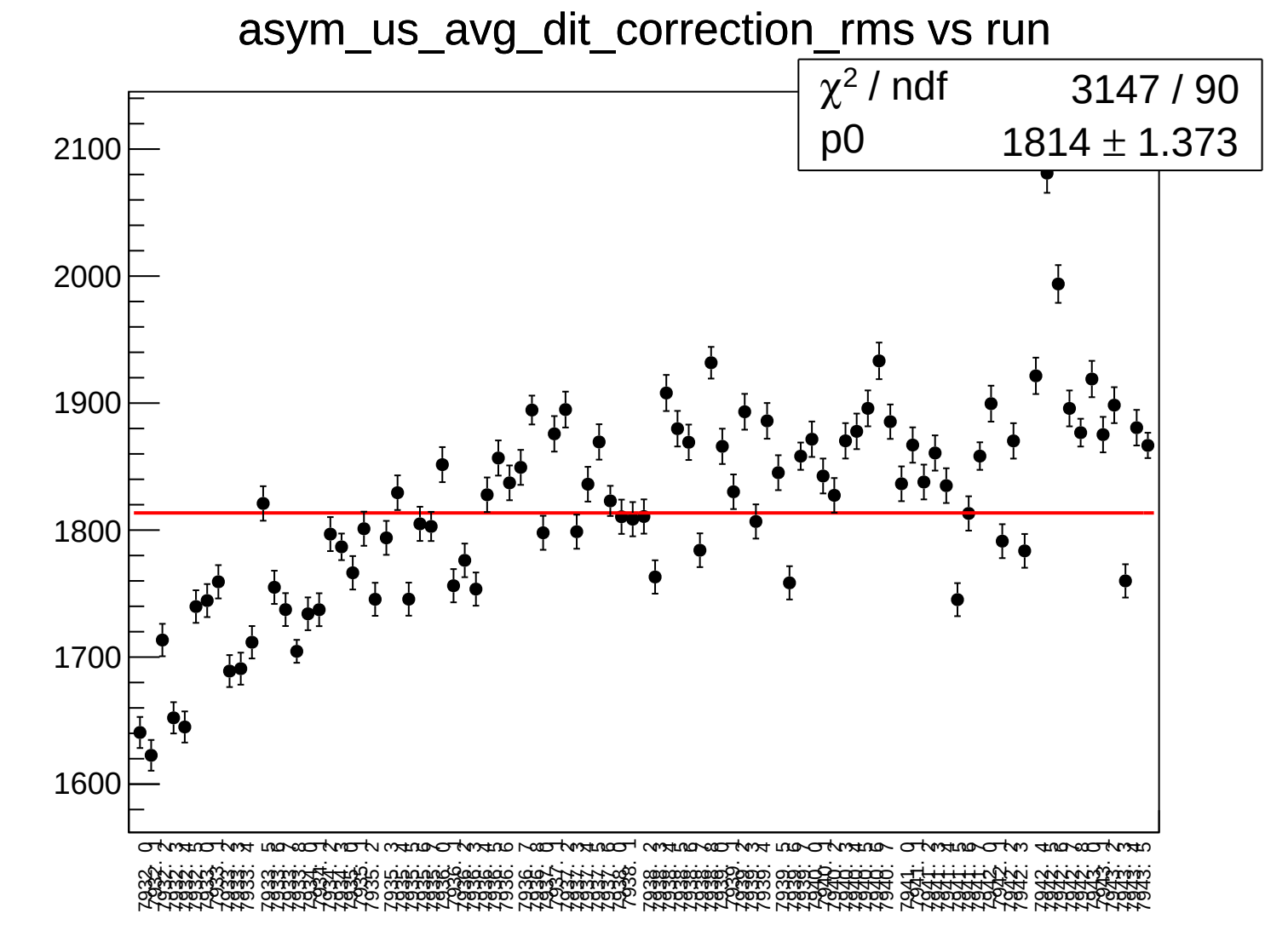

dit_asym_us_avg_mean vs run
χ² / ndf 80.24 / 90
p0 −1426 ± 831.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −785.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

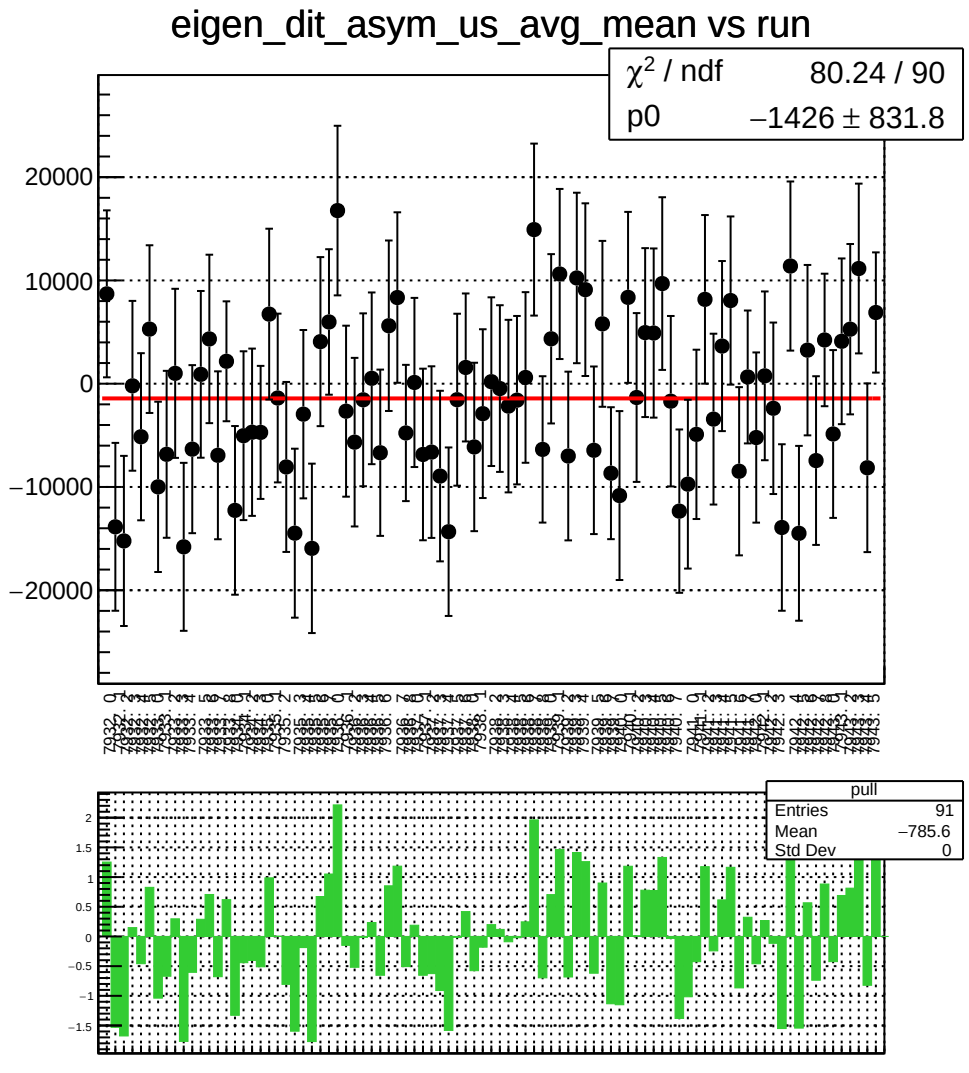

pull1D
Entries 91
Mean −0.005998
Std Dev 0.939
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

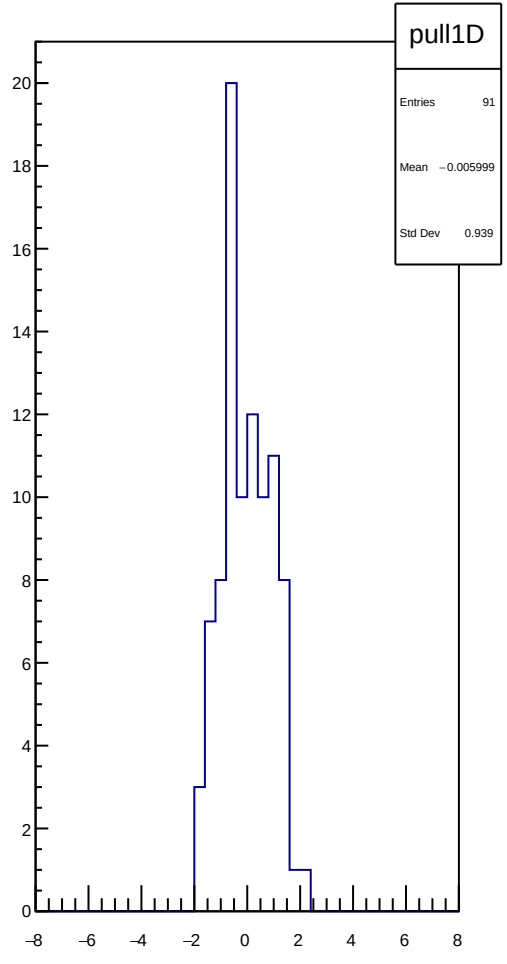

dit_asym_us_avg_rms vs run
χ² / ndf 153.2 / 90
p0 777.7 ± 0.5882
810
800
790
780
770
760

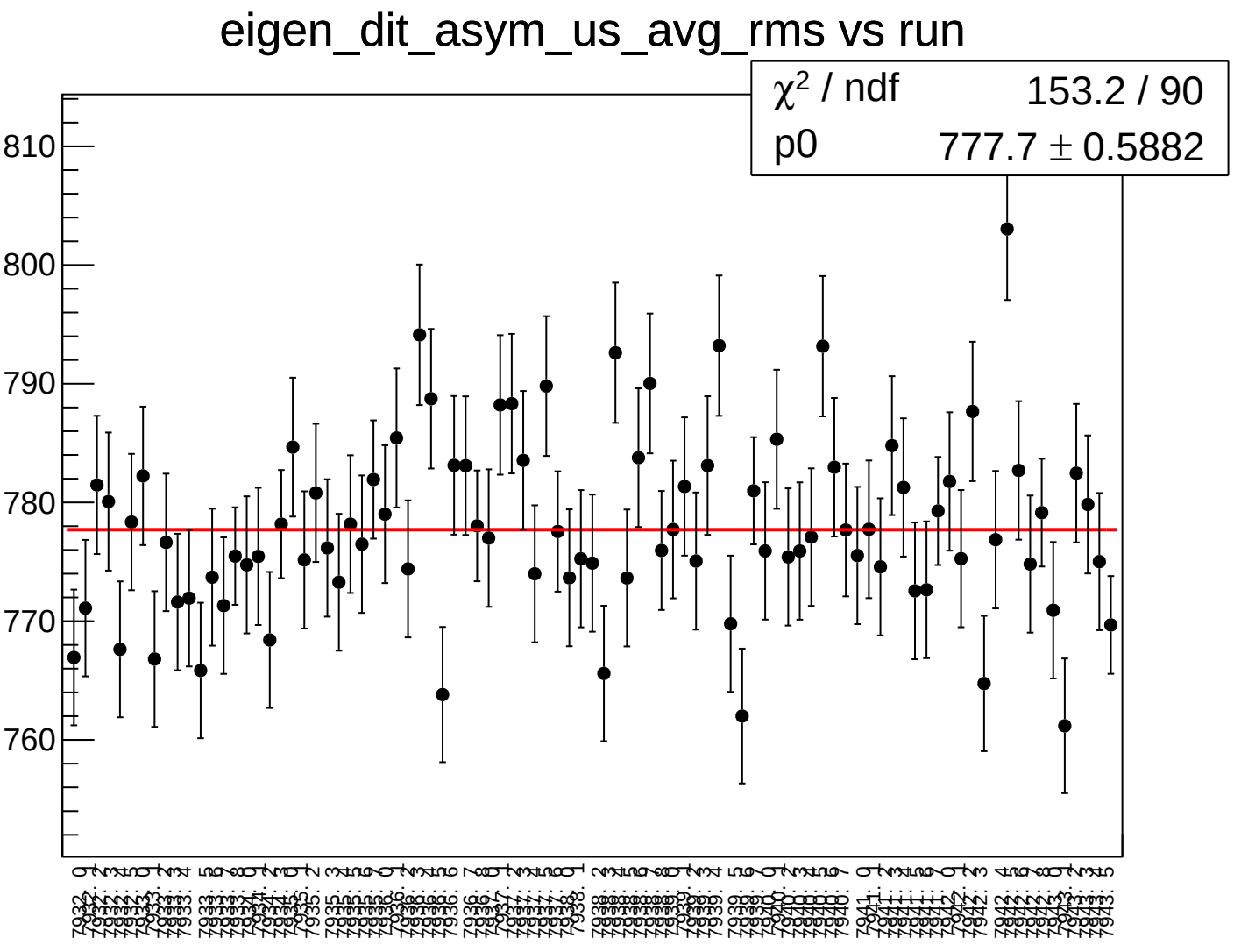

asym_us_avg_dit_correction_mean vs run
χ² / ndf 120.4 / 90
p0 −677.1± 1941
pull
Entries 91
Mean −336.3
Std Dev 0

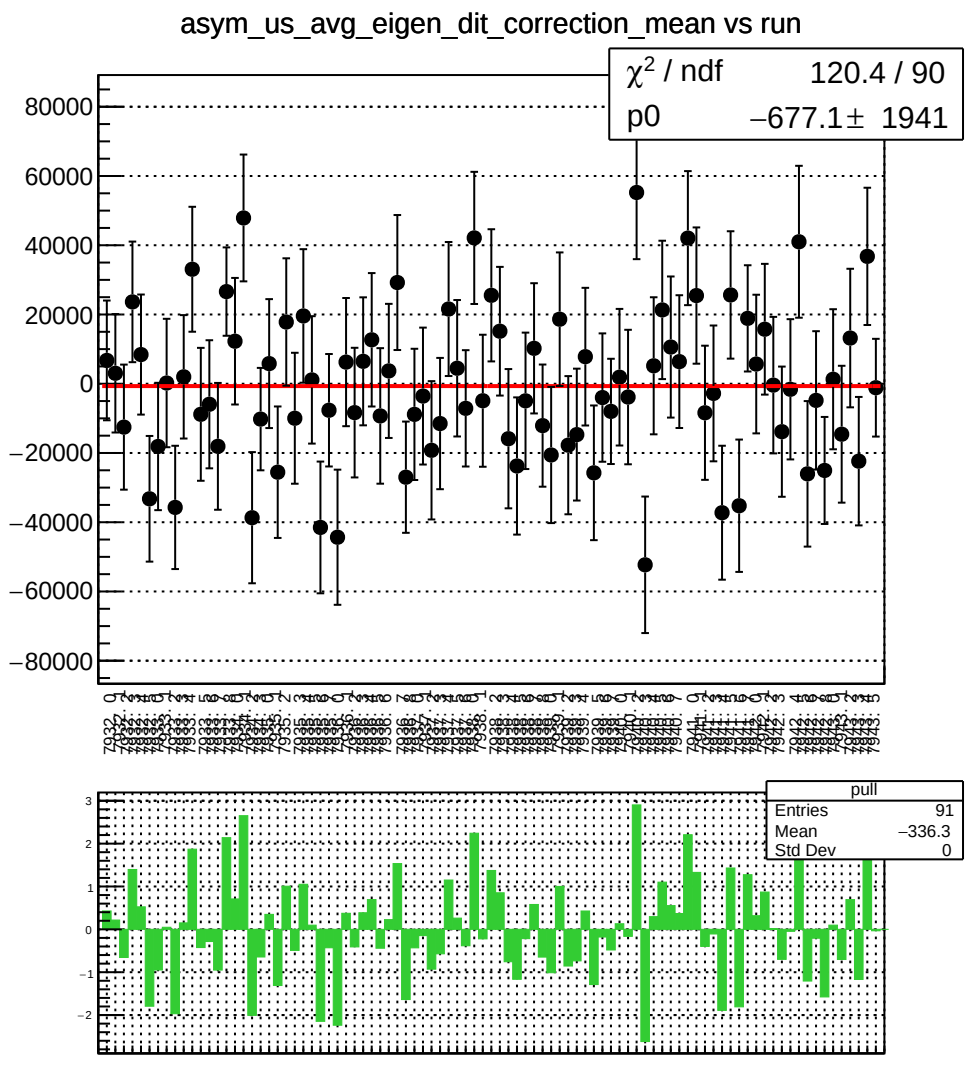

pull1D
Entries 91
Mean −0.003374
Std Dev 1.15

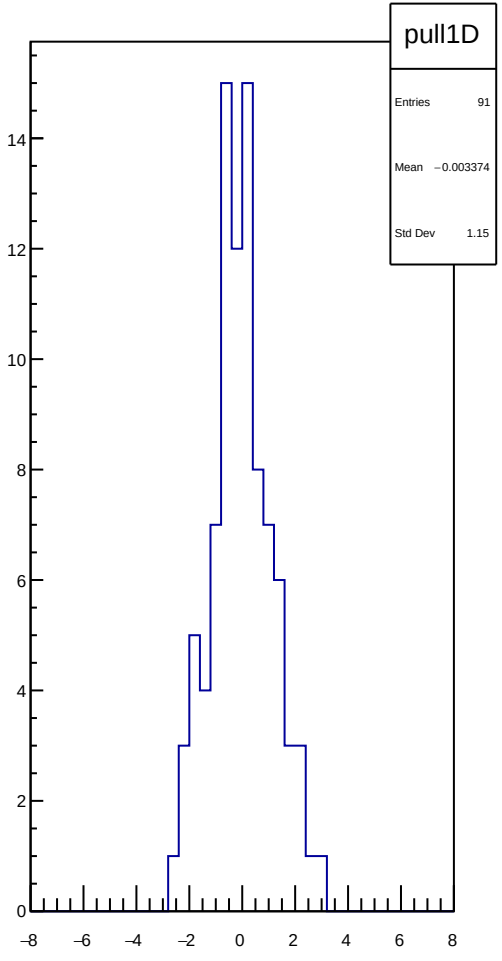

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3147 / 90
p0 1814 ± 1.373
2100
2000
1900
1800
1700
1600

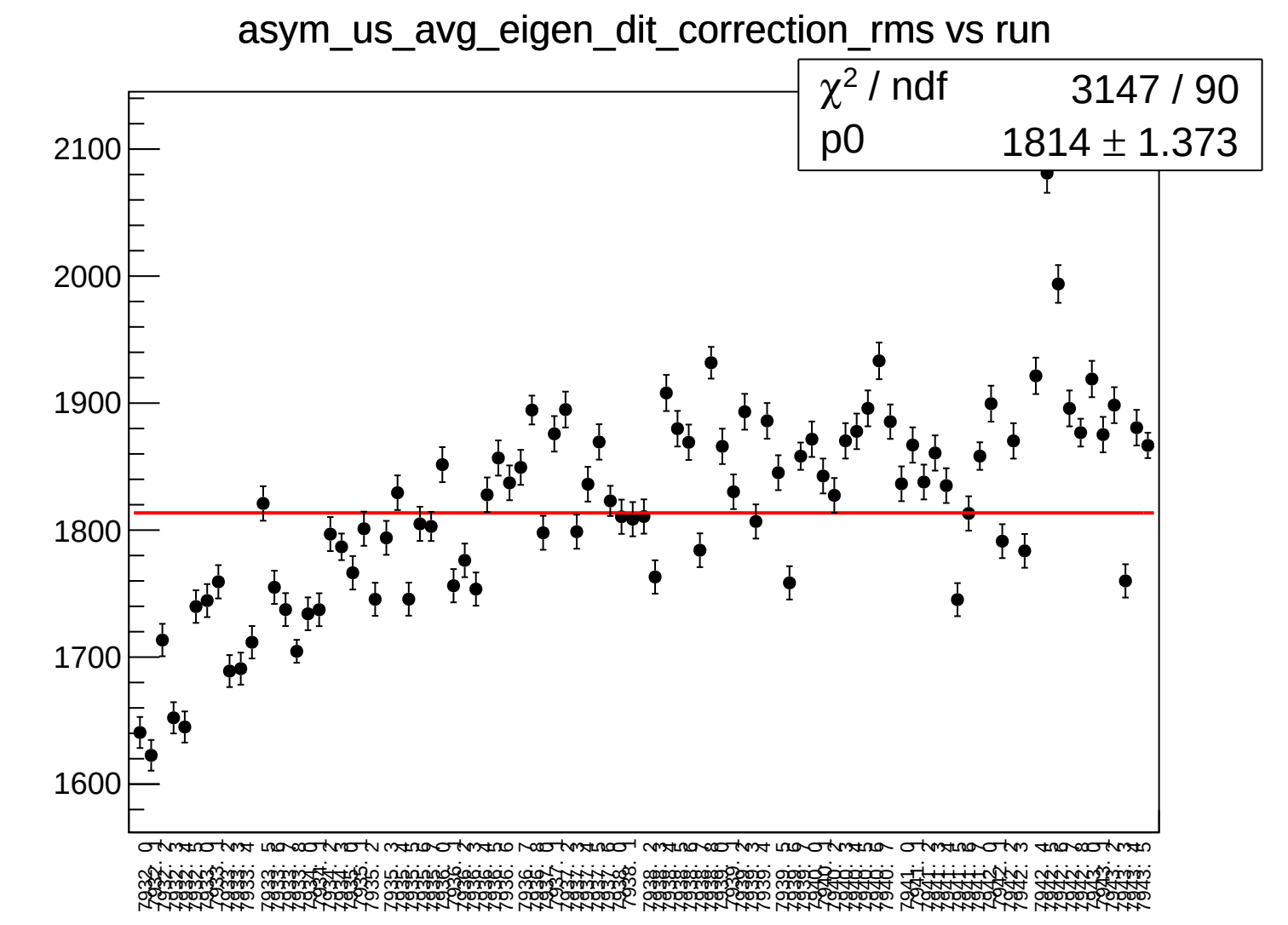

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 80.24 / 90
p0 −1426 ± 831.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −785.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

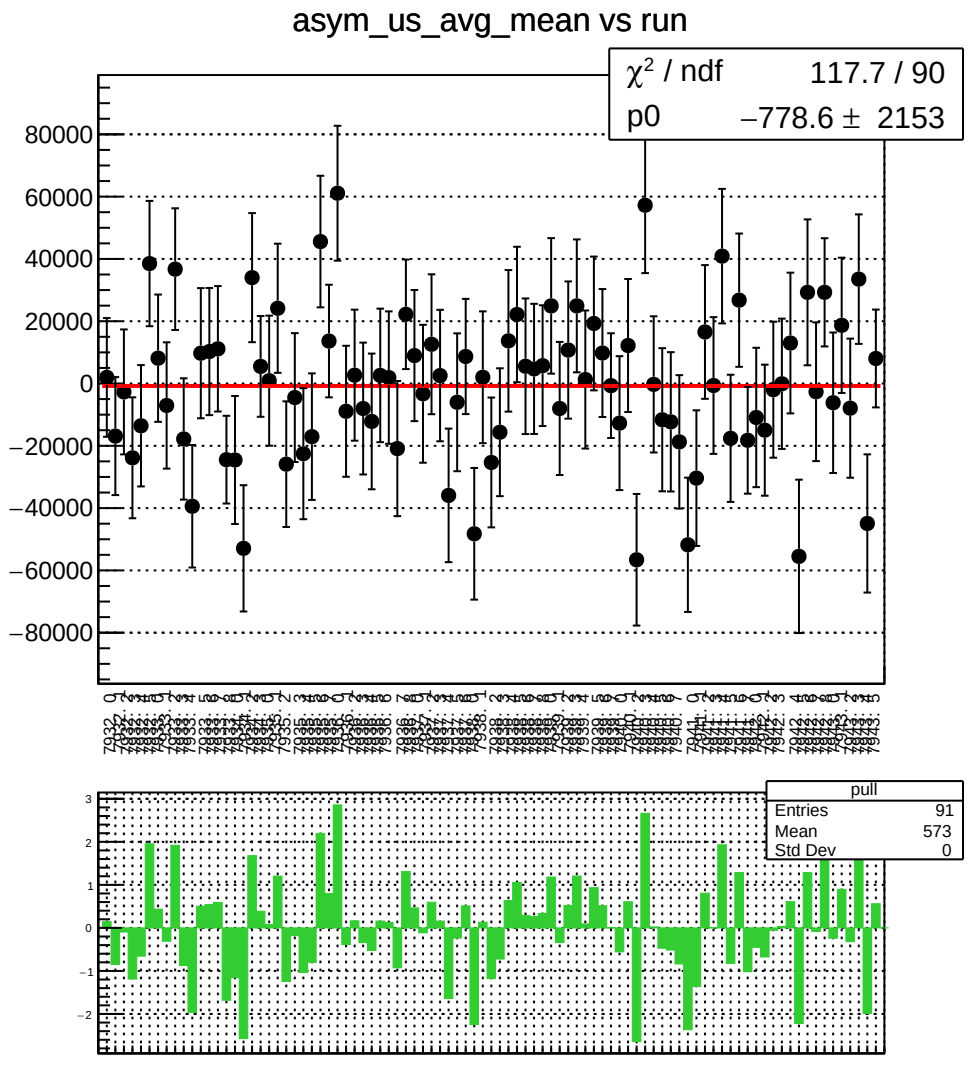

pull1D
Entries 91
Mean −0.005999
Std Dev 0.939
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

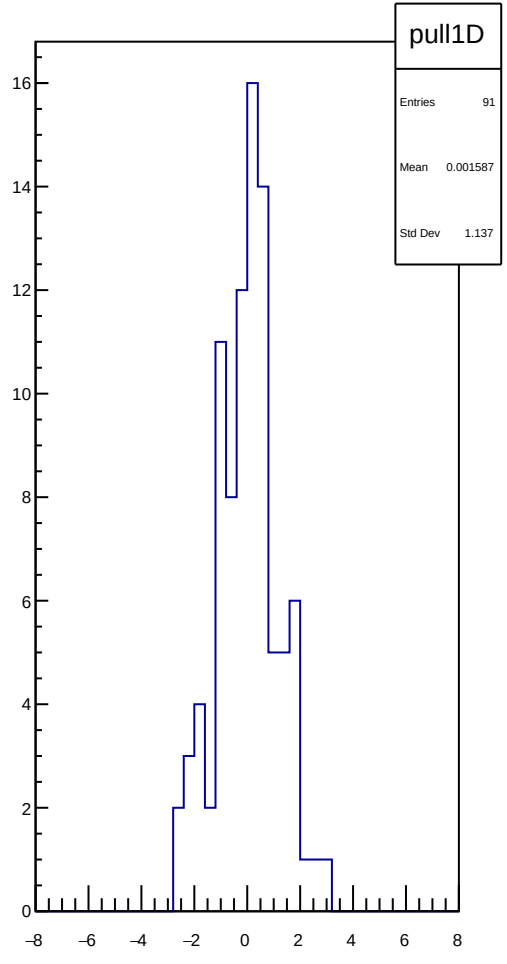

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 153.2 / 90
p0 777.7 ± 0.5882
810
800
790
780
770
760

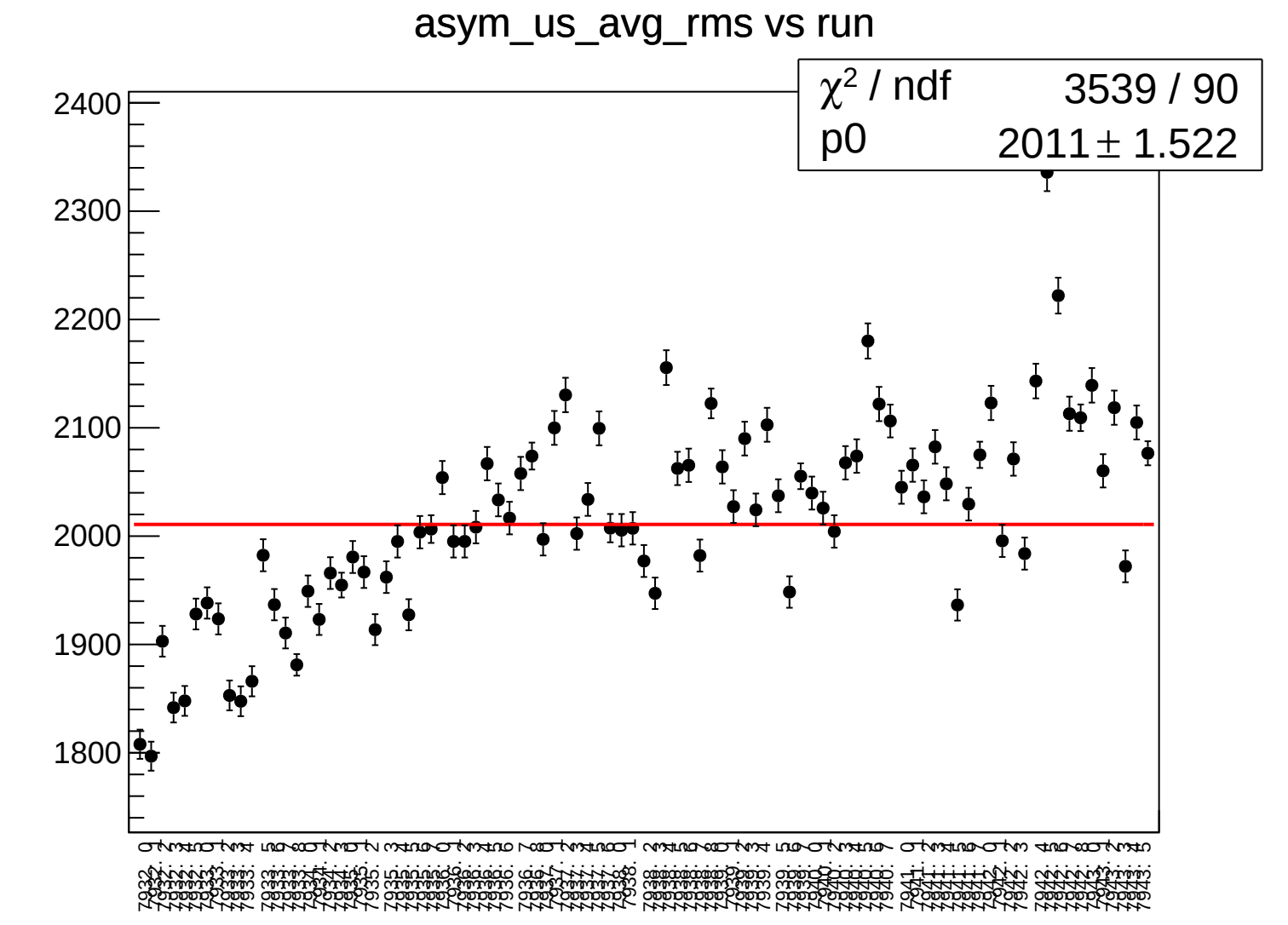

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 120.4 / 90
p0 −677.1± 1941
pull
Entries 91
Mean −336.3
Std Dev 0

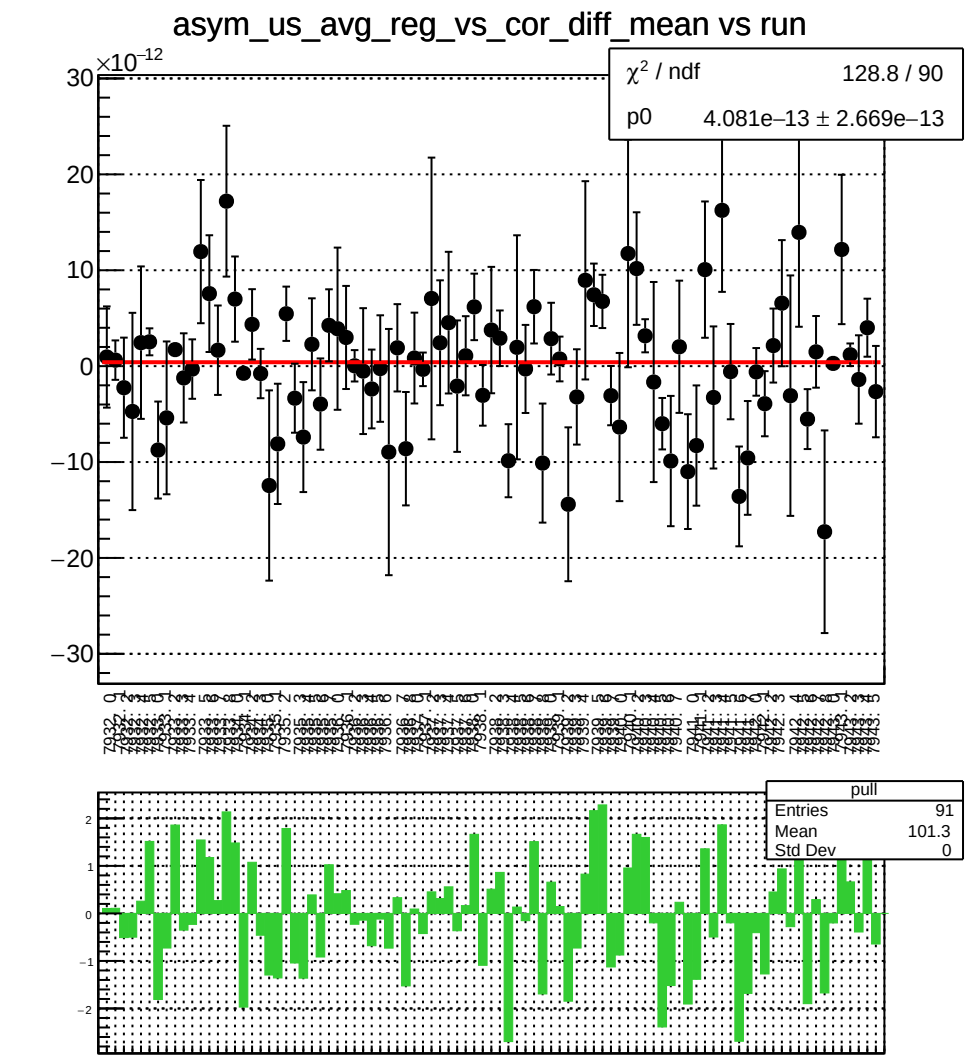

pull1D
Entries 91
Mean −0.003374
Std Dev 1.15

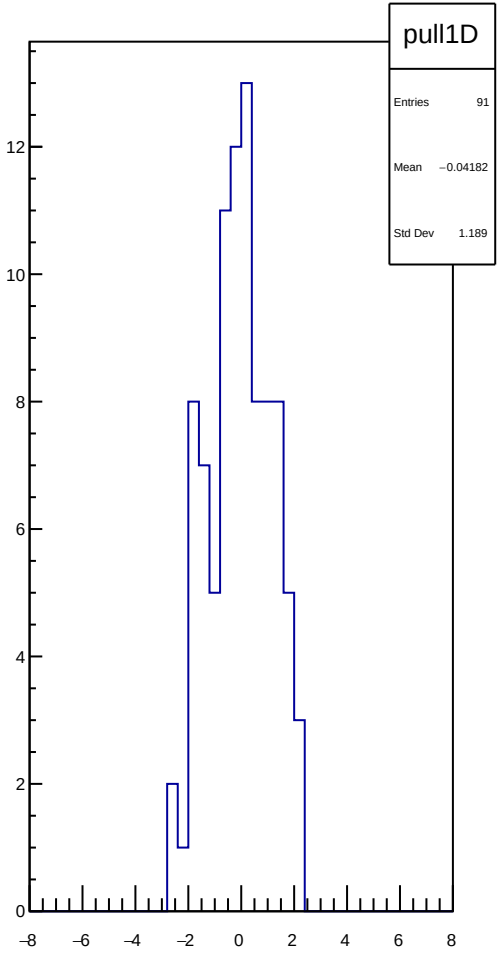

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3147 / 90
p0 1814 ± 1.373
2100
2000
1900
1800
1700
1600

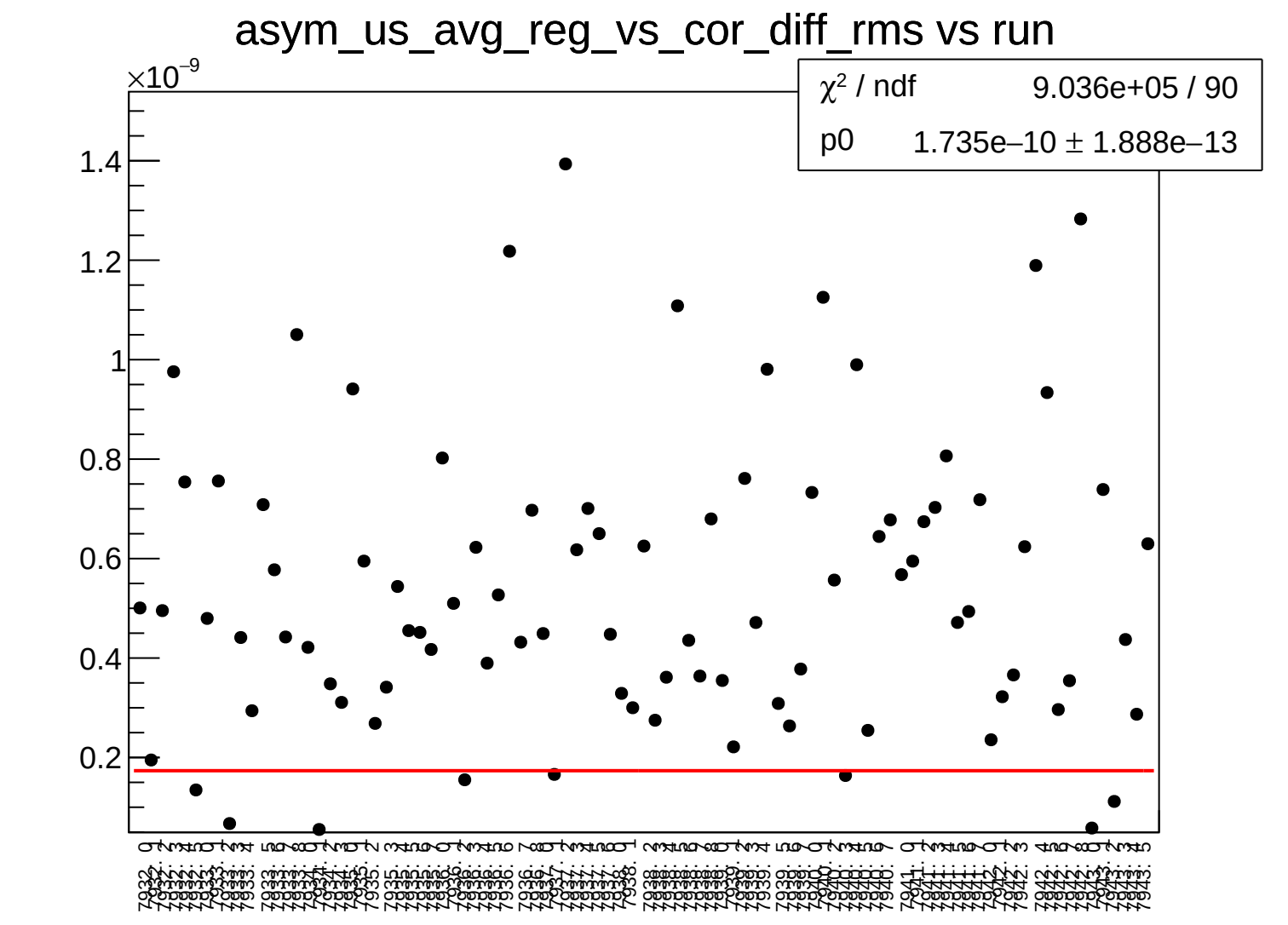

asym_us_avg_mean vs run
χ² / ndf 117.7 / 90
p0 −778.6 ± 2153
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 573
Std Dev 0
3
2
1
0
−1
−2

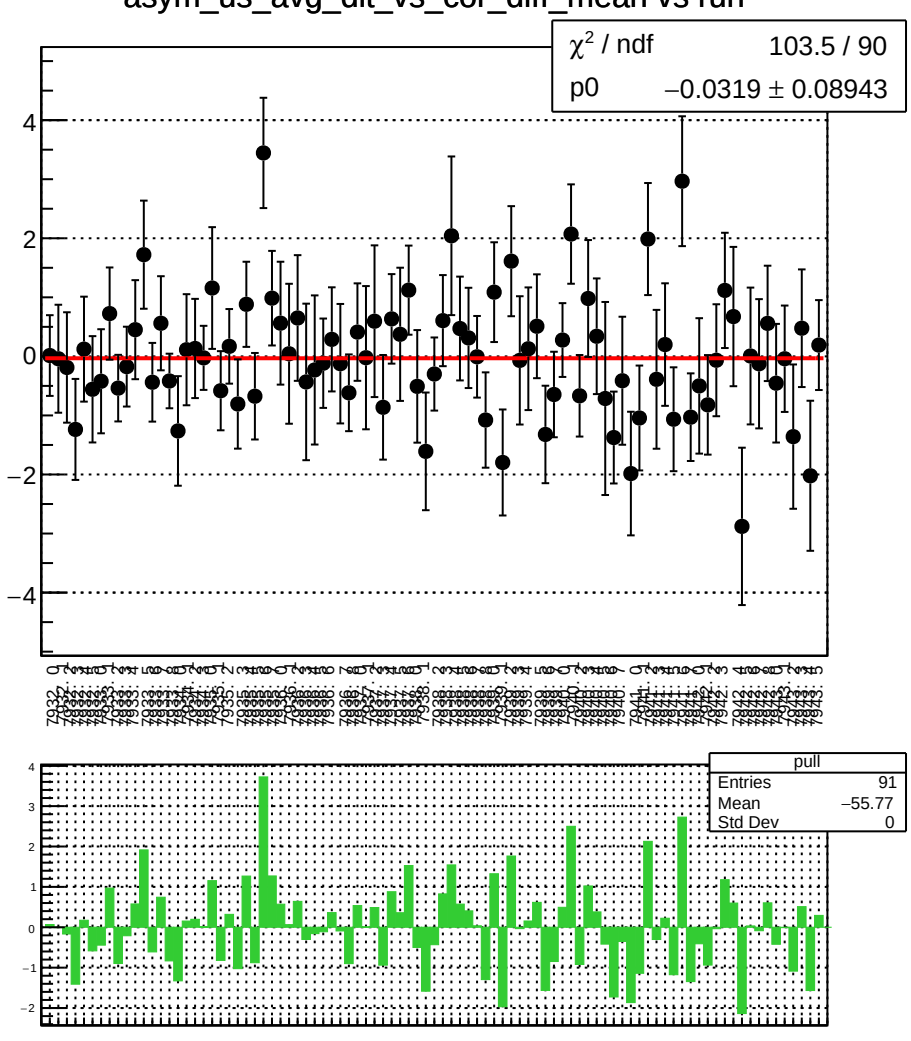

pull1D
Entries 91
Mean 0.001587
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

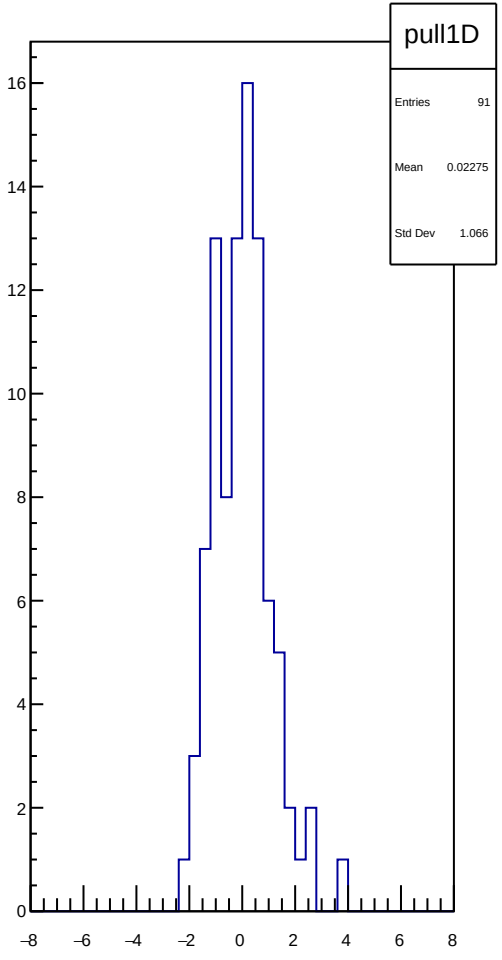

asym_us_avg_rms vs run
χ² / ndf 3539 / 90
p0 2011 ± 1.522
2400
2300
2200
2100
2000
1900
1800

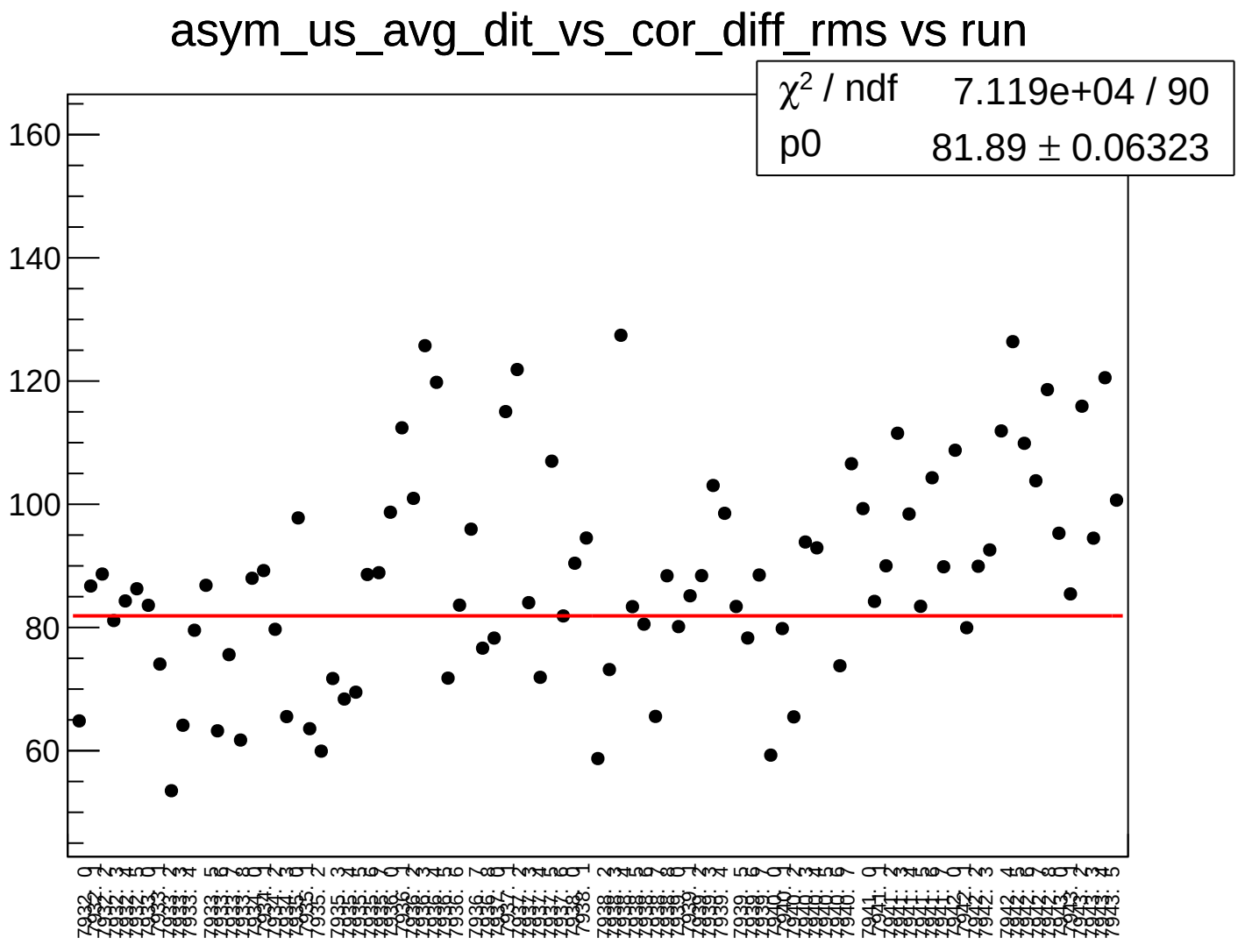

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 128.8 / 90
p0 4.081e−13 ± 2.669e−13
pull
Entries 91
Mean 101.3
Std Dev 0

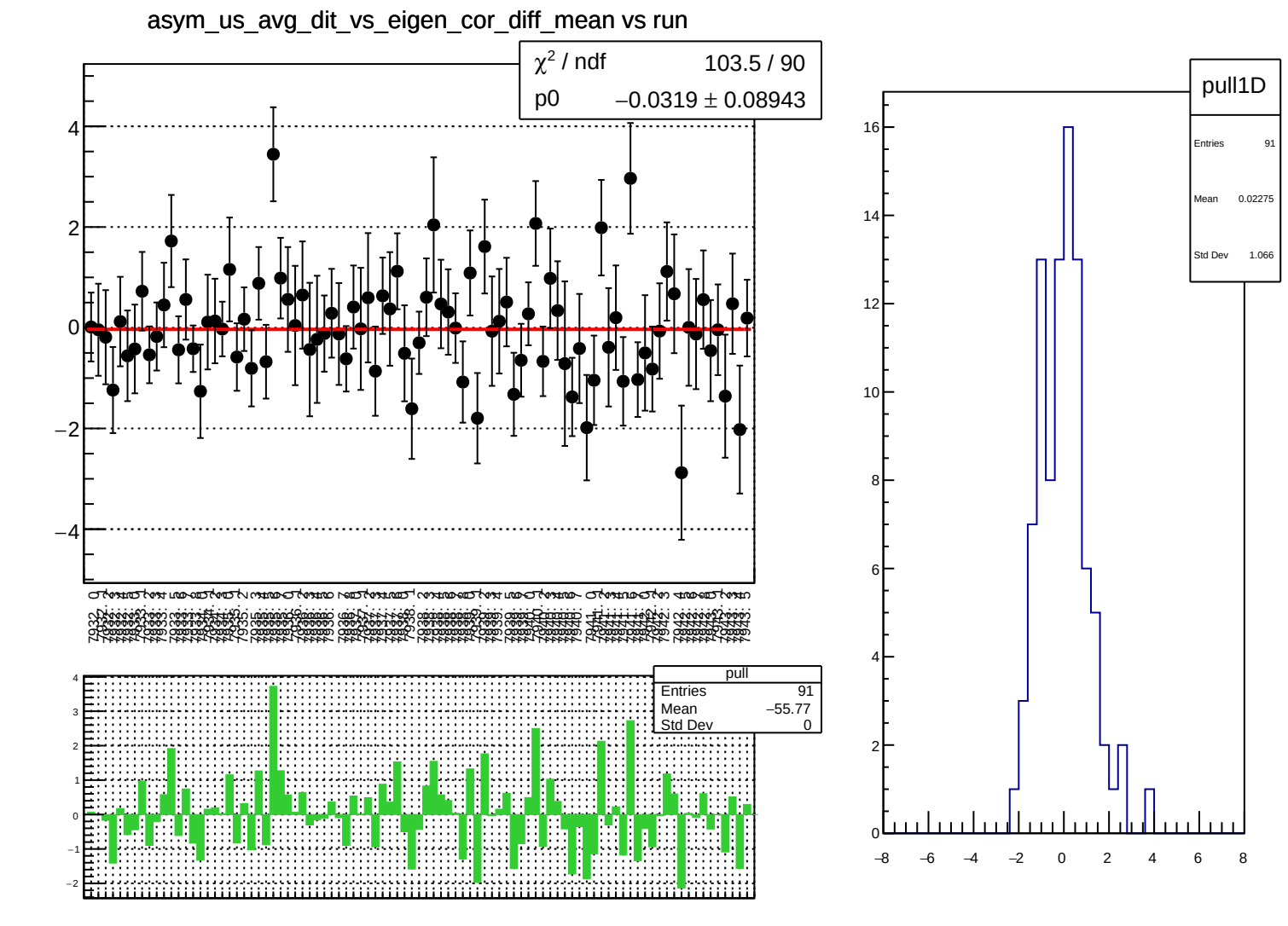

pull1D
Entries 91
Mean −0.04182
Std Dev 1.189

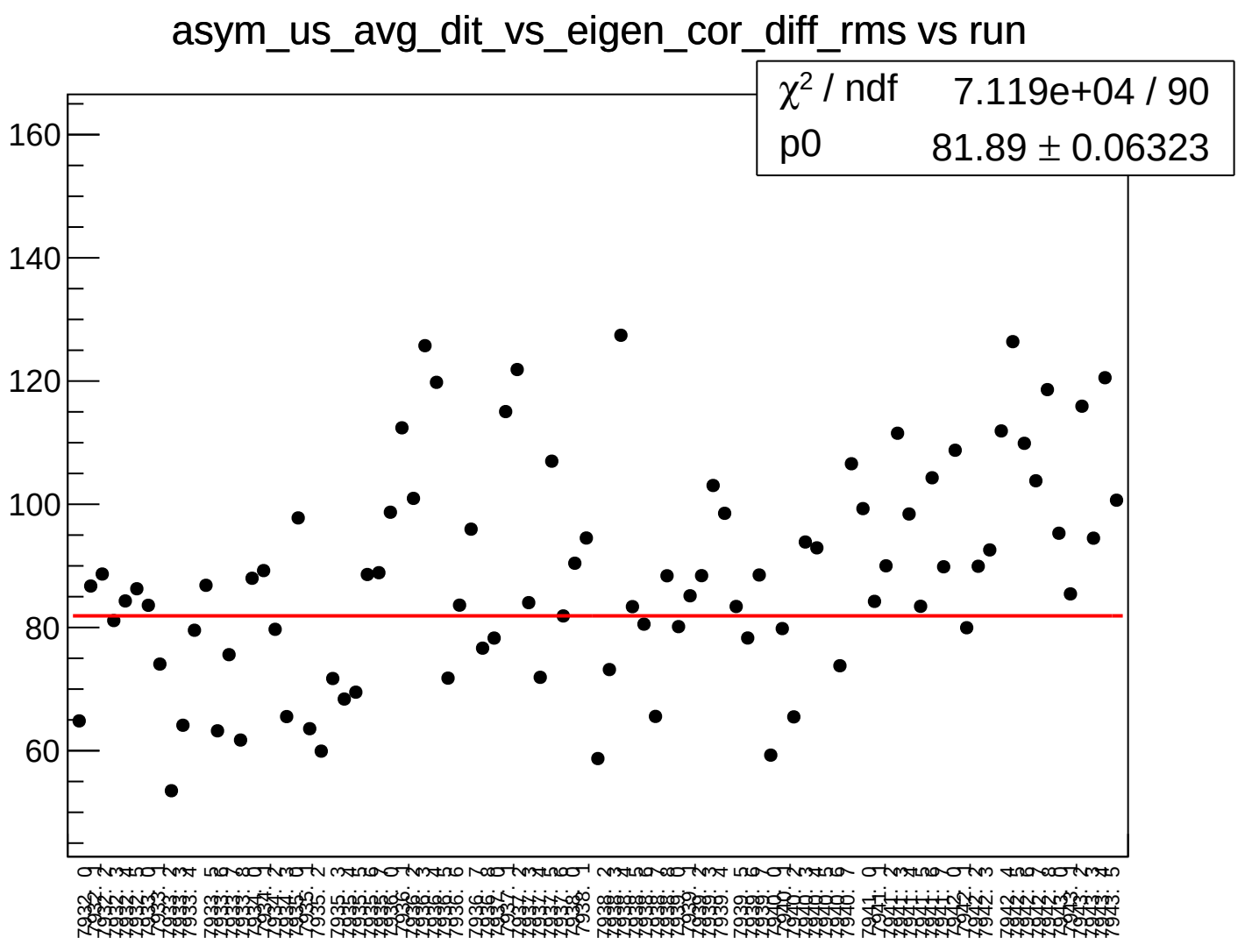

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.036e+05 / 90
p0 1.735e−10 ± 1.888e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

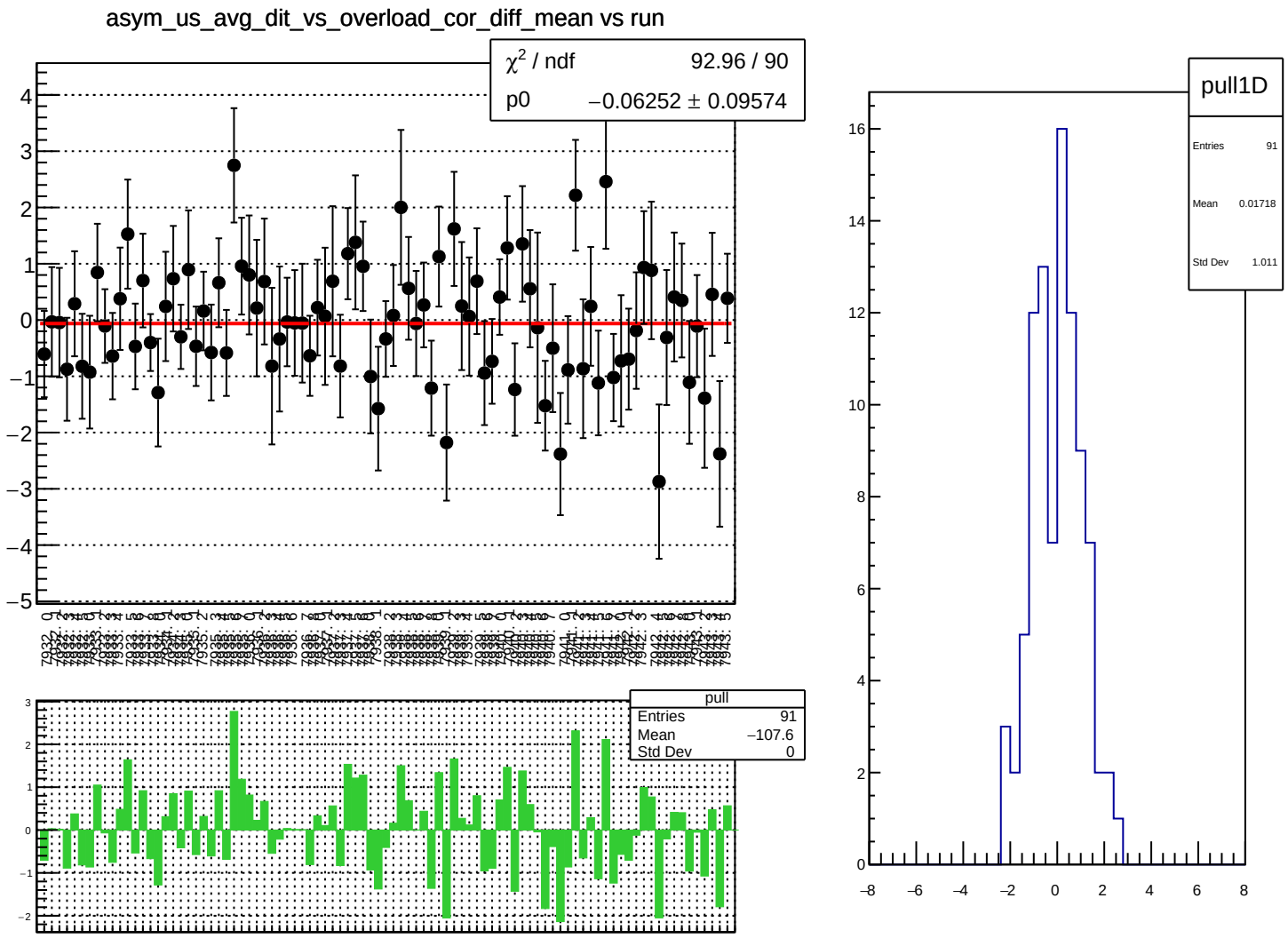

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 90
p0 −0.0319 ± 0.08943
pull
Entries 91
Mean −55.77
Std Dev 0

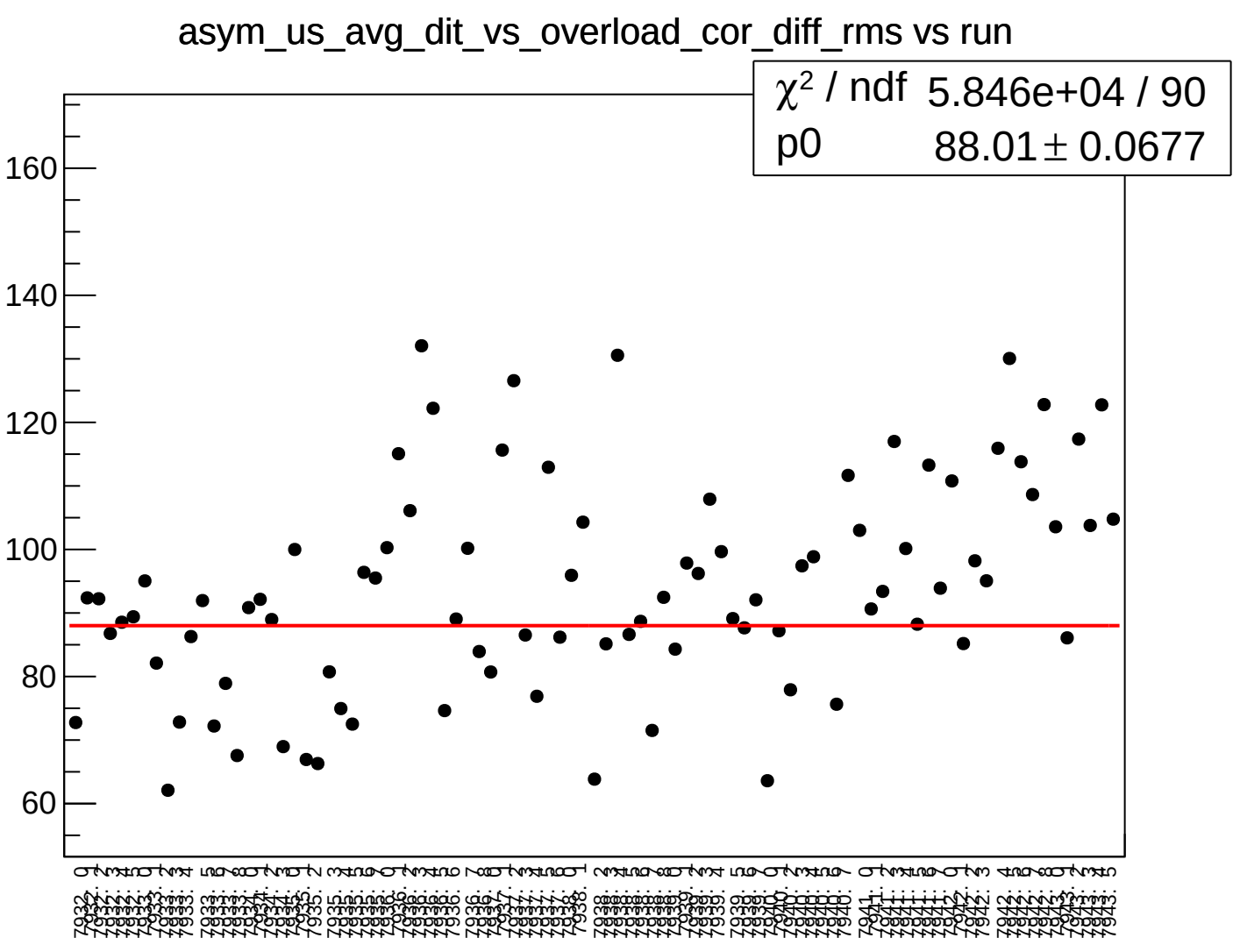

pull1D
Entries 91
Mean 0.02275
Std Dev 1.066

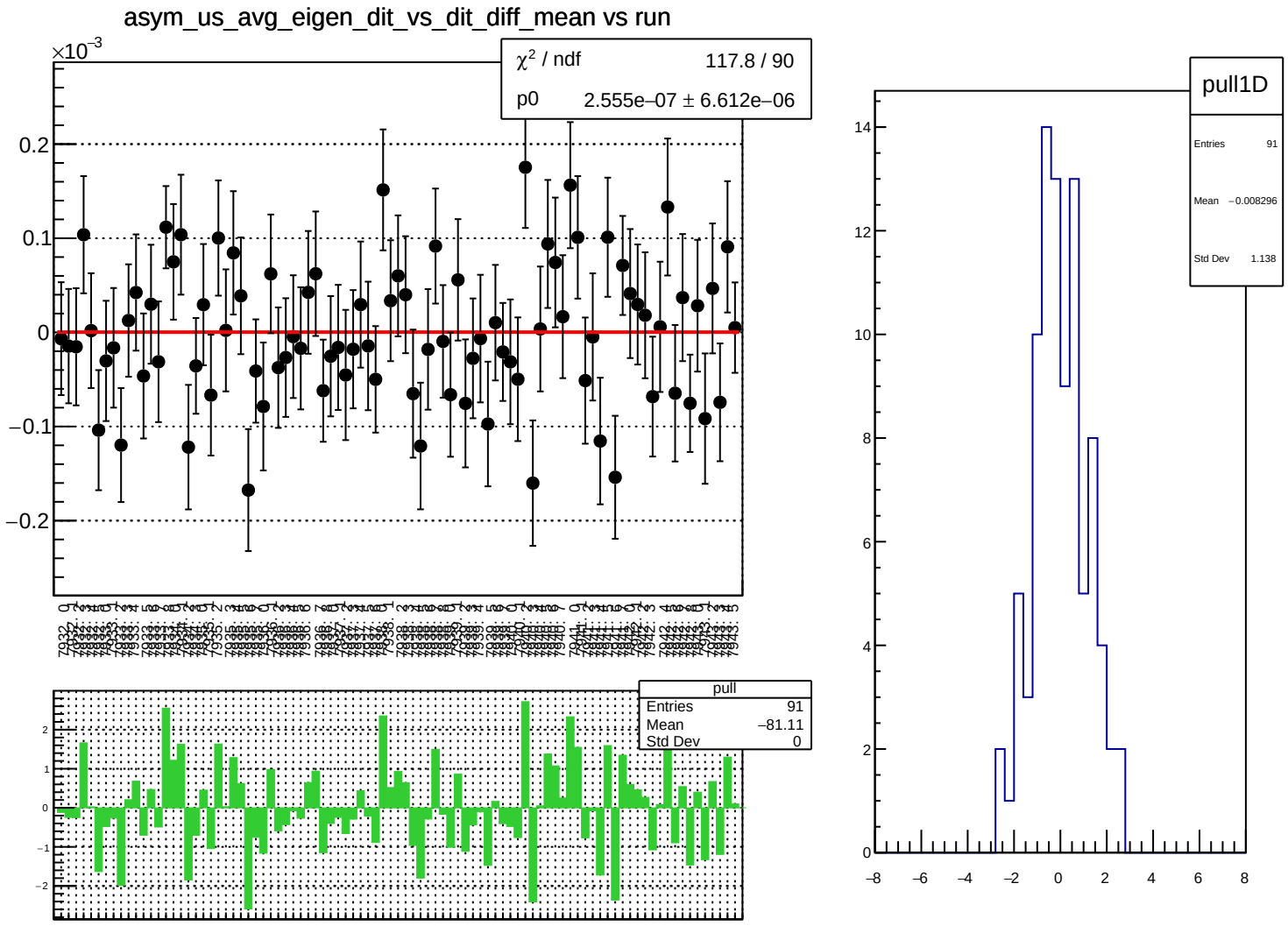

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.119e+04 / 90
p0 81.89 ± 0.06323
160
140
120
100
80
60

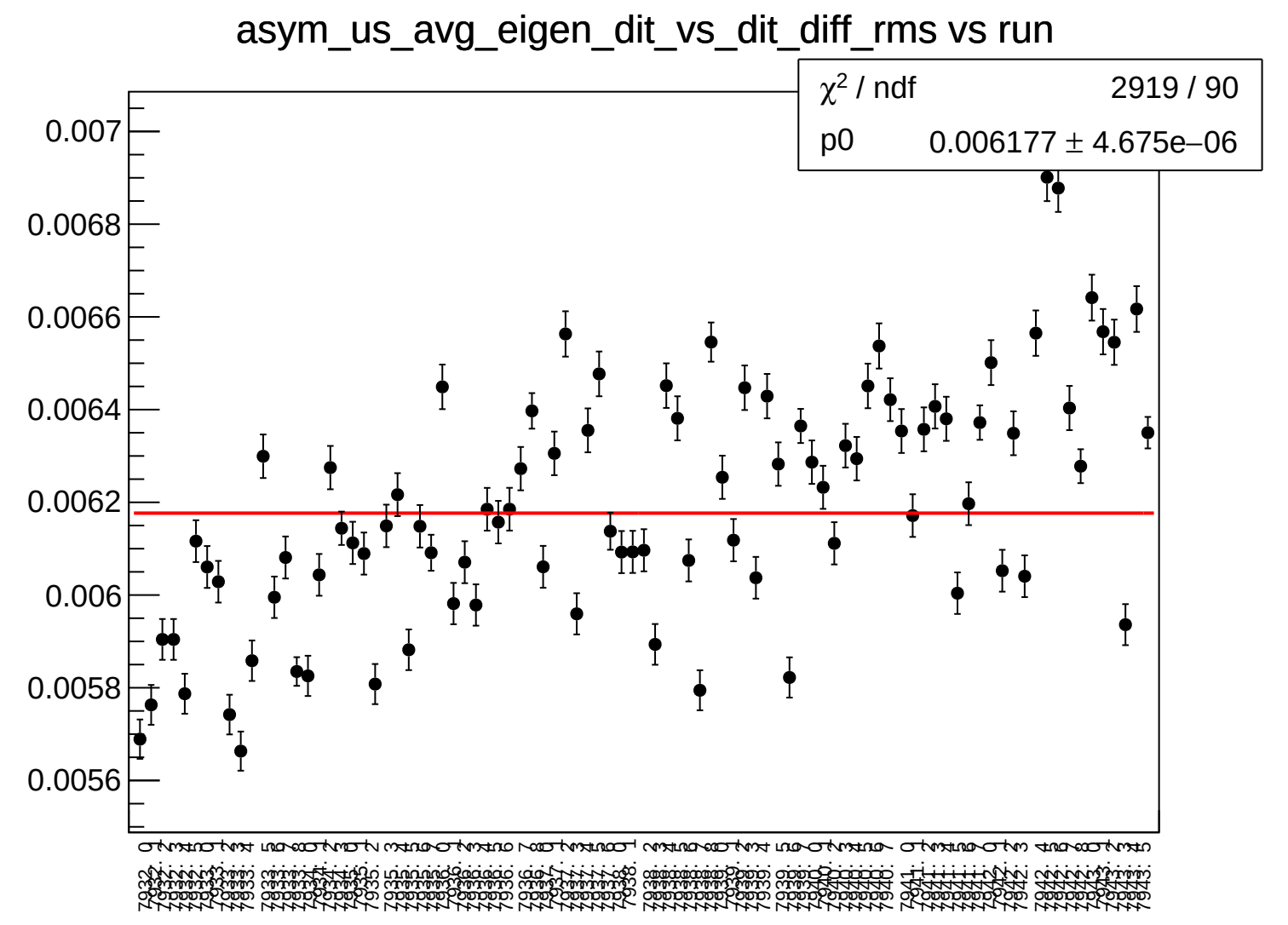

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 90
p0 −0.0319 ± 0.08943
pull
Entries 91
Mean −55.77
Std Dev 0
pull1D
Entries 91
Mean 0.02275
Std Dev 1.066

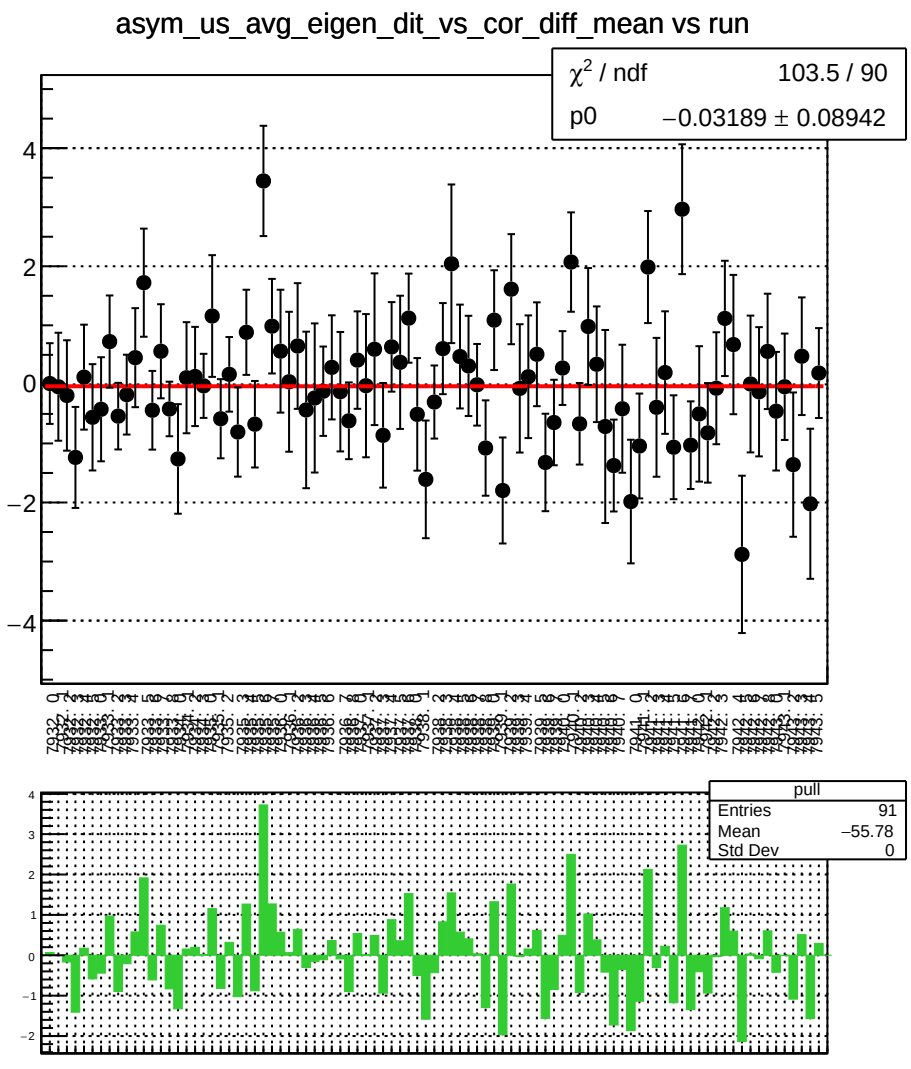

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.119e+04 / 90
p0 81.89 ± 0.06323
160
140
120
100
80
60

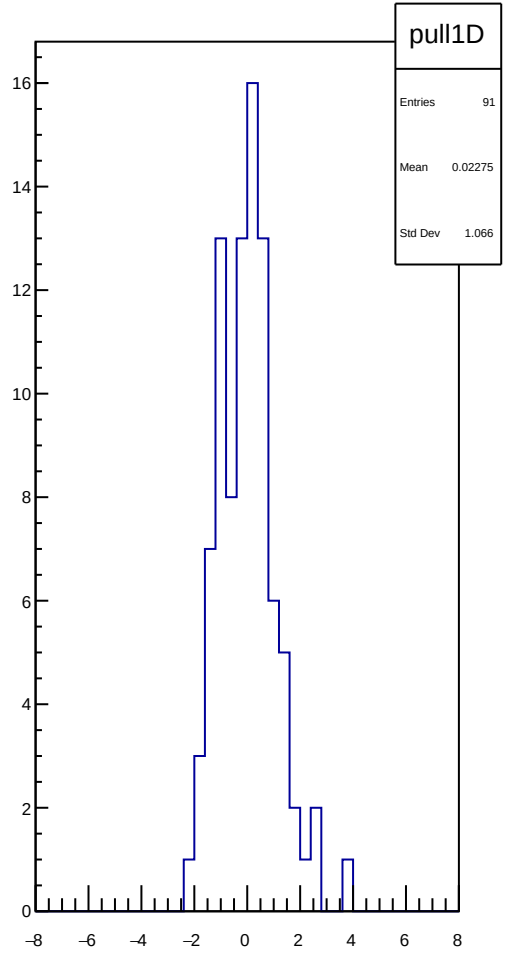

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 92.96 / 90
p0 −0.06252 ± 0.09574
pull
Entries 91
Mean −107.6
Std Dev 0
pull1D
Entries 91
Mean 0.01718
Std Dev 1.011

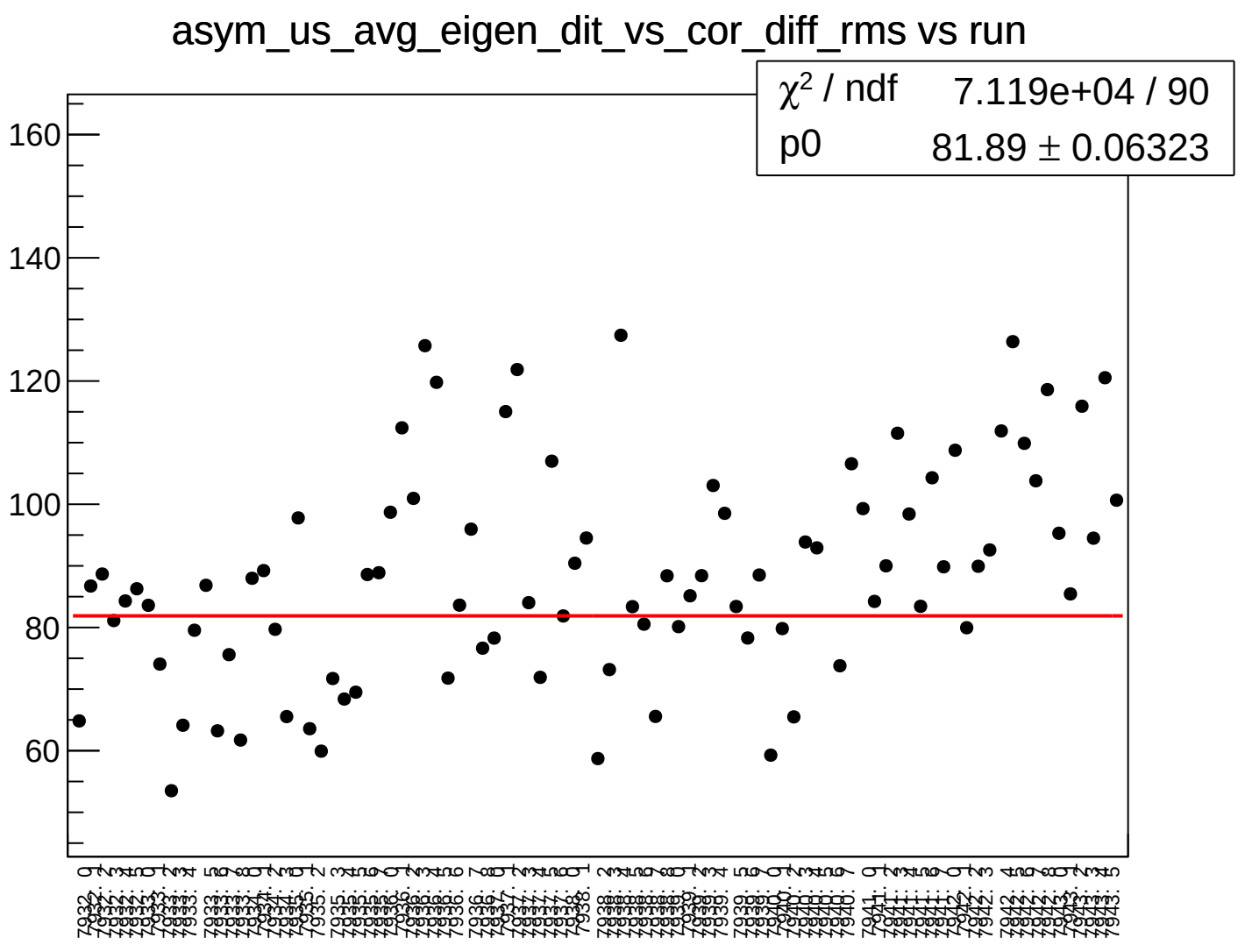

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.846e+04 / 90
p0 88.01 ± 0.0677
160
140
120
100
80
60

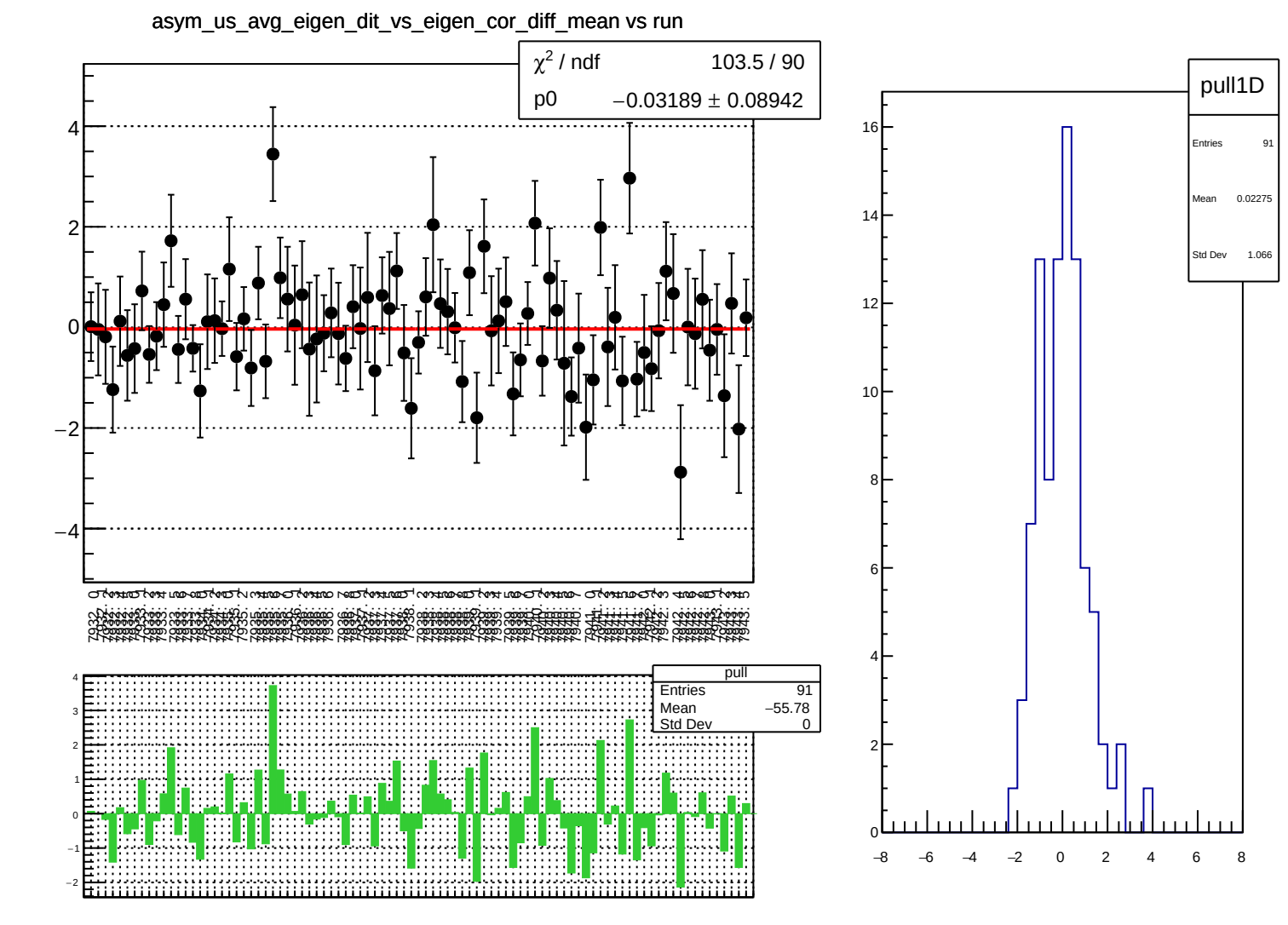

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.8 / 90
p0 2.555e−07 ± 6.612e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean −81.11
Std Dev 0
pull1D
Entries 91
Mean −0.008296
Std Dev 1.138
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

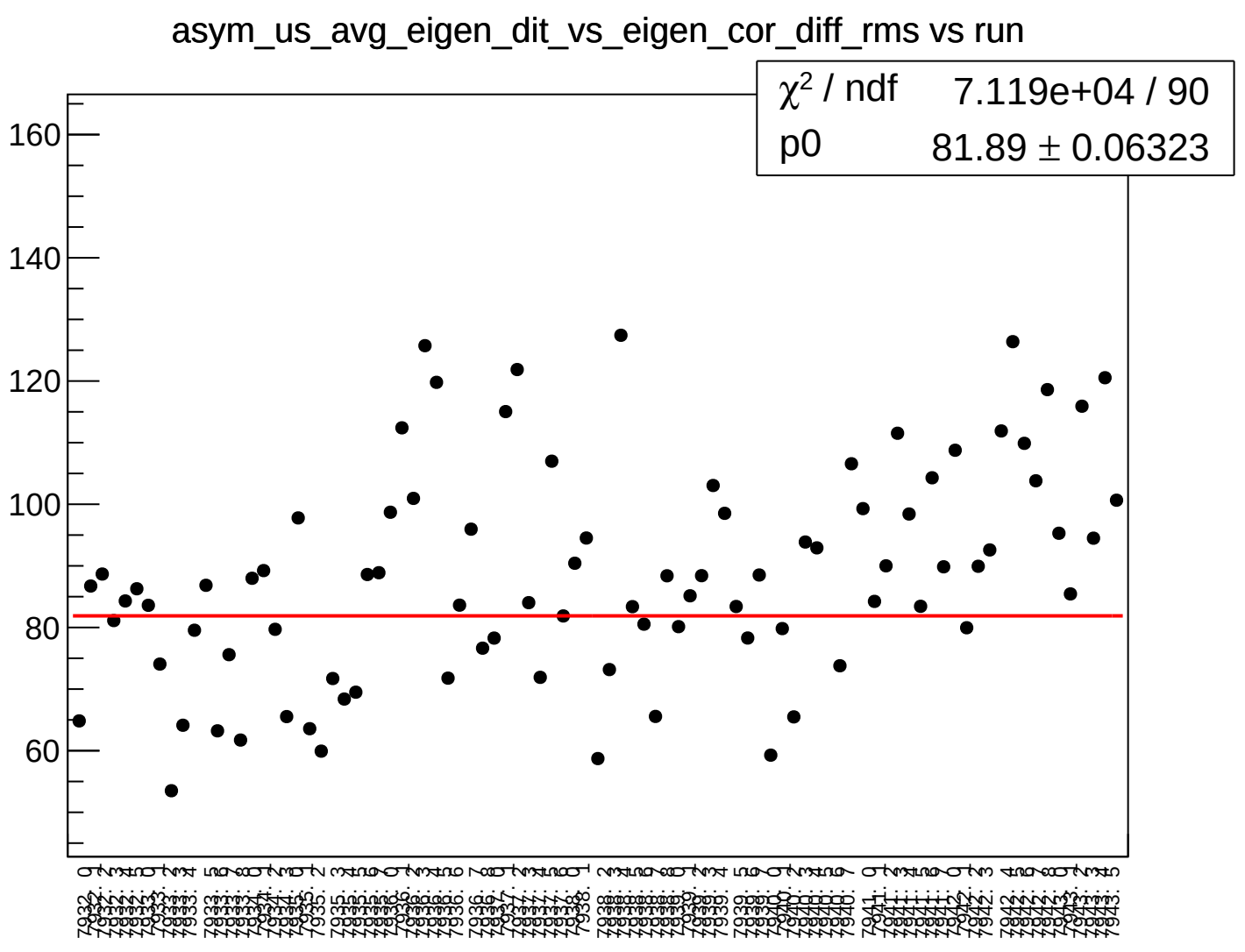

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2919 / 90
p0 0.006177 ± 4.675e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

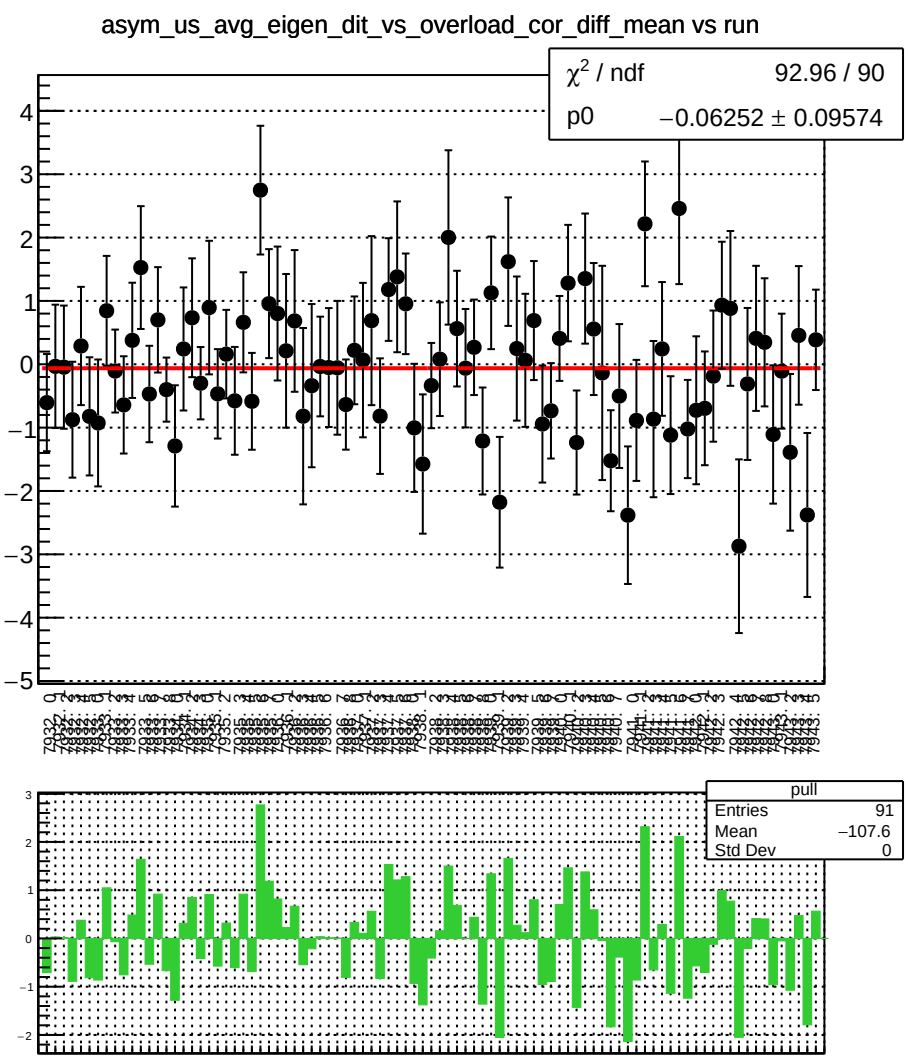

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 90
p0 −0.03189 ± 0.08942
pull
Entries 91
Mean −55.78
Std Dev 0

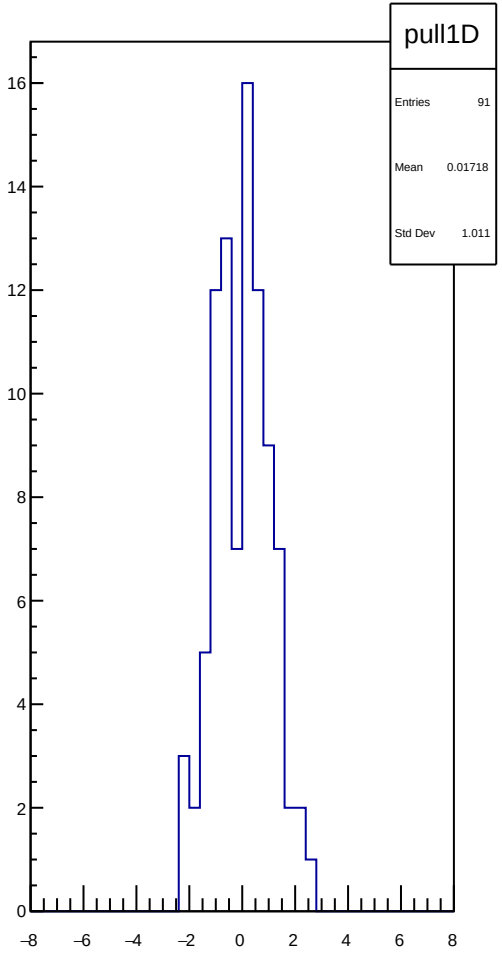

pull1D
Entries 91
Mean 0.02275
Std Dev 1.066

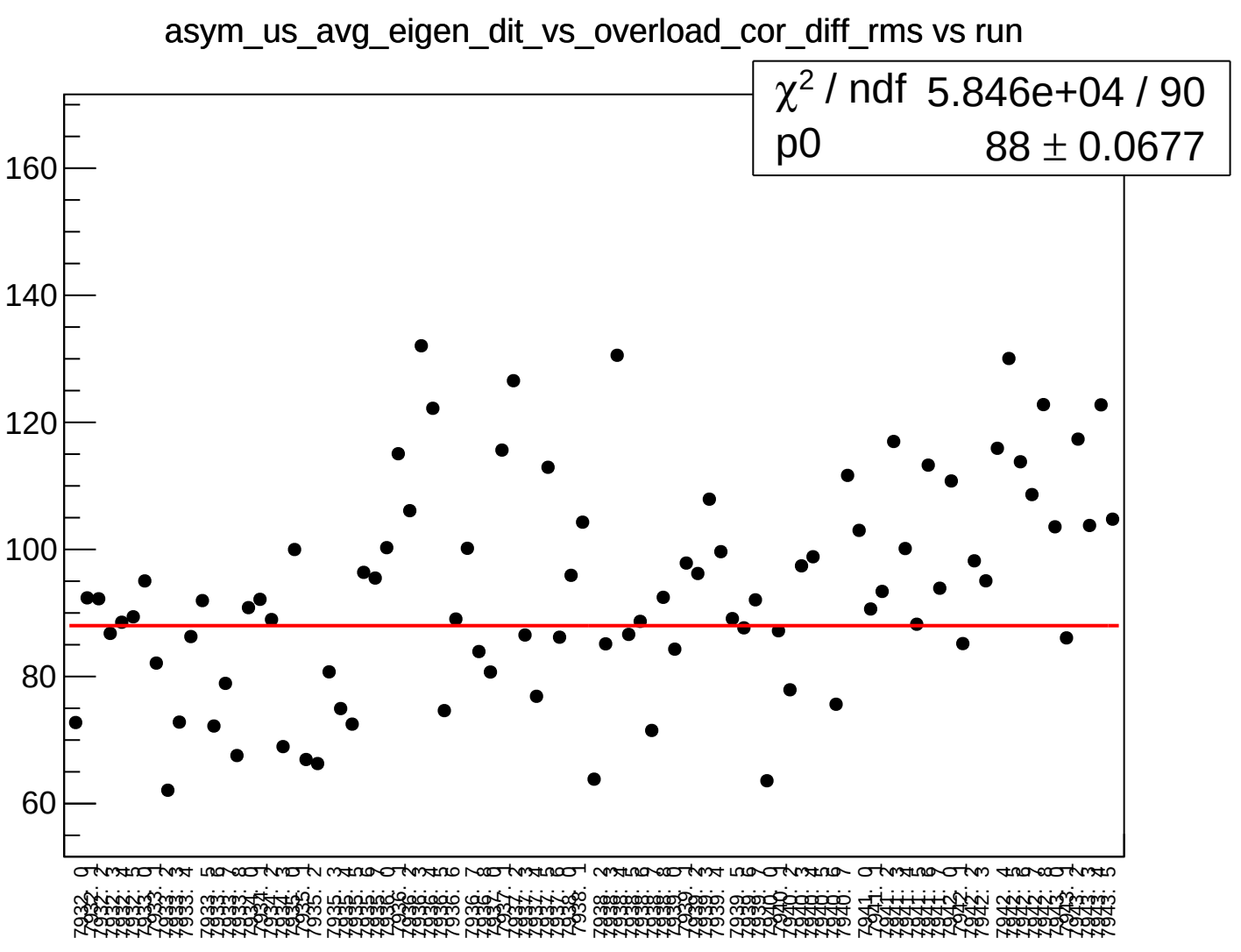

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.119e+04 / 90
p0 81.89 ± 0.06323
160
140
120
100
80
60

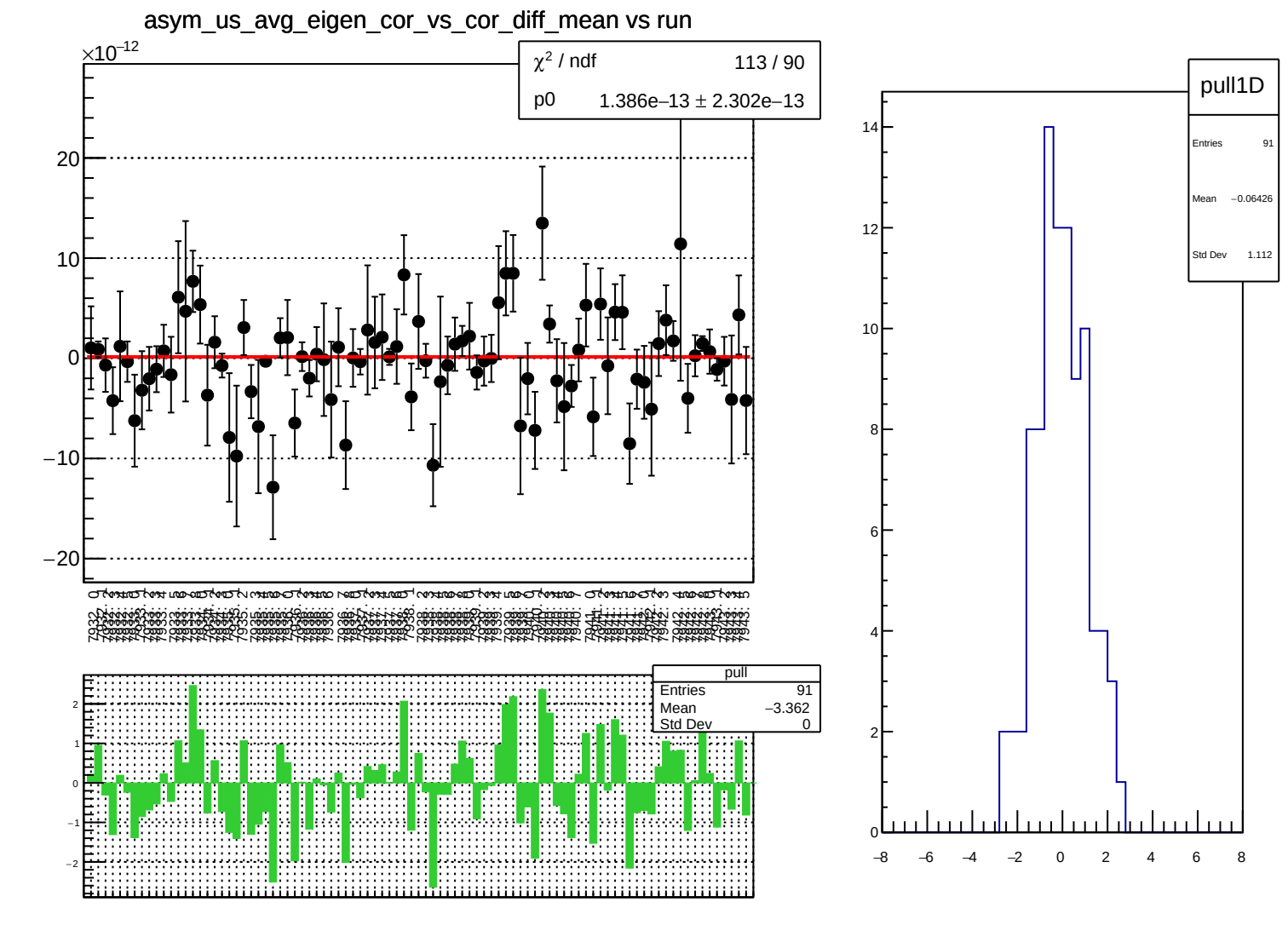

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 90
p0 −0.03189 ± 0.08942
pull
Entries 91
Mean −55.78
Std Dev 0
pull1D
Entries 91
Mean 0.02275
Std Dev 1.066

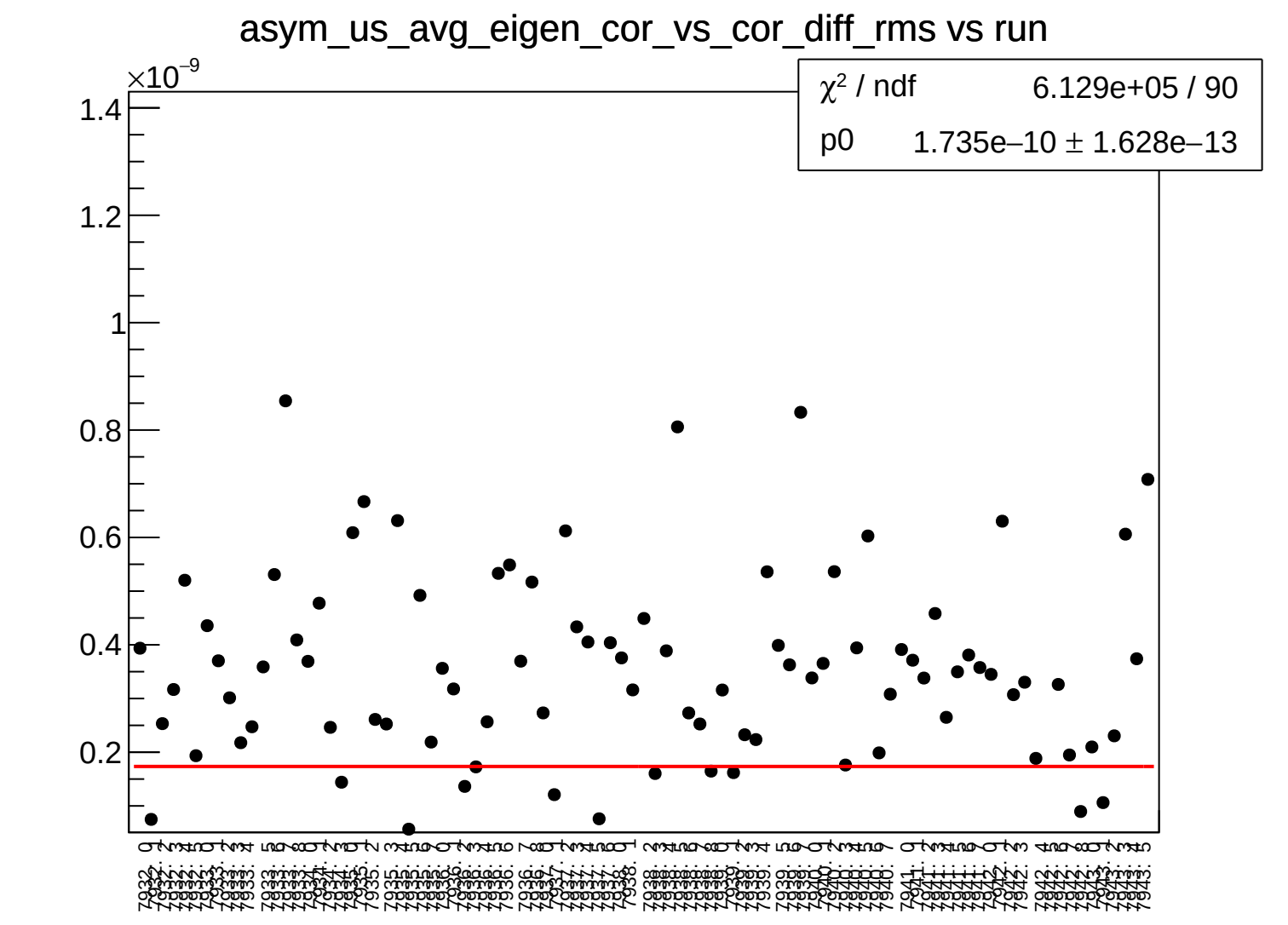

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.119e+04 / 90
p0 81.89 ± 0.06323
160
140
120
100
80
60

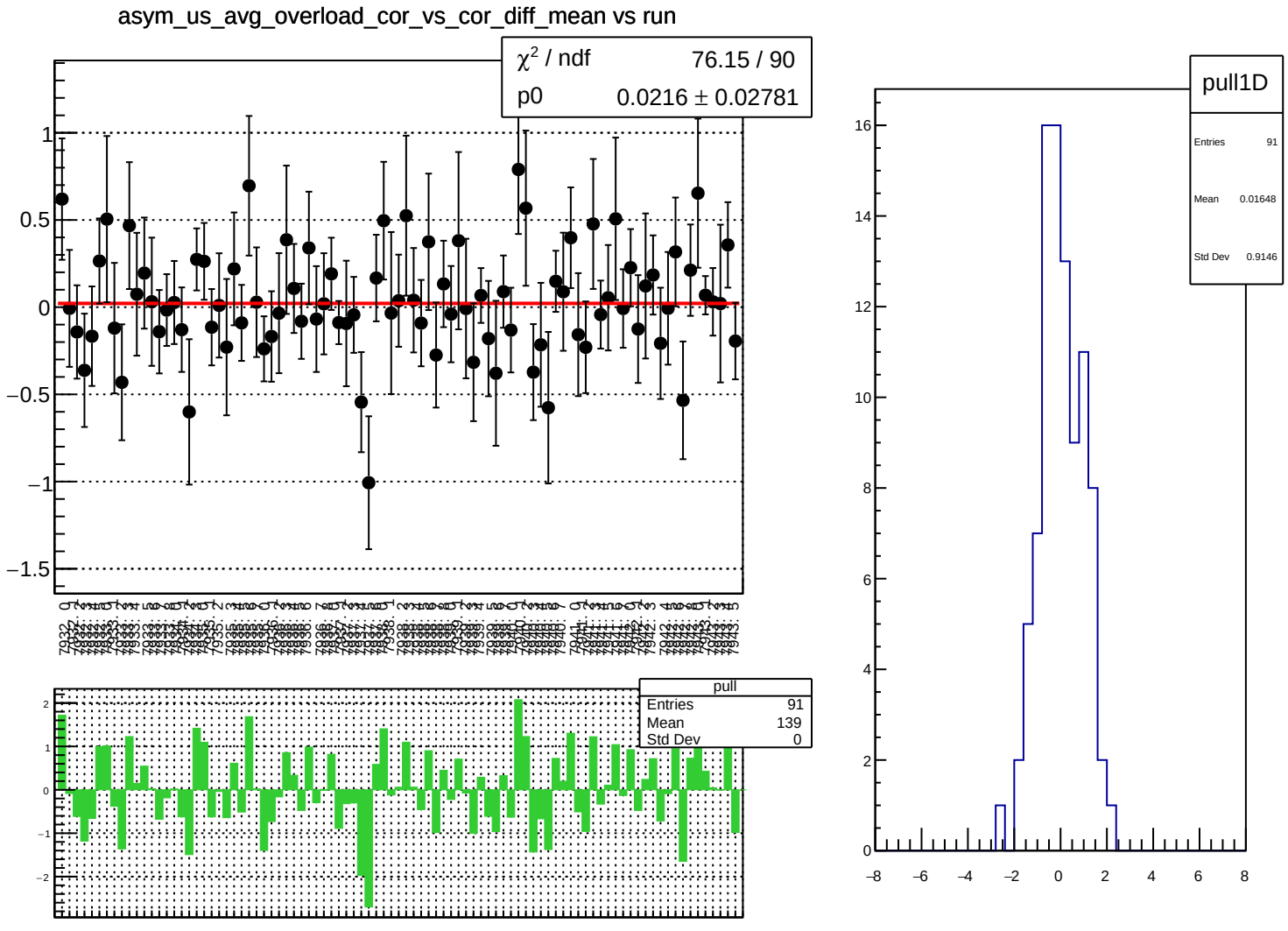

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 92.96 / 90
p0 −0.06252 ± 0.09574
pull
Entries 91
Mean −107.6
Std Dev 0

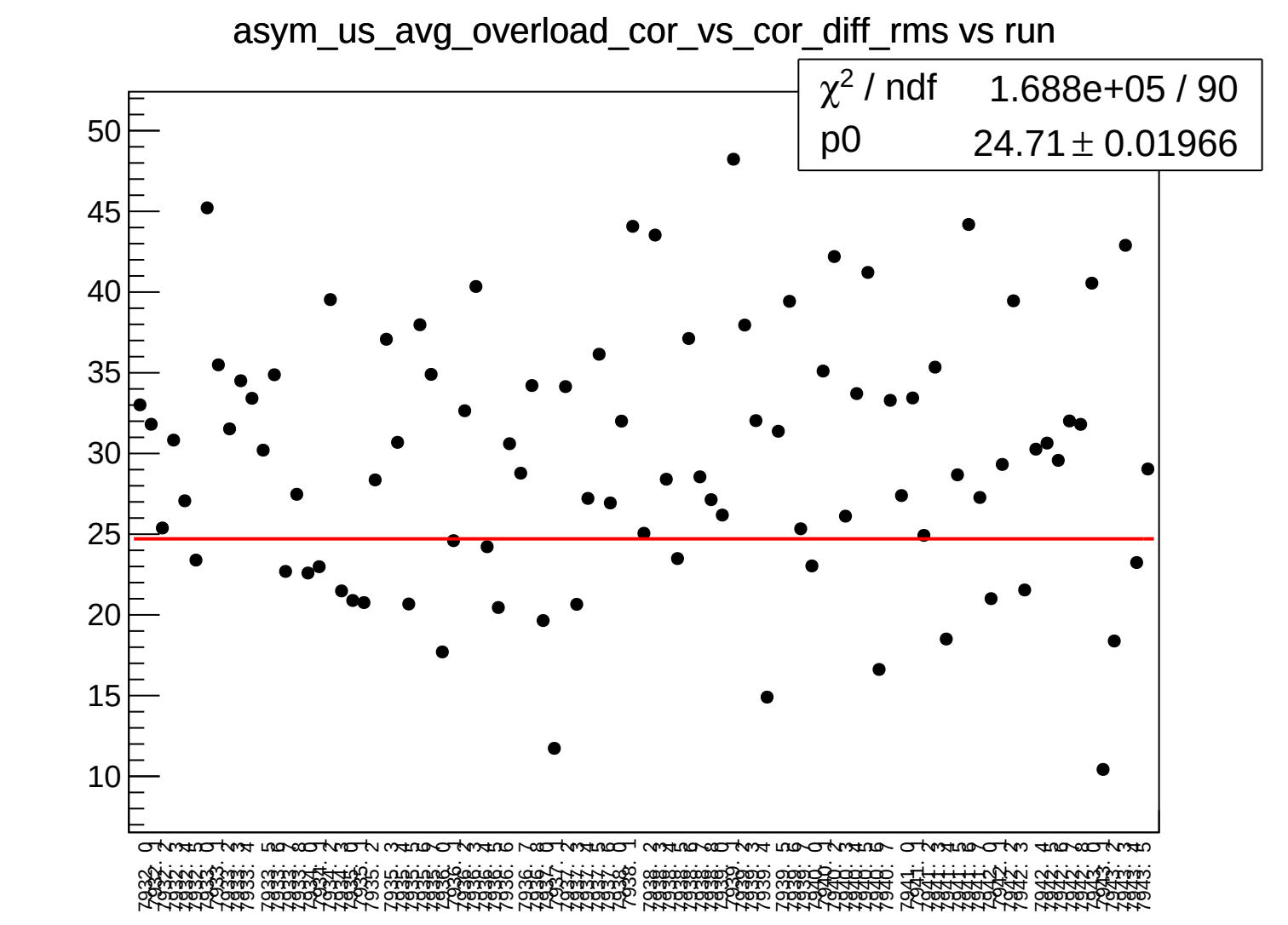

pull1D
Entries 91
Mean 0.01718
Std Dev 1.011

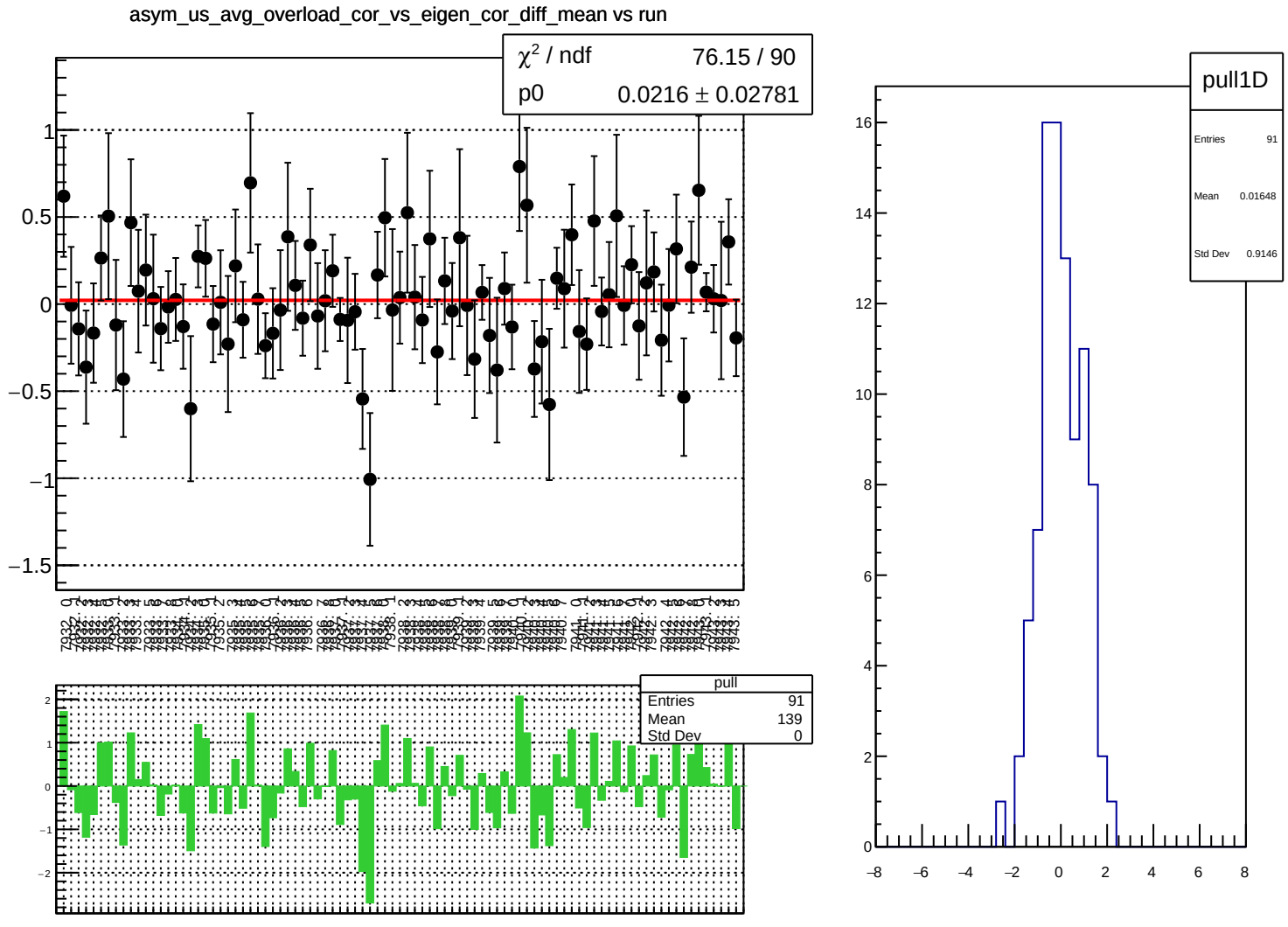

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.846e+04 / 90
p0 88 ± 0.0677
160
140
120
100
80
60

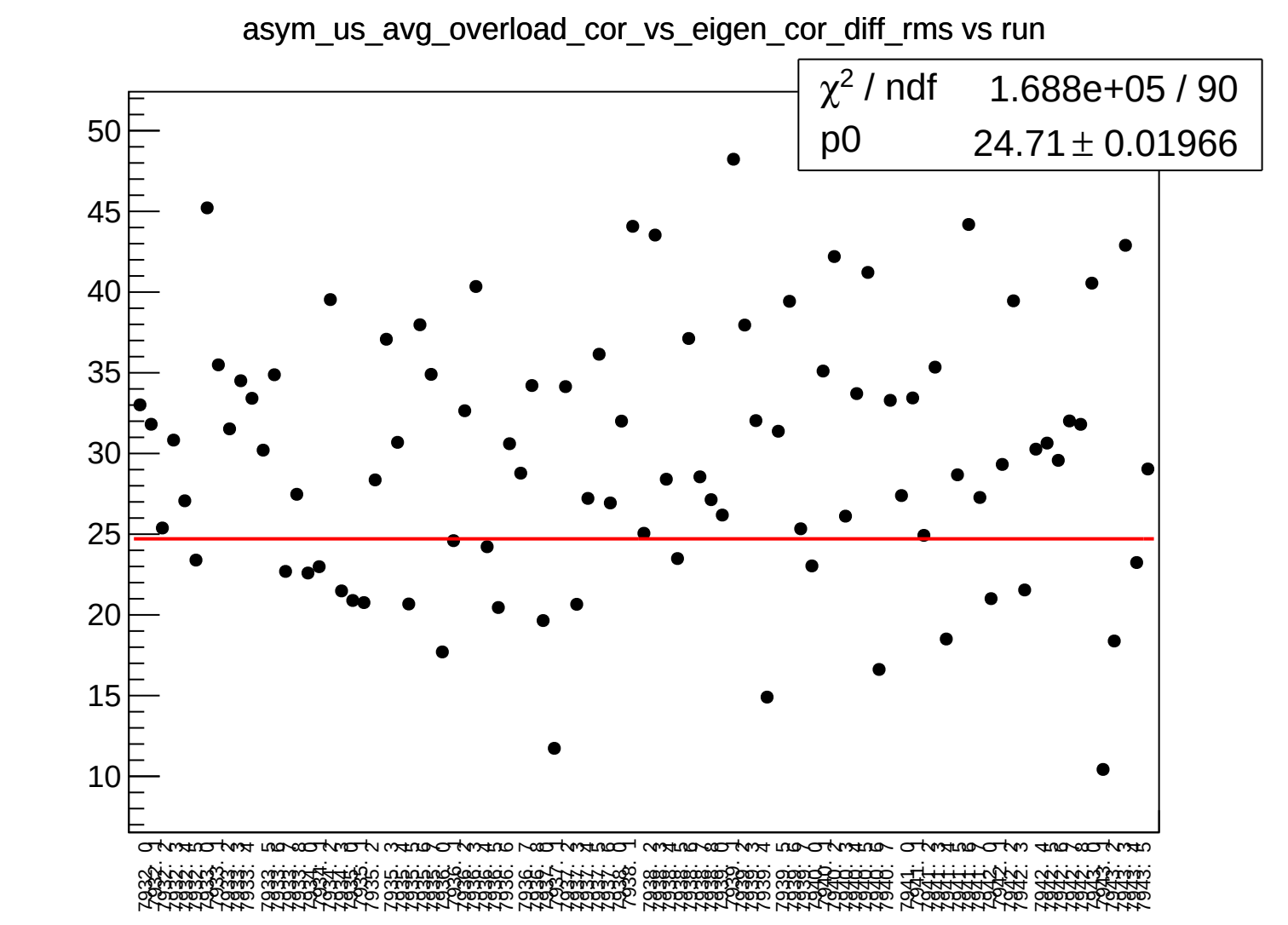

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113 / 90
p0 1.386e−13 ± 2.302e−13
pull
Entries 91
Mean −3.362
Std Dev 0
pull1D
Entries 91
Mean −0.06426
Std Dev 1.112

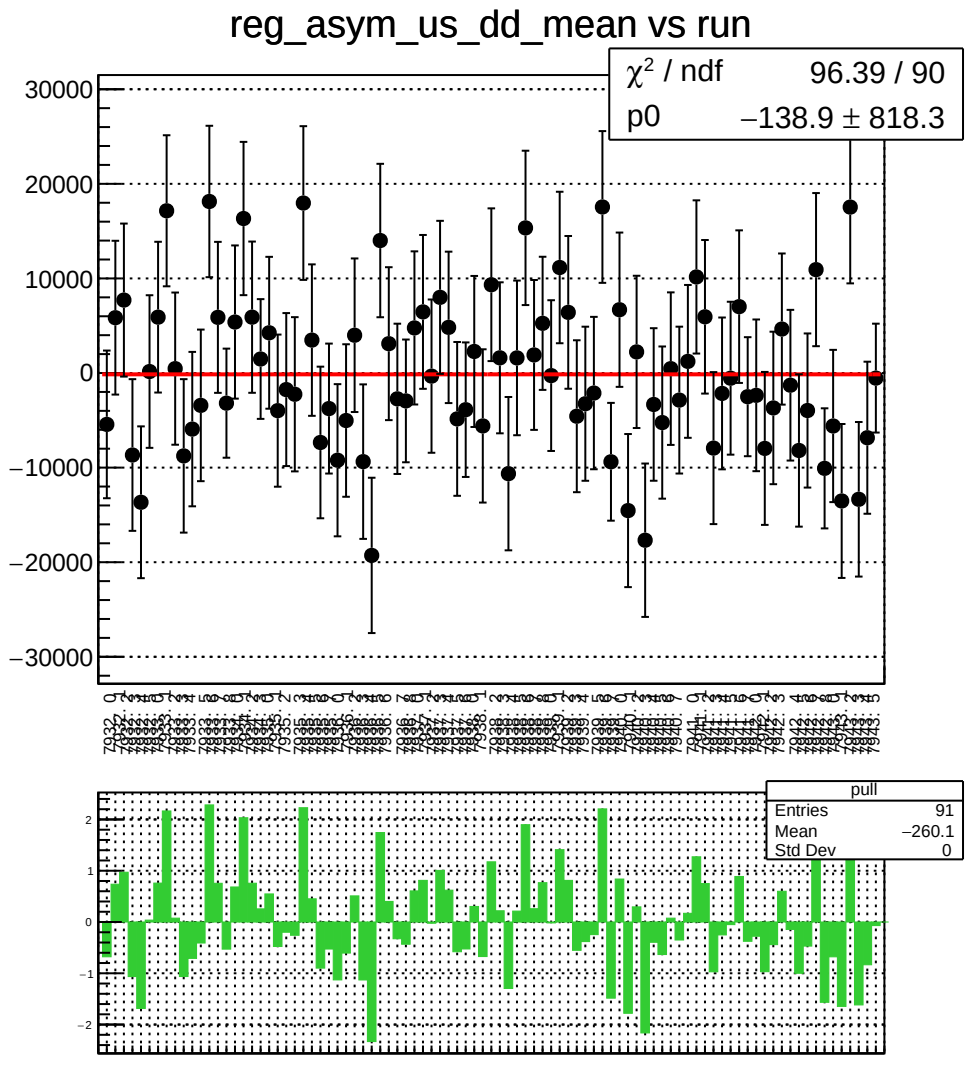

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.129e+05 / 90
p0 1.735e−10 ± 1.628e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

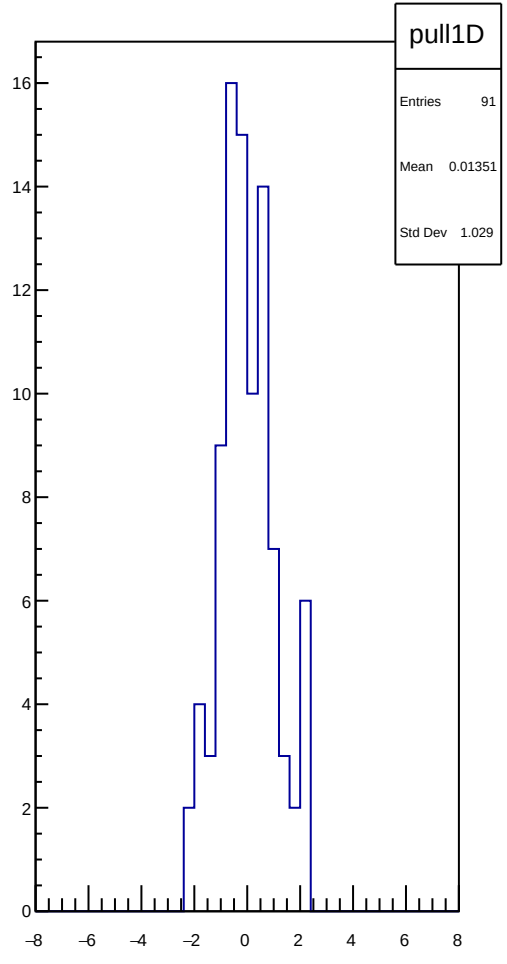

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 76.15 / 90
p0 0.0216 ± 0.02781
pull
Entries 91
Mean 139
Std Dev 0
pull1D
Entries 91
Mean 0.01648
Std Dev 0.9146

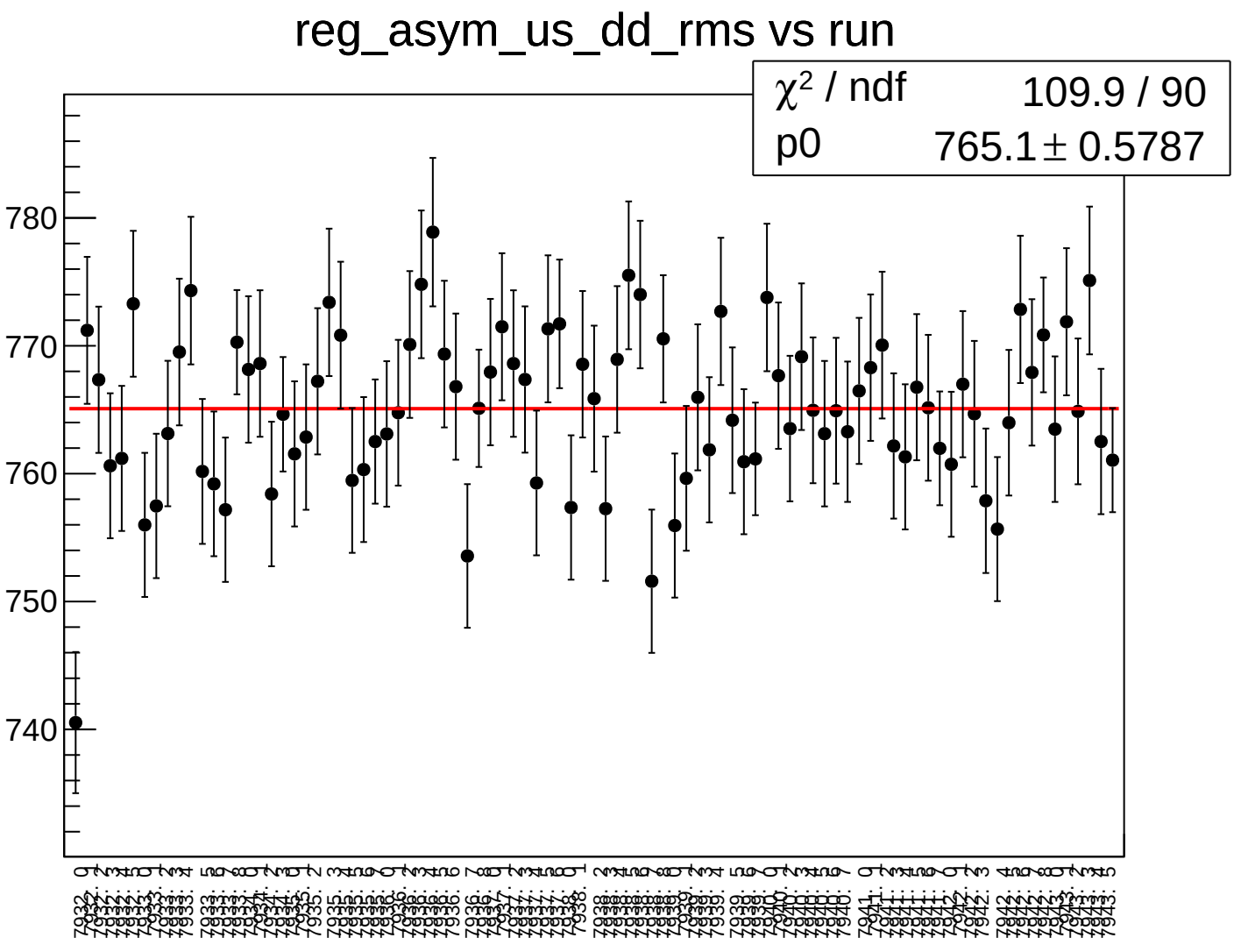

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.688e+05 / 90
p0 24.71 ± 0.01966
50
45
40
35
30
25
20
15
10

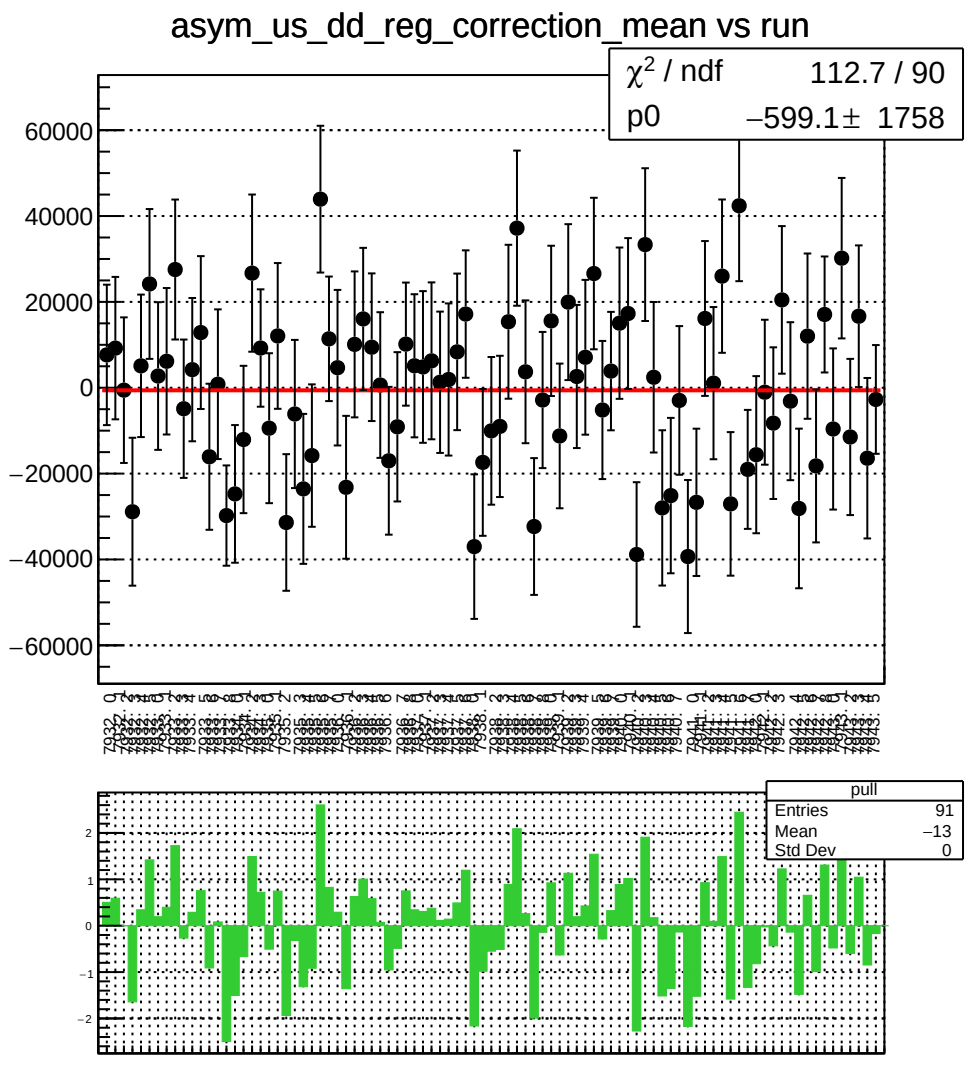

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.15 / 90
p0 0.0216 ± 0.02781
pull
Entries 91
Mean 139
Std Dev 0
pull1D
Entries 91
Mean 0.01648
Std Dev 0.9146

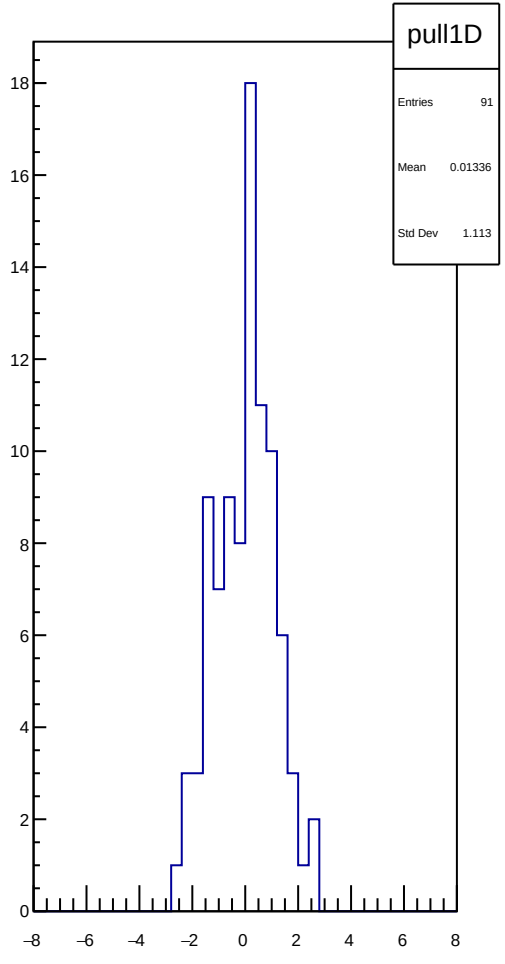

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 90
p0 24.71 ± 0.01966
50
45
40
35
30
25
20
15
10

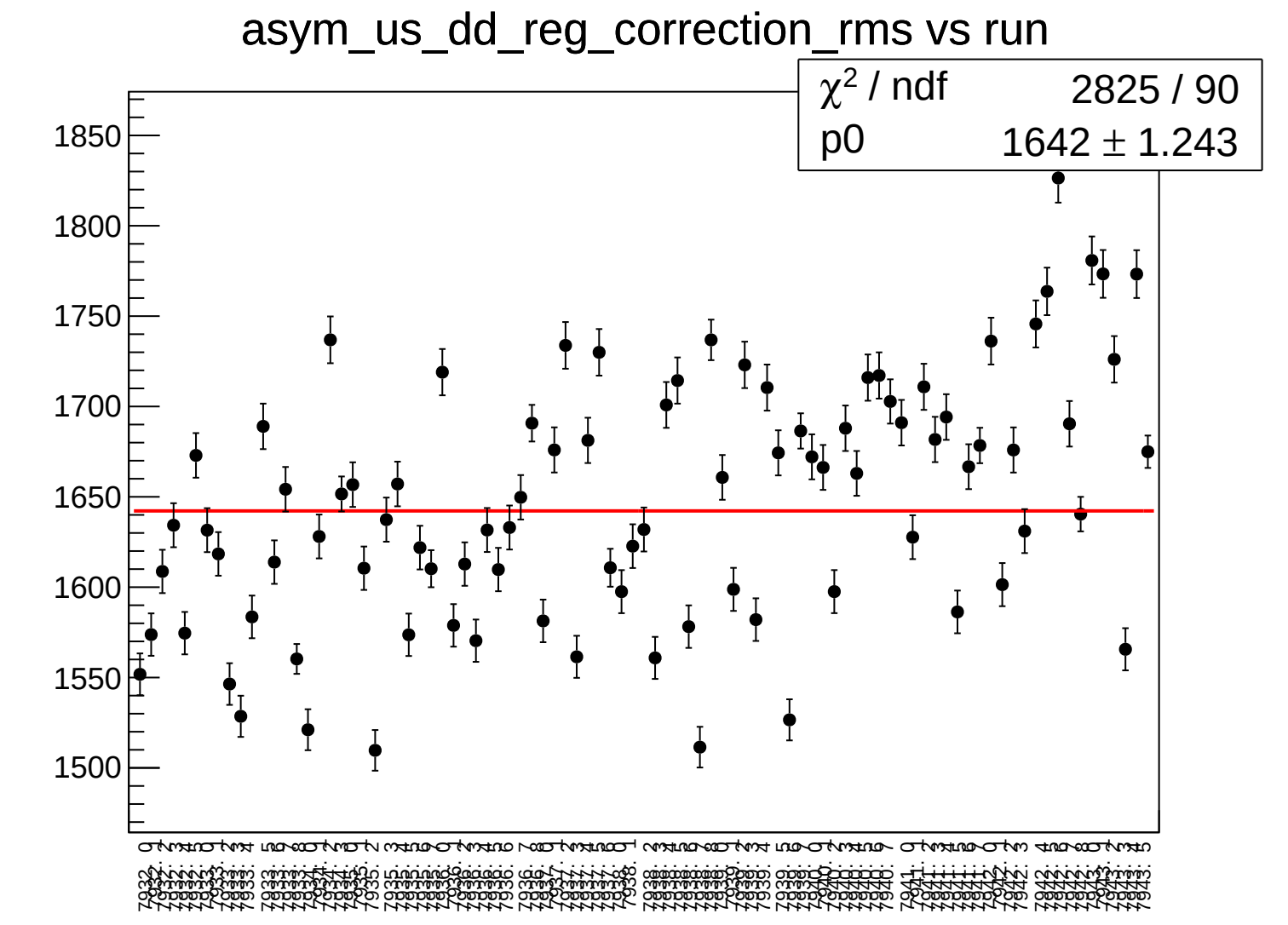

reg_asym_us_dd_mean vs run
χ² / ndf 96.39 / 90
p0 −138.9 ± 818.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −260.1
Std Dev 0
2
1
0
−1
−2

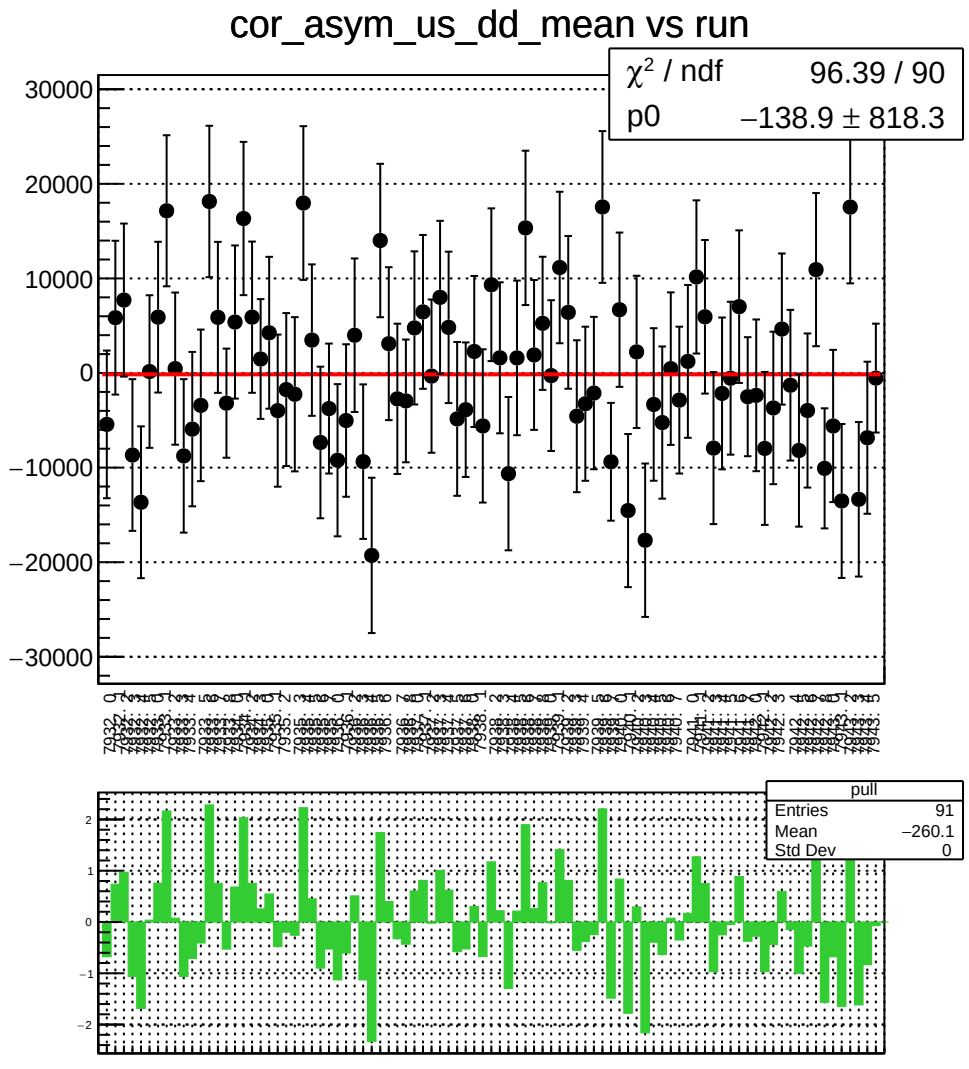

pull1D
Entries 91
Mean 0.01351
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

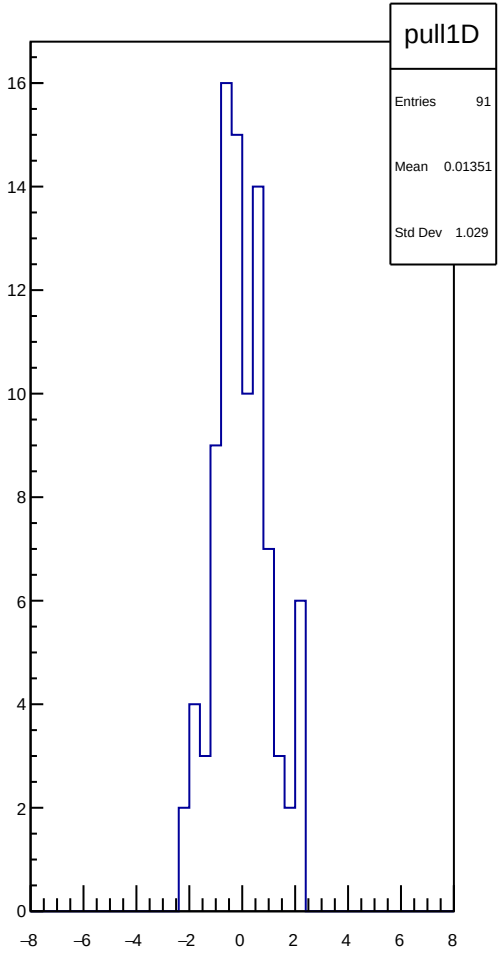

reg_asym_us_dd_rms vs run
χ² / ndf 109.9 / 90
p0 765.1 ± 0.5787
780
770
760
750
740

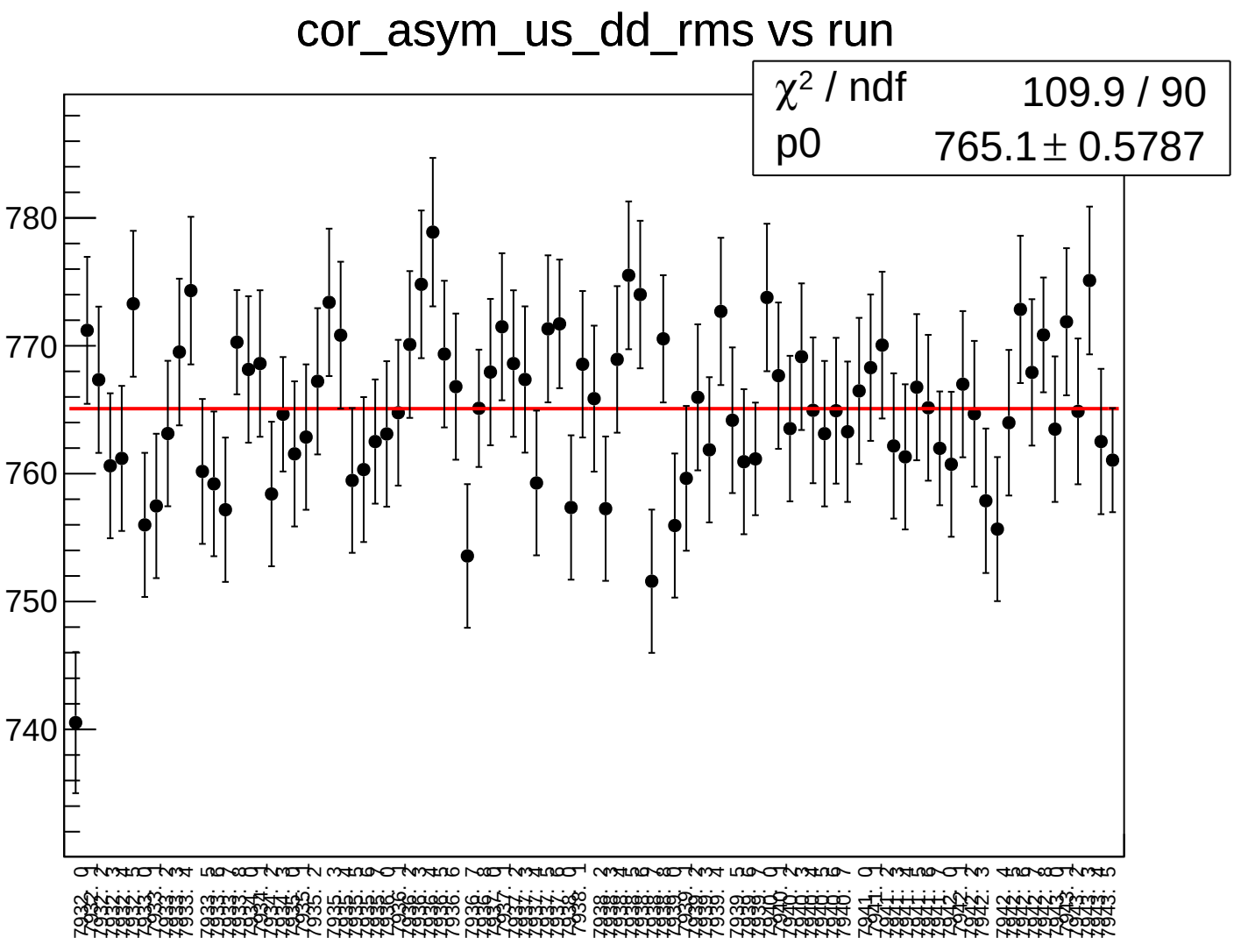

asym_us_dd_reg_correction_mean vs run
χ² / ndf 112.7 / 90
p0 −599.1± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −13
Std Dev 0
2
1
0
−1
−2

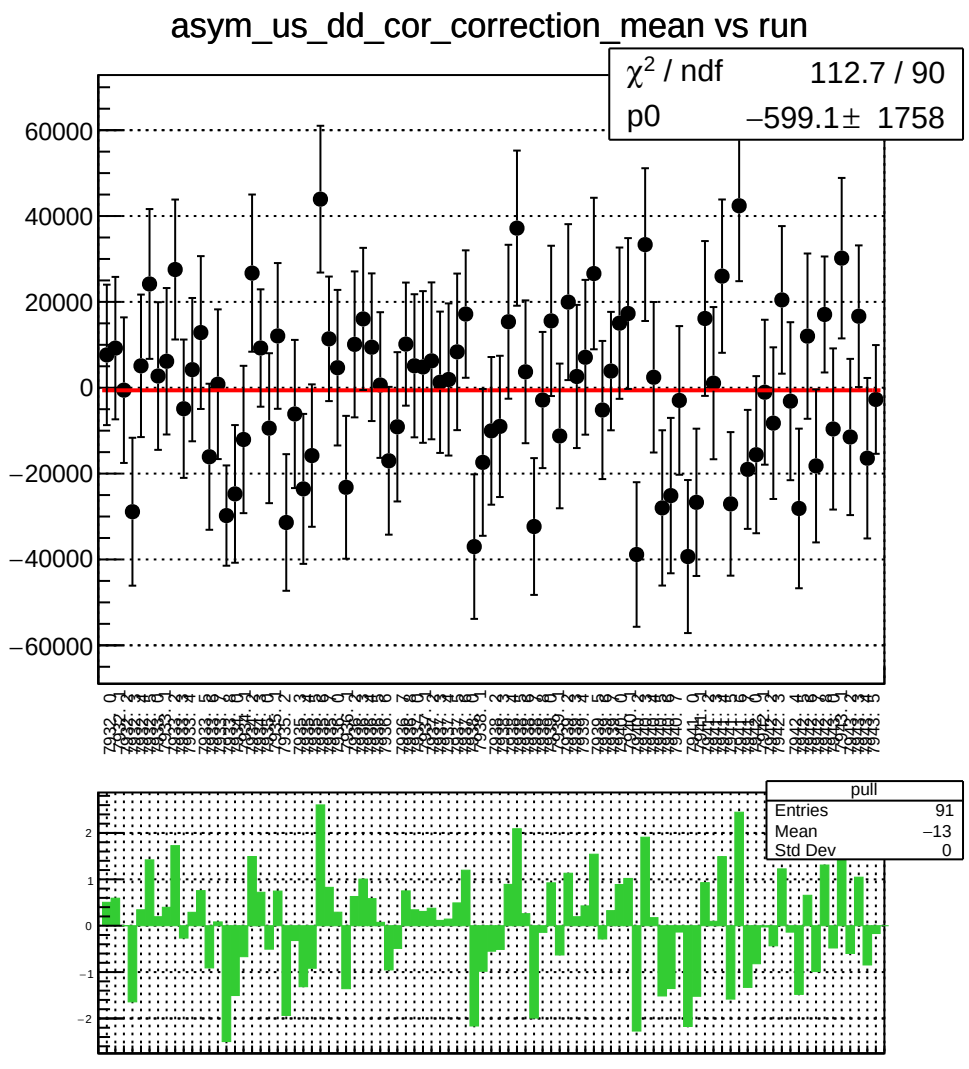

pull1D
Entries 91
Mean 0.01336
Std Dev 1.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

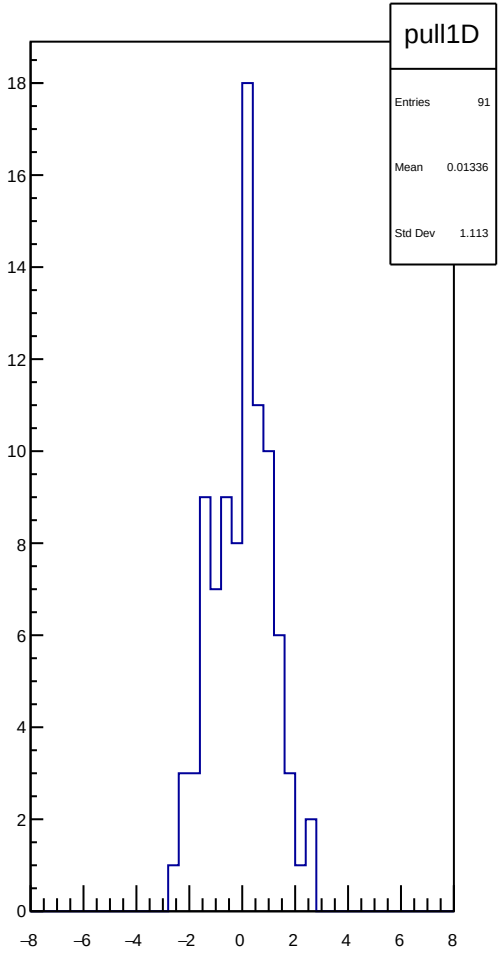

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2825 / 90
p0 1642 ± 1.243
1850
1800
1750
1700
1650
1600
1550
1500

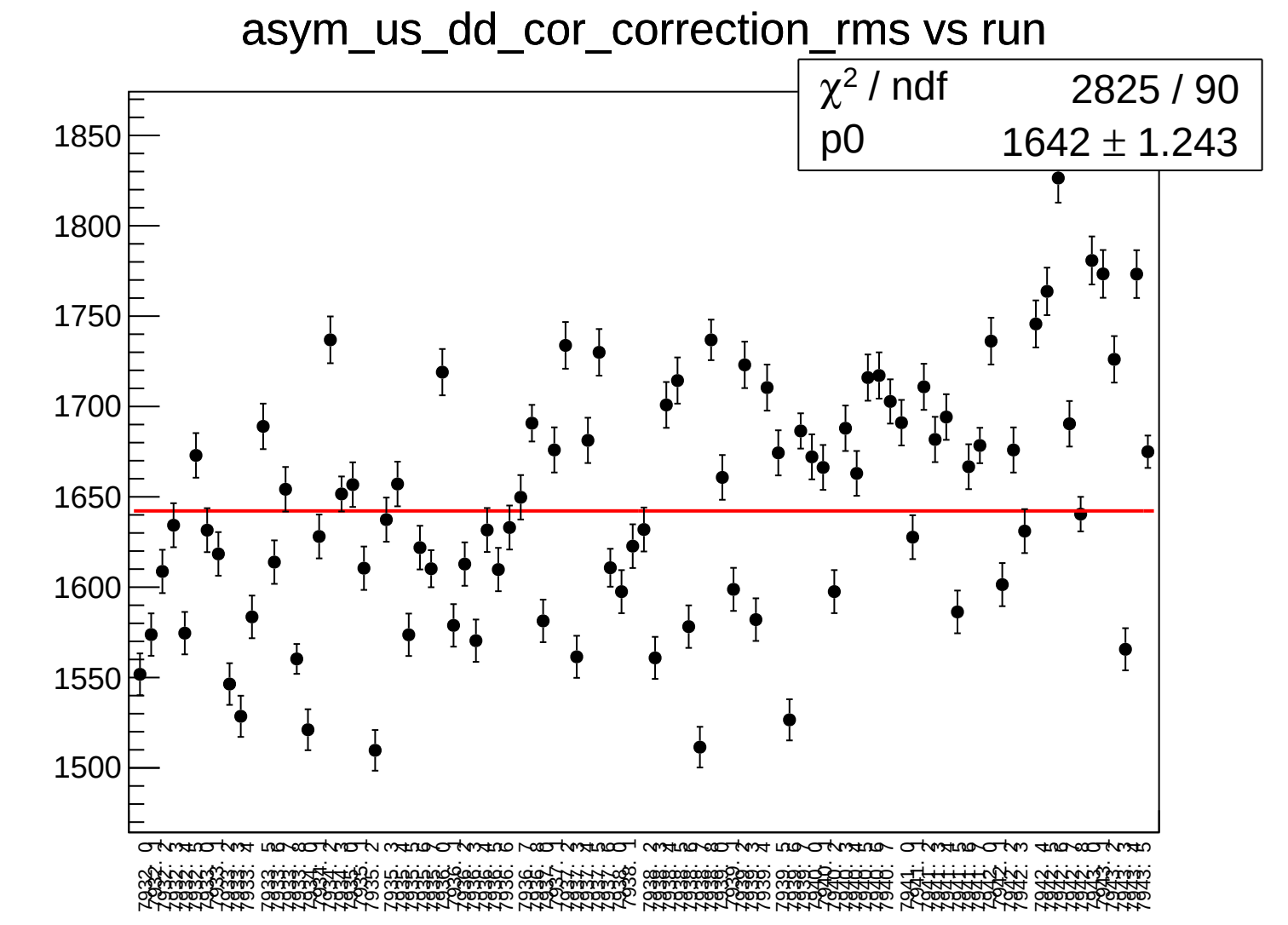

cor_asym_us_dd_mean vs run
χ² / ndf 96.39 / 90
p0 −138.9 ± 818.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −260.1
Std Dev 0
2
1
0
−1
−2

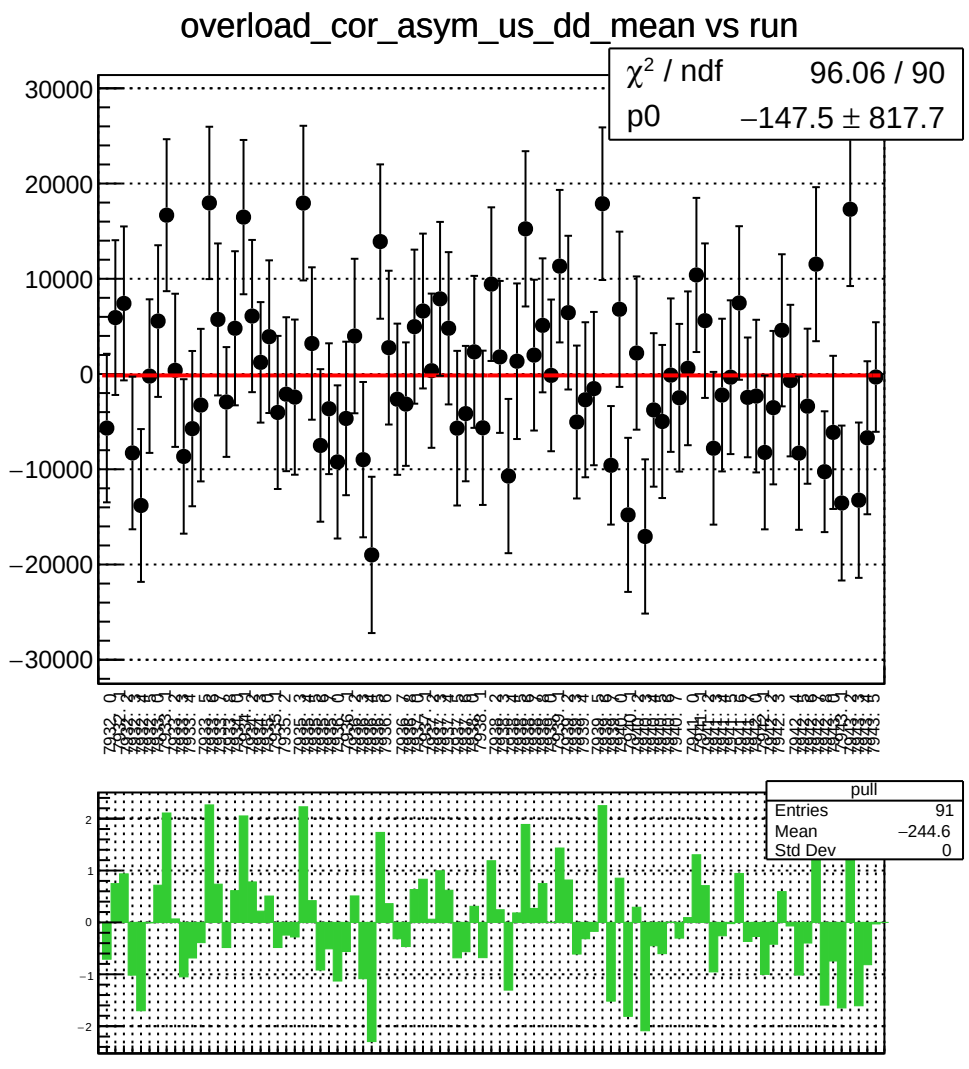

pull1D
Entries 91
Mean 0.01351
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

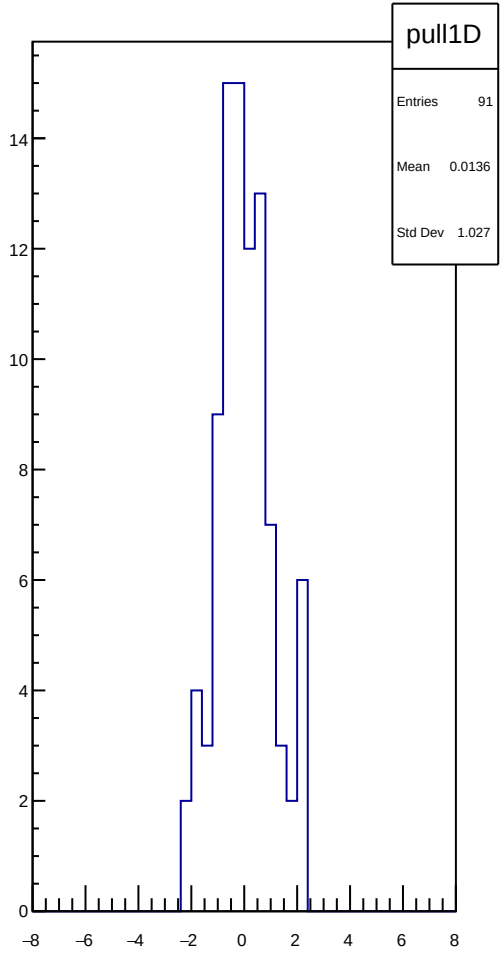

cor_asym_us_dd_rms vs run
χ² / ndf 109.9 / 90
p0 765.1 ± 0.5787
780
770
760
750
740

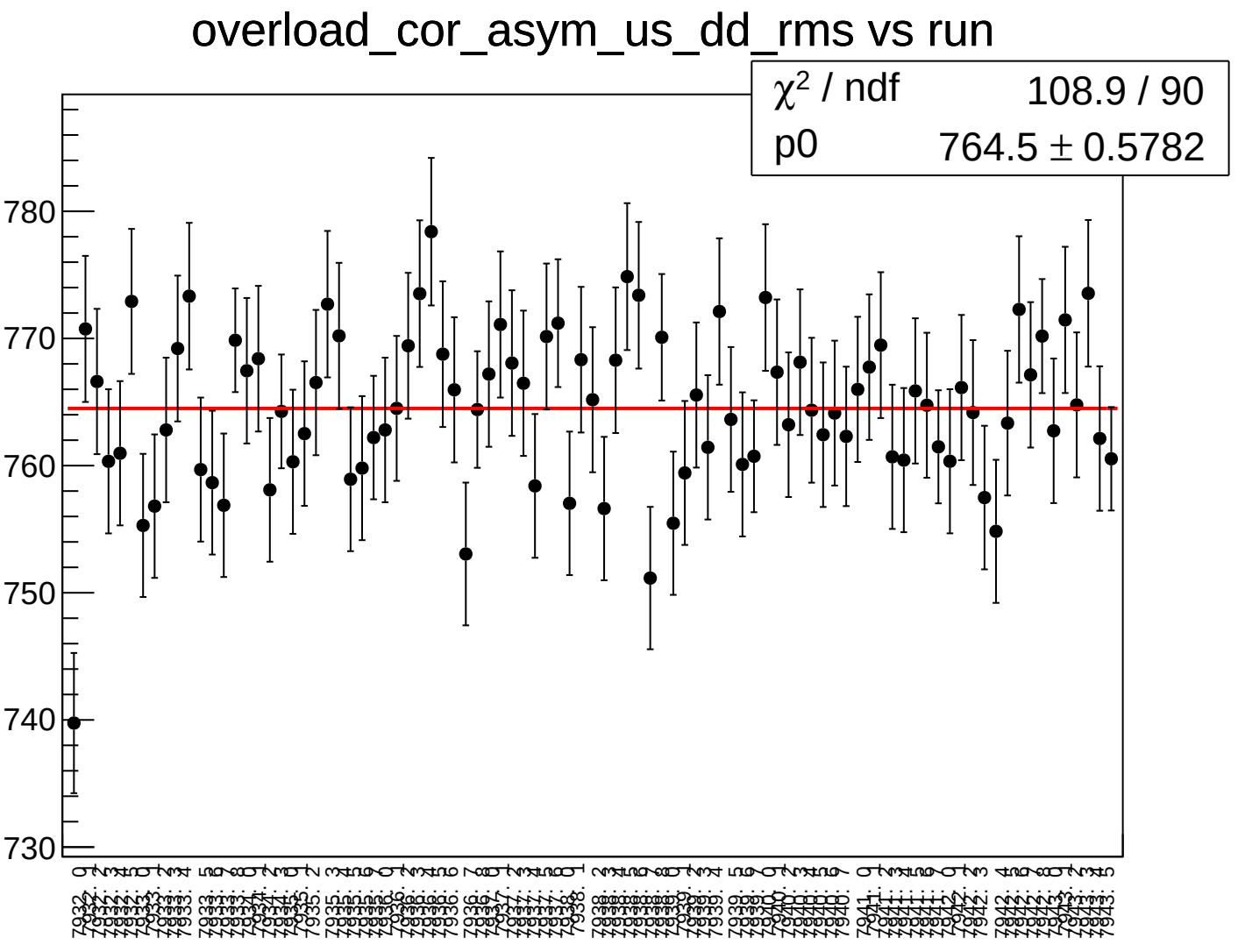

asym_us_dd_cor_correction_mean vs run
χ² / ndf 112.7 / 90
p0 −599.1± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −13
Std Dev 0
2
1
0
−1
−2

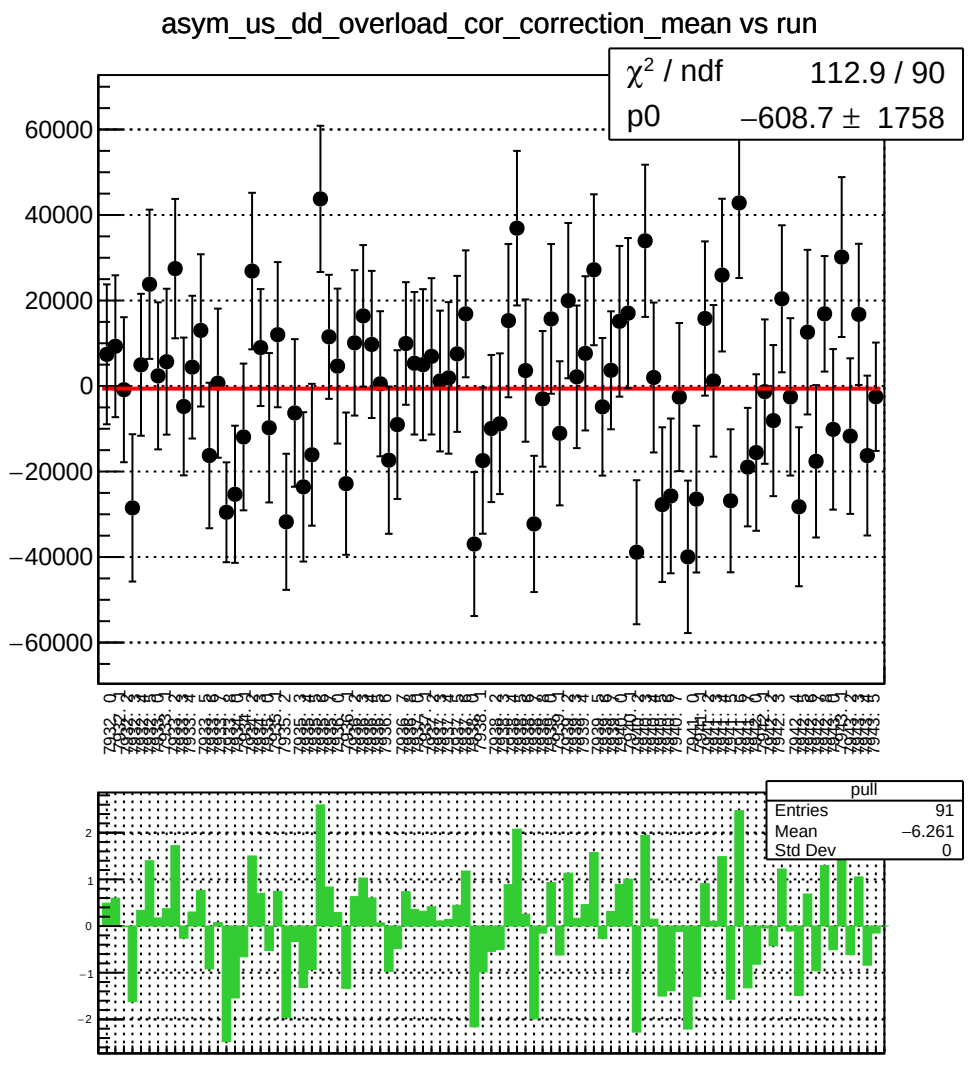

pull1D
Entries 91
Mean 0.01336
Std Dev 1.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

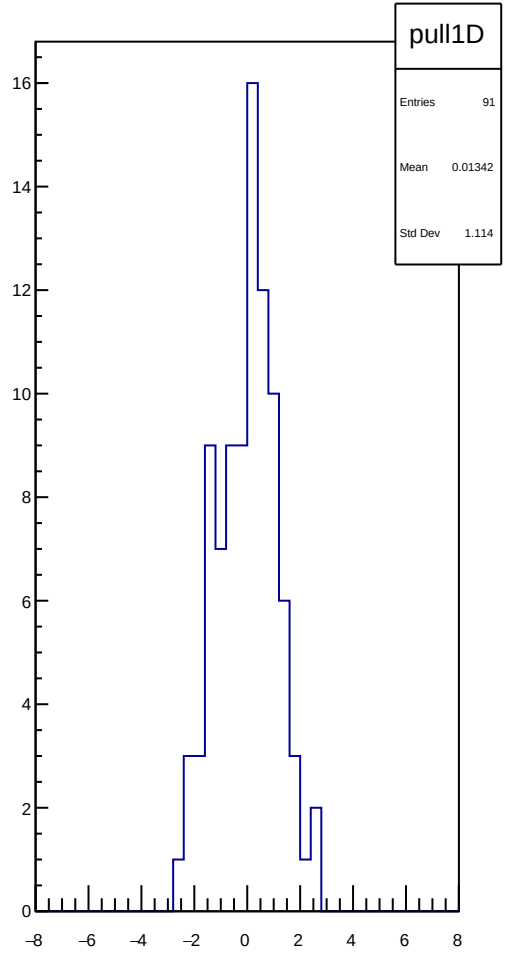

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2825 / 90
p0 1642 ± 1.243
1850
1800
1750
1700
1650
1600
1550
1500

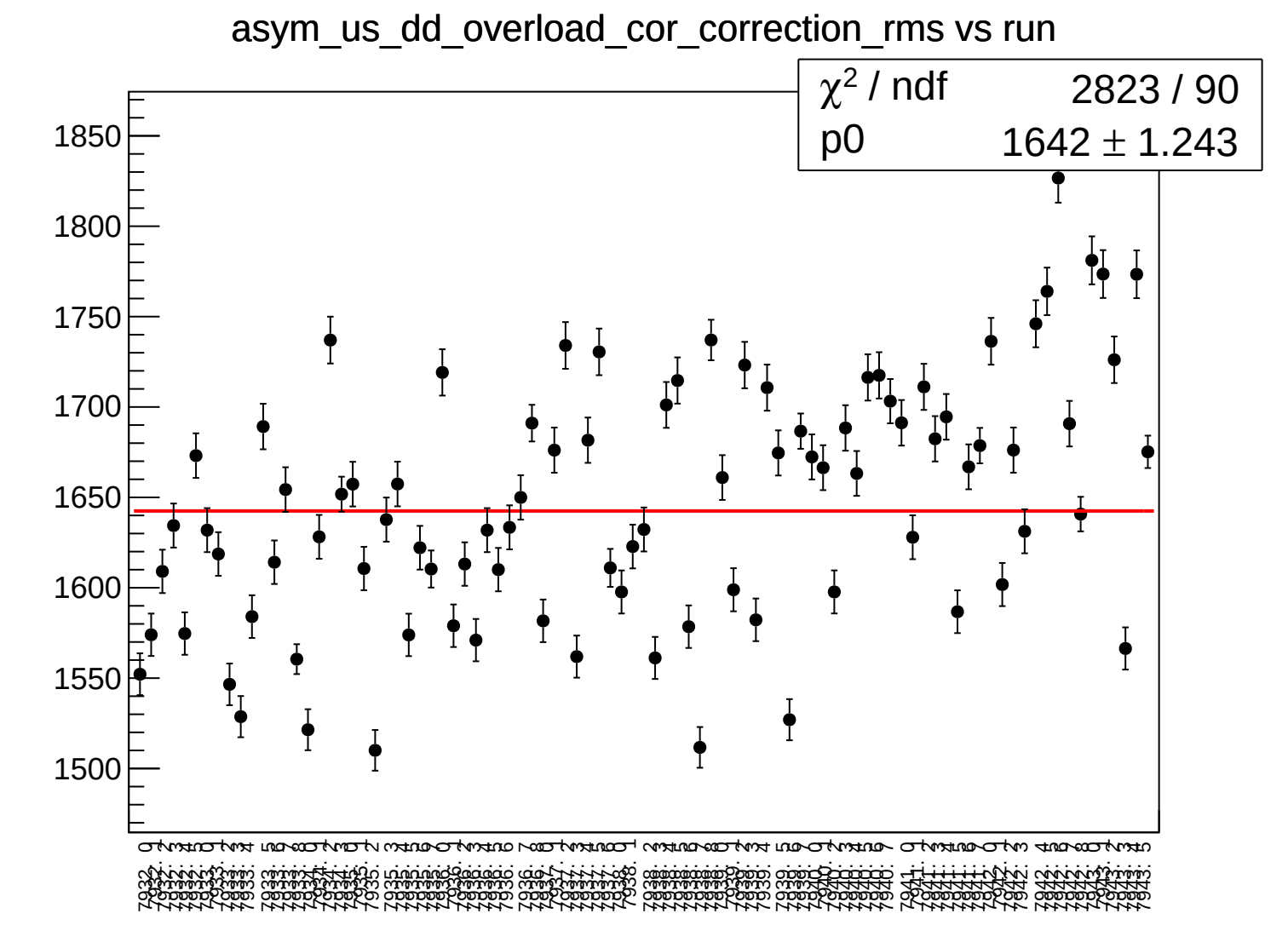

overload_cor_asym_us_dd_mean vs run
χ² / ndf 96.06 / 90
p0 −147.5 ± 817.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −244.6
Std Dev 0
2
1
0
−1
−2

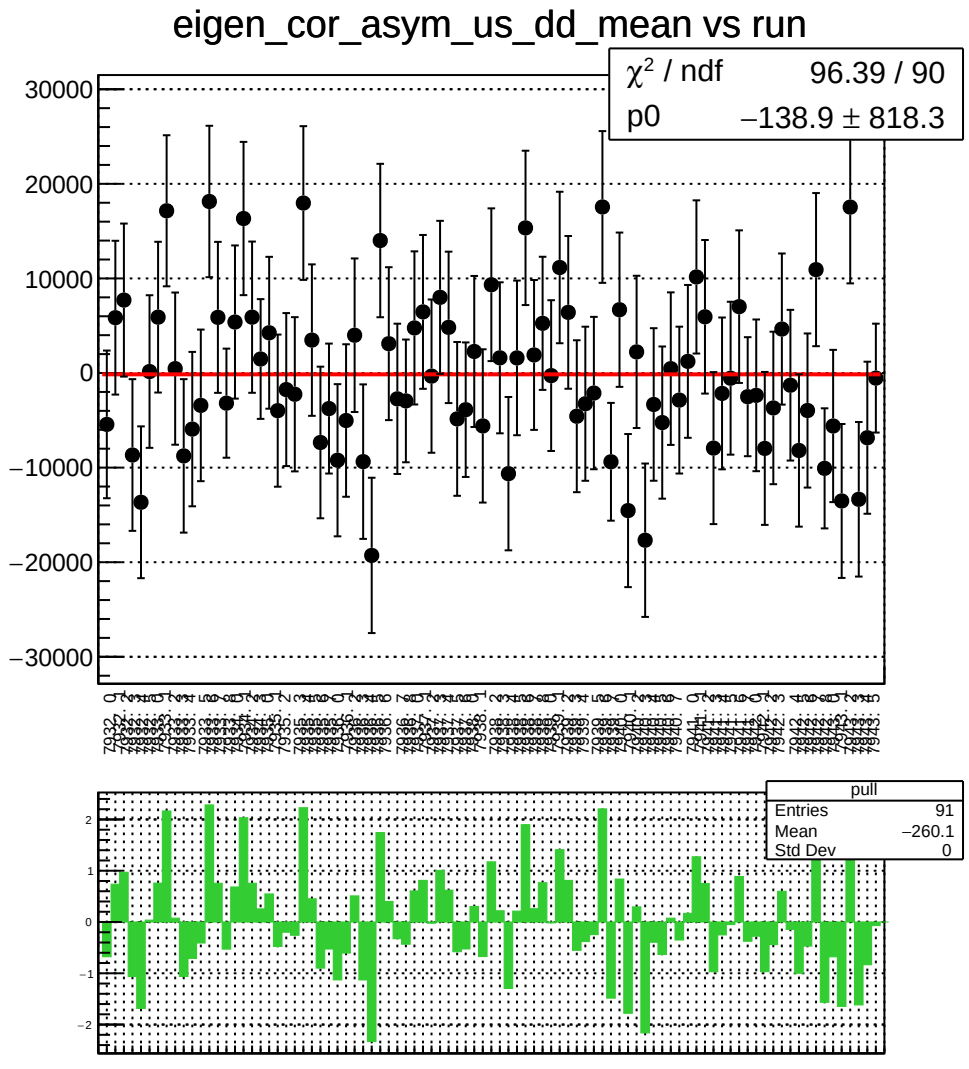

pull1D
Entries 91
Mean 0.0136
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

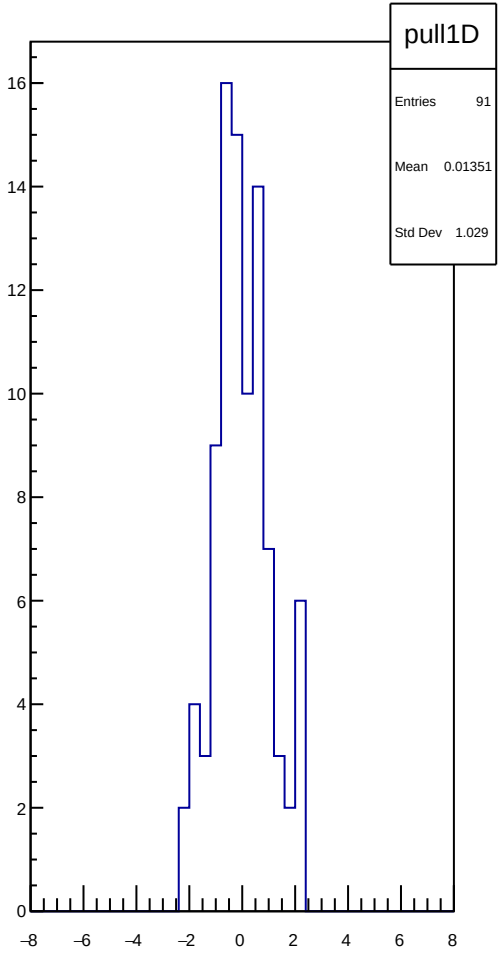

overload_cor_asym_us_dd_rms vs run
χ² / ndf 108.9 / 90
p0 764.5 ± 0.5782
780
770
760
750
740
730

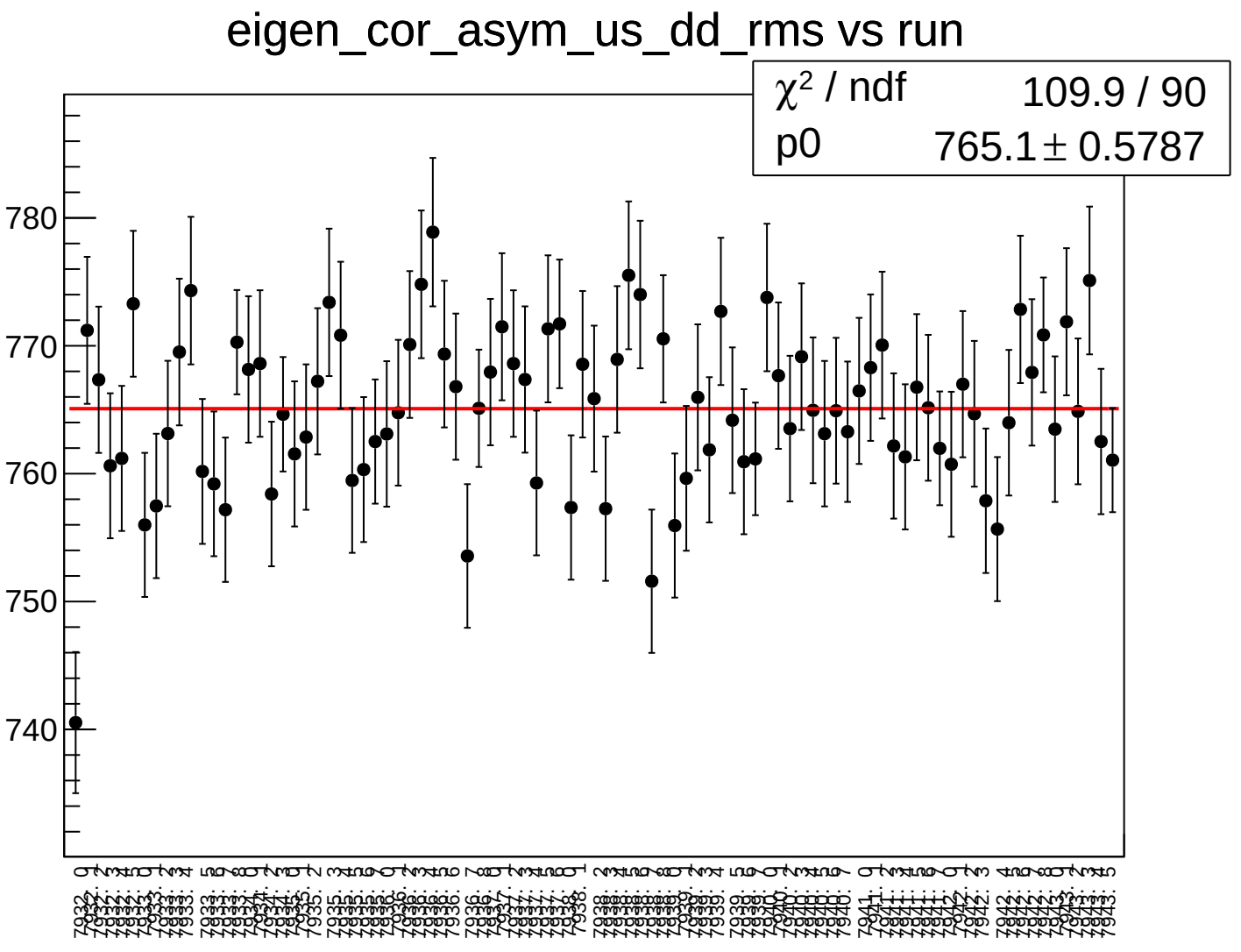

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 112.9 / 90
p0 −608.7 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −6.261
Std Dev 0
2
1
0
−1
−2

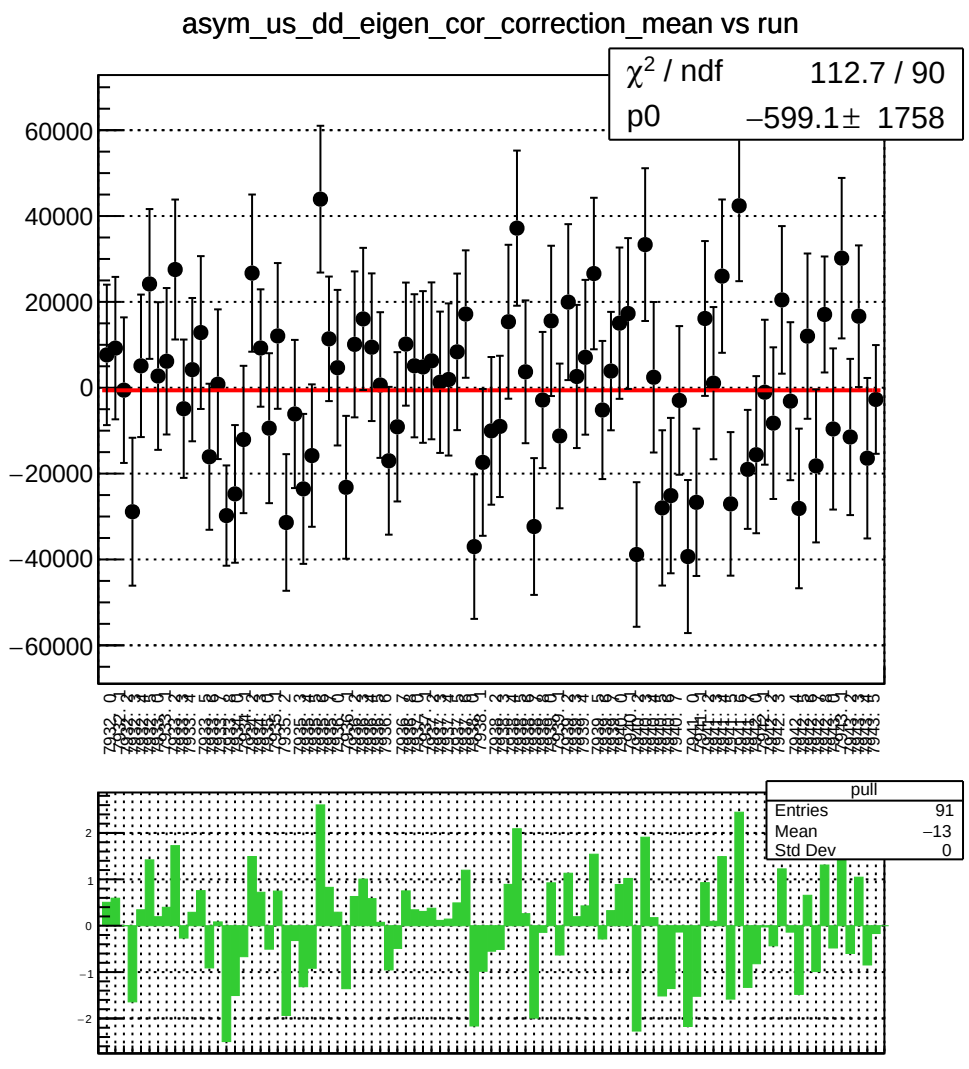

pull1D
Entries 91
Mean 0.01342
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

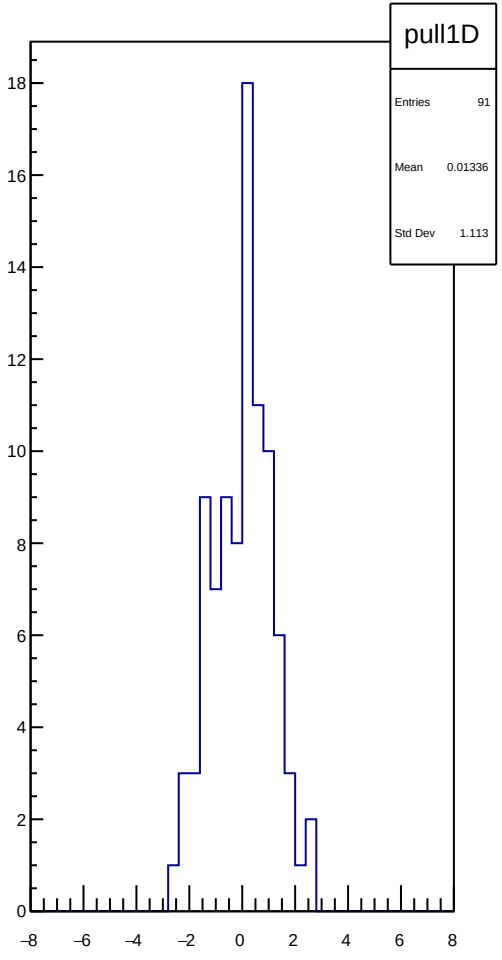

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2823 / 90
p0 1642 ± 1.243
1850
1800
1750
1700
1650
1600
1550
1500

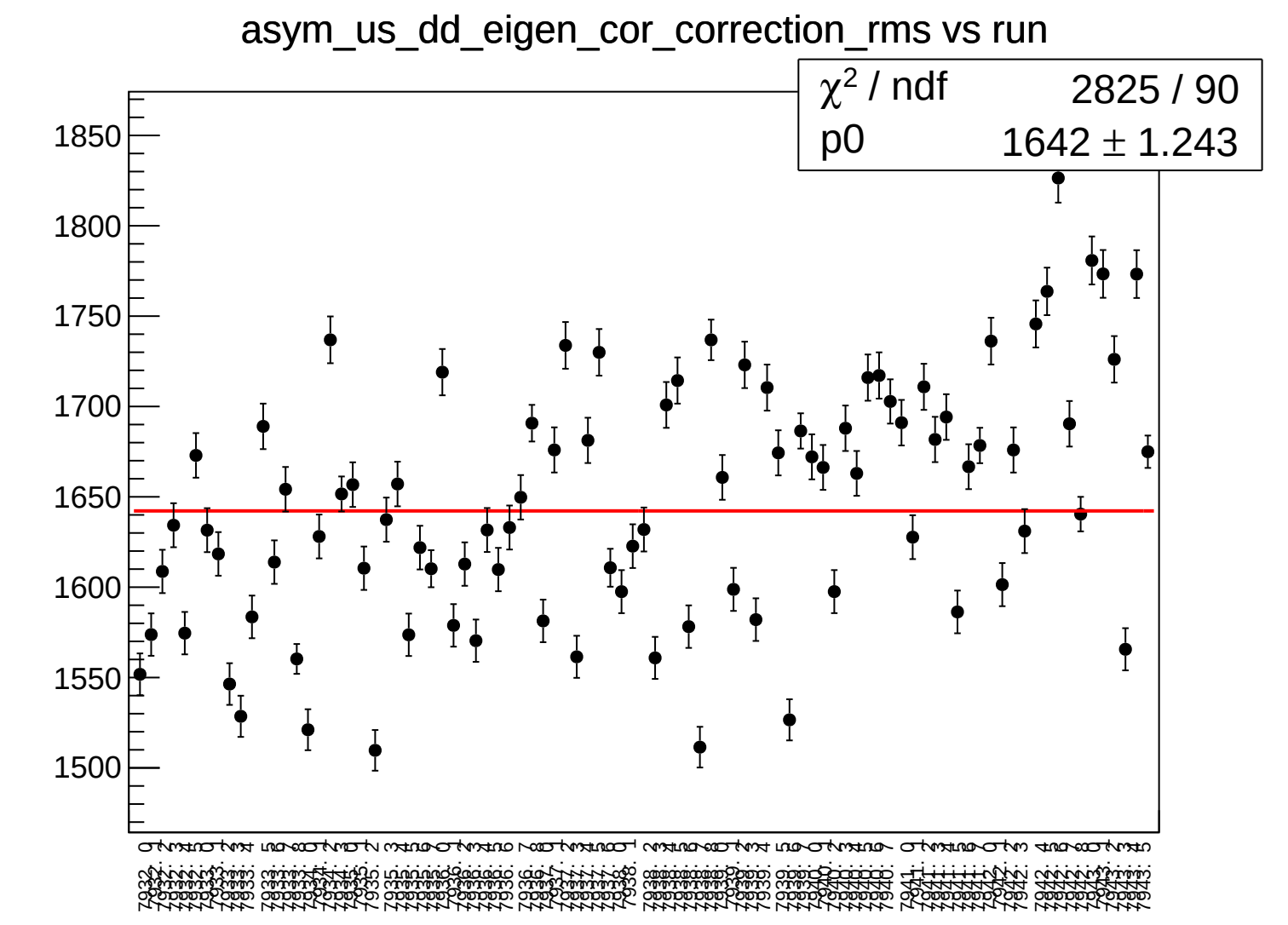

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 96.39 / 90
p0 −138.9 ± 818.3
pull
Entries 91
Mean −260.1
Std Dev 0

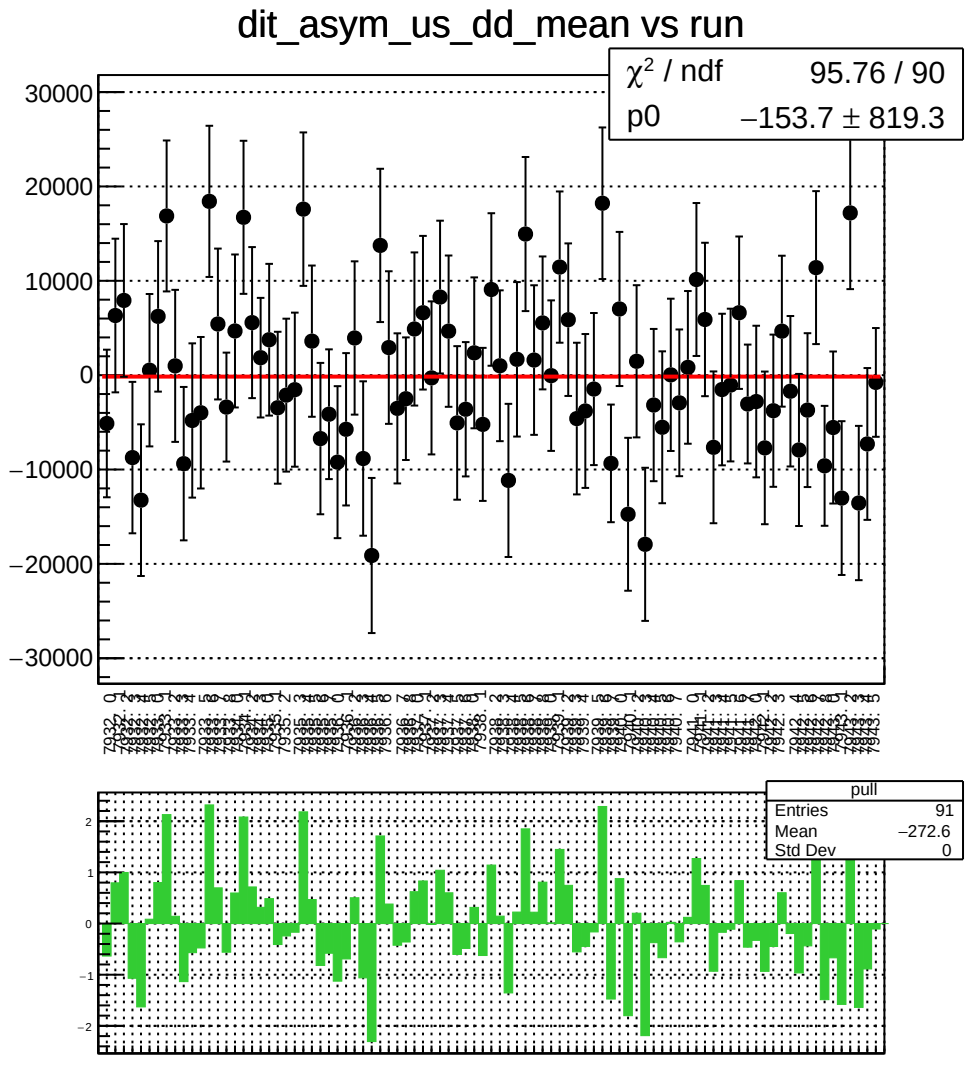

pull1D
Entries 91
Mean 0.01351
Std Dev 1.029

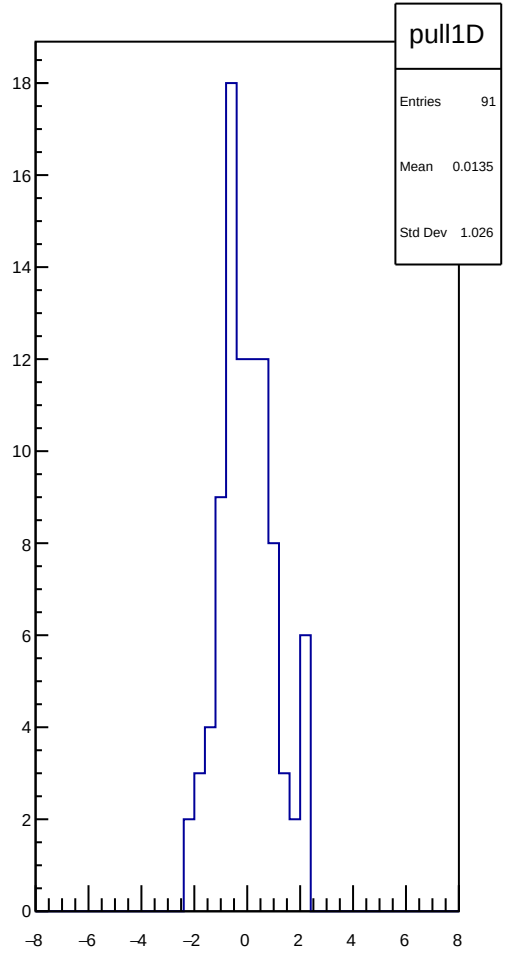

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 109.9 / 90
p0 765.1 ± 0.5787
780
770
760
750
740

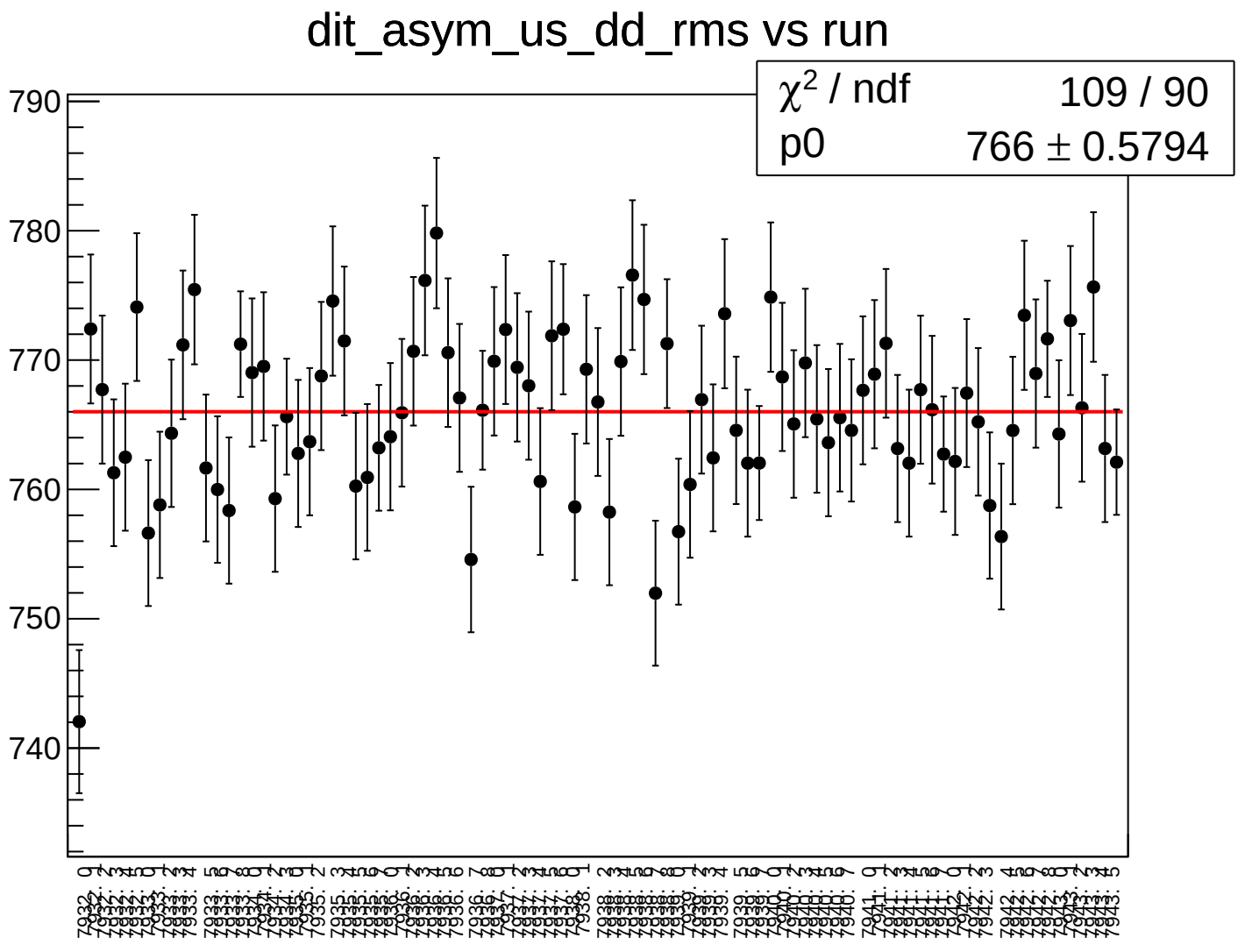

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.7 / 90
p0 −599.1± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −13
Std Dev 0
2
1
0
−1
−2

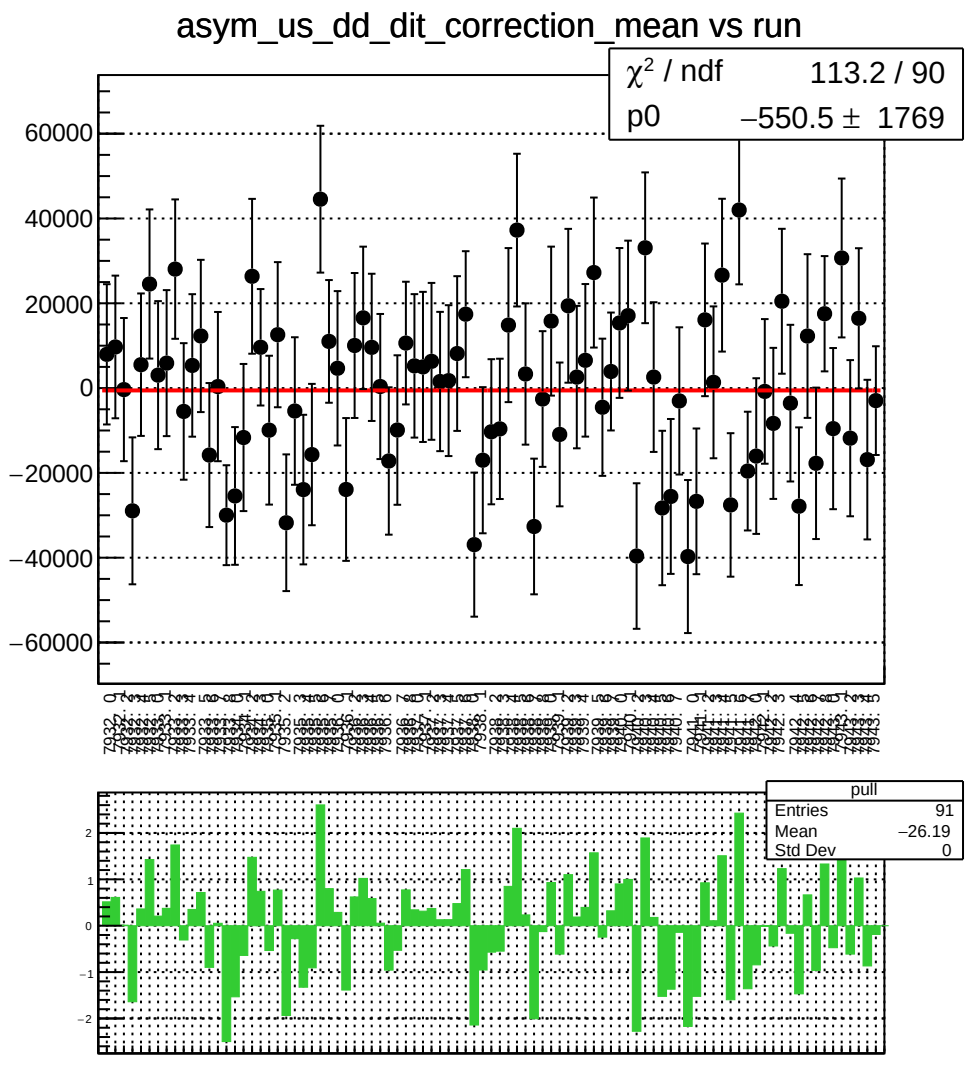

pull1D
Entries 91
Mean 0.01336
Std Dev 1.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

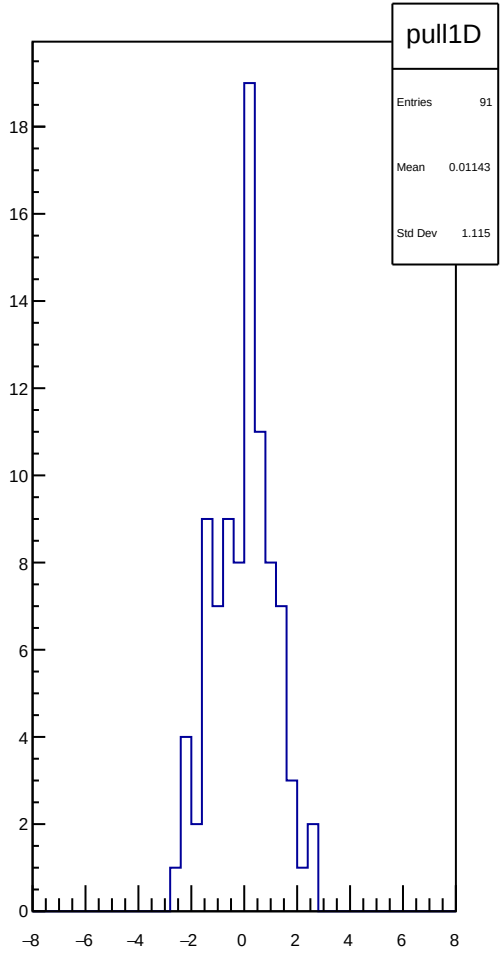

asym_us_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2825 / 90
p0 1642 ± 1.243
1850
1800
1750
1700
1650
1600
1550
1500

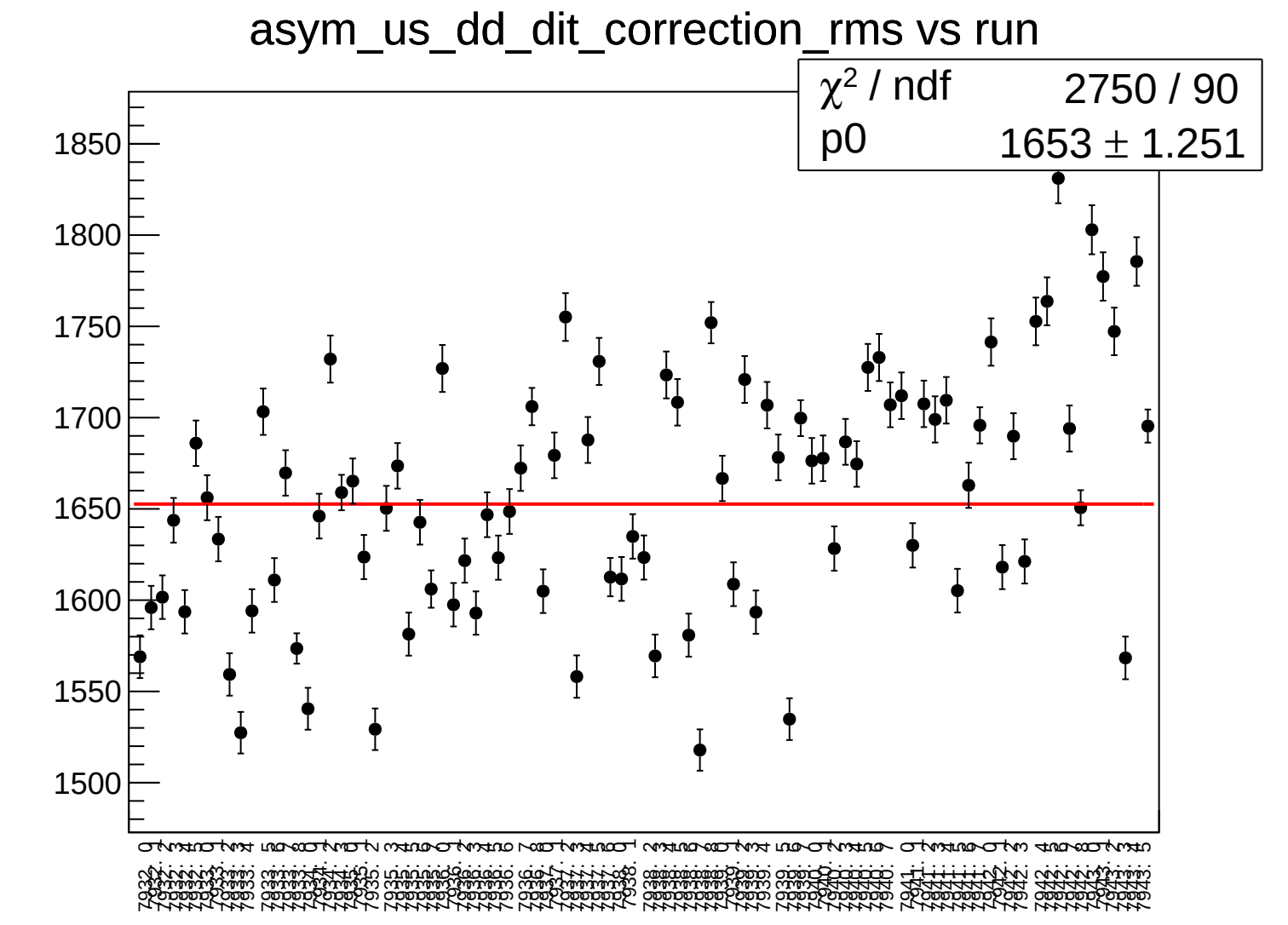

dit_asym_us_dd_mean vs run
χ² / ndf 95.76 / 90
p0 −153.7 ± 819.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −272.6
Std Dev 0
2
1
0
−1
−2

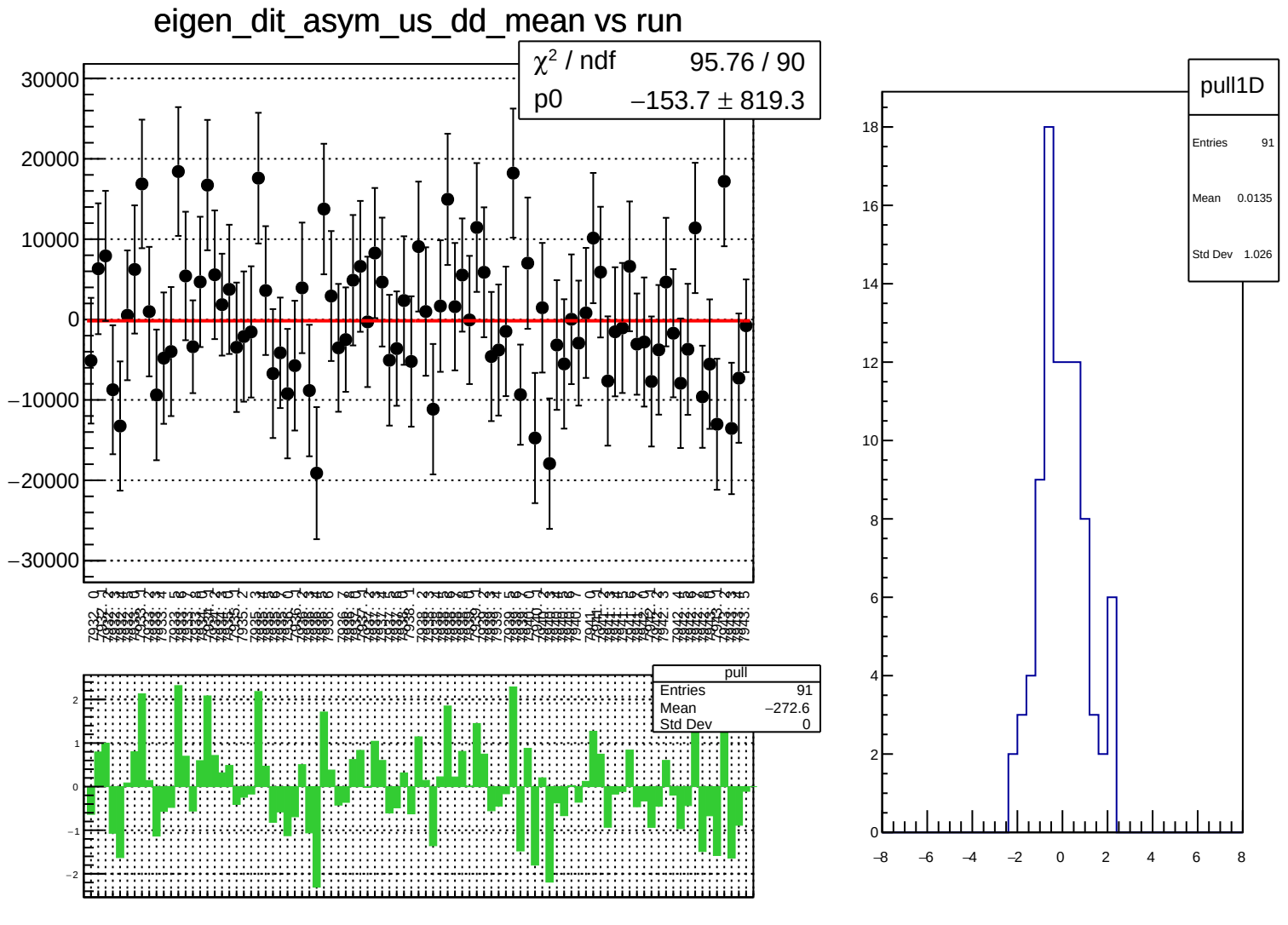

pull1D
Entries 91
Mean 0.0135
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

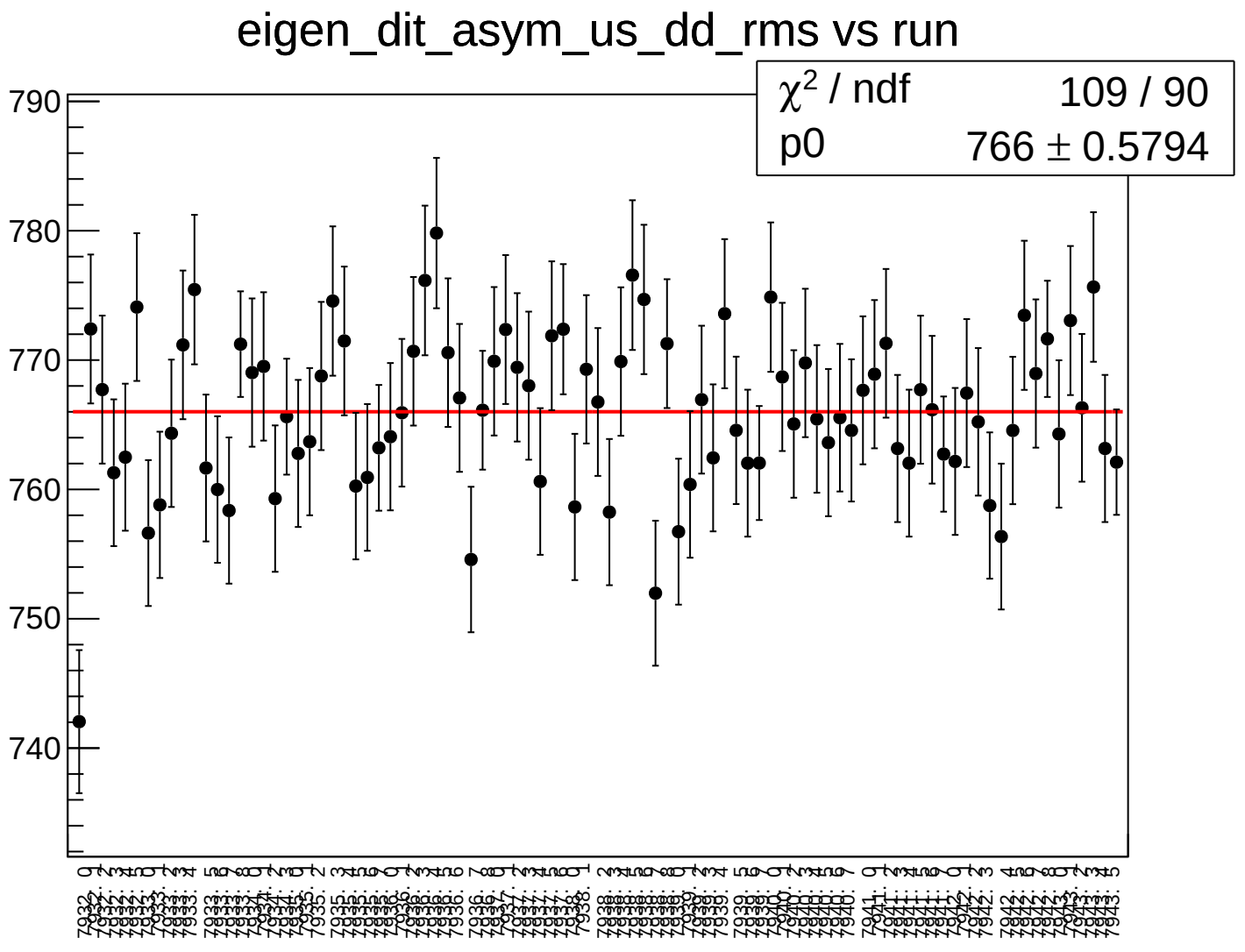

dit_asym_us_dd_rms vs run
χ^2 / ndf 109 / 90
p0 766 ± 0.5794
790
780
770
760
750
740

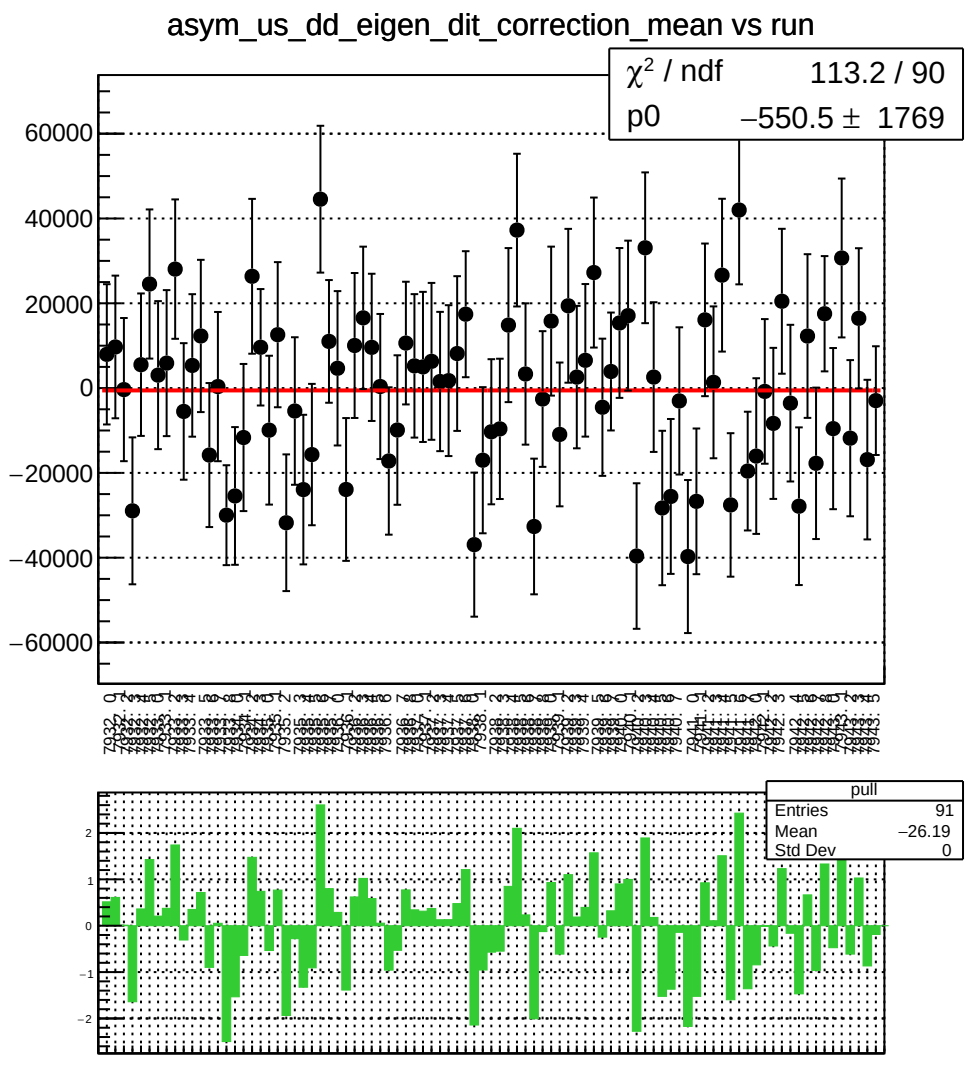

asym_us_dd_dit_correction_mean vs run
χ² / ndf 113.2 / 90
p0 −550.5 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −26.19
Std Dev 0
2
1
0
−1
−2

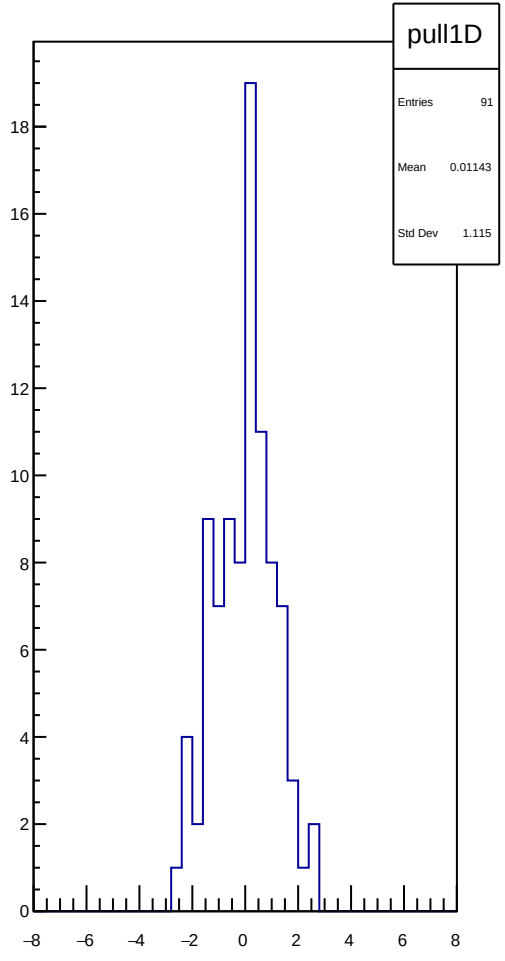

pull1D
Entries 91
Mean 0.01143
Std Dev 1.115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

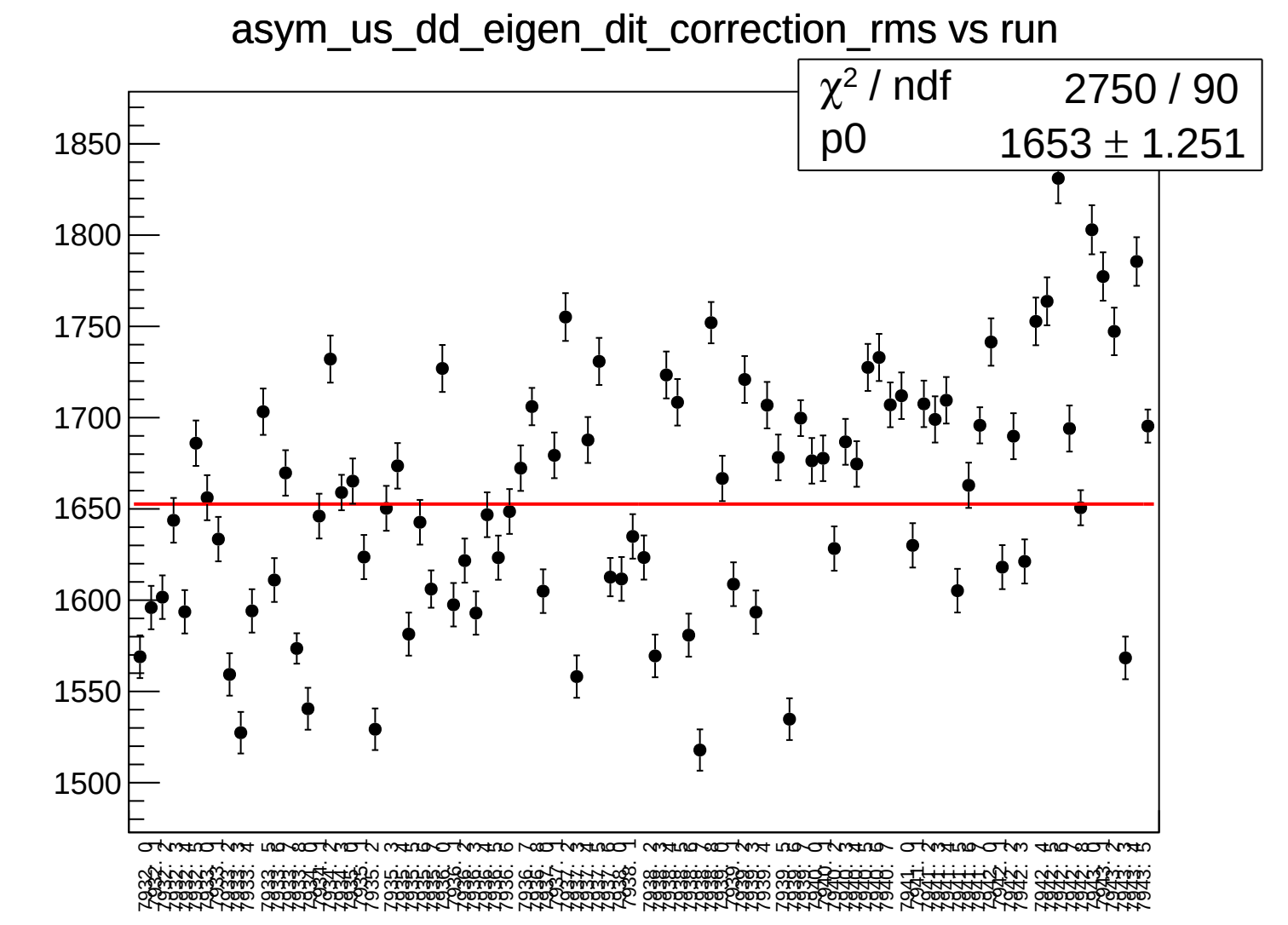

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2750 / 90
p0 1653 ± 1.251
1850
1800
1750
1700
1650
1600
1550
1500

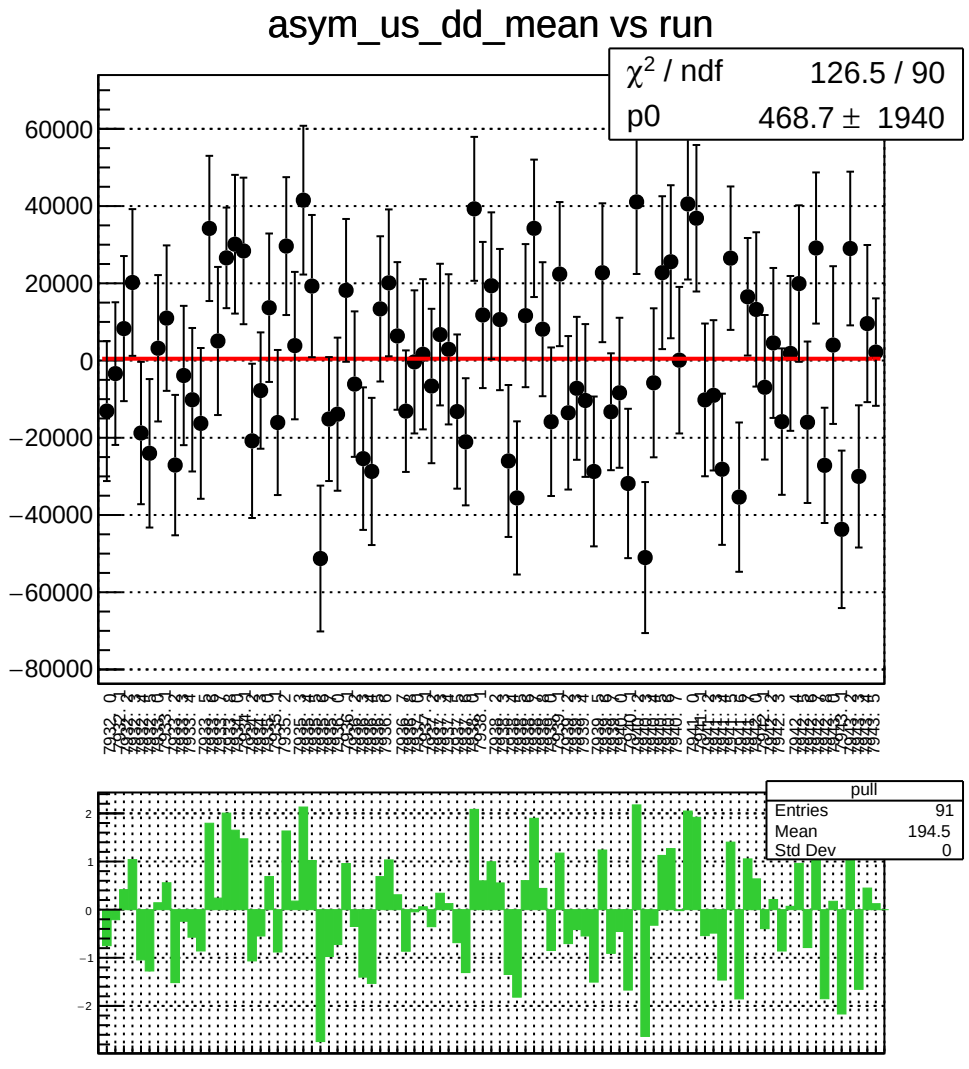

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 95.76 / 90
p0 −153.7 ± 819.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −272.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0135
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

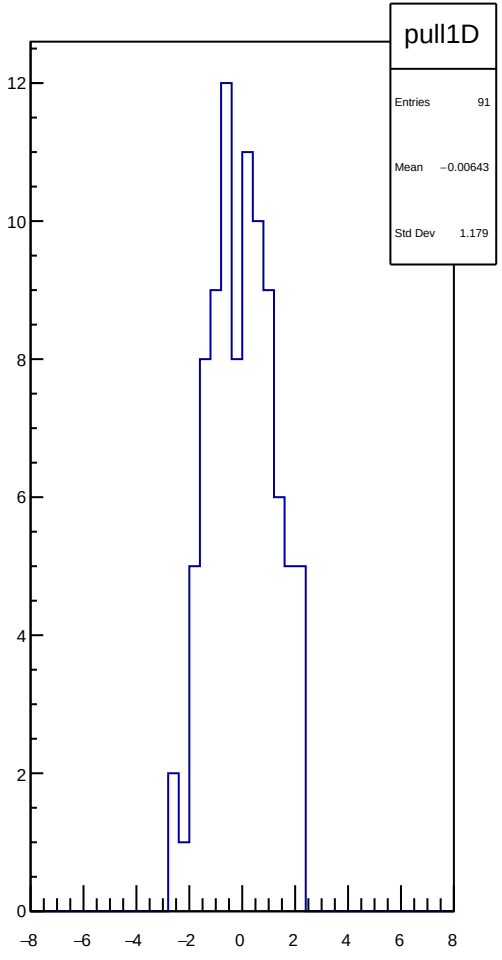

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 109 / 90
p0 766 ± 0.5794
790
780
770
760
750
740

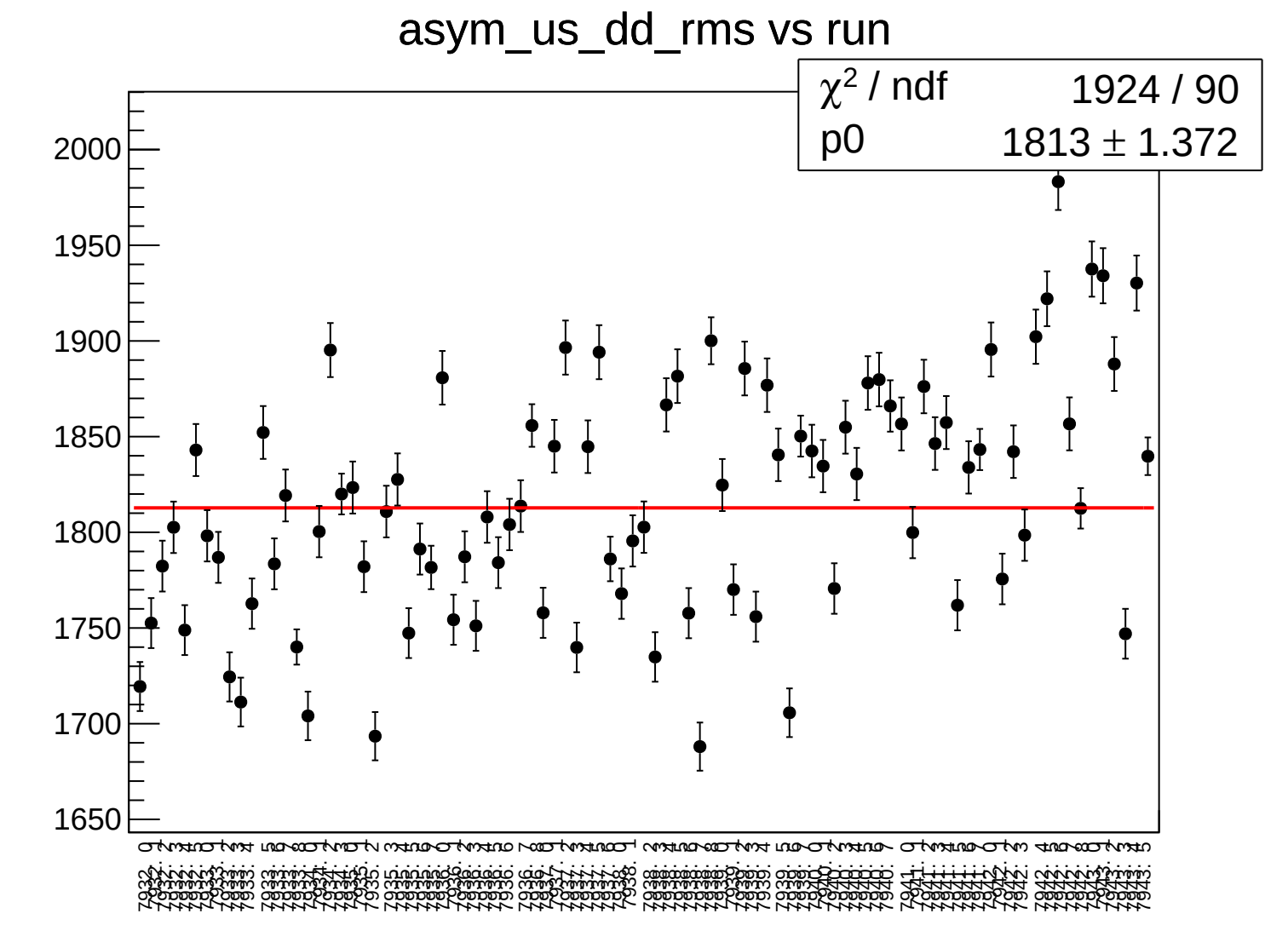

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.2 / 90
p0 −550.5 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −26.19
Std Dev 0
2
1
0
−1
−2

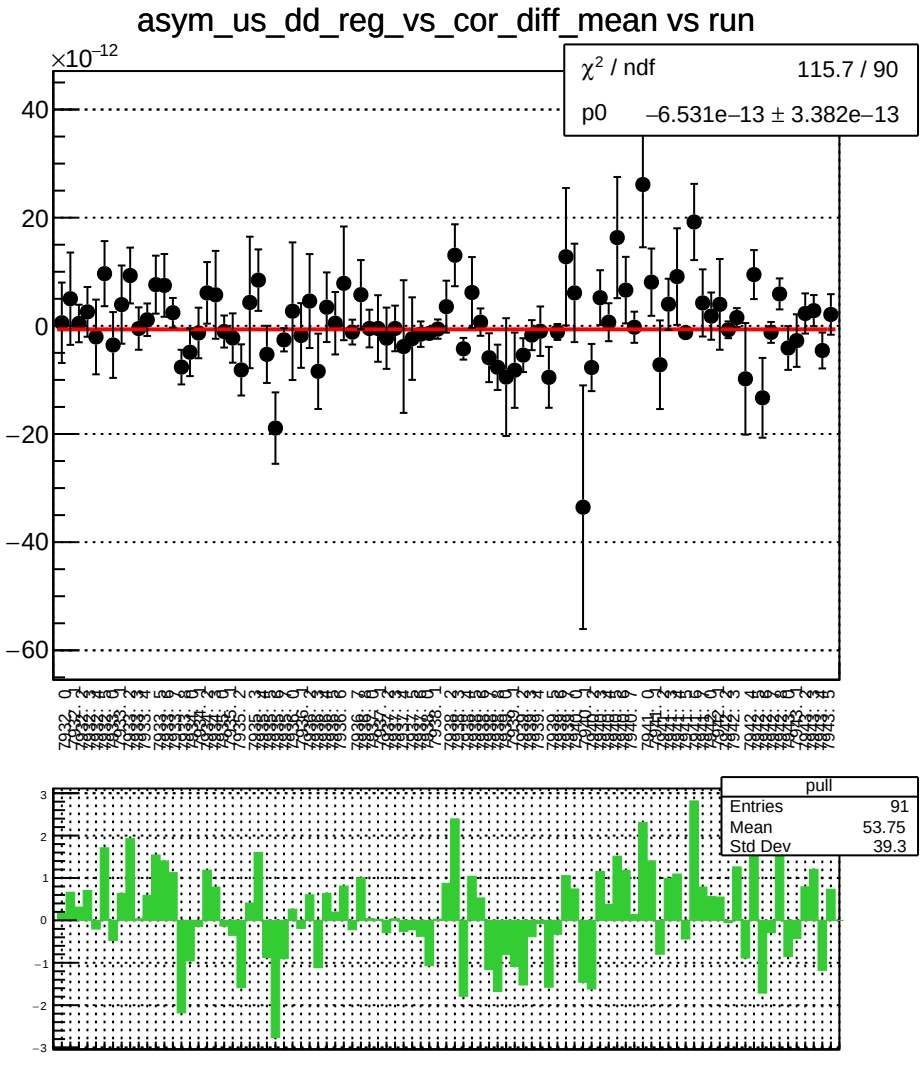

pull1D
Entries 91
Mean 0.01143
Std Dev 1.115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

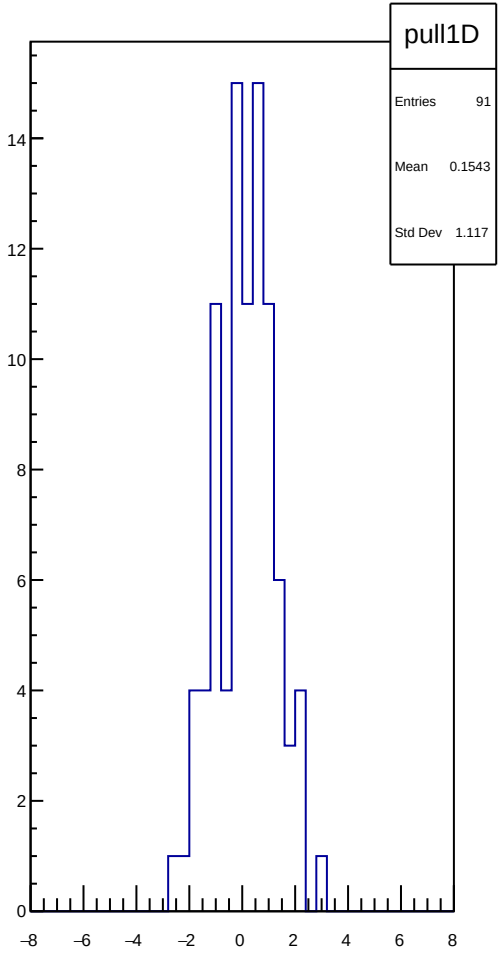

asym_us_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2750 / 90
p0 1653 ± 1.251
1850
1800
1750
1700
1650
1600
1550
1500

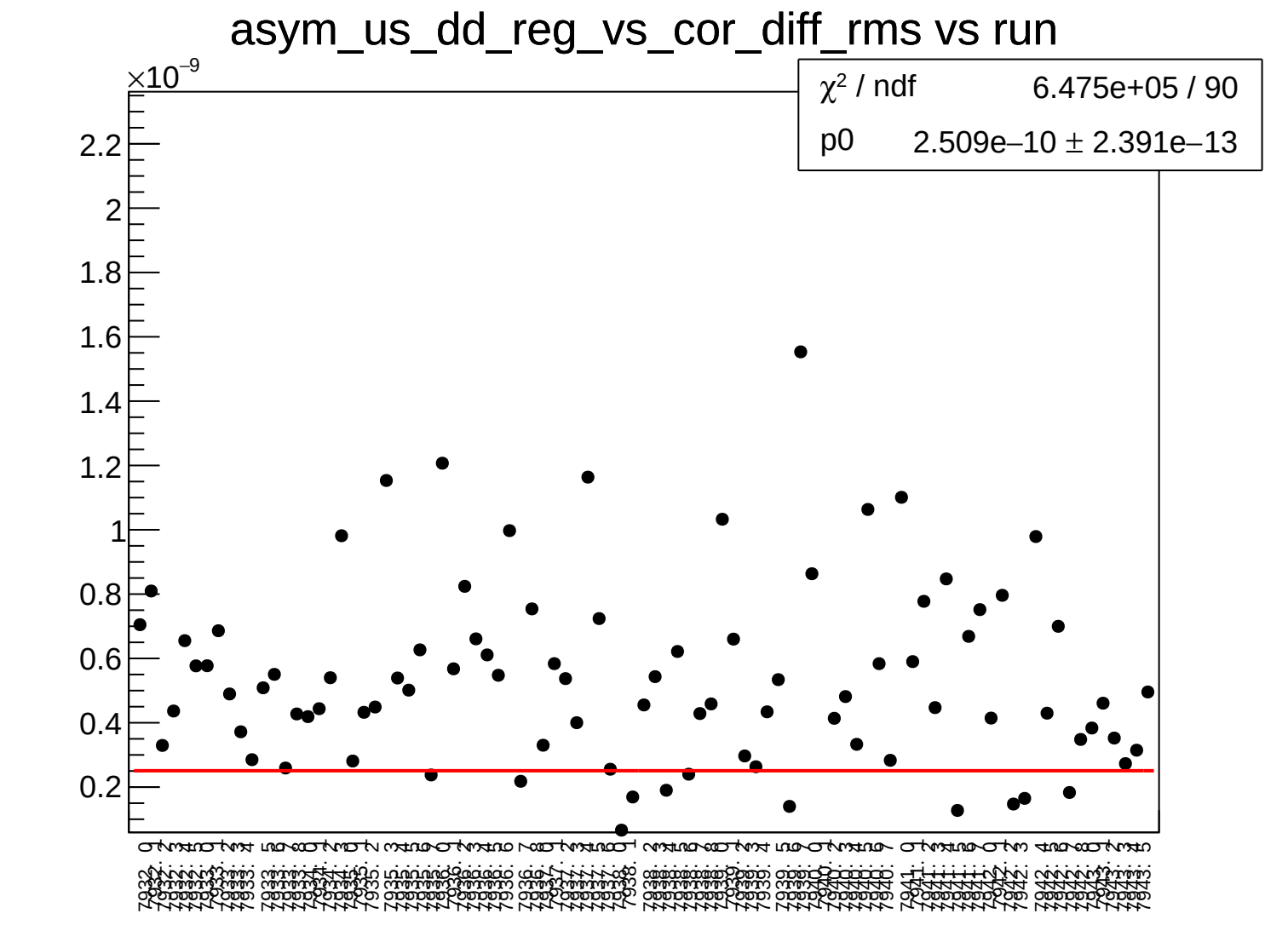

asym_us_dd_mean vs run
χ^2 / ndf 126.5 / 90
p0 468.7 ± 1940
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 194.5
Std Dev 0
2
1
0
−1
−2

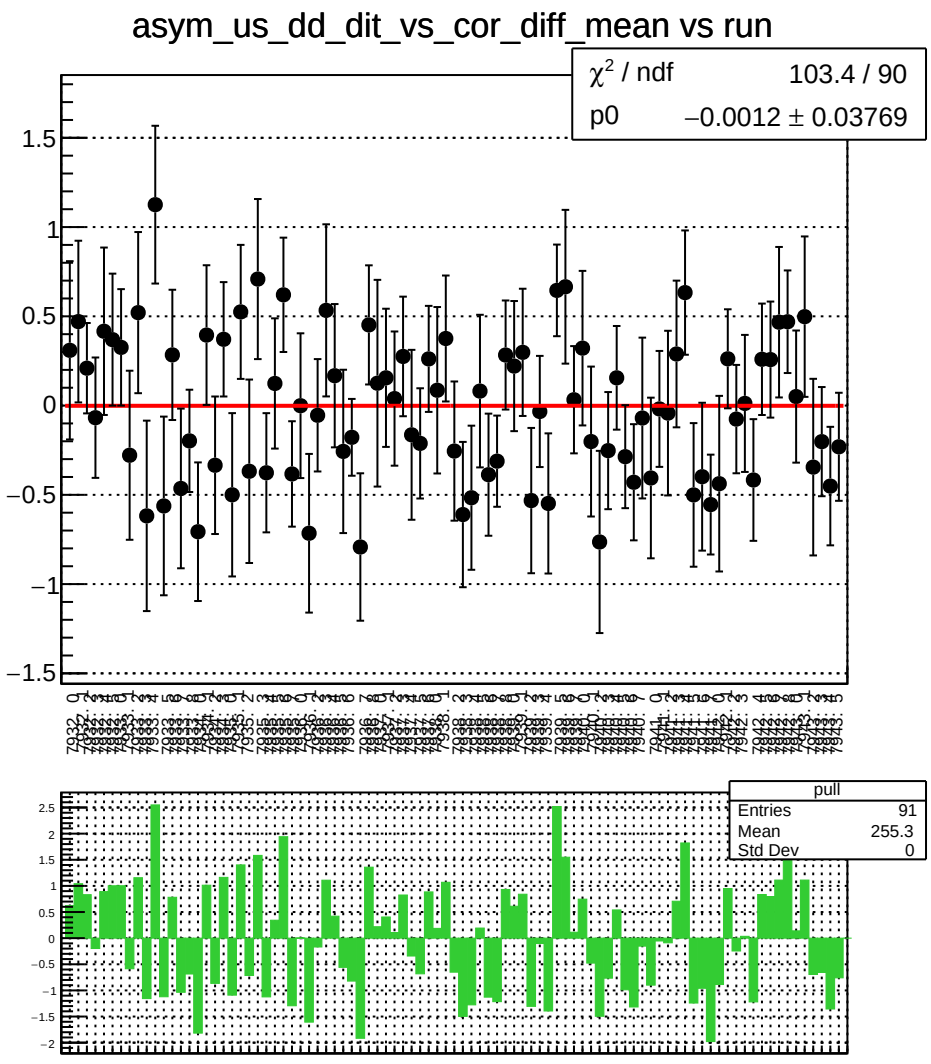

pull1D
Entries 91
Mean −0.00643
Std Dev 1.179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

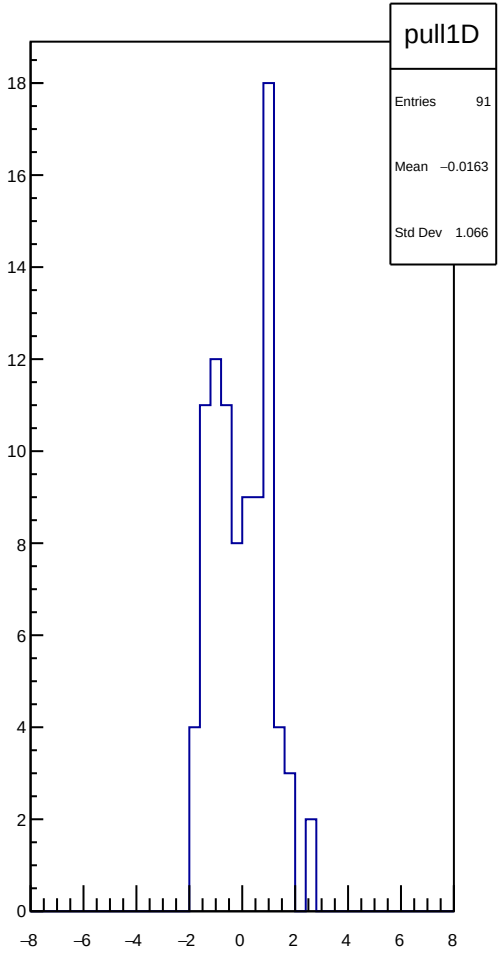

asym_us_dd_rms vs run
χ² / ndf 1924 / 90
p0 1813 ± 1.372
2000
1950
1900
1850
1800
1750
1700
1650

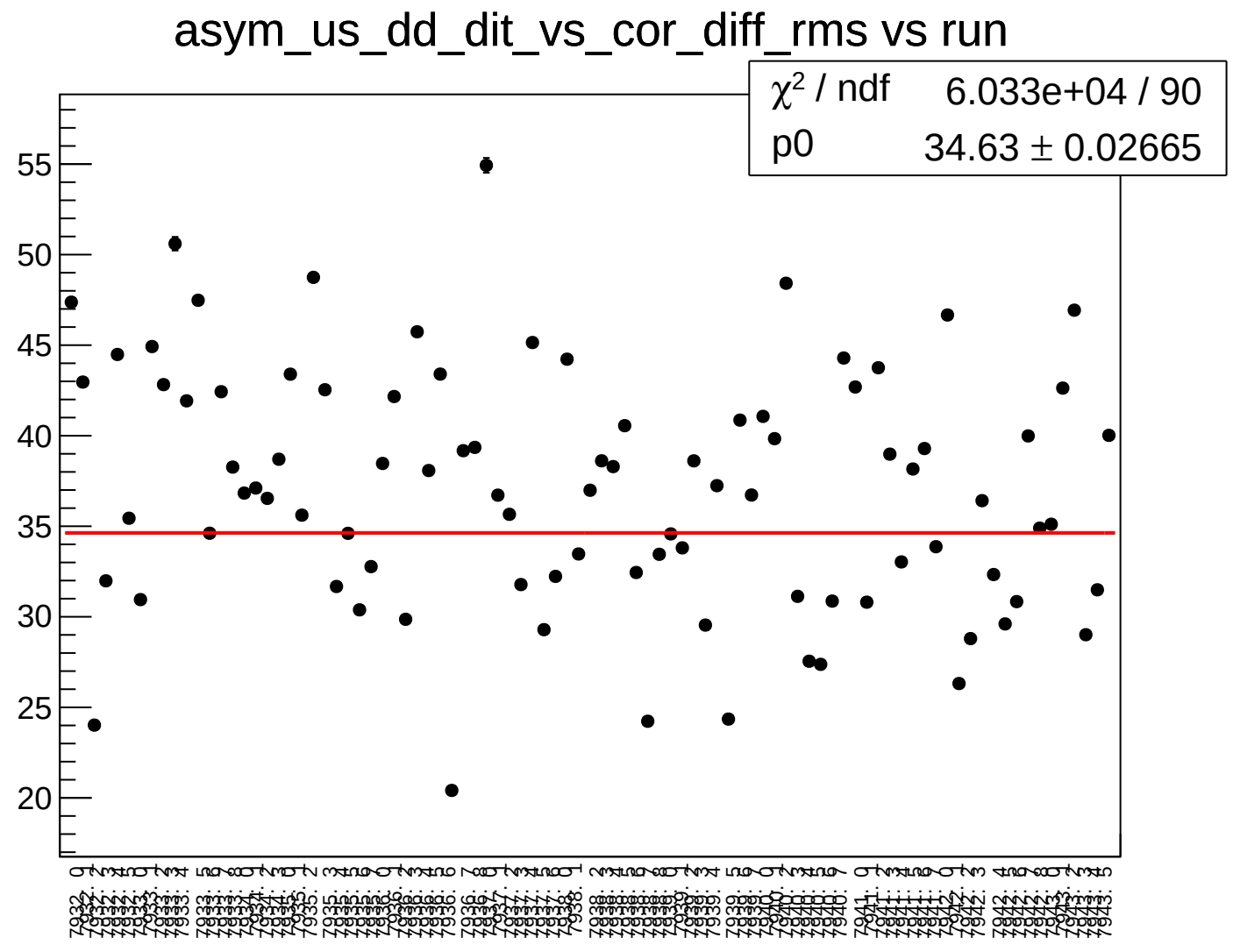

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.7 / 90
p0 −6.531e−13 ± 3.382e−13
pull
Entries 91
Mean 53.75
Std Dev 39.3

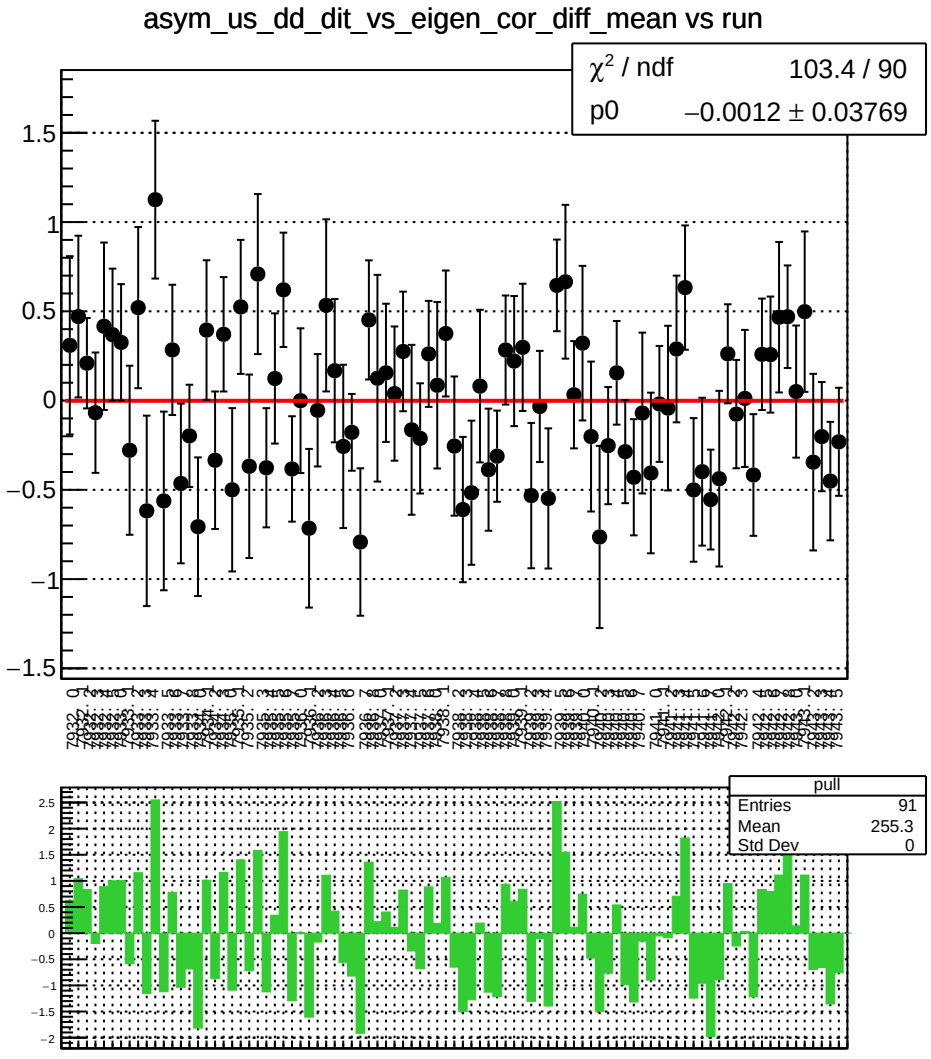

pull1D
Entries 91
Mean 0.1543
Std Dev 1.117

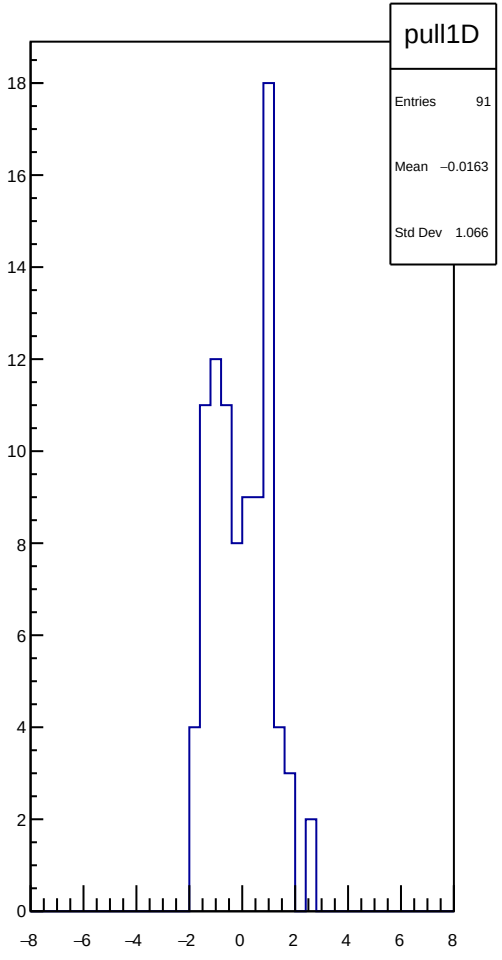

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.475e+05 / 90
p0 2.509e−10 ± 2.391e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

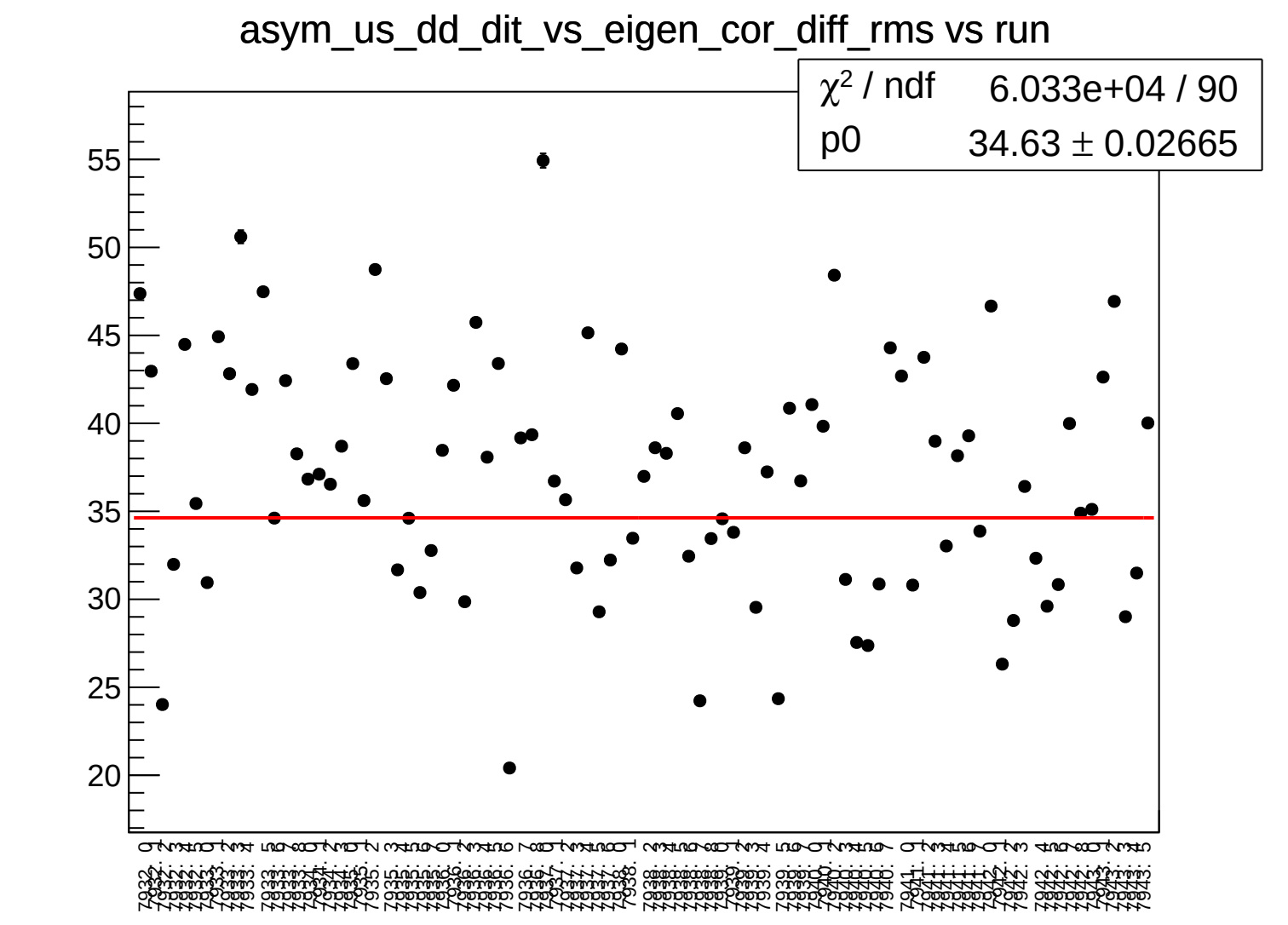

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 90
p0 −0.0012 ± 0.03769
pull
Entries 91
Mean 255.3
Std Dev 0

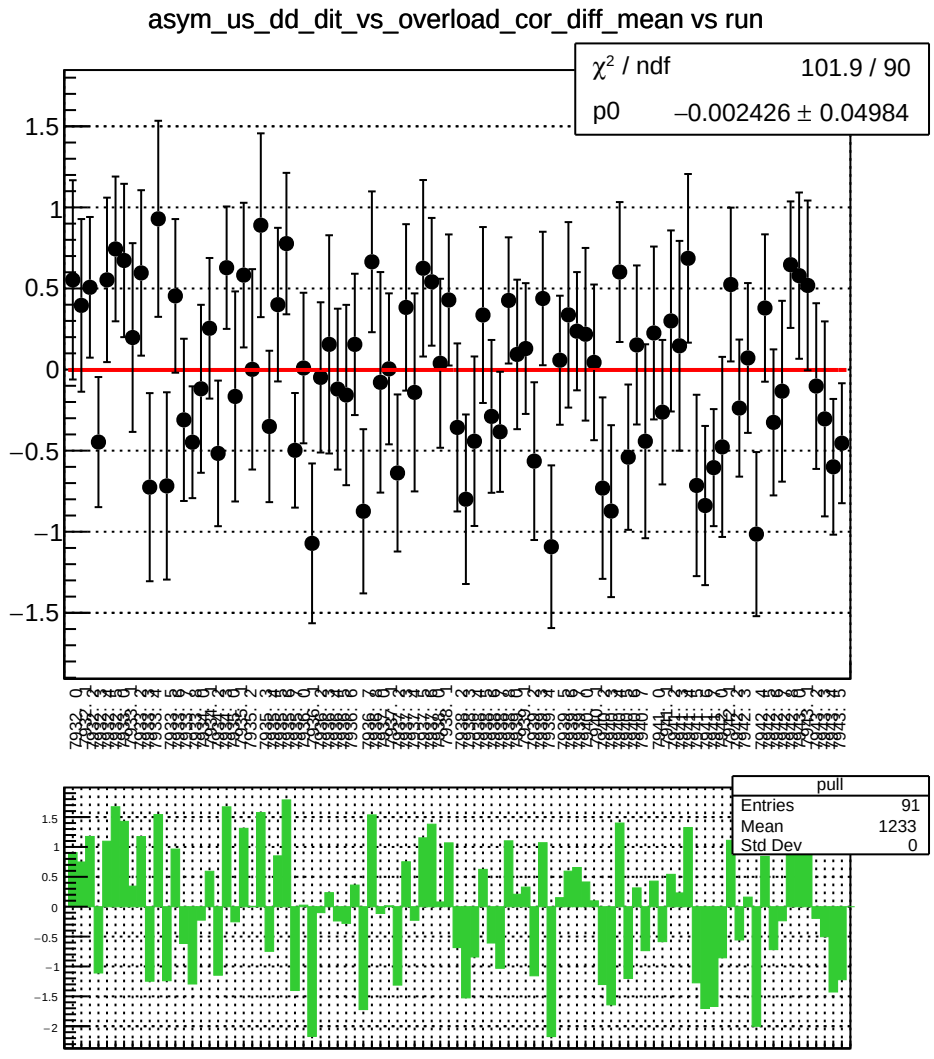

pull1D
Entries 91
Mean −0.0163
Std Dev 1.066

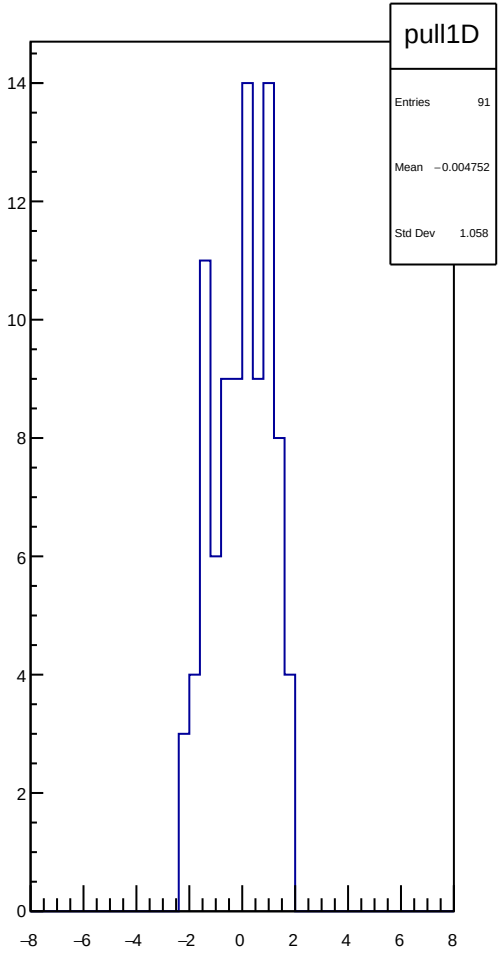

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.033e+04 / 90
p0 34.63 ± 0.02665
55
50
45
40
35
30
25
20

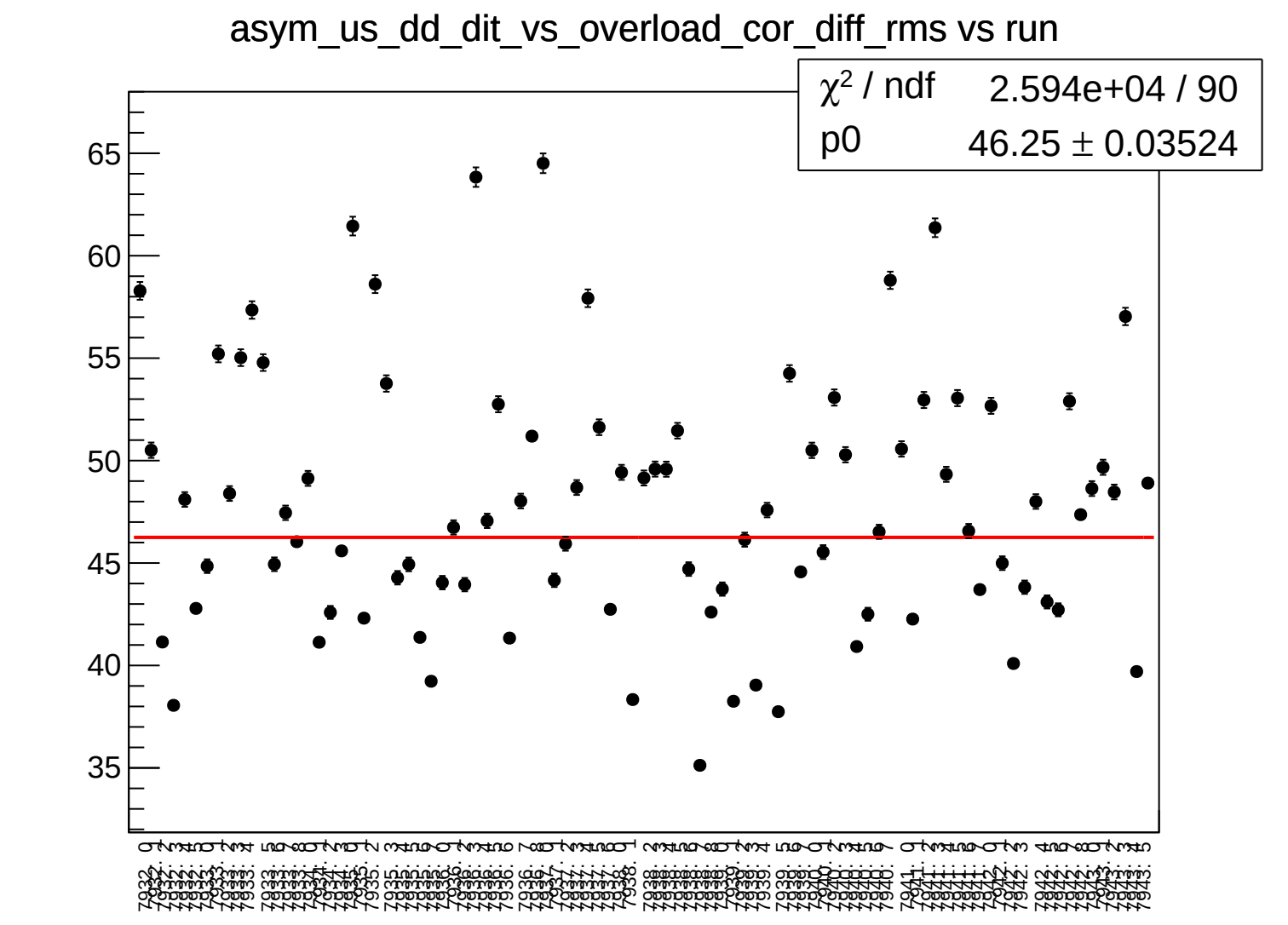

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 90
p0 −0.0012 ± 0.03769
pull
Entries 91
Mean 255.3
Std Dev 0

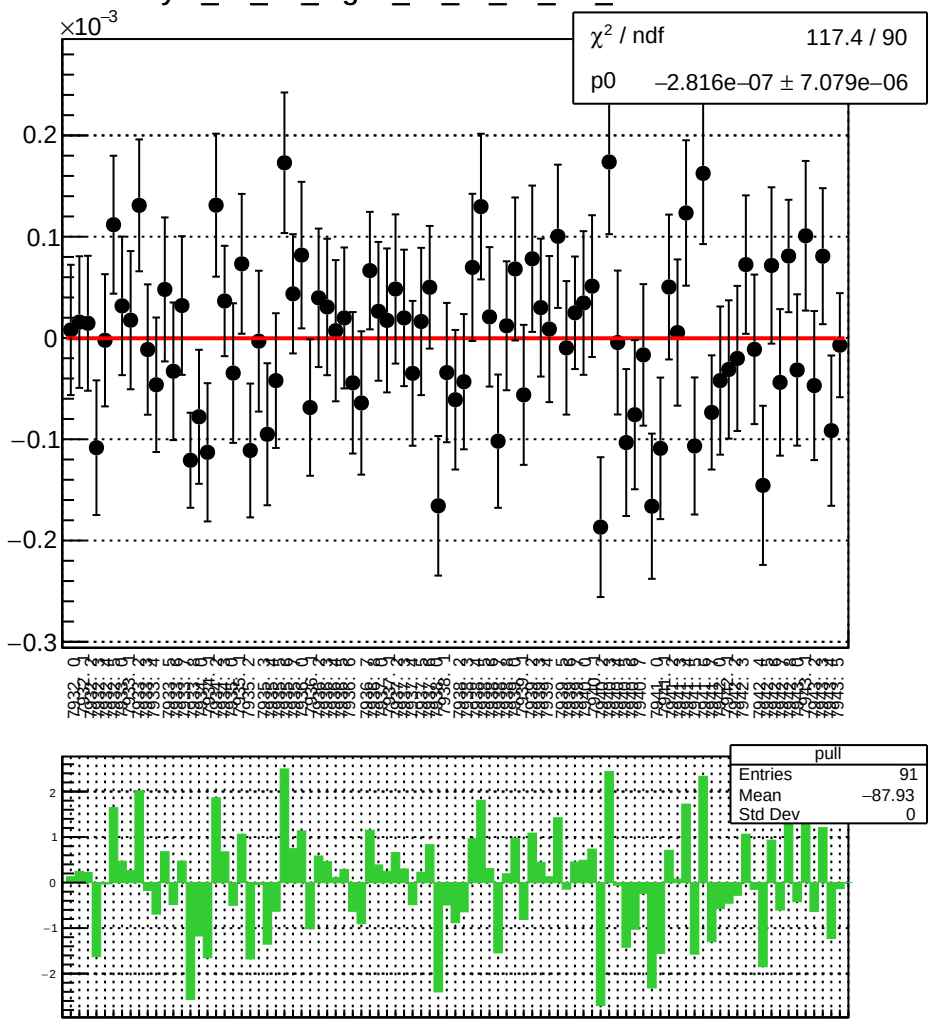

pull1D
Entries 91
Mean −0.0163
Std Dev 1.066

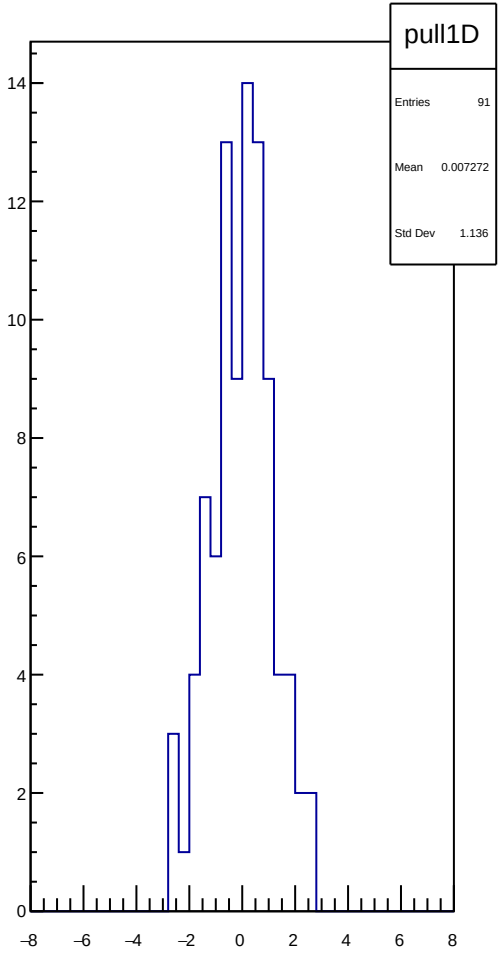

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.033e+04 / 90
p0 34.63 ± 0.02665
55
50
45
40
35
30
25
20

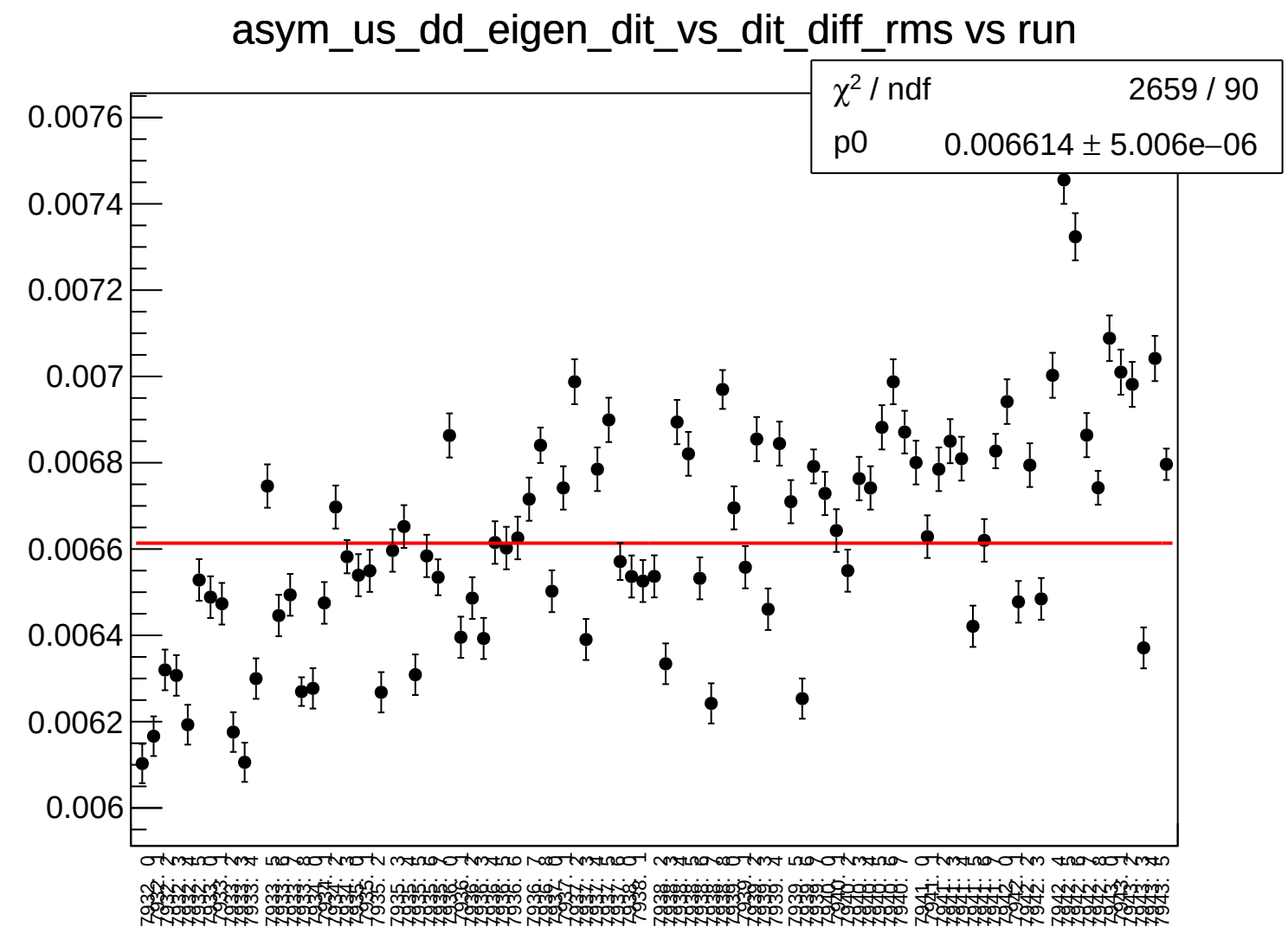

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 101.9 / 90
p0 −0.002426 ± 0.04984
pull
Entries 91
Mean 1233
Std Dev 0

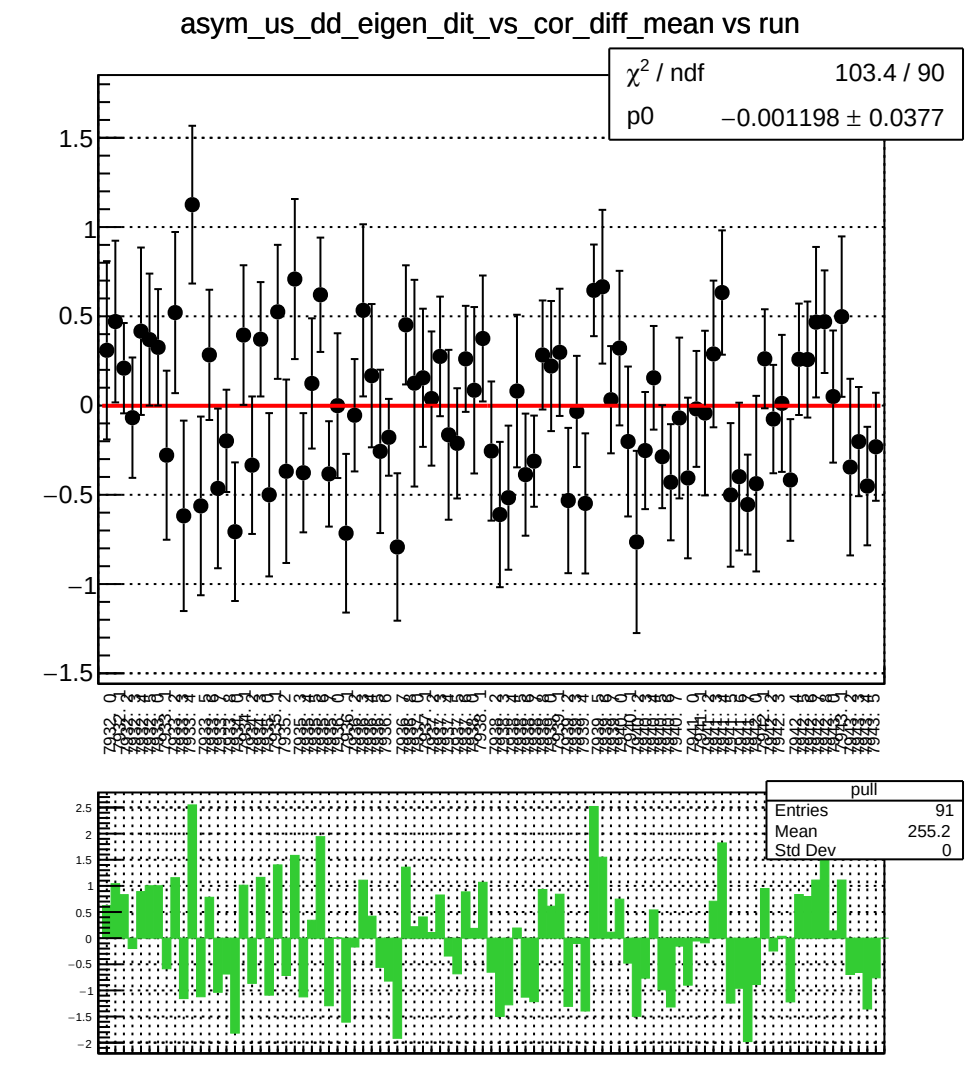

pull1D
Entries 91
Mean −0.004752
Std Dev 1.058

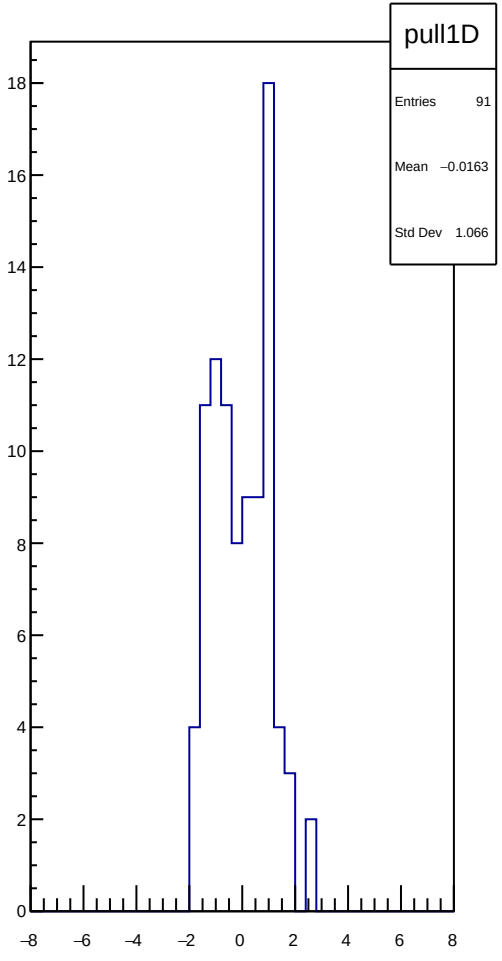

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 90
p0 46.25 ± 0.03524
65
60
55
50
45
40
35

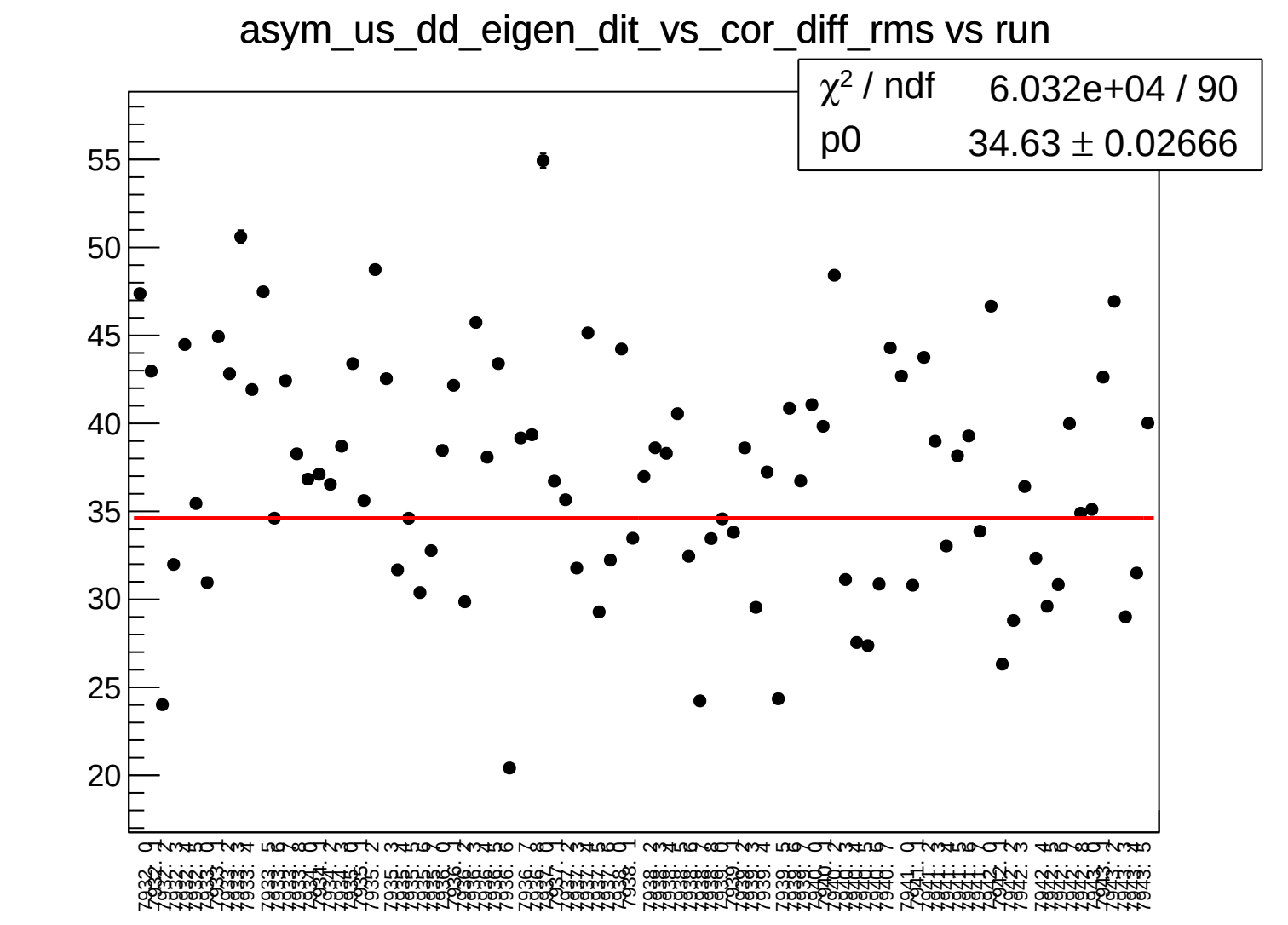

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.4 / 90
p0 −2.816e−07 ± 7.079e−06
pull
Entries 91
Mean −87.93
Std Dev 0

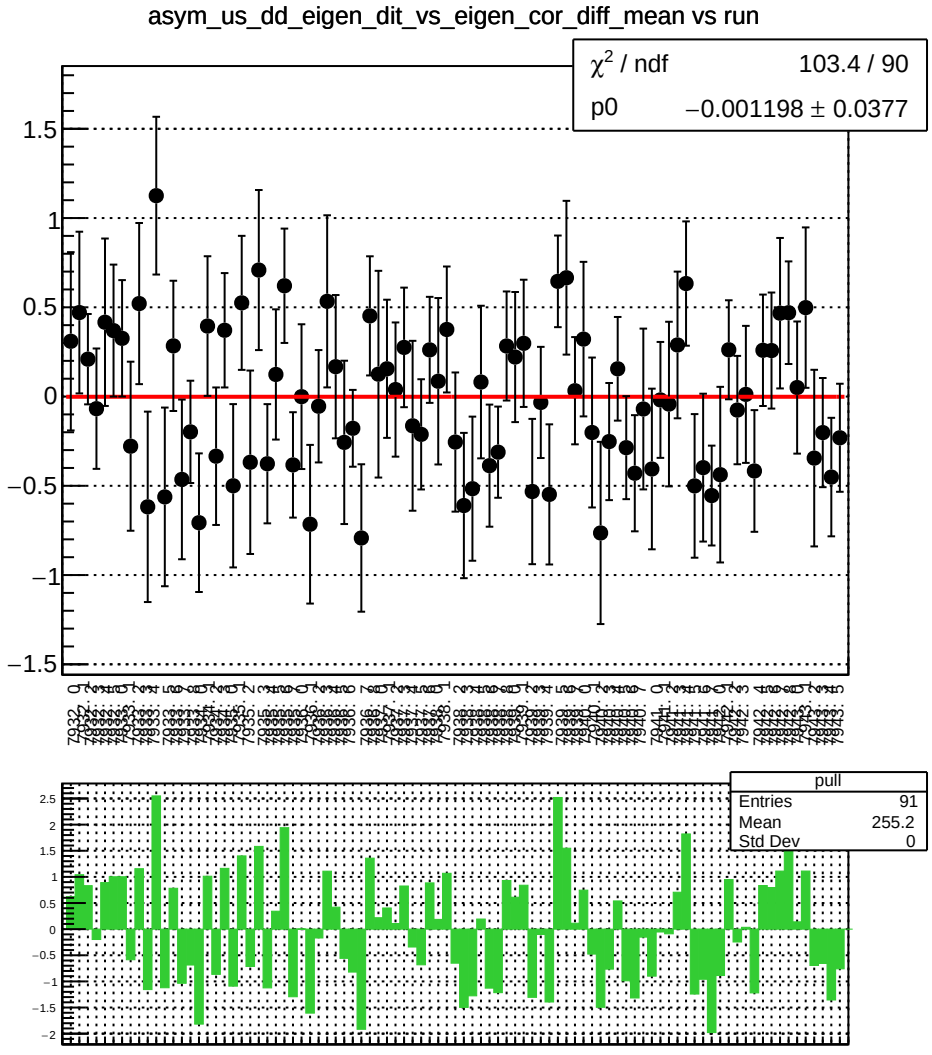

pull1D
Entries 91
Mean 0.007272
Std Dev 1.136

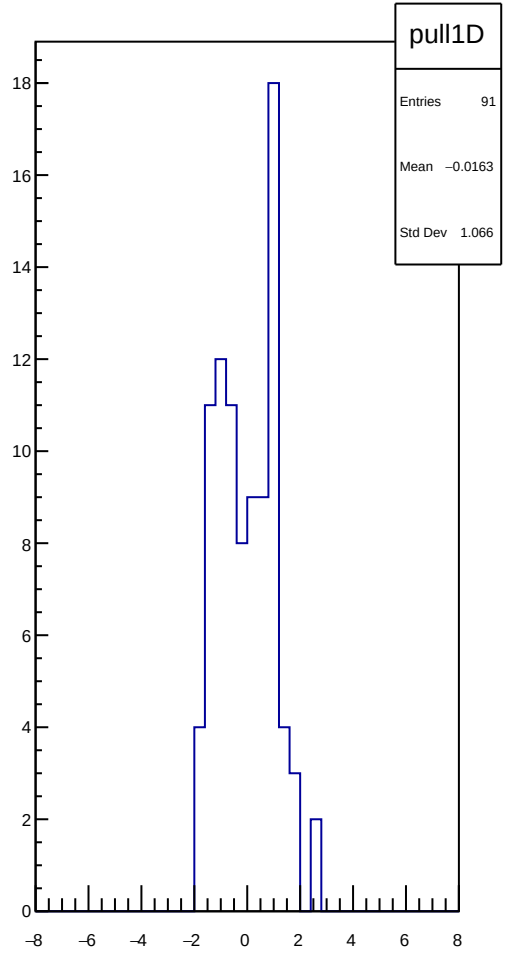

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2659 / 90
p0 0.006614 ± 5.006e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

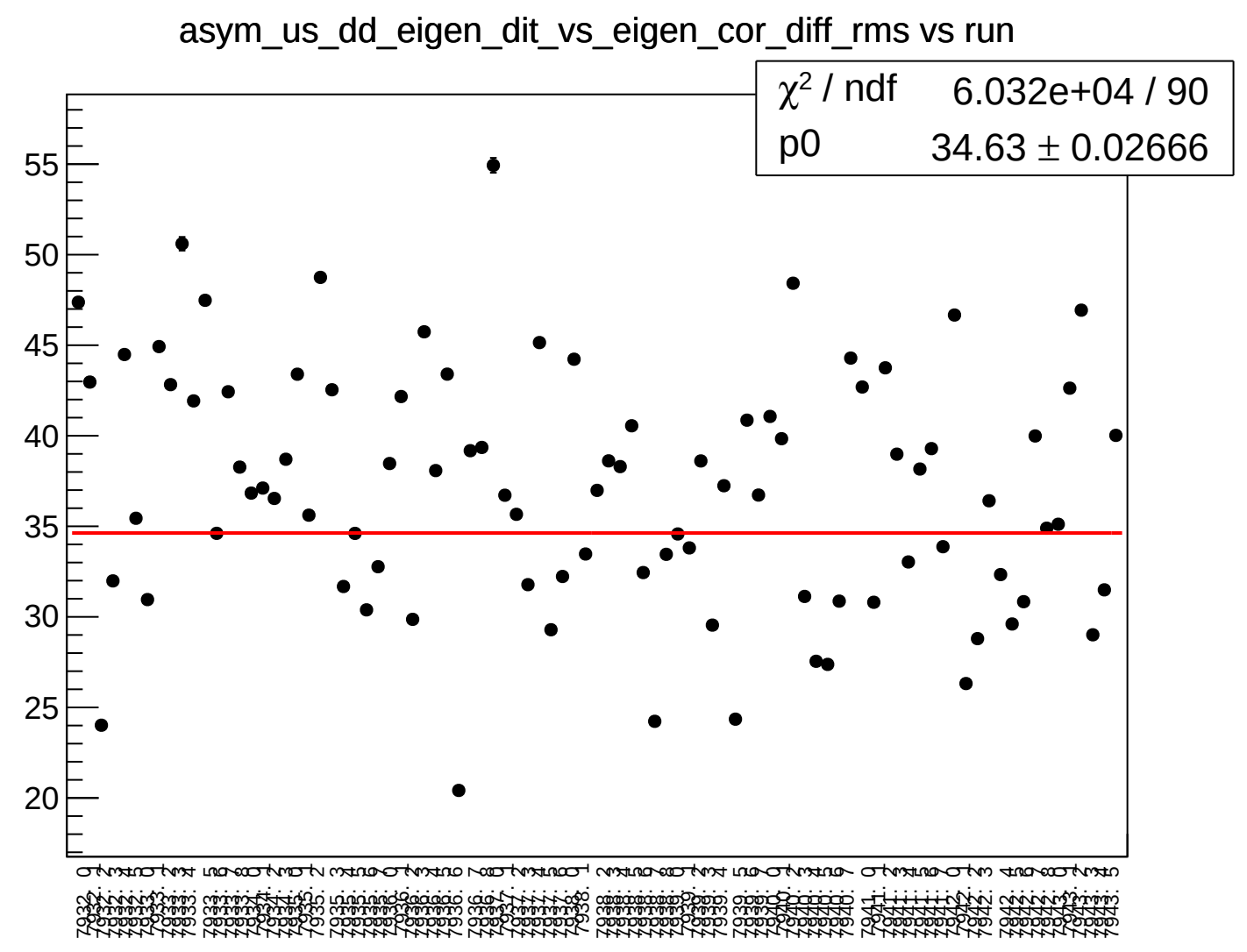

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 90
p0 −0.001198 ± 0.0377
pull
Entries 91
Mean 255.2
Std Dev 0

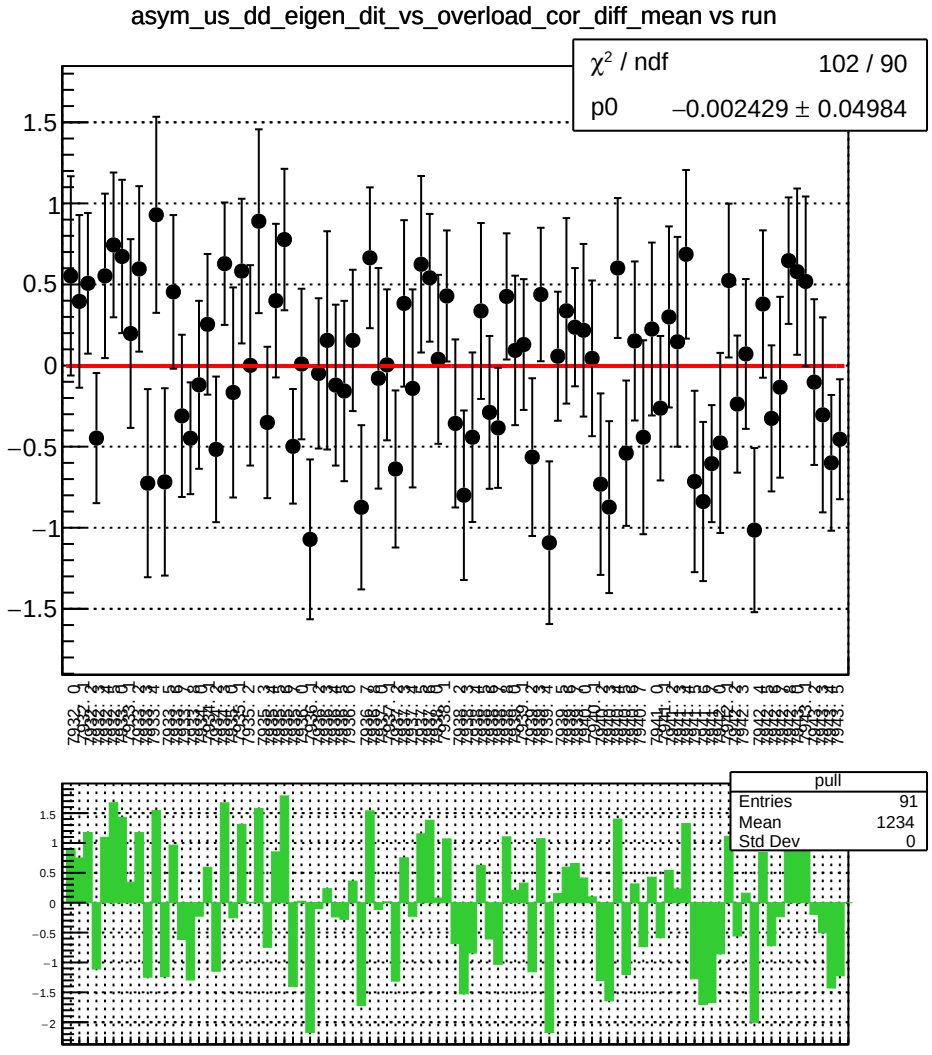

pull1D
Entries 91
Mean −0.0163
Std Dev 1.066

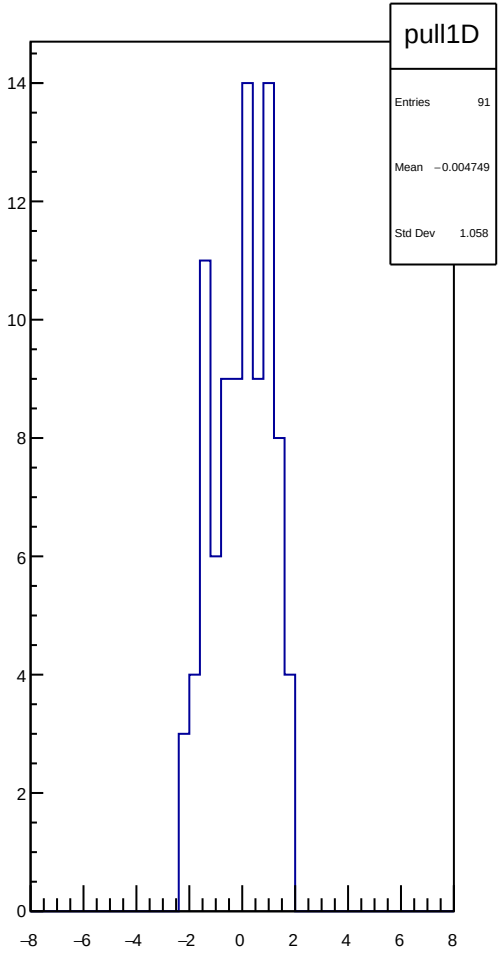

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.032e+04 / 90
p0 34.63 ± 0.02666
55
50
45
40
35
30
25
20

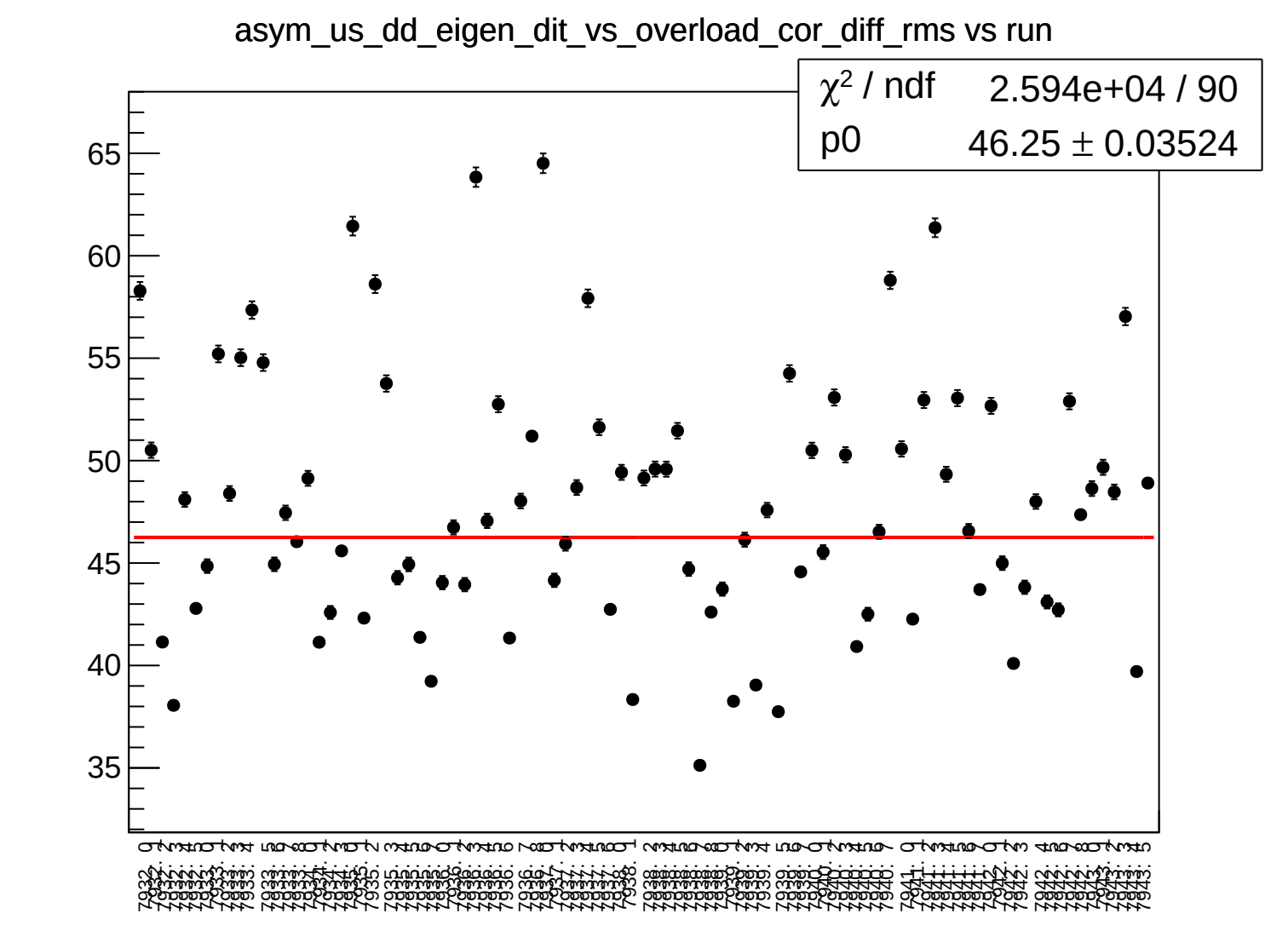

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 90
p0 −0.001198 ± 0.0377
pull
Entries 91
Mean 255.2
Std Dev 0

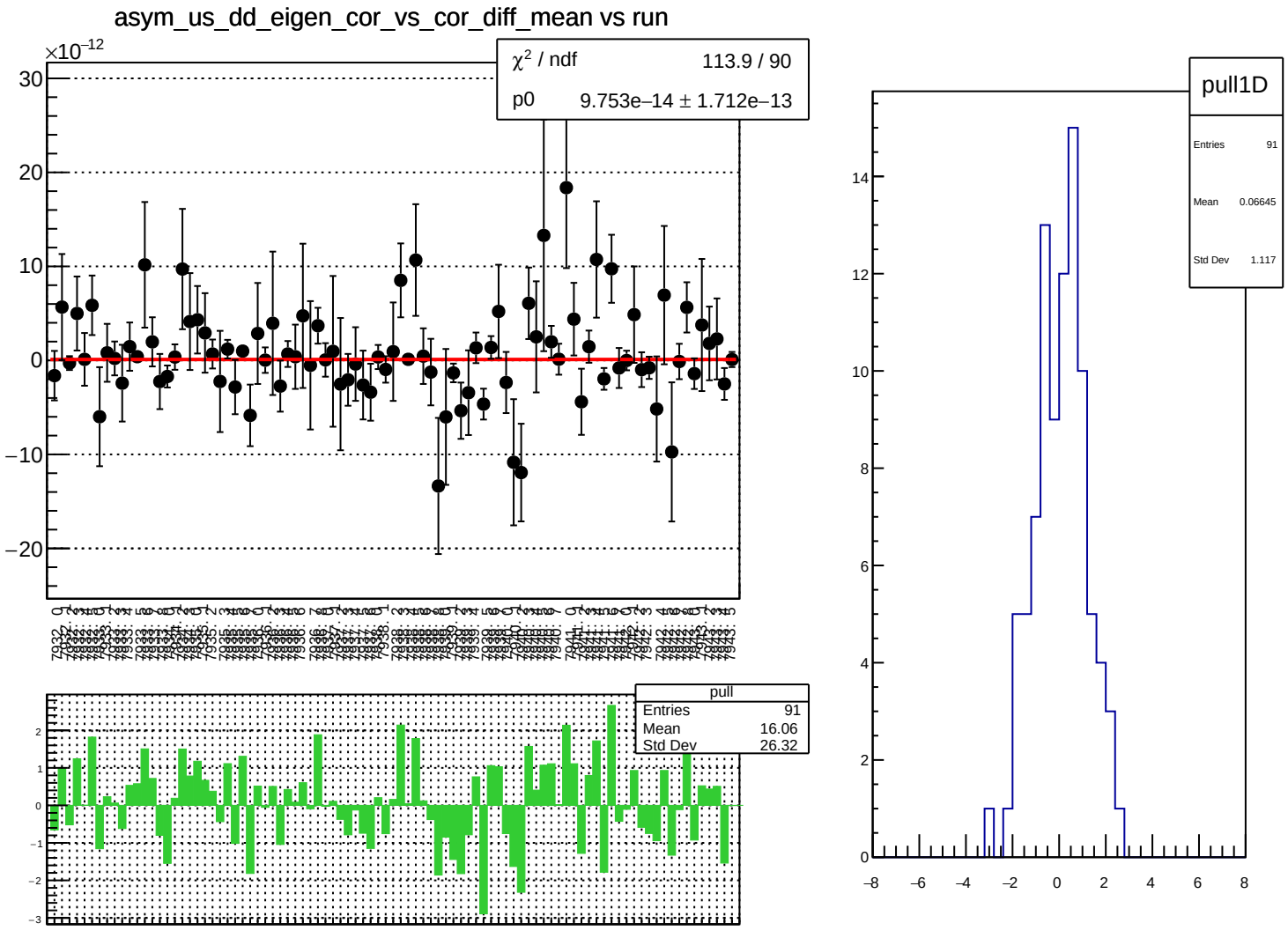

pull1D
Entries 91
Mean −0.0163
Std Dev 1.066

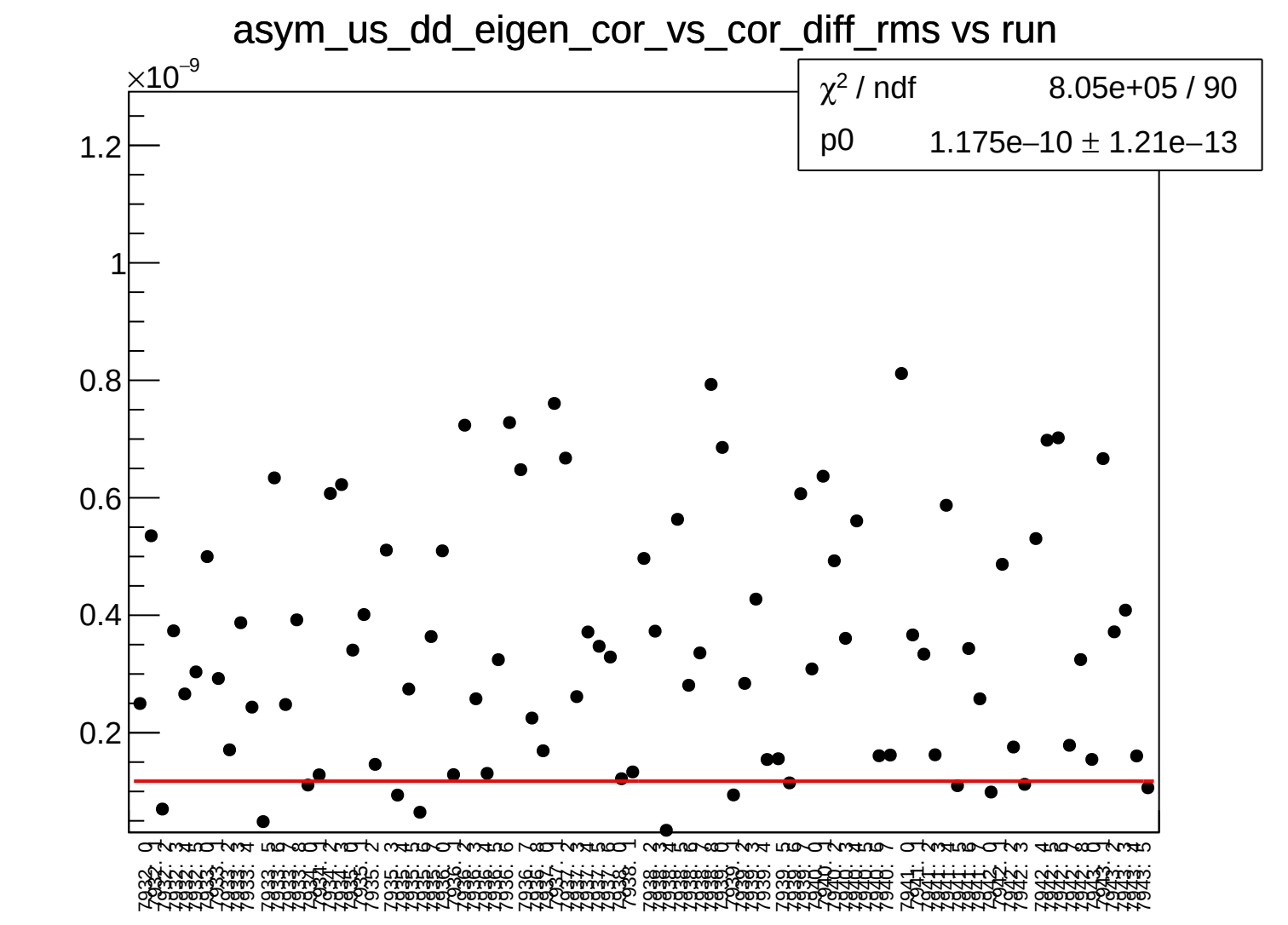

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.032e+04 / 90
p0 34.63 ± 0.02666
55
50
45
40
35
30
25
20

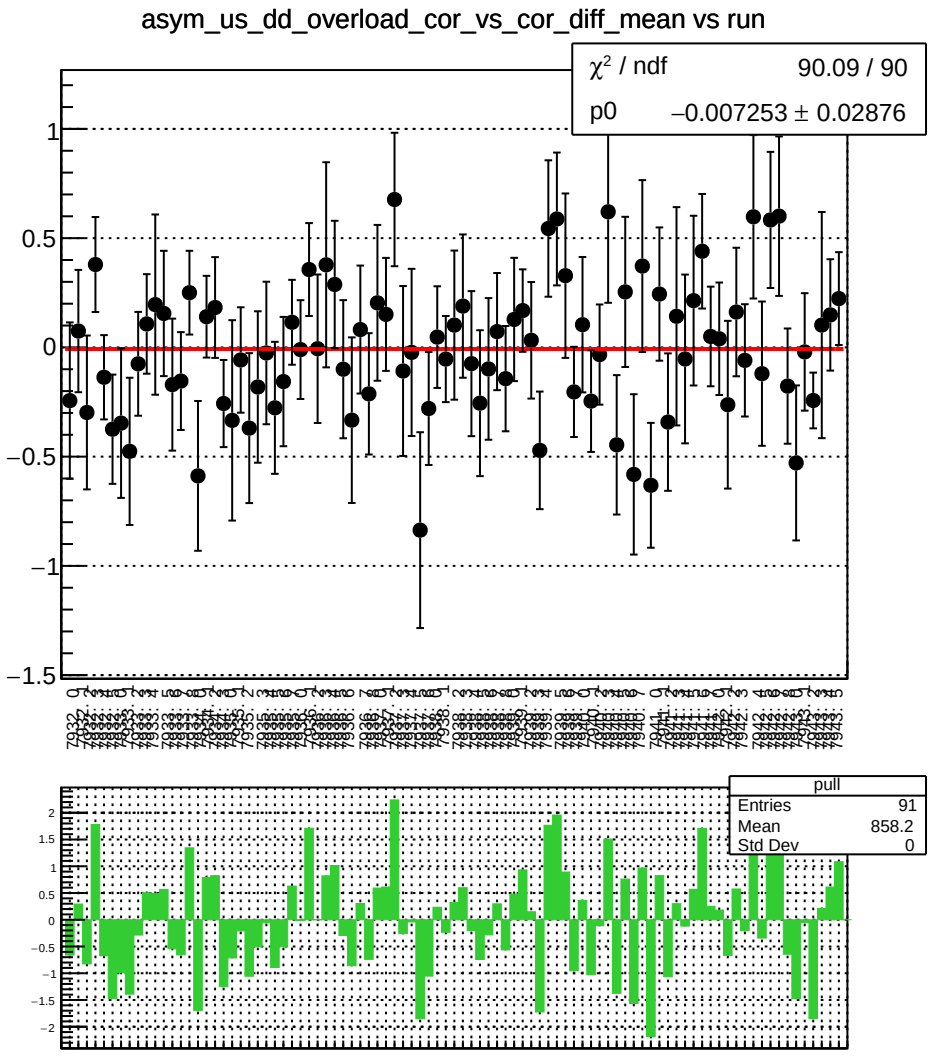

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102 / 90
p0 −0.002429 ± 0.04984
pull
Entries 91
Mean 1234
Std Dev 0

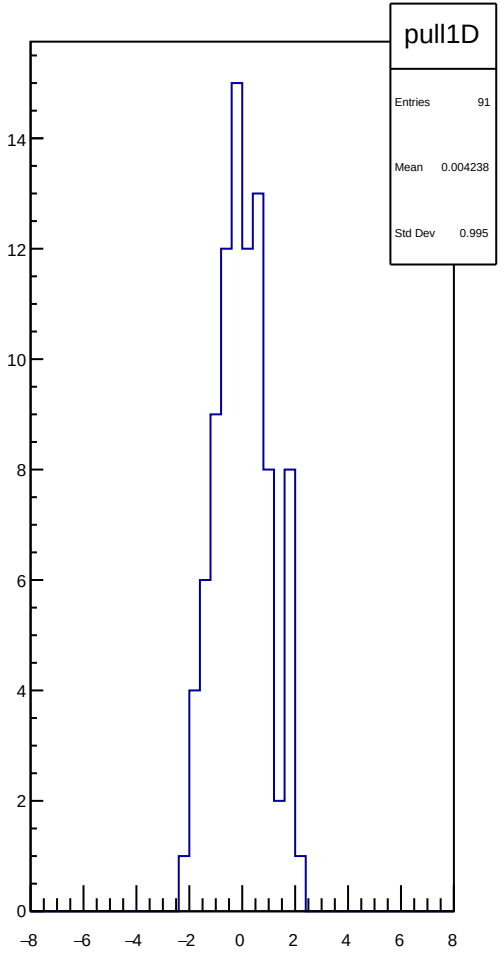

pull1D
Entries 91
Mean −0.004749
Std Dev 1.058

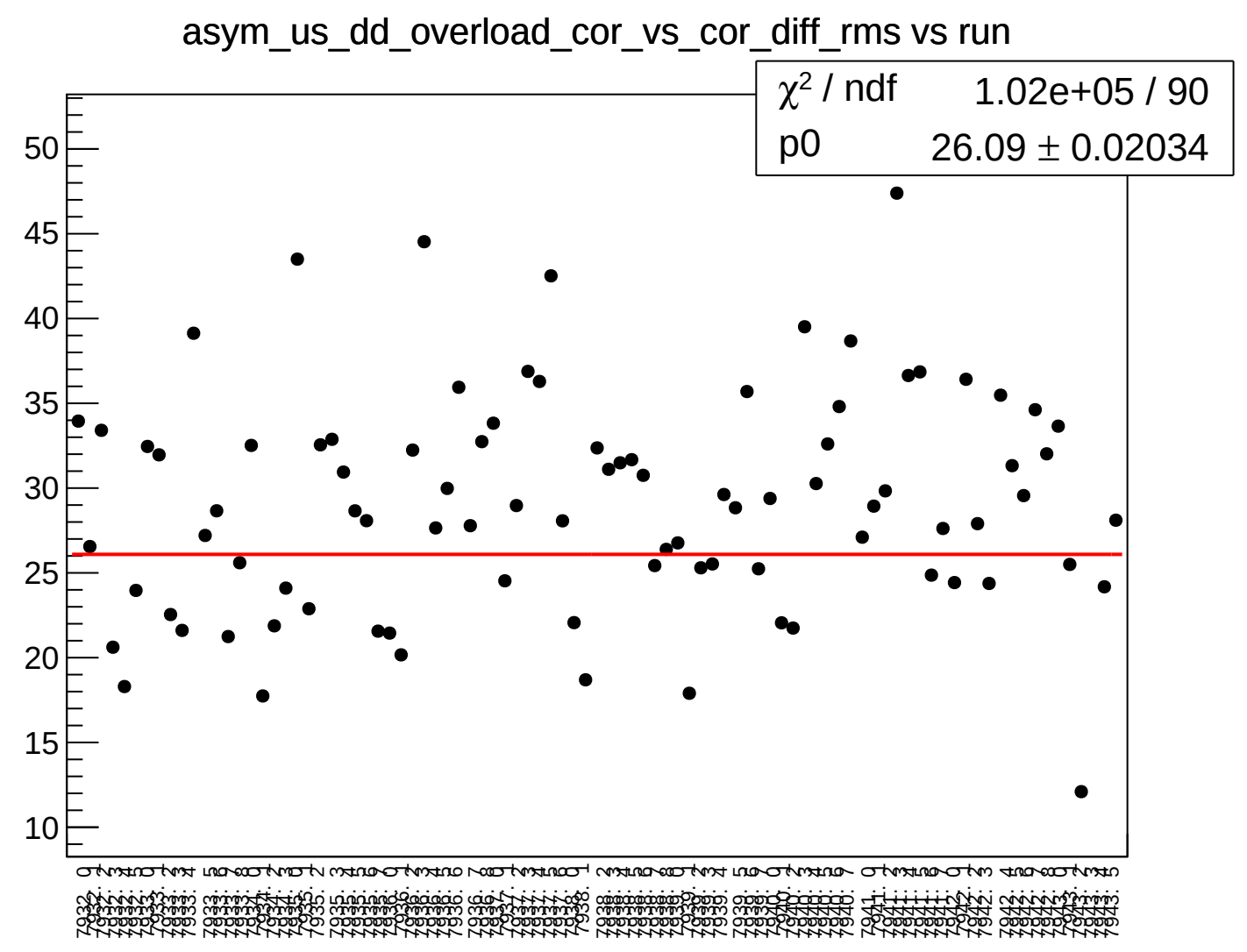

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 90
p0 46.25 ± 0.03524
65
60
55
50
45
40
35

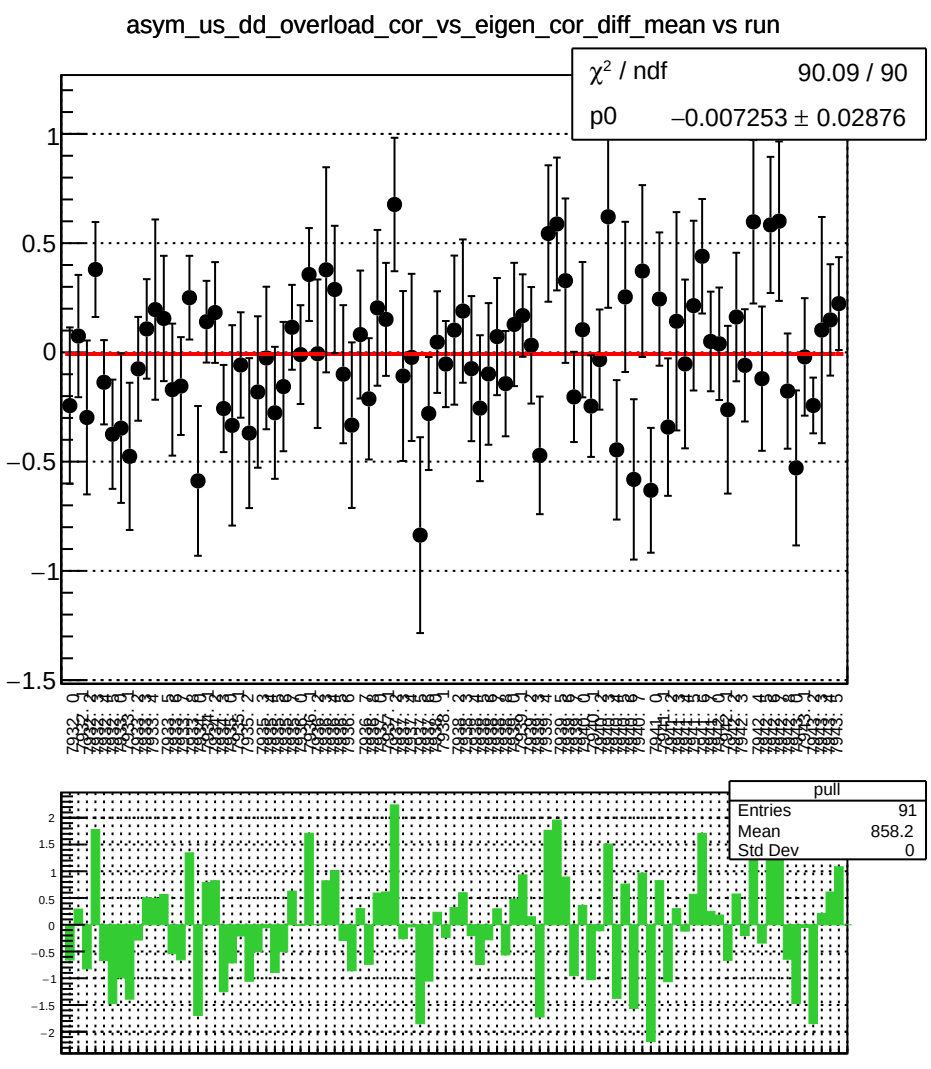

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.9 / 90
p0 9.753e−14 ± 1.712e−13
30
20
10
0
−10
−20
pull
Entries 91
Mean 16.06
Std Dev 26.32
pull1D
Entries 91
Mean 0.06645
Std Dev 1.117

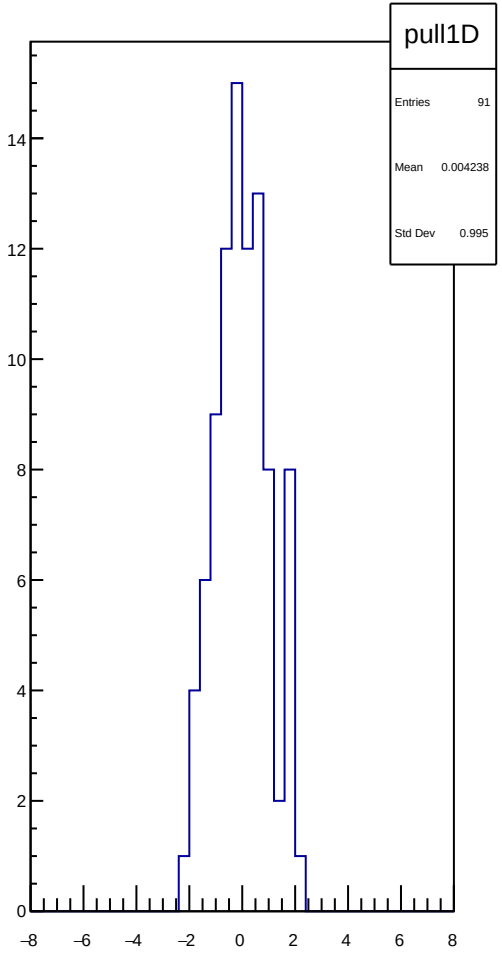

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.05e+05 / 90
p0 1.175e−10 ± 1.21e−13
1.2
1
0.8
0.6
0.4
0.2

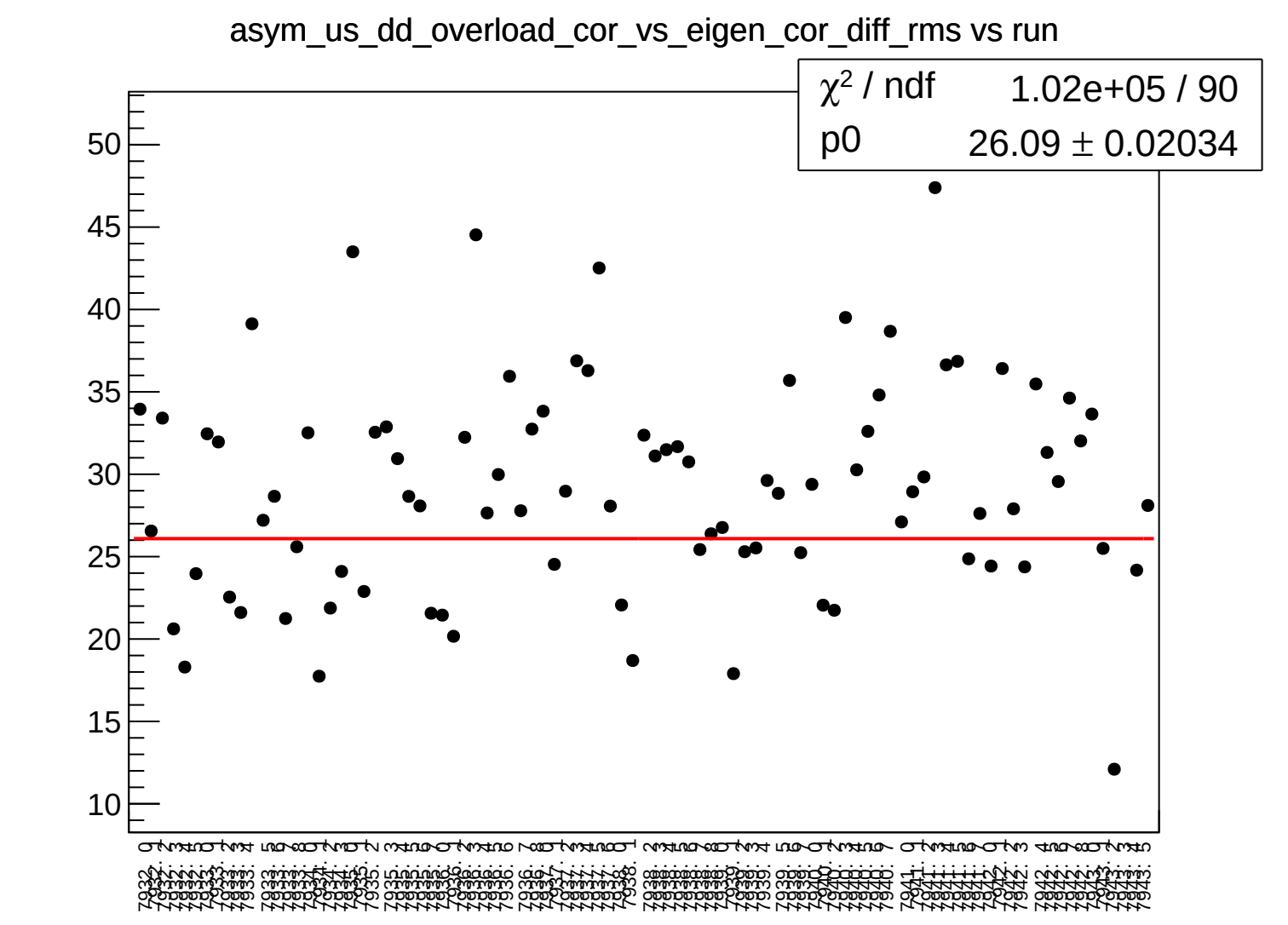

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 90.09 / 90
p0 −0.007253 ± 0.02876
pull
Entries 91
Mean 858.2
Std Dev 0

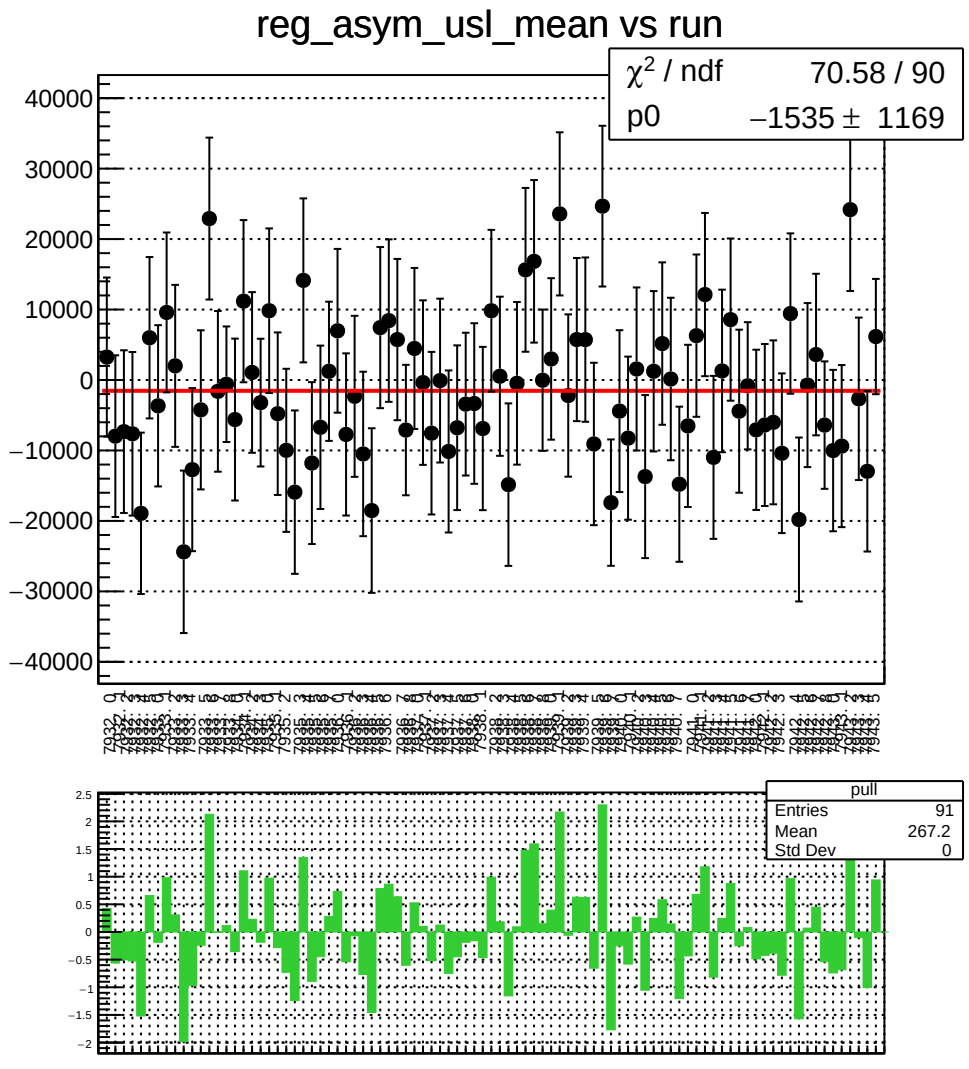

pull1D
Entries 91
Mean 0.004238
Std Dev 0.995

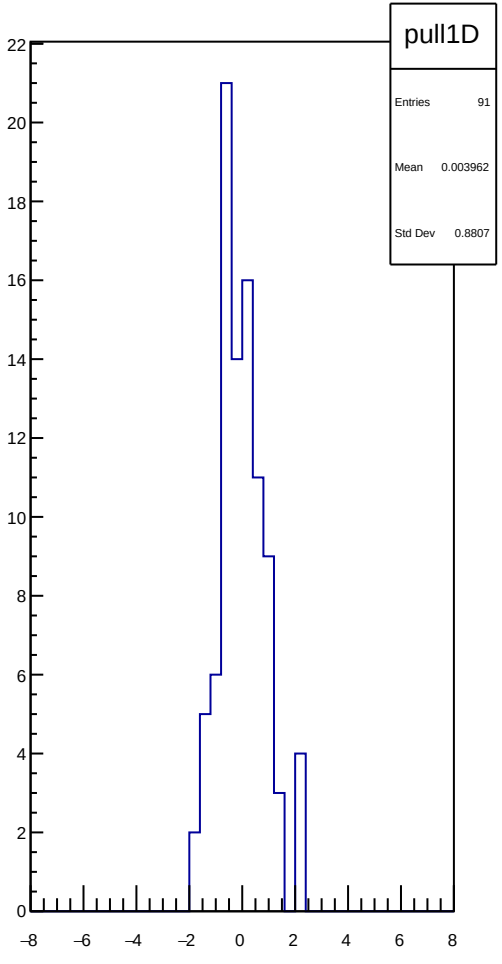

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.02e+05 / 90
p0 26.09 ± 0.02034
50
45
40
35
30
25
20
15
10

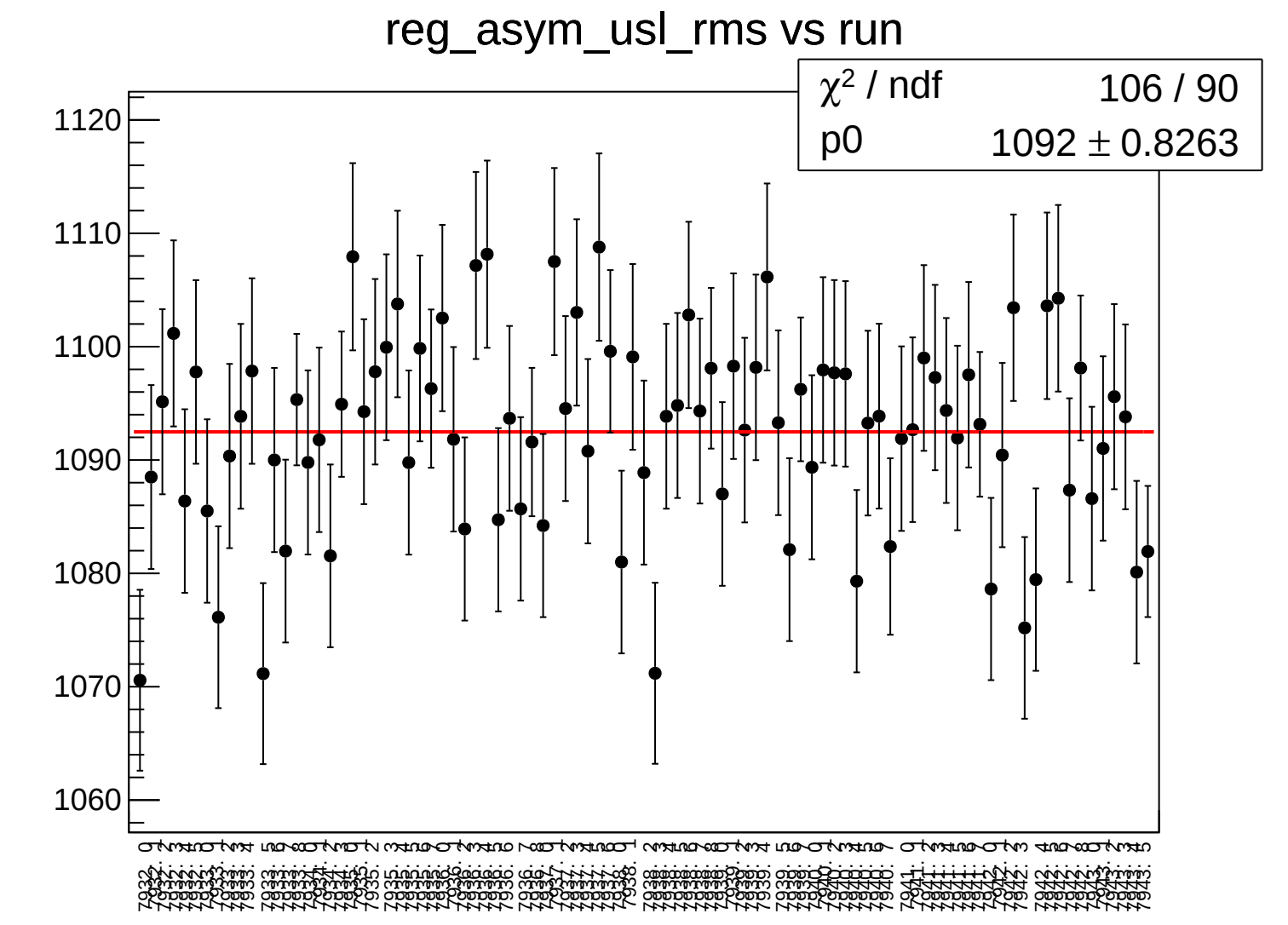

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.09 / 90
p0 −0.007253 ± 0.02876
pull
Entries 91
Mean 858.2
Std Dev 0

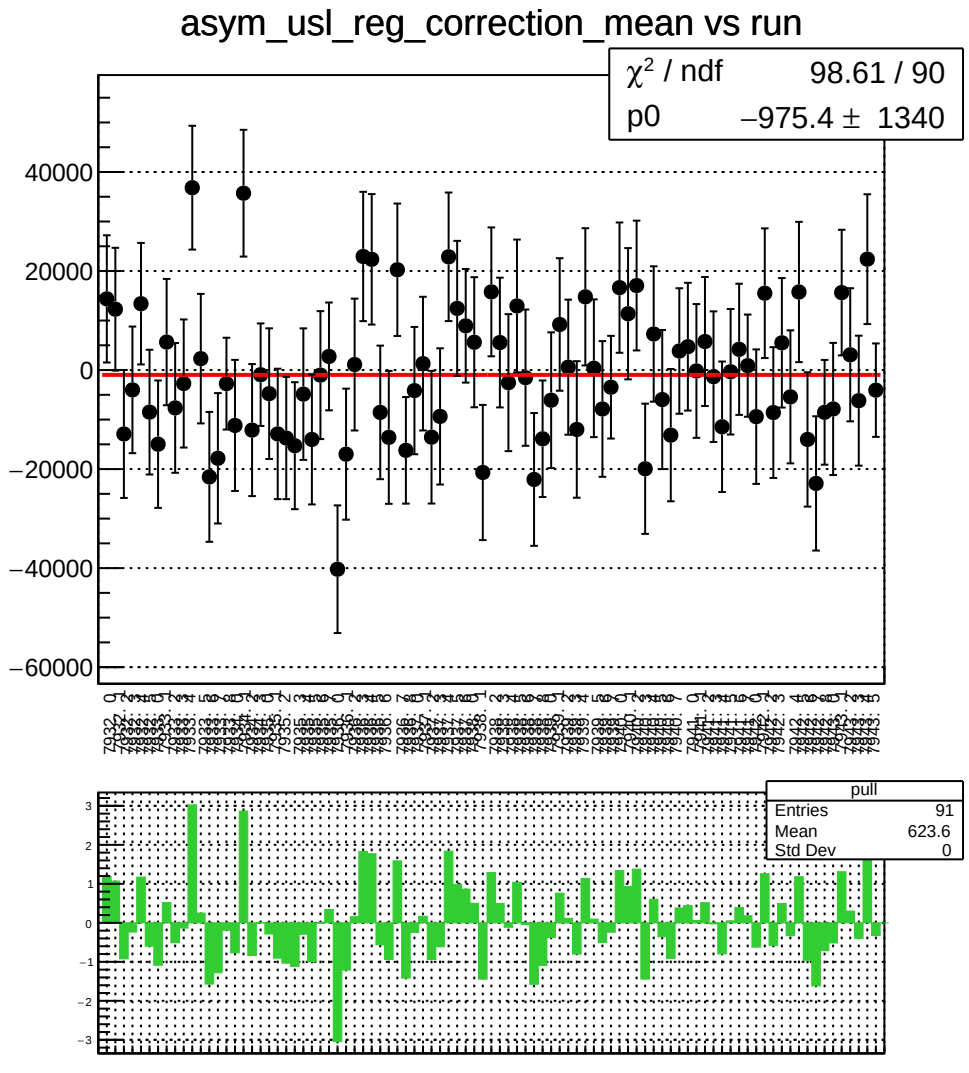

pull1D
Entries 91
Mean 0.004238
Std Dev 0.995

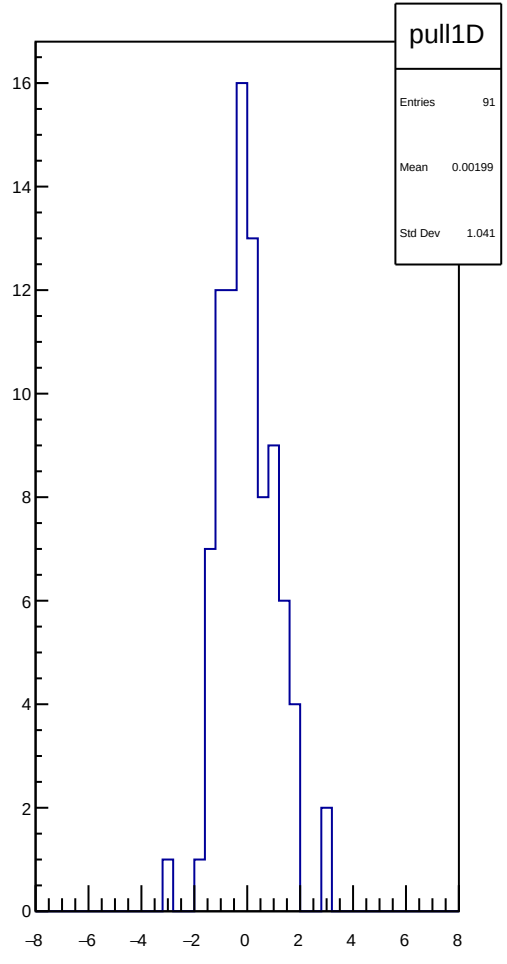

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.02e+05 / 90
p0 26.09 ± 0.02034
50
45
40
35
30
25
20
15
10

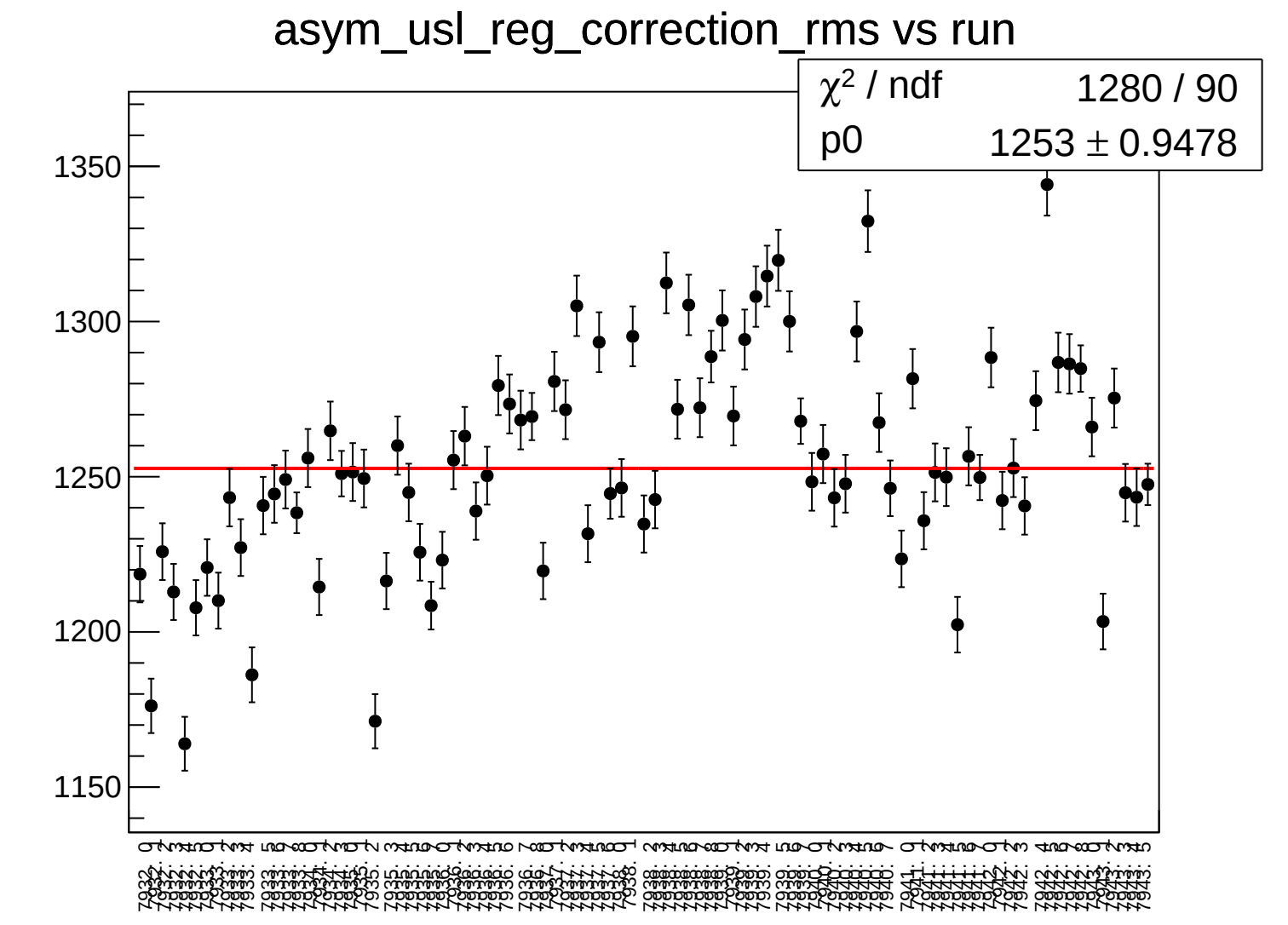

reg_asym_usl_mean vs run
χ² / ndf 70.58 / 90
p0 −1535 ± 1169
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 267.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

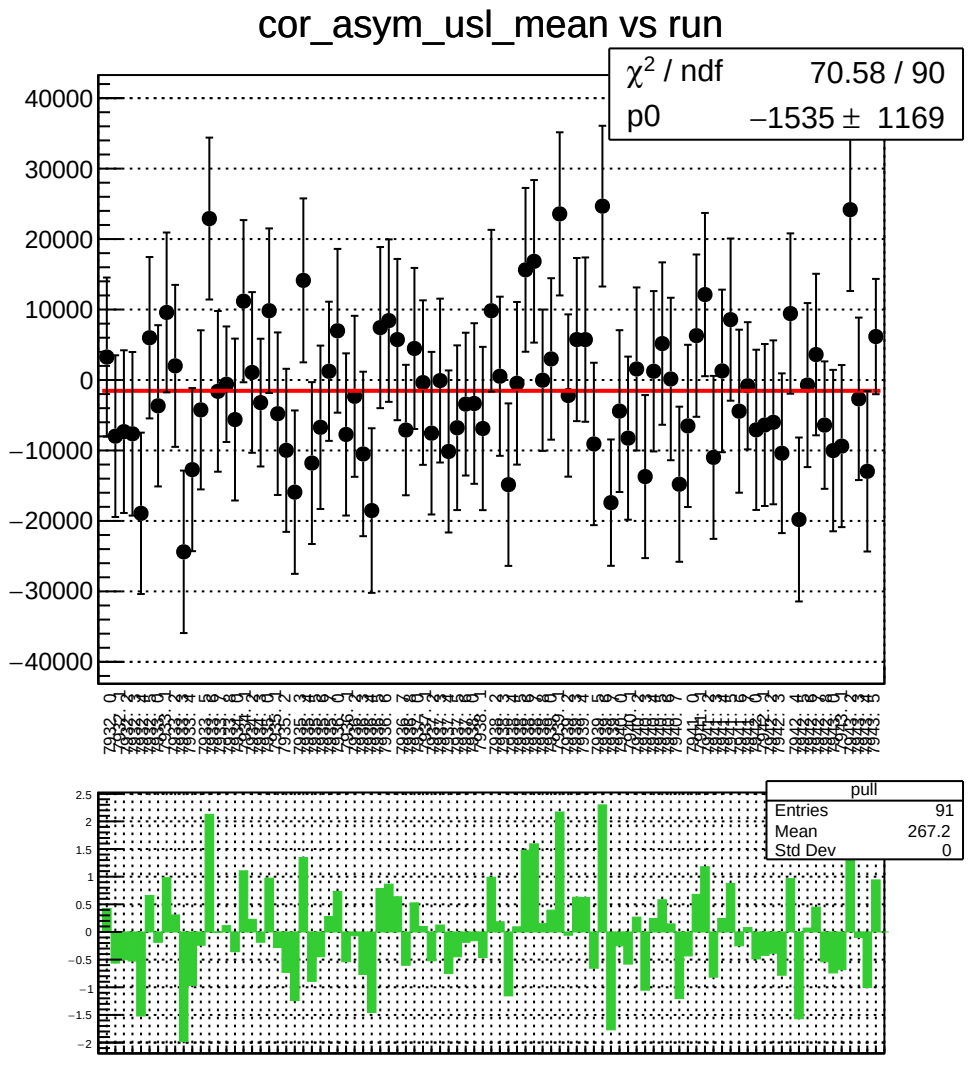

pull1D
Entries 91
Mean 0.003962
Std Dev 0.8807
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

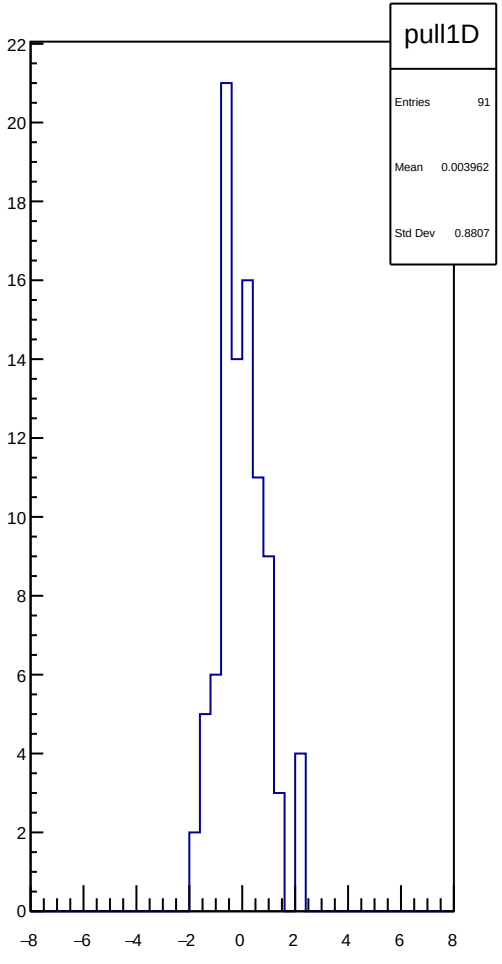

reg_asym_usl_rms vs run
χ² / ndf 106 / 90
p0 1092 ± 0.8263
1120
1110
1100
1090
1080
1070
1060

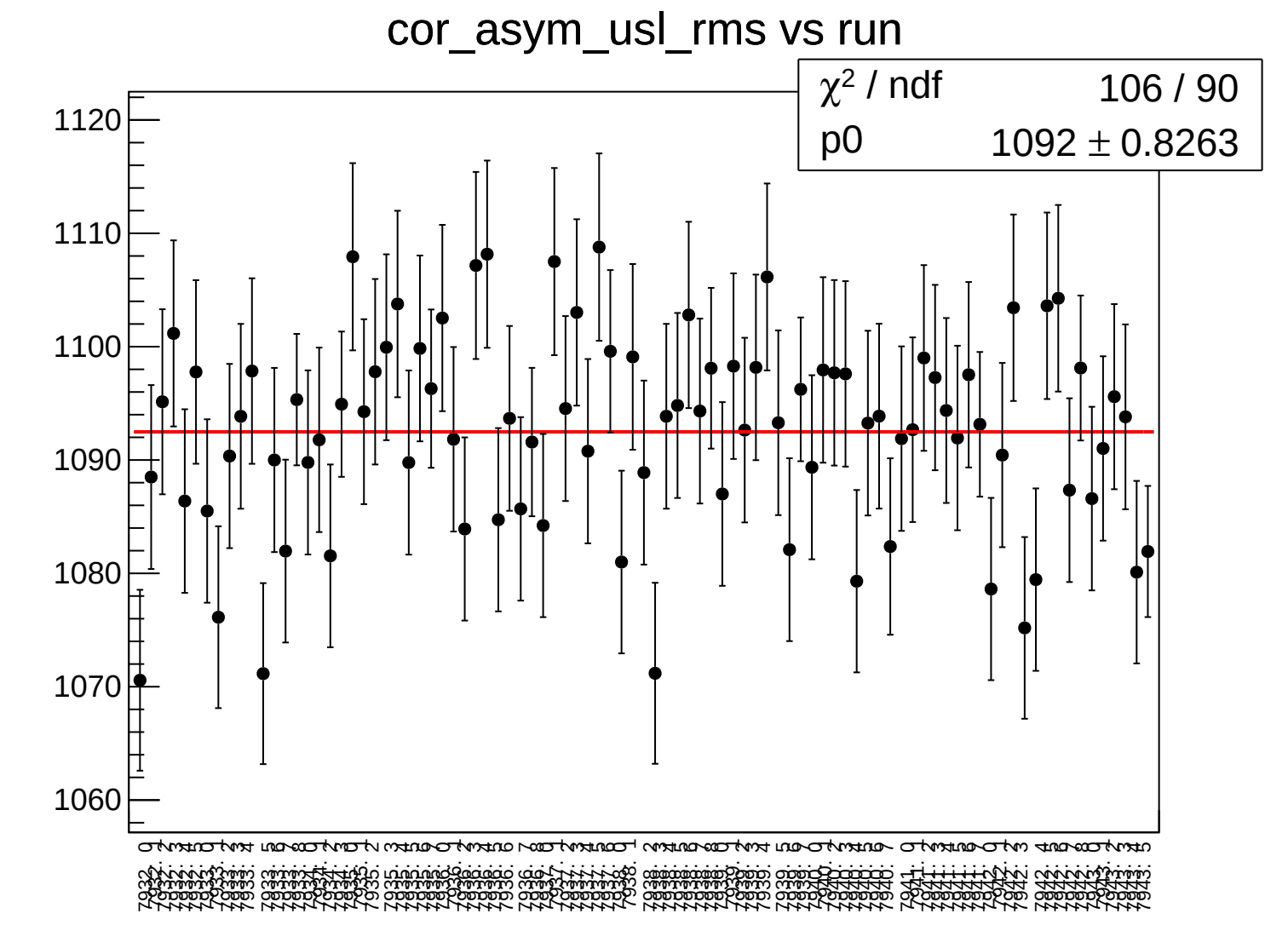

asym_usl_reg_correction_mean vs run
χ² / ndf 98.61 / 90
p0 −975.4 ± 1340
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 623.6
Std Dev 0
3
2
1
0
−1
−2
−3

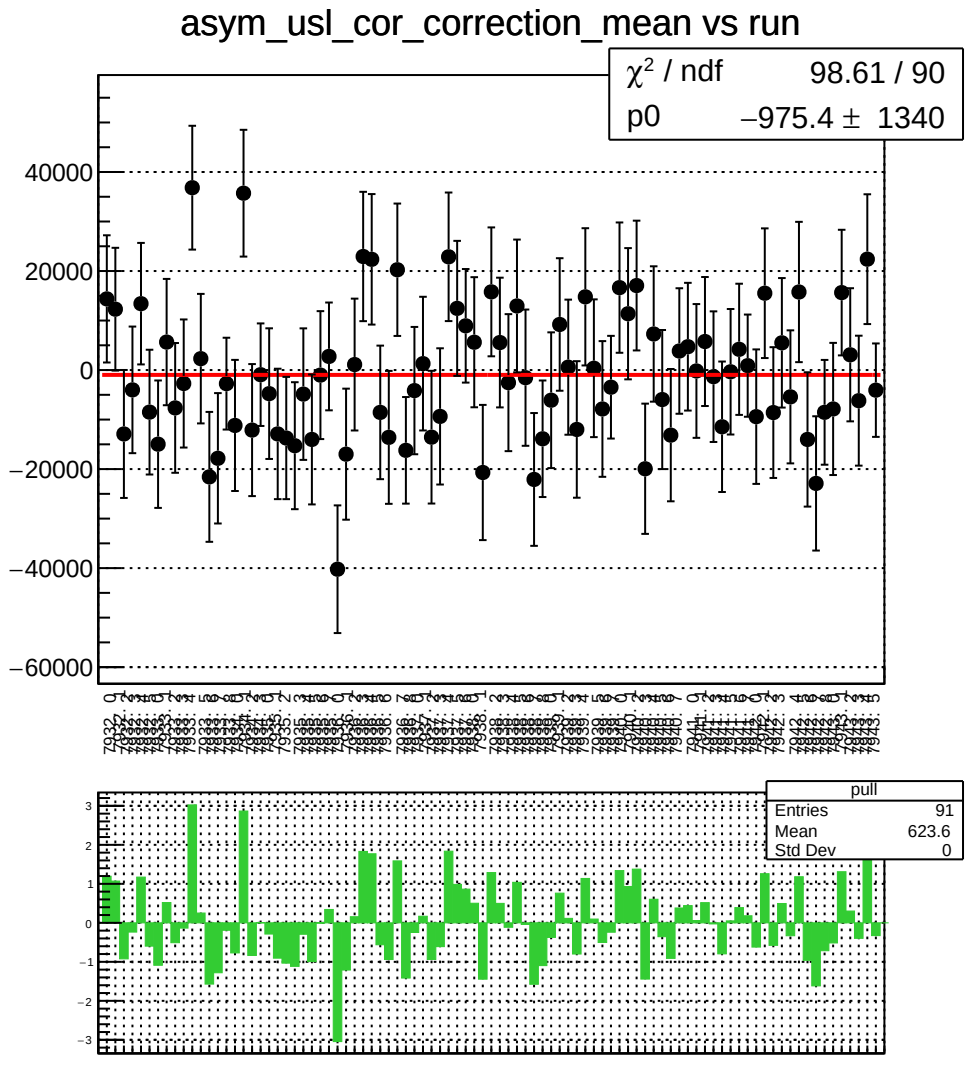

pull1D
Entries 91
Mean 0.00199
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

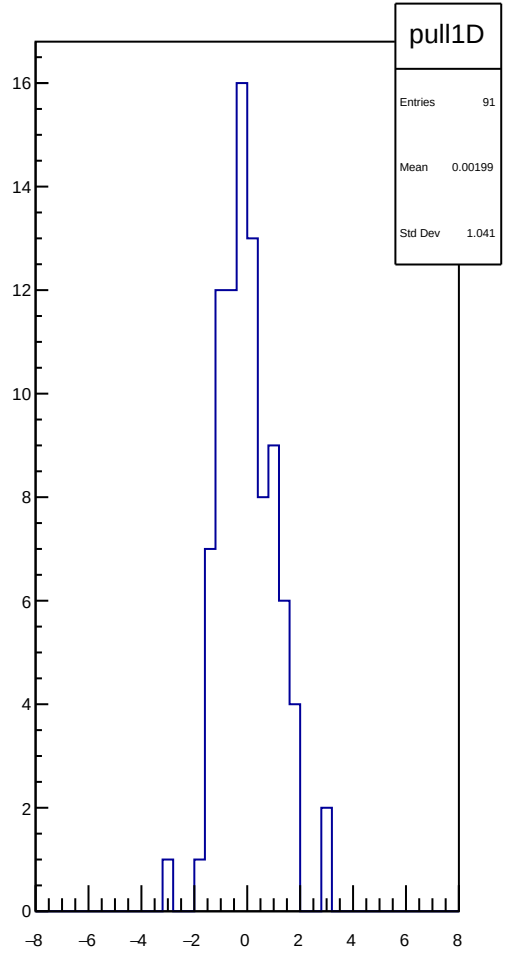

asym_usl_reg_correction_rms vs run
χ² / ndf 1280 / 90
p0 1253 ± 0.9478
1350
1300
1250
1200
1150

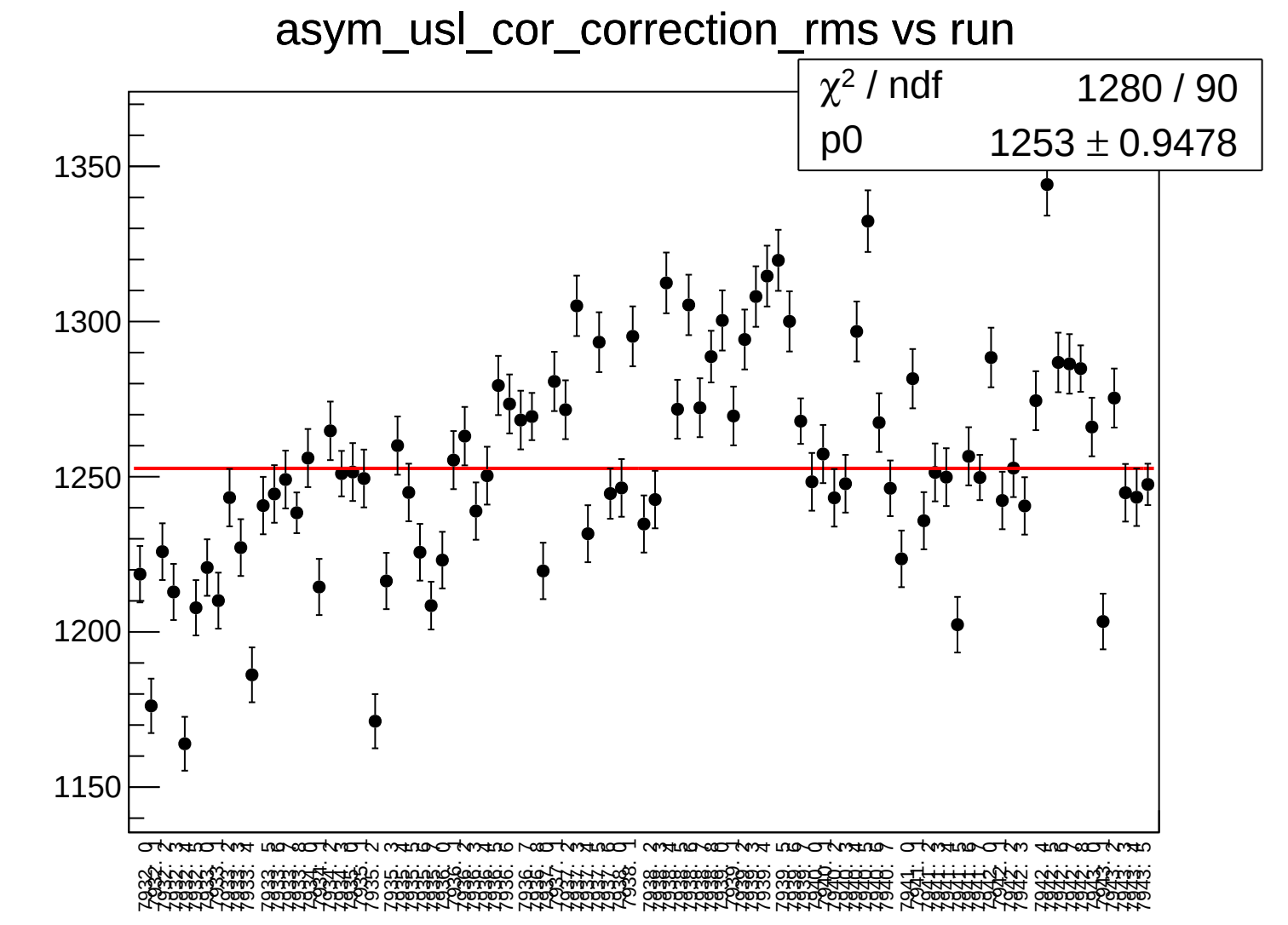

cor_asym_usl_mean vs run
χ² / ndf 70.58 / 90
p0 −1535 ± 1169
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 267.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

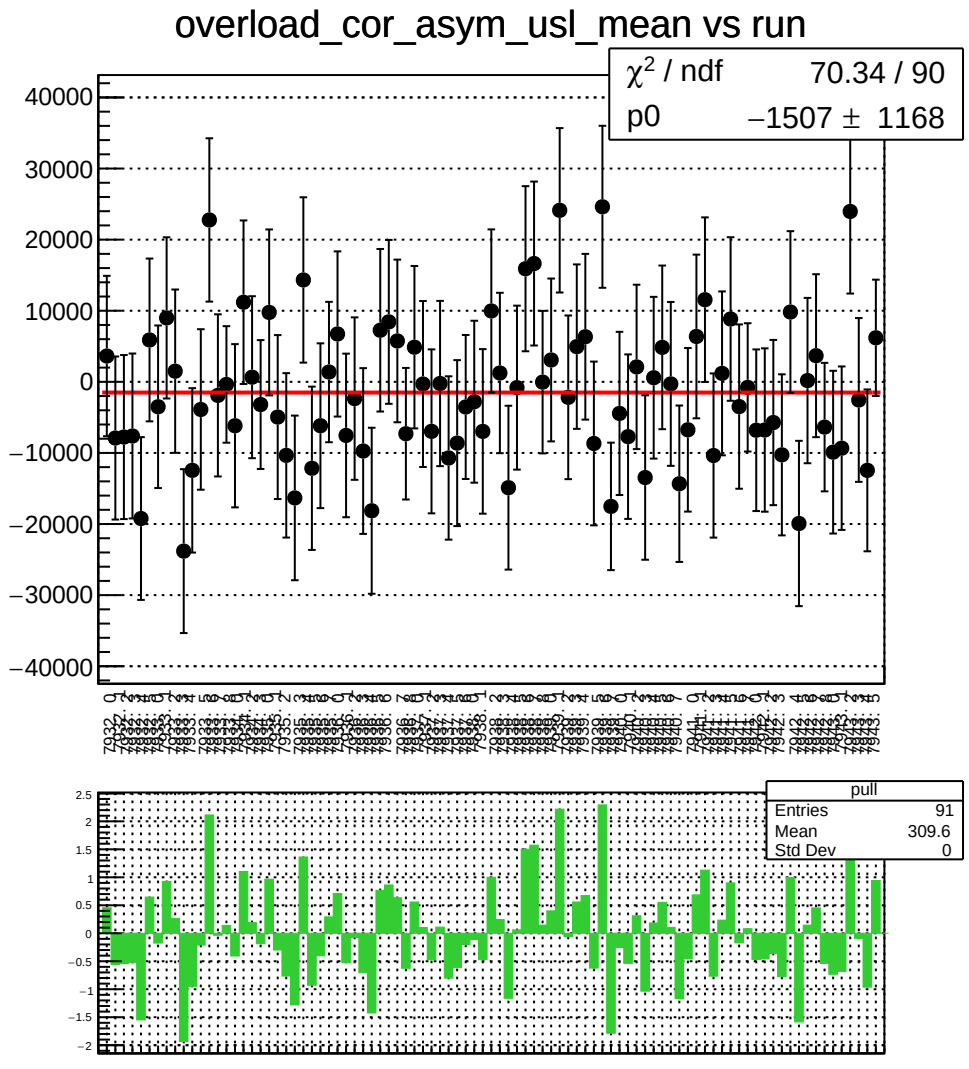

pull1D
Entries 91
Mean 0.003962
Std Dev 0.8807
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

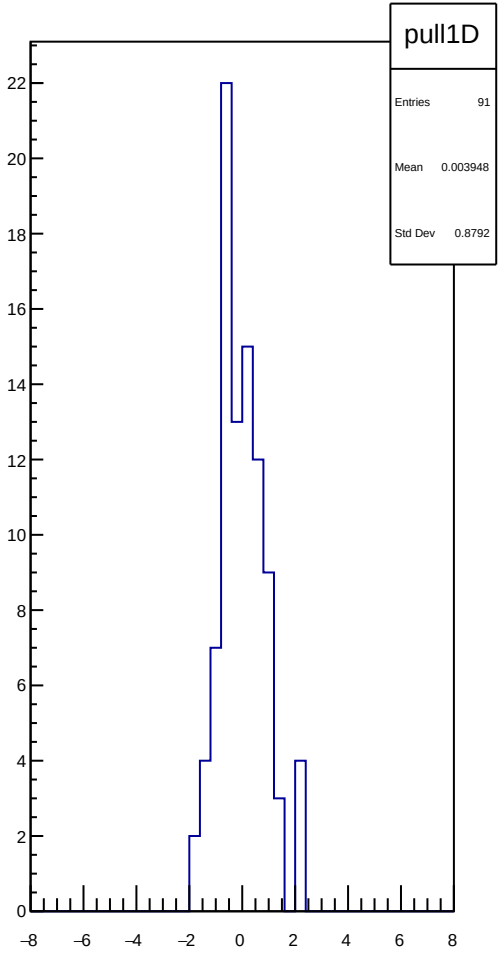

cor_asym_usl_rms vs run
χ² / ndf 106 / 90
p0 1092 ± 0.8263
1120
1110
1100
1090
1080
1070
1060

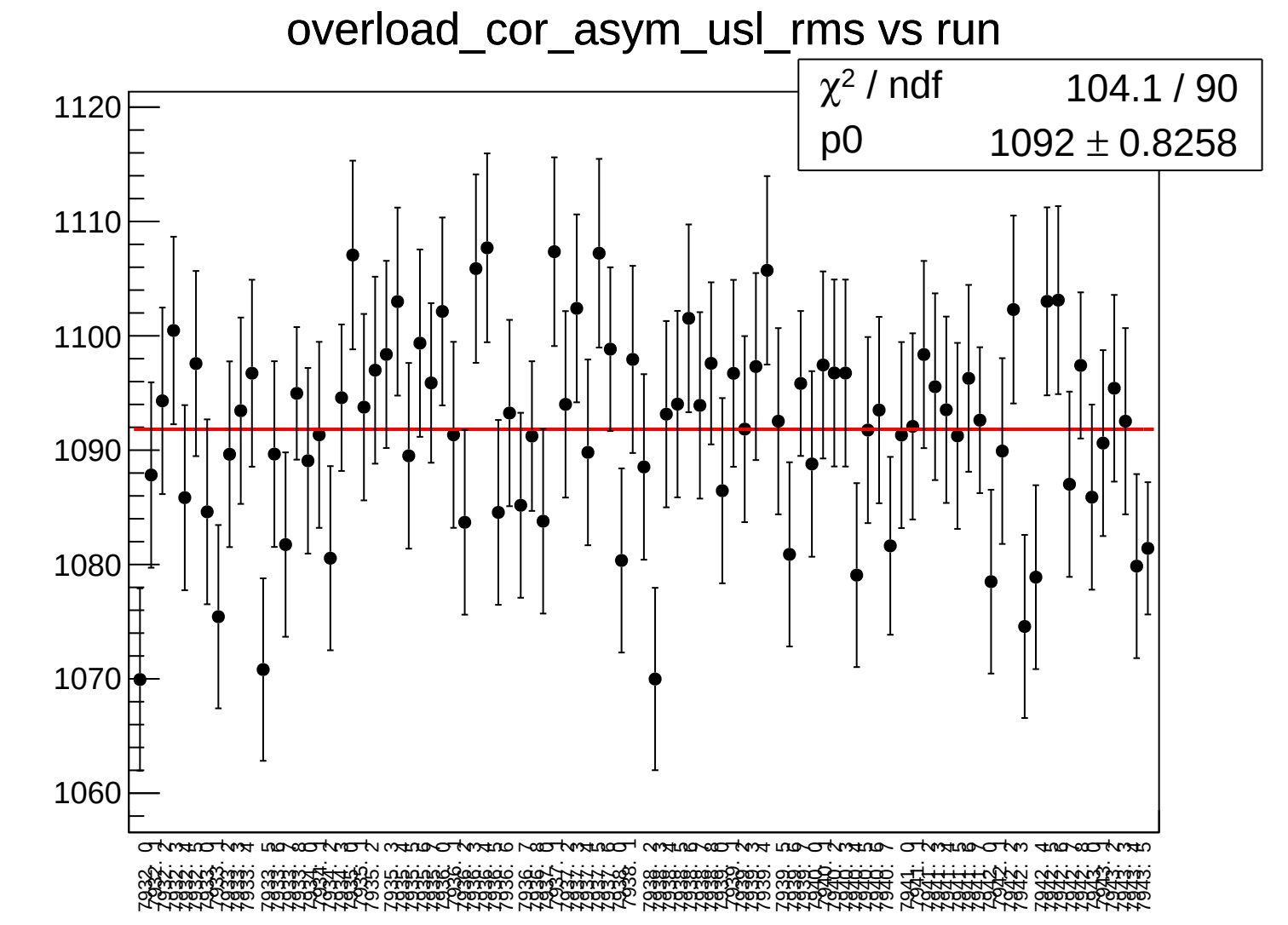

asym_usl_cor_correction_mean vs run
χ² / ndf 98.61 / 90
p0 −975.4 ± 1340
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 623.6
Std Dev 0
3
2
1
0
−1
−2
−3

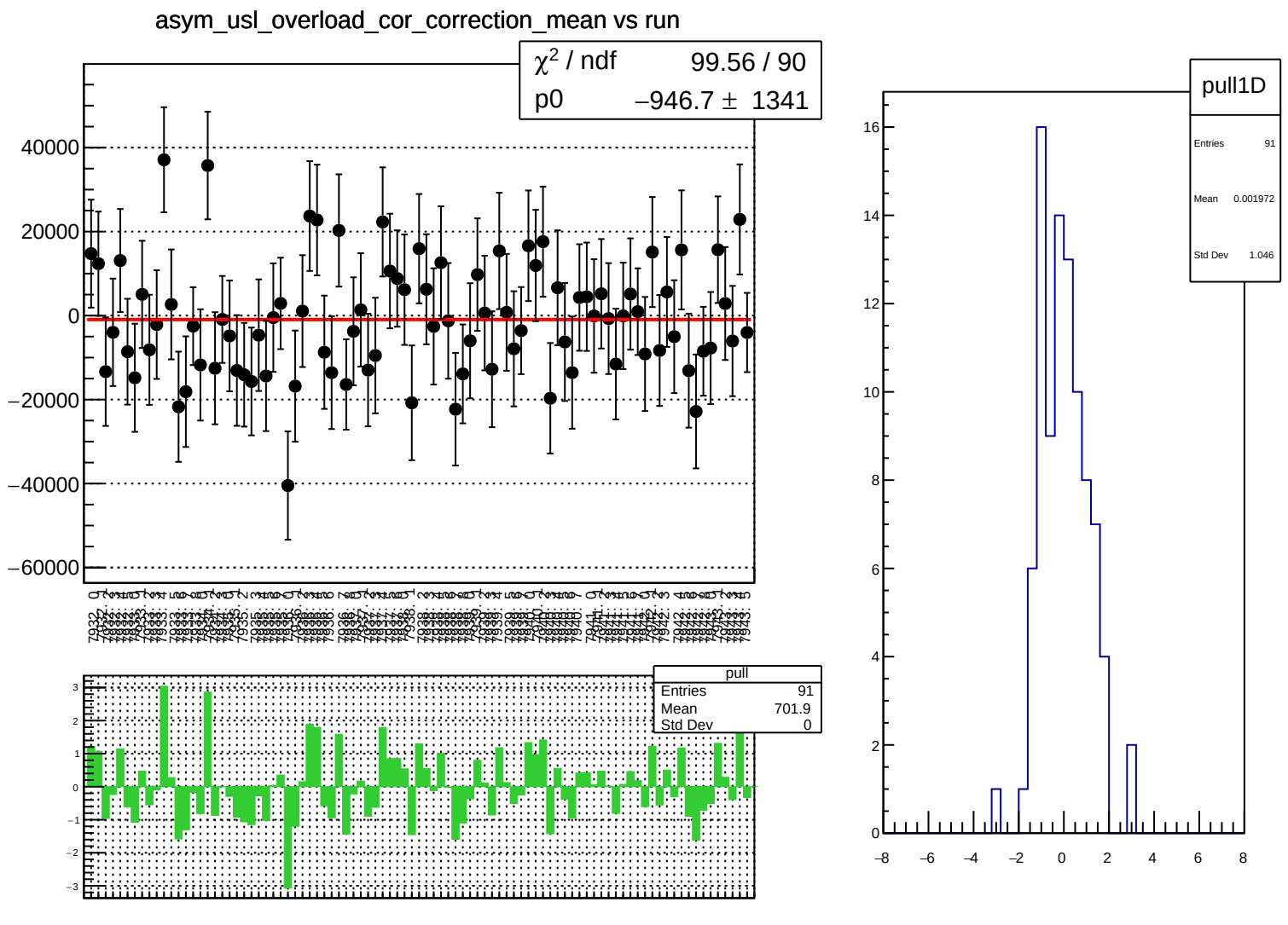

pull1D
Entries 91
Mean 0.00199
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

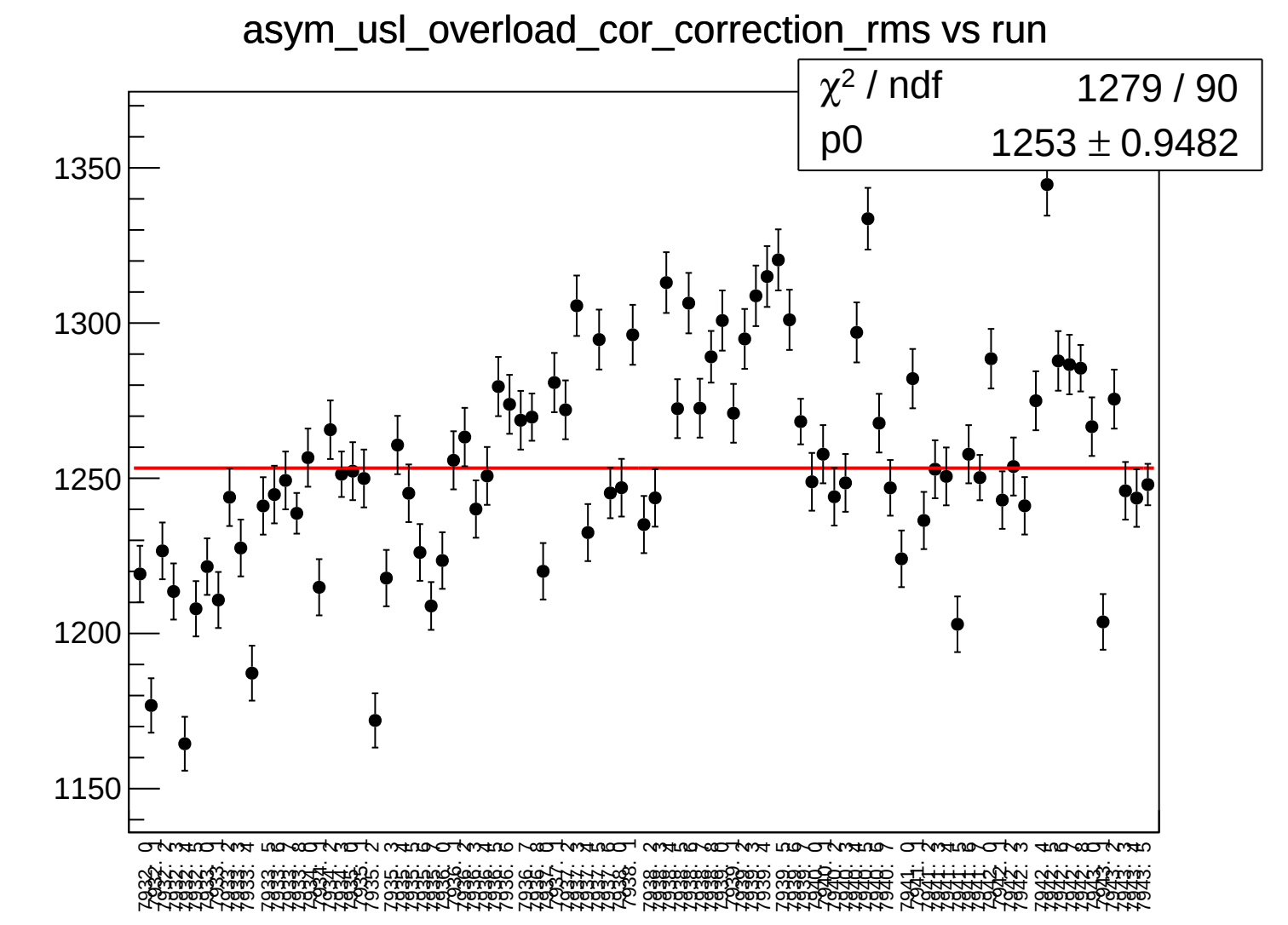

asym_usl_cor_correction_rms vs run
χ² / ndf 1280 / 90
p0 1253 ± 0.9478
1350
1300
1250
1200
1150

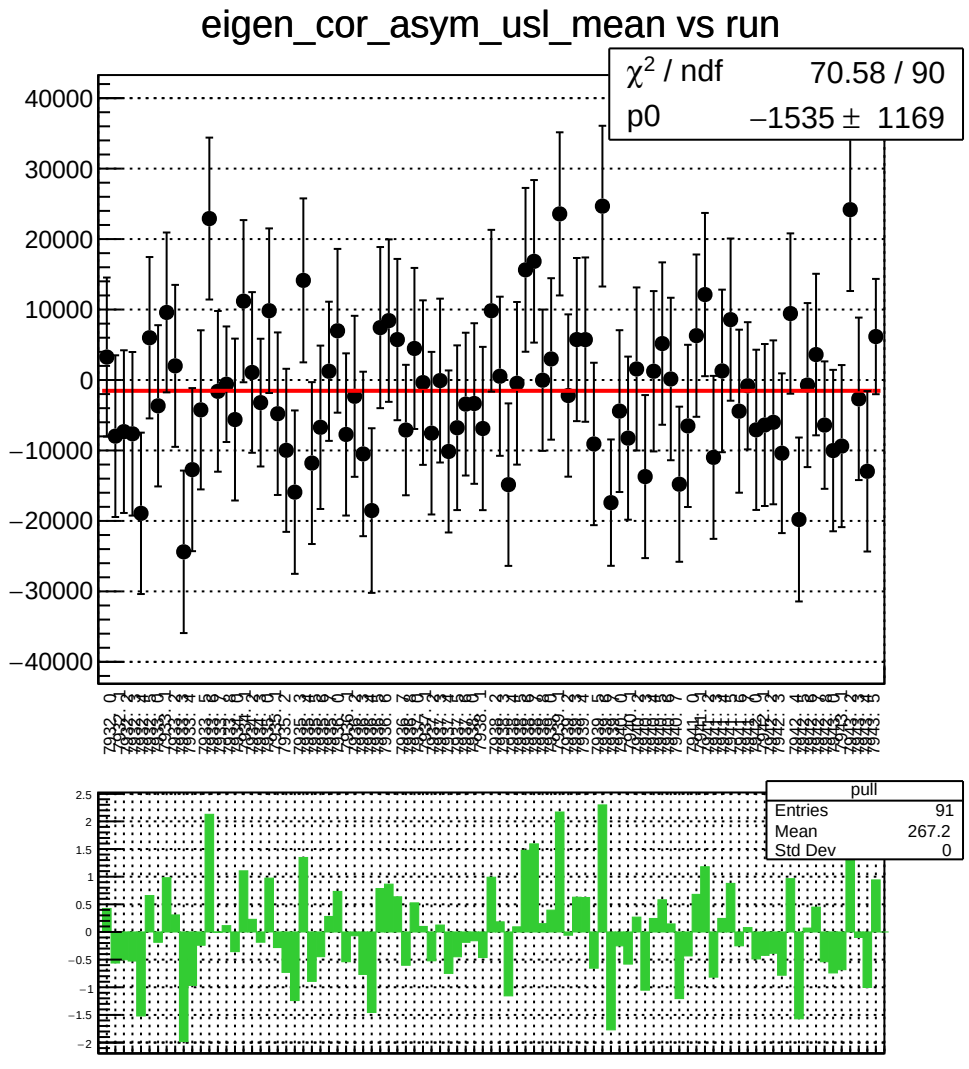

overload_cor_asym_usl_mean vs run
χ² / ndf 70.34 / 90
p0 −1507 ± 1168
pull
Entries 91
Mean 309.6
Std Dev 0

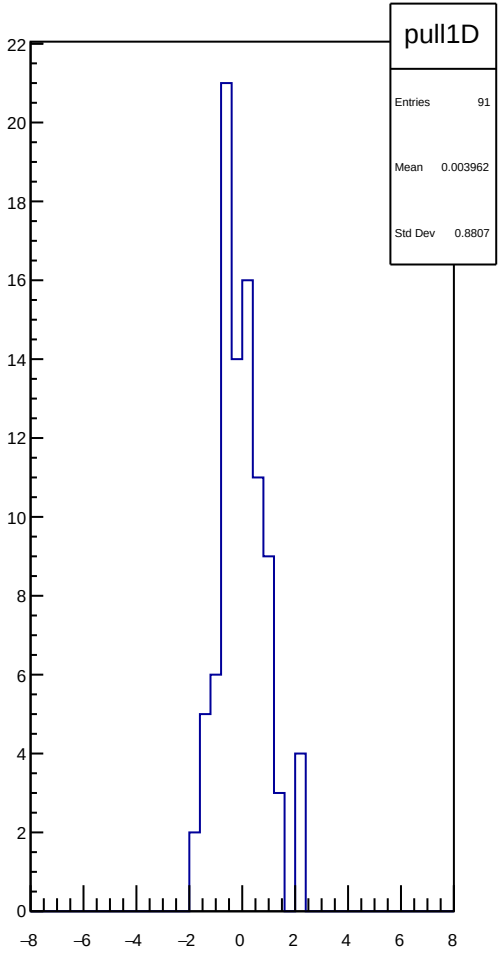

pull1D
Entries 91
Mean 0.003948
Std Dev 0.8792

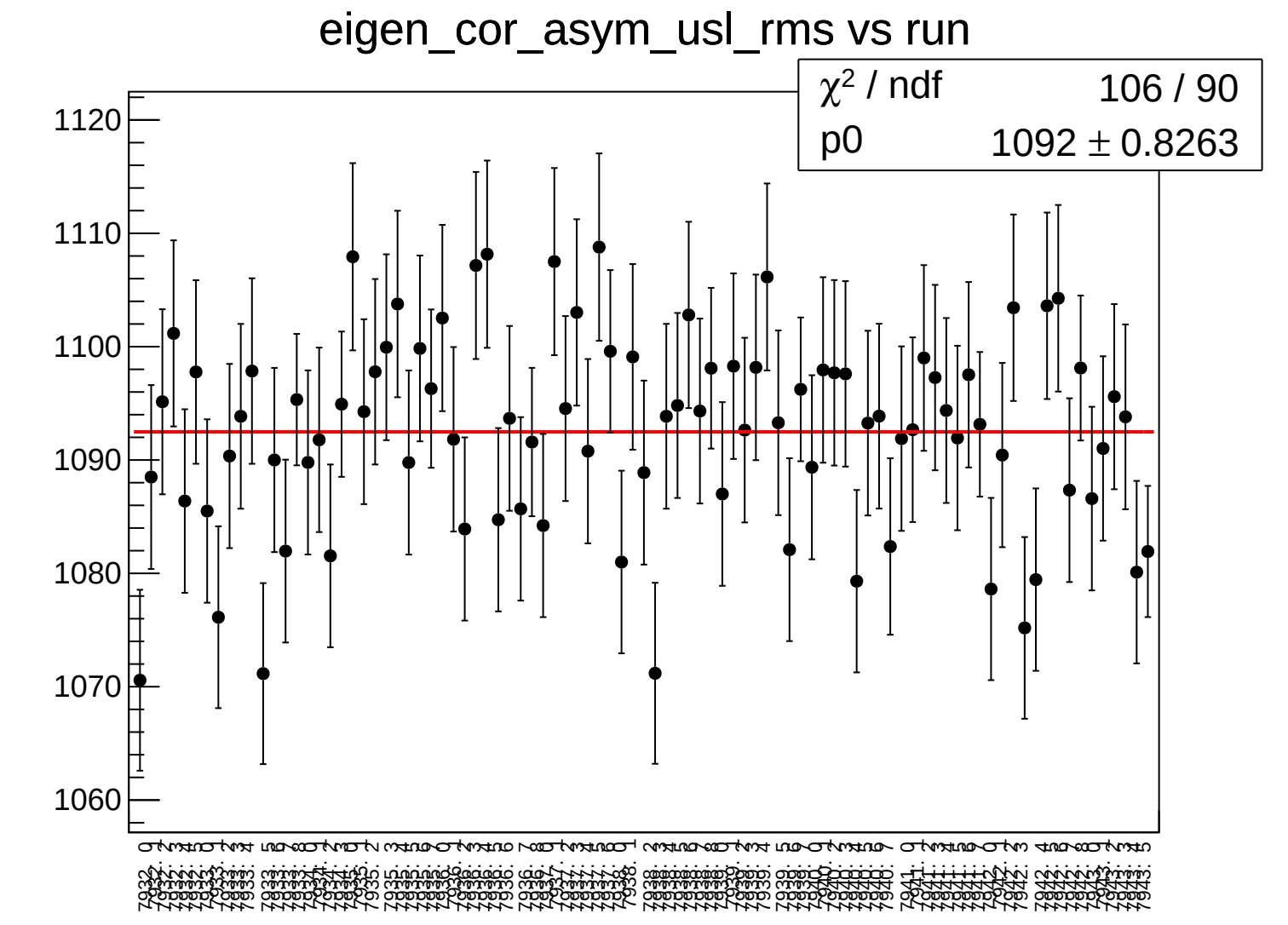

overload_cor_asym_usl_rms vs run
χ² / ndf 104.1 / 90
p0 1092 ± 0.8258
1120
1110
1100
1090
1080
1070
1060

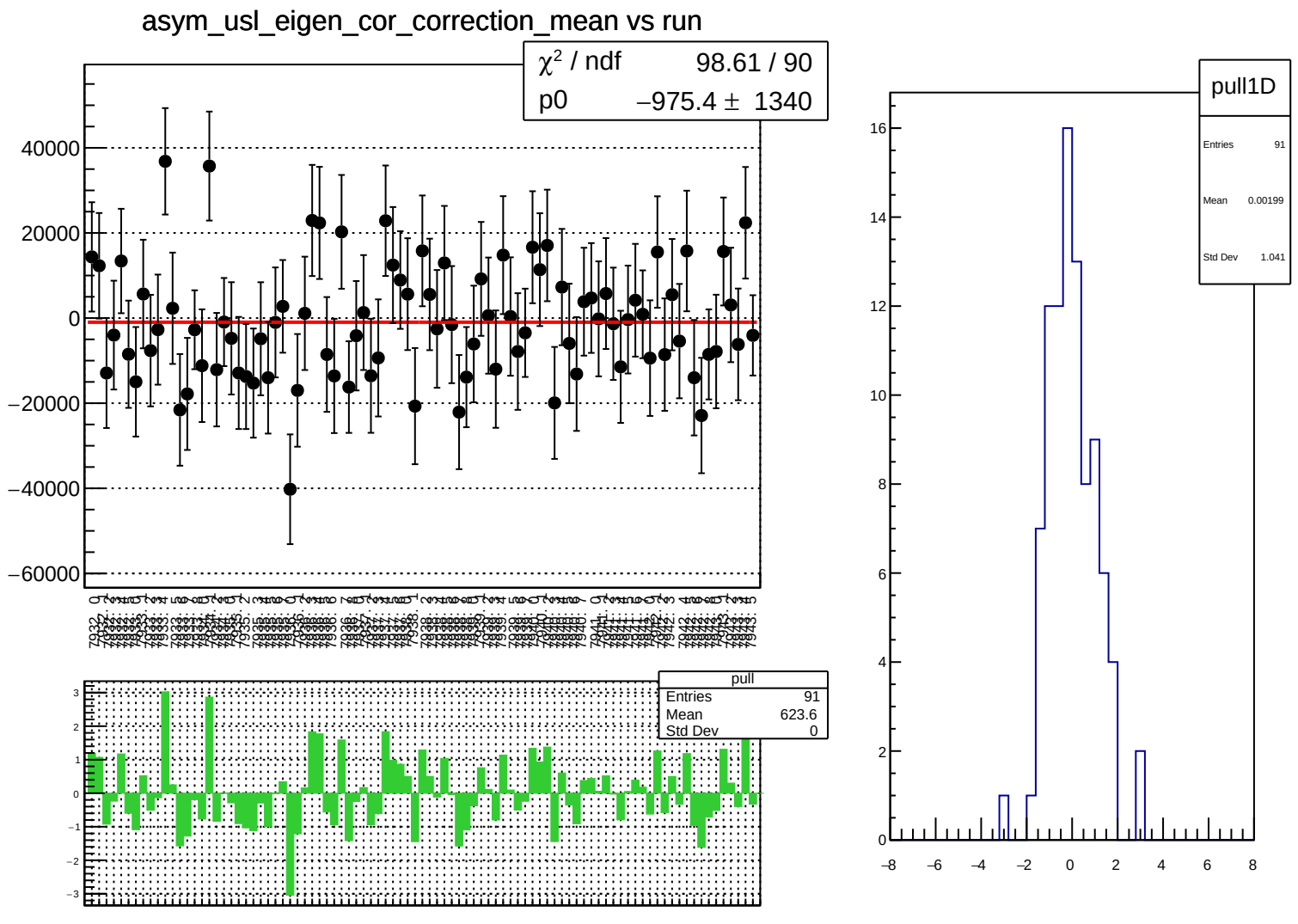

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 99.56 / 90
p0 −946.7 ± 1341
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 701.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.001972
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

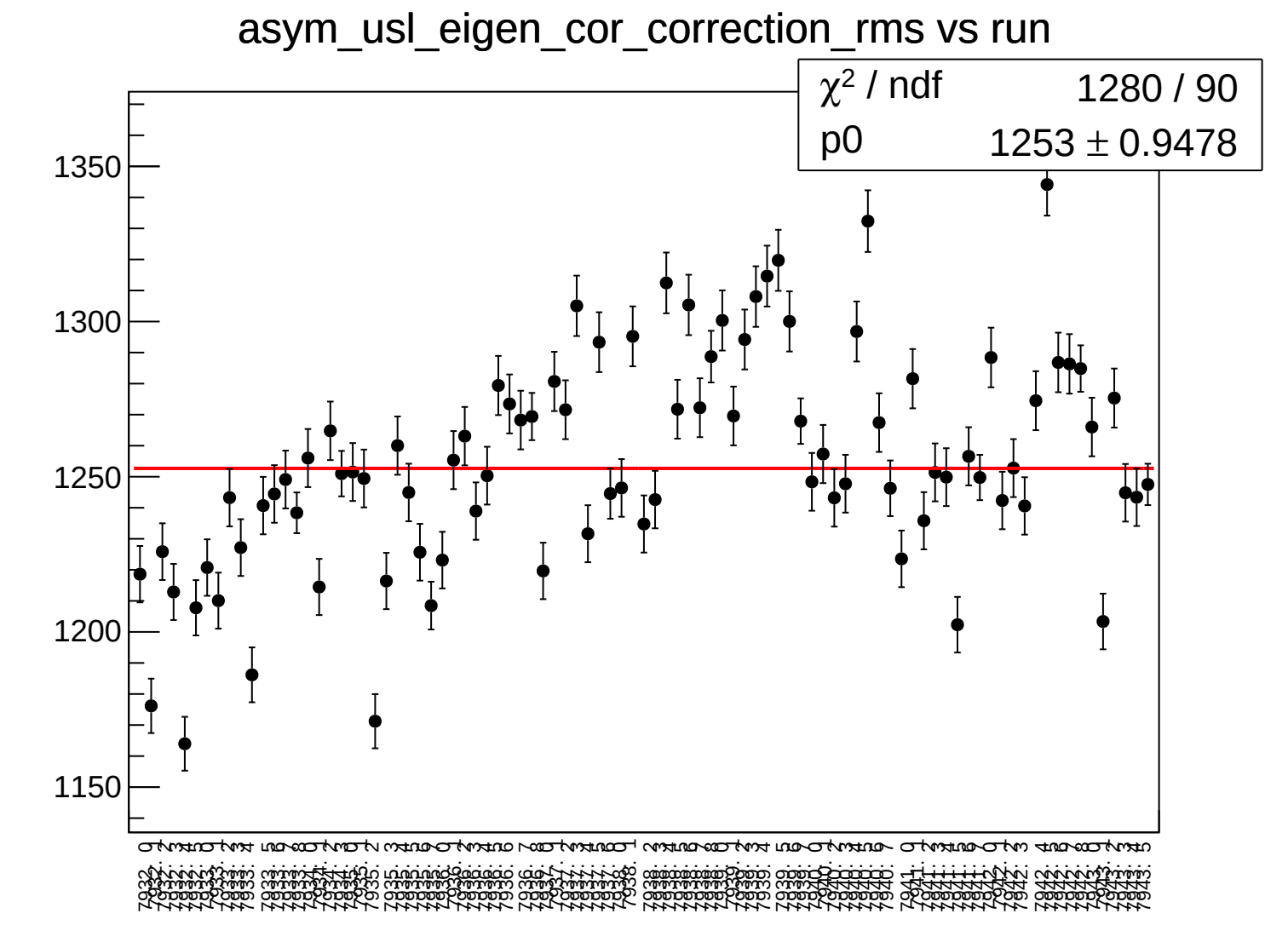

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1279 / 90
p0 1253 ± 0.9482
1350
1300
1250
1200
1150

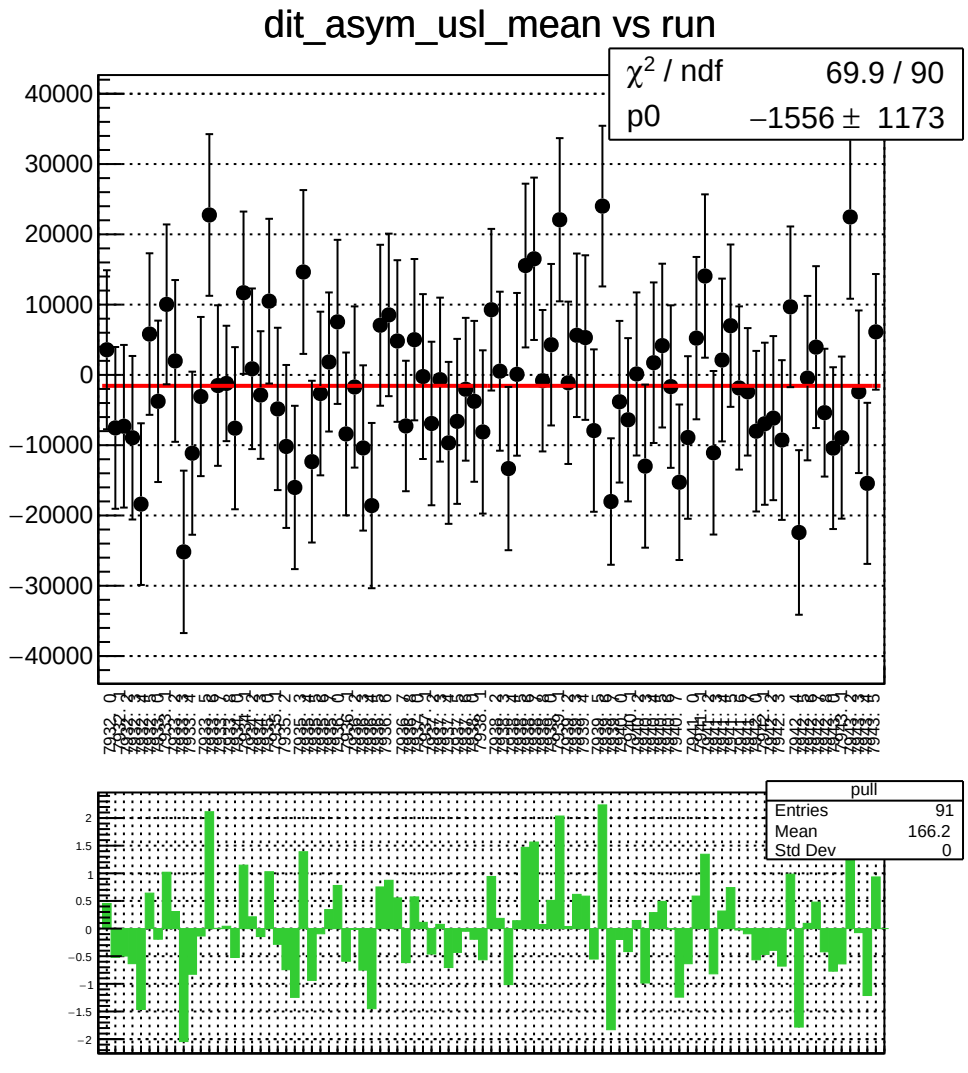

eigen_cor_asym_usl_mean vs run
χ² / ndf 70.58 / 90
p0 −1535 ± 1169
pull
Entries 91
Mean 267.2
Std Dev 0

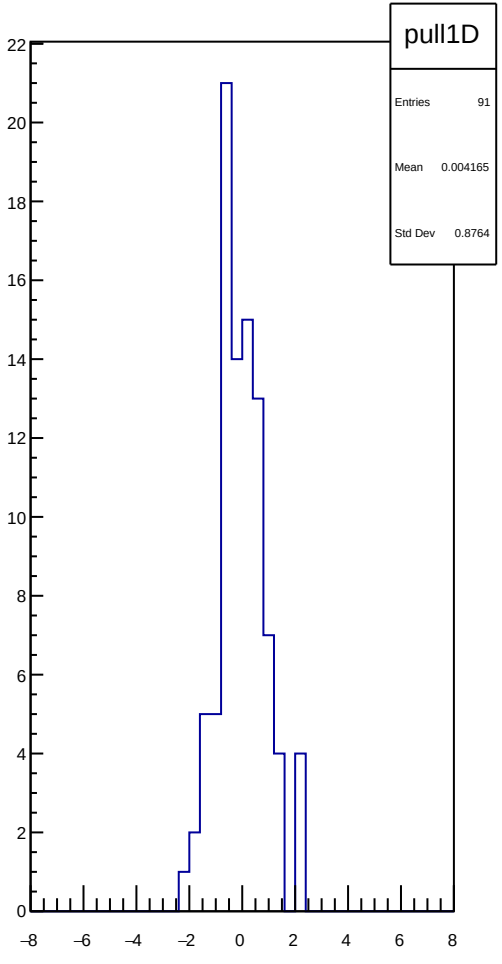

pull1D
Entries 91
Mean 0.003962
Std Dev 0.8807

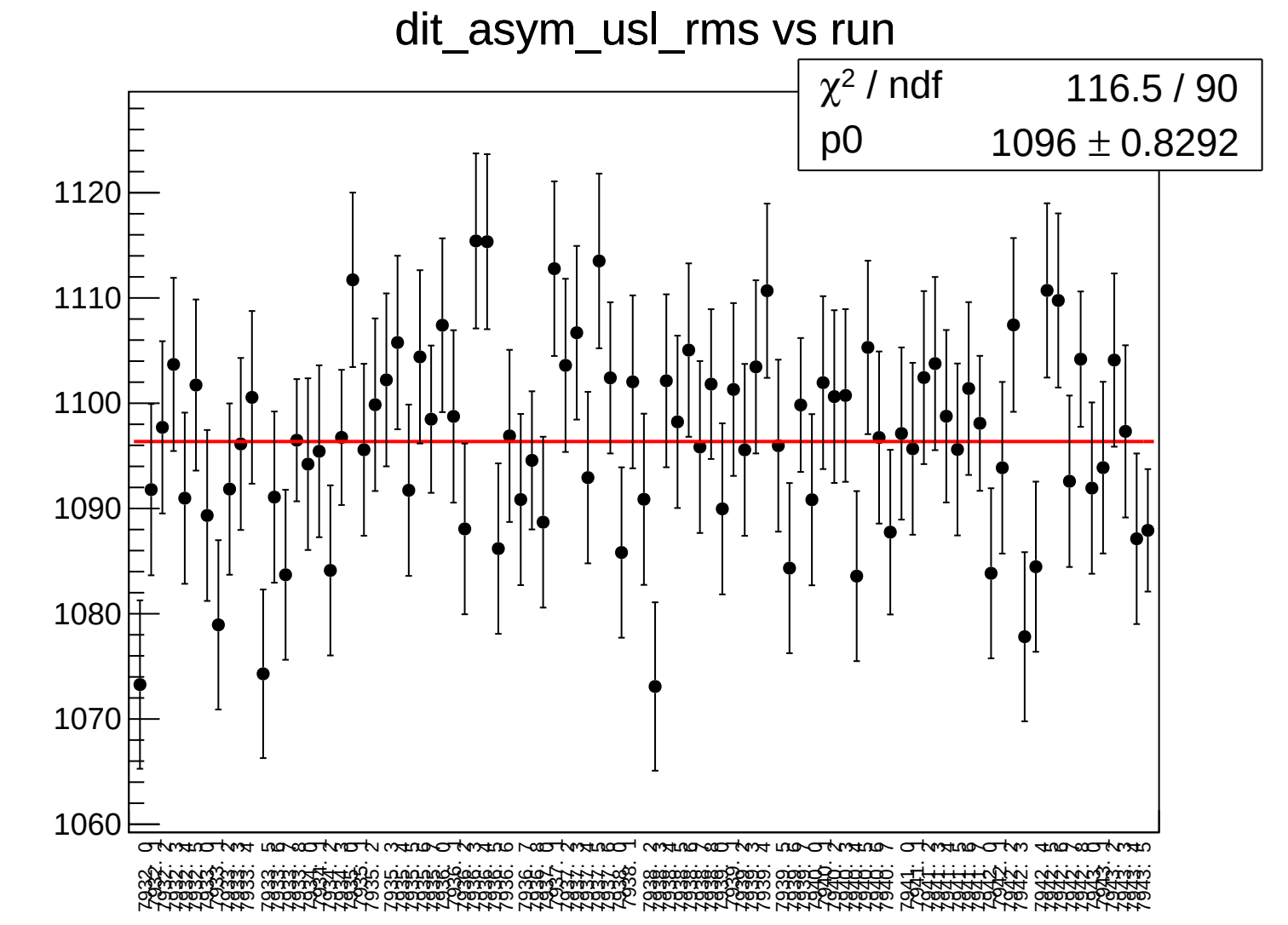

eigen_cor_asym_usl_rms vs run
χ² / ndf 106 / 90
p0 1092 ± 0.8263
1120
1110
1100
1090
1080
1070
1060

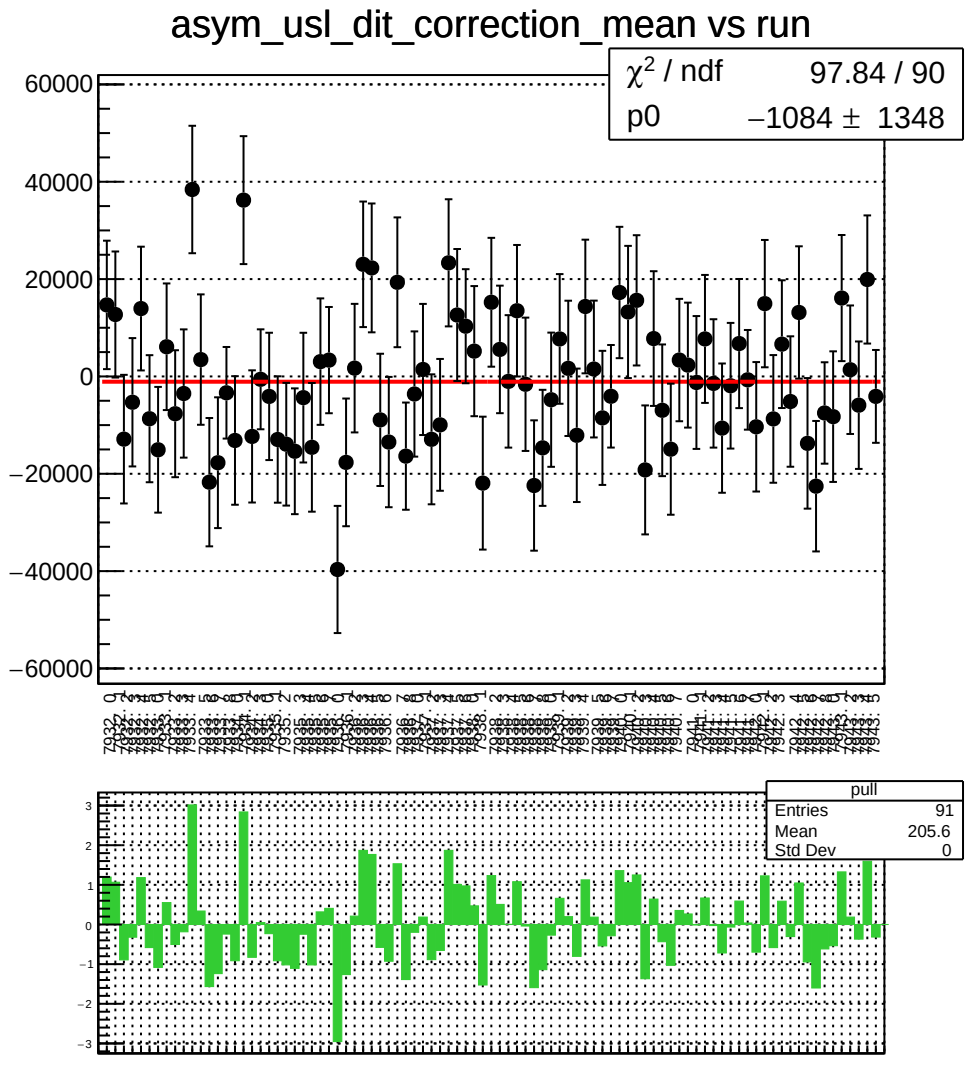

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 98.61 / 90
p0 −975.4 ± 1340
pull
Entries 91
Mean 623.6
Std Dev 0
pull1D
Entries 91
Mean 0.00199
Std Dev 1.041

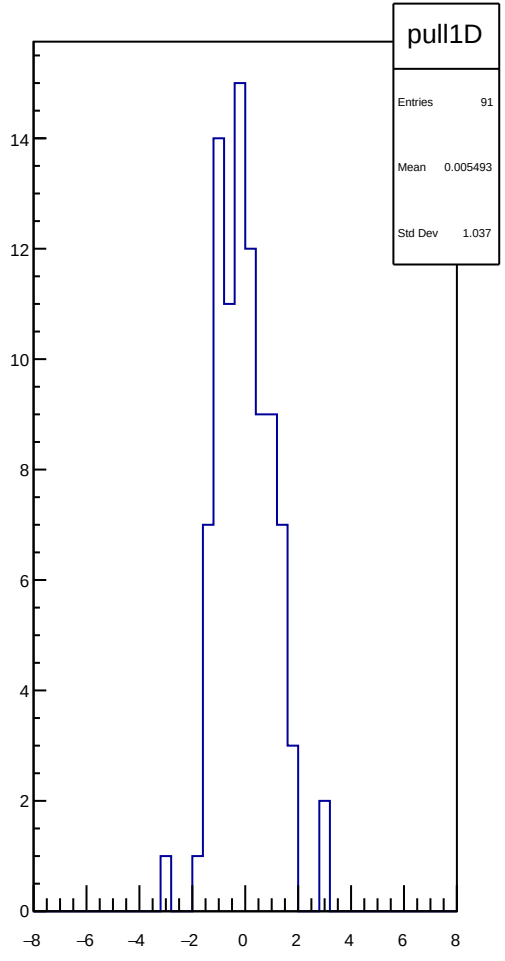

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1280 / 90
p0 1253 ± 0.9478
1350
1300
1250
1200
1150

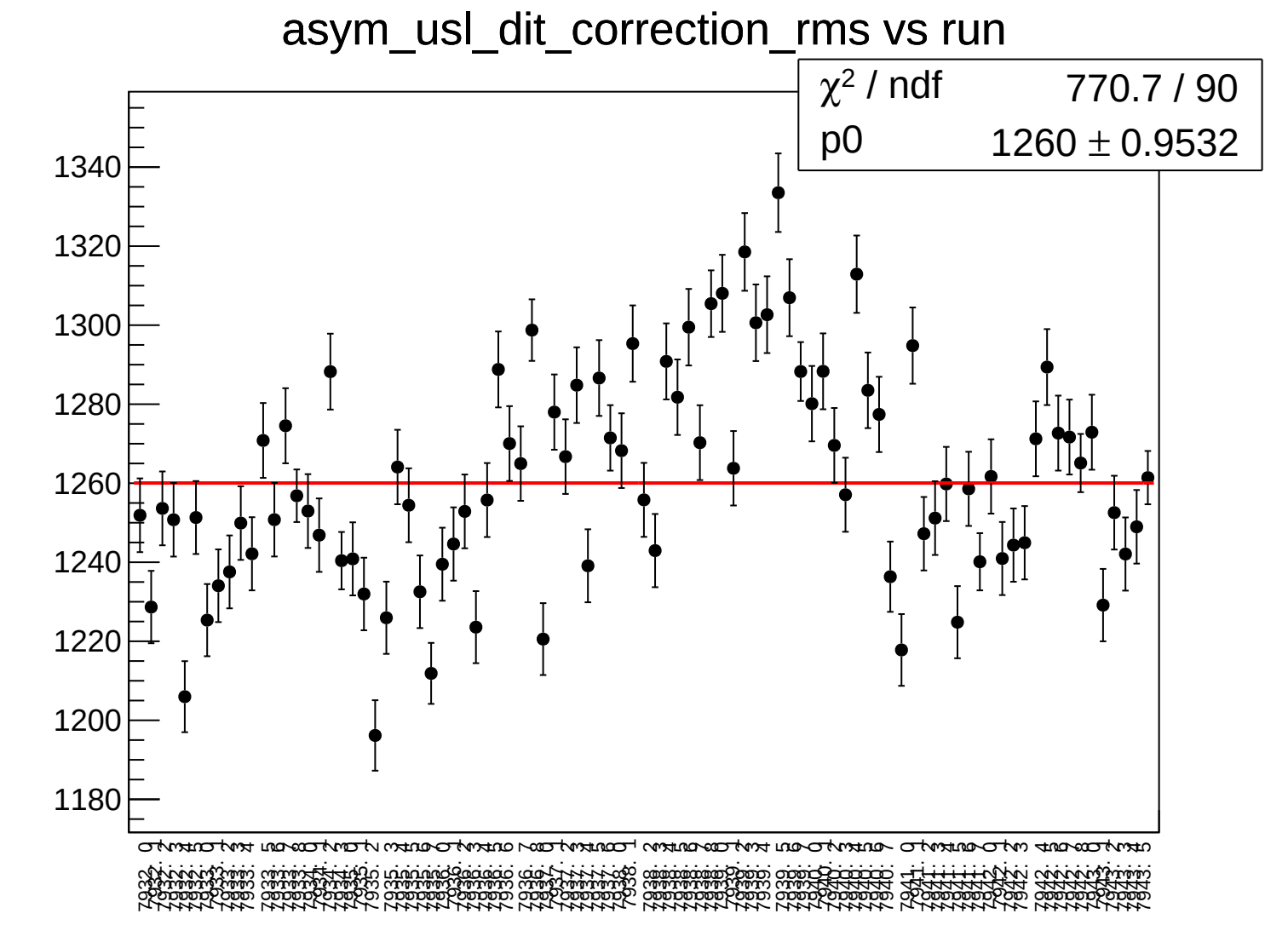

dit_asym_usl_mean vs run
χ² / ndf 69.9 / 90
p0 −1556 ± 1173
pull
Entries 91
Mean 166.2
Std Dev 0

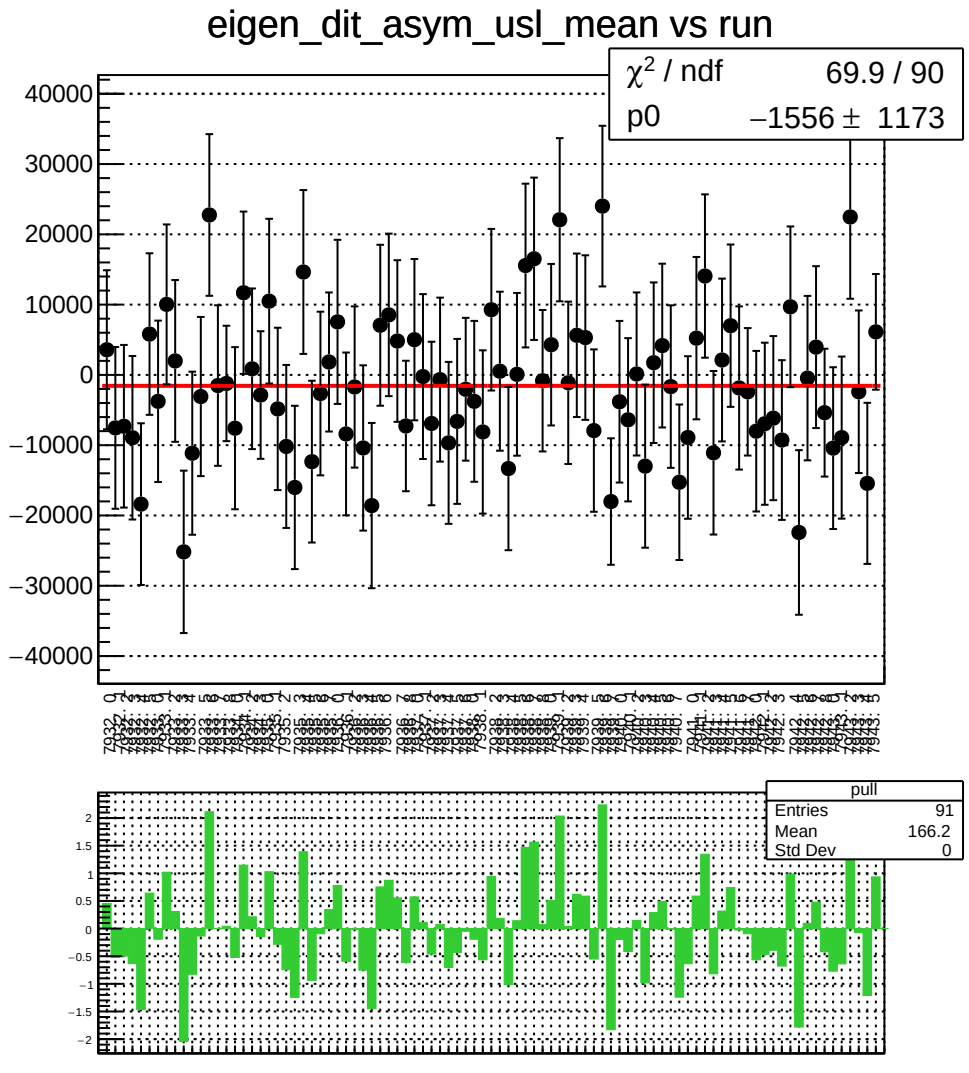

pull1D
Entries 91
Mean 0.004165
Std Dev 0.8764

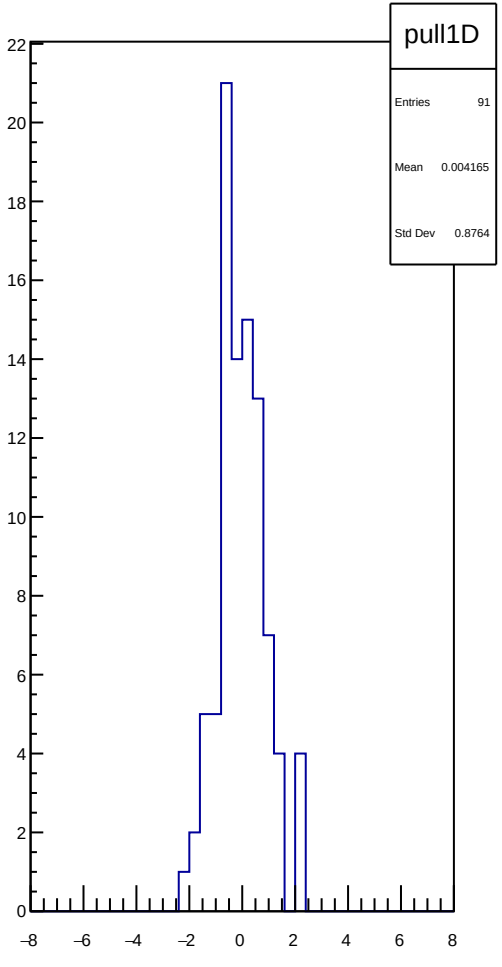

dit_asym_usl_rms vs run
χ^2 / ndf 116.5 / 90
p0 1096 ± 0.8292
1120
1110
1100
1090
1080
1070
1060

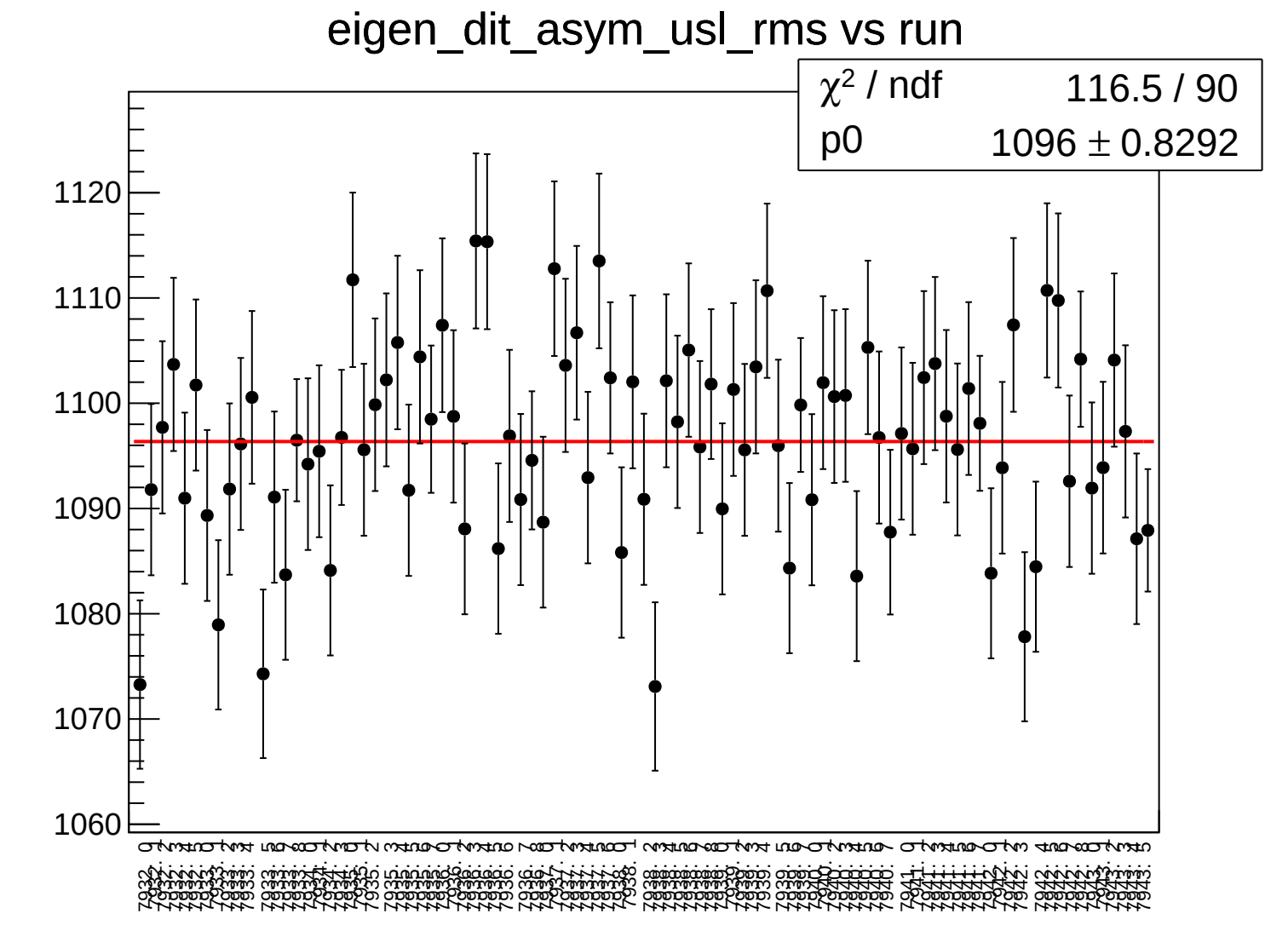

asym_usl_dit_correction_mean vs run
χ² / ndf 97.84 / 90
p0 −1084 ± 1348
pull
Entries 91
Mean 205.6
Std Dev 0

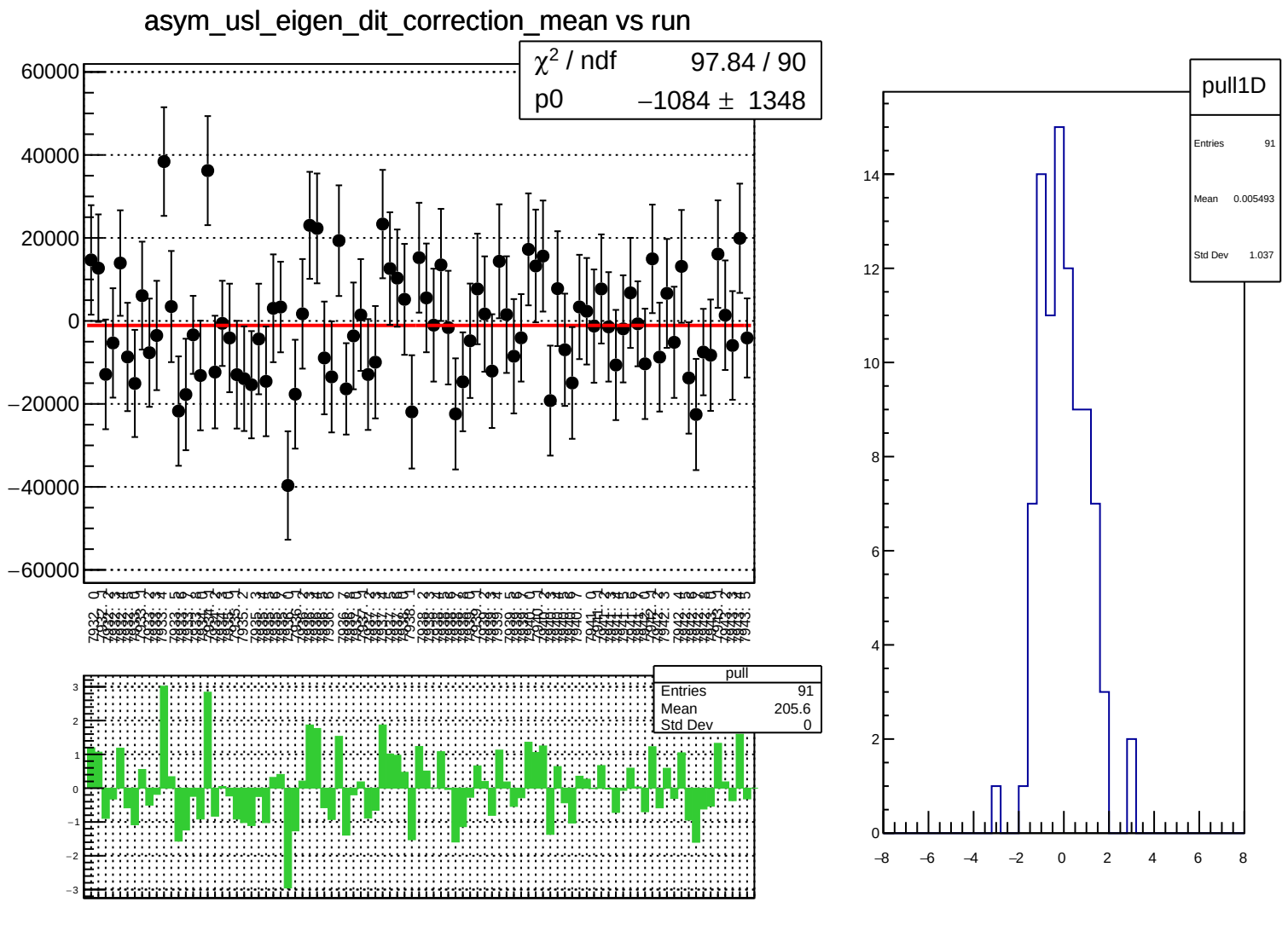

pull1D
Entries 91
Mean 0.005493
Std Dev 1.037

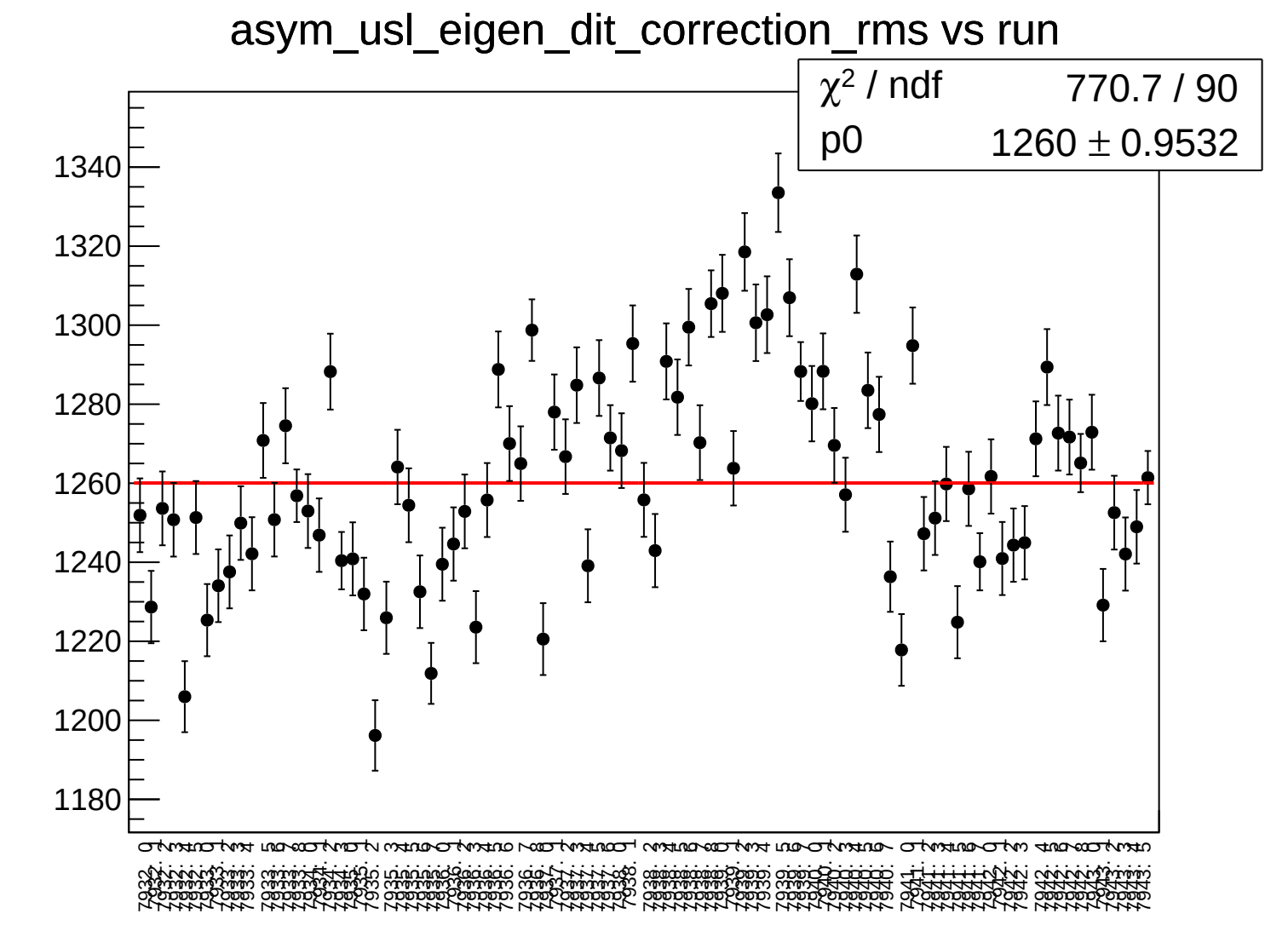

asym_usl_dit_correction_rms vs run
χ² / ndf 770.7 / 90
p0 1260 ± 0.9532
1340
1320
1300
1280
1260
1240
1220
1200
1180

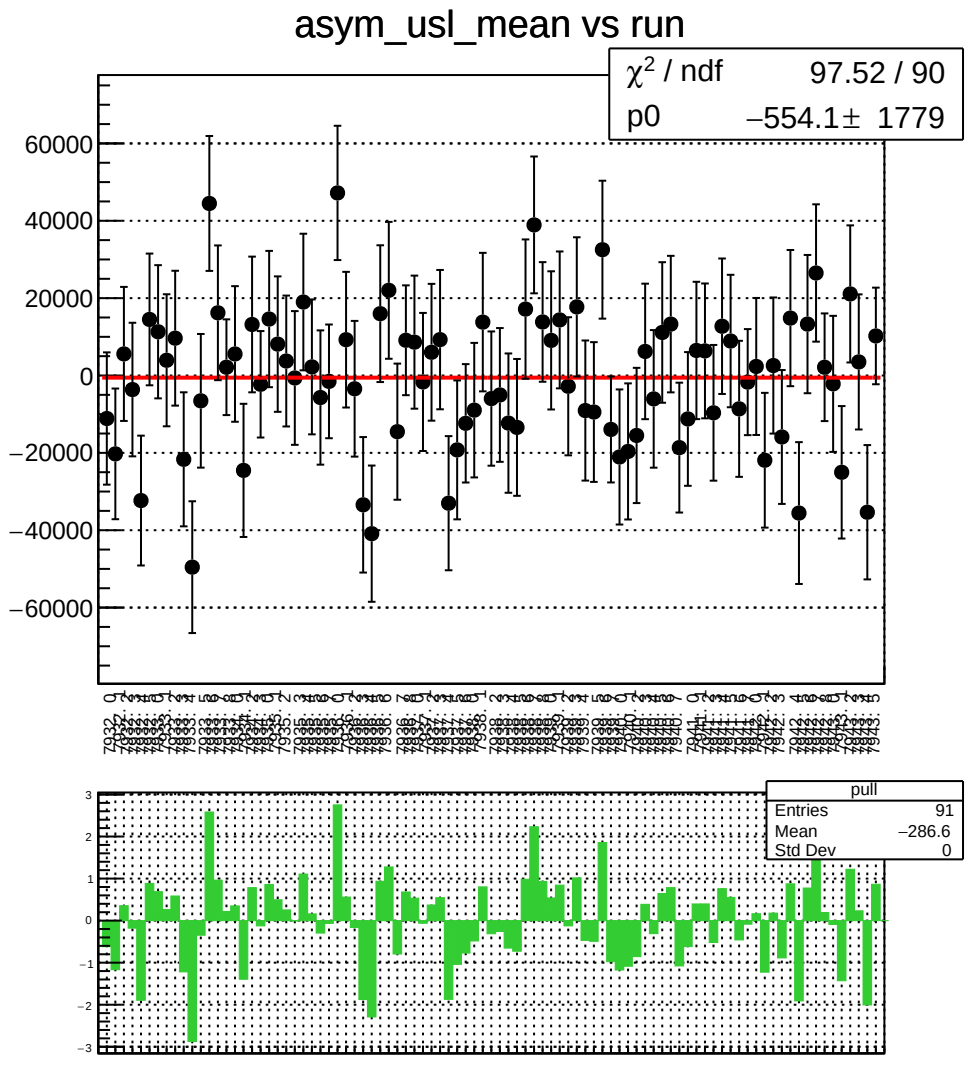

eigen_dit_asym_usl_mean vs run
χ² / ndf 69.9 / 90
p0 −1556 ± 1173
pull
Entries 91
Mean 166.2
Std Dev 0

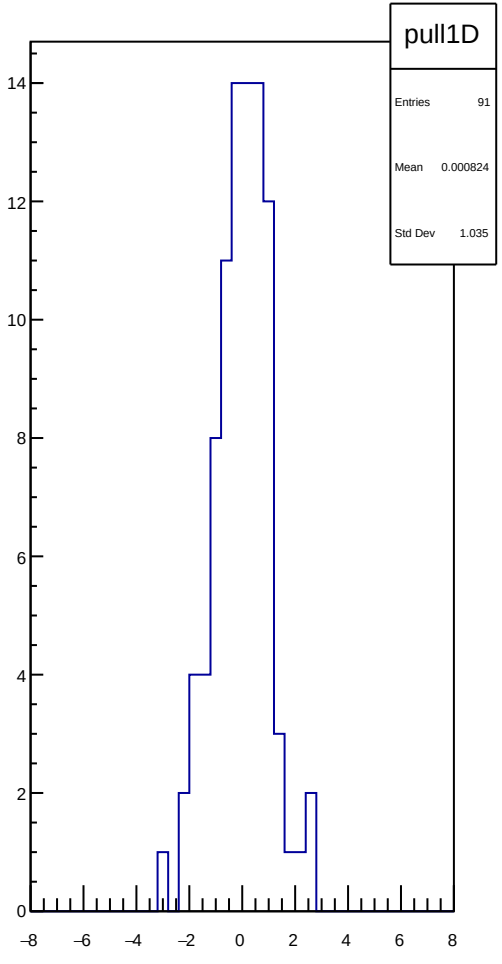

pull1D
Entries 91
Mean 0.004165
Std Dev 0.8764

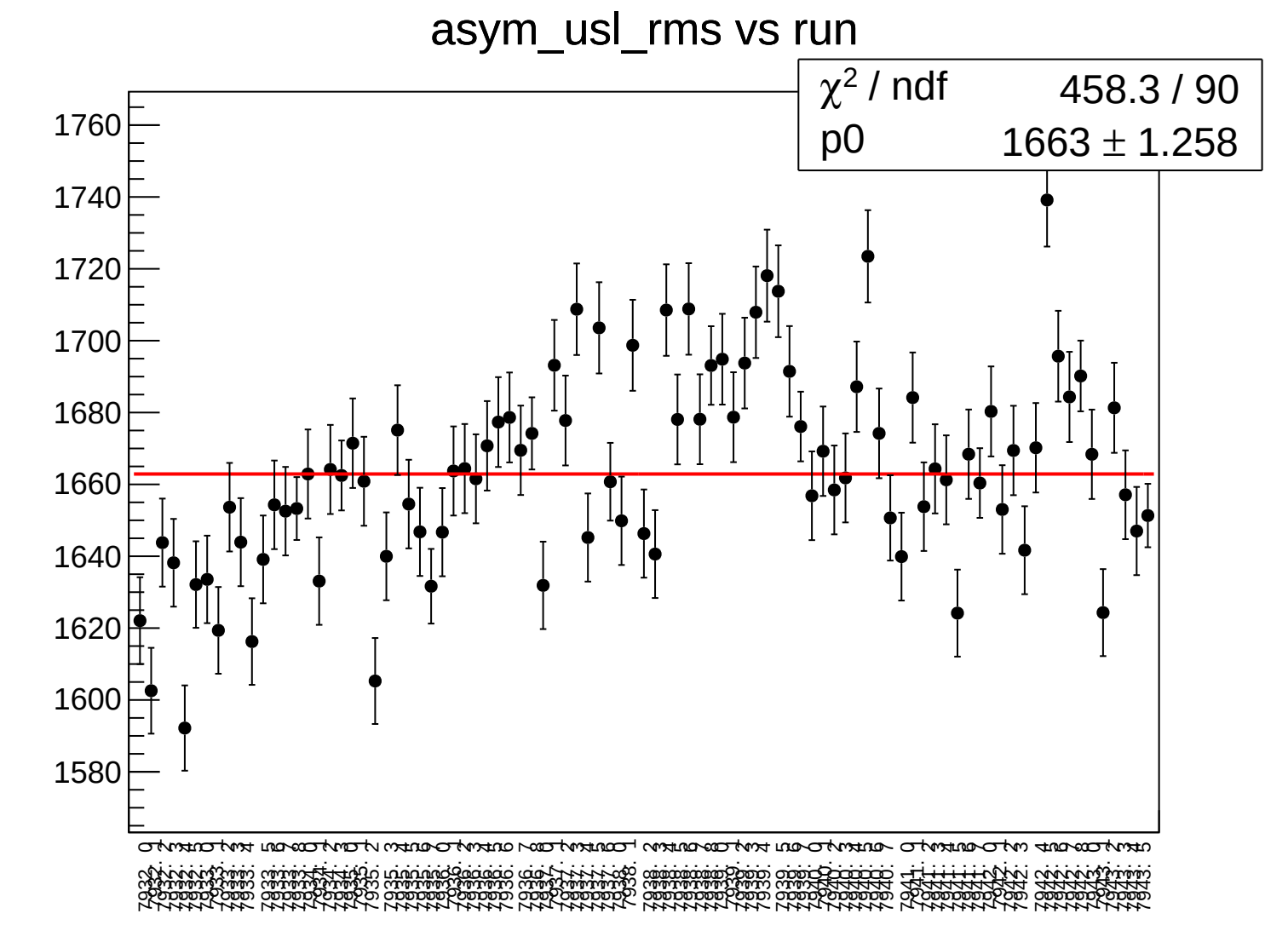

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 116.5 / 90
p0 1096 ± 0.8292
1120
1110
1100
1090
1080
1070
1060

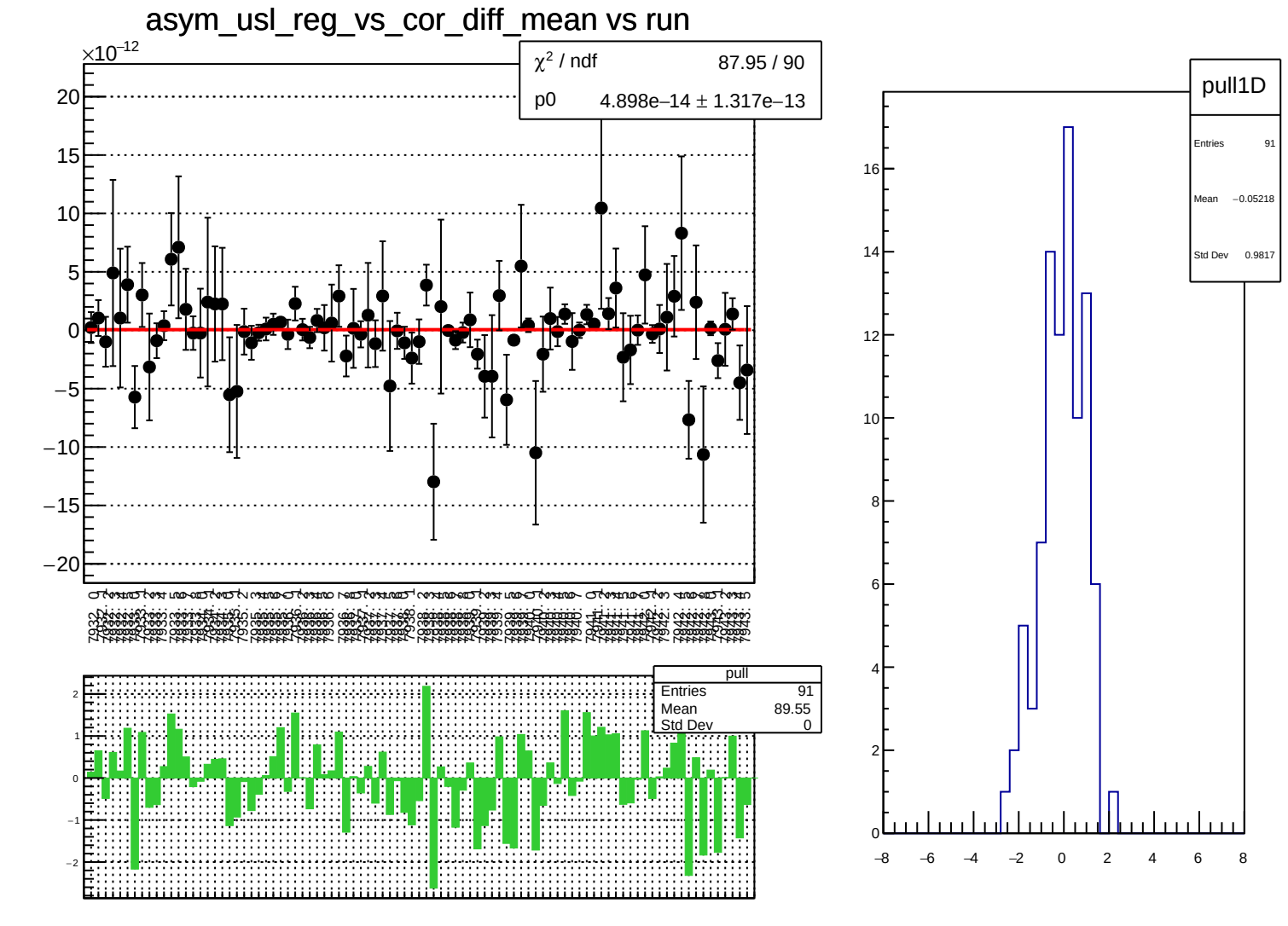

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 97.84 / 90
p0 −1084 ± 1348
pull
Entries 91
Mean 205.6
Std Dev 0
pull1D
Entries 91
Mean 0.005493
Std Dev 1.037

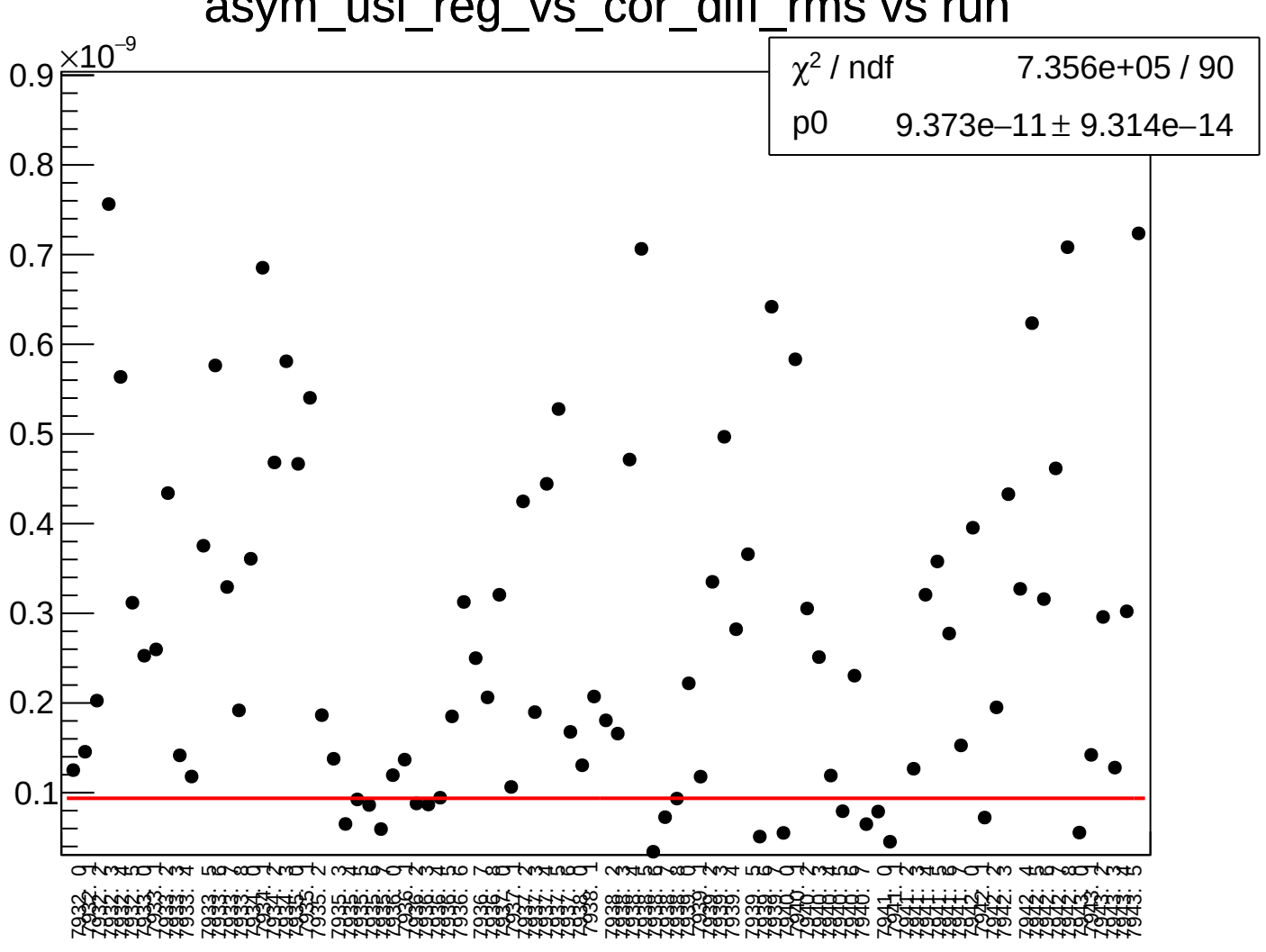

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 770.7 / 90
p0 1260 ± 0.9532
1340
1320
1300
1280
1260
1240
1220
1200
1180

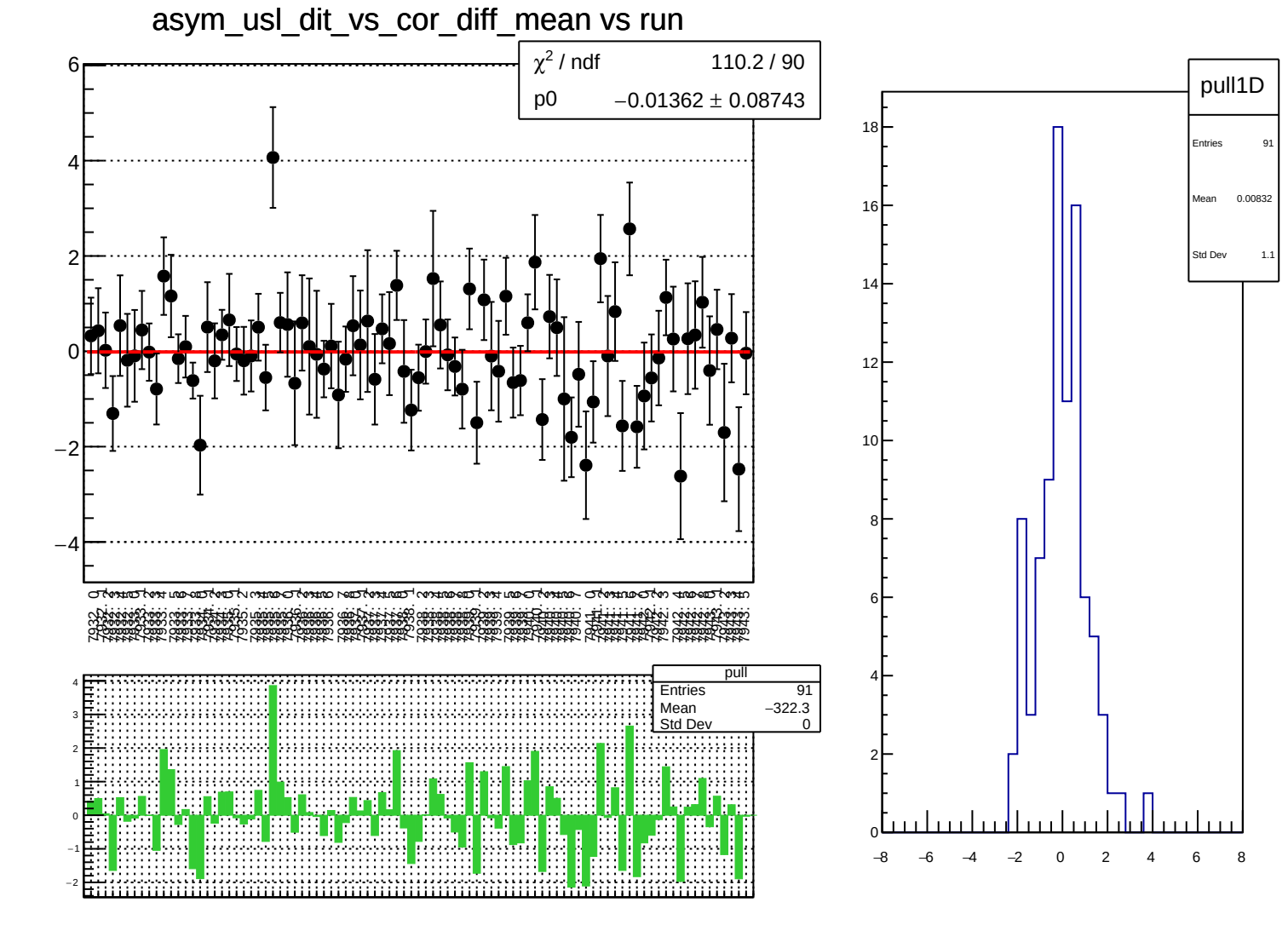

asym_usl_mean vs run
χ² / ndf 97.52 / 90
p0 −554.1± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −286.6
Std Dev 0
3
2
1
0
−1
−2
−3

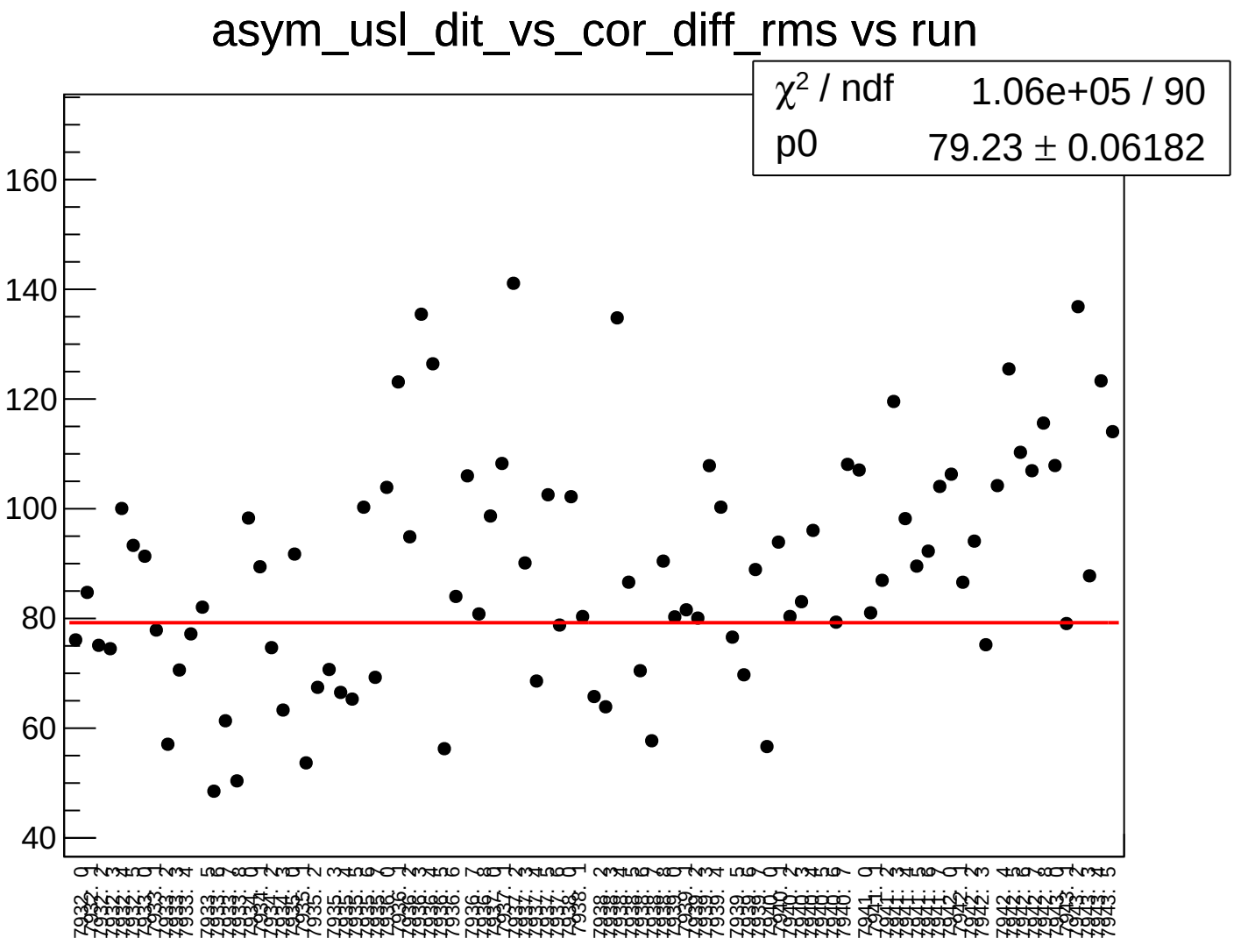

pull1D
Entries 91
Mean 0.000824
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

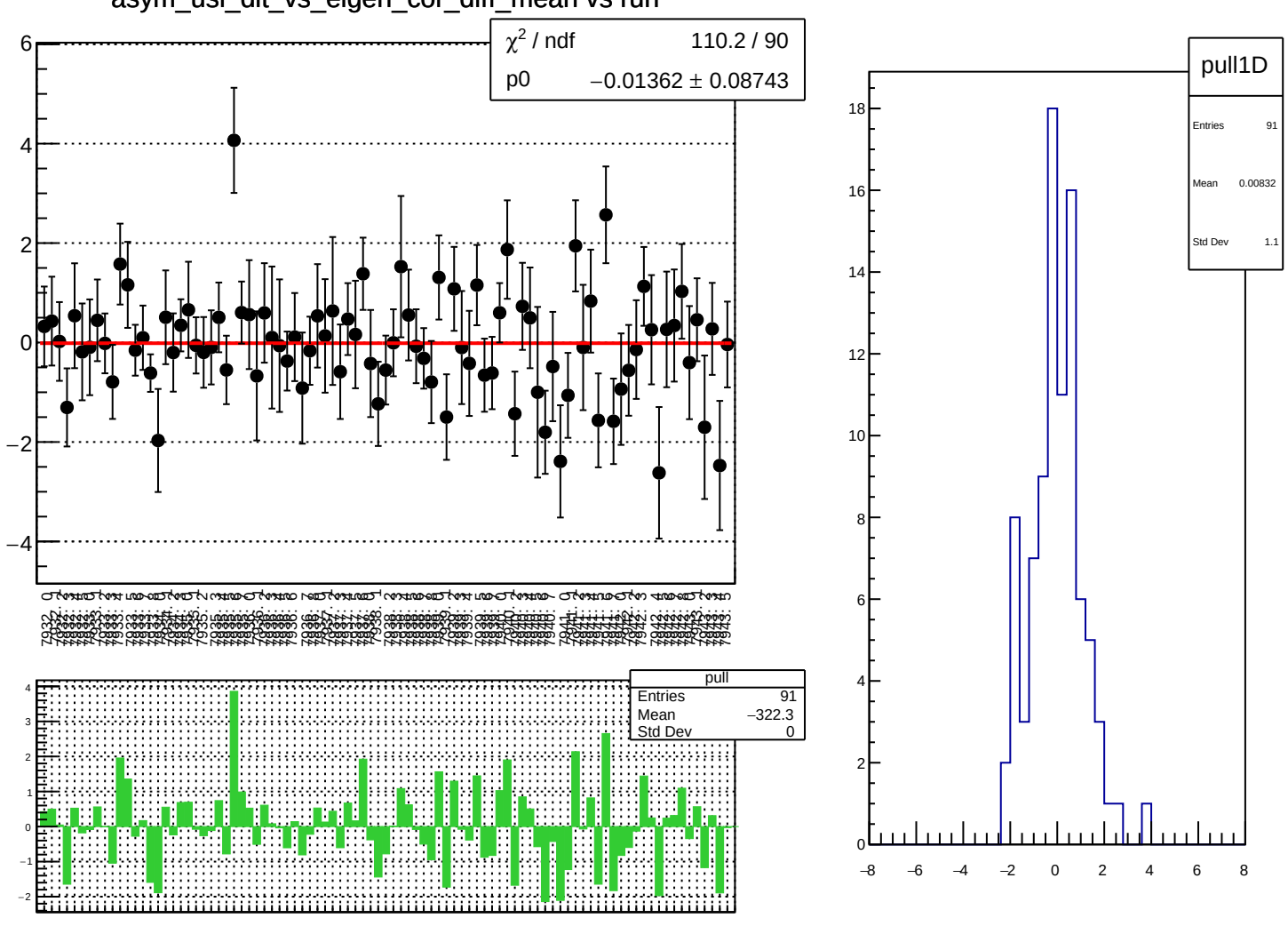

asym_usl_rms vs run
χ² / ndf 458.3 / 90
p0 1663 ± 1.258
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

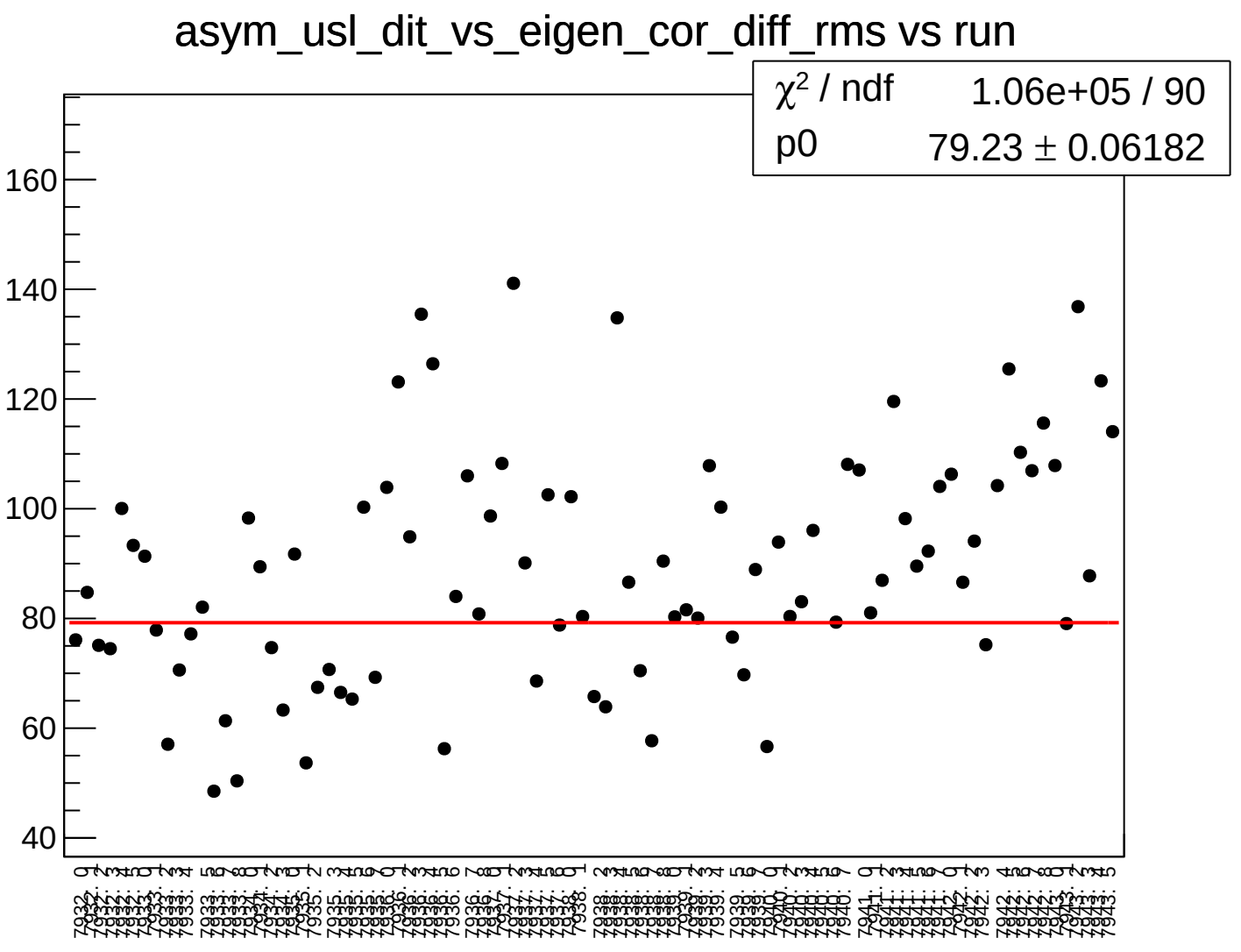

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.95 / 90
p0 4.898e−14 ± 1.317e−13
pull
Entries 91
Mean 89.55
Std Dev 0
pull1D
Entries 91
Mean −0.05218
Std Dev 0.9817

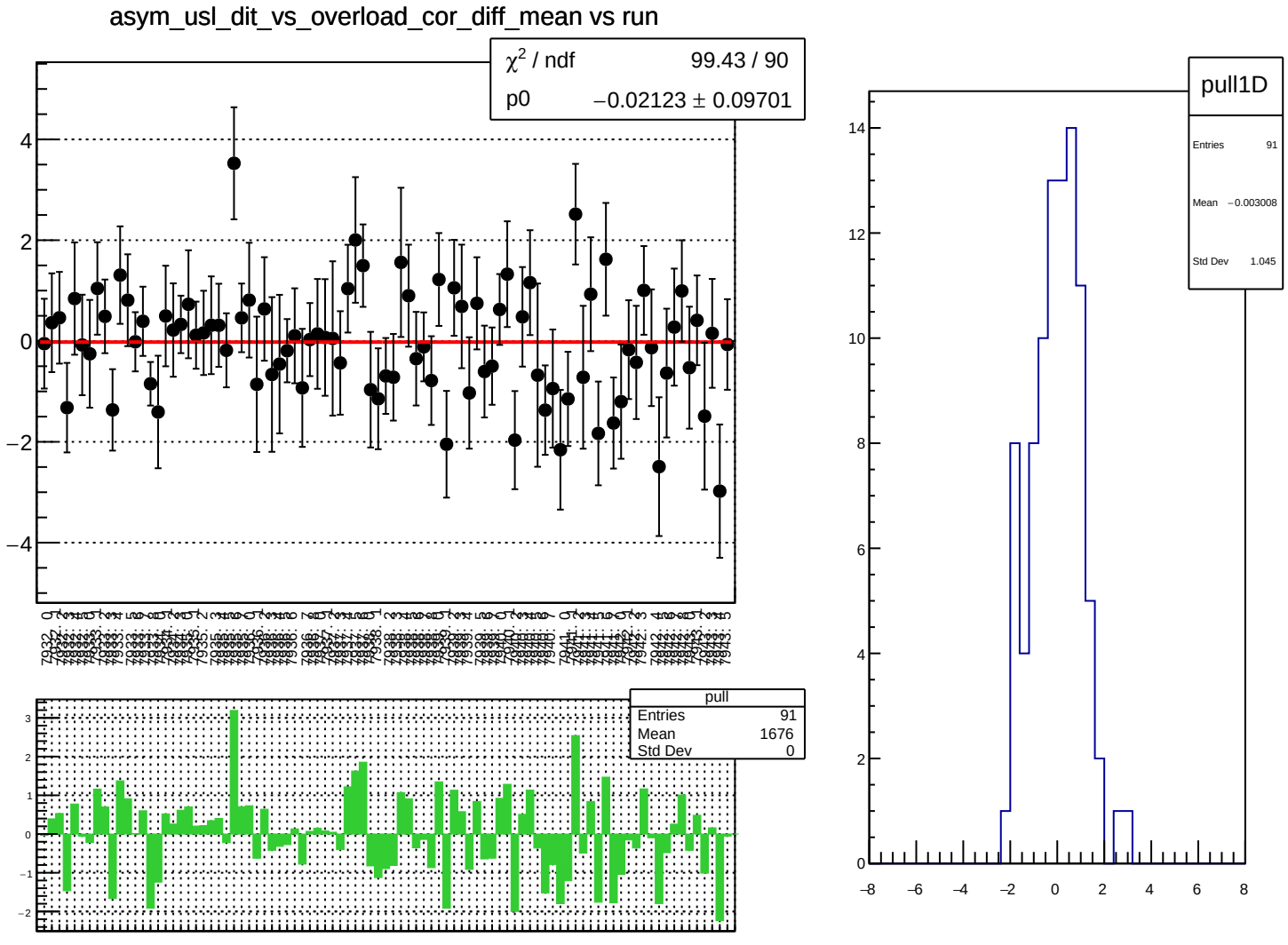

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.356e+05 / 90
p0 9.373e−11 ± 9.314e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

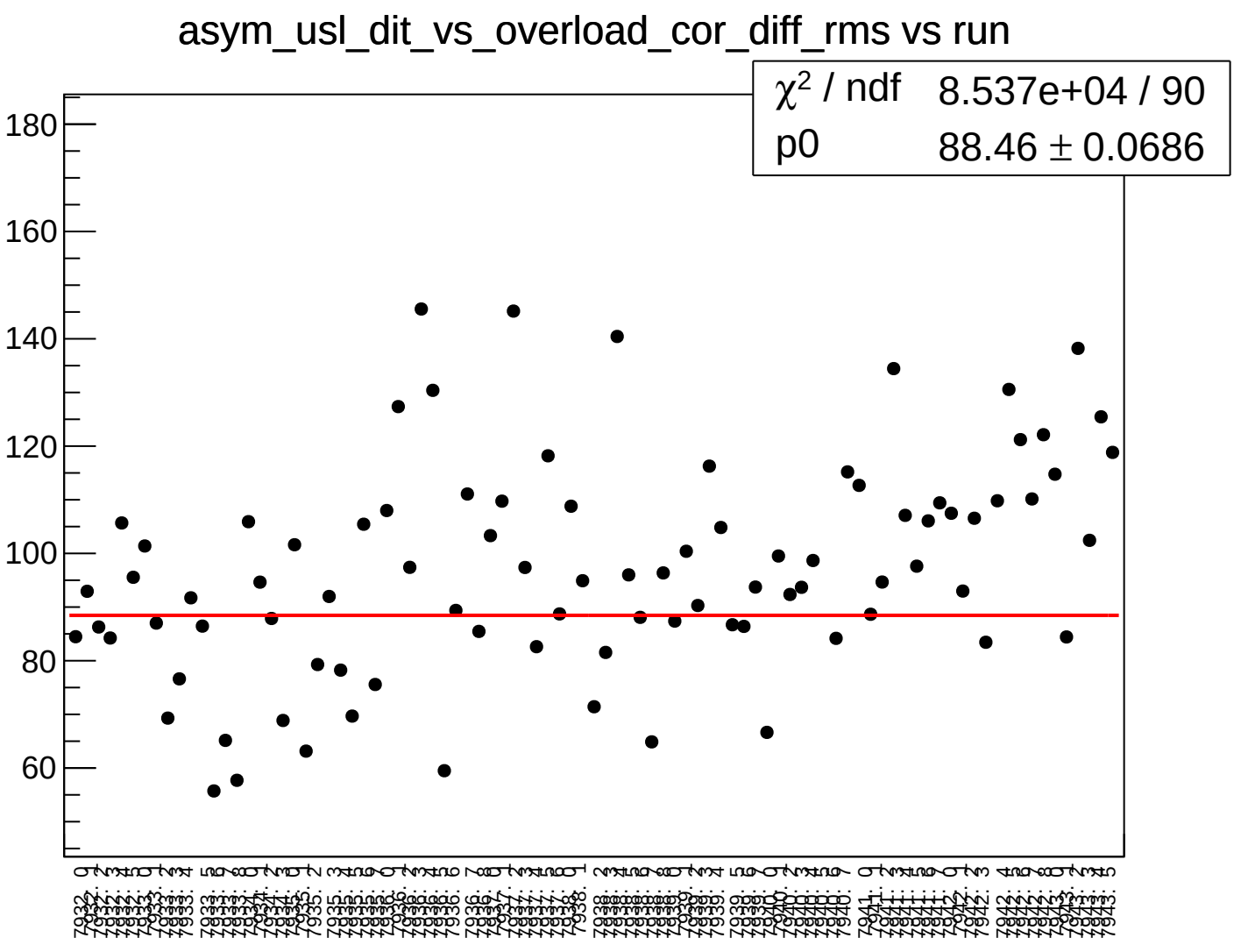

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 110.2 / 90
p0 −0.01362 ± 0.08743
pull
Entries 91
Mean −322.3
Std Dev 0
pull1D
Entries 91
Mean 0.00832
Std Dev 1.1

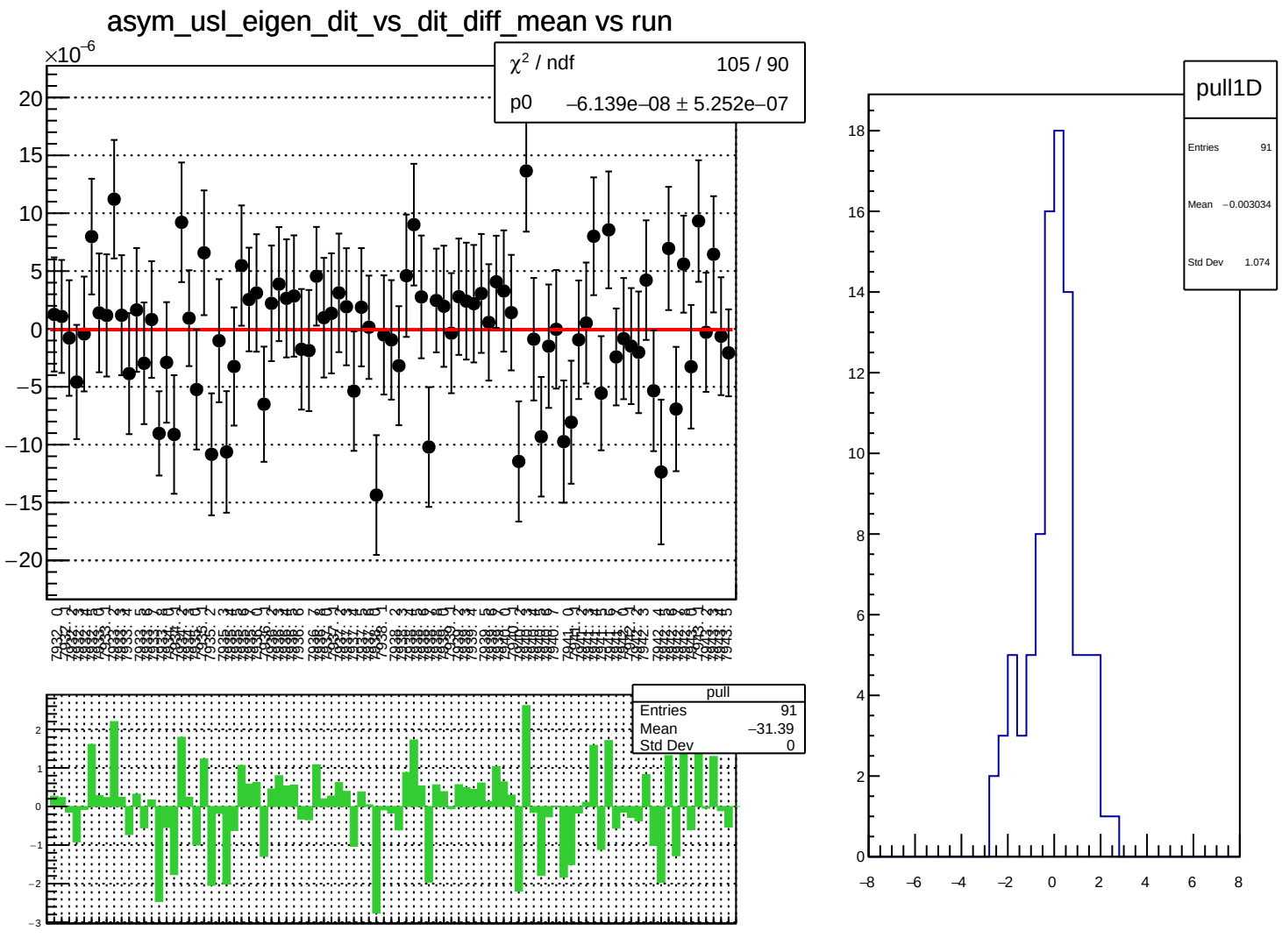

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.06e+05 / 90
p0 79.23 ± 0.06182
160
140
120
100
80
60
40

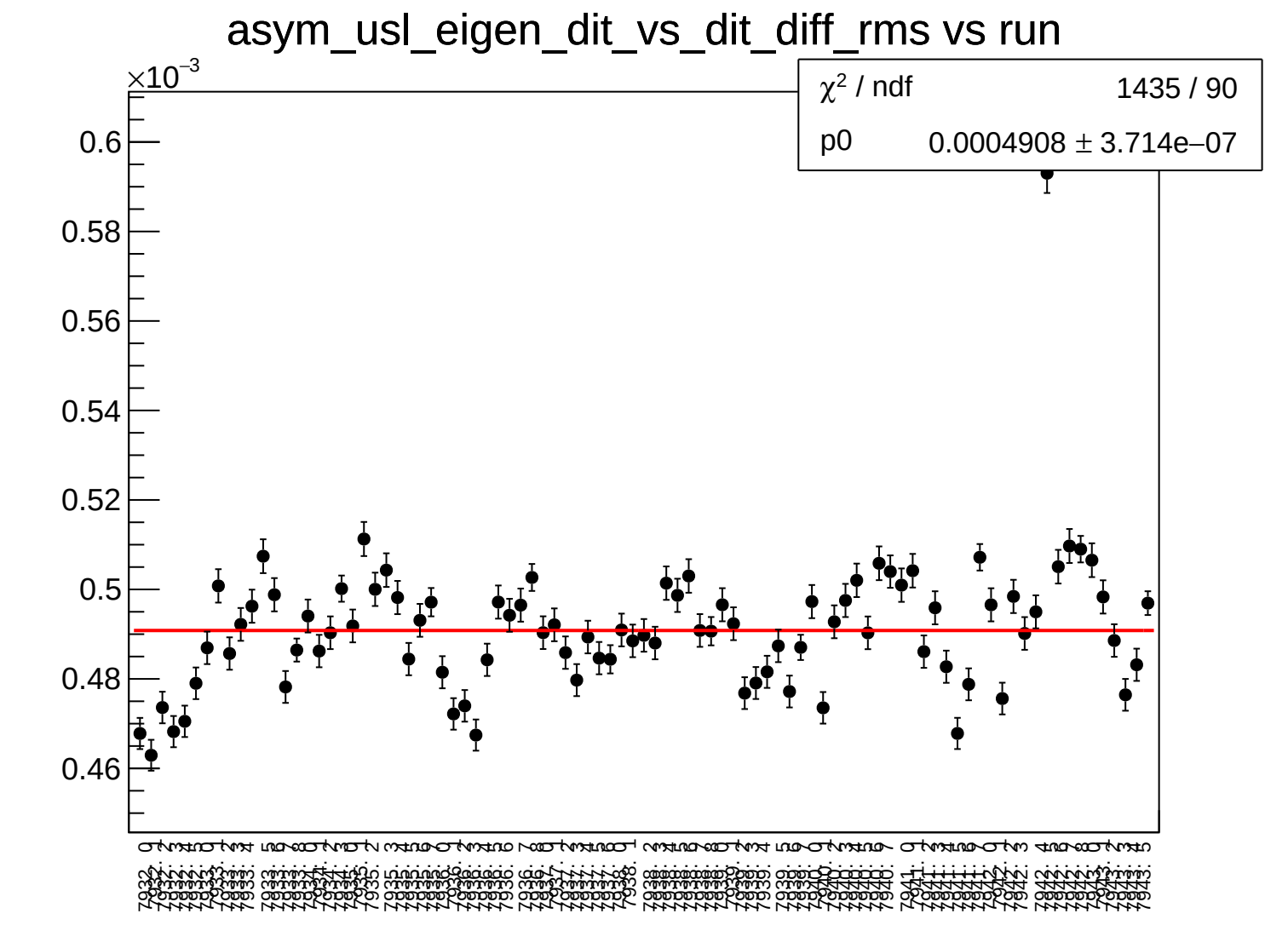

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.2 / 90
p0 −0.01362 ± 0.08743
pull
Entries 91
Mean −322.3
Std Dev 0
pull1D
Entries 91
Mean 0.00832
Std Dev 1.1

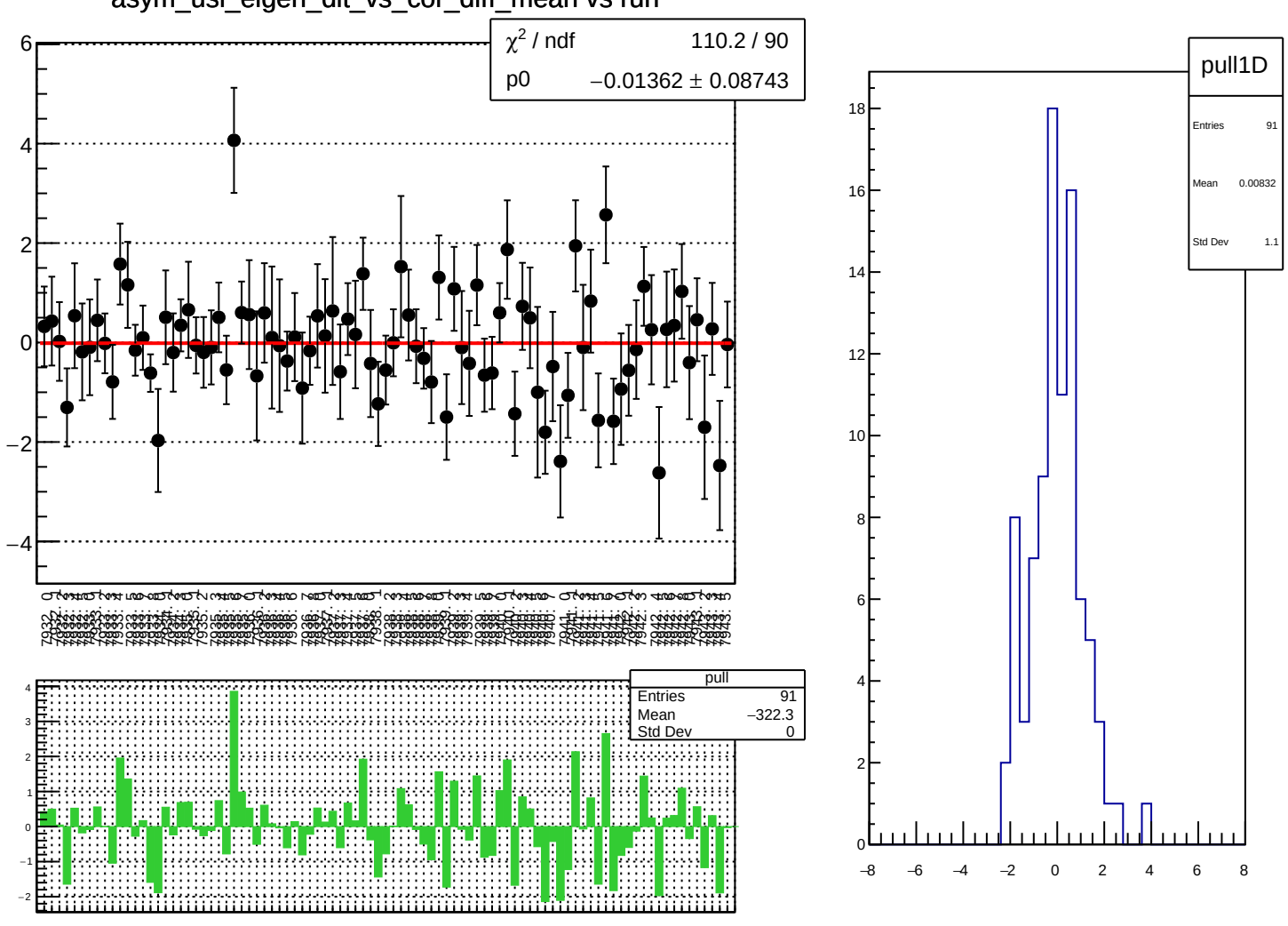

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.06e+05 / 90
p0 79.23 ± 0.06182
160
140
120
100
80
60
40

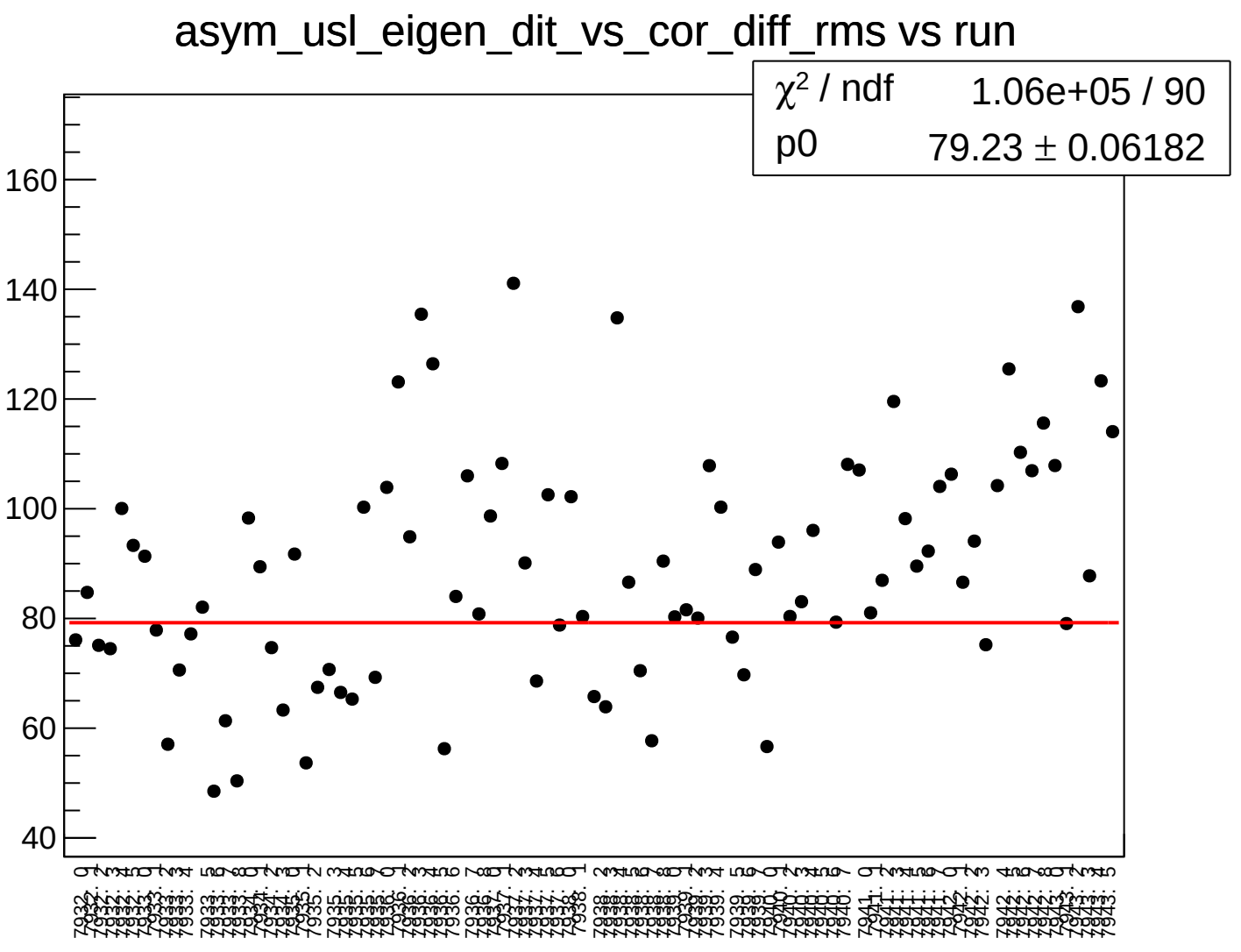

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 99.43 / 90
p0 −0.02123 ± 0.09701
pull
Entries 91
Mean 1676
Std Dev 0
pull1D
Entries 91
Mean −0.003008
Std Dev 1.045

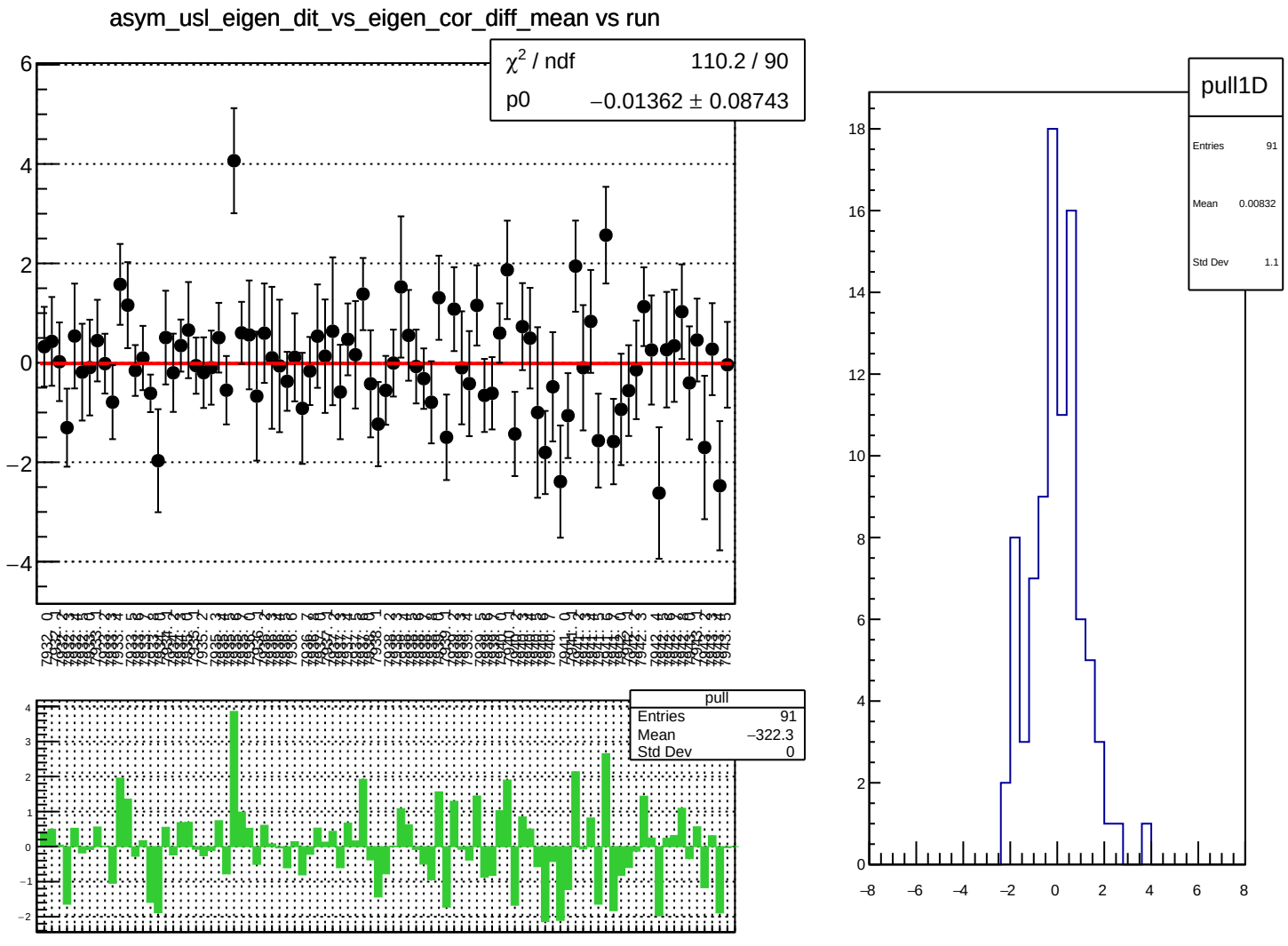

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.537e+04 / 90
p0 88.46 ± 0.0686
180
160
140
120
100
80
60

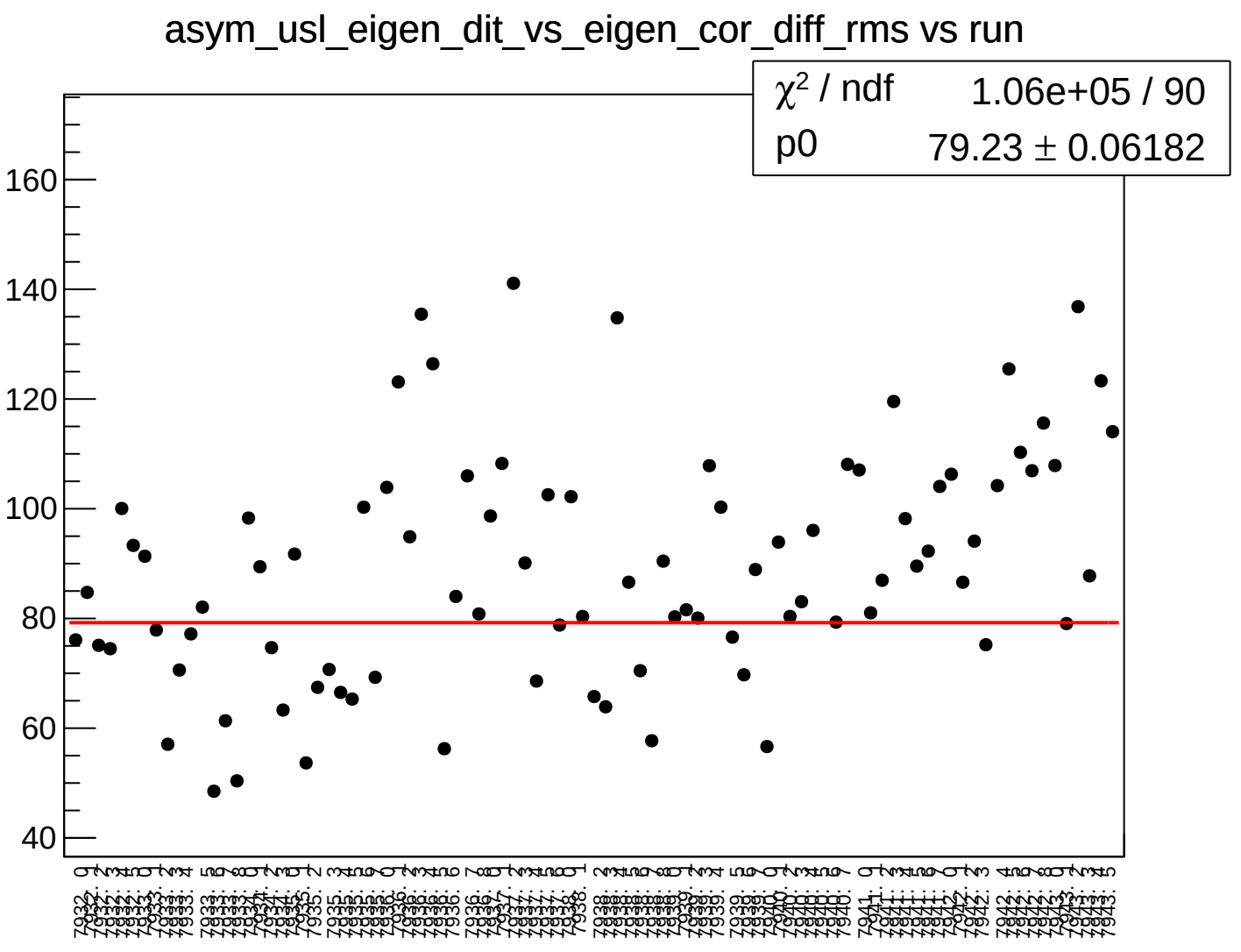

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 105 / 90
p0 −6.139e−08 ± 5.252e−07
pull
Entries 91
Mean −31.39
Std Dev 0
pull1D
Entries 91
Mean −0.003034
Std Dev 1.074

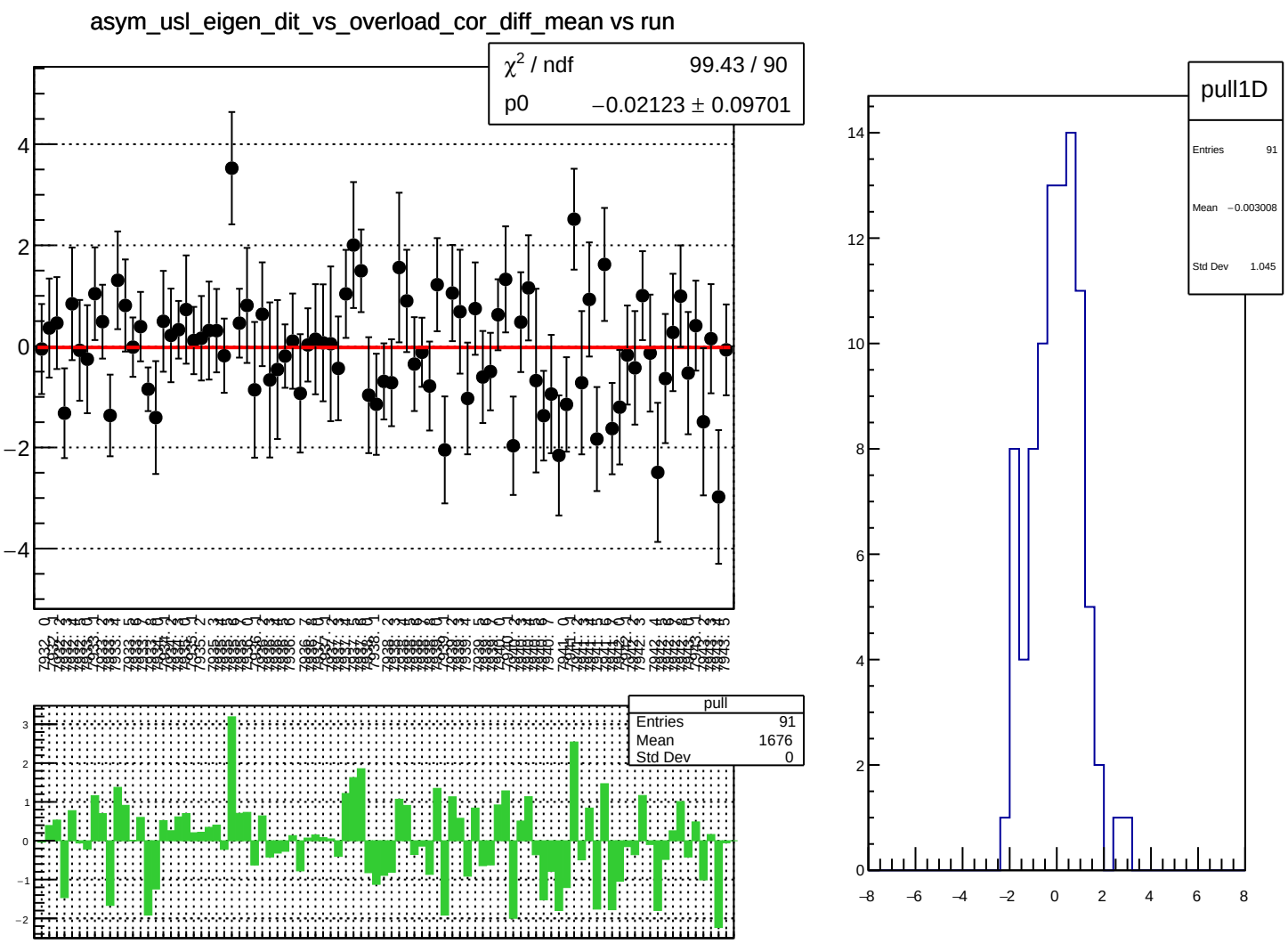

asym_usl_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1435 / 90
p0 0.0004908 ± 3.714e−07
0.6
0.58
0.56
0.54
0.52
0.5
0.48
0.46

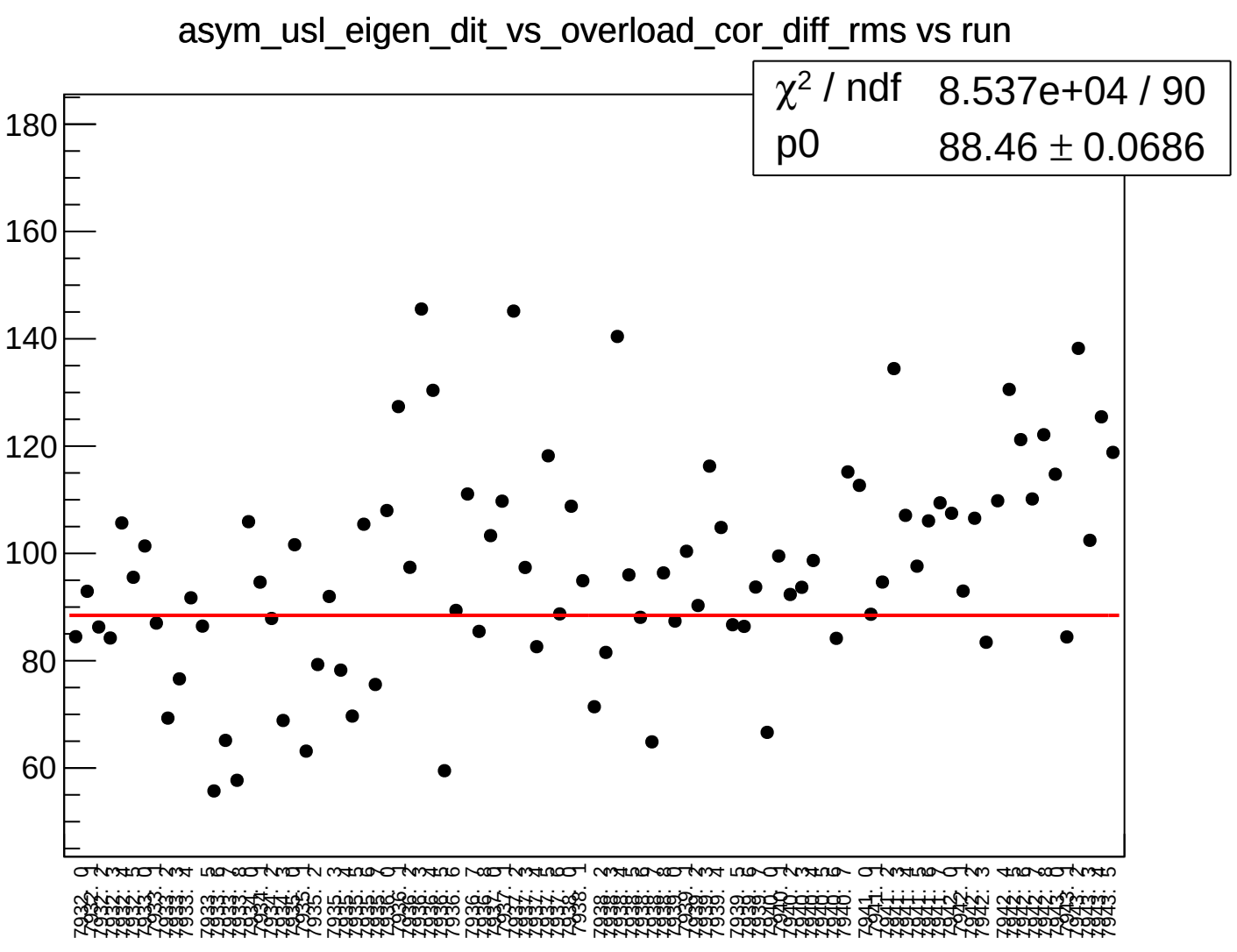

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.2 / 90
p0 −0.01362 ± 0.08743
pull
Entries 91
Mean −322.3
Std Dev 0
pull1D
Entries 91
Mean 0.00832
Std Dev 1.1

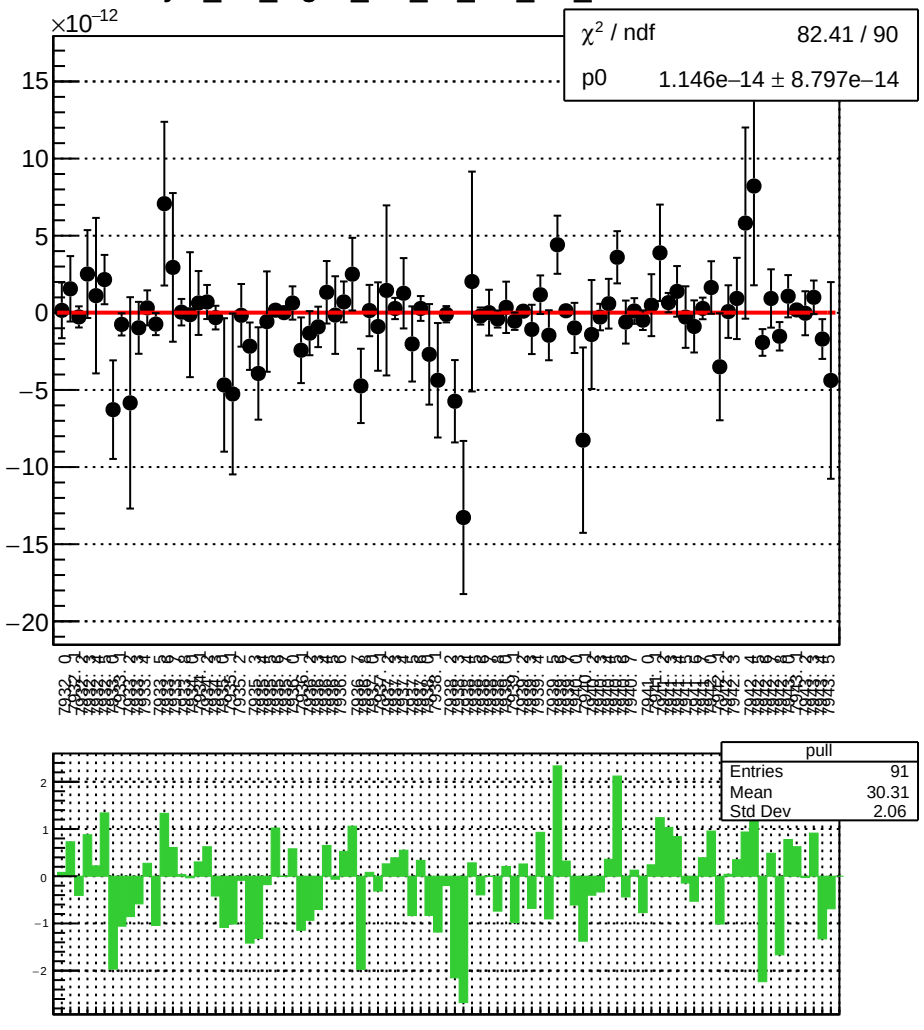

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.06e+05 / 90
p0 79.23 ± 0.06182
160
140
120
100
80
60
40

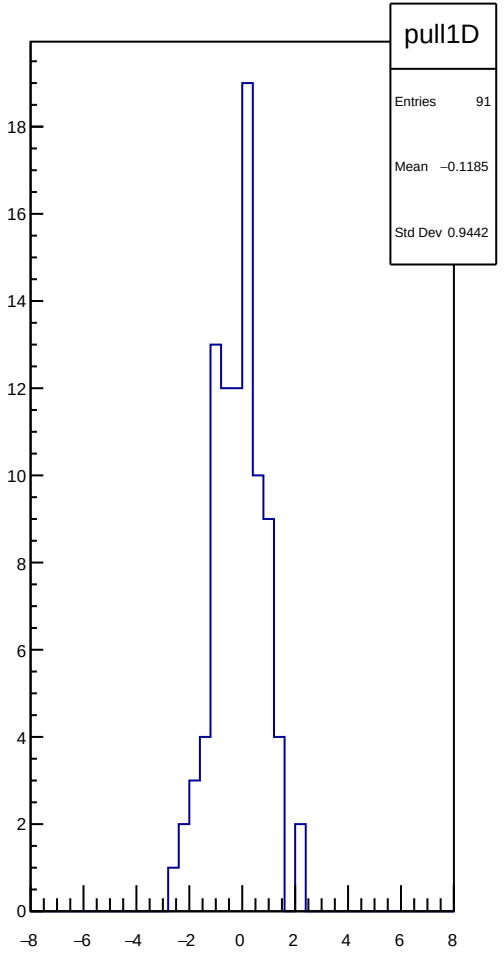

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.2 / 90
p0 −0.01362 ± 0.08743
pull
Entries 91
Mean −322.3
Std Dev 0
pull1D
Entries 91
Mean 0.00832
Std Dev 1.1

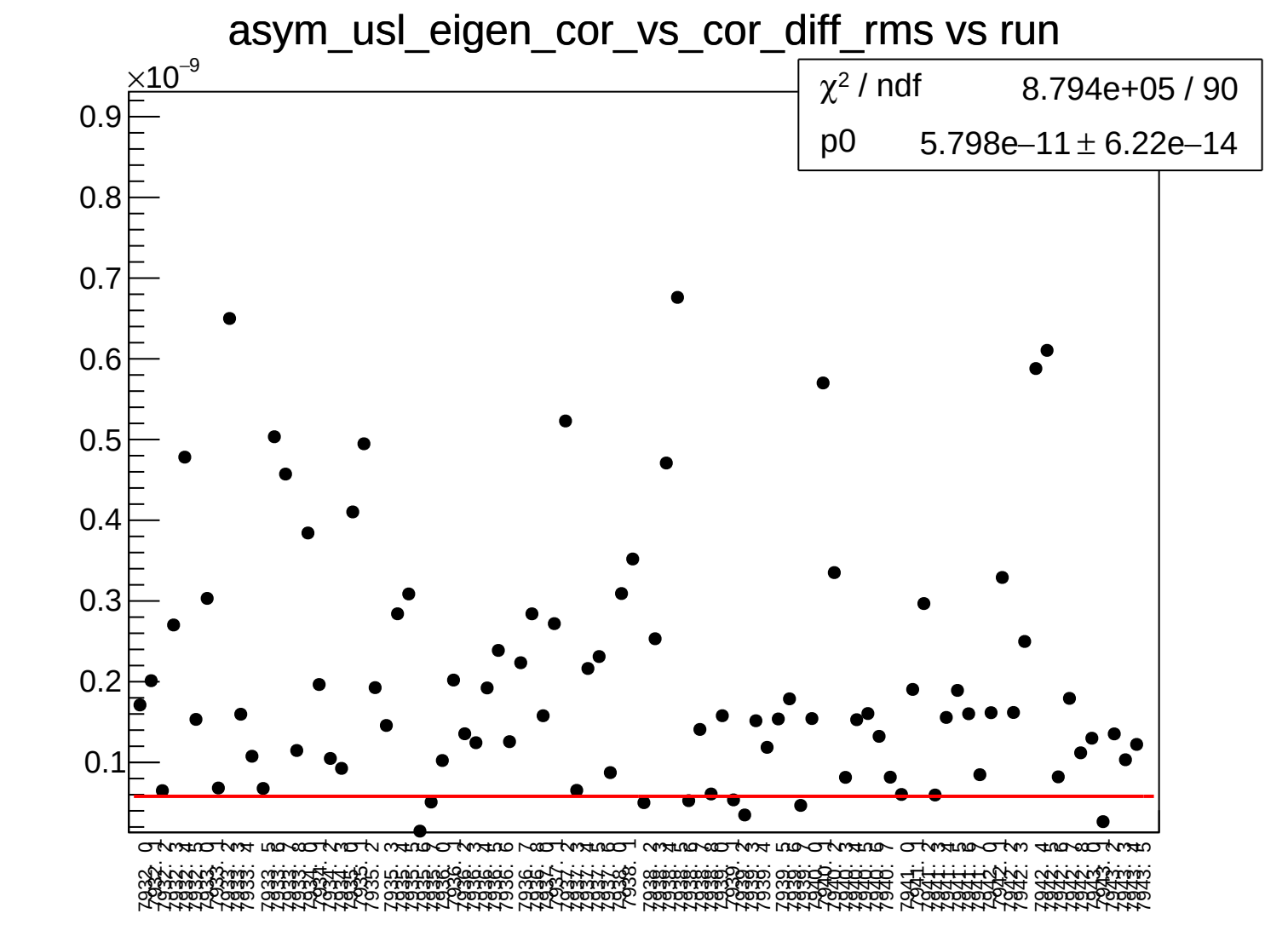

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.06e+05 / 90
p0 79.23 ± 0.06182
160
140
120
100
80
60
40

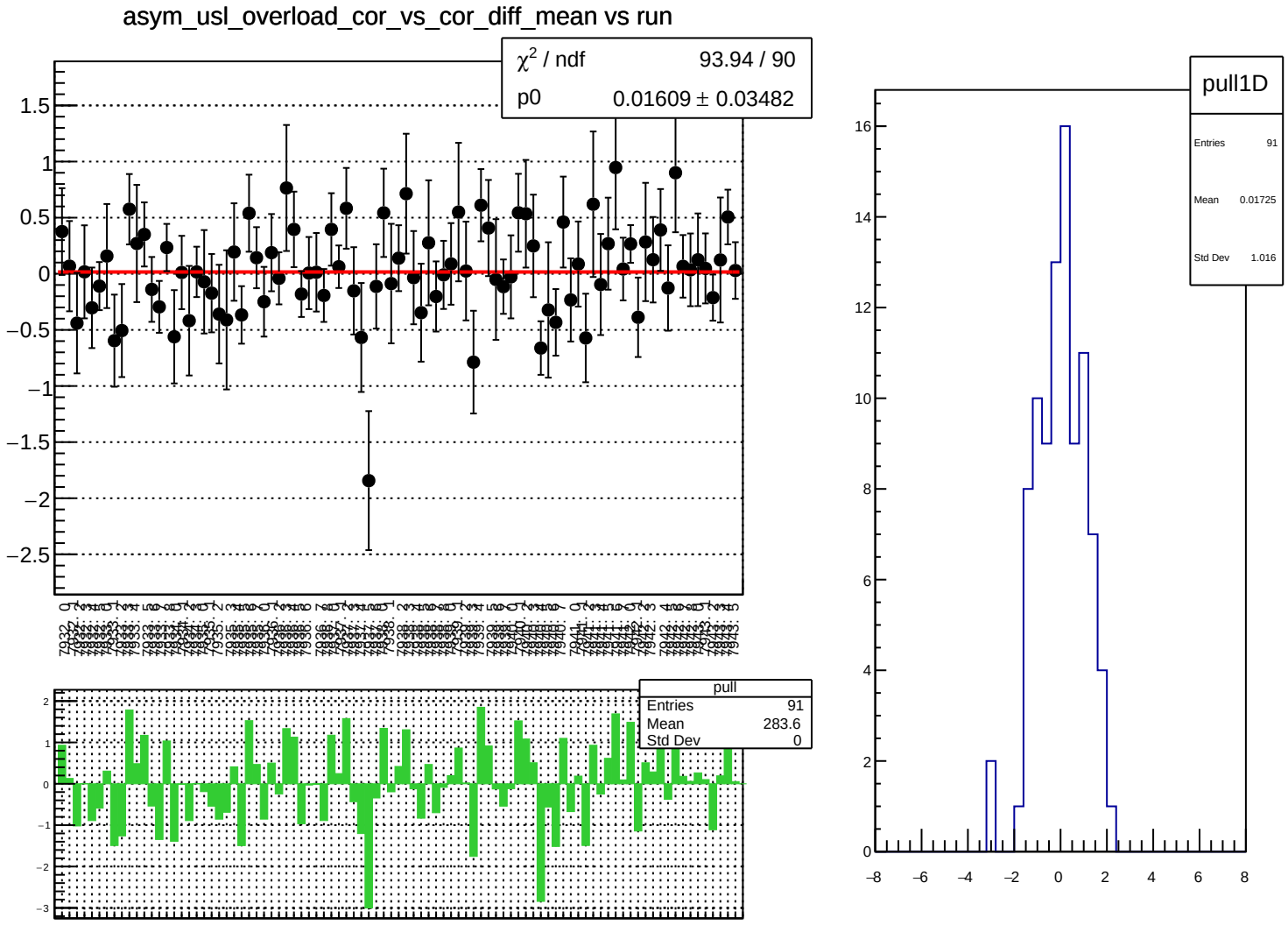

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 99.43 / 90
p0 −0.02123 ± 0.09701
pull
Entries 91
Mean 1676
Std Dev 0
pull1D
Entries 91
Mean −0.003008
Std Dev 1.045

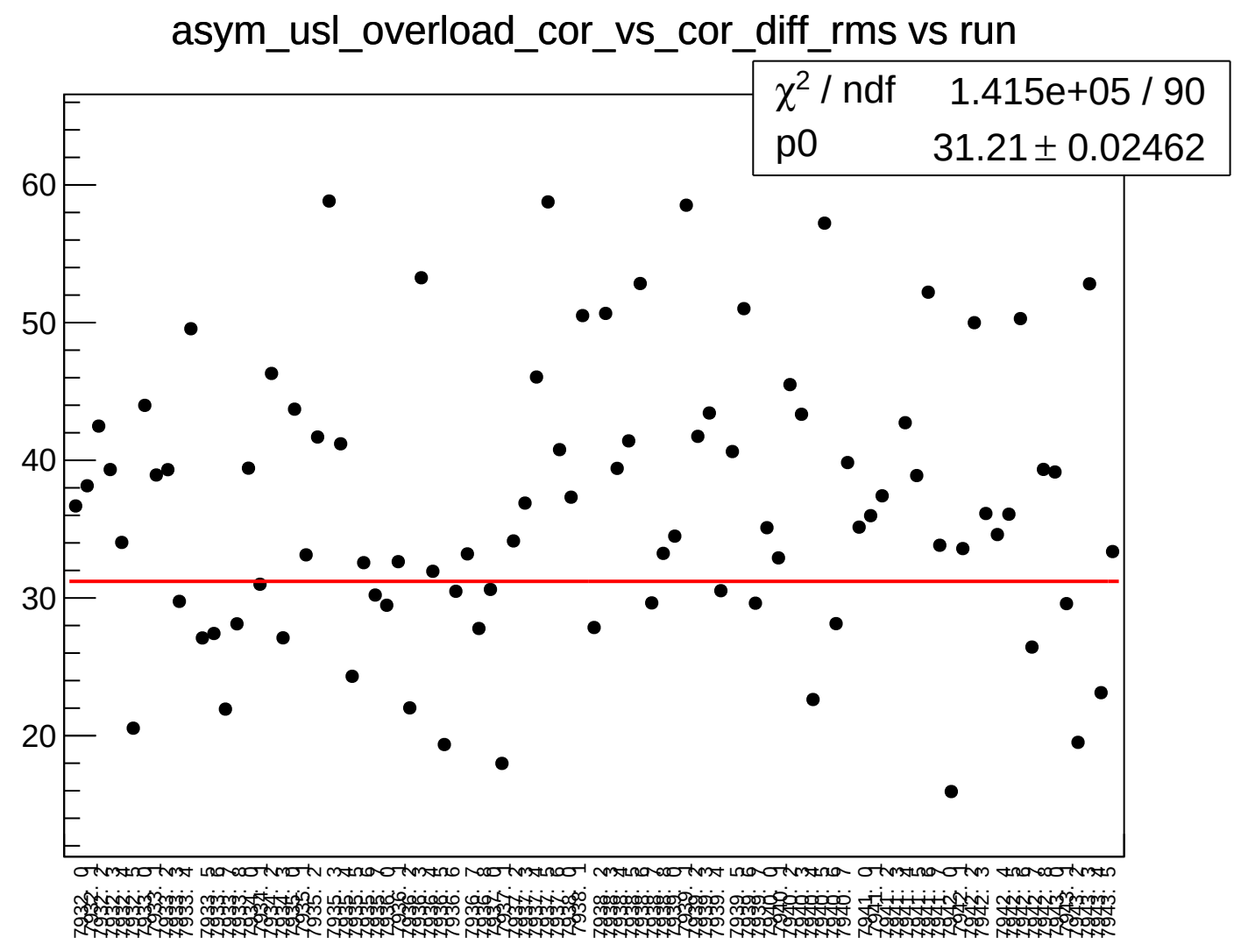

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.537e+04 / 90
p0 88.46 ± 0.0686
180
160
140
120
100
80
60

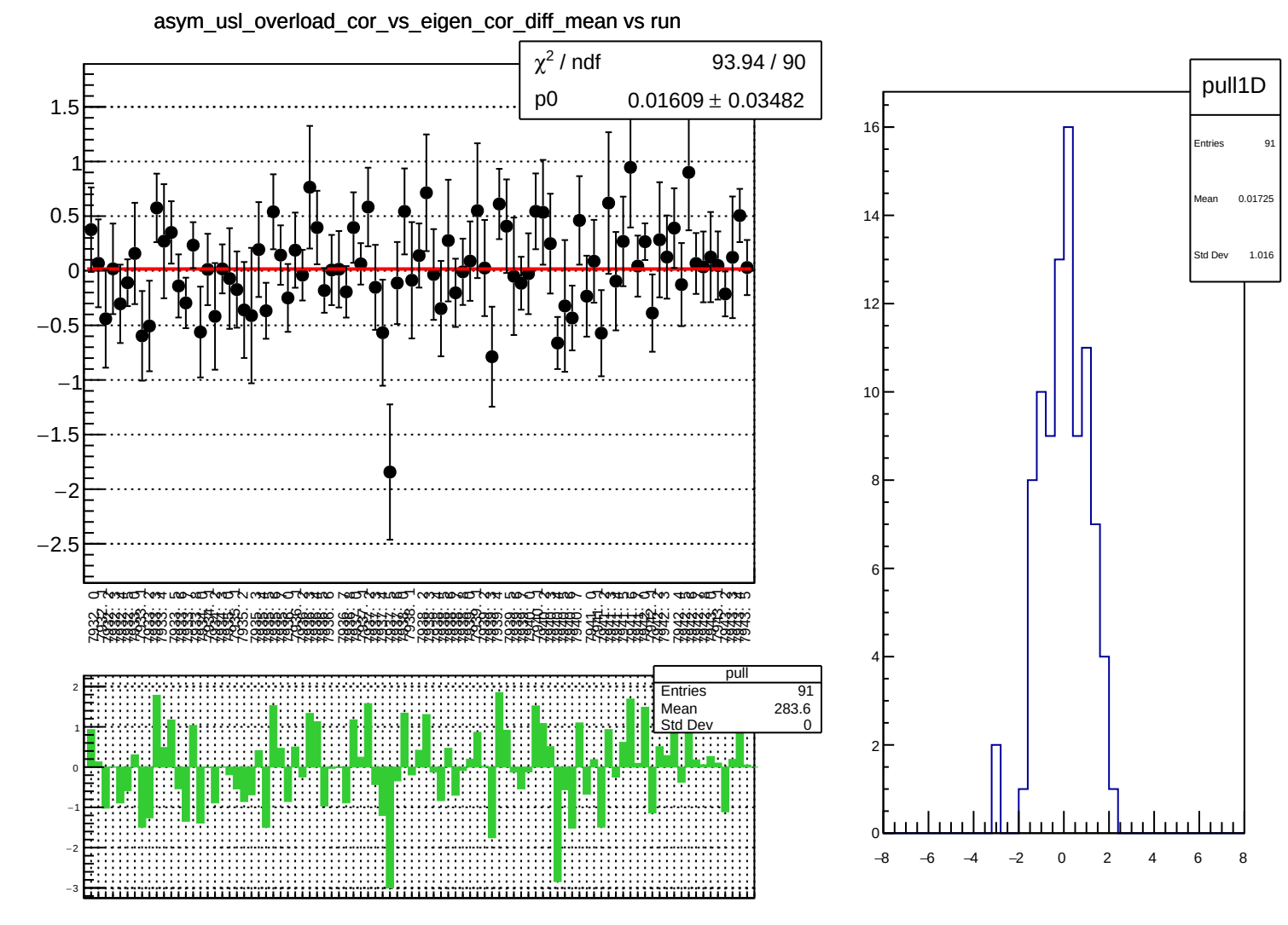

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.41 / 90
p0 1.146e−14 ± 8.797e−14
pull
Entries 91
Mean 30.31
Std Dev 2.06

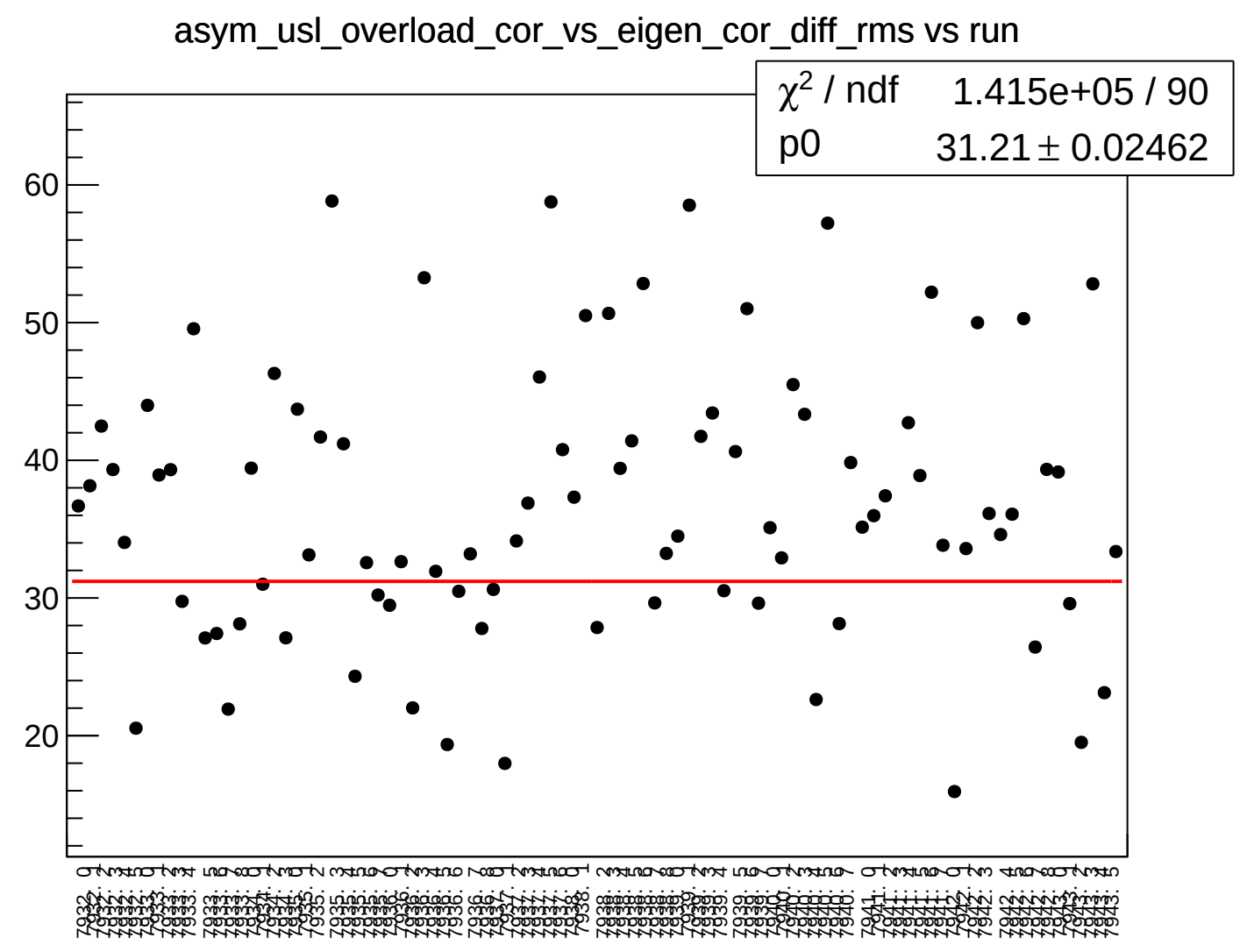

pull1D
Entries 91
Mean −0.1185
Std Dev 0.9442

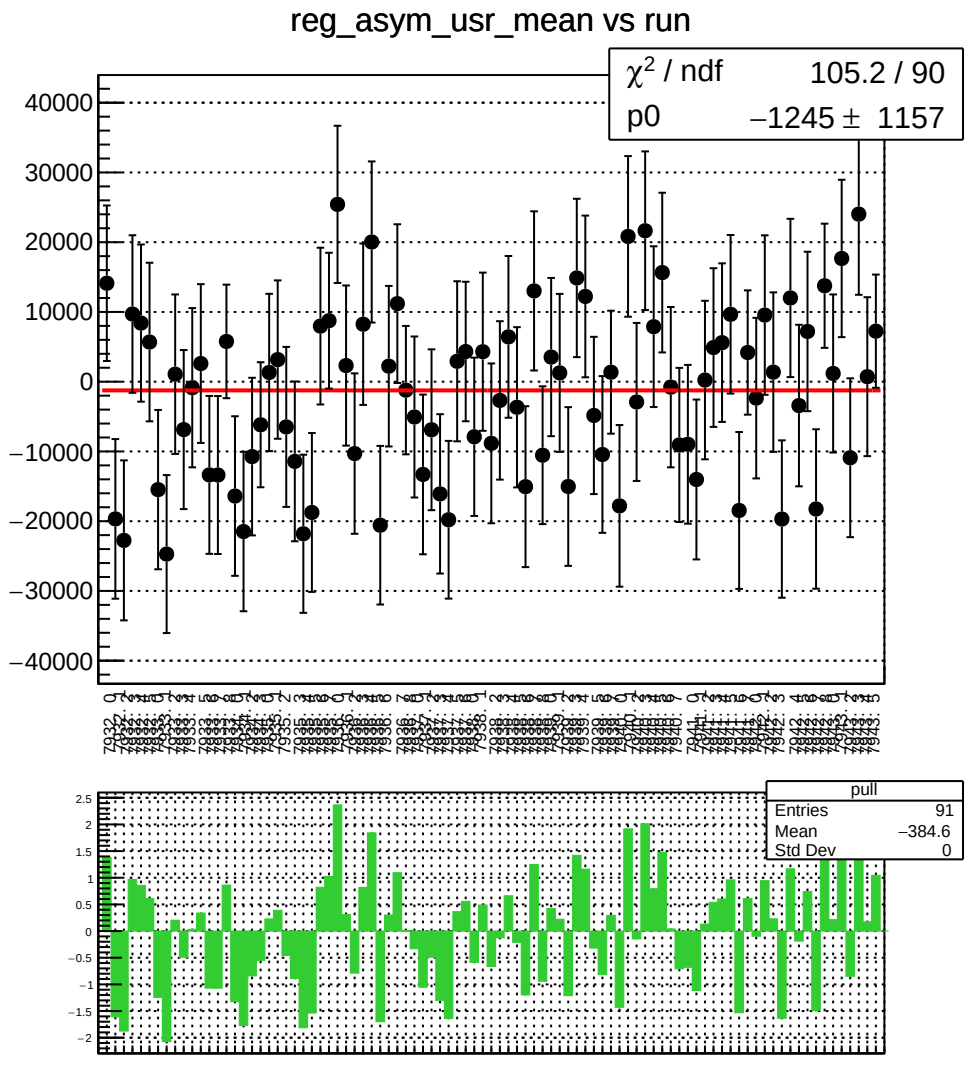

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.794e+05 / 90
p0 5.798e−11 ± 6.22e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

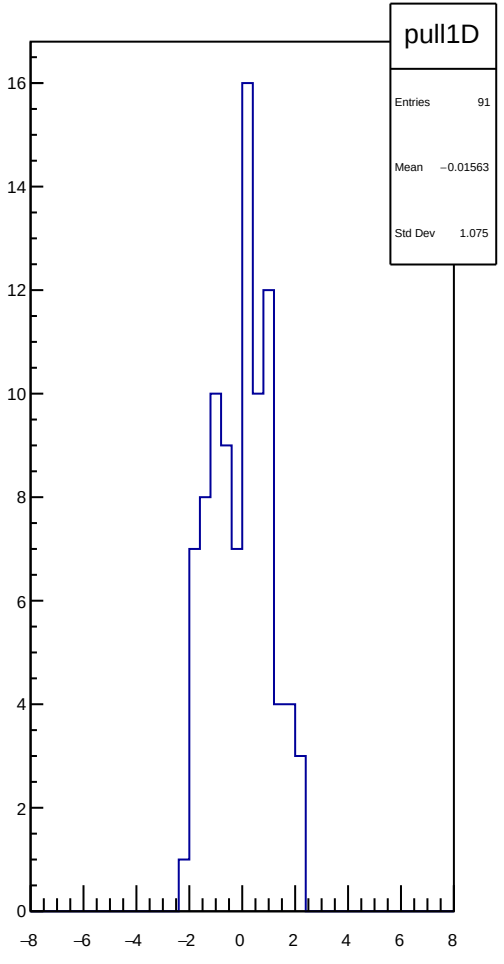

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 93.94 / 90
p0 0.01609 ± 0.03482
pull
Entries 91
Mean 283.6
Std Dev 0
pull1D
Entries 91
Mean 0.01725
Std Dev 1.016

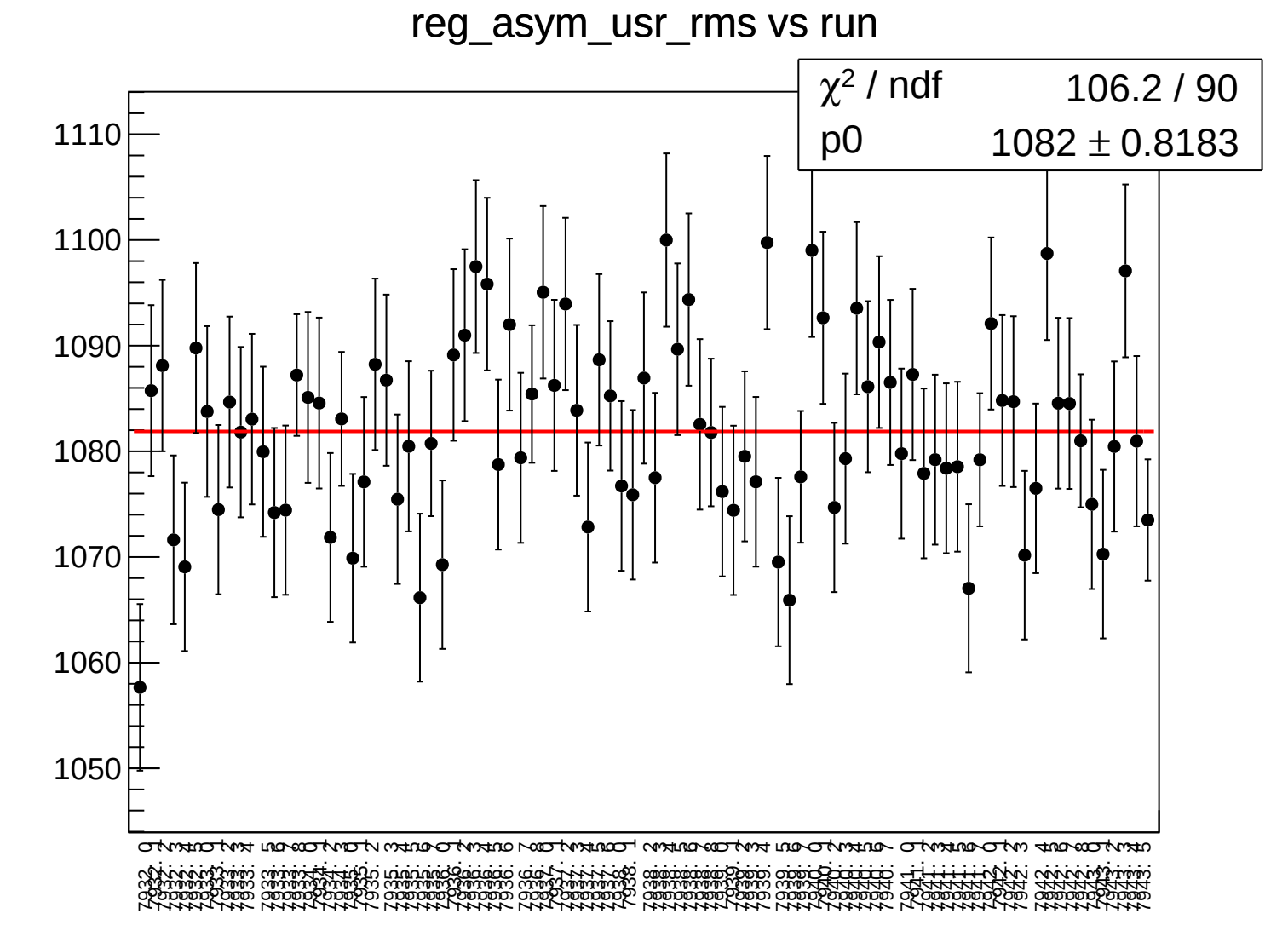

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.415e+05 / 90
p0 31.21 ± 0.02462
60
50
40
30
20

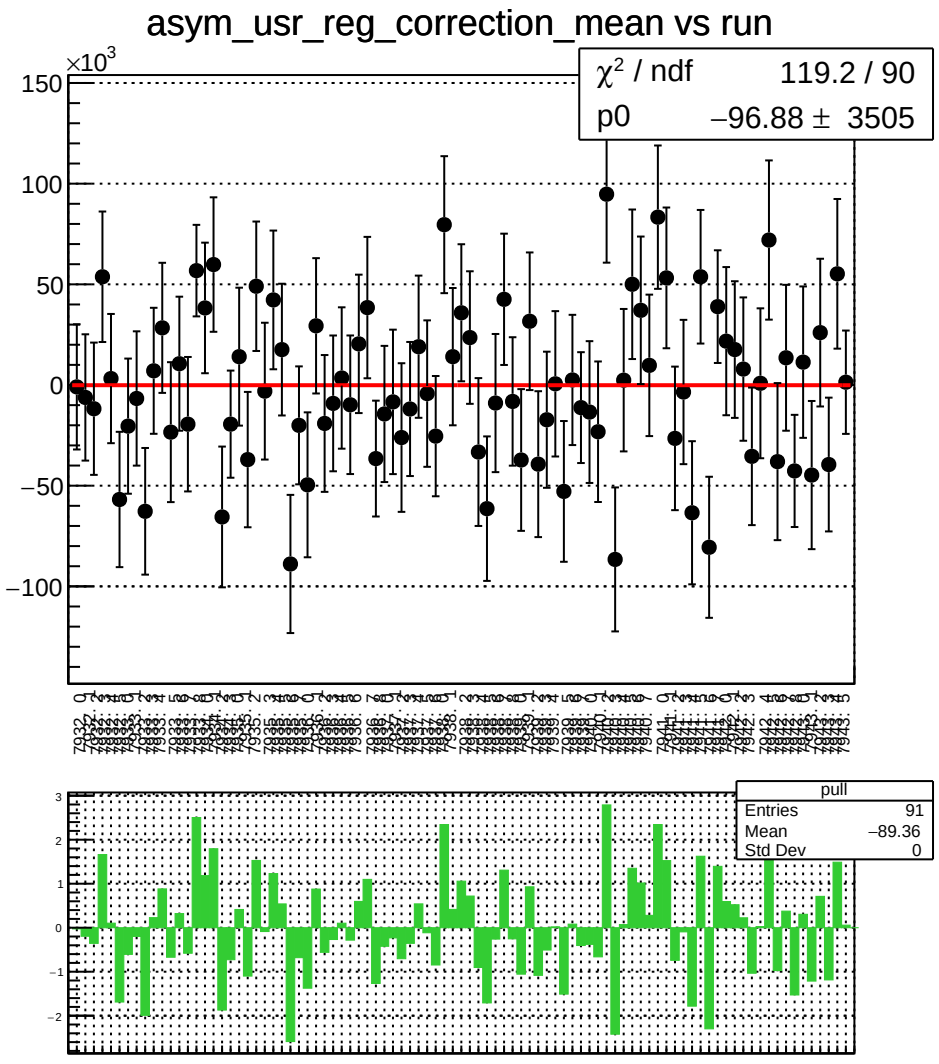

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.94 / 90
p0 0.01609 ± 0.03482
pull
Entries 91
Mean 283.6
Std Dev 0
pull1D
Entries 91
Mean 0.01725
Std Dev 1.016

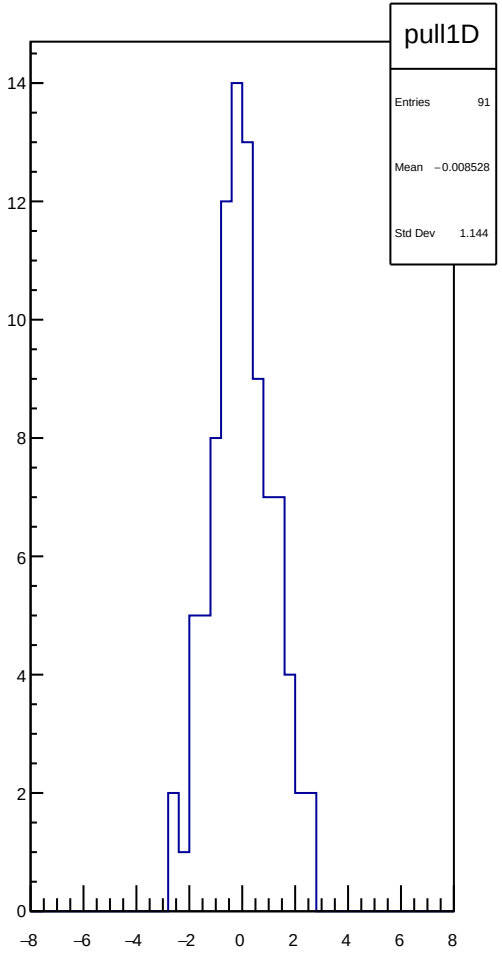

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.415e+05 / 90
p0 31.21 ± 0.02462
60
50
40
30
20

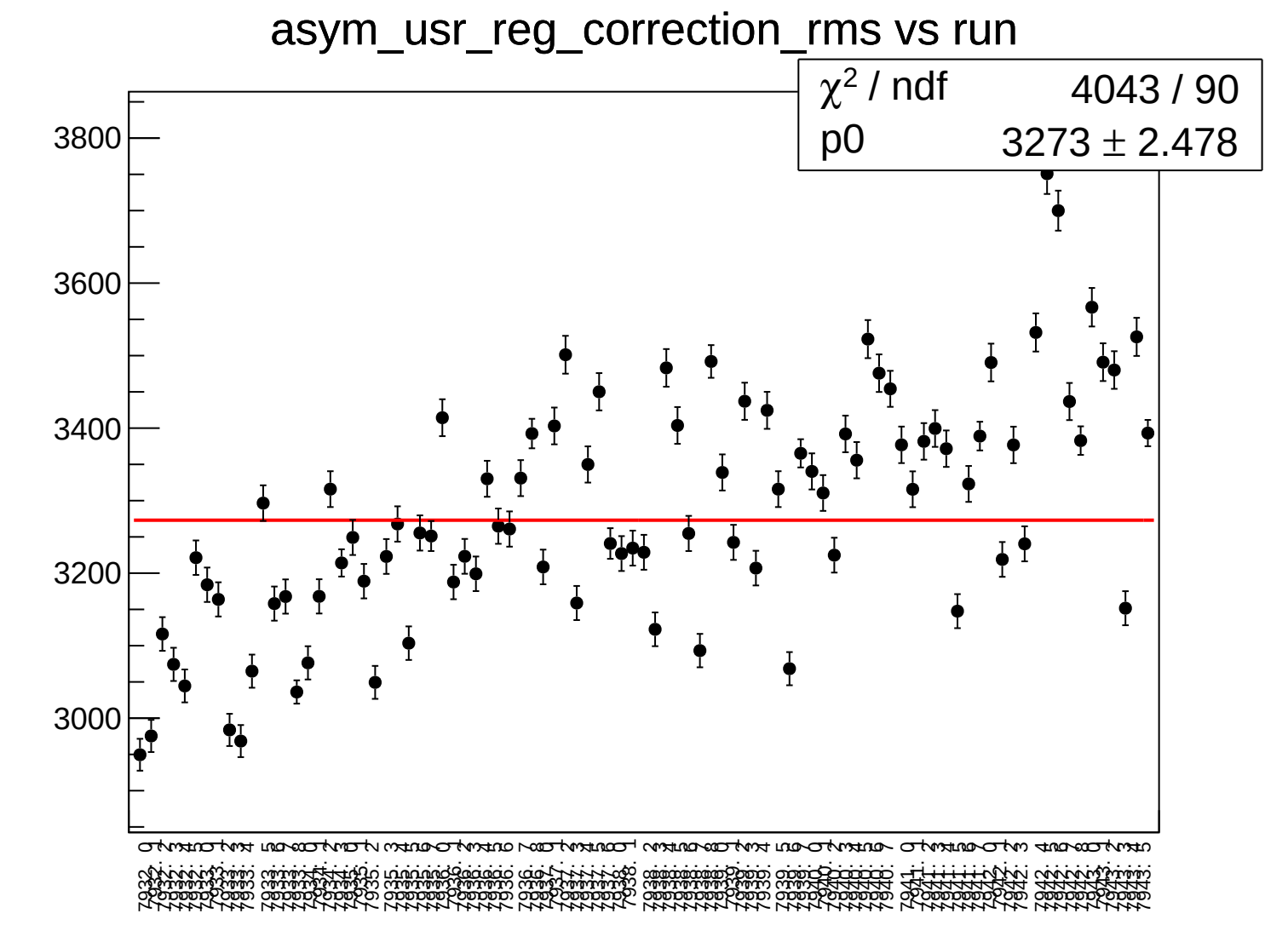

reg_asym_usr_mean vs run
χ² / ndf 105.2 / 90
p0 −1245 ± 1157
pull
Entries 91
Mean −384.6
Std Dev 0

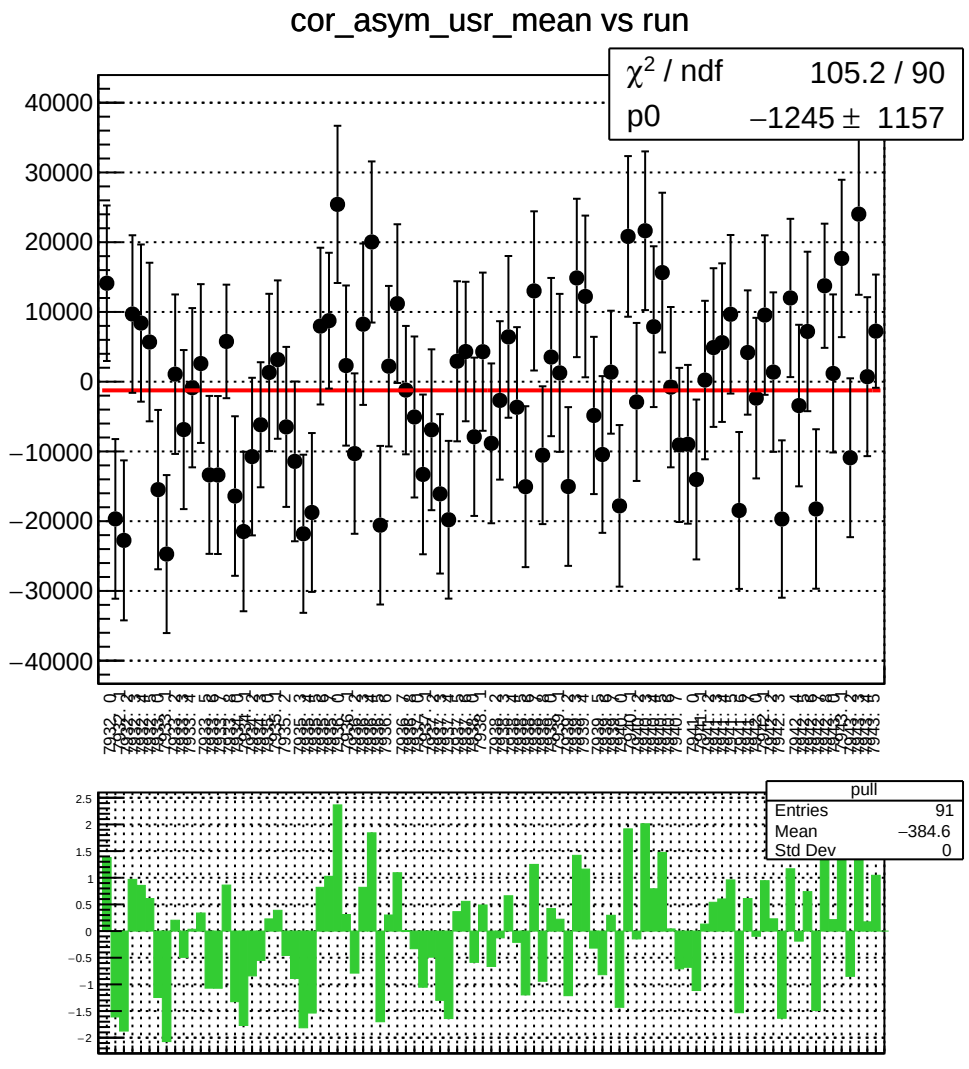

pull1D
Entries 91
Mean −0.01563
Std Dev 1.075

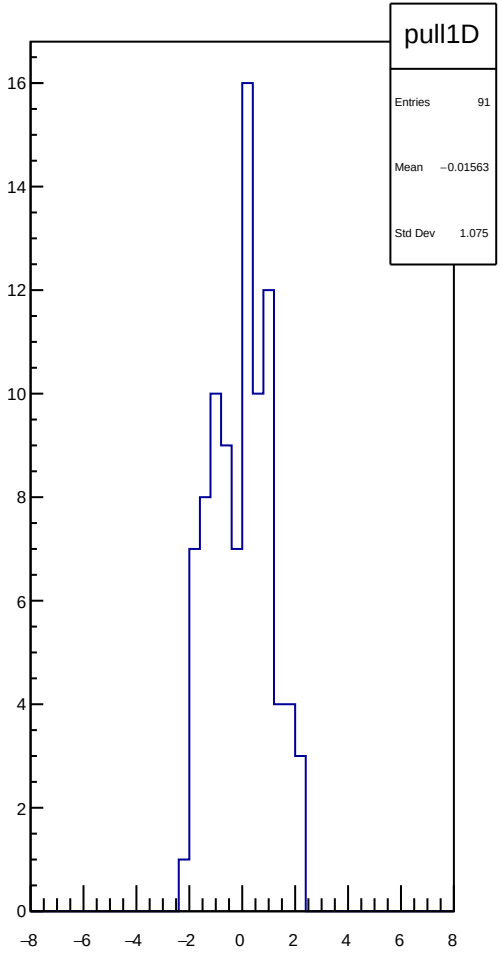

reg_asym_usr_rms vs run
χ² / ndf 106.2 / 90
p0 1082 ± 0.8183
1110
1100
1090
1080
1070
1060
1050

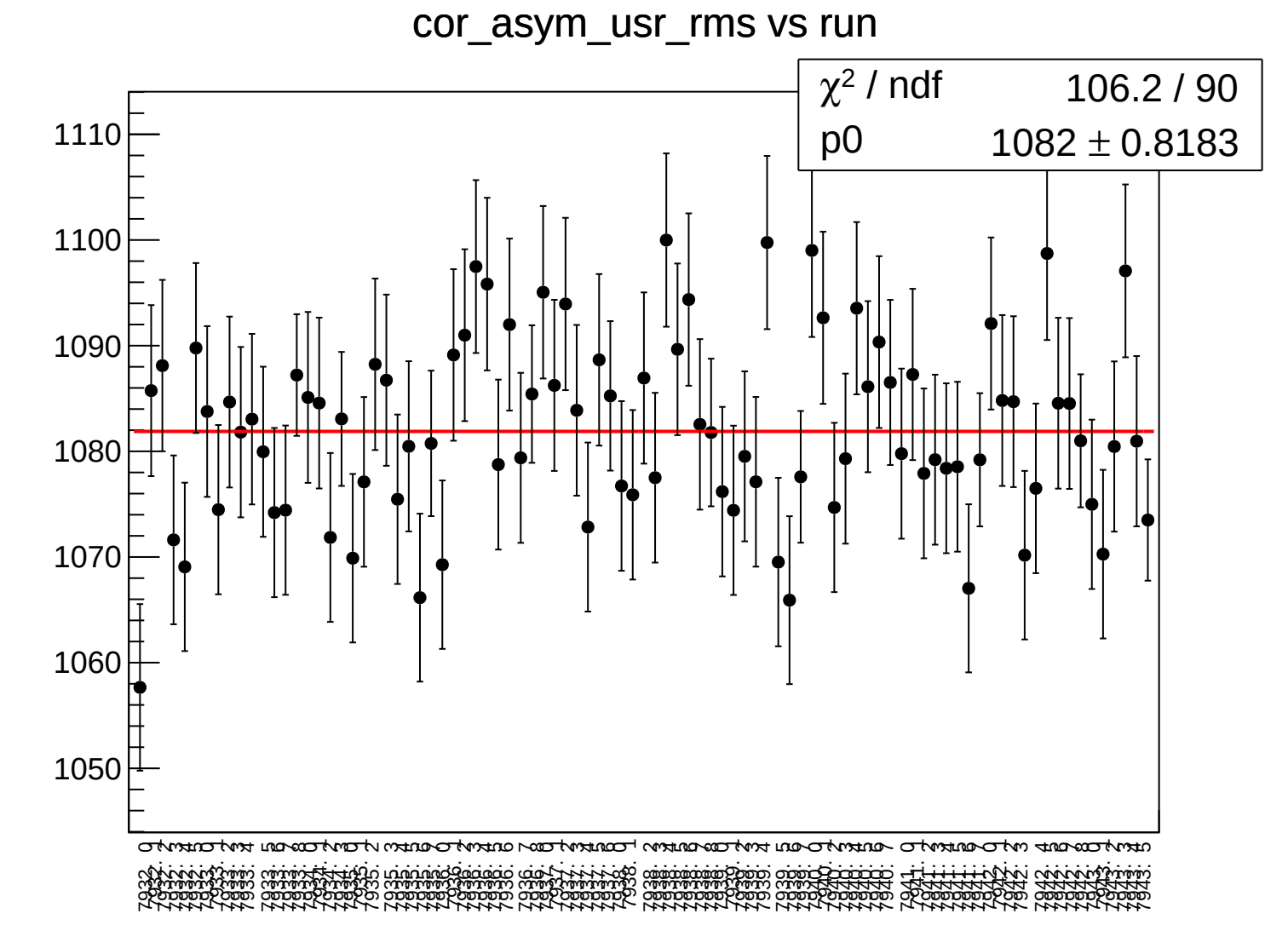

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 119.2 / 90
p0 −96.88 ± 3505
150
100
50
0
−50
−100
pull
Entries 91
Mean −89.36
Std Dev 0
3
2
1
0
−1
−2

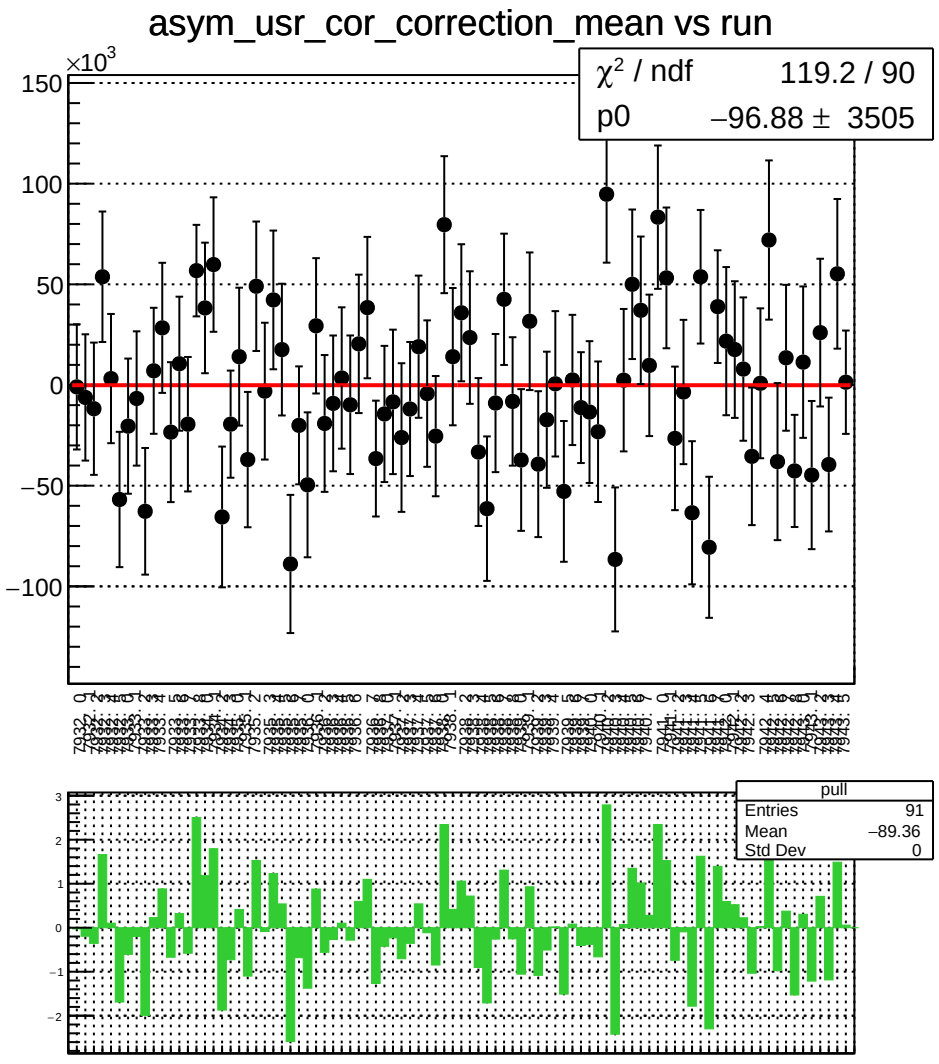

pull1D
Entries 91
Mean −0.008528
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

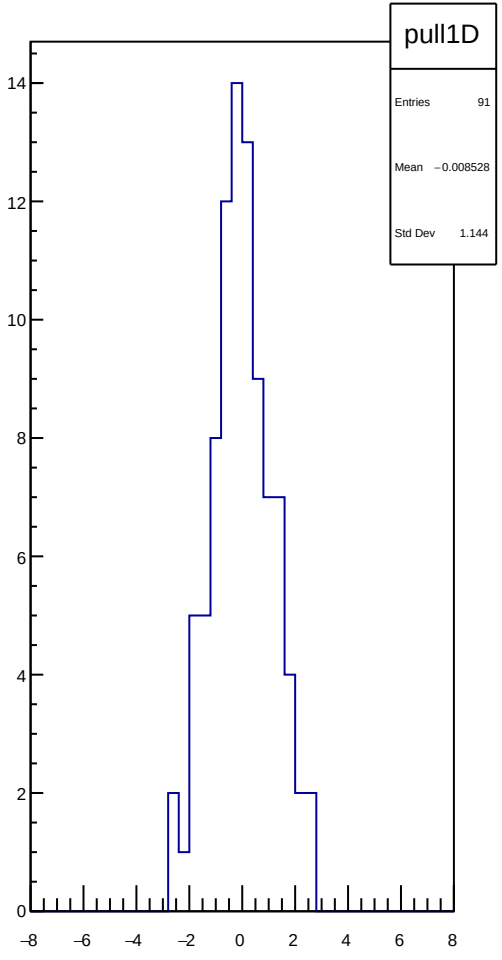

asym_usr_reg_correction_rms vs run
χ² / ndf 4043 / 90
p0 3273 ± 2.478
3800
3600
3400
3200
3000

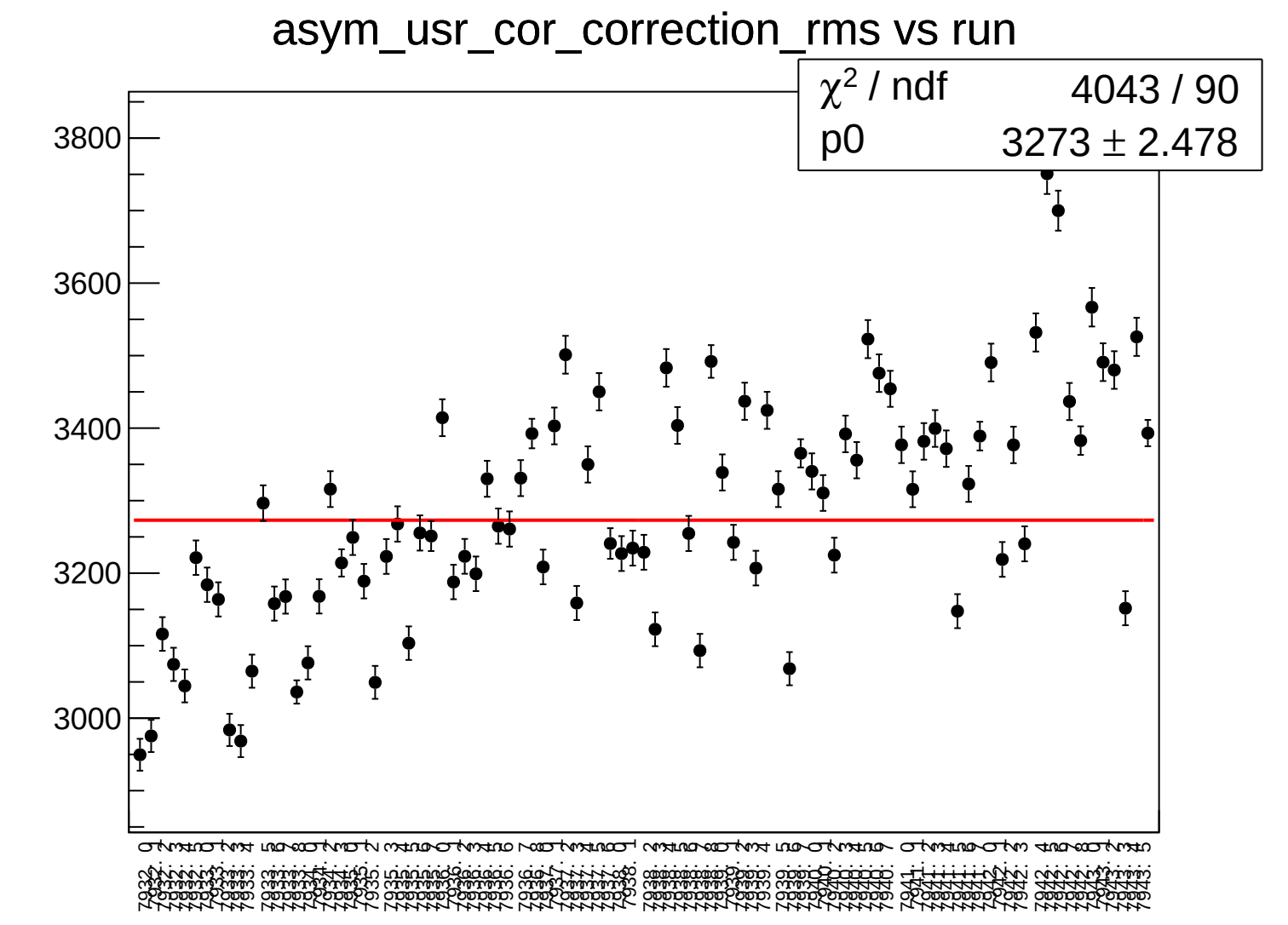

cor_asym_usr_mean vs run
χ² / ndf 105.2 / 90
p0 −1245 ± 1157
pull
Entries 91
Mean −384.6
Std Dev 0

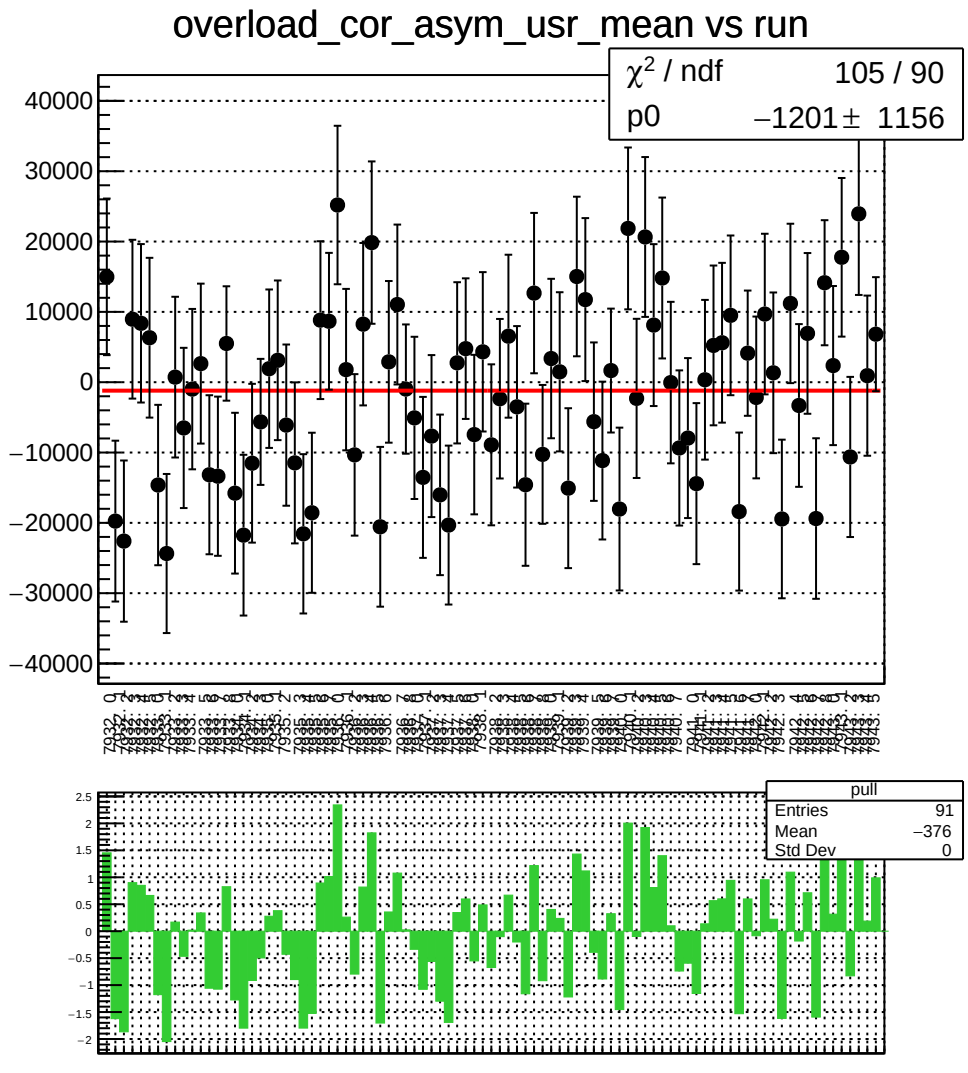

pull1D
Entries 91
Mean −0.01563
Std Dev 1.075

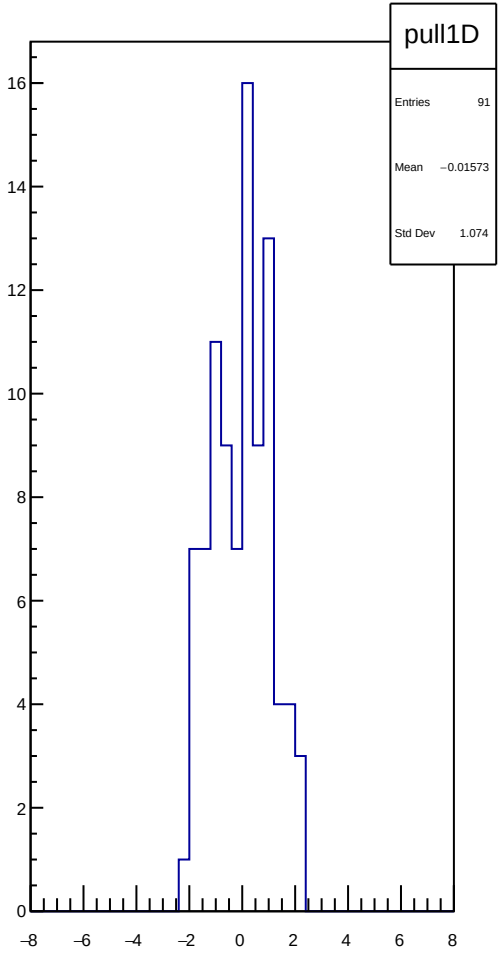

cor_asym_usr_rms vs run
χ² / ndf 106.2 / 90
p0 1082 ± 0.8183
1110
1100
1090
1080
1070
1060
1050

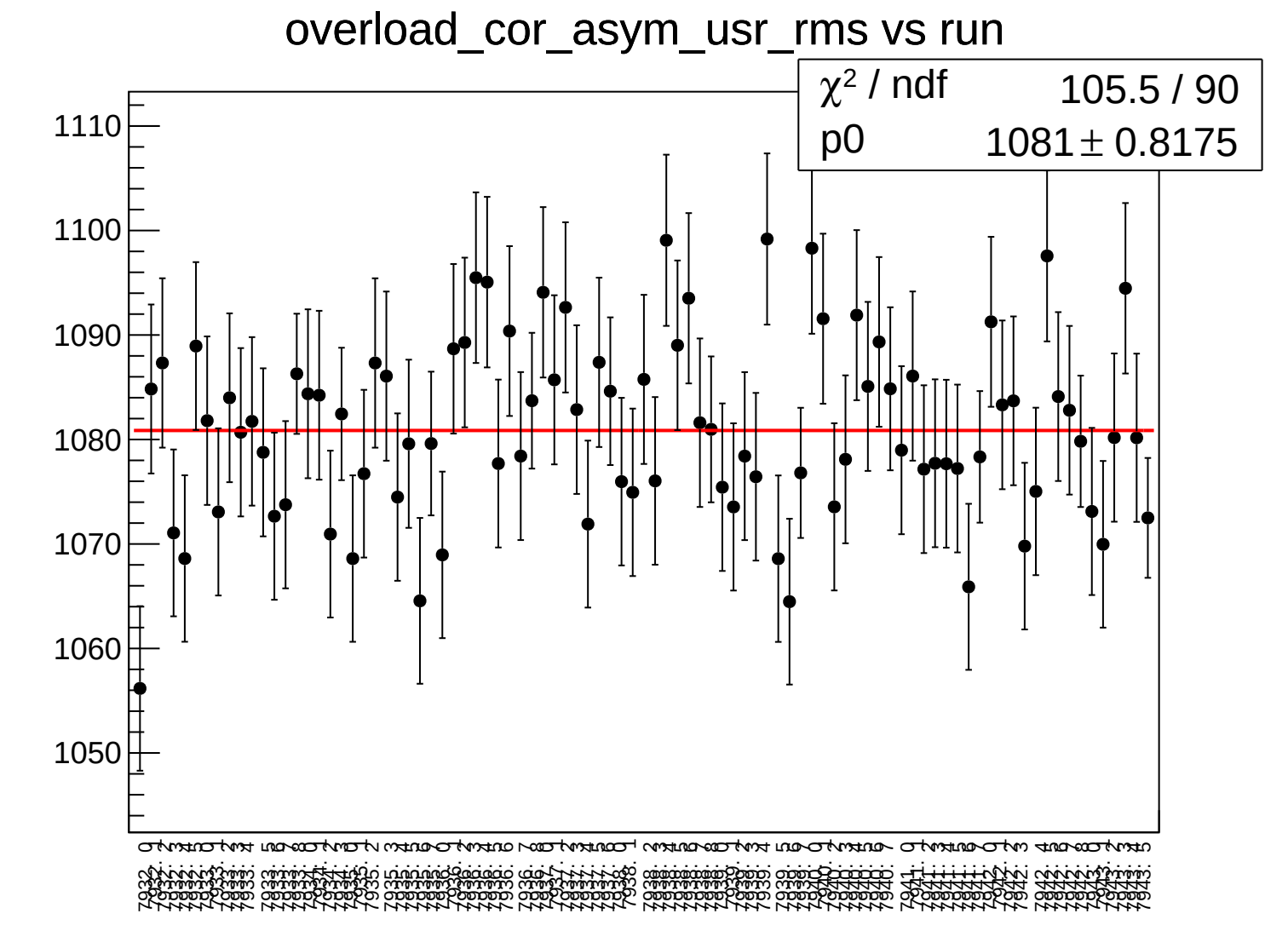

asym_usr_cor_correction_mean vs run
χ² / ndf 119.2 / 90
p0 −96.88 ± 3505
pull
Entries 91
Mean −89.36
Std Dev 0

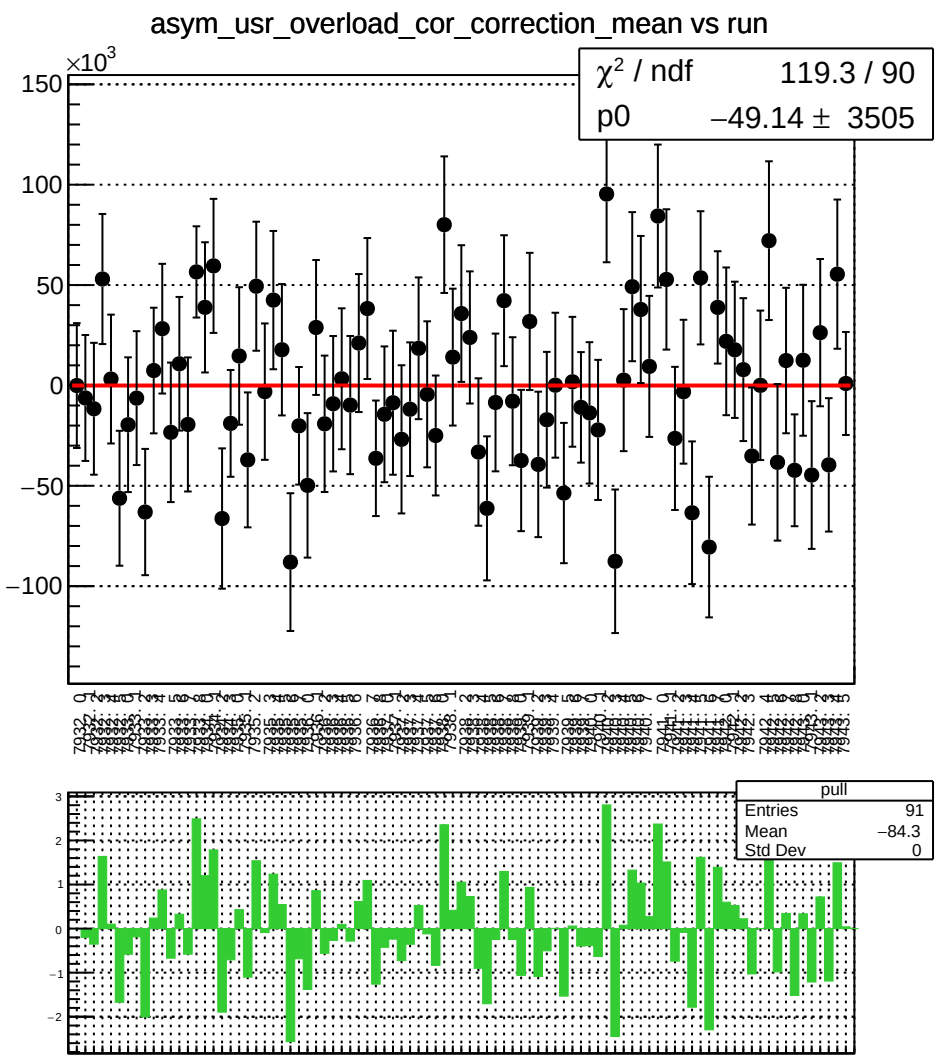

pull1D
Entries 91
Mean −0.008528
Std Dev 1.144

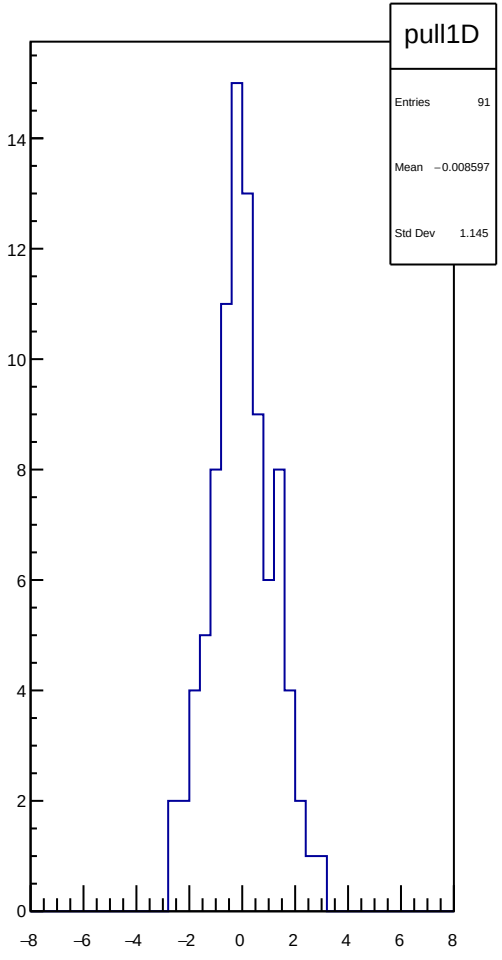

asym_usr_cor_correction_rms vs run
χ² / ndf 4043 / 90
p0 3273 ± 2.478
3800
3600
3400
3200
3000

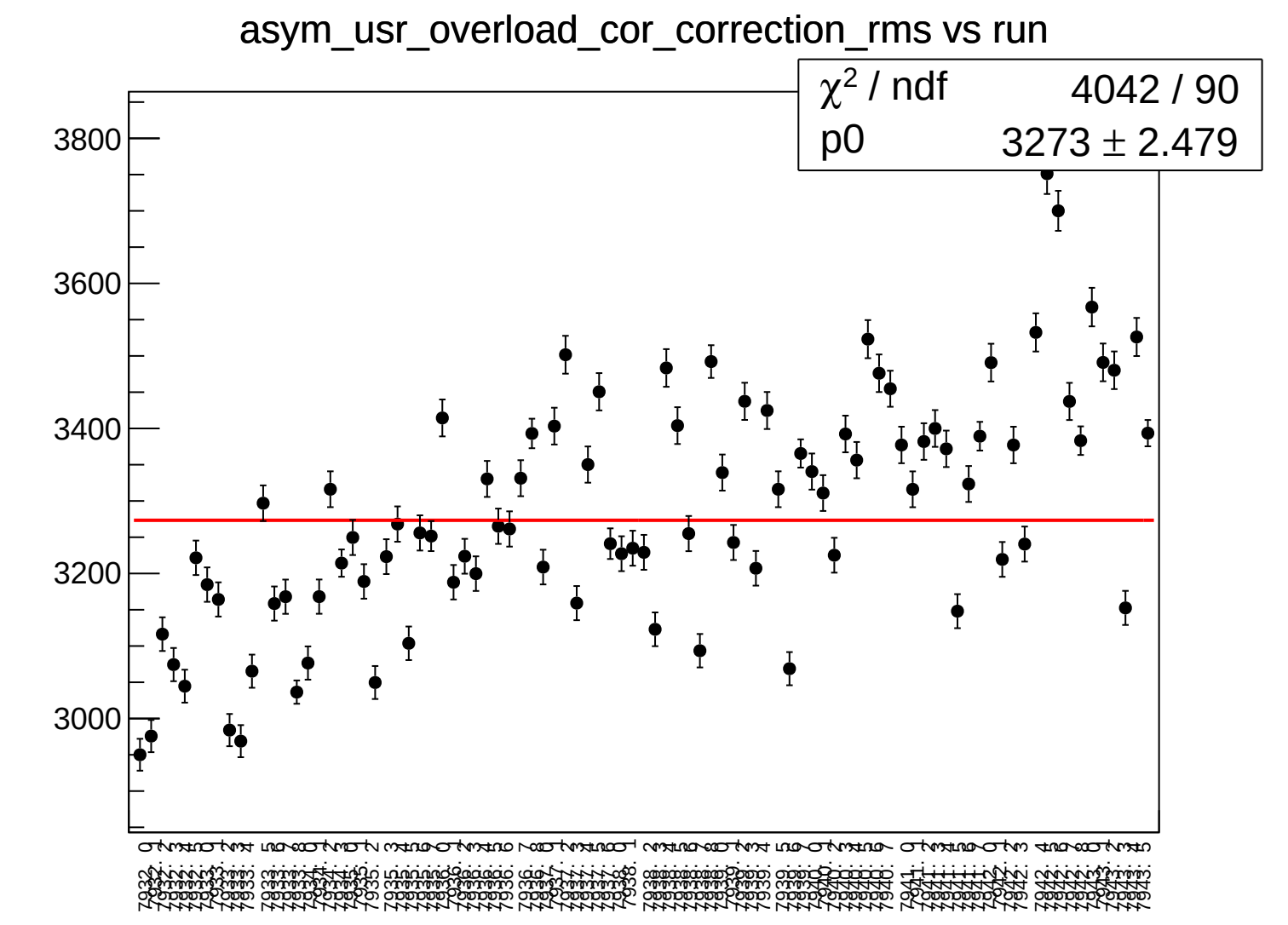

overload_cor_asym_usr_mean vs run
χ² / ndf 105 / 90
p0 −1201 ± 1156
pull
Entries 91
Mean −376
Std Dev 0

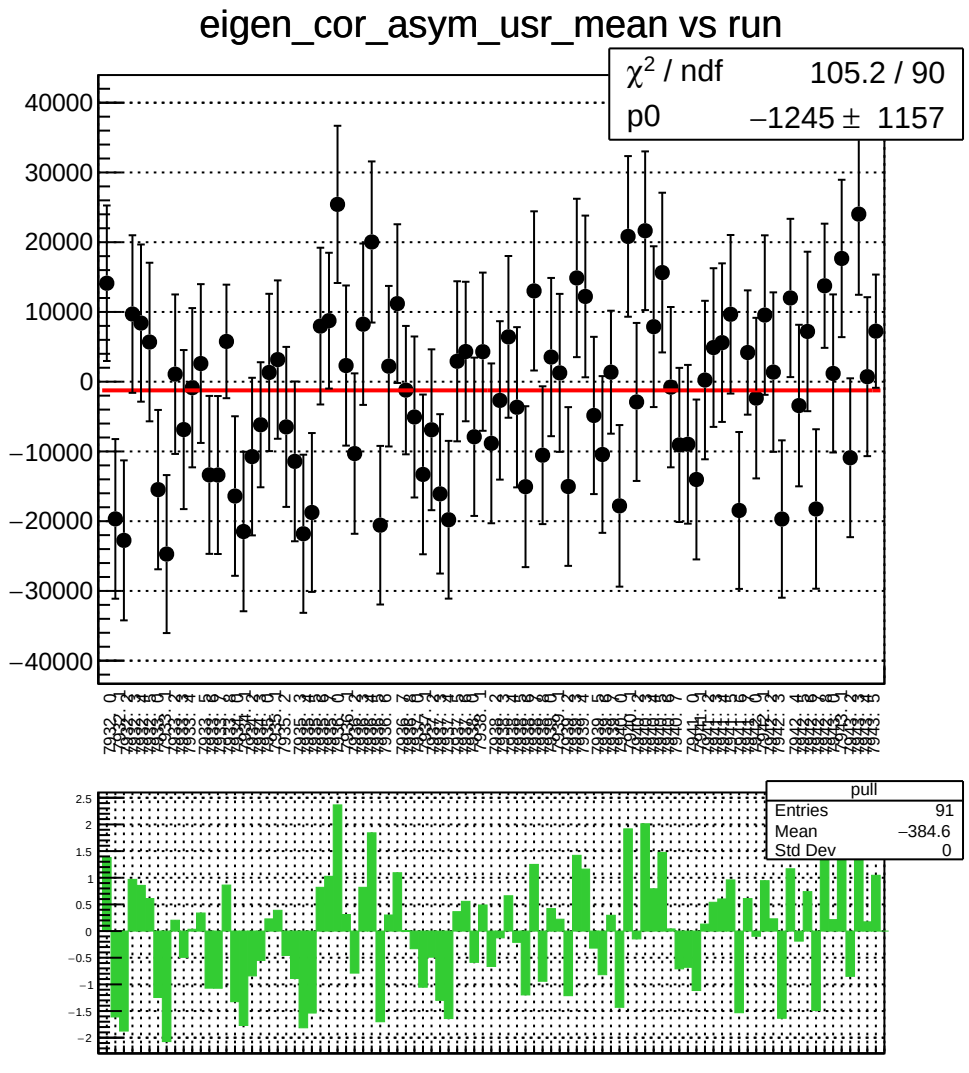

pull1D
Entries 91
Mean −0.01573
Std Dev 1.074

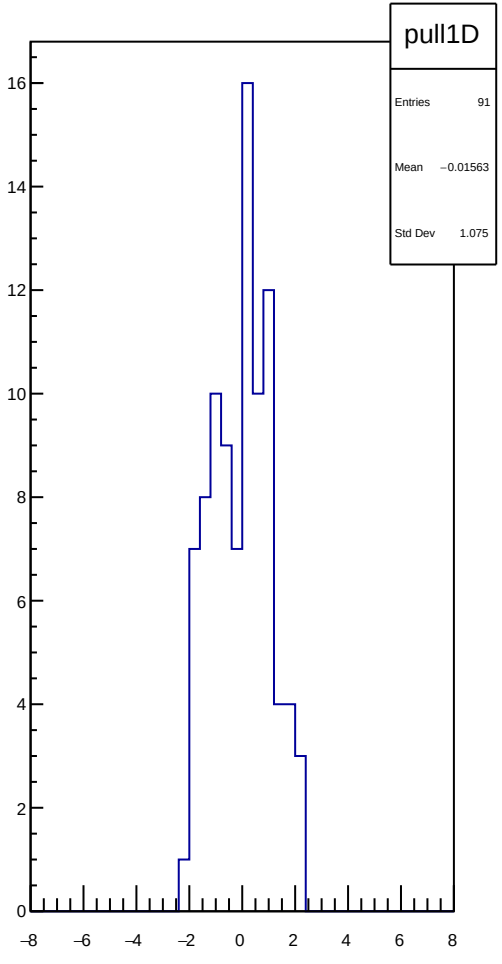

overload_cor_asym_usr_rms vs run
χ² / ndf 105.5 / 90
p0 1081 ± 0.8175
1110
1100
1090
1080
1070
1060
1050

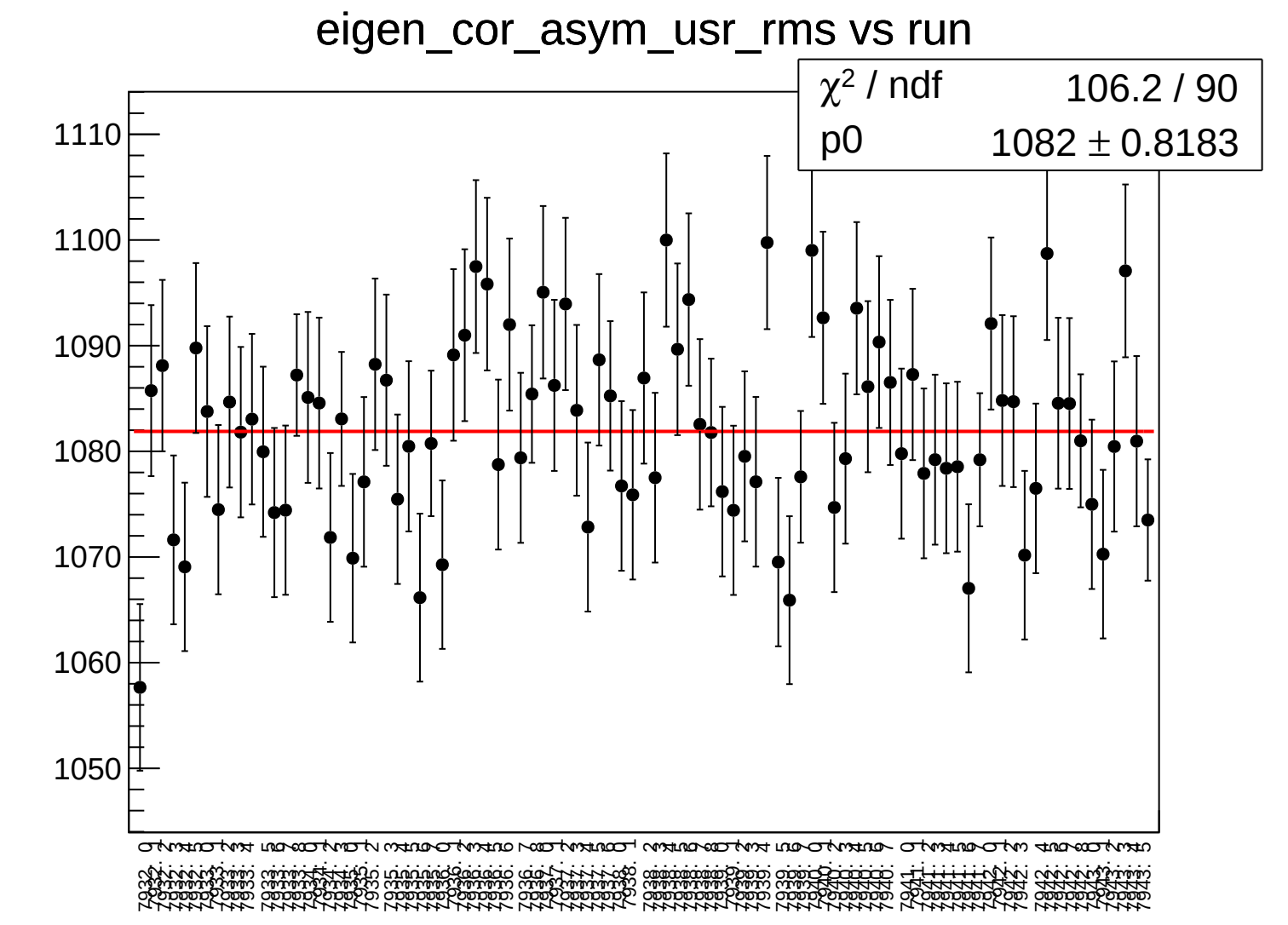

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 119.3 / 90
p0 −49.14 ± 3505
150
100
50
0
−50
−100
pull
Entries 91
Mean −84.3
Std Dev 0
3
2
1
0
−1
−2

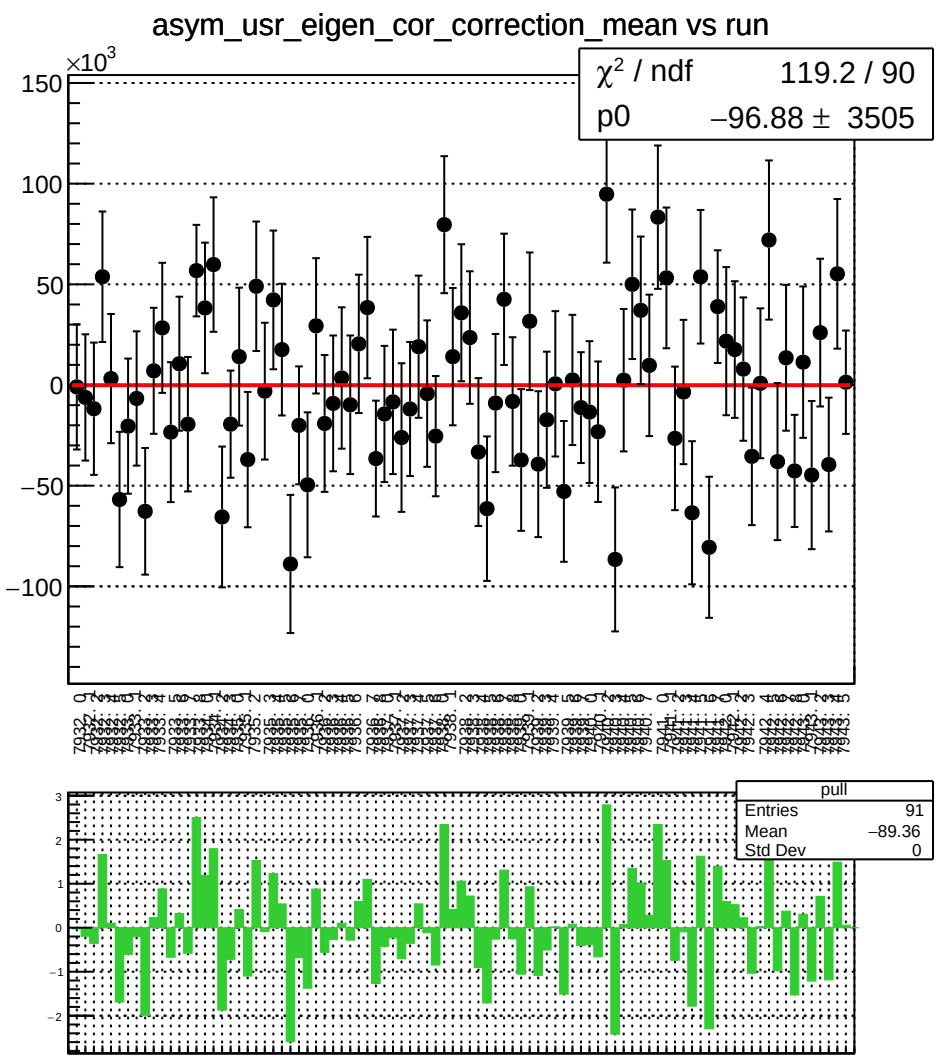

pull1D
Entries 91
Mean −0.008597
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

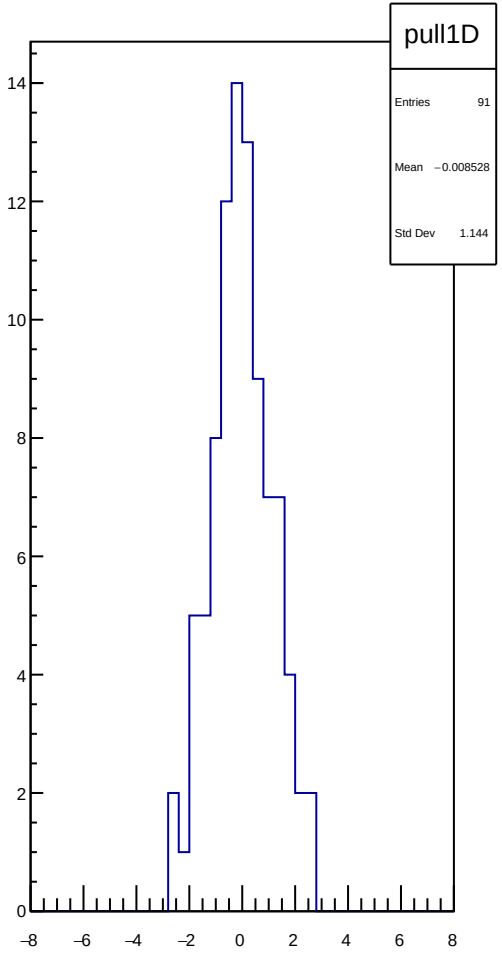

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 4042 / 90
p0 3273 ± 2.479
3800
3600
3400
3200
3000

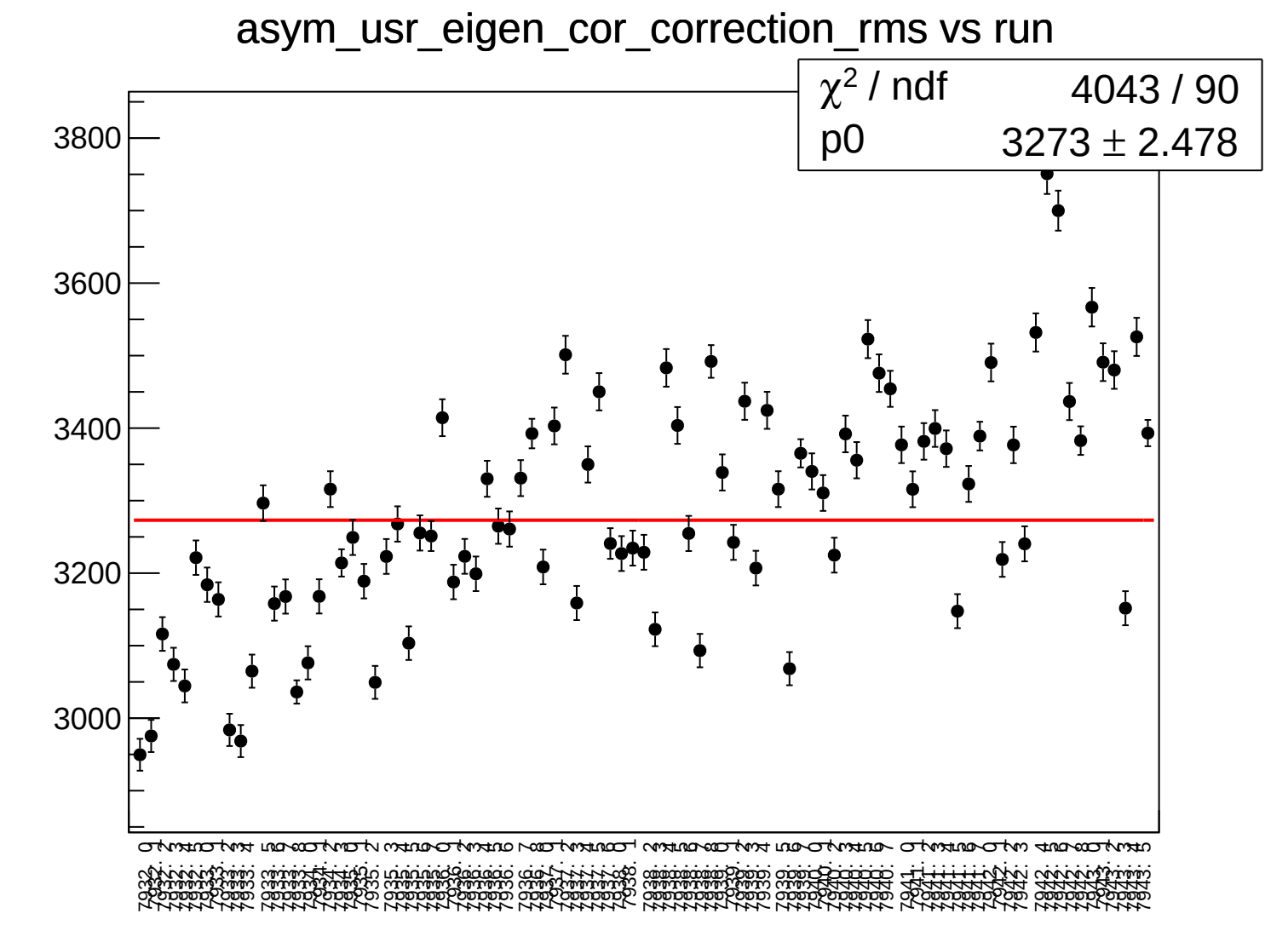

eigen_cor_asym_usr_mean vs run
χ² / ndf 105.2 / 90
p0 −1245 ± 1157
pull
Entries 91
Mean −384.6
Std Dev 0

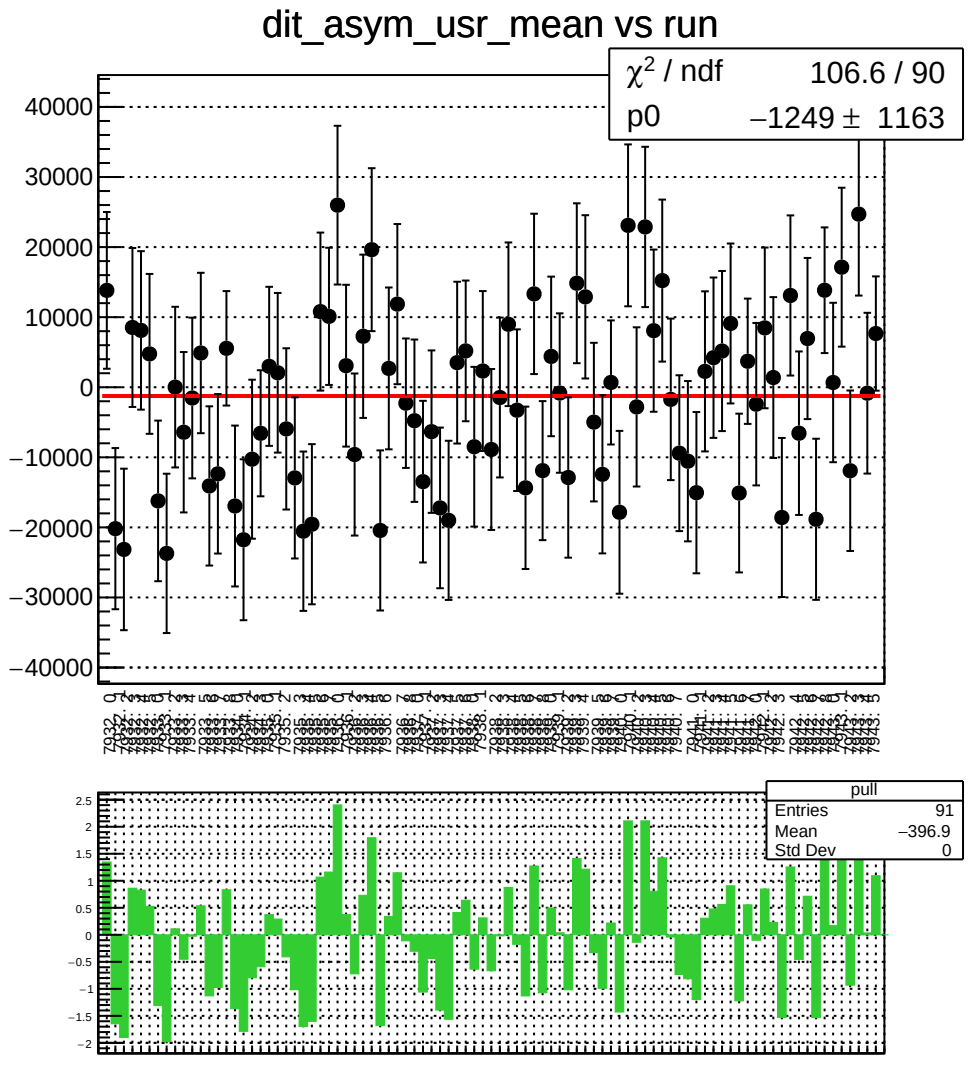

pull1D
Entries 91
Mean −0.01563
Std Dev 1.075

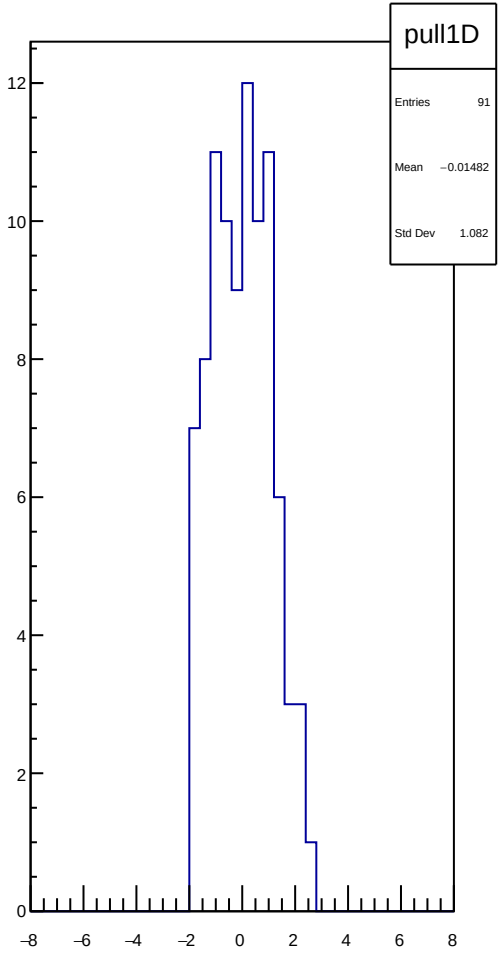

eigen_cor_asym_usr_rms vs run
χ² / ndf 106.2 / 90
p0 1082 ± 0.8183
1110
1100
1090
1080
1070
1060
1050

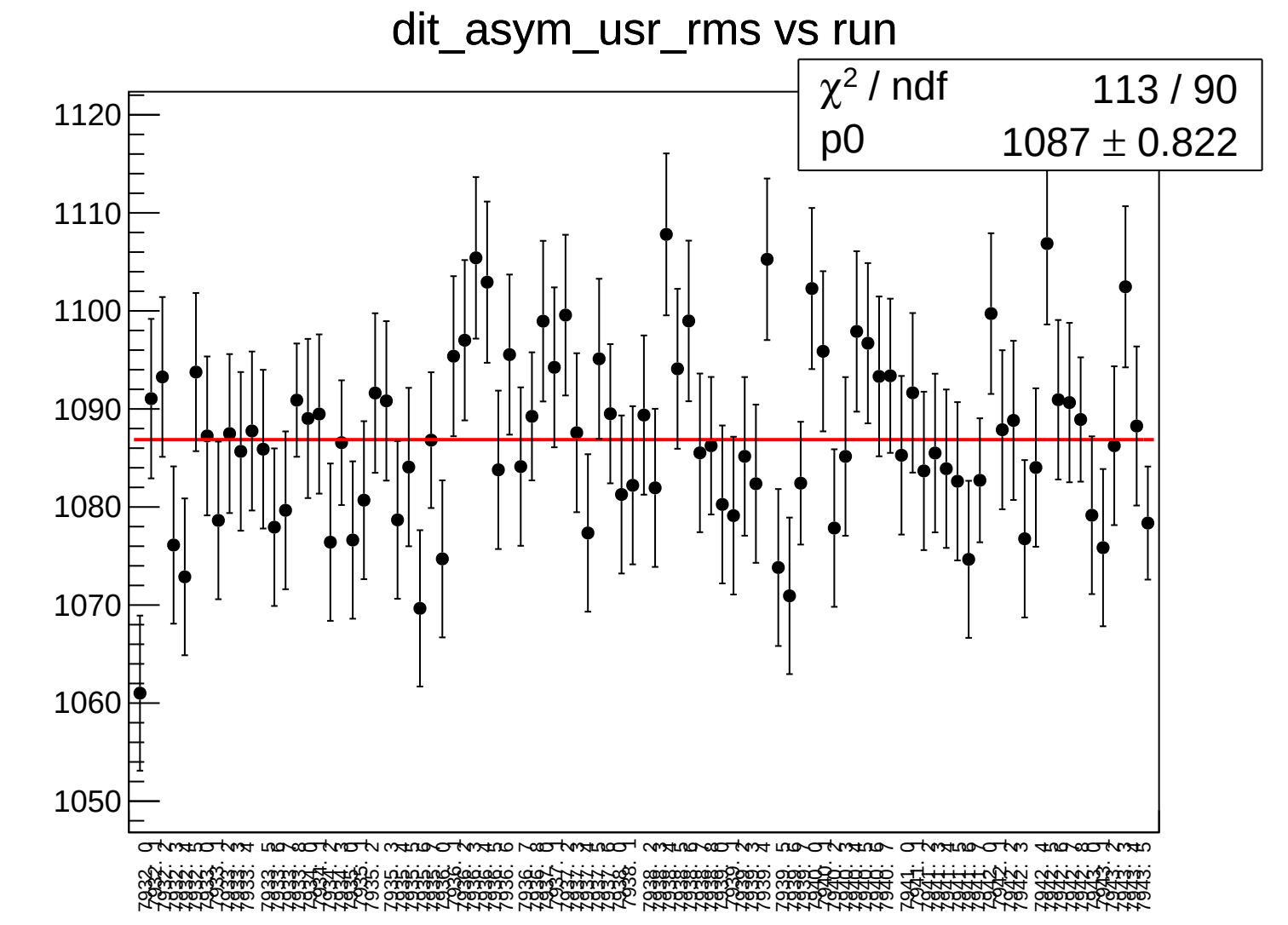

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 119.2 / 90
p0 −96.88 ± 3505
150
100
50
0
−50
−100
pull
Entries 91
Mean −89.36
Std Dev 0
3
2
1
0
−1
−2

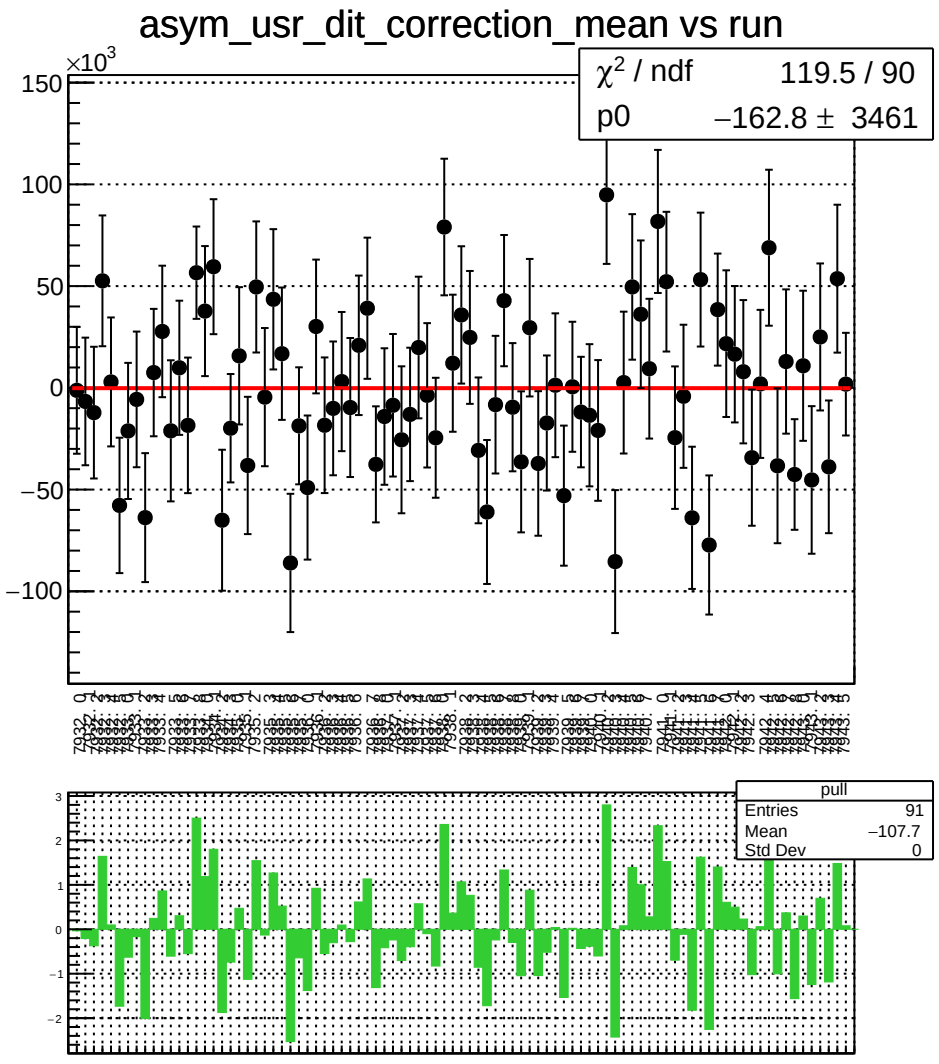

pull1D
Entries 91
Mean −0.008528
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

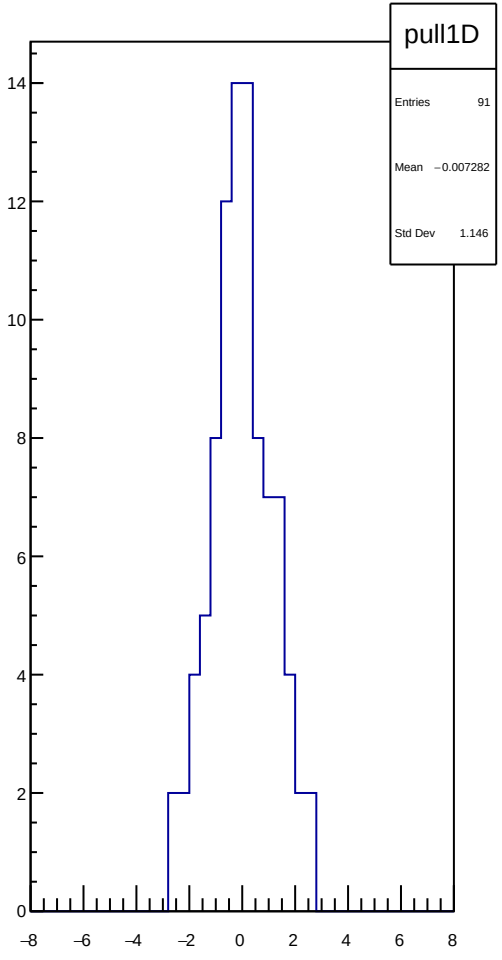

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 4043 / 90
p0 3273 ± 2.478
3800
3600
3400
3200
3000

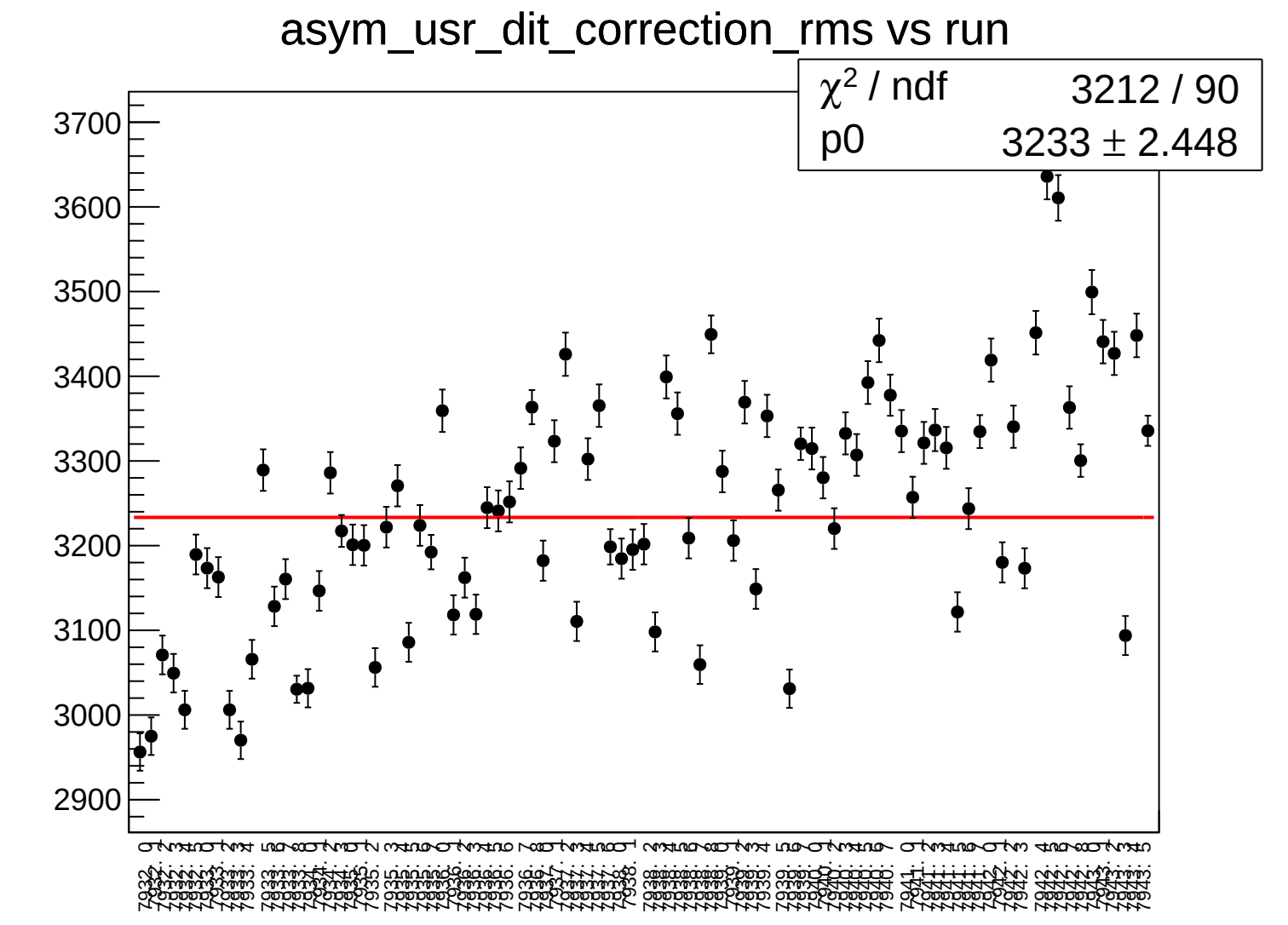

dit_asym_usr_mean vs run
χ² / ndf 106.6 / 90
p0 −1249 ± 1163
pull
Entries 91
Mean −396.9
Std Dev 0

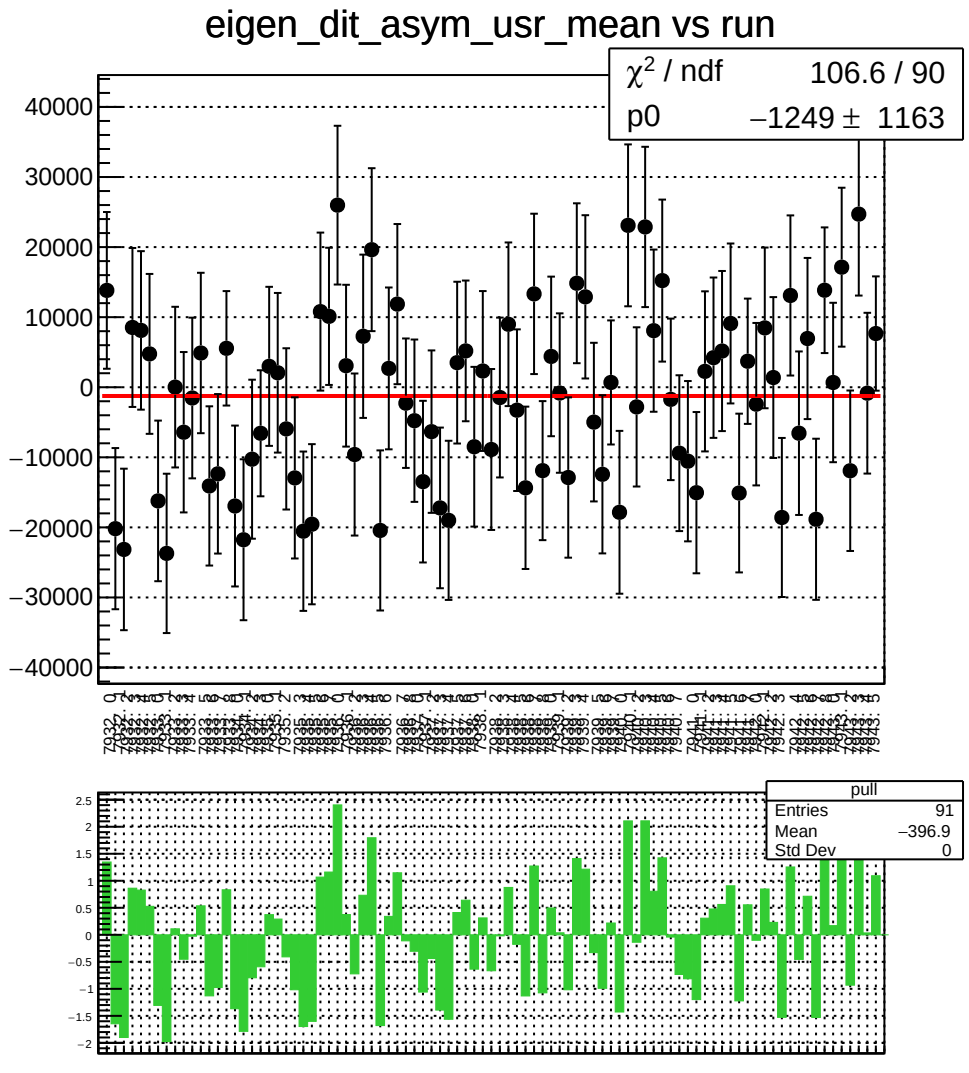

pull1D
Entries 91
Mean −0.01482
Std Dev 1.082

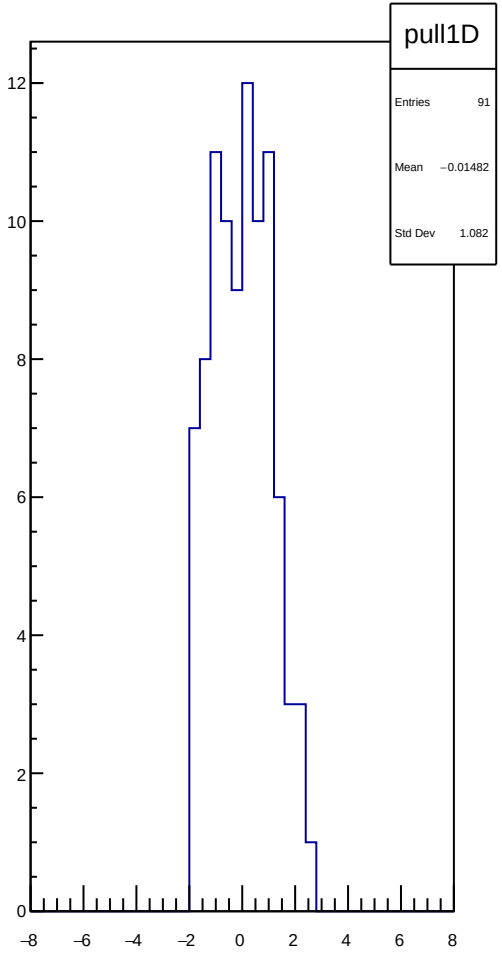

dit_asym_usr_rms vs run
χ² / ndf 113 / 90
p0 1087 ± 0.822
1120
1110
1100
1090
1080
1070
1060
1050

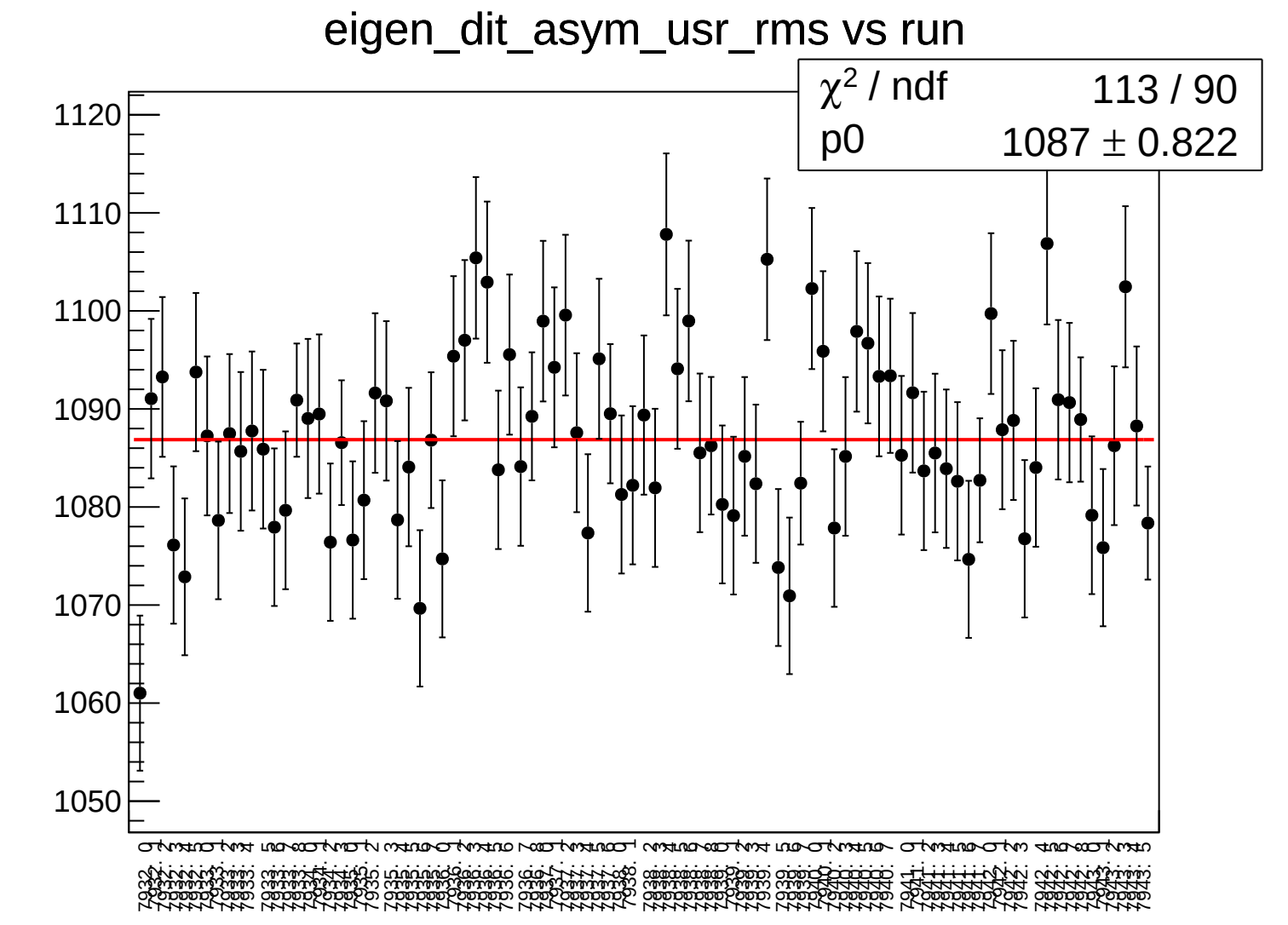

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 119.5 / 90
p0 −162.8 ± 3461
150
100
50
0
−50
−100
pull
Entries 91
Mean −107.7
Std Dev 0
3
2
1
0
−1
−2

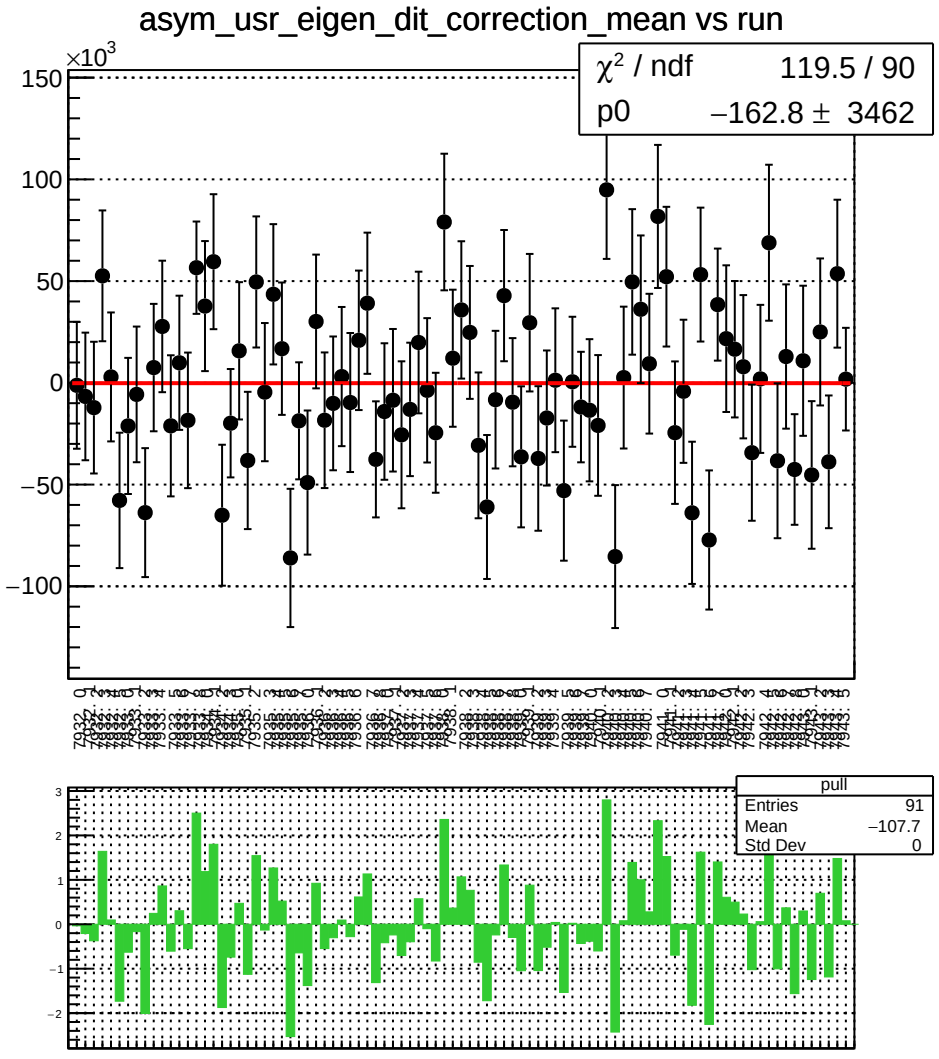

pull1D
Entries 91
Mean −0.007282
Std Dev 1.146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

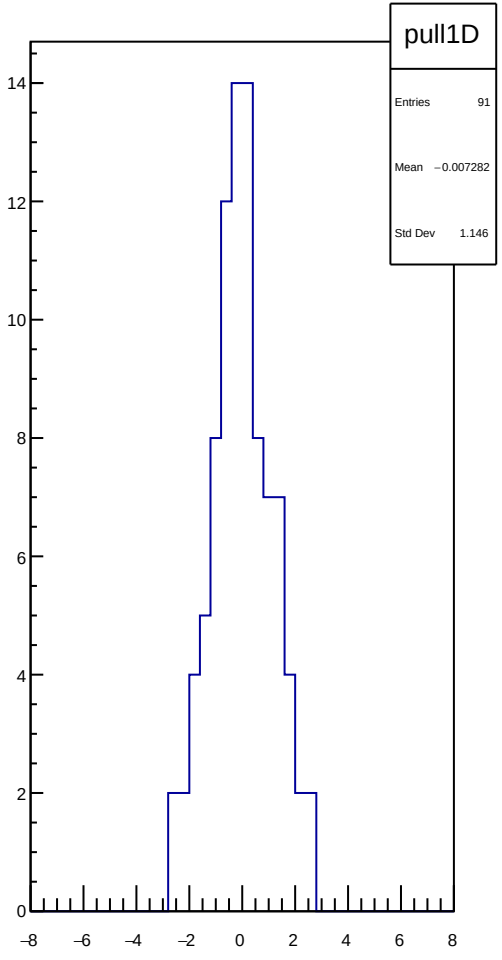

asym_usr_dit_correction_rms vs run
χ² / ndf 3212 / 90
p0 3233 ± 2.448
3700
3600
3500
3400
3300
3200
3100
3000
2900

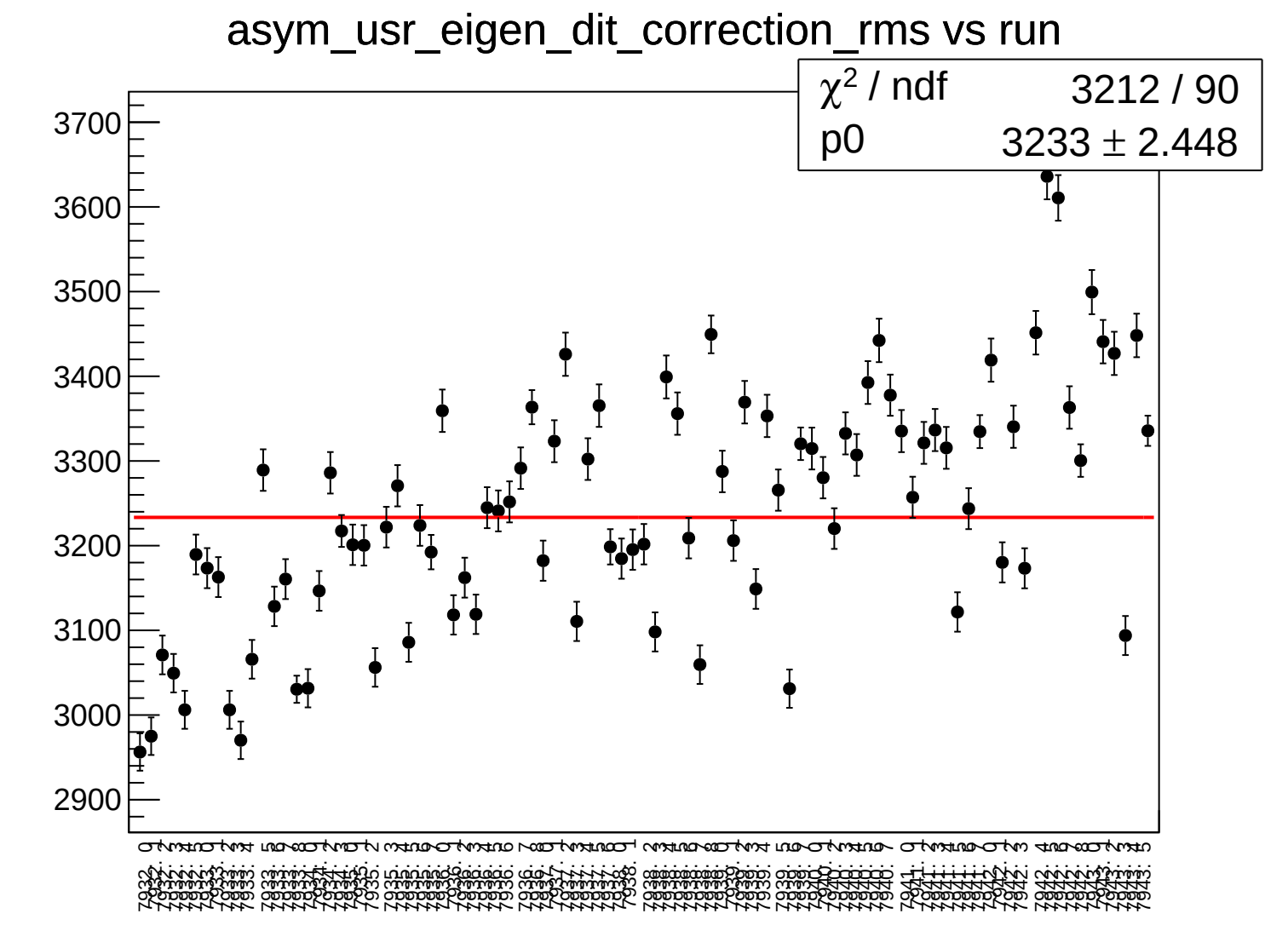

eigen_dit_asym_usr_mean vs run
χ² / ndf 106.6 / 90
p0 −1249 ± 1163
pull
Entries 91
Mean −396.9
Std Dev 0

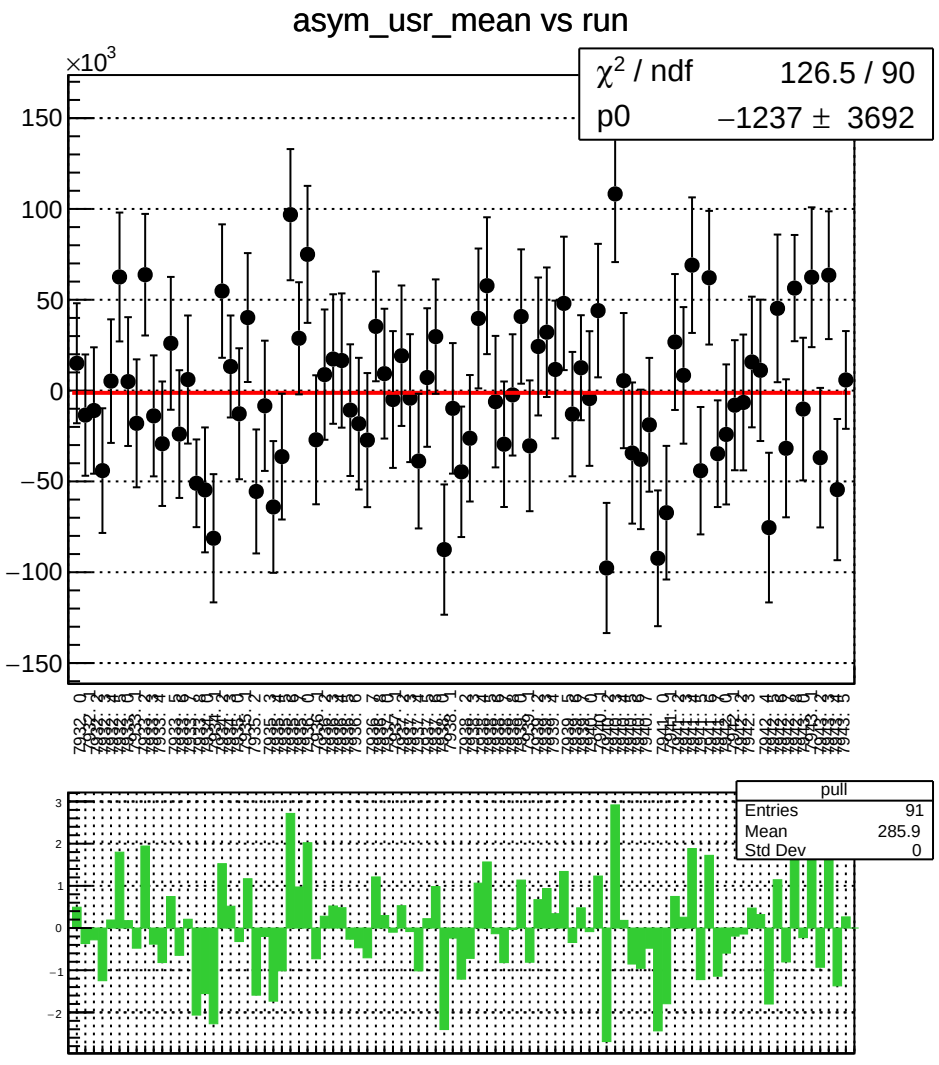

pull1D
Entries 91
Mean −0.01482
Std Dev 1.082

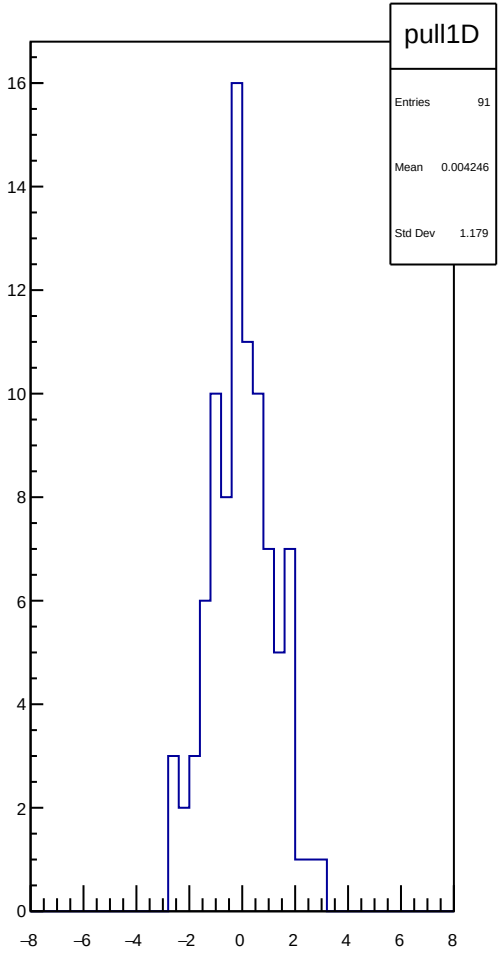

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 113 / 90
p0 1087 ± 0.822
1120
1110
1100
1090
1080
1070
1060
1050

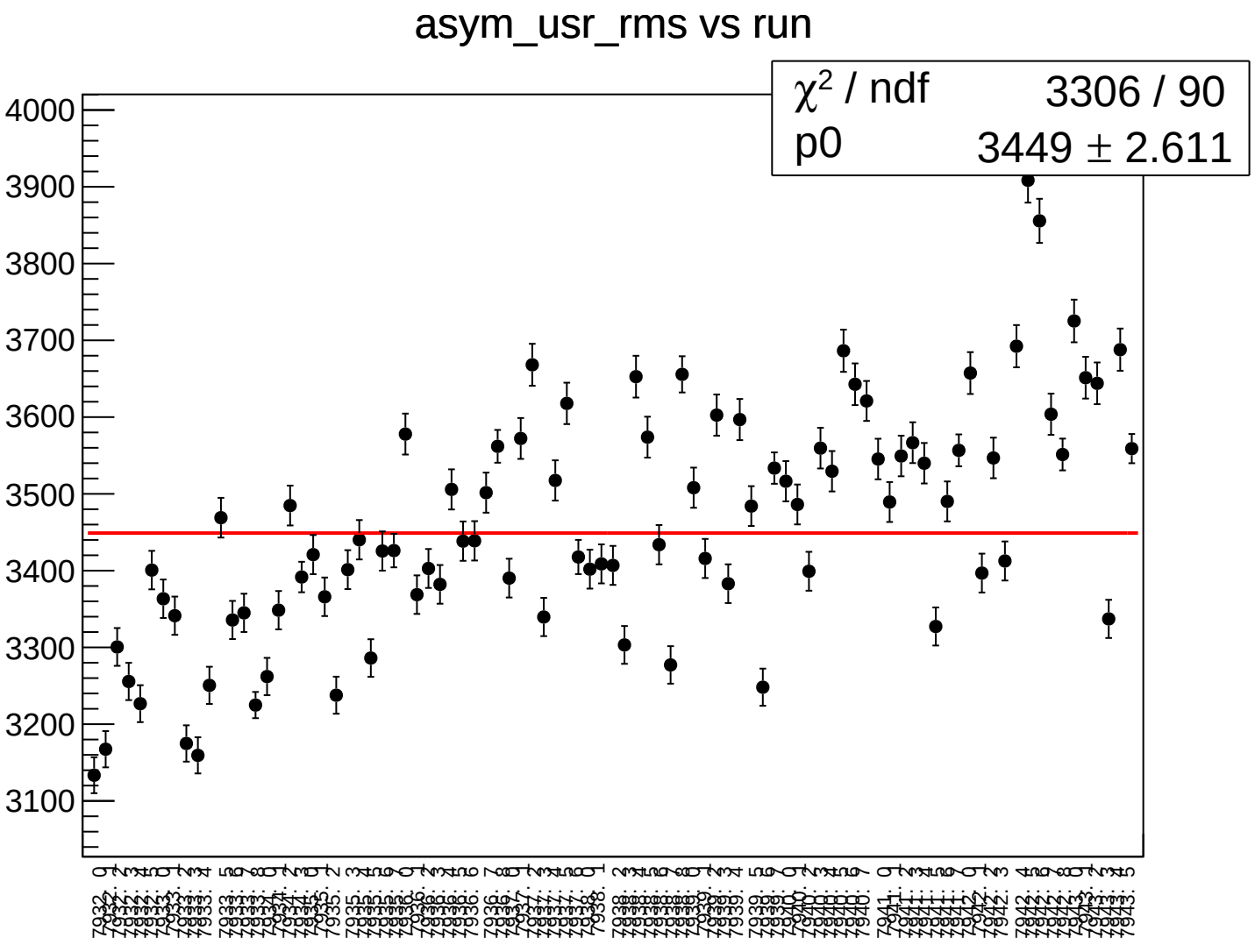

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 119.5 / 90
p0 −162.8 ± 3462
150
100
50
0
−50
−100
pull
Entries 91
Mean −107.7
Std Dev 0
3
2
1
0
−1
−2

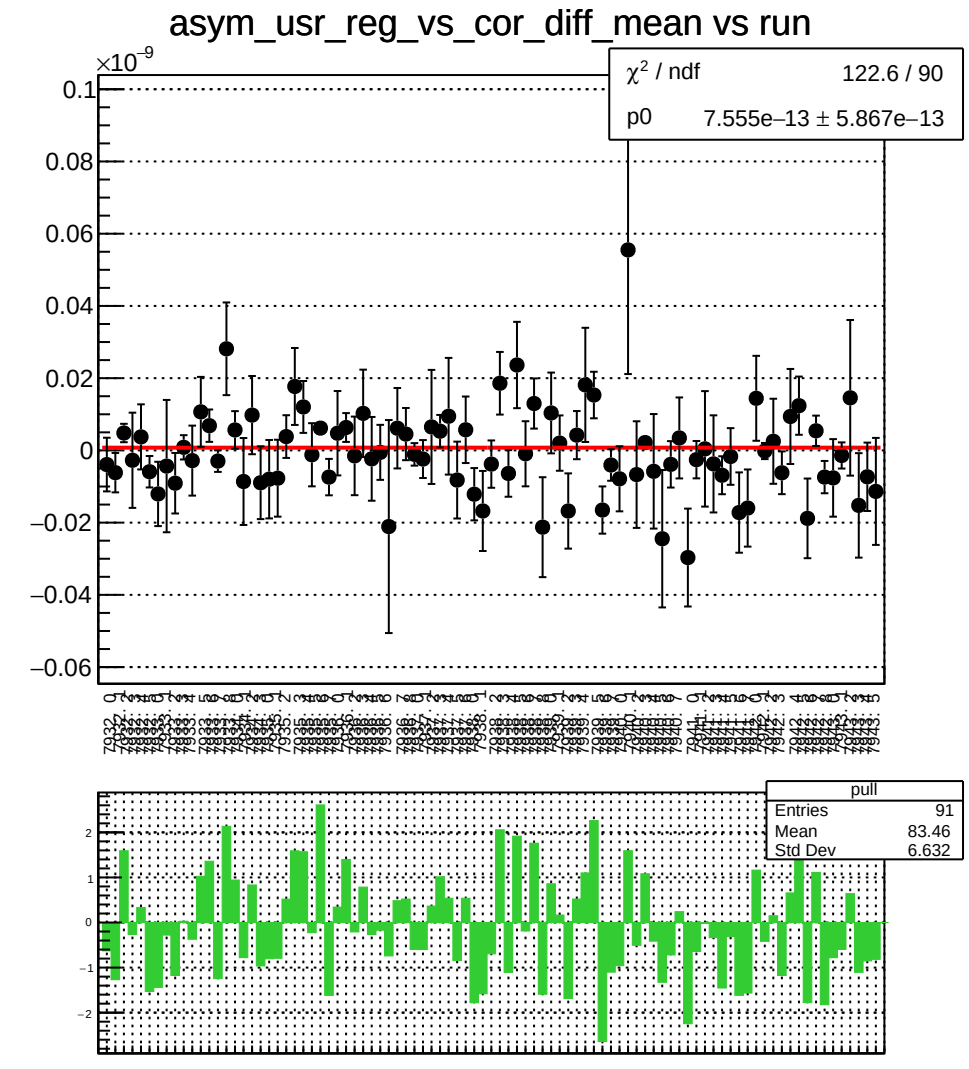

pull1D
Entries 91
Mean −0.007282
Std Dev 1.146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

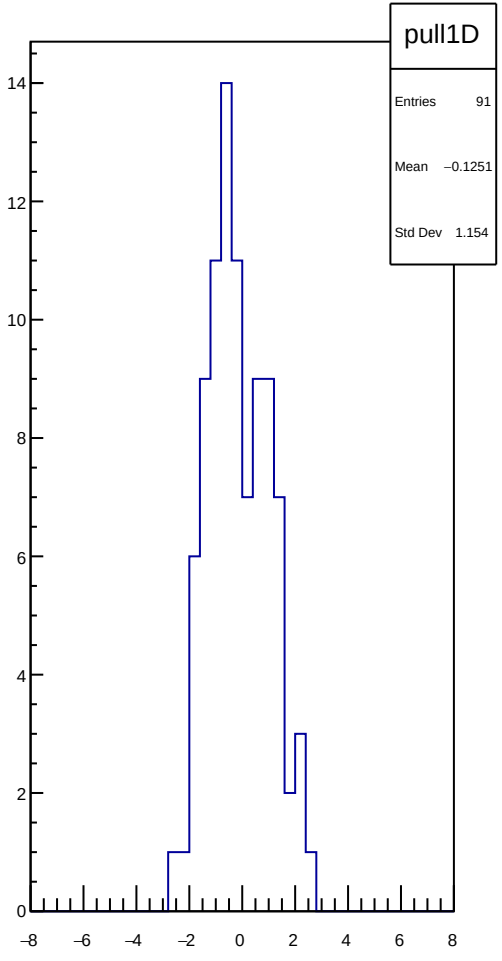

asym_usr_eigen_dit_correction_rms vs run
χ^2 / ndf 3212 / 90
p0 3233 ± 2.448
3700
3600
3500
3400
3300
3200
3100
3000
2900


asym_usr_mean vs run
×10^3
χ² / ndf 126.5 / 90
p0 −1237 ± 3692
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 285.9
Std Dev 0
3
2
1
0
−1
−2

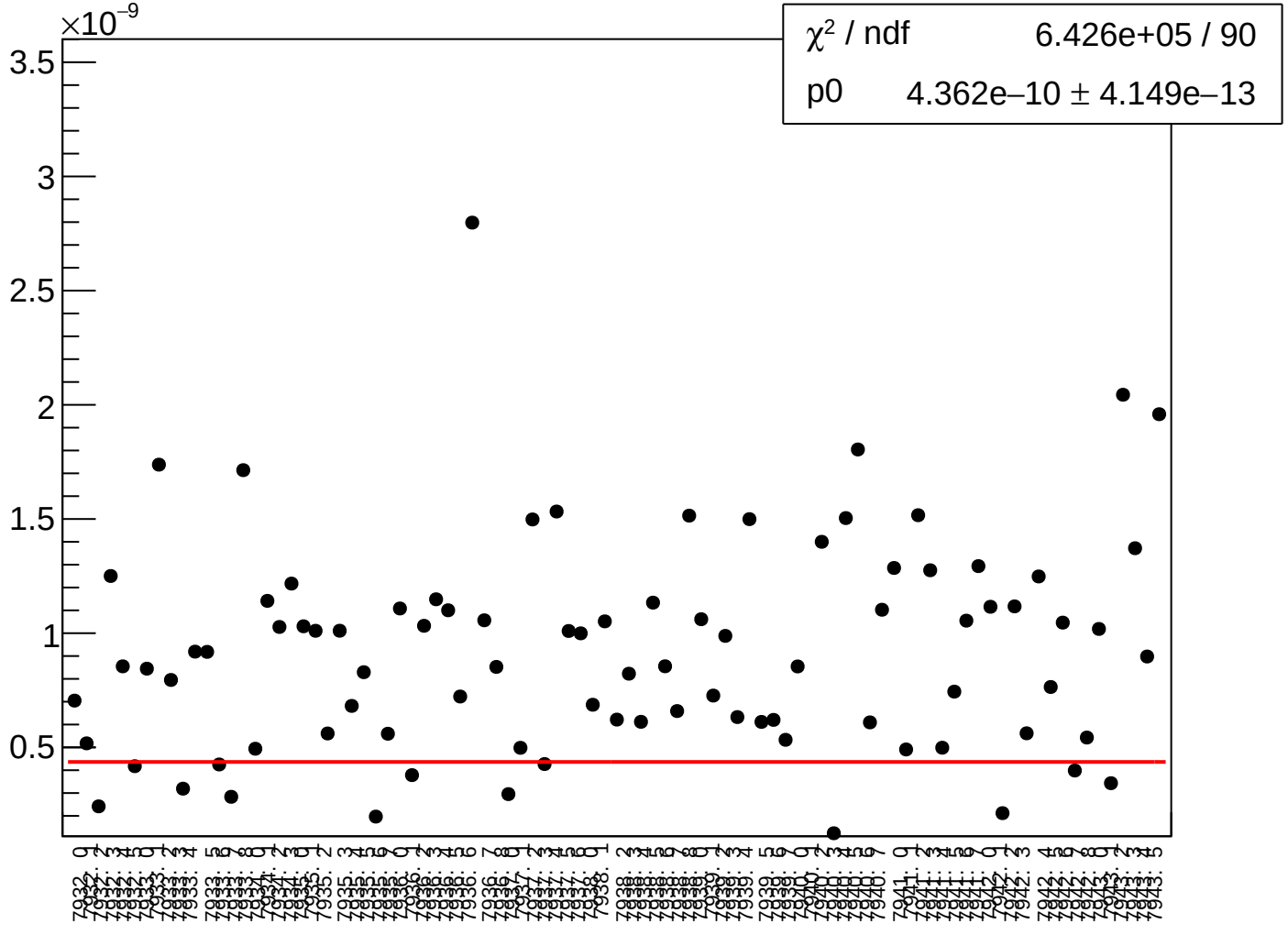

pull1D
Entries 91
Mean 0.004246
Std Dev 1.179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

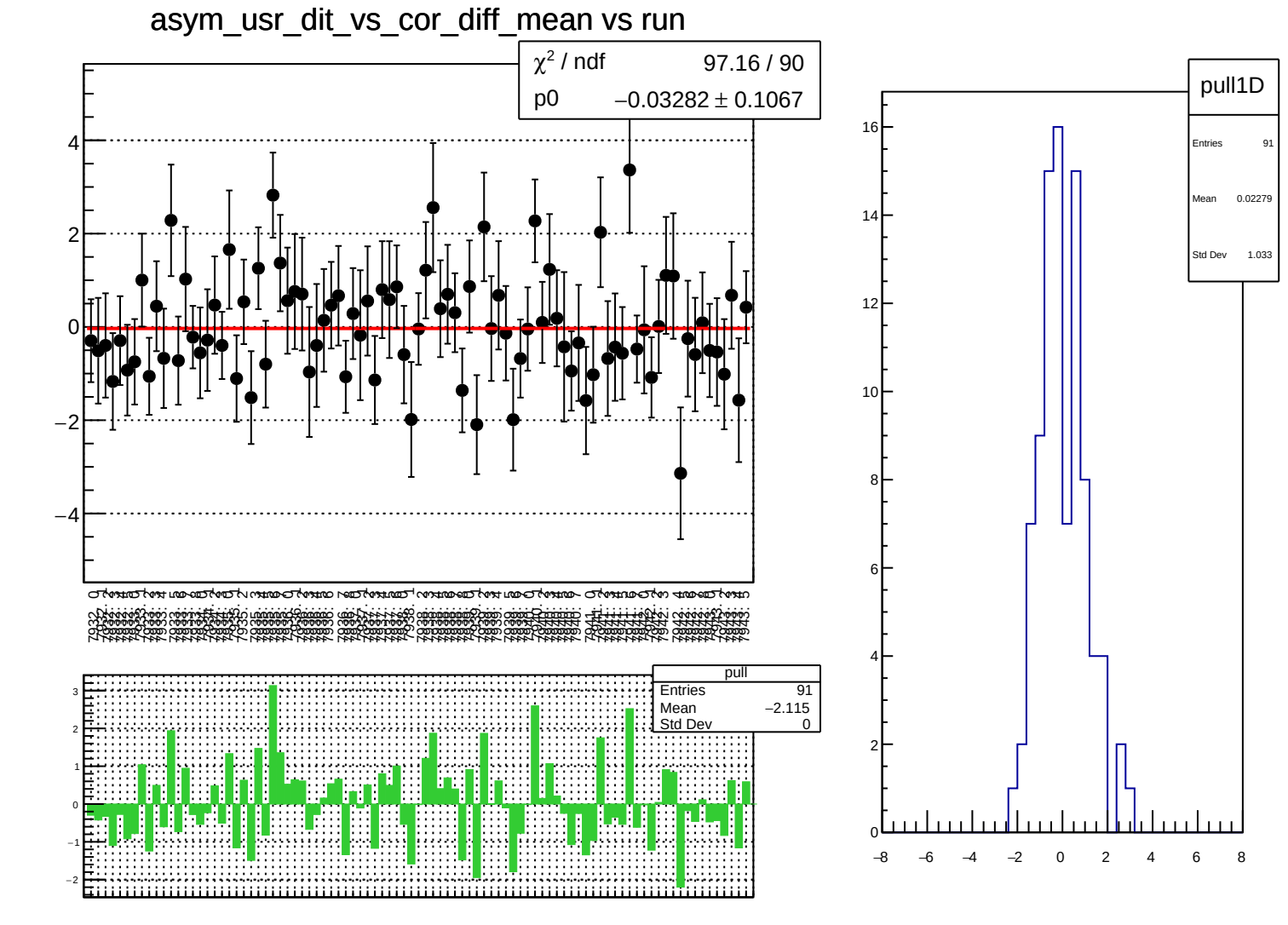

asym_usr_rms vs run
χ² / ndf 3306 / 90
p0 3449 ± 2.611
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

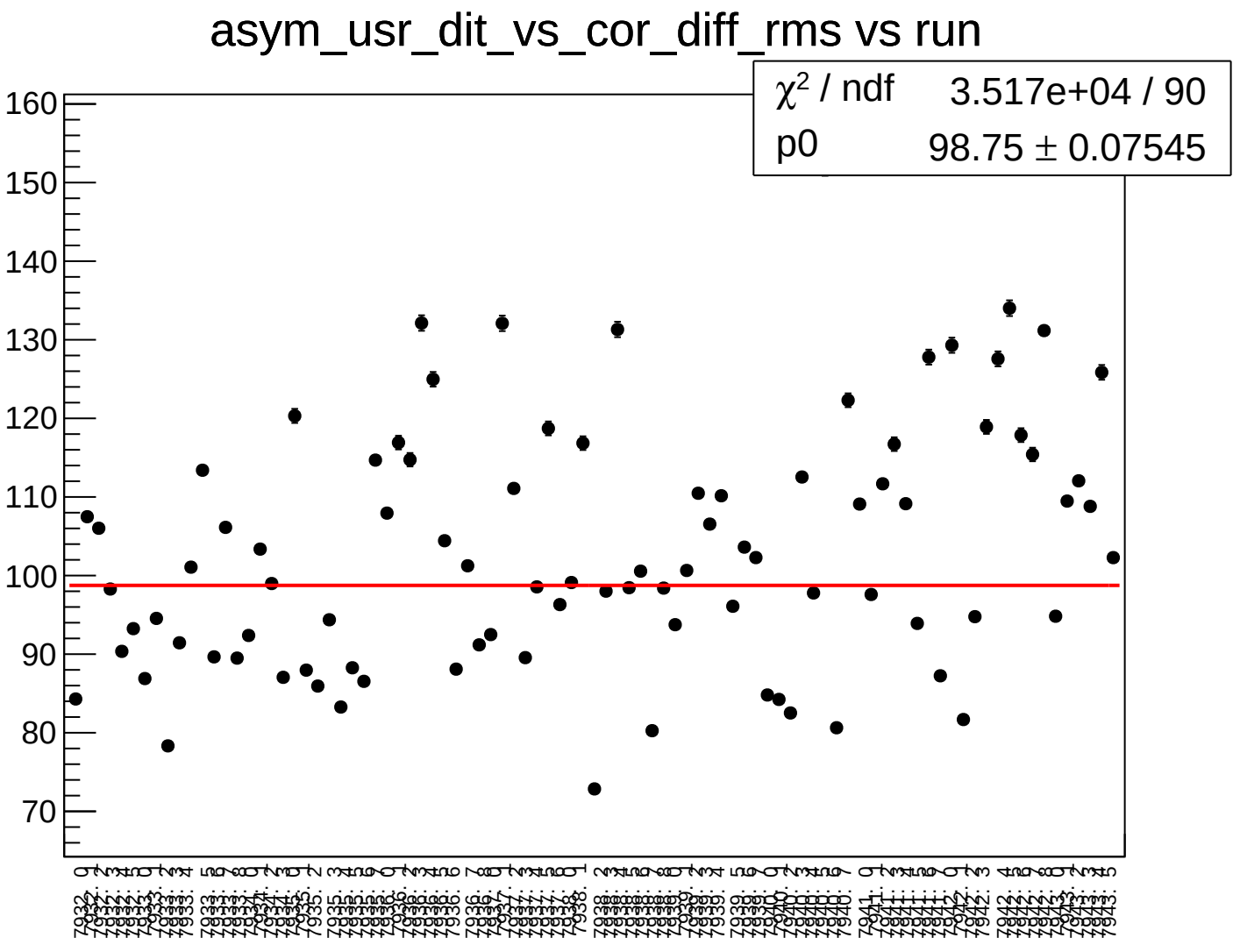

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 122.6 / 90
p0 7.555e−13 ± 5.867e−13
pull
Entries 91
Mean 83.46
Std Dev 6.632

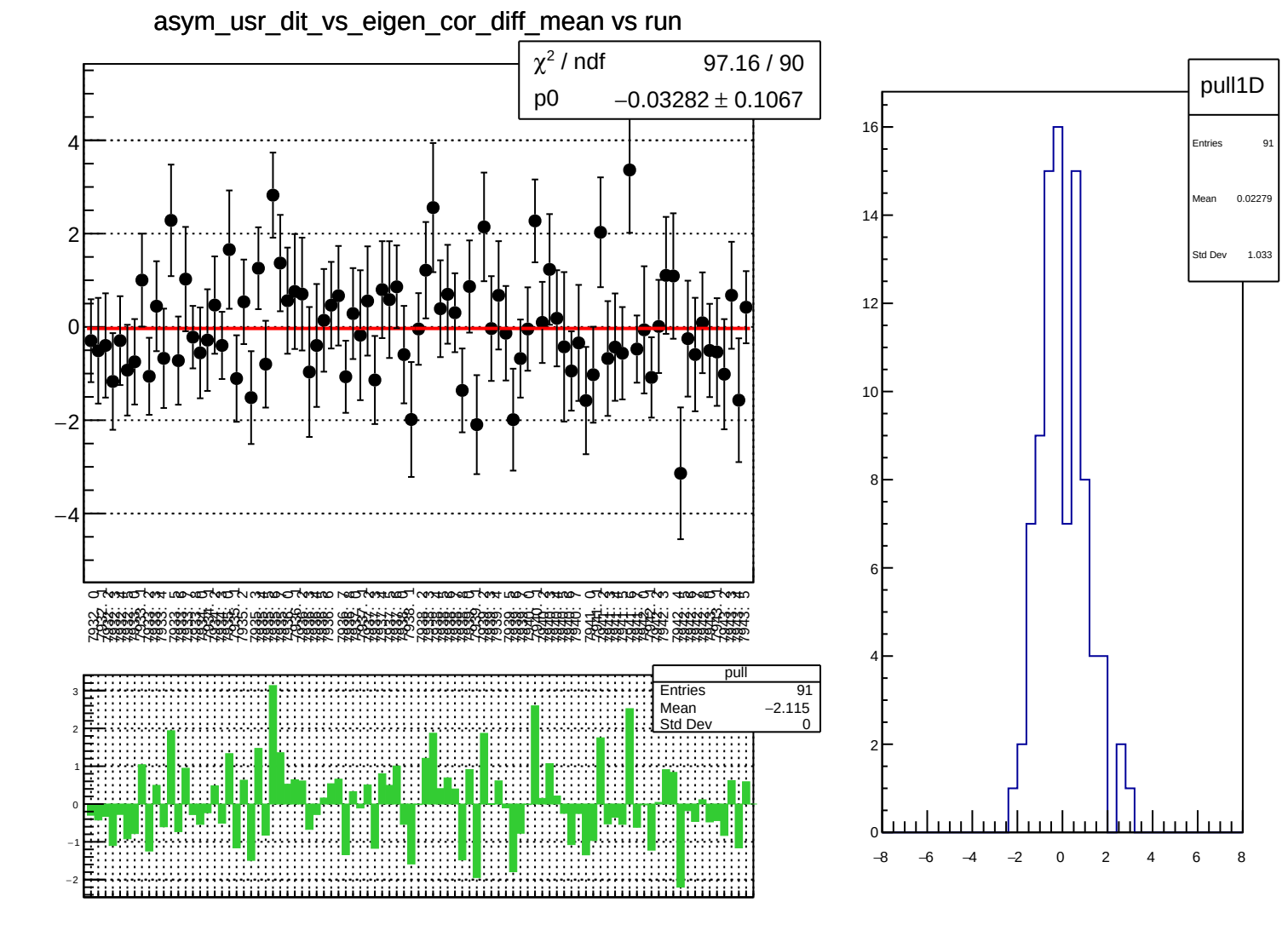

pull1D
Entries 91
Mean −0.1251
Std Dev 1.154

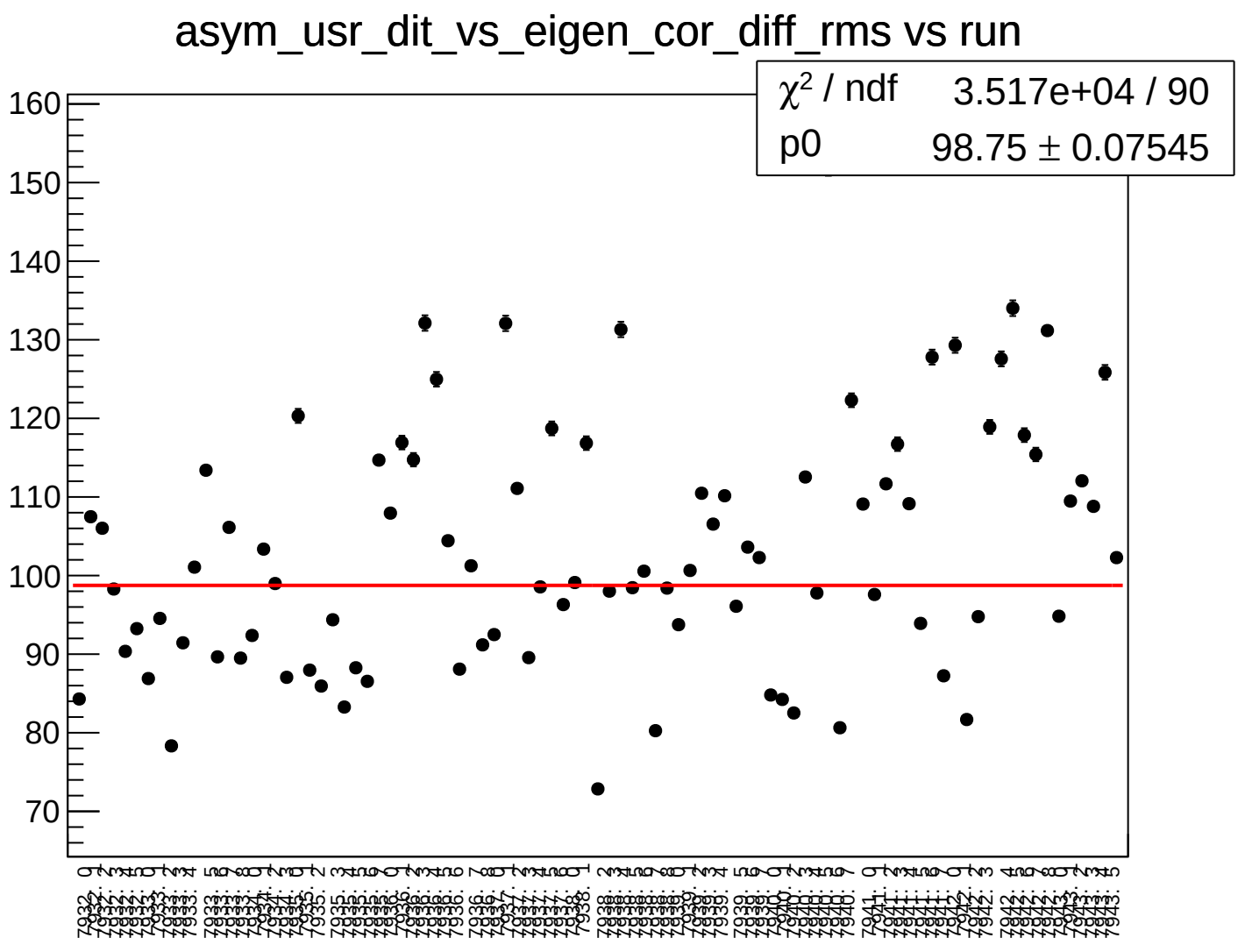
asym_usr_reg_vs_cor_diff_rms vs run

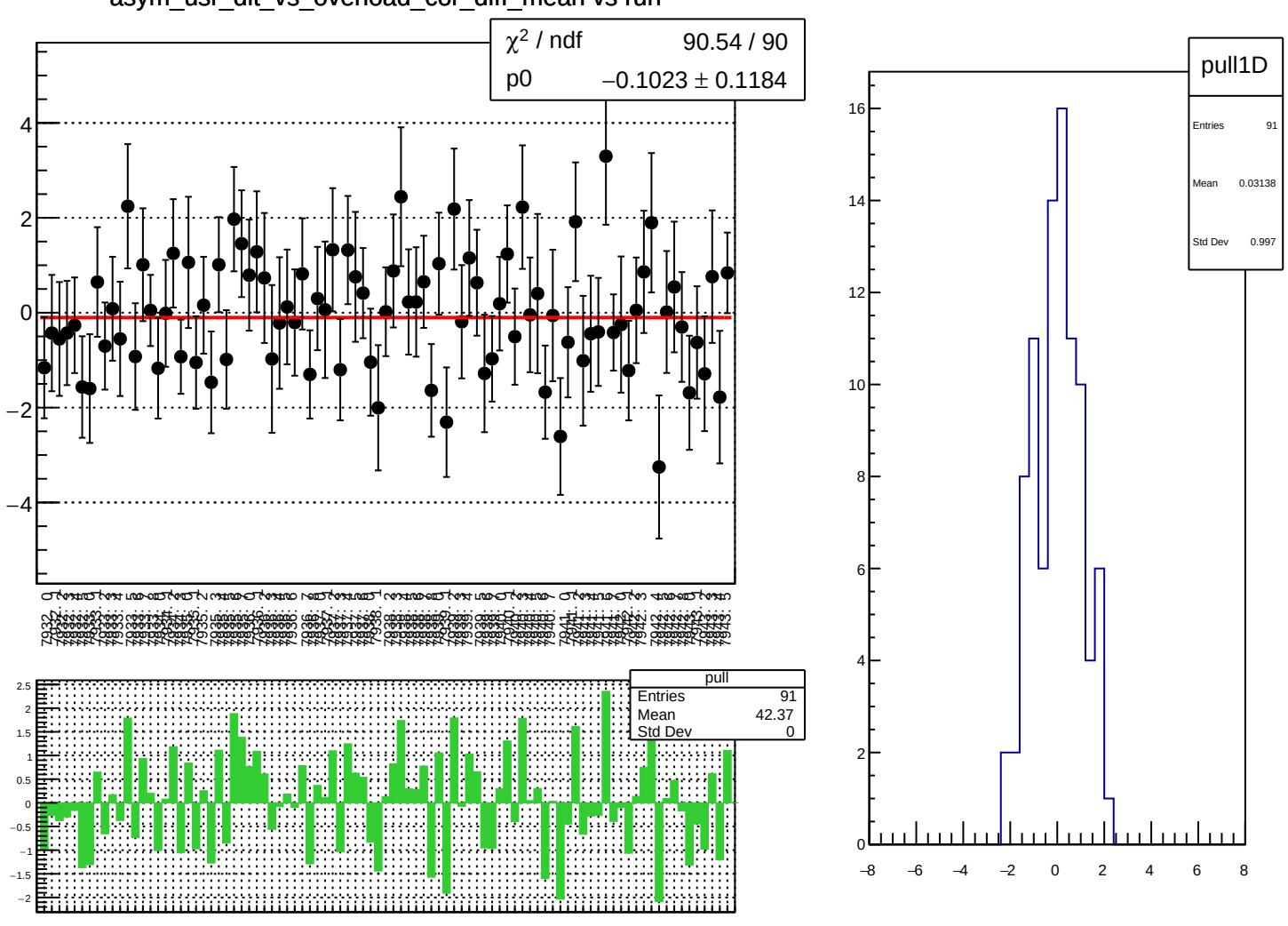


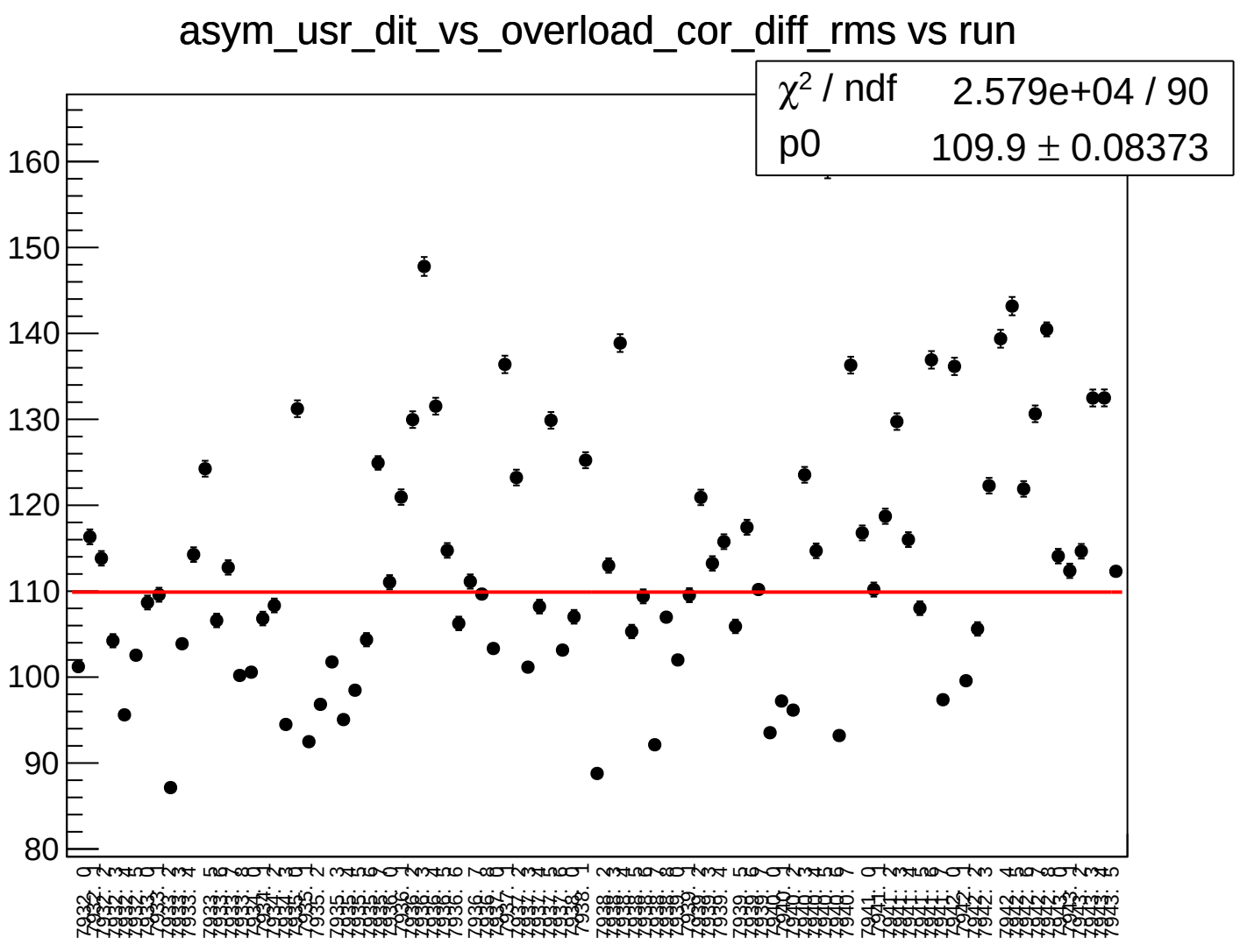

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 97.16 / 90
p0 −0.03282 ± 0.1067
pull
Entries 91
Mean −2.115
Std Dev 0
pull1D
Entries 91
Mean 0.02279
Std Dev 1.033

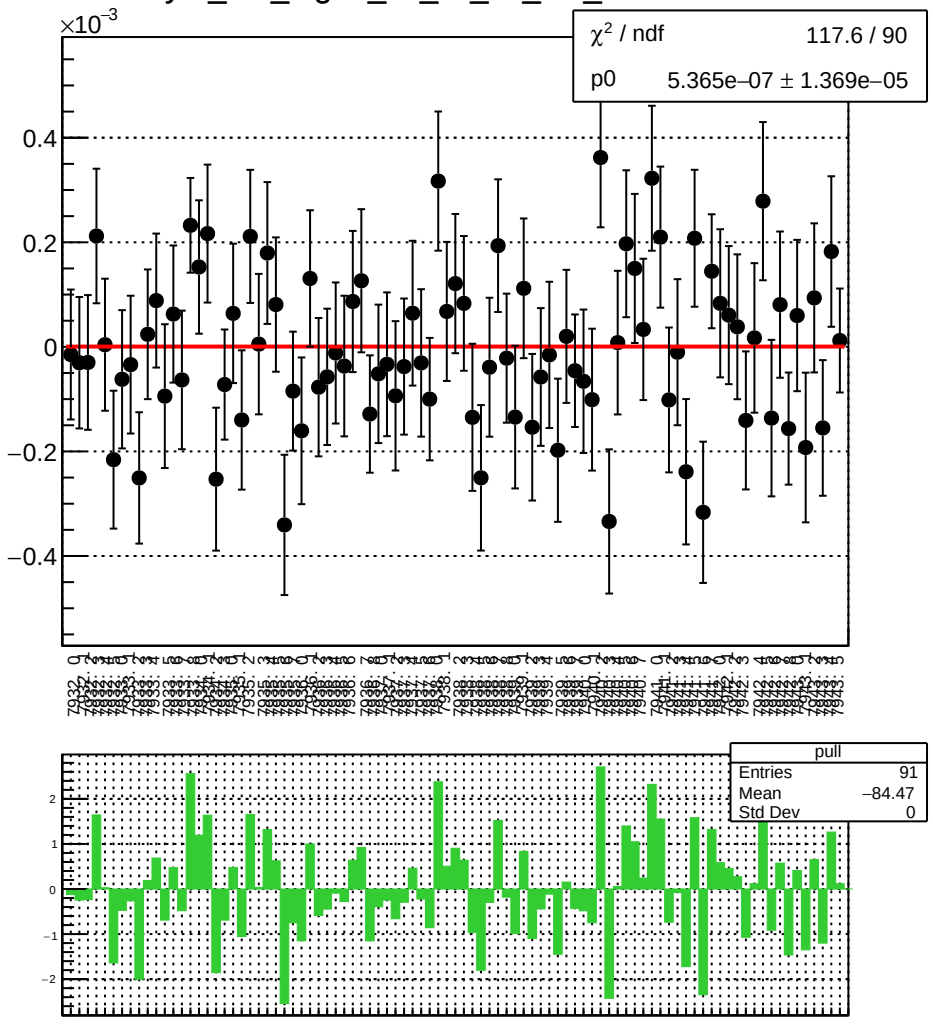

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.517e+04 / 90
p0 98.75 ± 0.07545
160
150
140
130
120
110
100
90
80
70

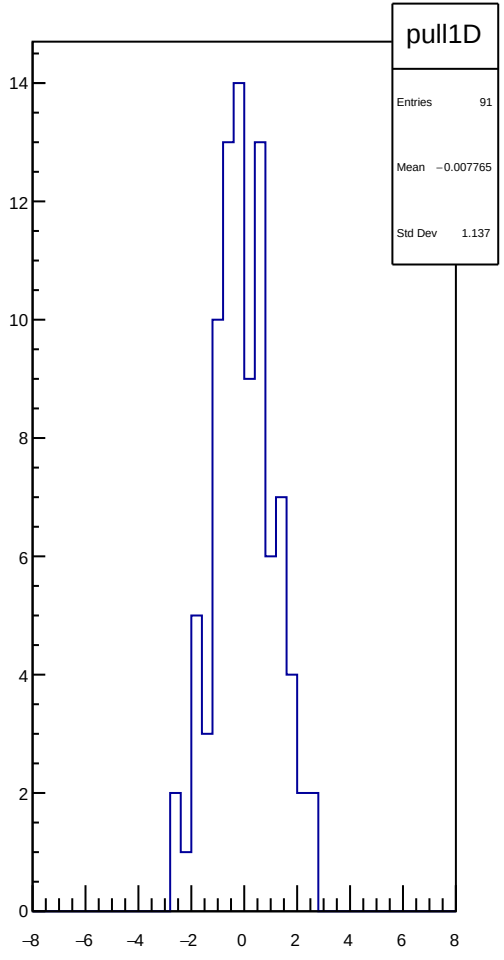

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.16 / 90
p0 −0.03282 ± 0.1067
pull
Entries 91
Mean −2.115
Std Dev 0
pull1D
Entries 91
Mean 0.02279
Std Dev 1.033

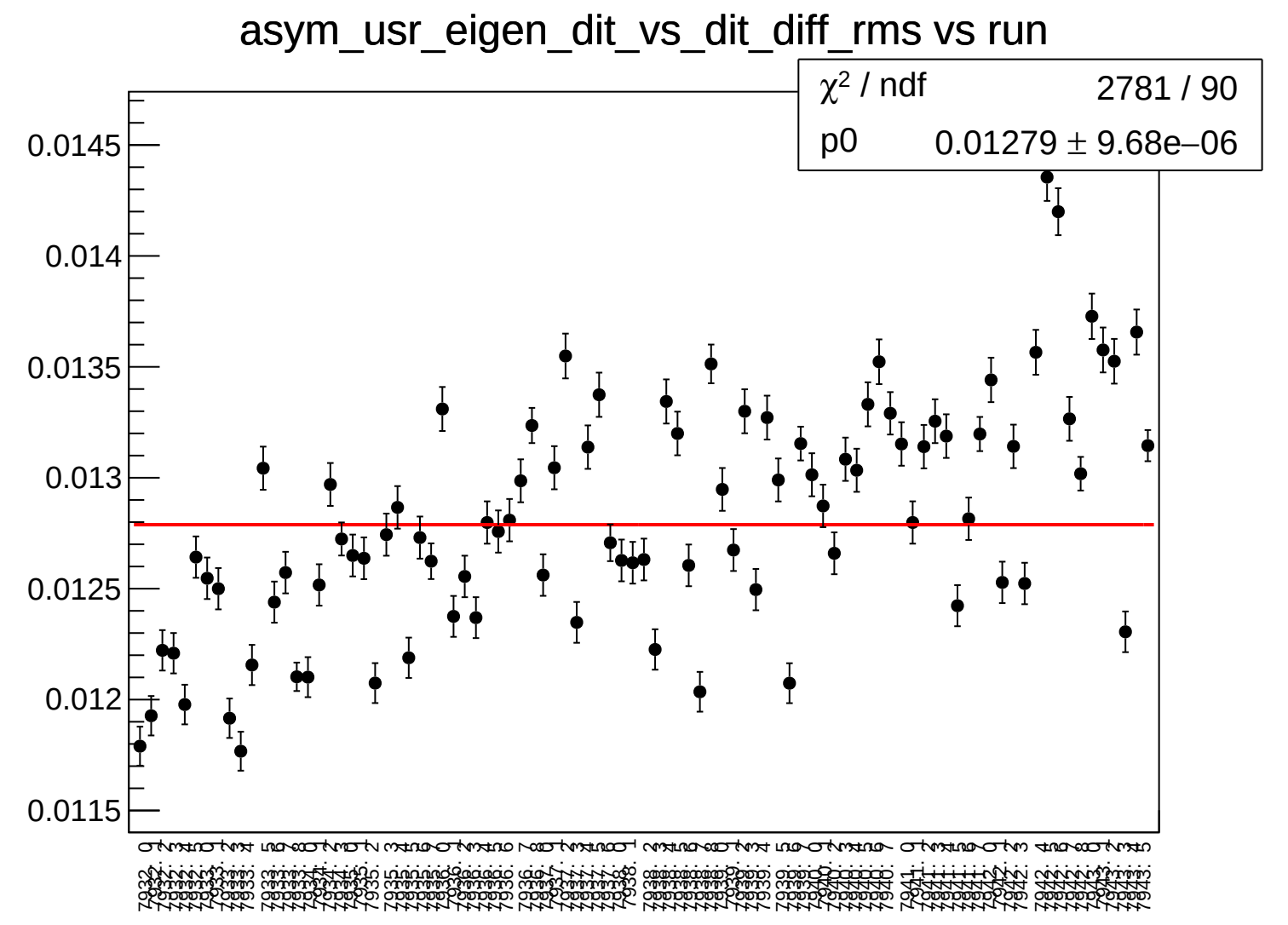

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.517e+04 / 90
p0 98.75 ± 0.07545
160
150
140
130
120
110
100
90
80
70

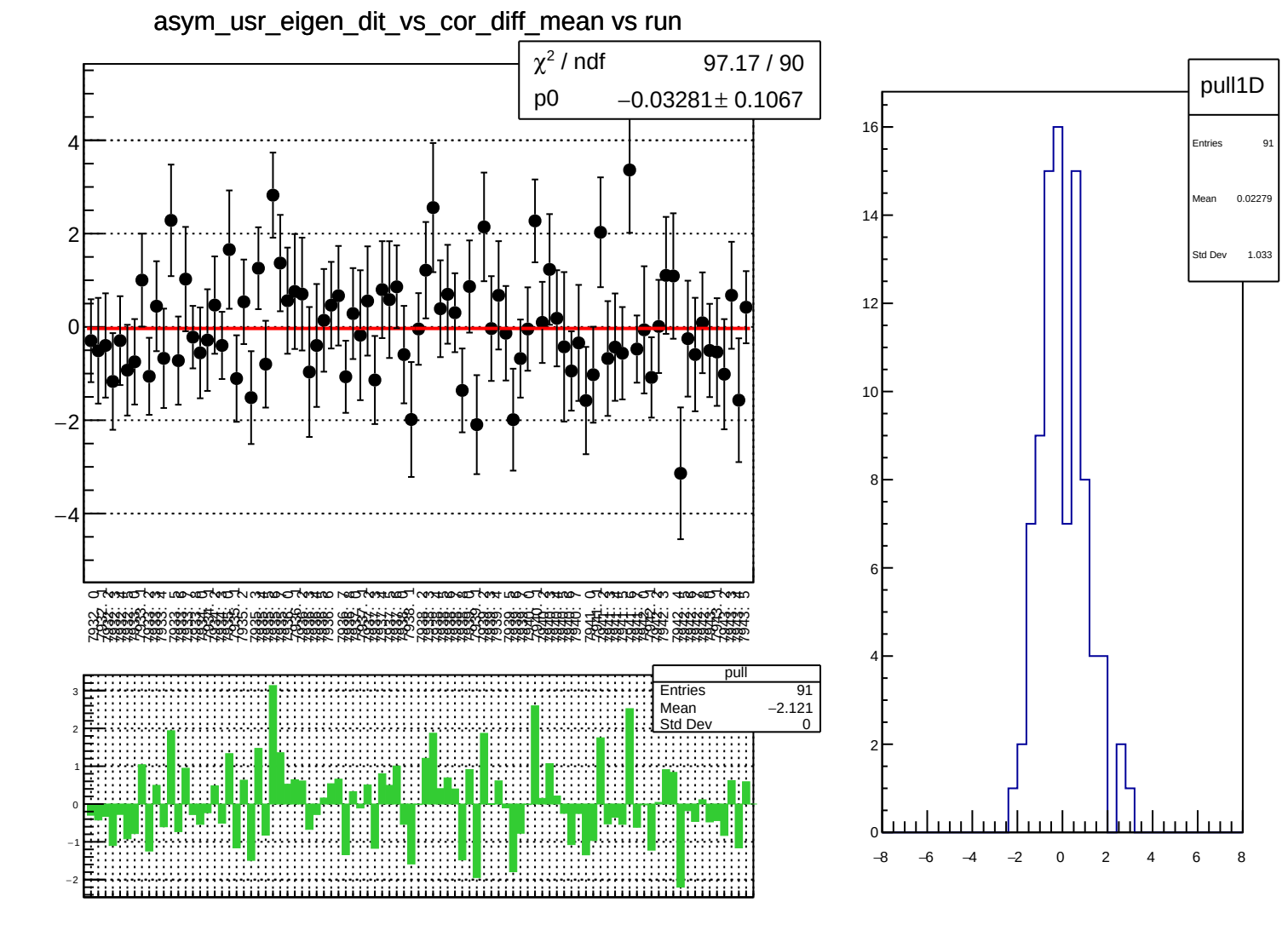

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.54 / 90
p0 −0.1023 ± 0.1184
pull
Entries 91
Mean 42.37
Std Dev 0
pull1D
Entries 91
Mean 0.03138
Std Dev 0.997

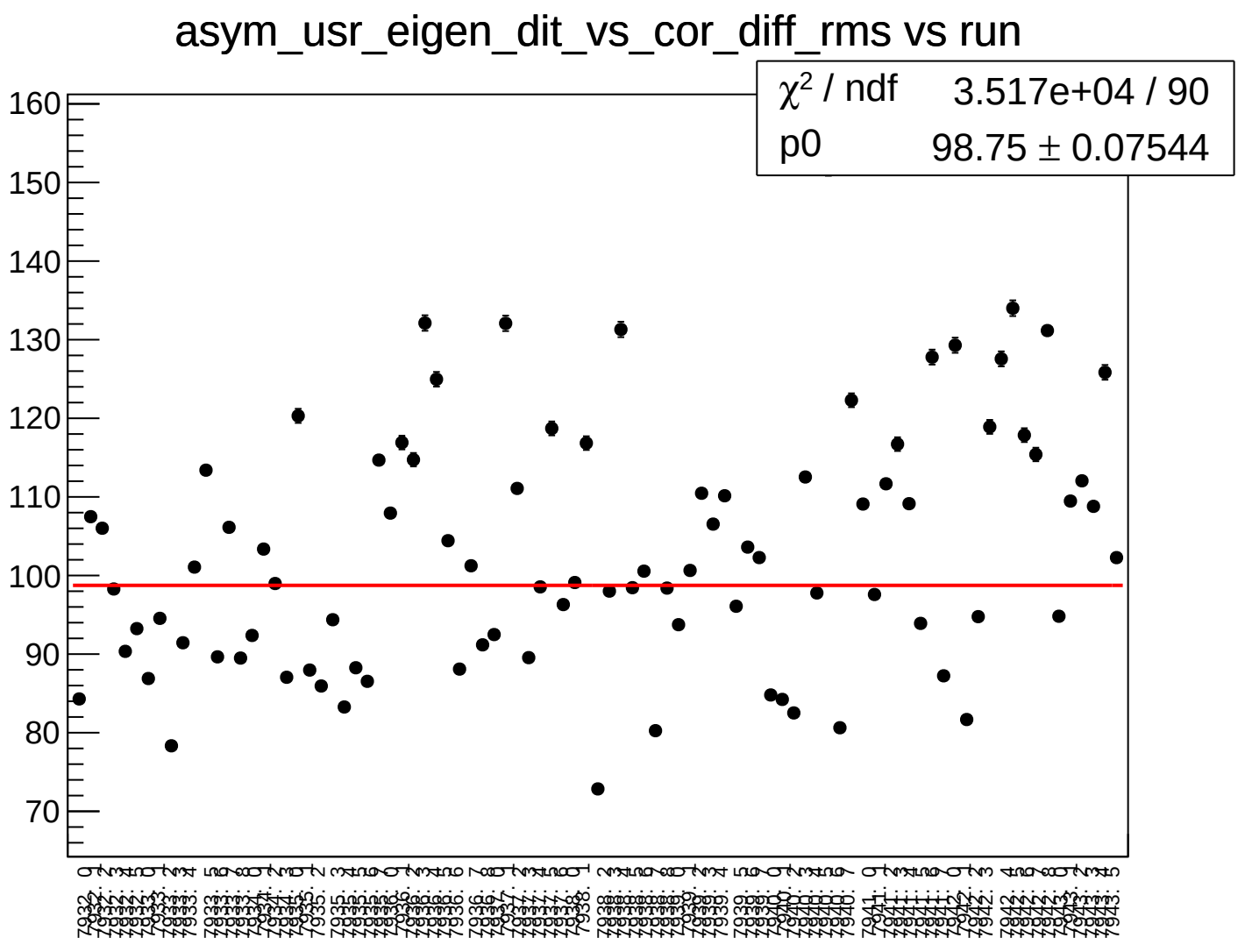

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.579e+04 / 90
p0 109.9 ± 0.08373
160
150
140
130
120
110
100
90
80

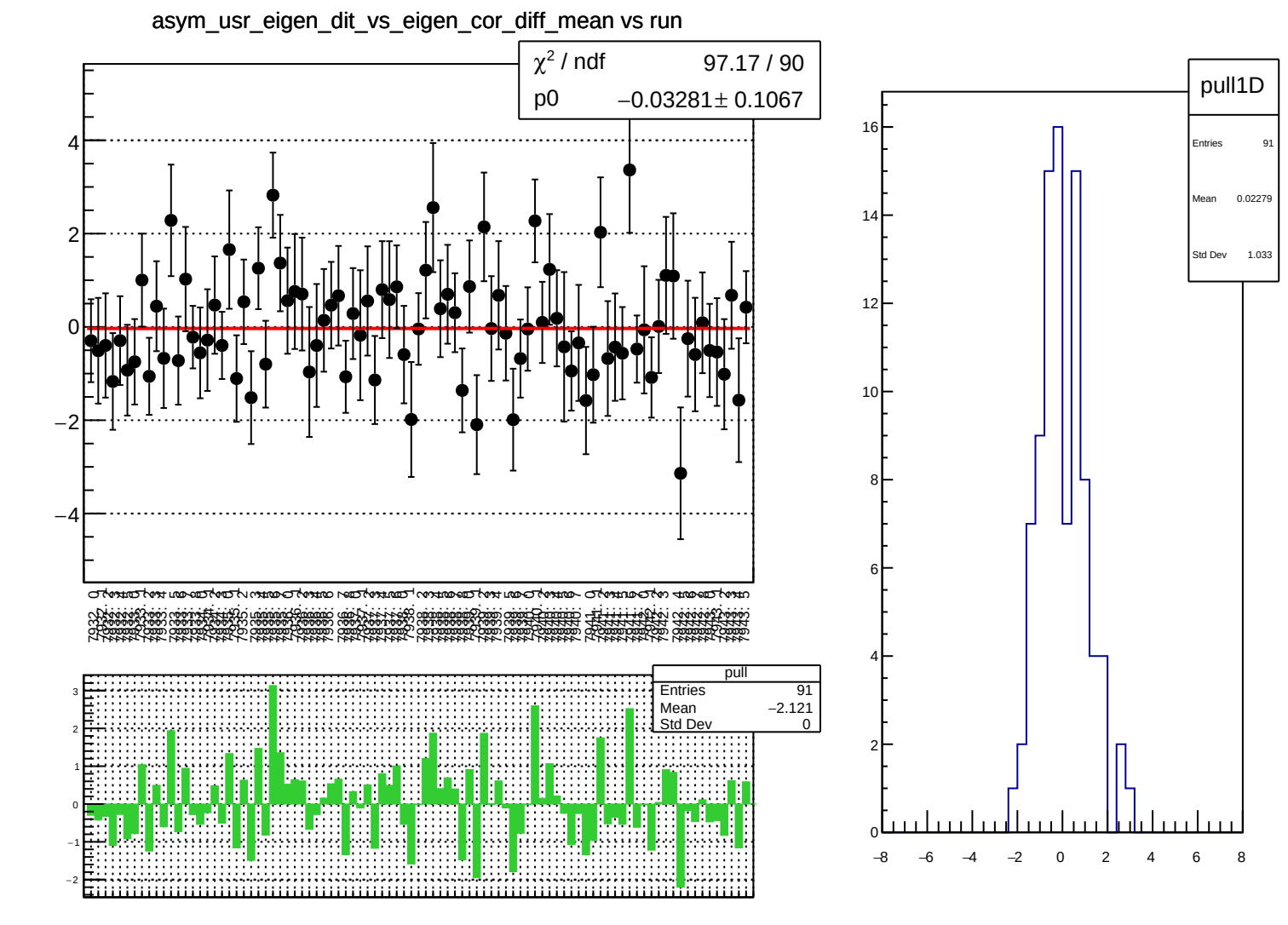

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.6 / 90
p0 5.365e−07 ± 1.369e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −84.47
Std Dev 0
2
1
0
−1
−2

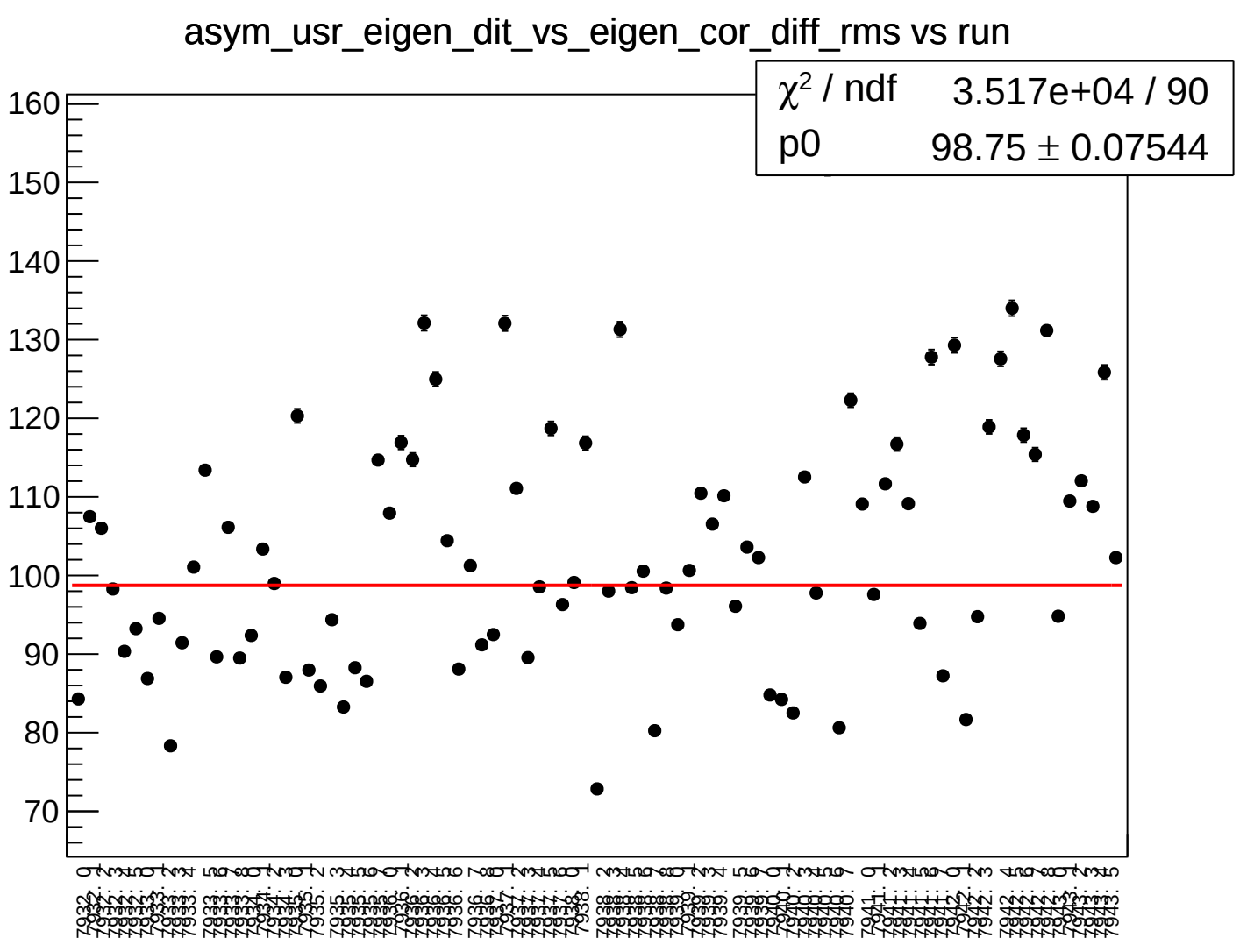

pull1D
Entries 91
Mean −0.007765
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

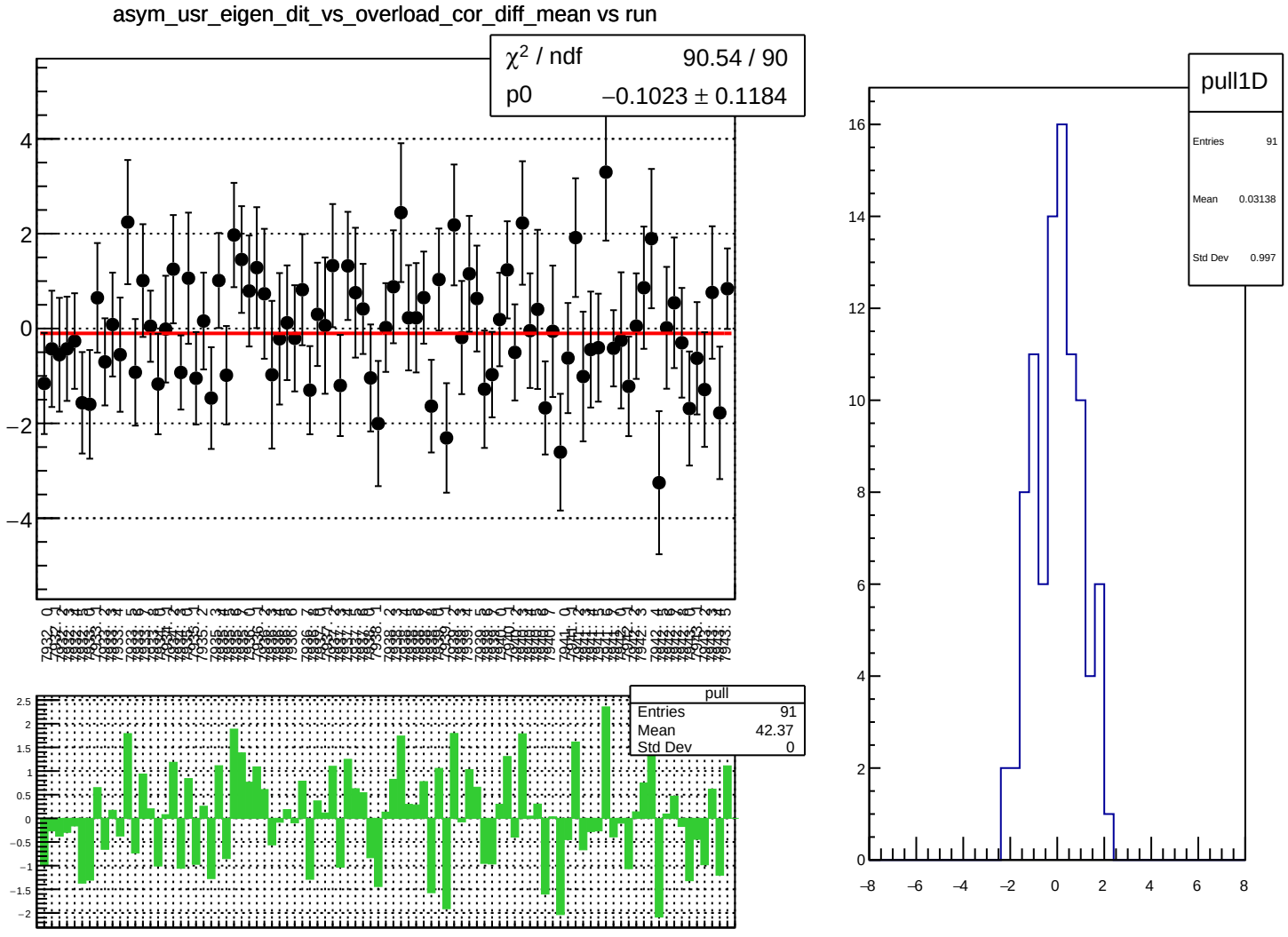

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2781 / 90
p0 0.01279 ± 9.68e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

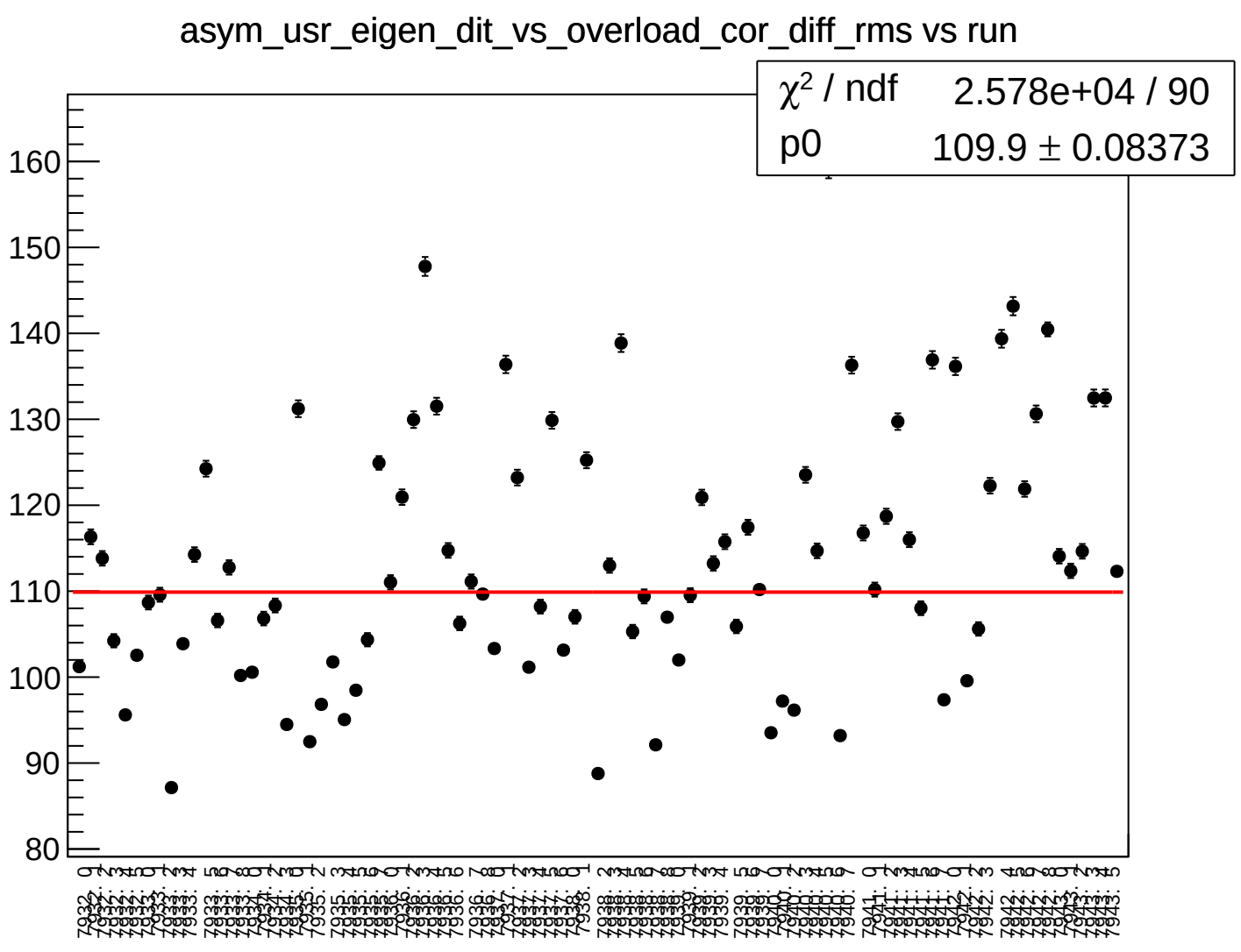

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.17 / 90
p0 −0.03281 ± 0.1067
pull
Entries 91
Mean −2.121
Std Dev 0
pull1D
Entries 91
Mean 0.02279
Std Dev 1.033

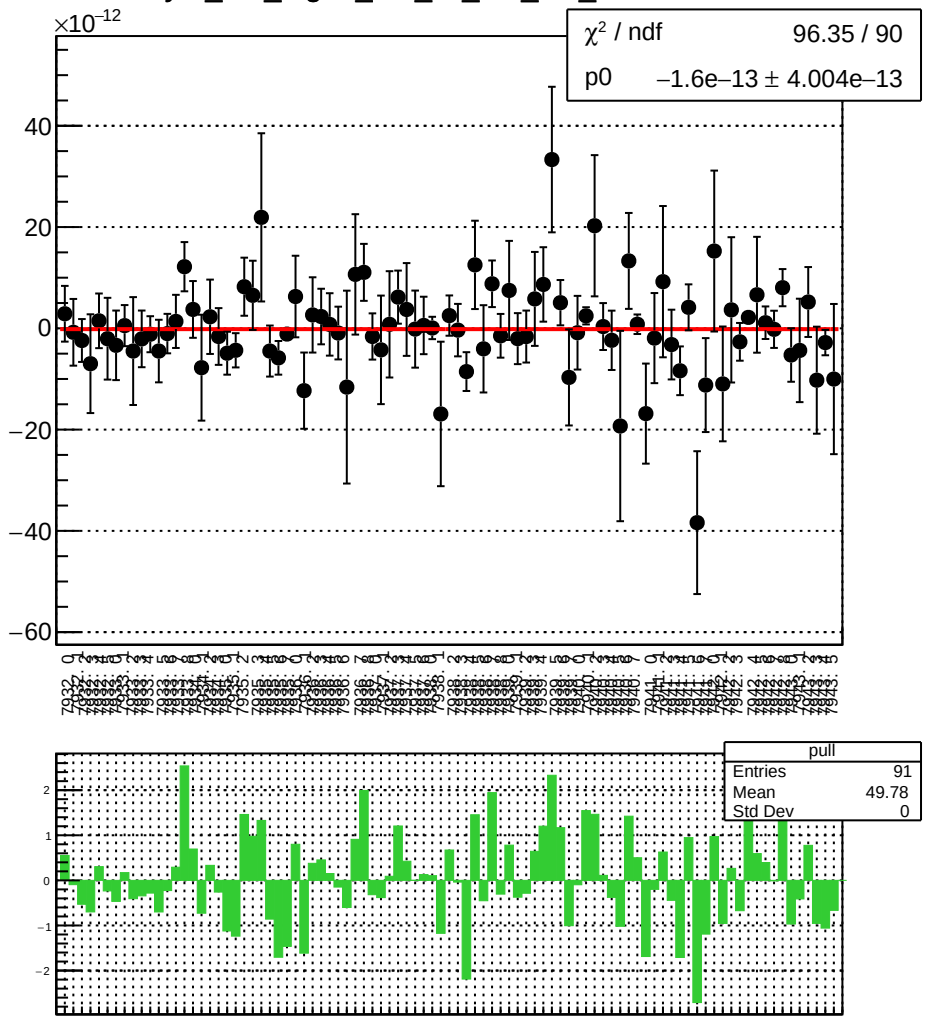

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.517e+04 / 90
p0 98.75 ± 0.07544
160
150
140
130
120
110
100
90
80
70

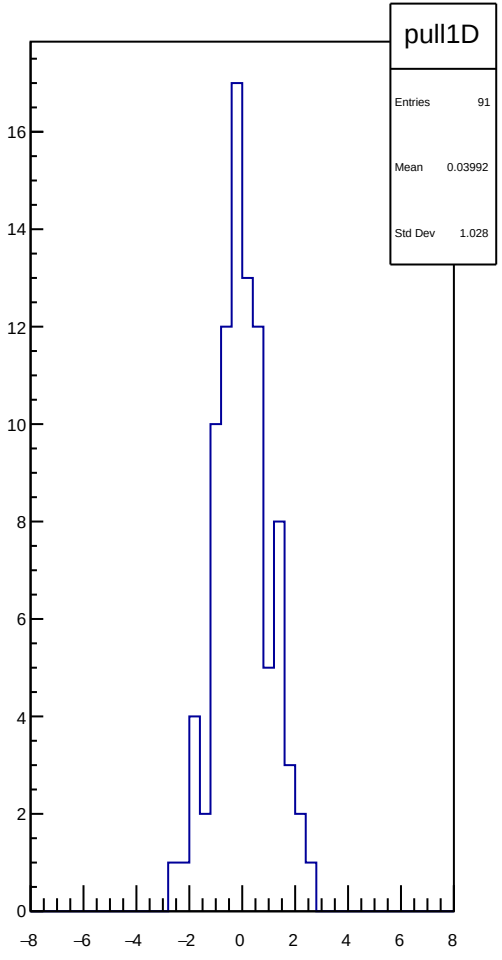

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.17 / 90
p0 −0.03281 ± 0.1067
pull
Entries 91
Mean −2.121
Std Dev 0
pull1D
Entries 91
Mean 0.02279
Std Dev 1.033

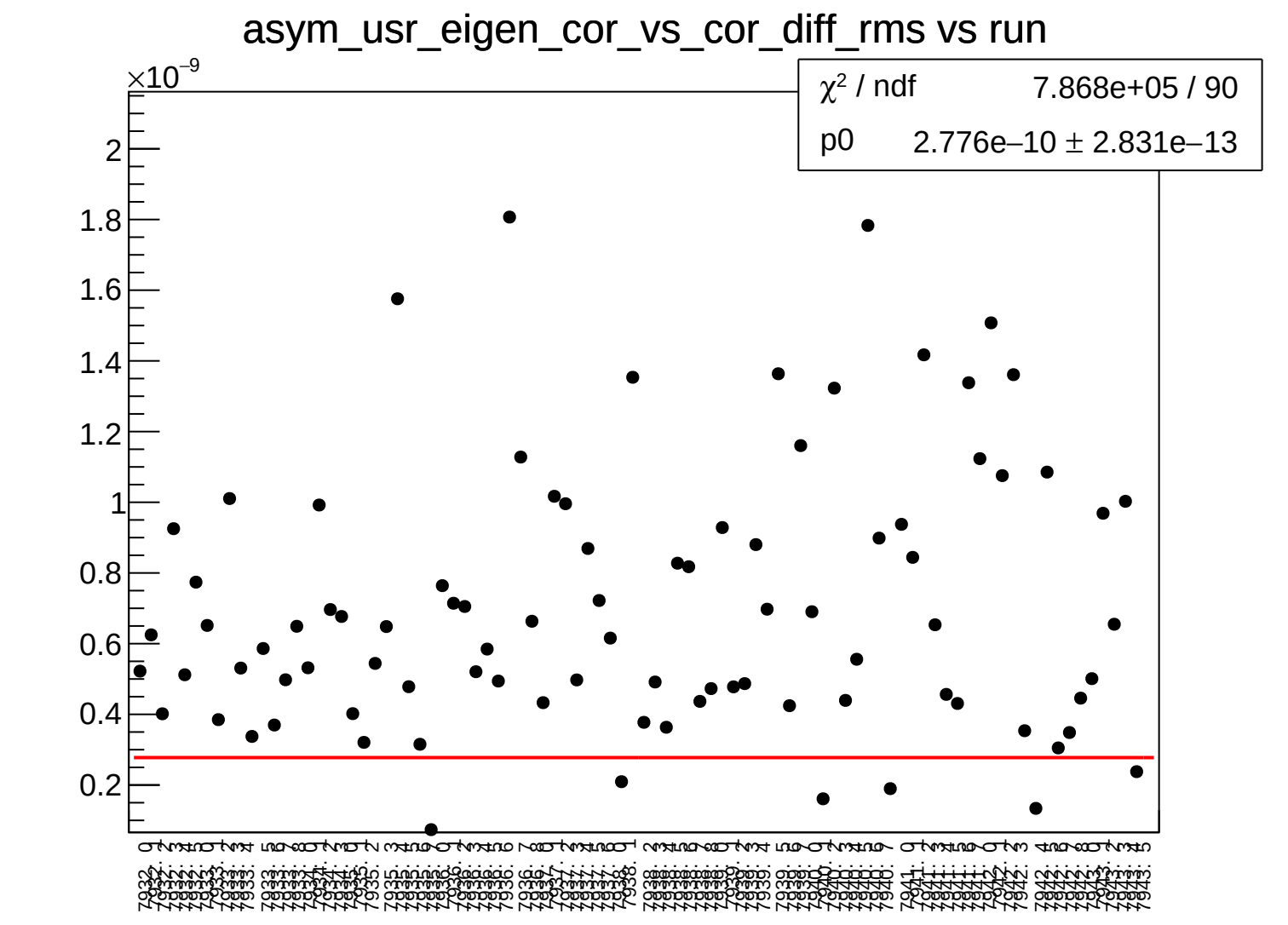

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.517e+04 / 90
p0 98.75 ± 0.07544
160
150
140
130
120
110
100
90
80
70

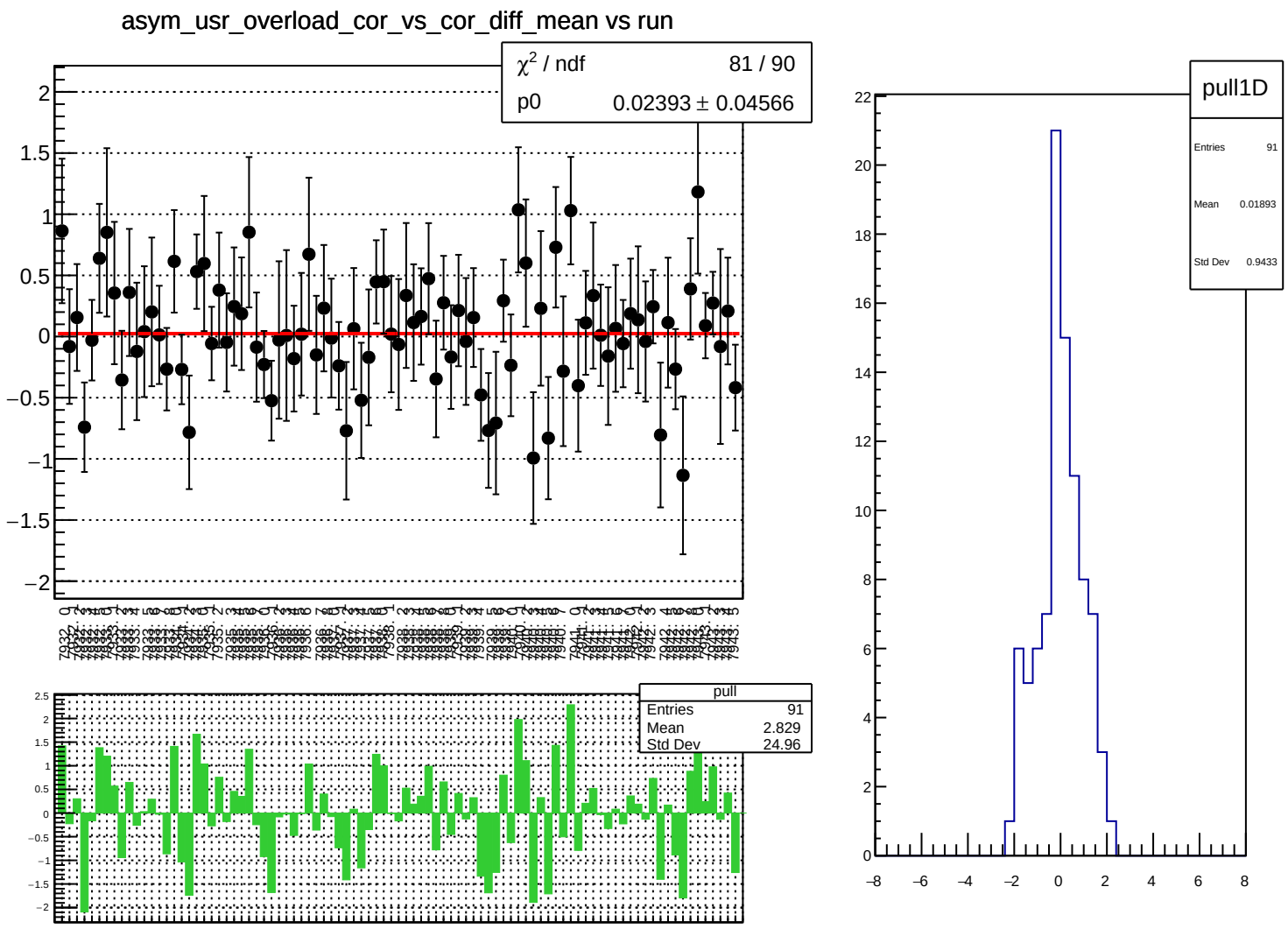

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.54 / 90
p0 −0.1023 ± 0.1184
pull
Entries 91
Mean 42.37
Std Dev 0
pull1D
Entries 91
Mean 0.03138
Std Dev 0.997

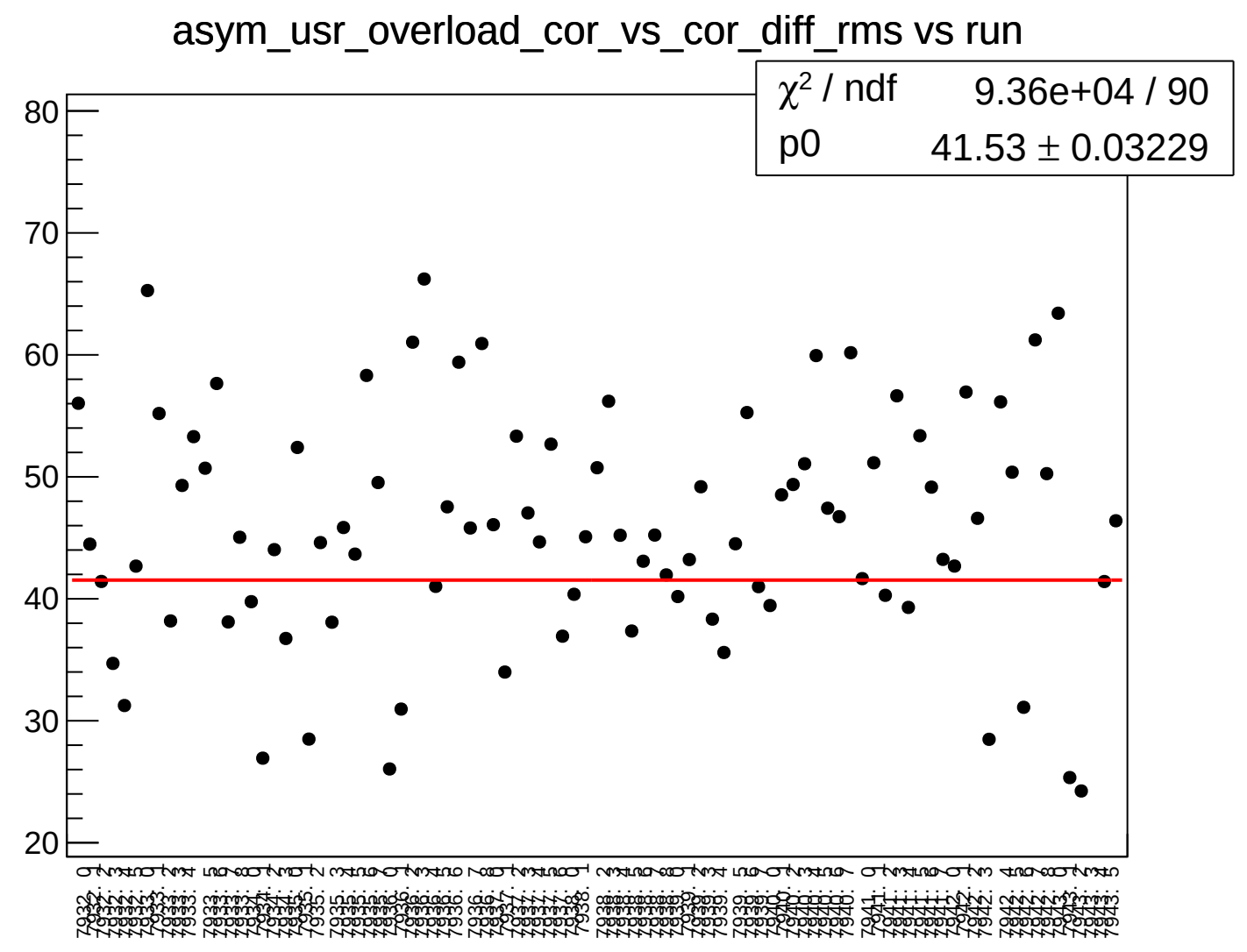

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.578e+04 / 90
p0 109.9 ± 0.08373
160
150
140
130
120
110
100
90
80

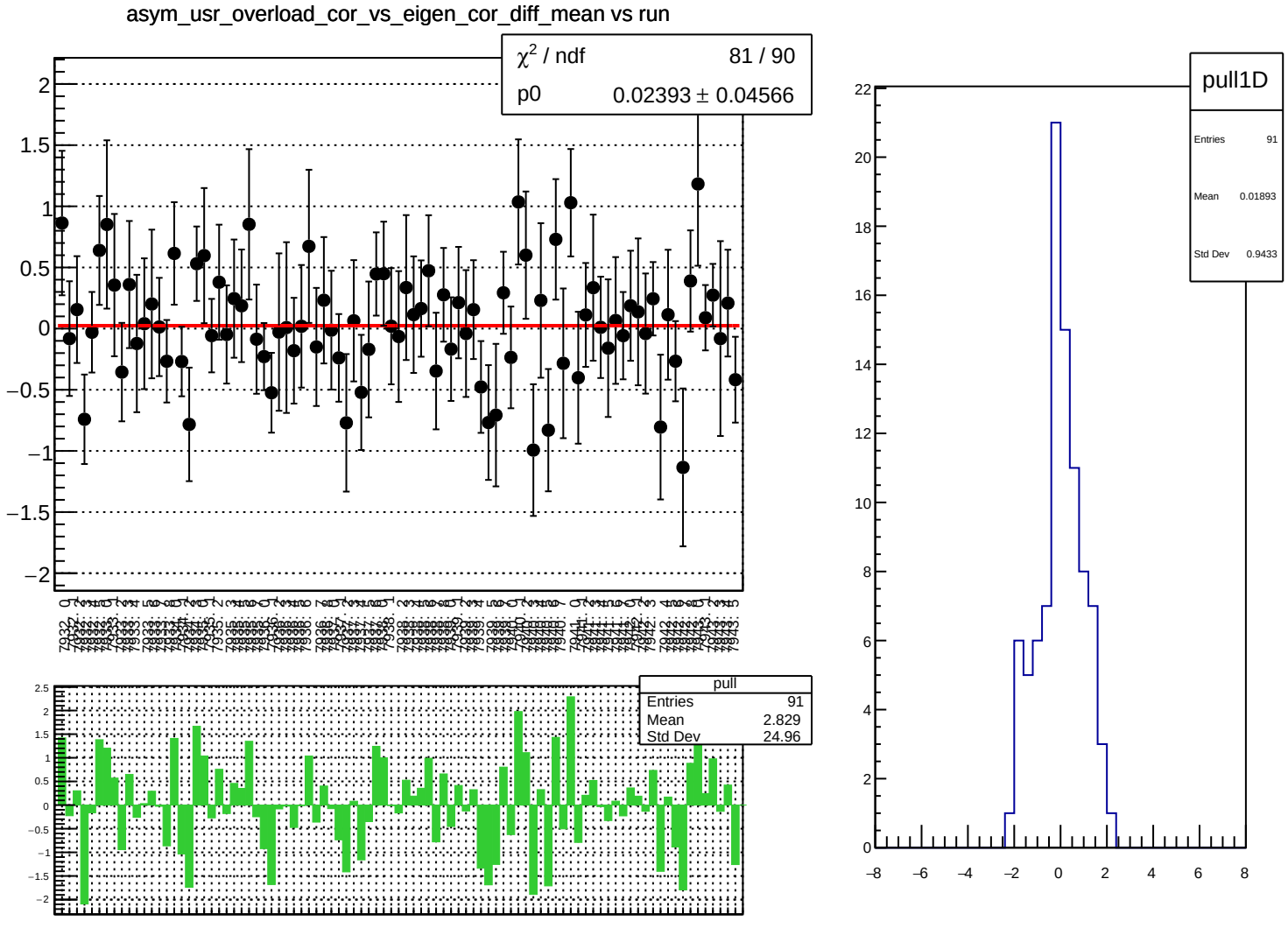

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.35 / 90
p0 −1.6e−13 ± 4.004e−13
pull
Entries 91
Mean 49.78
Std Dev 0

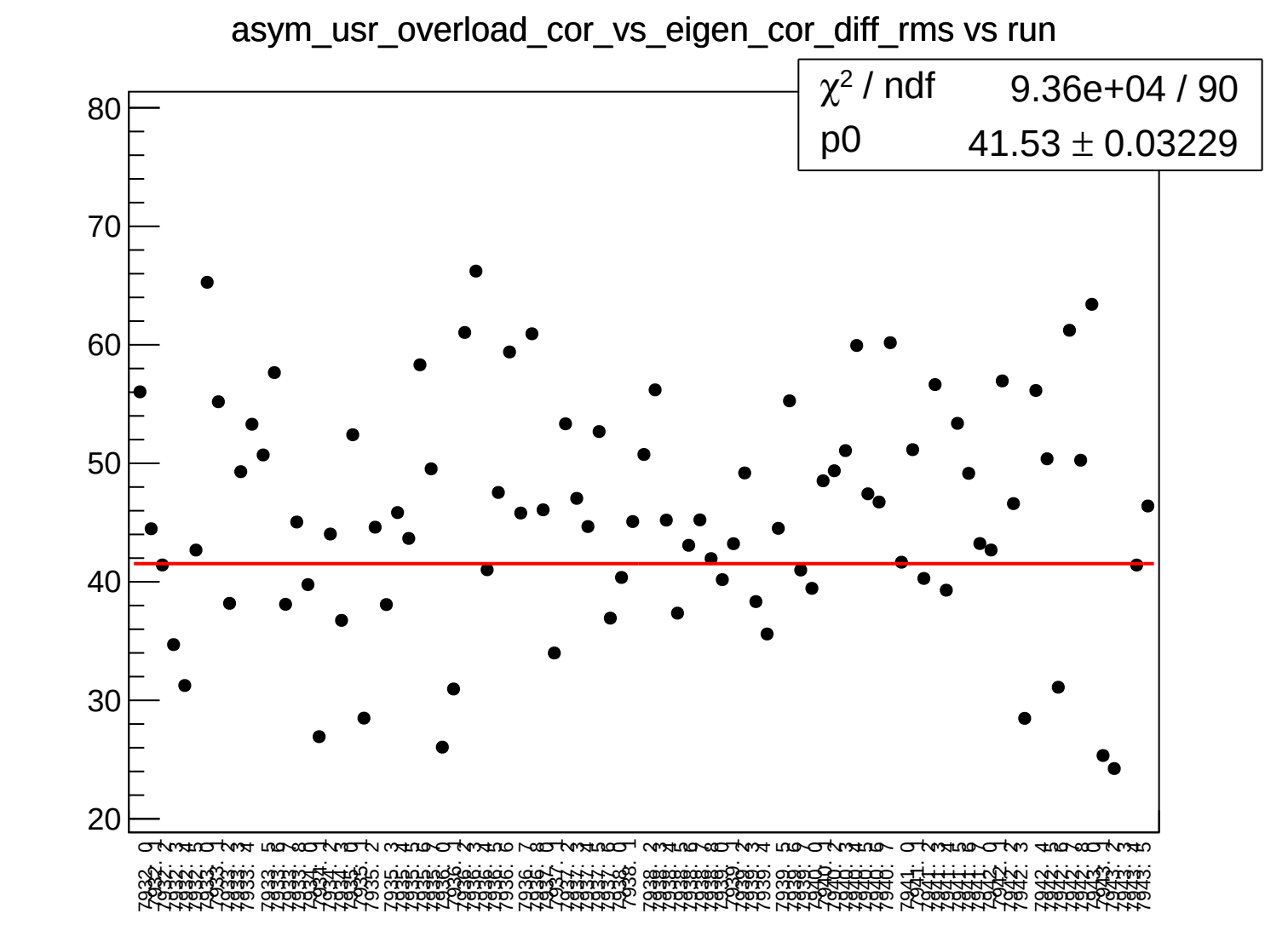

pull1D
Entries 91
Mean 0.03992
Std Dev 1.028

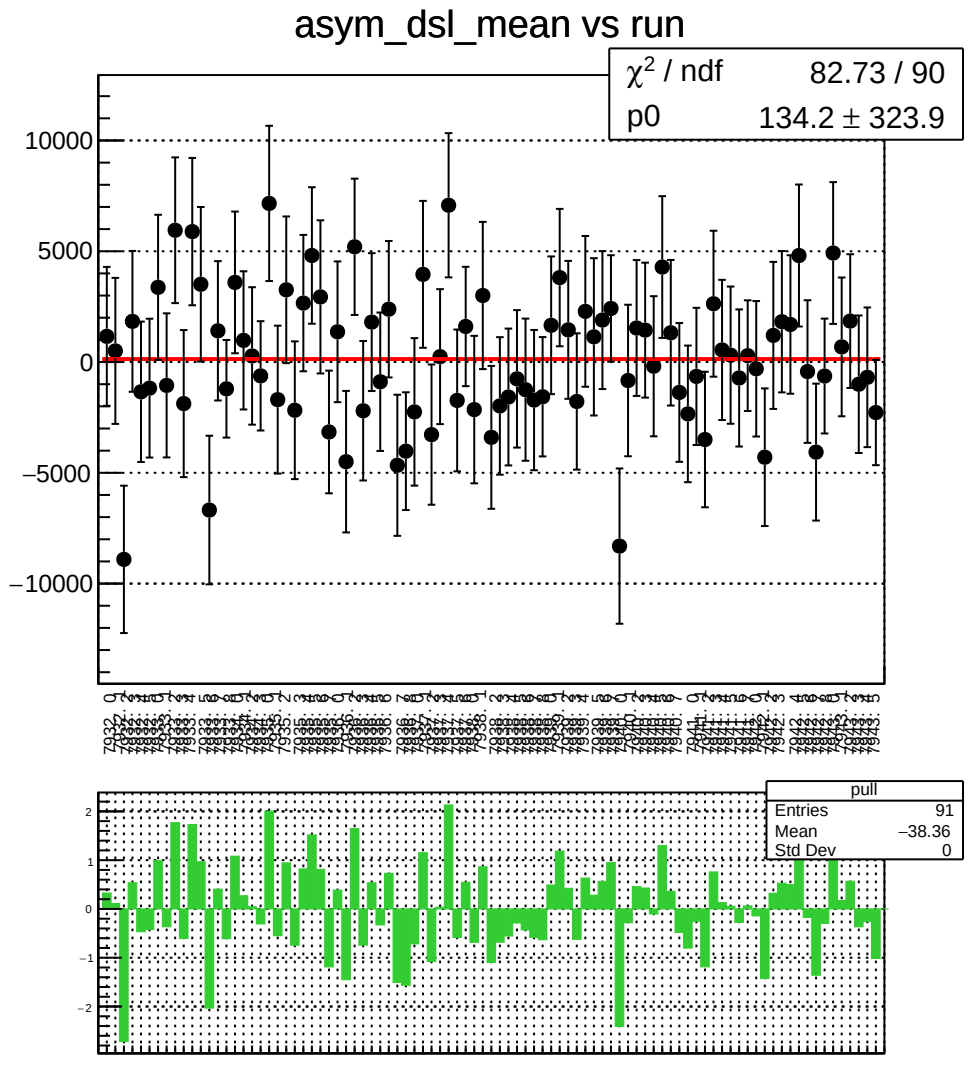

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.868e+05 / 90
p0 2.776e−10 ± 2.831e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

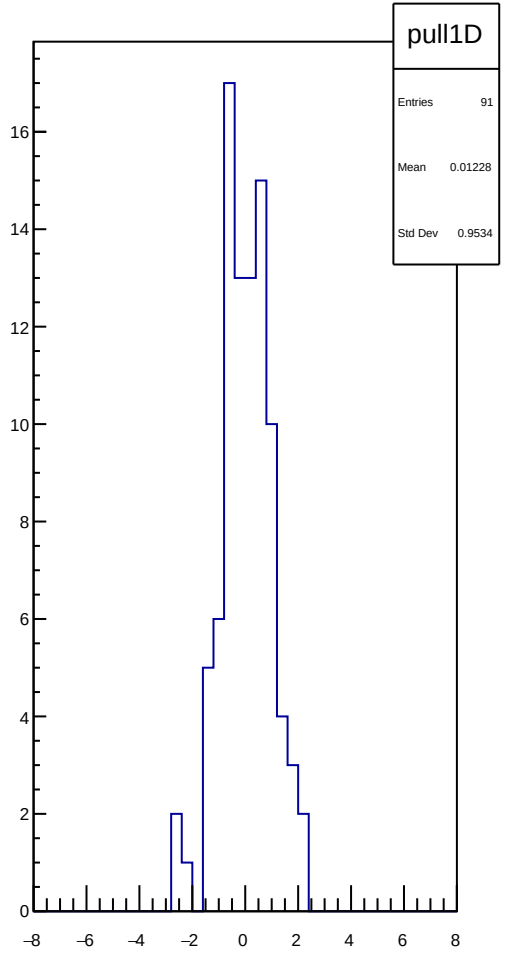

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 81 / 90
p0 0.02393 ± 0.04566
pull
Entries 91
Mean 2.829
Std Dev 24.96
pull1D
Entries 91
Mean 0.01893
Std Dev 0.9433

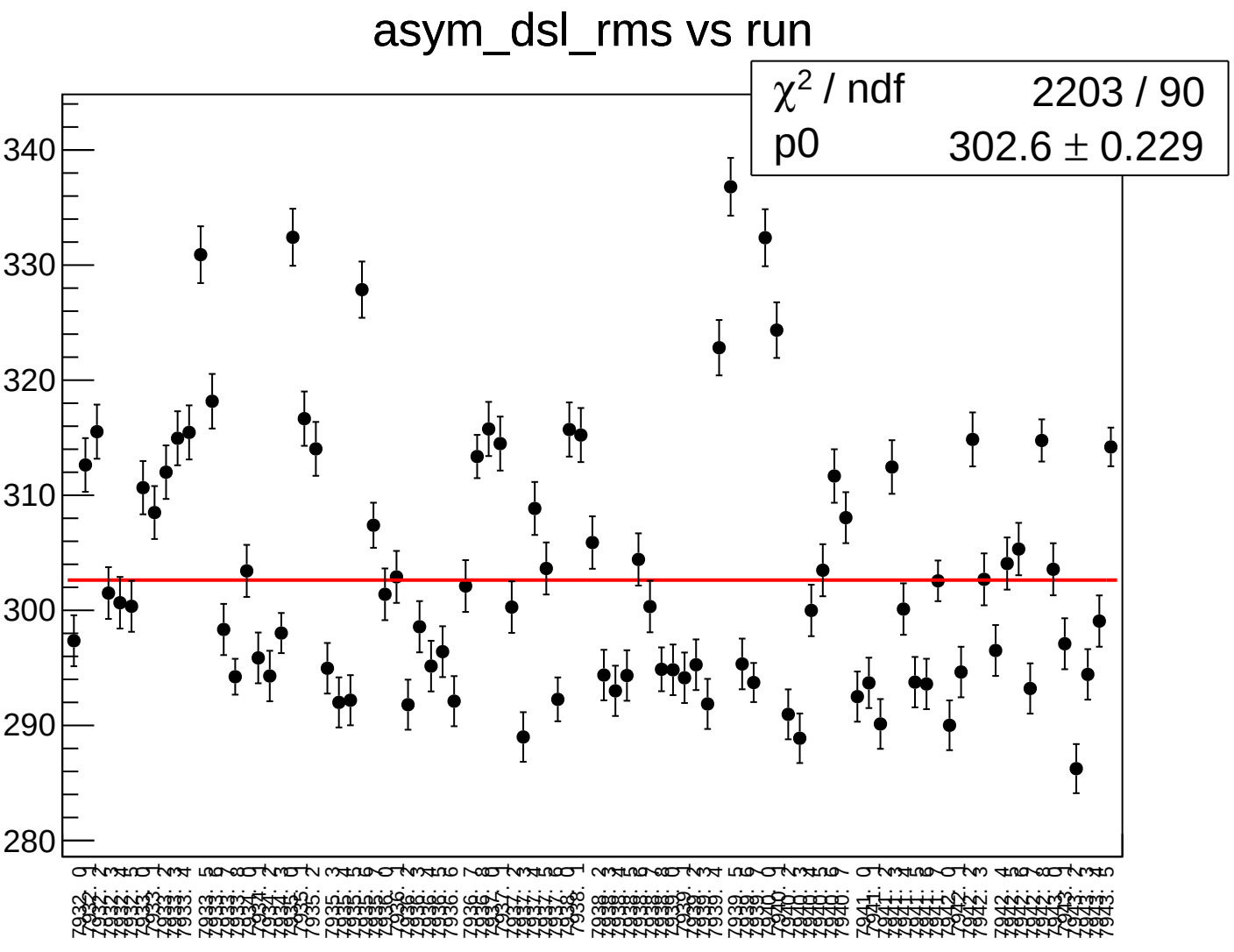

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.36e+04 / 90
p0 41.53 ± 0.03229
80
70
60
50
40
30
20

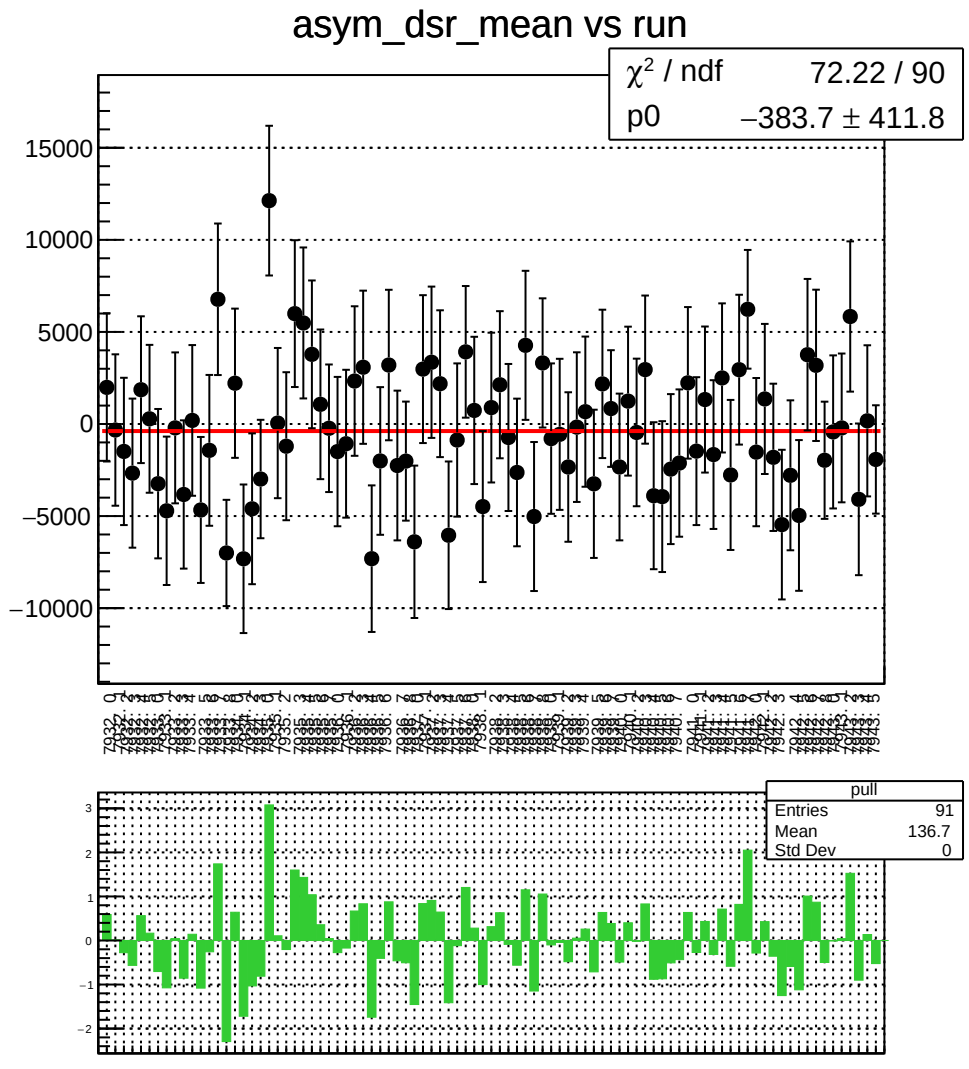

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 81 / 90
p0 0.02393 ± 0.04566
pull
Entries 91
Mean 2.829
Std Dev 24.96
pull1D
Entries 91
Mean 0.01893
Std Dev 0.9433

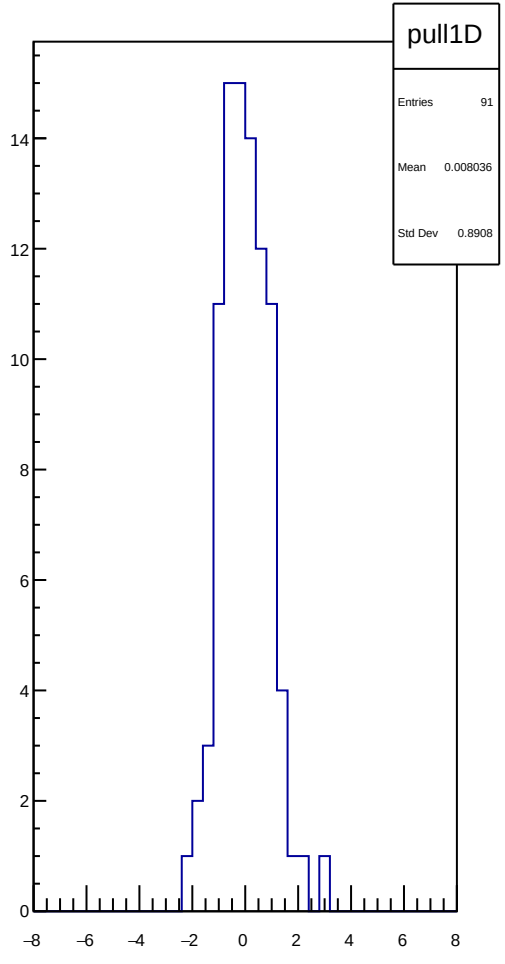

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.36e+04 / 90
p0 41.53 ± 0.03229
80
70
60
50
40
30
20

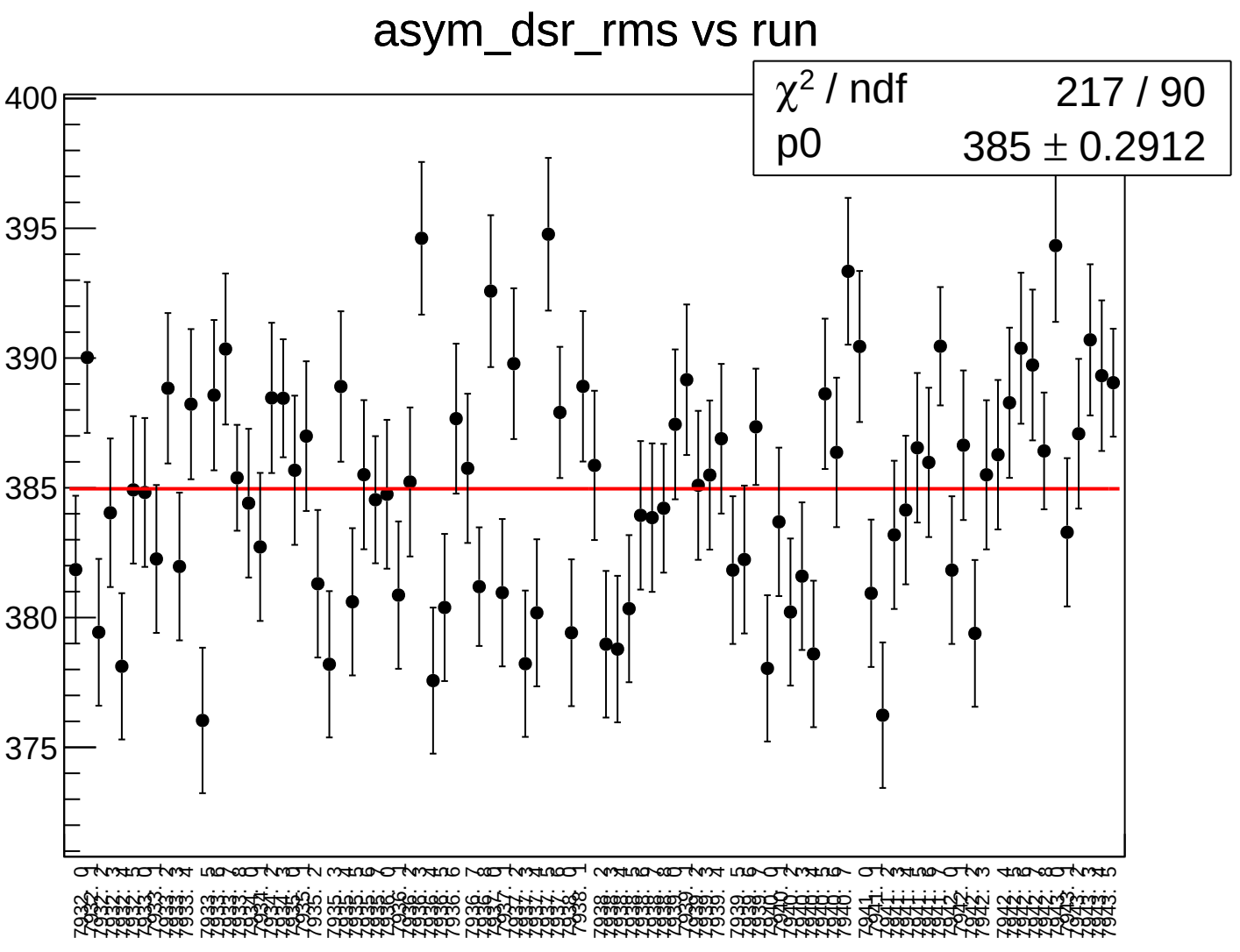

asym_dsl_mean vs run
χ^2 / ndf 82.73 / 90
p0 134.2 ± 323.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −38.36
Std Dev 0
2
1
0
−1
−2

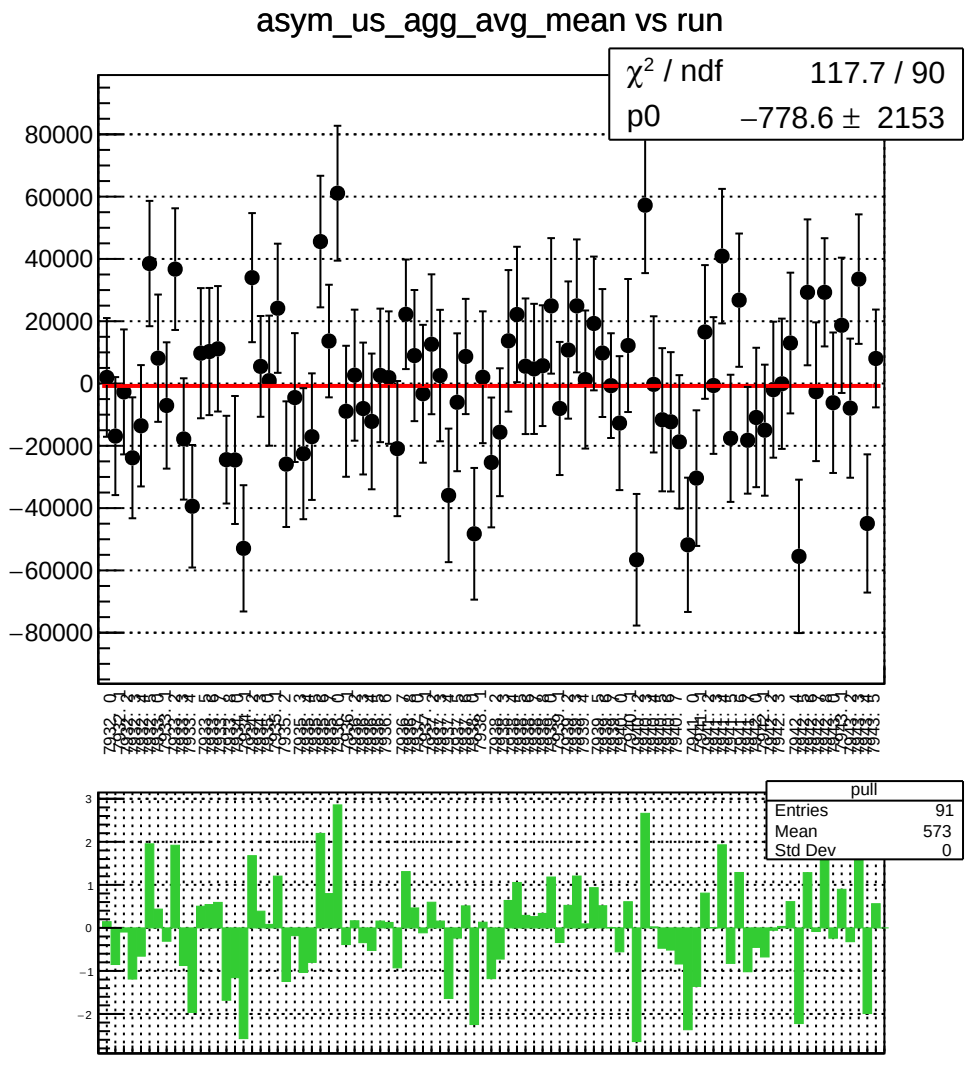

pull1D
Entries 91
Mean 0.01228
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

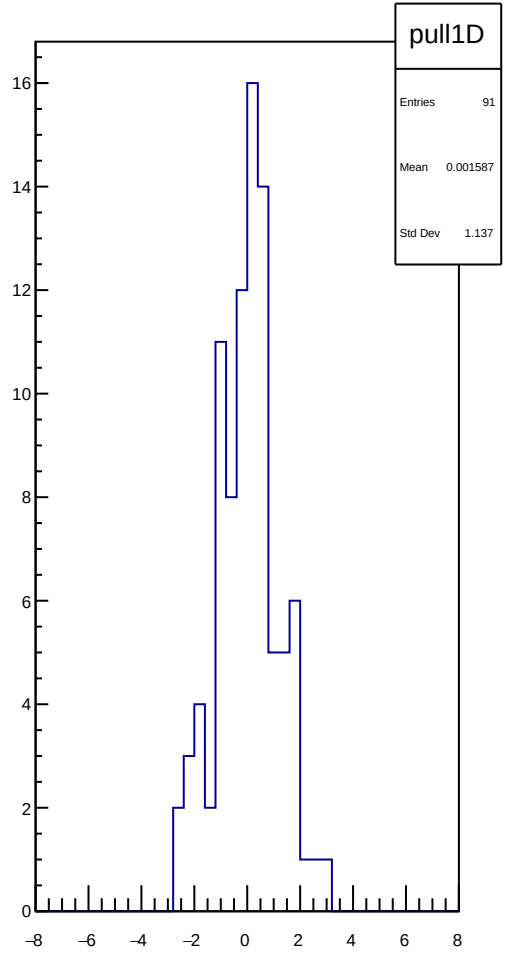

asym_dsl_rms vs run
χ² / ndf 2203 / 90
p0 302.6 ± 0.229
340
330
320
310
300
290
280

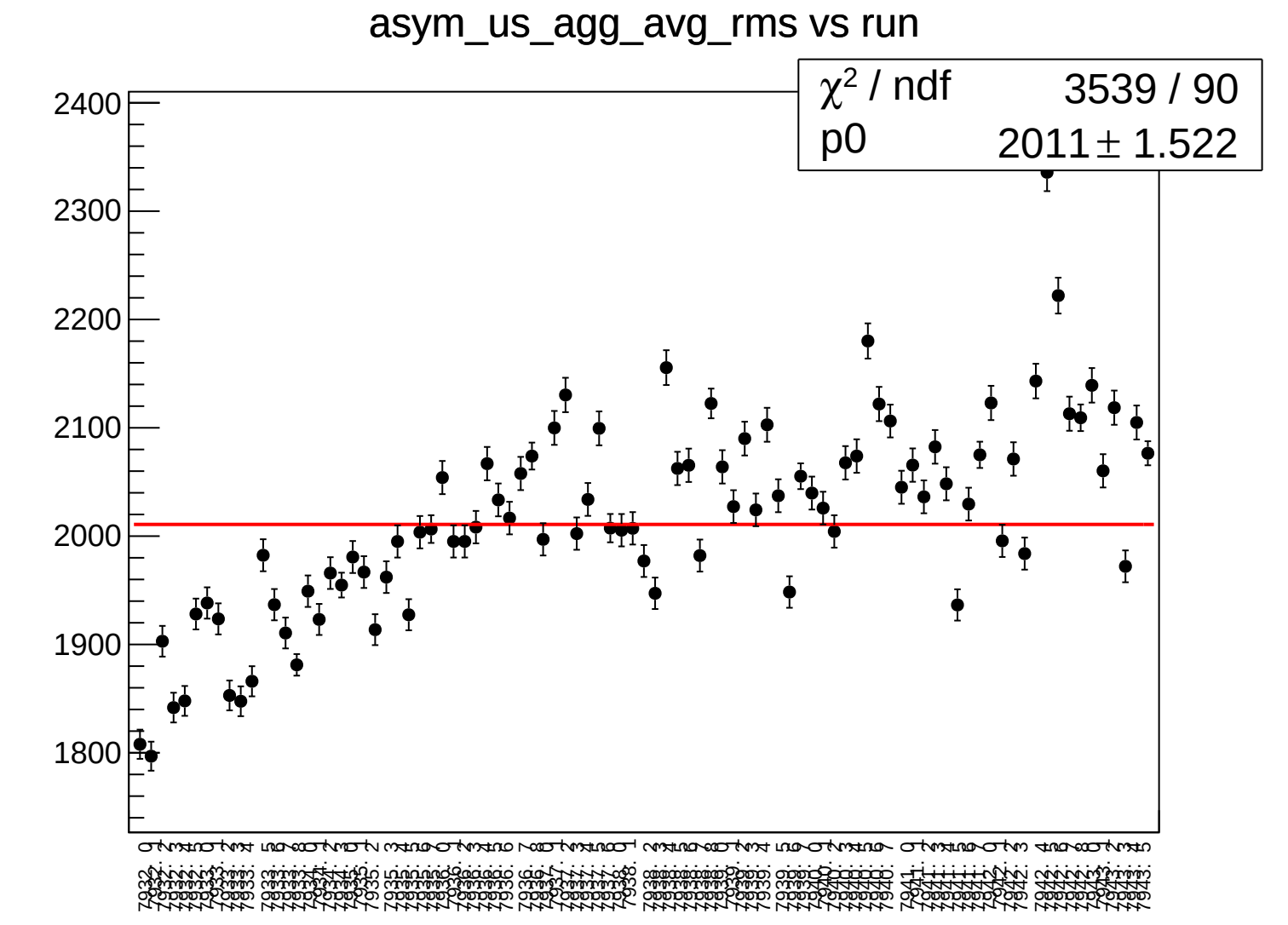

asym_dsr_mean vs run
χ² / ndf 72.22 / 90
p0 −383.7 ± 411.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 136.7
Std Dev 0
3
2
1
0
−1
−2

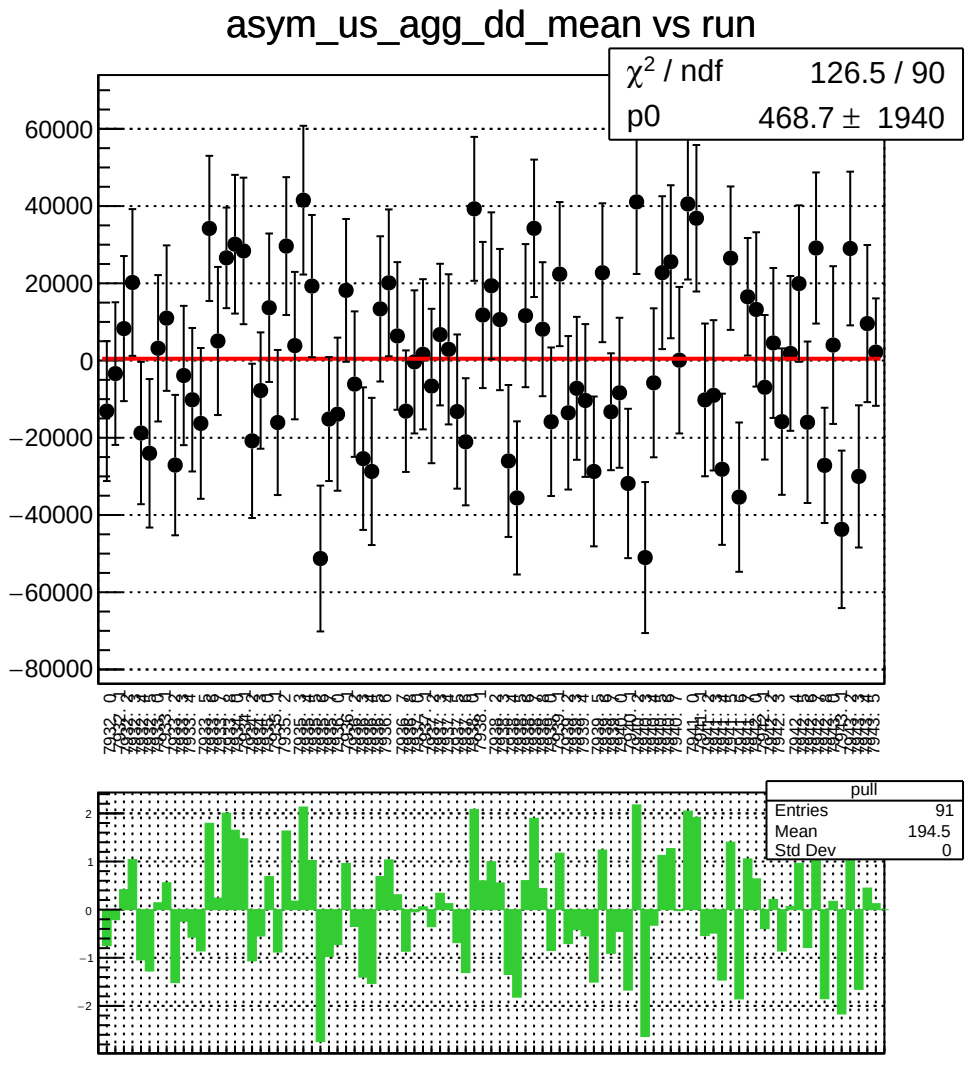

pull1D
Entries 91
Mean 0.008036
Std Dev 0.8908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

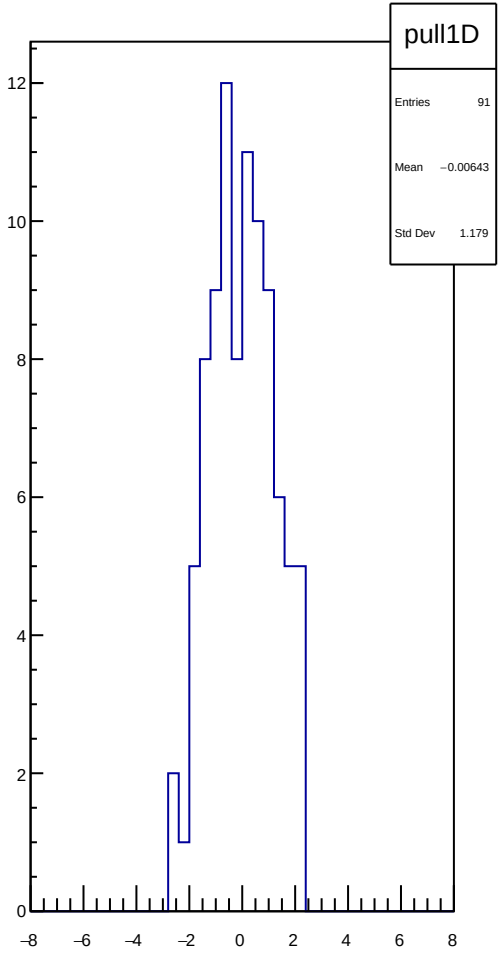

asym_dsr_rms vs run
χ² / ndf 217 / 90
p0 385 ± 0.2912
400
395
390
385
380
375

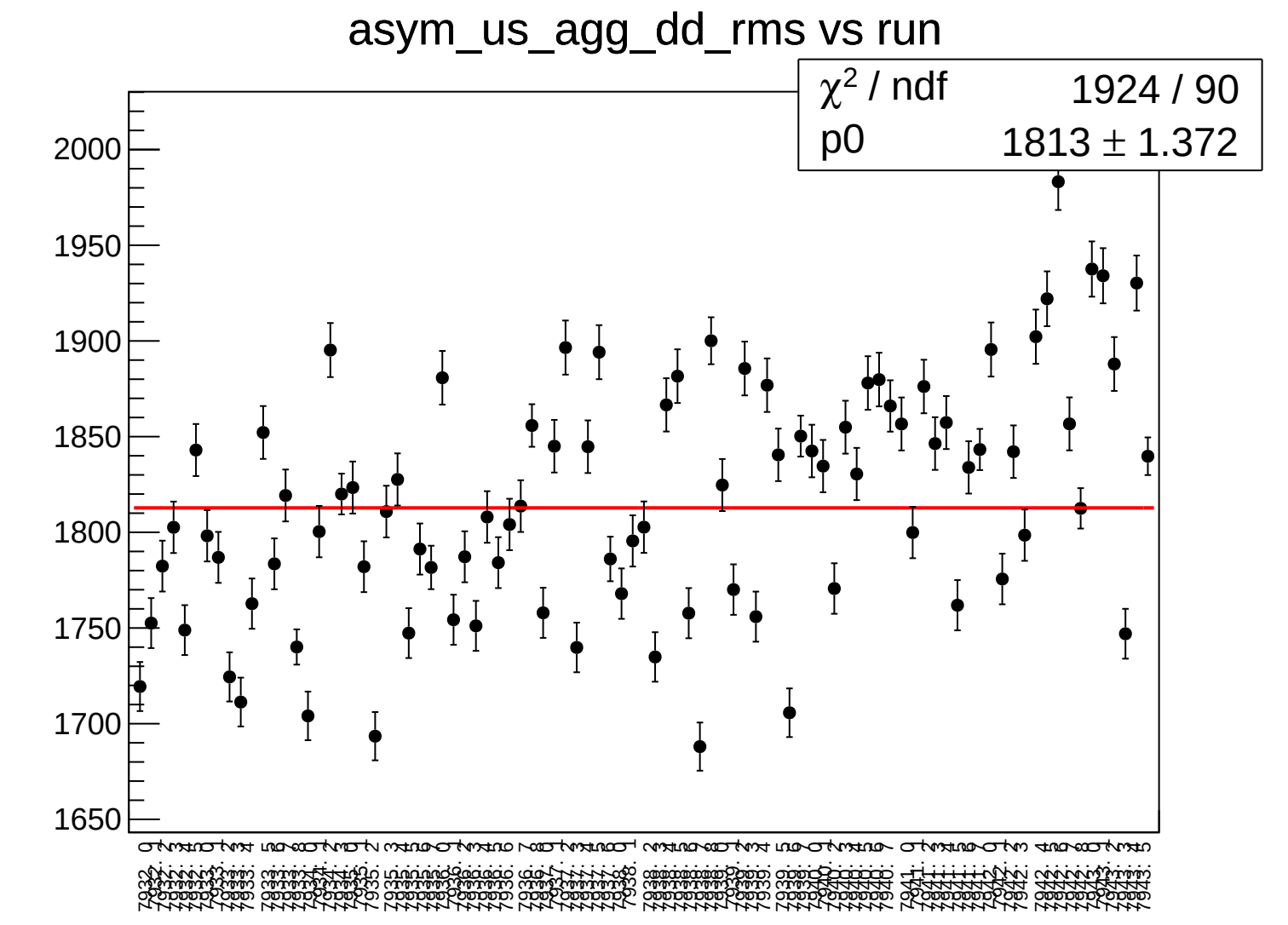

asym_us_agg_avg_mean vs run
χ² / ndf 117.7 / 90
p0 −778.6 ± 2153
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 573
Std Dev 0
3
2
1
0
−1
−2

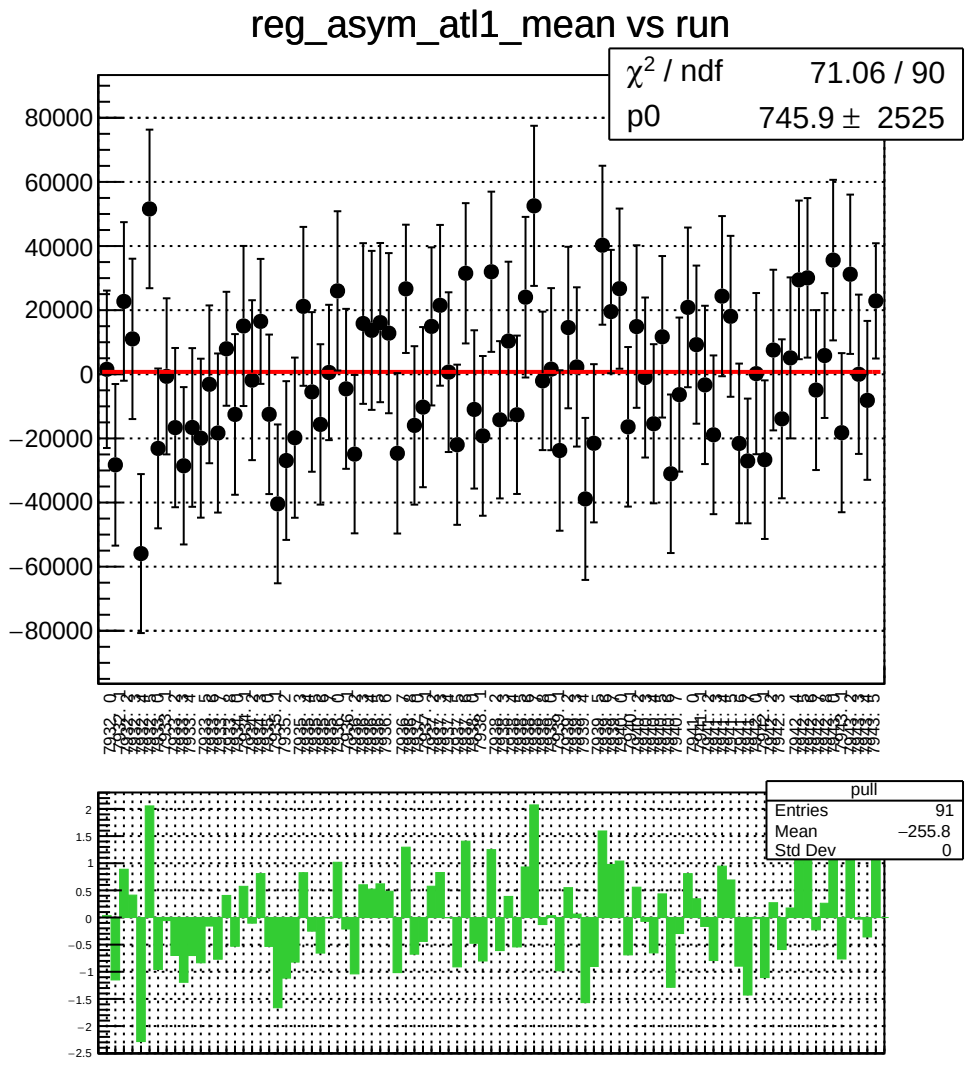

pull1D
Entries 91
Mean 0.001587
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

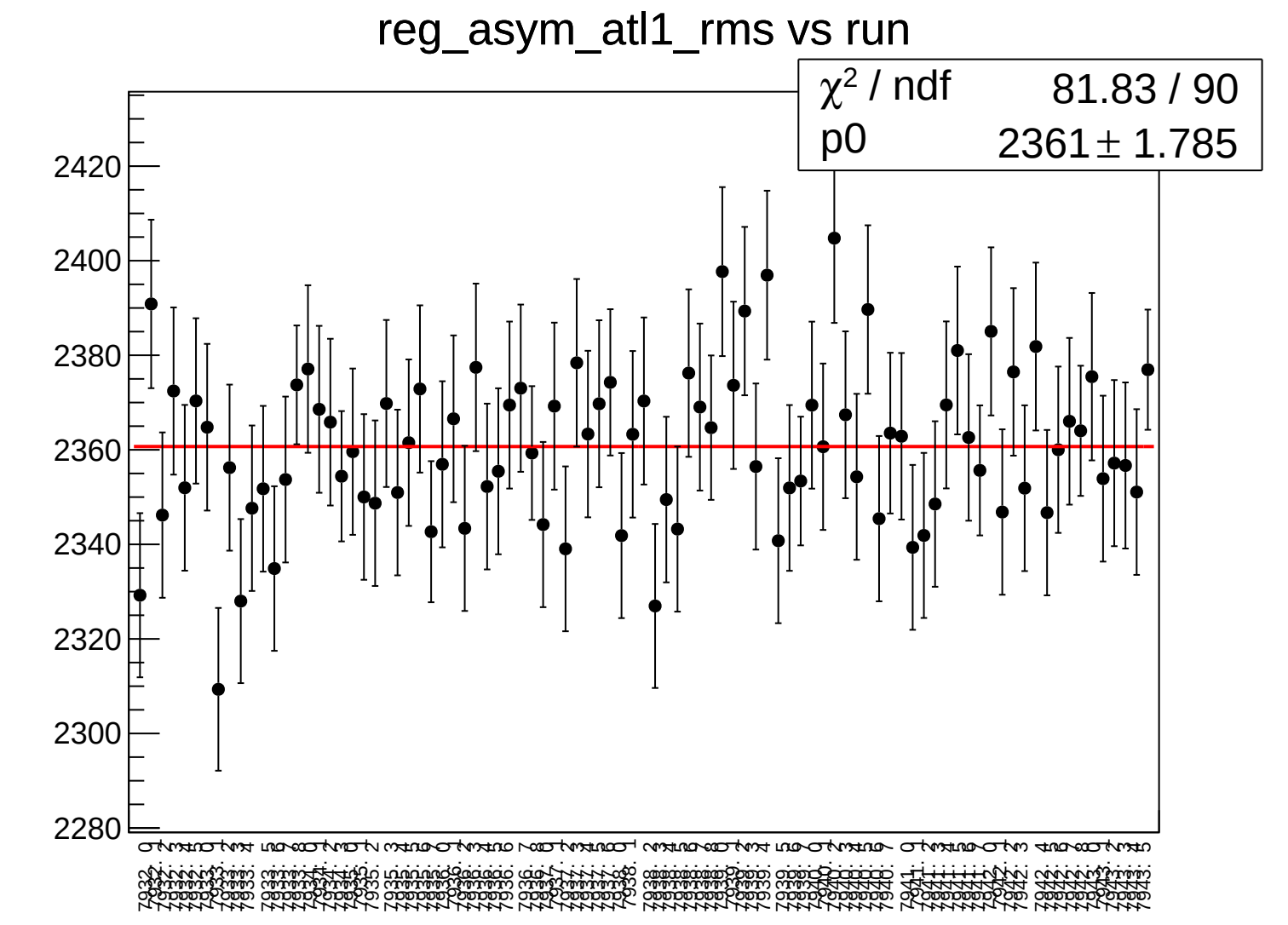

asym_us_agg_avg_rms vs run
χ² / ndf 3539 / 90
p0 2011 ± 1.522
2400
2300
2200
2100
2000
1900
1800

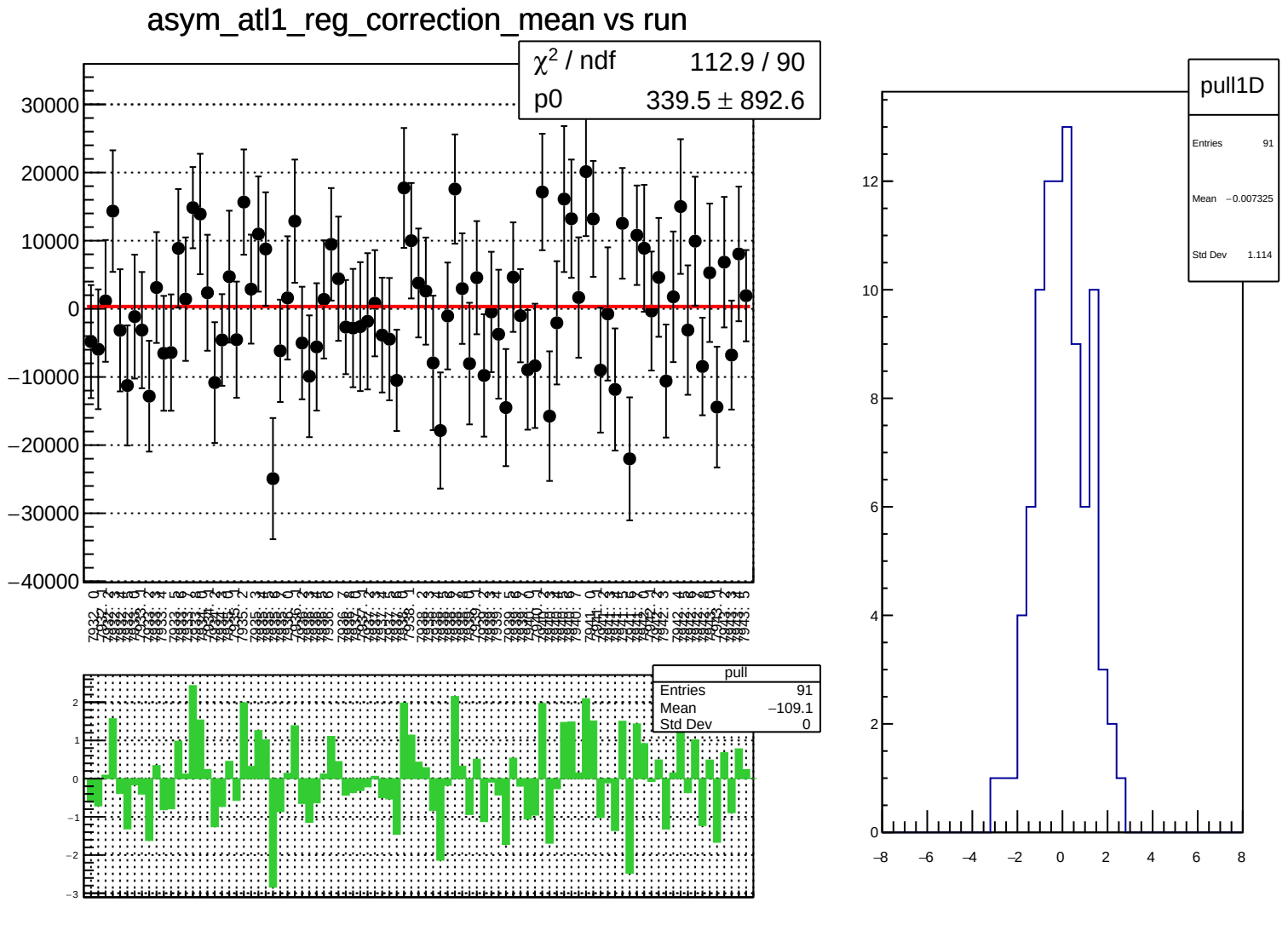

asym_us_agg_dd_mean vs run
χ² / ndf 126.5 / 90
p0 468.7 ± 1940
pull
Entries 91
Mean 194.5
Std Dev 0

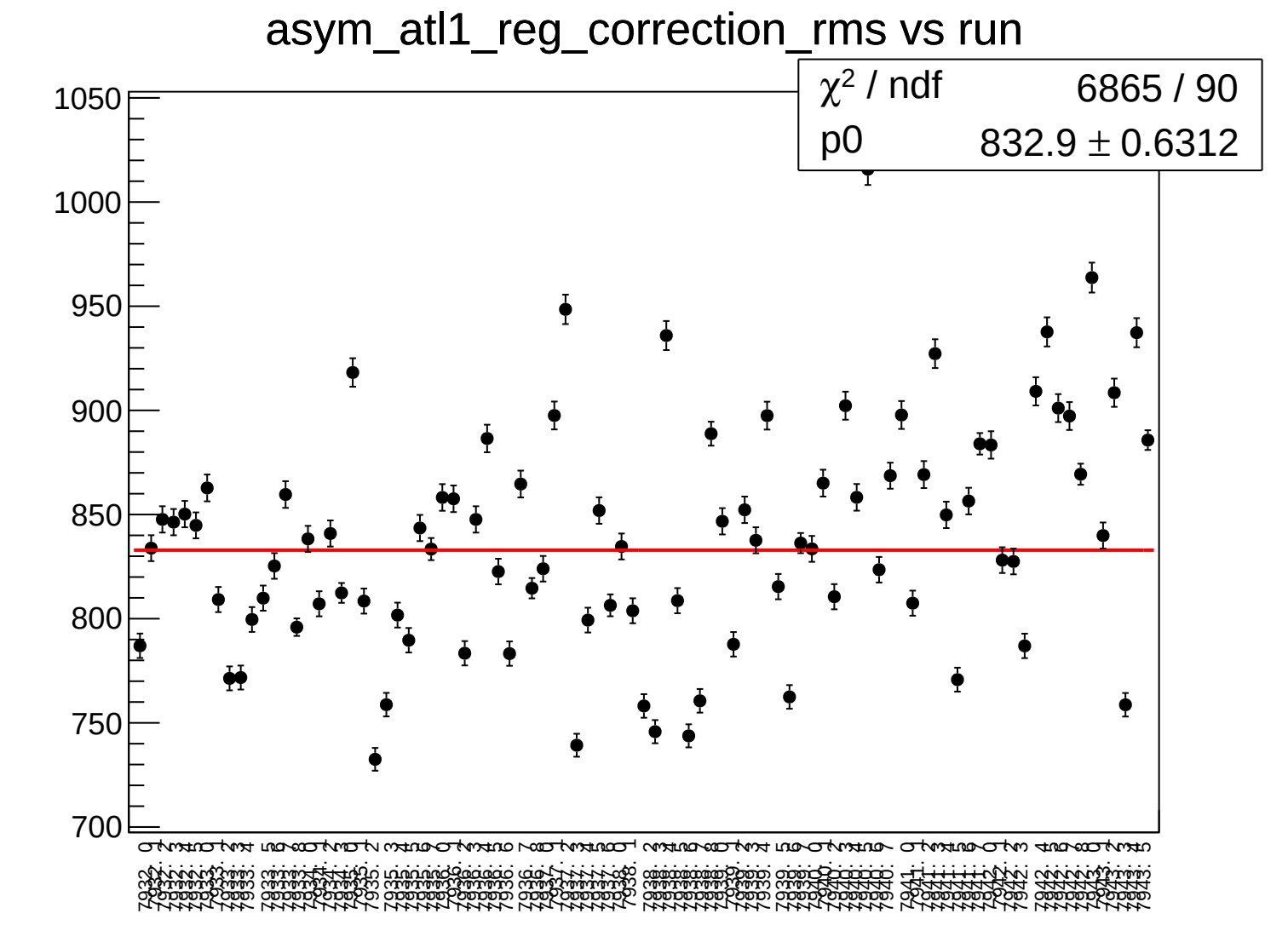

pull1D
Entries 91
Mean −0.00643
Std Dev 1.179

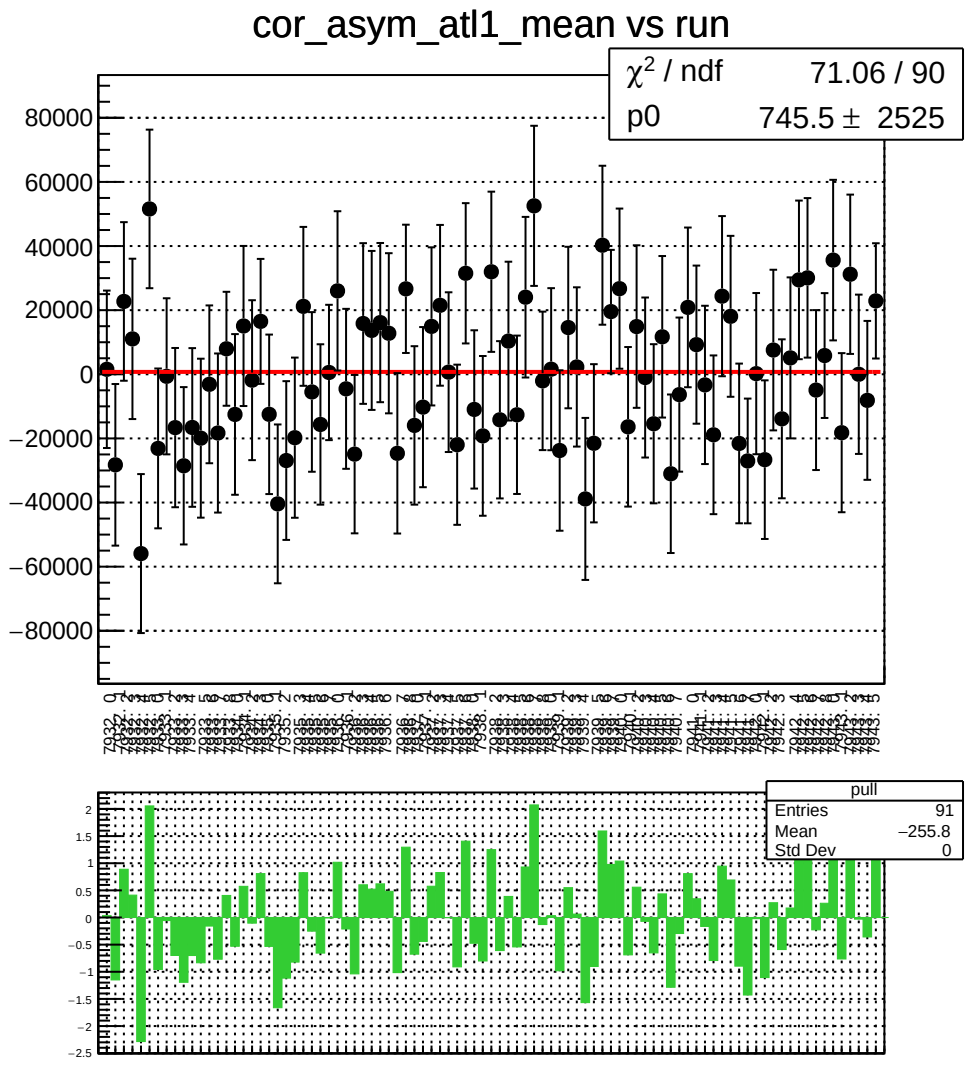

asym_us_agg_dd_rms vs run
χ² / ndf 1924 / 90
p0 1813 ± 1.372
2000
1950
1900
1850
1800
1750
1700
1650

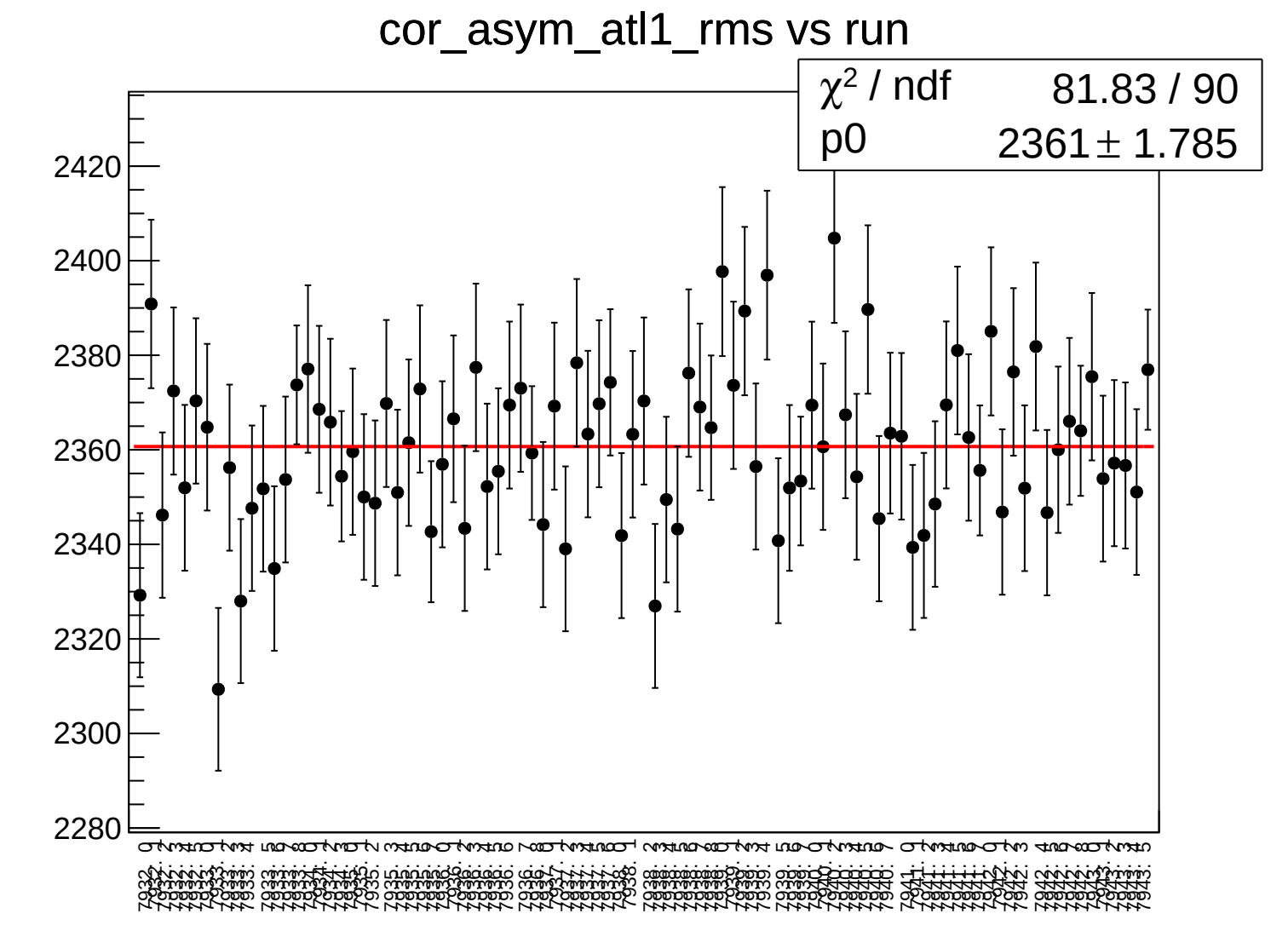

reg_asym_atl1_mean vs run
χ² / ndf 71.06 / 90
p0 745.9 ± 2525
pull
Entries 91
Mean −255.8
Std Dev 0
pull1D
Entries 91
Mean −0.01339
Std Dev 0.8836

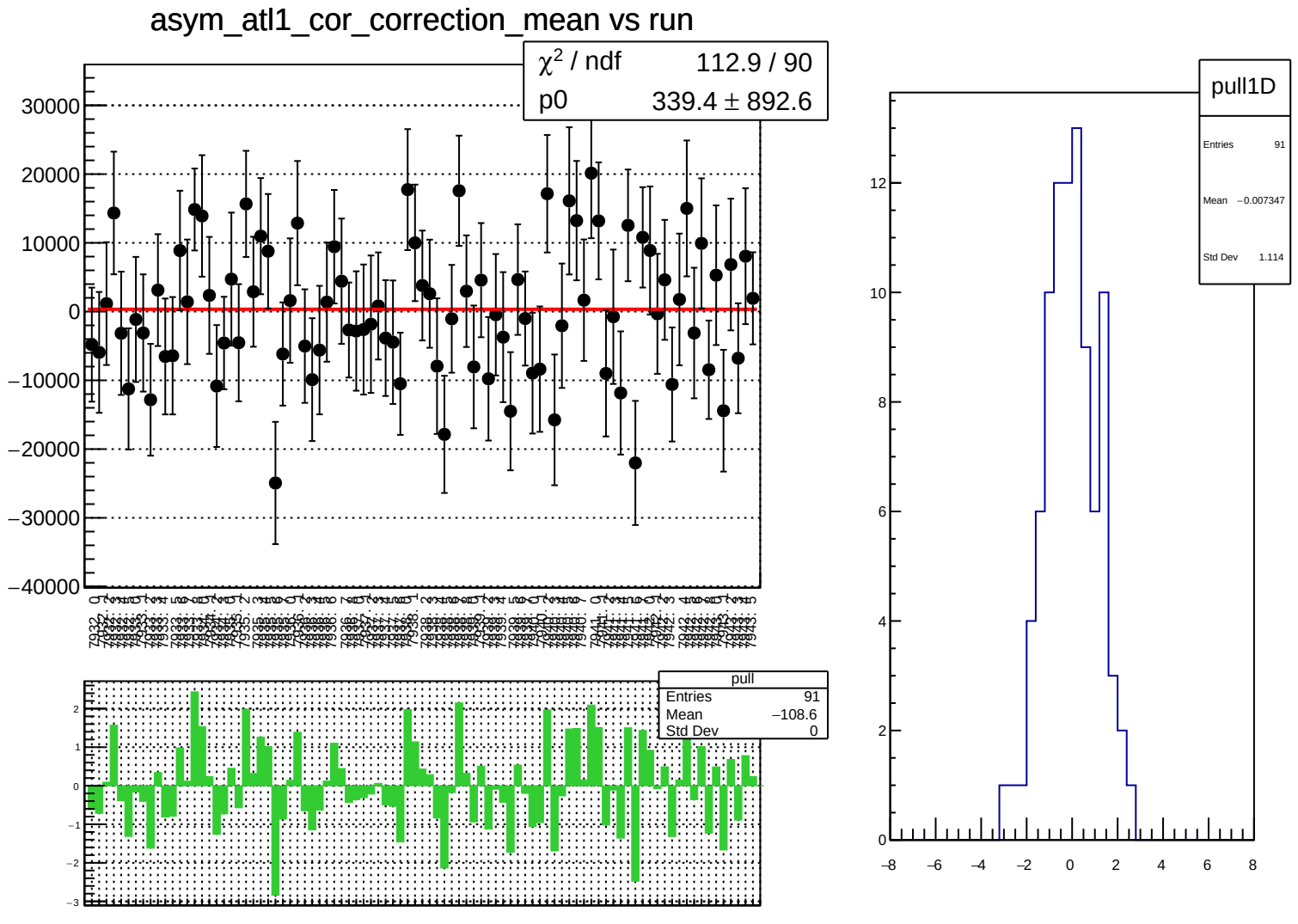

reg_asym_atl1_rms vs run
χ² / ndf 81.83 / 90
p0 2361 ± 1.785
2420
2400
2380
2360
2340
2320
2300
2280

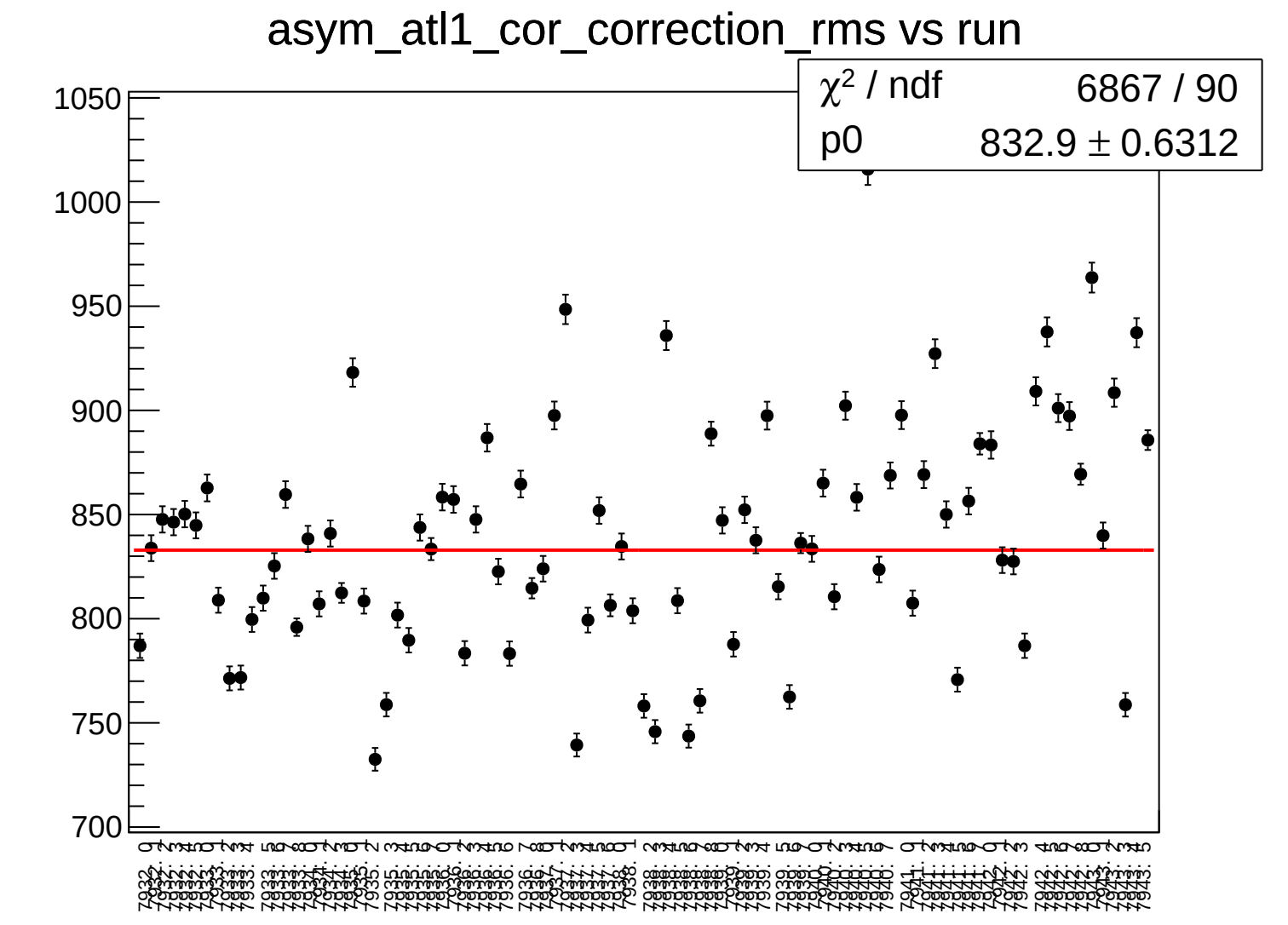

asym_atl1_reg_correction_mean vs run
χ² / ndf 112.9 / 90
p0 339.5 ± 892.6
pull
Entries 91
Mean −109.1
Std Dev 0
pull1D
Entries 91
Mean −0.007325
Std Dev 1.114

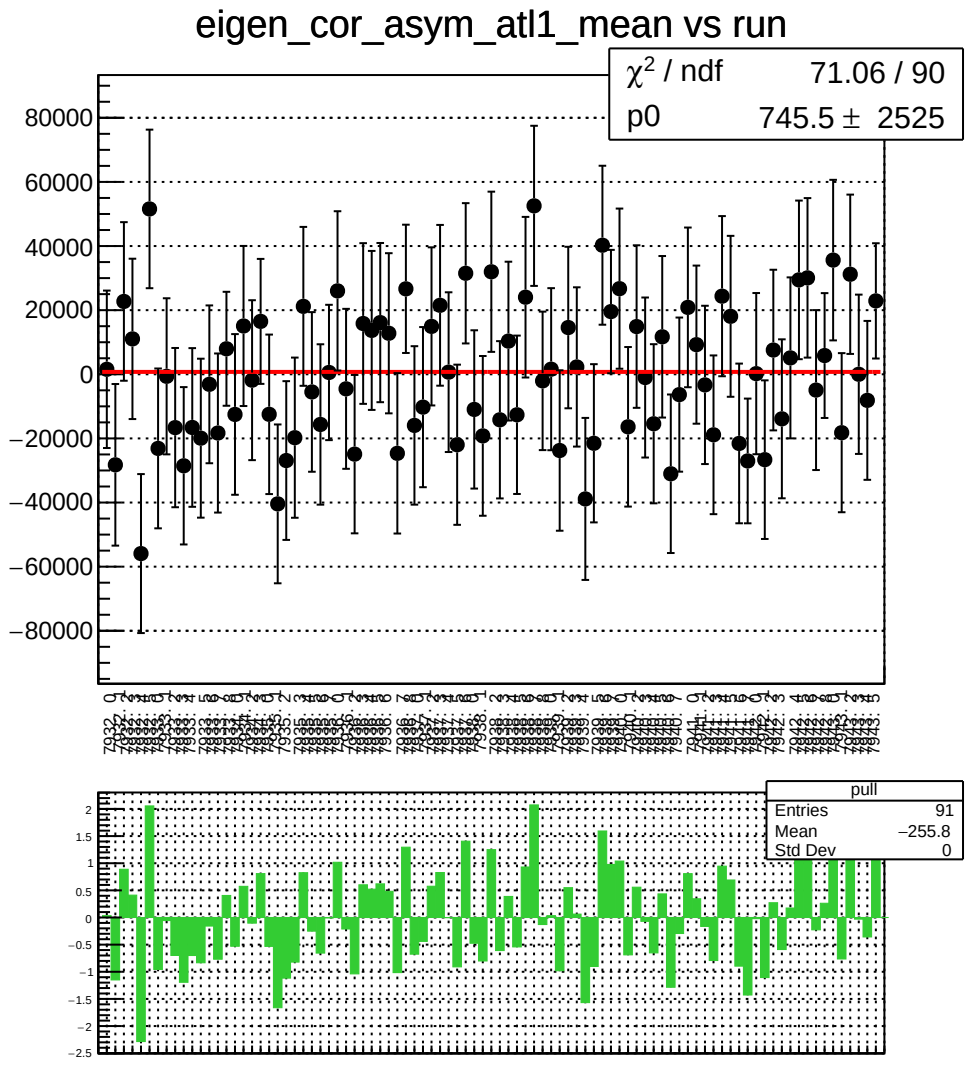

asym_atl1_reg_correction_rms vs run
χ² / ndf 6865 / 90
p0 832.9 ± 0.6312
1050
1000
950
900
850
800
750
700

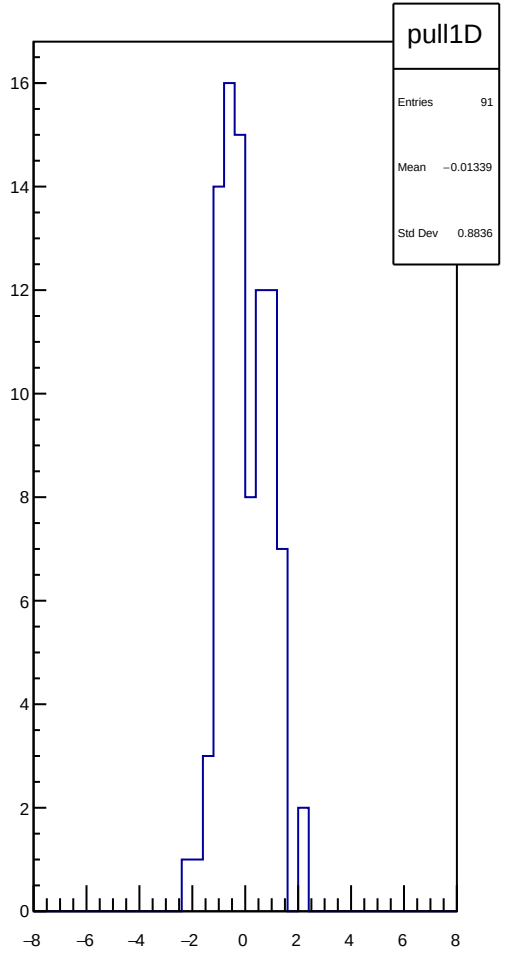

cor_asym_atl1_mean vs run
χ² / ndf 71.06 / 90
p0 745.5 ± 2525
pull
Entries 91
Mean −255.8
Std Dev 0
pull1D
Entries 91
Mean −0.01339
Std Dev 0.8836

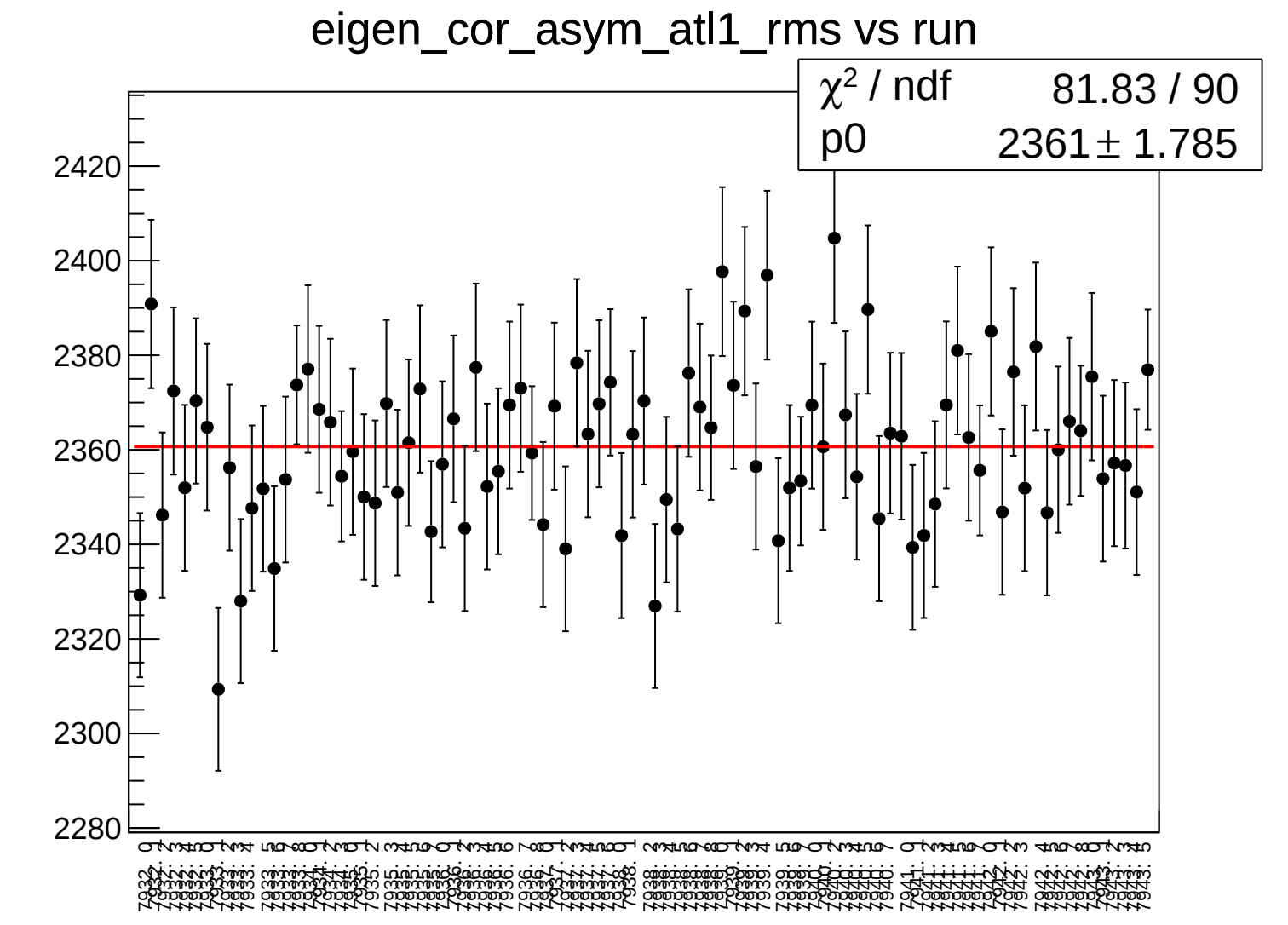

cor_asym_atl1_rms vs run
χ^2 / ndf 81.83 / 90
p0 2361 ± 1.785
2420
2400
2380
2360
2340
2320
2300
2280

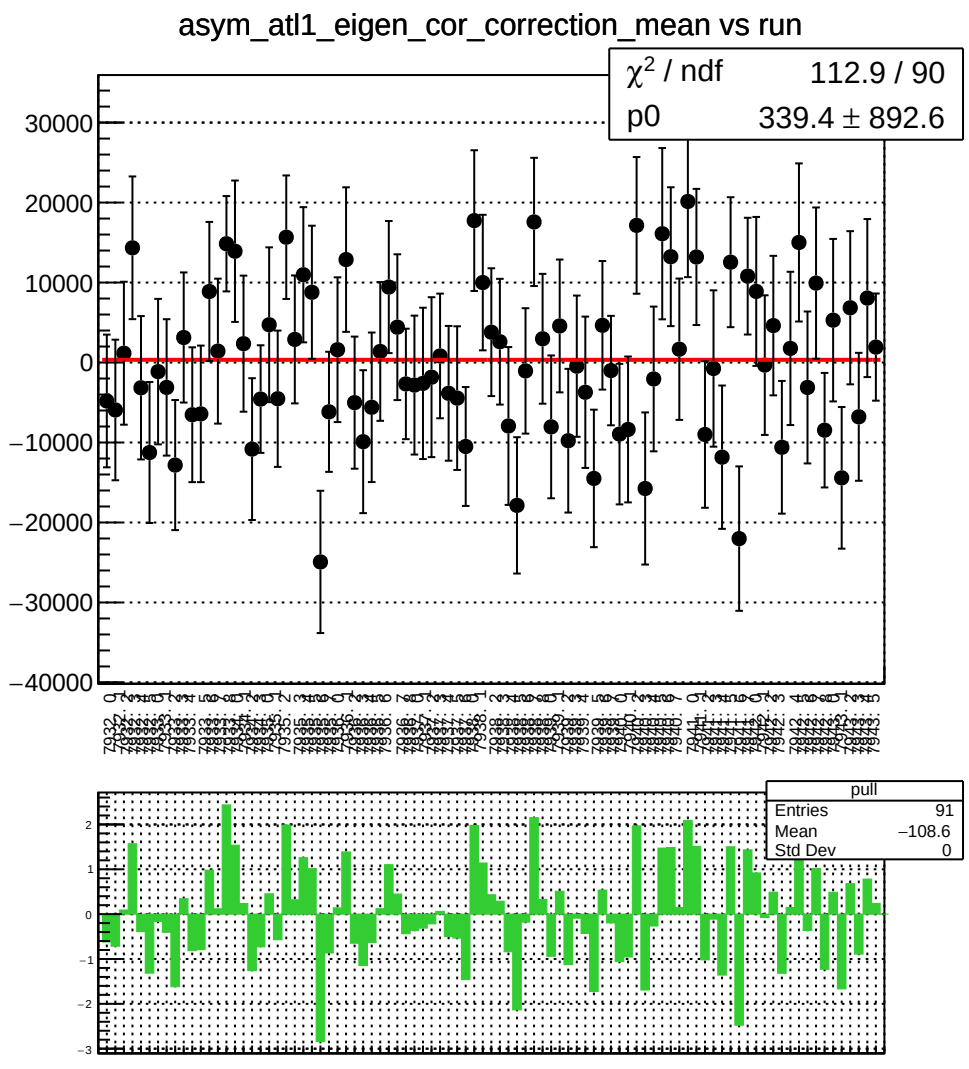

asym_atl1_cor_correction_mean vs run
χ² / ndf 112.9 / 90
p0 339.4 ± 892.6
pull
Entries 91
Mean −108.6
Std Dev 0
pull1D
Entries 91
Mean −0.007347
Std Dev 1.114

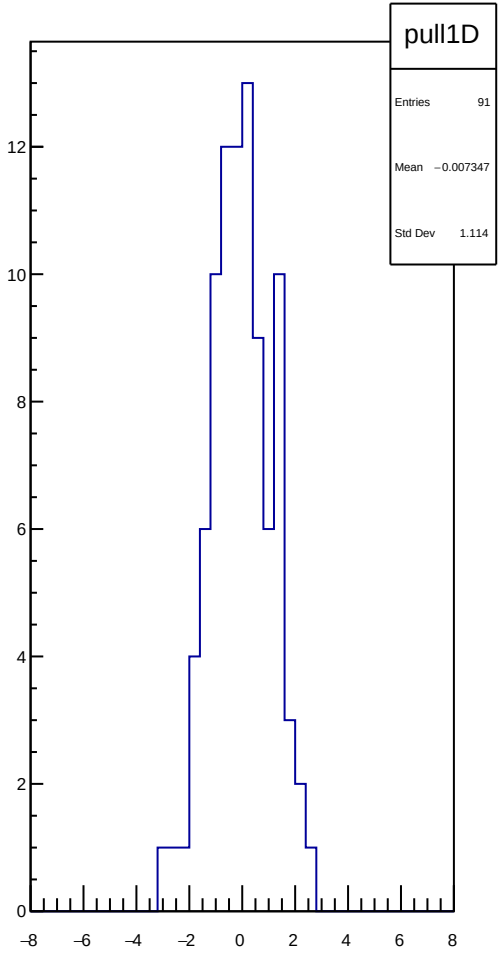

asym_atl1_cor_correction_rms vs run
χ² / ndf 6867 / 90
p0 832.9 ± 0.6312
1050
1000
950
900
850
800
750
700

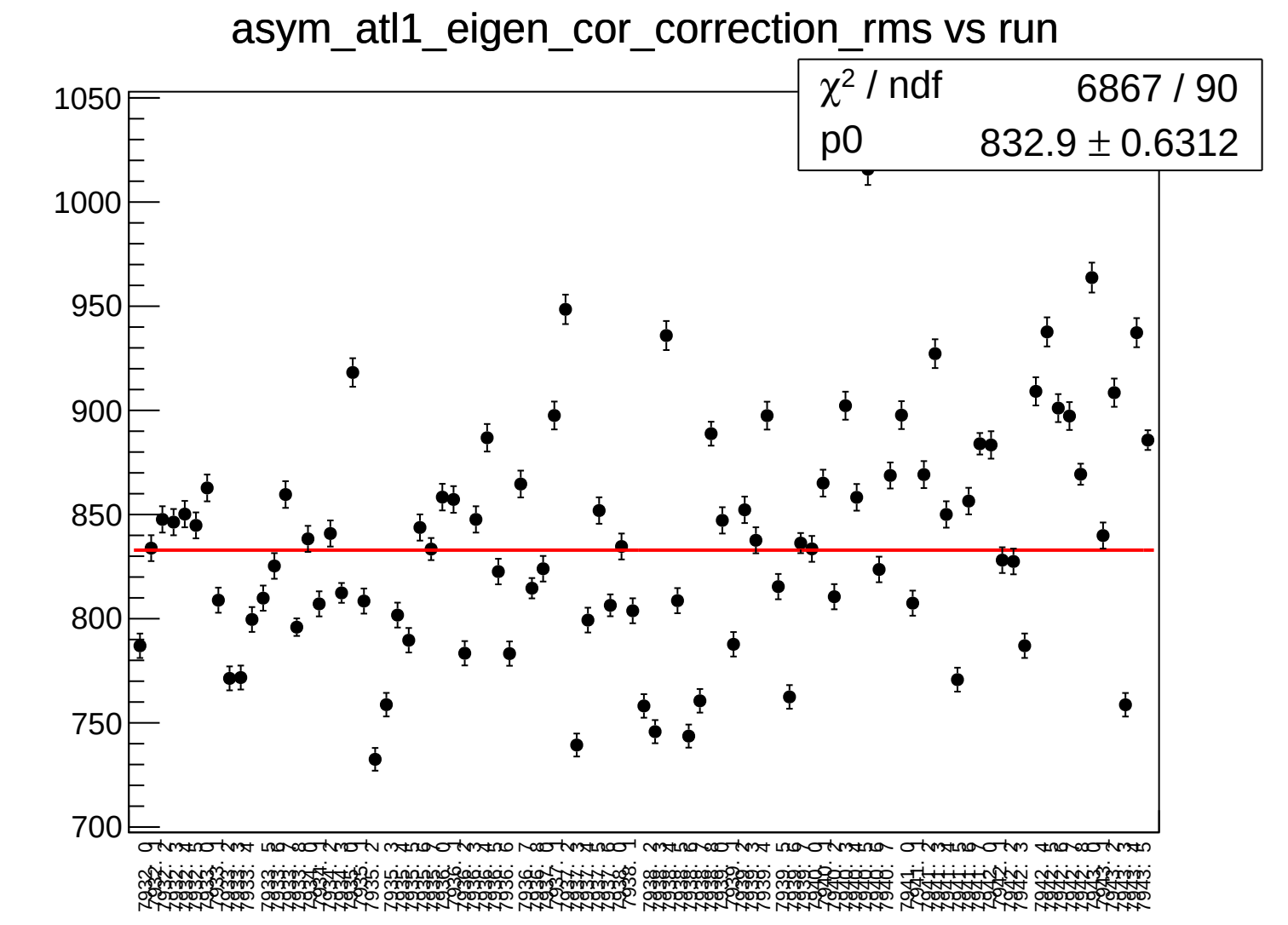

eigen_cor_asym_atl1_mean vs run
χ² / ndf 71.06 / 90
p0 745.5 ± 2525
pull
Entries 91
Mean −255.8
Std Dev 0

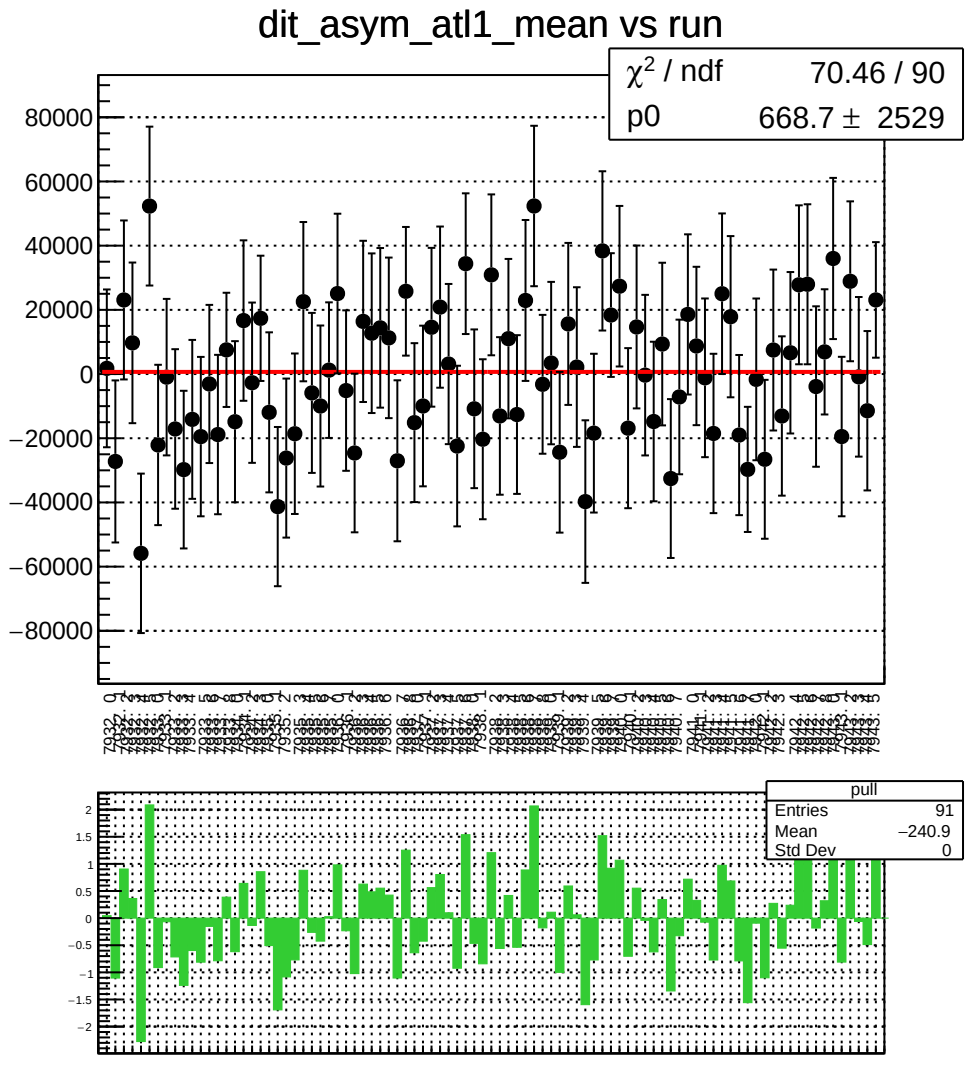

pull1D
Entries 91
Mean −0.01339
Std Dev 0.8836

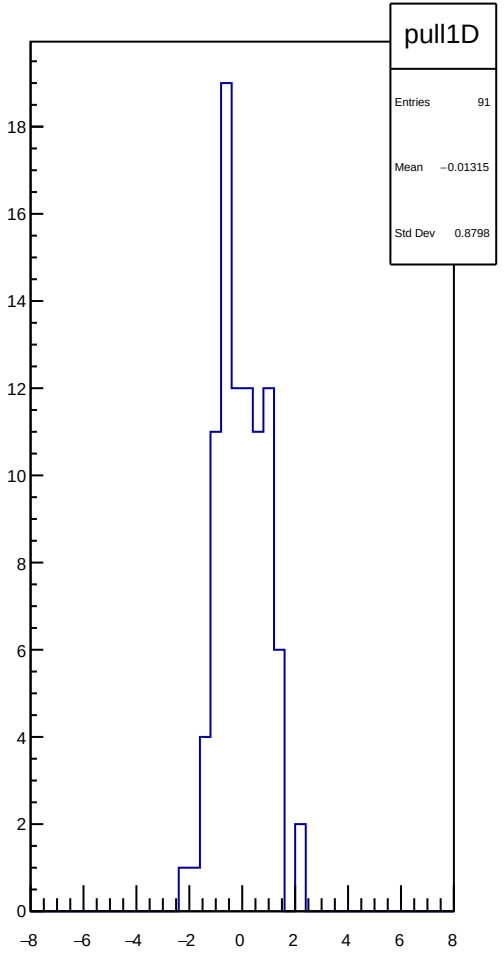

eigen_cor_asym_atl1_rms vs run
χ² / ndf 81.83 / 90
p0 2361 ± 1.785
2420
2400
2380
2360
2340
2320
2300
2280

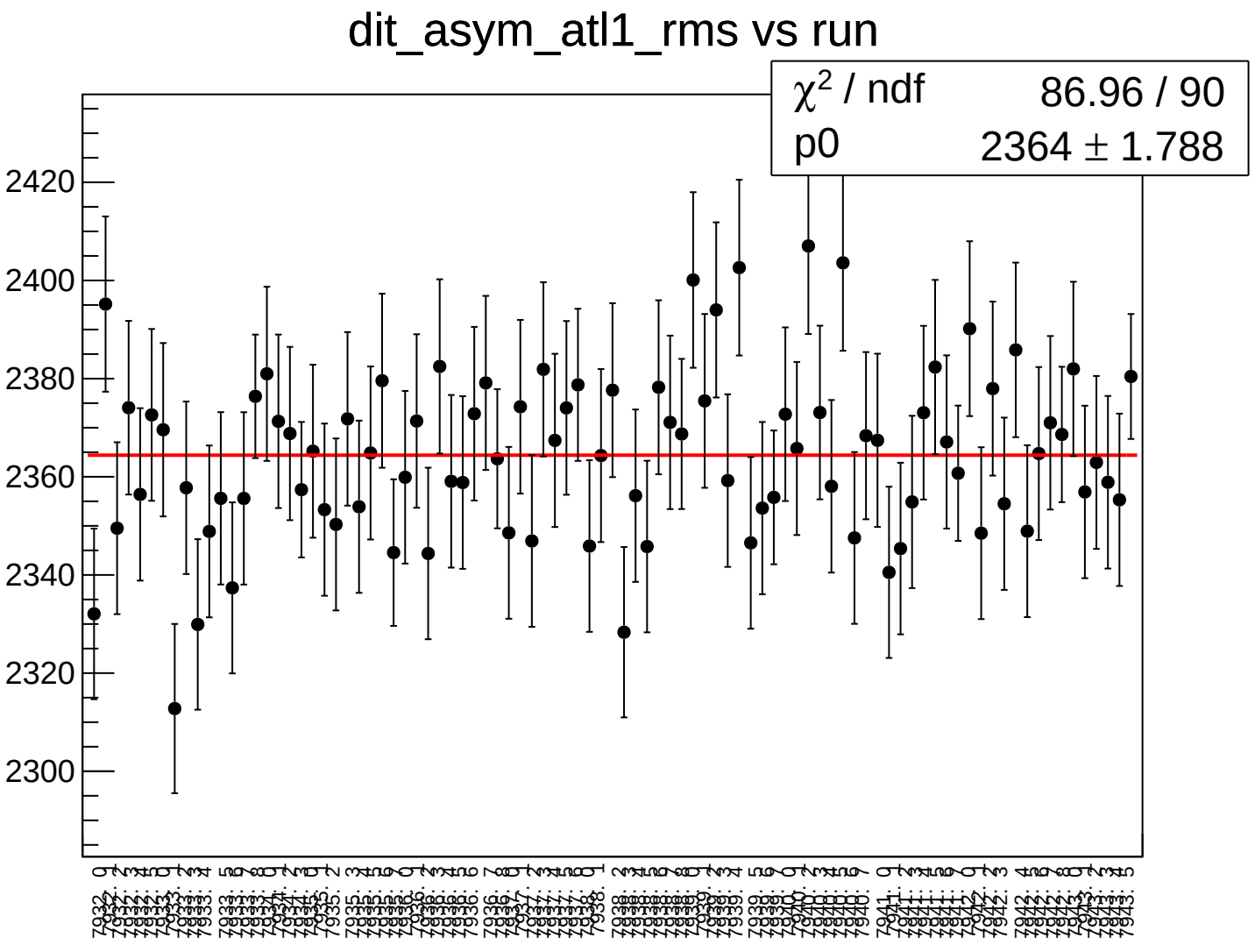

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 112.9 / 90
p0 339.4 ± 892.6
pull
Entries 91
Mean −108.6
Std Dev 0

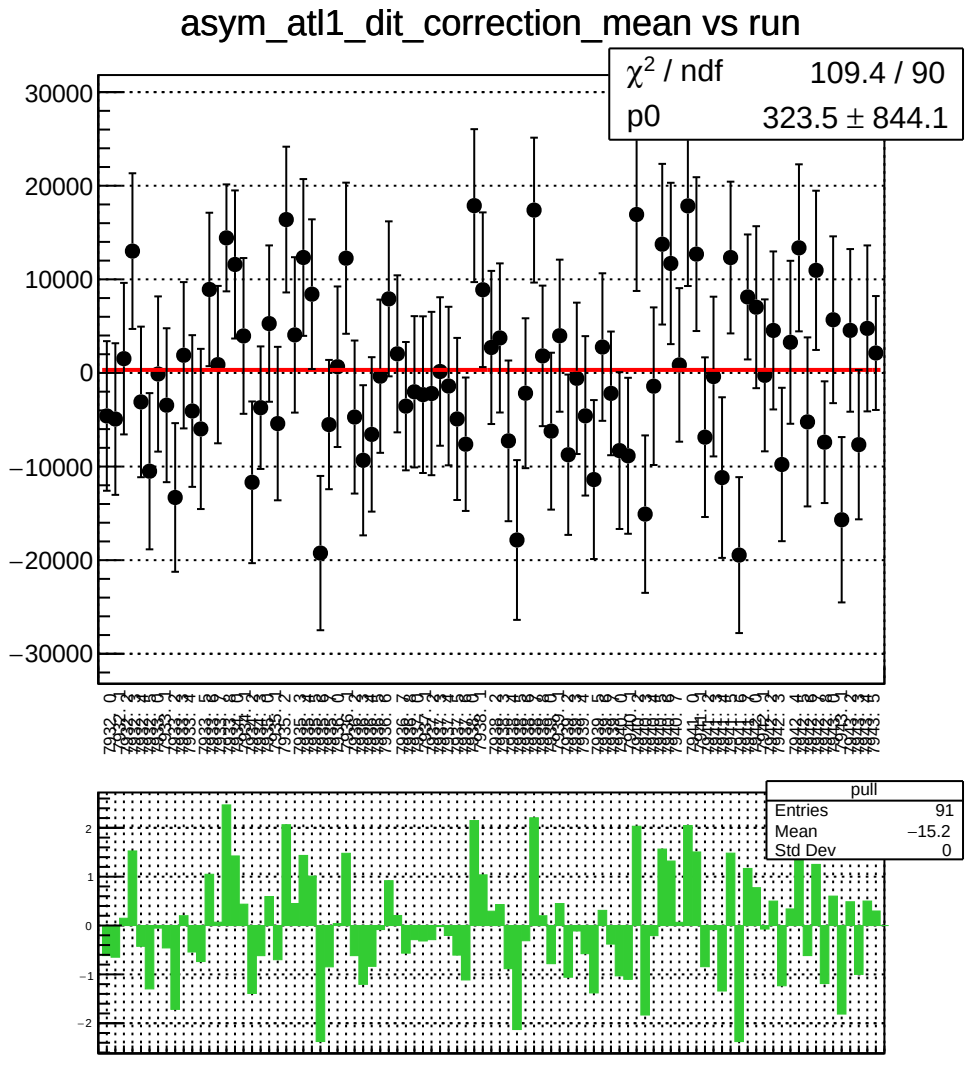

pull1D
Entries 91
Mean −0.007347
Std Dev 1.114

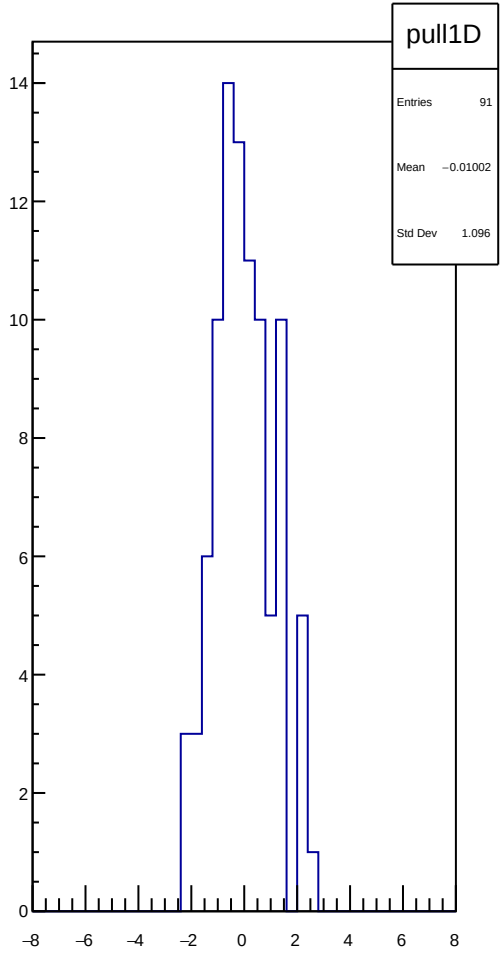

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 6867 / 90
p0 832.9 ± 0.6312
1050
1000
950
900
850
800
750
700

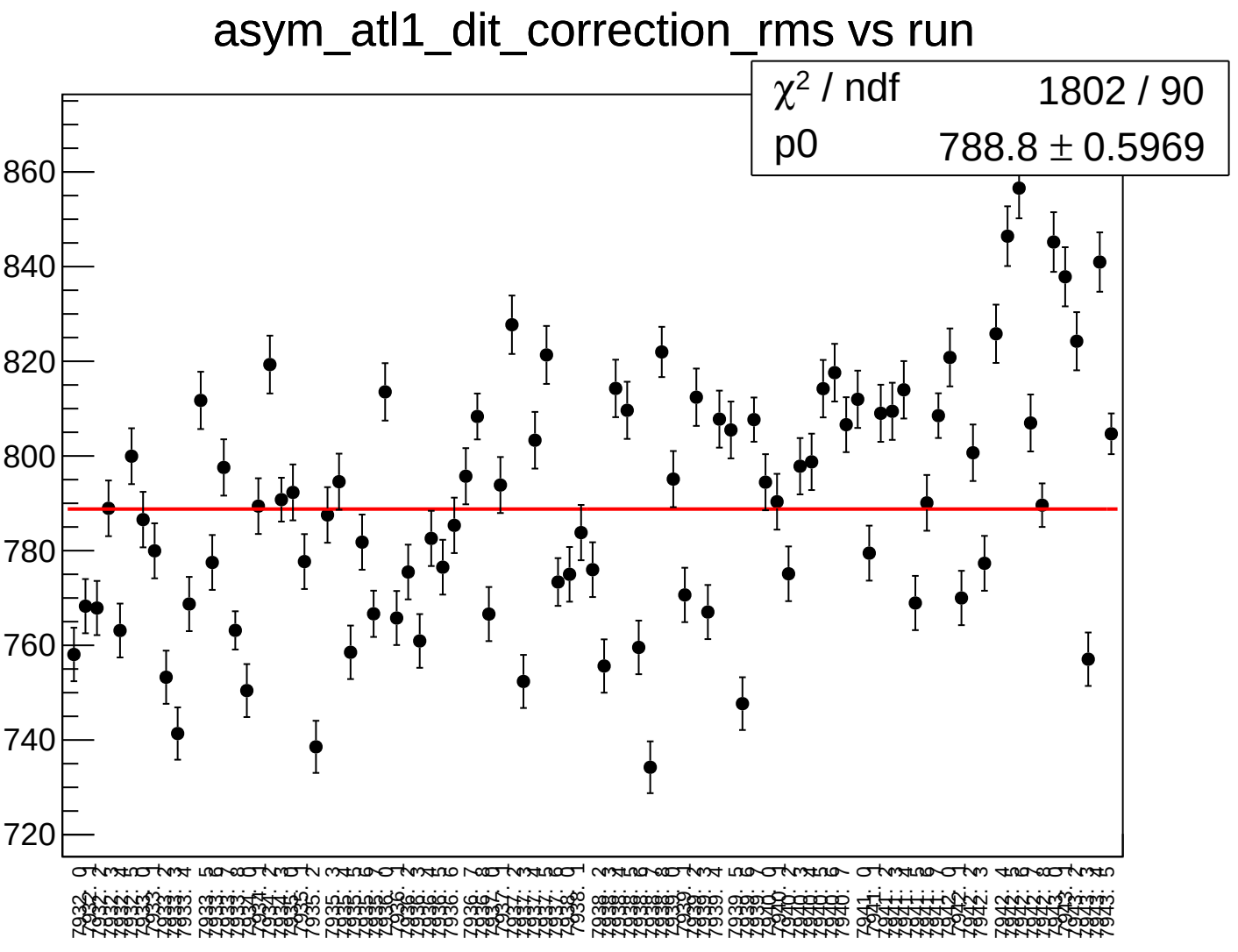

dit_asym_atl1_mean vs run
χ² / ndf 70.46 / 90
p0 668.7 ± 2529
pull
Entries 91
Mean −240.9
Std Dev 0

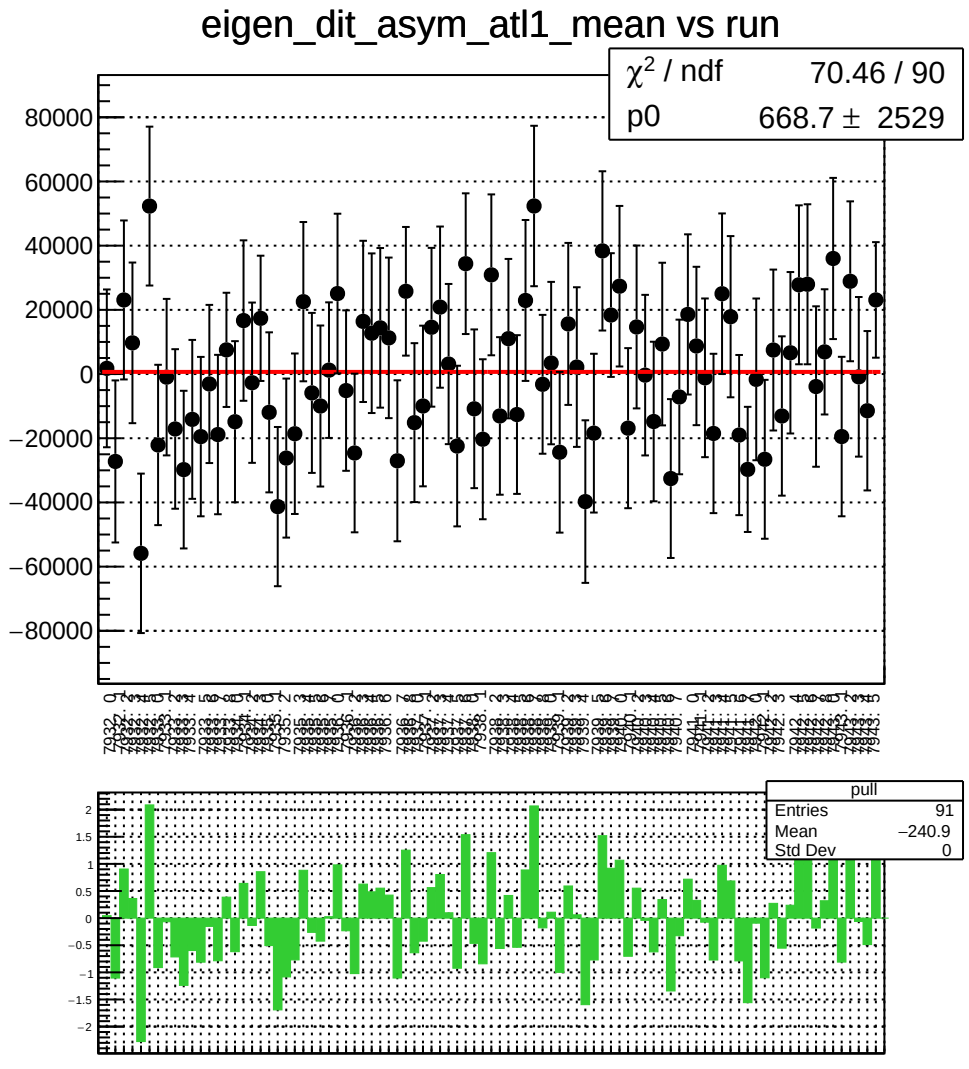

pull1D
Entries 91
Mean −0.01315
Std Dev 0.8798

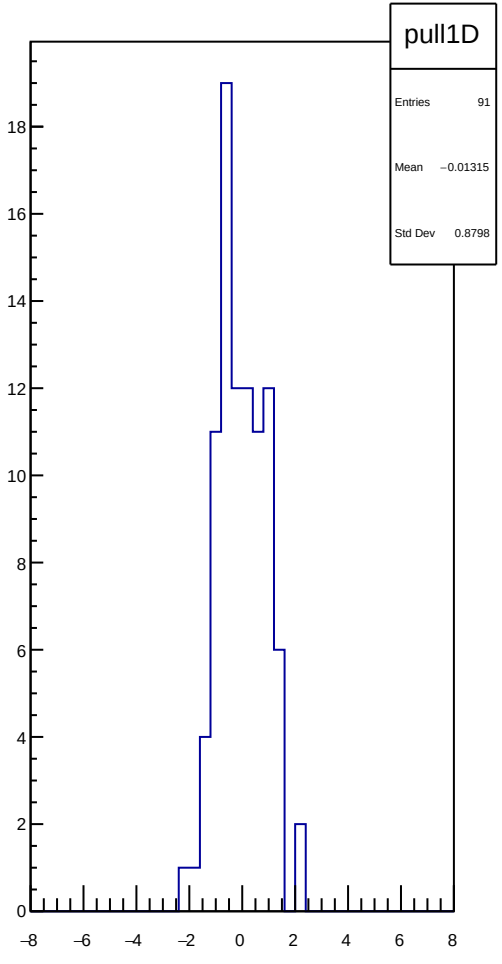

dit_asym_atl1_rms vs run
χ² / ndf 86.96 / 90
p0 2364 ± 1.788
2420
2400
2380
2360
2340
2320
2300

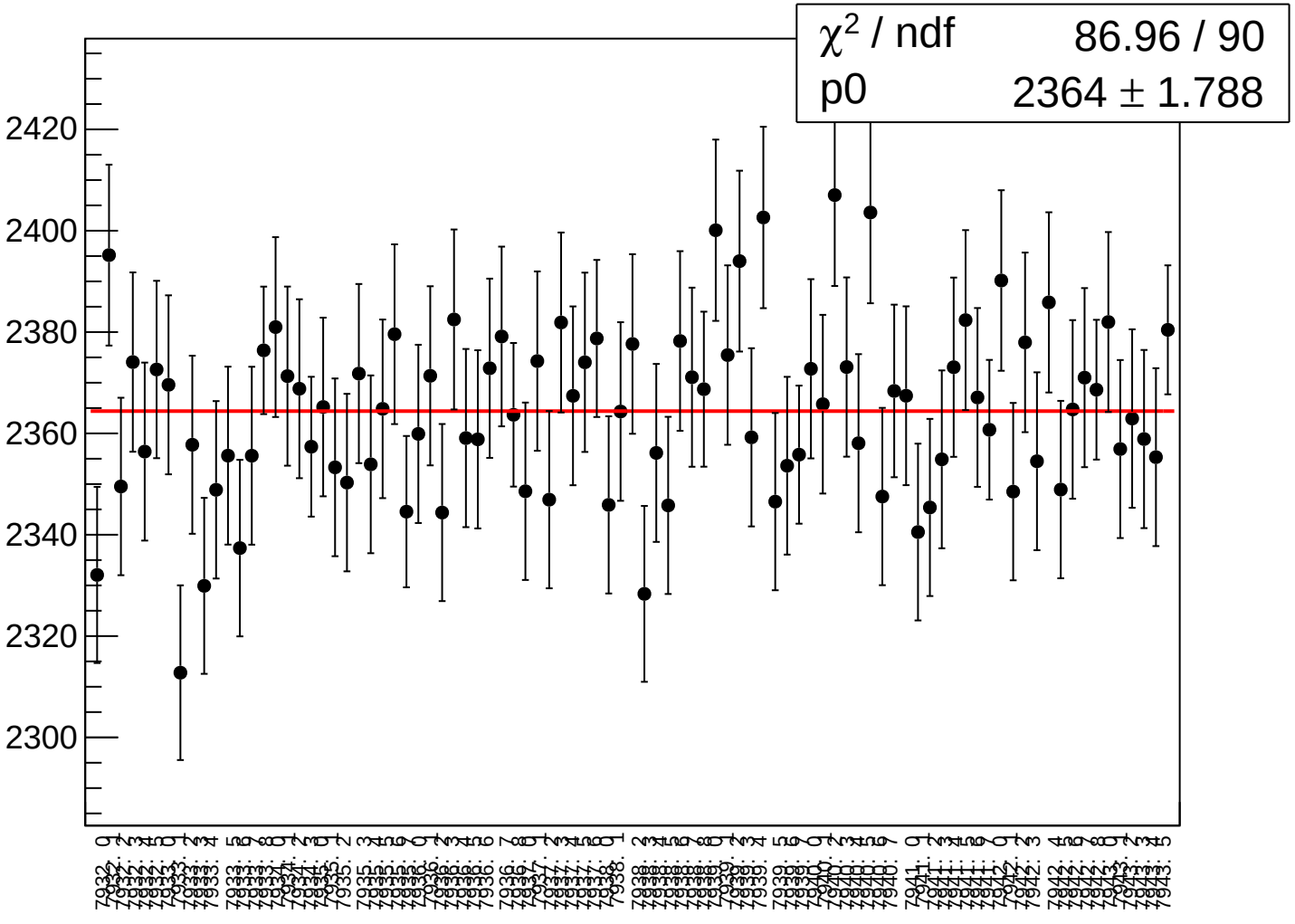

asym_atl1_dit_correction_mean vs run
χ² / ndf 109.4 / 90
p0 323.5 ± 844.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −15.2
Std Dev 0
2
1
0
−1
−2

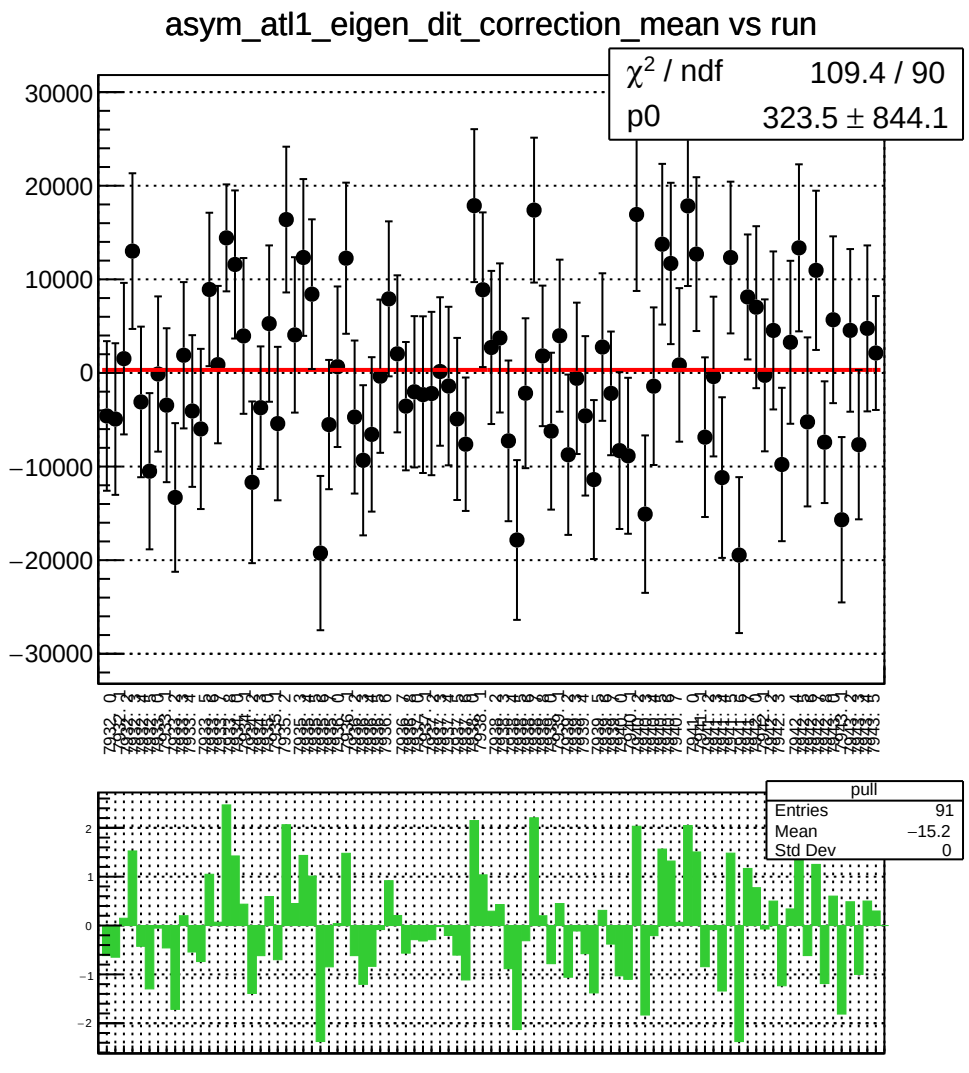

pull1D
Entries 91
Mean −0.01002
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

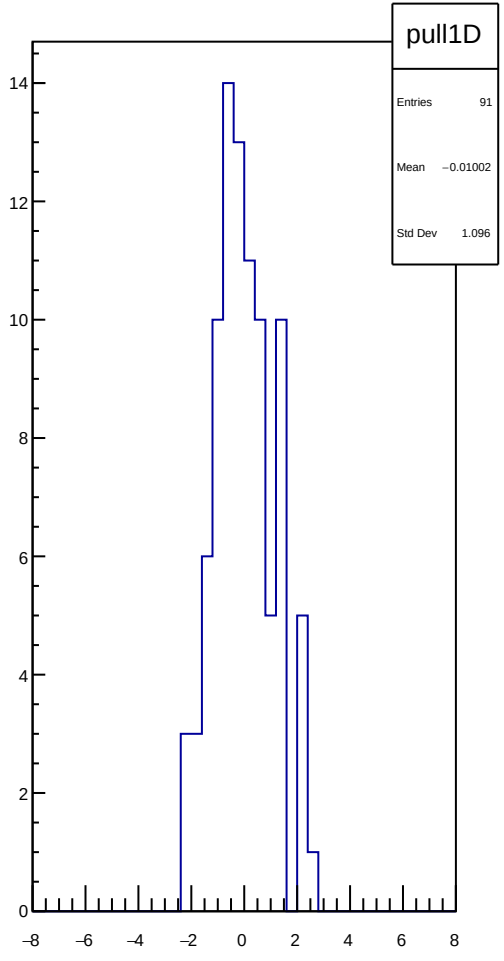

asym_atl1_dit_correction_rms vs run
χ² / ndf 1802 / 90
p0 788.8 ± 0.5969
860
840
820
800
780
760
740
720

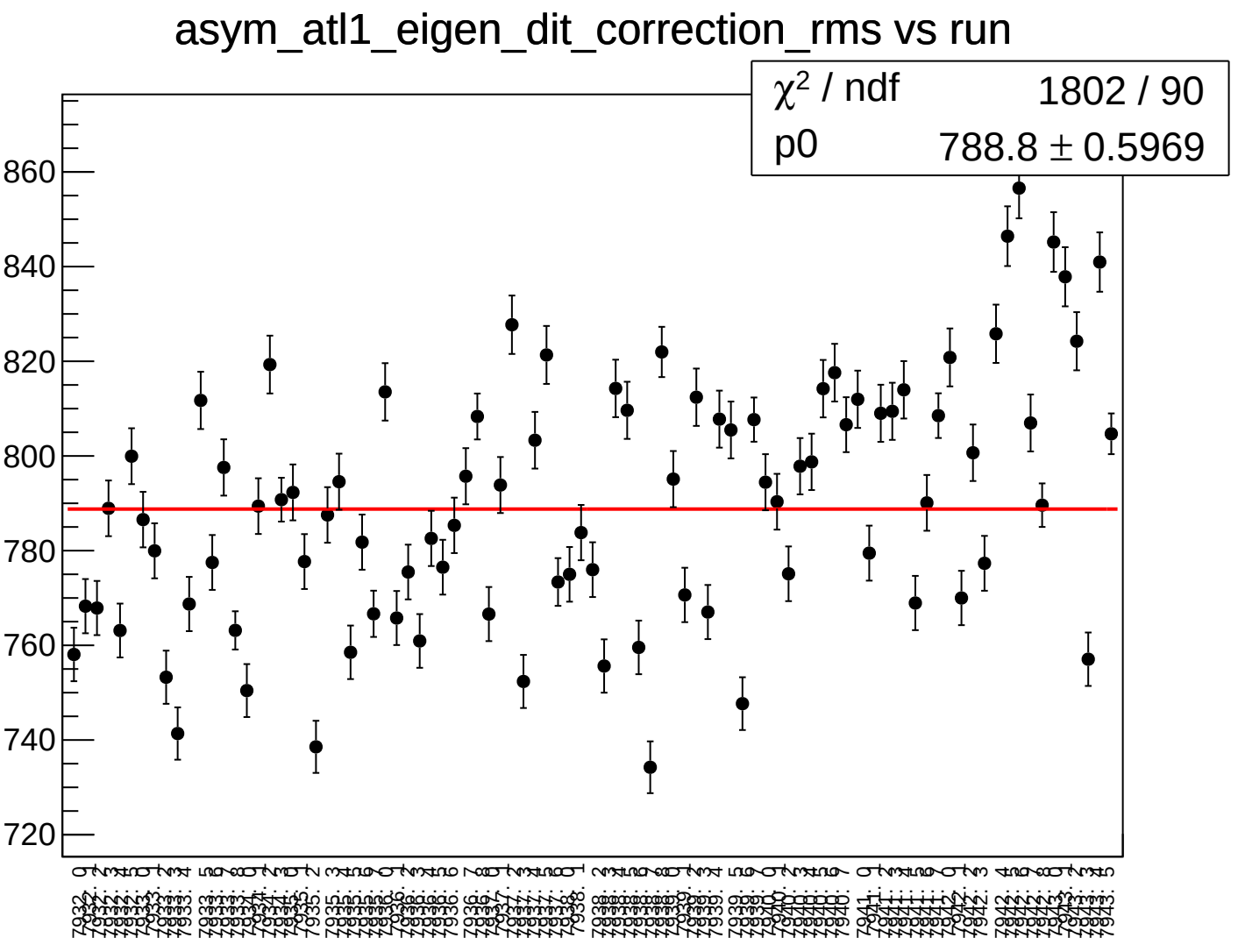

eigen_dit_asym_atl1_mean vs run
χ² / ndf 70.46 / 90
p0 668.7 ± 2529
pull
Entries 91
Mean −240.9
Std Dev 0

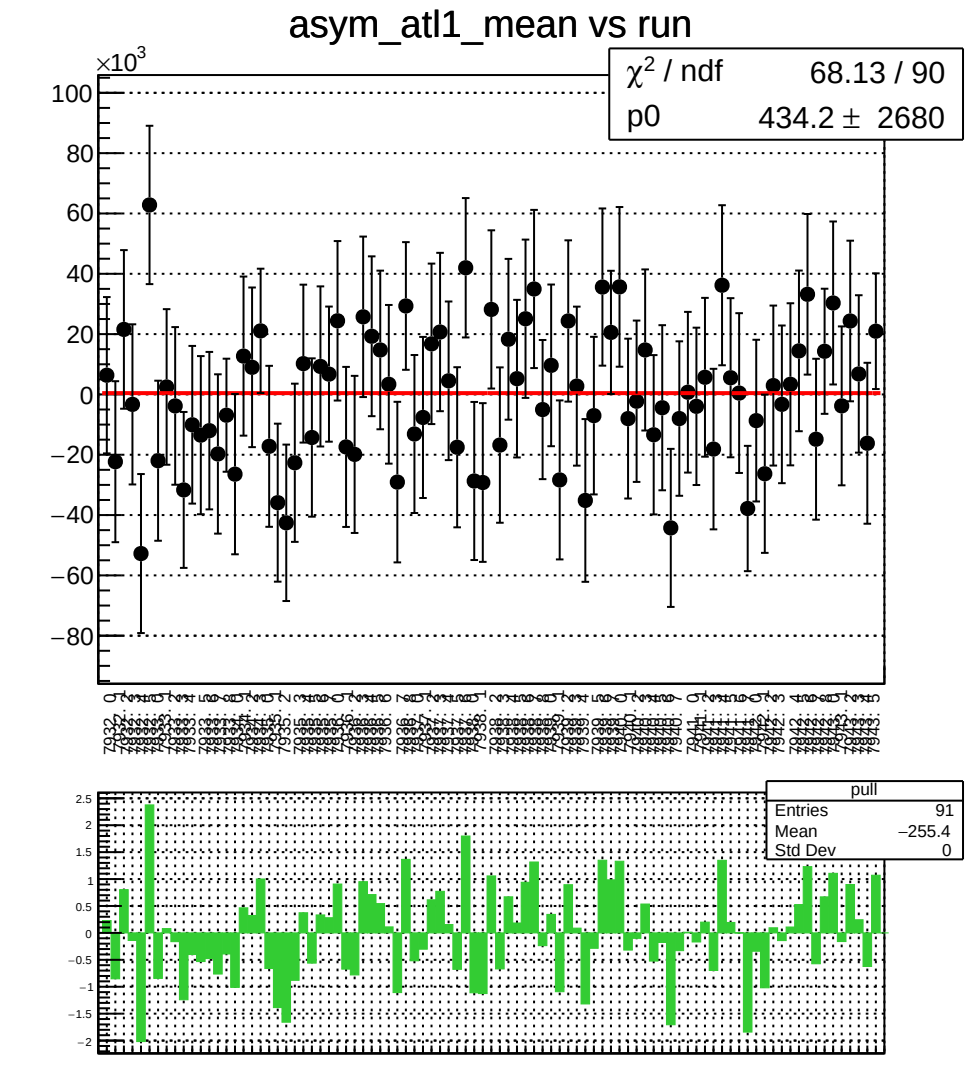

pull1D
Entries 91
Mean −0.01315
Std Dev 0.8798

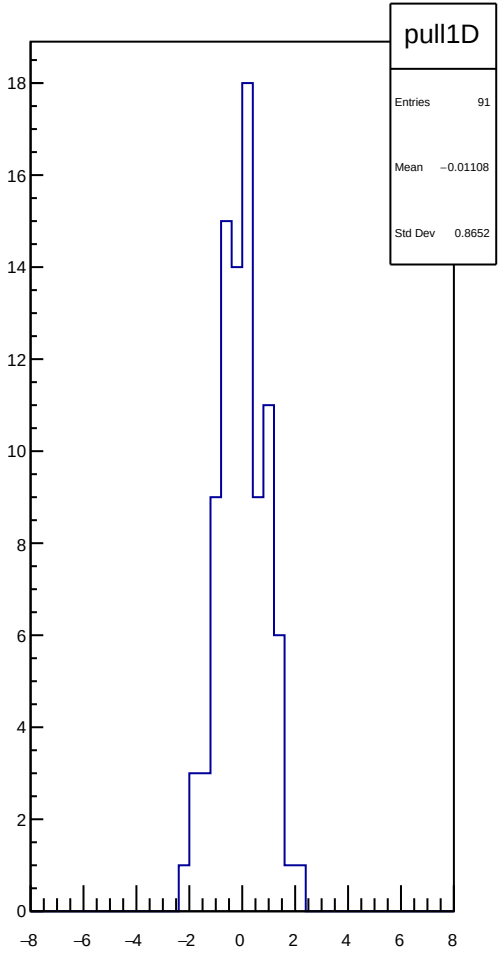

eigen_dit_asym_atl1_rms vs run
χ² / ndf 86.96 / 90
p0 2364 ± 1.788
2420
2400
2380
2360
2340
2320
2300

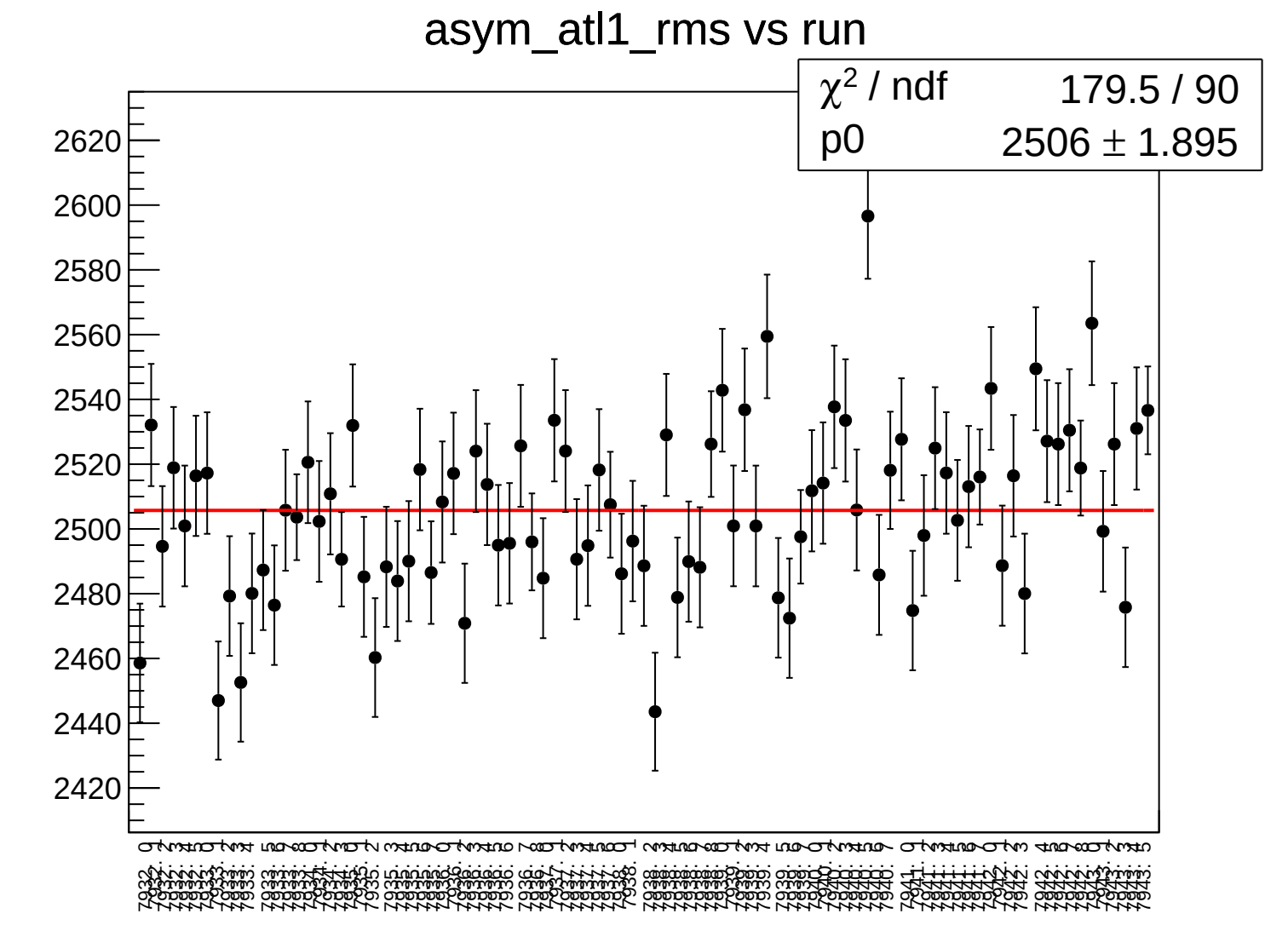

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 109.4 / 90
p0 323.5 ± 844.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −15.2
Std Dev 0
2
1
0
−1
−2

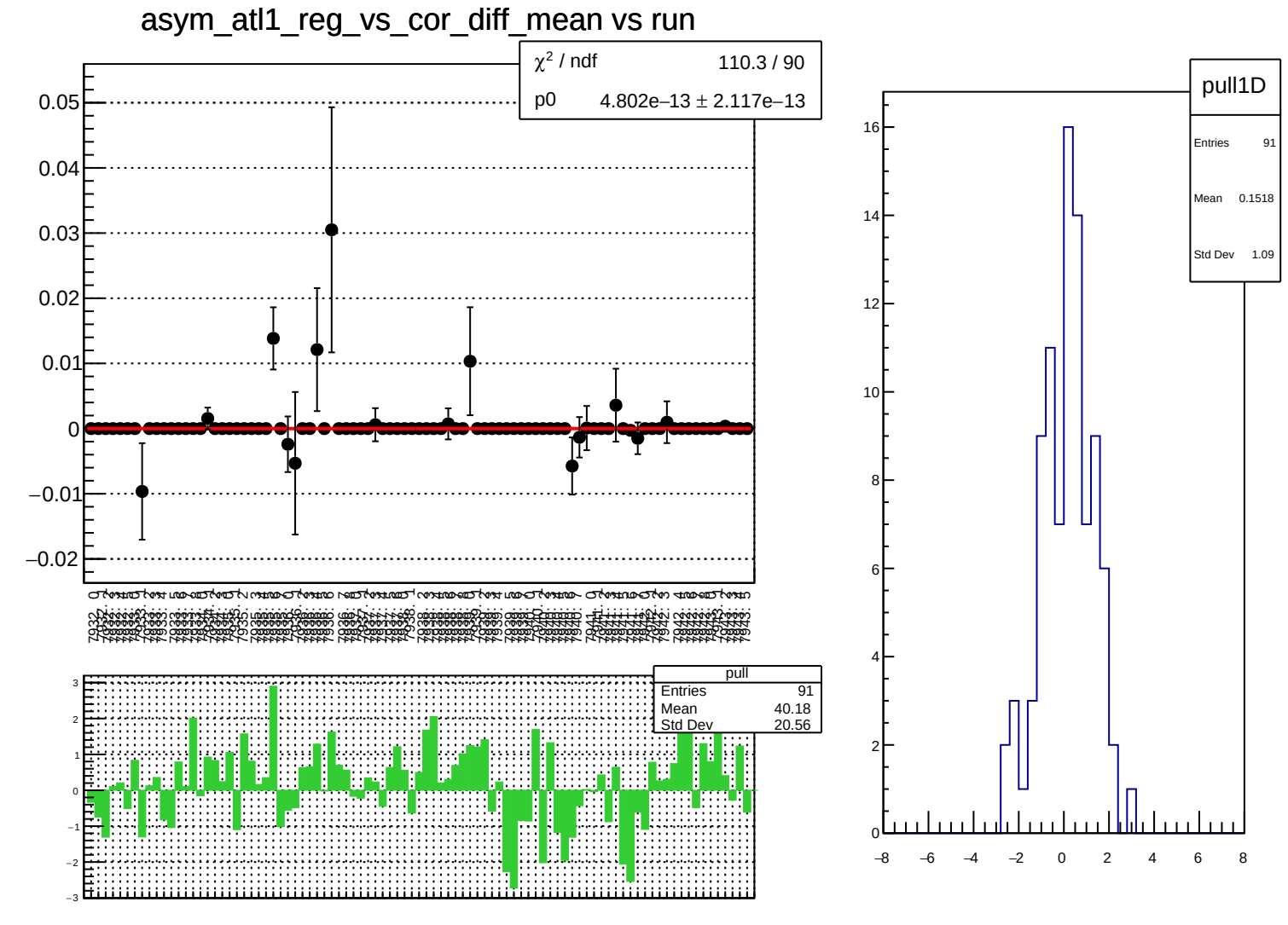

pull1D
Entries 91
Mean −0.01002
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

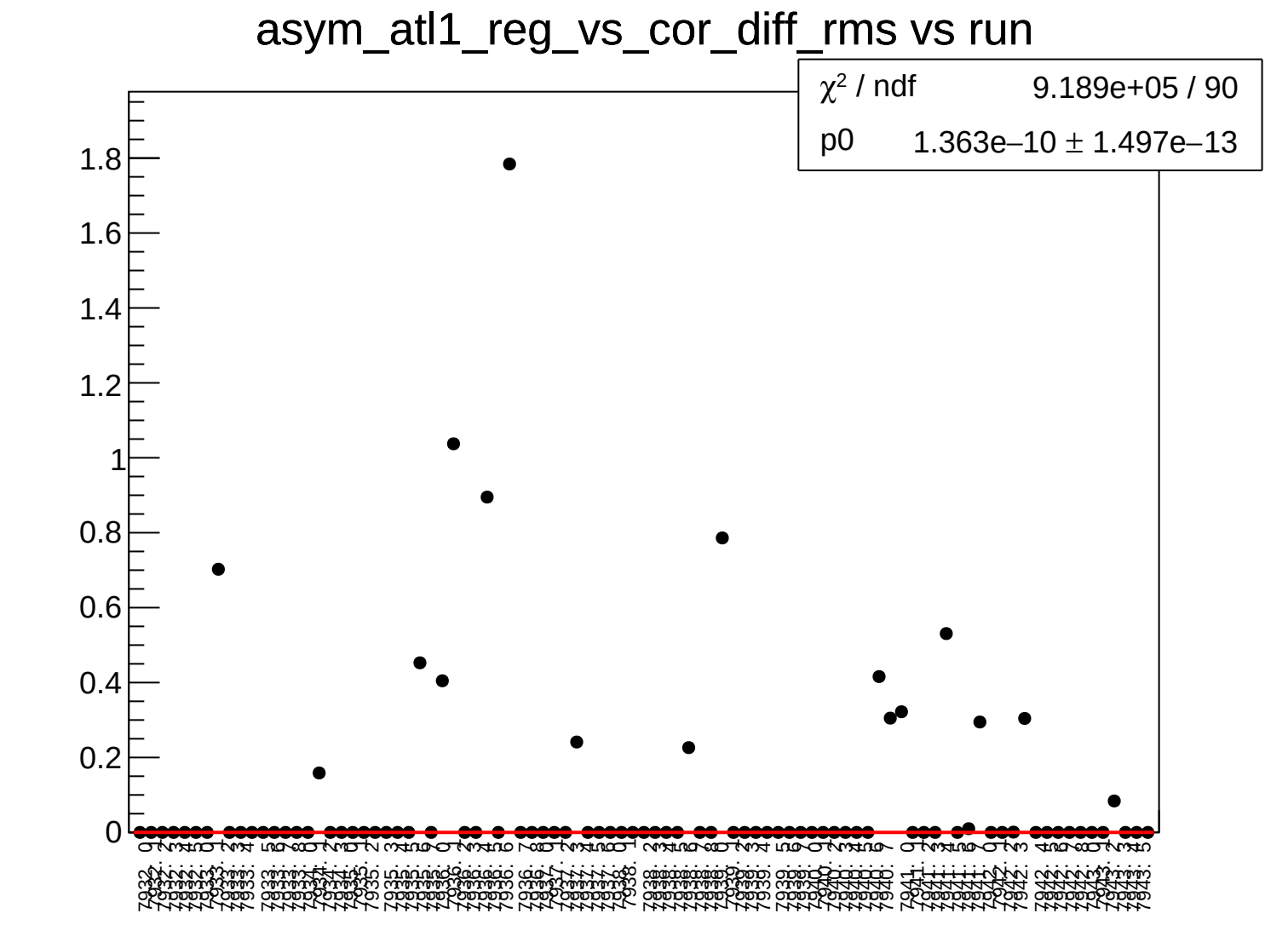

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1802 / 90
p0 788.8 ± 0.5969
860
840
820
800
780
760
740
720

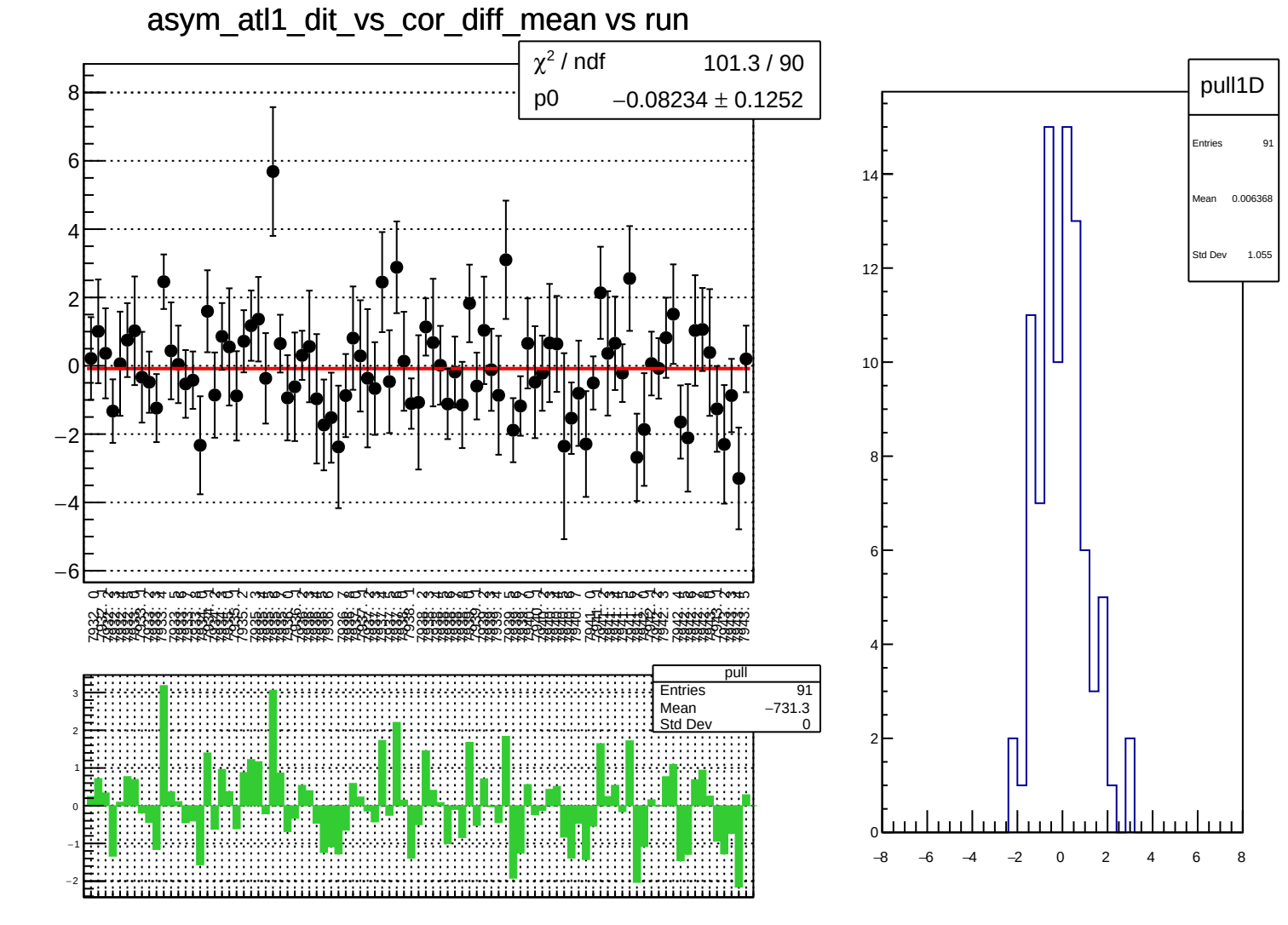

asym_atl1_mean vs run
×10^3
χ^2 / ndf 68.13 / 90
p0 434.2 ± 2680
pull
Entries 91
Mean −255.4
Std Dev 0

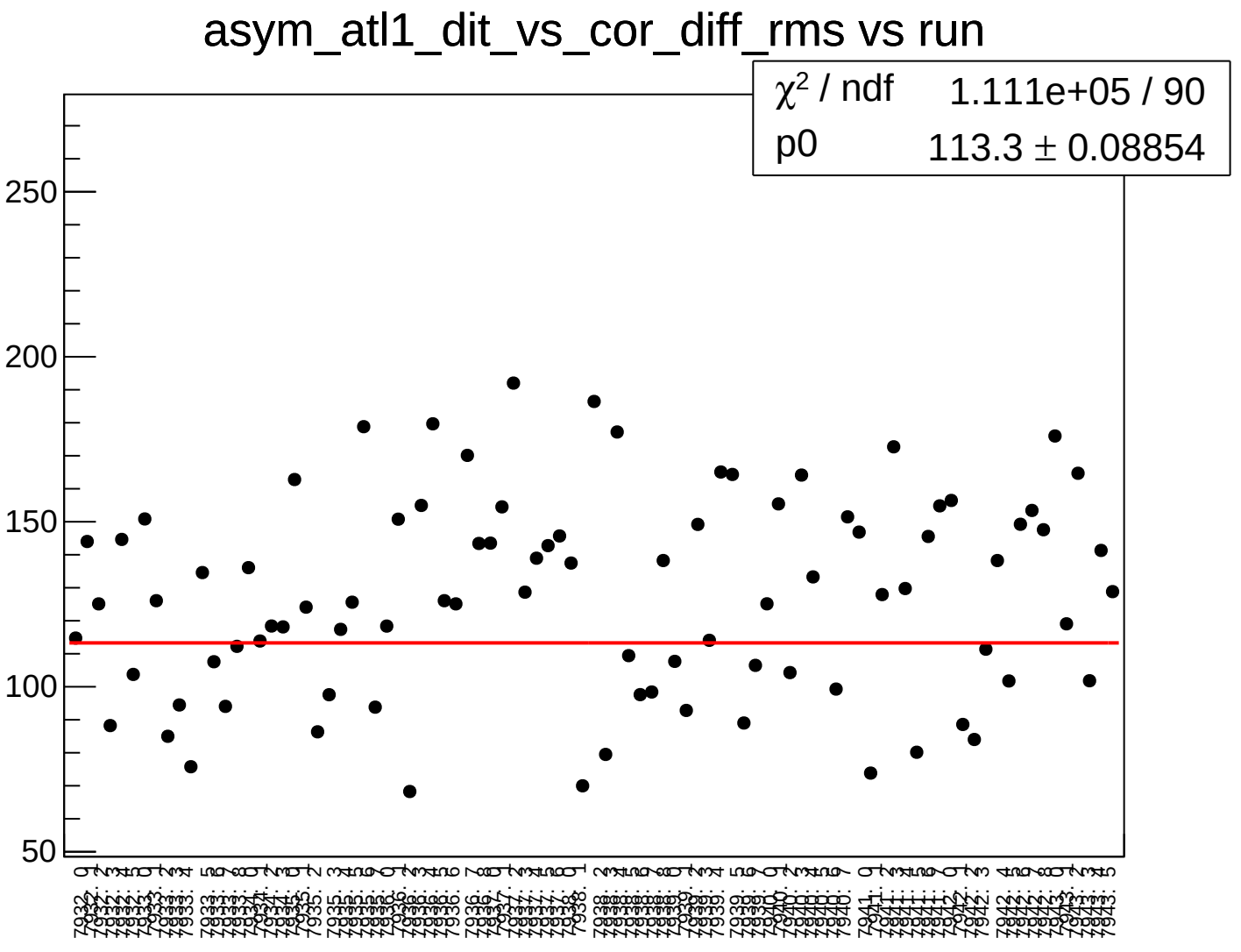

pull1D
Entries 91
Mean −0.01108
Std Dev 0.8652

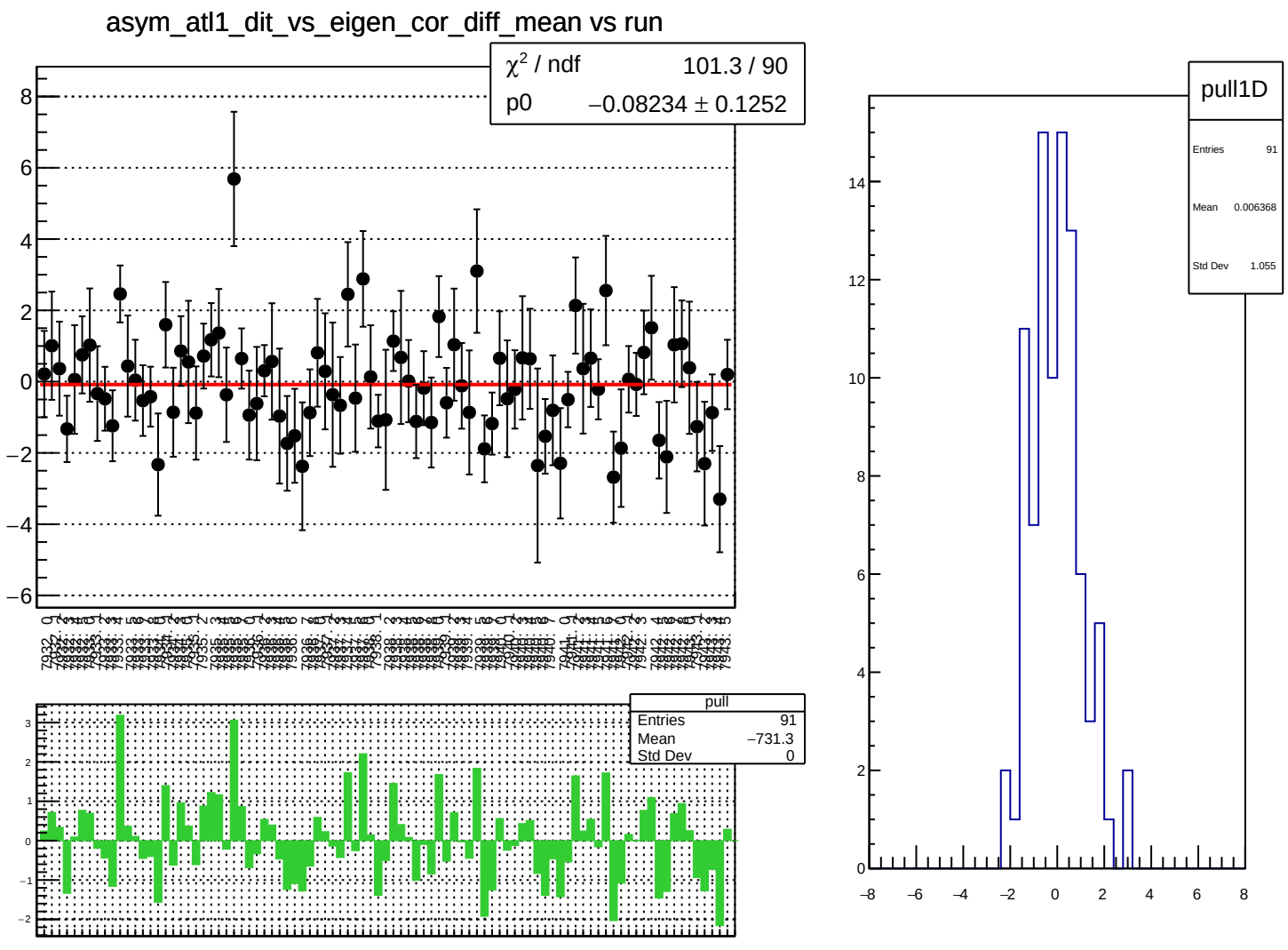

asym_atl1_rms vs run
χ^2 / ndf 179.5 / 90
p0 2506 ± 1.895
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

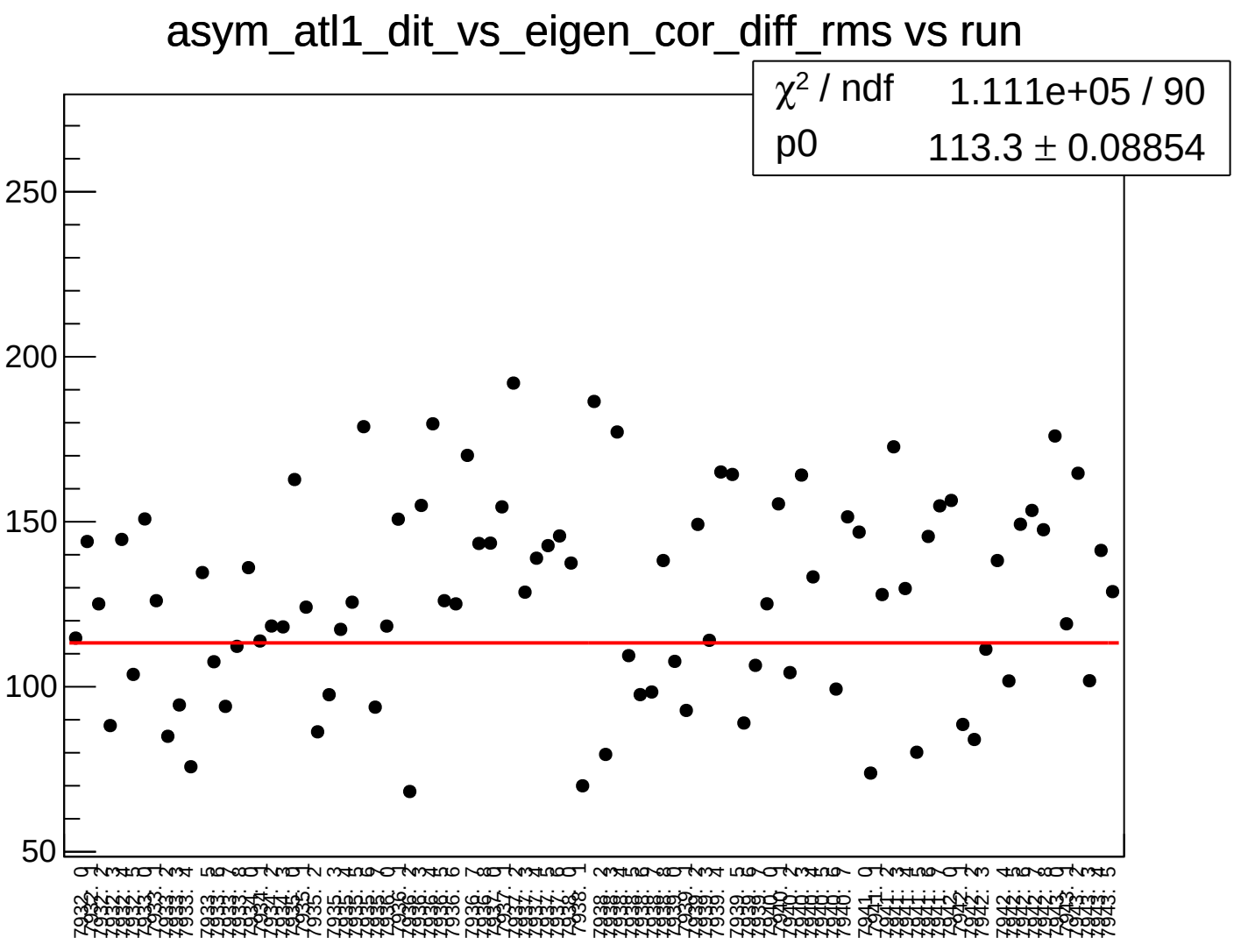

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 90
p0 4.802e−13 ± 2.117e−13
pull
Entries 91
Mean 40.18
Std Dev 20.56
pull1D
Entries 91
Mean 0.1518
Std Dev 1.09

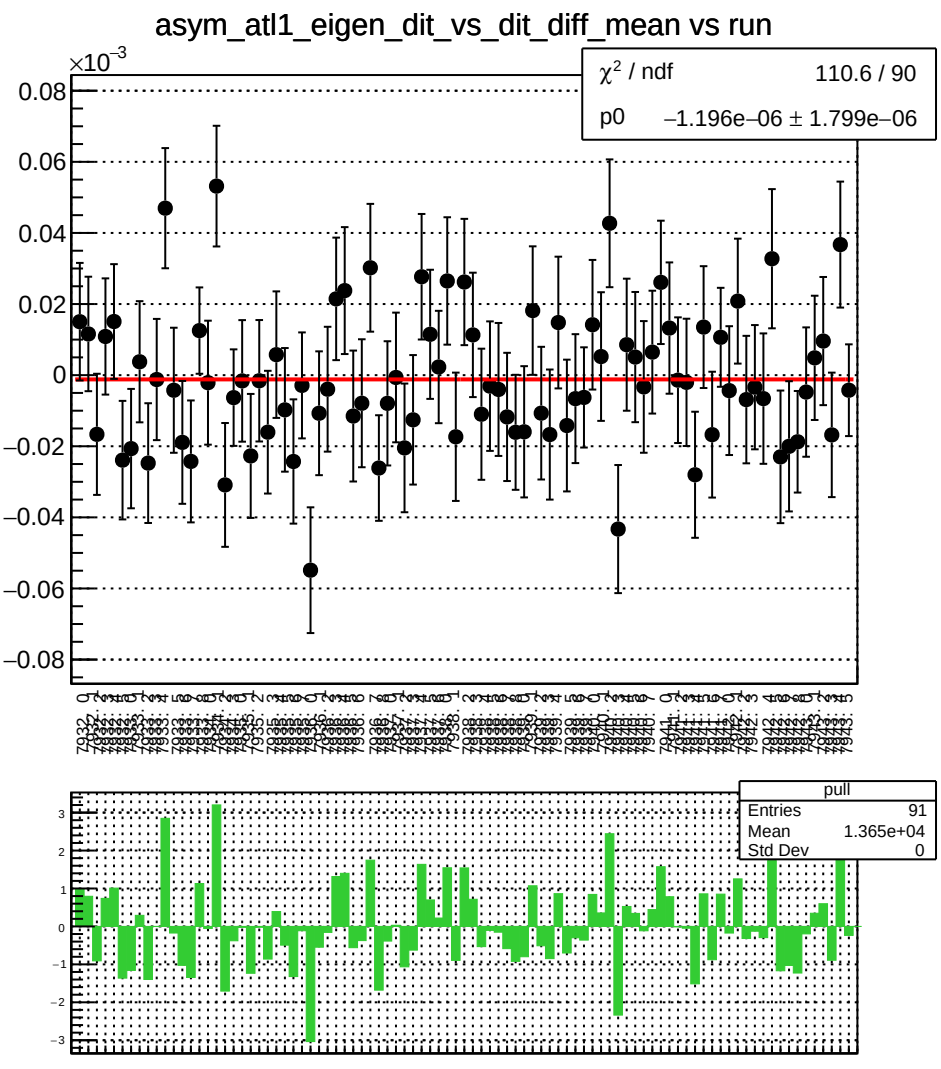

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.189e+05 / 90
p0 1.363e−10 ± 1.497e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

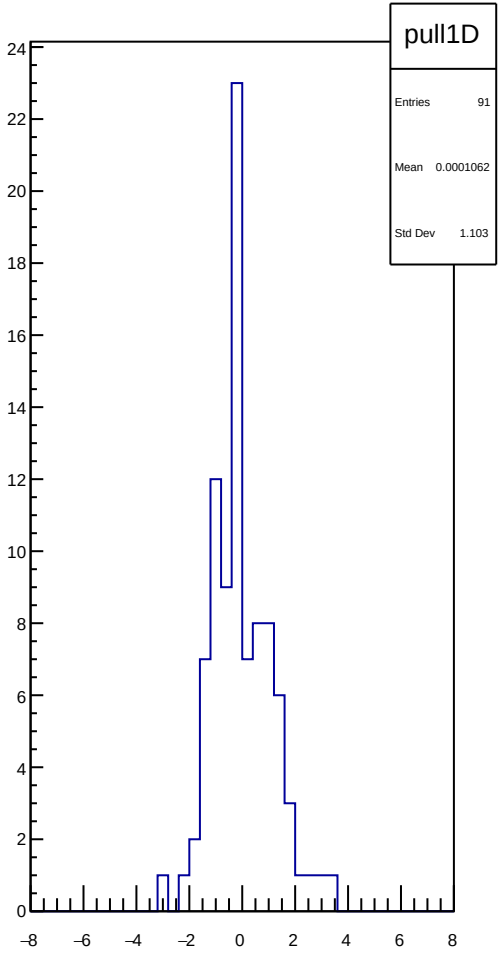

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 −0.08234 ± 0.1252
pull
Entries 91
Mean −731.3
Std Dev 0
pull1D
Entries 91
Mean 0.006368
Std Dev 1.055

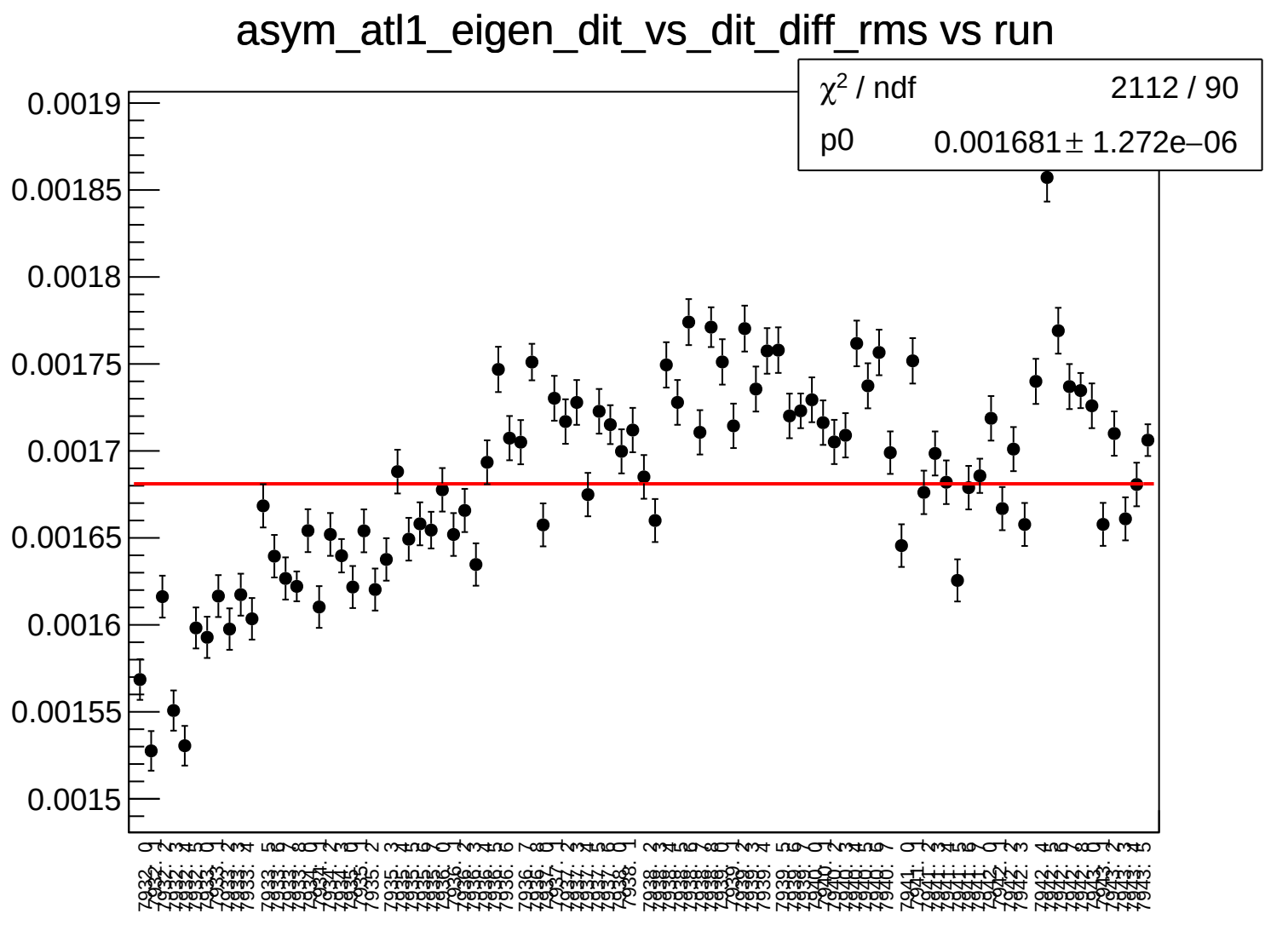

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.111e+05 / 90
p0 113.3 ± 0.08854
250
200
150
100
50

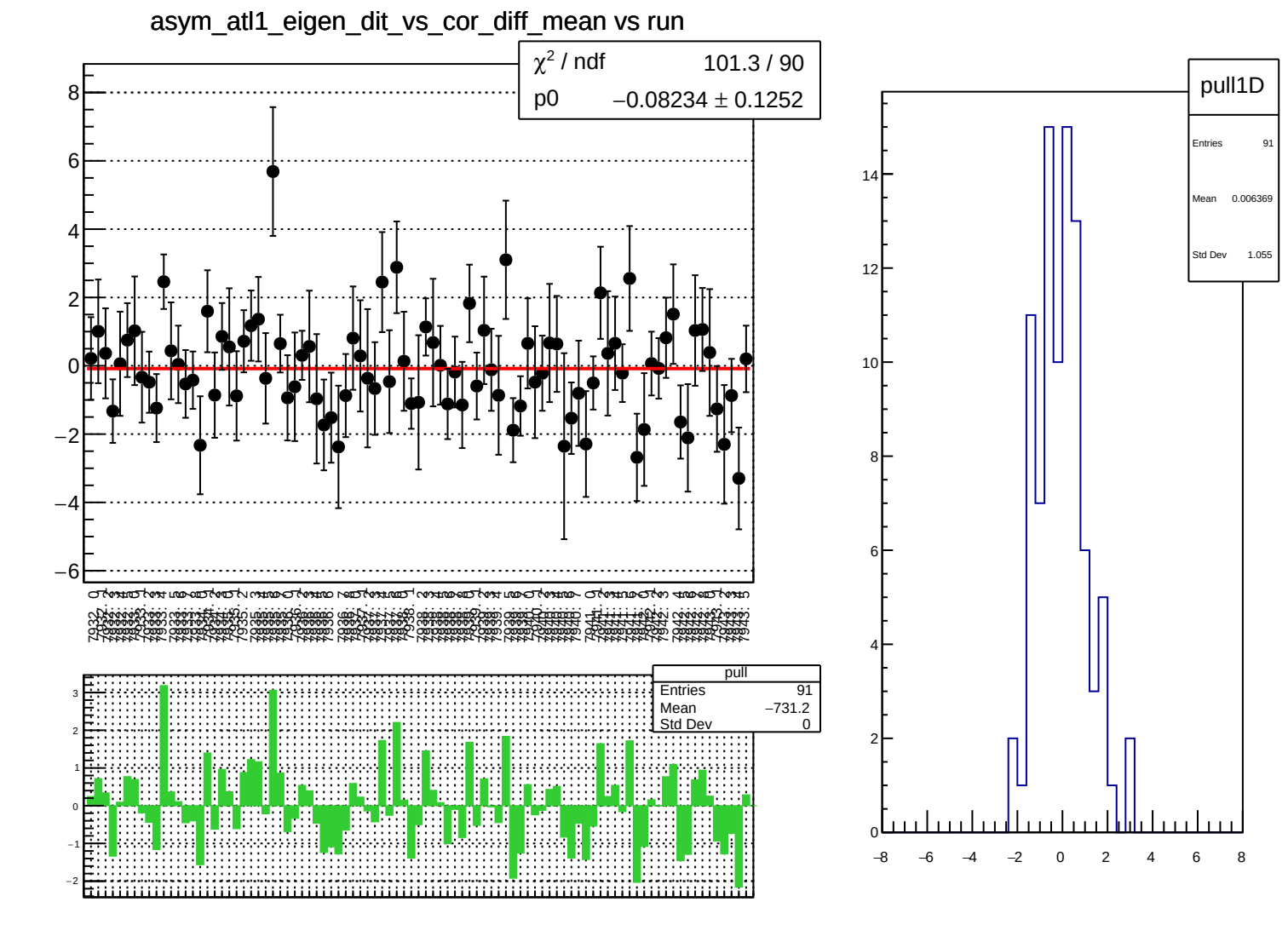

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 −0.08234 ± 0.1252
pull
Entries 91
Mean −731.3
Std Dev 0
pull1D
Entries 91
Mean 0.006368
Std Dev 1.055

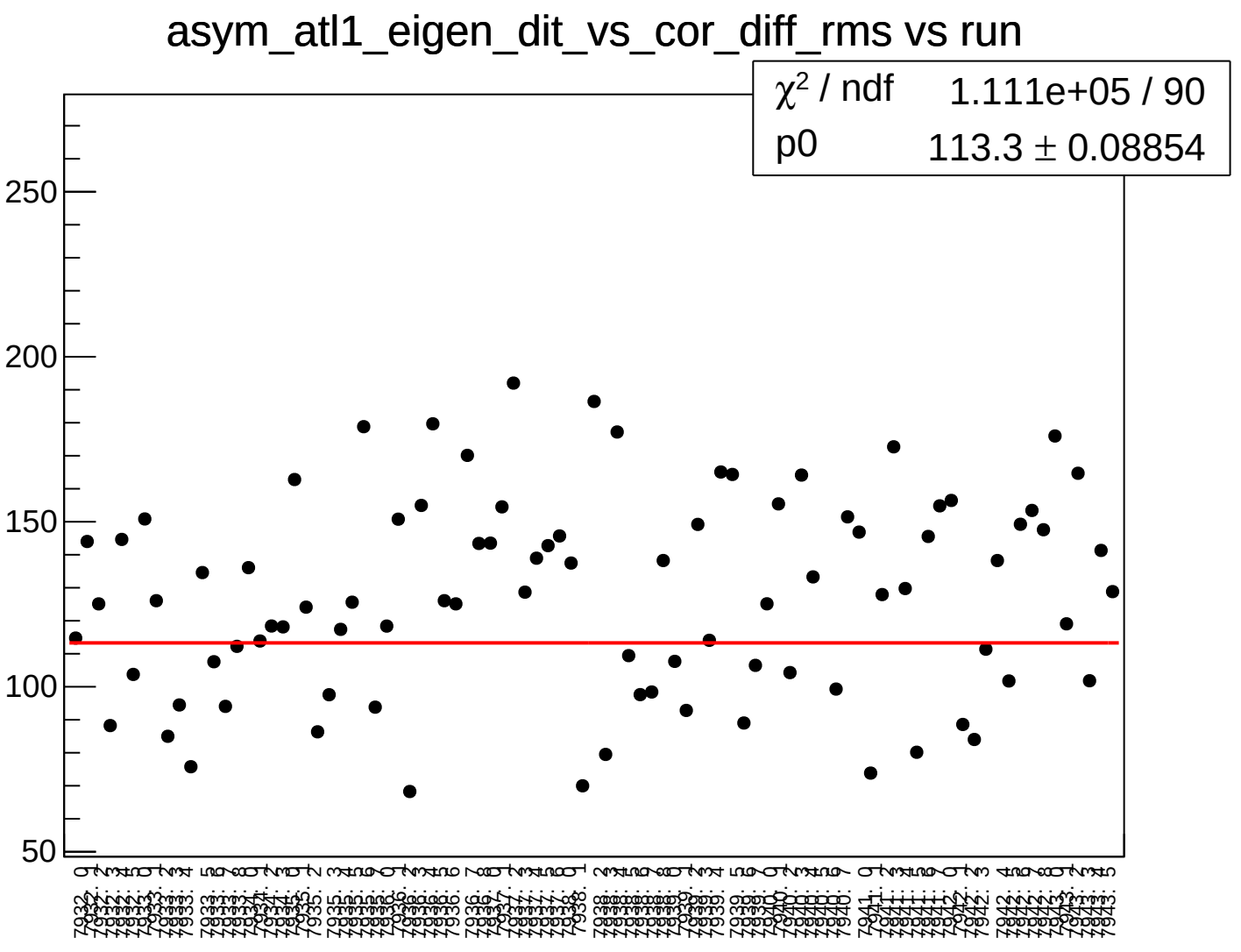

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.111e+05 / 90
p0 113.3 ± 0.08854
250
200
150
100
50

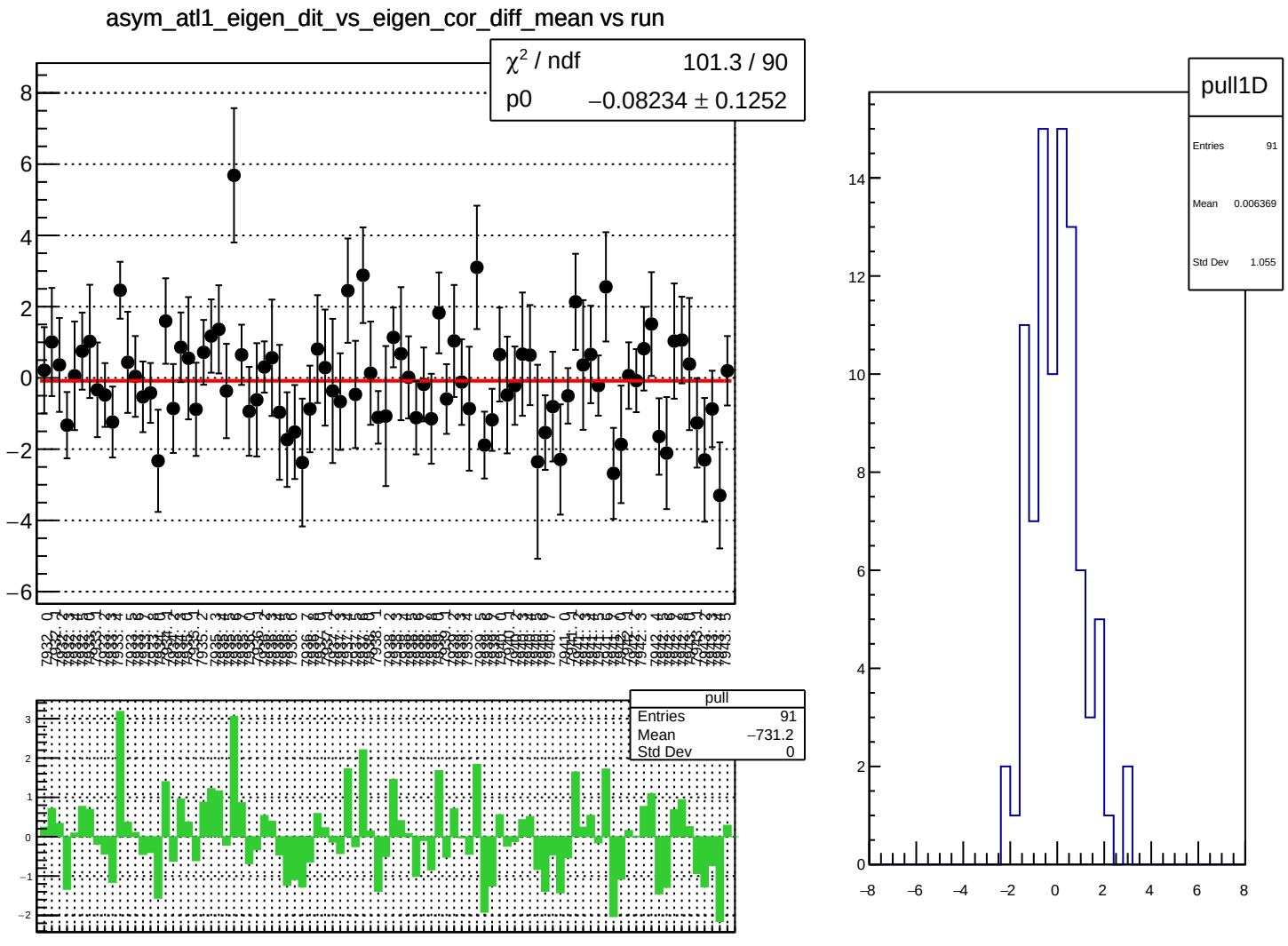

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.6 / 90
p0 −1.196e−06 ± 1.799e−06
pull
Entries 91
Mean 1.365e+04
Std Dev 0

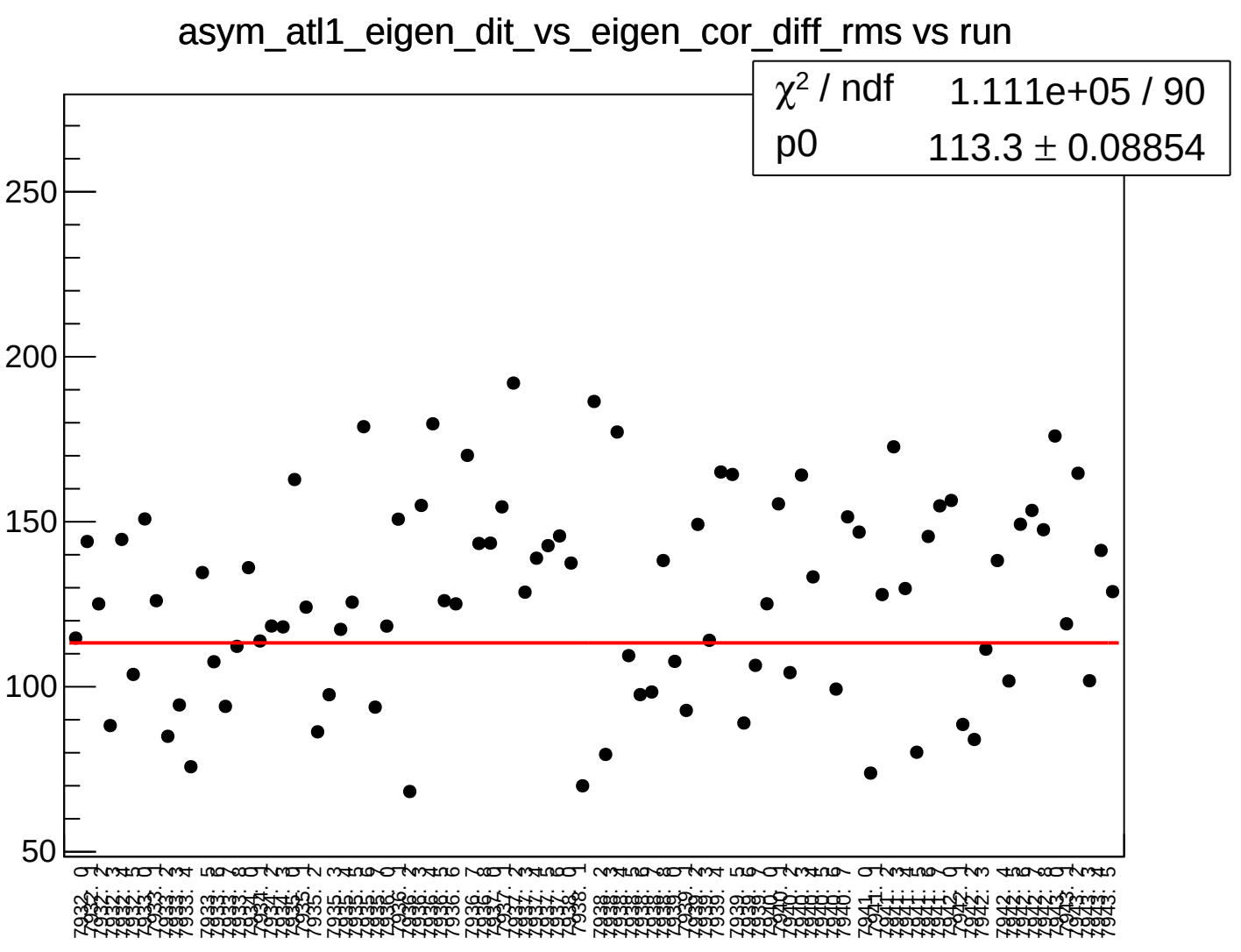

pull1D
Entries 91
Mean 0.0001062
Std Dev 1.103

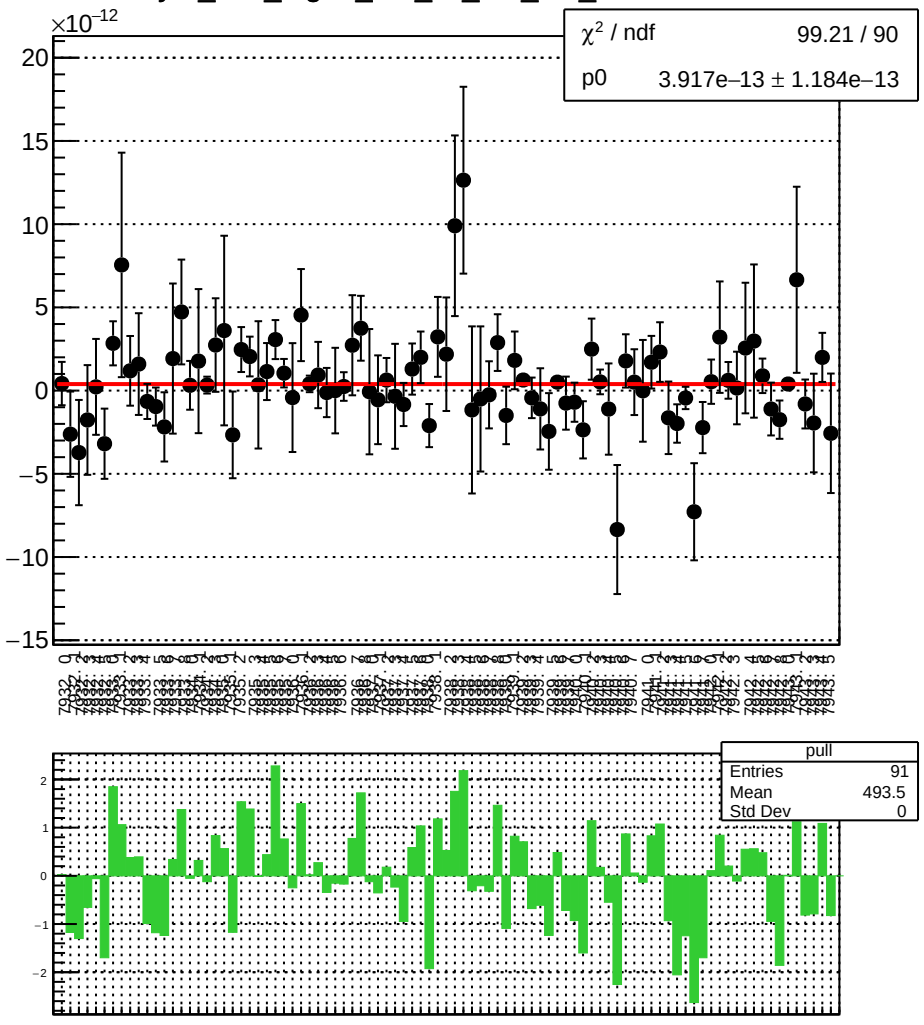

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2112 / 90
p0 0.001681 ± 1.272e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

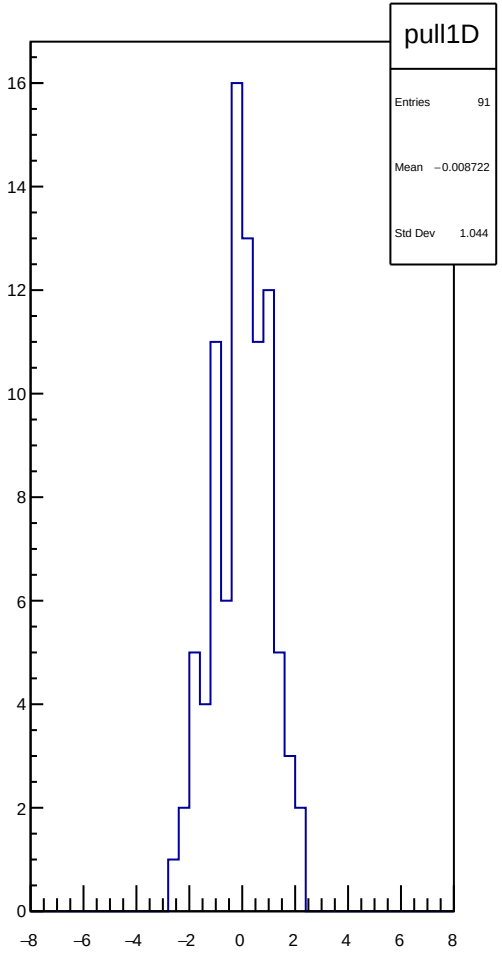

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 −0.08234 ± 0.1252
pull
Entries 91
Mean −731.2
Std Dev 0
pull1D
Entries 91
Mean 0.006369
Std Dev 1.055

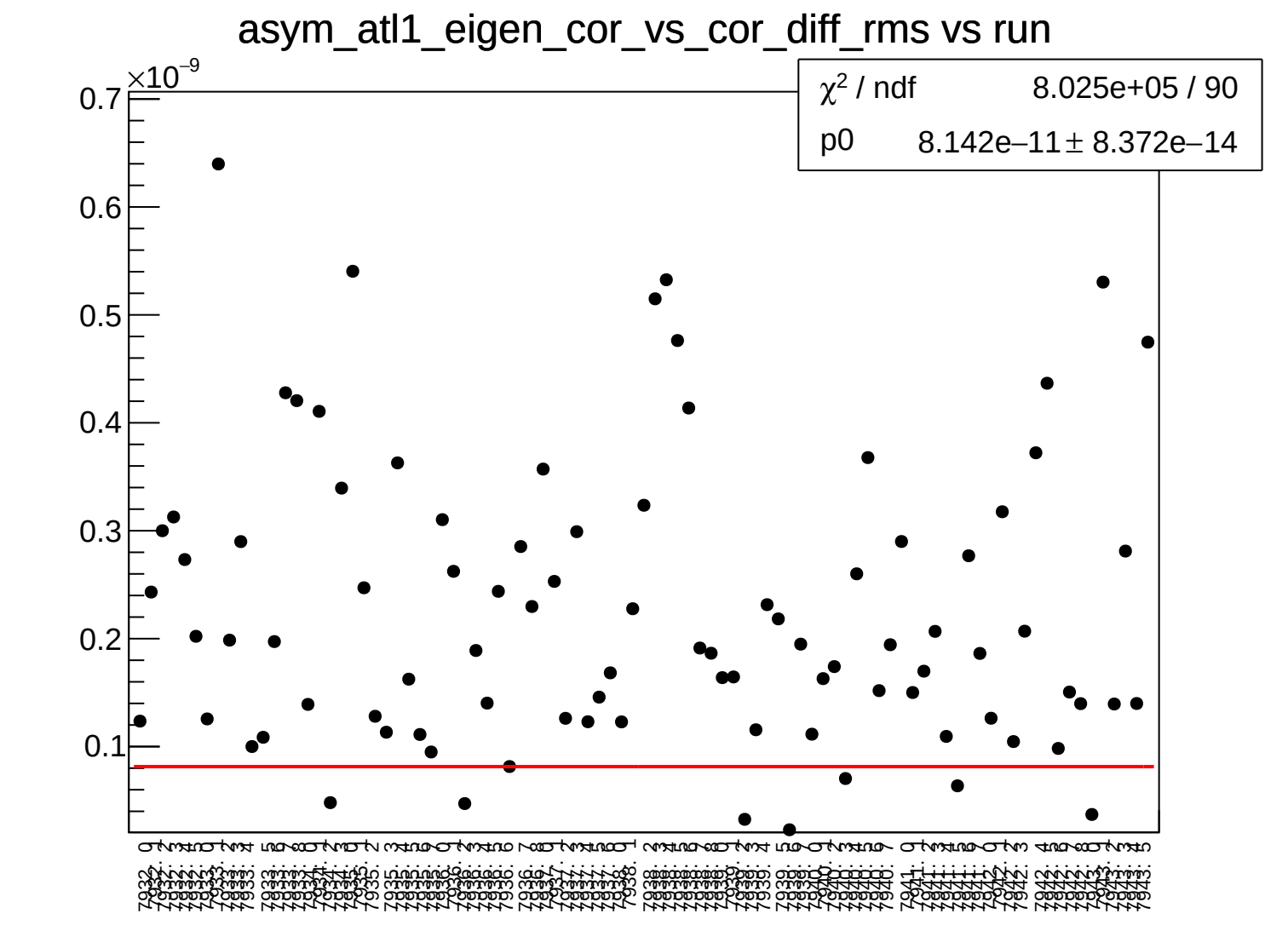

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.111e+05 / 90
p0 113.3 ± 0.08854
250
200
150
100
50

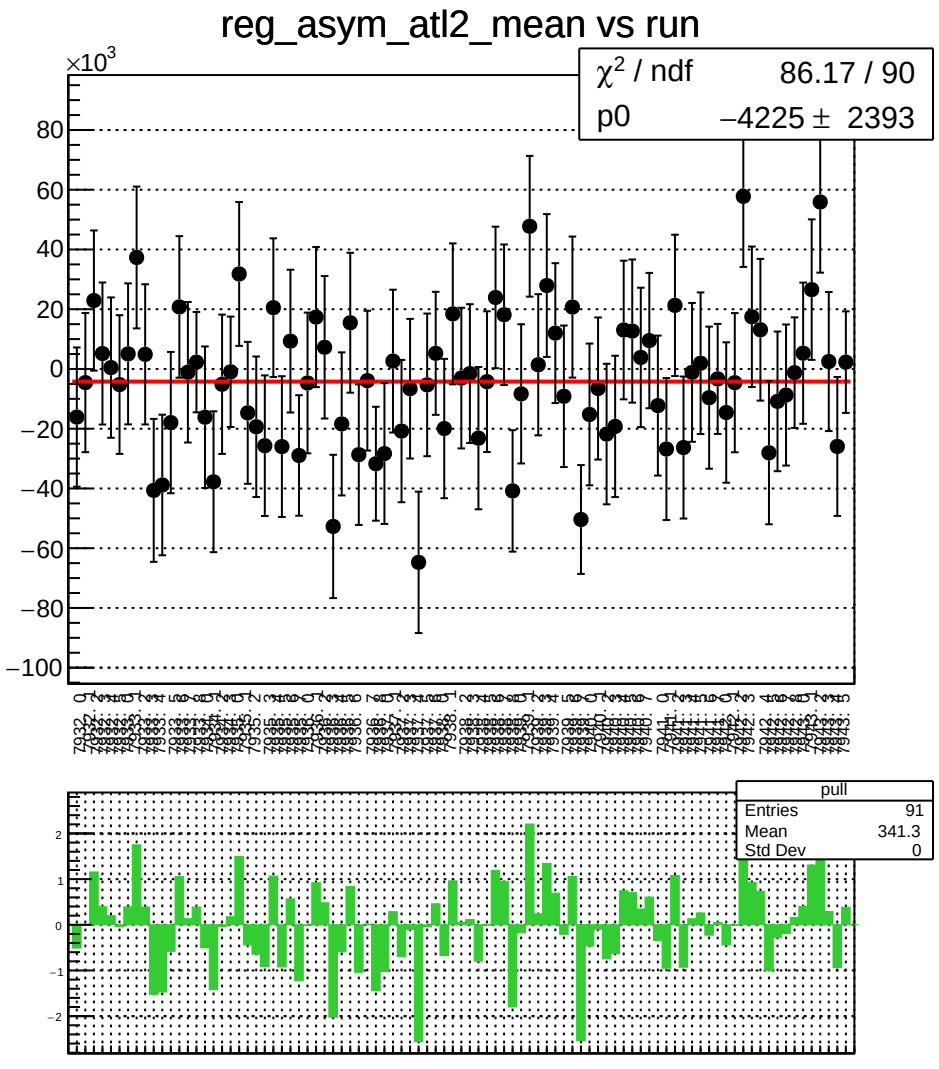

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 −0.08234 ± 0.1252
pull
Entries 91
Mean −731.2
Std Dev 0
pull1D
Entries 91
Mean 0.006369
Std Dev 1.055

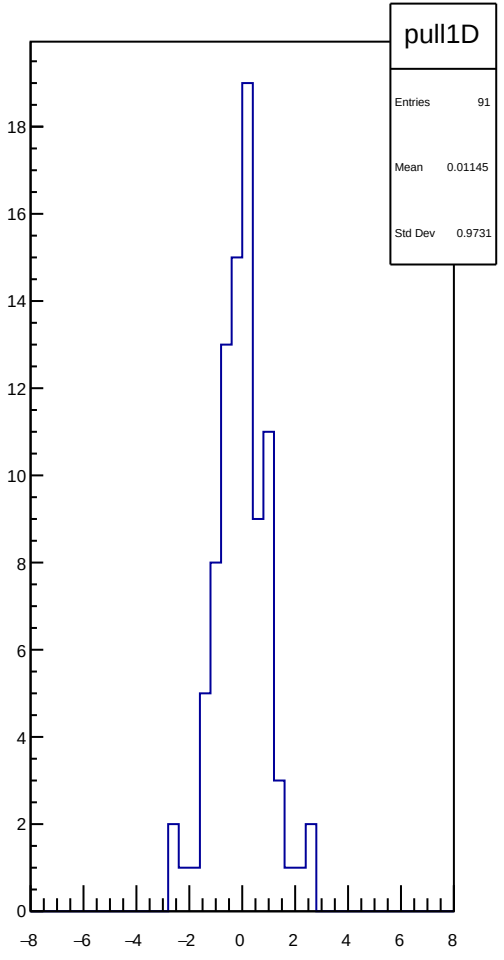

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.111e+05 / 90
p0 113.3 ± 0.08854
250
200
150
100
50

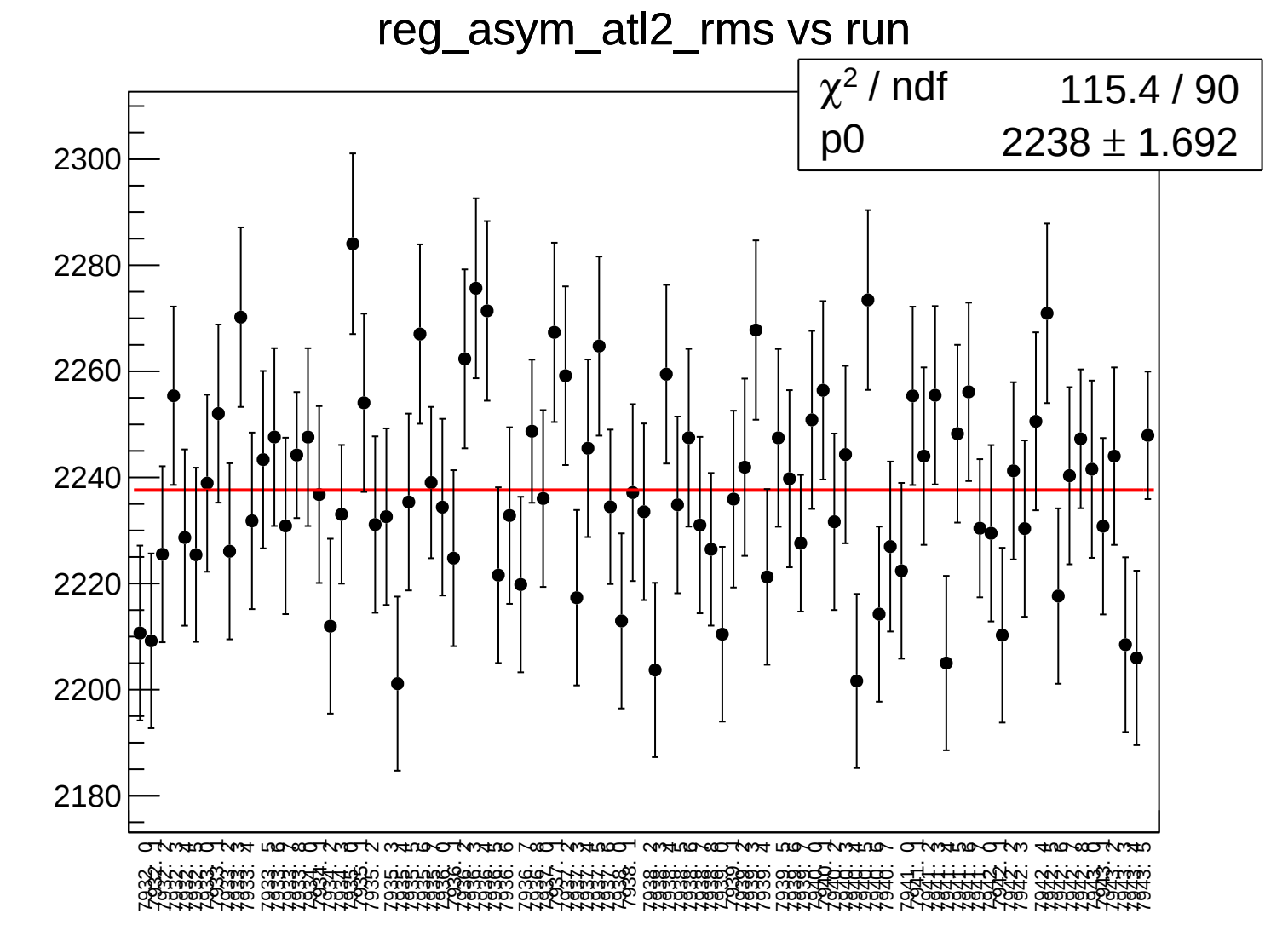

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.21 / 90
p0 3.917e−13 ± 1.184e−13
pull
Entries 91
Mean 493.5
Std Dev 0

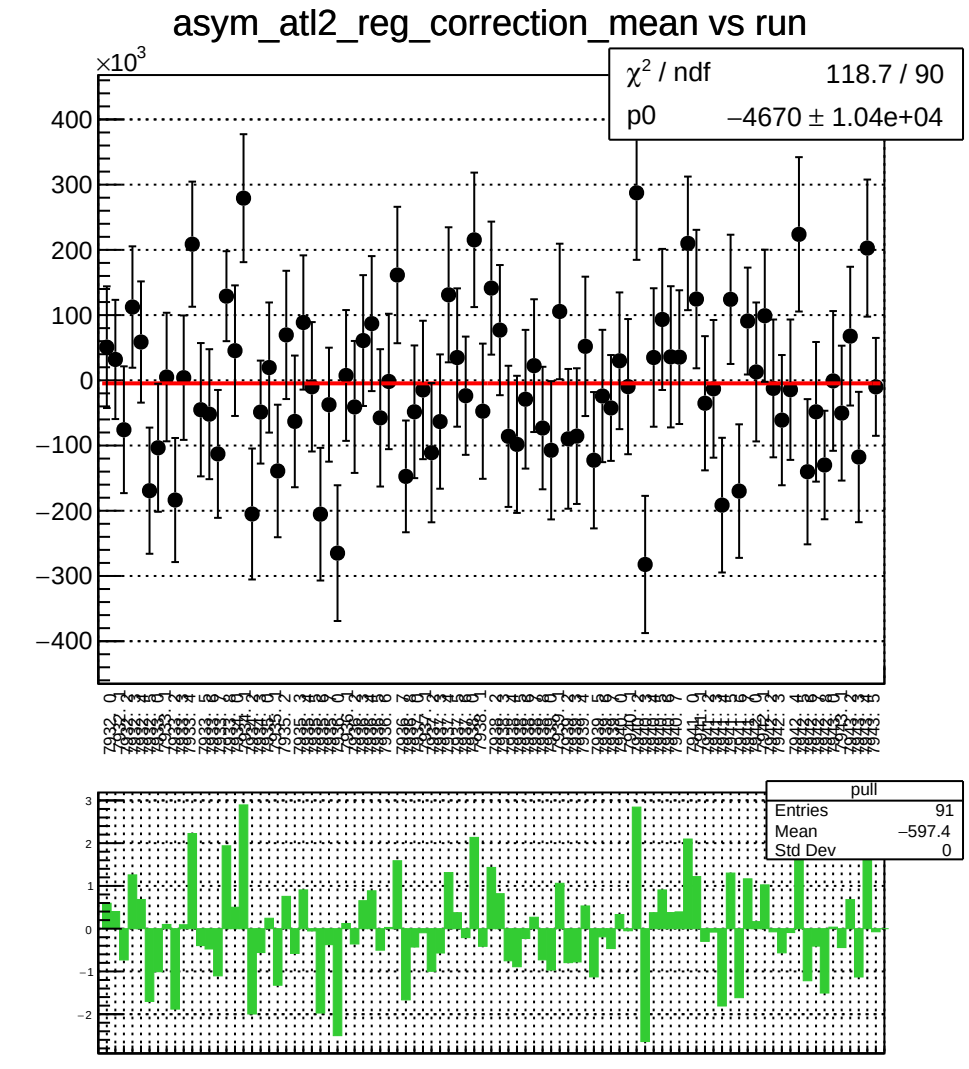

pull1D
Entries 91
Mean −0.008722
Std Dev 1.044

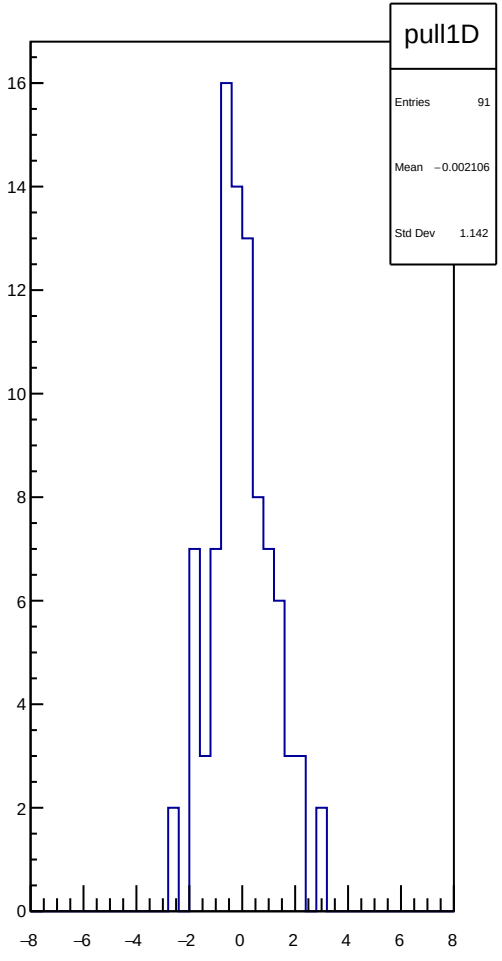

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.025e+05 / 90
p0 8.142e−11 ± 8.372e−14

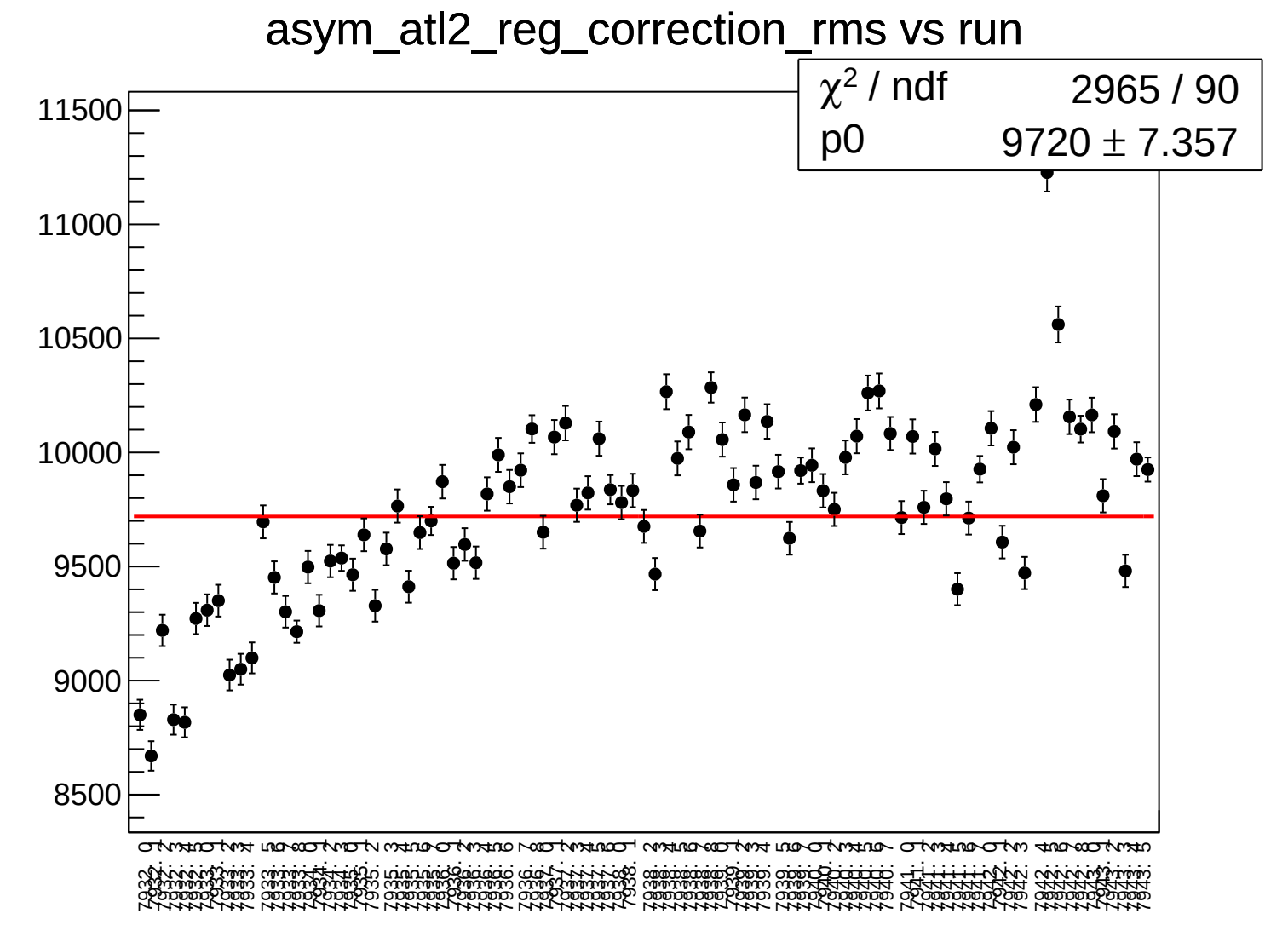

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 86.17 / 90
p0 −4225 ± 2393
pull
Entries 91
Mean 341.3
Std Dev 0

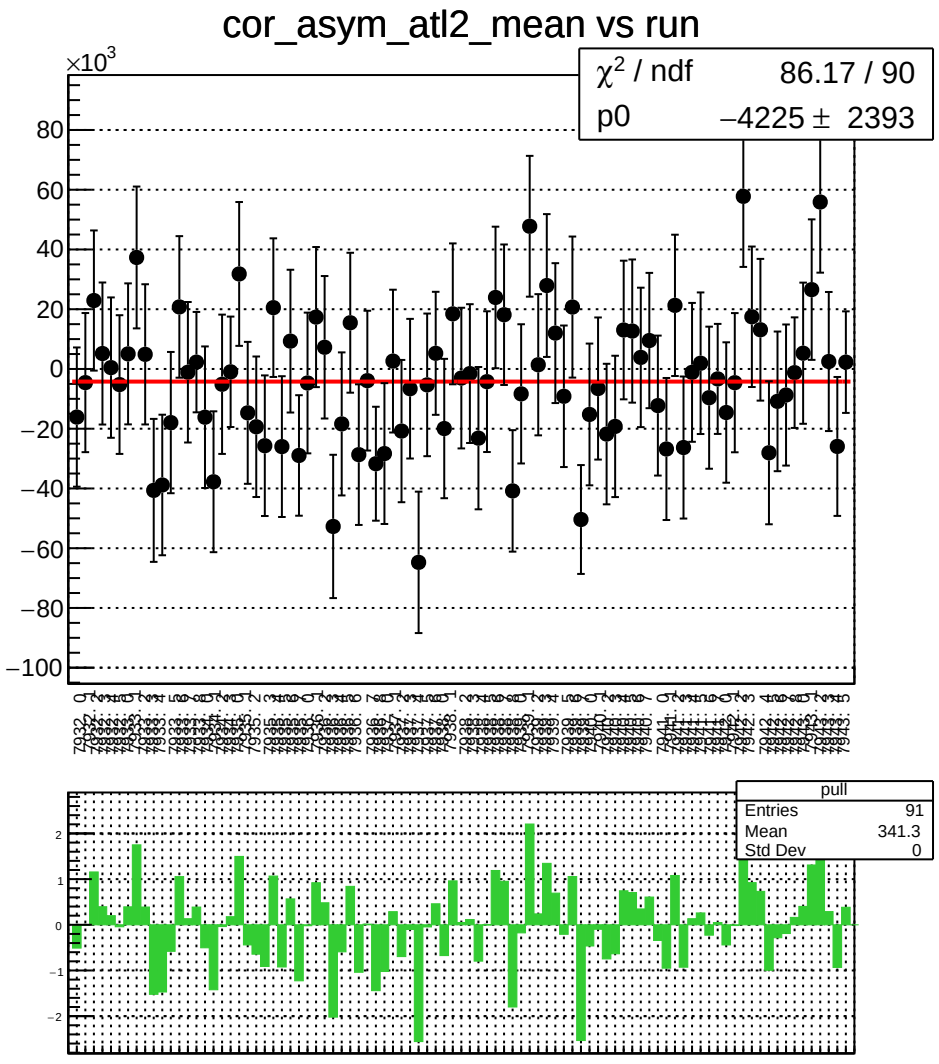

pull1D
Entries 91
Mean 0.01145
Std Dev 0.9731

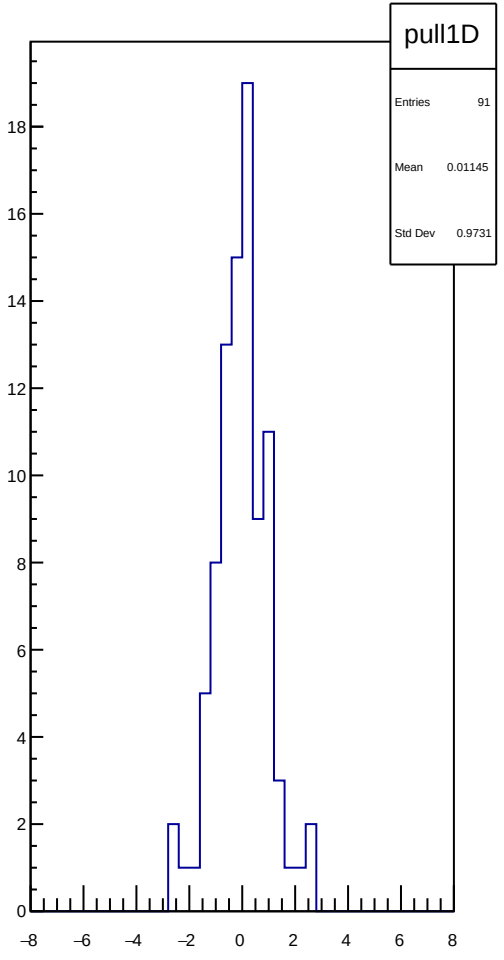

reg_asym_atl2_rms vs run
χ² / ndf 115.4 / 90
p0 2238 ± 1.692
2300
2280
2260
2240
2220
2200
2180

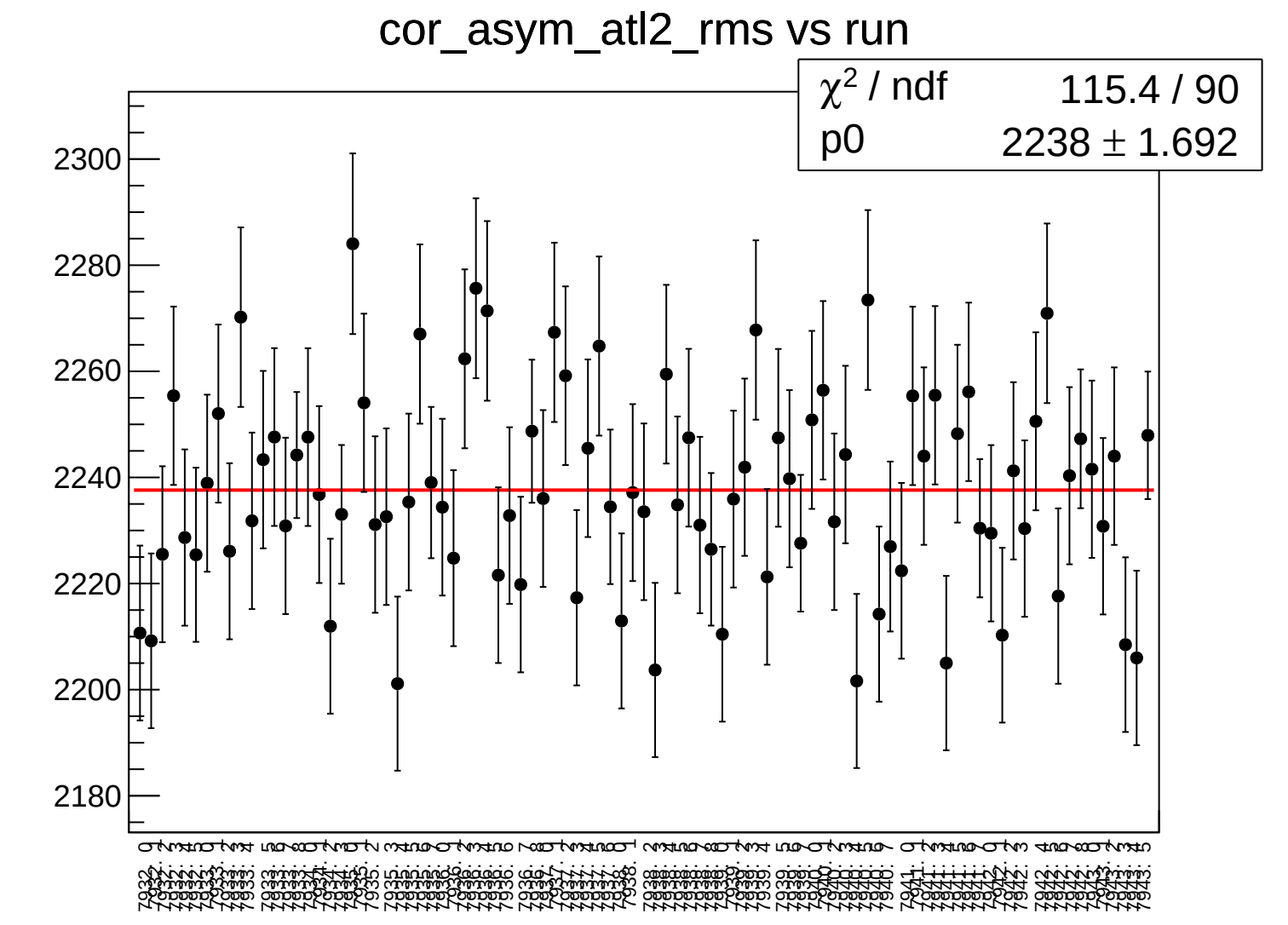

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 118.7 / 90
p0 −4670 ± 1.04e+04
pull
Entries 91
Mean −597.4
Std Dev 0

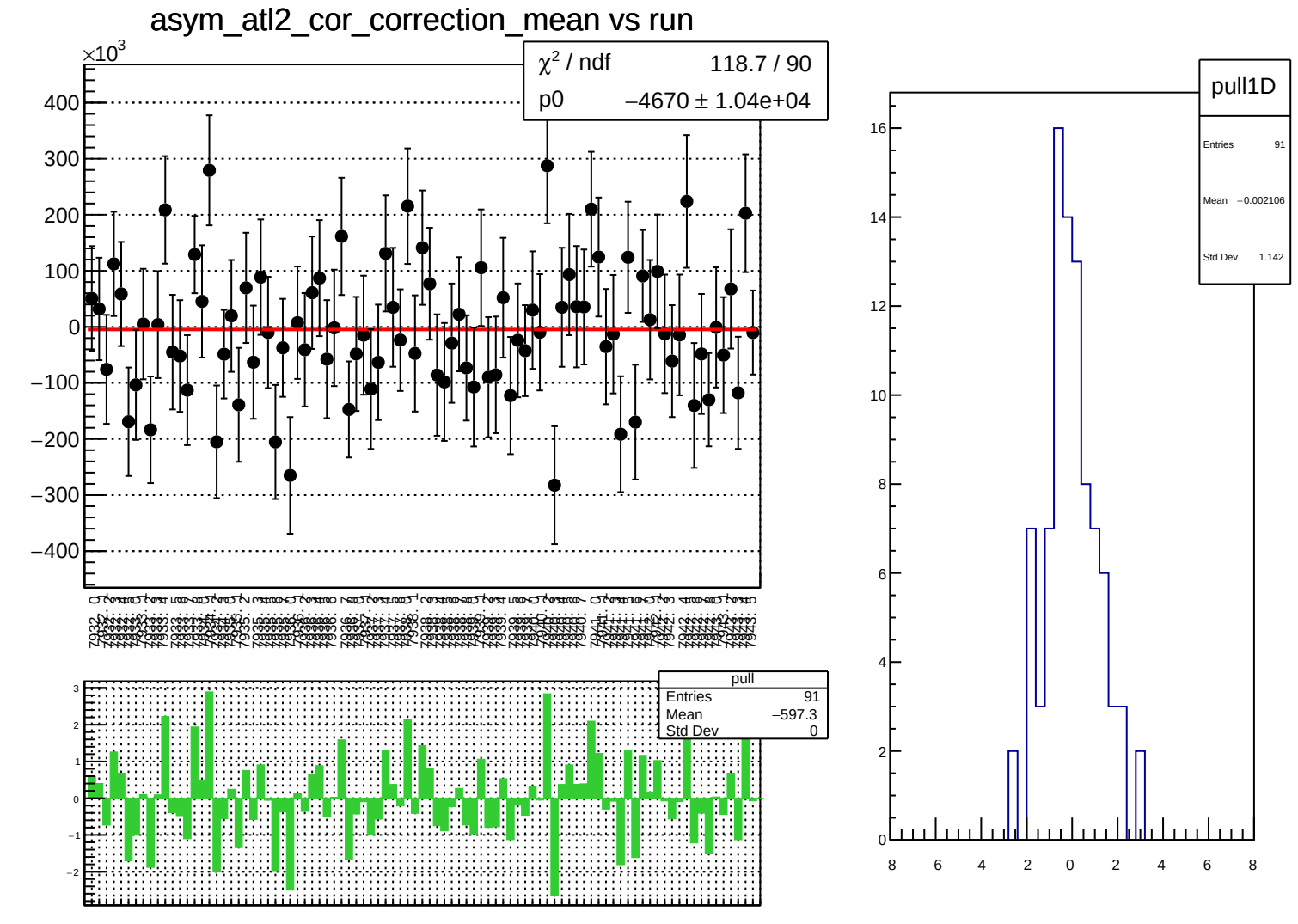

pull1D
Entries 91
Mean −0.002106
Std Dev 1.142

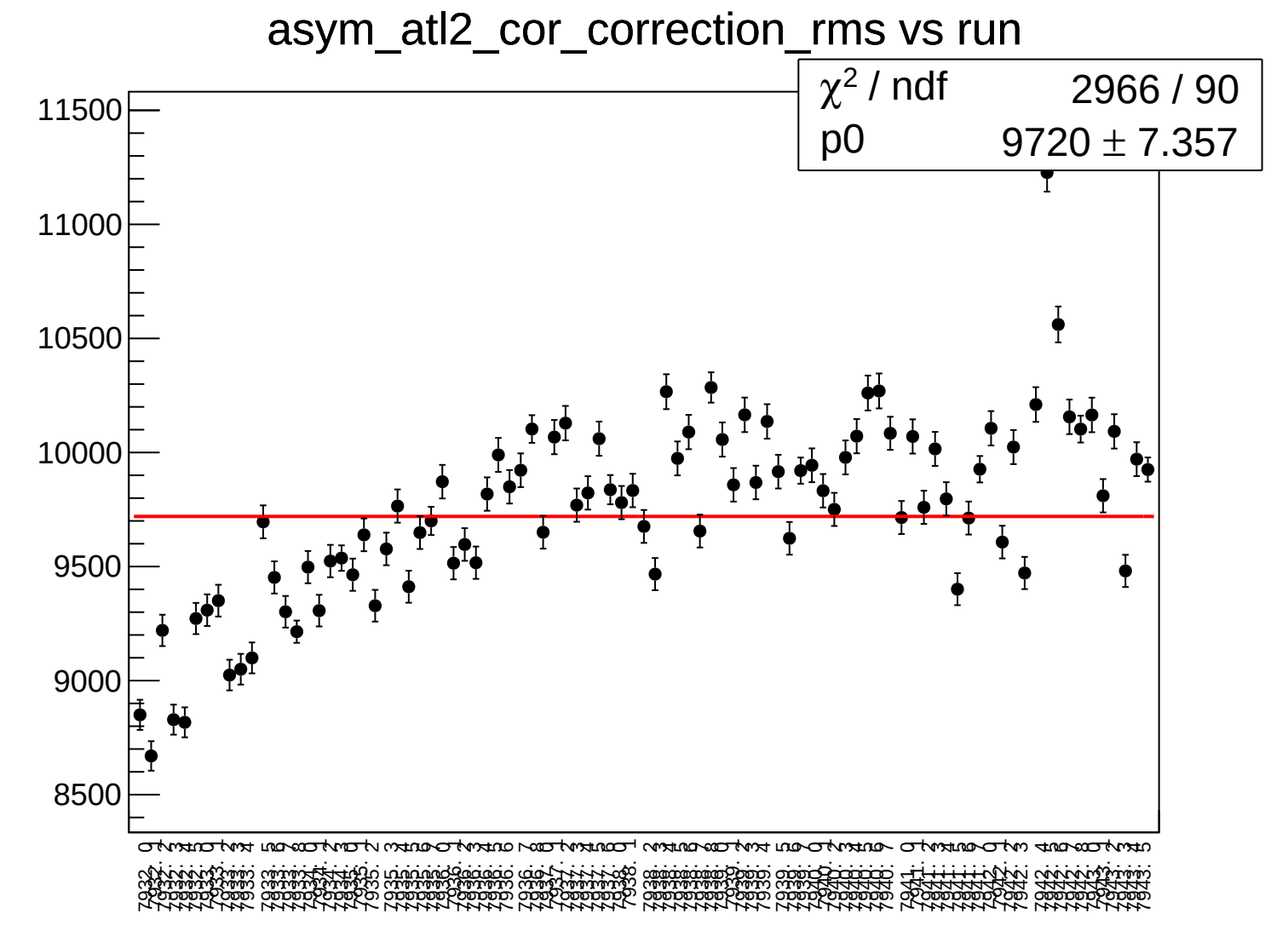

asym_atl2_reg_correction_rms vs run
χ² / ndf 2965 / 90
p0 9720 ± 7.357
11500
11000
10500
10000
9500
9000
8500

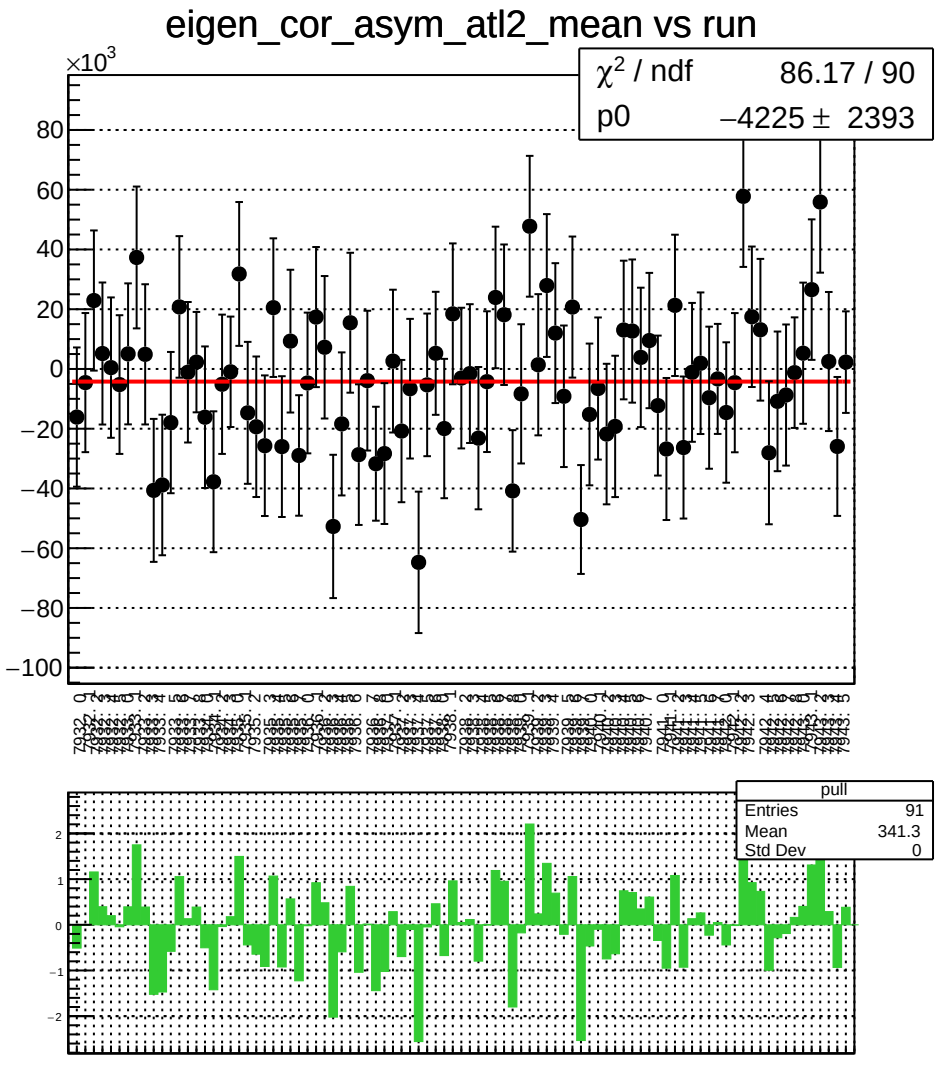

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 86.17 / 90
p0 −4225 ± 2393
pull
Entries 91
Mean 341.3
Std Dev 0

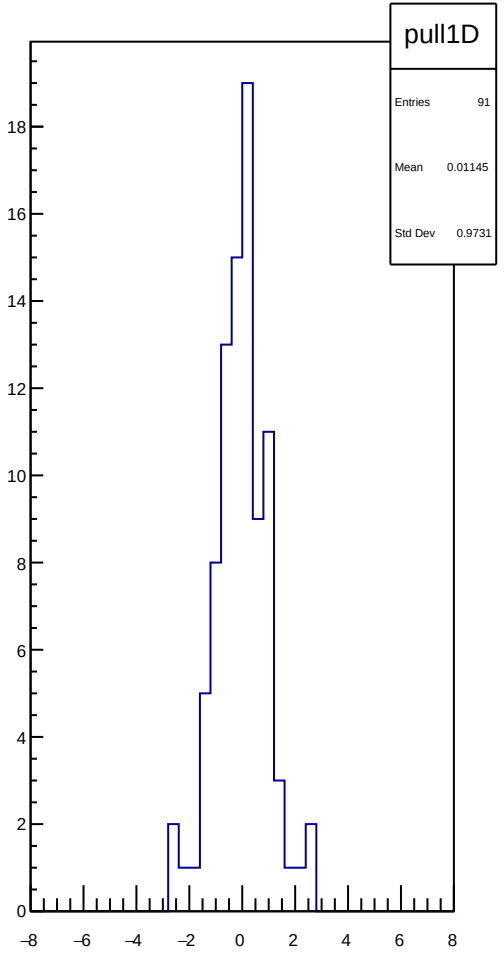

pull1D
Entries 91
Mean 0.01145
Std Dev 0.9731

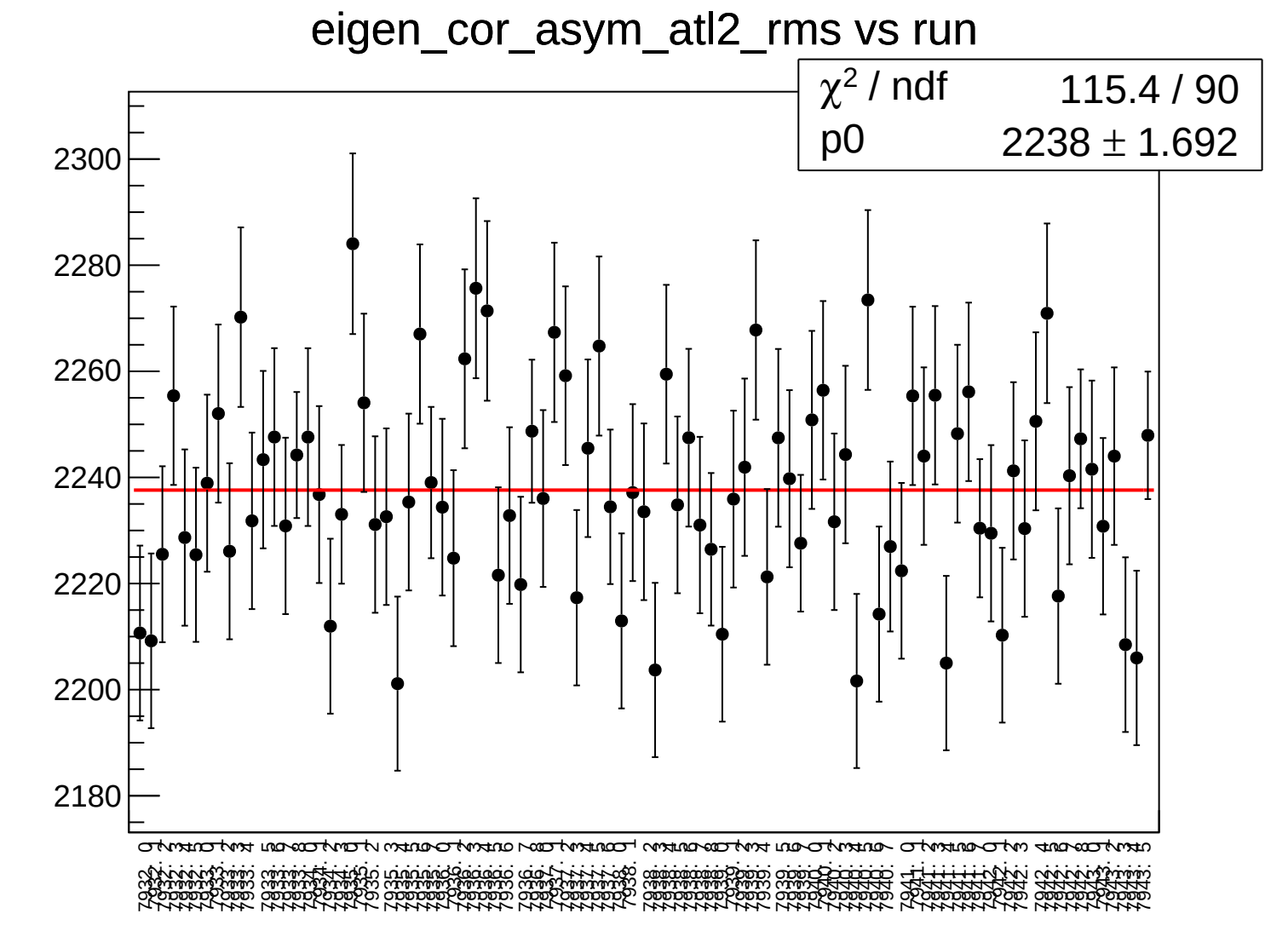

cor_asym_atl2_rms vs run
χ^2 / ndf 115.4 / 90
p0 2238 ± 1.692
2300
2280
2260
2240
2220
2200
2180

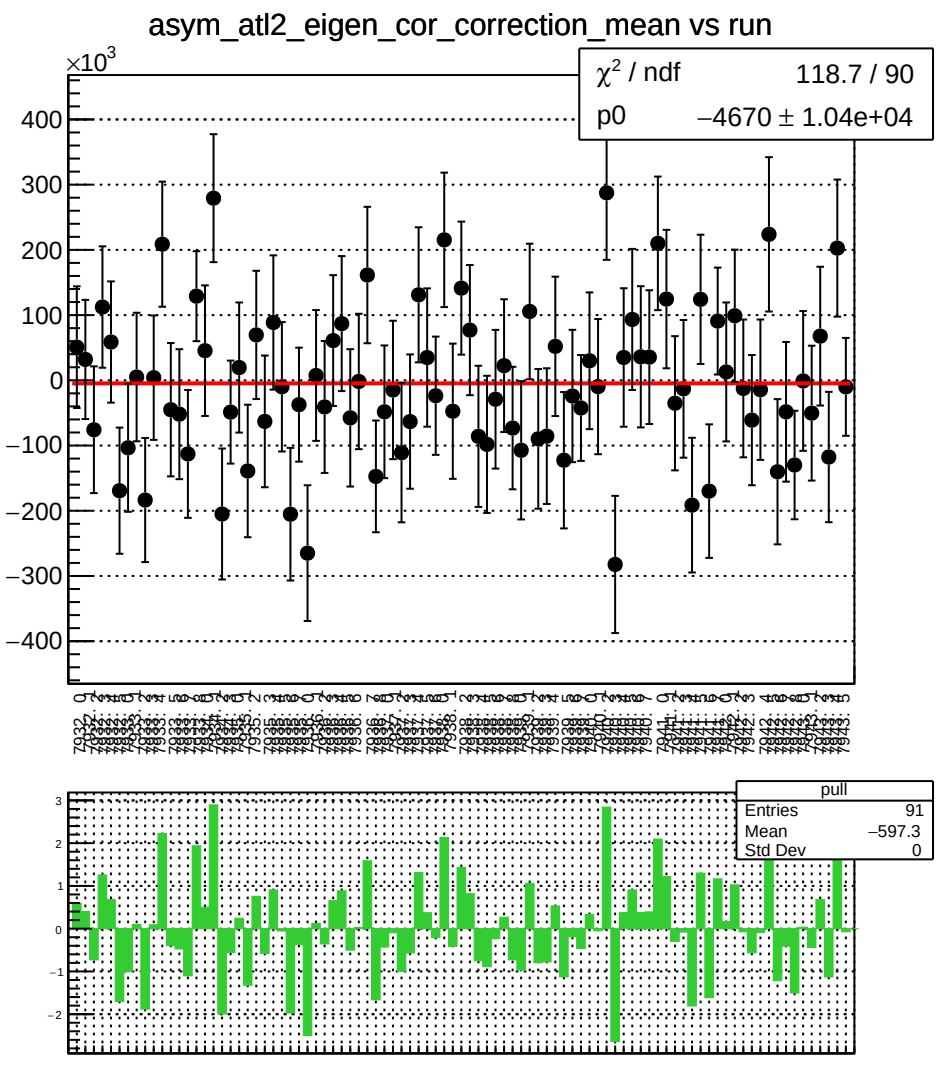

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 118.7 / 90
p0 −4670 ± 1.04e+04
pull
Entries 91
Mean −597.3
Std Dev 0
pull1D
Entries 91
Mean −0.002106
Std Dev 1.142

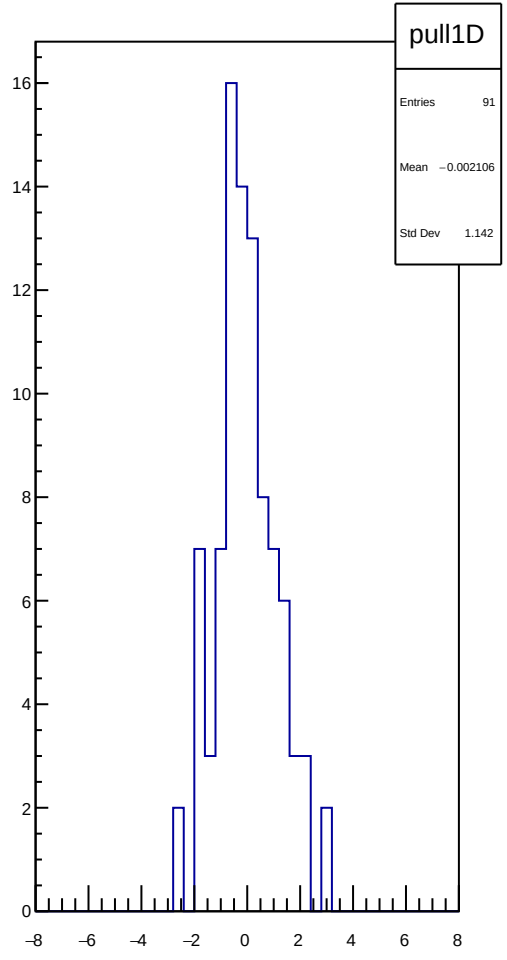

asym_atl2_cor_correction_rms vs run
χ² / ndf 2966 / 90
p0 9720 ± 7.357
11500
11000
10500
10000
9500
9000
8500

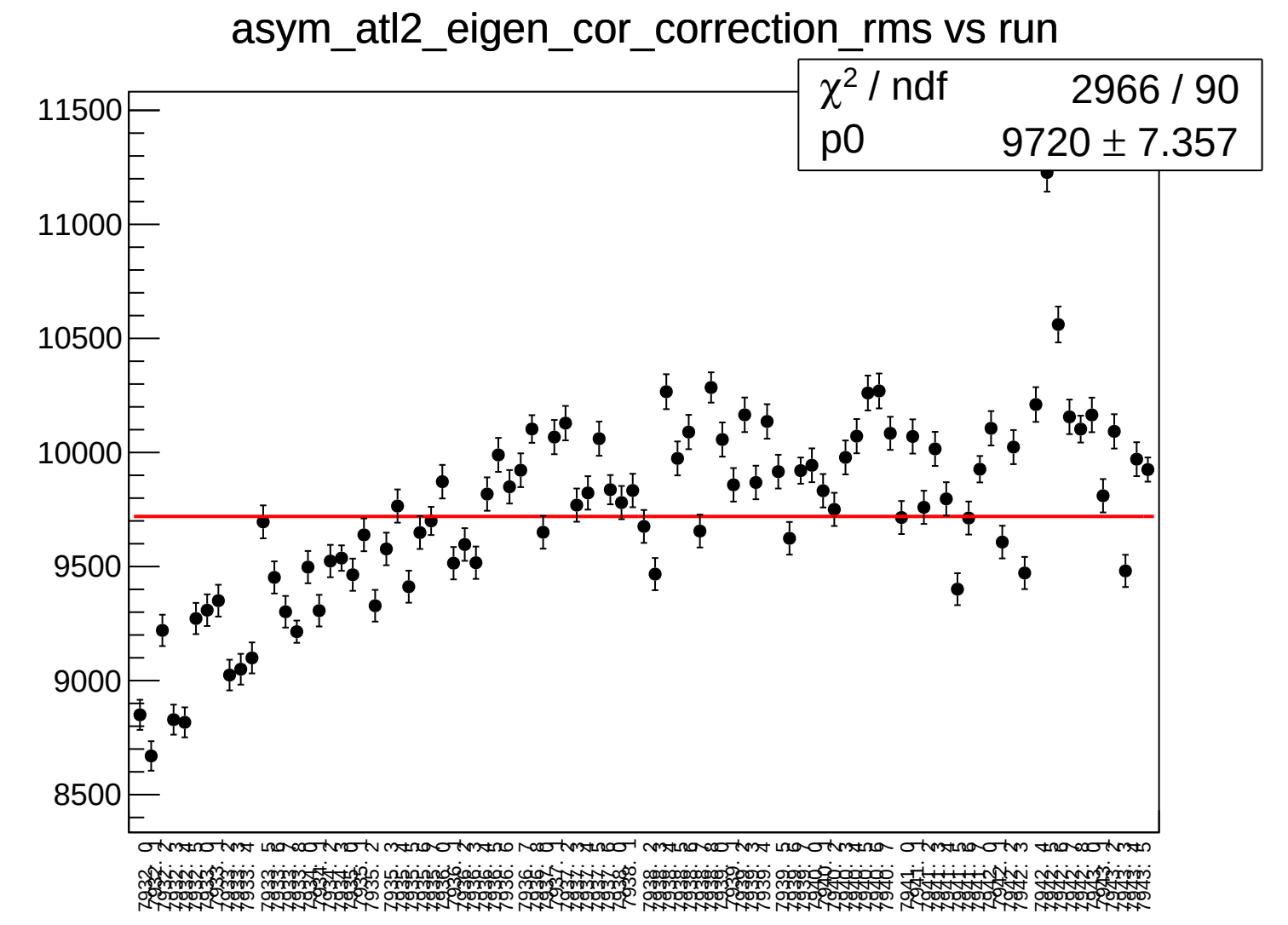

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 86.17 / 90
p0 −4225 ± 2393
pull
Entries 91
Mean 341.3
Std Dev 0

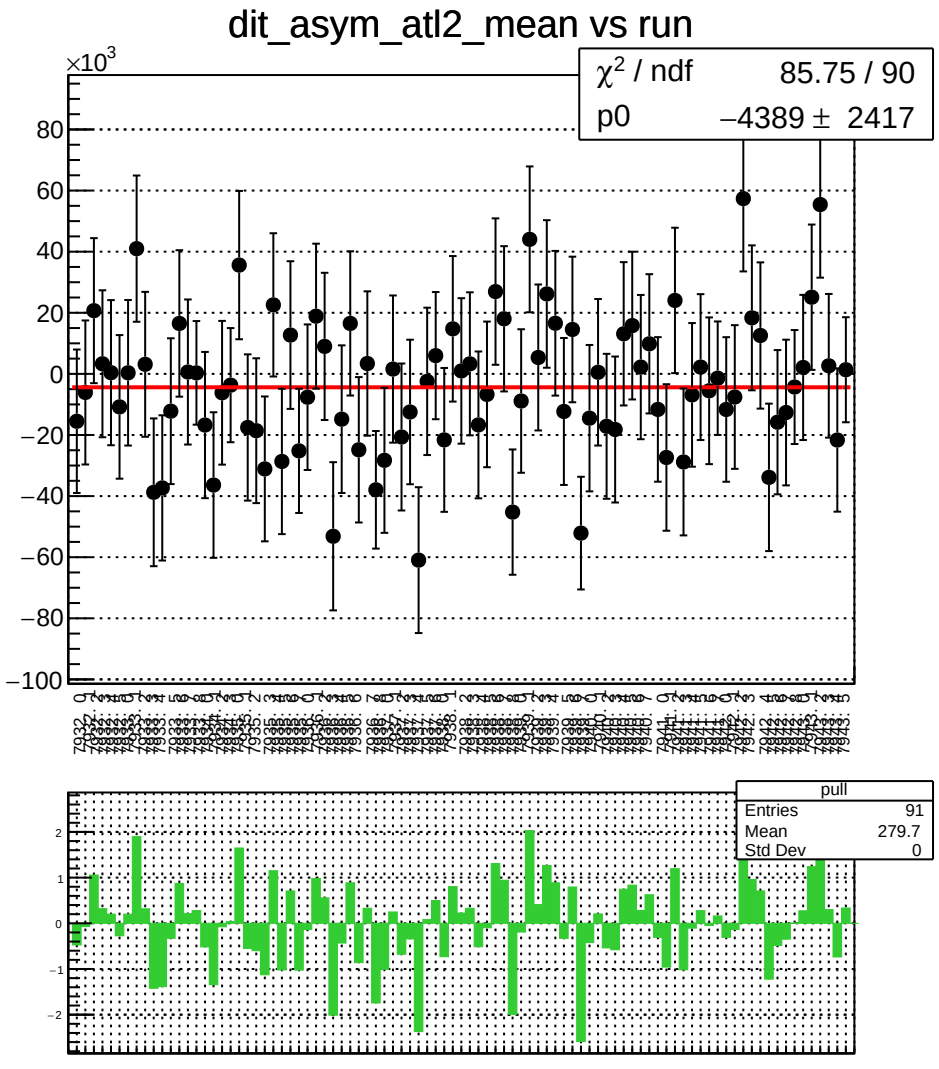

pull1D
Entries 91
Mean 0.01145
Std Dev 0.9731

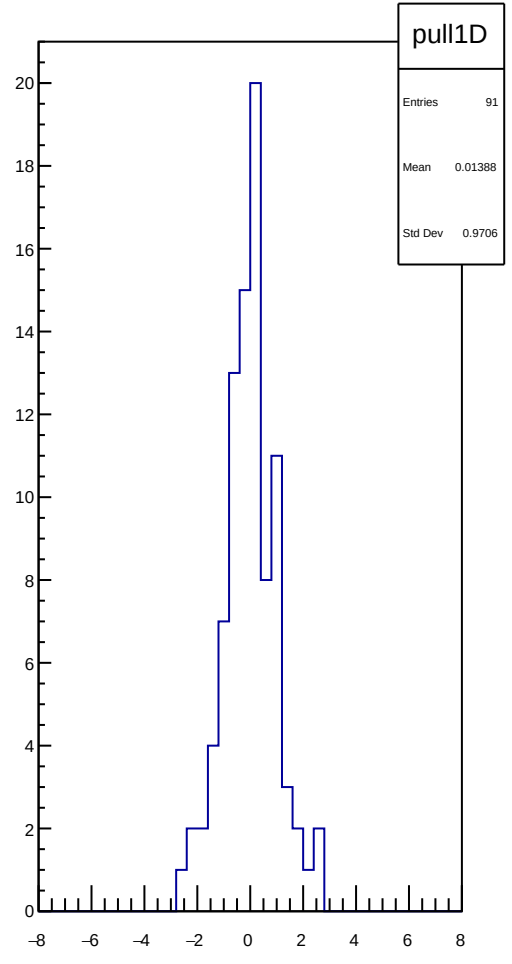

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 115.4 / 90
p0 2238 ± 1.692
2300
2280
2260
2240
2220
2200
2180

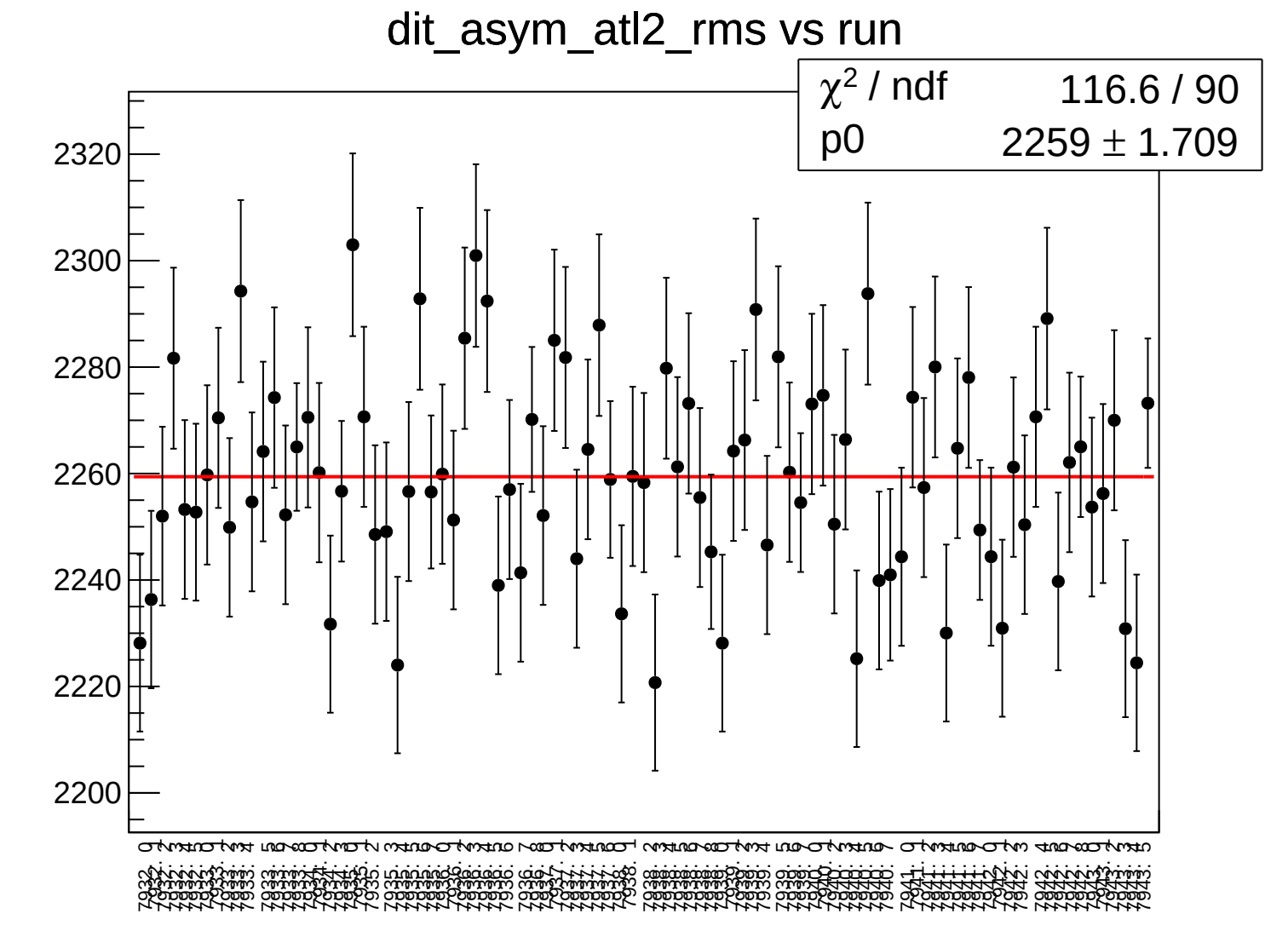

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 118.7 / 90
p0 −4670 ± 1.04e+04
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean −597.3
Std Dev 0
3
2
1
0
−1
−2

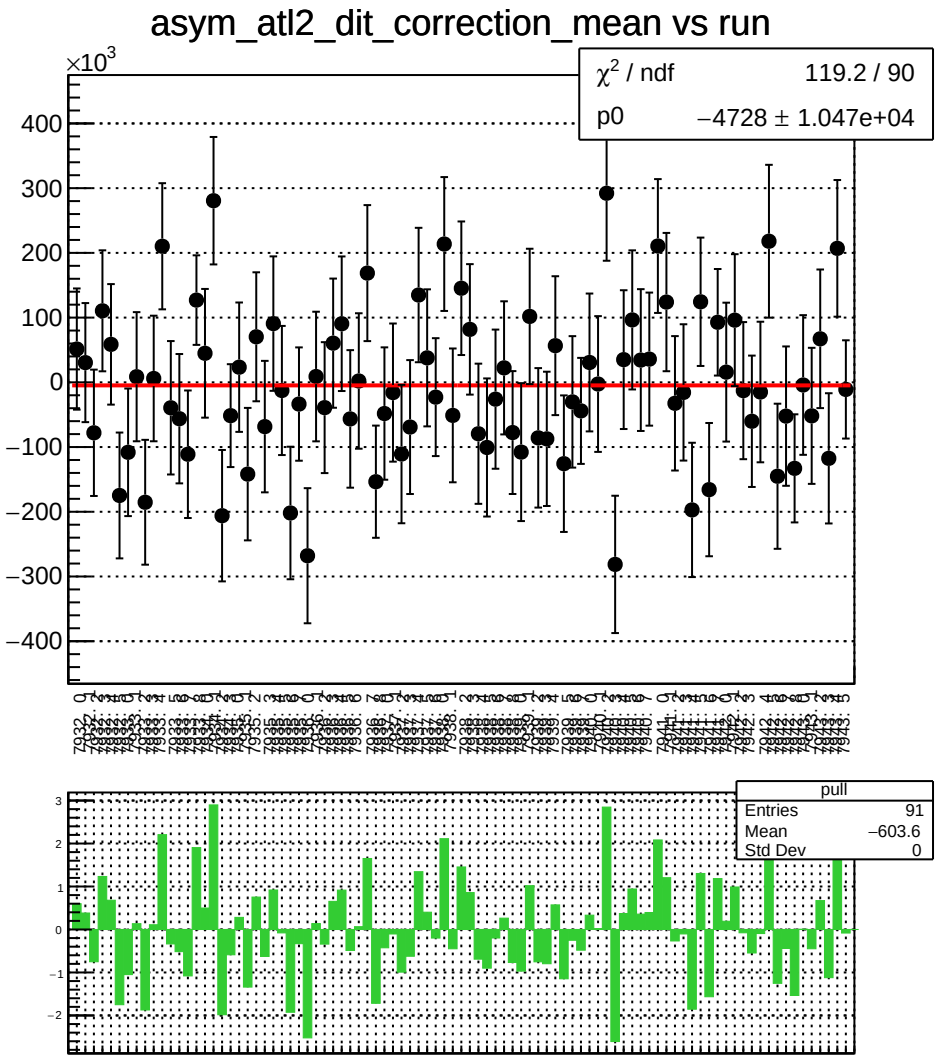

pull1D
Entries 91
Mean −0.002106
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

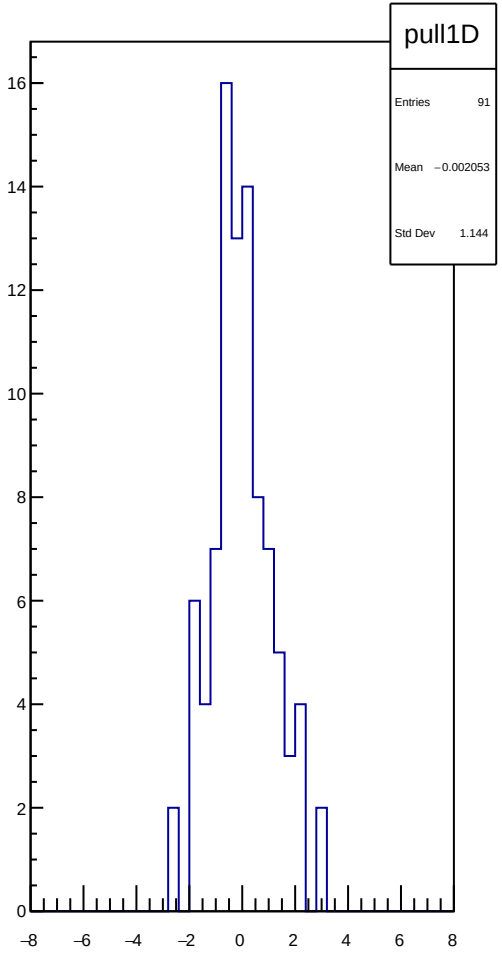

asym_atl2_eigen_cor_correction_rms vs run
χ^2 / ndf 2966 / 90
p0 9720 ± 7.357
11500
11000
10500
10000
9500
9000
8500

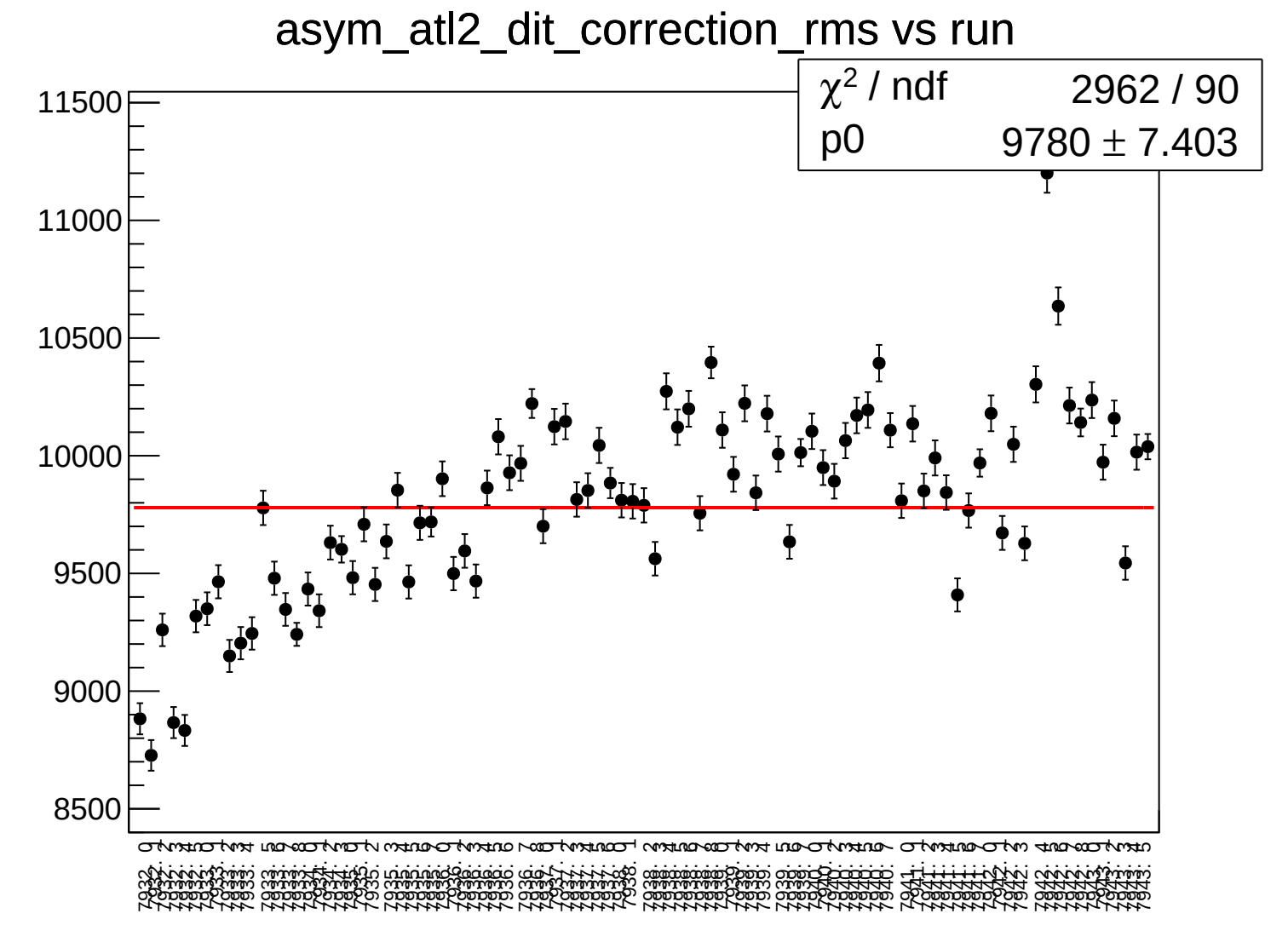

dit_asym_atl2_mean vs run
χ^2 / ndf 85.75 / 90
p0 −4389 ± 2417
×10^3
pull
Entries 91
Mean 279.7
Std Dev 0

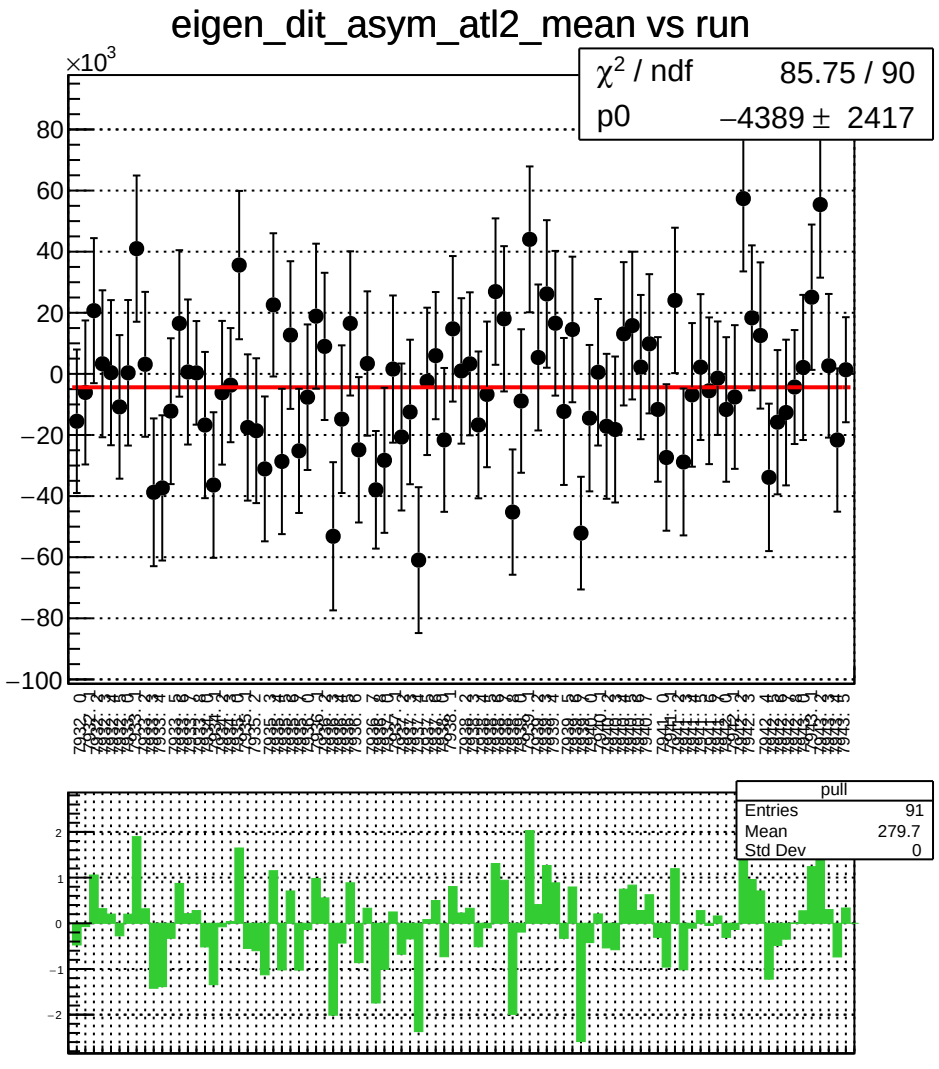

pull1D
Entries 91
Mean 0.01388
Std Dev 0.9706

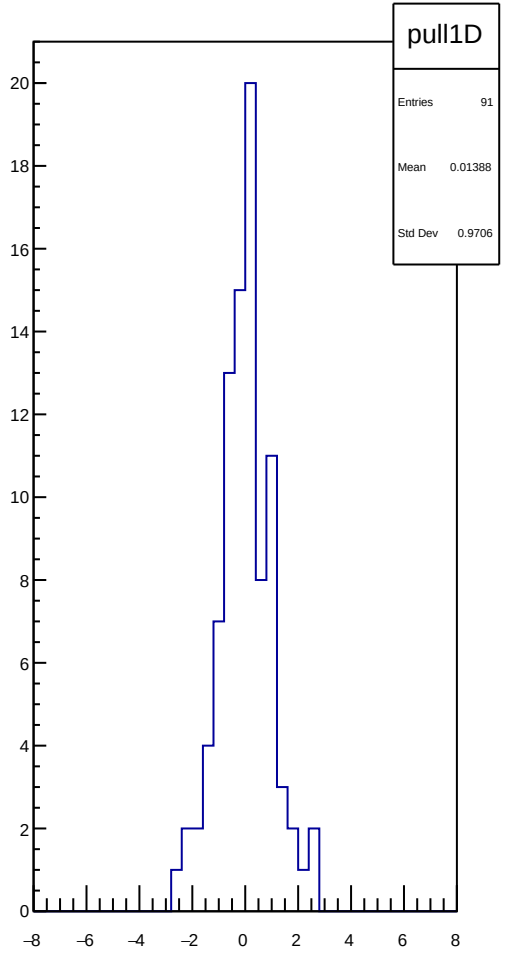

dit_asym_atl2_rms vs run
χ^2 / ndf 116.6 / 90
p0 2259 ± 1.709
2320
2300
2280
2260
2240
2220
2200

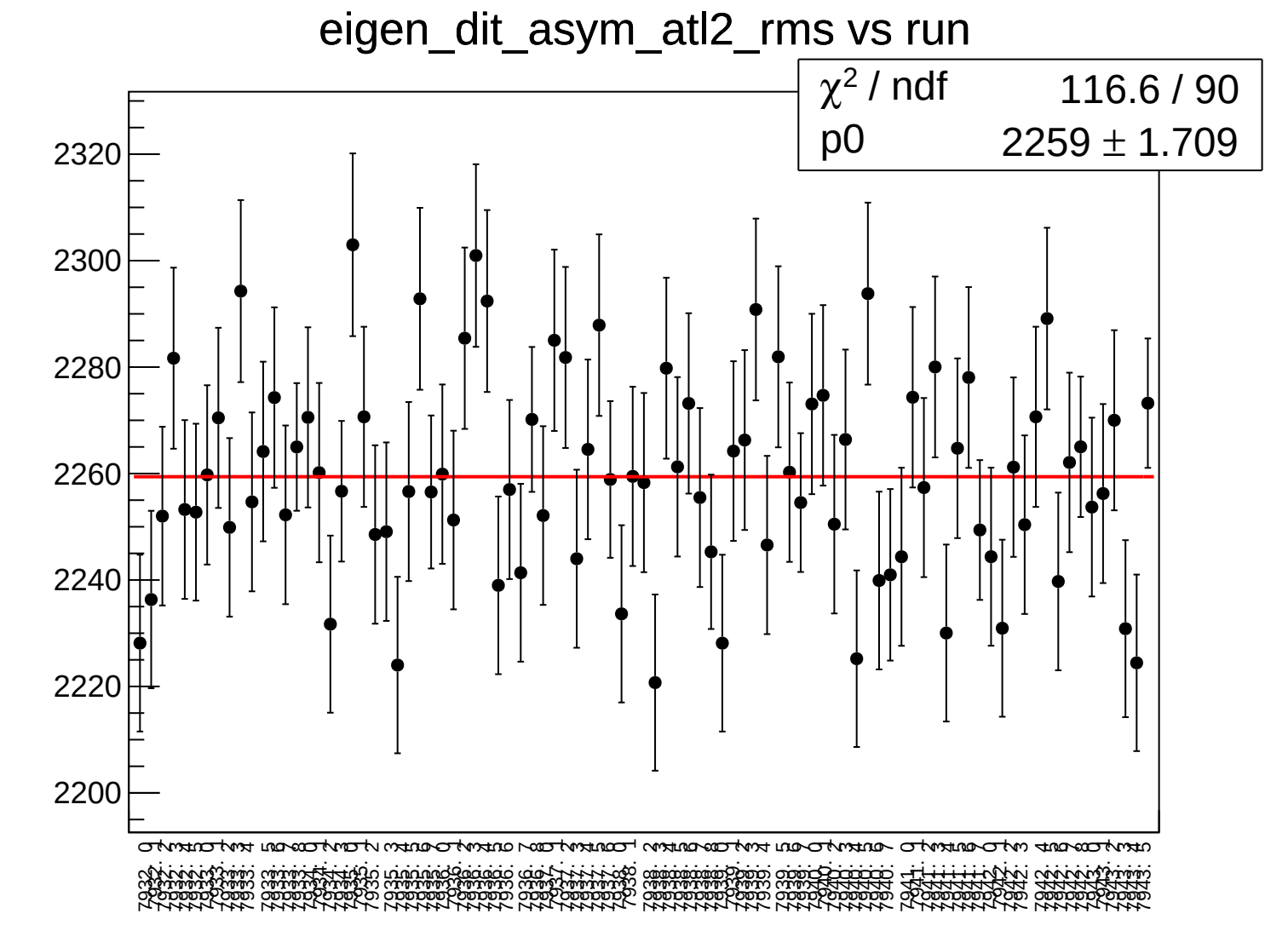

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 119.2 / 90
p0 −4728 ± 1.047e+04
pull
Entries 91
Mean −603.6
Std Dev 0

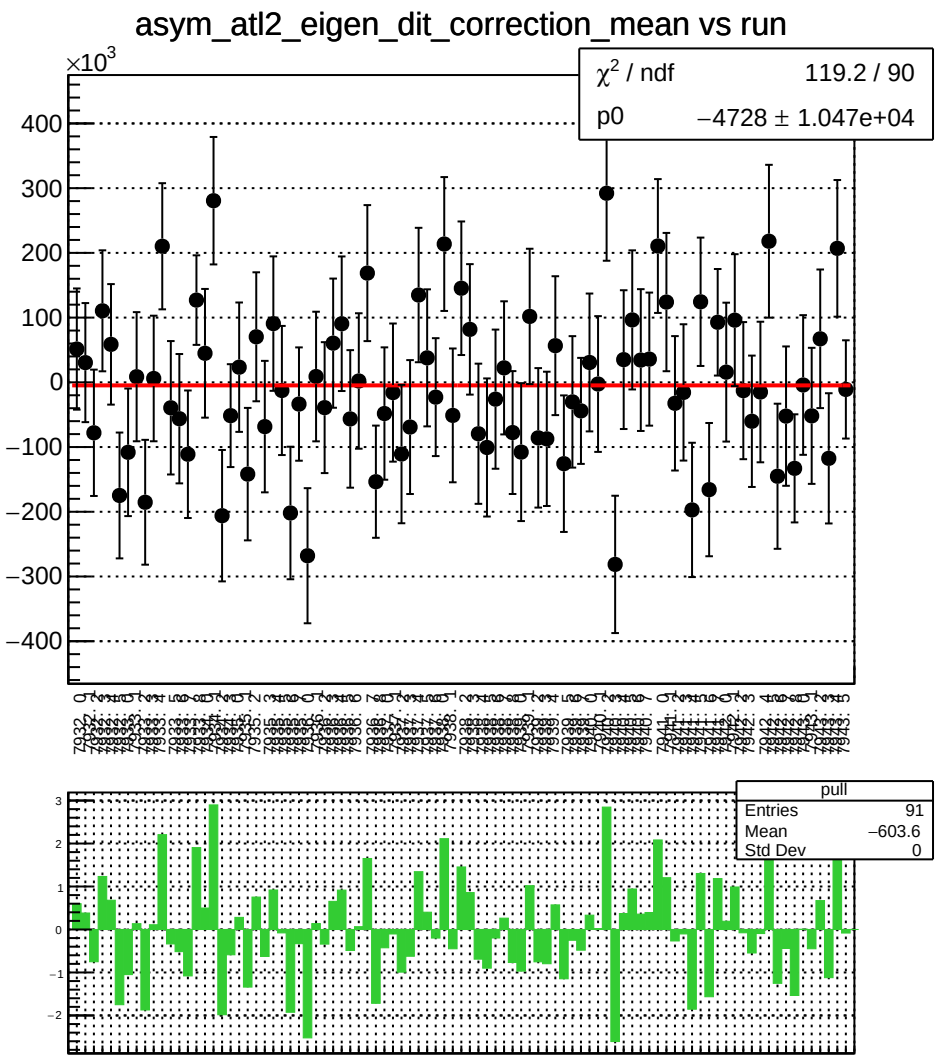

pull1D
Entries 91
Mean −0.002053
Std Dev 1.144

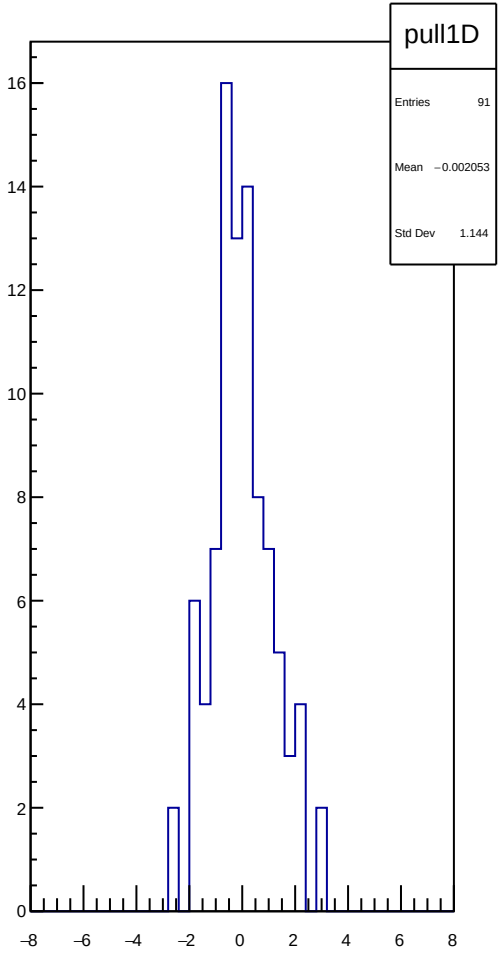

asym_atl2_dit_correction_rms vs run
χ^2 / ndf 2962 / 90
p0 9780 ± 7.403
11500
11000
10500
10000
9500
9000
8500

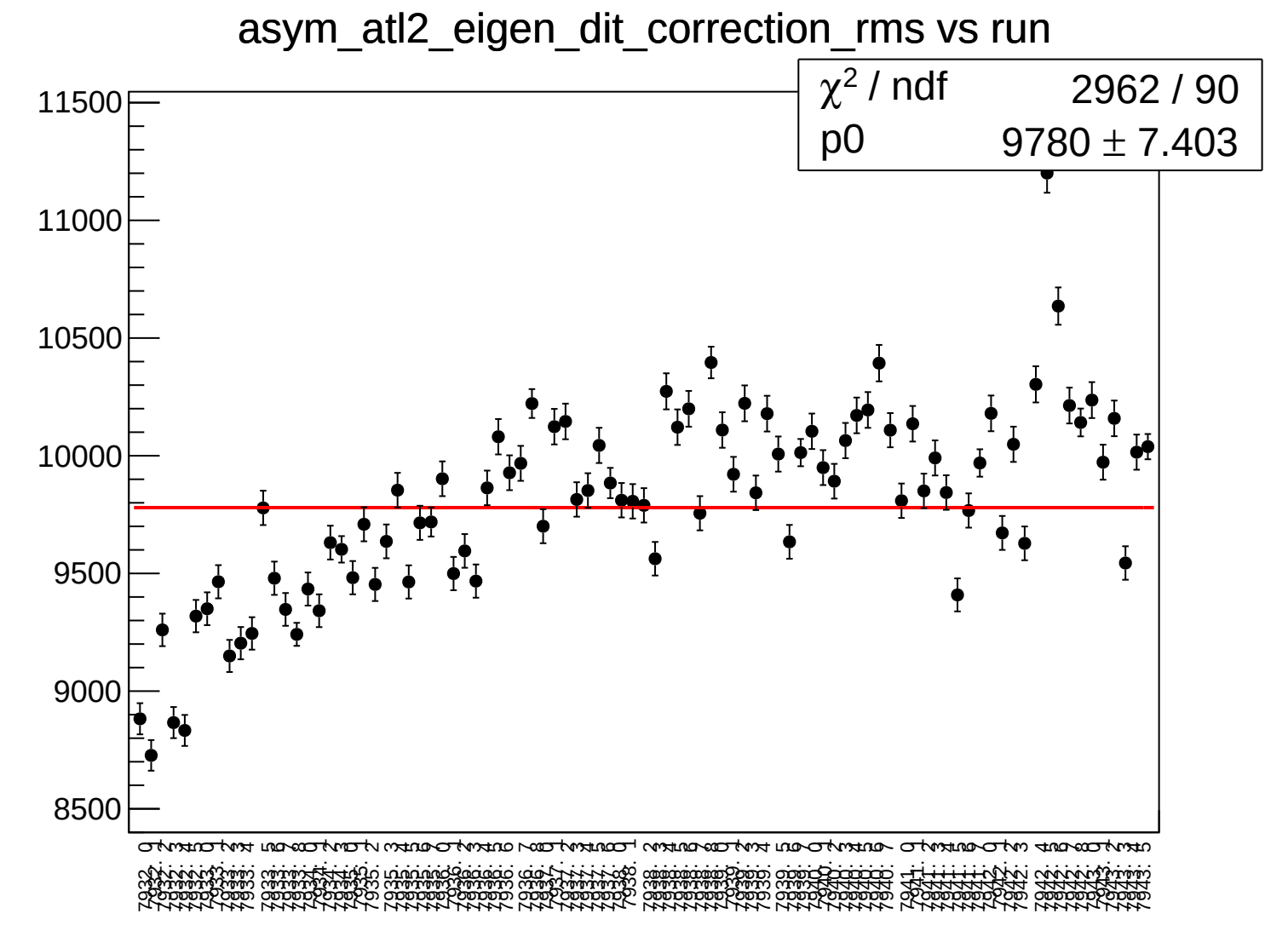

eigen_dit_asym_atl2_mean vs run
χ² / ndf 85.75 / 90
p0 −4389 ± 2417
pull
Entries 91
Mean 279.7
Std Dev 0

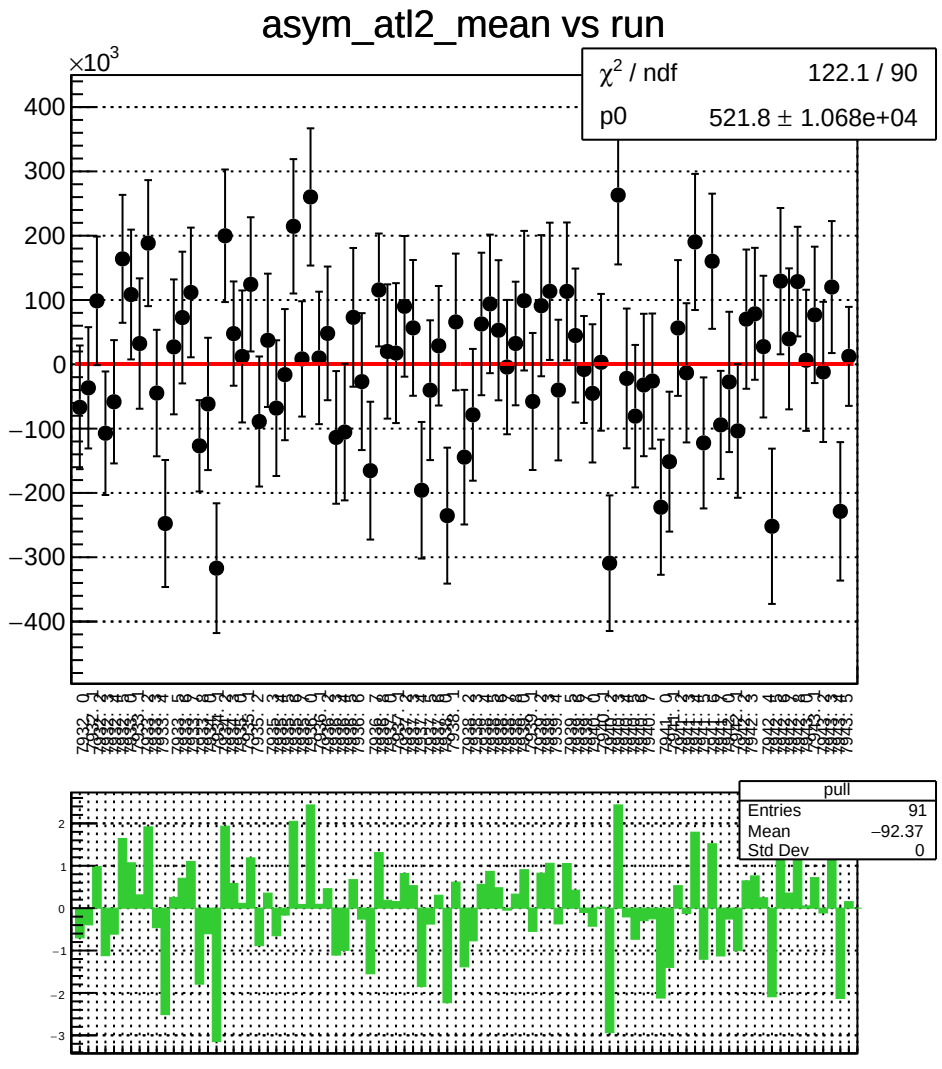

pull1D
Entries 91
Mean 0.01388
Std Dev 0.9706

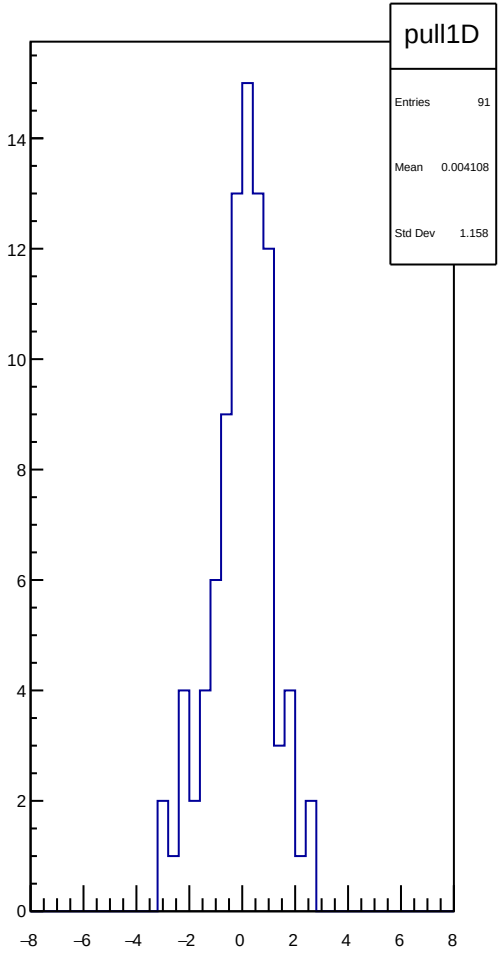

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 116.6 / 90
p0 2259 ± 1.709
2320
2300
2280
2260
2240
2220
2200

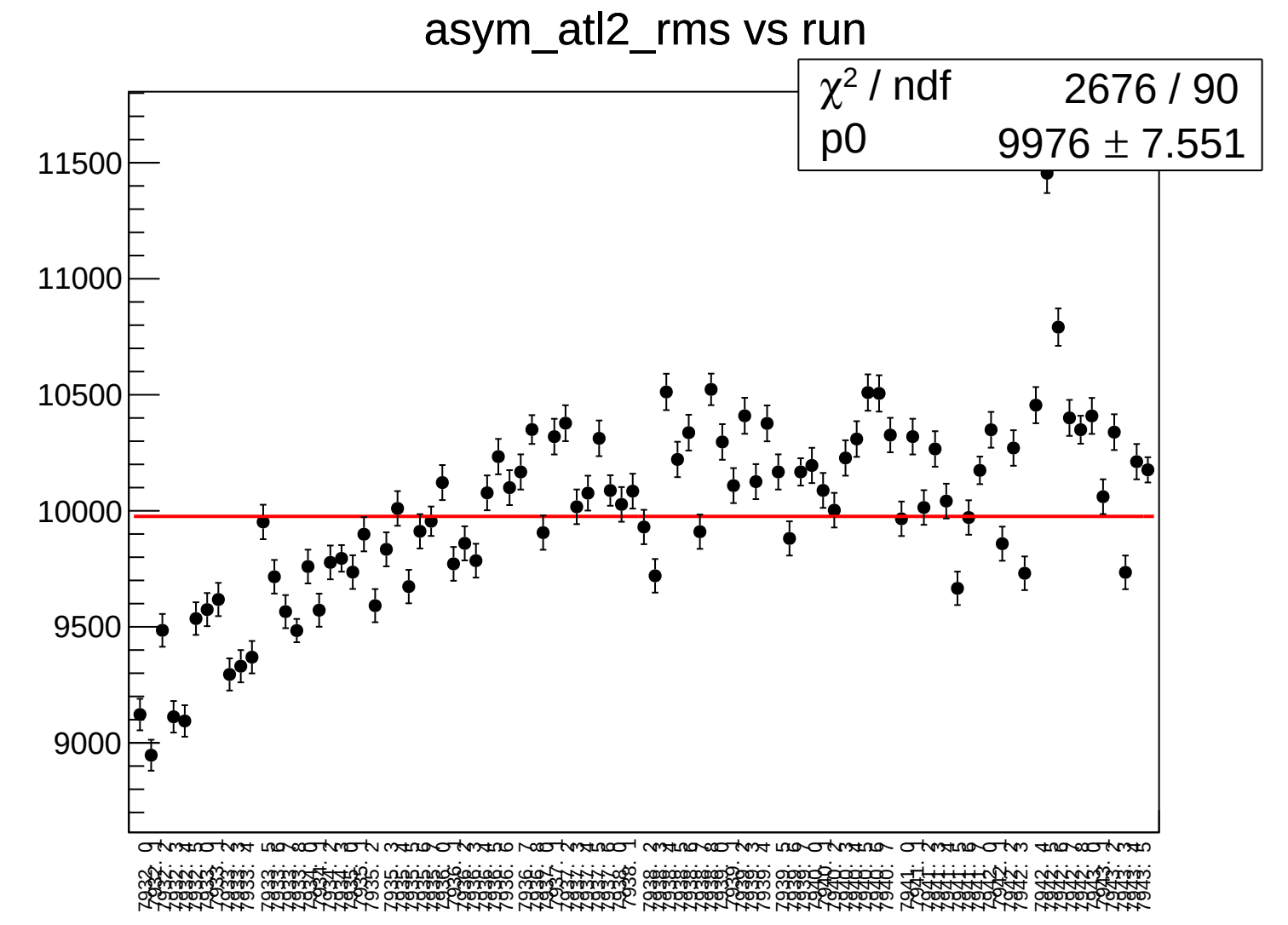

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 119.2 / 90
p0 −4728 ± 1.047e+04
pull
Entries 91
Mean −603.6
Std Dev 0

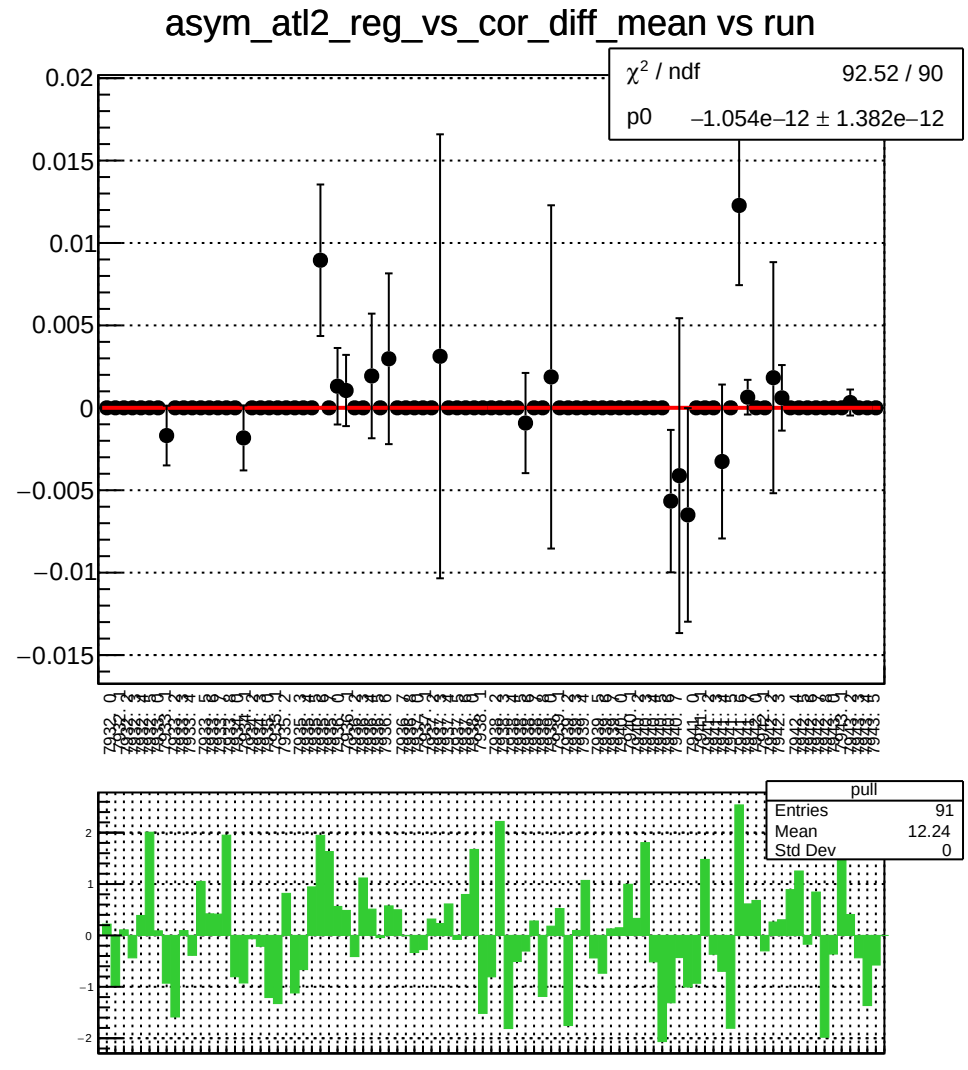

pull1D
Entries 91
Mean −0.002053
Std Dev 1.144

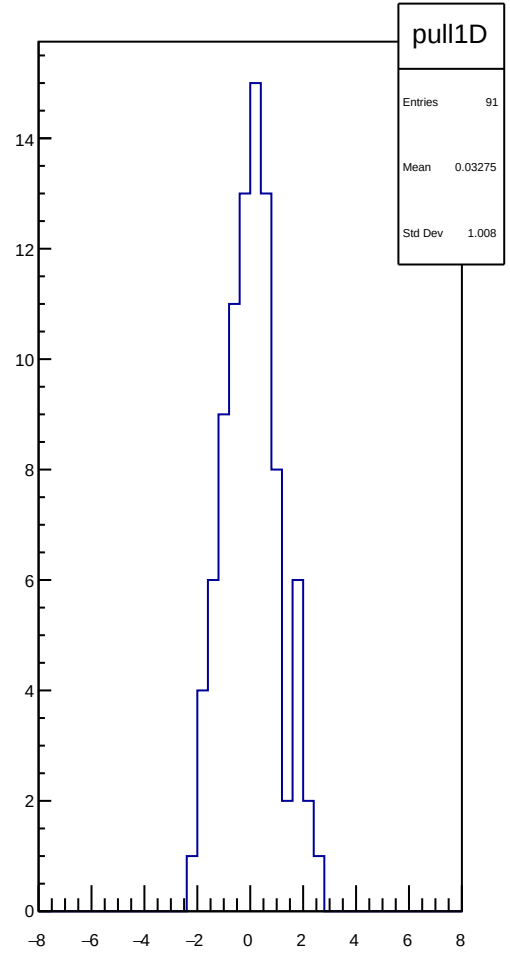

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2962 / 90
p0 9780 ± 7.403
11500
11000
10500
10000
9500
9000
8500

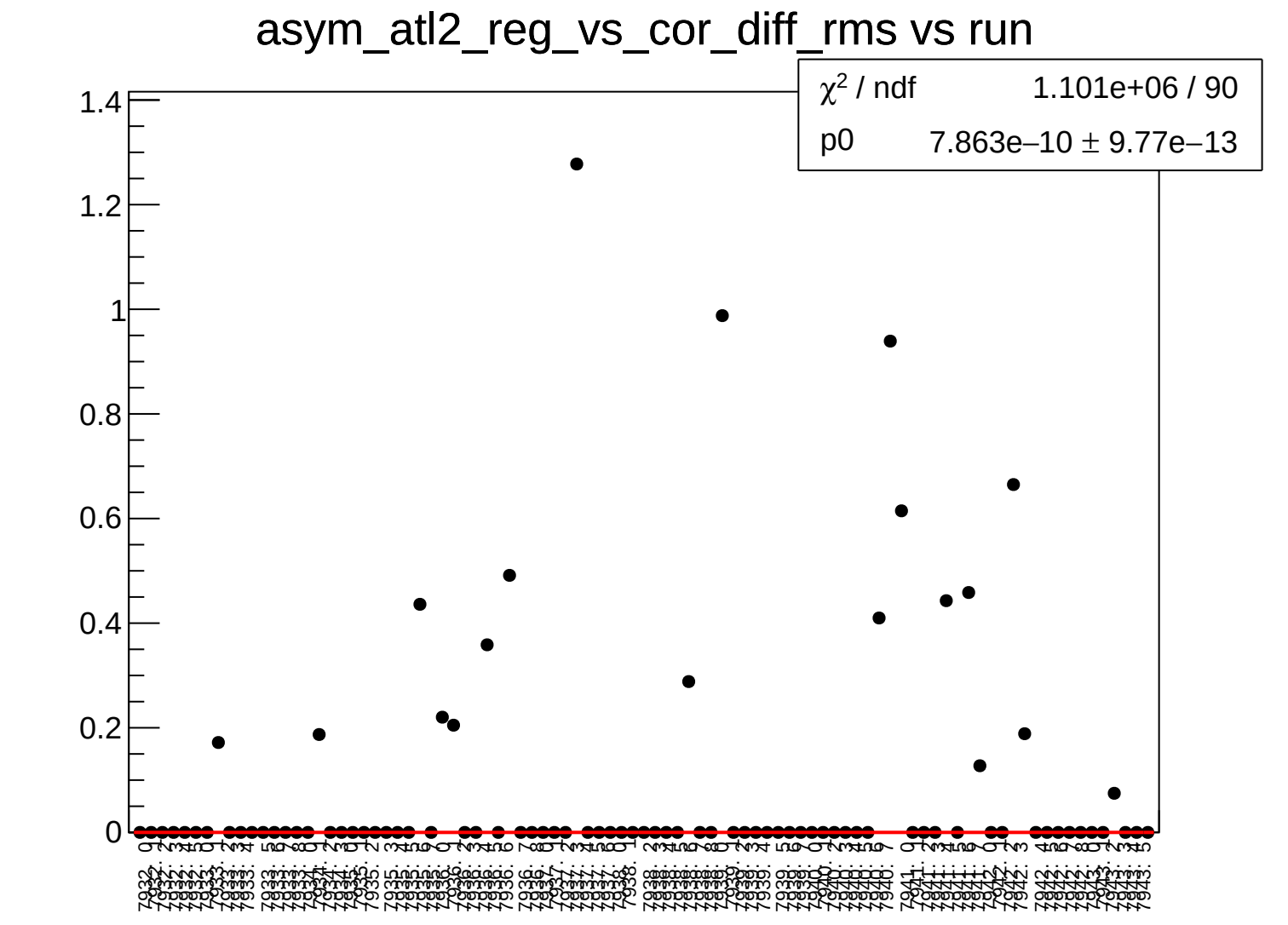

asym_atl2_mean vs run
×10^3
χ² / ndf 122.1 / 90
p0 521.8 ± 1.068e+04
pull
Entries 91
Mean −92.37
Std Dev 0

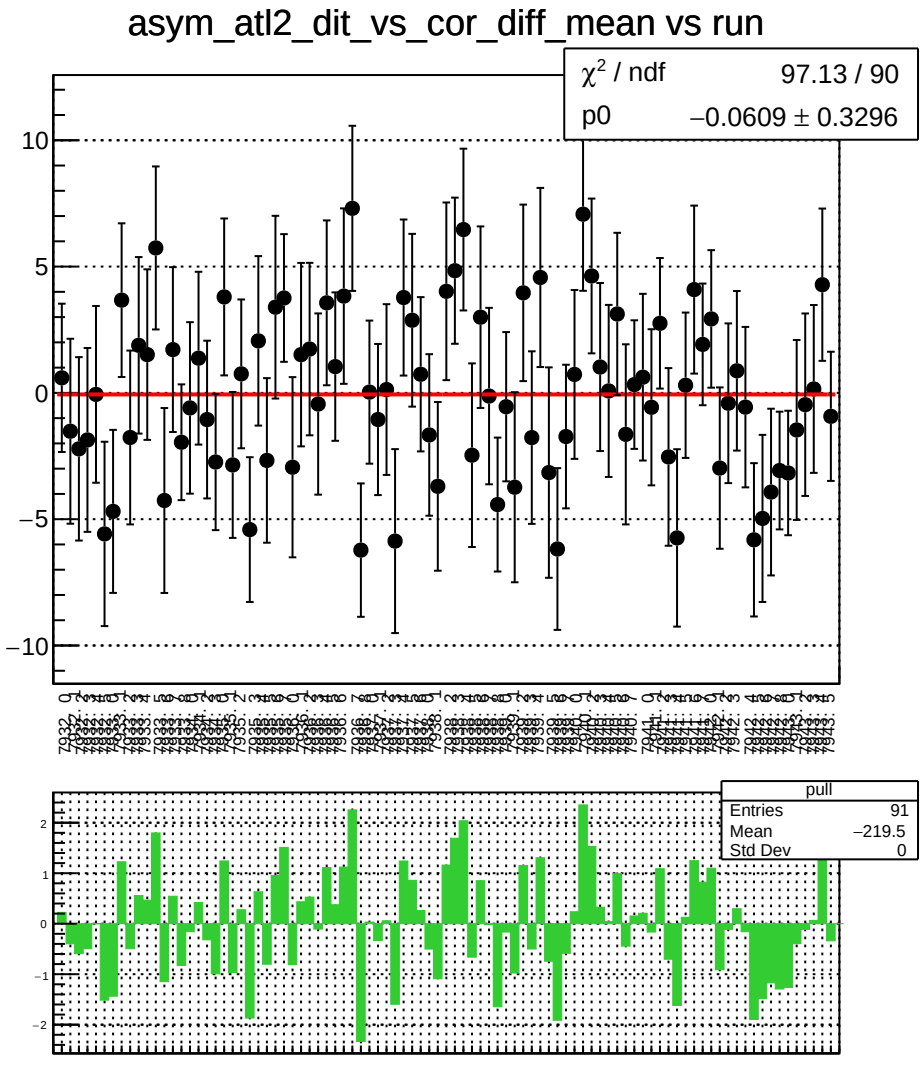

pull1D
Entries 91
Mean 0.004108
Std Dev 1.158

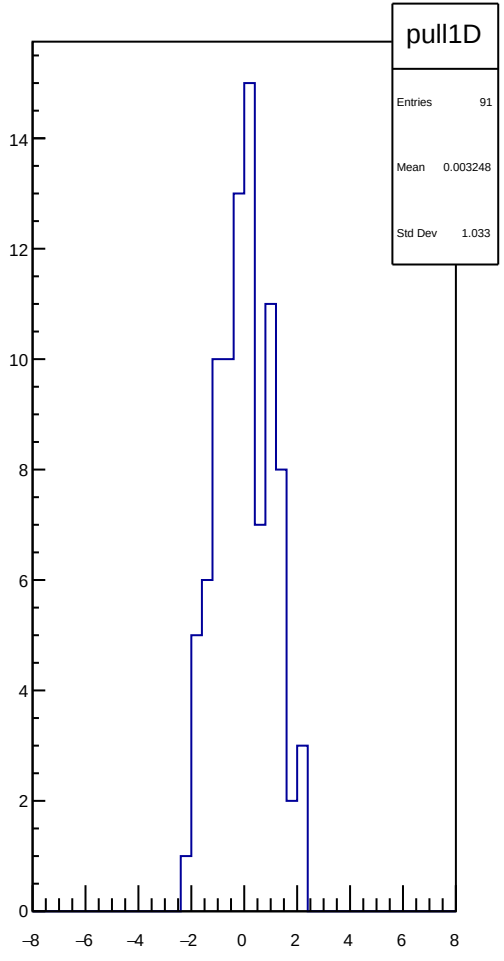

asym_atl2_rms vs run
χ² / ndf 2676 / 90
p0 9976 ± 7.551
11500
11000
10500
10000
9500
9000

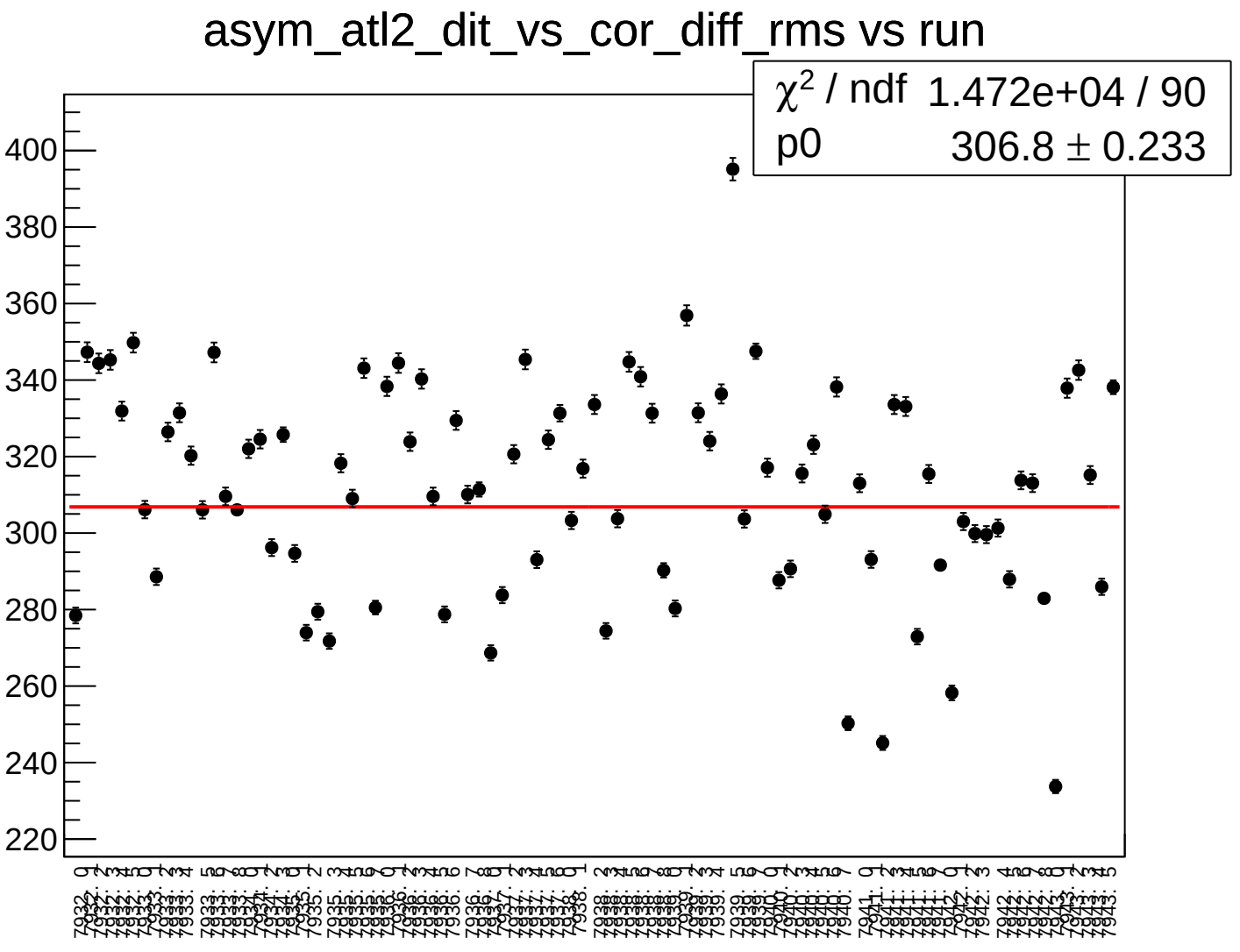

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 90
p0 −1.054e−12 ± 1.382e−12
pull
Entries 91
Mean 12.24
Std Dev 0

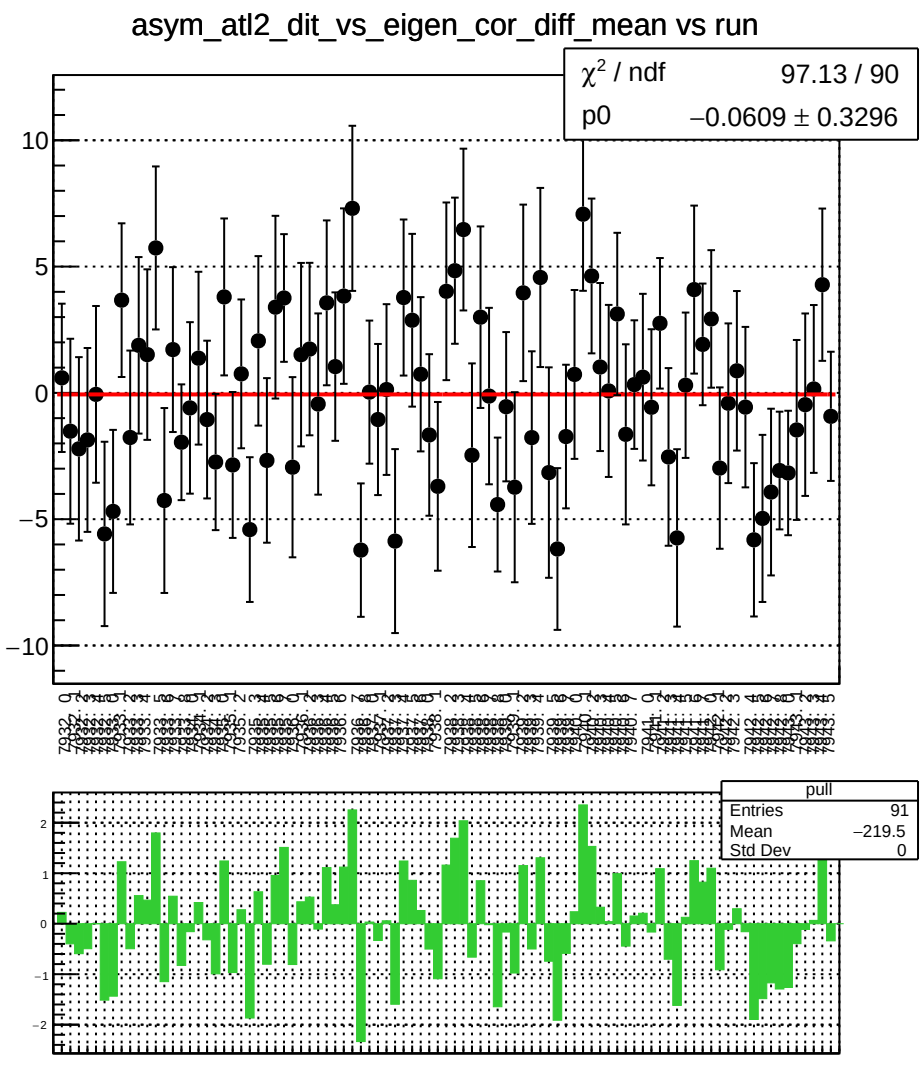

pull1D
Entries 91
Mean 0.03275
Std Dev 1.008

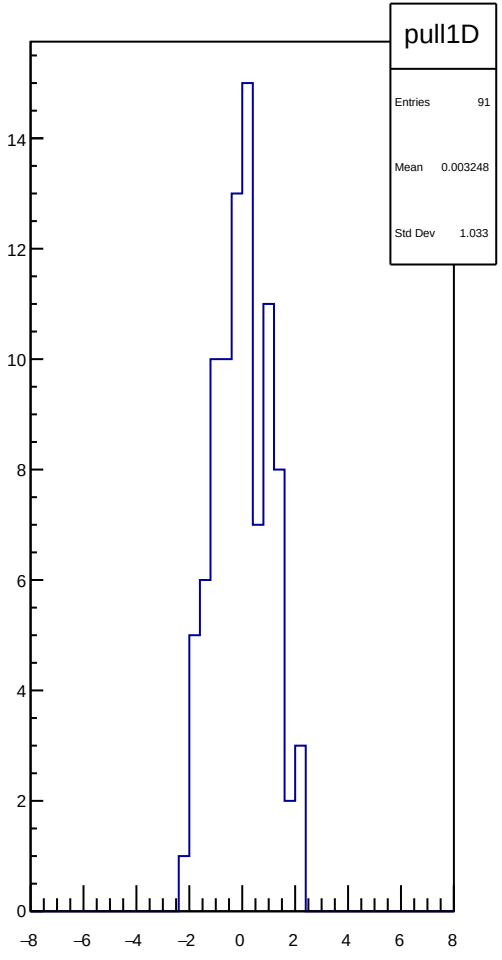

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 90
p0 7.863e−10 ± 9.77e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

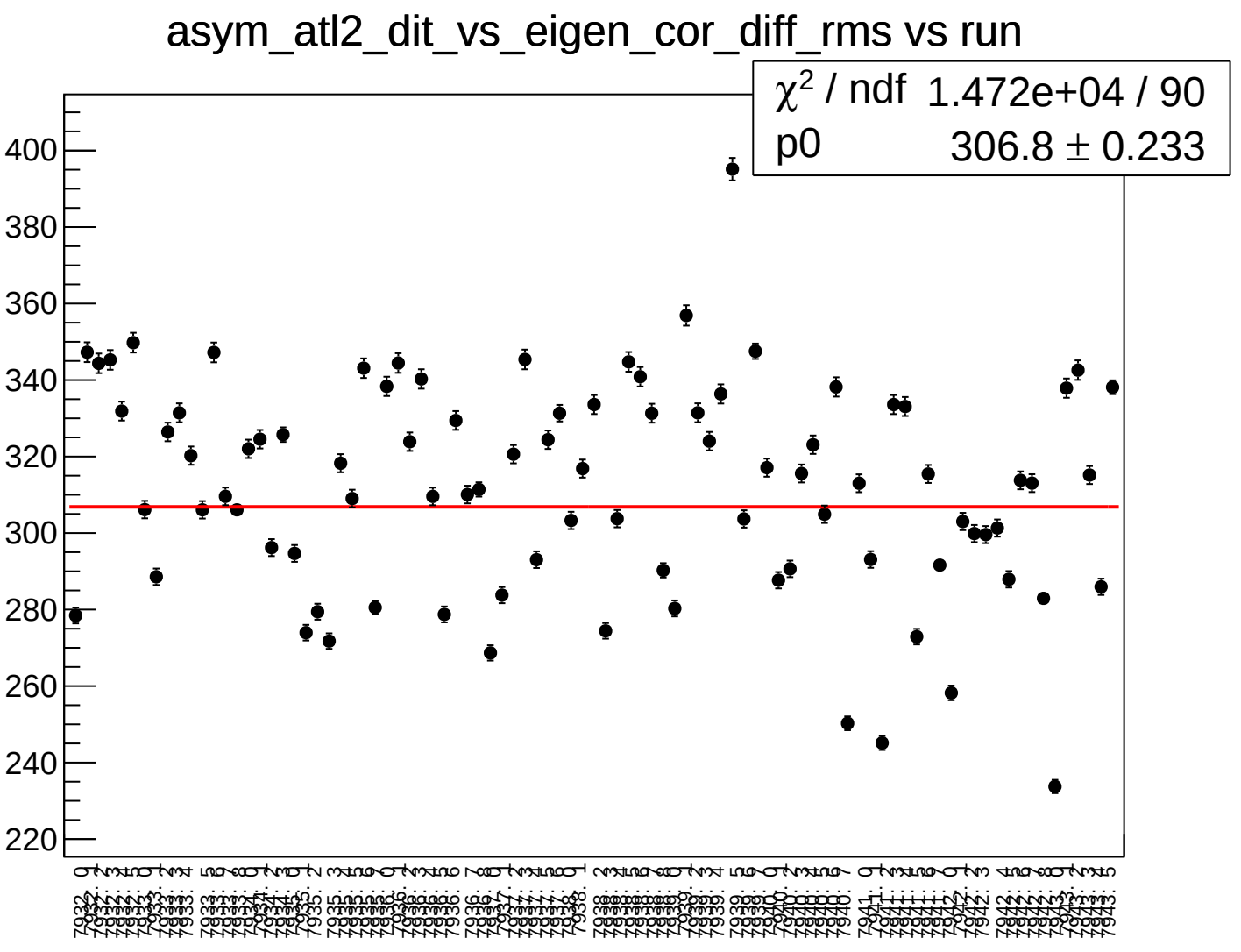

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 97.13 / 90
p0 −0.0609 ± 0.3296
pull
Entries 91
Mean −219.5
Std Dev 0

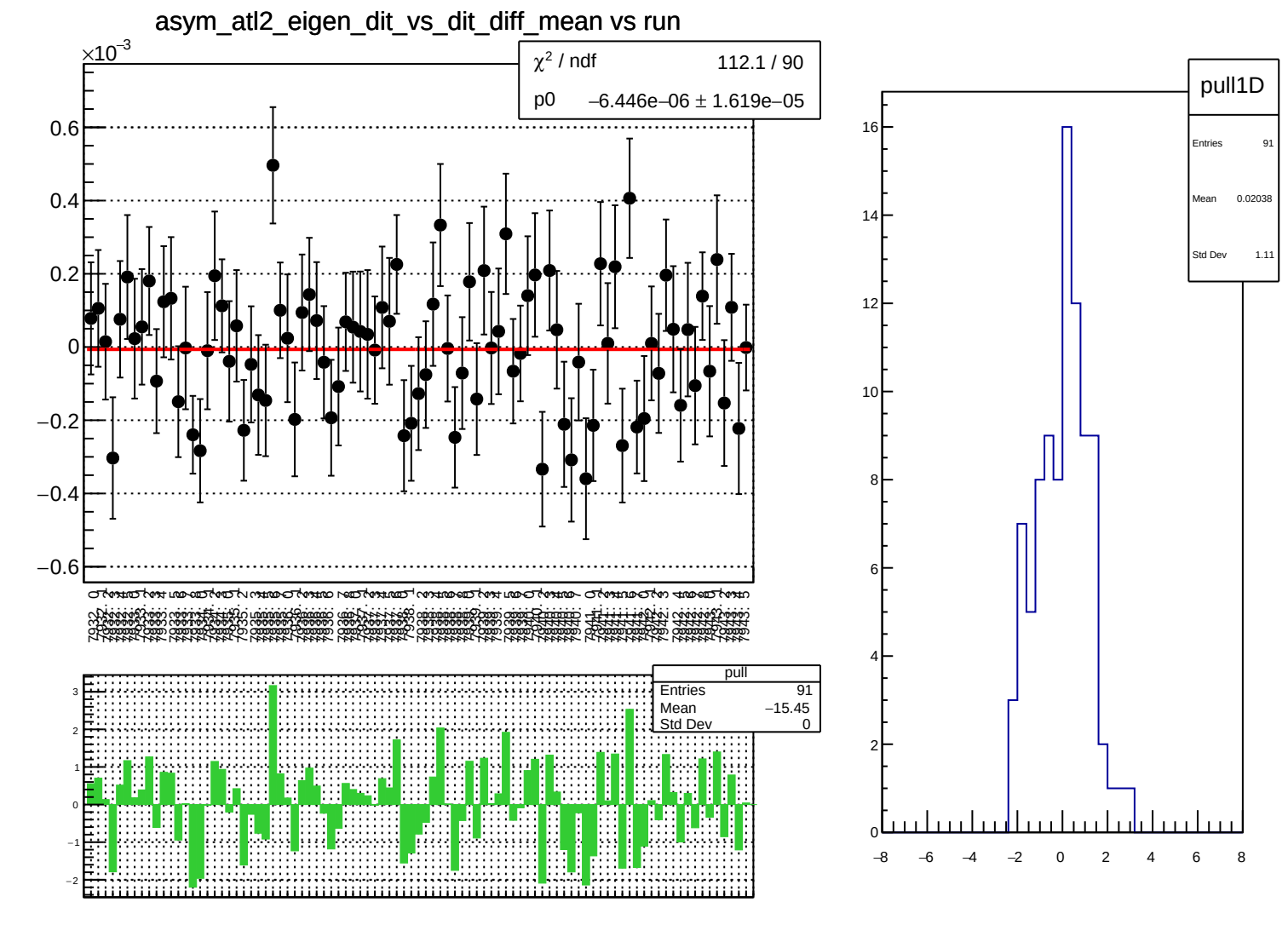

pull1D
Entries 91
Mean 0.003248
Std Dev 1.033

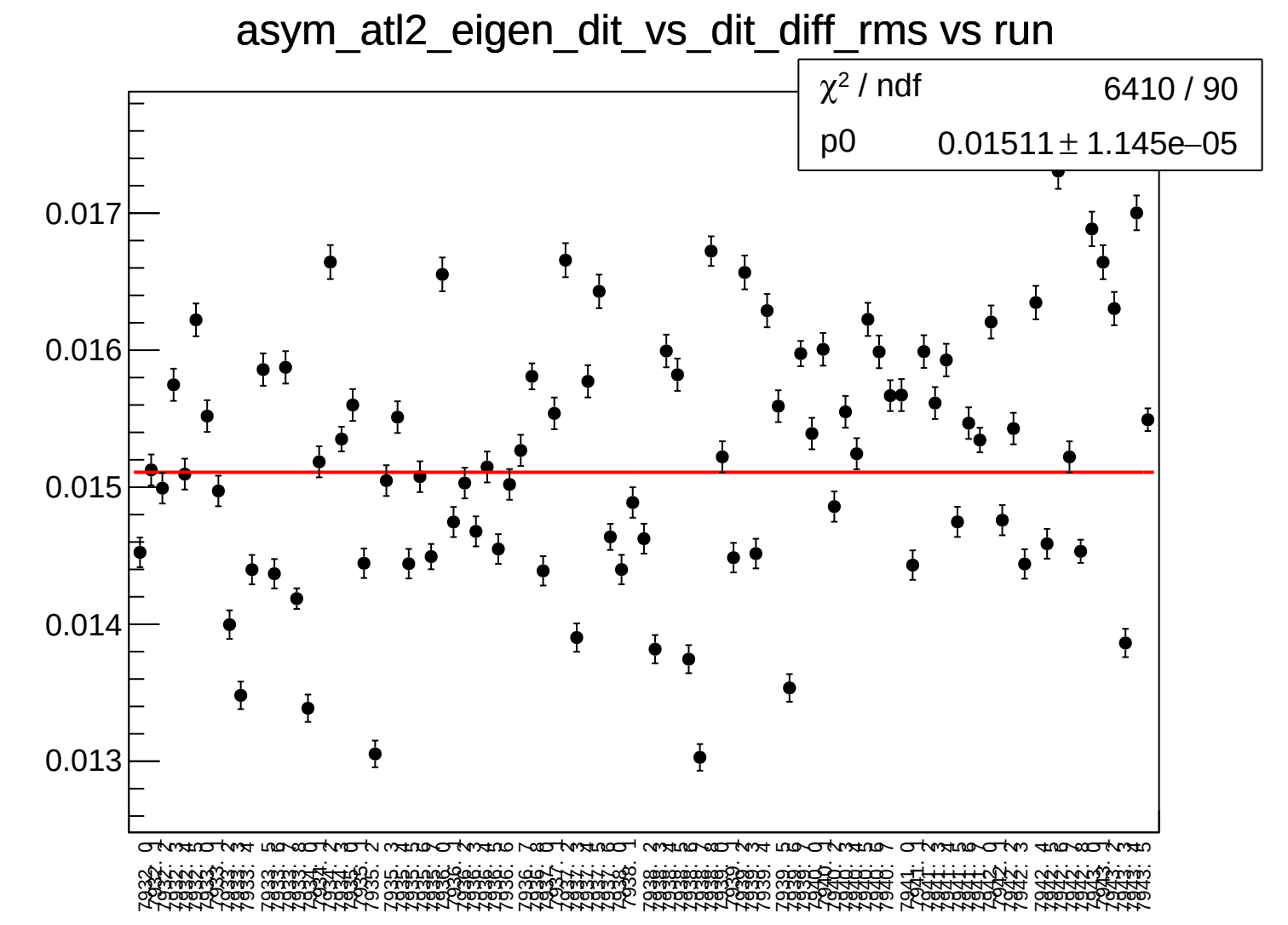

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 90
p0 306.8 ± 0.233
400
380
360
340
320
300
280
260
240
220

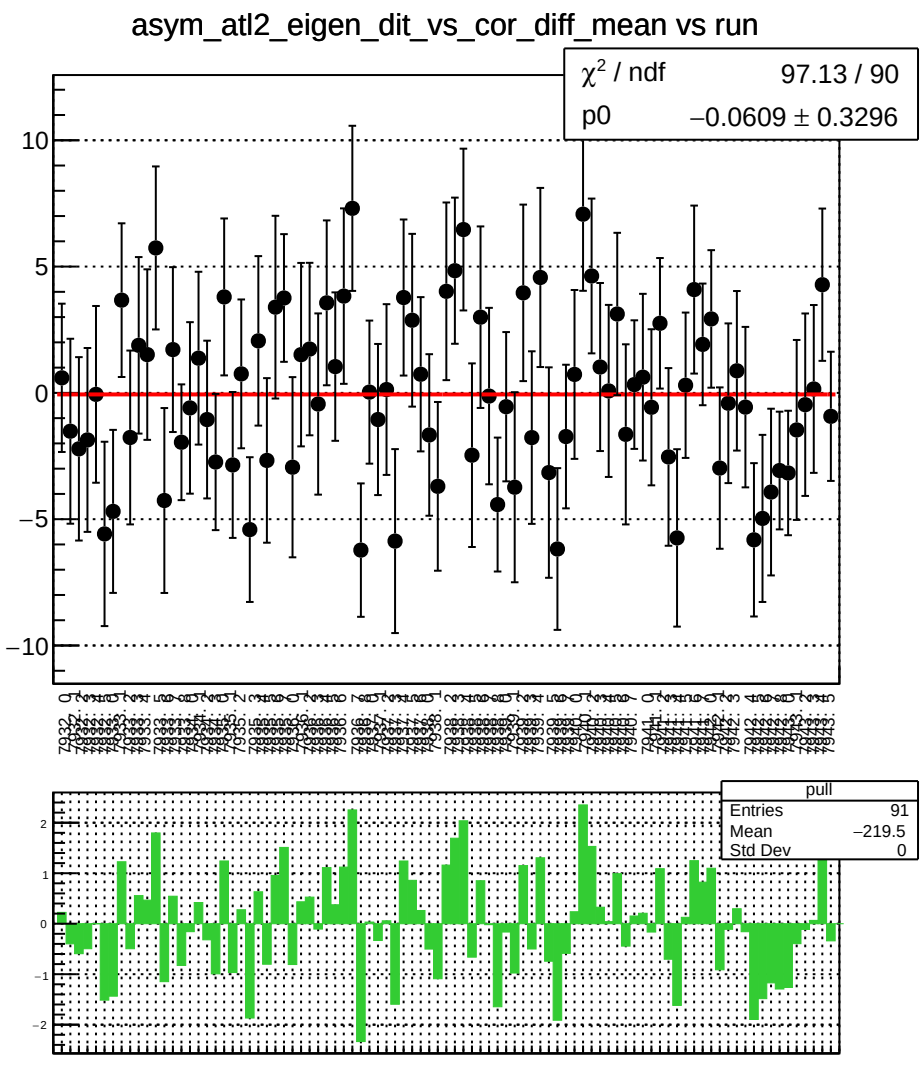

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.13 / 90
p0 −0.0609 ± 0.3296
pull
Entries 91
Mean −219.5
Std Dev 0

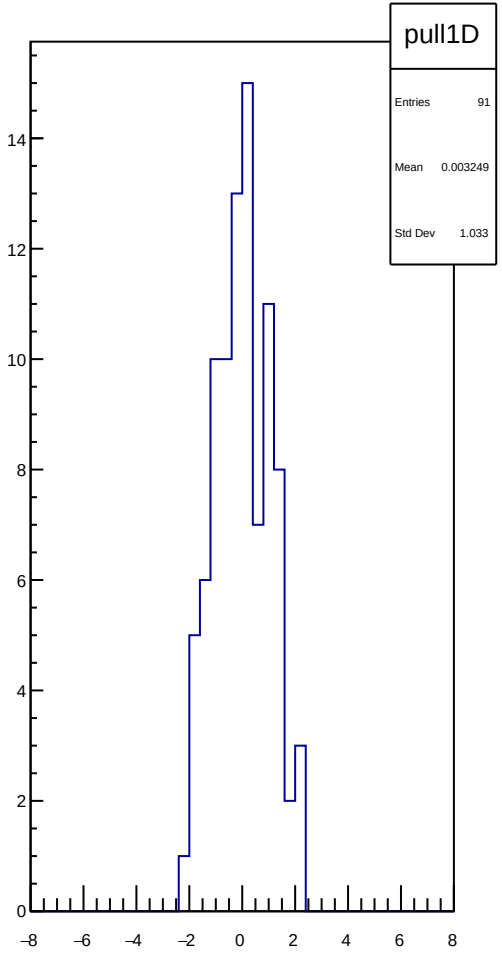

pull1D
Entries 91
Mean 0.003248
Std Dev 1.033

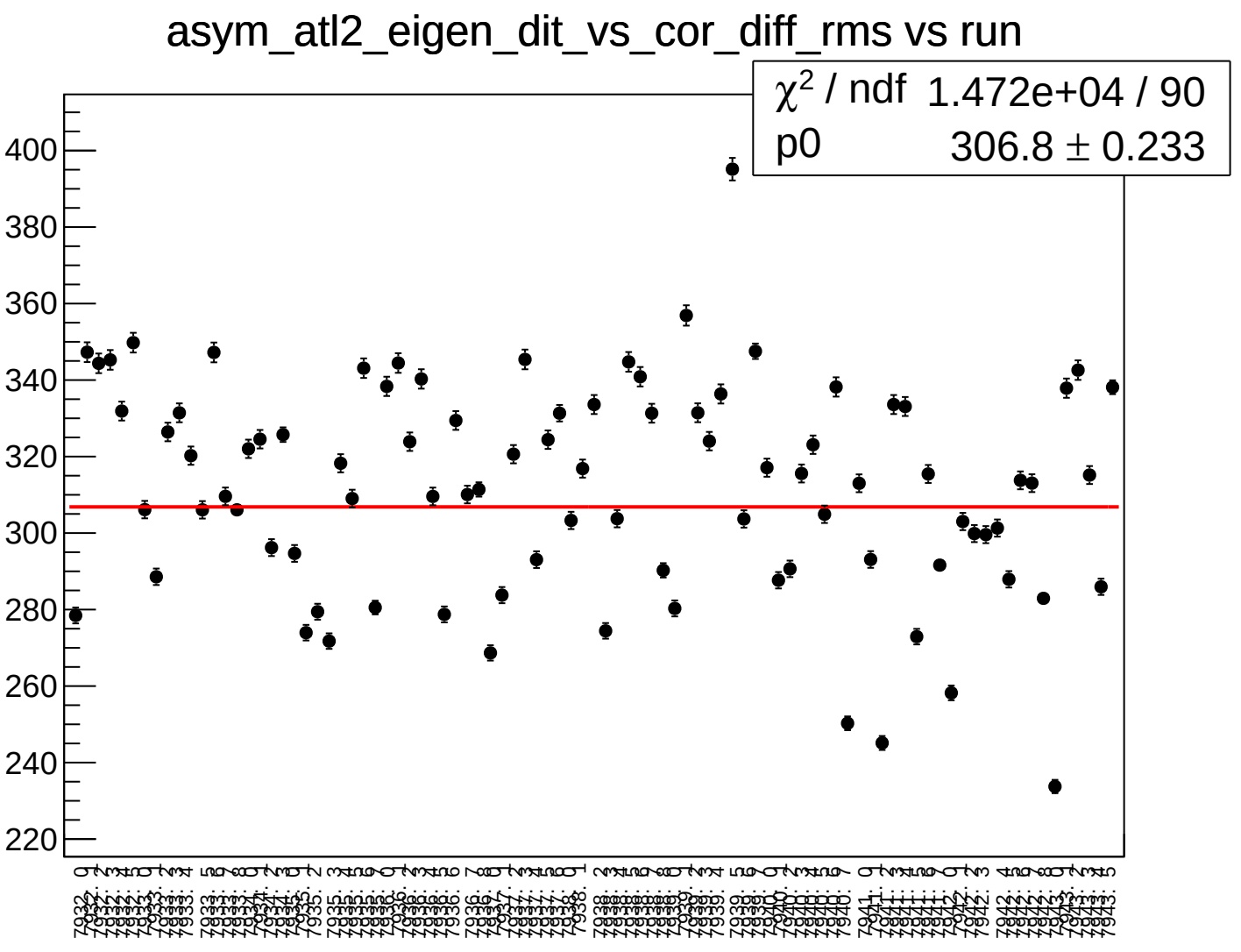

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 90
p0 306.8 ± 0.233
400
380
360
340
320
300
280
260
240
220

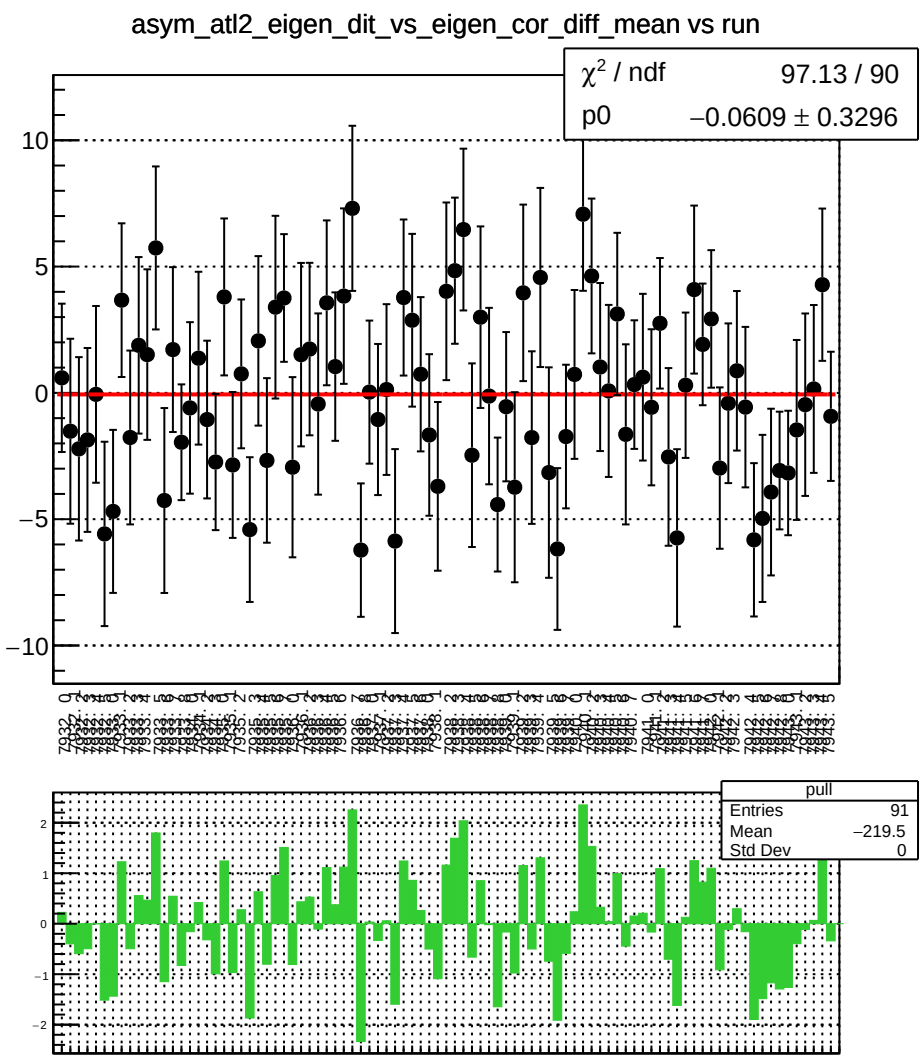

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 112.1 / 90
p0 −6.446e−06 ± 1.619e−05
pull
Entries 91
Mean −15.45
Std Dev 0
pull1D
Entries 91
Mean 0.02038
Std Dev 1.11

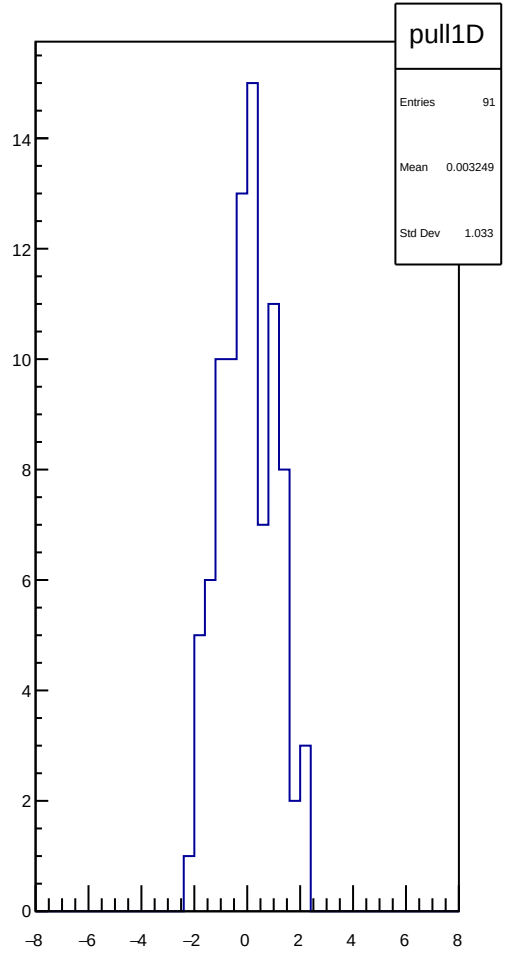

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6410 / 90
p0 0.01511 ± 1.145e−05
0.017
0.016
0.015
0.014
0.013

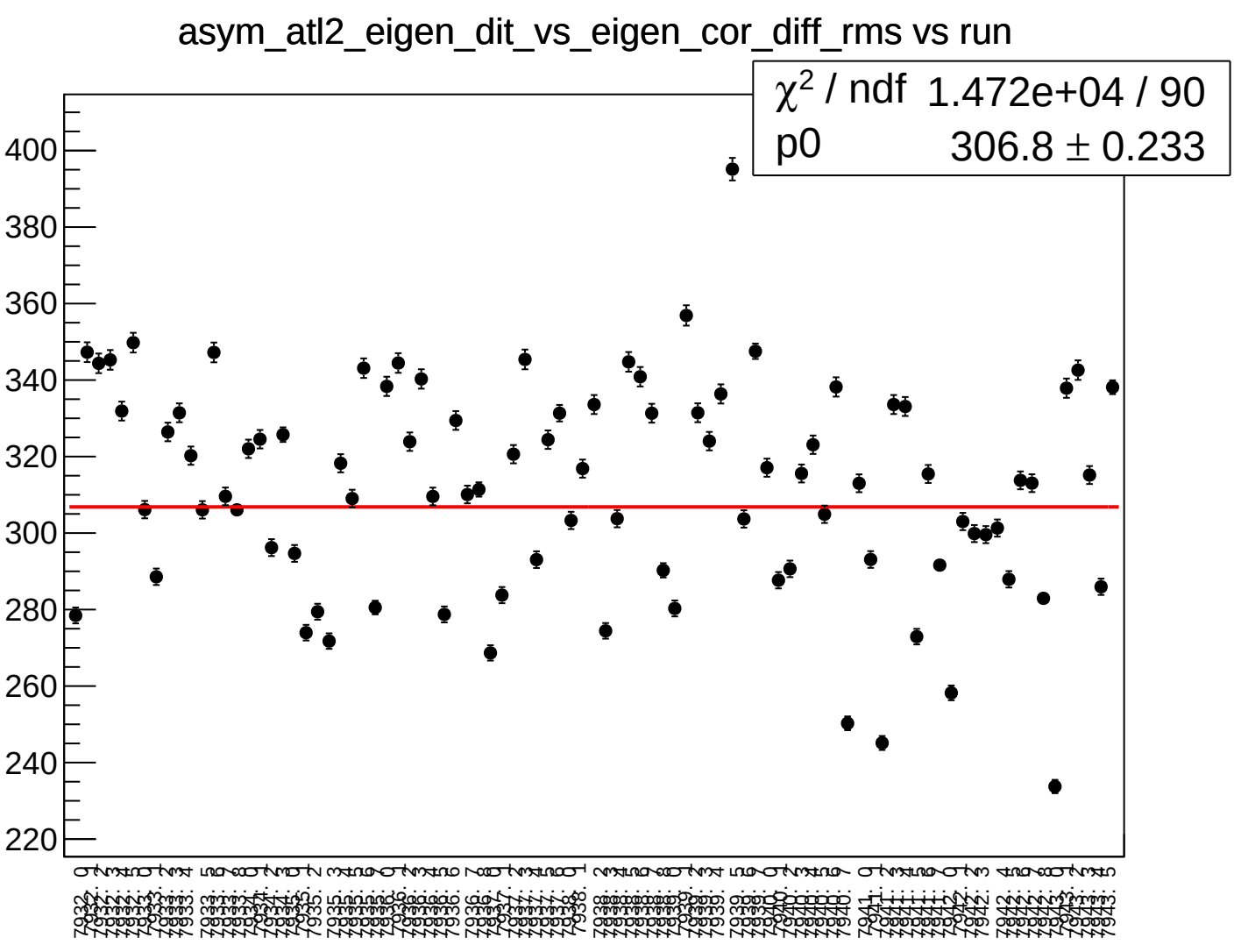

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.13 / 90
p0 −0.0609 ± 0.3296
pull
Entries 91
Mean −219.5
Std Dev 0

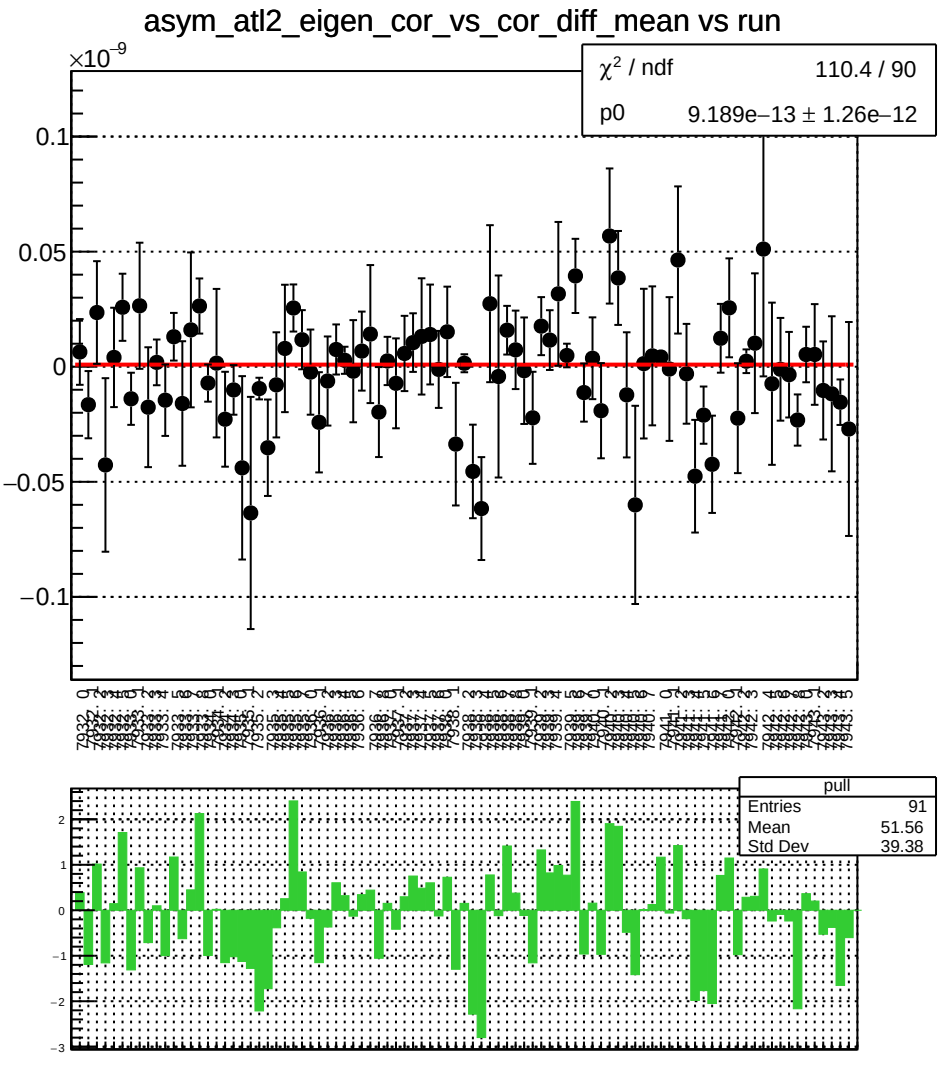

pull1D
Entries 91
Mean 0.003249
Std Dev 1.033

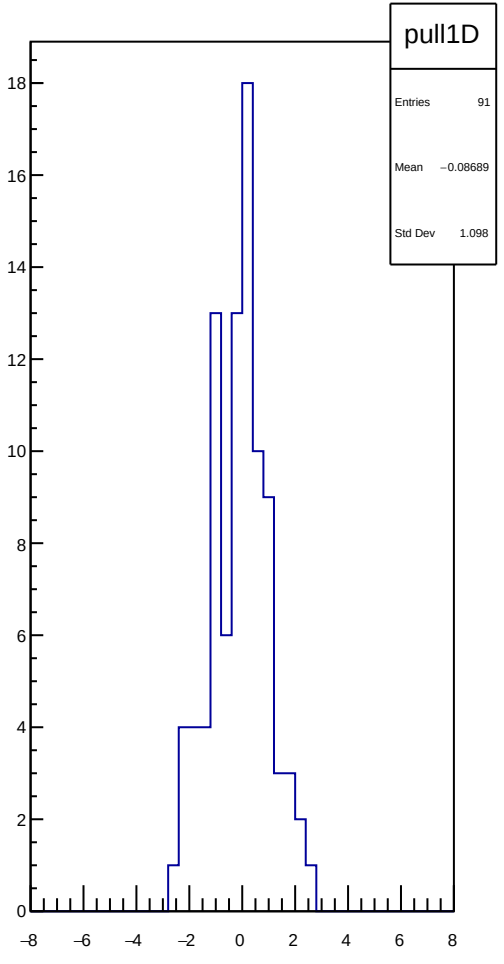

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 90
p0 306.8 ± 0.233
400
380
360
340
320
300
280
260
240
220

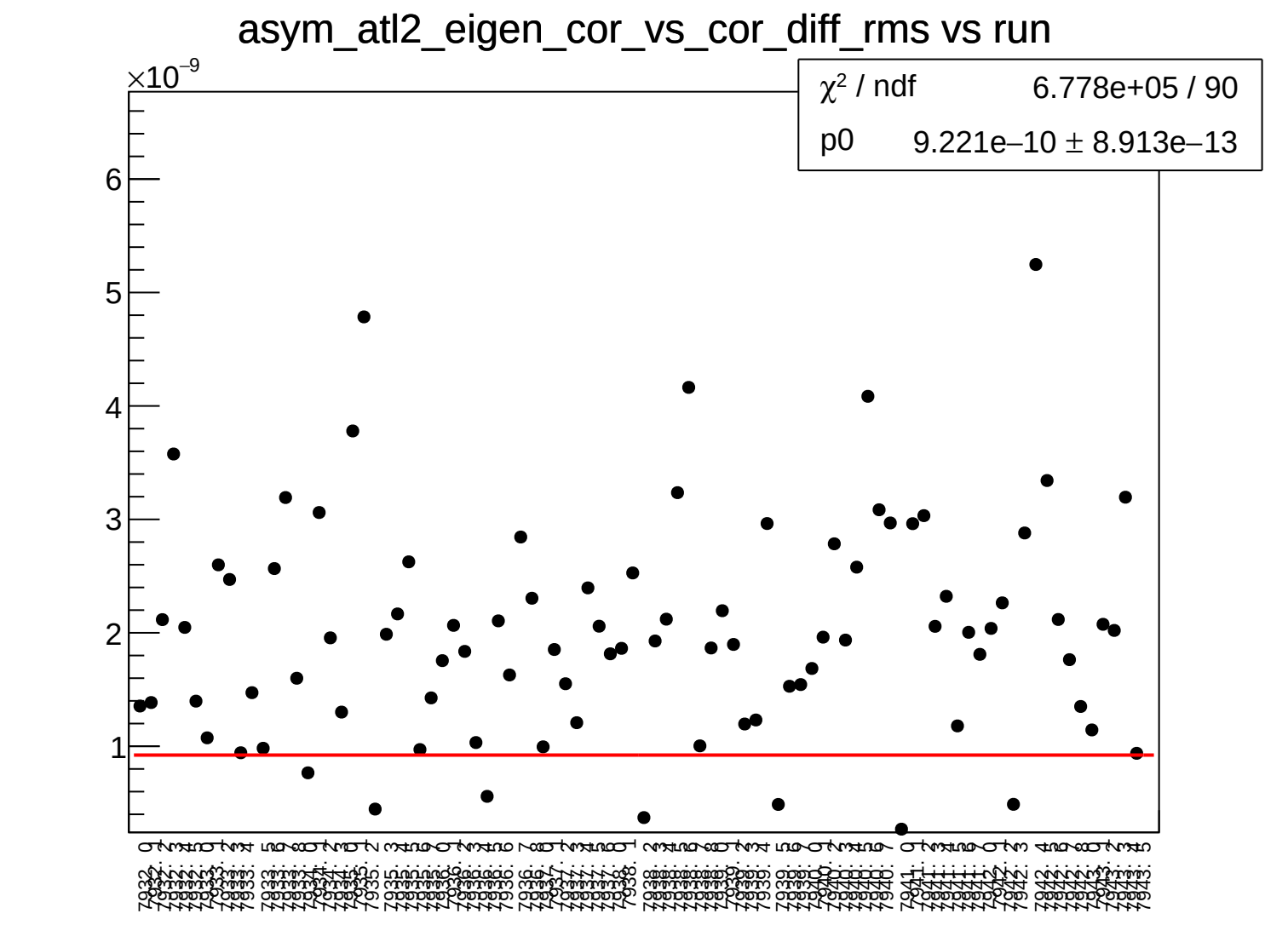

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.13 / 90
p0 −0.0609 ± 0.3296
pull
Entries 91
Mean −219.5
Std Dev 0

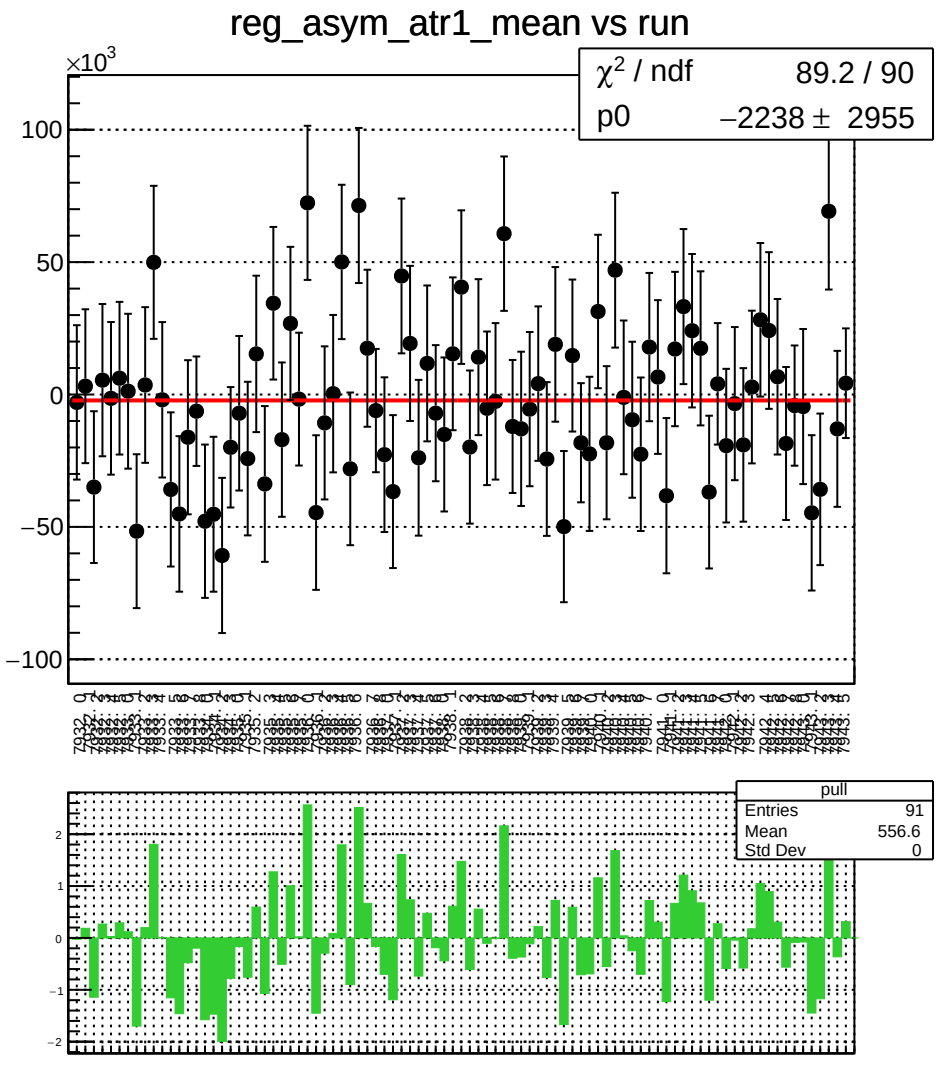

pull1D
Entries 91
Mean 0.003249
Std Dev 1.033

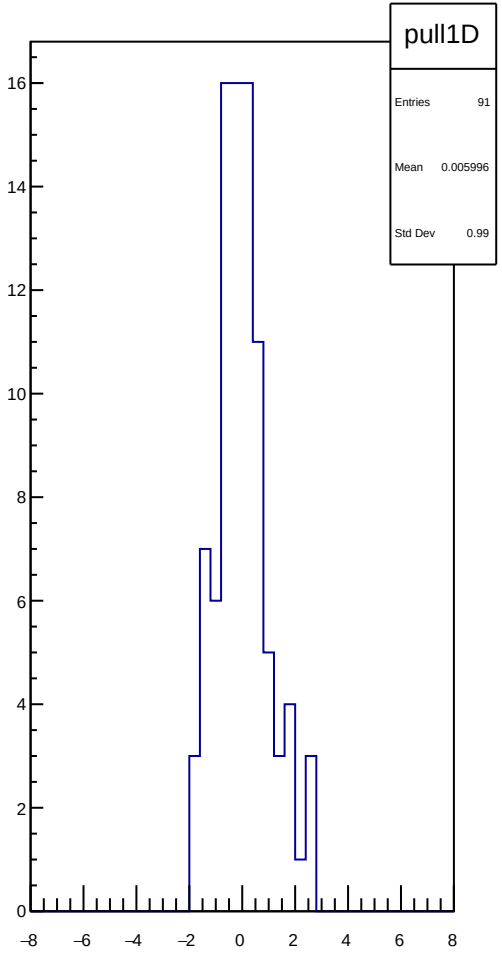

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 90
p0 306.8 ± 0.233
400
380
360
340
320
300
280
260
240
220

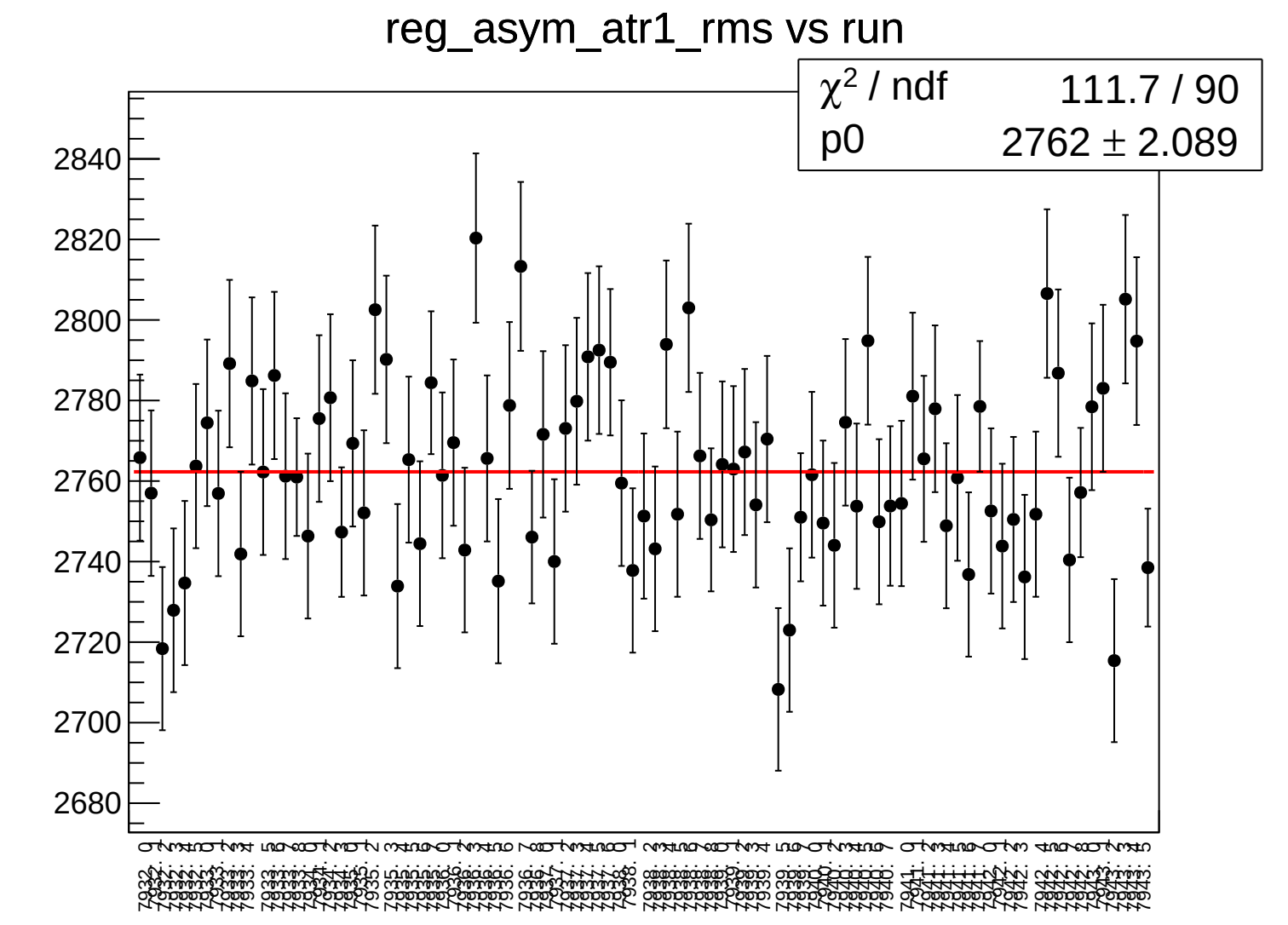

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 110.4 / 90
p0 9.189e−13 ± 1.26e−12
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 51.56
Std Dev 39.38
2
1
0
−1
−2
−3

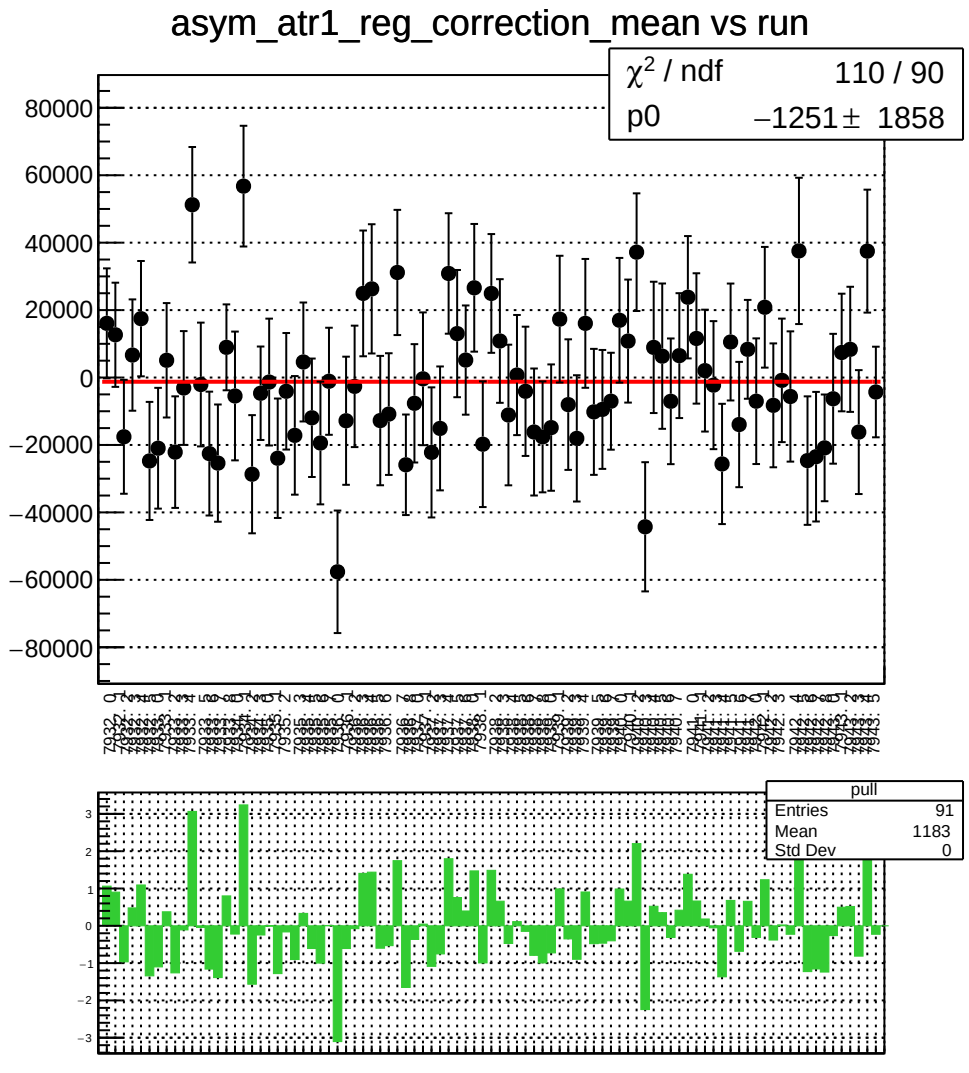

pull1D
Entries 91
Mean −0.08689
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

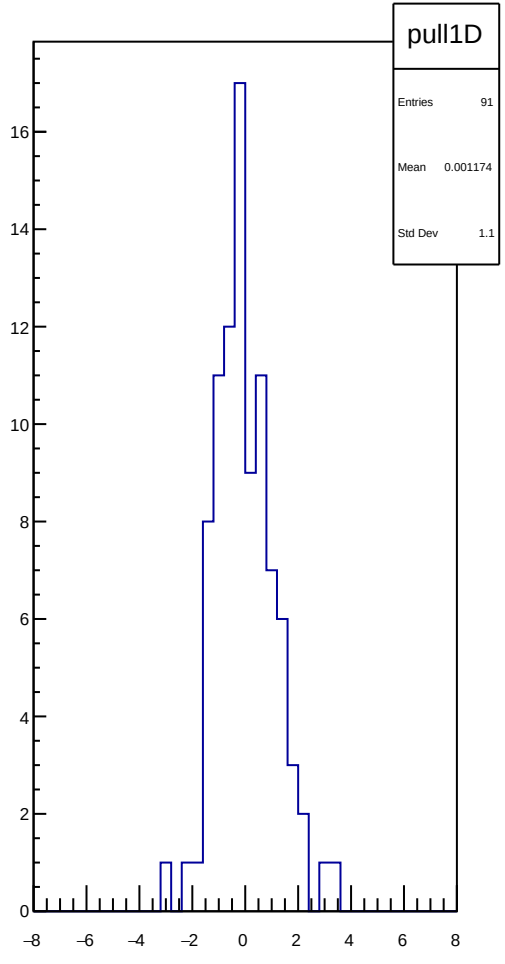

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.778e+05 / 90
p0 9.221e−10 ± 8.913e−13
6
5
4
3
2
1

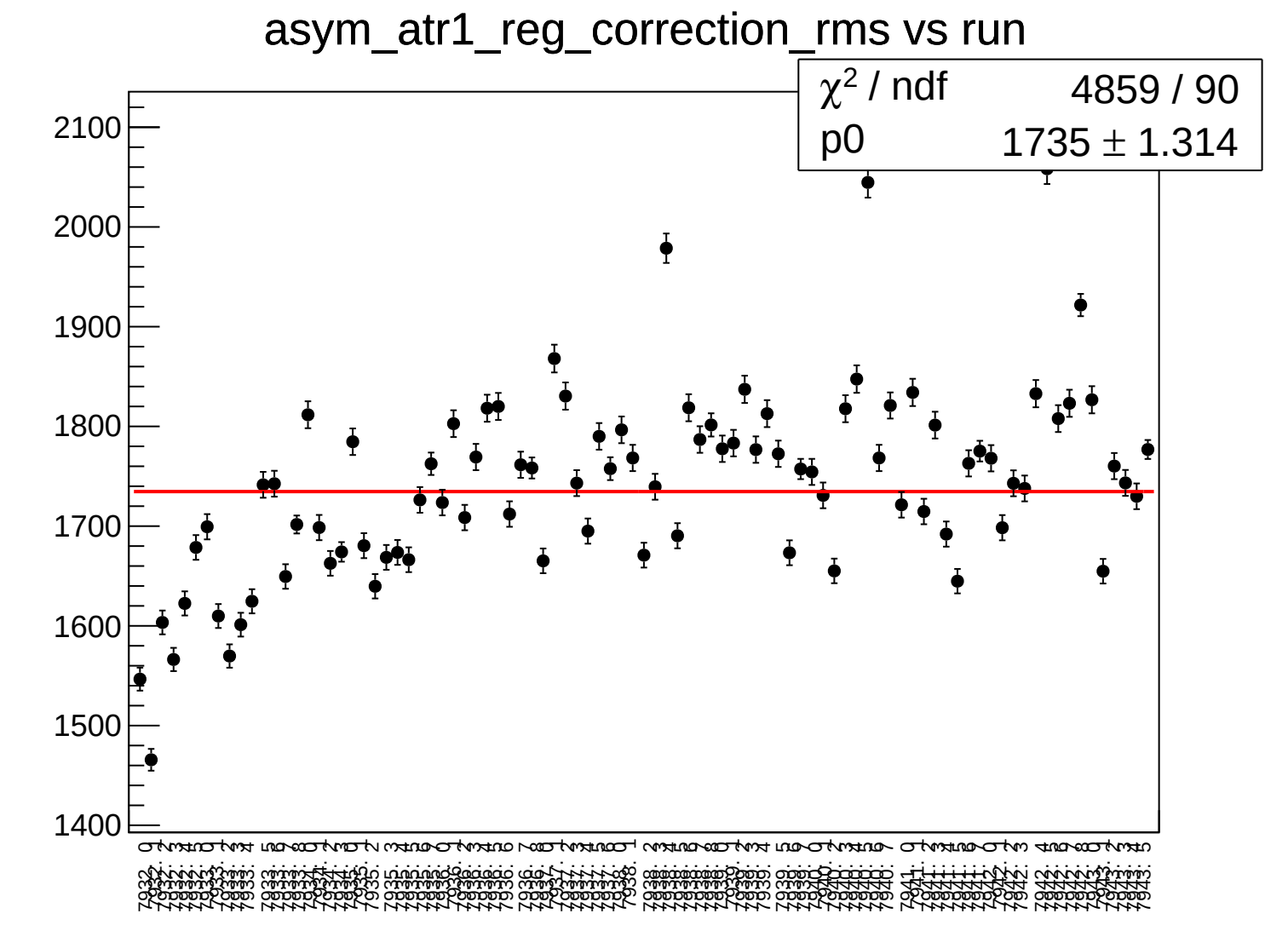

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 89.2 / 90
p0 −2238 ± 2955
100
50
0
−50
−100
pull
Entries 91
Mean 556.6
Std Dev 0
2
1
0
−1
−2

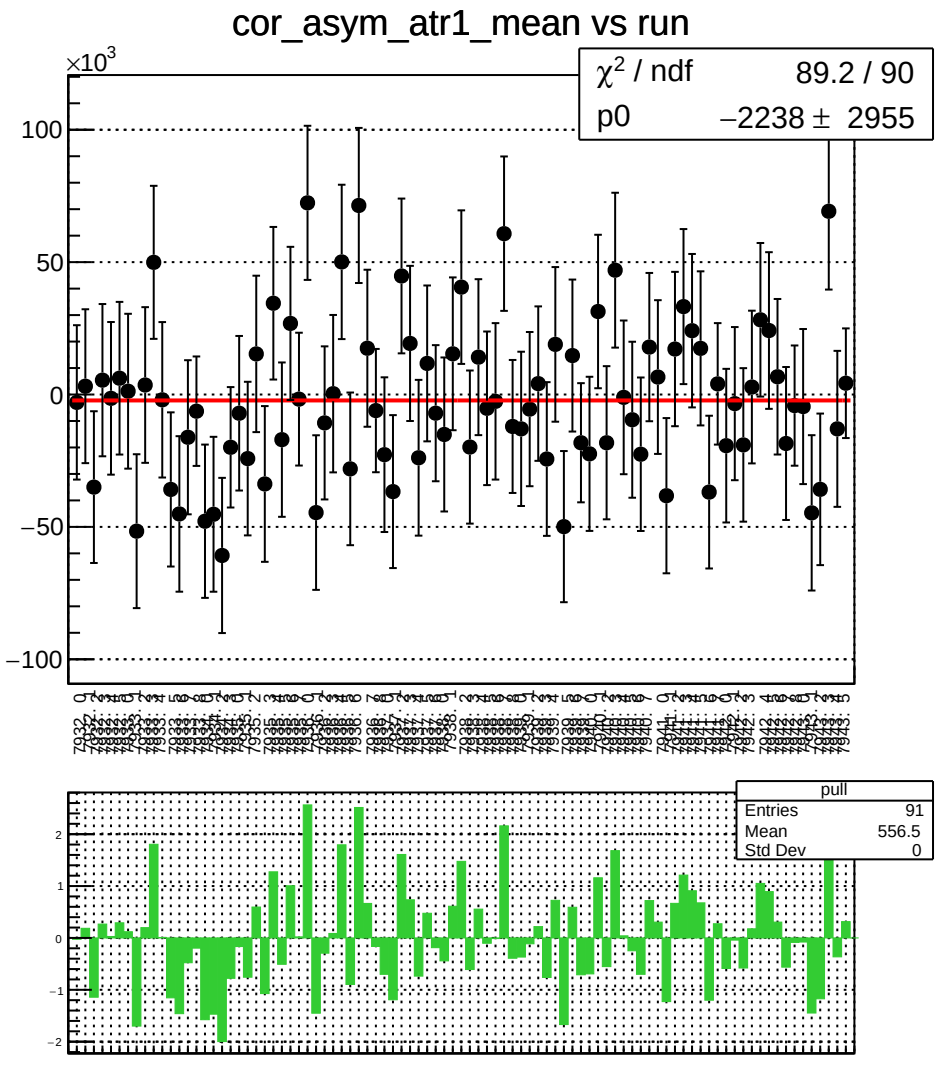

pull1D
Entries 91
Mean 0.005996
Std Dev 0.99
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

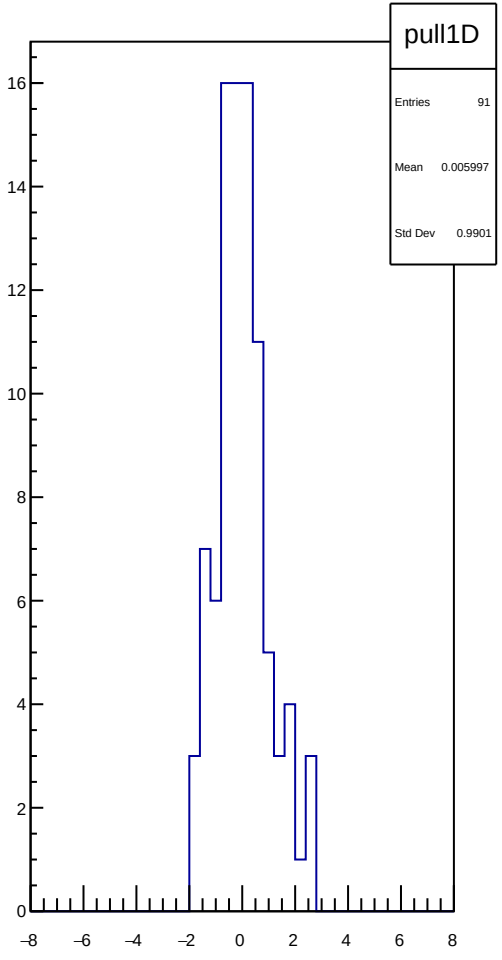

reg_asym_atr1_rms vs run
χ^2 / ndf 111.7 / 90
p0 2762 ± 2.089
2840
2820
2800
2780
2760
2740
2720
2700
2680

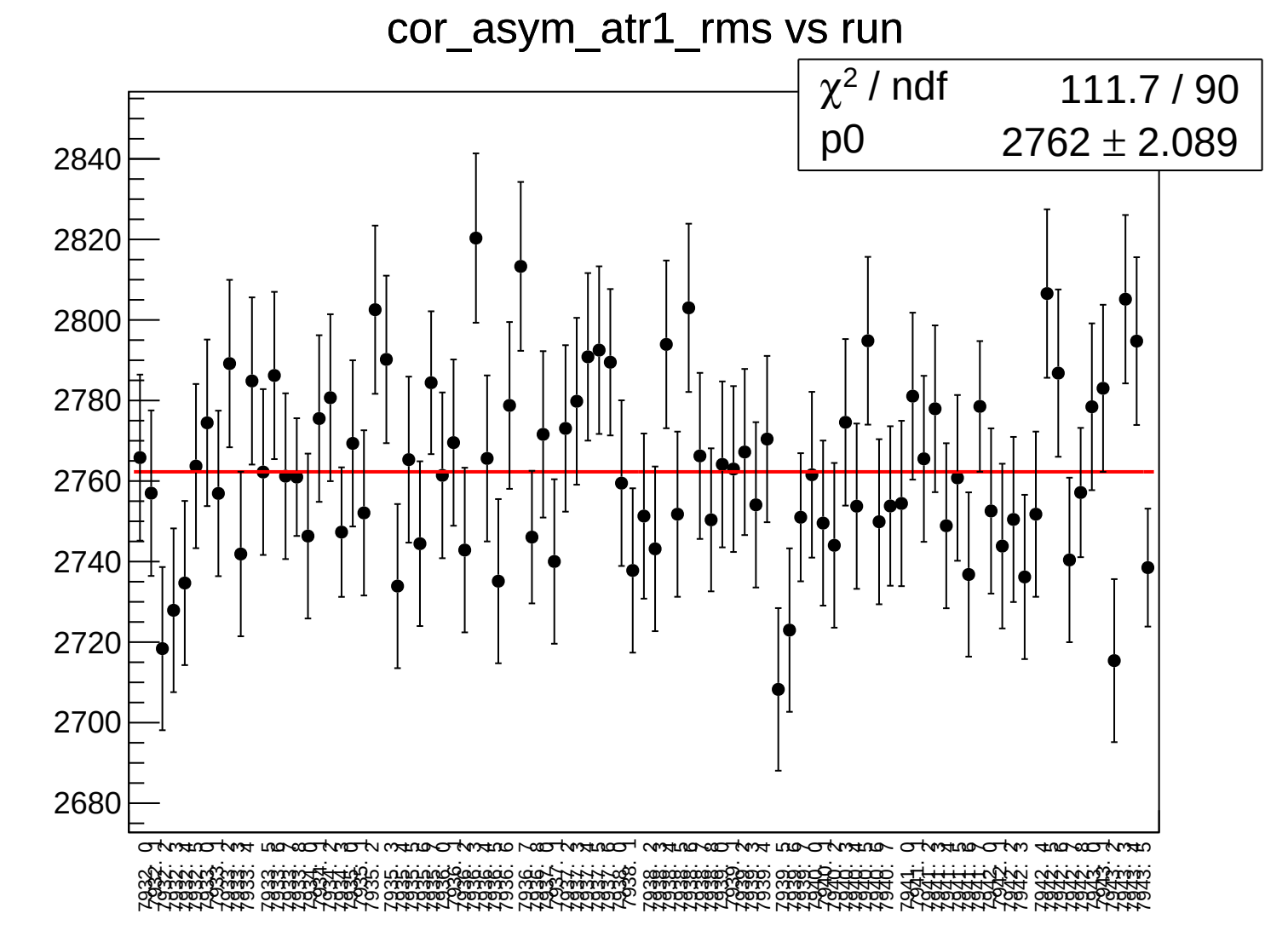

asym_atr1_reg_correction_mean vs run
χ² / ndf 110 / 90
p0 −1251 ± 1858
pull
Entries 91
Mean 1183
Std Dev 0

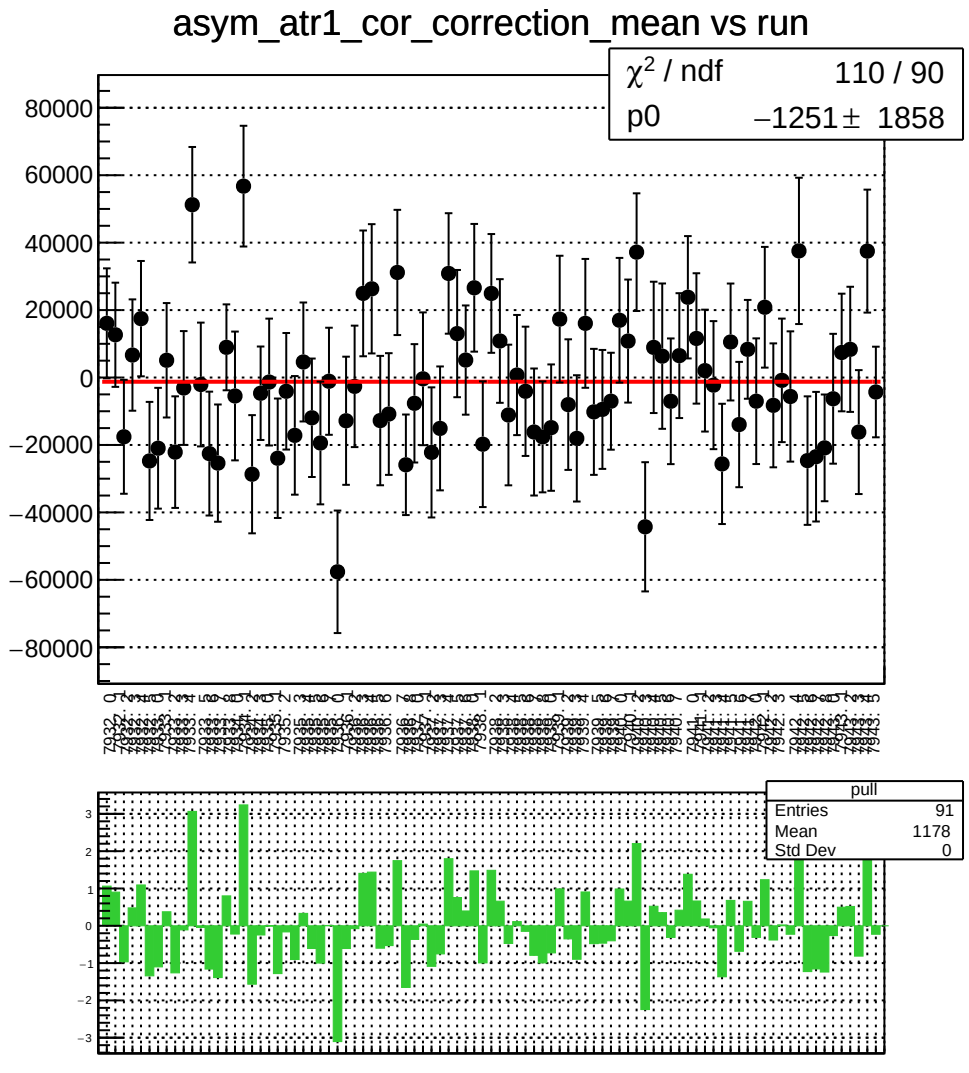

pull1D
Entries 91
Mean 0.001174
Std Dev 1.1

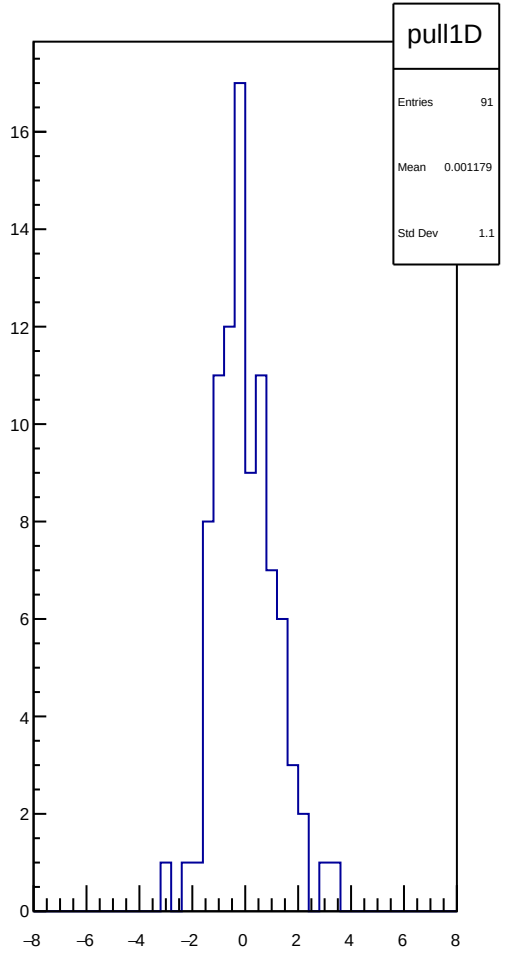

asym_atr1_reg_correction_rms vs run
χ² / ndf 4859 / 90
p0 1735 ± 1.314
2100
2000
1900
1800
1700
1600
1500
1400

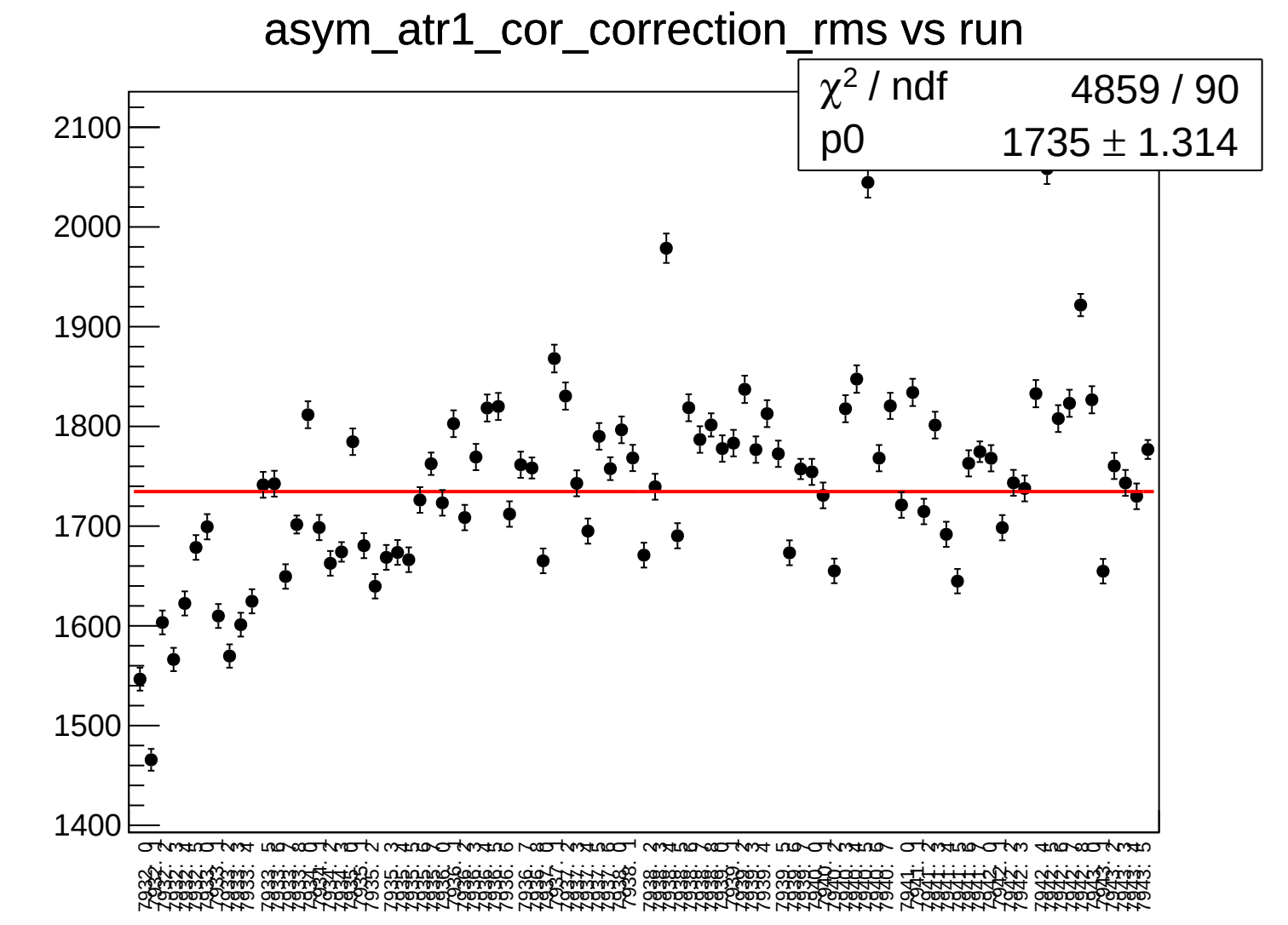

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 89.2 / 90
p0 −2238 ± 2955
100
50
0
−50
−100
pull
Entries 91
Mean 556.5
Std Dev 0
2
1
0
−1
−2

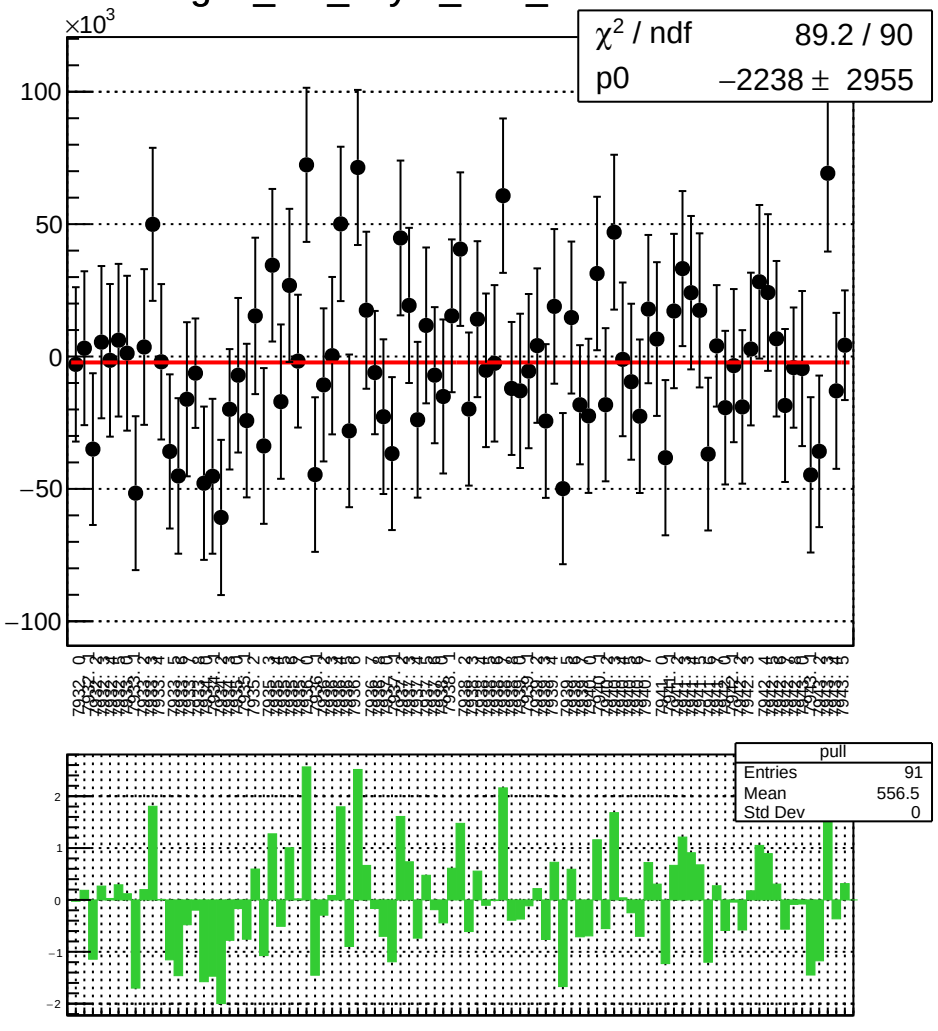

pull1D
Entries 91
Mean 0.005997
Std Dev 0.9901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

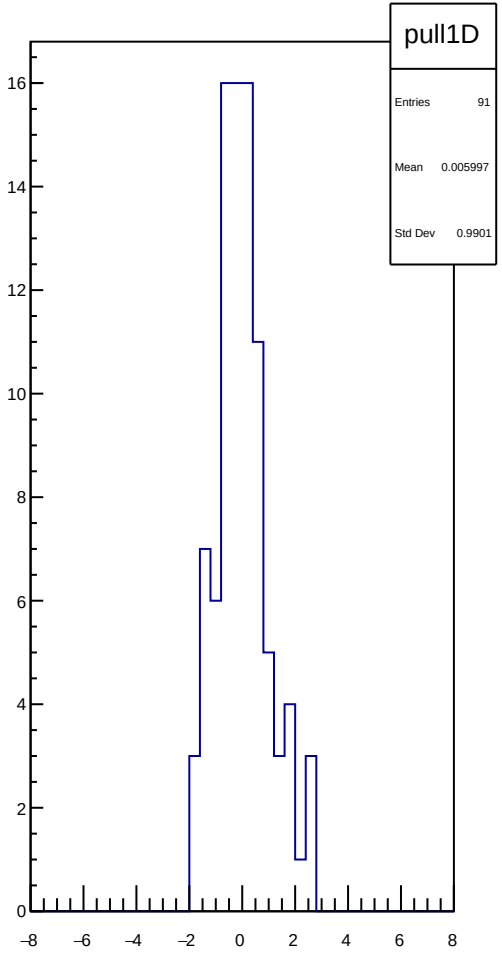

cor_asym_atr1_rms vs run
χ^2 / ndf 111.7 / 90
p0 2762 ± 2.089
2840
2820
2800
2780
2760
2740
2720
2700
2680

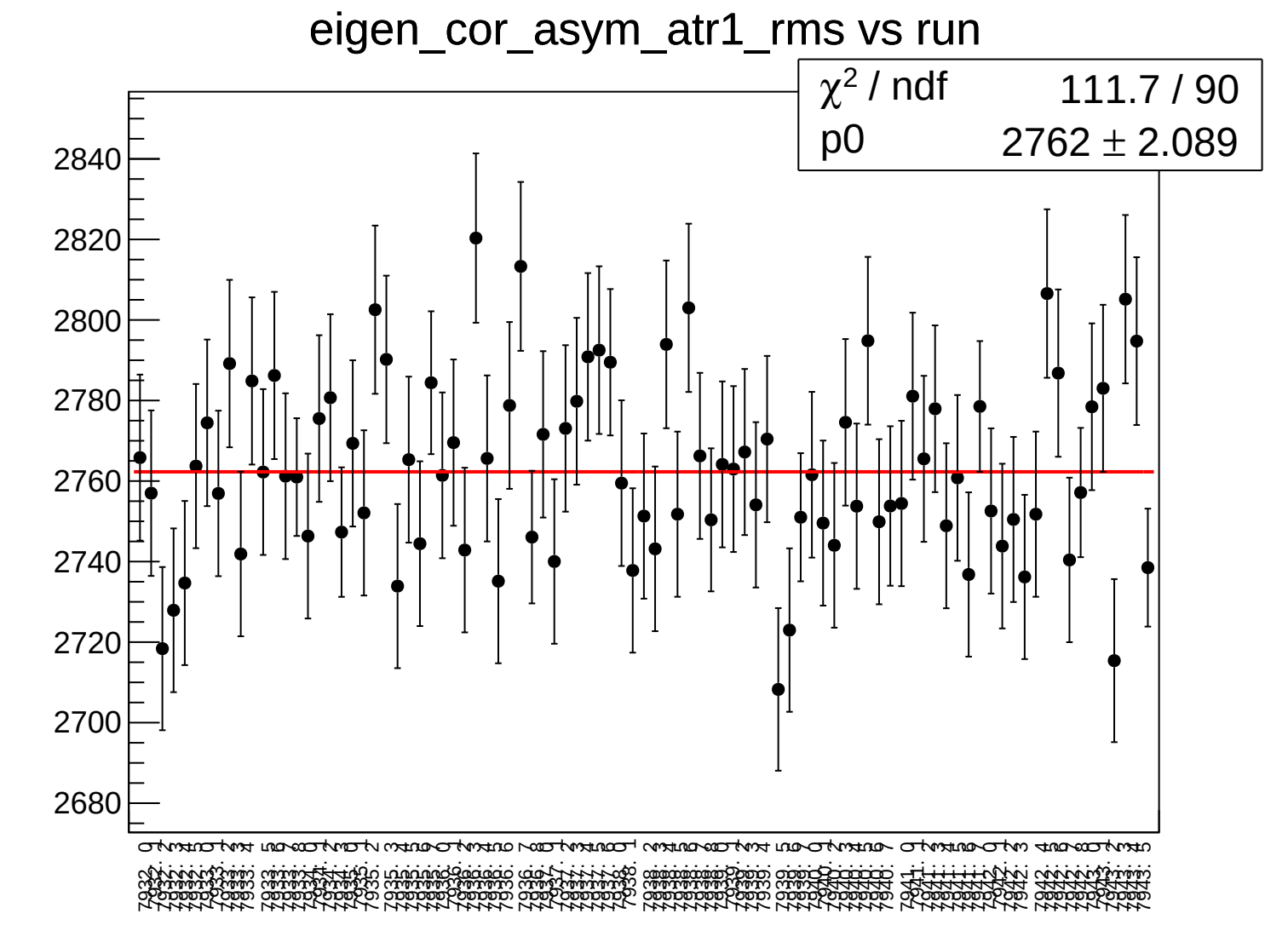

asym_atr1_cor_correction_mean vs run
χ² / ndf 110 / 90
p0 −1251 ± 1858
pull
Entries 91
Mean 1178
Std Dev 0

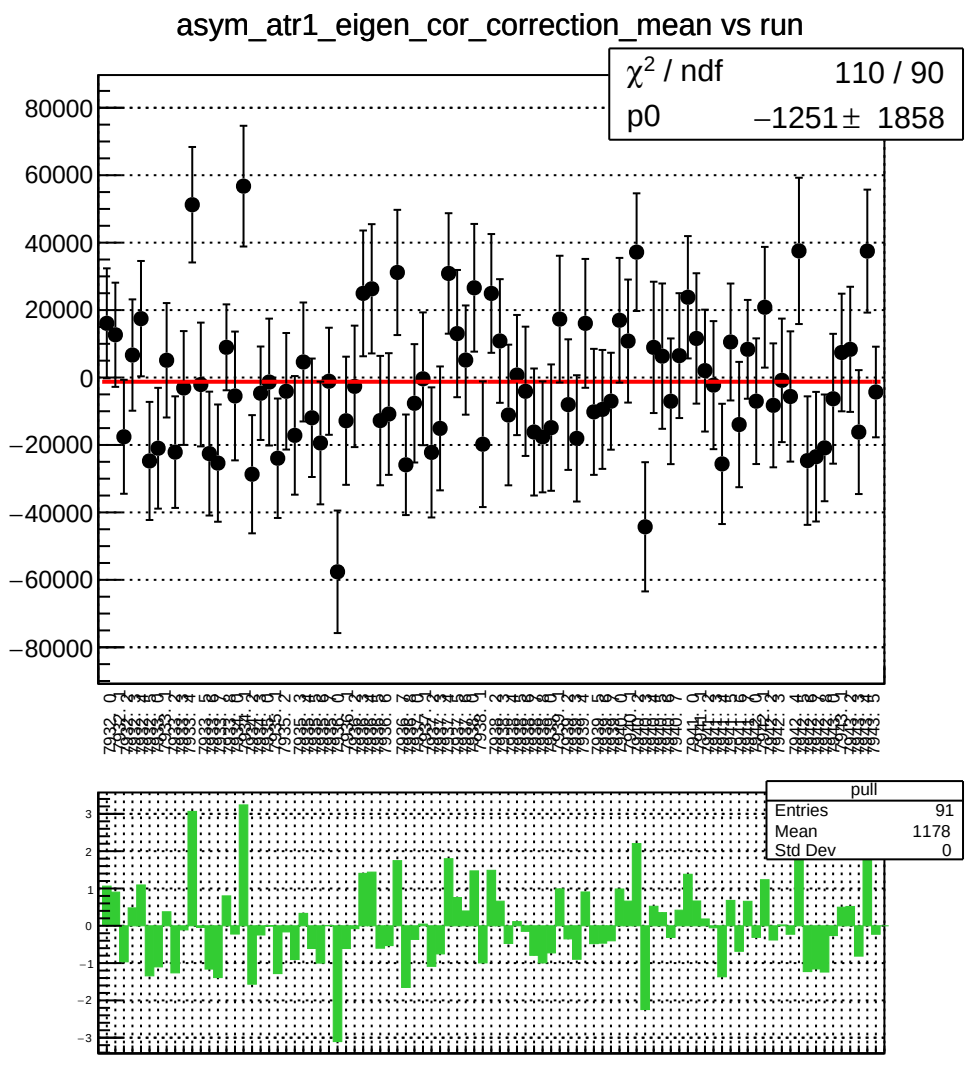

pull1D
Entries 91
Mean 0.001179
Std Dev 1.1

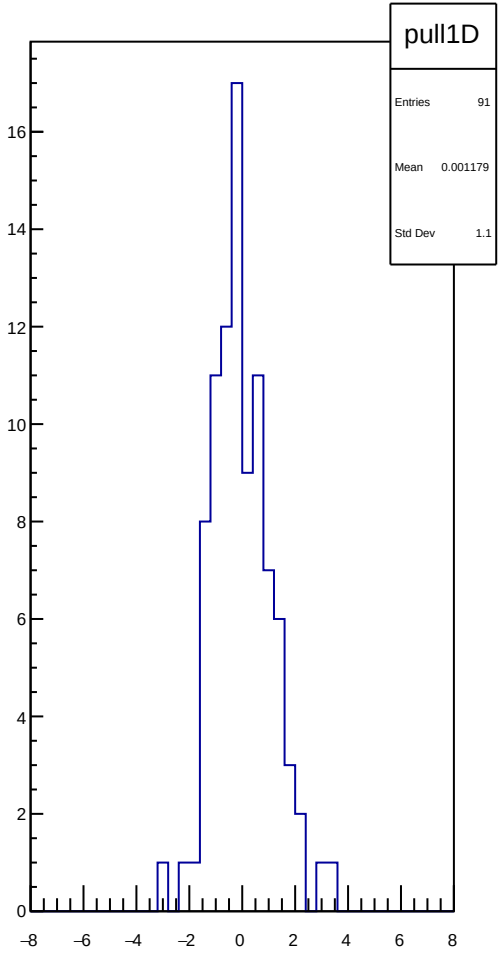

asym_atr1_cor_correction_rms vs run
χ² / ndf 4859 / 90
p0 1735 ± 1.314
2100
2000
1900
1800
1700
1600
1500
1400

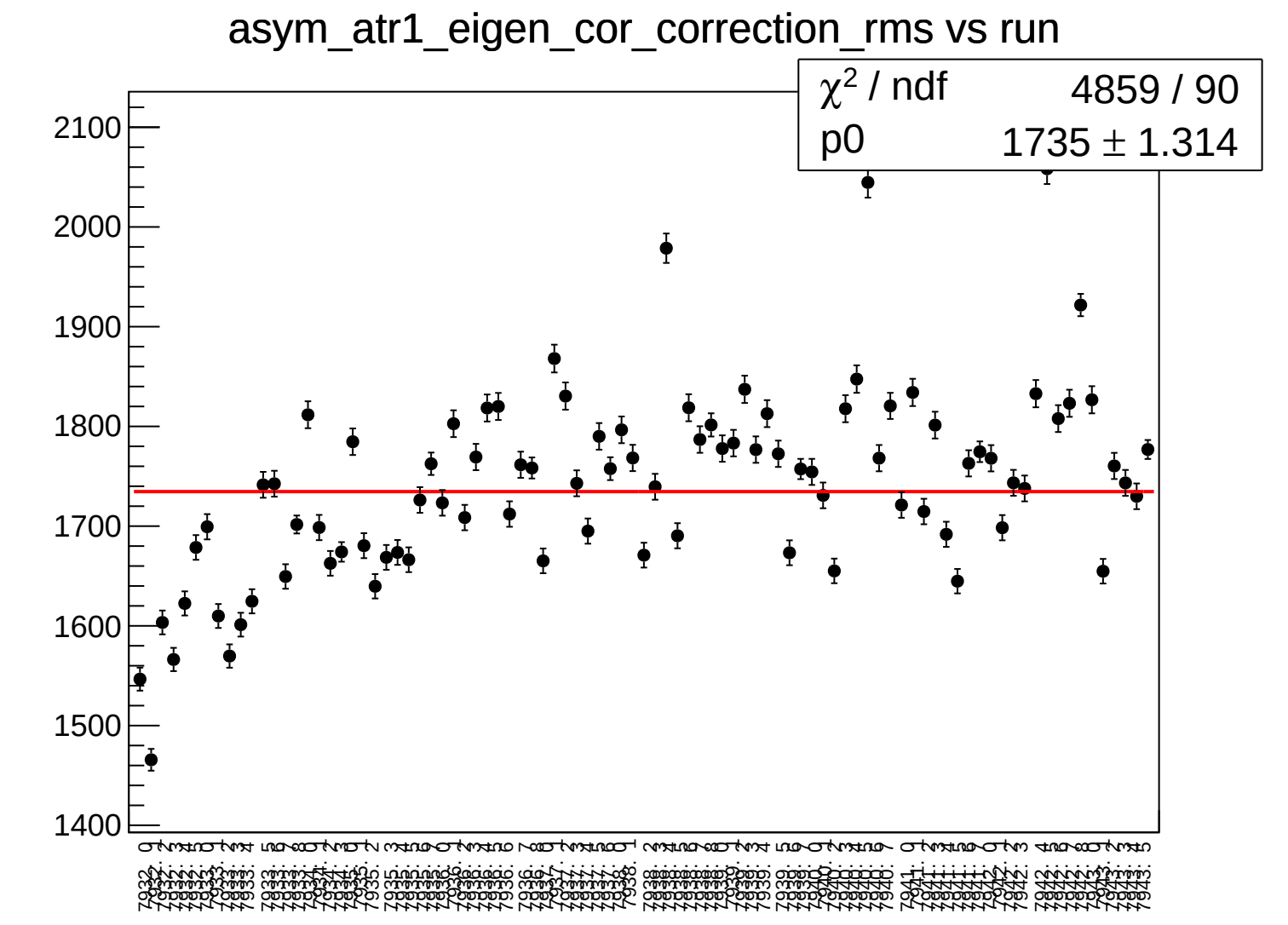

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 89.2 / 90
p0 −2238 ± 2955
100
50
0
−50
−100
pull
Entries 91
Mean 556.5
Std Dev 0
2
1
0
−1
−2

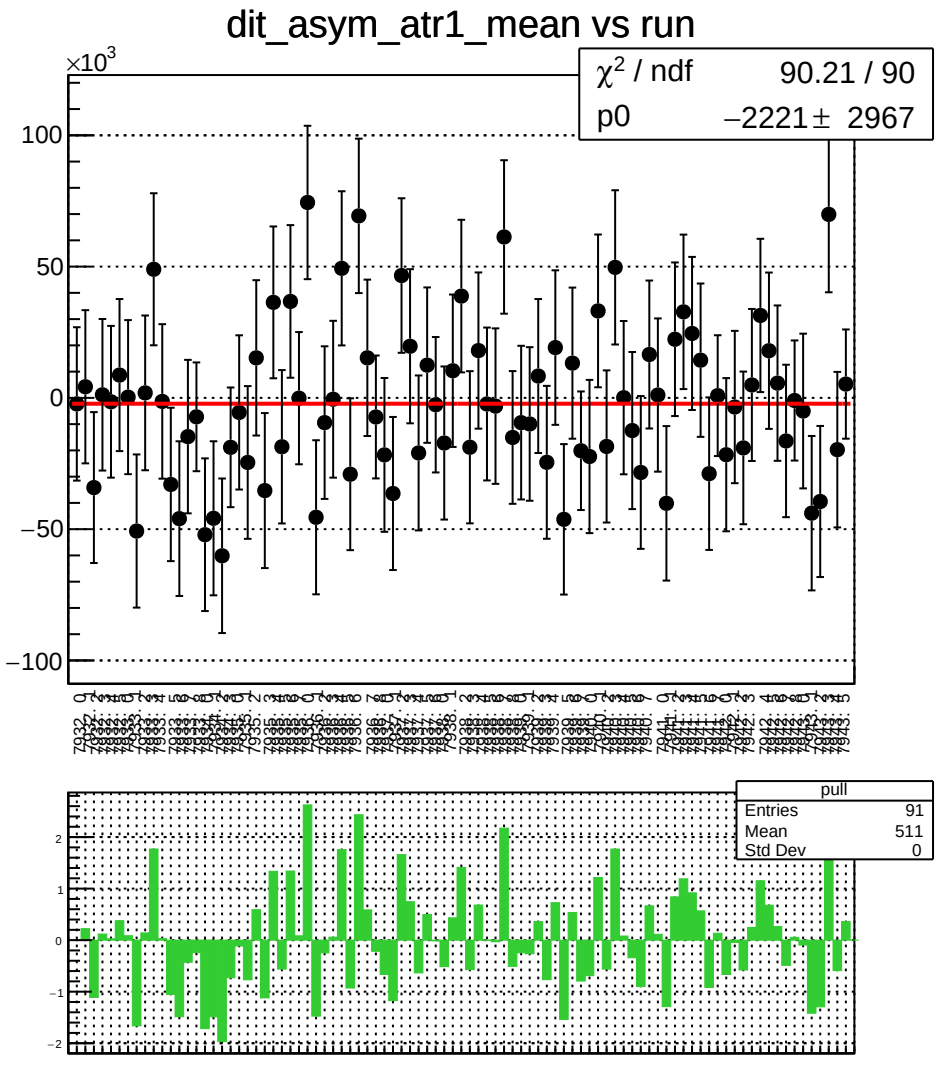

pull1D
Entries 91
Mean 0.005997
Std Dev 0.9901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

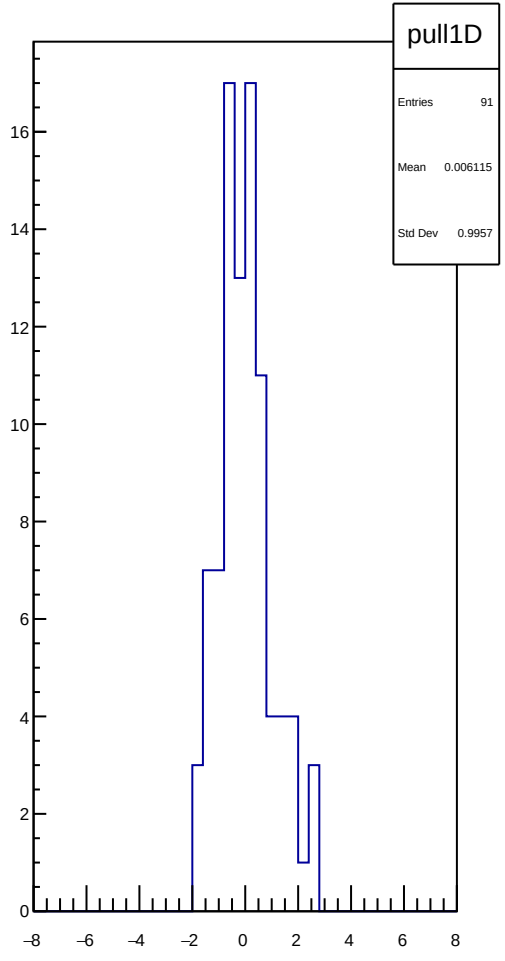

eigen_cor_asym_atr1_rms vs run
χ² / ndf 111.7 / 90
p0 2762 ± 2.089
2840
2820
2800
2780
2760
2740
2720
2700
2680

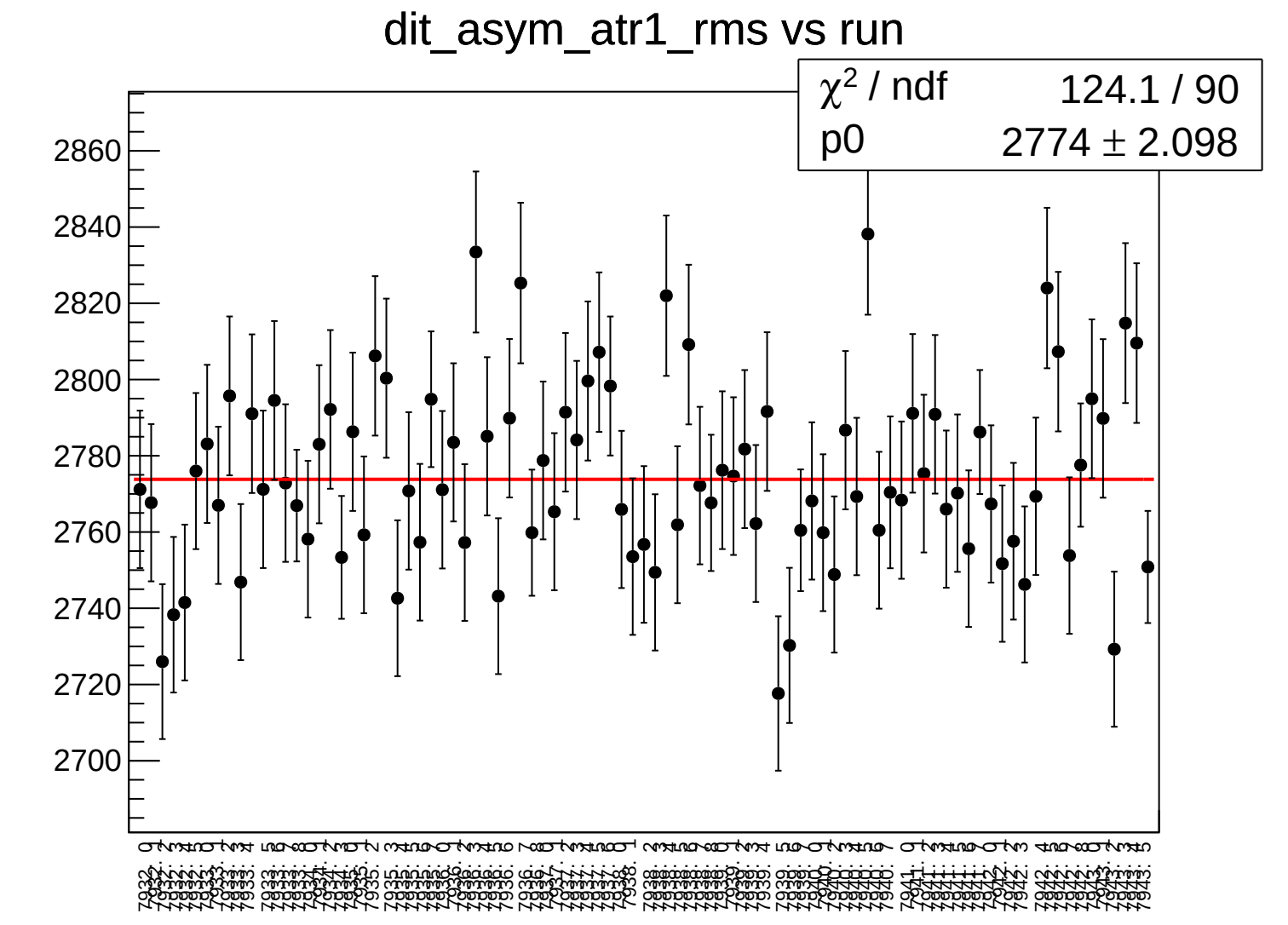

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 110 / 90
p0 −1251 ± 1858
pull
Entries 91
Mean 1178
Std Dev 0

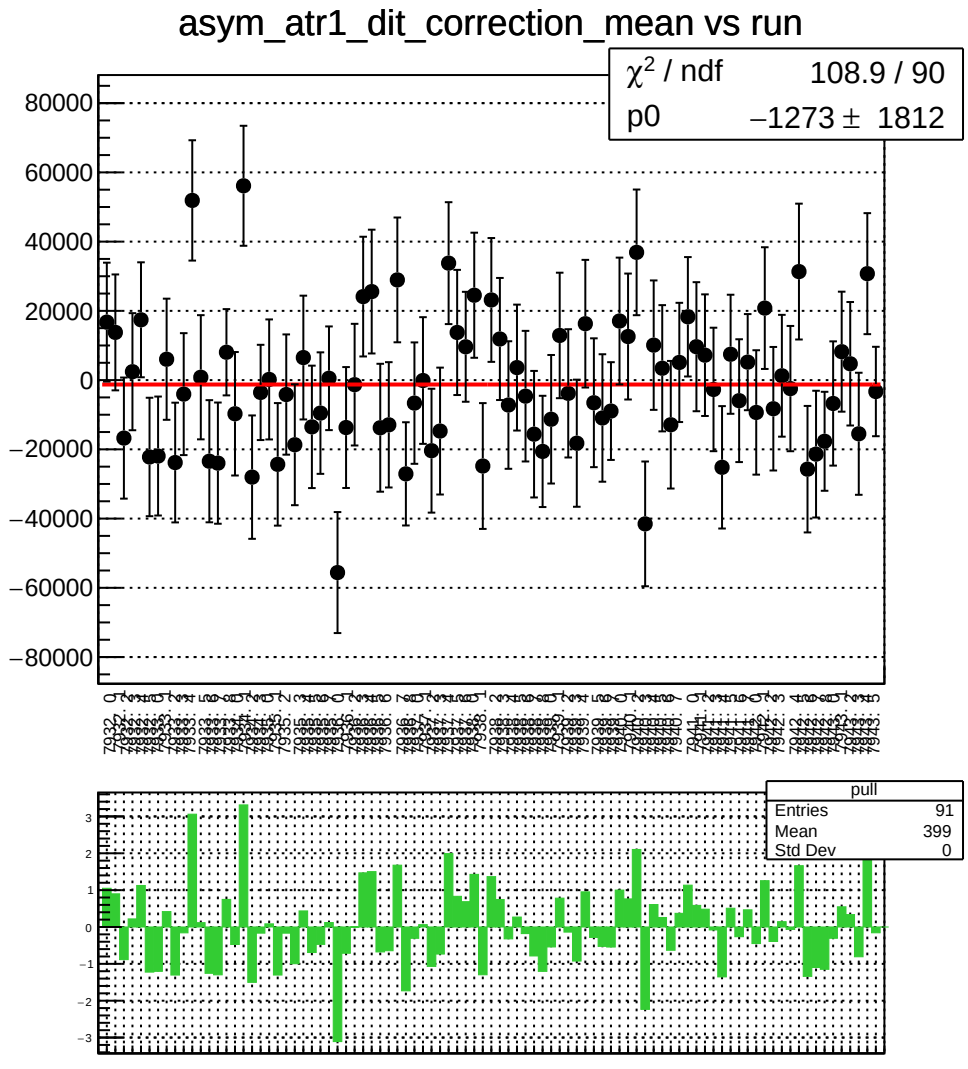

pull1D
Entries 91
Mean 0.001179
Std Dev 1.1

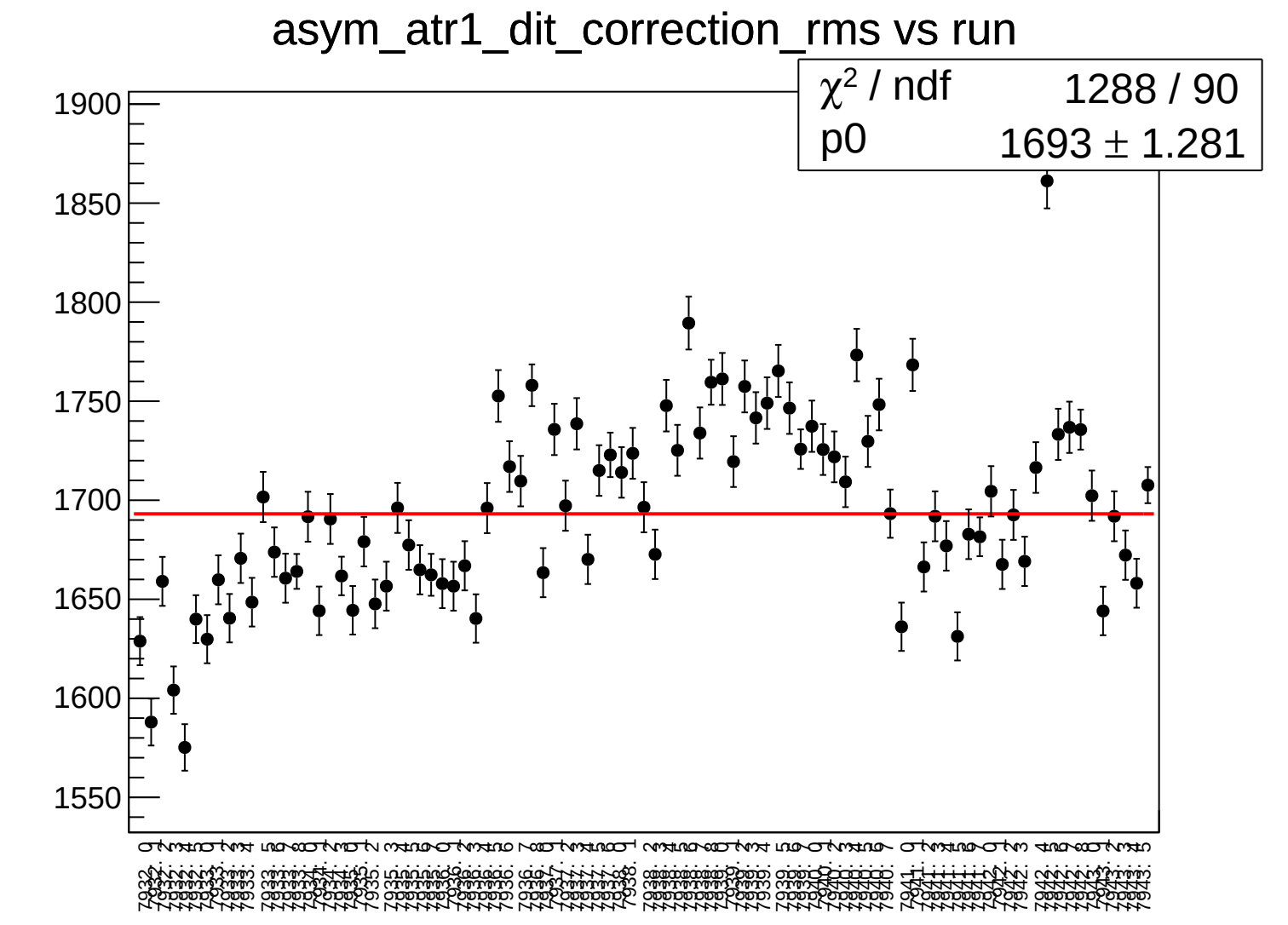

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 4859 / 90
p0 1735 ± 1.314
2100
2000
1900
1800
1700
1600
1500
1400

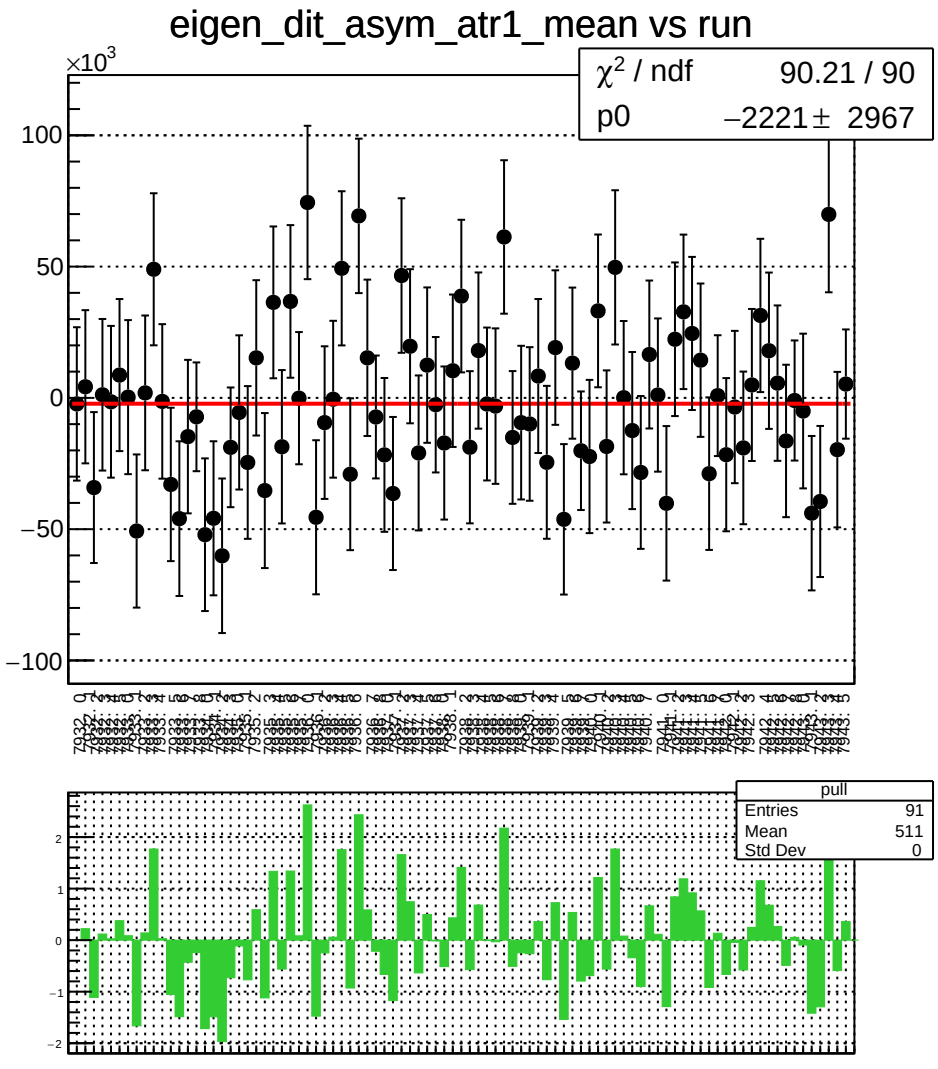

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 90.21 / 90
p0 −2221 ± 2967
100
50
0
−50
−100
pull
Entries 91
Mean 511
Std Dev 0
2
1
0
−1
−2

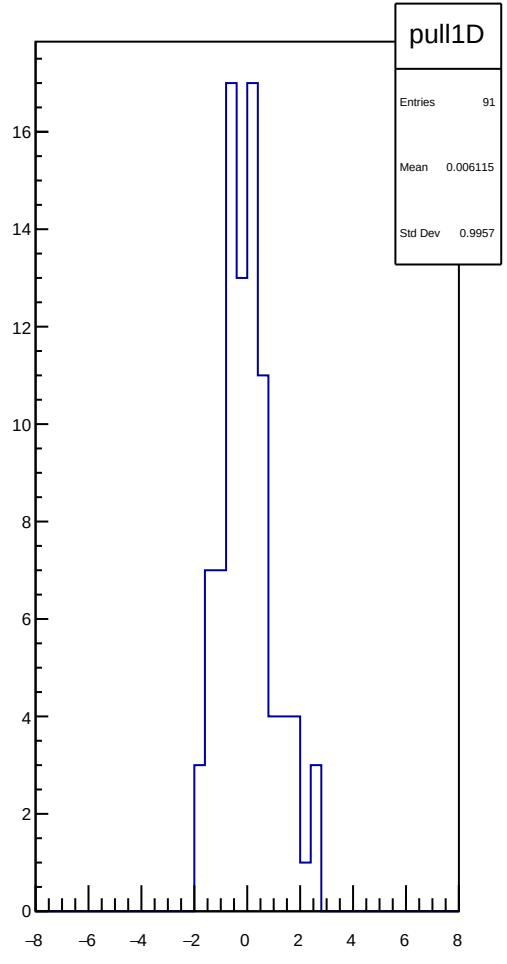

pull1D
Entries 91
Mean 0.006115
Std Dev 0.9957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

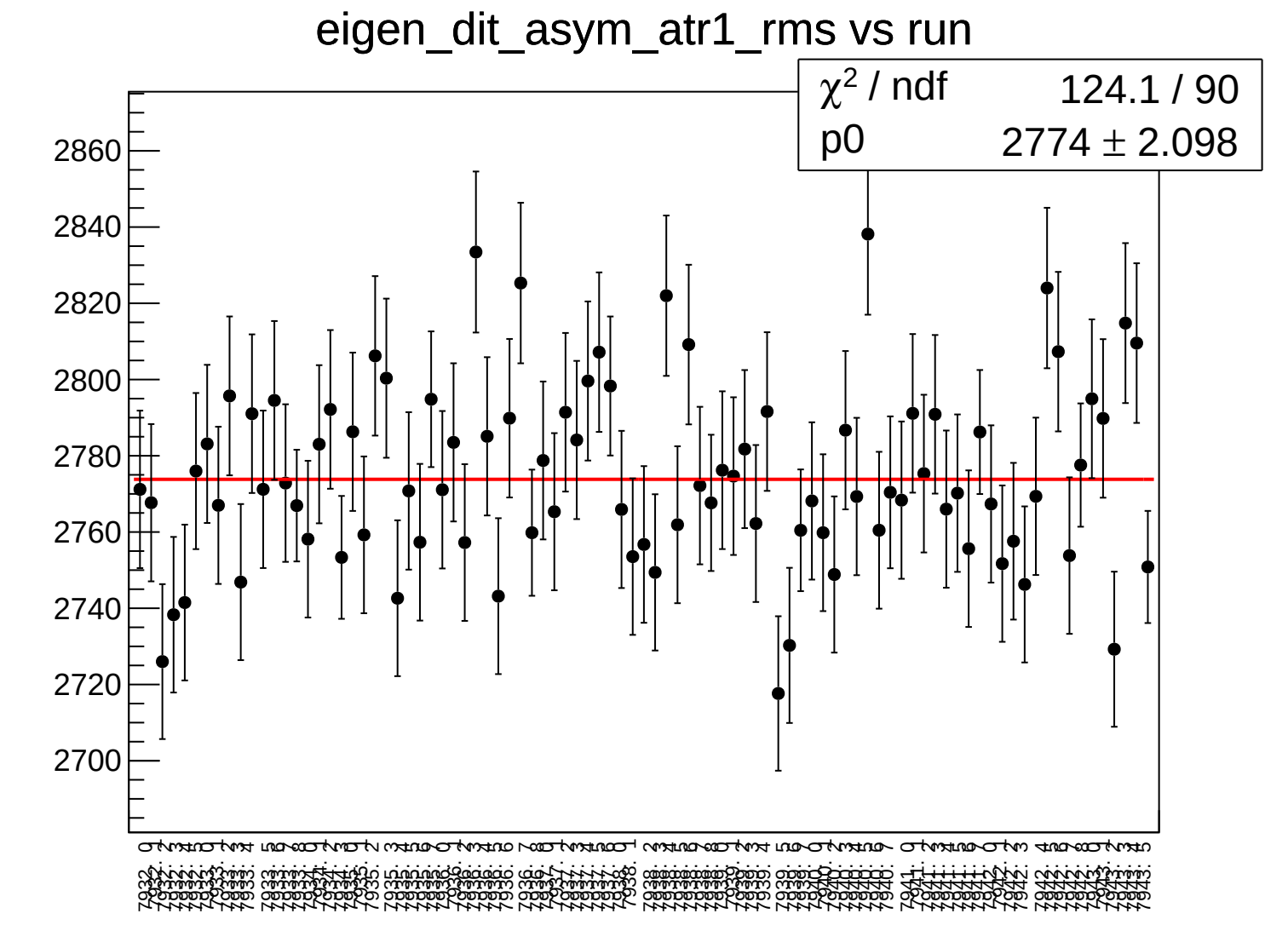

dit_asym_atr1_rms vs run
χ^2 / ndf 124.1 / 90
p0 2774 ± 2.098
2860
2840
2820
2800
2780
2760
2740
2720
2700

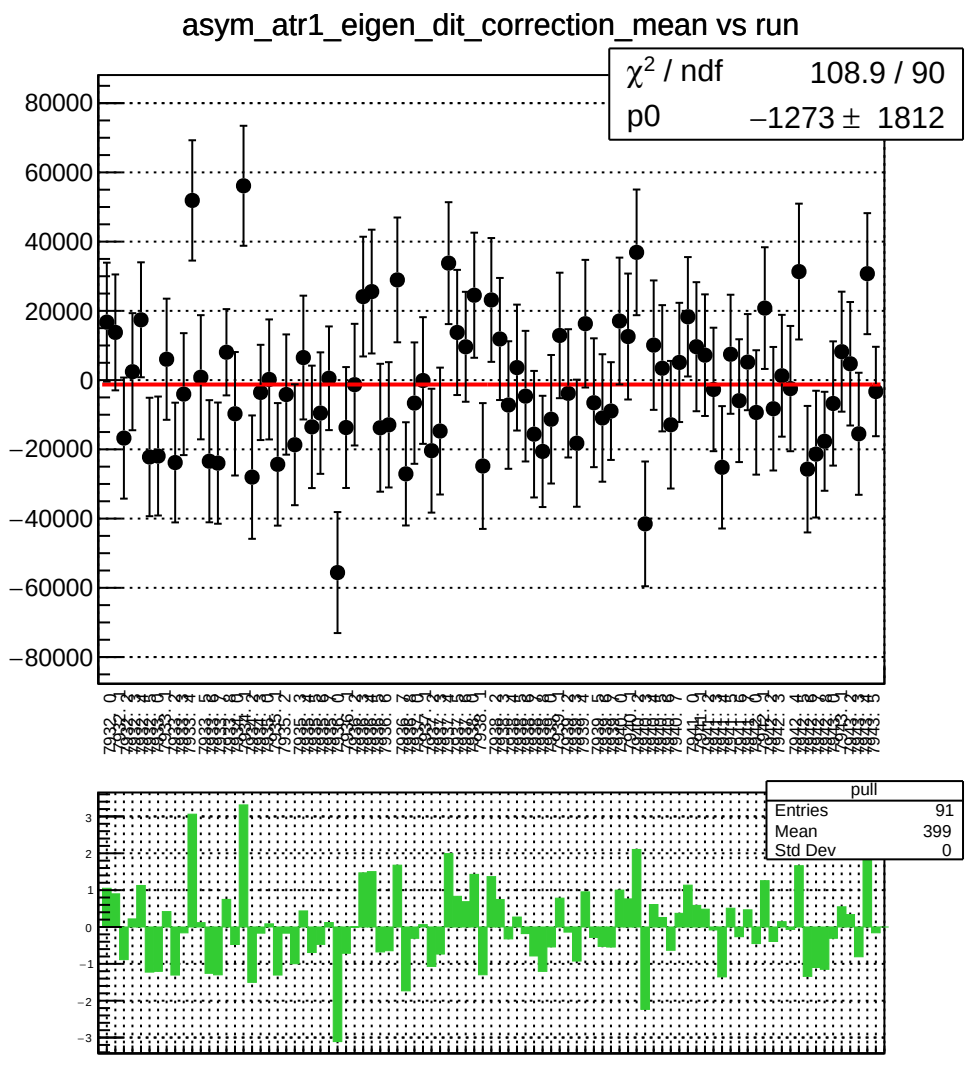

asym_atr1_dit_correction_mean vs run
χ² / ndf 108.9 / 90
p0 −1273 ± 1812
pull
Entries 91
Mean 399
Std Dev 0
pull1D
Entries 91
Mean 0.002965
Std Dev 1.094

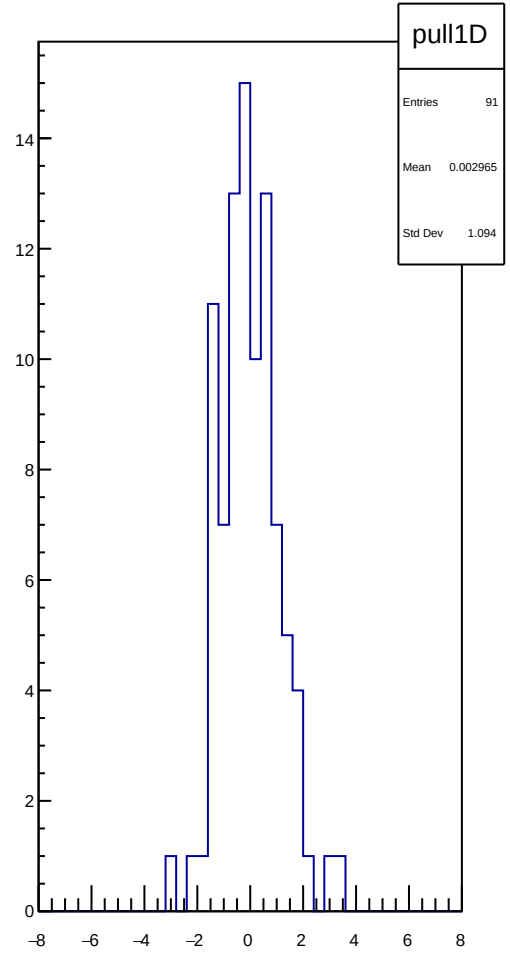

asym_atr1_dit_correction_rms vs run
χ² / ndf 1288 / 90
p0 1693 ± 1.281
1900
1850
1800
1750
1700
1650
1600
1550

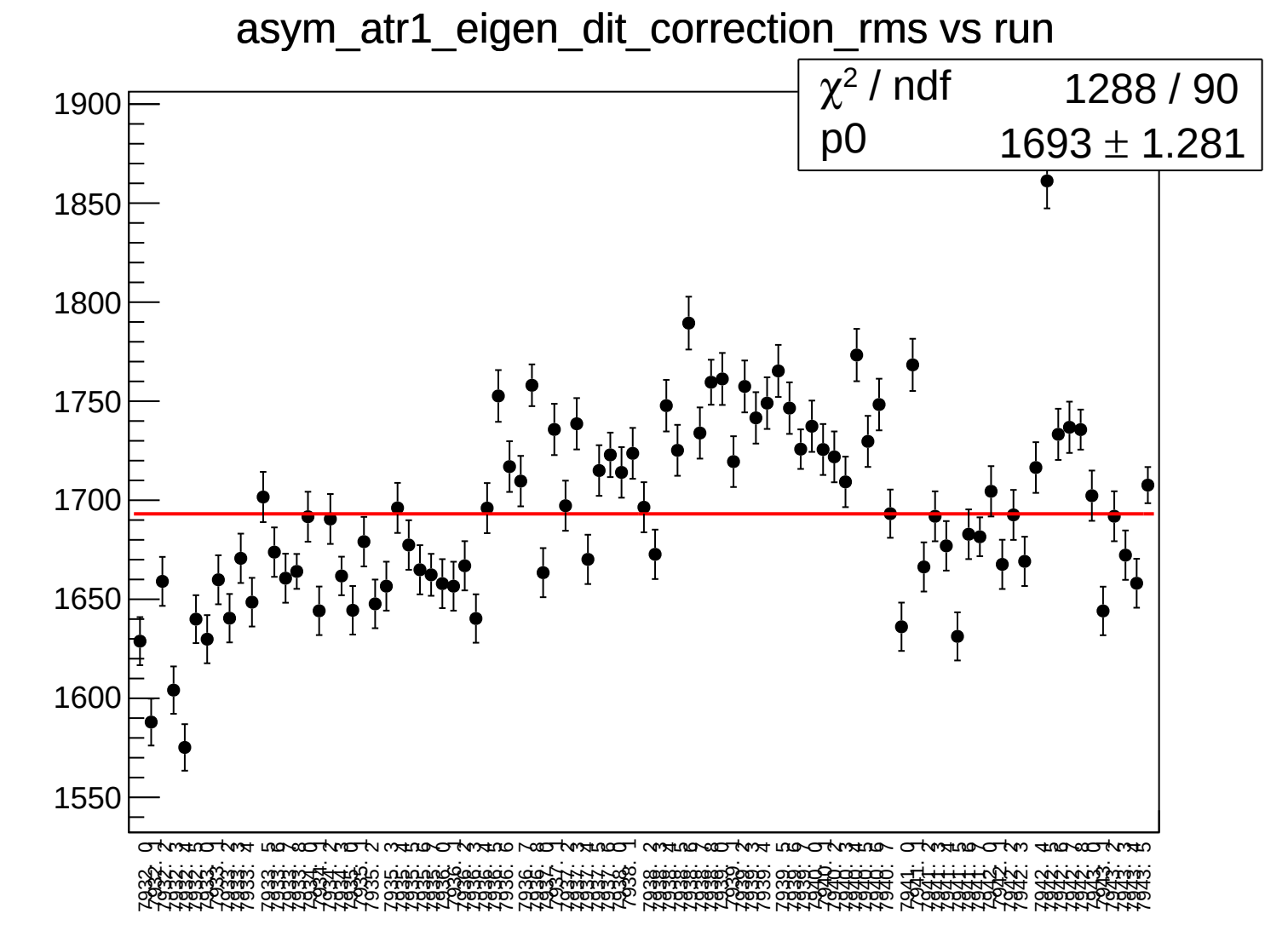

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 90.21 / 90
p0 −2221 ± 2967
100
50
0
−50
−100
pull
Entries 91
Mean 511
Std Dev 0
2
1
0
−1
−2

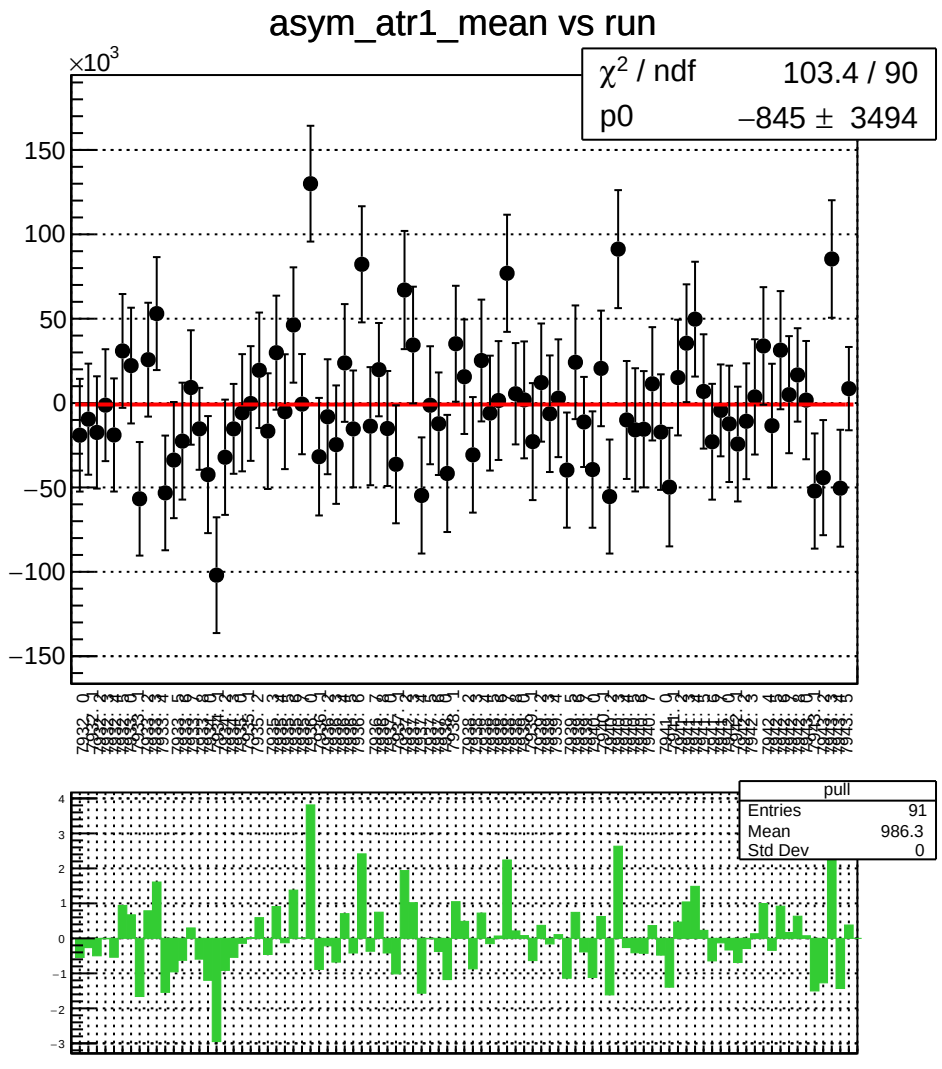

pull1D
Entries 91
Mean 0.006115
Std Dev 0.9957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

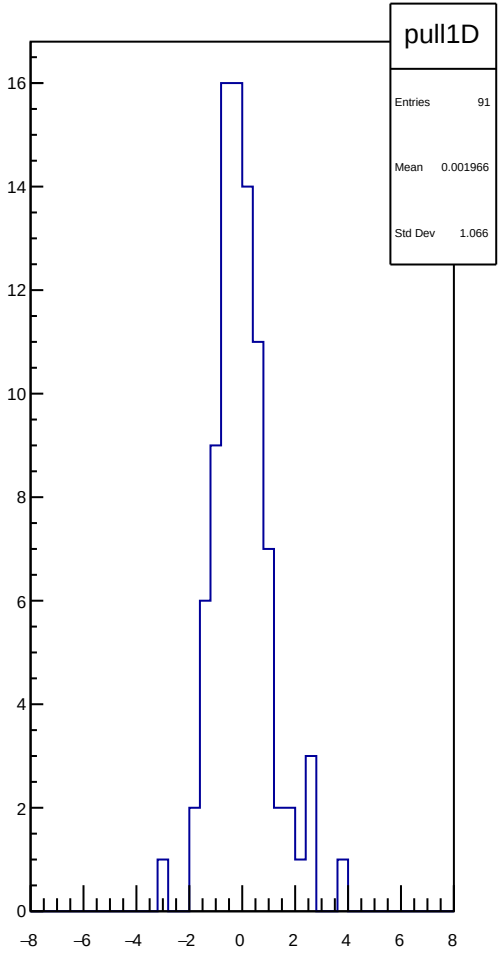

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 124.1 / 90
p0 2774 ± 2.098
2860
2840
2820
2800
2780
2760
2740
2720
2700

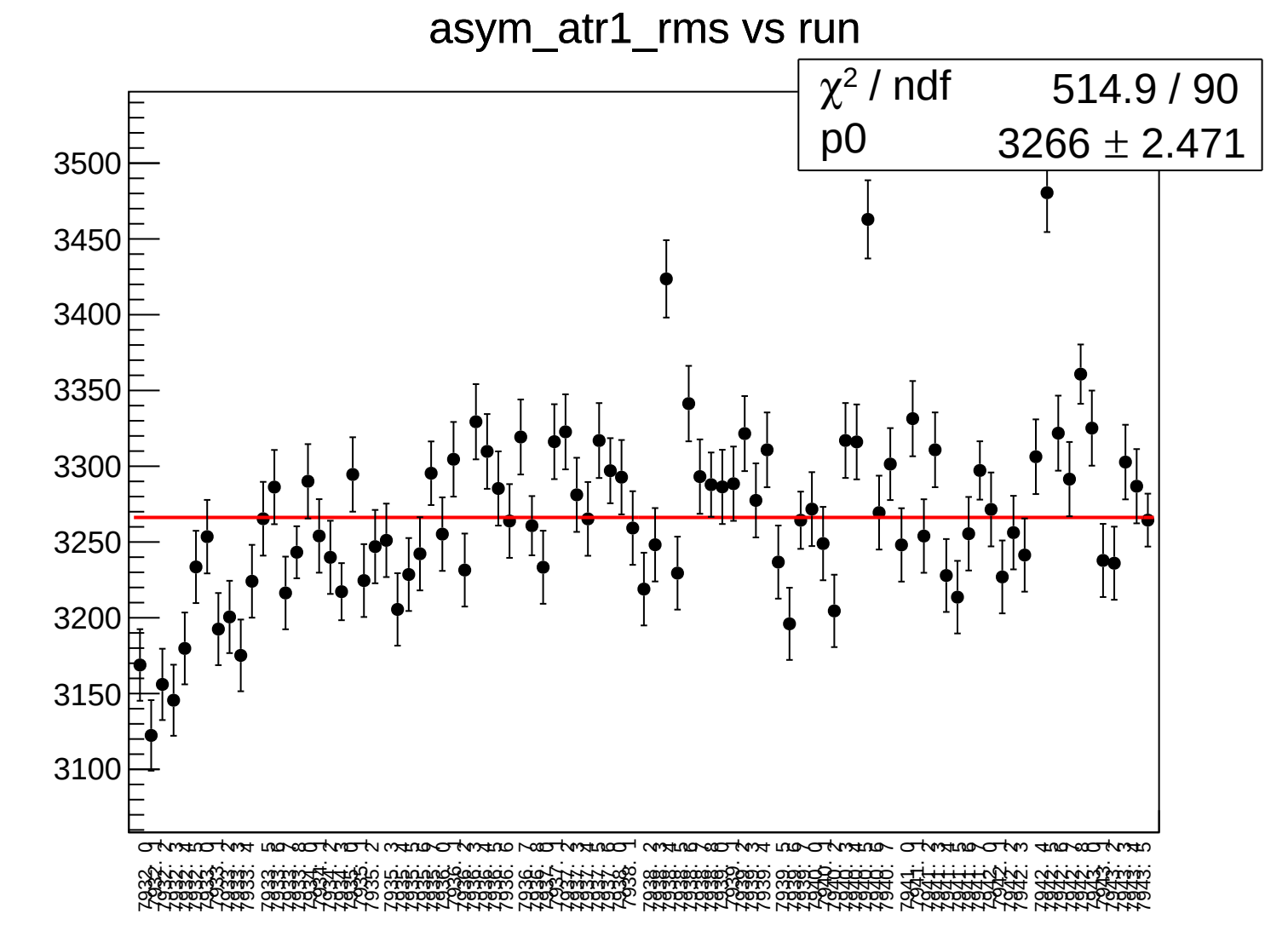

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 108.9 / 90
p0 −1273 ± 1812
pull
Entries 91
Mean 399
Std Dev 0

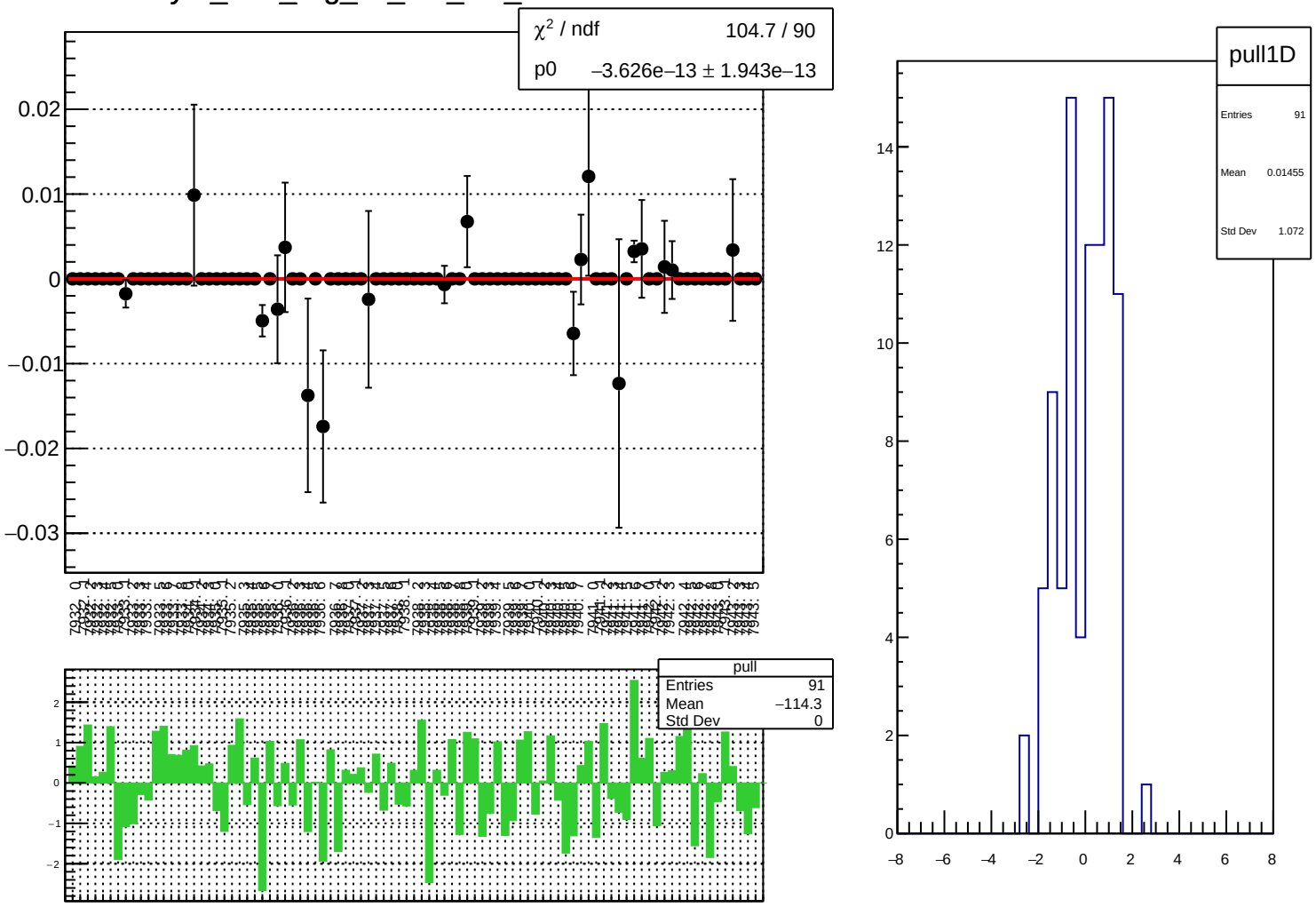

pull1D
Entries 91
Mean 0.002965
Std Dev 1.094

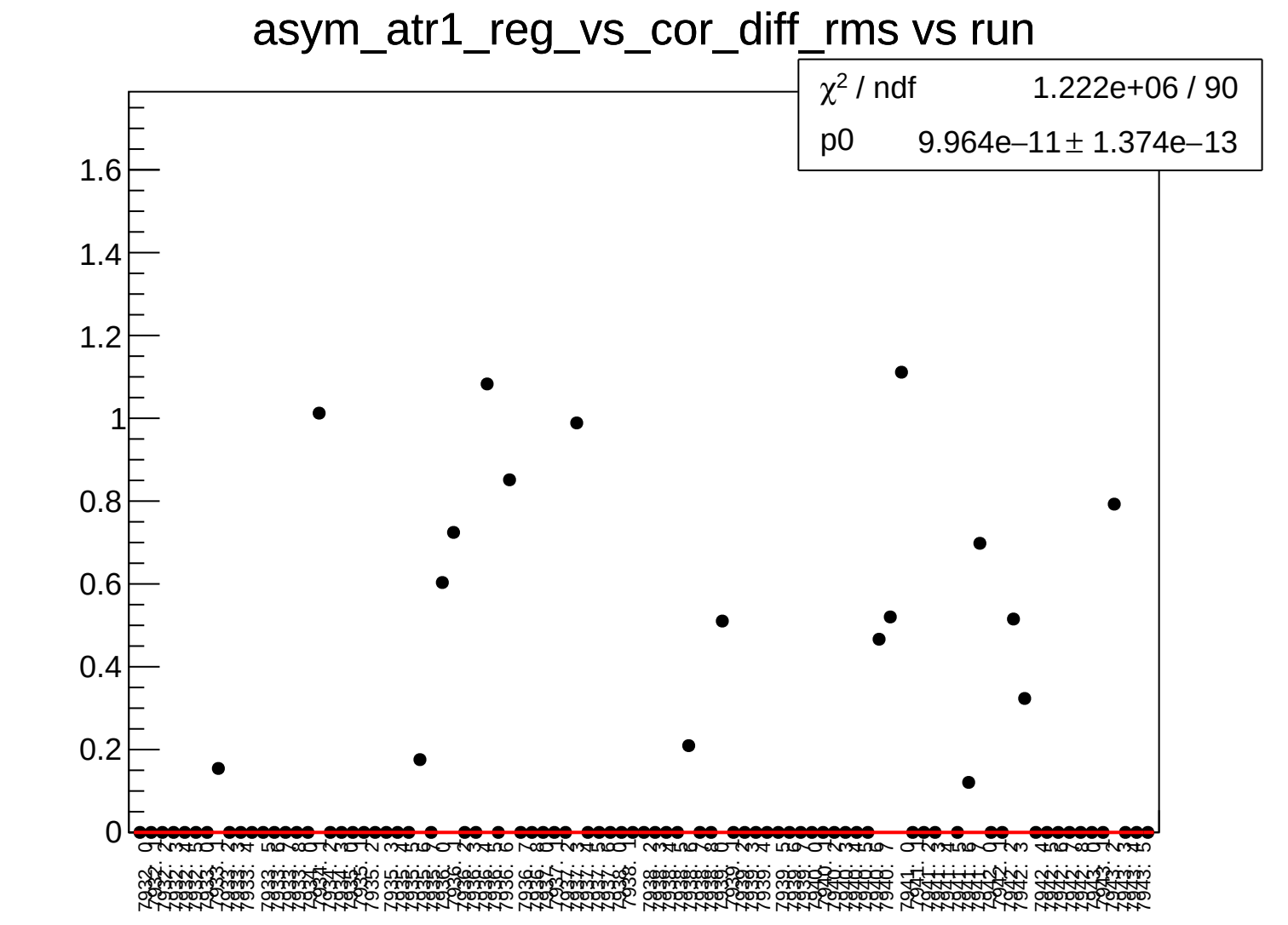

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1288 / 90
p0 1693 ± 1.281
1900
1850
1800
1750
1700
1650
1600
1550

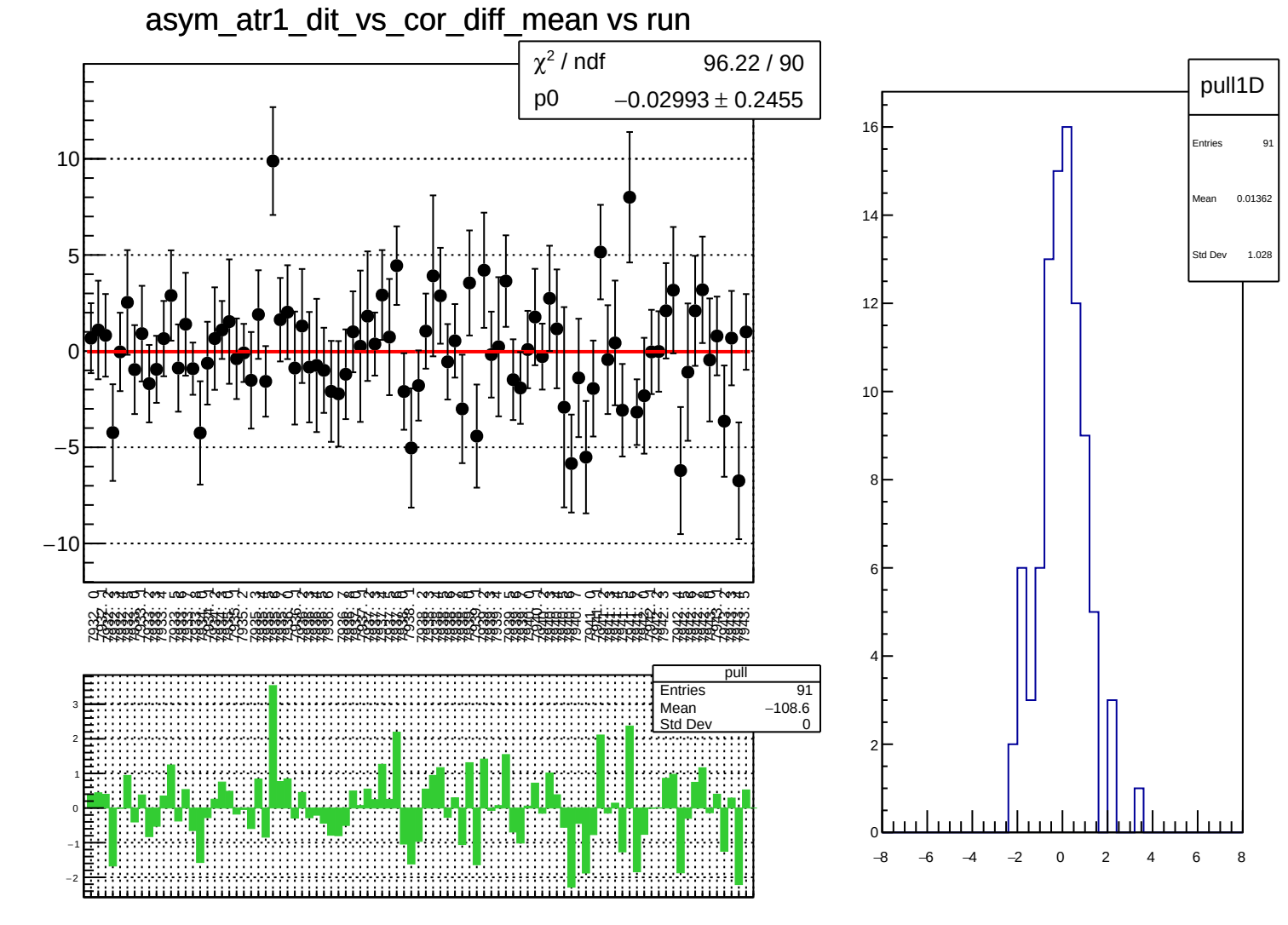

asym_atr1_mean vs run
×10^3
χ^2 / ndf 103.4 / 90
p0 −845 ± 3494
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 986.3
Std Dev 0
4
3
2
1
0
−1
−2
−3

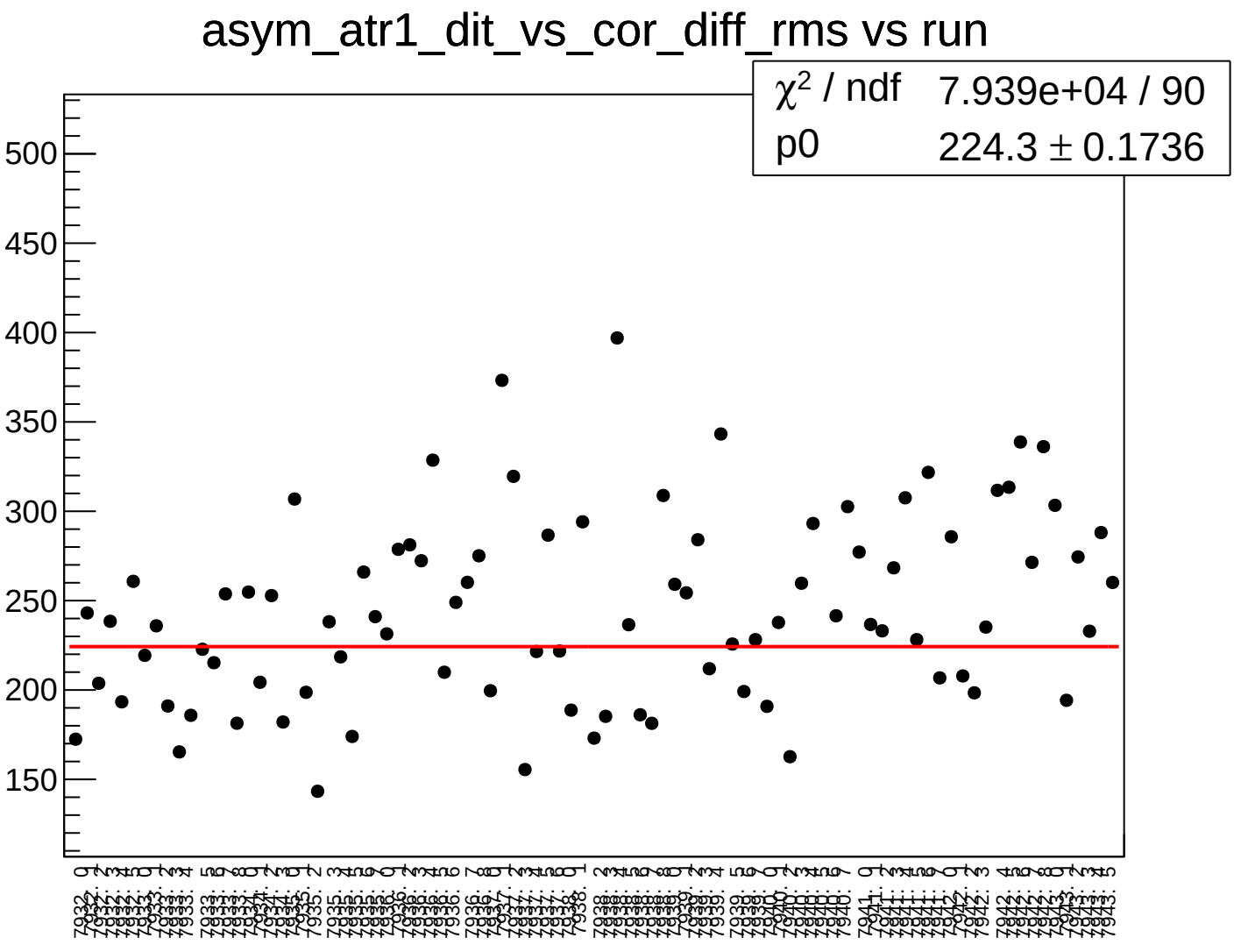

pull1D
Entries 91
Mean 0.001966
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

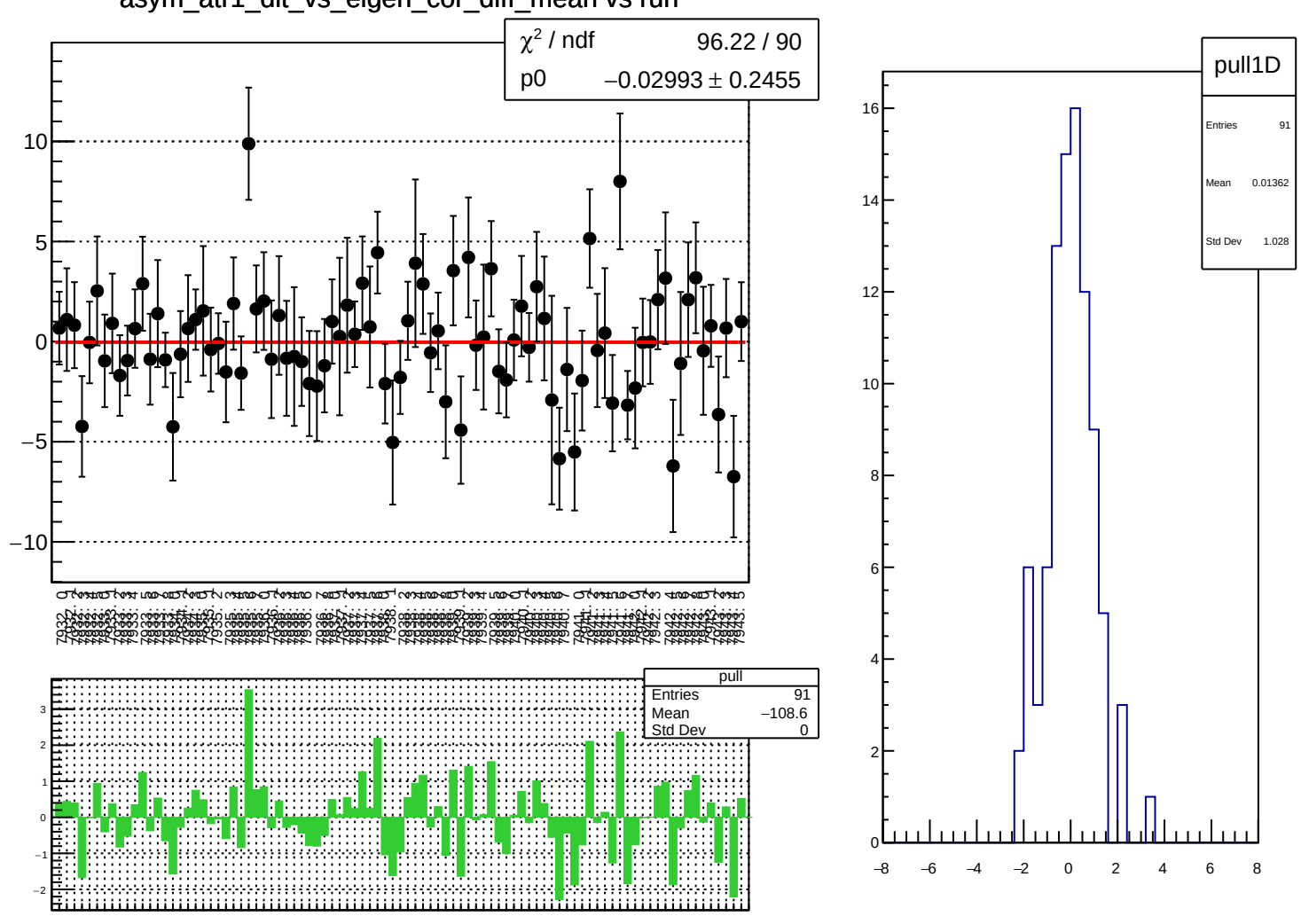

asym_atr1_rms vs run
χ² / ndf 514.9 / 90
p0 3266 ± 2.471
3500
3450
3400
3350
3300
3250
3200
3150
3100

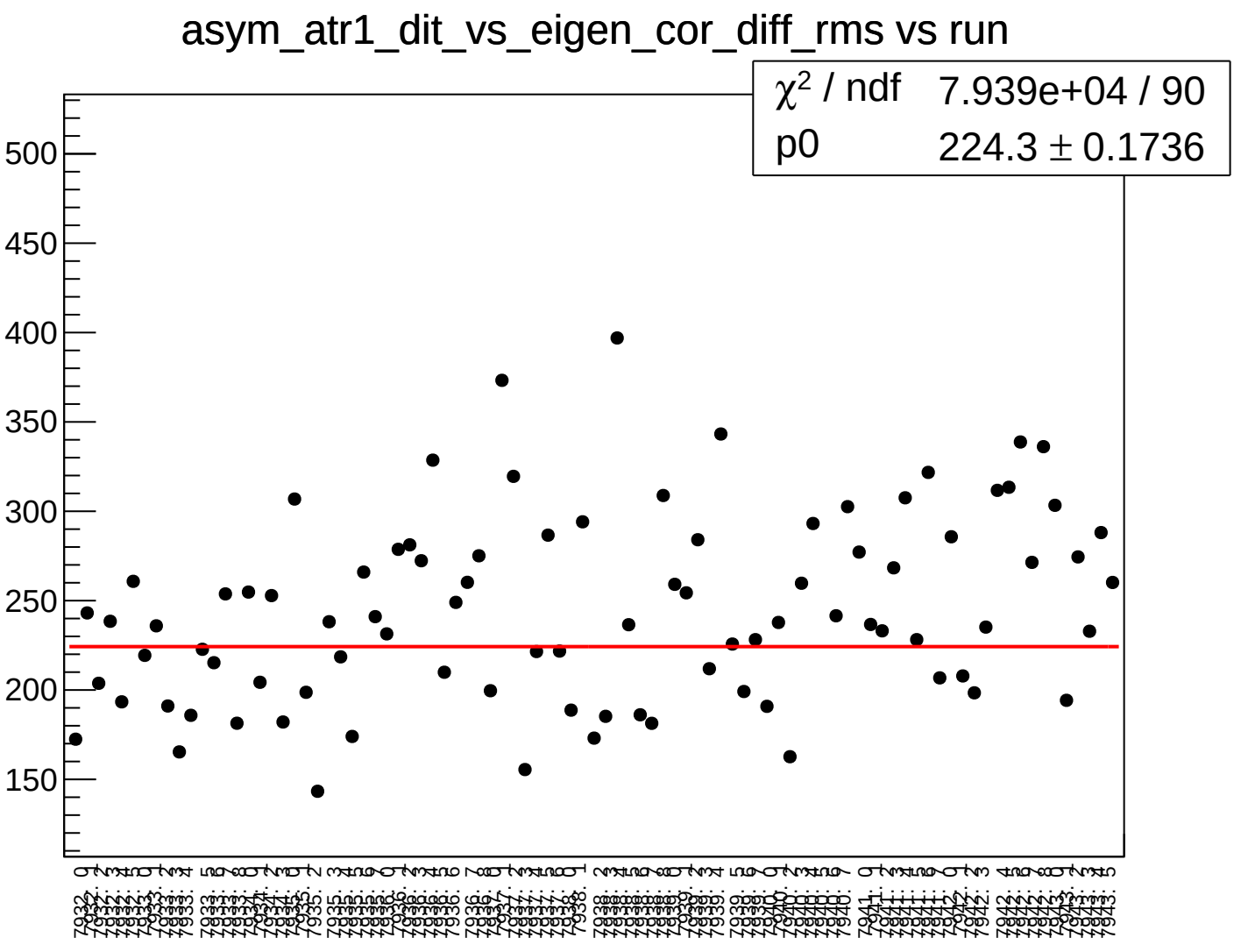

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −3.626e−13 ± 1.943e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean −114.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01455
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

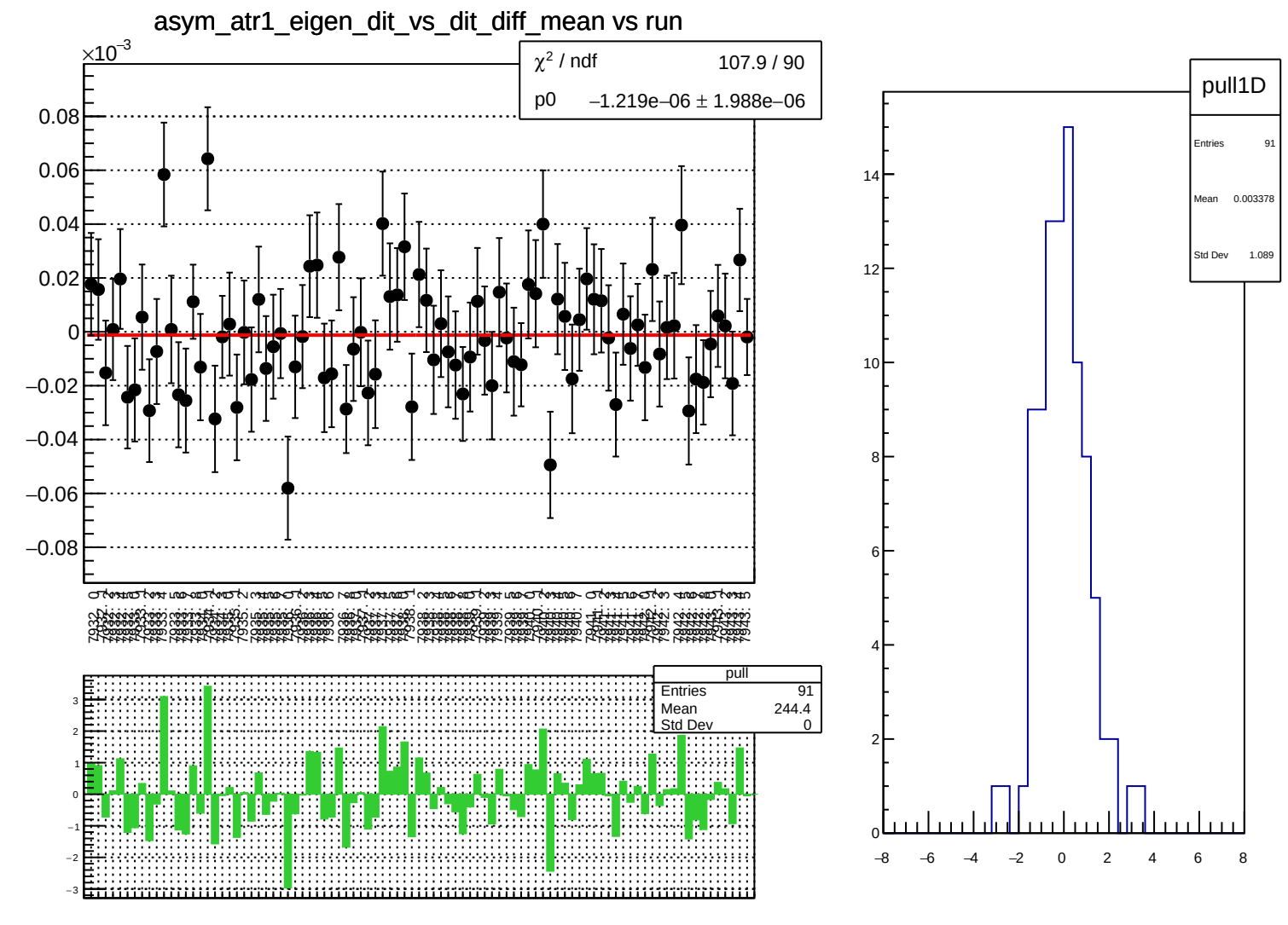

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.222e+06 / 90
p0 9.964e−11 ± 1.374e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

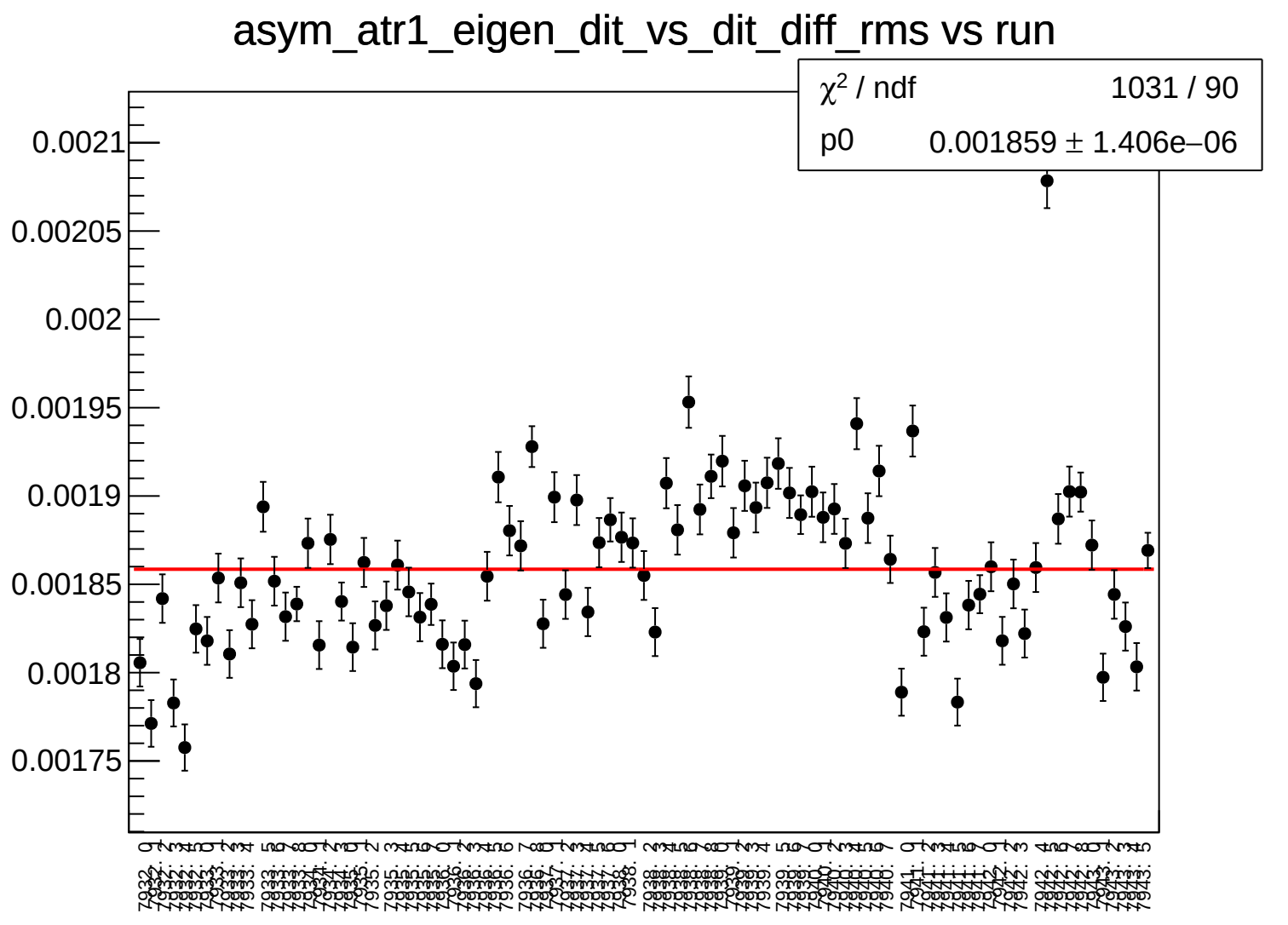

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 96.22 / 90
p0 −0.02993 ± 0.2455
pull
Entries 91
Mean −108.6
Std Dev 0
pull1D
Entries 91
Mean 0.01362
Std Dev 1.028

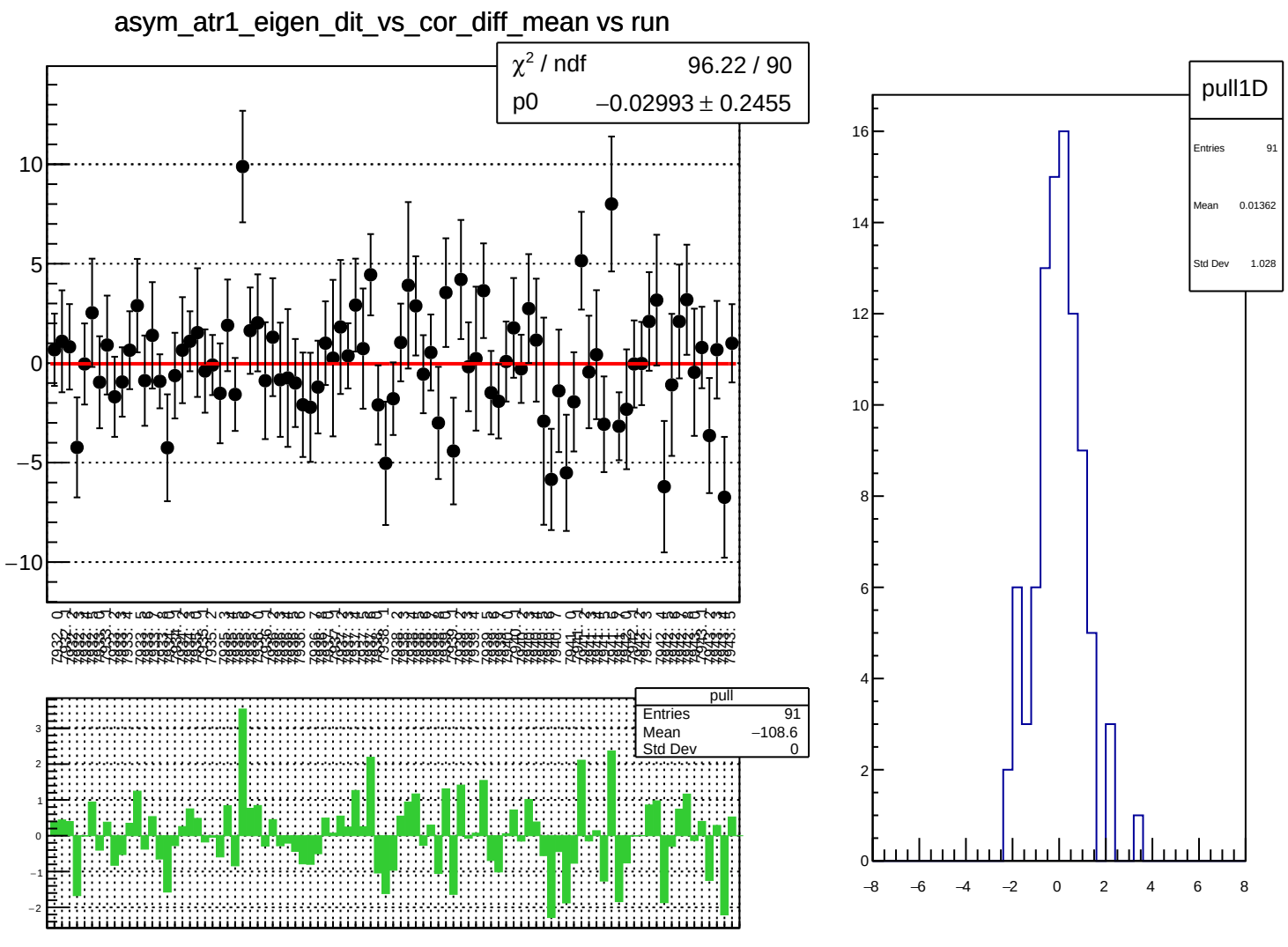

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.939e+04 / 90
p0 224.3 ± 0.1736
500
450
400
350
300
250
200
150

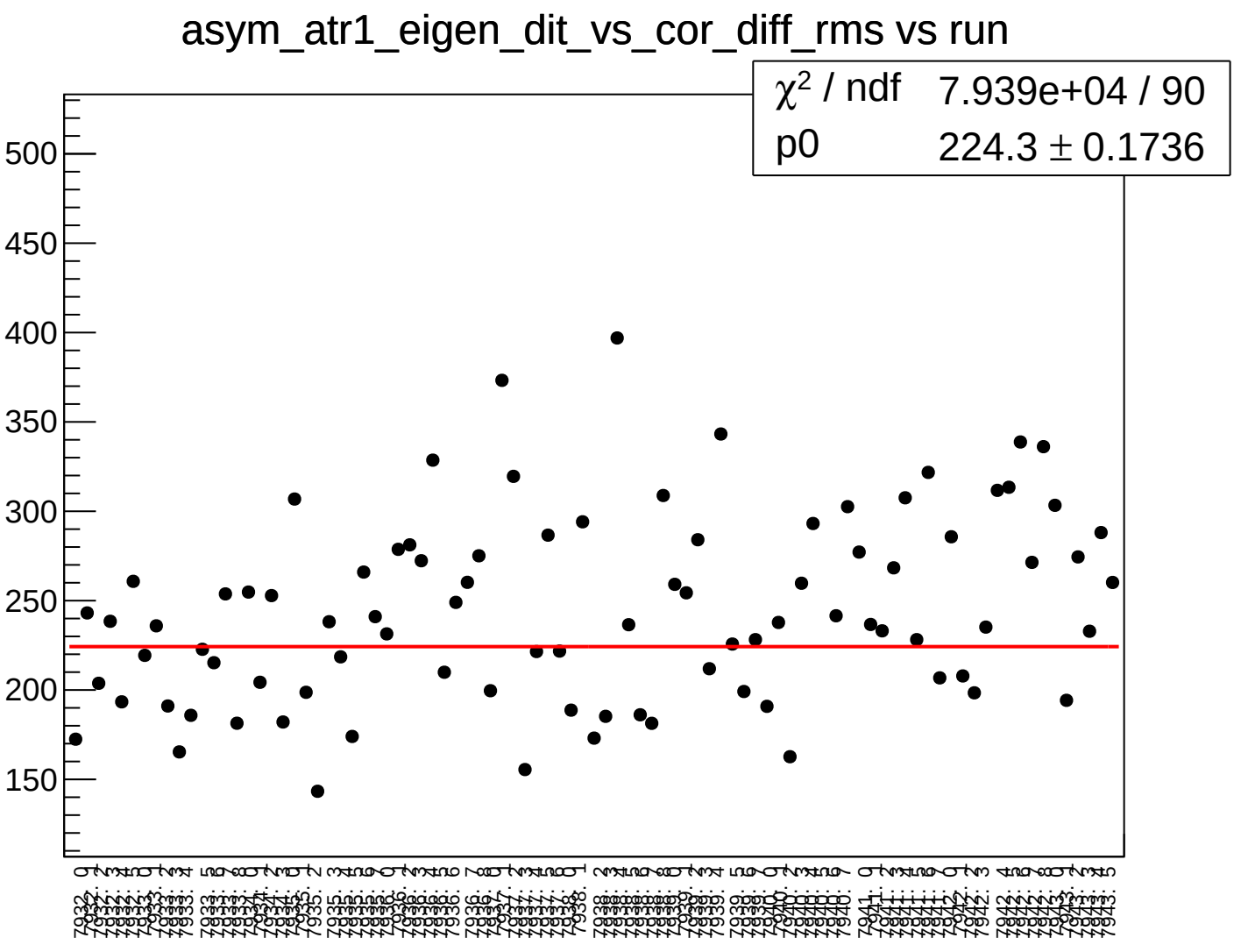

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.22 / 90
p0 −0.02993 ± 0.2455
pull
Entries 91
Mean −108.6
Std Dev 0
pull1D
Entries 91
Mean 0.01362
Std Dev 1.028

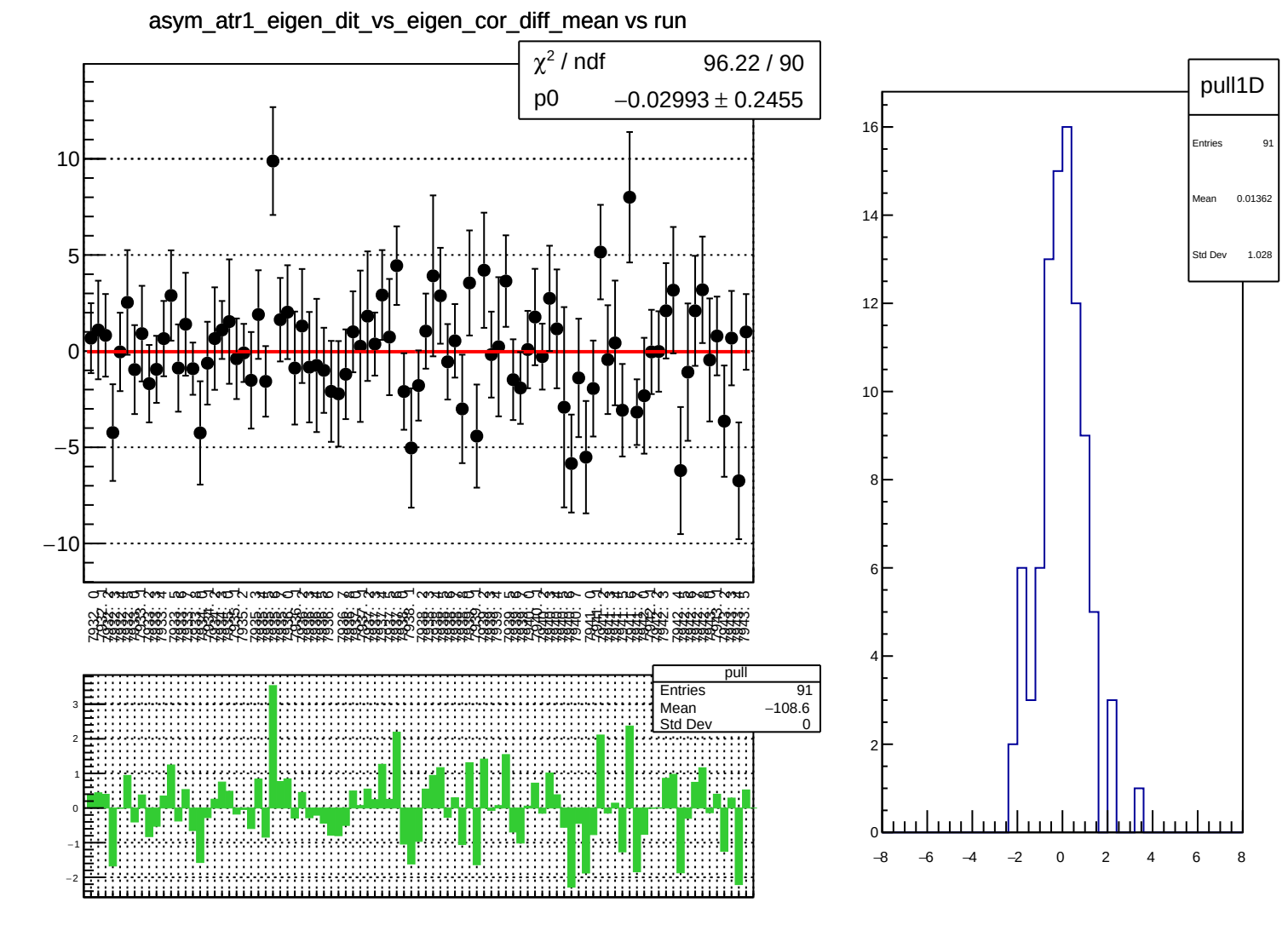

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.939e+04 / 90
p0 224.3 ± 0.1736
500
450
400
350
300
250
200
150

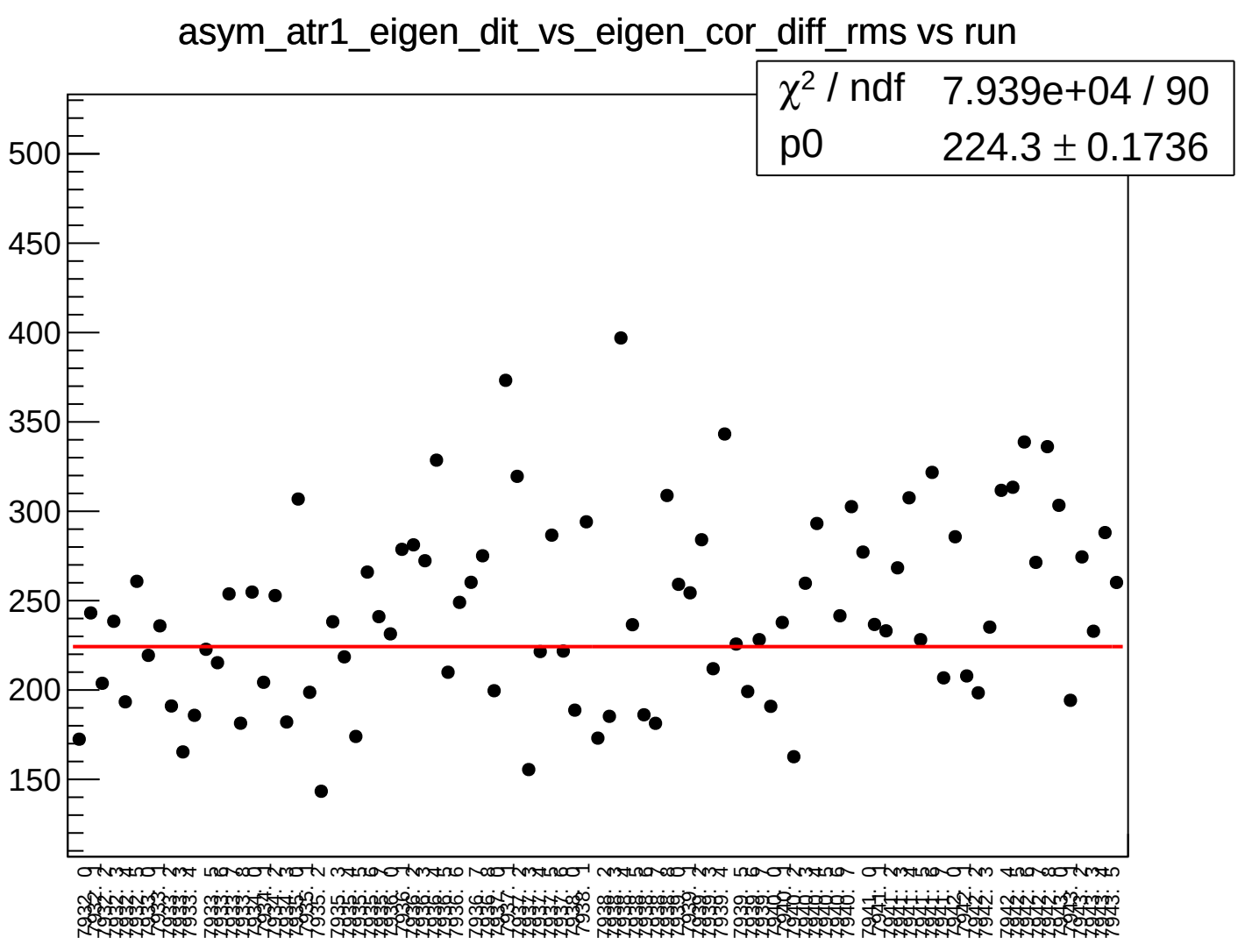

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.9 / 90
p0 −1.219e−06 ± 1.988e−06
pull
Entries 91
Mean 244.4
Std Dev 0
pull1D
Entries 91
Mean 0.003378
Std Dev 1.089

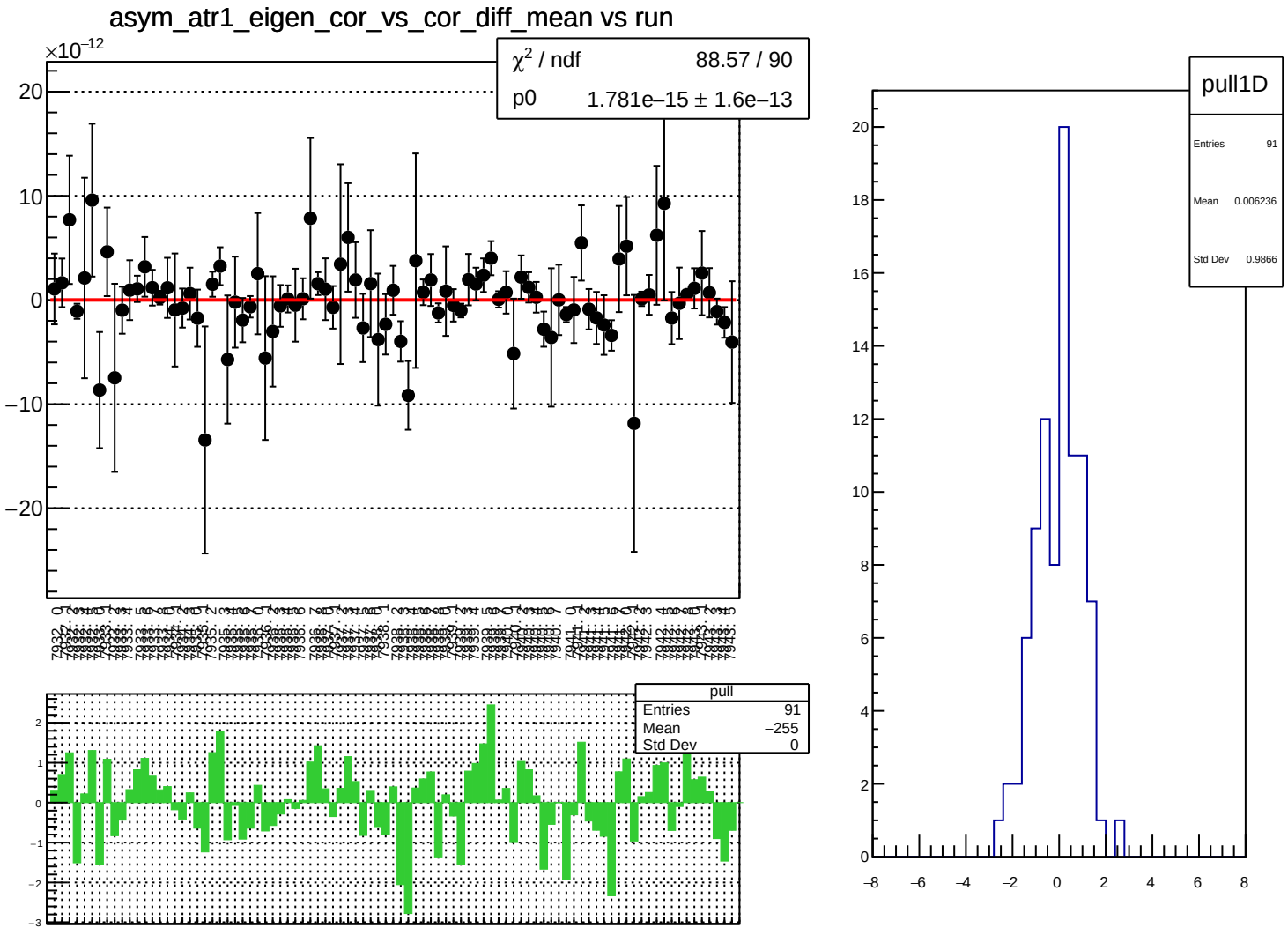

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1031 / 90
p0 0.001859 ± 1.406e−06
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175

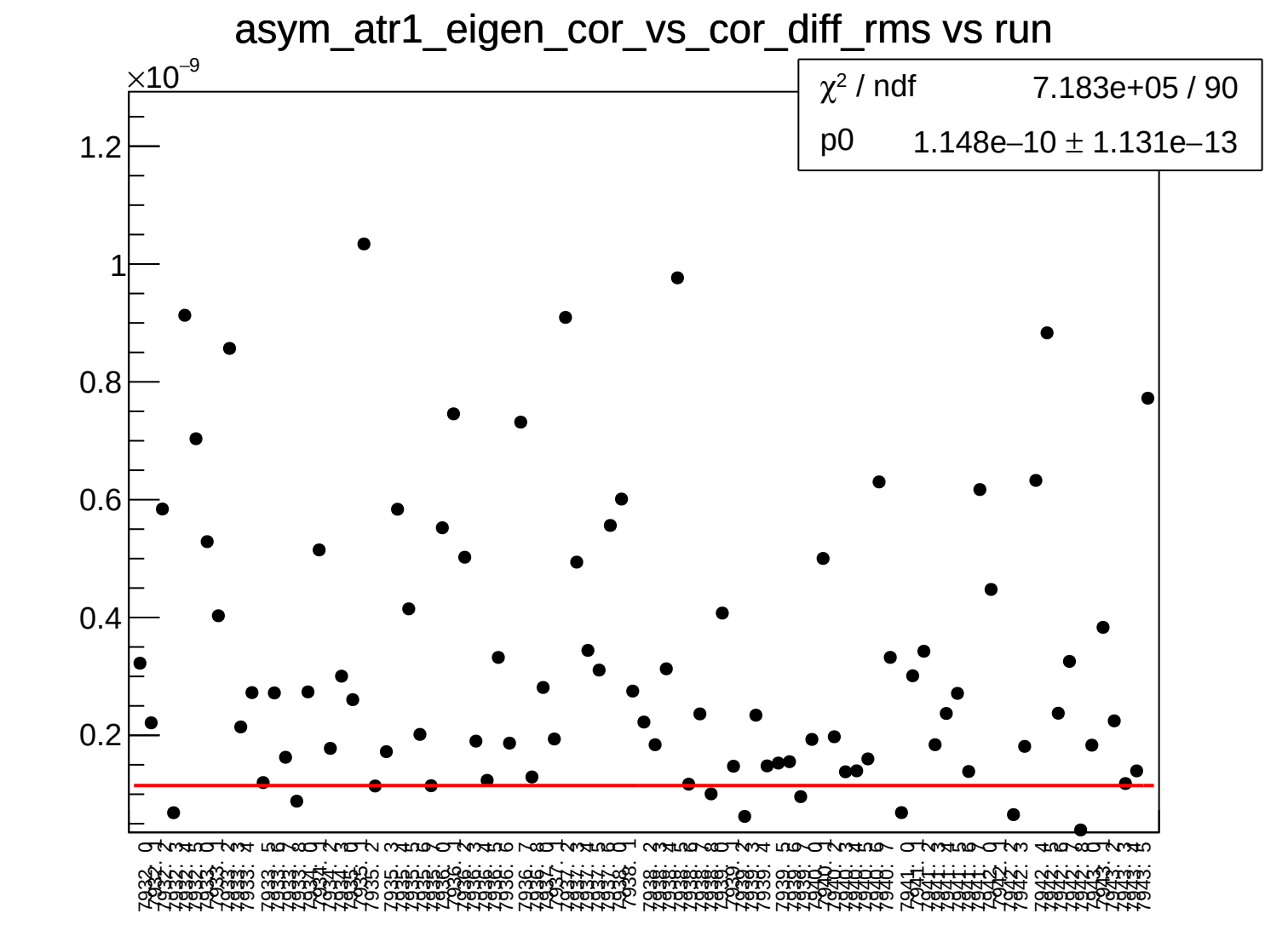

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.22 / 90
p0 −0.02993 ± 0.2455
pull
Entries 91
Mean −108.6
Std Dev 0
pull1D
Entries 91
Mean 0.01362
Std Dev 1.028

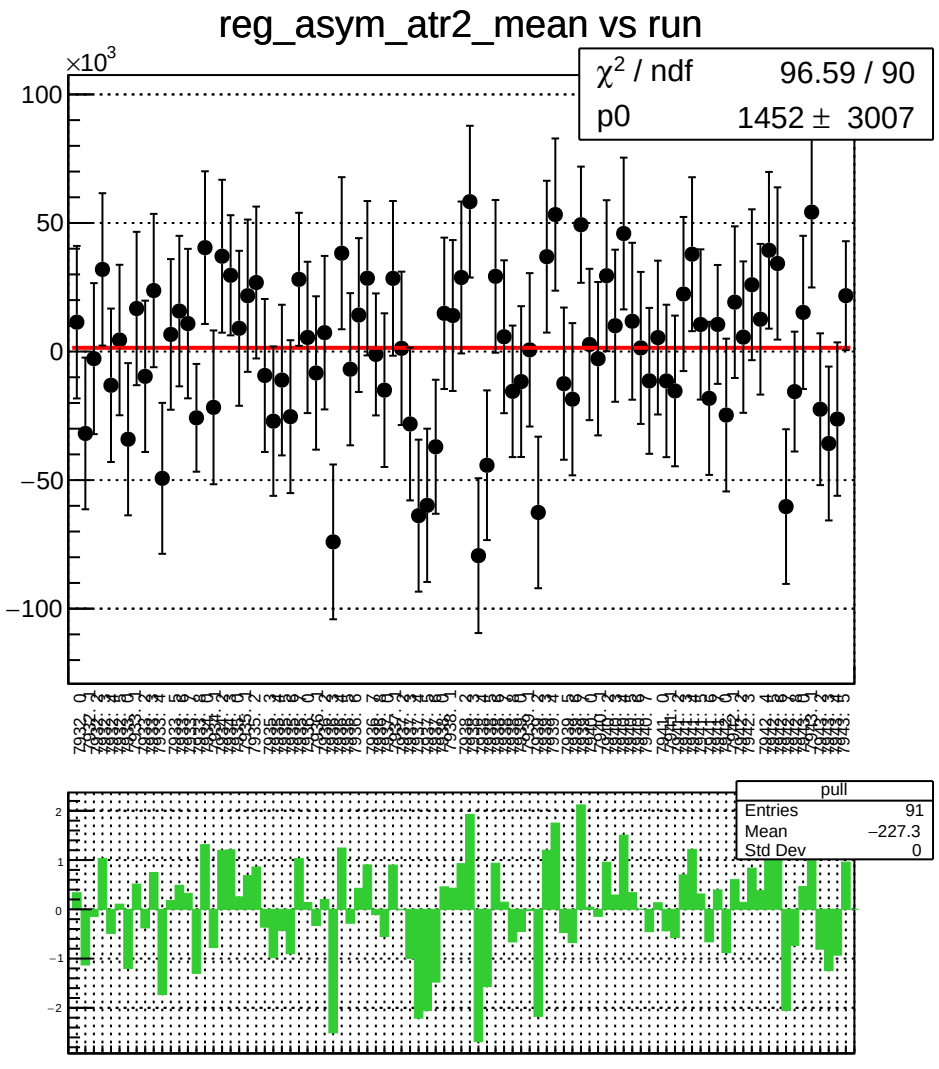

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.939e+04 / 90
p0 224.3 ± 0.1736
500
450
400
350
300
250
200
150

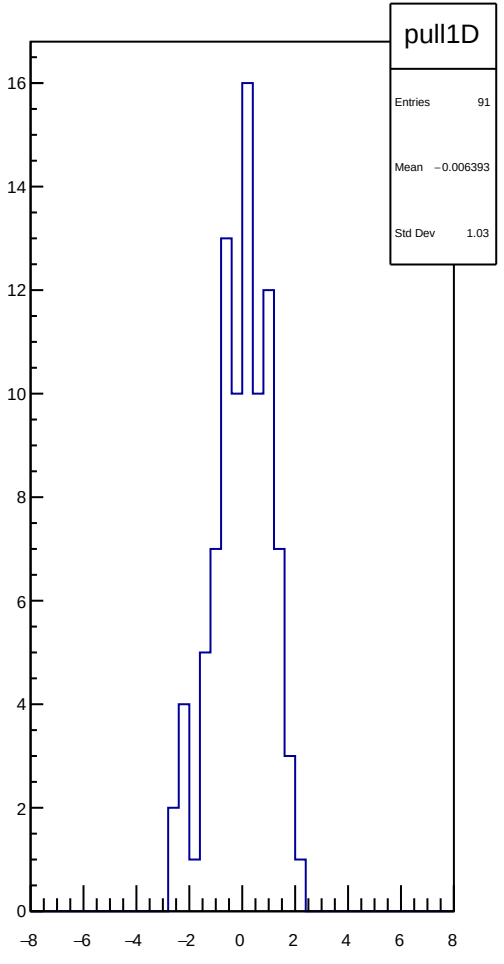

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.22 / 90
p0 −0.02993 ± 0.2455
pull
Entries 91
Mean −108.6
Std Dev 0
pull1D
Entries 91
Mean 0.01362
Std Dev 1.028

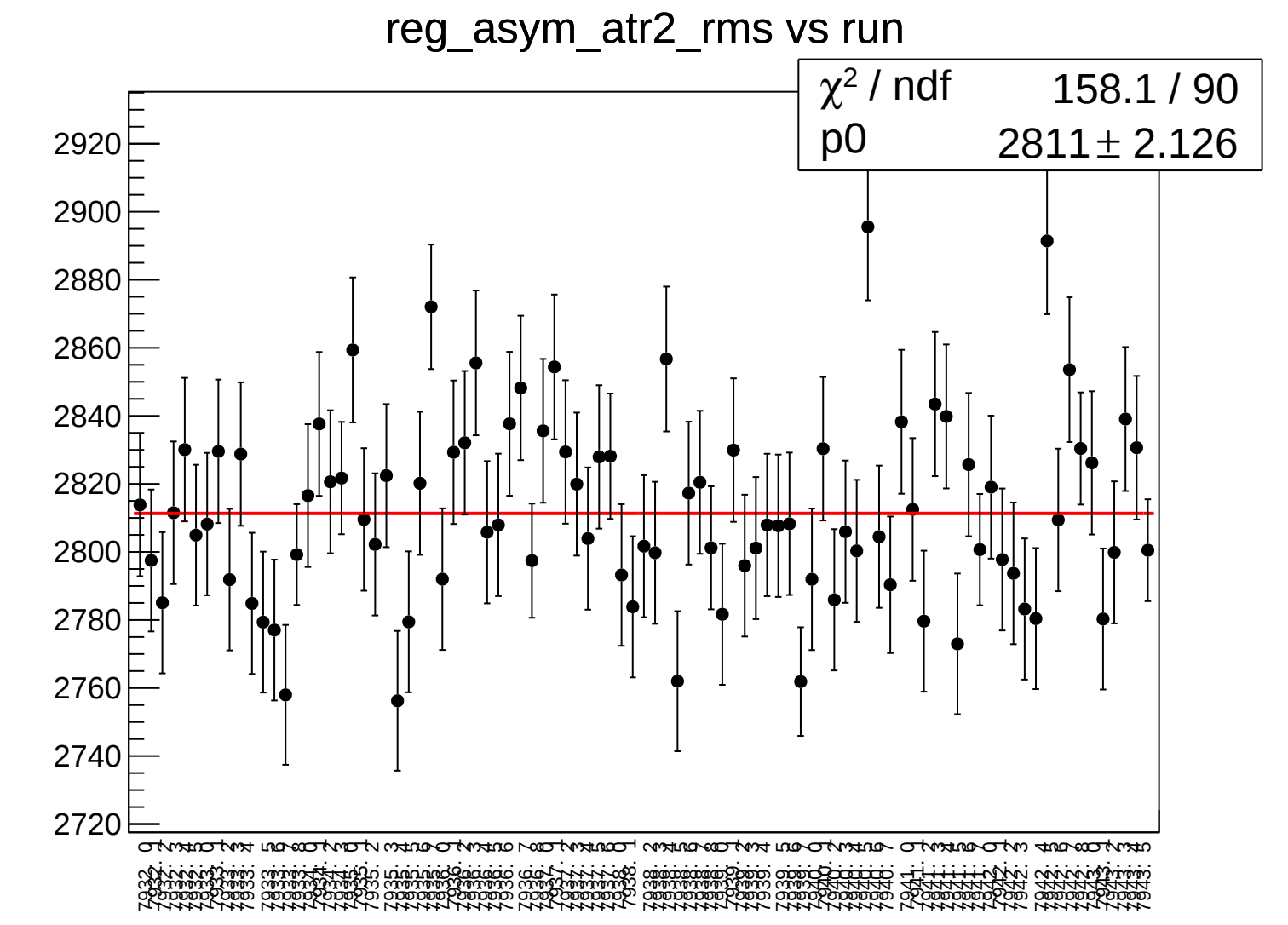

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.939e+04 / 90
p0 224.3 ± 0.1736
500
450
400
350
300
250
200
150

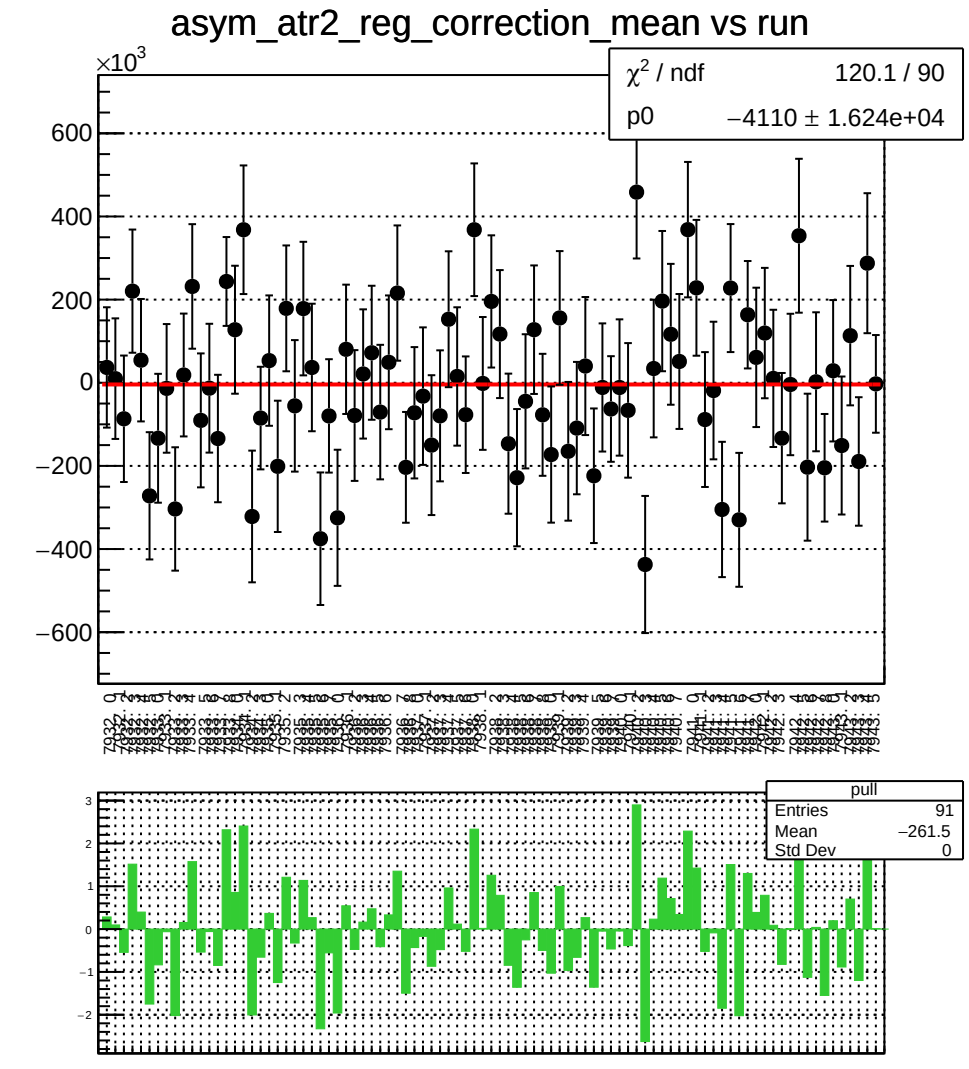

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.57 / 90
p0 1.781e−15 ± 1.6e−13
20
10
0
−10
−20
pull
Entries 91
Mean −255
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.006236
Std Dev 0.9866
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

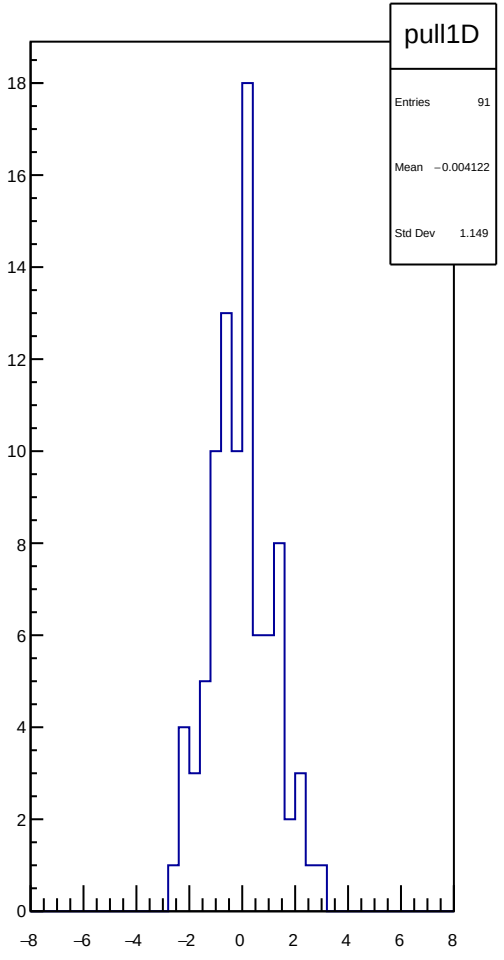

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.183e+05 / 90
p0 1.148e−10 ± 1.131e−13
1.2
1
0.8
0.6
0.4
0.2

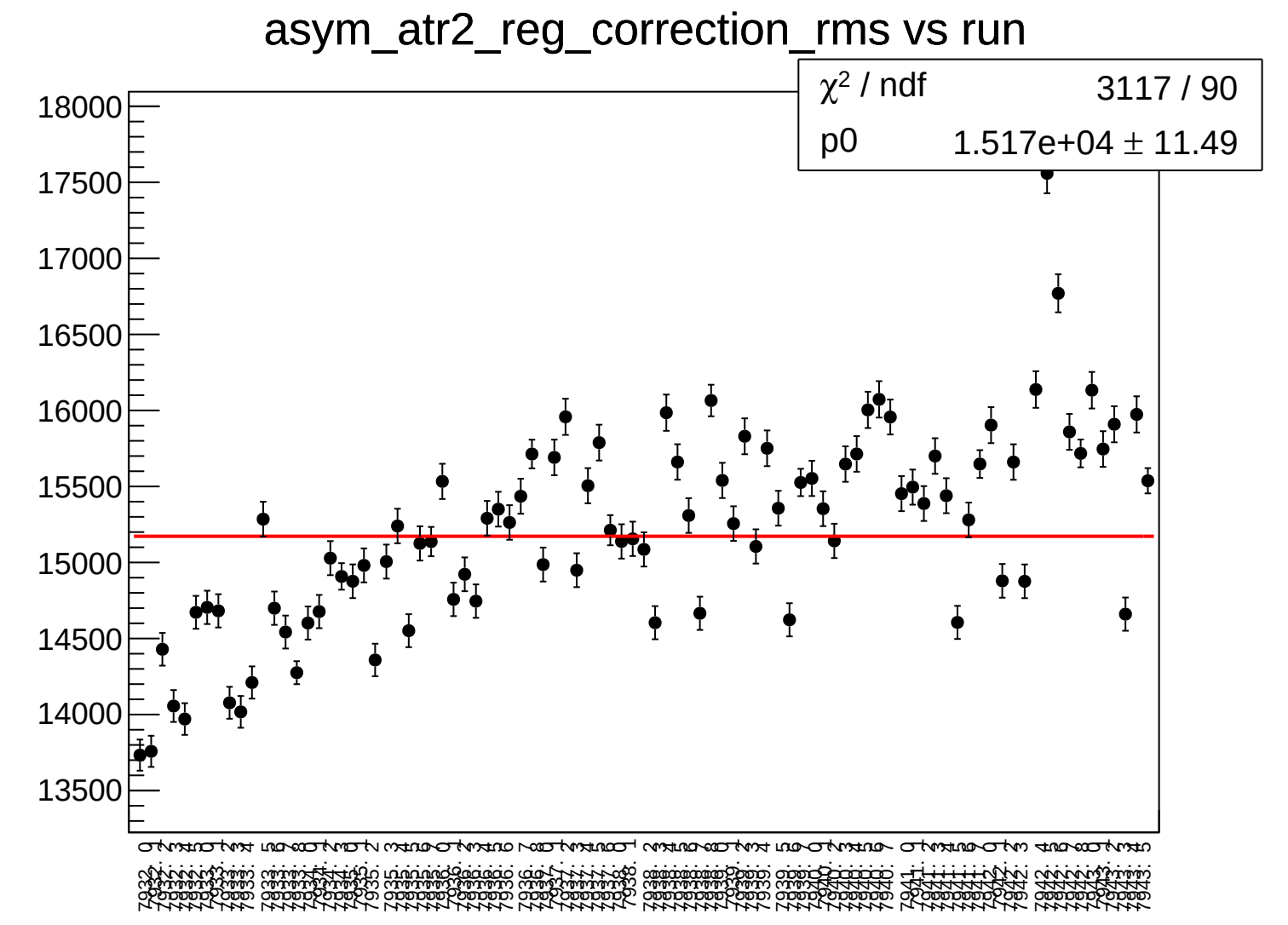

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 96.59 / 90
p0 1452 ± 3007
pull
Entries 91
Mean −227.3
Std Dev 0

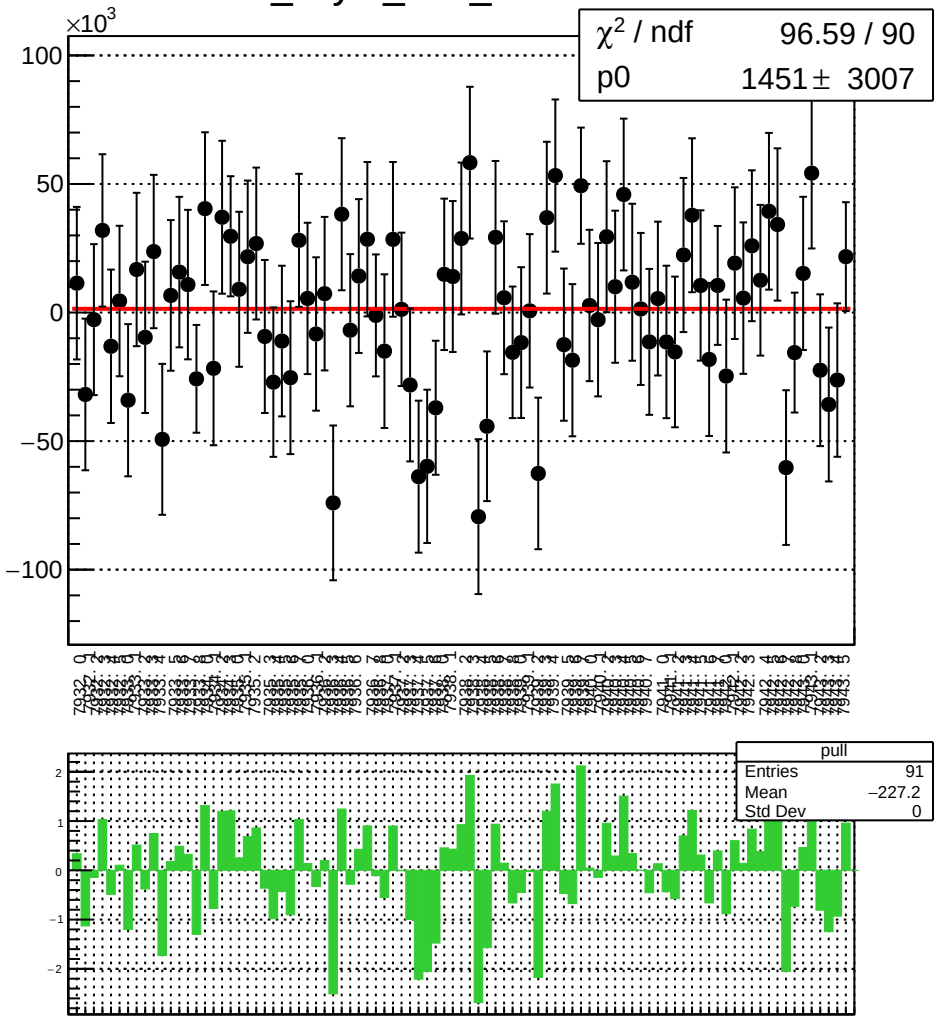

pull1D
Entries 91
Mean −0.006393
Std Dev 1.03

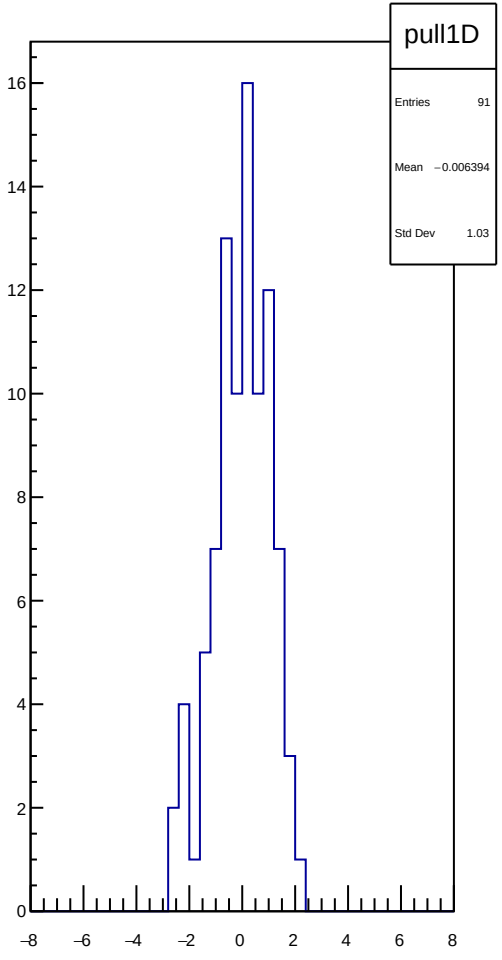

reg_asym_atr2_rms vs run
χ² / ndf 158.1 / 90
p0 2811 ± 2.126
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

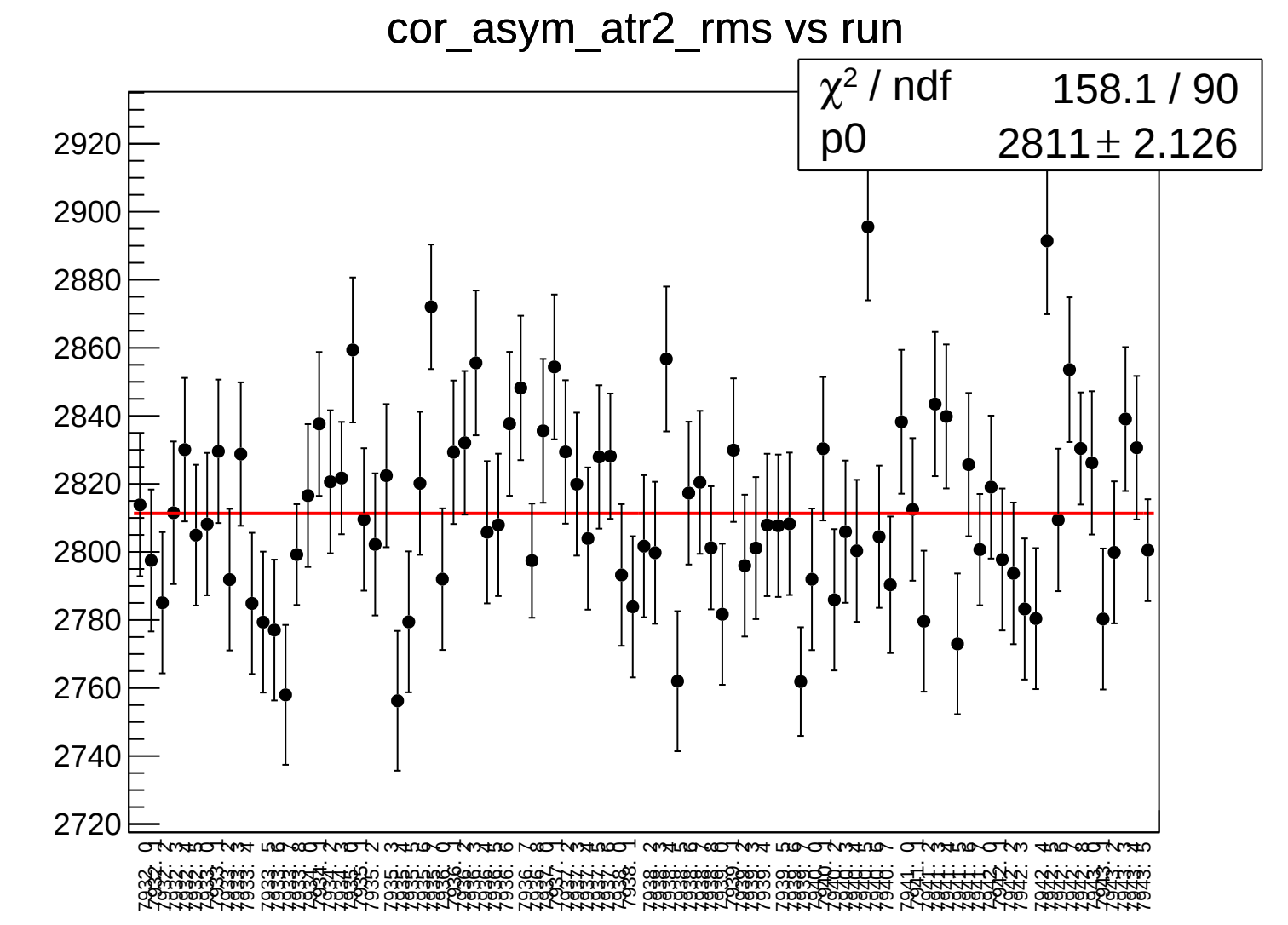

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −4110 ± 1.624e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −261.5
Std Dev 0
3
2
1
0
−1
−2

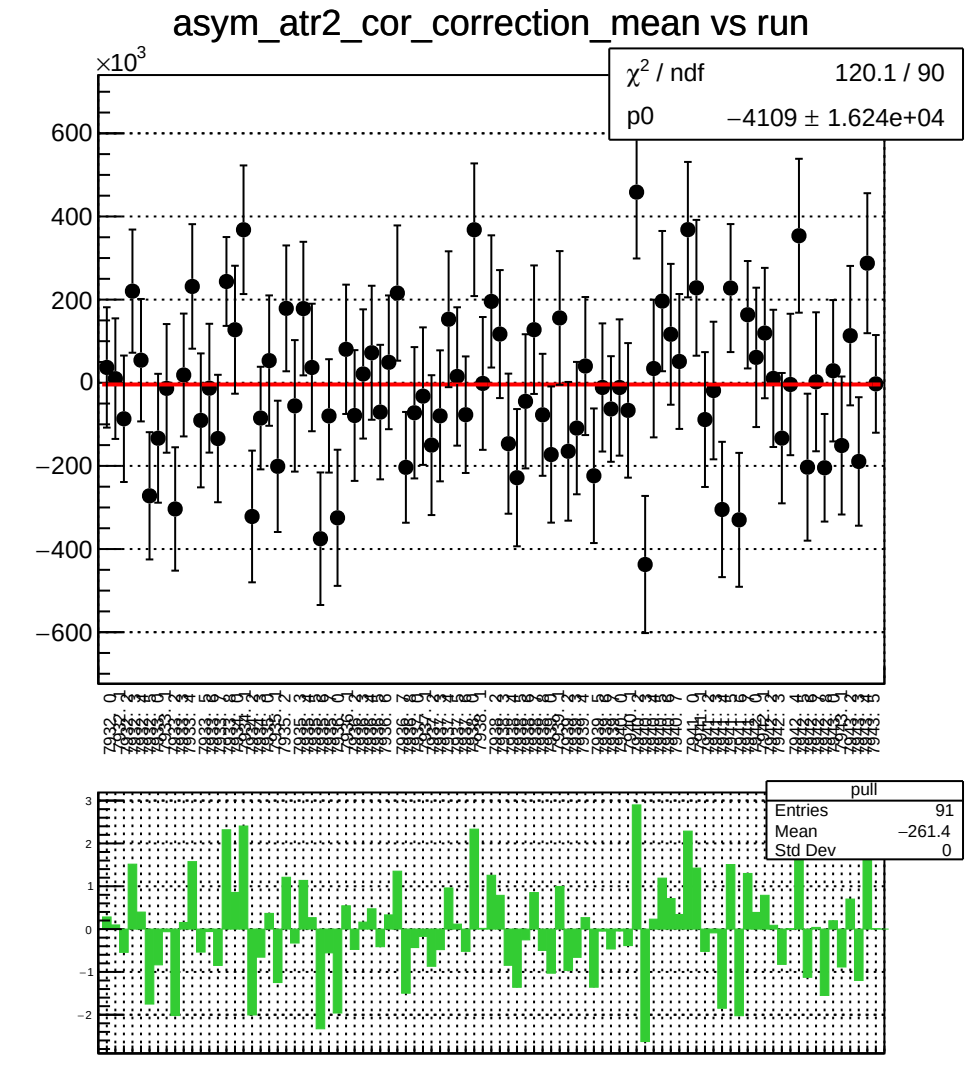

pull1D
Entries 91
Mean −0.004122
Std Dev 1.149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

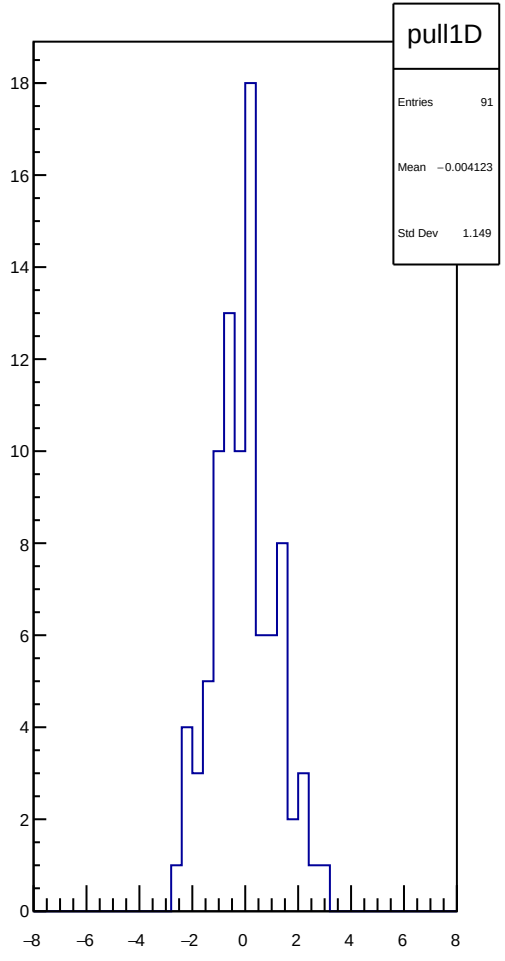

asym_atr2_reg_correction_rms vs run
χ² / ndf 3117 / 90
p0 1.517e+04 ± 11.49
18000
17500
17000
16500
16000
15500
15000
14500
14000
13500

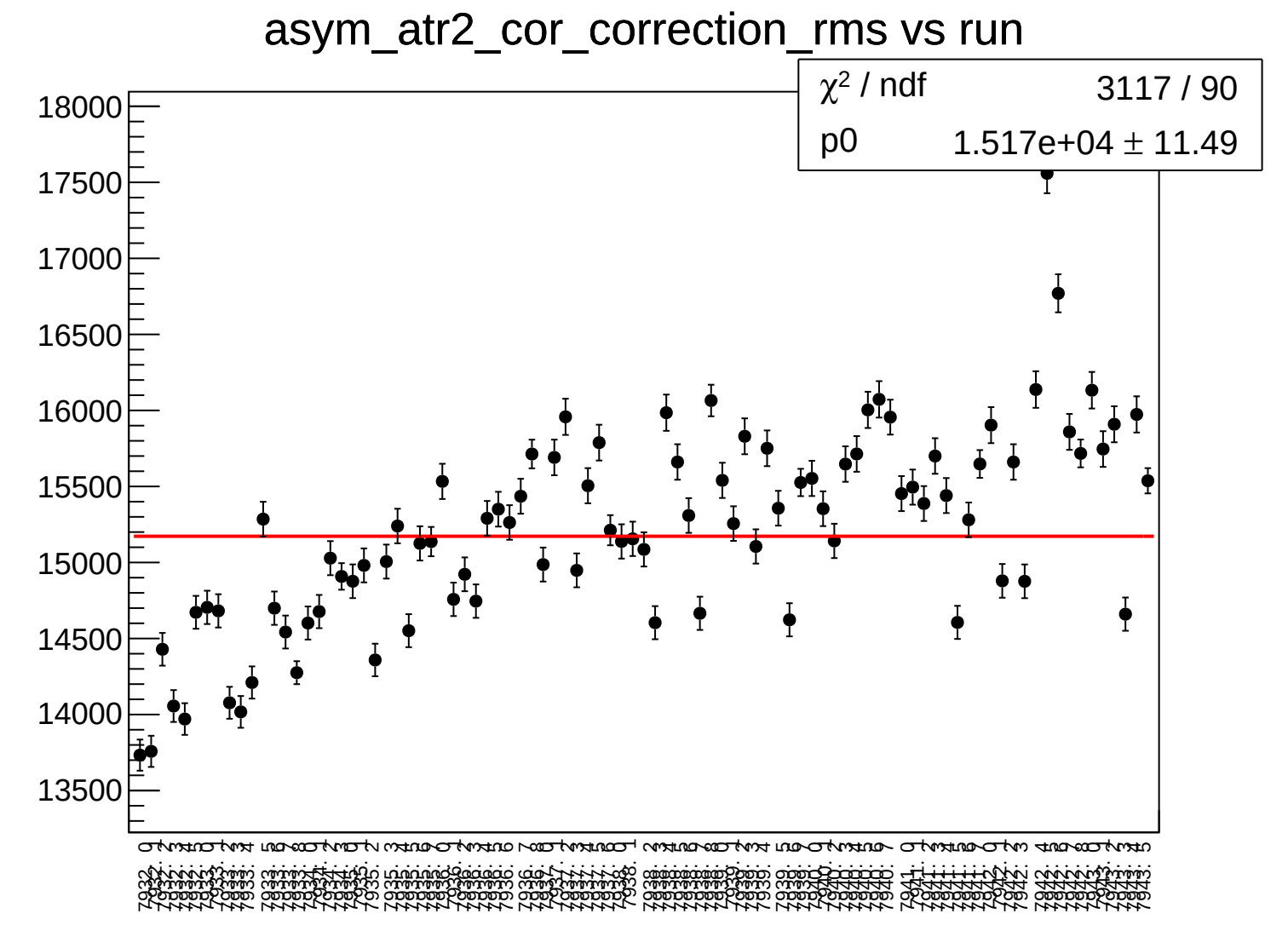

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 96.59 / 90
p0 1451 ± 3007
100
50
0
−50
−100
pull
Entries 91
Mean −227.2
Std Dev 0
2
1
0
−1
−2

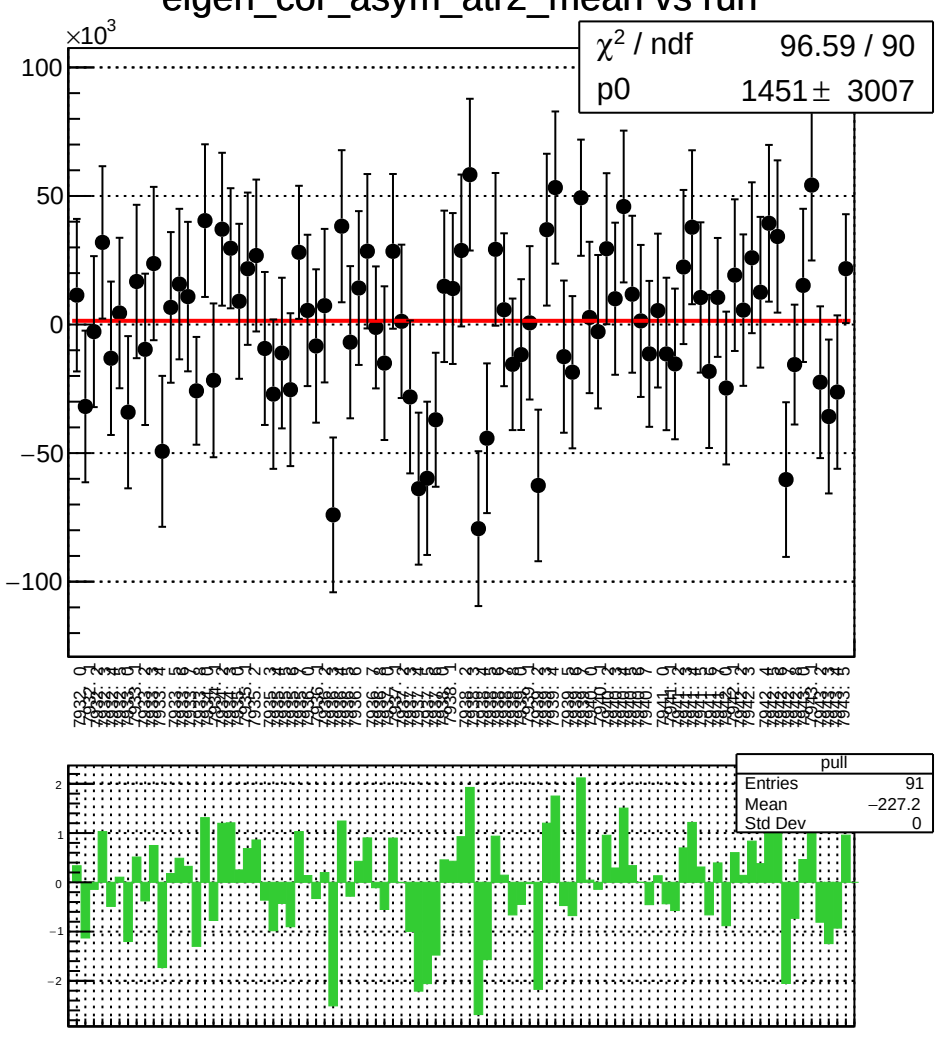

pull1D
Entries 91
Mean −0.006394
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

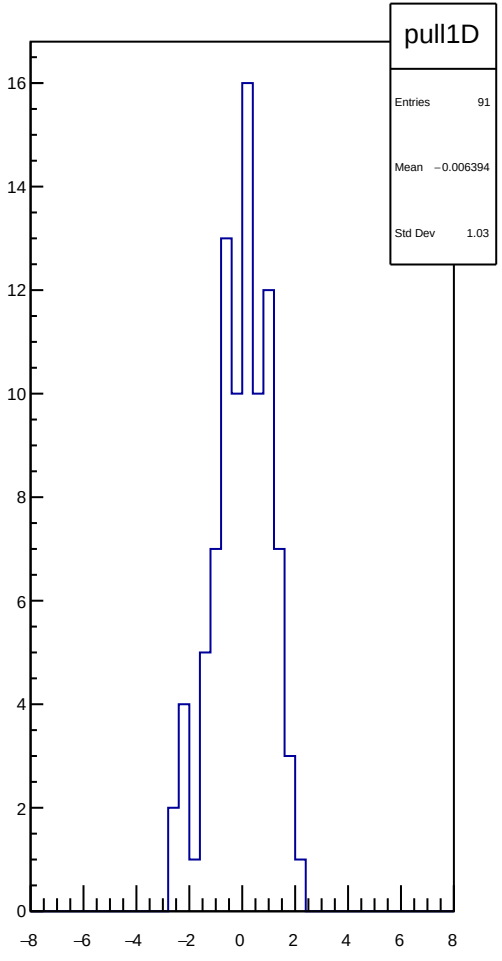

cor_asym_atr2_rms vs run
χ² / ndf 158.1 / 90
p0 2811 ± 2.126
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

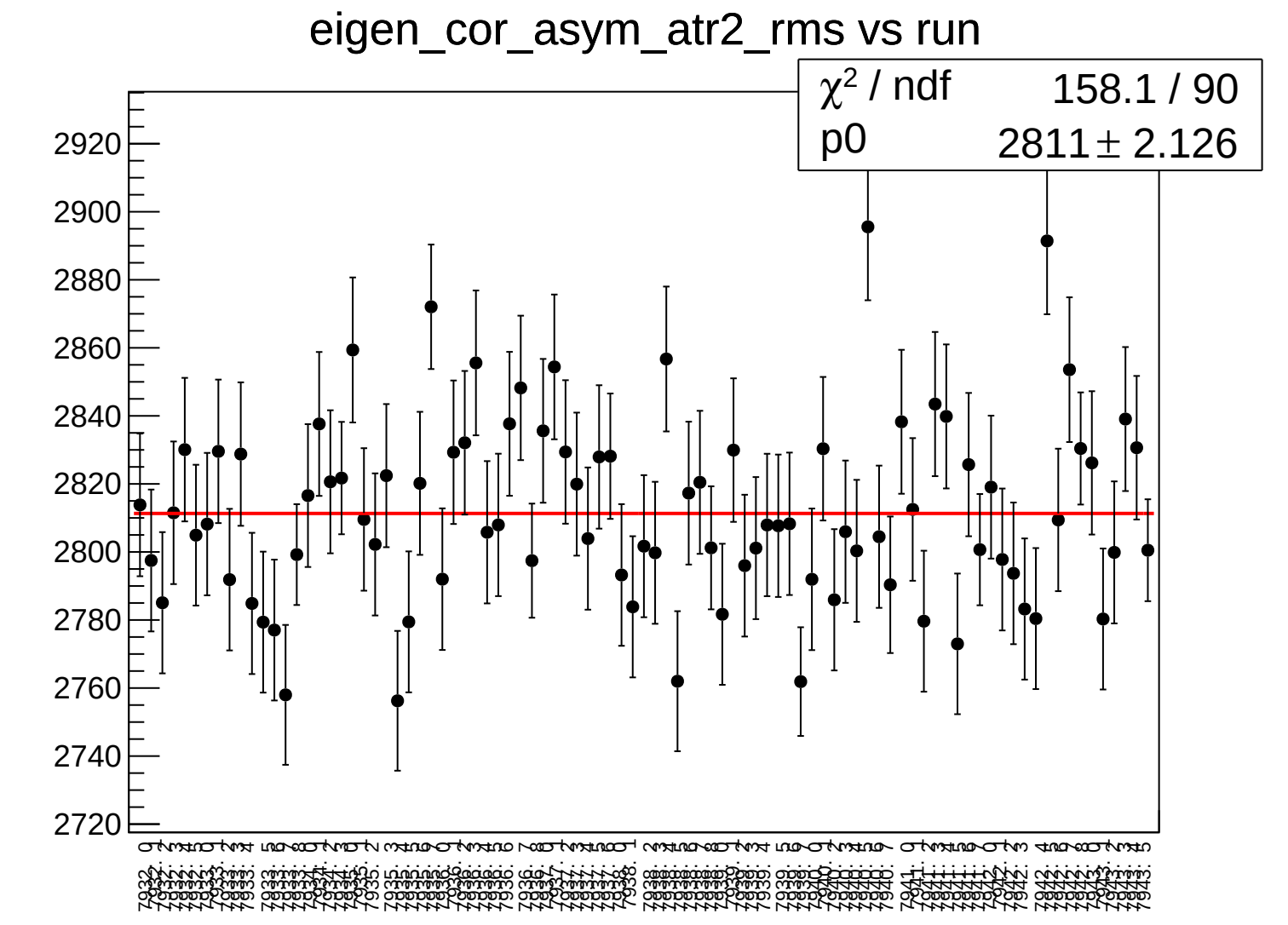

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −4109 ± 1.624e+04
pull
Entries 91
Mean −261.4
Std Dev 0

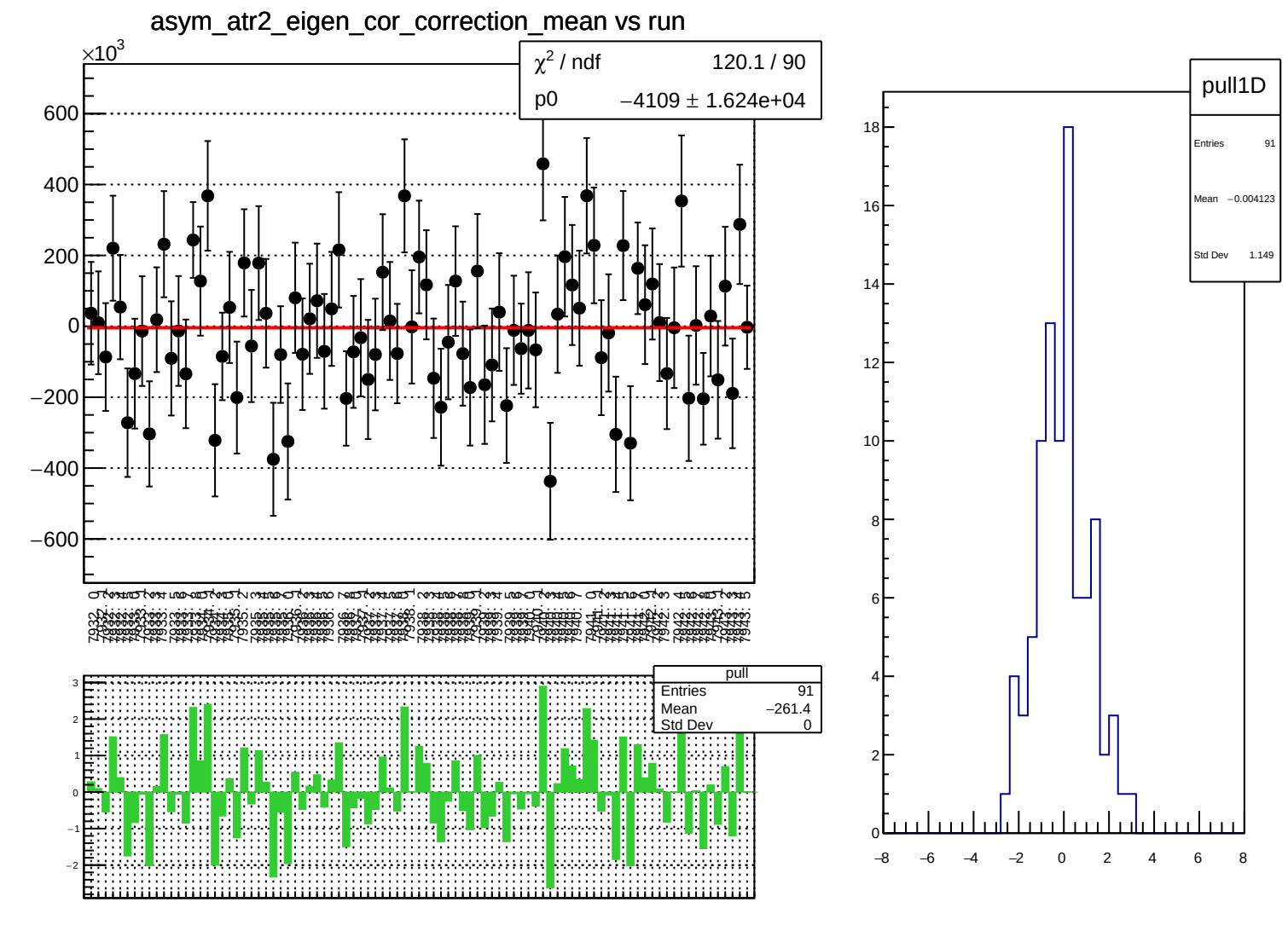

pull1D
Entries 91
Mean −0.004123
Std Dev 1.149

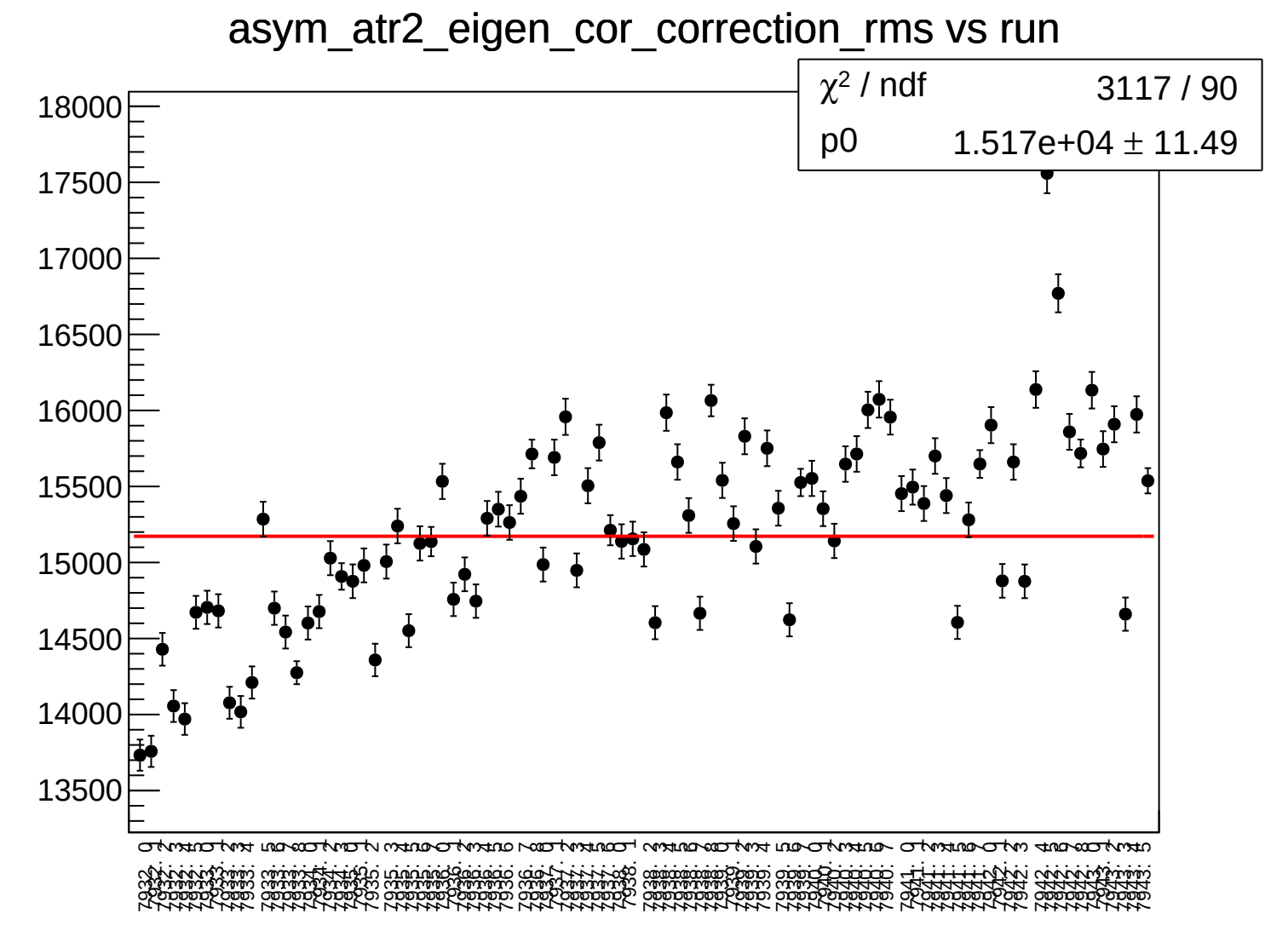

asym_atr2_cor_correction_rms vs run
χ² / ndf 3117 / 90
p0 1.517e+04 ± 11.49
18000
17500
17000
16500
16000
15500
15000
14500
14000
13500

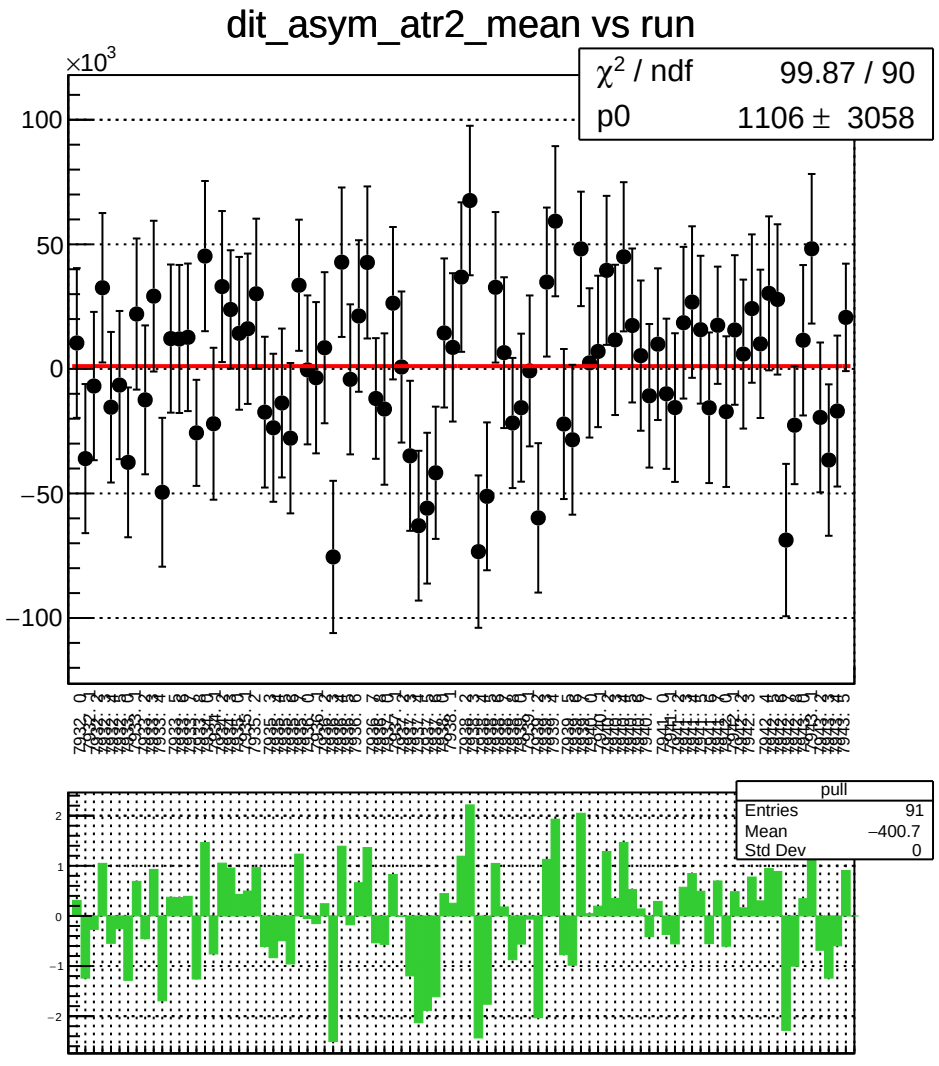

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 96.59 / 90
p0 1451 ± 3007
100
50
0
−50
−100
pull
Entries 91
Mean −227.2
Std Dev 0
2
1
0
−1
−2

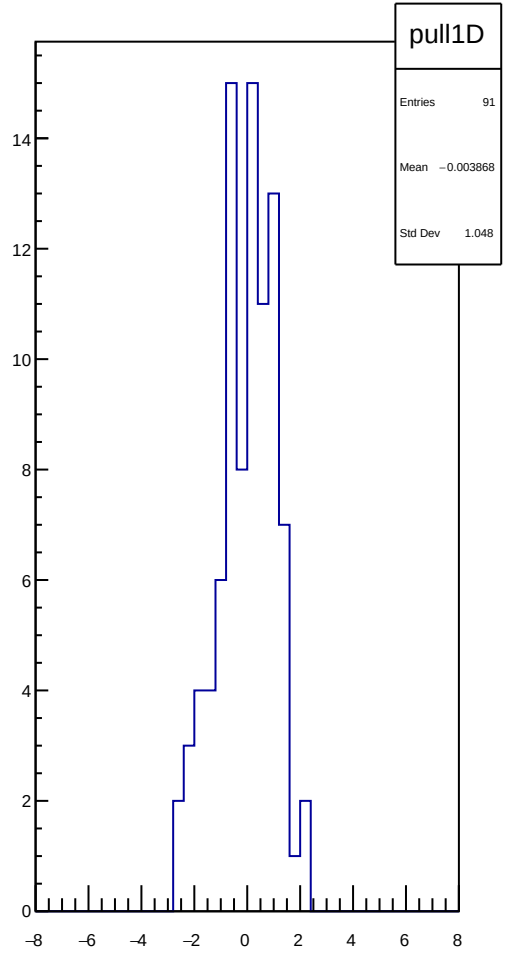

pull1D
Entries 91
Mean −0.006394
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

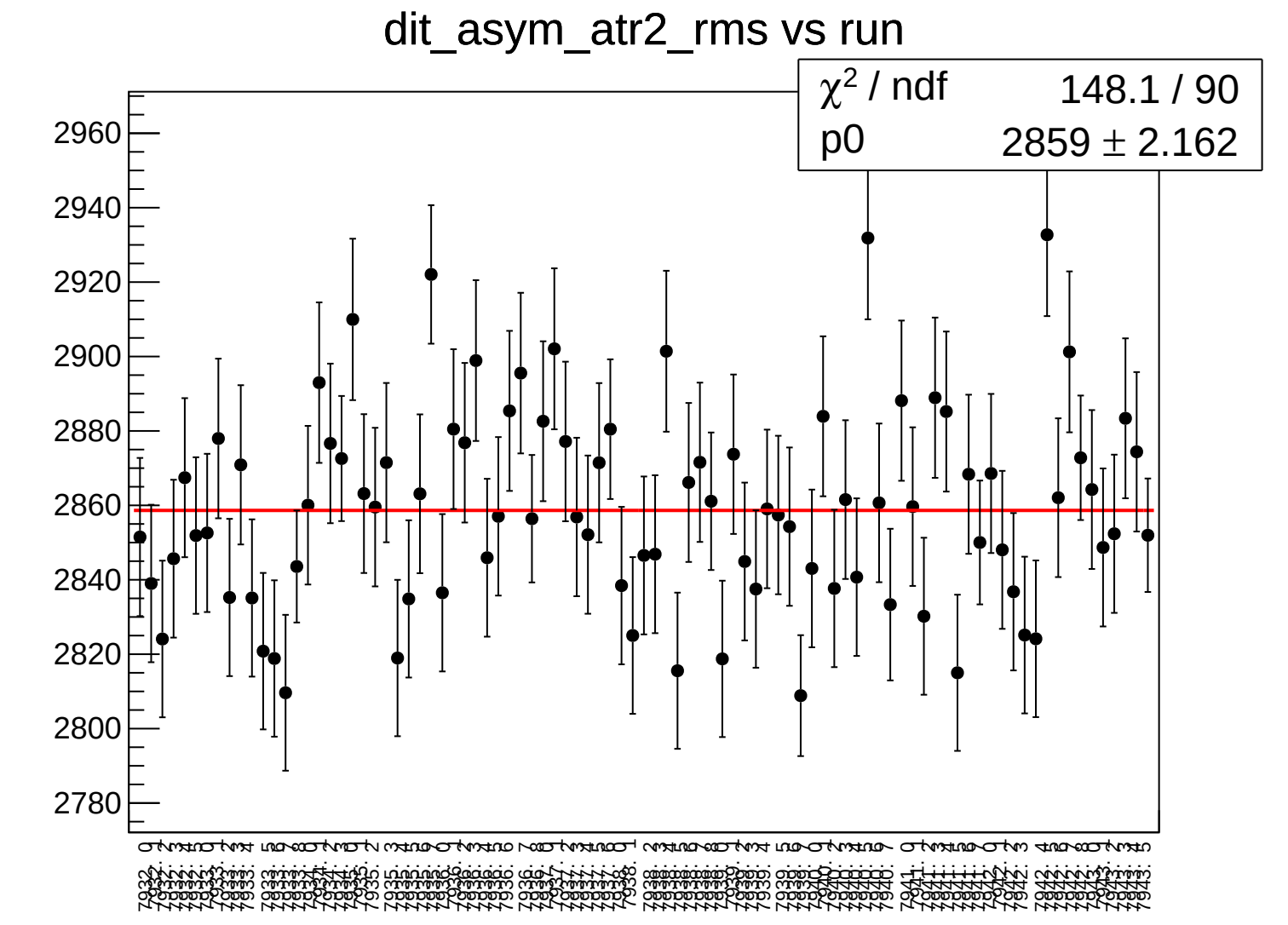

eigen_cor_asym_atr2_rms vs run
χ² / ndf 158.1 / 90
p0 2811 ± 2.126
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

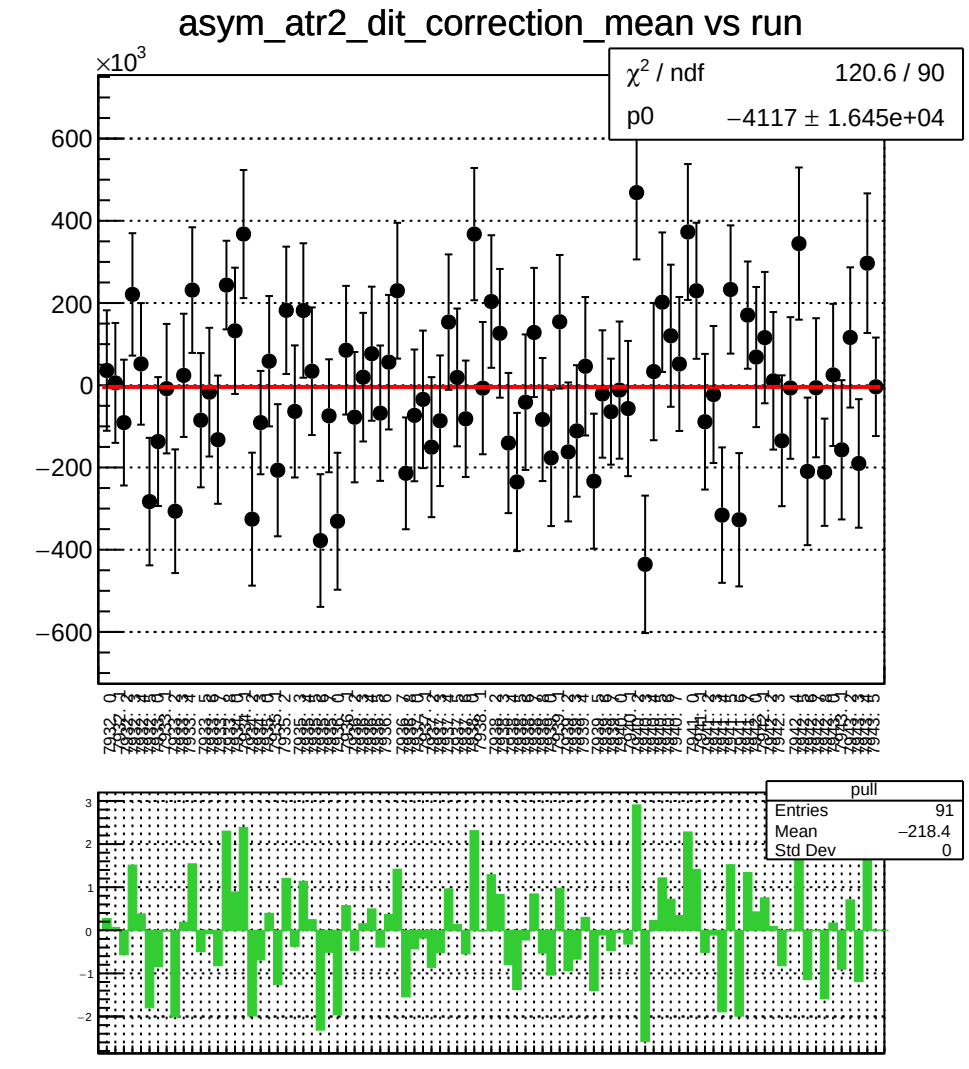

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −4109 ± 1.624e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −261.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.004123
Std Dev 1.149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

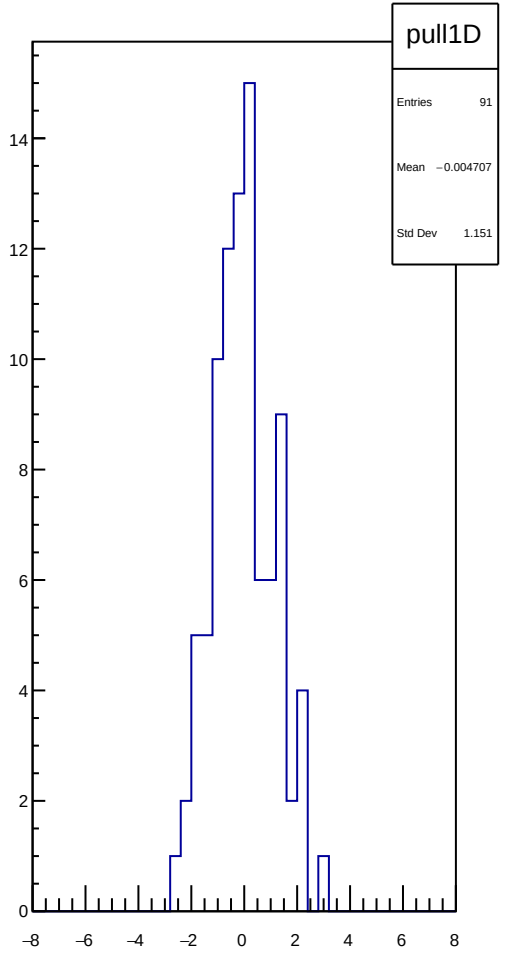

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3117 / 90
p0 1.517e+04 ± 11.49
18000
17500
17000
16500
16000
15500
15000
14500
14000
13500


dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 99.87 / 90
p0 1106 ± 3058
100
50
0
−50
−100
pull
Entries 91
Mean −400.7
Std Dev 0
2
1
0
−1
−2

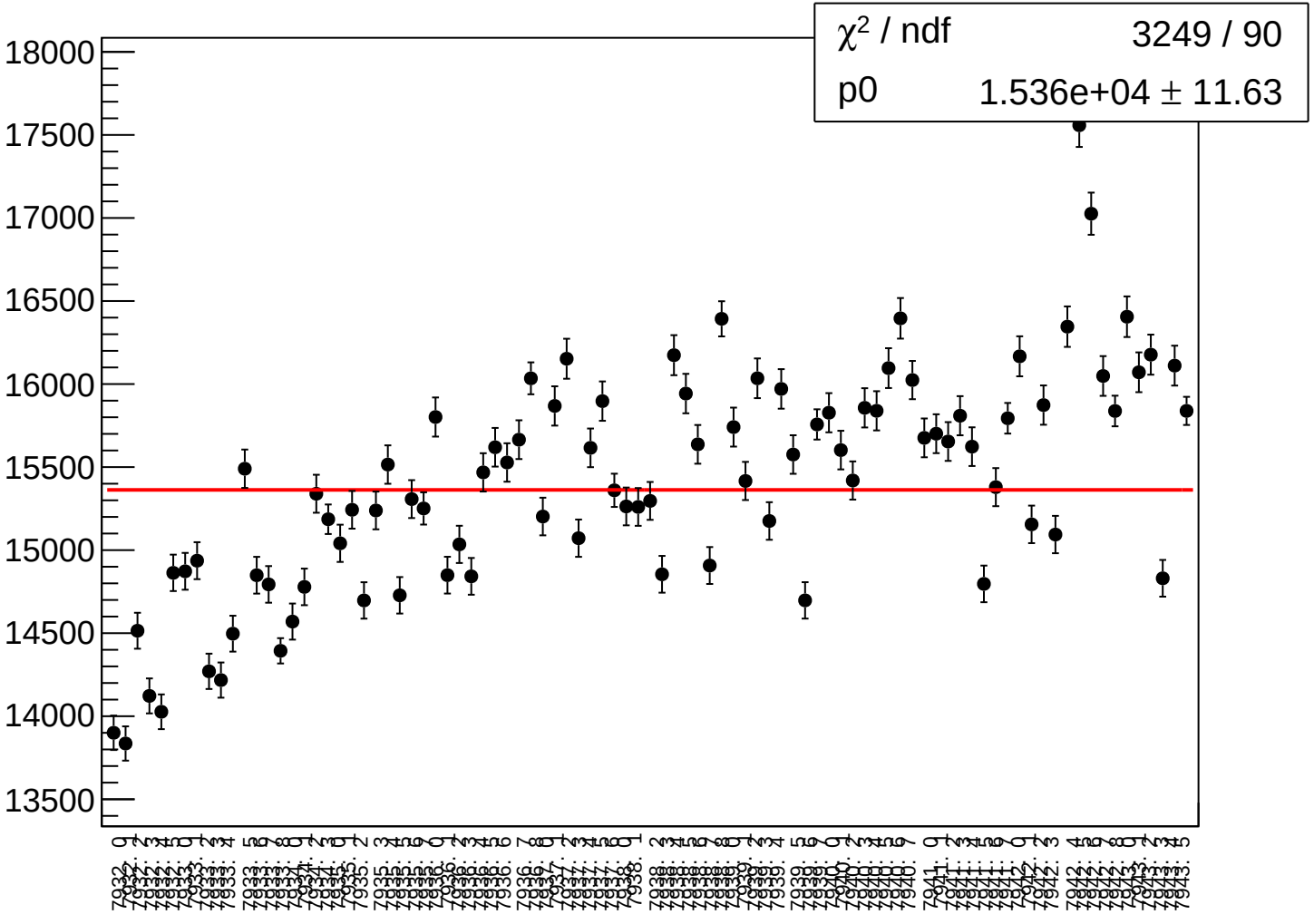

pull1D
Entries 91
Mean −0.003868
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

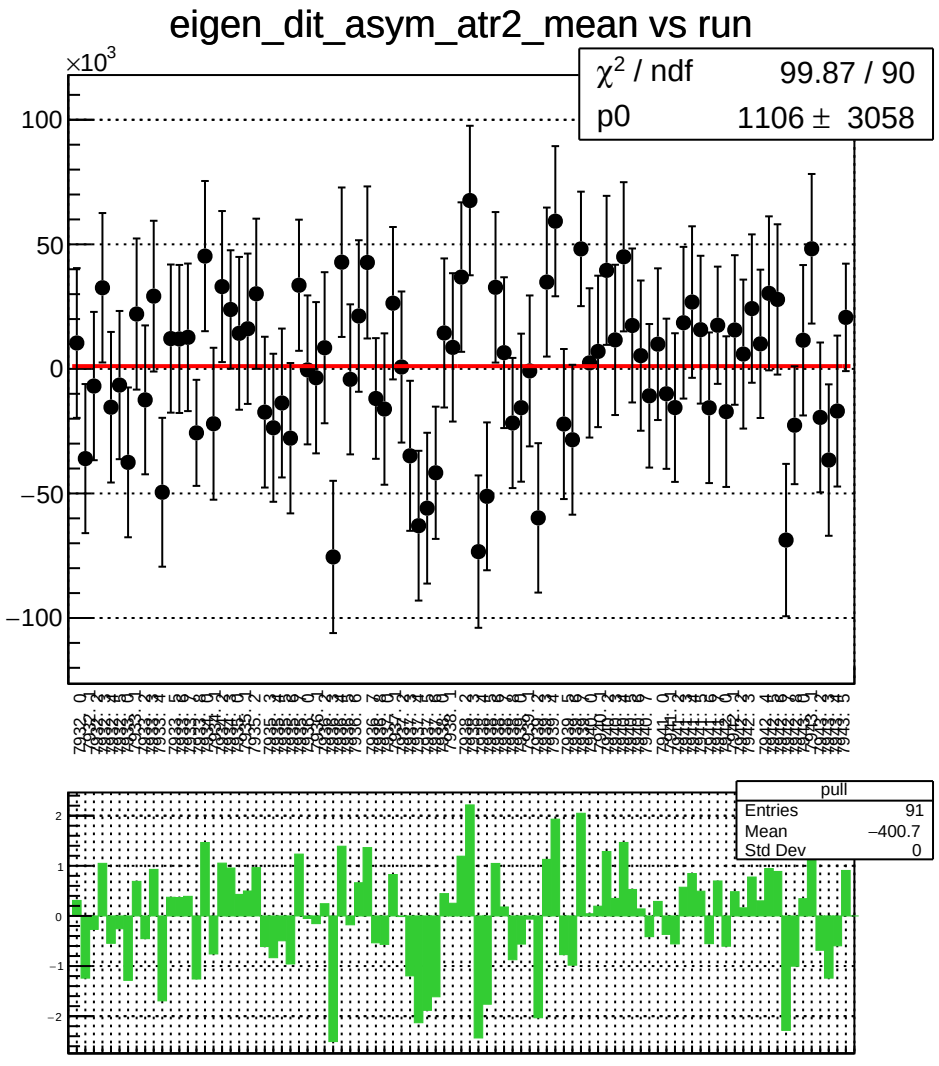

dit_asym_atr2_rms vs run
χ^2 / ndf 148.1 / 90
p0 2859 ± 2.162
2960
2940
2920
2900
2880
2860
2840
2820
2800
2780

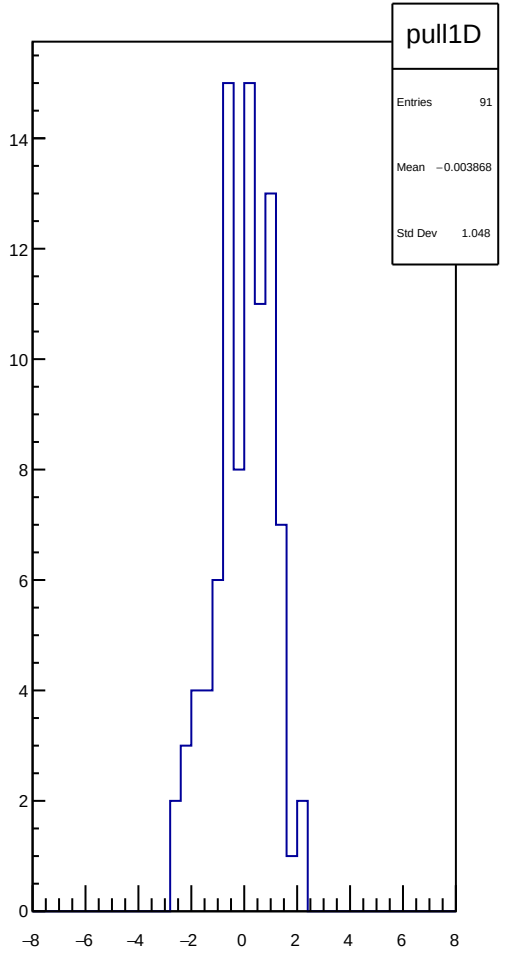

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 120.6 / 90
p0 −4117 ± 1.645e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −218.4
Std Dev 0
3
2
1
0
−1
−2

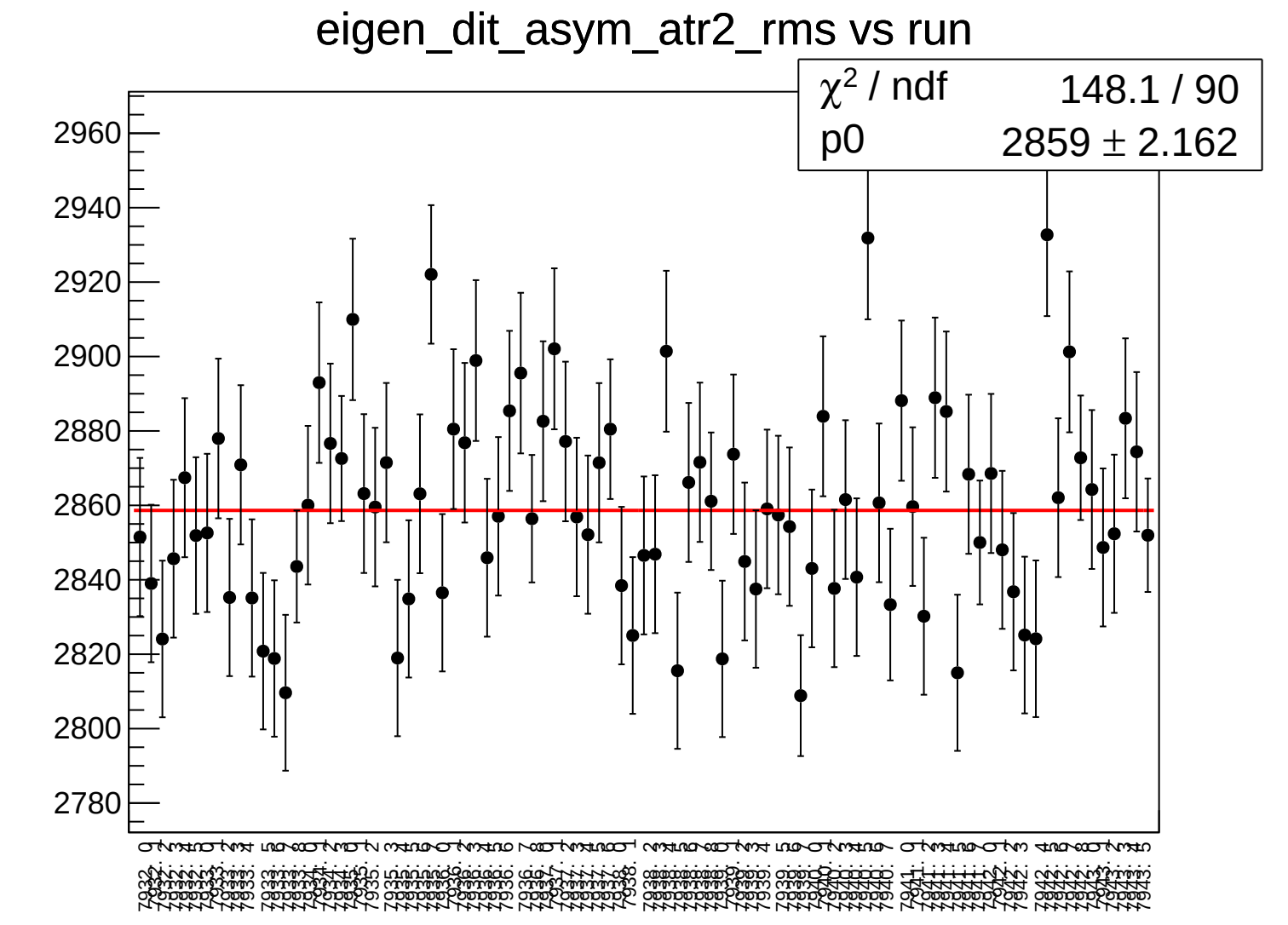

pull1D
Entries 91
Mean −0.004707
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

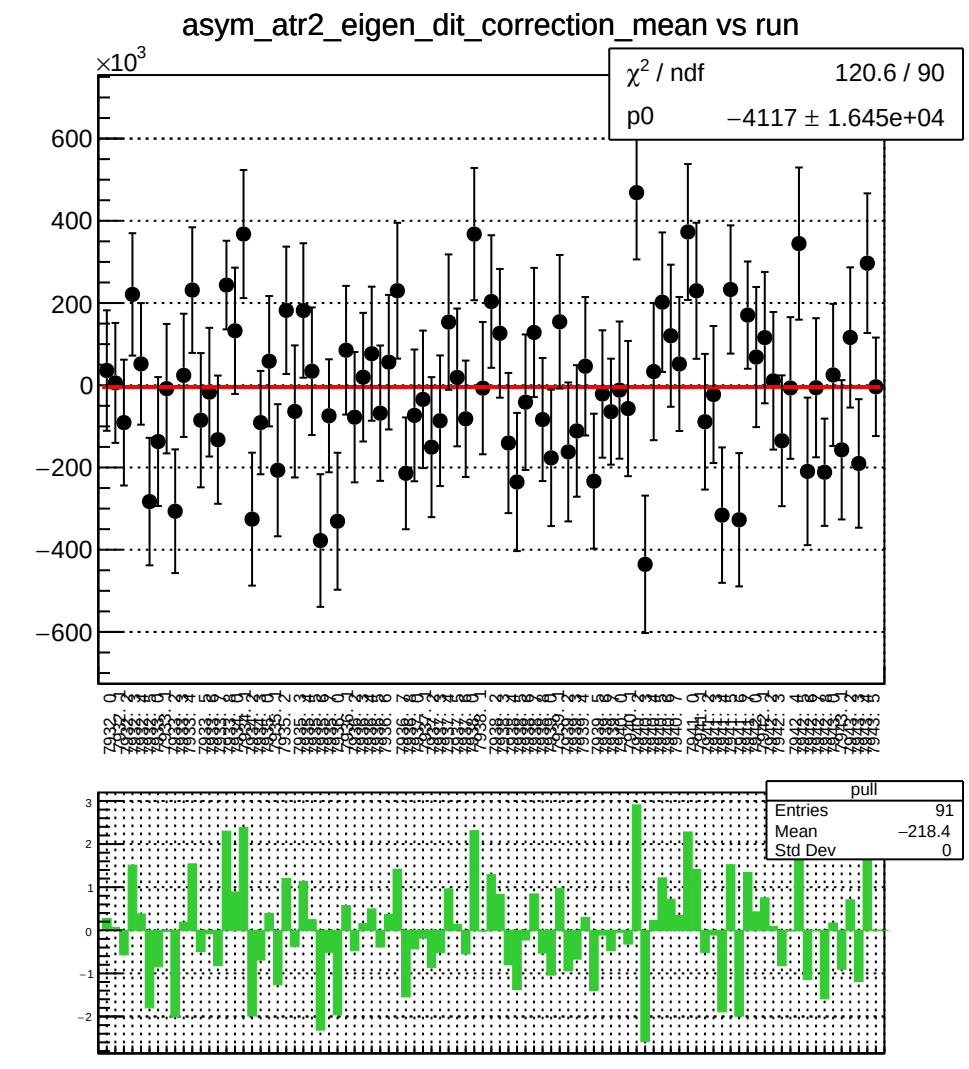
asym_atr2_dit_correction_rms vs run

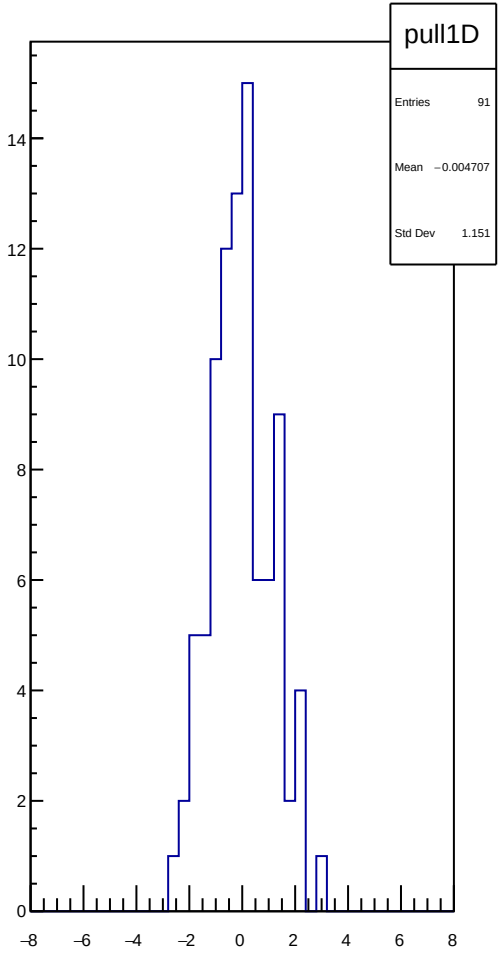



eigen_dit_asym_atr2_mean vs run
χ² / ndf 99.87 / 90
p0 1106 ± 3058
×10³
pull
Entries 91
Mean −400.7
Std Dev 0

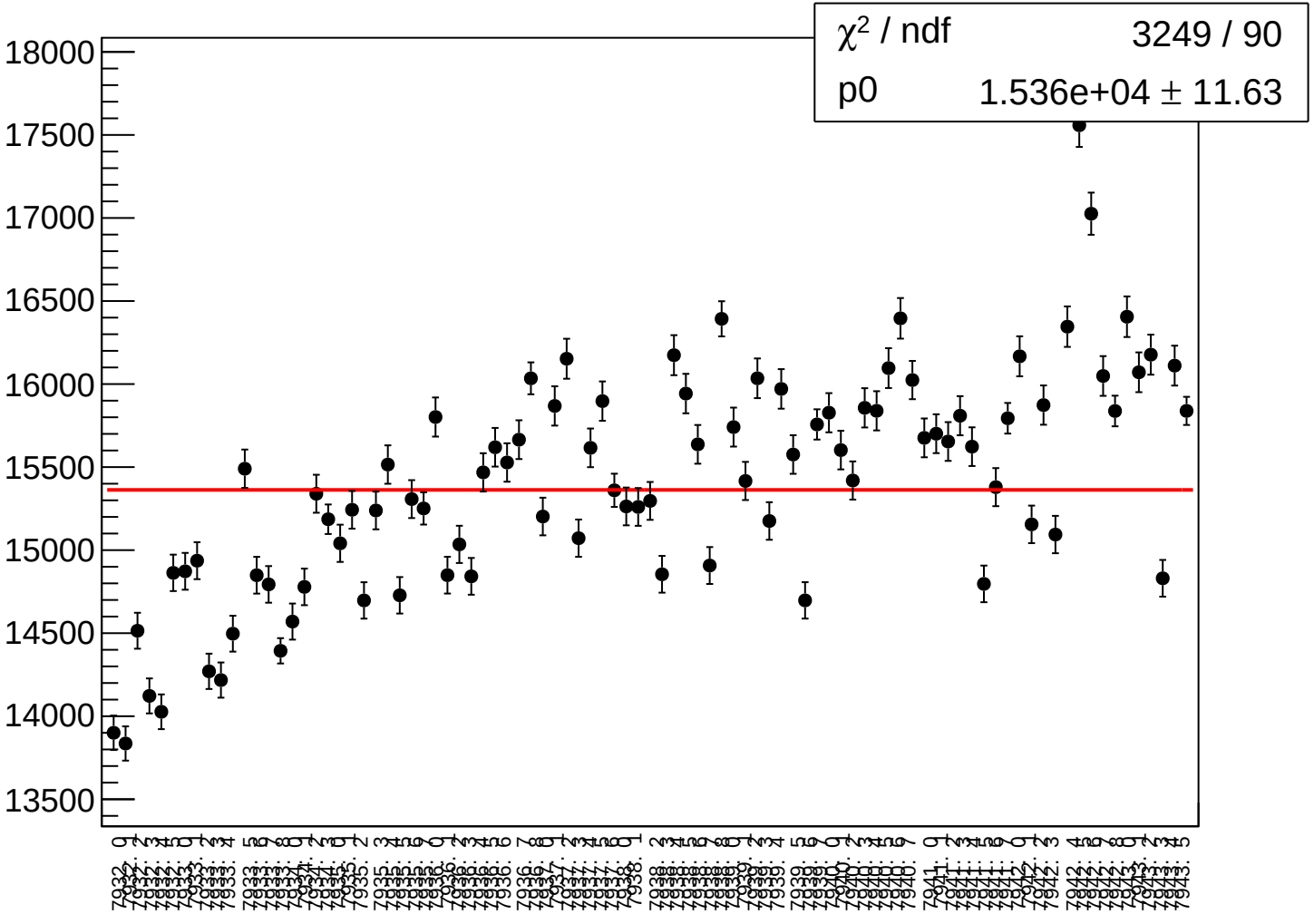

pull1D
Entries 91
Mean −0.003868
Std Dev 1.048

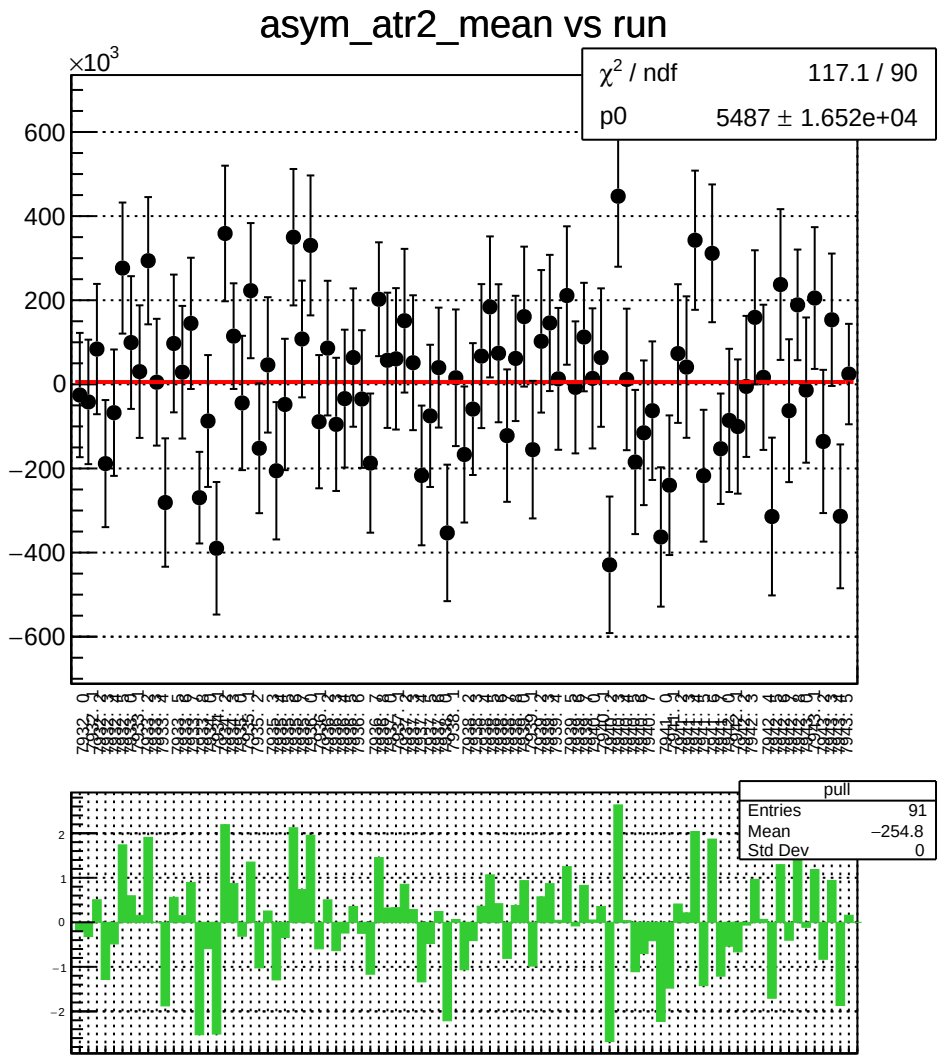

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 148.1 / 90
p0 2859 ± 2.162
2960
2940
2920
2900
2880
2860
2840
2820
2800
2780

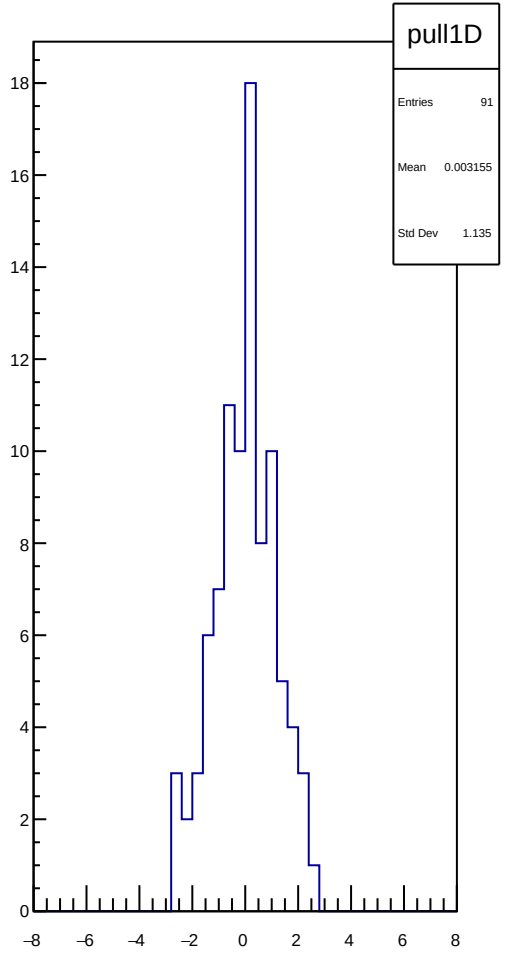

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.6 / 90
p0 −4117 ± 1.645e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −218.4
Std Dev 0
3
2
1
0
−1
−2

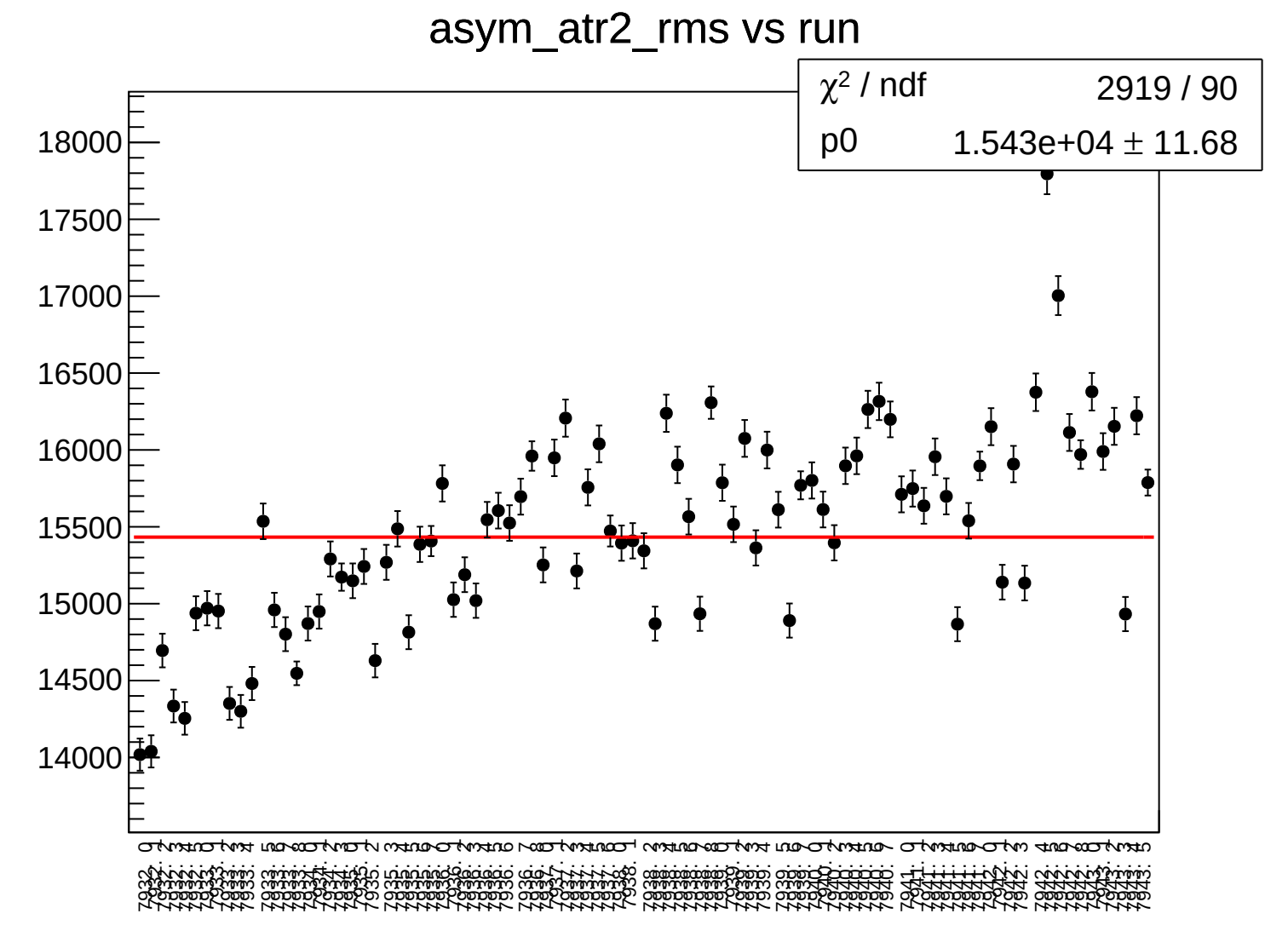

pull1D
Entries 91
Mean −0.004707
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

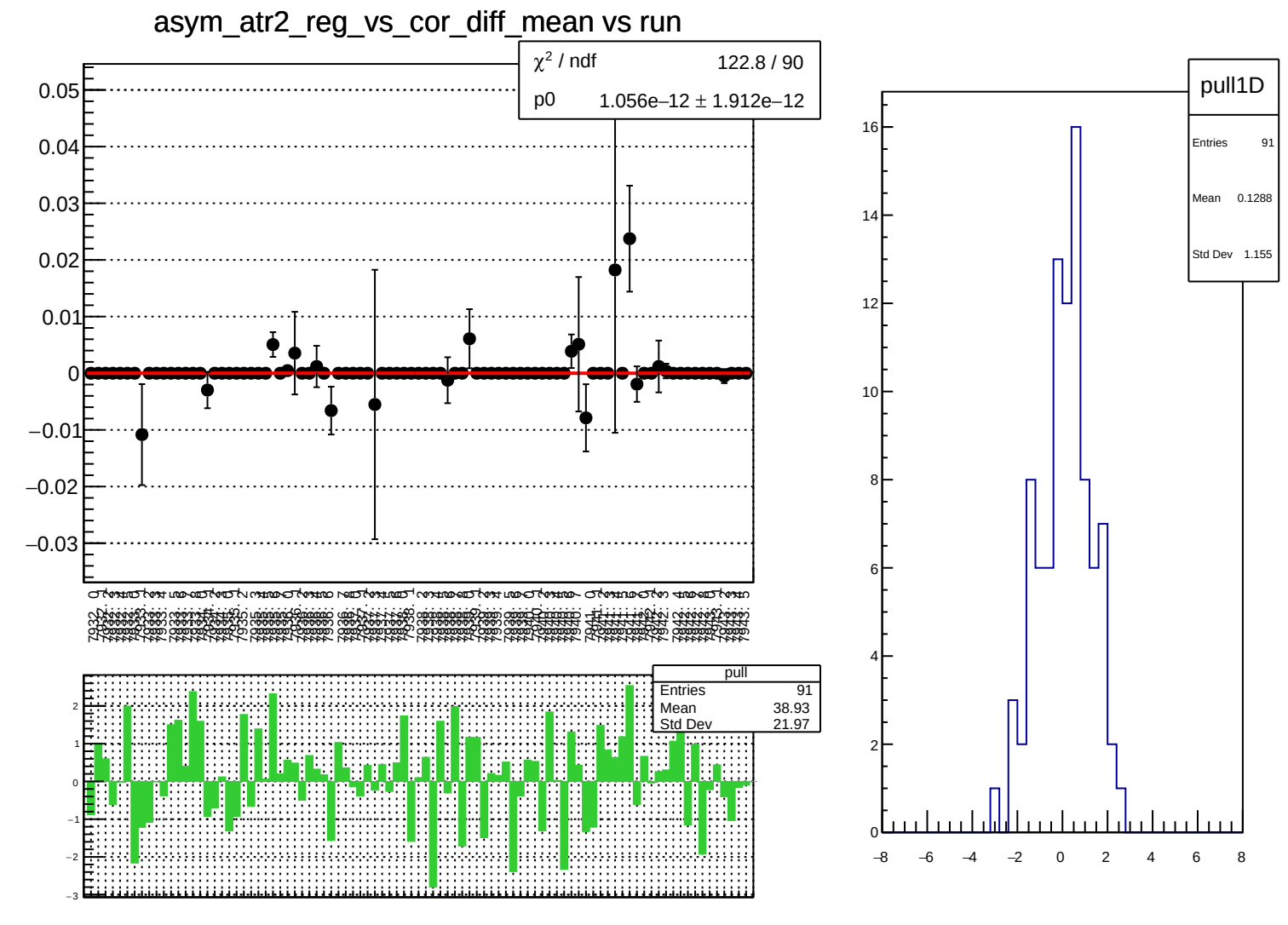
asym_atr2_eigen_dit_correction_rms vs run

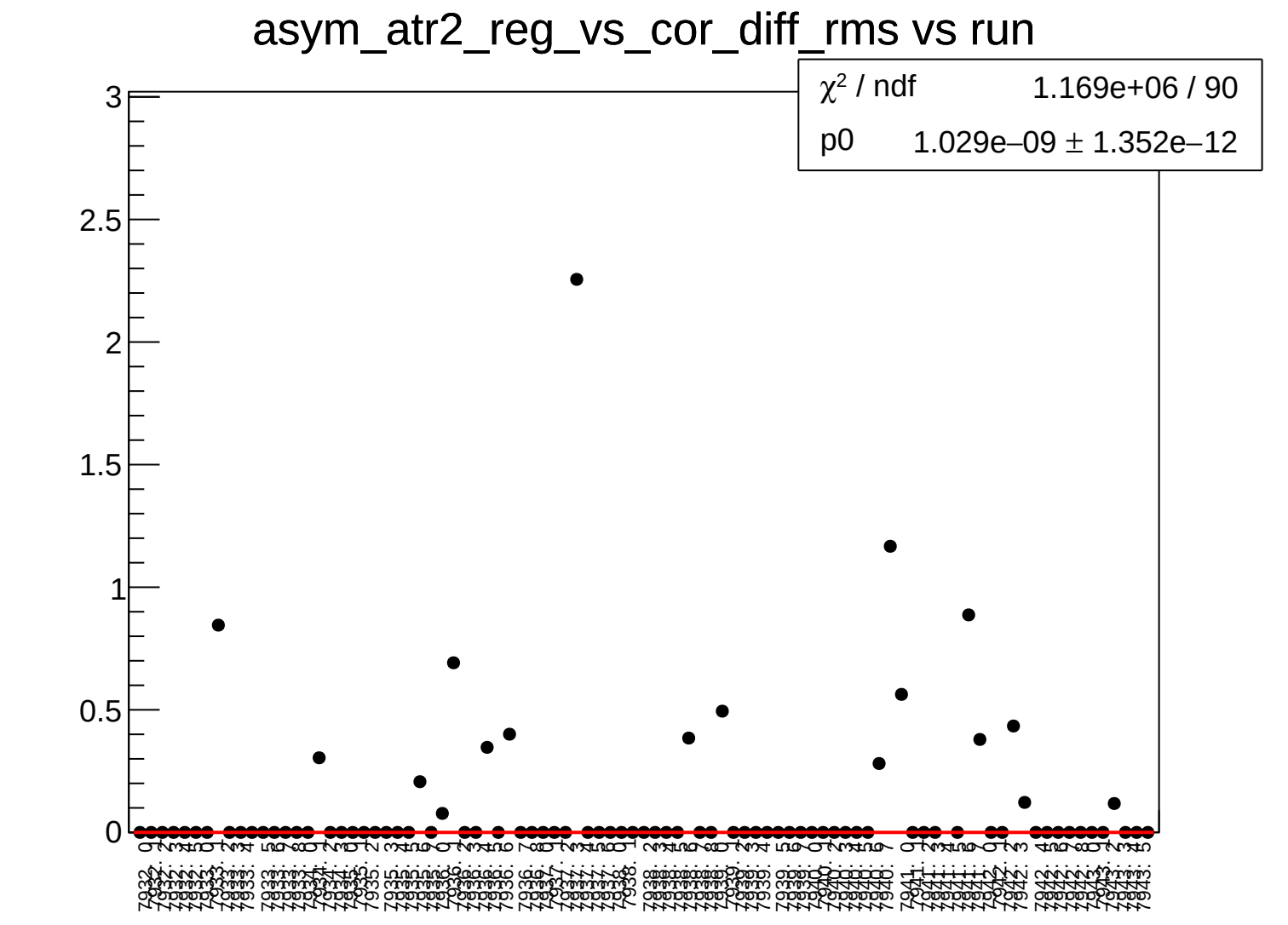


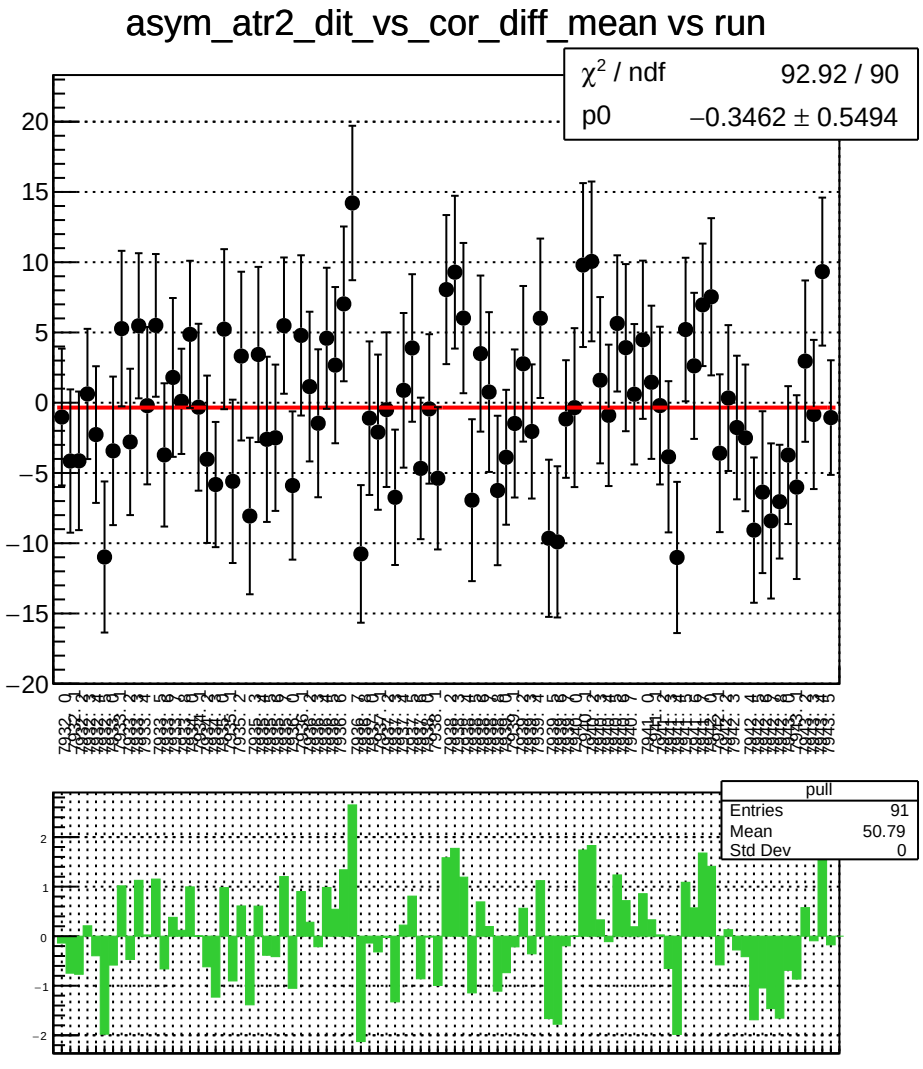

asym_atr2_mean vs run
×10^3
χ² / ndf 117.1 / 90
p0 5487 ± 1.652e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −254.8
Std Dev 0
2
1
0
−1
−2

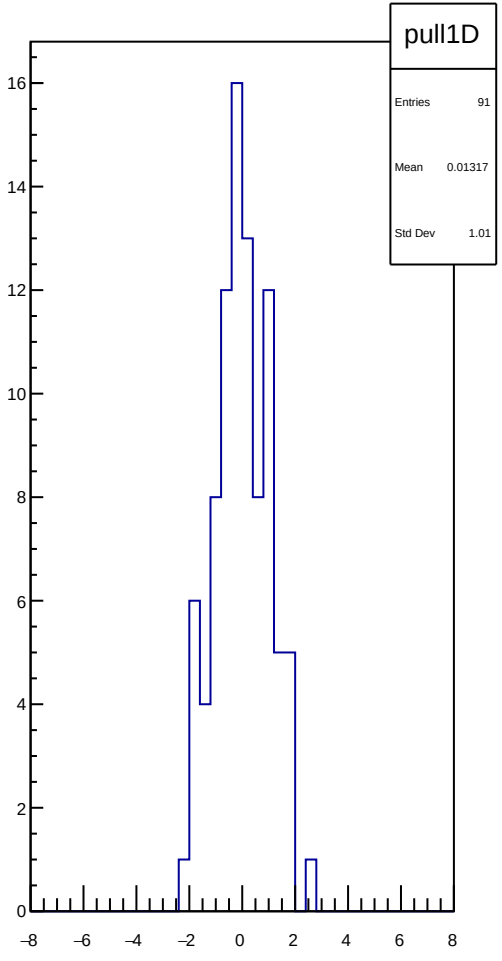

pull1D
Entries 91
Mean 0.003155
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

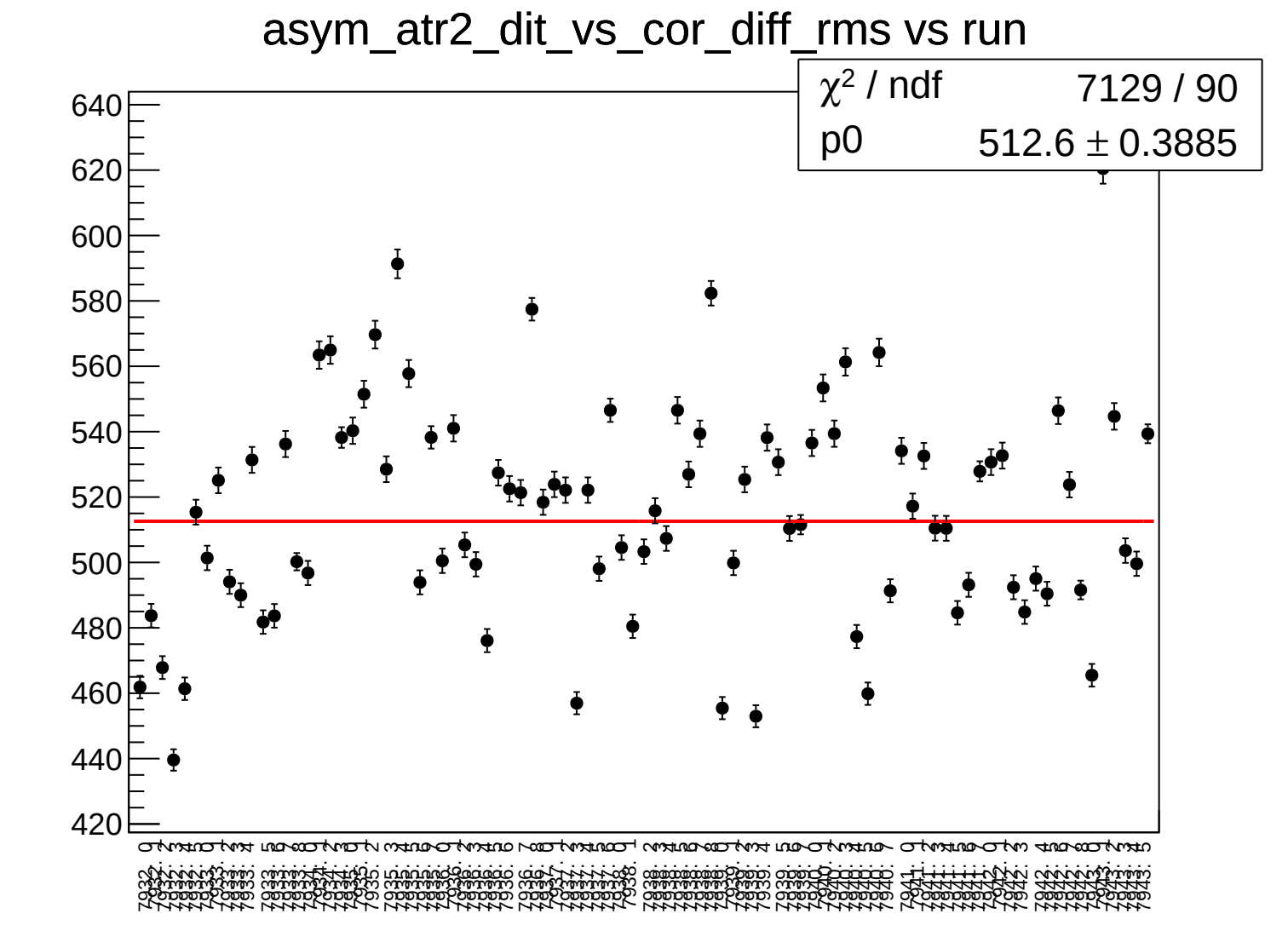

asym_atr2_rms vs run
χ² / ndf 2919 / 90
p0 1.543e+04 ± 11.68
18000
17500
17000
16500
16000
15500
15000
14500
14000

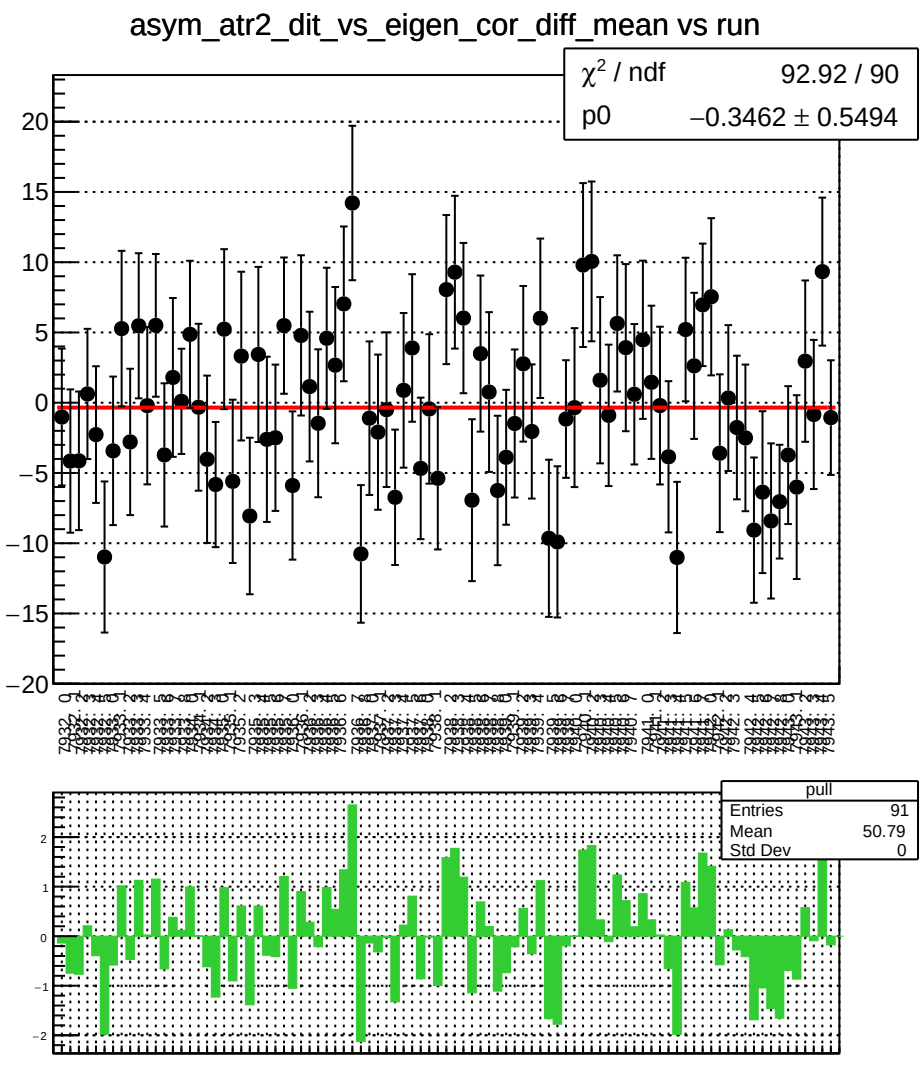

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 122.8 / 90
p0 1.056e−12 ± 1.912e−12
pull
Entries 91
Mean 38.93
Std Dev 21.97
pull1D
Entries 91
Mean 0.1288
Std Dev 1.155

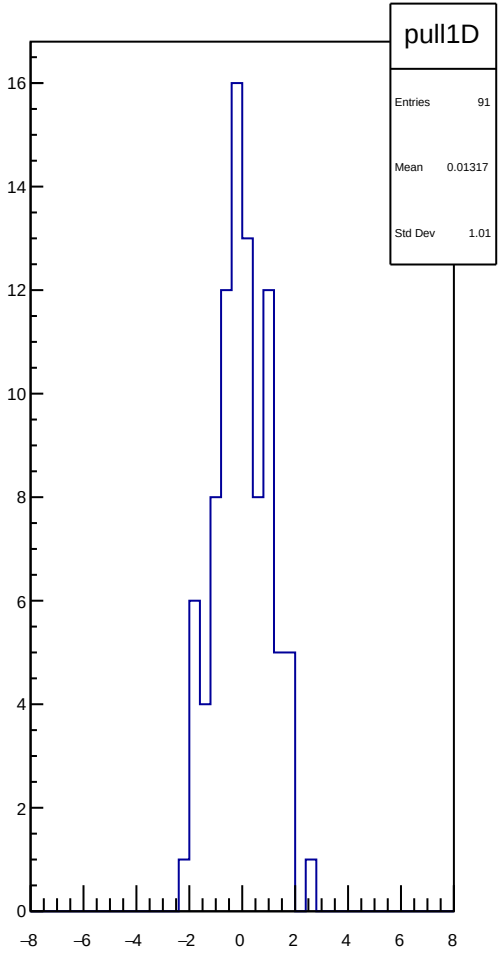

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 90
p0 1.029e−09 ± 1.352e−12
3
2.5
2
1.5
1
0.5
0

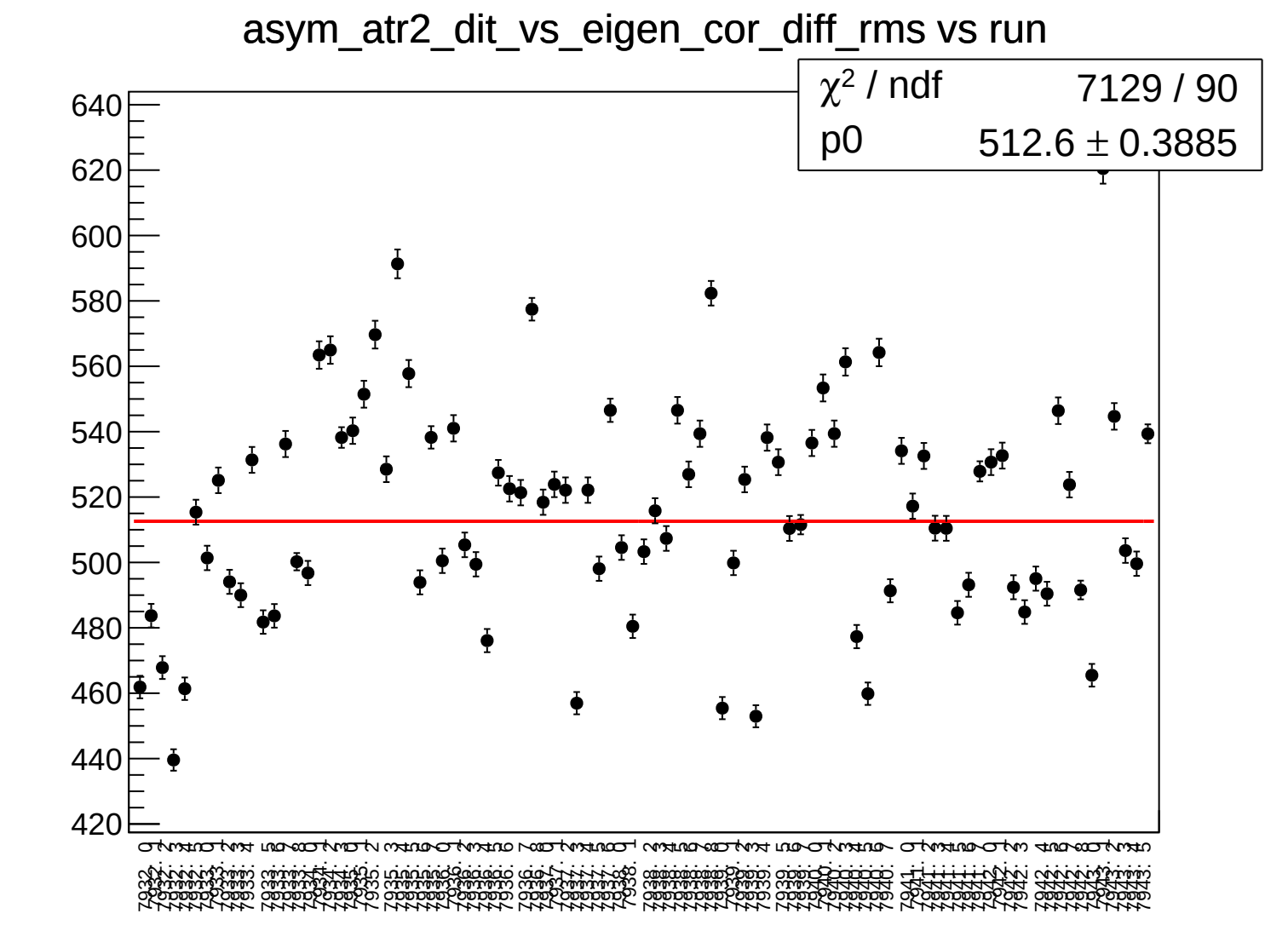

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 92.92 / 90
p0 −0.3462 ± 0.5494
pull
Entries 91
Mean 50.79
Std Dev 0

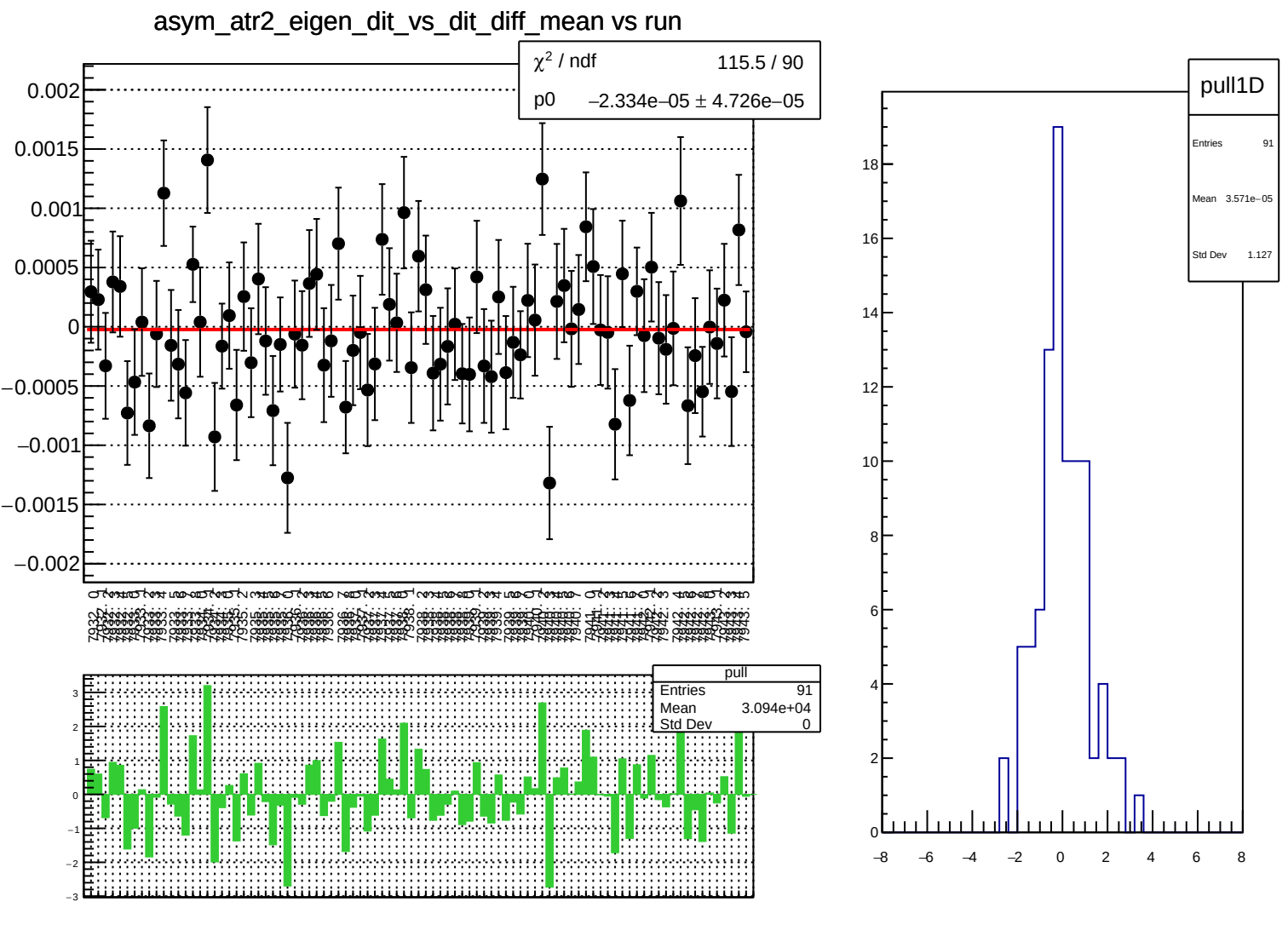

pull1D
Entries 91
Mean 0.01317
Std Dev 1.01

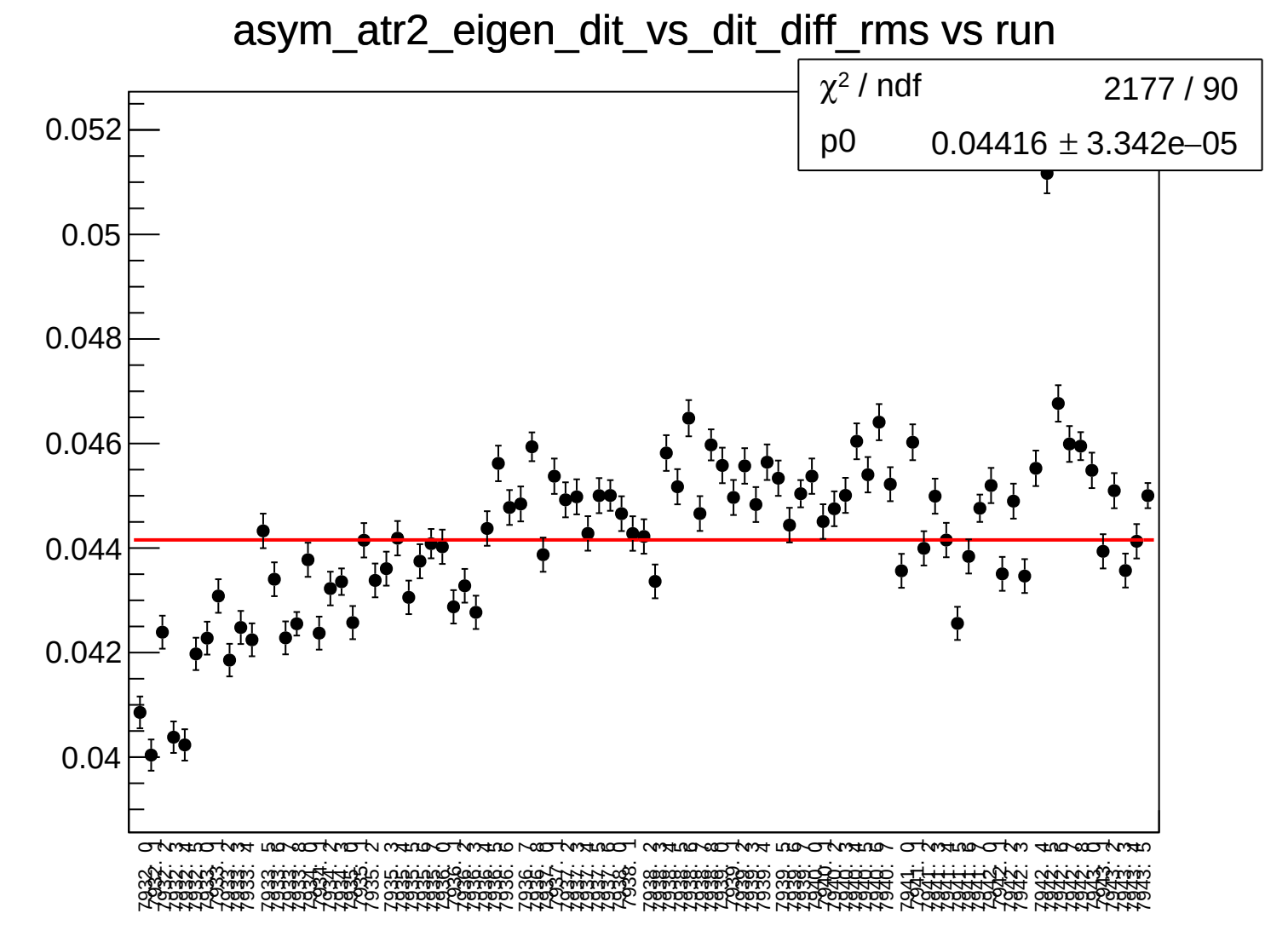

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 7129 / 90
p0 512.6 ± 0.3885
640
620
600
580
560
540
520
500
480
460
440
420

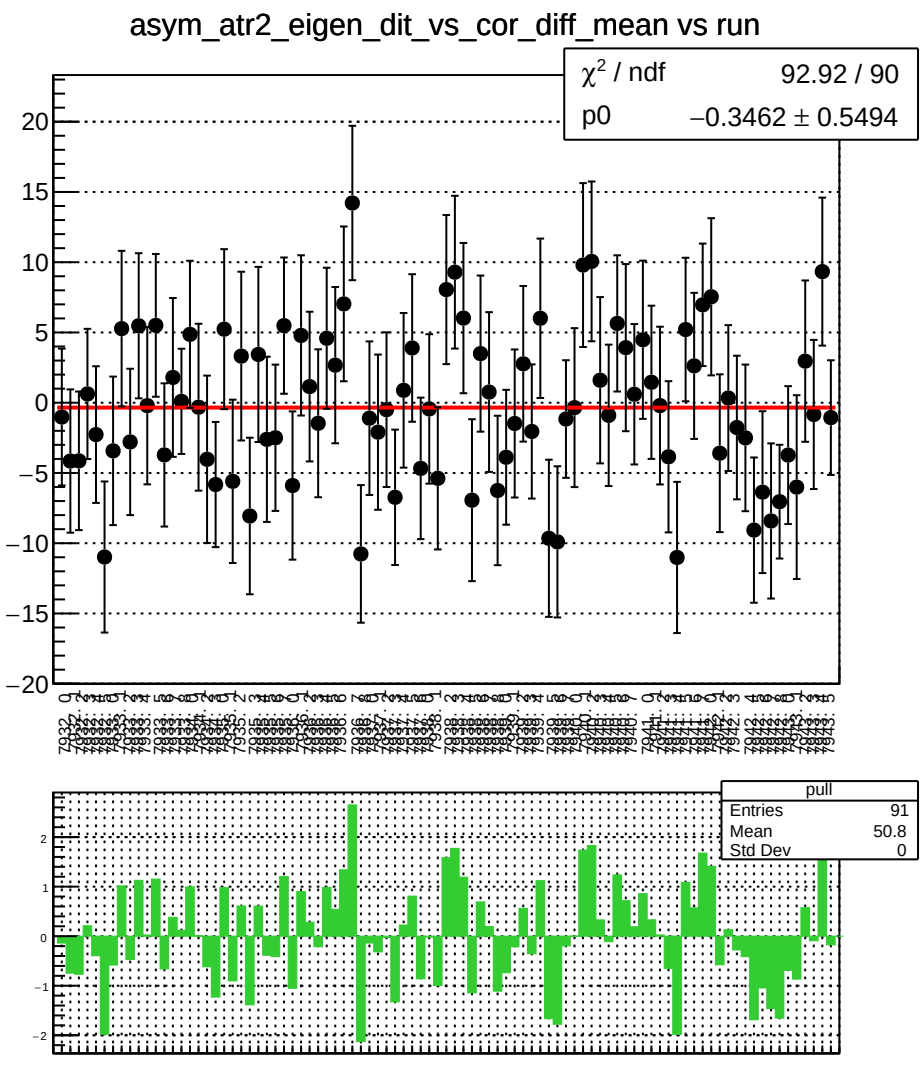

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.92 / 90
p0 −0.3462 ± 0.5494
pull
Entries 91
Mean 50.79
Std Dev 0

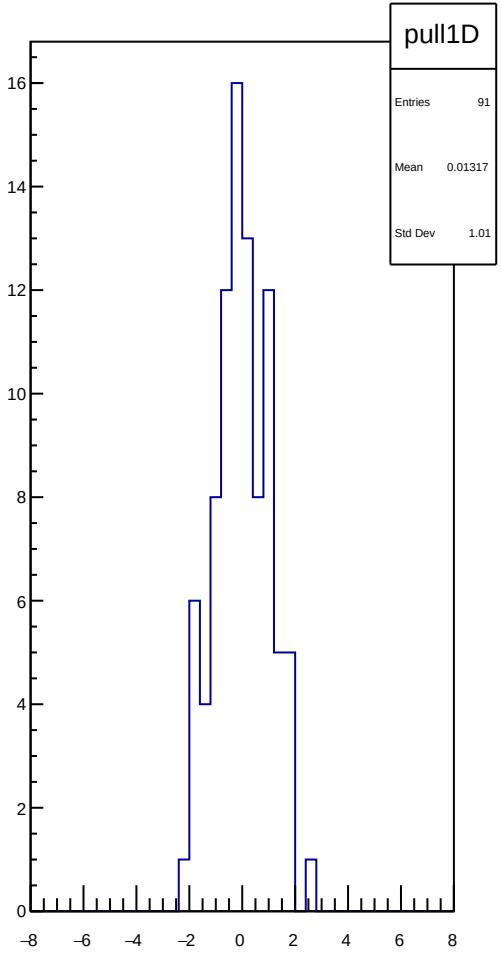

pull1D
Entries 91
Mean 0.01317
Std Dev 1.01

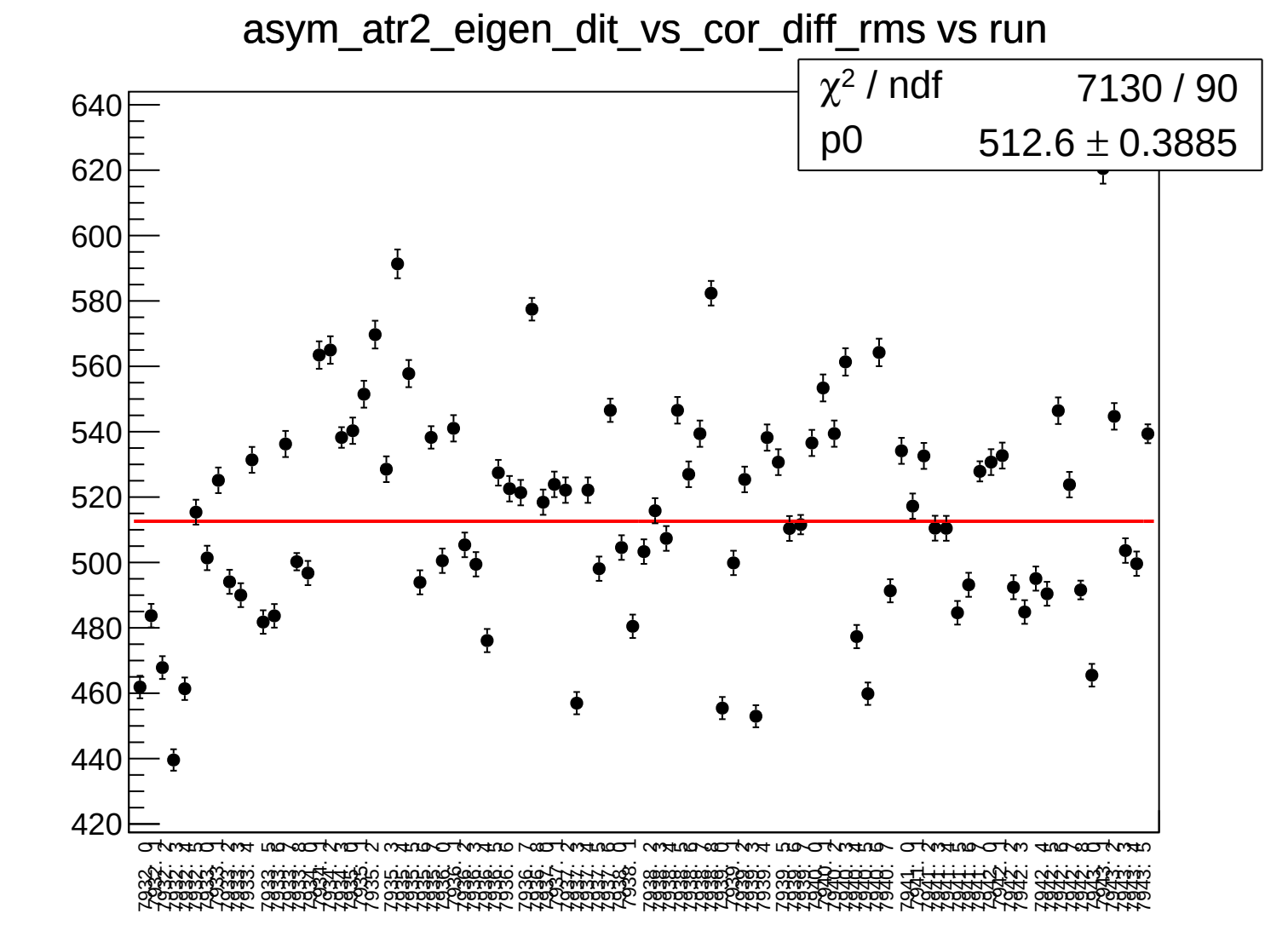

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7129 / 90
p0 512.6 ± 0.3885
640
620
600
580
560
540
520
500
480
460
440
420

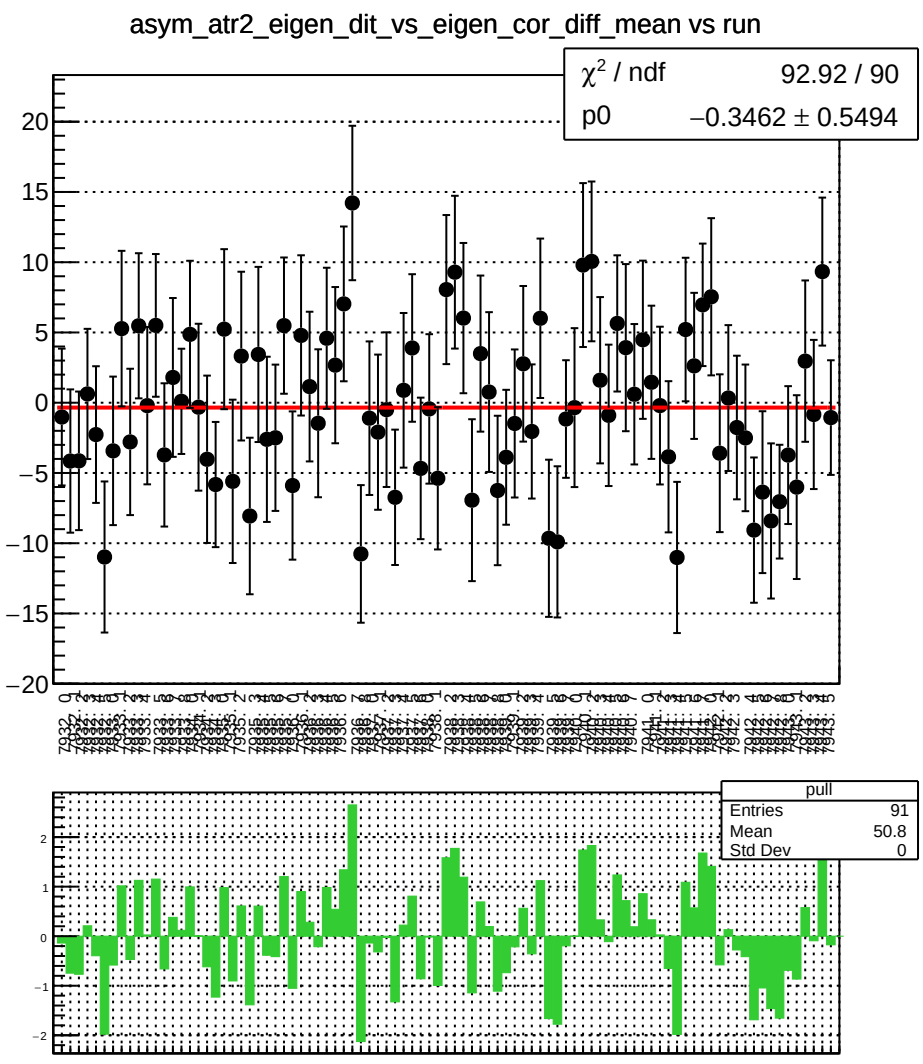

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.5 / 90
p0 −2.334e−05 ± 4.726e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 3.094e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 3.571e−05
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

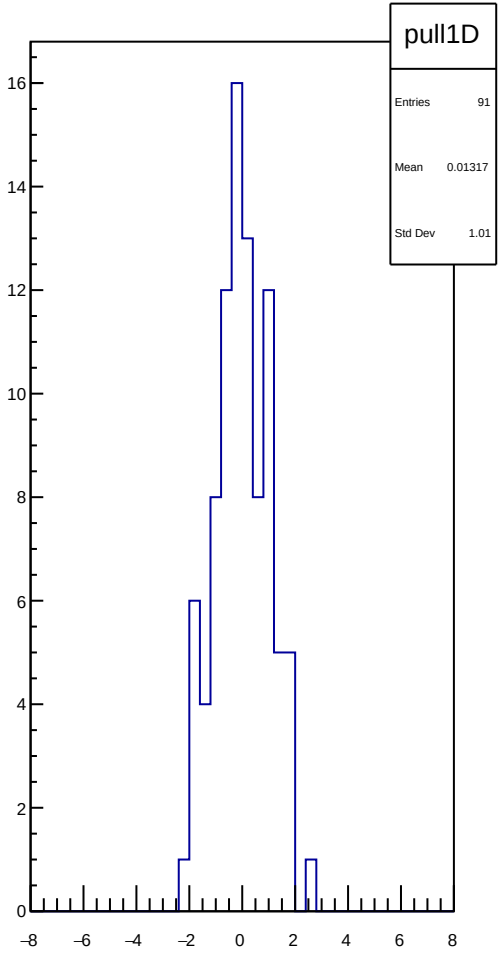

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2177 / 90
p0 0.04416 ± 3.342e−05
0.052
0.05
0.048
0.046
0.044
0.042
0.04

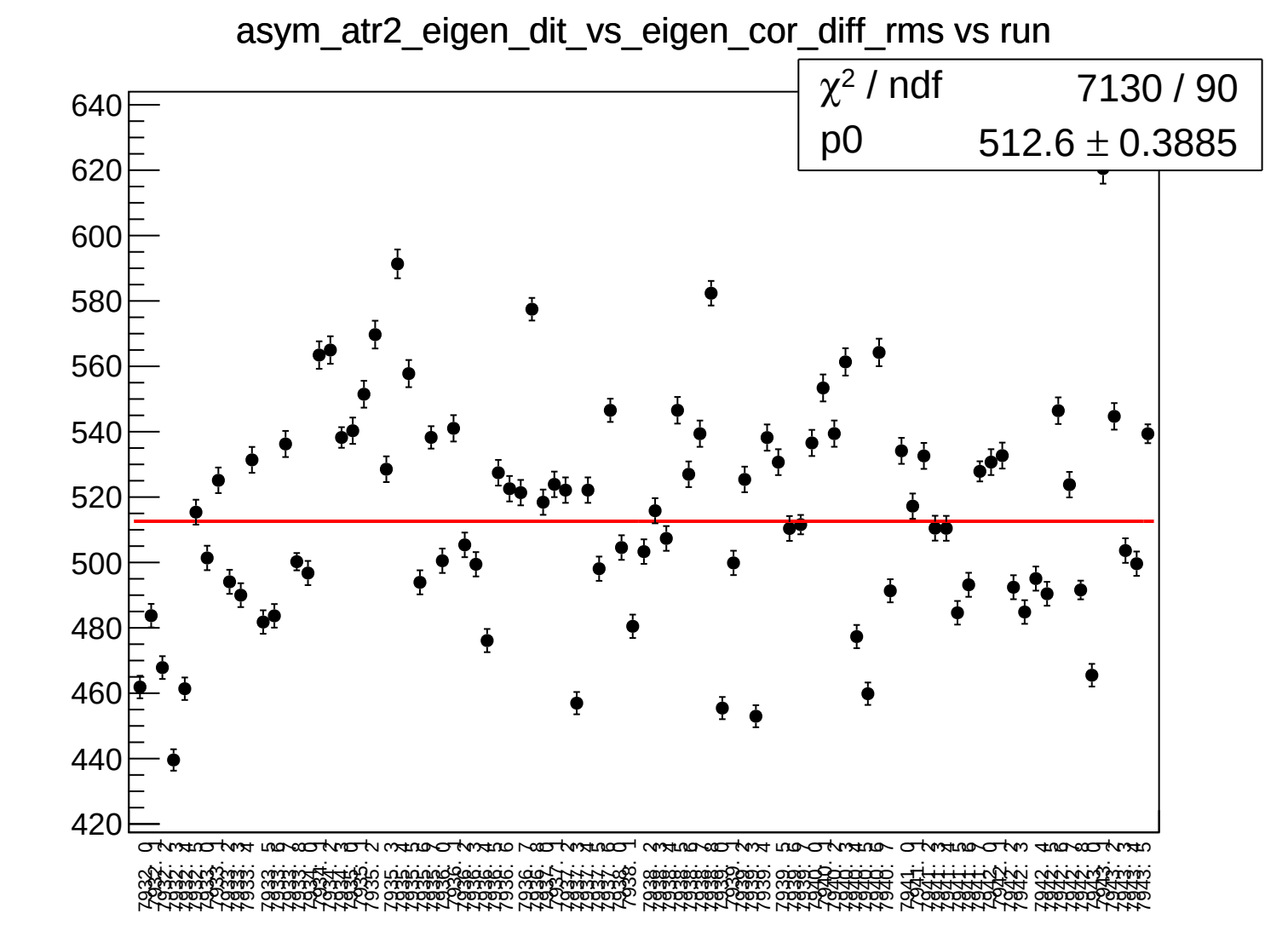

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 92.92 / 90
p0 −0.3462 ± 0.5494
pull
Entries 91
Mean 50.8
Std Dev 0

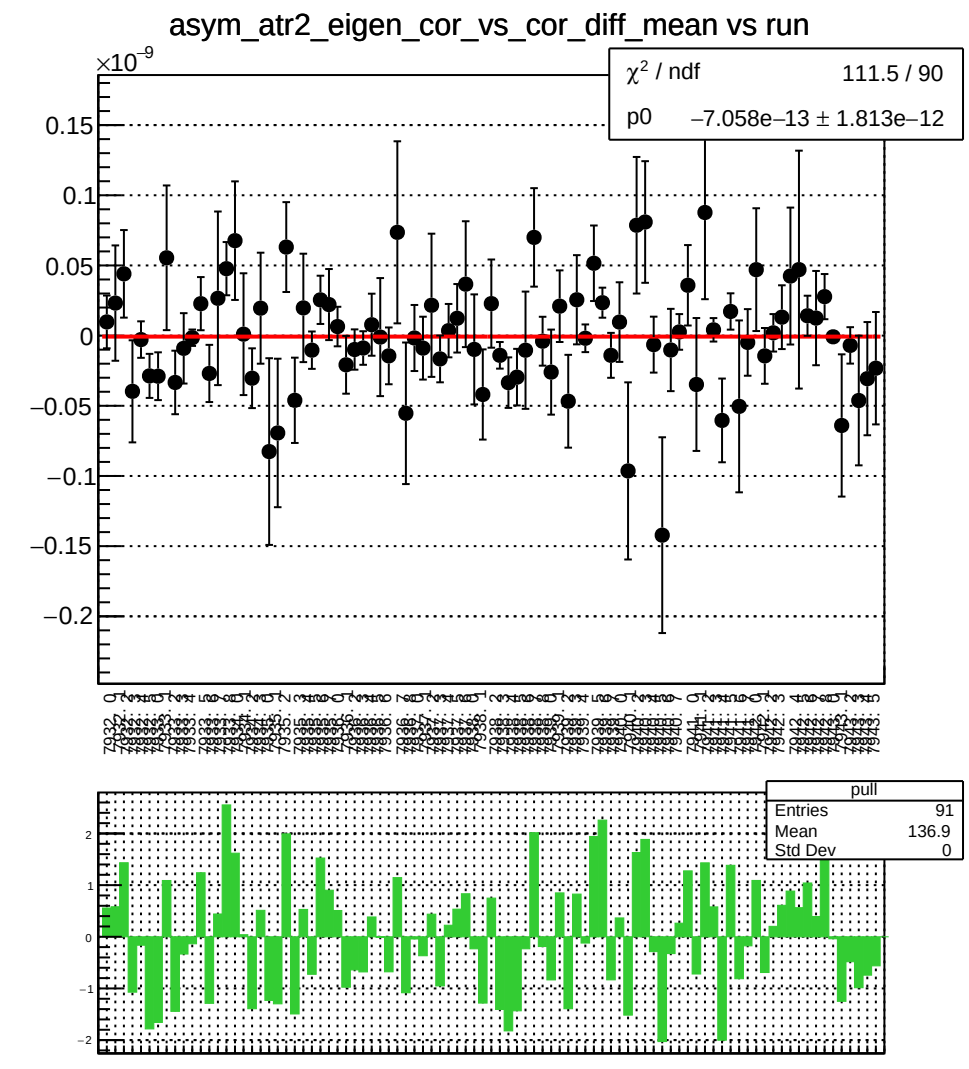

pull1D
Entries 91
Mean 0.01317
Std Dev 1.01

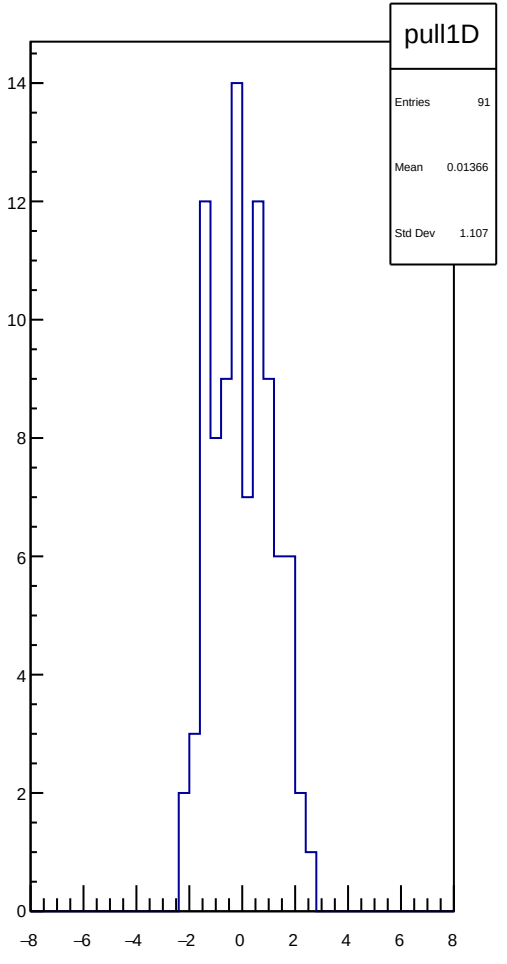

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7130 / 90
p0 512.6 ± 0.3885
640
620
600
580
560
540
520
500
480
460
440
420

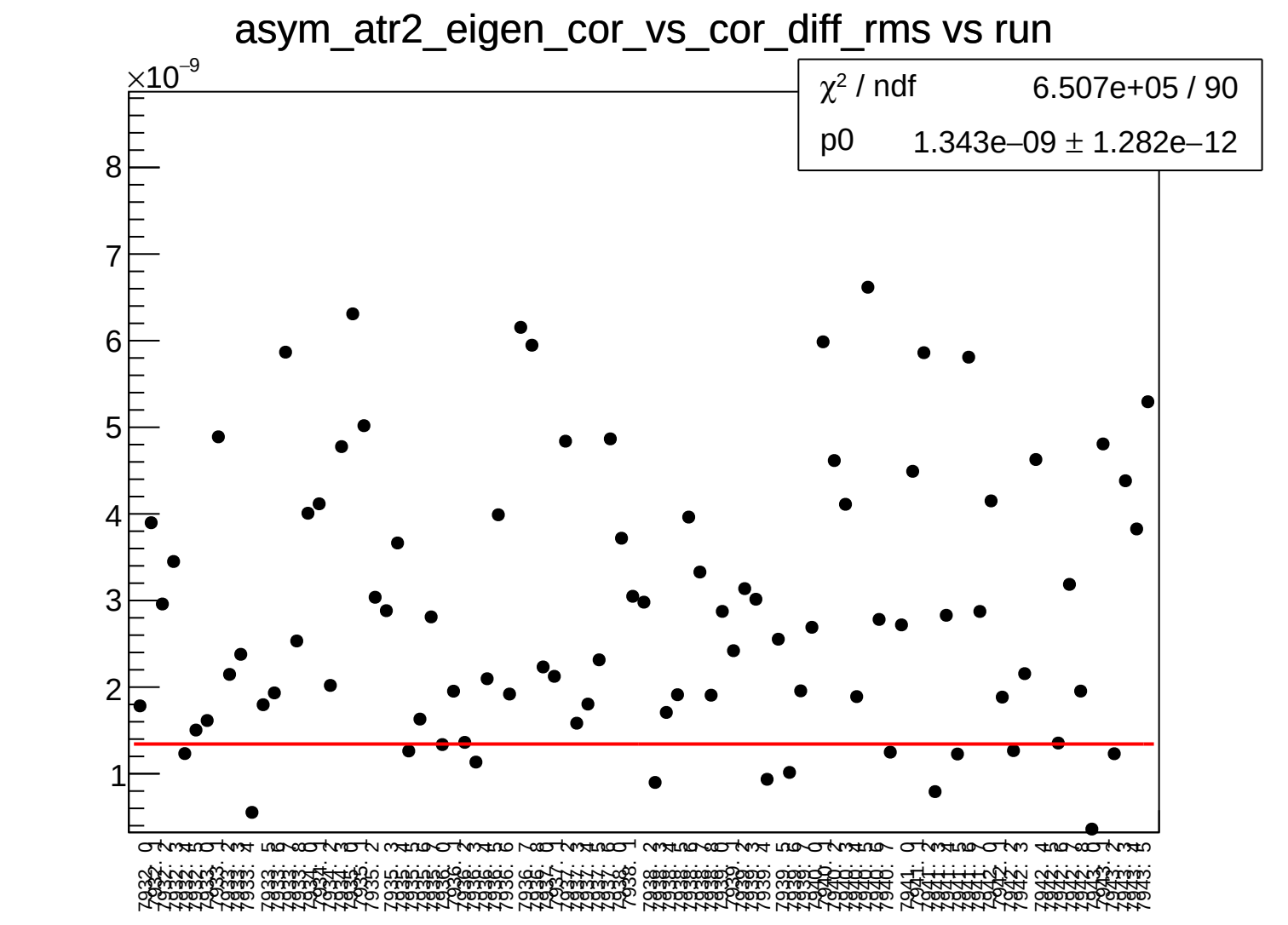

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.92 / 90
p0 −0.3462 ± 0.5494
pull
Entries 91
Mean 50.8
Std Dev 0

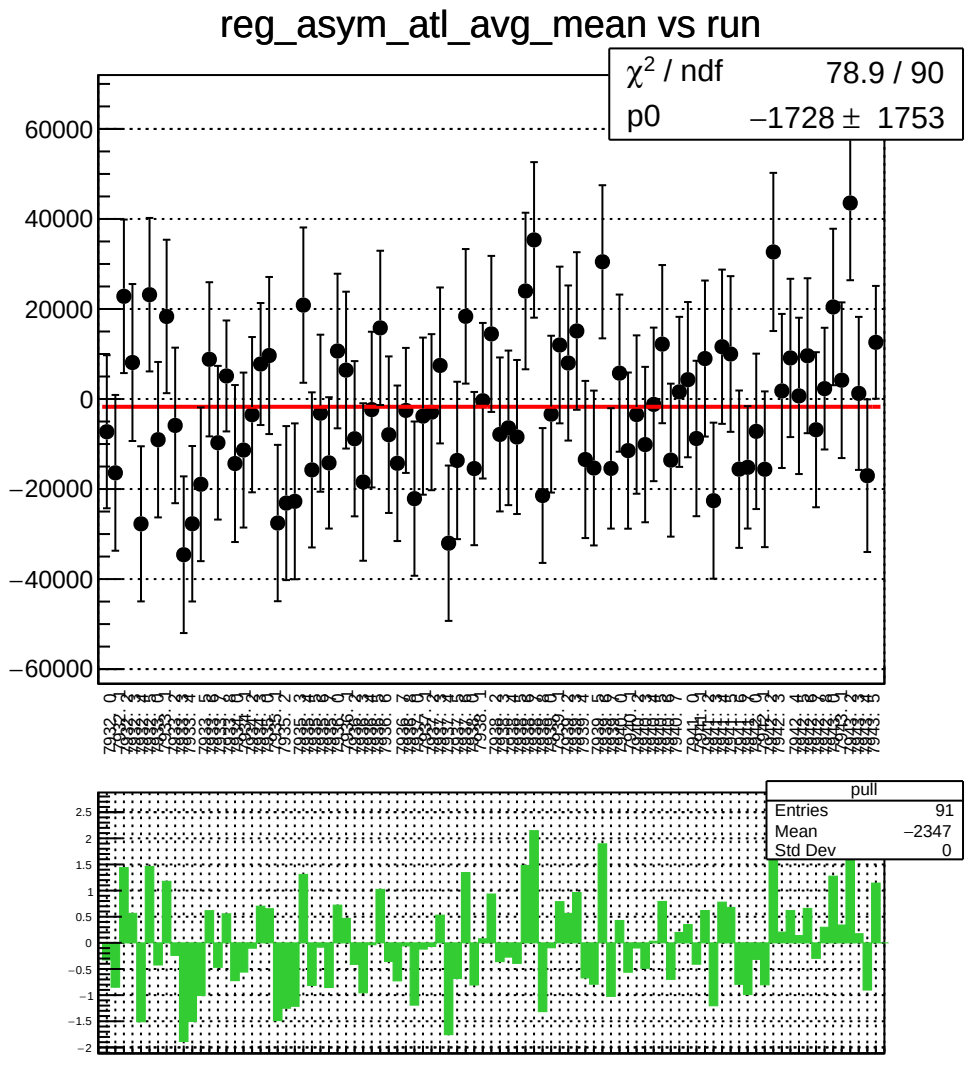

pull1D
Entries 91
Mean 0.01317
Std Dev 1.01

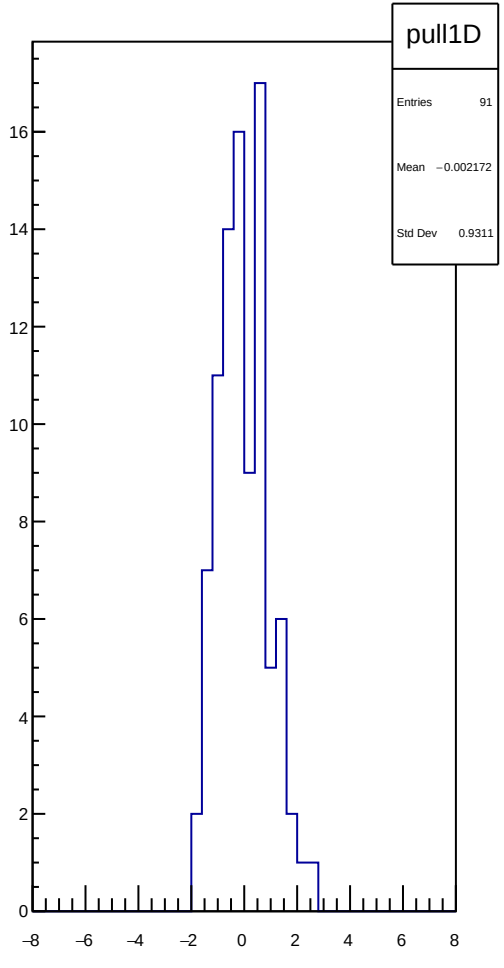

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7130 / 90
p0 512.6 ± 0.3885
640
620
600
580
560
540
520
500
480
460
440
420

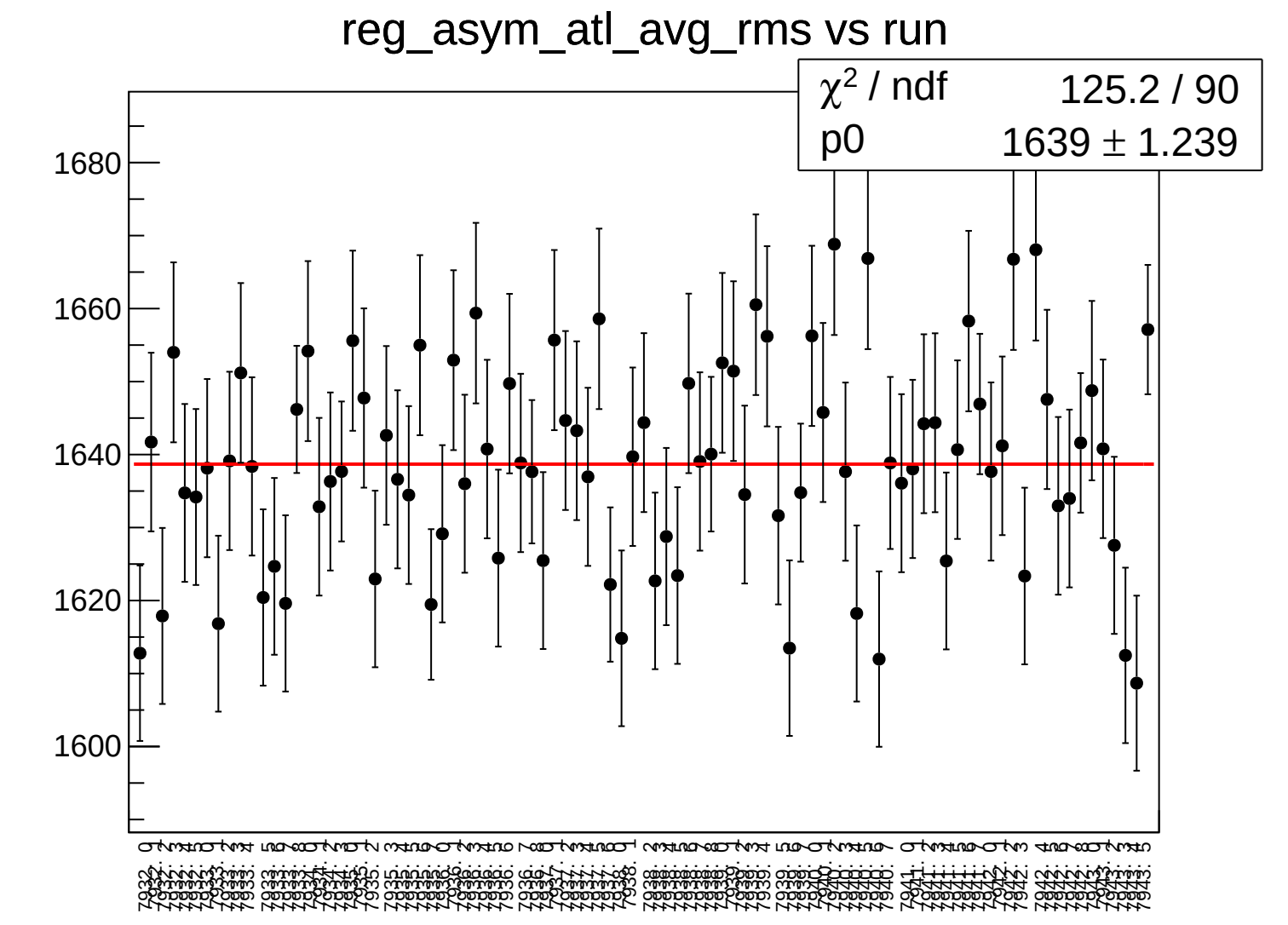

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 111.5 / 90
p0 −7.058e−13 ± 1.813e−12
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 91
Mean 136.9
Std Dev 0
2
1
0
−1
−2

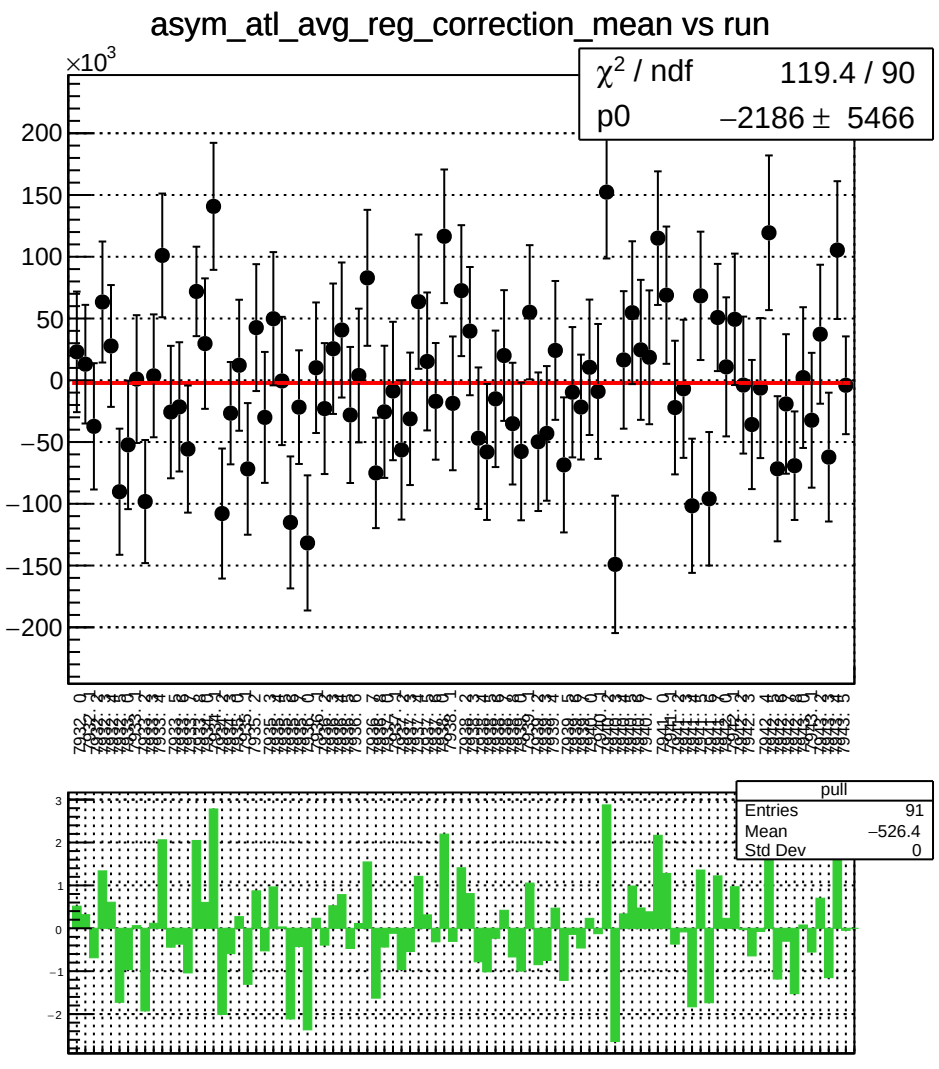

pull1D
Entries 91
Mean 0.01366
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

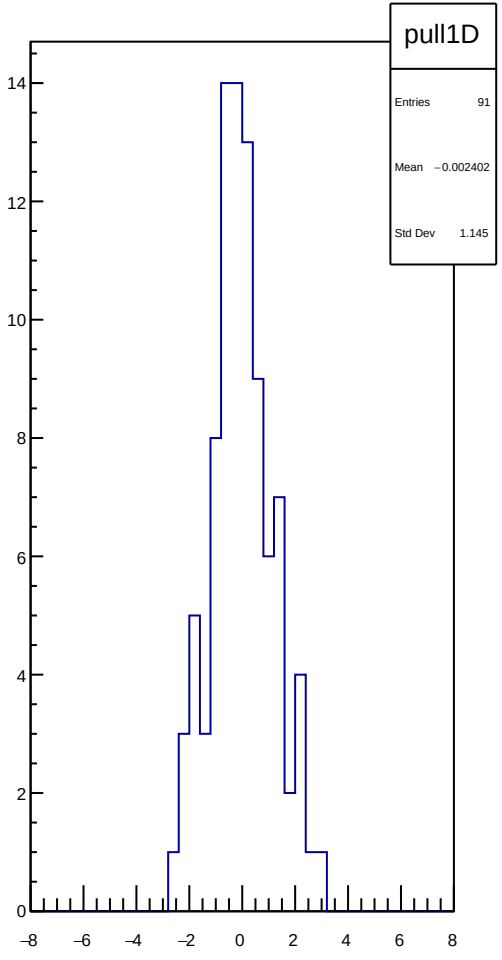

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.507e+05 / 90
p0 1.343e−09 ± 1.282e−12
8
7
6
5
4
3
2
1

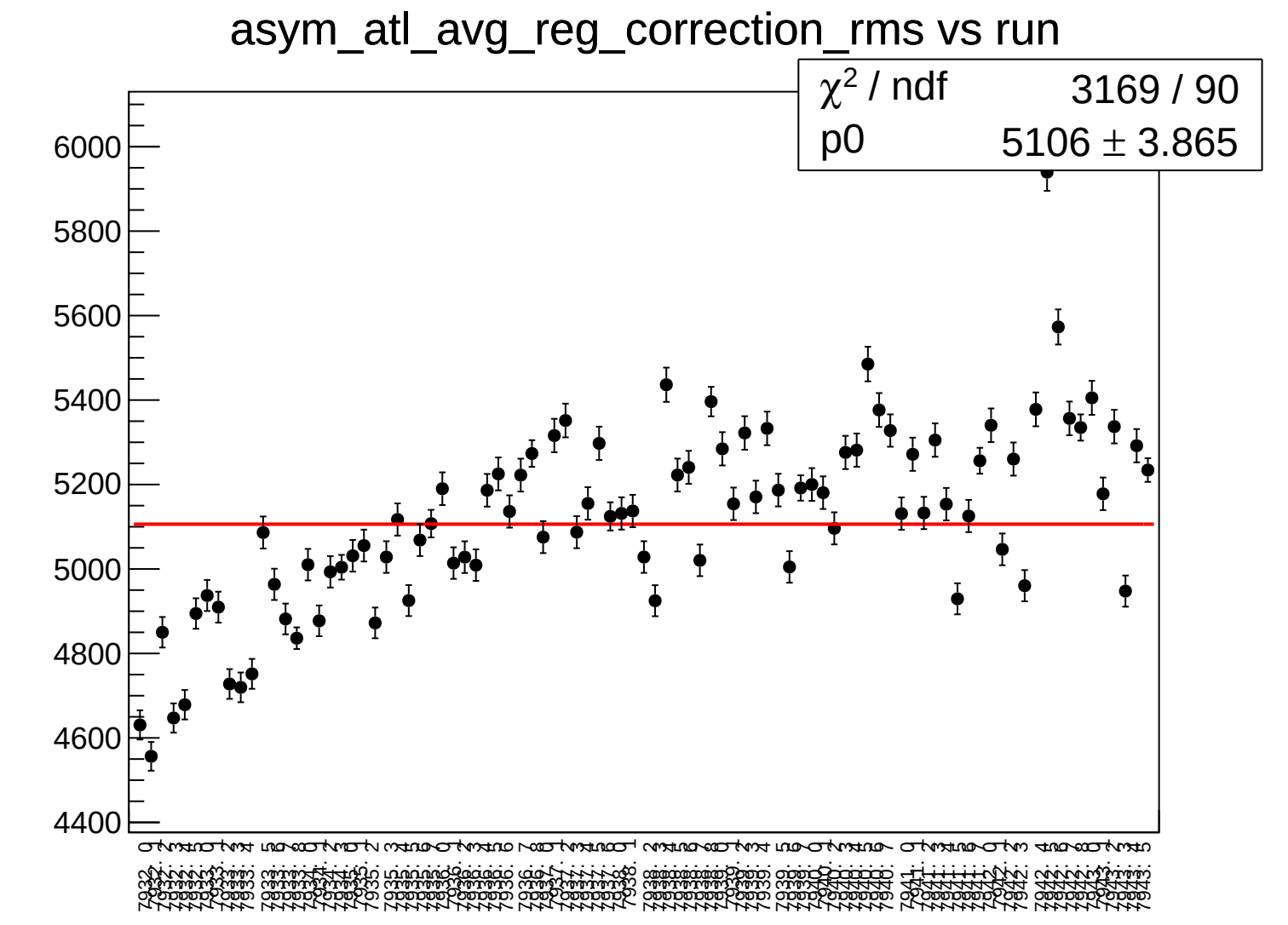

reg_asym_atl_avg_mean vs run
χ² / ndf 78.9 / 90
p0 −1728 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2347
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

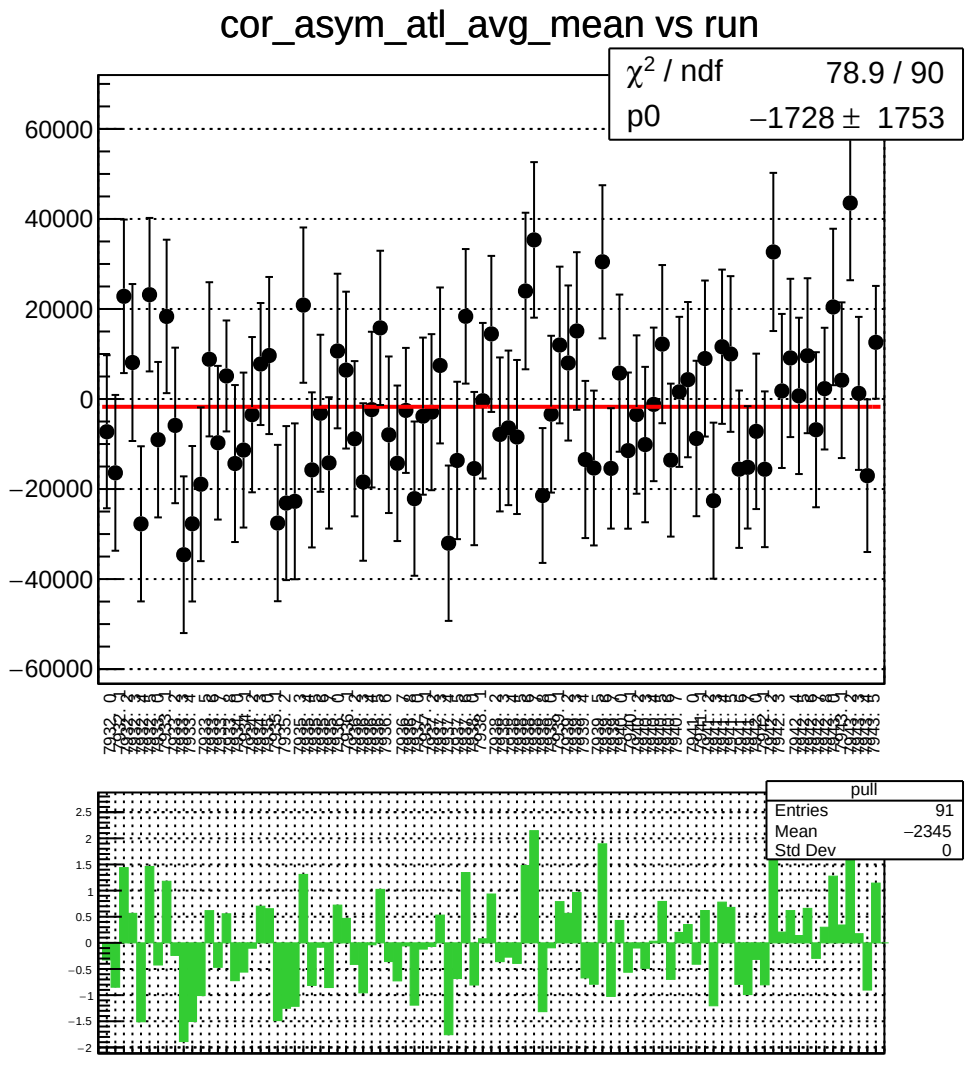

pull1D
Entries 91
Mean −0.002172
Std Dev 0.9311
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

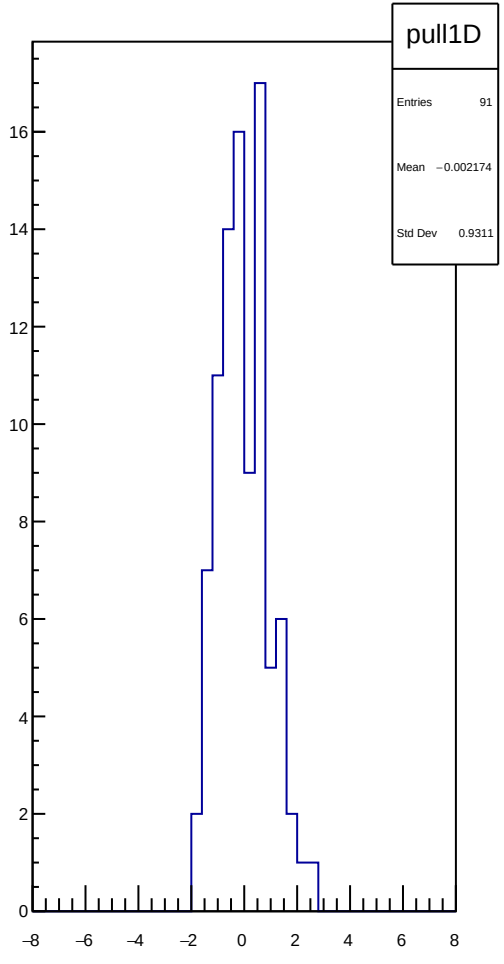

reg_asym_atl_avg_rms vs run
χ^2 / ndf 125.2 / 90
p0 1639 ± 1.239
1680
1660
1640
1620
1600

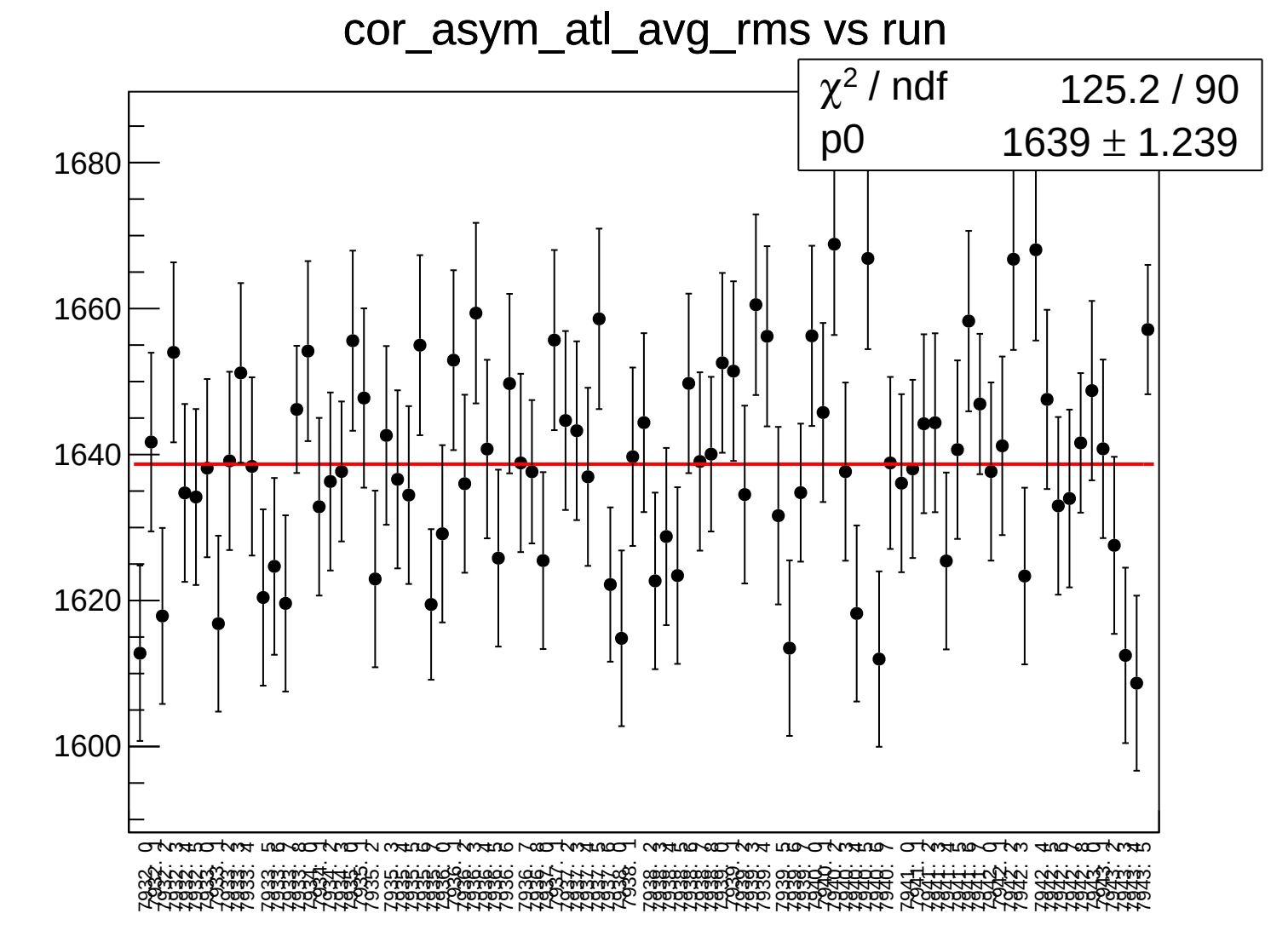

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 119.4 / 90
p0 −2186 ± 5466
×10³
pull
Entries 91
Mean −526.4
Std Dev 0

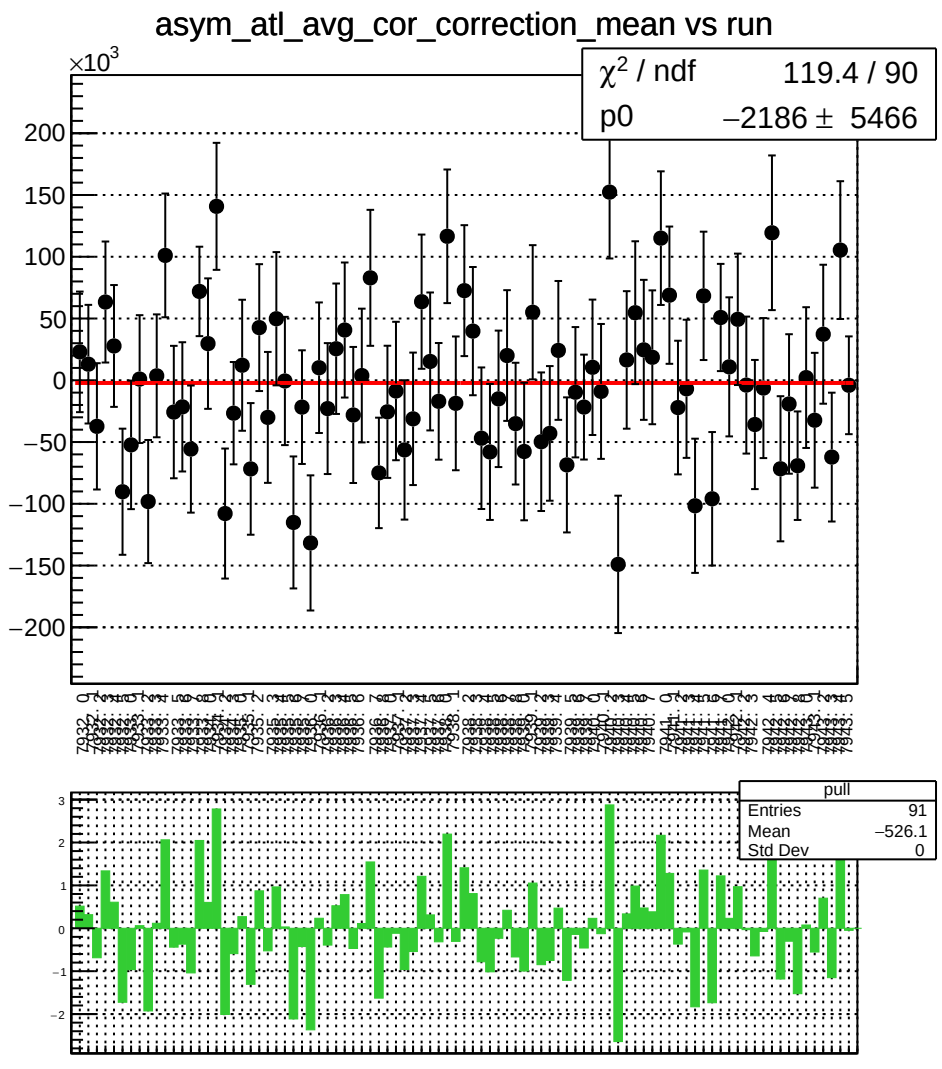

pull1D
Entries 91
Mean −0.002402
Std Dev 1.145

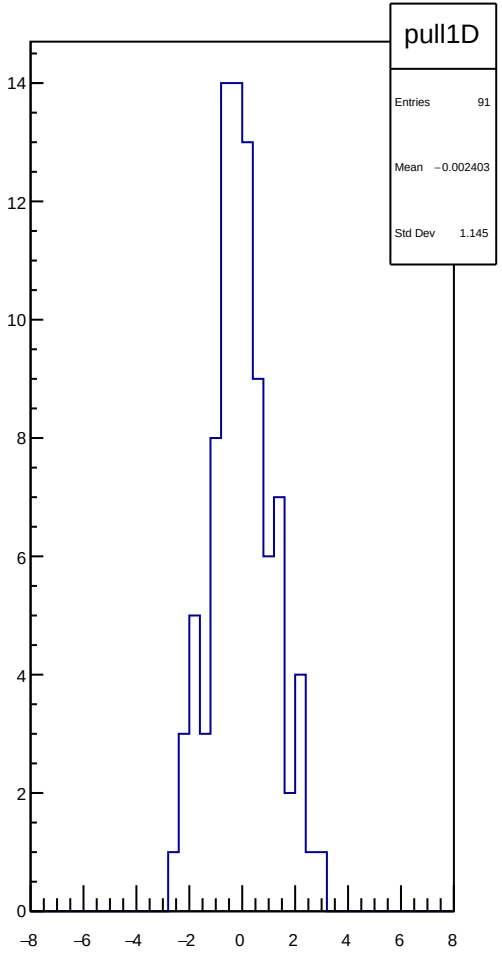

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 3169 / 90
p0 5106 ± 3.865
6000
5800
5600
5400
5200
5000
4800
4600
4400

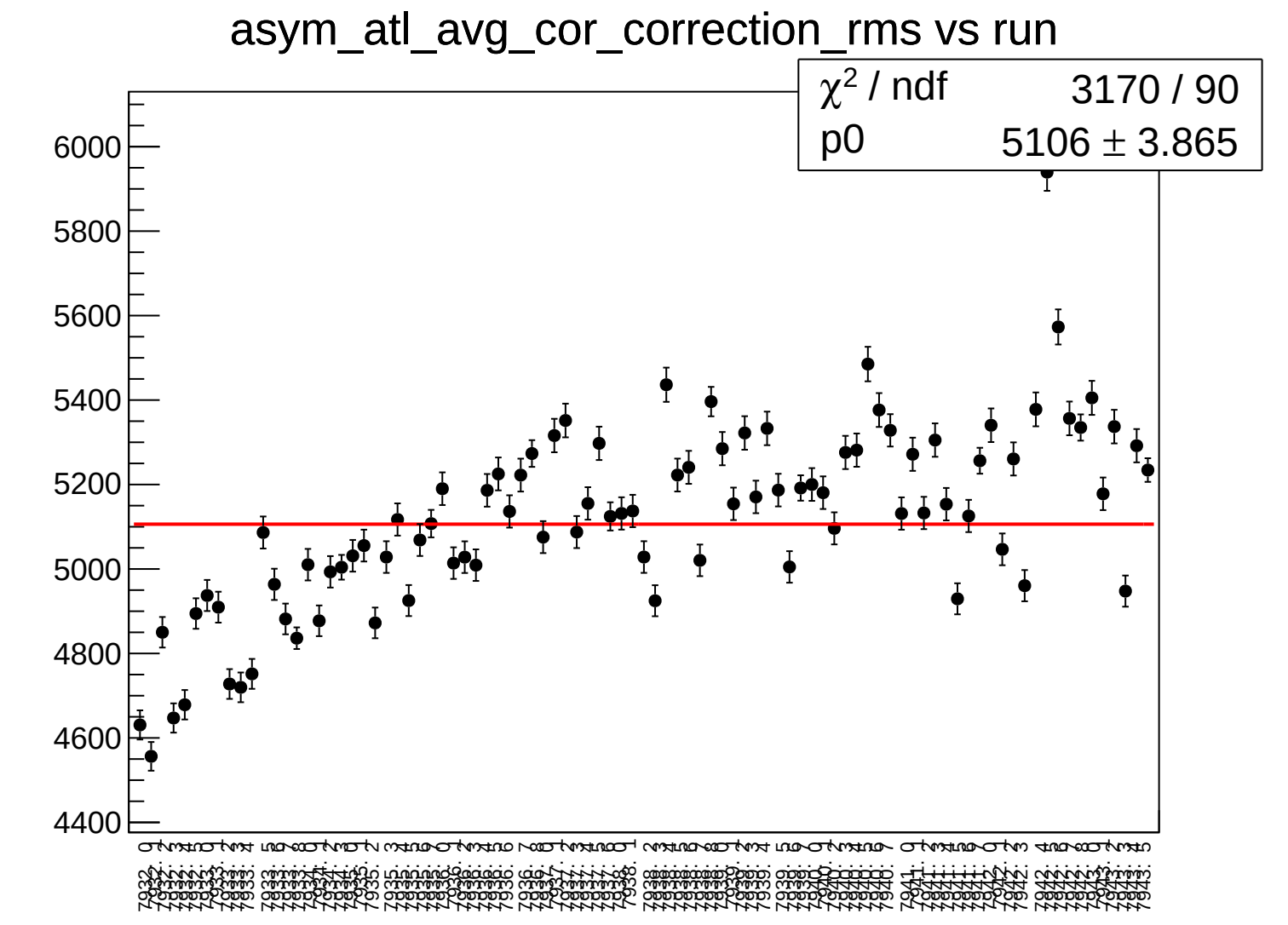

cor_asym_atl_avg_mean vs run
χ² / ndf 78.9 / 90
p0 −1728 ± 1753
pull
Entries 91
Mean −2345
Std Dev 0

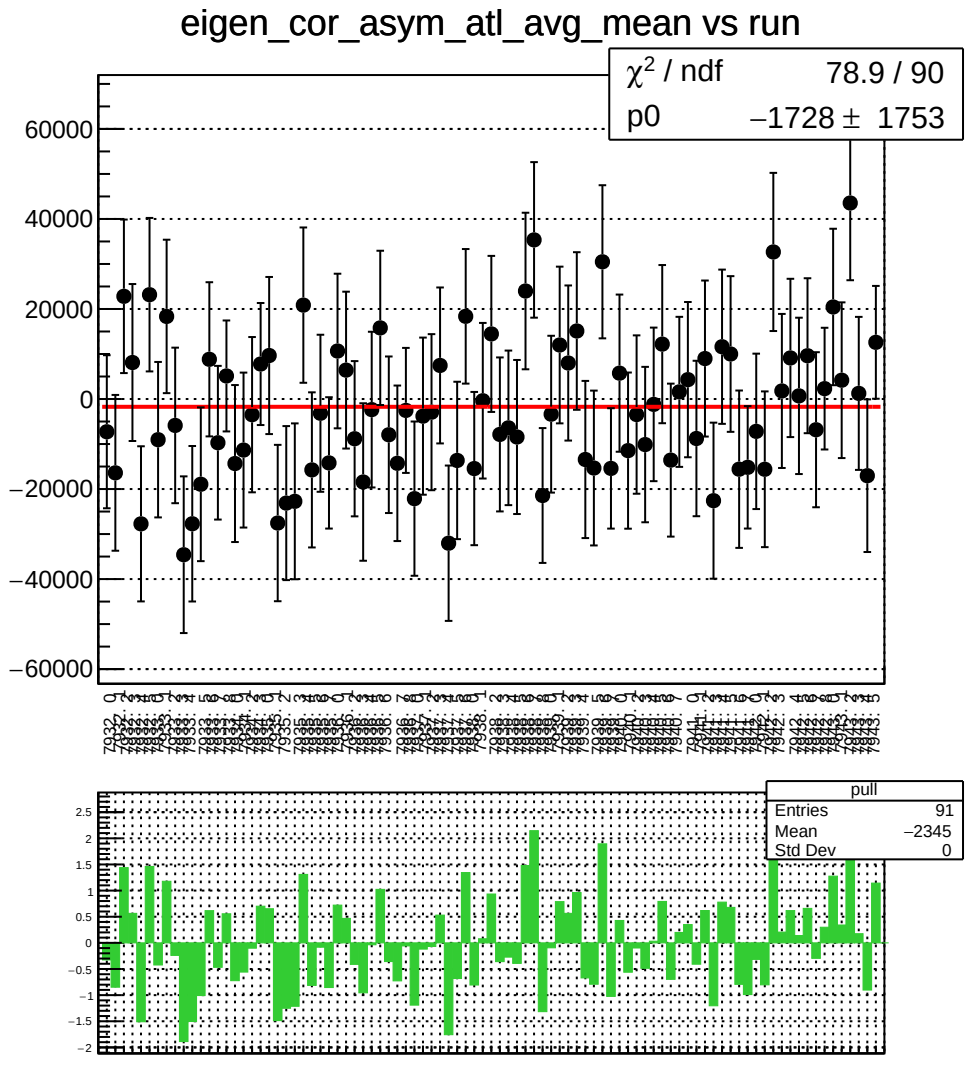

pull1D
Entries 91
Mean −0.002174
Std Dev 0.9311

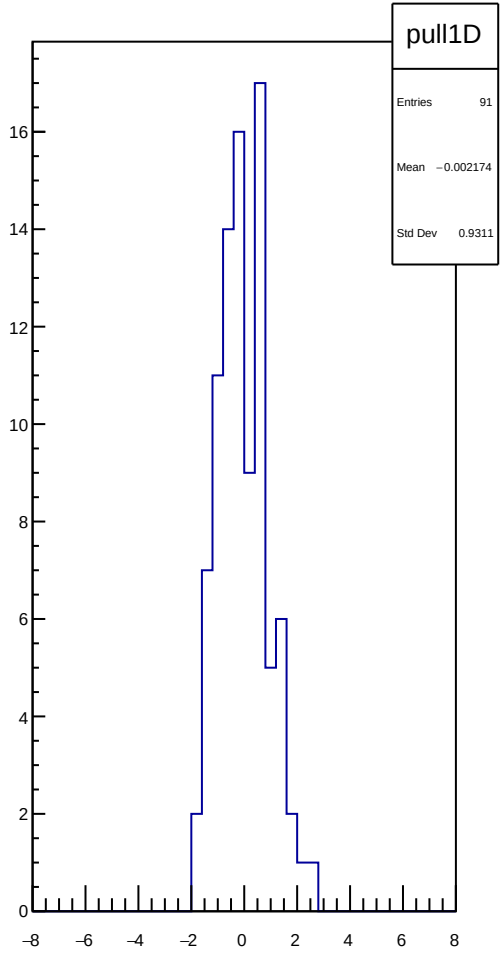

cor_asym_atl_avg_rms vs run
χ^2 / ndf 125.2 / 90
p0 1639 ± 1.239
1680
1660
1640
1620
1600

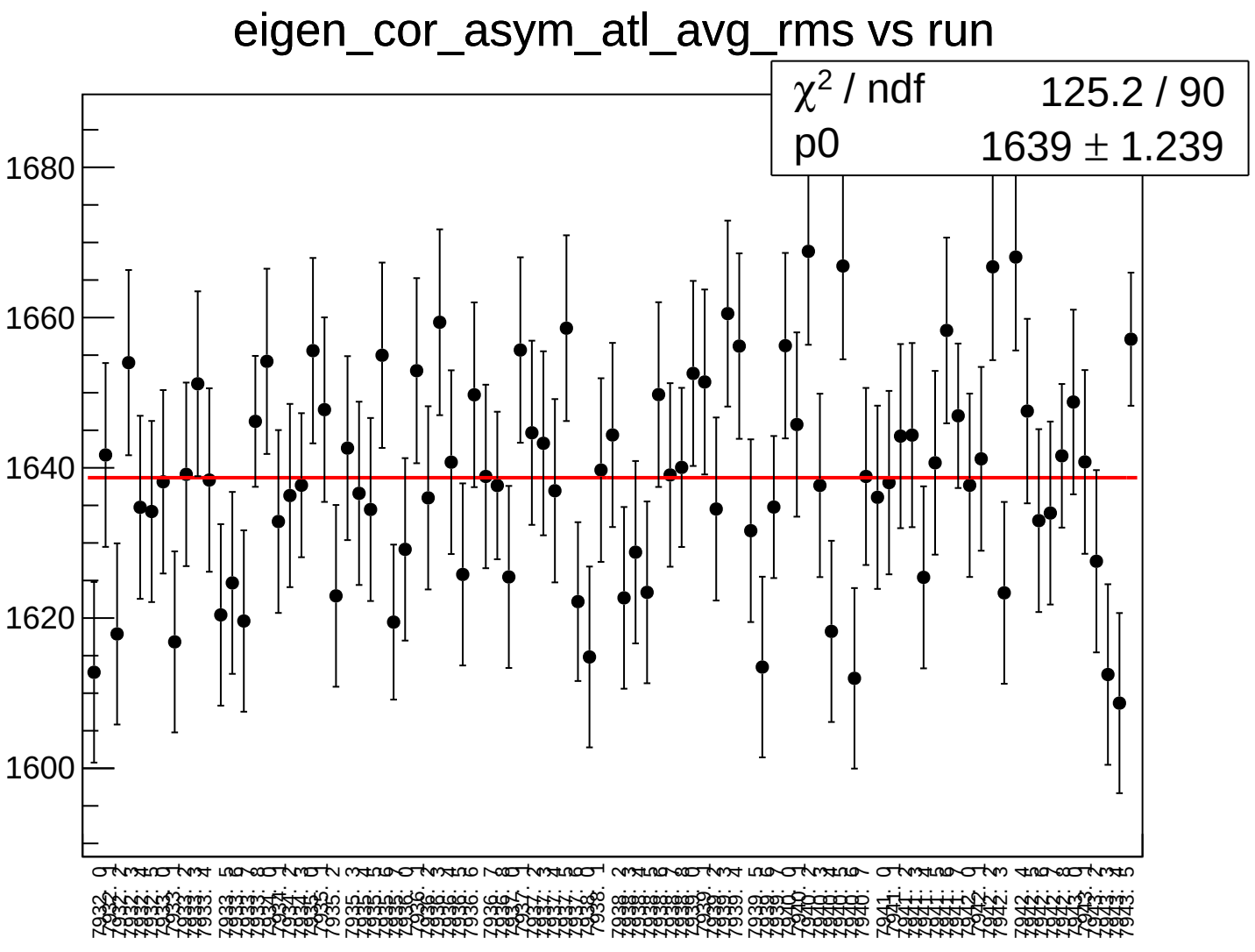

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 119.4 / 90
p0 −2186 ± 5466
×10³
pull
Entries 91
Mean −526.1
Std Dev 0

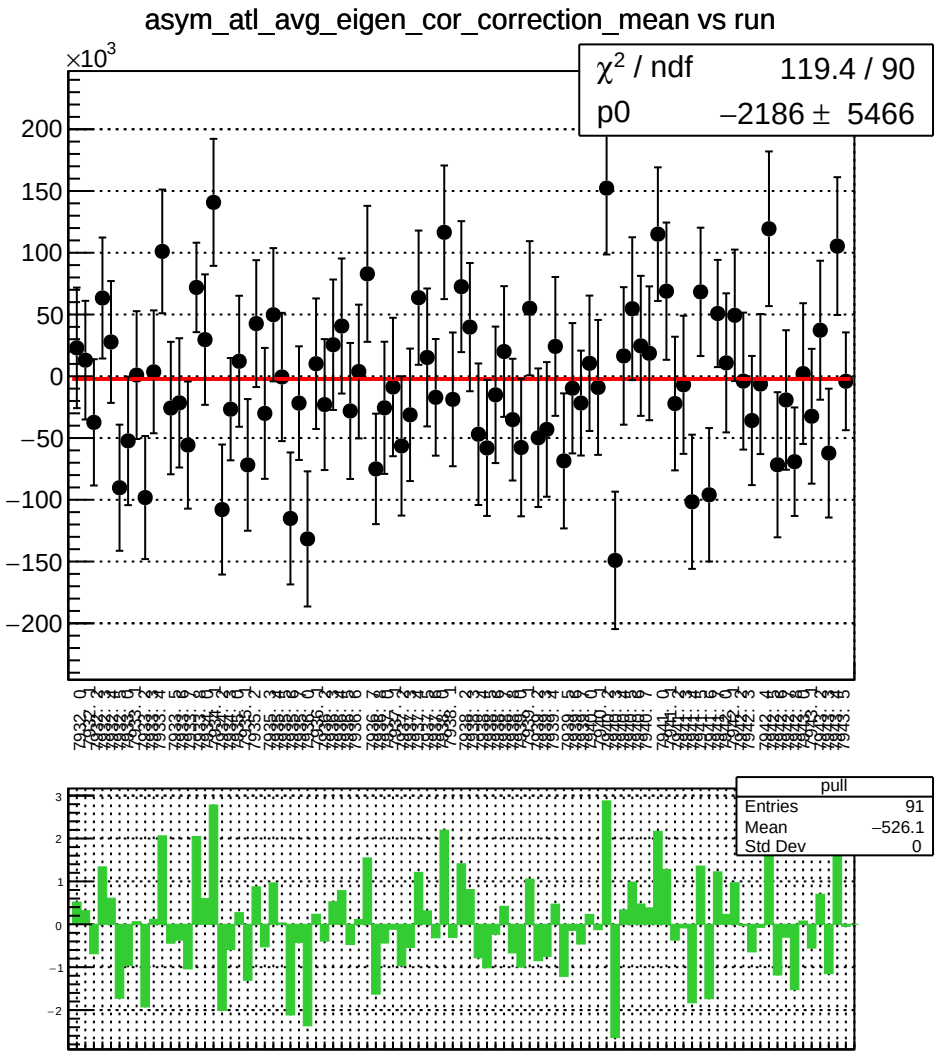

pull1D
Entries 91
Mean −0.002403
Std Dev 1.145

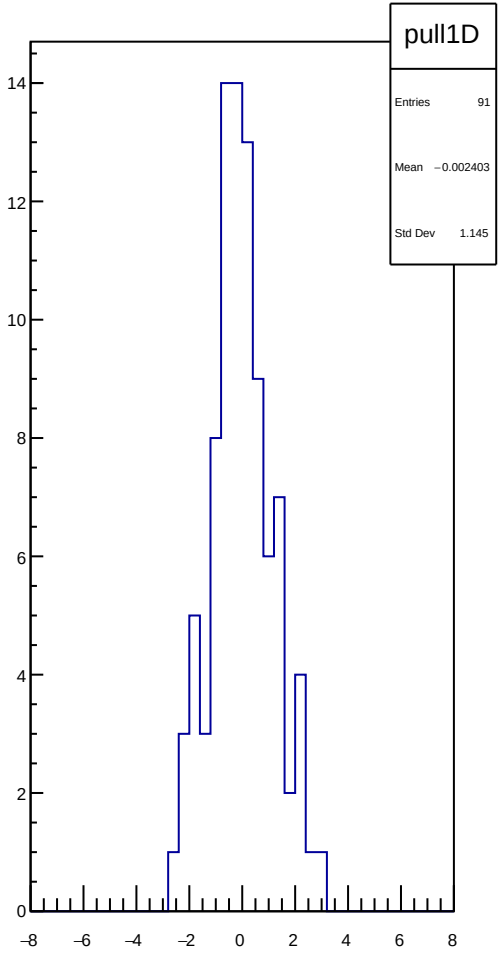

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 3170 / 90
p0 5106 ± 3.865
6000
5800
5600
5400
5200
5000
4800
4600
4400

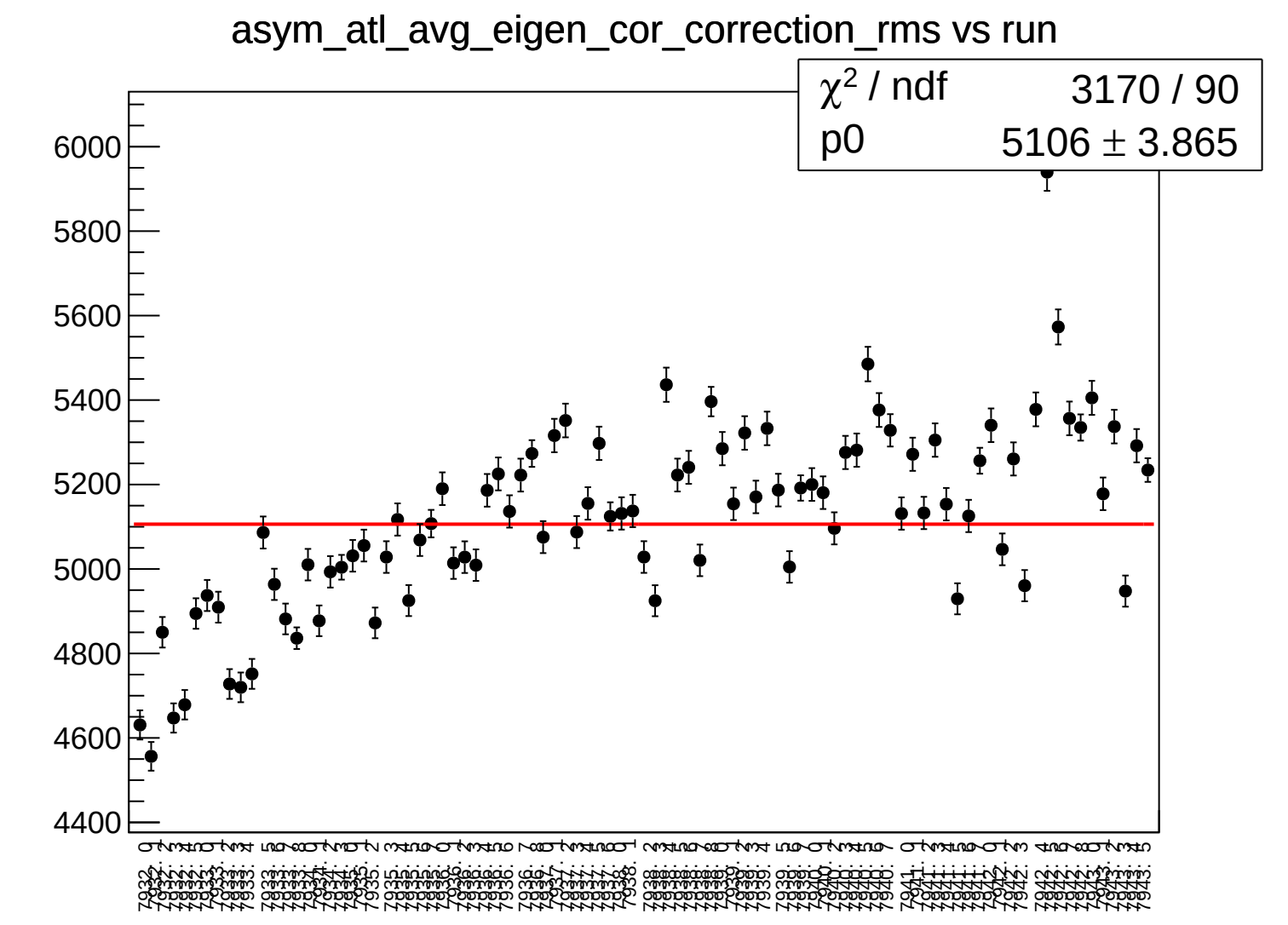

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 78.9 / 90
p0 −1728 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2345
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

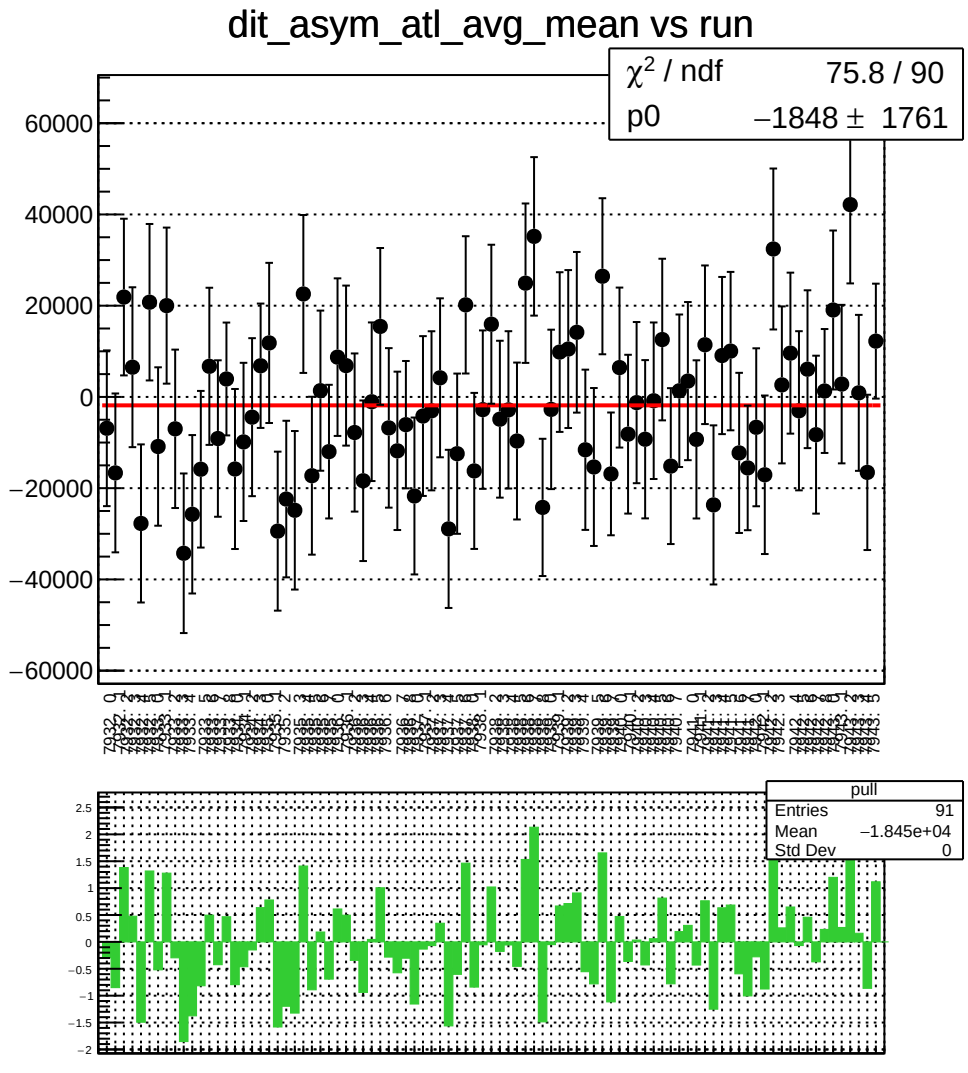

pull1D
Entries 91
Mean −0.002174
Std Dev 0.9311
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

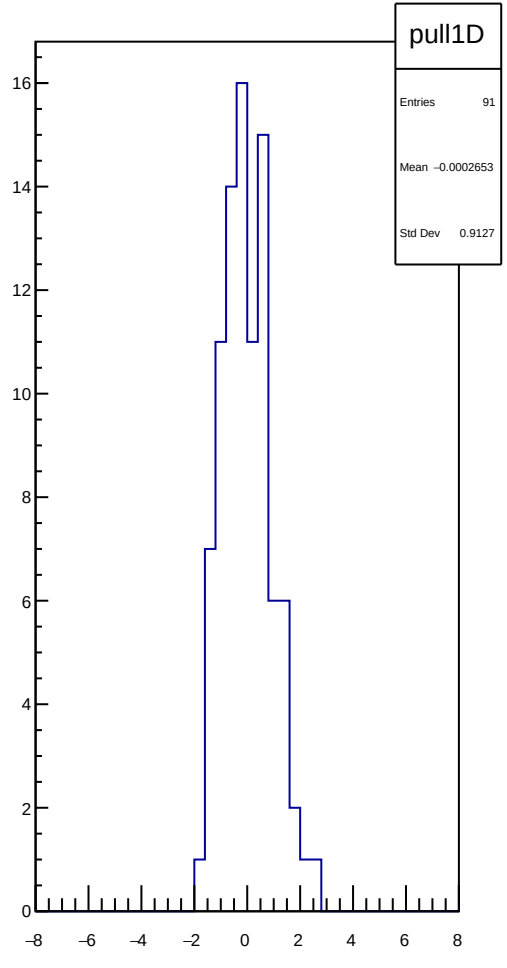

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 125.2 / 90
p0 1639 ± 1.239
1680
1660
1640
1620
1600

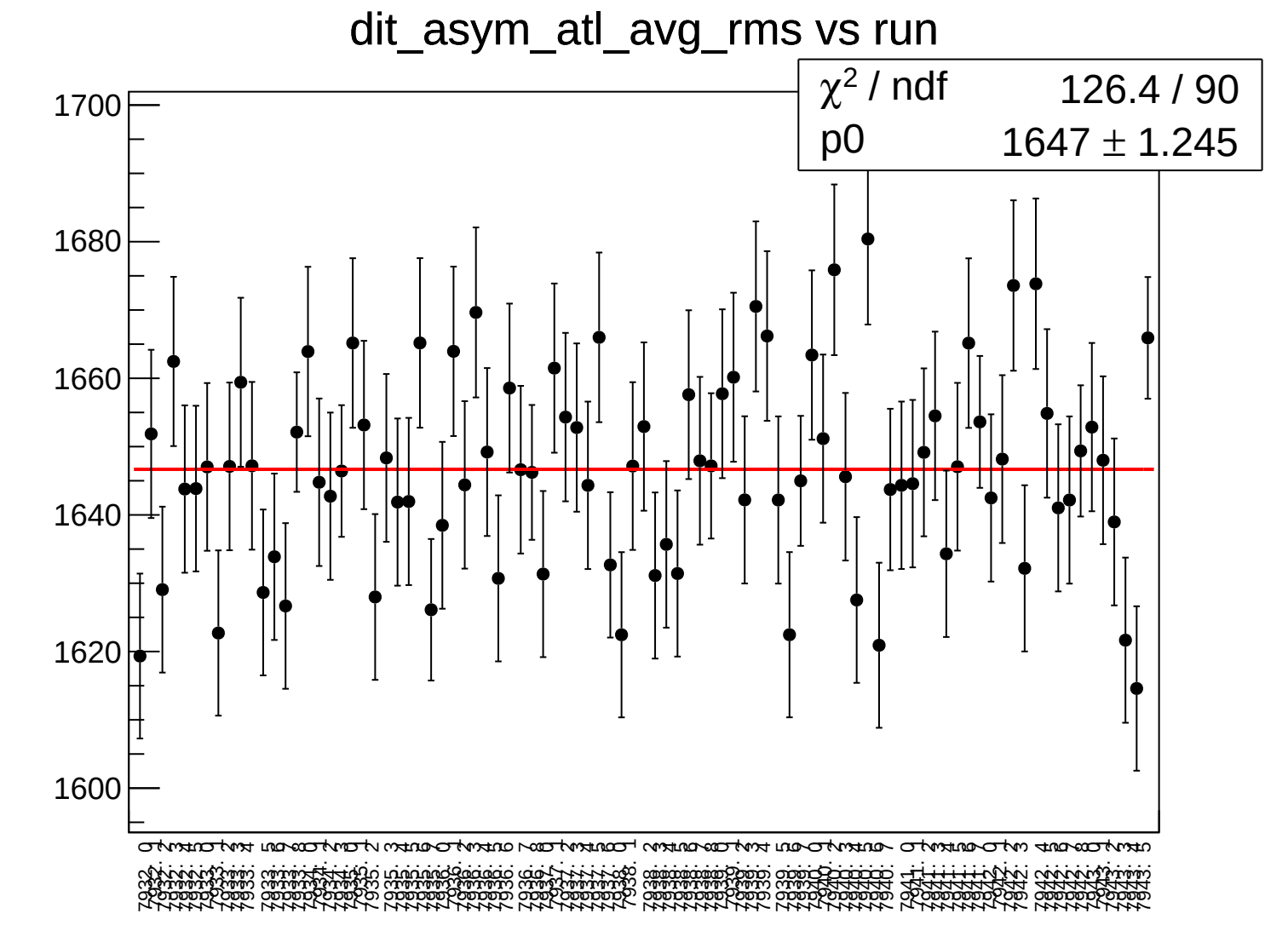

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 119.4 / 90
p0 −2186 ± 5466
×10³
pull
Entries 91
Mean −526.1
Std Dev 0

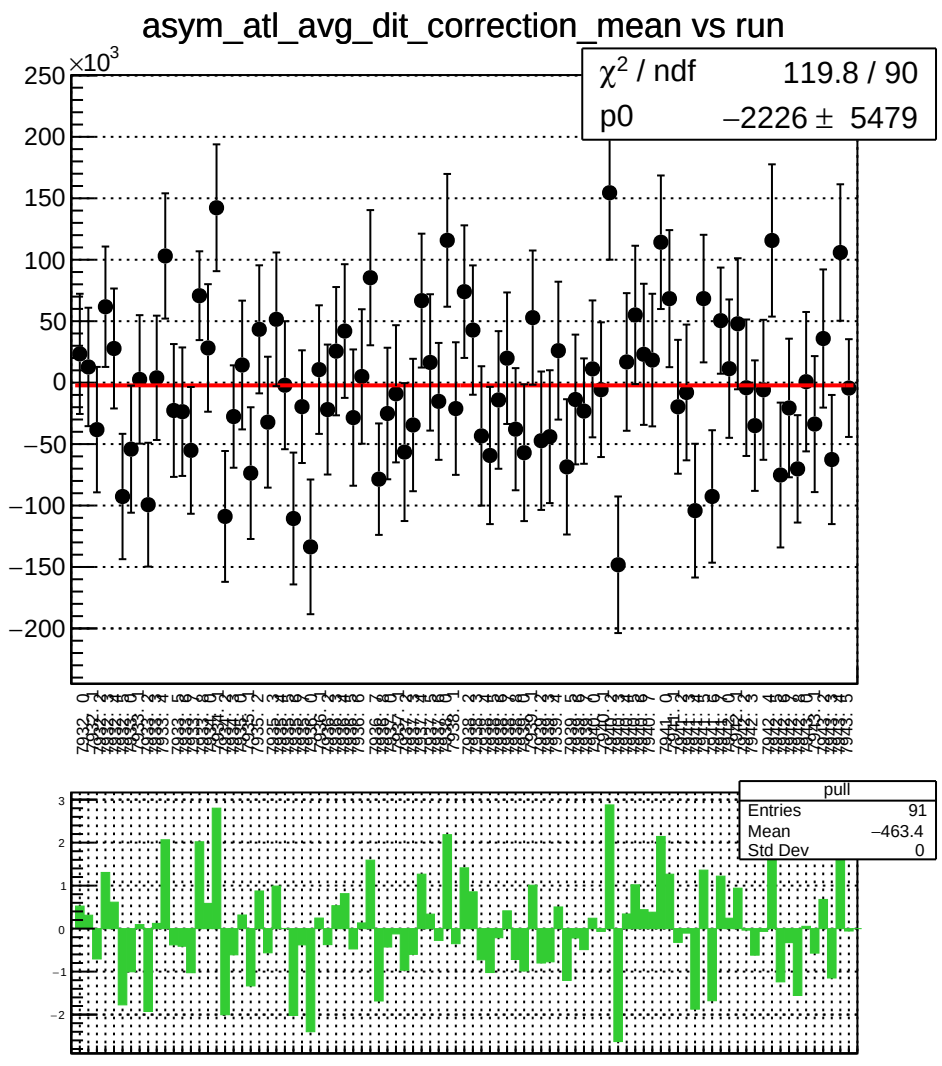

pull1D
Entries 91
Mean −0.002403
Std Dev 1.145

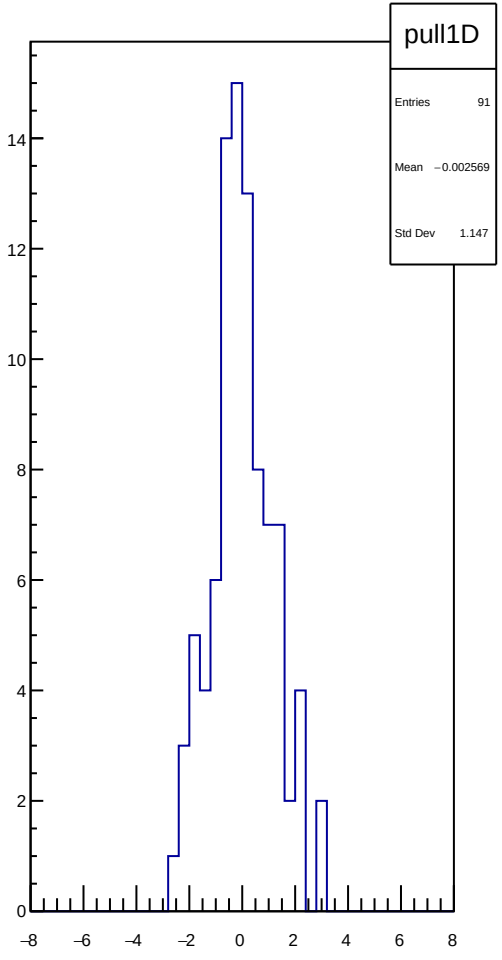

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3170 / 90
p0 5106 ± 3.865
6000
5800
5600
5400
5200
5000
4800
4600
4400

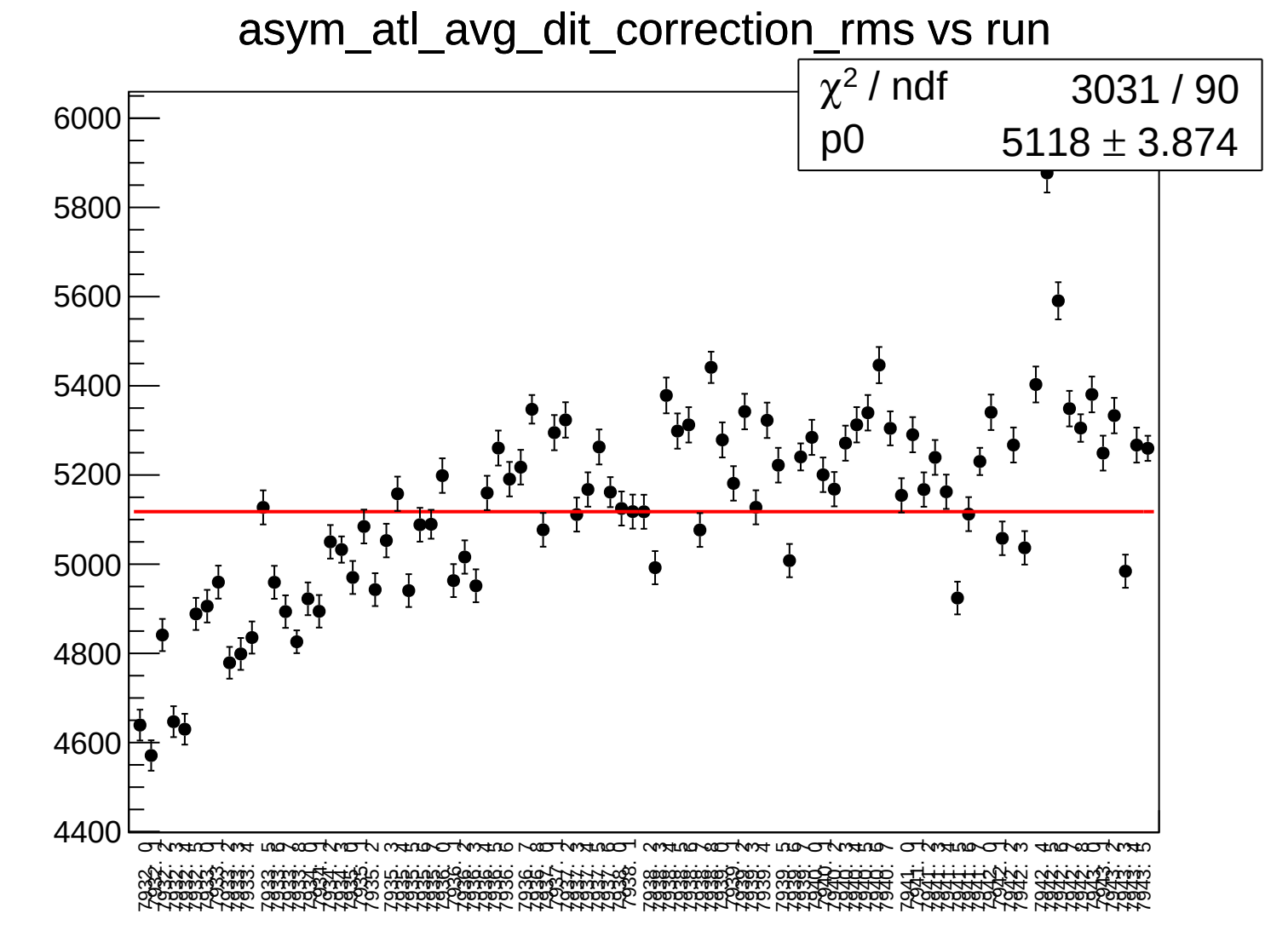

dit_asym_atl_avg_mean vs run
χ² / ndf 75.8 / 90
p0 −1848 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1.845e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

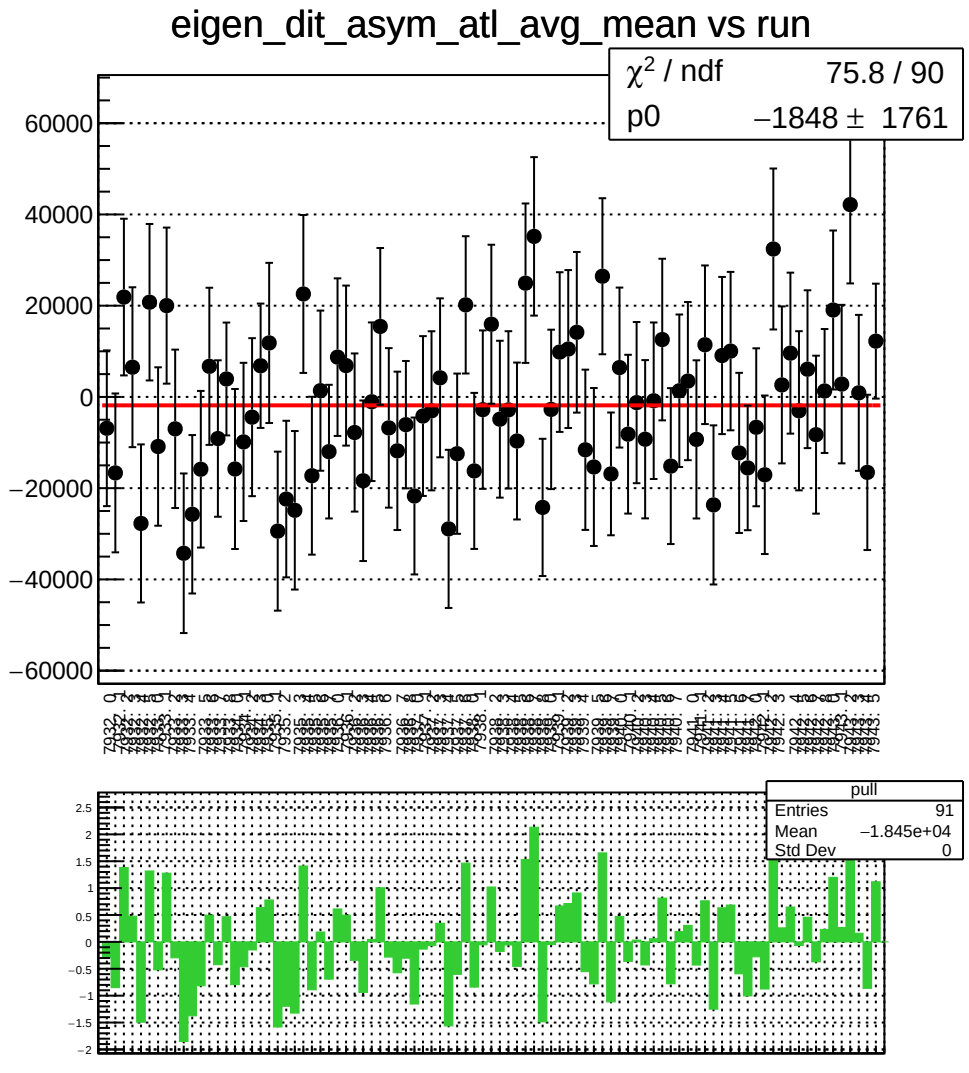

pull1D
Entries 91
Mean −0.0002653
Std Dev 0.9127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

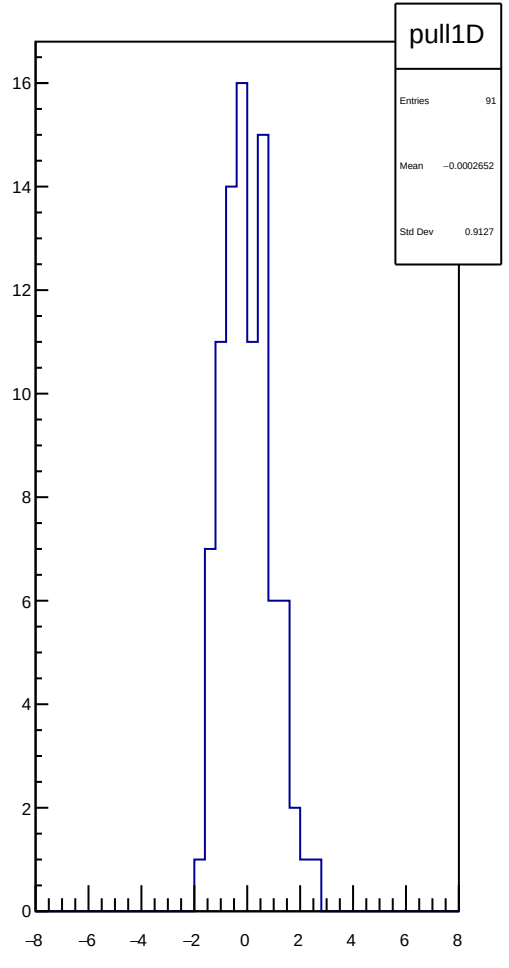

dit_asym_atl_avg_rms vs run
χ² / ndf 126.4 / 90
p0 1647 ± 1.245
1700
1680
1660
1640
1620
1600

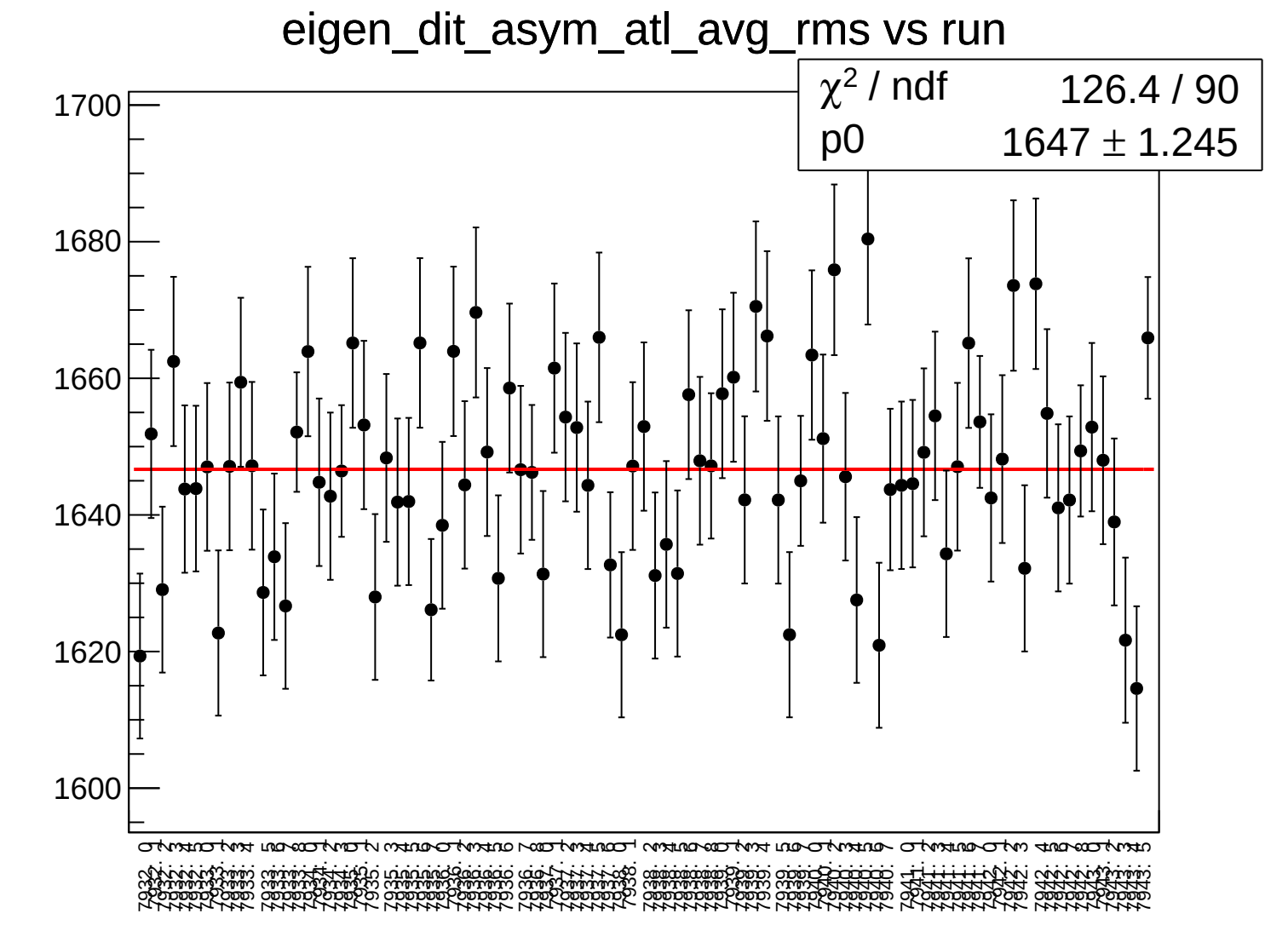

asym_atl_avg_dit_correction_mean vs run
χ² / ndf 119.8 / 90
p0 −2226 ± 5479
×10³
pull
Entries 91
Mean −463.4
Std Dev 0

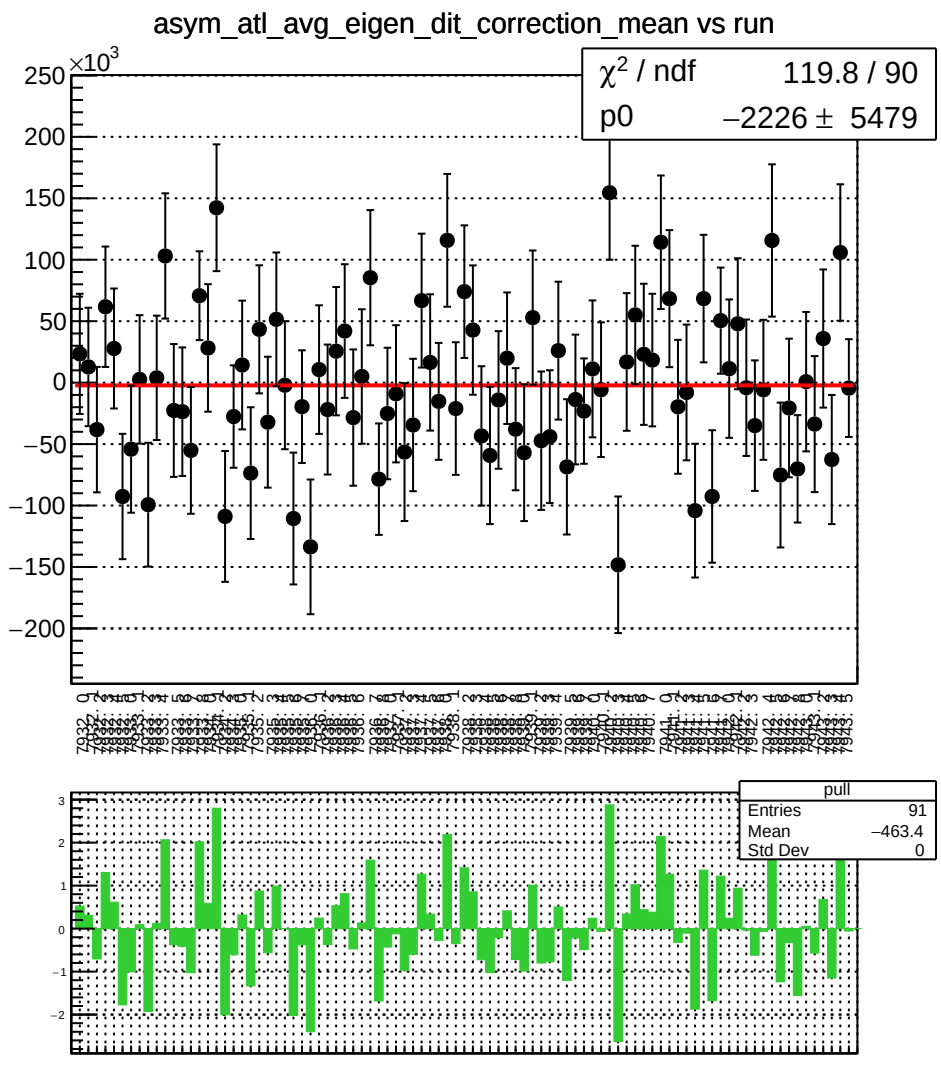

pull1D
Entries 91
Mean −0.002569
Std Dev 1.147

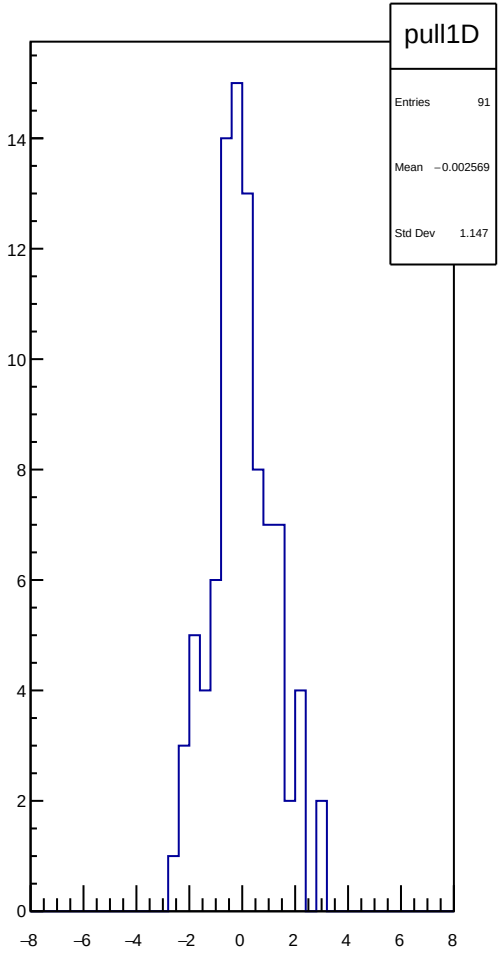

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3031 / 90
p0 5118 ± 3.874
6000
5800
5600
5400
5200
5000
4800
4600
4400

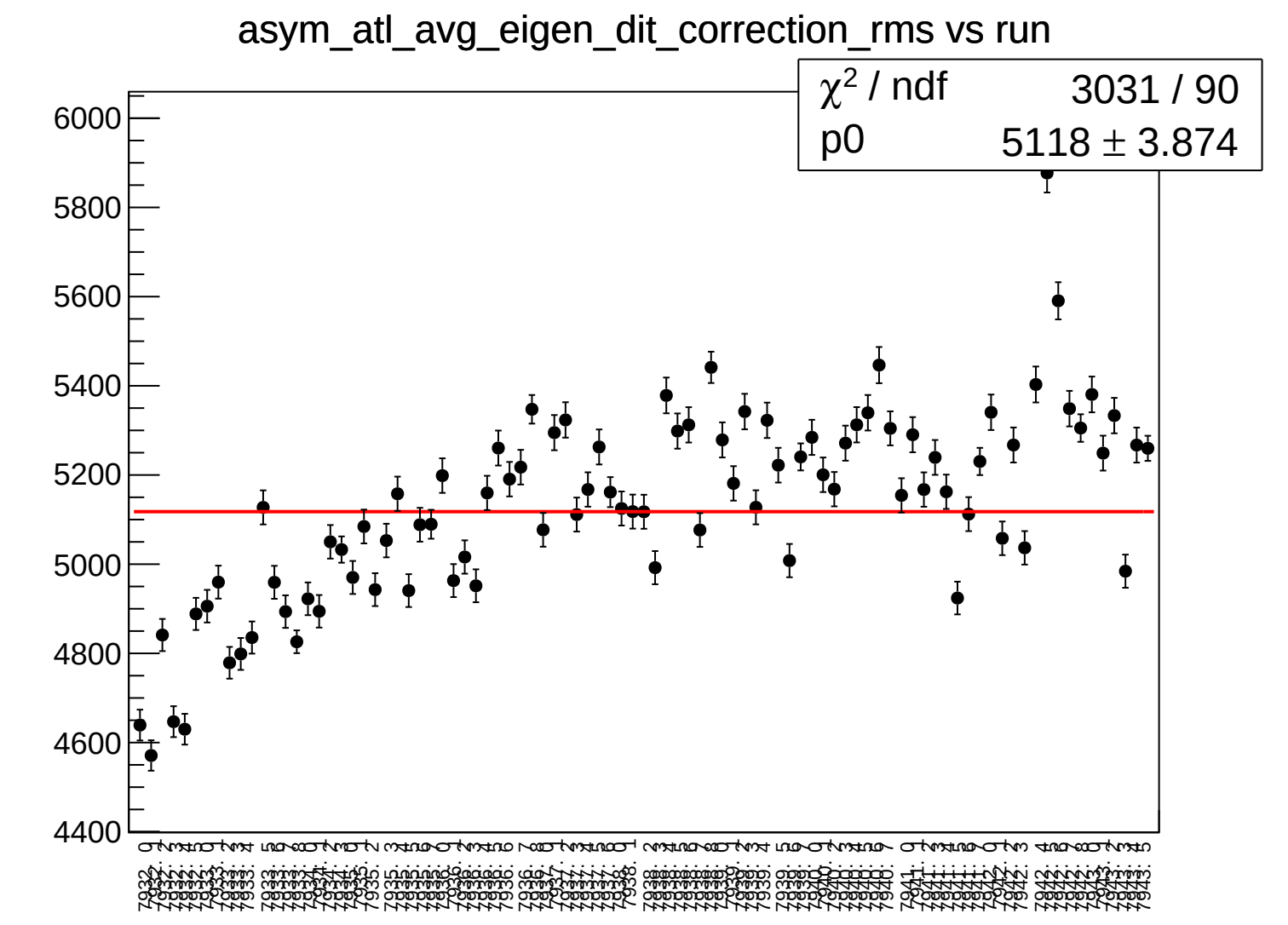

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 75.8 / 90
p0 −1848 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1.845e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

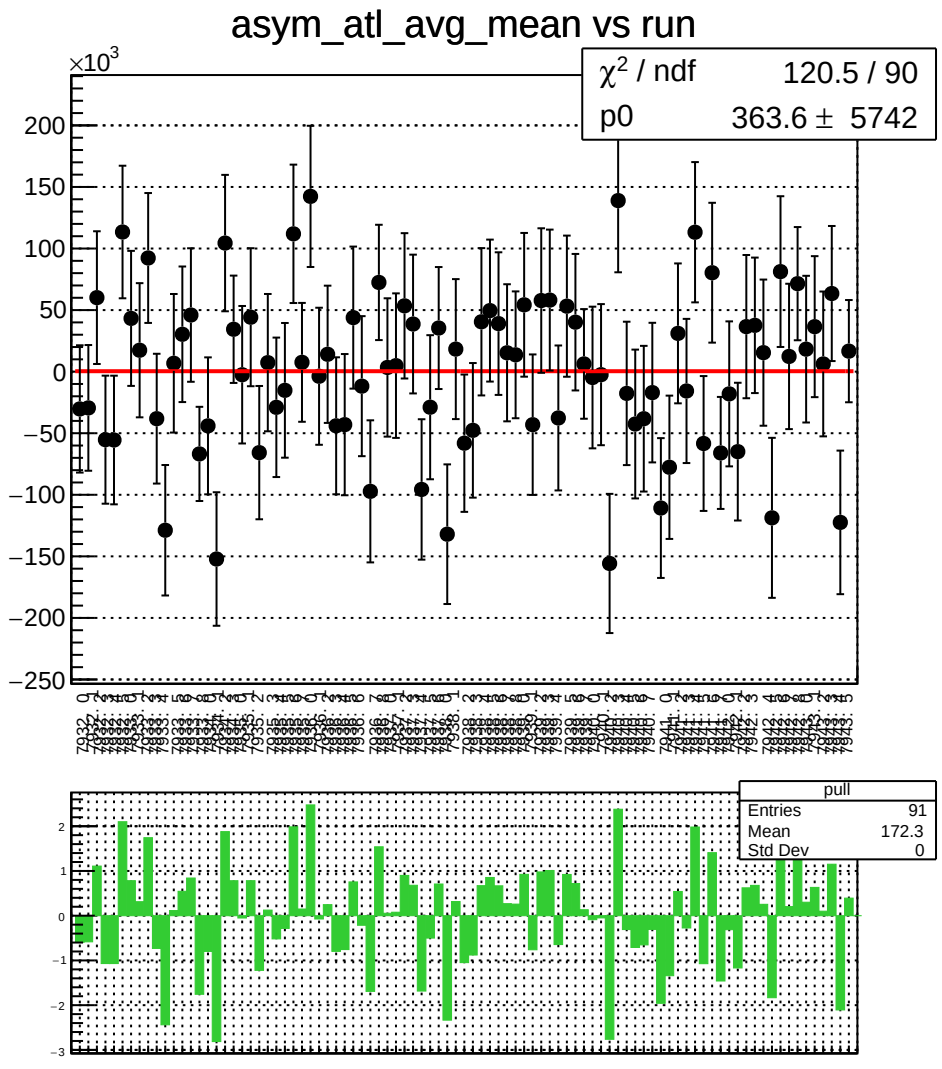

pull1D
Entries 91
Mean −0.0002652
Std Dev 0.9127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

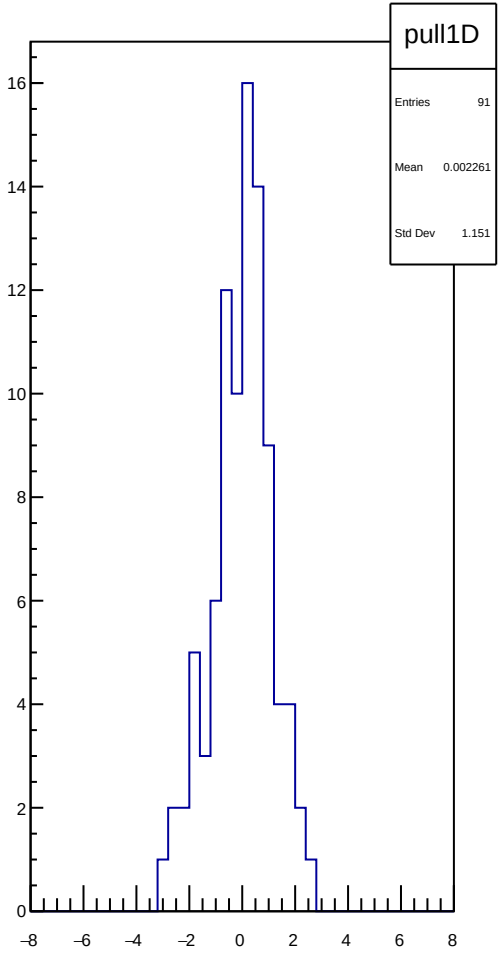

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 126.4 / 90
p0 1647 ± 1.245
1700
1680
1660
1640
1620
1600

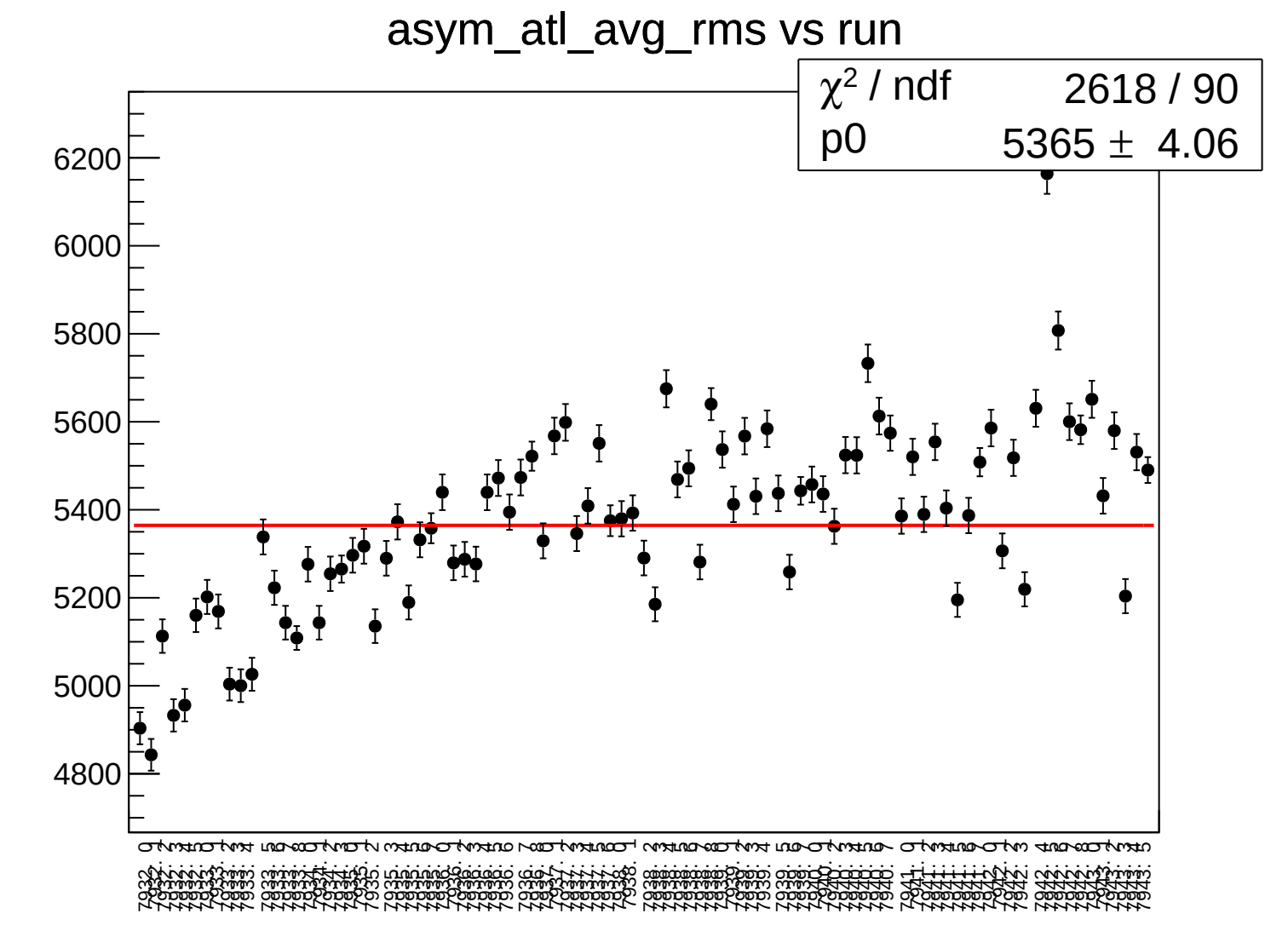

asym_atl_avg_eigen_dit_correction_mean vs run
χ² / ndf 119.8 / 90
p0 −2226 ± 5479
×10³
pull
Entries 91
Mean −463.4
Std Dev 0

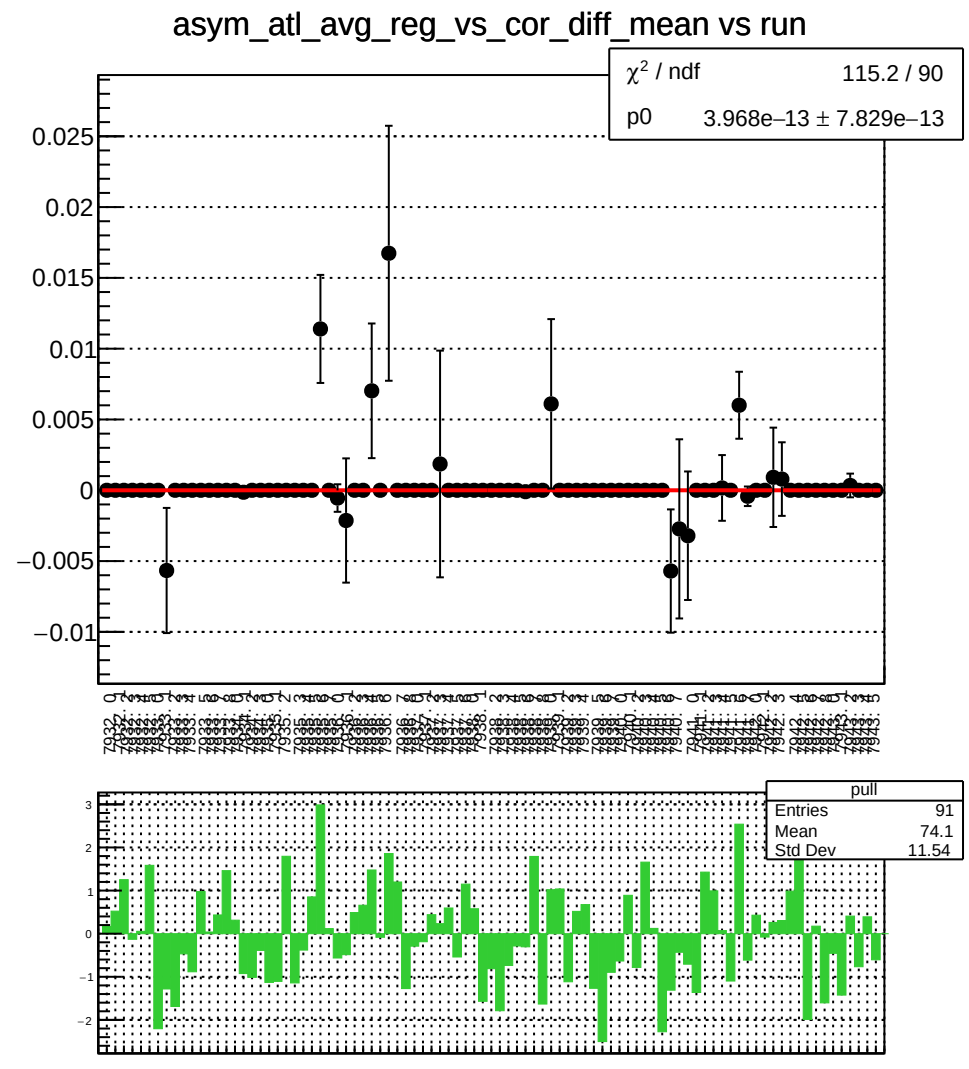

pull1D
Entries 91
Mean −0.002569
Std Dev 1.147

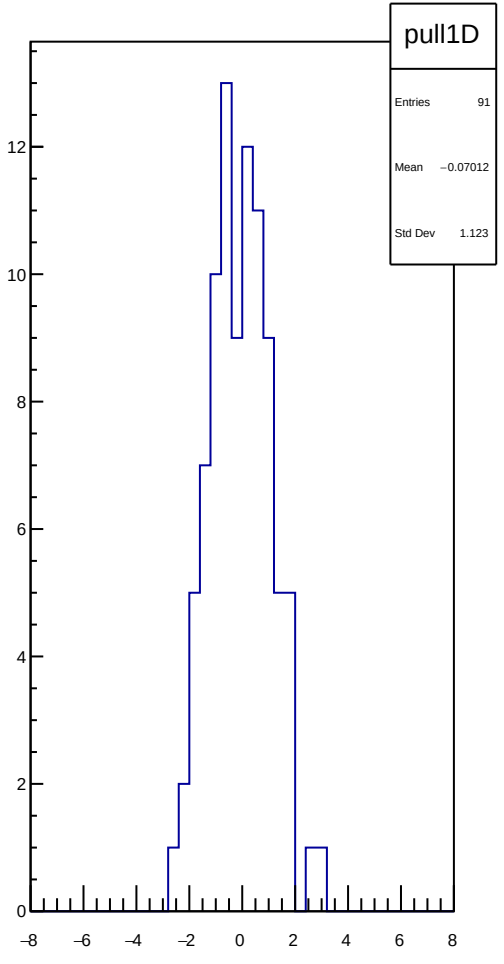

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3031 / 90
p0 5118 ± 3.874
6000
5800
5600
5400
5200
5000
4800
4600
4400

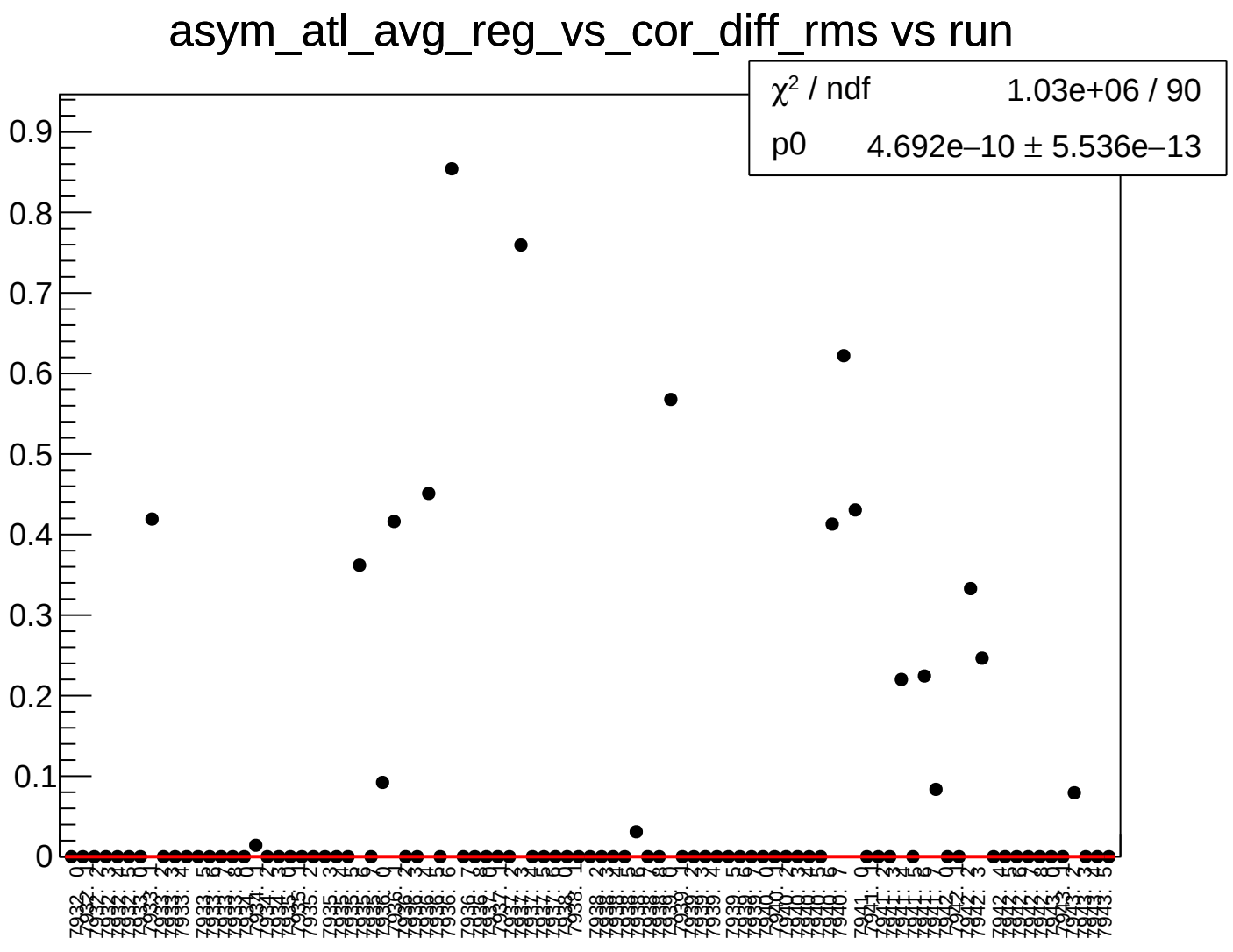

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 120.5 / 90
p0 363.6 ± 5742
pull
Entries 91
Mean 172.3
Std Dev 0

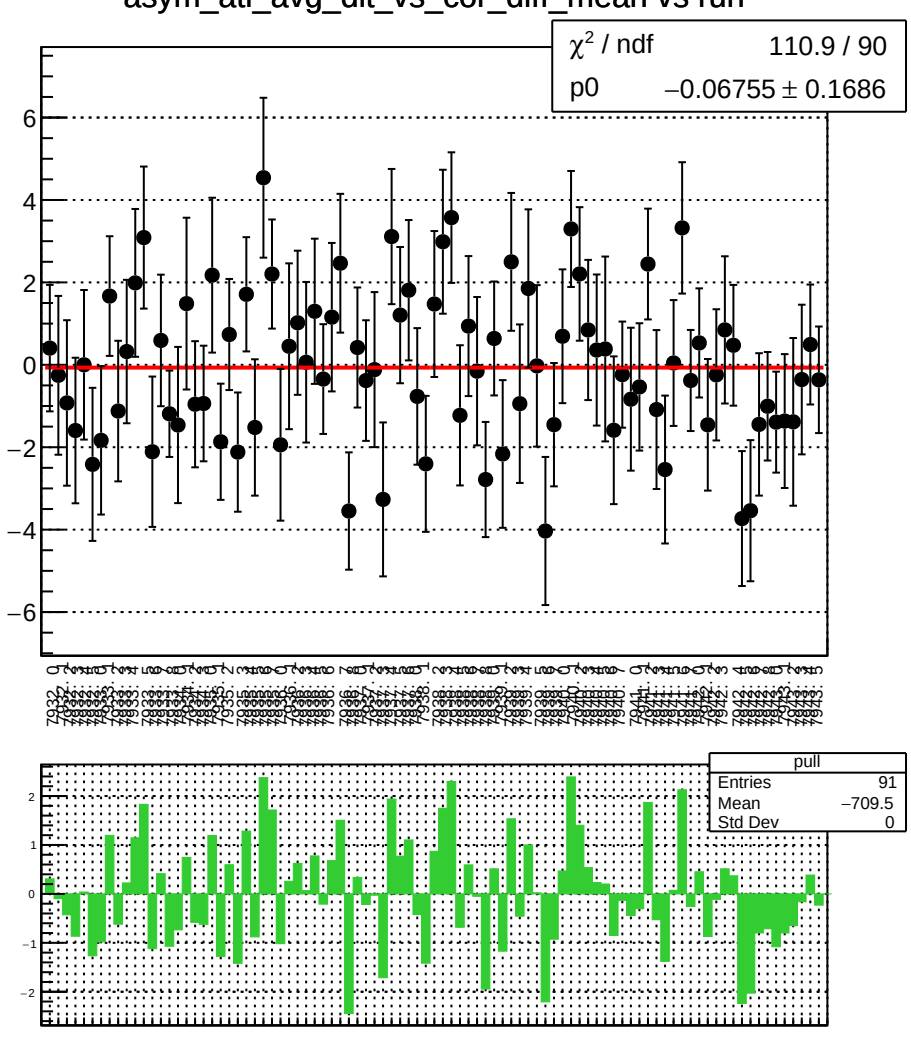

pull1D
Entries 91
Mean 0.002261
Std Dev 1.151

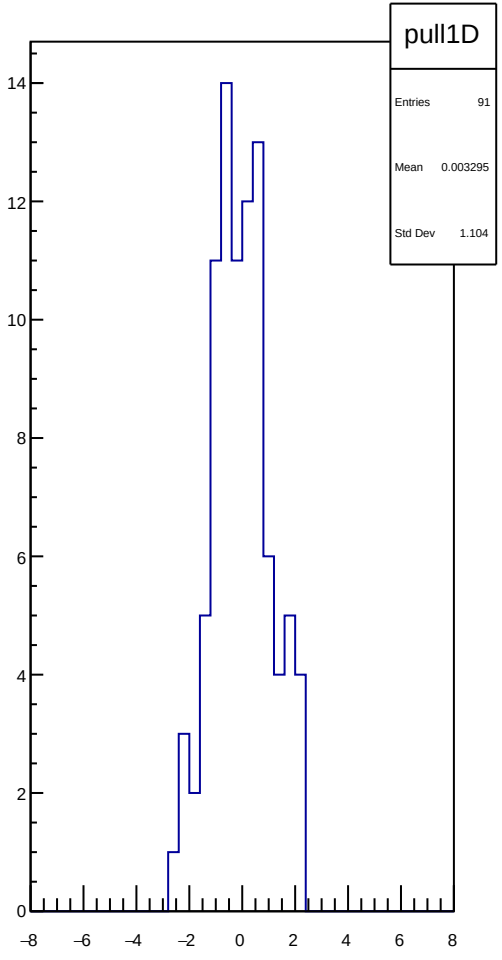

asym_atl_avg_rms vs run
χ² / ndf 2618 / 90
p0 5365 ± 4.06
6200
6000
5800
5600
5400
5200
5000
4800

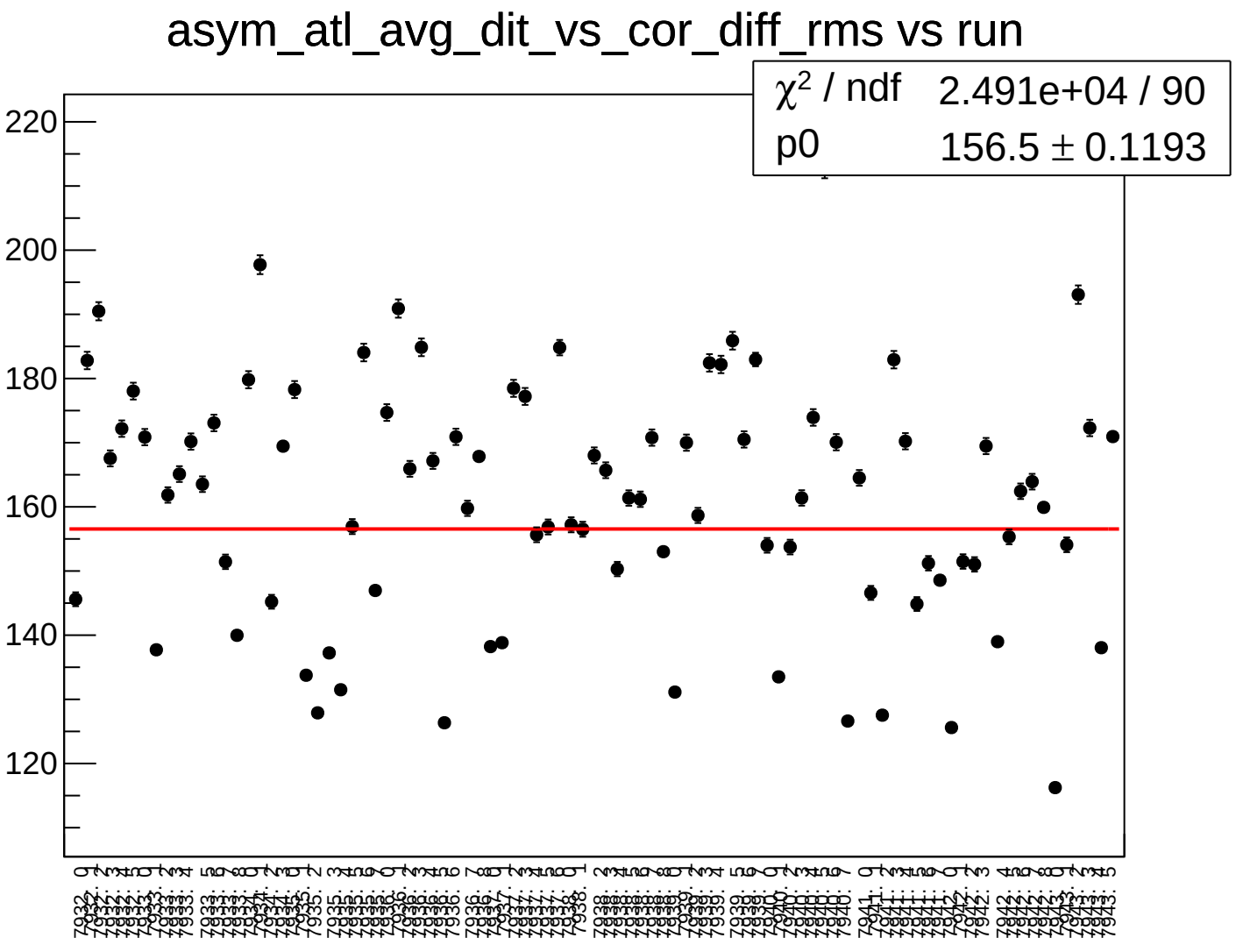

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 90
p0 3.968e−13 ± 7.829e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 74.1
Std Dev 11.54
3
2
1
0
−1
−2

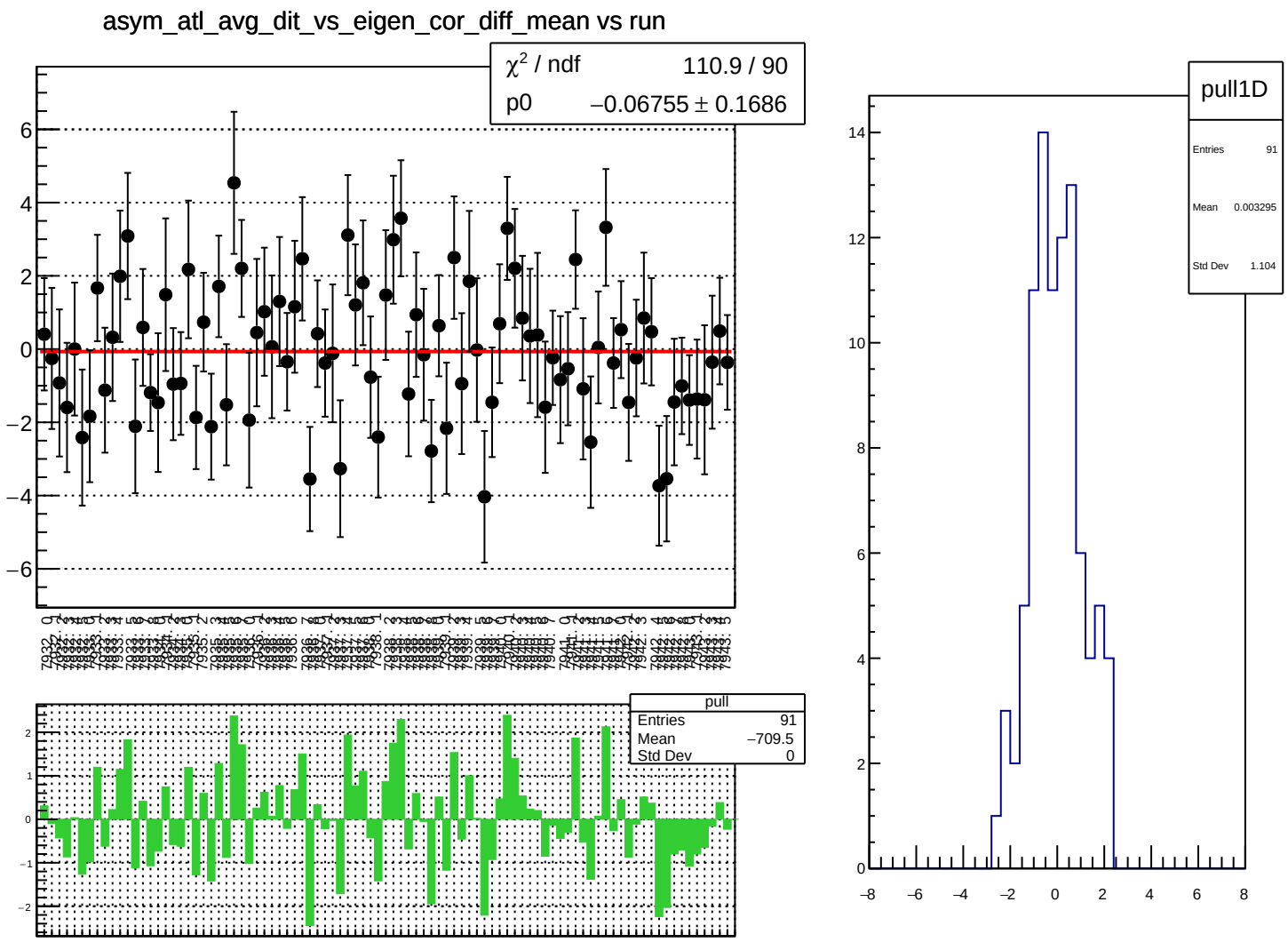

pull1D
Entries 91
Mean −0.07012
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

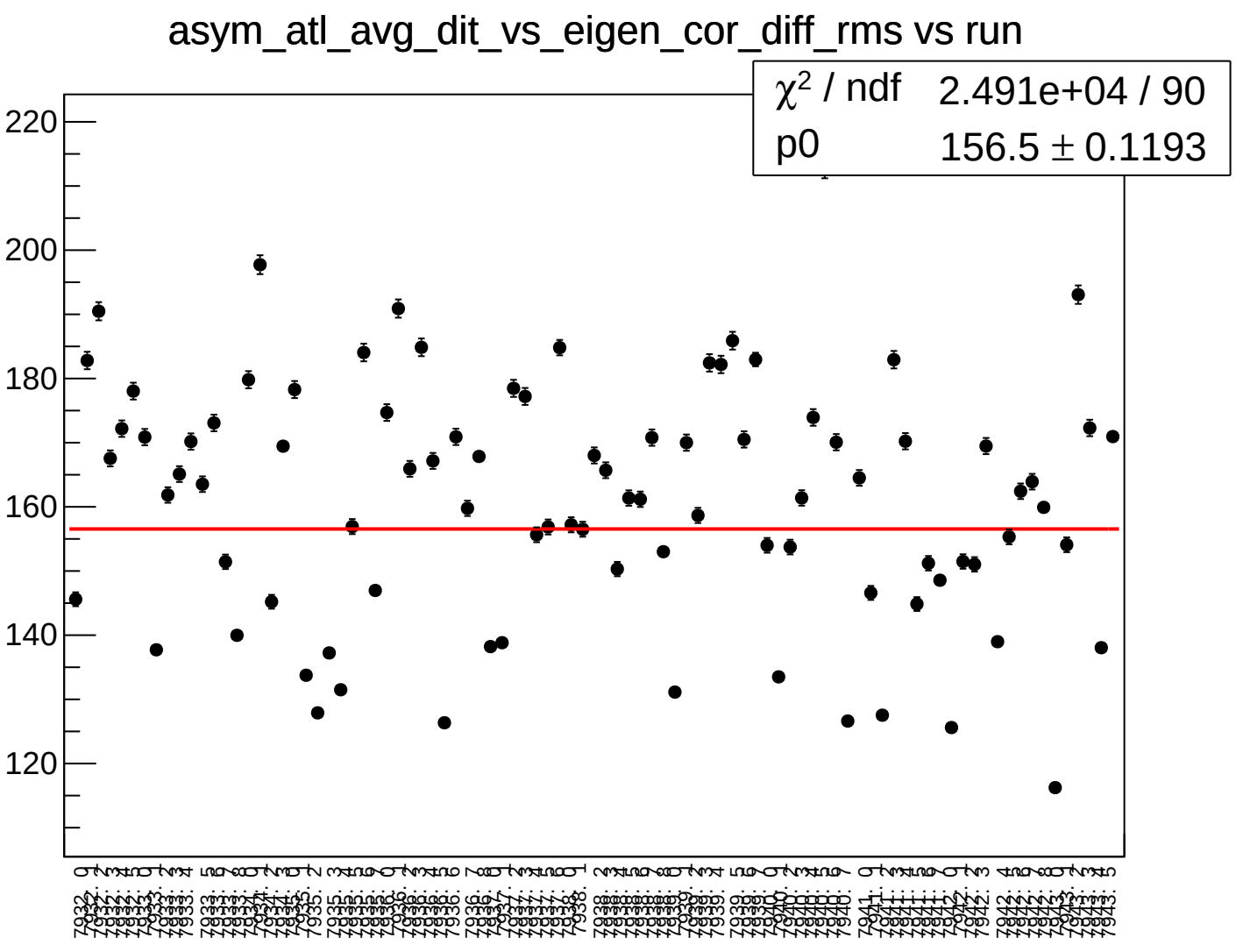

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 90
p0 4.692e−10 ± 5.536e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

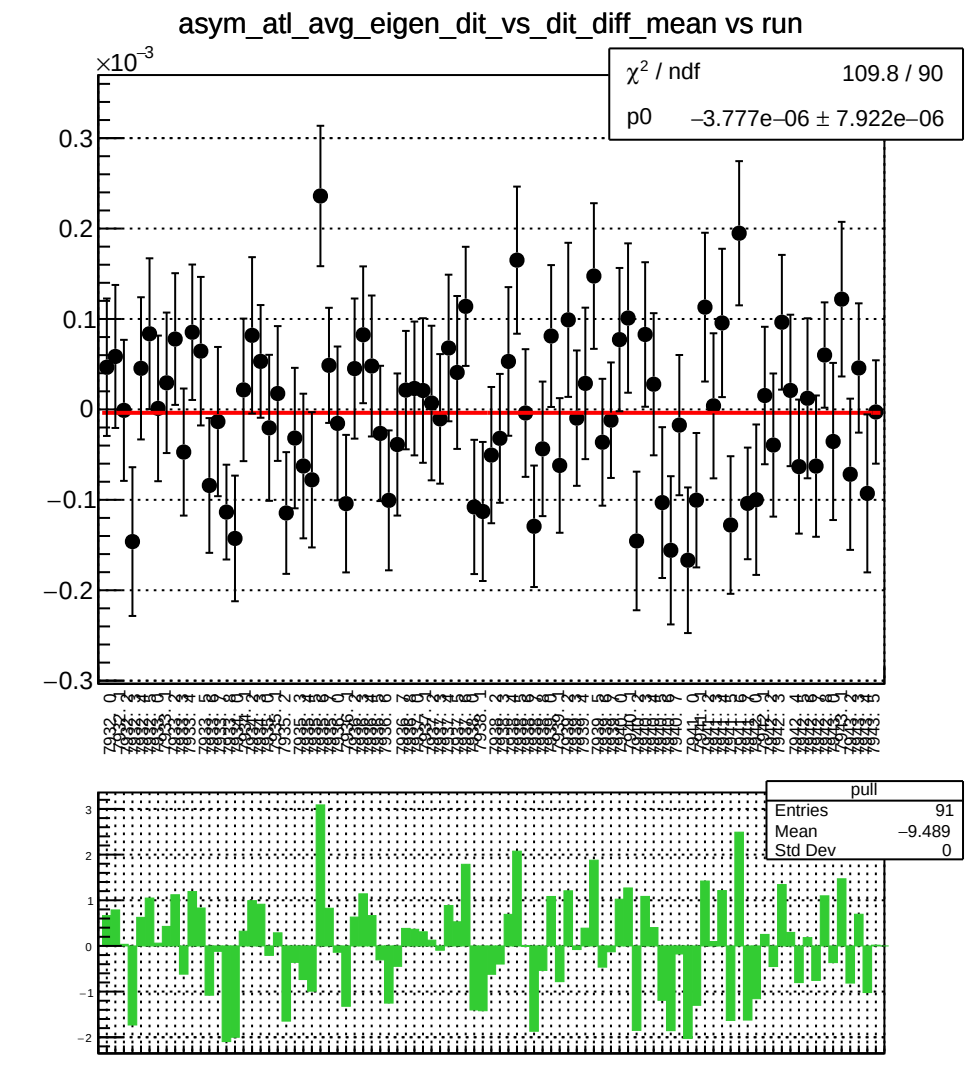

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 90
p0 −0.06755 ± 0.1686
pull
Entries 91
Mean −709.5
Std Dev 0

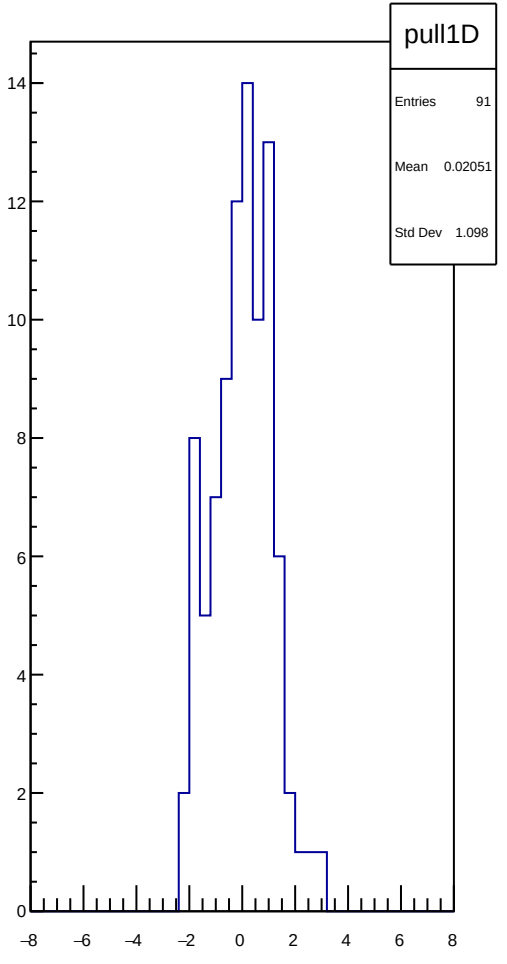

pull1D
Entries 91
Mean 0.003295
Std Dev 1.104

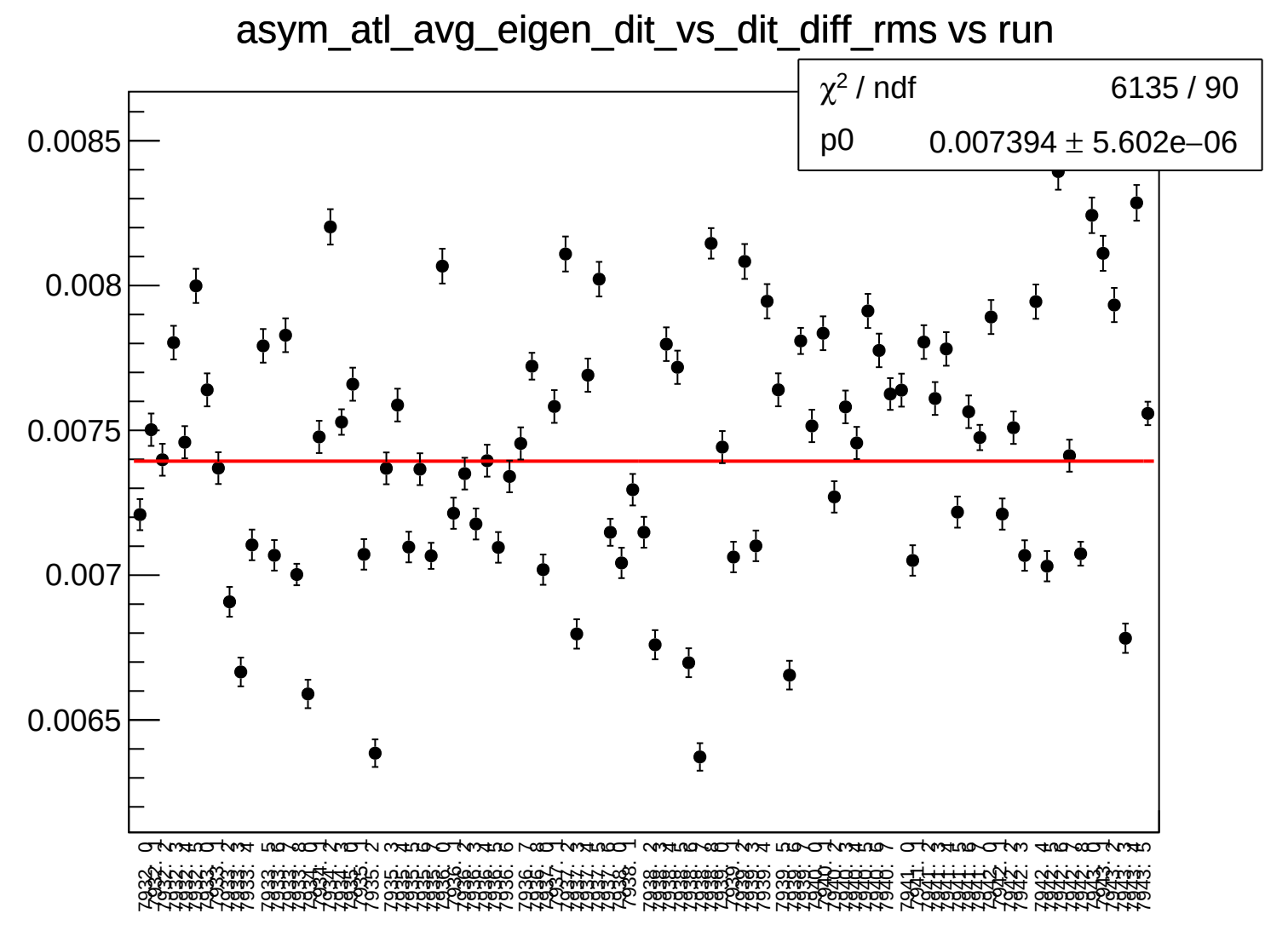

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.491e+04 / 90
p0 156.5 ± 0.1193
220
200
180
160
140
120

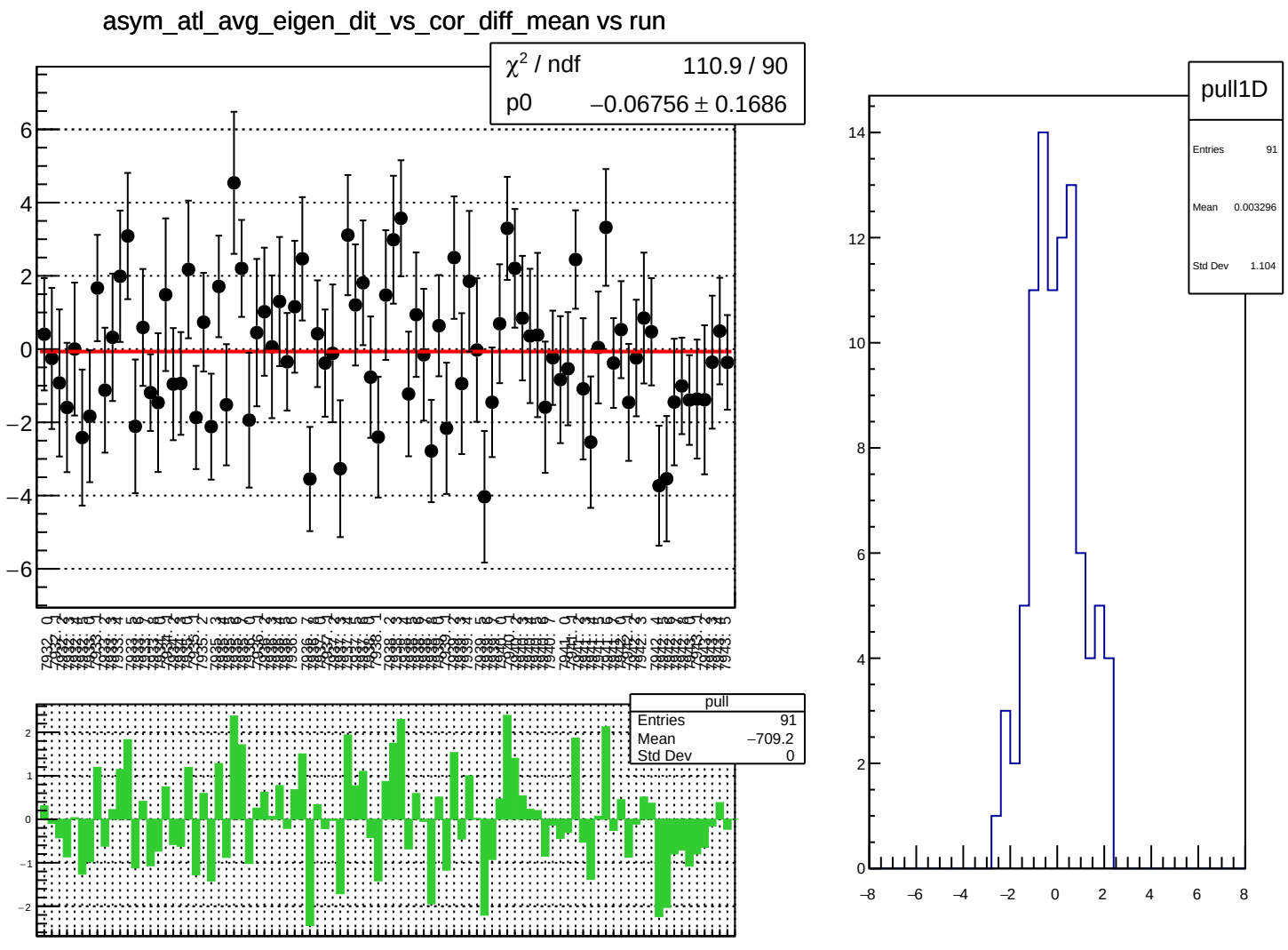

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 90
p0 −0.06755 ± 0.1686
pull
Entries 91
Mean −709.5
Std Dev 0
pull1D
Entries 91
Mean 0.003295
Std Dev 1.104

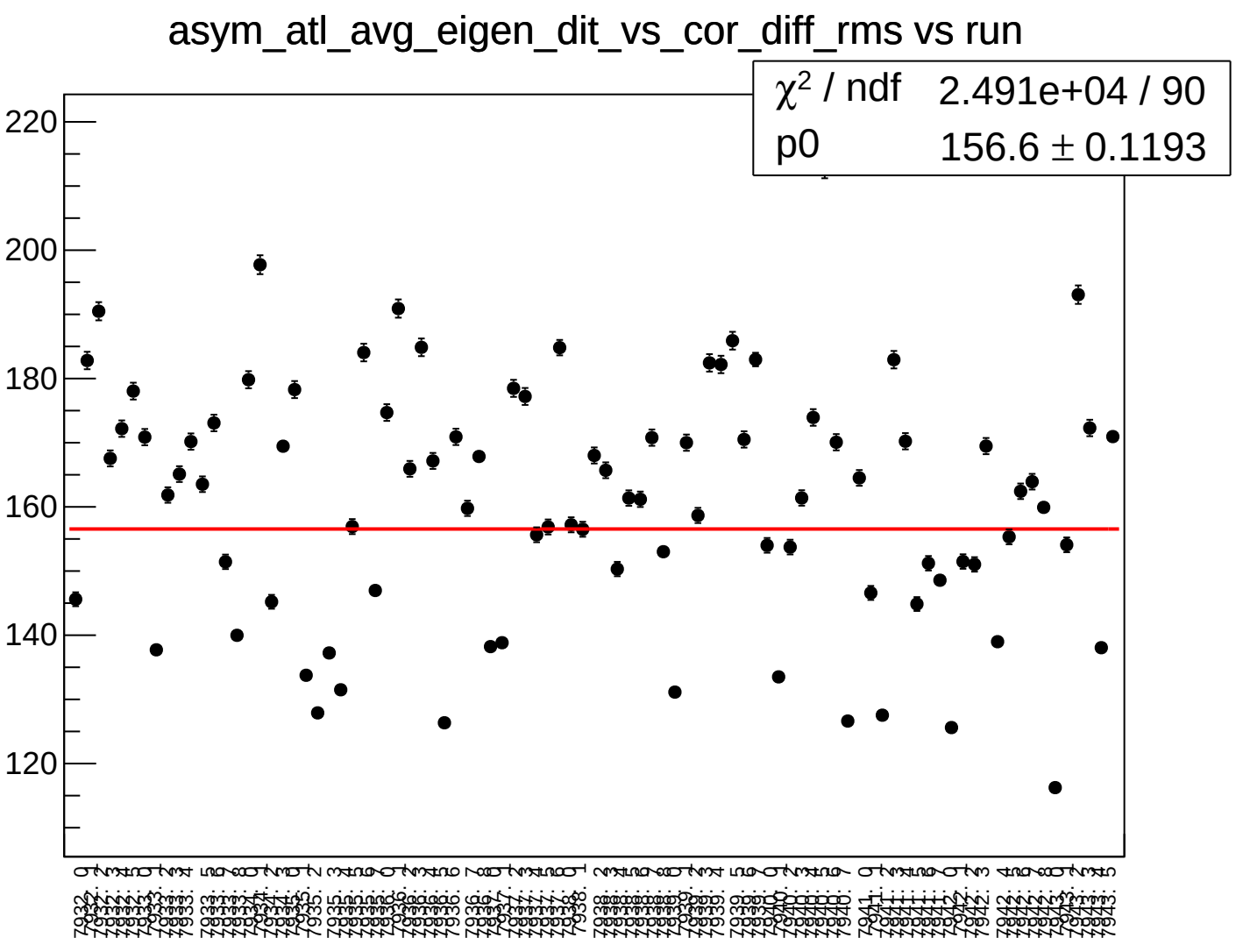

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.491e+04 / 90
p0 156.5 ± 0.1193
220
200
180
160
140
120

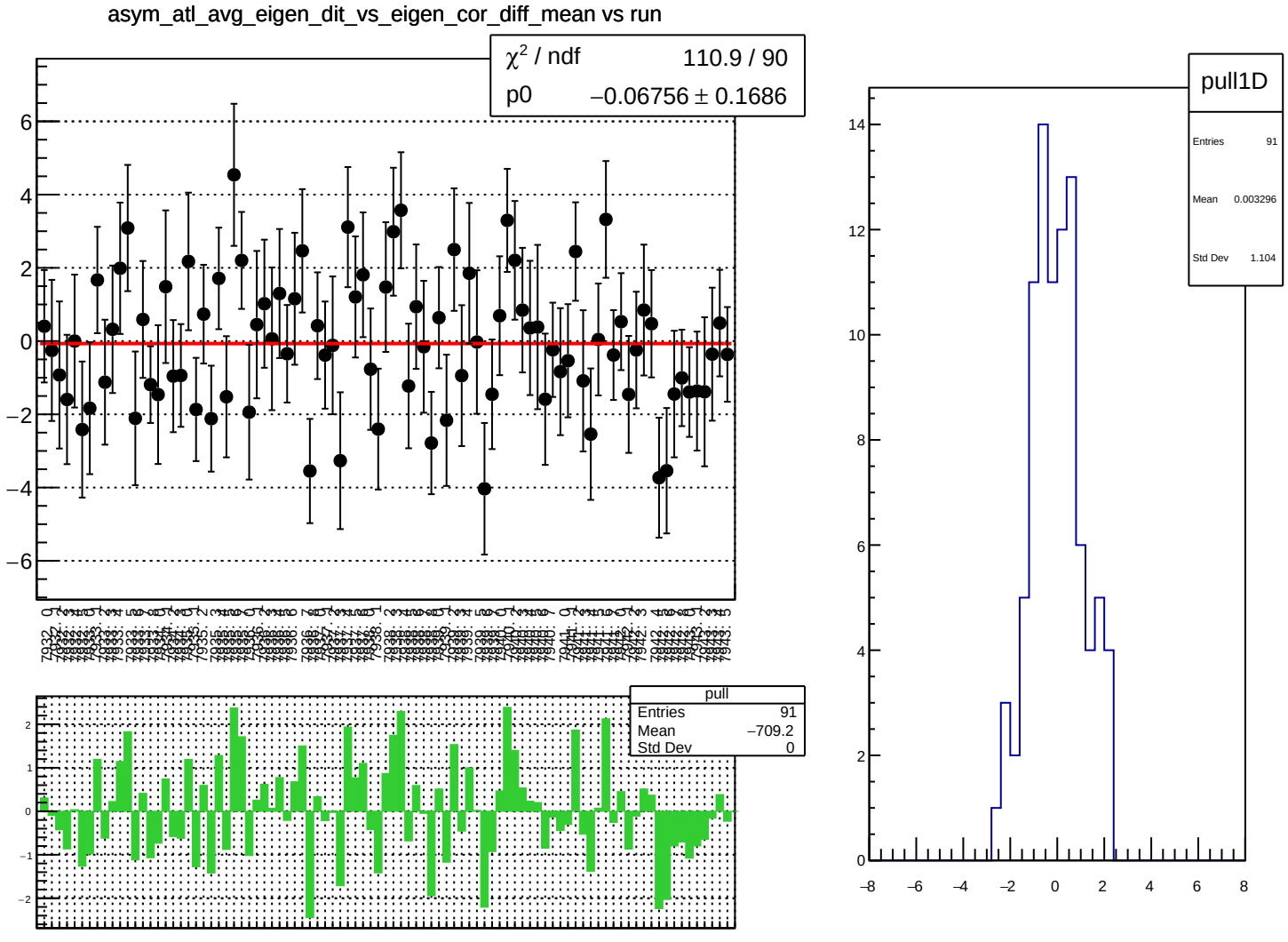

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.8 / 90
p0 −3.777e−06 ± 7.922e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 91
Mean −9.489
Std Dev 0
3
2
1
0
−1
−2

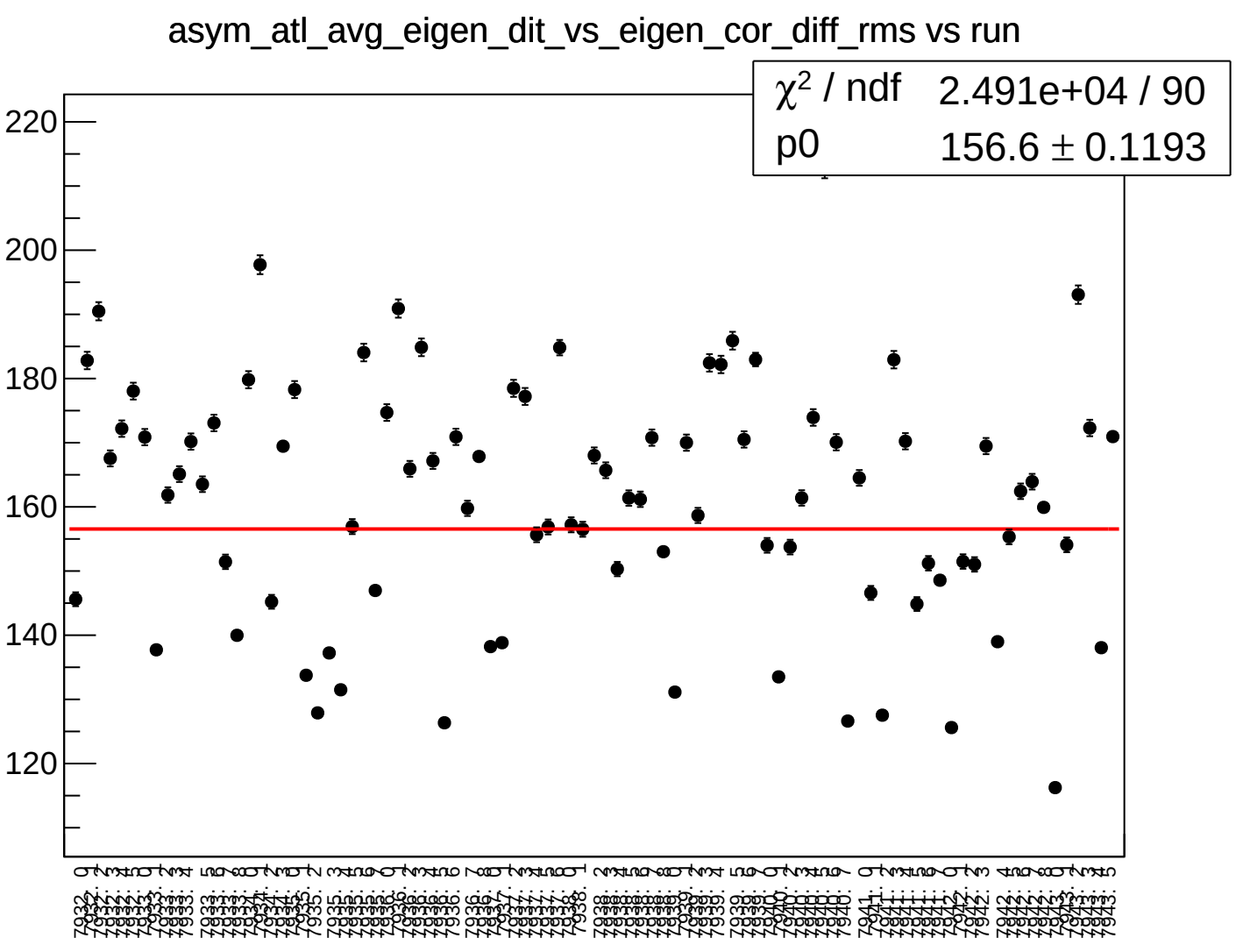

pull1D
Entries 91
Mean 0.02051
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

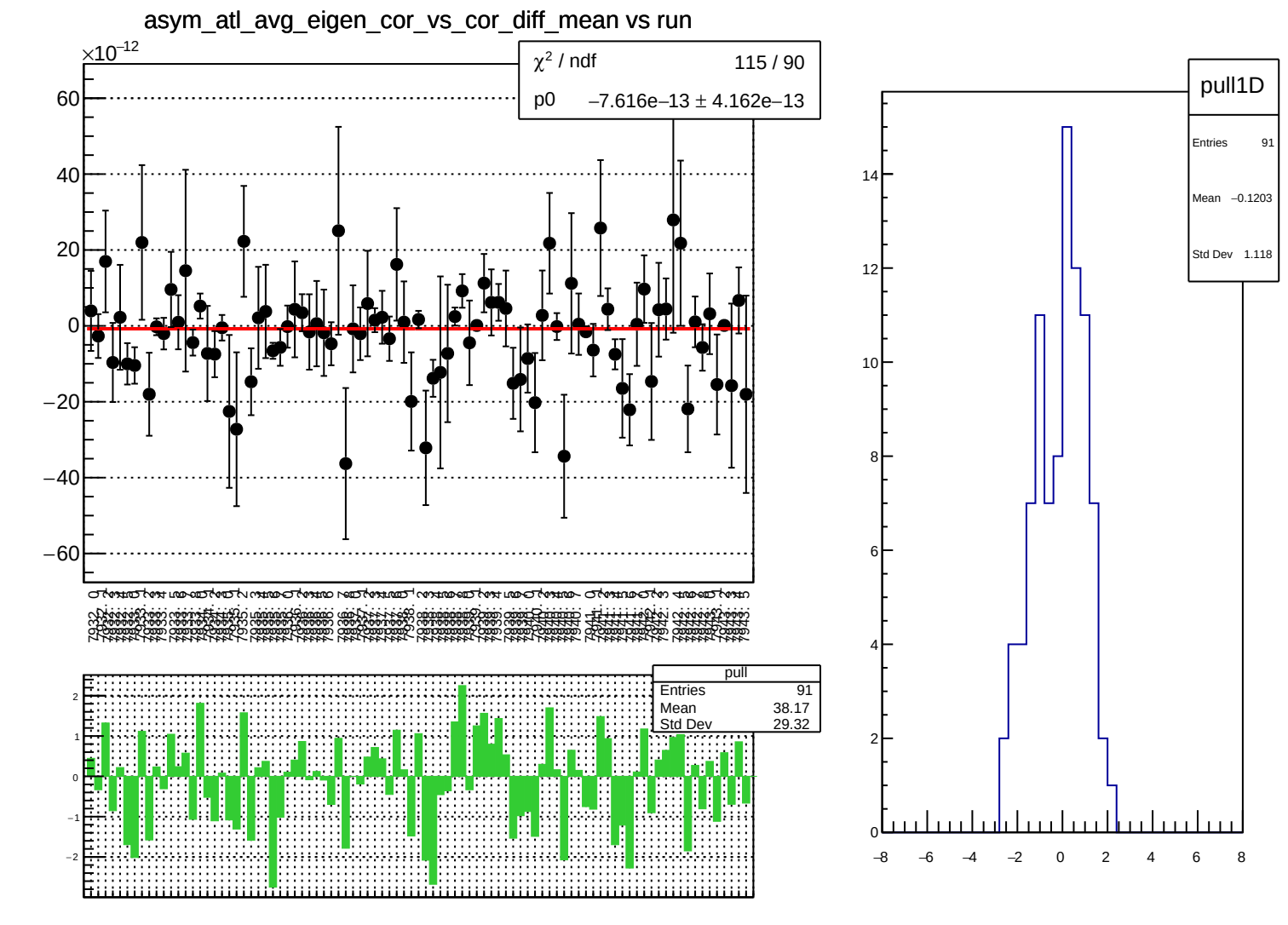

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6135 / 90
p0 0.007394 ± 5.602e−06
0.0085
0.008
0.0075
0.007
0.0065

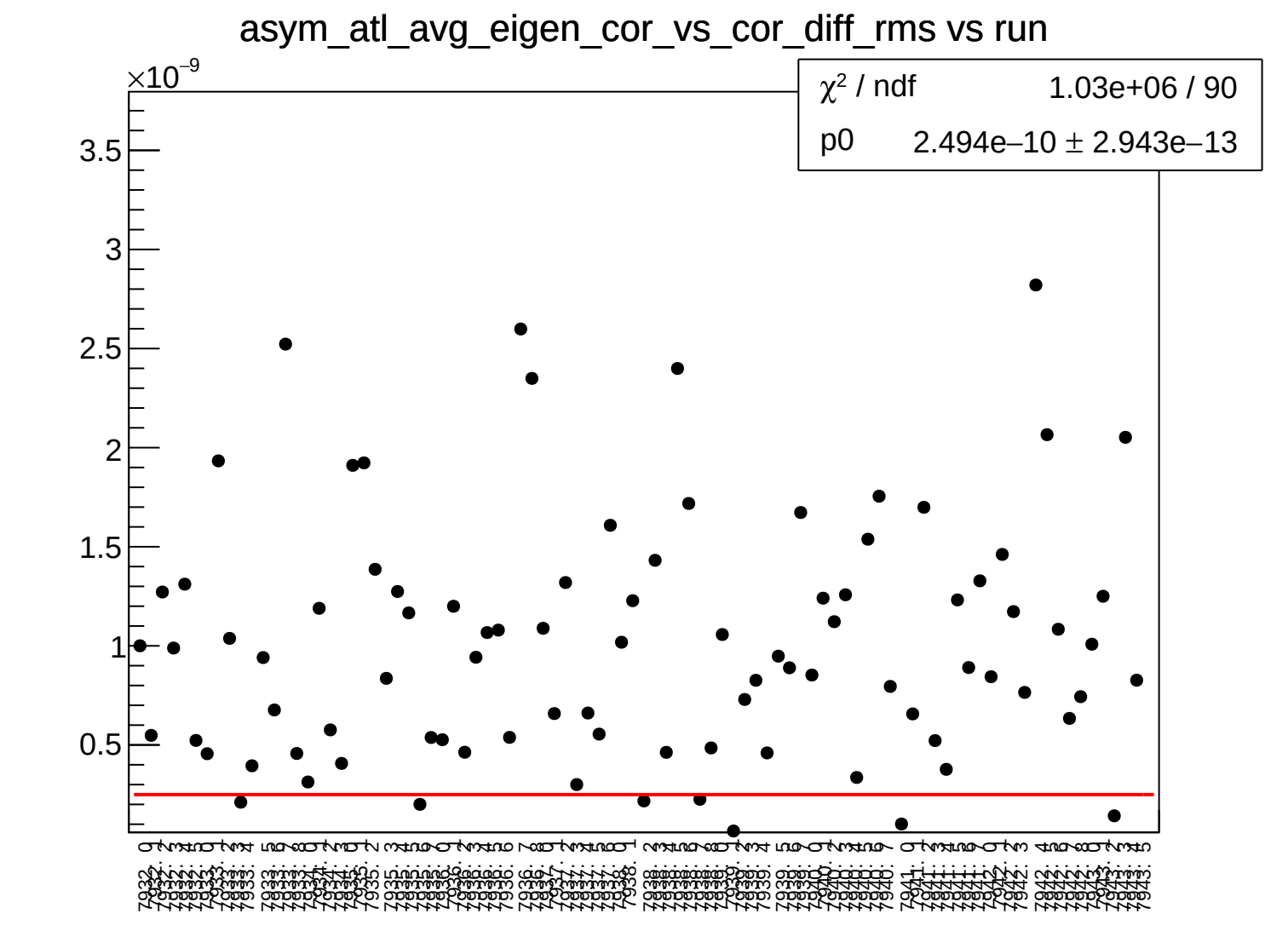

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 90
p0 −0.06756 ± 0.1686
pull
Entries 91
Mean −709.2
Std Dev 0
pull1D
Entries 91
Mean 0.003296
Std Dev 1.104

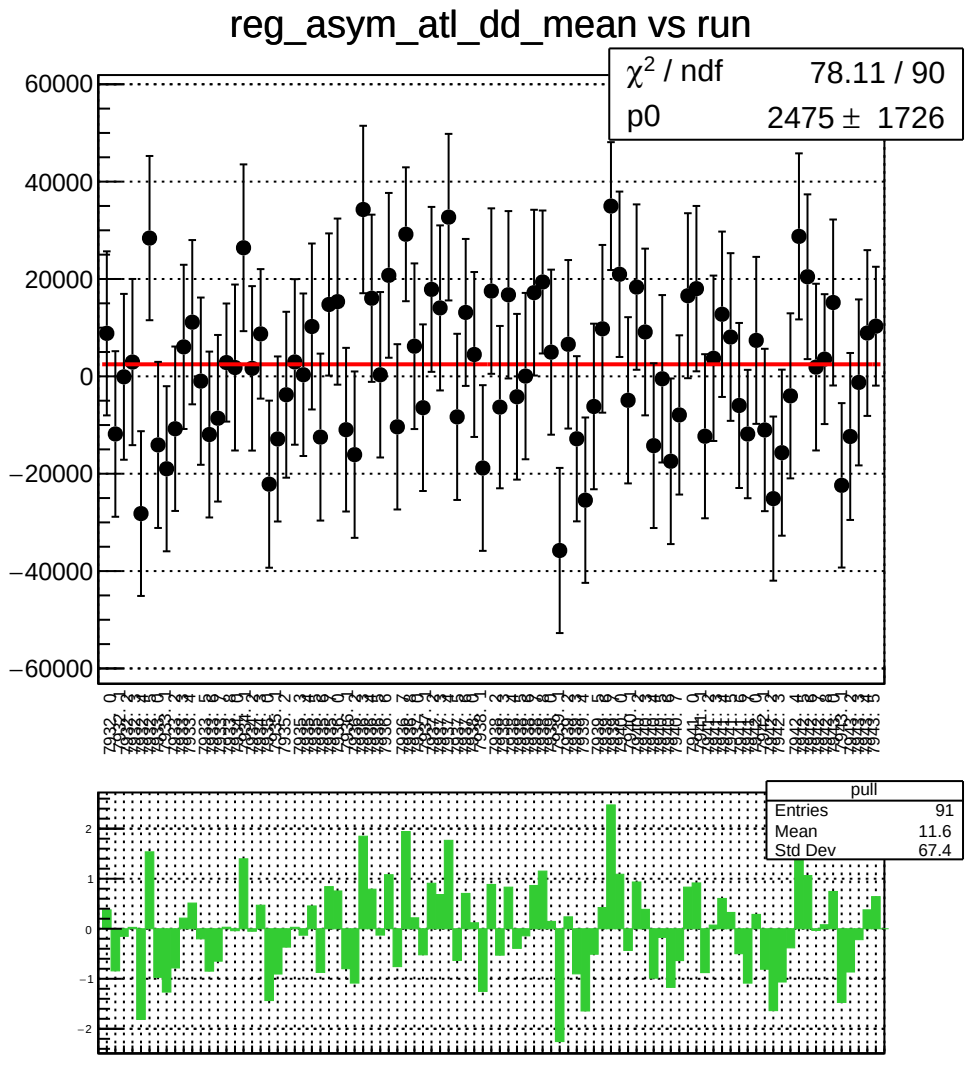

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.491e+04 / 90
p0 156.6 ± 0.1193
220
200
180
160
140
120

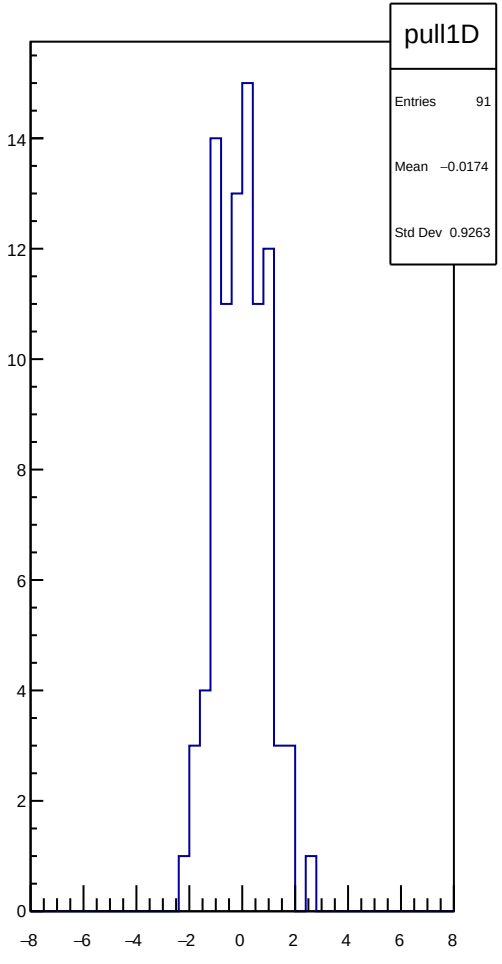

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 90
p0 −0.06756 ± 0.1686
pull
Entries 91
Mean −709.2
Std Dev 0
pull1D
Entries 91
Mean 0.003296
Std Dev 1.104

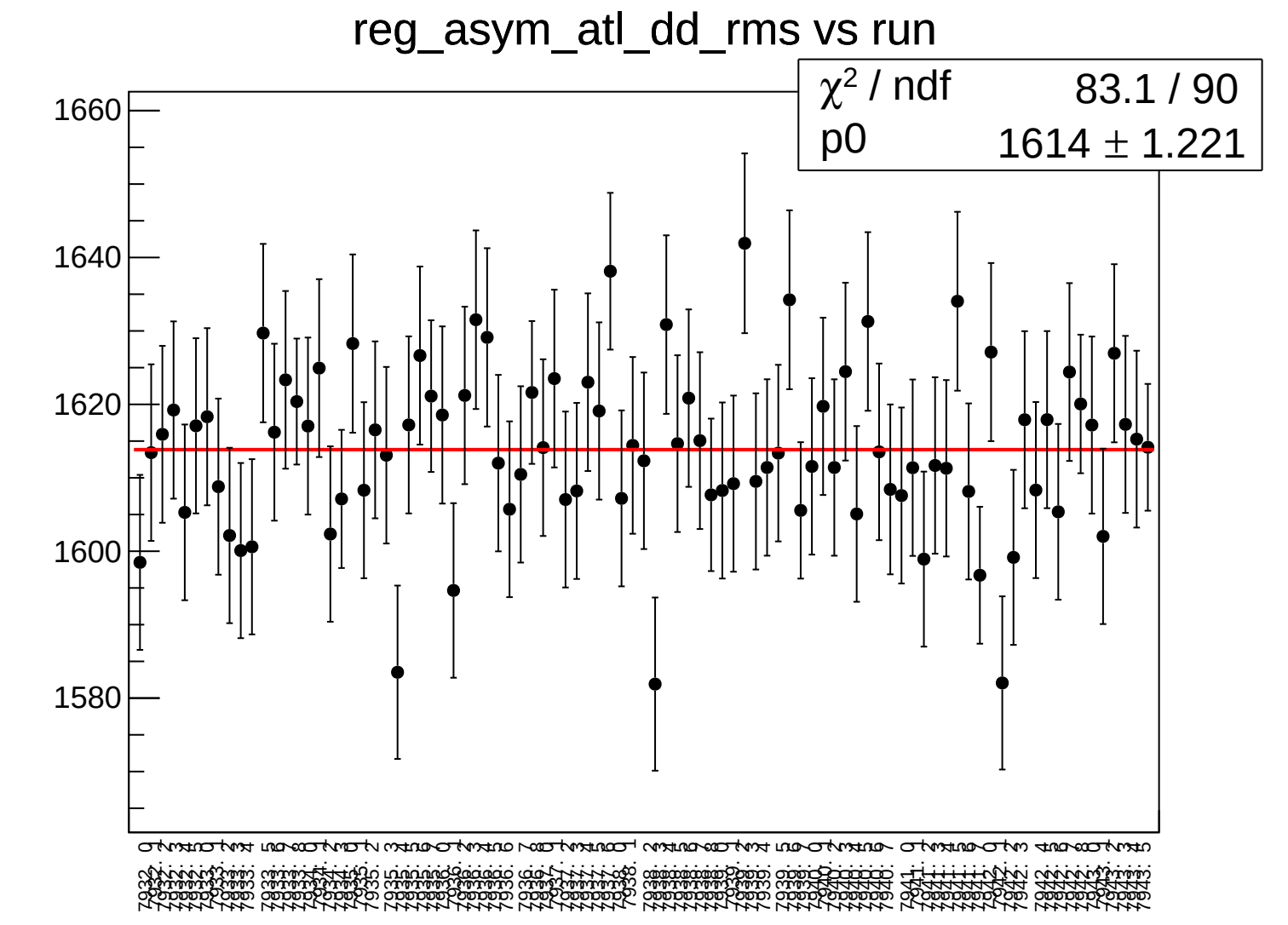

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.491e+04 / 90
p0 156.6 ± 0.1193
220
200
180
160
140
120

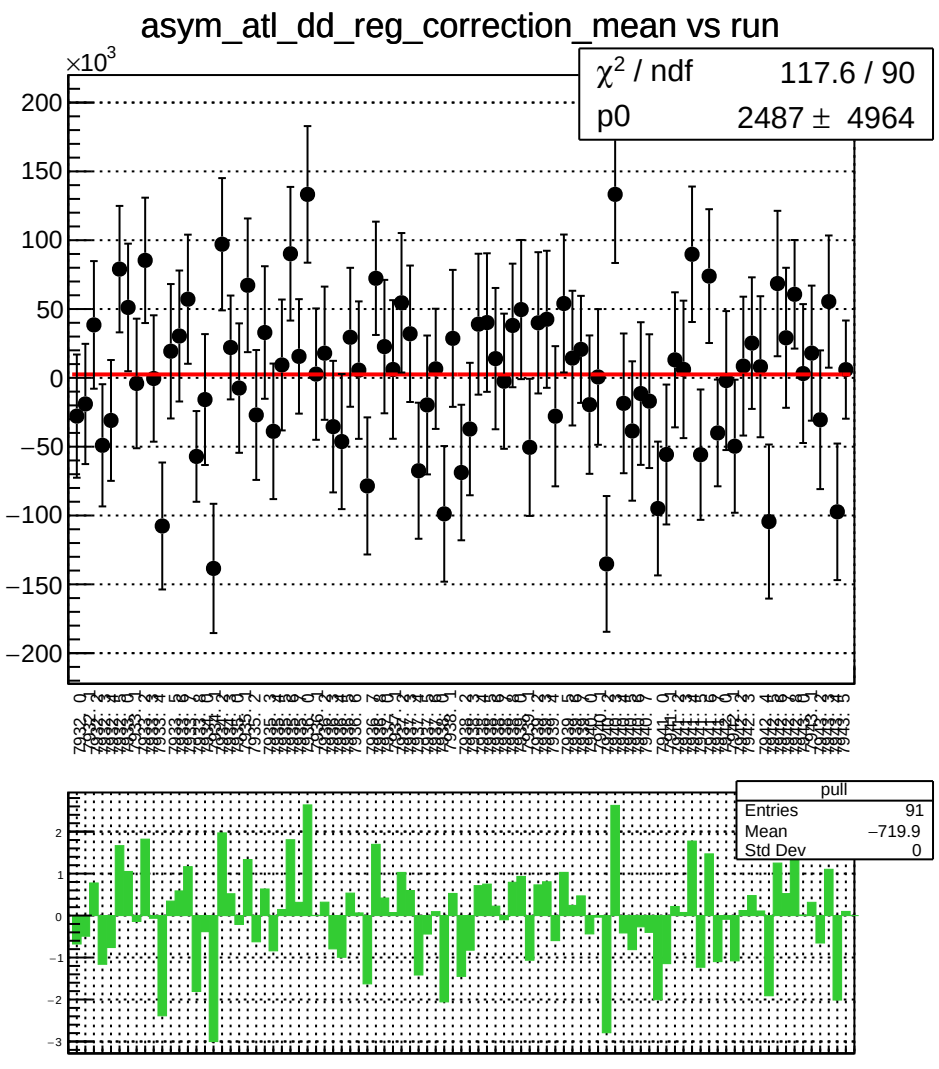

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115 / 90
p0 −7.616e−13 ± 4.162e−13
pull
Entries 91
Mean 38.17
Std Dev 29.32
pull1D
Entries 91
Mean −0.1203
Std Dev 1.118

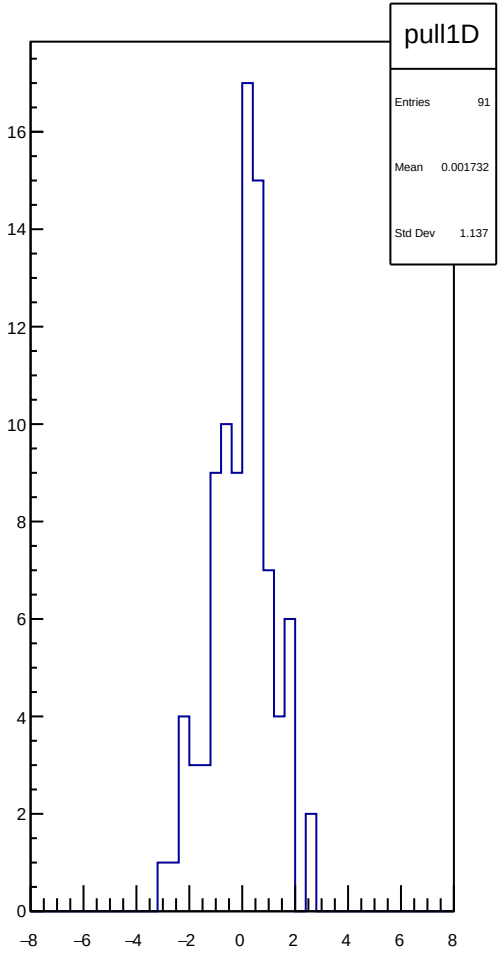

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.03e+06 / 90
p0 2.494e−10 ± 2.943e−13
3.5
3
2.5
2
1.5
1
0.5

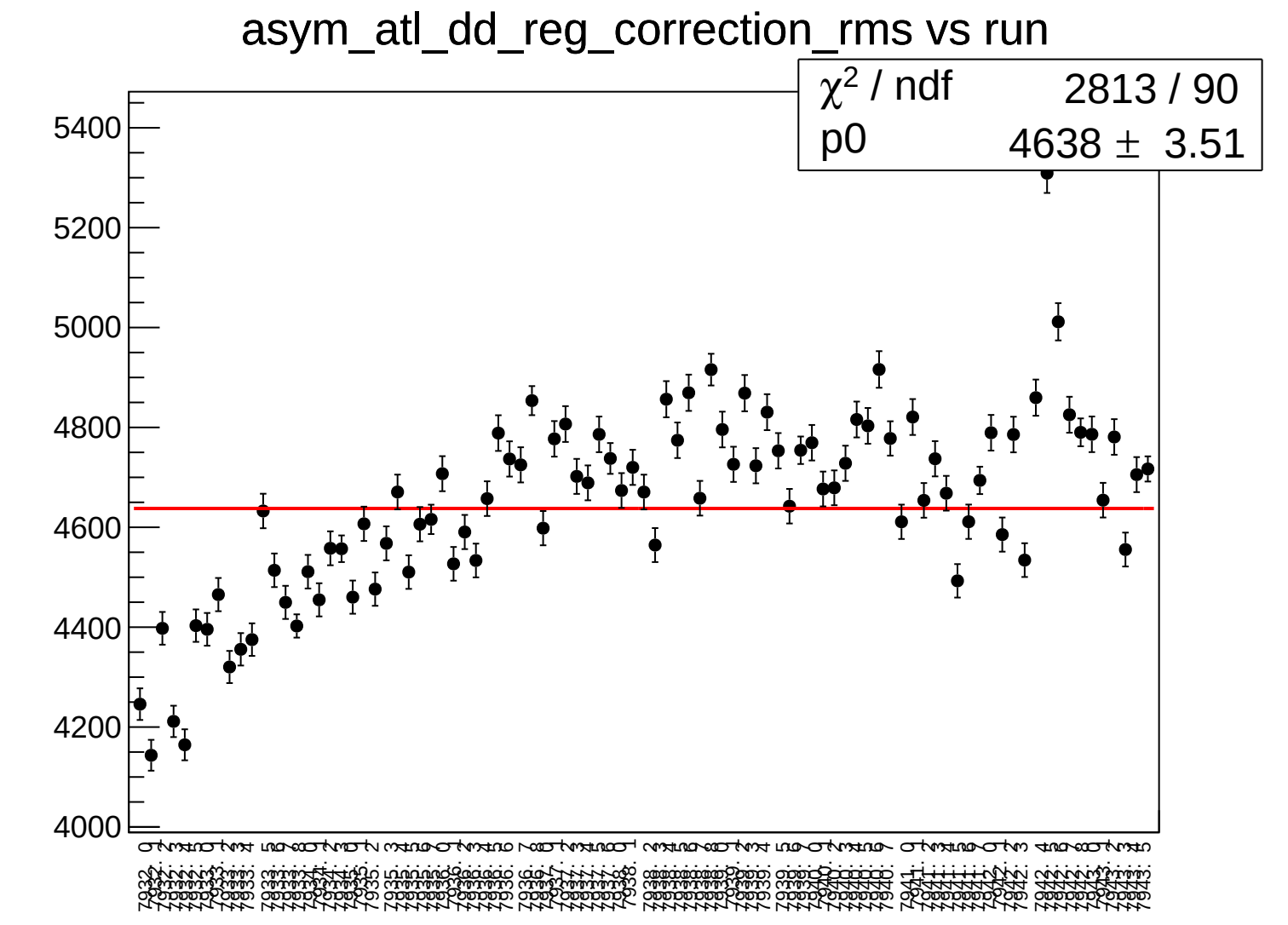

reg_asym_atl_dd_mean vs run
χ² / ndf 78.11 / 90
p0 2475 ± 1726
pull
Entries 91
Mean 11.6
Std Dev 67.4

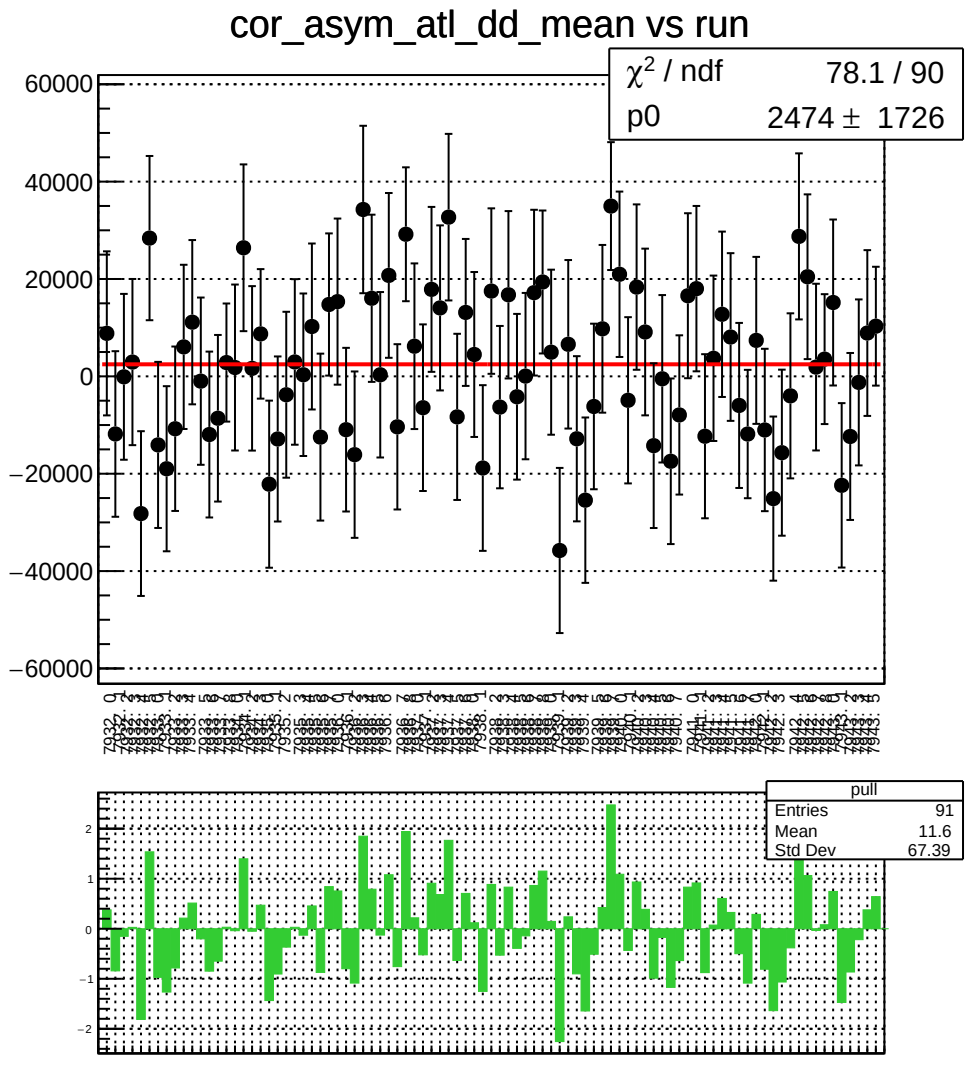

pull1D
Entries 91
Mean −0.0174
Std Dev 0.9263

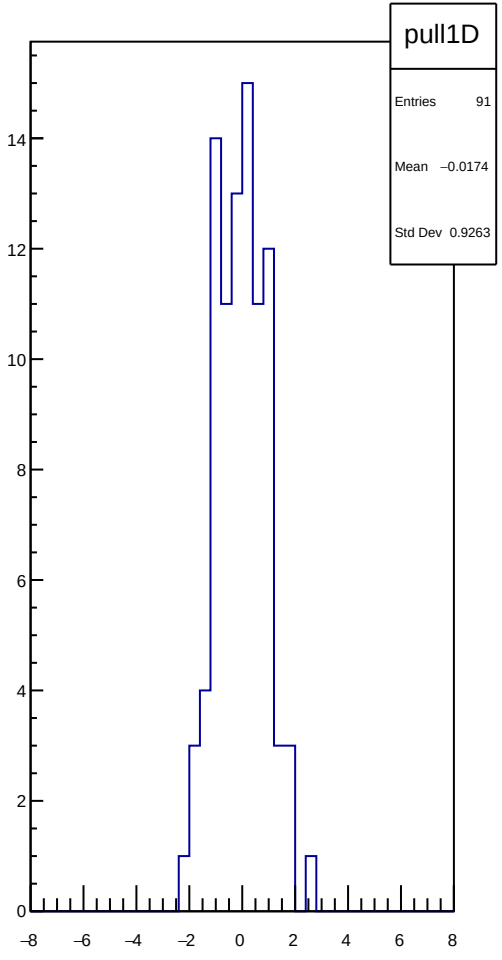

reg_asym_atl_dd_rms vs run
χ^2 / ndf 83.1 / 90
p0 1614 ± 1.221
1660
1640
1620
1600
1580

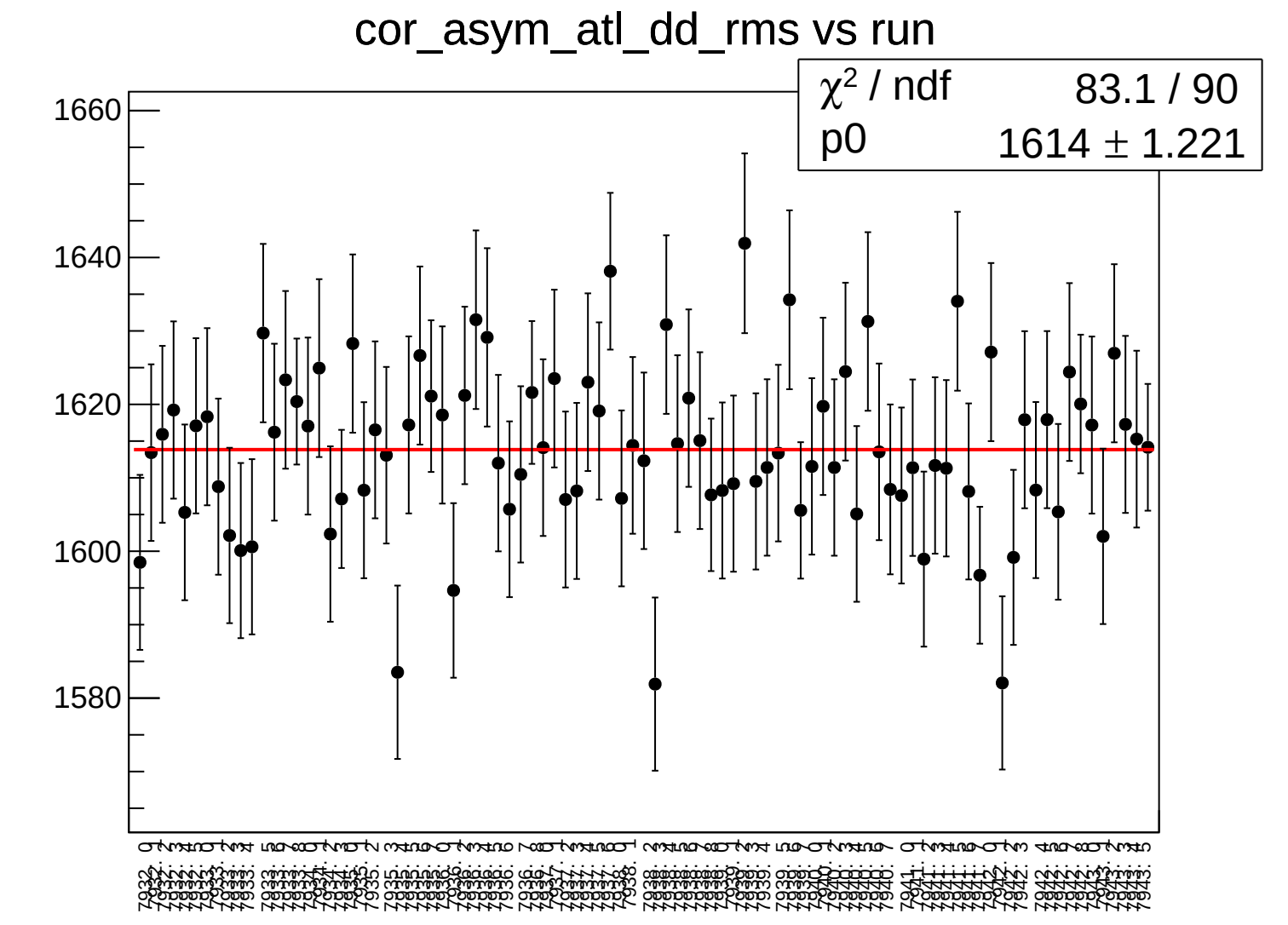

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 117.6 / 90
p0 2487 ± 4964
pull
Entries 91
Mean −719.9
Std Dev 0

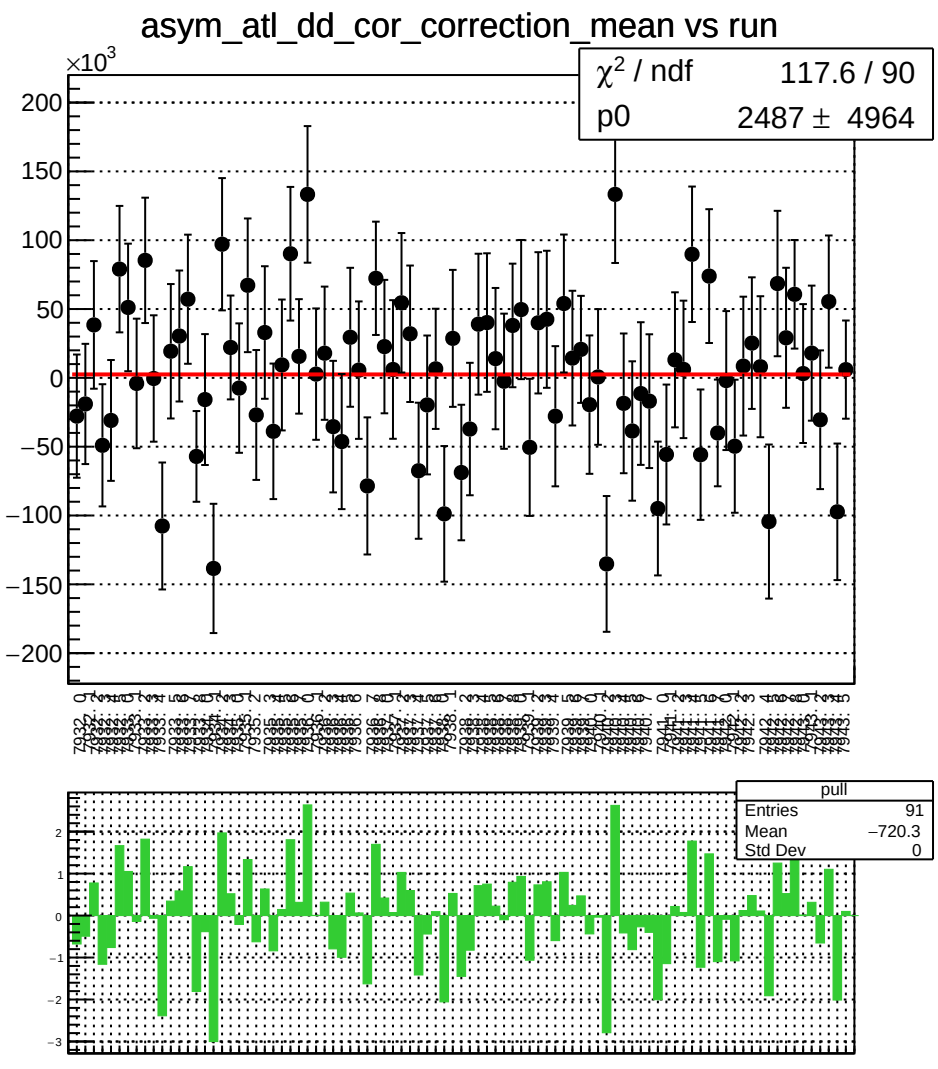

pull1D
Entries 91
Mean 0.001732
Std Dev 1.137

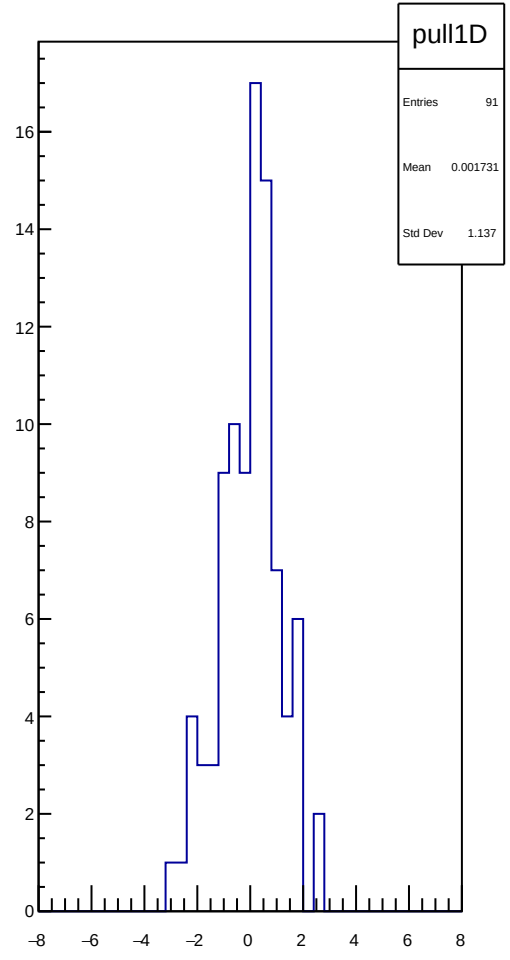

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 2813 / 90
p0 4638 ± 3.51
5400
5200
5000
4800
4600
4400
4200
4000

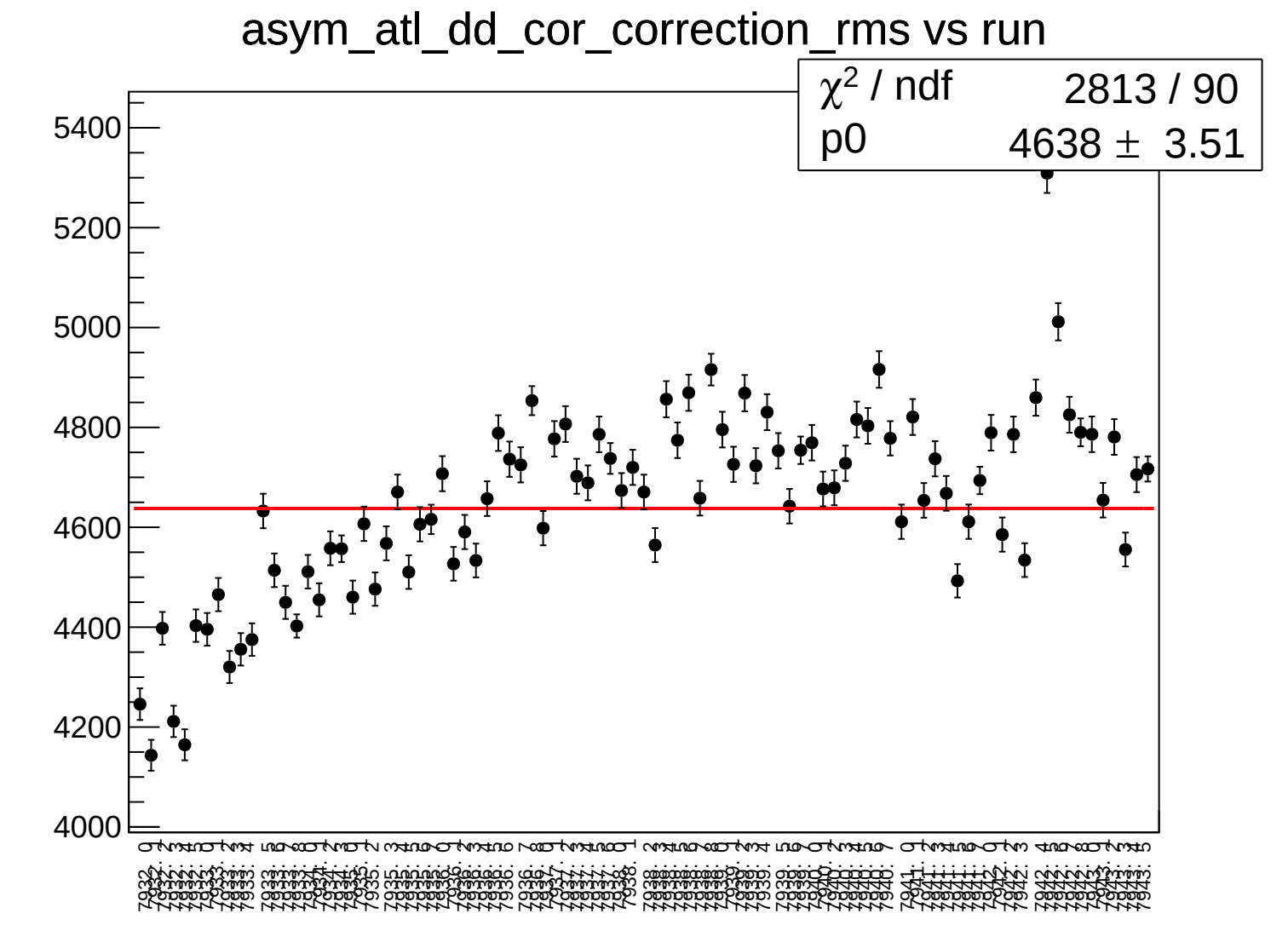

cor_asym_atl_dd_mean vs run
χ² / ndf 78.1 / 90
p0 2474 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 11.6
Std Dev 67.39
2
1
0
−1
−2

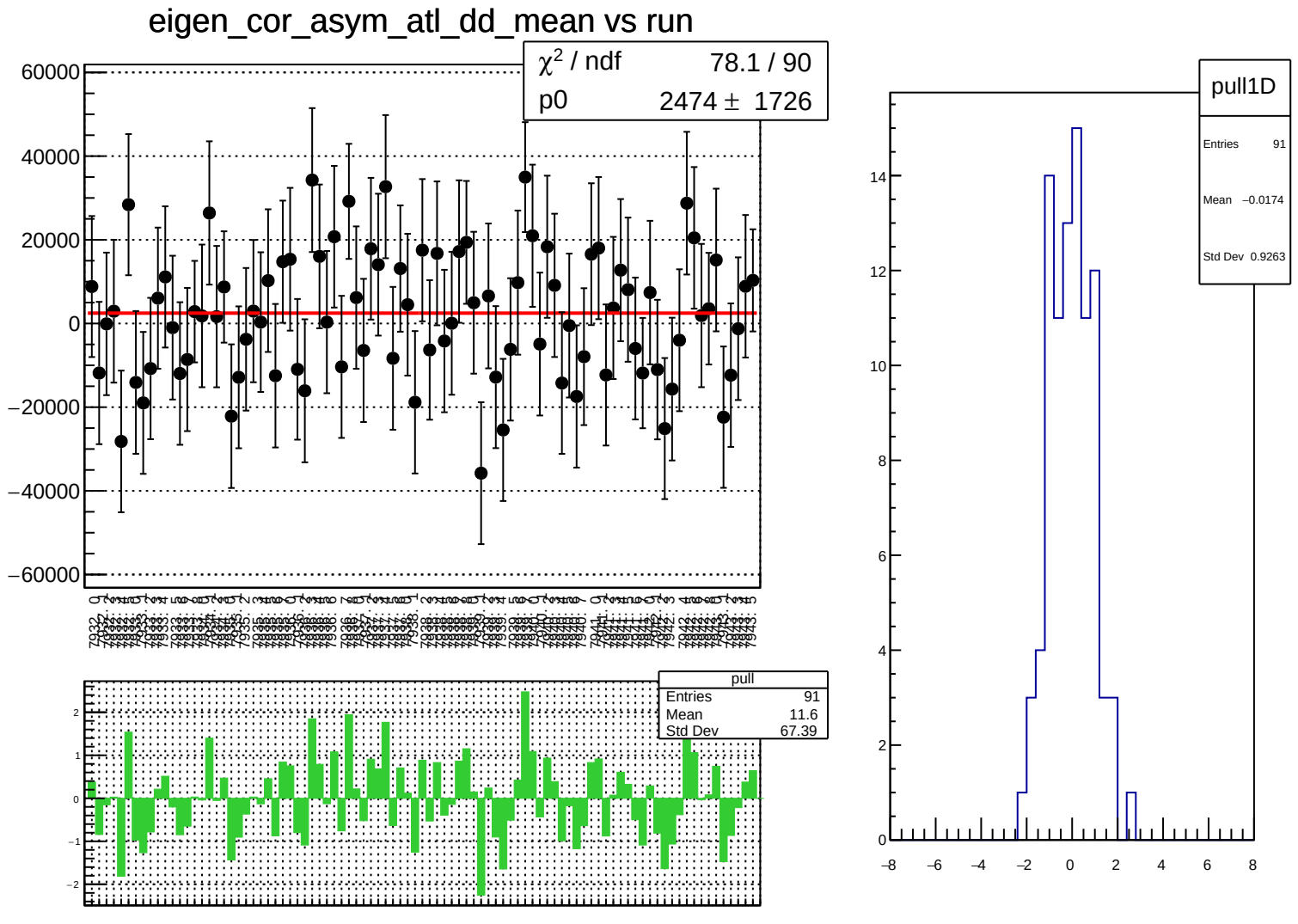

pull1D
Entries 91
Mean −0.0174
Std Dev 0.9263
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

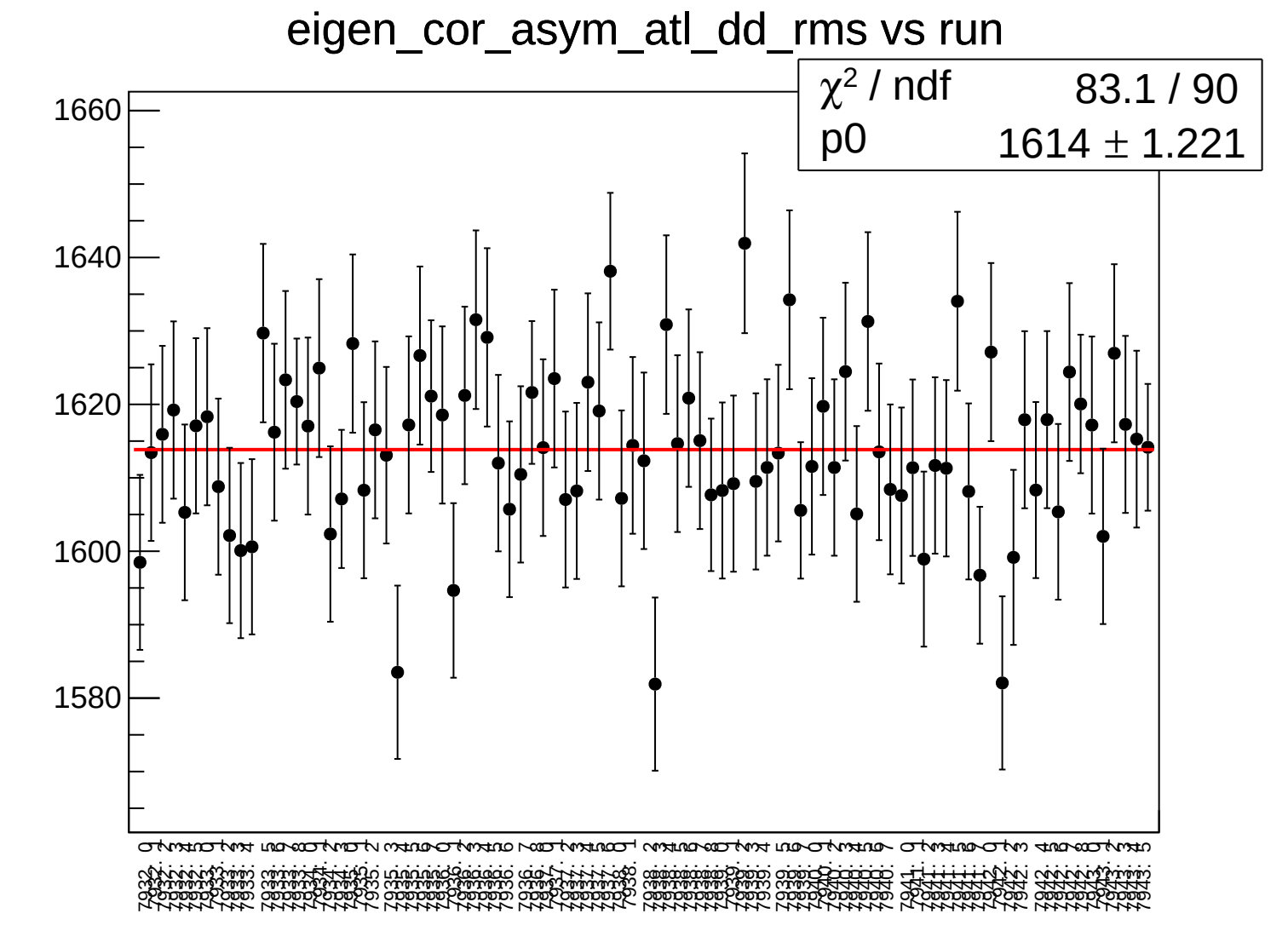

cor_asym_atl_dd_rms vs run
χ^2 / ndf 83.1 / 90
p0 1614 ± 1.221
1660
1640
1620
1600
1580

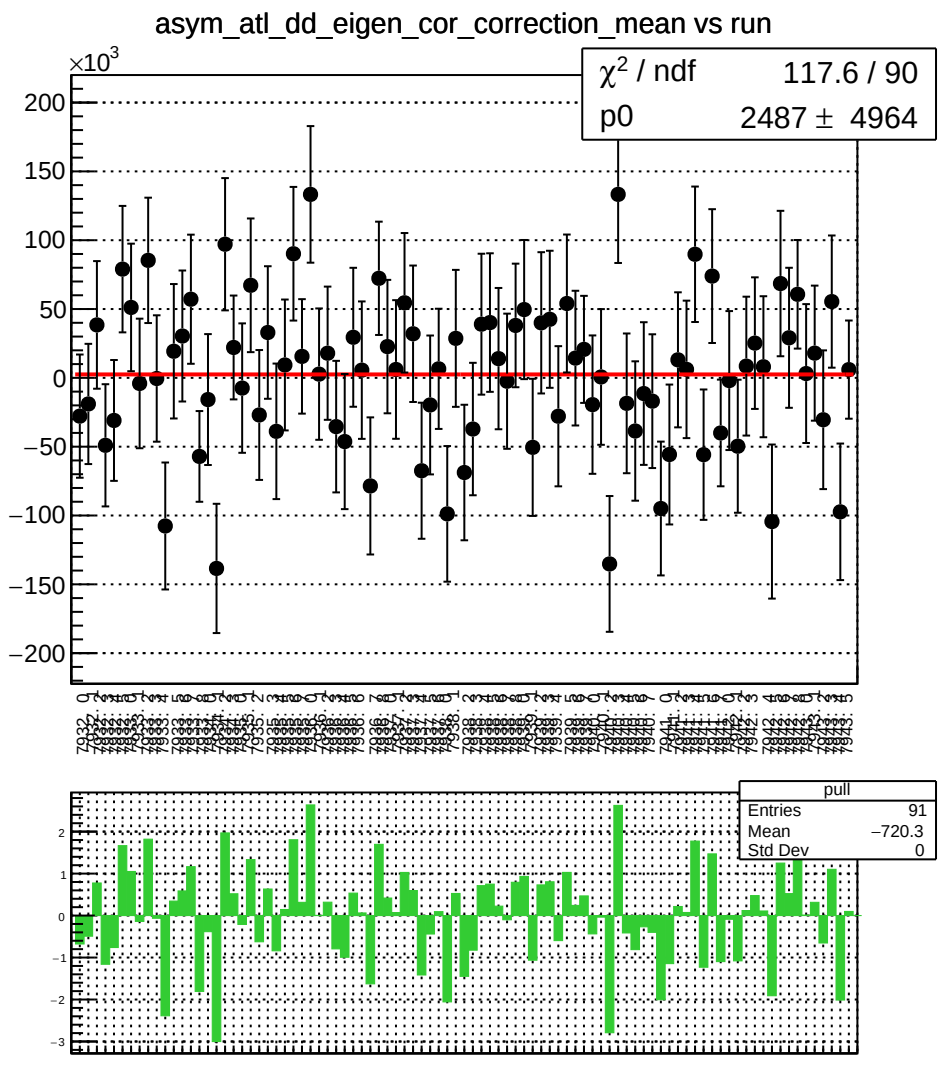

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 117.6 / 90
p0 2487 ± 4964
pull
Entries 91
Mean −720.3
Std Dev 0

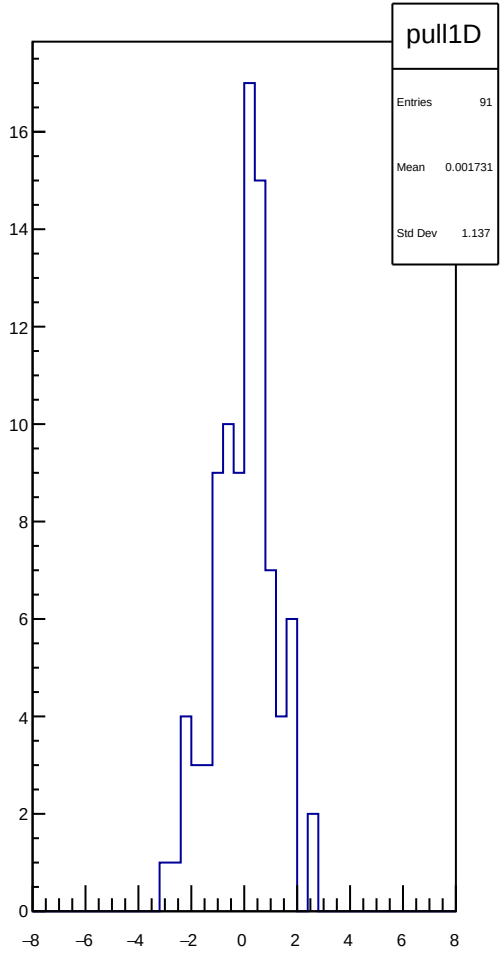

pull1D
Entries 91
Mean 0.001731
Std Dev 1.137

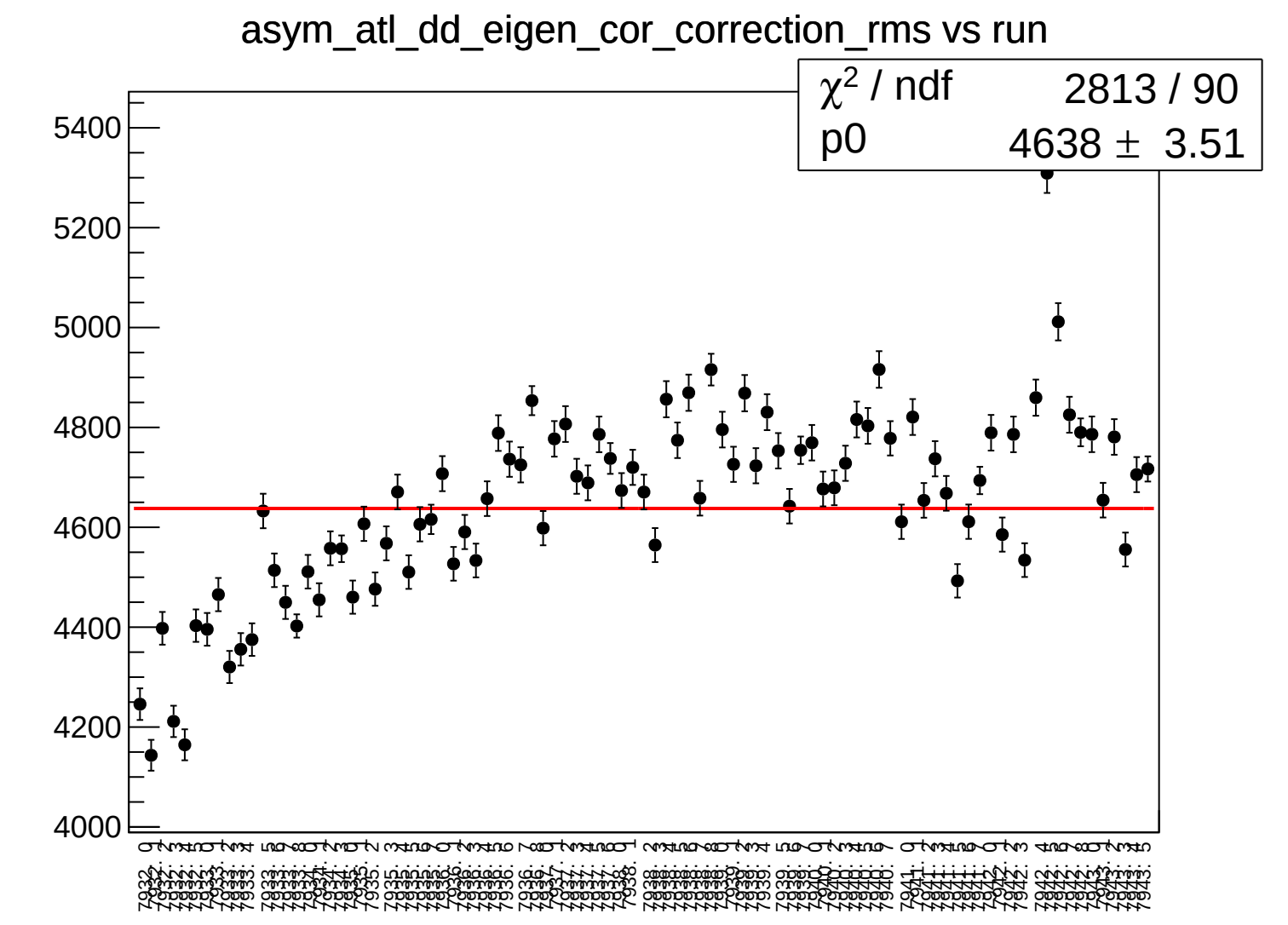

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 2813 / 90
p0 4638 ± 3.51
5400
5200
5000
4800
4600
4400
4200
4000

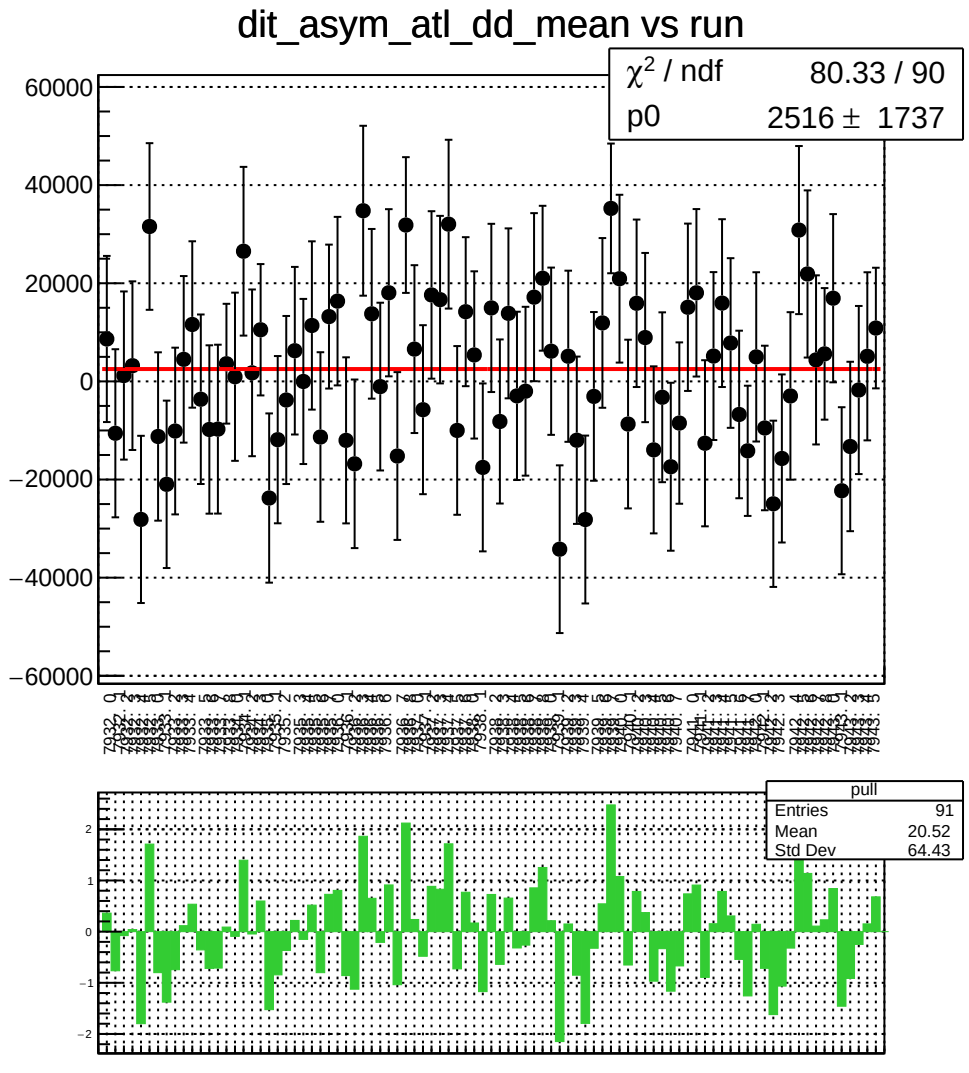

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 78.1 / 90
p0 2474 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 11.6
Std Dev 67.39
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0174
Std Dev 0.9263
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

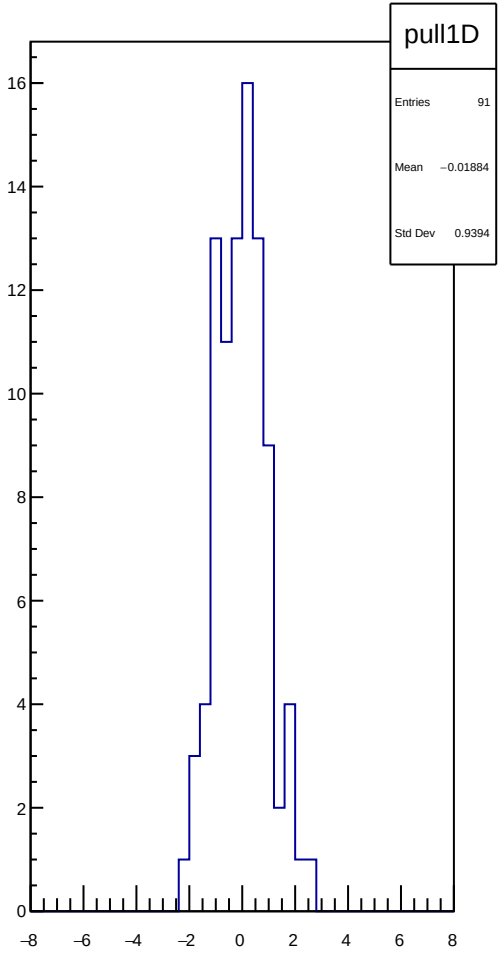

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 83.1 / 90
p0 1614 ± 1.221
1660
1640
1620
1600
1580

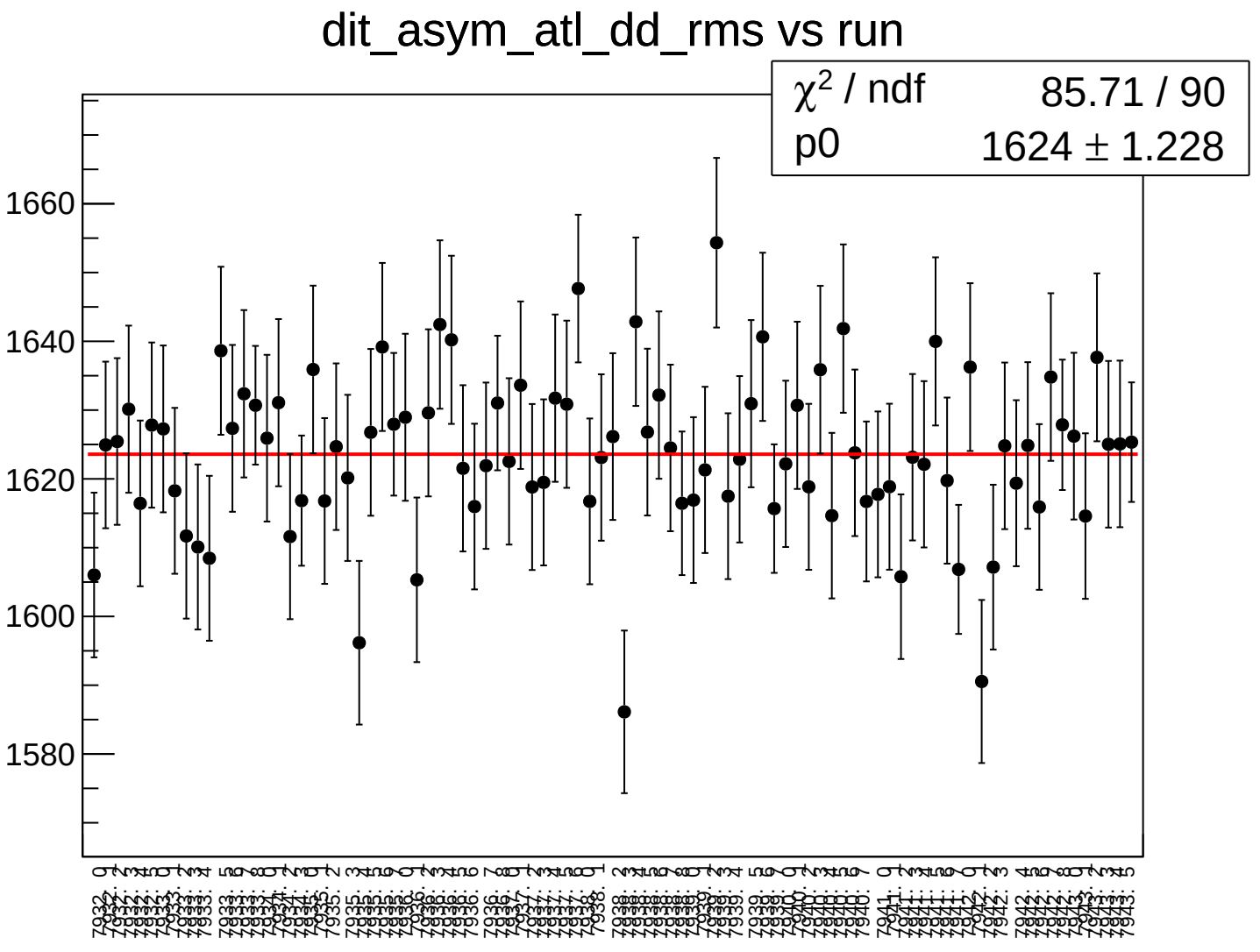

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 117.6 / 90
p0 2487 ± 4964
pull
Entries 91
Mean −720.3
Std Dev 0

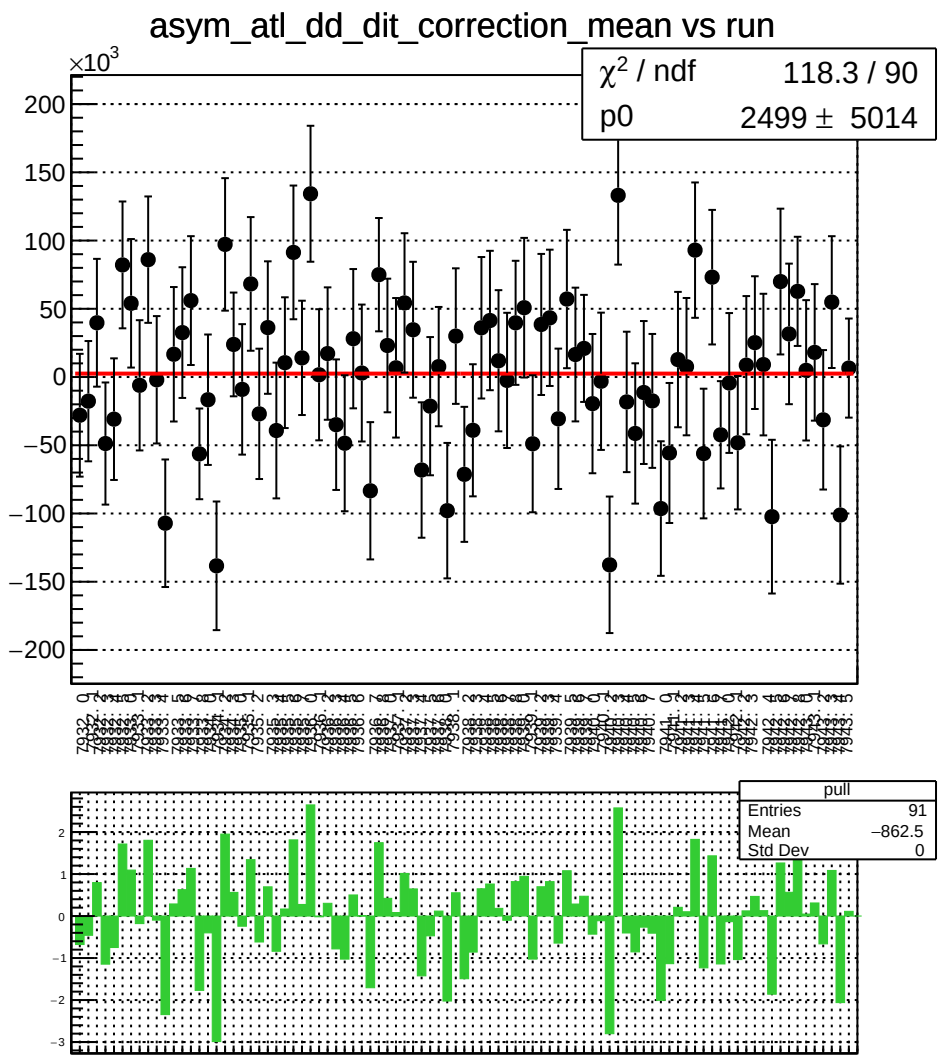

pull1D
Entries 91
Mean 0.001731
Std Dev 1.137

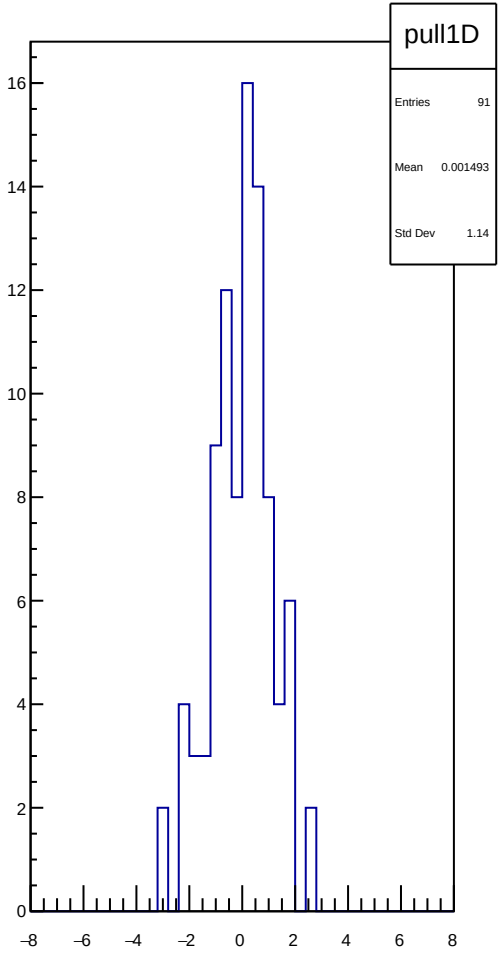

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2813 / 90
p0 4638 ± 3.51
5400
5200
5000
4800
4600
4400
4200
4000

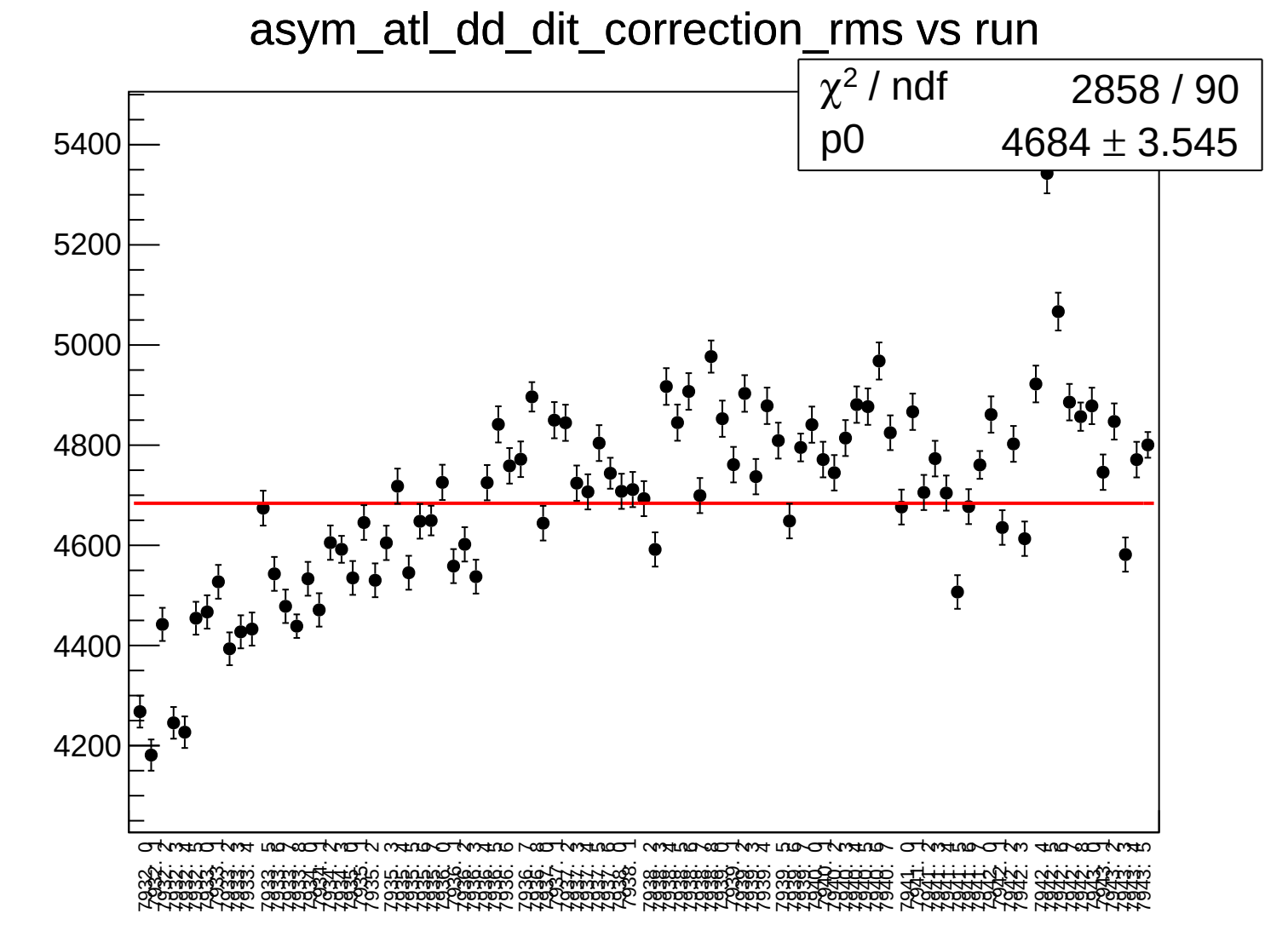

dit_asym_atl_dd_mean vs run
χ² / ndf 80.33 / 90
p0 2516 ± 1737
pull
Entries 91
Mean 20.52
Std Dev 64.43

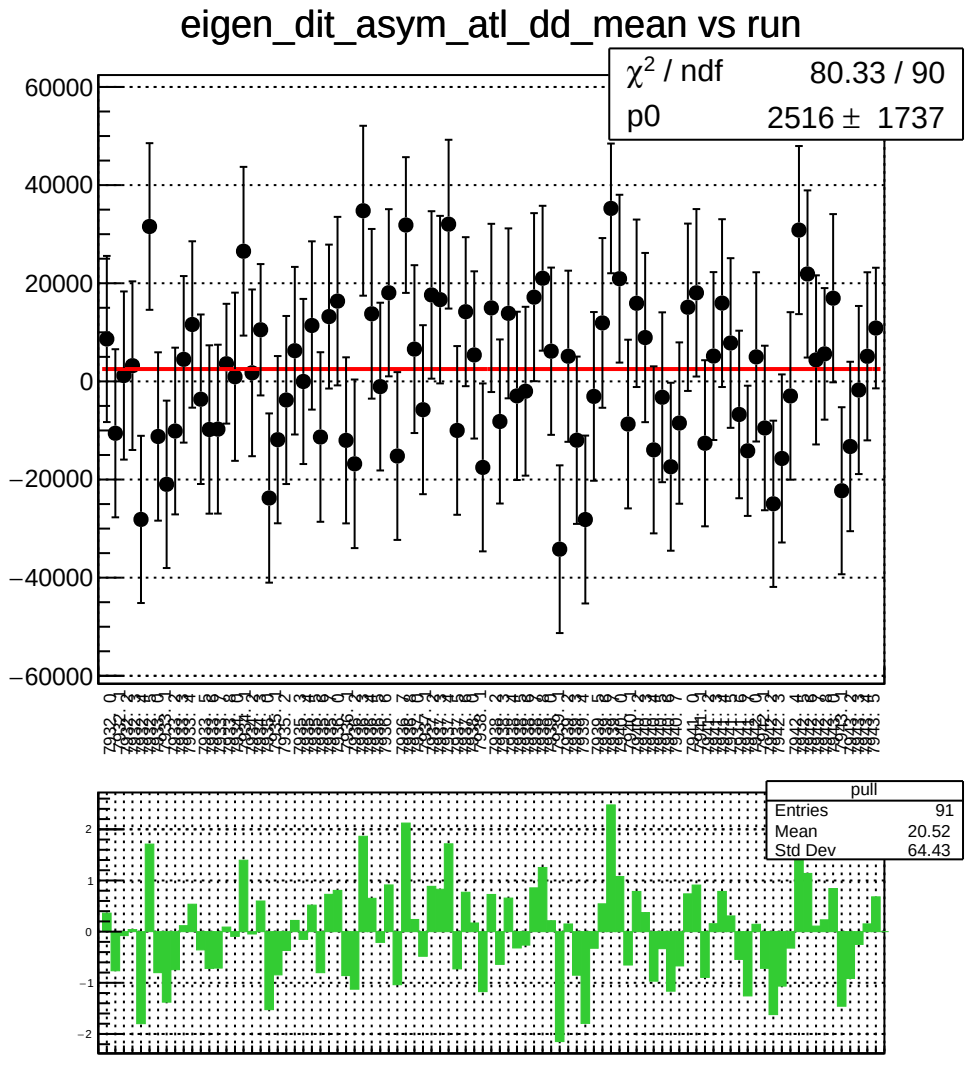

pull1D
Entries 91
Mean −0.01884
Std Dev 0.9394

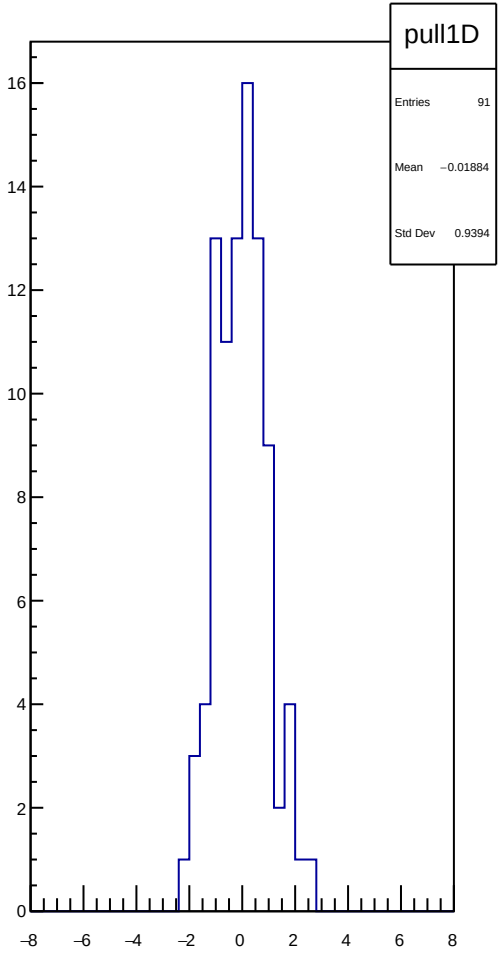

dit_asym_atl_dd_rms vs run
χ² / ndf 85.71 / 90
p0 1624 ± 1.228
1660
1640
1620
1600
1580

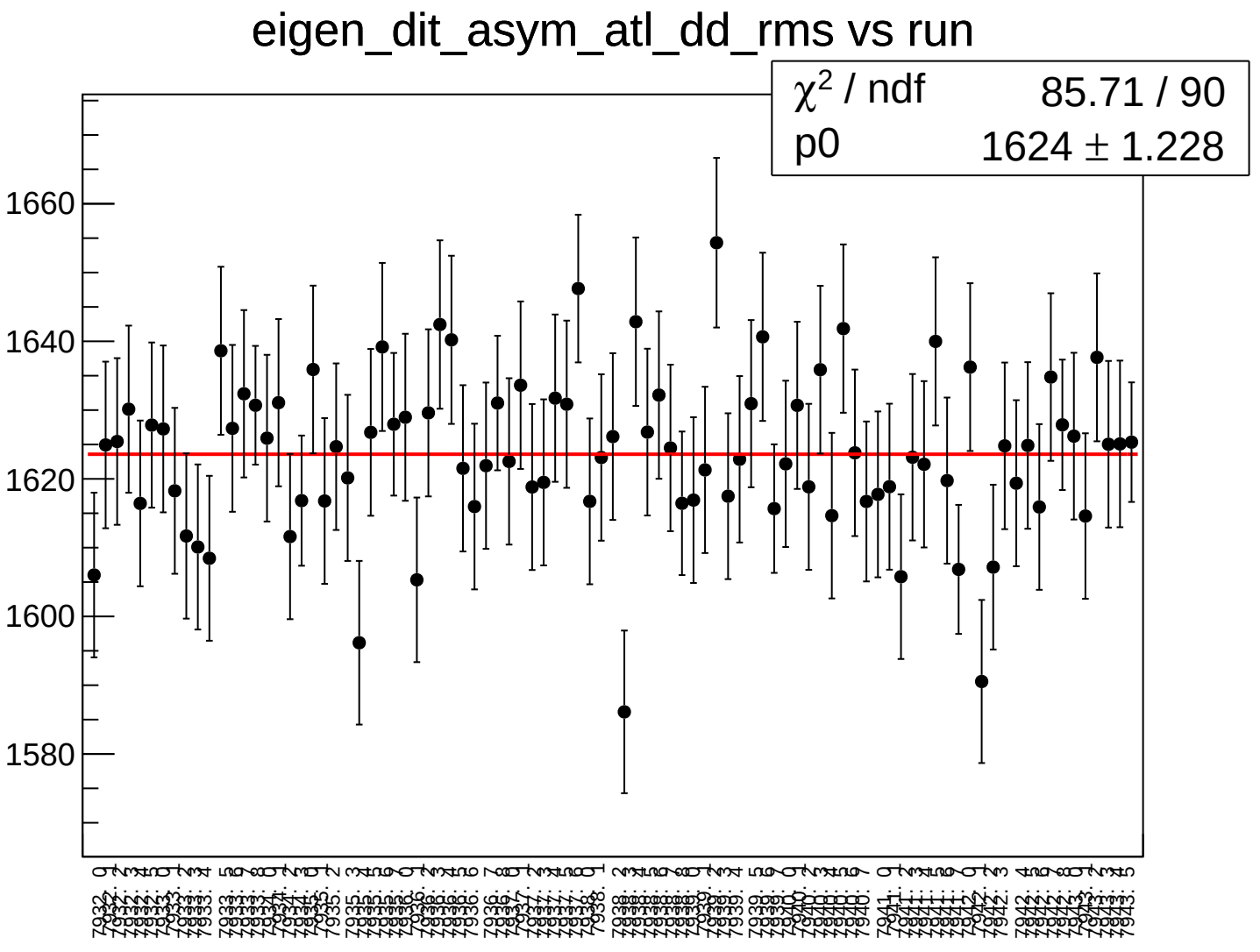

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 118.3 / 90
p0 2499 ± 5014
pull
Entries 91
Mean −862.5
Std Dev 0

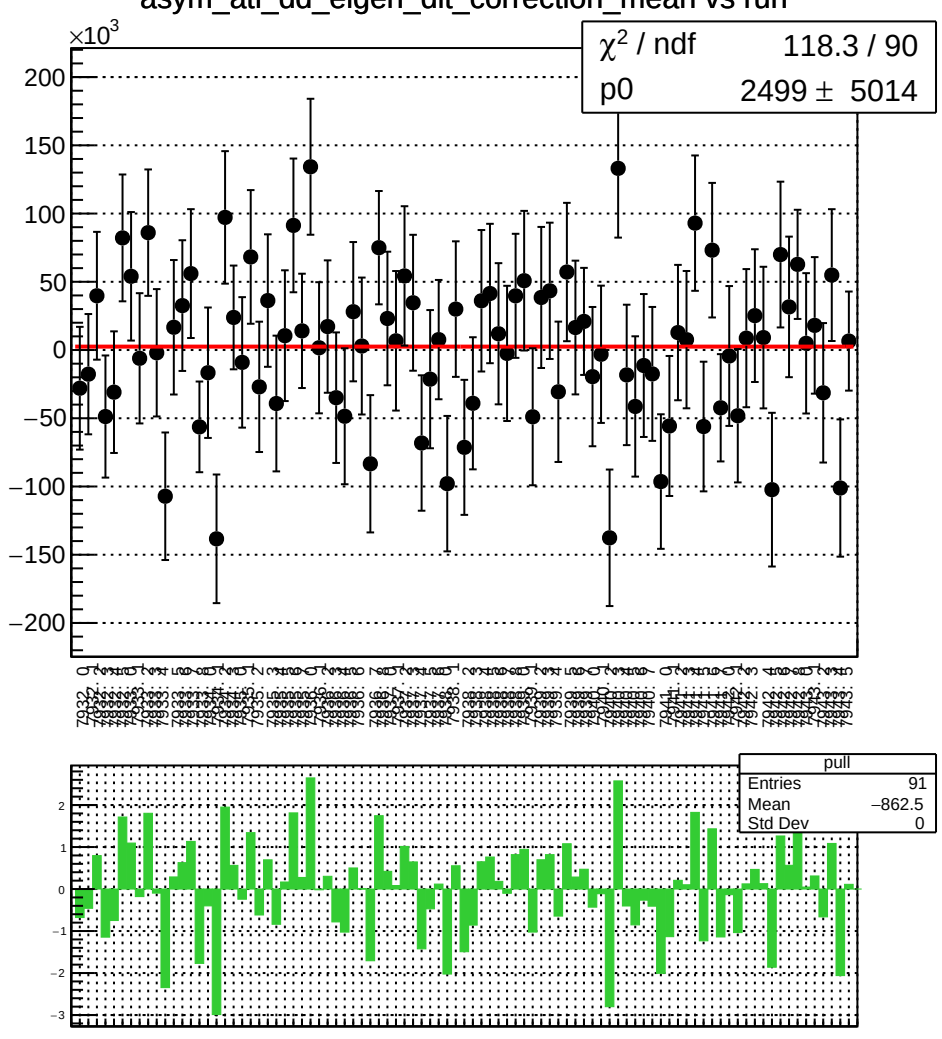

pull1D
Entries 91
Mean 0.001493
Std Dev 1.14

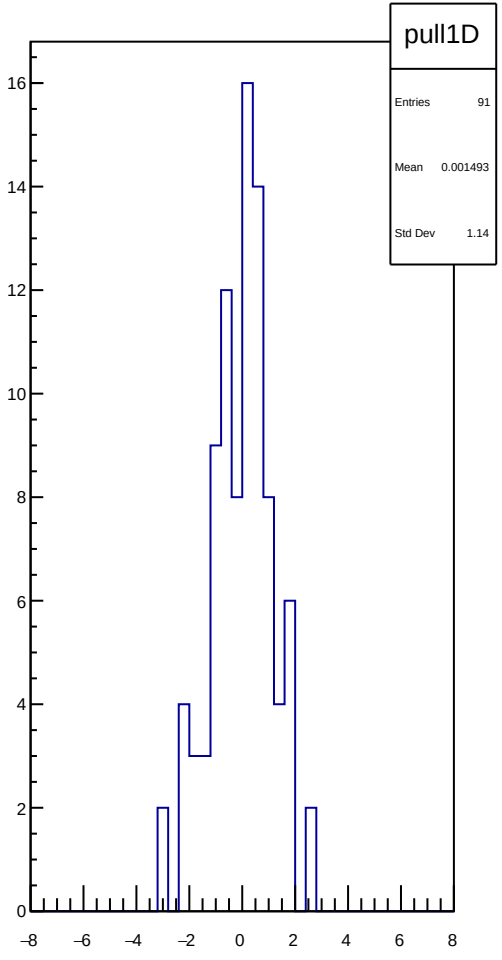

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 2858 / 90
p0 4684 ± 3.545
5400
5200
5000
4800
4600
4400
4200

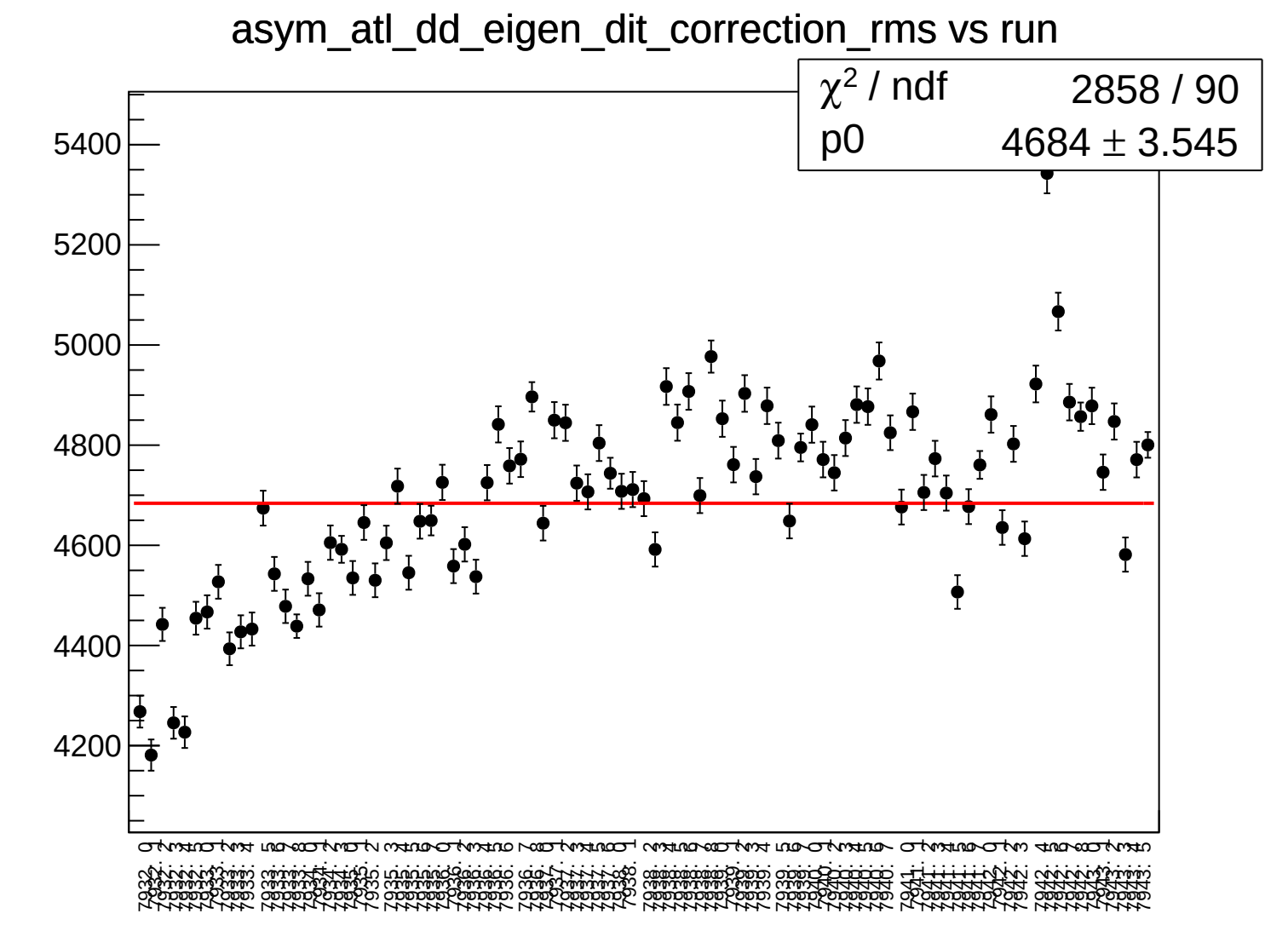

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 80.33 / 90
p0 2516 ± 1737
pull
Entries 91
Mean 20.52
Std Dev 64.43

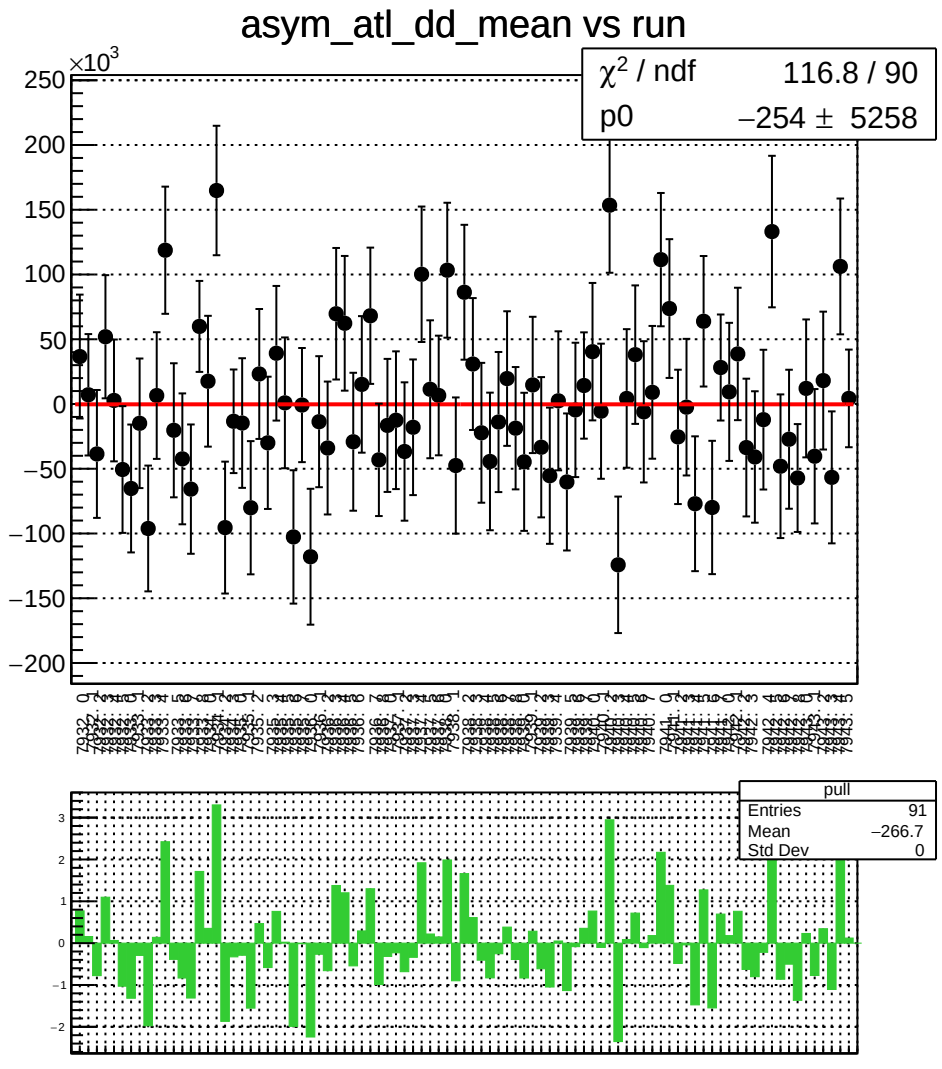

pull1D
Entries 91
Mean −0.01884
Std Dev 0.9394

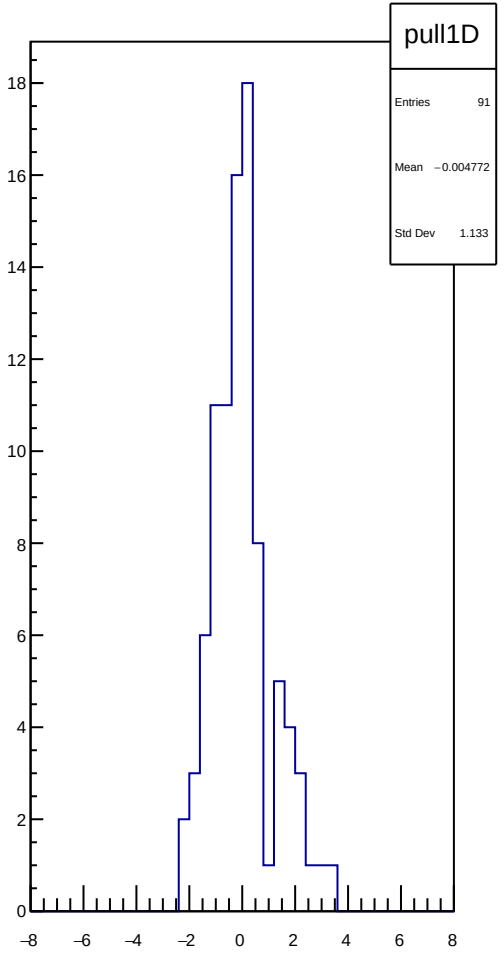

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 85.71 / 90
p0 1624 ± 1.228
1660
1640
1620
1600
1580

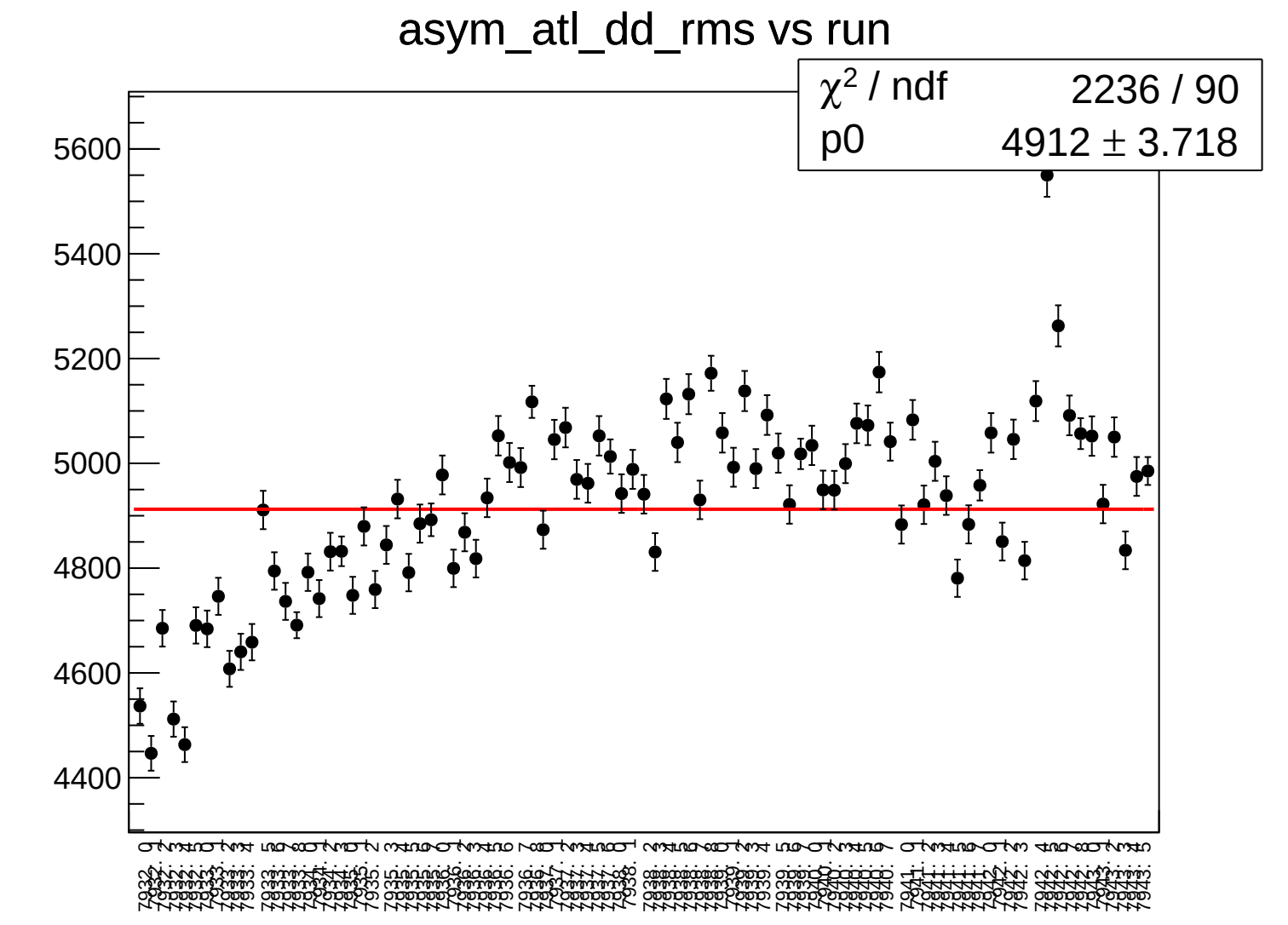

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 118.3 / 90
p0 2499 ± 5014
pull
Entries 91
Mean −862.5
Std Dev 0

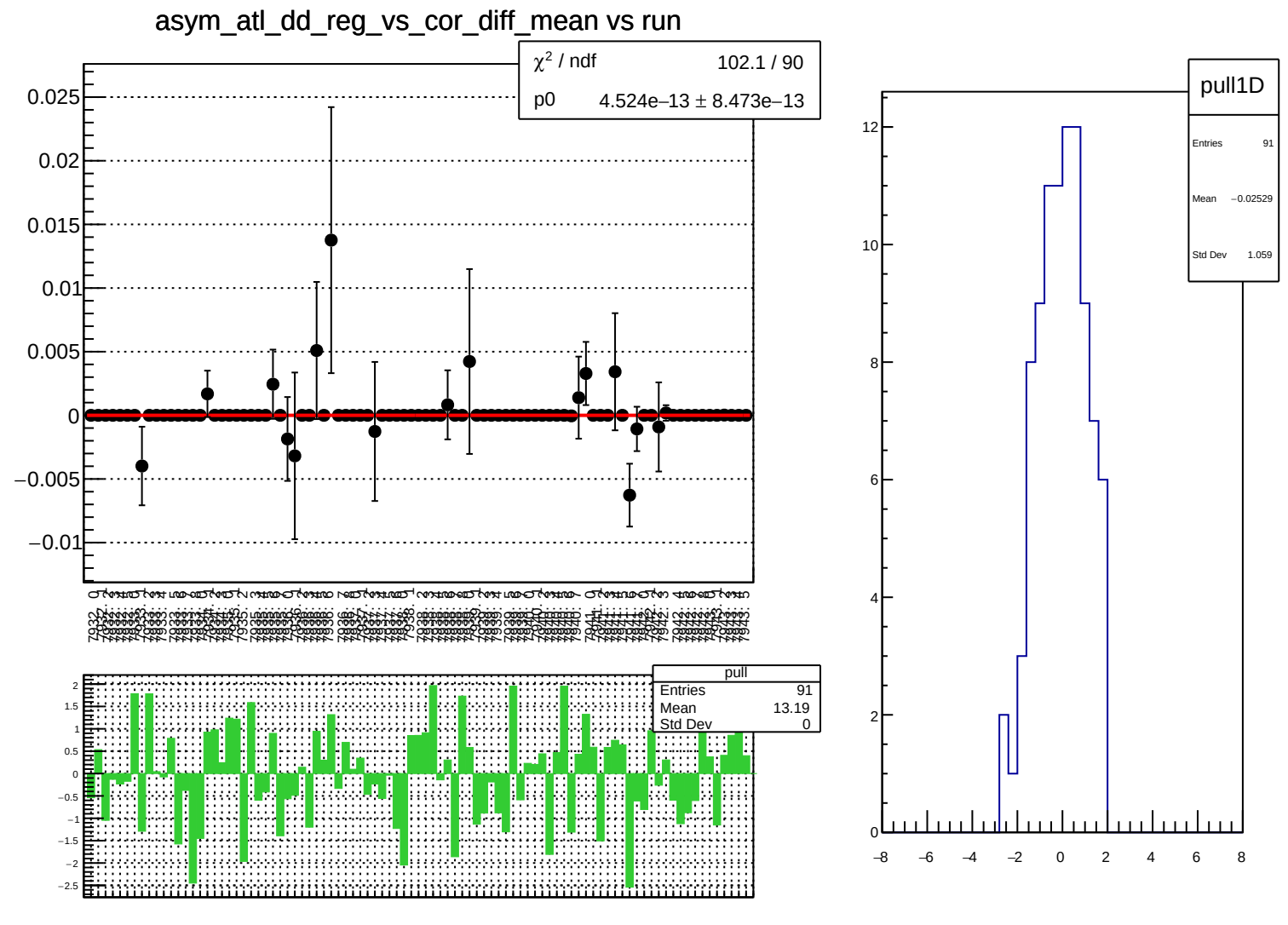

pull1D
Entries 91
Mean 0.001493
Std Dev 1.14

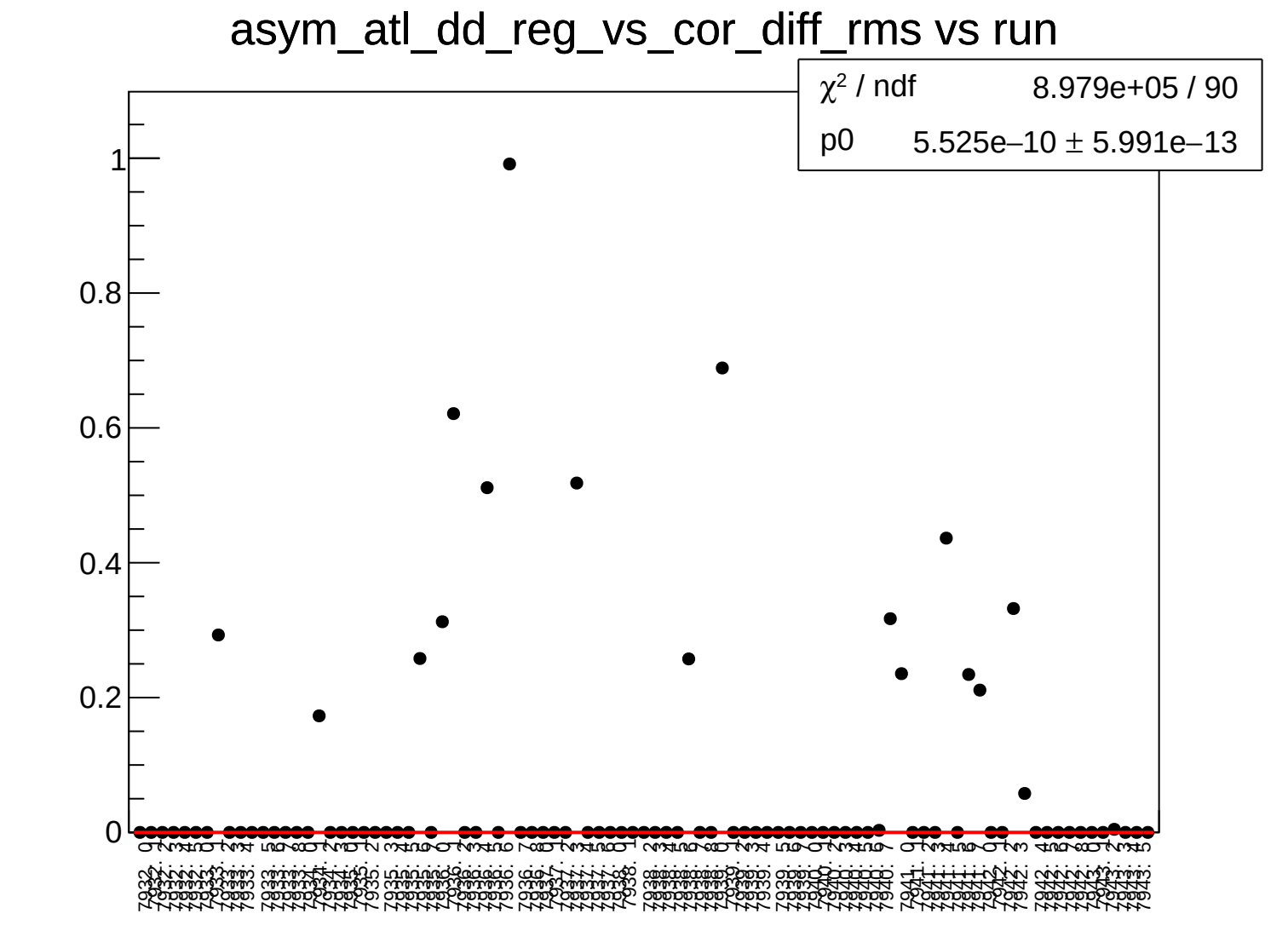

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 2858 / 90
p0 4684 ± 3.545
5400
5200
5000
4800
4600
4400
4200

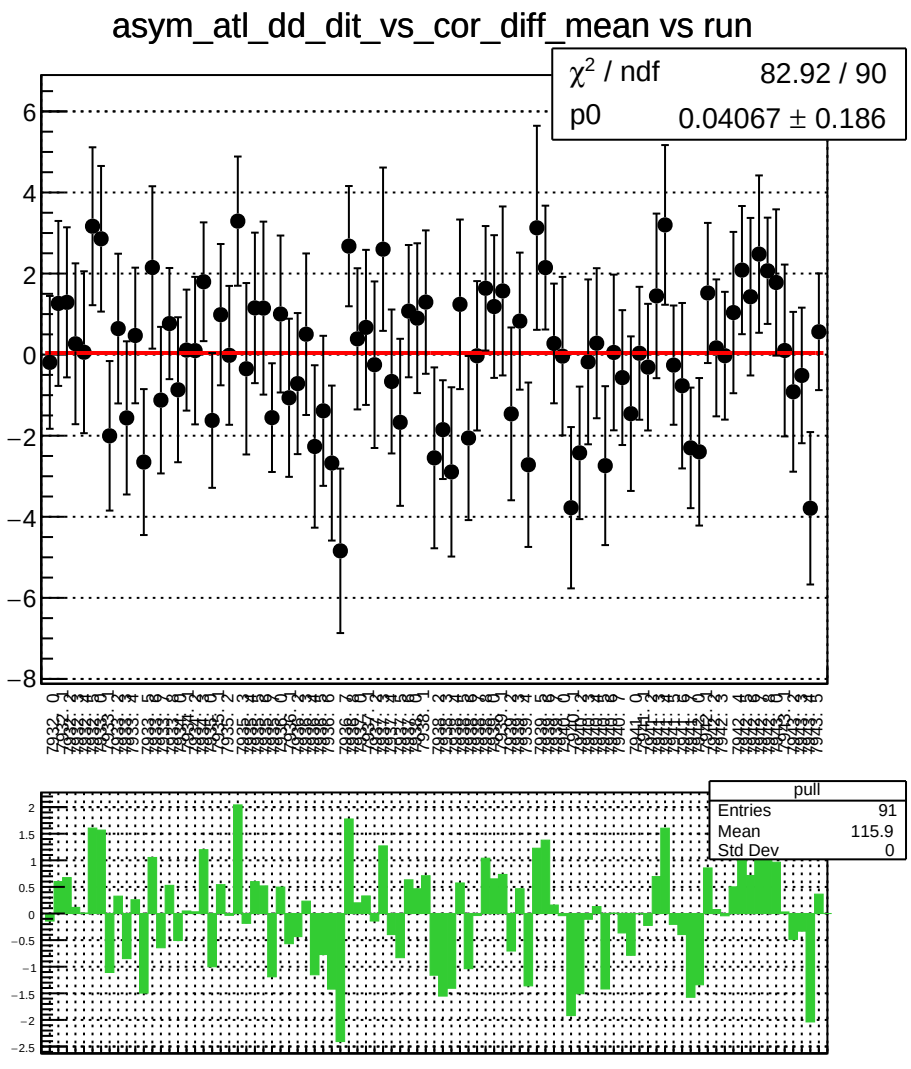

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 116.8 / 90
p0 −254 ± 5258
pull
Entries 91
Mean −266.7
Std Dev 0

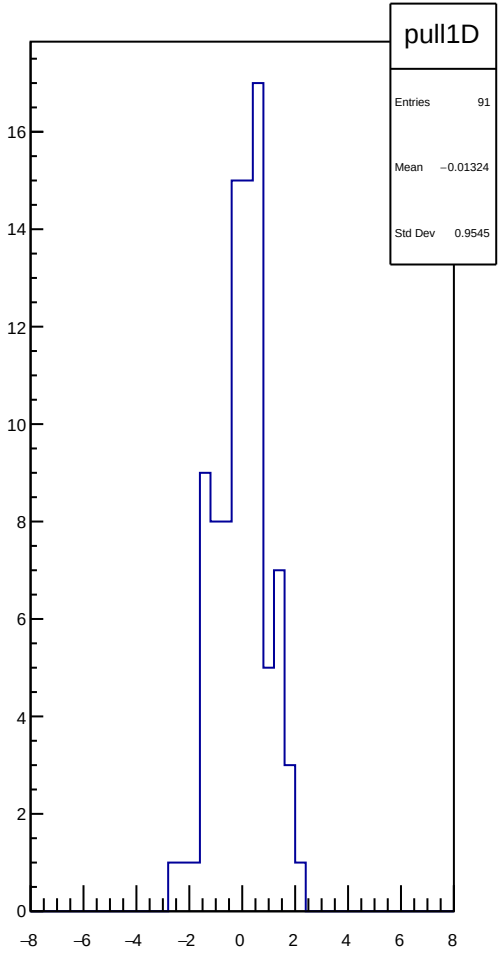

pull1D
Entries 91
Mean −0.004772
Std Dev 1.133

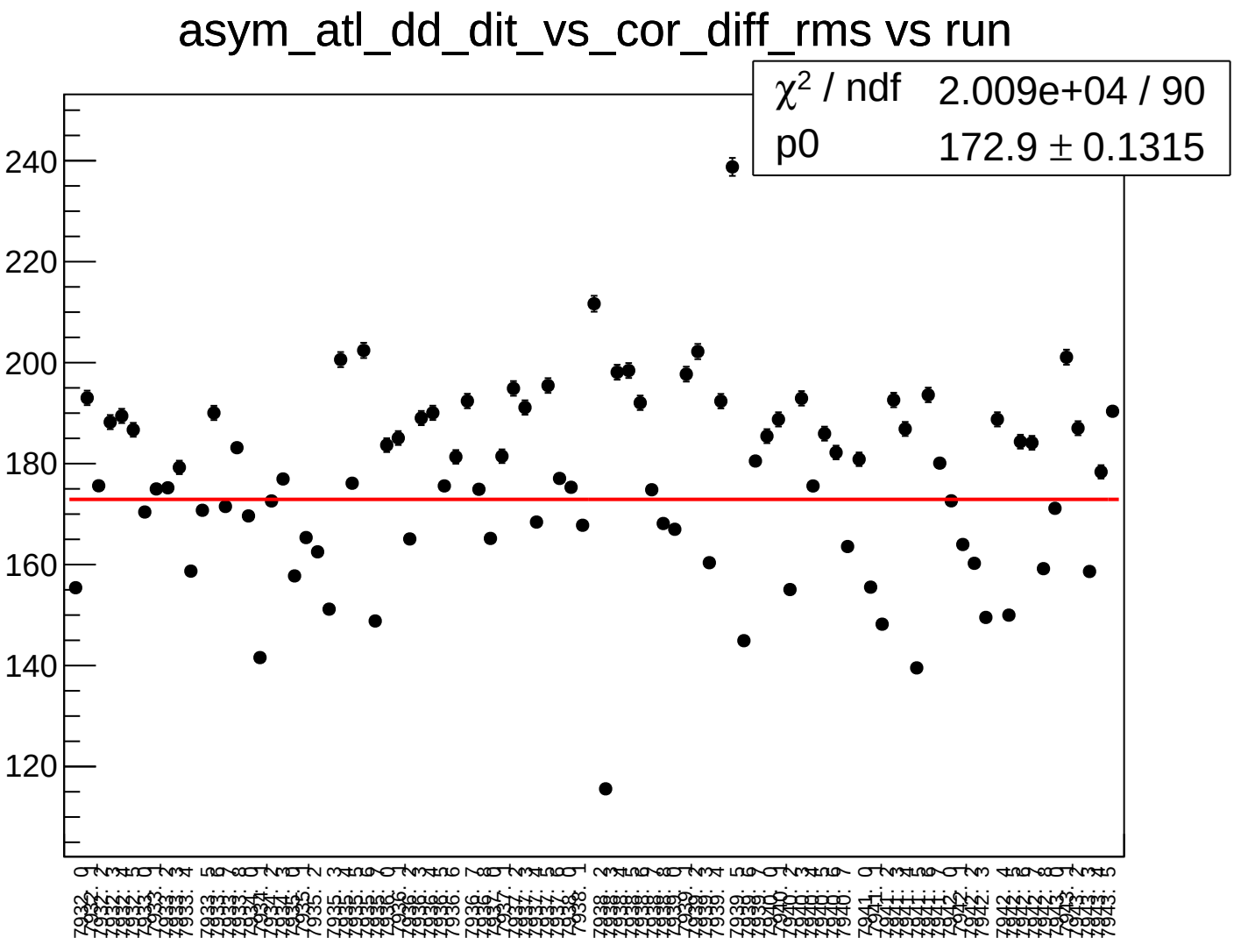

asym_atl_dd_rms vs run
χ^2 / ndf 2236 / 90
p0 4912 ± 3.718
5600
5400
5200
5000
4800
4600
4400

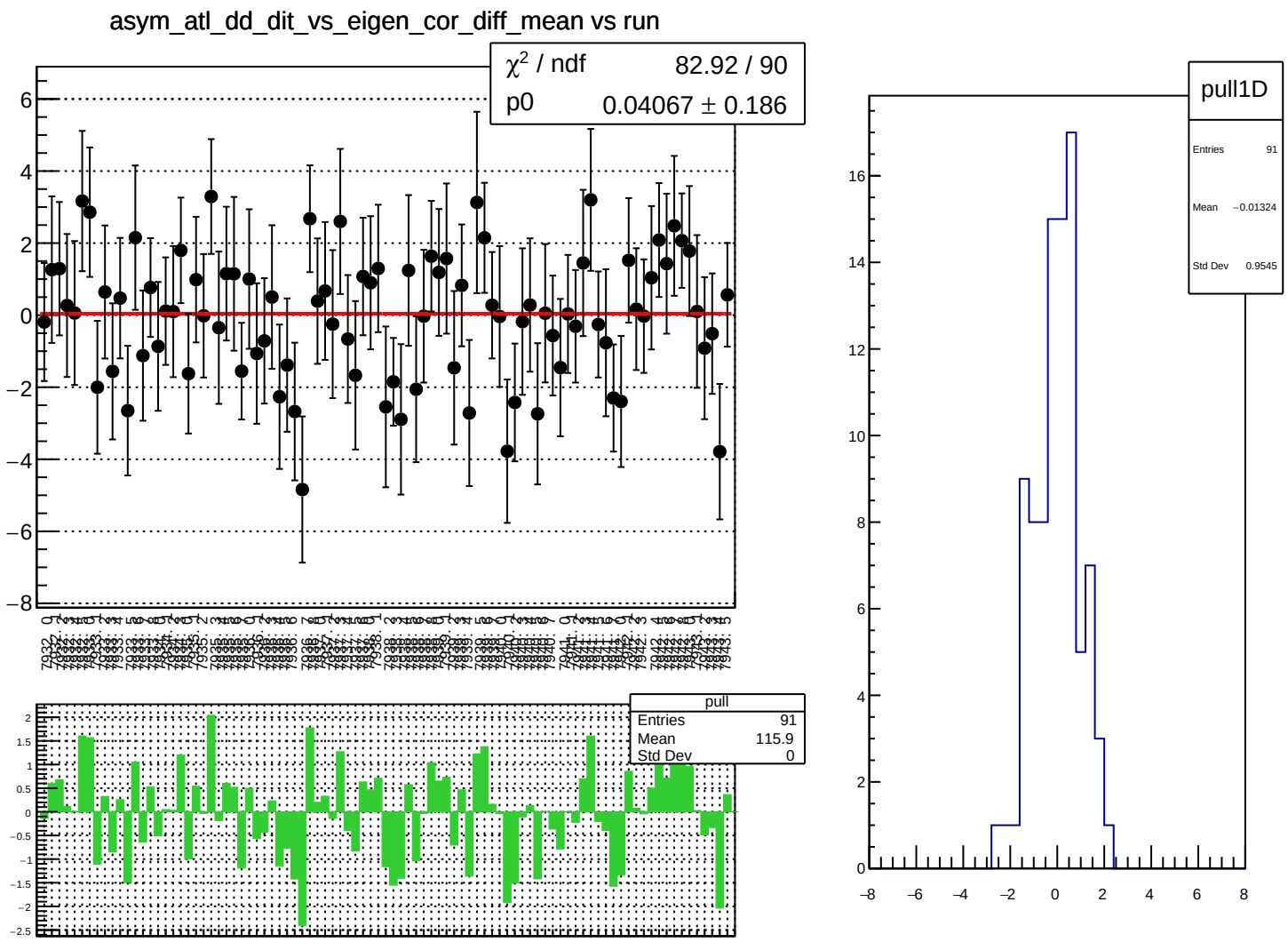

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 90
p0 4.524e−13 ± 8.473e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 13.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean −0.02529
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

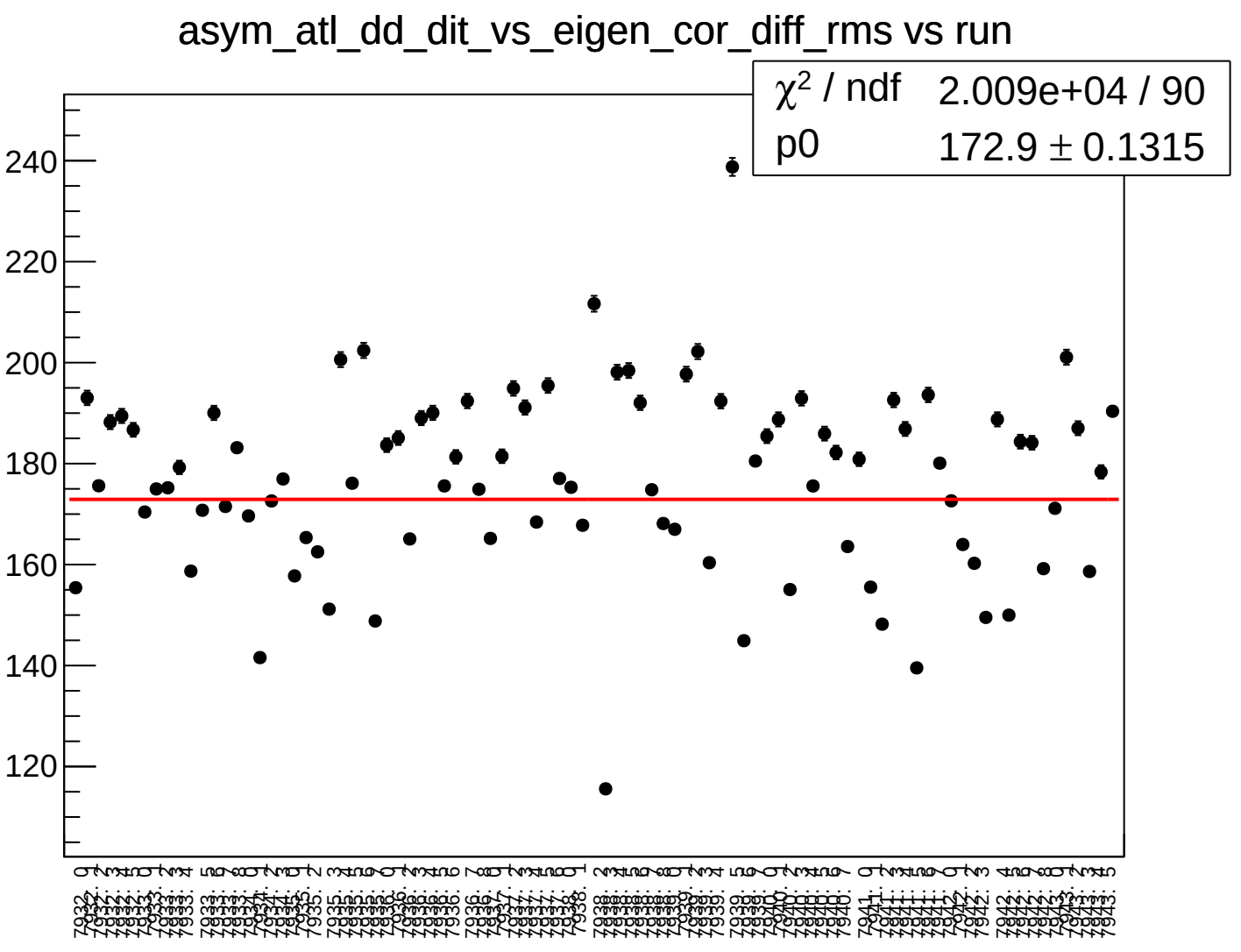

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.979e+05 / 90
p0 5.525e−10 ± 5.991e−13
1
0.8
0.6
0.4
0.2
0

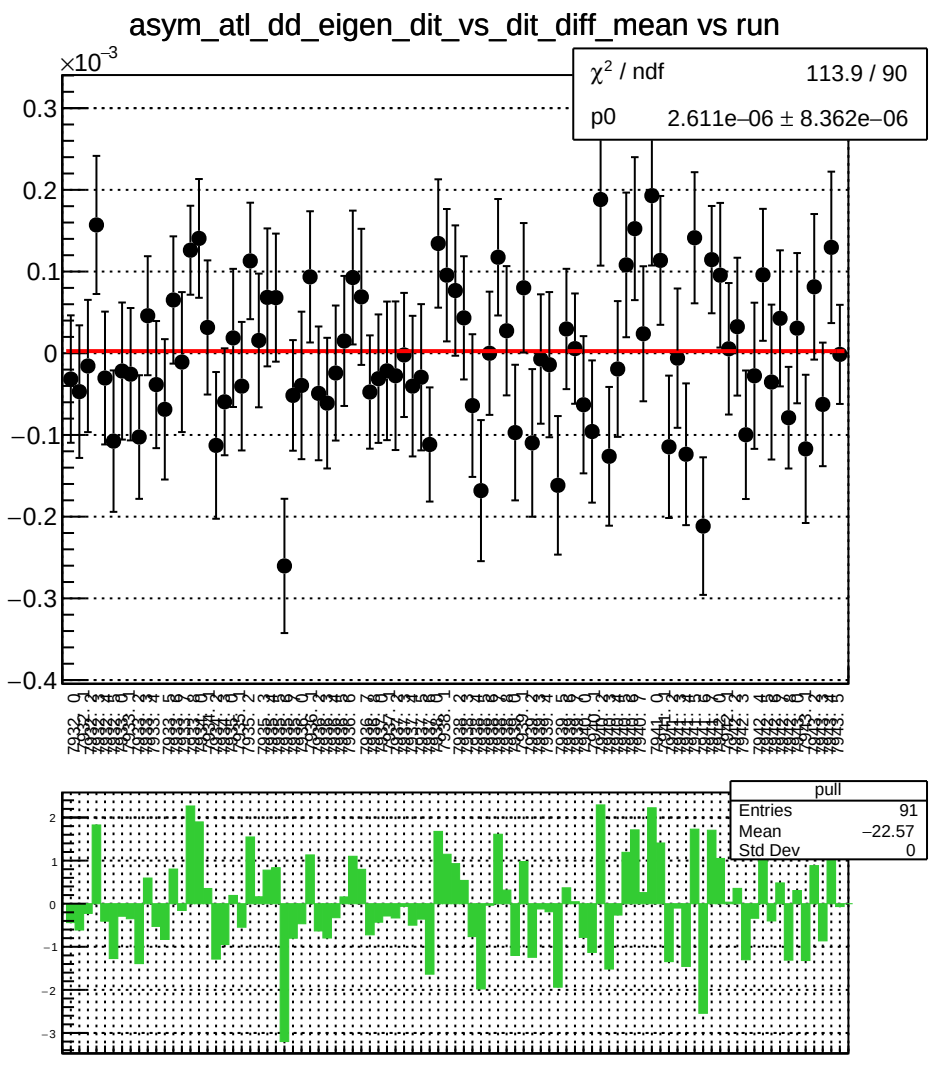

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.04067 ± 0.186
pull
Entries 91
Mean 115.9
Std Dev 0

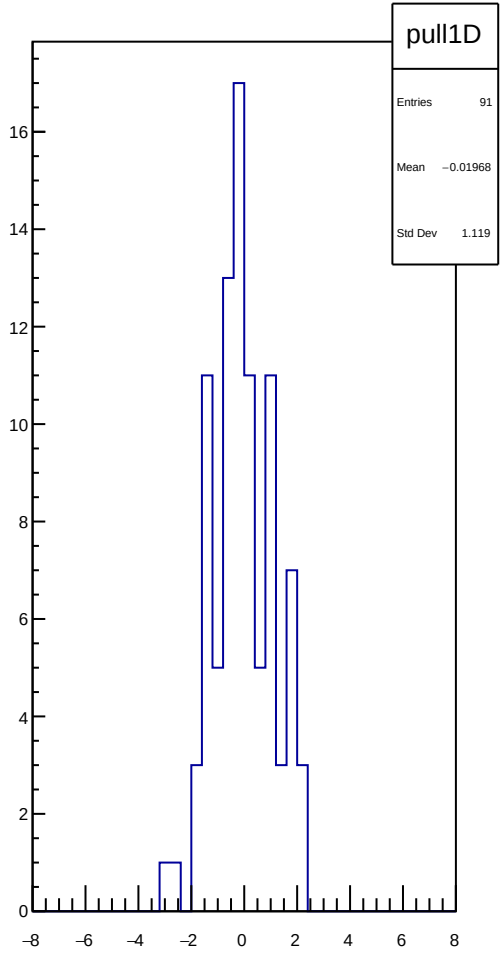

pull1D
Entries 91
Mean −0.01324
Std Dev 0.9545

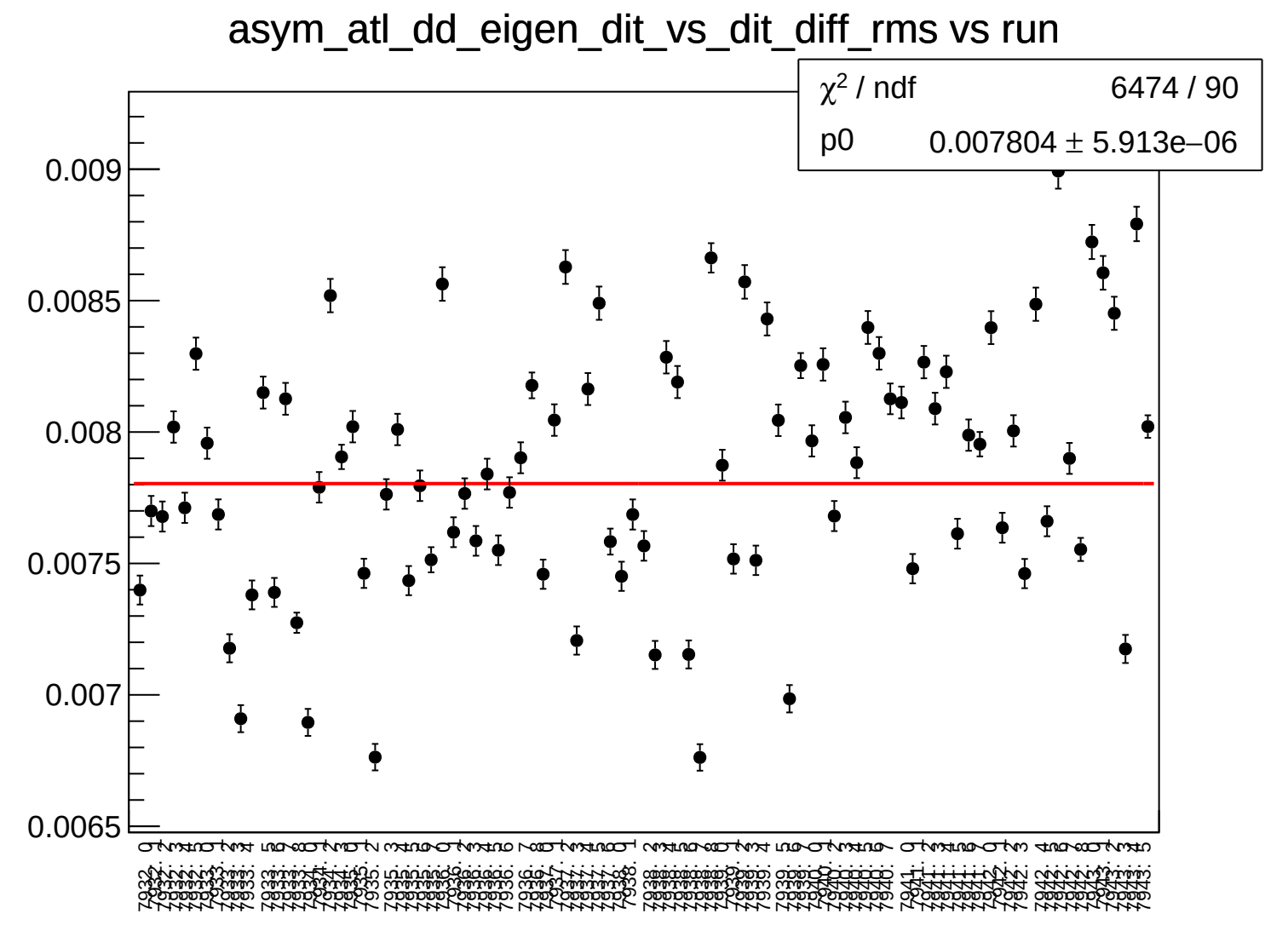

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.009e+04 / 90
p0 172.9 ± 0.1315
240
220
200
180
160
140
120

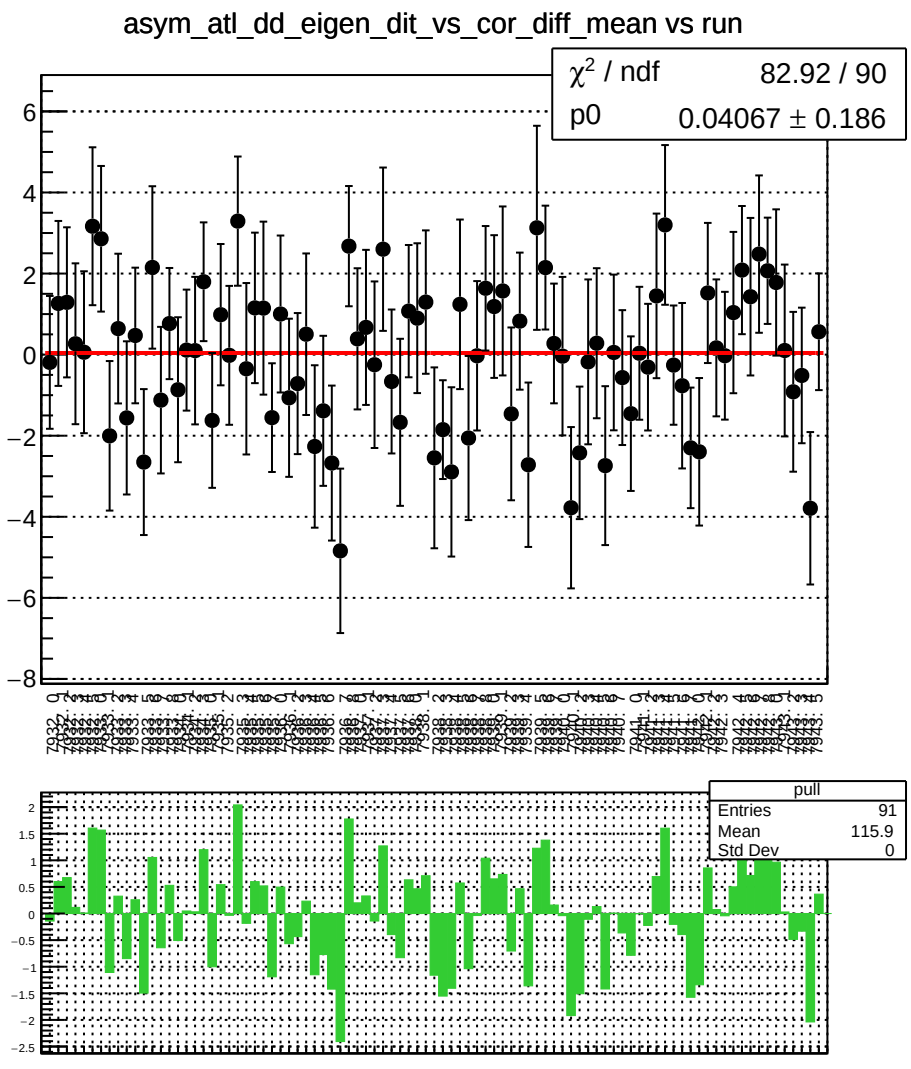

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.04067 ± 0.186
pull
Entries 91
Mean 115.9
Std Dev 0
pull1D
Entries 91
Mean −0.01324
Std Dev 0.9545

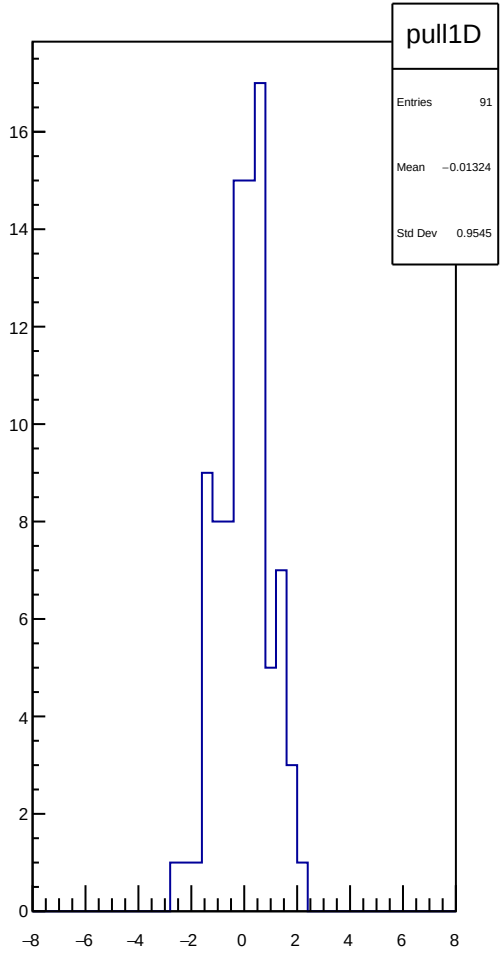

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.009e+04 / 90
p0 172.9 ± 0.1315
240
220
200
180
160
140
120

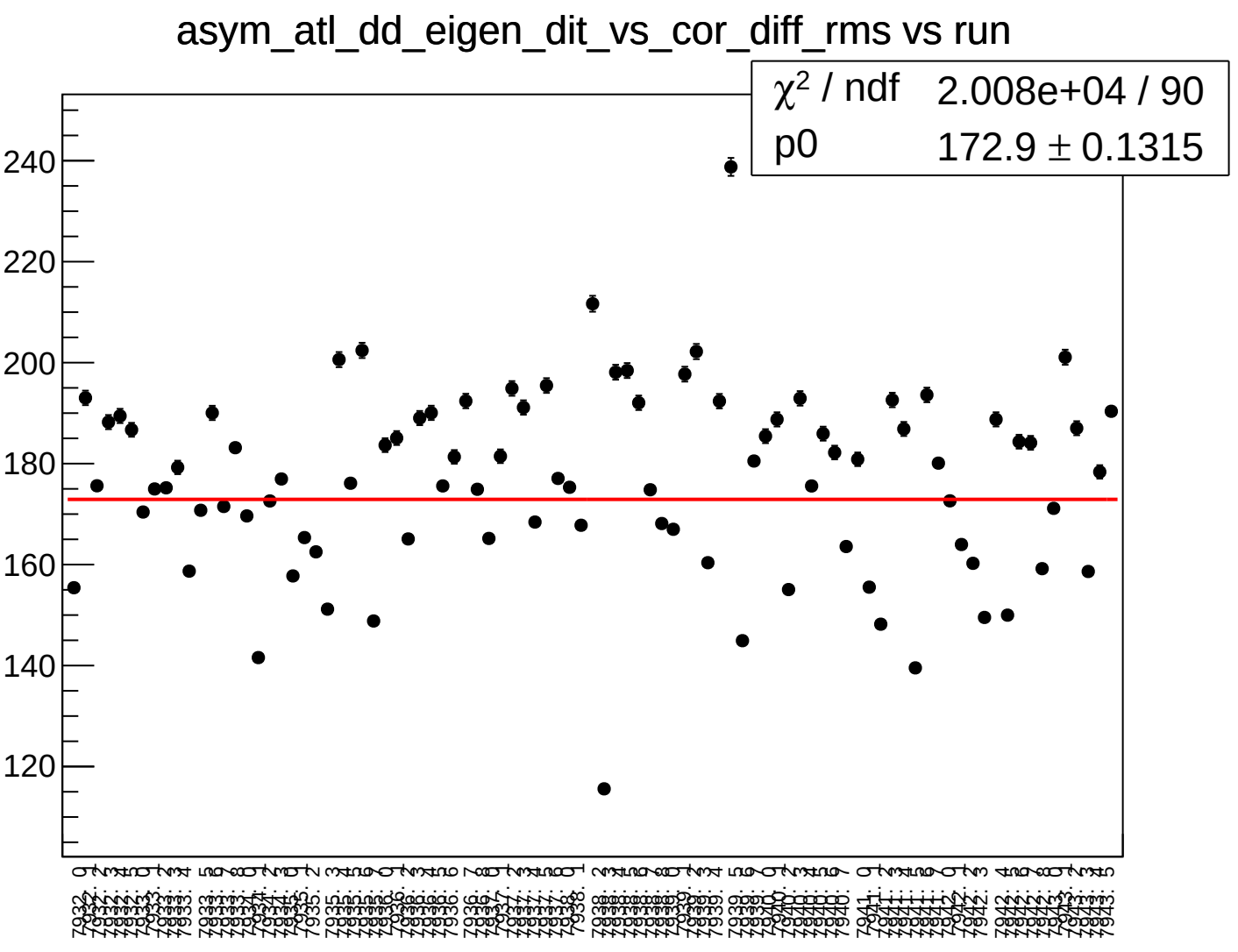

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.9 / 90
p0 2.611e−06 ± 8.362e−06
pull
Entries 91
Mean −22.57
Std Dev 0

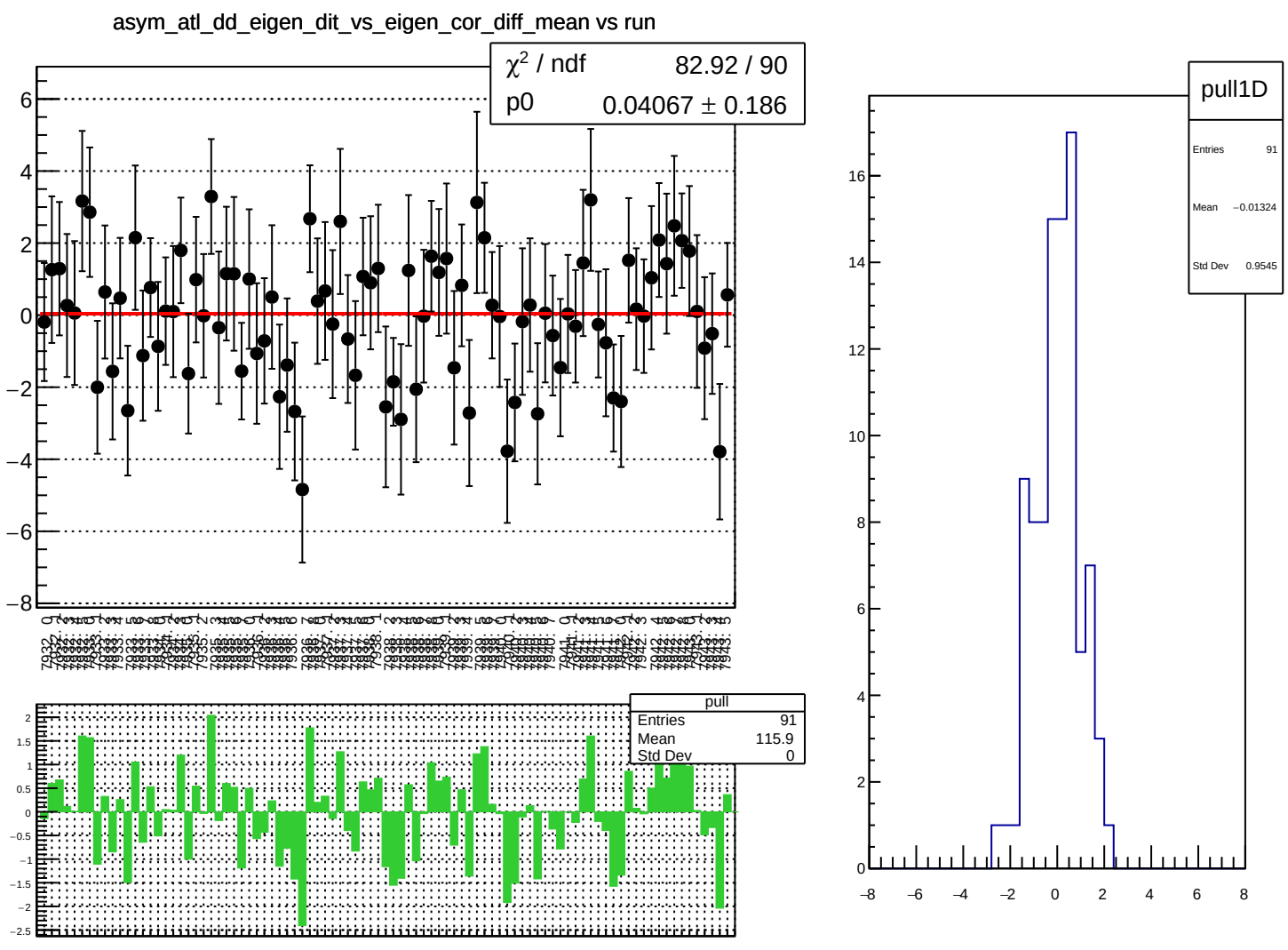

pull1D
Entries 91
Mean −0.01968
Std Dev 1.119

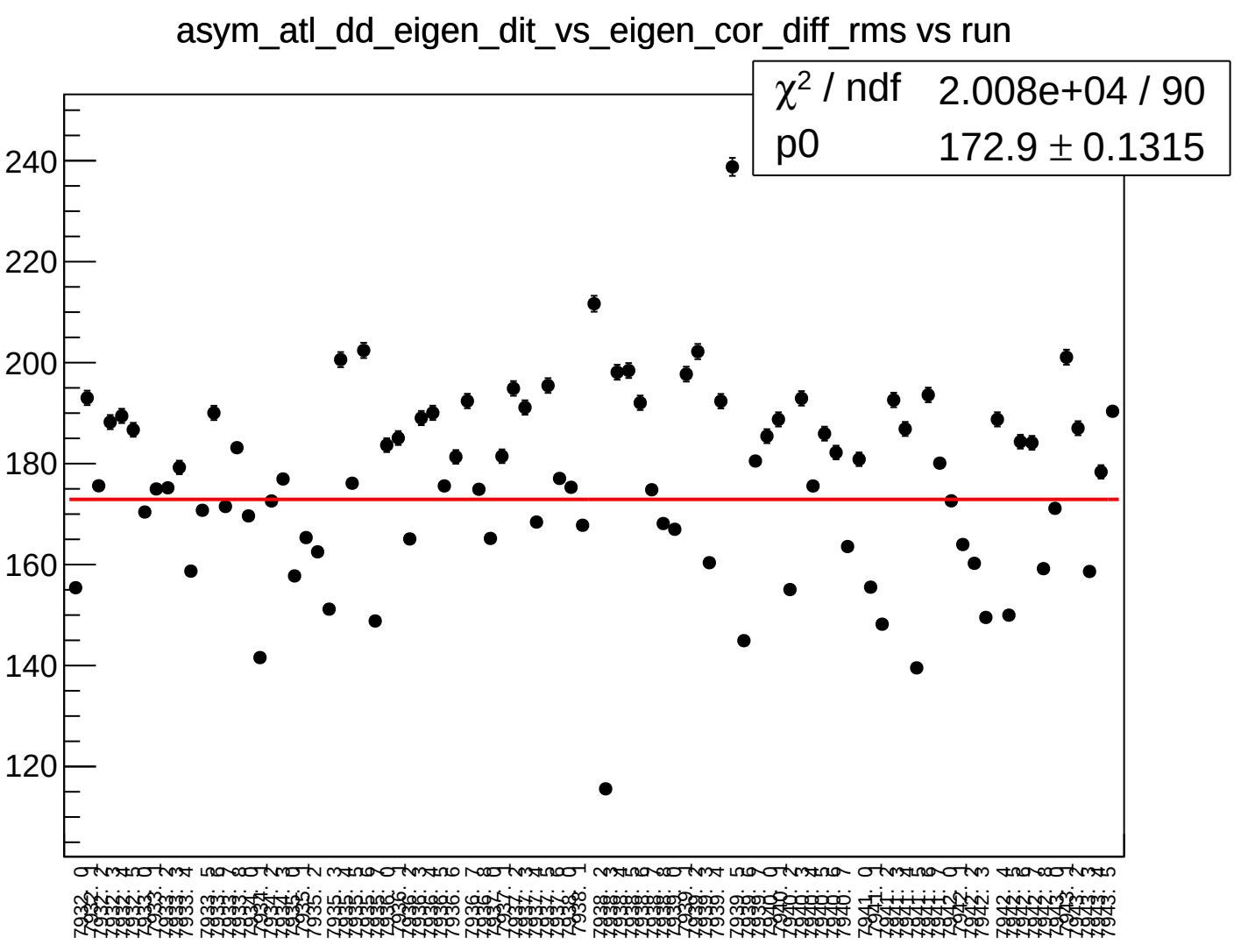

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6474 / 90
p0 0.007804 ± 5.913e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

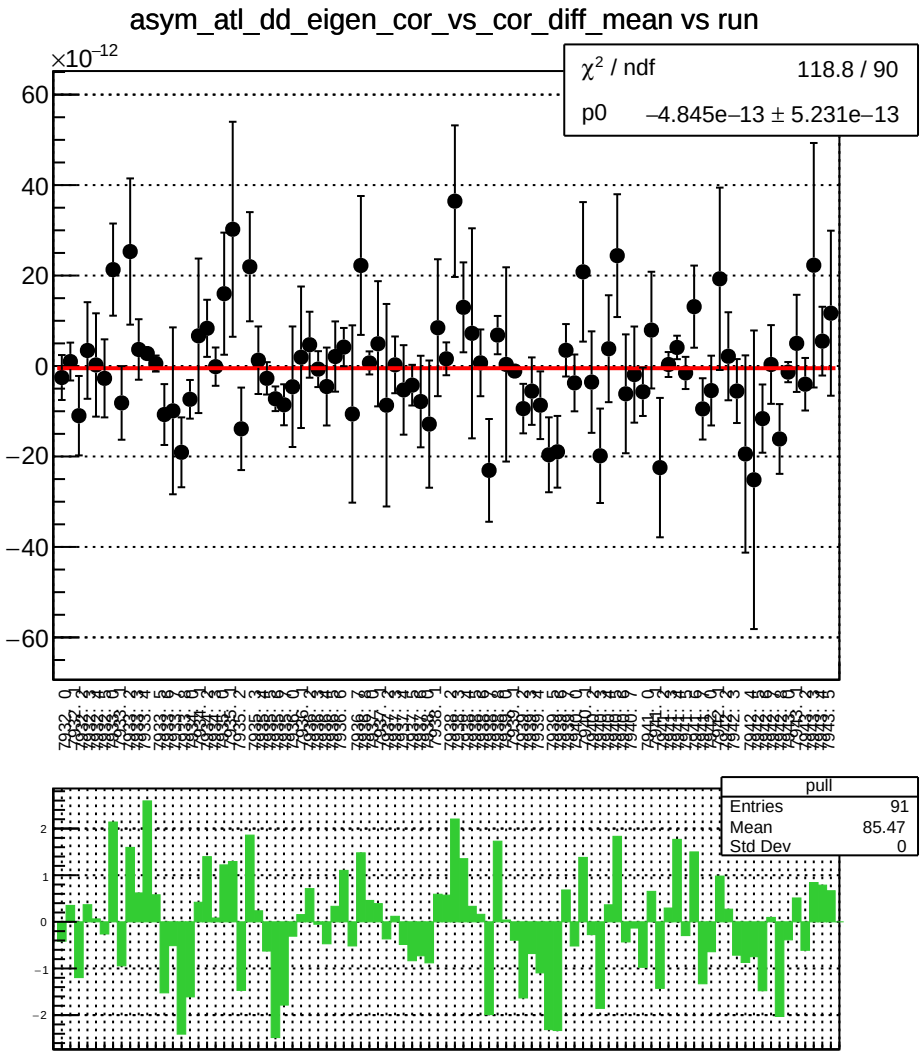

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.04067 ± 0.186
pull
Entries 91
Mean 115.9
Std Dev 0

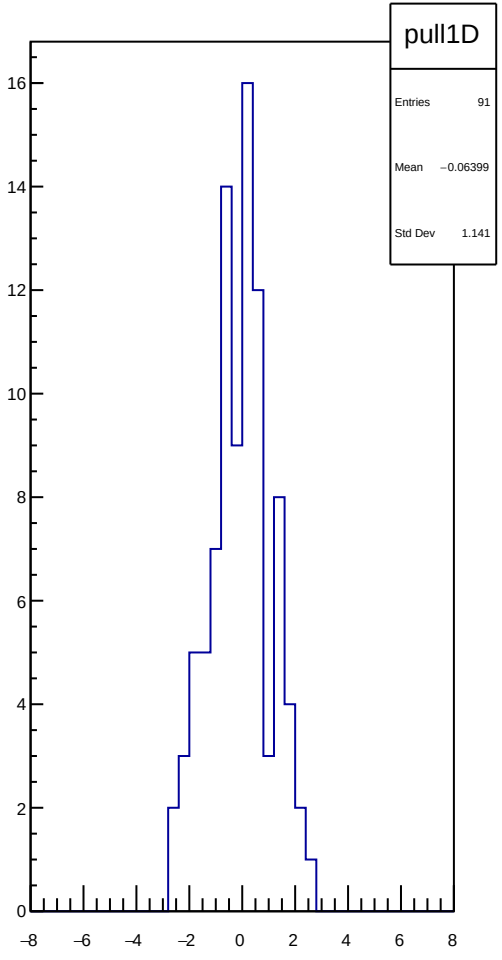

pull1D
Entries 91
Mean −0.01324
Std Dev 0.9545

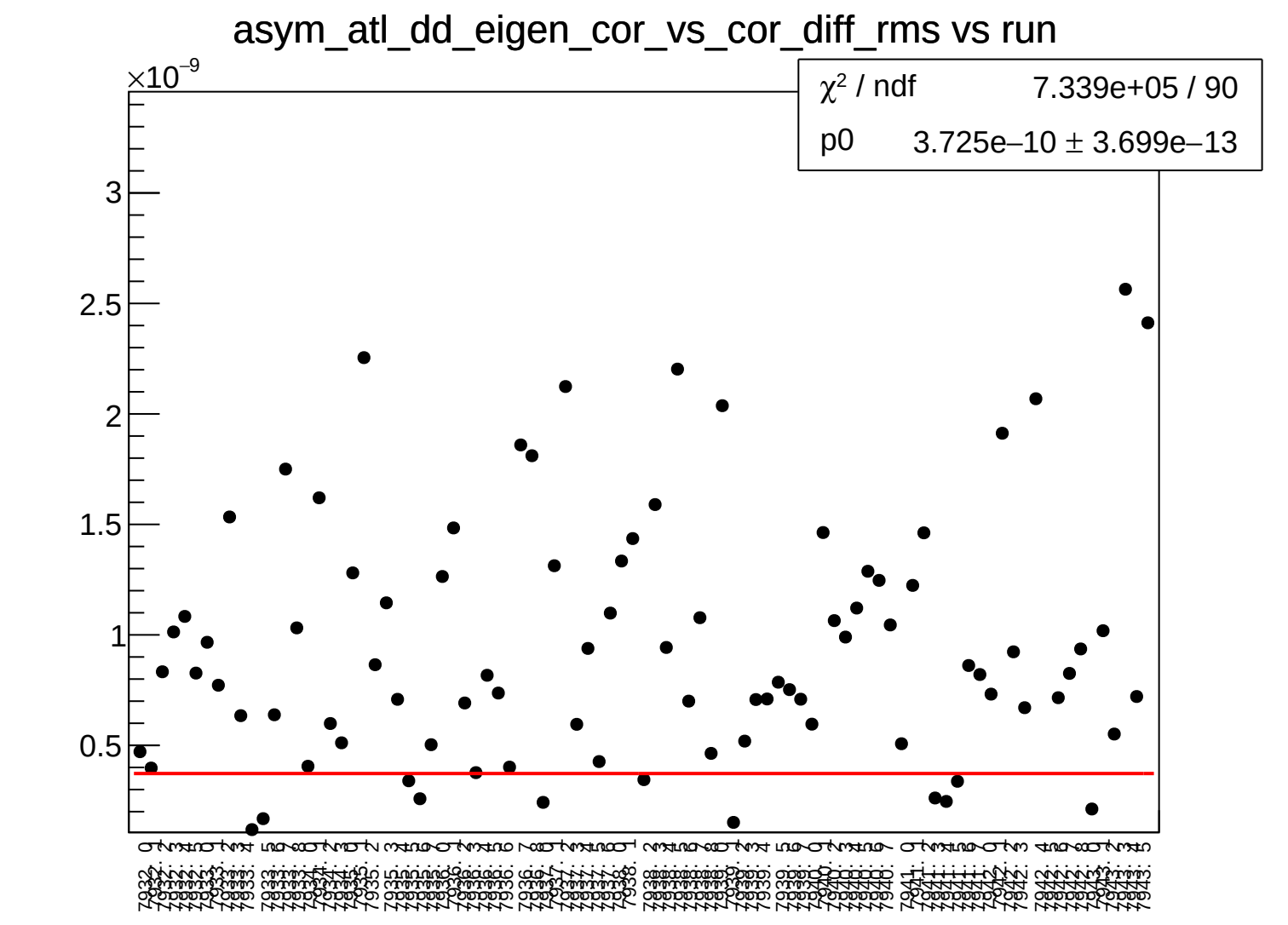

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.008e+04 / 90
p0 172.9 ± 0.1315
240
220
200
180
160
140
120

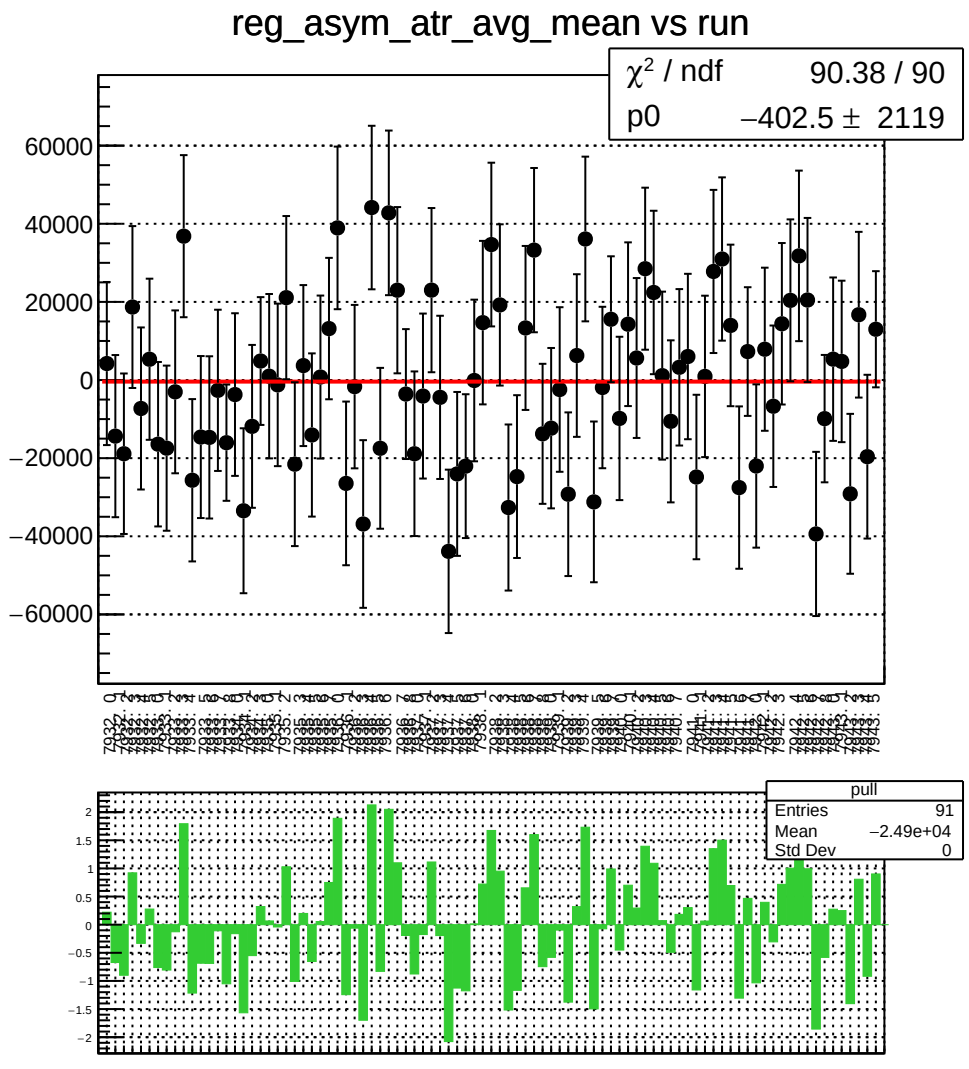

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.04067 ± 0.186
pull
Entries 91
Mean 115.9
Std Dev 0
pull1D
Entries 91
Mean −0.01324
Std Dev 0.9545

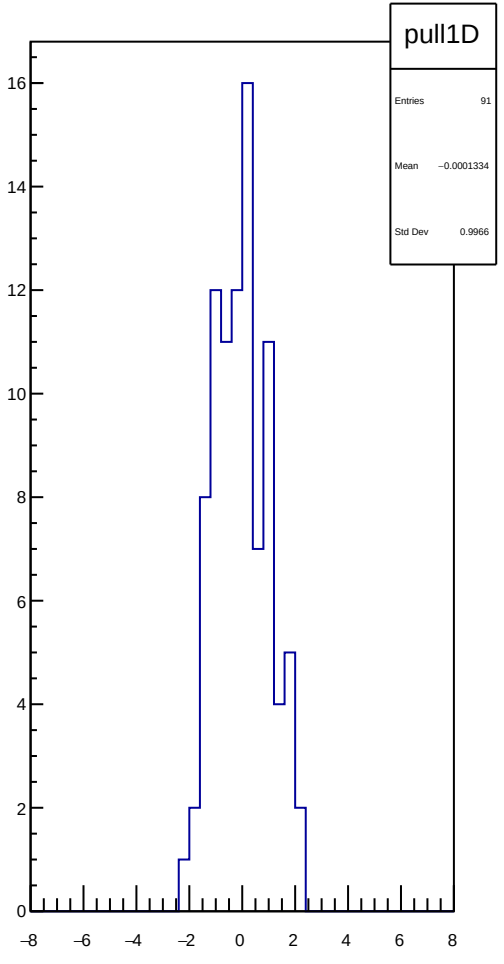

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.008e+04 / 90
p0 172.9 ± 0.1315
240
220
200
180
160
140
120

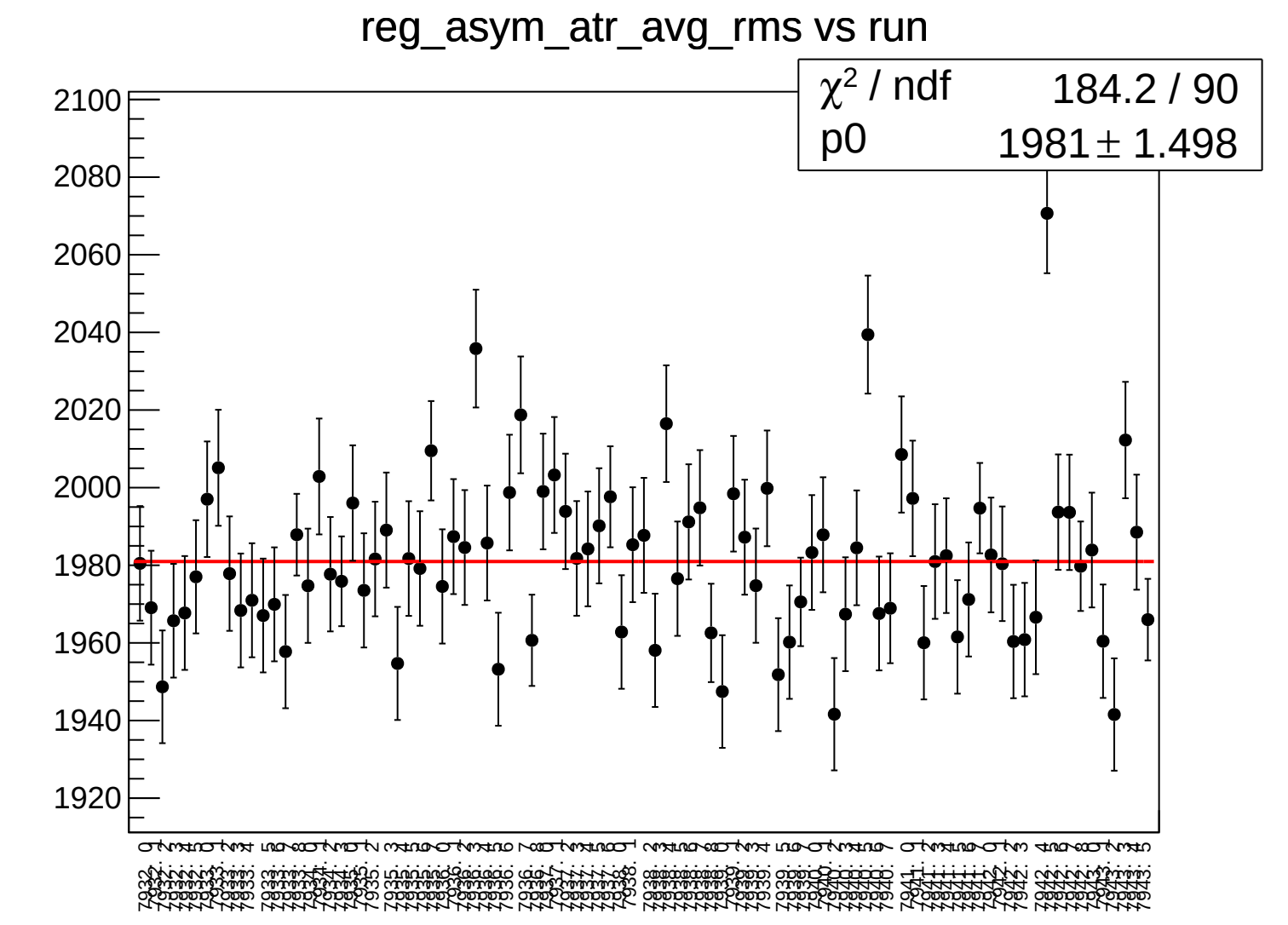

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 118.8 / 90
p0 −4.845e−13 ± 5.231e−13
pull
Entries 91
Mean 85.47
Std Dev 0

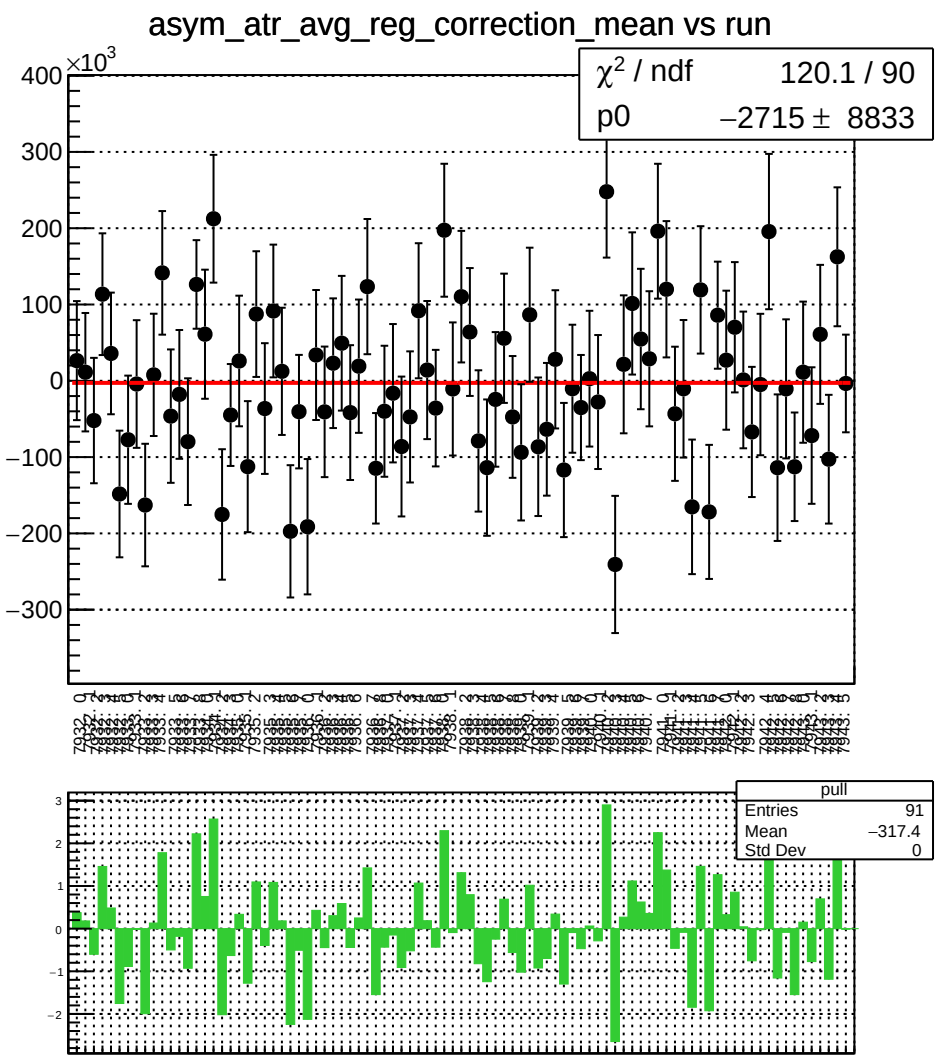

pull1D
Entries 91
Mean −0.06399
Std Dev 1.141

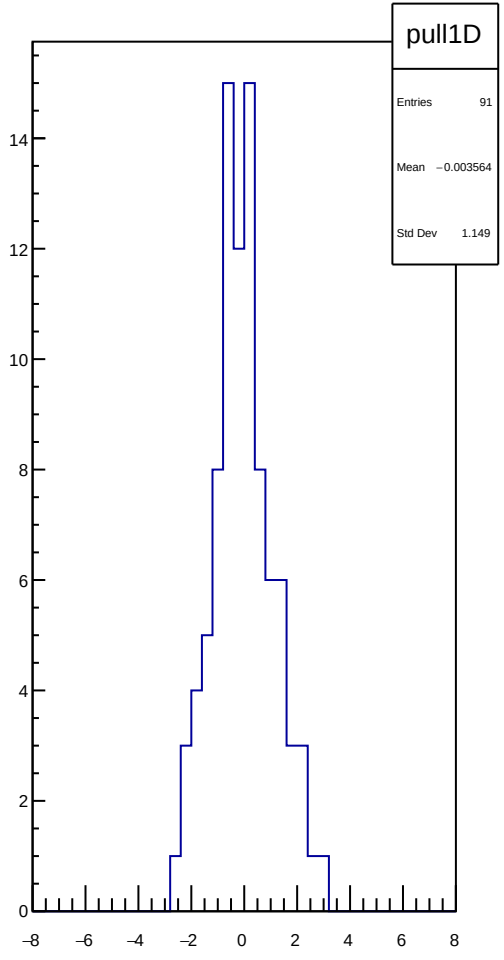

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.339e+05 / 90
p0 3.725e−10 ± 3.699e−13
3
2.5
2
1.5
1
0.5

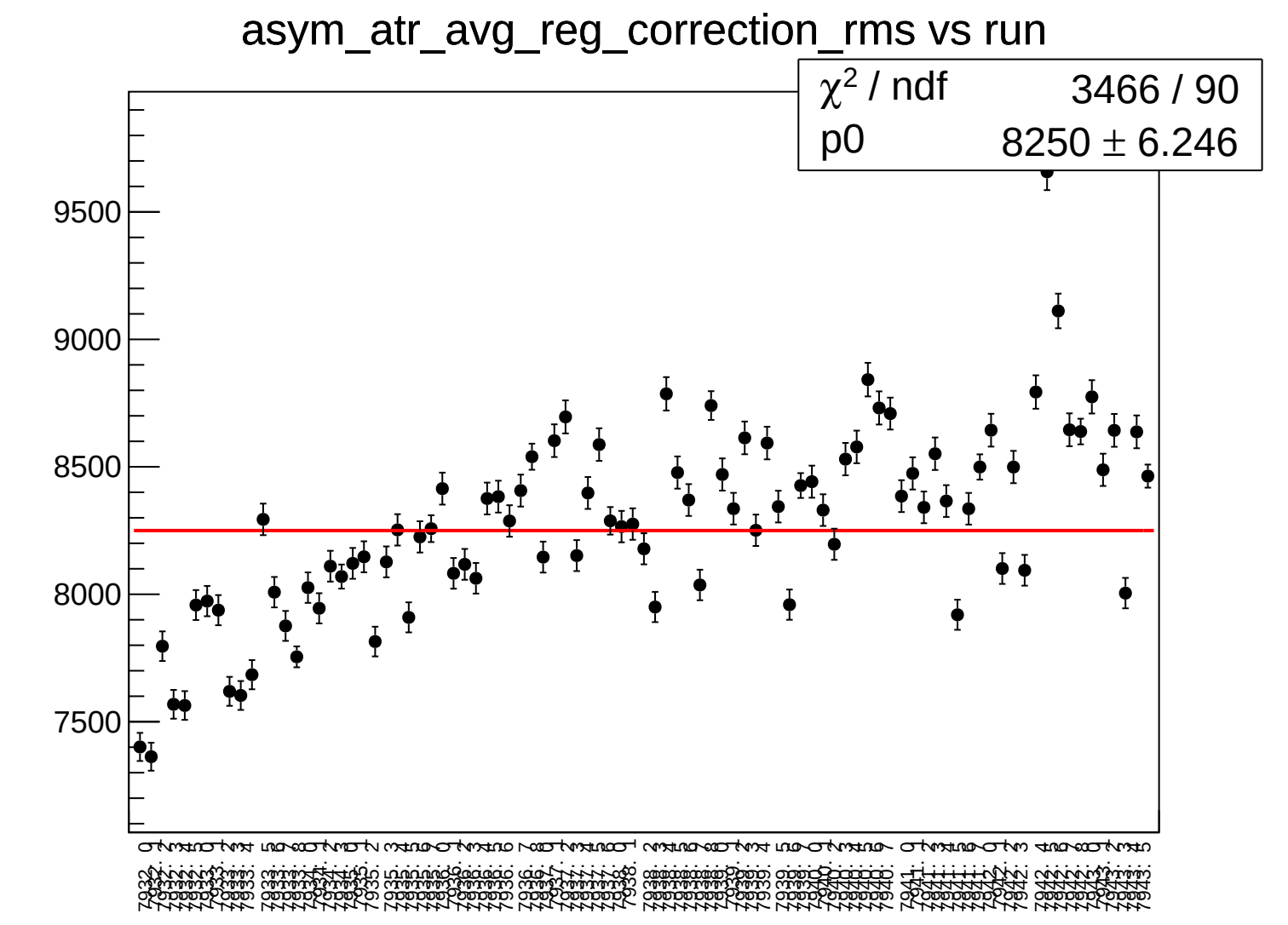

reg_asym_atr_avg_mean vs run
χ² / ndf 90.38 / 90
p0 −402.5 ± 2119
pull
Entries 91
Mean −2.49e+04
Std Dev 0

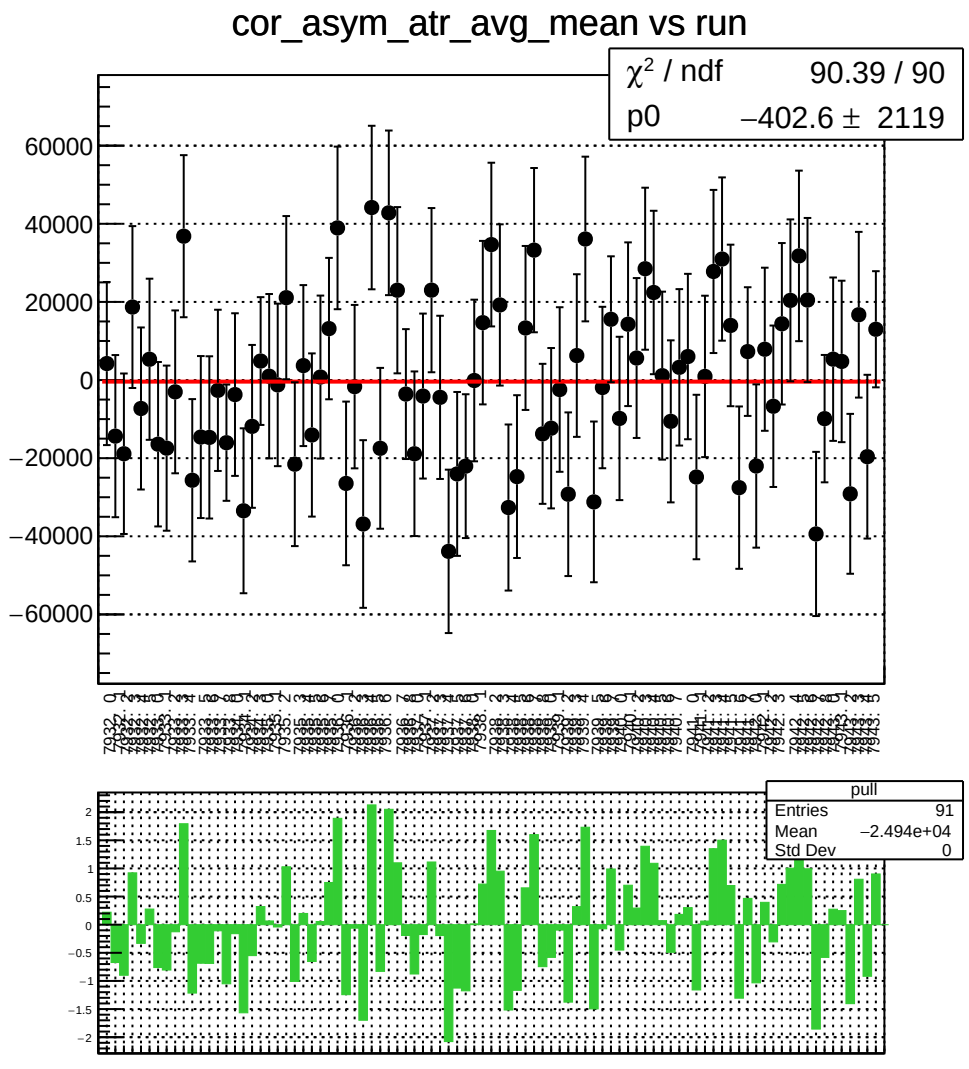

pull1D
Entries 91
Mean −0.0001334
Std Dev 0.9966

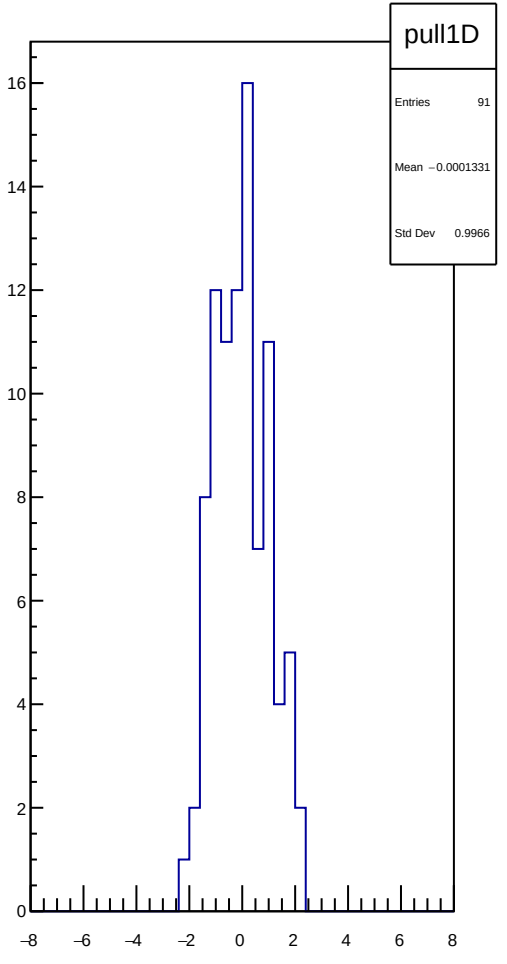

reg_asym_atr_avg_rms vs run
χ² / ndf 184.2 / 90
p0 1981 ± 1.498
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

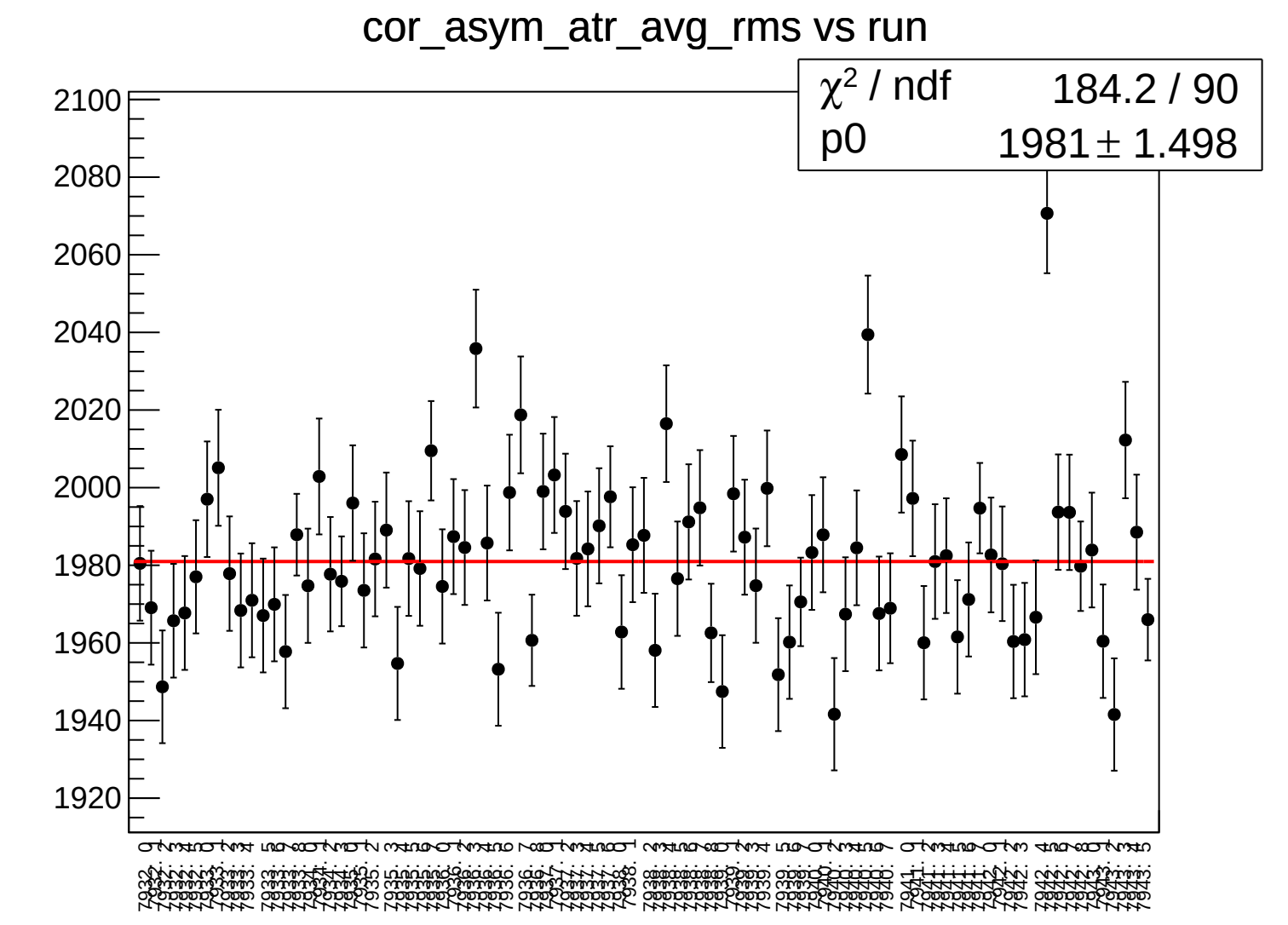

asym_atr_avg_reg_correction_mean vs run
χ² / ndf 120.1 / 90
p0 −2715 ± 8833
×10³
400
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −317.4
Std Dev 0
3
2
1
0
−1
−2

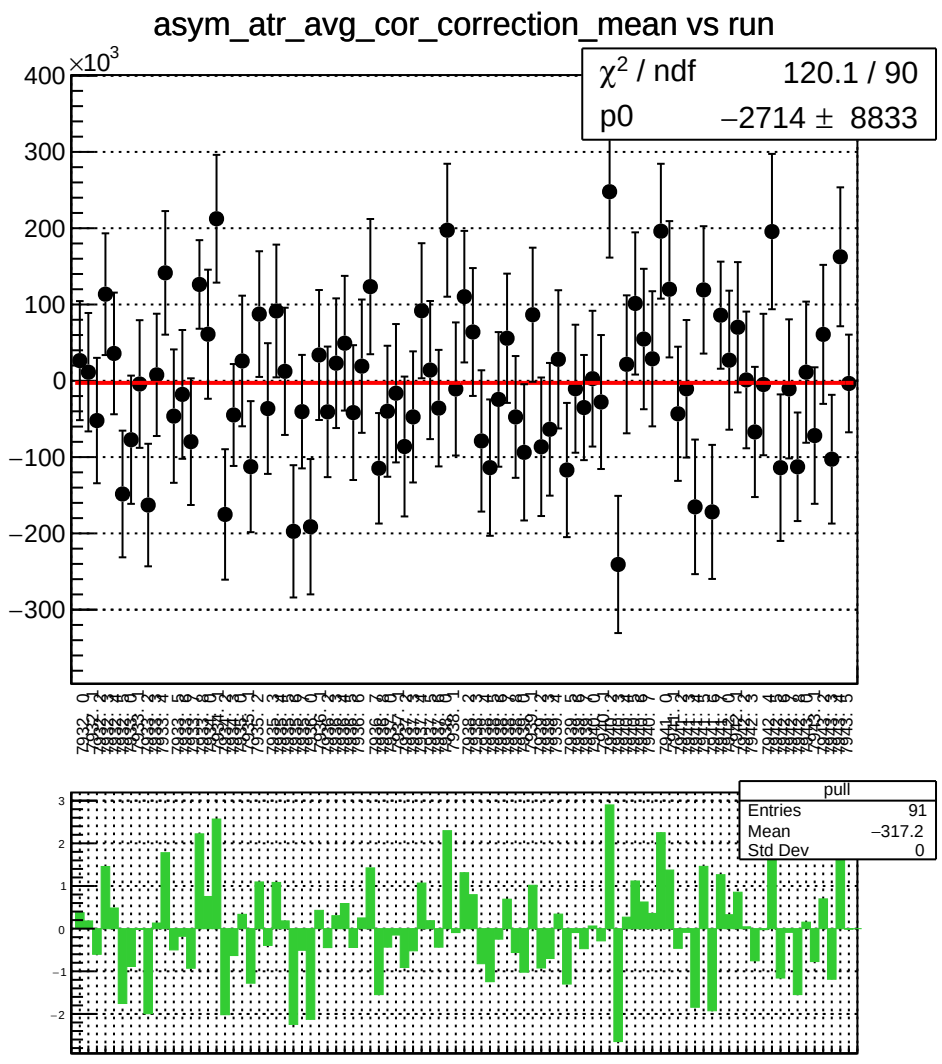

pull1D
Entries 91
Mean −0.003564
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

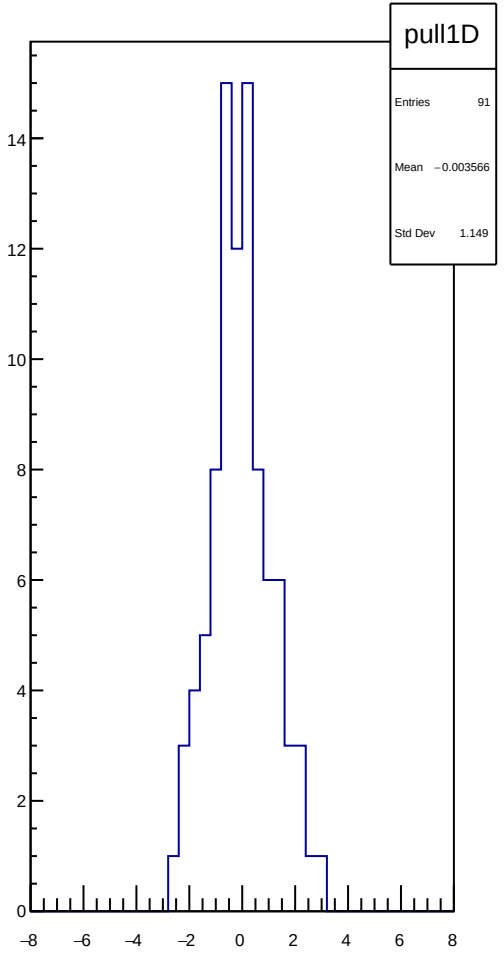

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 3466 / 90
p0 8250 ± 6.246
9500
9000
8500
8000
7500

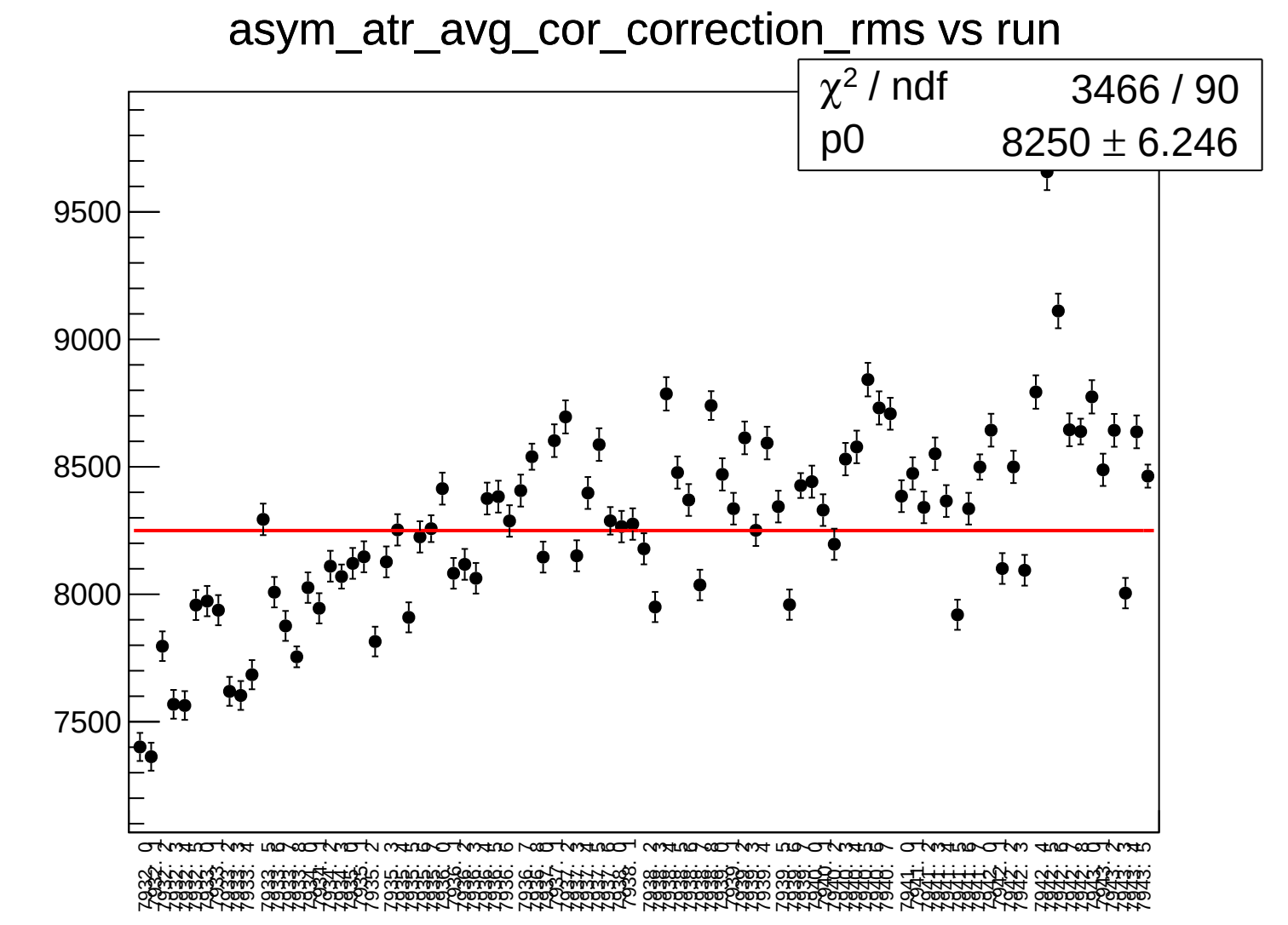

cor_asym_atr_avg_mean vs run
χ² / ndf 90.39 / 90
p0 −402.6 ± 2119
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2.494e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

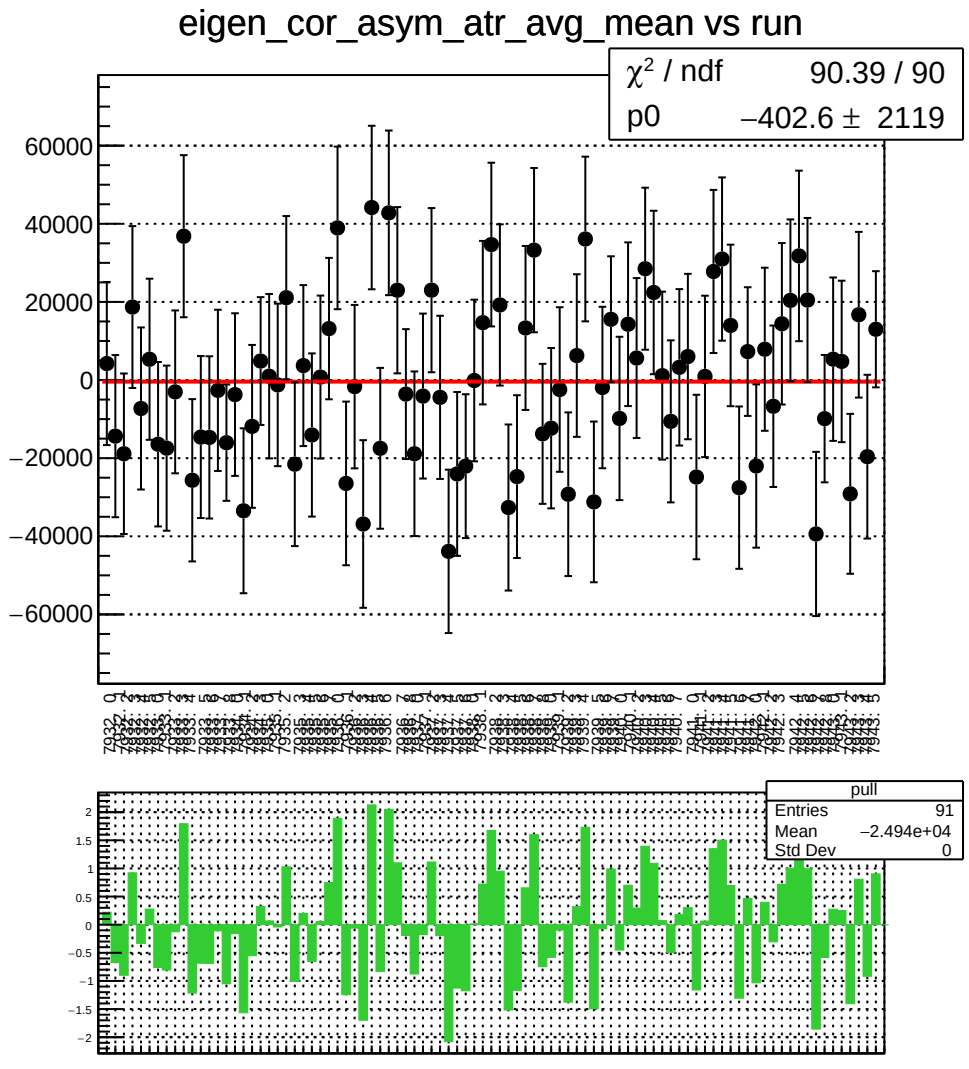

pull1D
Entries 91
Mean −0.0001331
Std Dev 0.9966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

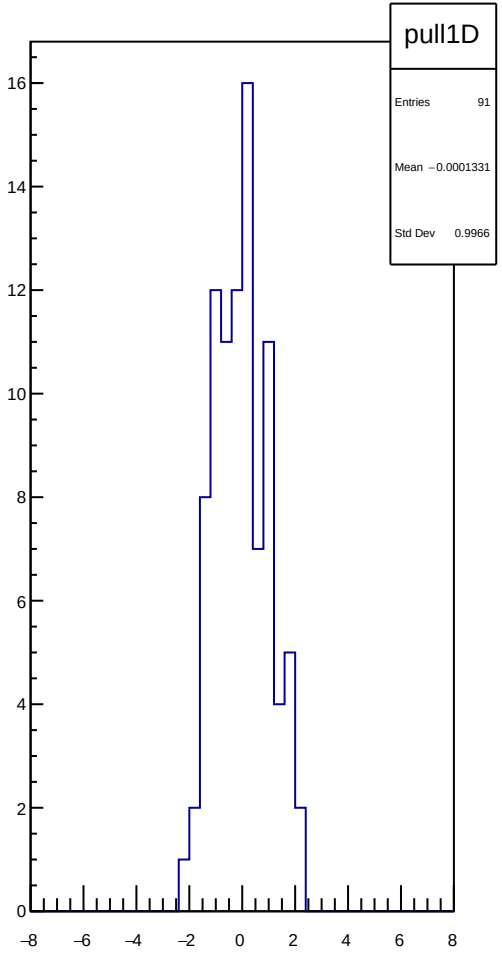

cor_asym_atr_avg_rms vs run
χ² / ndf 184.2 / 90
p0 1981 ± 1.498
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

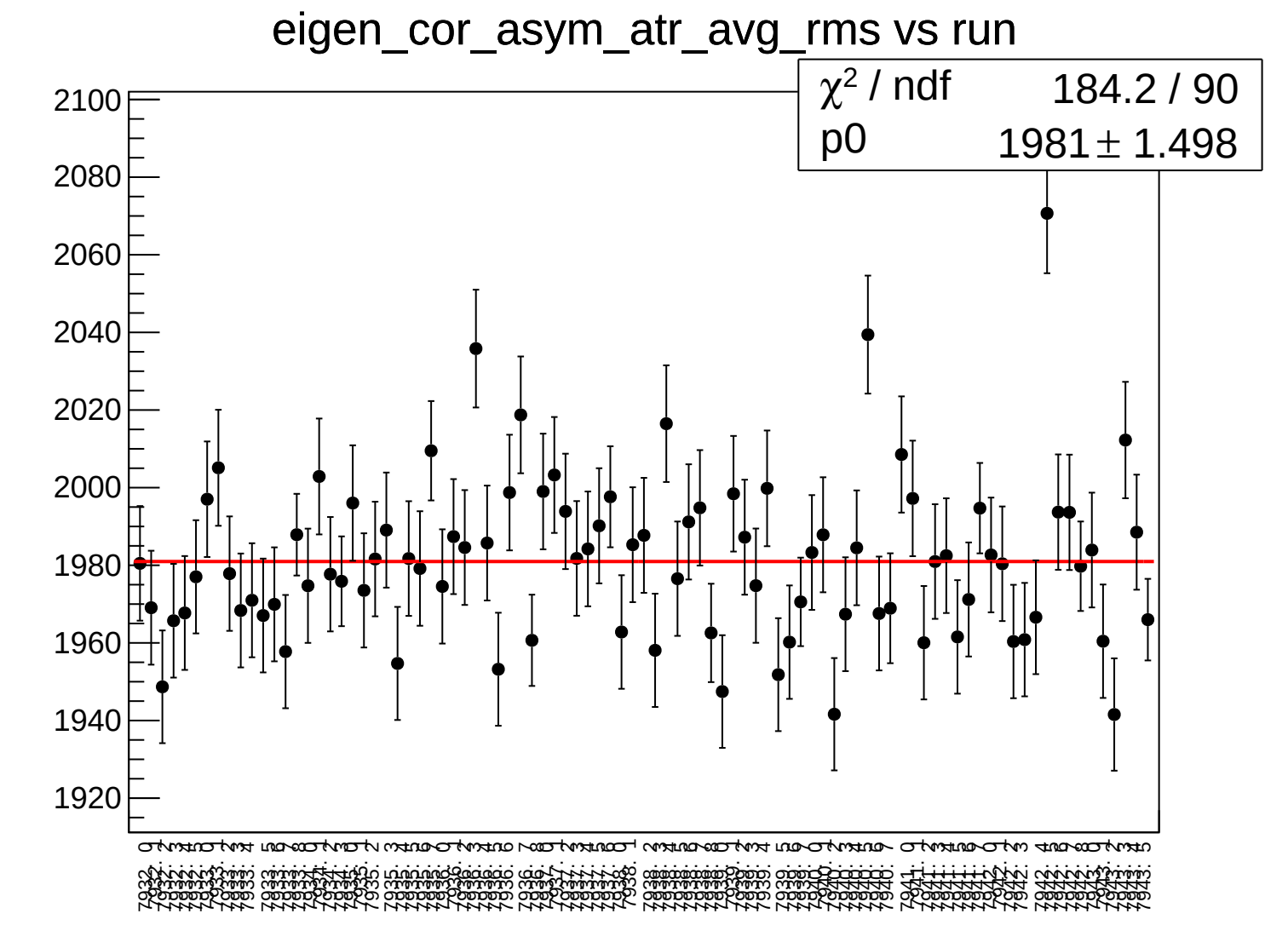

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 120.1 / 90
p0 −2714 ± 8833
×10³
pull
Entries 91
Mean −317.2
Std Dev 0

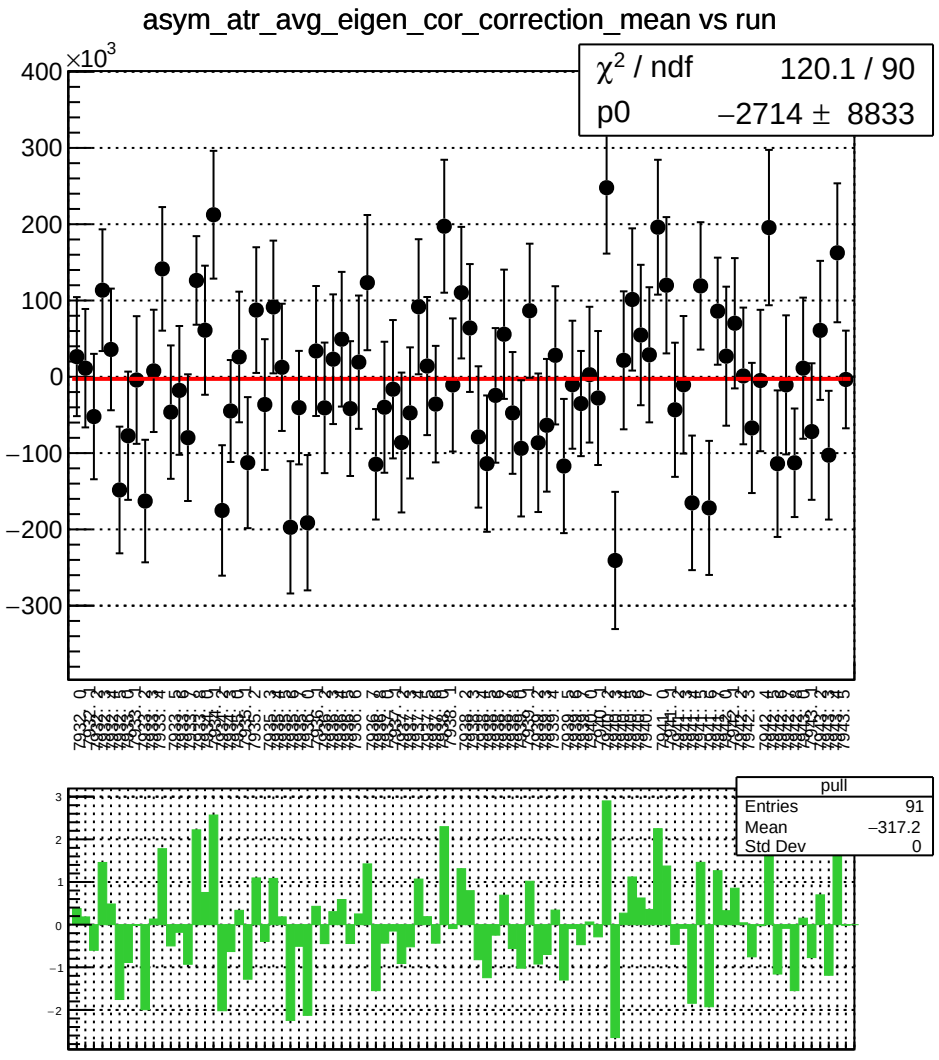

pull1D
Entries 91
Mean −0.003566
Std Dev 1.149

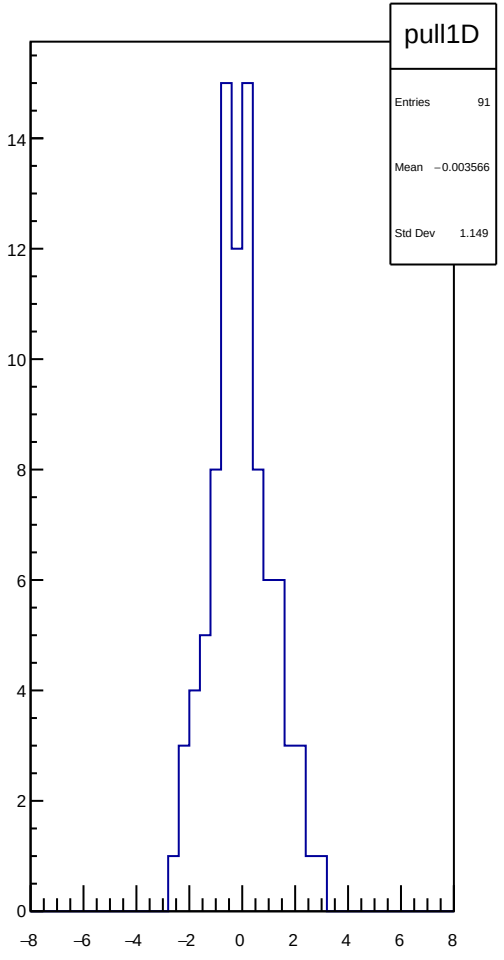

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 3466 / 90
p0 8250 ± 6.246
9500
9000
8500
8000
7500

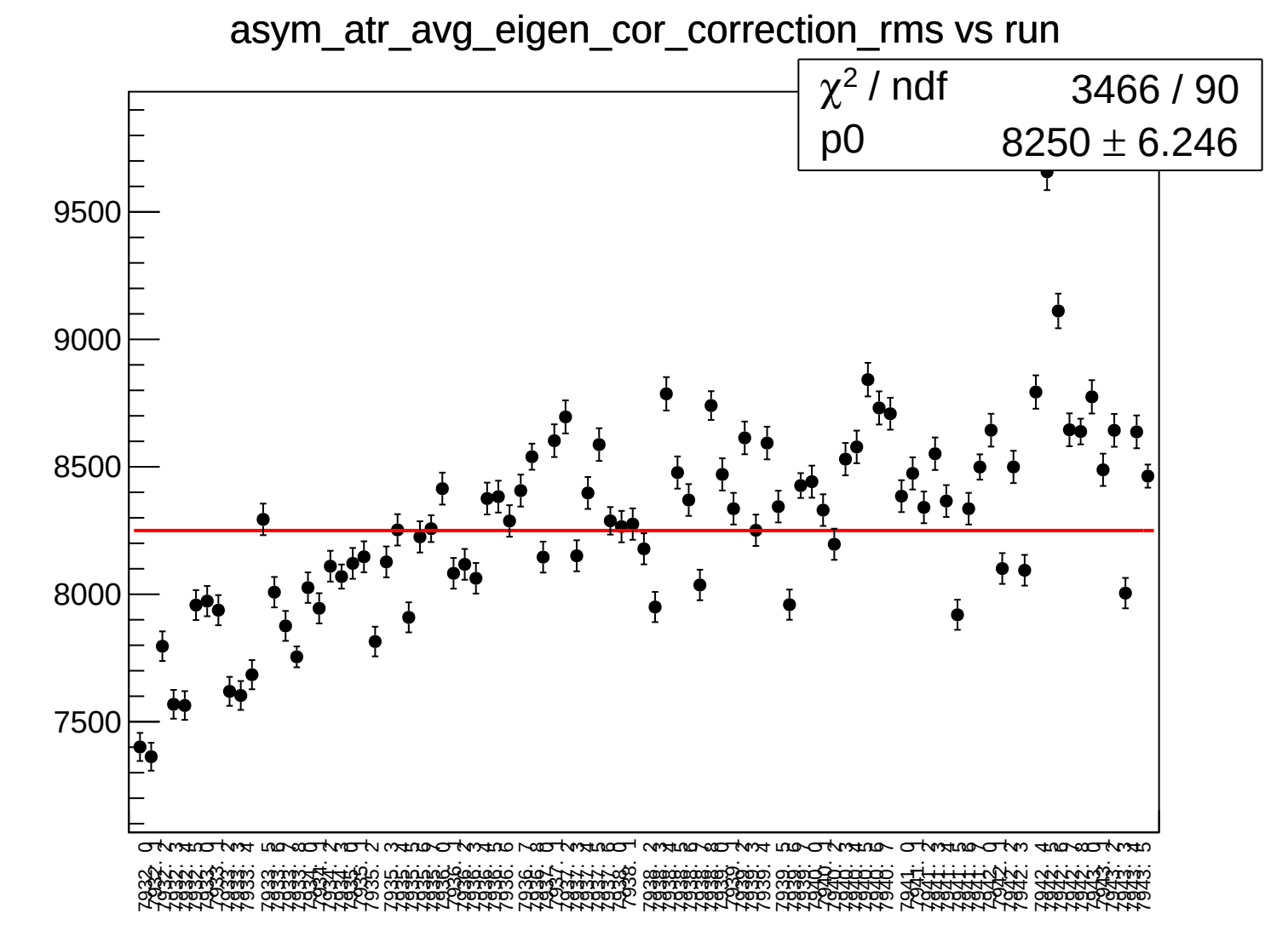

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 90.39 / 90
p0 −402.6 ± 2119
pull
Entries 91
Mean −2.494e+04
Std Dev 0

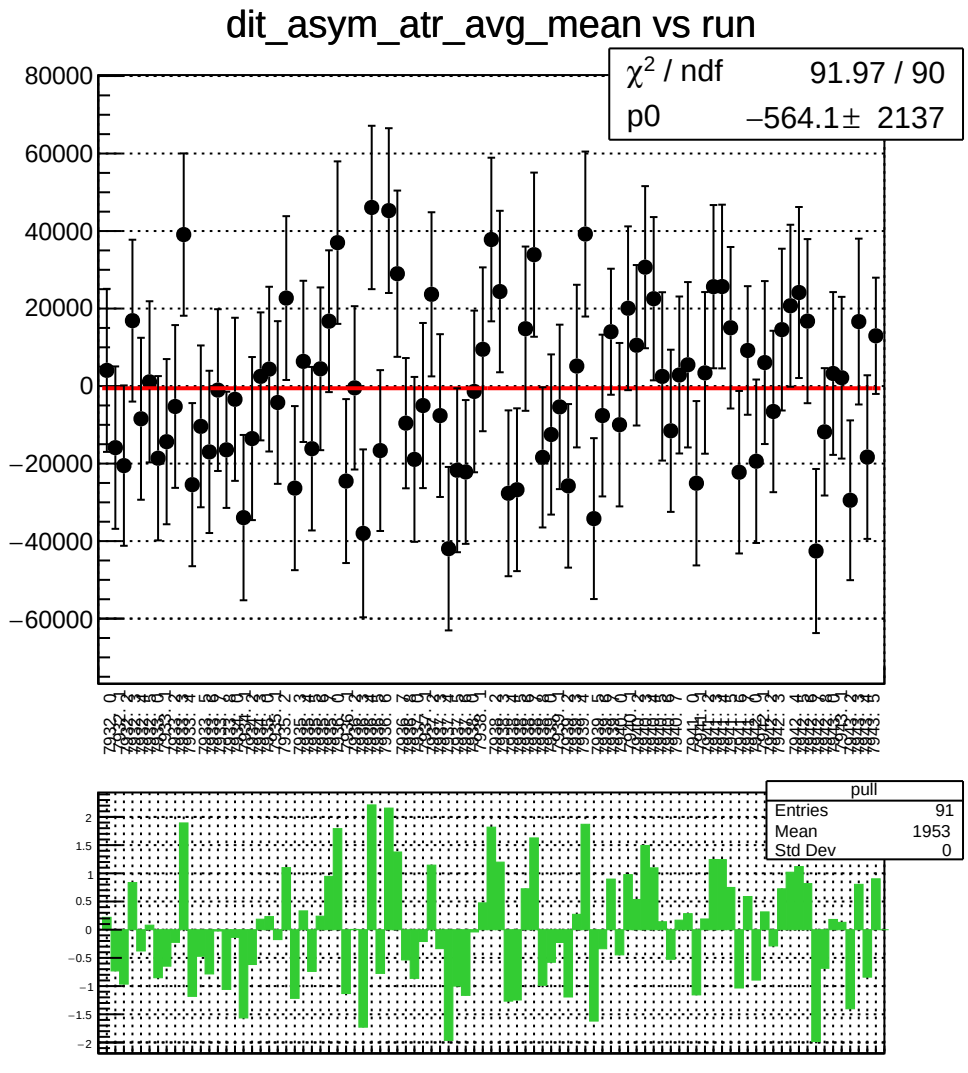

pull1D
Entries 91
Mean −0.0001331
Std Dev 0.9966

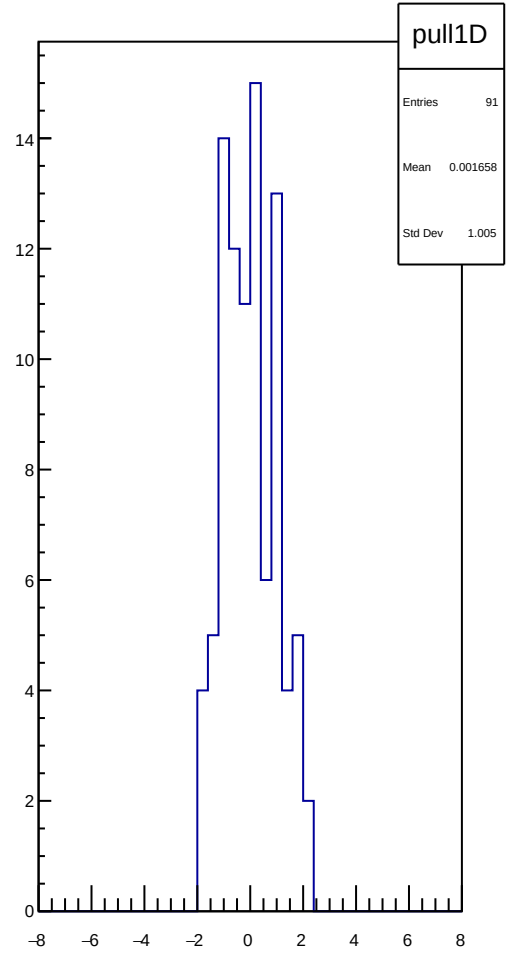

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 184.2 / 90
p0 1981 ± 1.498
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

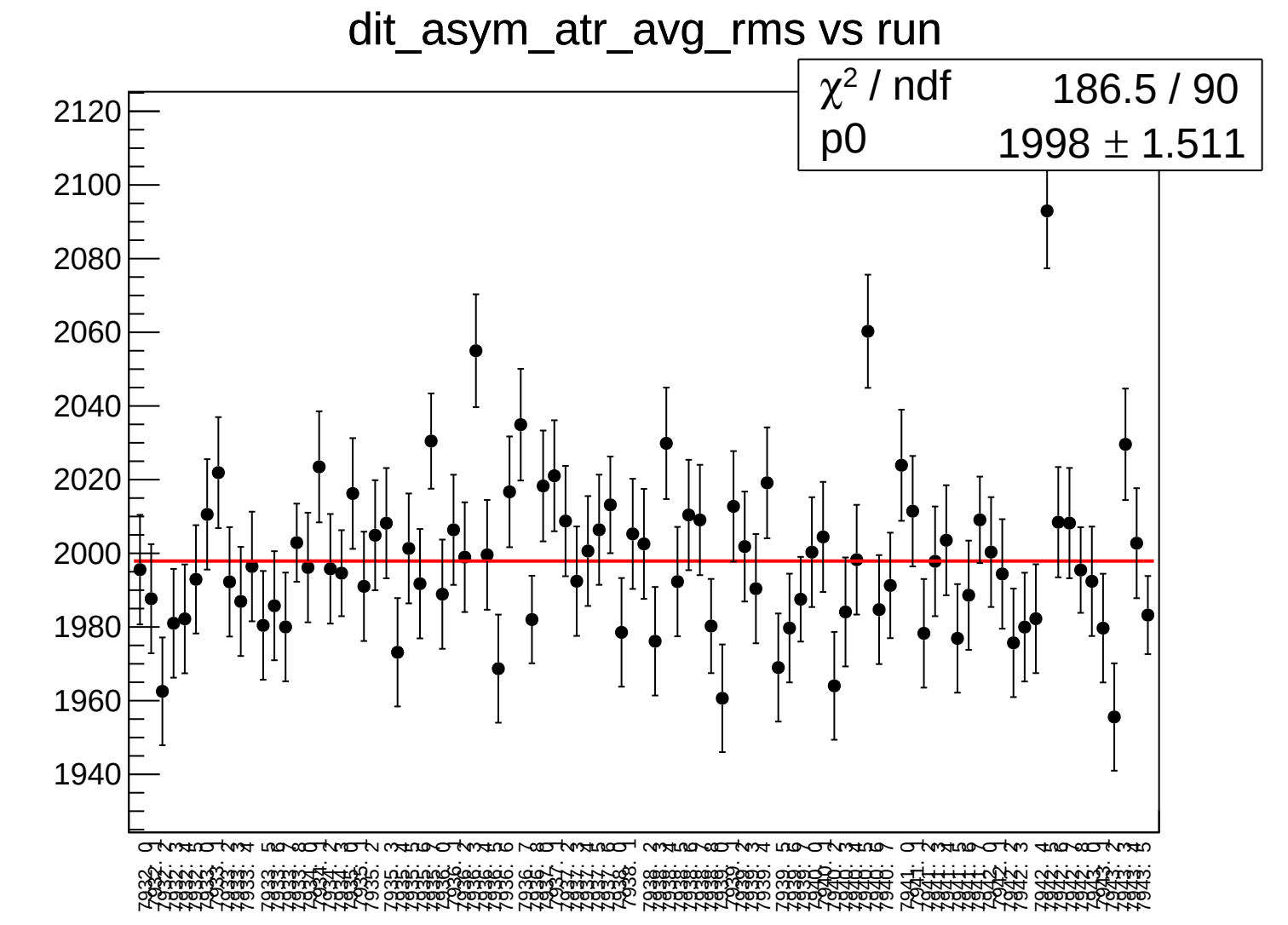

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.1 / 90
p0 −2714 ± 8833
×10³
pull
Entries 91
Mean −317.2
Std Dev 0

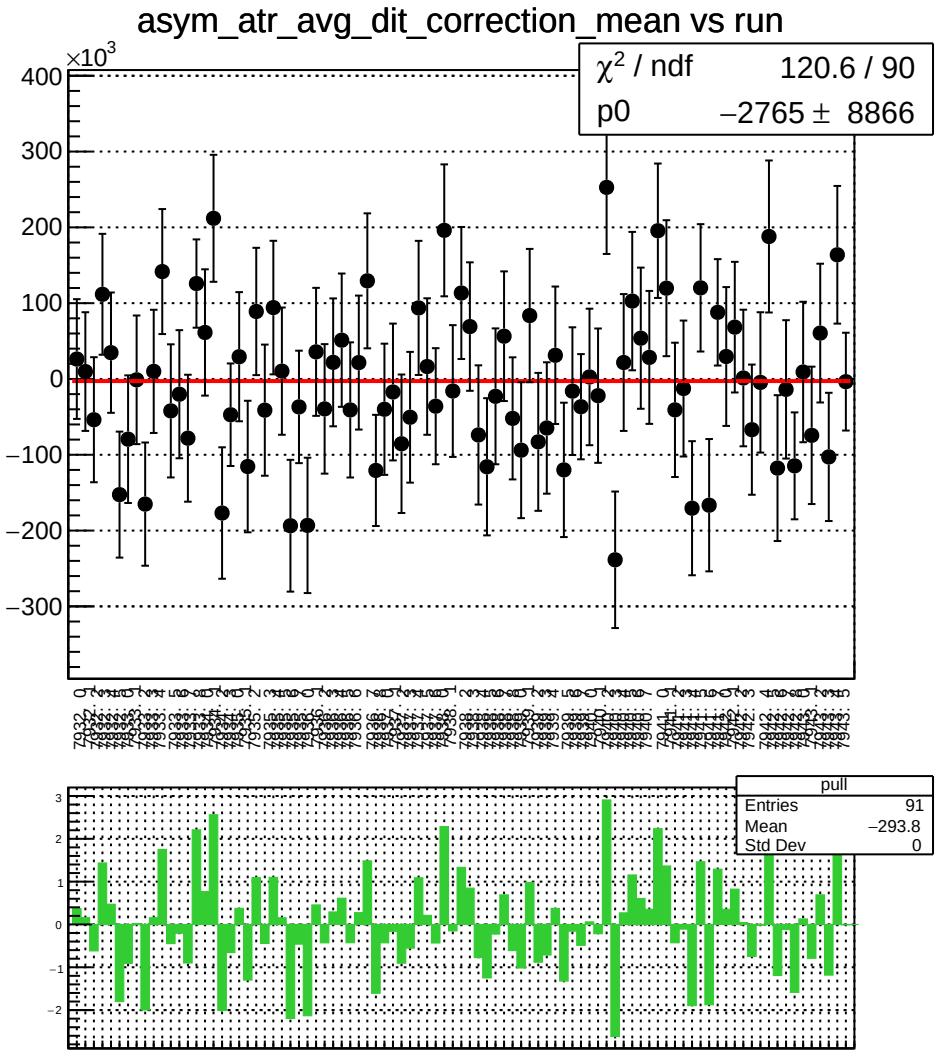

pull1D
Entries 91
Mean −0.003566
Std Dev 1.149

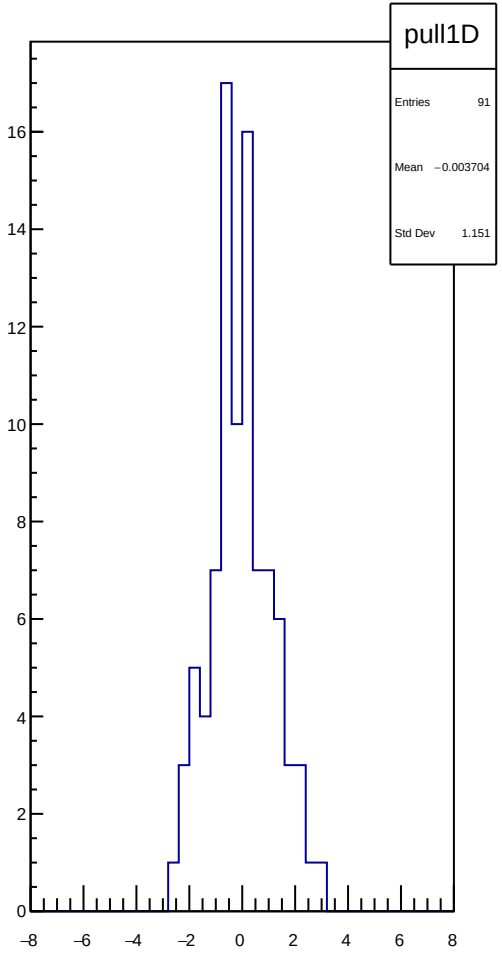

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3466 / 90
p0 8250 ± 6.246
9500
9000
8500
8000
7500

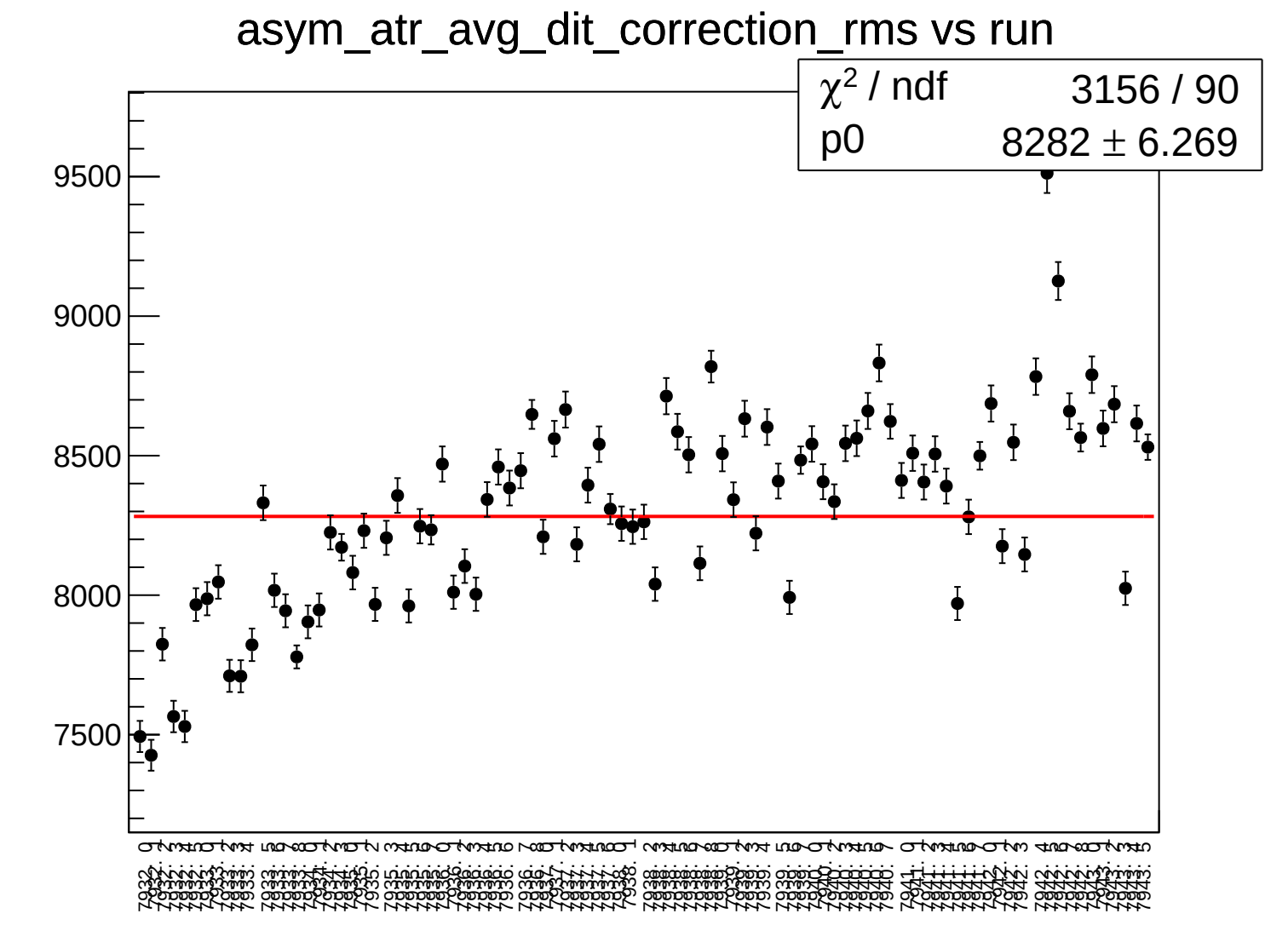

dit_asym_atr_avg_mean vs run
χ² / ndf 91.97 / 90
p0 −564.1± 2137
pull
Entries 91
Mean 1953
Std Dev 0

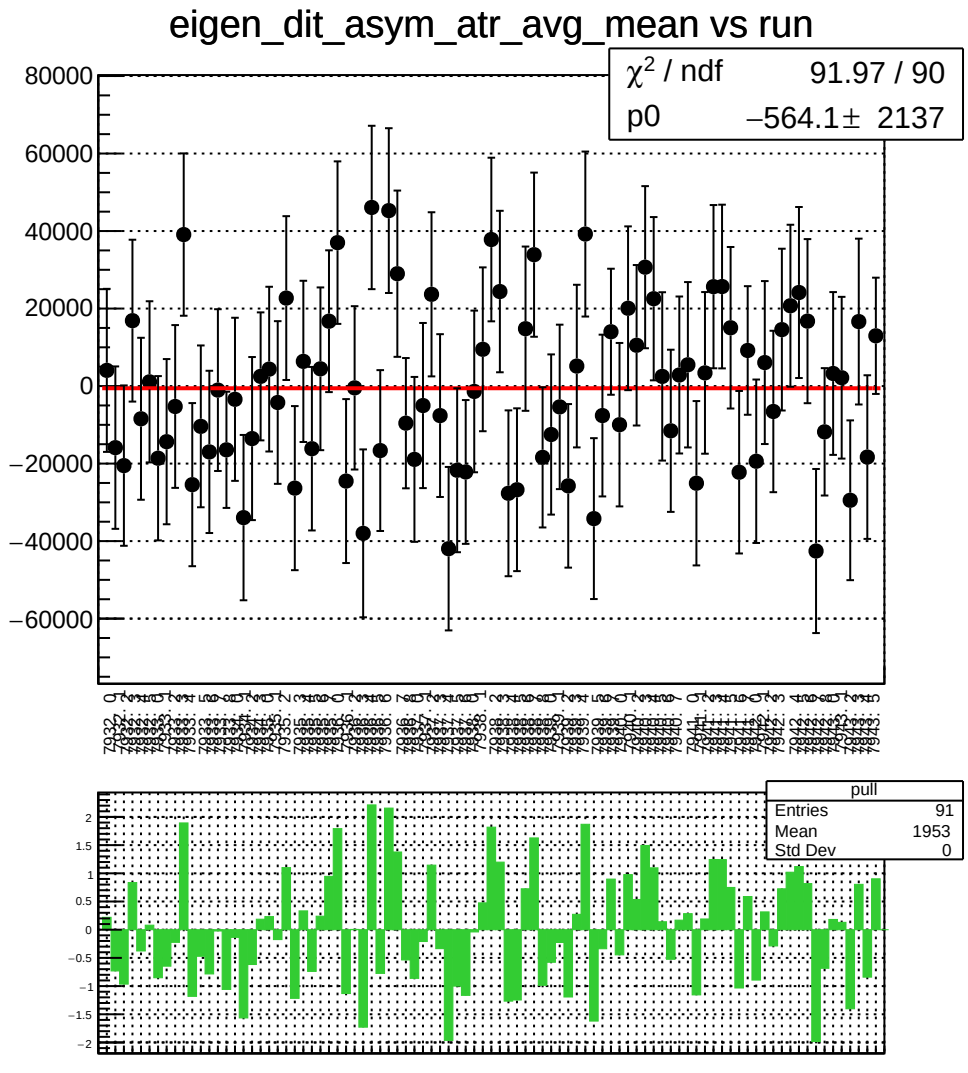

pull1D
Entries 91
Mean 0.001658
Std Dev 1.005

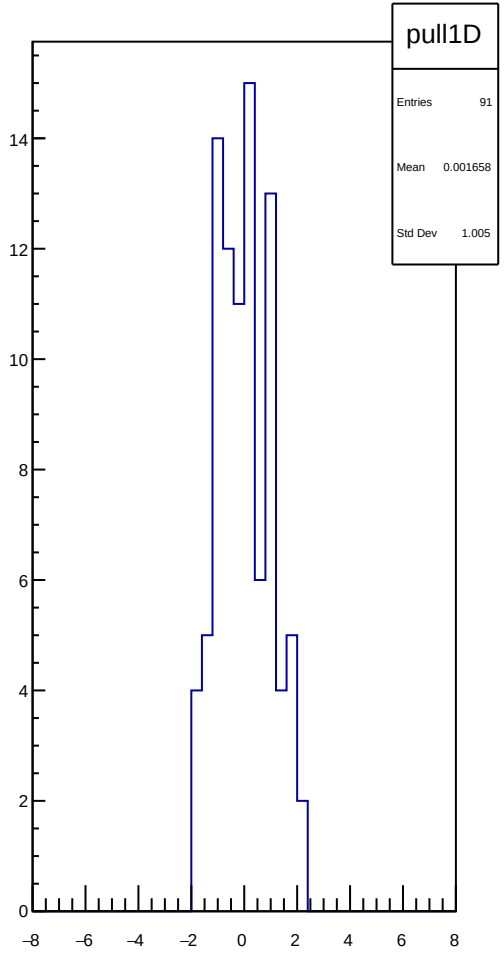

dit_asym_atr_avg_rms vs run
χ² / ndf 186.5 / 90
p0 1998 ± 1.511
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

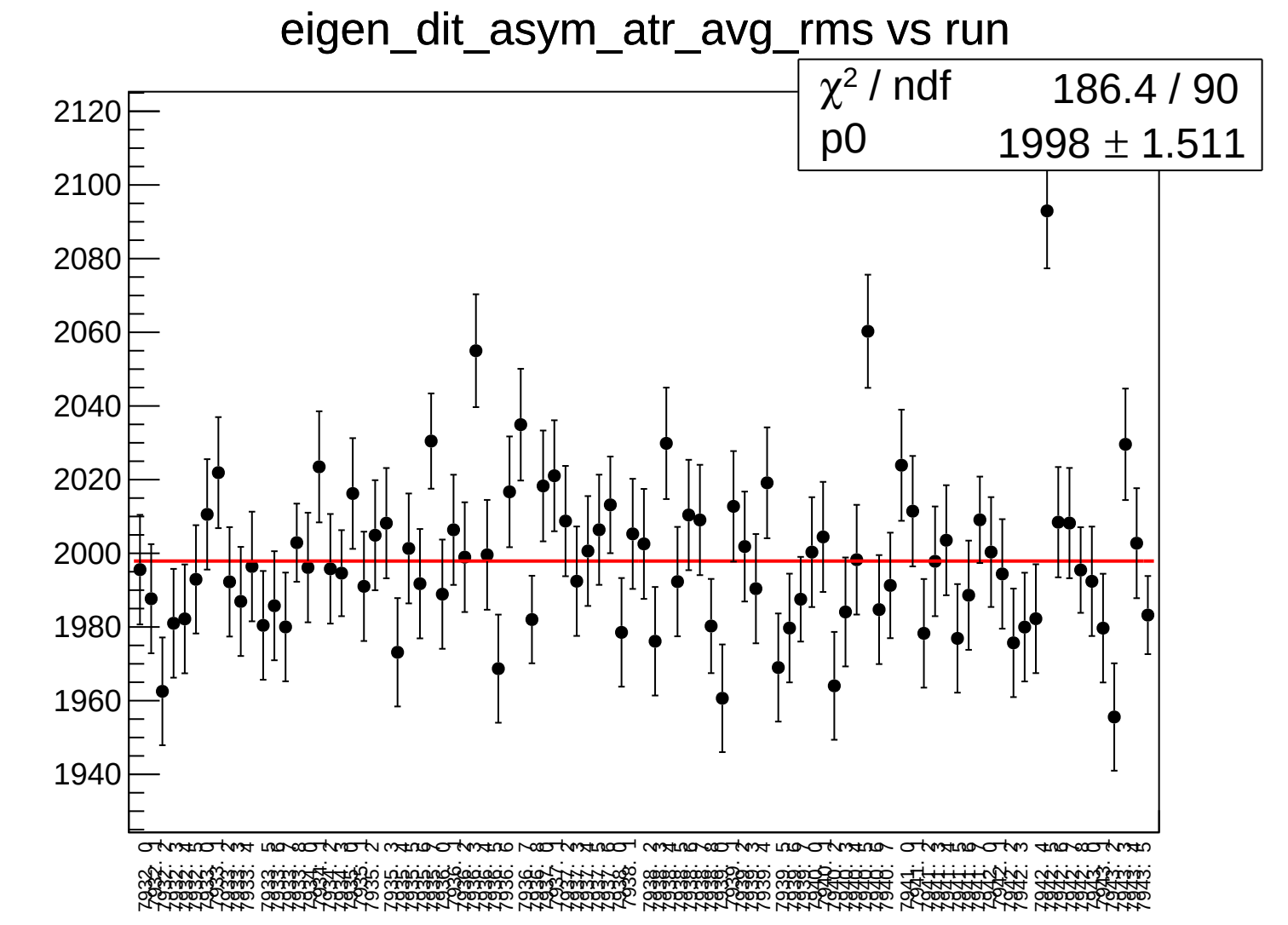

asym_atr_avg_dit_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 120.6 / 90
p0 −2765 ± 8866
pull
Entries 91
Mean −293.8
Std Dev 0
3
2
1
0
−1
−2

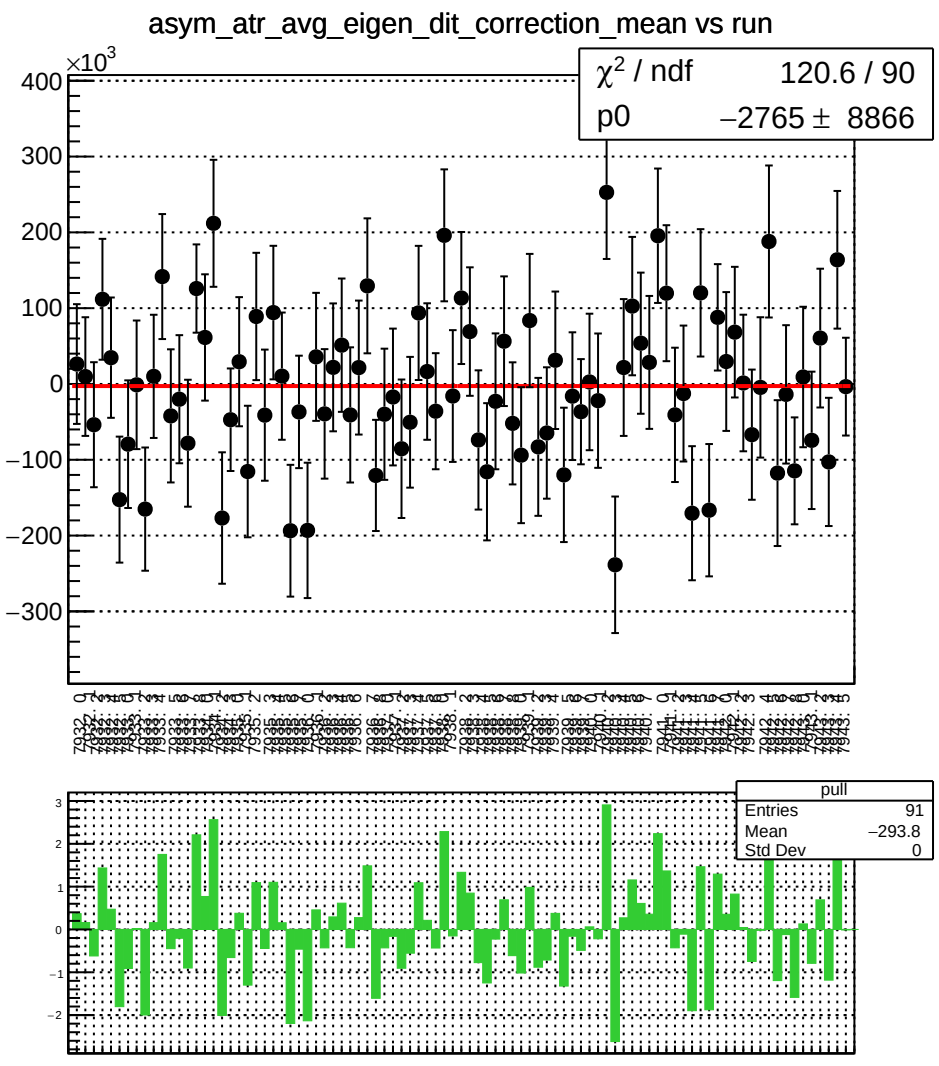

pull1D
Entries 91
Mean −0.003704
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

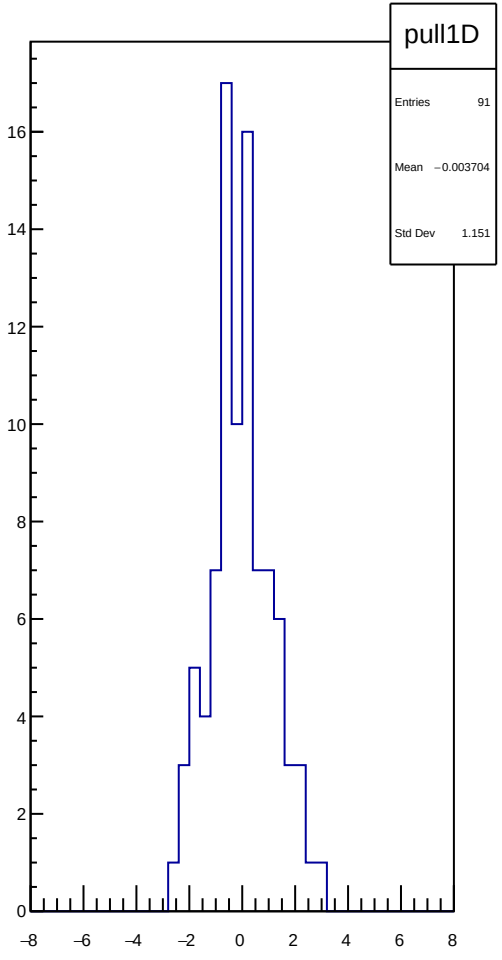

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 3156 / 90
p0 8282 ± 6.269
9500
9000
8500
8000
7500

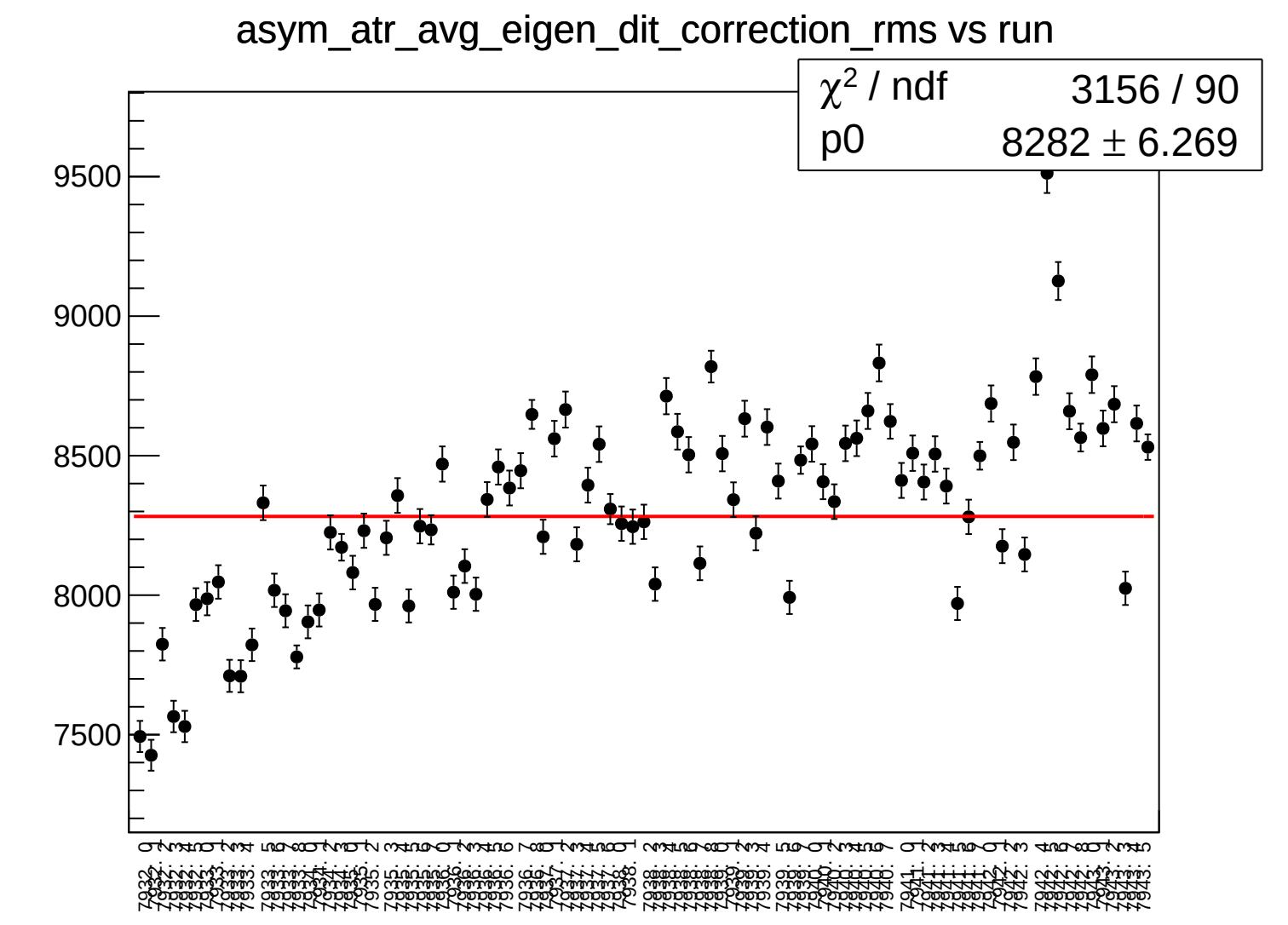

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 91.97 / 90
p0 −564.1± 2137
pull
Entries 91
Mean 1953
Std Dev 0

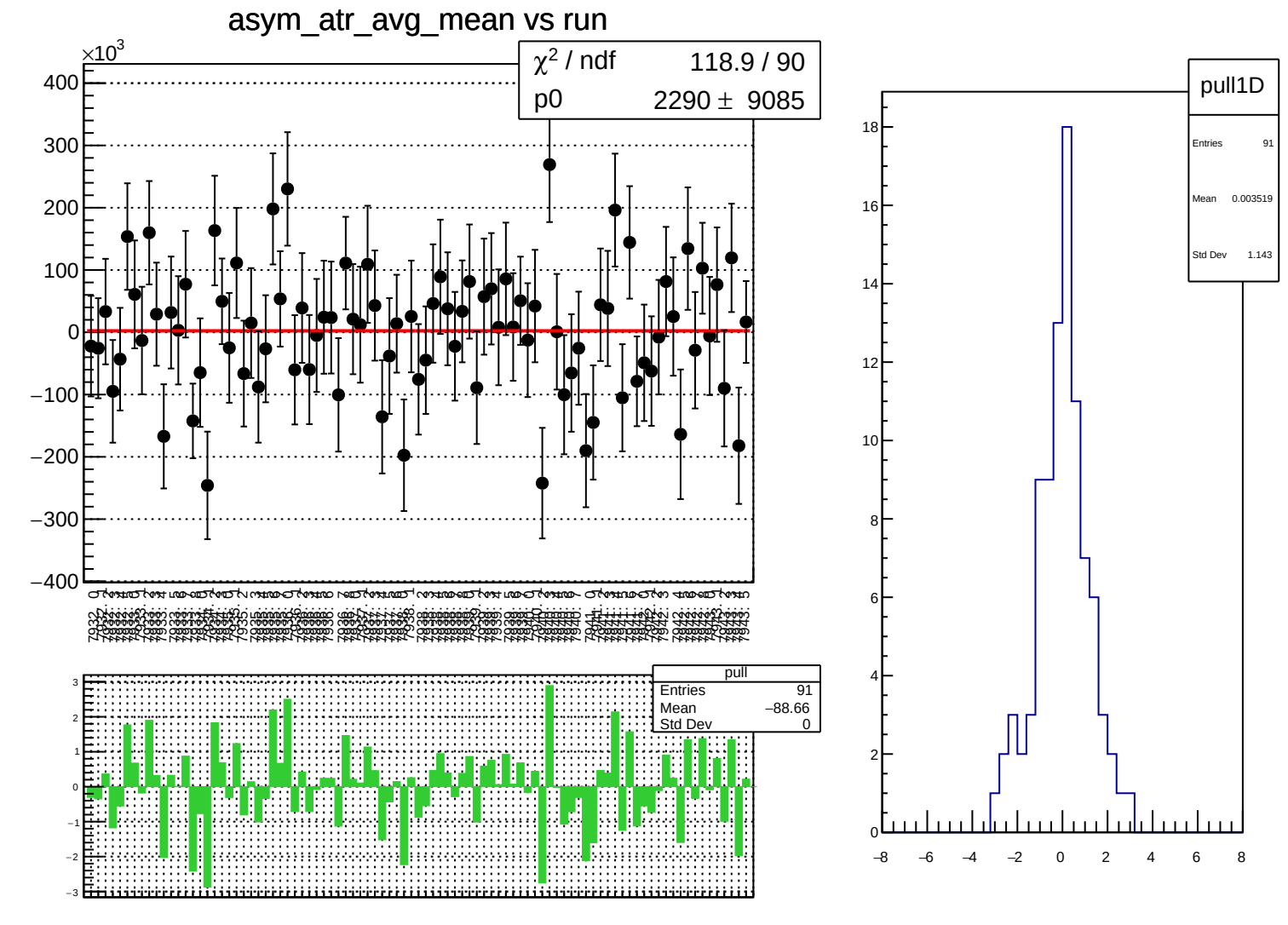

pull1D
Entries 91
Mean 0.001658
Std Dev 1.005

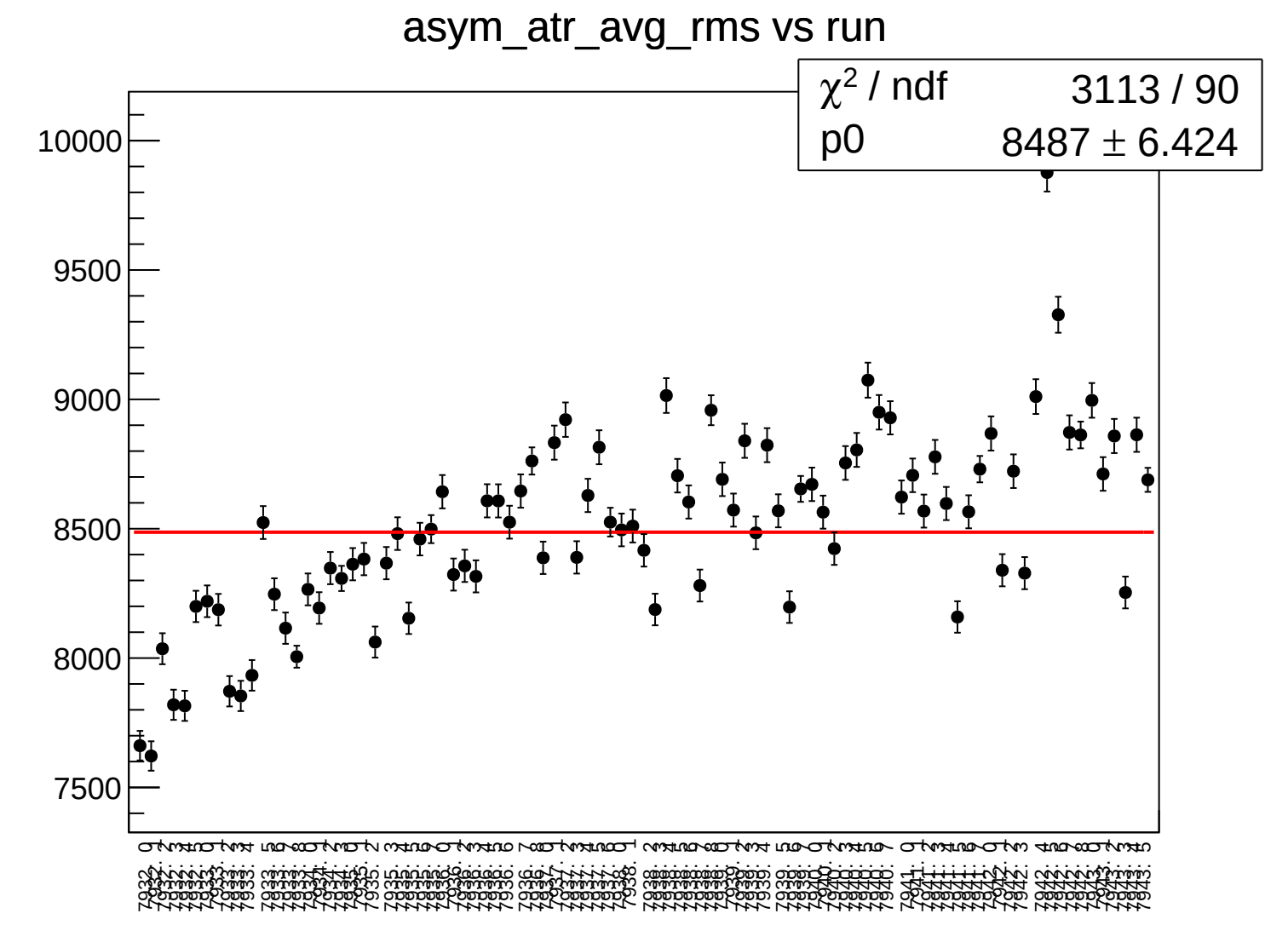

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 186.4 / 90
p0 1998 ± 1.511
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

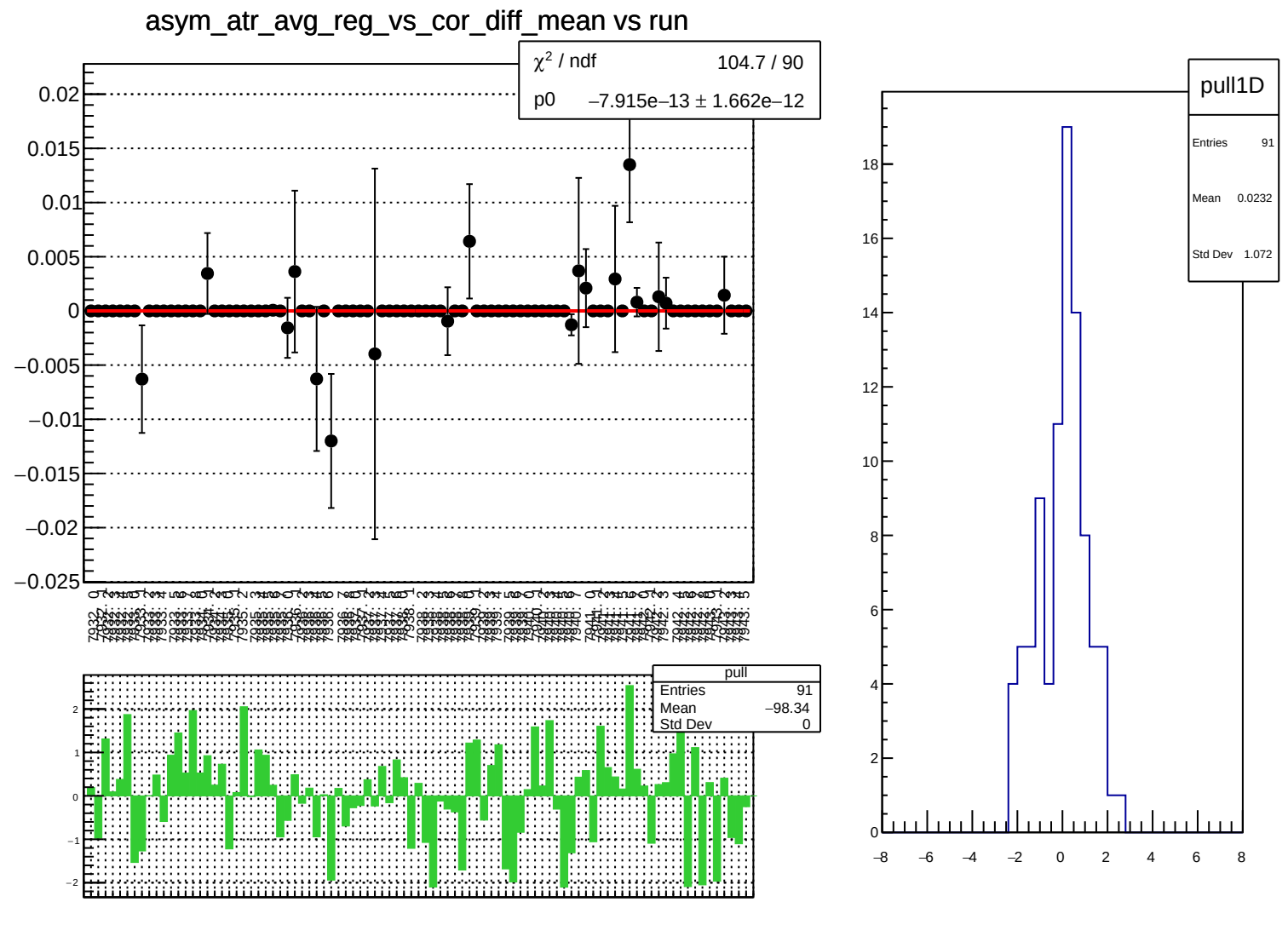

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.6 / 90
p0 −2765 ± 8866
pull
Entries 91
Mean −293.8
Std Dev 0

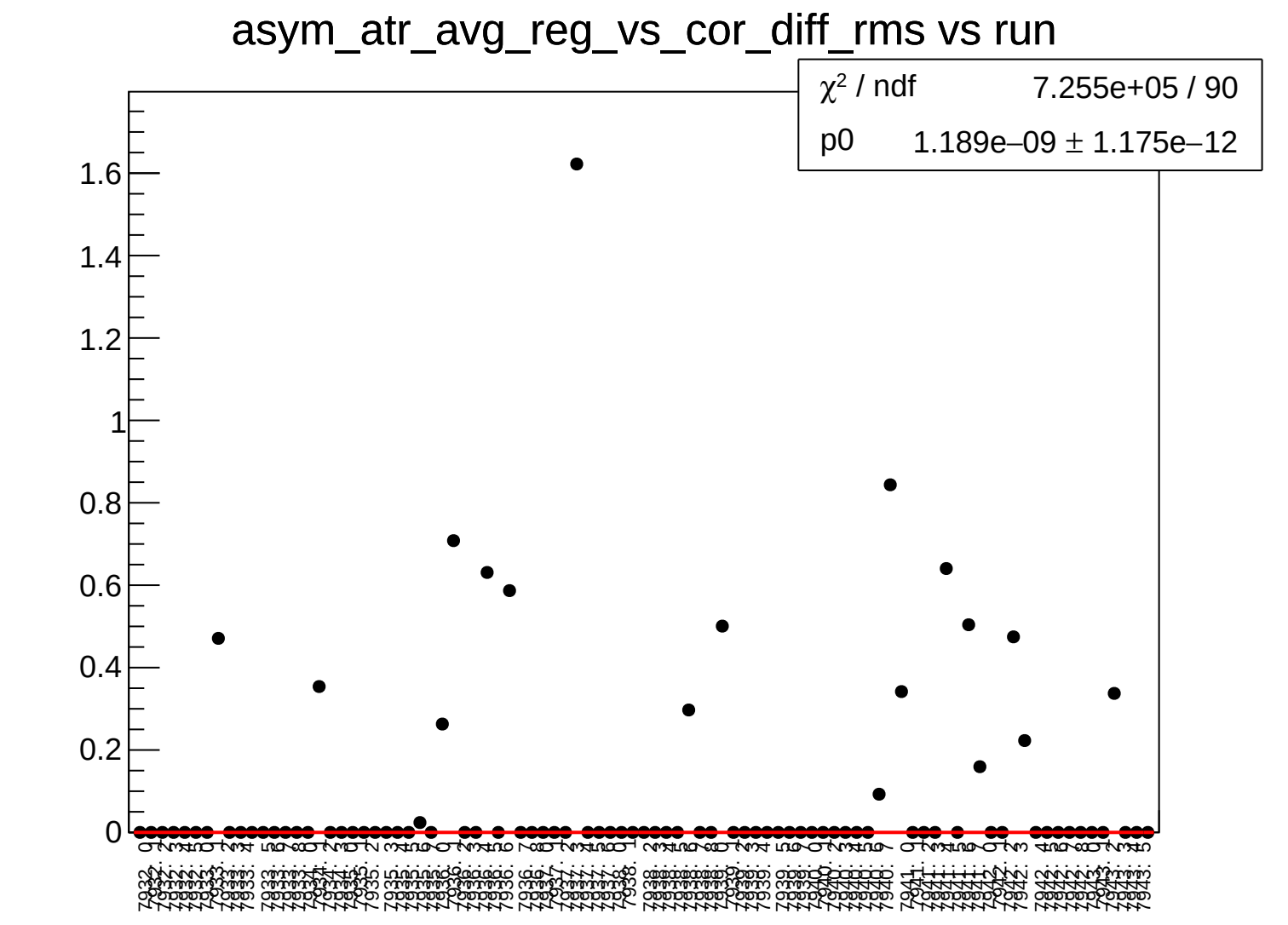

pull1D
Entries 91
Mean −0.003704
Std Dev 1.151

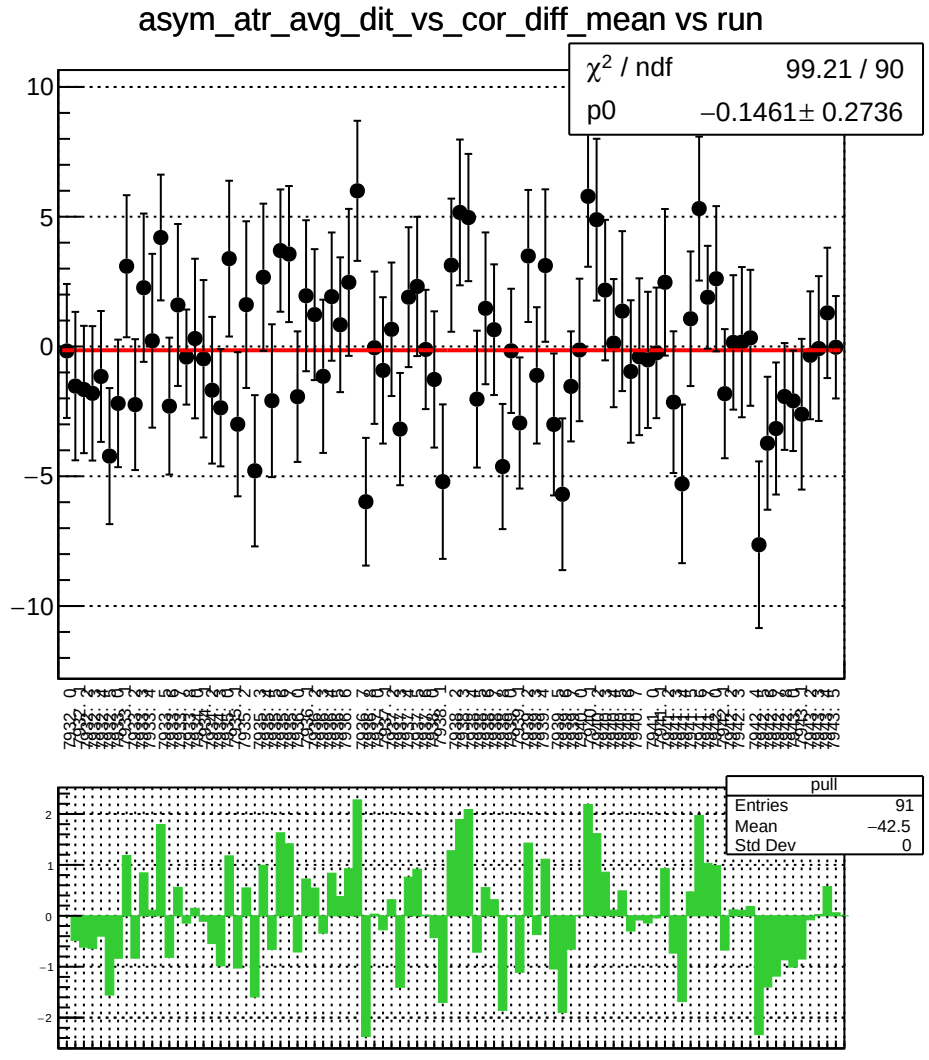

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 3156 / 90
p0 8282 ± 6.269
9500
9000
8500
8000
7500

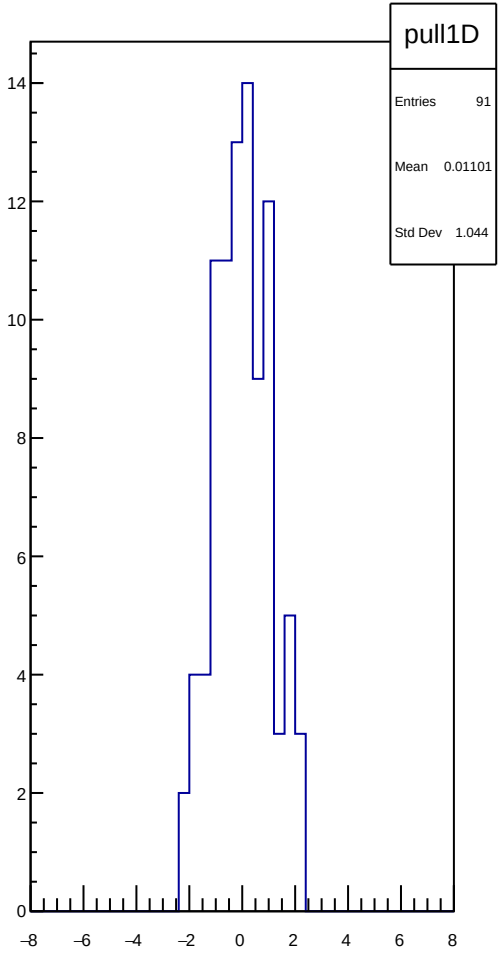

asym_atr_avg_mean vs run
×10^3
χ² / ndf 118.9 / 90
p0 2290 ± 9085
pull
Entries 91
Mean −88.66
Std Dev 0
pull1D
Entries 91
Mean 0.003519
Std Dev 1.143

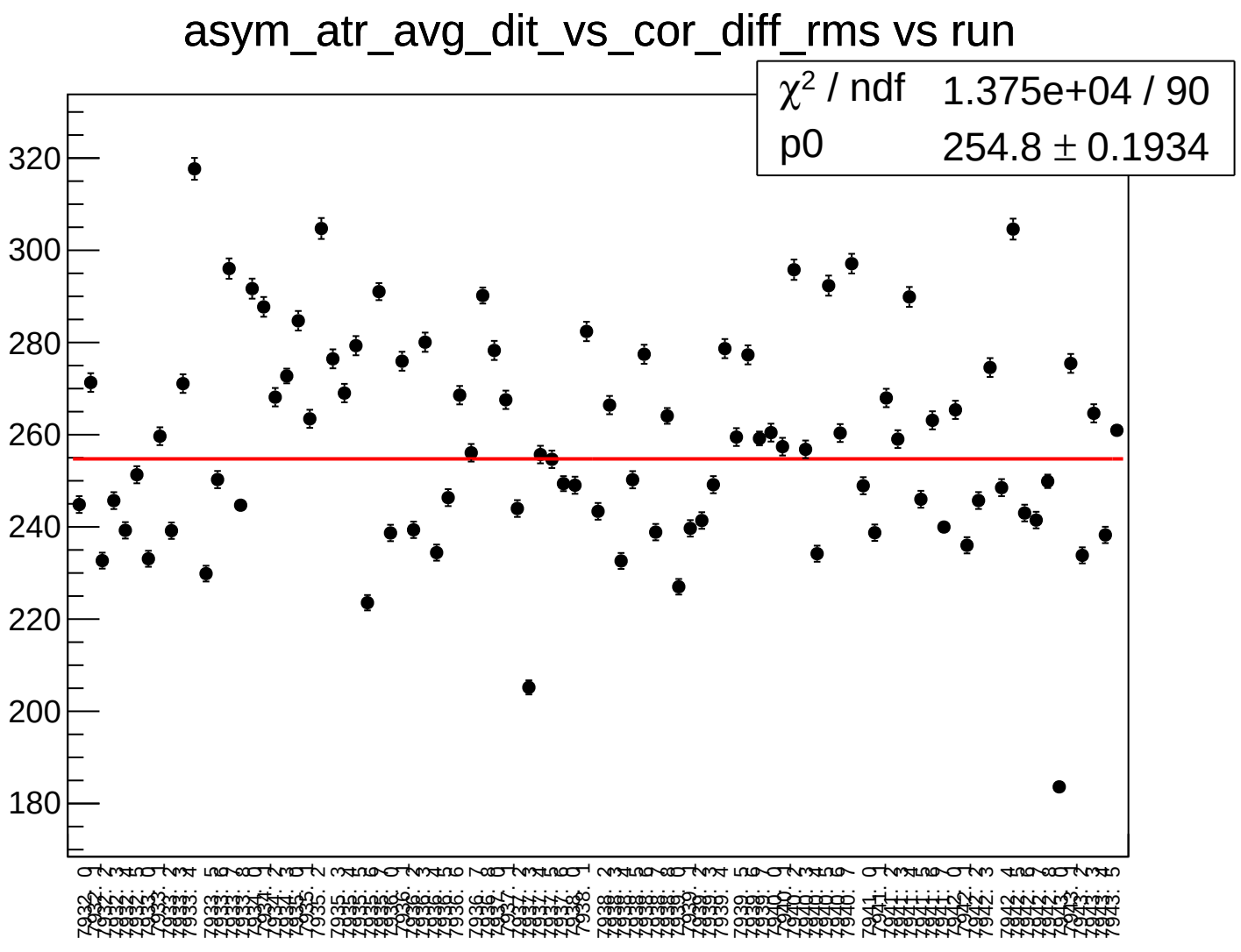

asym_atr_avg_rms vs run
χ^2 / ndf 3113 / 90
p0 8487 ± 6.424
10000
9500
9000
8500
8000
7500

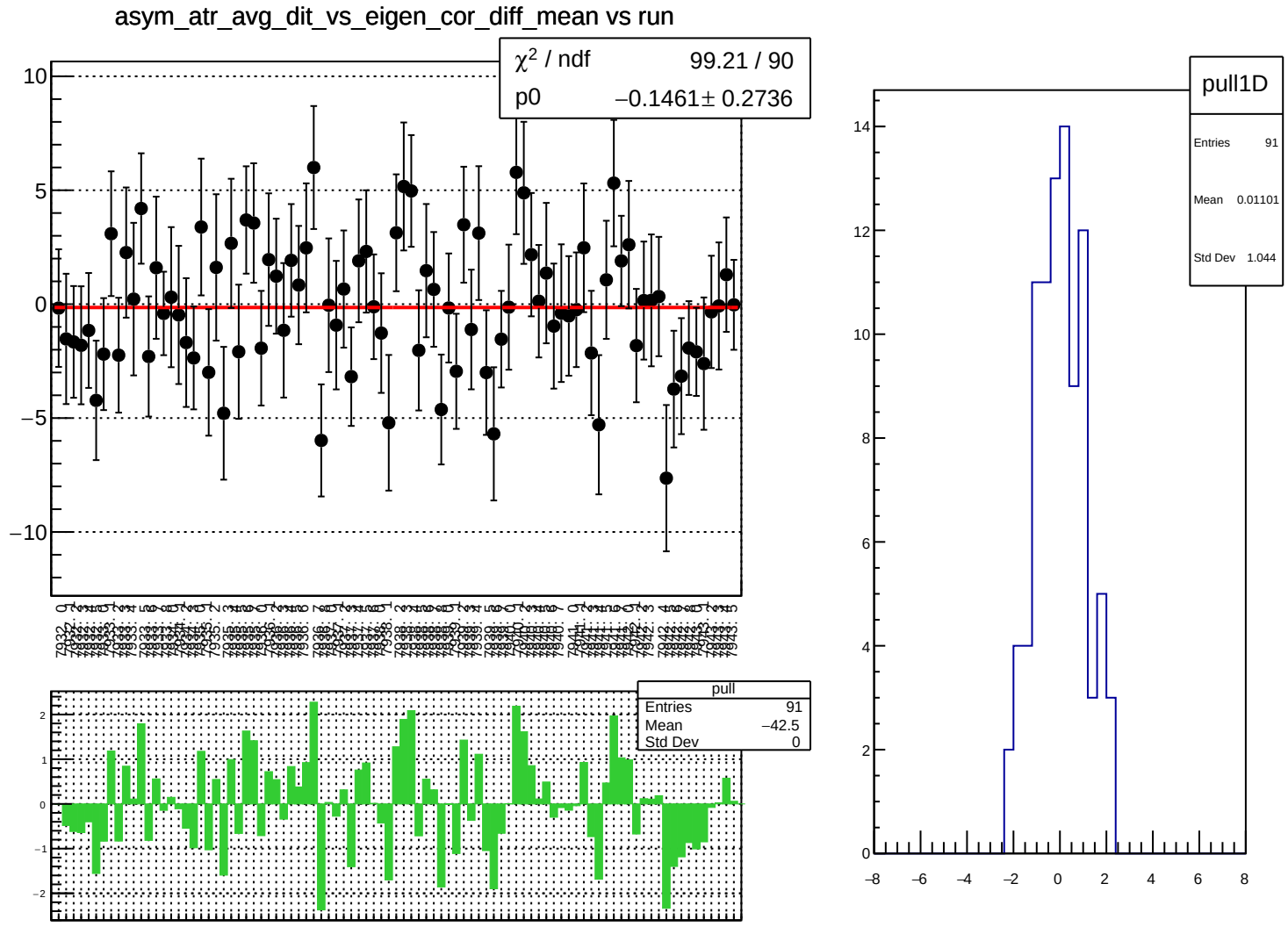

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −7.915e−13 ± 1.662e−12
pull
Entries 91
Mean −98.34
Std Dev 0
pull1D
Entries 91
Mean 0.0232
Std Dev 1.072

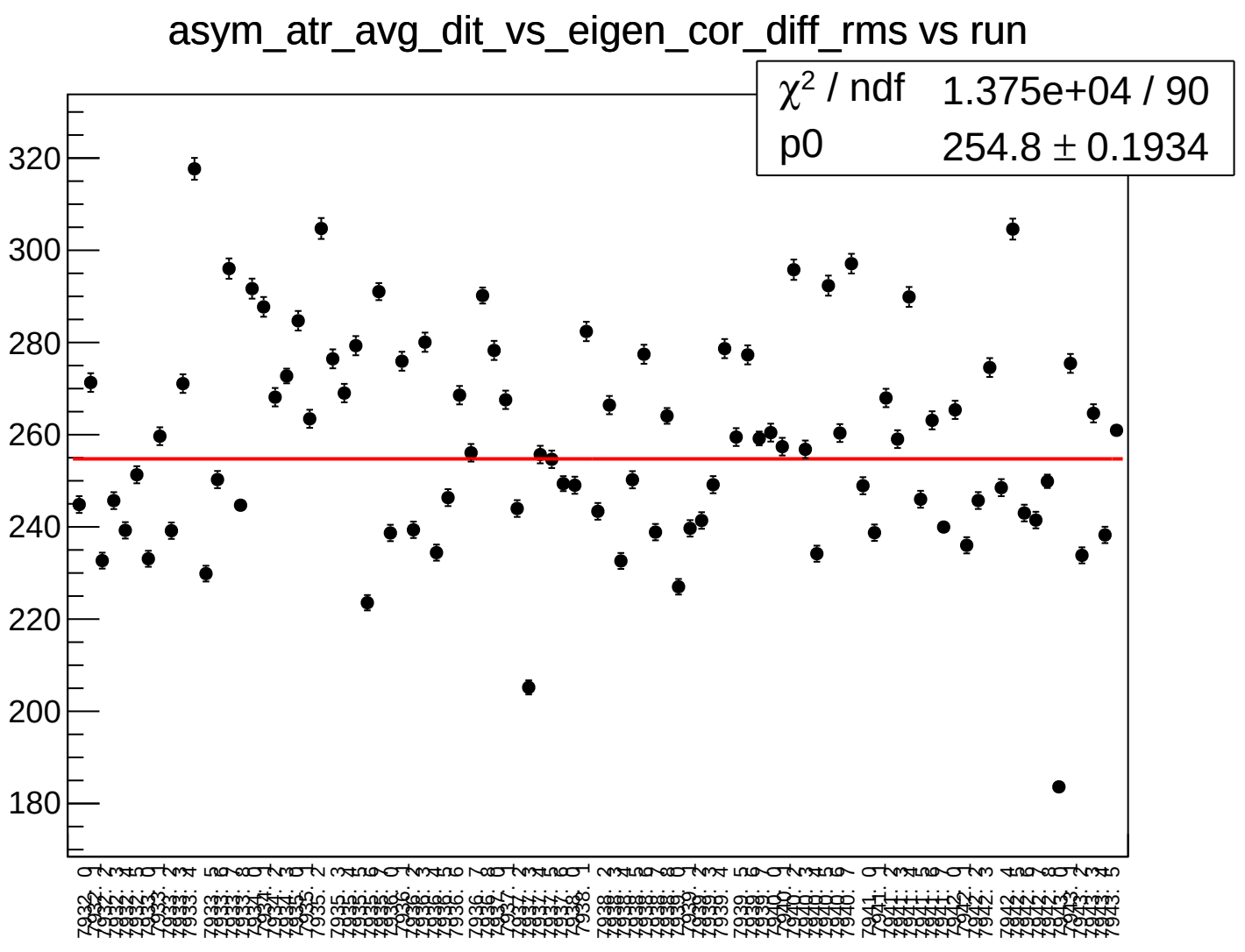

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.255e+05 / 90
p0 1.189e−09 ± 1.175e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

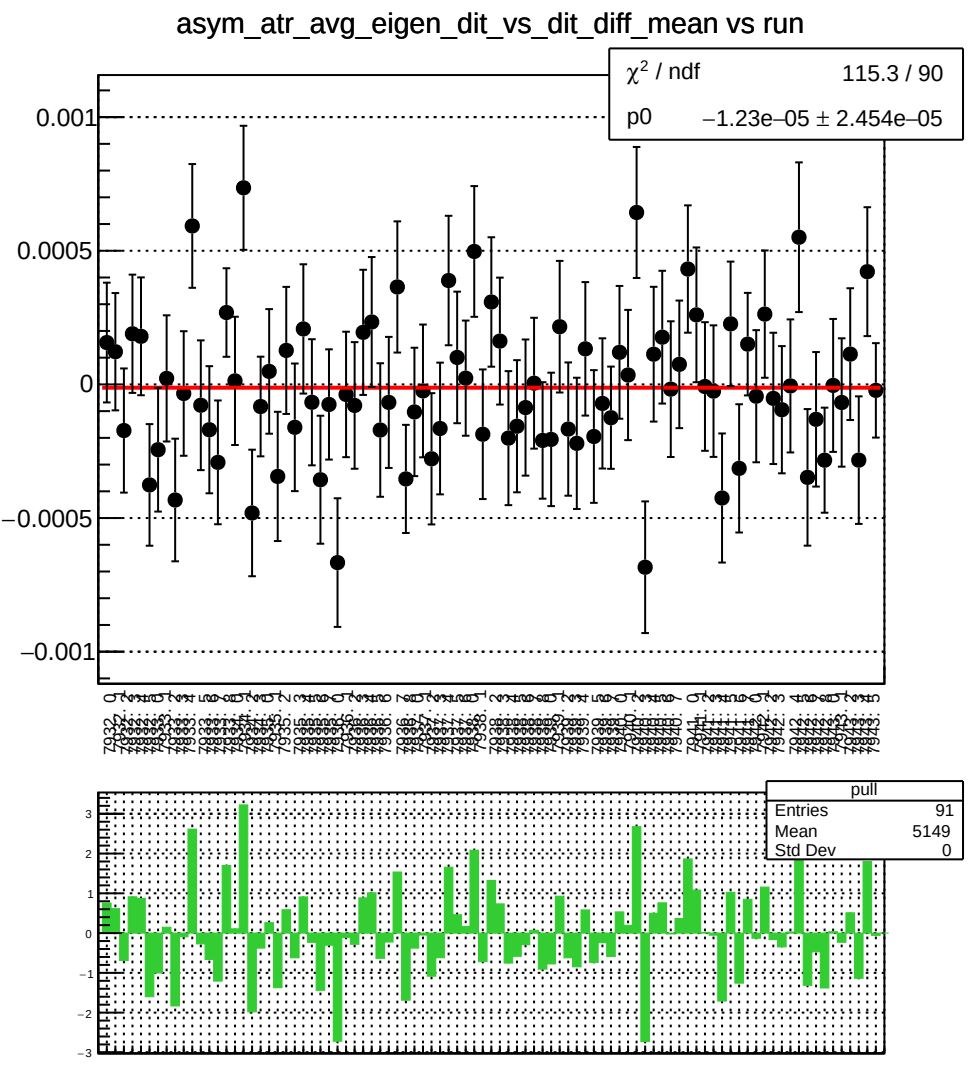

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.21 / 90
p0 −0.1461± 0.2736
pull
Entries 91
Mean −42.5
Std Dev 0

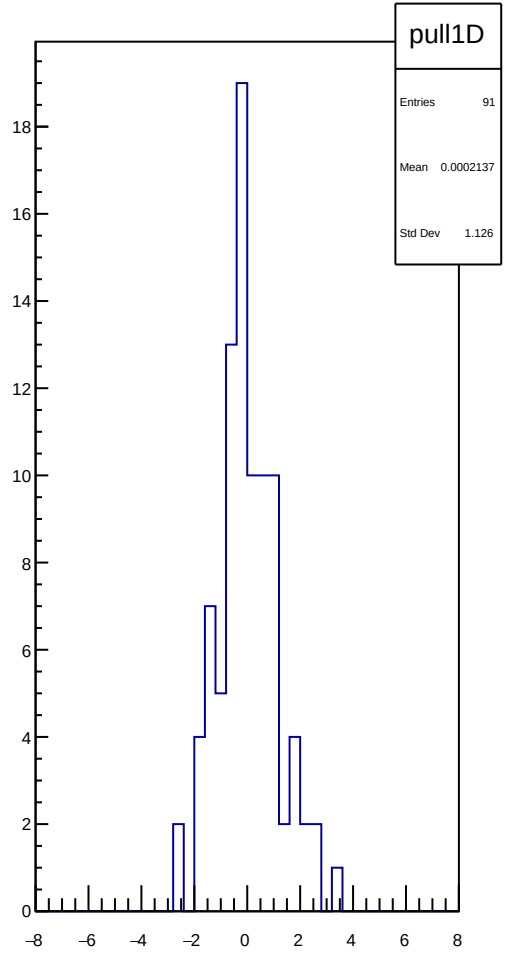

pull1D
Entries 91
Mean 0.01101
Std Dev 1.044

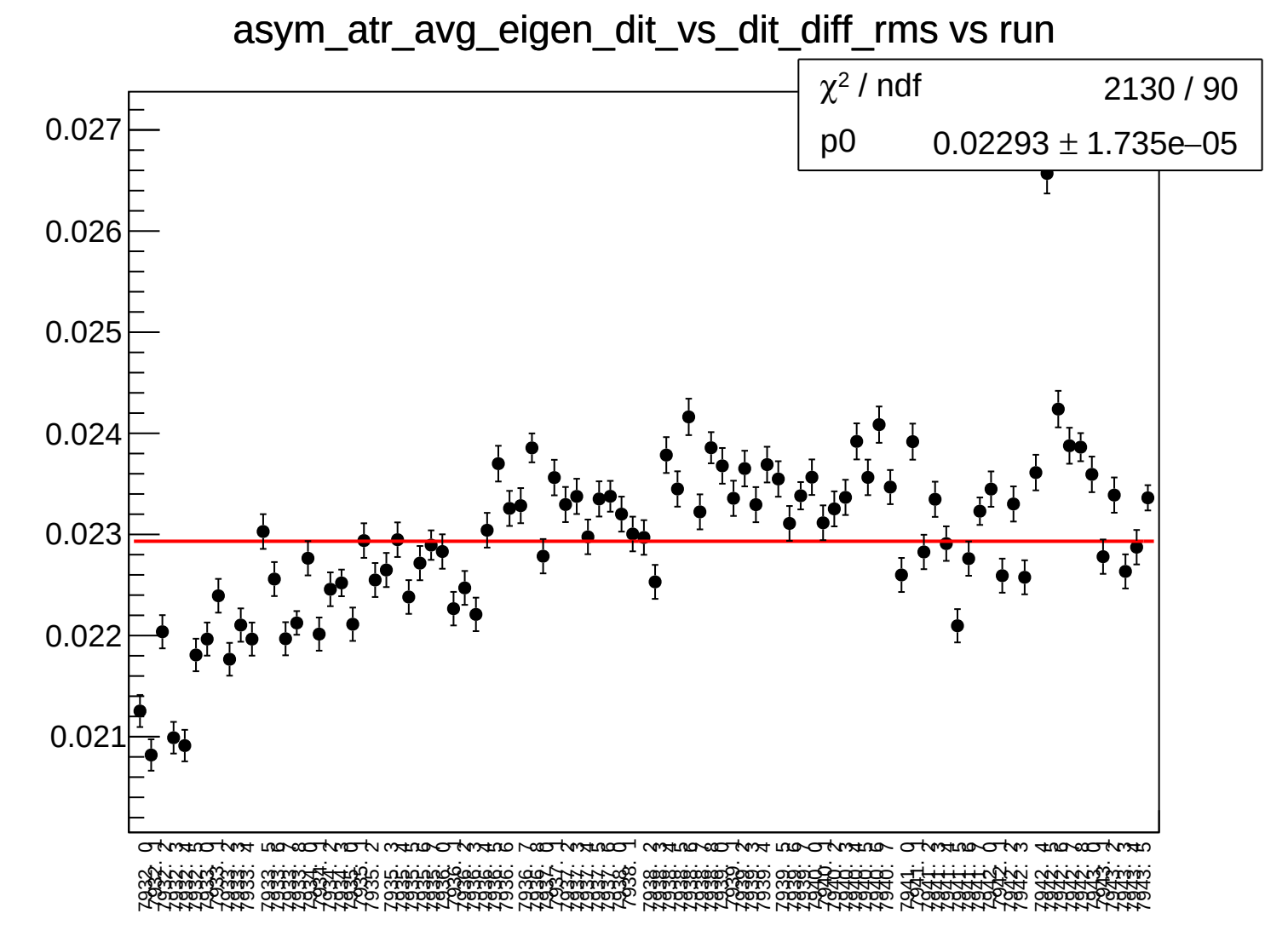

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 90
p0 254.8 ± 0.1934
320
300
280
260
240
220
200
180

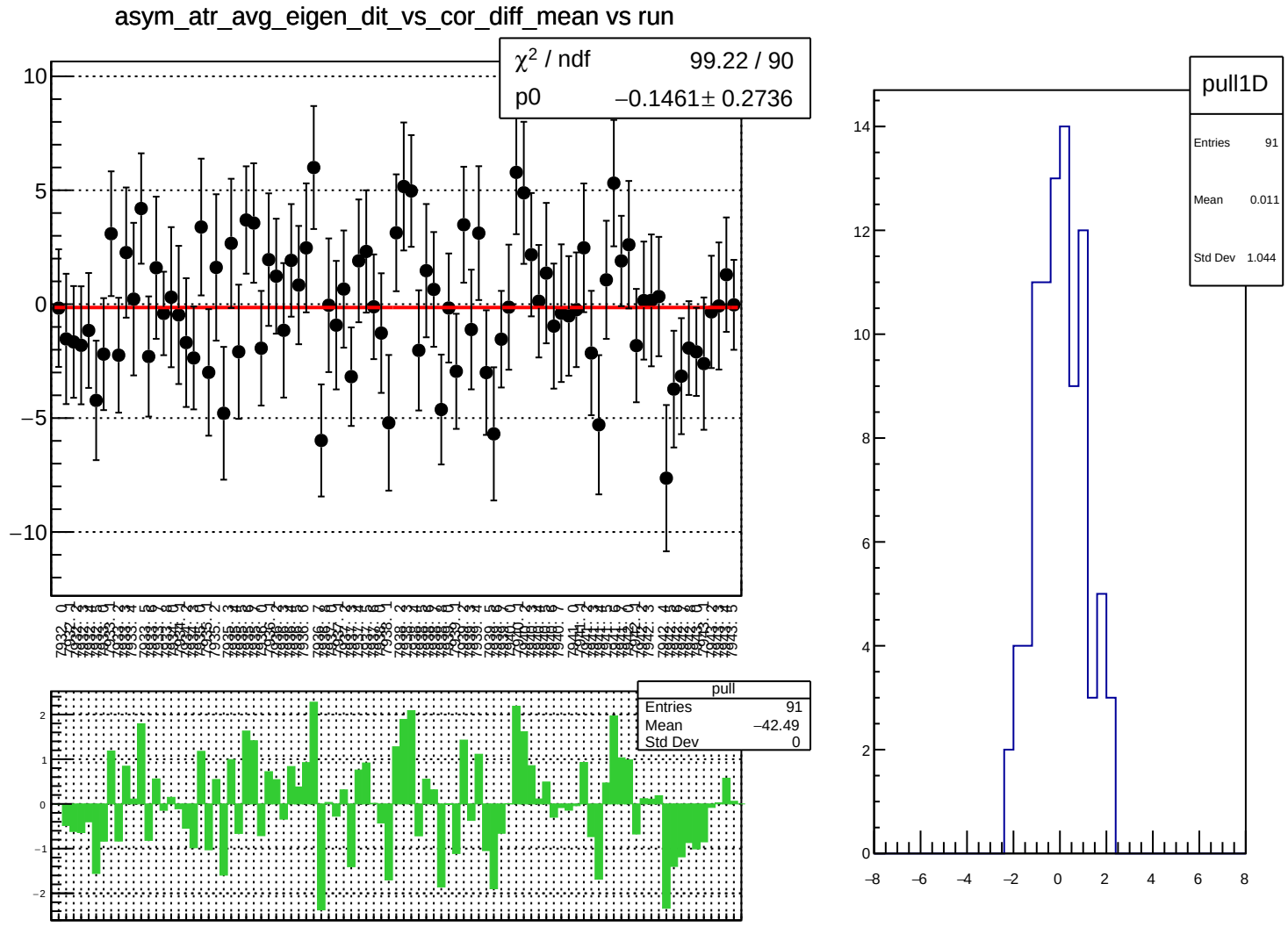

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.21 / 90
p0 −0.1461± 0.2736
pull
Entries 91
Mean −42.5
Std Dev 0
pull1D
Entries 91
Mean 0.01101
Std Dev 1.044

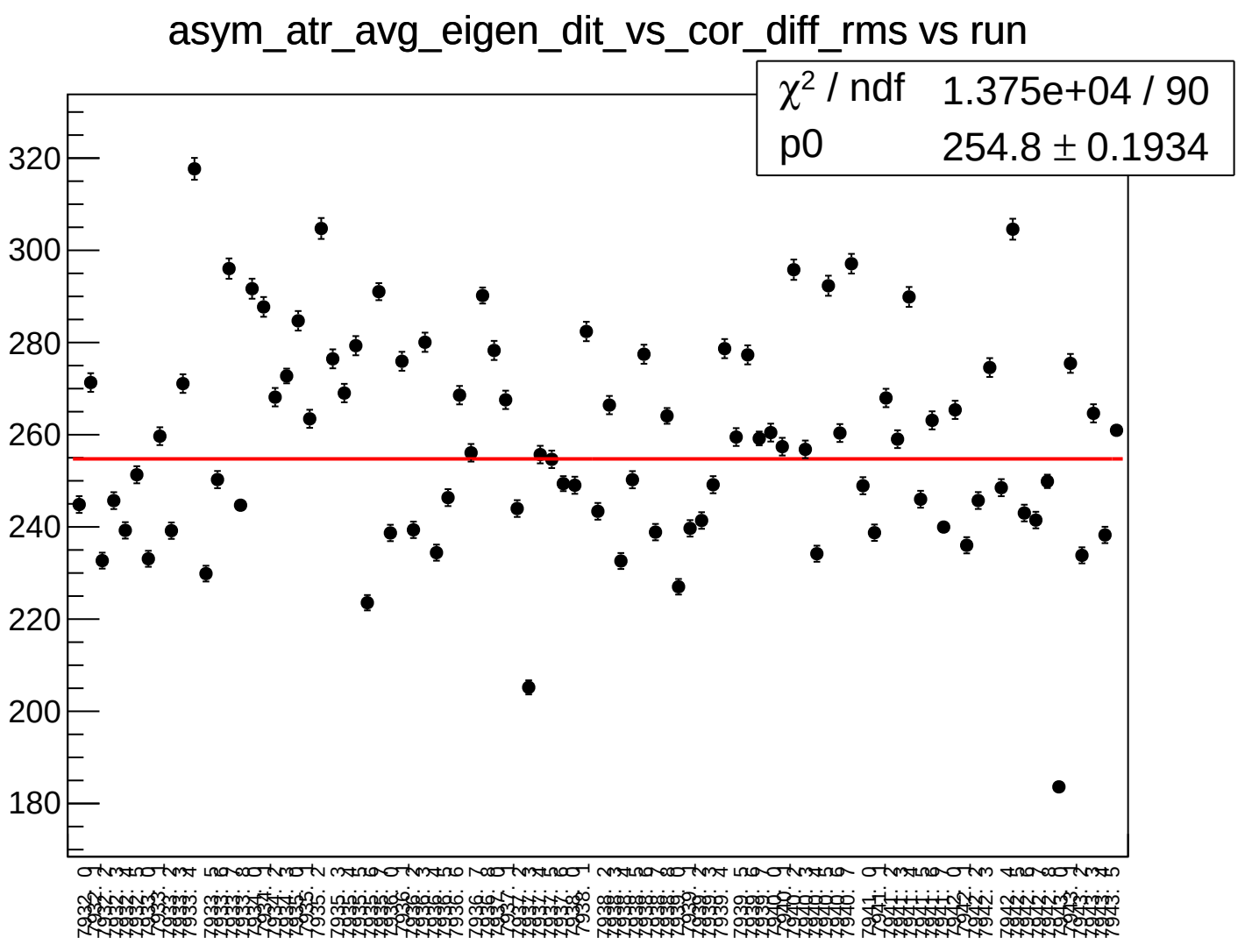

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 90
p0 254.8 ± 0.1934
320
300
280
260
240
220
200
180

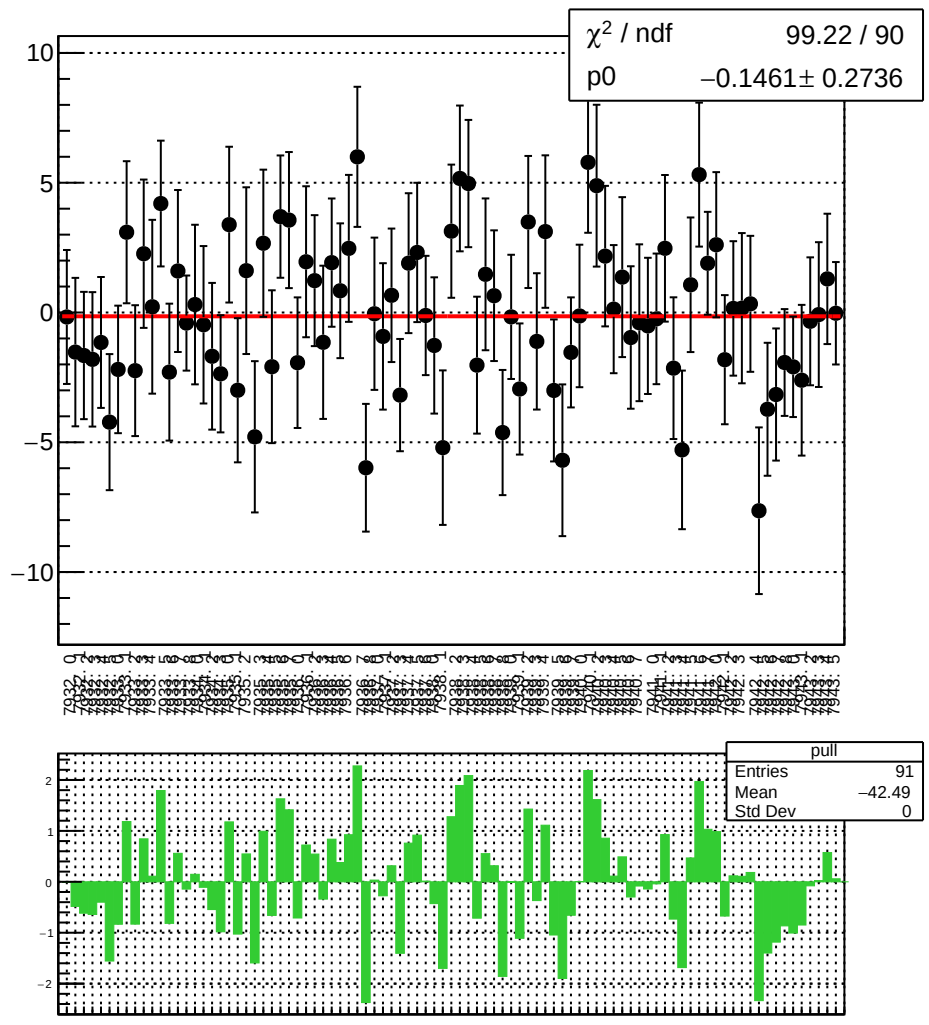

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.3 / 90
p0 −1.23e−05 ± 2.454e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 5149
Std Dev 0
3
2
1
0
−1
−2
−3

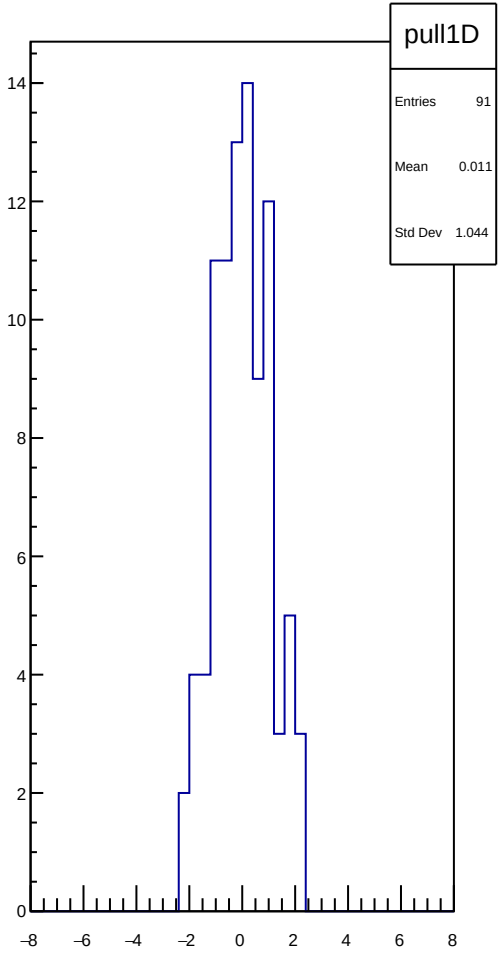

pull1D
Entries 91
Mean 0.0002137
Std Dev 1.126
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

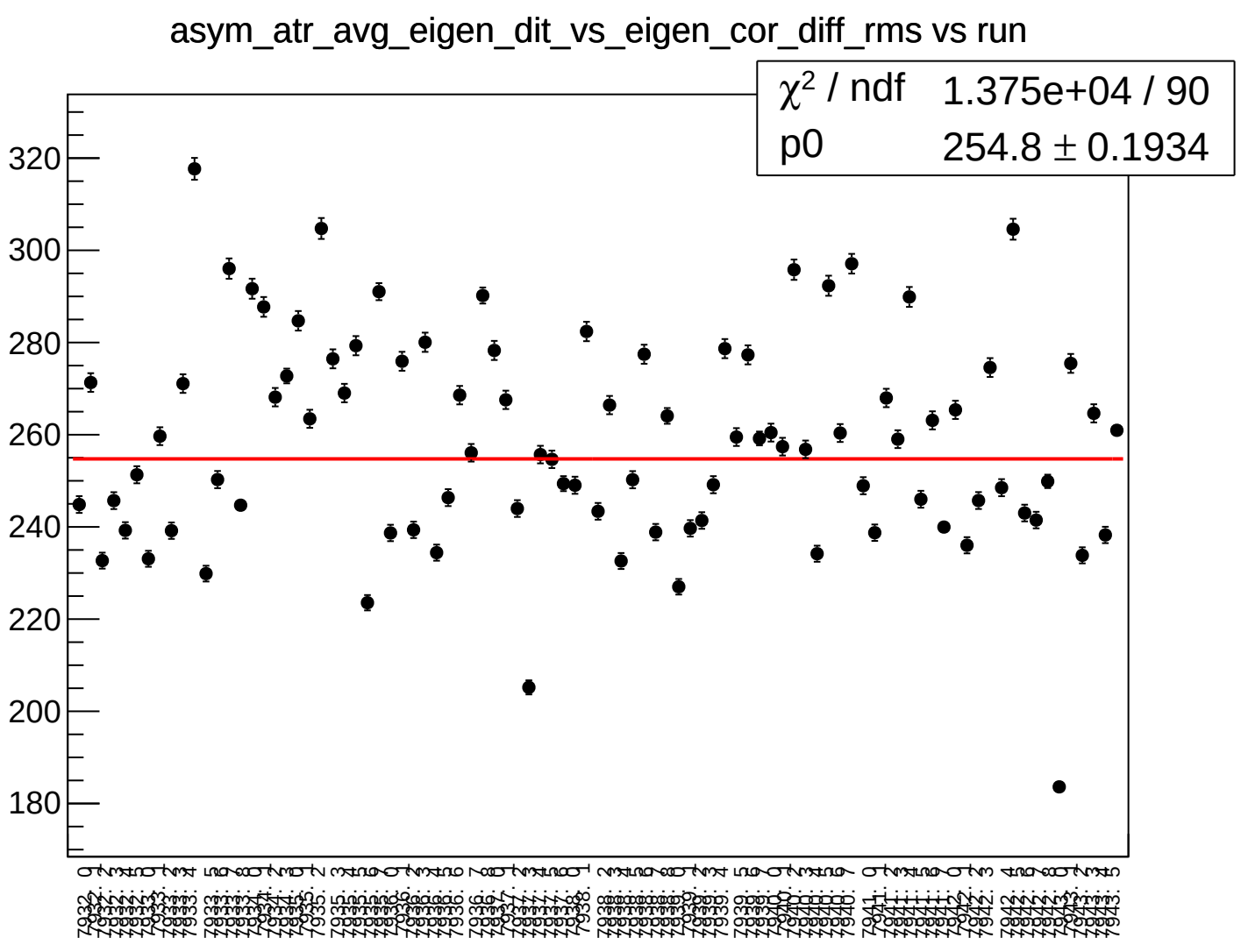

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2130 / 90
p0 0.02293 ± 1.735e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021

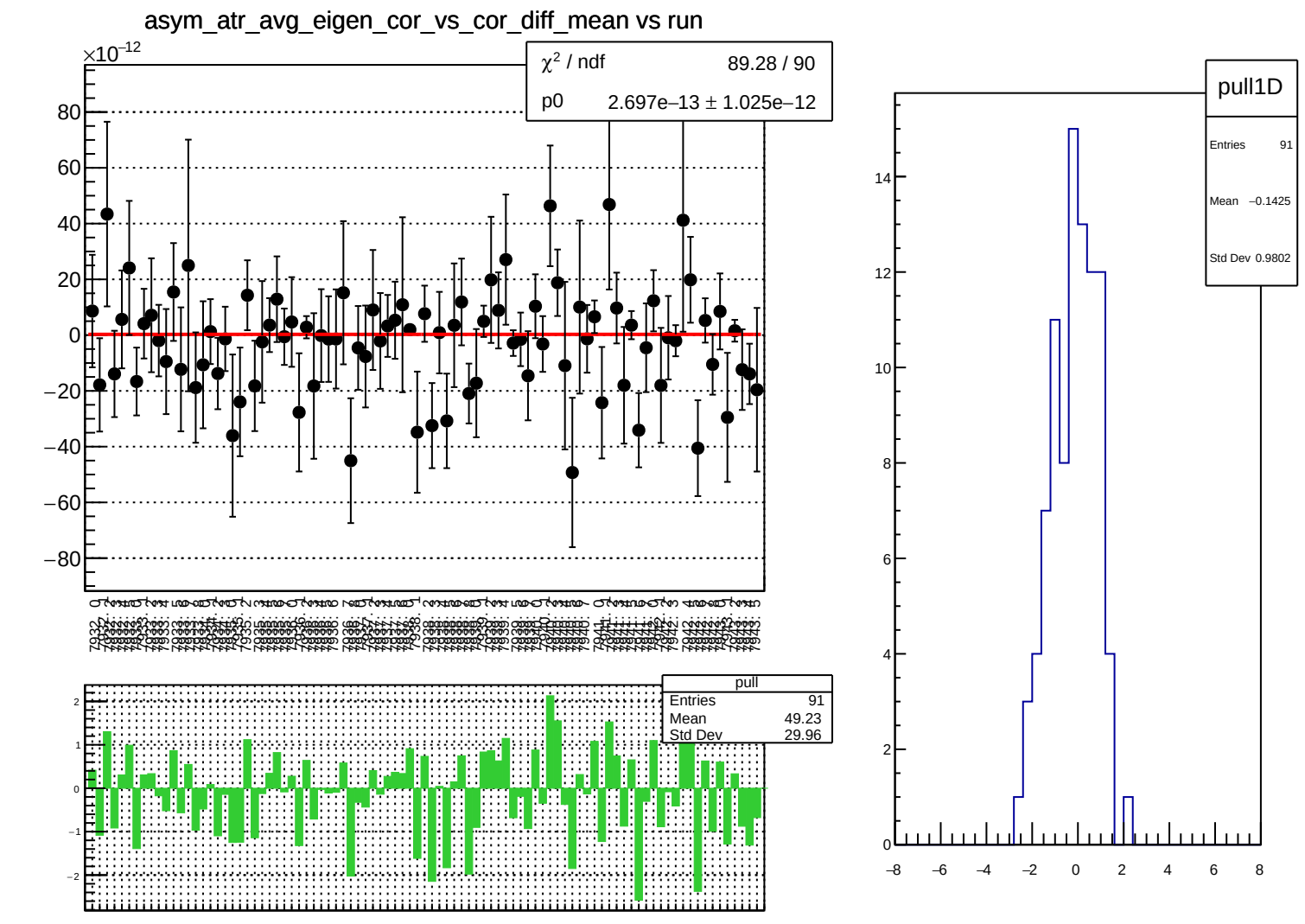

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.22 / 90
p0 −0.1461± 0.2736
pull
Entries 91
Mean −42.49
Std Dev 0
pull1D
Entries 91
Mean 0.011
Std Dev 1.044

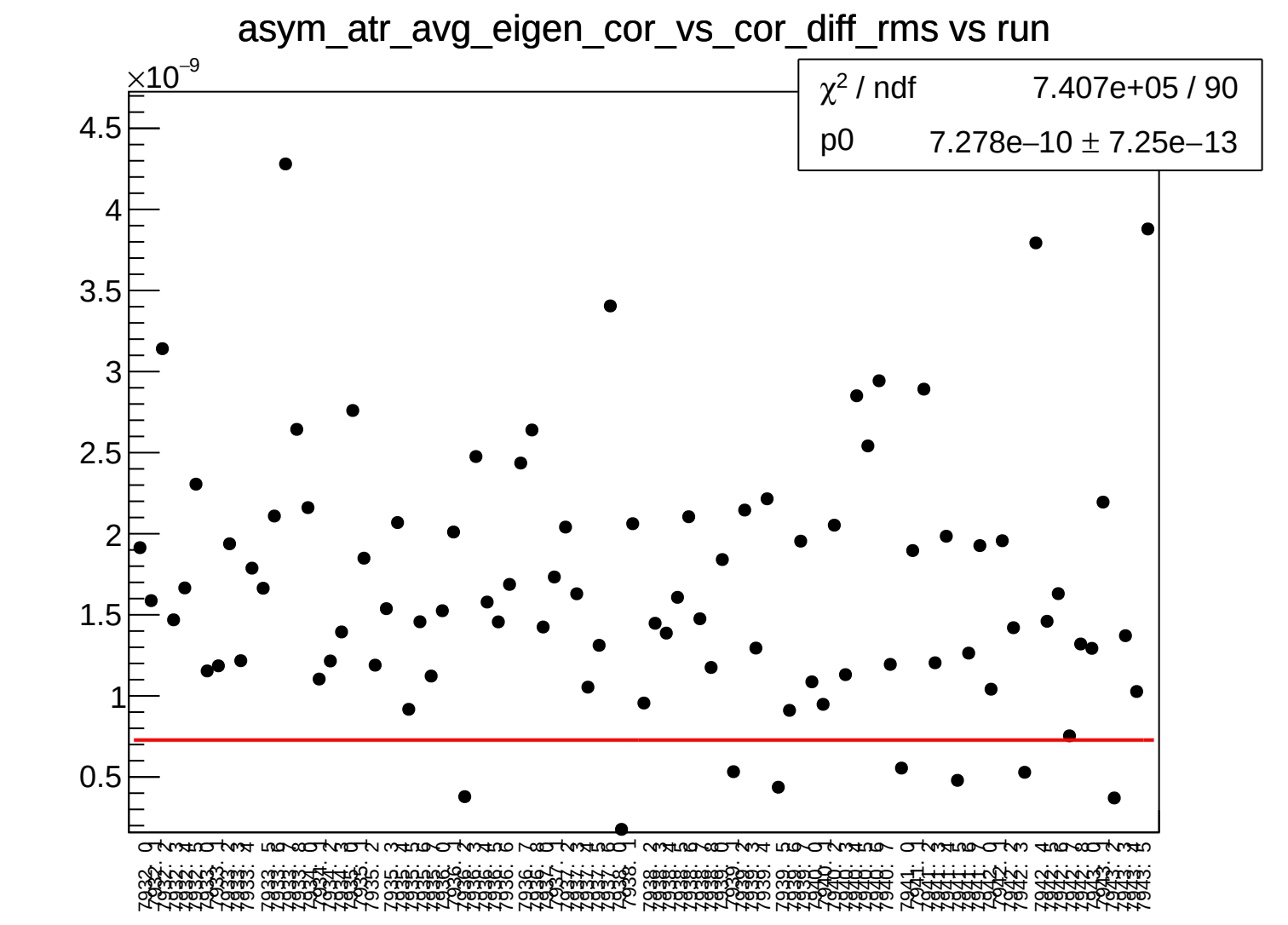

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 90
p0 254.8 ± 0.1934
320
300
280
260
240
220
200
180

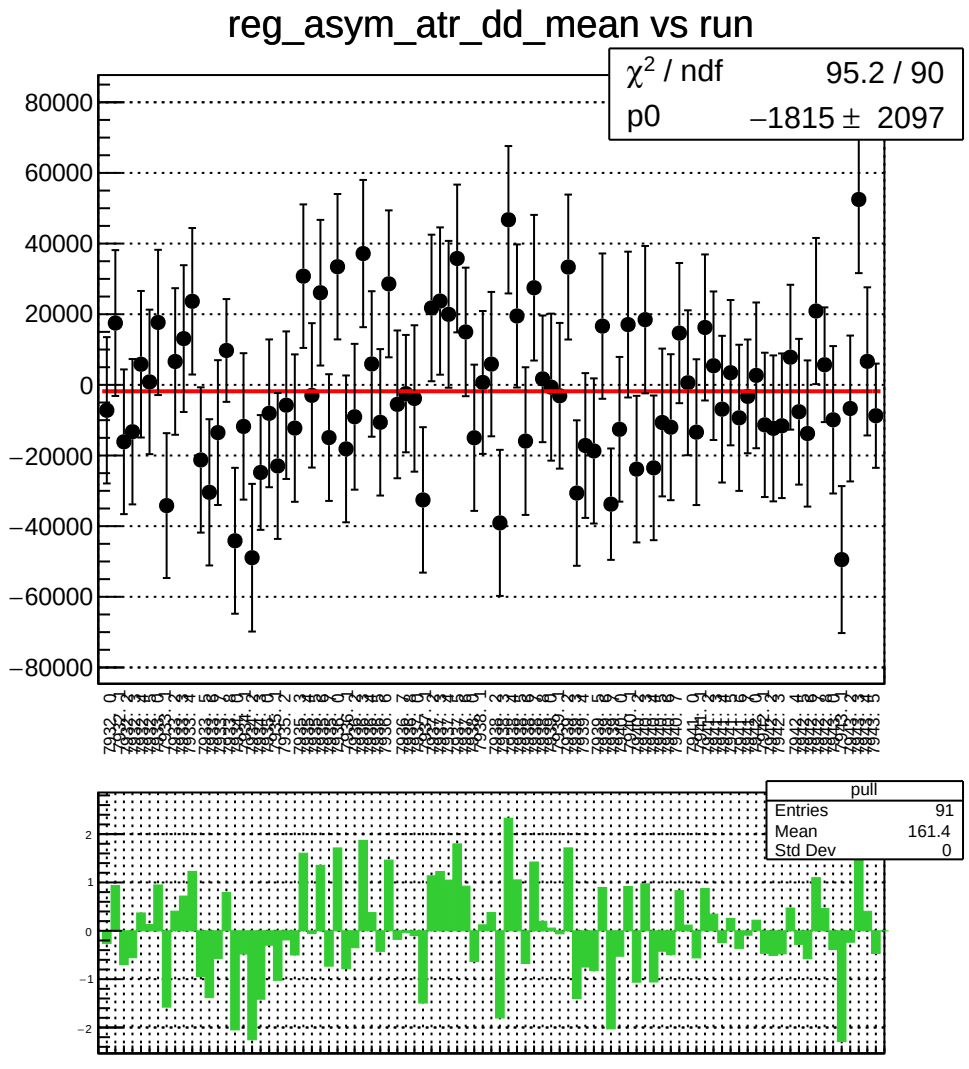

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.22 / 90
p0 −0.1461± 0.2736
pull
Entries 91
Mean −42.49
Std Dev 0

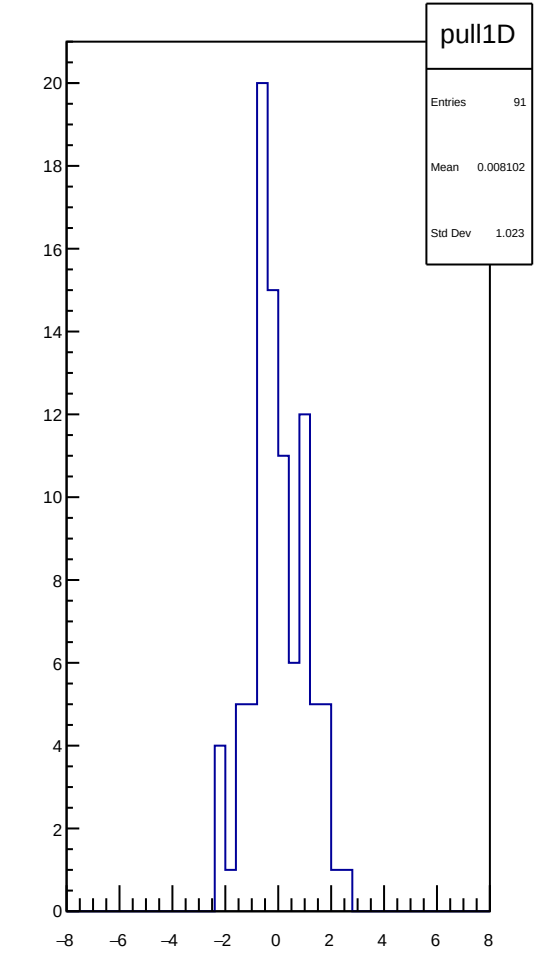

pull1D
Entries 91
Mean 0.011
Std Dev 1.044

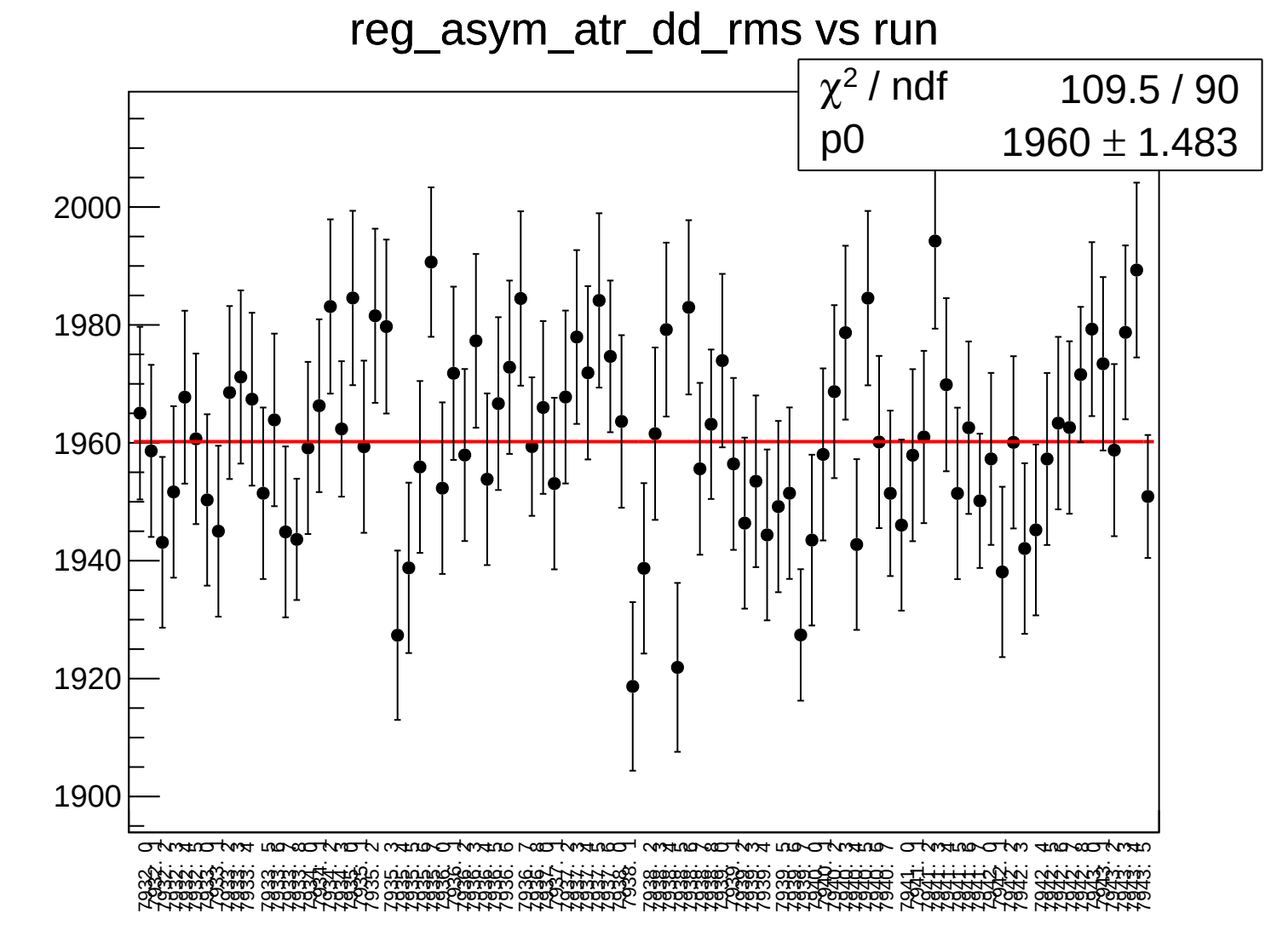

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 90
p0 254.8 ± 0.1934
320
300
280
260
240
220
200
180

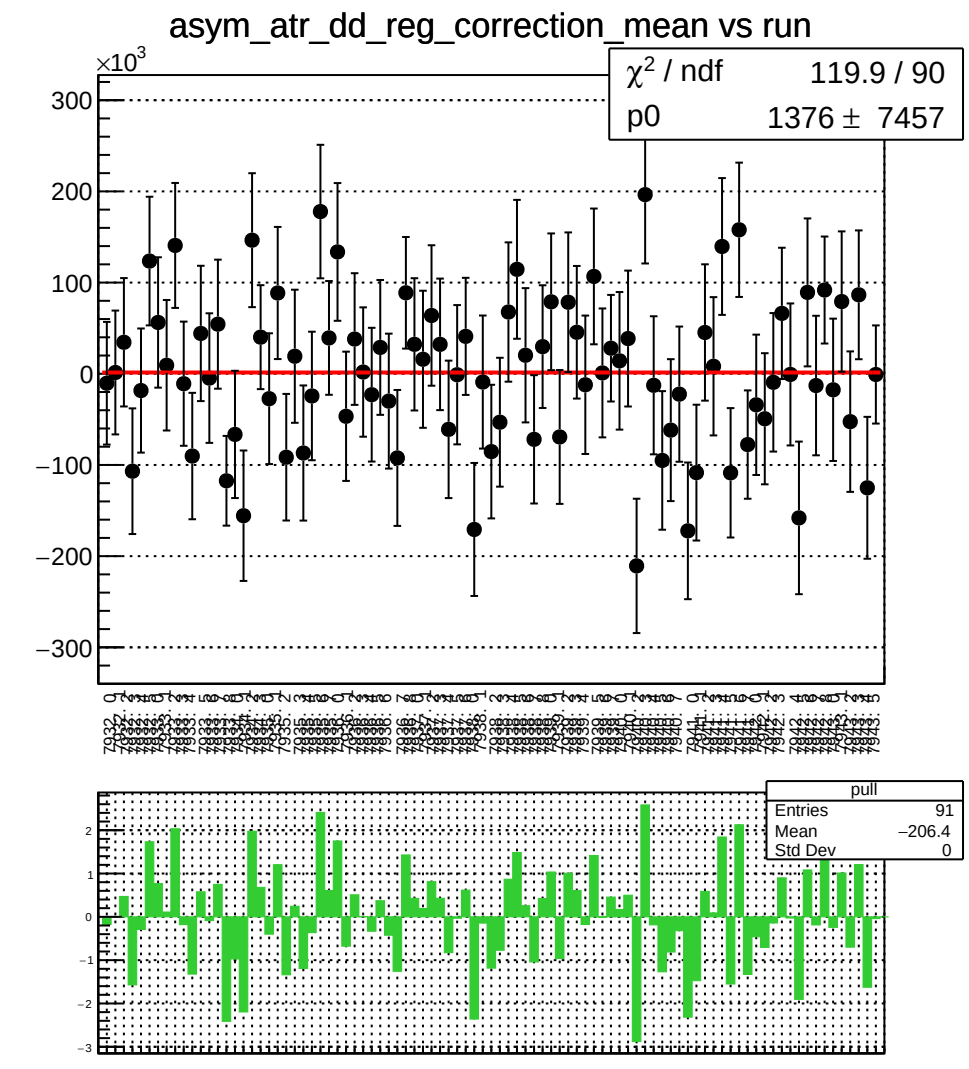

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.28 / 90
p0 2.697e−13 ± 1.025e−12
pull
Entries 91
Mean 49.23
Std Dev 29.96
pull1D
Entries 91
Mean −0.1425
Std Dev 0.9802

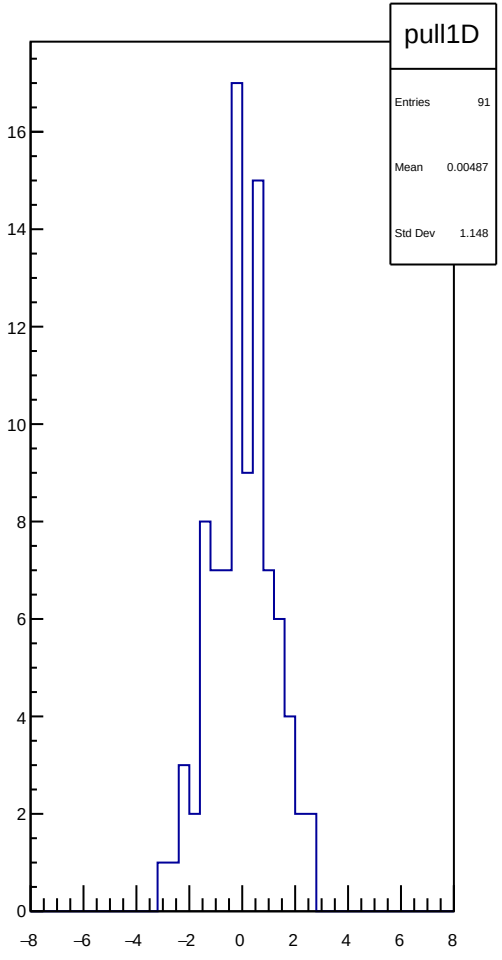

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.407e+05 / 90
p0 7.278e−10 ± 7.25e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

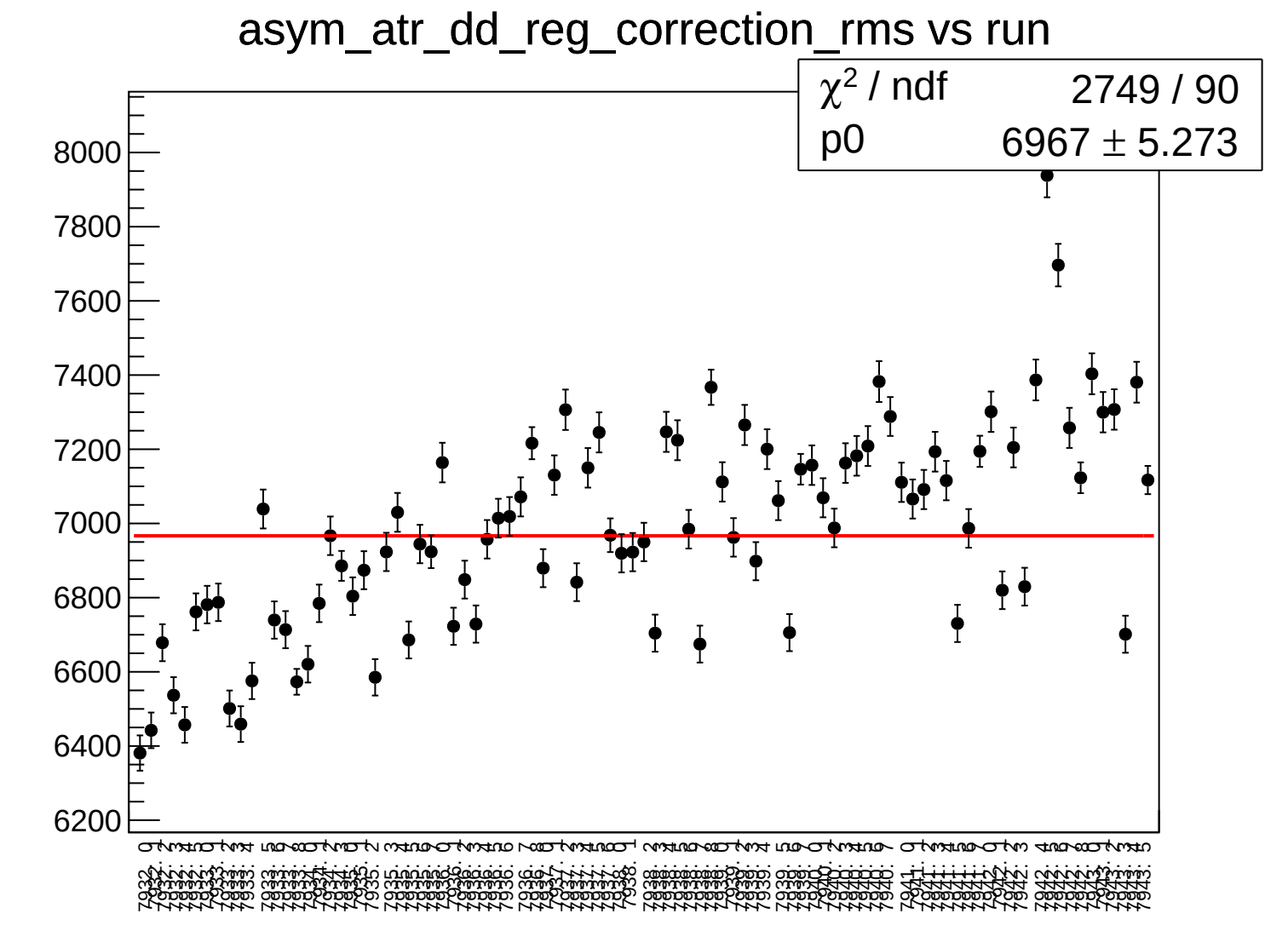

reg_asym_atr_dd_mean vs run
χ² / ndf 95.2 / 90
p0 −1815 ± 2097
pull
Entries 91
Mean 161.4
Std Dev 0

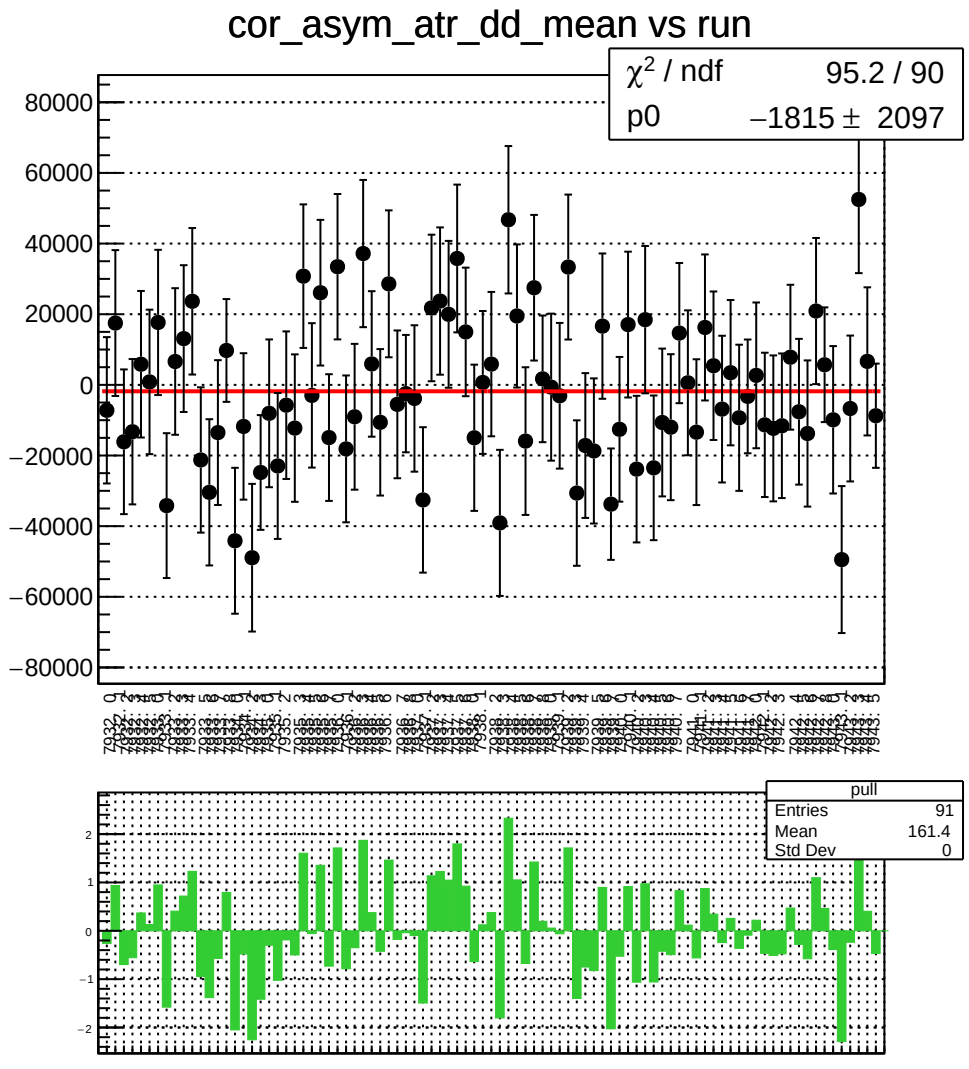

pull1D
Entries 91
Mean 0.008102
Std Dev 1.023

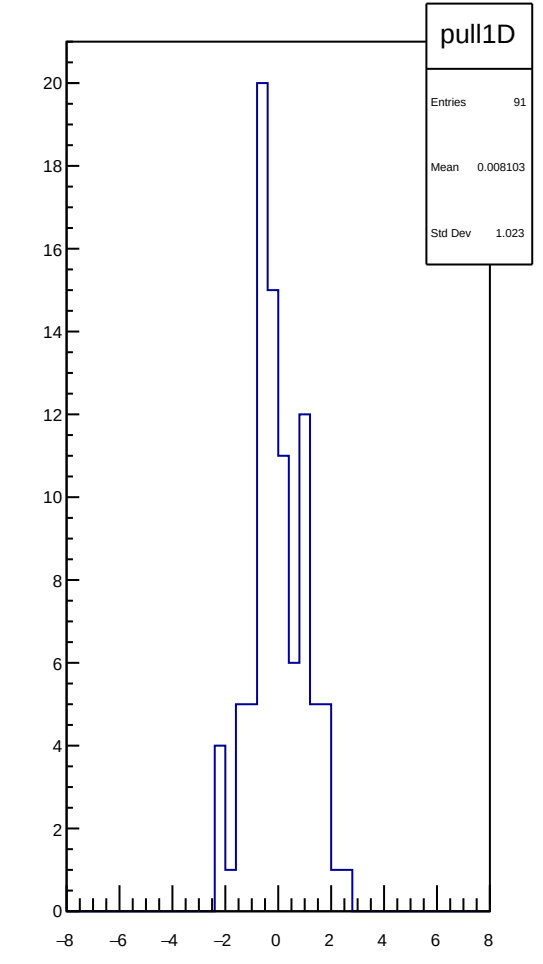

reg_asym_atr_dd_rms vs run
χ^2 / ndf 109.5 / 90
p0 1960 ± 1.483
2000
1980
1960
1940
1920
1900

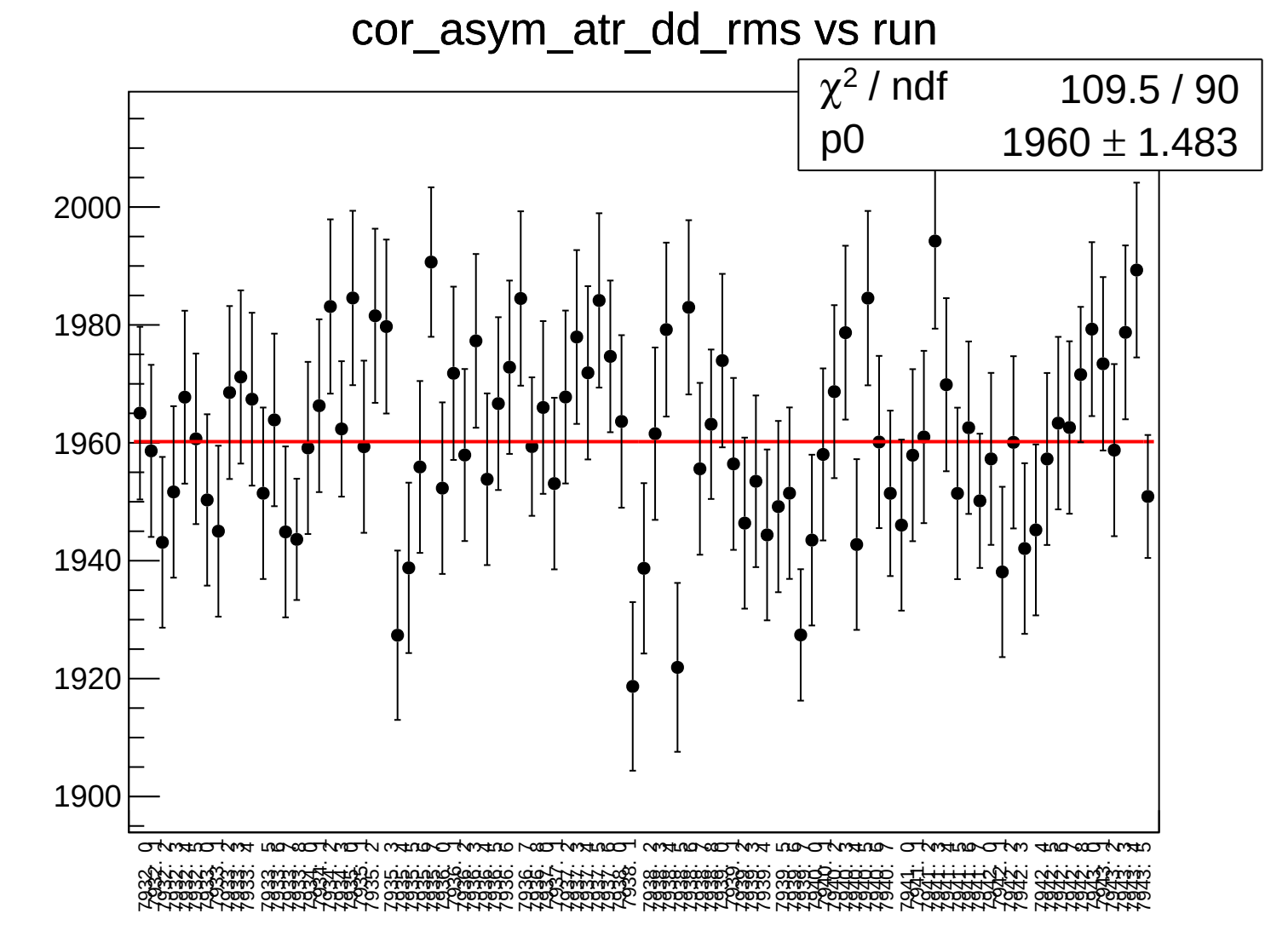

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1376 ± 7457
pull
Entries 91
Mean −206.4
Std Dev 0

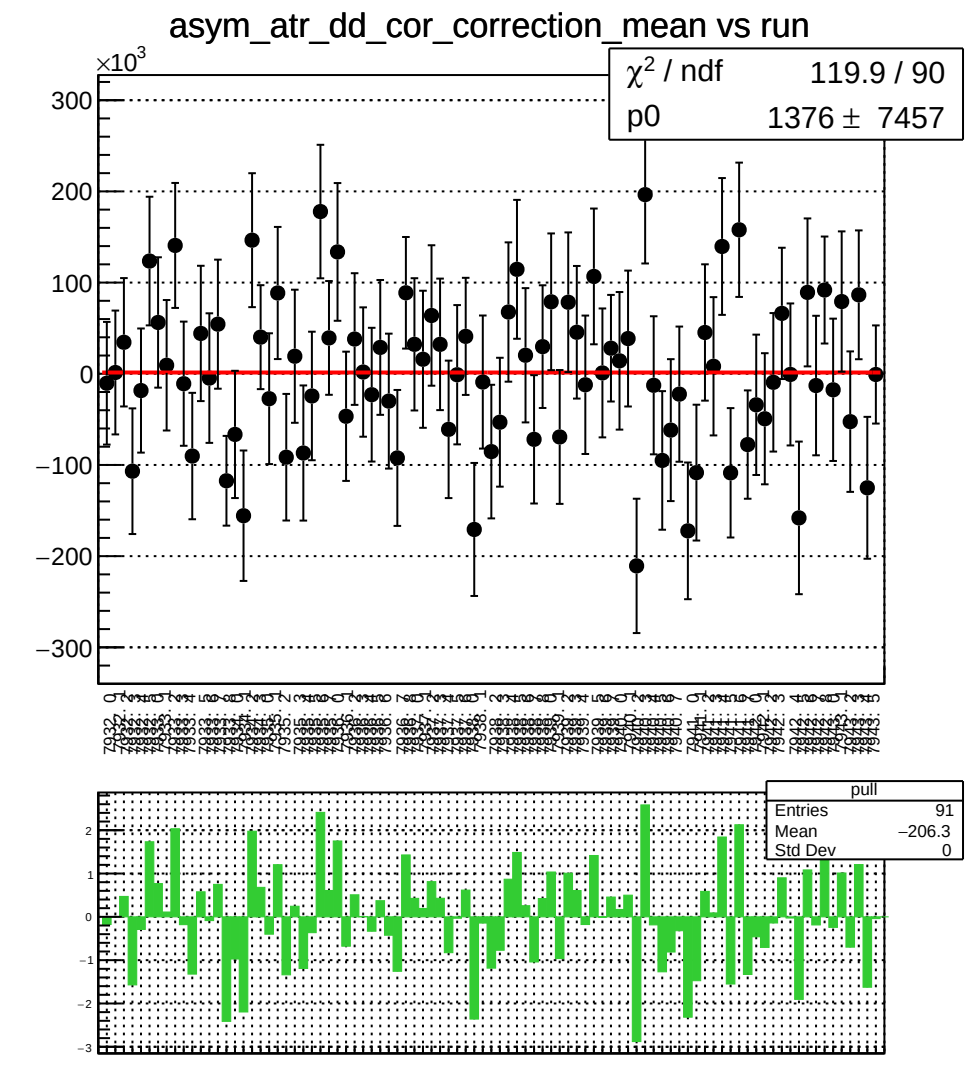

pull1D
Entries 91
Mean 0.00487
Std Dev 1.148

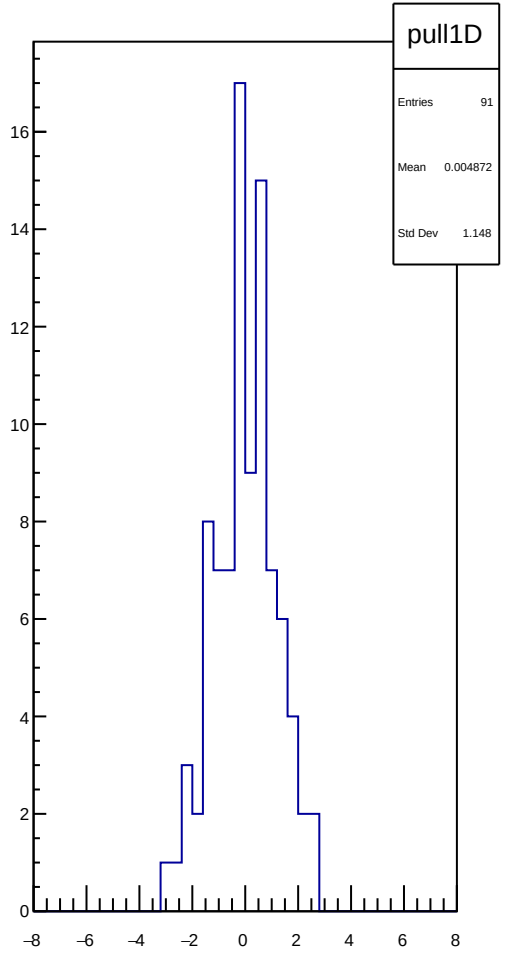

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 2749 / 90
p0 6967 ± 5.273
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

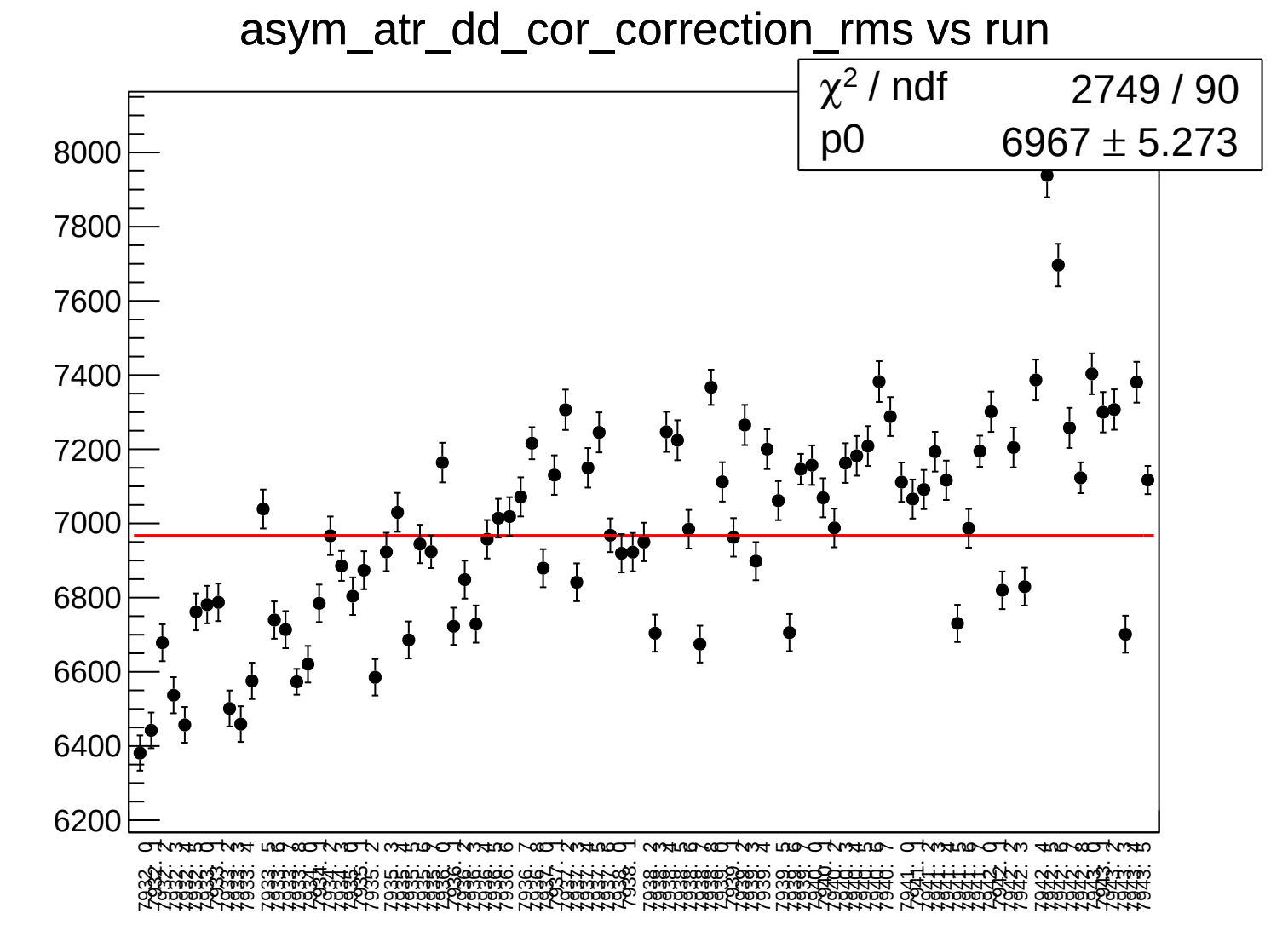

cor_asym_atr_dd_mean vs run
χ² / ndf 95.2 / 90
p0 −1815 ± 2097
pull
Entries 91
Mean 161.4
Std Dev 0

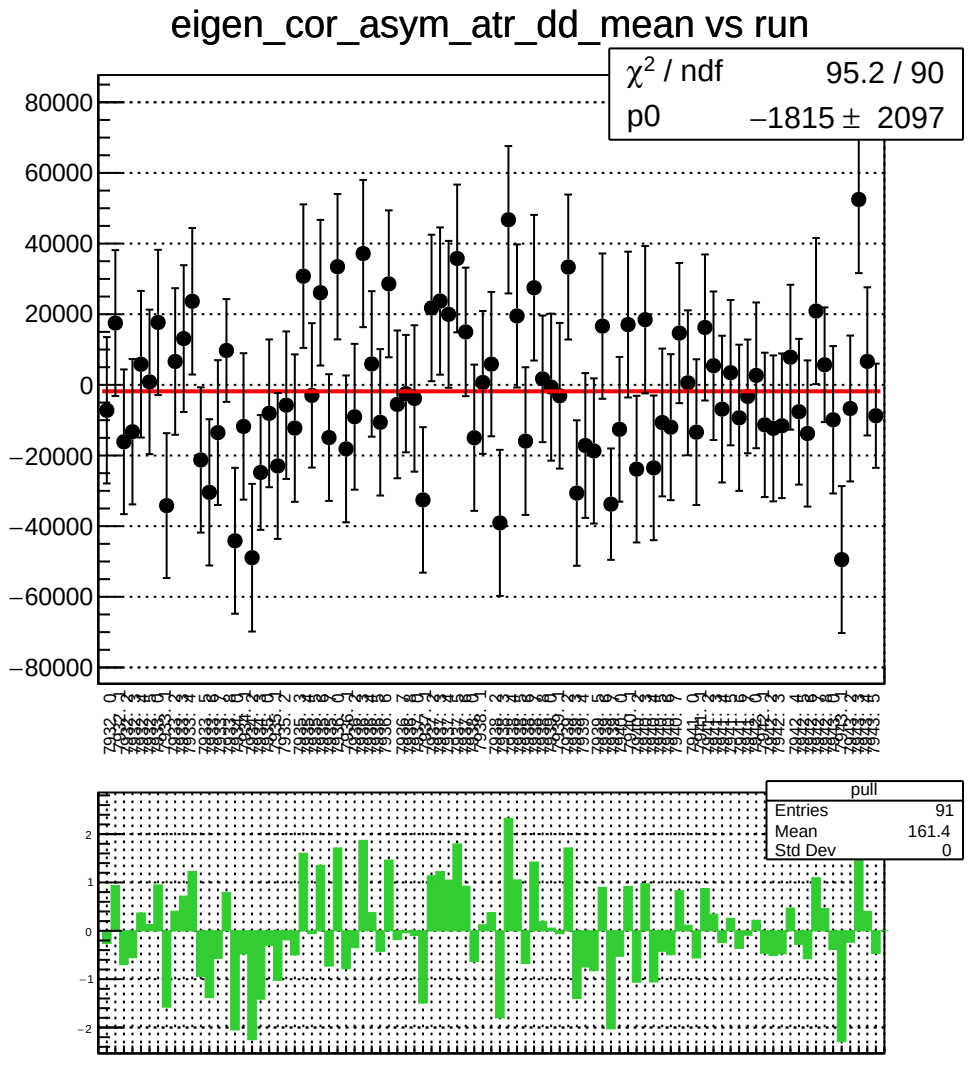

pull1D
Entries 91
Mean 0.008103
Std Dev 1.023

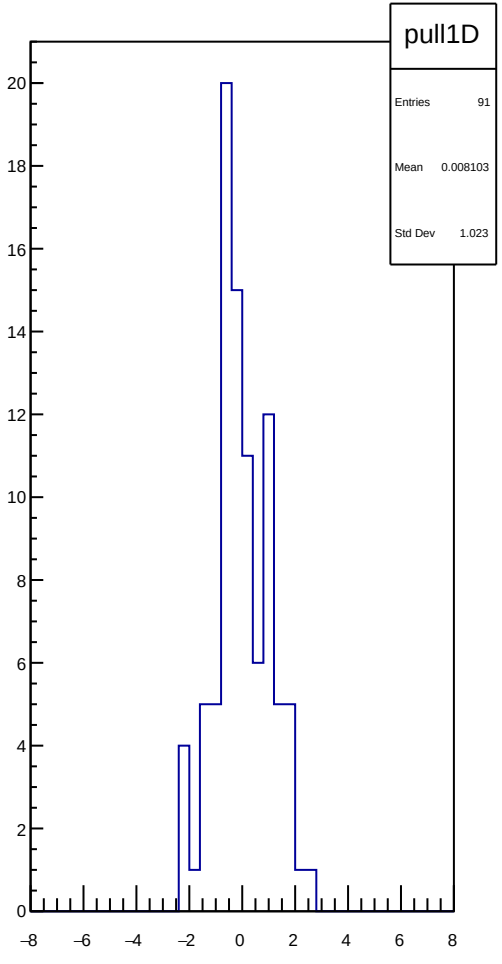

cor_asym_atr_dd_rms vs run
χ^2 / ndf 109.5 / 90
p0 1960 ± 1.483
2000
1980
1960
1940
1920
1900

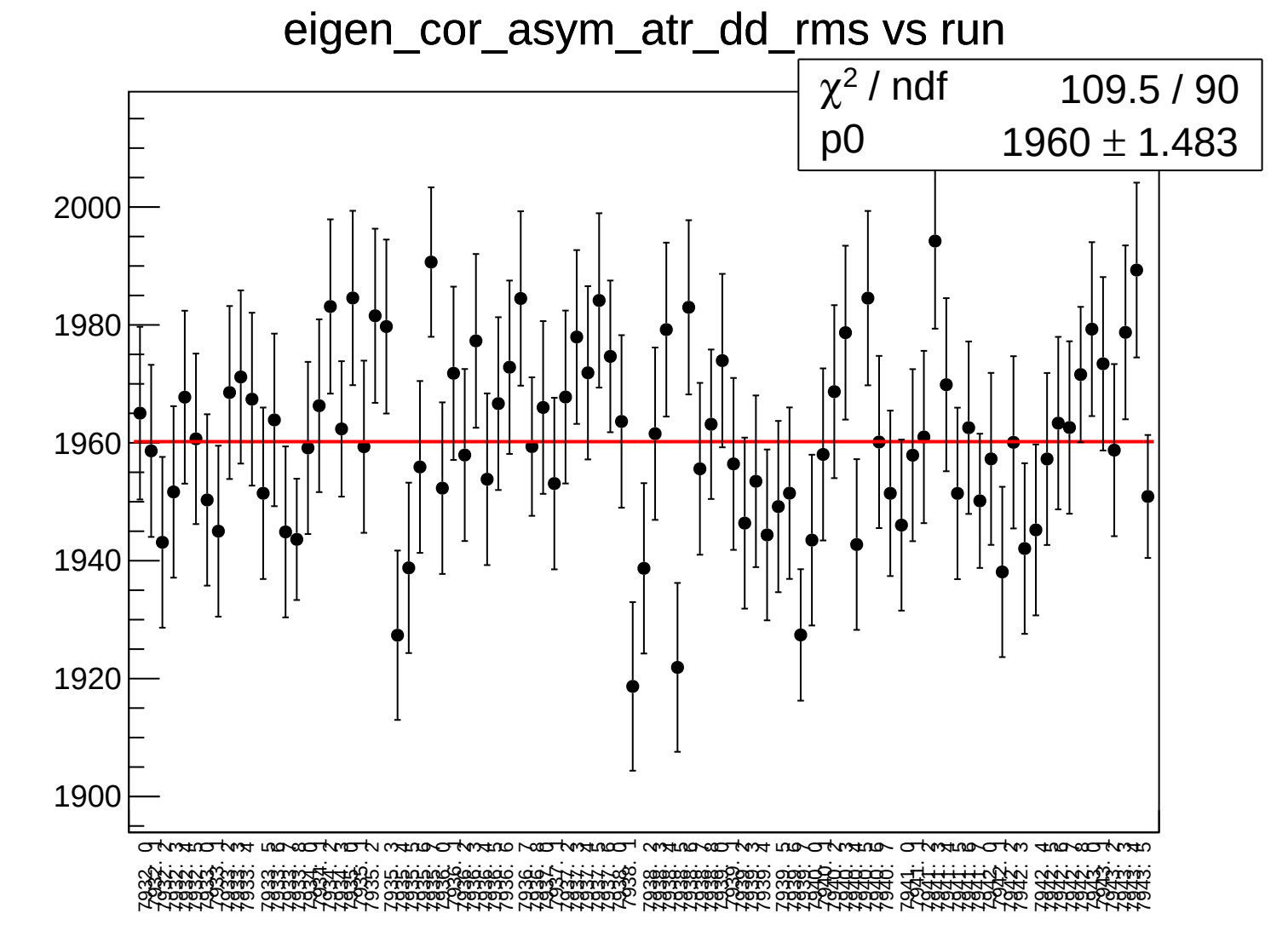

asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.9 / 90
p0 1376 ± 7457
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −206.3
Std Dev 0
2
1
0
−1
−2
−3

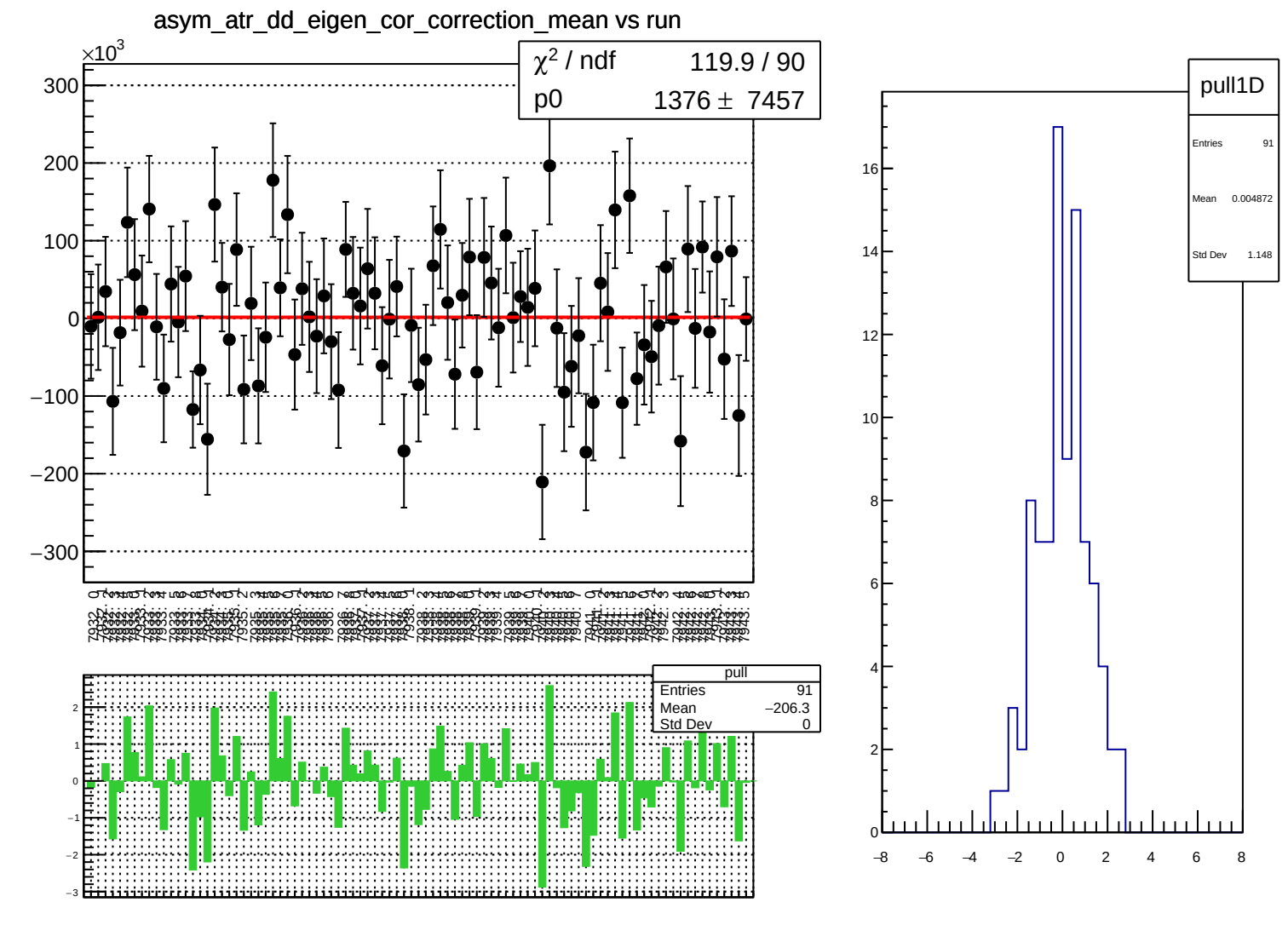

pull1D
Entries 91
Mean 0.004872
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

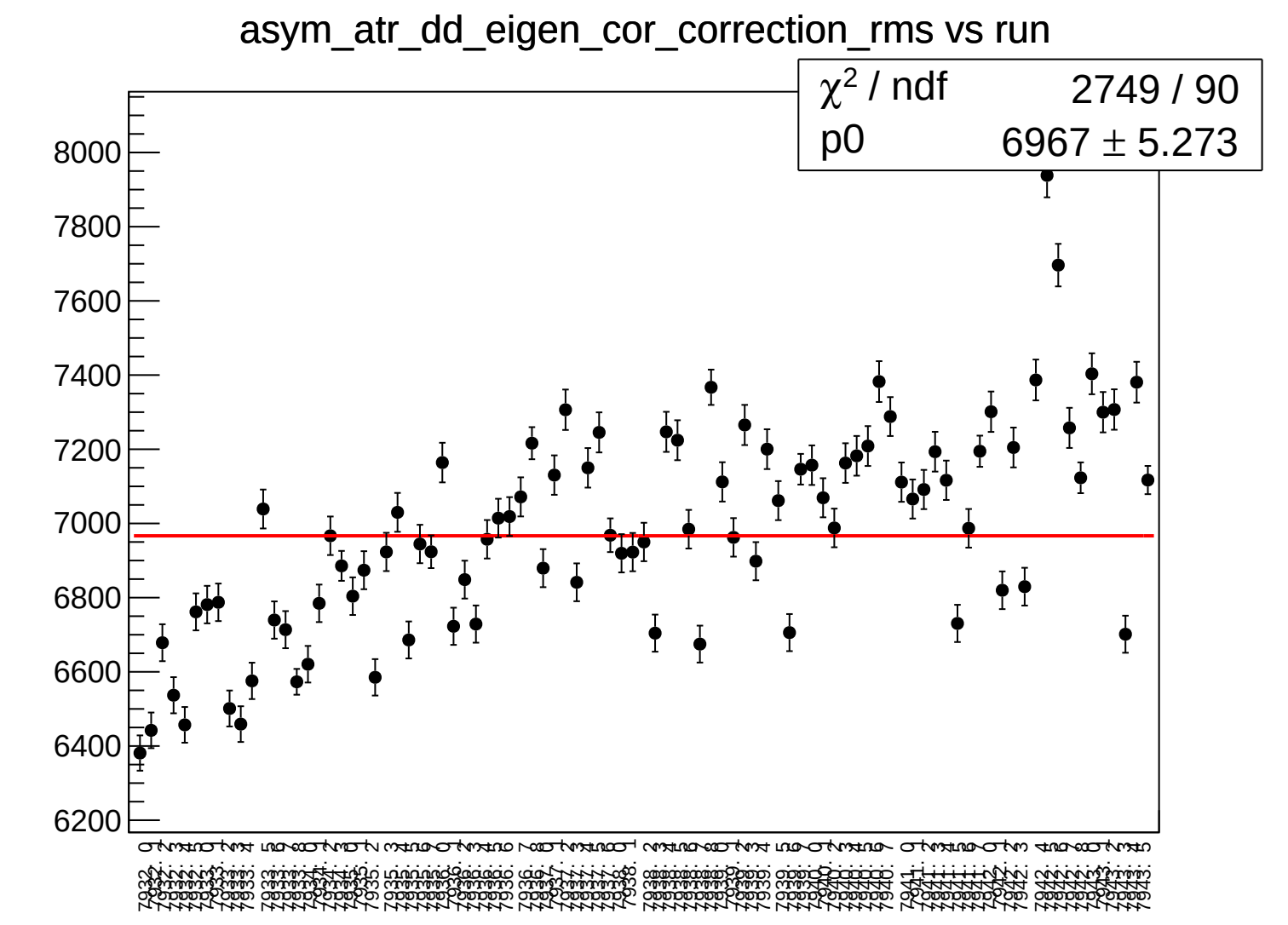

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2749 / 90
p0 6967 ± 5.273
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

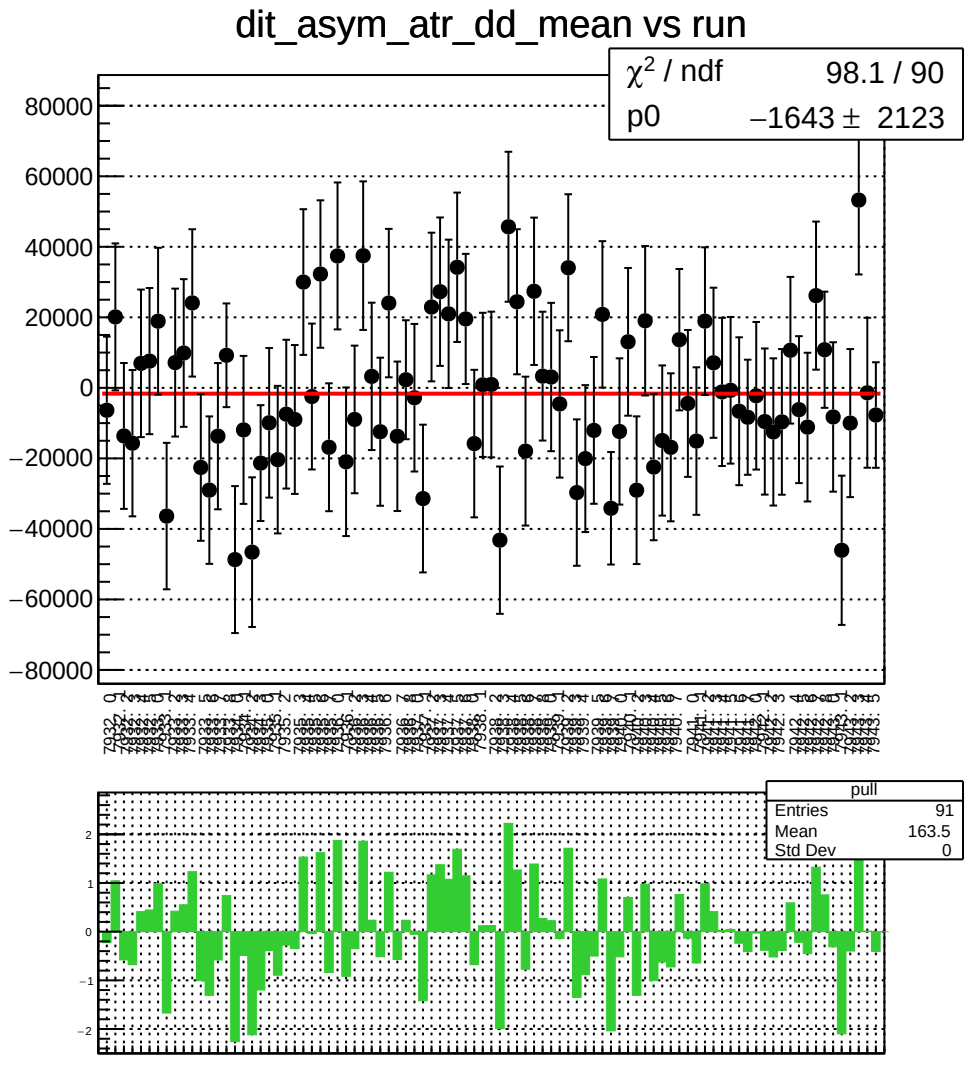

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 95.2 / 90
p0 −1815 ± 2097
pull
Entries 91
Mean 161.4
Std Dev 0

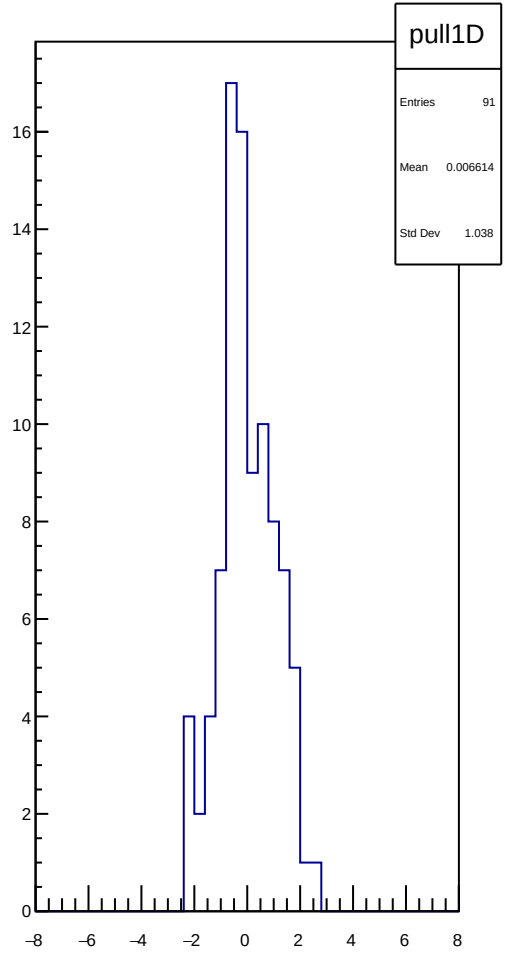

pull1D
Entries 91
Mean 0.008103
Std Dev 1.023

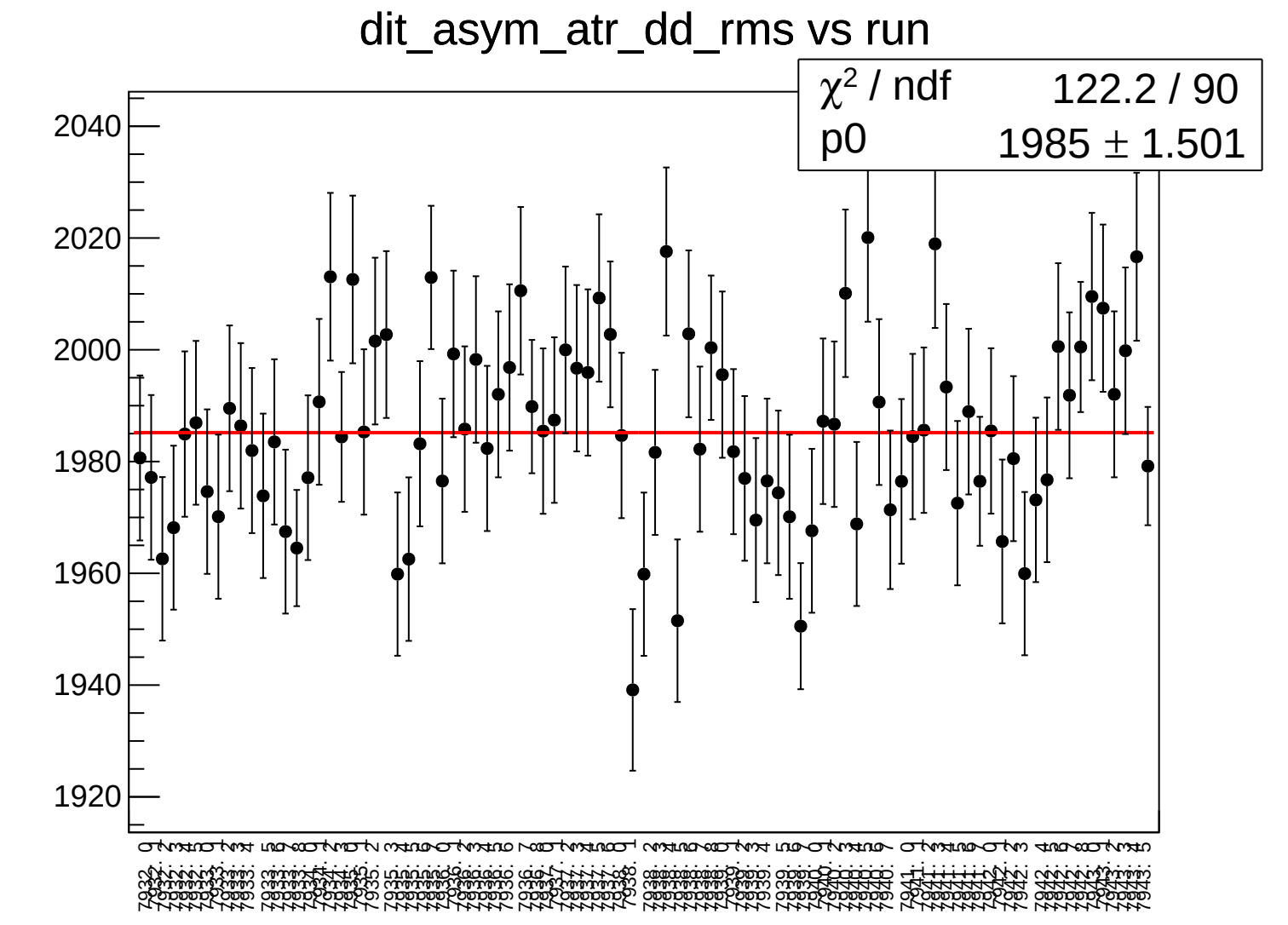

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 109.5 / 90
p0 1960 ± 1.483
2000
1980
1960
1940
1920
1900

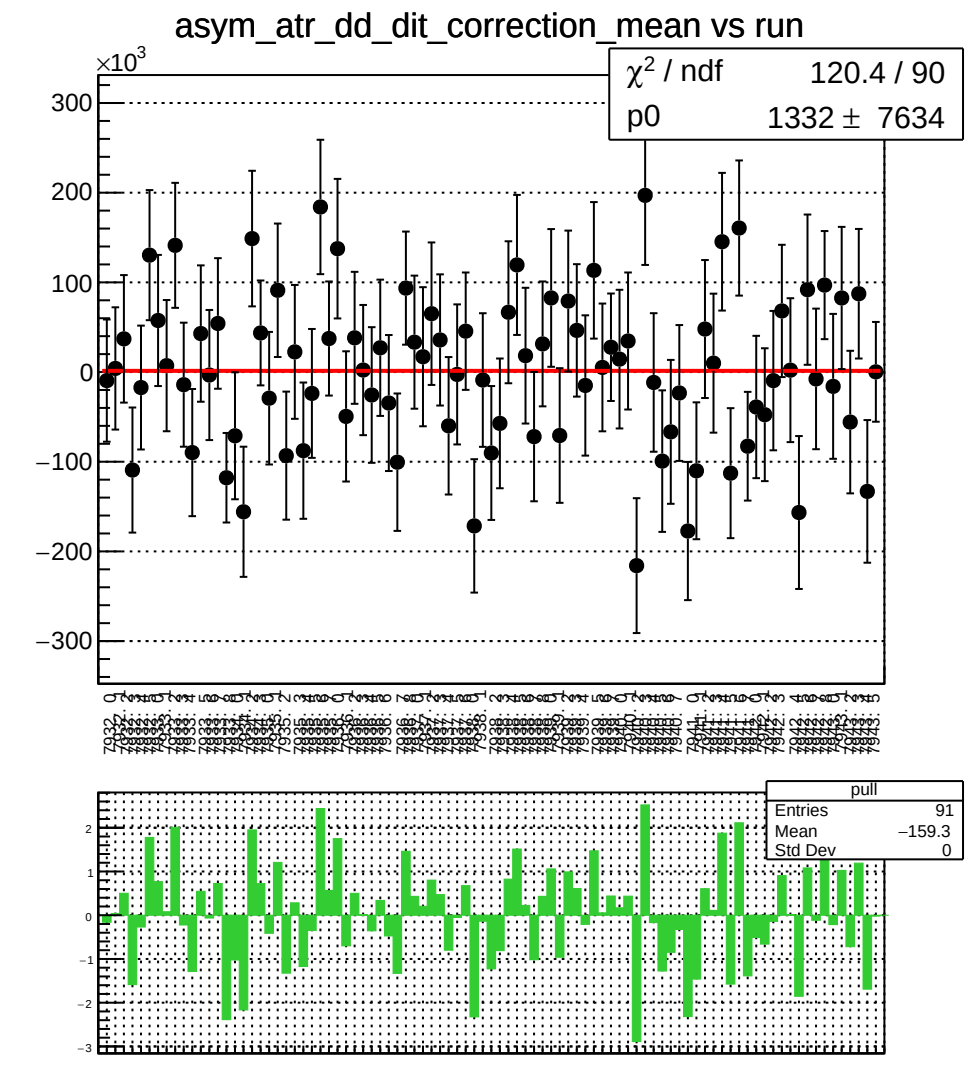

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.9 / 90
p0 1376 ± 7457
pull
Entries 91
Mean −206.3
Std Dev 0
pull1D
Entries 91
Mean 0.004872
Std Dev 1.148

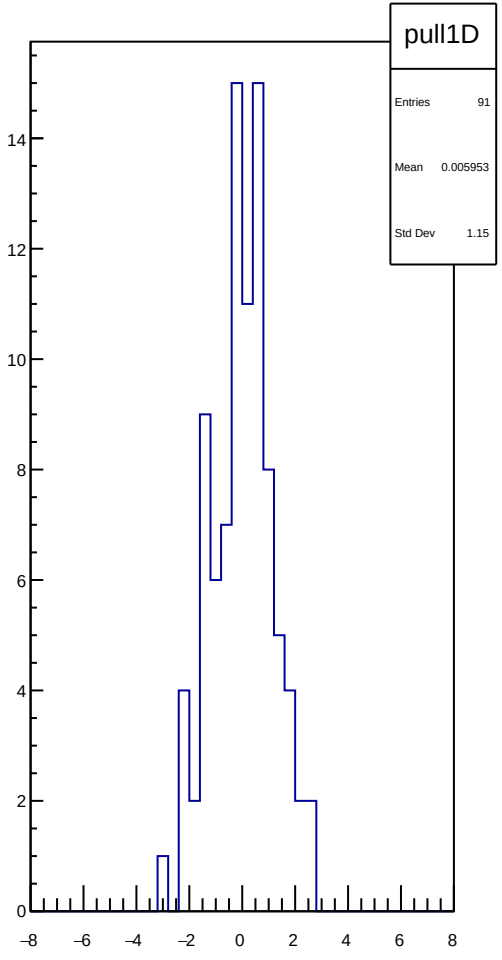

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2749 / 90
p0 6967 ± 5.273
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

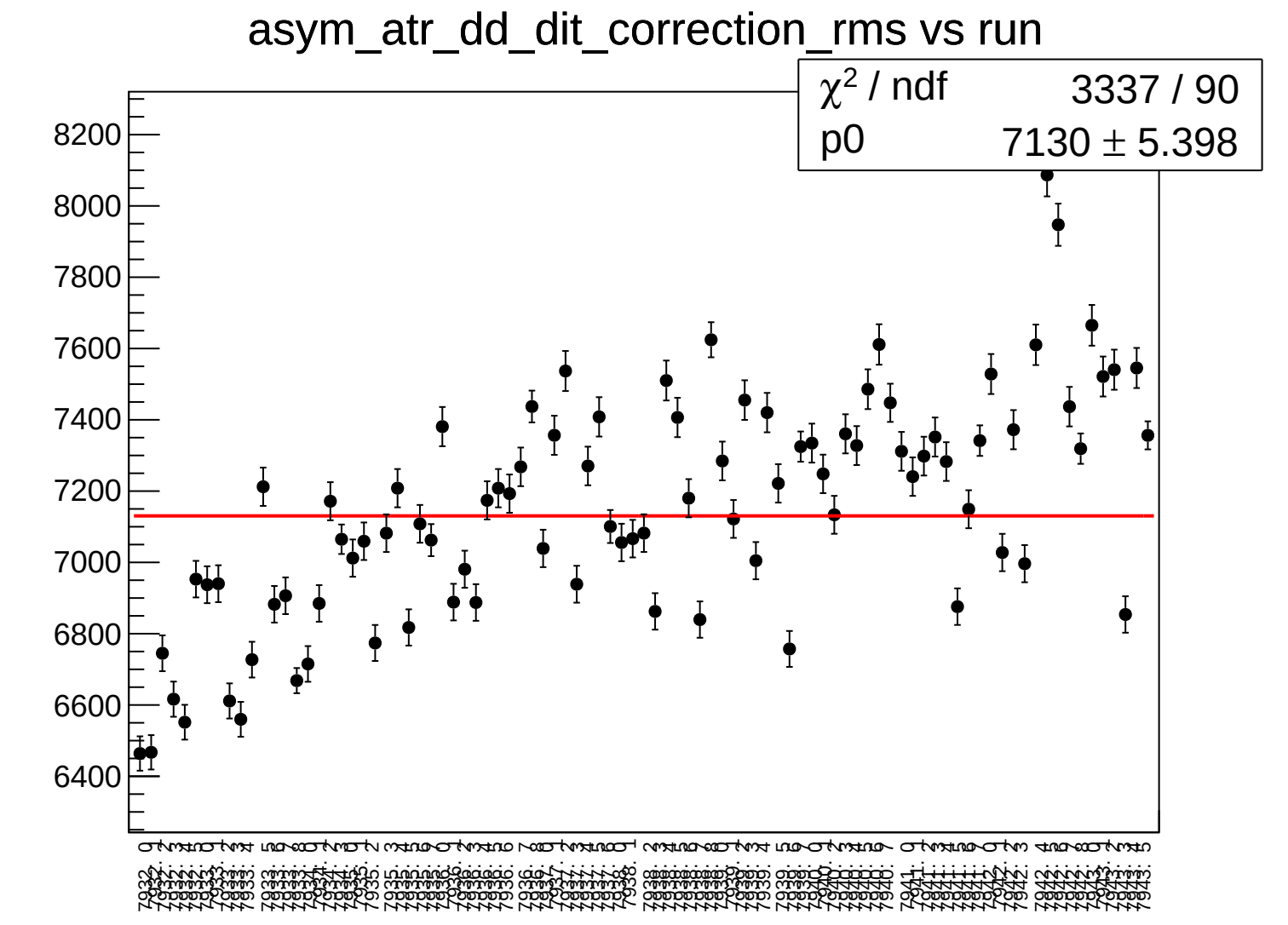

dit_asym_atr_dd_mean vs run
χ² / ndf 98.1 / 90
p0 −1643 ± 2123
pull
Entries 91
Mean 163.5
Std Dev 0

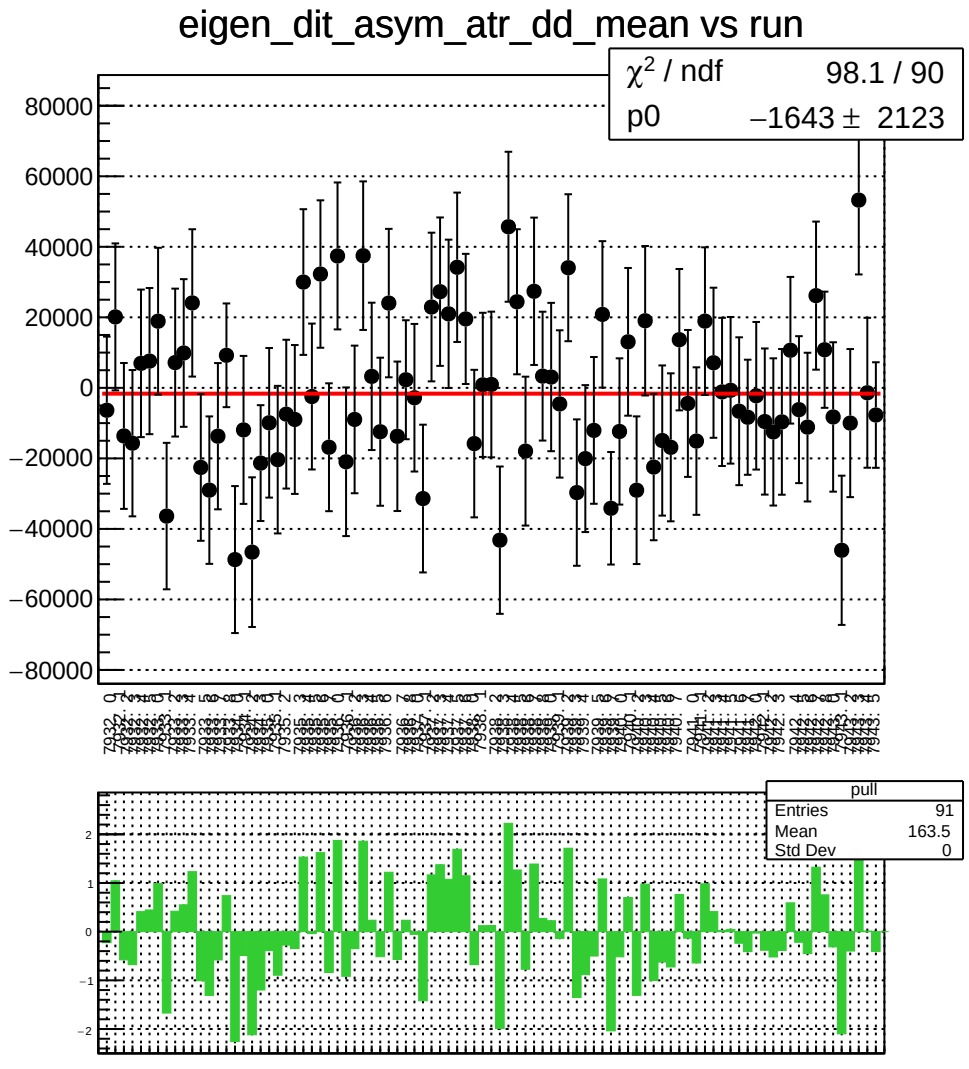

pull1D
Entries 91
Mean 0.006614
Std Dev 1.038

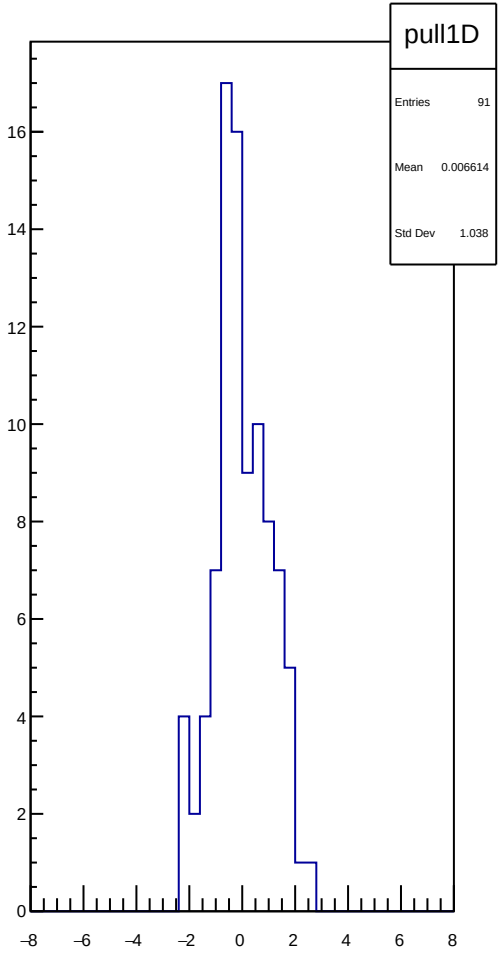

dit_asym_atr_dd_rms vs run
χ² / ndf 122.2 / 90
p0 1985 ± 1.501
2040
2020
2000
1980
1960
1940
1920

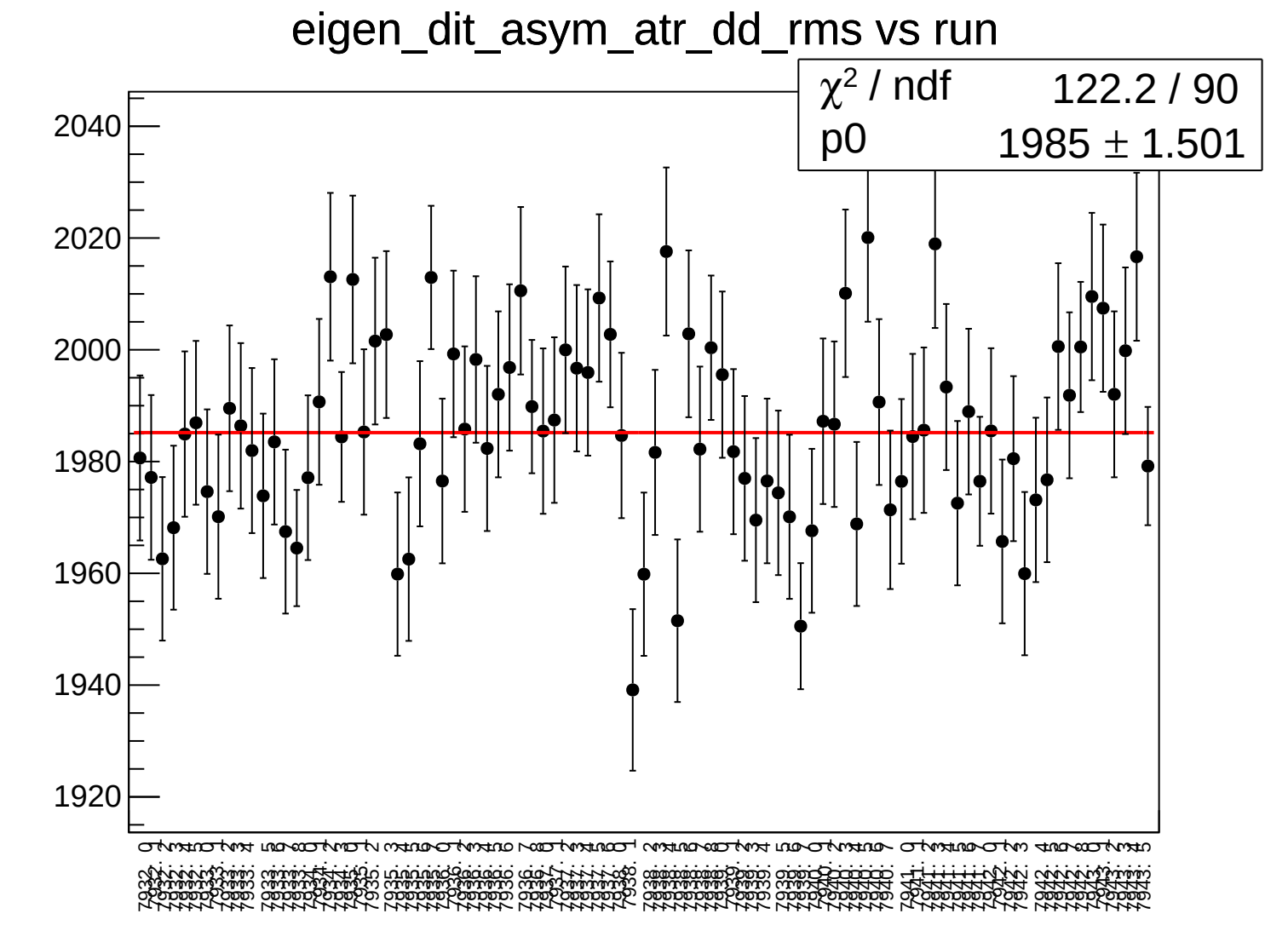

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1332 ± 7634
pull
Entries 91
Mean −159.3
Std Dev 0

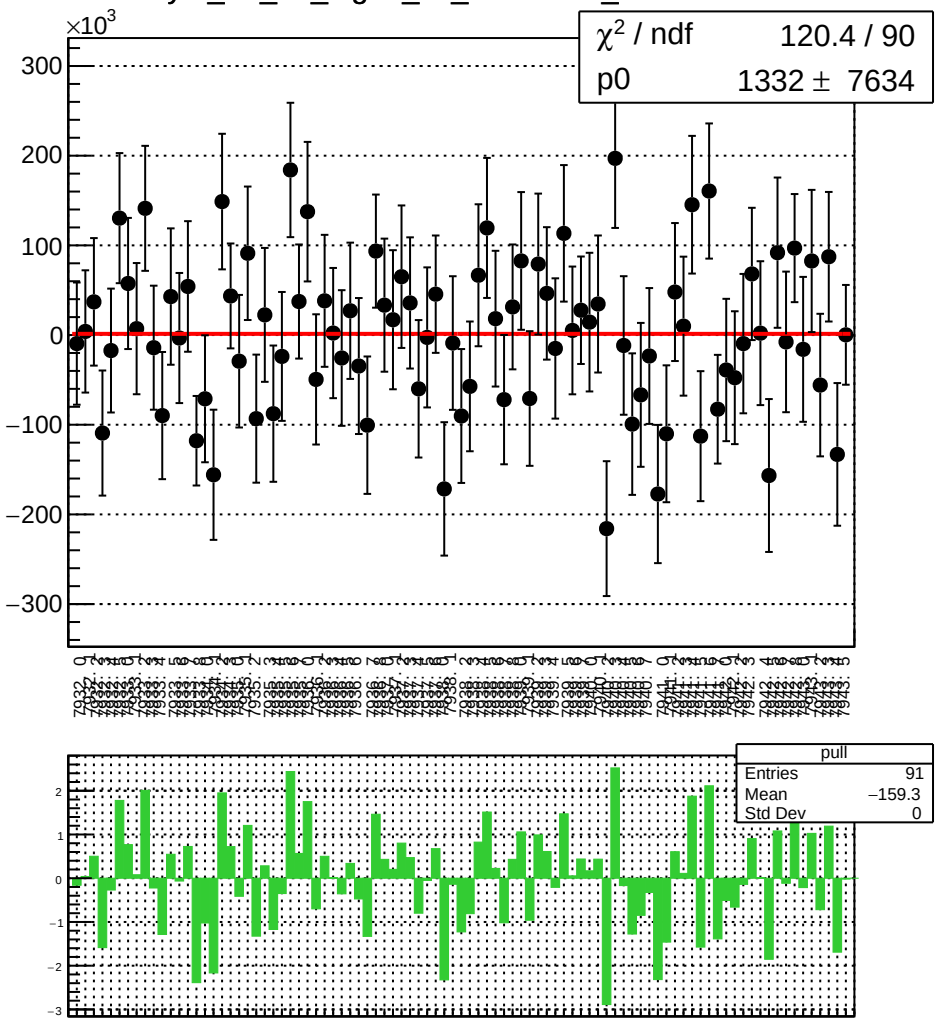

pull1D
Entries 91
Mean 0.005953
Std Dev 1.15

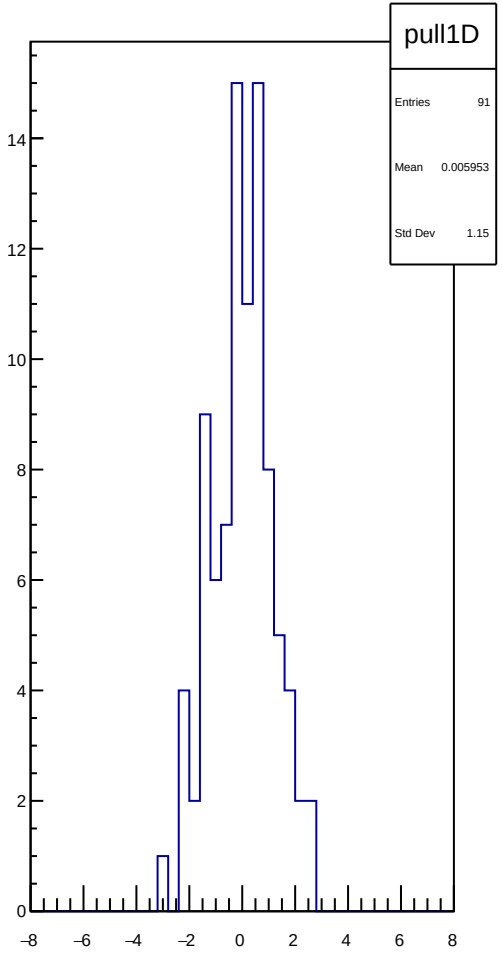

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 3337 / 90
p0 7130 ± 5.398
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

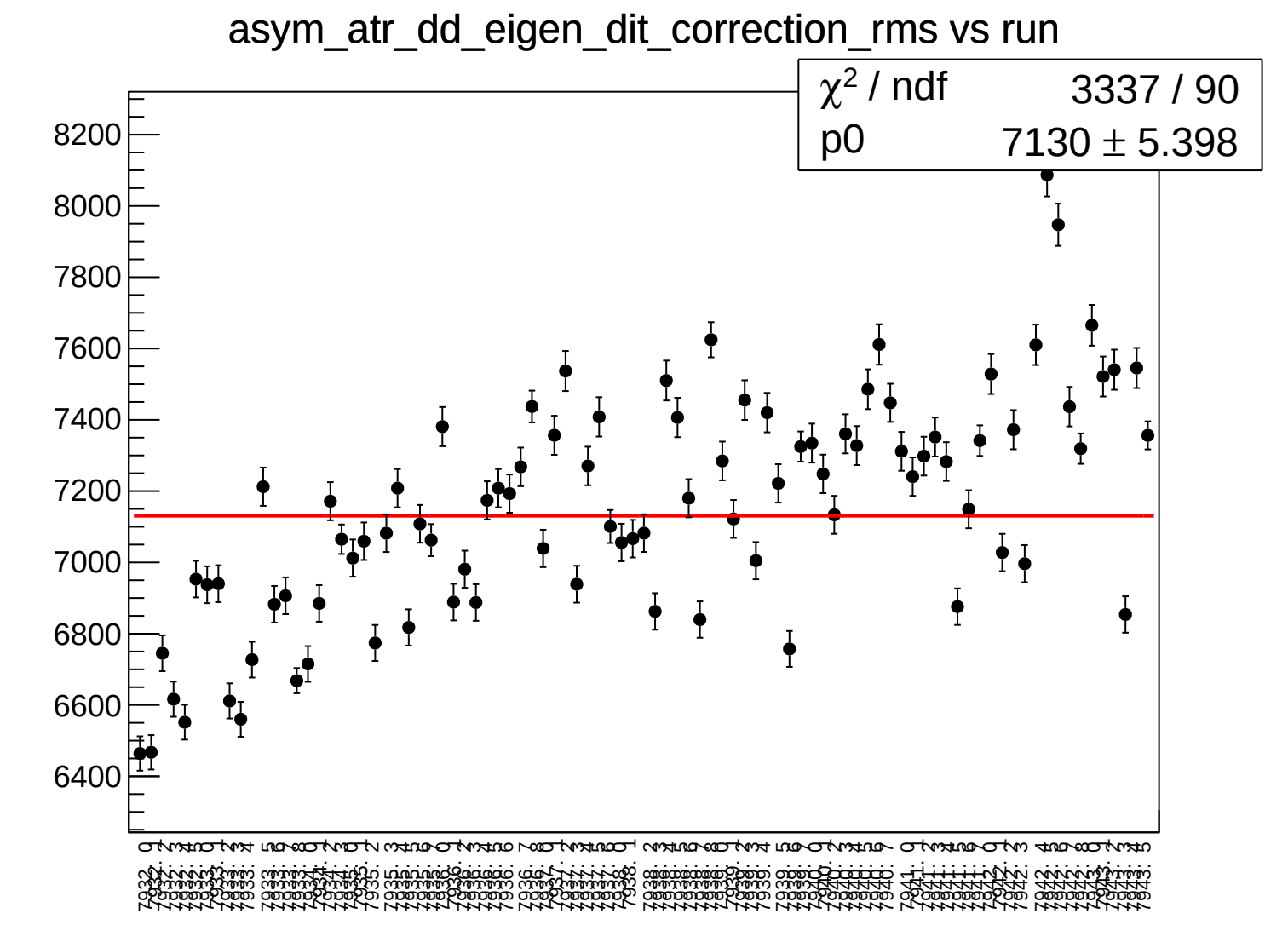

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 98.1 / 90
p0 −1643 ± 2123
pull
Entries 91
Mean 163.5
Std Dev 0

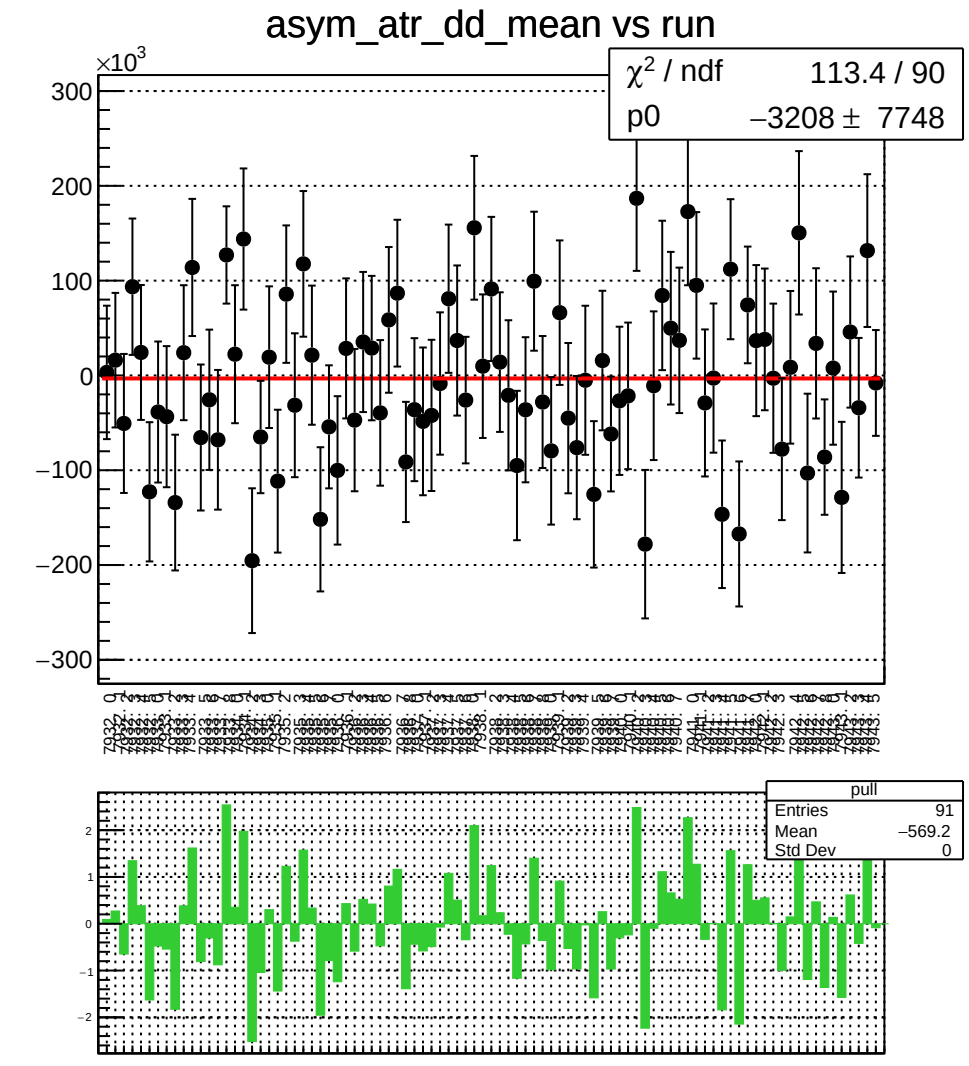

pull1D
Entries 91
Mean 0.006614
Std Dev 1.038

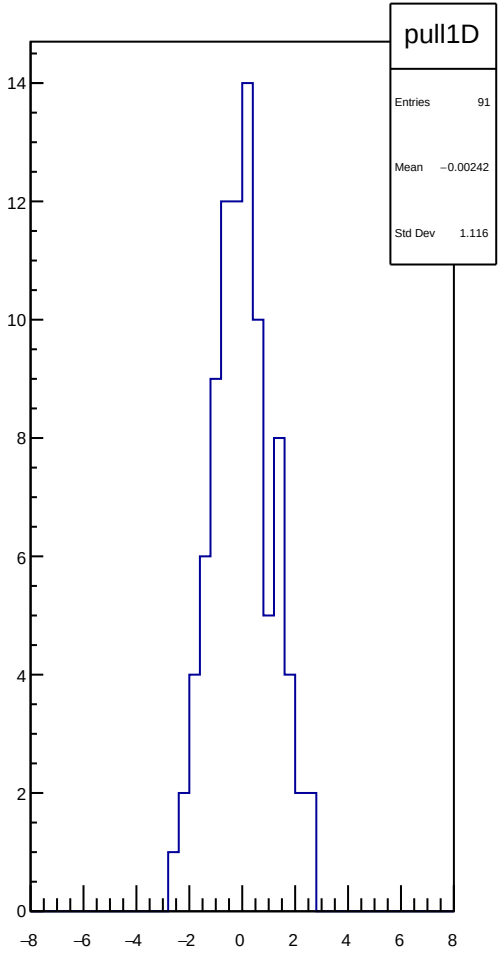

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 122.2 / 90
p0 1985 ± 1.501
2040
2020
2000
1980
1960
1940
1920

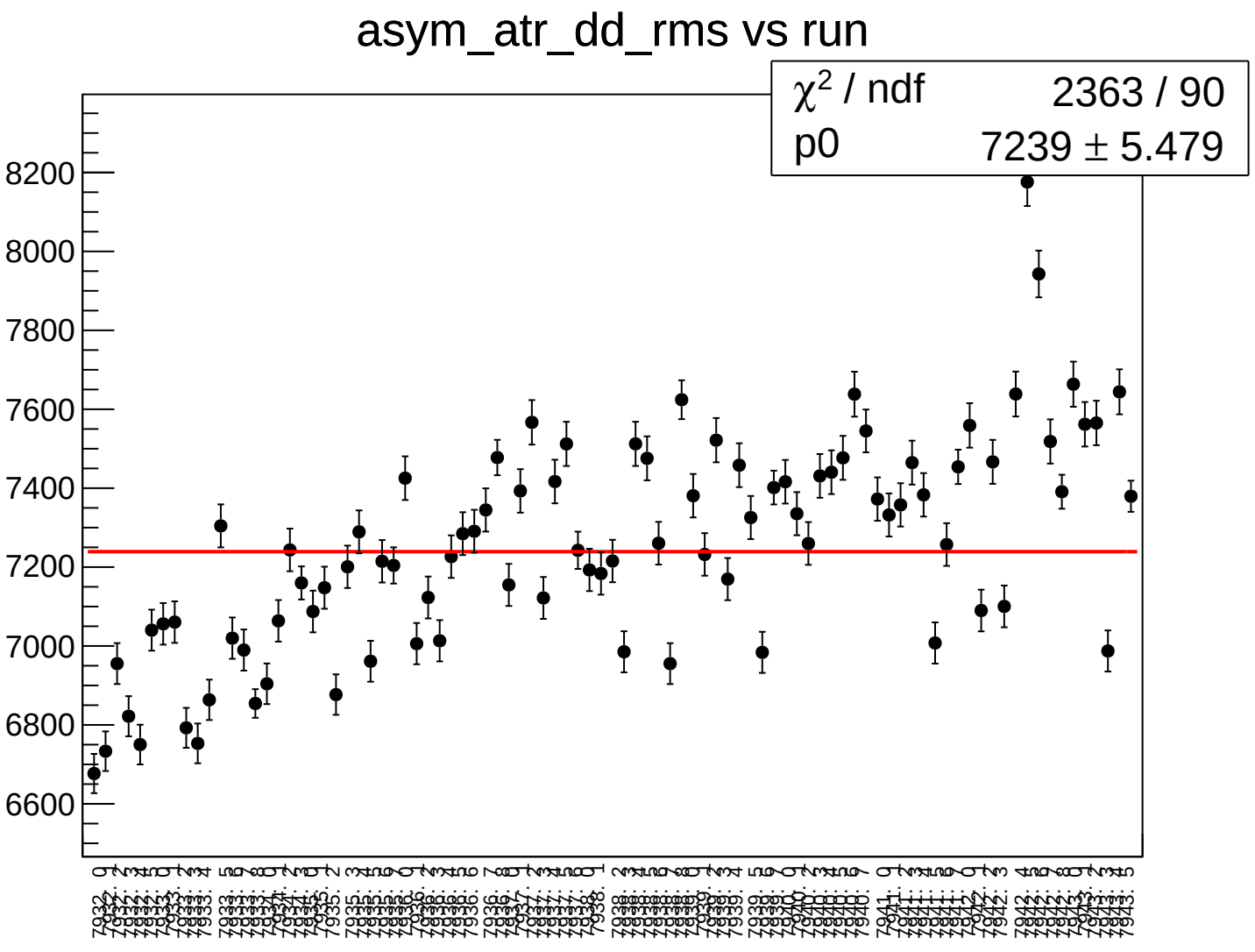

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 120.4 / 90
p0 1332 ± 7634
pull
Entries 91
Mean −159.3
Std Dev 0

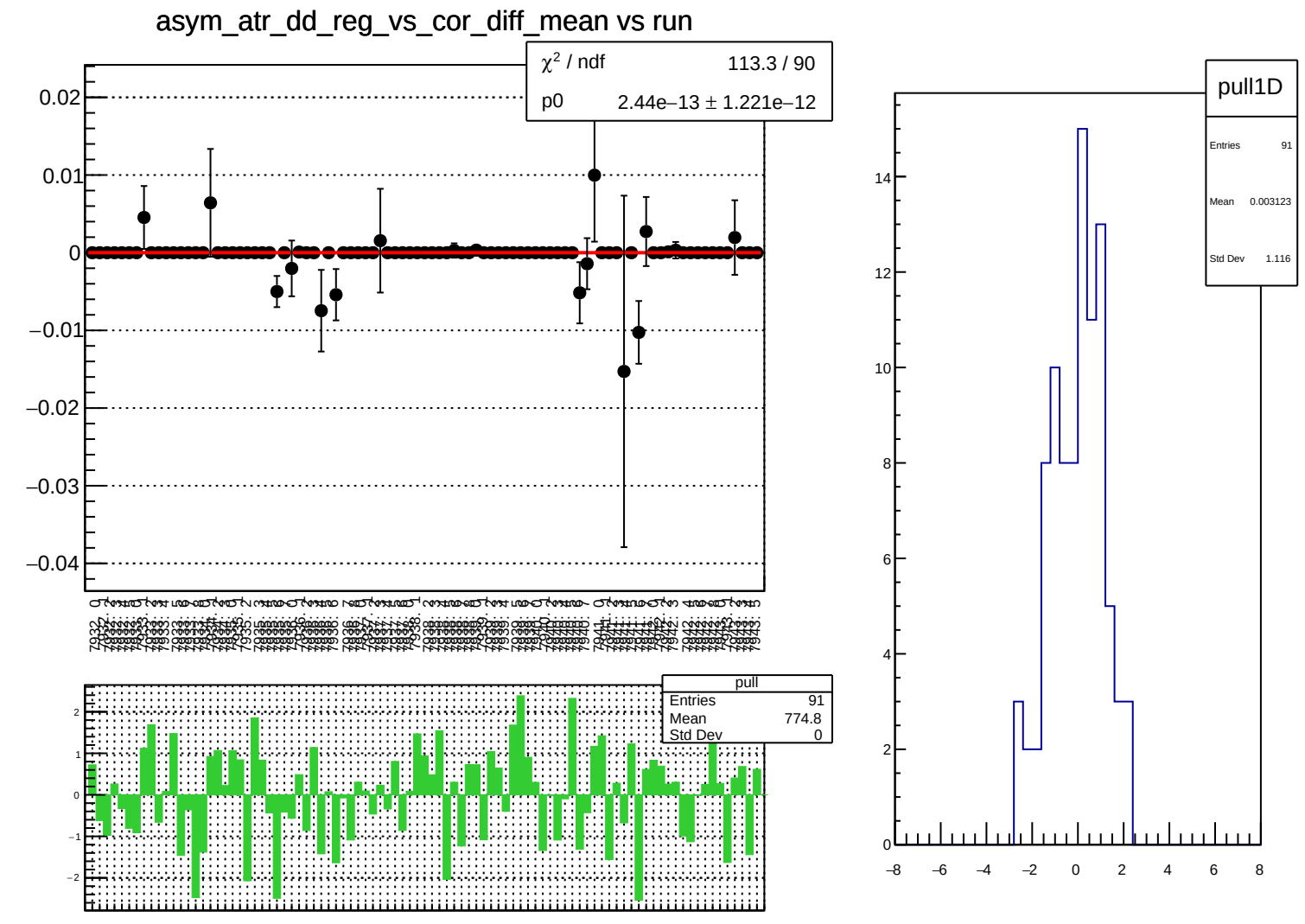

pull1D
Entries 91
Mean 0.005953
Std Dev 1.15

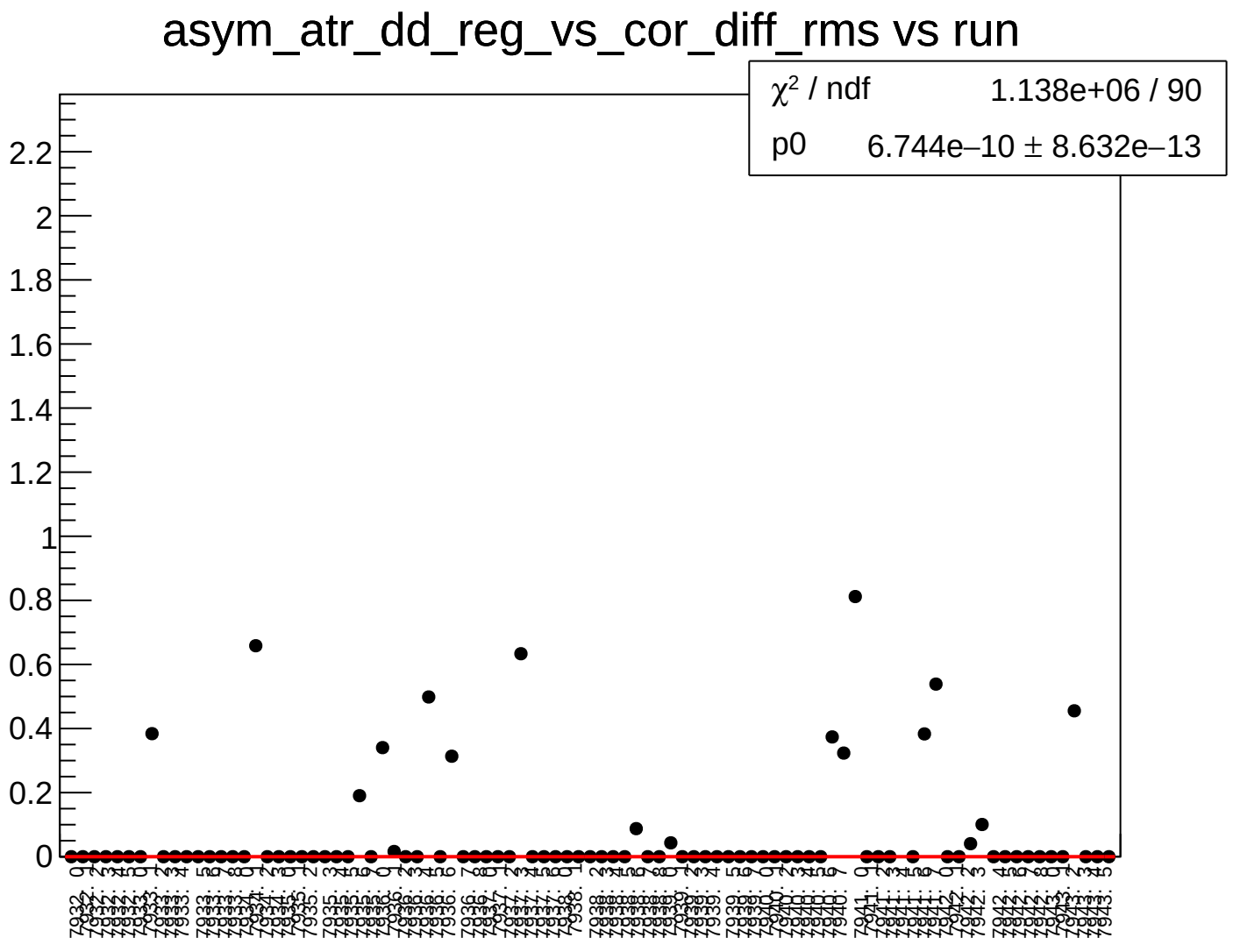

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3337 / 90
p0 7130 ± 5.398
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

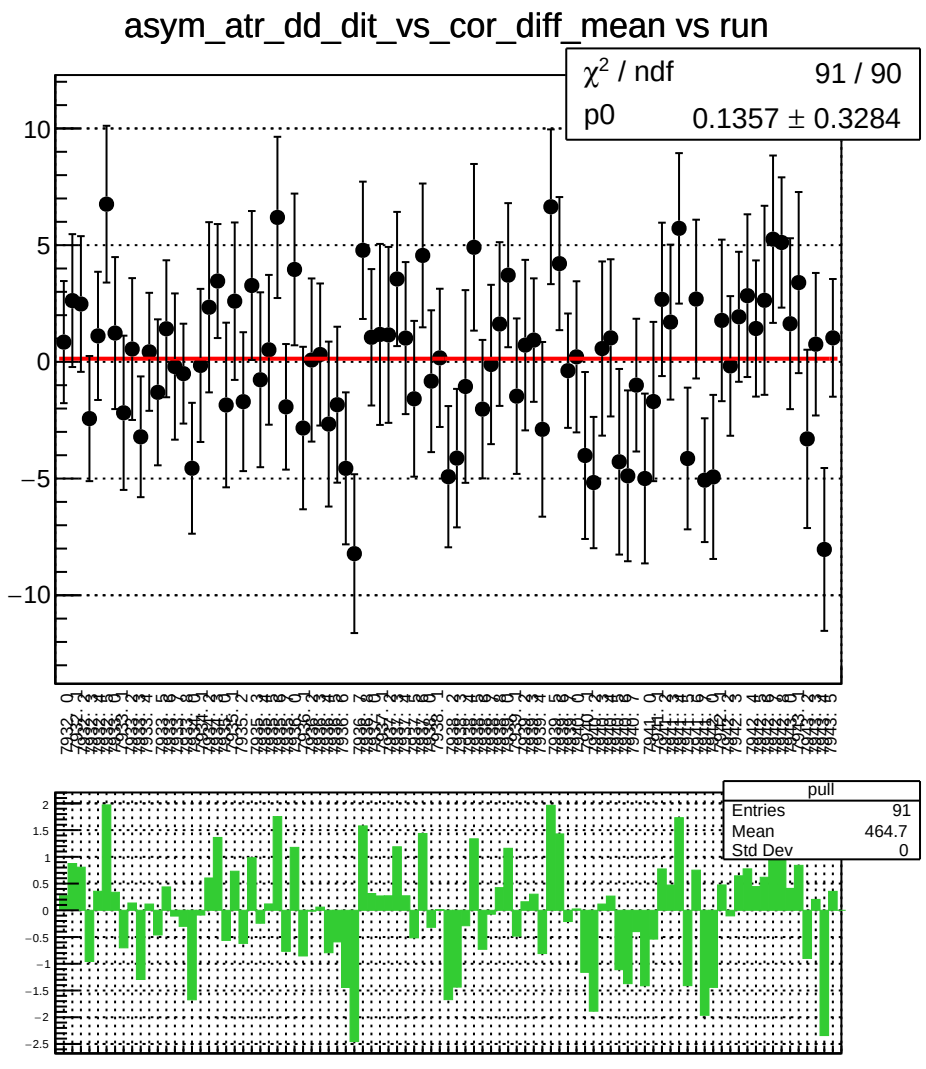

asym_atr_dd_mean vs run
×10^3
χ² / ndf 113.4 / 90
p0 −3208 ± 7748
pull
Entries 91
Mean −569.2
Std Dev 0

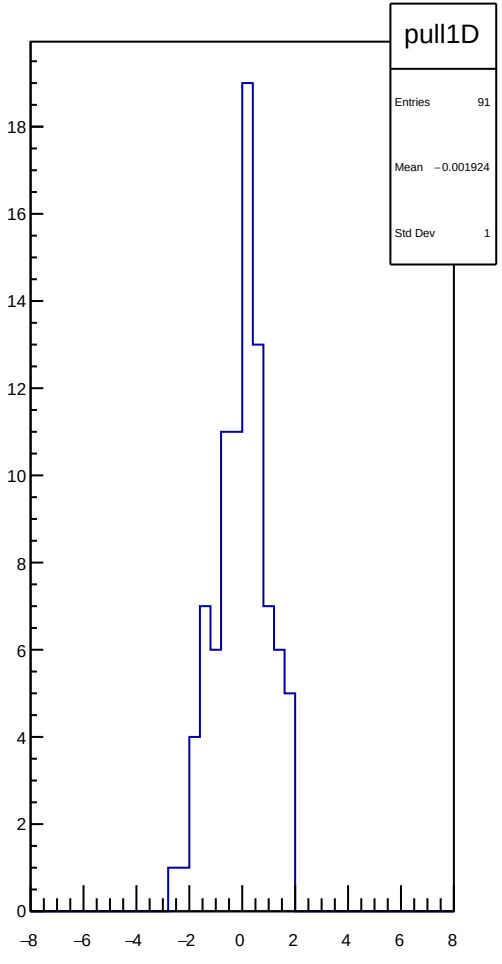

pull1D
Entries 91
Mean −0.00242
Std Dev 1.116

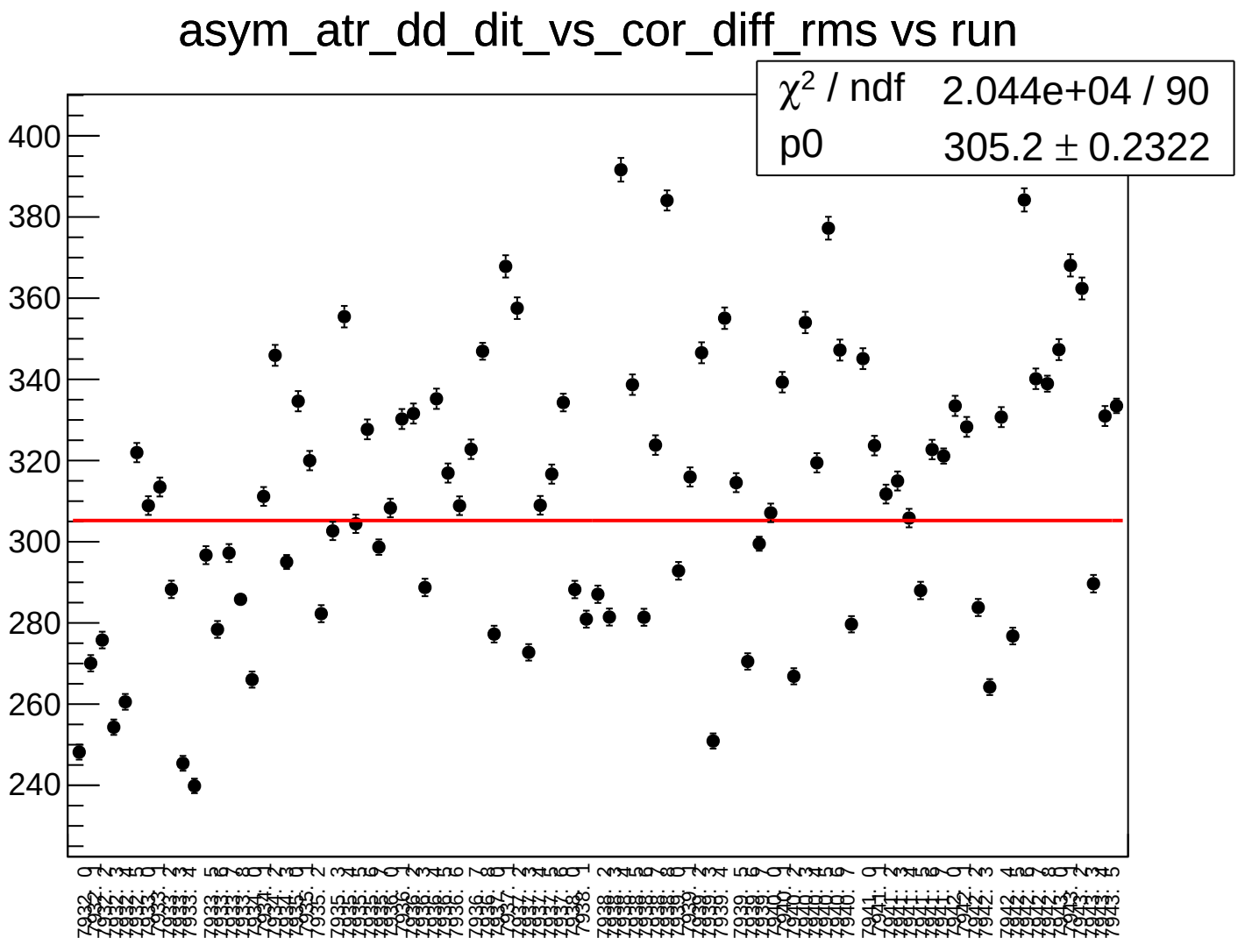

asym_atr_dd_rms vs run
χ² / ndf 2363 / 90
p0 7239 ± 5.479
8200
8000
7800
7600
7400
7200
7000
6800
6600

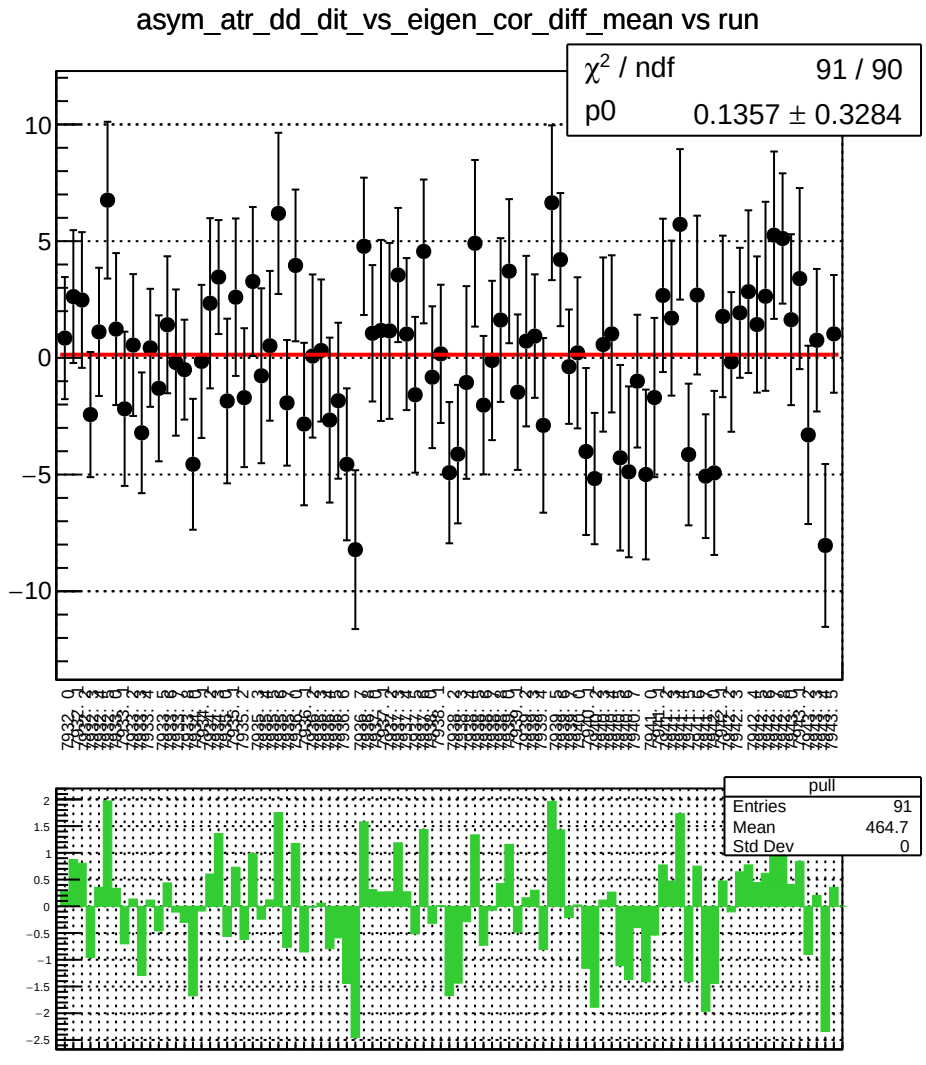

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 90
p0 2.44e−13 ± 1.221e−12
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 91
Mean 774.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.003123
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

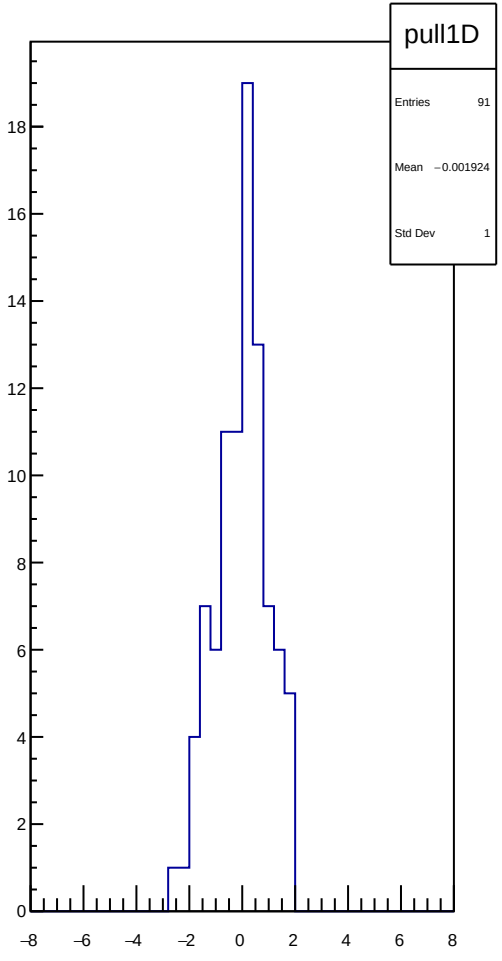

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.138e+06 / 90
p0 6.744e−10 ± 8.632e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

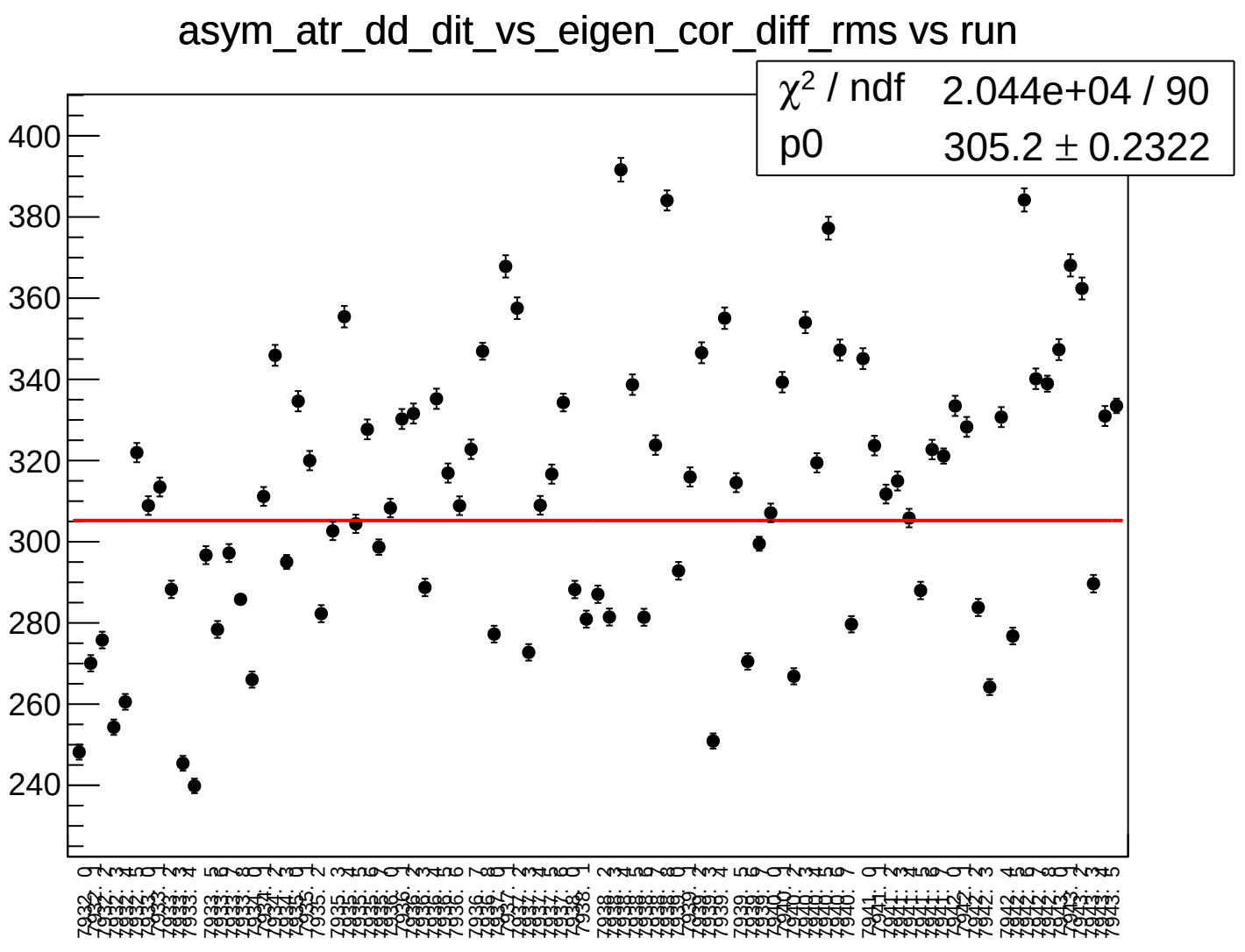

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91 / 90
p0 0.1357 ± 0.3284
pull
Entries 91
Mean 464.7
Std Dev 0

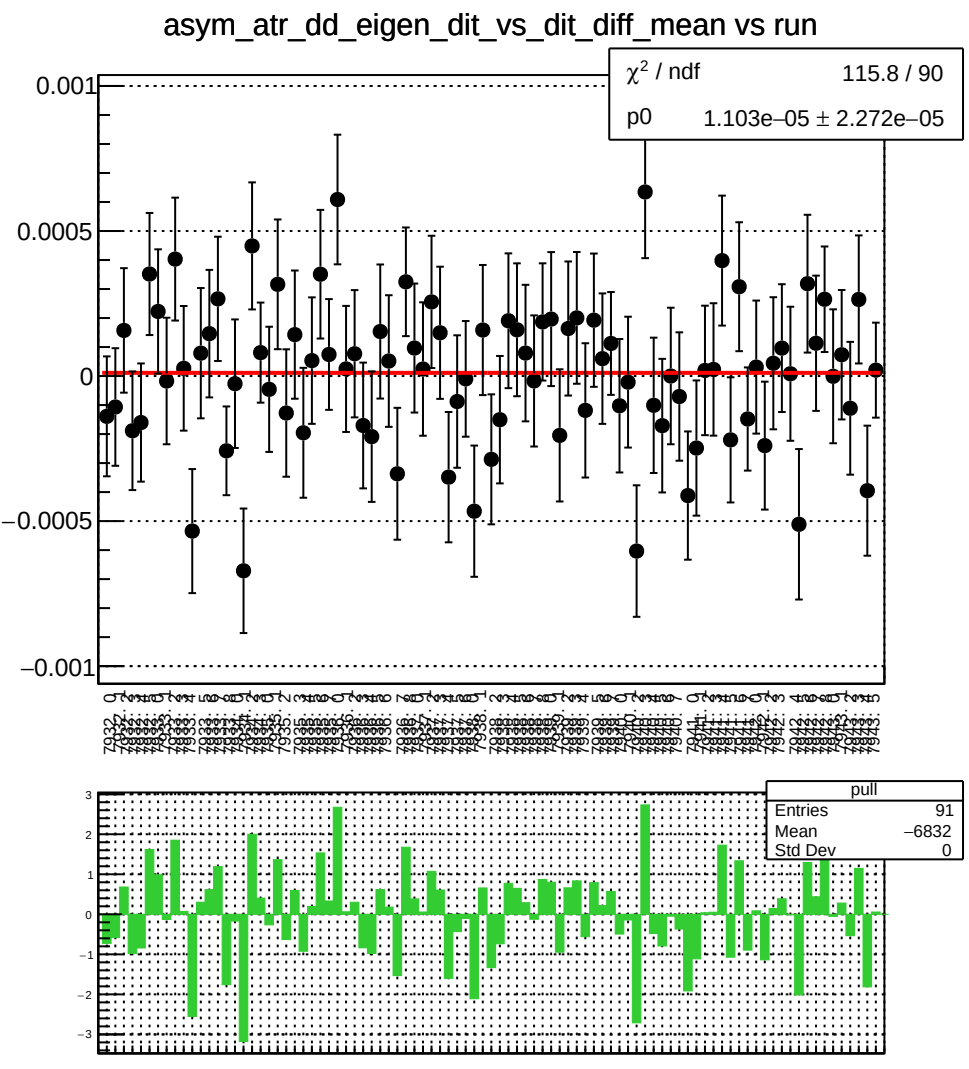

pull1D
Entries 91
Mean −0.001924
Std Dev 1

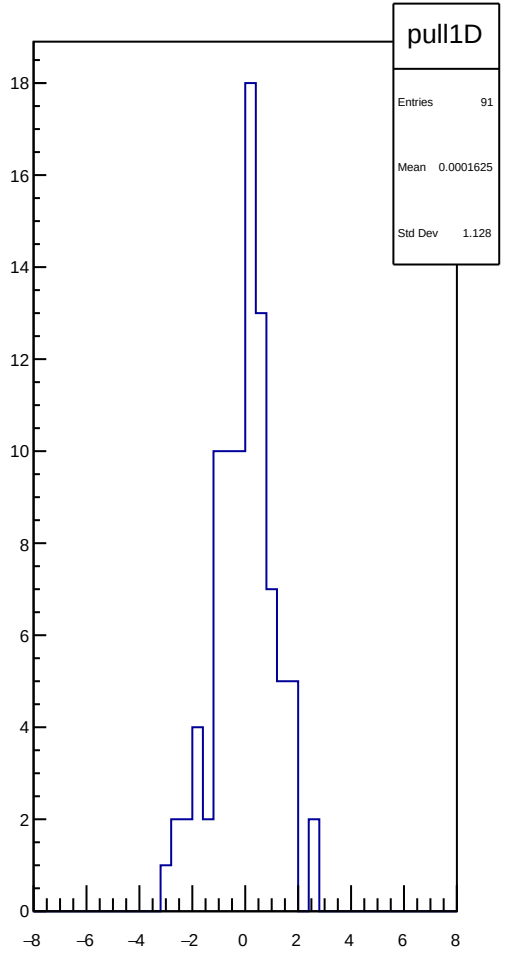

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.044e+04 / 90
p0 305.2 ± 0.2322
400
380
360
340
320
300
280
260
240

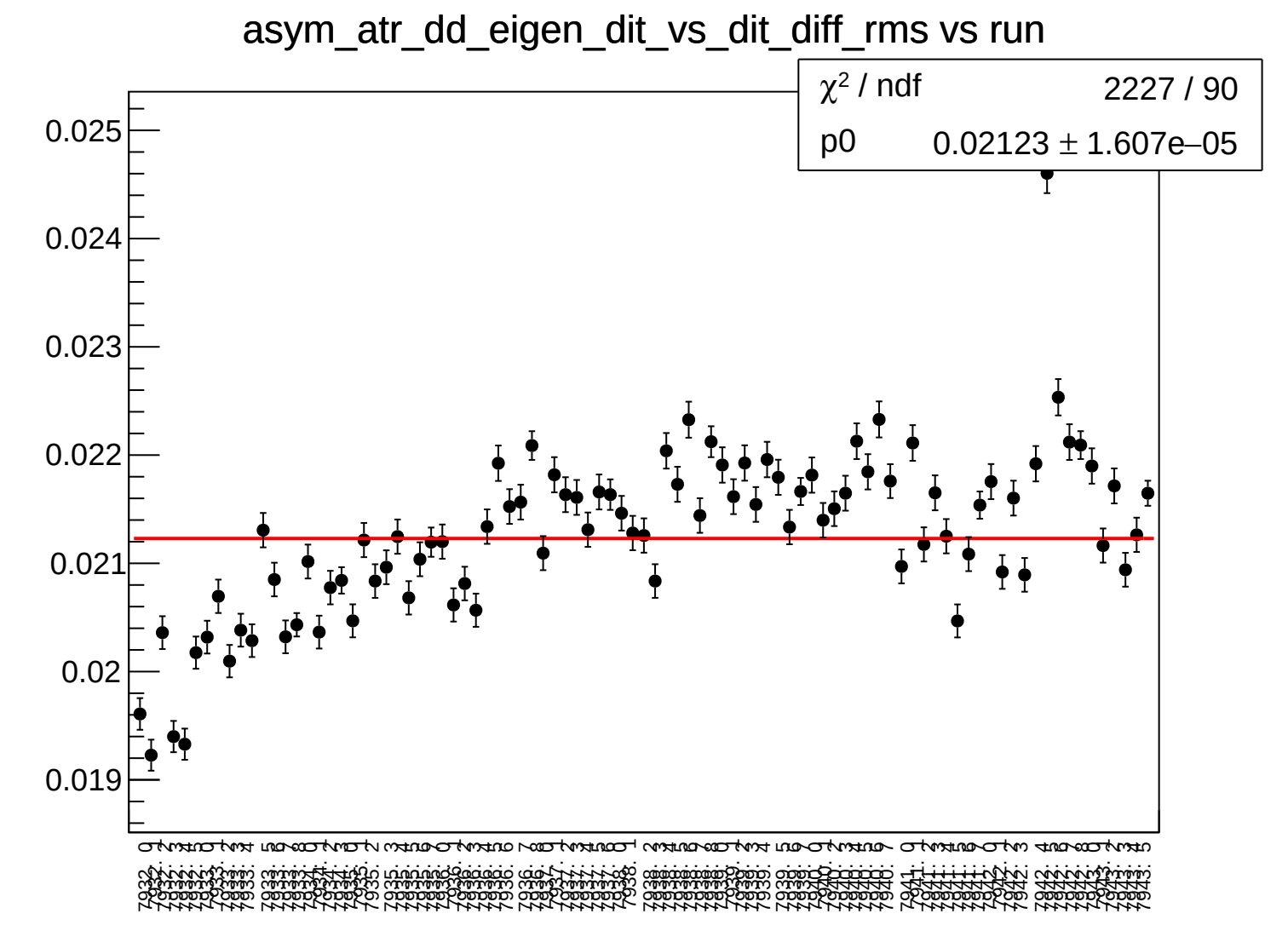

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91 / 90
p0 0.1357 ± 0.3284
pull
Entries 91
Mean 464.7
Std Dev 0

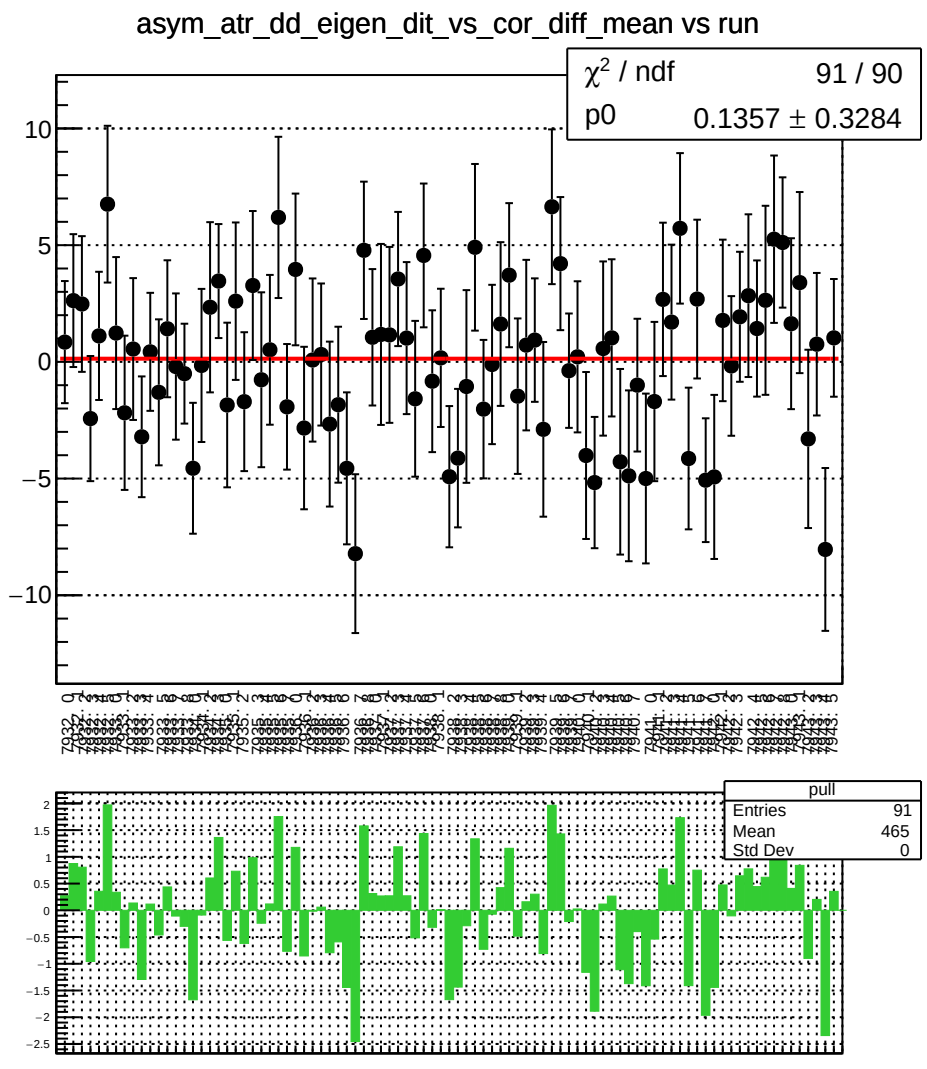

pull1D
Entries 91
Mean −0.001924
Std Dev 1

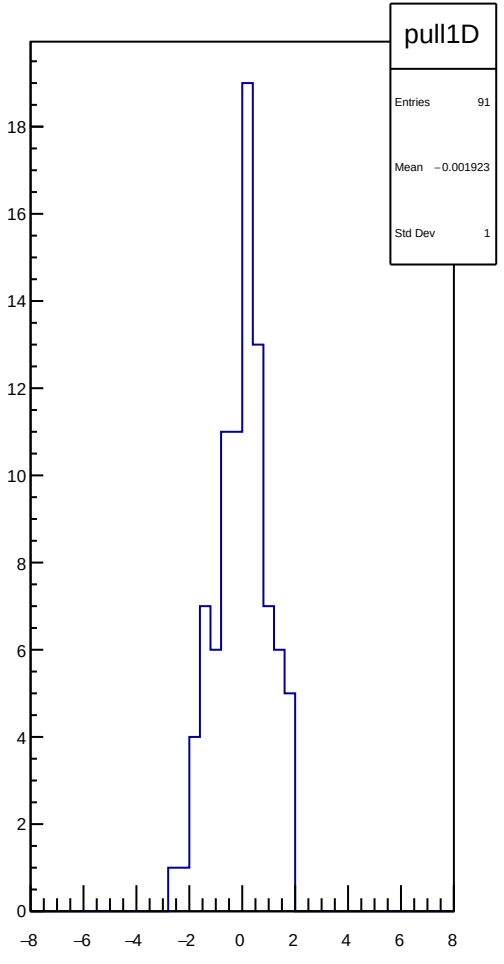

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.044e+04 / 90
p0 305.2 ± 0.2322
400
380
360
340
320
300
280
260
240

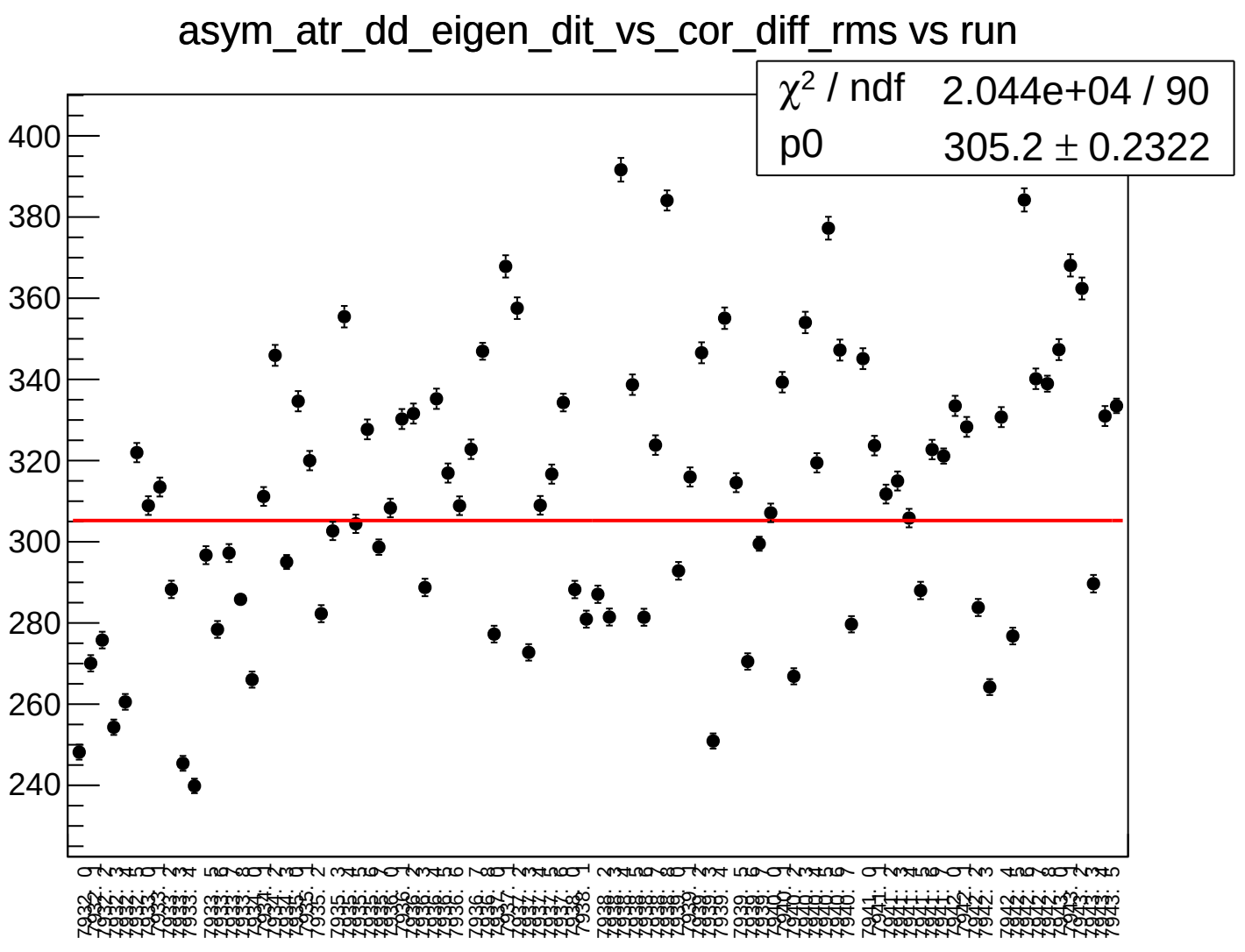

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.8 / 90
p0 1.103e−05 ± 2.272e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −6832
Std Dev 0
3
2
1
0
−1
−2
−3

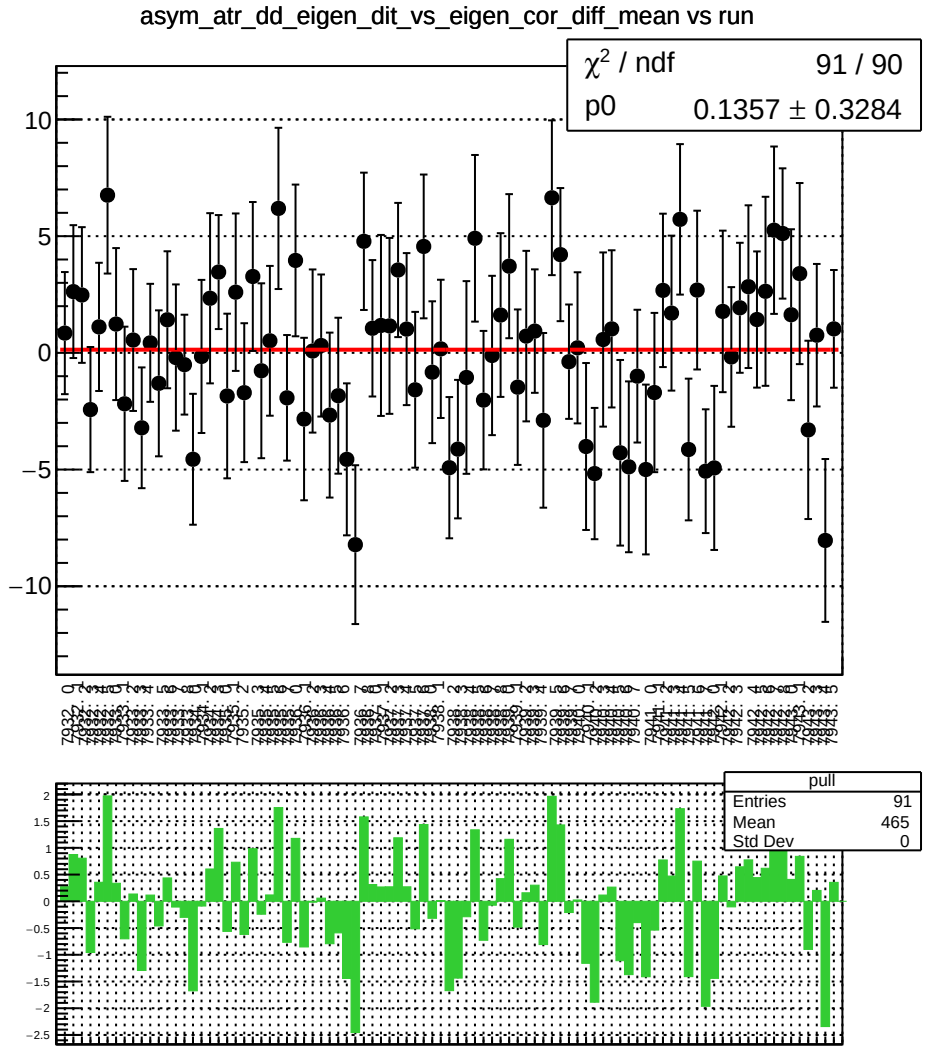

pull1D
Entries 91
Mean 0.0001625
Std Dev 1.128
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

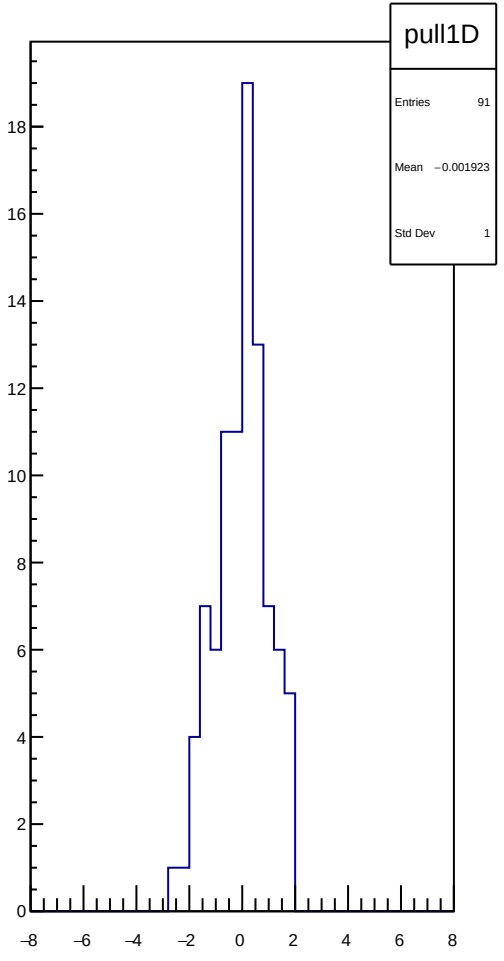

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2227 / 90
p0 0.02123 ± 1.607e–05
0.025
0.024
0.023
0.022
0.021
0.02
0.019

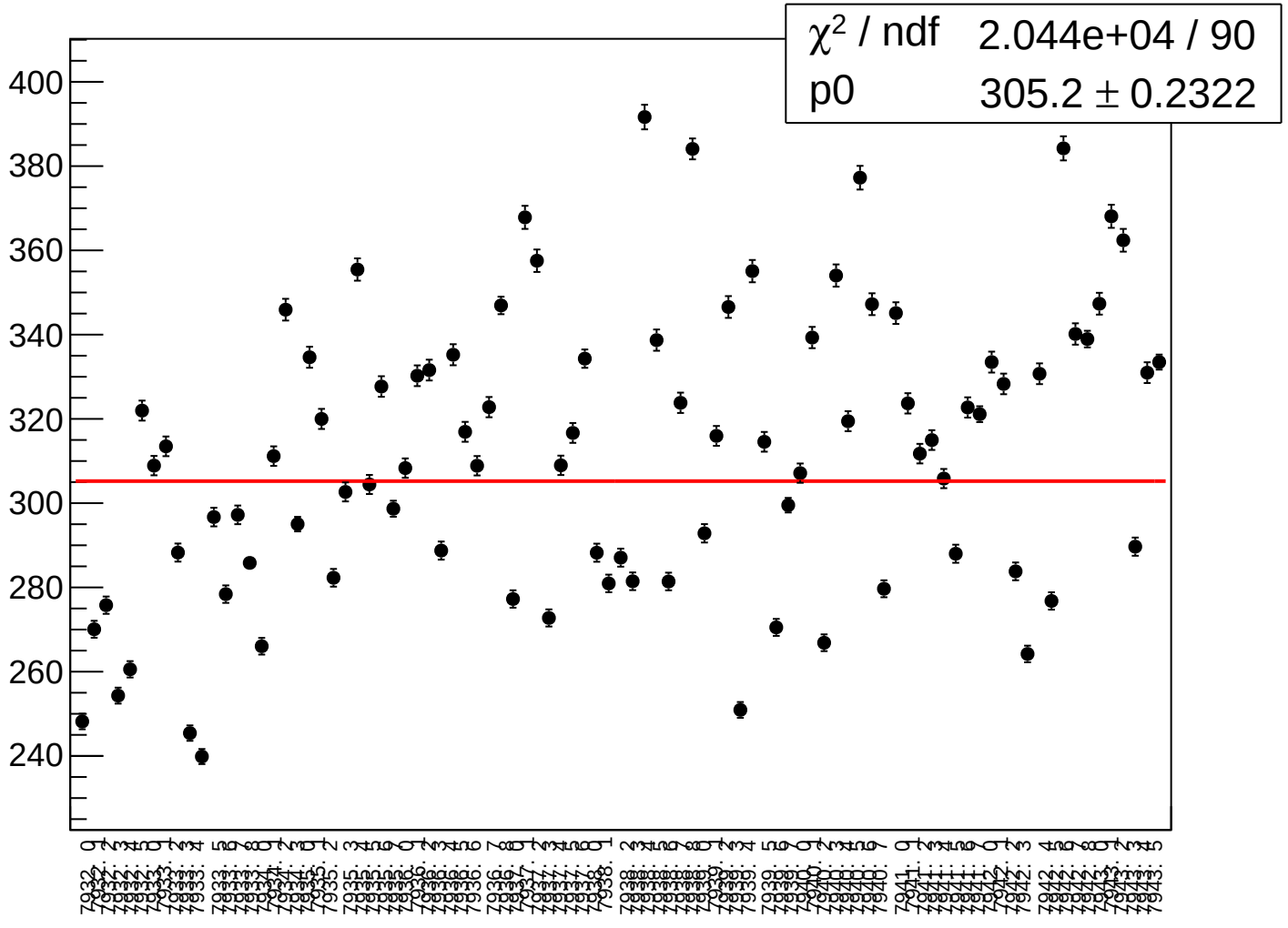

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91 / 90
p0 0.1357 ± 0.3284
pull
Entries 91
Mean 465
Std Dev 0

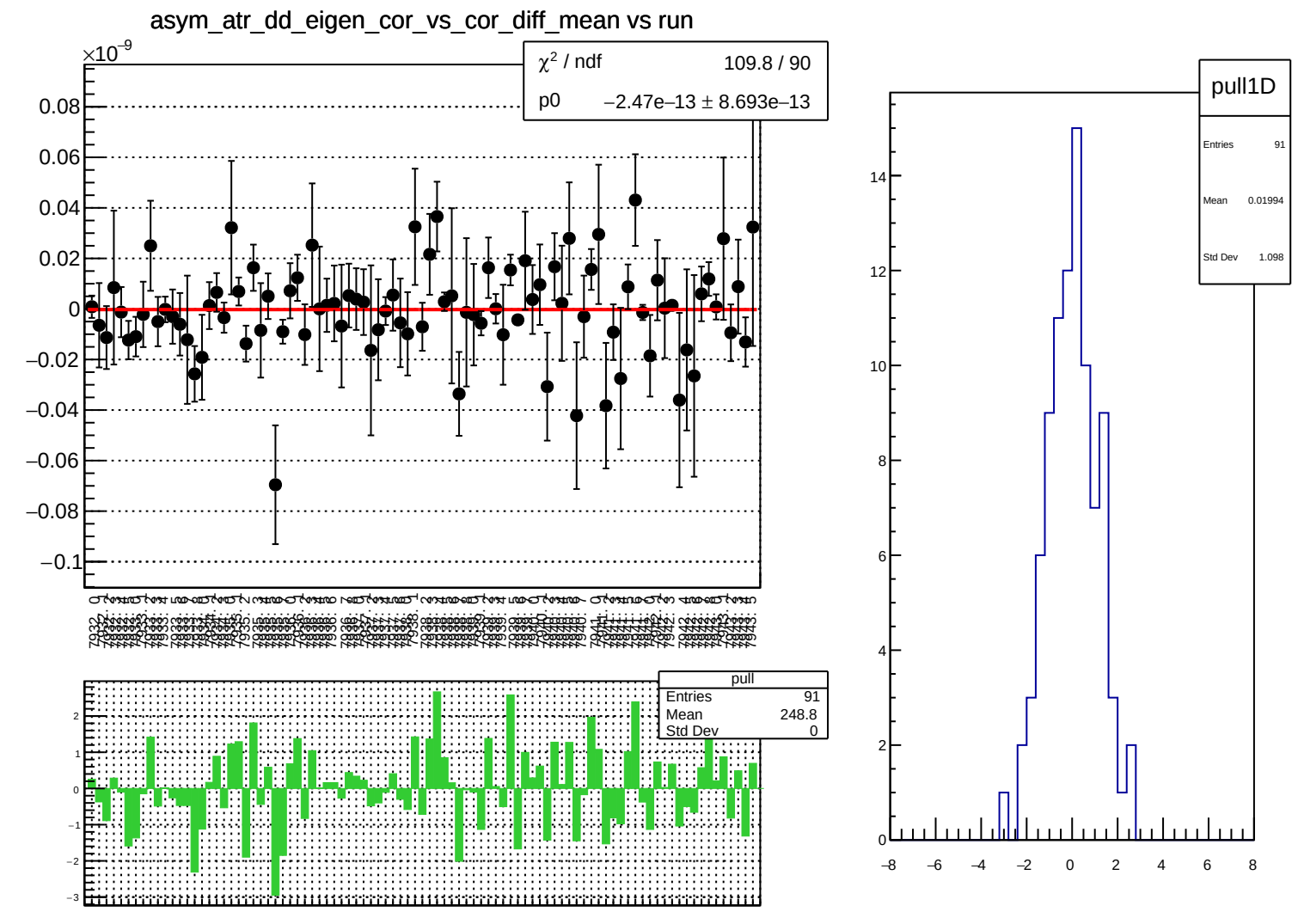

pull1D
Entries 91
Mean −0.001923
Std Dev 1

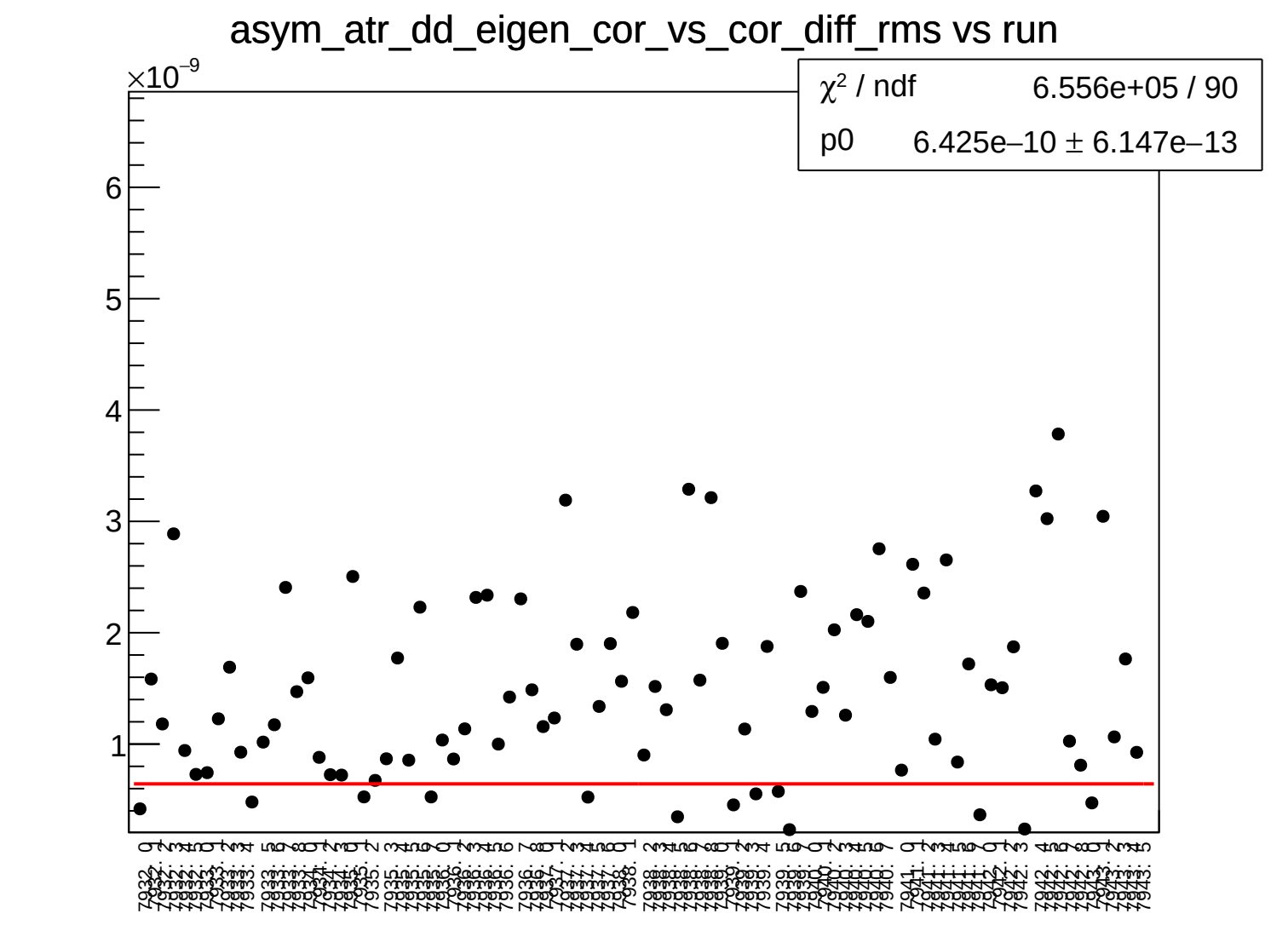

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.044e+04 / 90
p0 305.2 ± 0.2322
400
380
360
340
320
300
280
260
240

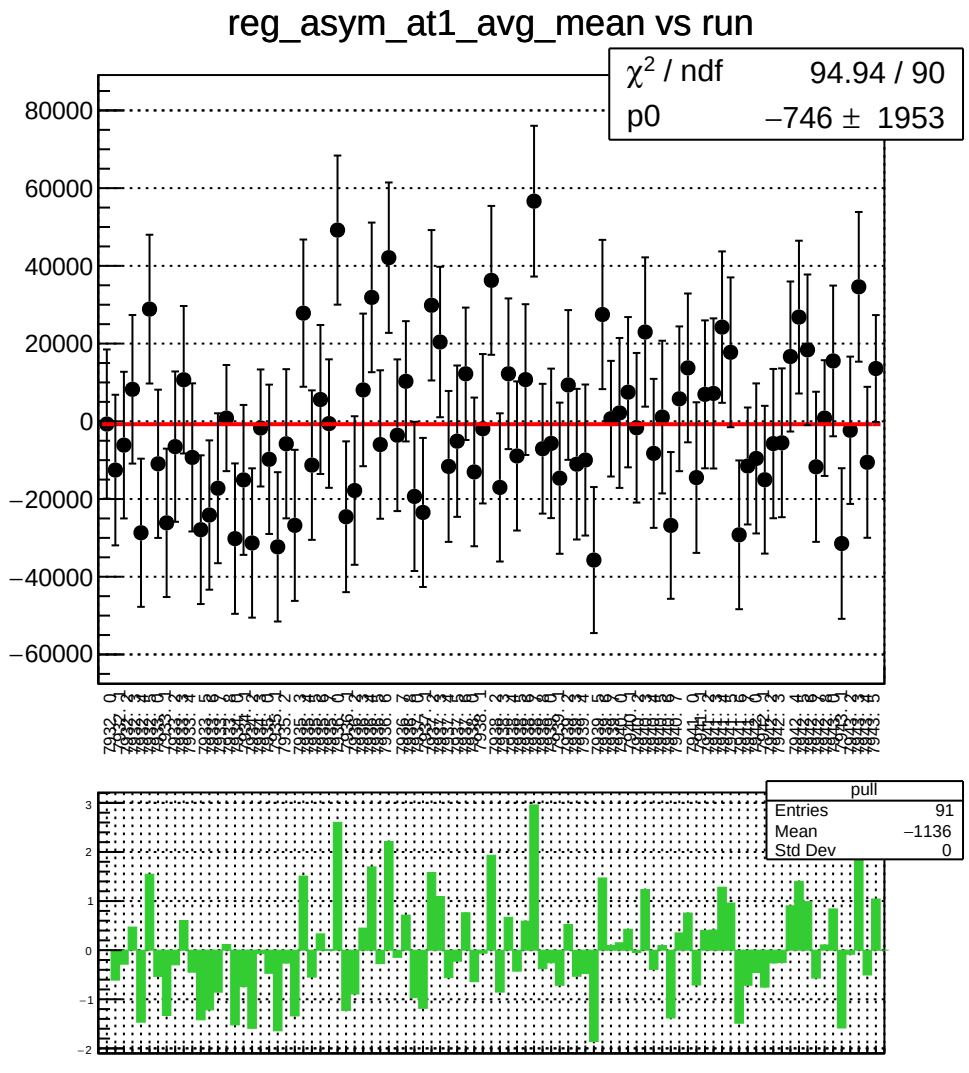

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91 / 90
p0 0.1357 ± 0.3284
pull
Entries 91
Mean 465
Std Dev 0

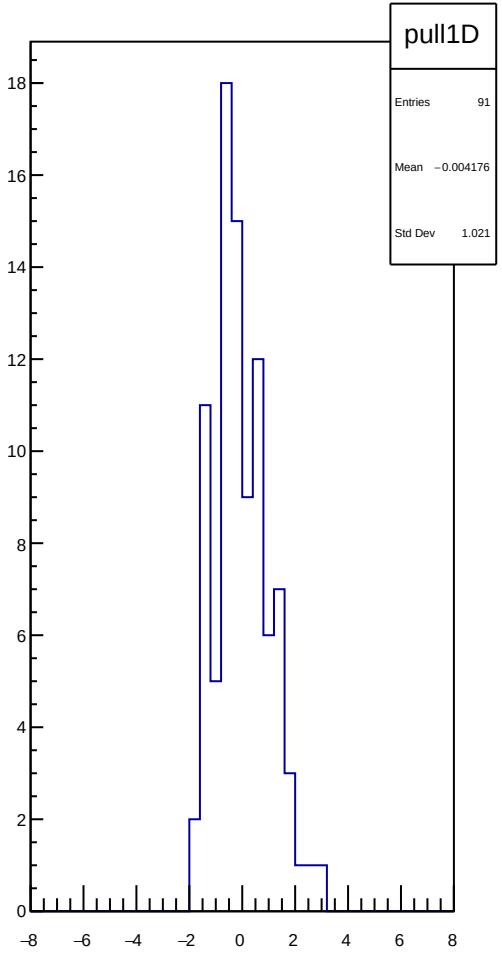

pull1D
Entries 91
Mean −0.001923
Std Dev 1

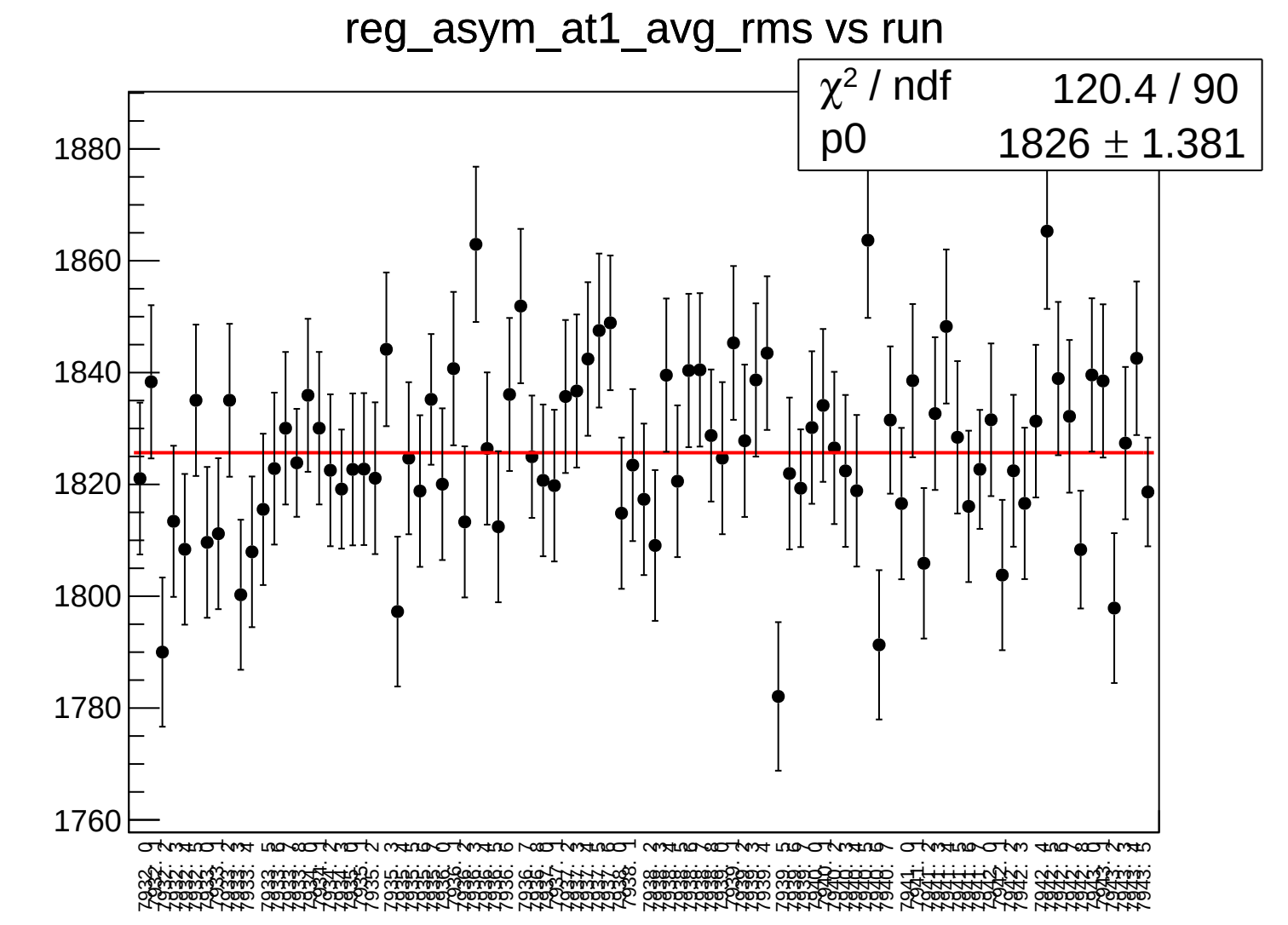

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.044e+04 / 90
p0 305.2 ± 0.2322
400
380
360
340
320
300
280
260
240

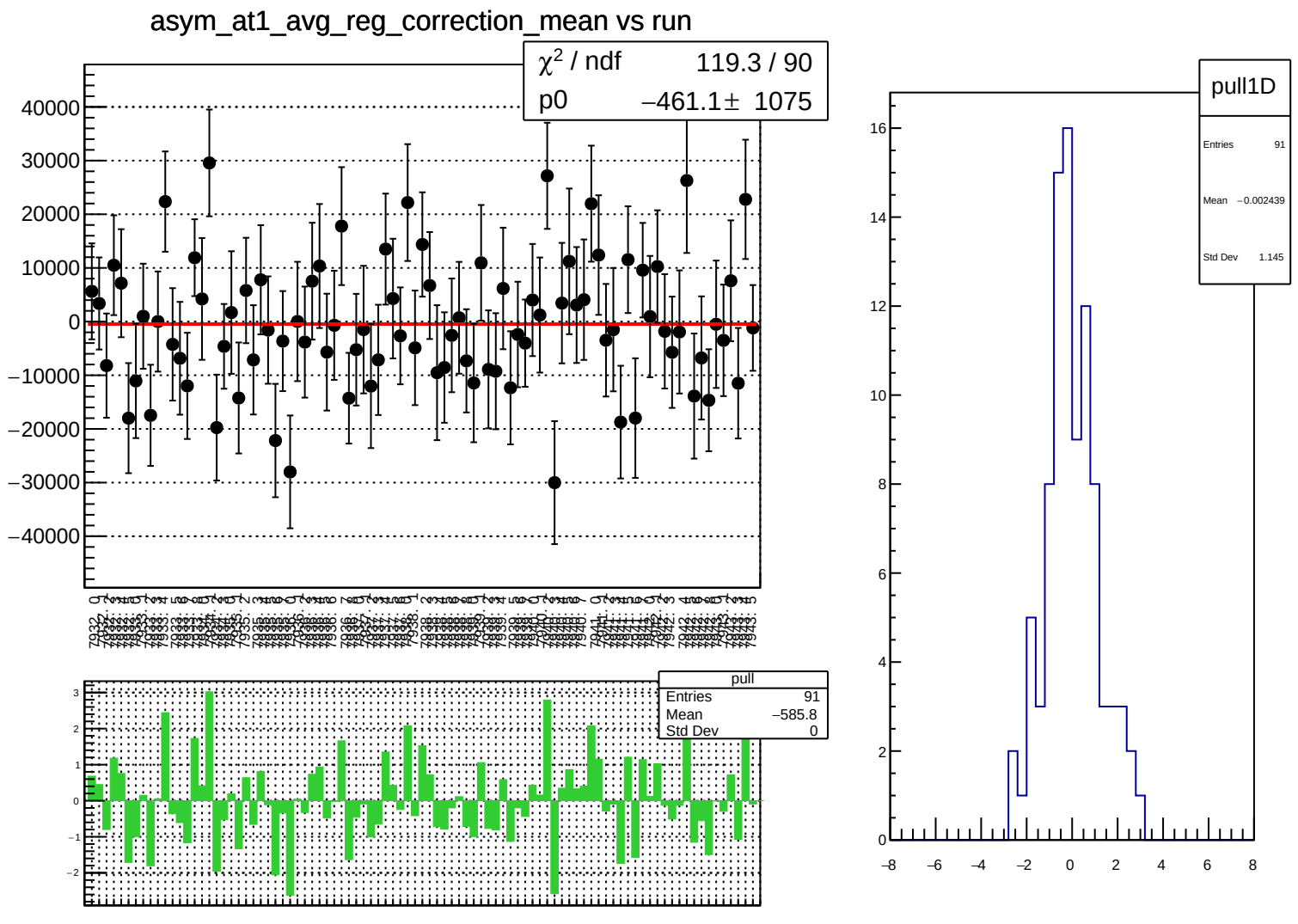

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 109.8 / 90
p0 −2.47e−13 ± 8.693e−13
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 91
Mean 248.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.01994
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

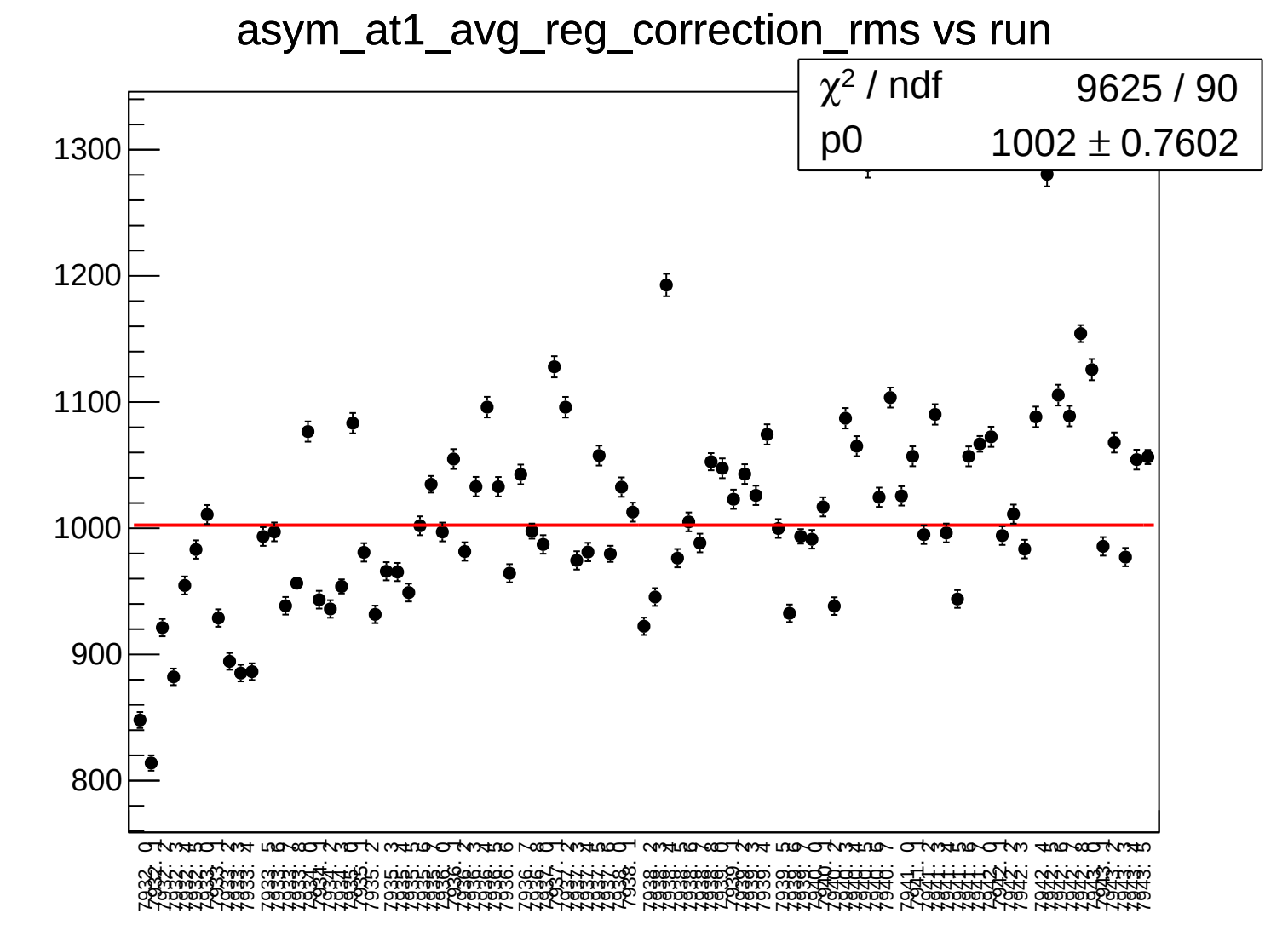

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.556e+05 / 90
p0 6.425e−10 ± 6.147e−13
6
5
4
3
2
1

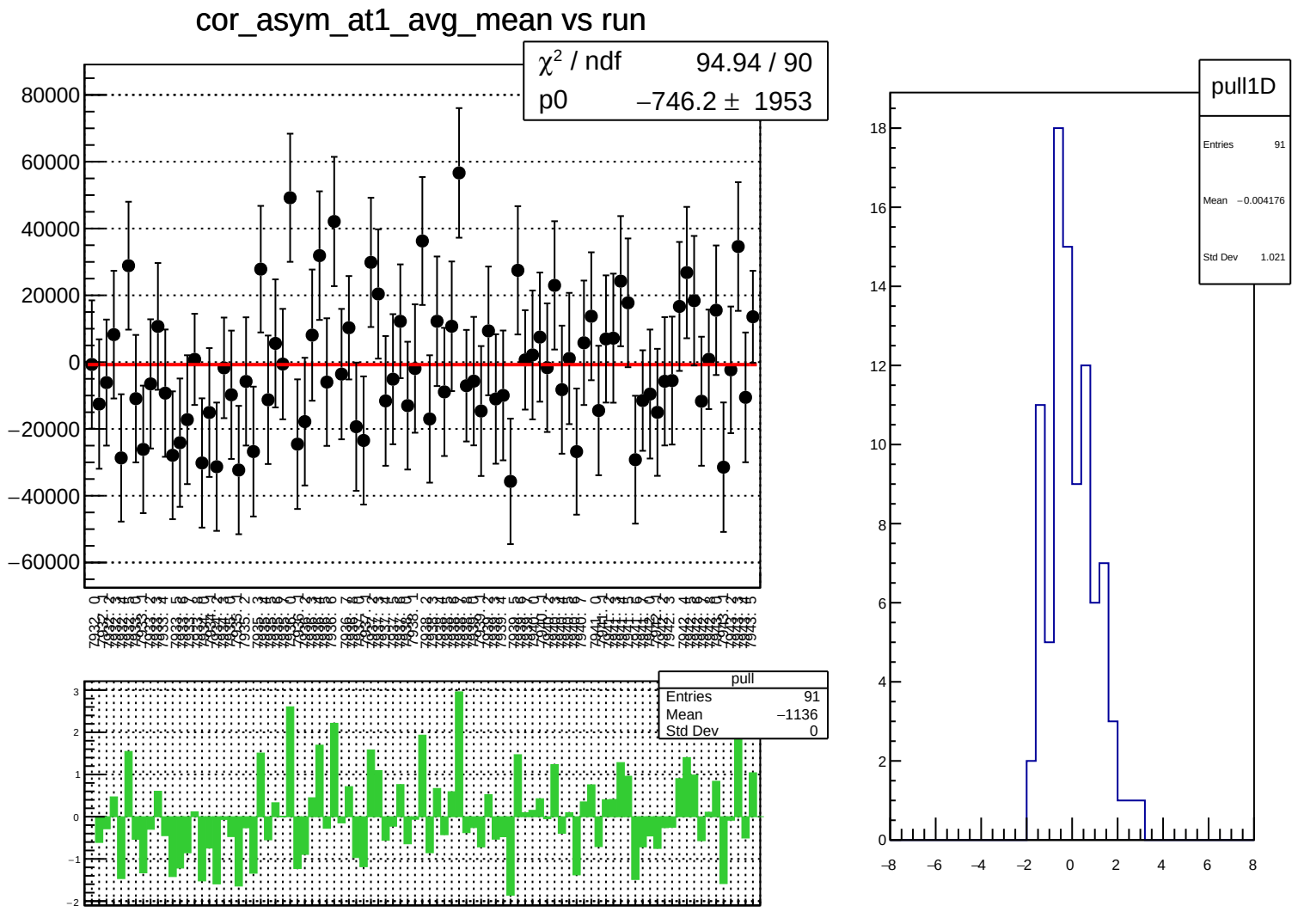

reg_asym_at1_avg_mean vs run
χ² / ndf 94.94 / 90
p0 −746 ± 1953
pull
Entries 91
Mean −1136
Std Dev 0

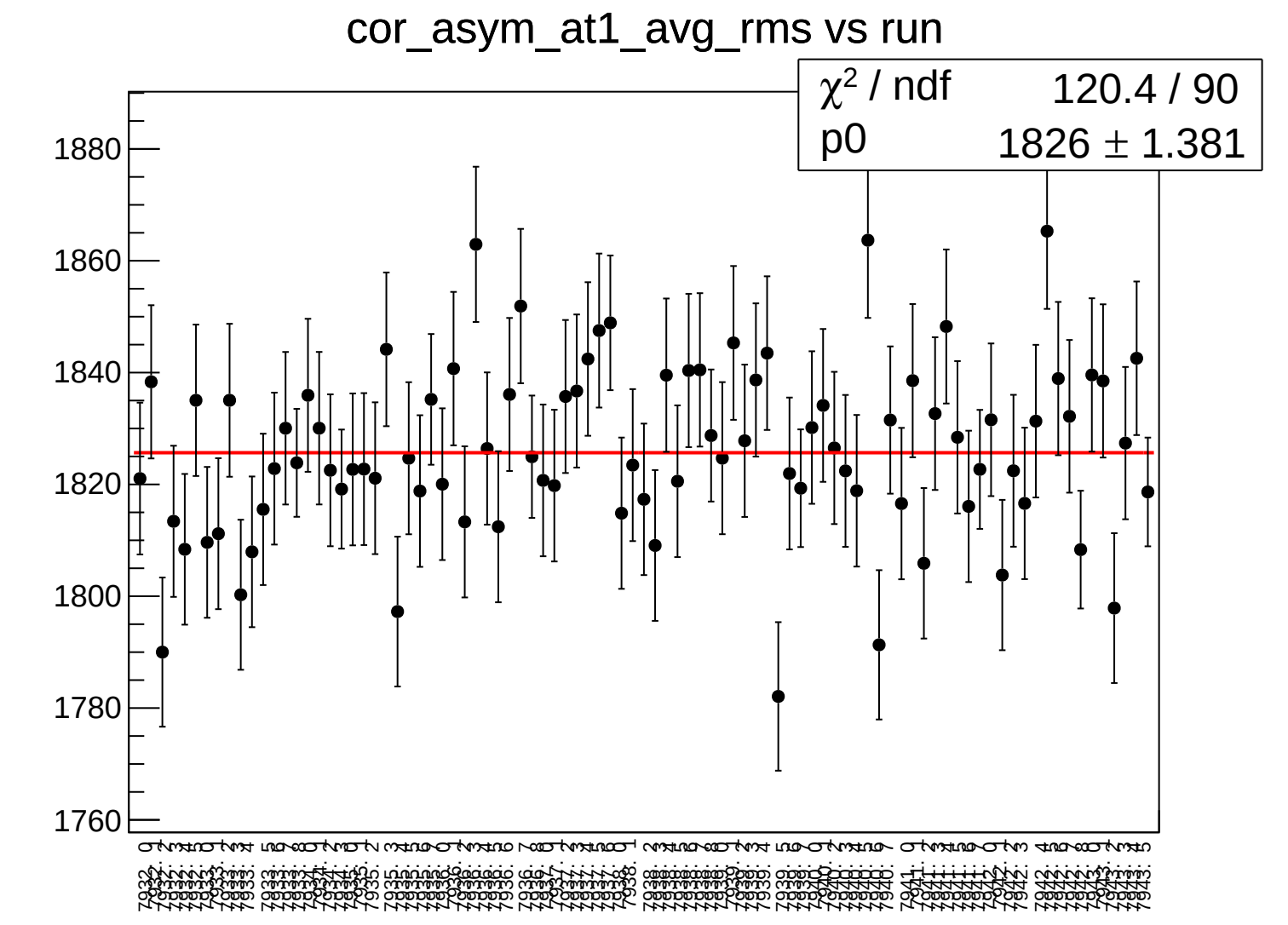

pull1D
Entries 91
Mean −0.004176
Std Dev 1.021

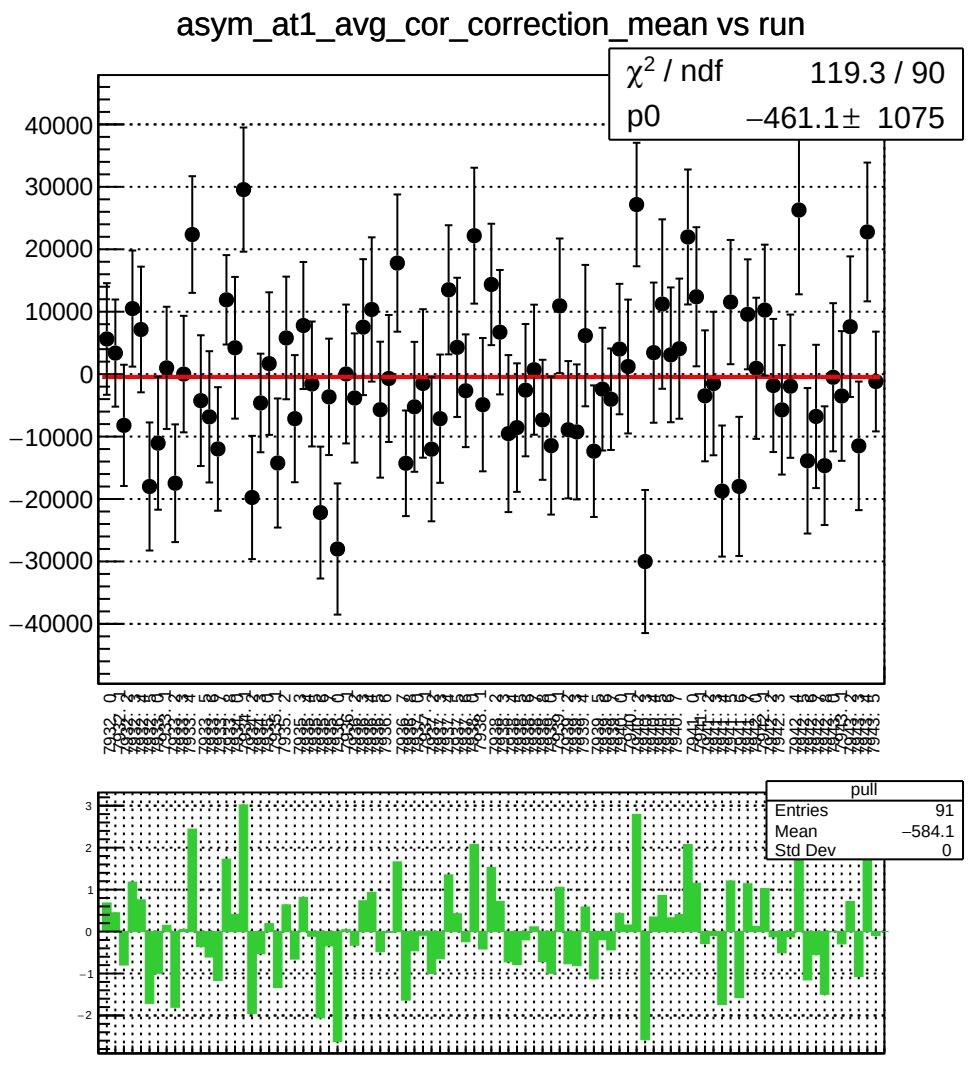

reg_asym_at1_avg_rms vs run
χ² / ndf 120.4 / 90
p0 1826 ± 1.381
1880
1860
1840
1820
1800
1780
1760

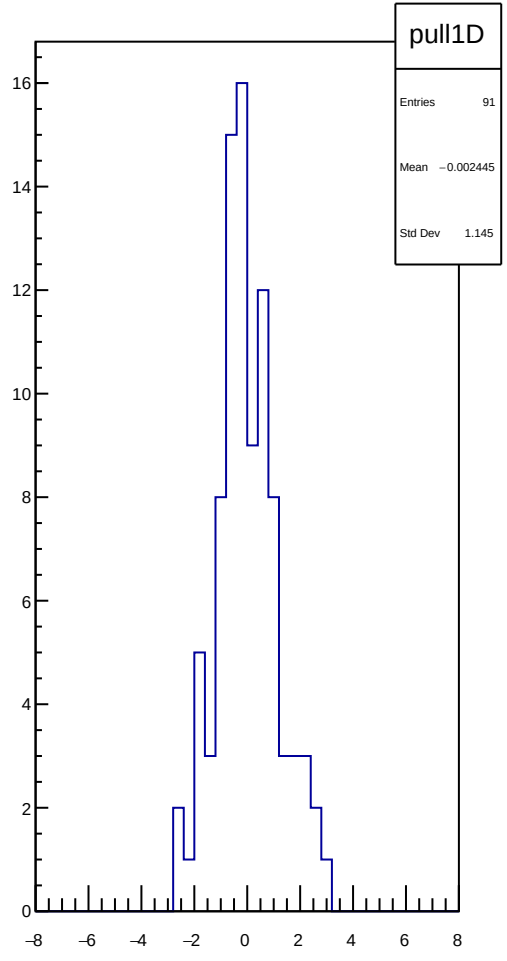

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 119.3 / 90
p0 −461.1± 1075
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −585.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.002439
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

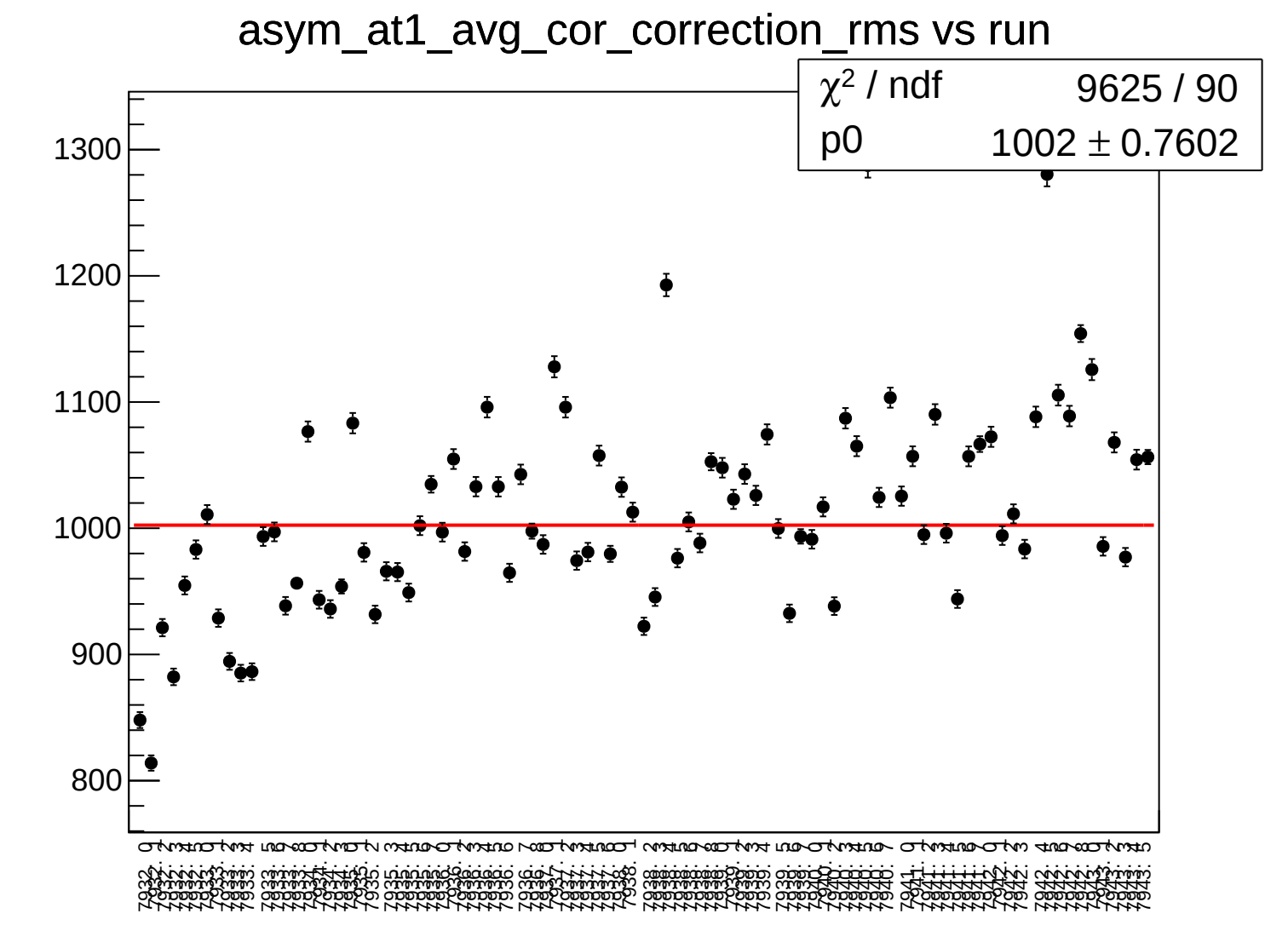

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 9625 / 90
p0 1002 ± 0.7602
1300
1200
1100
1000
900
800

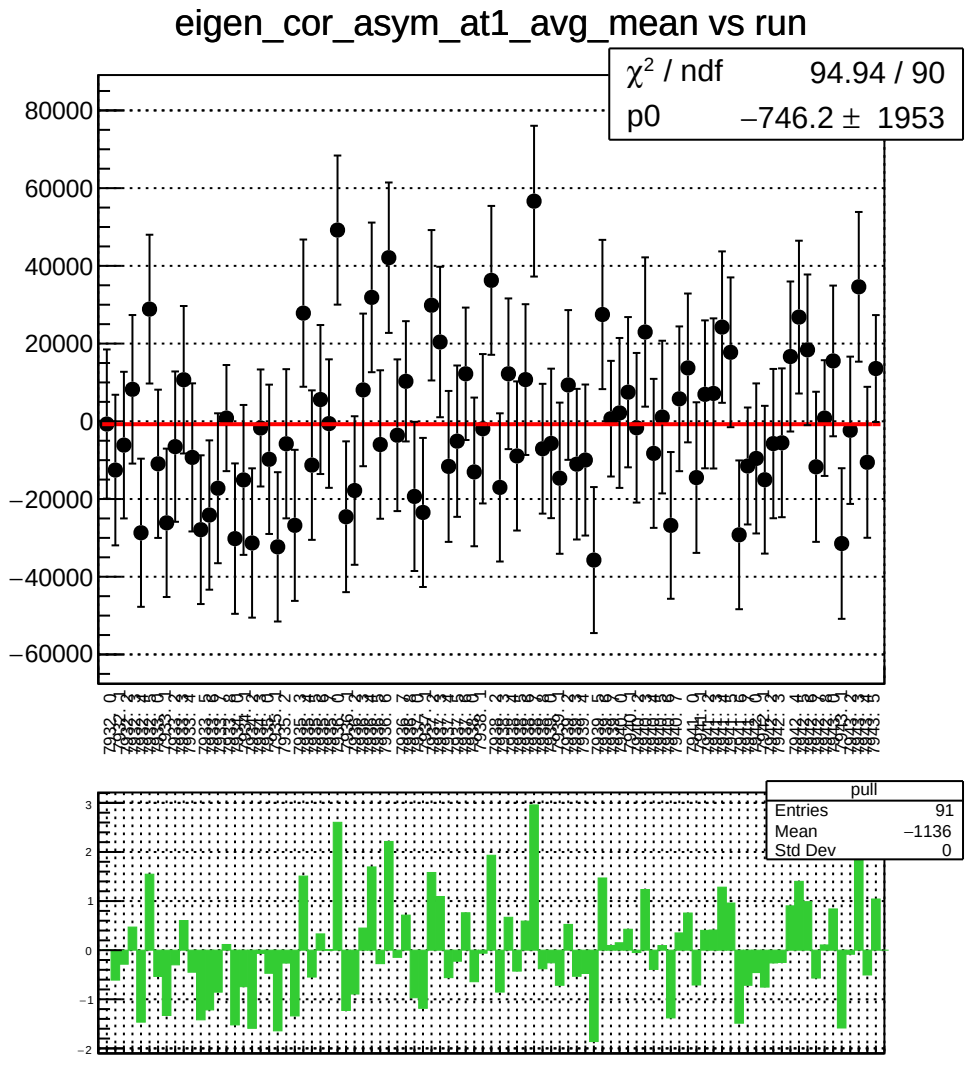

cor_asym_at1_avg_mean vs run
χ² / ndf 94.94 / 90
p0 −746.2 ± 1953
pull
Entries 91
Mean −1136
Std Dev 0
pull1D
Entries 91
Mean −0.004176
Std Dev 1.021

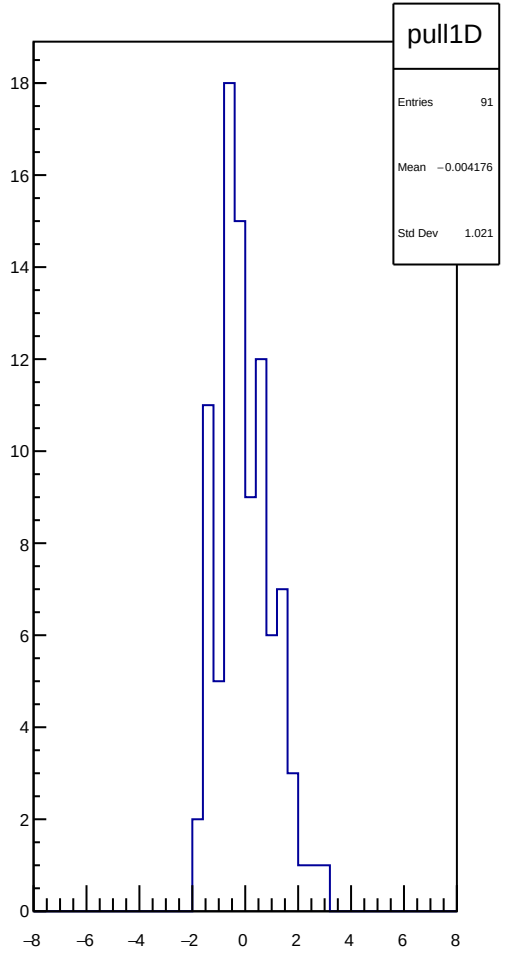

cor_asym_at1_avg_rms vs run
χ² / ndf 120.4 / 90
p0 1826 ± 1.381
1880
1860
1840
1820
1800
1780
1760

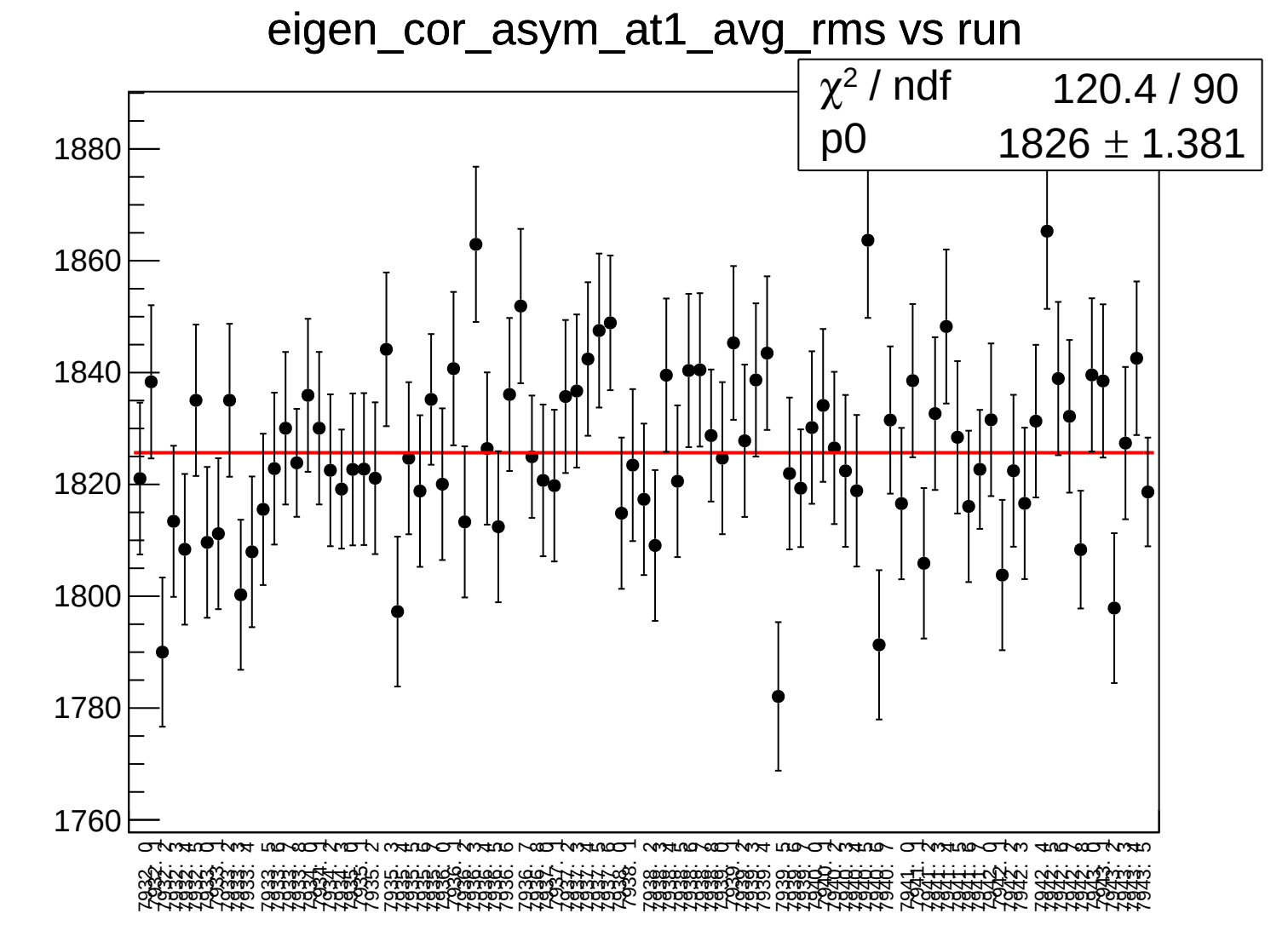

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 119.3 / 90
p0 −461.1± 1075
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −584.1
Std Dev 0
3
2
1
0
−1
−2

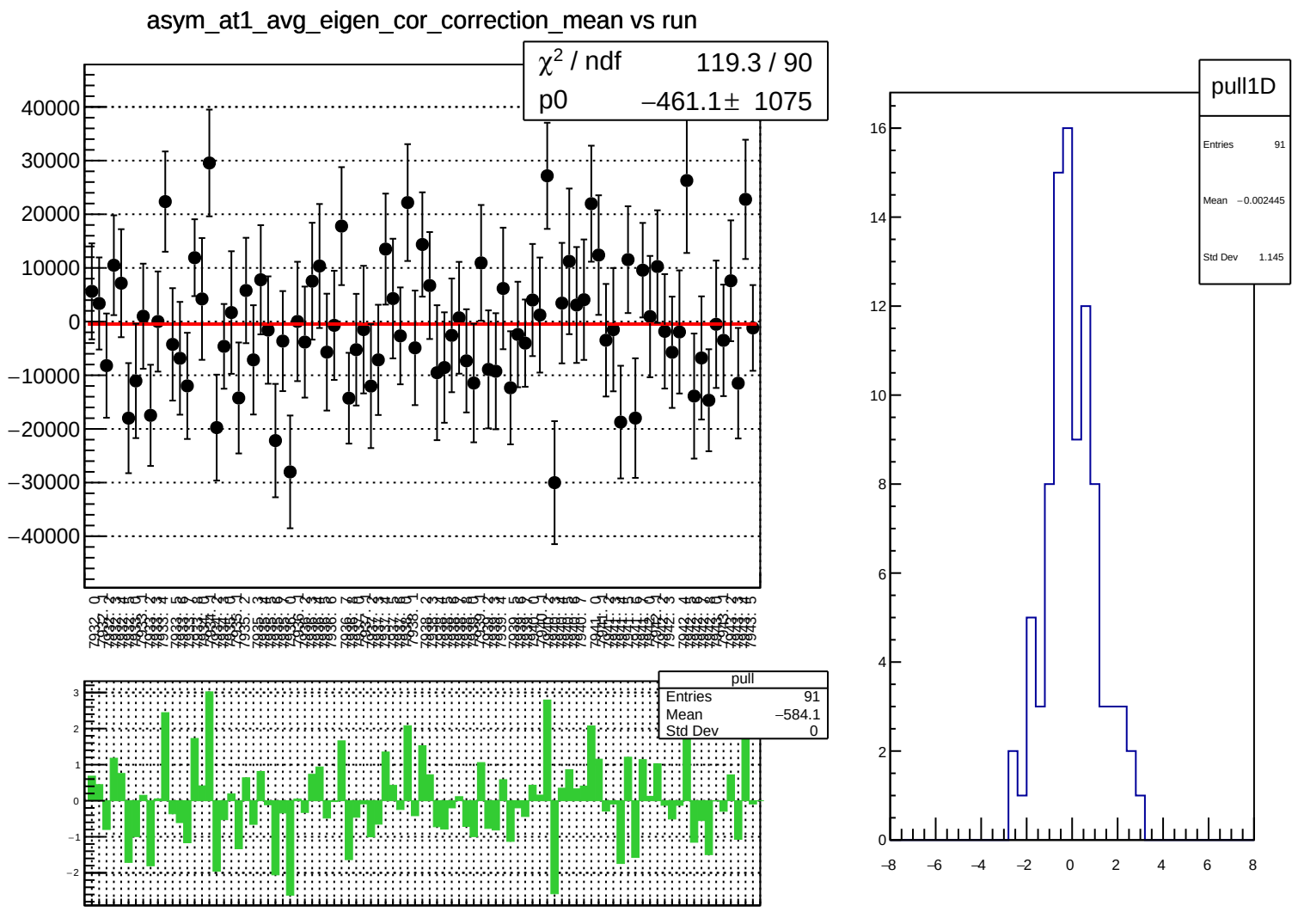

pull1D
Entries 91
Mean −0.002445
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

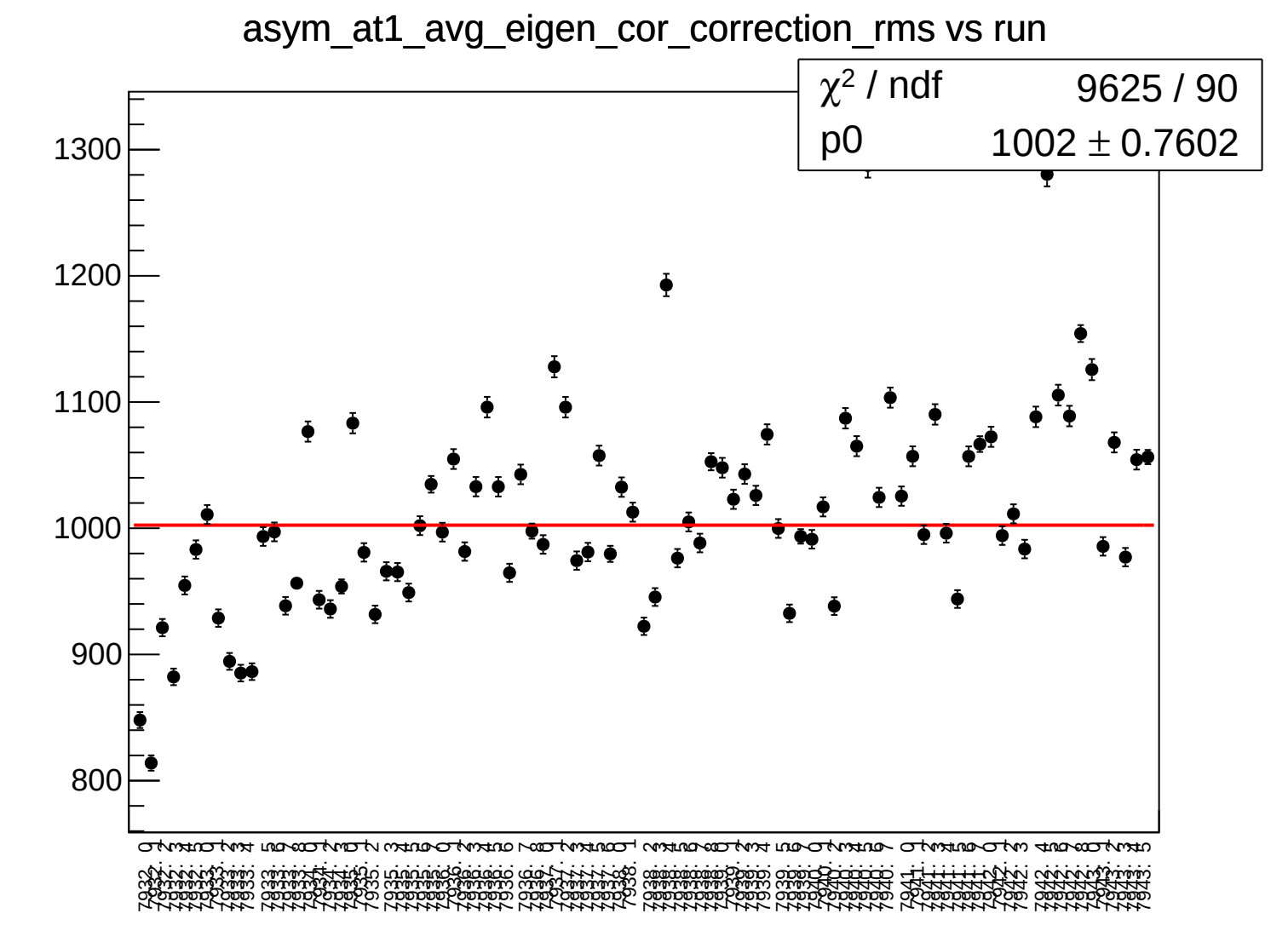

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 9625 / 90
p0 1002 ± 0.7602
1300
1200
1100
1000
900
800

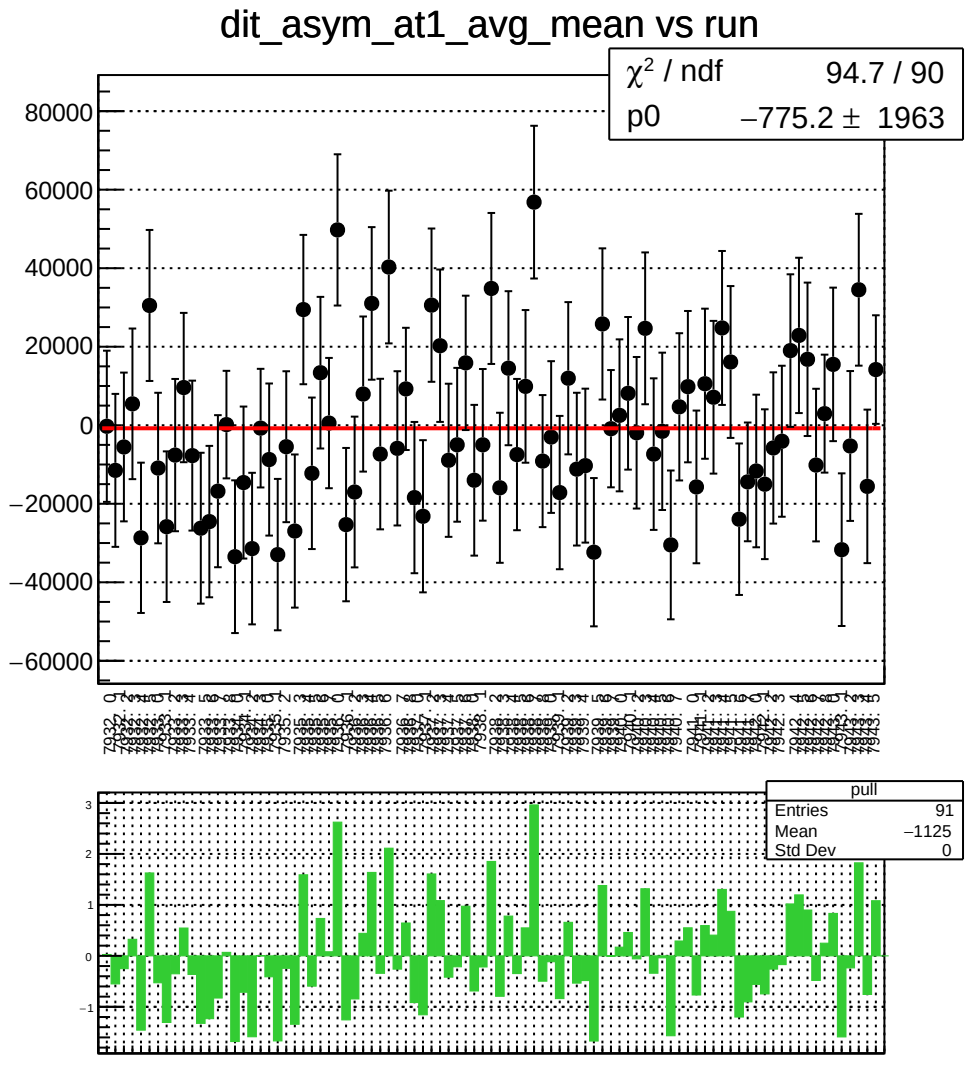

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 94.94 / 90
p0 −746.2 ± 1953
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1136
Std Dev 0
3
2
1
0
−1
−2

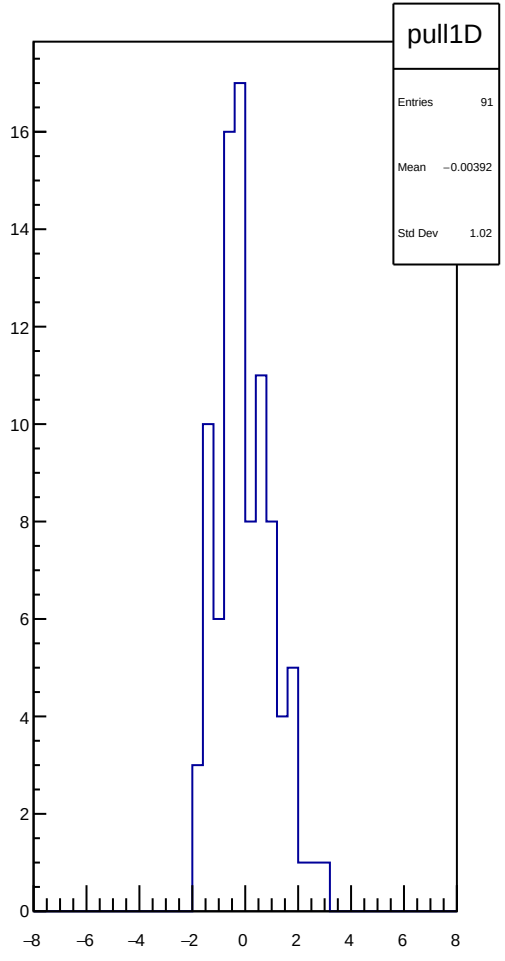

pull1D
Entries 91
Mean −0.004176
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

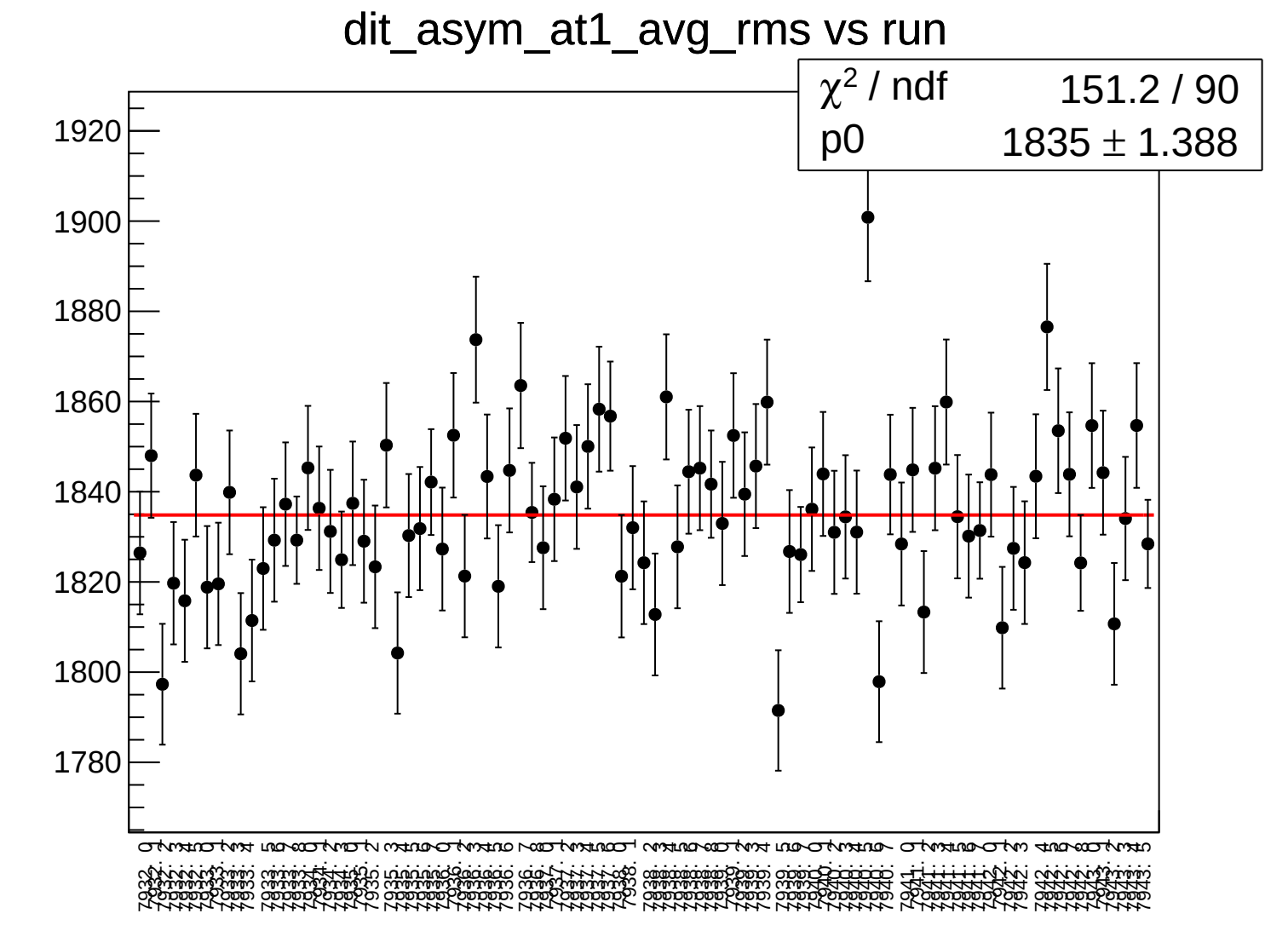

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 120.4 / 90
p0 1826 ± 1.381
1880
1860
1840
1820
1800
1780
1760

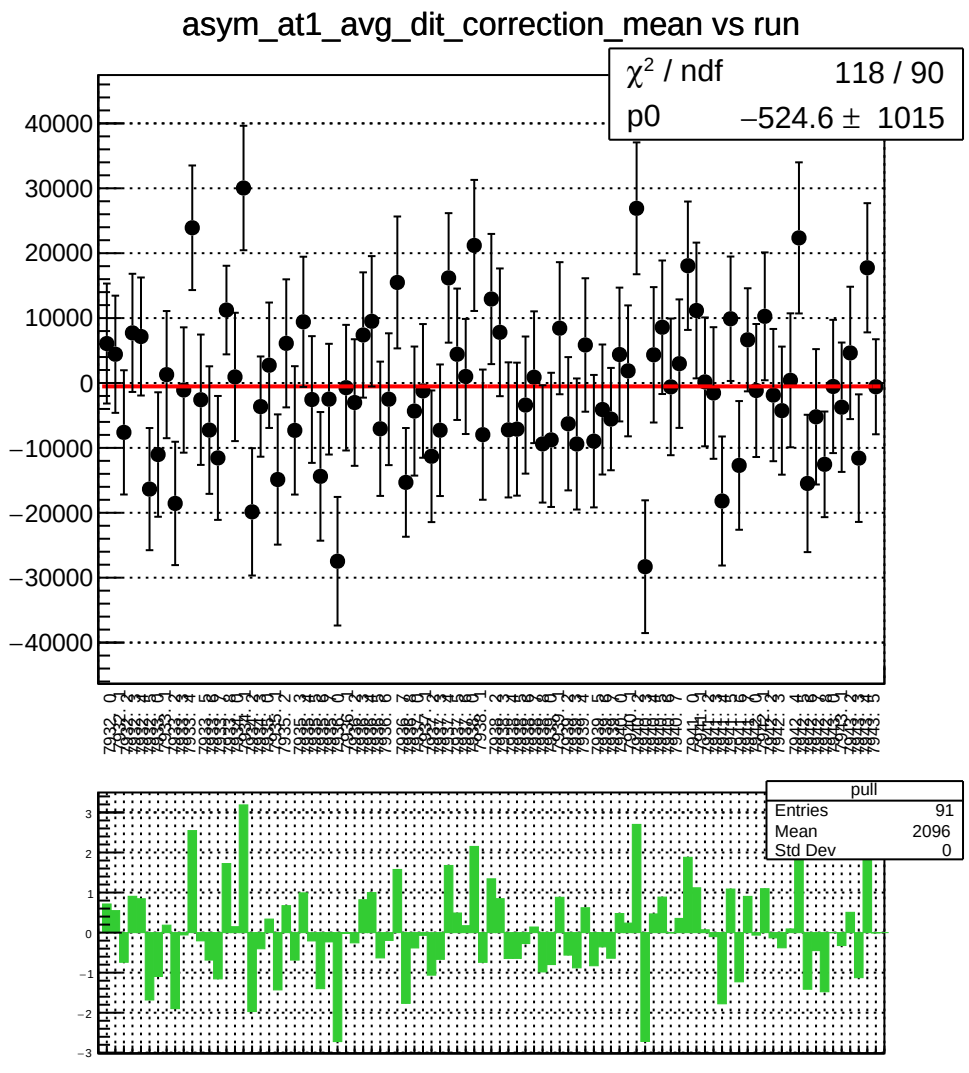

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 119.3 / 90
p0 −461.1± 1075
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −584.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.002445
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

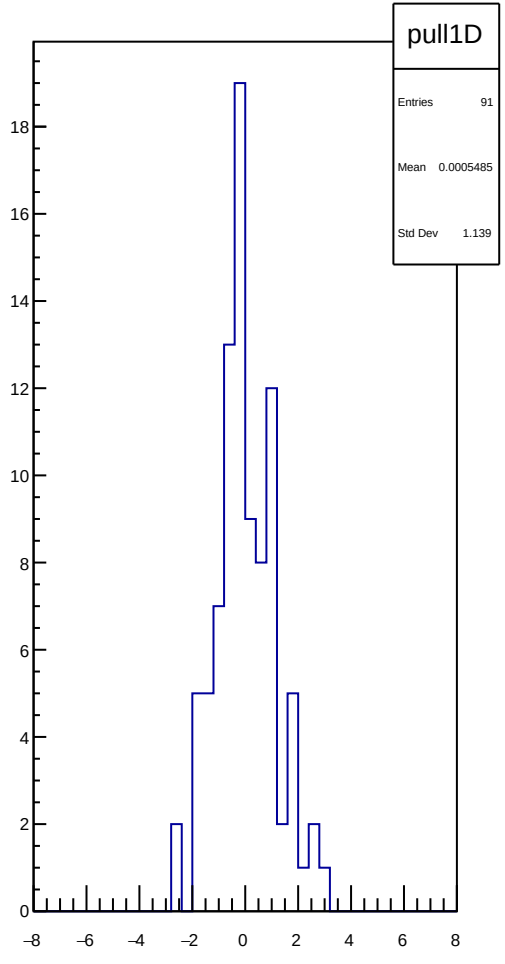

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 9625 / 90
p0 1002 ± 0.7602
1300
1200
1100
1000
900
800

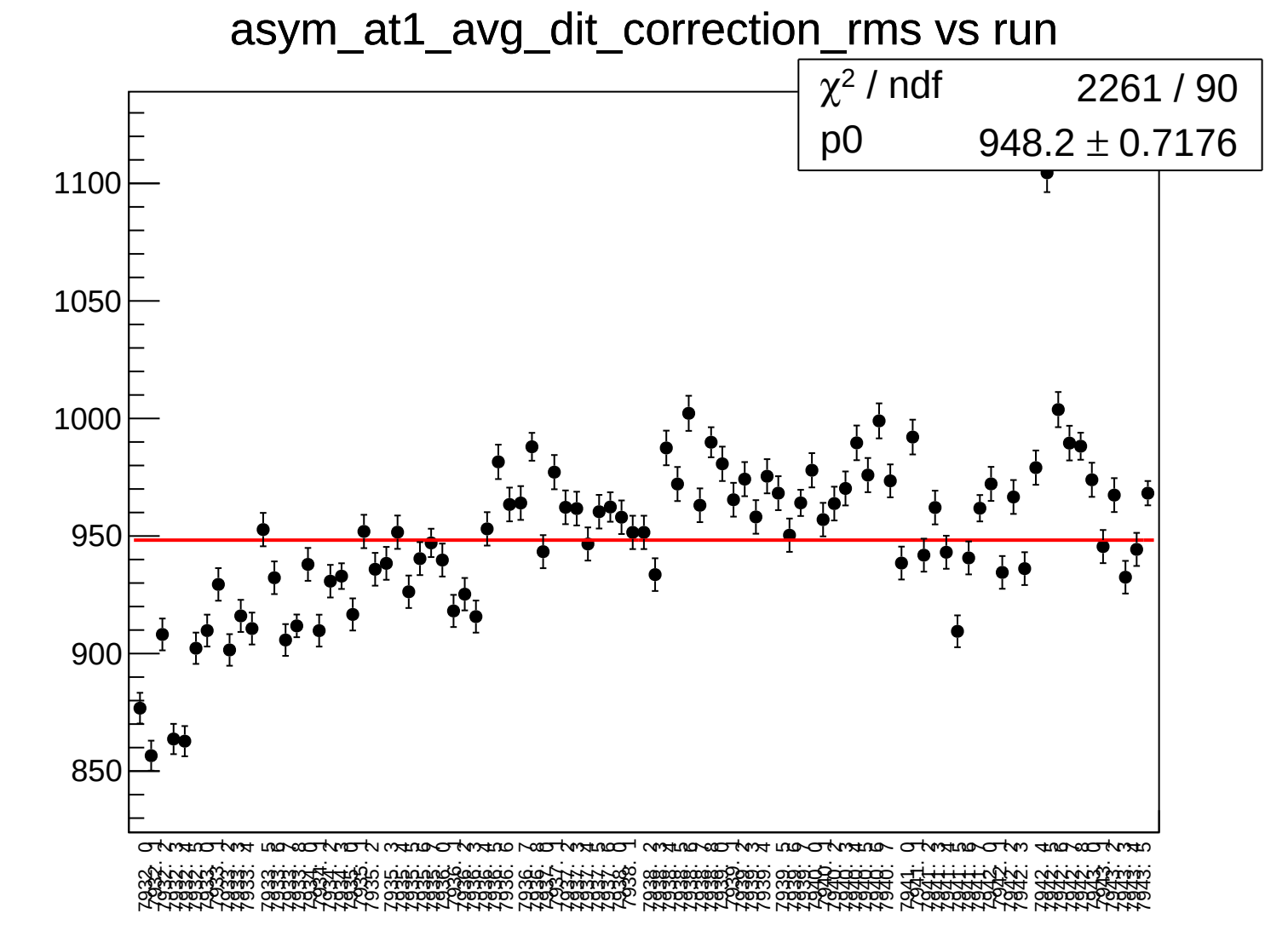

dit_asym_at1_avg_mean vs run
χ² / ndf 94.7 / 90
p0 −775.2 ± 1963
pull
Entries 91
Mean −1125
Std Dev 0

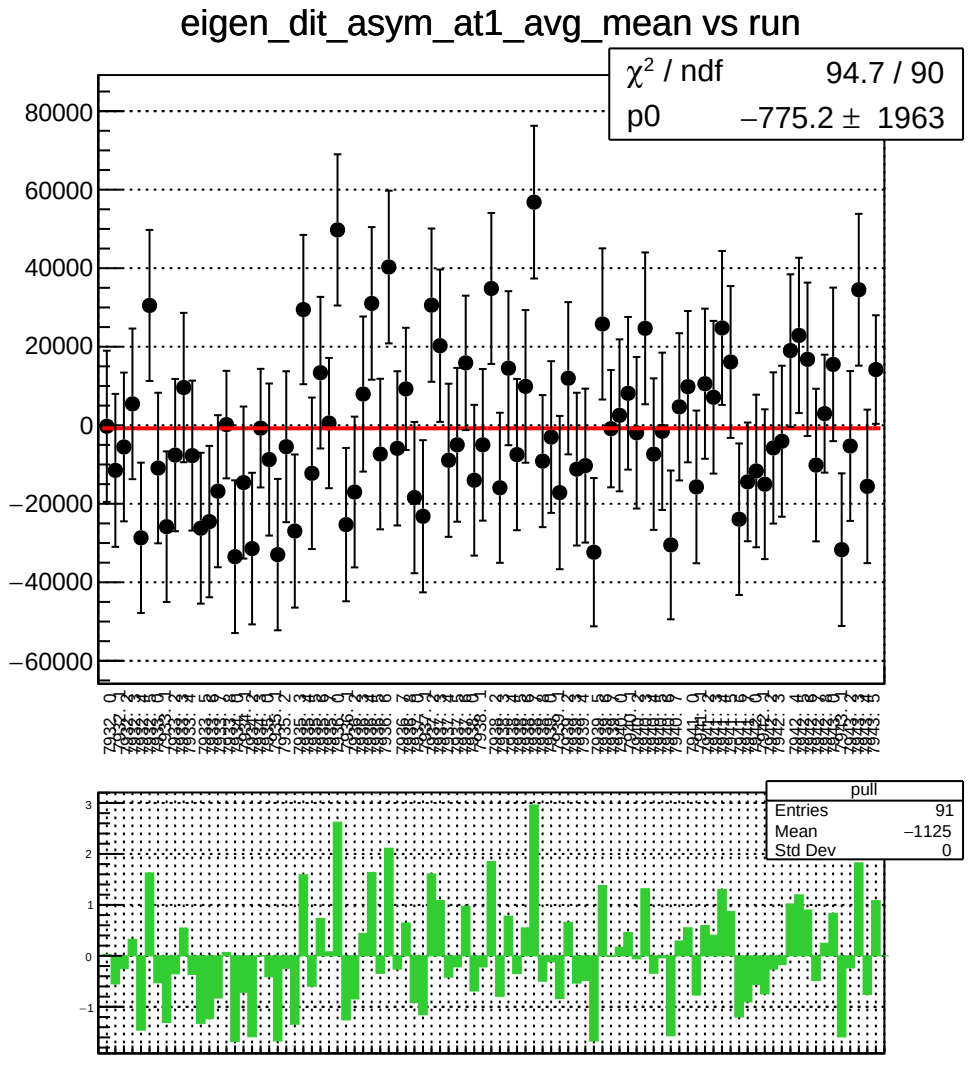

pull1D
Entries 91
Mean −0.00392
Std Dev 1.02

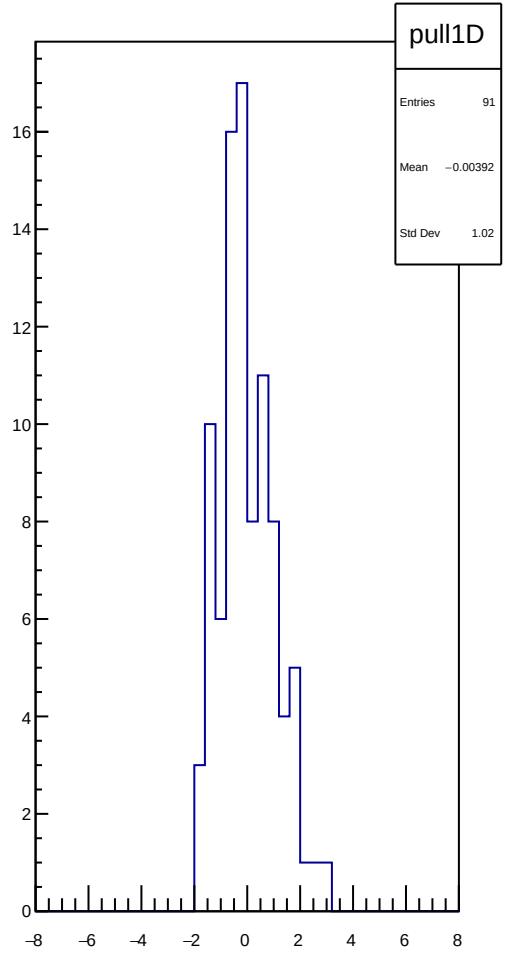

dit_asym_at1_avg_rms vs run
χ² / ndf 151.2 / 90
p0 1835 ± 1.388
1920
1900
1880
1860
1840
1820
1800
1780

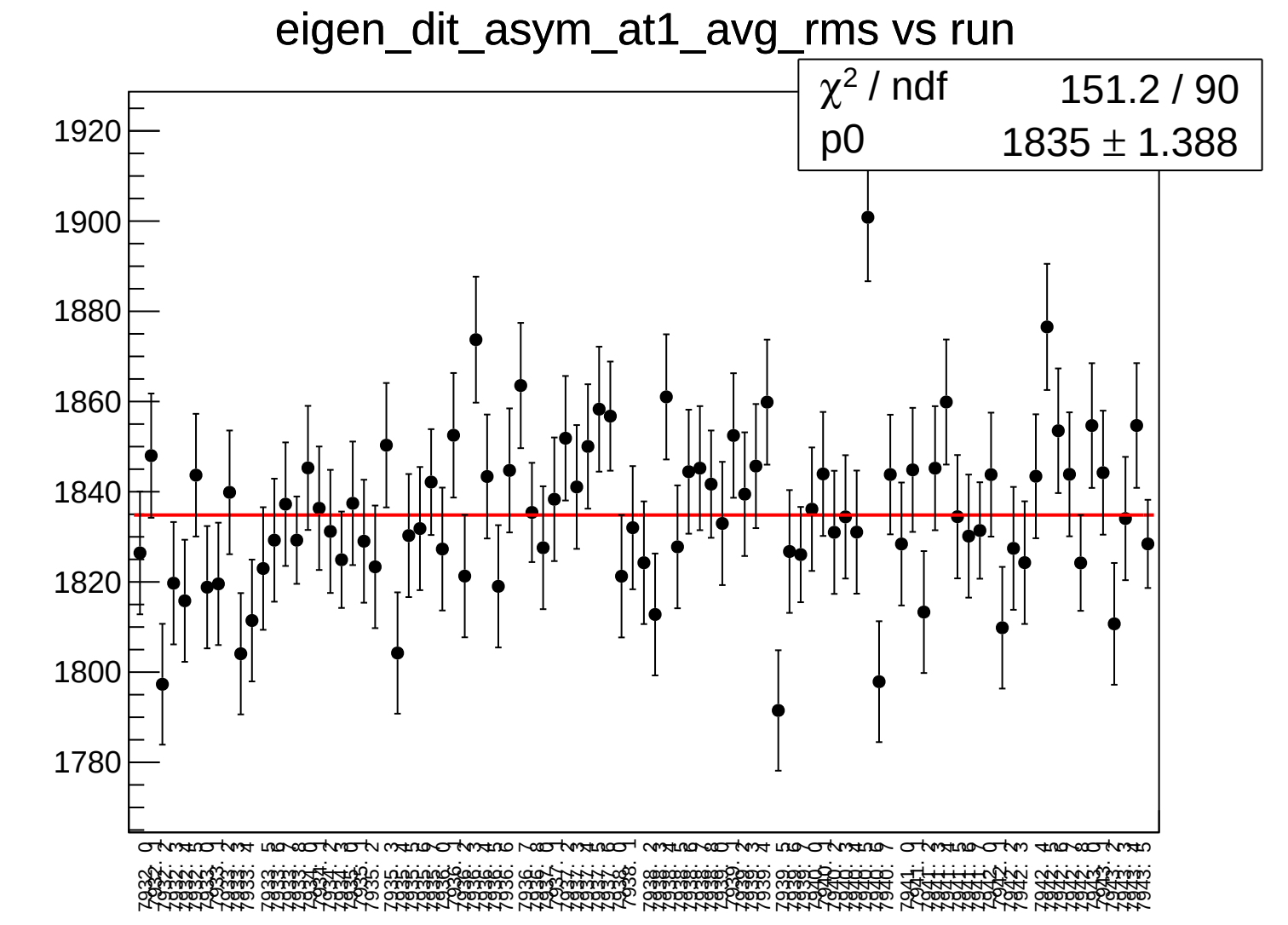

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 118 / 90
p0 −524.6 ± 1015
pull
Entries 91
Mean 2096
Std Dev 0

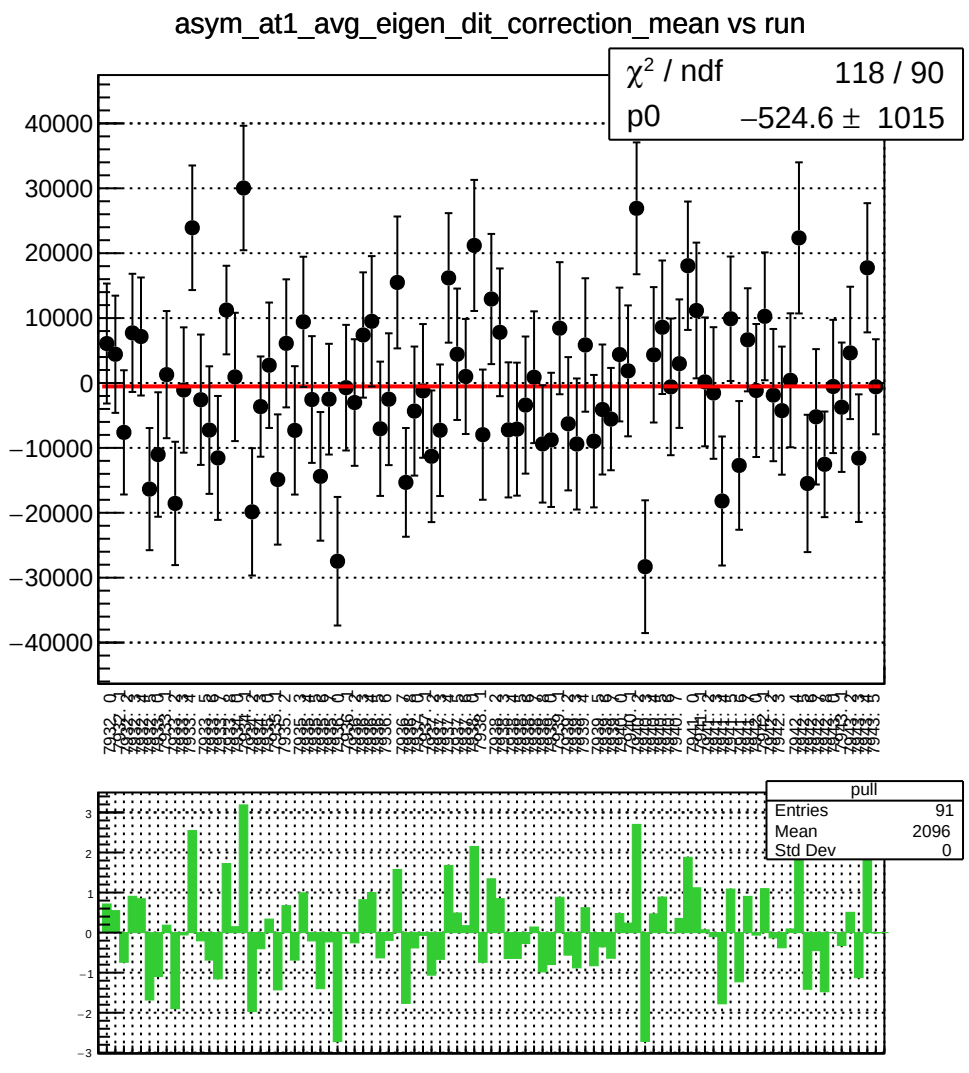

pull1D
Entries 91
Mean 0.0005485
Std Dev 1.139

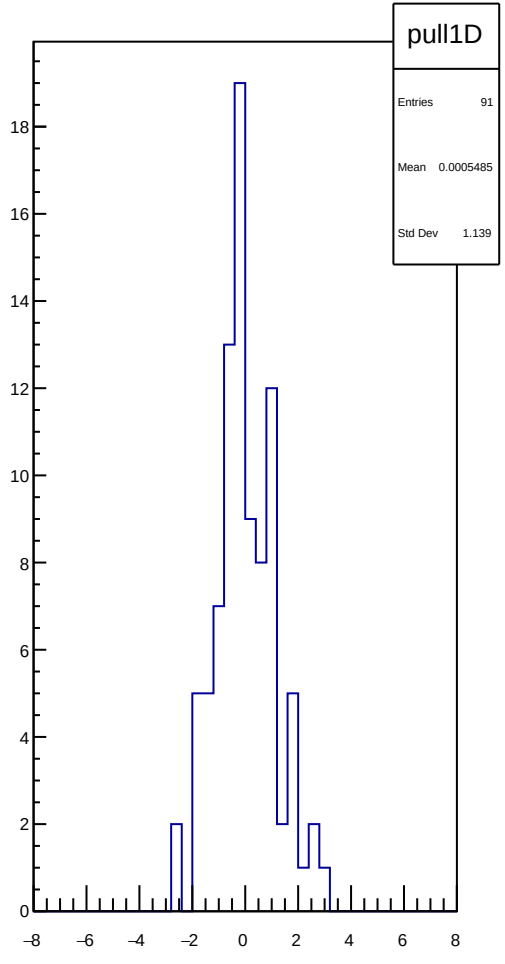

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 2261 / 90
p0 948.2 ± 0.7176
1100
1050
1000
950
900
850

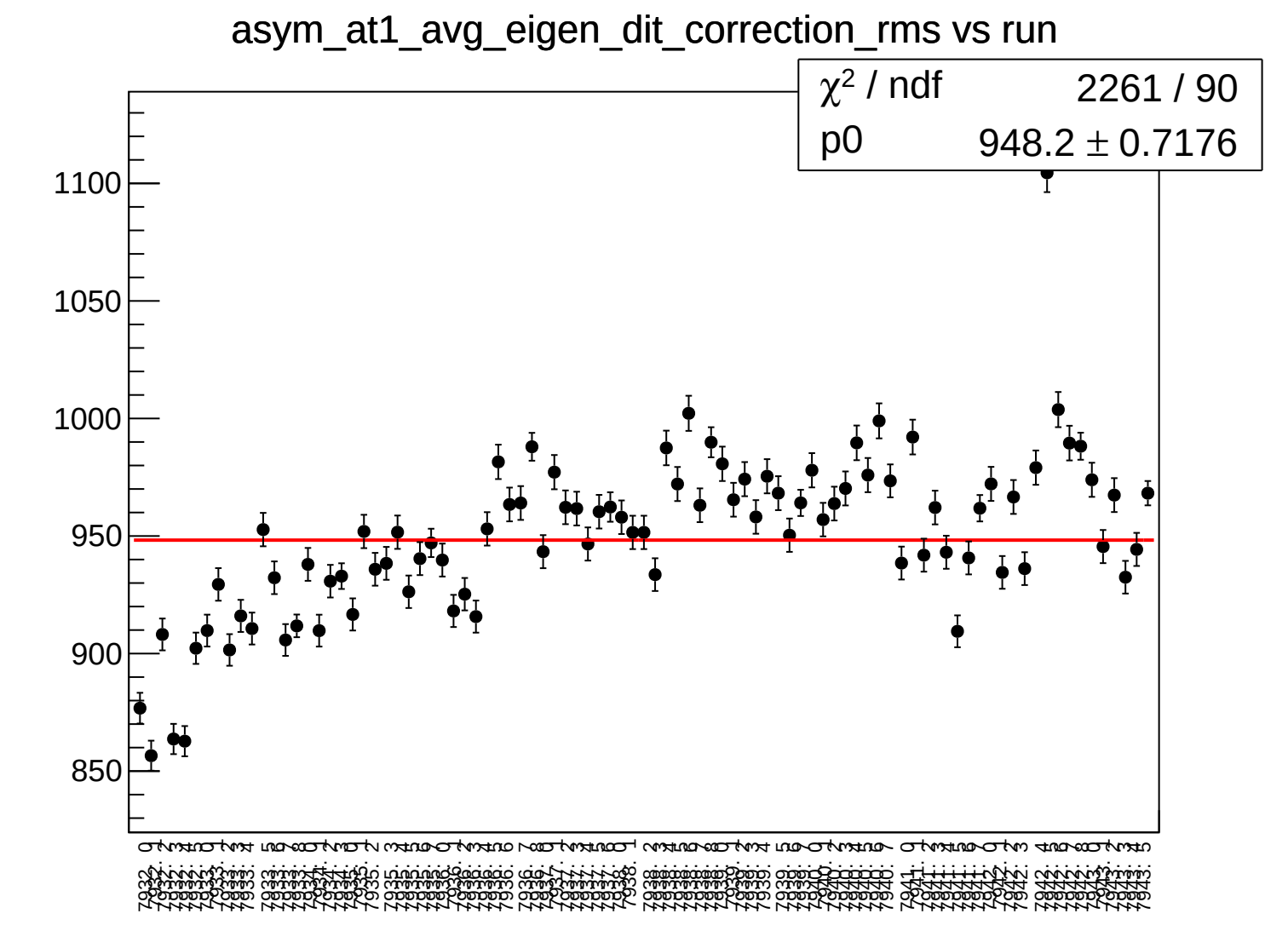

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 94.7 / 90
p0 −775.2 ± 1963
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1125
Std Dev 0
3
2
1
0
−1

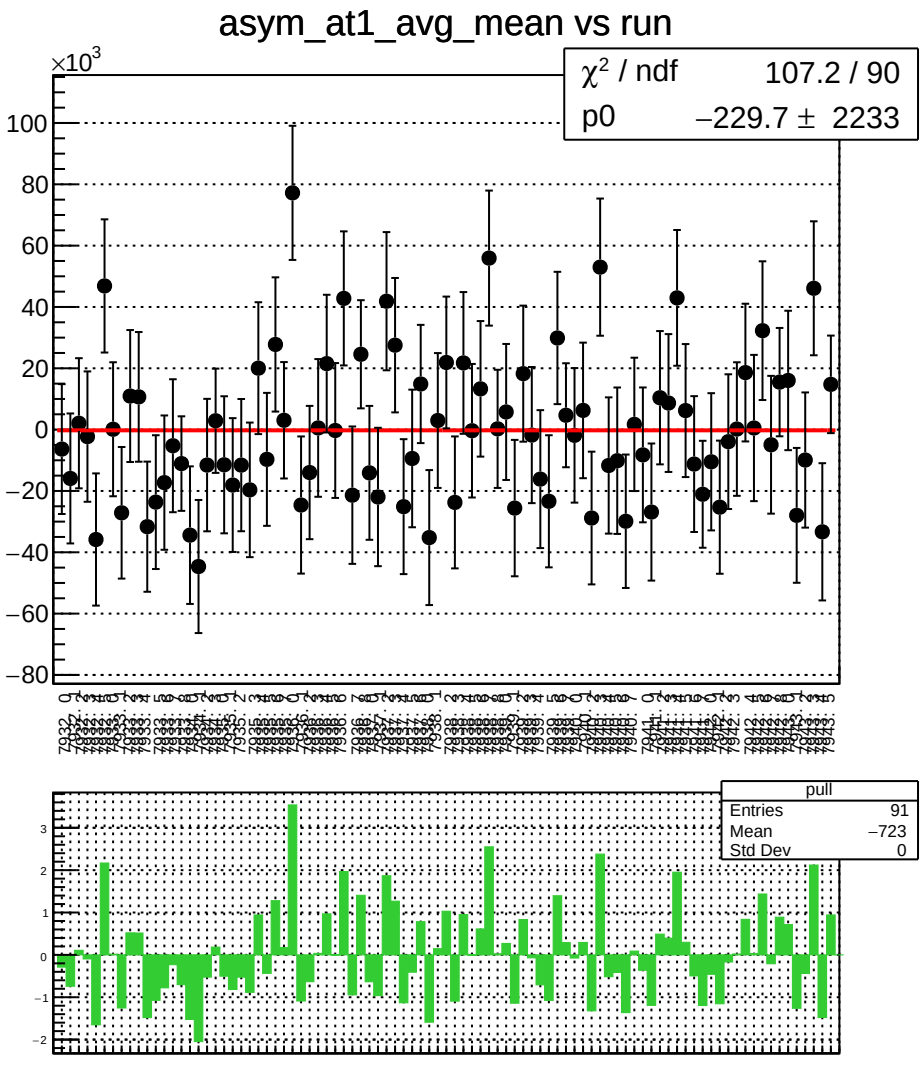

pull1D
Entries 91
Mean −0.00392
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

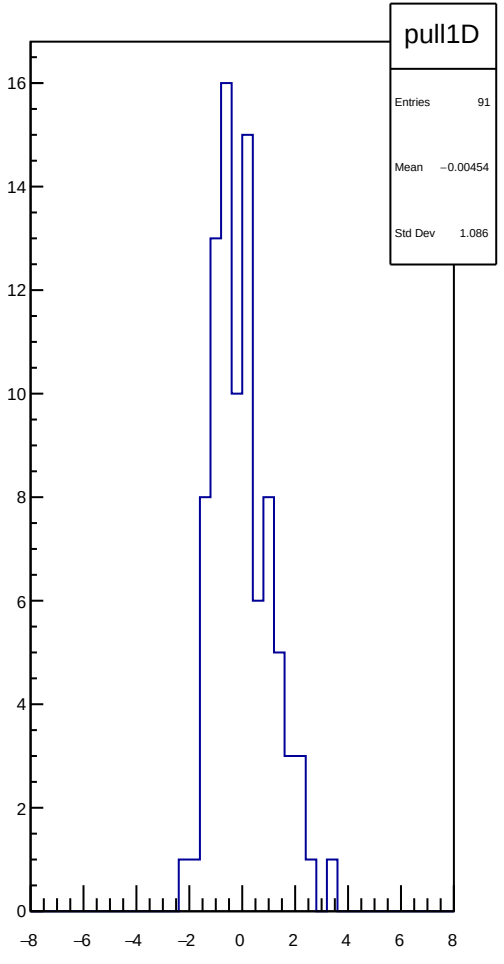

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 151.2 / 90
p0 1835 ± 1.388
1920
1900
1880
1860
1840
1820
1800
1780

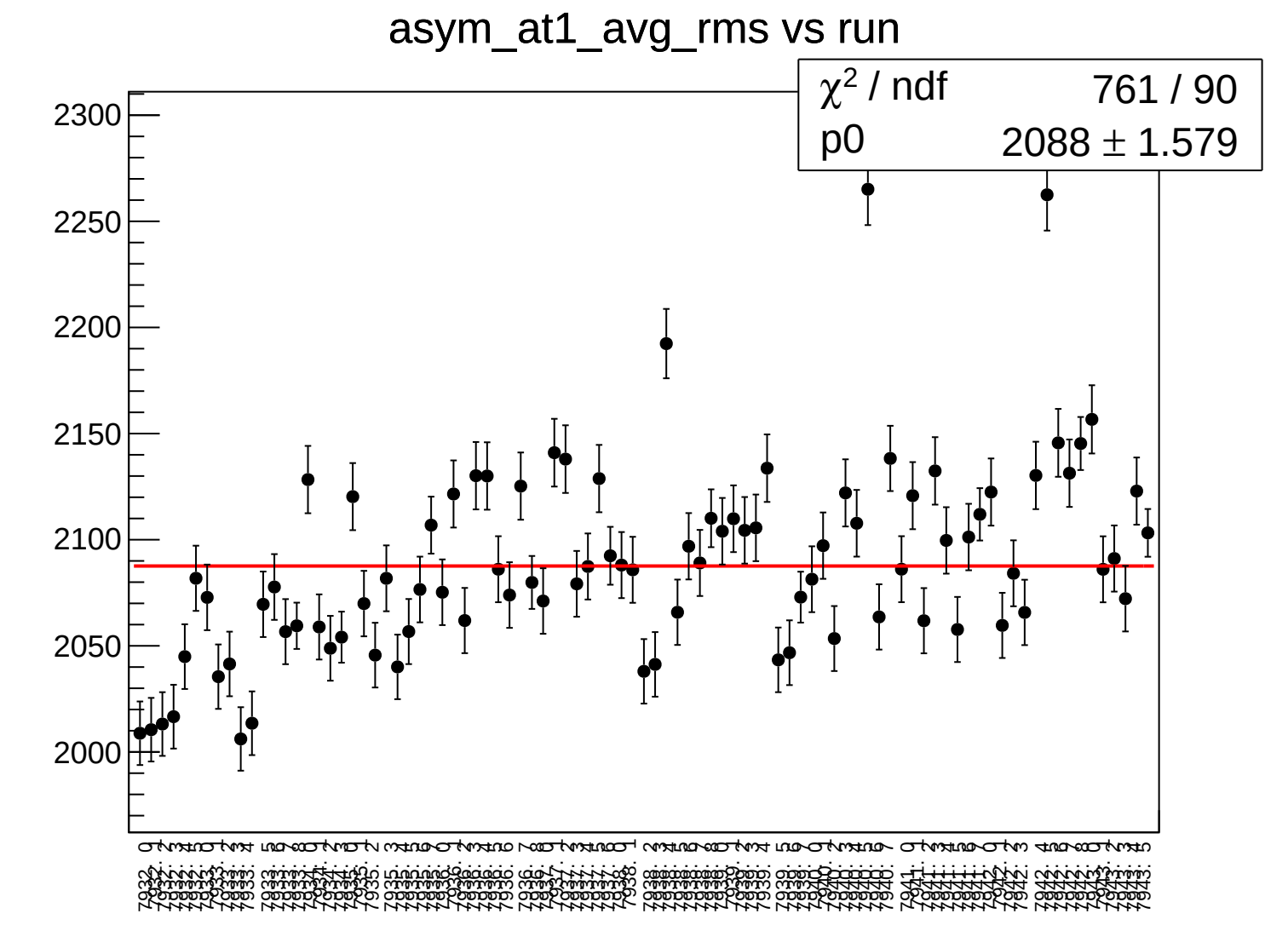

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 118 / 90
p0 −524.6 ± 1015
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 2096
Std Dev 0
3
2
1
0
−1
−2
−3

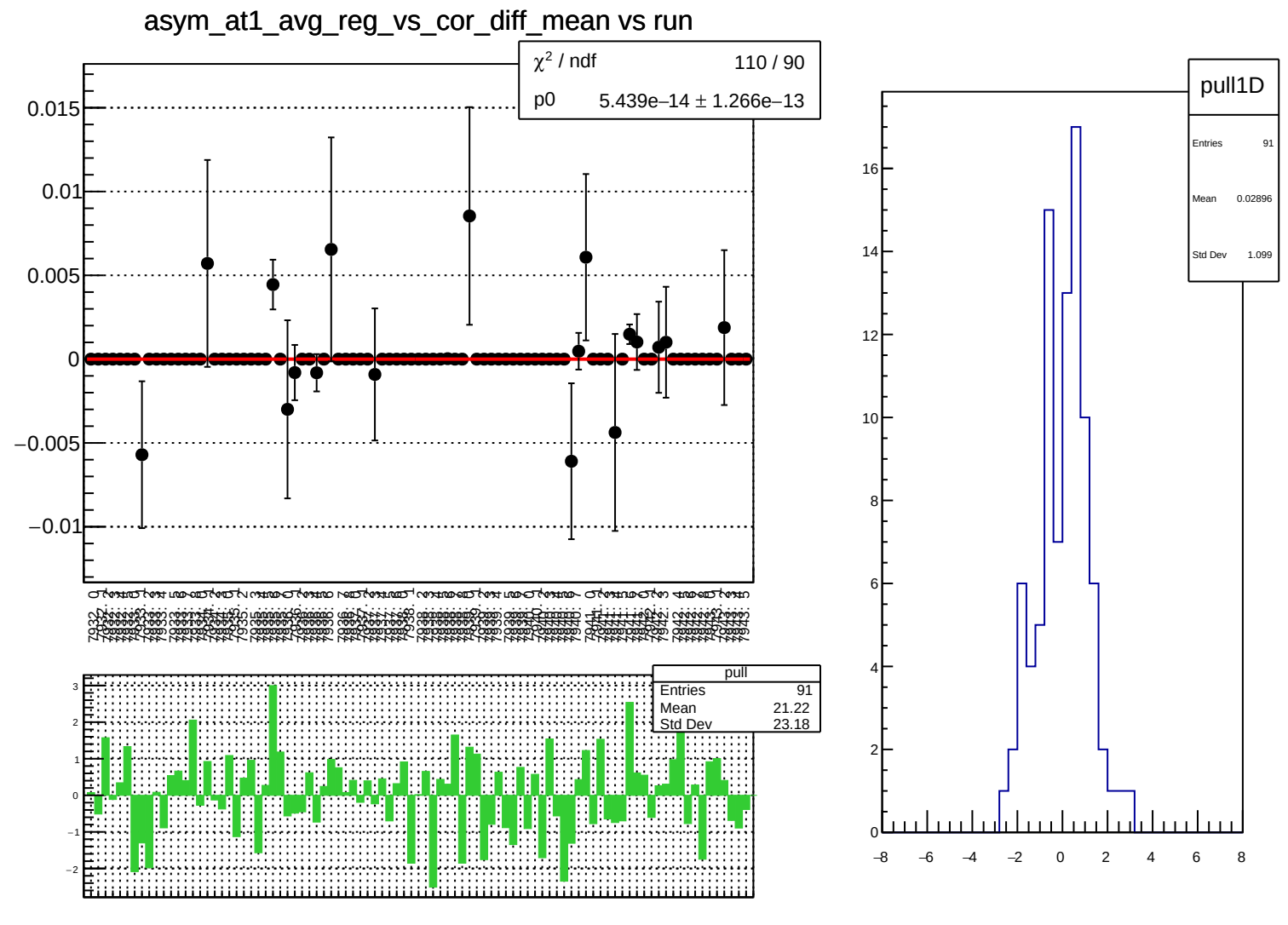

pull1D
Entries 91
Mean 0.0005485
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

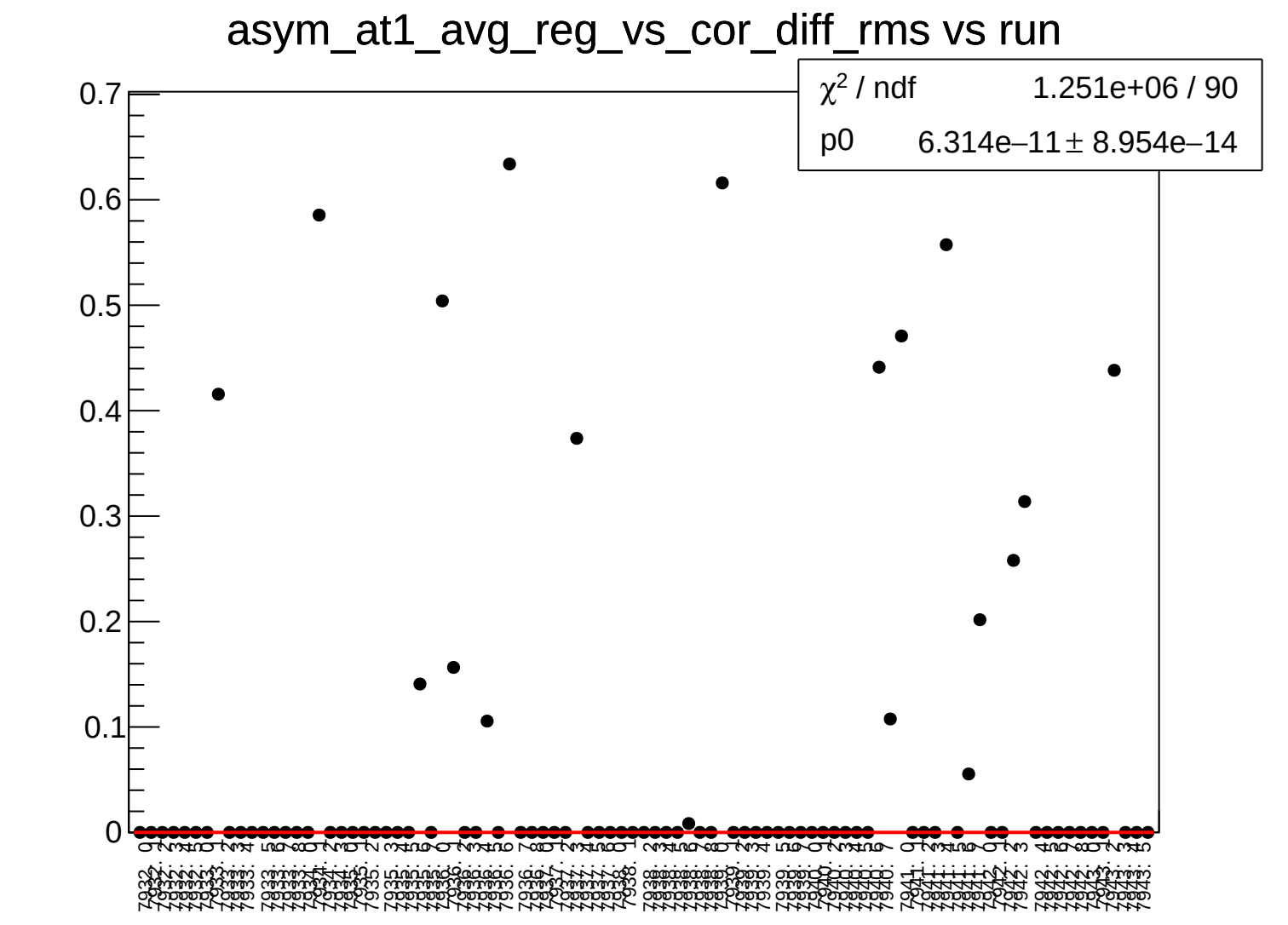

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2261 / 90
p0 948.2 ± 0.7176
1100
1050
1000
950
900
850

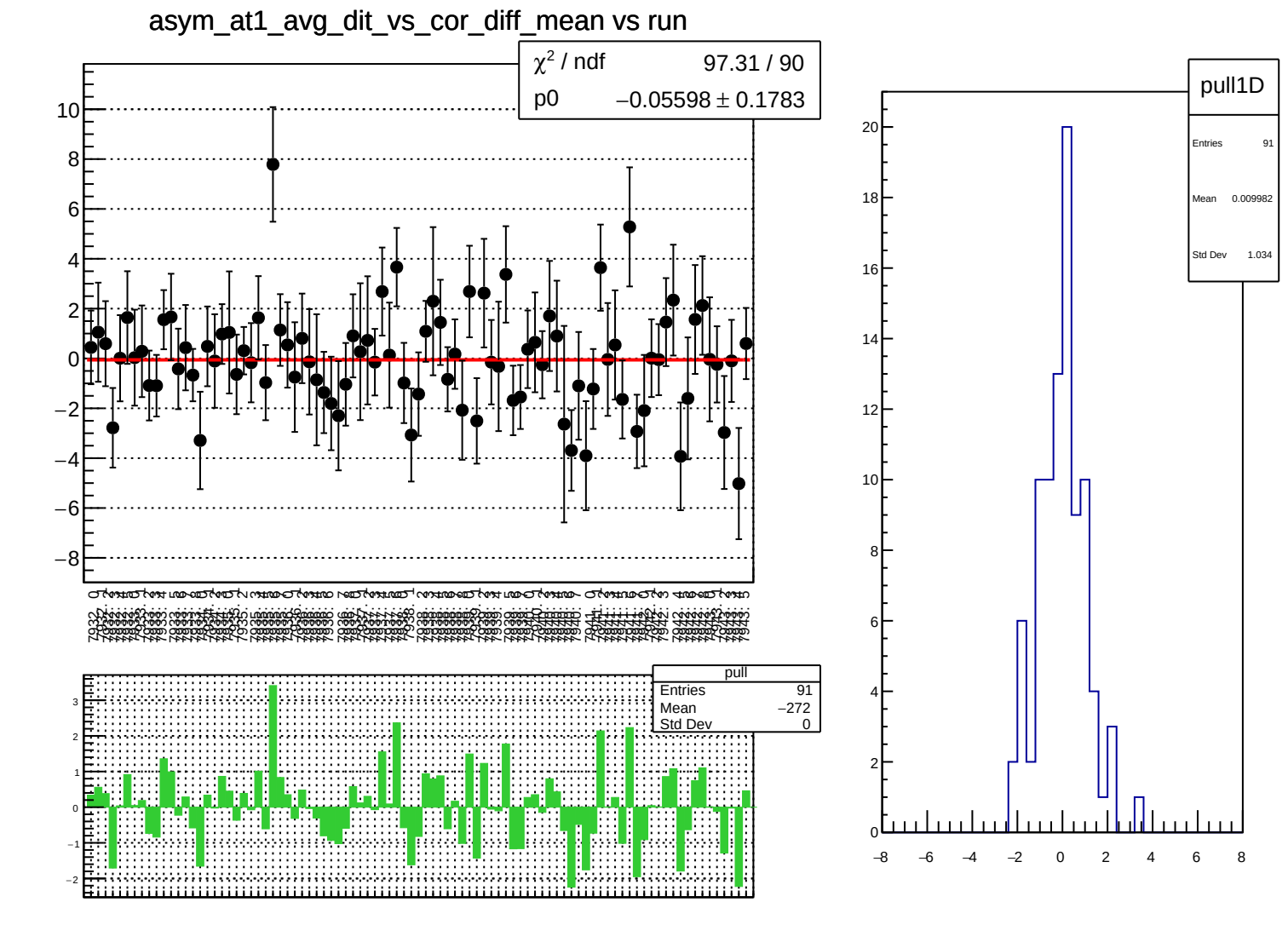

asym_at1_avg_mean vs run
×10^3
χ² / ndf 107.2 / 90
p0 −229.7 ± 2233
pull
Entries 91
Mean −723
Std Dev 0

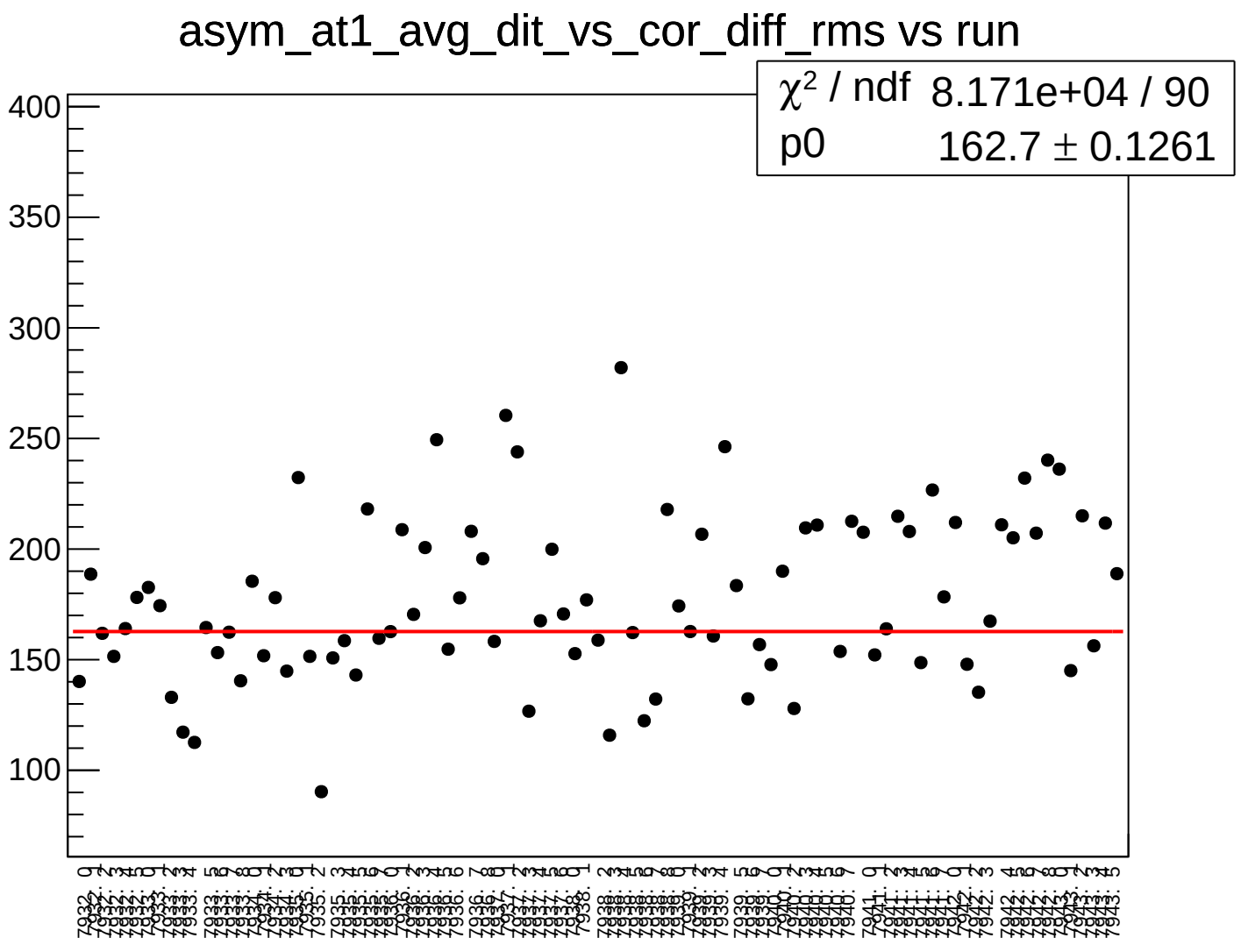

pull1D
Entries 91
Mean −0.00454
Std Dev 1.086

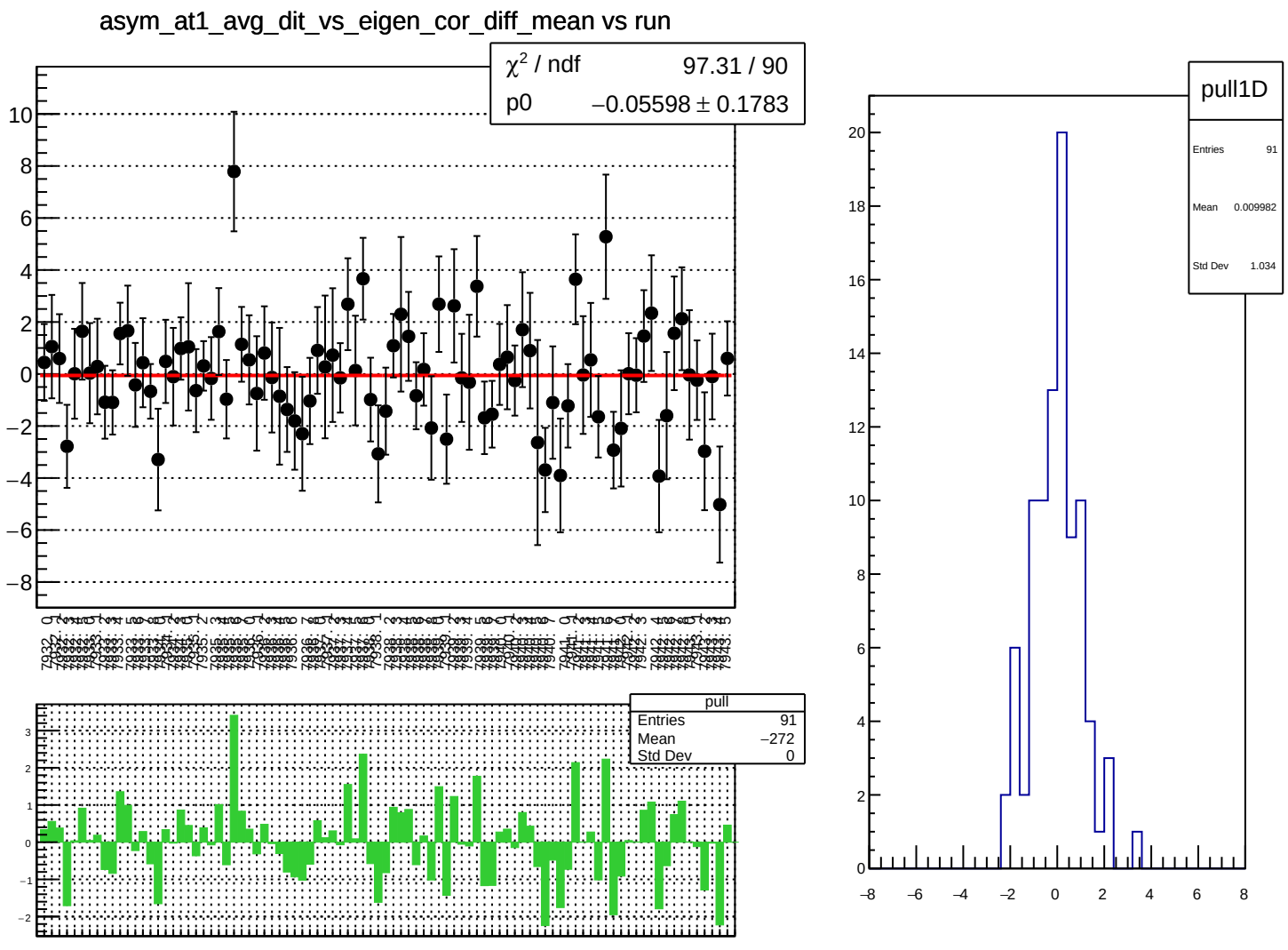

asym_at1_avg_rms vs run
χ^2 / ndf 761 / 90
p0 2088 ± 1.579
2300
2250
2200
2150
2100
2050
2000

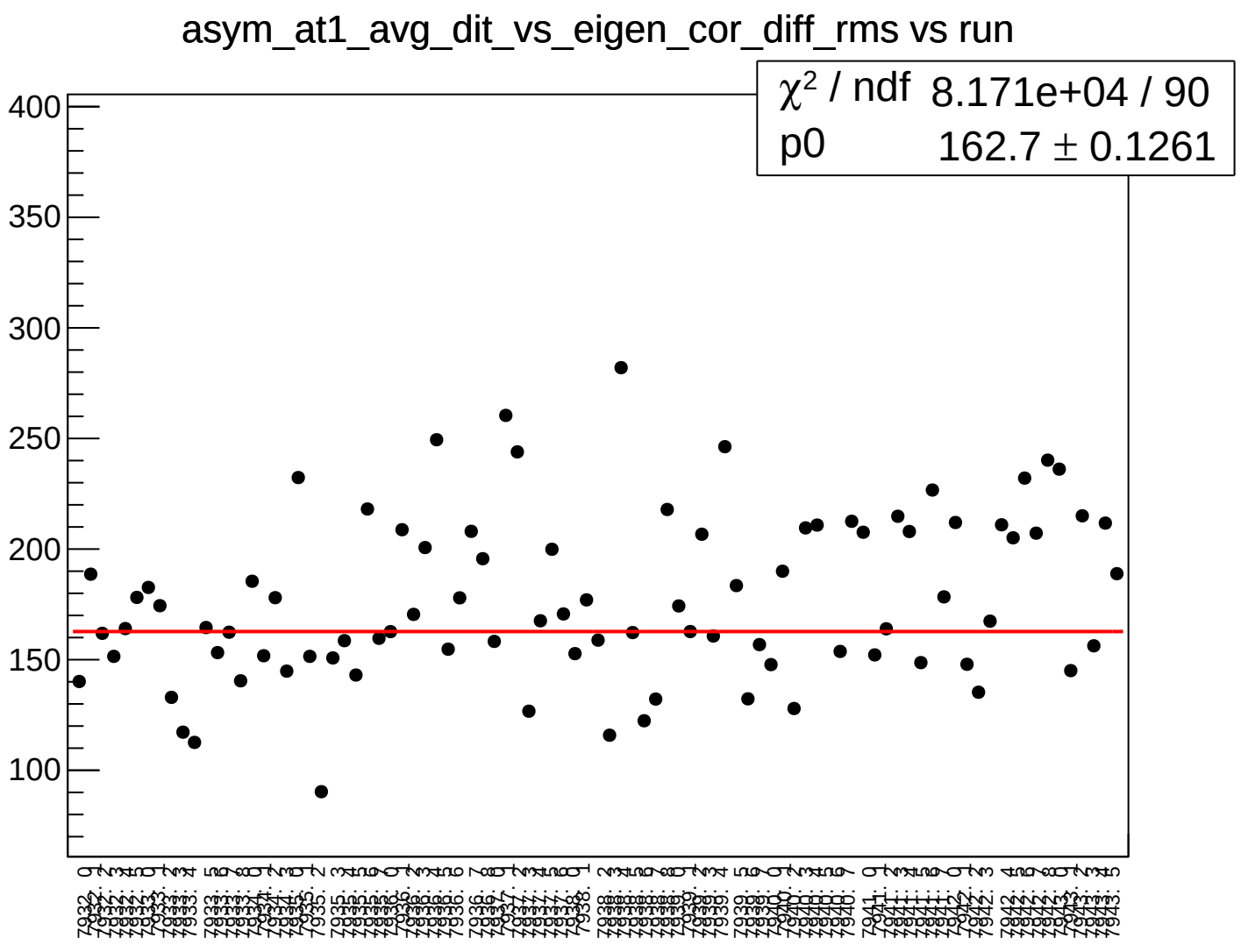

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110 / 90
p0 5.439e−14 ± 1.266e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 21.22
Std Dev 23.18
pull1D
Entries 91
Mean 0.02896
Std Dev 1.099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

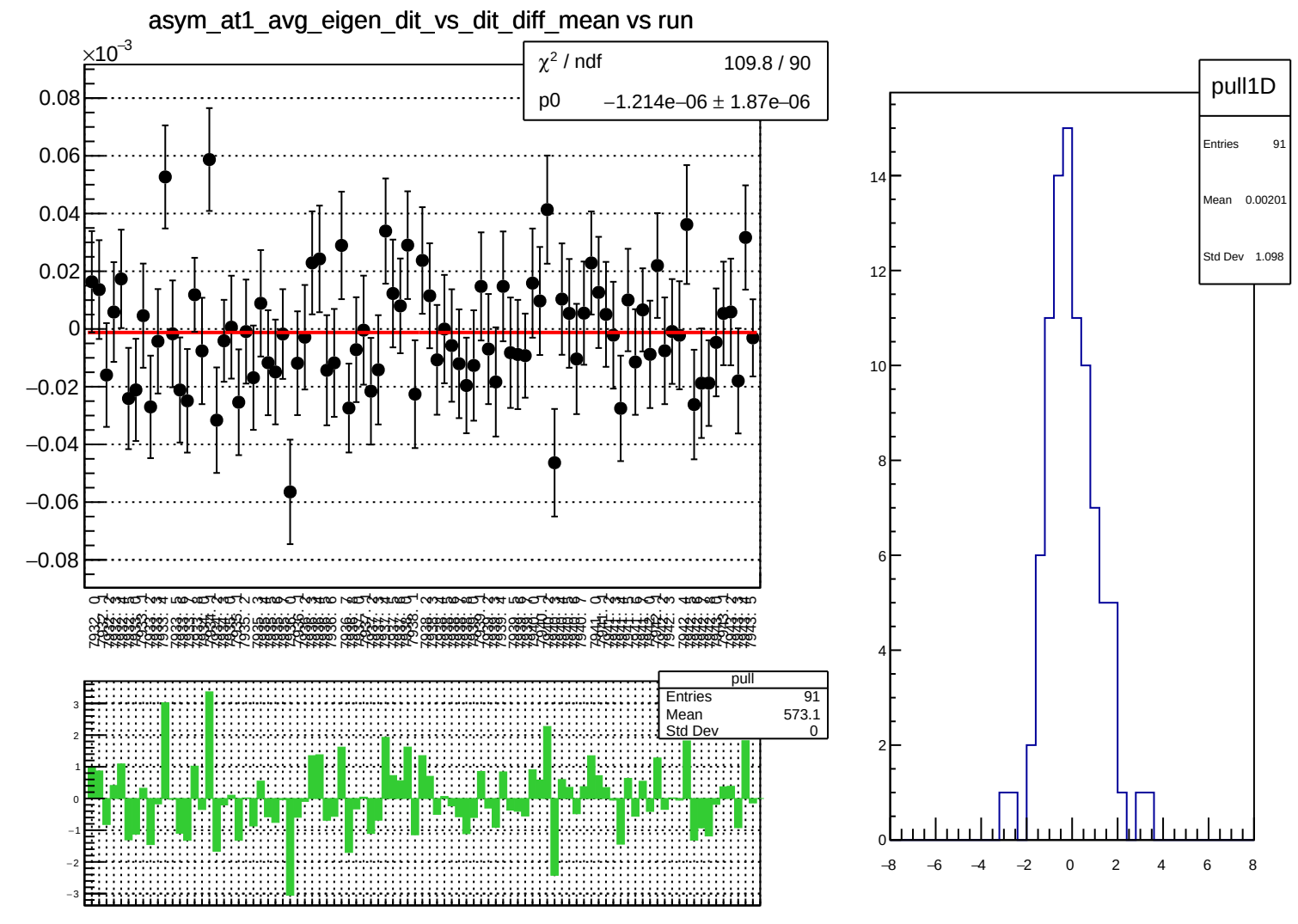

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.251e+06 / 90
p0 6.314e−11 ± 8.954e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

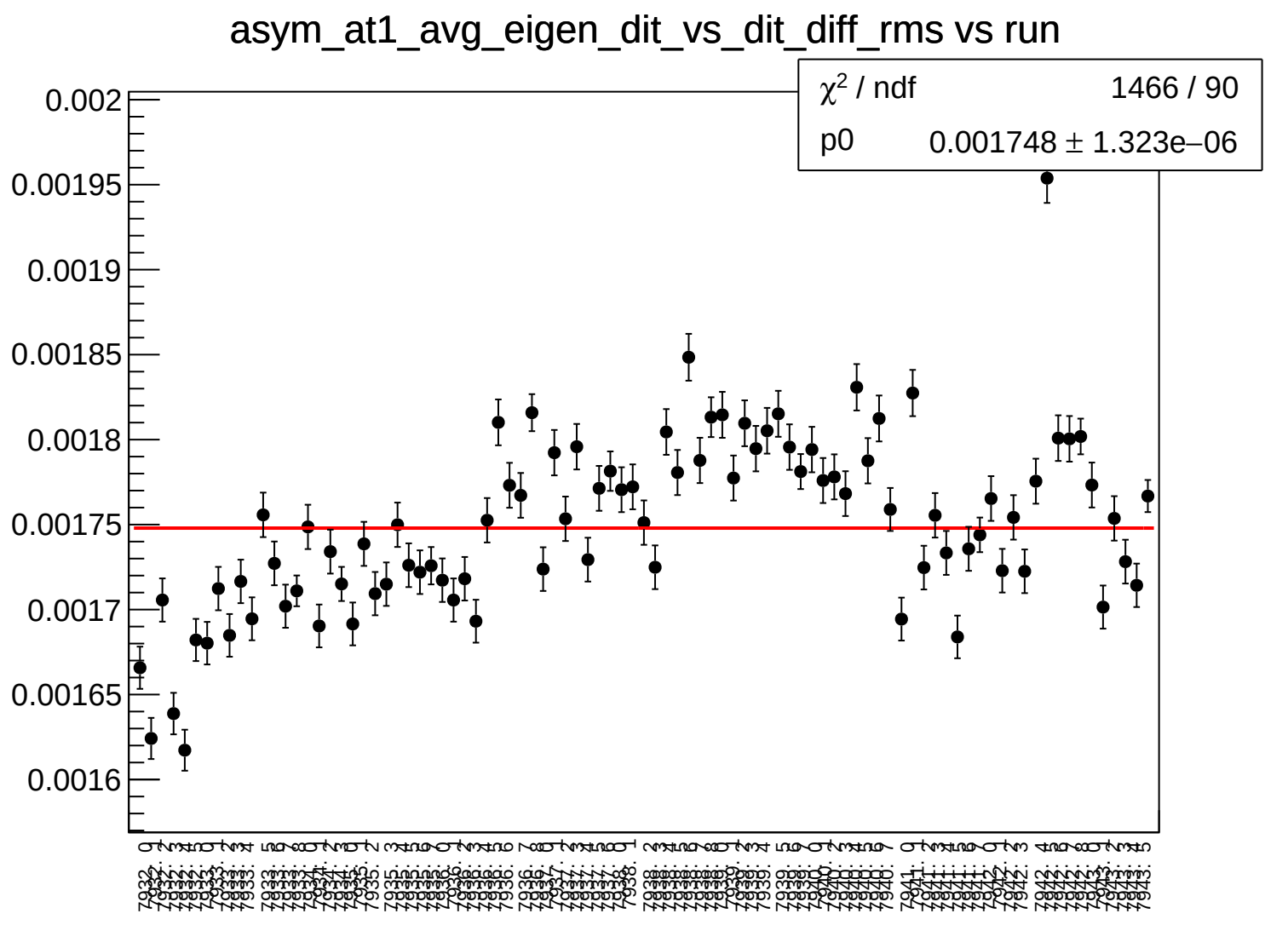

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.31 / 90
p0 −0.05598 ± 0.1783
pull
Entries 91
Mean −272
Std Dev 0
pull1D
Entries 91
Mean 0.009982
Std Dev 1.034

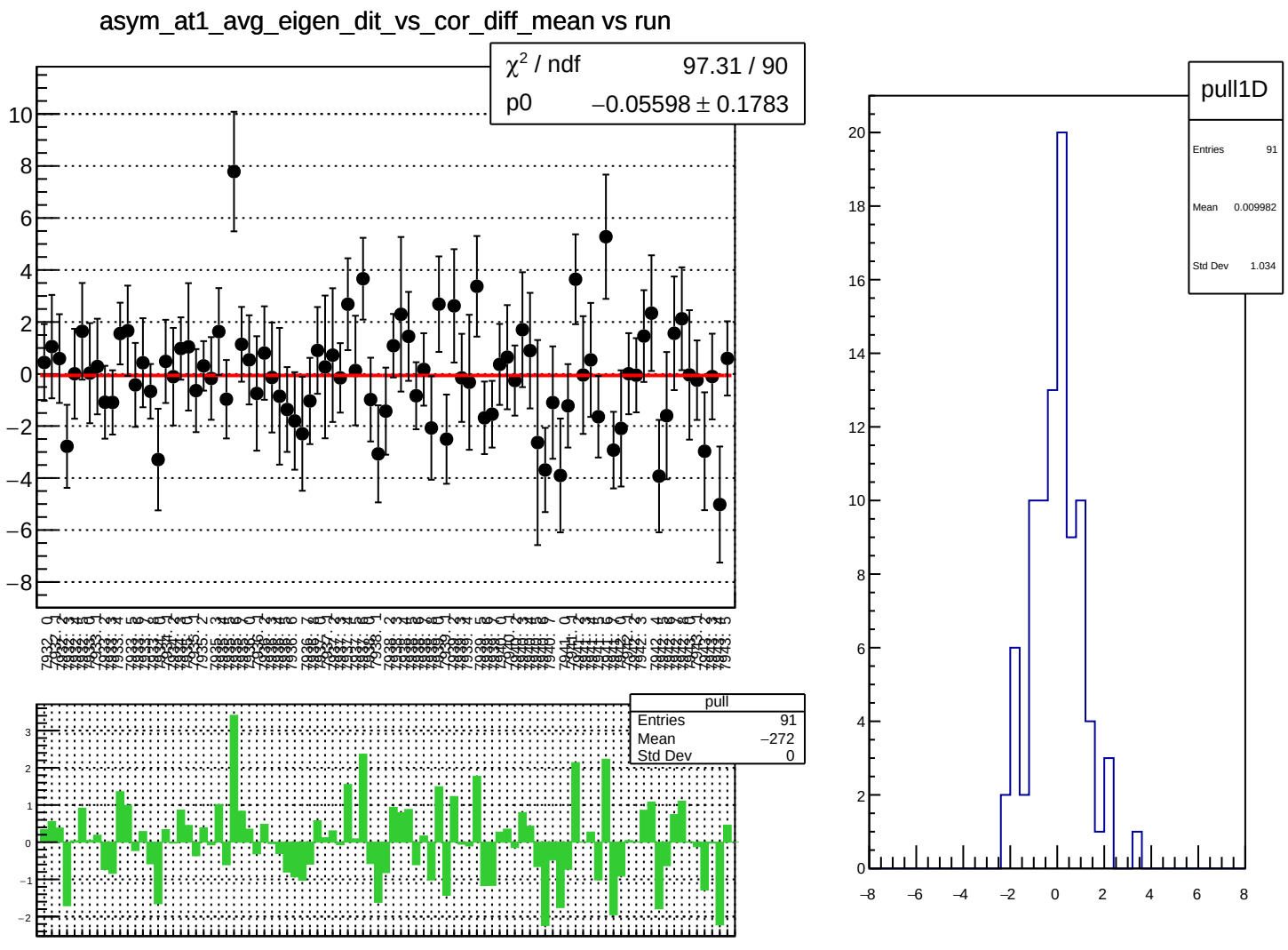

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.171e+04 / 90
p0 162.7 ± 0.1261
400
350
300
250
200
150
100

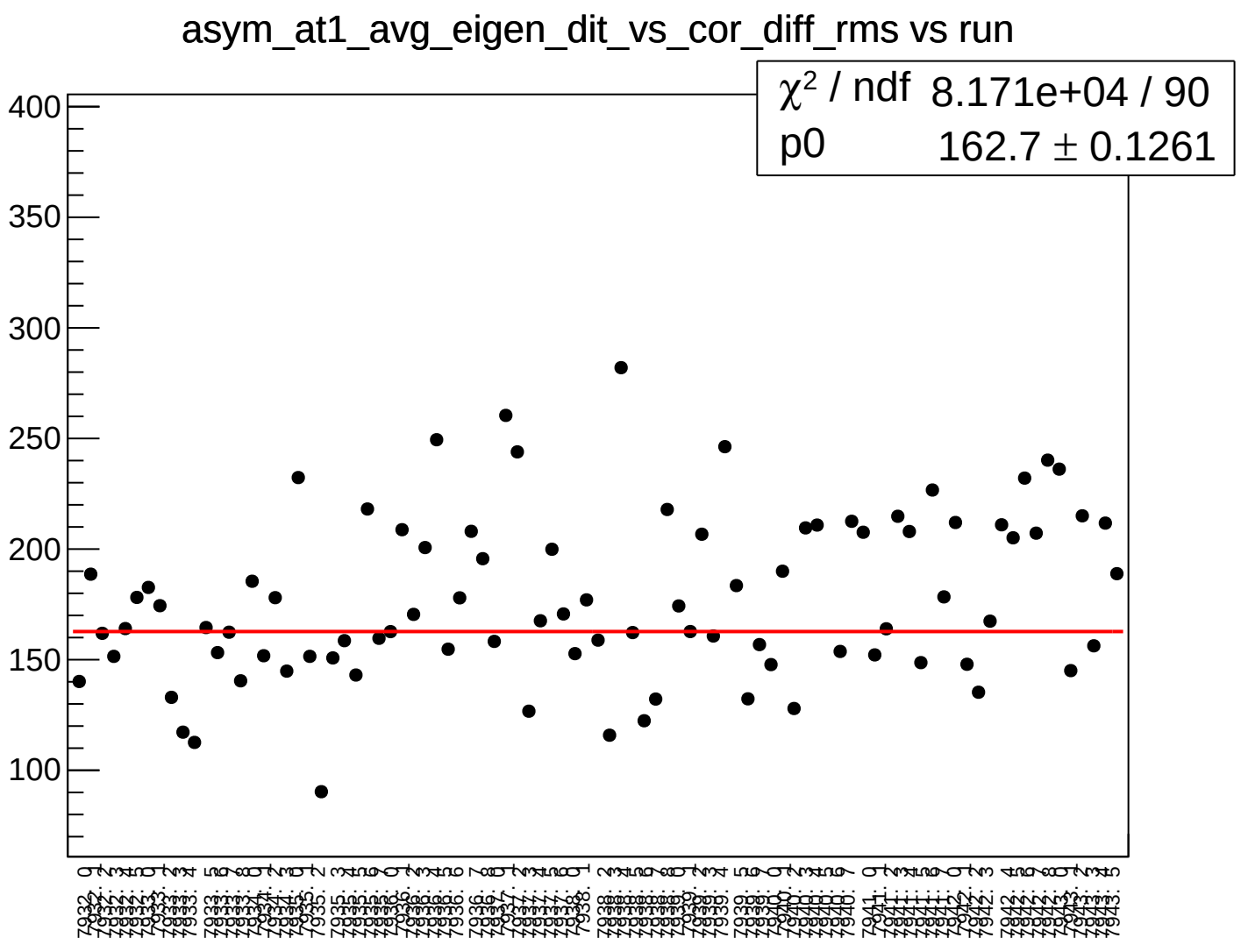

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.31 / 90
p0 −0.05598 ± 0.1783
pull
Entries 91
Mean −272
Std Dev 0
pull1D
Entries 91
Mean 0.009982
Std Dev 1.034

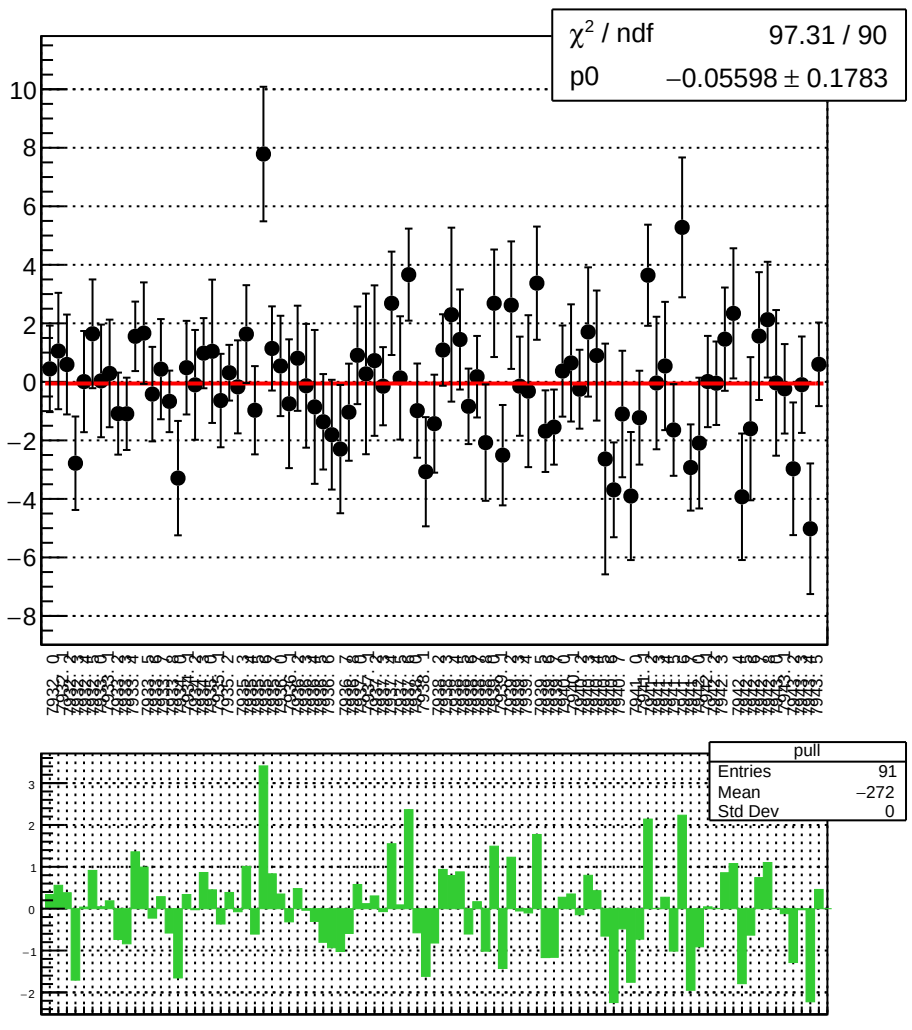

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.171e+04 / 90
p0 162.7 ± 0.1261
400
350
300
250
200
150
100

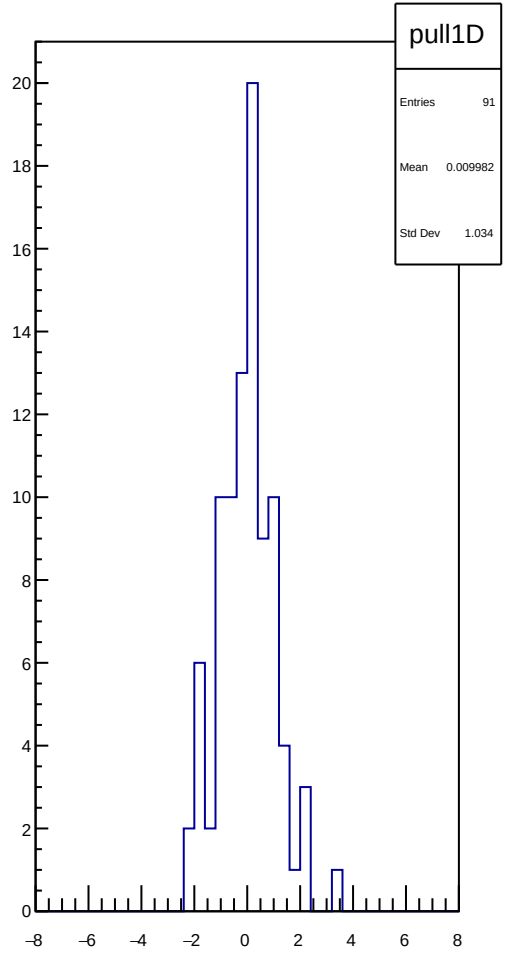

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.8 / 90
p0 −1.214e−06 ± 1.87e−06
pull
Entries 91
Mean 573.1
Std Dev 0
pull1D
Entries 91
Mean 0.00201
Std Dev 1.098

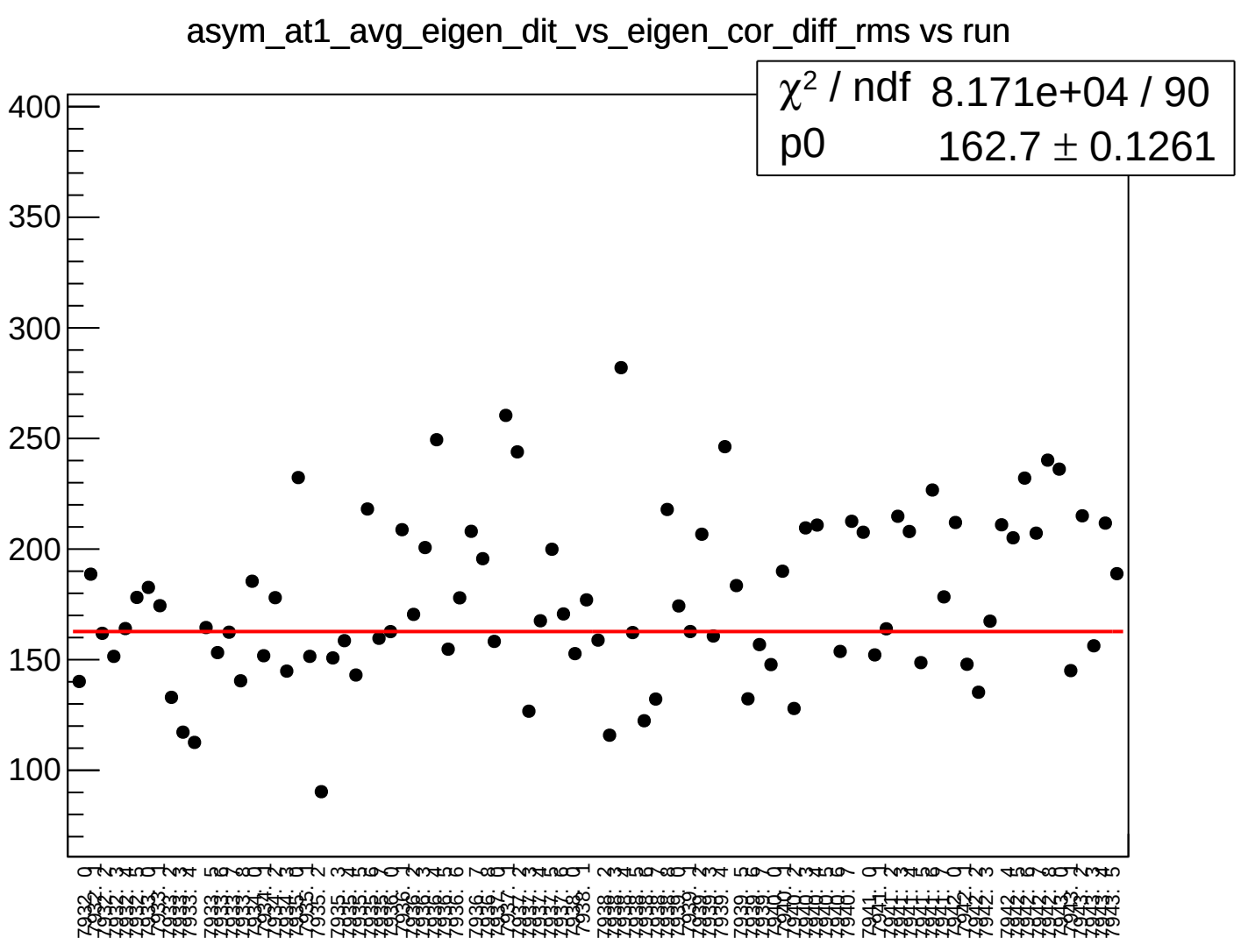

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1466 / 90
p0 0.001748 ± 1.323e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

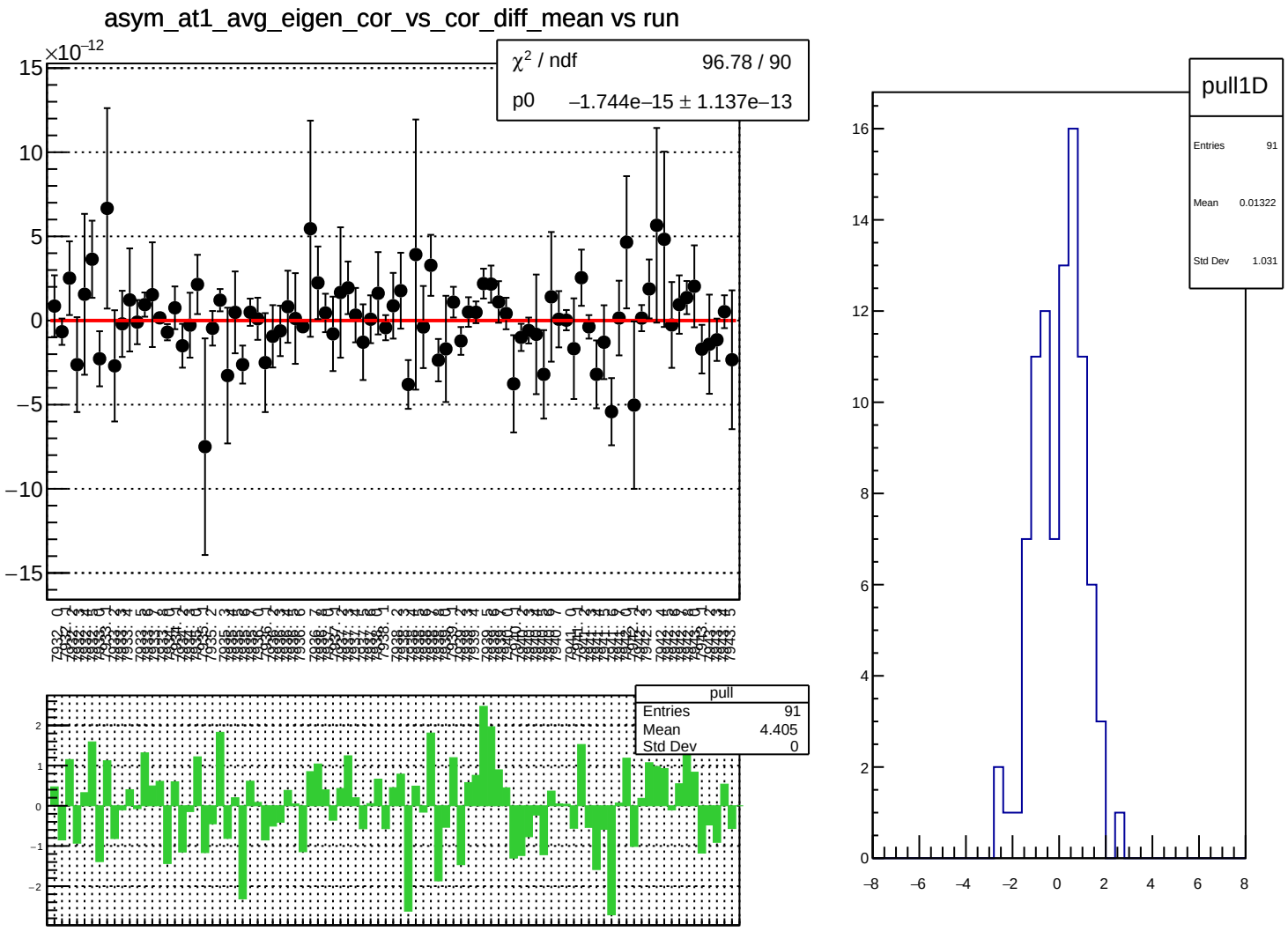

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.31 / 90
p0 −0.05598 ± 0.1783
pull
Entries 91
Mean −272
Std Dev 0
pull1D
Entries 91
Mean 0.009982
Std Dev 1.034

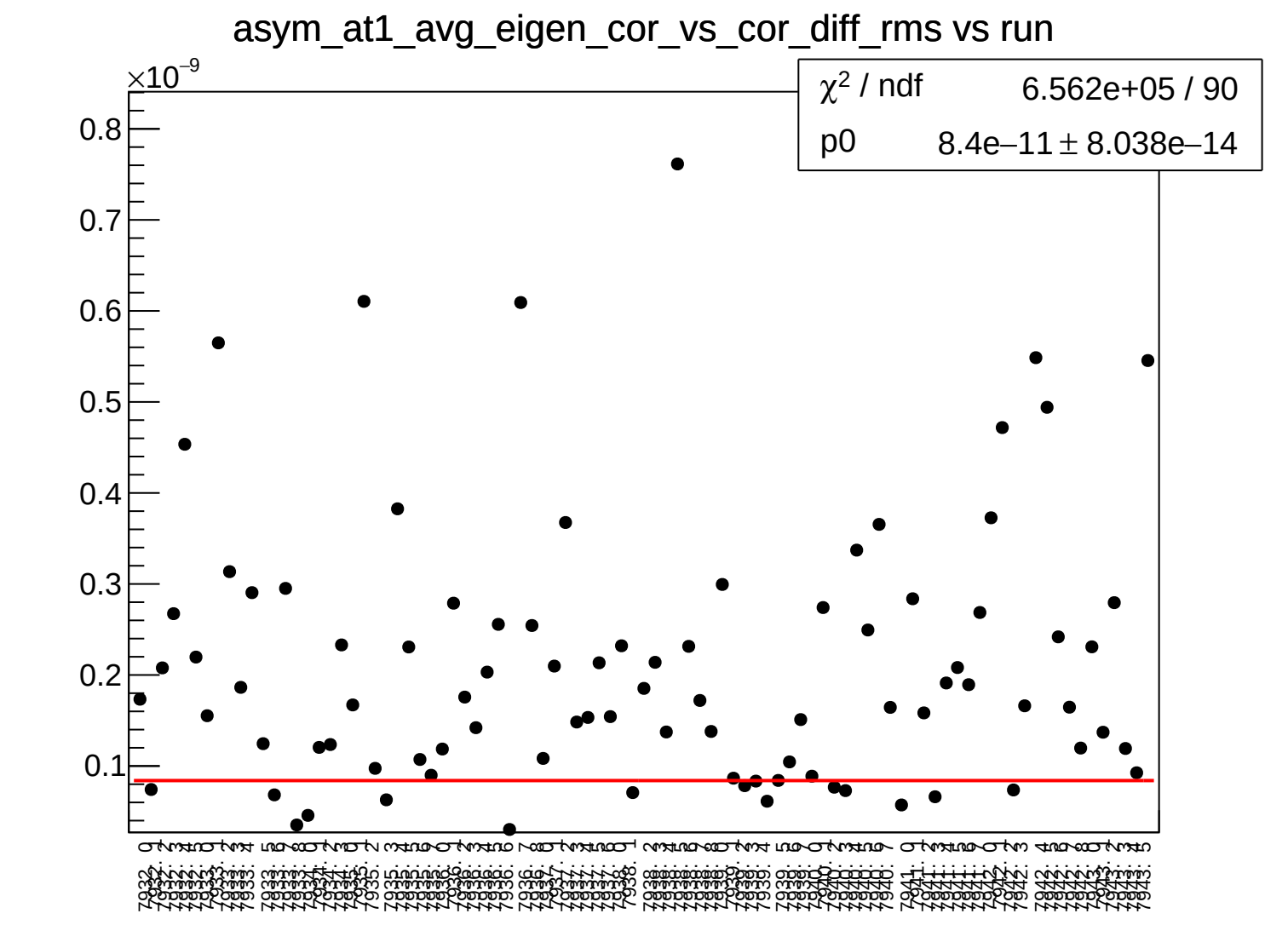

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.171e+04 / 90
p0 162.7 ± 0.1261
400
350
300
250
200
150
100

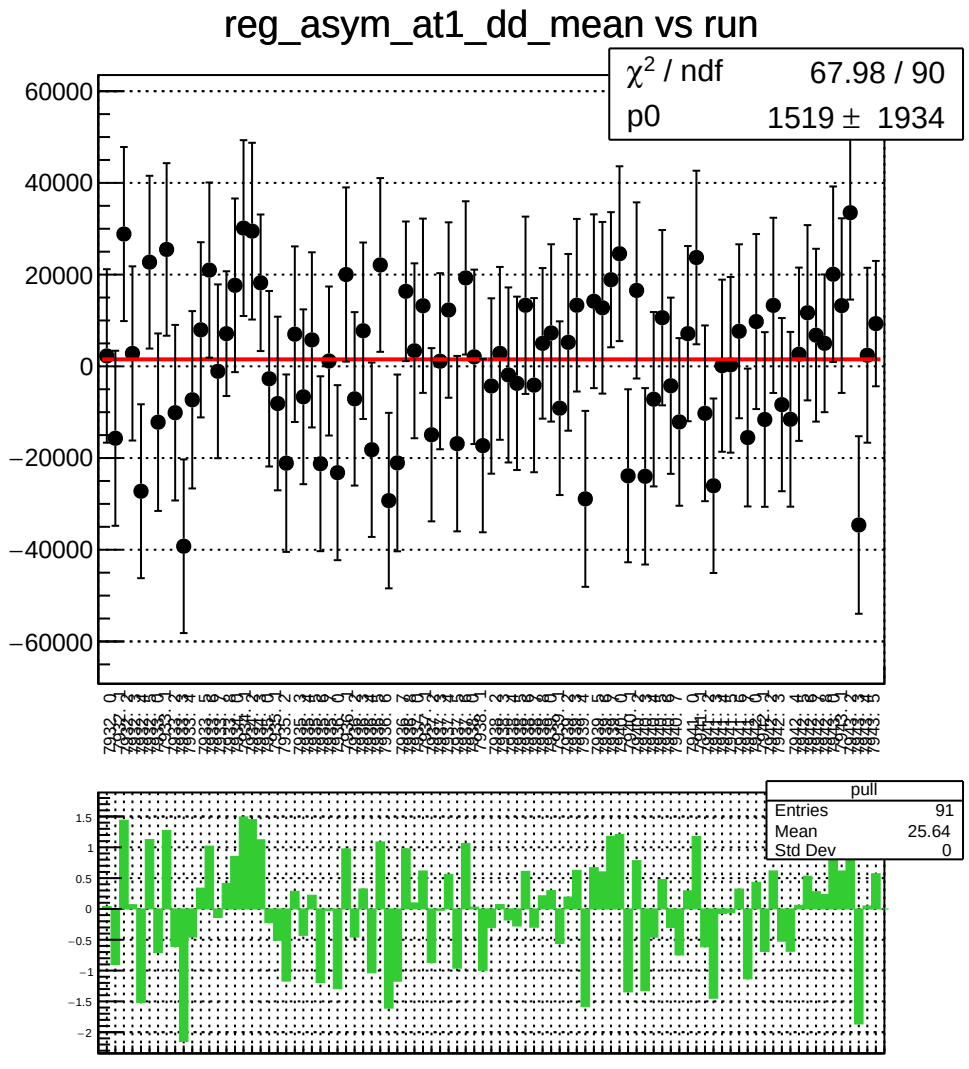

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.31 / 90
p0 −0.05598 ± 0.1783
pull
Entries 91
Mean −272
Std Dev 0

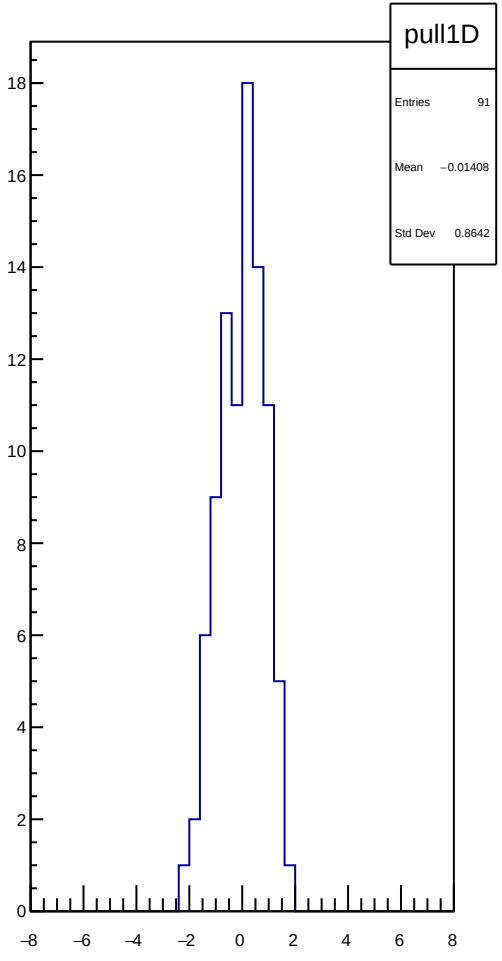

pull1D
Entries 91
Mean 0.009982
Std Dev 1.034

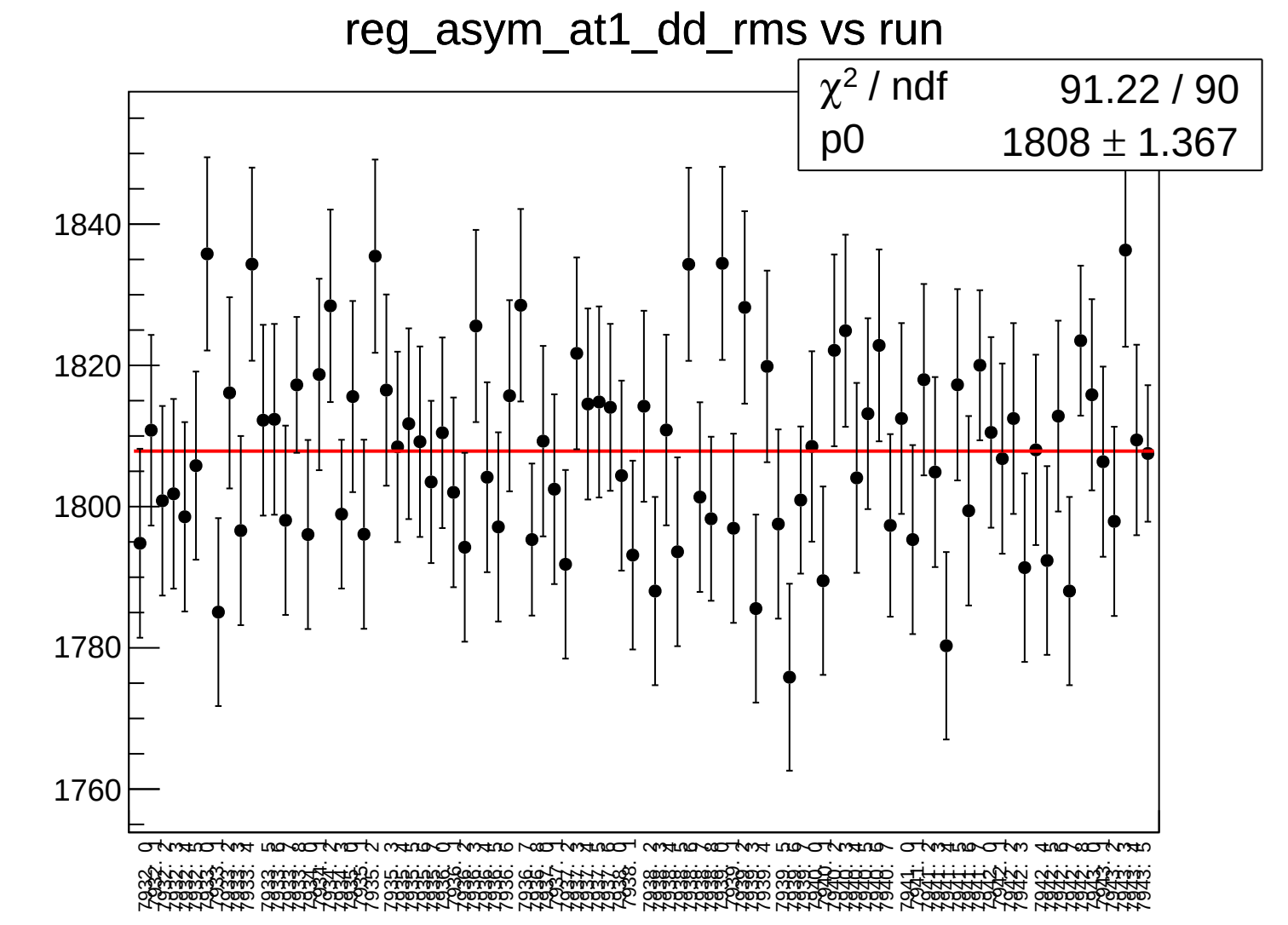

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.171e+04 / 90
p0 162.7 ± 0.1261
400
350
300
250
200
150
100

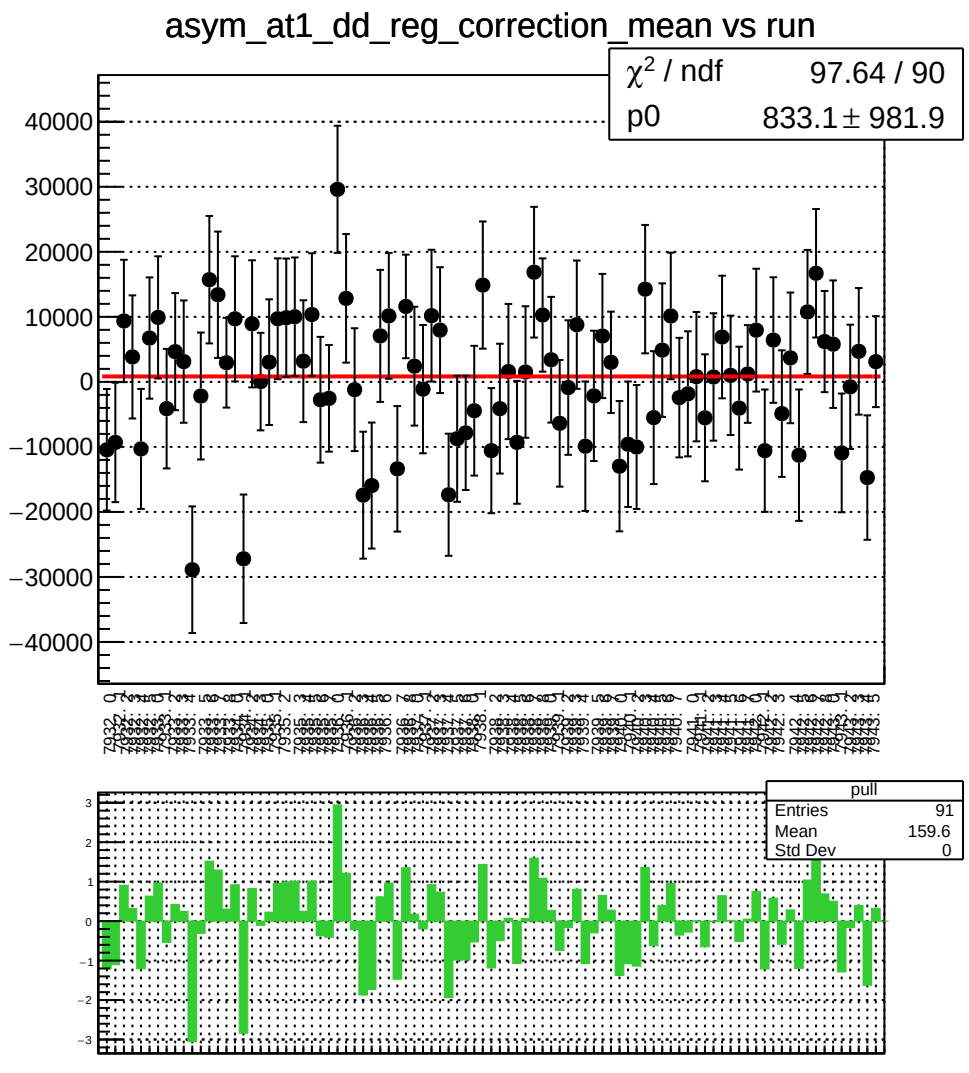

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.78 / 90
p0 −1.744e−15 ± 1.137e−13
pull
Entries 91
Mean 4.405
Std Dev 0
pull1D
Entries 91
Mean 0.01322
Std Dev 1.031

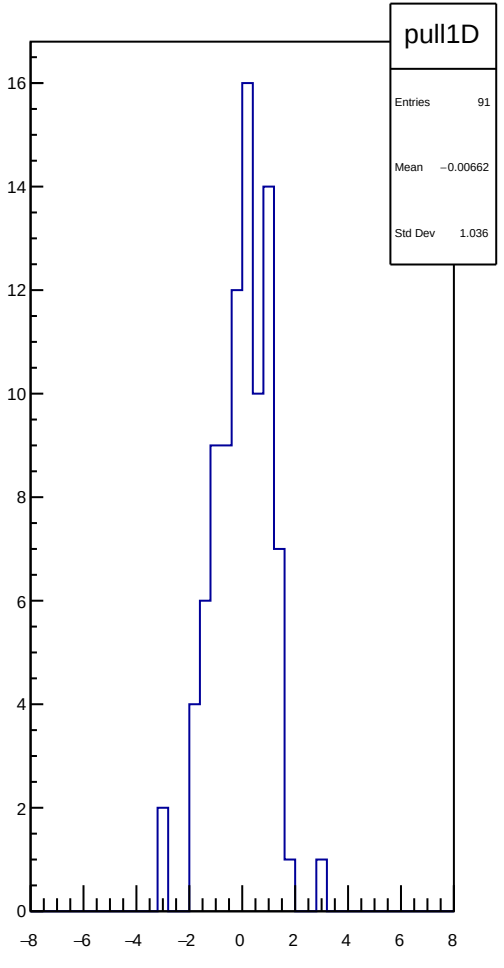

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.562e+05 / 90
p0 8.4e−11 ± 8.038e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

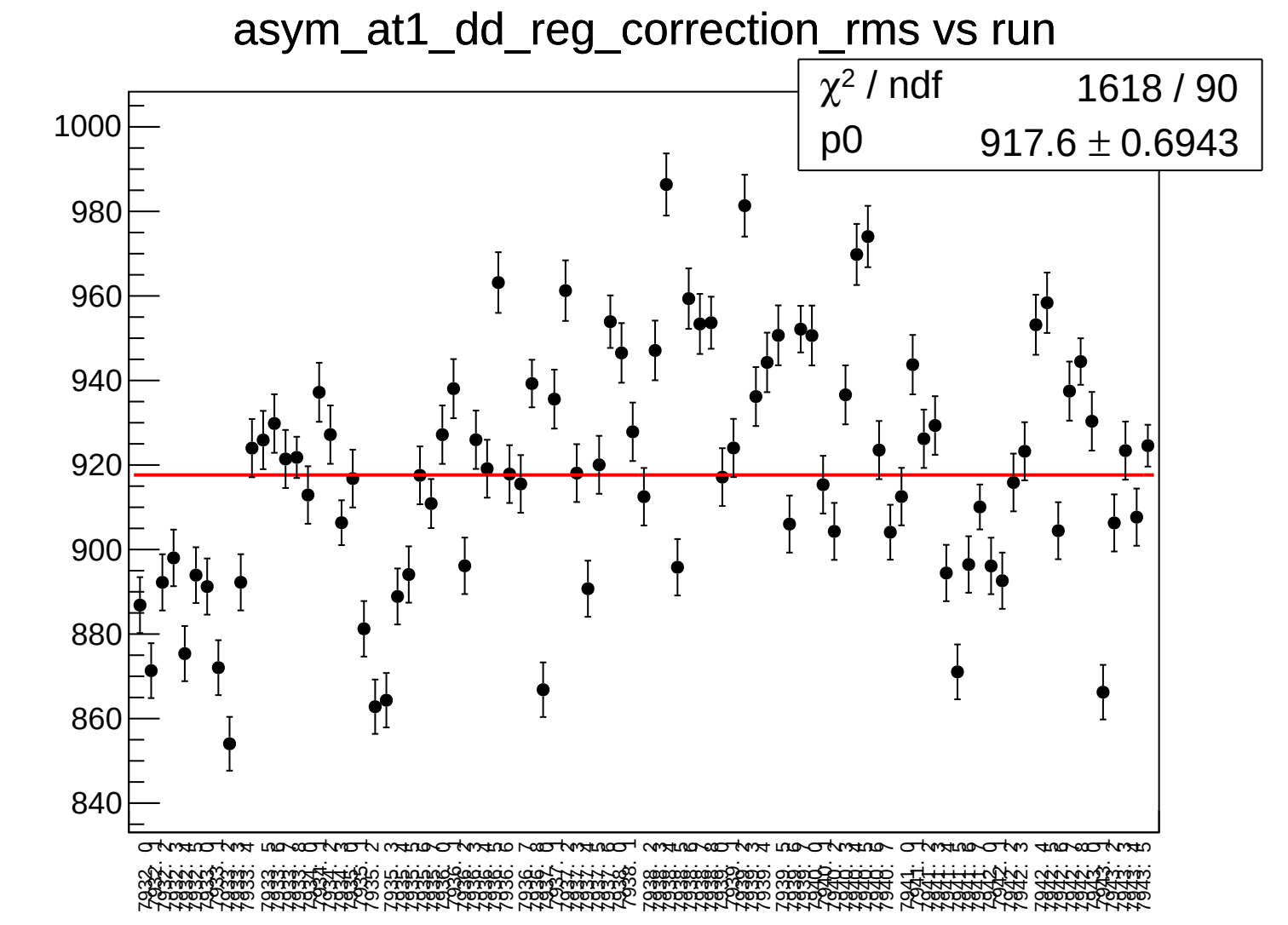

reg_asym_at1_dd_mean vs run
χ² / ndf 67.98 / 90
p0 1519 ± 1934
pull
Entries 91
Mean 25.64
Std Dev 0

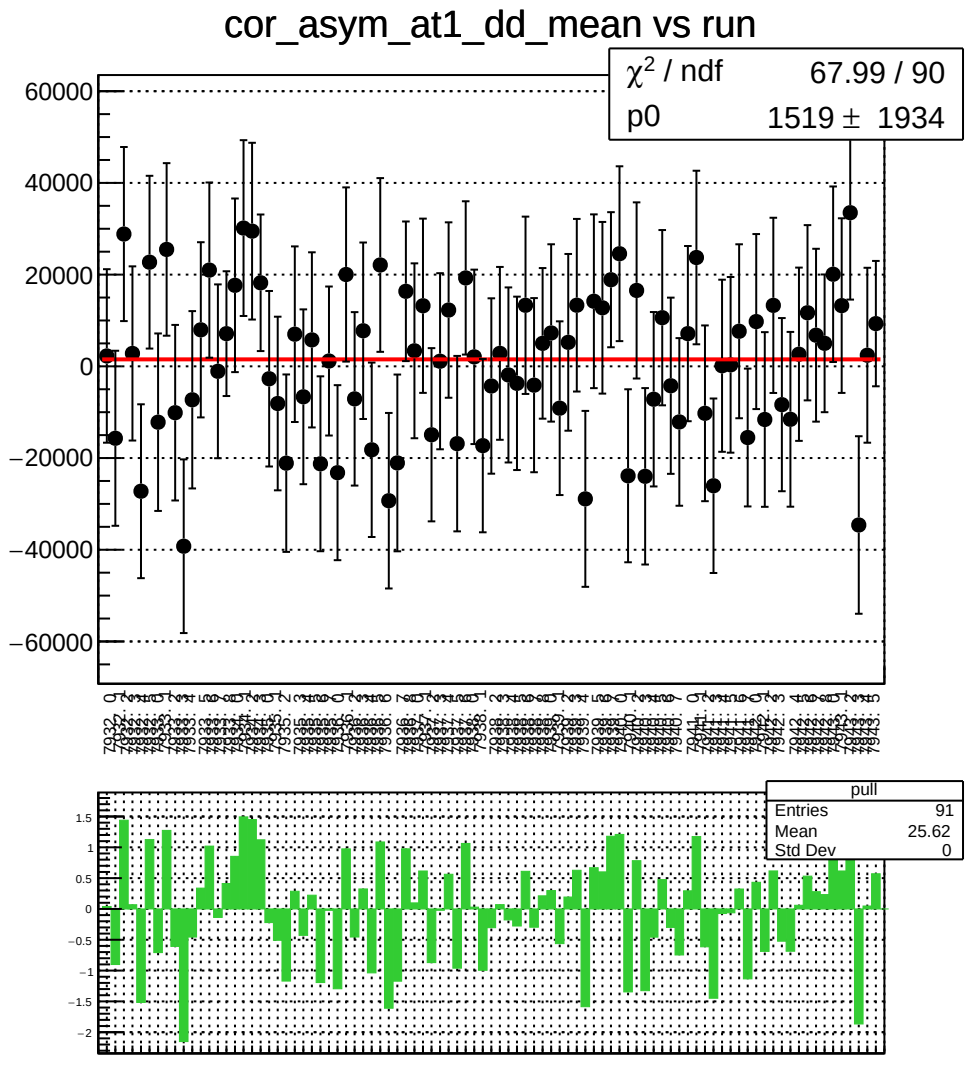

pull1D
Entries 91
Mean −0.01408
Std Dev 0.8642

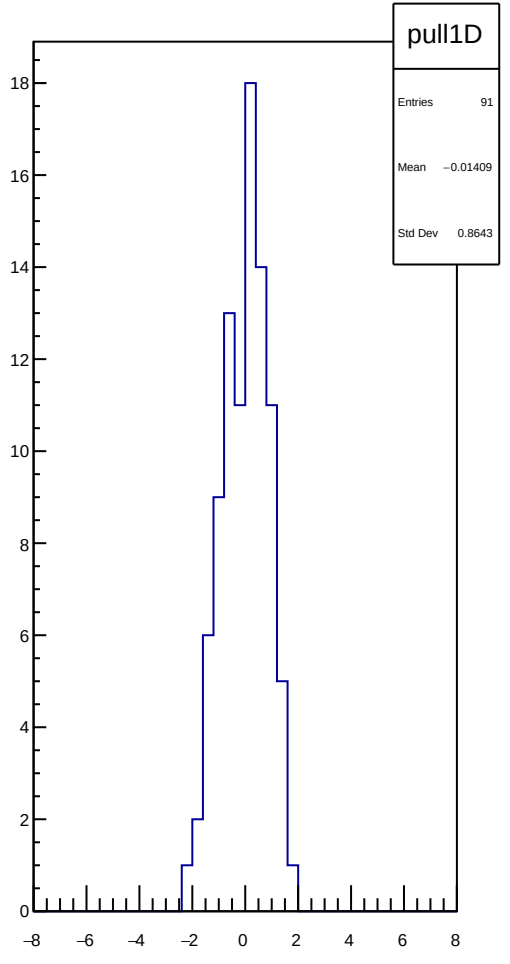

reg_asym_at1_dd_rms vs run
χ^2 / ndf 91.22 / 90
p0 1808 ± 1.367
1840
1820
1800
1780
1760

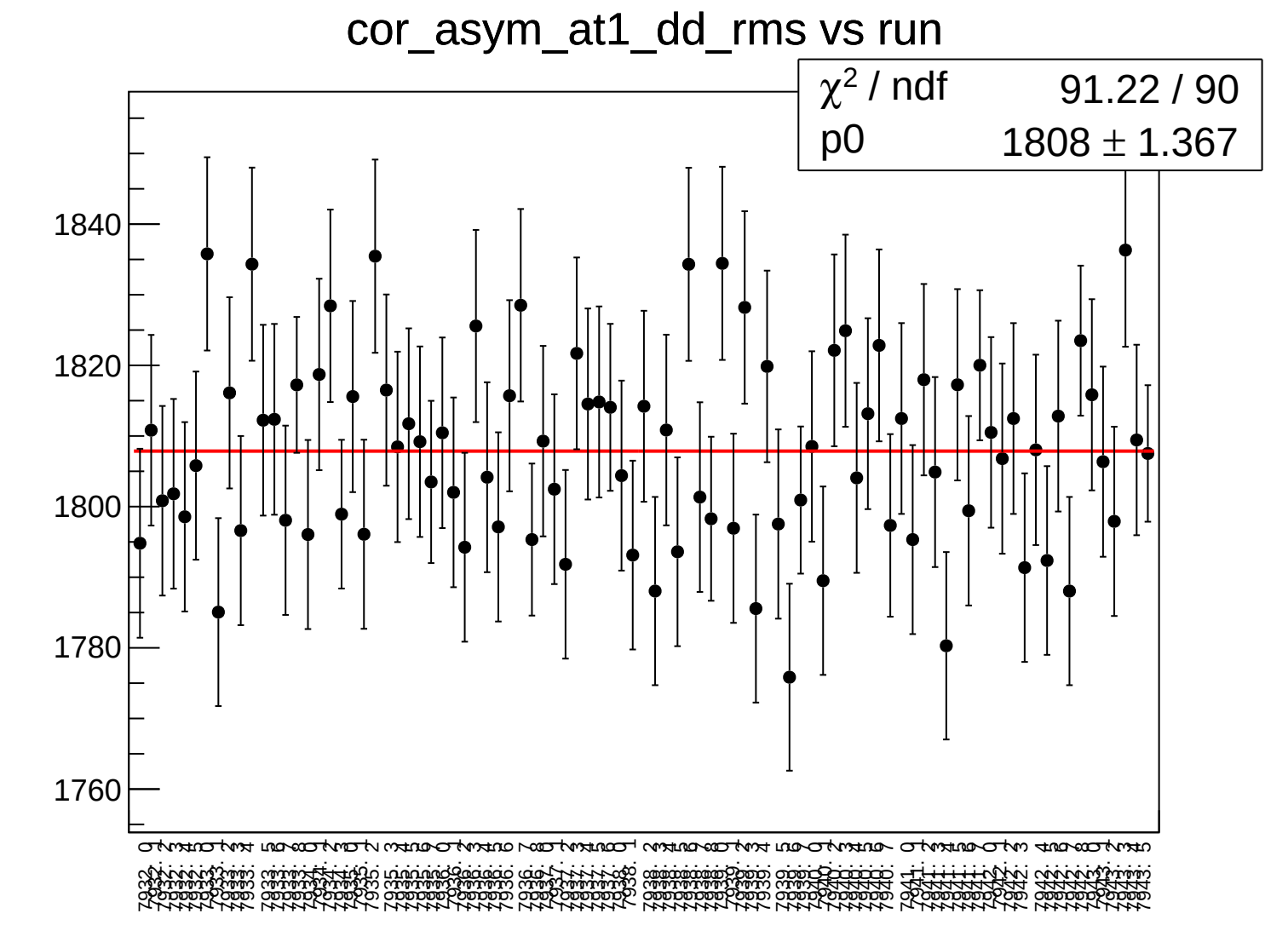

asym_at1_dd_reg_correction_mean vs run
χ^2 / ndf 97.64 / 90
p0 833.1 ± 981.9
pull
Entries 91
Mean 159.6
Std Dev 0

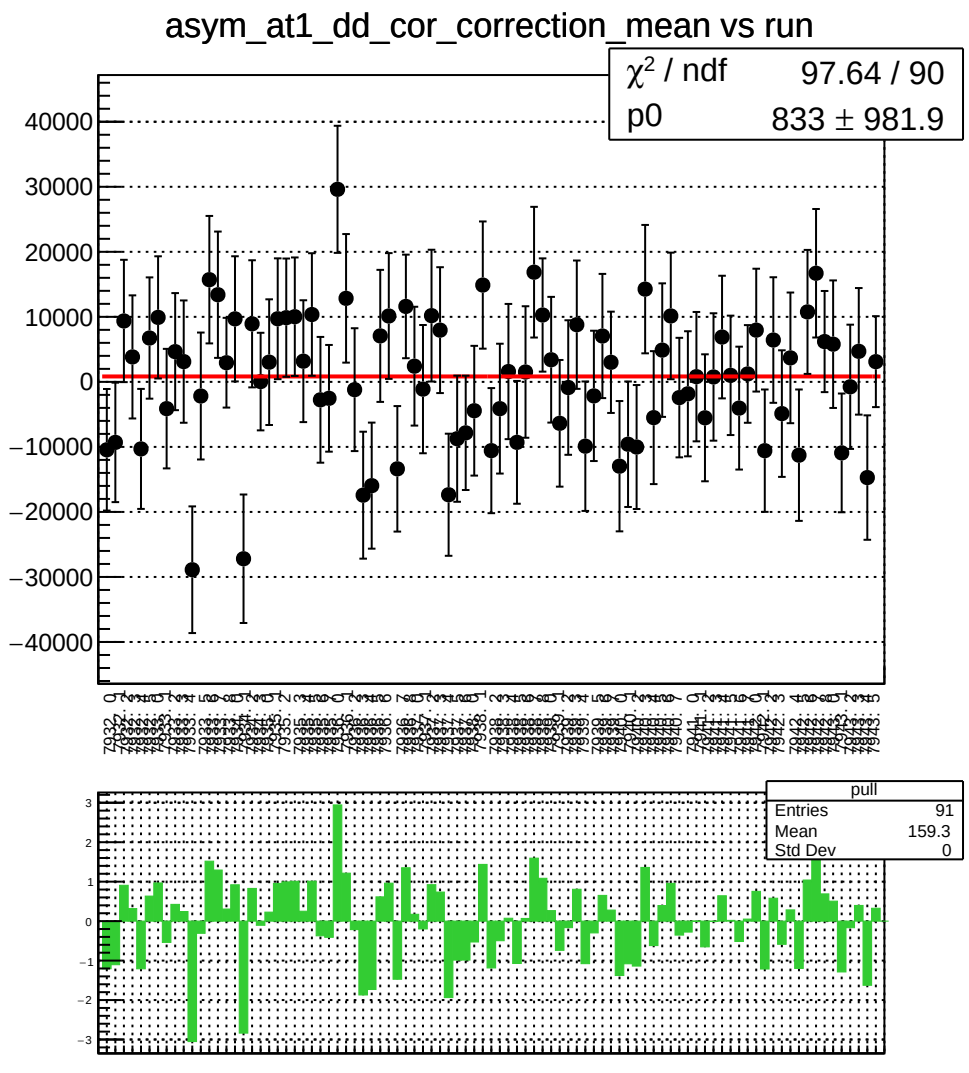

pull1D
Entries 91
Mean −0.00662
Std Dev 1.036

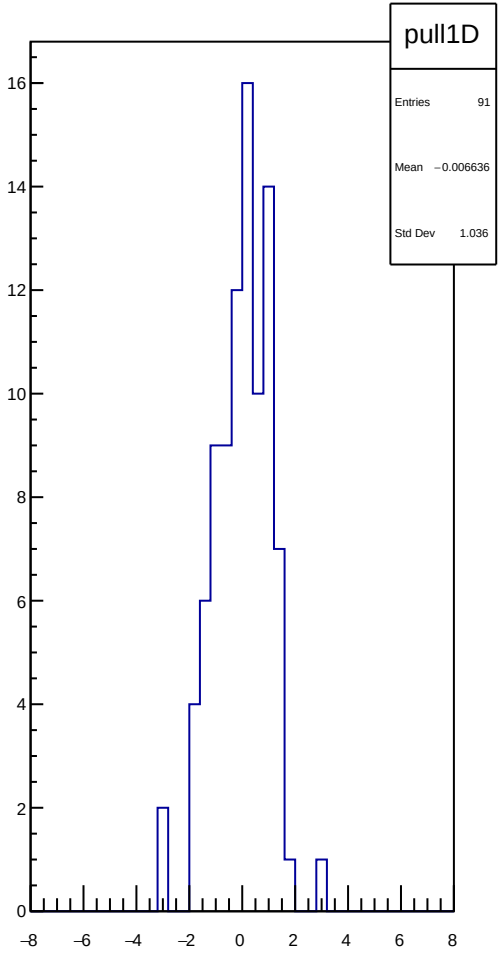

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1618 / 90
p0 917.6 ± 0.6943
1000
980
960
940
920
900
880
860
840

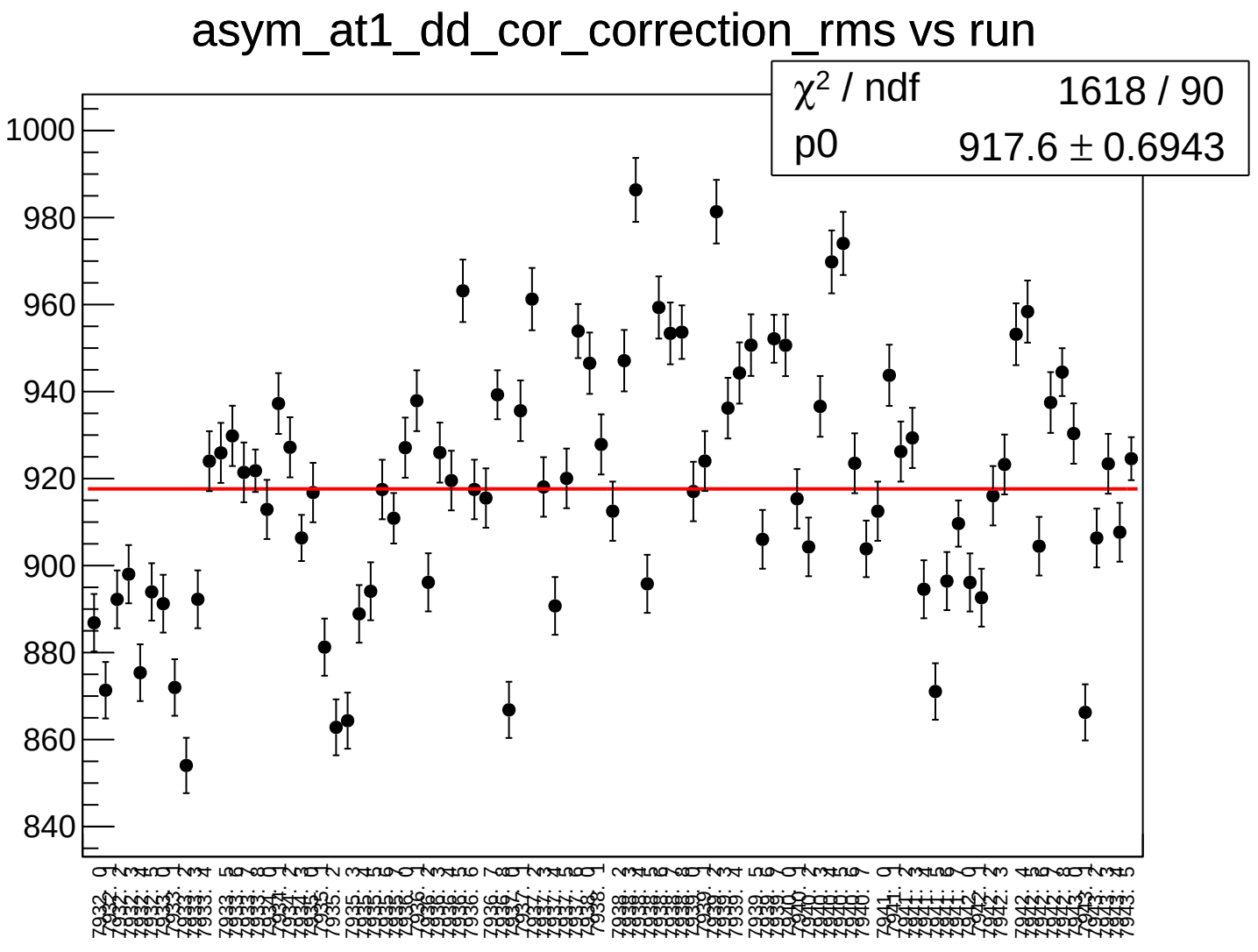

cor_asym_at1_dd_mean vs run
χ² / ndf 67.99 / 90
p0 1519 ± 1934
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 25.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

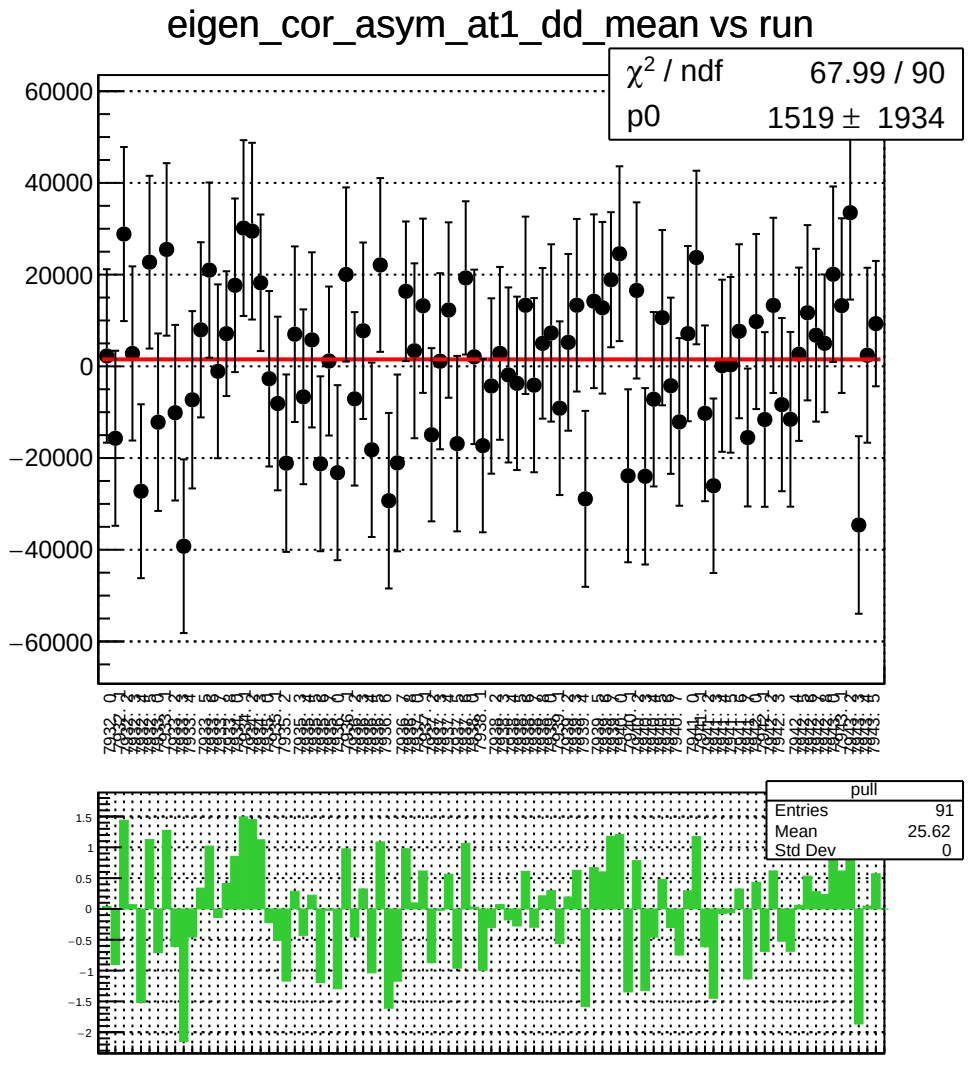

pull1D
Entries 91
Mean −0.01409
Std Dev 0.8643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

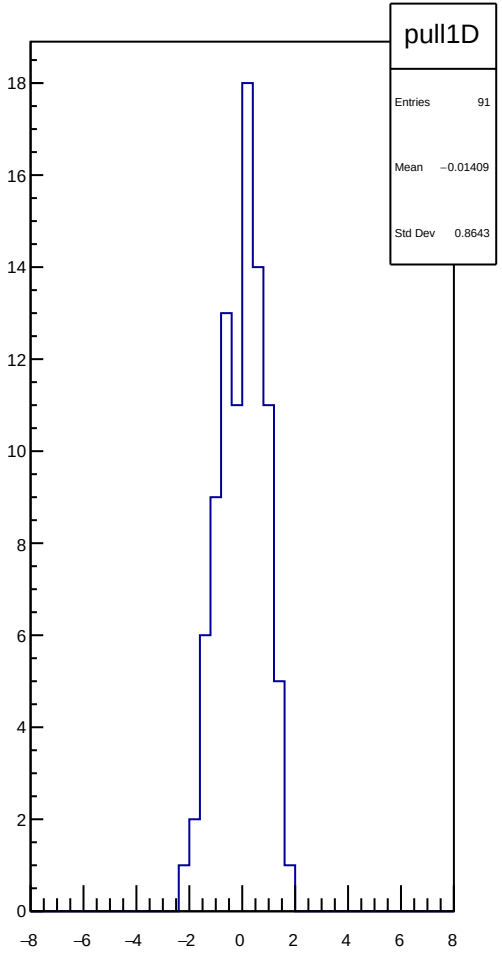

cor_asym_at1_dd_rms vs run
χ^2 / ndf 91.22 / 90
p0 1808 ± 1.367
1840
1820
1800
1780
1760

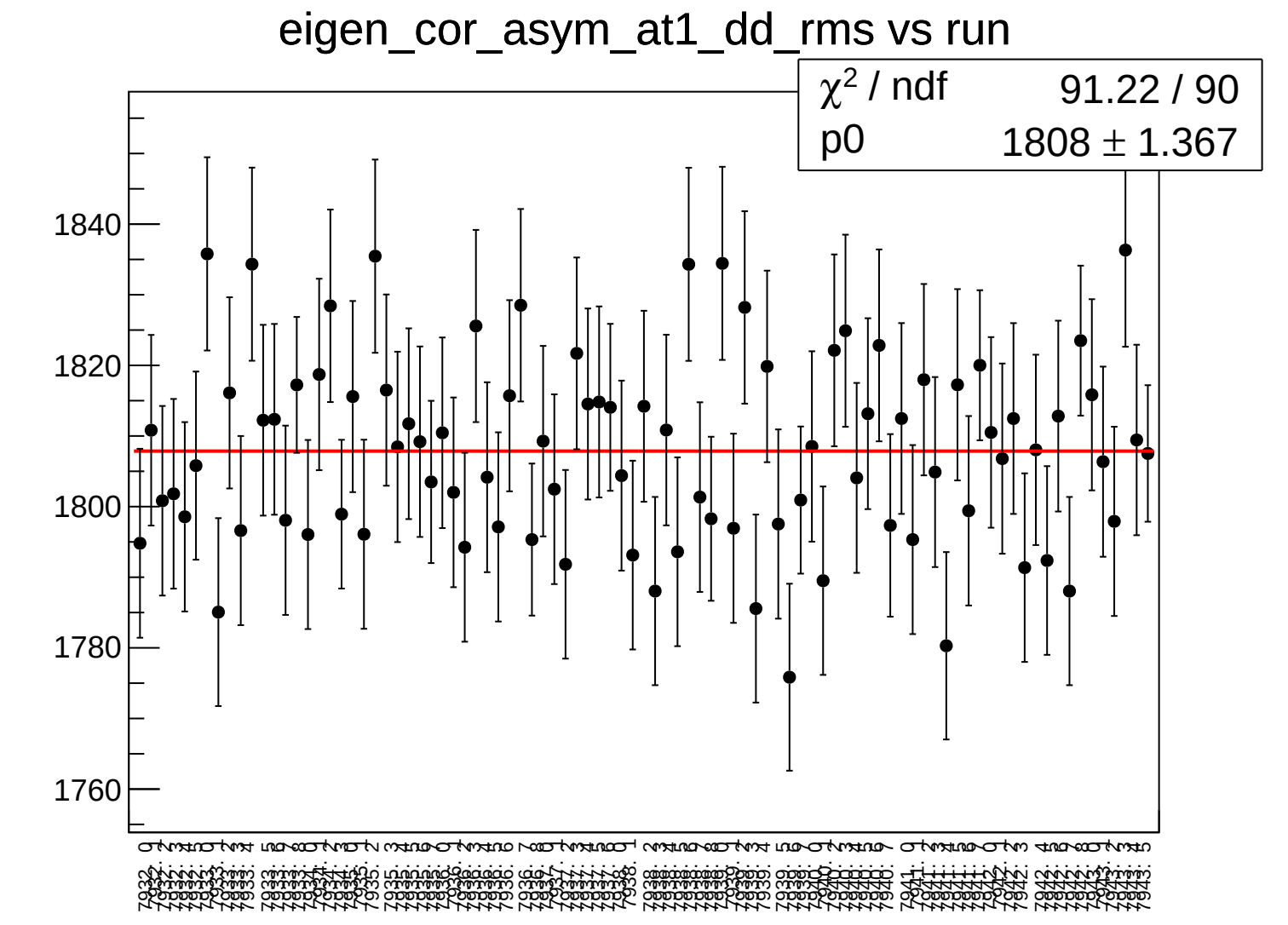

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 97.64 / 90
p0 833 ± 981.9
pull
Entries 91
Mean 159.3
Std Dev 0

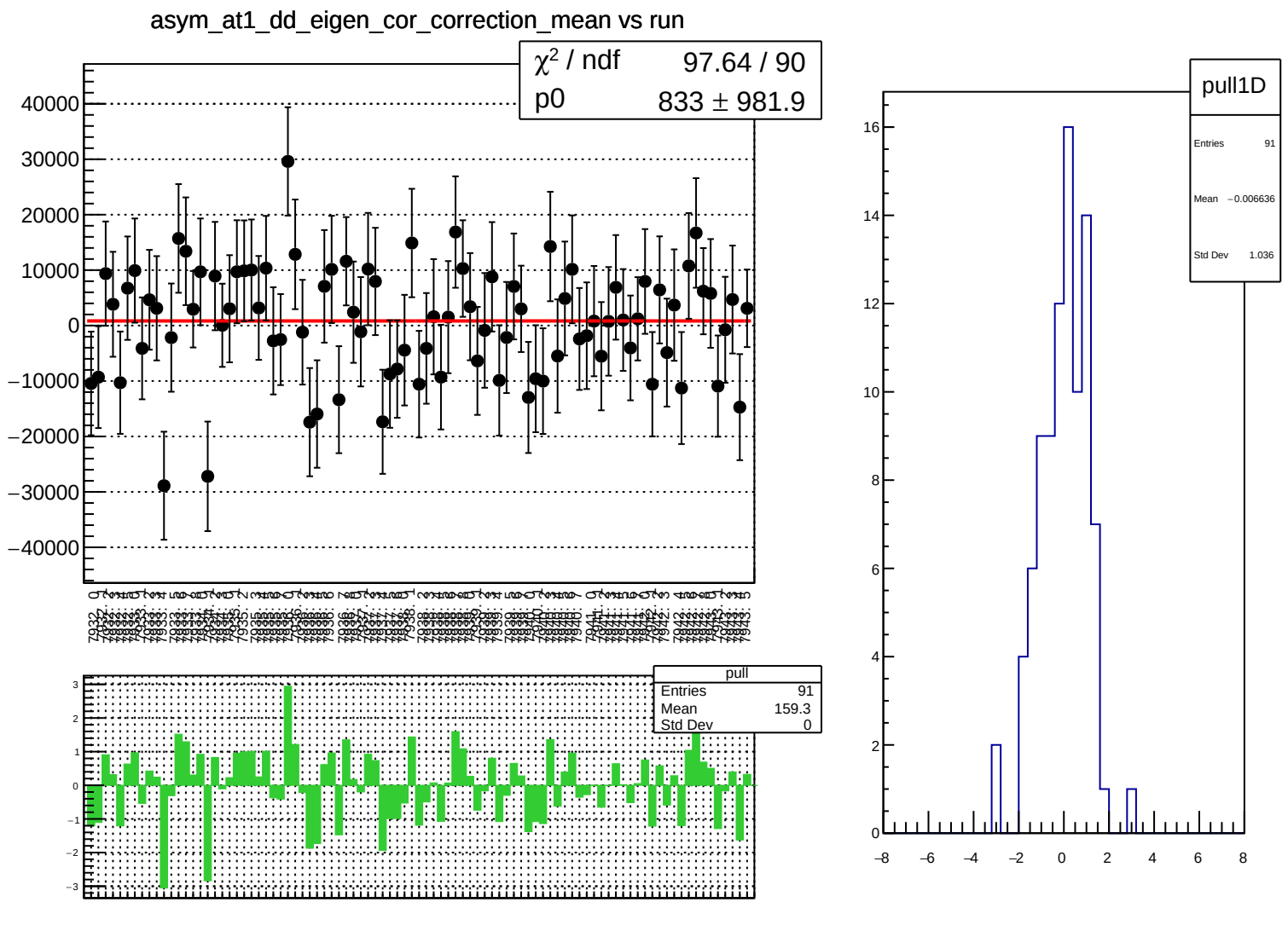

pull1D
Entries 91
Mean −0.006636
Std Dev 1.036

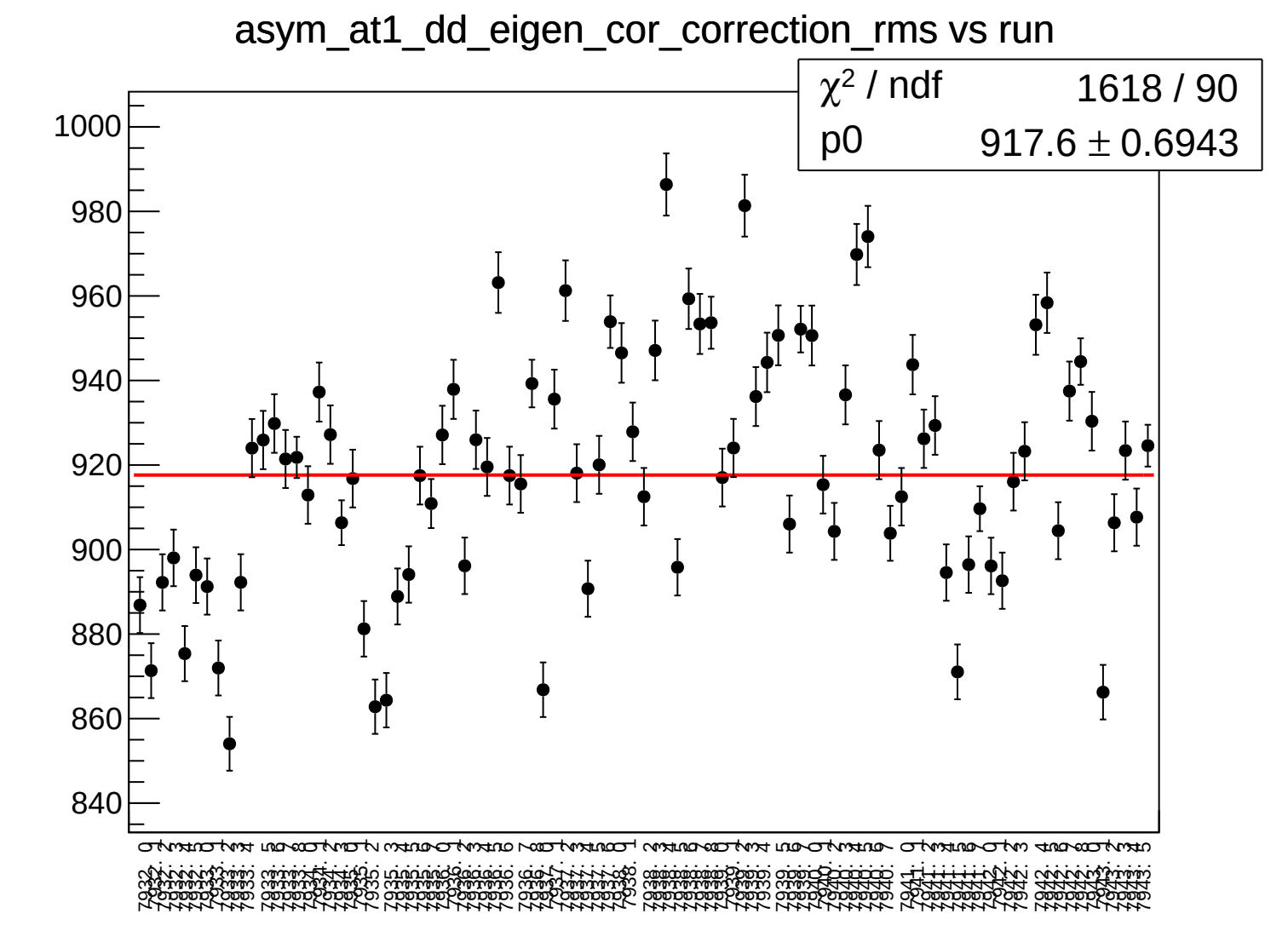

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1618 / 90
p0 917.6 ± 0.6943
1000
980
960
940
920
900
880
860
840

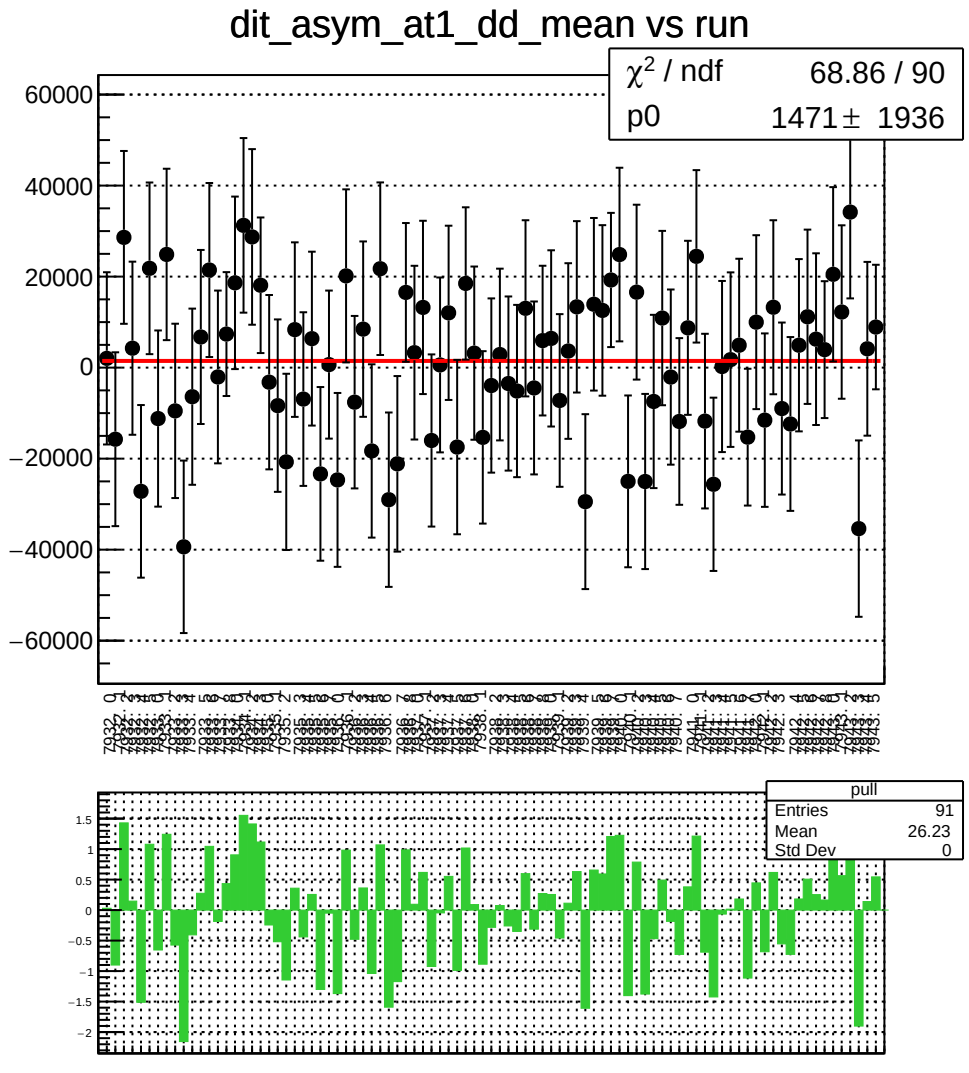

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 67.99 / 90
p0 1519 ± 1934
pull
Entries 91
Mean 25.62
Std Dev 0

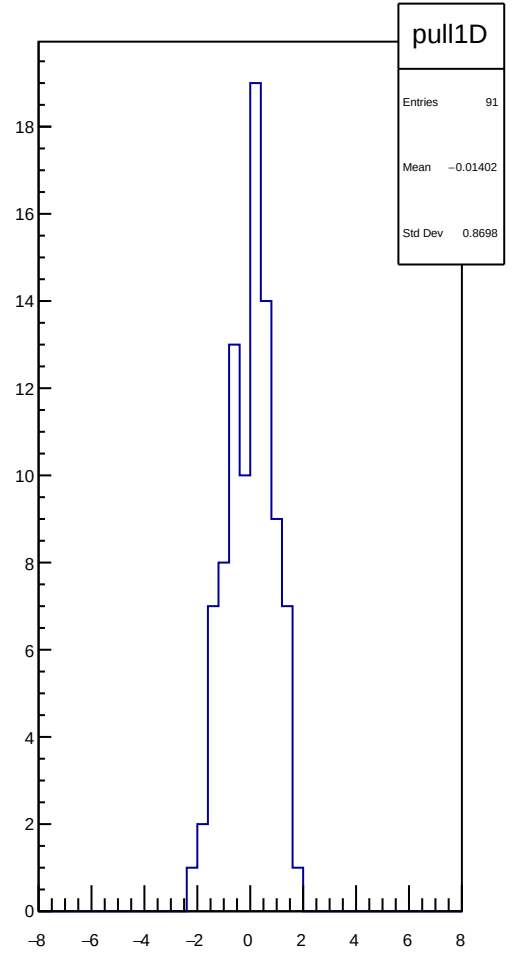

pull1D
Entries 91
Mean −0.01409
Std Dev 0.8643

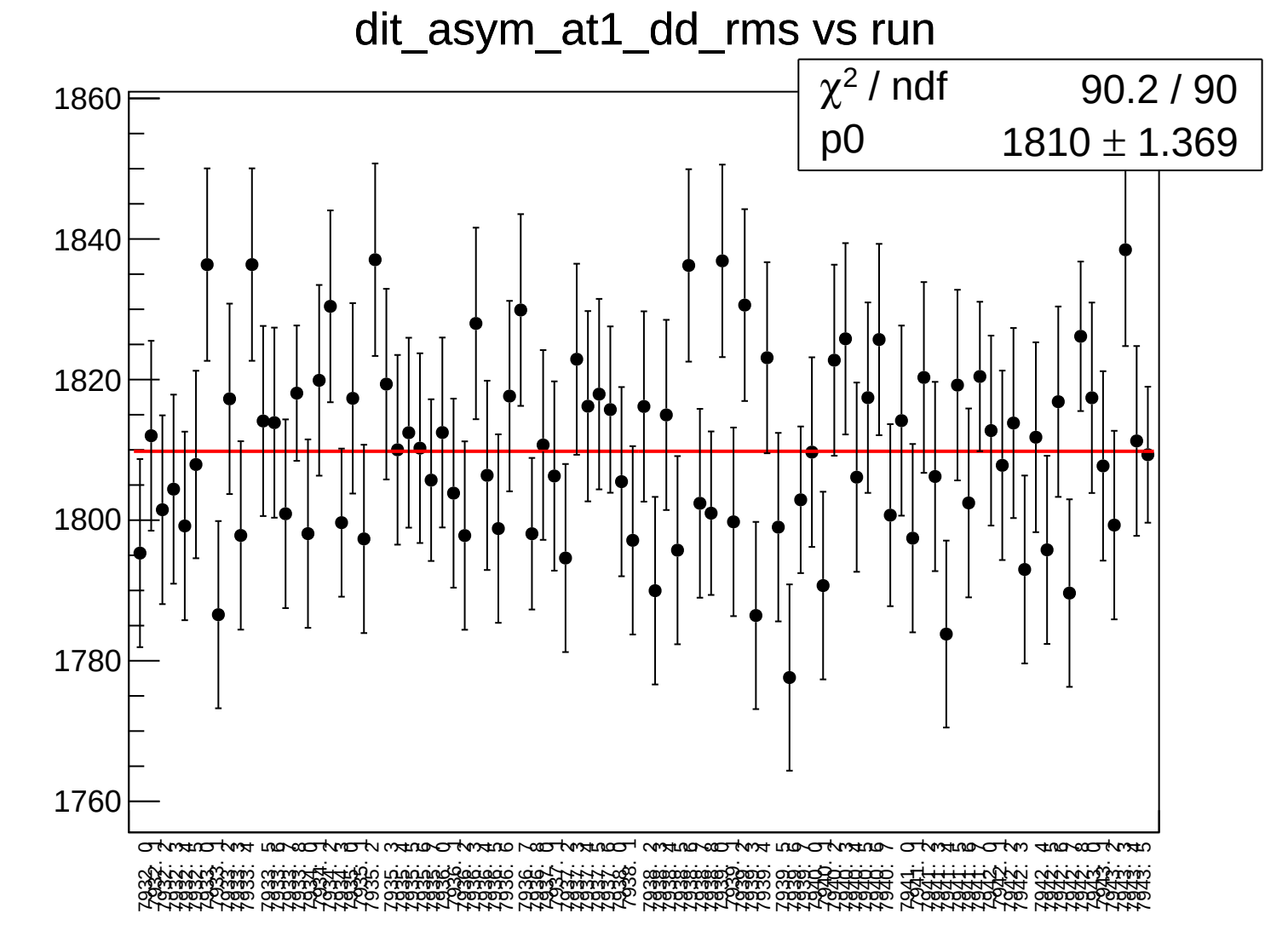

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 91.22 / 90
p0 1808 ± 1.367
1840
1820
1800
1780
1760

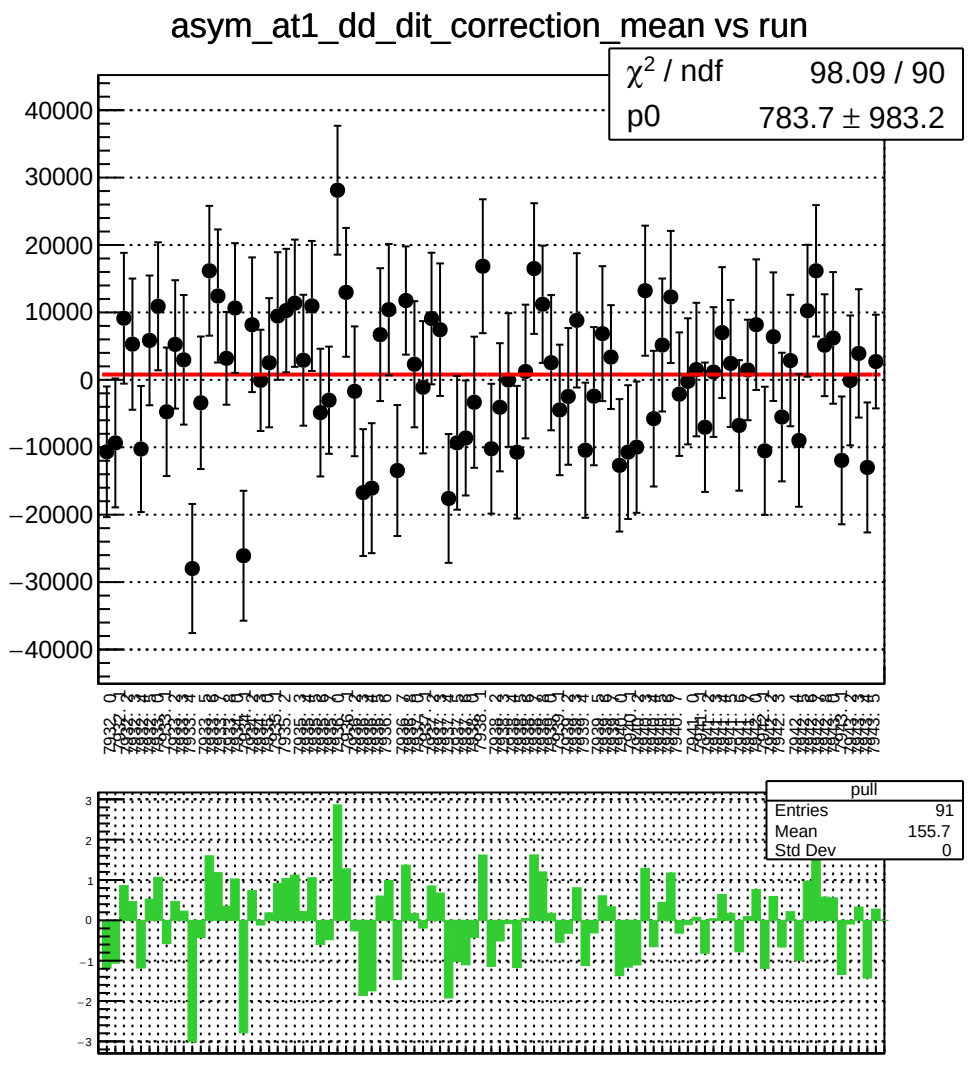

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.64 / 90
p0 833 ± 981.9
pull
Entries 91
Mean 159.3
Std Dev 0
pull1D
Entries 91
Mean −0.006636
Std Dev 1.036

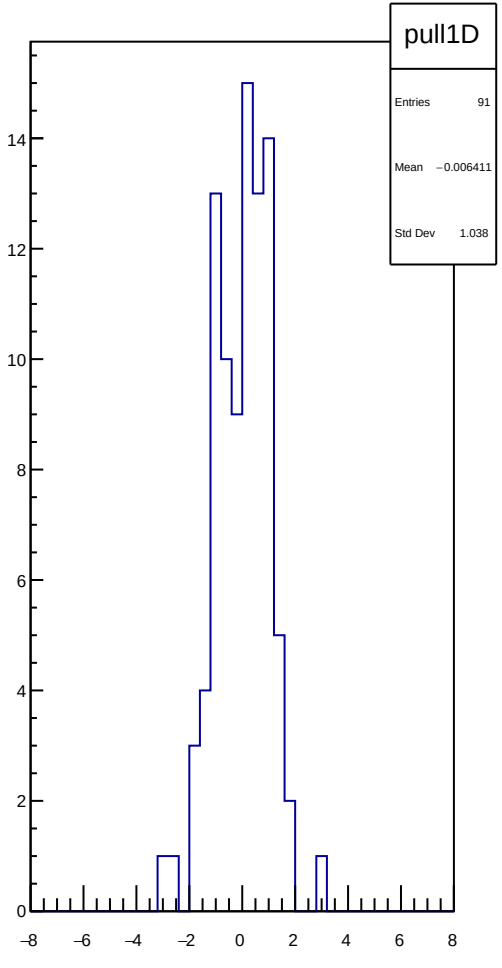

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1618 / 90
p0 917.6 ± 0.6943
1000
980
960
940
920
900
880
860
840

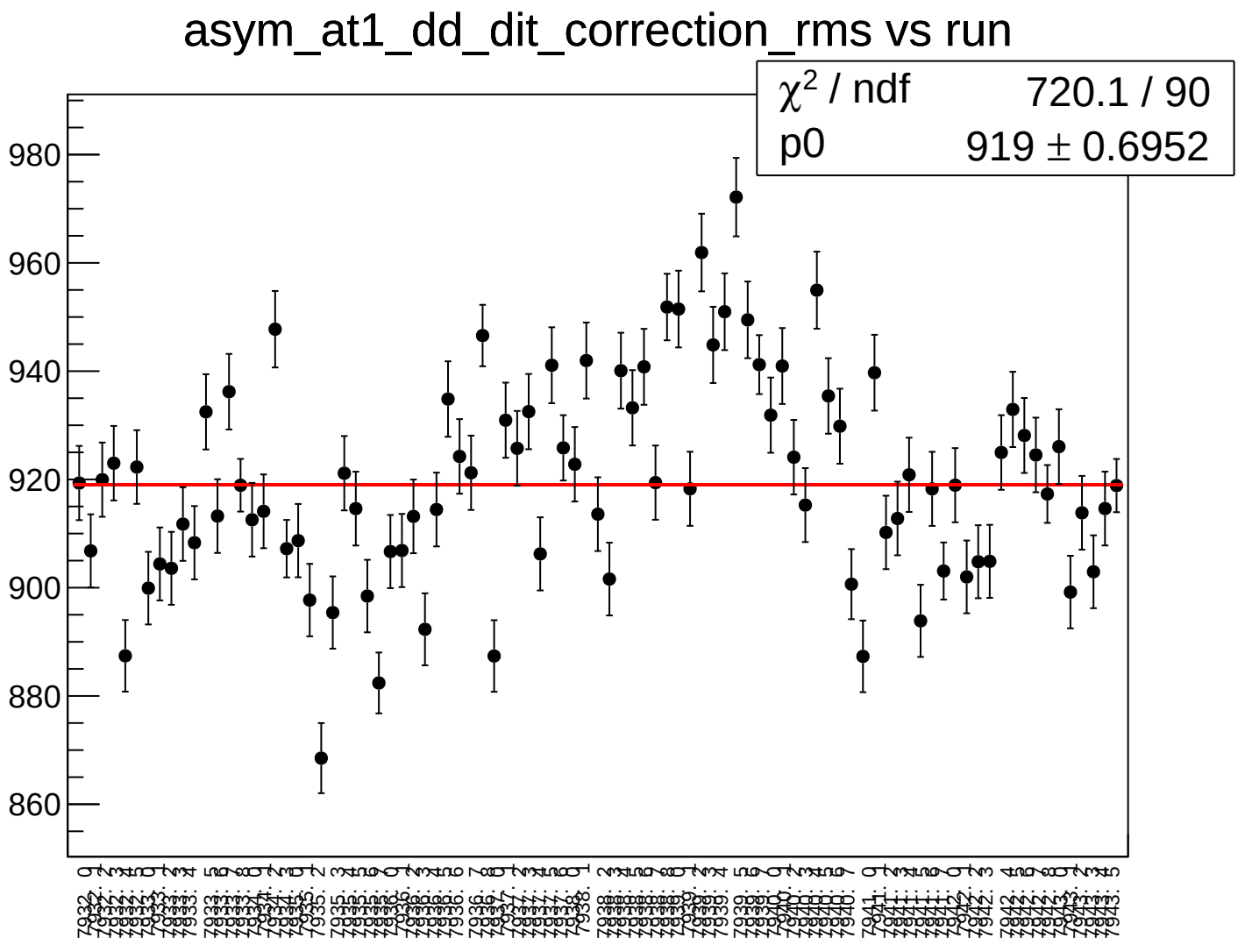

dit_asym_at1_dd_mean vs run
χ² / ndf 68.86 / 90
p0 1471 ± 1936
pull
Entries 91
Mean 26.23
Std Dev 0

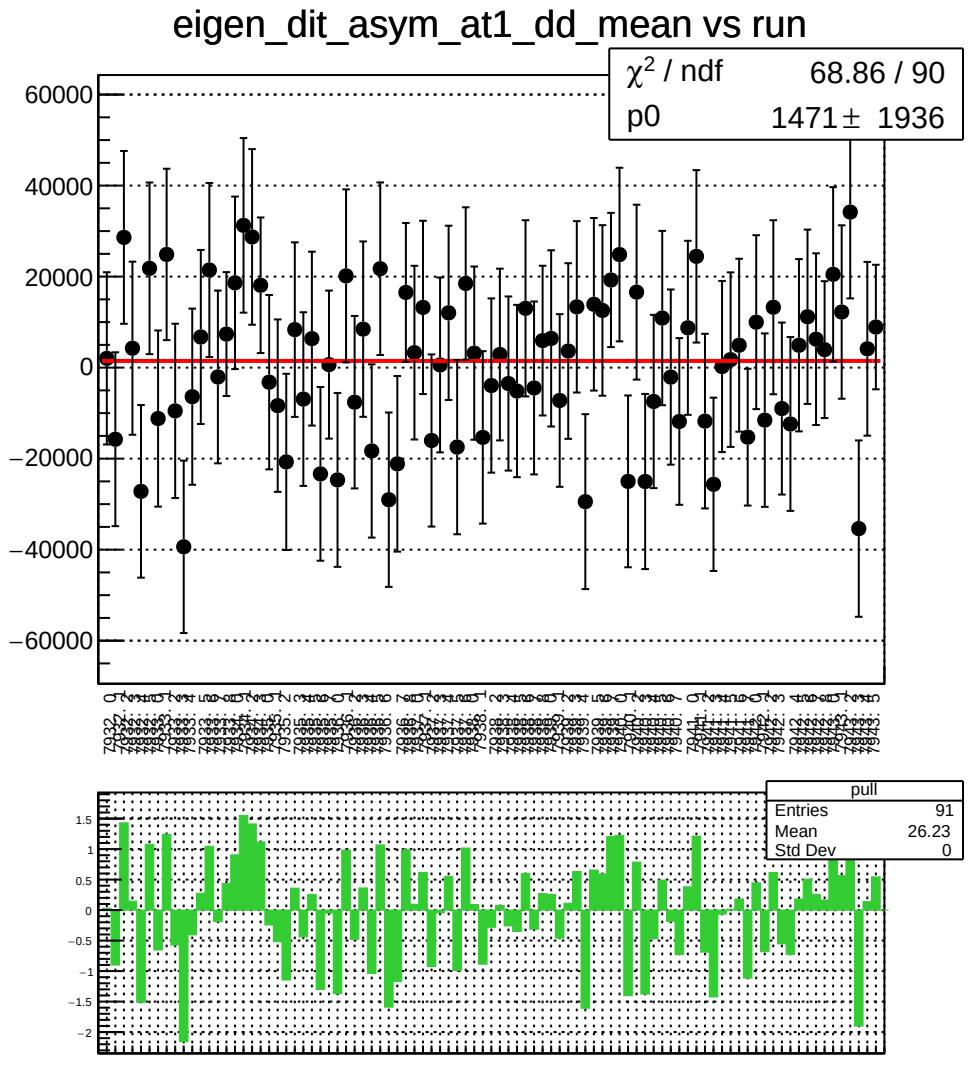

pull1D
Entries 91
Mean −0.01402
Std Dev 0.8698

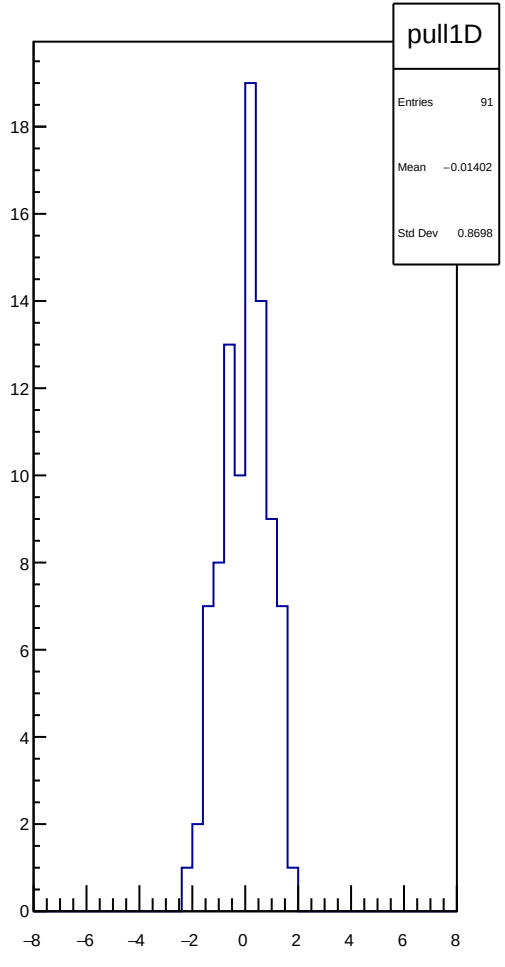

dit_asym_at1_dd_rms vs run
χ² / ndf 90.2 / 90
p0 1810 ± 1.369
1860
1840
1820
1800
1780
1760

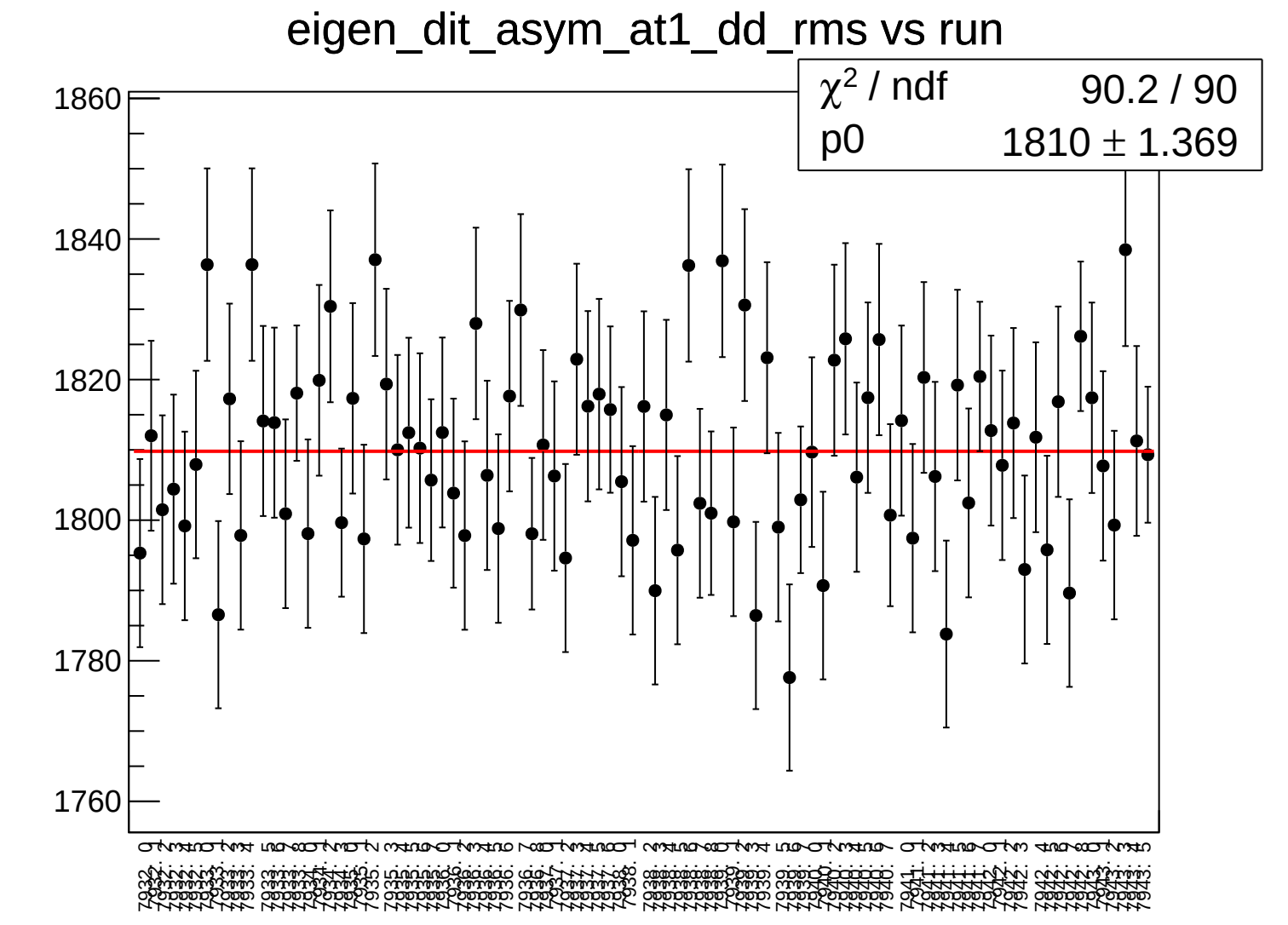

asym_at1_dd_dit_correction_mean vs run
χ^2 / ndf 98.09 / 90
p0 783.7 ± 983.2
pull
Entries 91
Mean 155.7
Std Dev 0

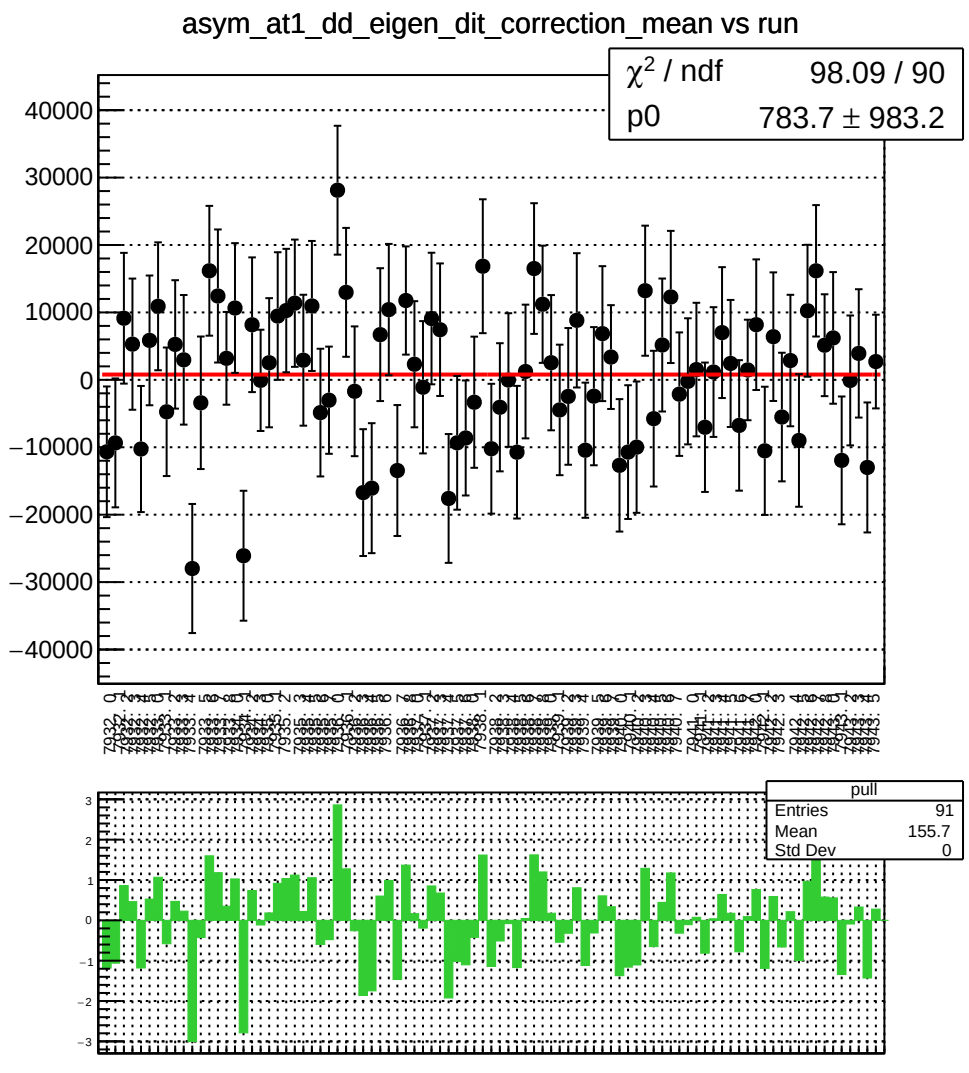

pull1D
Entries 91
Mean −0.006411
Std Dev 1.038

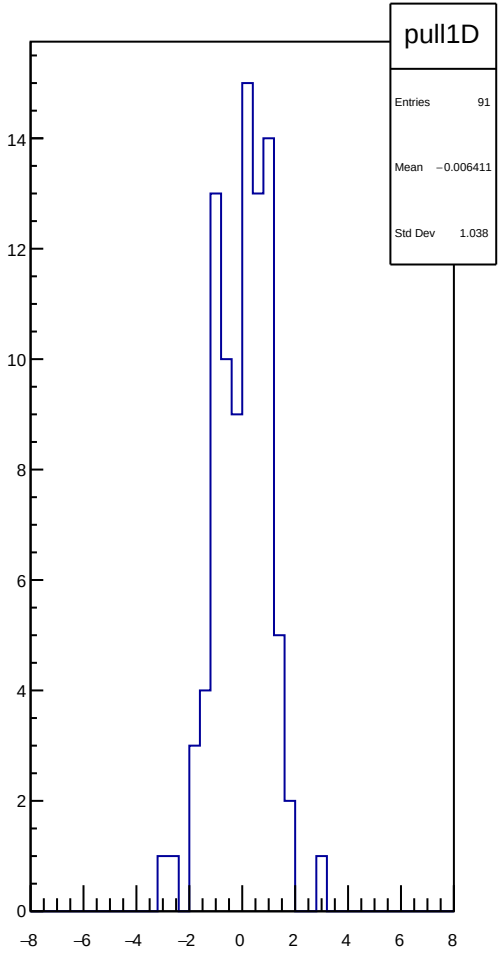

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 720.1 / 90
p0 919 ± 0.6952
980
960
940
920
900
880
860

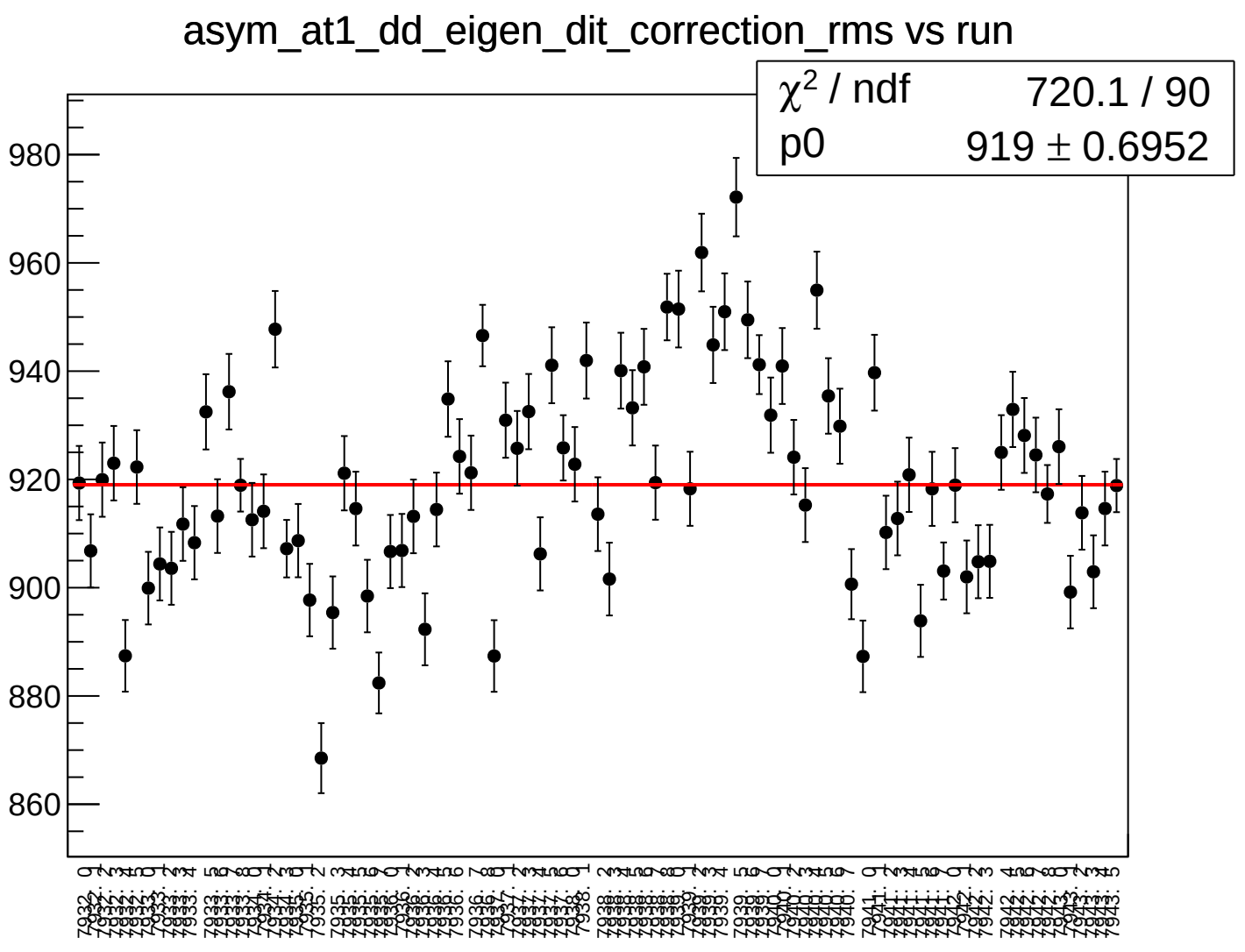

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 68.86 / 90
p0 1471 ± 1936
pull
Entries 91
Mean 26.23
Std Dev 0

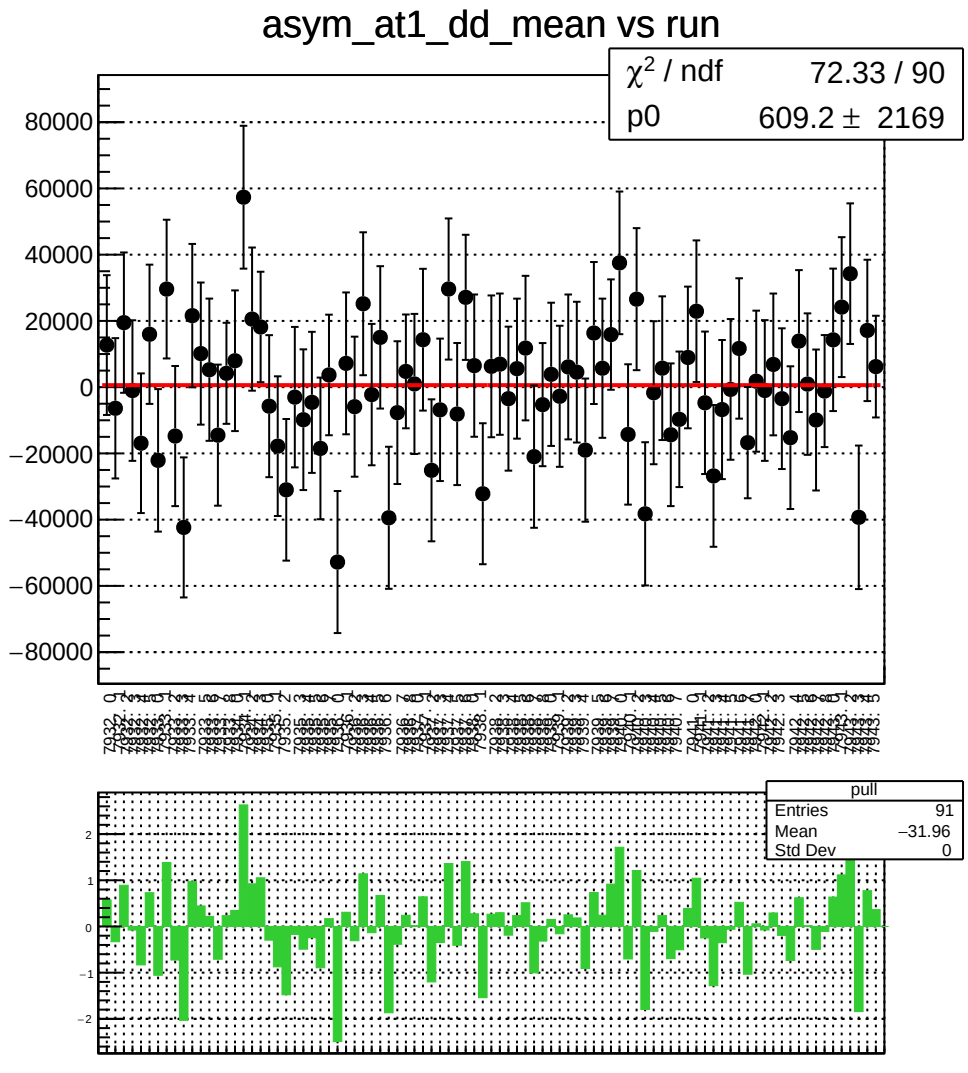

pull1D
Entries 91
Mean −0.01402
Std Dev 0.8698

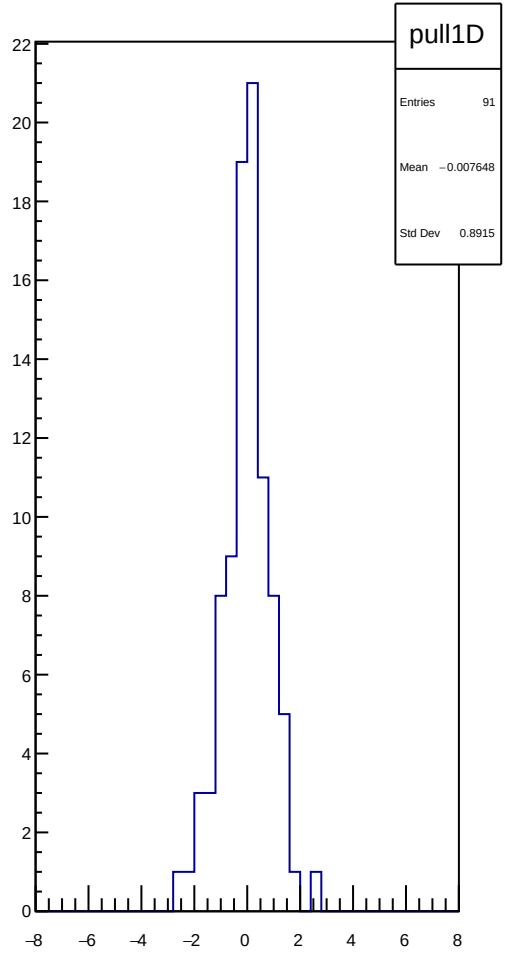

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 90.2 / 90
p0 1810 ± 1.369
1860
1840
1820
1800
1780
1760

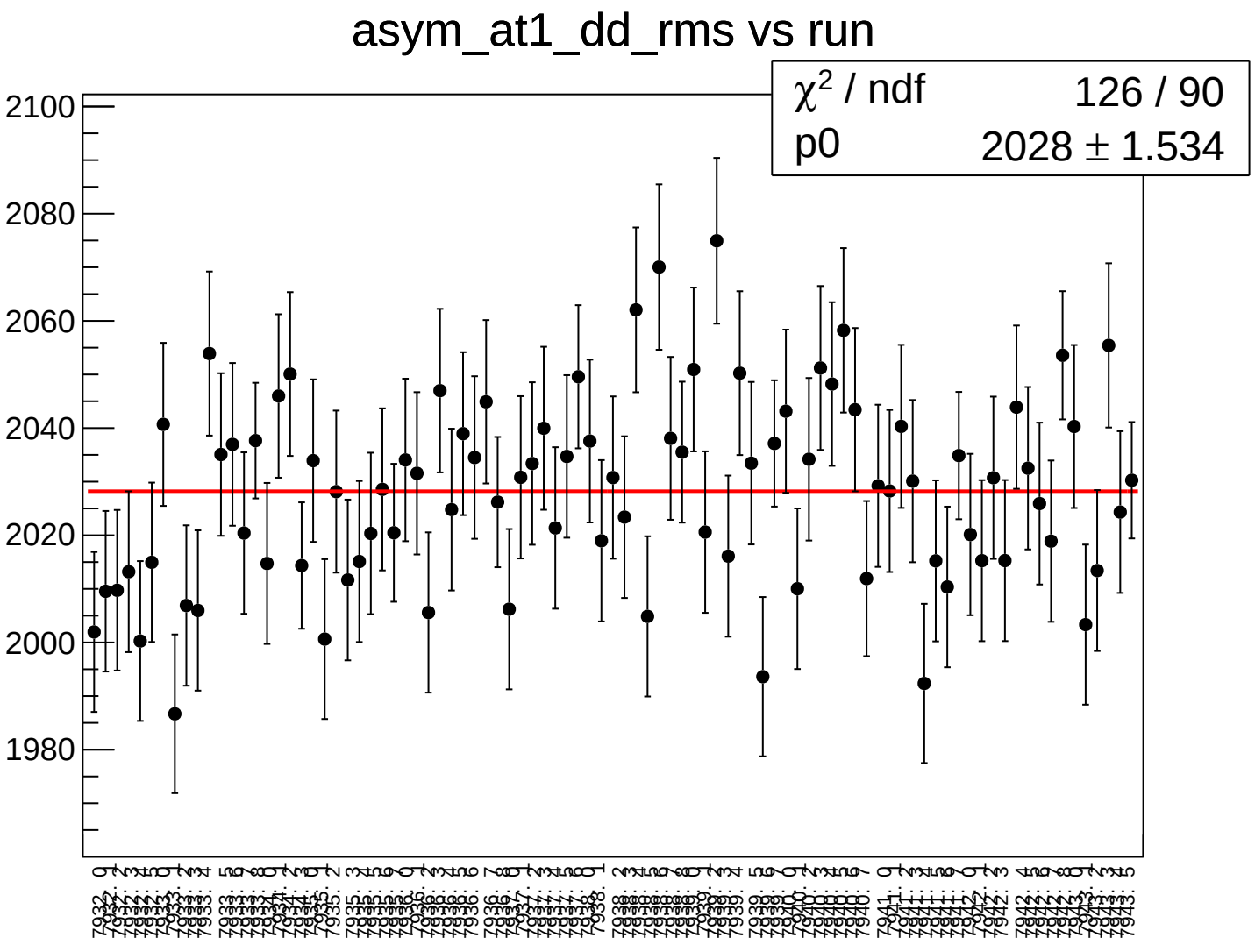

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.09 / 90
p0 783.7 ± 983.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 155.7
Std Dev 0
3
2
1
0
−1
−2
−3

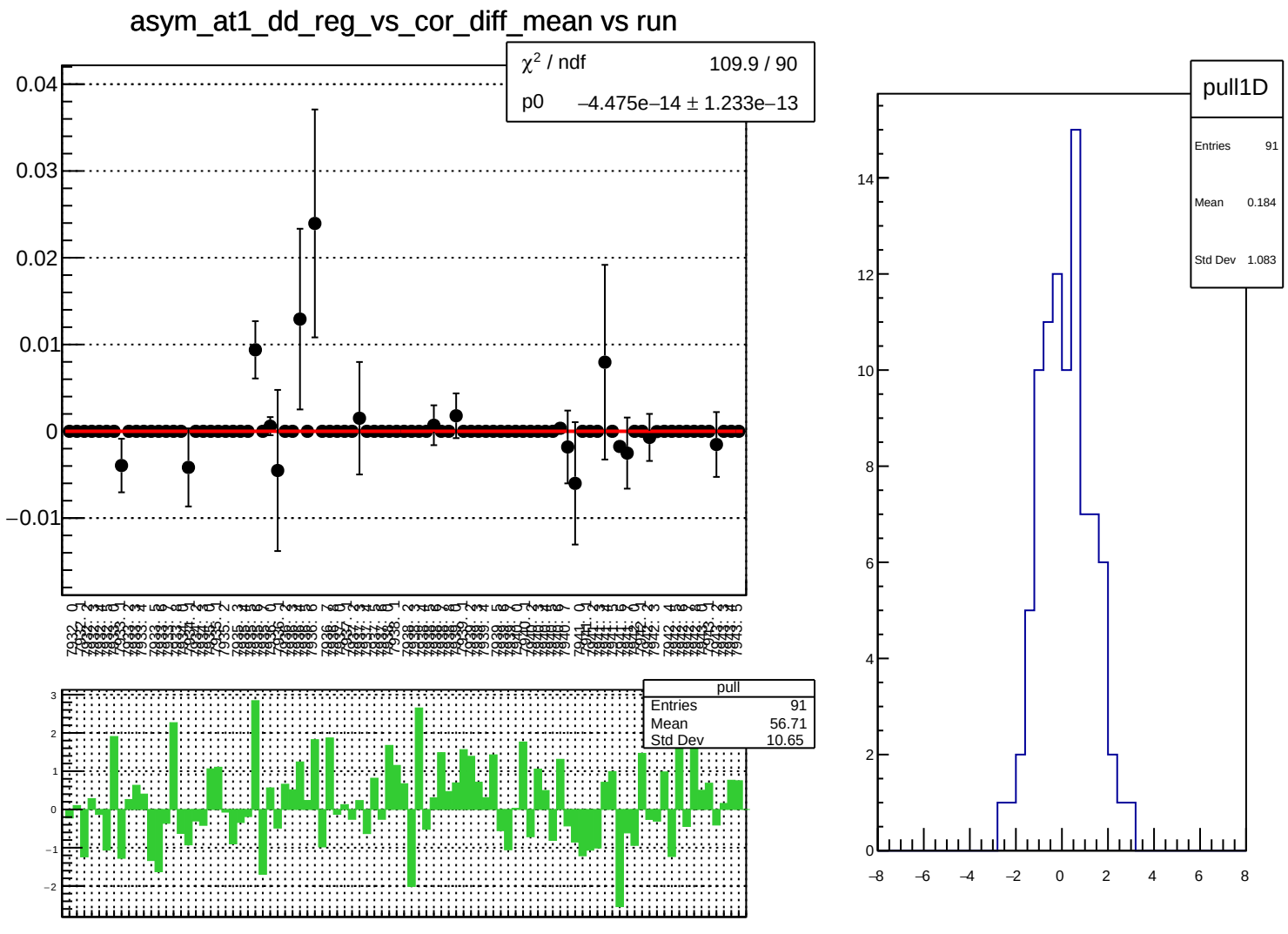

pull1D
Entries 91
Mean −0.006411
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

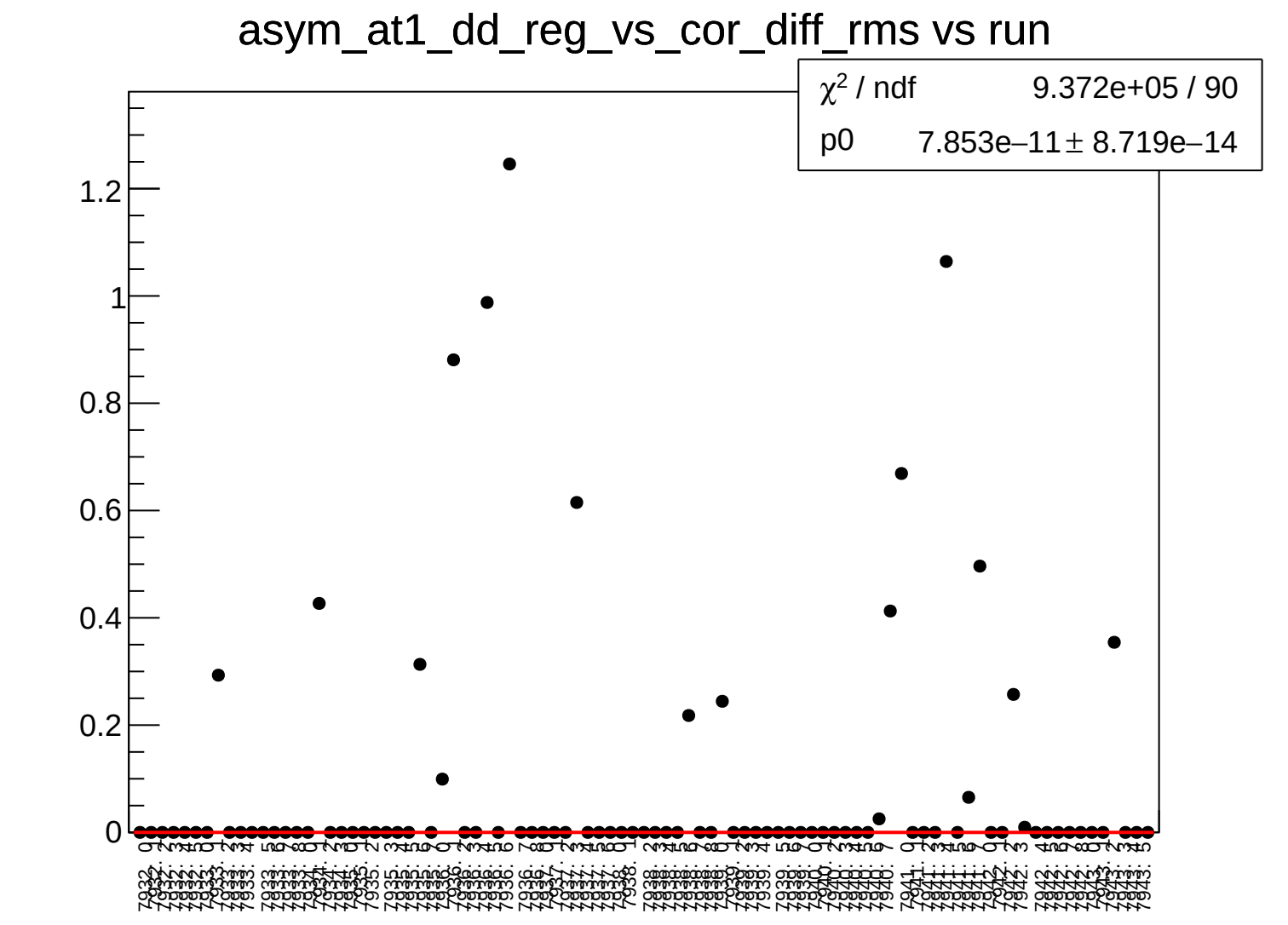

asym_at1_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 720.1 / 90
p0 919 ± 0.6952
980
960
940
920
900
880
860

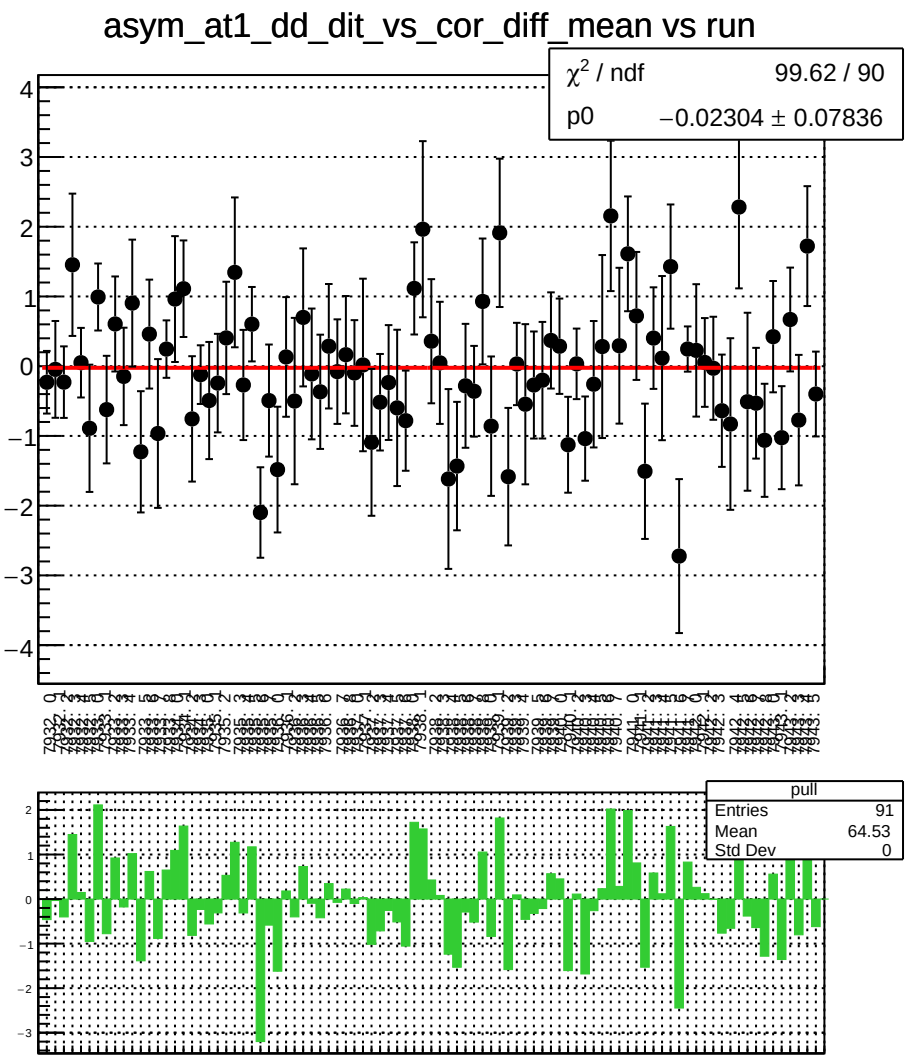

asym_at1_dd_mean vs run
χ² / ndf 72.33 / 90
p0 609.2 ± 2169
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −31.96
Std Dev 0
2
1
0
−1
−2

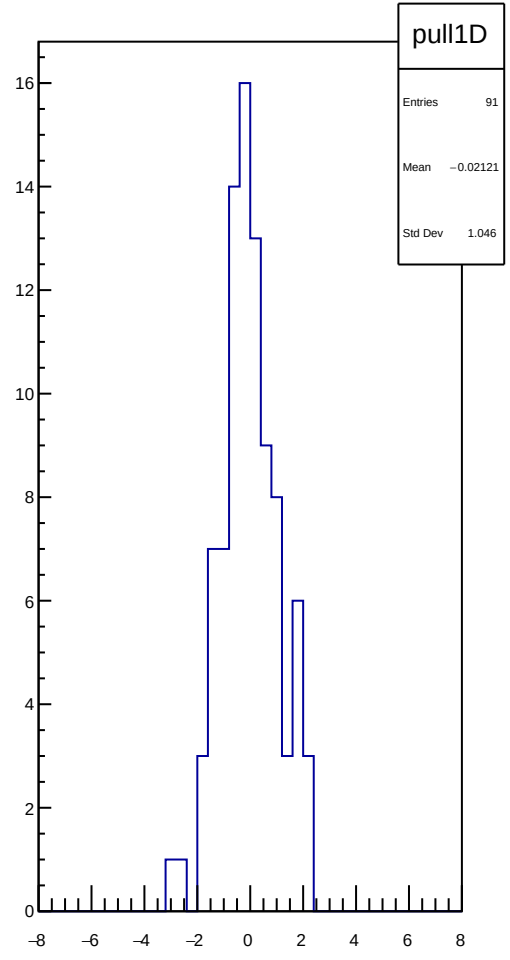

pull1D
Entries 91
Mean −0.007648
Std Dev 0.8915
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

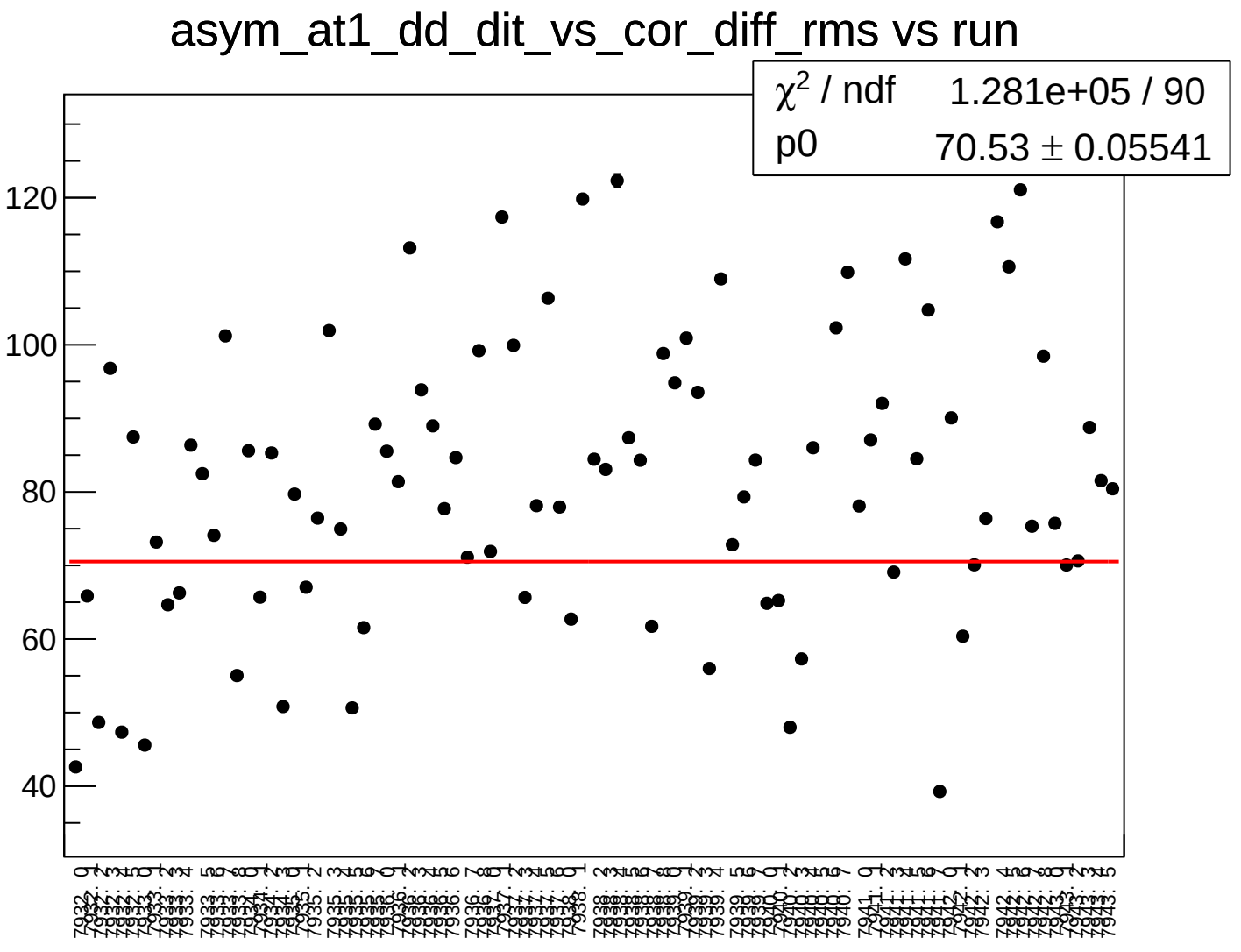

asym_at1_dd_rms vs run
χ² / ndf 126 / 90
p0 2028 ± 1.534
2100
2080
2060
2040
2020
2000
1980

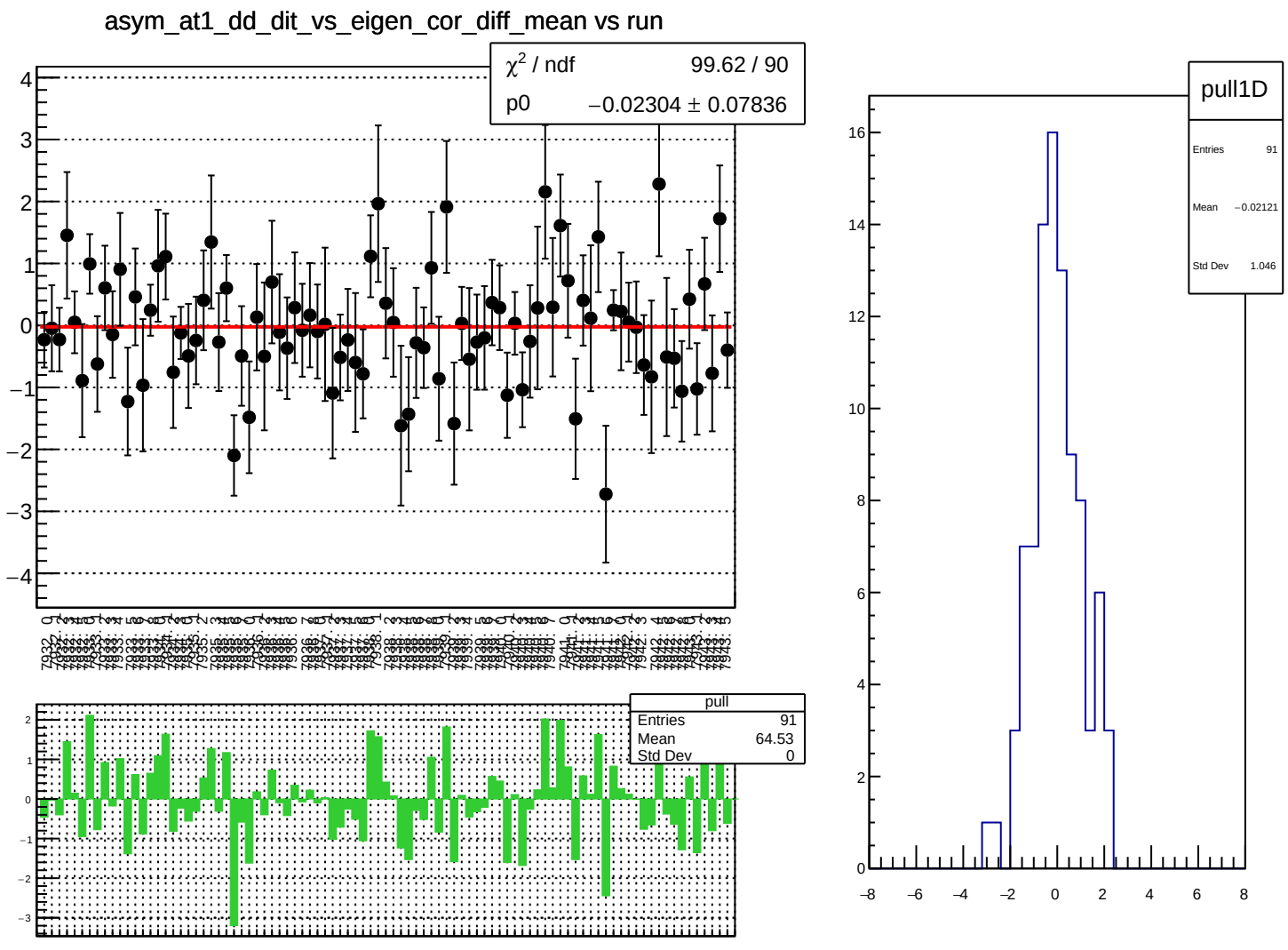

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 90
p0 −4.475e−14 ± 1.233e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 91
Mean 56.71
Std Dev 10.65
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.184
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

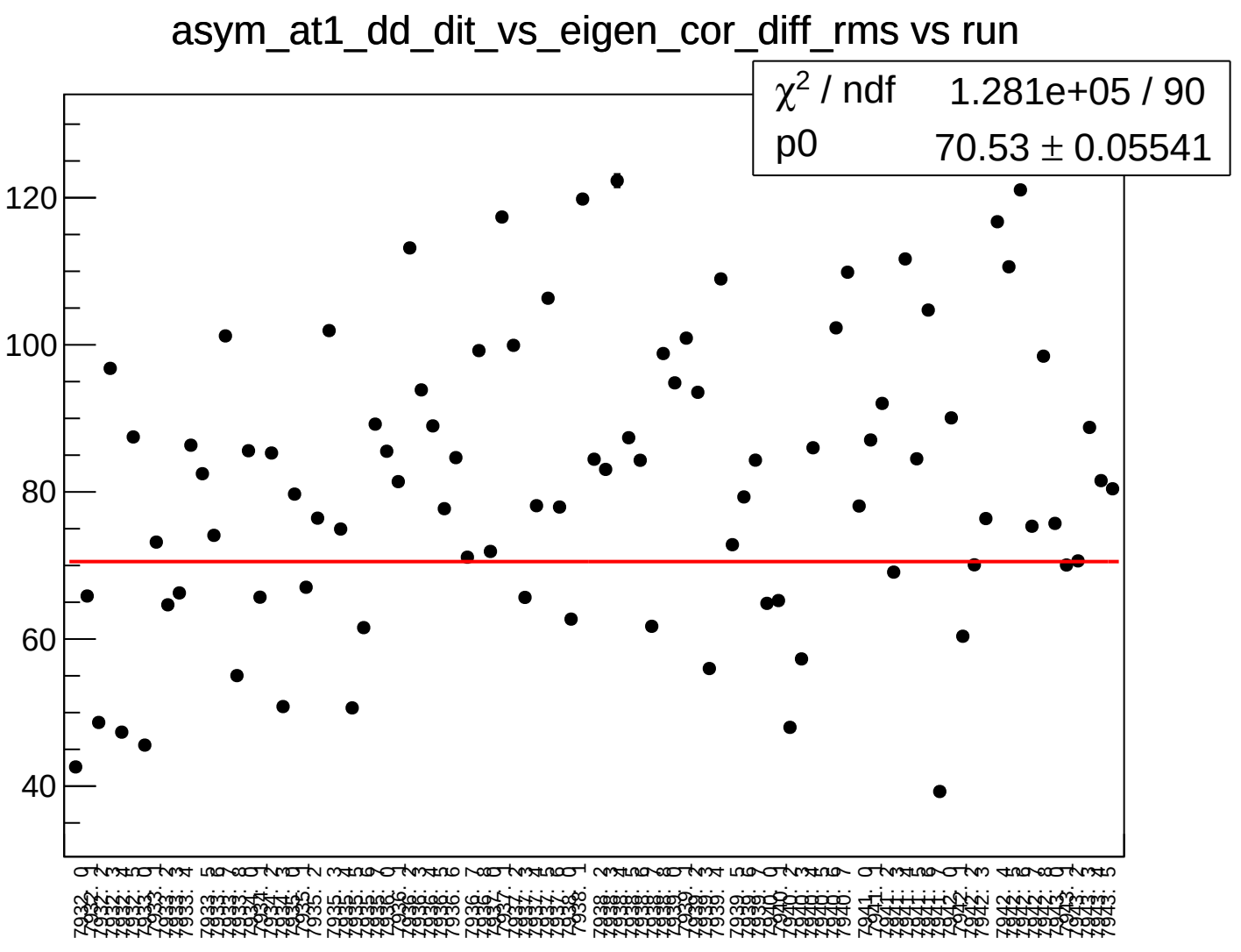

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.372e+05 / 90
p0 7.853e−11 ± 8.719e−14
1.2
1
0.8
0.6
0.4
0.2
0

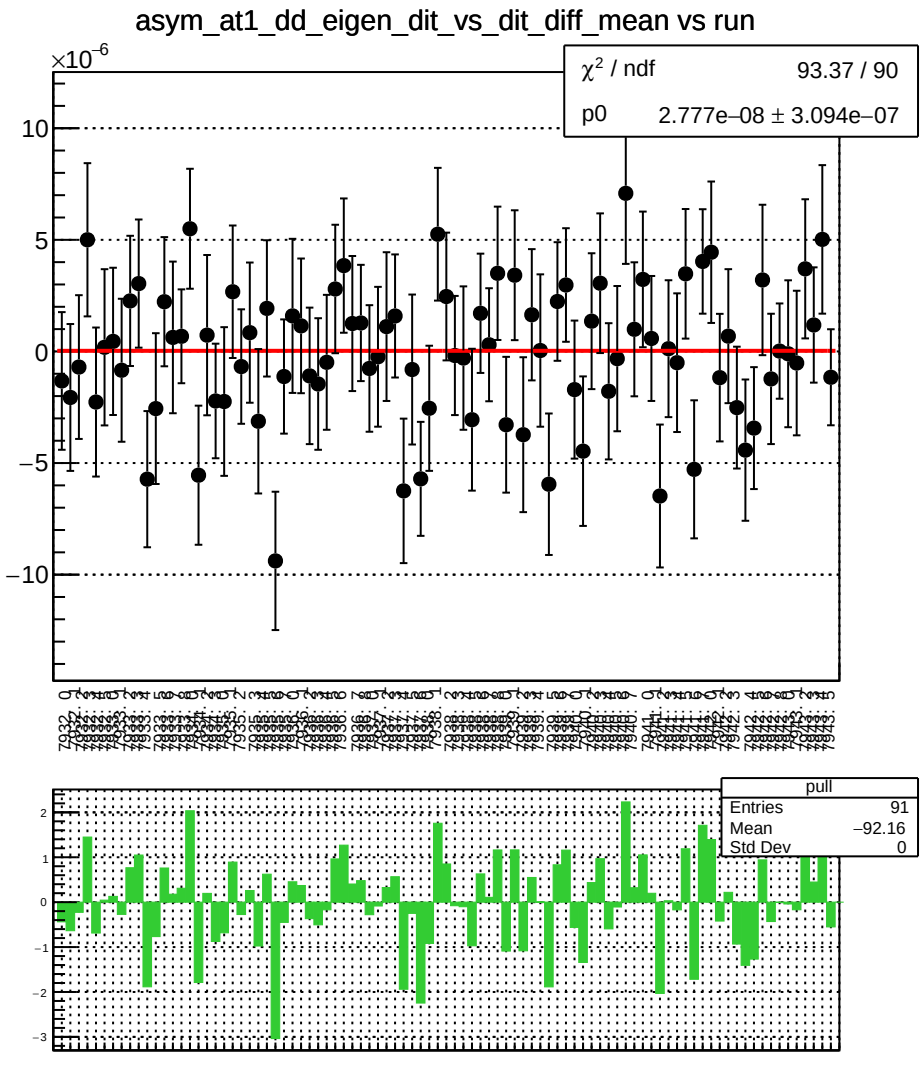

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.02304 ± 0.07836
pull
Entries 91
Mean 64.53
Std Dev 0

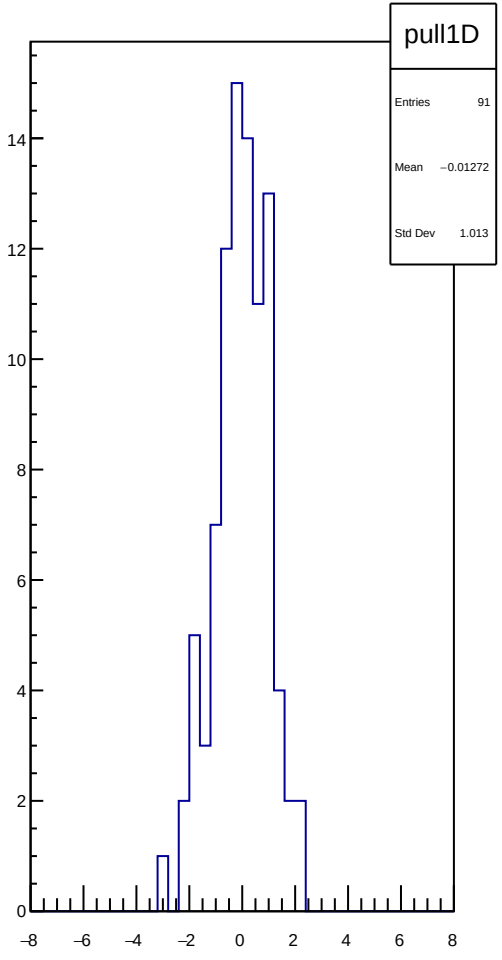

pull1D
Entries 91
Mean −0.02121
Std Dev 1.046

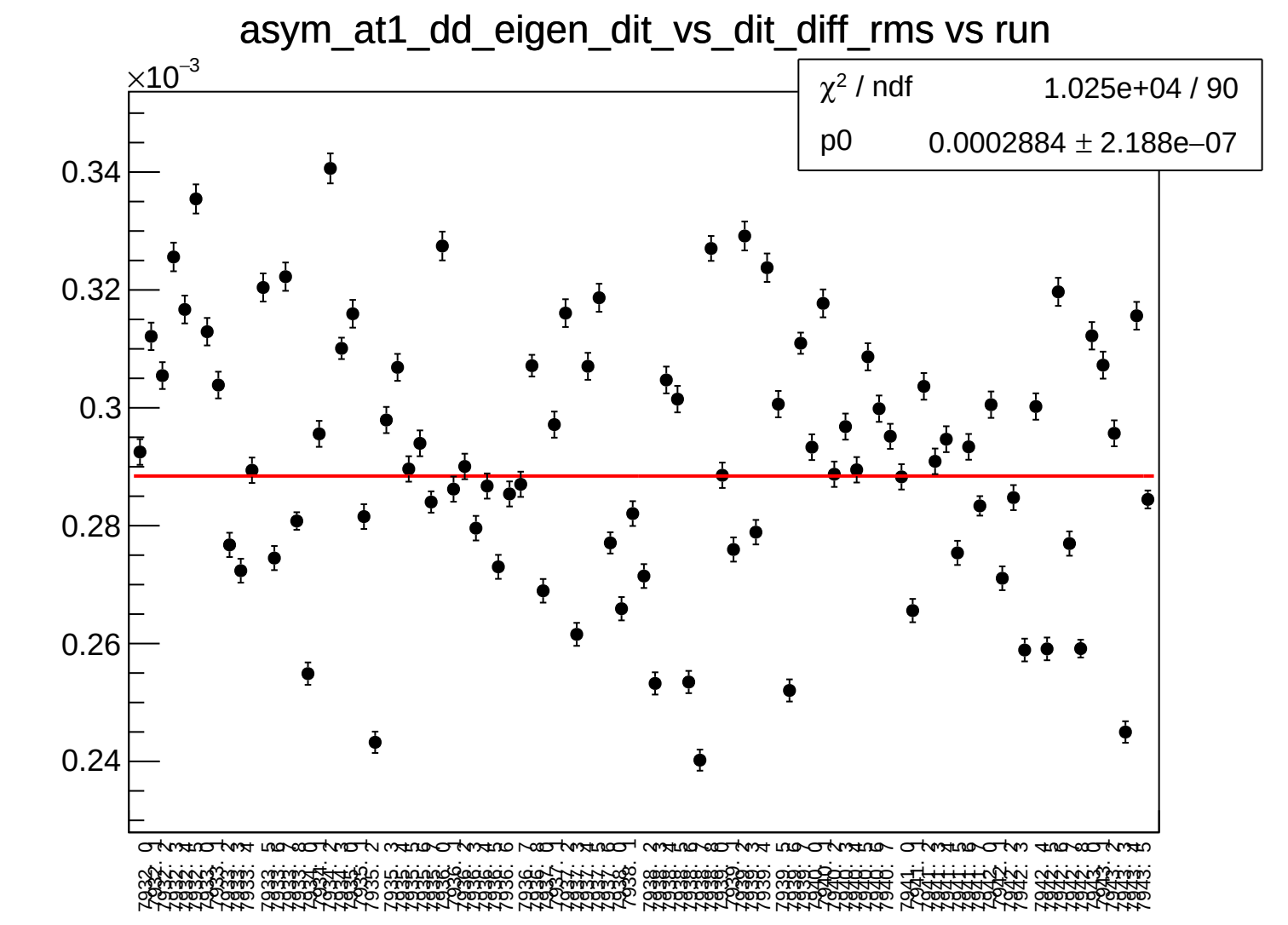

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.281e+05 / 90
p0 70.53 ± 0.05541
120
100
80
60
40

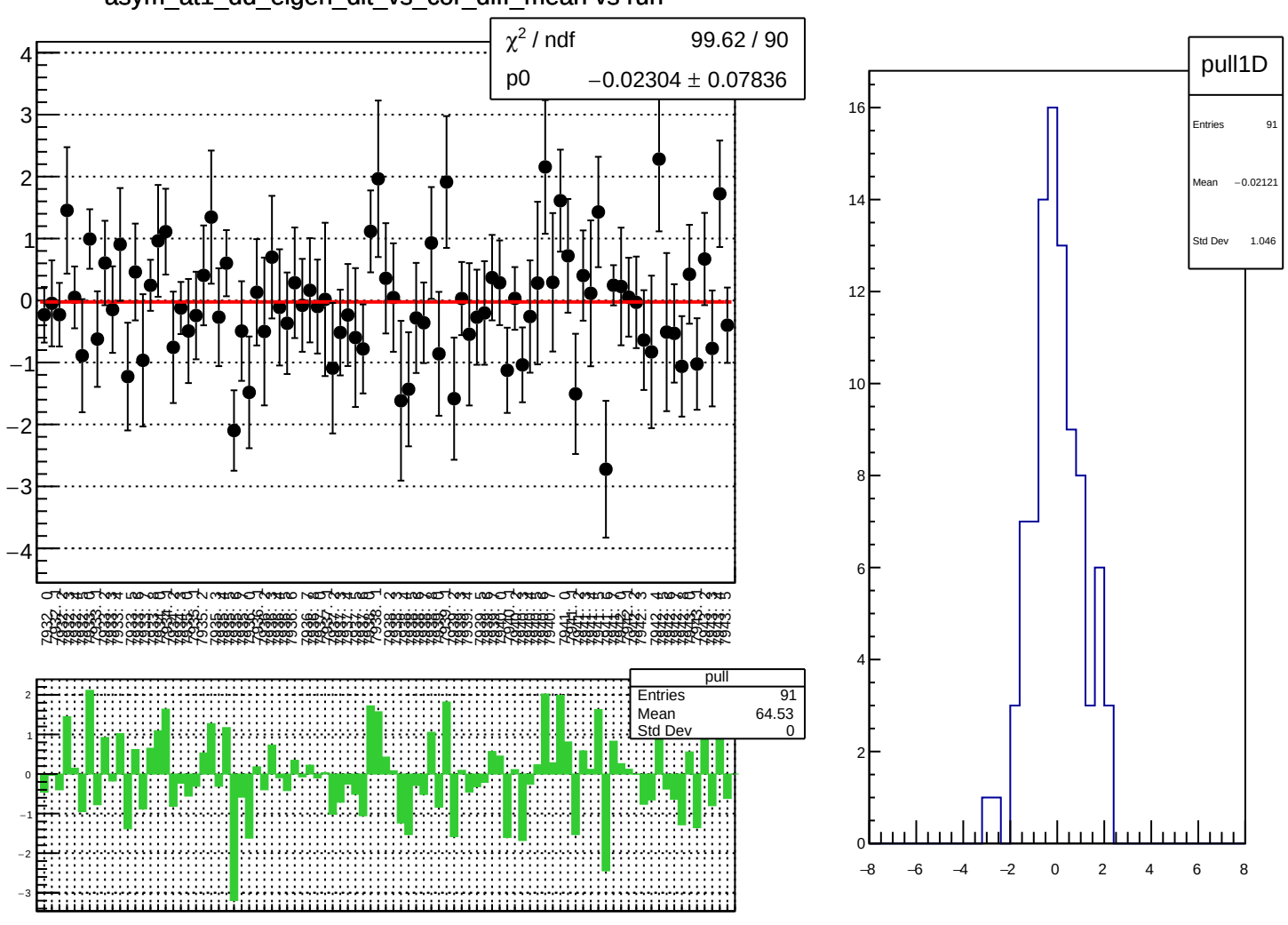

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.02304 ± 0.07836
pull
Entries 91
Mean 64.53
Std Dev 0
pull1D
Entries 91
Mean −0.02121
Std Dev 1.046

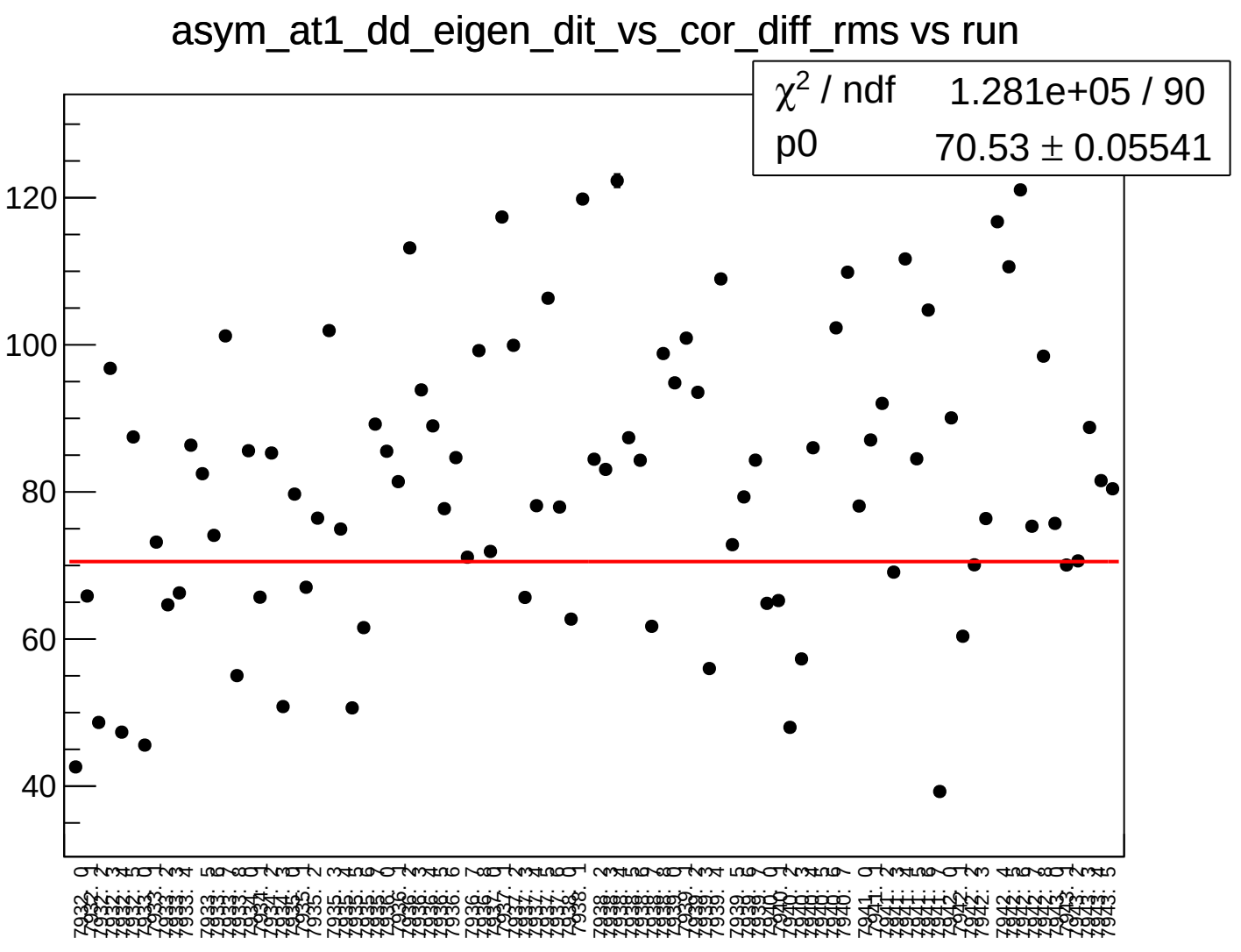

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.281e+05 / 90
p0 70.53 ± 0.05541
120
100
80
60
40

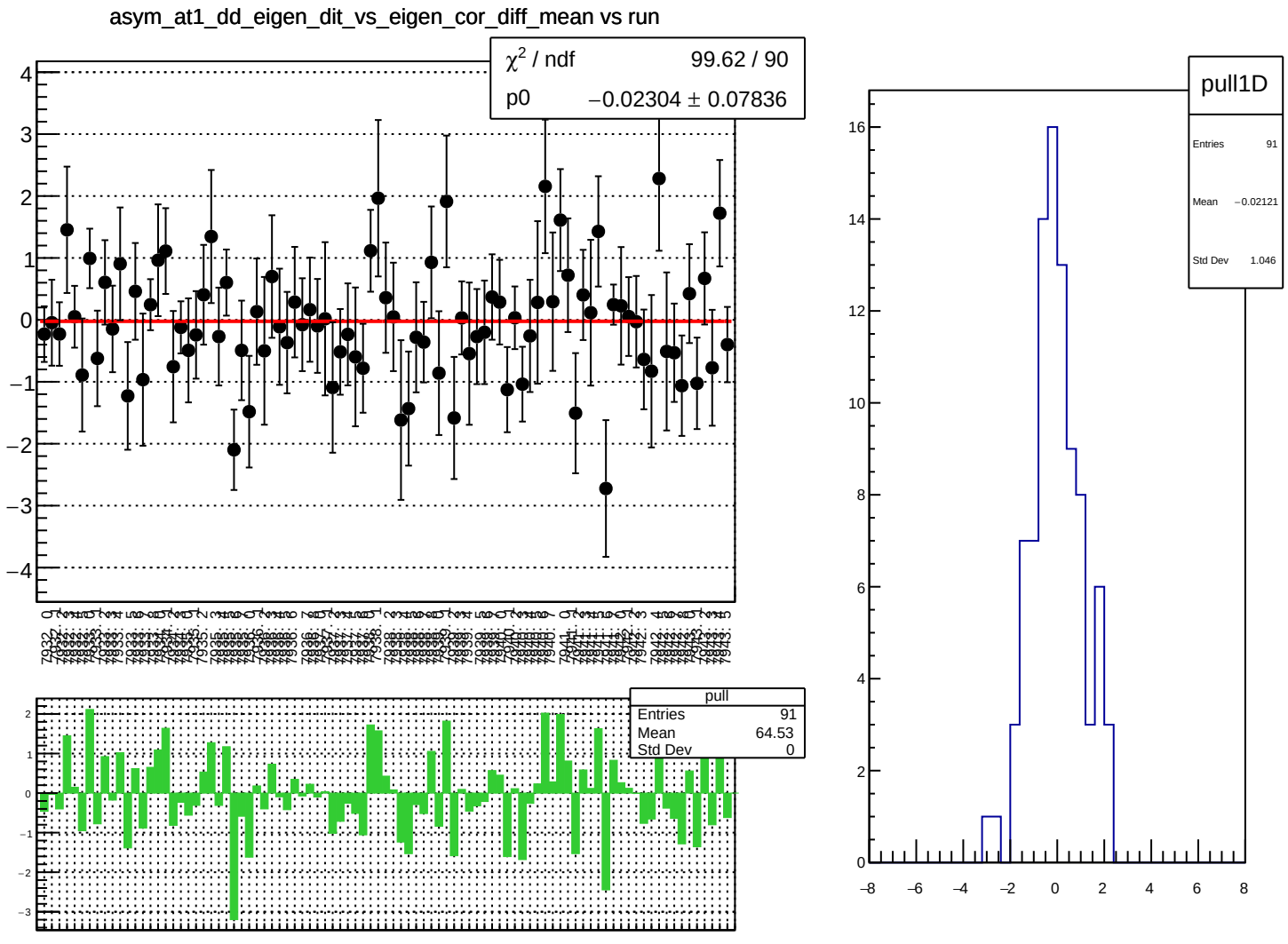

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 93.37 / 90
p0 2.777e−08 ± 3.094e−07
pull
Entries 91
Mean −92.16
Std Dev 0

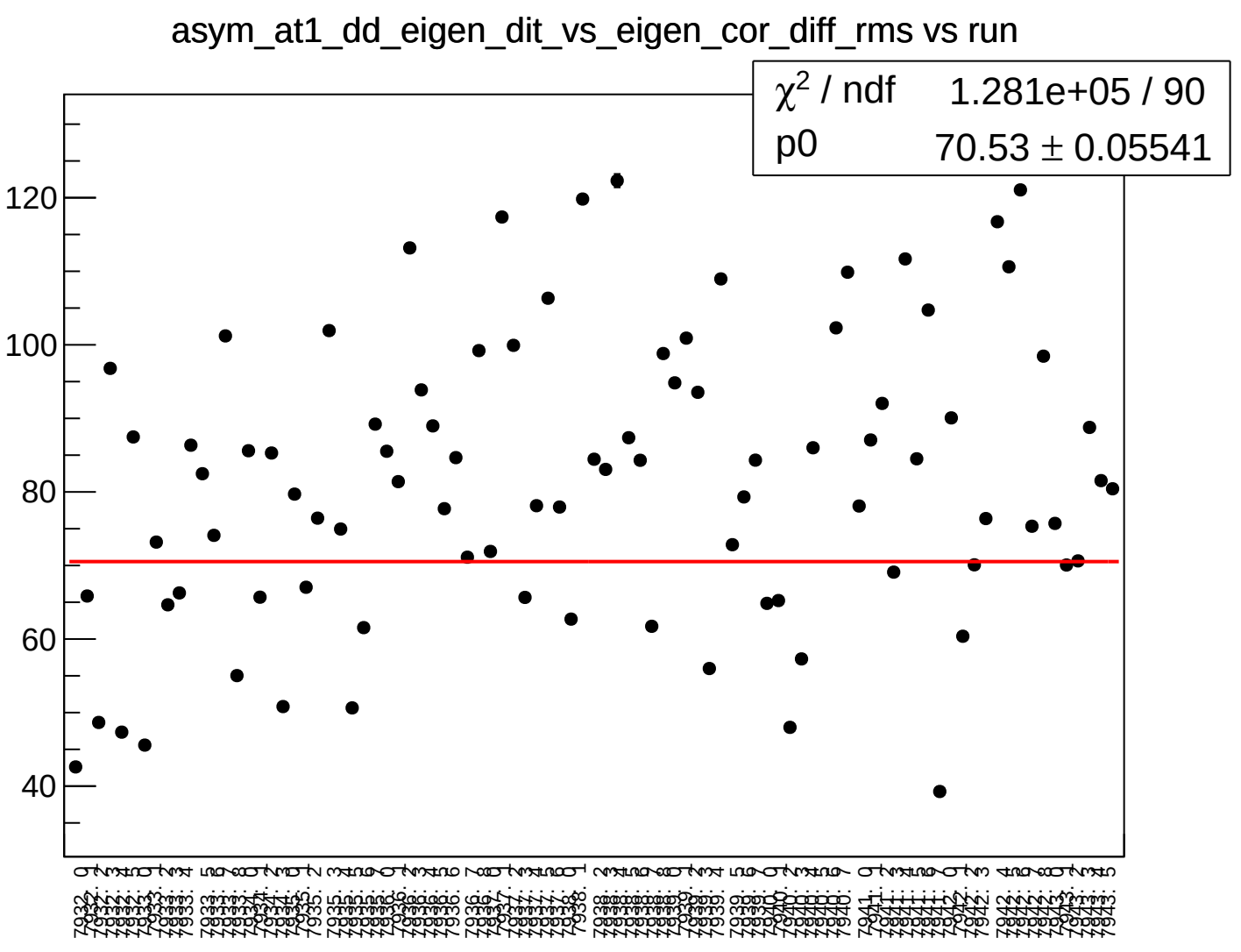

pull1D
Entries 91
Mean −0.01272
Std Dev 1.013

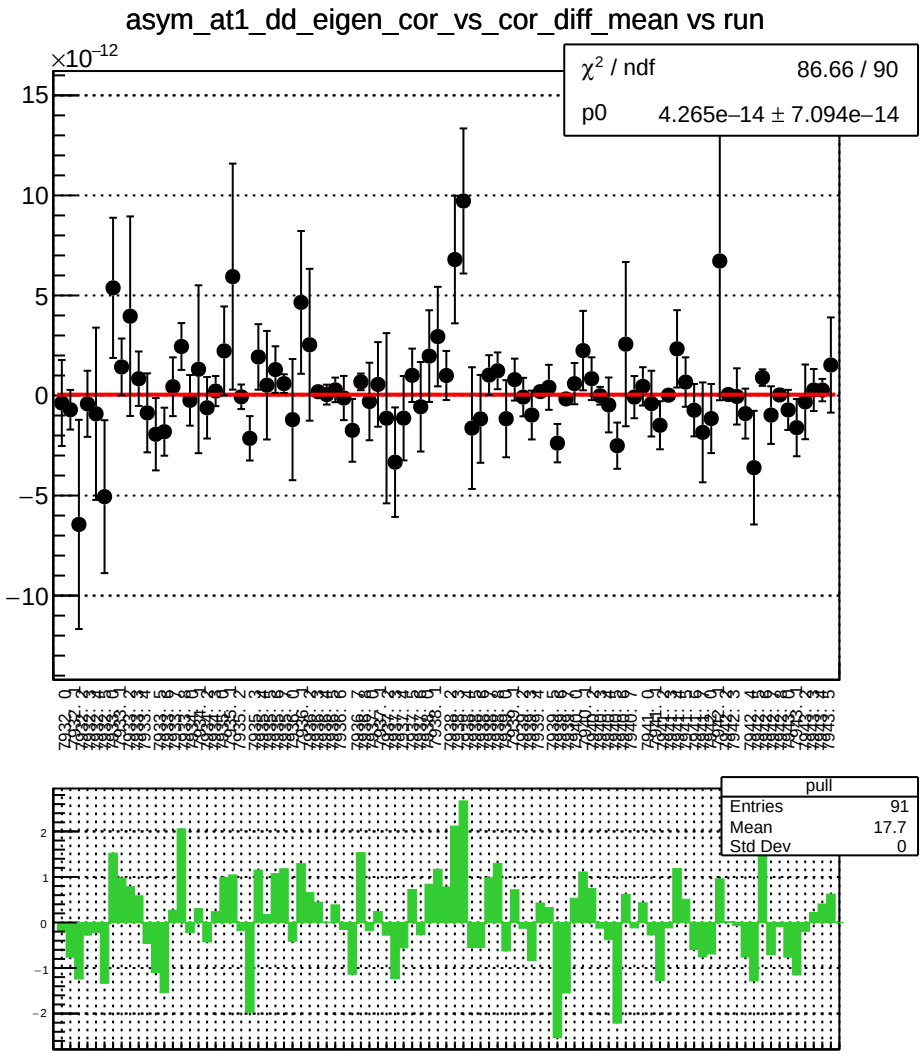

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.025e+04 / 90
p0 0.0002884 ± 2.188e−07
0.34
0.32
0.3
0.28
0.26
0.24

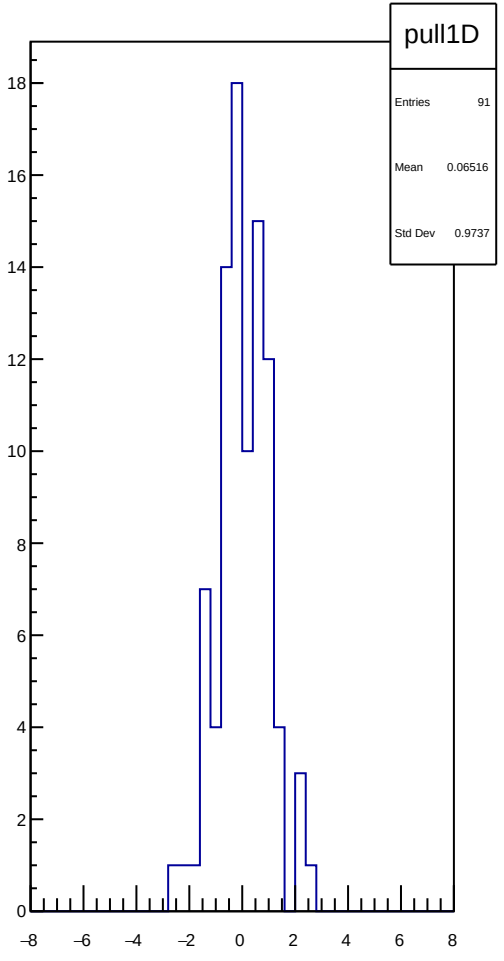

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.02304 ± 0.07836
pull
Entries 91
Mean 64.53
Std Dev 0
pull1D
Entries 91
Mean −0.02121
Std Dev 1.046

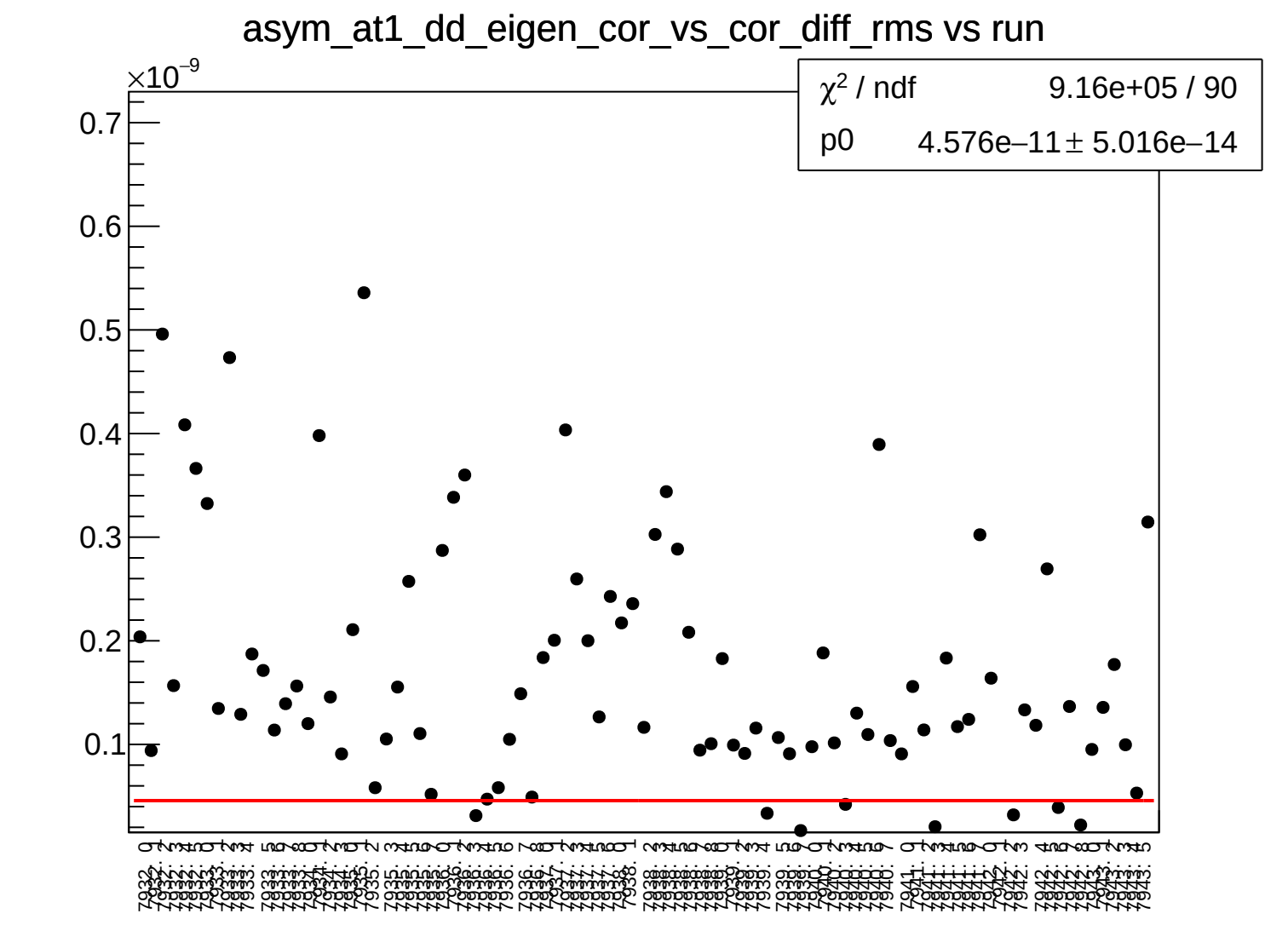

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.281e+05 / 90
p0 70.53 ± 0.05541
120
100
80
60
40

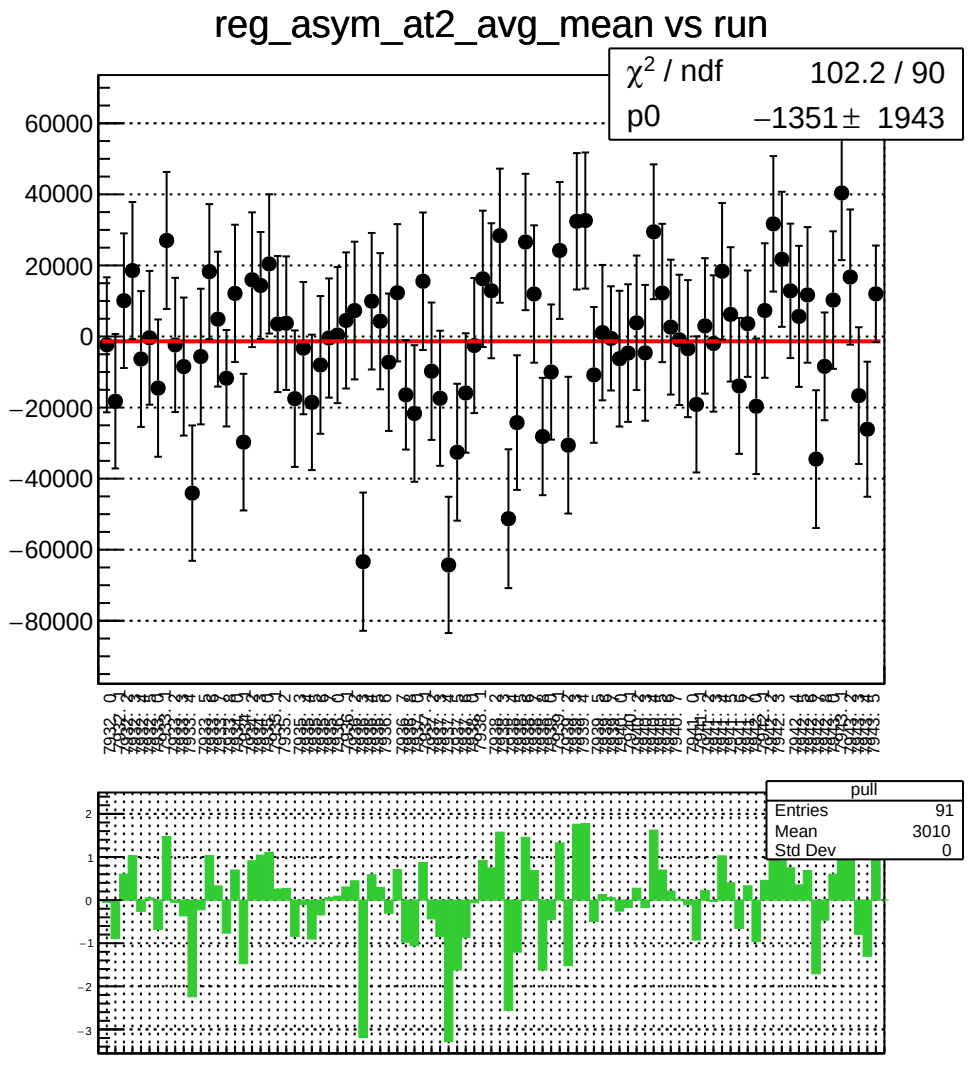

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −0.02304 ± 0.07836
pull
Entries 91
Mean 64.53
Std Dev 0
pull1D
Entries 91
Mean −0.02121
Std Dev 1.046

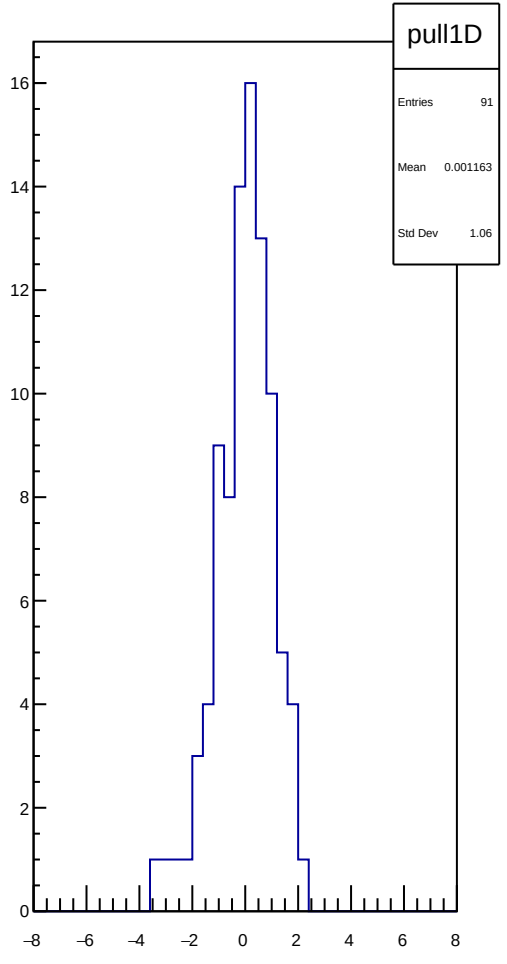

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.281e+05 / 90
p0 70.53 ± 0.05541
120
100
80
60
40

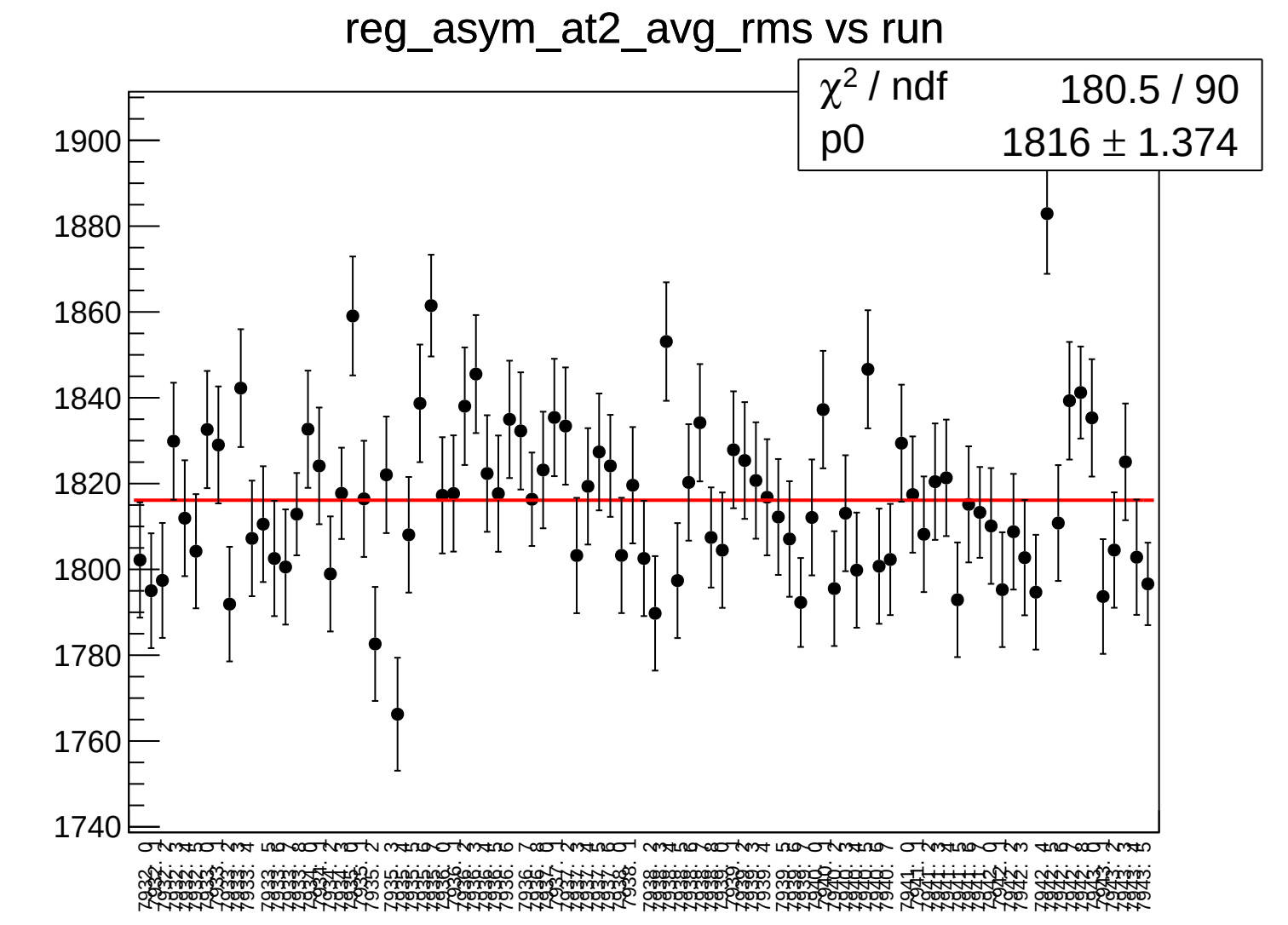

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.66 / 90
p0 4.265e−14 ± 7.094e−14
pull
Entries 91
Mean 17.7
Std Dev 0

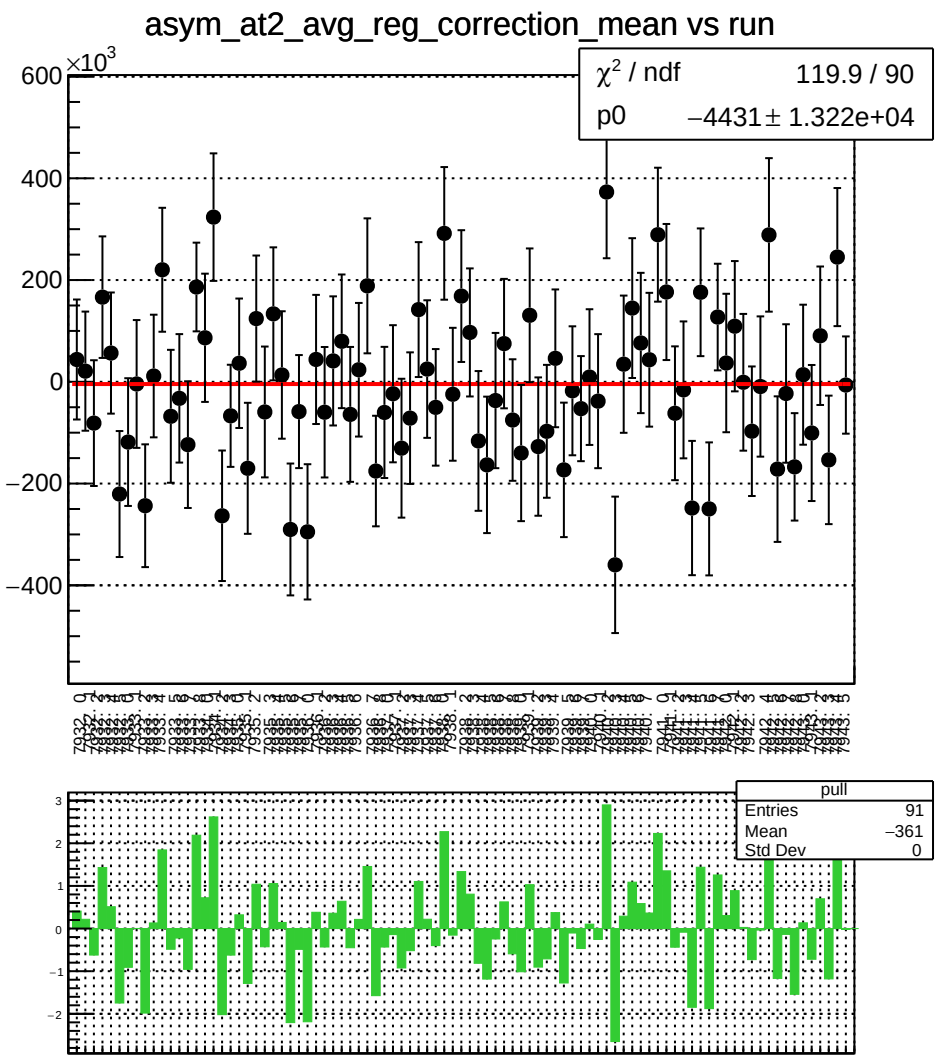

pull1D
Entries 91
Mean 0.06516
Std Dev 0.9737

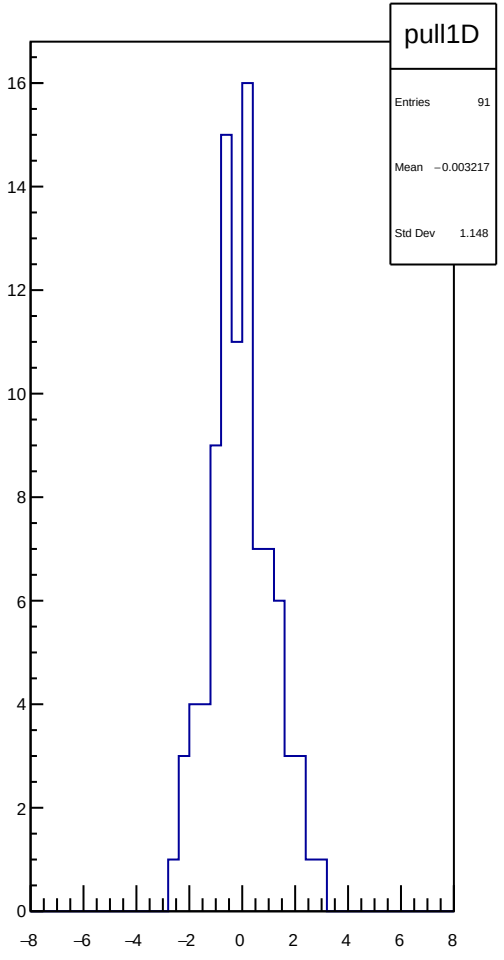

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.16e+05 / 90
p0 4.576e−11 ± 5.016e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

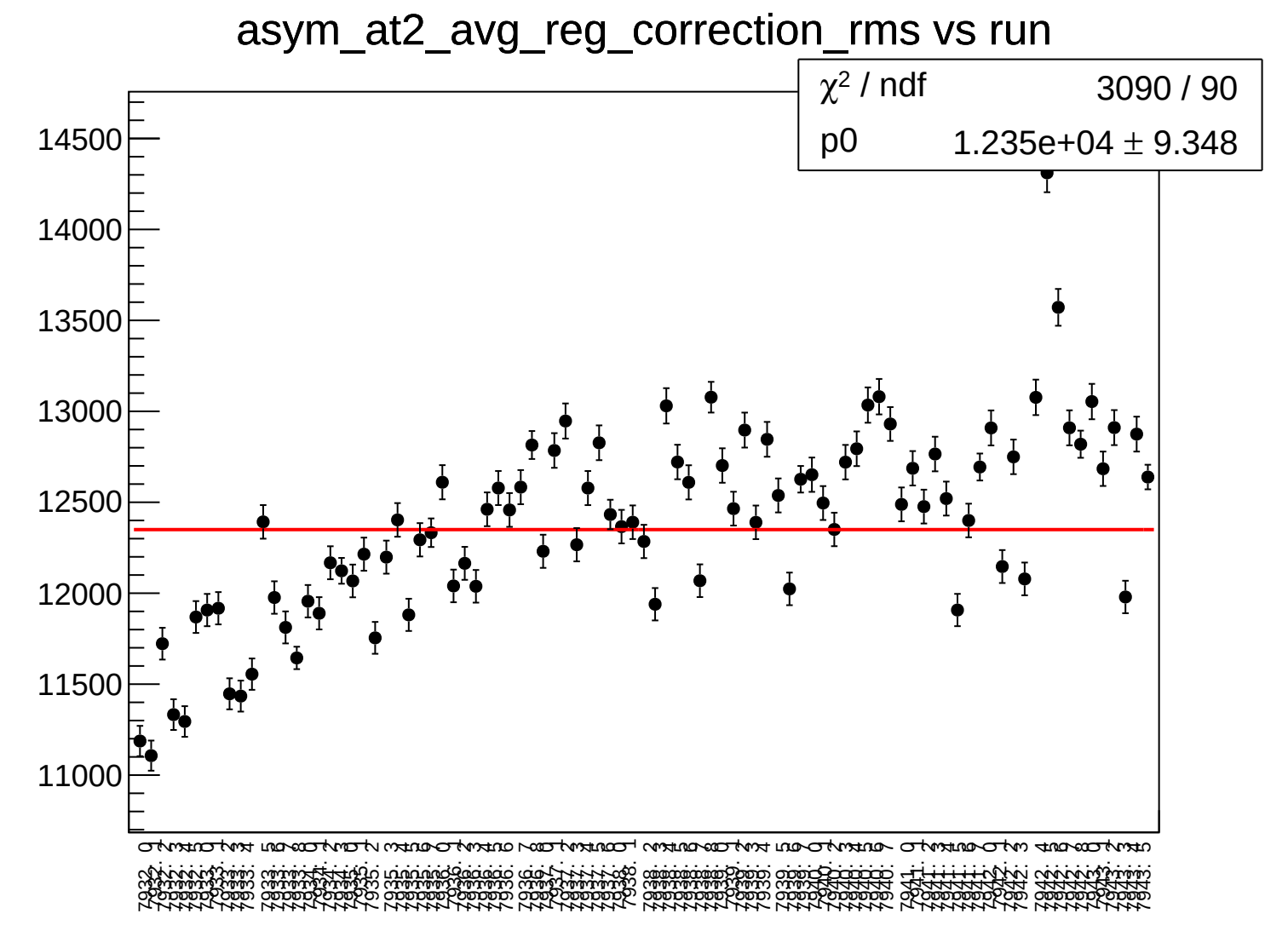

reg_asym_at2_avg_mean vs run
χ² / ndf 102.2 / 90
p0 −1351 ± 1943
pull
Entries 91
Mean 3010
Std Dev 0

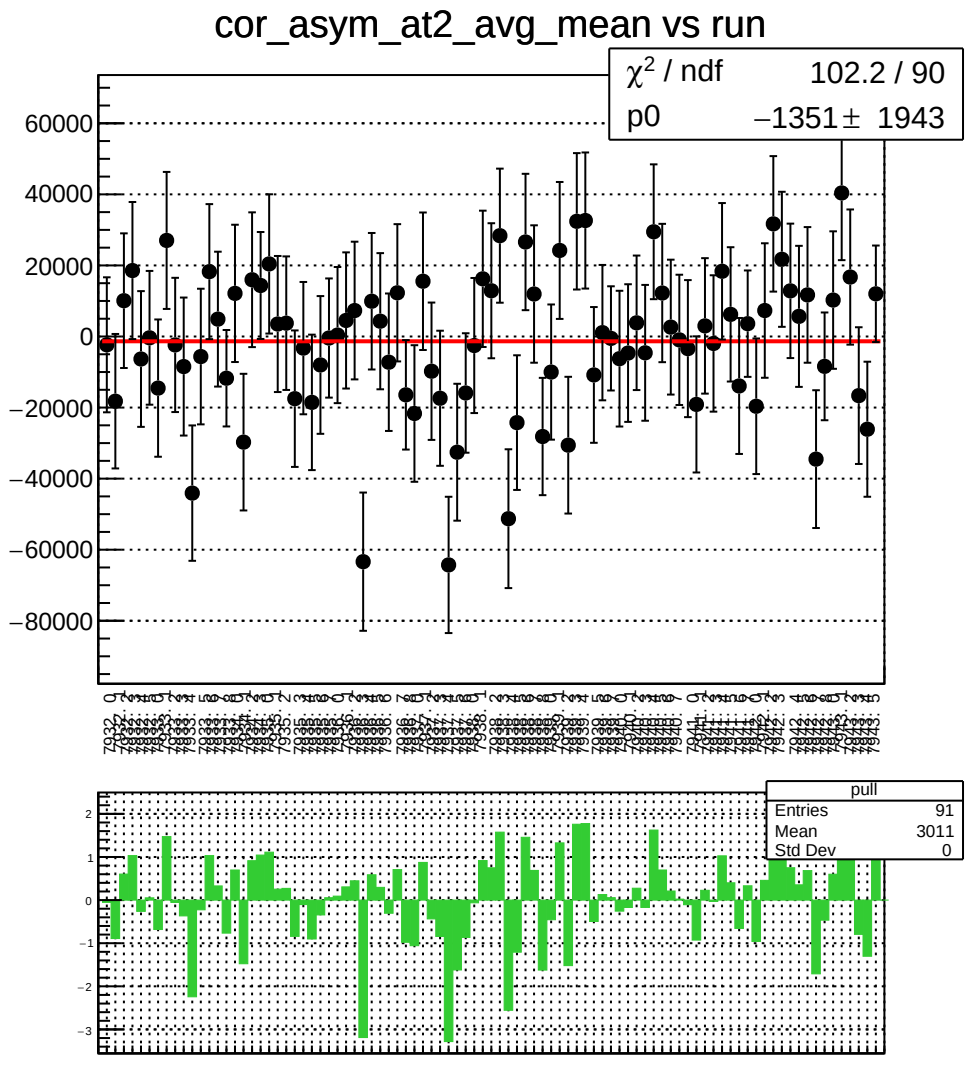

pull1D
Entries 91
Mean 0.001163
Std Dev 1.06

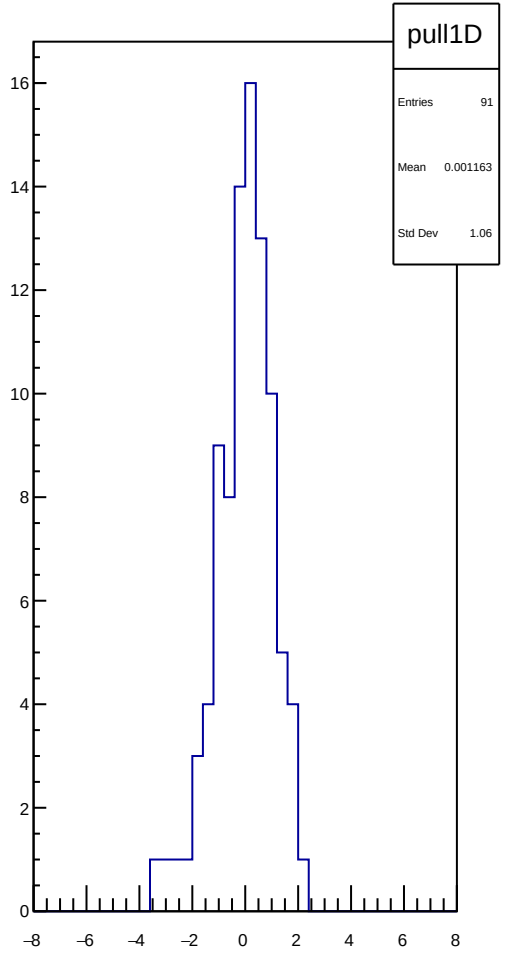

reg_asym_at2_avg_rms vs run
χ^2 / ndf 180.5 / 90
p0 1816 ± 1.374
1900
1880
1860
1840
1820
1800
1780
1760
1740

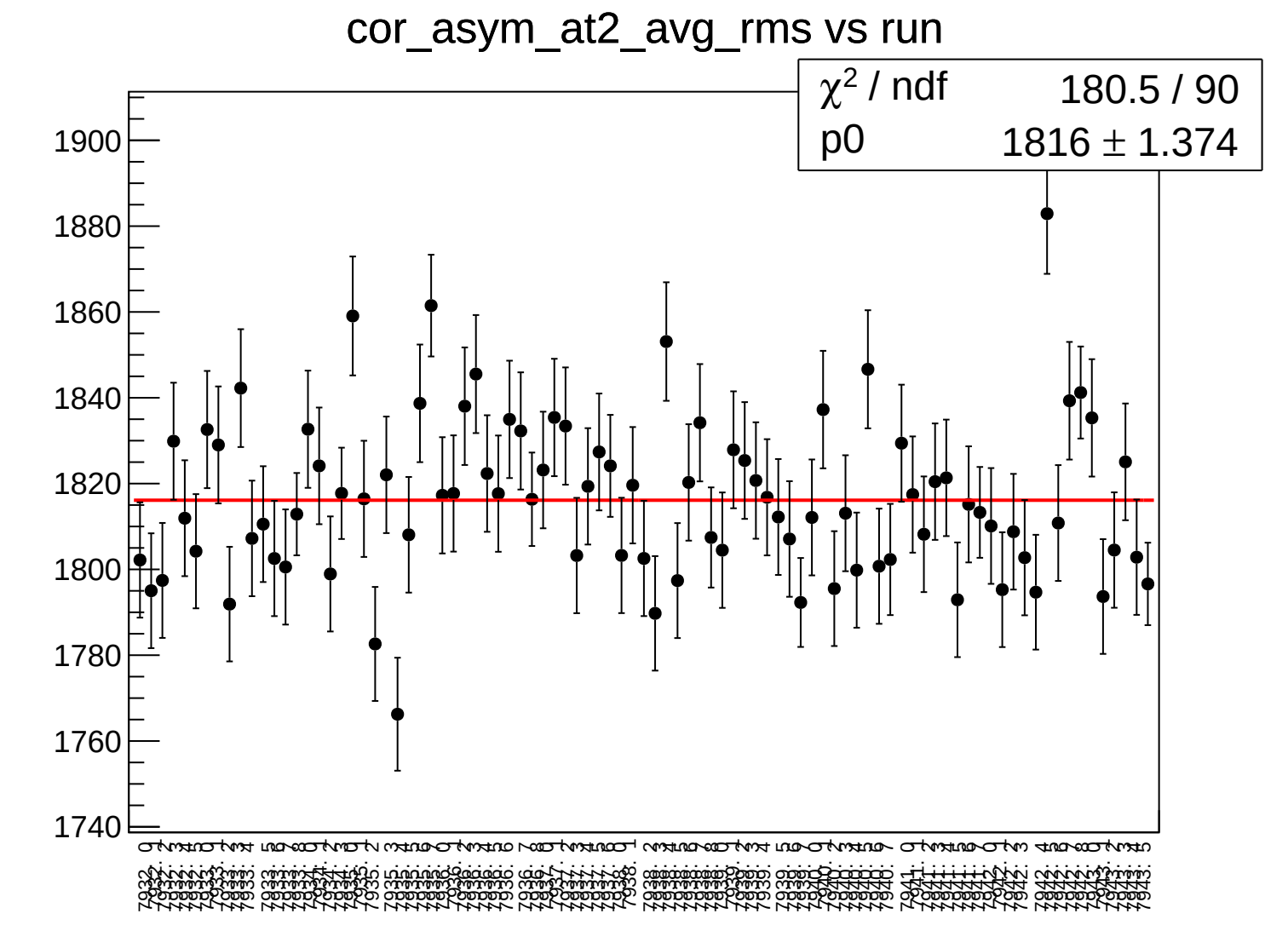

asym_at2_avg_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 119.9 / 90
p0 −4431 ± 1.322e+04
pull
Entries 91
Mean −361
Std Dev 0
3
2
1
0
−1
−2

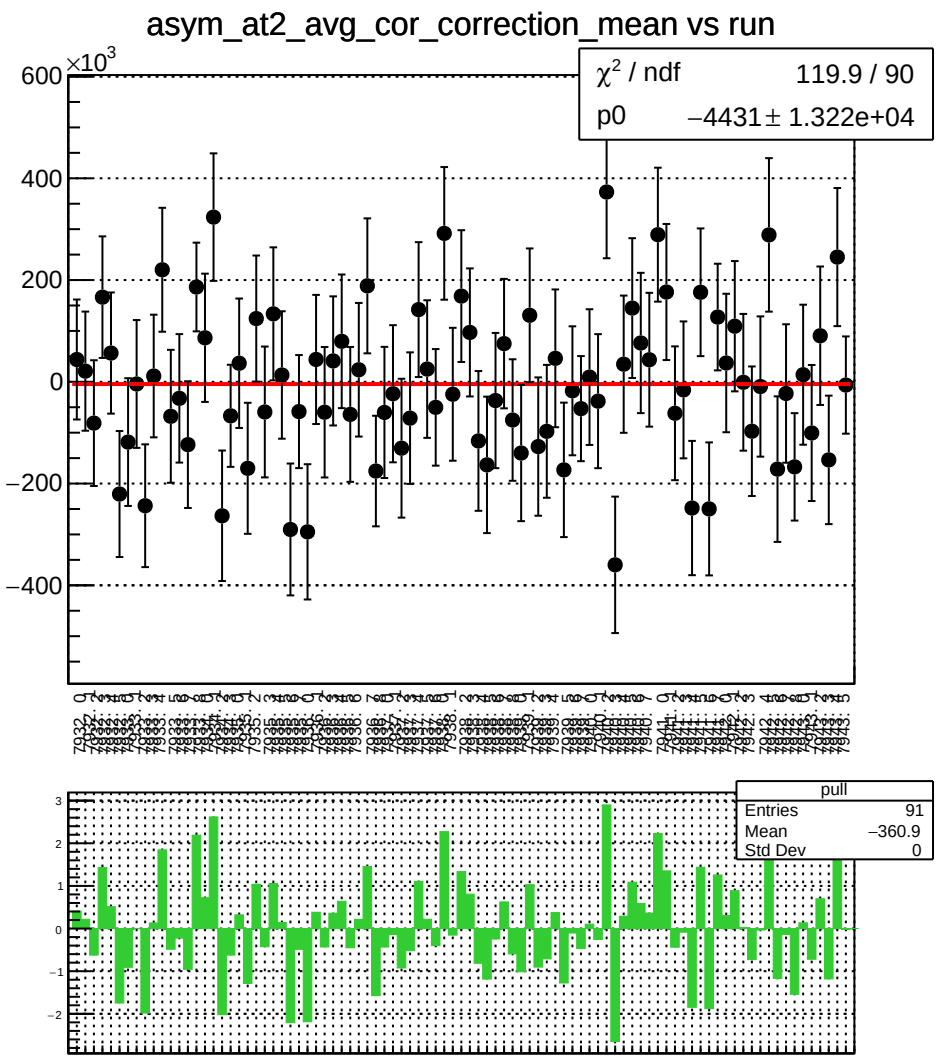

pull1D
Entries 91
Mean −0.003217
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

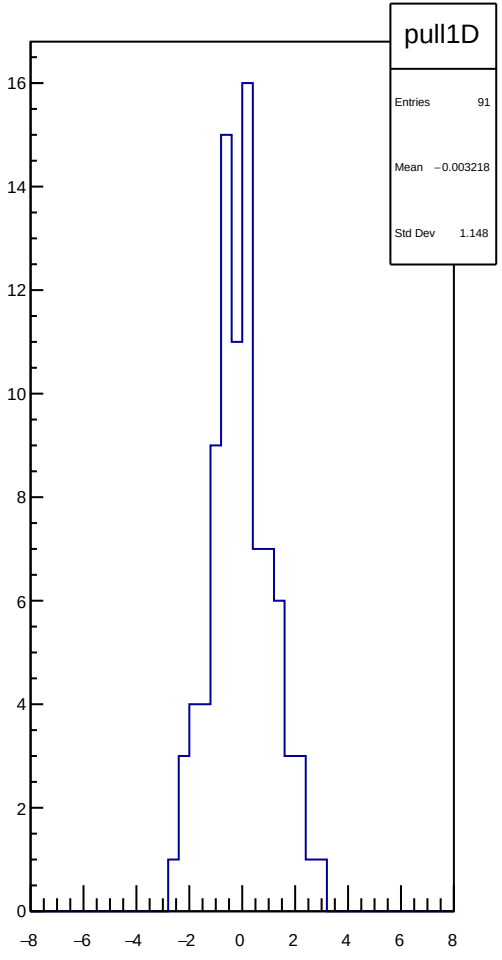

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3090 / 90
p0 1.235e+04 ± 9.348
14500
14000
13500
13000
12500
12000
11500
11000


cor_asym_at2_avg_mean vs run
χ² / ndf 102.2 / 90
p0 −1351 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 3011
Std Dev 0
2
1
0
−1
−2
−3

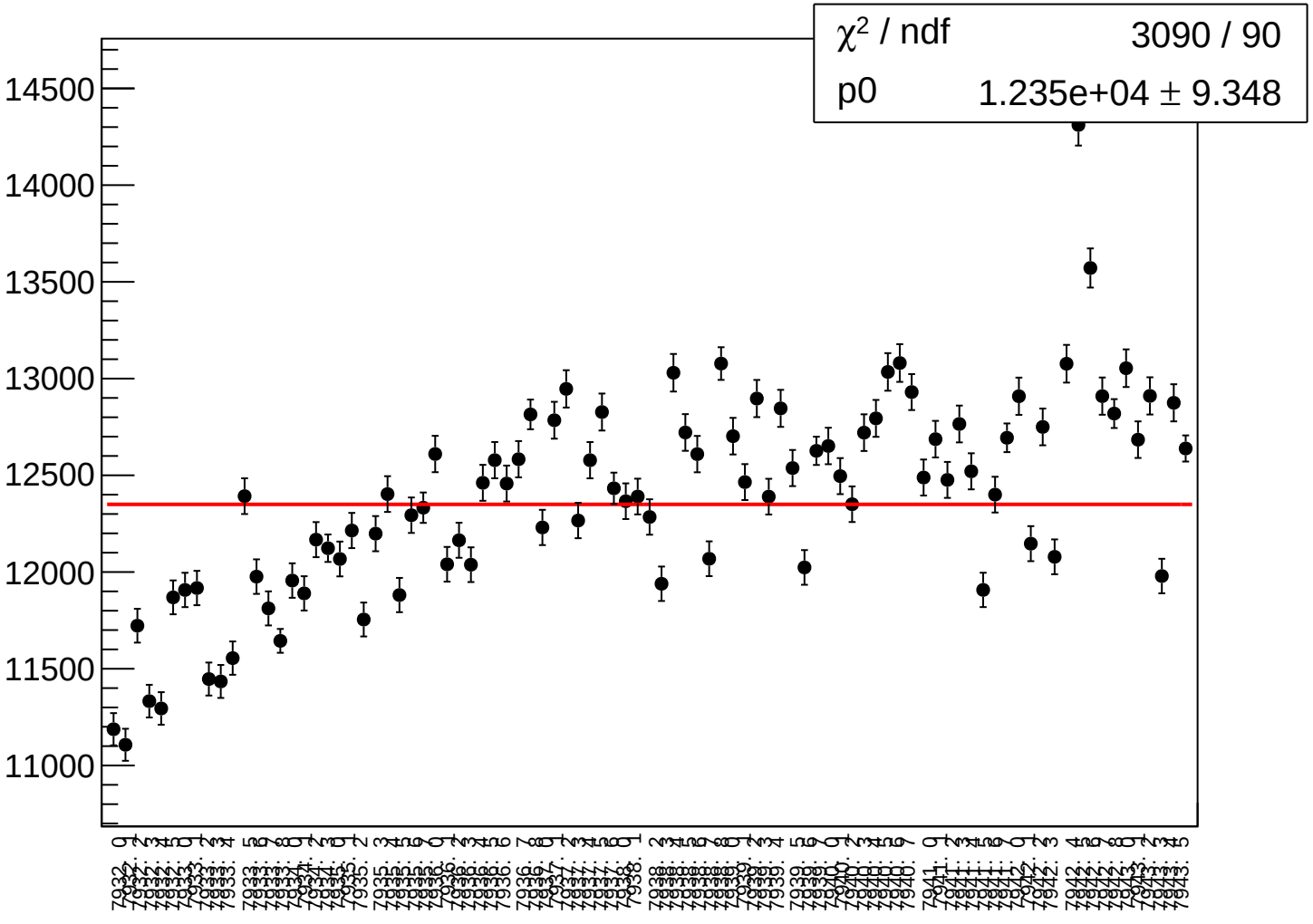

pull1D
Entries 91
Mean 0.001163
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

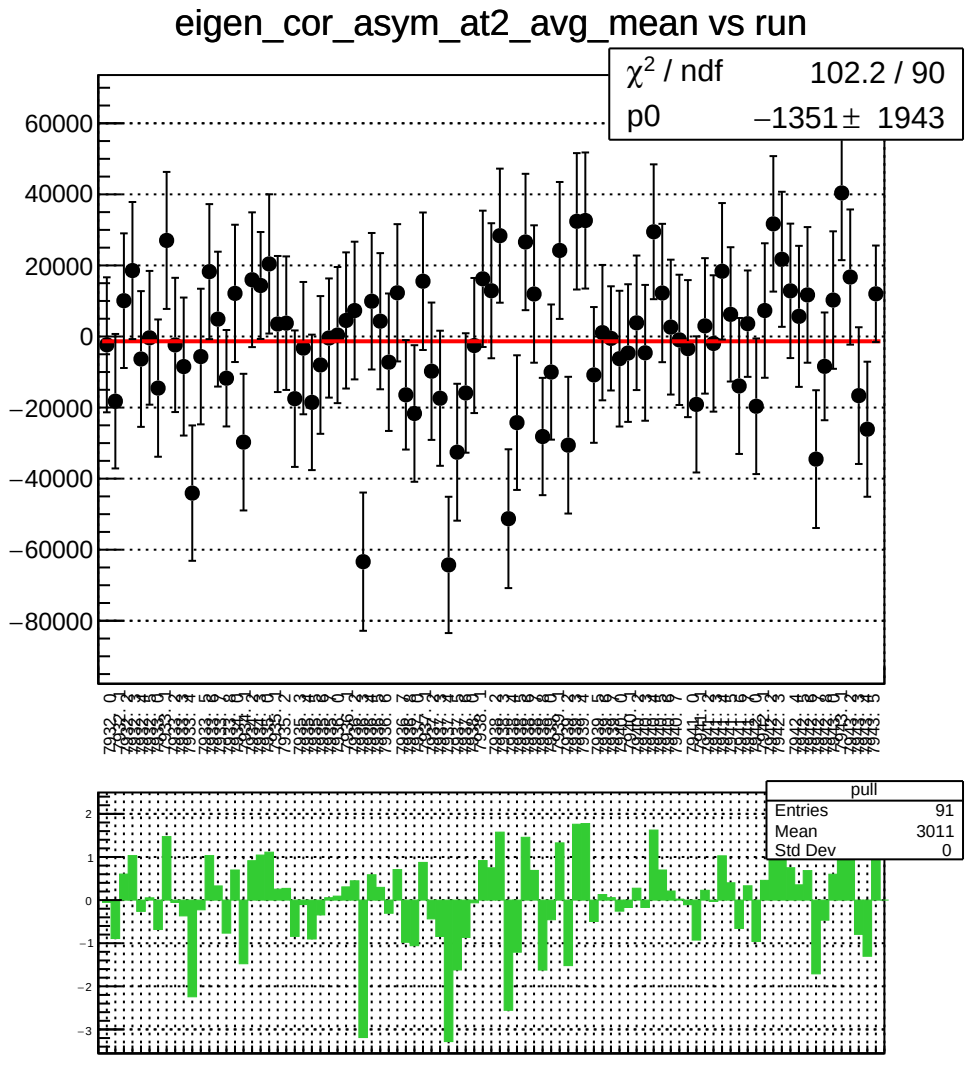

cor_asym_at2_avg_rms vs run
χ^2 / ndf 180.5 / 90
p0 1816 ± 1.374
1900
1880
1860
1840
1820
1800
1780
1760
1740

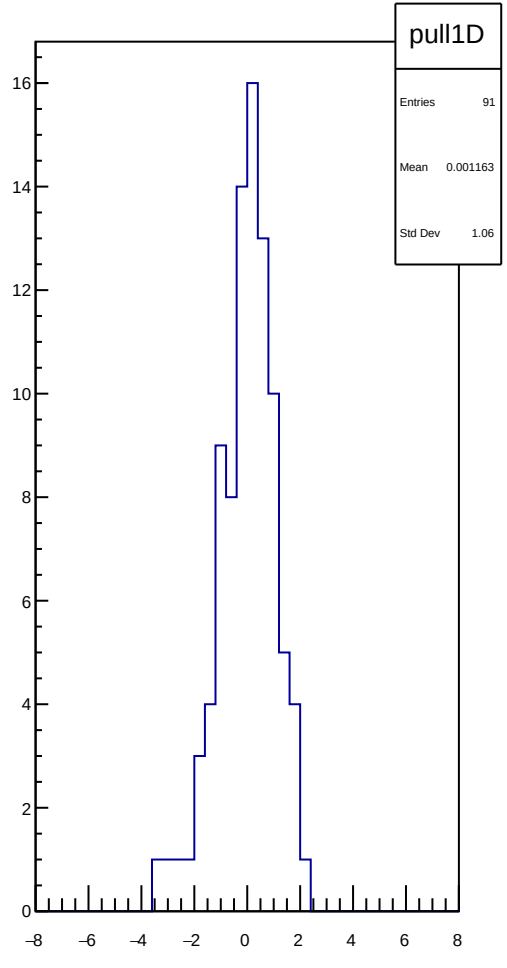

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 119.9 / 90
p0 −4431 ± 1.322e+04
×10³
pull
Entries 91
Mean −360.9
Std Dev 0

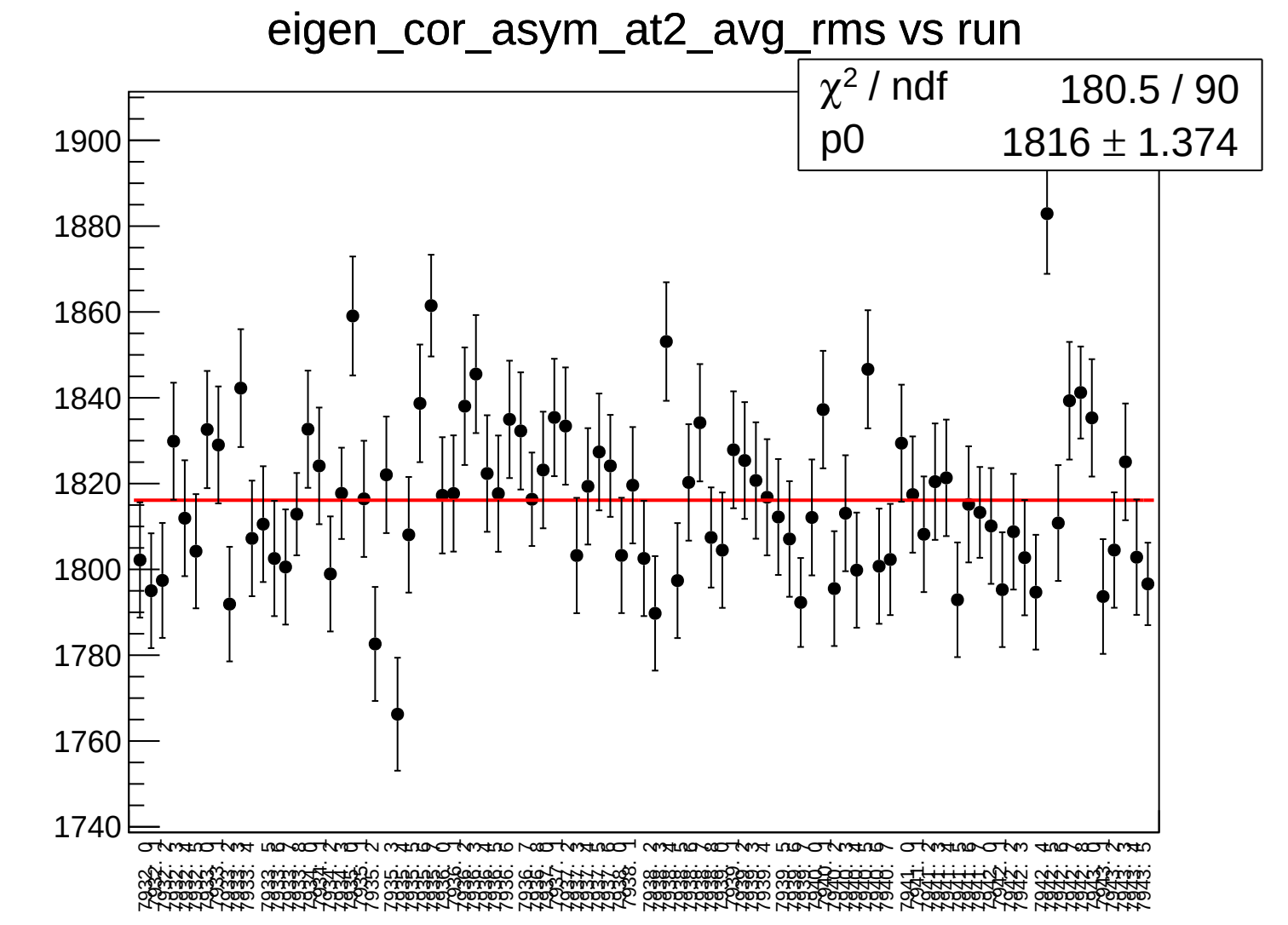

pull1D
Entries 91
Mean −0.003218
Std Dev 1.148

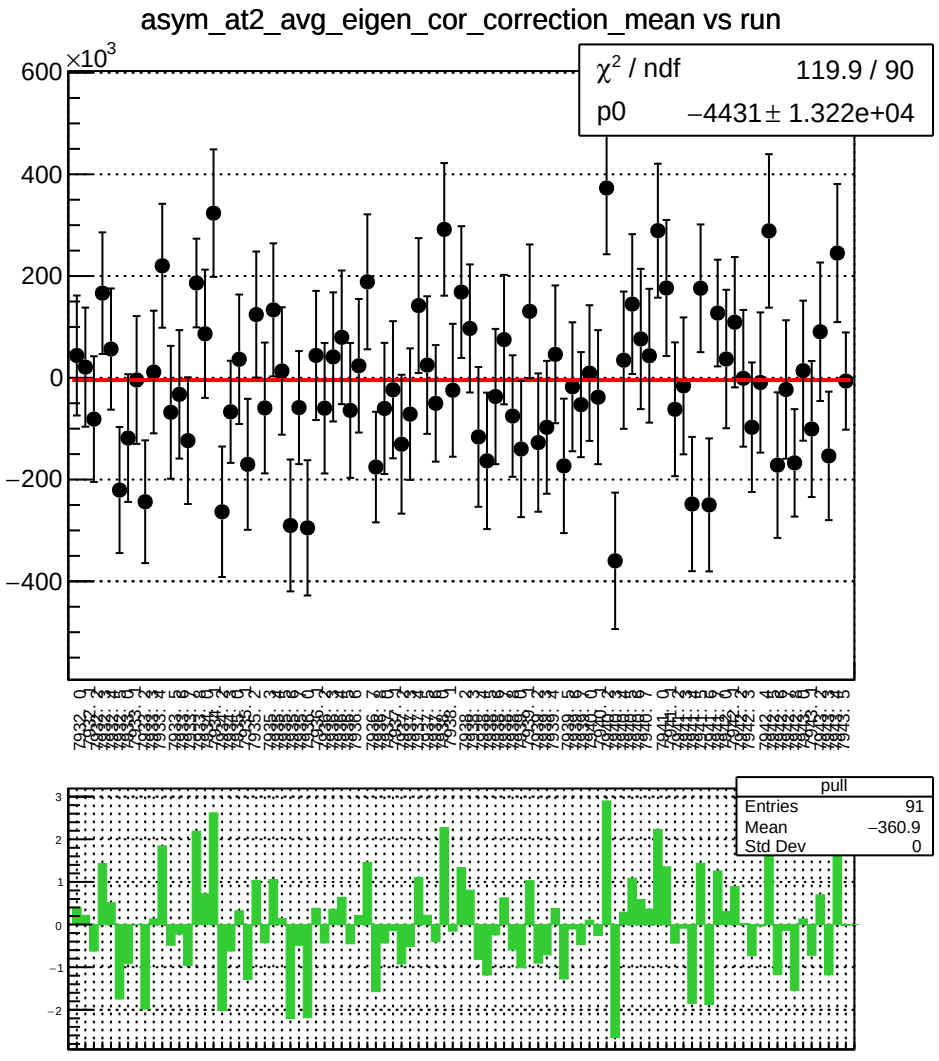
asym_at2_avg_cor_correction_rms vs run

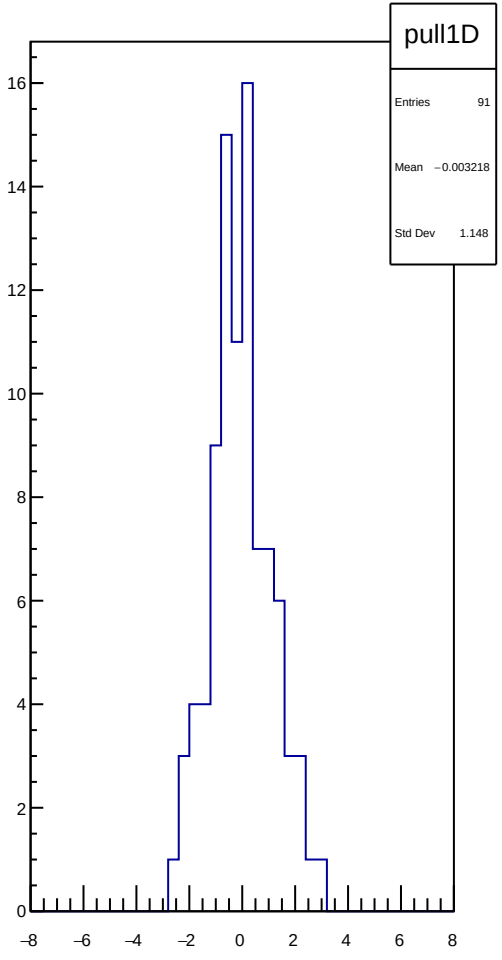


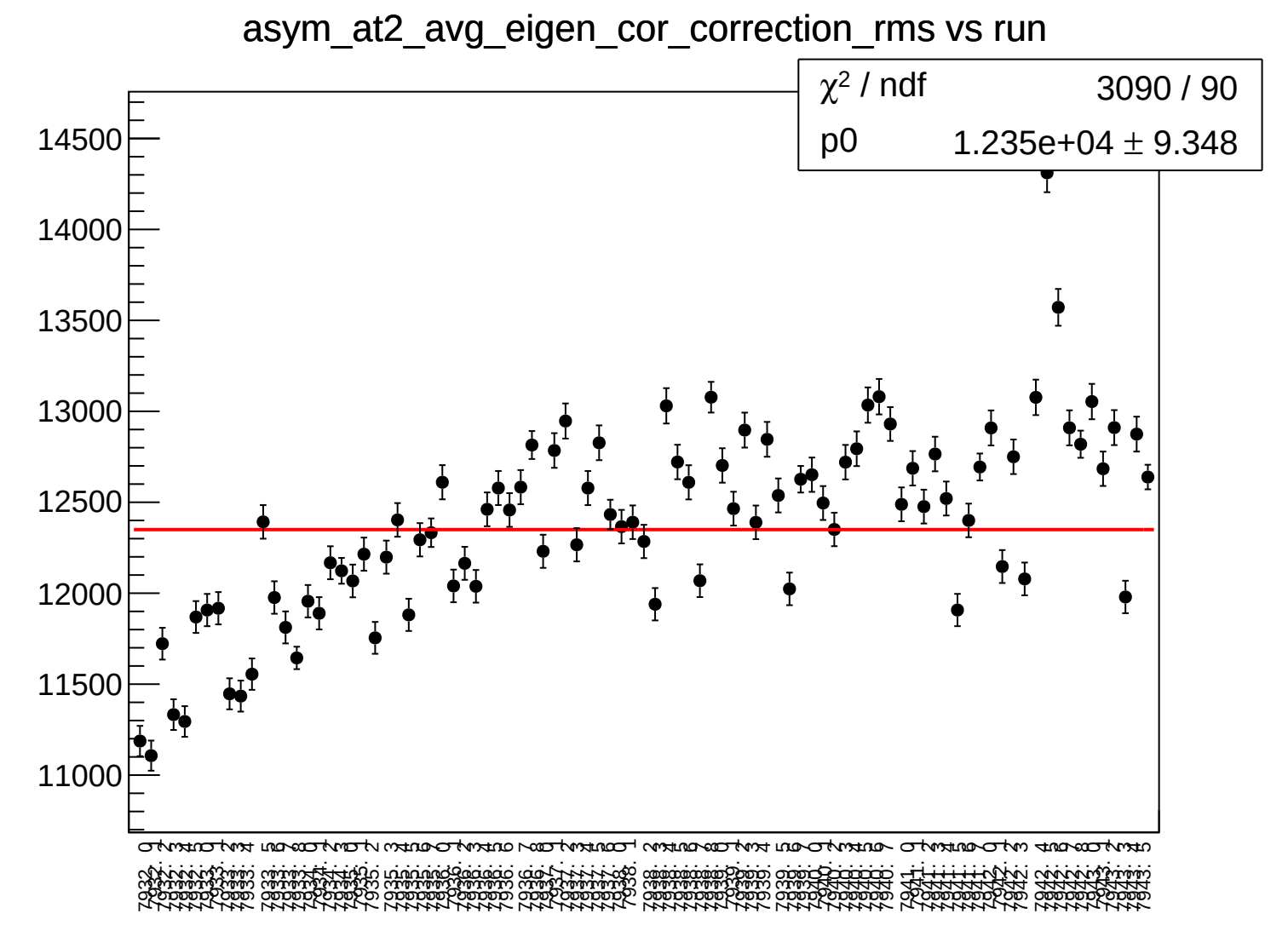

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 102.2 / 90
p0 −1351 ± 1943
pull
Entries 91
Mean 3011
Std Dev 0

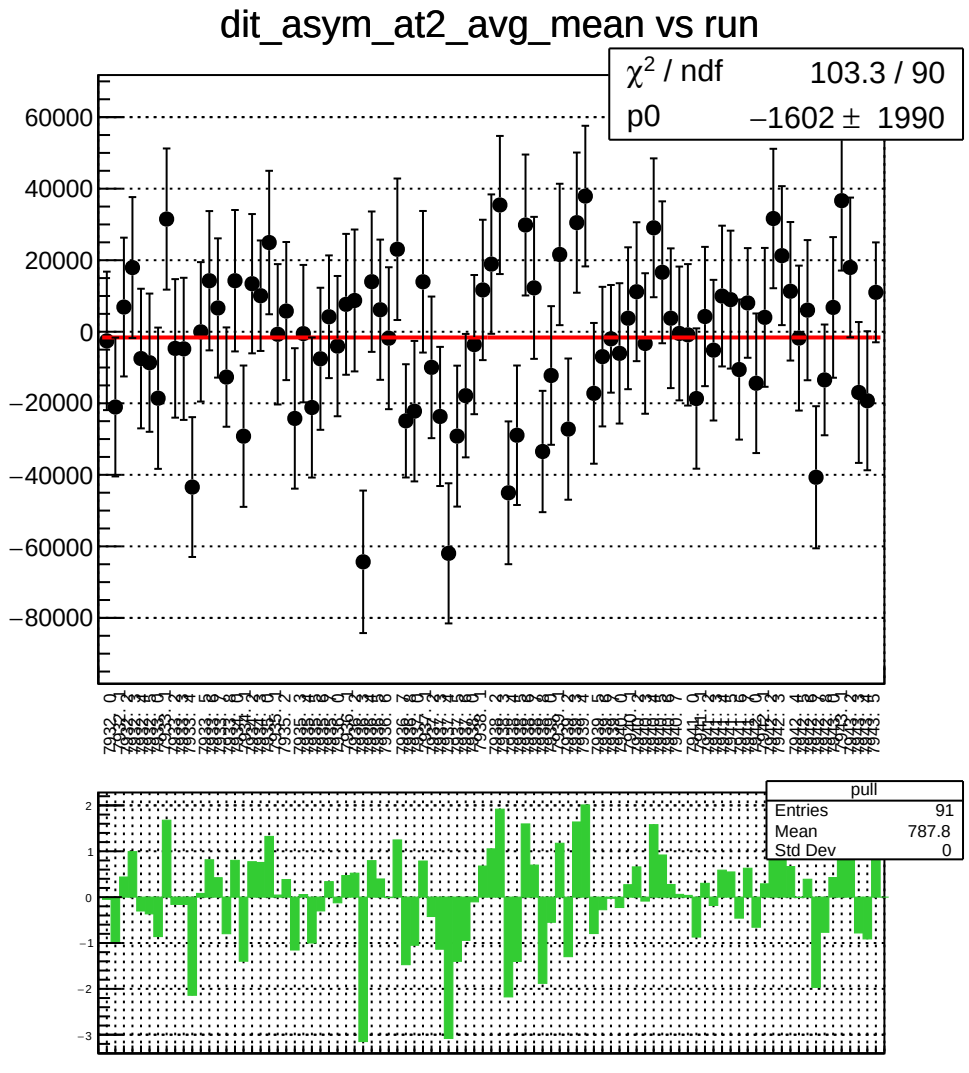

pull1D
Entries 91
Mean 0.001163
Std Dev 1.06

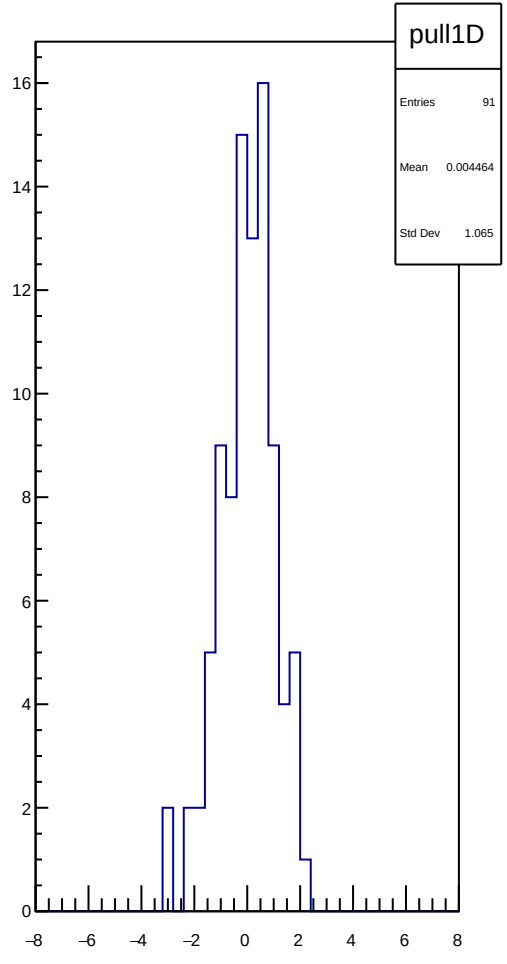

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 180.5 / 90
p0 1816 ± 1.374
1900
1880
1860
1840
1820
1800
1780
1760
1740

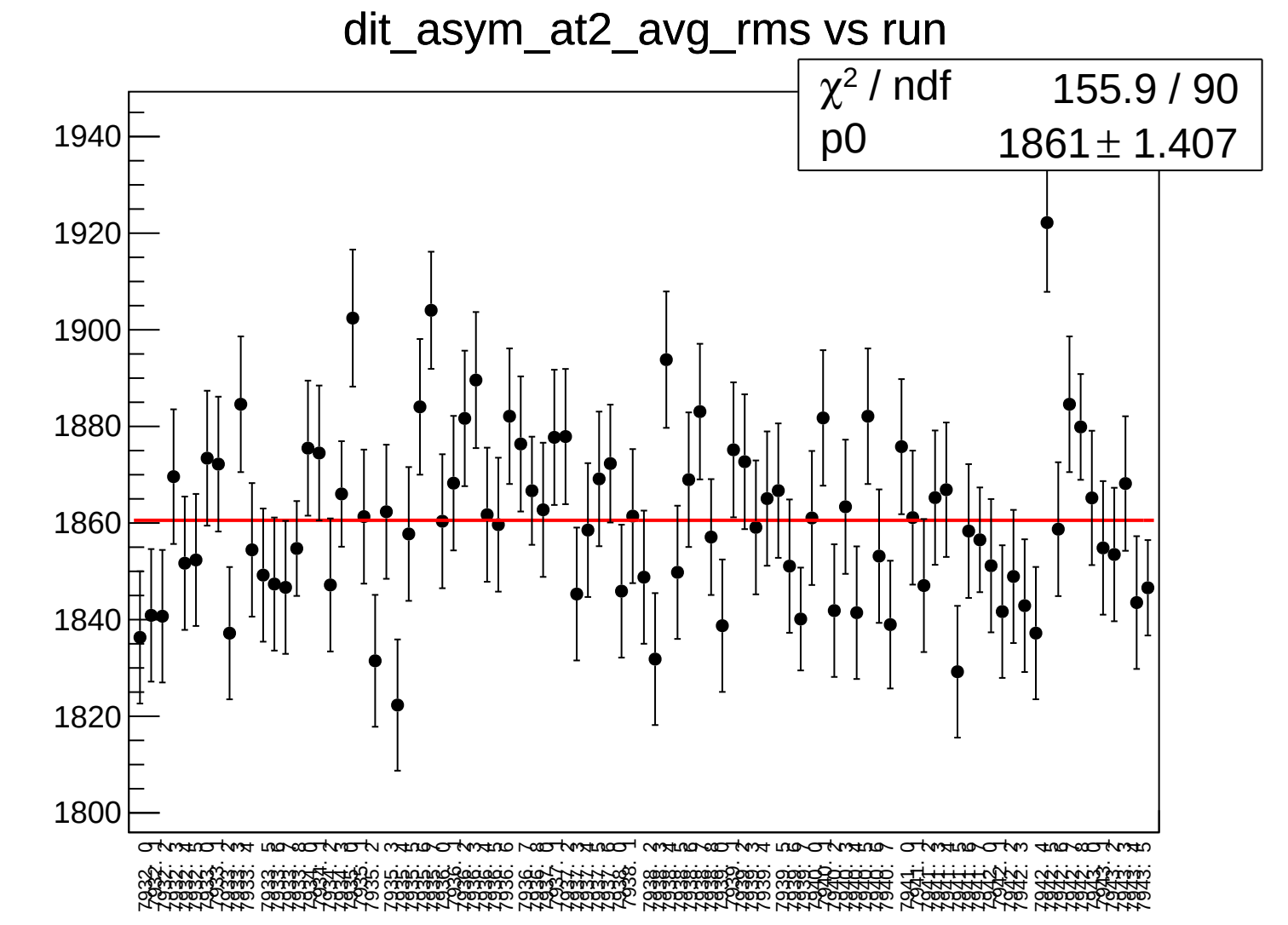

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 119.9 / 90
p0 −4431 ± 1.322e+04
×10³
600
400
200
0
−200
−400
pull
Entries 91
Mean −360.9
Std Dev 0
3
2
1
0
−1
−2

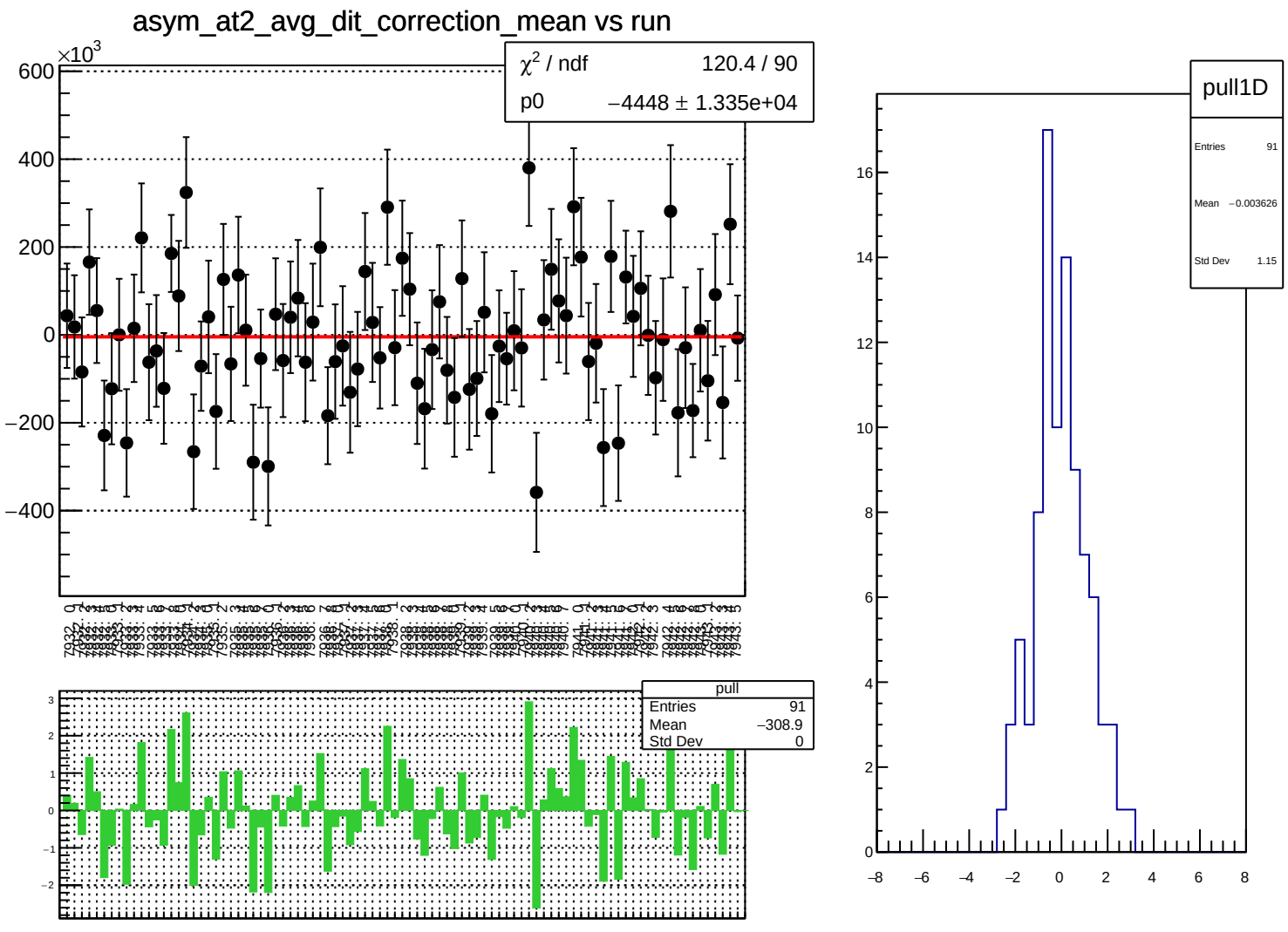

pull1D
Entries 91
Mean −0.003218
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

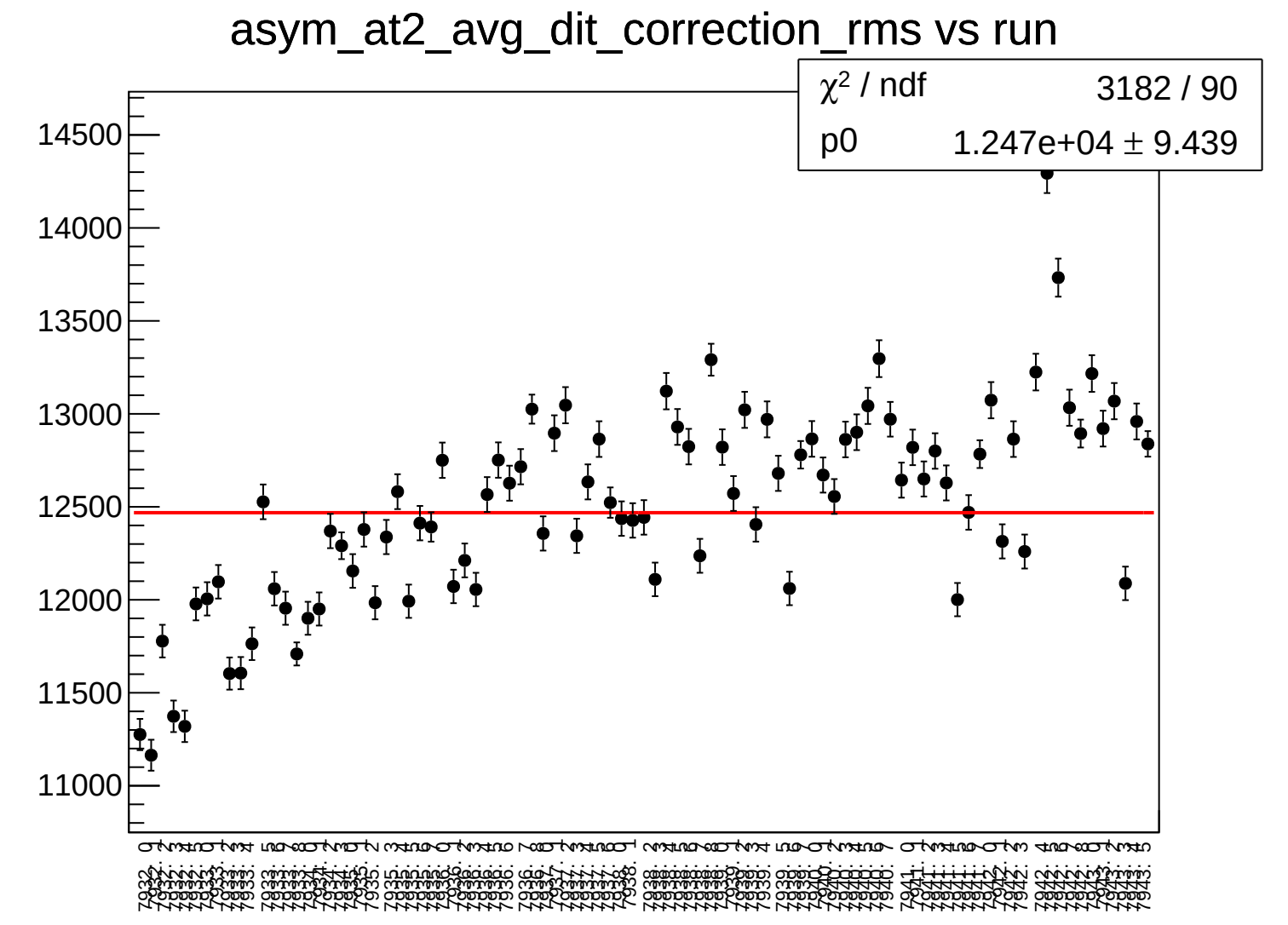

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3090 / 90
p0 1.235e+04 ± 9.348
14500
14000
13500
13000
12500
12000
11500
11000

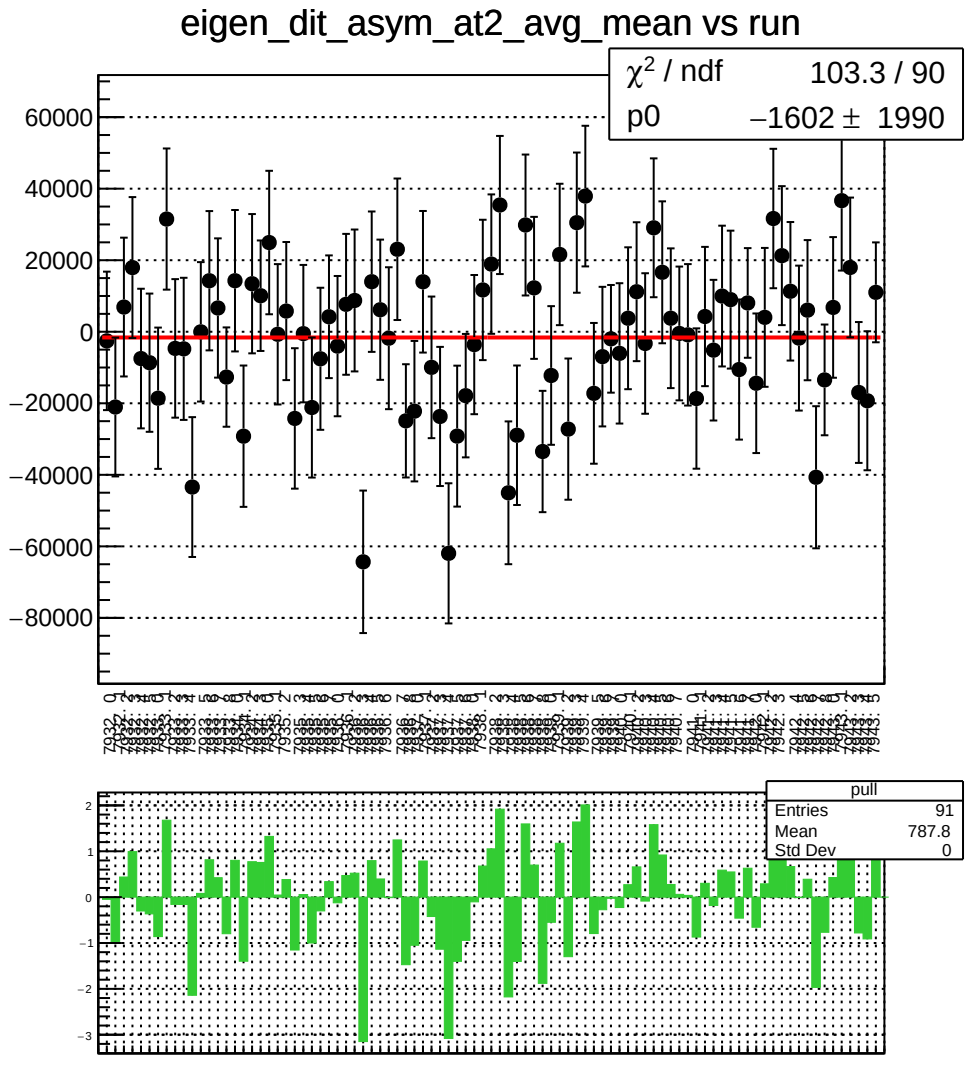

dit_asym_at2_avg_mean vs run
χ² / ndf 103.3 / 90
p0 −1602 ± 1990
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 787.8
Std Dev 0
2
1
0
−1
−2
−3

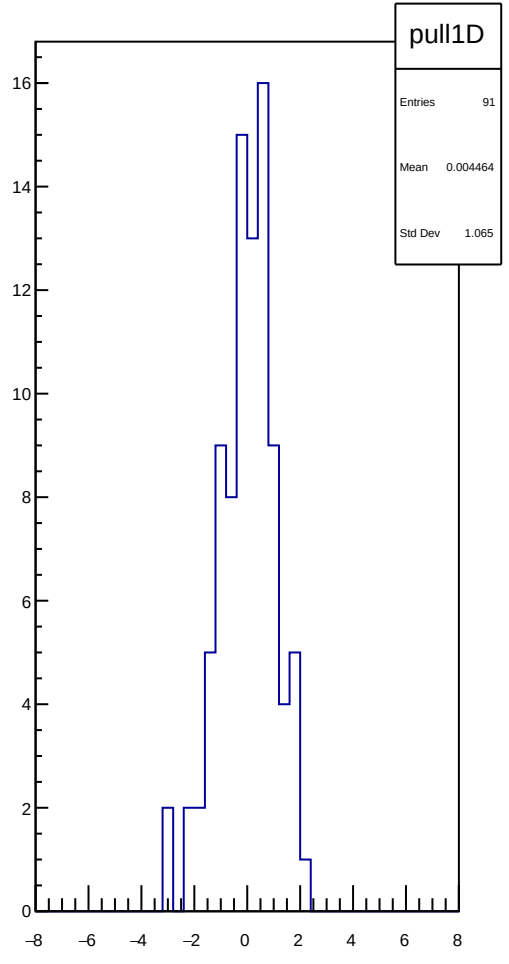

pull1D
Entries 91
Mean 0.004464
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

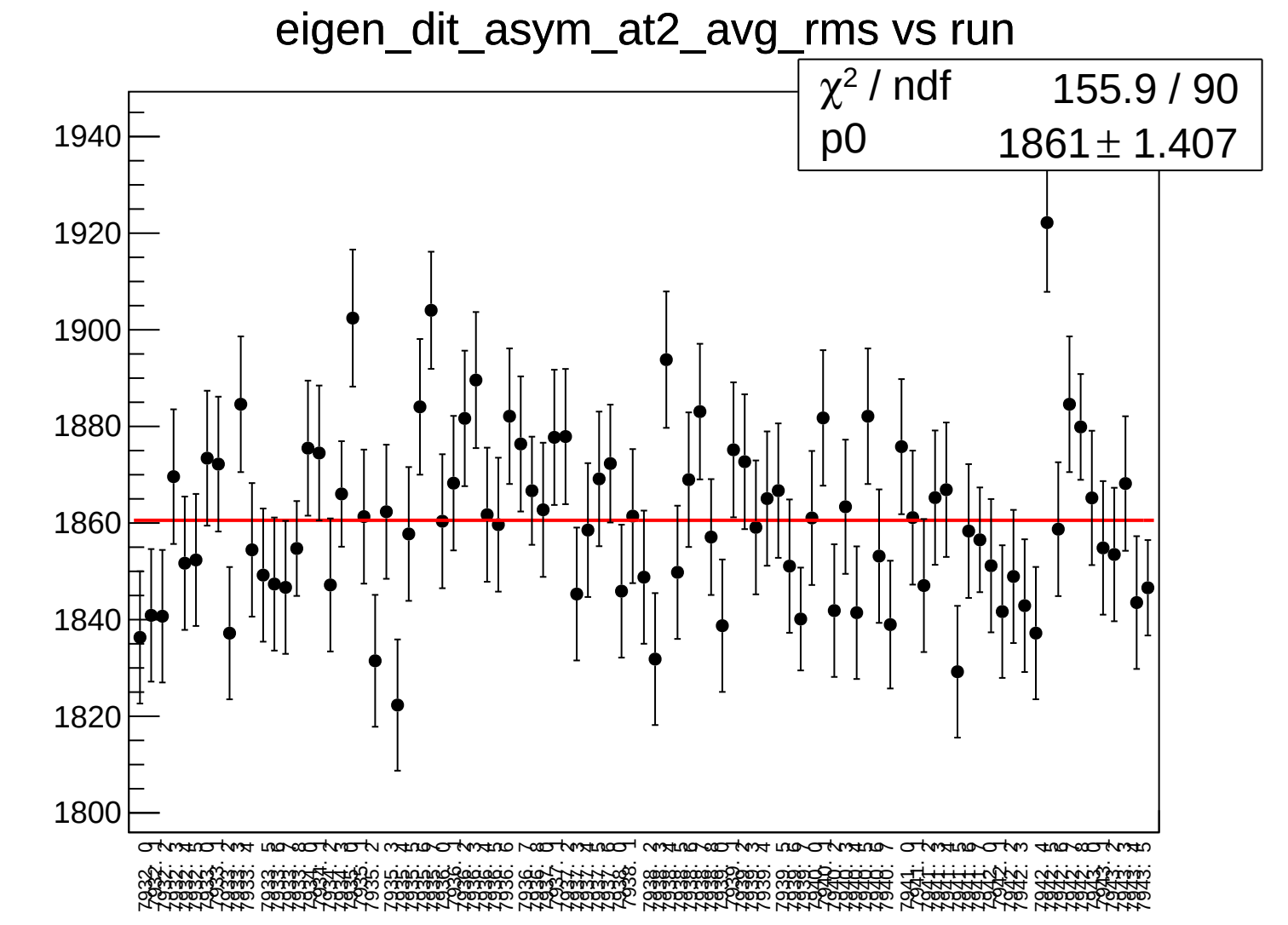

dit_asym_at2_avg_rms vs run
χ² / ndf 155.9 / 90
p0 1861 ± 1.407
1940
1920
1900
1880
1860
1840
1820
1800

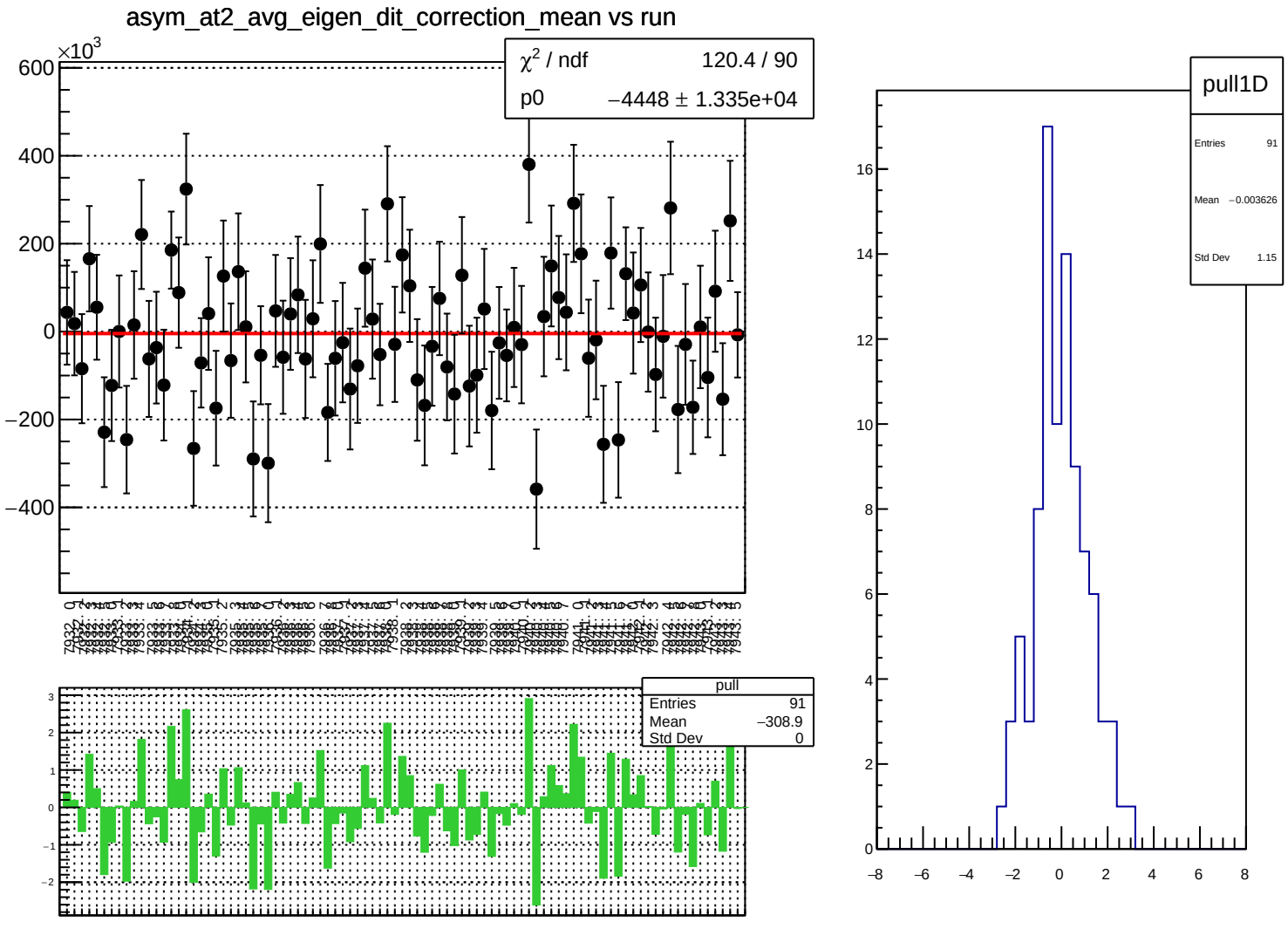

asym_at2_avg_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 120.4 / 90
p0 −4448 ± 1.335e+04
pull
Entries 91
Mean −308.9
Std Dev 0
pull1D
Entries 91
Mean −0.003626
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

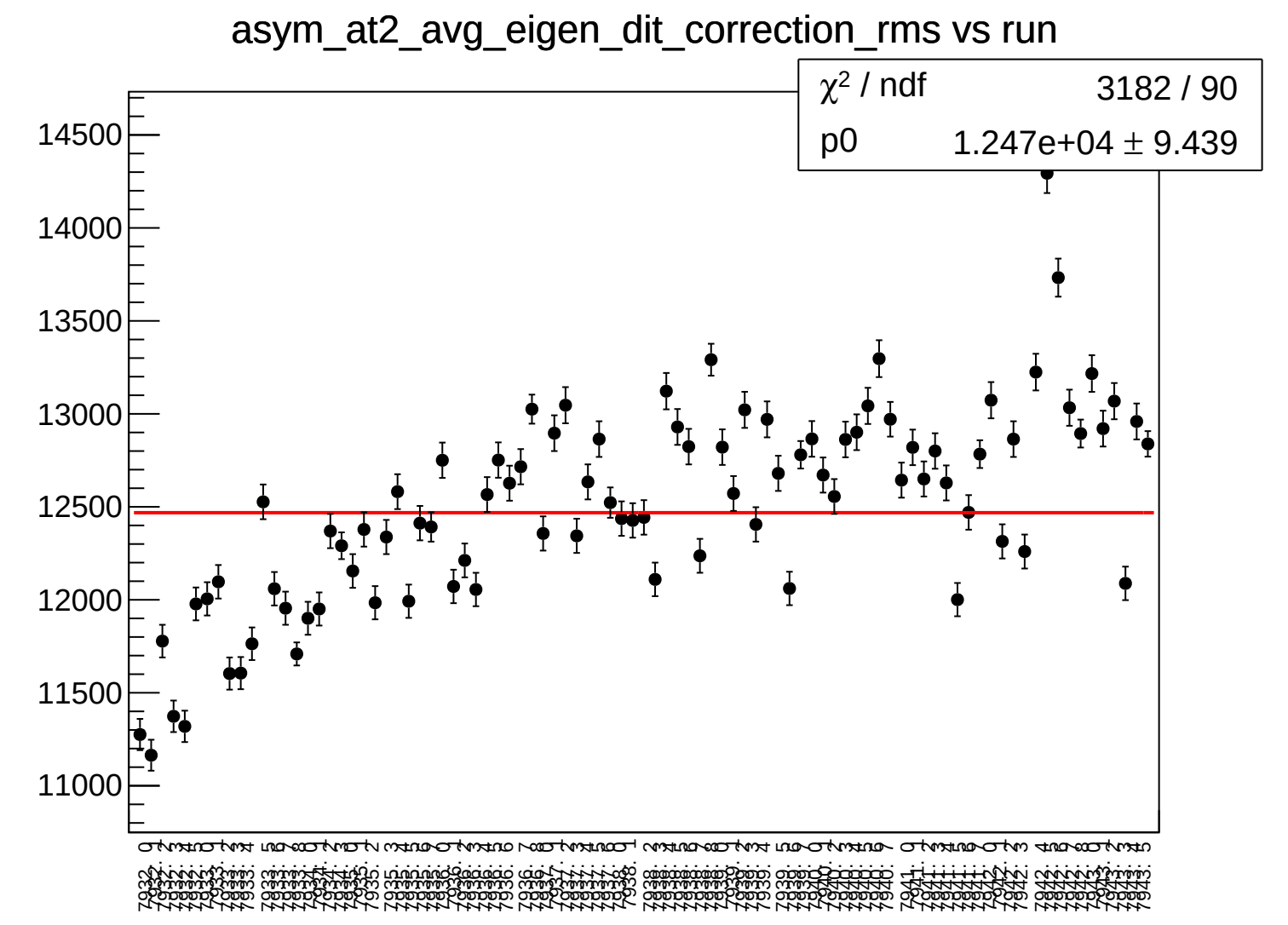

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3182 / 90
p0 1.247e+04 ± 9.439
14500
14000
13500
13000
12500
12000
11500
11000

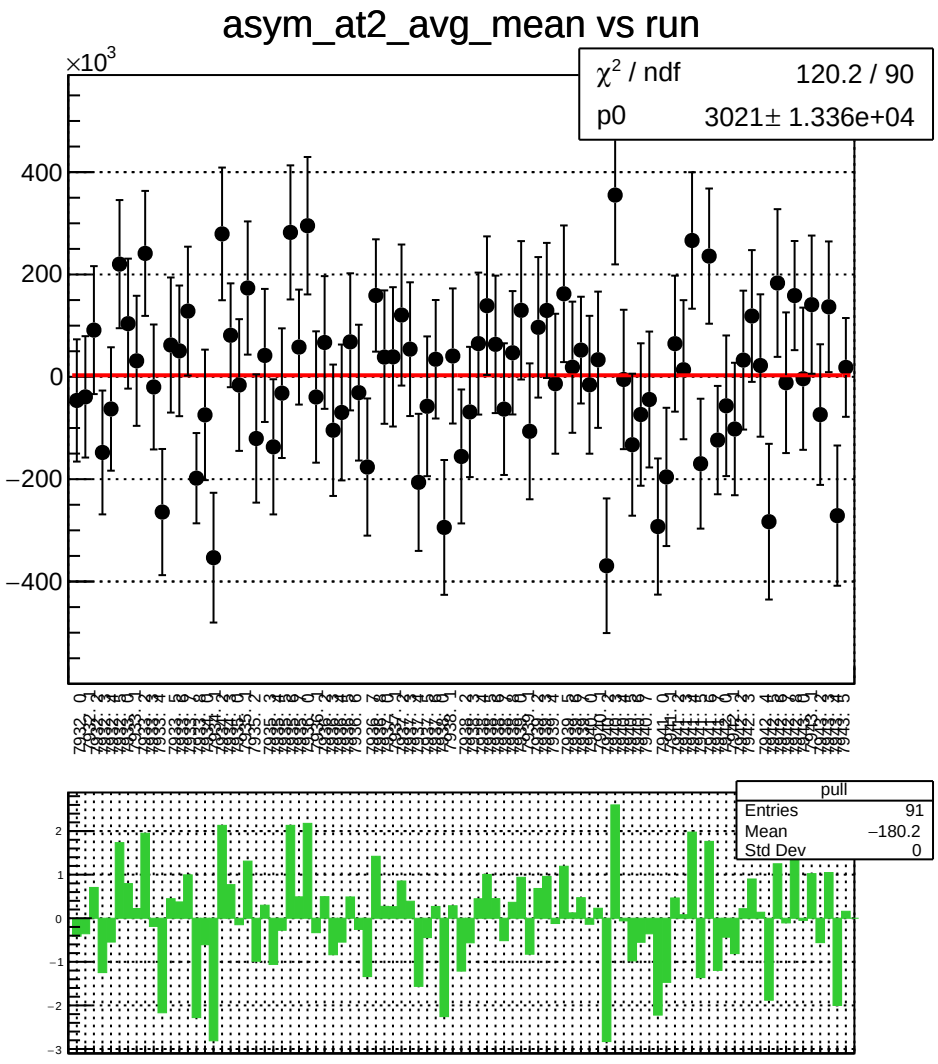

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 103.3 / 90
p0 −1602 ± 1990
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 787.8
Std Dev 0
2
1
0
−1
−2
−3

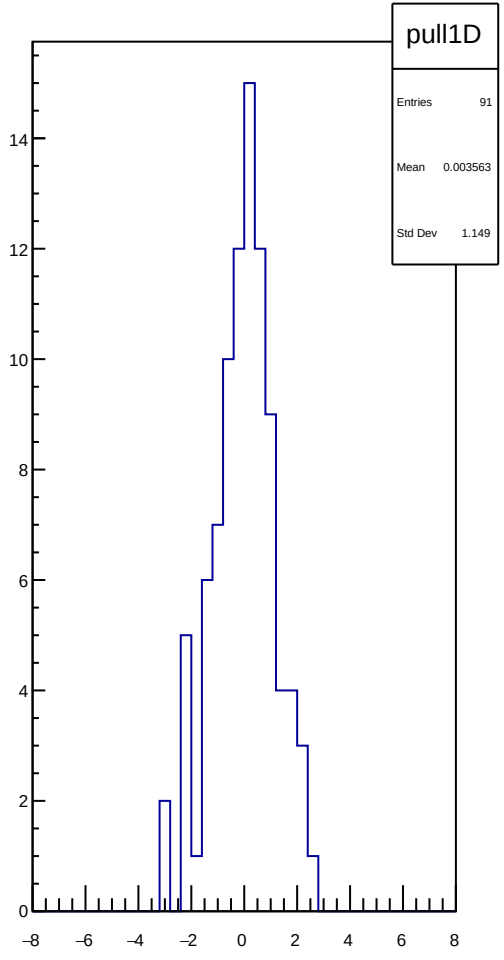

pull1D
Entries 91
Mean 0.004464
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

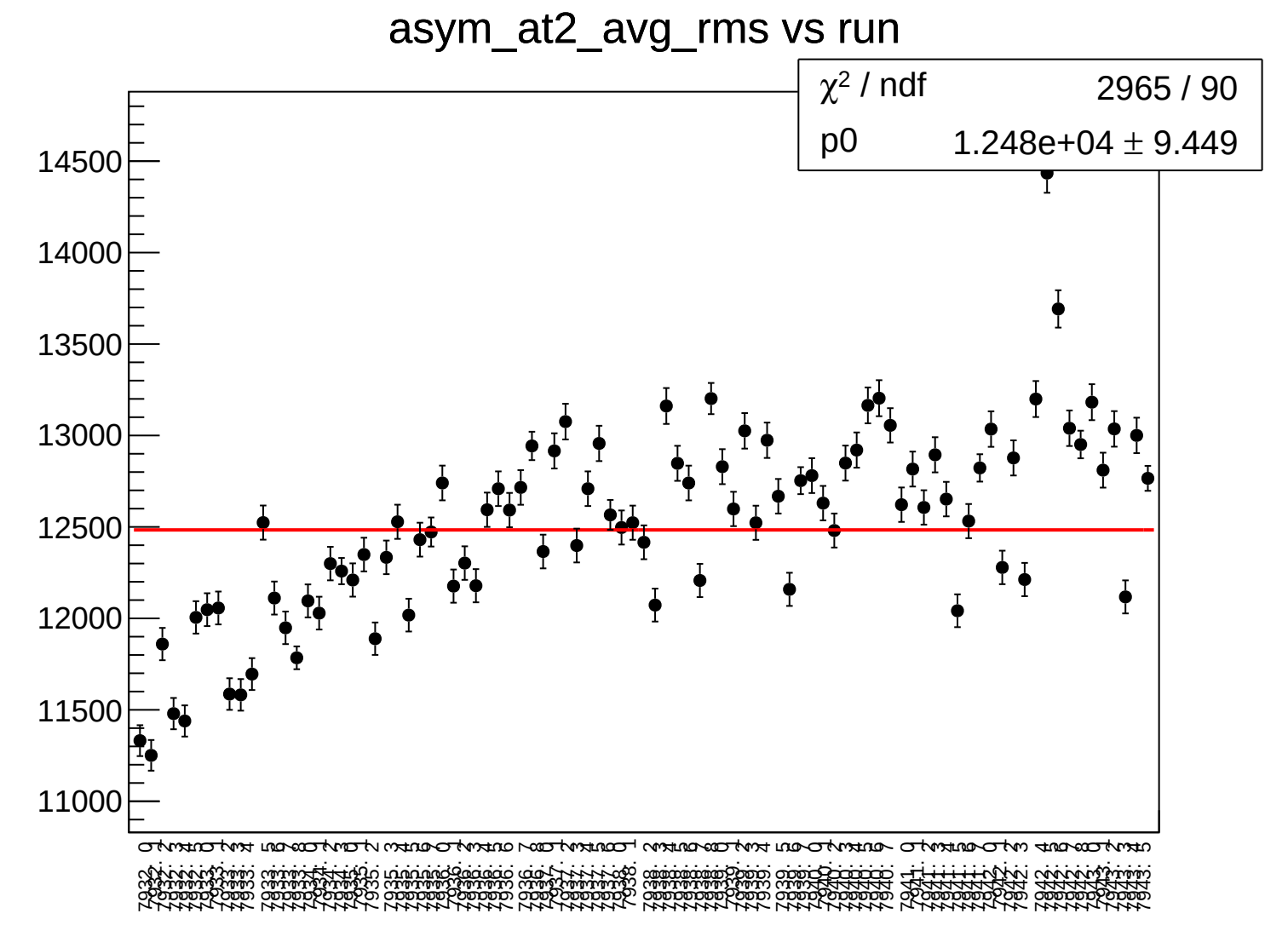

eigen_dit_asym_at2_avg_rms vs run
χ^2 / ndf 155.9 / 90
p0 1861 ± 1.407
1940
1920
1900
1880
1860
1840
1820
1800

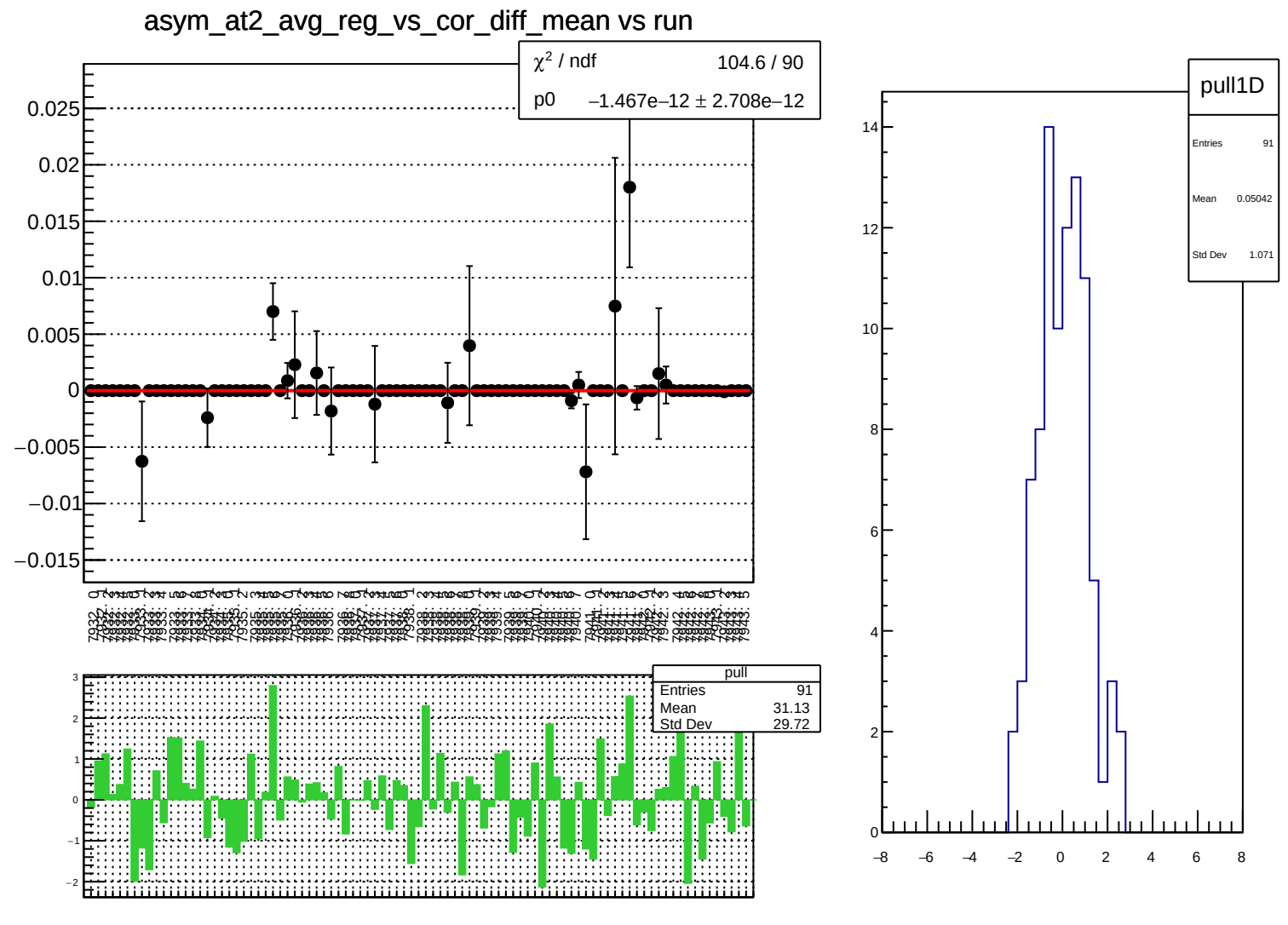

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 120.4 / 90
p0 −4448 ± 1.335e+04
pull
Entries 91
Mean −308.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.003626
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

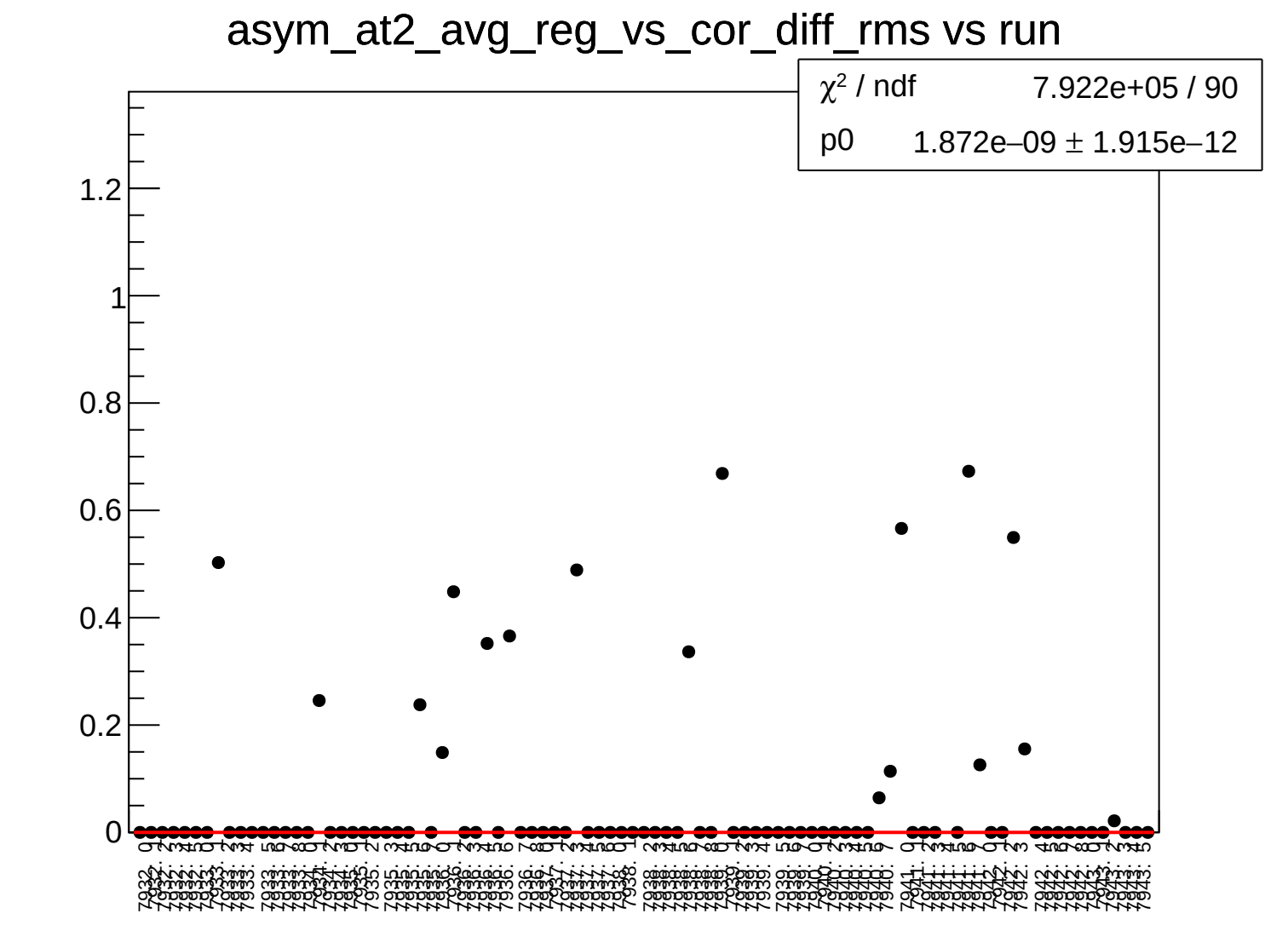

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3182 / 90
p0 1.247e+04 ± 9.439
14500
14000
13500
13000
12500
12000
11500
11000

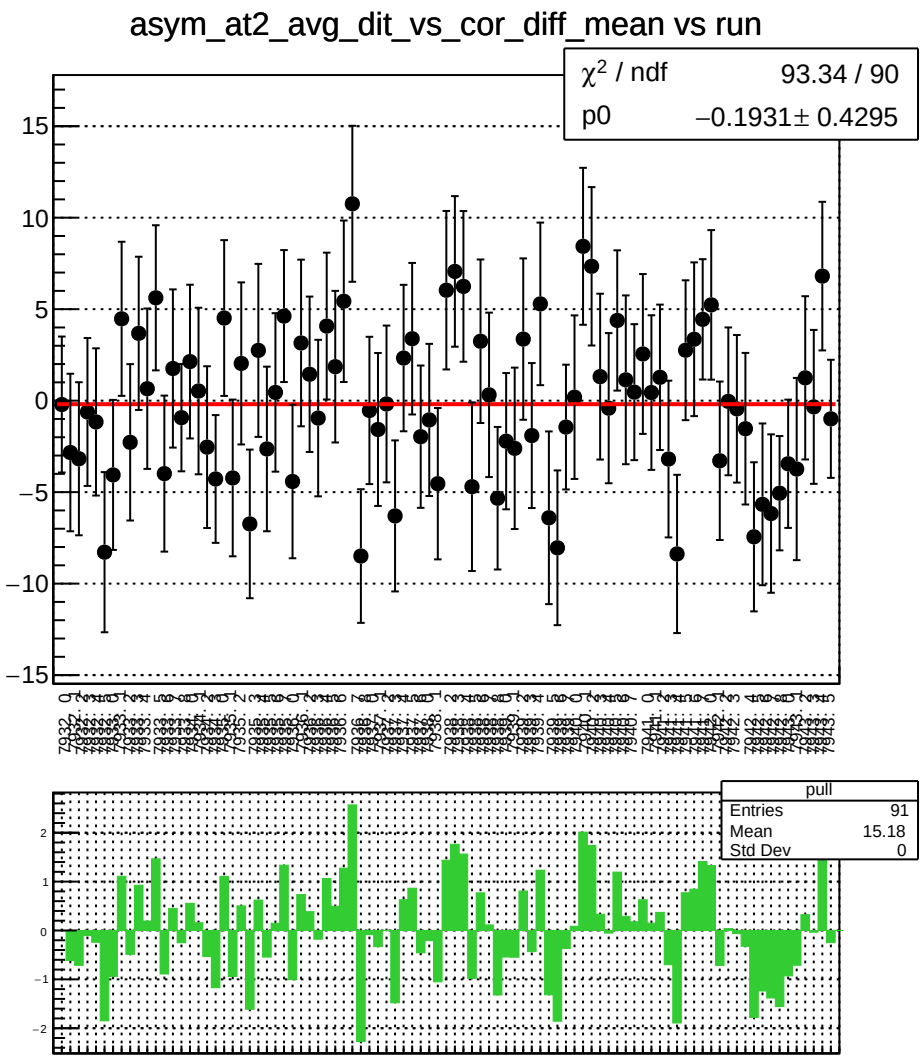

asym_at2_avg_mean vs run
×10^3
χ² / ndf 120.2 / 90
p0 3021± 1.336e+04
400
200
0
−200
−400
pull
Entries 91
Mean −180.2
Std Dev 0
2
1
0
−1
−2
−3

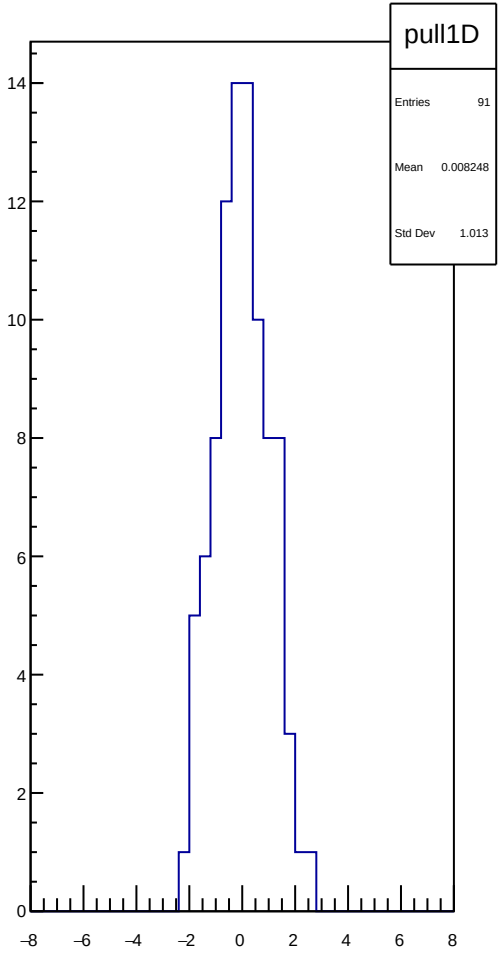

pull1D
Entries 91
Mean 0.003563
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

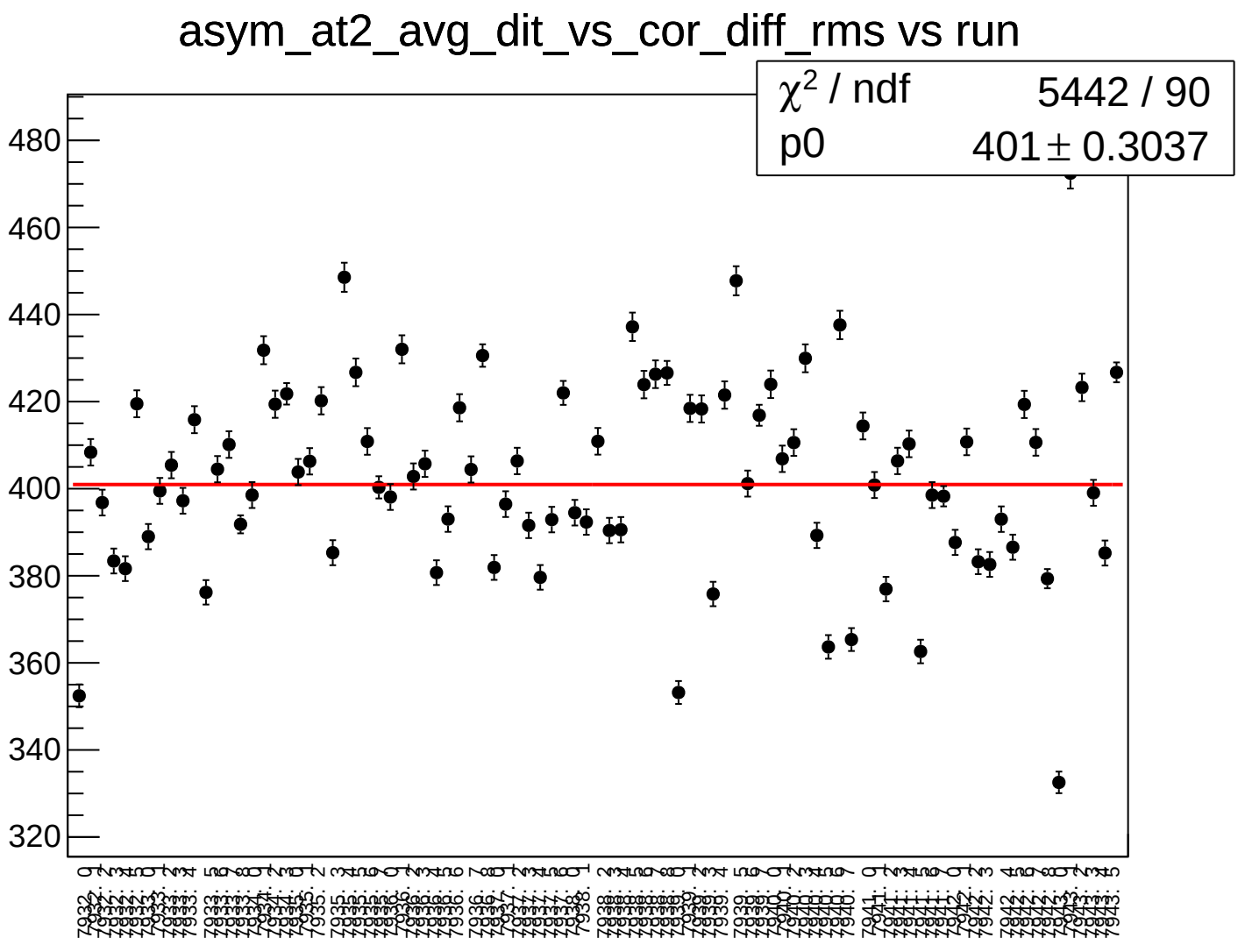

asym_at2_avg_rms vs run
χ² / ndf 2965 / 90
p0 1.248e+04 ± 9.449
14500
14000
13500
13000
12500
12000
11500
11000

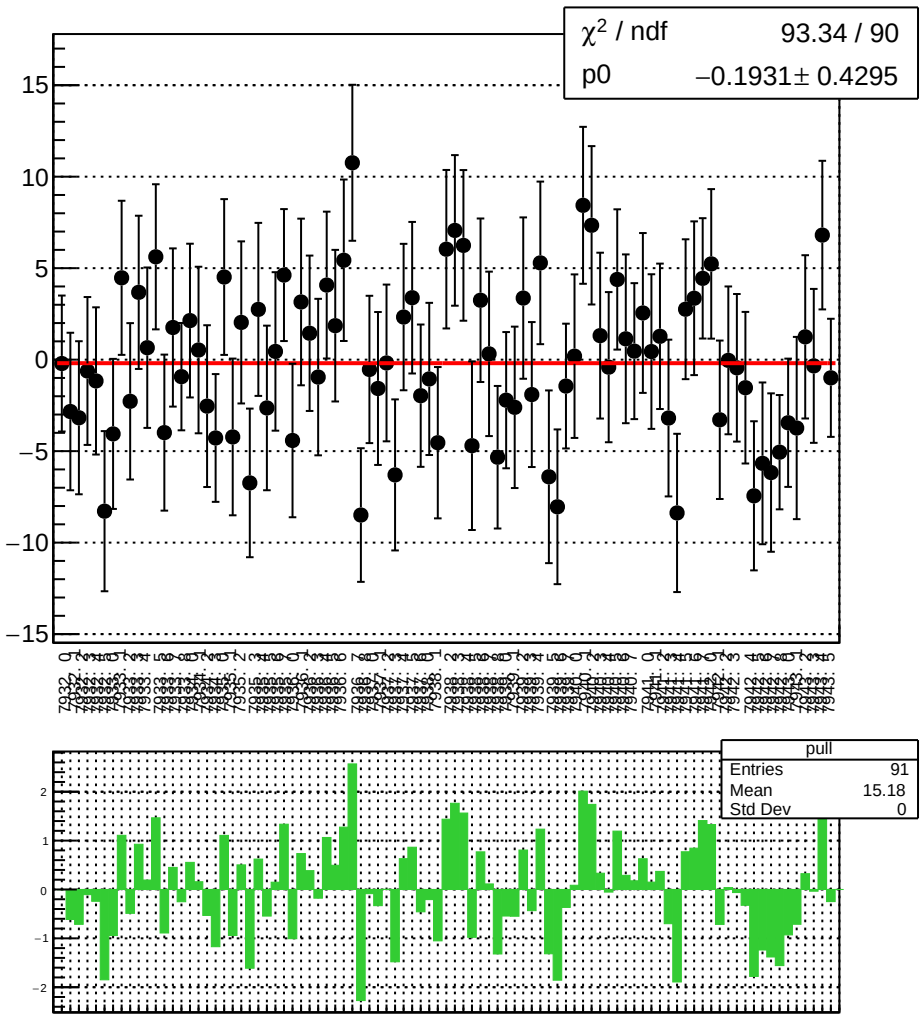

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 90
p0 −1.467e−12 ± 2.708e−12
pull
Entries 91
Mean 31.13
Std Dev 29.72
pull1D
Entries 91
Mean 0.05042
Std Dev 1.071

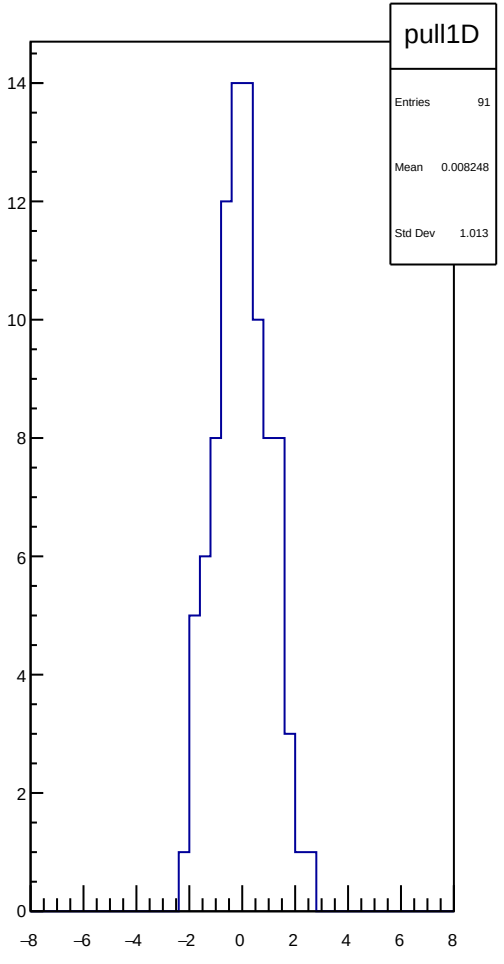

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.922e+05 / 90
p0 1.872e−09 ± 1.915e−12
1.2
1
0.8
0.6
0.4
0.2
0

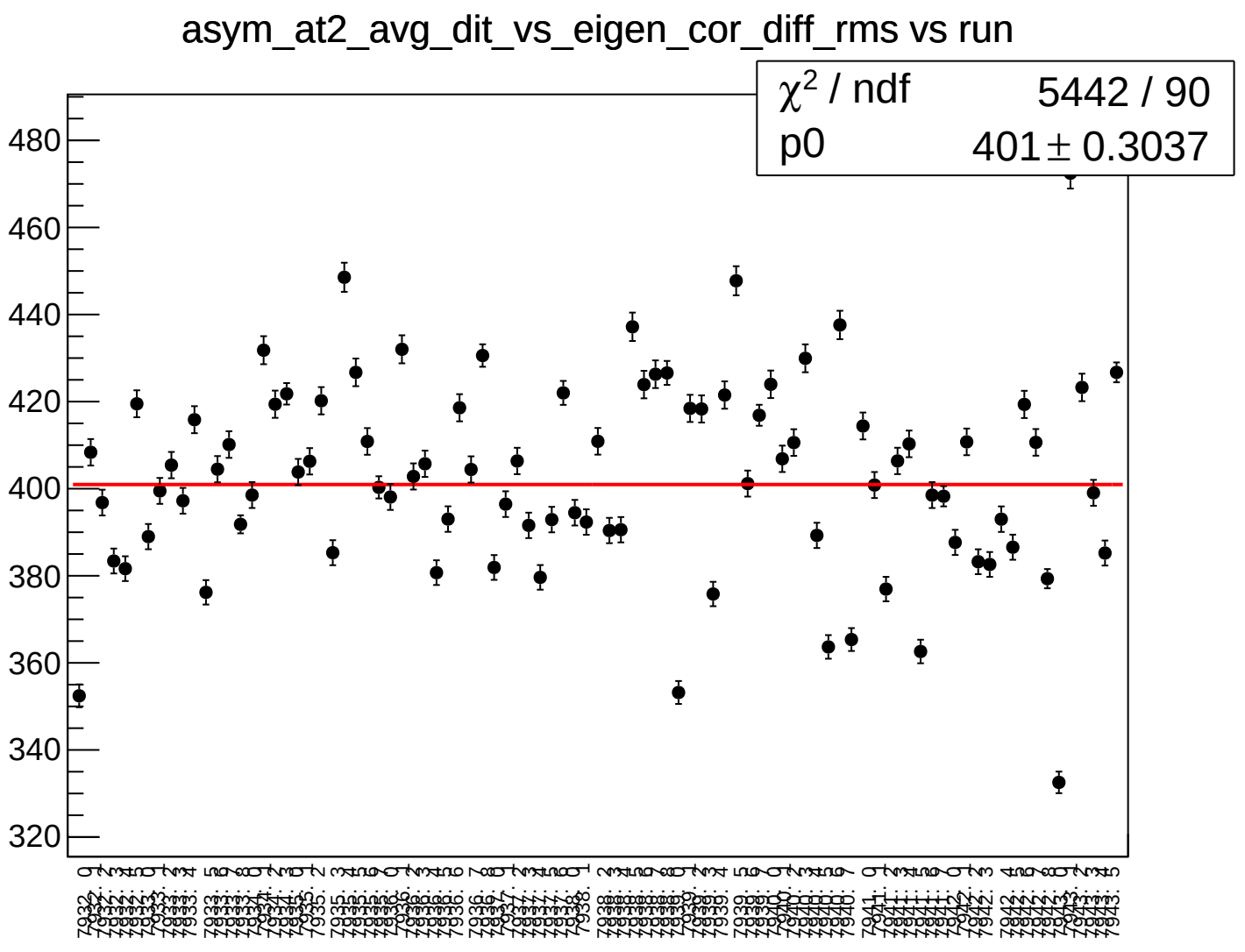

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.34 / 90
p0 −0.1931± 0.4295
pull
Entries 91
Mean 15.18
Std Dev 0

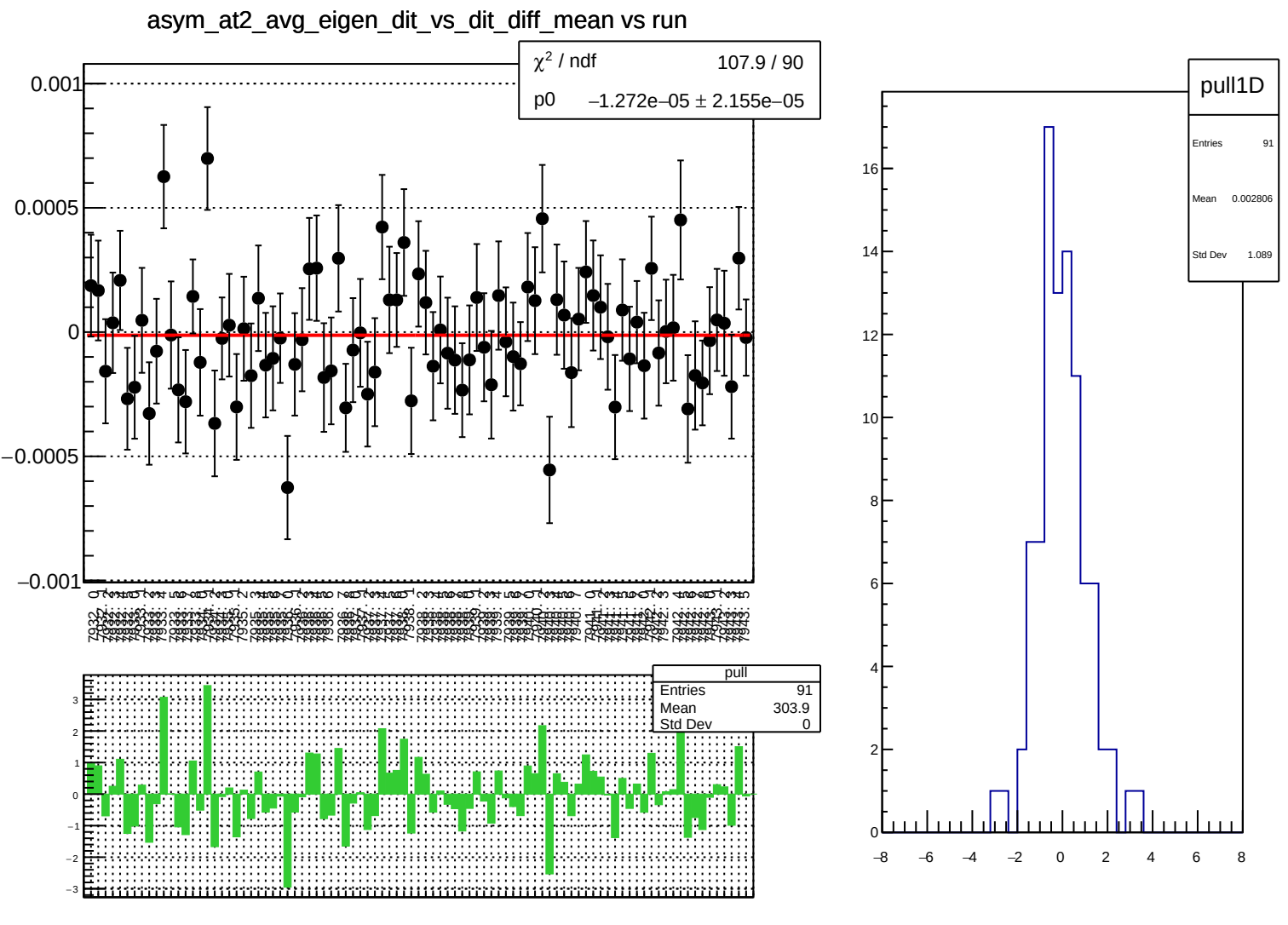

pull1D
Entries 91
Mean 0.008248
Std Dev 1.013

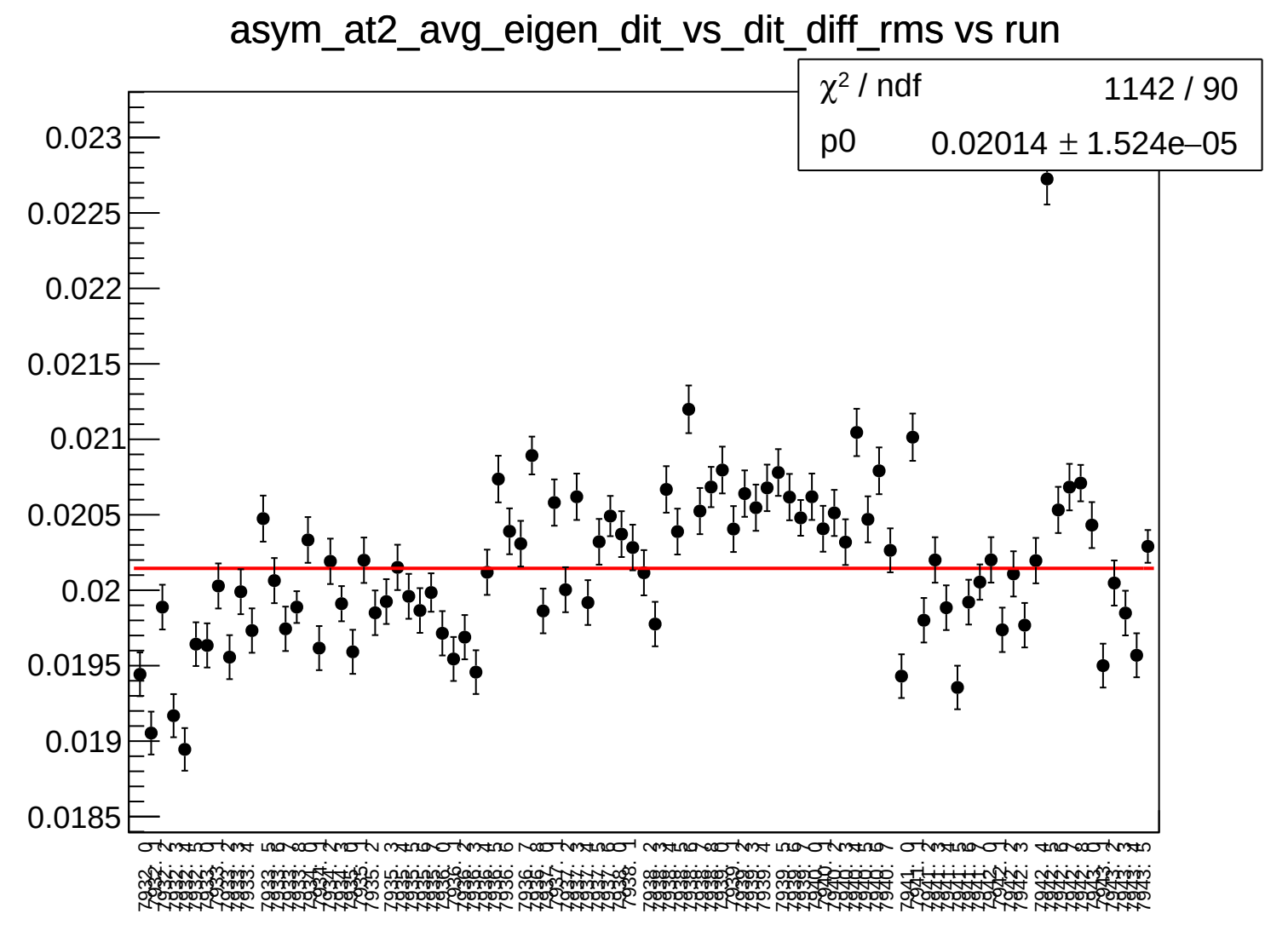

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5442 / 90
p0 401 ± 0.3037
480
460
440
420
400
380
360
340
320

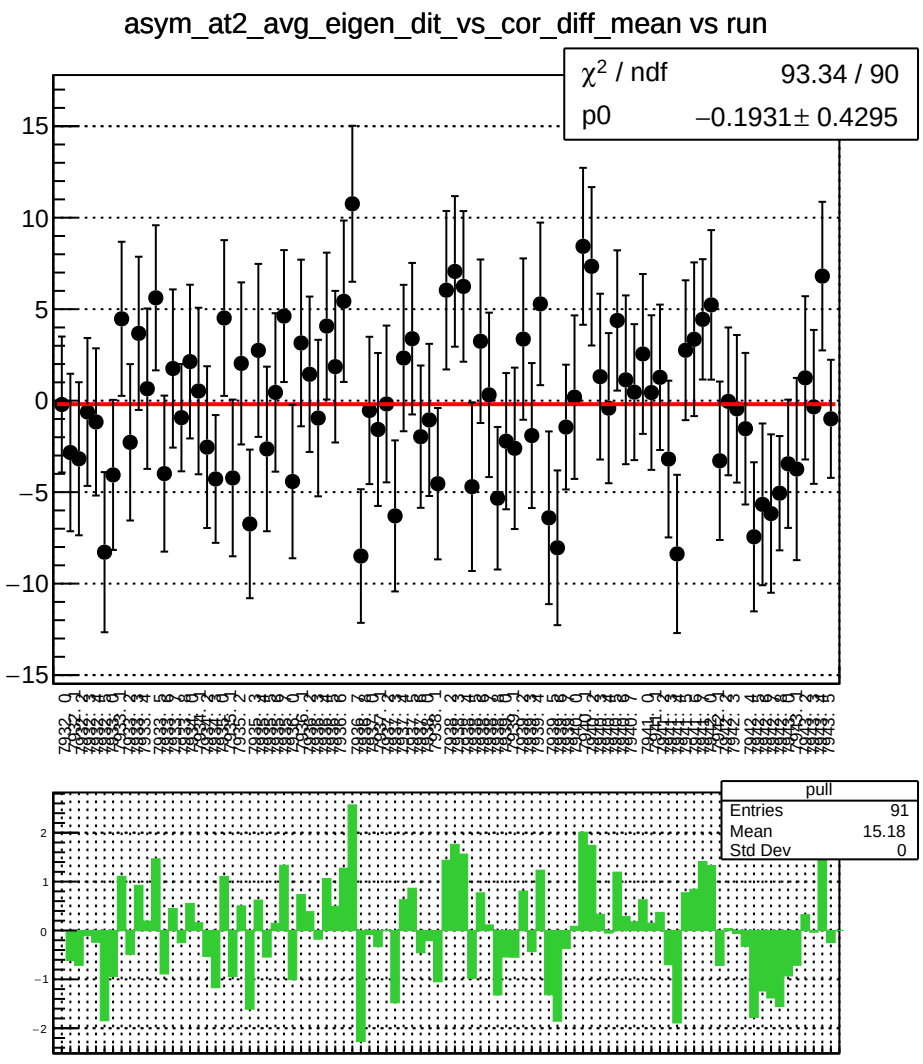

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.34 / 90
p0 −0.1931± 0.4295
pull
Entries 91
Mean 15.18
Std Dev 0

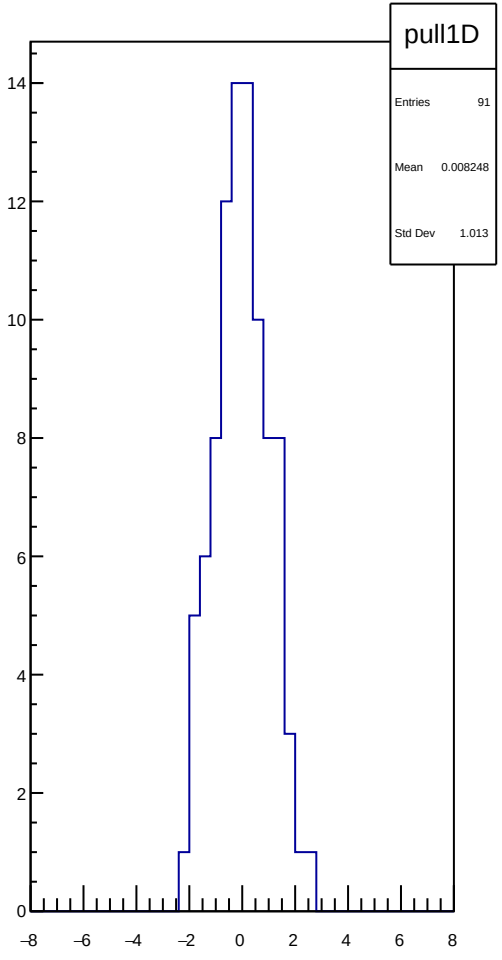

pull1D
Entries 91
Mean 0.008248
Std Dev 1.013

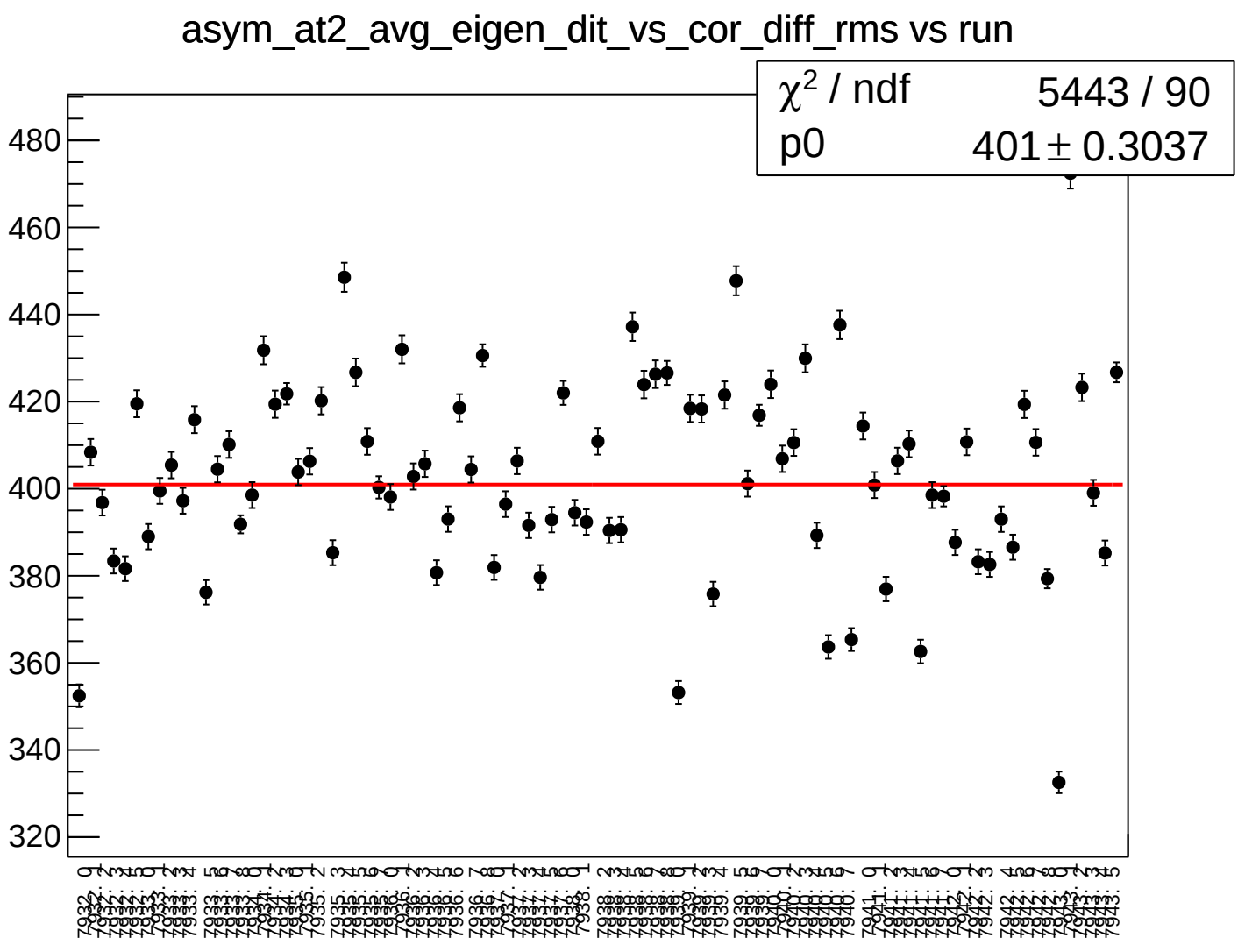

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5442 / 90
p0 401 ± 0.3037
480
460
440
420
400
380
360
340
320

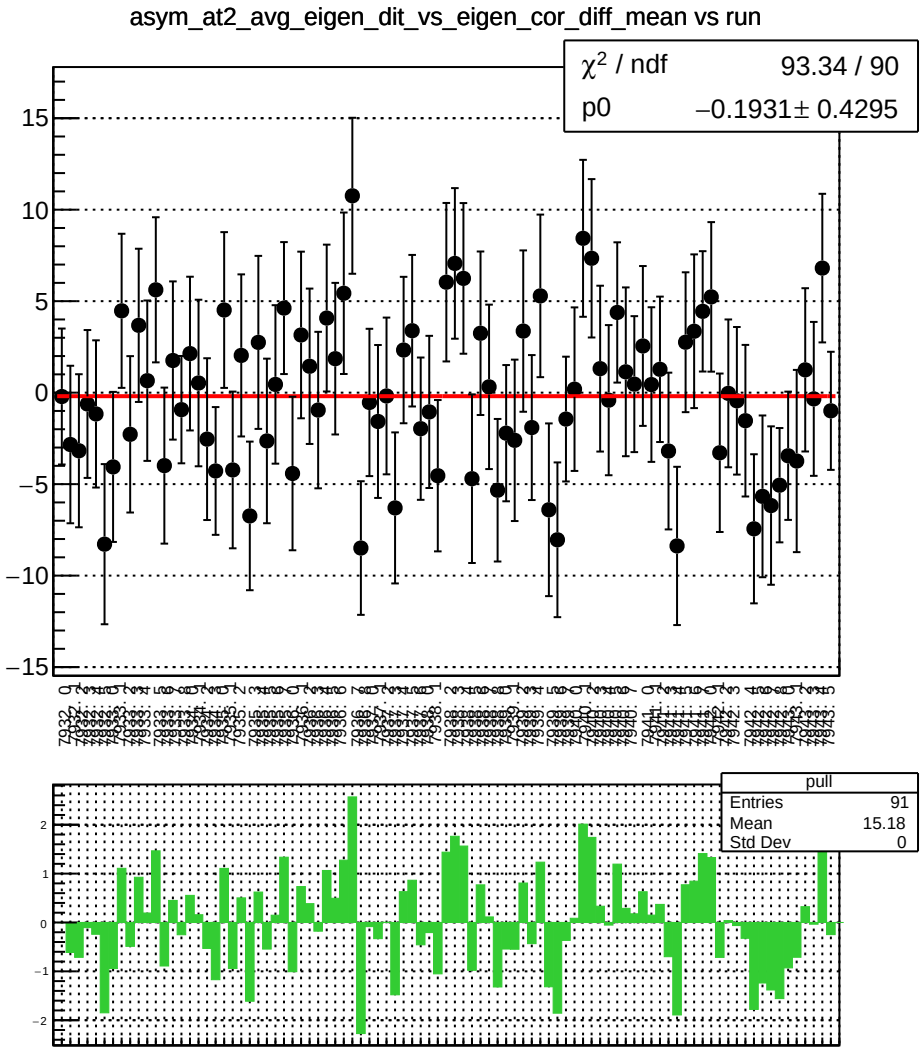

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 107.9 / 90
p0 −1.272e−05 ± 2.155e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 303.9
Std Dev 0
pull1D
Entries 91
Mean 0.002806
Std Dev 1.089

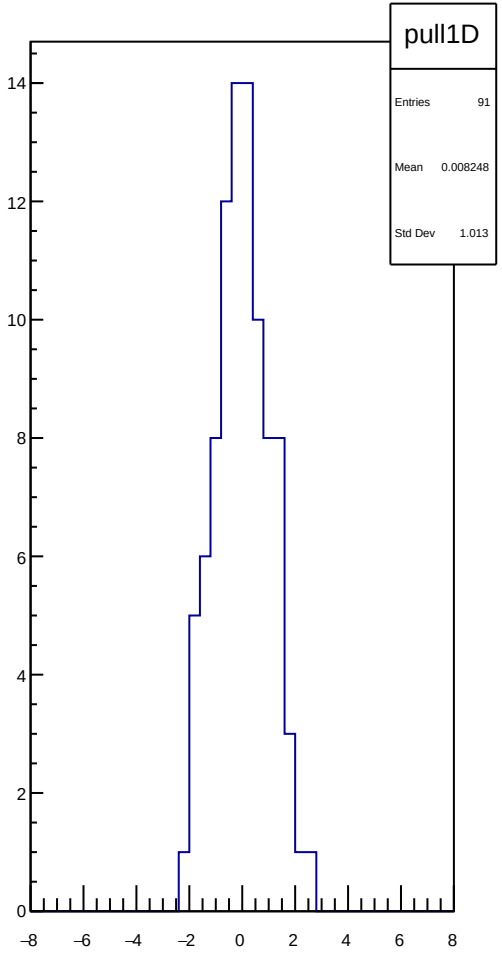

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1142 / 90
p0 0.02014 ± 1.524e−05
0.023
0.0225
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185

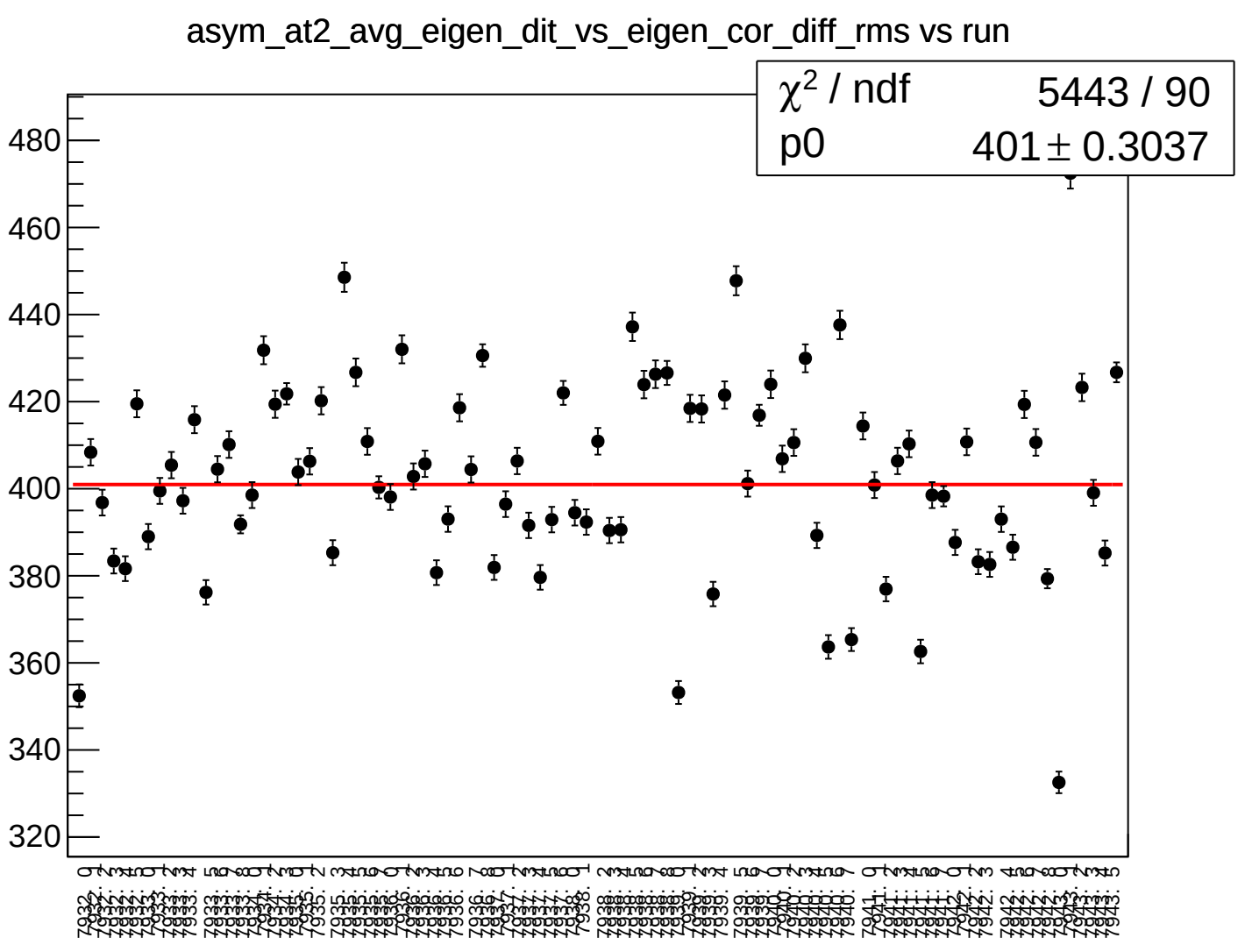

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.34 / 90
p0 −0.1931± 0.4295
pull
Entries 91
Mean 15.18
Std Dev 0

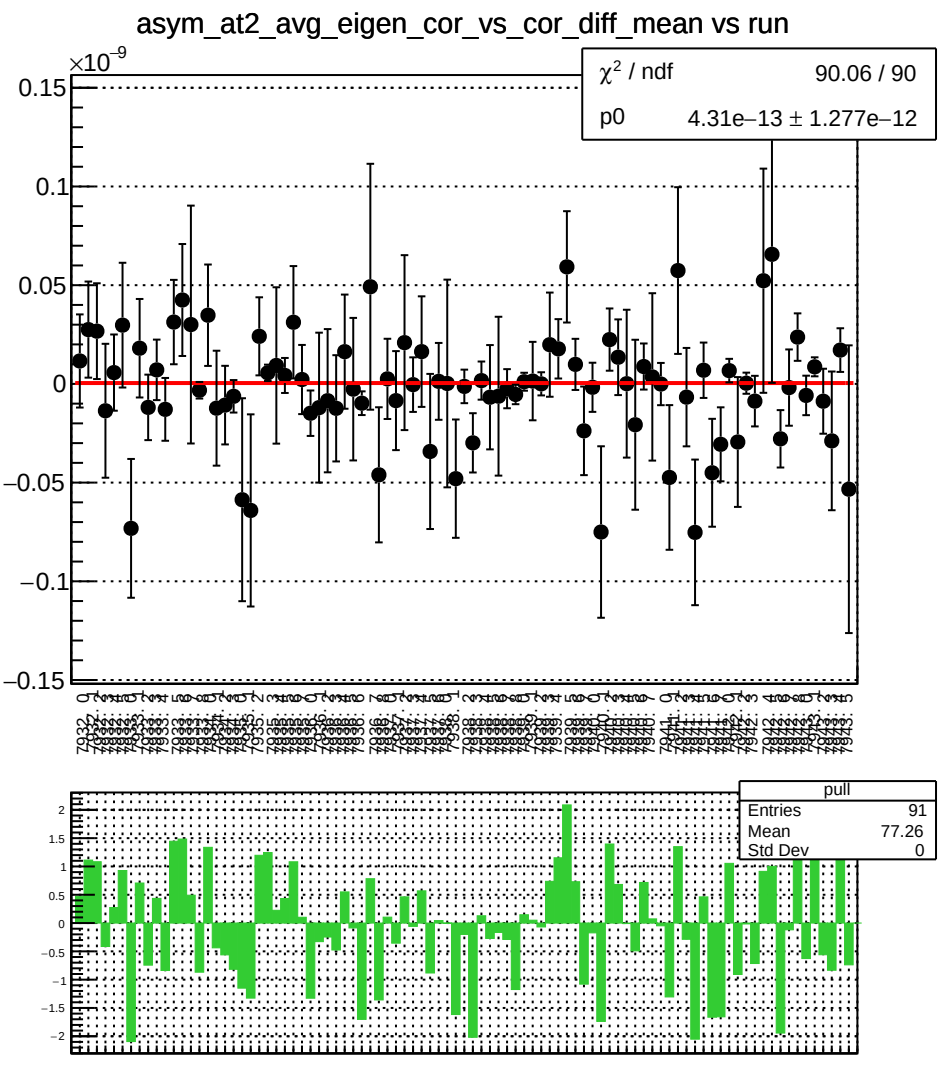

pull1D
Entries 91
Mean 0.008248
Std Dev 1.013

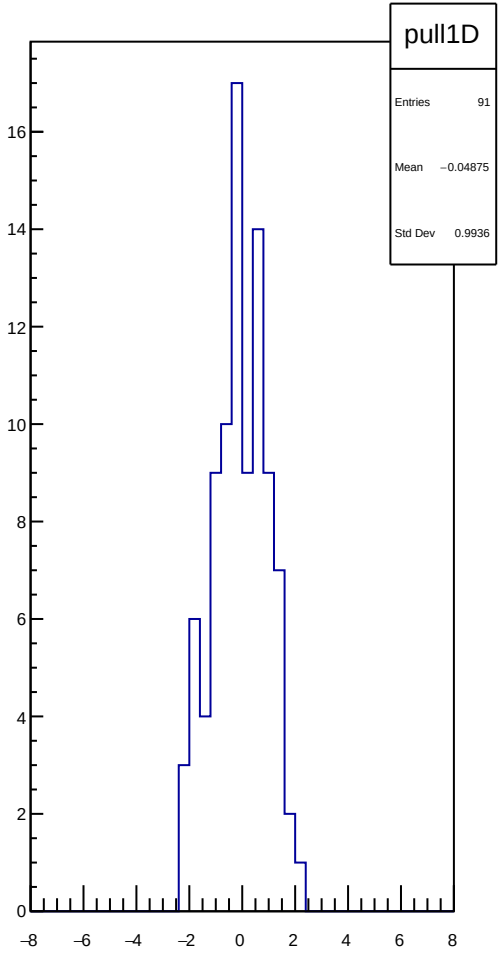

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5443 / 90
p0 401 ± 0.3037
480
460
440
420
400
380
360
340
320

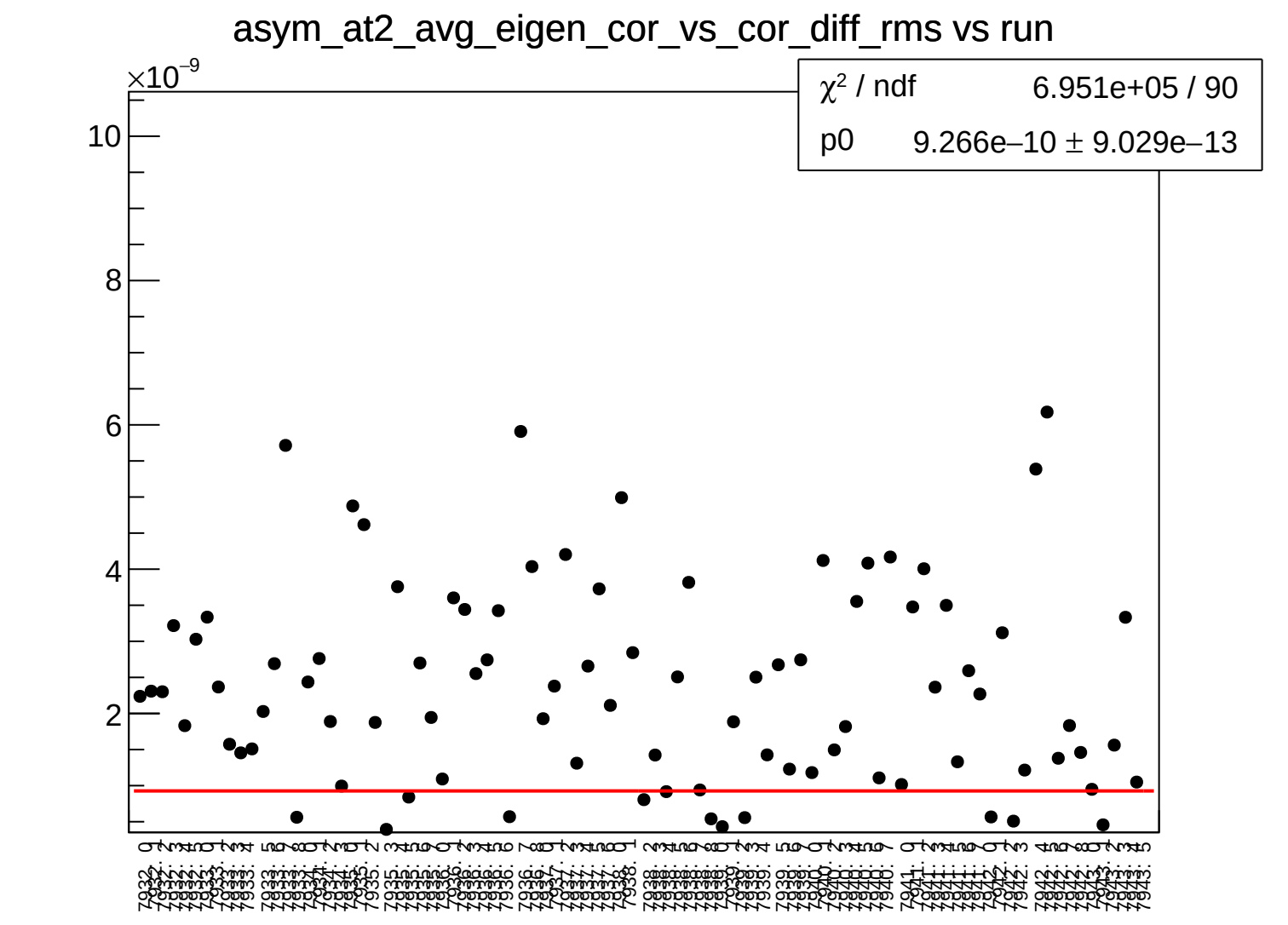

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.34 / 90
p0 −0.1931± 0.4295
pull
Entries 91
Mean 15.18
Std Dev 0

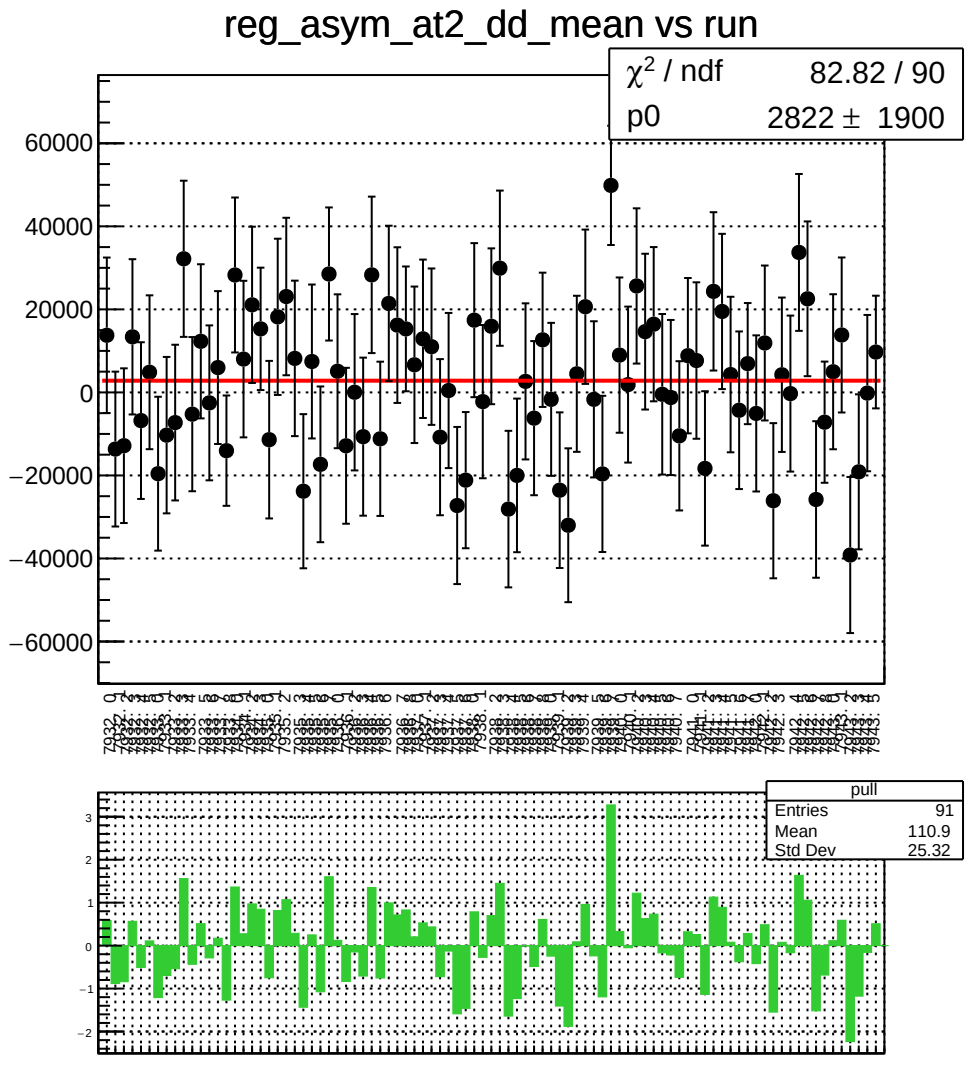

pull1D
Entries 91
Mean 0.008248
Std Dev 1.013

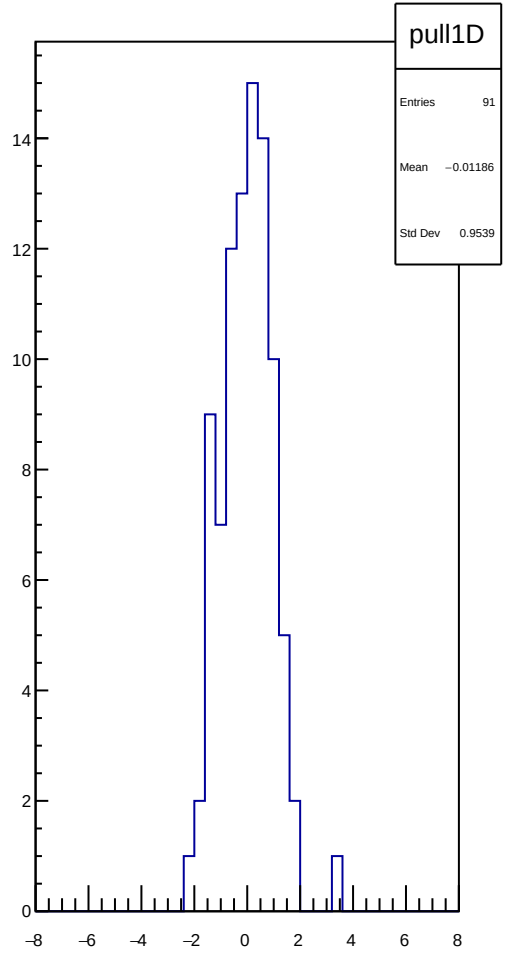

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5443 / 90
p0 401 ± 0.3037
480
460
440
420
400
380
360
340
320

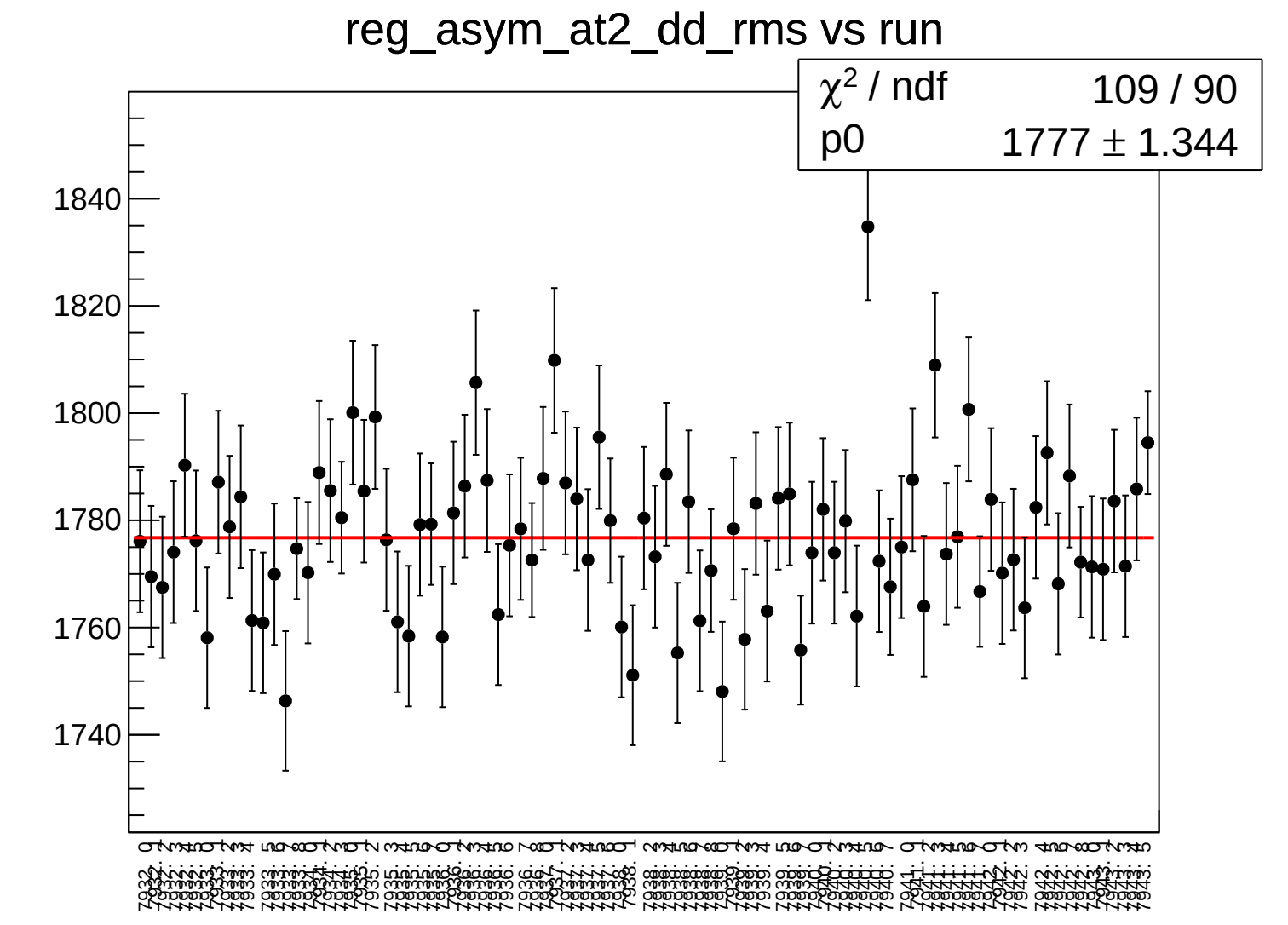

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 90.06 / 90
p0 4.31e−13 ± 1.277e−12
pull
Entries 91
Mean 77.26
Std Dev 0

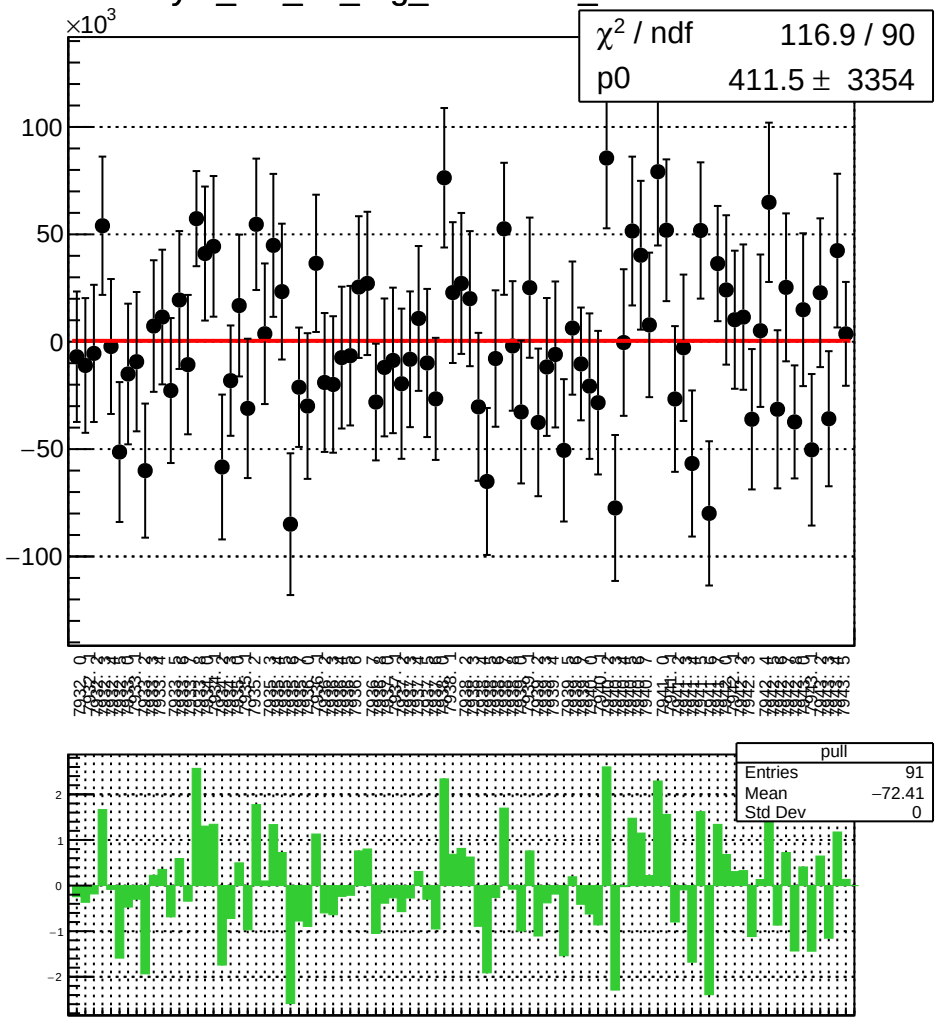

pull1D
Entries 91
Mean −0.04875
Std Dev 0.9936

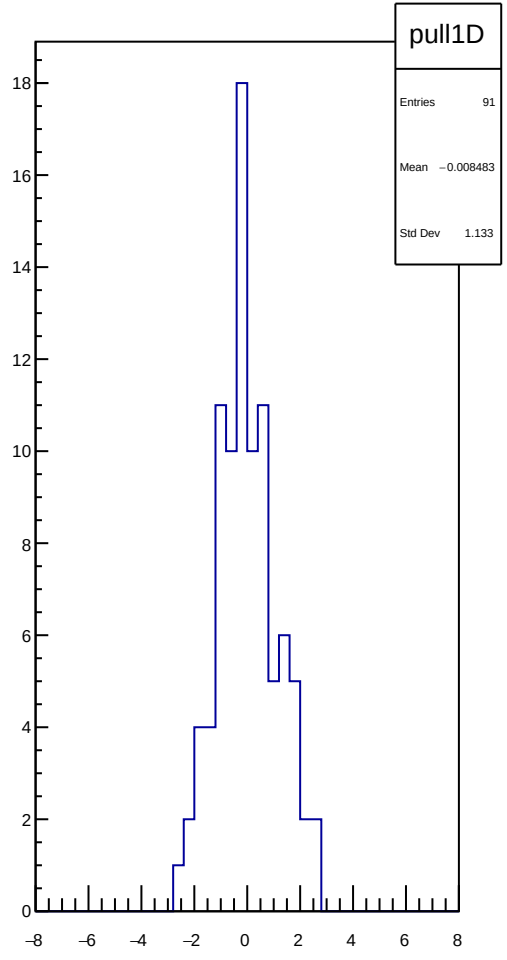

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.951e+05 / 90
p0 9.266e−10 ± 9.029e−13
10
8
6
4
2

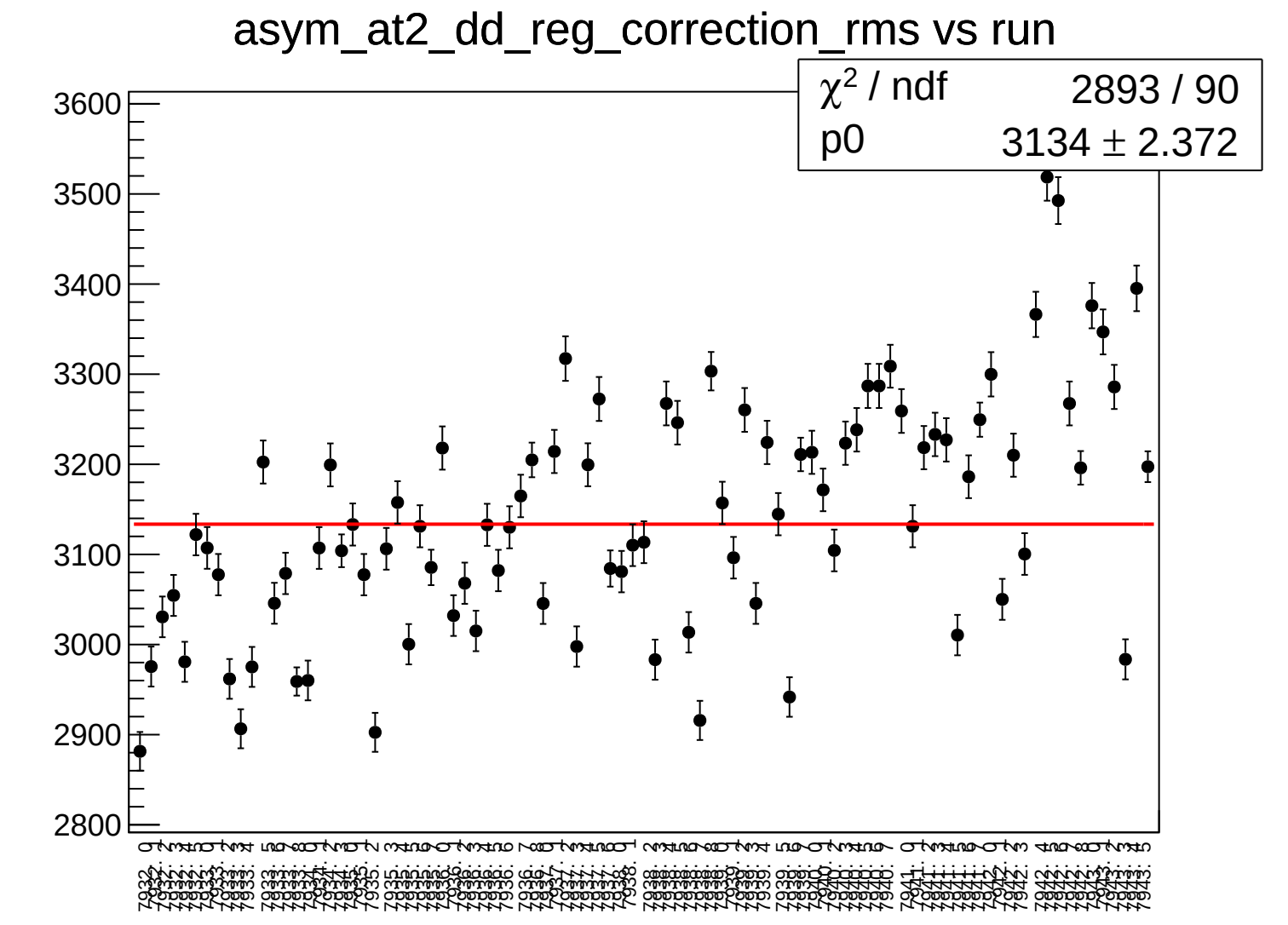

reg_asym_at2_dd_mean vs run
χ² / ndf 82.82 / 90
p0 2822 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 110.9
Std Dev 25.32
3
2
1
0
−1
−2

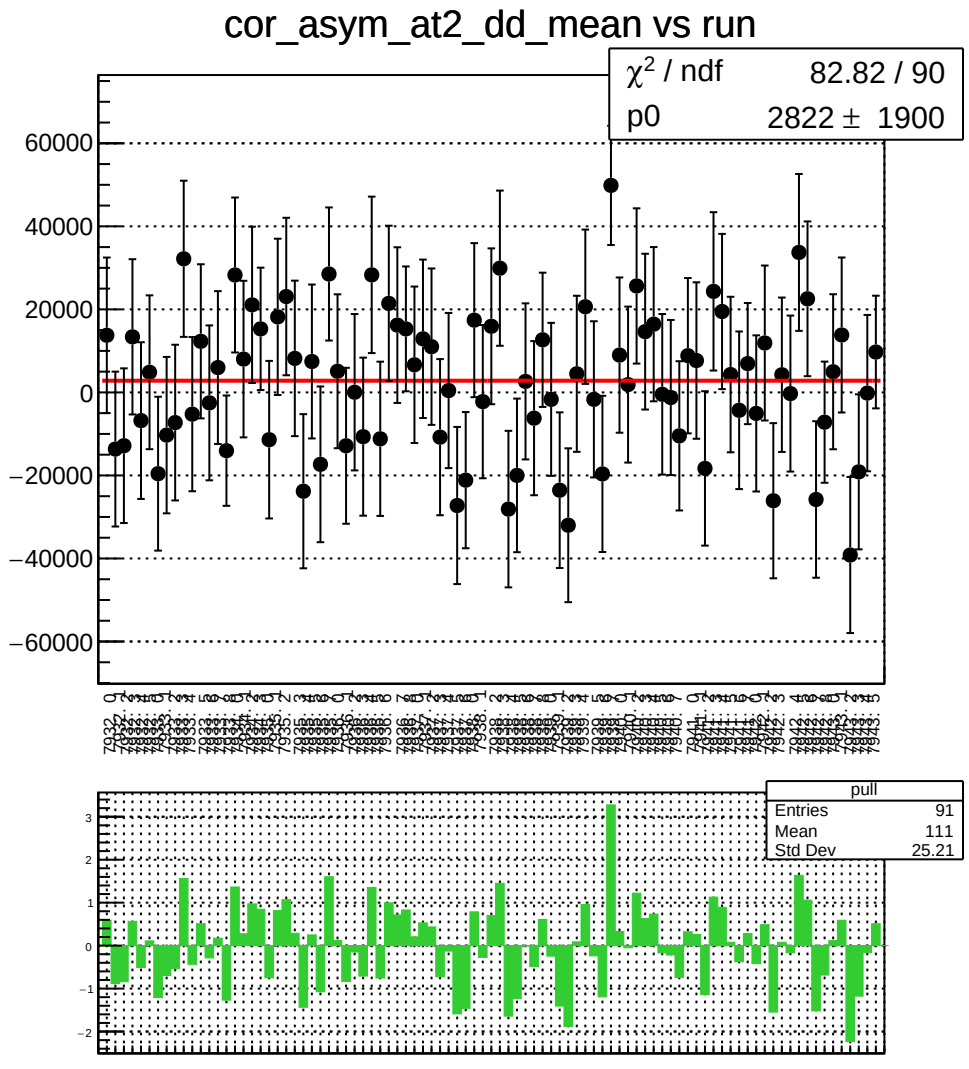

pull1D
Entries 91
Mean −0.01186
Std Dev 0.9539
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

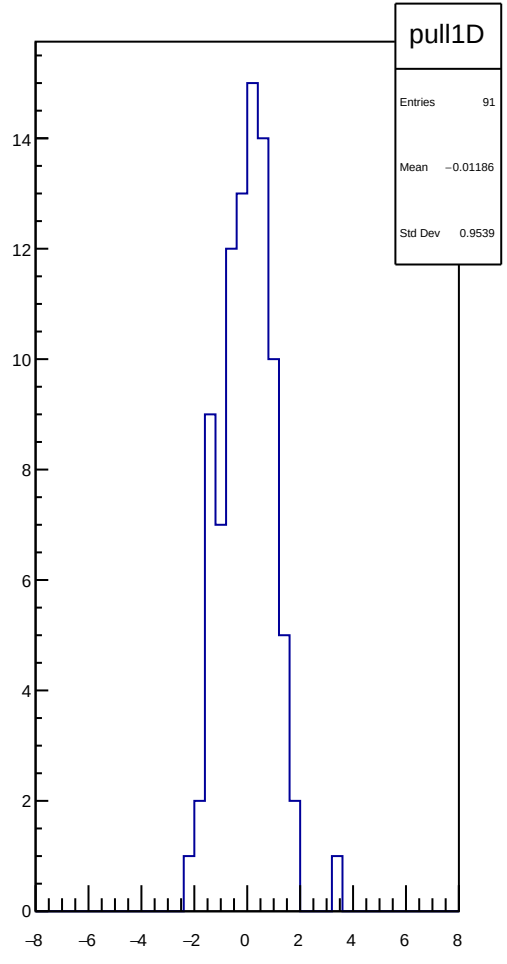

reg_asym_at2_dd_rms vs run
χ^2 / ndf 109 / 90
p0 1777 ± 1.344
1840
1820
1800
1780
1760
1740

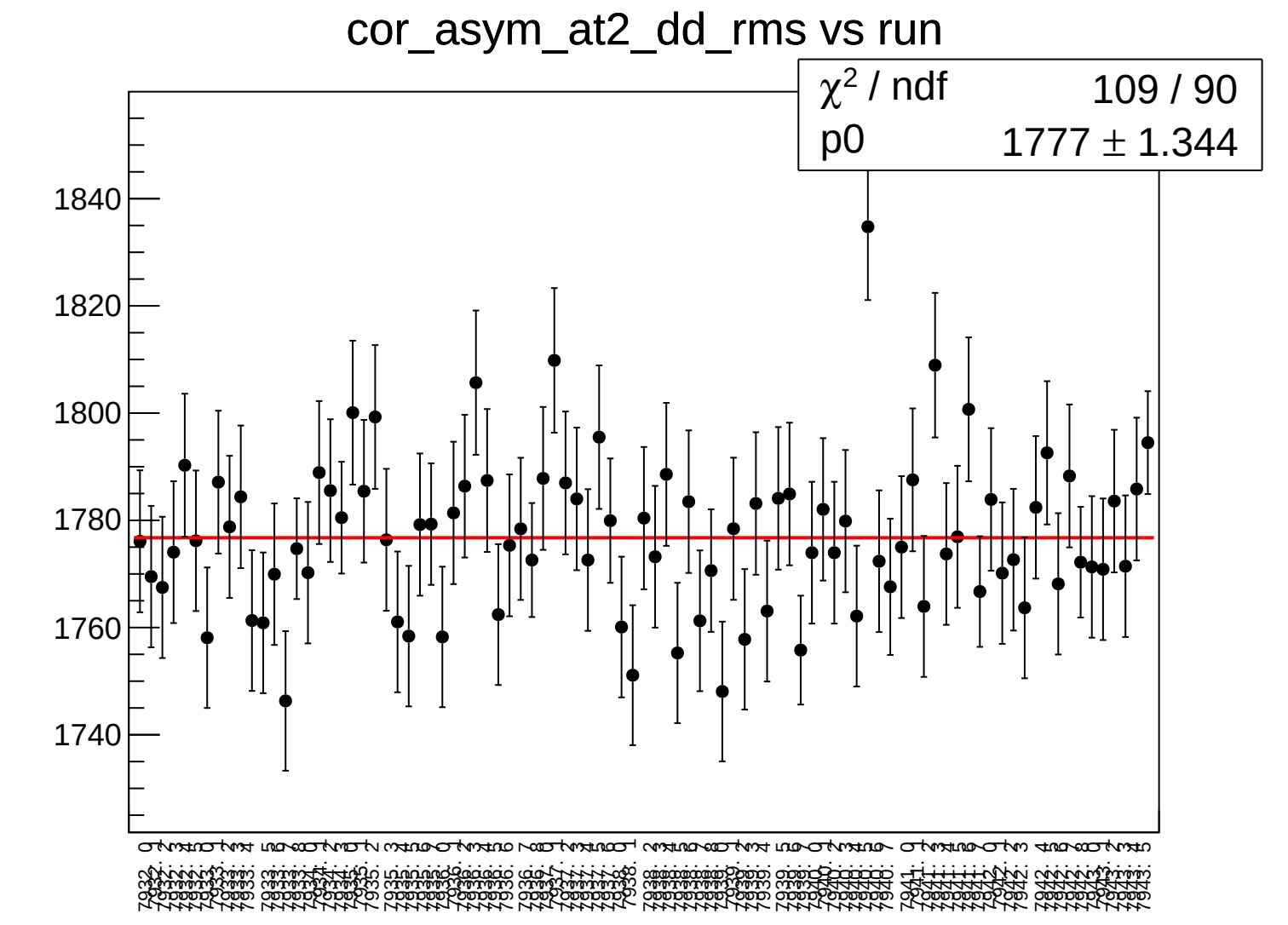

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 116.9 / 90
p0 411.5 ± 3354
100
50
0
−50
−100
pull
Entries 91
Mean −72.41
Std Dev 0
2
1
0
−1
−2

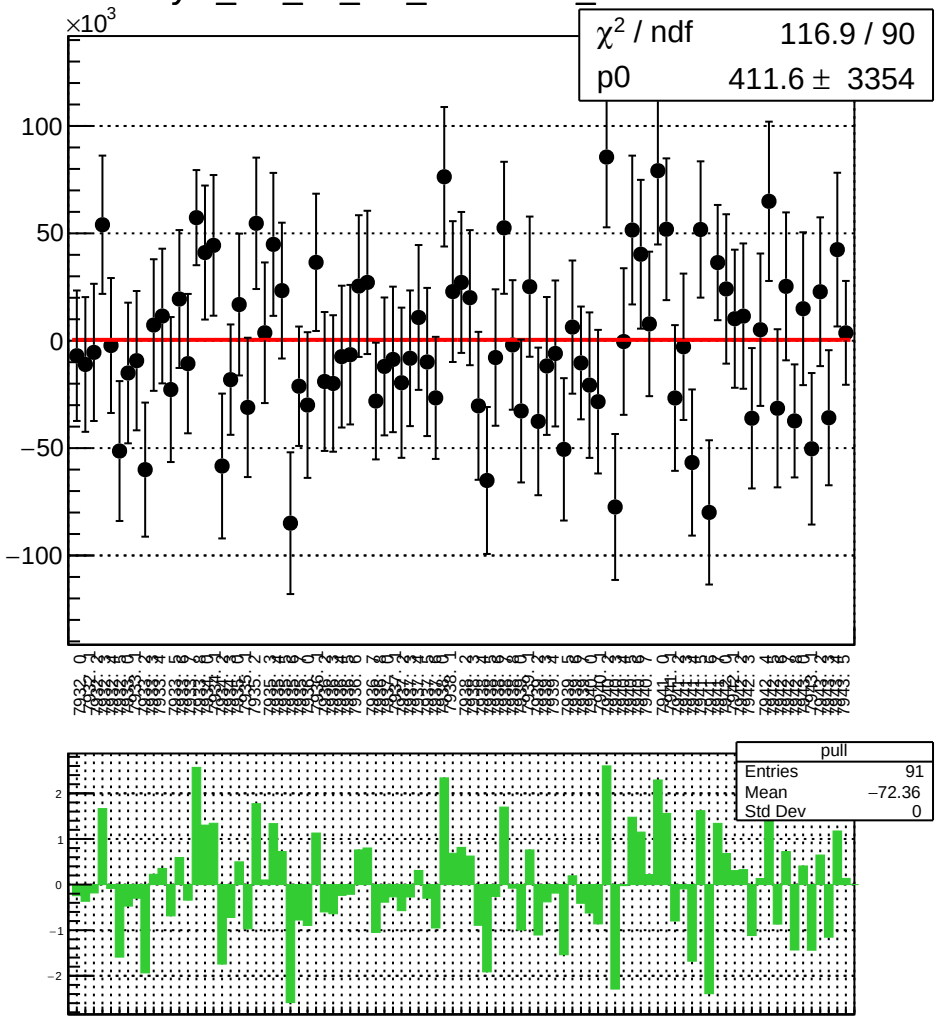

pull1D
Entries 91
Mean −0.008483
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

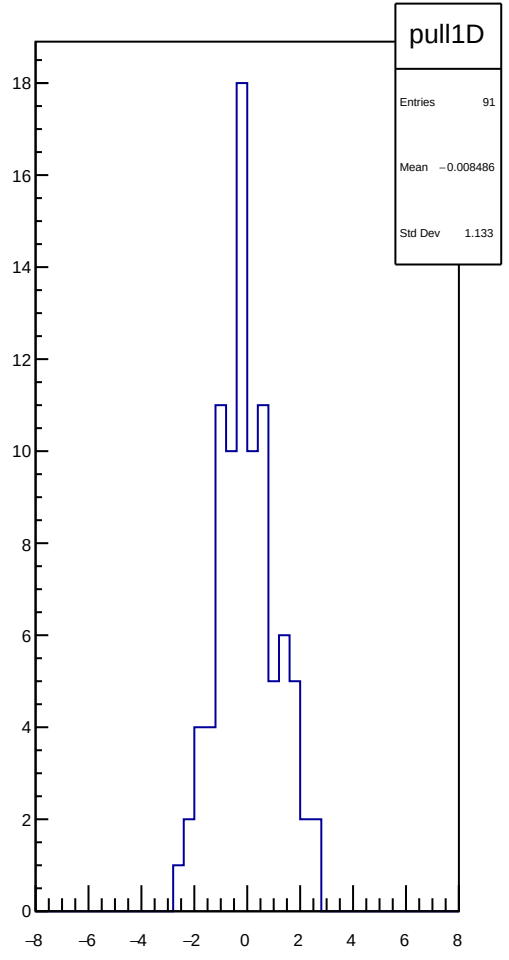

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2893 / 90
p0 3134 ± 2.372
3600
3500
3400
3300
3200
3100
3000
2900
2800


cor_asym_at2_dd_mean vs run
χ² / ndf 82.82 / 90
p0 2822 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 111
Std Dev 25.21
3
2
1
0
−1
−2

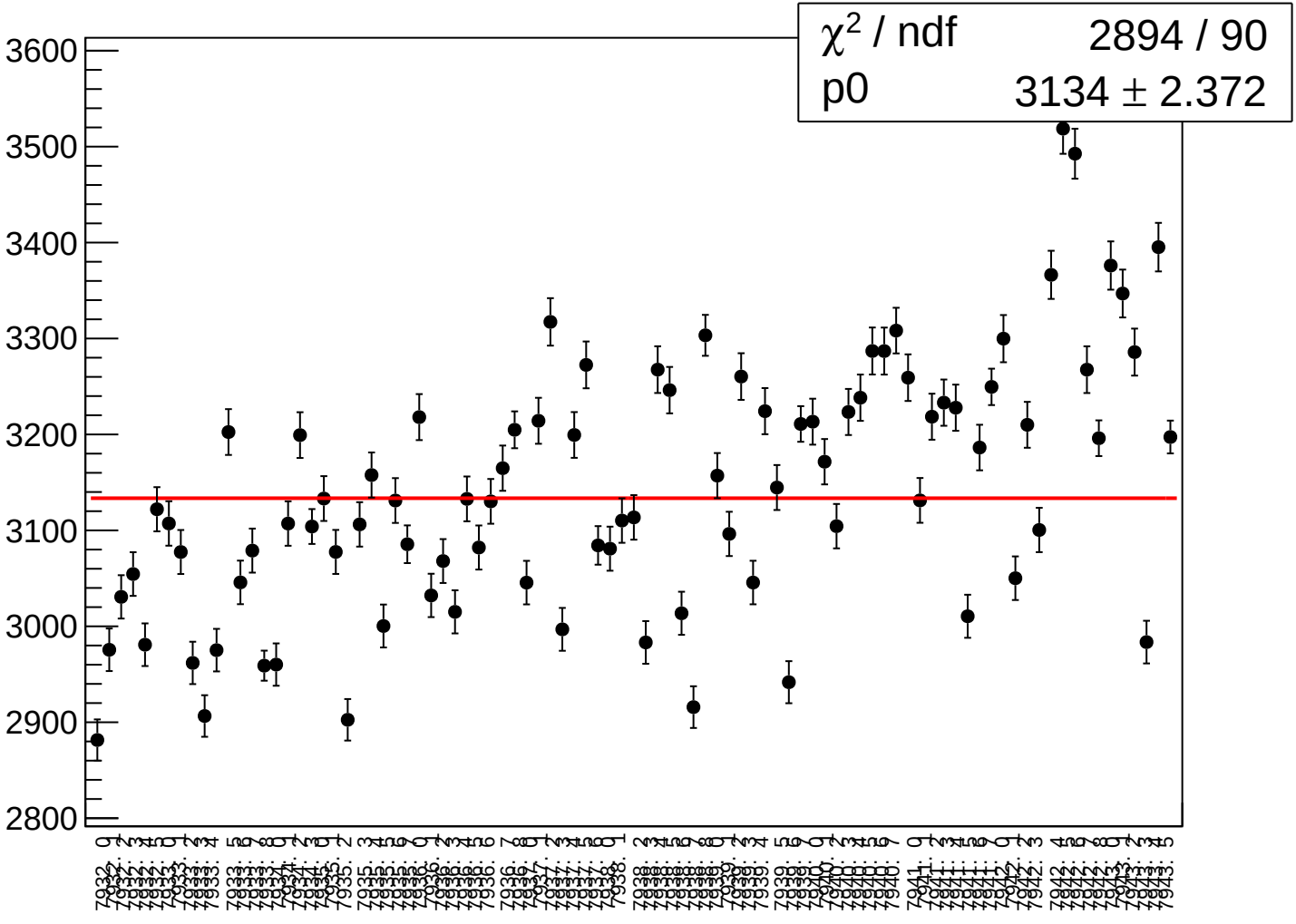

pull1D
Entries 91
Mean −0.01186
Std Dev 0.9539
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

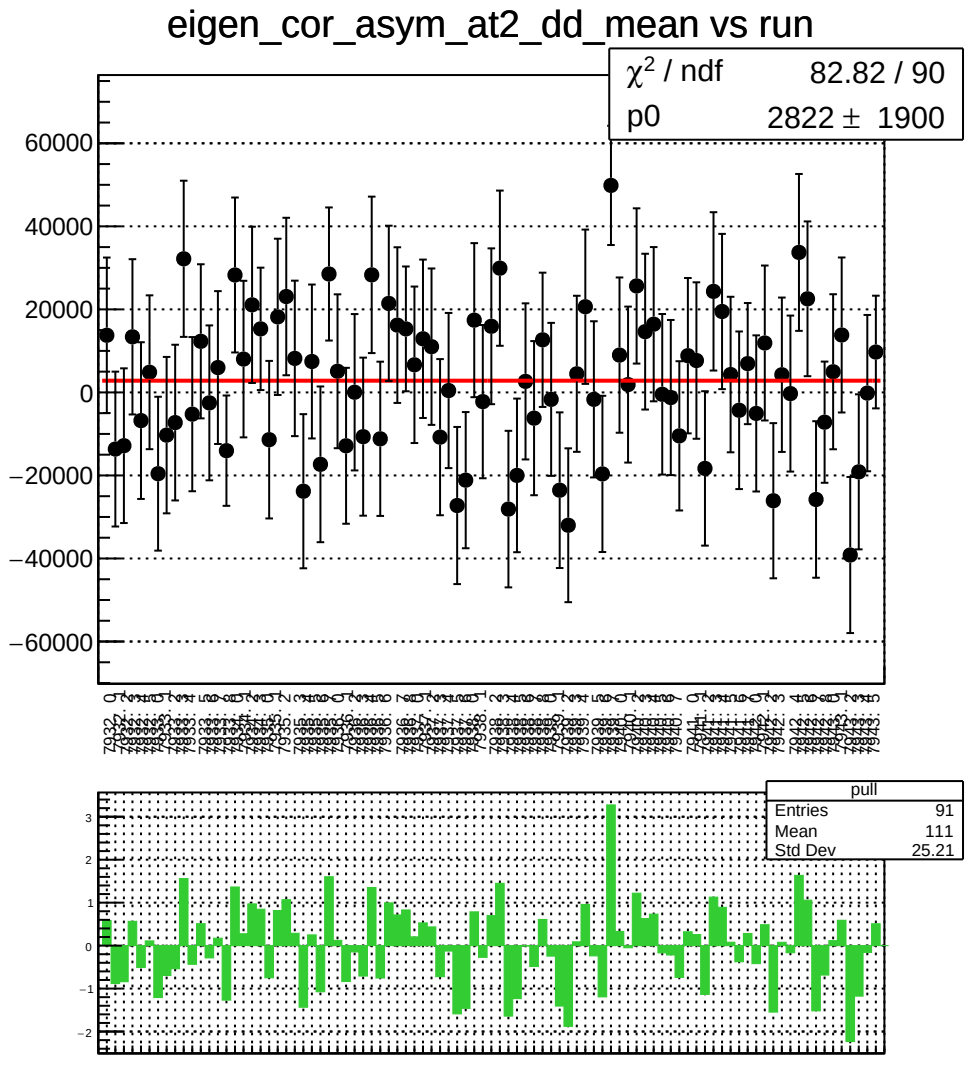

cor_asym_at2_dd_rms vs run
χ^2 / ndf 109 / 90
p0 1777 ± 1.344
1840
1820
1800
1780
1760
1740

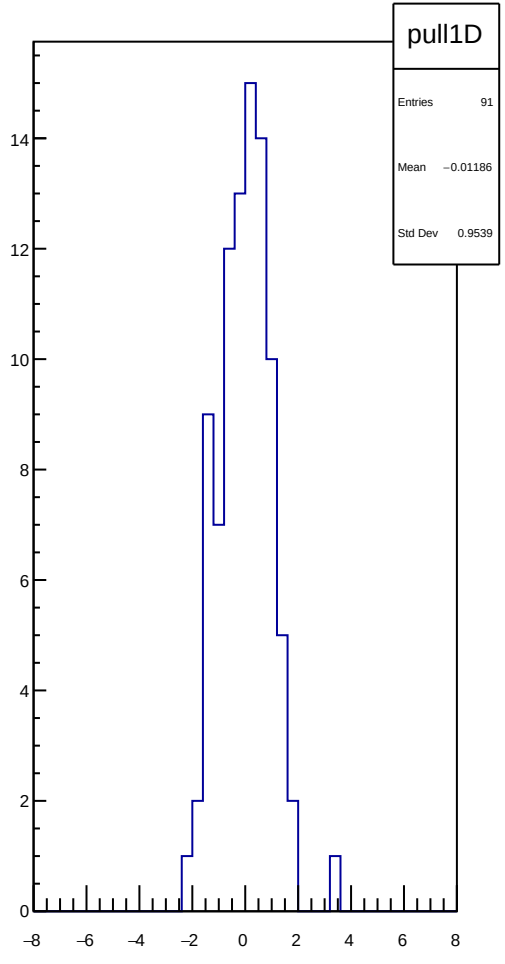

asym_at2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 116.9 / 90
p0 411.6 ± 3354
100
50
0
−50
−100
pull
Entries 91
Mean −72.36
Std Dev 0
2
1
0
−1
−2

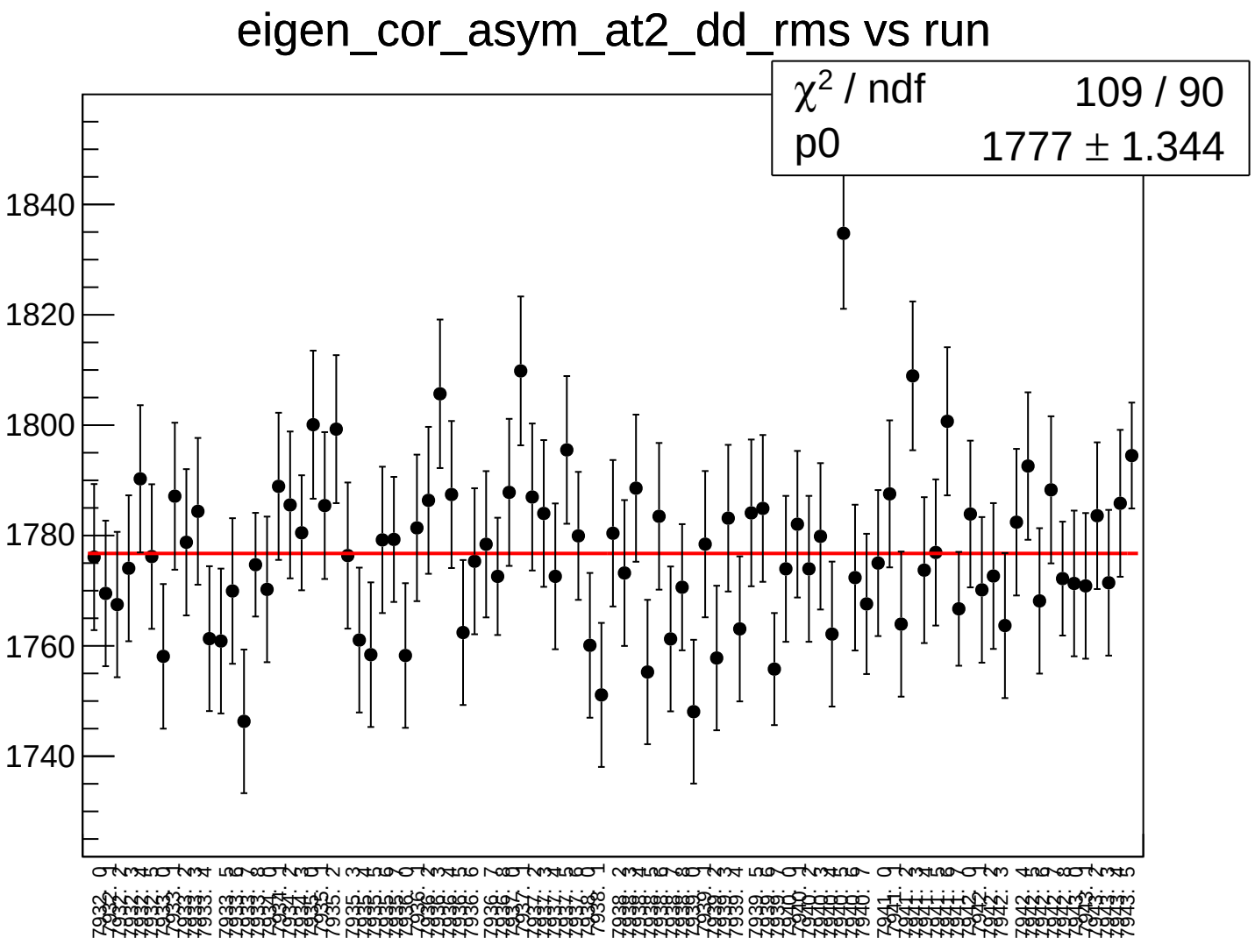

pull1D
Entries 91
Mean −0.008486
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

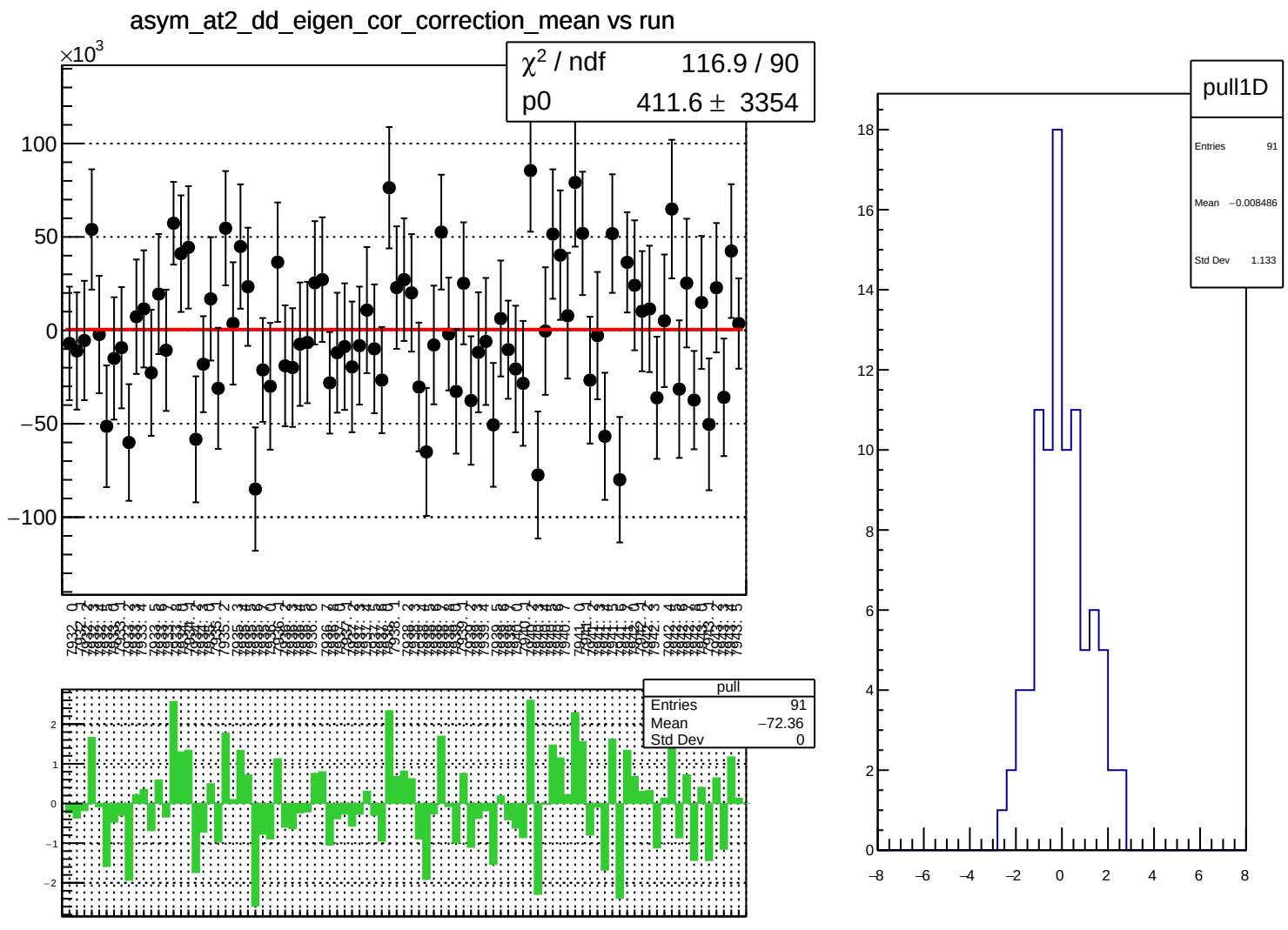
asym_at2_dd_cor_correction_rms vs run

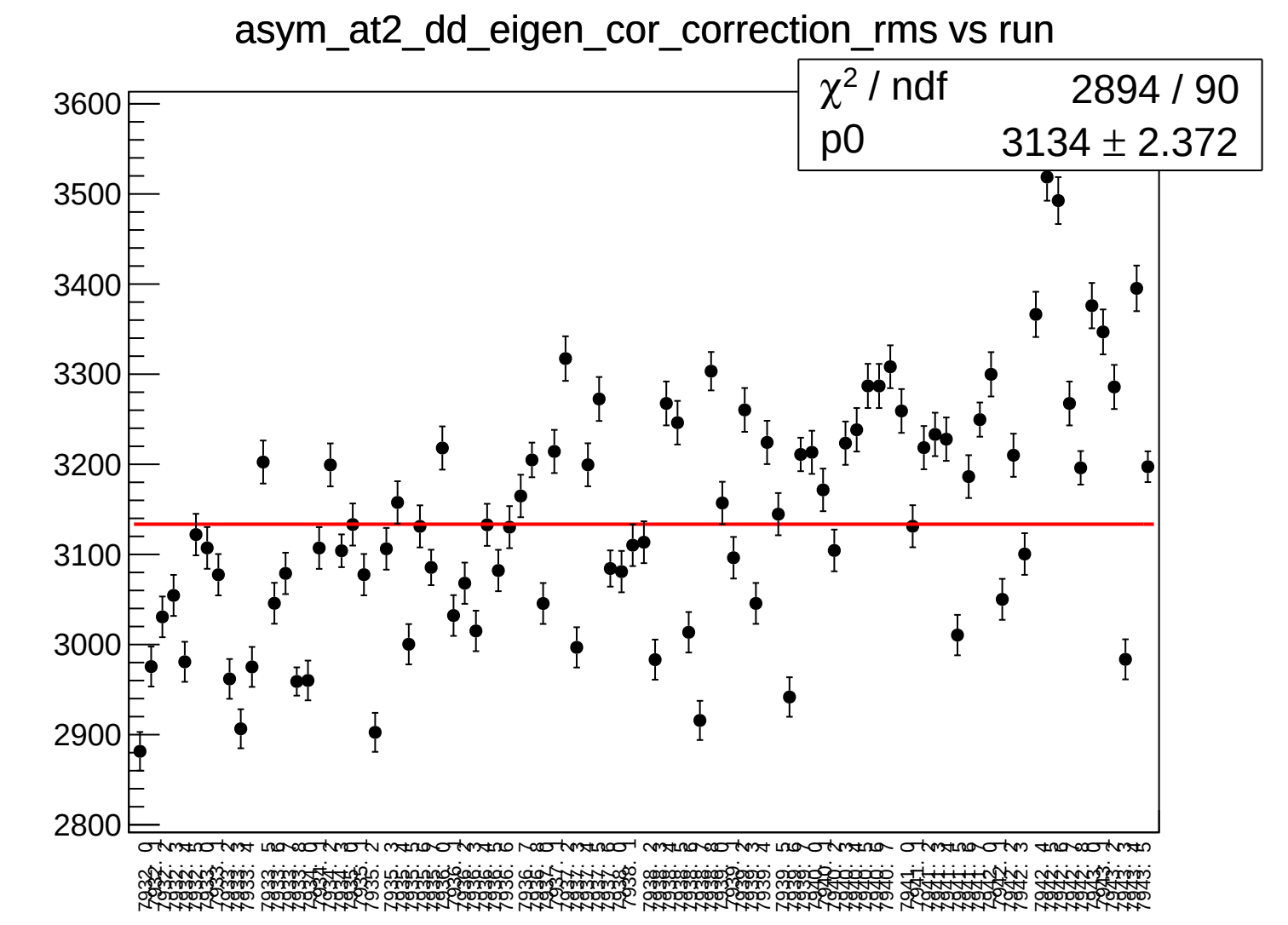


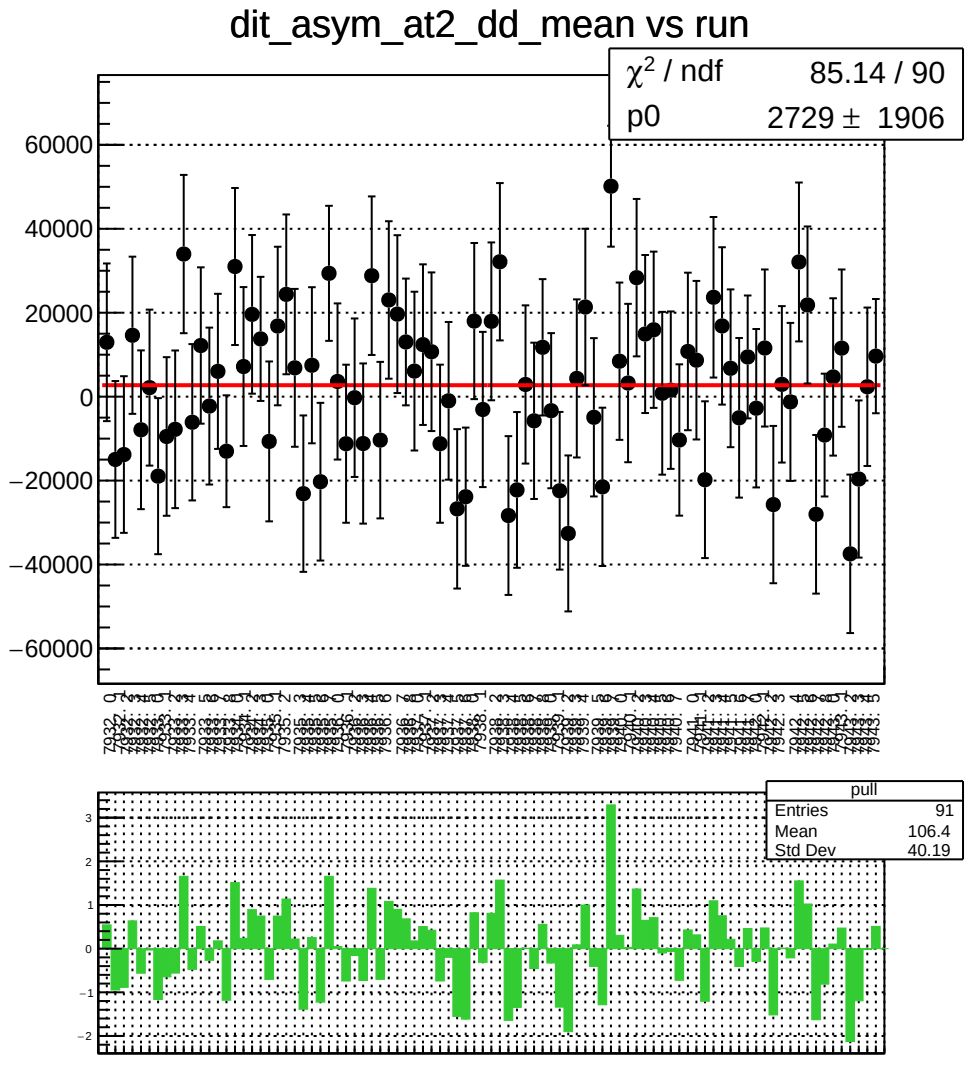

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 82.82 / 90
p0 2822 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 111
Std Dev 25.21
3
2
1
0
−1
−2

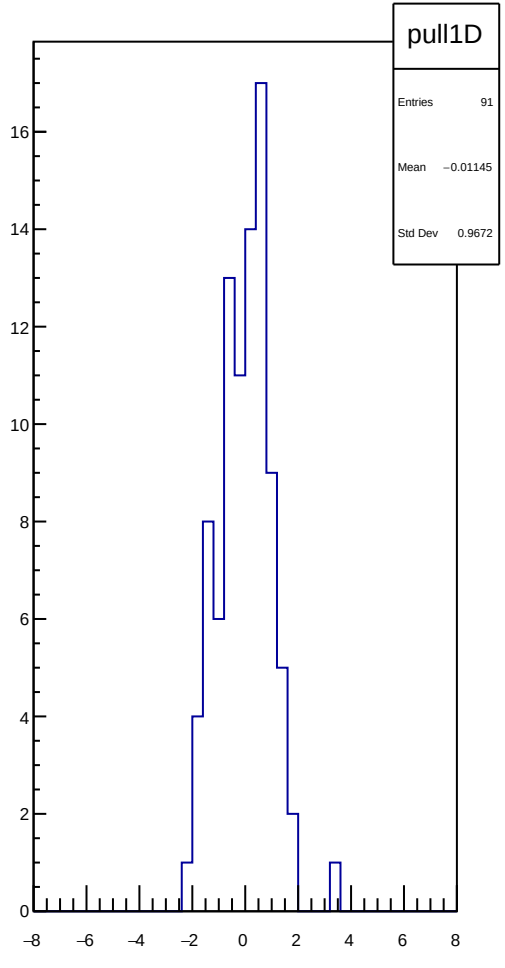

pull1D
Entries 91
Mean −0.01186
Std Dev 0.9539
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

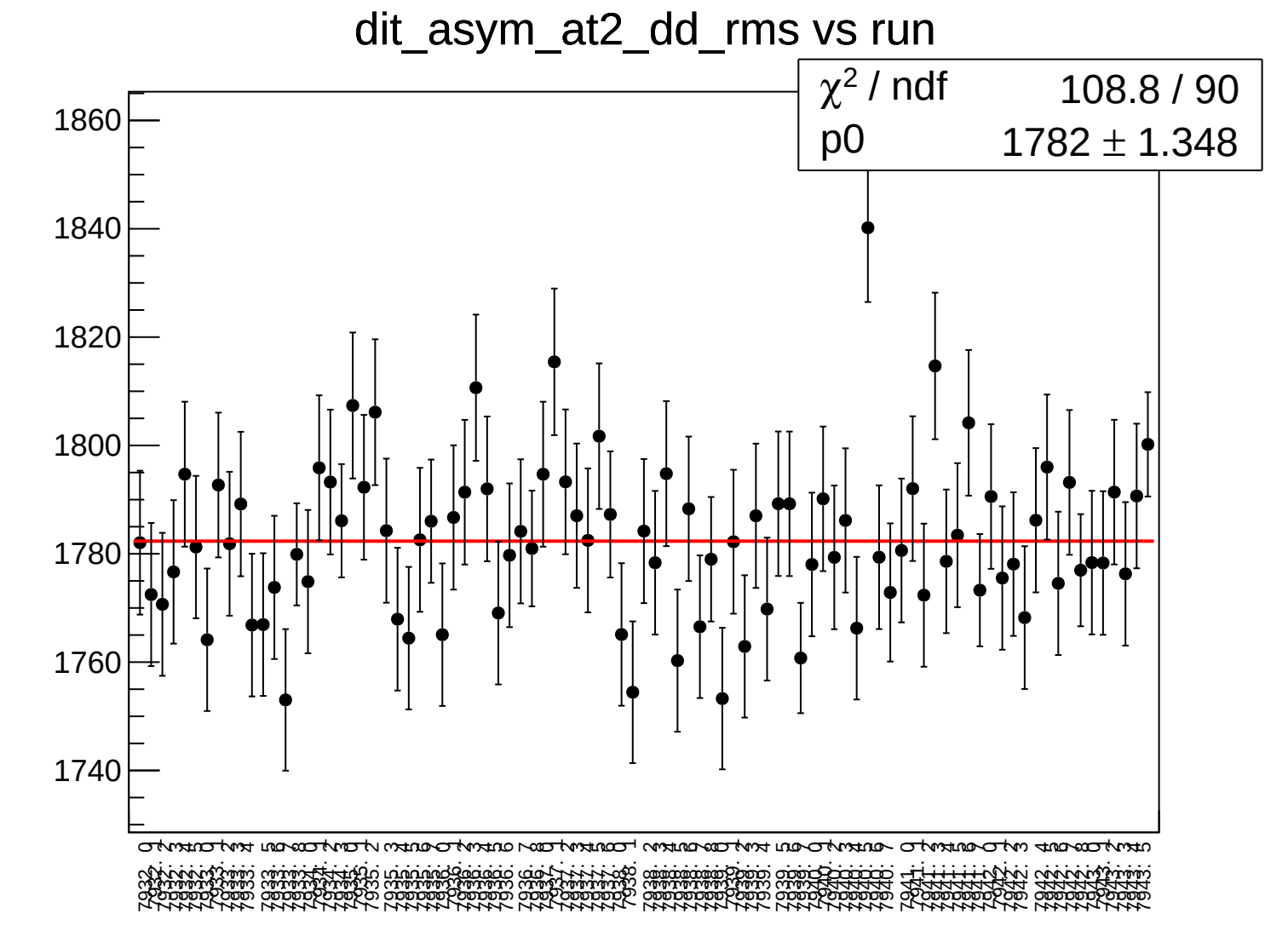

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 109 / 90
p0 1777 ± 1.344
1840
1820
1800
1780
1760
1740

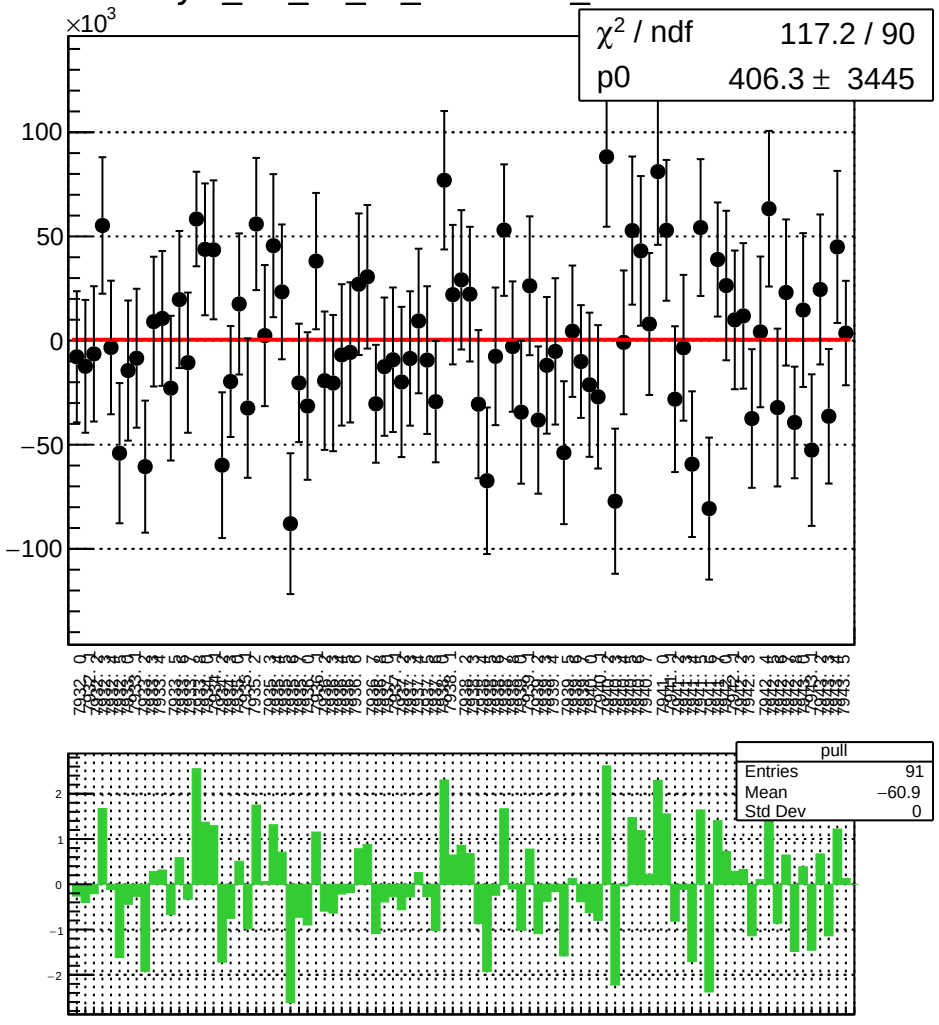

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 116.9 / 90
p0 411.6 ± 3354
100
50
0
−50
−100
pull
Entries 91
Mean −72.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.008486
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

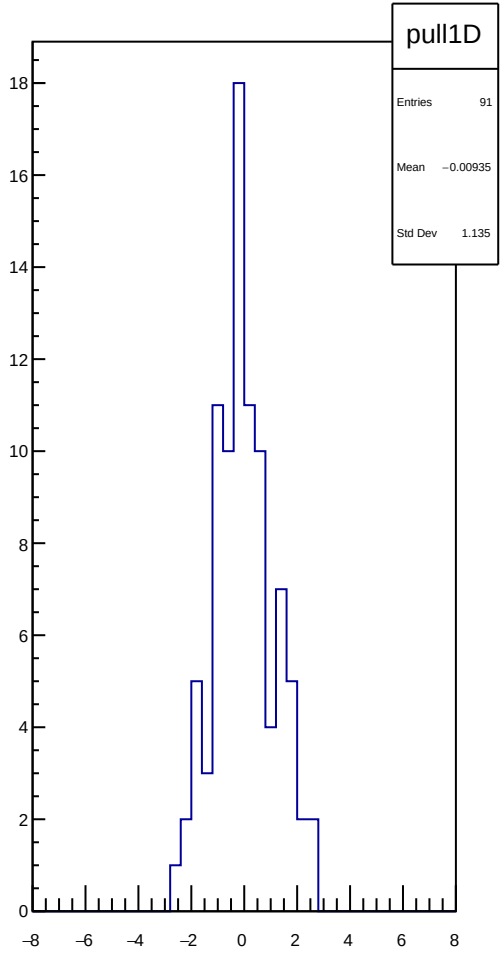

asym_at2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2894 / 90
p0 3134 ± 2.372
3600
3500
3400
3300
3200
3100
3000
2900
2800

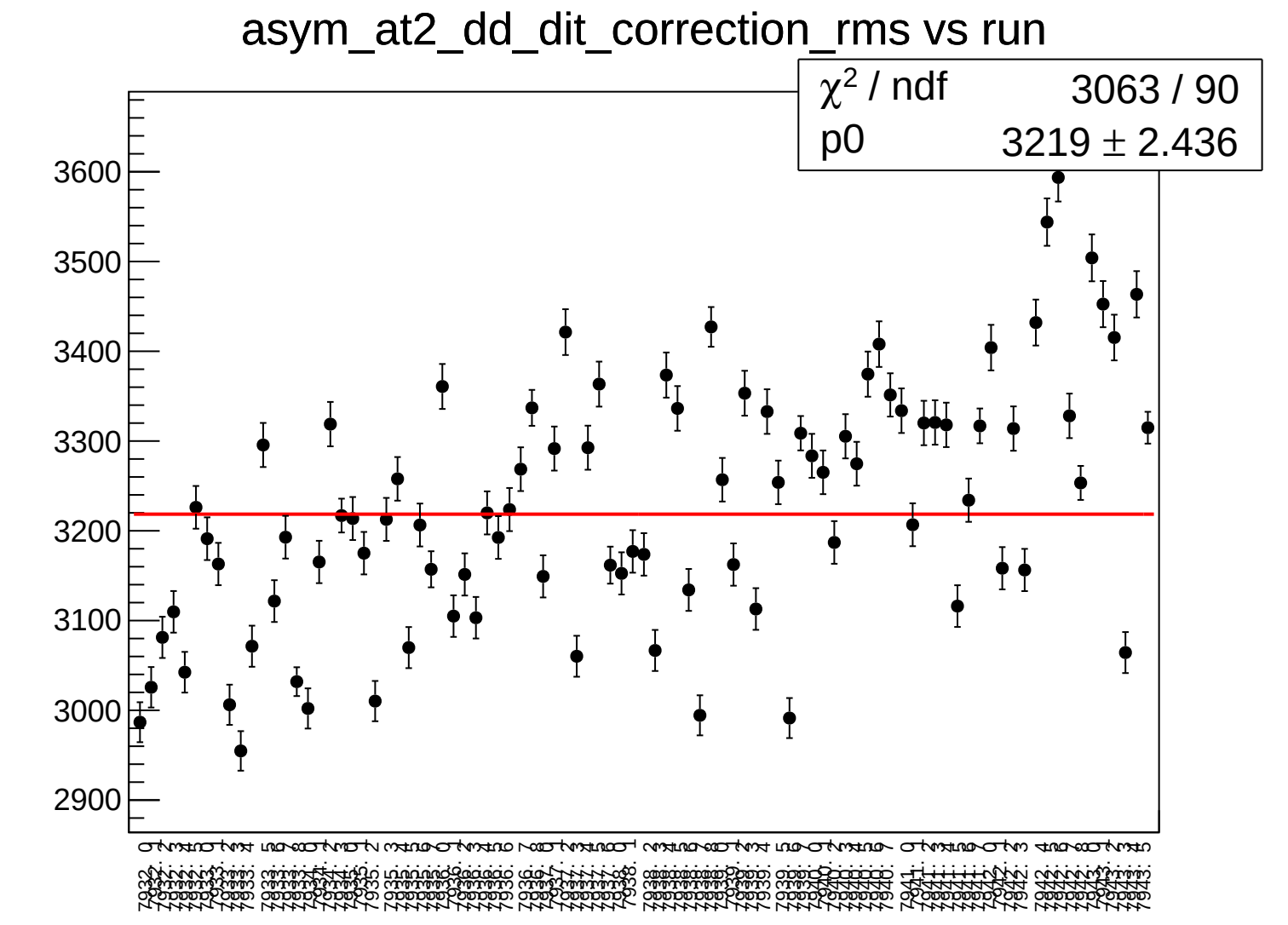

dit_asym_at2_dd_mean vs run
χ² / ndf 85.14 / 90
p0 2729 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 106.4
Std Dev 40.19
3
2
1
0
−1
−2

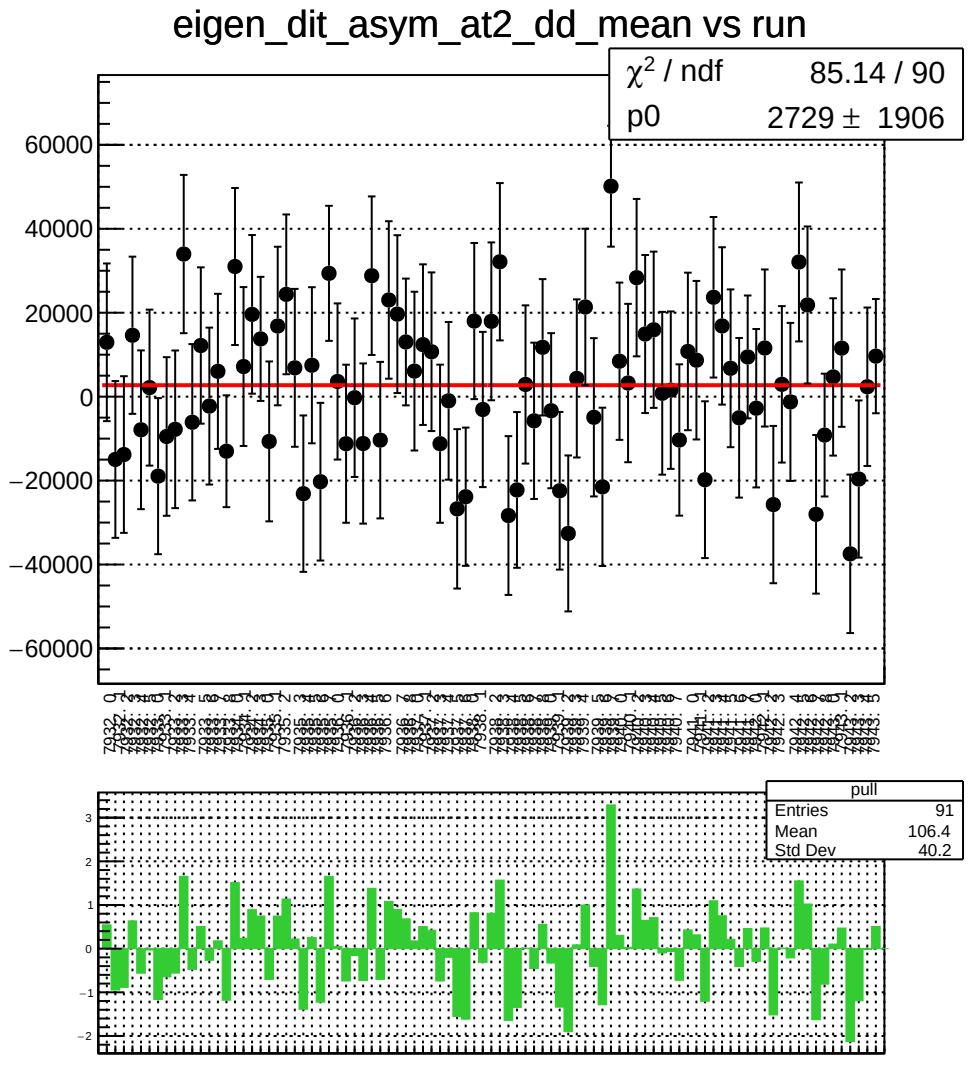

pull1D
Entries 91
Mean −0.01145
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

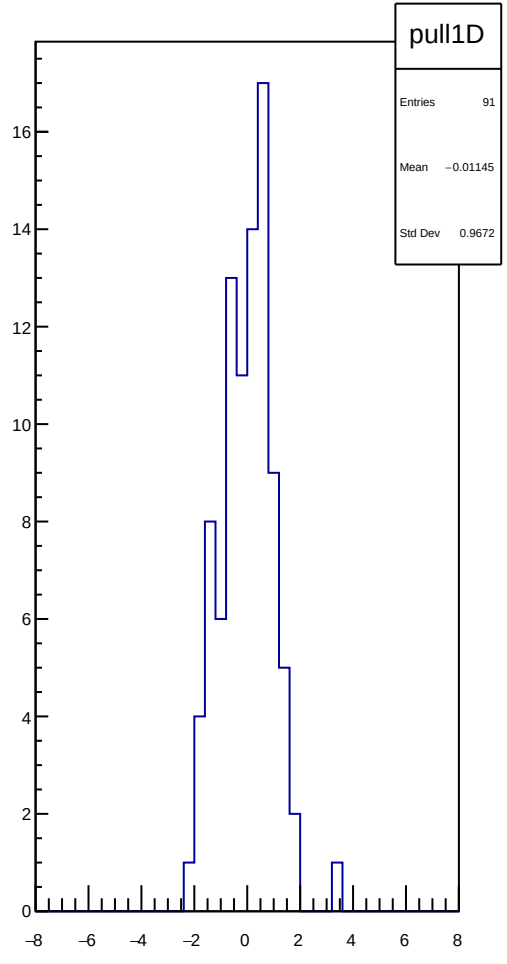

dit_asym_at2_dd_rms vs run
χ^2 / ndf 108.8 / 90
p0 1782 ± 1.348
1860
1840
1820
1800
1780
1760
1740

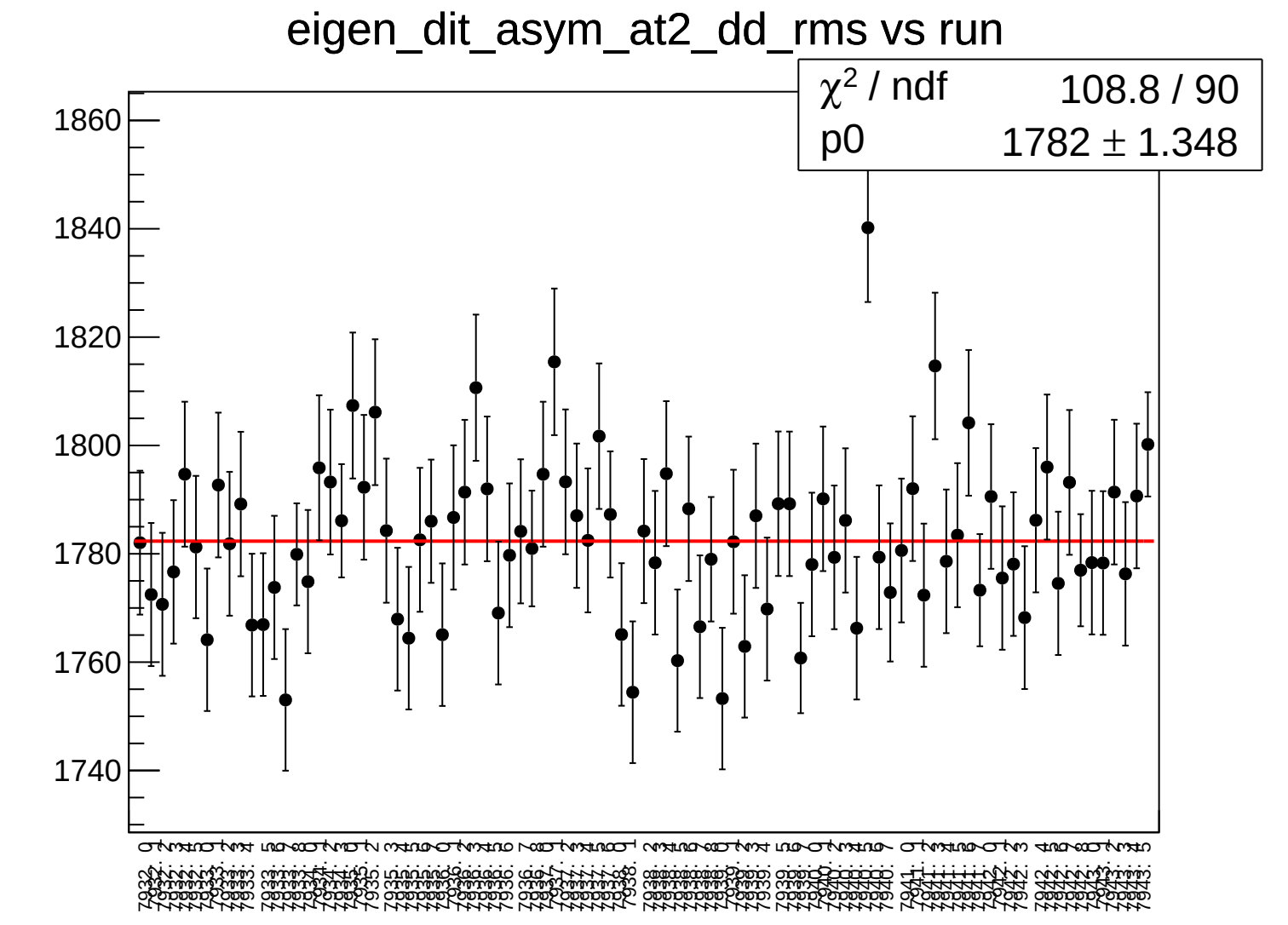

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 117.2 / 90
p0 406.3 ± 3445
×10³
100
50
0
−50
−100
pull
Entries 91
Mean −60.9
Std Dev 0
2
1
0
−1
−2

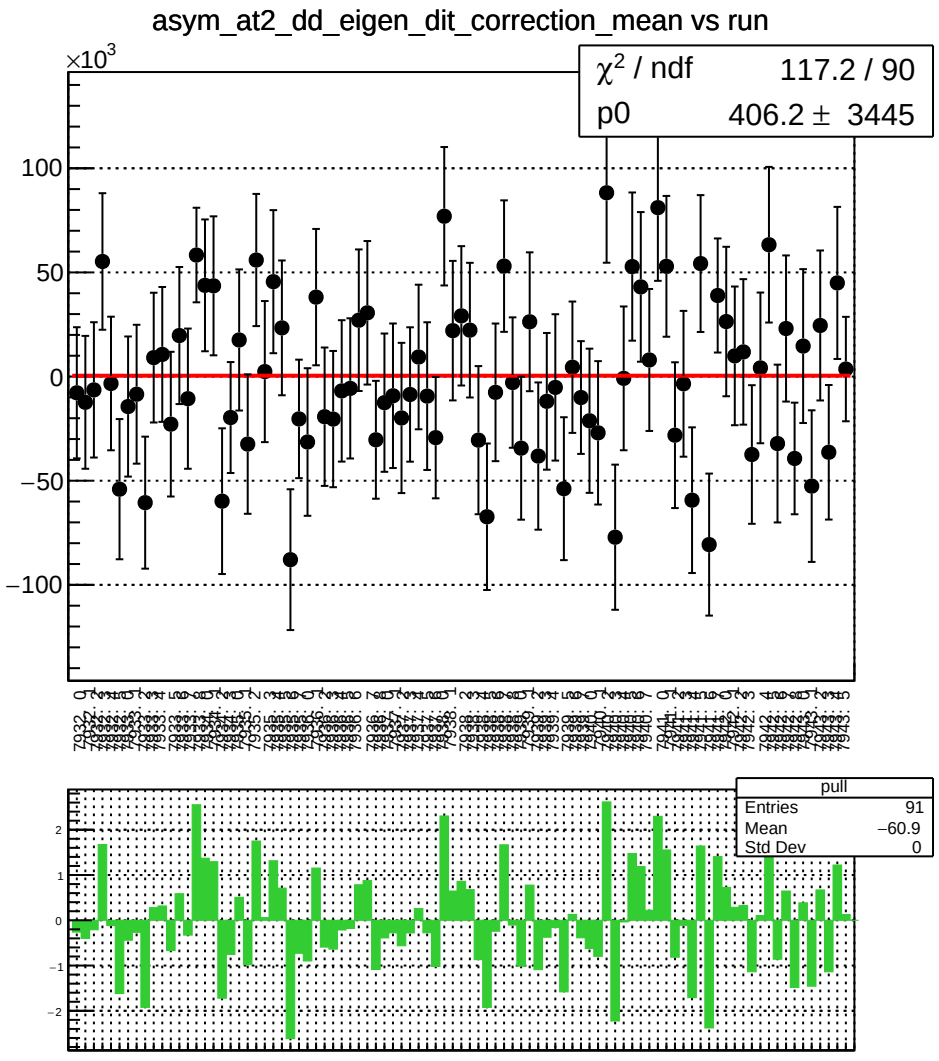

pull1D
Entries 91
Mean −0.00935
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

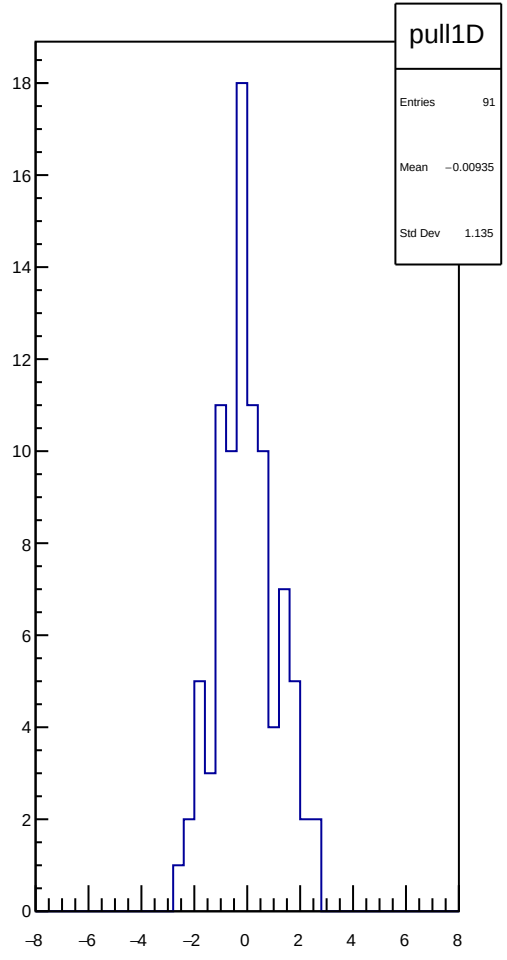

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 3063 / 90
p0 3219 ± 2.436
3600
3500
3400
3300
3200
3100
3000
2900

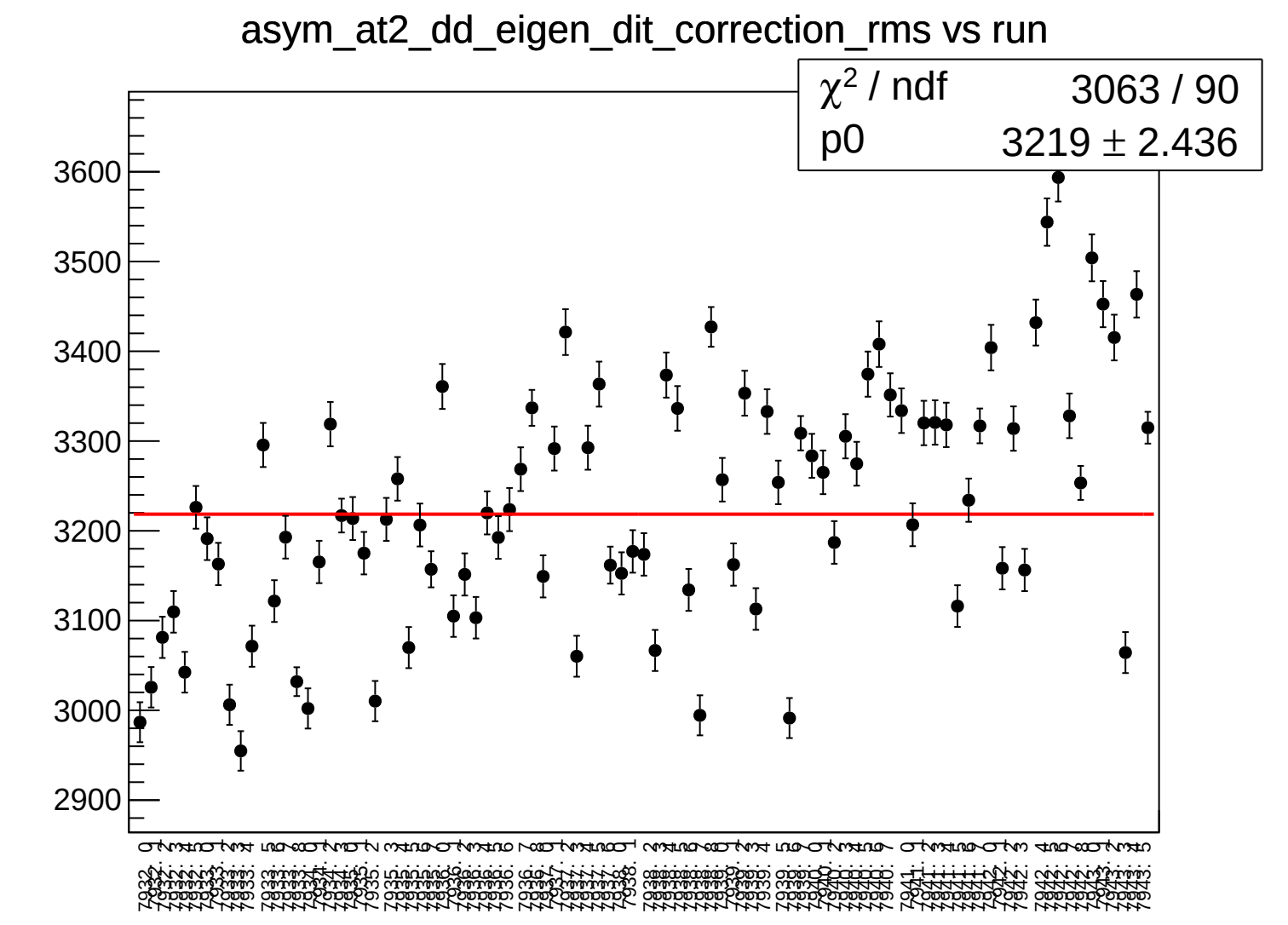

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 85.14 / 90
p0 2729 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 106.4
Std Dev 40.2
3
2
1
0
−1
−2

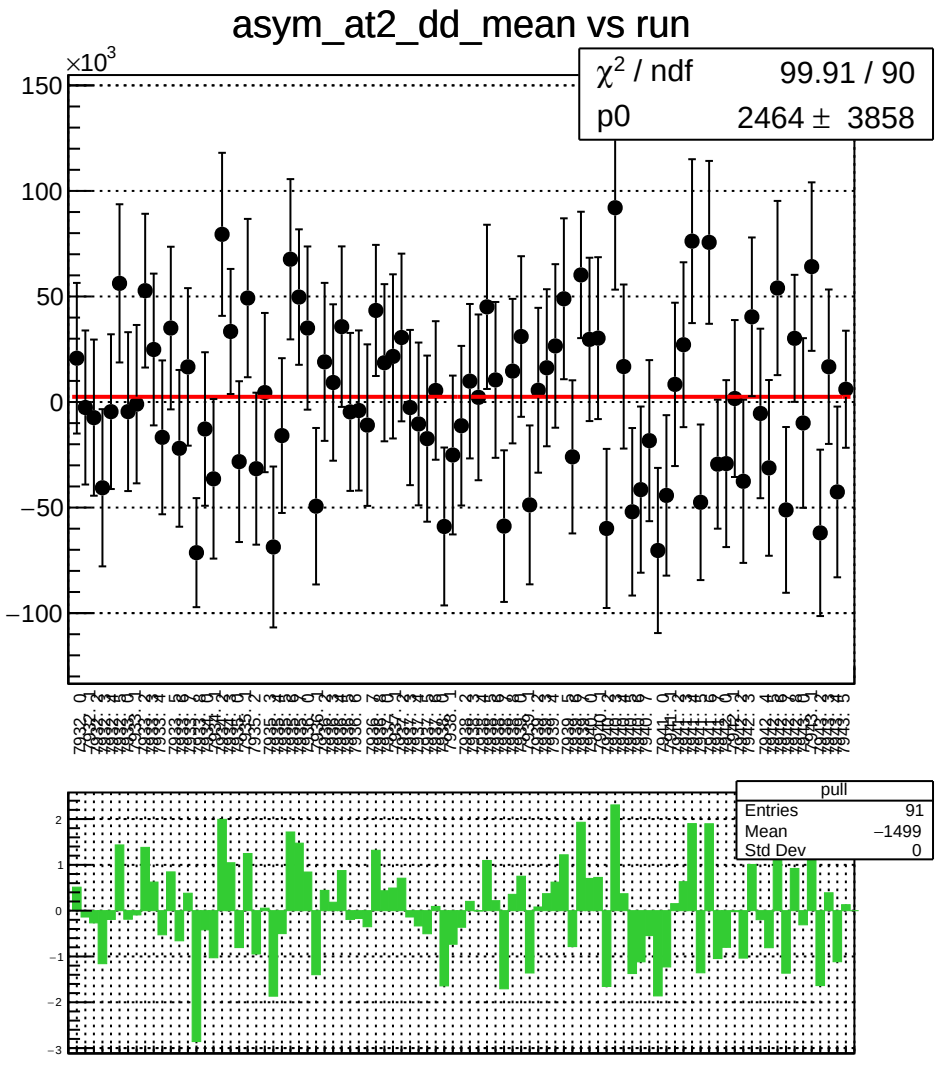

pull1D
Entries 91
Mean −0.01145
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

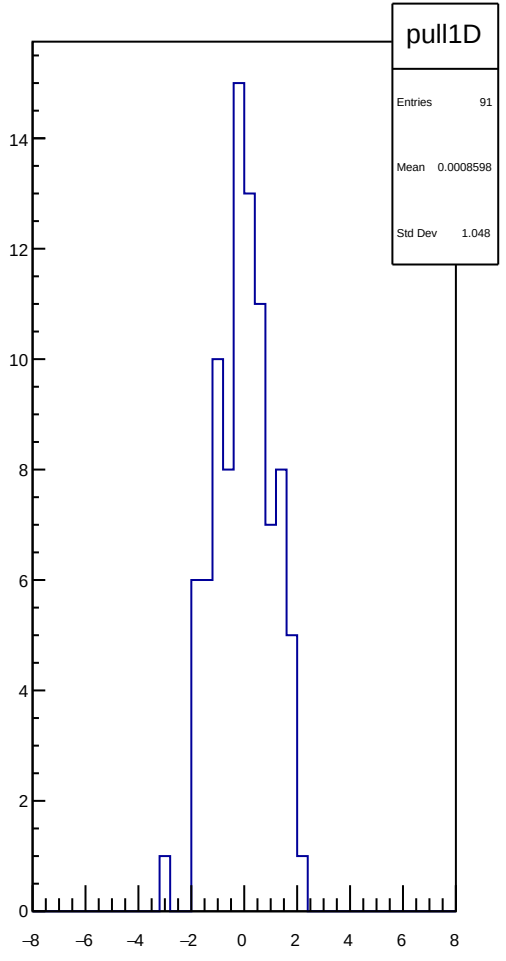

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 108.8 / 90
p0 1782 ± 1.348
1860
1840
1820
1800
1780
1760
1740

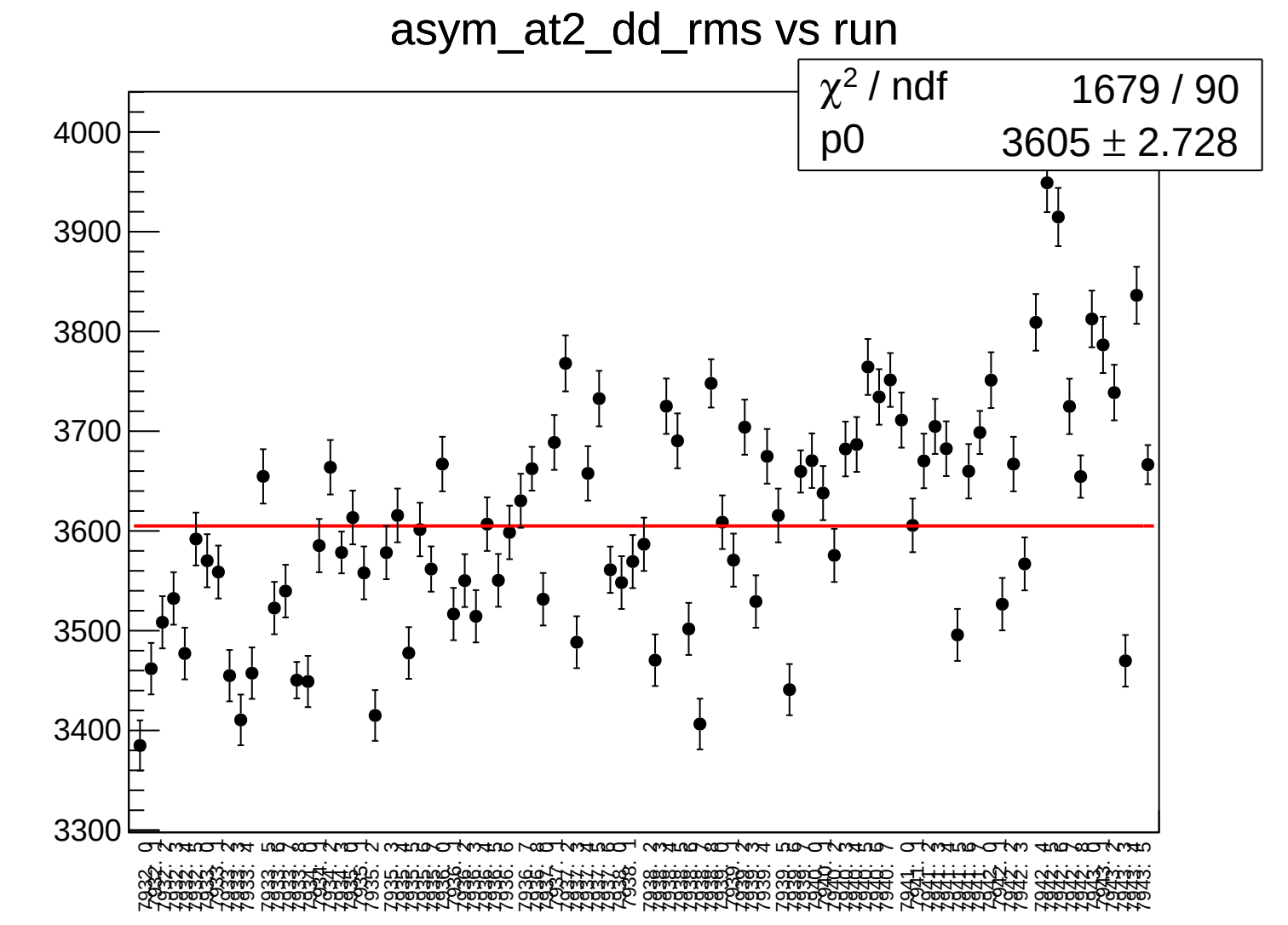

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 117.2 / 90
p0 406.2 ± 3445
100
50
0
−50
−100
pull
Entries 91
Mean −60.9
Std Dev 0
2
1
0
−1
−2

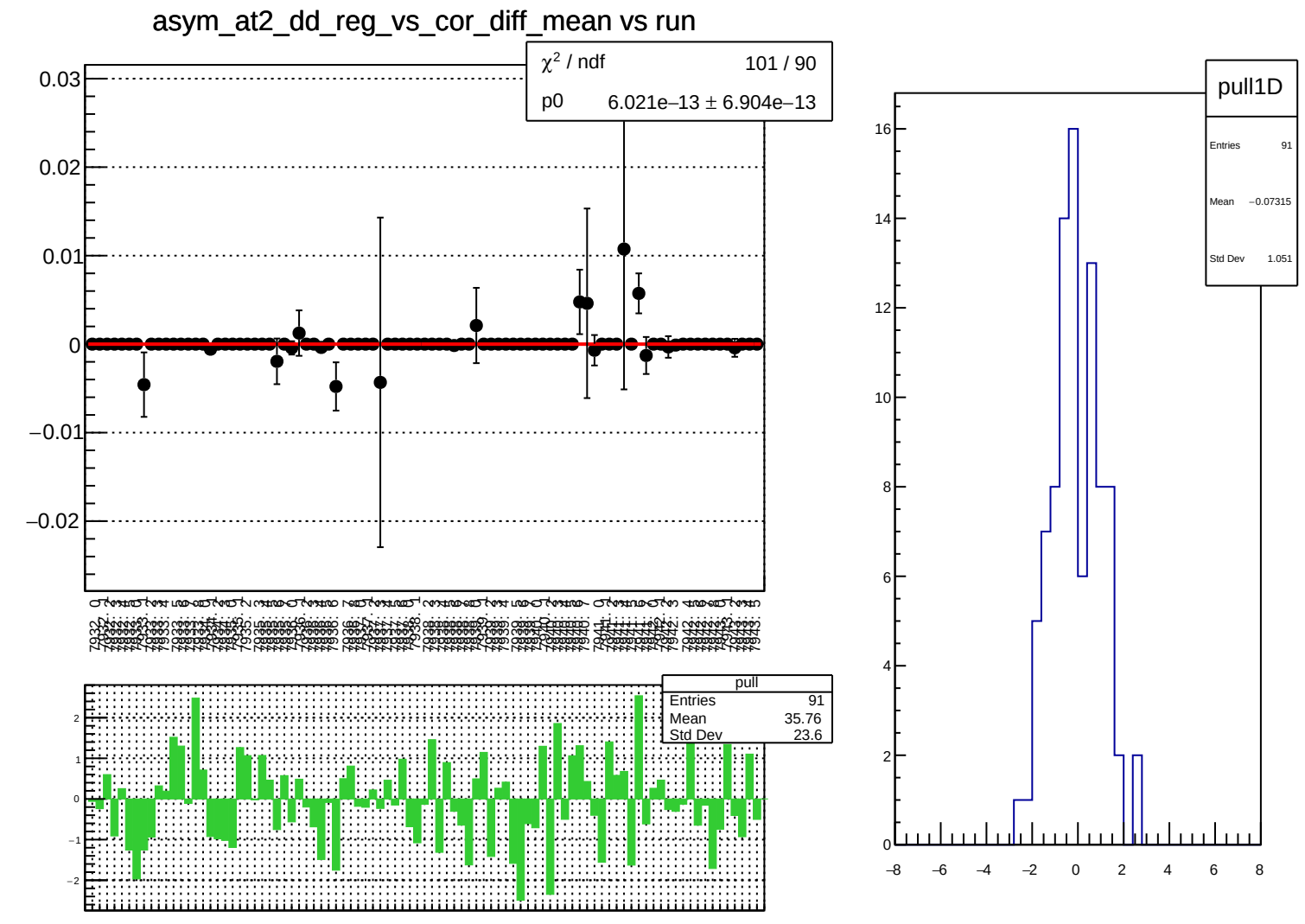

pull1D
Entries 91
Mean −0.00935
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

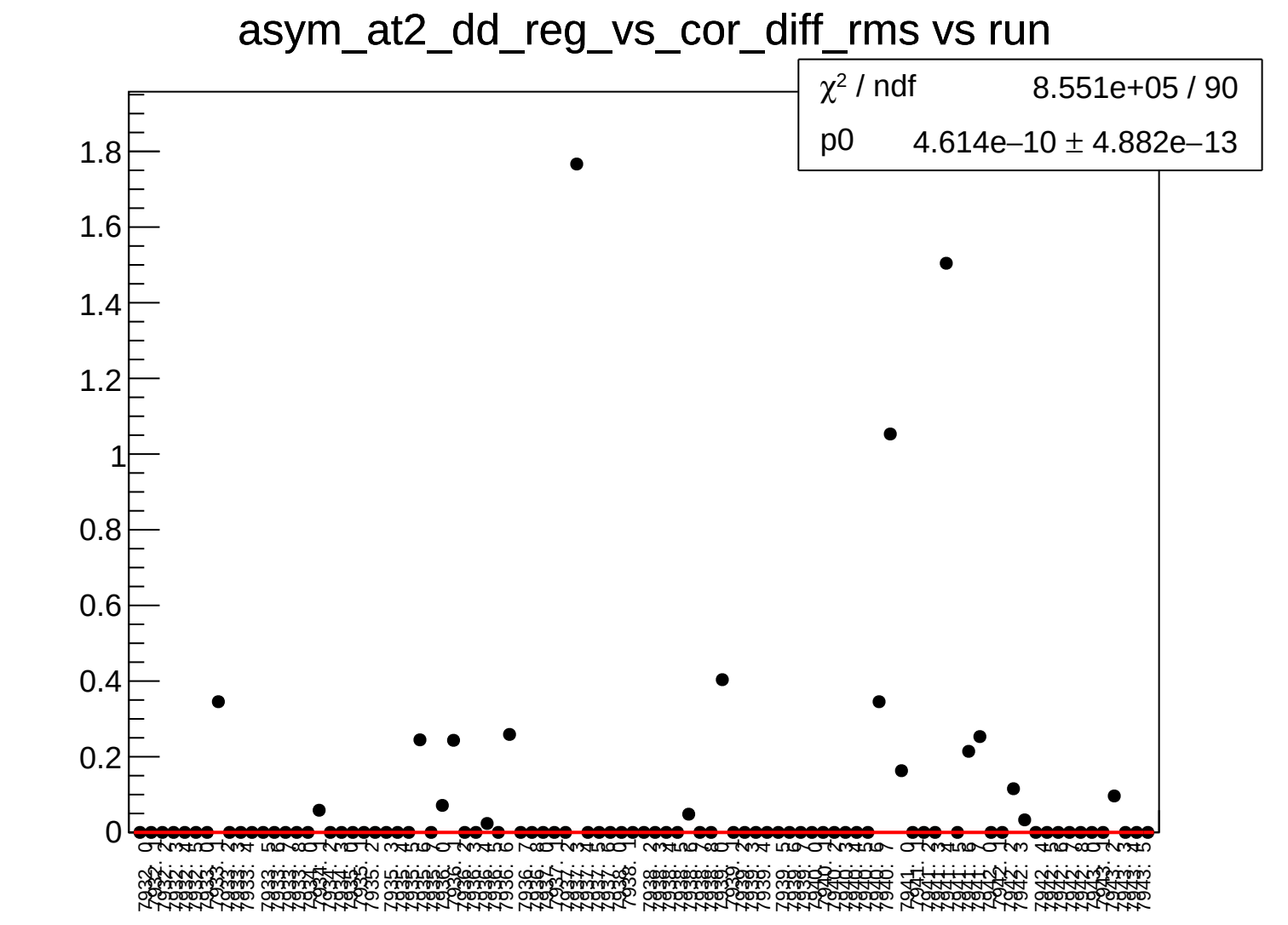

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3063 / 90
p0 3219 ± 2.436
3600
3500
3400
3300
3200
3100
3000
2900

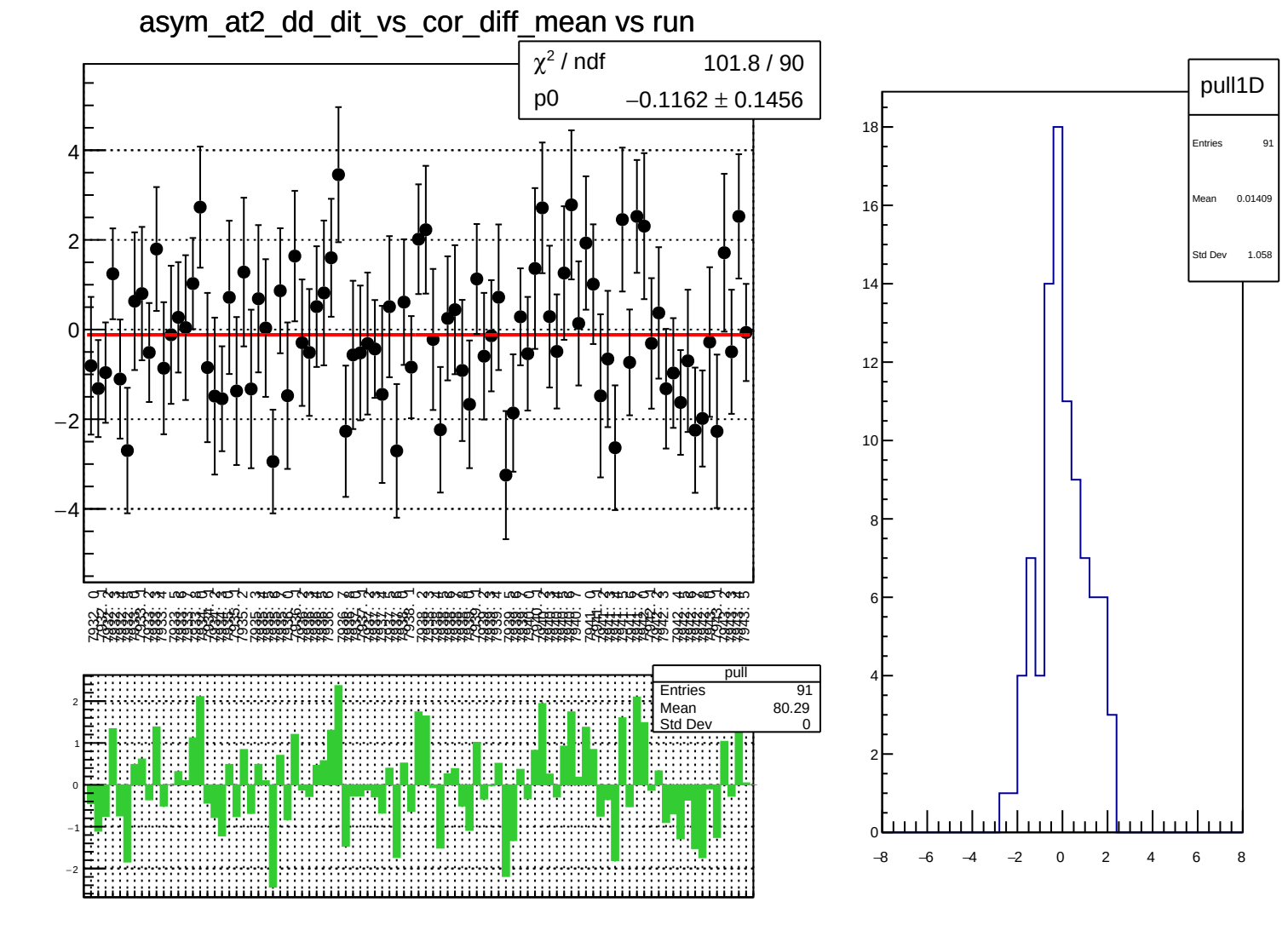

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 99.91 / 90
p0 2464 ± 3858
150
100
50
0
−50
−100
pull
Entries 91
Mean −1499
Std Dev 0
2
1
0
−1
−2
−3

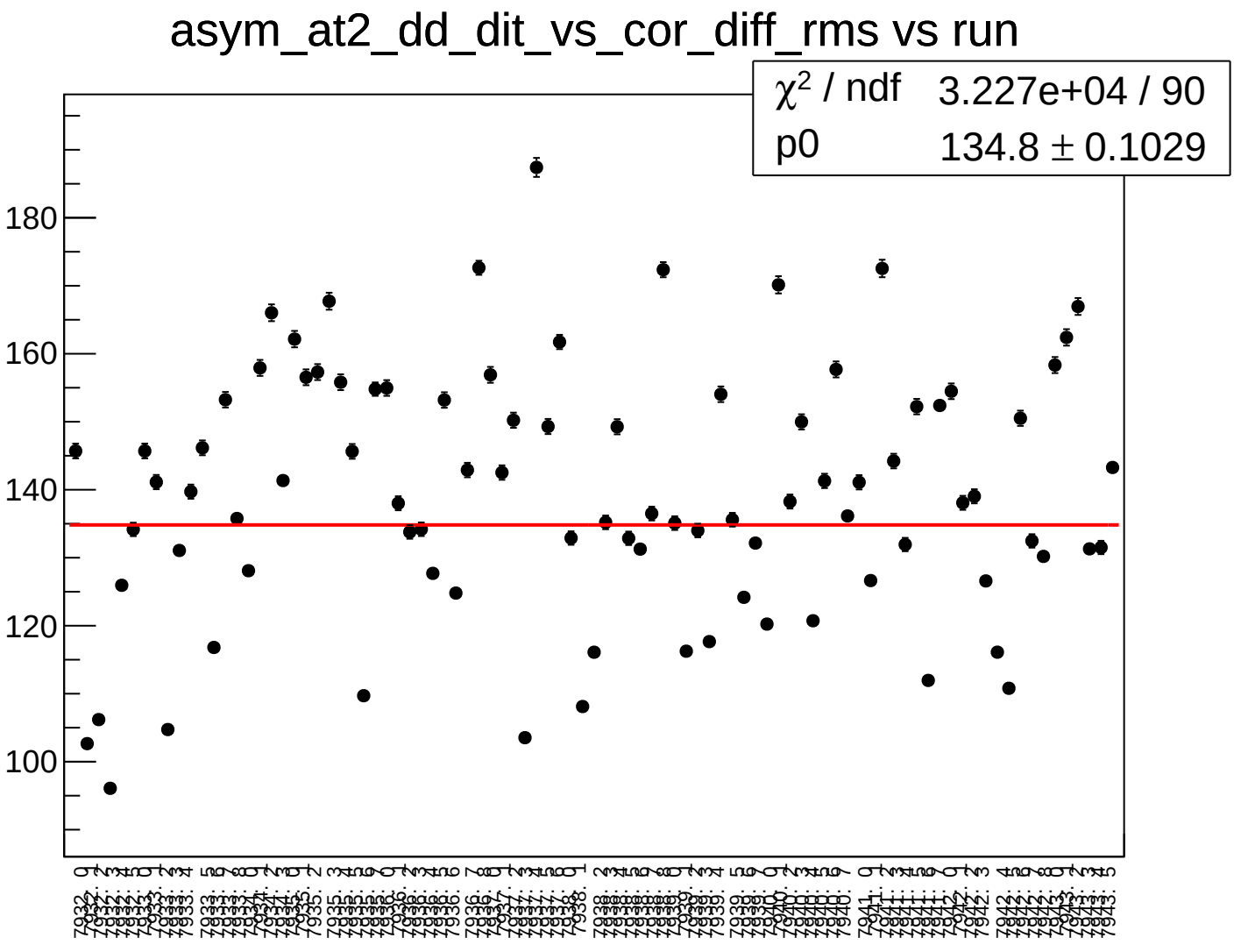

pull1D
Entries 91
Mean 0.0008598
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ^2 / ndf 1679 / 90
p0 3605 ± 2.728
4000
3900
3800
3700
3600
3500
3400
3300

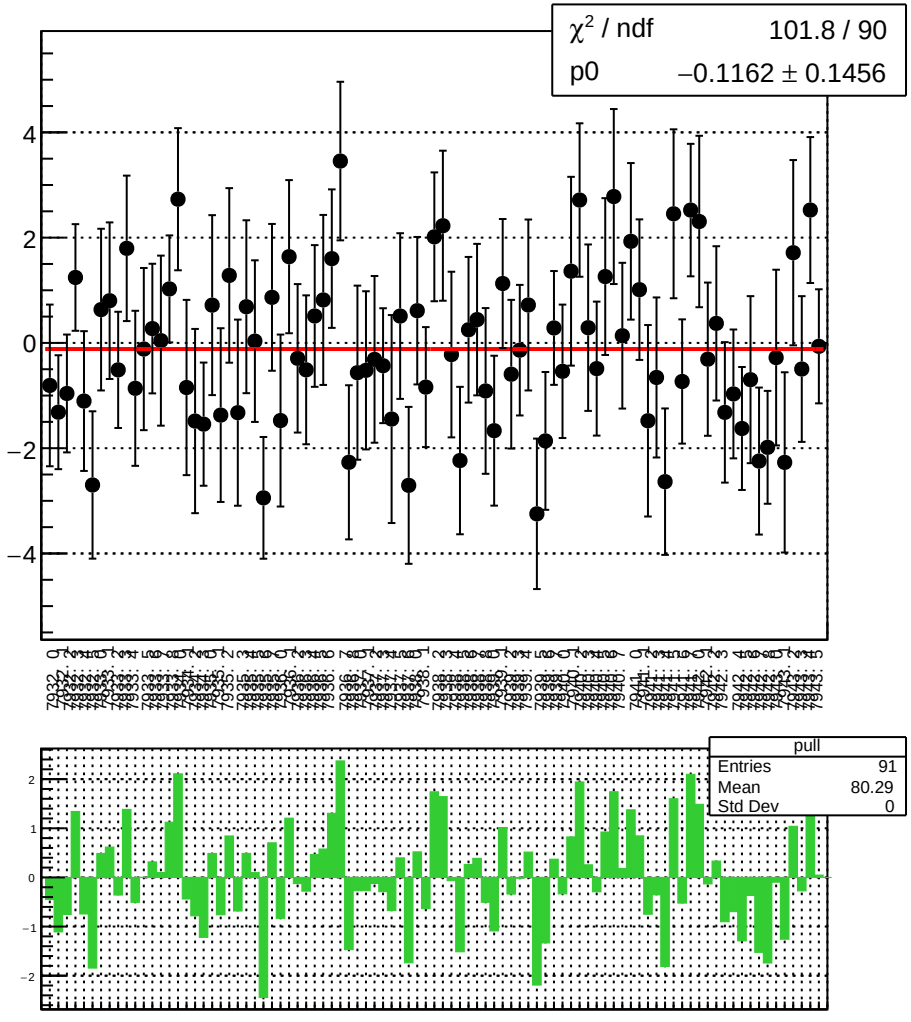

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 90
p0 6.021e−13 ± 6.904e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 35.76
Std Dev 23.6
pull1D
Entries 91
Mean −0.07315
Std Dev 1.051

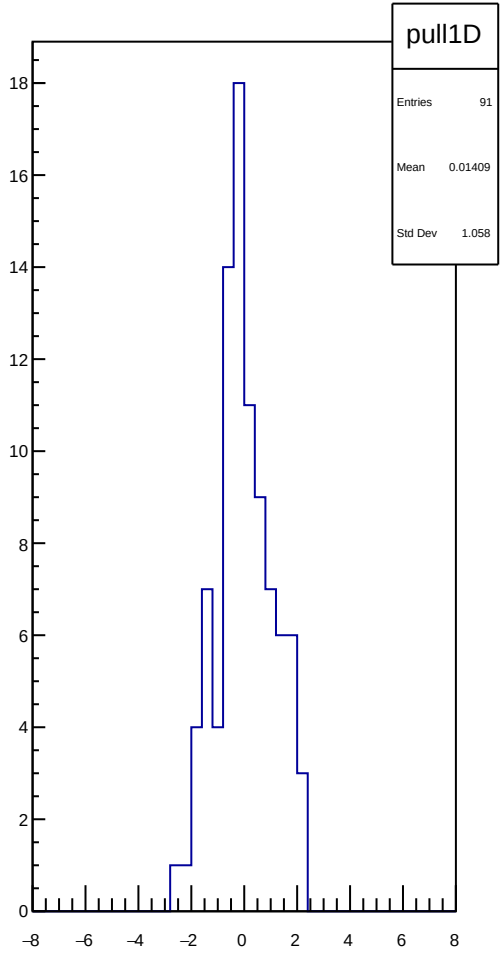

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.551e+05 / 90
p0 4.614e−10 ± 4.882e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

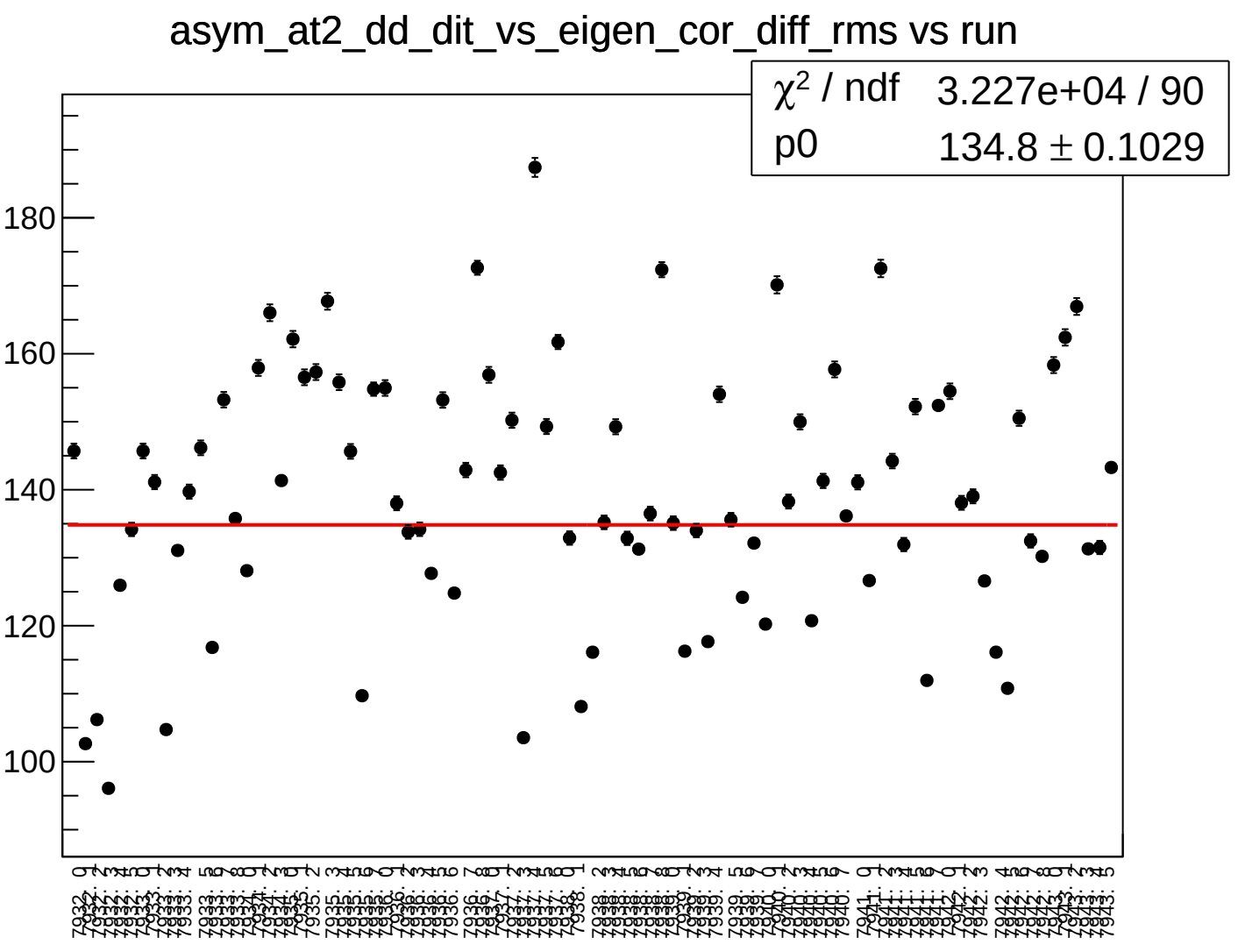

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 90
p0 −0.1162 ± 0.1456
pull
Entries 91
Mean 80.29
Std Dev 0
pull1D
Entries 91
Mean 0.01409
Std Dev 1.058

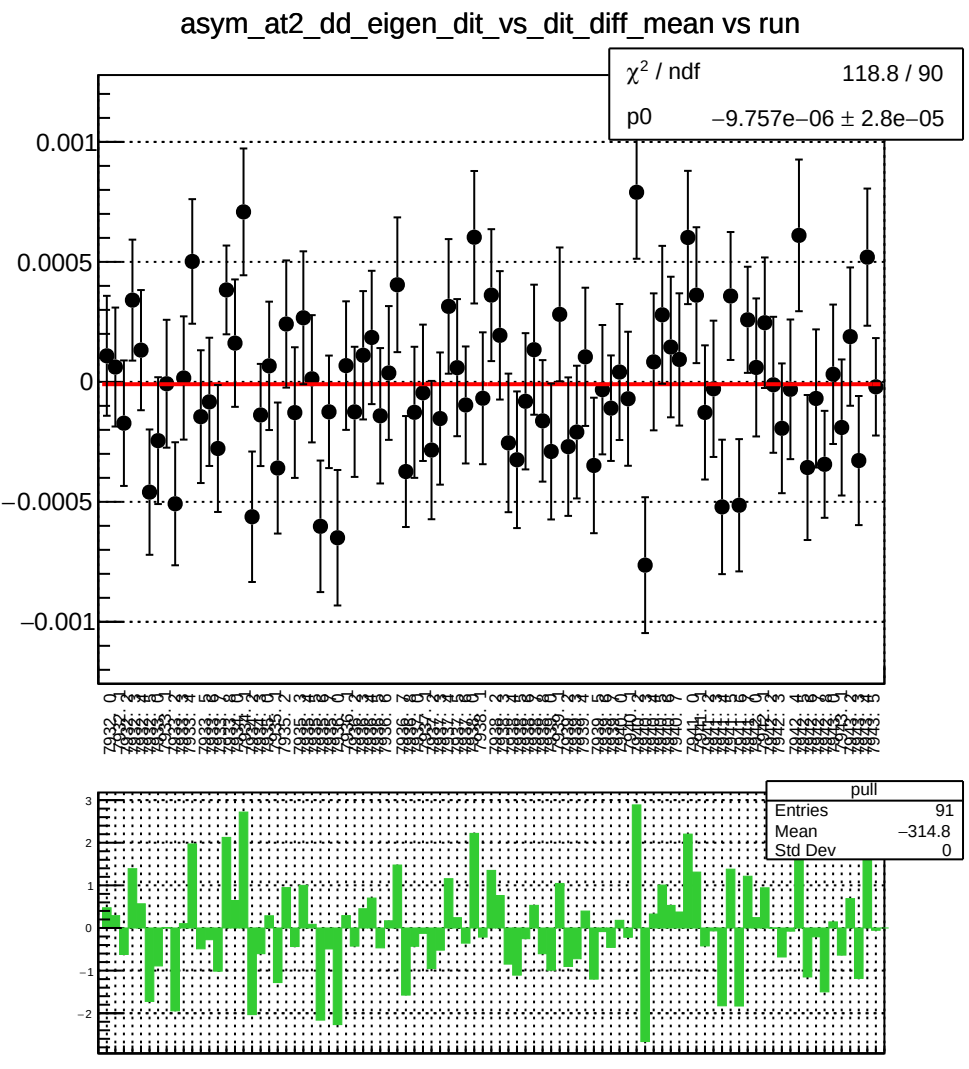

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.227e+04 / 90
p0 134.8 ± 0.1029
180
160
140
120
100

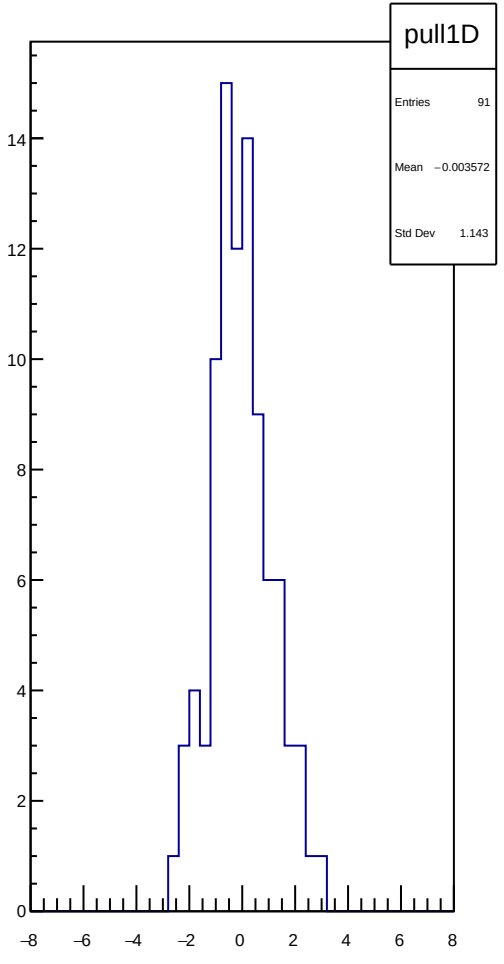
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

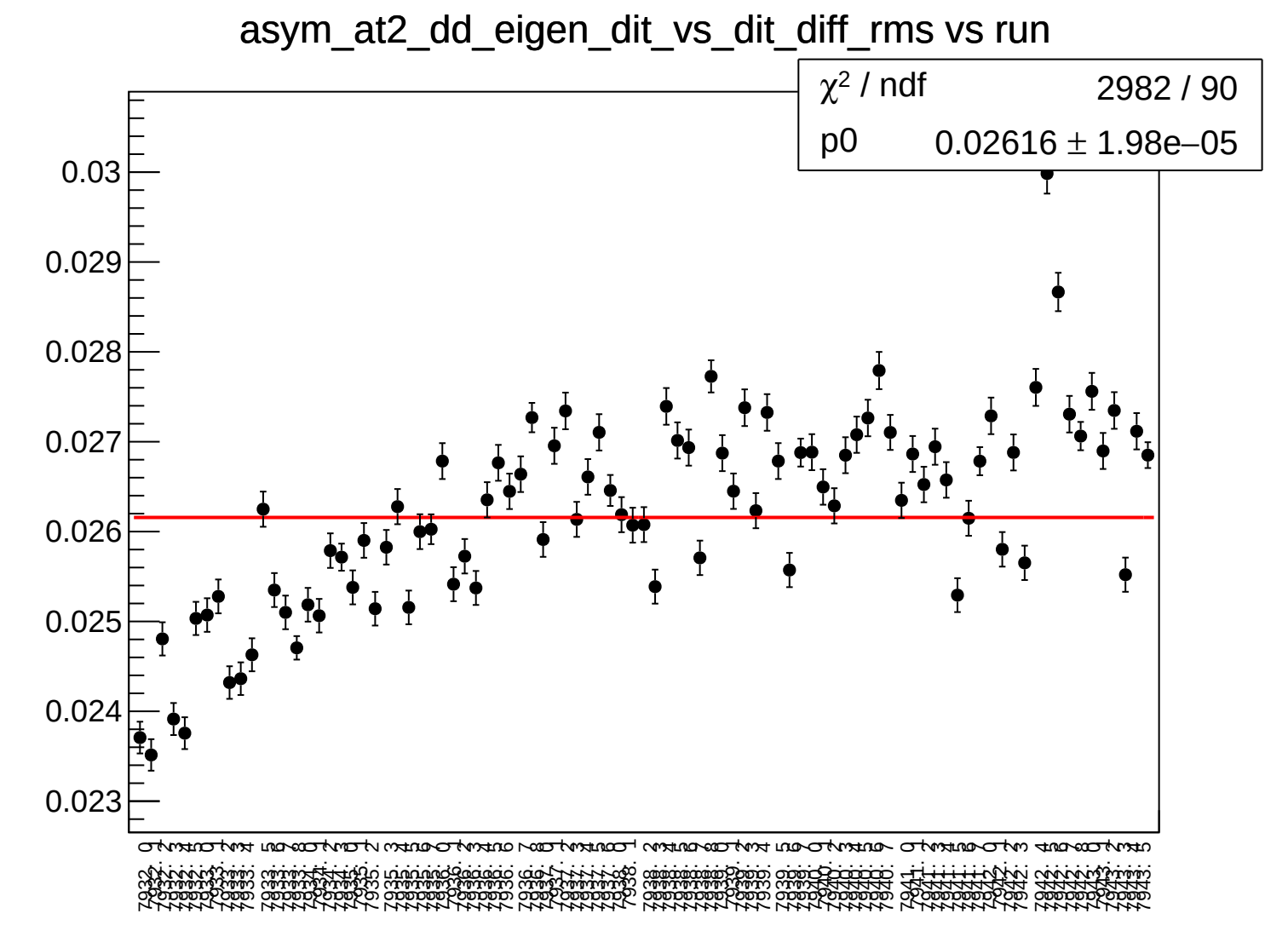


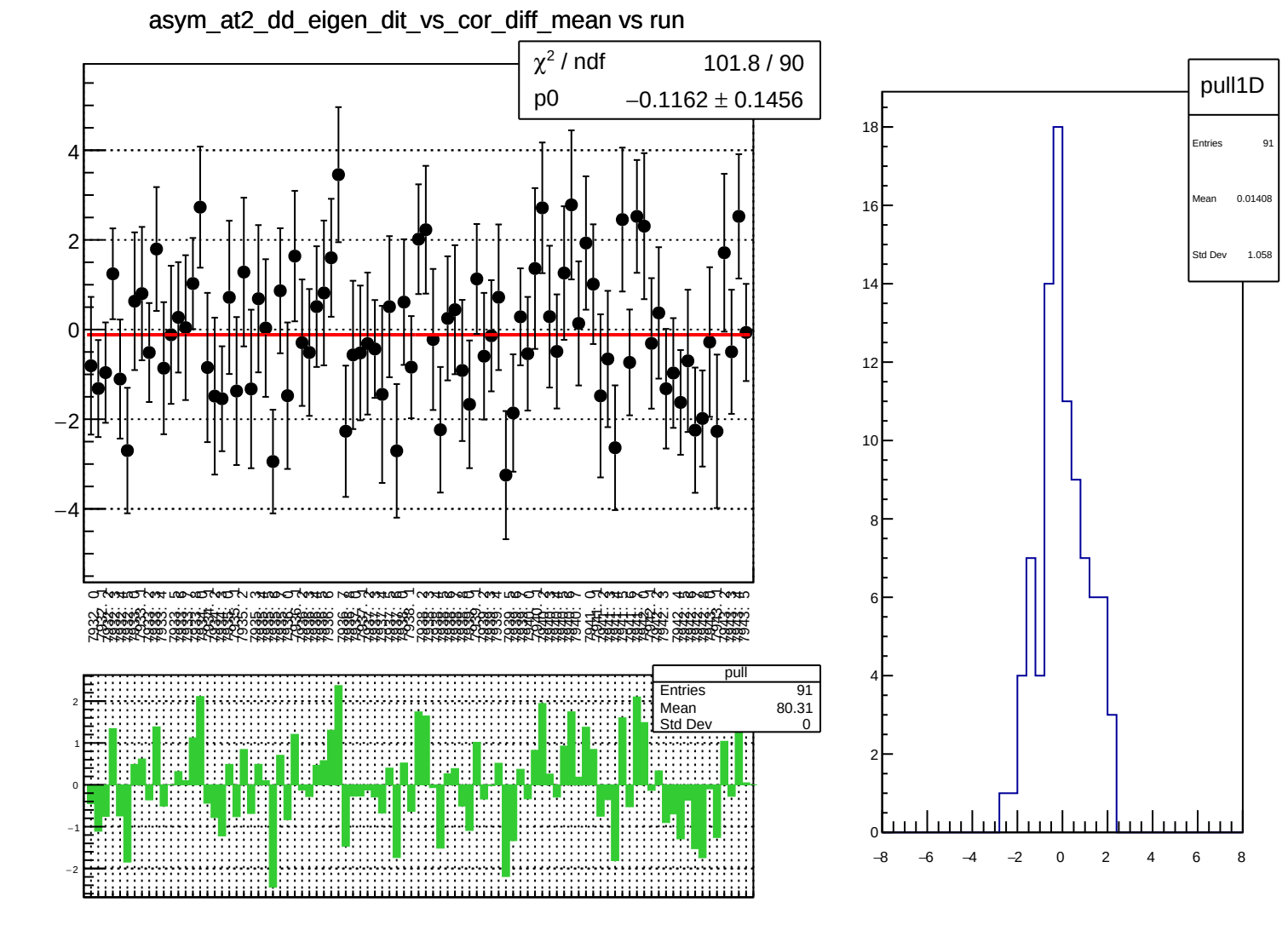


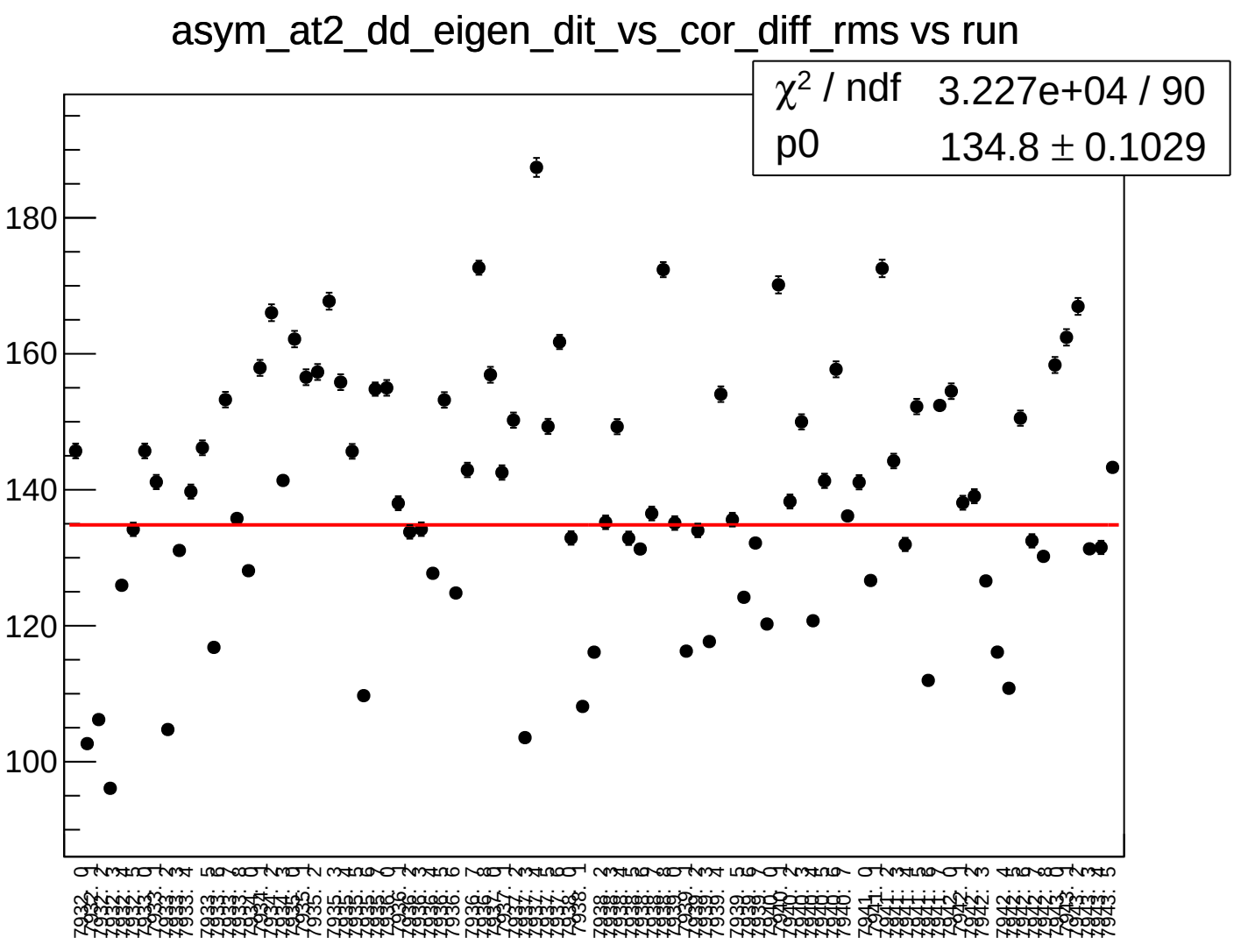

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.227e+04 / 90
p0 134.8 ± 0.1029
180
160
140
120
100

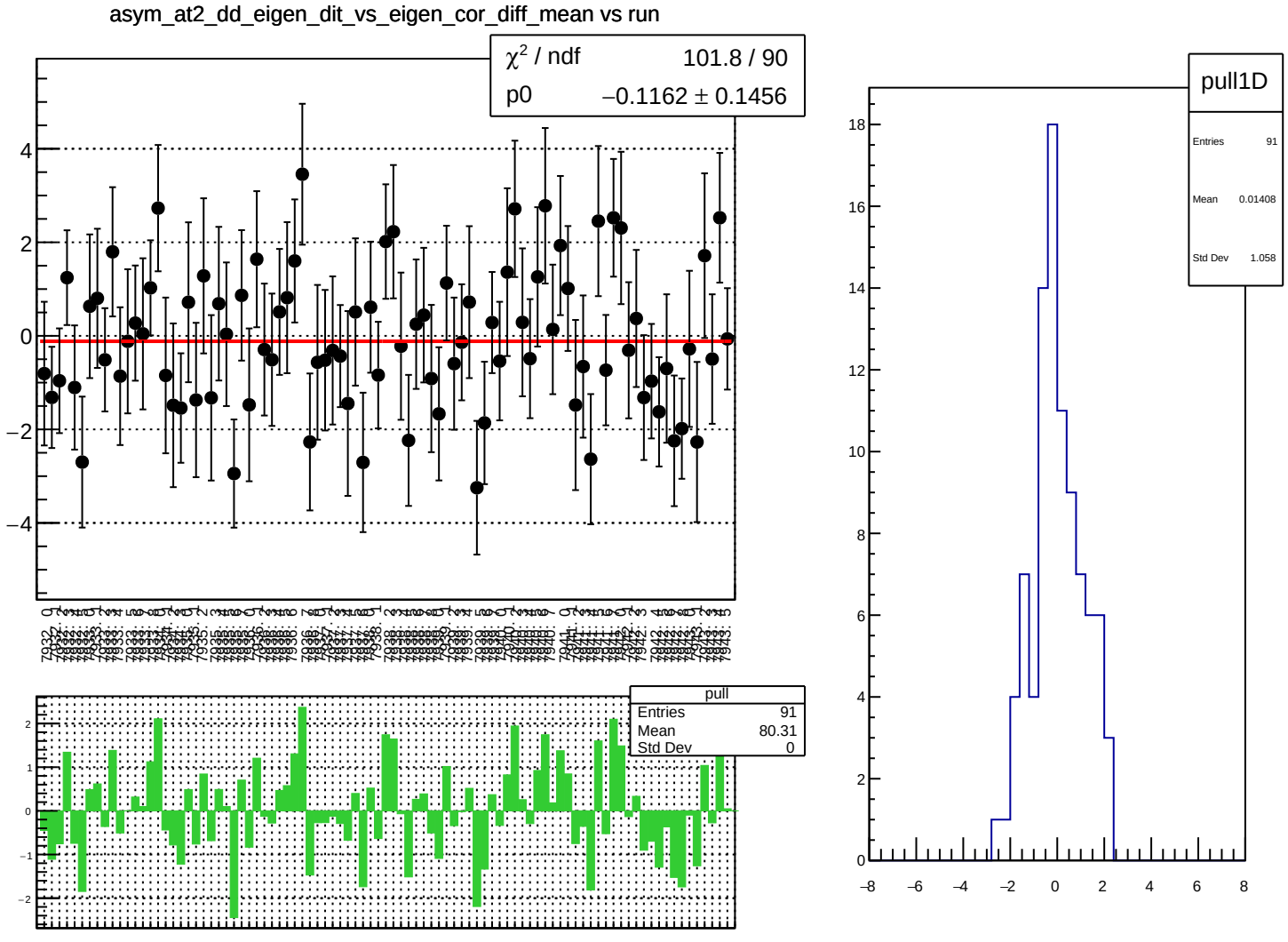

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 118.8 / 90
p0 −9.757e−06 ± 2.8e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −314.8
Std Dev 0
3
2
1
0
−1
−2

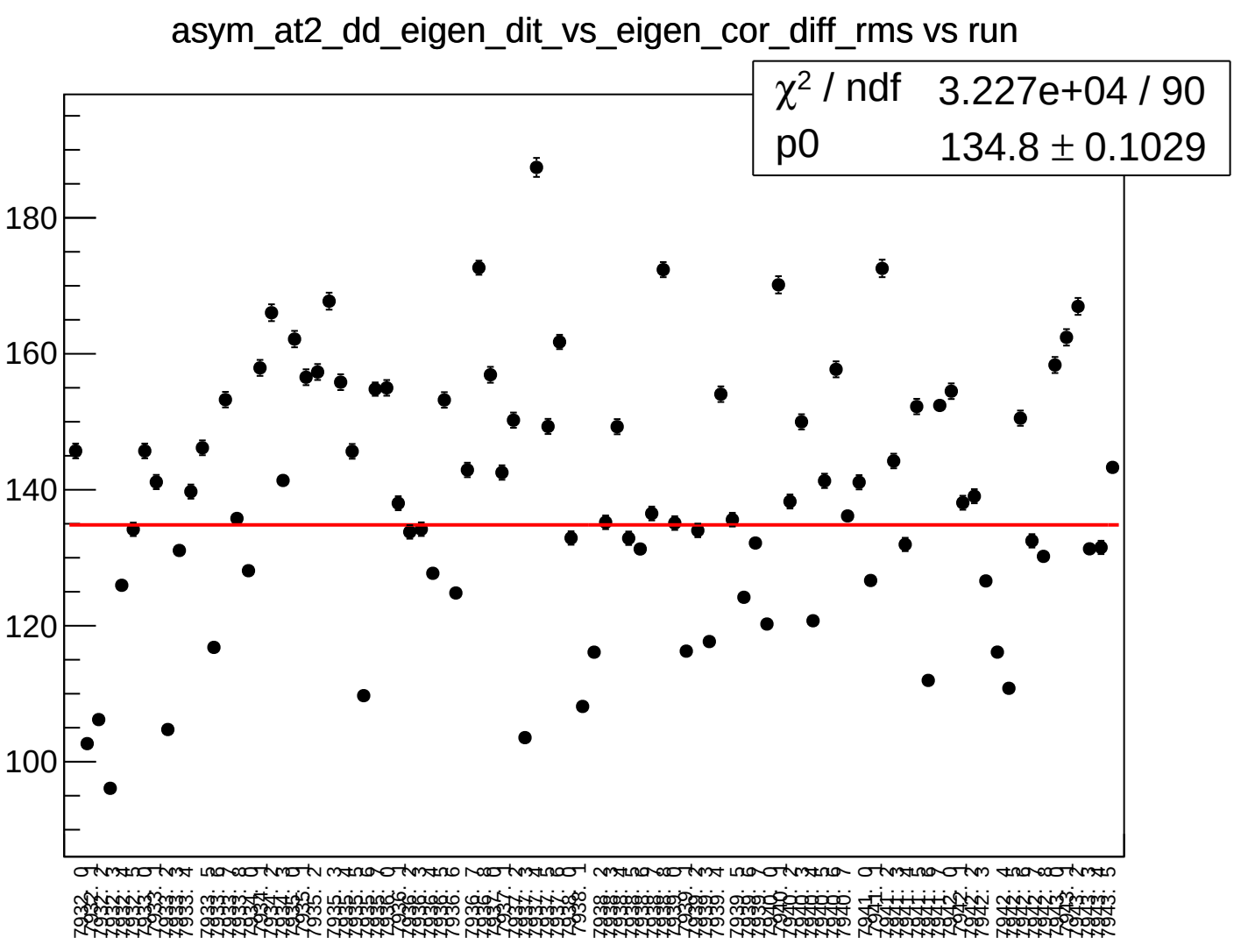

pull1D
Entries 91
Mean −0.003572
Std Dev 1.143
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

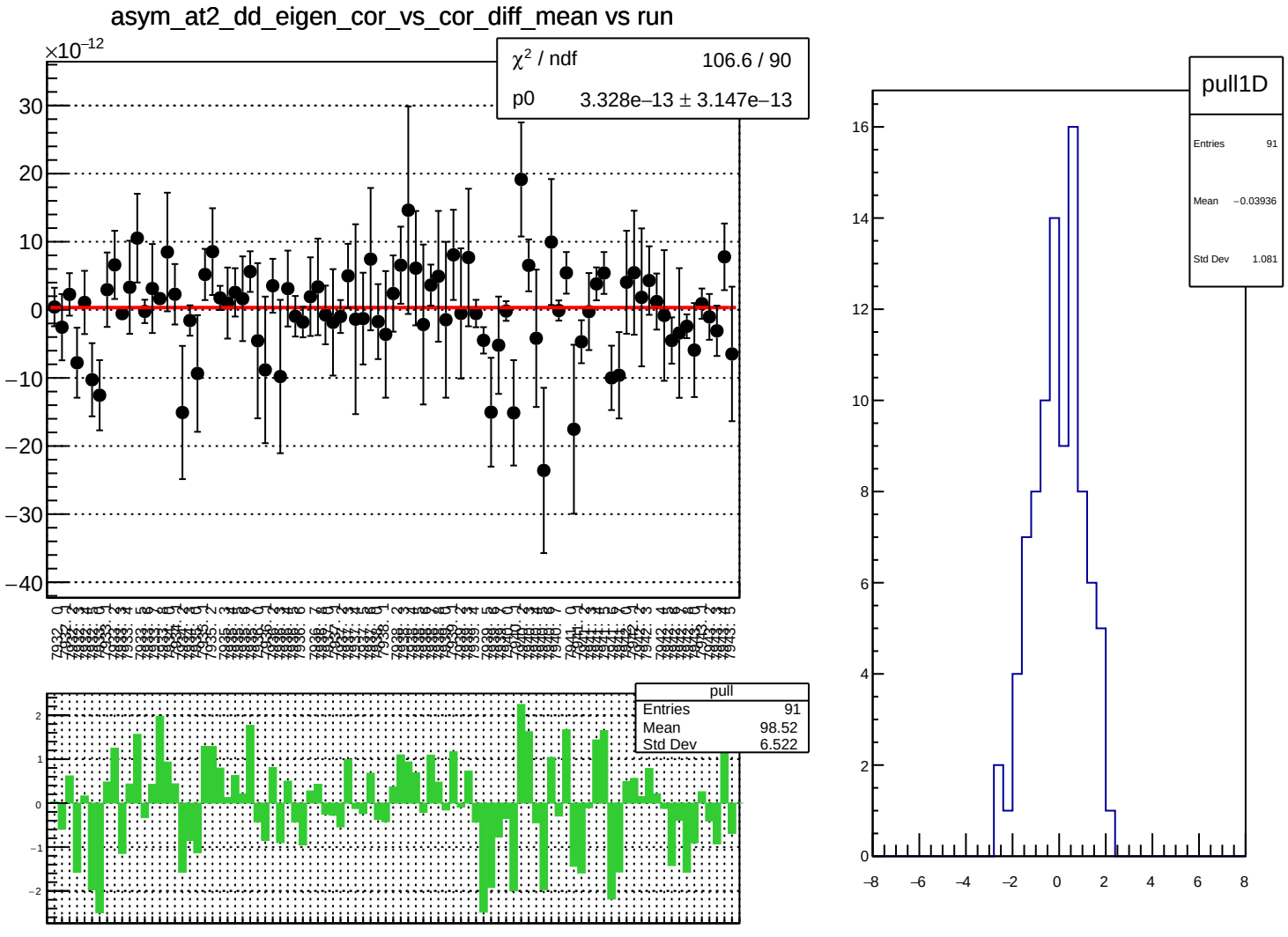

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2982 / 90
p0 0.02616 ± 1.98e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023

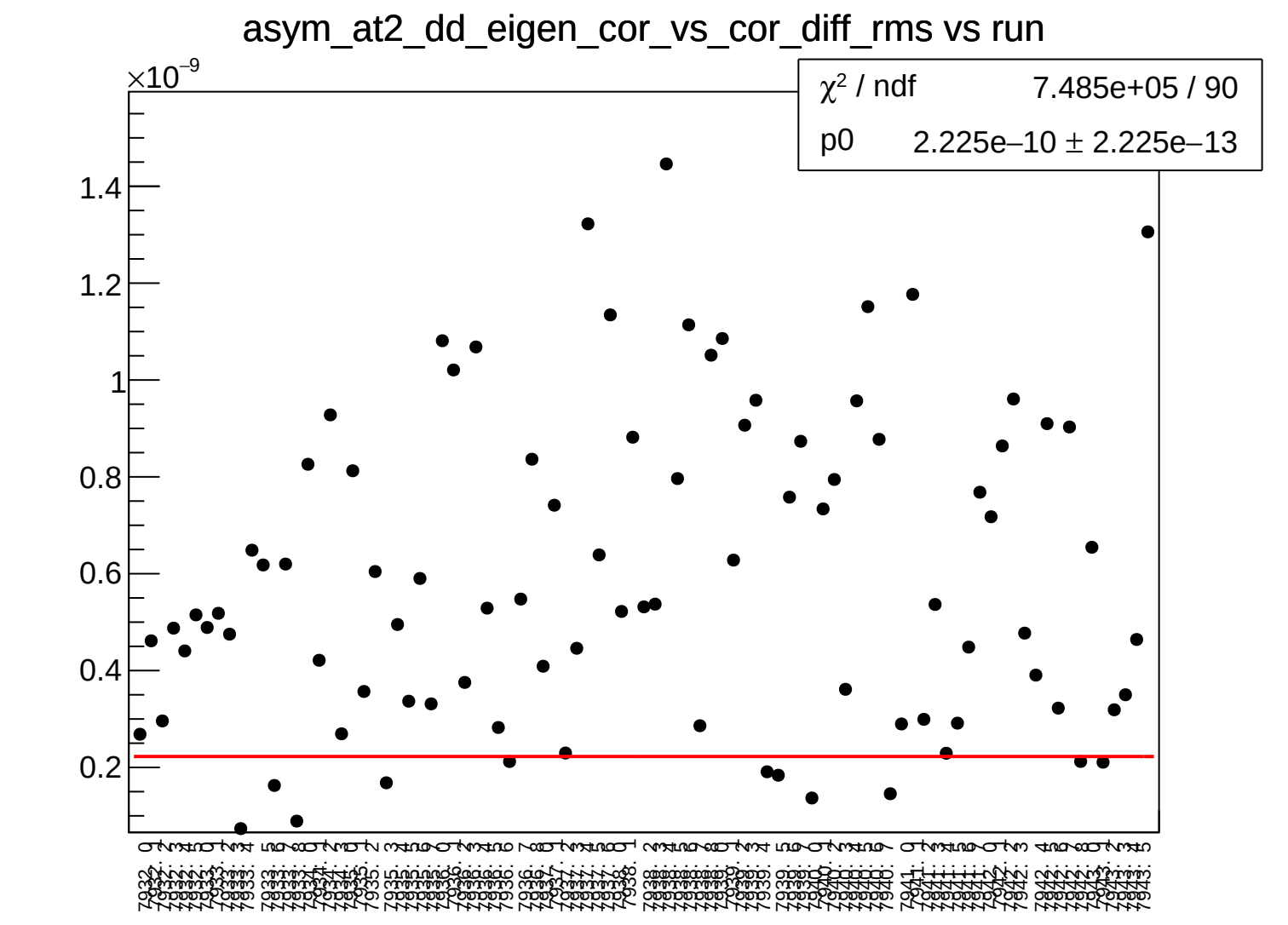

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 90
p0 −0.1162 ± 0.1456
pull
Entries 91
Mean 80.31
Std Dev 0
pull1D
Entries 91
Mean 0.01408
Std Dev 1.058

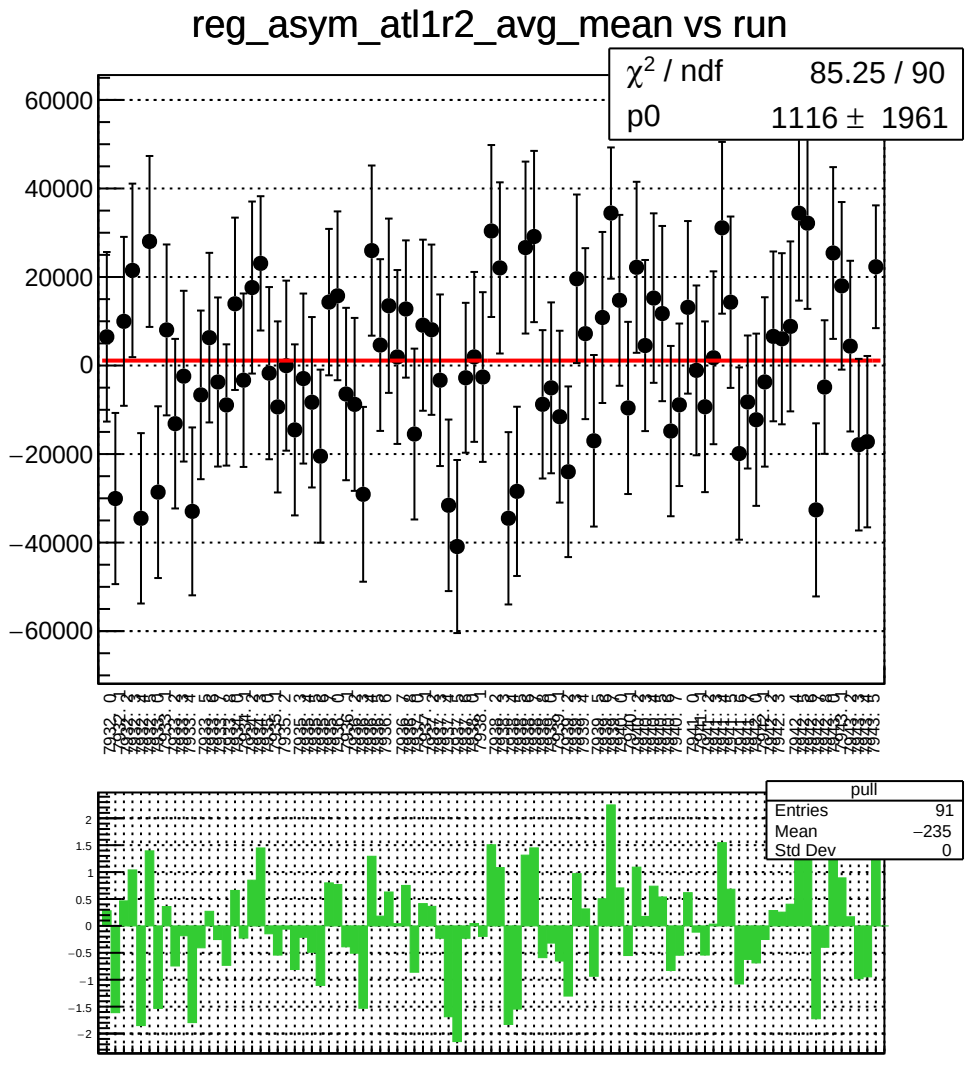

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.227e+04 / 90
p0 134.8 ± 0.1029
180
160
140
120
100

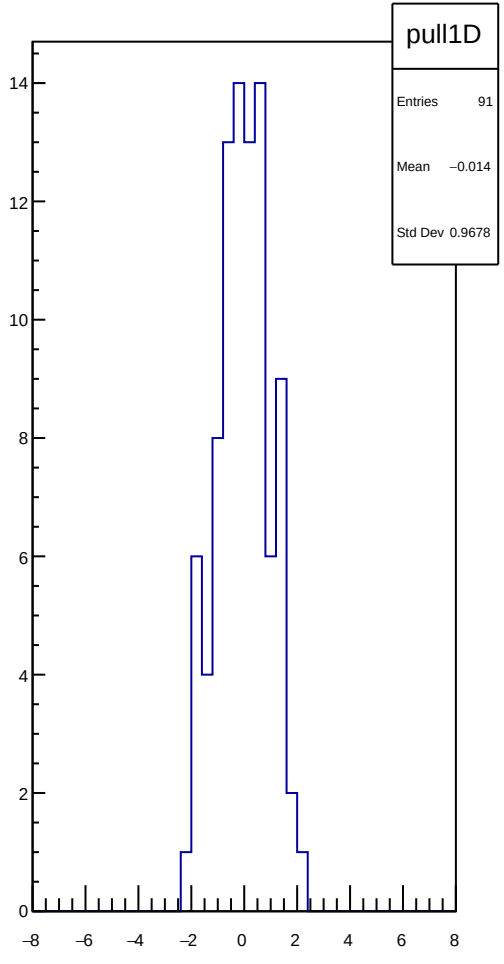

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 90
p0 −0.1162 ± 0.1456
pull
Entries 91
Mean 80.31
Std Dev 0
pull1D
Entries 91
Mean 0.01408
Std Dev 1.058

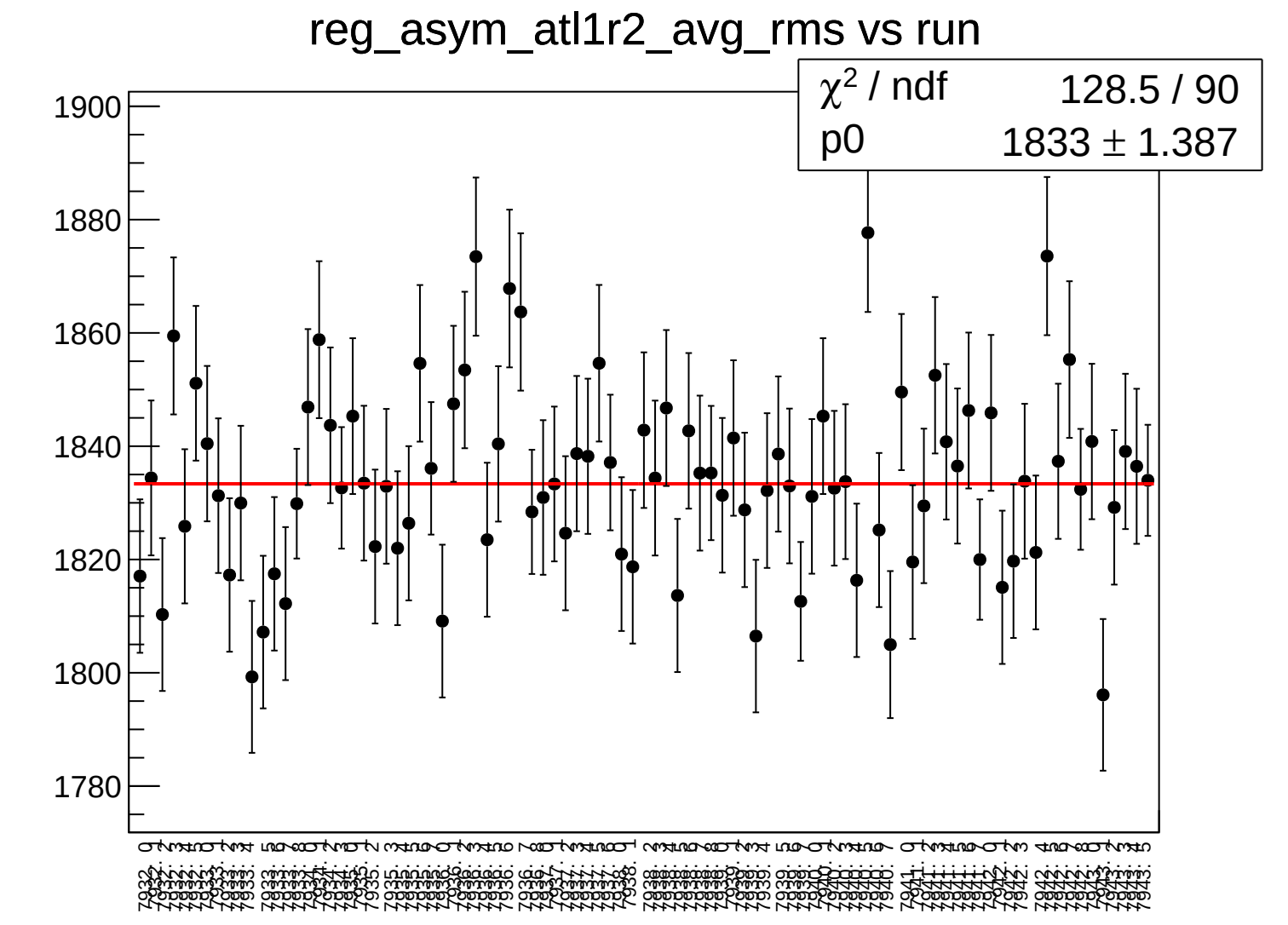

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.227e+04 / 90
p0 134.8 ± 0.1029
180
160
140
120
100

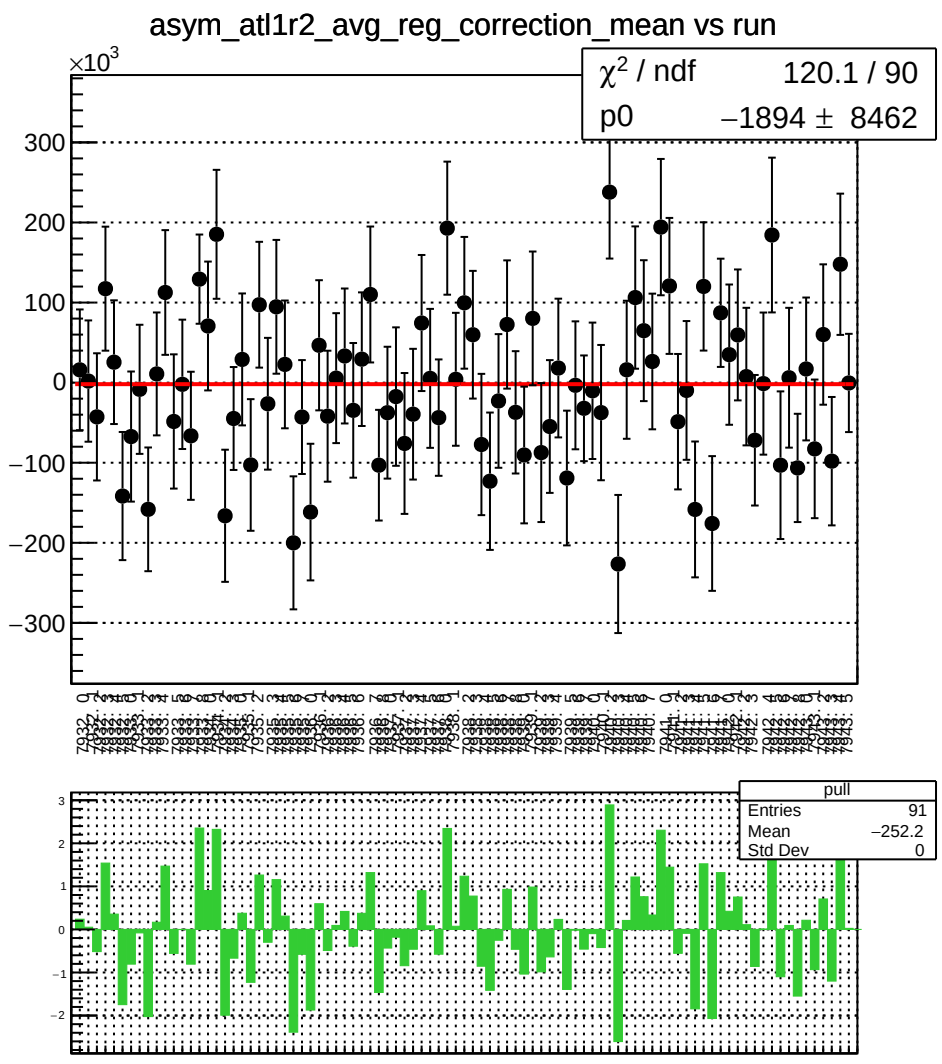

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.6 / 90
p0 3.328e−13 ± 3.147e−13
pull
Entries 91
Mean 98.52
Std Dev 6.522
pull1D
Entries 91
Mean −0.03936
Std Dev 1.081

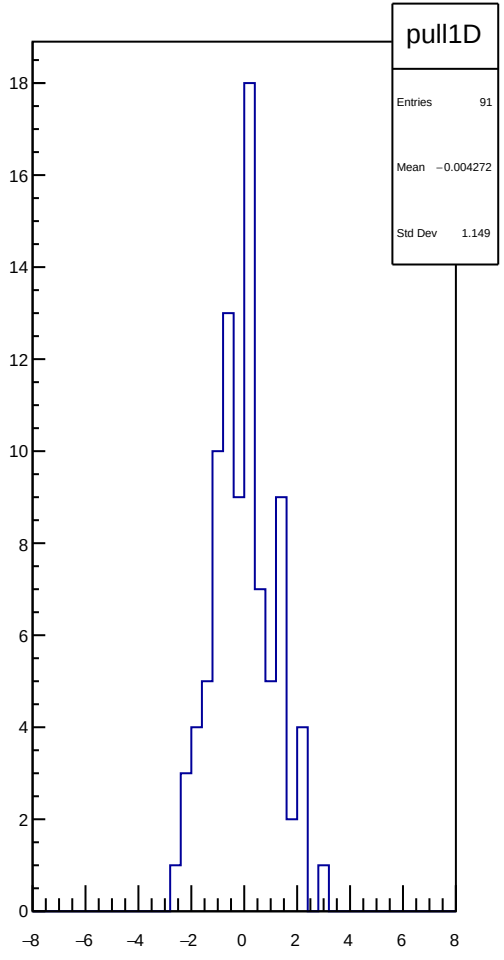

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.485e+05 / 90
p0 2.225e−10 ± 2.225e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

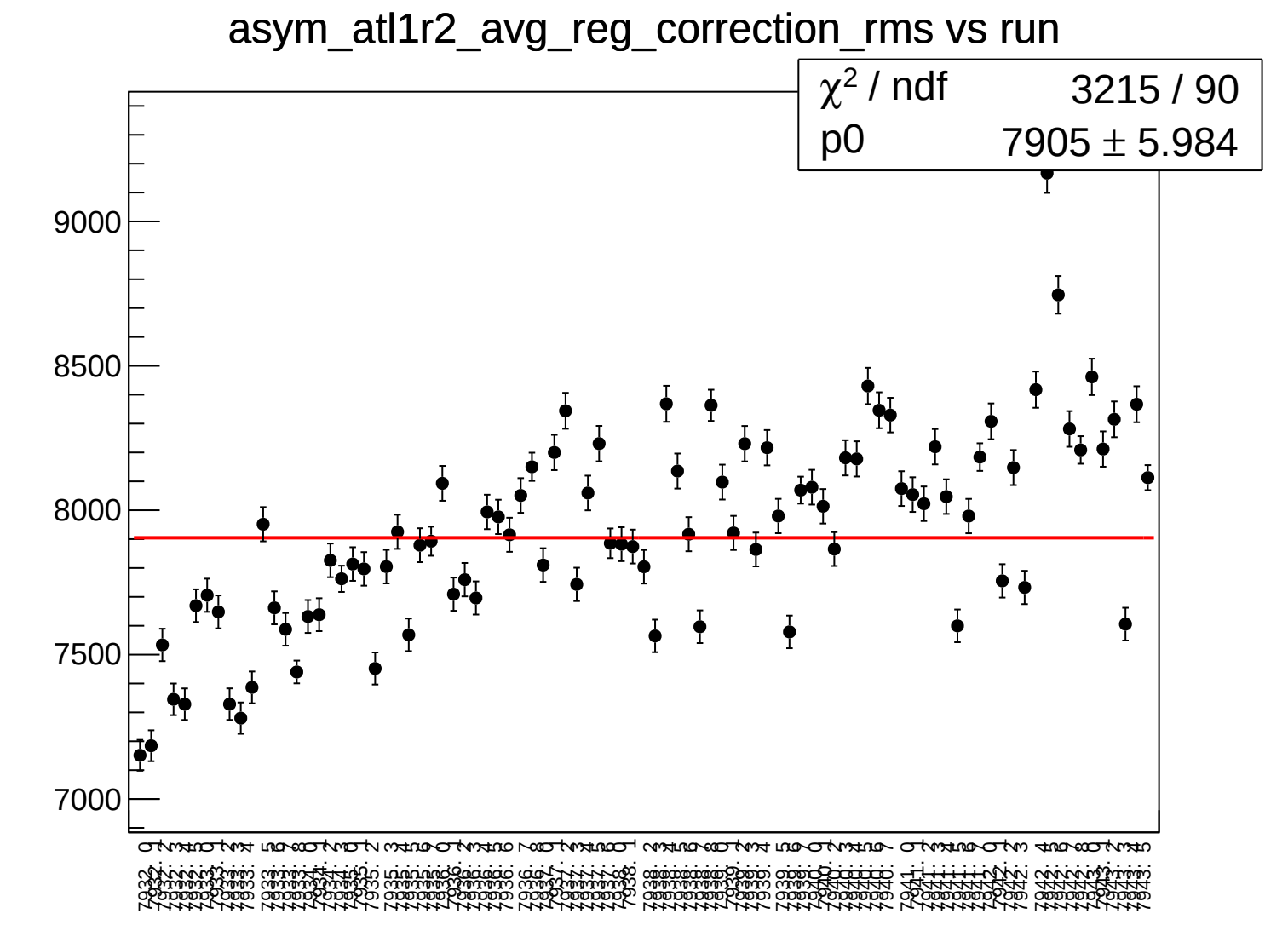

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 85.25 / 90
p0 1116 ± 1961
pull
Entries 91
Mean −235
Std Dev 0

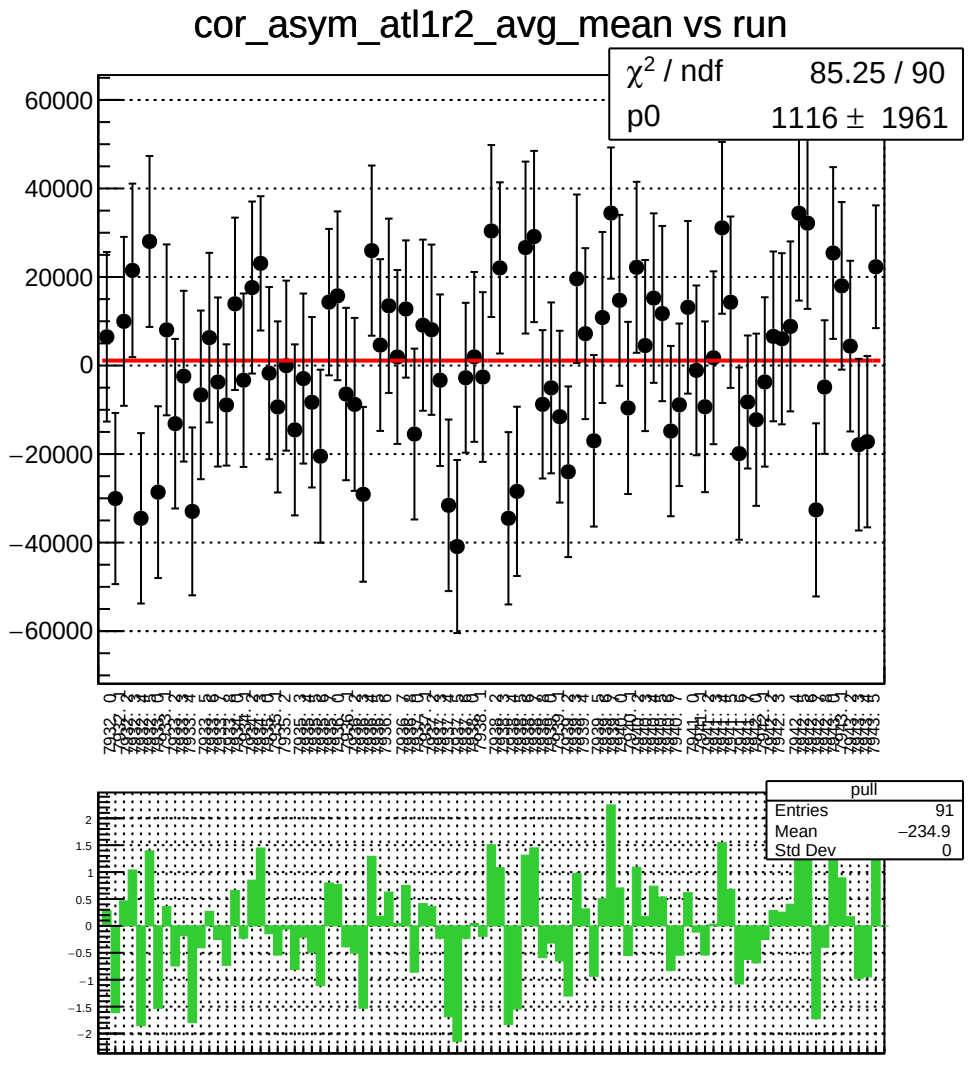

pull1D
Entries 91
Mean −0.014
Std Dev 0.9678

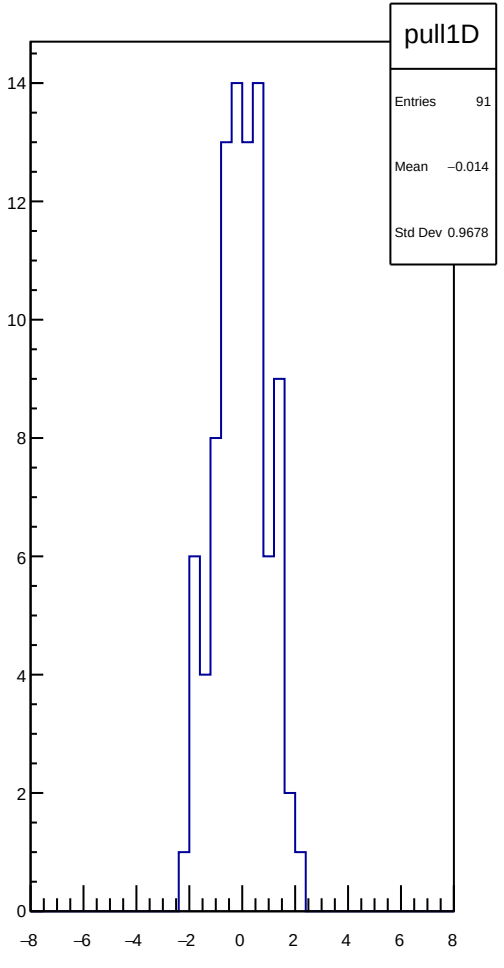

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 128.5 / 90
p0 1833 ± 1.387
1900
1880
1860
1840
1820
1800
1780

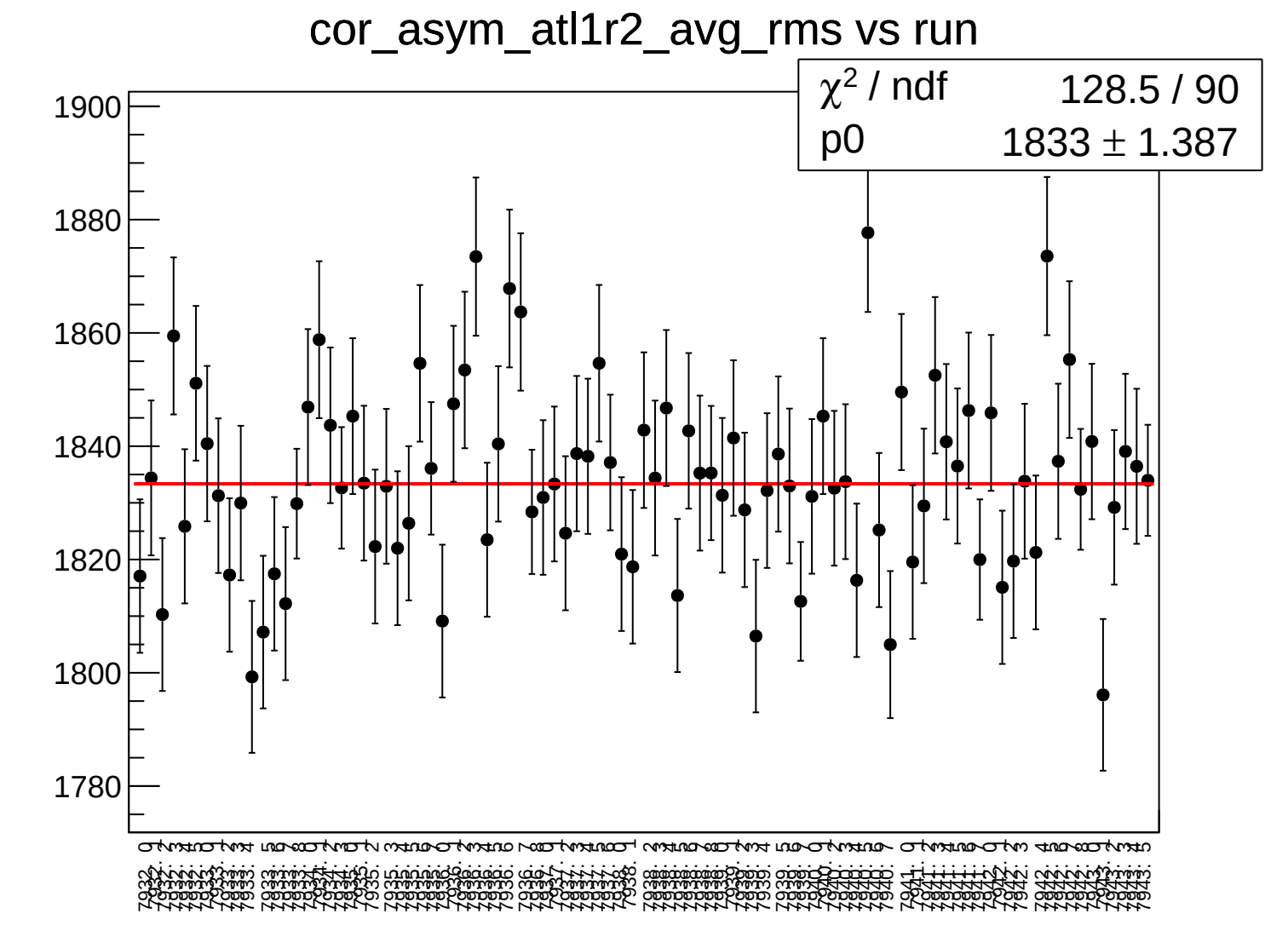

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −1894 ± 8462
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −252.2
Std Dev 0
3
2
1
0
−1
−2

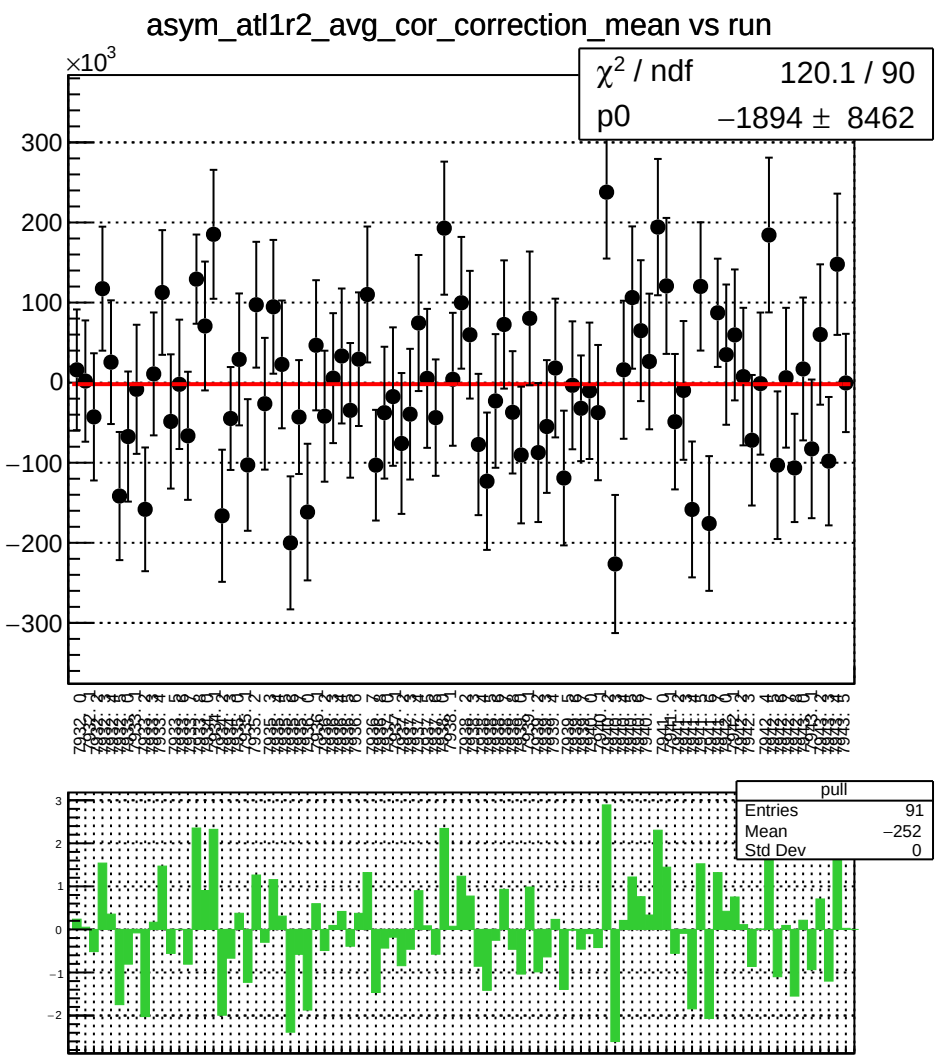

pull1D
Entries 91
Mean −0.004272
Std Dev 1.149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

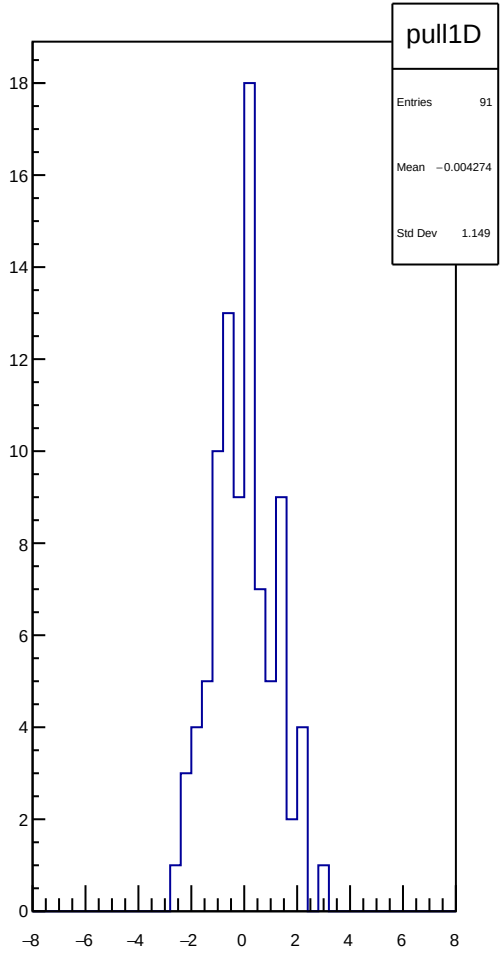

asym_atl1r2_avg_reg_correction_rms vs run
χ^2 / ndf 3215 / 90
p0 7905 ± 5.984
9000
8500
8000
7500
7000

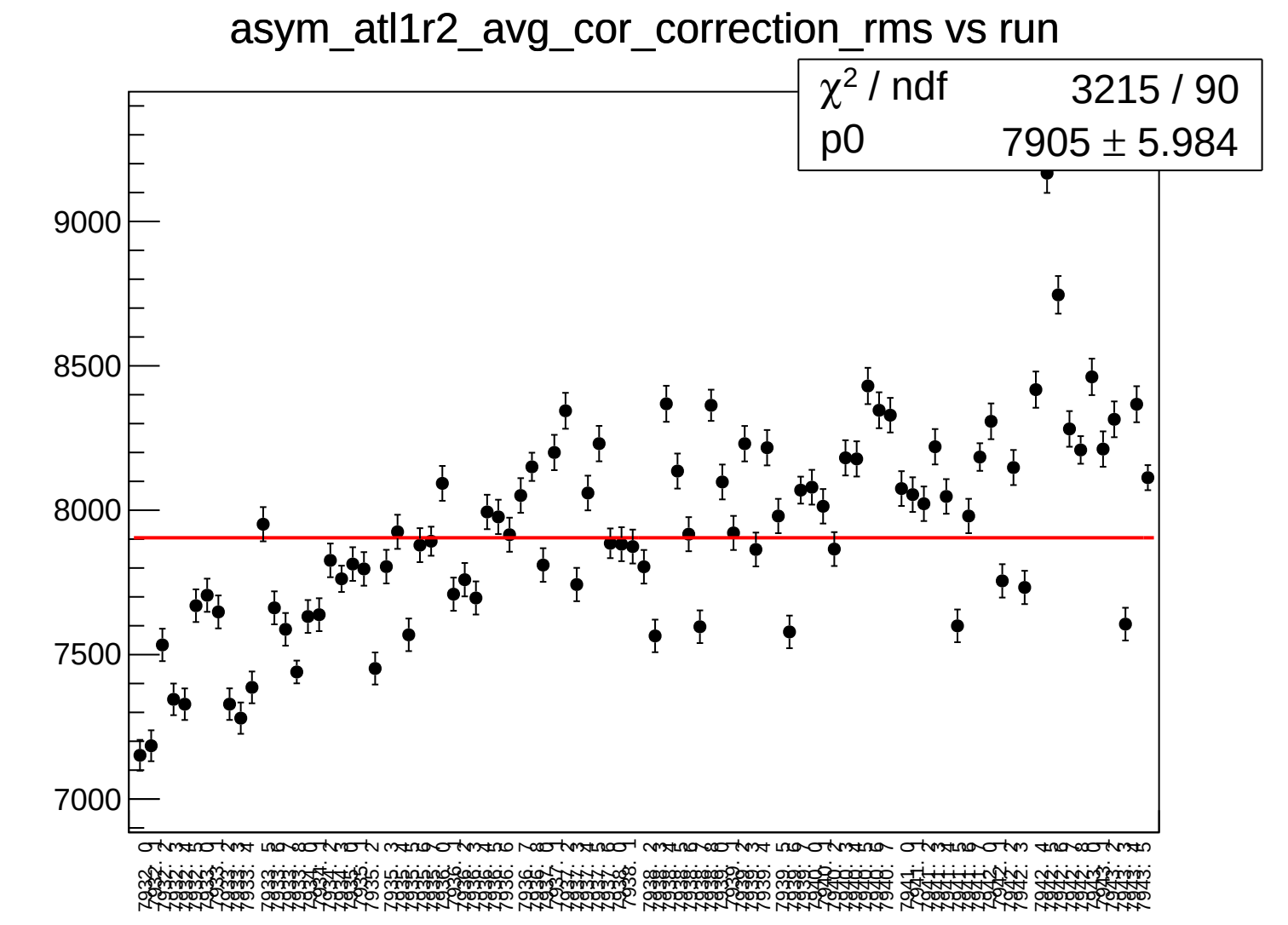

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 85.25 / 90
p0 1116 ± 1961
pull
Entries 91
Mean −234.9
Std Dev 0

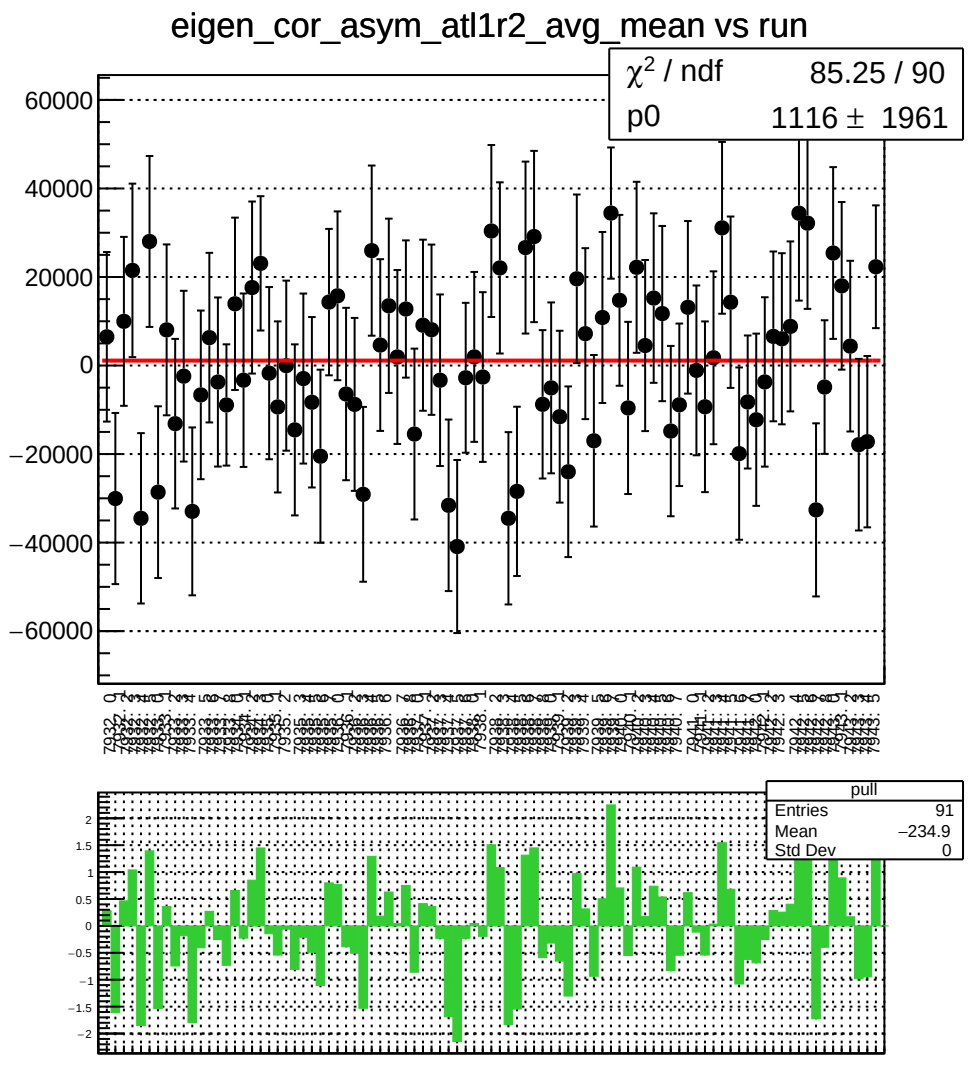

pull1D
Entries 91
Mean −0.014
Std Dev 0.9678

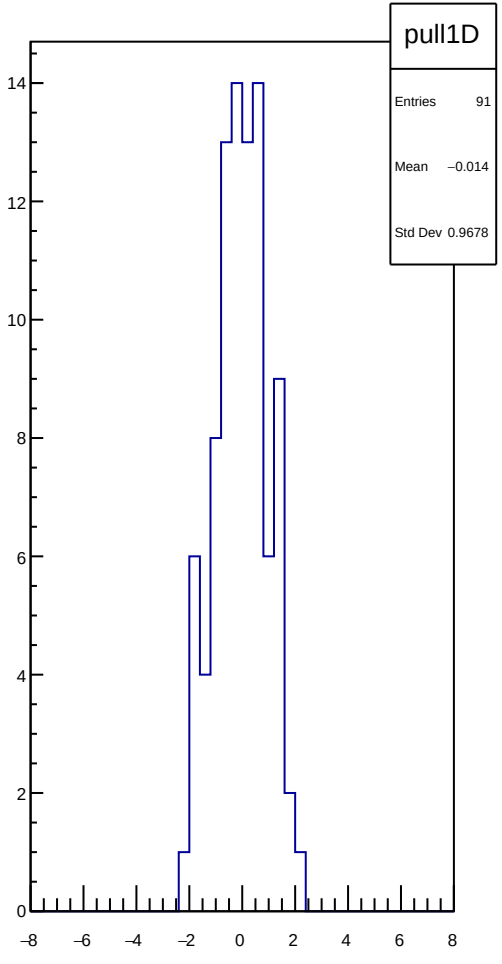

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 128.5 / 90
p0 1833 ± 1.387
1900
1880
1860
1840
1820
1800
1780

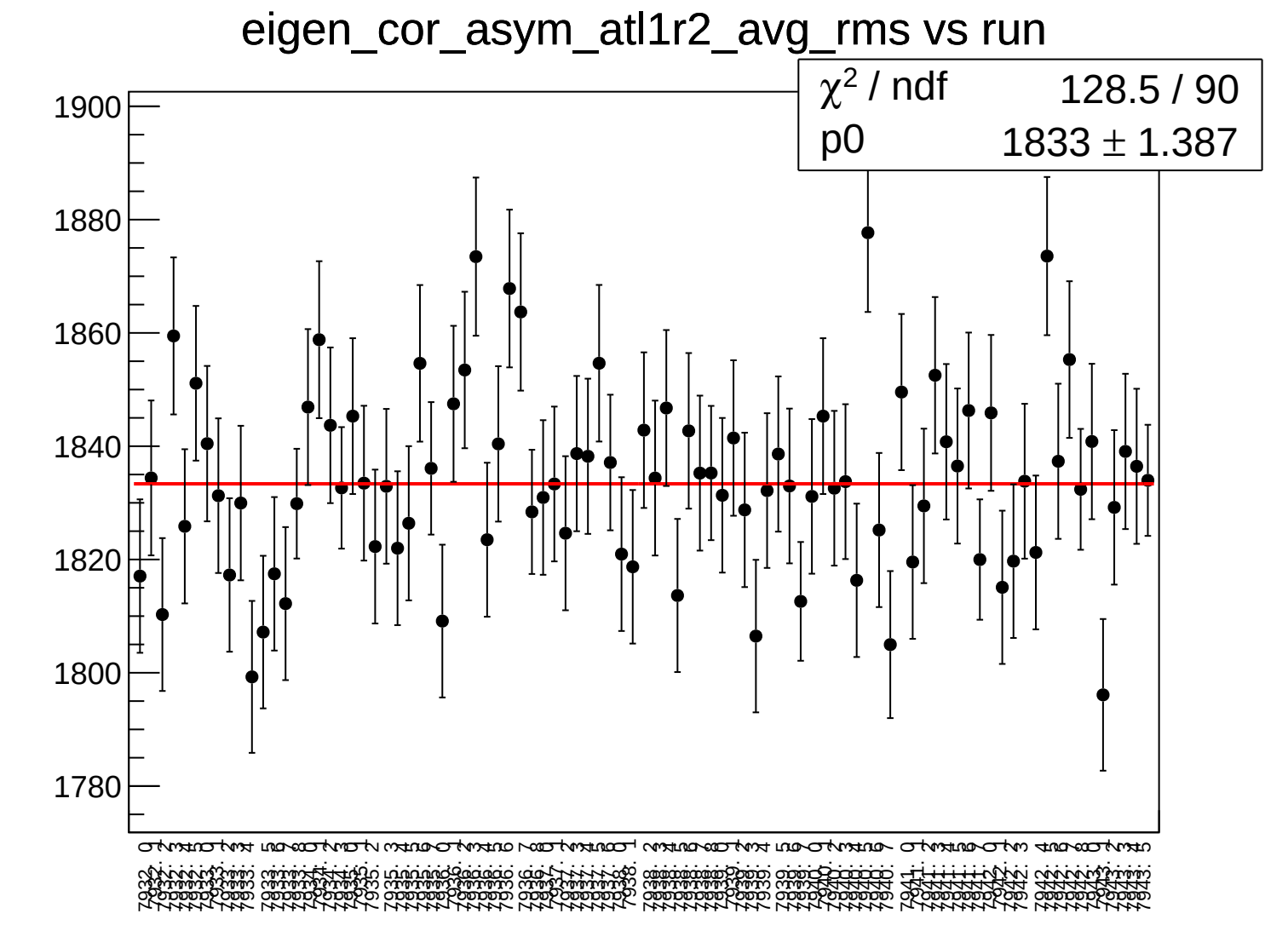

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −1894 ± 8462
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −252
Std Dev 0
3
2
1
0
−1
−2

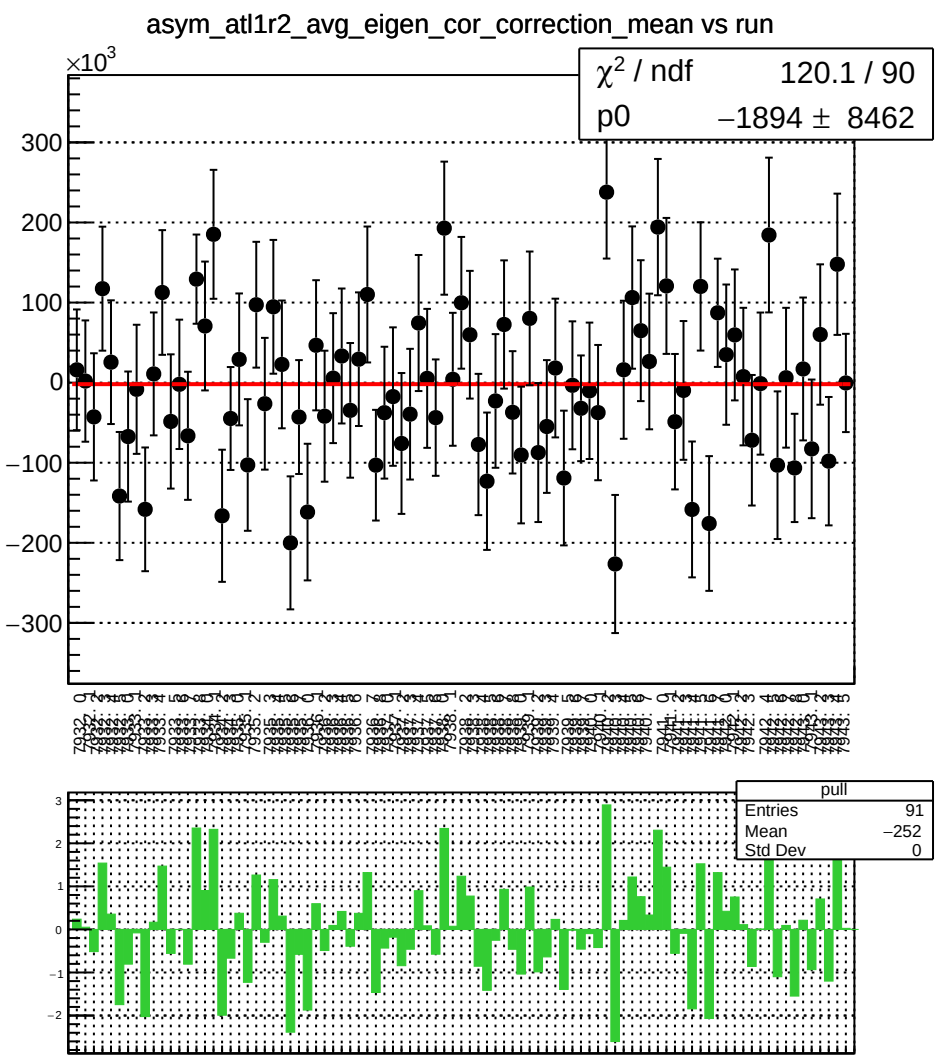

pull1D
Entries 91
Mean −0.004274
Std Dev 1.149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

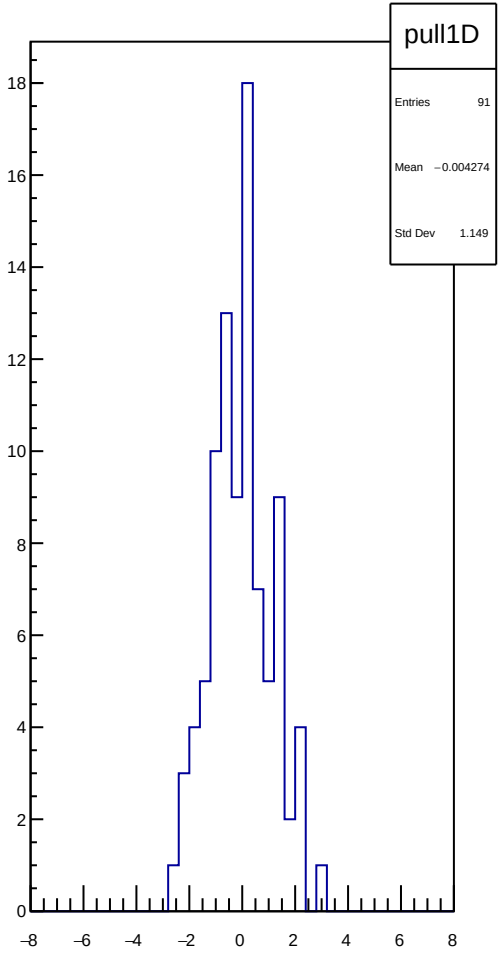

asym_atl1r2_avg_cor_correction_rms vs run
χ^2 / ndf 3215 / 90
p0 7905 ± 5.984
9000
8500
8000
7500
7000

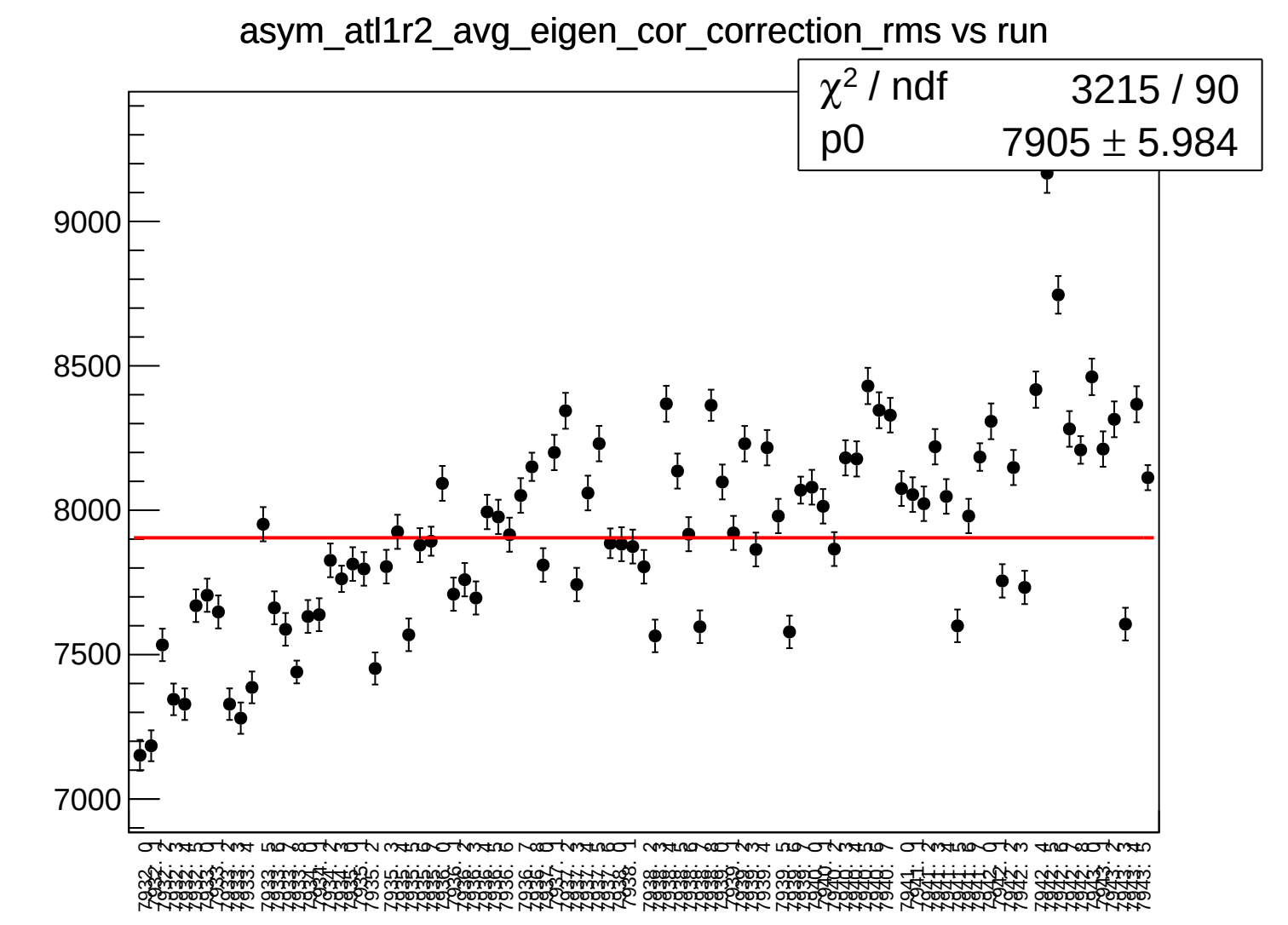

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 85.25 / 90
p0 1116 ± 1961
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −234.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

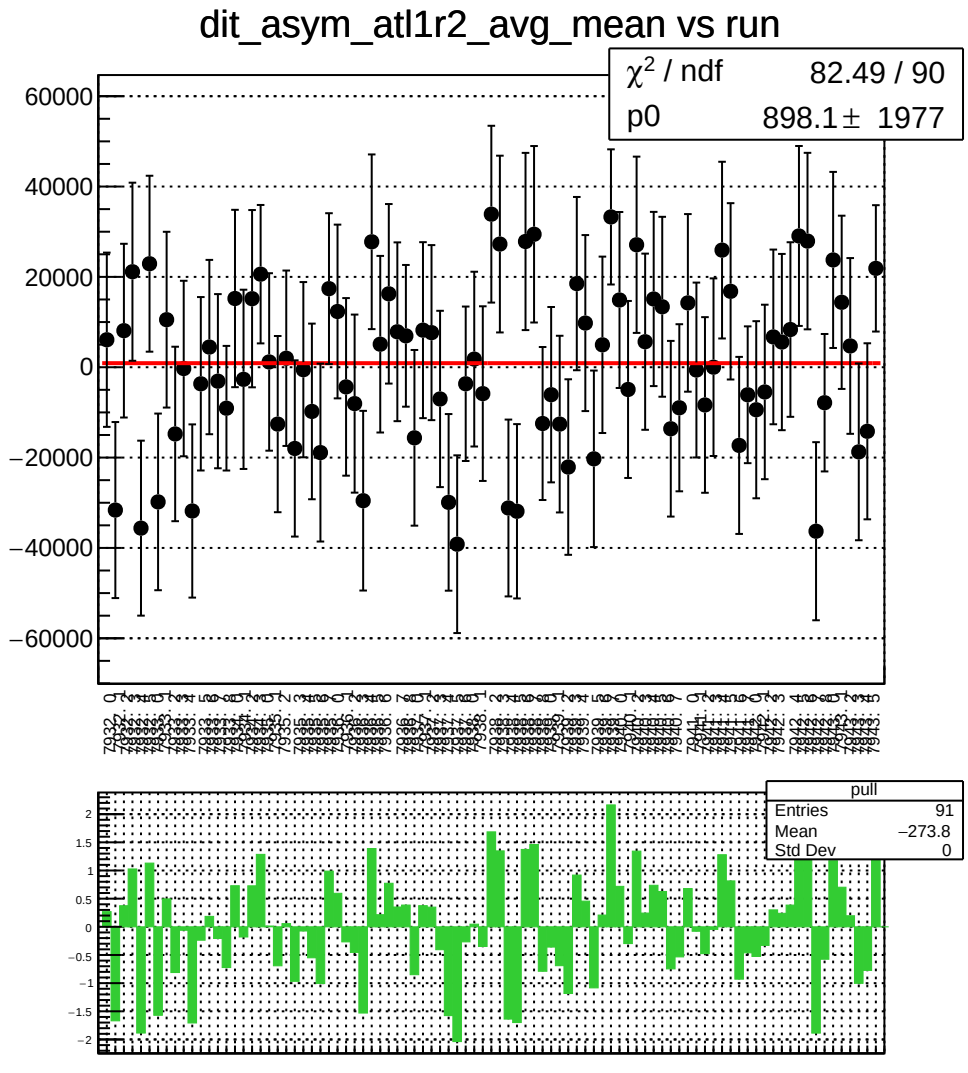

pull1D
Entries 91
Mean −0.014
Std Dev 0.9678
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

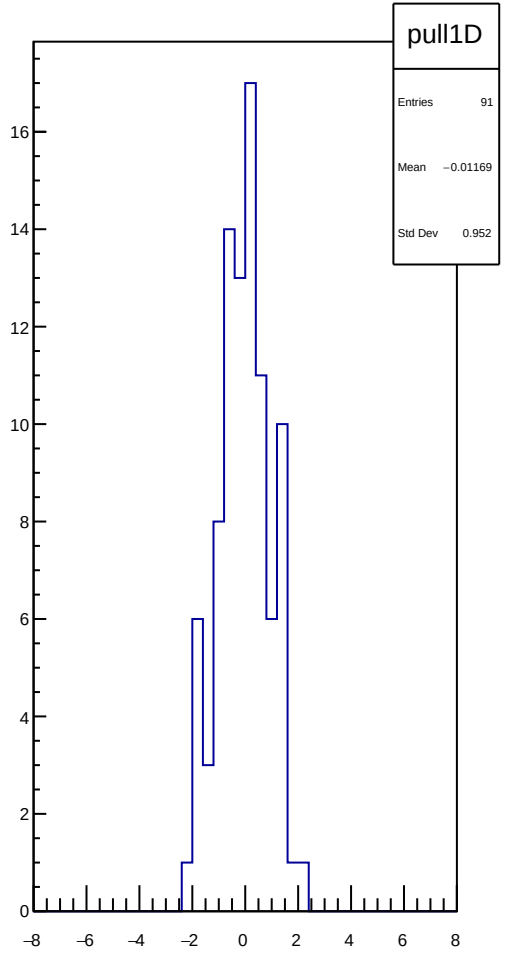

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 128.5 / 90
p0 1833 ± 1.387
1900
1880
1860
1840
1820
1800
1780

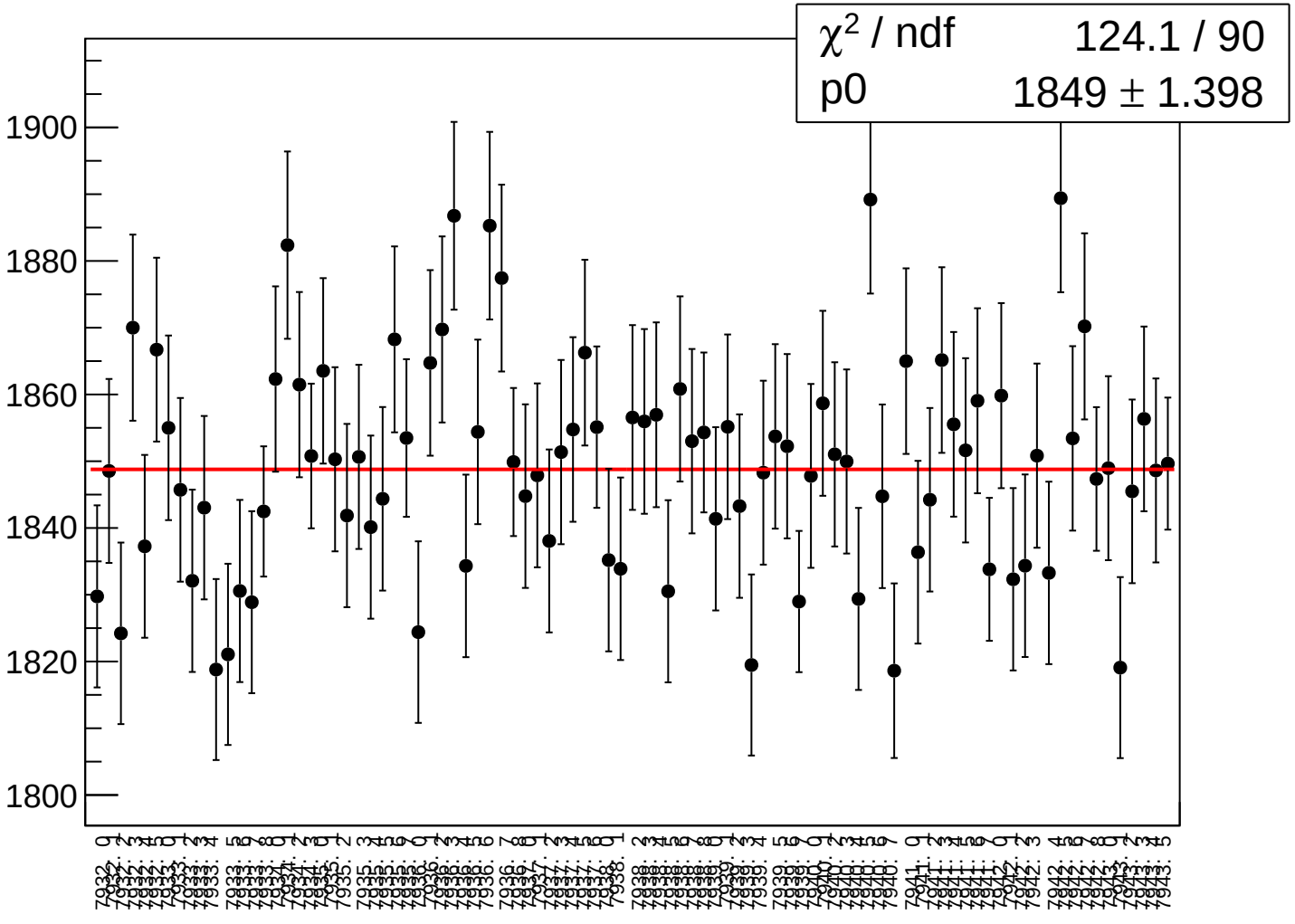

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −1894 ± 8462
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −252
Std Dev 0
3
2
1
0
−1
−2

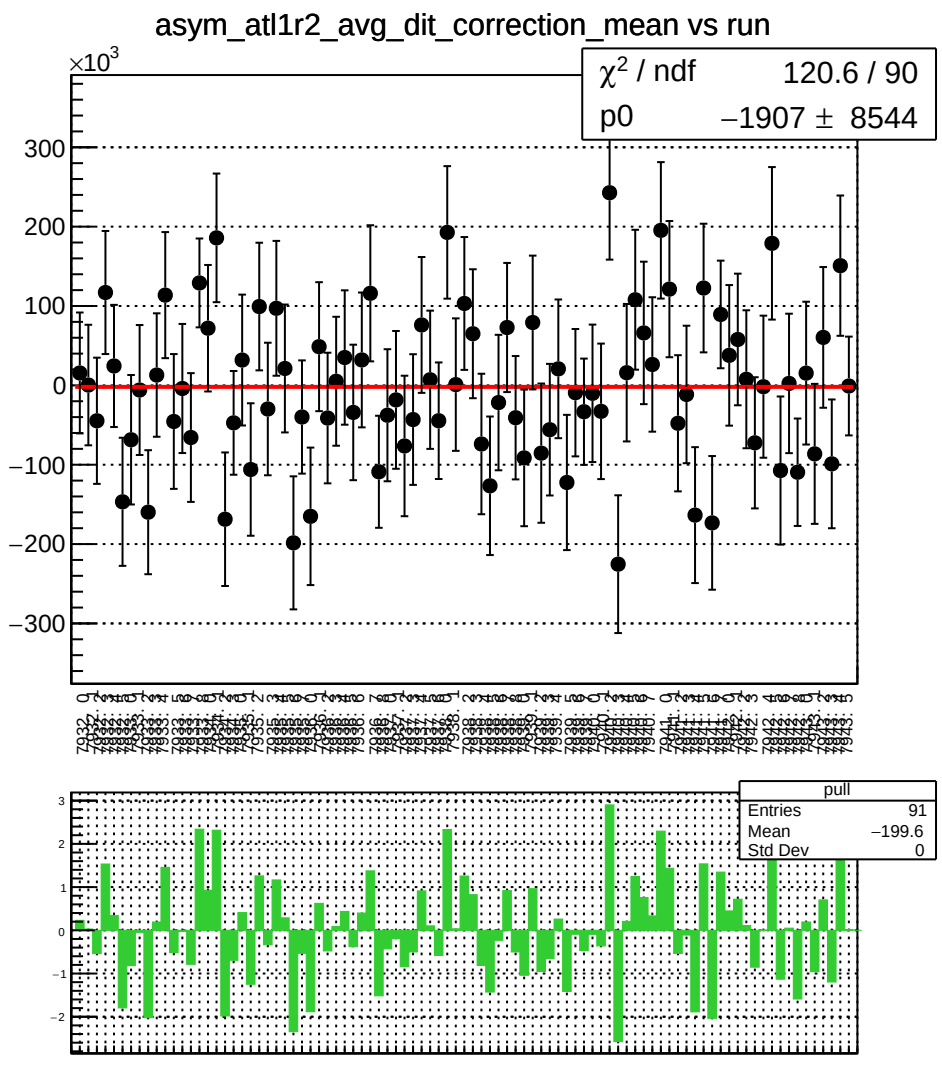

pull1D
Entries 91
Mean −0.004274
Std Dev 1.149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

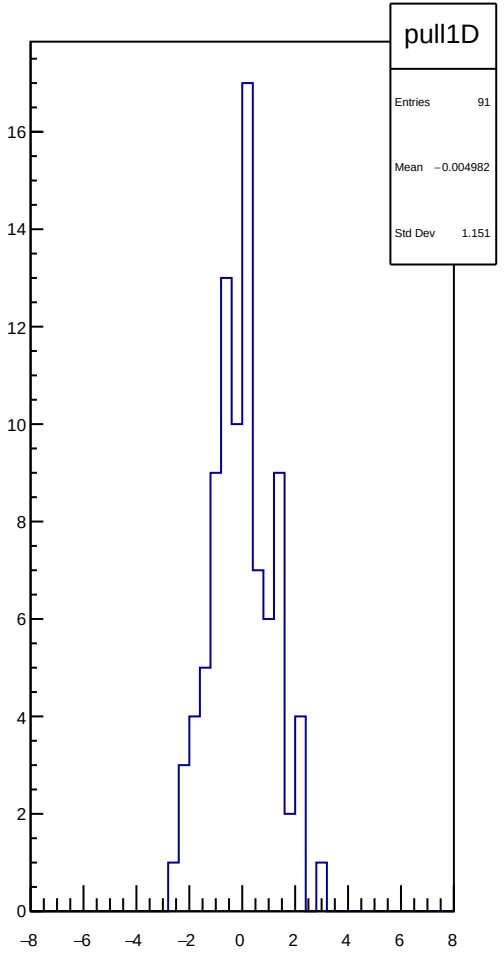

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3215 / 90
p0 7905 ± 5.984
9000
8500
8000
7500
7000

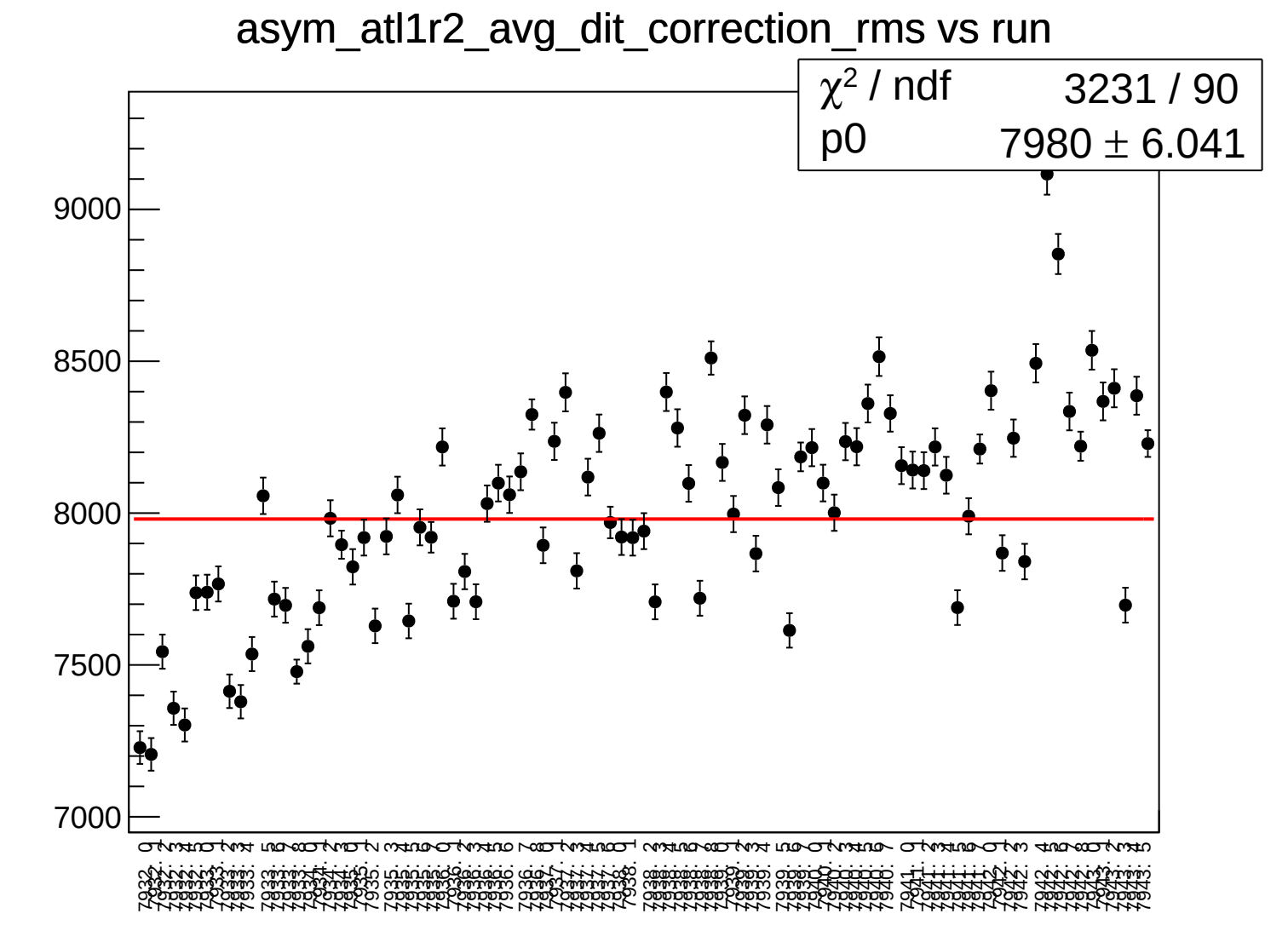

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 82.49 / 90
p0 898.1 ± 1977
pull
Entries 91
Mean −273.8
Std Dev 0

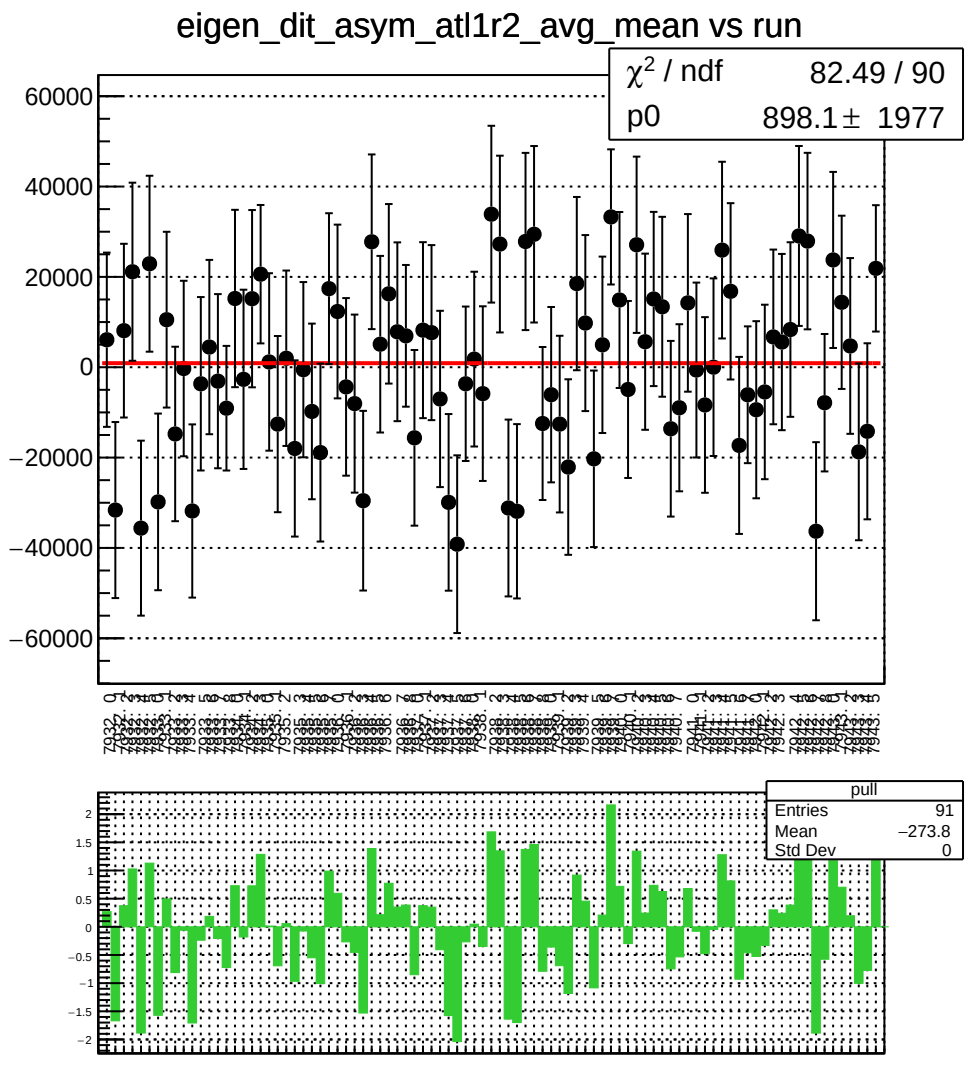

pull1D
Entries 91
Mean −0.01169
Std Dev 0.952

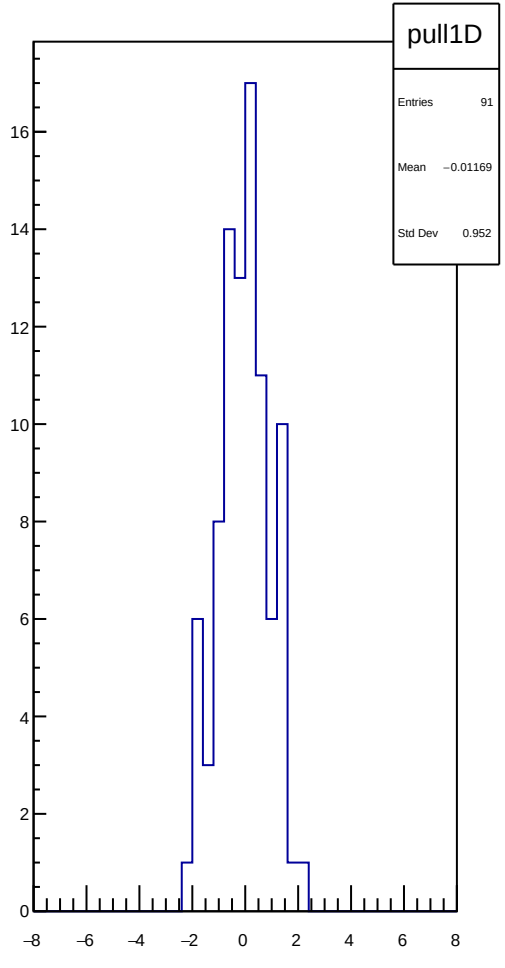

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 124.1 / 90
p0 1849 ± 1.398
1900
1880
1860
1840
1820
1800

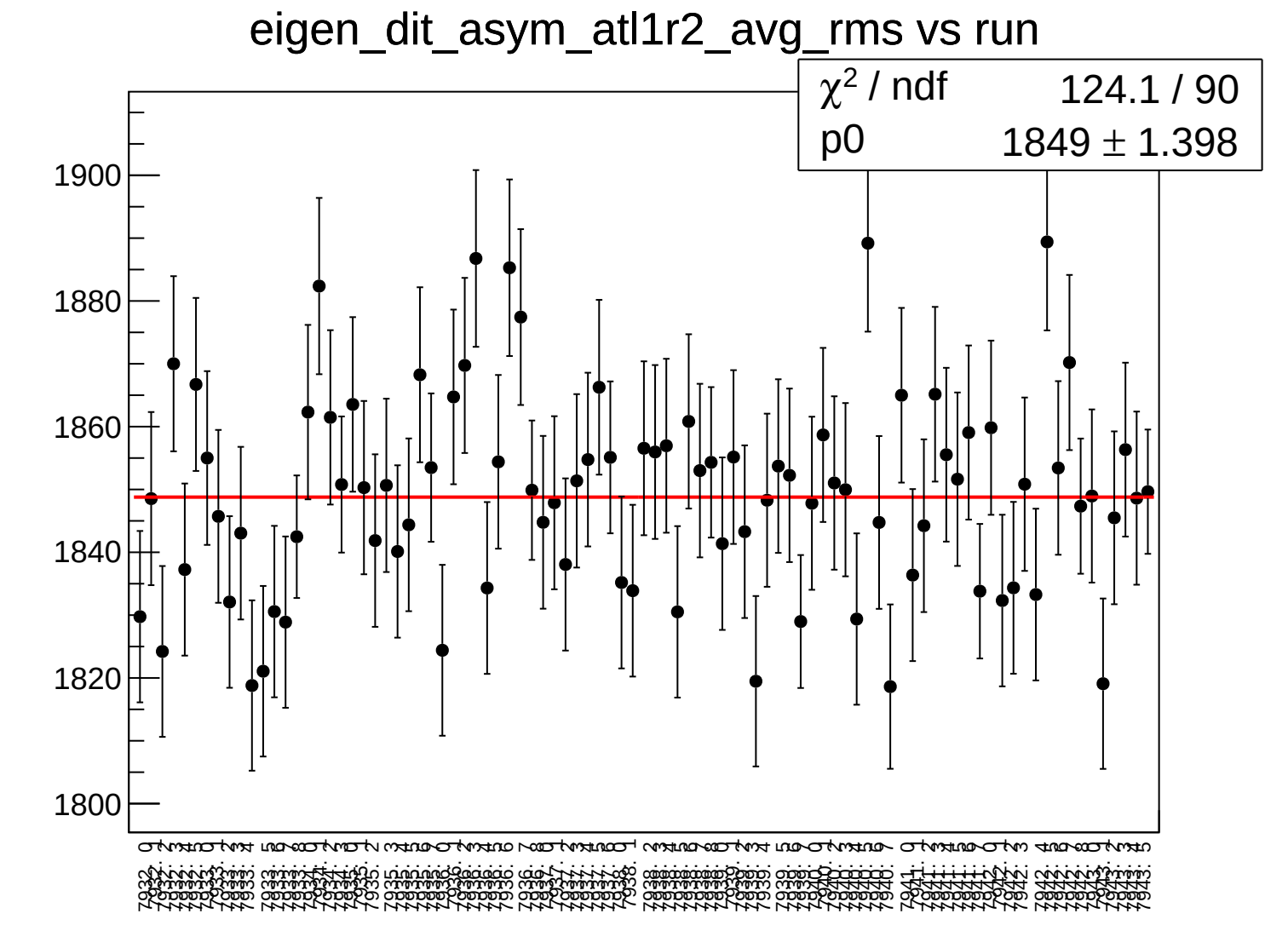

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 120.6 / 90
p0 −1907 ± 8544
×10³
pull
Entries 91
Mean −199.6
Std Dev 0

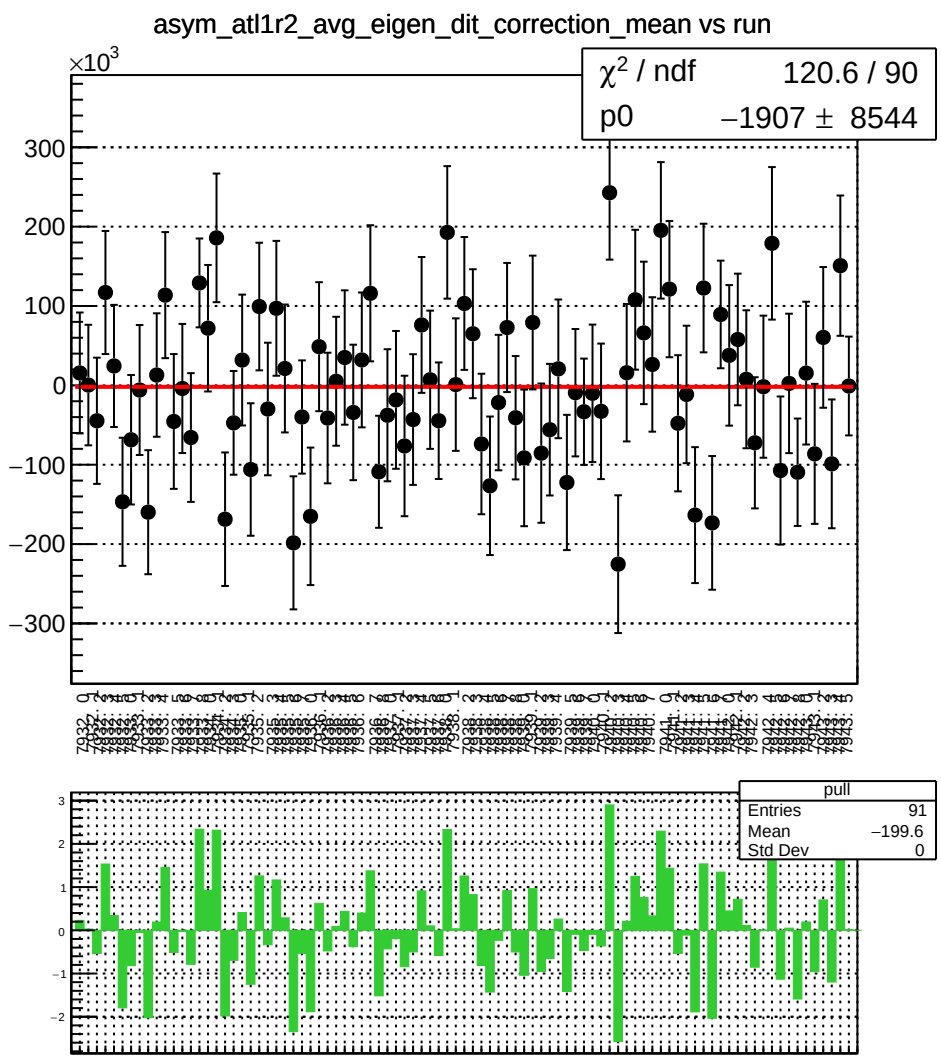

pull1D
Entries 91
Mean −0.004982
Std Dev 1.151

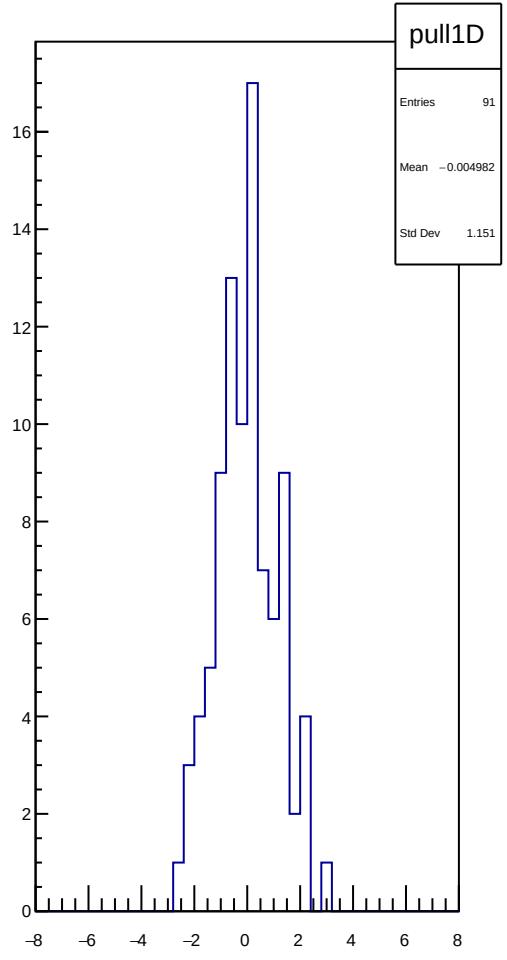

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3231 / 90
p0 7980 ± 6.041
9000
8500
8000
7500
7000

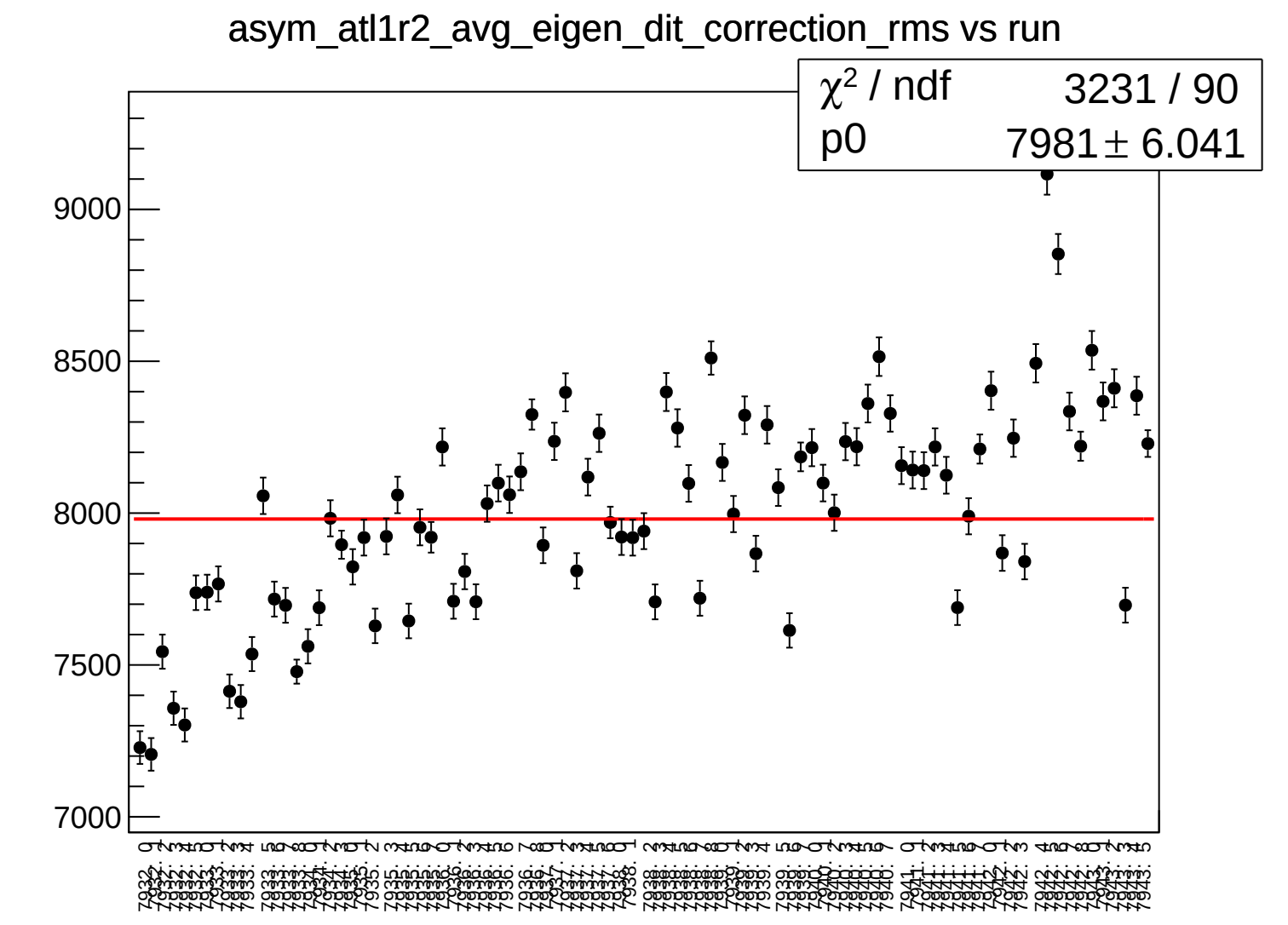

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 82.49 / 90
p0 898.1 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −273.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

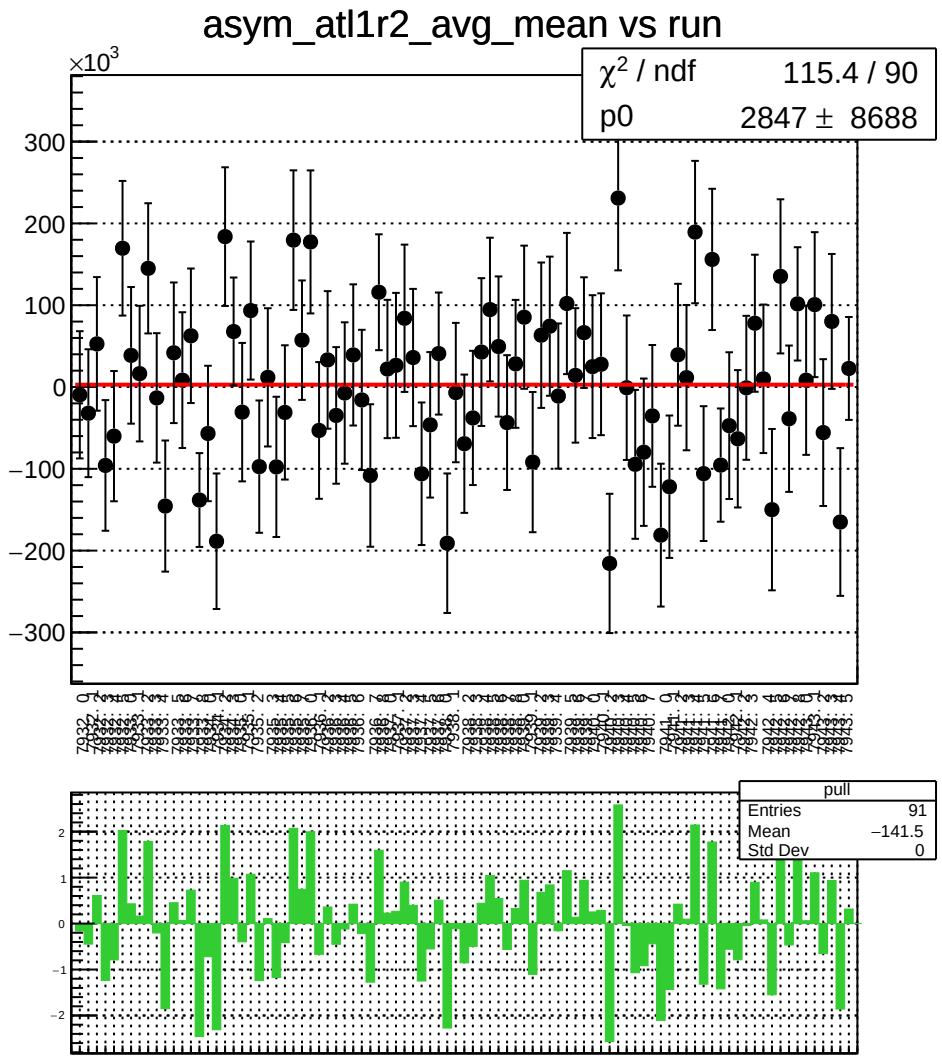

pull1D
Entries 91
Mean −0.01169
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

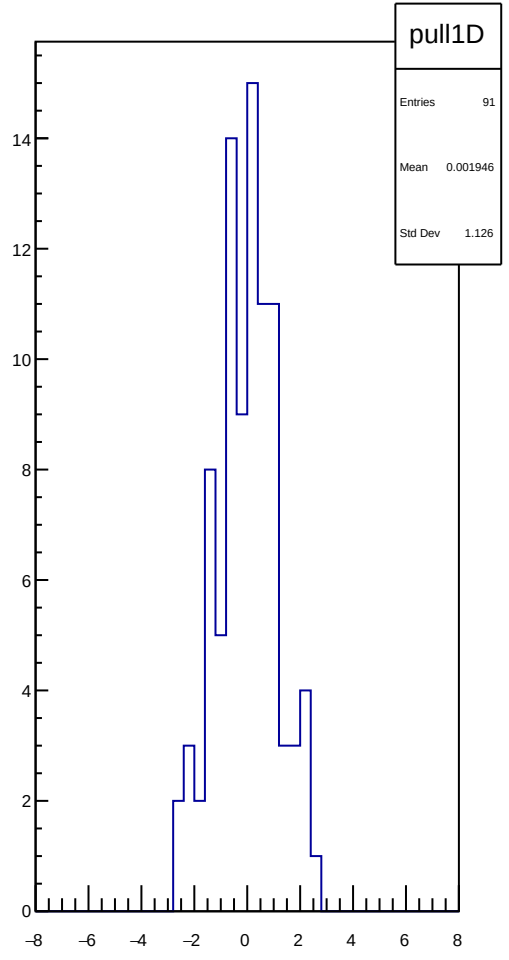

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 124.1 / 90
p0 1849 ± 1.398
1900
1880
1860
1840
1820
1800

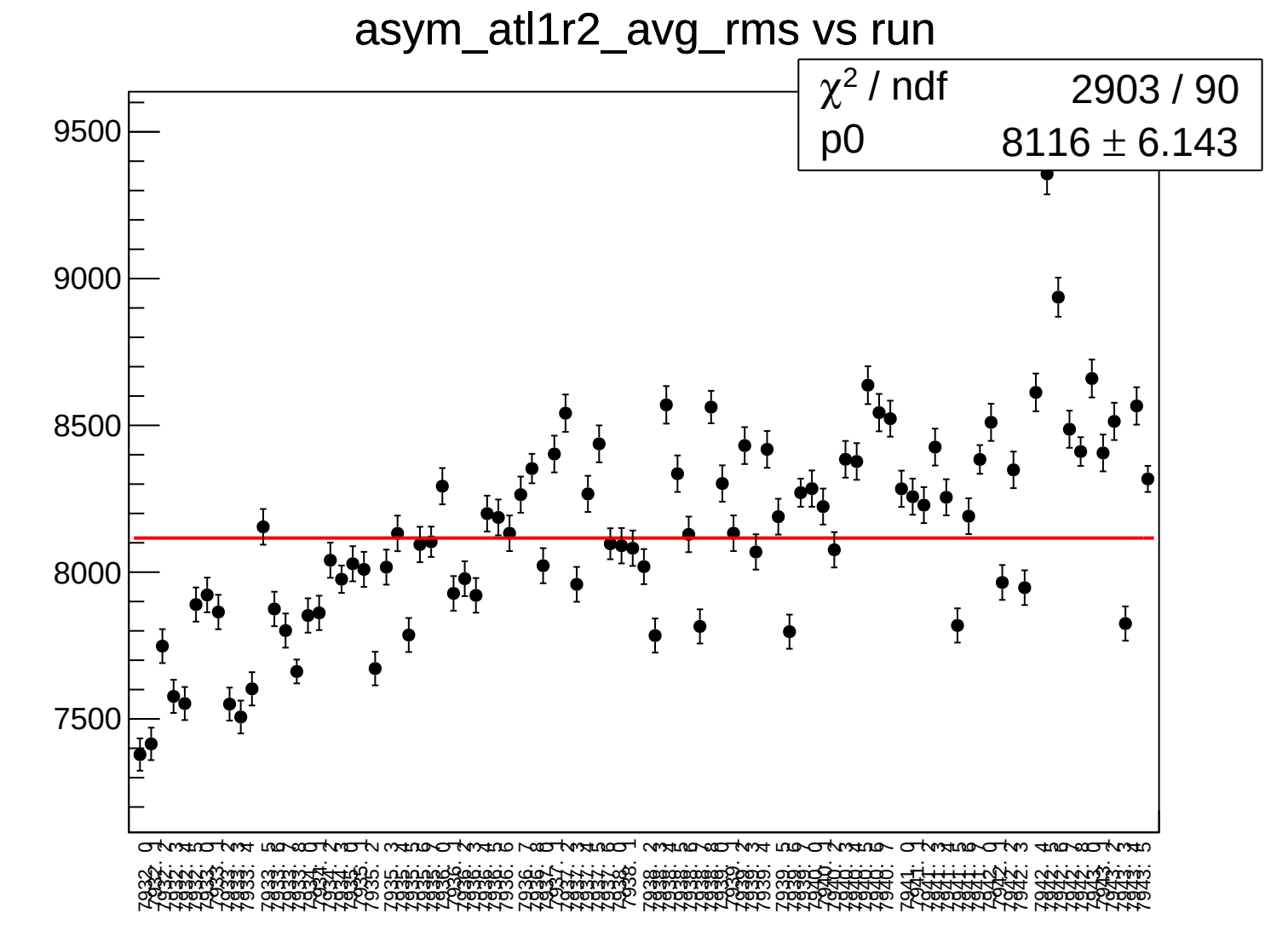

asym_atl1r2_avg_eigen_dit_correction_mean vs run
χ² / ndf 120.6 / 90
p0 −1907 ± 8544
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −199.6
Std Dev 0
3
2
1
0
−1
−2

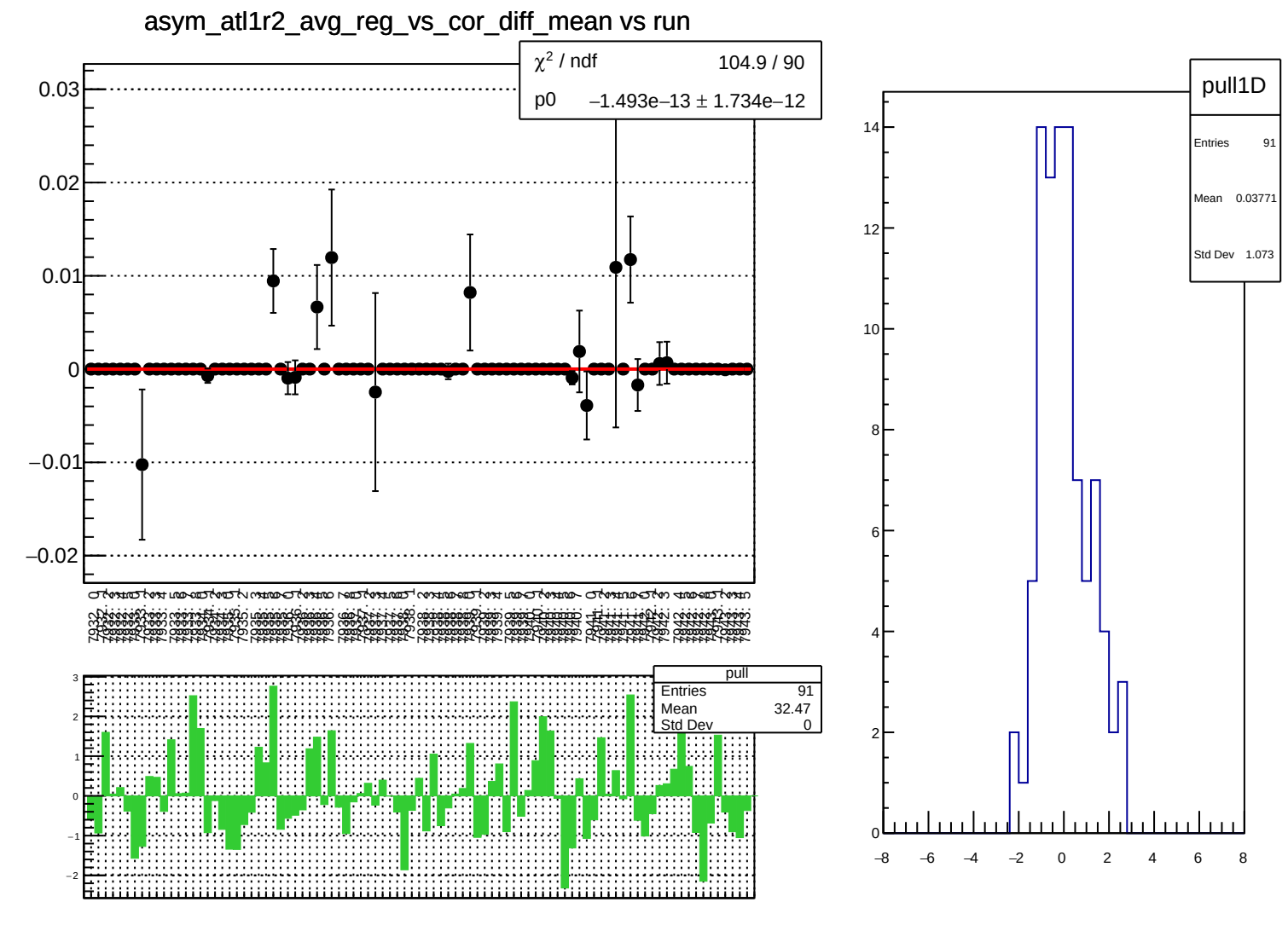

pull1D
Entries 91
Mean −0.004982
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

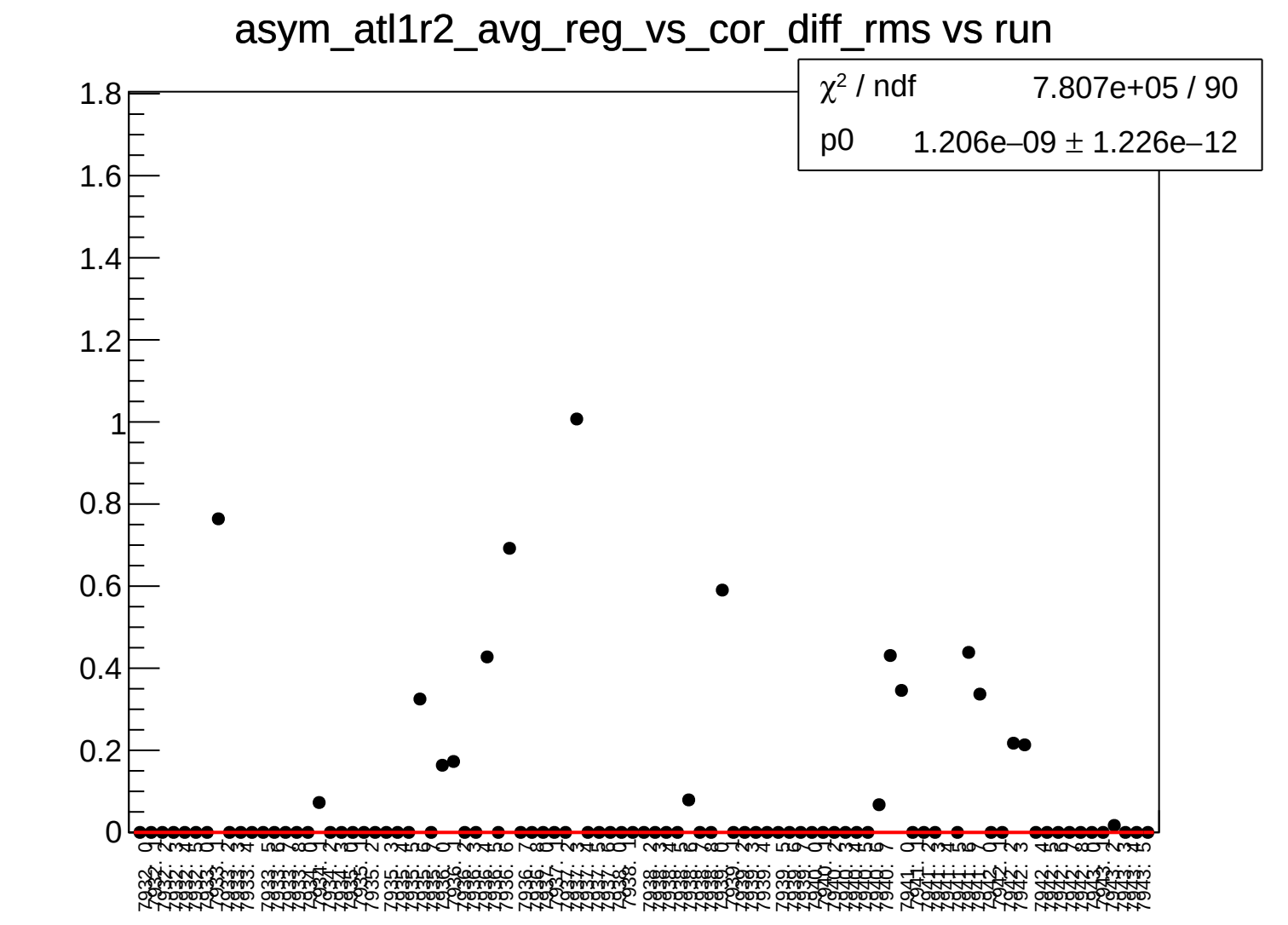

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3231 / 90
p0 7981 ± 6.041
9000
8500
8000
7500
7000

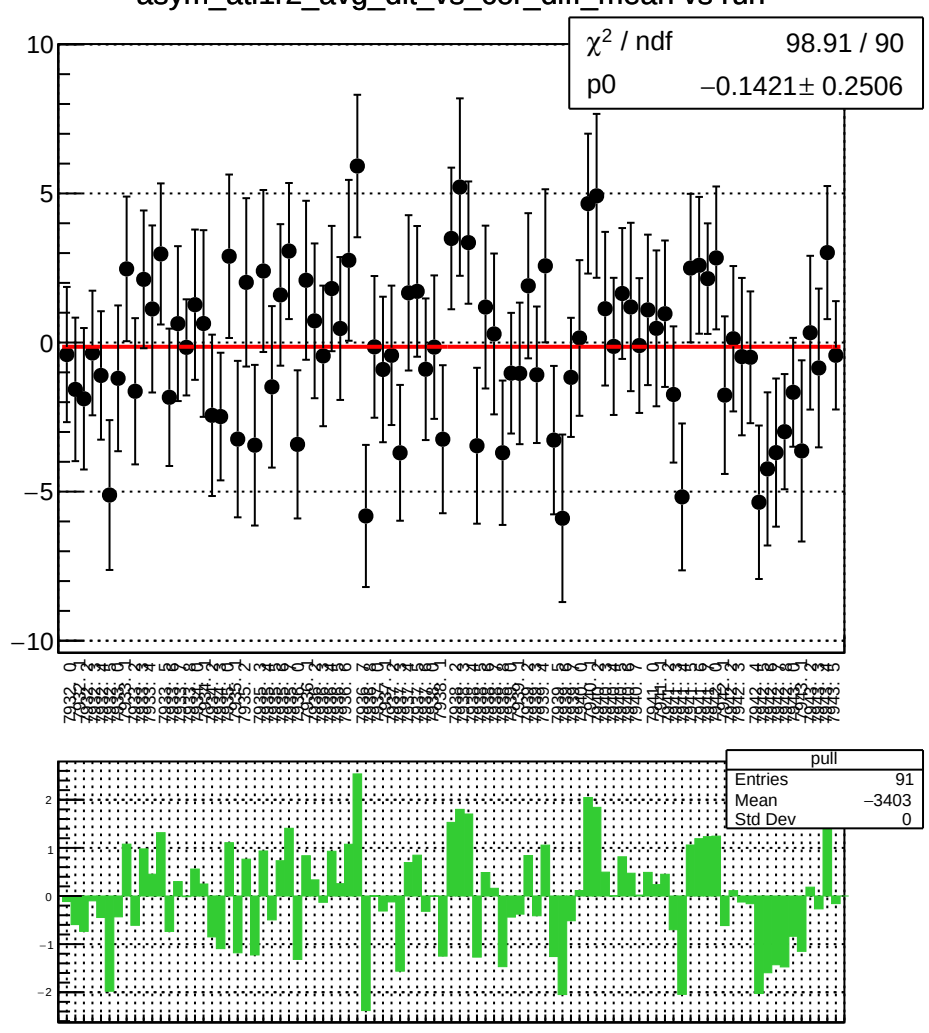

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 115.4 / 90
p0 2847 ± 8688
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −141.5
Std Dev 0
2
1
0
−1
−2

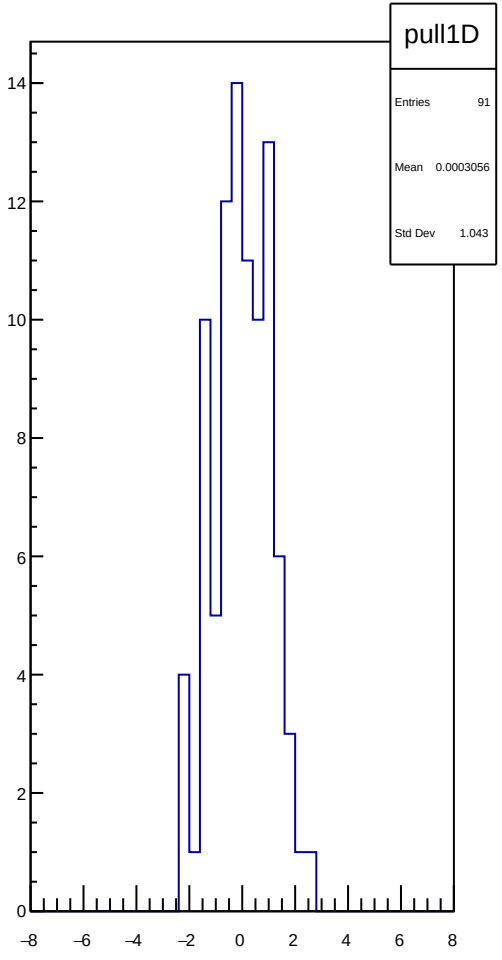

pull1D
Entries 91
Mean 0.001946
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

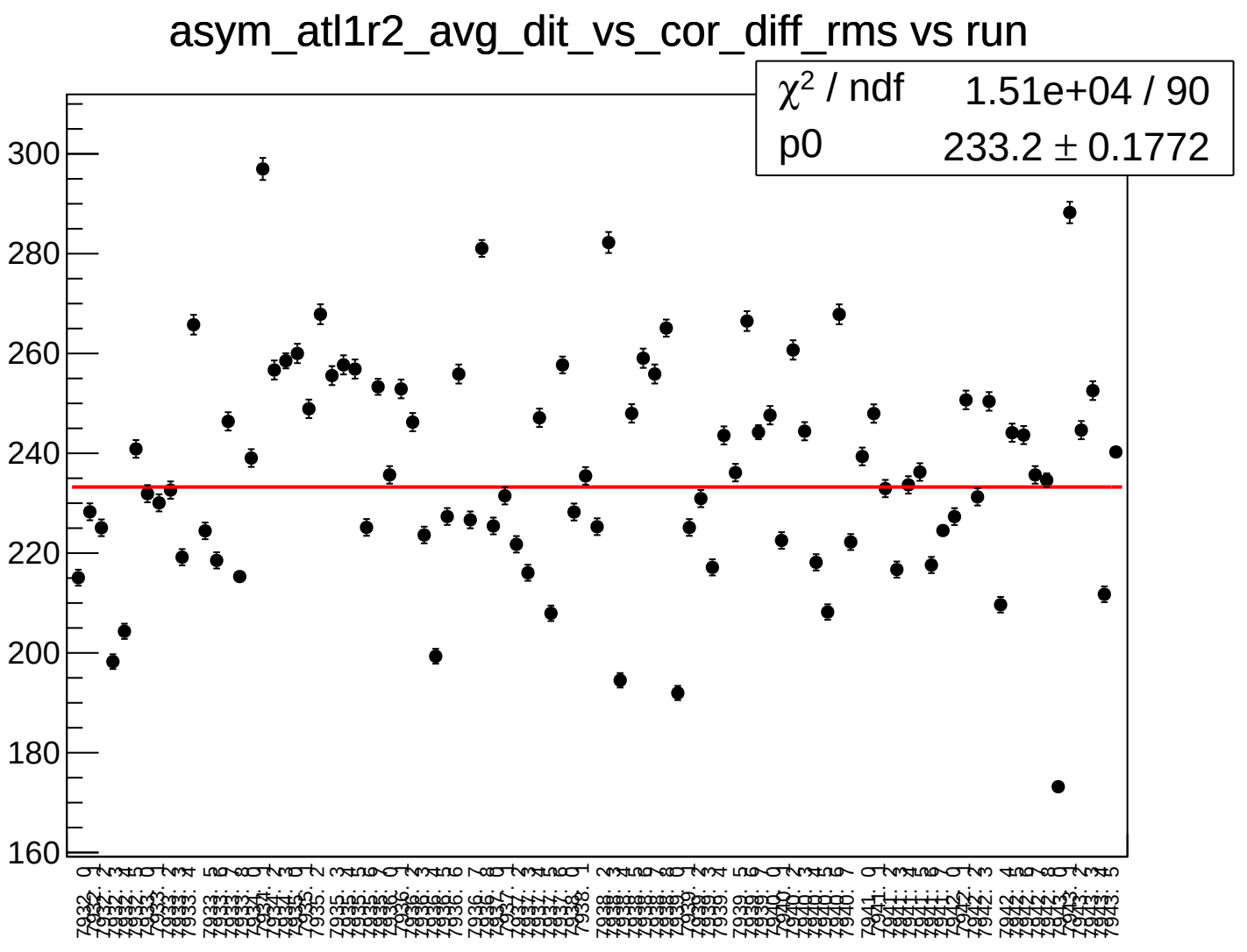

asym_atl1r2_avg_rms vs run
χ² / ndf 2903 / 90
p0 8116 ± 6.143
9500
9000
8500
8000
7500

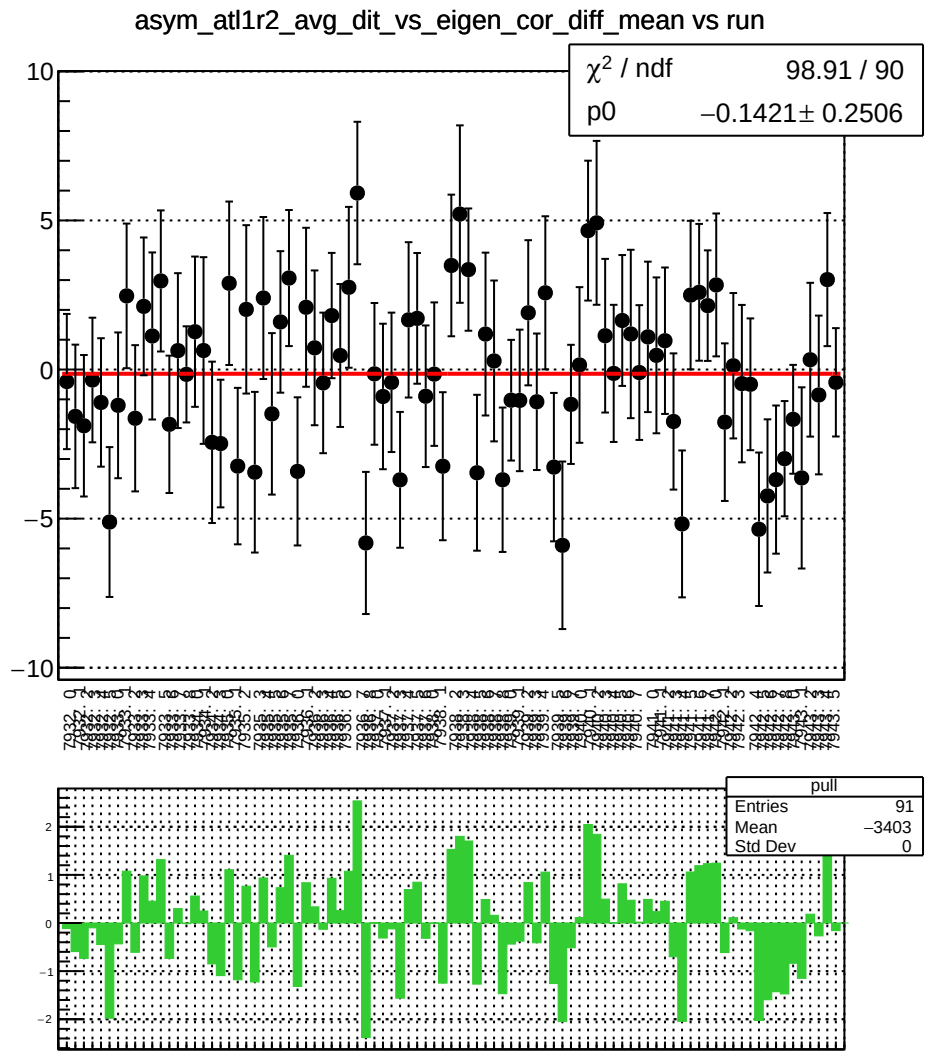

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 90
p0 −1.493e−13 ± 1.734e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 32.47
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.03771
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

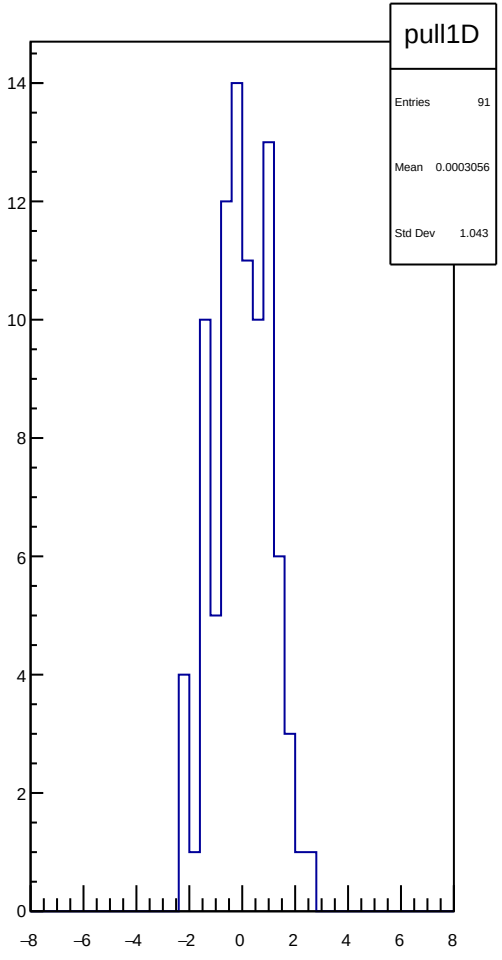

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.807e+05 / 90
p0 1.206e−09 ± 1.226e−12
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

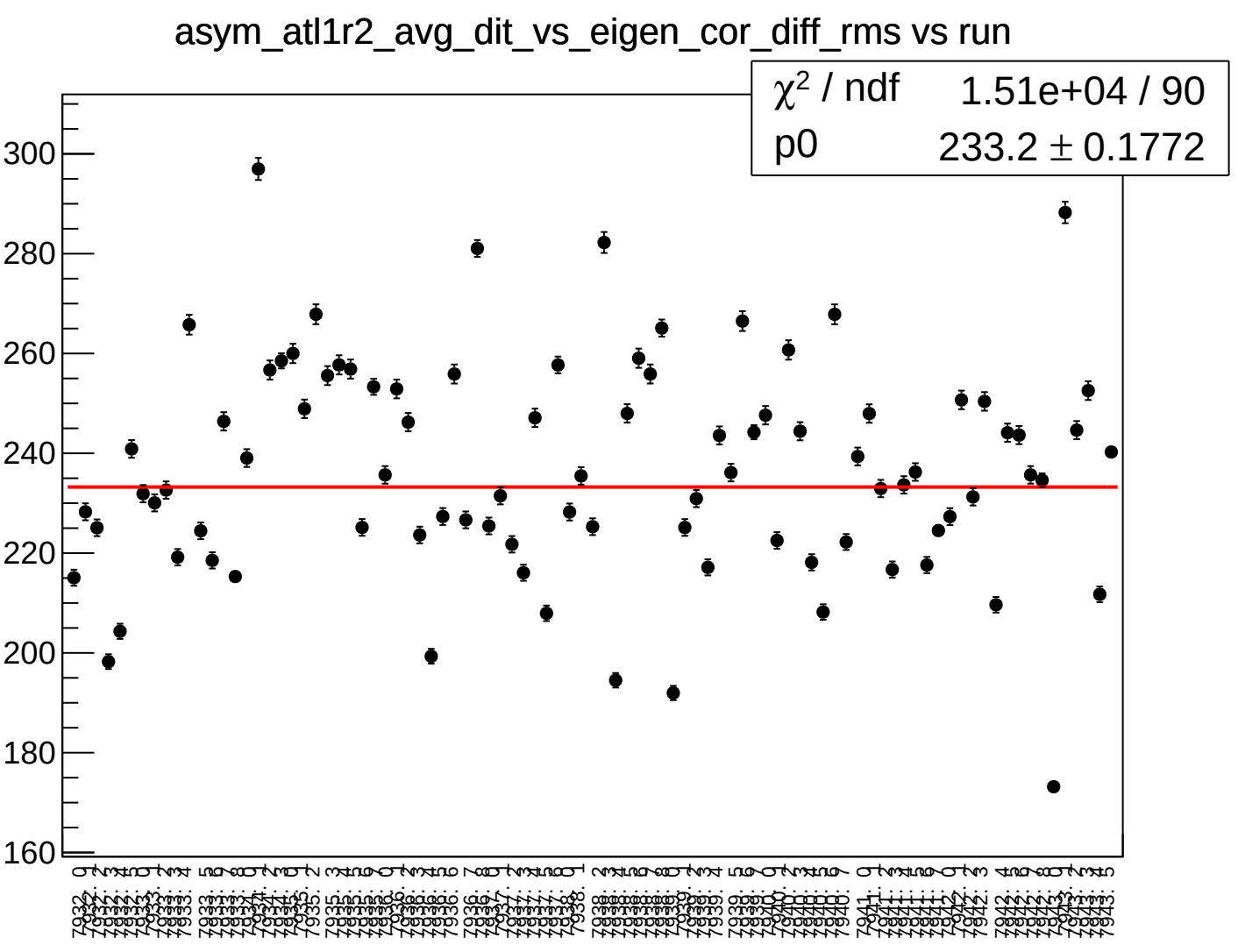

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.91 / 90
p0 −0.1421± 0.2506
pull
Entries 91
Mean −3403
Std Dev 0

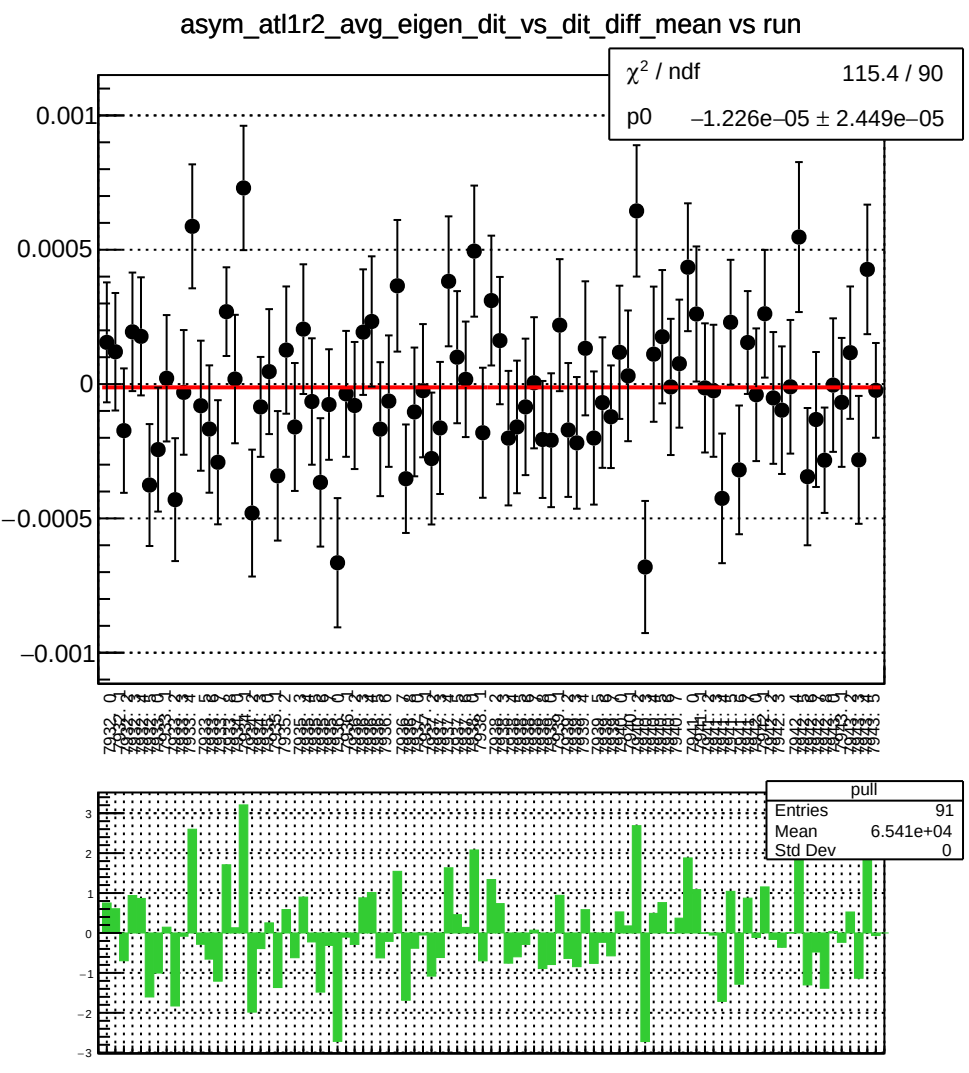

pull1D
Entries 91
Mean 0.0003056
Std Dev 1.043

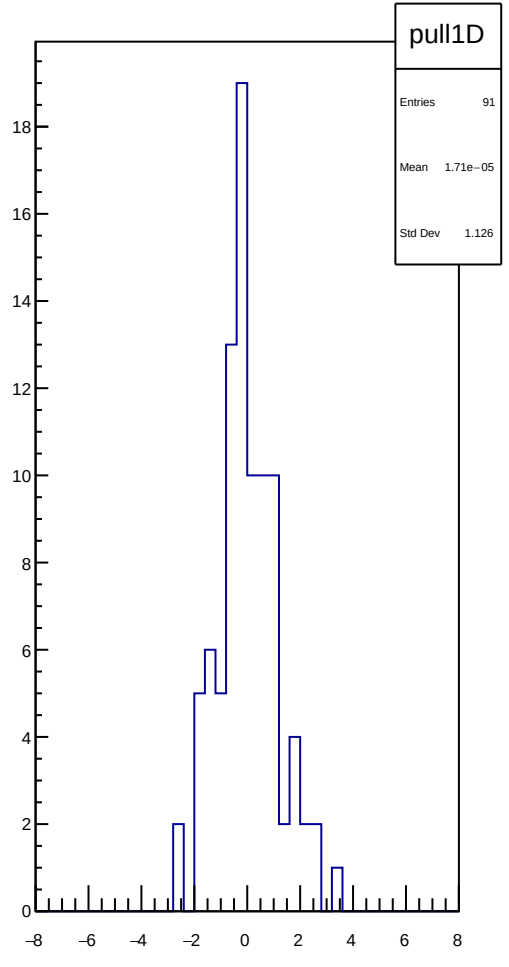

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.51e+04 / 90
p0 233.2 ± 0.1772
300
280
260
240
220
200
180
160

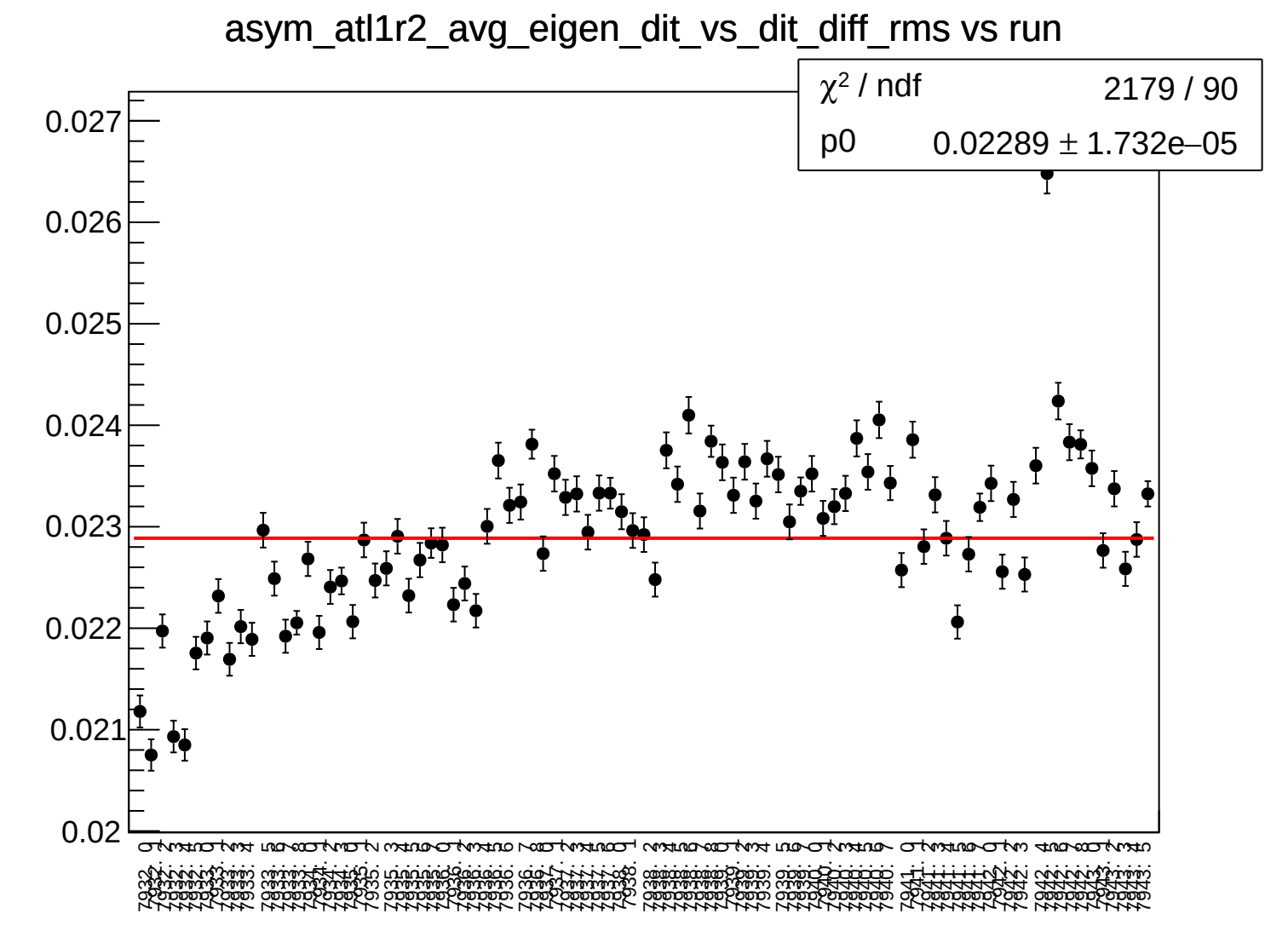

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.91 / 90
p0 −0.1421± 0.2506
pull
Entries 91
Mean −3403
Std Dev 0

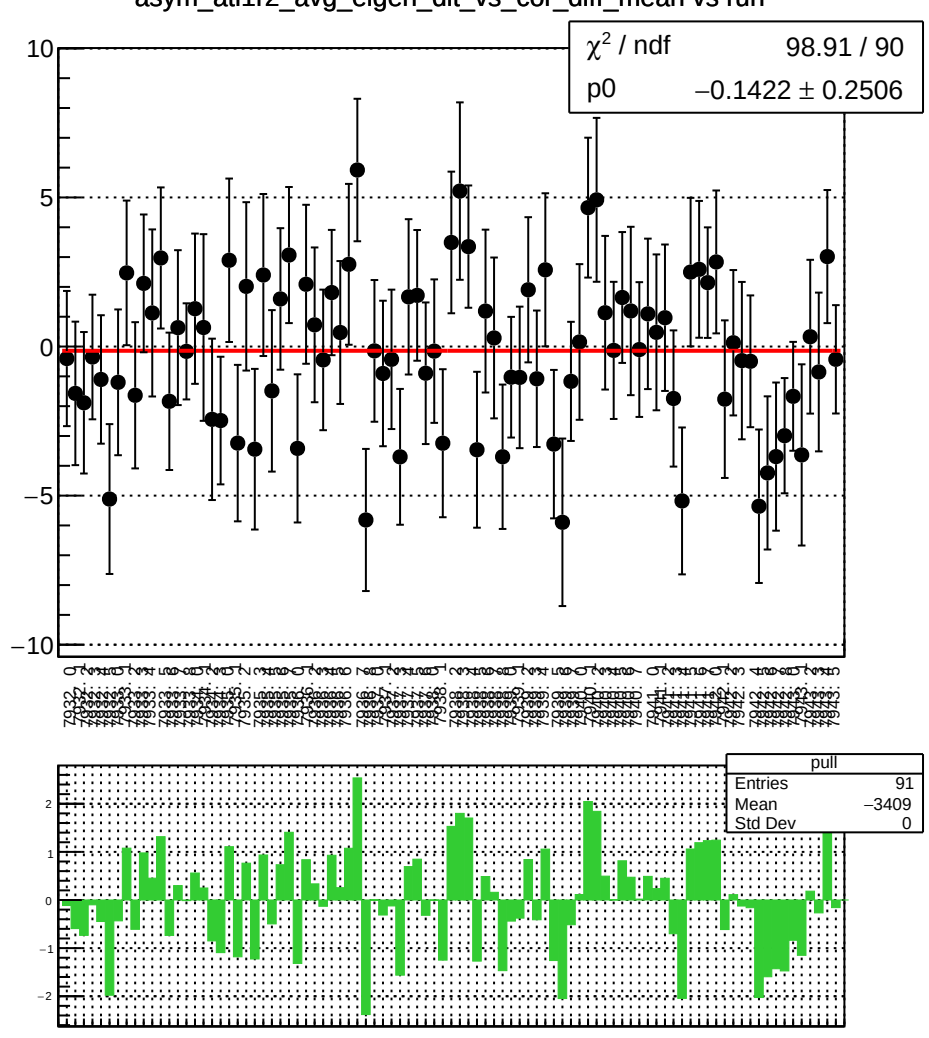

pull1D
Entries 91
Mean 0.0003056
Std Dev 1.043

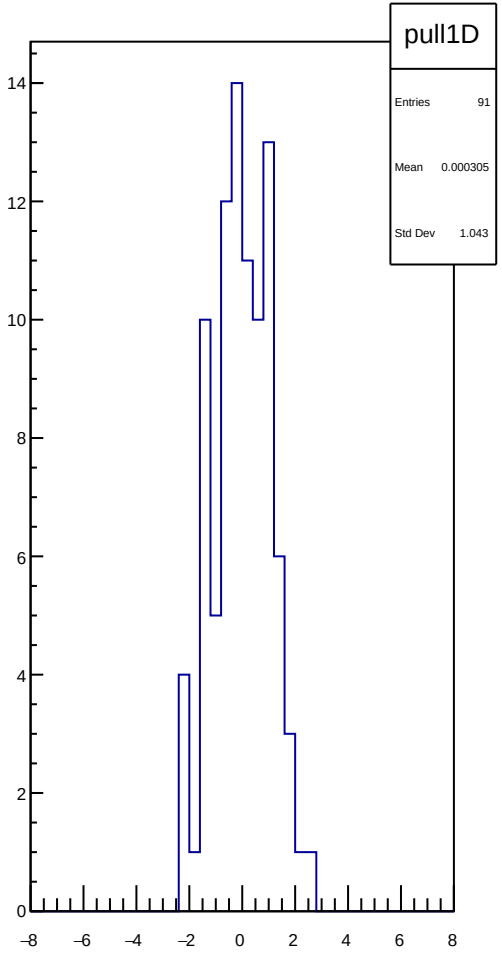

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.51e+04 / 90
p0 233.2 ± 0.1772
300
280
260
240
220
200
180
160

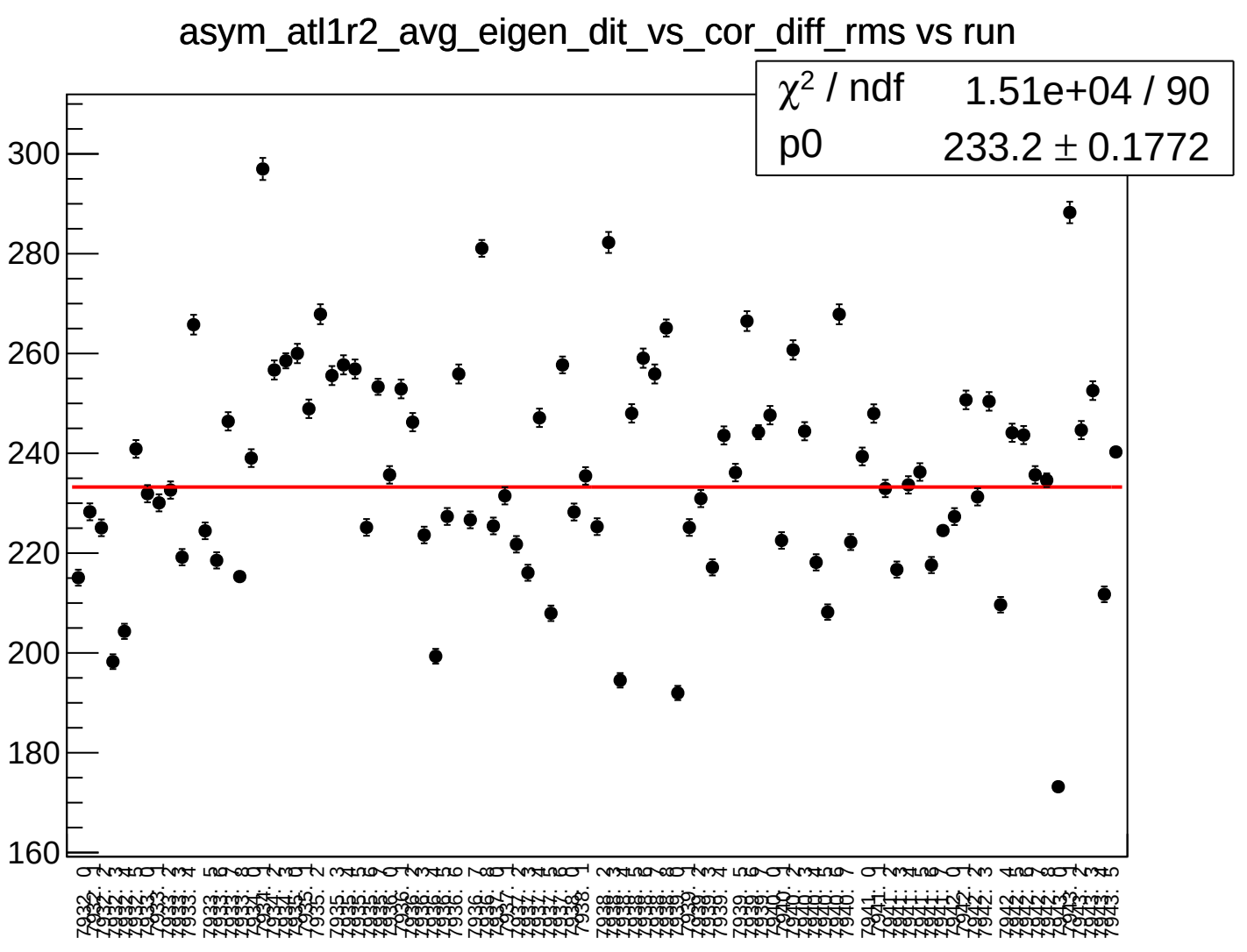

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.4 / 90
p0 −1.226e−05 ± 2.449e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 6.541e+04
Std Dev 0
3
2
1
0
−1
−2
−3

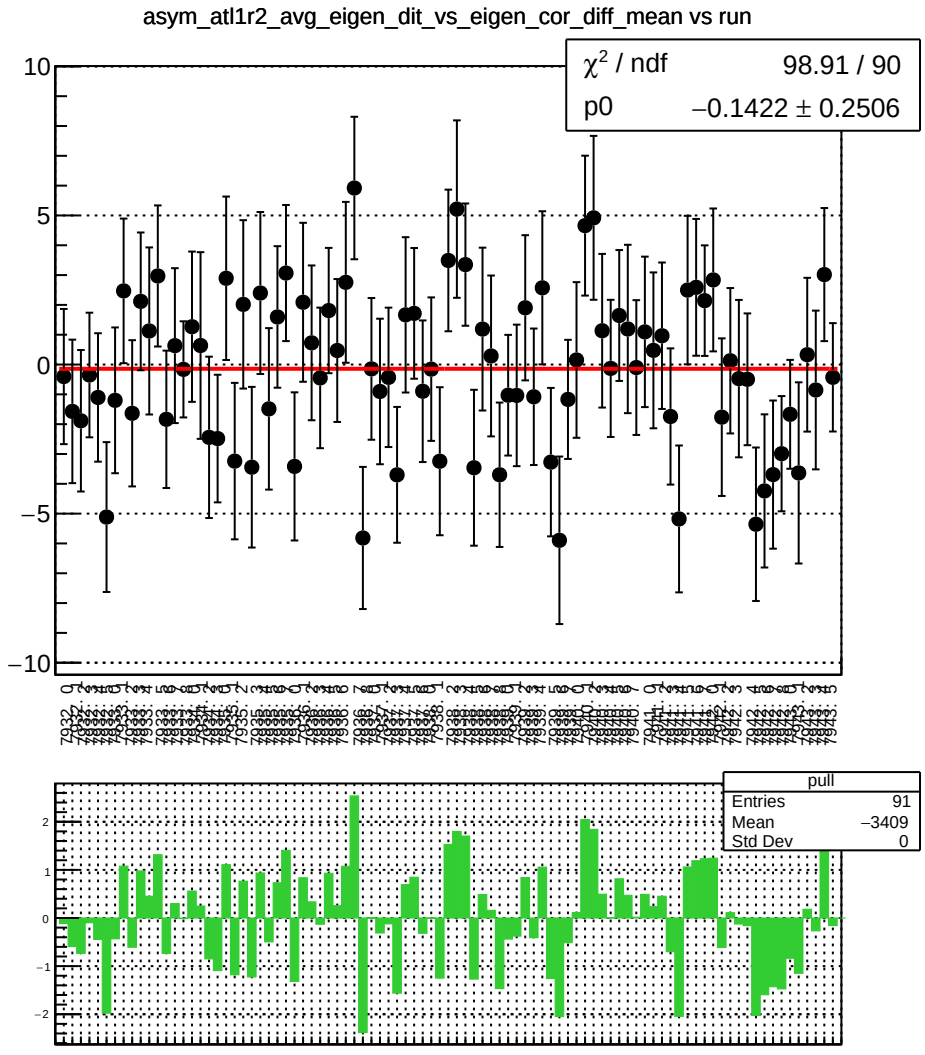

pull1D
Entries 91
Mean 1.71e−05
Std Dev 1.126
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

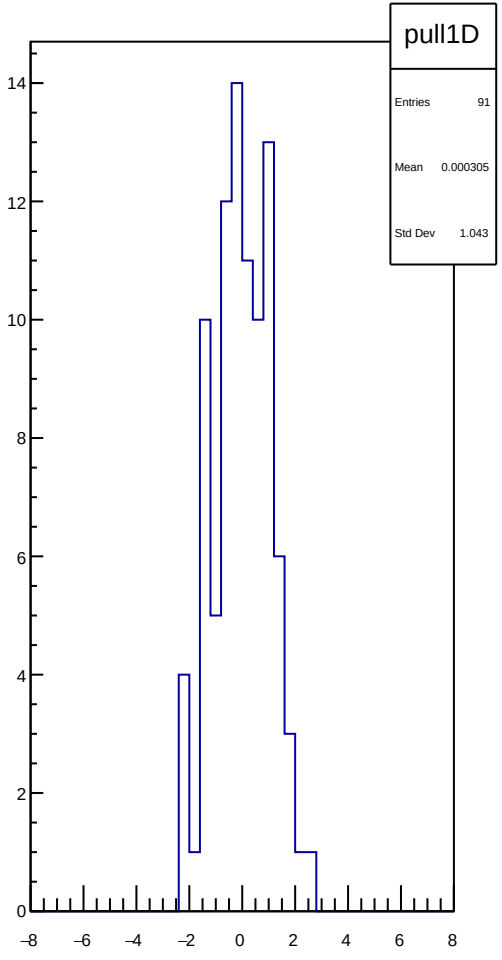

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2179 / 90
p0 0.02289 ± 1.732e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

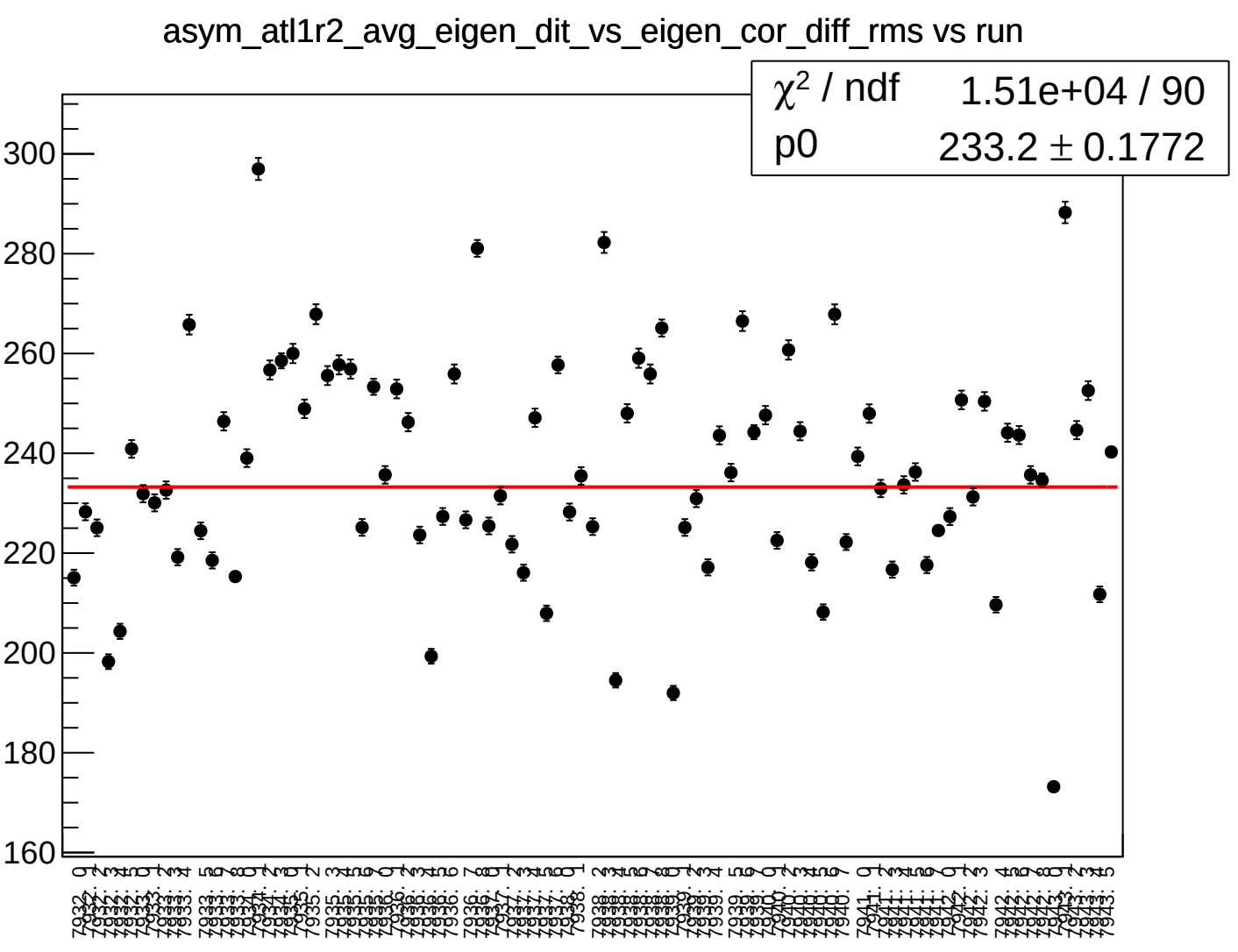

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.91 / 90
p0 −0.1422 ± 0.2506
pull
Entries 91
Mean −3409
Std Dev 0

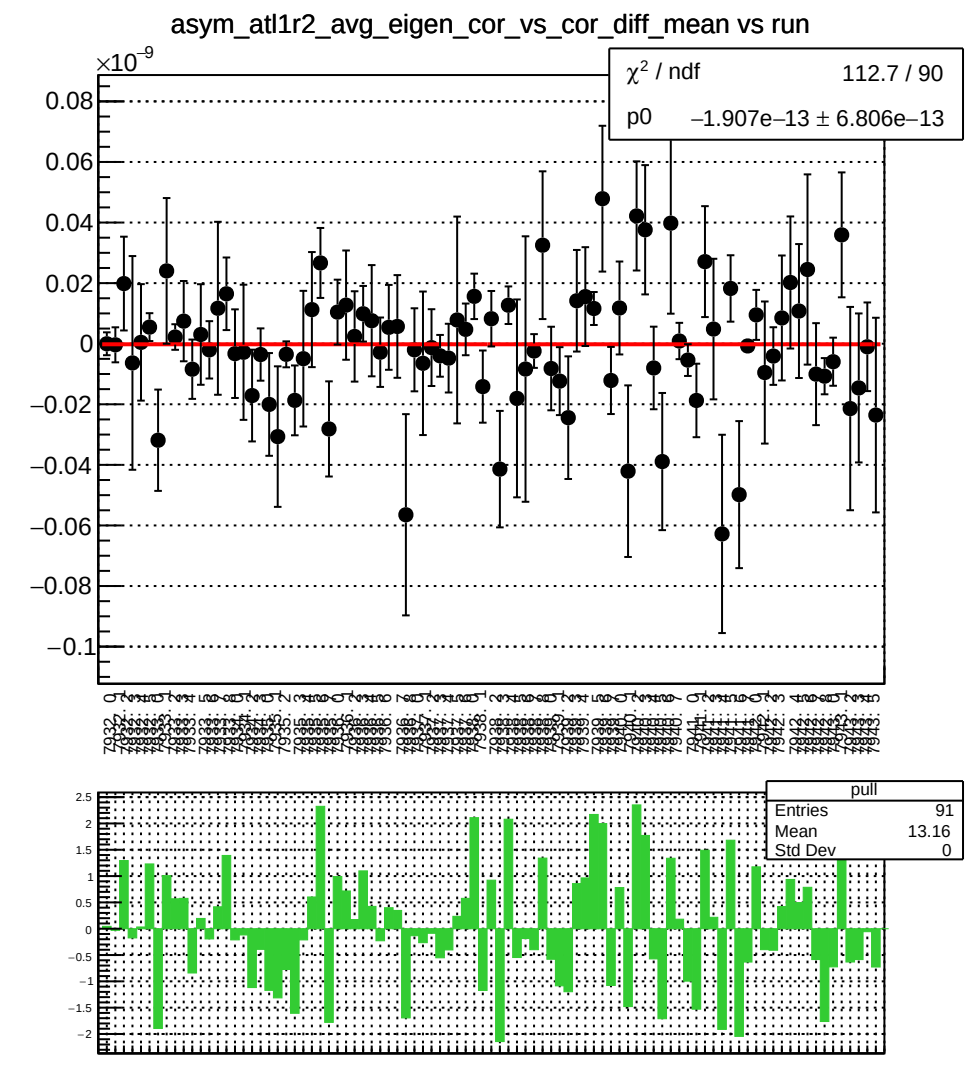

pull1D
Entries 91
Mean 0.000305
Std Dev 1.043

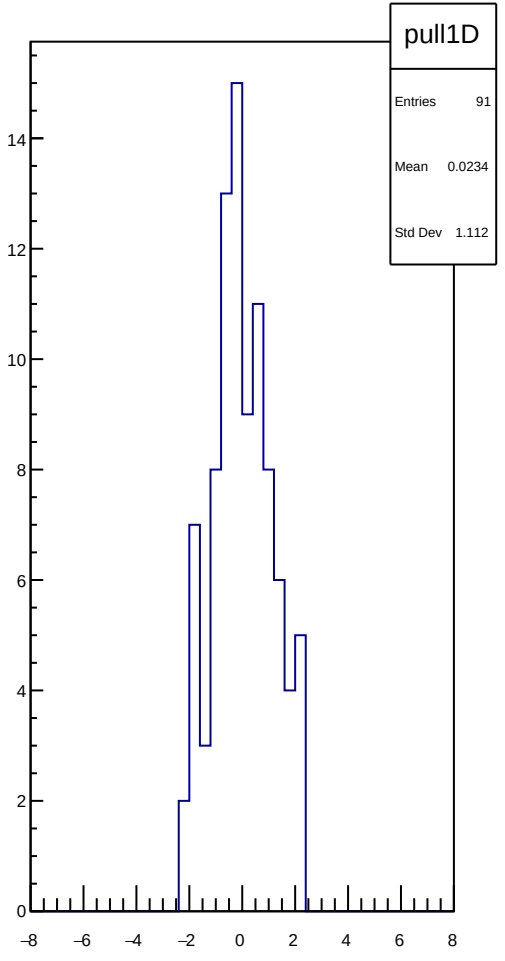

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.51e+04 / 90
p0 233.2 ± 0.1772
300
280
260
240
220
200
180
160

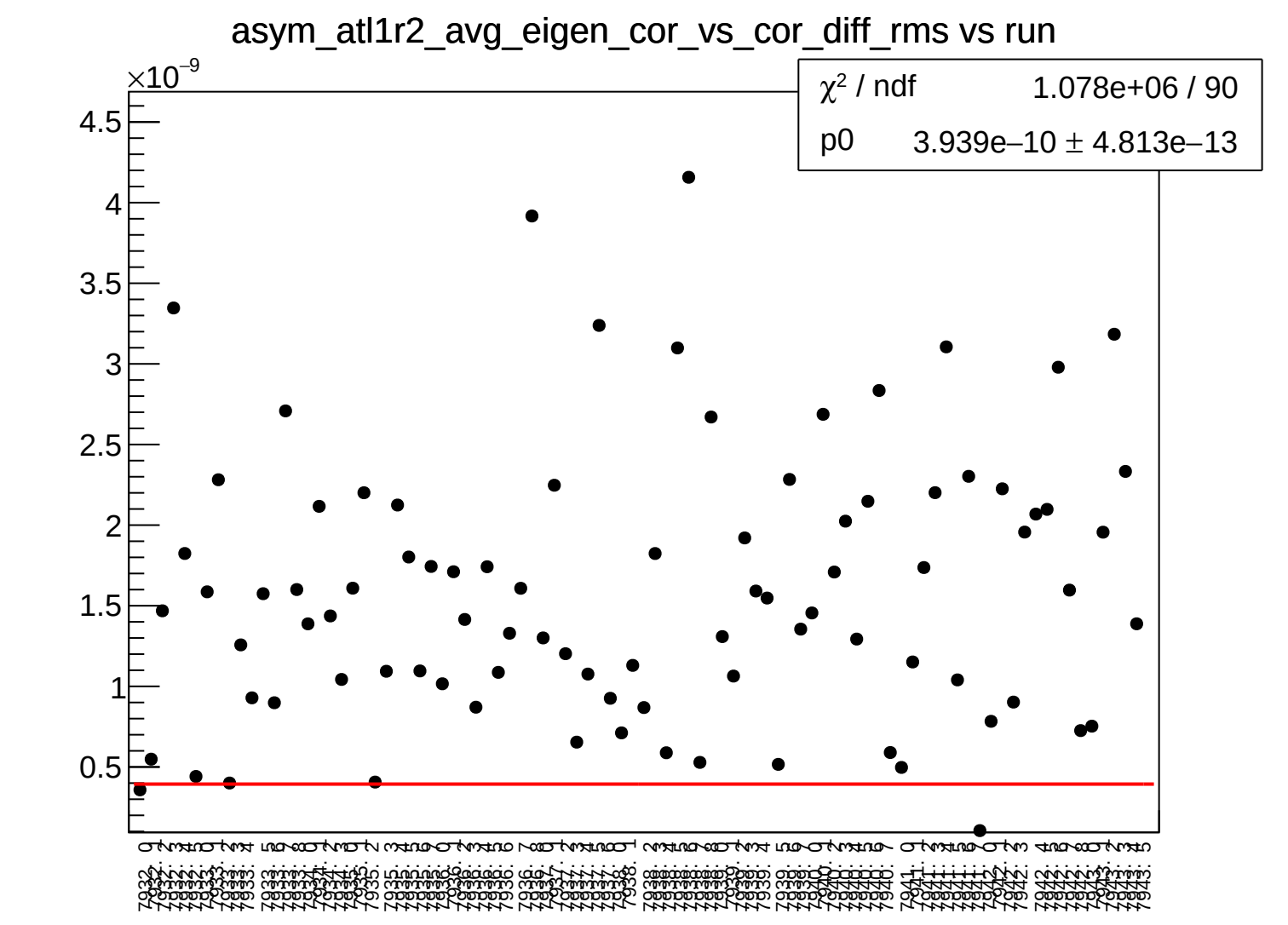

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.91 / 90
p0 −0.1422 ± 0.2506
pull
Entries 91
Mean −3409
Std Dev 0

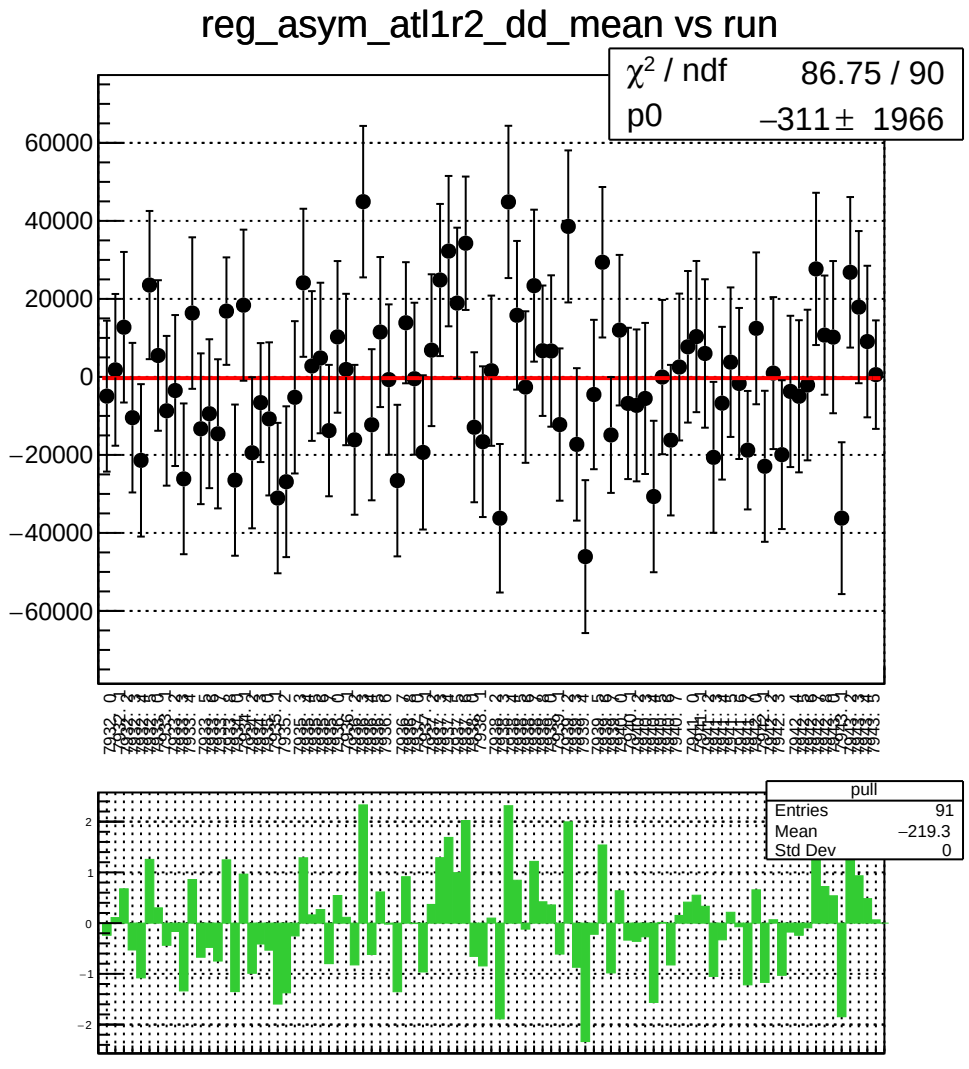

pull1D
Entries 91
Mean 0.000305
Std Dev 1.043

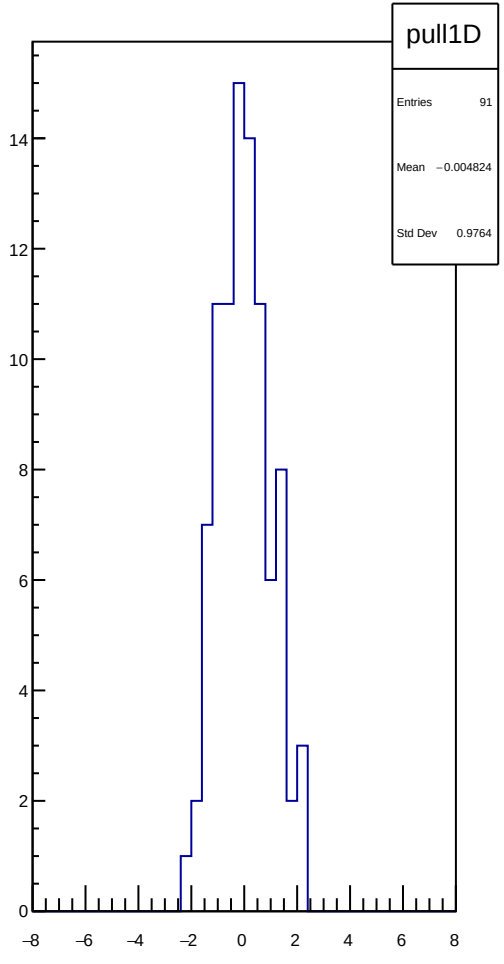

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.51e+04 / 90
p0 233.2 ± 0.1772
300
280
260
240
220
200
180
160

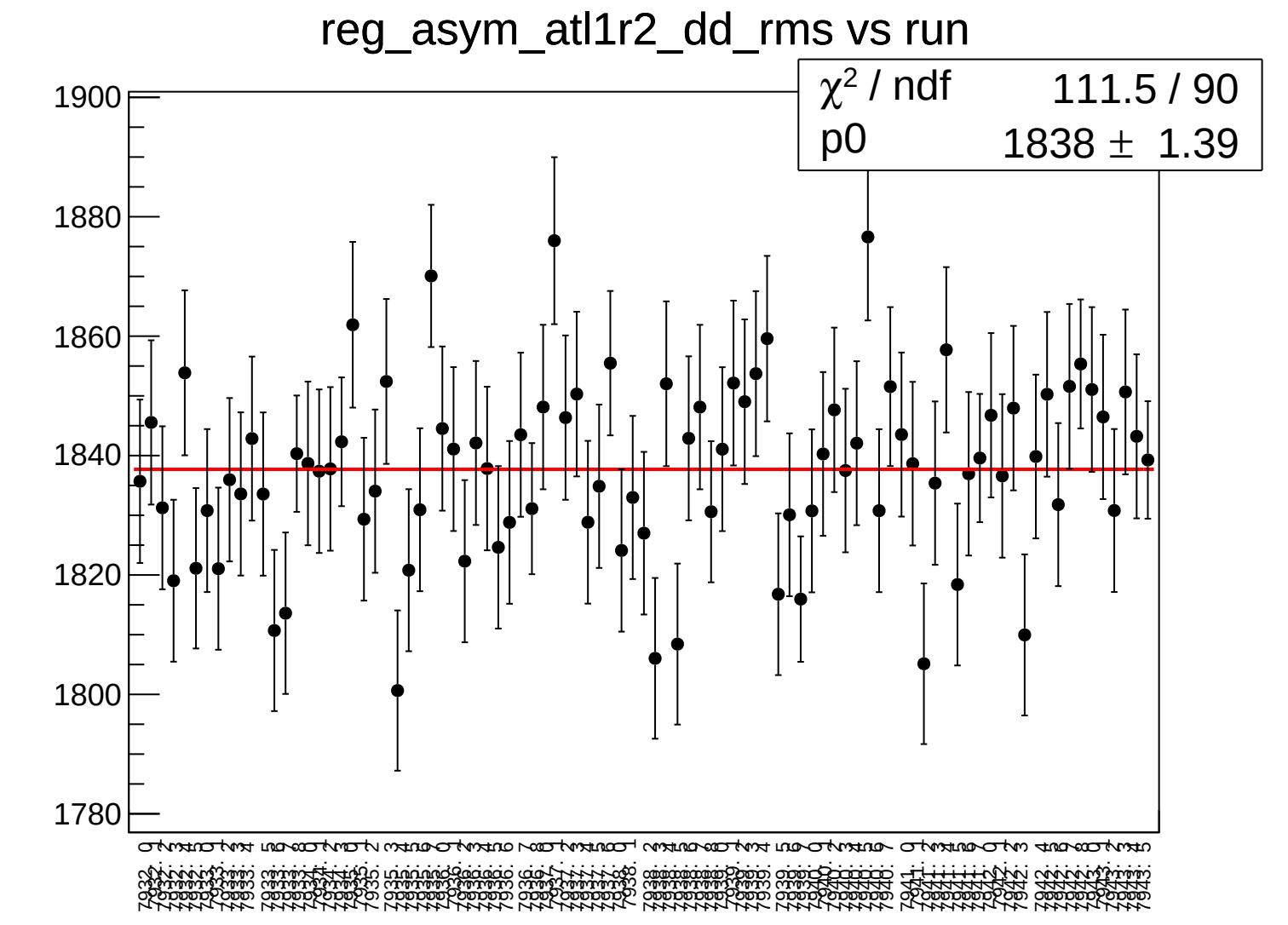

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 112.7 / 90
p0 −1.907e−13 ± 6.806e−13
pull
Entries 91
Mean 13.16
Std Dev 0

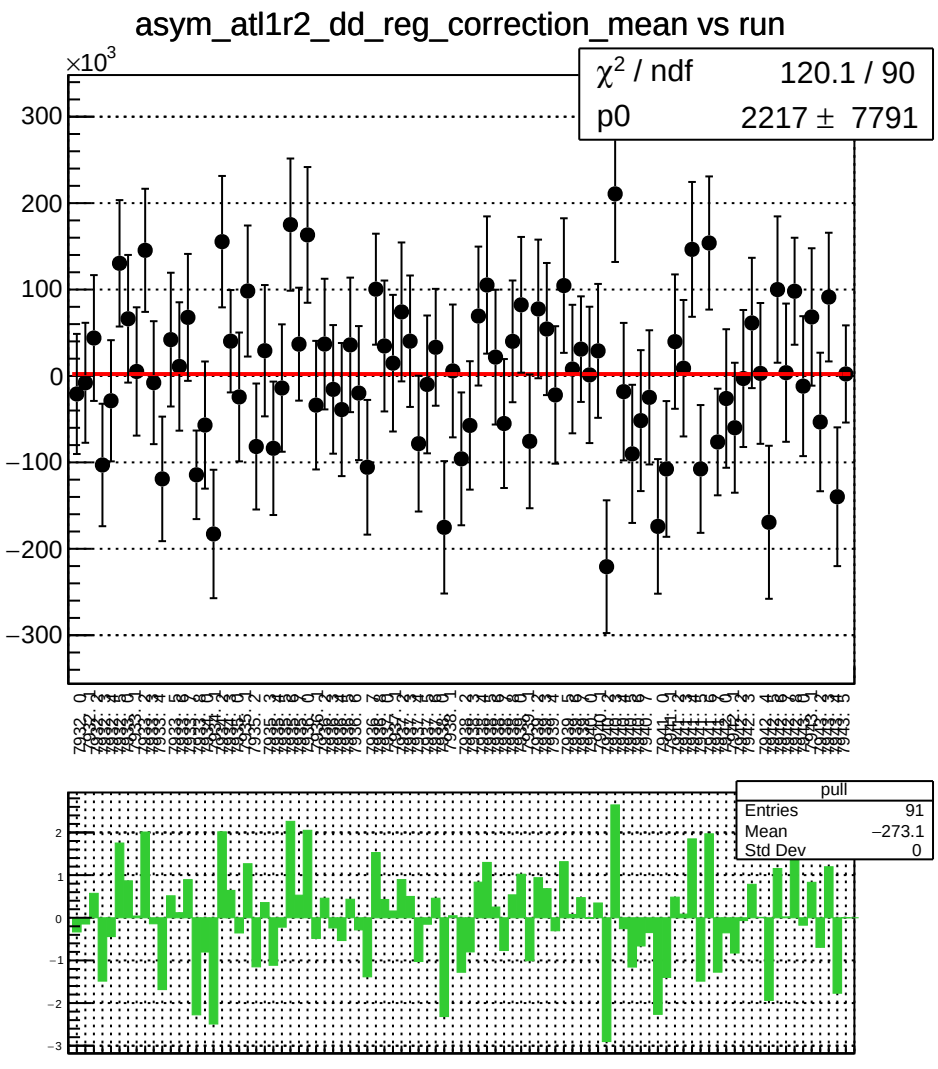

pull1D
Entries 91
Mean 0.0234
Std Dev 1.112

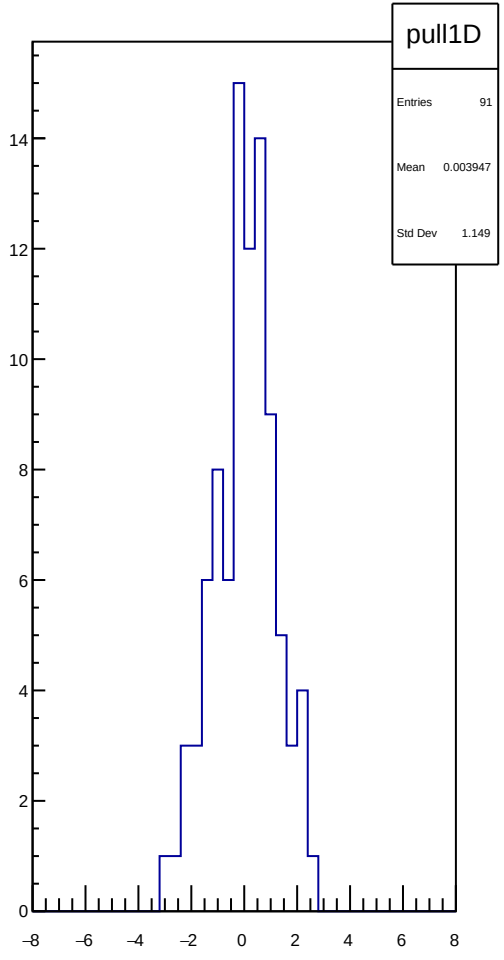

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.078e+06 / 90
p0 3.939e−10 ± 4.813e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

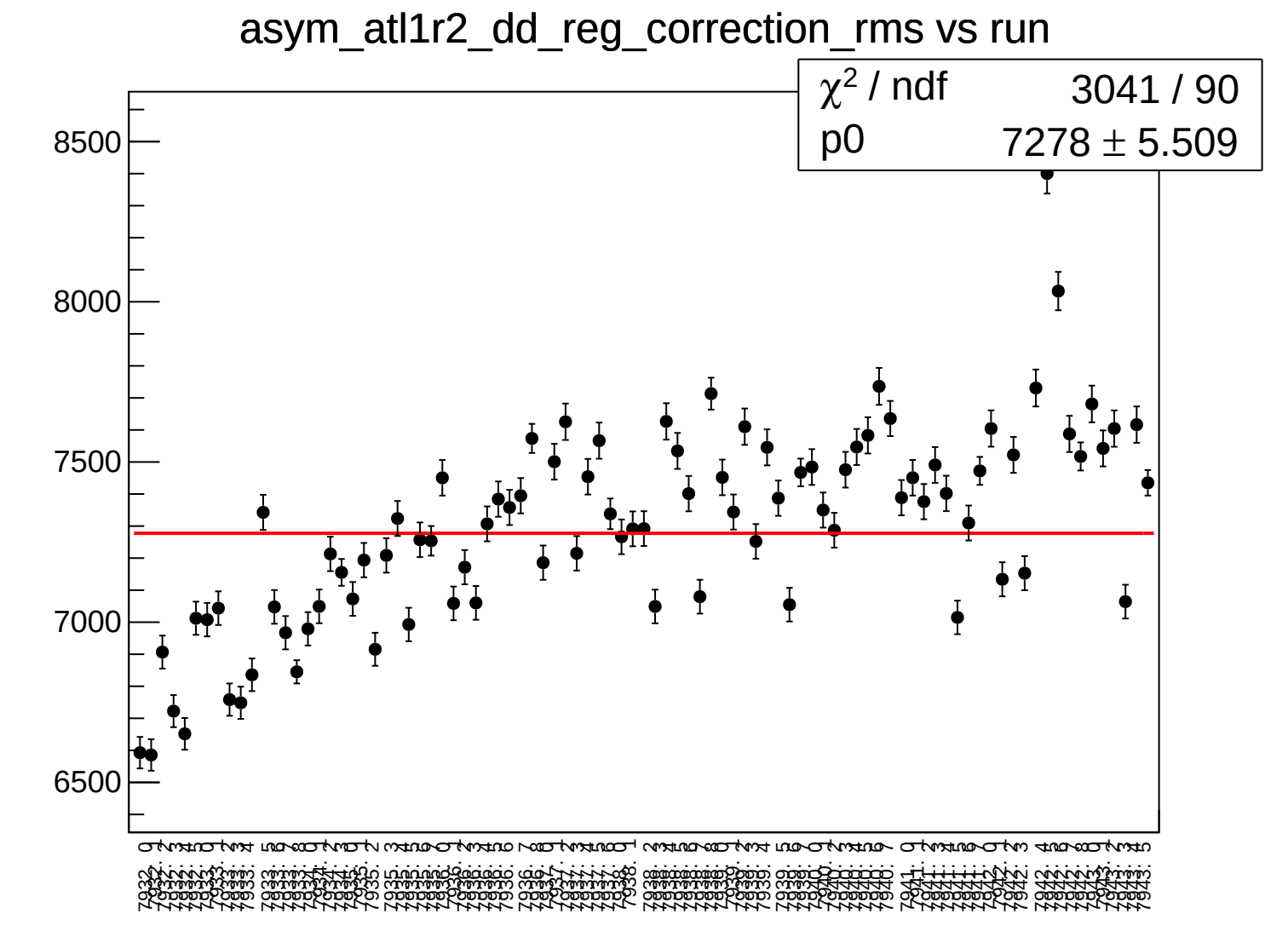

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 86.75 / 90
p0 −311 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −219.3
Std Dev 0
2
1
0
−1
−2

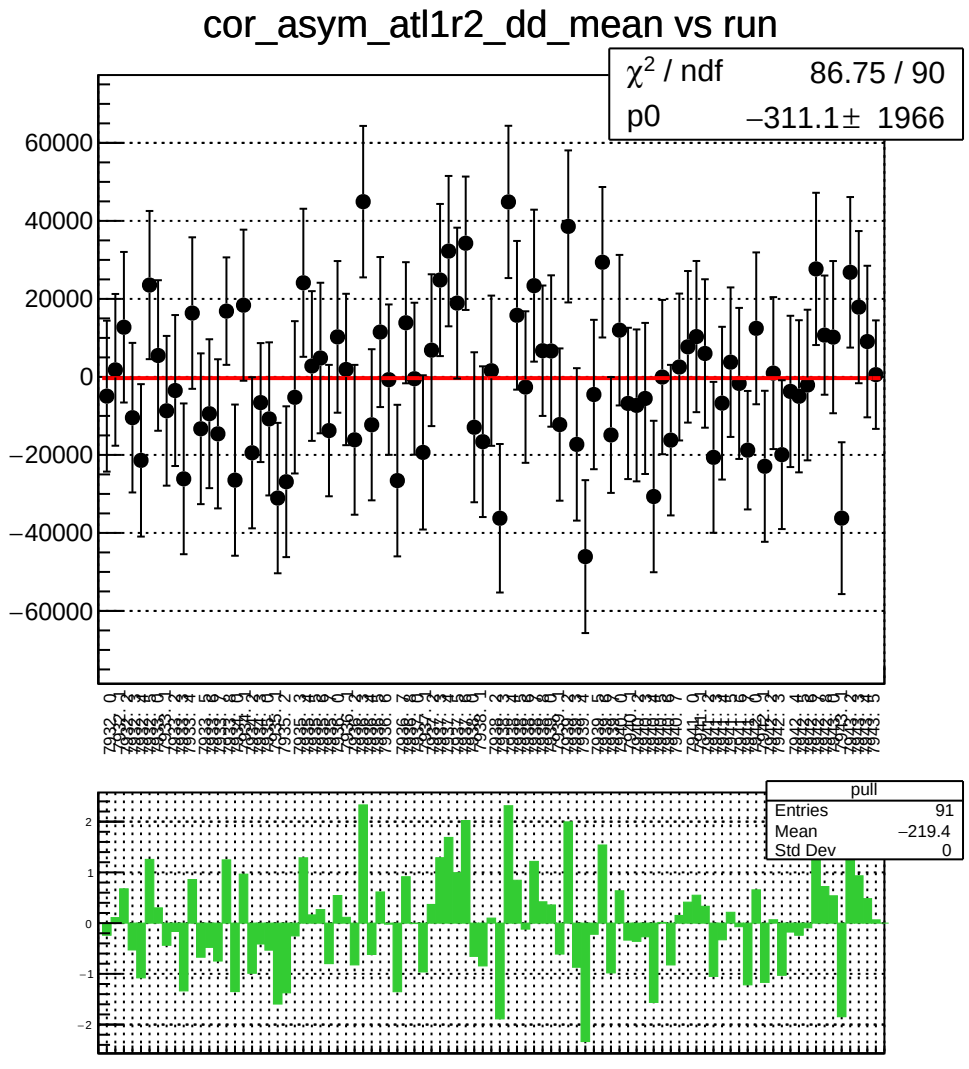

pull1D
Entries 91
Mean −0.004824
Std Dev 0.9764
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

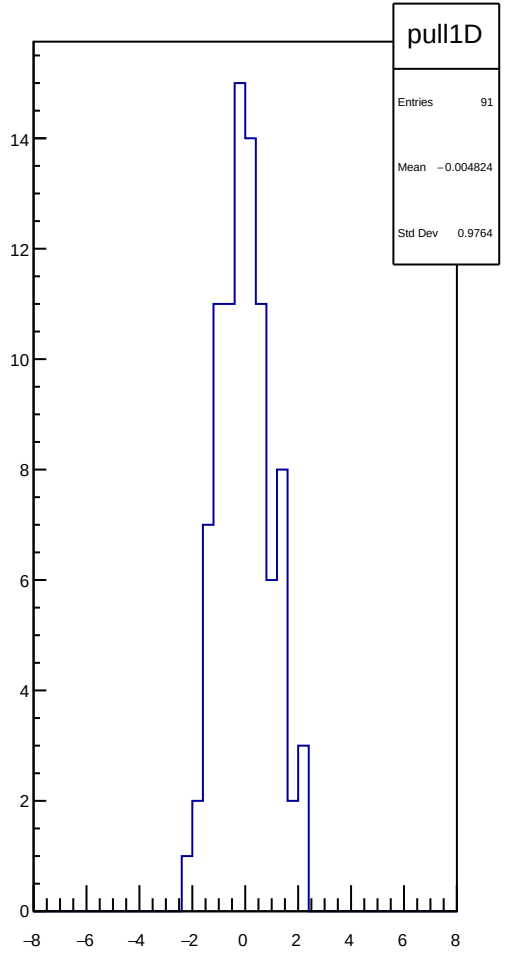

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 111.5 / 90
p0 1838 ± 1.39
1900
1880
1860
1840
1820
1800
1780

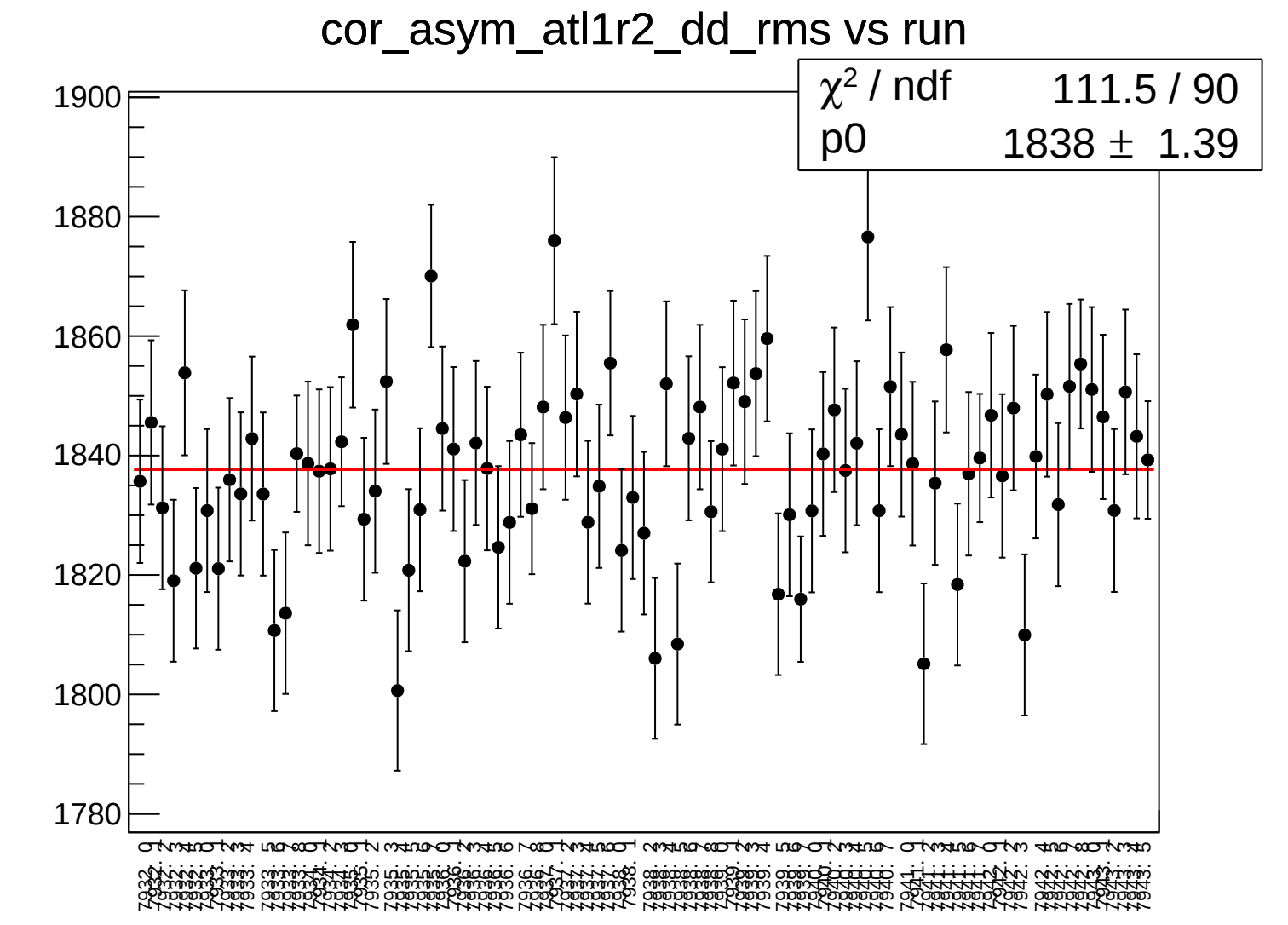

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 2217 ± 7791
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −273.1
Std Dev 0
2
1
0
−1
−2
−3

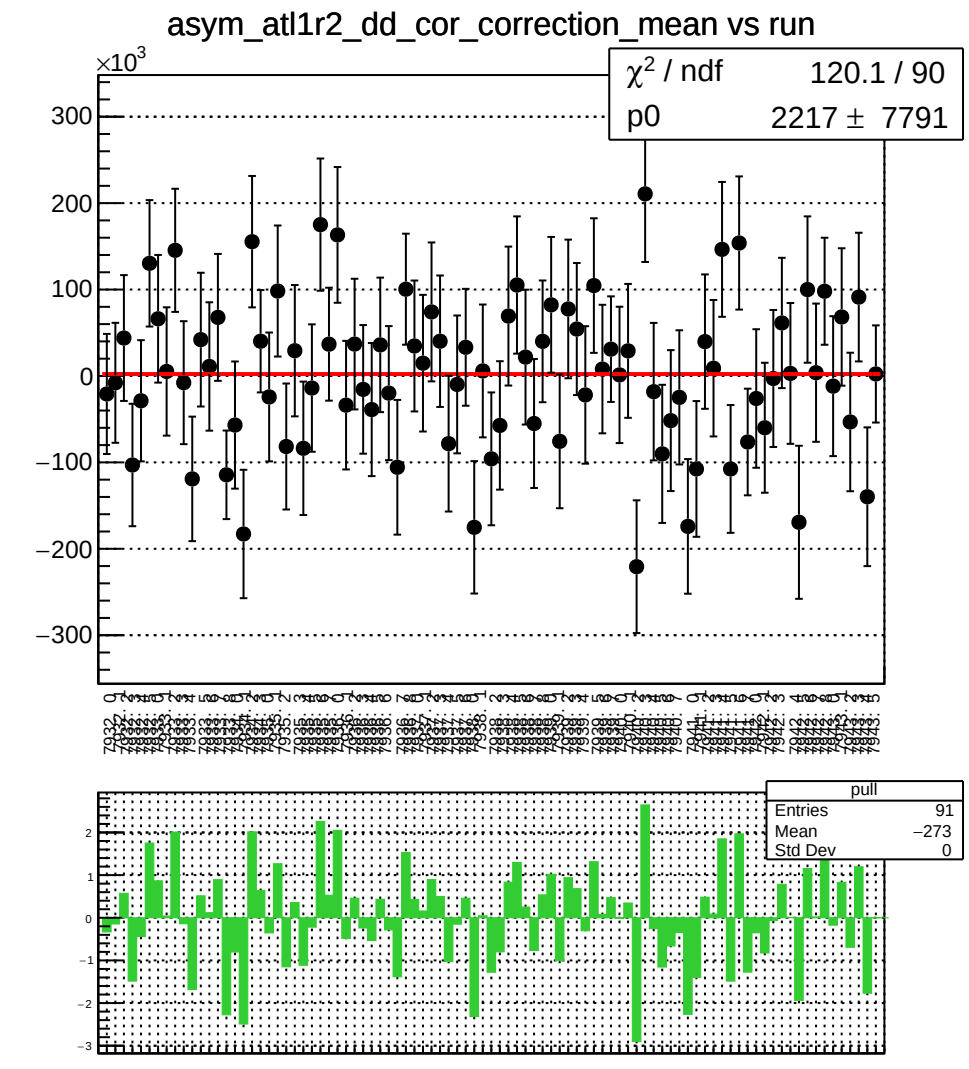

pull1D
Entries 91
Mean 0.003947
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

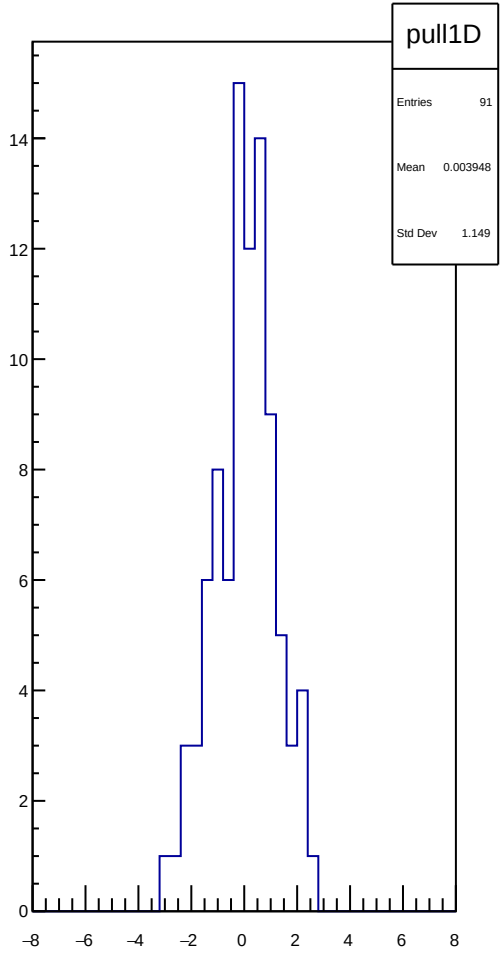

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3041 / 90
p0 7278 ± 5.509
8500
8000
7500
7000
6500

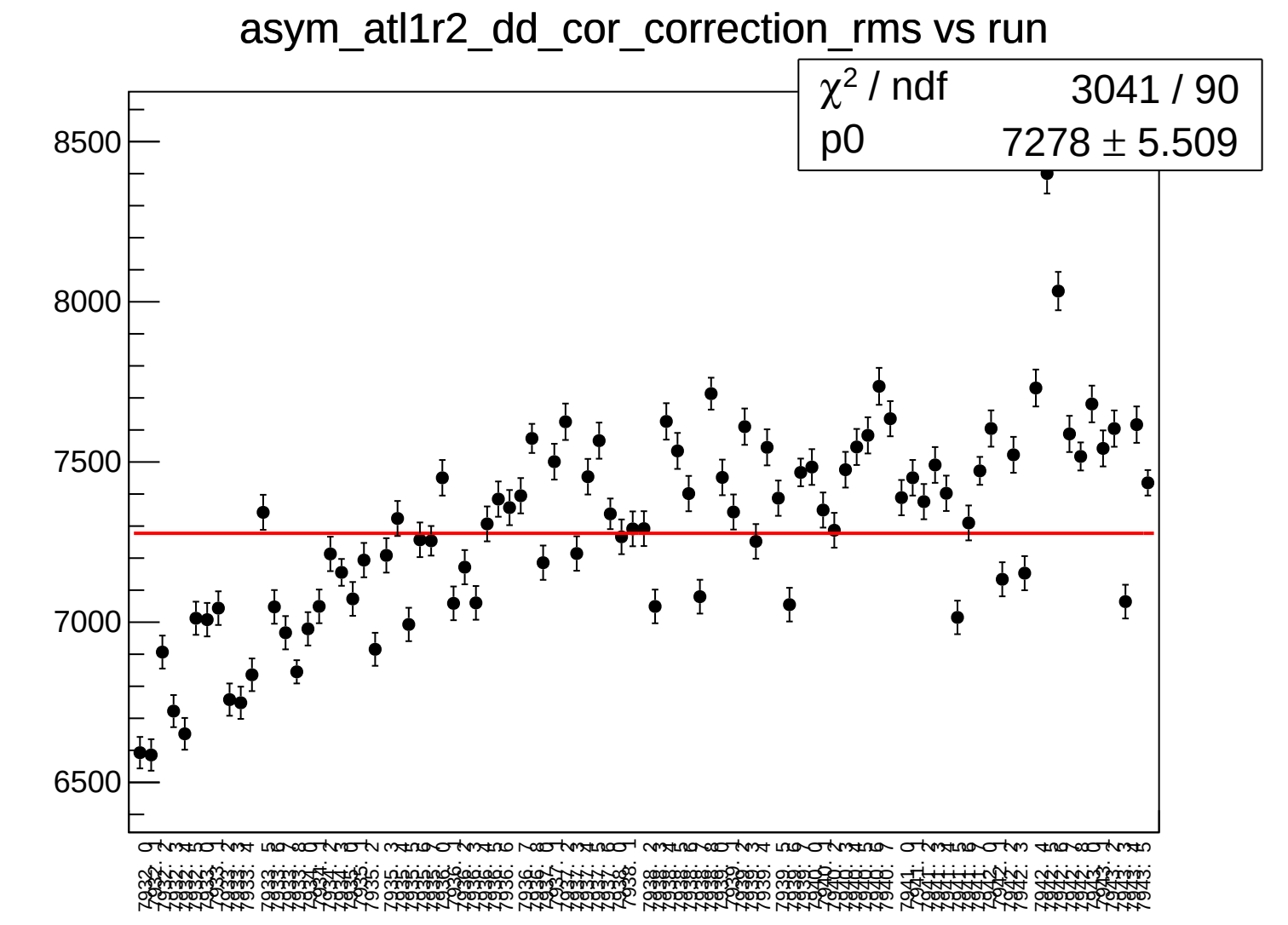

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.75 / 90
p0 −311.1± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −219.4
Std Dev 0
2
1
0
−1
−2

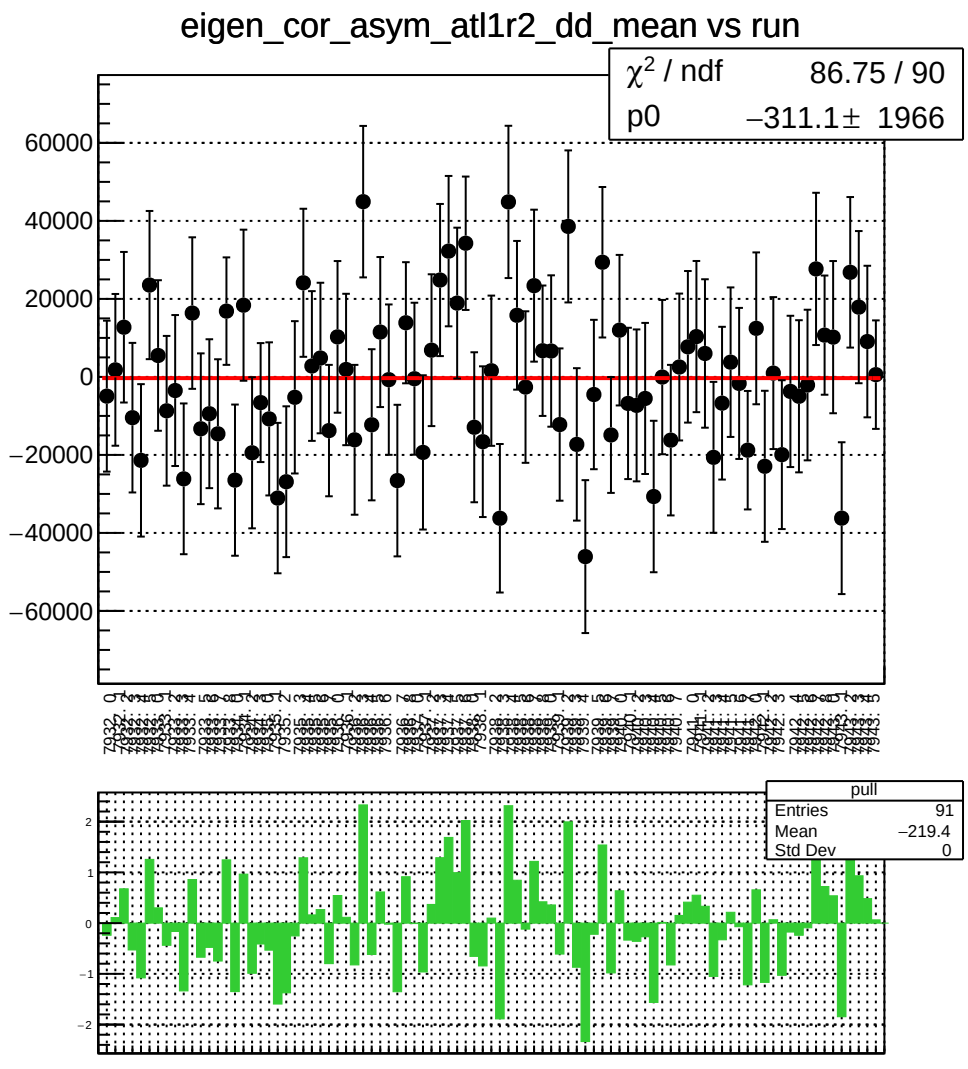

pull1D
Entries 91
Mean −0.004824
Std Dev 0.9764
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

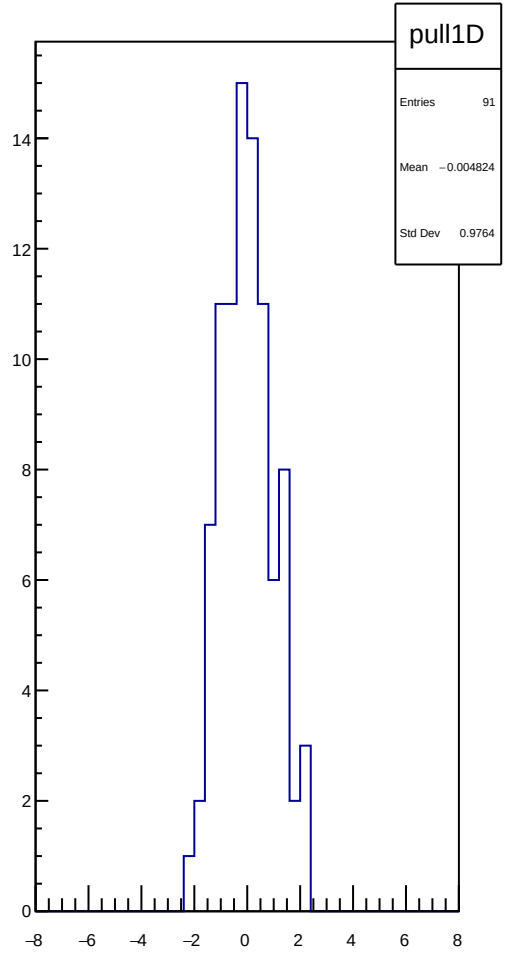

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 111.5 / 90
p0 1838 ± 1.39
1900
1880
1860
1840
1820
1800
1780

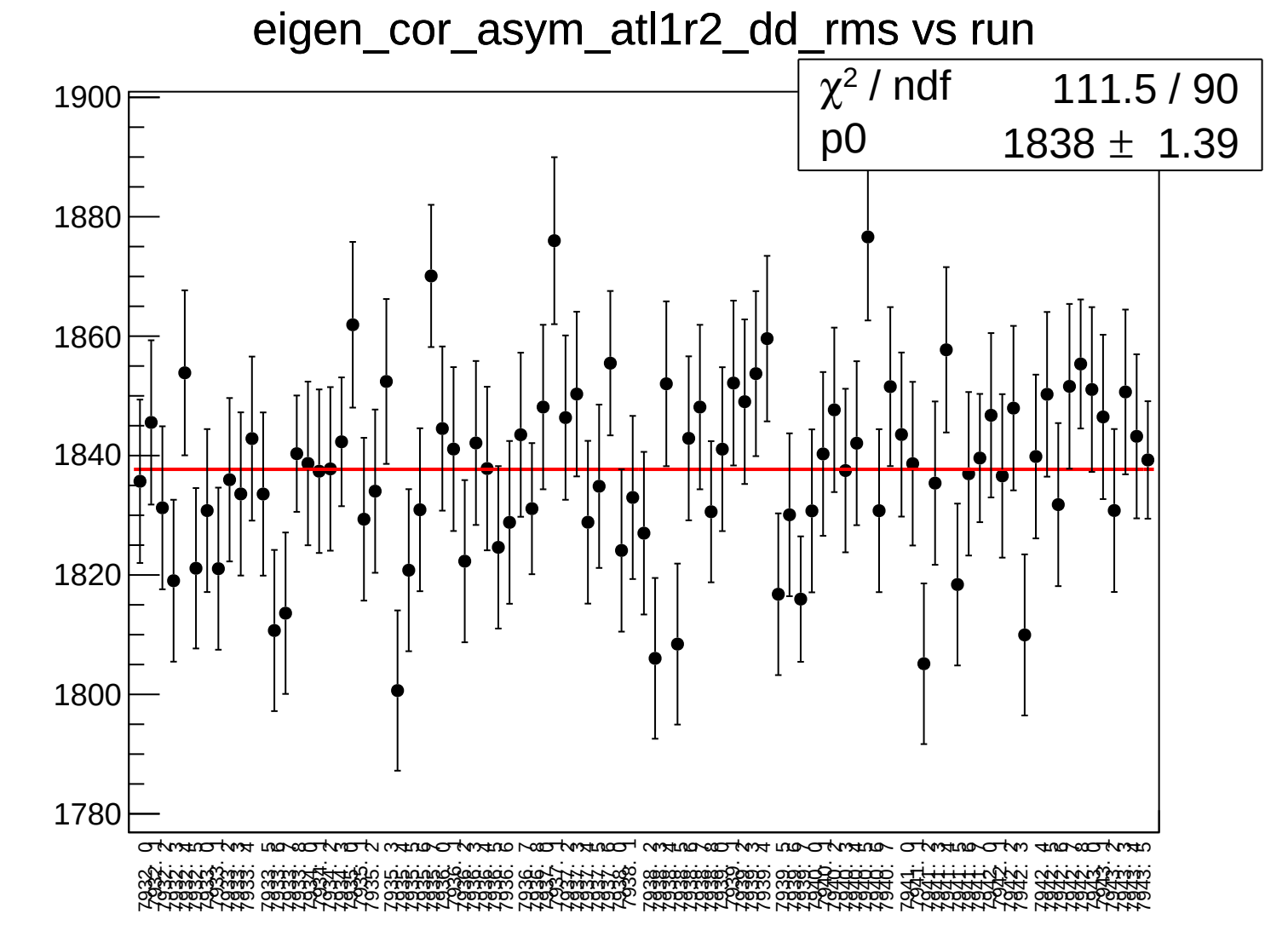

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 120.1 / 90
p0 2217 ± 7791
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −273
Std Dev 0
2
1
0
−1
−2
−3

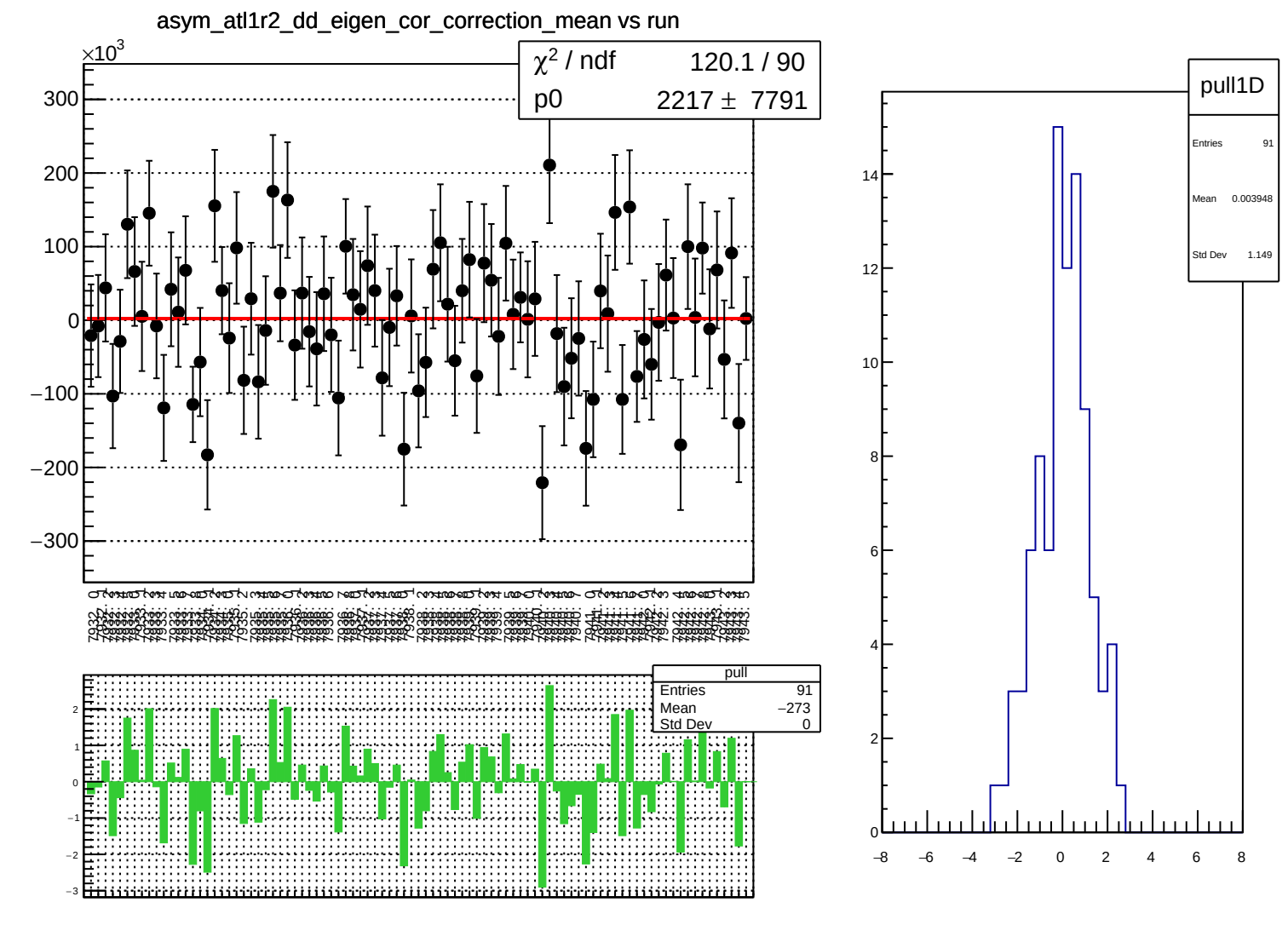

pull1D
Entries 91
Mean 0.003948
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

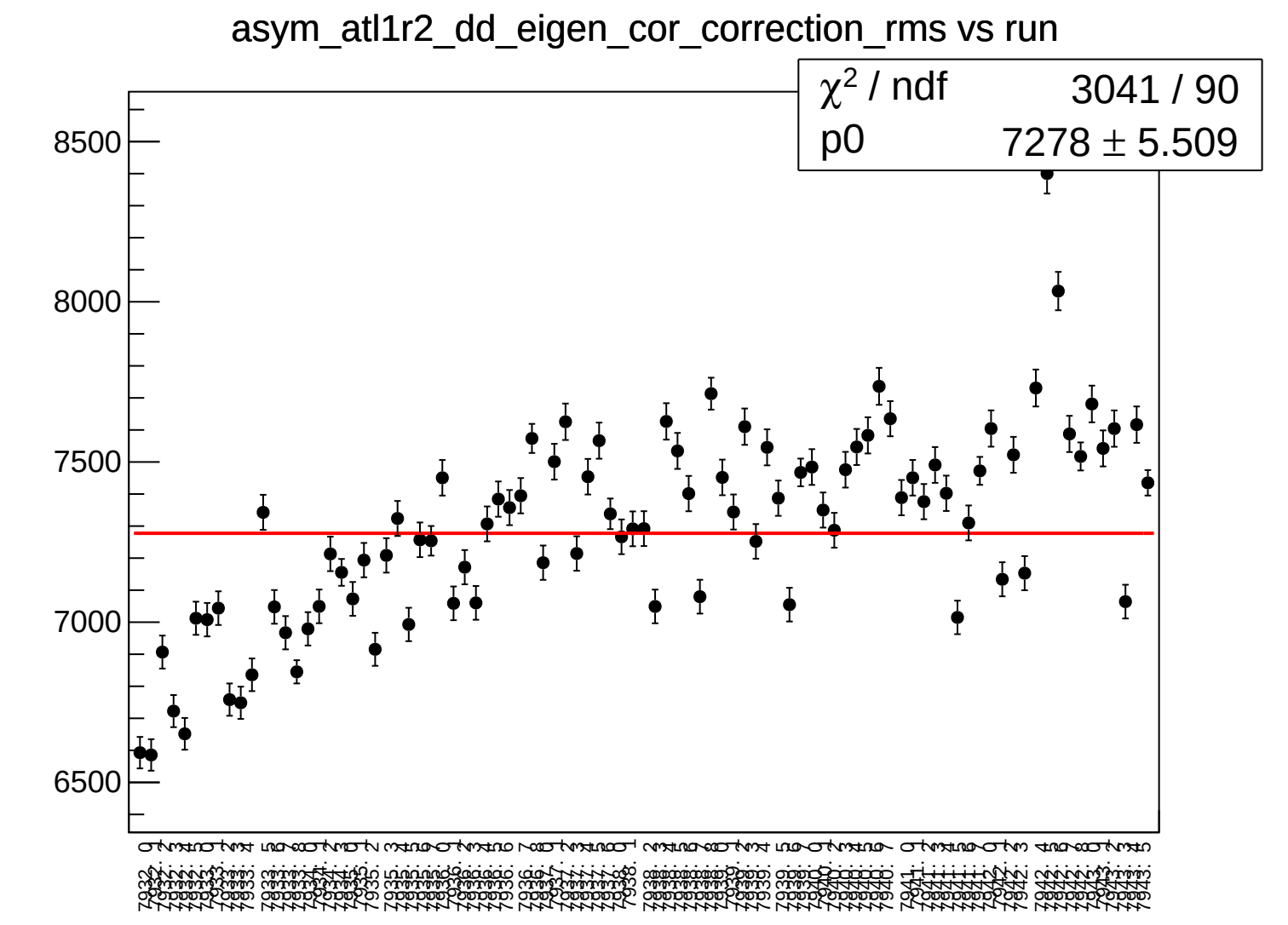

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3041 / 90
p0 7278 ± 5.509
8500
8000
7500
7000
6500

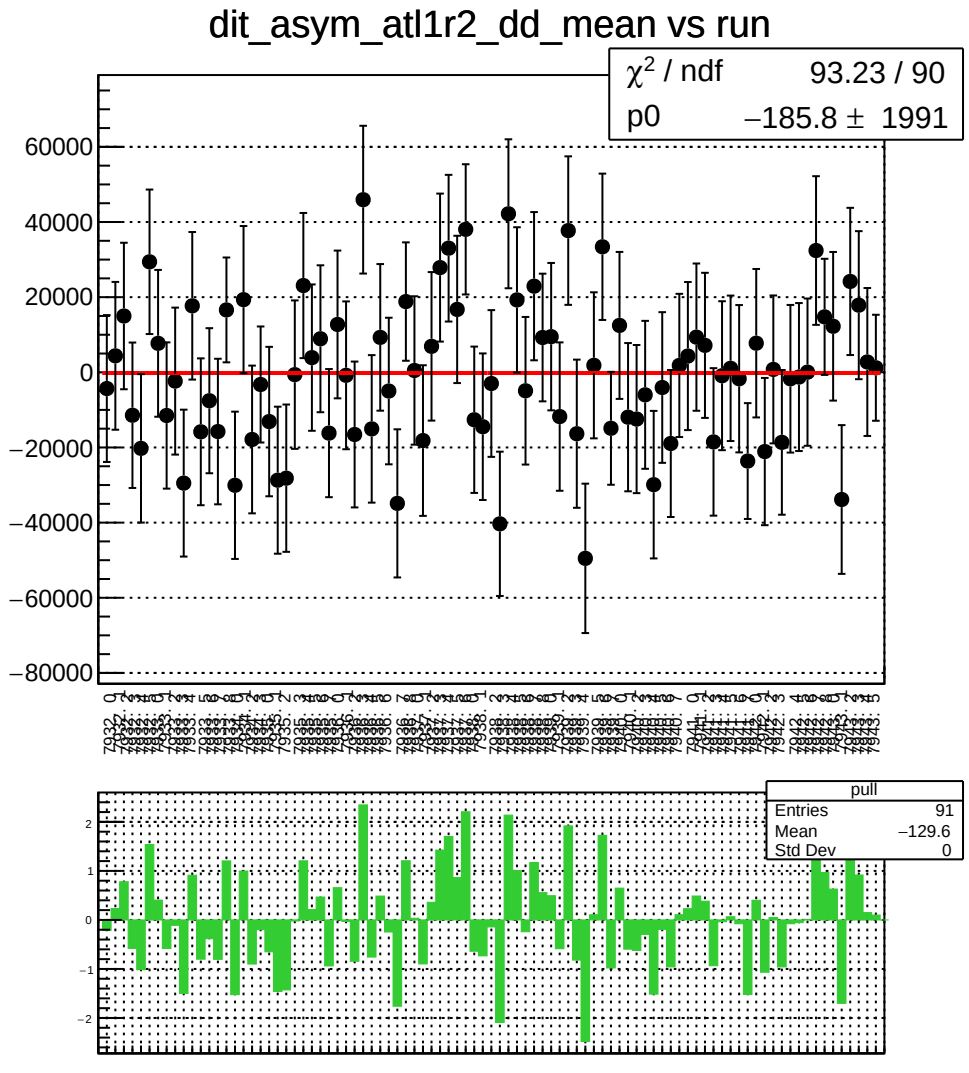

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.75 / 90
p0 −311.1± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −219.4
Std Dev 0
2
1
0
−1
−2

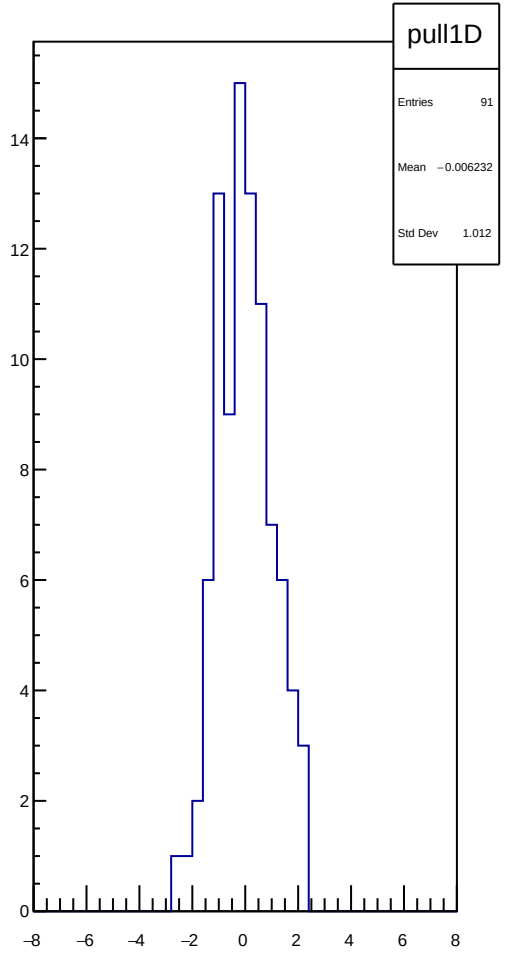

pull1D
Entries 91
Mean −0.004824
Std Dev 0.9764
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

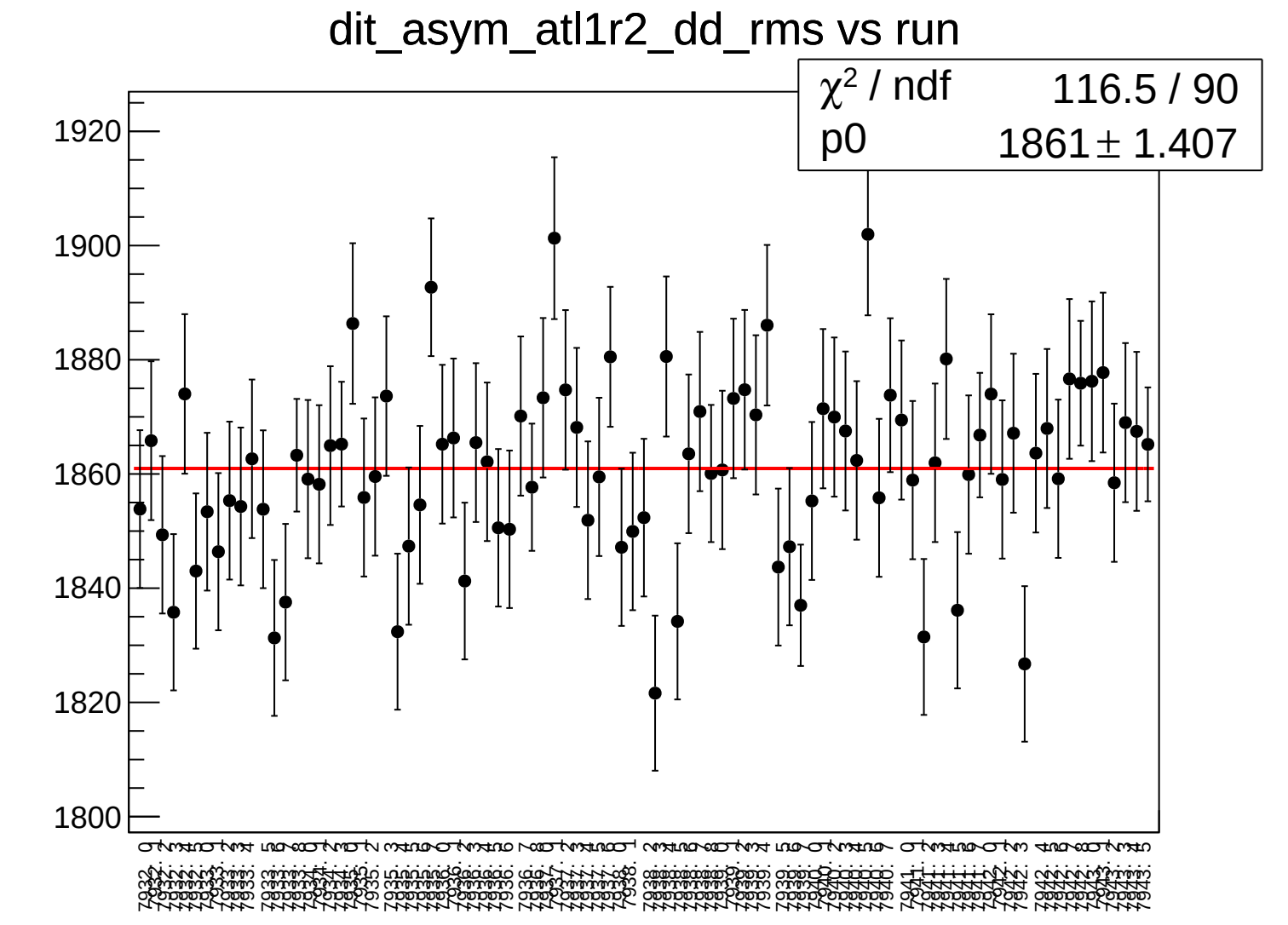

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 111.5 / 90
p0 1838 ± 1.39
1900
1880
1860
1840
1820
1800
1780

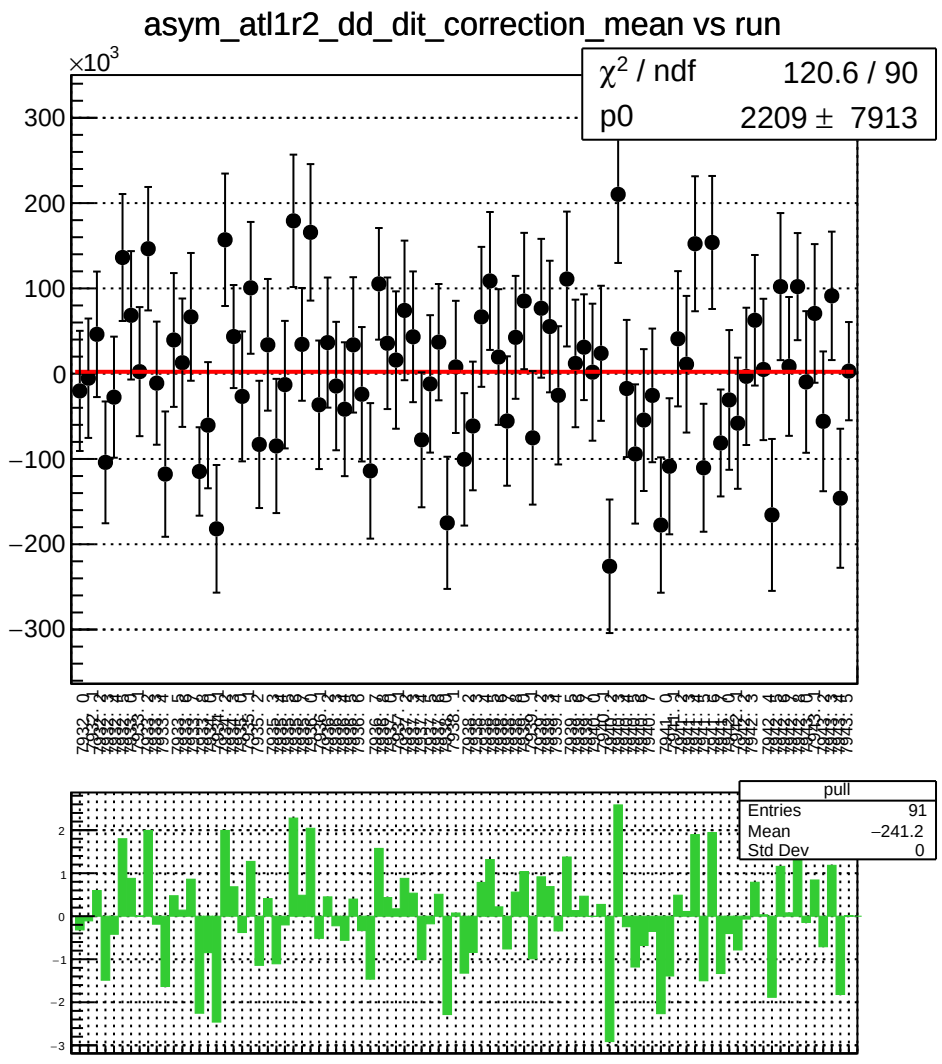

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 2217 ± 7791
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −273
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.003948
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

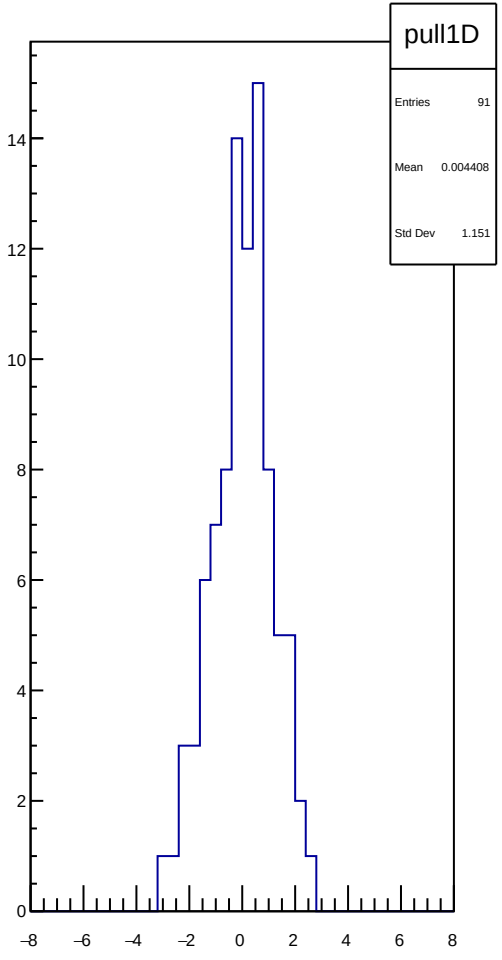

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3041 / 90
p0 7278 ± 5.509
8500
8000
7500
7000
6500

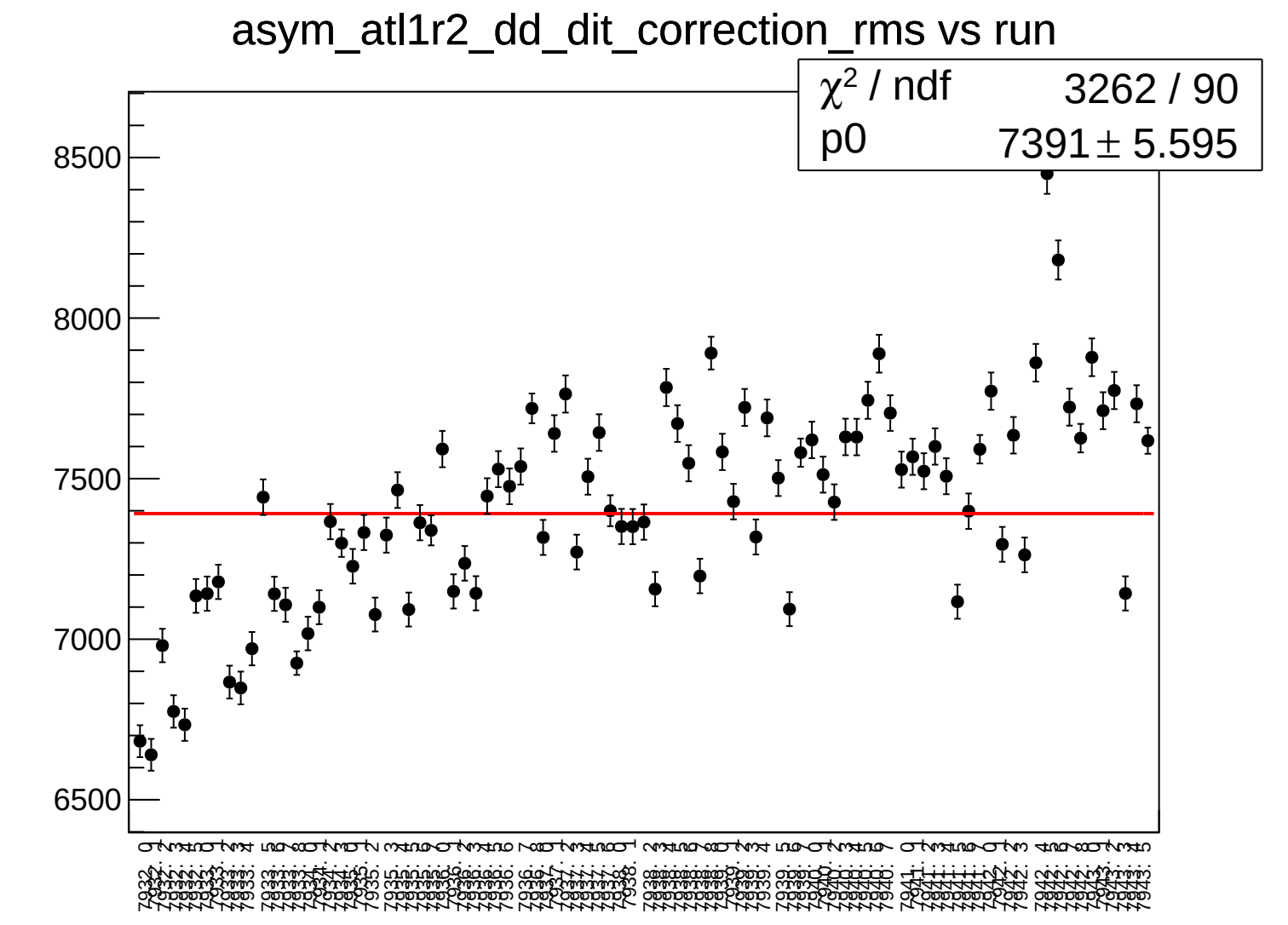

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 93.23 / 90
p0 −185.8 ± 1991
pull
Entries 91
Mean −129.6
Std Dev 0

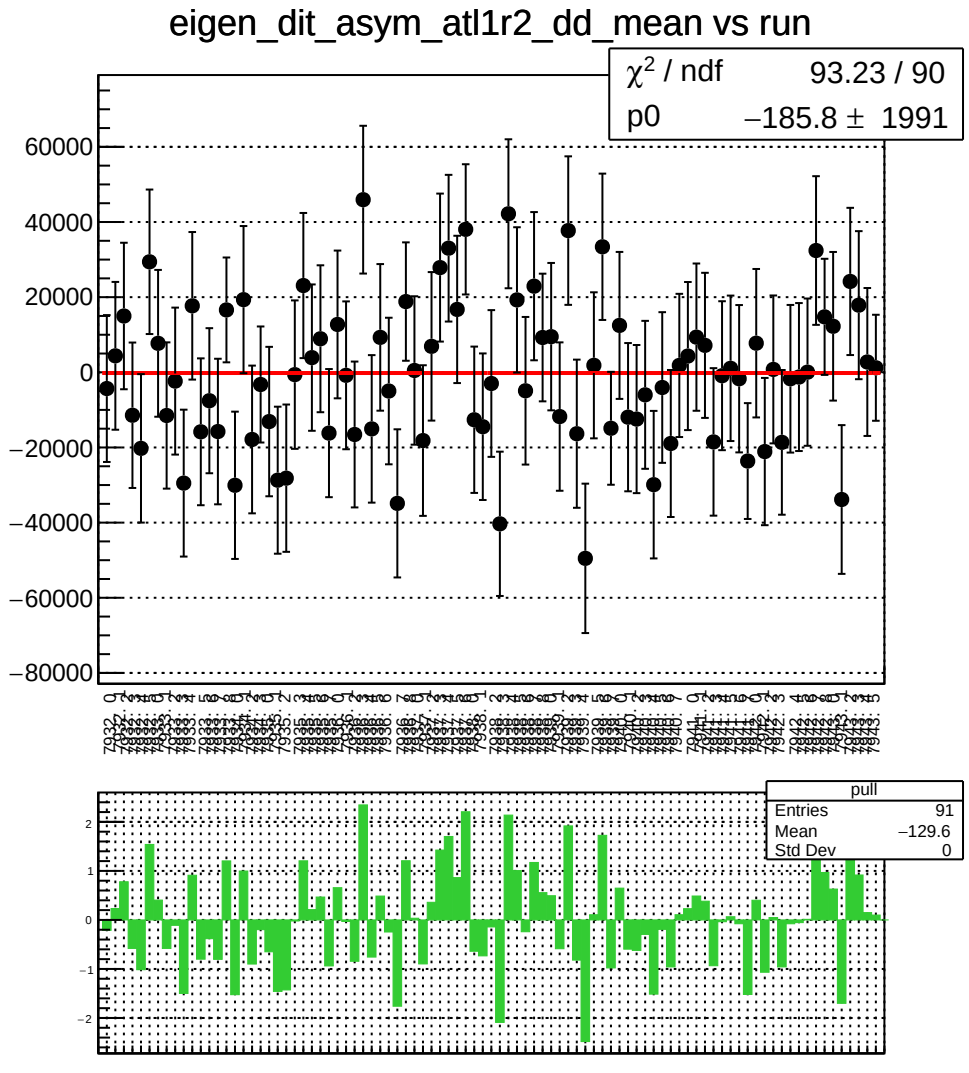

pull1D
Entries 91
Mean −0.006232
Std Dev 1.012

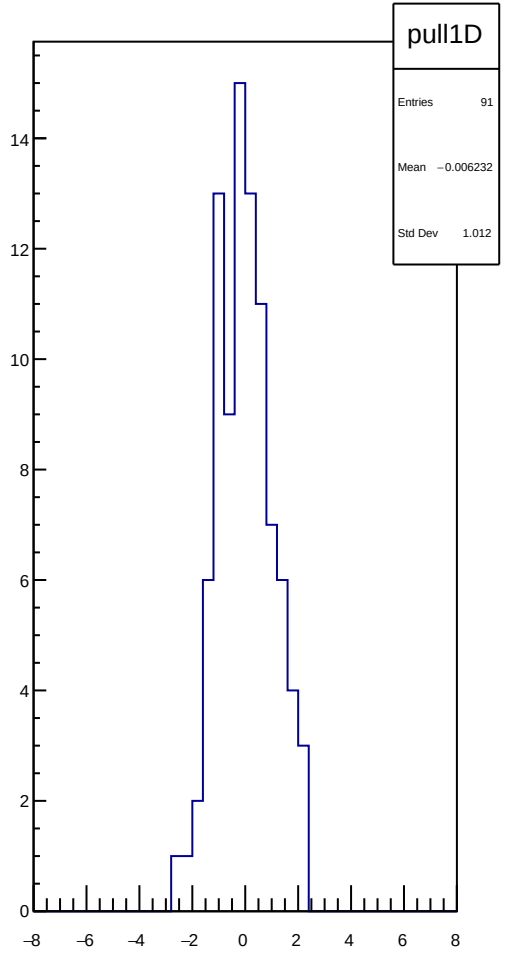

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 116.5 / 90
p0 1861 ± 1.407
1920
1900
1880
1860
1840
1820
1800

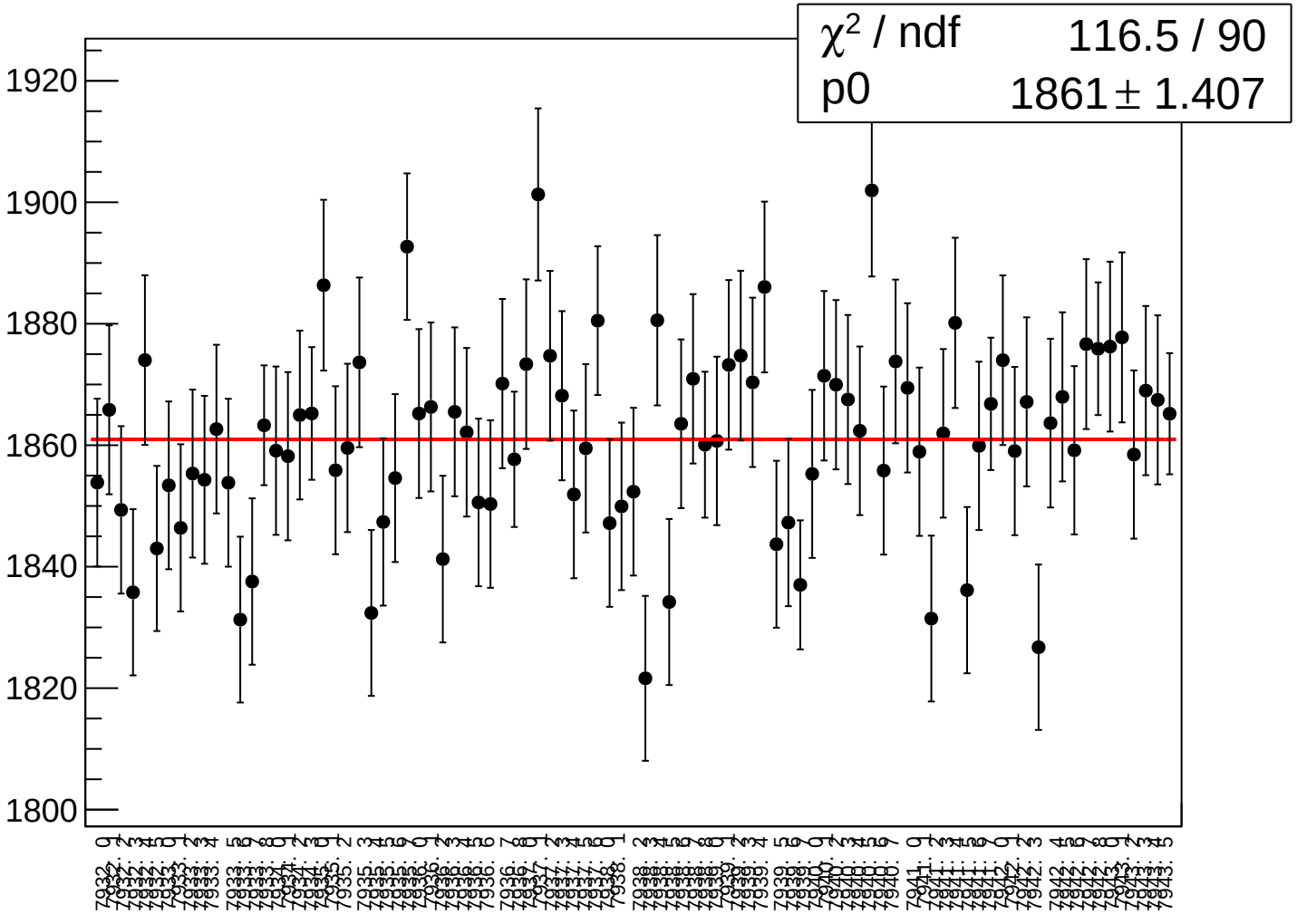

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 120.6 / 90
p0 2209 ± 7913
pull
Entries 91
Mean −241.2
Std Dev 0

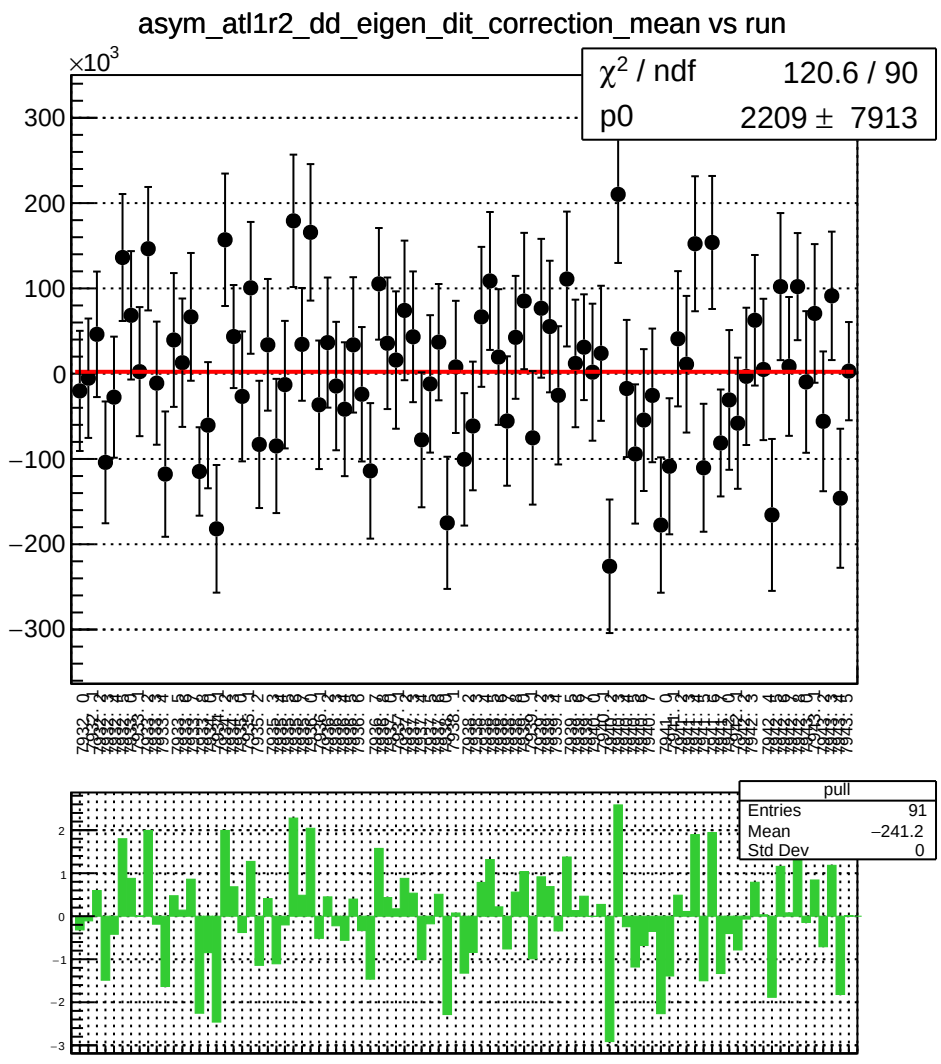

pull1D
Entries 91
Mean 0.004408
Std Dev 1.151

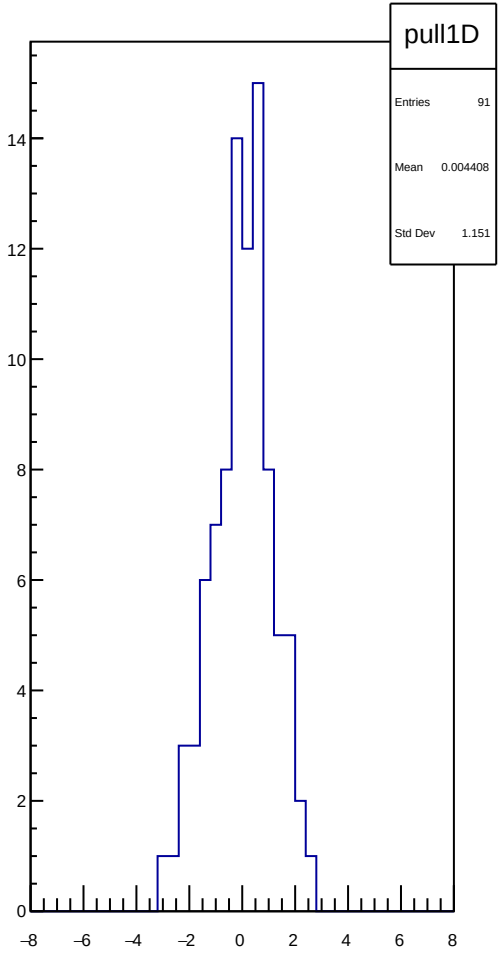

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3262 / 90
p0 7391 ± 5.595
8500
8000
7500
7000
6500

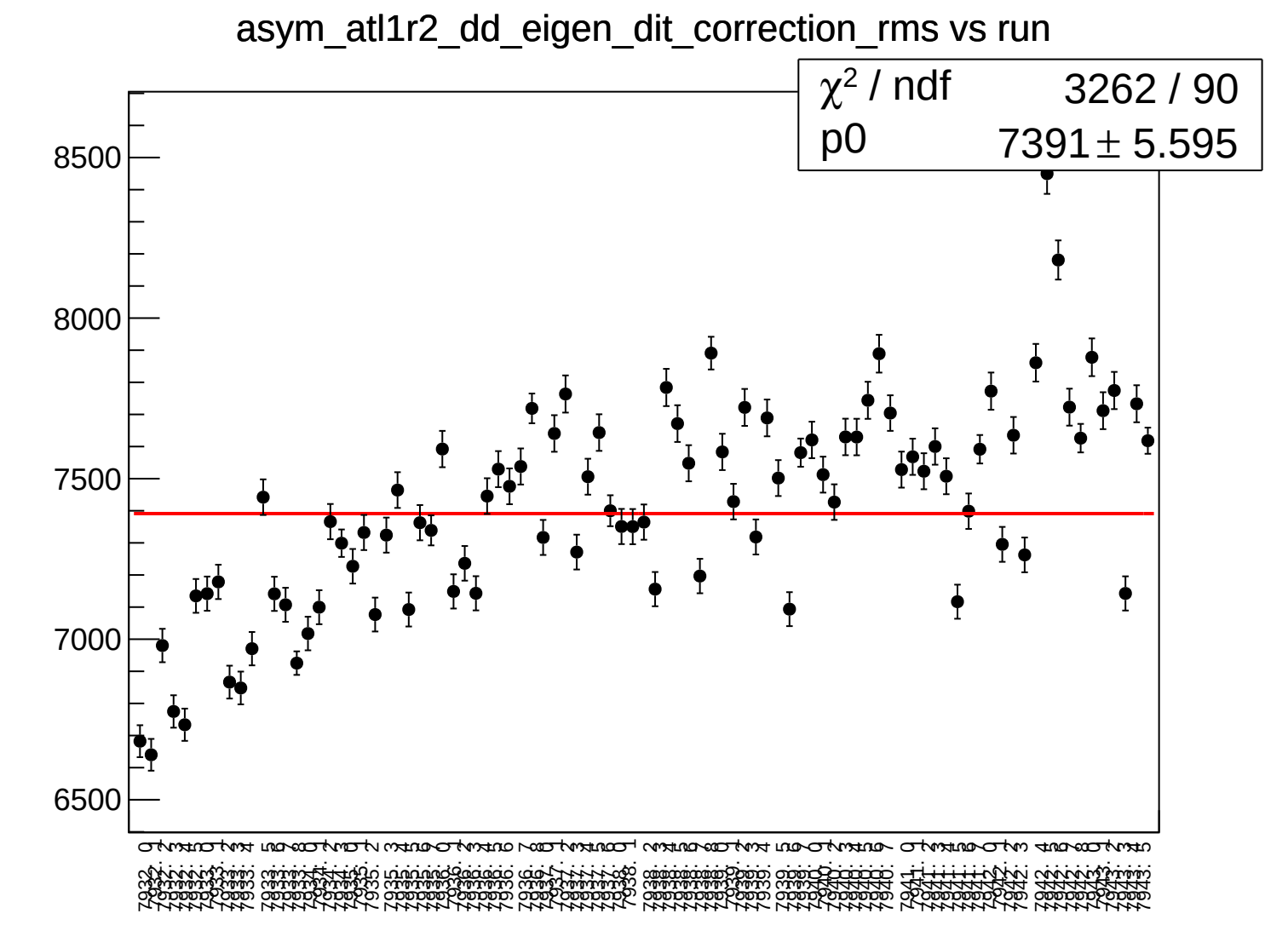

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 93.23 / 90
p0 −185.8 ± 1991
pull
Entries 91
Mean −129.6
Std Dev 0

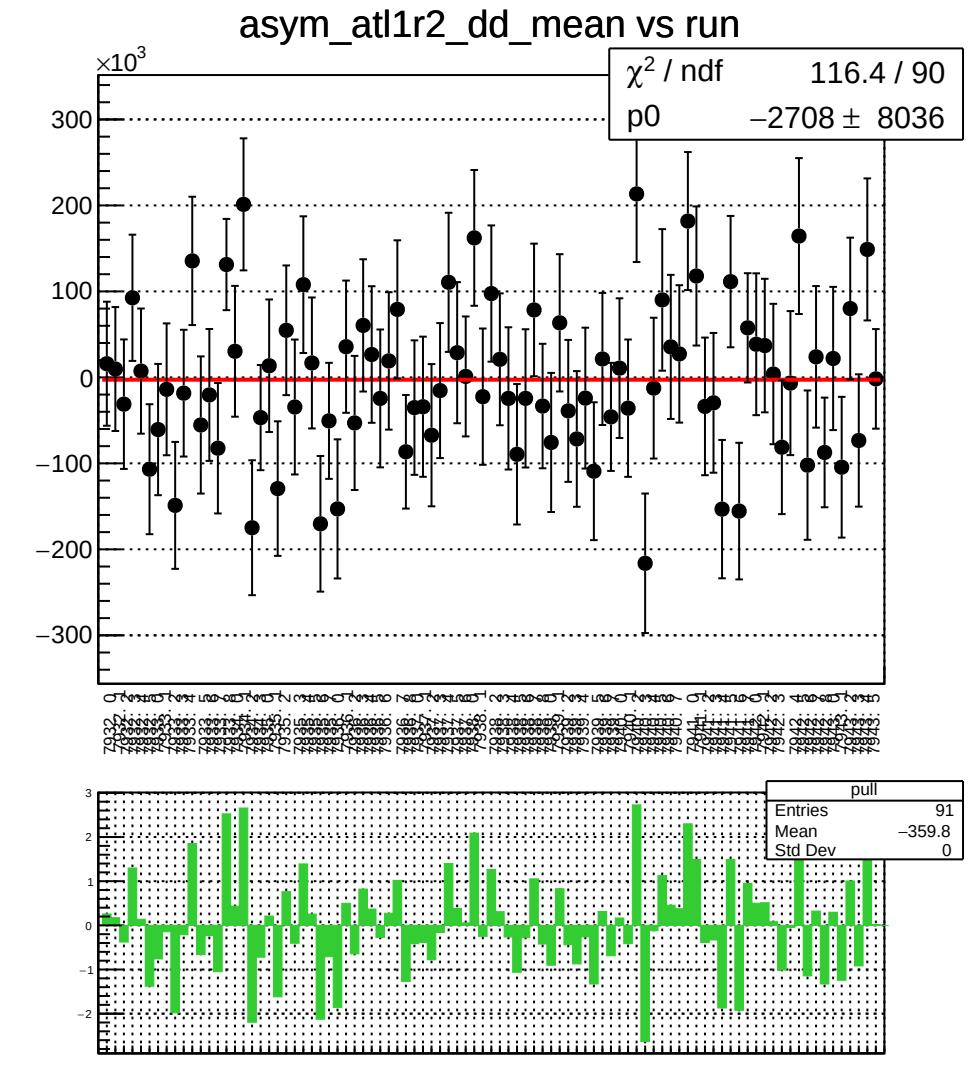

pull1D
Entries 91
Mean −0.006232
Std Dev 1.012

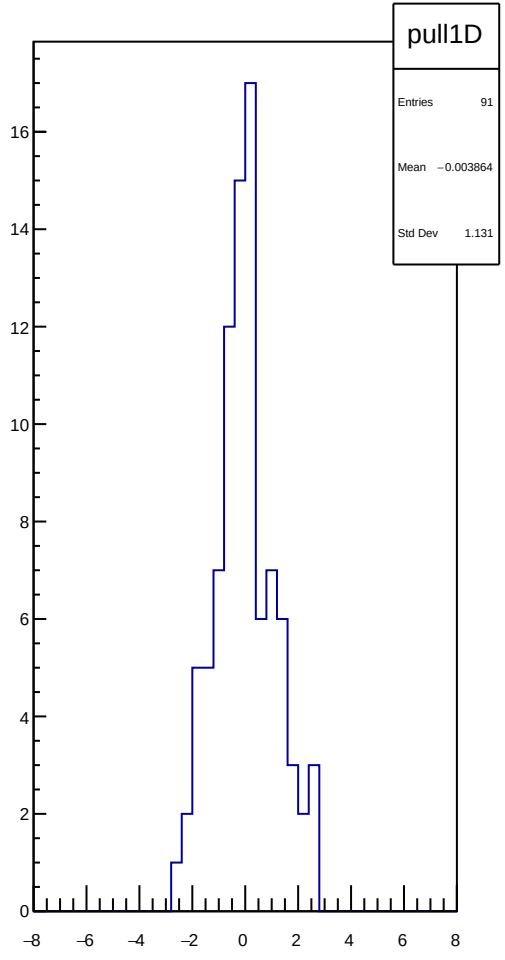

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 116.5 / 90
p0 1861 ± 1.407
1920
1900
1880
1860
1840
1820
1800

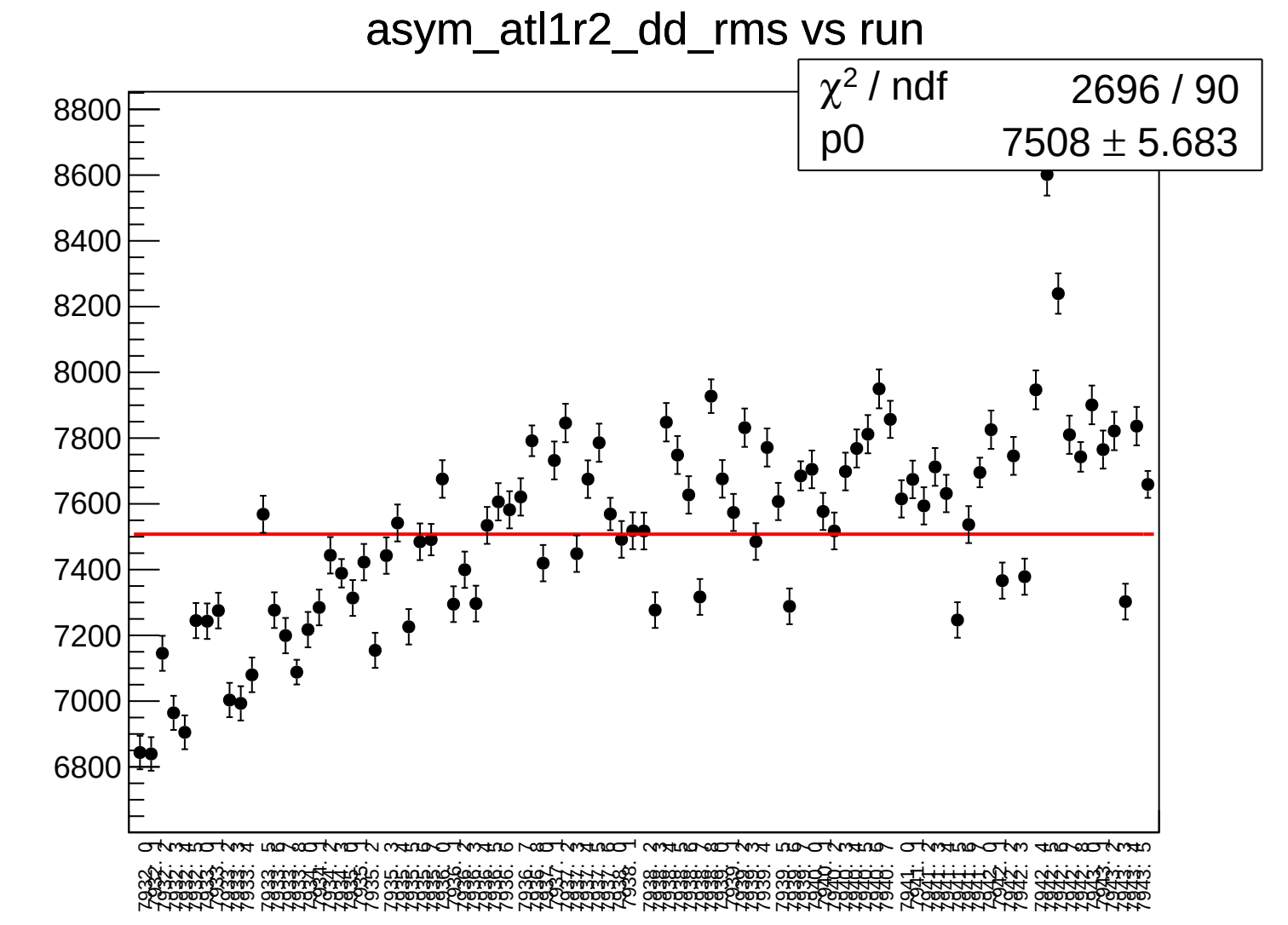

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.6 / 90
p0 2209 ± 7913
pull
Entries 91
Mean −241.2
Std Dev 0

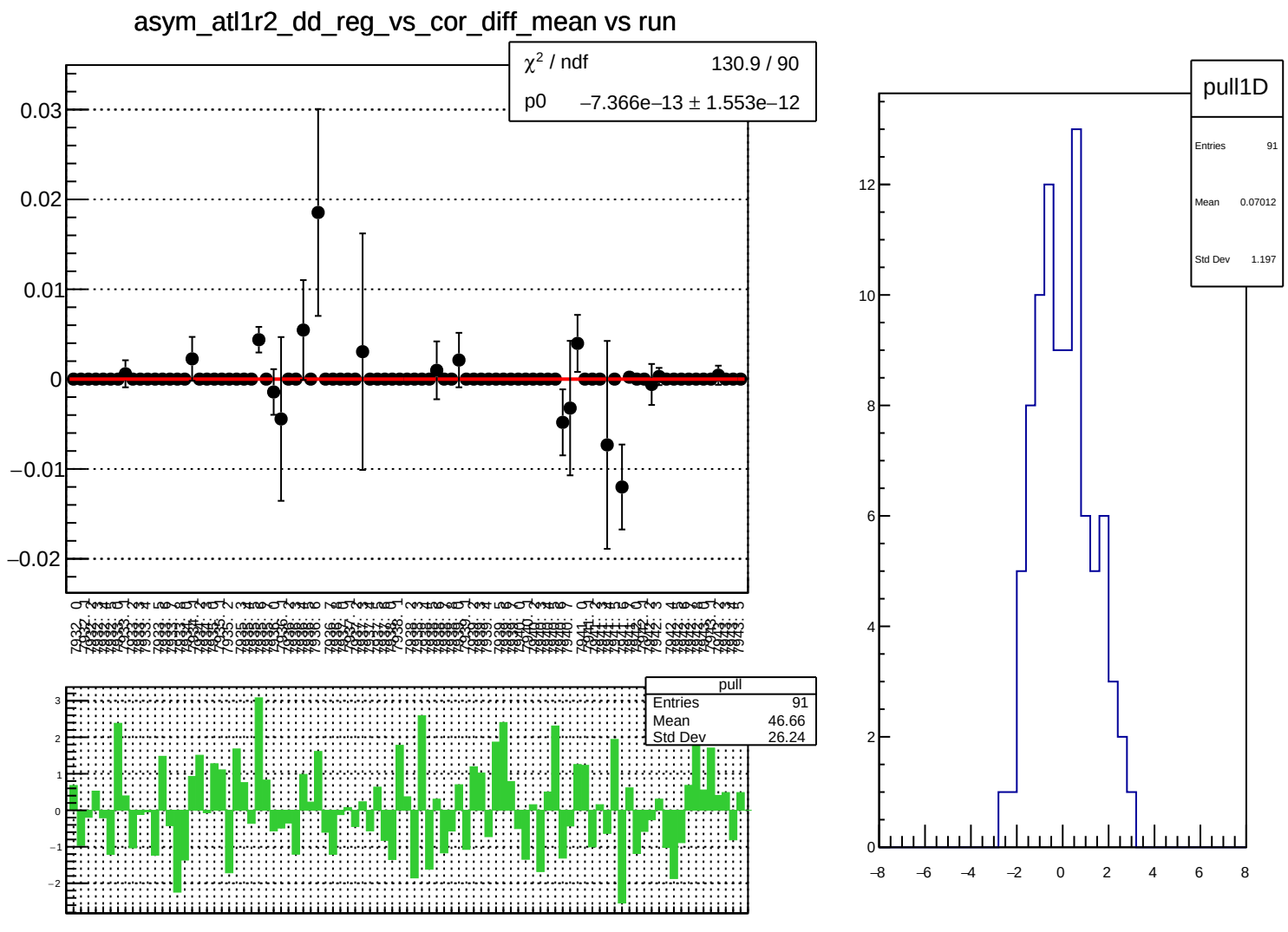

pull1D
Entries 91
Mean 0.004408
Std Dev 1.151

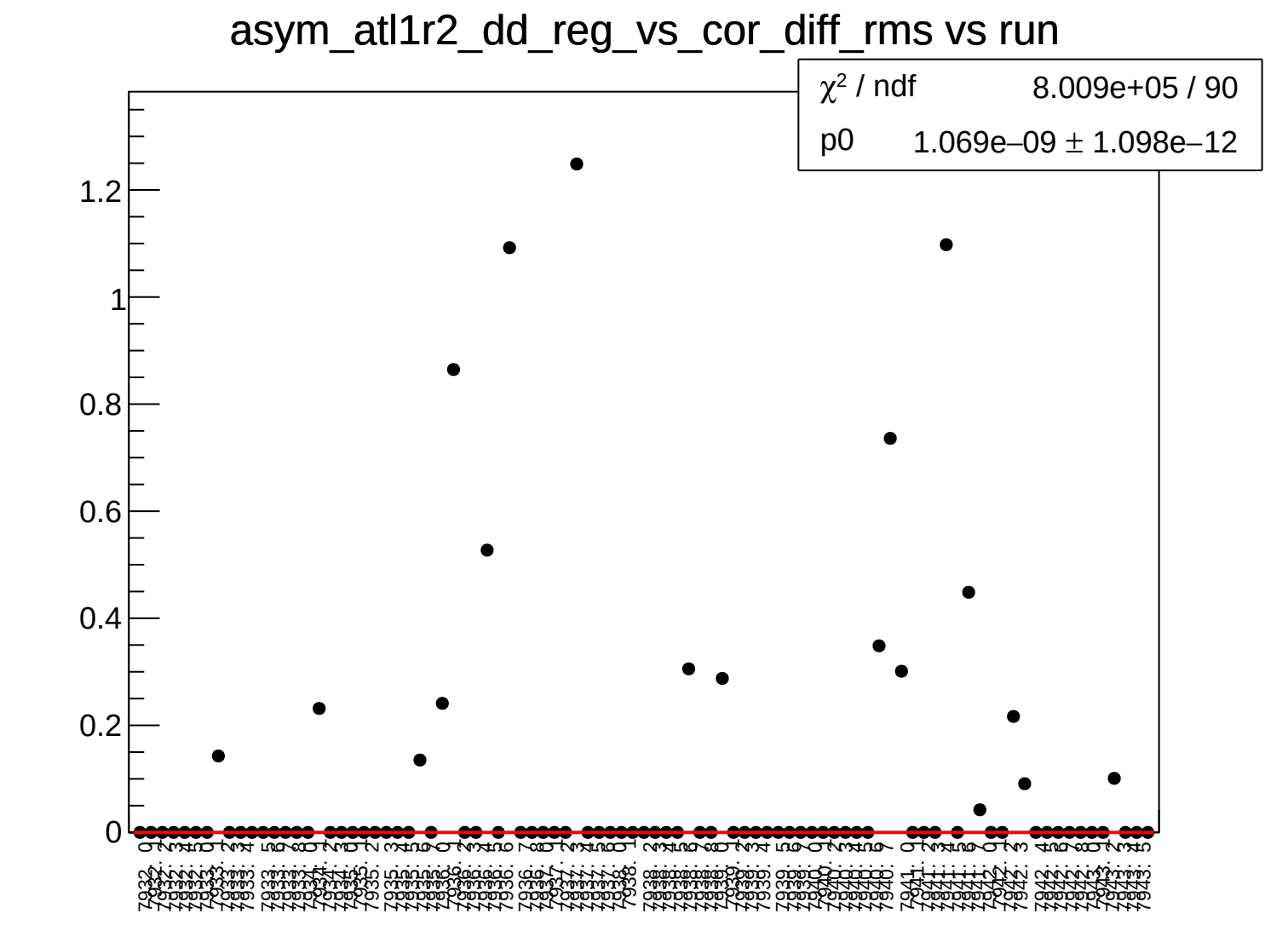

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3262 / 90
p0 7391 ± 5.595
8500
8000
7500
7000
6500

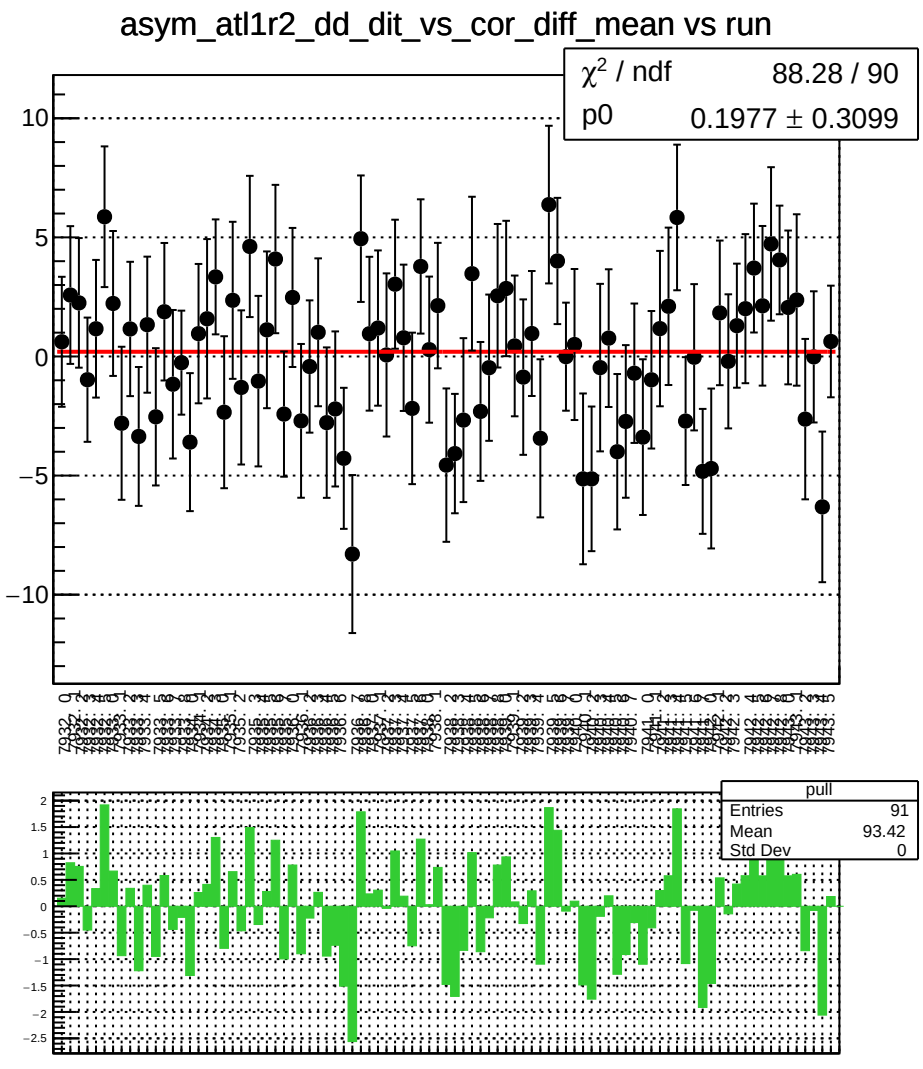

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 116.4 / 90
p0 −2708 ± 8036
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −359.8
Std Dev 0
3
2
1
0
−1
−2

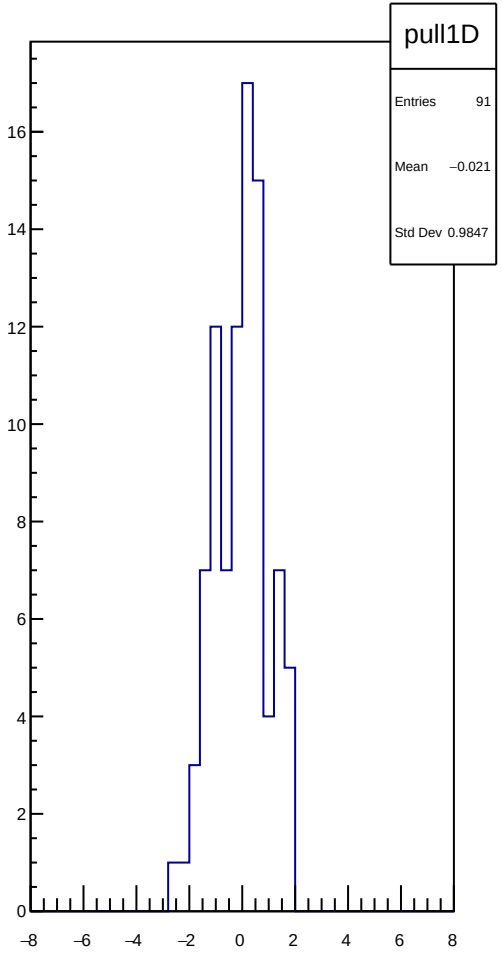

pull1D
Entries 91
Mean −0.003864
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

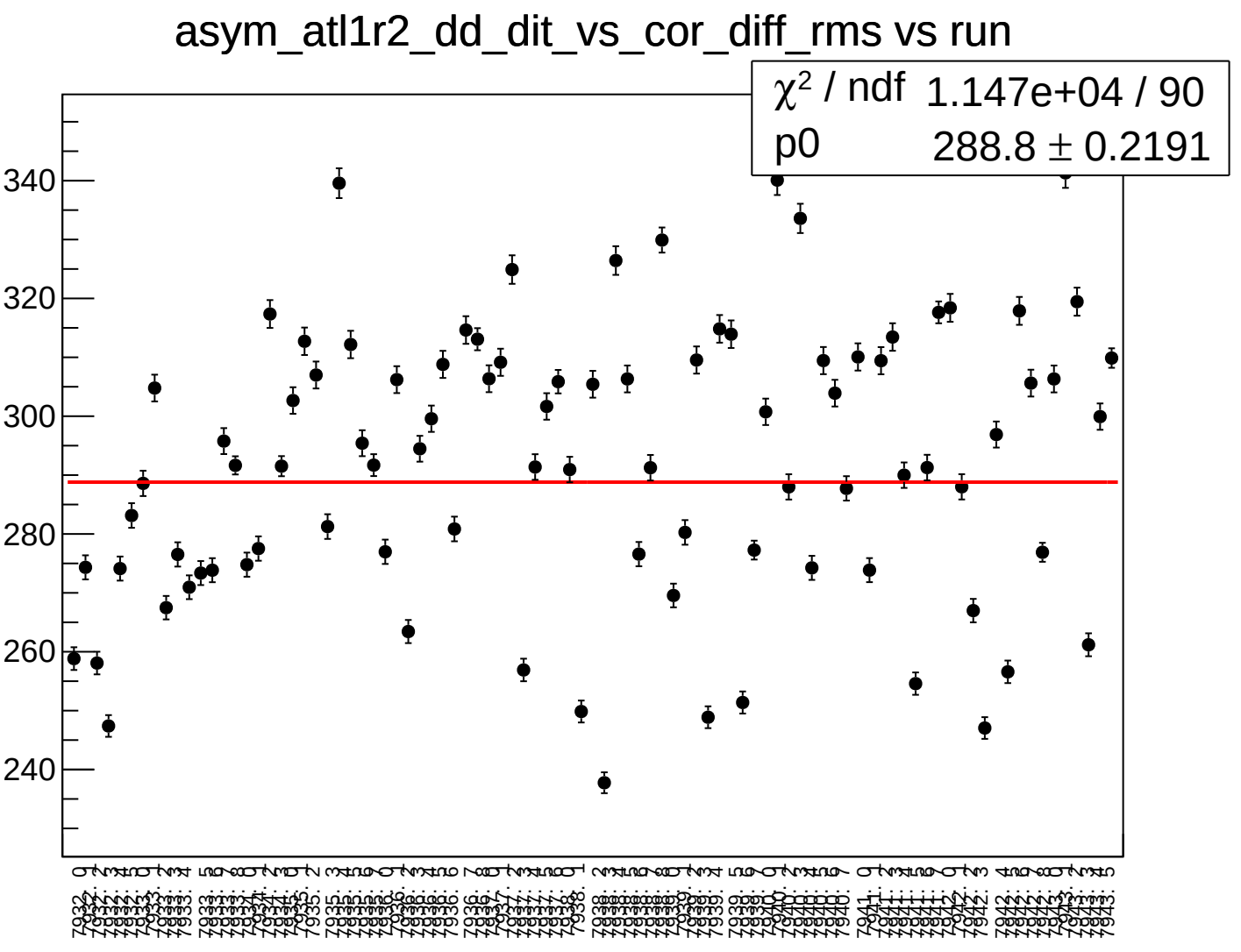

asym_atl1r2_dd_rms vs run
χ² / ndf 2696 / 90
p0 7508 ± 5.683
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

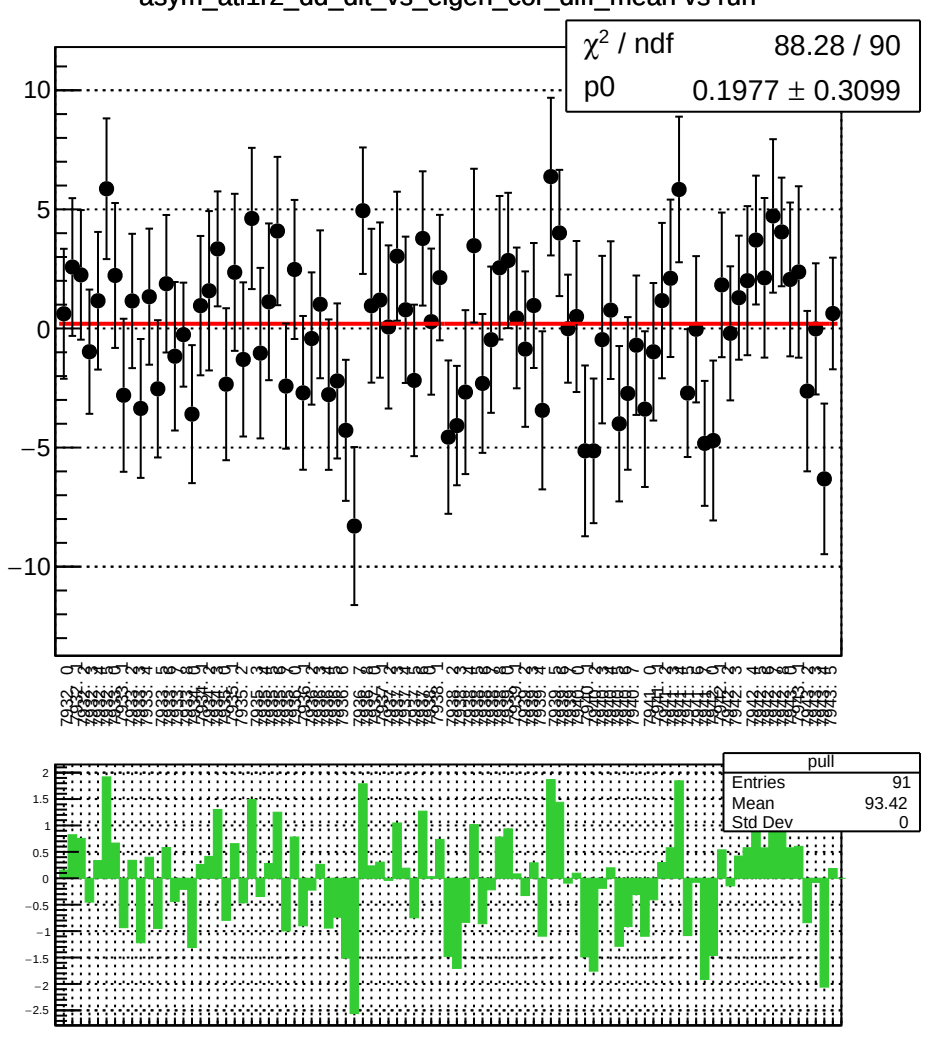

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 130.9 / 90
p0 −7.366e−13 ± 1.553e−12
pull
Entries 91
Mean 46.66
Std Dev 26.24
pull1D
Entries 91
Mean 0.07012
Std Dev 1.197

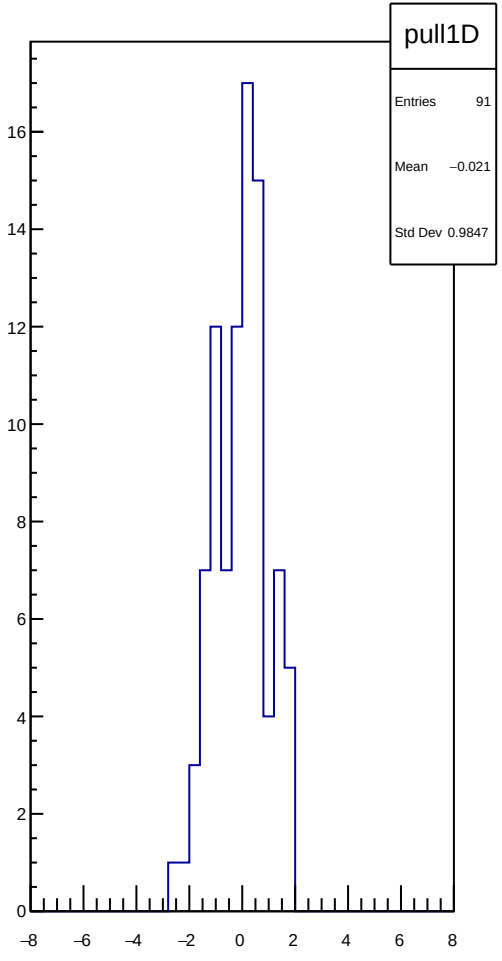

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.009e+05 / 90
p0 1.069e−09 ± 1.098e−12
1.2
1
0.8
0.6
0.4
0.2
0

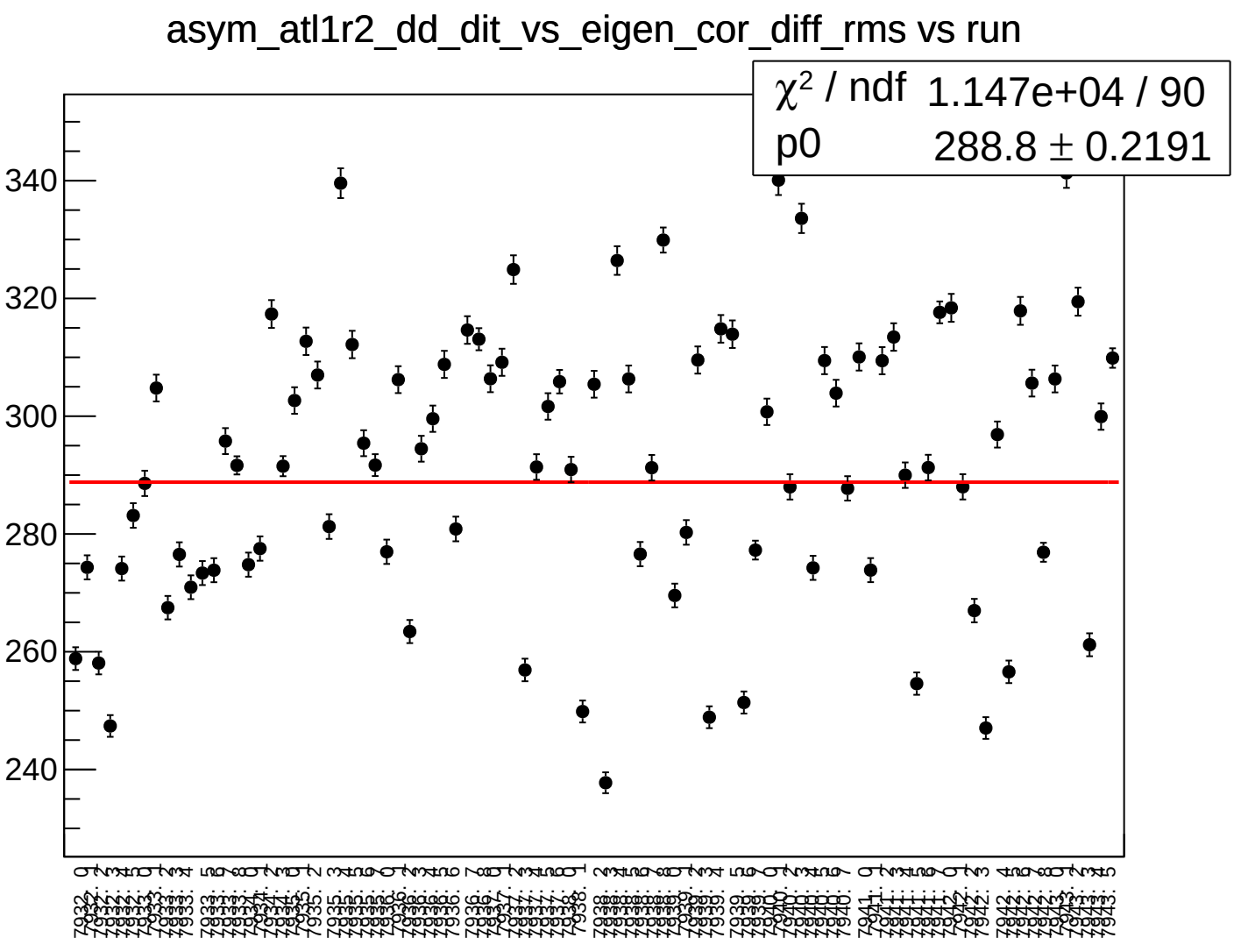

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.28 / 90
p0 0.1977 ± 0.3099
pull
Entries 91
Mean 93.42
Std Dev 0

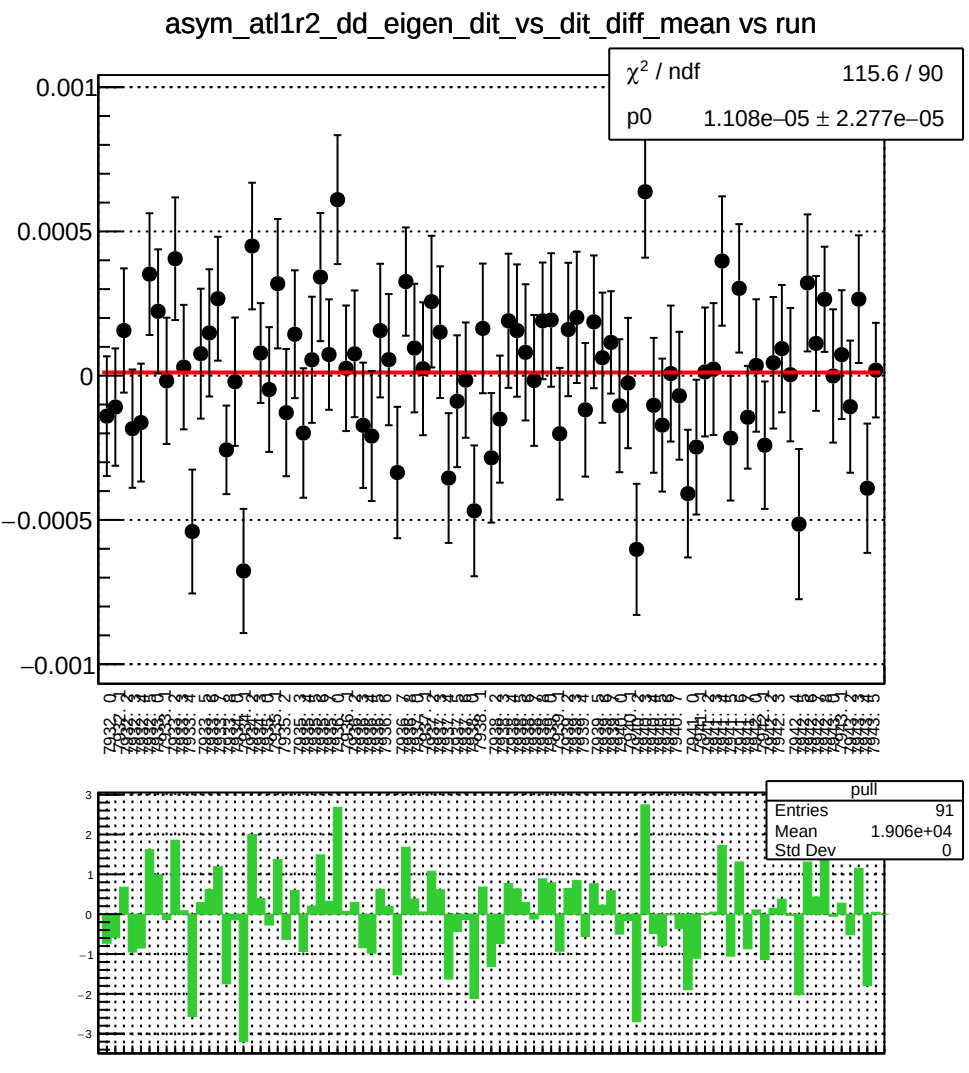

pull1D
Entries 91
Mean −0.021
Std Dev 0.9847

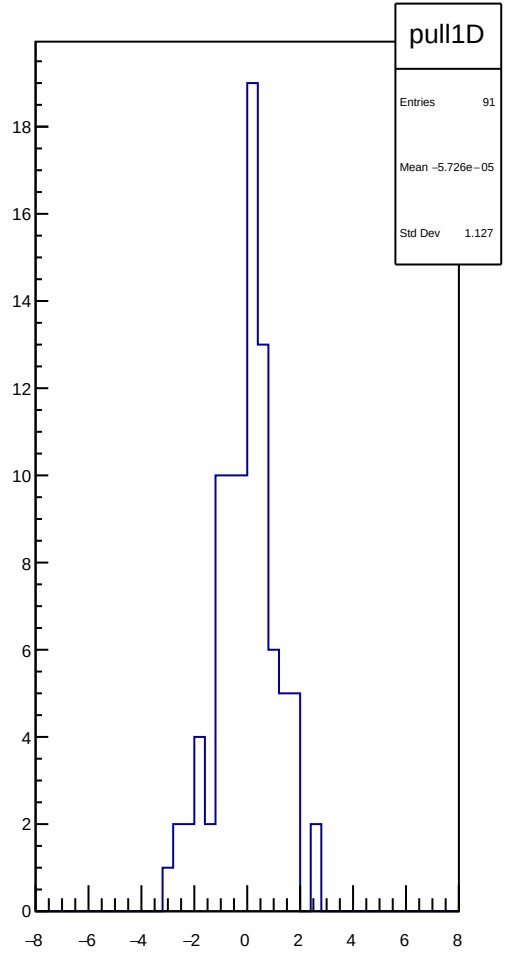

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.147e+04 / 90
p0 288.8 ± 0.2191
340
320
300
280
260
240

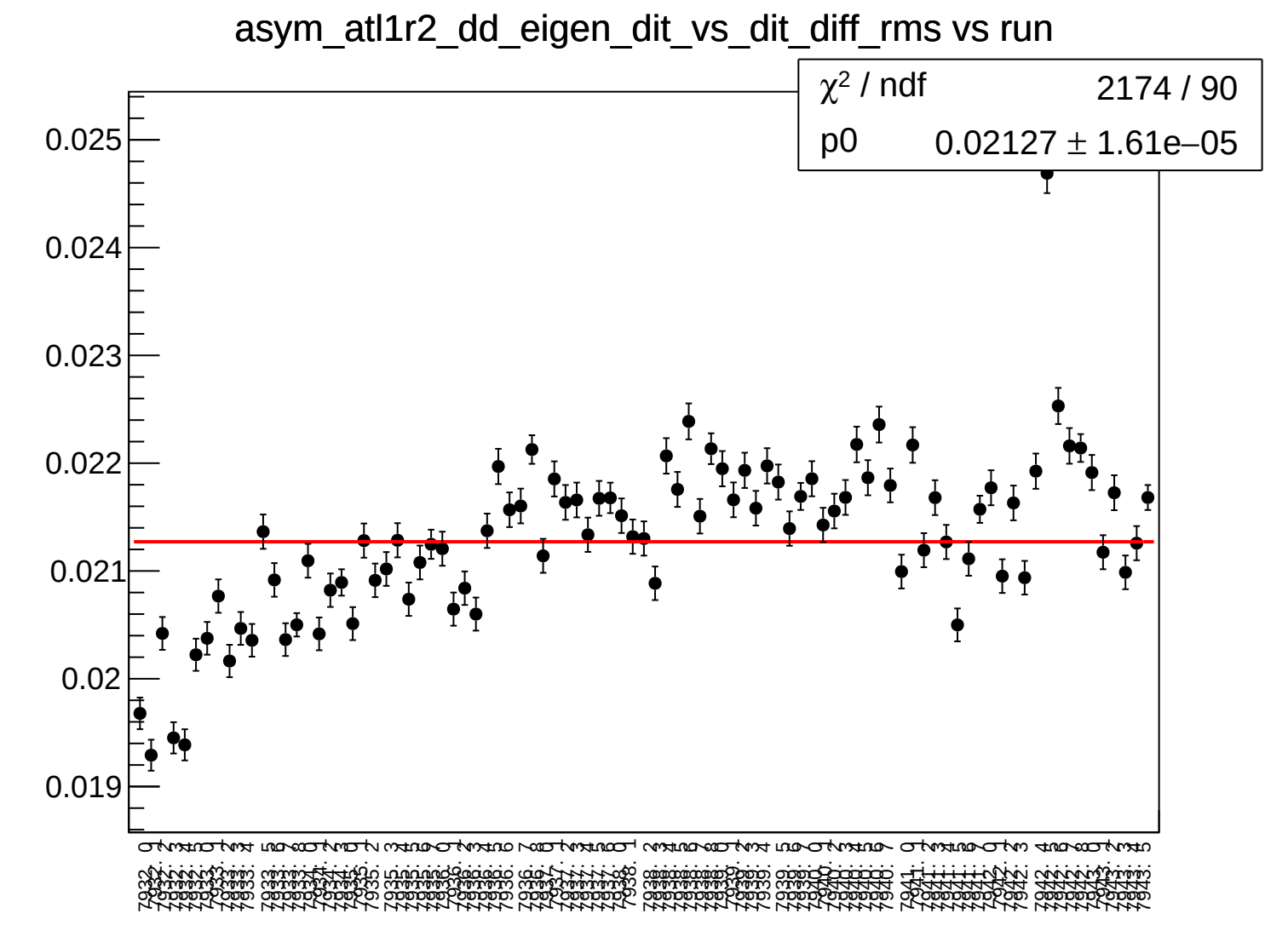

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.28 / 90
p0 0.1977 ± 0.3099
pull
Entries 91
Mean 93.42
Std Dev 0

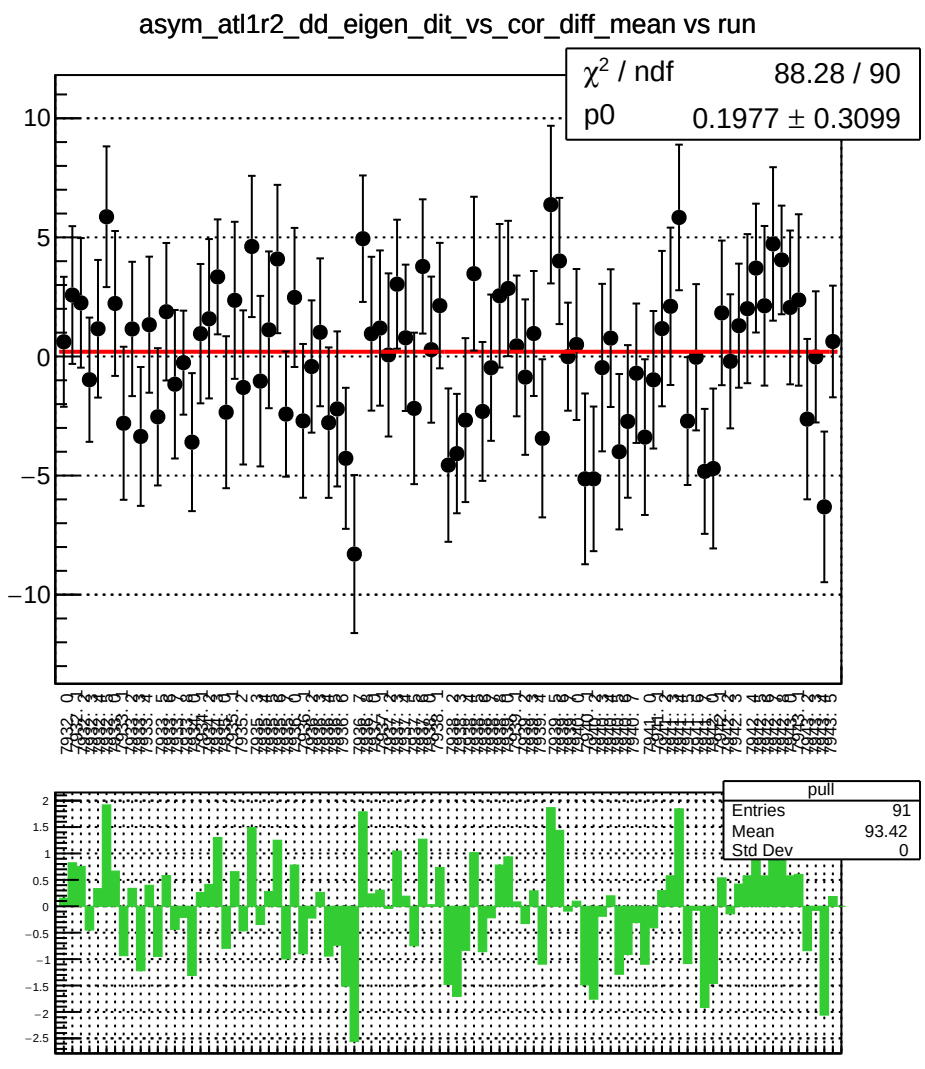

pull1D
Entries 91
Mean −0.021
Std Dev 0.9847

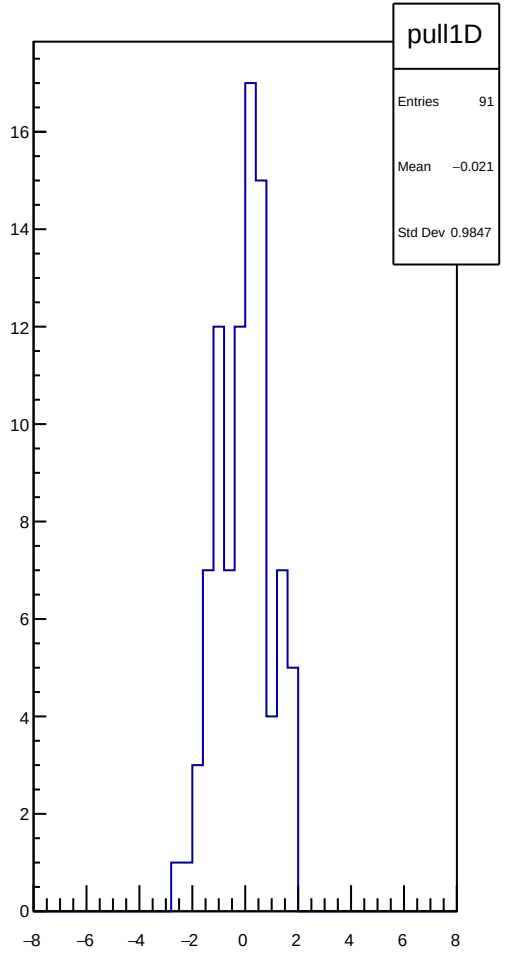

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.147e+04 / 90
p0 288.8 ± 0.2191
340
320
300
280
260
240

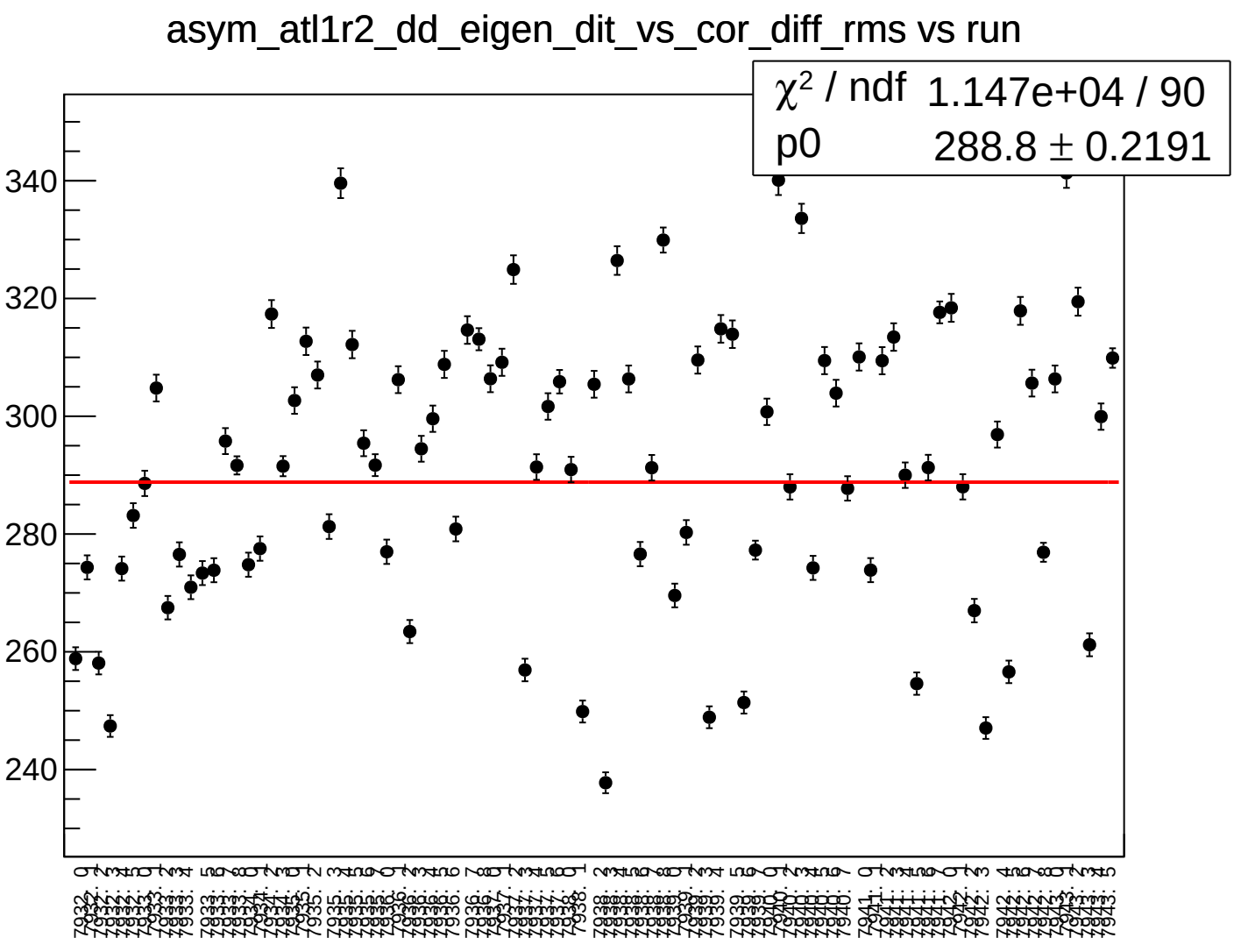

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.6 / 90
p0 1.108e−05 ± 2.277e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 1.906e+04
Std Dev 0
3
2
1
0
−1
−2
−3

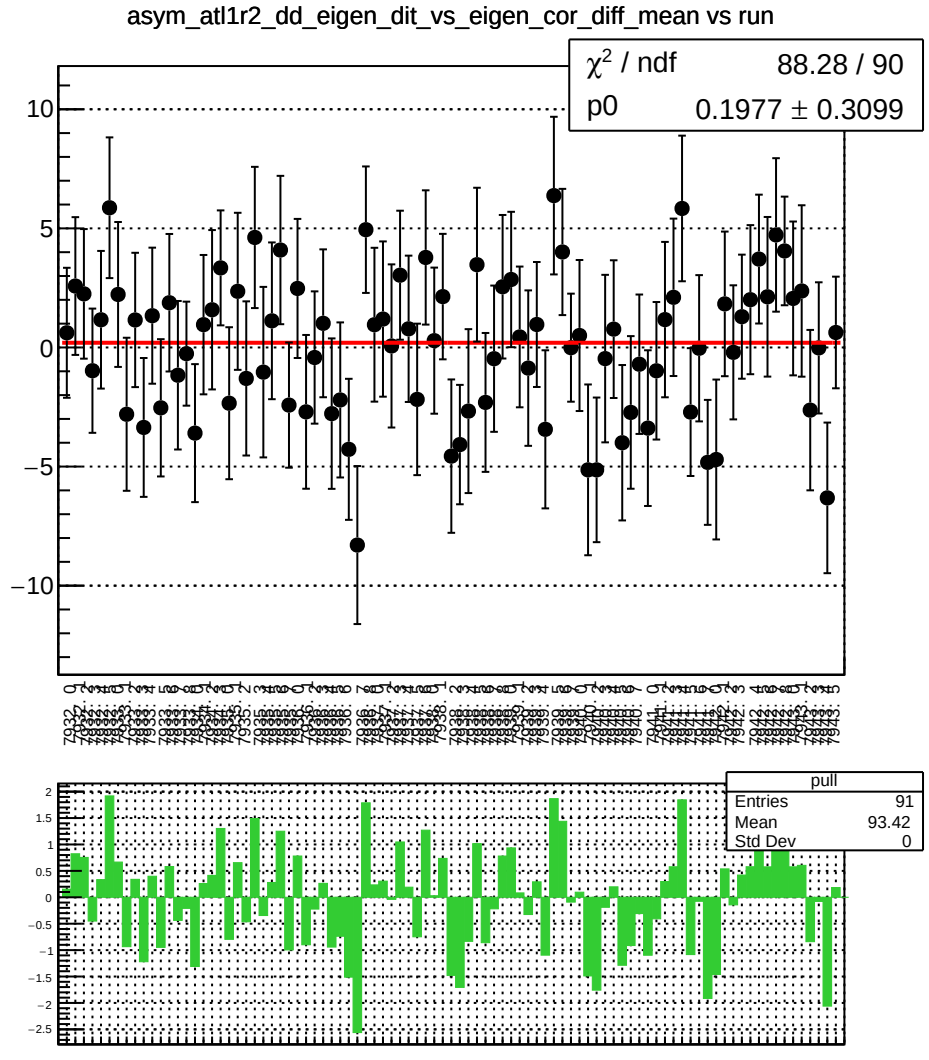

pull1D
Entries 91
Mean −5.726e−05
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

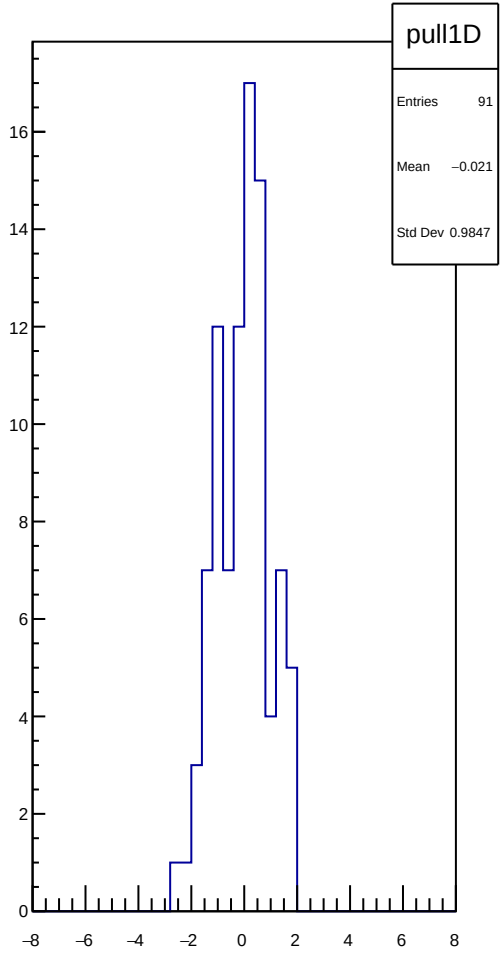

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2174 / 90
p0 0.02127 ± 1.61e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019

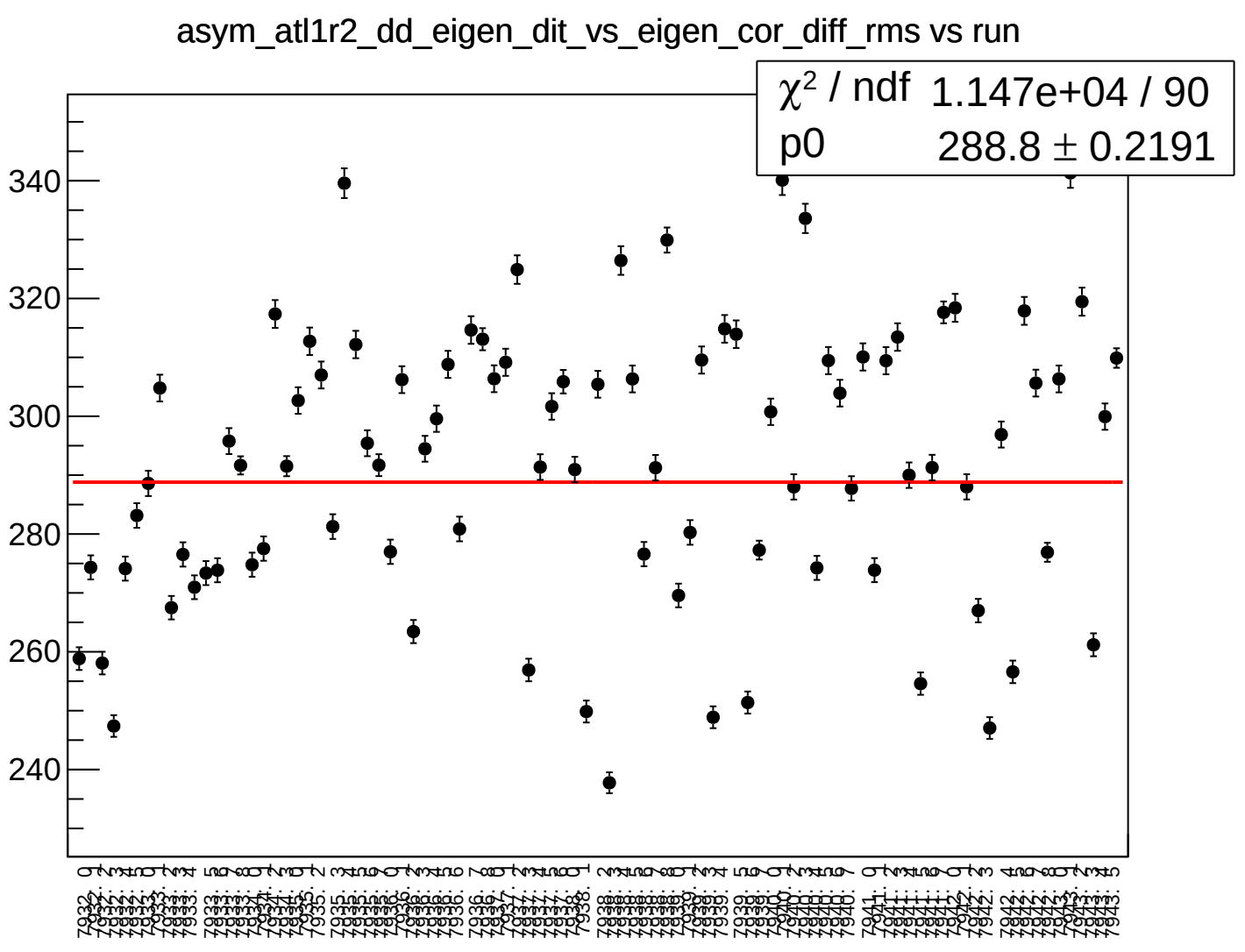

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.28 / 90
p0 0.1977 ± 0.3099
pull
Entries 91
Mean 93.42
Std Dev 0

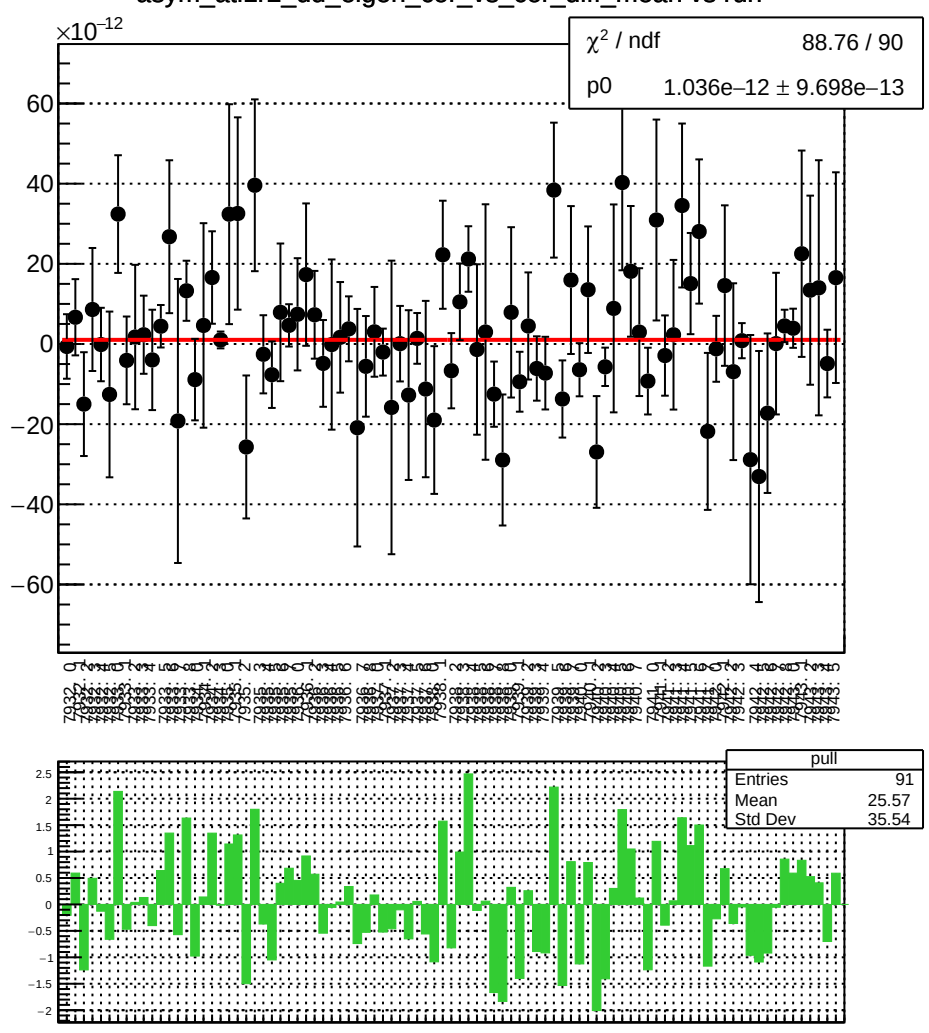

pull1D
Entries 91
Mean −0.021
Std Dev 0.9847

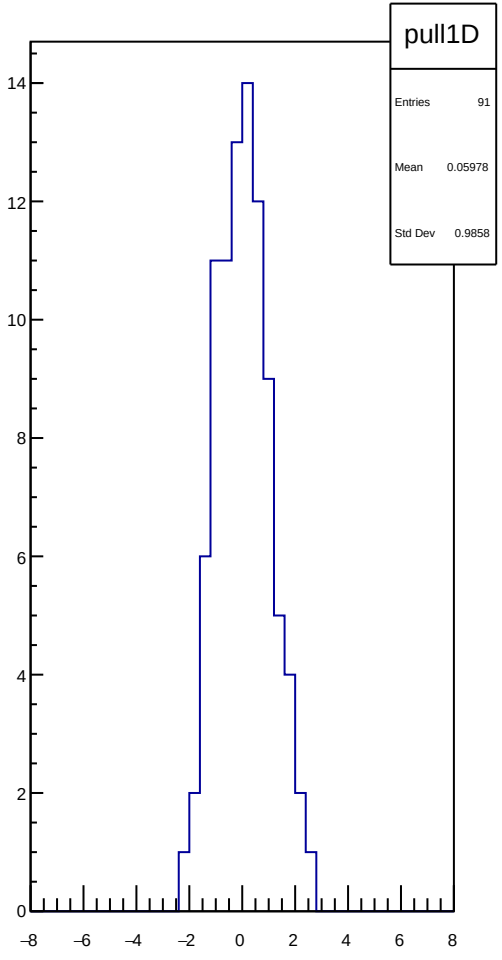

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.147e+04 / 90
p0 288.8 ± 0.2191
340
320
300
280
260
240

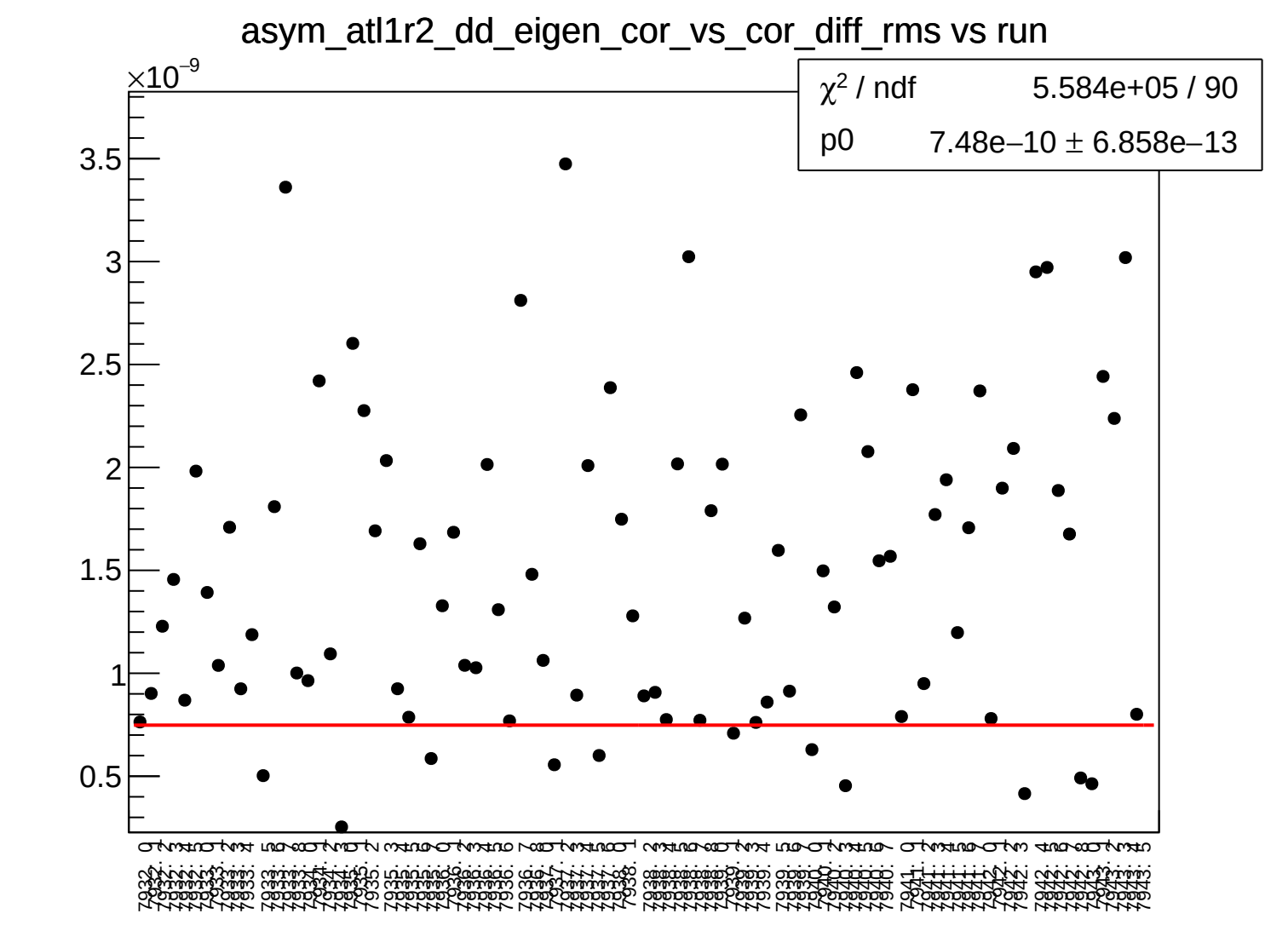

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.28 / 90
p0 0.1977 ± 0.3099
pull
Entries 91
Mean 93.42
Std Dev 0

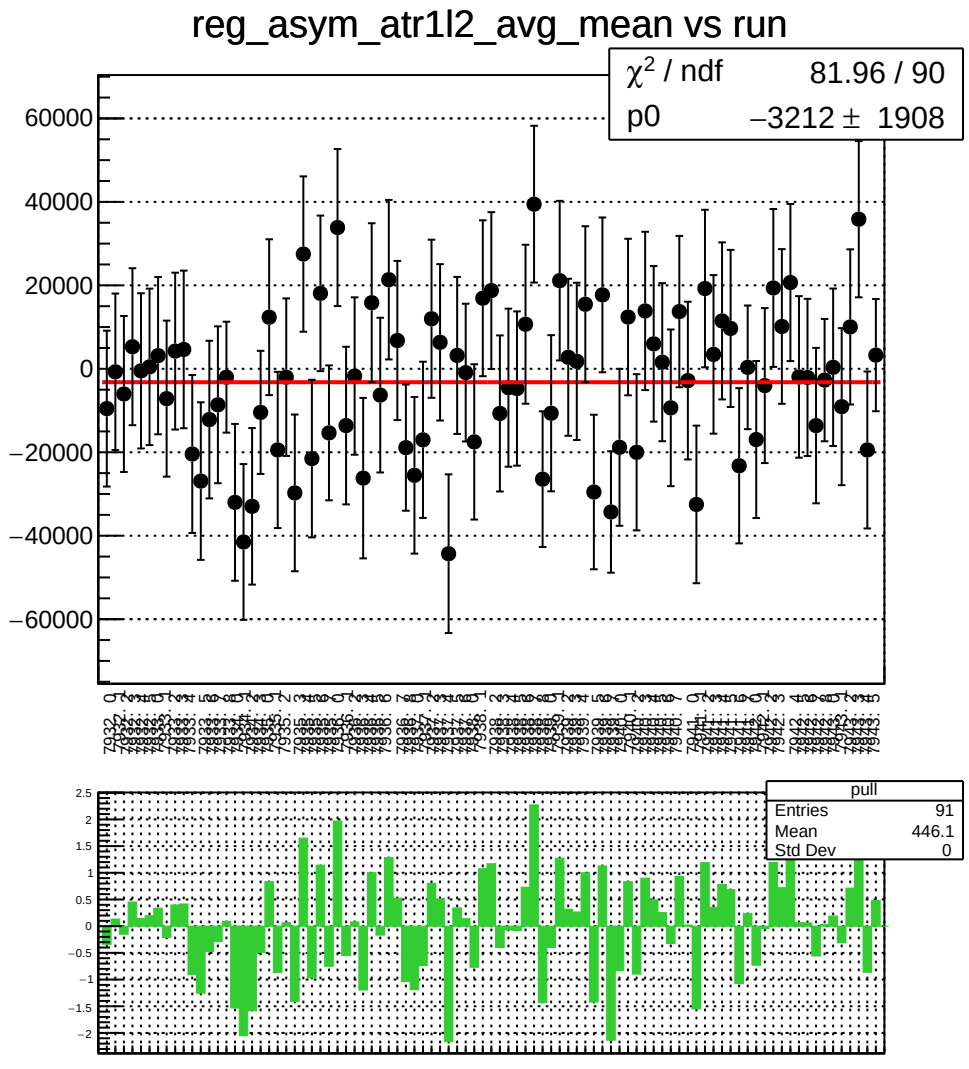

pull1D
Entries 91
Mean −0.021
Std Dev 0.9847

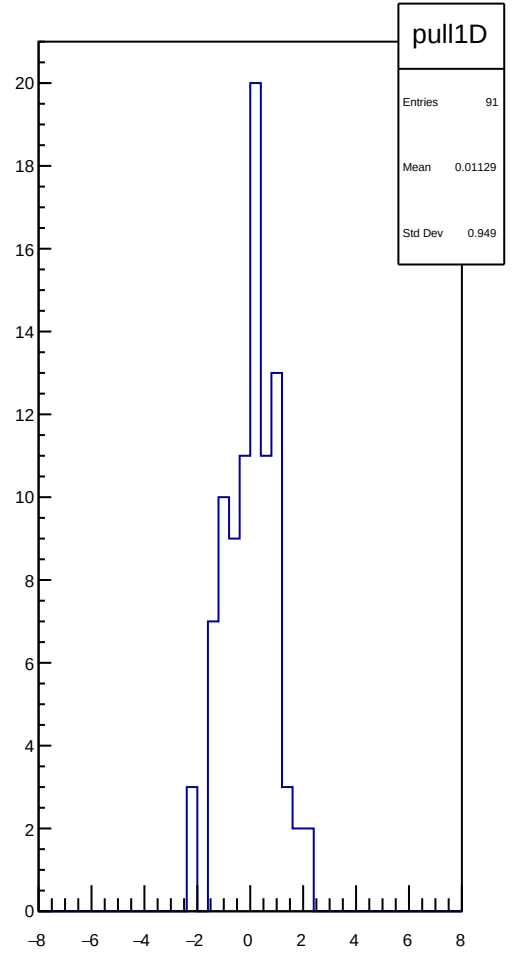

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.147e+04 / 90
p0 288.8 ± 0.2191
340
320
300
280
260
240

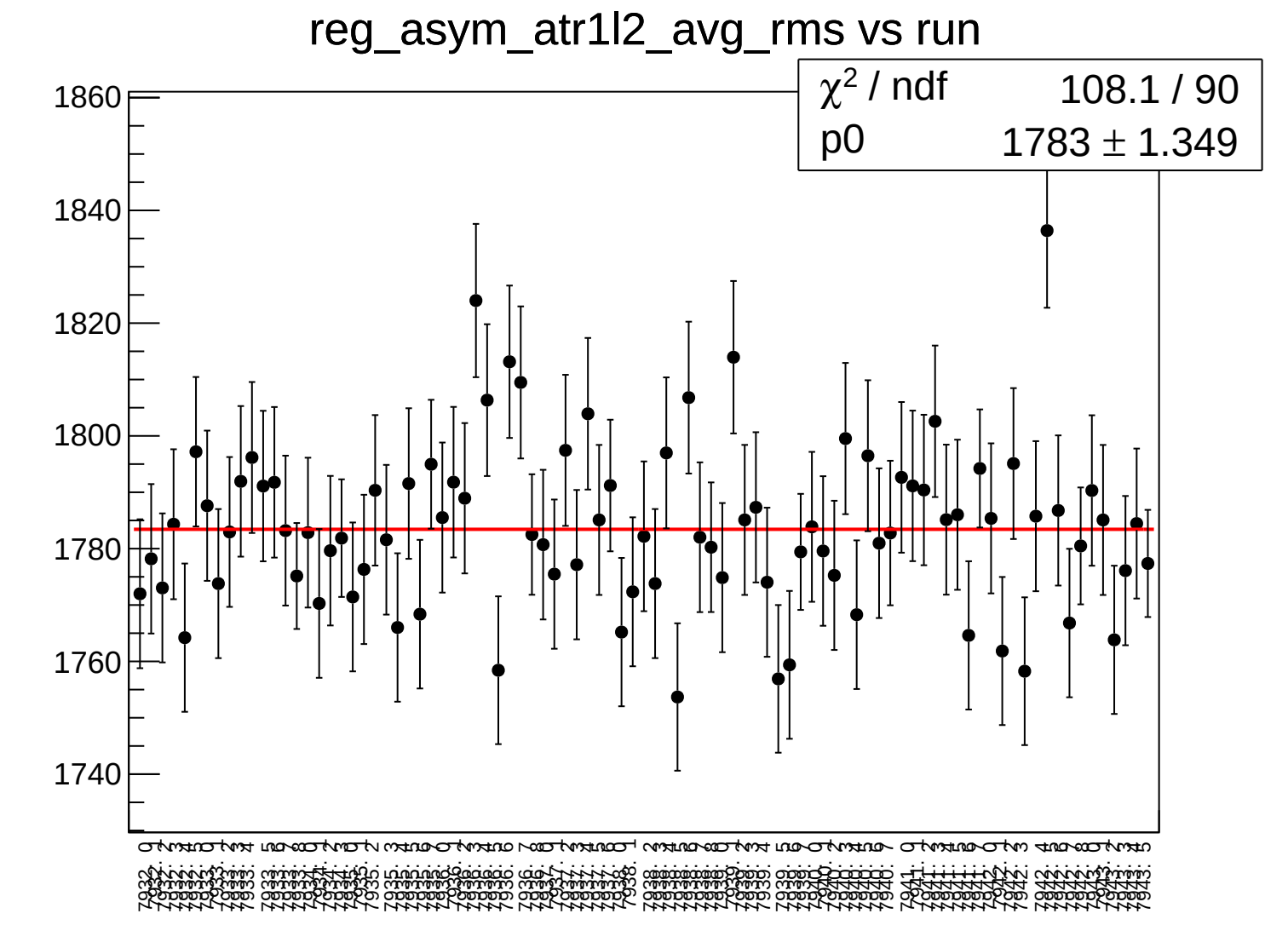

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.76 / 90
p0 1.036e−12 ± 9.698e−13
pull
Entries 91
Mean 25.57
Std Dev 35.54

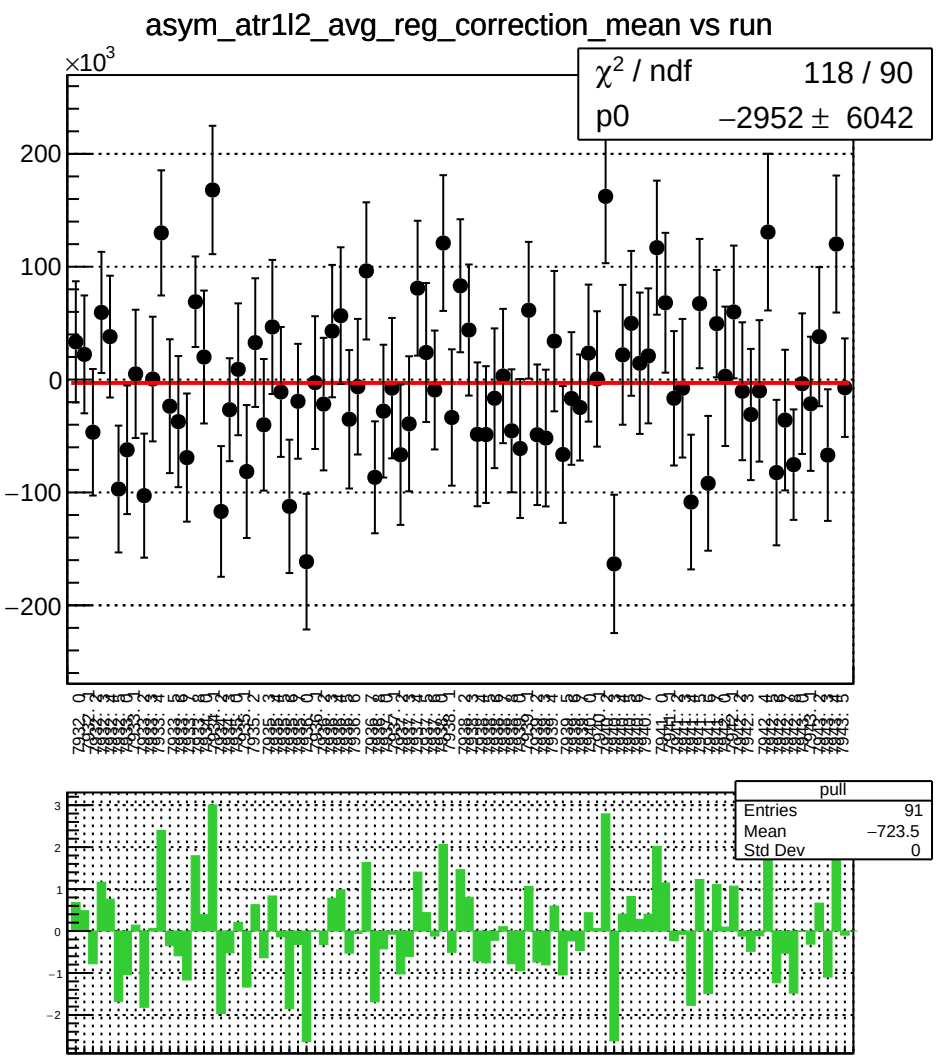

pull1D
Entries 91
Mean 0.05978
Std Dev 0.9858

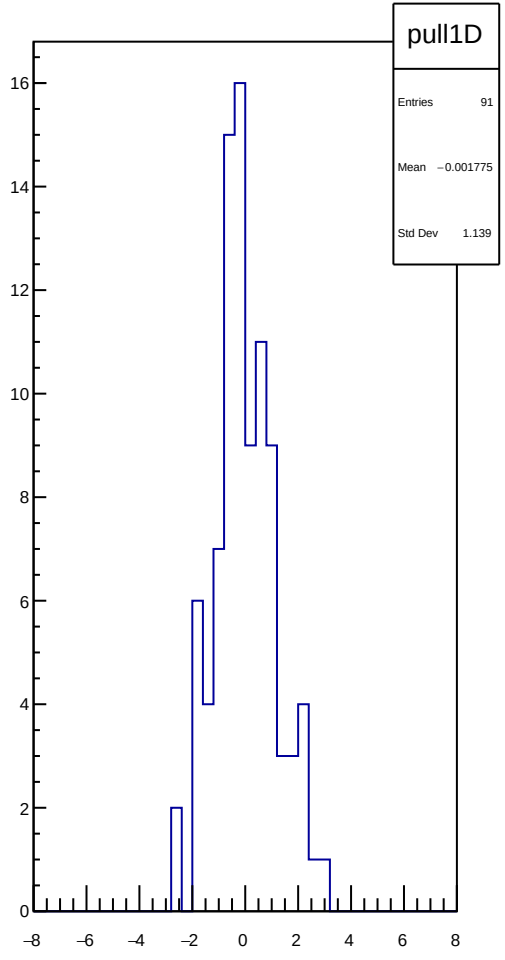

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.584e+05 / 90
p0 7.48e−10 ± 6.858e−13
3.5
3
2.5
2
1.5
1
0.5

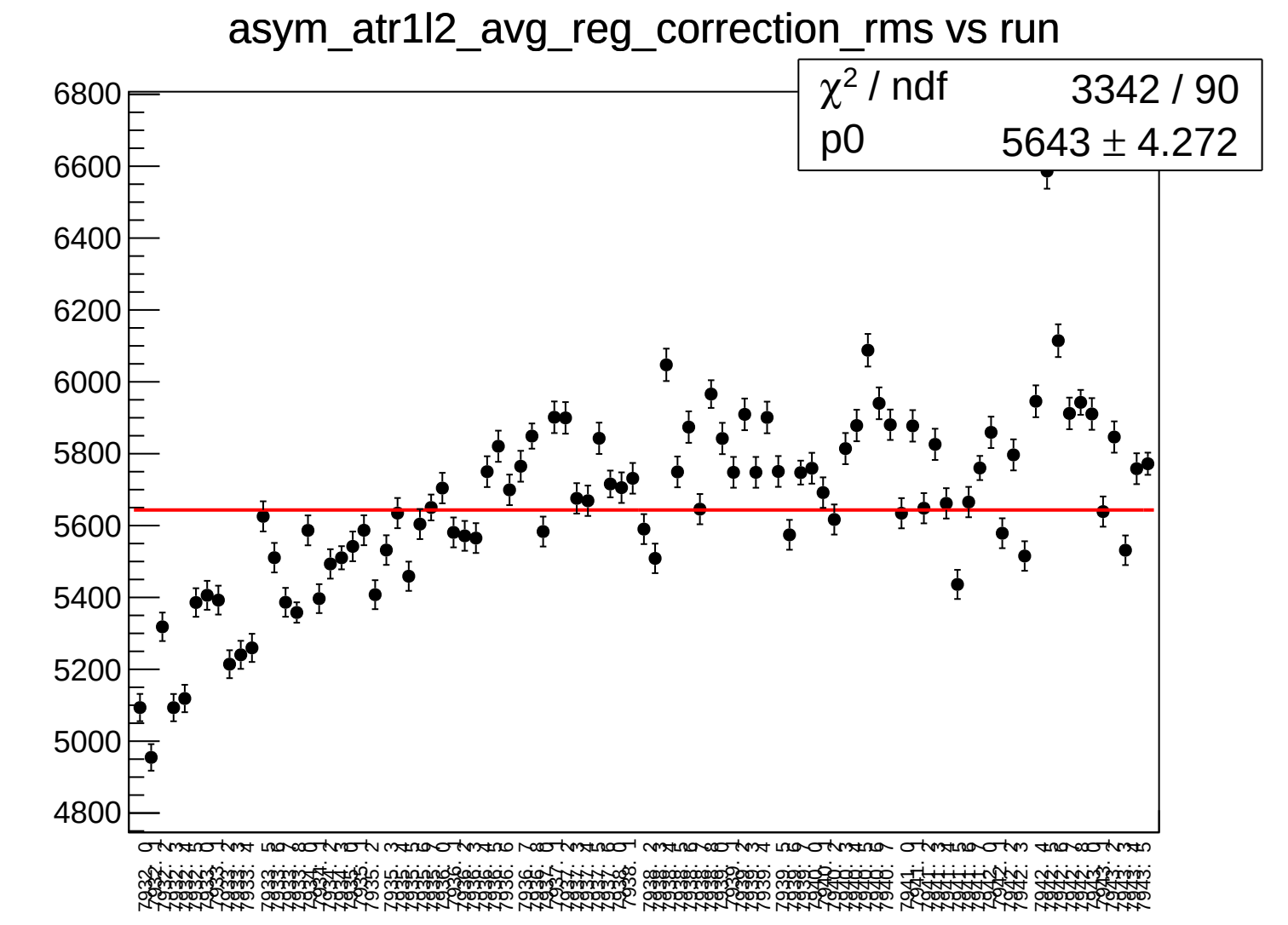

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 81.96 / 90
p0 −3212 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 446.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

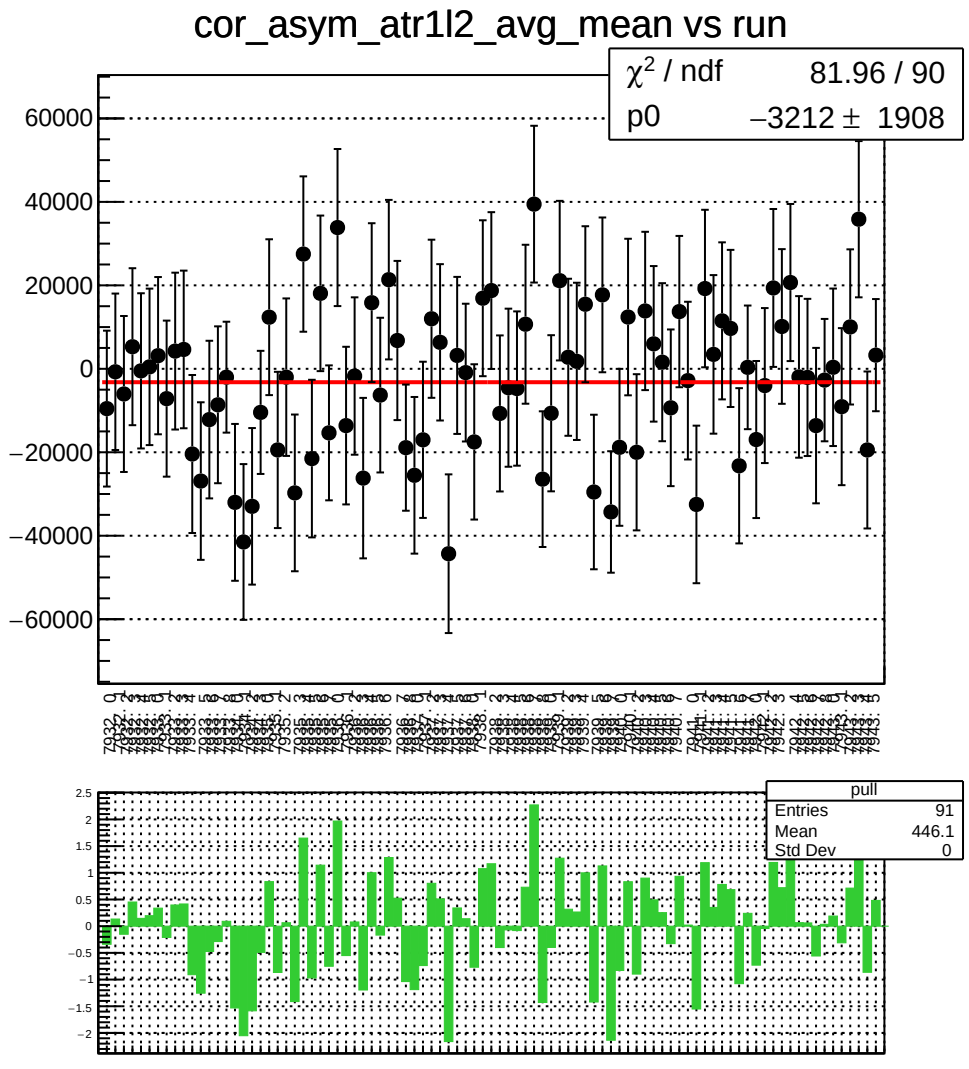

pull1D
Entries 91
Mean 0.01129
Std Dev 0.949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

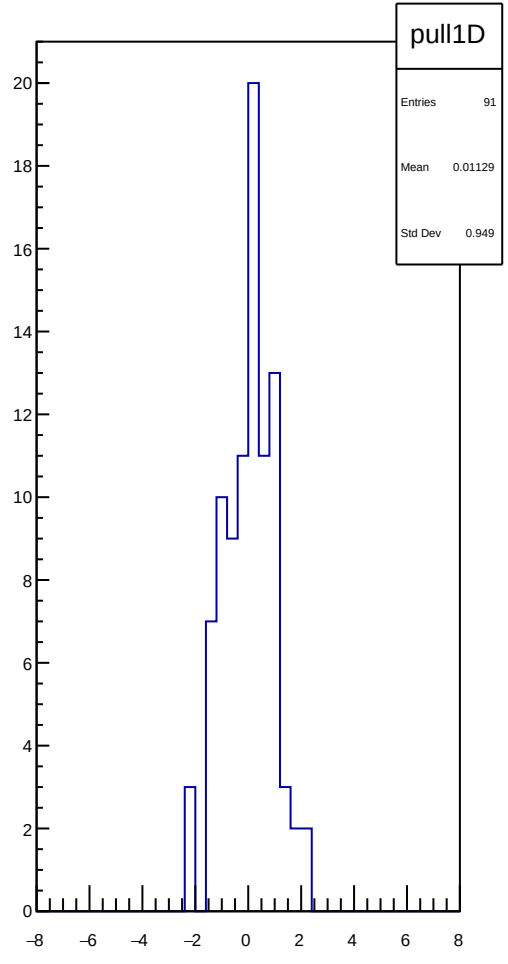

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 108.1 / 90
p0 1783 ± 1.349
1860
1840
1820
1800
1780
1760
1740

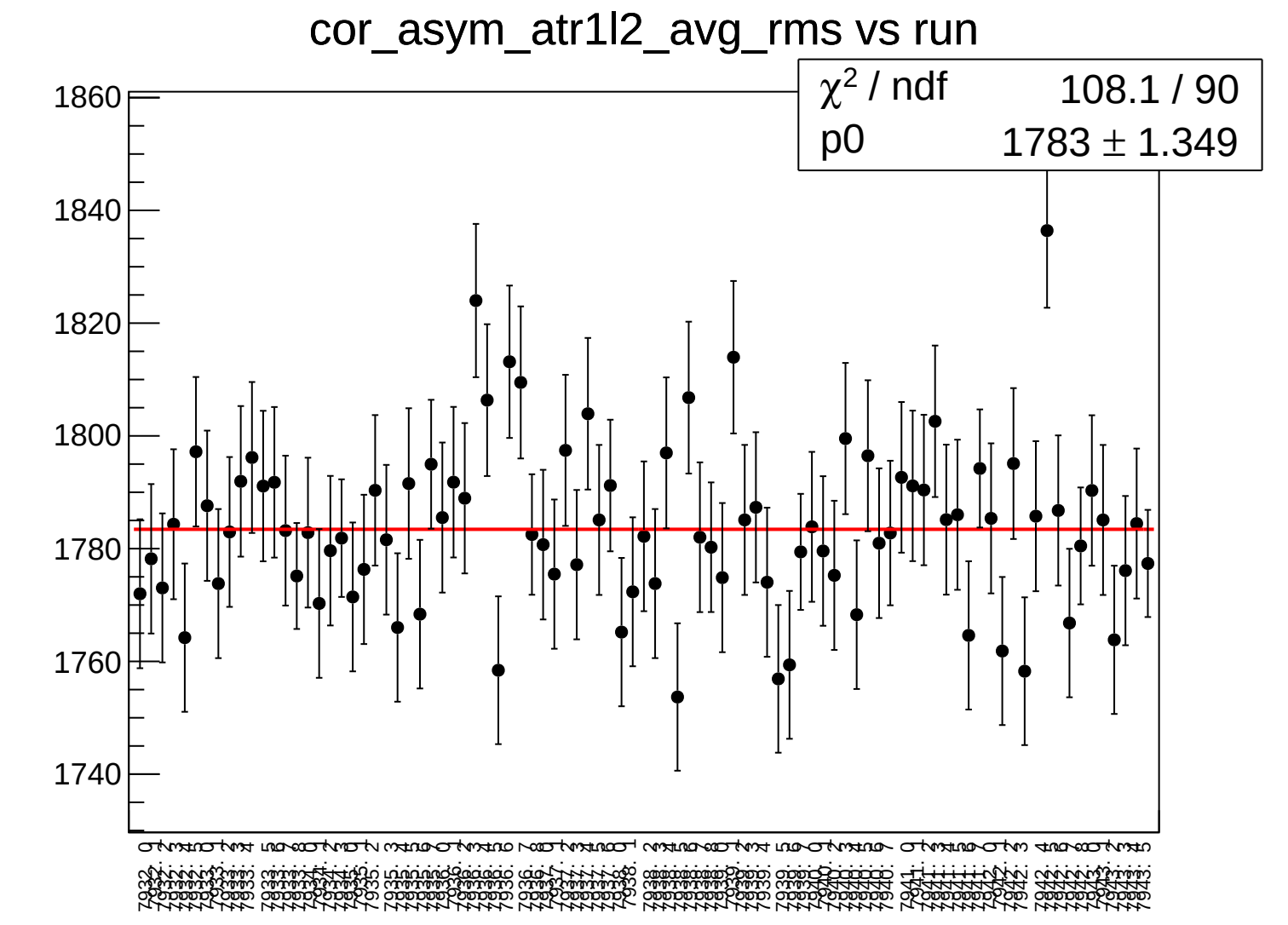

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 118 / 90
p0 −2952 ± 6042
200
100
0
−100
−200
pull
Entries 91
Mean −723.5
Std Dev 0
3
2
1
0
−1
−2

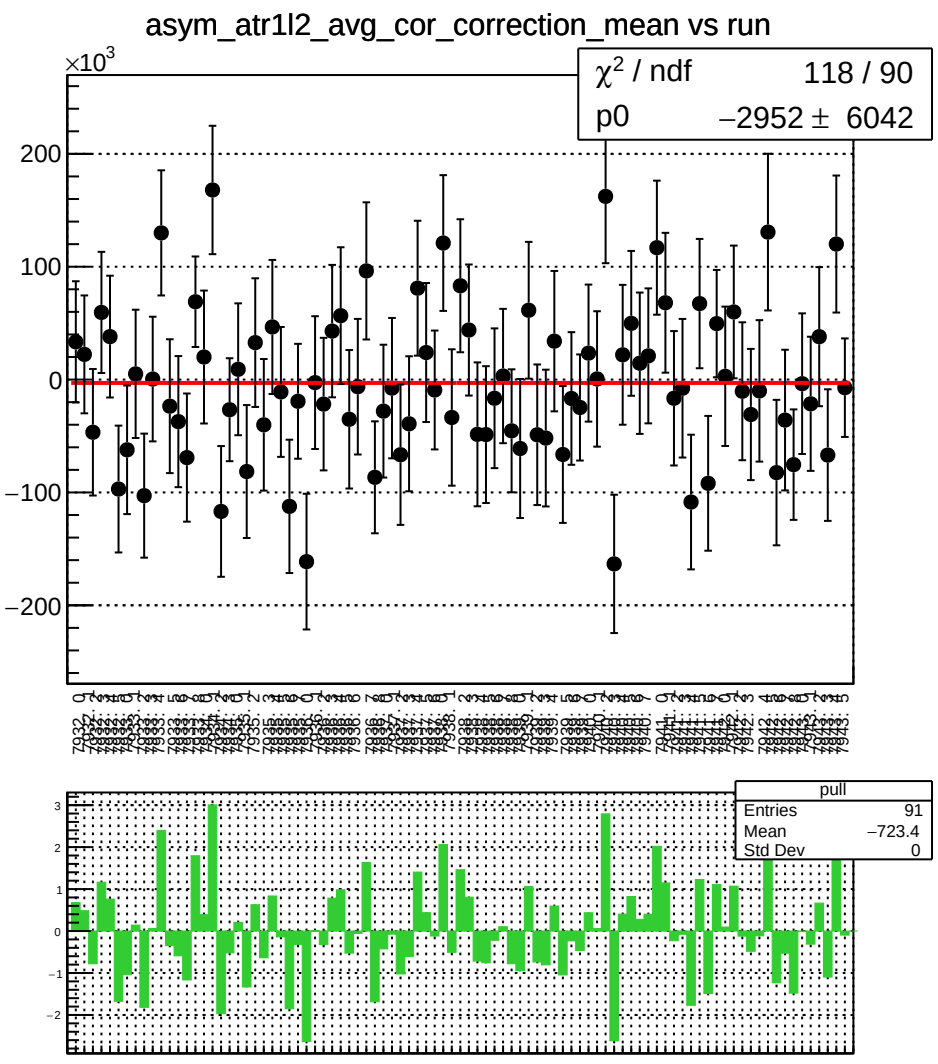

pull1D
Entries 91
Mean −0.001775
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

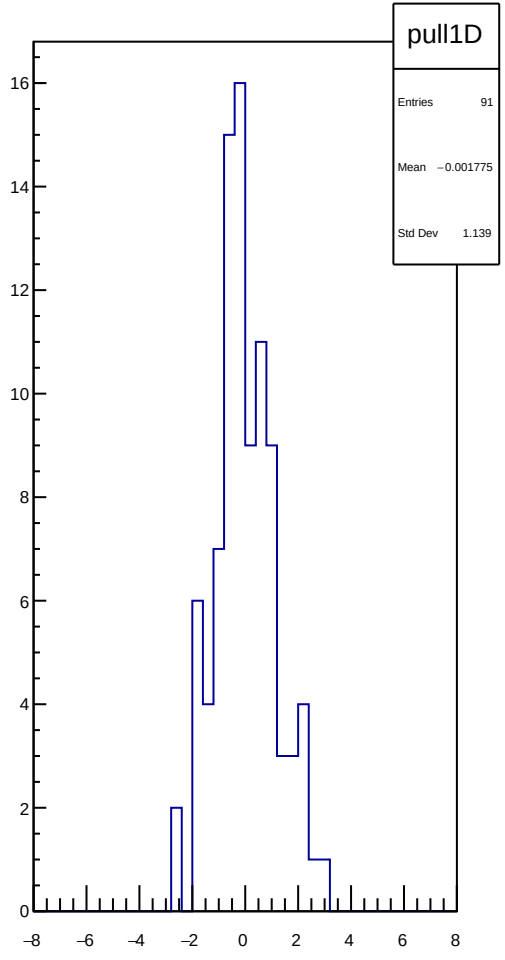

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3342 / 90
p0 5643 ± 4.272
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

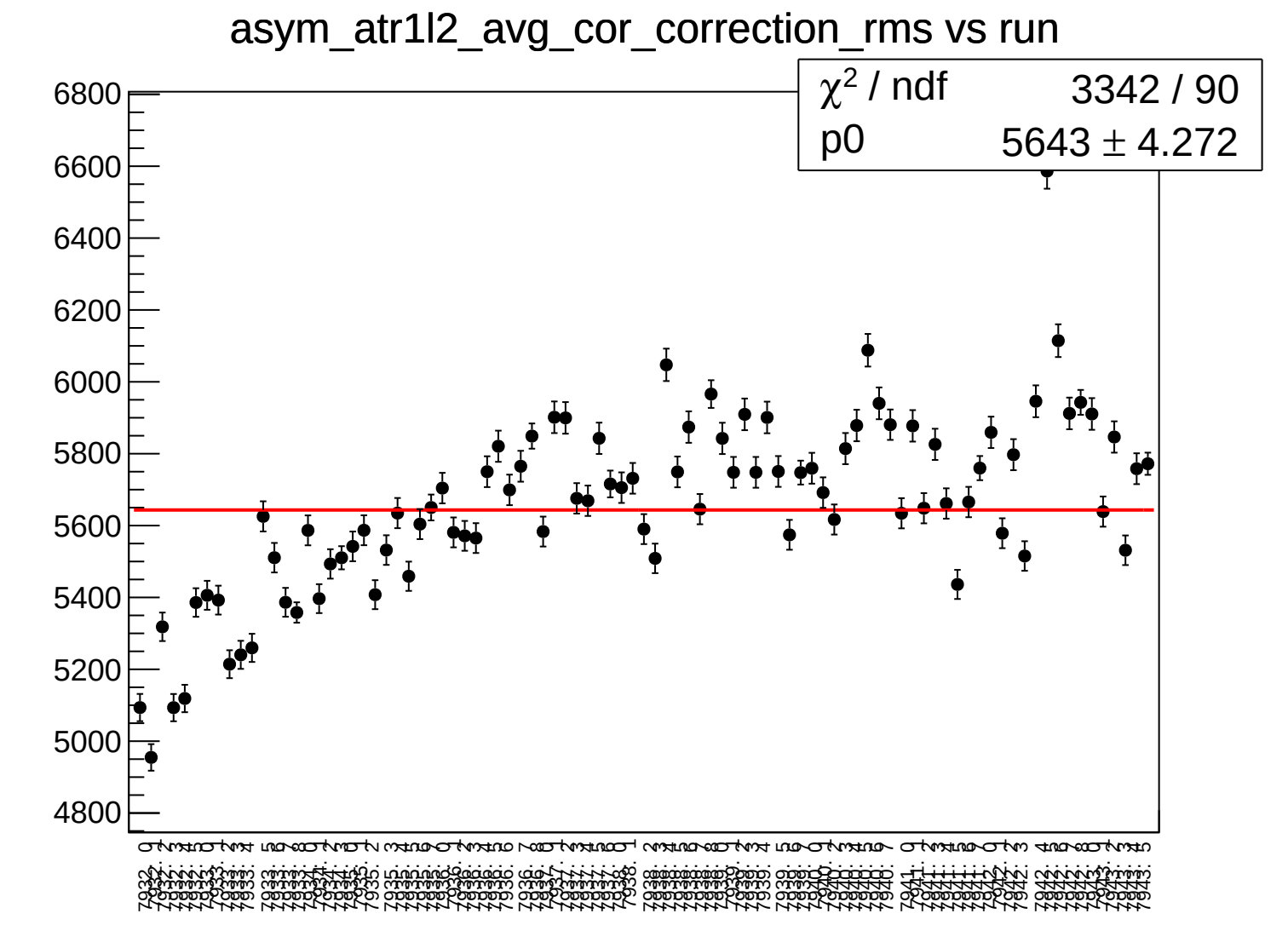

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 81.96 / 90
p0 −3212 ± 1908
pull
Entries 91
Mean 446.1
Std Dev 0

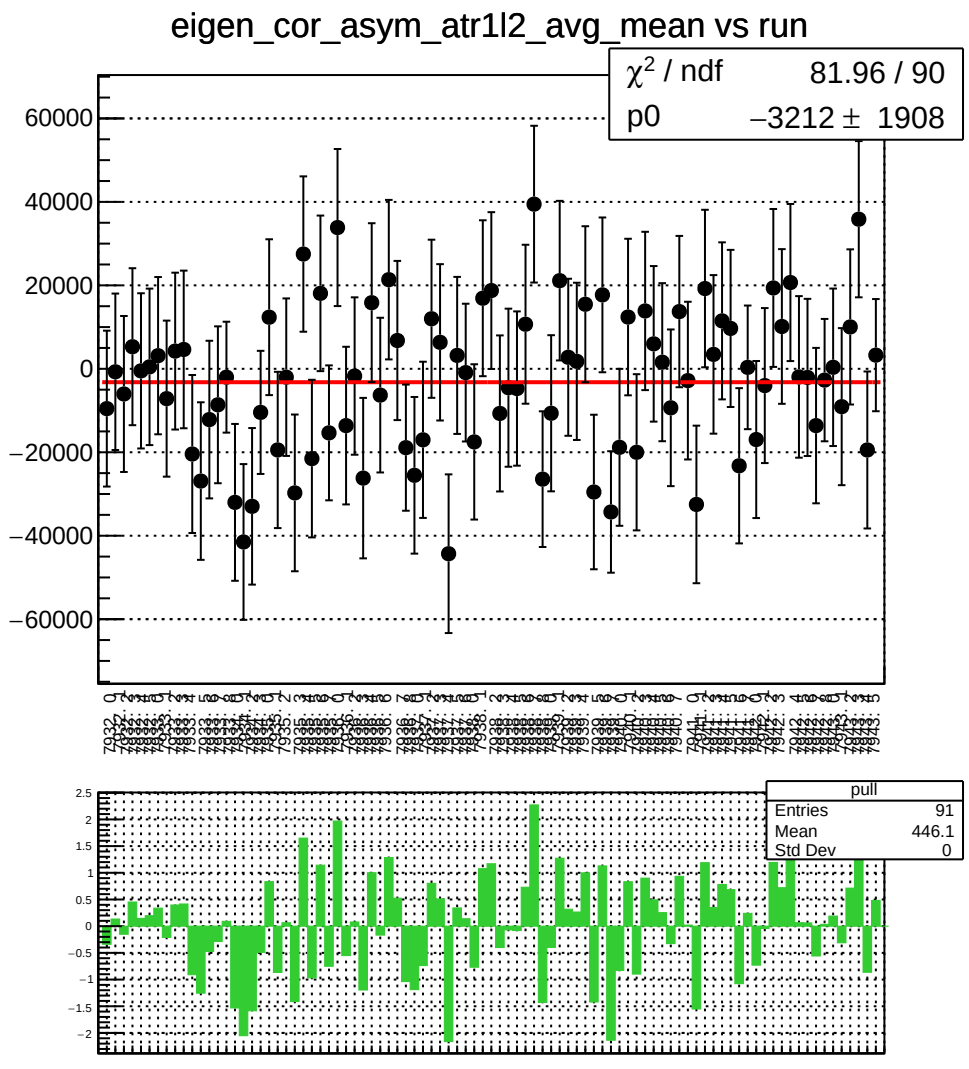

pull1D
Entries 91
Mean 0.01129
Std Dev 0.949

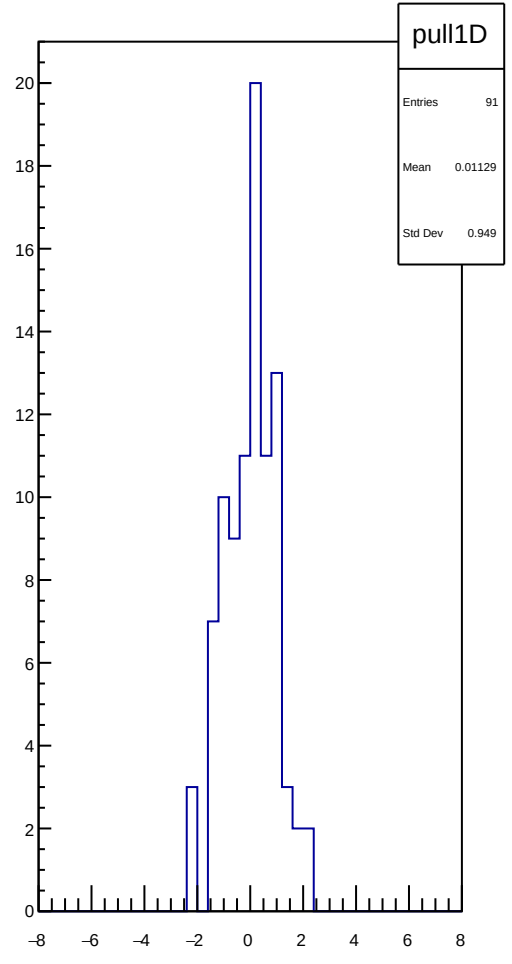

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 108.1 / 90
p0 1783 ± 1.349
1860
1840
1820
1800
1780
1760
1740

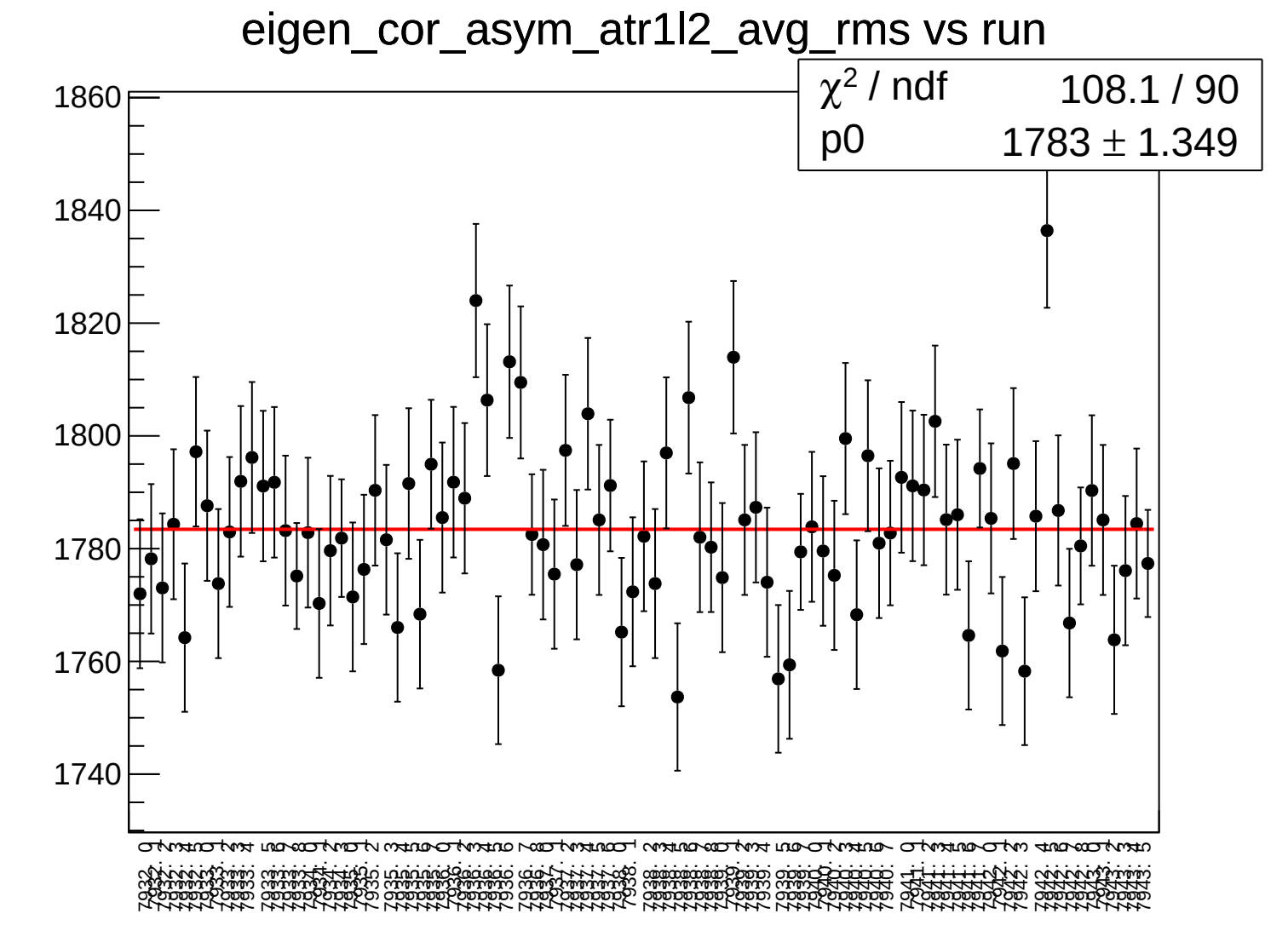

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 118 / 90
p0 −2952 ± 6042
200
100
0
−100
−200
pull
Entries 91
Mean −723.4
Std Dev 0
3
2
1
0
−1
−2

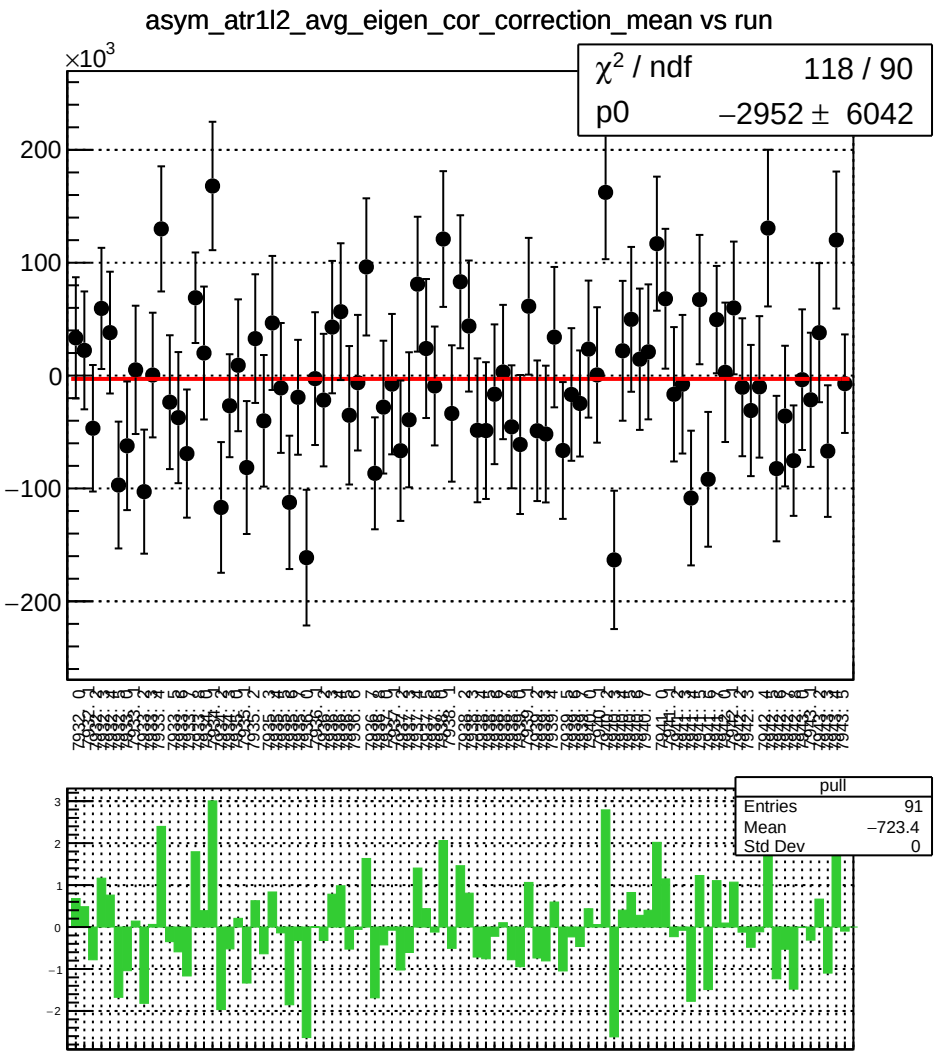

pull1D
Entries 91
Mean −0.001775
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

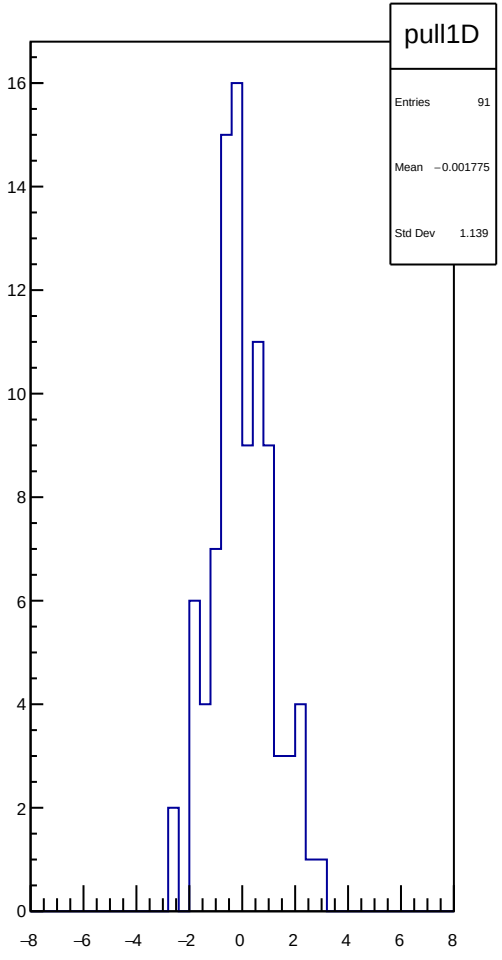

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3342 / 90
p0 5643 ± 4.272
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

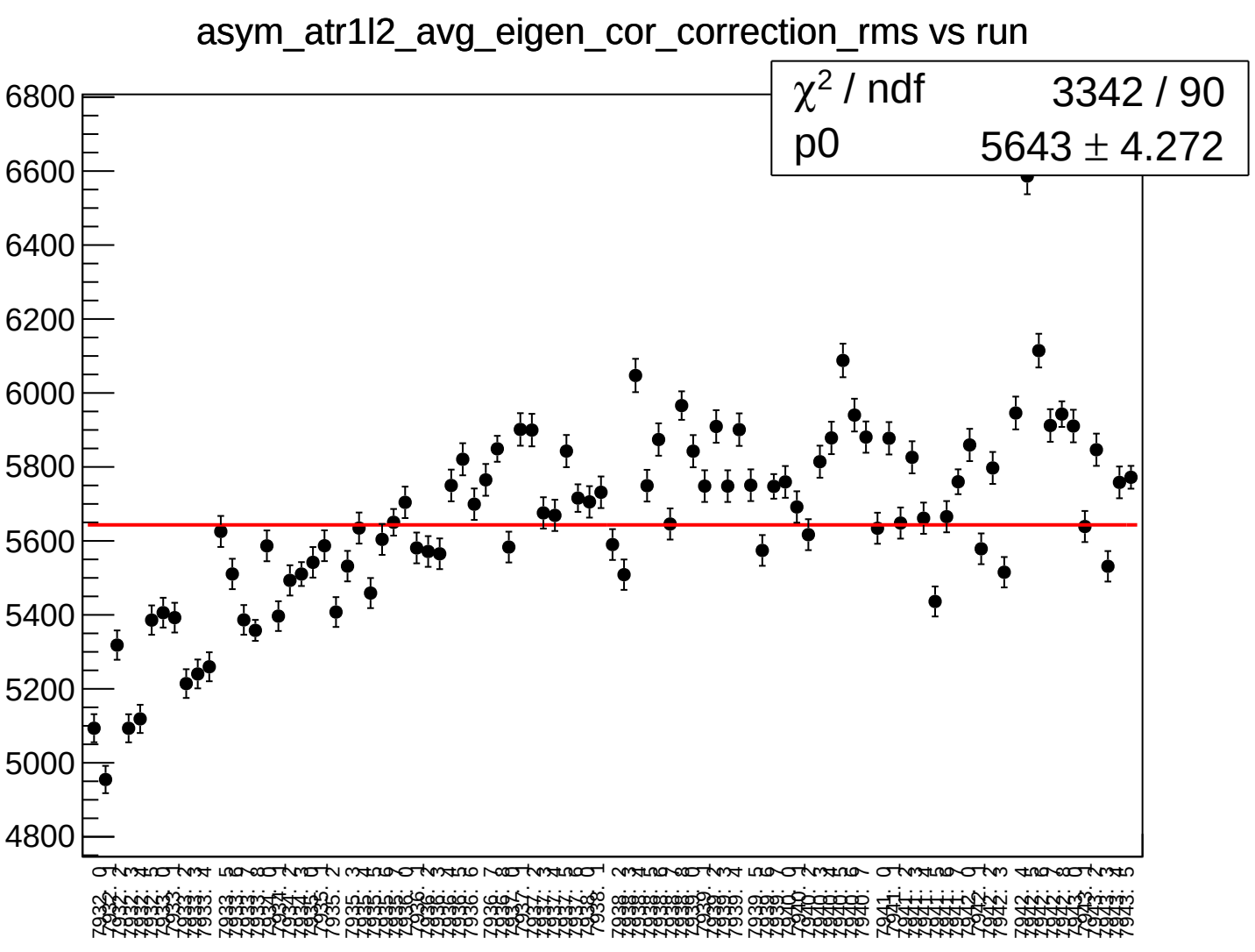

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 81.96 / 90
p0 −3212 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 446.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

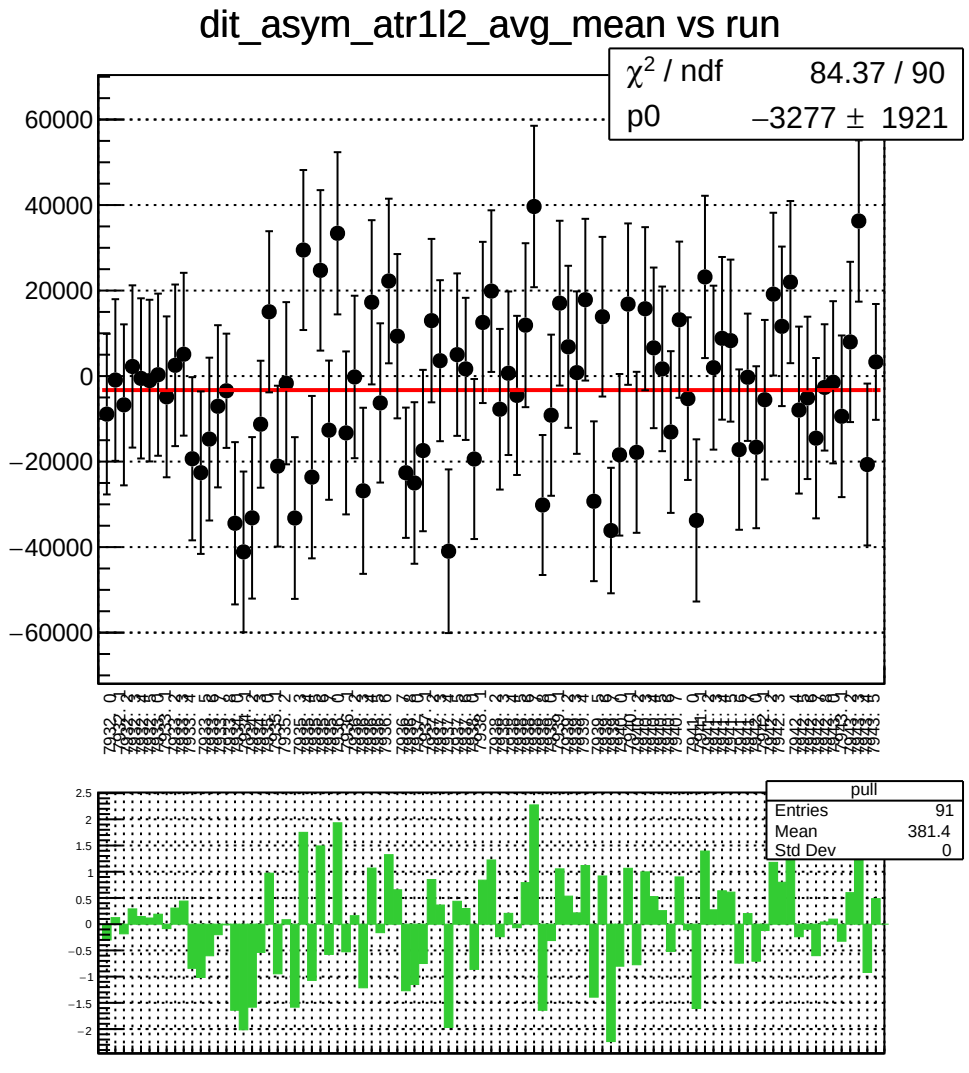

pull1D
Entries 91
Mean 0.01129
Std Dev 0.949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

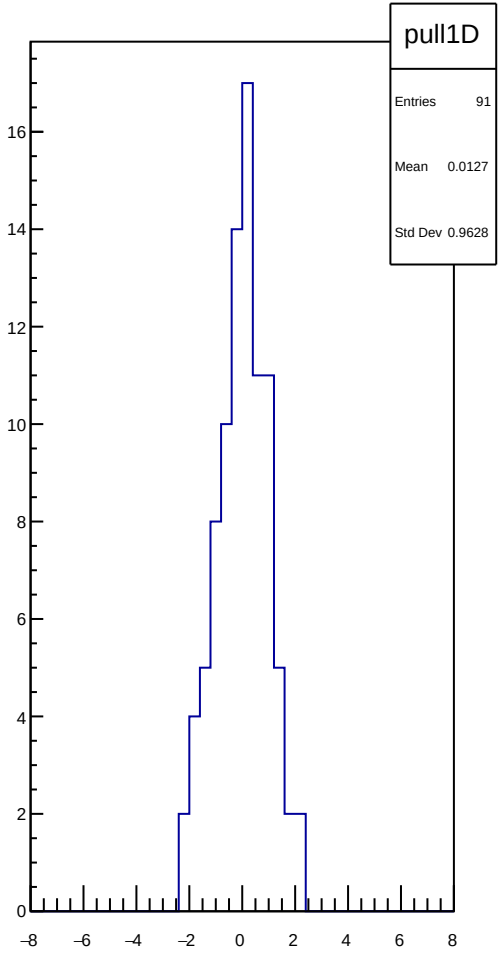

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 108.1 / 90
p0 1783 ± 1.349
1860
1840
1820
1800
1780
1760
1740

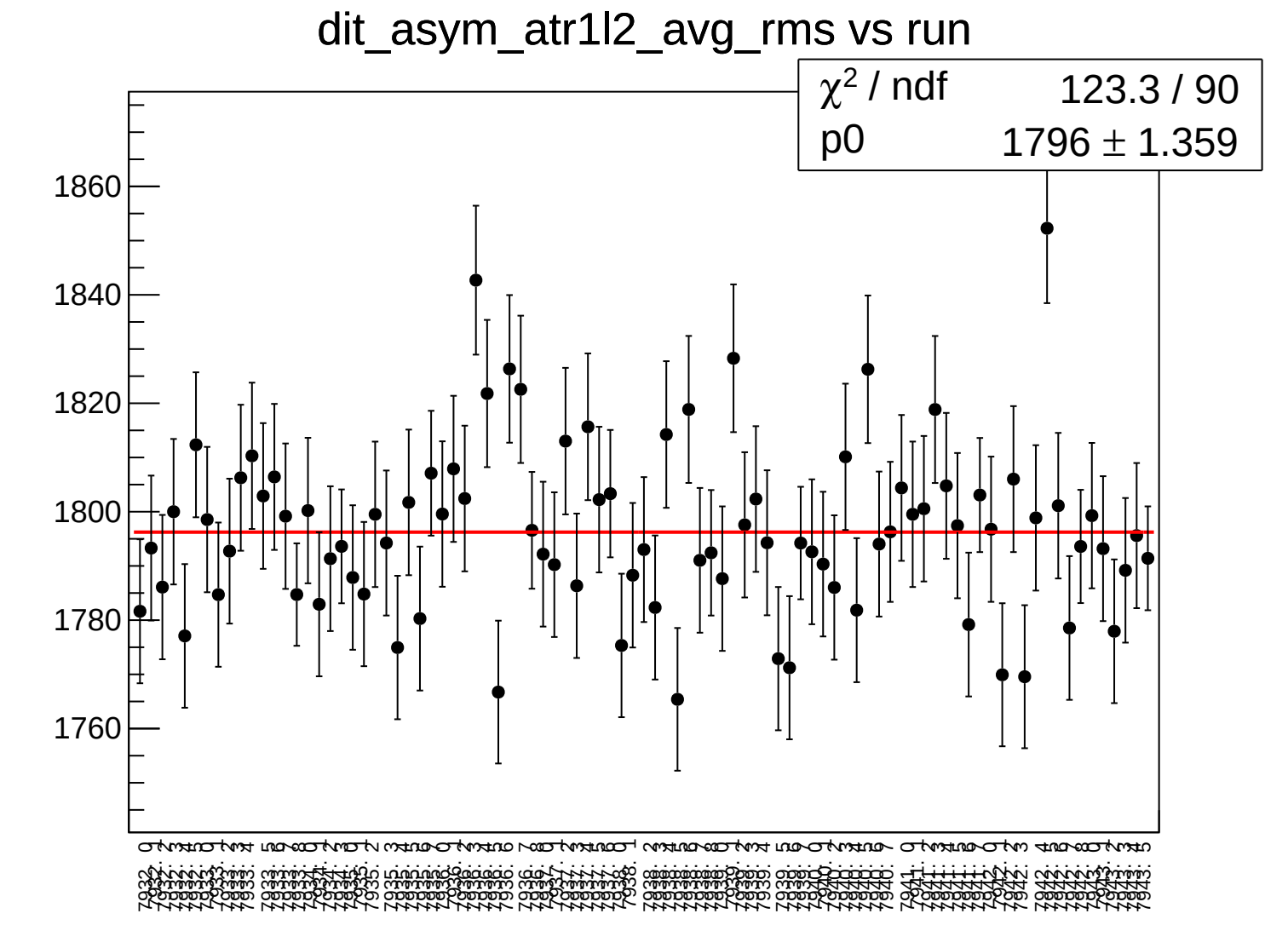

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 118 / 90
p0 −2952 ± 6042
200
100
0
−100
−200
pull
Entries 91
Mean −723.4
Std Dev 0
3
2
1
0
−1
−2

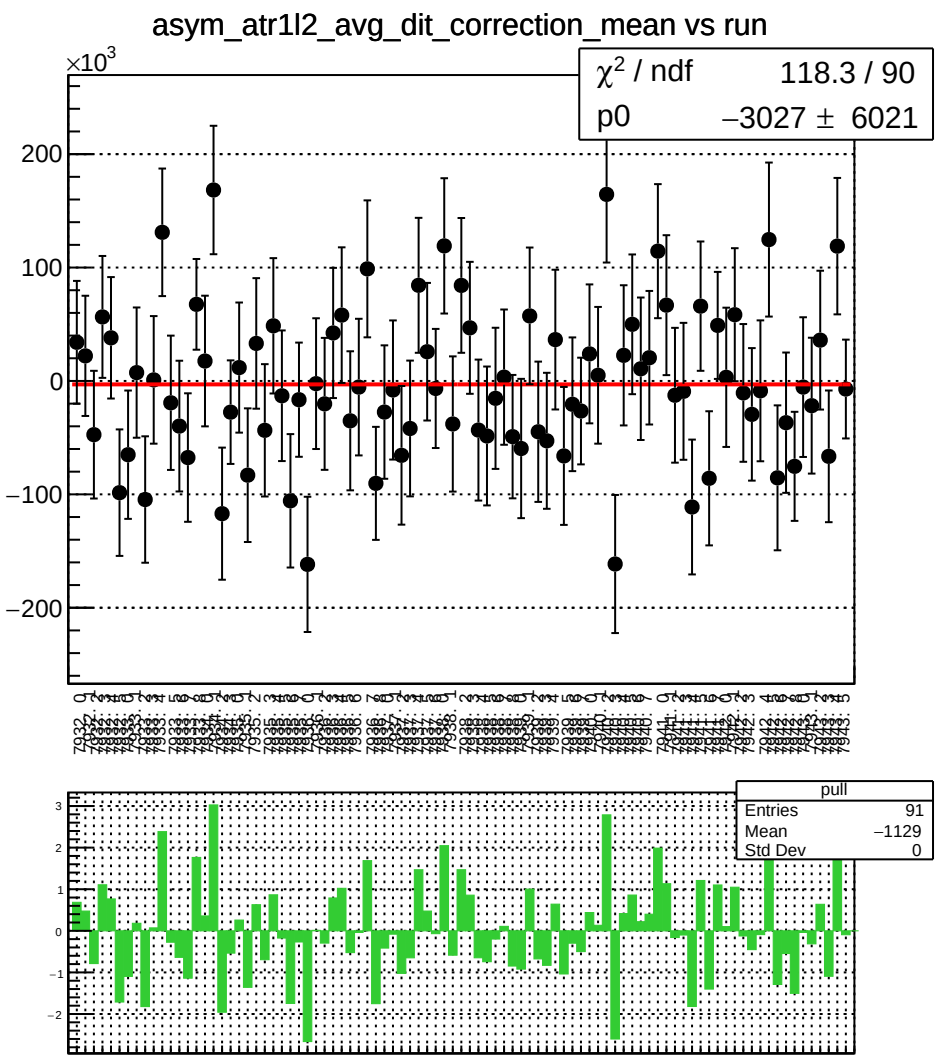

pull1D
Entries 91
Mean −0.001775
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

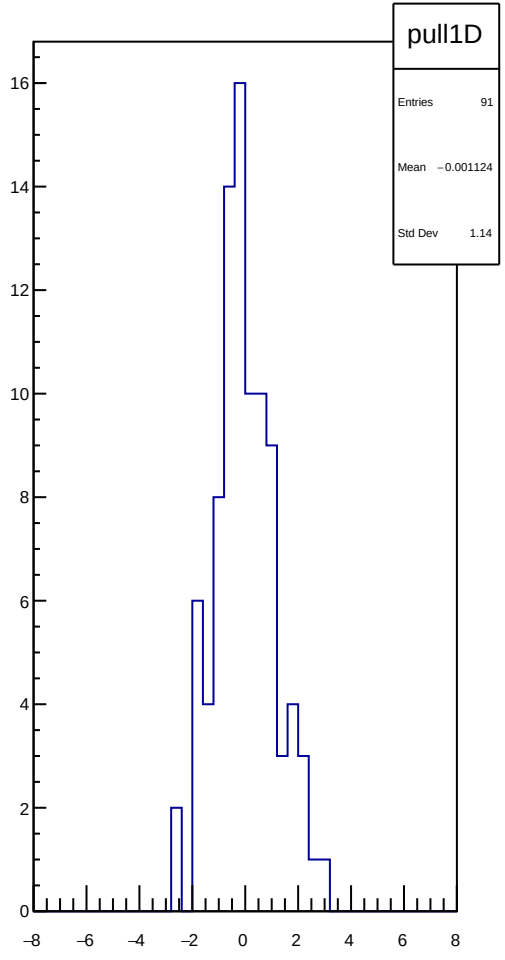

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3342 / 90
p0 5643 ± 4.272
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

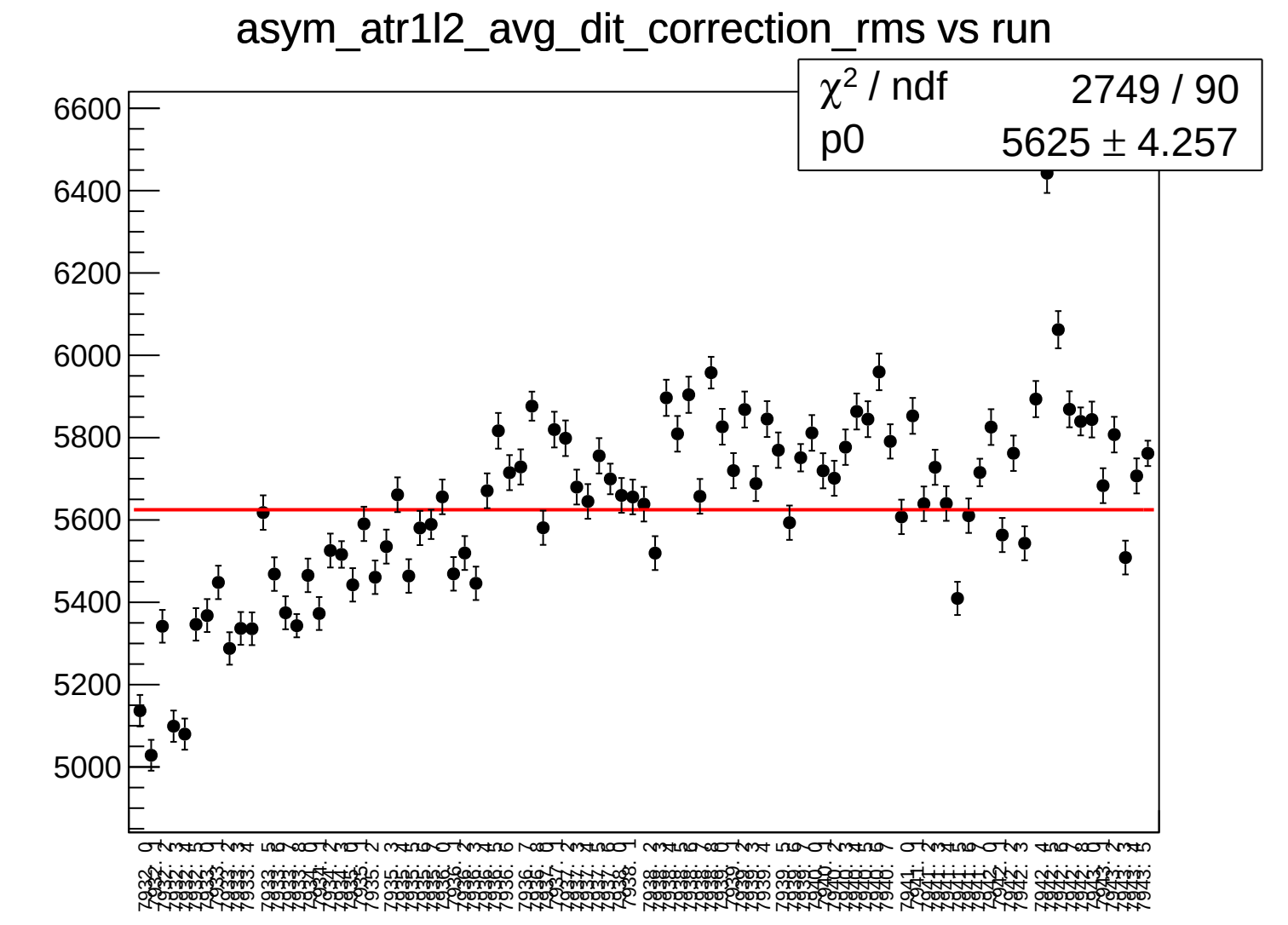

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.37 / 90
p0 −3277 ± 1921
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 381.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

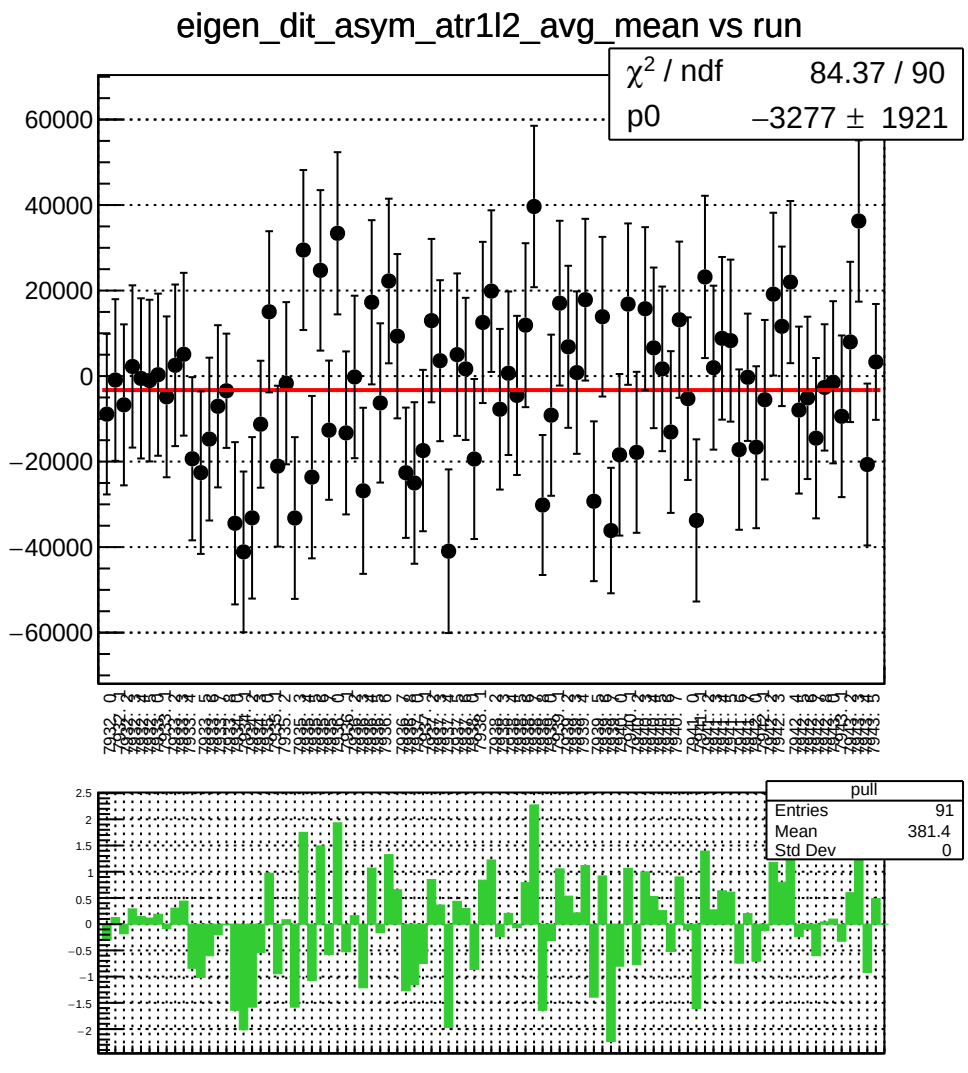

pull1D
Entries 91
Mean 0.0127
Std Dev 0.9628
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

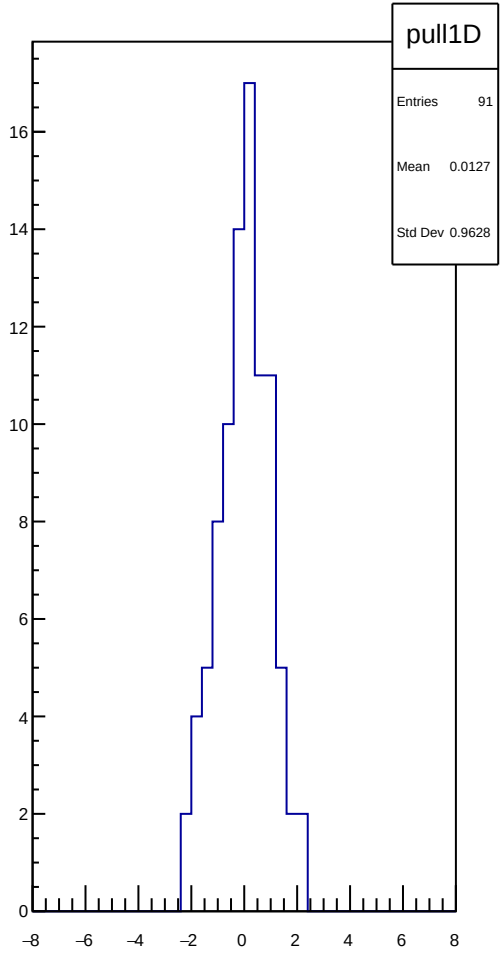

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 123.3 / 90
p0 1796 ± 1.359
1860
1840
1820
1800
1780
1760

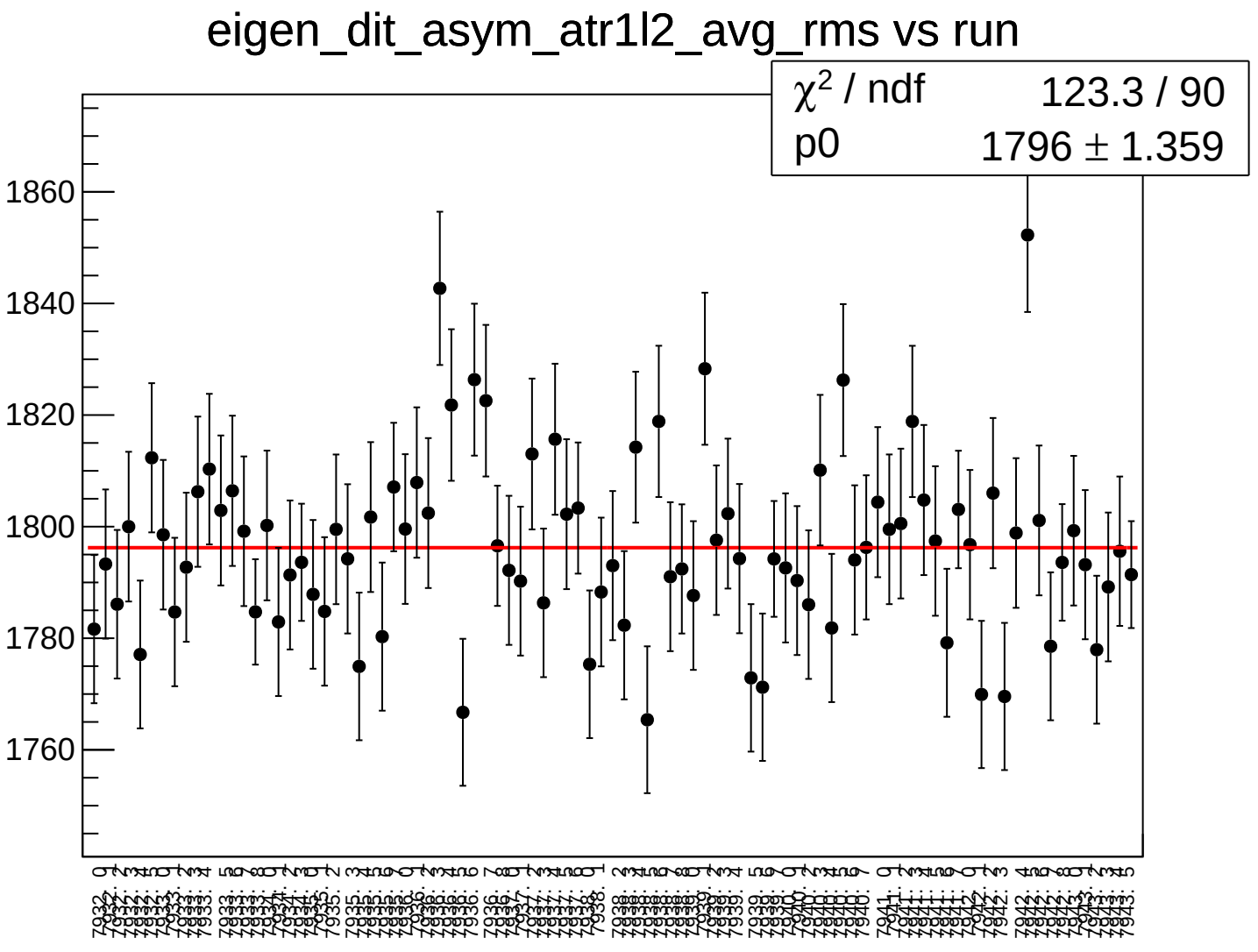

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 118.3 / 90
p0 −3027 ± 6021
×10³
200
100
0
−100
−200
pull
Entries 91
Mean −1129
Std Dev 0
3
2
1
0
−1
−2

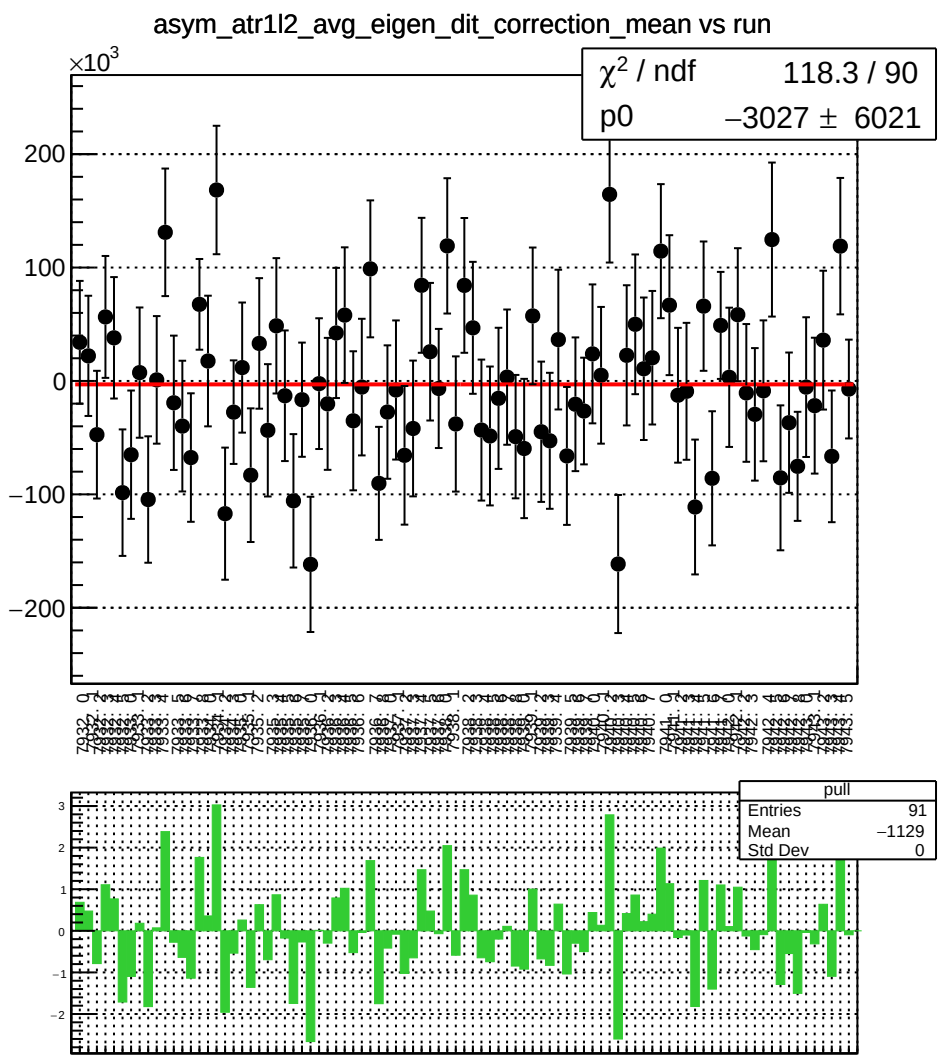

pull1D
Entries 91
Mean −0.001124
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

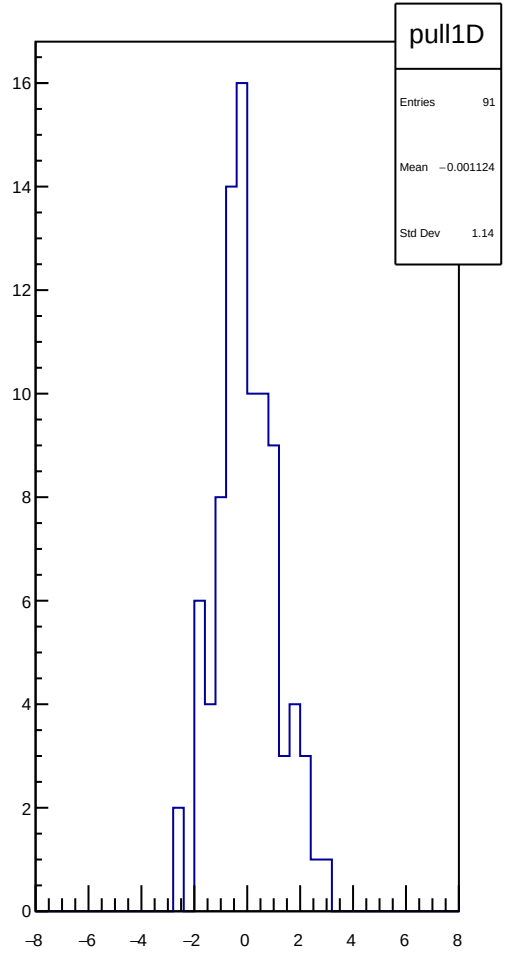

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2749 / 90
p0 5625 ± 4.257
6600
6400
6200
6000
5800
5600
5400
5200
5000

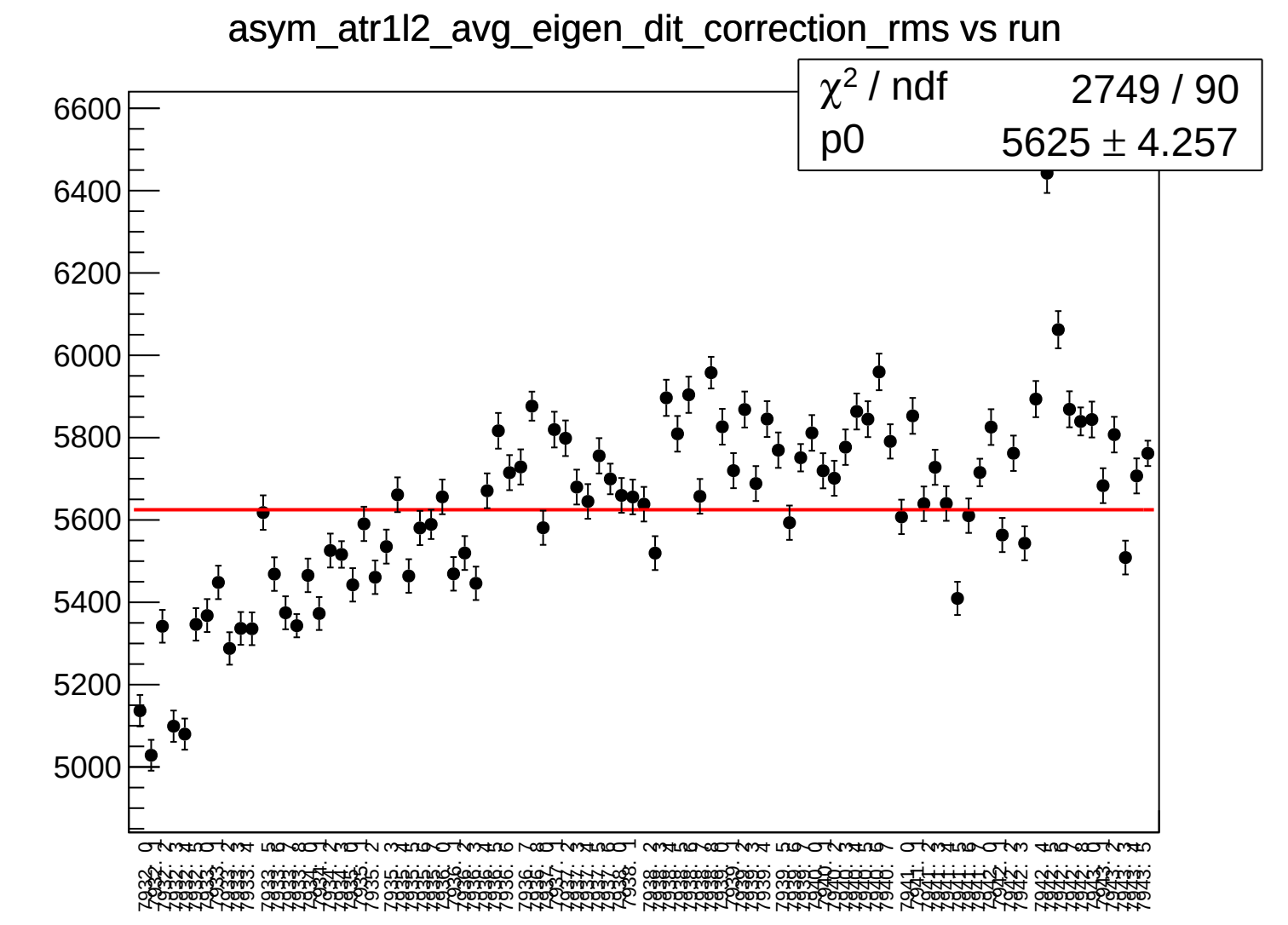

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.37 / 90
p0 −3277 ± 1921
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 381.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

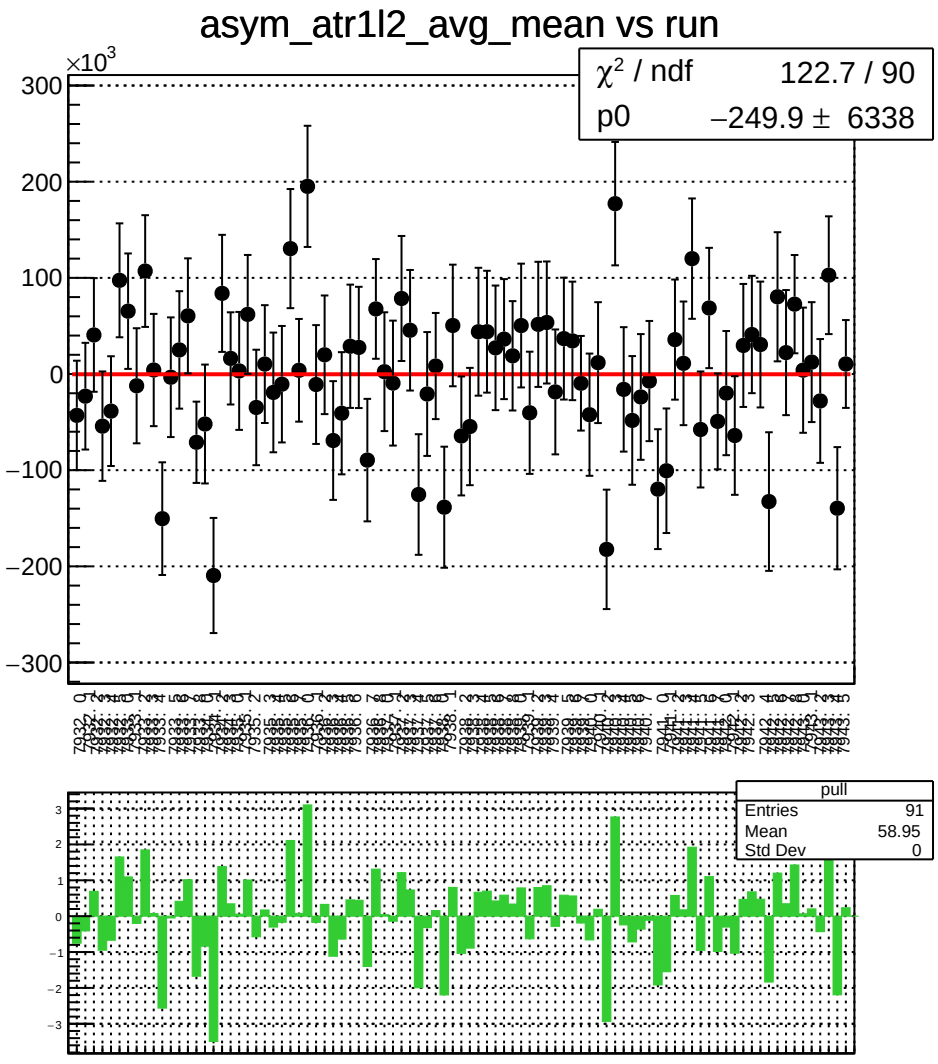

pull1D
Entries 91
Mean 0.0127
Std Dev 0.9628
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

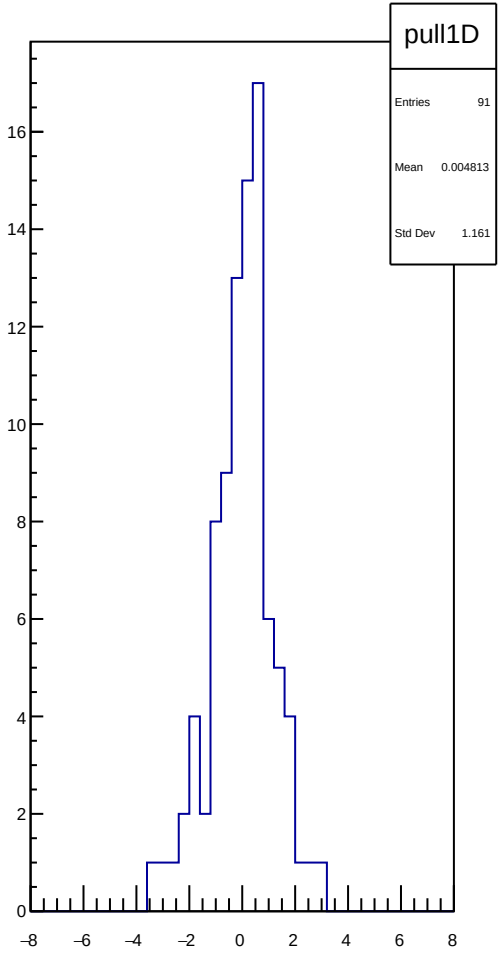

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 123.3 / 90
p0 1796 ± 1.359
1860
1840
1820
1800
1780
1760

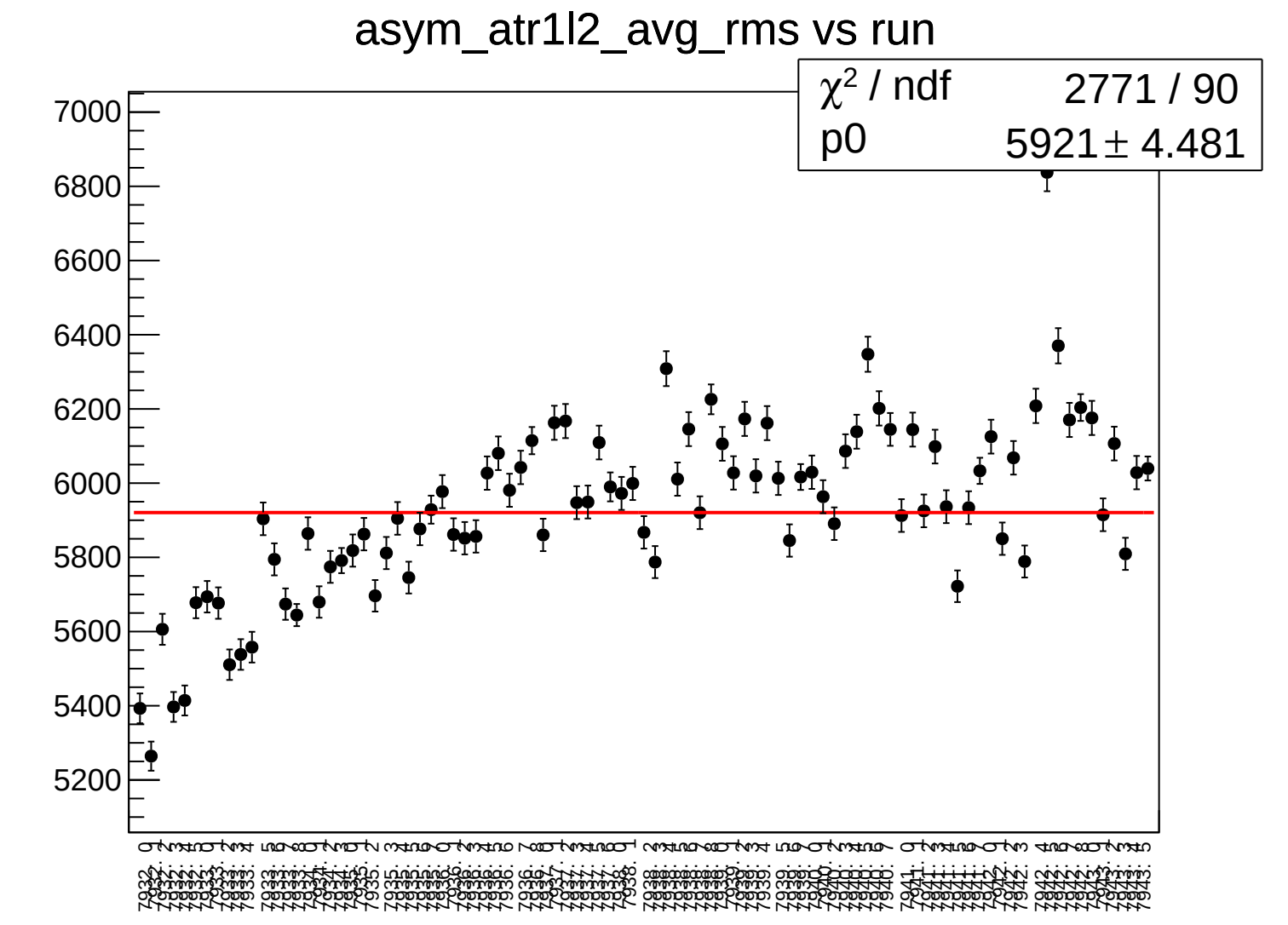

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 118.3 / 90
p0 −3027 ± 6021
200
100
0
−100
−200
pull
Entries 91
Mean −1129
Std Dev 0
3
2
1
0
−1
−2

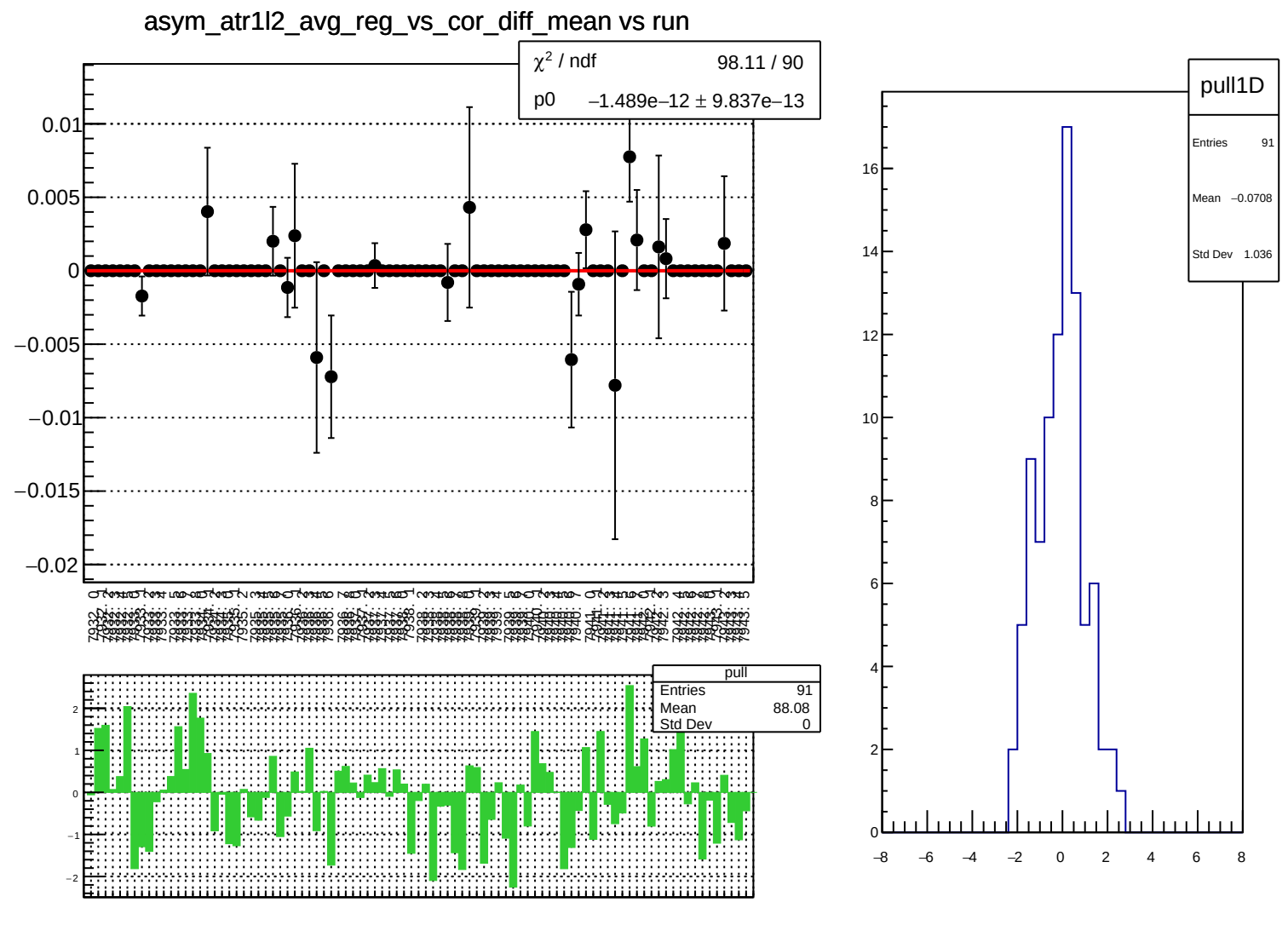

pull1D
Entries 91
Mean −0.001124
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

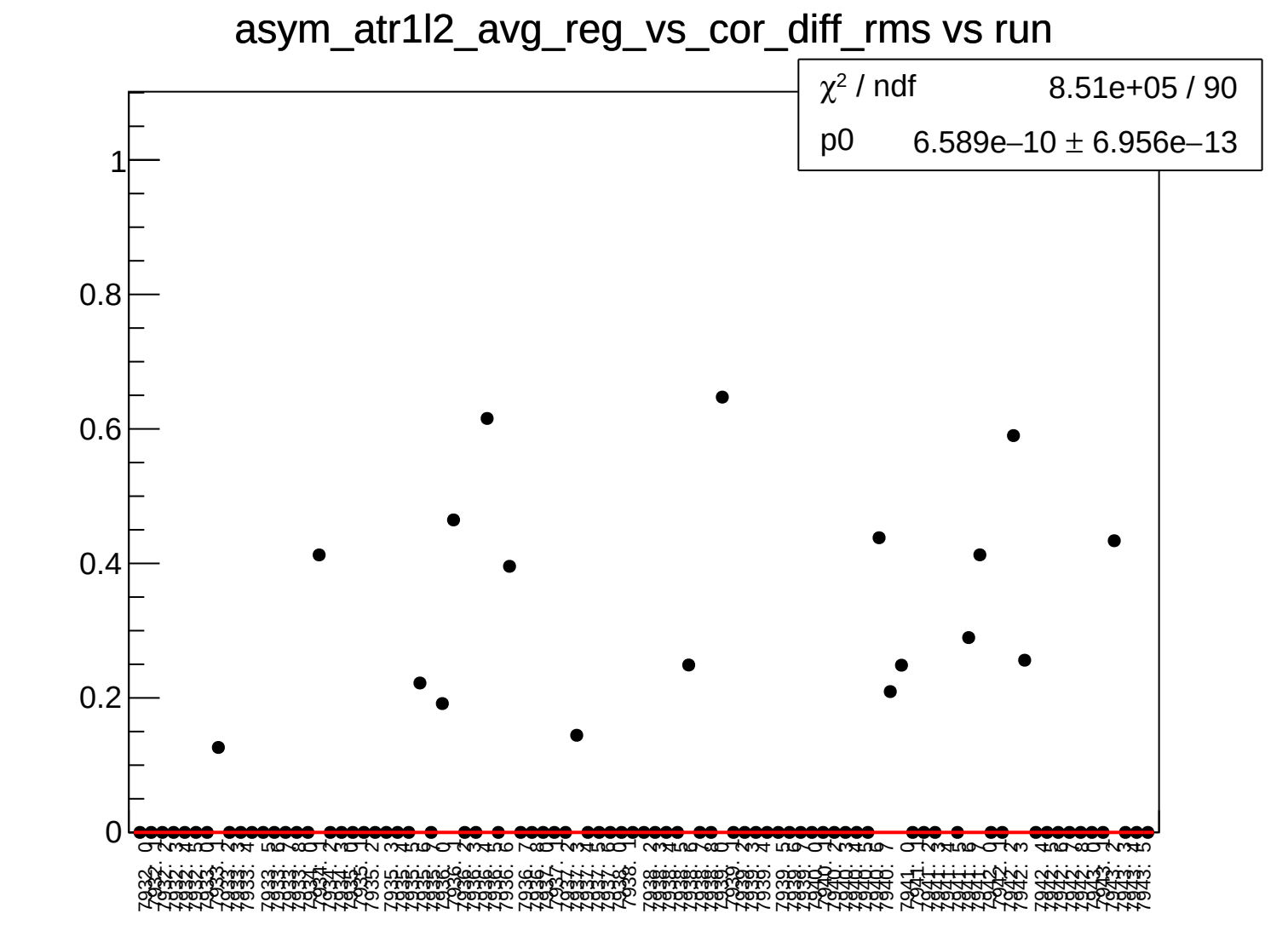

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2749 / 90
p0 5625 ± 4.257
6600
6400
6200
6000
5800
5600
5400
5200
5000

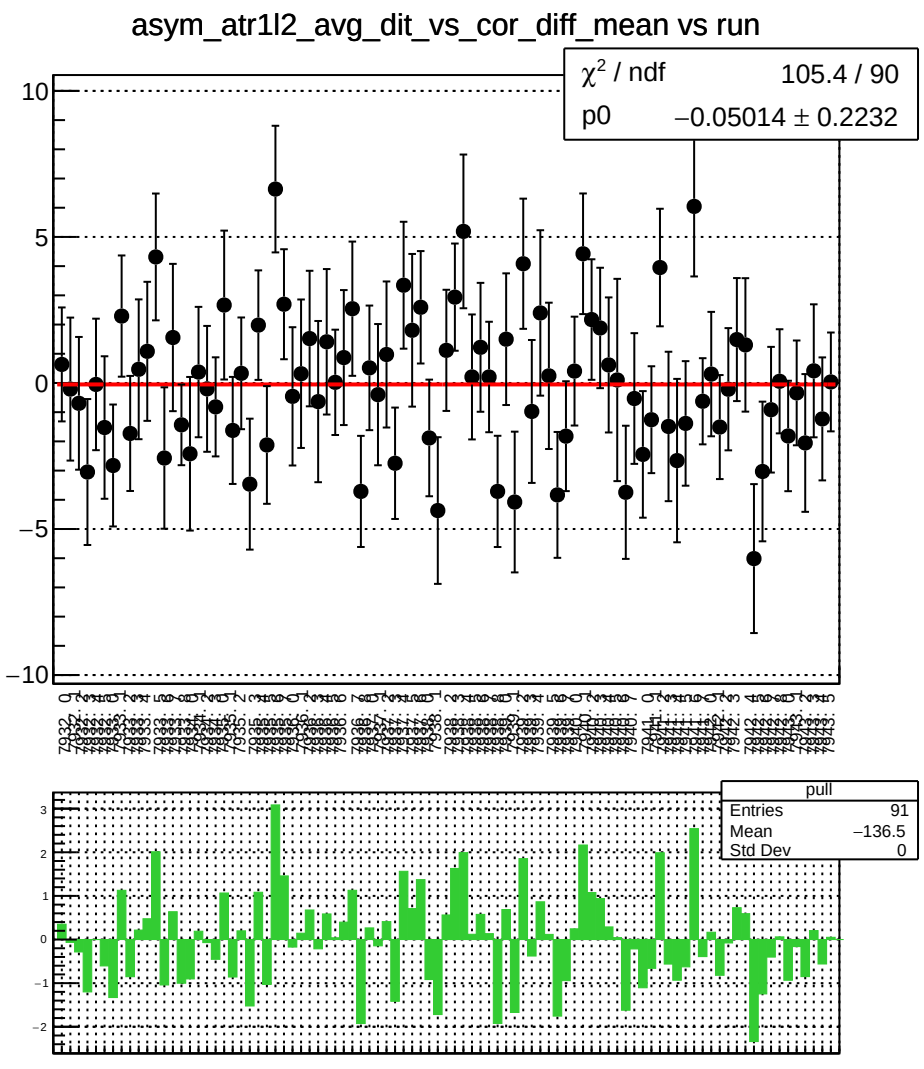

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 122.7 / 90
p0 −249.9 ± 6338
pull
Entries 91
Mean 58.95
Std Dev 0

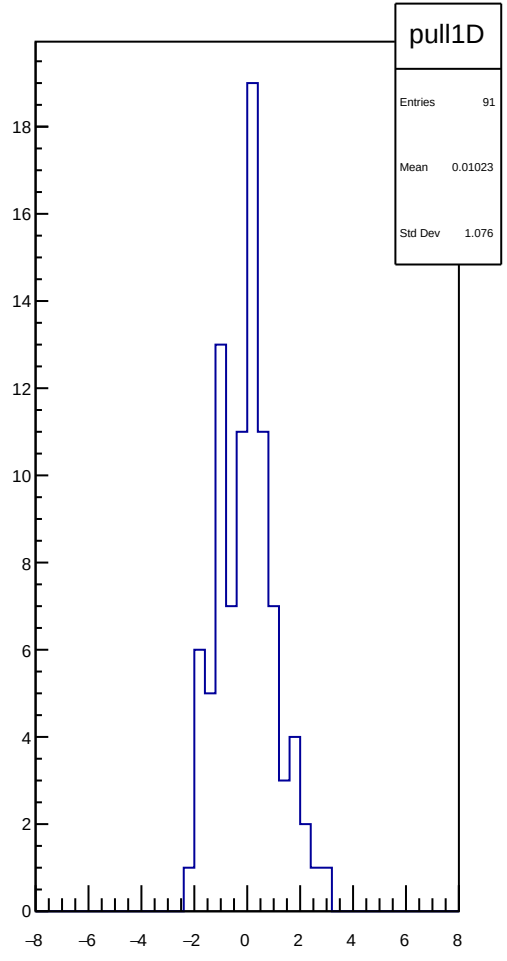

pull1D
Entries 91
Mean 0.004813
Std Dev 1.161

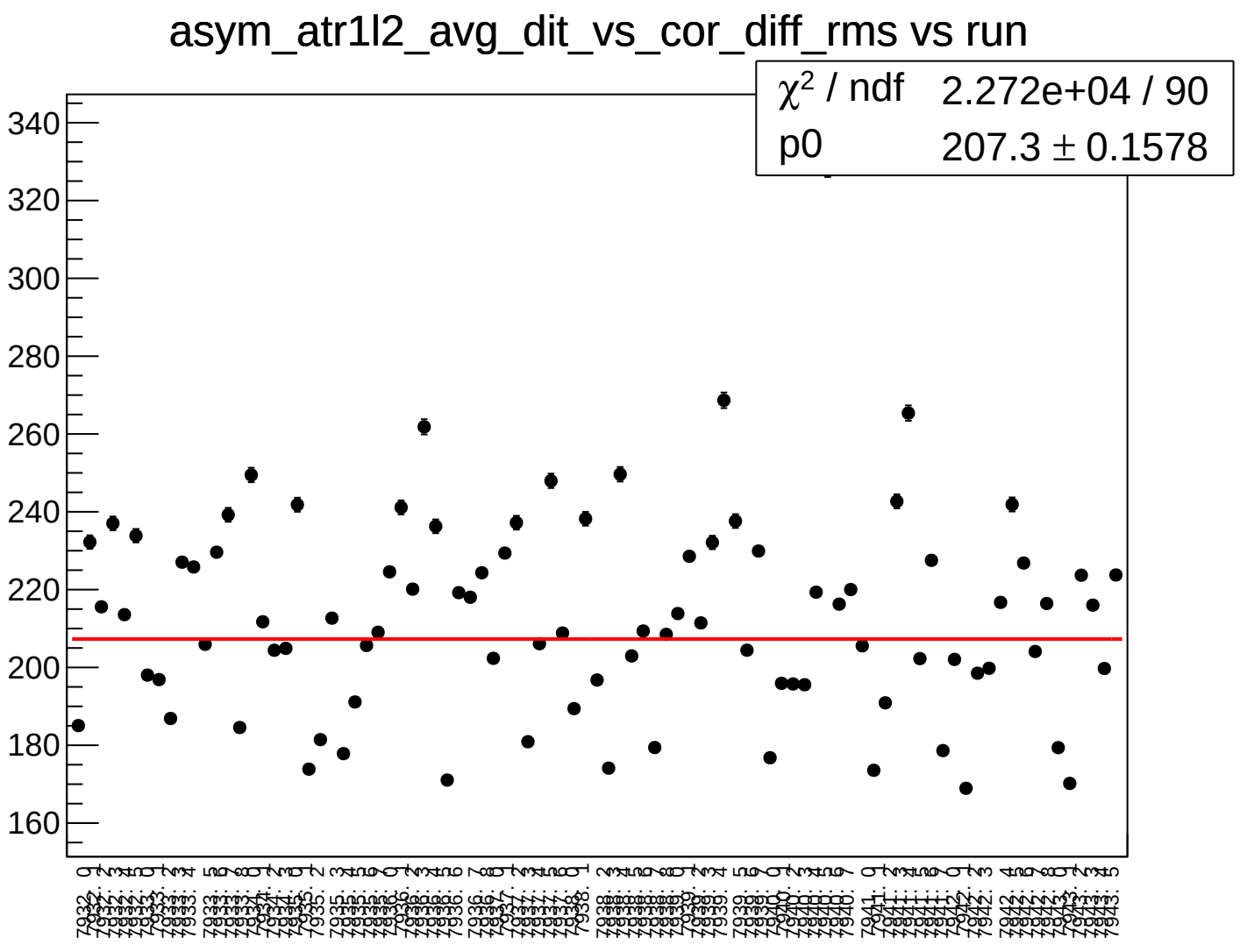

asym_atr1l2_avg_rms vs run
χ^2 / ndf 2771 / 90
p0 5921 ± 4.481
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

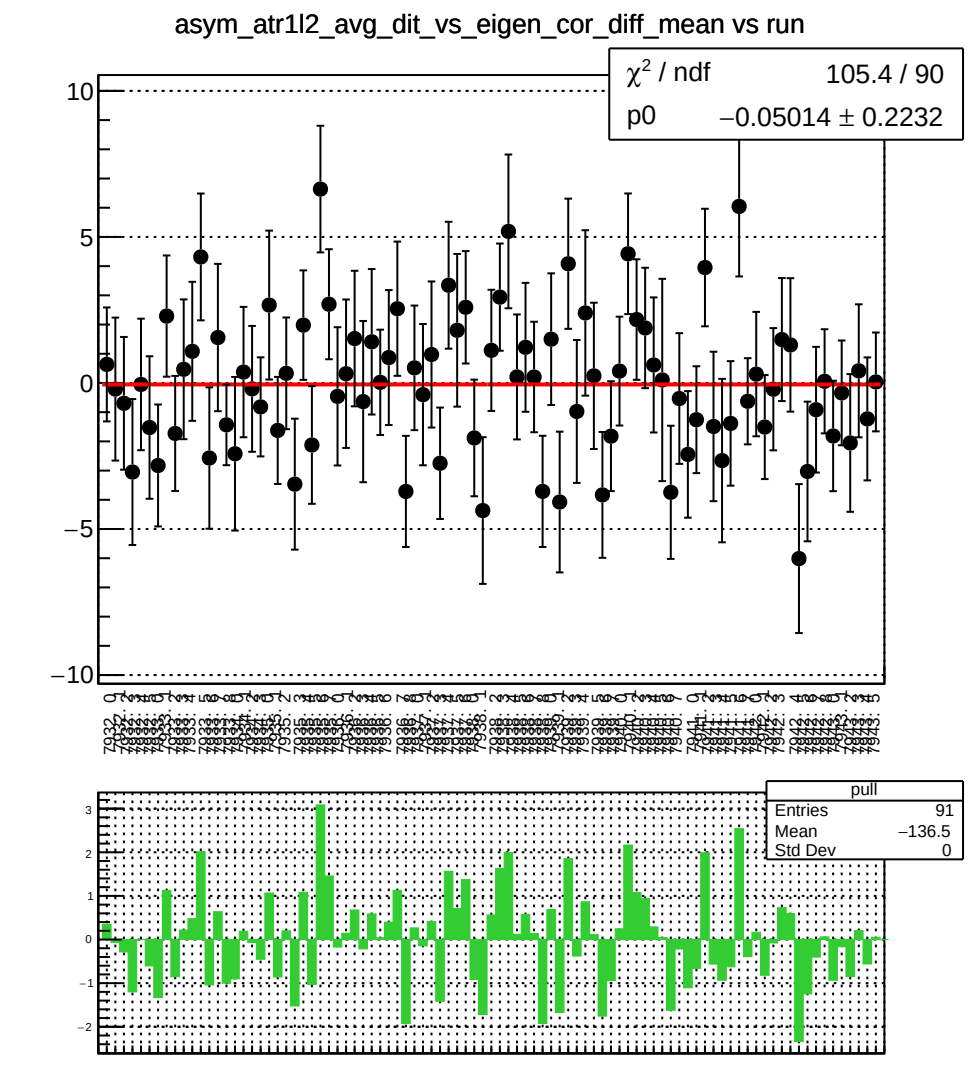

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.11 / 90
p0 −1.489e−12 ± 9.837e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 88.08
Std Dev 0
pull1D
Entries 91
Mean −0.0708
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

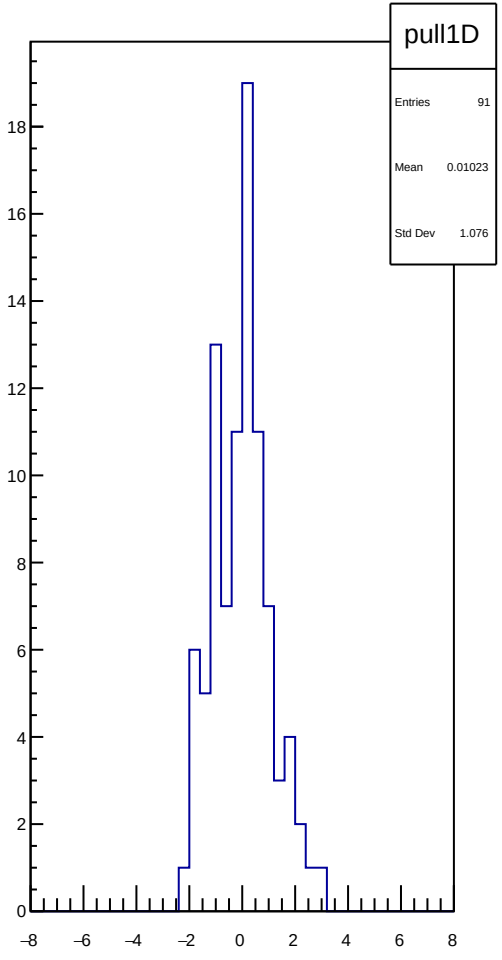

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.51e+05 / 90
p0 6.589e−10 ± 6.956e−13
1
0.8
0.6
0.4
0.2
0

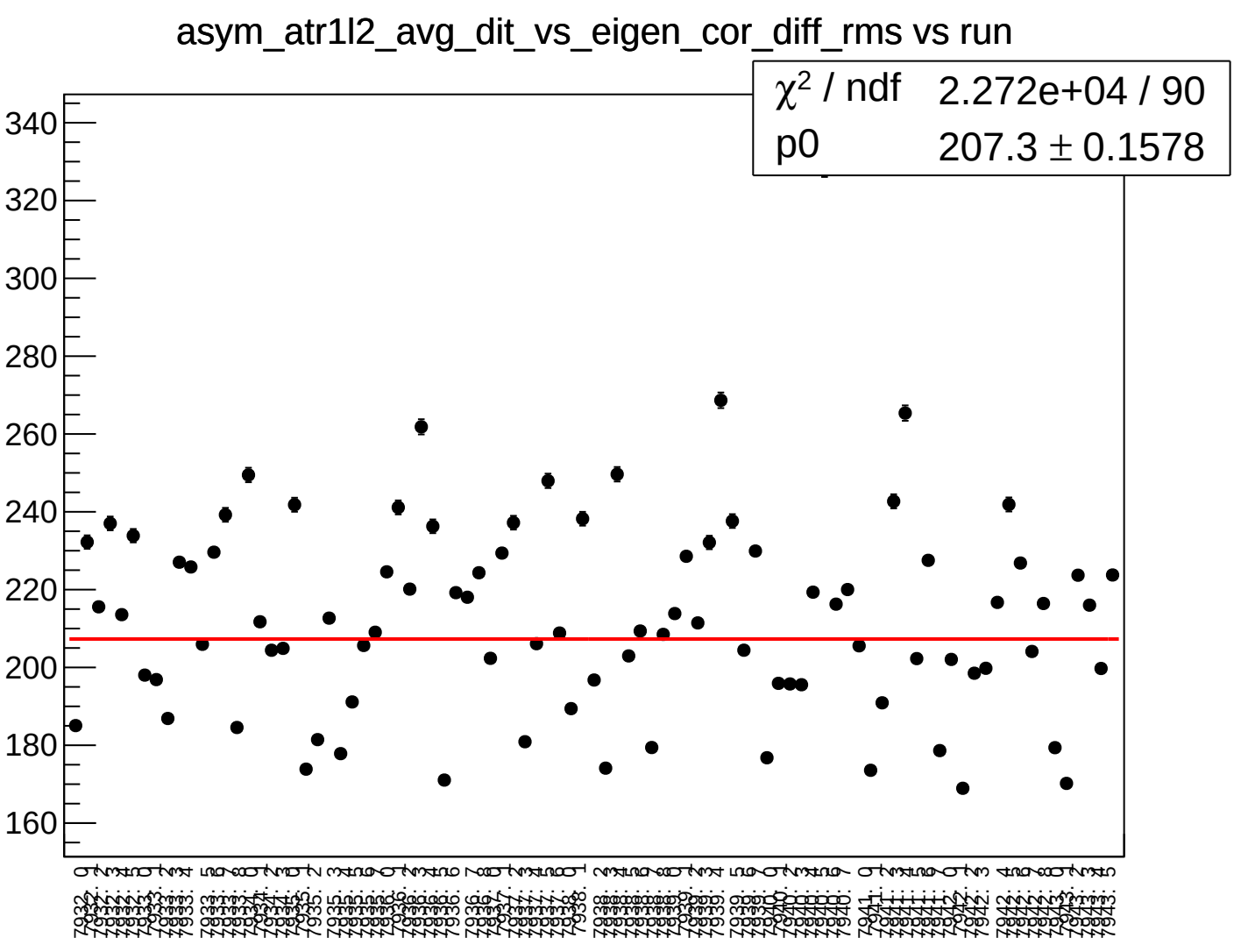

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 90
p0 −0.05014 ± 0.2232
pull
Entries 91
Mean −136.5
Std Dev 0

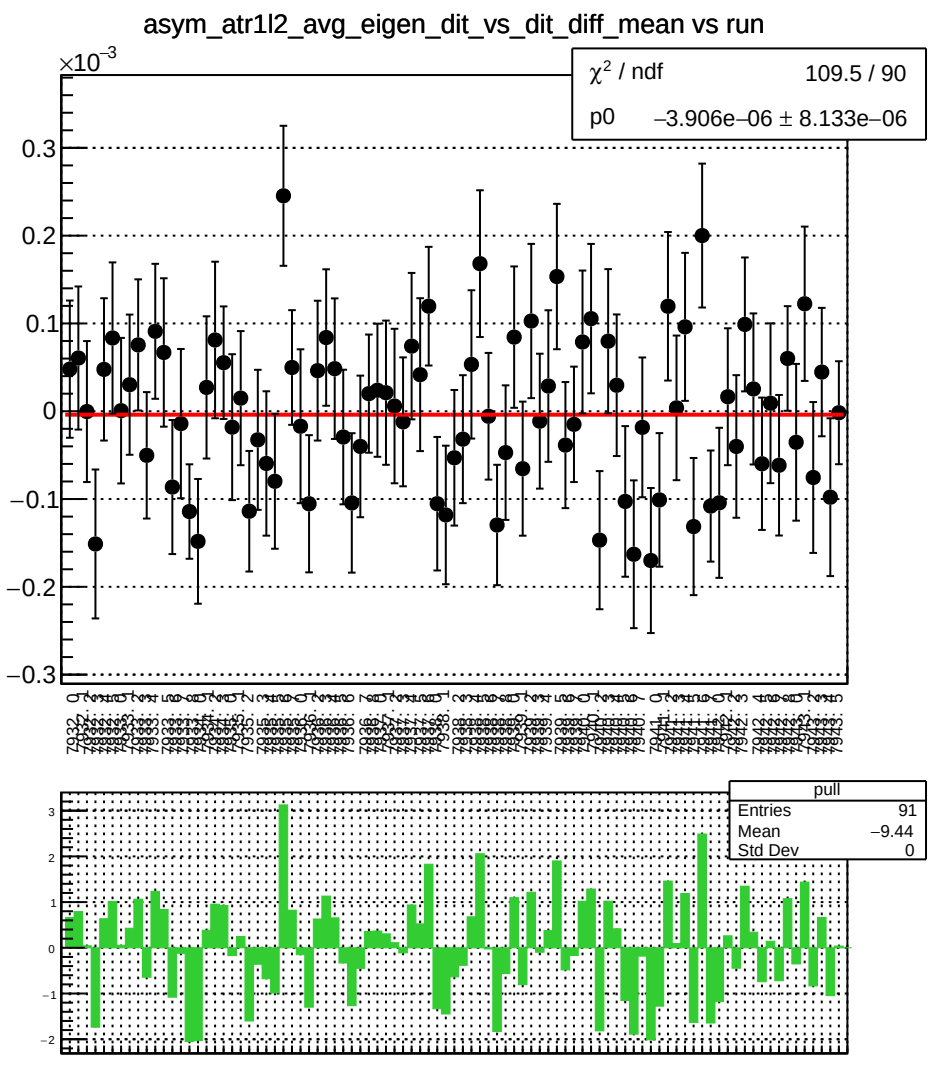

pull1D
Entries 91
Mean 0.01023
Std Dev 1.076

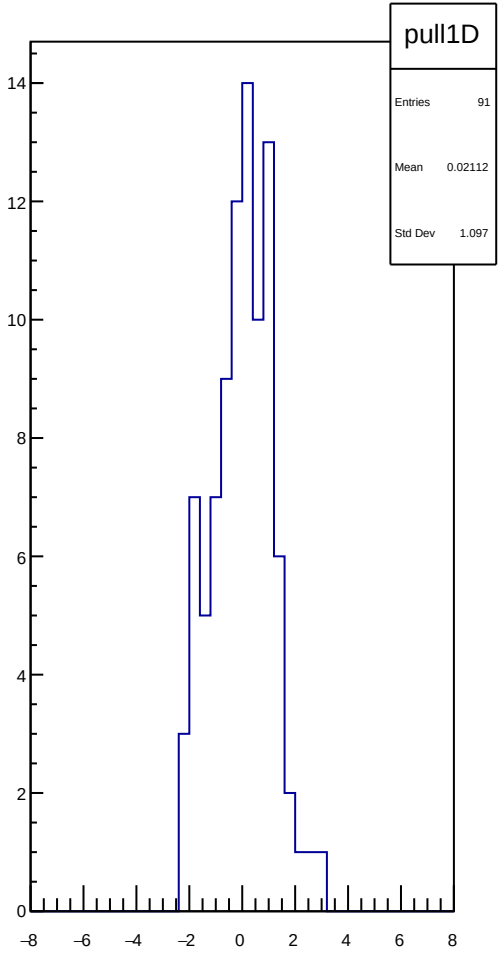

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 90
p0 207.3 ± 0.1578
340
320
300
280
260
240
220
200
180
160

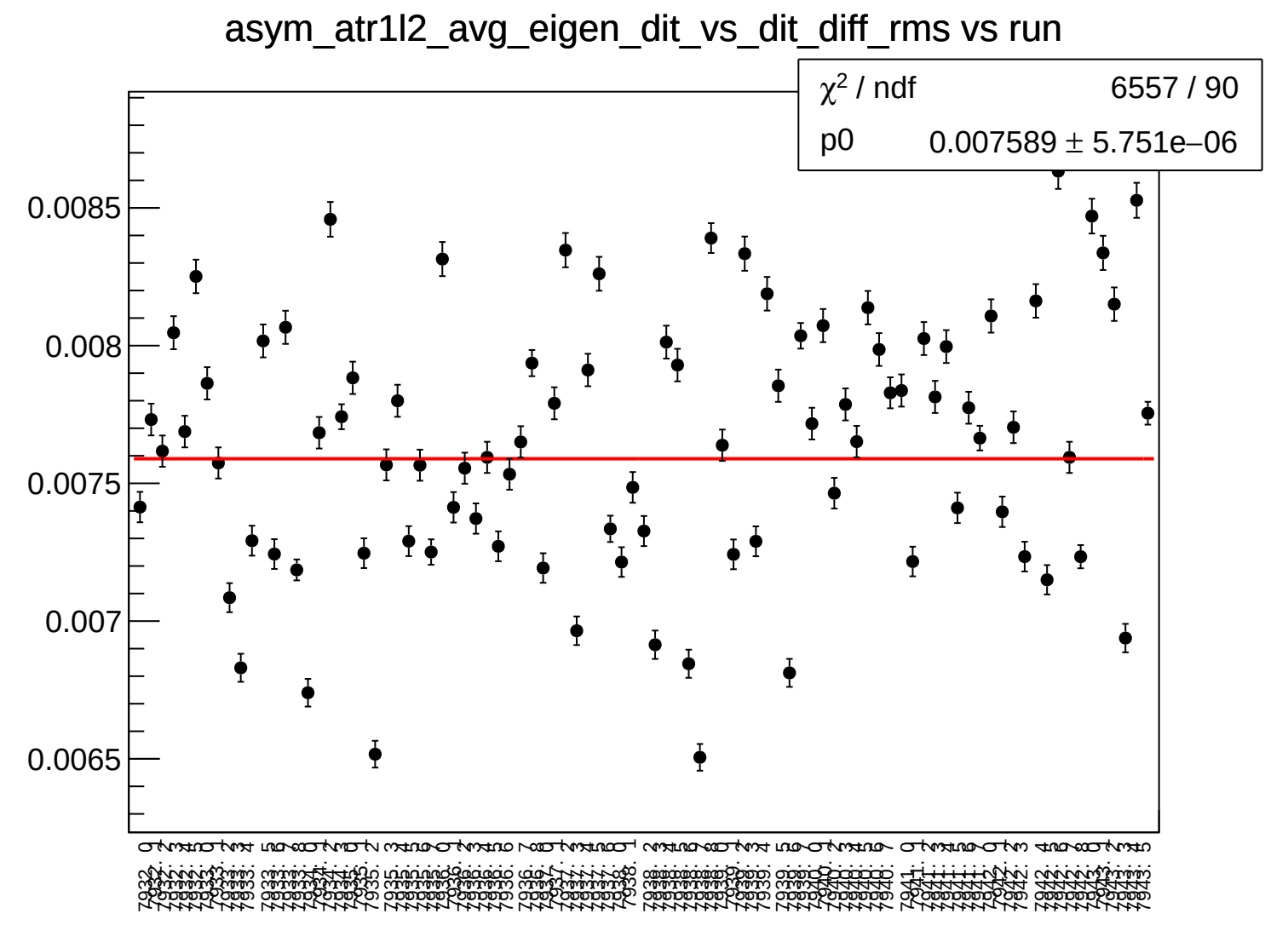

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 90
p0 −0.05014 ± 0.2232
pull
Entries 91
Mean −136.5
Std Dev 0

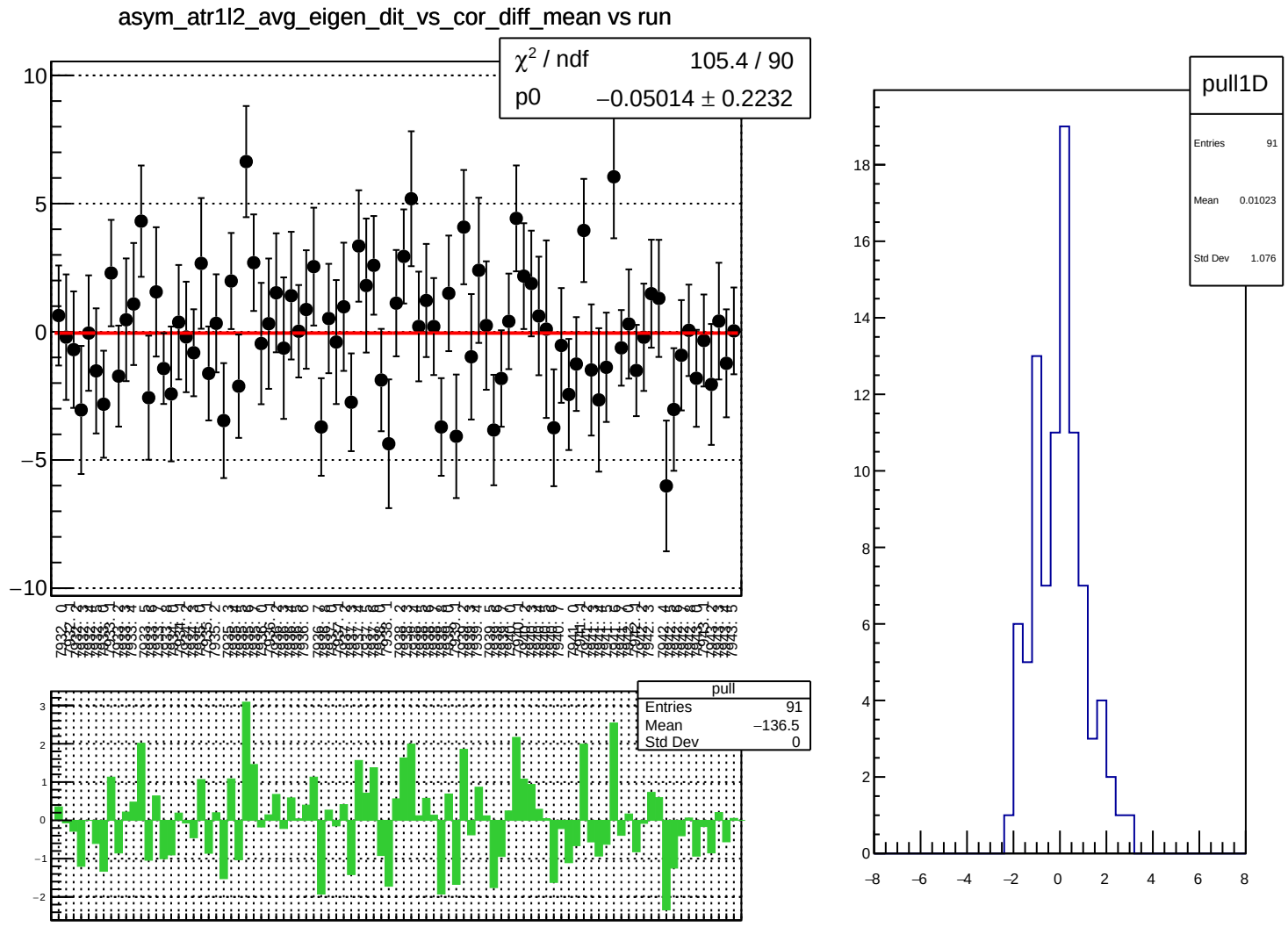

pull1D
Entries 91
Mean 0.01023
Std Dev 1.076

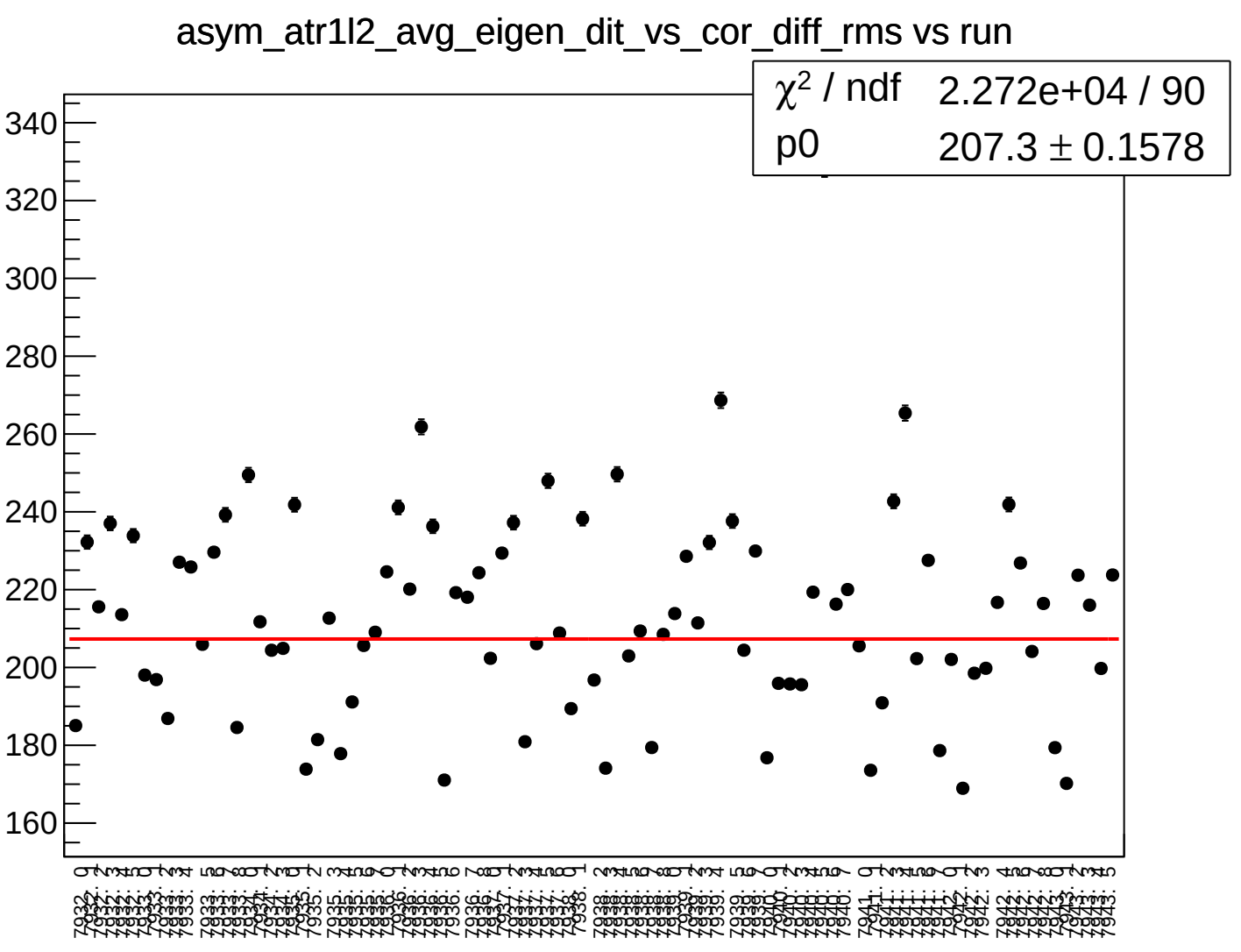

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 90
p0 207.3 ± 0.1578
340
320
300
280
260
240
220
200
180
160

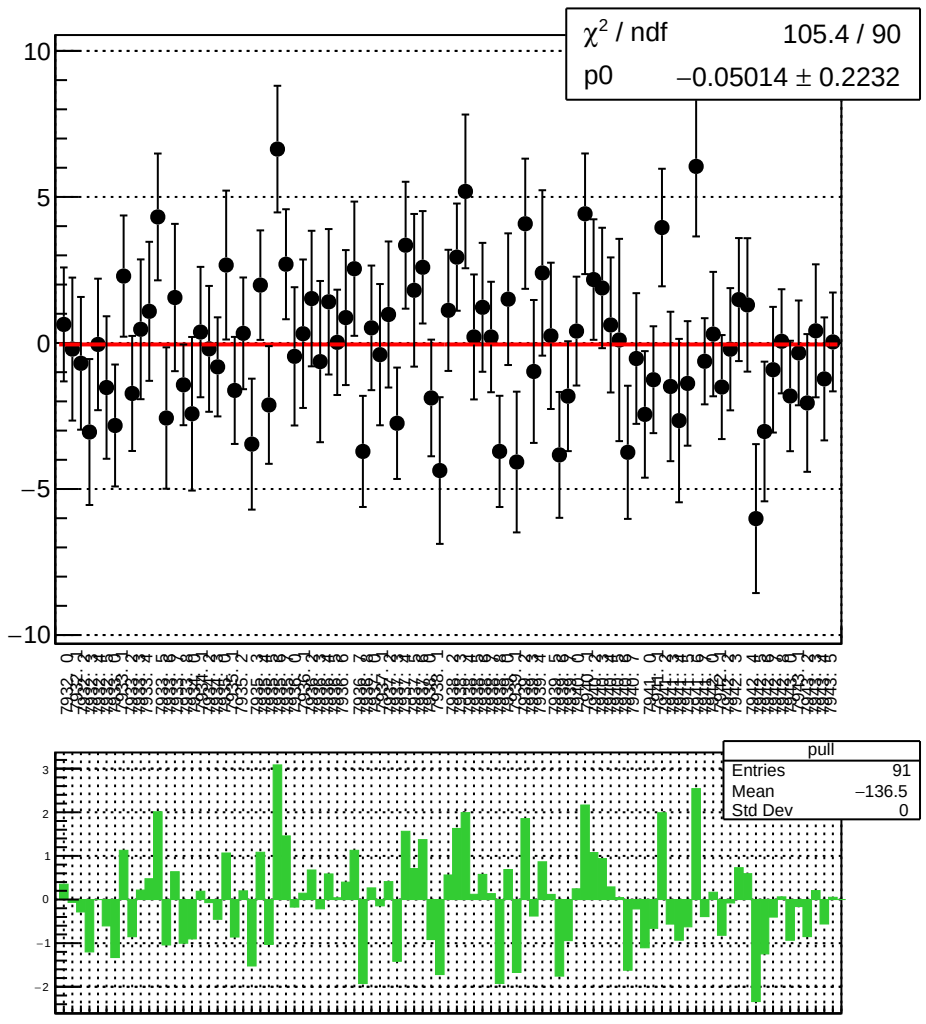

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.5 / 90
p0 −3.906e−06 ± 8.133e−06
pull
Entries 91
Mean −9.44
Std Dev 0

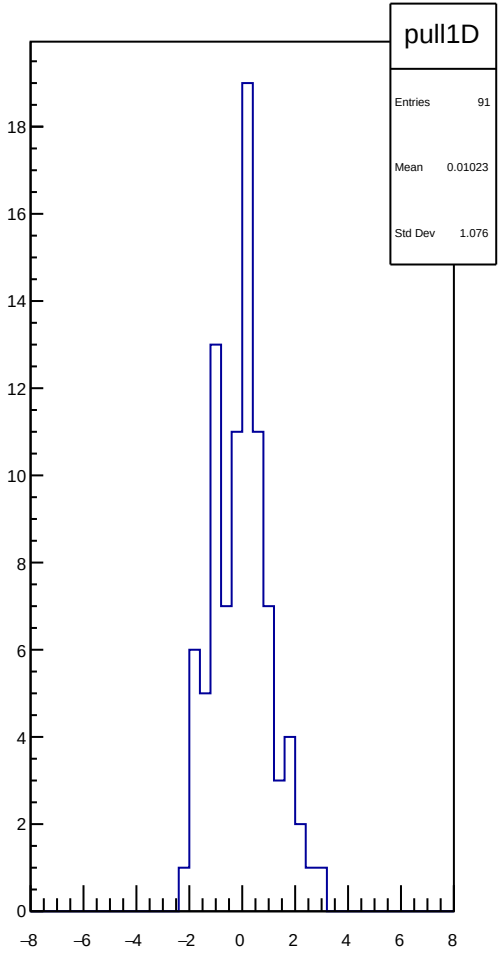

pull1D
Entries 91
Mean 0.02112
Std Dev 1.097

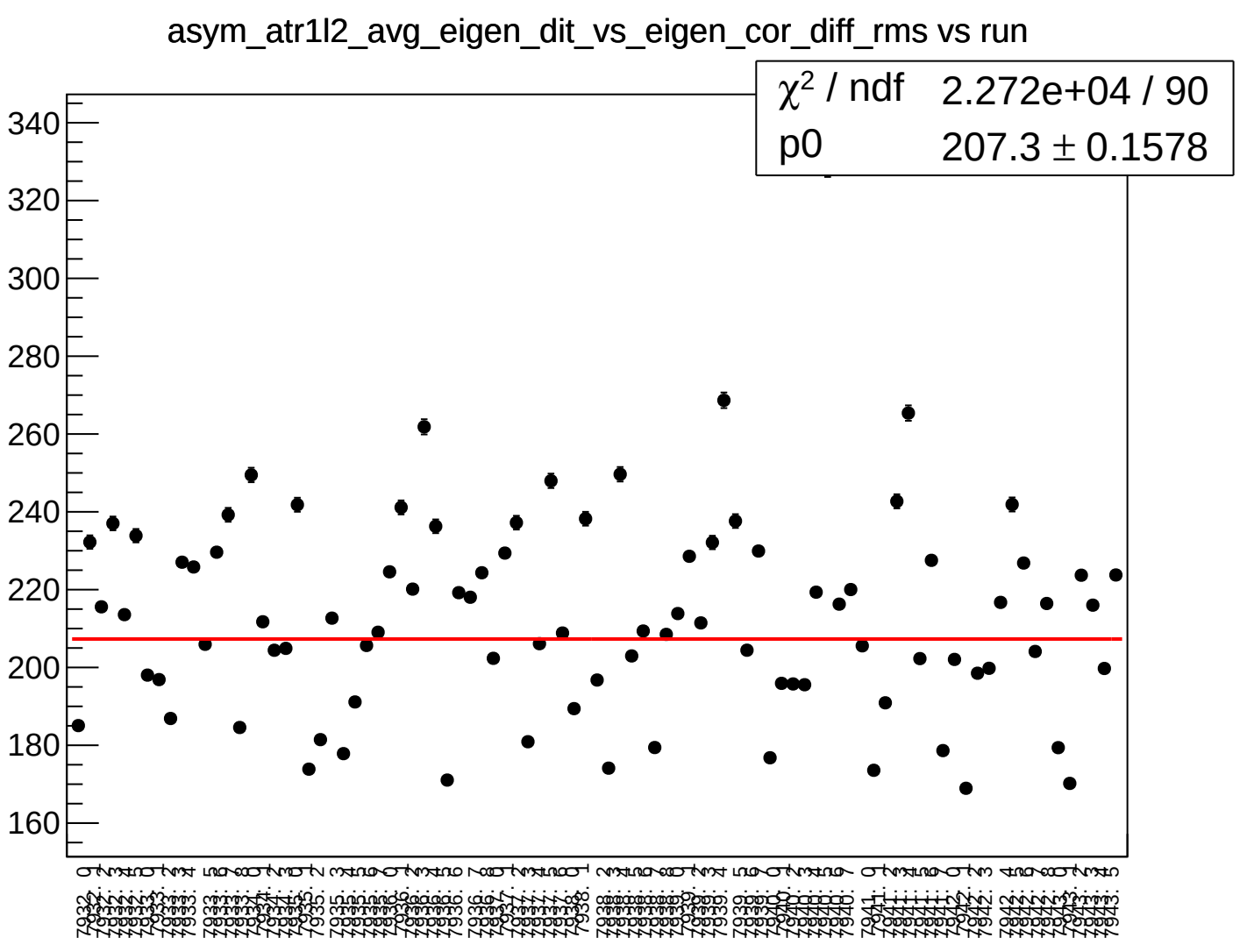

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6557 / 90
p0 0.007589 ± 5.751e−06
0.0085
0.008
0.0075
0.007
0.0065

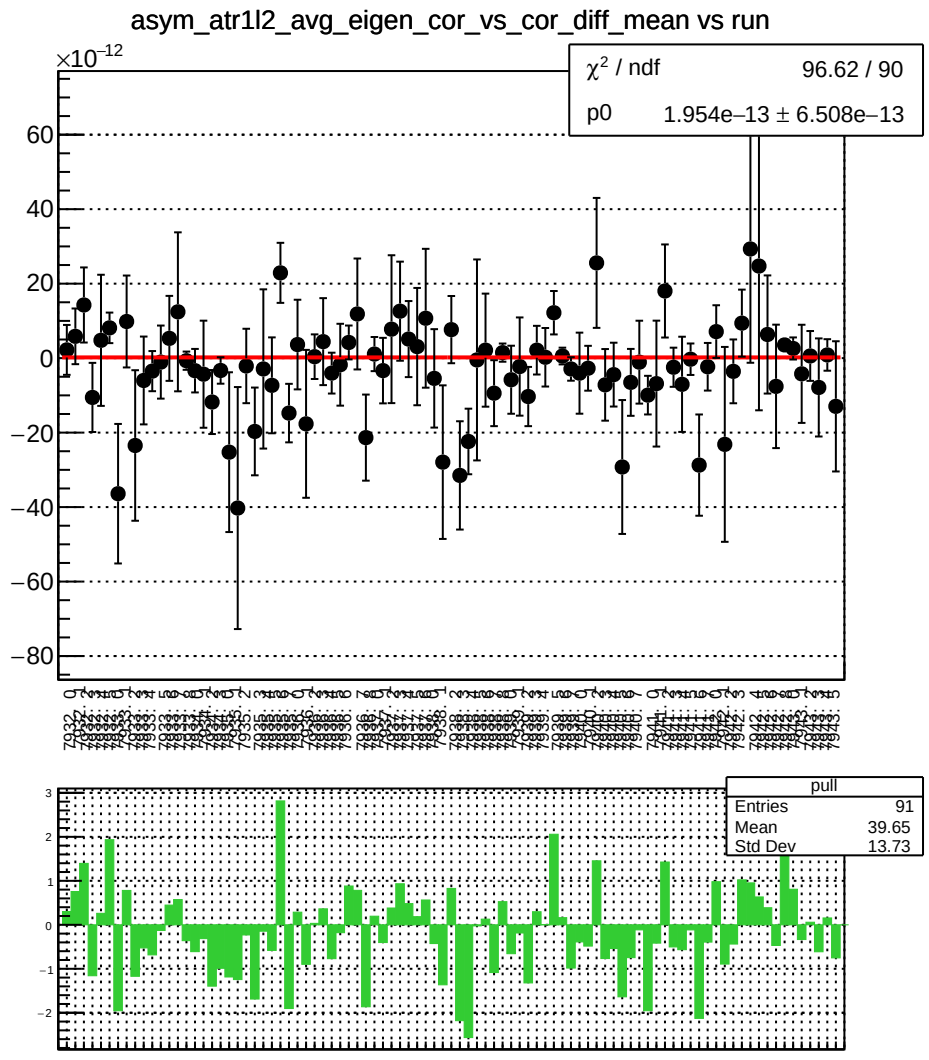

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 90
p0 −0.05014 ± 0.2232
pull
Entries 91
Mean −136.5
Std Dev 0
pull1D
Entries 91
Mean 0.01023
Std Dev 1.076

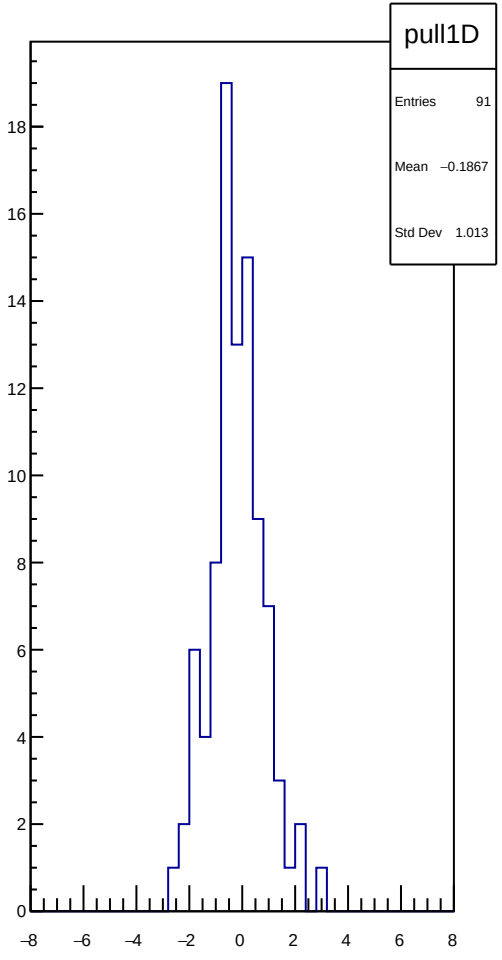

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 90
p0 207.3 ± 0.1578
340
320
300
280
260
240
220
200
180
160

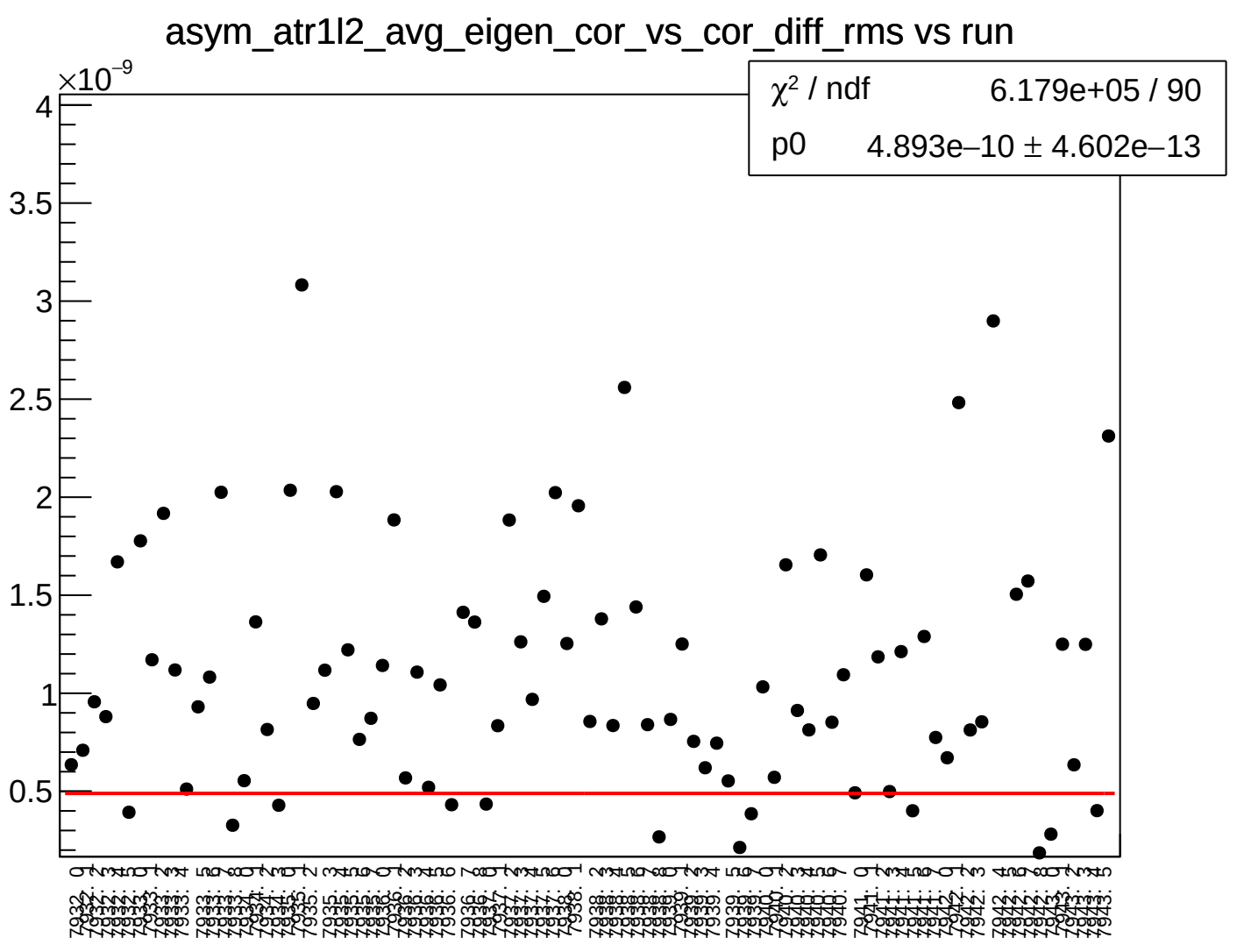

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 90
p0 −0.05014 ± 0.2232
pull
Entries 91
Mean −136.5
Std Dev 0

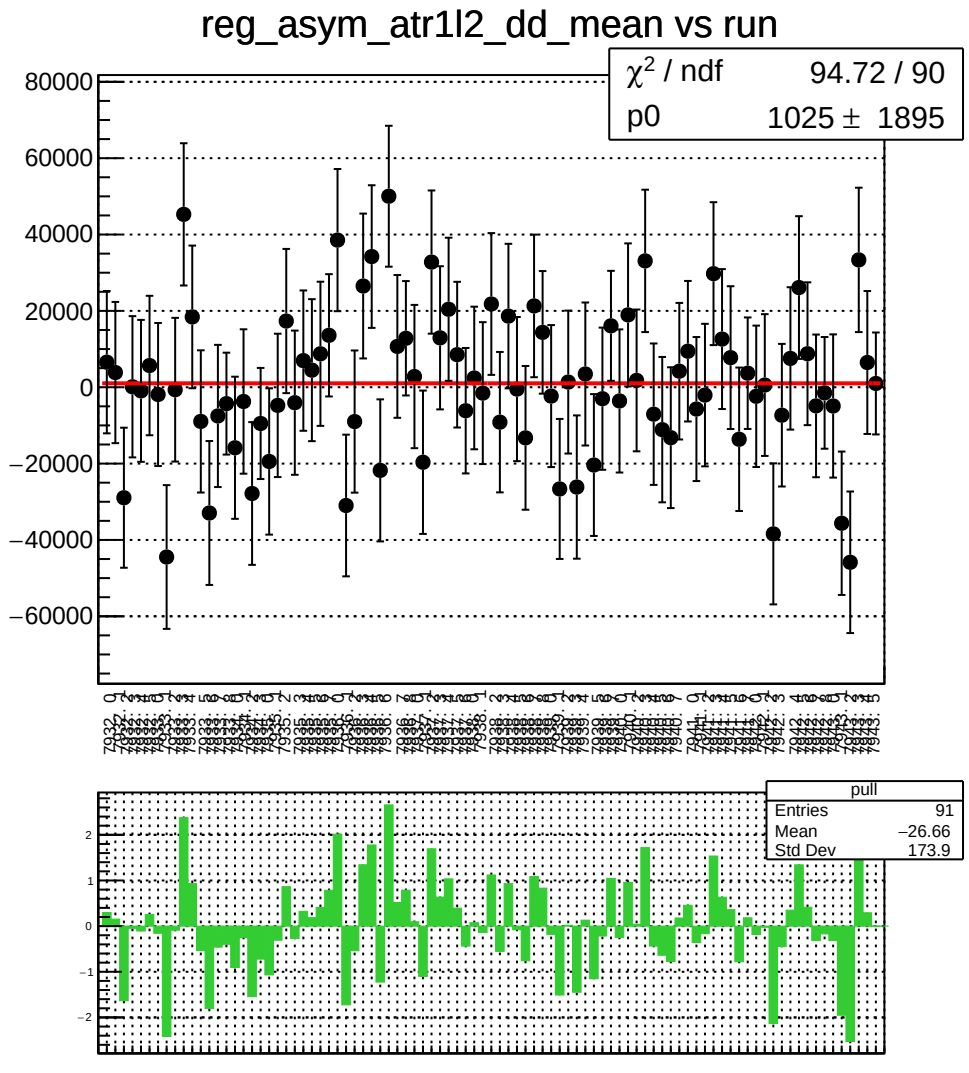

pull1D
Entries 91
Mean 0.01023
Std Dev 1.076

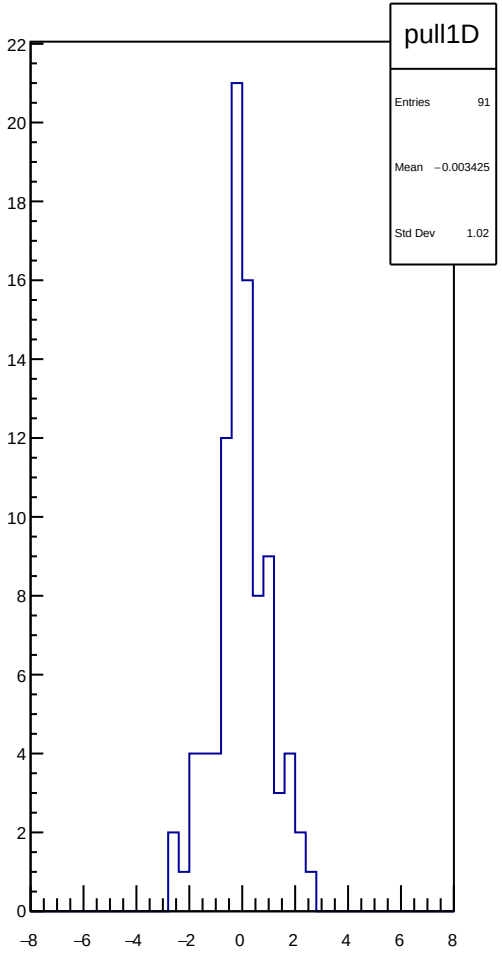

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 90
p0 207.3 ± 0.1578
340
320
300
280
260
240
220
200
180
160

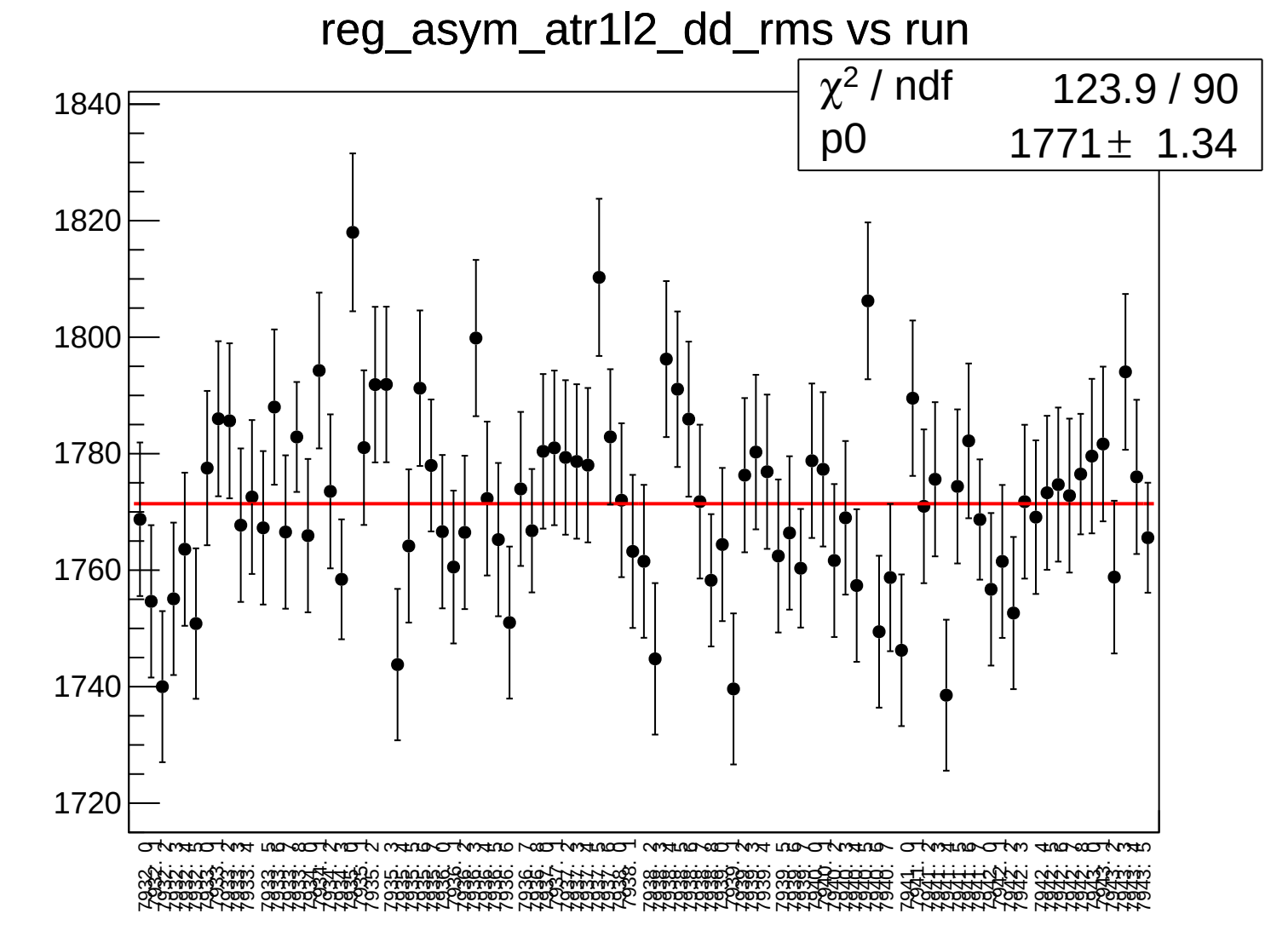

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.62 / 90
p0 1.954e−13 ± 6.508e−13
pull
Entries 91
Mean 39.65
Std Dev 13.73

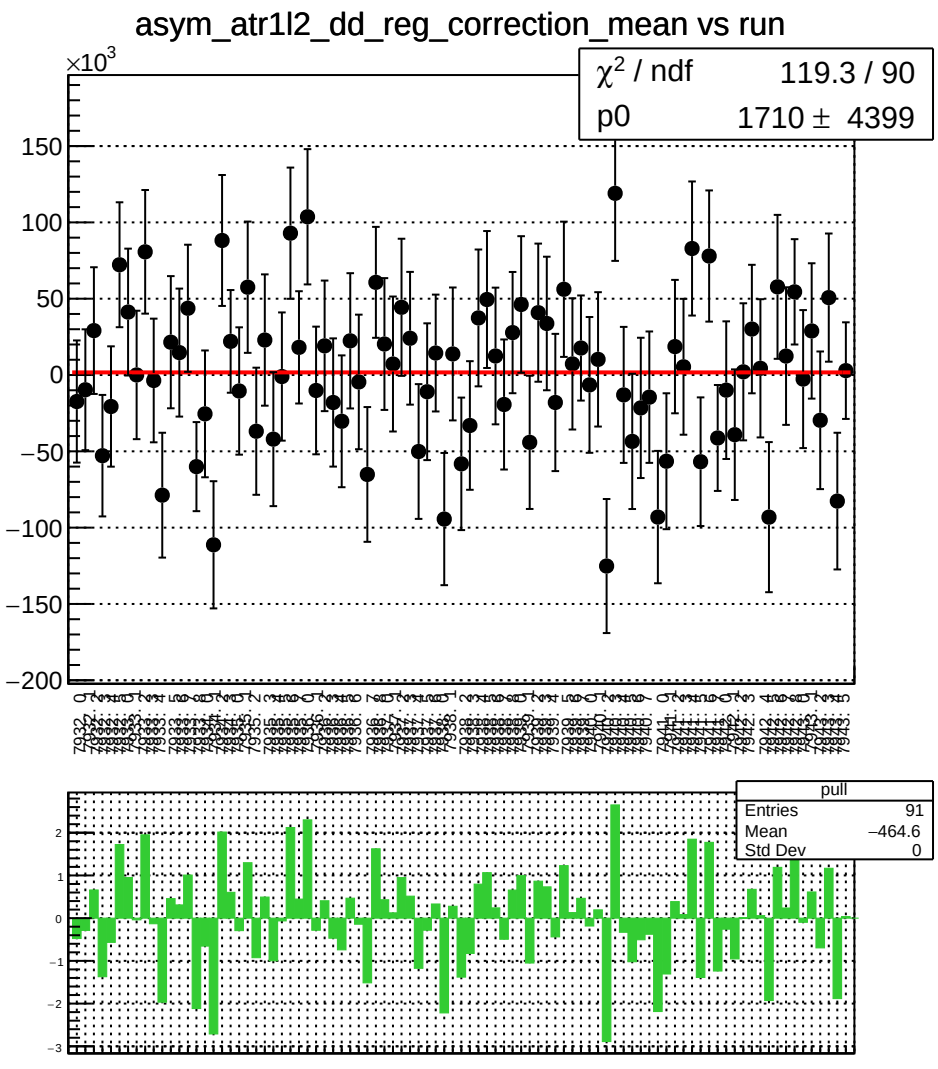

pull1D
Entries 91
Mean −0.1867
Std Dev 1.013

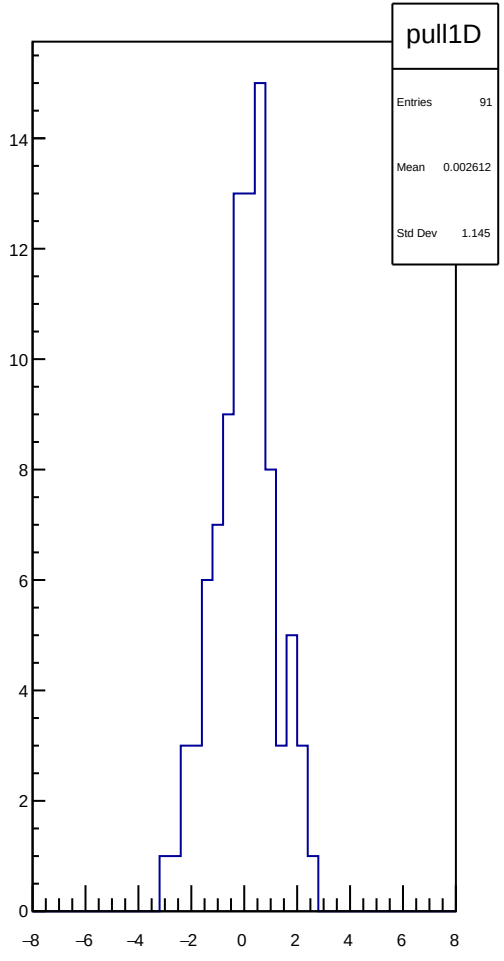

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.179e+05 / 90
p0 4.893e−10 ± 4.602e−13
4
3.5
3
2.5
2
1.5
1
0.5

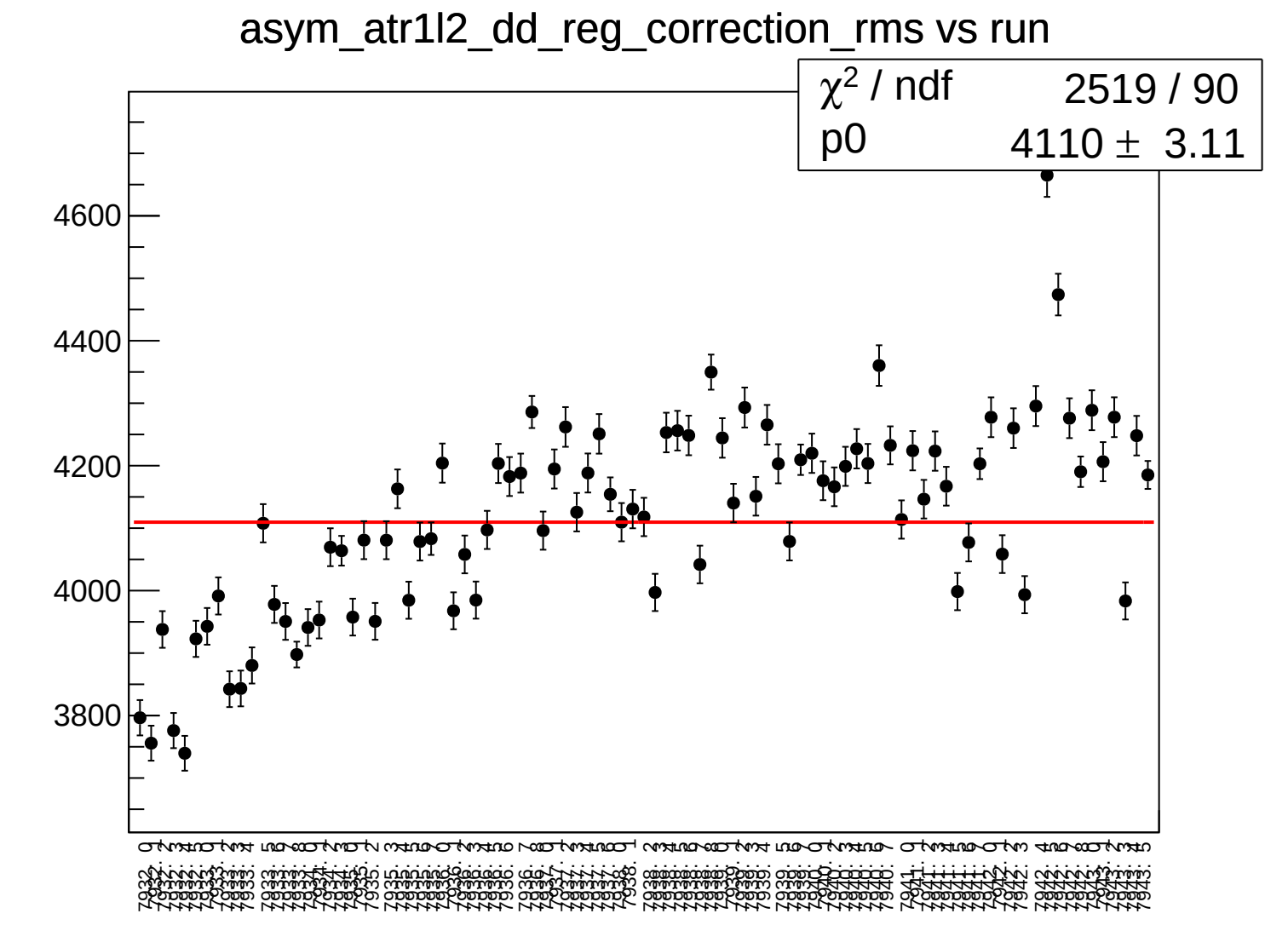

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 94.72 / 90
p0 1025 ± 1895
pull
Entries 91
Mean −26.66
Std Dev 173.9

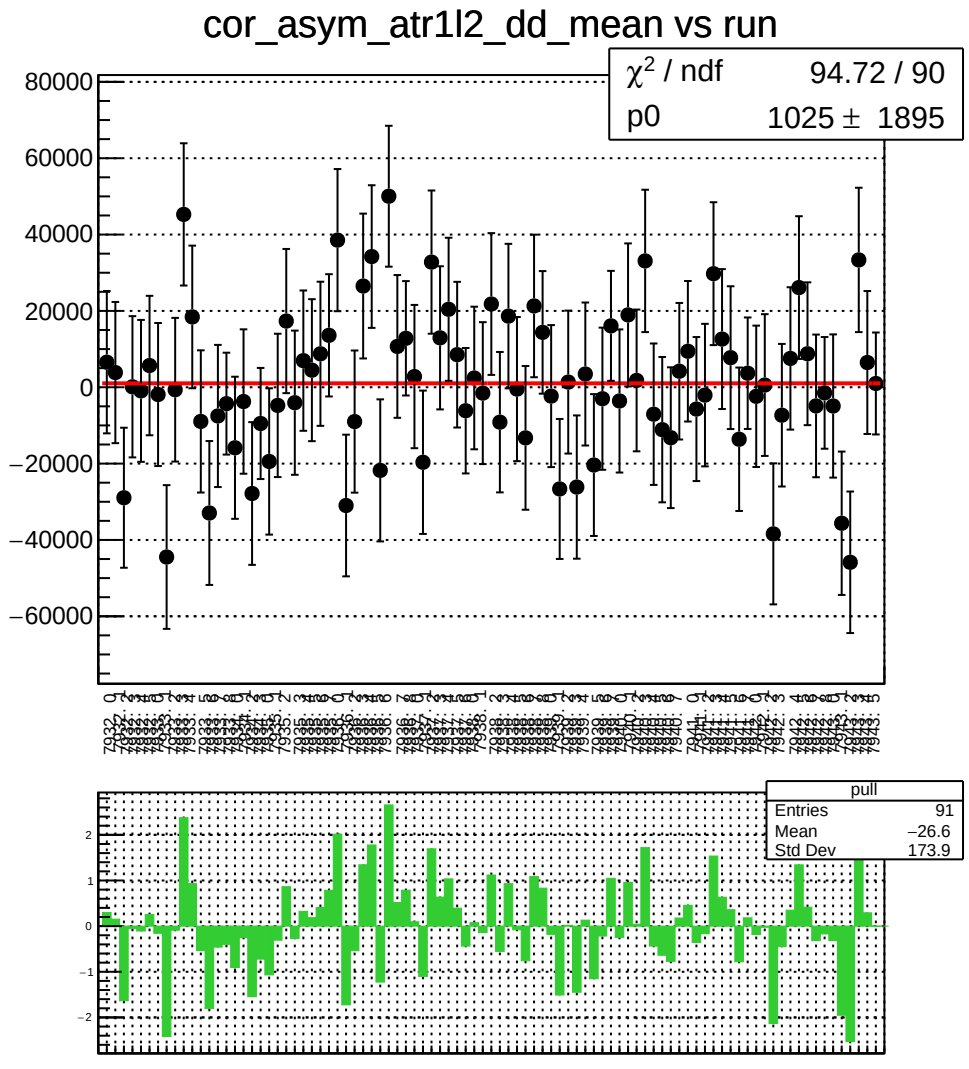

pull1D
Entries 91
Mean −0.003425
Std Dev 1.02

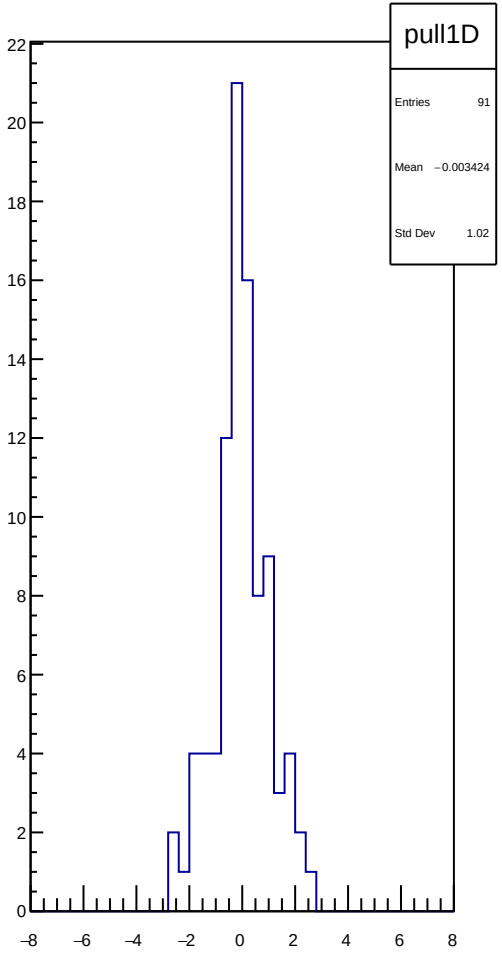

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 123.9 / 90
p0 1771 ± 1.34
1840
1820
1800
1780
1760
1740
1720

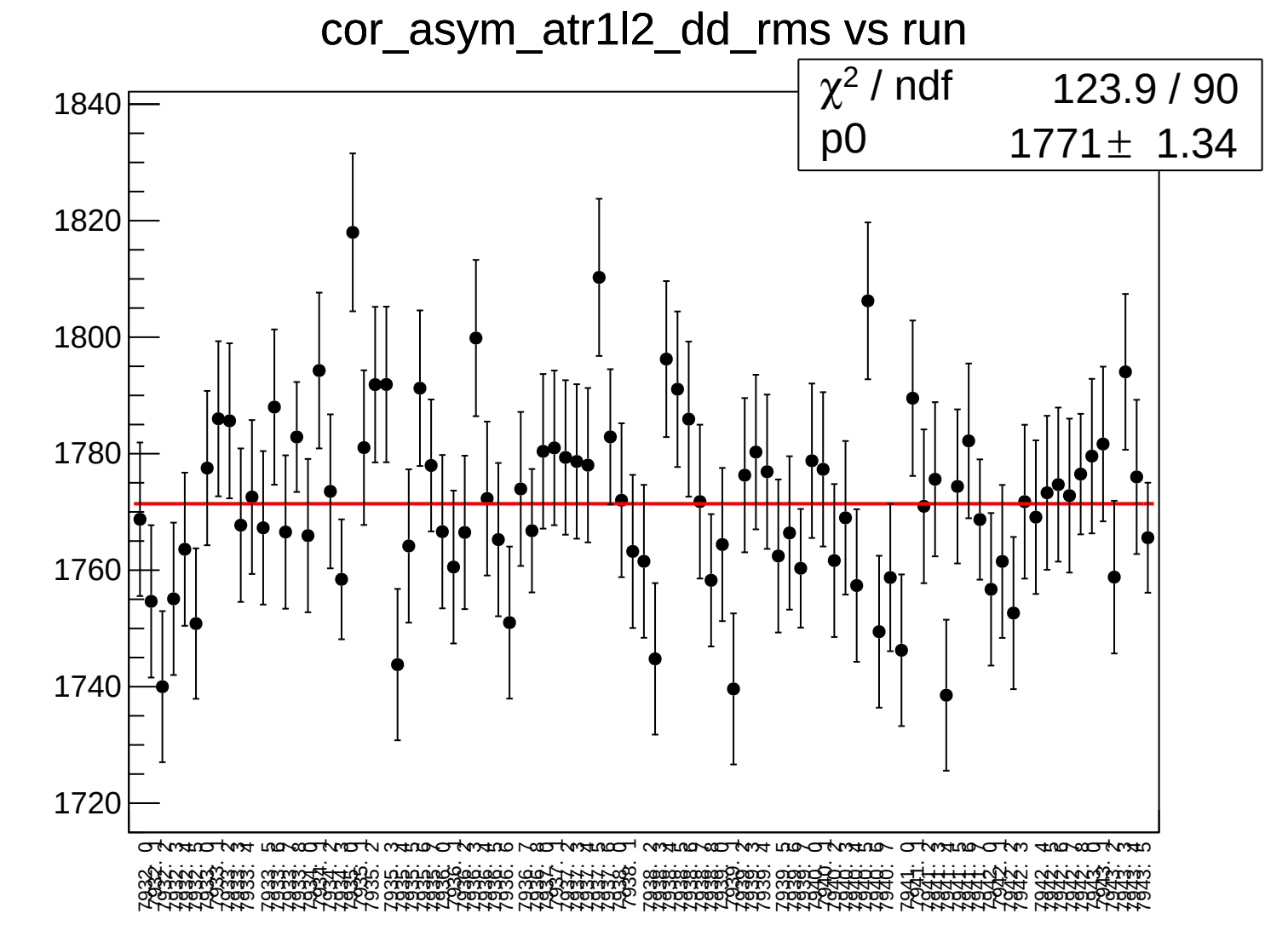

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 119.3 / 90
p0 1710 ± 4399
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −464.6
Std Dev 0
2
1
0
−1
−2
−3

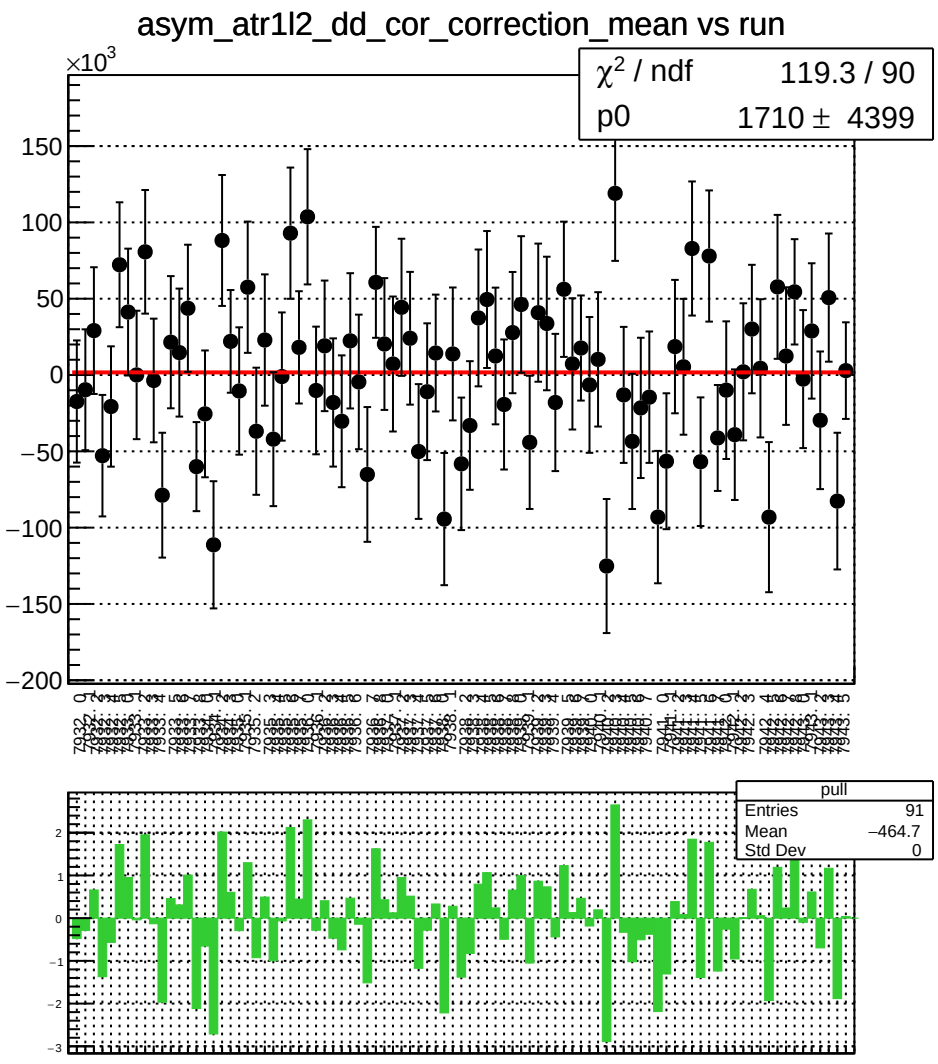

pull1D
Entries 91
Mean 0.002612
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

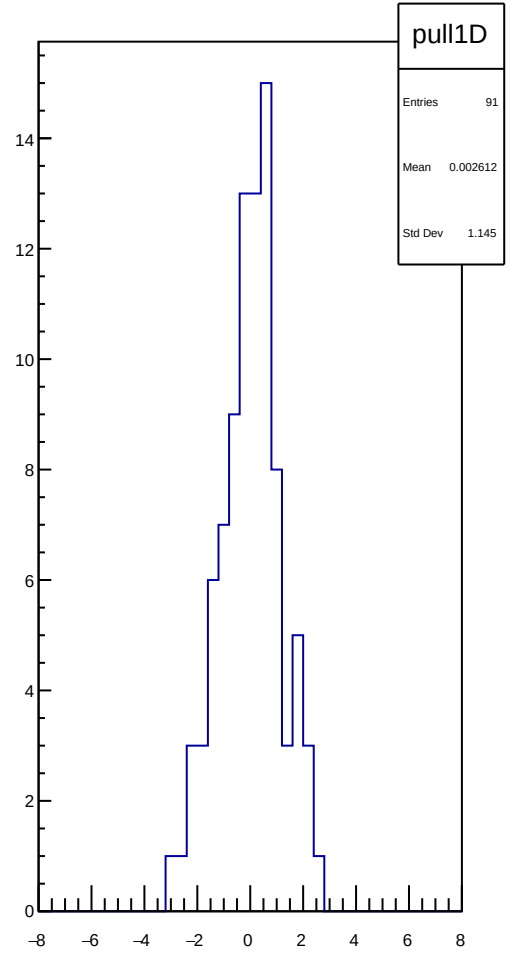

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2519 / 90
p0 4110 ± 3.11
4600
4400
4200
4000
3800

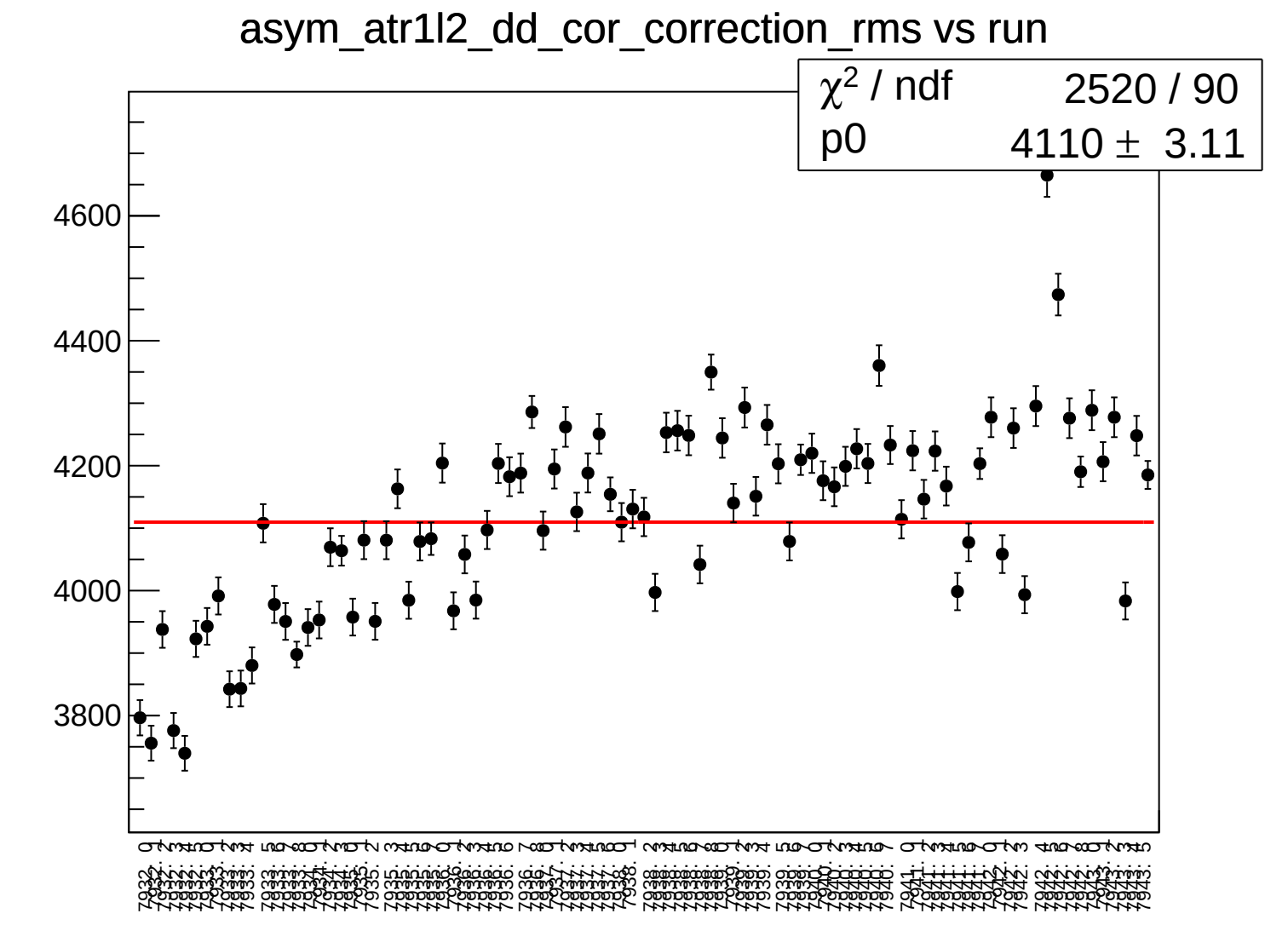

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 94.72 / 90
p0 1025 ± 1895
pull
Entries 91
Mean −26.6
Std Dev 173.9

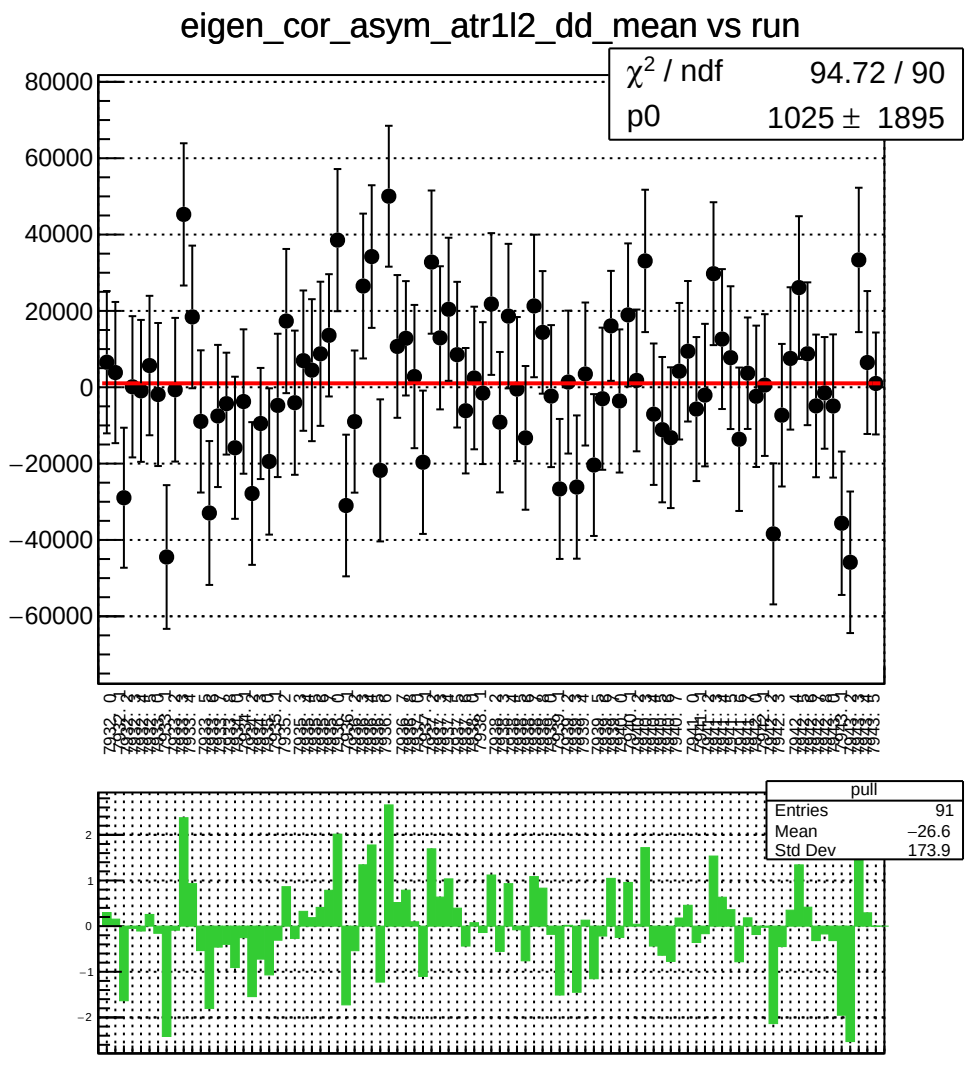

pull1D
Entries 91
Mean −0.003424
Std Dev 1.02

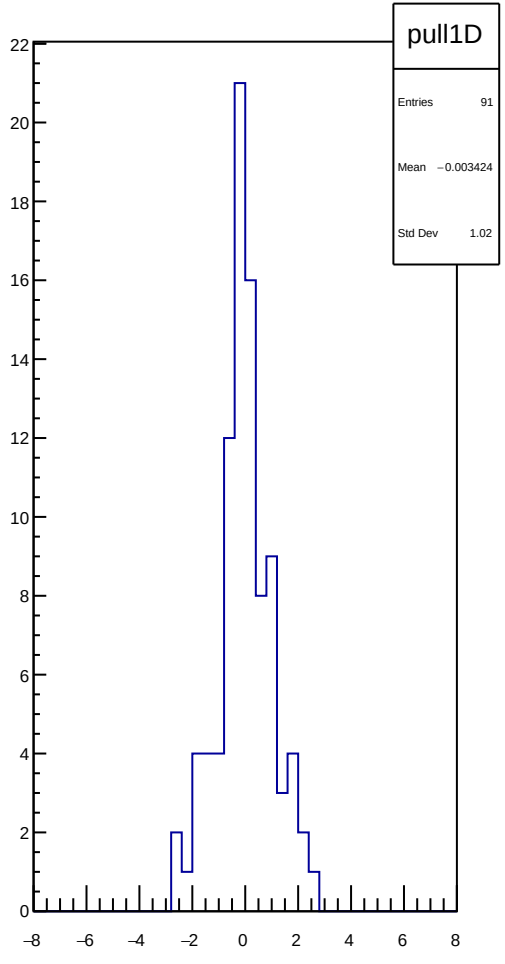

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 123.9 / 90
p0 1771 ± 1.34
1840
1820
1800
1780
1760
1740
1720

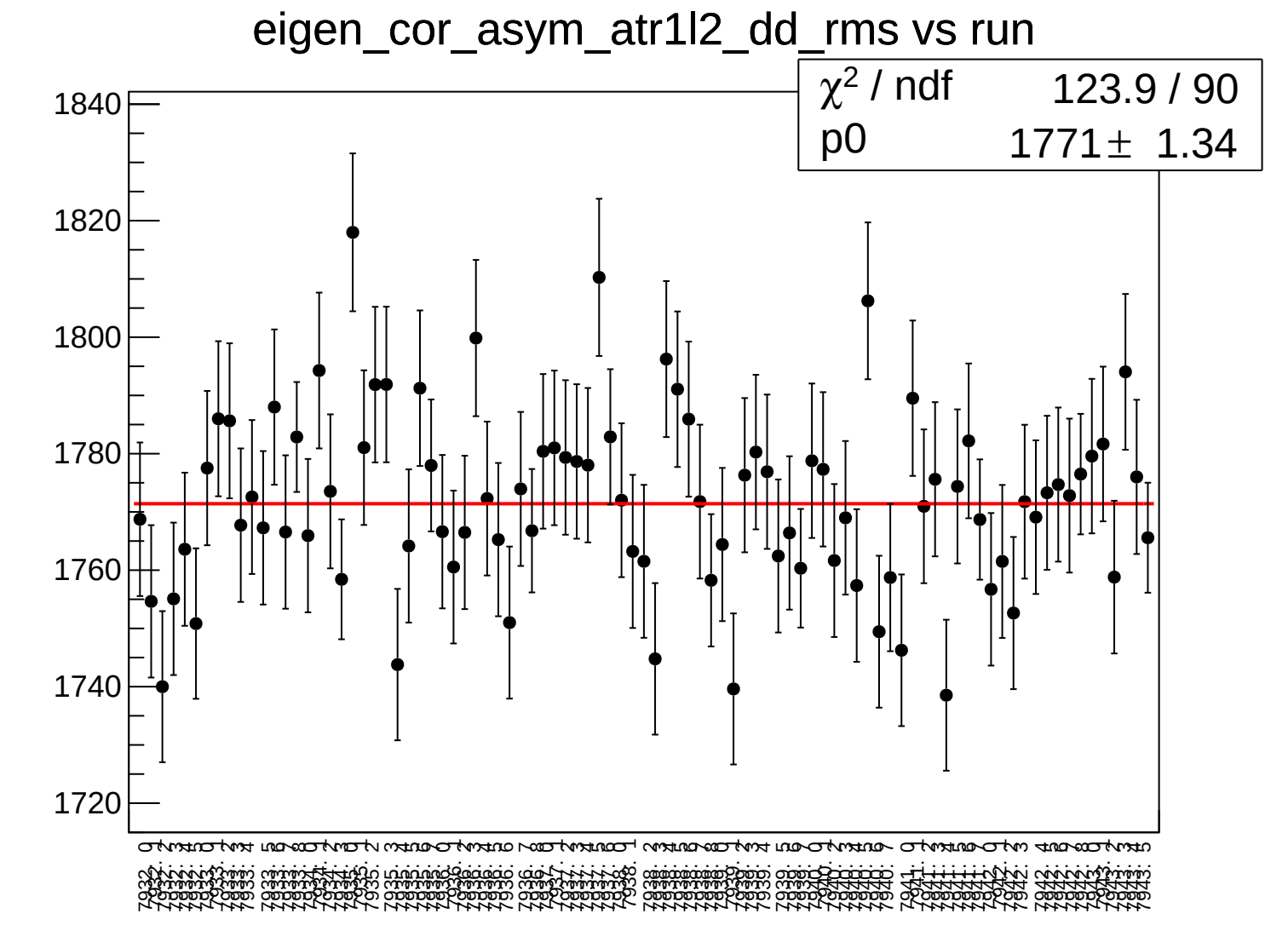

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.3 / 90
p0 1710 ± 4399
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −464.7
Std Dev 0
2
1
0
−1
−2
−3

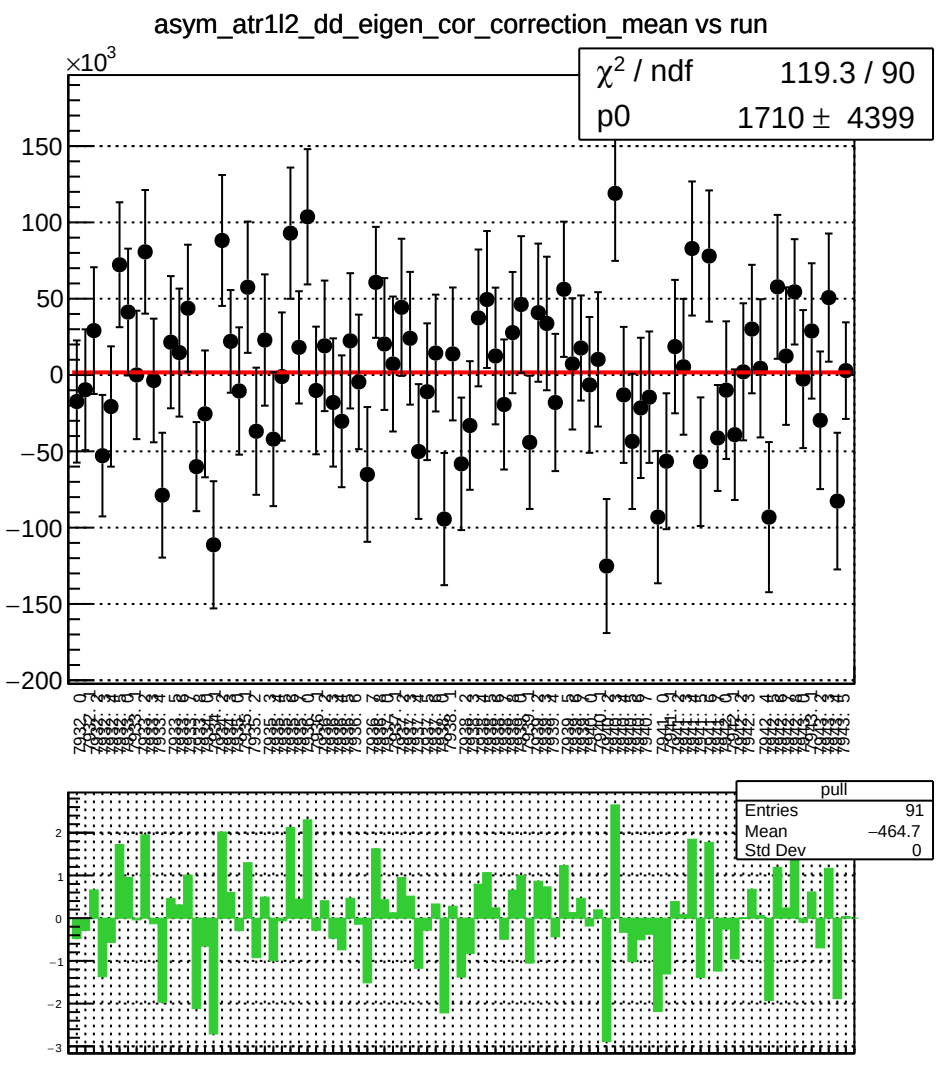

pull1D
Entries 91
Mean 0.002612
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

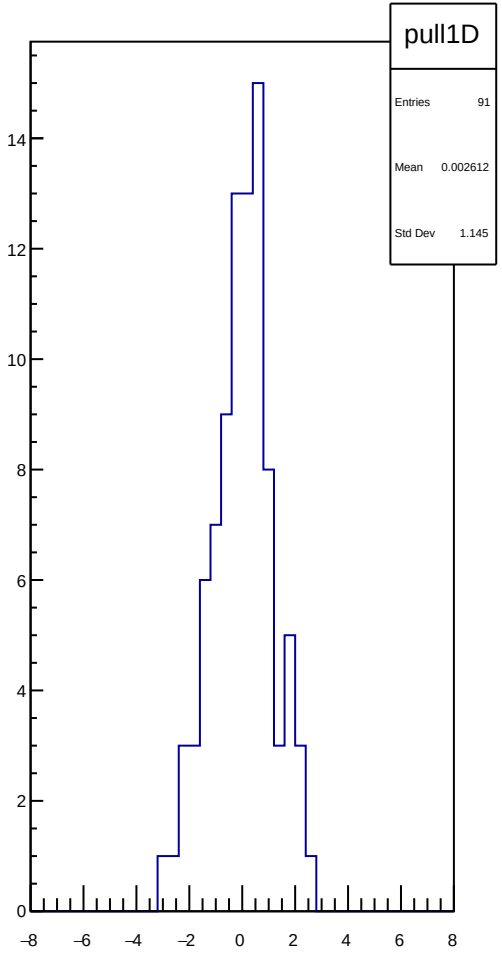

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2520 / 90
p0 4110 ± 3.11
4600
4400
4200
4000
3800

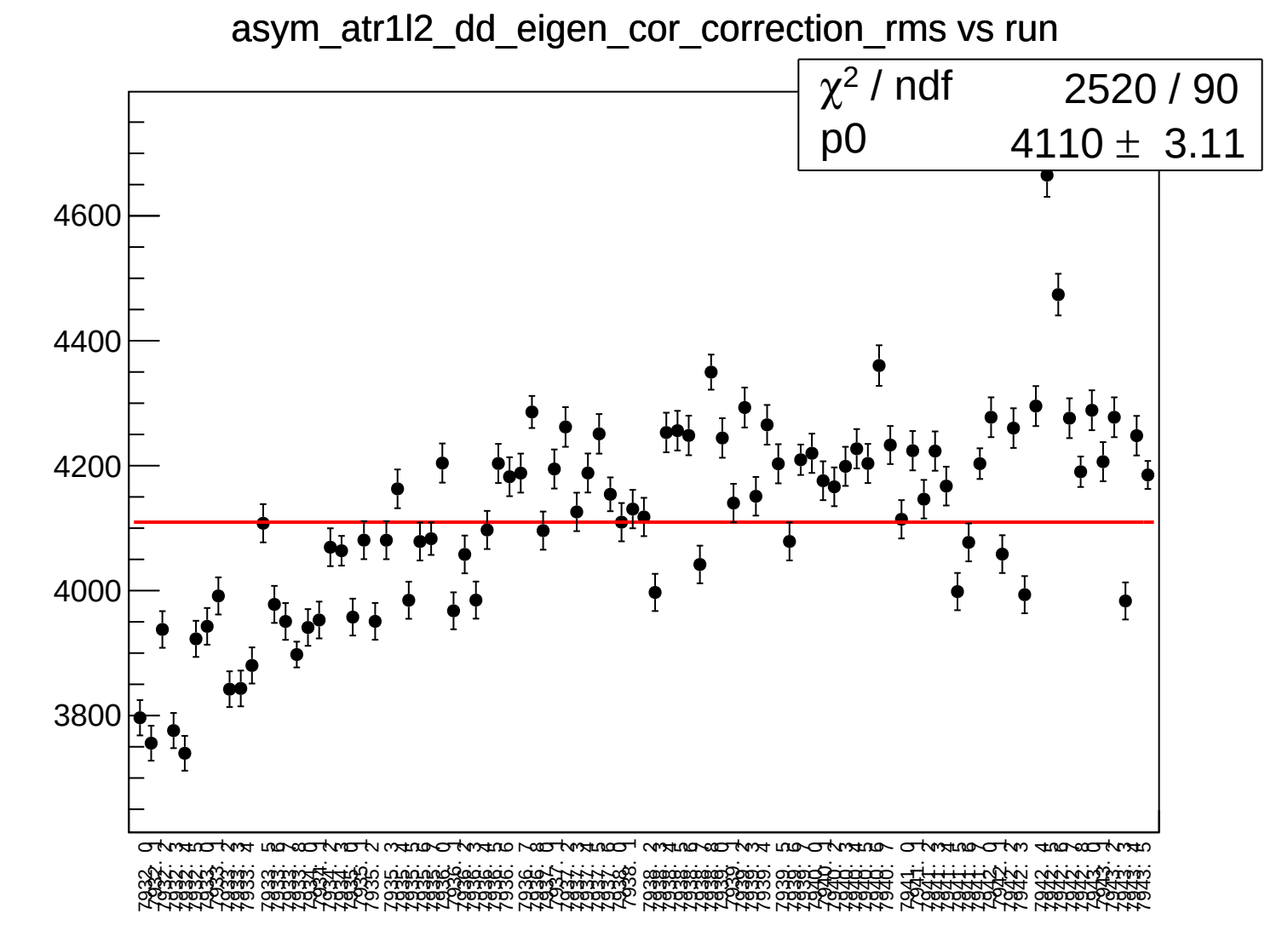

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 94.72 / 90
p0 1025 ± 1895
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −26.6
Std Dev 173.9
2
1
0
−1
−2

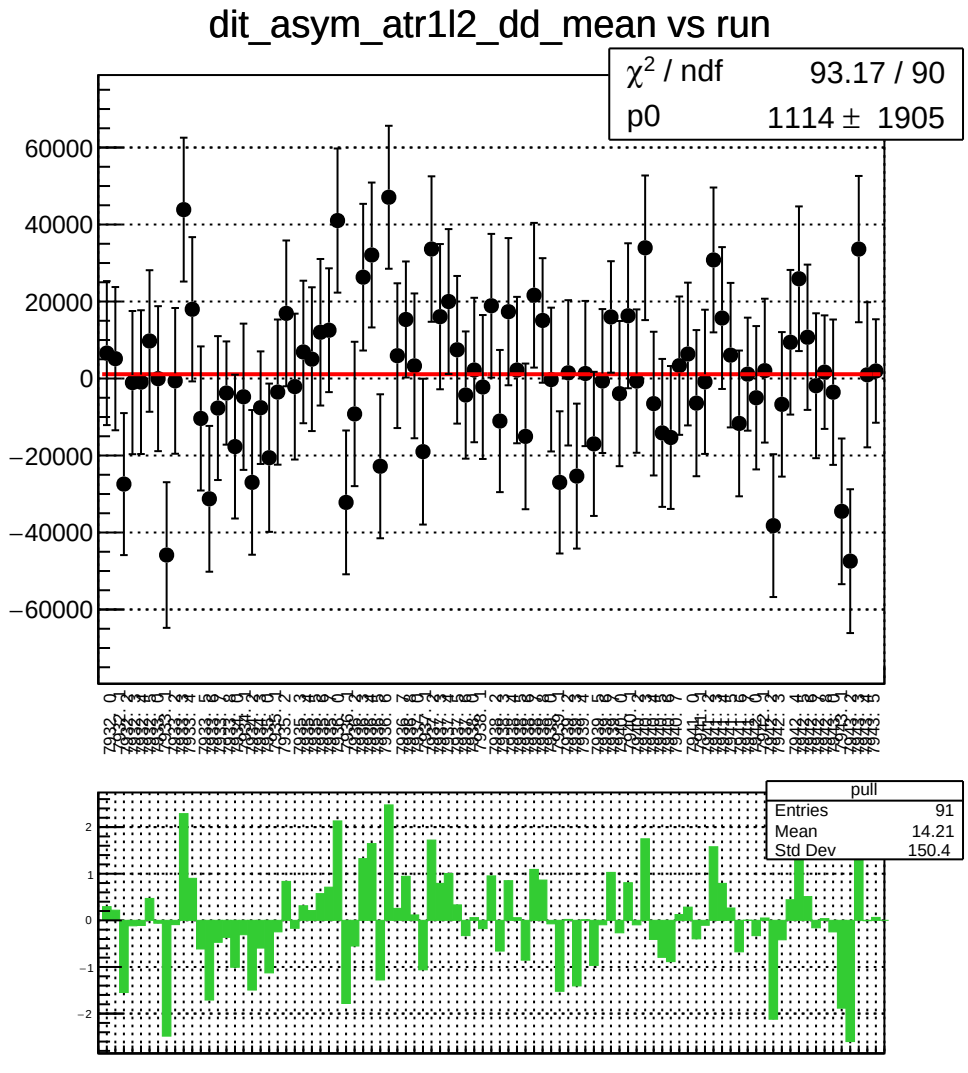

pull1D
Entries 91
Mean −0.003424
Std Dev 1.02
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

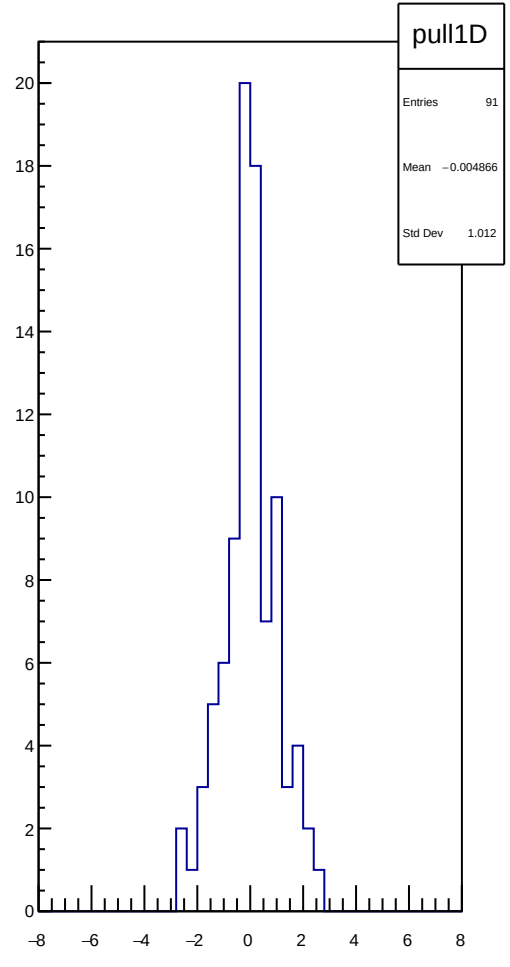

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 123.9 / 90
p0 1771 ± 1.34
1840
1820
1800
1780
1760
1740
1720

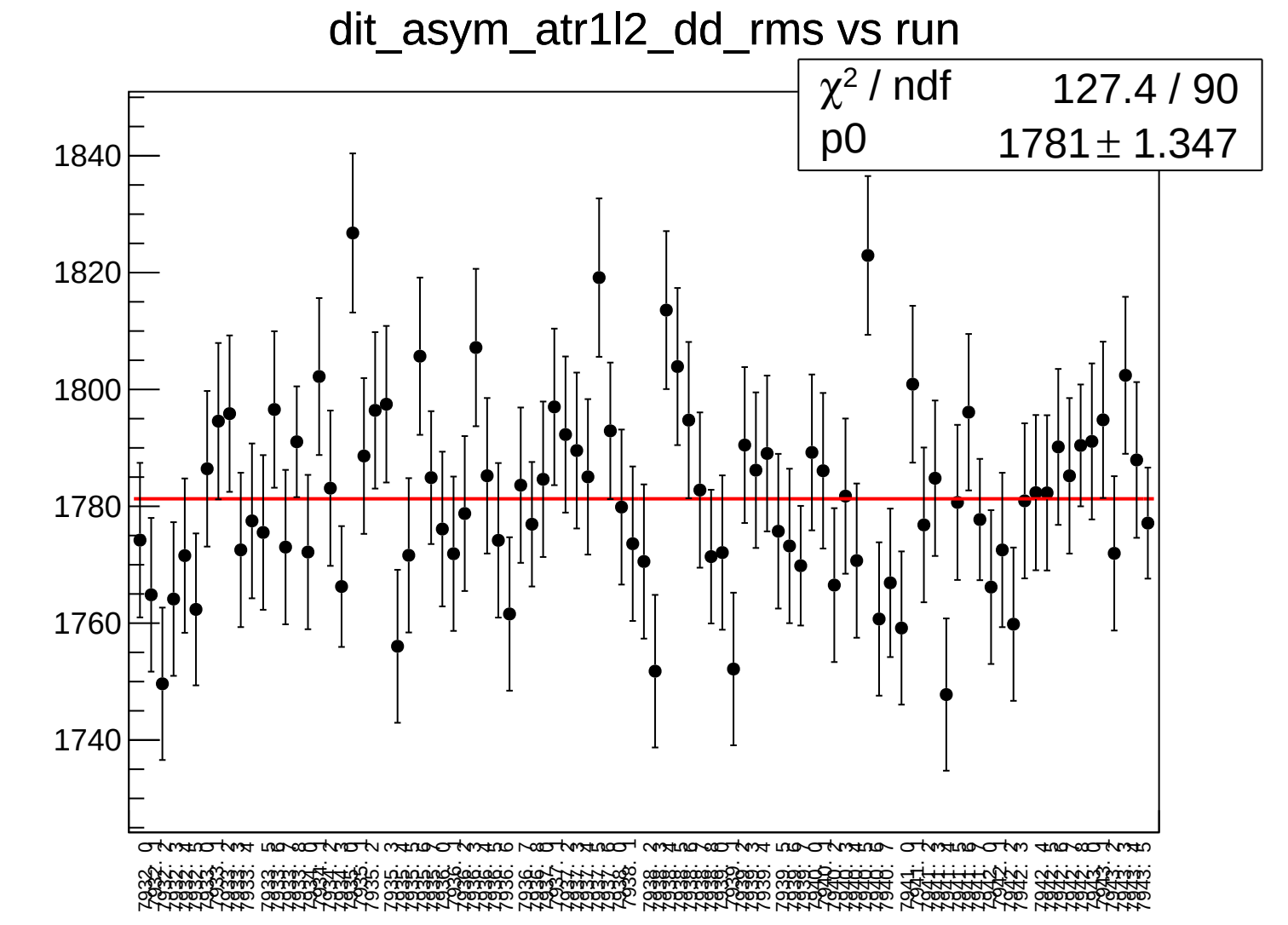

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 119.3 / 90
p0 1710 ± 4399
×10³
pull
Entries 91
Mean −464.7
Std Dev 0

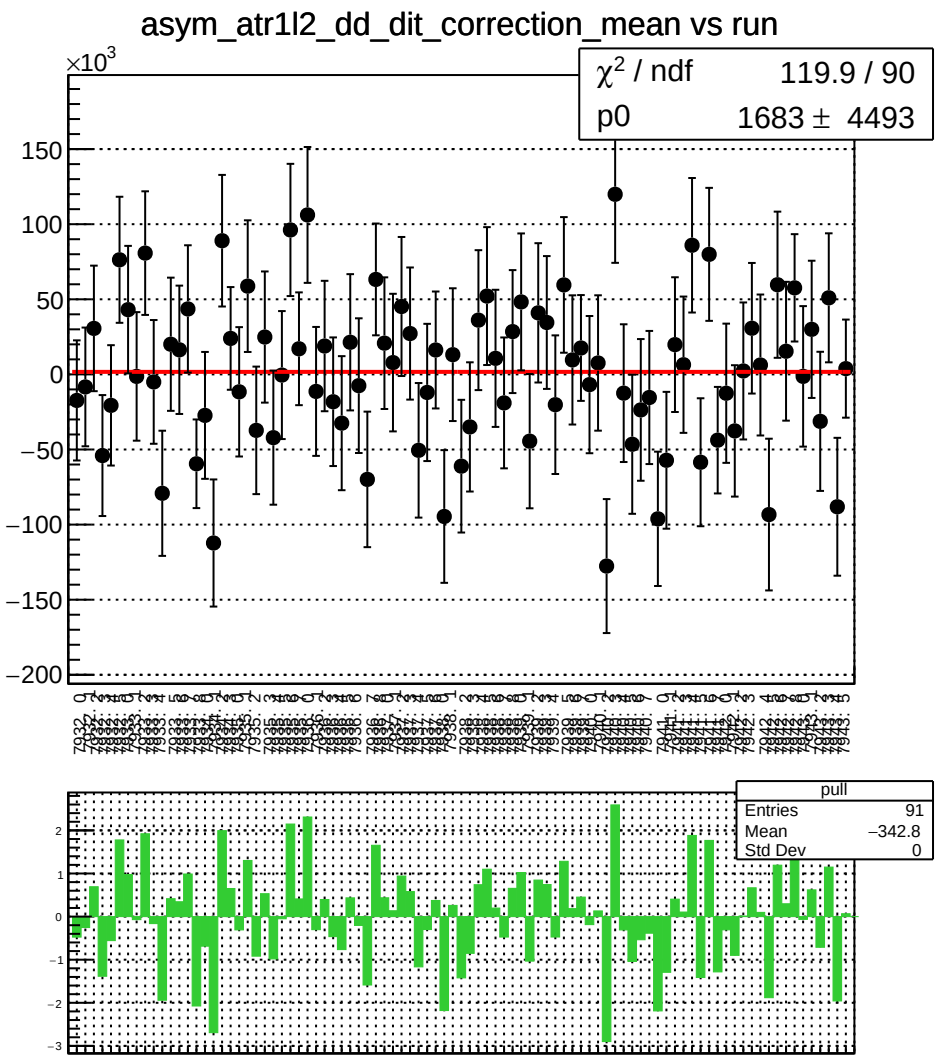

pull1D
Entries 91
Mean 0.002612
Std Dev 1.145

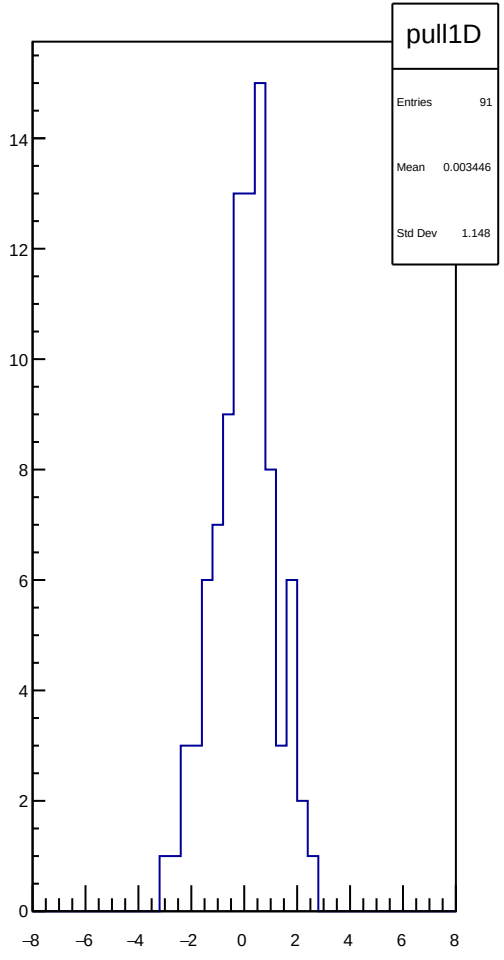

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2520 / 90
p0 4110 ± 3.11
4600
4400
4200
4000
3800

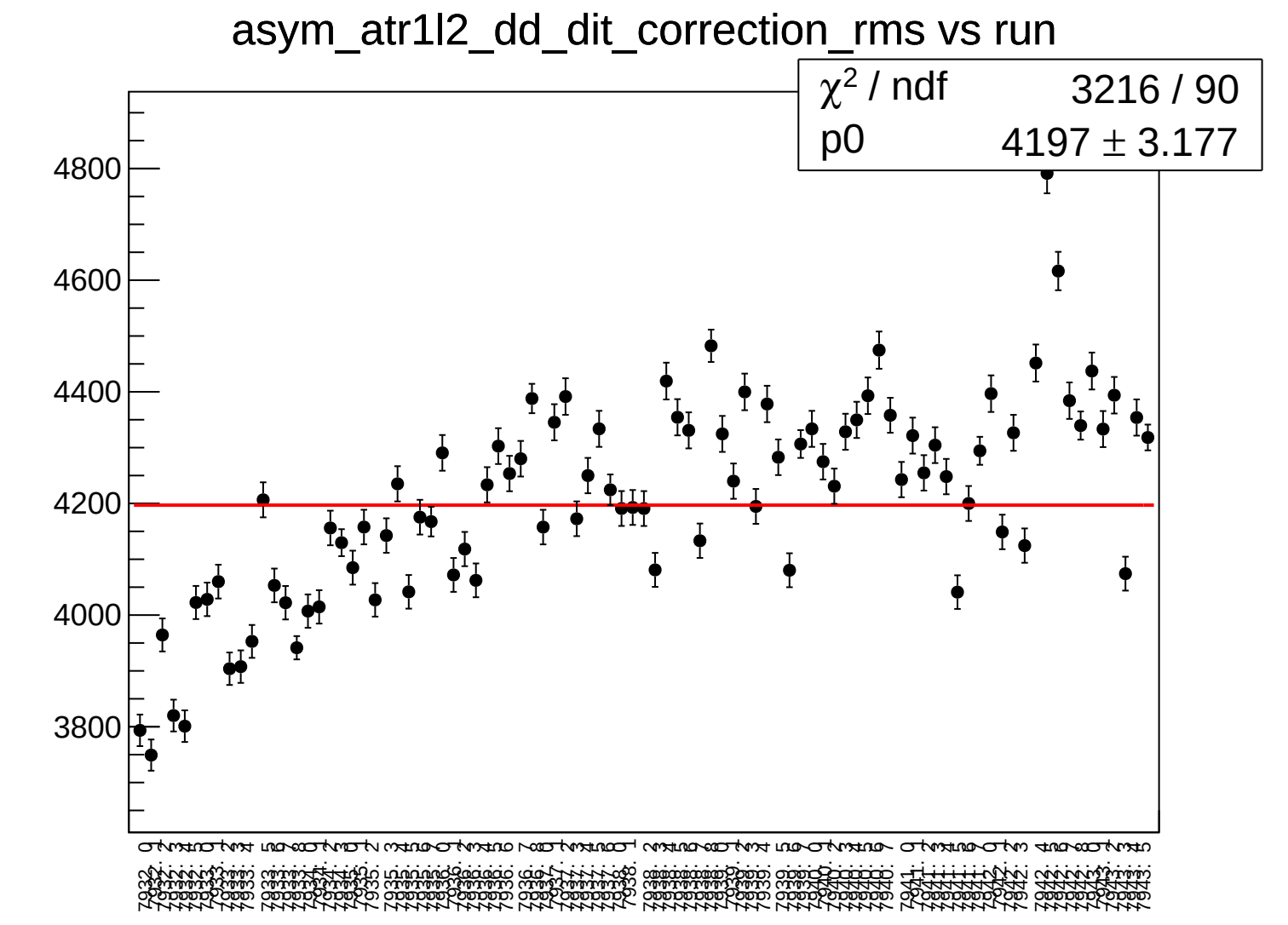

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 93.17 / 90
p0 1114 ± 1905
pull
Entries 91
Mean 14.21
Std Dev 150.4

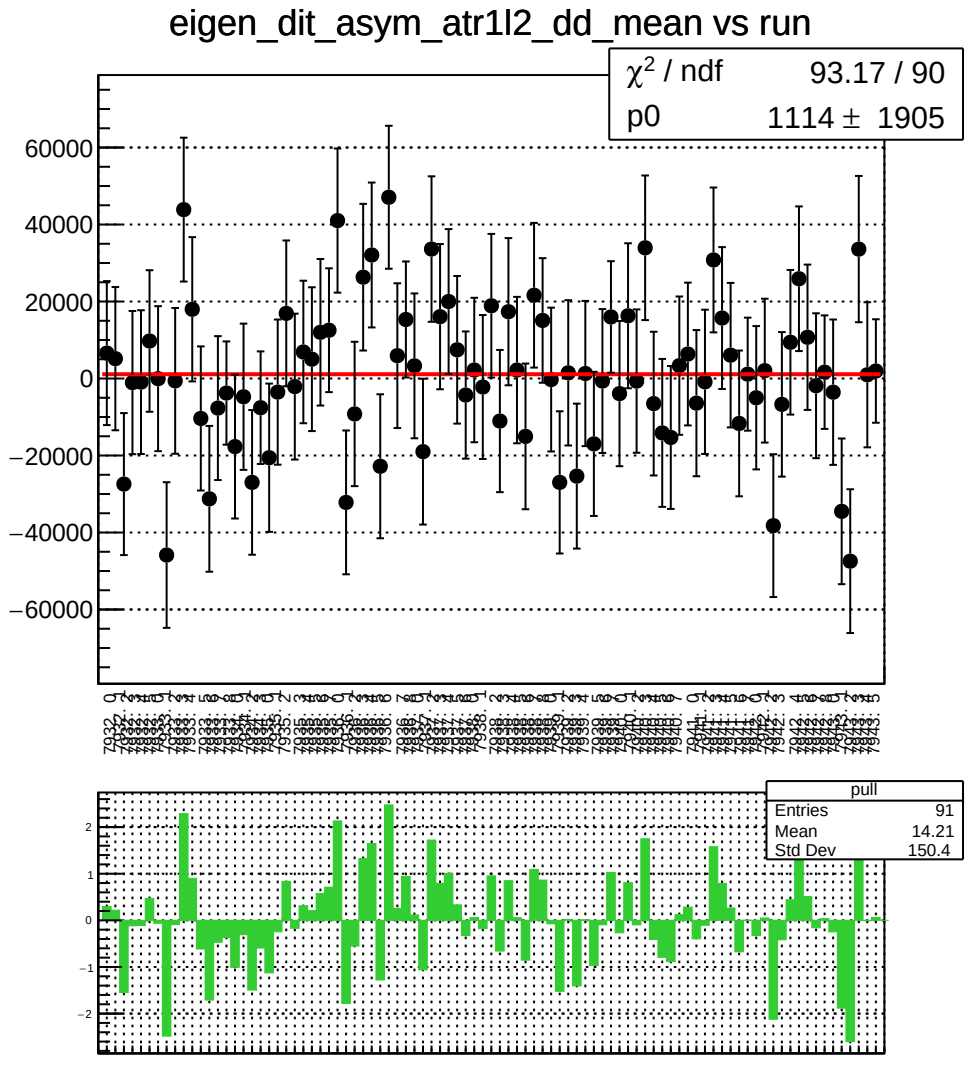

pull1D
Entries 91
Mean −0.004866
Std Dev 1.012

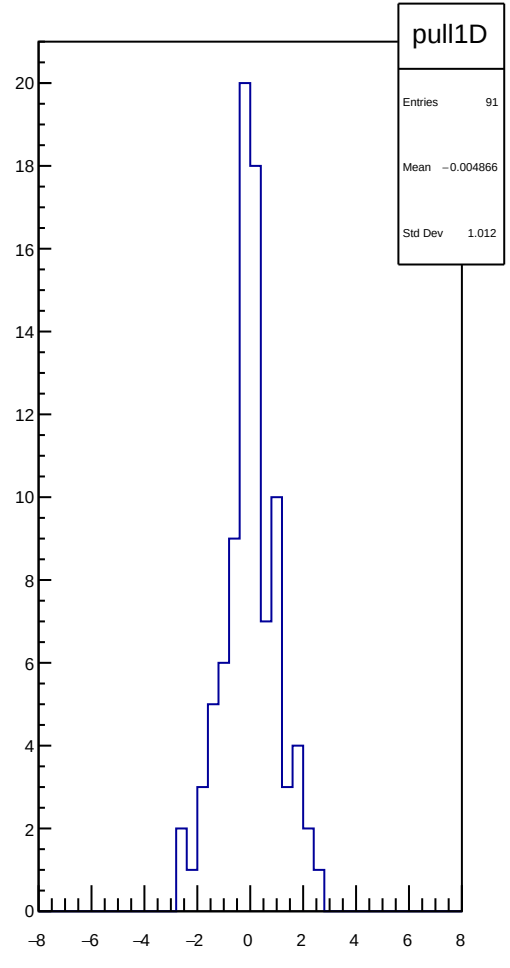

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 127.4 / 90
p0 1781 ± 1.347
1840
1820
1800
1780
1760
1740

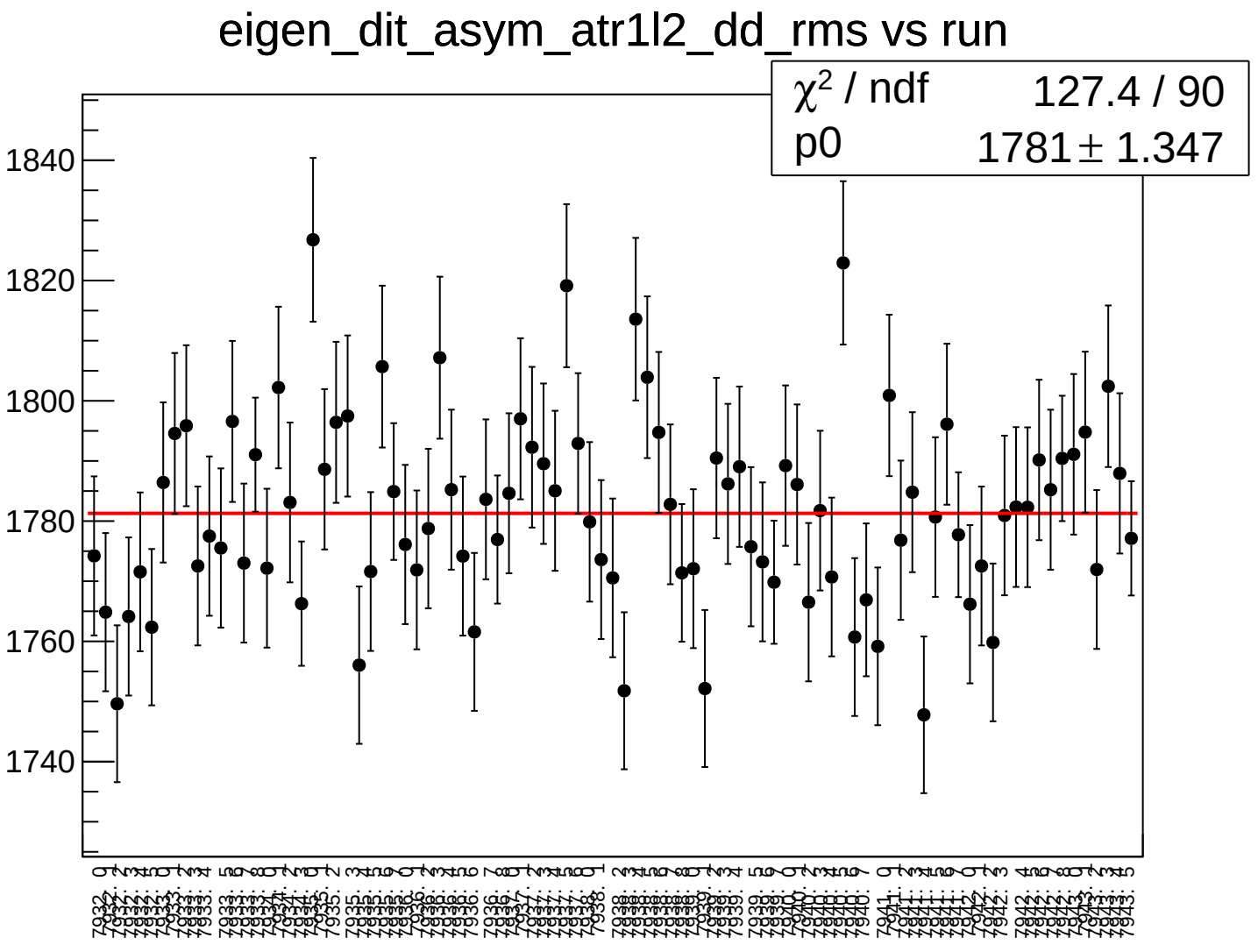

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1683 ± 4493
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −342.8
Std Dev 0
2
1
0
−1
−2
−3

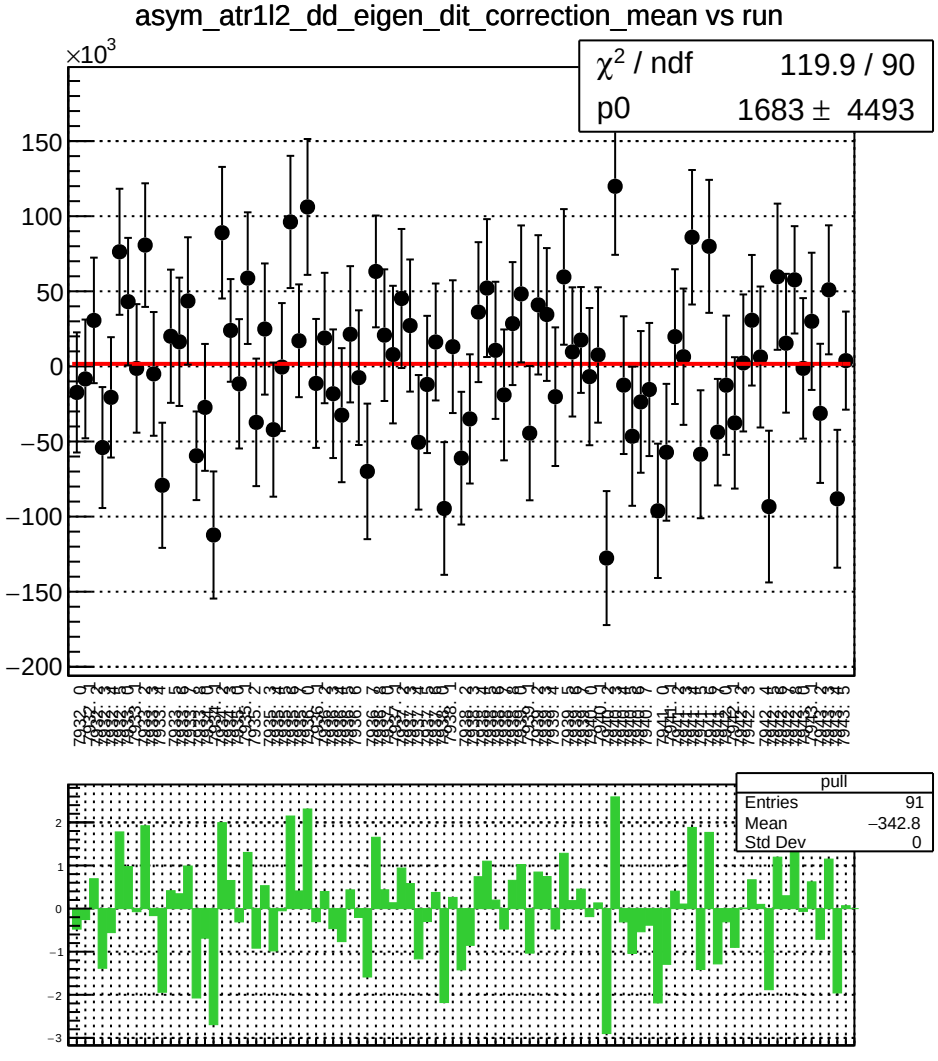

pull1D
Entries 91
Mean 0.003446
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

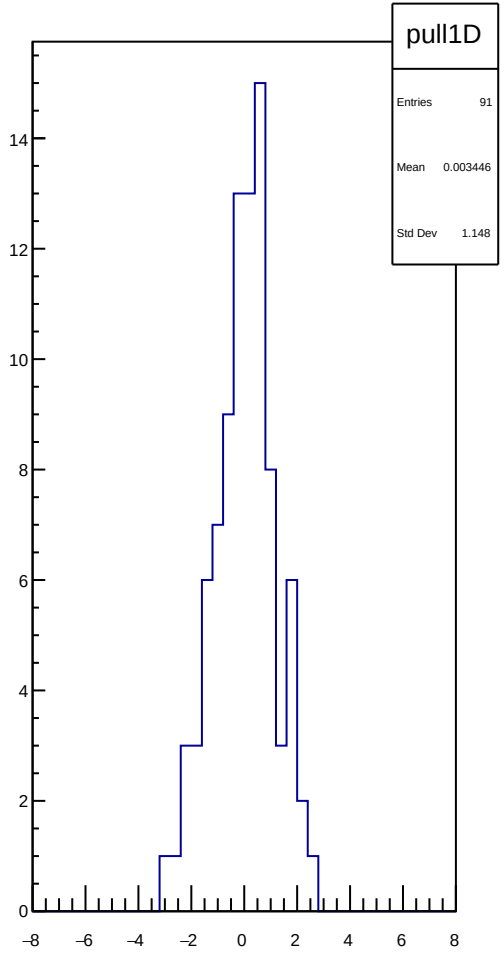

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3216 / 90
p0 4197 ± 3.177
4800
4600
4400
4200
4000
3800

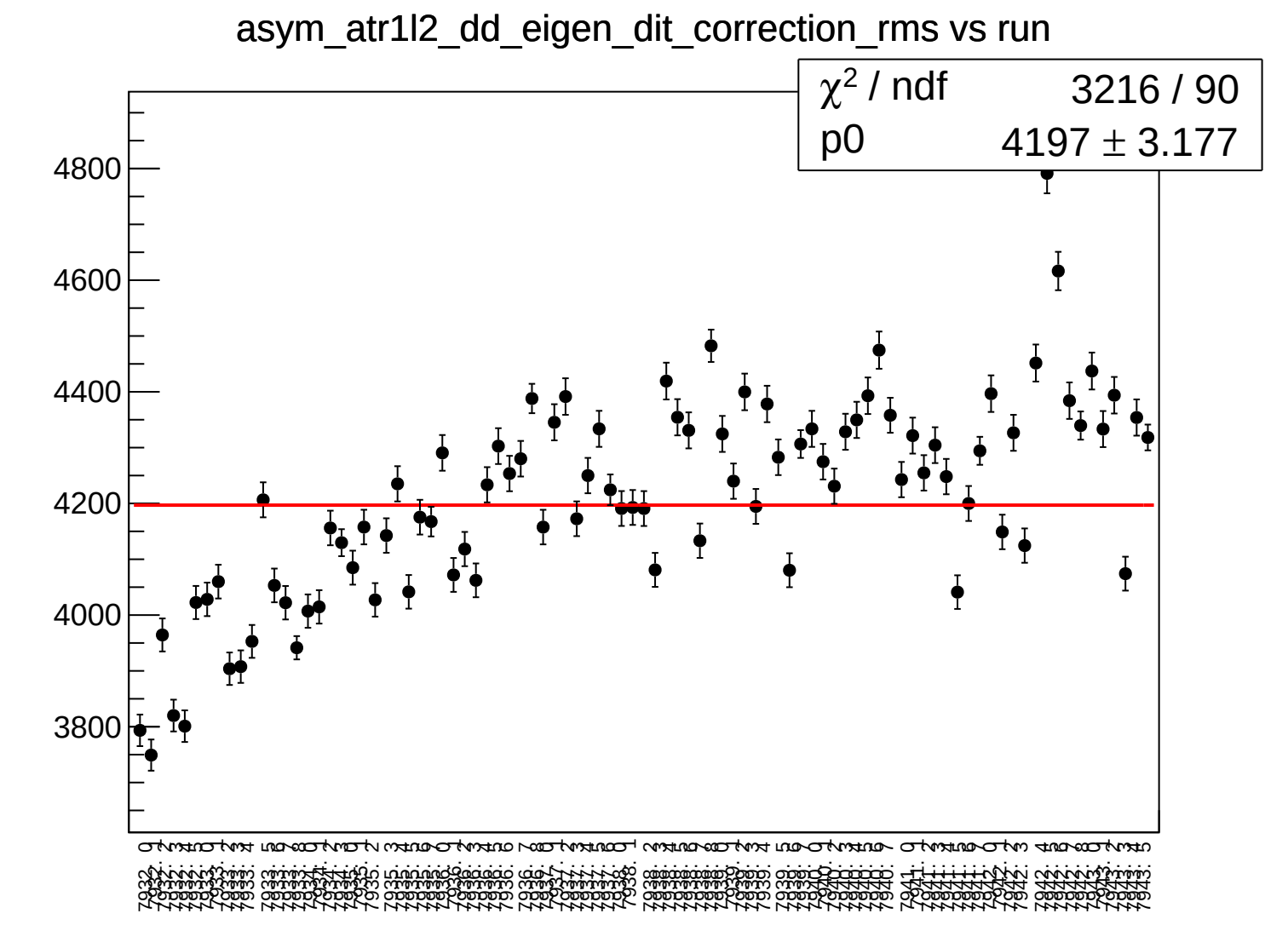

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 93.17 / 90
p0 1114 ± 1905
pull
Entries 91
Mean 14.21
Std Dev 150.4

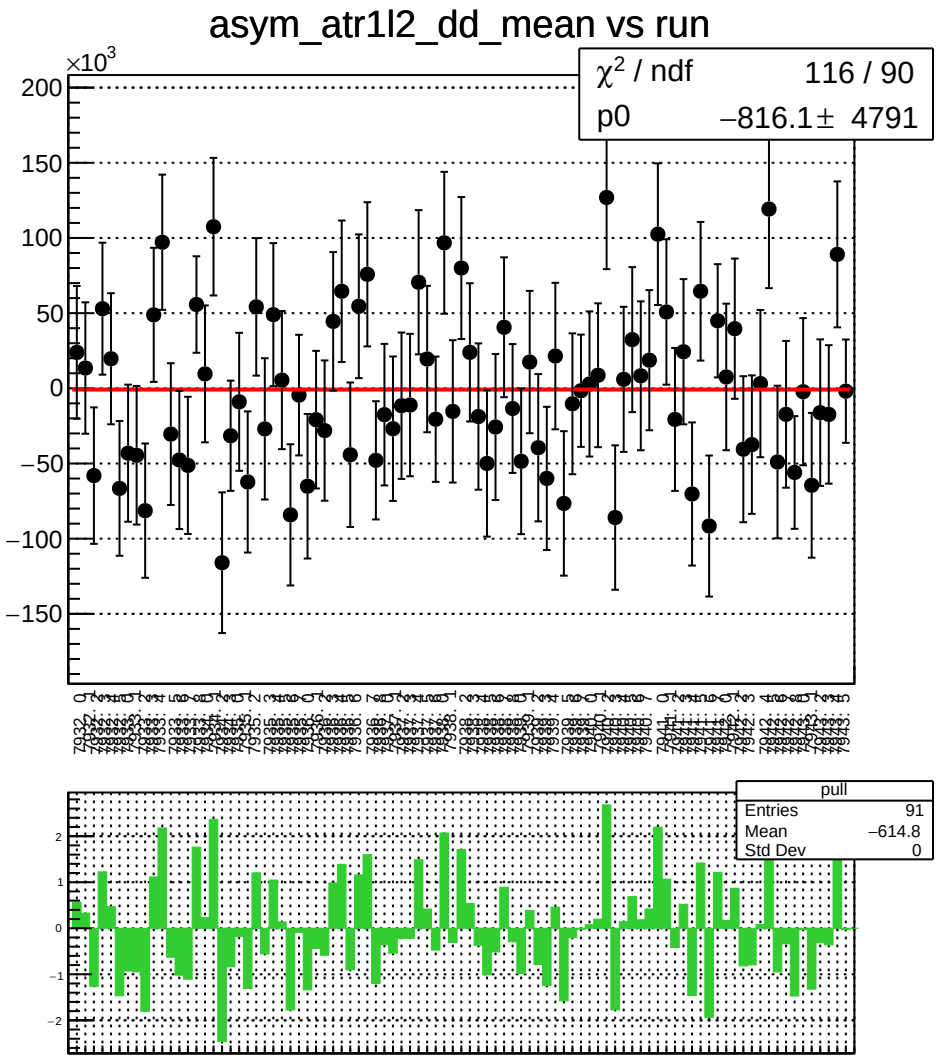

pull1D
Entries 91
Mean −0.004866
Std Dev 1.012

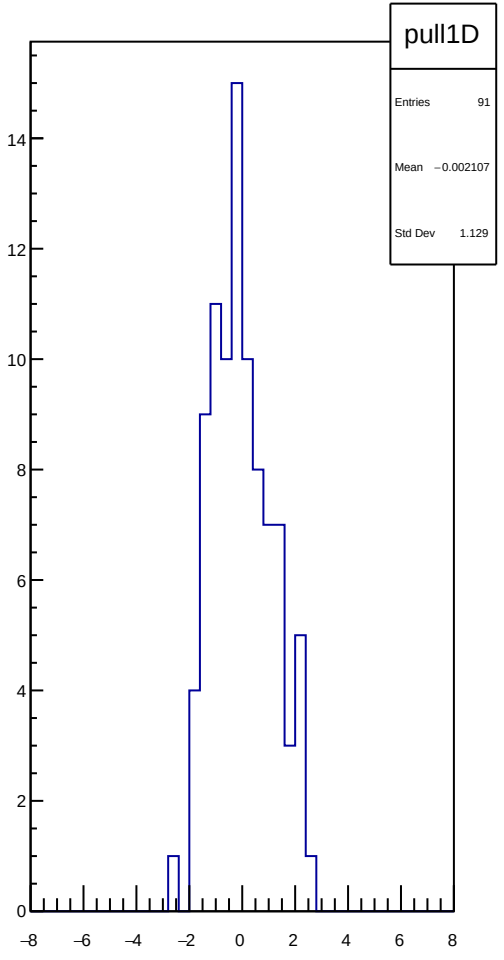

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 127.4 / 90
p0 1781 ± 1.347
1840
1820
1800
1780
1760
1740

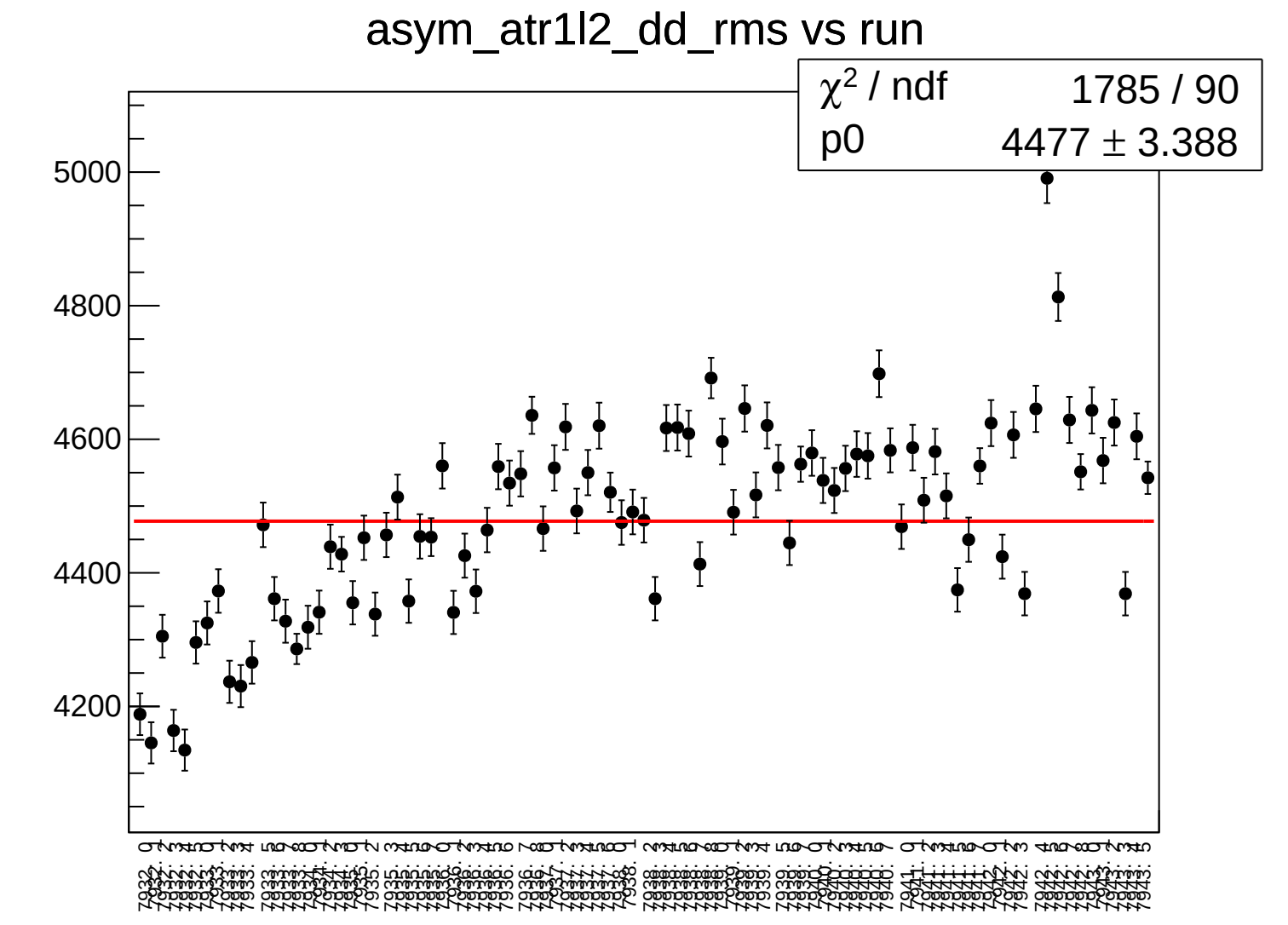

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 119.9 / 90
p0 1683 ± 4493
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −342.8
Std Dev 0
2
1
0
−1
−2
−3

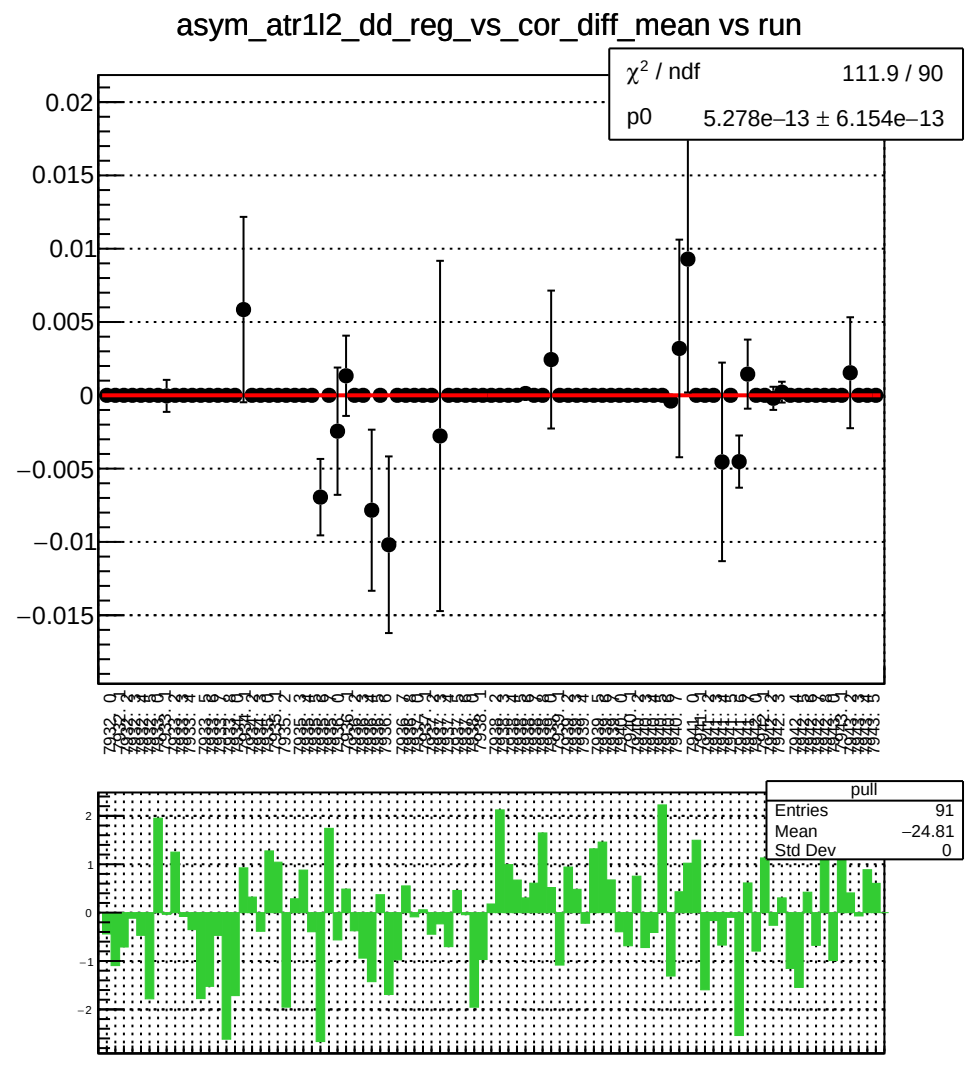

pull1D
Entries 91
Mean 0.003446
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

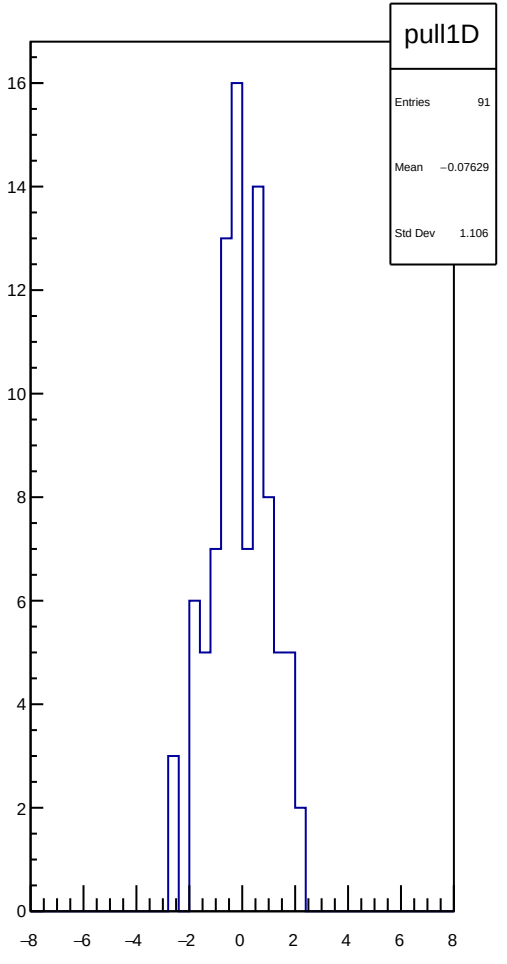

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3216 / 90
p0 4197 ± 3.177
4800
4600
4400
4200
4000
3800

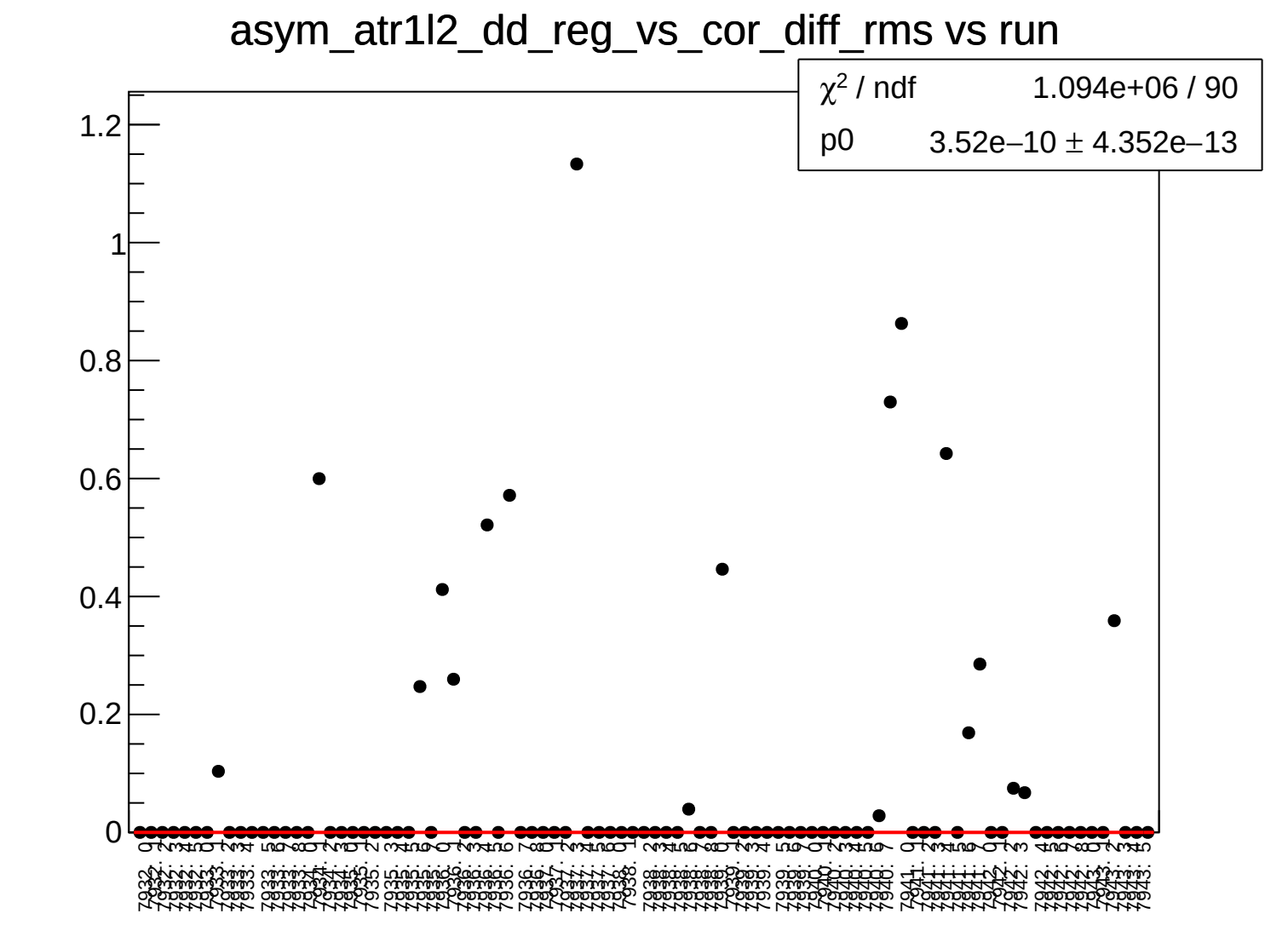

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 116 / 90
p0 −816.1± 4791
pull
Entries 91
Mean −614.8
Std Dev 0

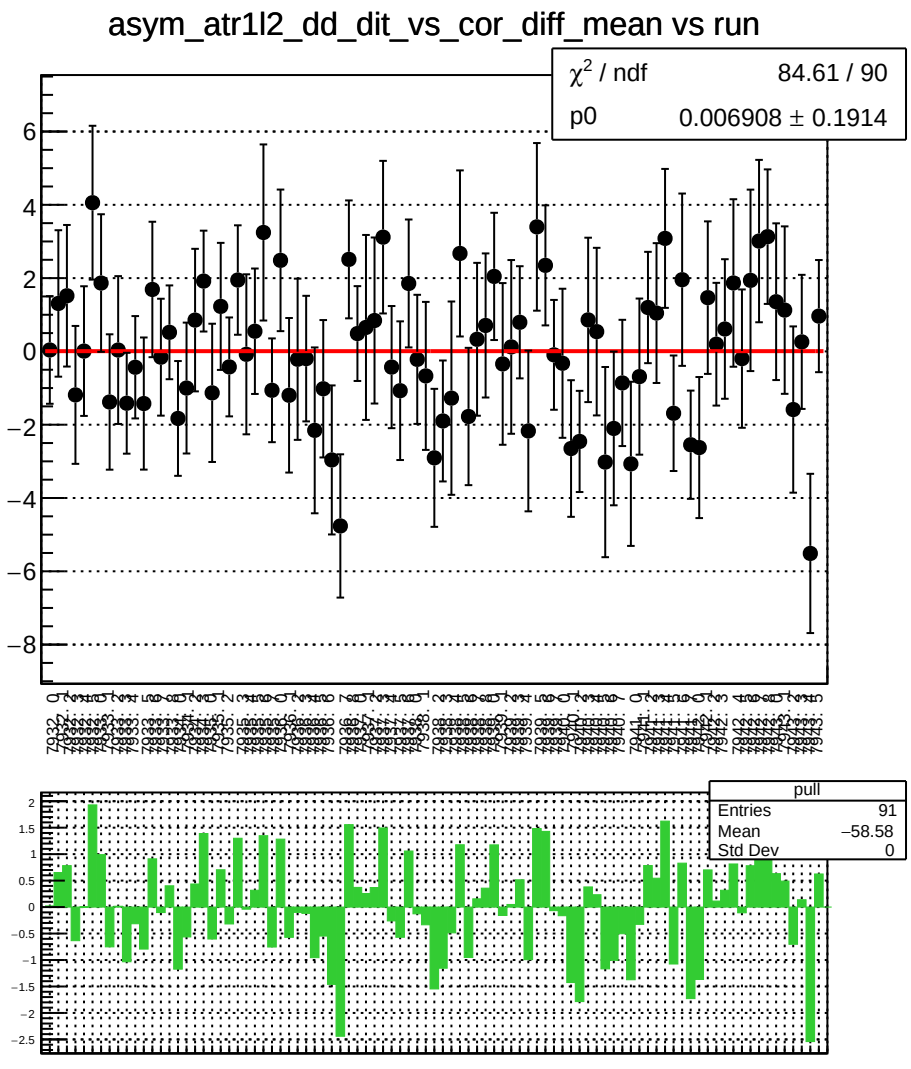

pull1D
Entries 91
Mean −0.002107
Std Dev 1.129

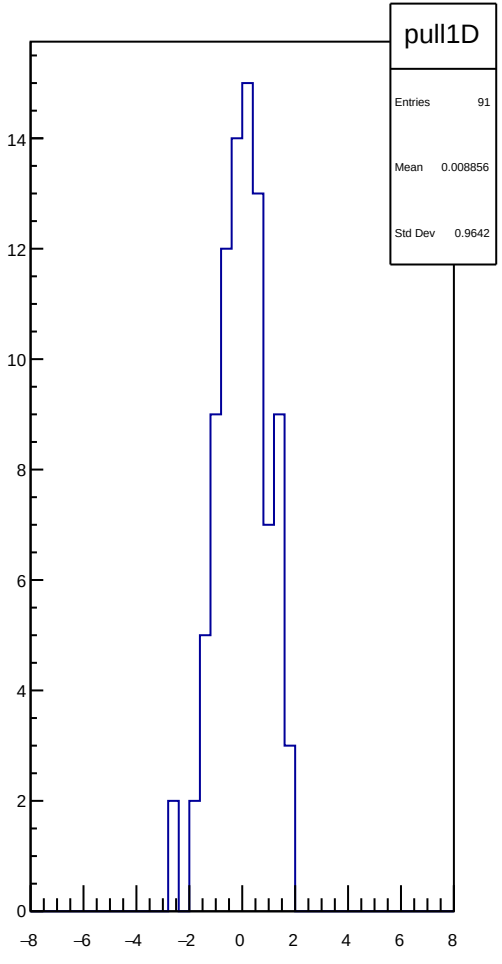

asym_atr1l2_dd_rms vs run
χ² / ndf 1785 / 90
p0 4477 ± 3.388
5000
4800
4600
4400
4200

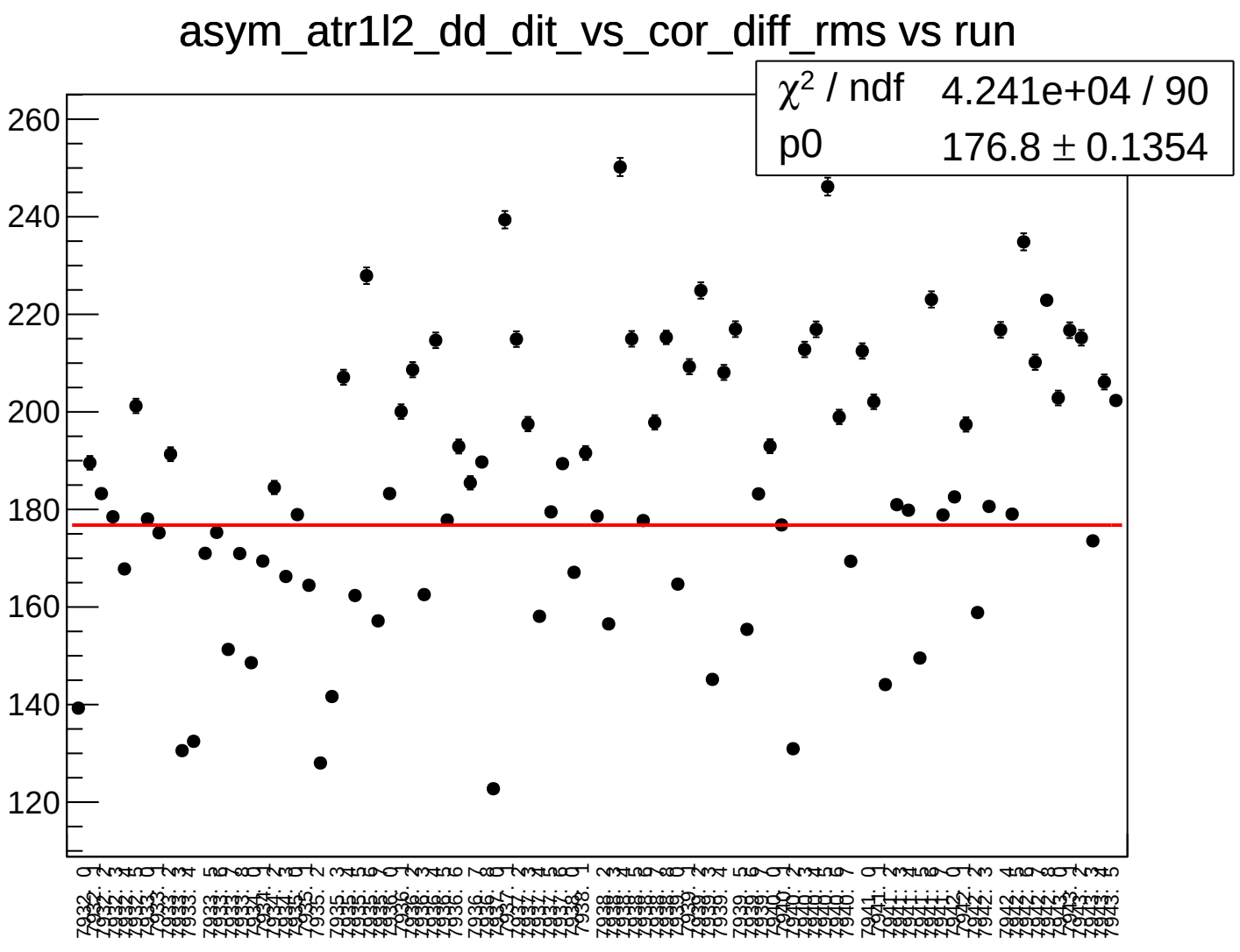

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.9 / 90
p0 5.278e−13 ± 6.154e−13
pull
Entries 91
Mean −24.81
Std Dev 0

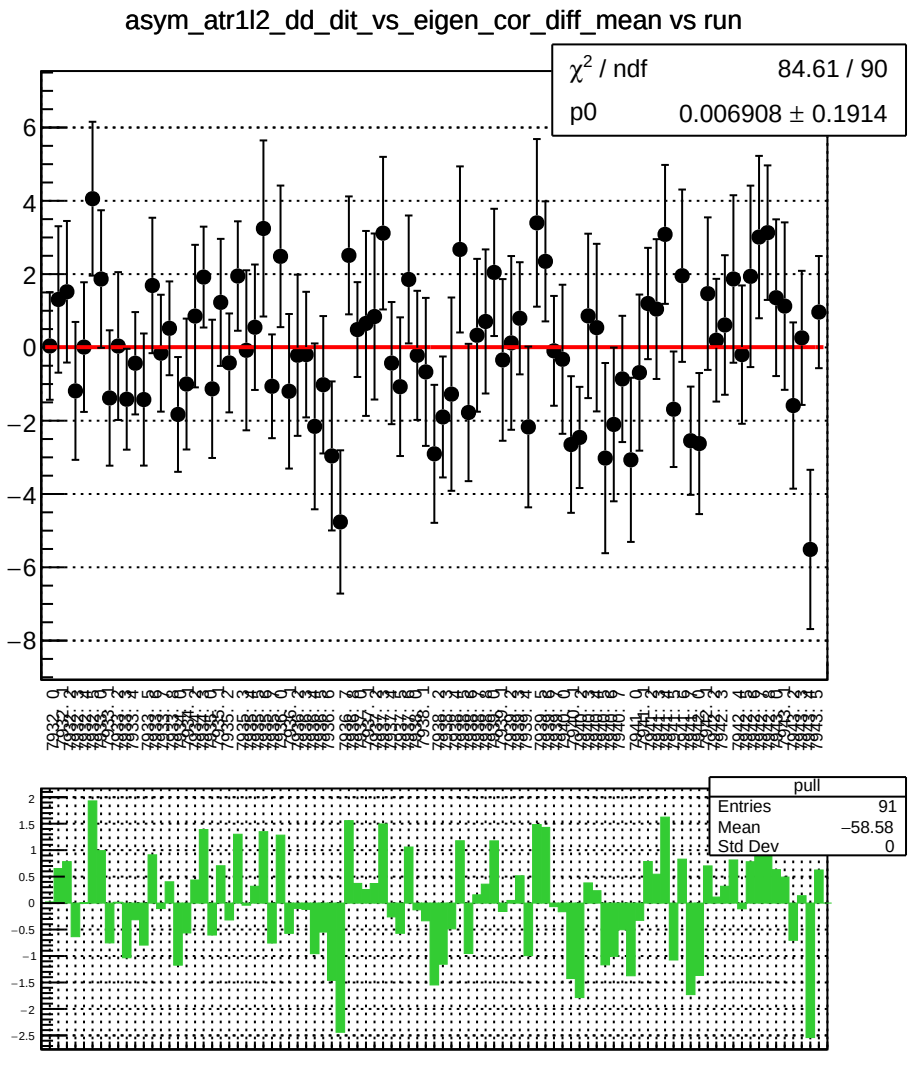

pull1D
Entries 91
Mean −0.07629
Std Dev 1.106

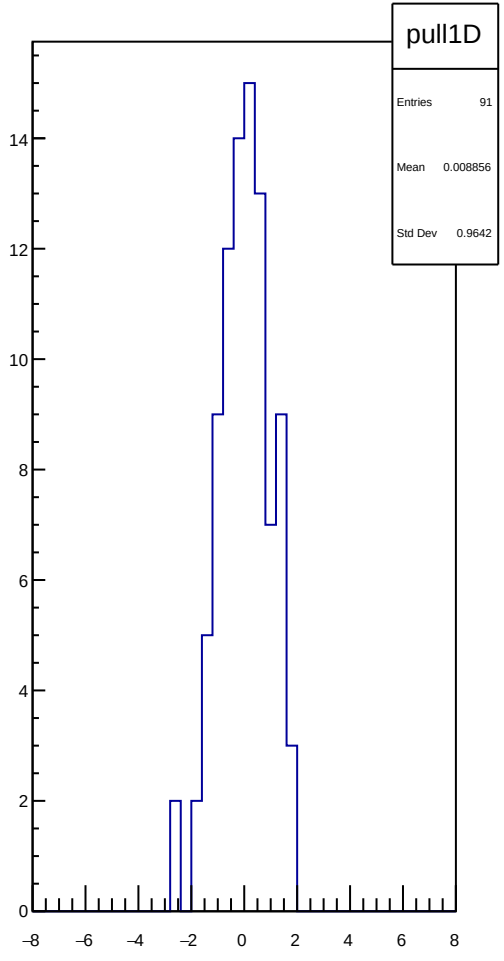

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 90
p0 3.52e−10 ± 4.352e−13
1.2
1
0.8
0.6
0.4
0.2
0

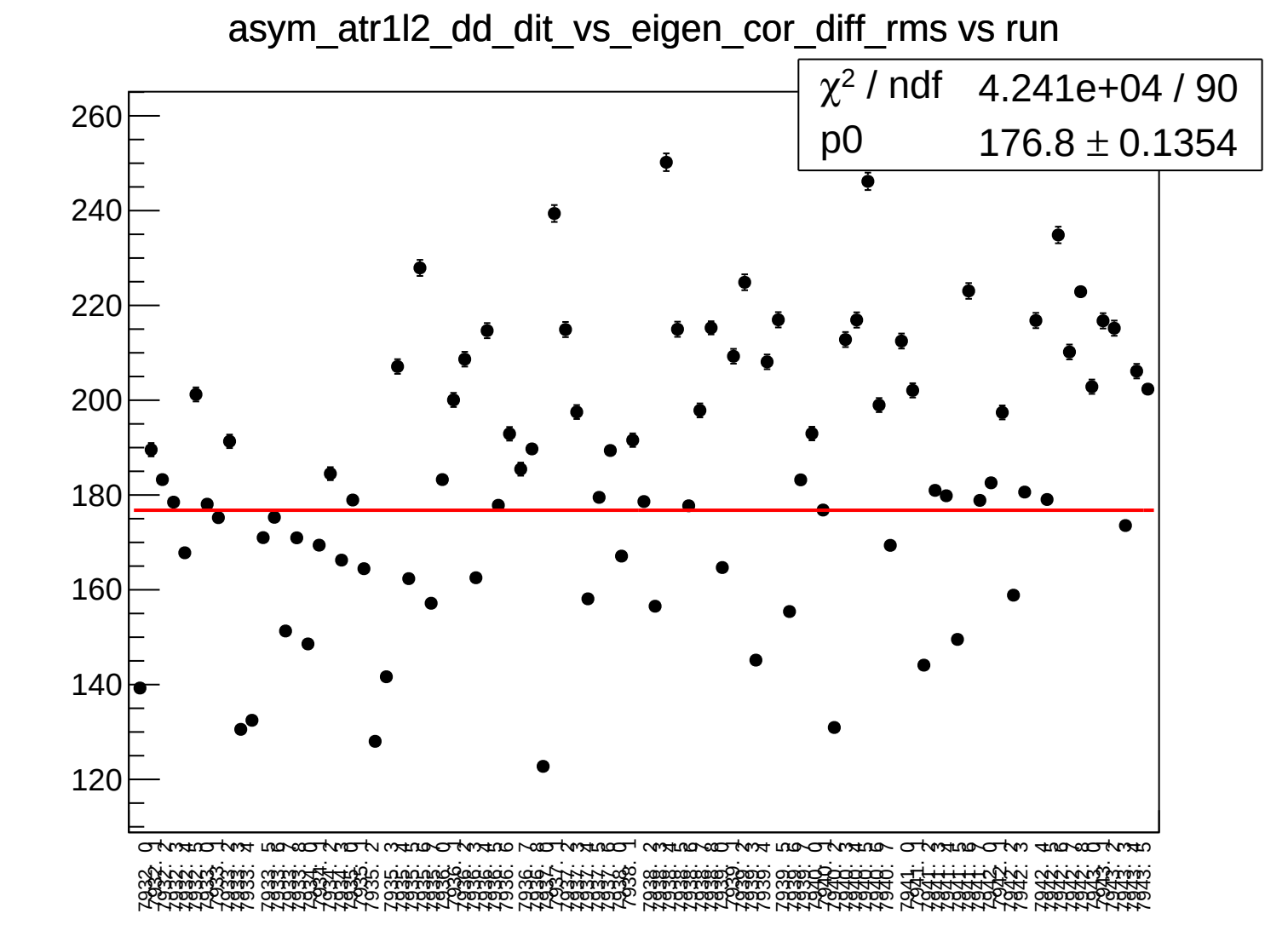

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.61 / 90
p0 0.006908 ± 0.1914
pull
Entries 91
Mean −58.58
Std Dev 0

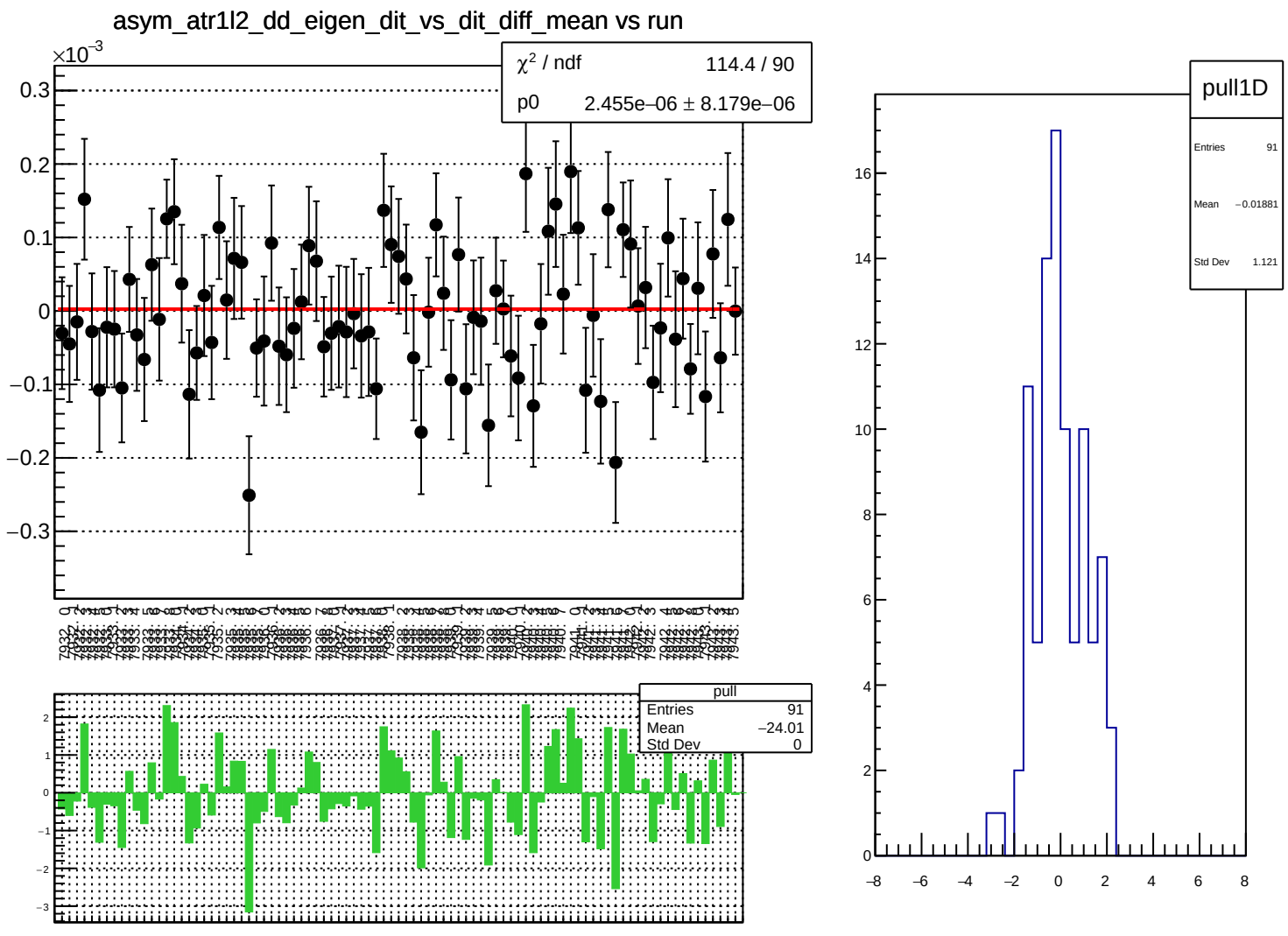

pull1D
Entries 91
Mean 0.008856
Std Dev 0.9642

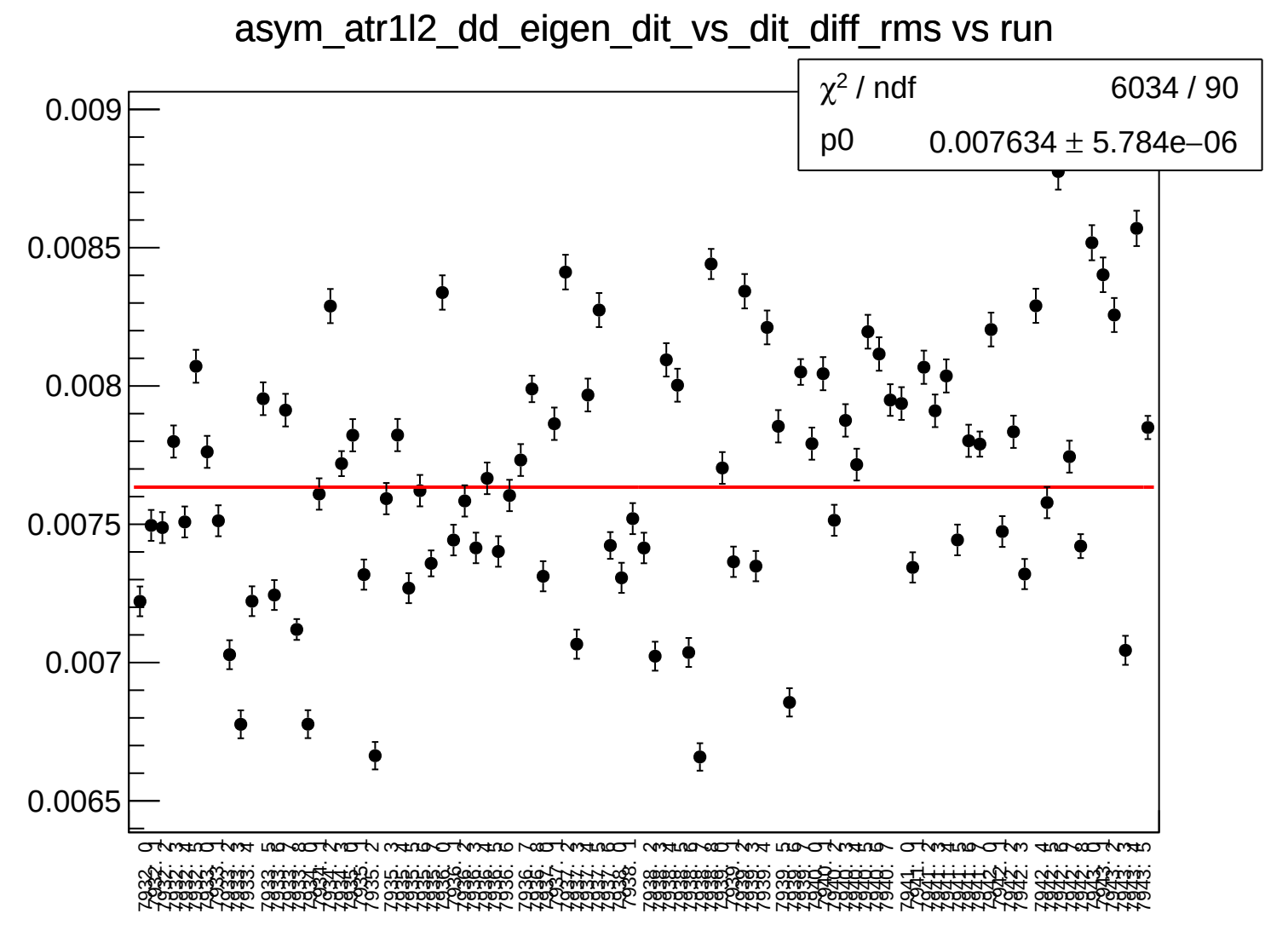

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.241e+04 / 90
p0 176.8 ± 0.1354
260
240
220
200
180
160
140
120

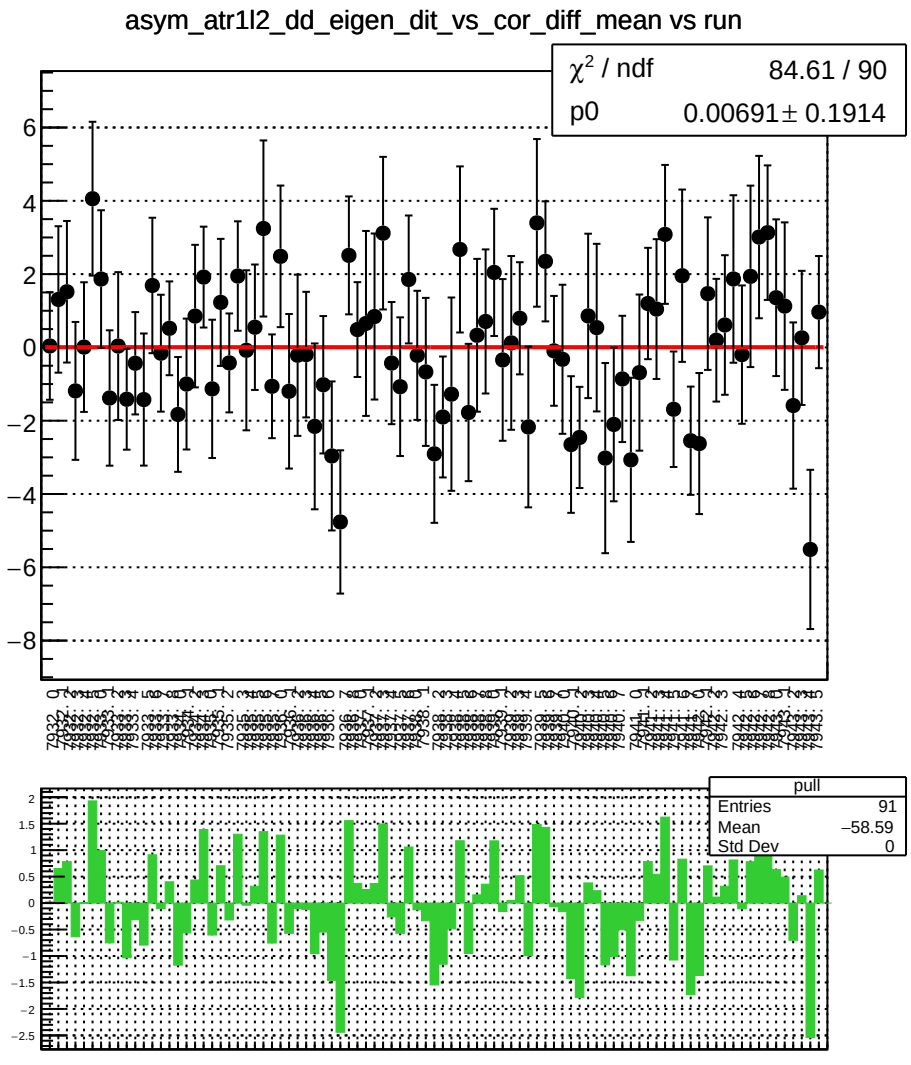

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.61 / 90
p0 0.006908 ± 0.1914
pull
Entries 91
Mean −58.58
Std Dev 0

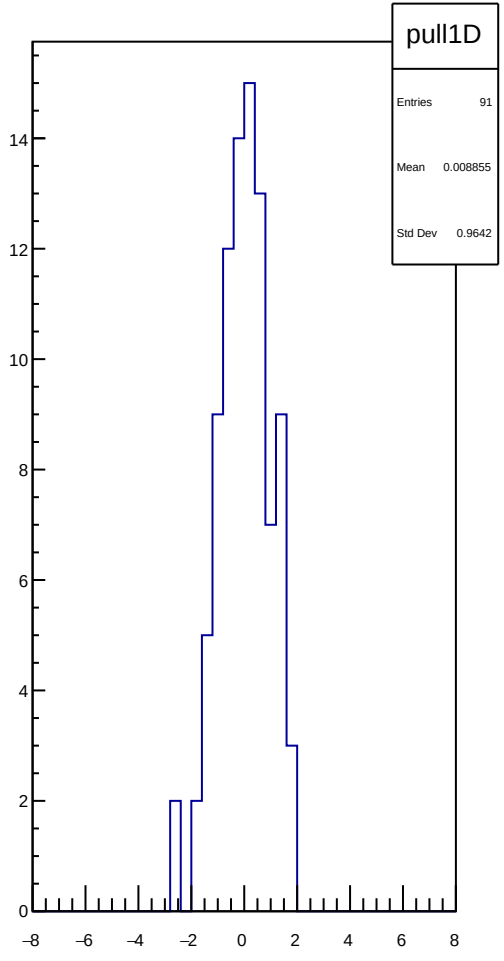

pull1D
Entries 91
Mean 0.008856
Std Dev 0.9642

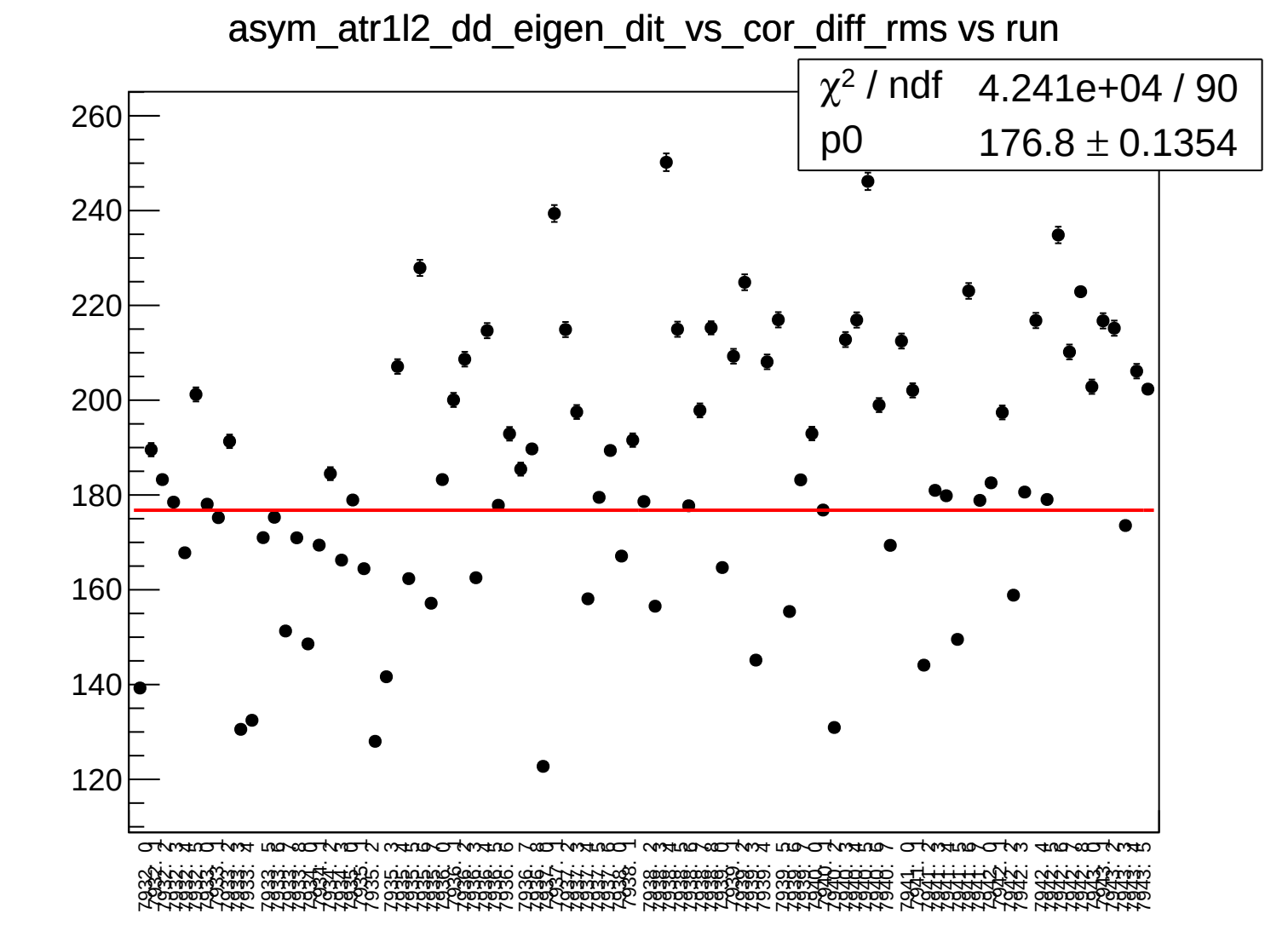

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.241e+04 / 90
p0 176.8 ± 0.1354
260
240
220
200
180
160
140
120

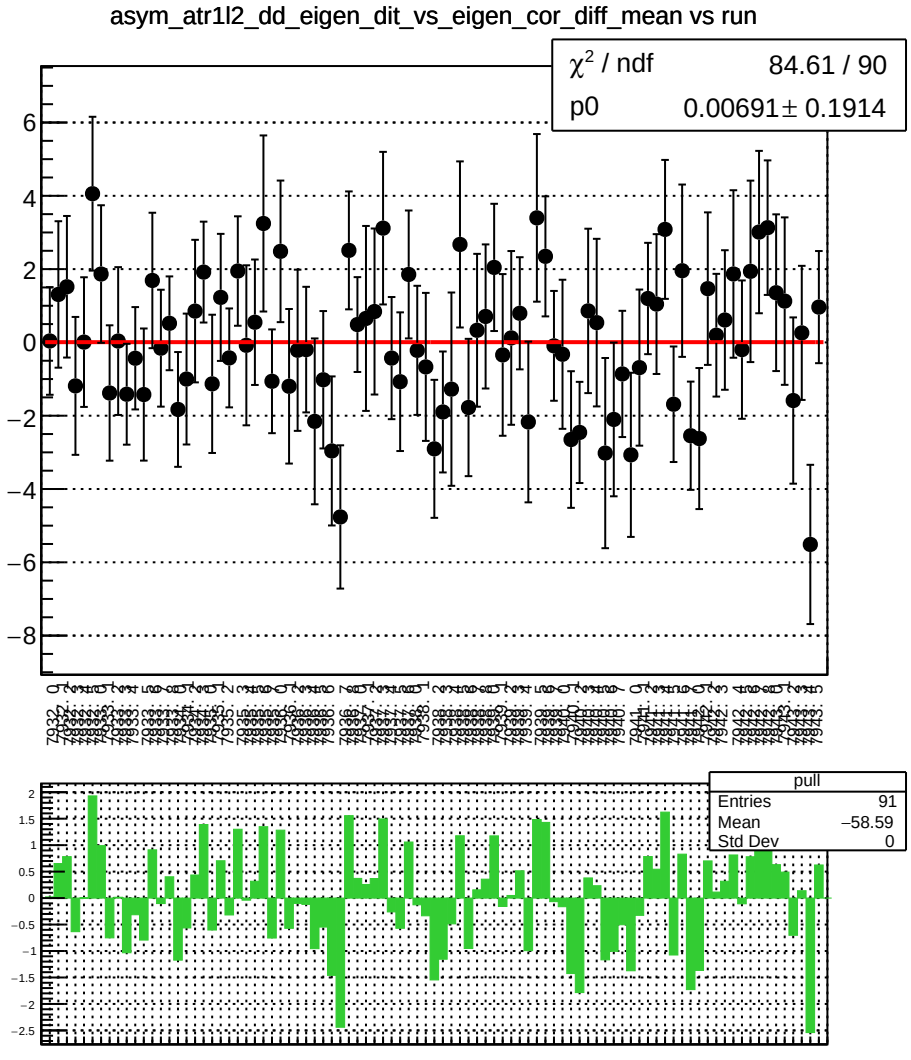

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.4 / 90
p0 2.455e−06 ± 8.179e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 91
Mean −24.01
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01881
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

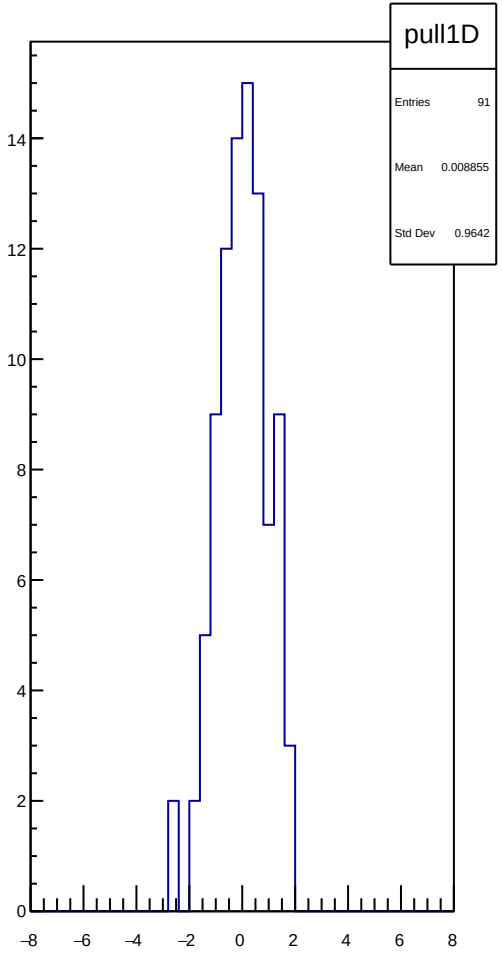

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6034 / 90
p0 0.007634 ± 5.784e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

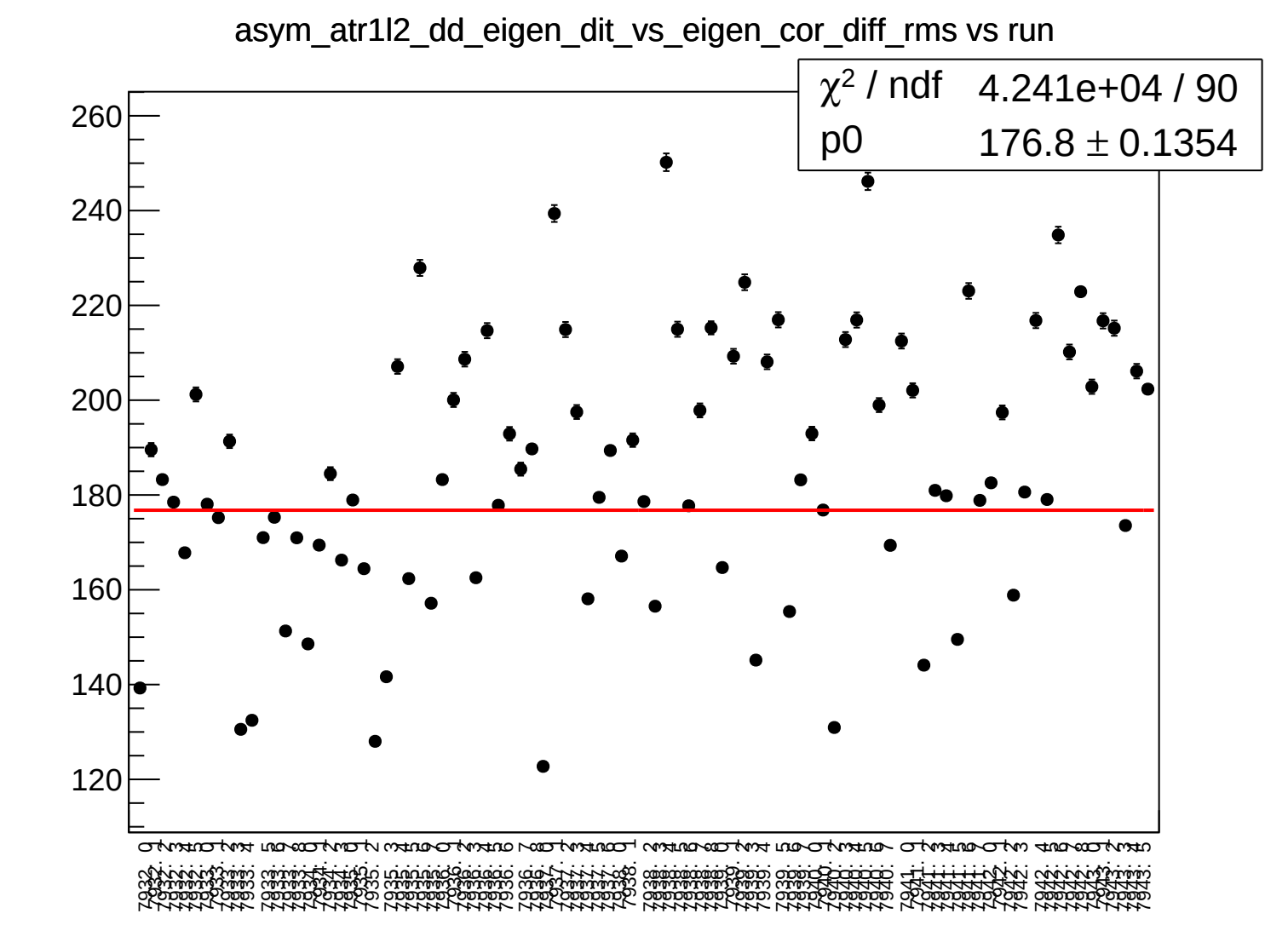

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.61 / 90
p0 0.00691 ± 0.1914
pull
Entries 91
Mean −58.59
Std Dev 0

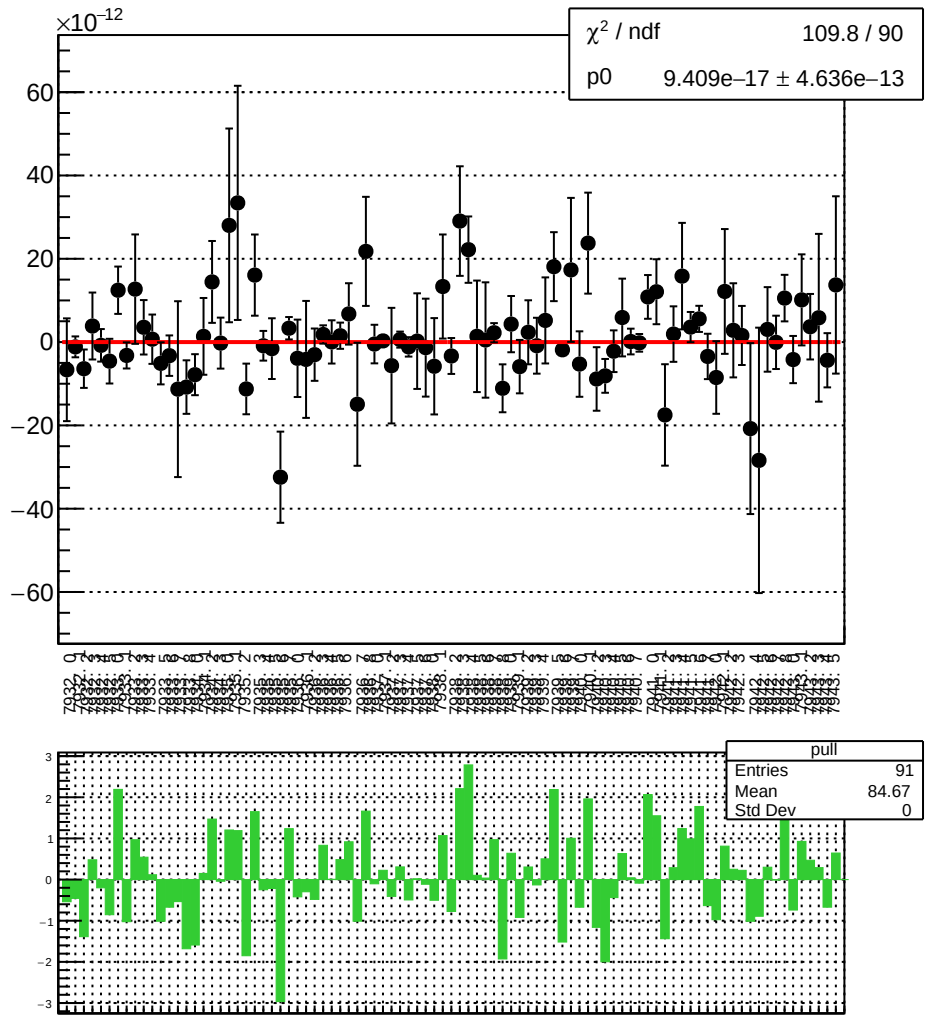

pull1D
Entries 91
Mean 0.008855
Std Dev 0.9642

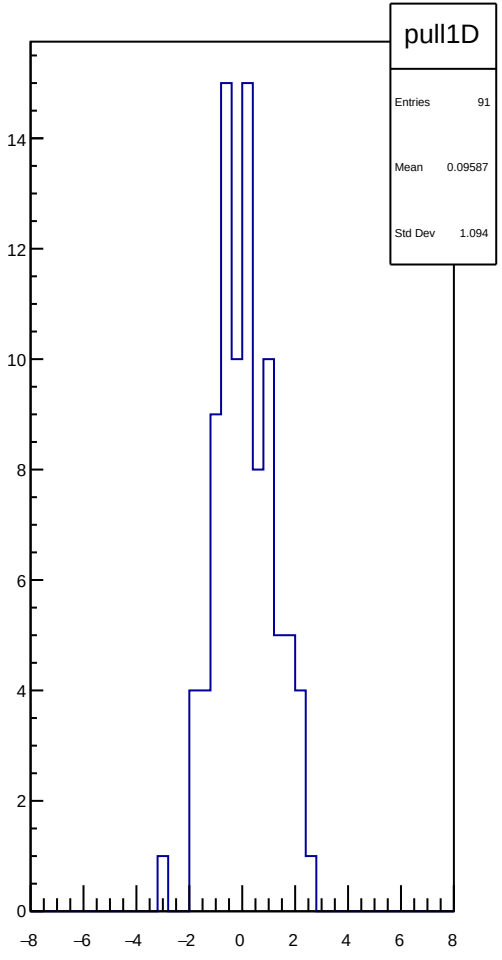

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.241e+04 / 90
p0 176.8 ± 0.1354
260
240
220
200
180
160
140
120

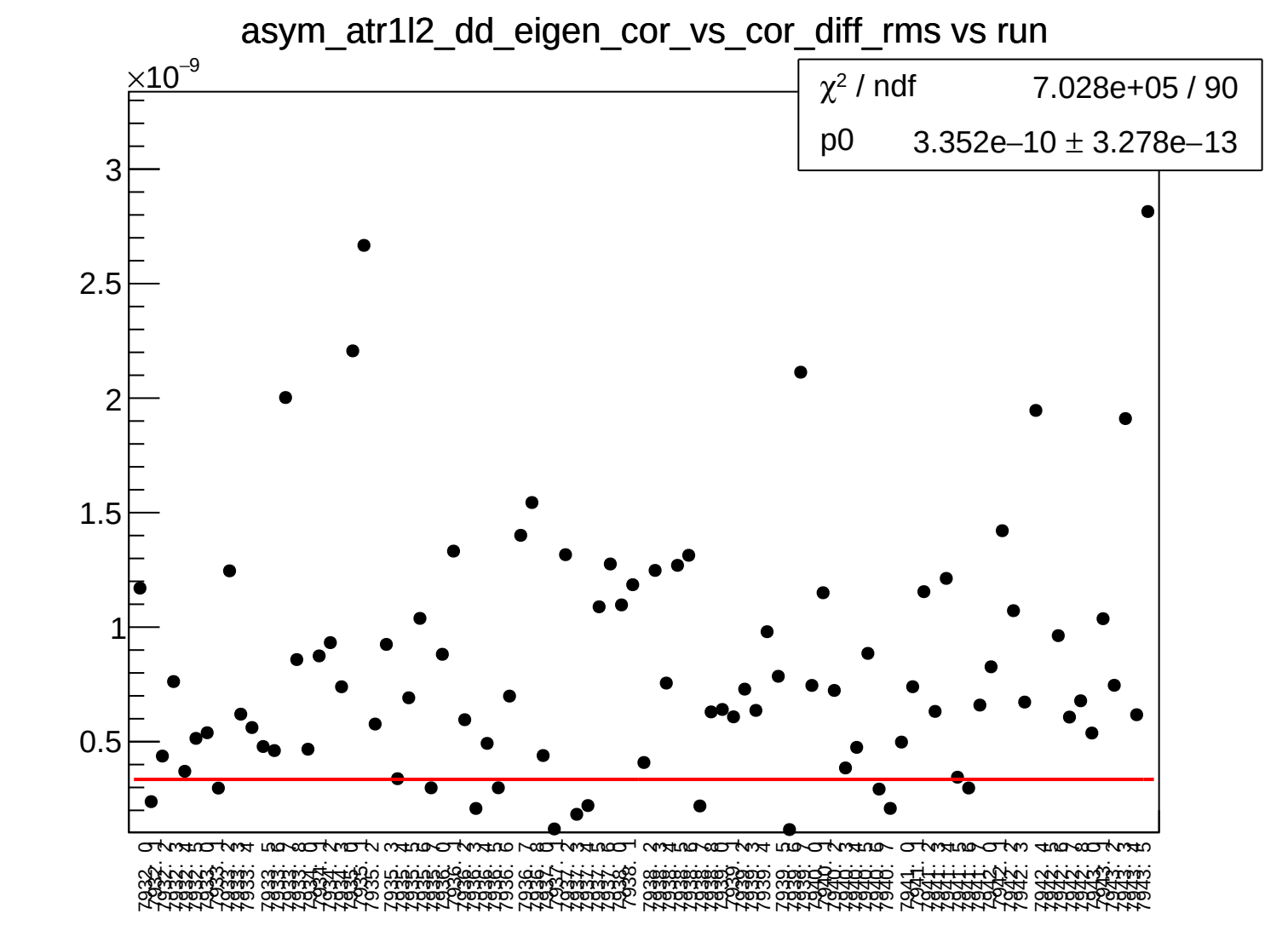

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.61 / 90
p0 0.00691 ± 0.1914
pull
Entries 91
Mean −58.59
Std Dev 0

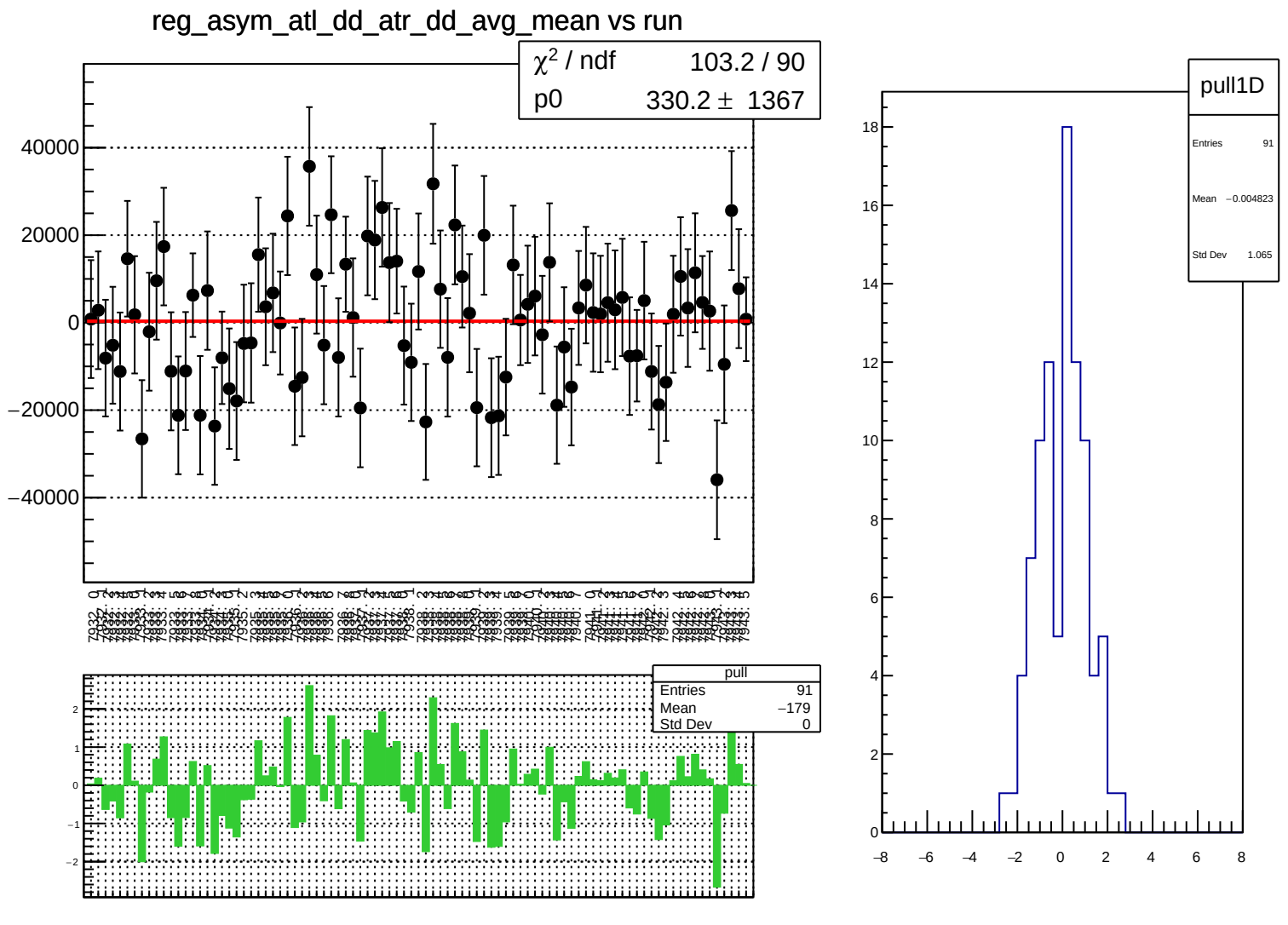

pull1D
Entries 91
Mean 0.008855
Std Dev 0.9642

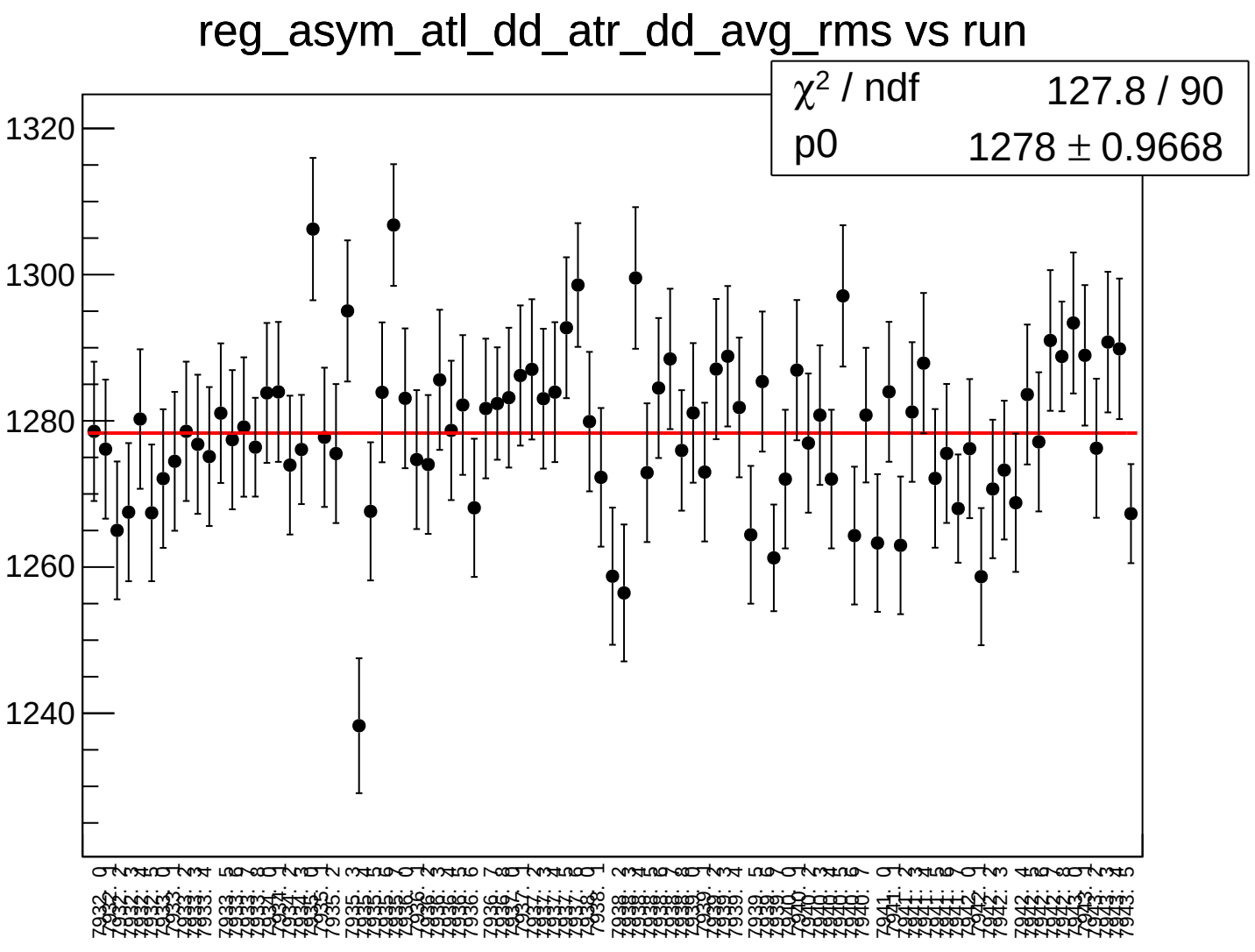

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.241e+04 / 90
p0 176.8 ± 0.1354
260
240
220
200
180
160
140
120

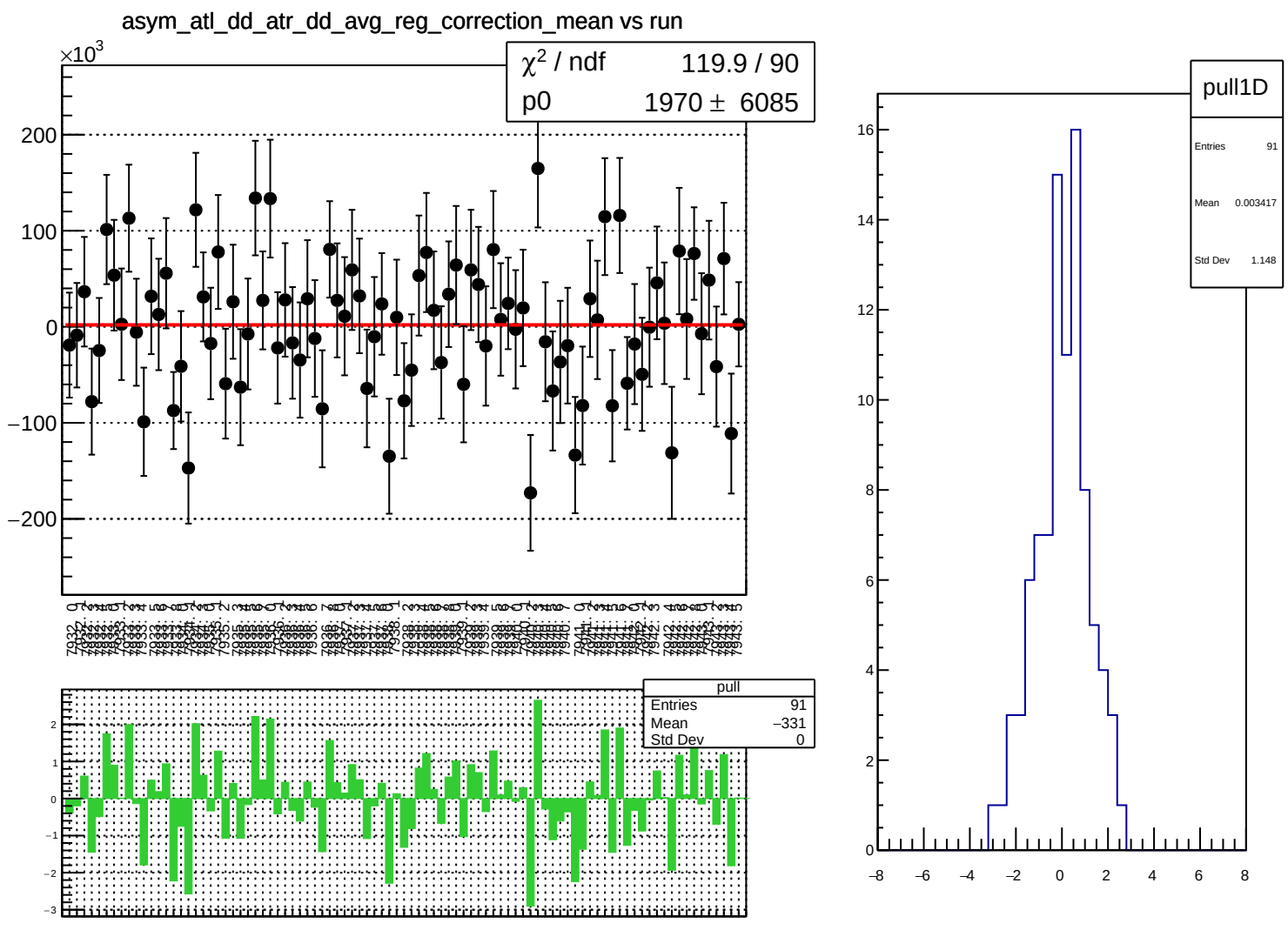

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.8 / 90
p0 9.409e−17 ± 4.636e−13
pull
Entries 91
Mean 84.67
Std Dev 0

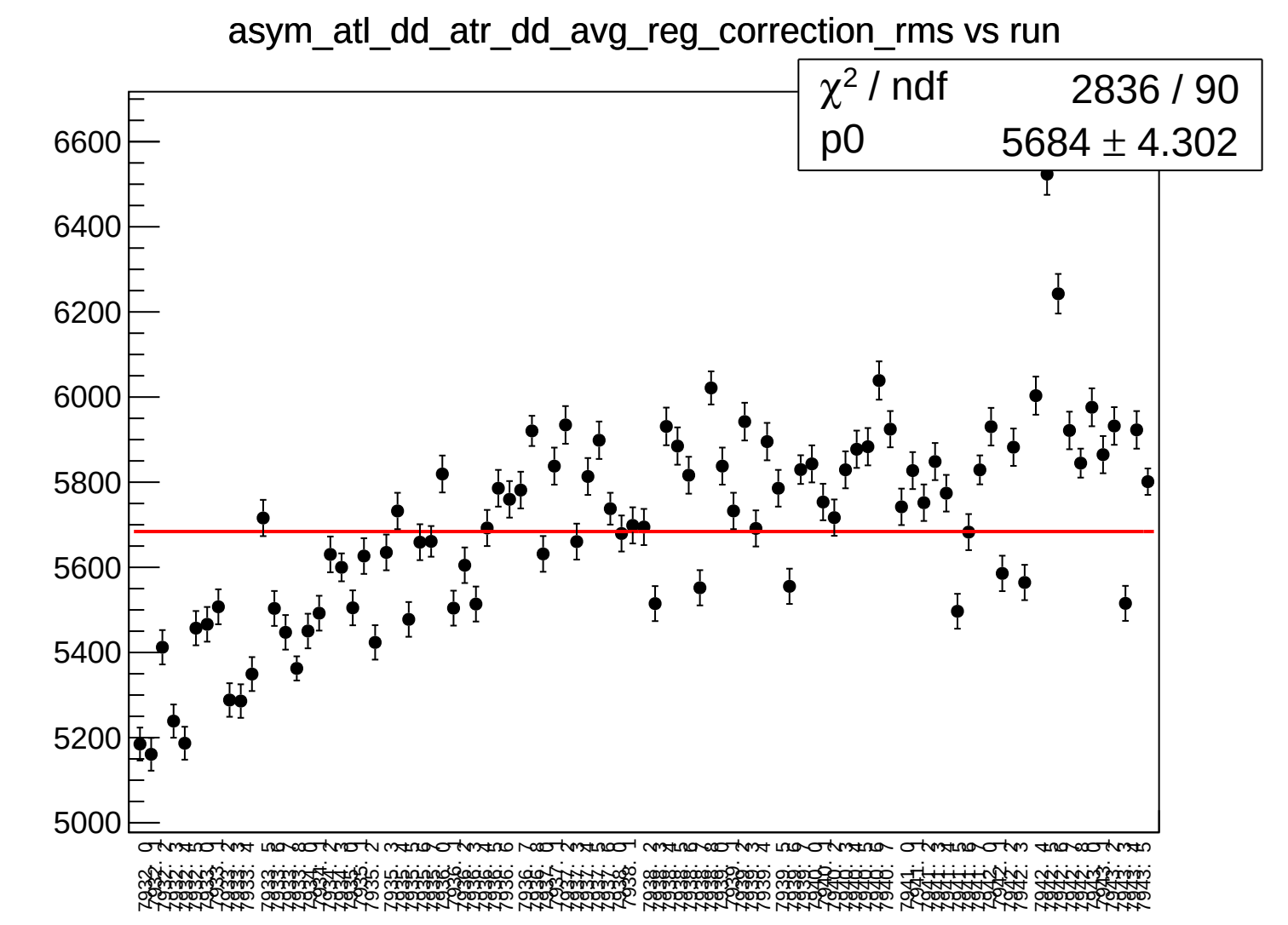

pull1D
Entries 91
Mean 0.09587
Std Dev 1.094

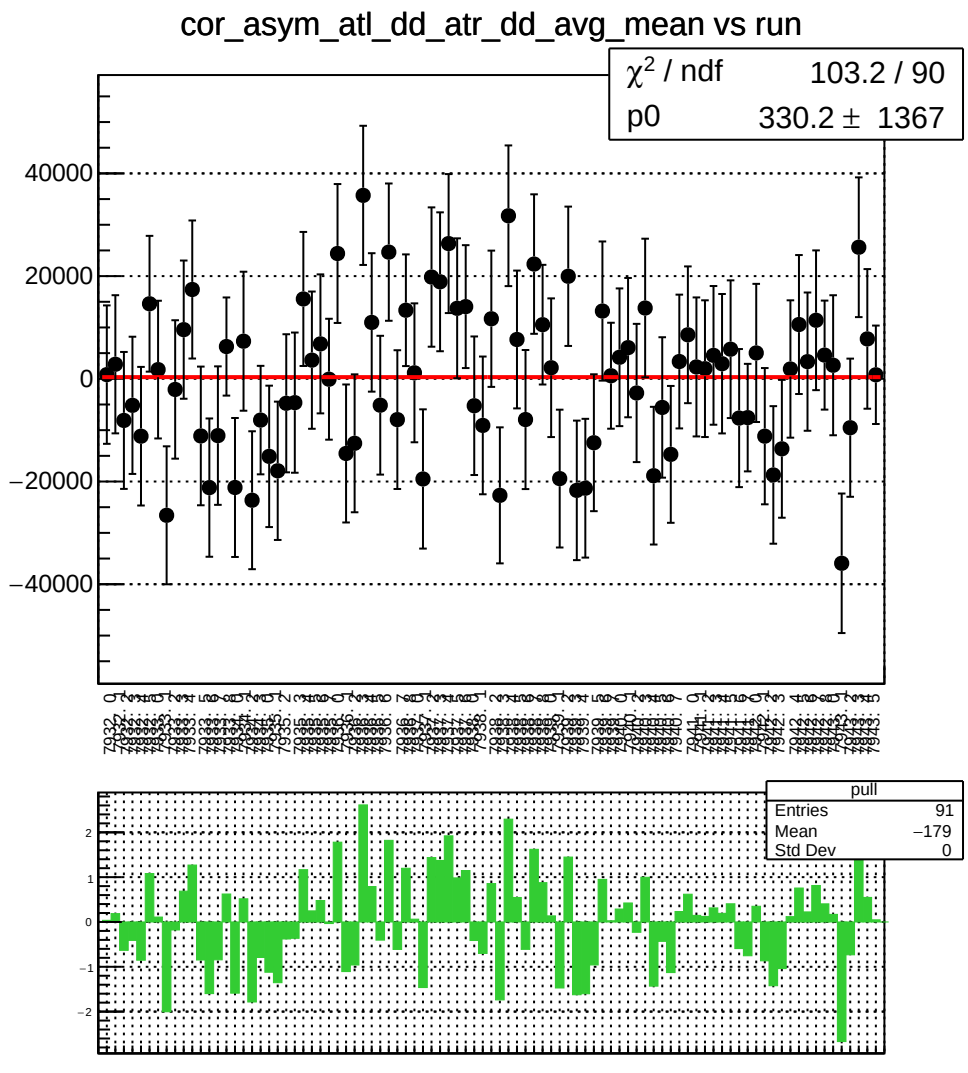

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.028e+05 / 90
p0 3.352e−10 ± 3.278e−13
3
2.5
2
1.5
1
0.5

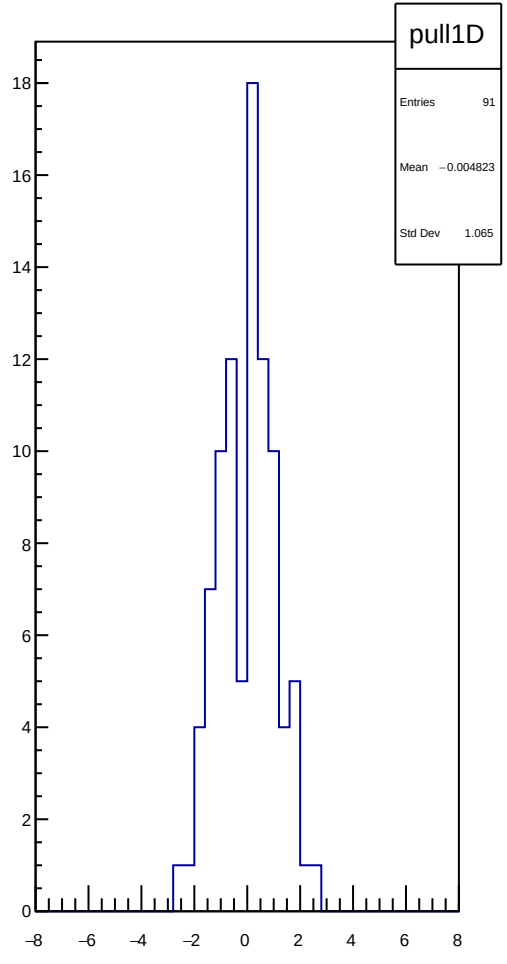

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
pull1D
Entries 91
Mean −0.004823
Std Dev 1.065

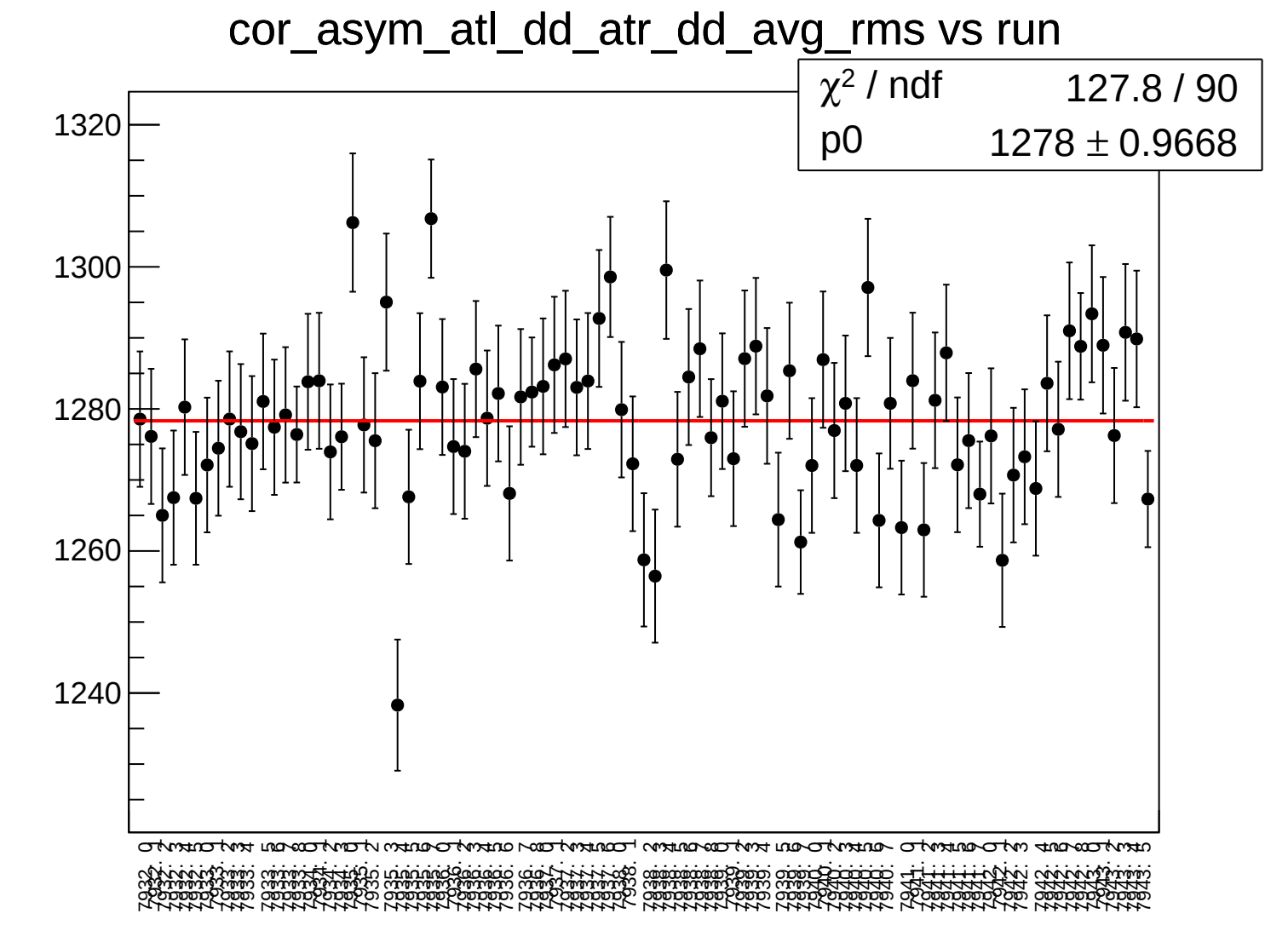

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

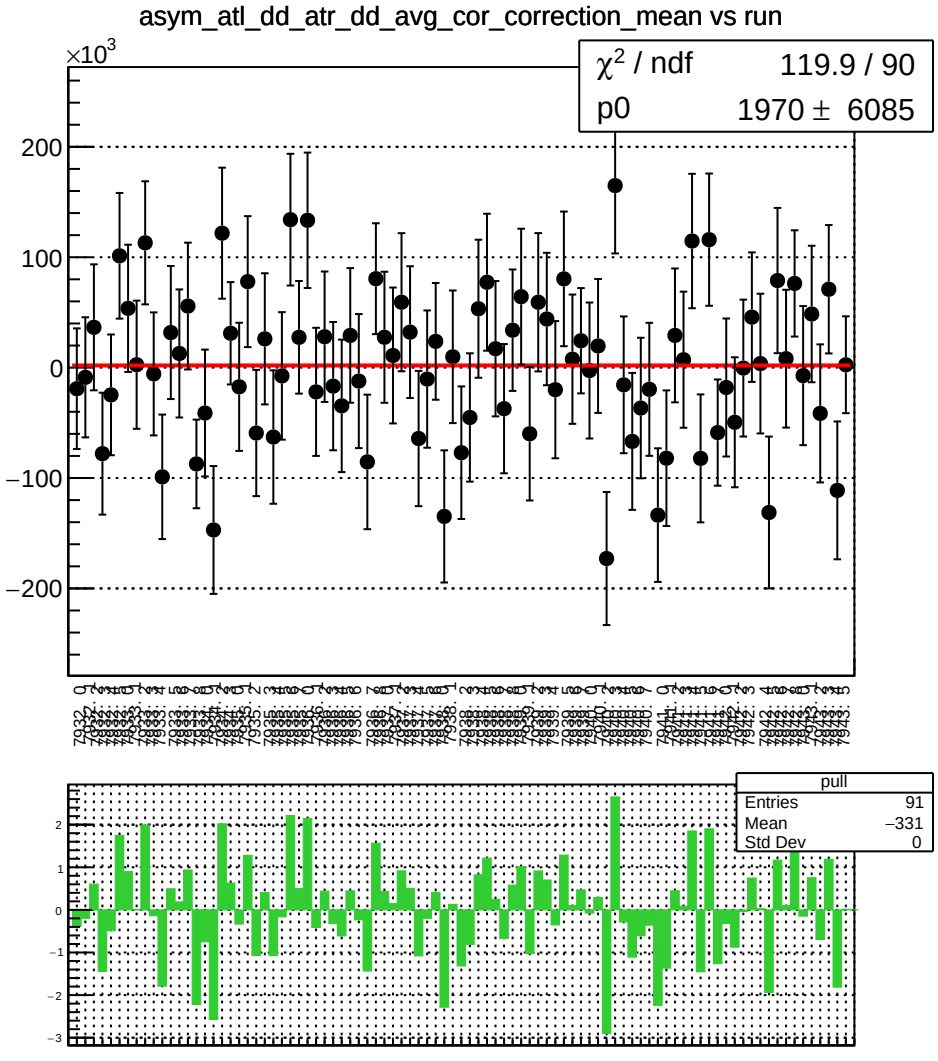

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

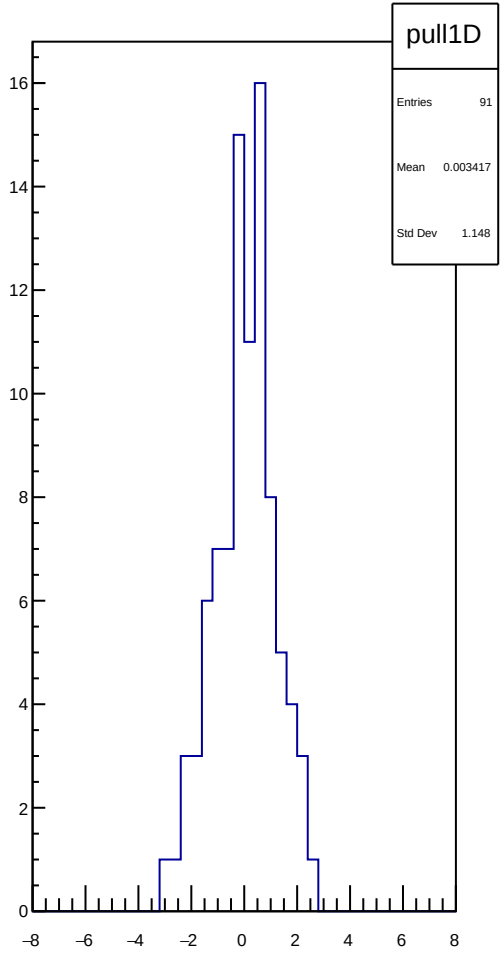

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

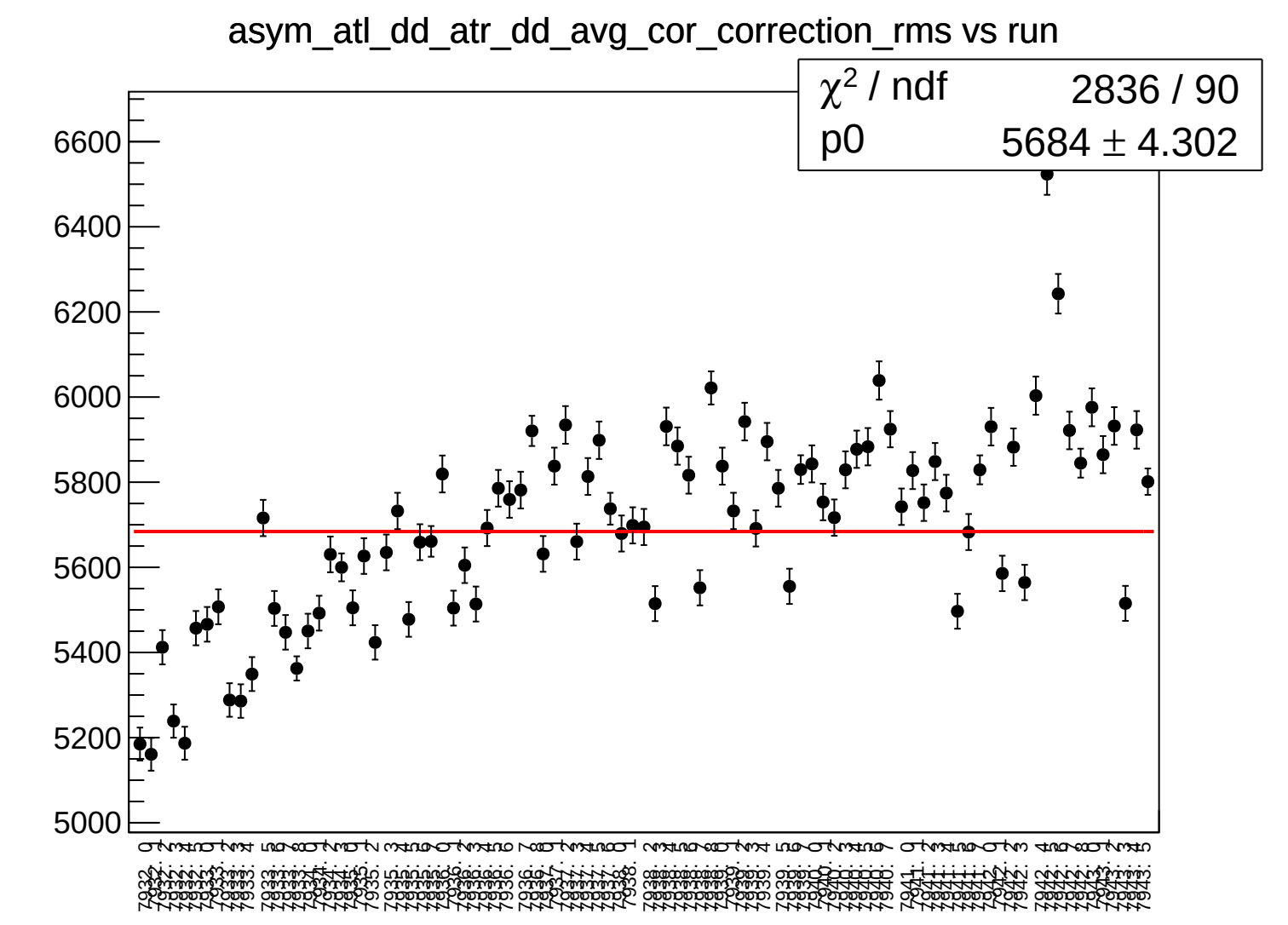

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
2
1
0
−1
−2

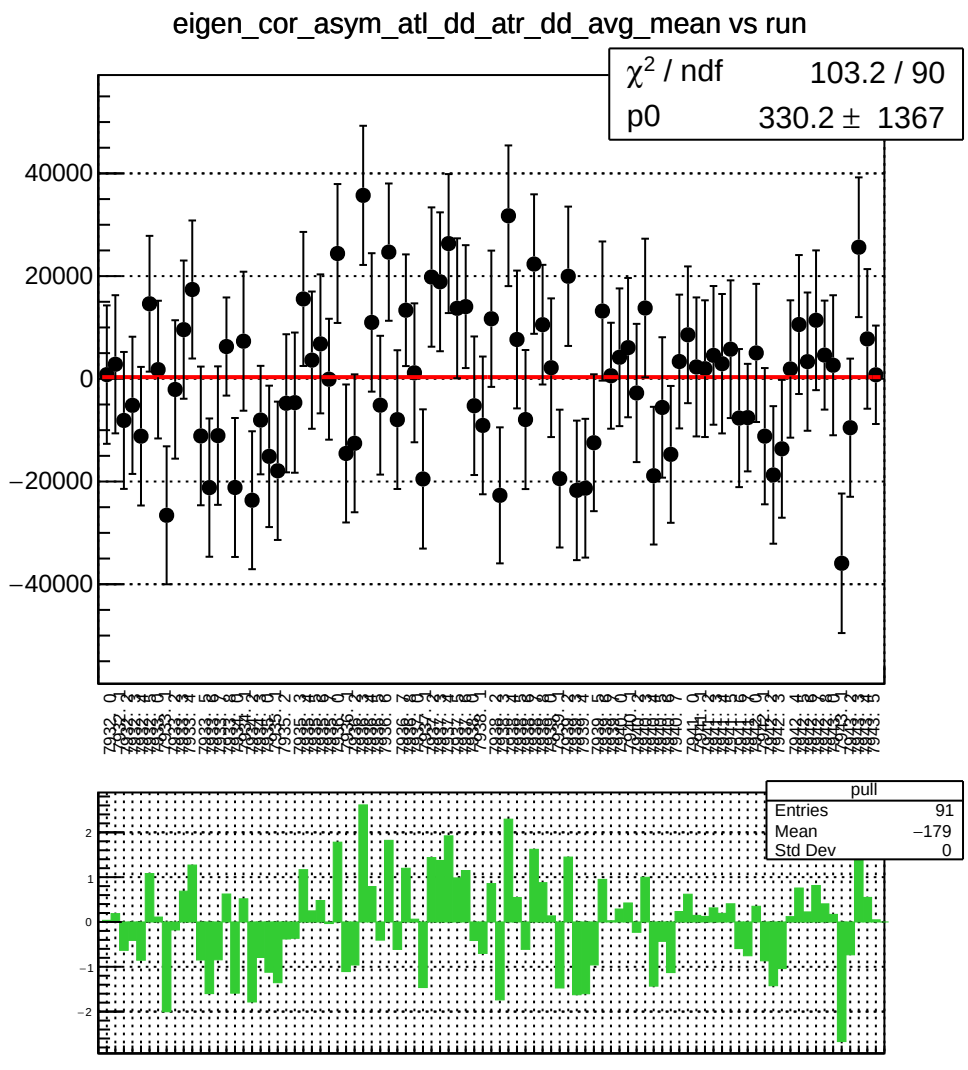

pull1D
Entries 91
Mean −0.004823
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

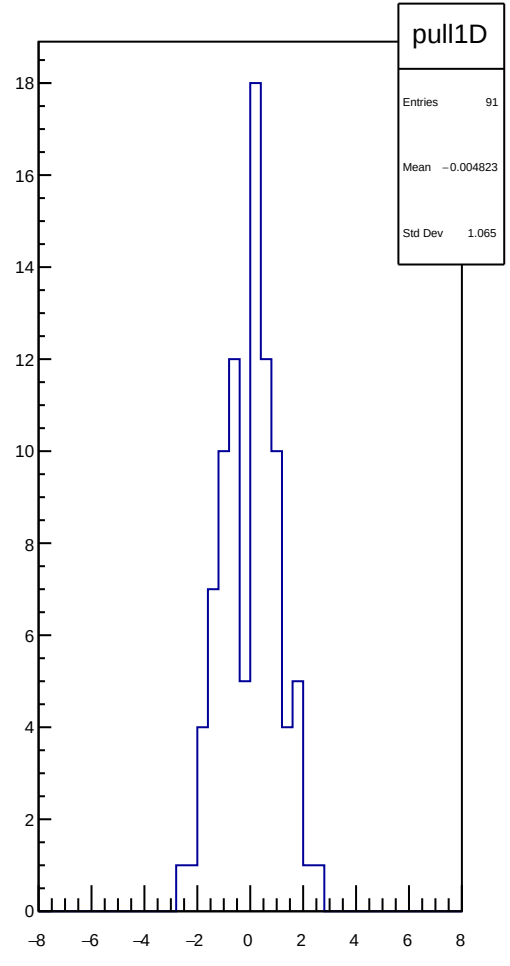

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

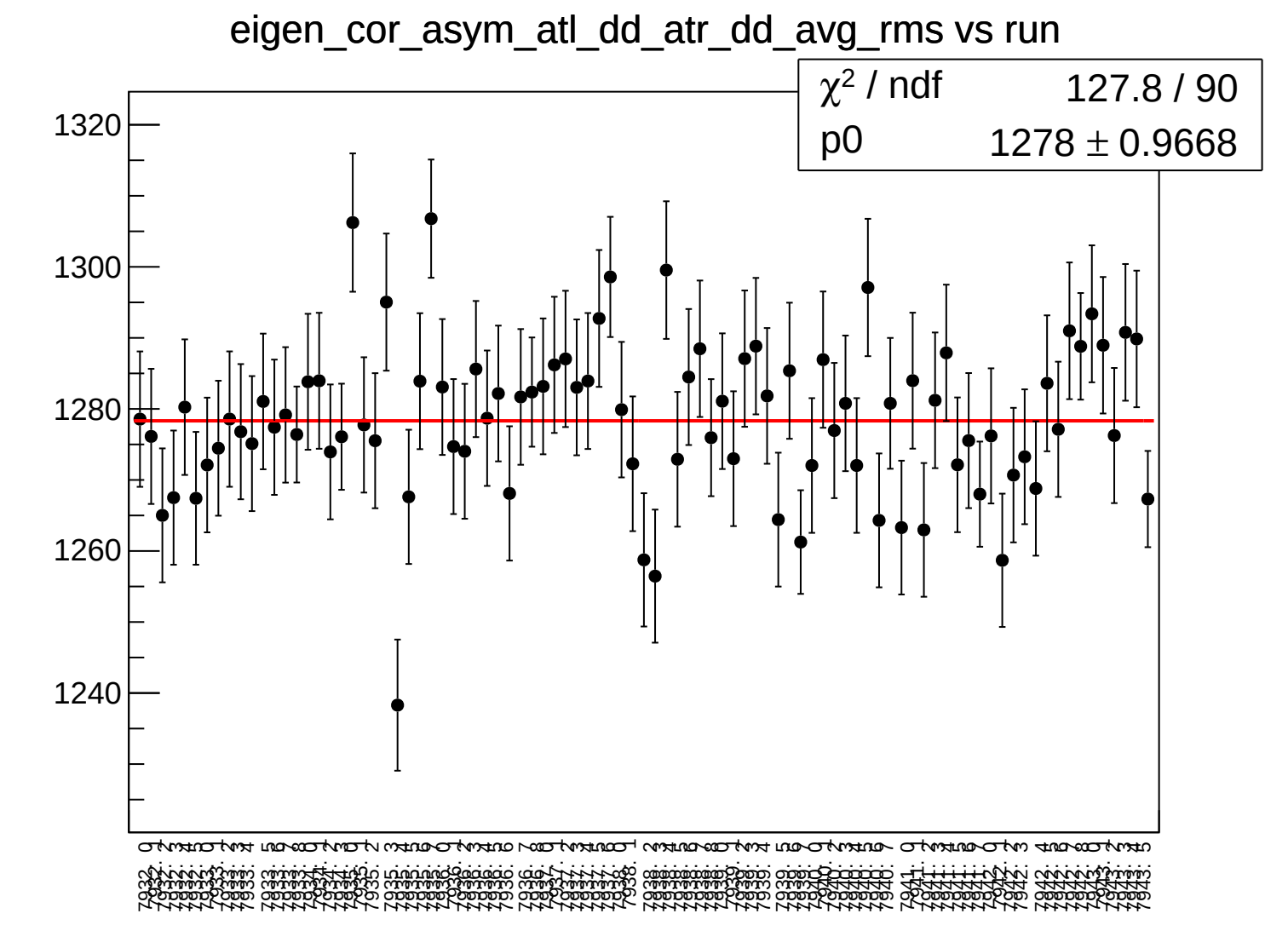

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3

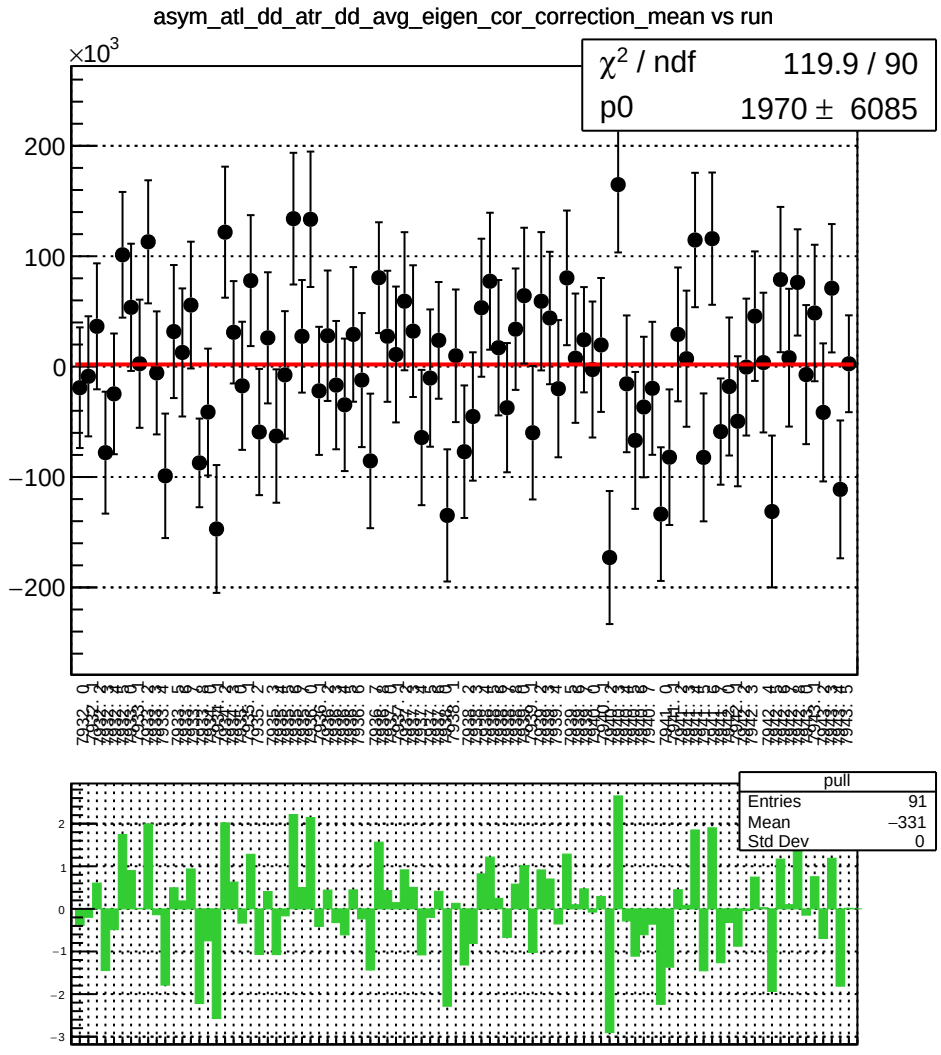

pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

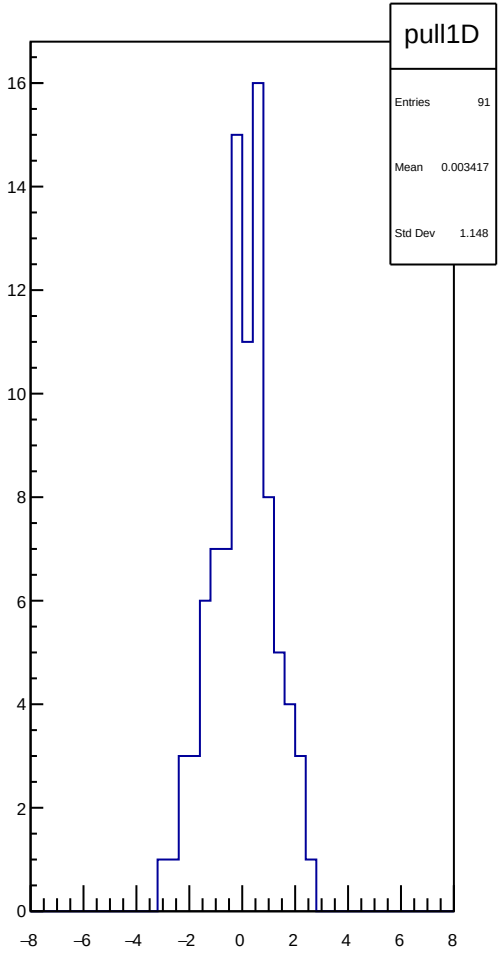

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

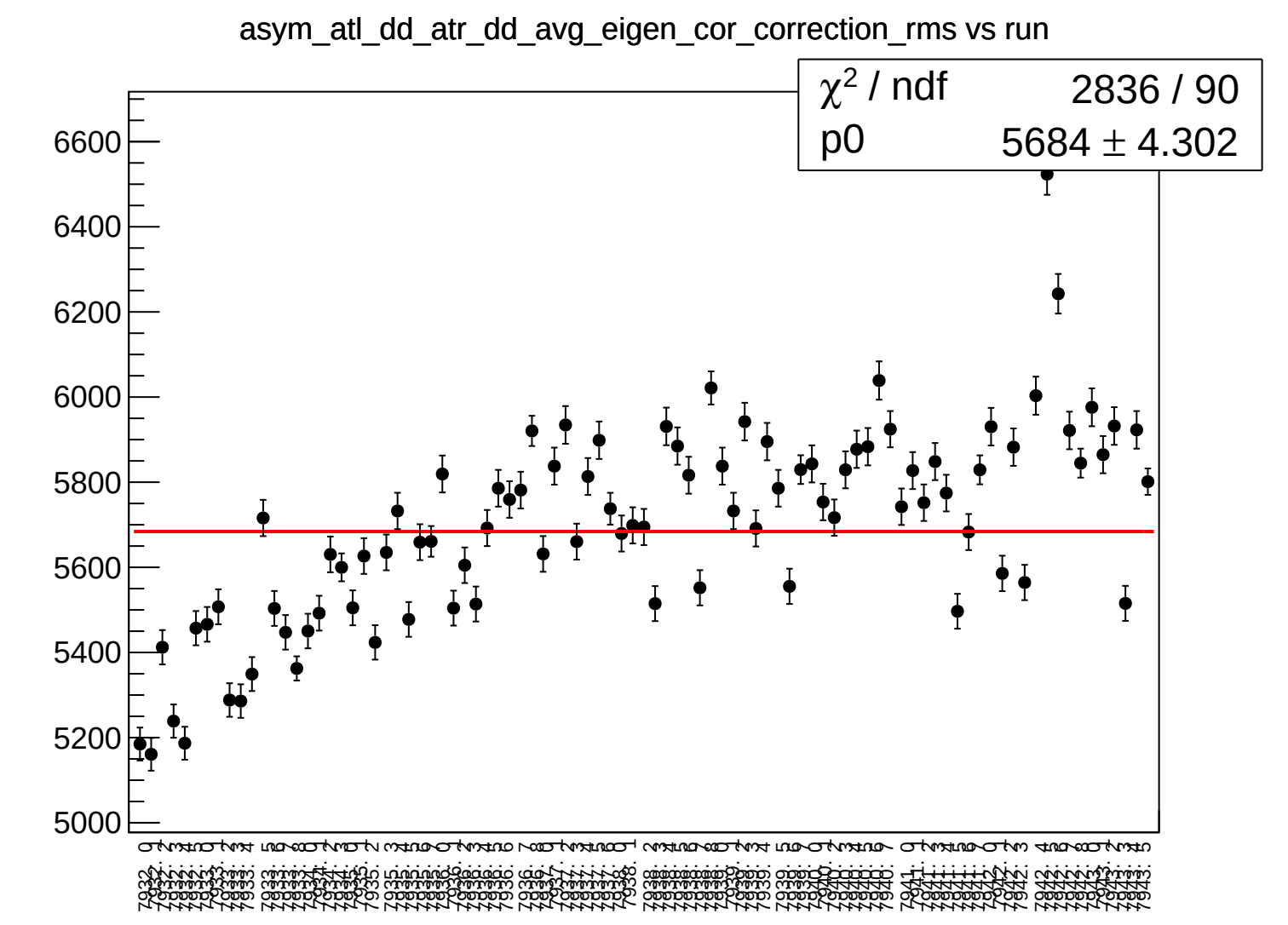

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
2
1
0
−1
−2

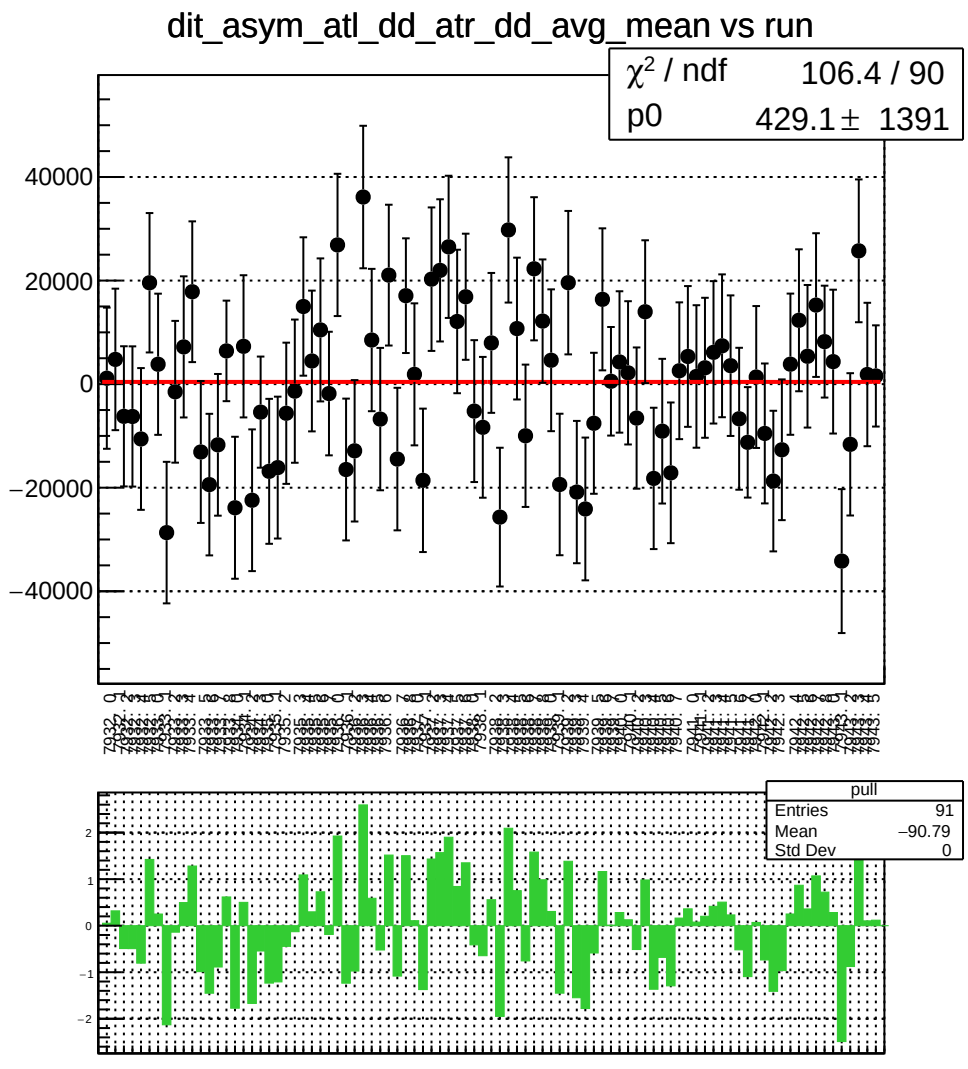

pull1D
Entries 91
Mean −0.004823
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

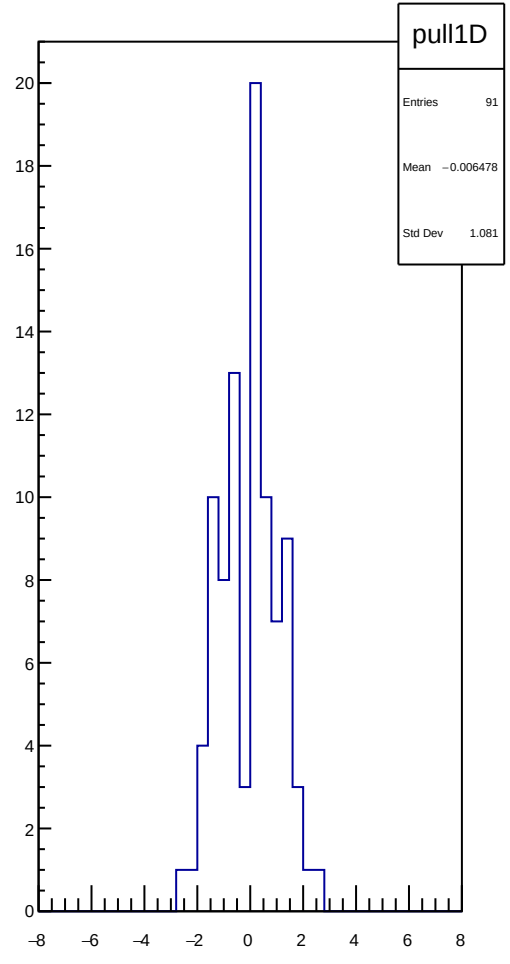

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

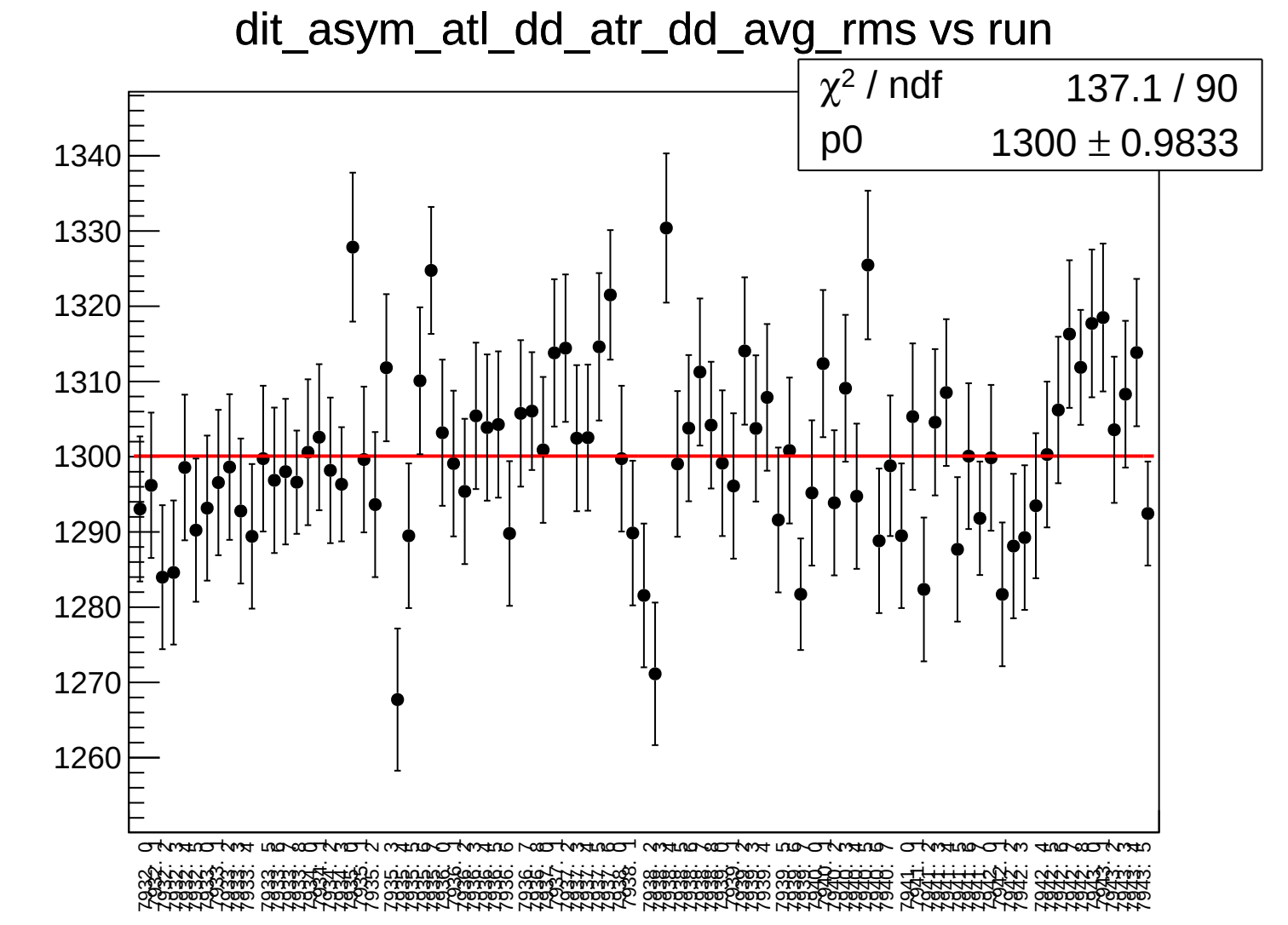

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3

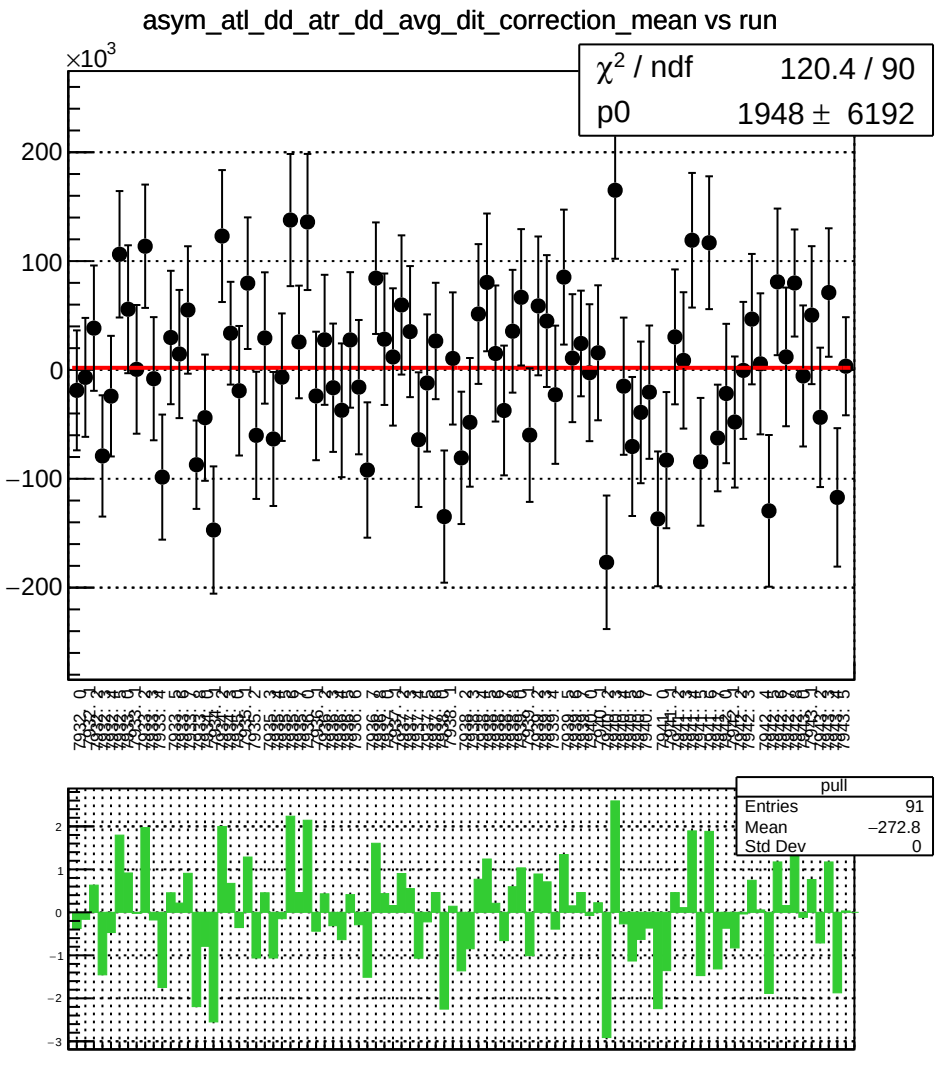

pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

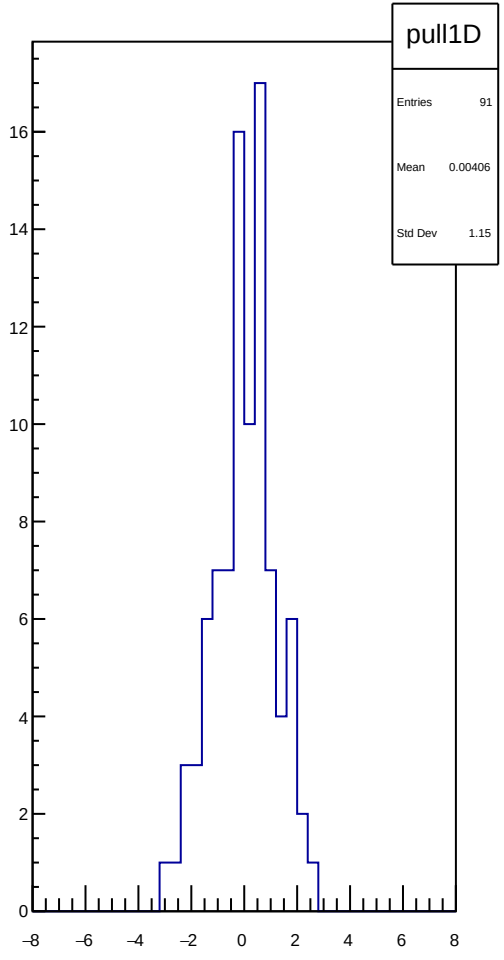

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

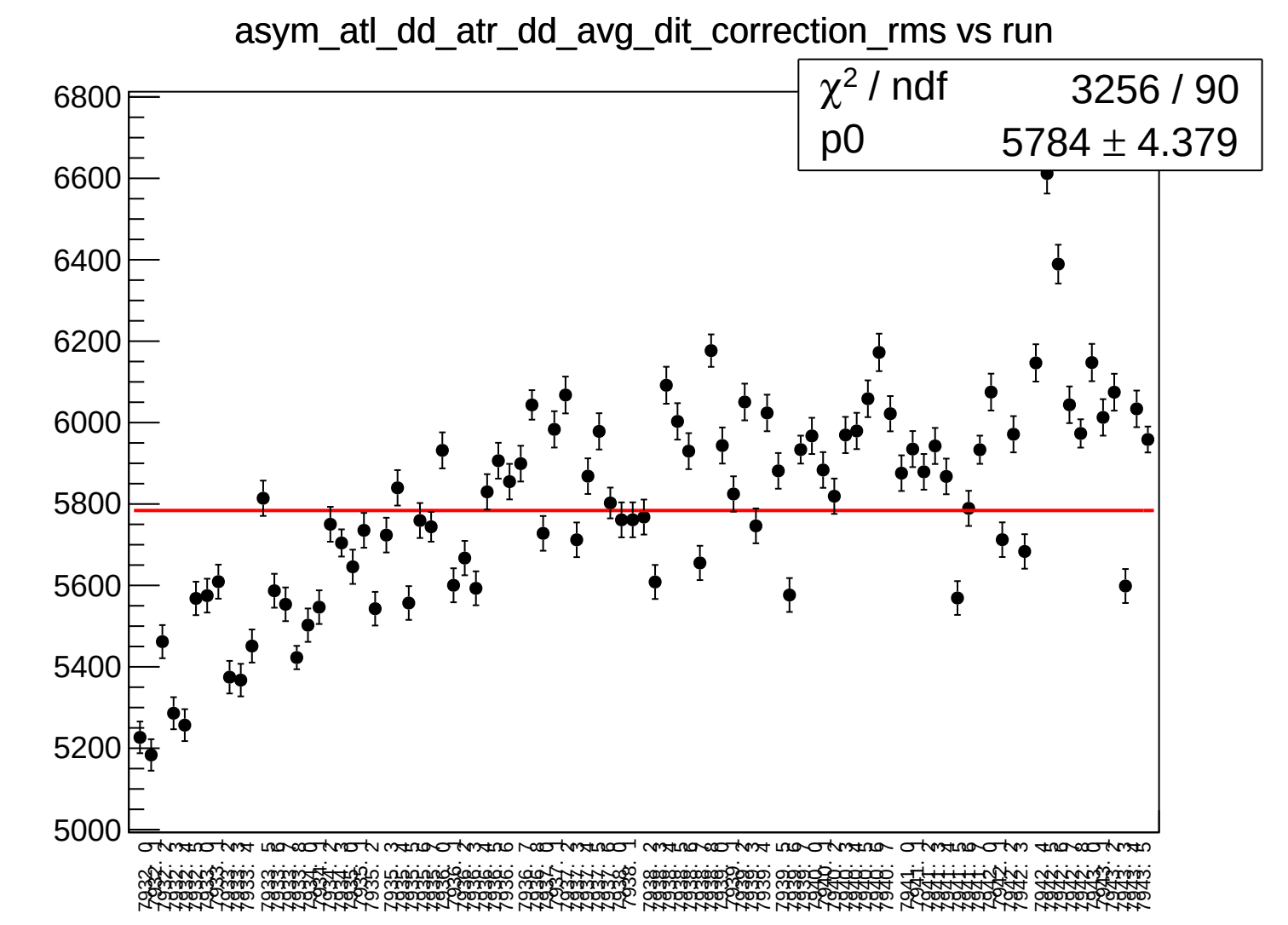

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 106.4 / 90
p0 429.1 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −90.79
Std Dev 0
2
1
0
−1
−2

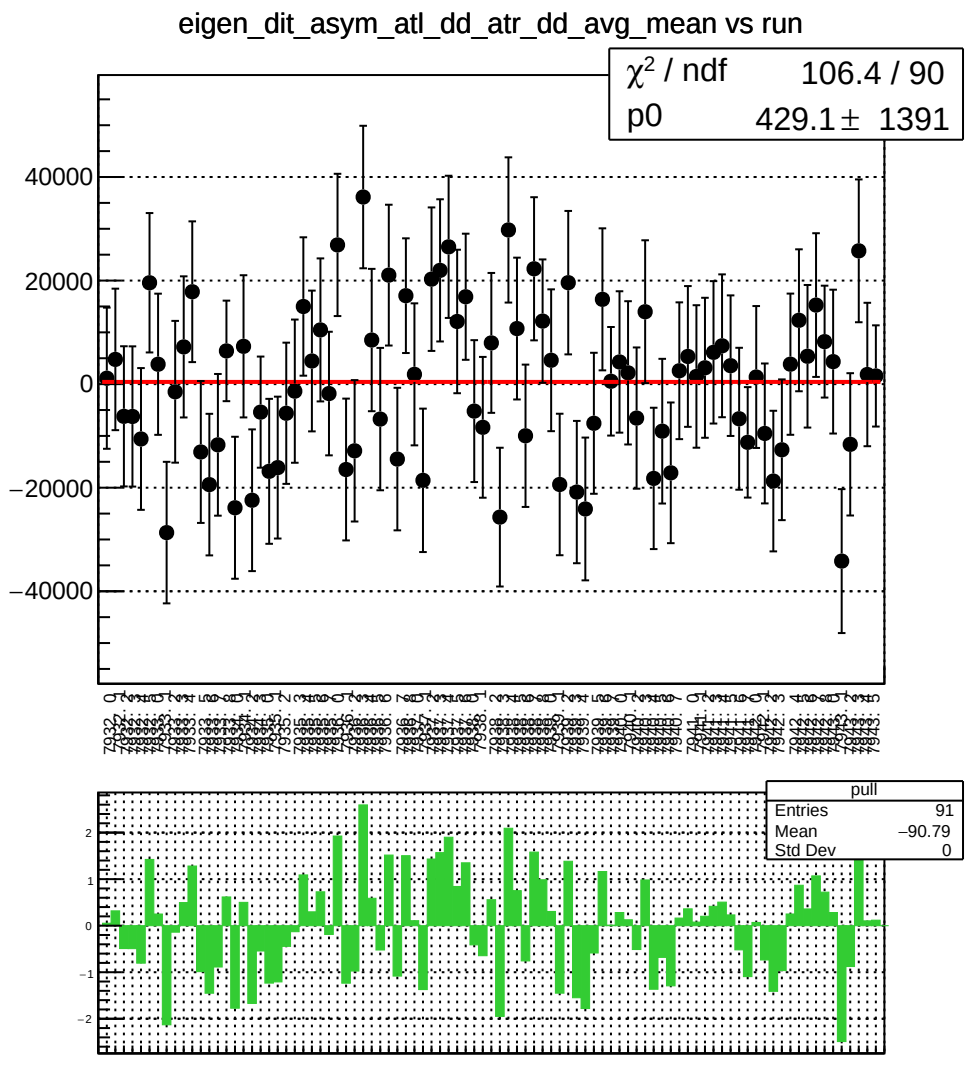

pull1D
Entries 91
Mean −0.006478
Std Dev 1.081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

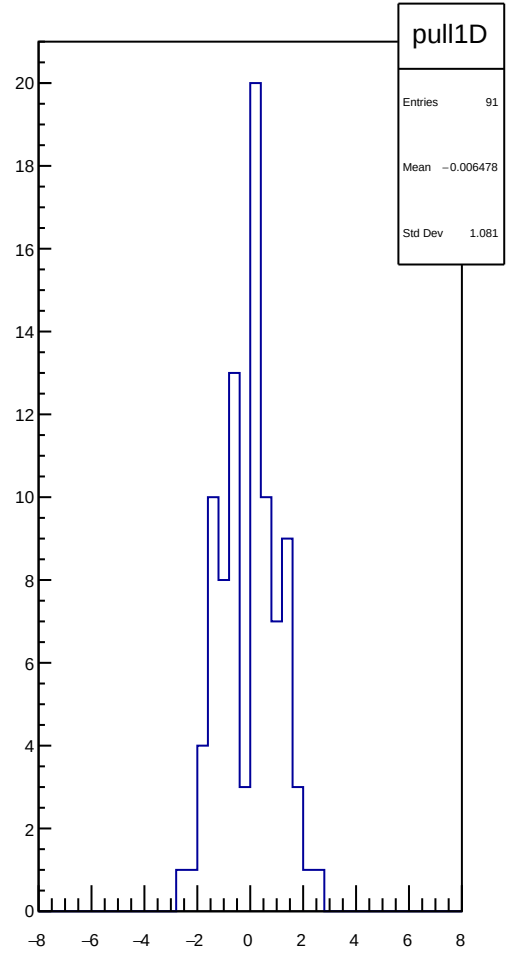

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 137.1 / 90
p0 1300 ± 0.9833
1340
1330
1320
1310
1300
1290
1280
1270
1260

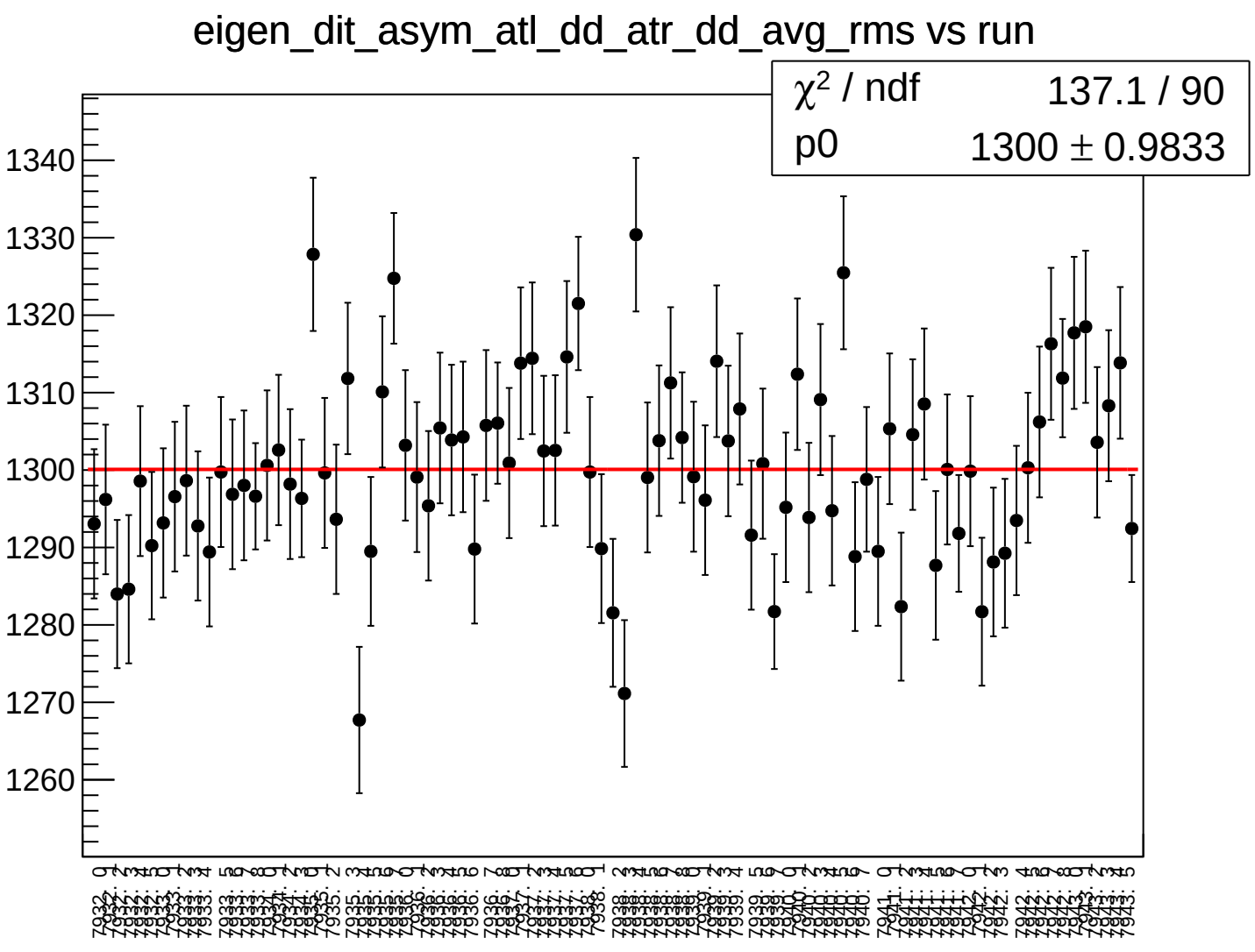

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1948 ± 6192
200
100
0
−100
−200
pull
Entries 91
Mean −272.8
Std Dev 0
2
1
0
−1
−2
−3

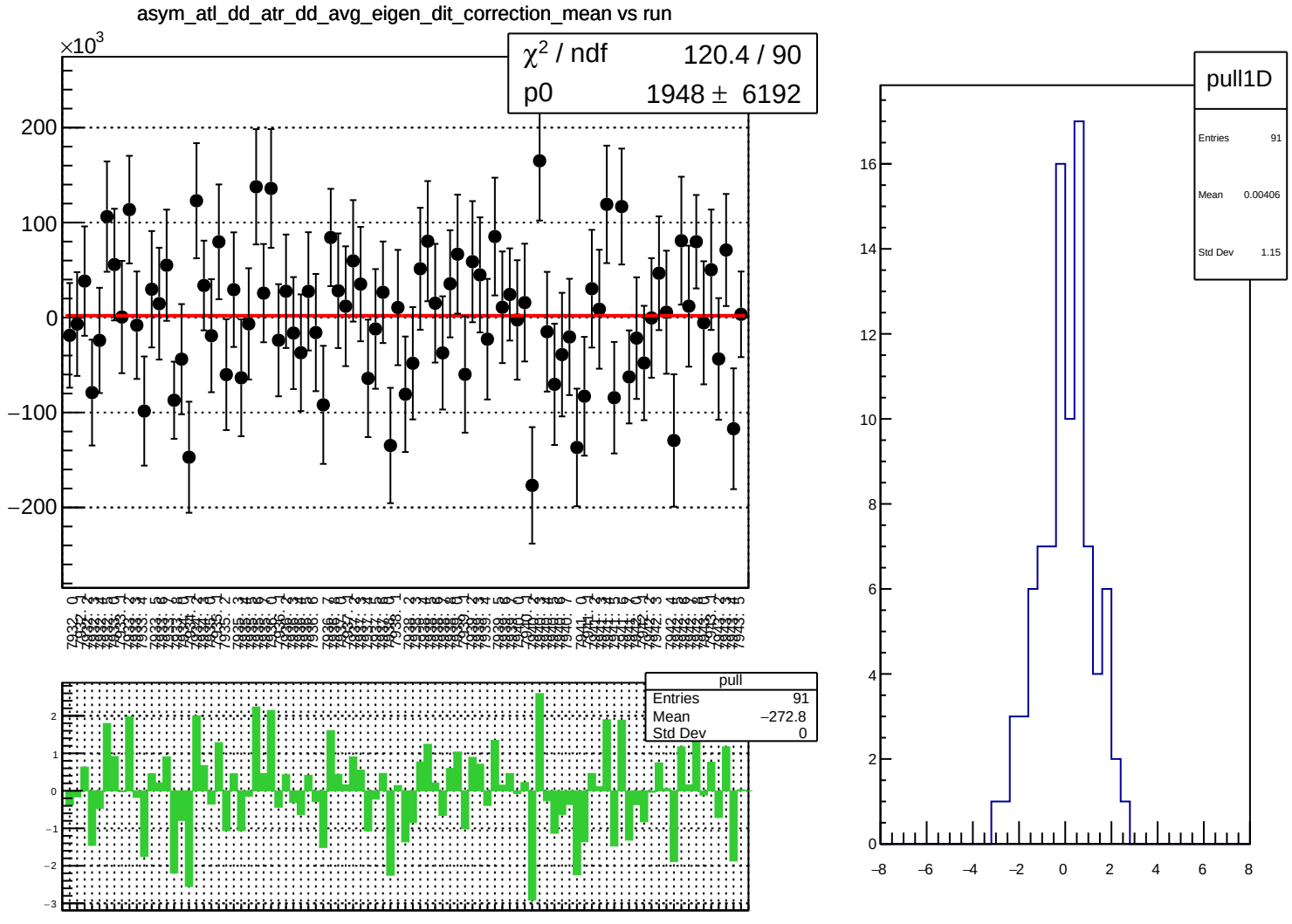

pull1D
Entries 91
Mean 0.00406
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

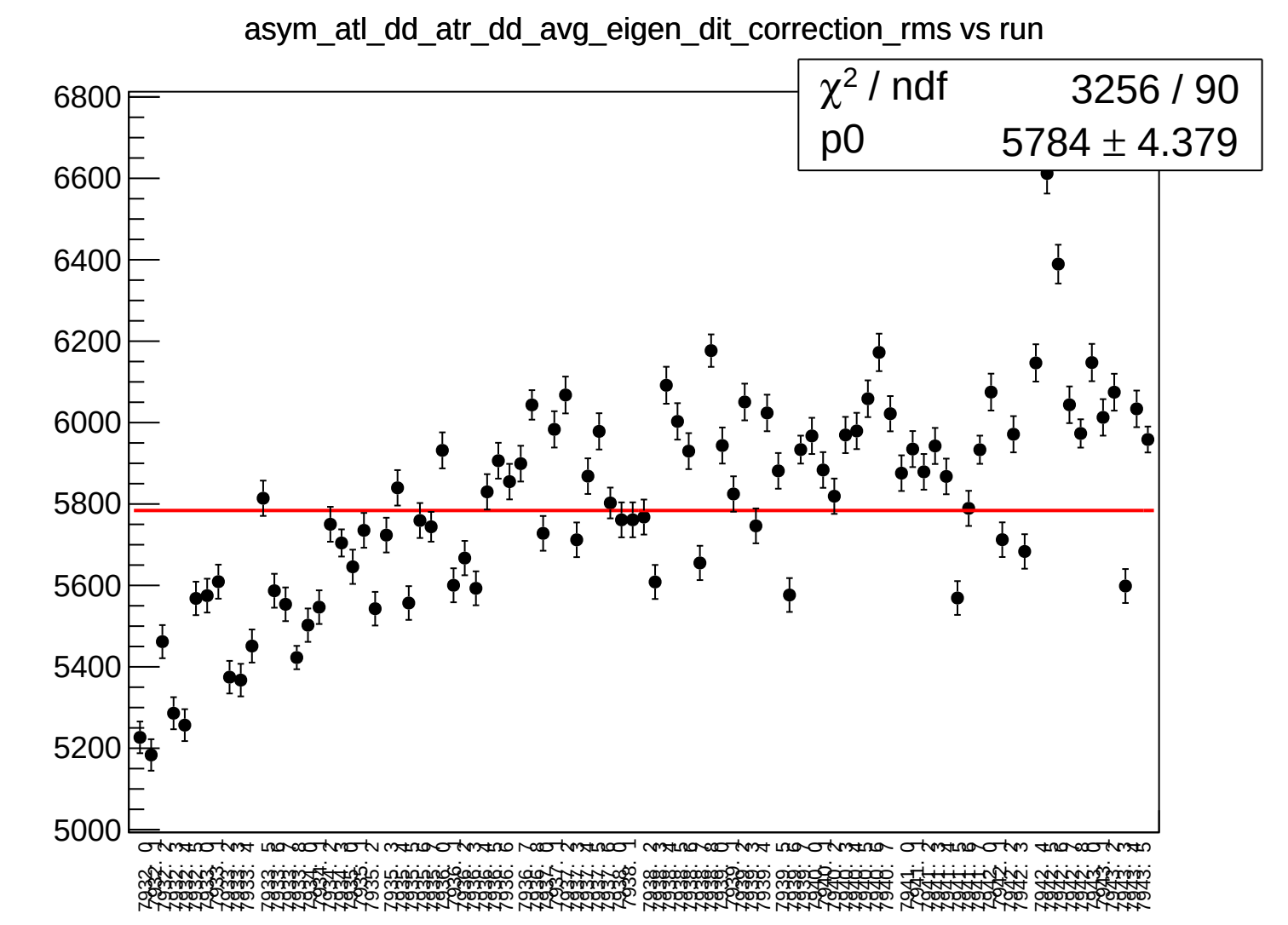

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3256 / 90
p0 5784 ± 4.379
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

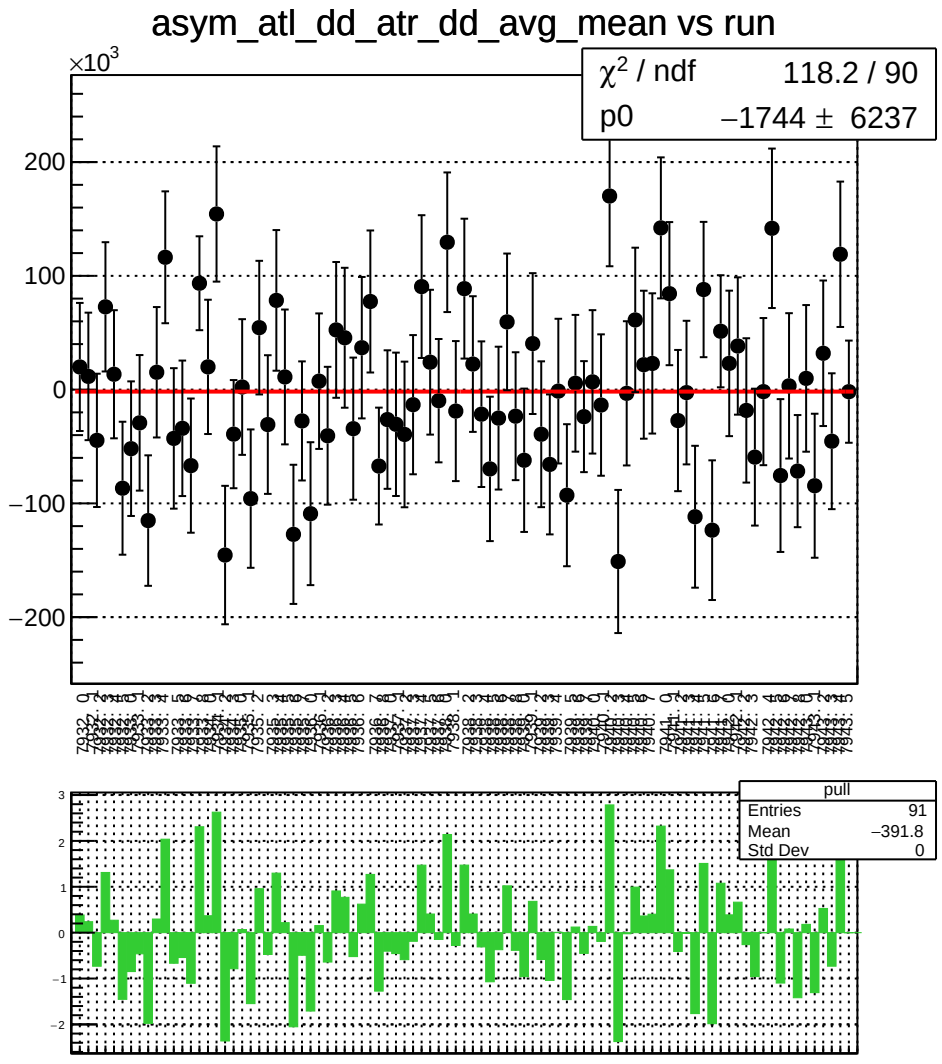

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 106.4 / 90
p0 429.1 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −90.79
Std Dev 0
2
1
0
−1
−2

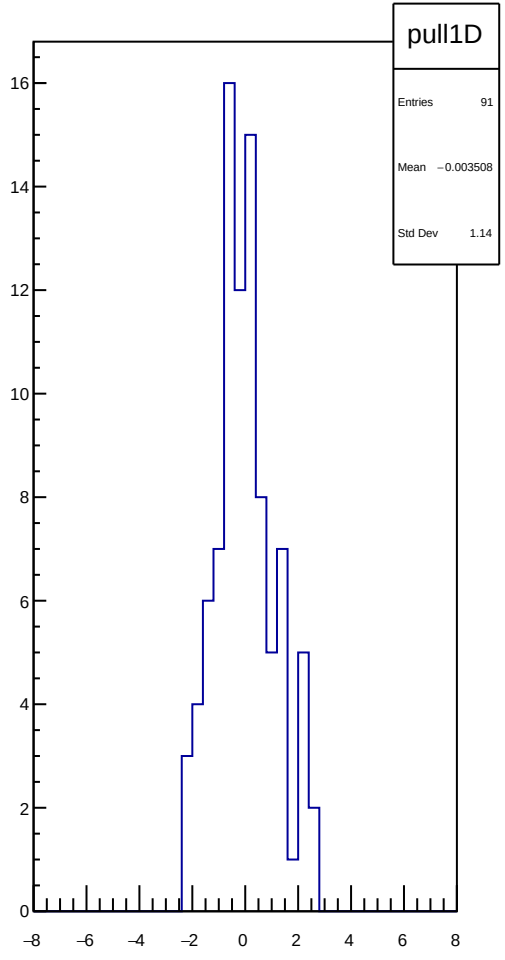

pull1D
Entries 91
Mean −0.006478
Std Dev 1.081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

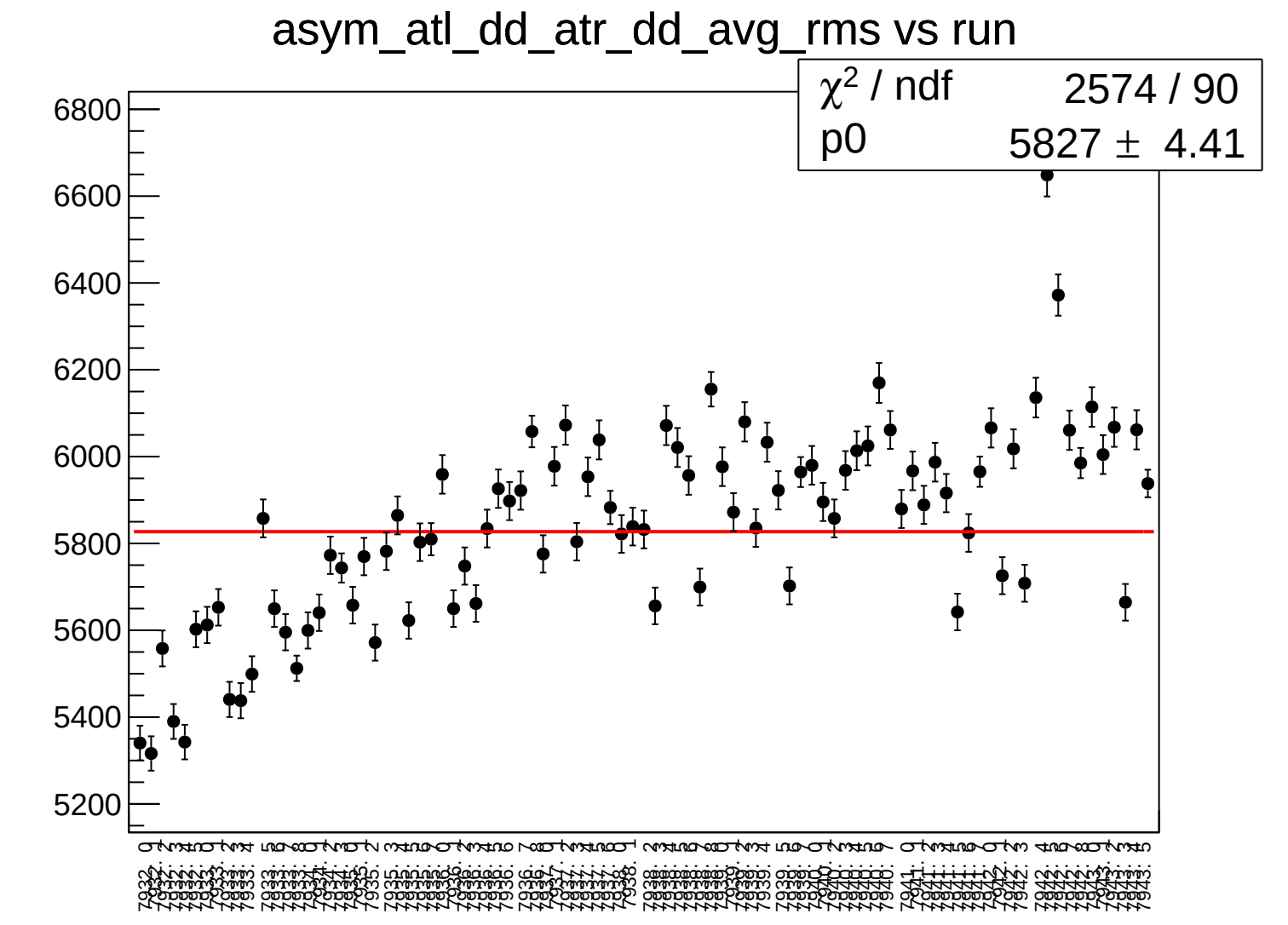

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 137.1 / 90
p0 1300 ± 0.9833
1340
1330
1320
1310
1300
1290
1280
1270
1260

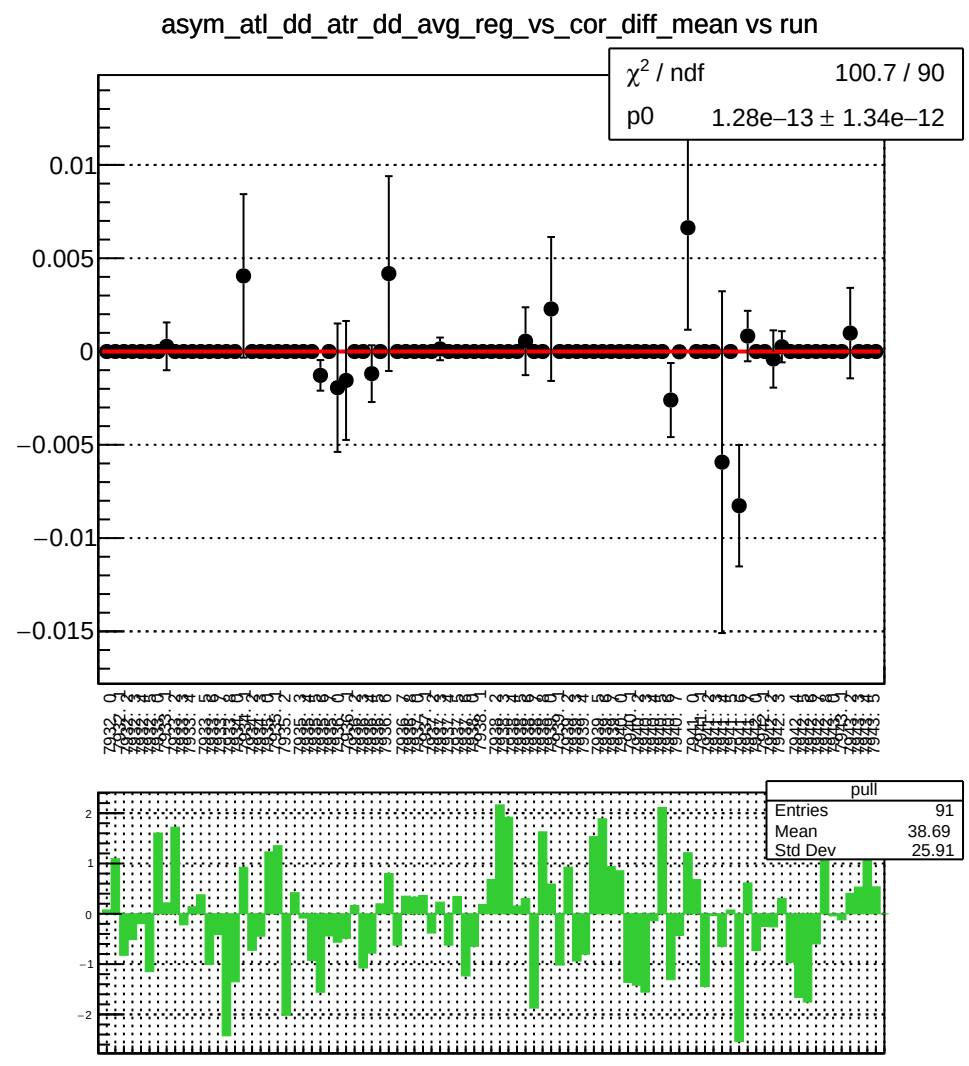

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1948 ± 6192
200
100
0
−100
−200
pull
Entries 91
Mean −272.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.00406
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

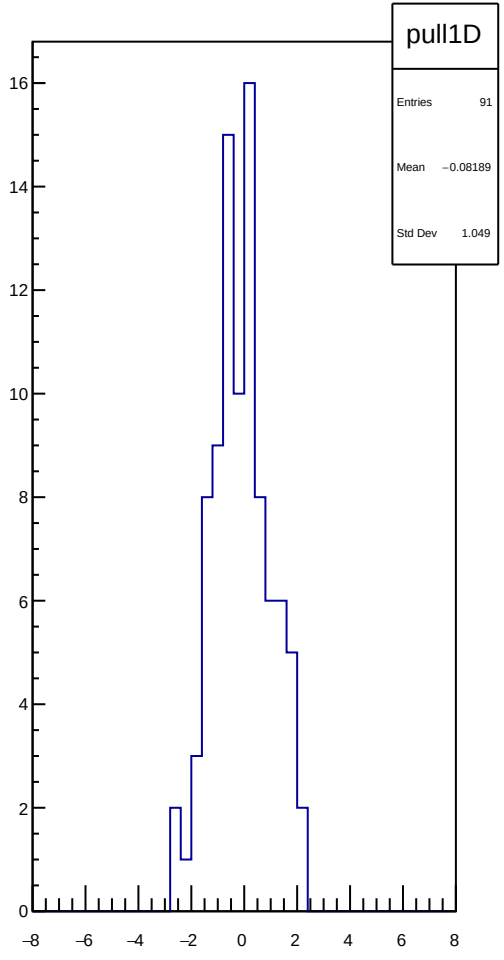

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3256 / 90
p0 5784 ± 4.379
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

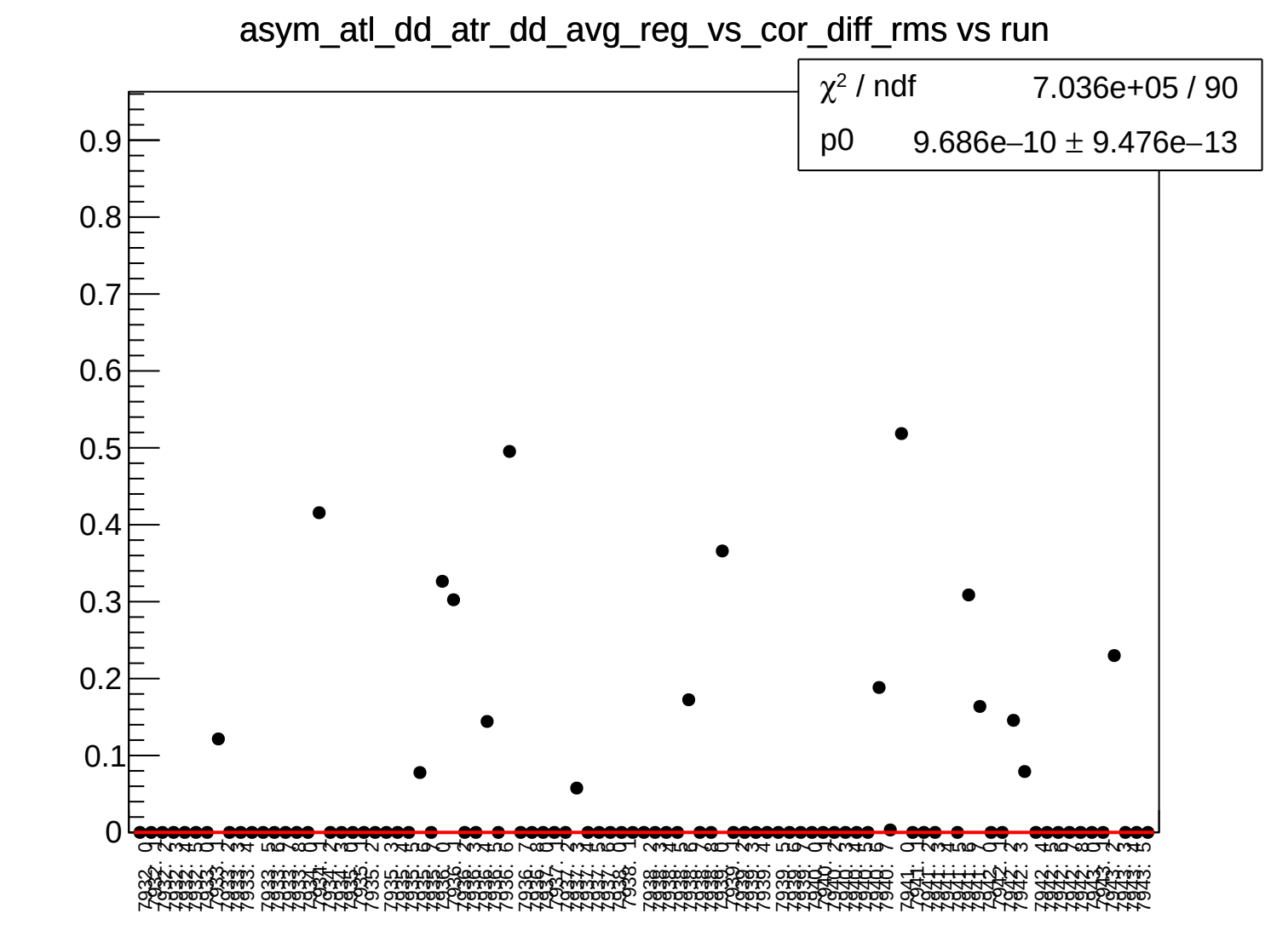

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 118.2 / 90
p0 −1744 ± 6237
200
100
0
−100
−200
pull
Entries 91
Mean −391.8
Std Dev 0
3
2
1
0
−1
−2

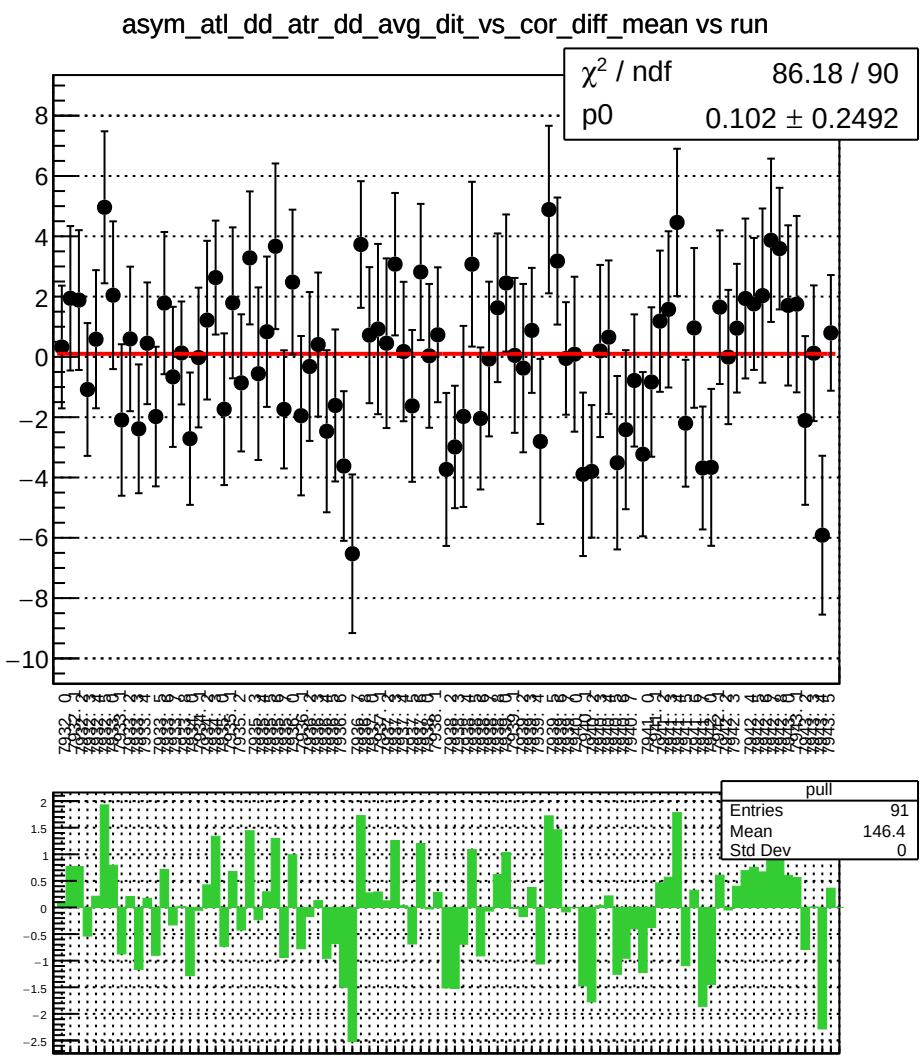

pull1D
Entries 91
Mean −0.003508
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

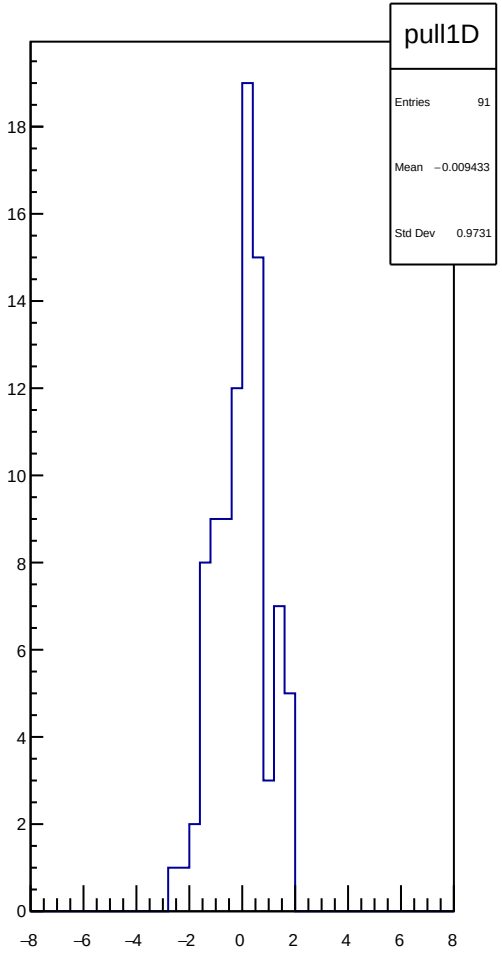

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 2574 / 90
p0 5827 ± 4.41
6800
6600
6400
6200
6000
5800
5600
5400
5200

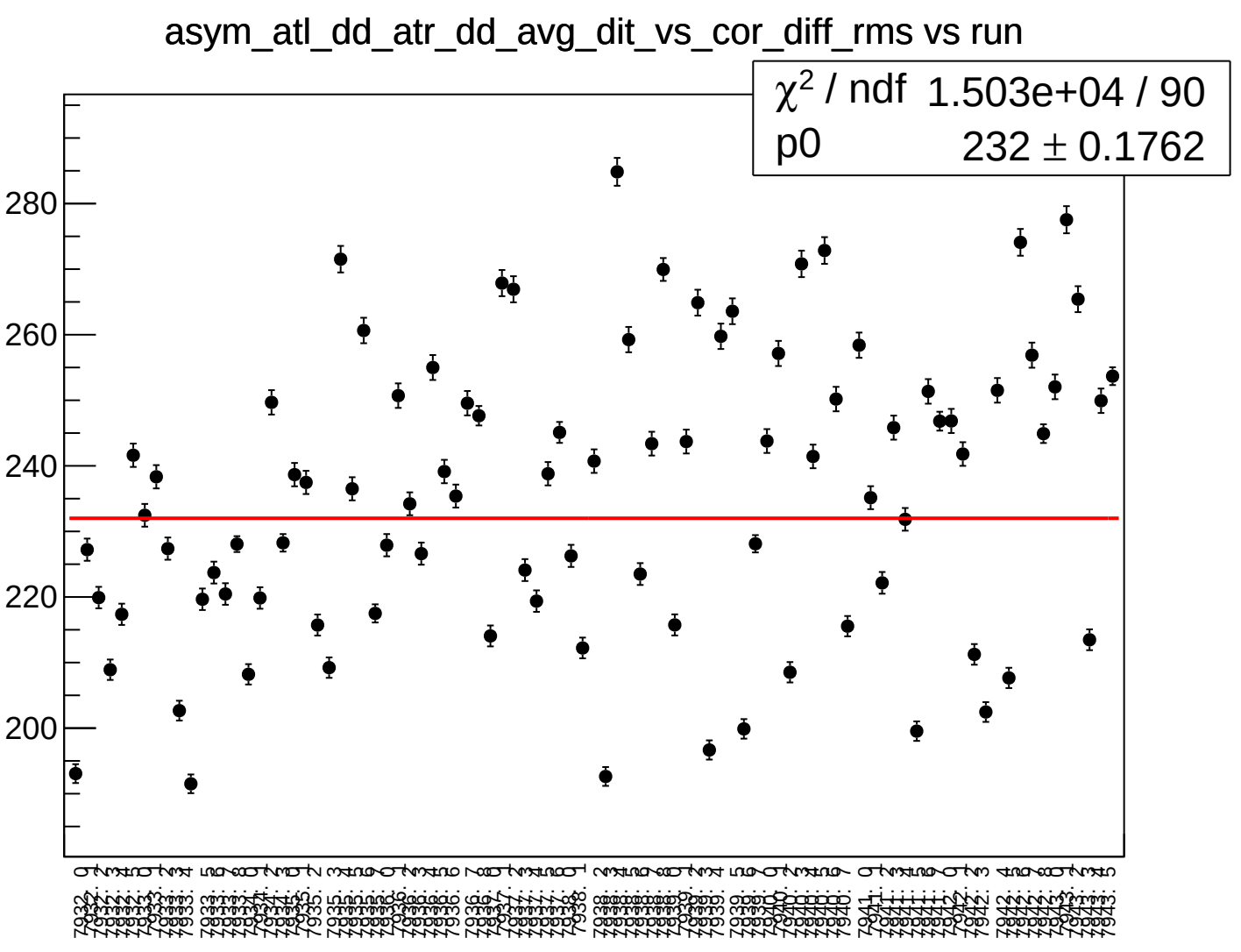

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 90
p0 1.28e−13 ± 1.34e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 38.69
Std Dev 25.91
2
1
0
−1
−2

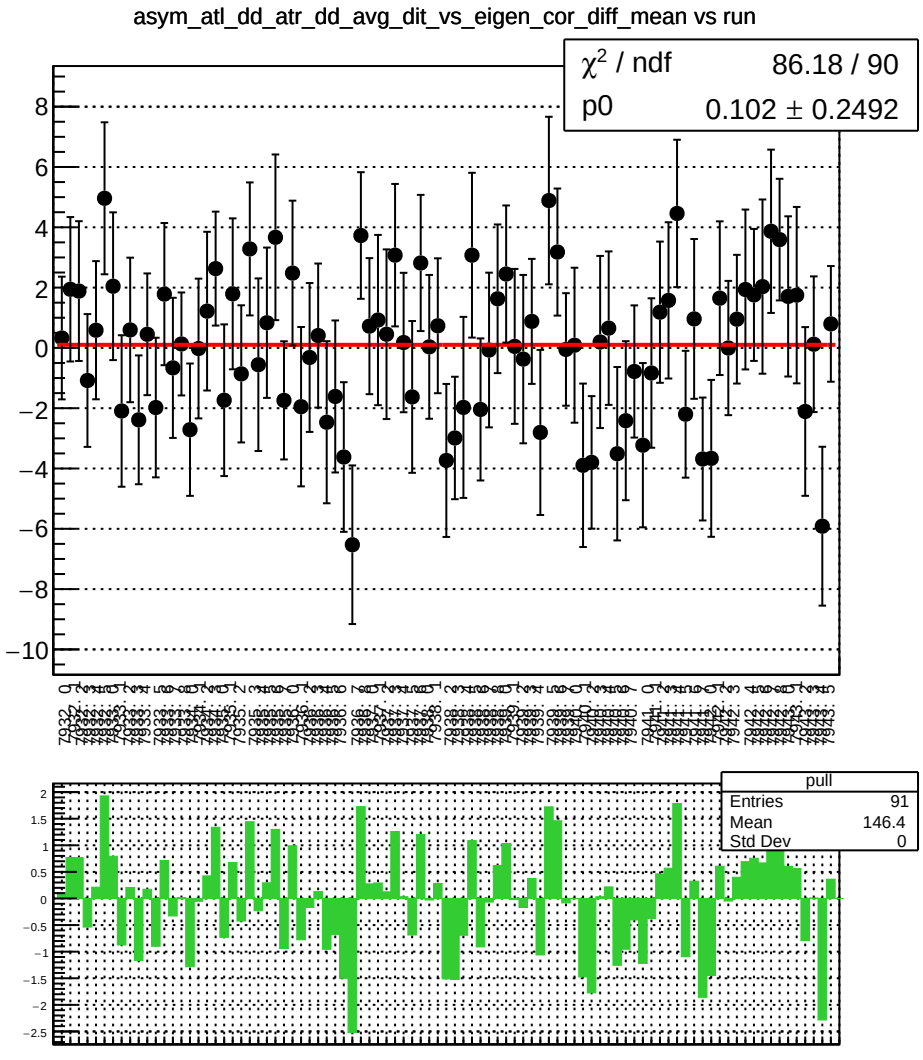

pull1D
Entries 91
Mean −0.08189
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

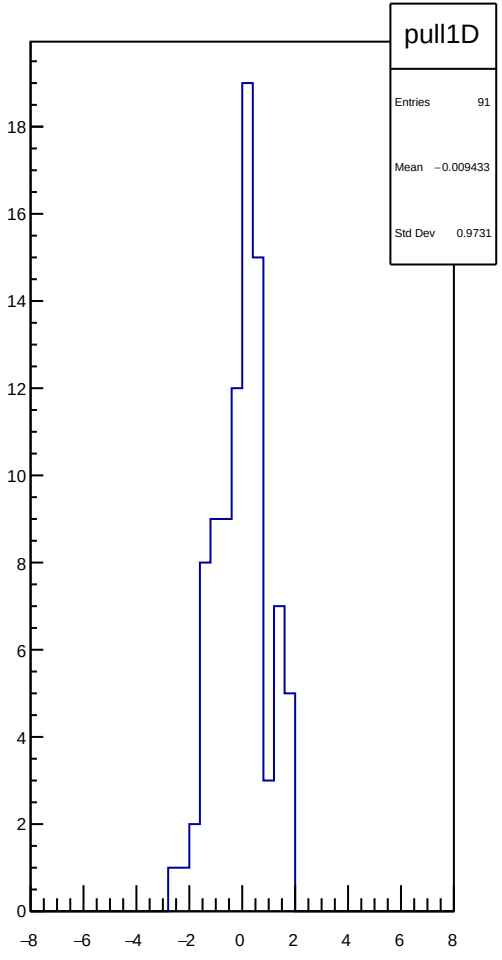

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.036e+05 / 90
p0 9.686e−10 ± 9.476e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

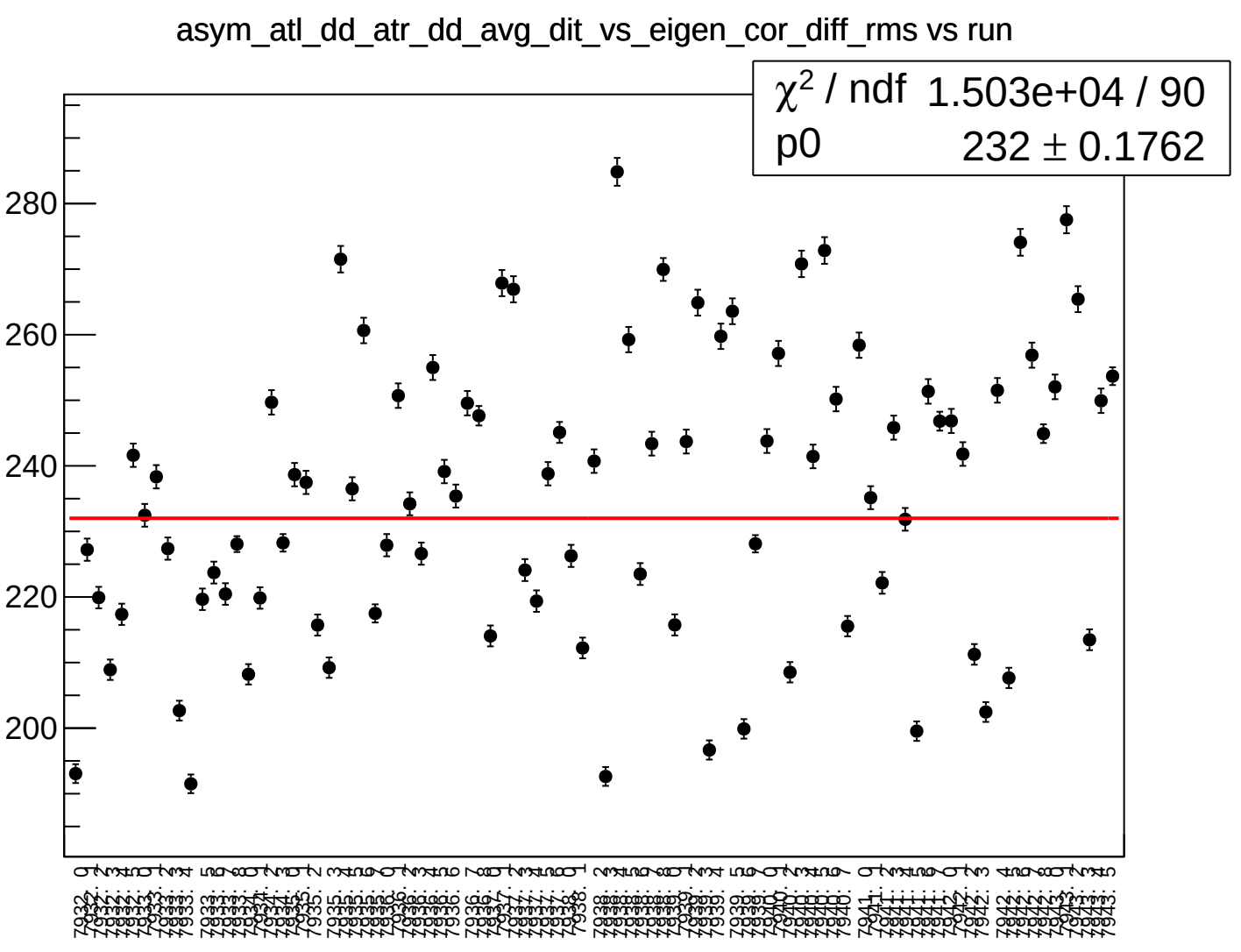

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

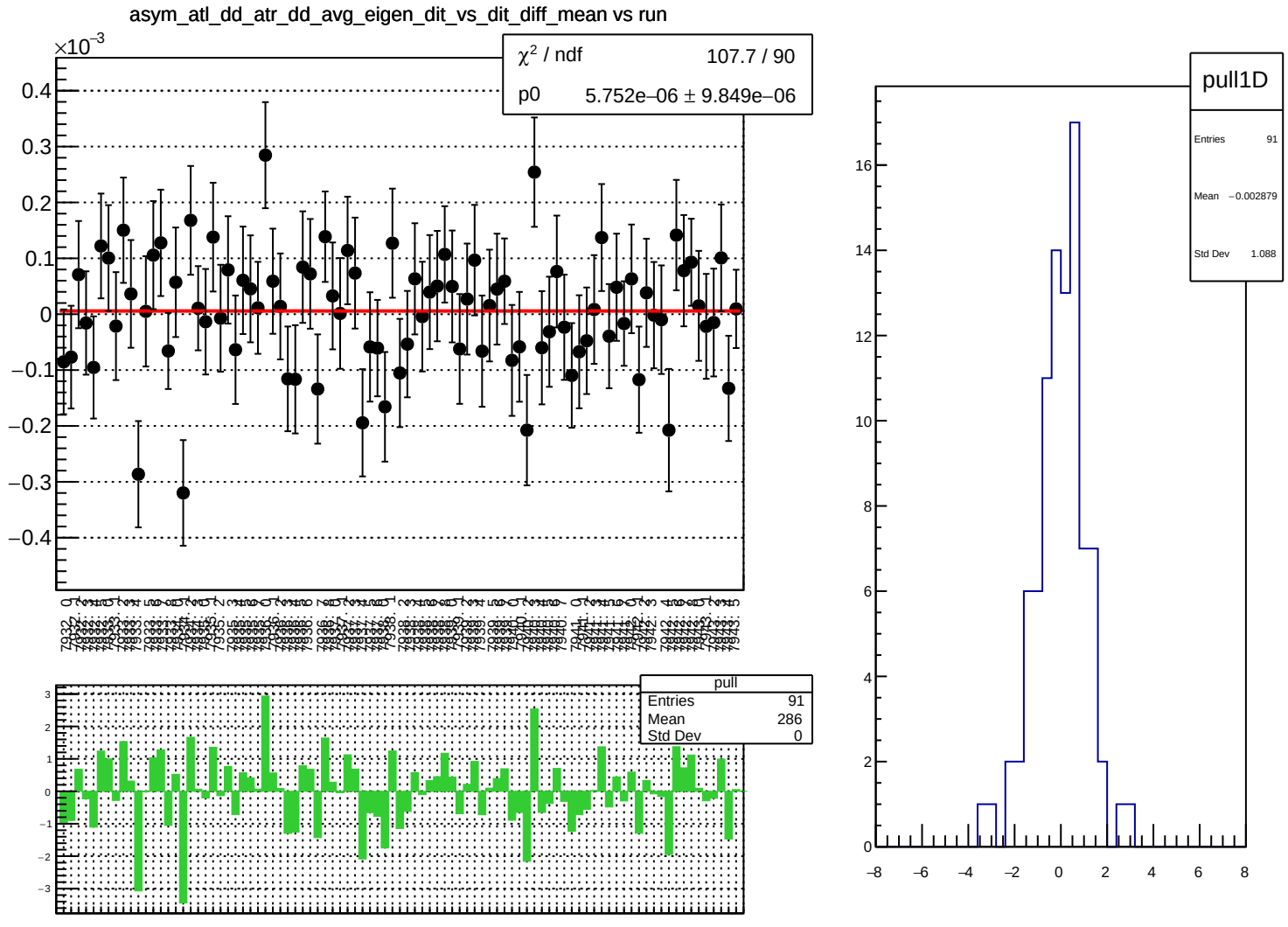

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

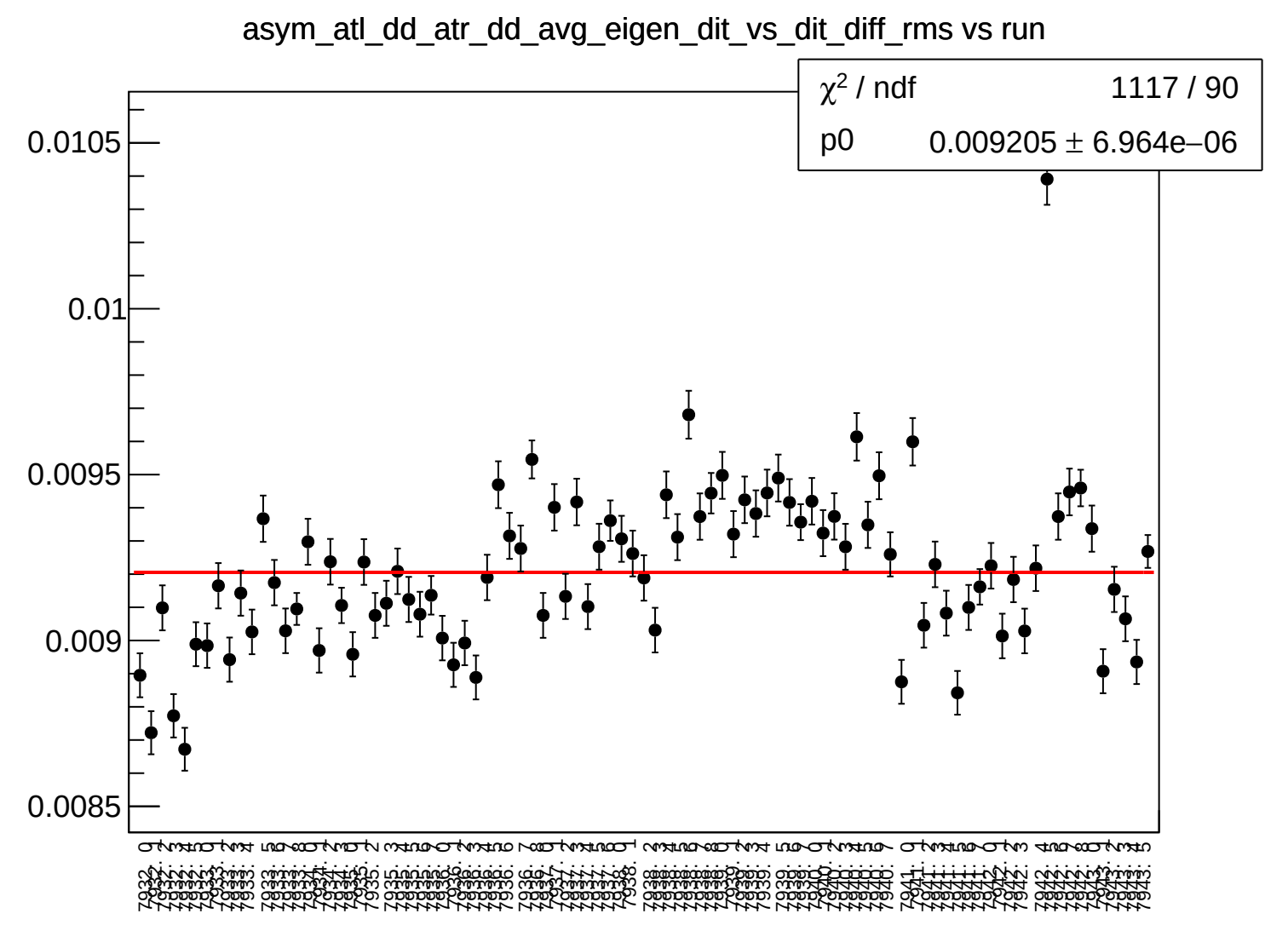

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

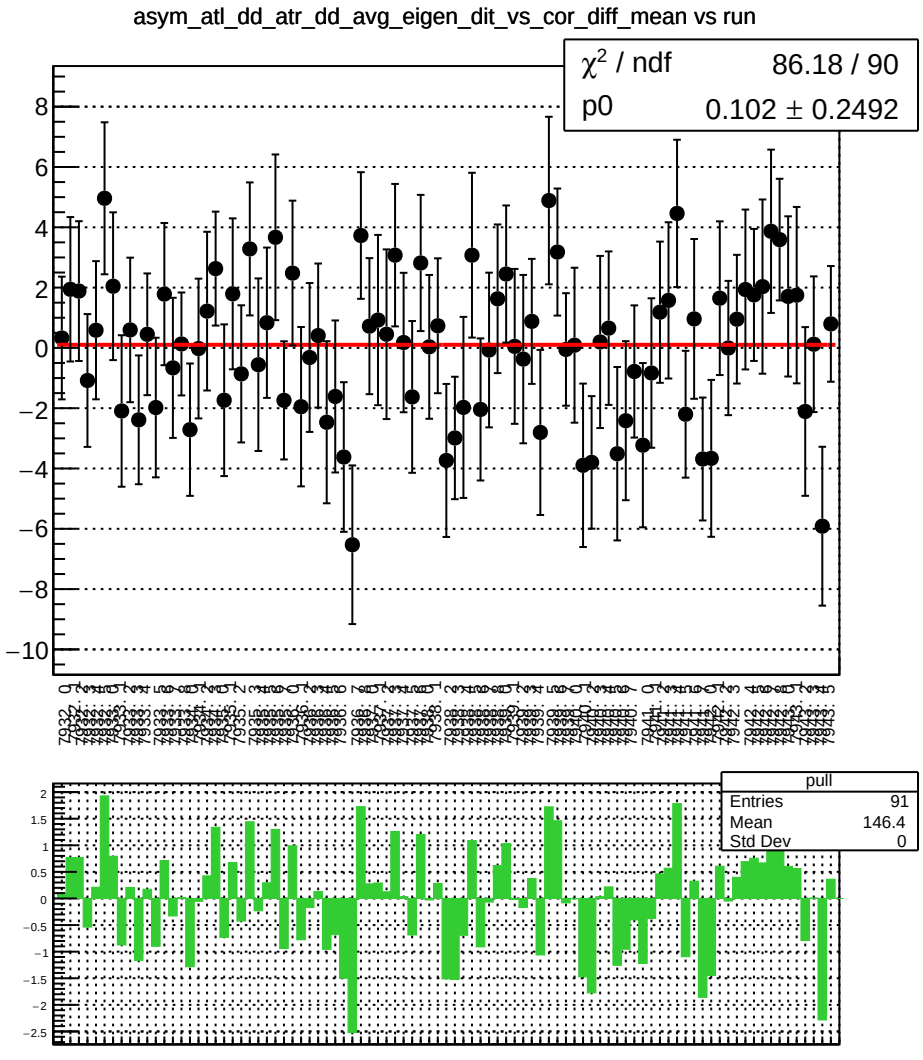

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

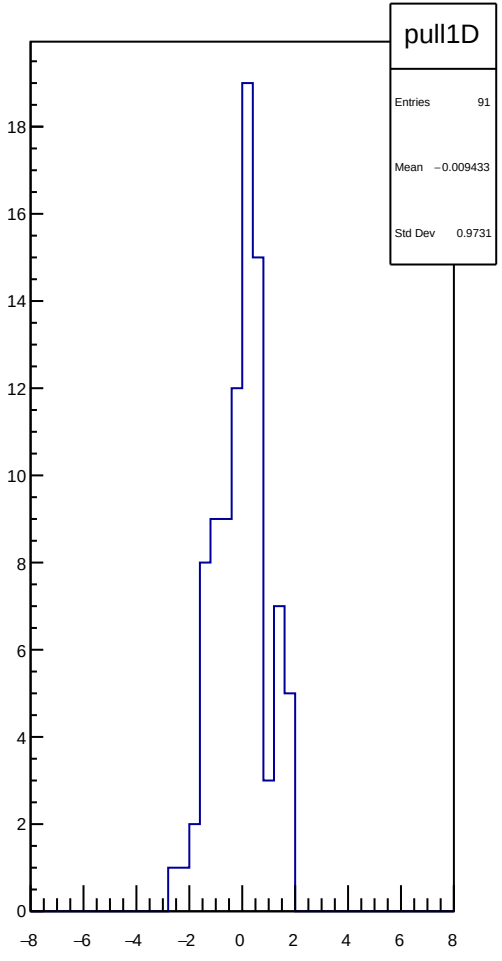

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

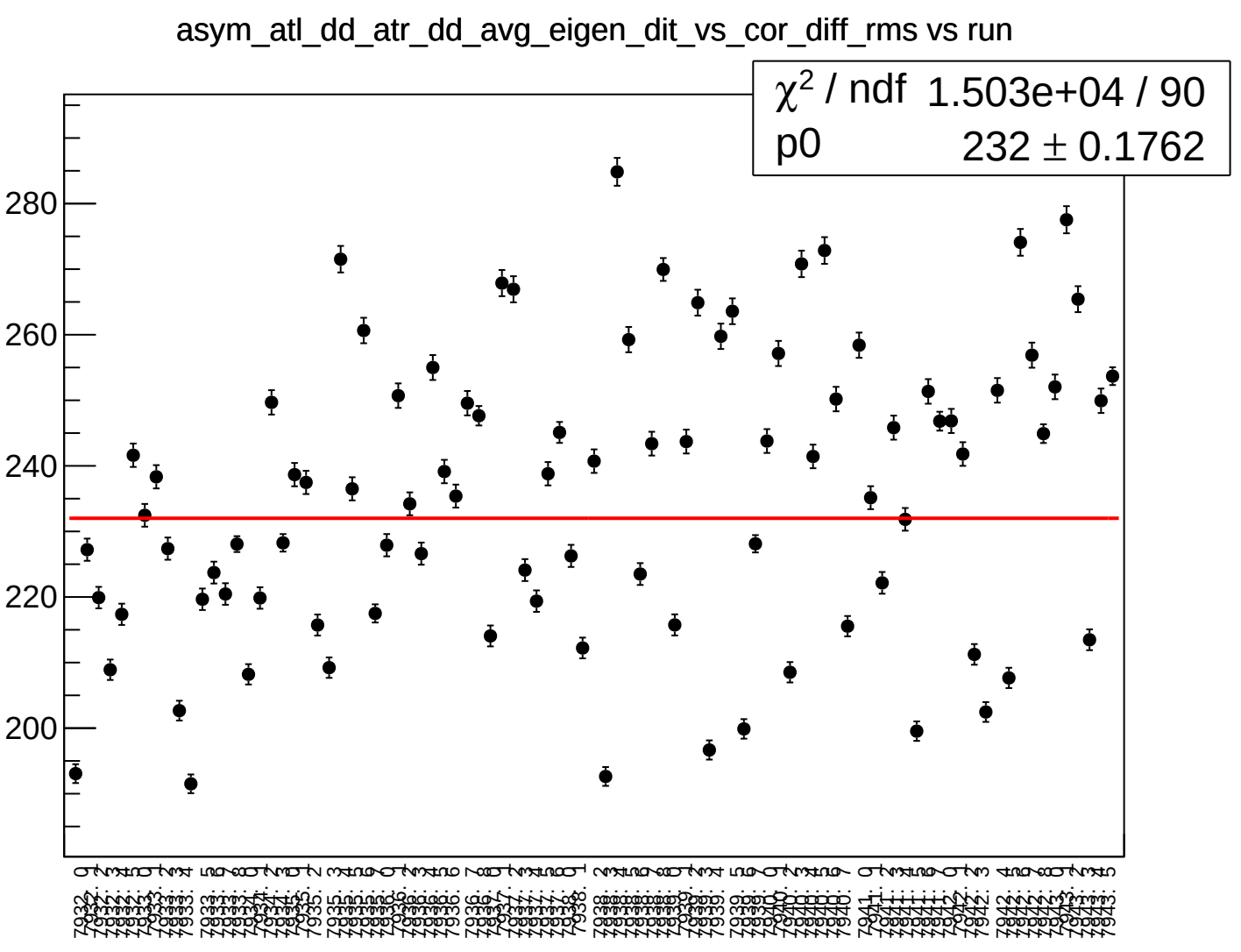

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

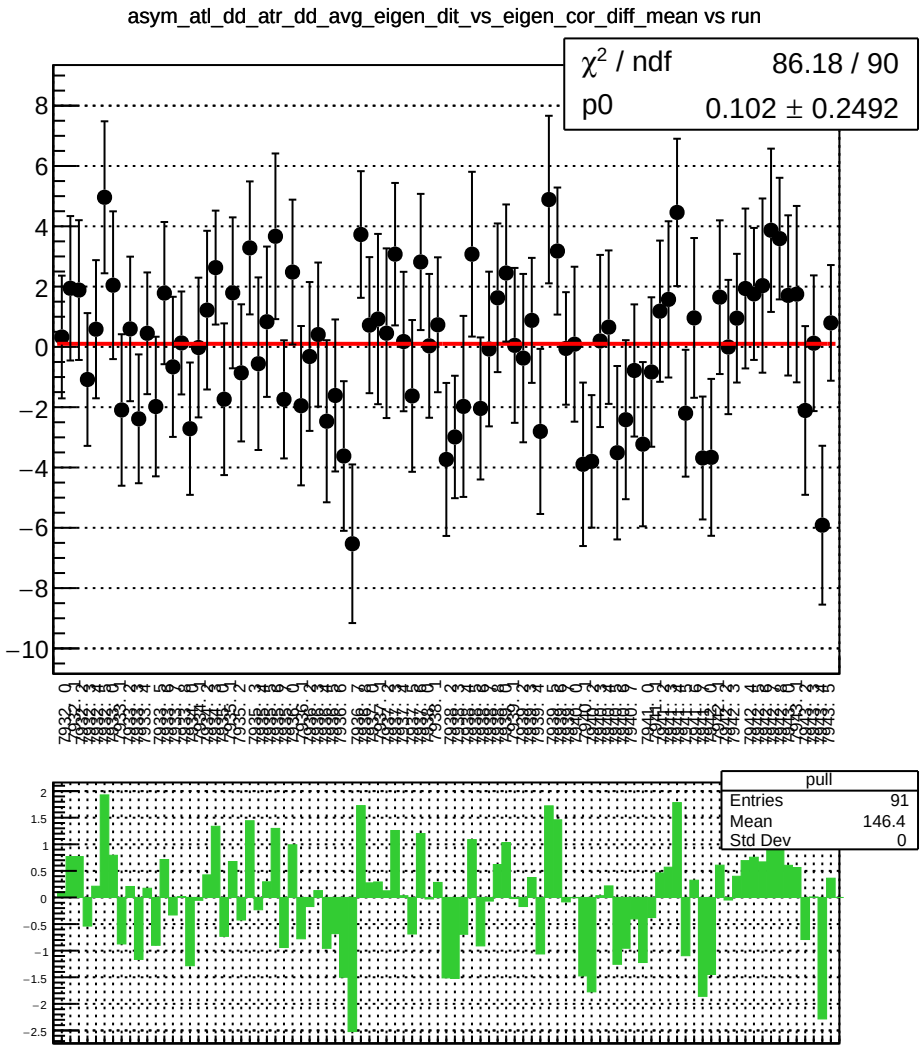

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.7 / 90
p0 5.752e−06 ± 9.849e−06
pull
Entries 91
Mean 286
Std Dev 0
pull1D
Entries 91
Mean −0.002879
Std Dev 1.088

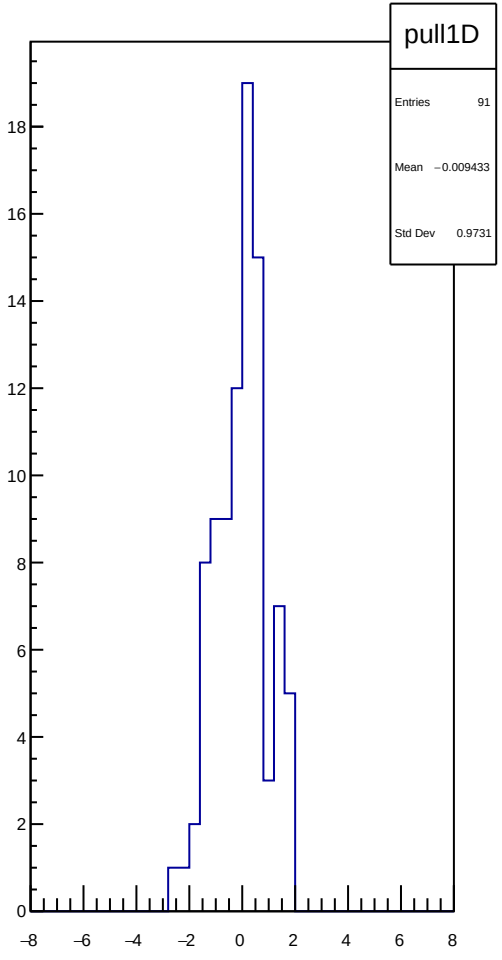

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1117 / 90
p0 0.009205 ± 6.964e−06
0.0105
0.01
0.0095
0.009
0.0085

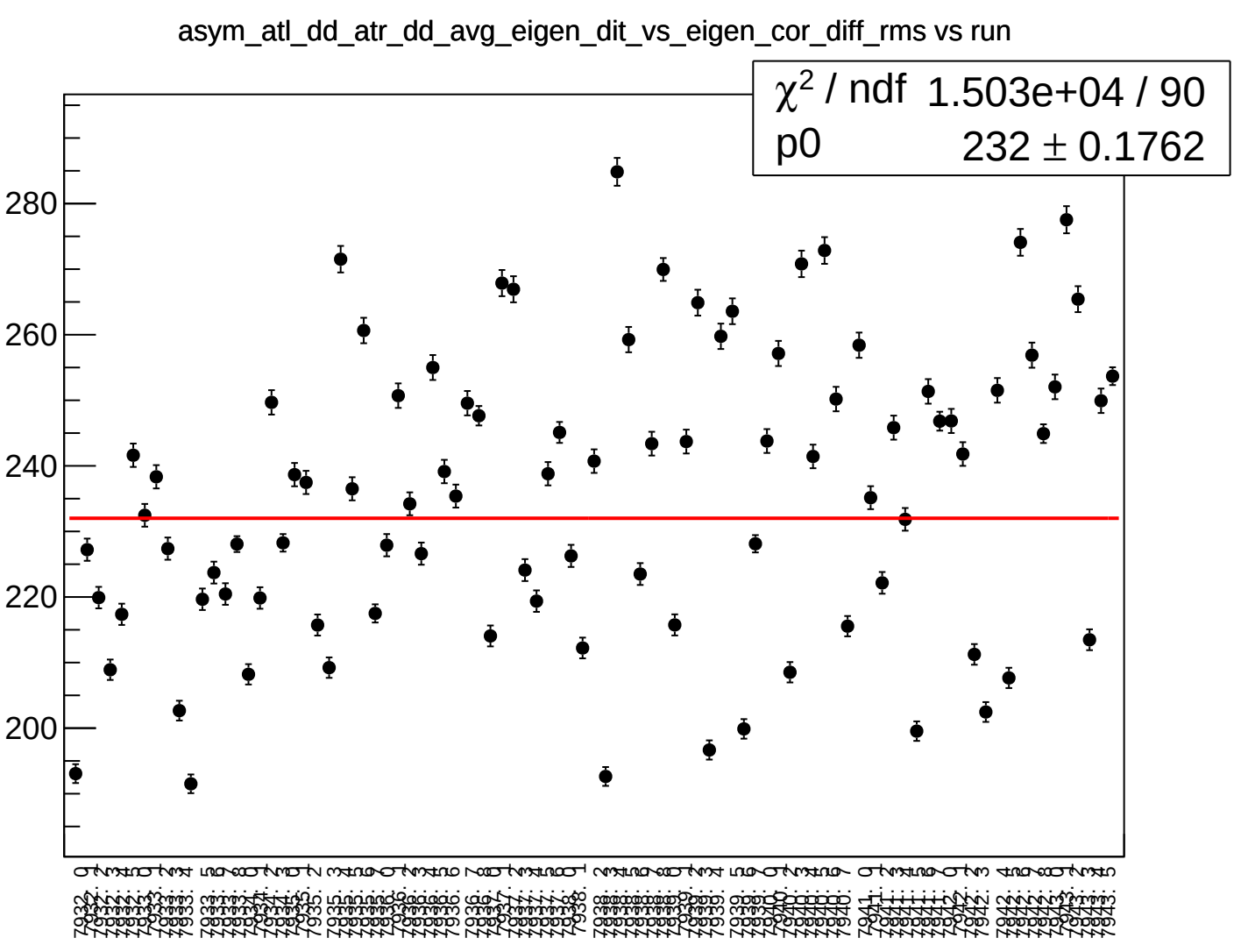

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

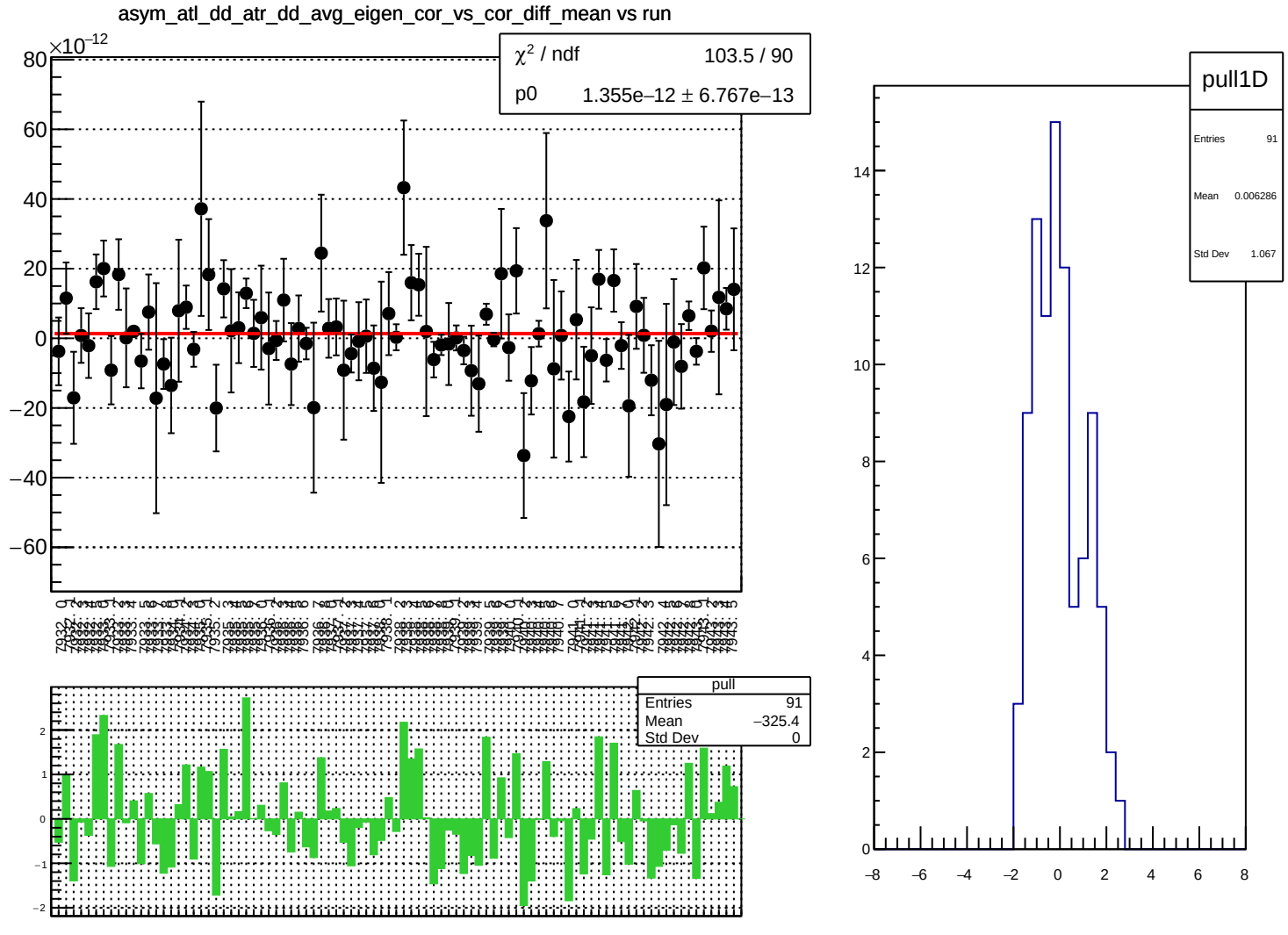

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

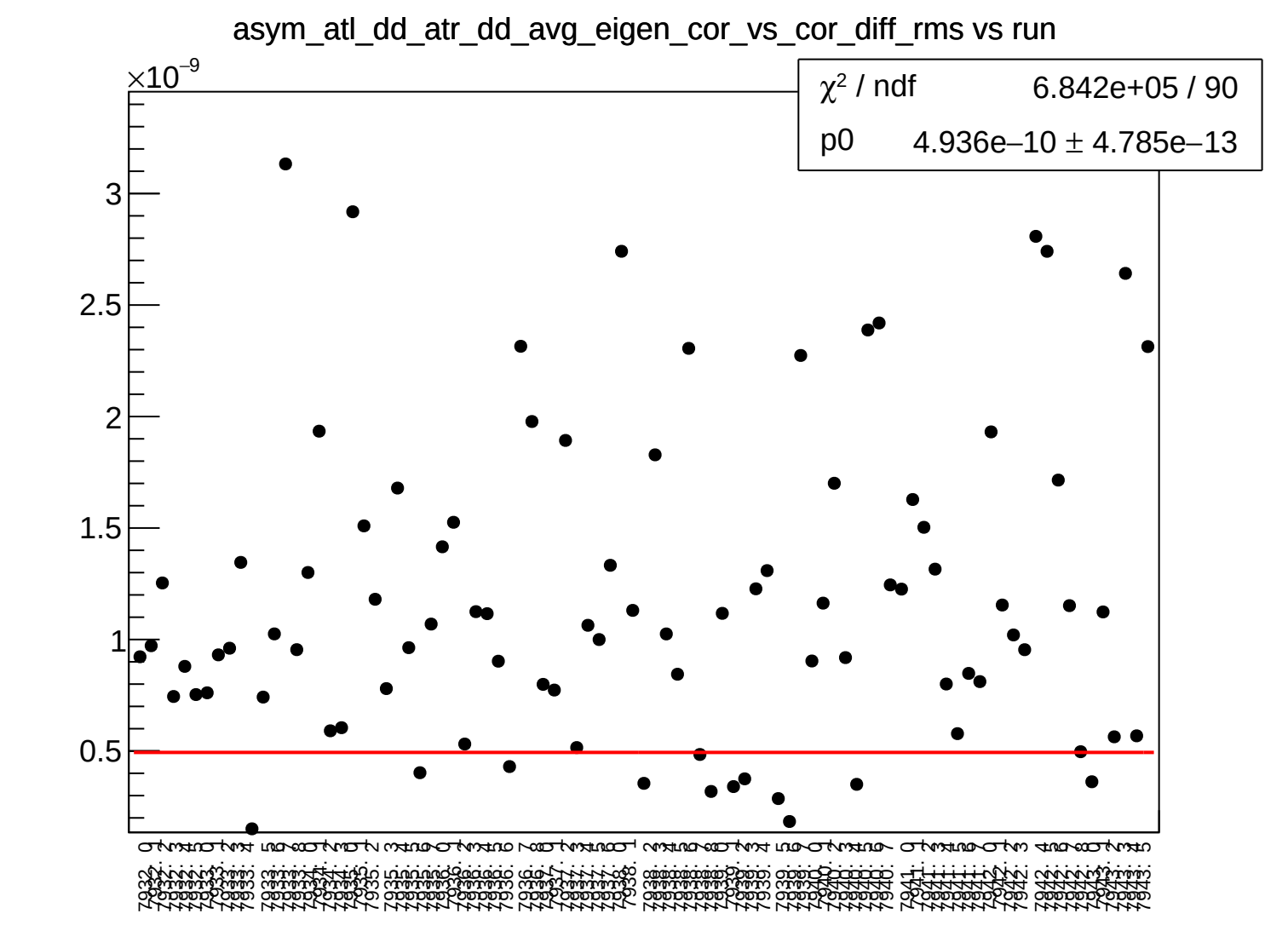

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

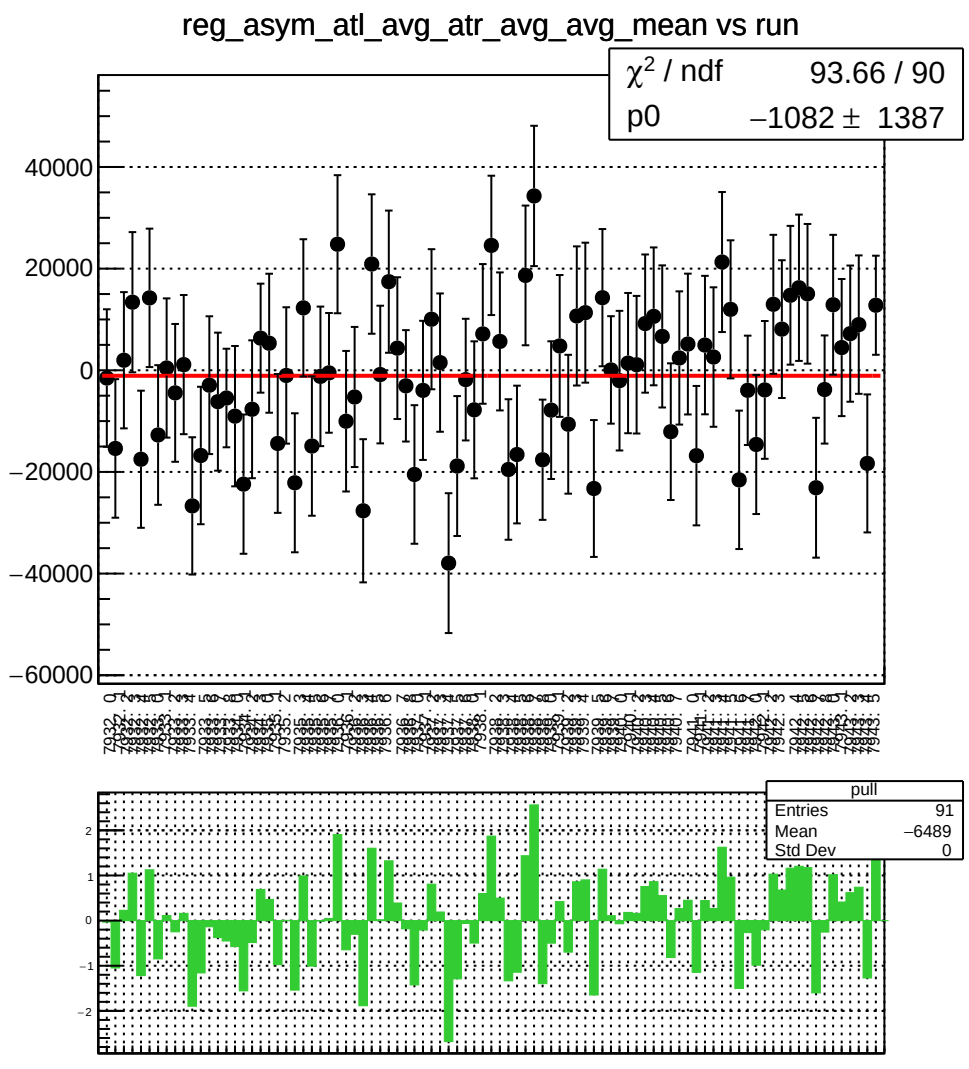

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

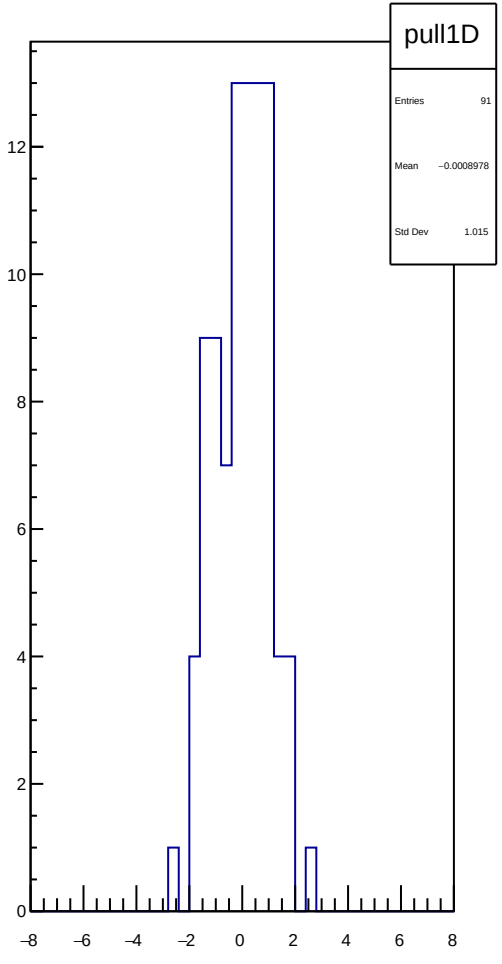

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

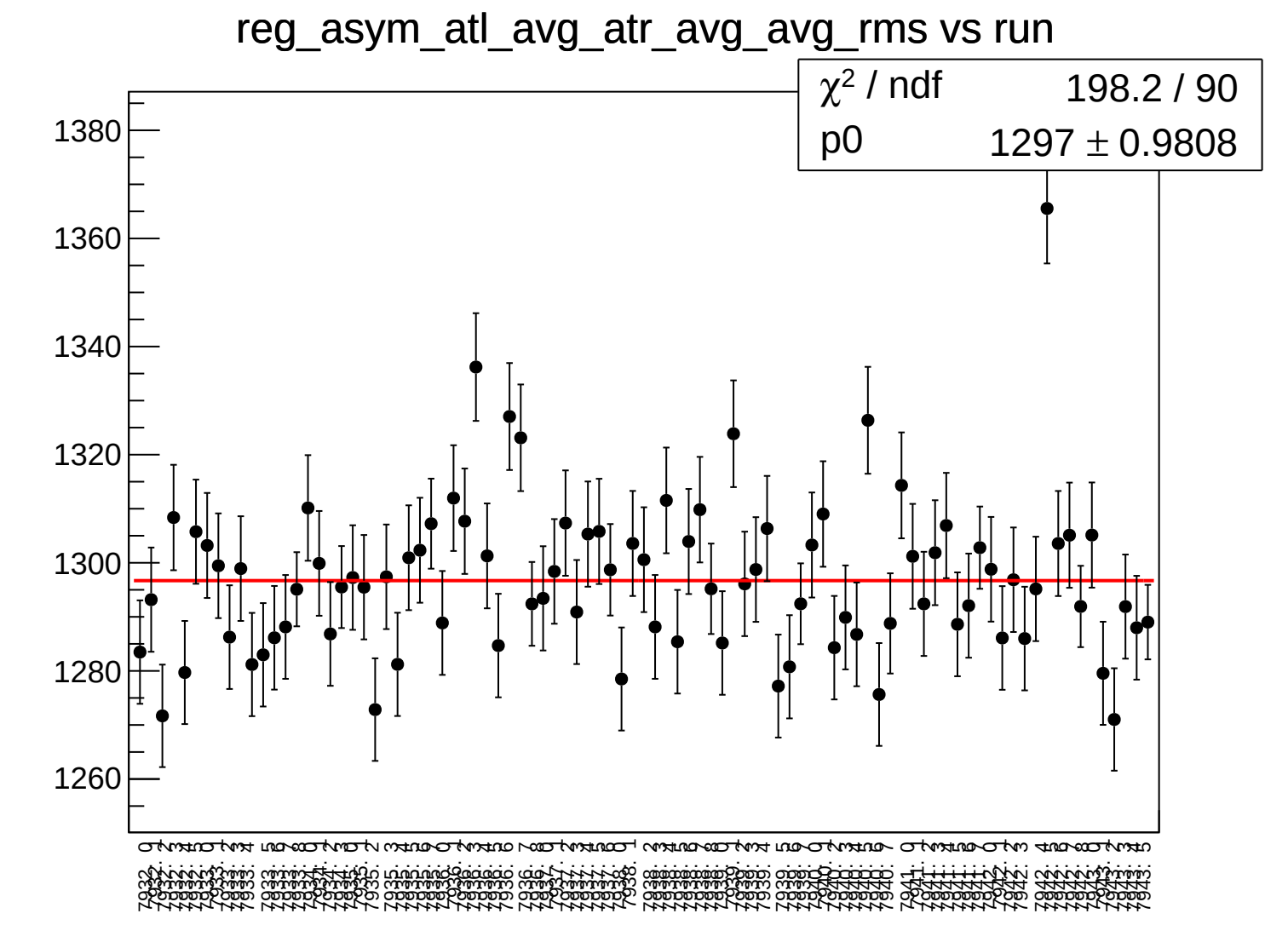

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

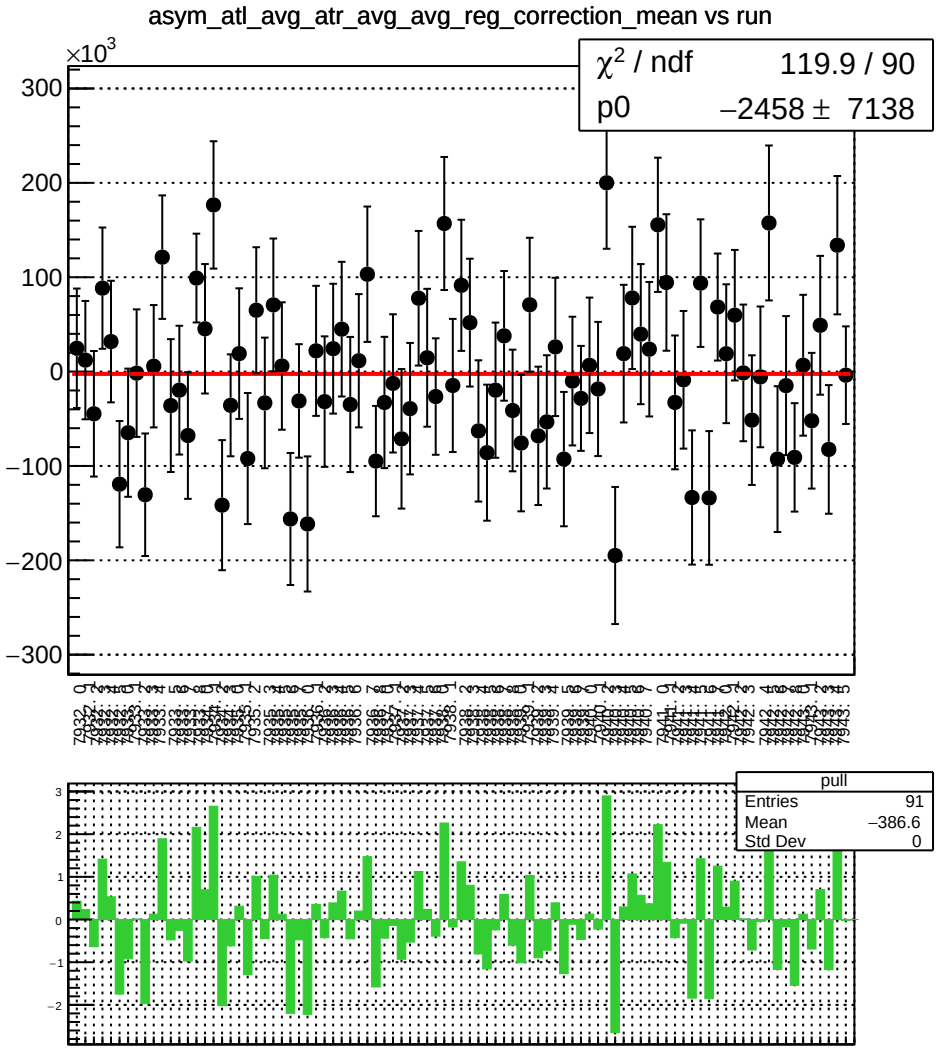

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.5 / 90
p0 1.355e−12 ± 6.767e−13
pull
Entries 91
Mean −325.4
Std Dev 0
pull1D
Entries 91
Mean 0.006286
Std Dev 1.067

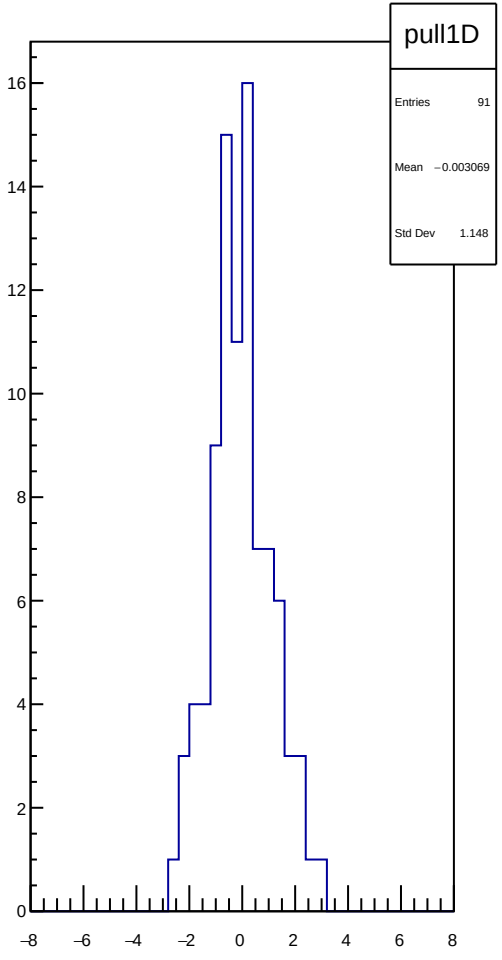

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.842e+05 / 90
p0 4.936e−10 ± 4.785e−13
3
2.5
2
1.5
1
0.5

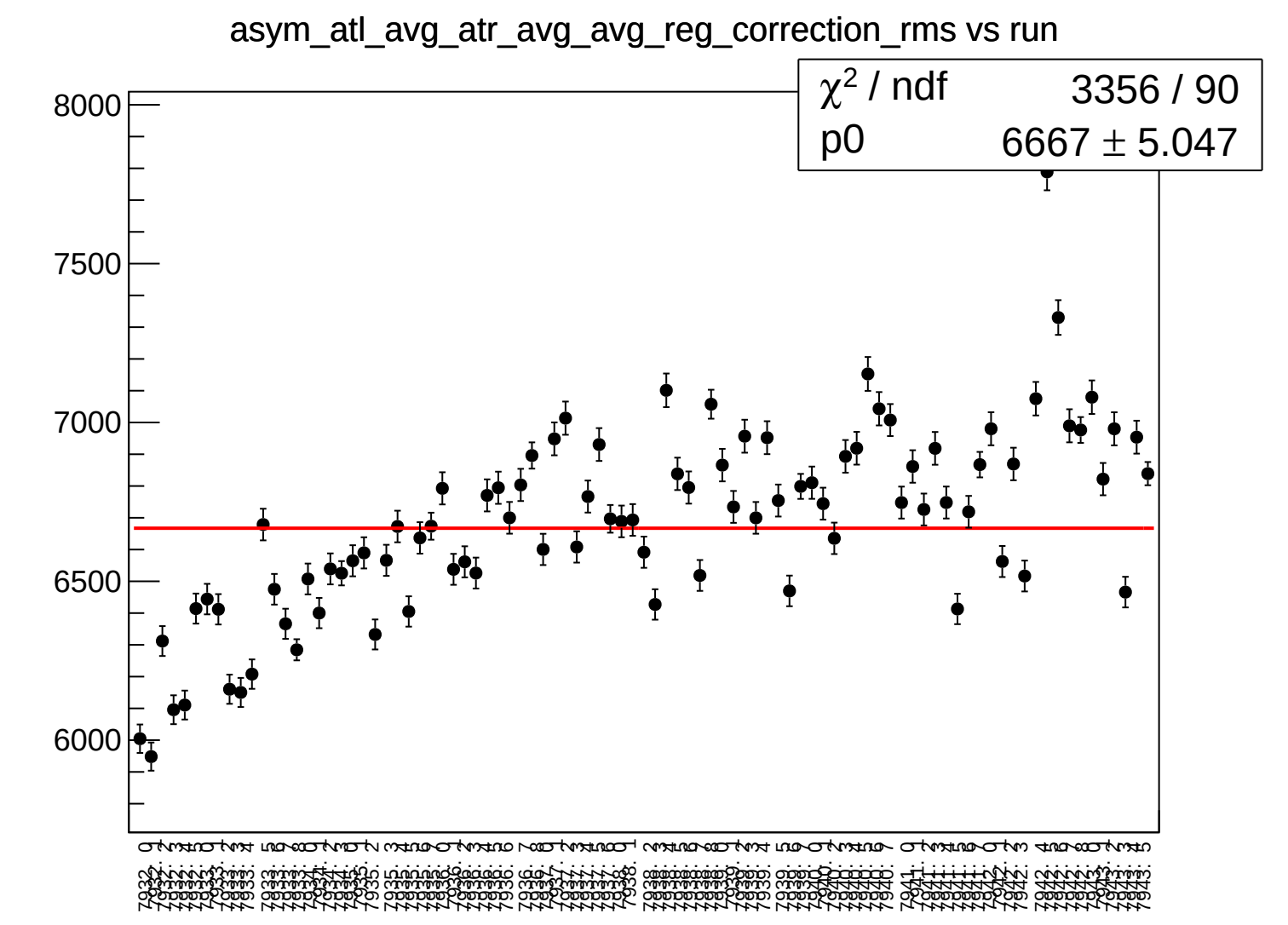

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.66 / 90
p0 −1082 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −6489
Std Dev 0
2
1
0
−1
−2

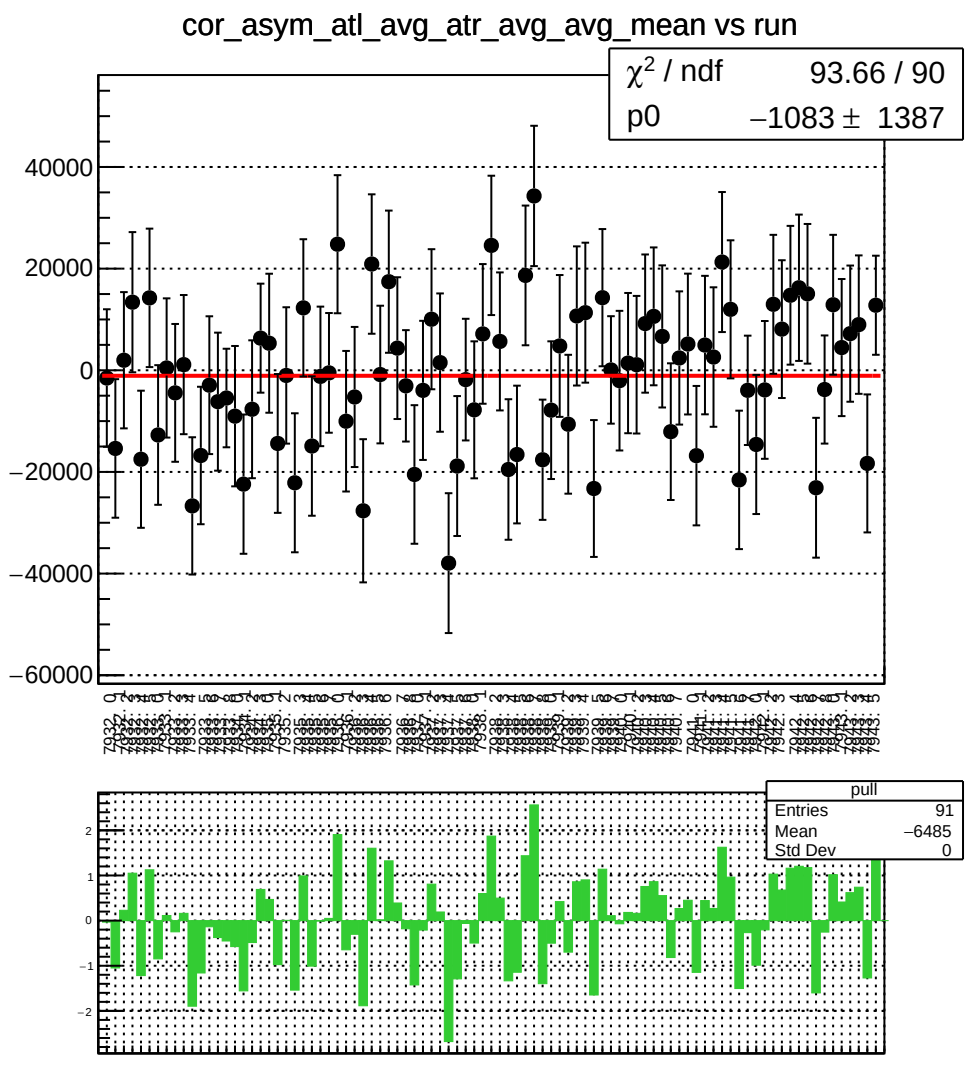

pull1D
Entries 91
Mean −0.0008978
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

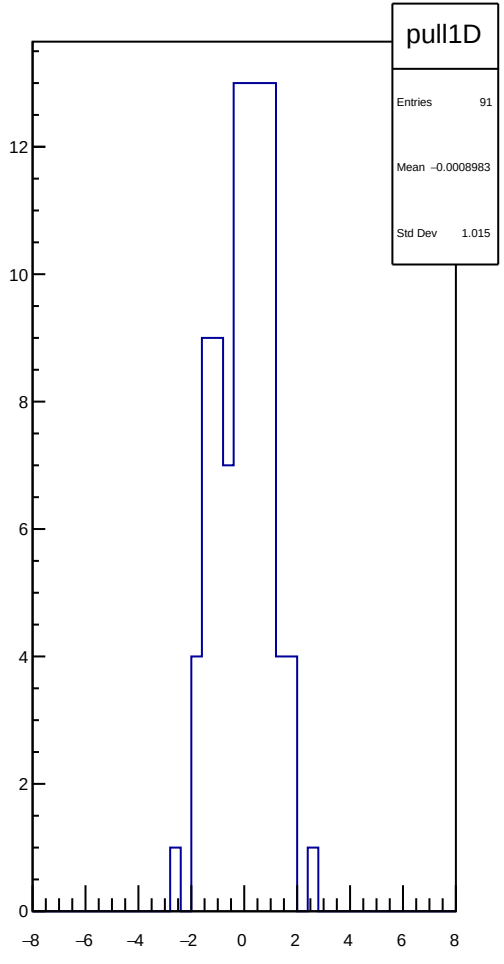

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 198.2 / 90
p0 1297 ± 0.9808
1380
1360
1340
1320
1300
1280
1260

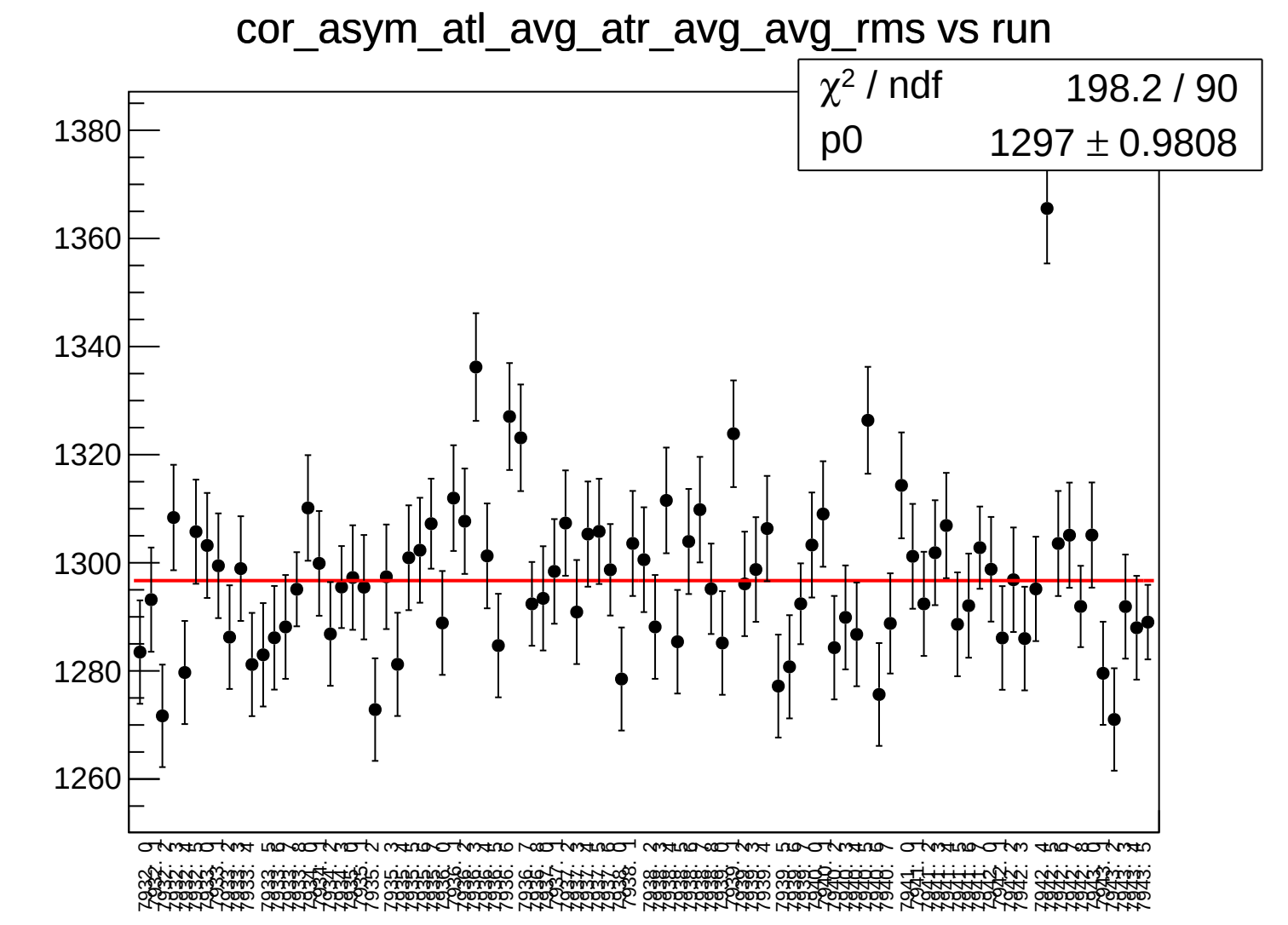

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −2458 ± 7138
pull
Entries 91
Mean −386.6
Std Dev 0

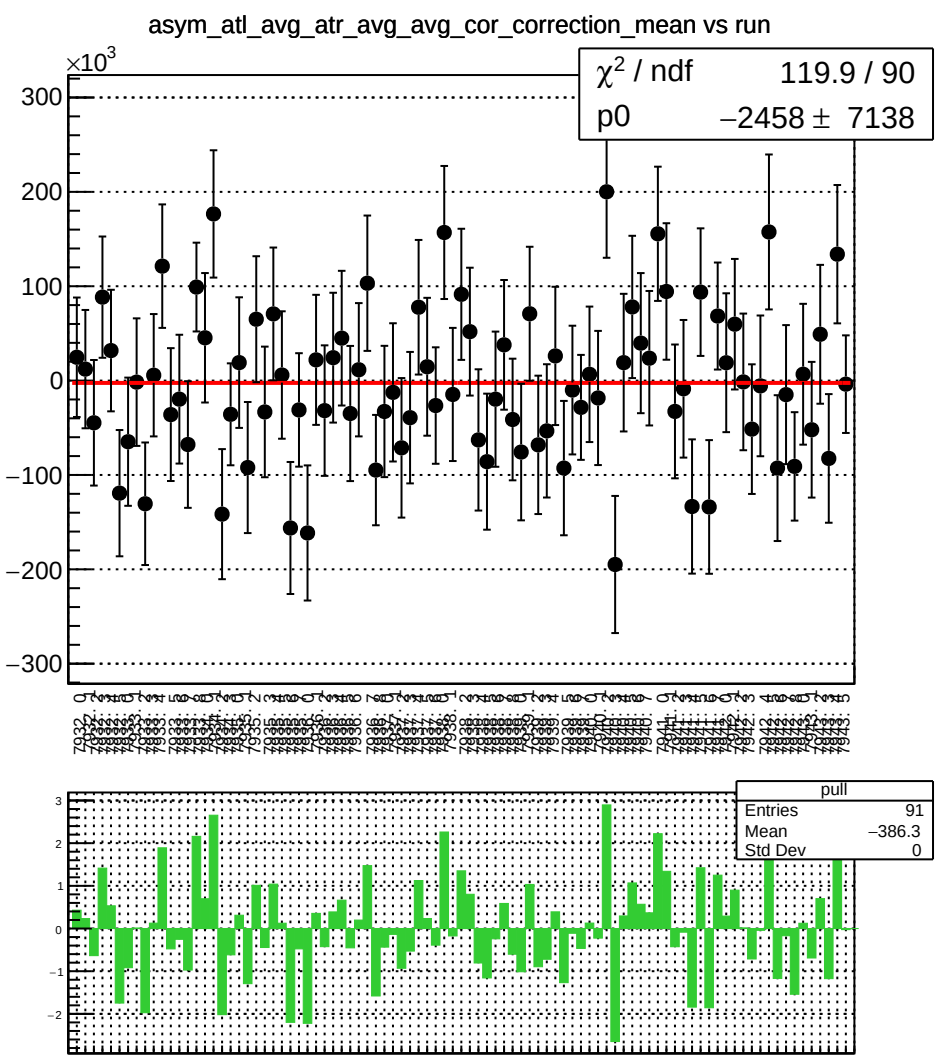

pull1D
Entries 91
Mean −0.003069
Std Dev 1.148

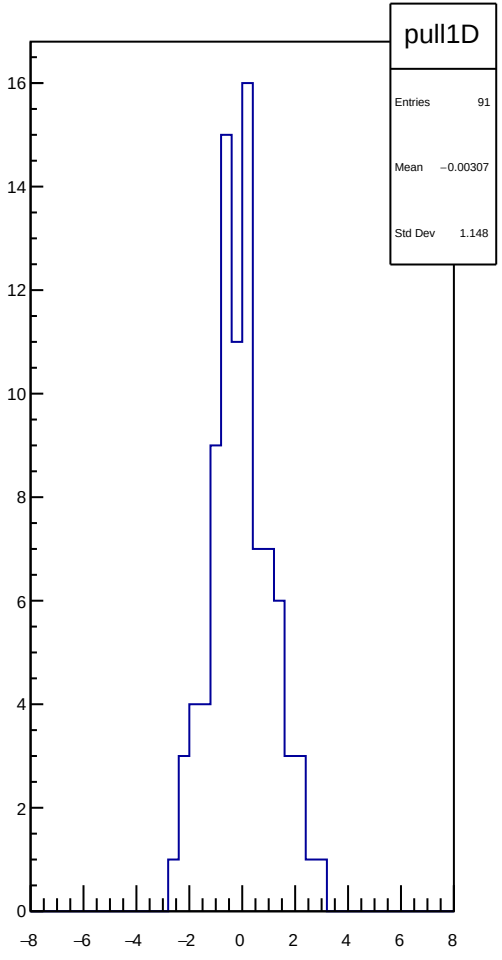

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3356 / 90
p0 6667 ± 5.047
8000
7500
7000
6500
6000

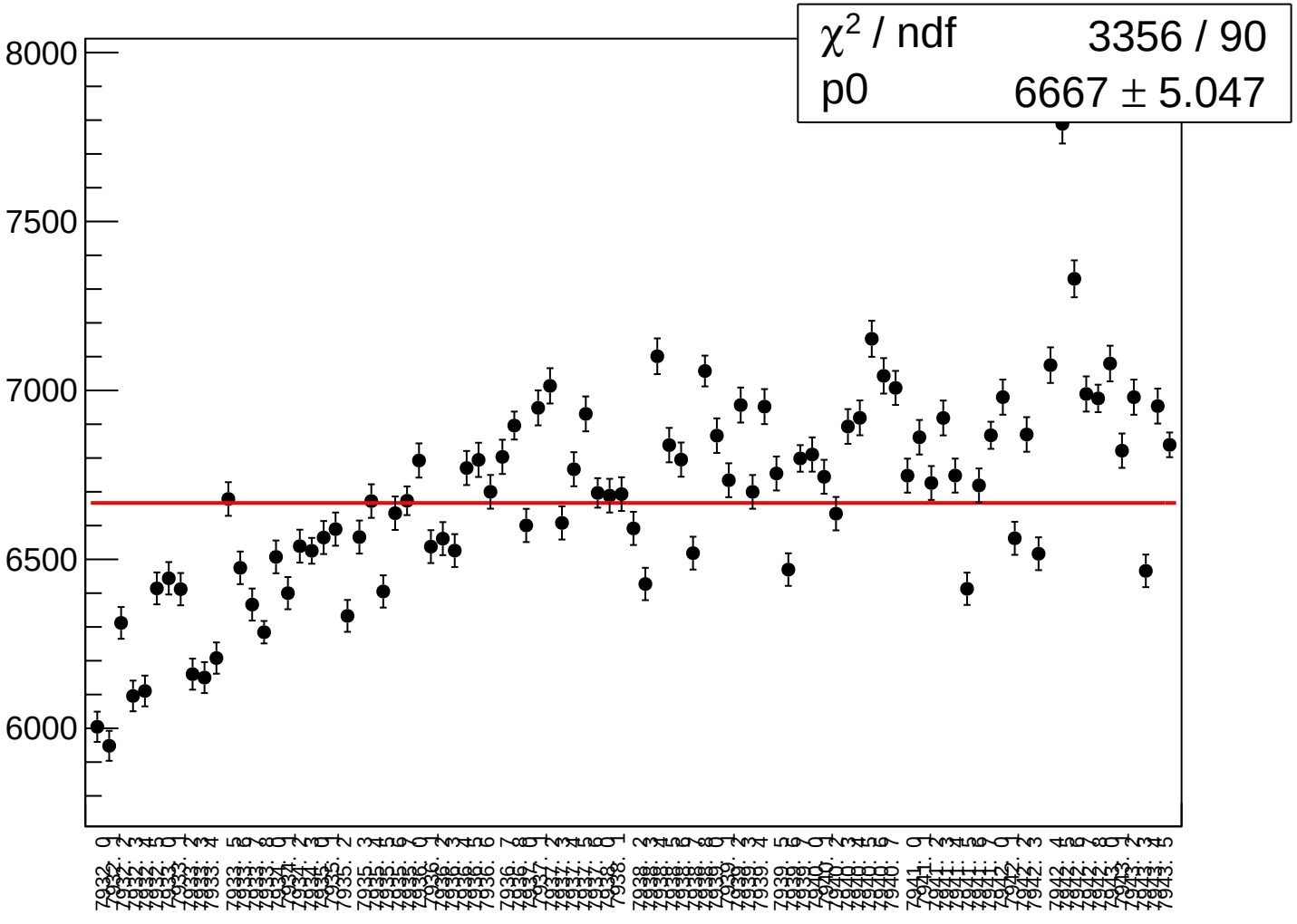

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.66 / 90
p0 −1083 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −6485
Std Dev 0
2
1
0
−1
−2

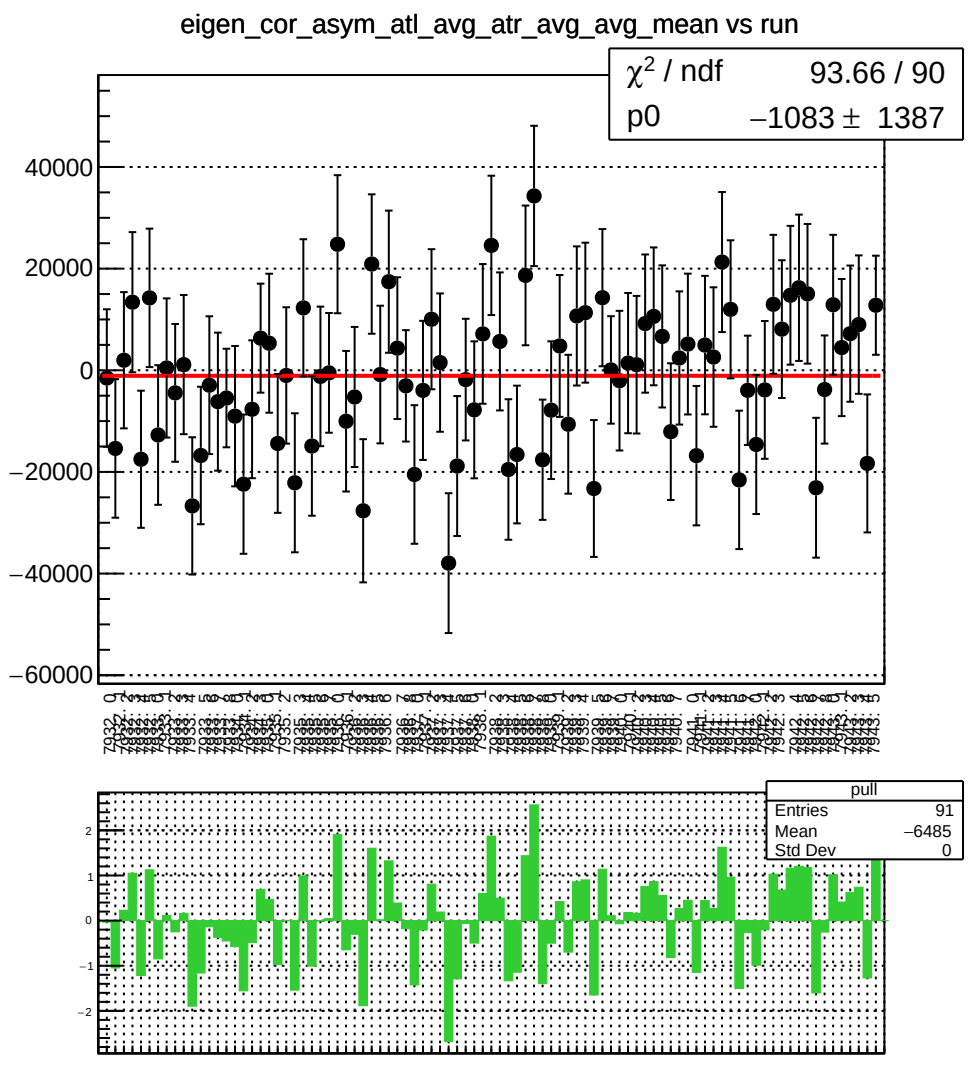

pull1D
Entries 91
Mean −0.0008983
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

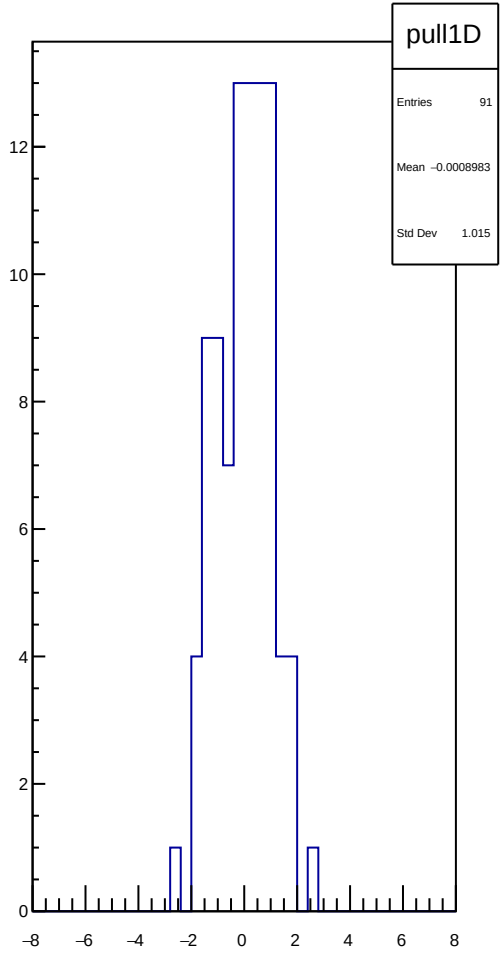

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 198.2 / 90
p0 1297 ± 0.9808
1380
1360
1340
1320
1300
1280
1260

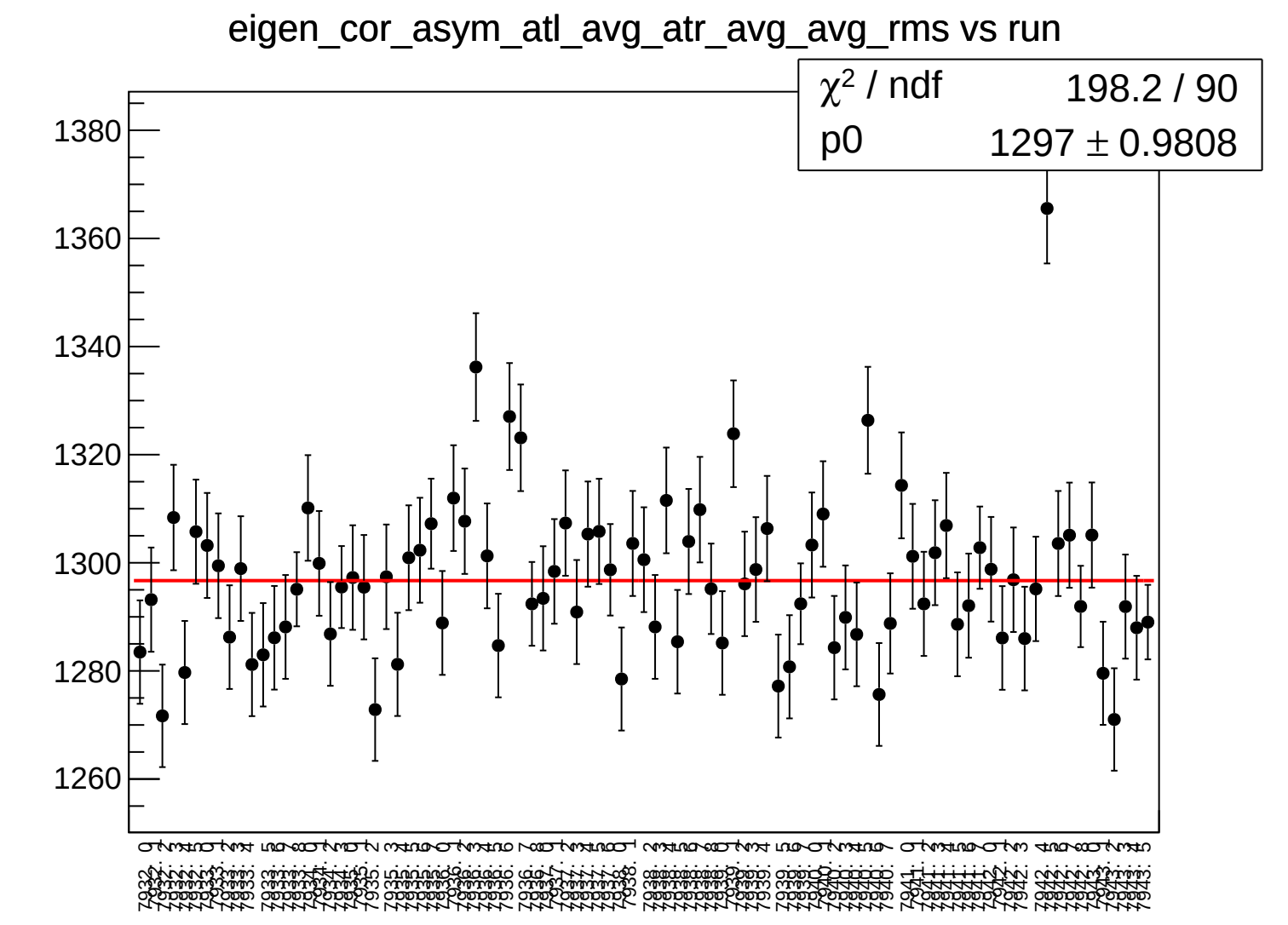

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −2458 ± 7138
pull
Entries 91
Mean −386.3
Std Dev 0

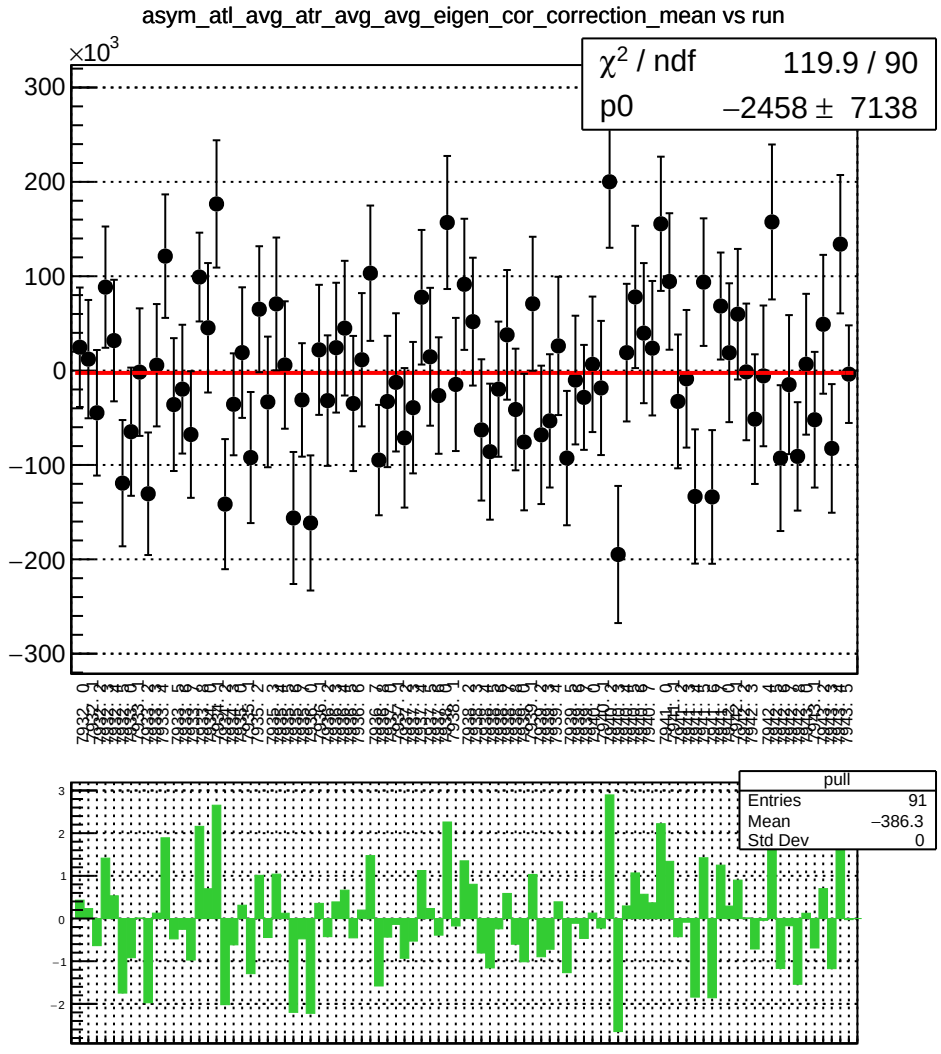

pull1D
Entries 91
Mean −0.00307
Std Dev 1.148

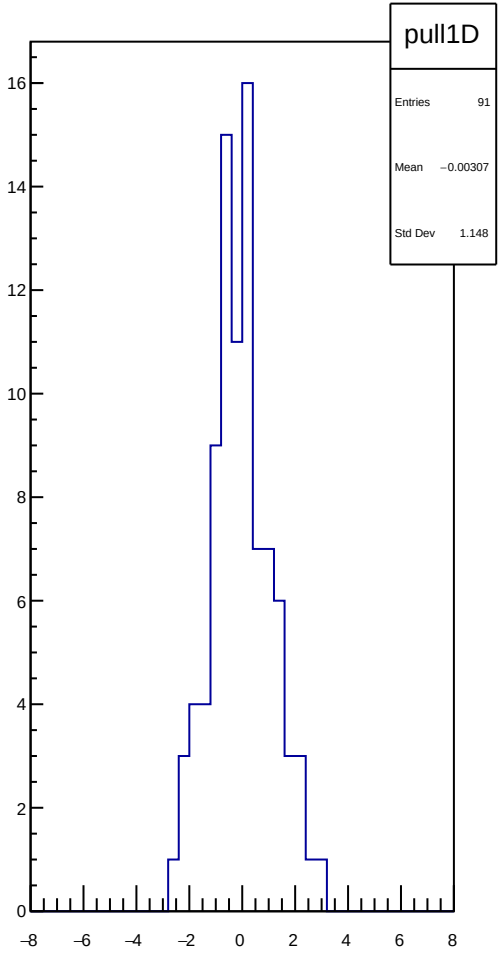

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3356 / 90
p0 6667 ± 5.047
8000
7500
7000
6500
6000

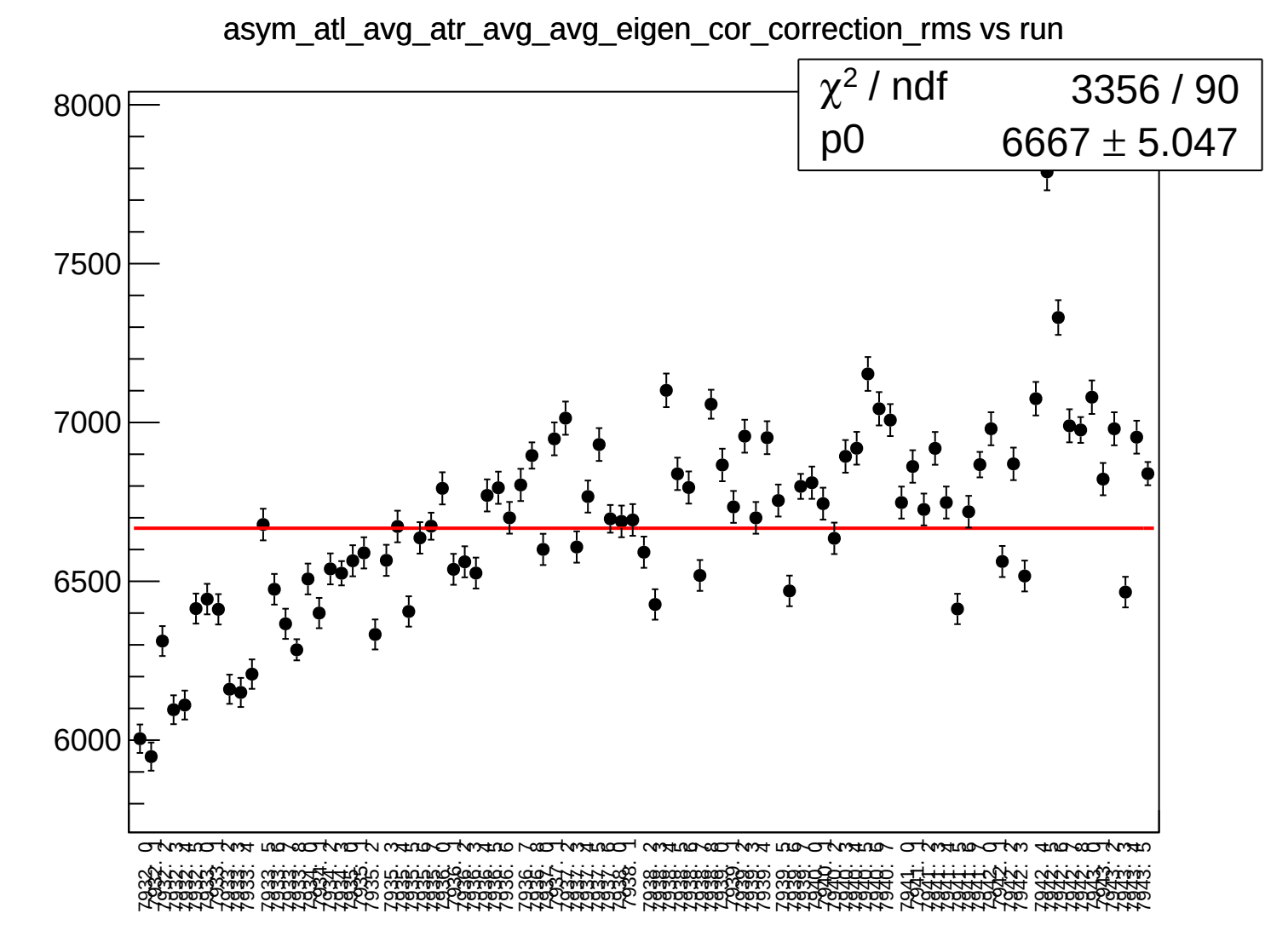

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.66 / 90
p0 −1083 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −6485
Std Dev 0
2
1
0
−1
−2

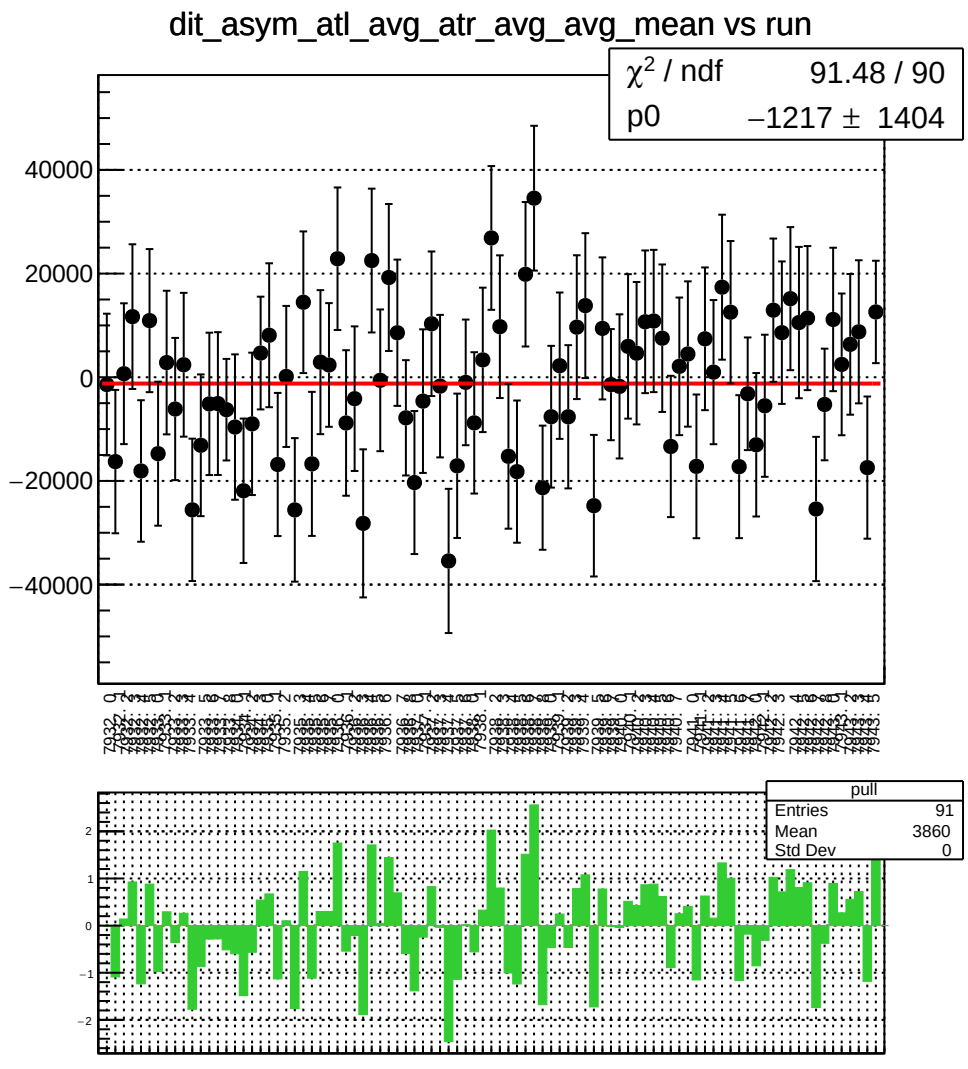

pull1D
Entries 91
Mean −0.0008983
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

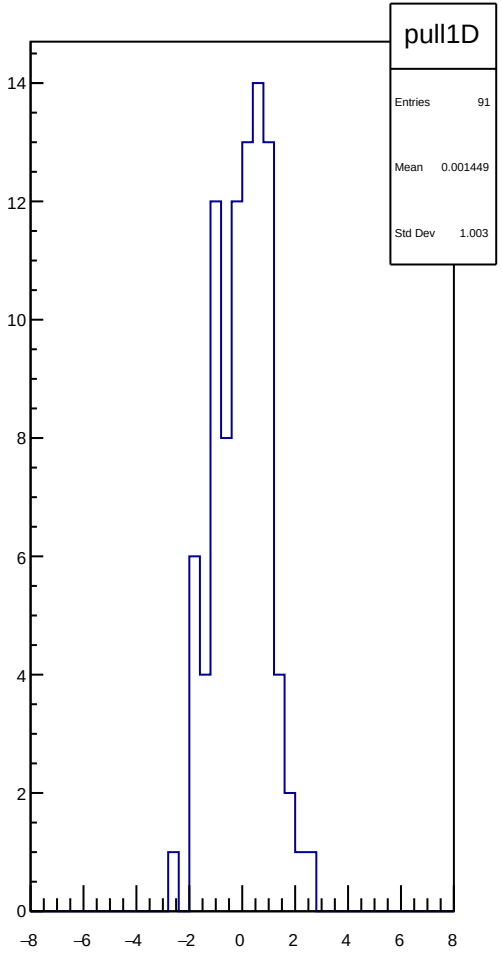

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 198.2 / 90
p0 1297 ± 0.9808
1380
1360
1340
1320
1300
1280
1260

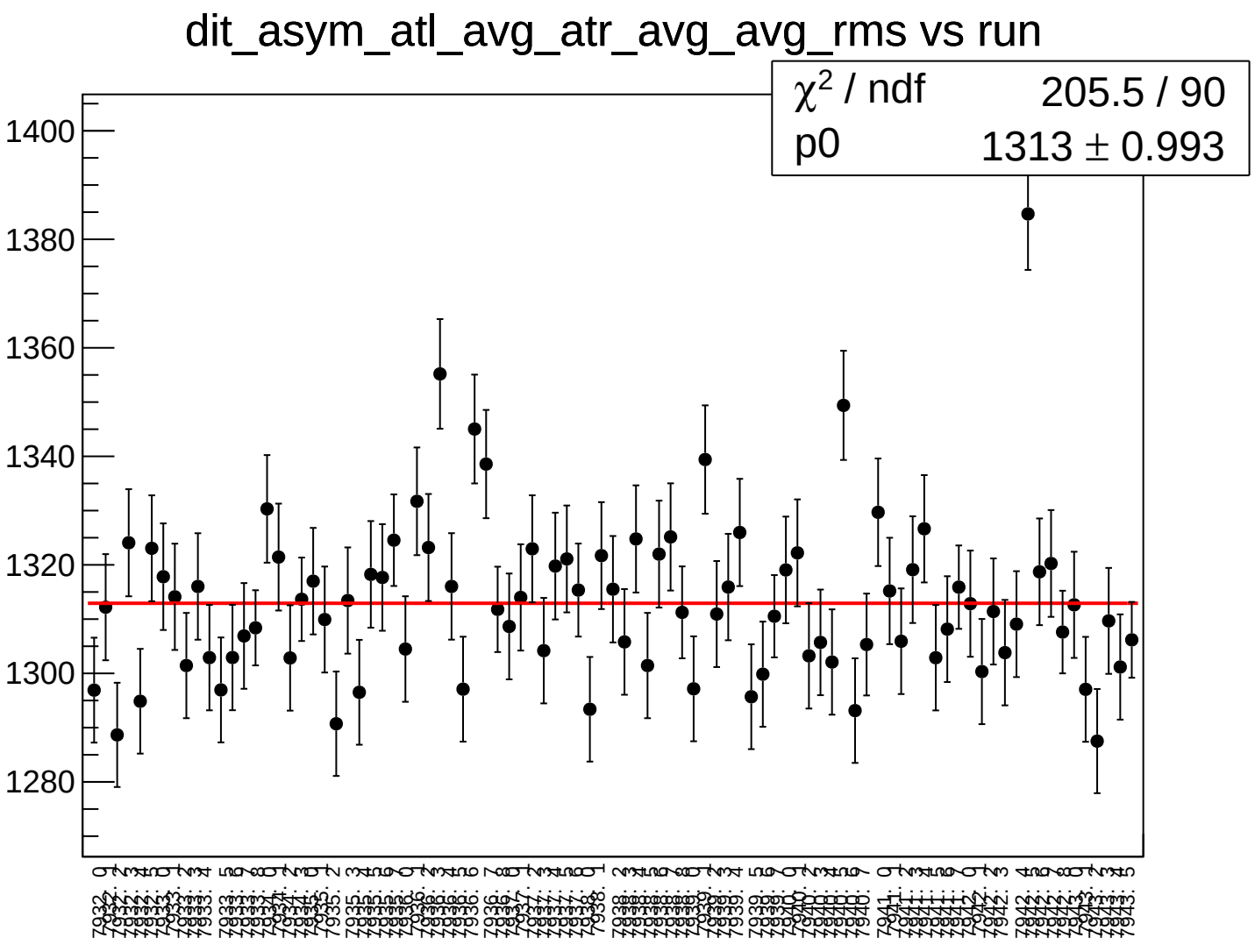

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −2458 ± 7138
pull
Entries 91
Mean −386.3
Std Dev 0

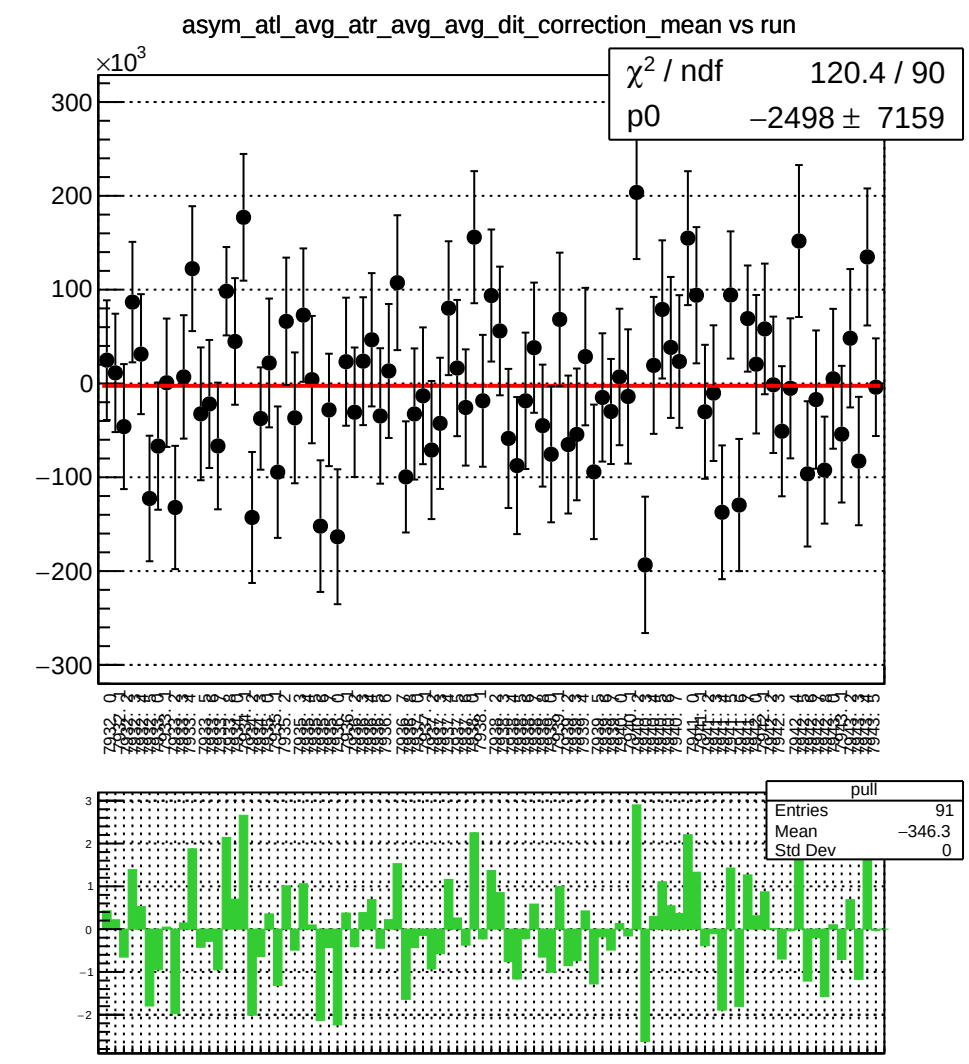

pull1D
Entries 91
Mean −0.00307
Std Dev 1.148

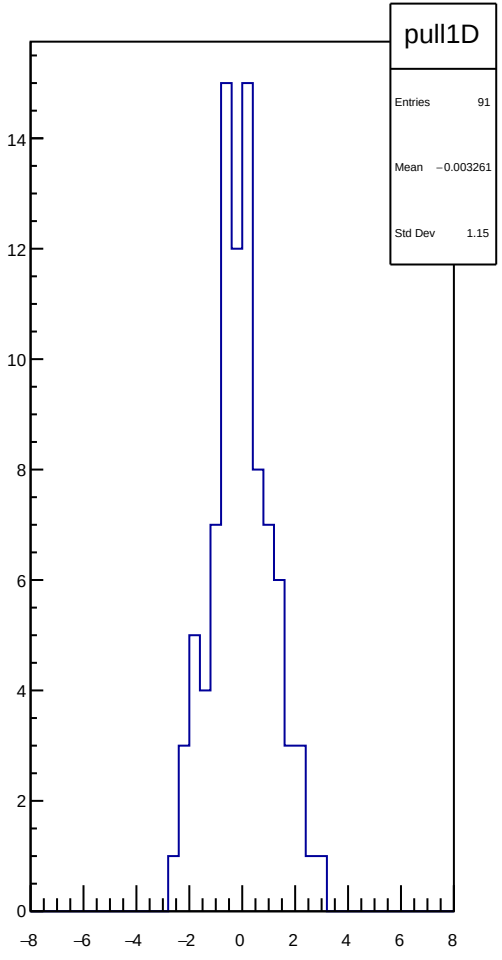

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3356 / 90
p0 6667 ± 5.047
8000
7500
7000
6500
6000

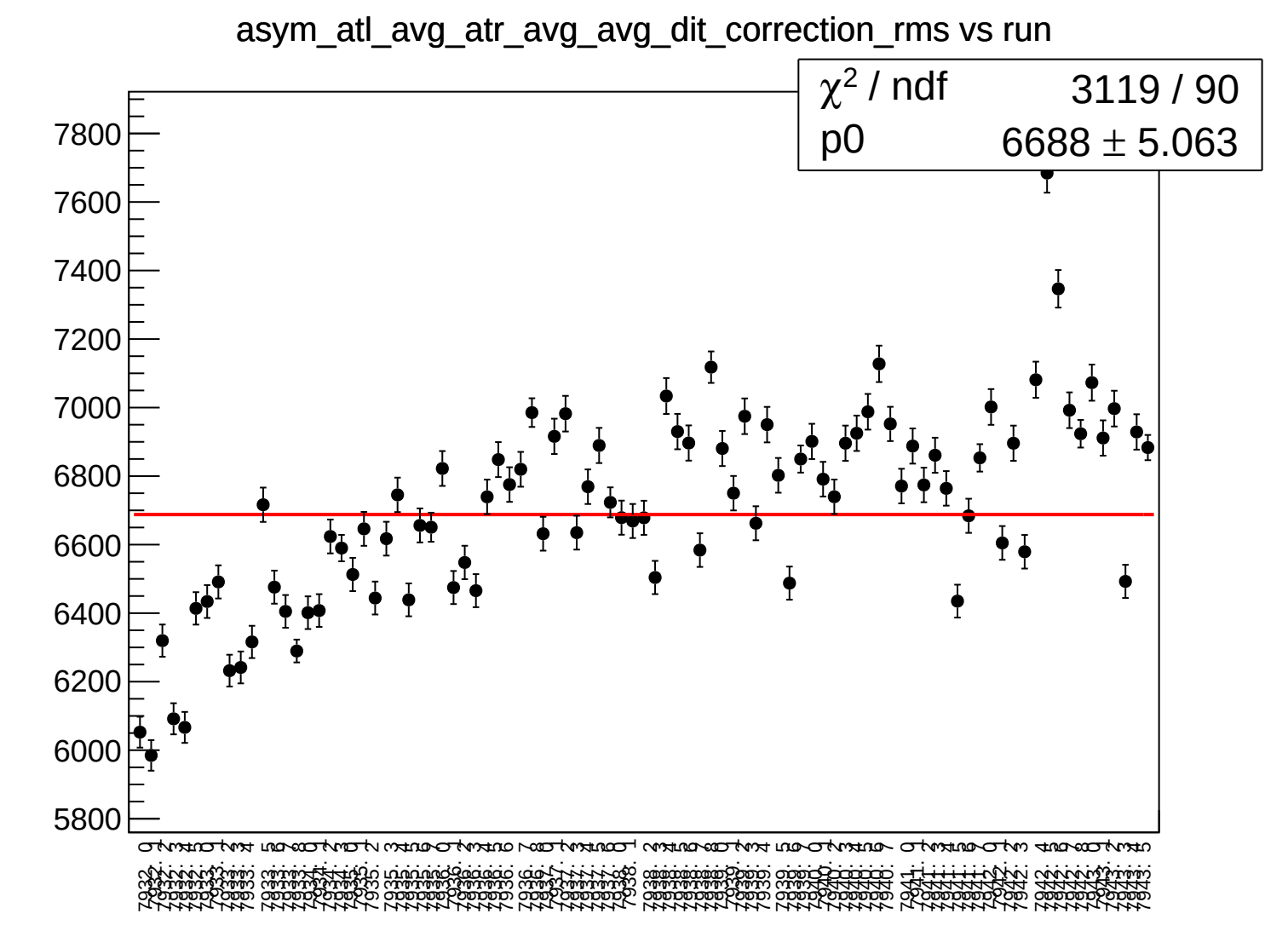

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.48 / 90
p0 −1217 ± 1404
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 3860
Std Dev 0
2
1
0
−1
−2

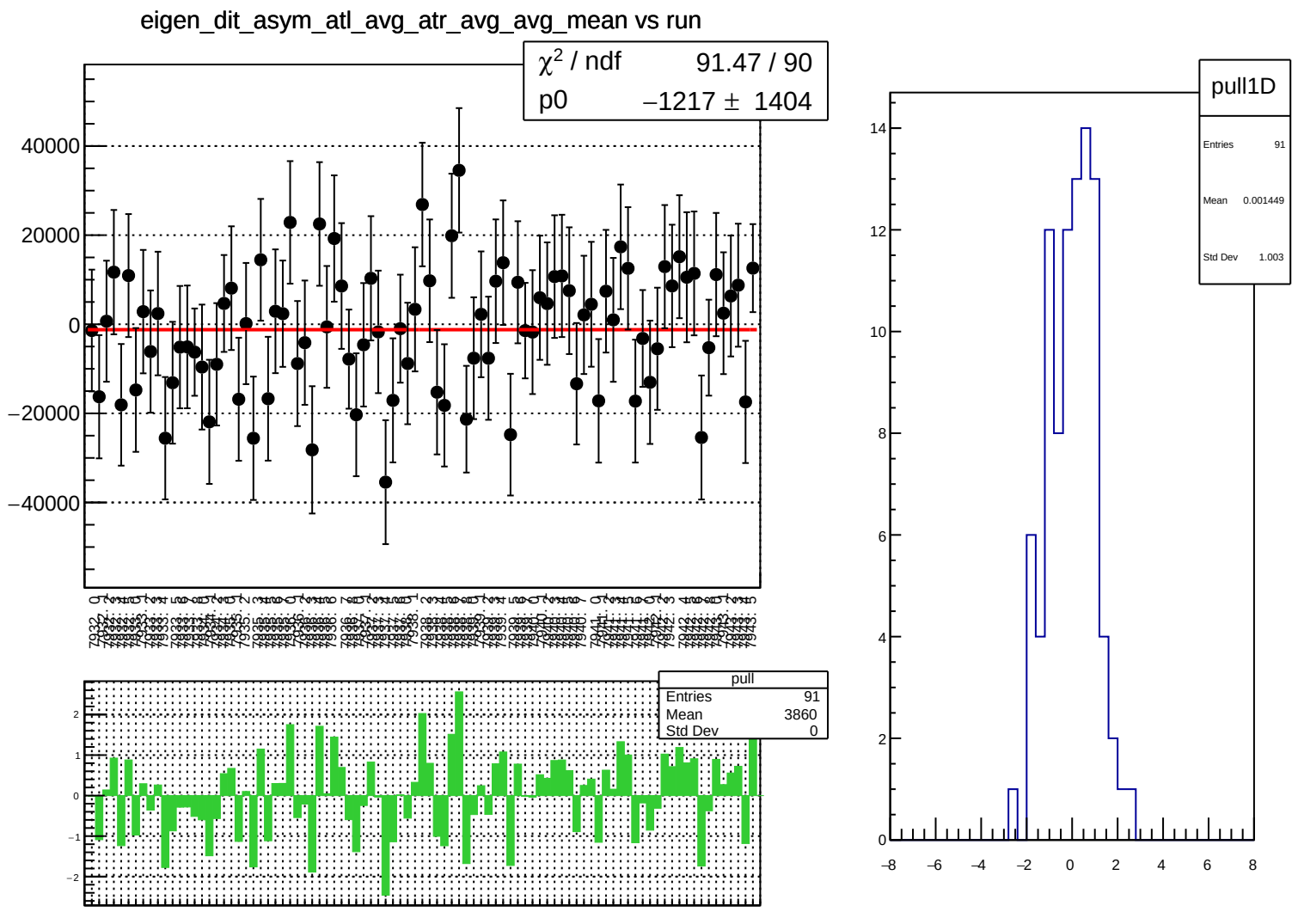

pull1D
Entries 91
Mean 0.001449
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

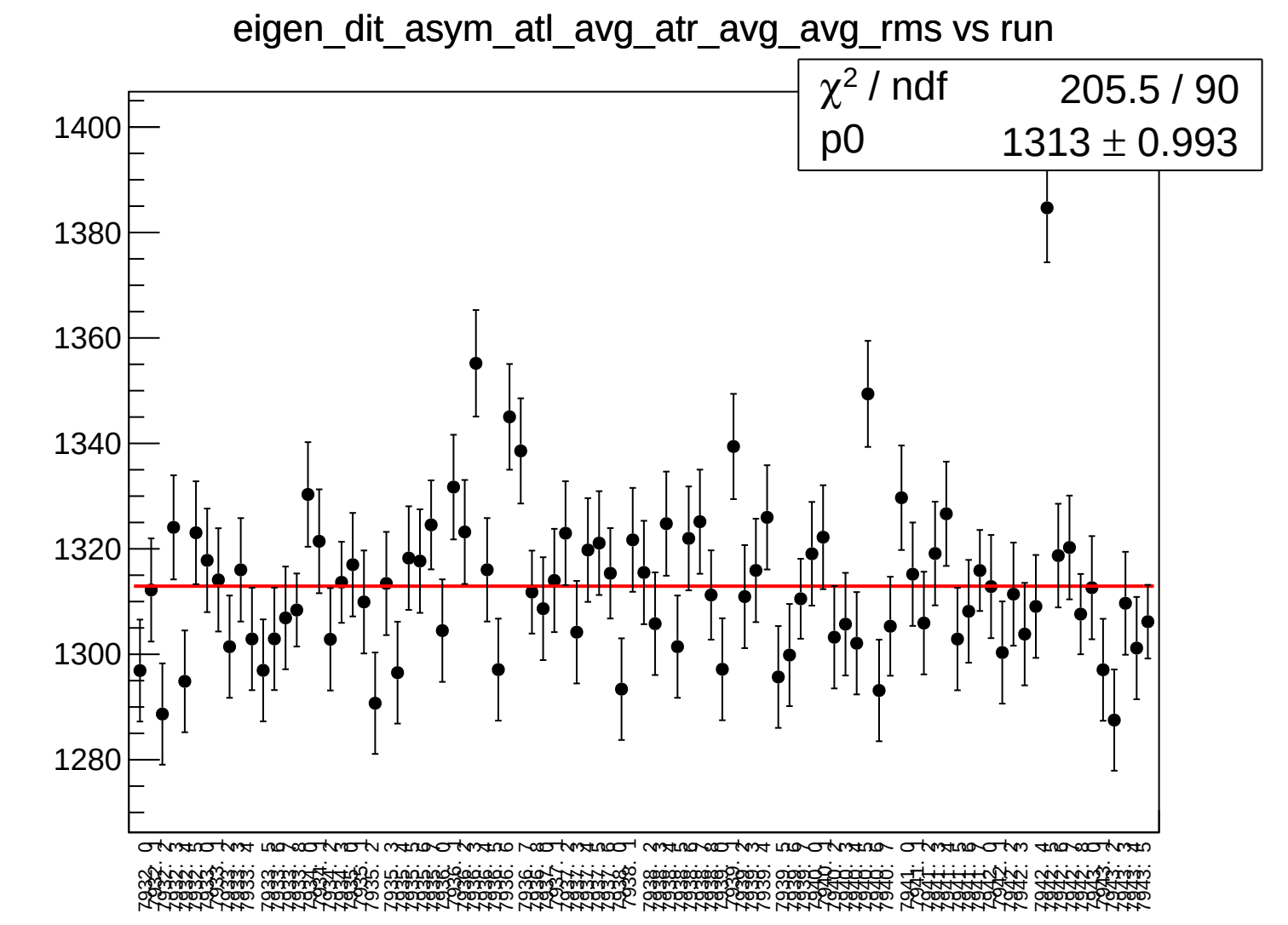

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 205.5 / 90
p0 1313 ± 0.993
1400
1380
1360
1340
1320
1300
1280

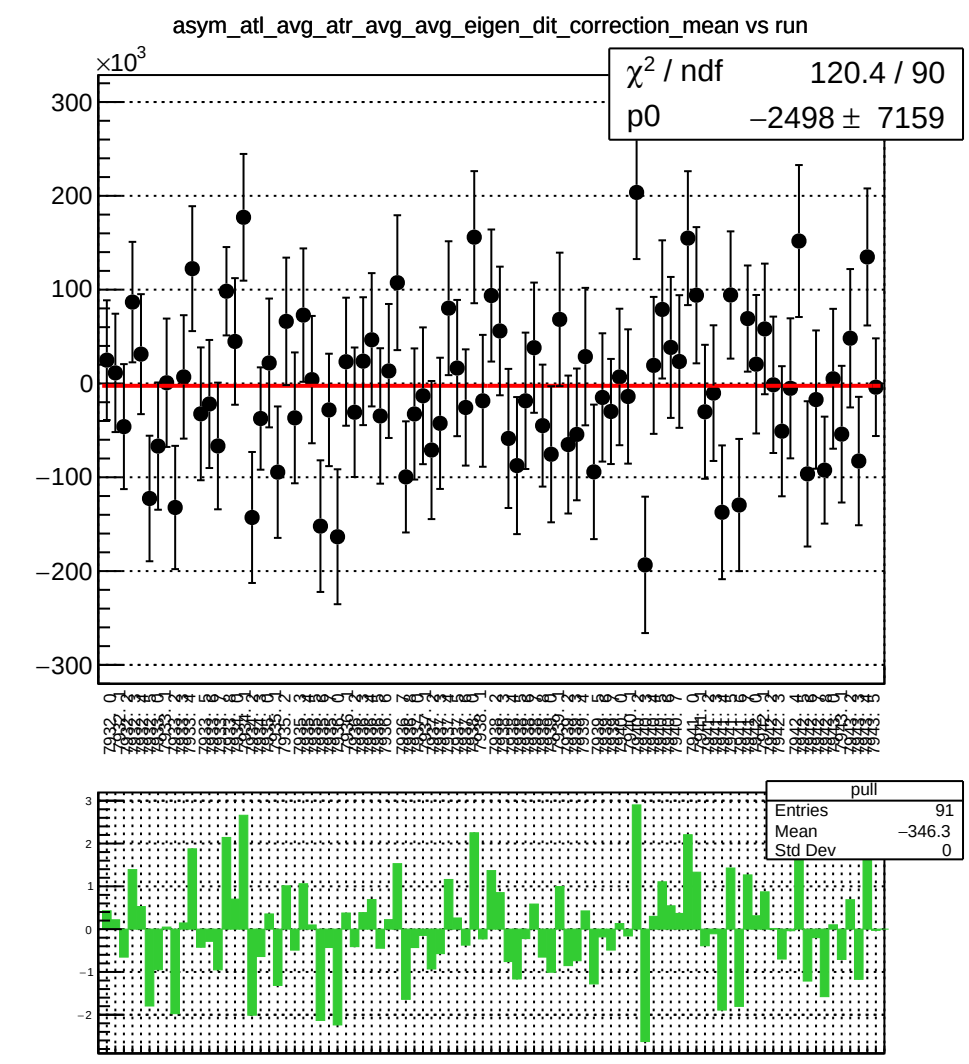

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 −2498 ± 7159
pull
Entries 91
Mean −346.3
Std Dev 0

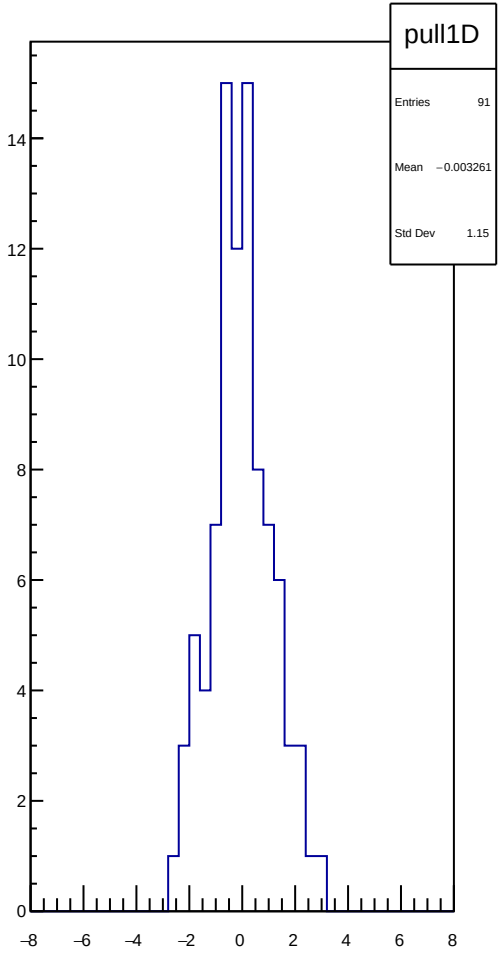

pull1D
Entries 91
Mean −0.003261
Std Dev 1.15

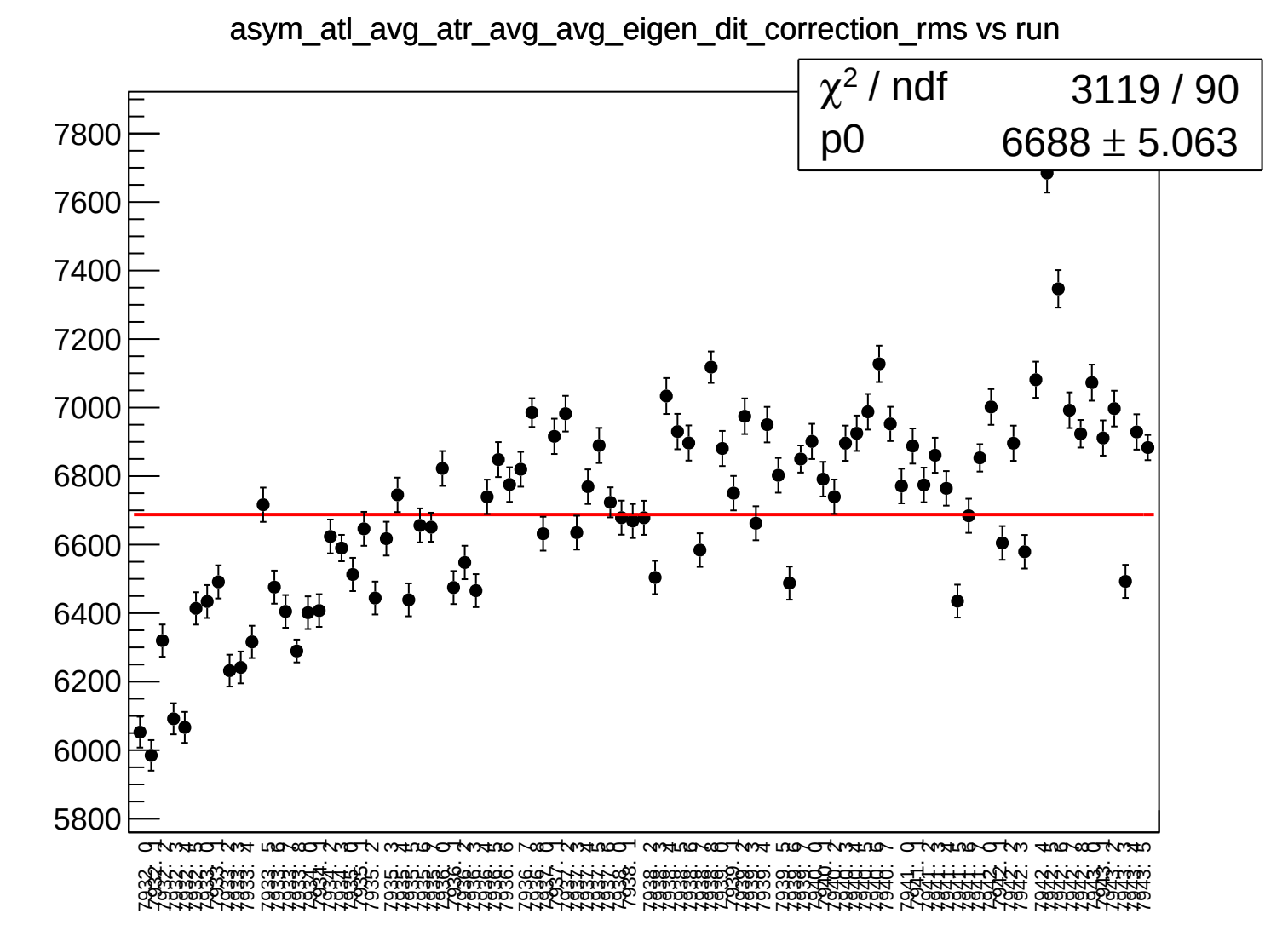

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3119 / 90
p0 6688 ± 5.063
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

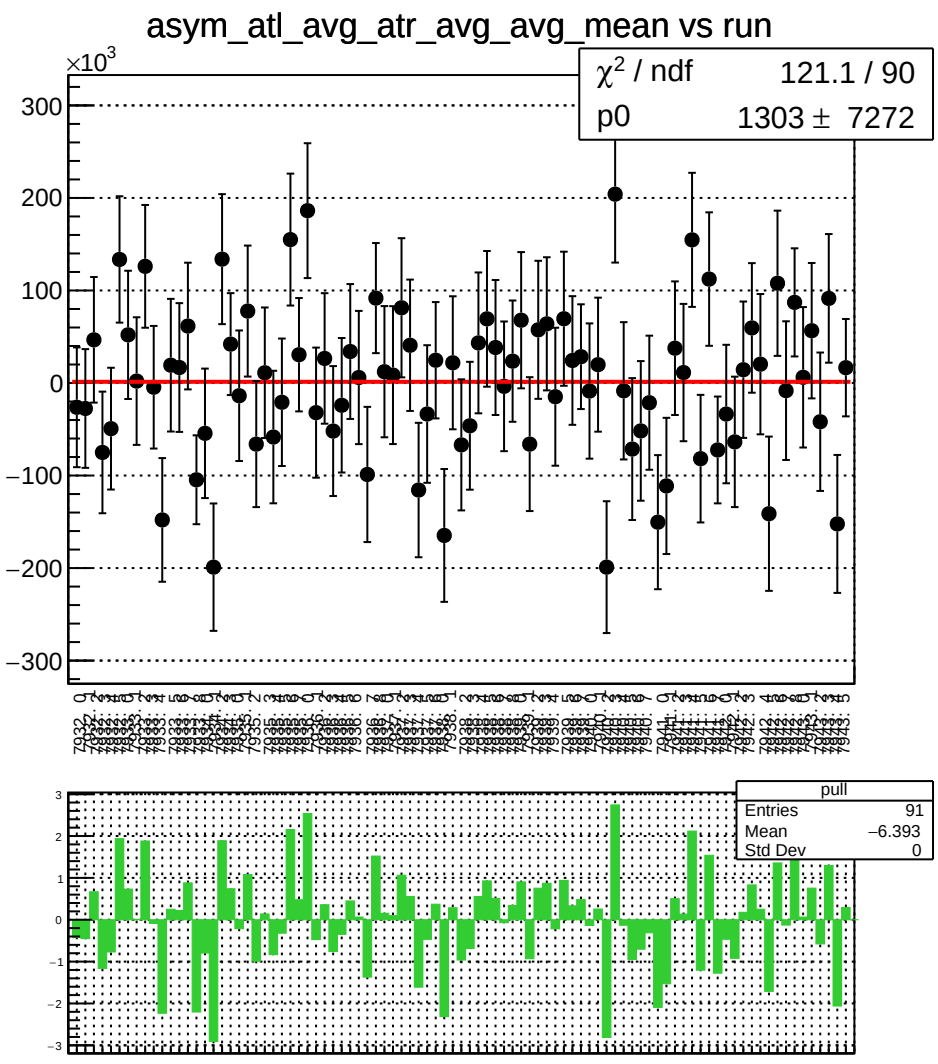

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.47 / 90
p0 −1217 ± 1404
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 3860
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.001449
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

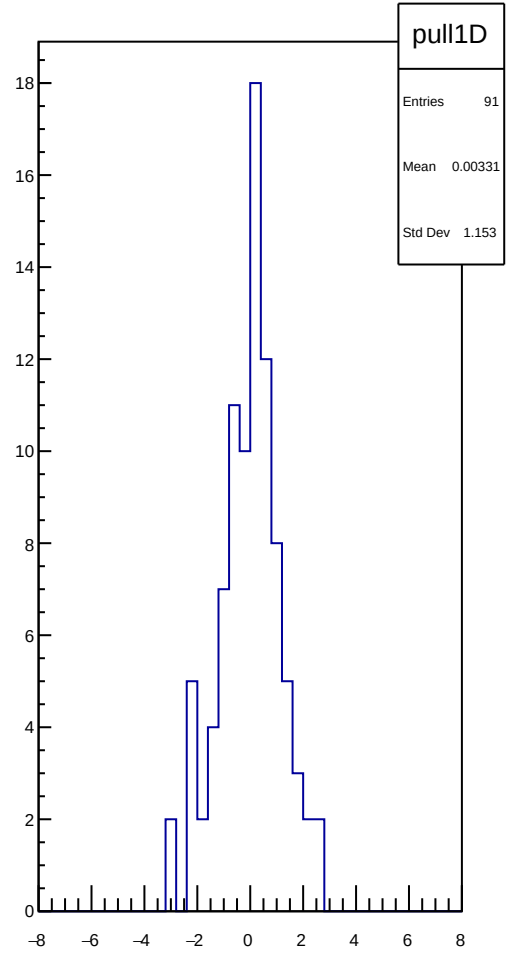

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 205.5 / 90
p0 1313 ± 0.993
1400
1380
1360
1340
1320
1300
1280

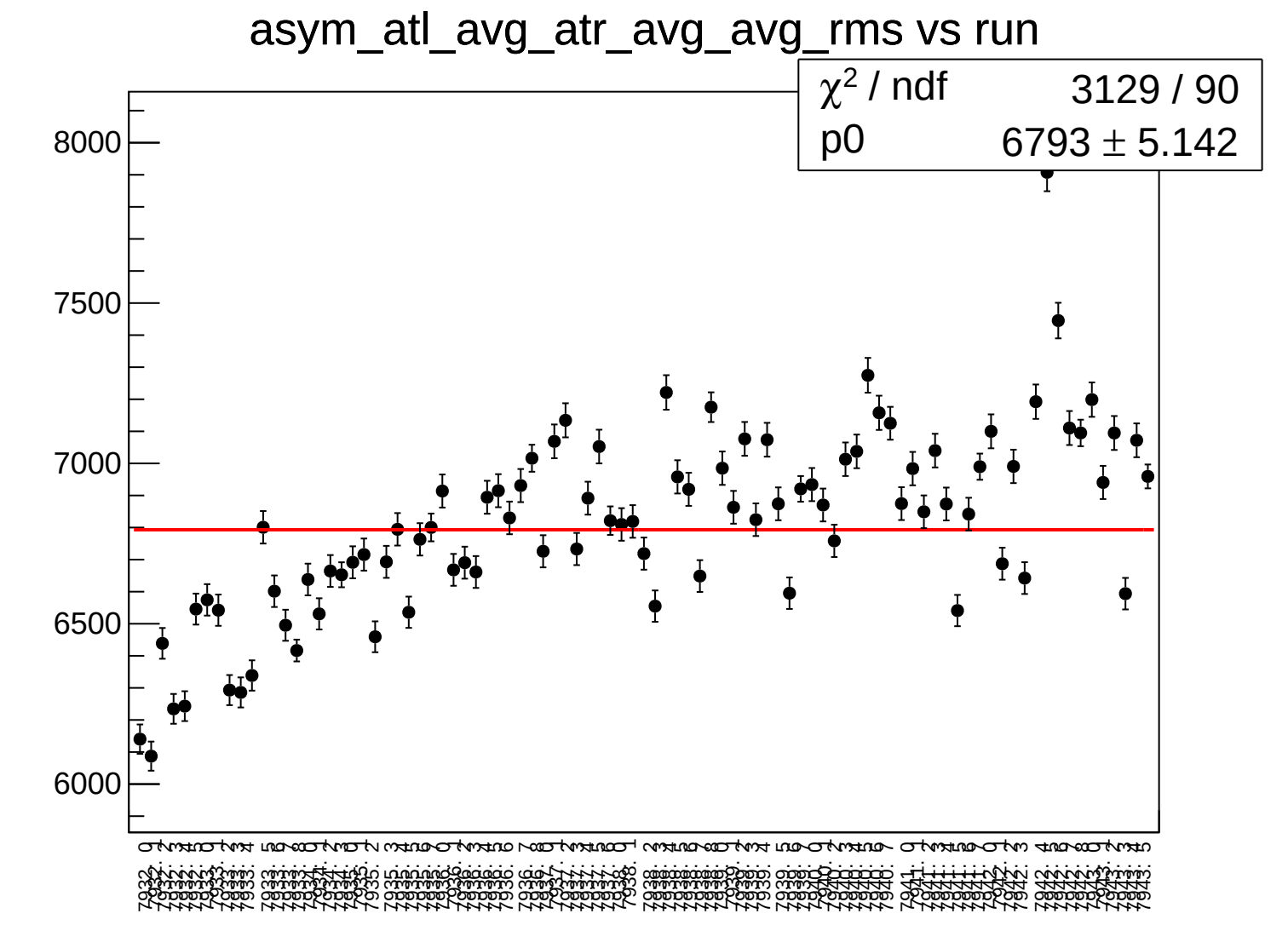

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 −2498 ± 7159
pull
Entries 91
Mean −346.3
Std Dev 0

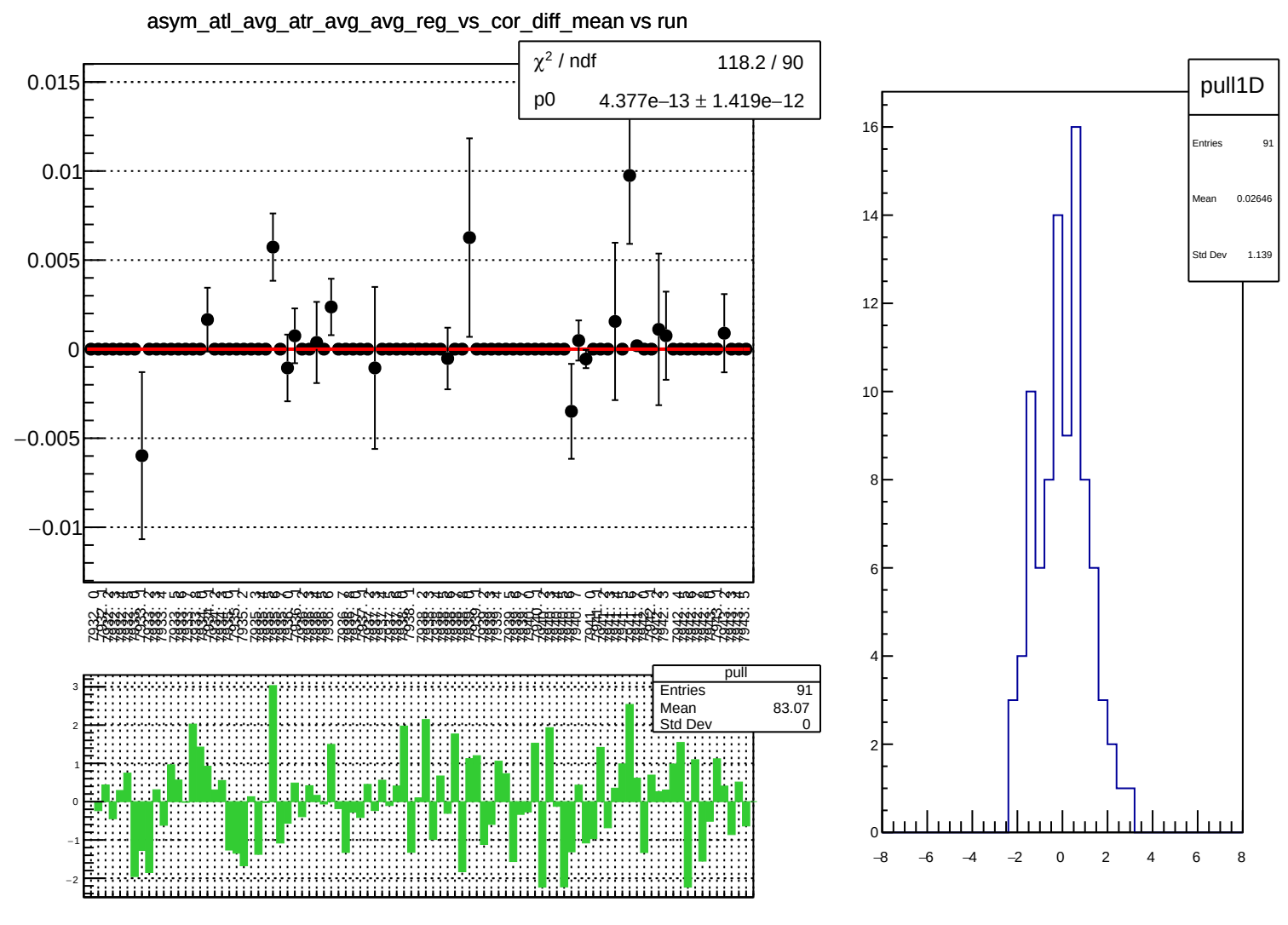

pull1D
Entries 91
Mean −0.003261
Std Dev 1.15

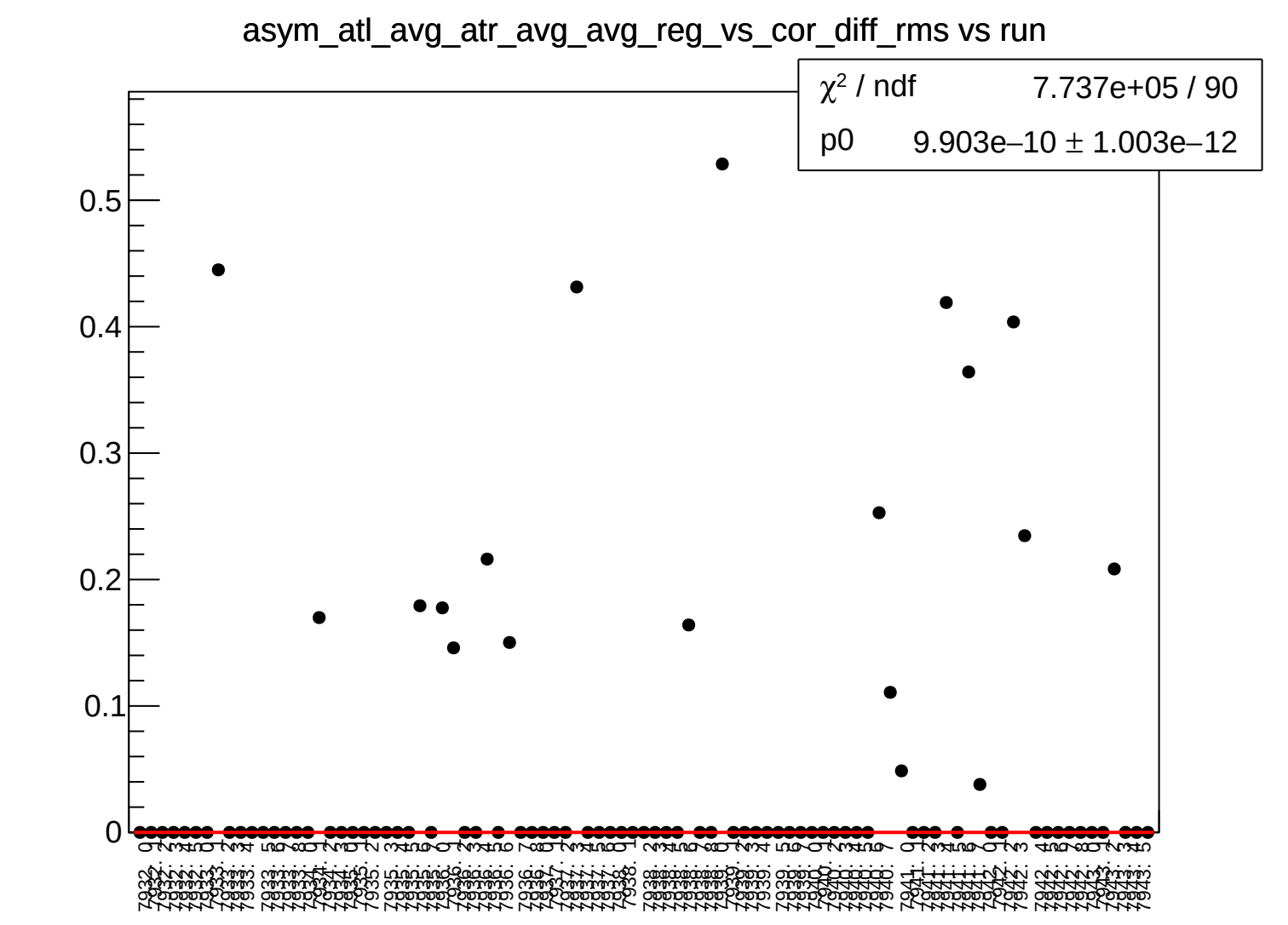

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3119 / 90
p0 6688 ± 5.063
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

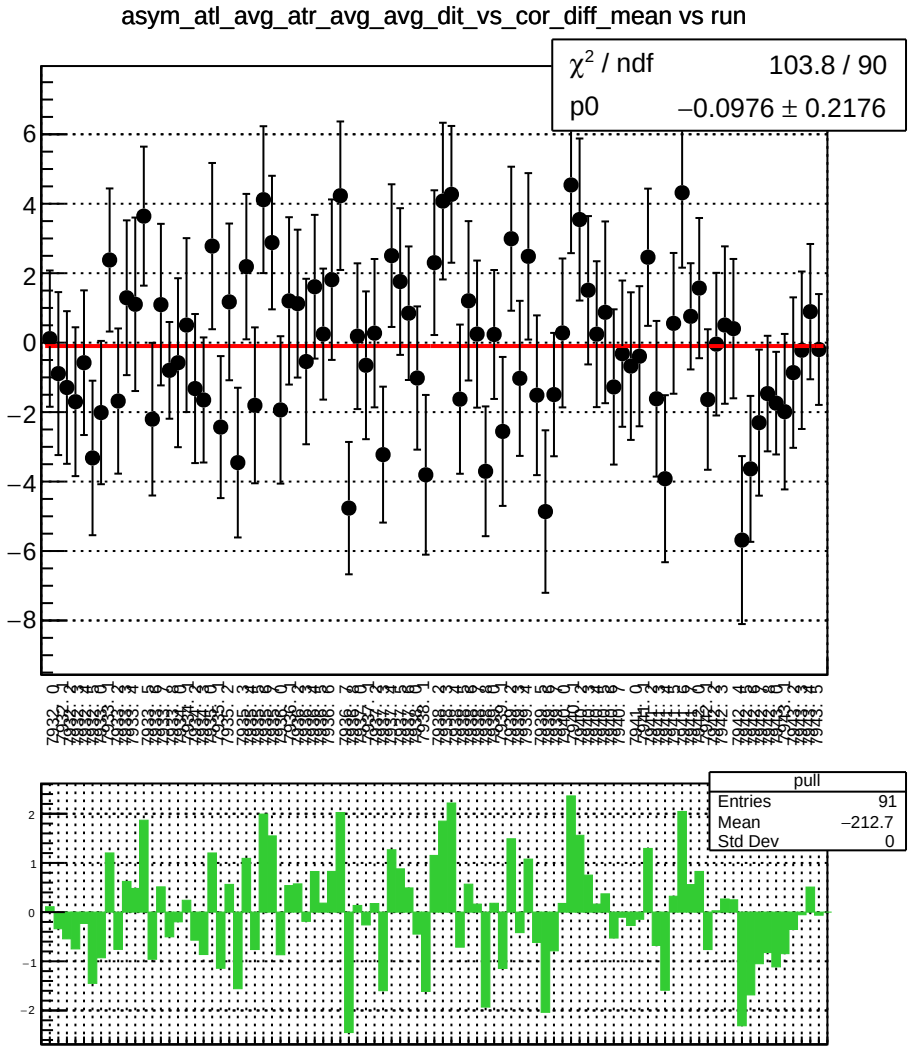

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 121.1 / 90
p0 1303 ± 7272
×10³
pull
Entries 91
Mean −6.393
Std Dev 0

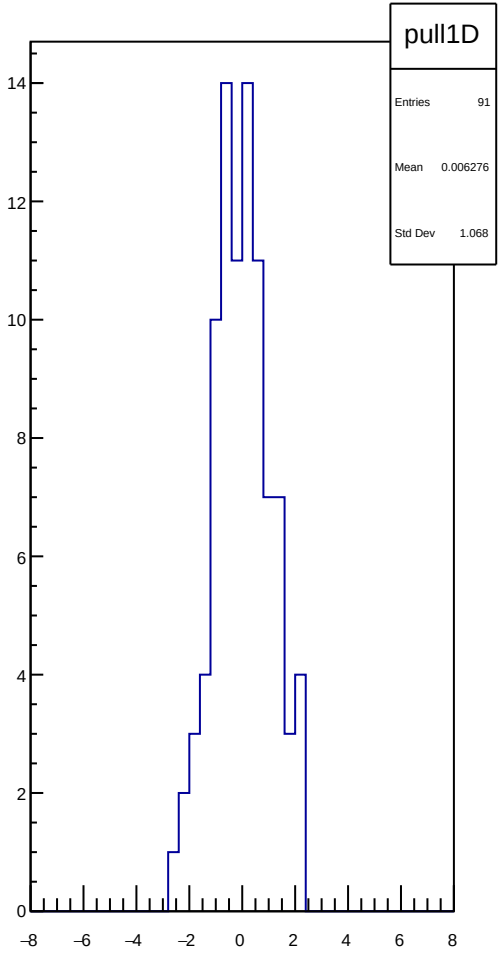

pull1D
Entries 91
Mean 0.00331
Std Dev 1.153

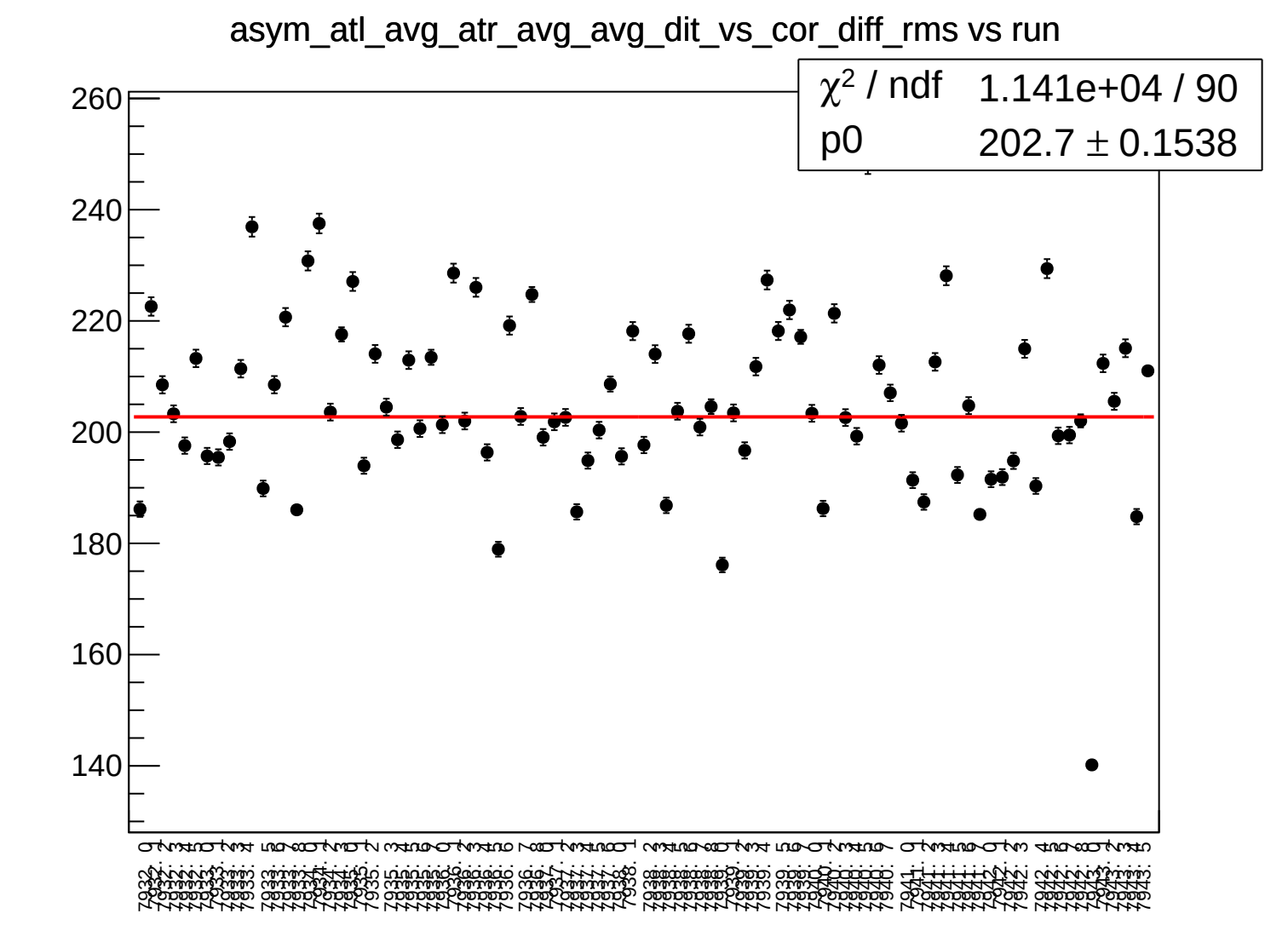

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3129 / 90
p0 6793 ± 5.142
8000
7500
7000
6500
6000

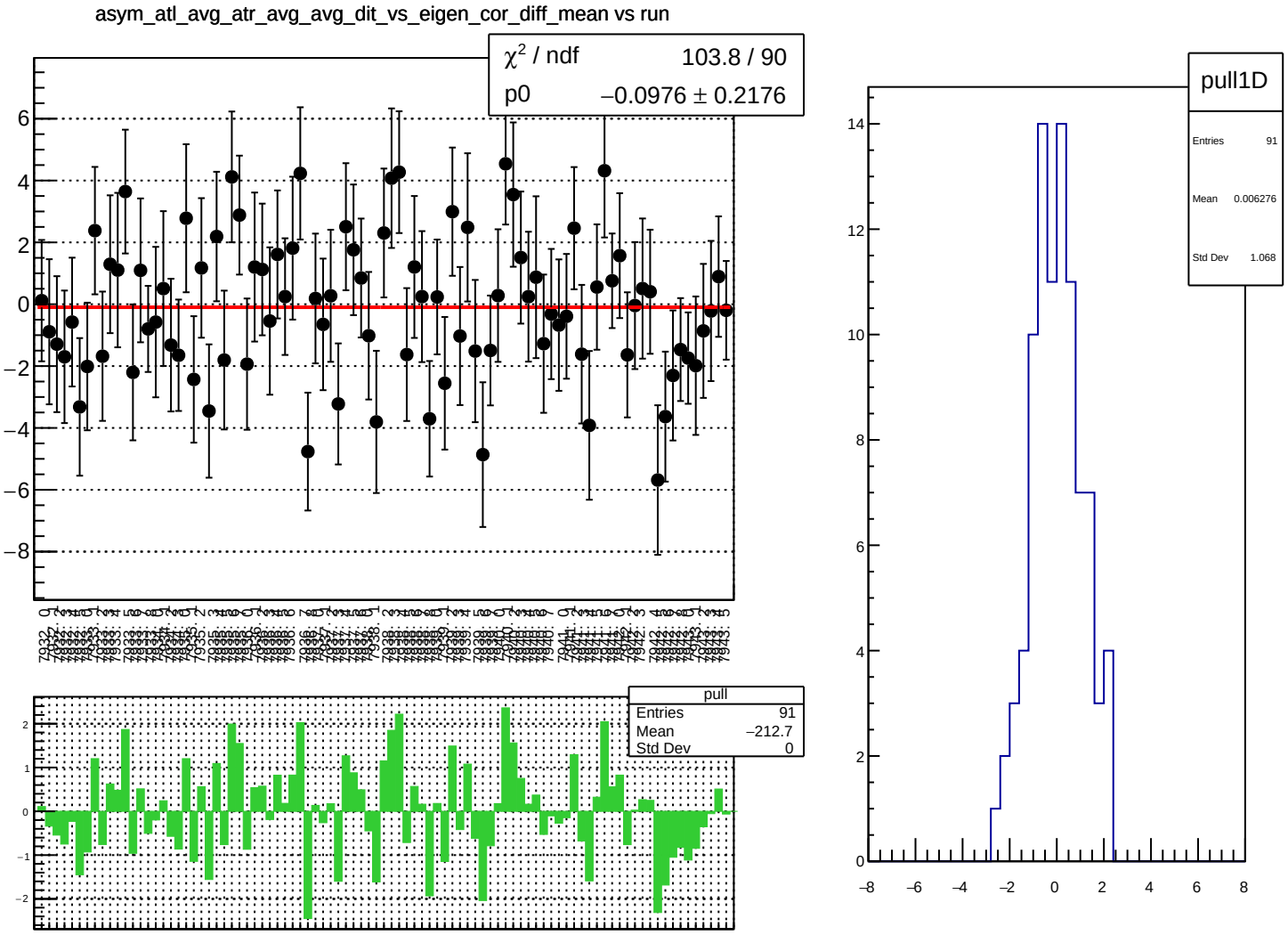

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 90
p0 4.377e−13 ± 1.419e−12
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 83.07
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.02646
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

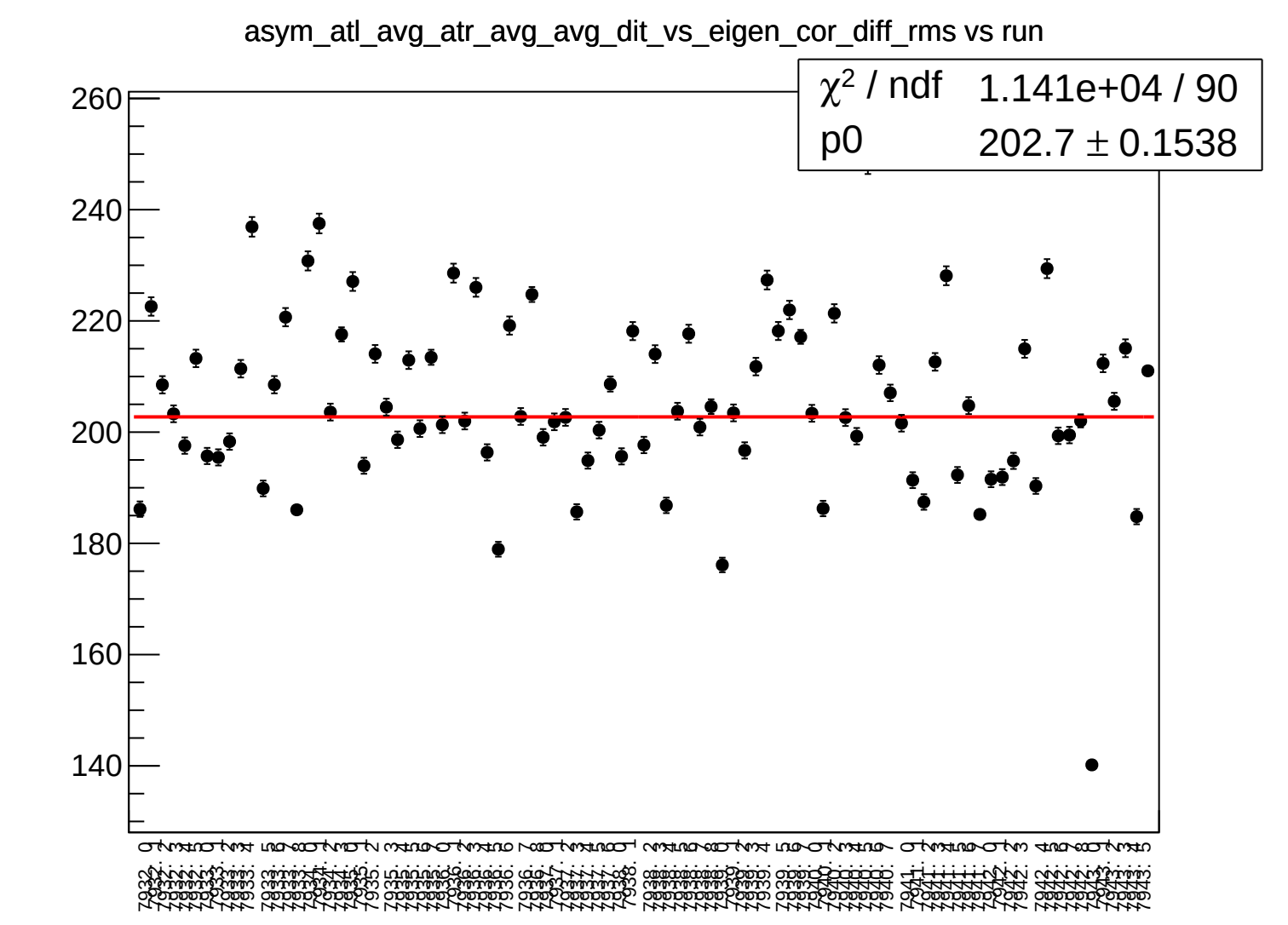

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.737e+05 / 90
p0 9.903e−10 ± 1.003e−12
0.5
0.4
0.3
0.2
0.1
0

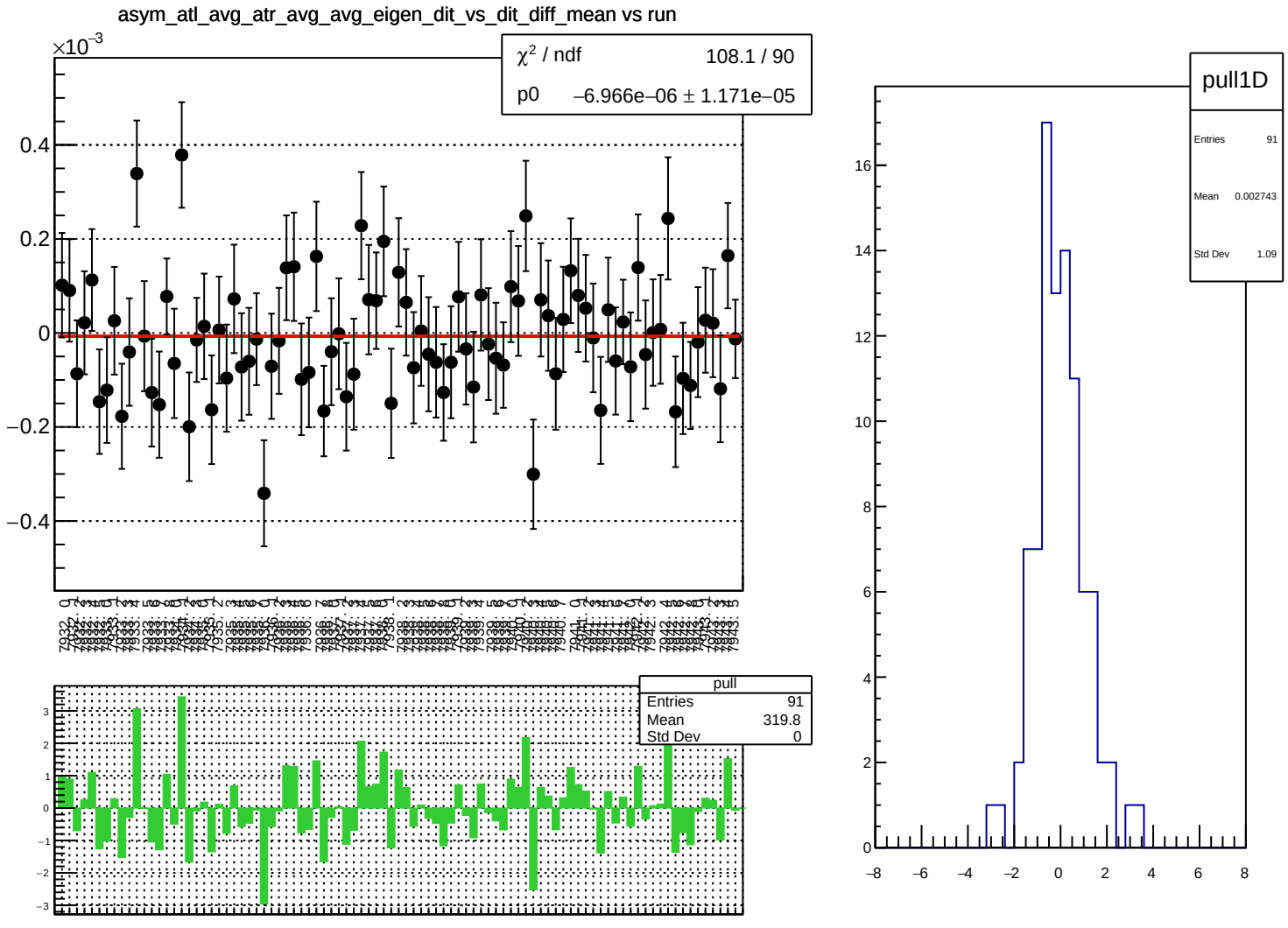

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 90
p0 −0.0976 ± 0.2176
pull
Entries 91
Mean −212.7
Std Dev 0

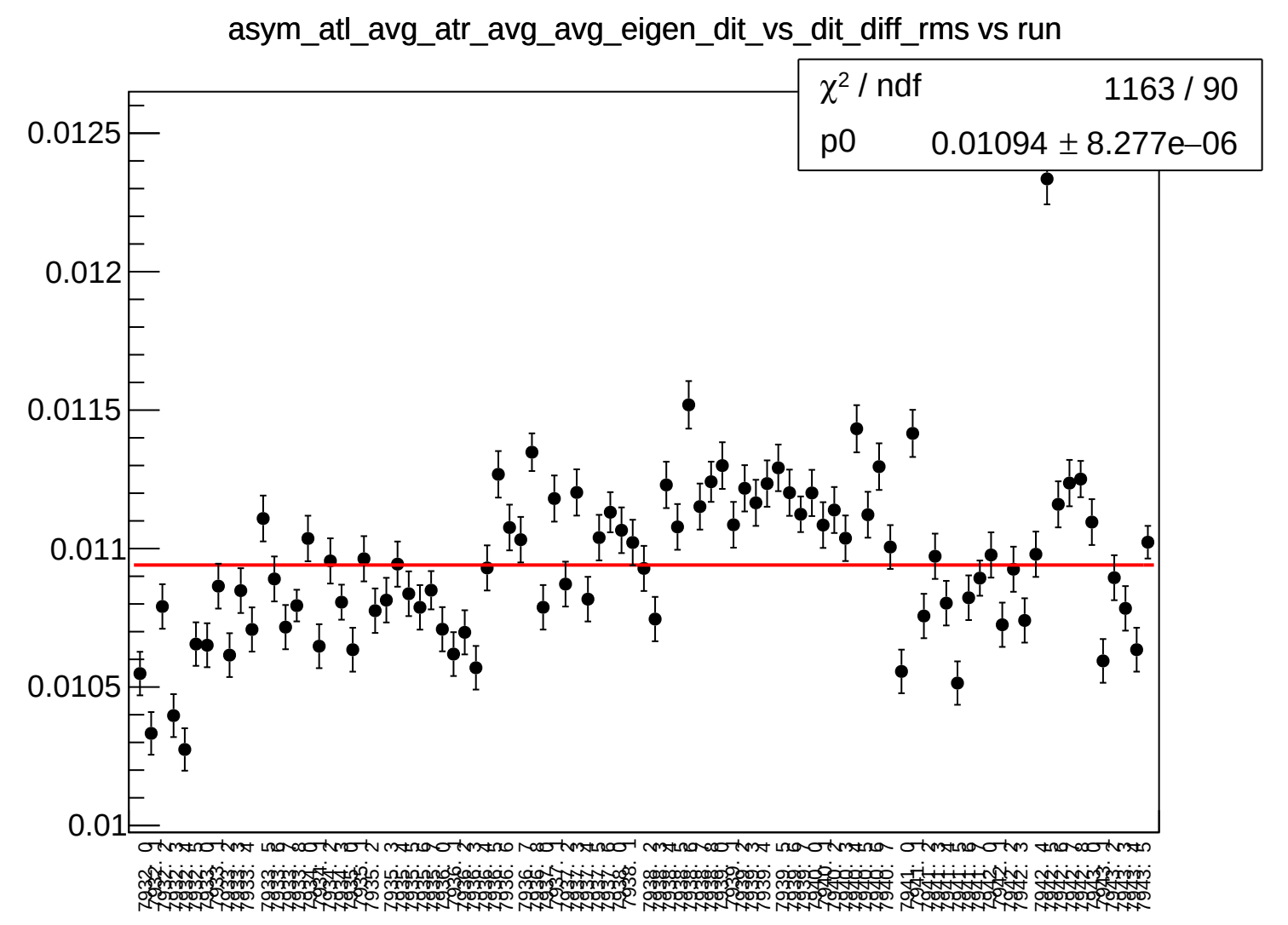

pull1D
Entries 91
Mean 0.006276
Std Dev 1.068

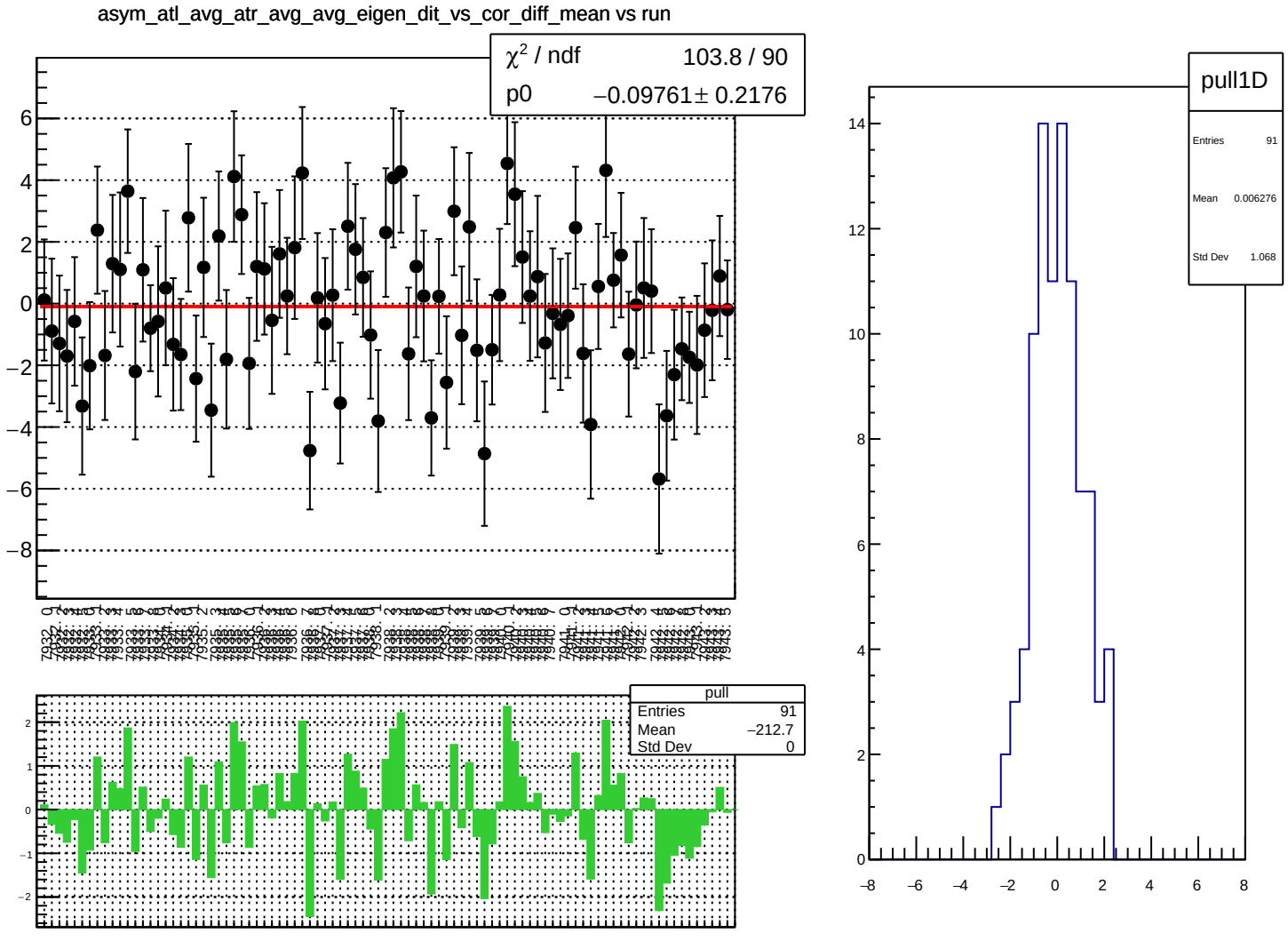

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 90
p0 202.7 ± 0.1538
260
240
220
200
180
160
140

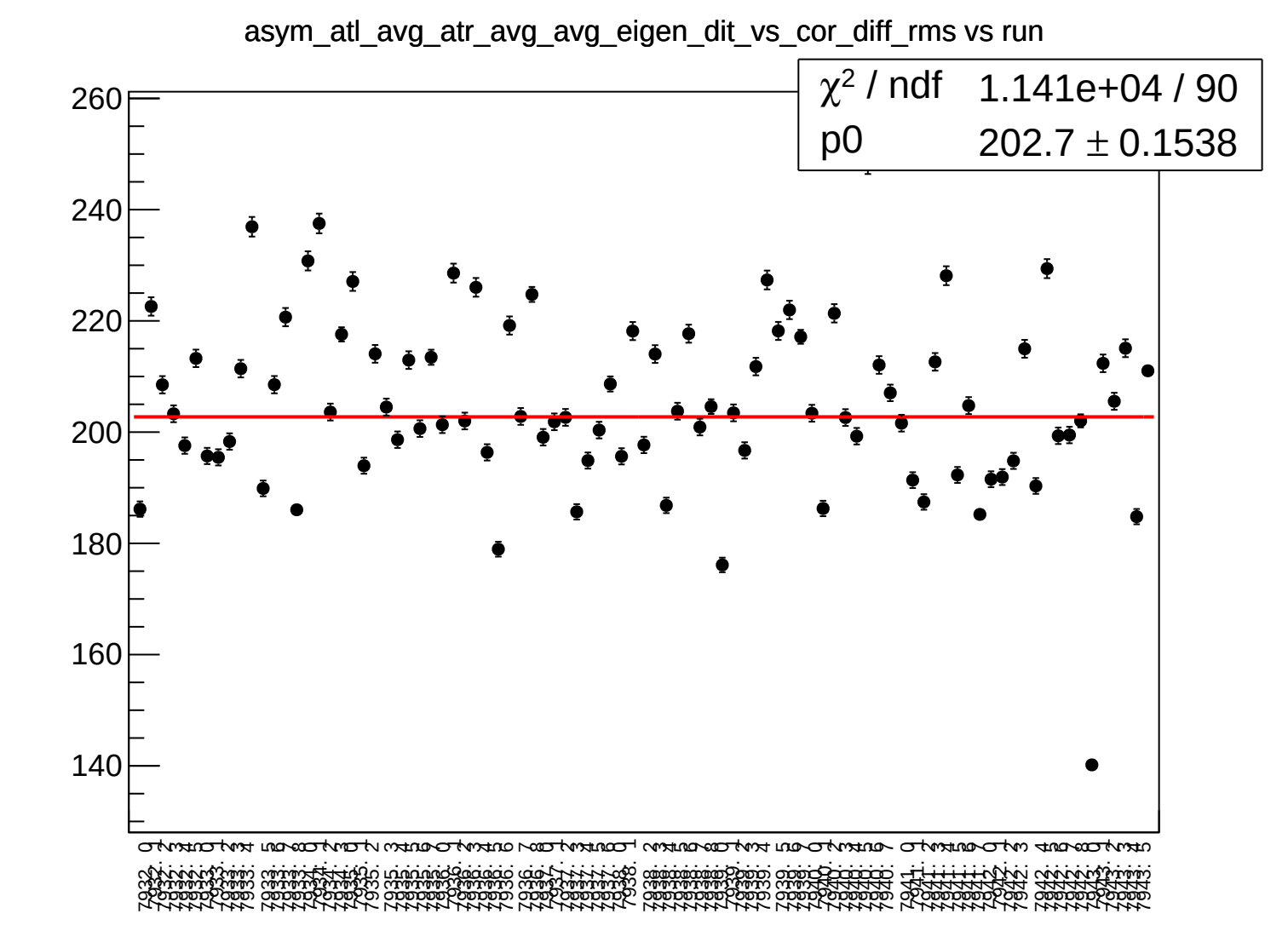

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 90
p0 −0.0976 ± 0.2176
pull
Entries 91
Mean −212.7
Std Dev 0
pull1D
Entries 91
Mean 0.006276
Std Dev 1.068

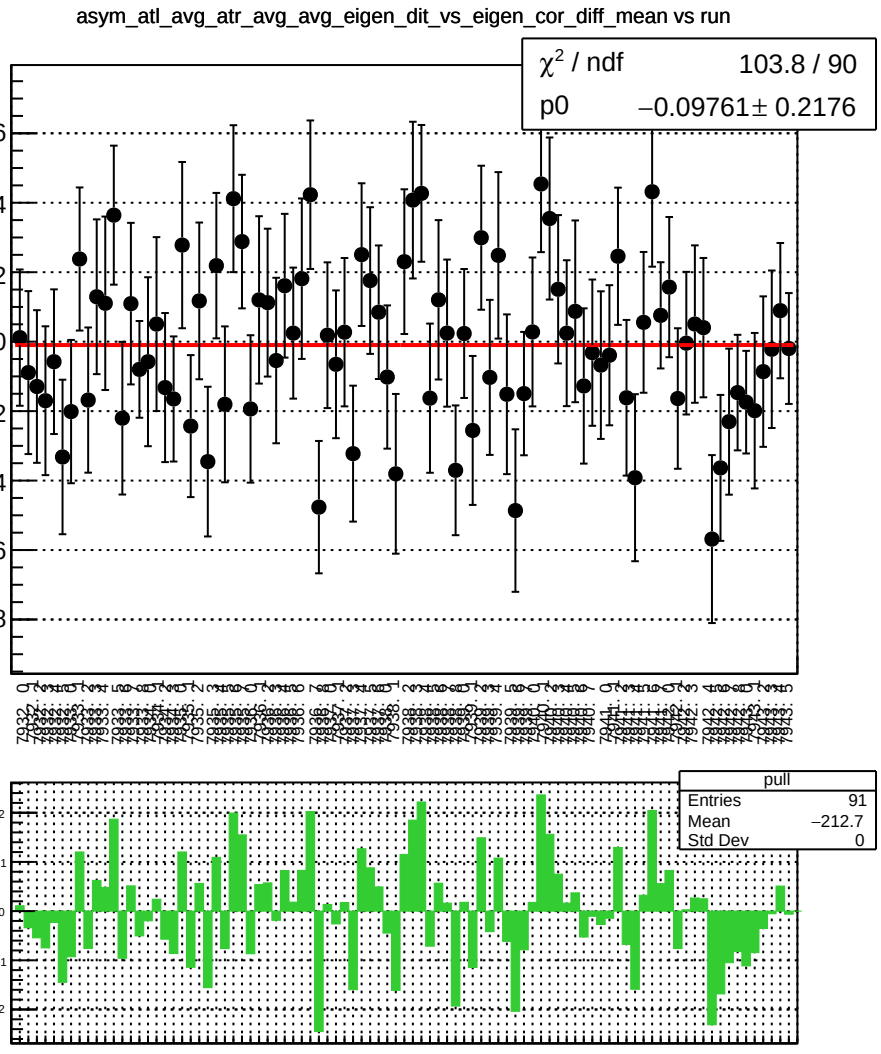

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 90
p0 202.7 ± 0.1538
260
240
220
200
180
160
140

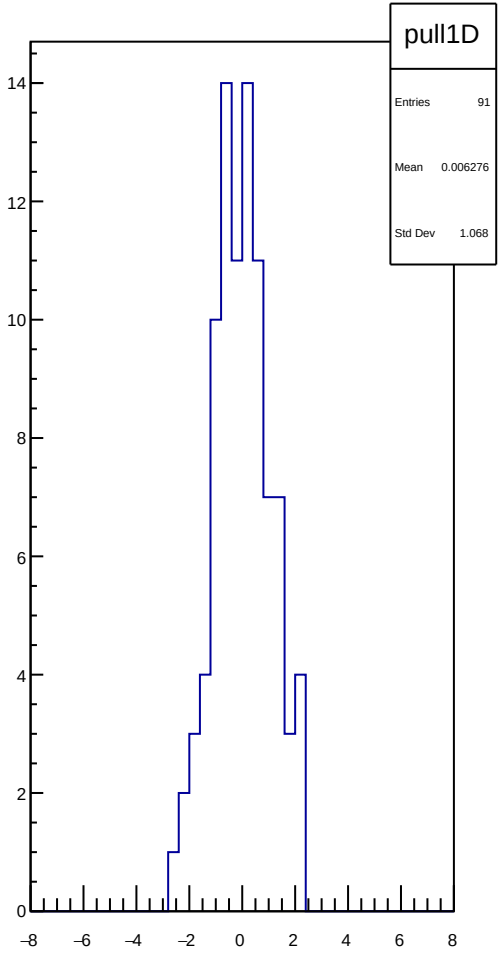

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 108.1 / 90
p0 −6.966e−06 ± 1.171e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 319.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.002743
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

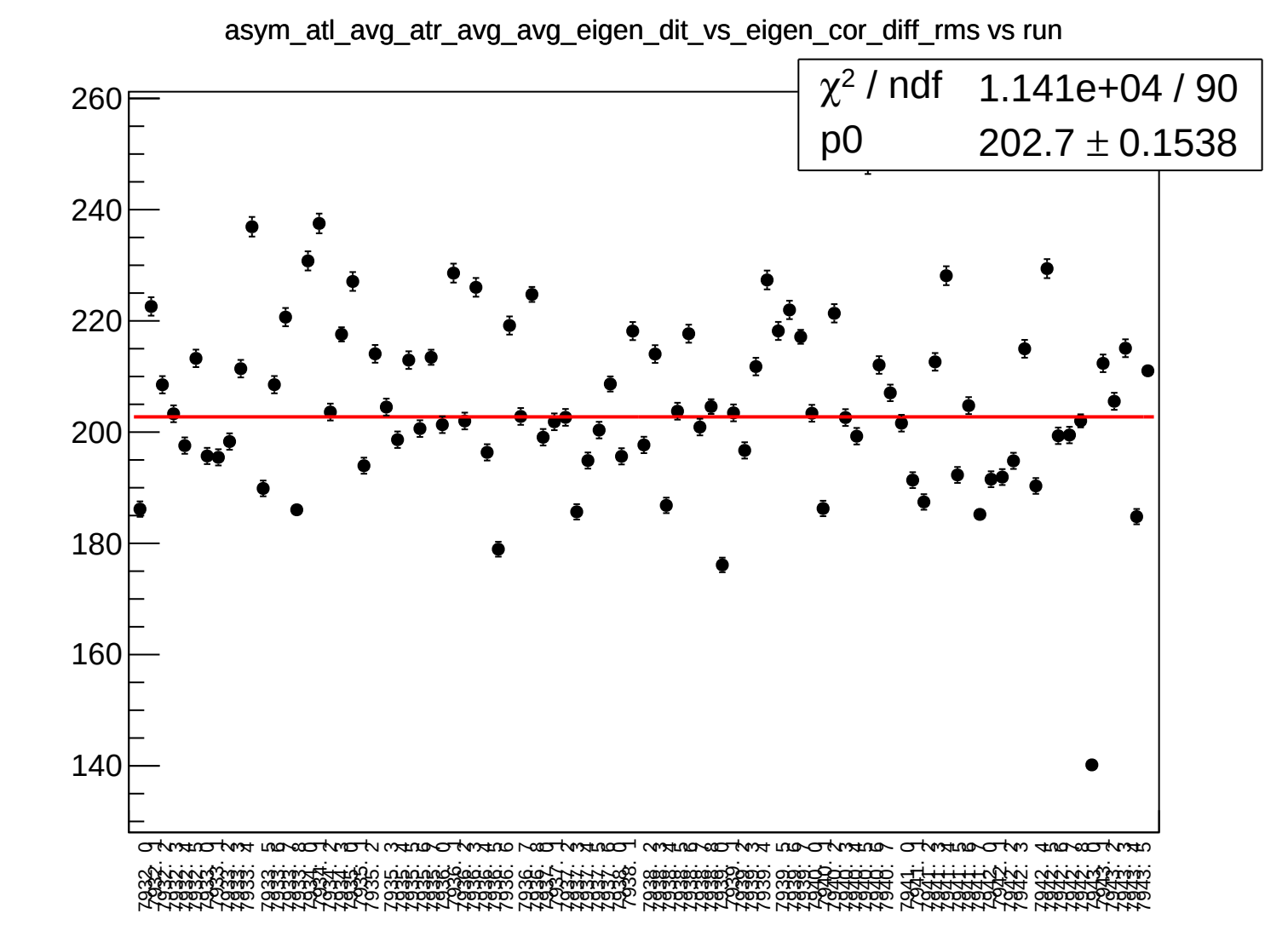

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1163 / 90
p0 0.01094 ± 8.277e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01

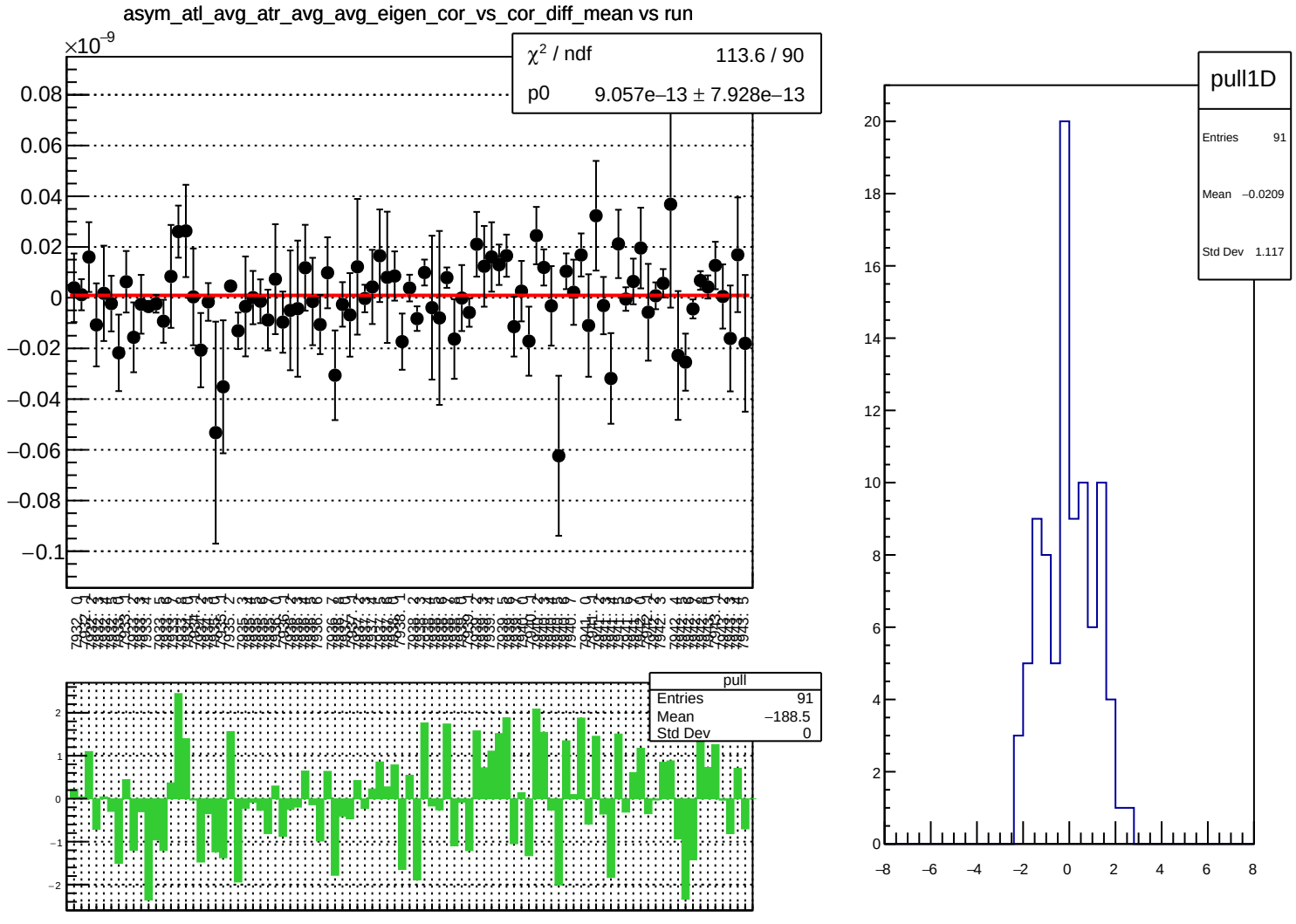

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 90
p0 −0.09761 ± 0.2176
pull
Entries 91
Mean −212.7
Std Dev 0
pull1D
Entries 91
Mean 0.006276
Std Dev 1.068

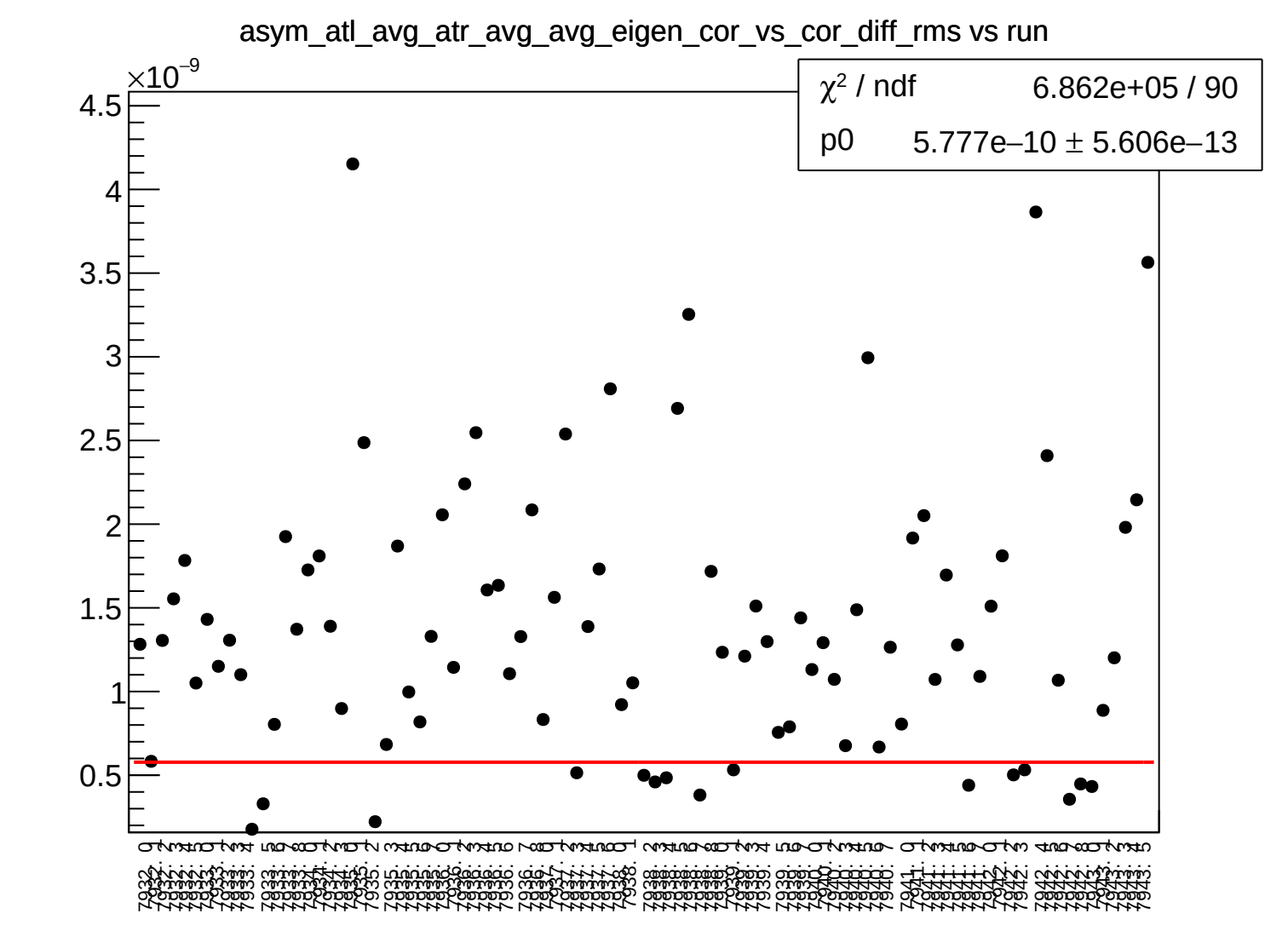

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 90
p0 202.7 ± 0.1538
260
240
220
200
180
160
140

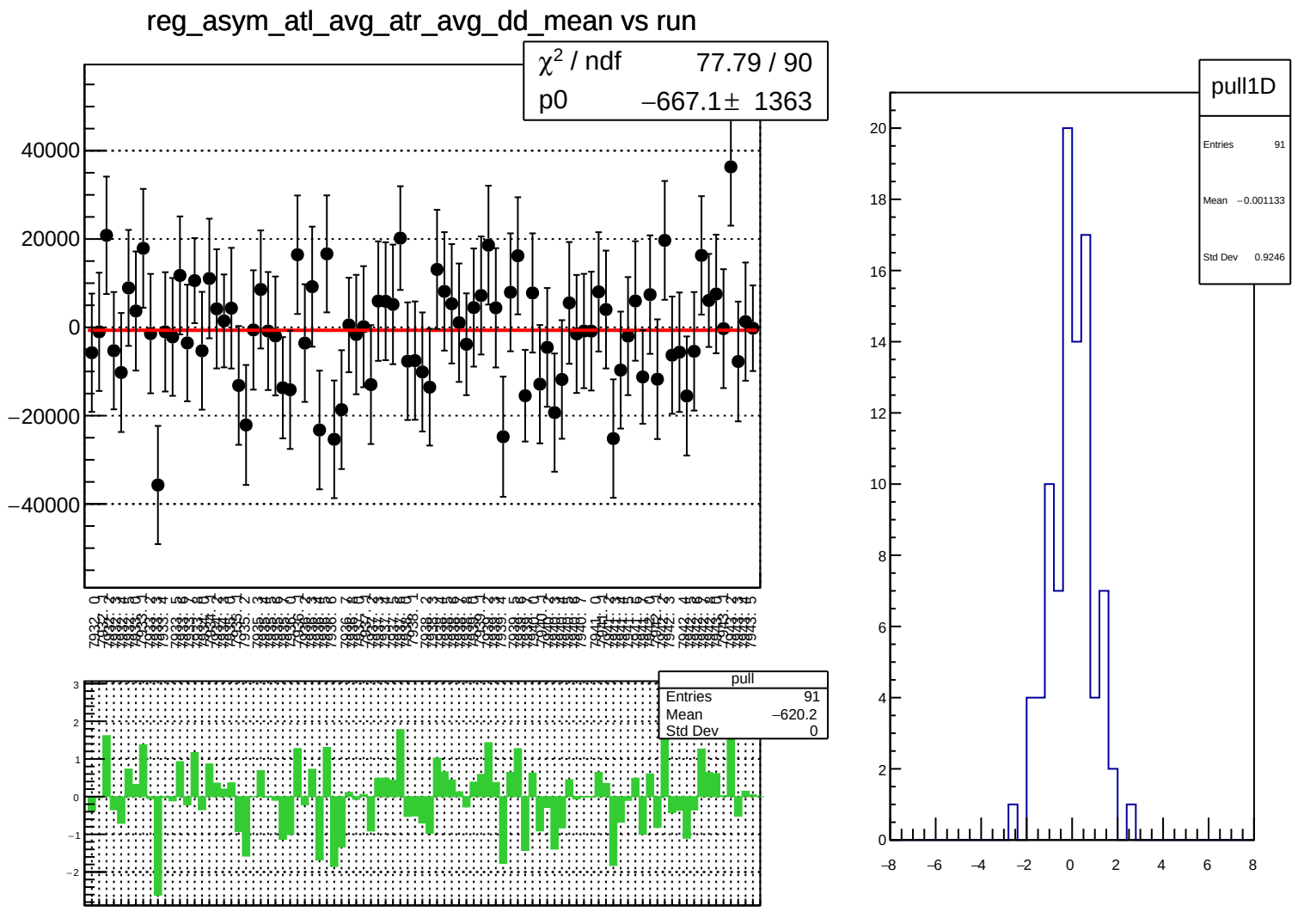

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 90
p0 −0.09761 ± 0.2176
pull
Entries 91
Mean −212.7
Std Dev 0

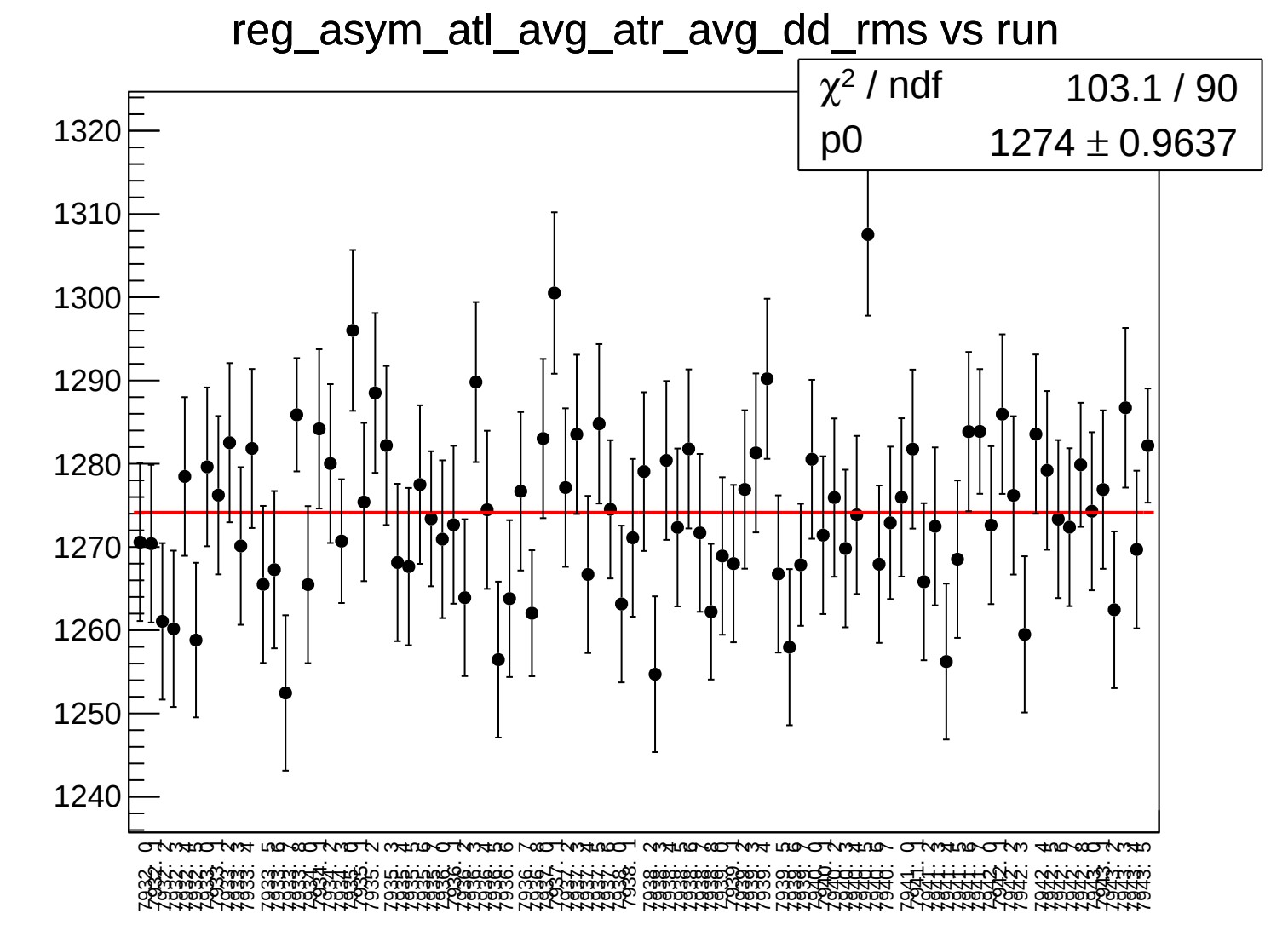

pull1D
Entries 91
Mean 0.006276
Std Dev 1.068

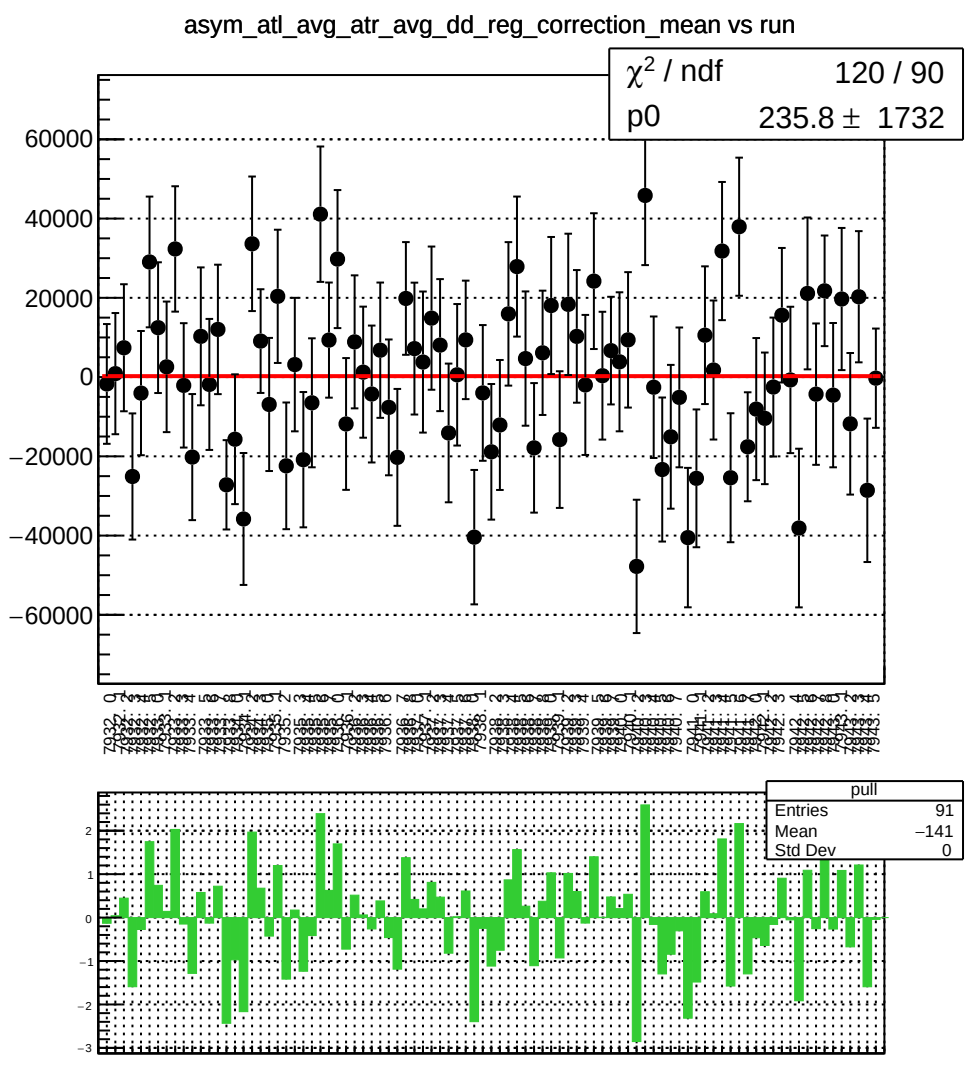

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.141e+04 / 90
p0 202.7 ± 0.1538
260
240
220
200
180
160
140

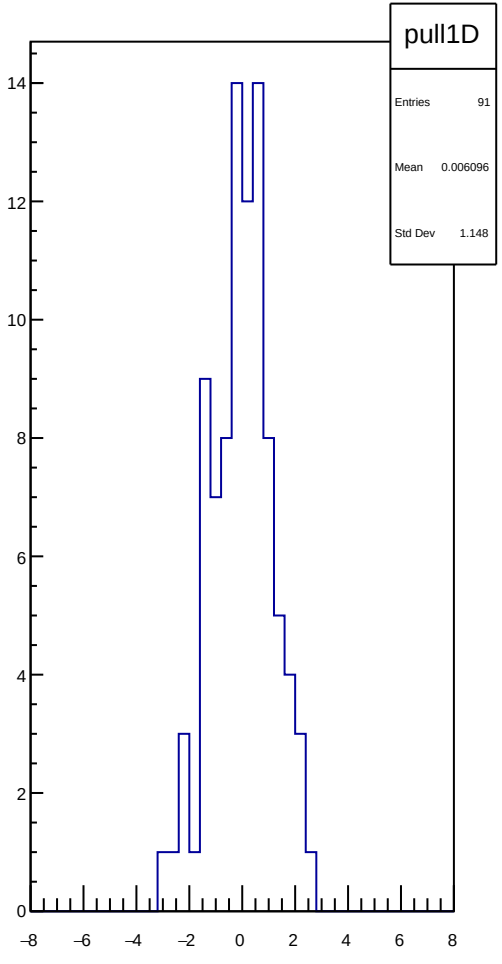

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 113.6 / 90
p0 9.057e−13 ± 7.928e−13
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 91
Mean −188.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0209
Std Dev 1.117
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

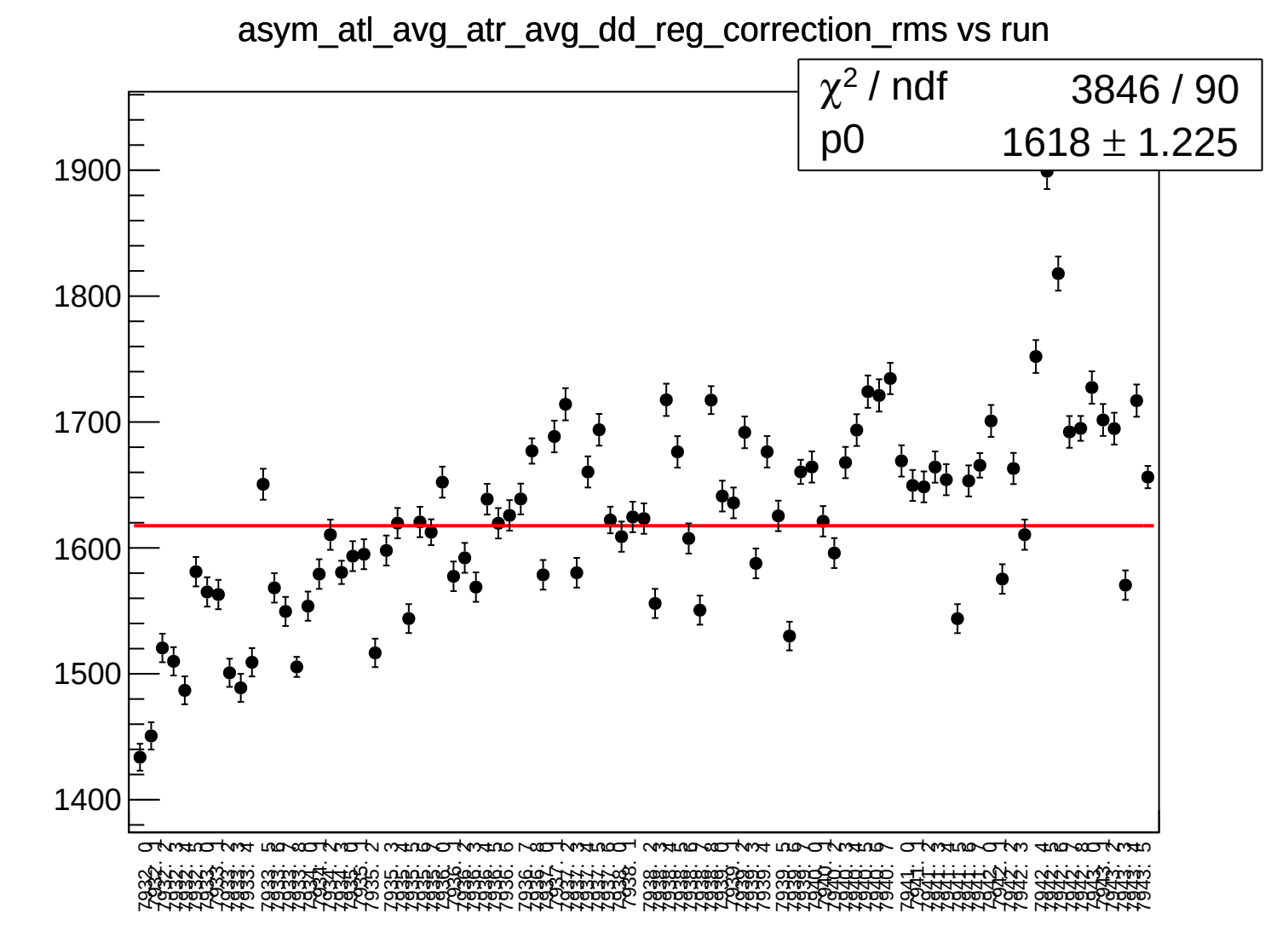

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.862e+05 / 90
p0 5.777e−10 ± 5.606e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

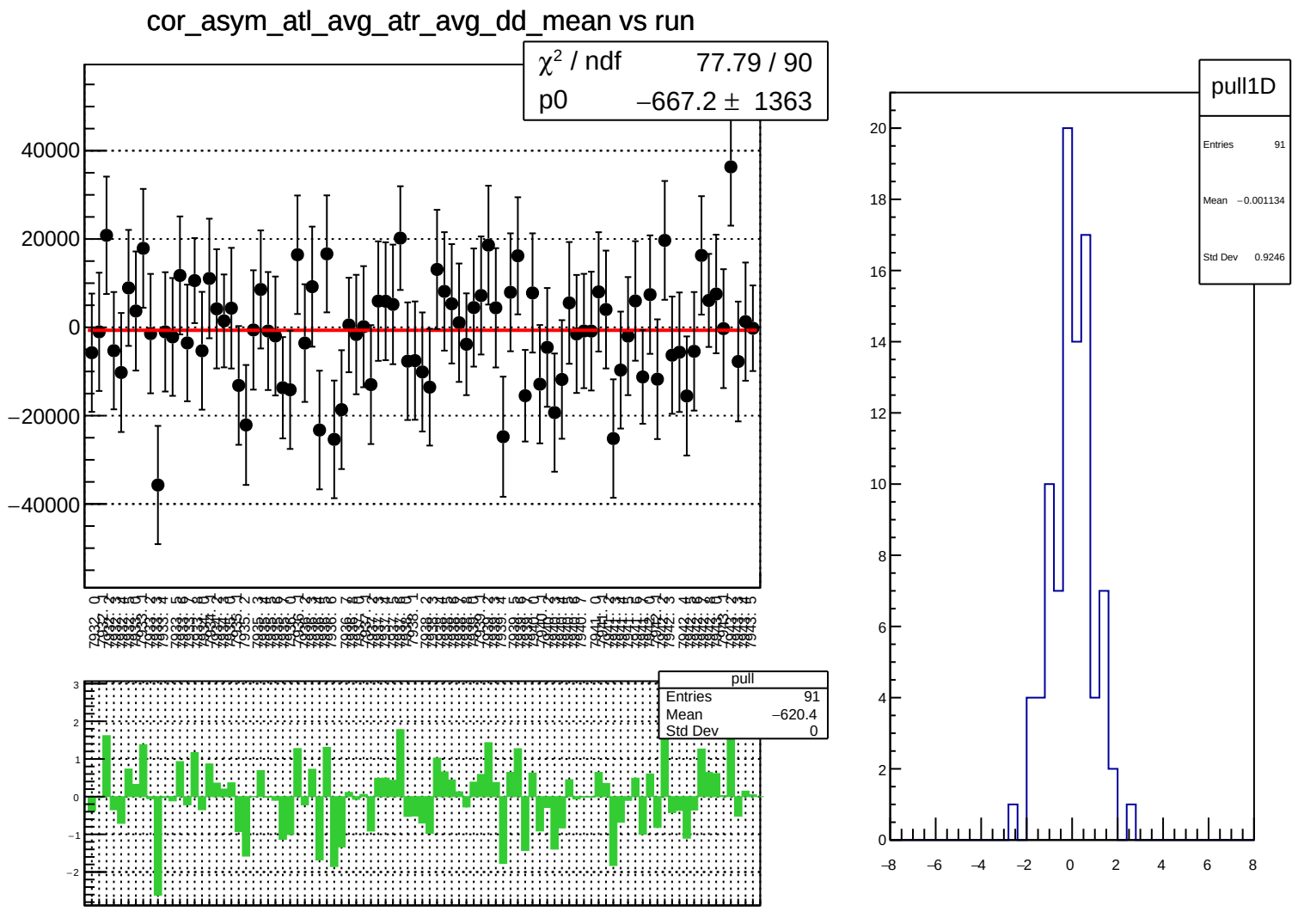

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.79 / 90
p0 −667.1± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −620.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001133
Std Dev 0.9246
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

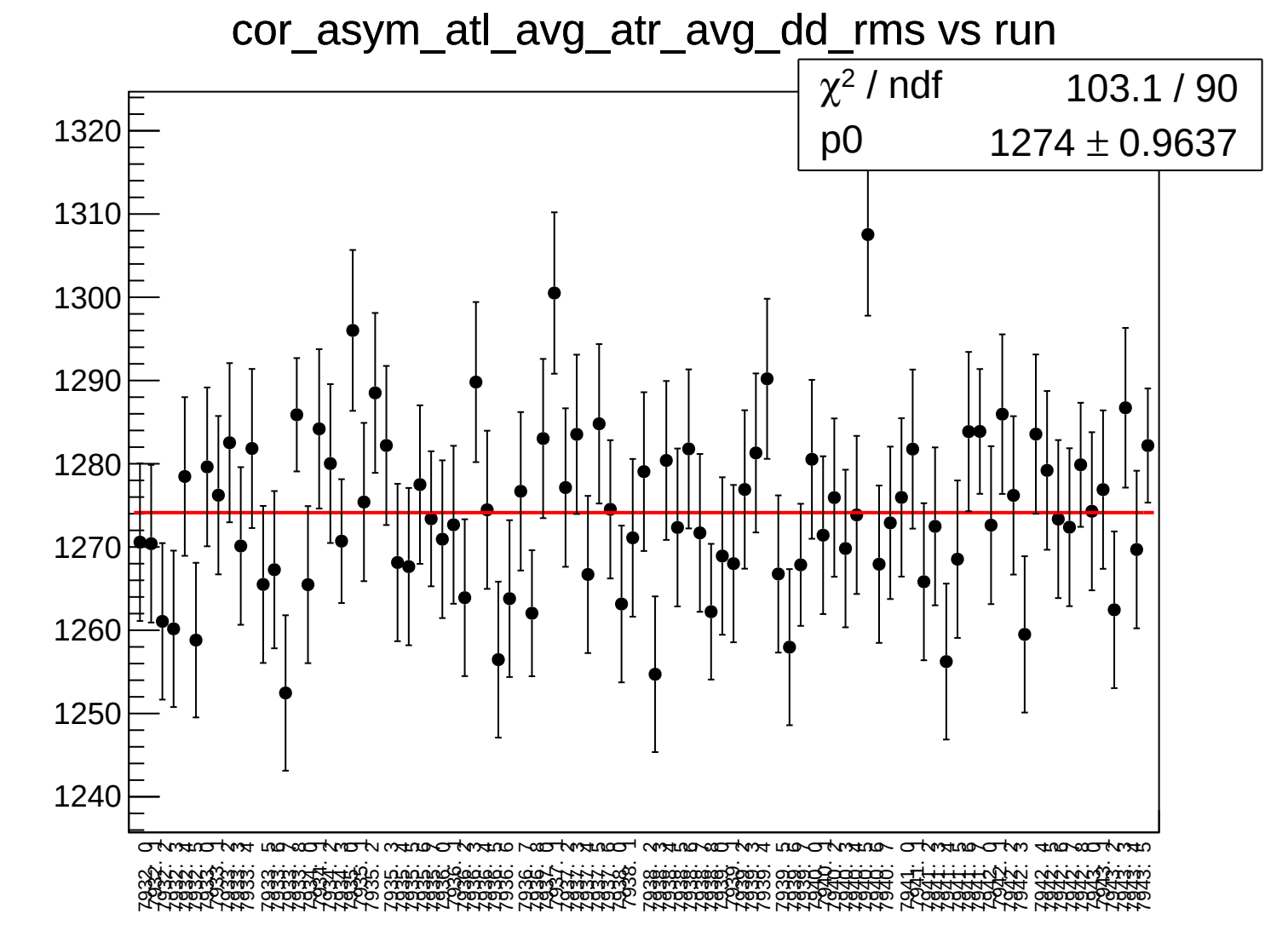

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 103.1 / 90
p0 1274 ± 0.9637
1320
1310
1300
1290
1280
1270
1260
1250
1240

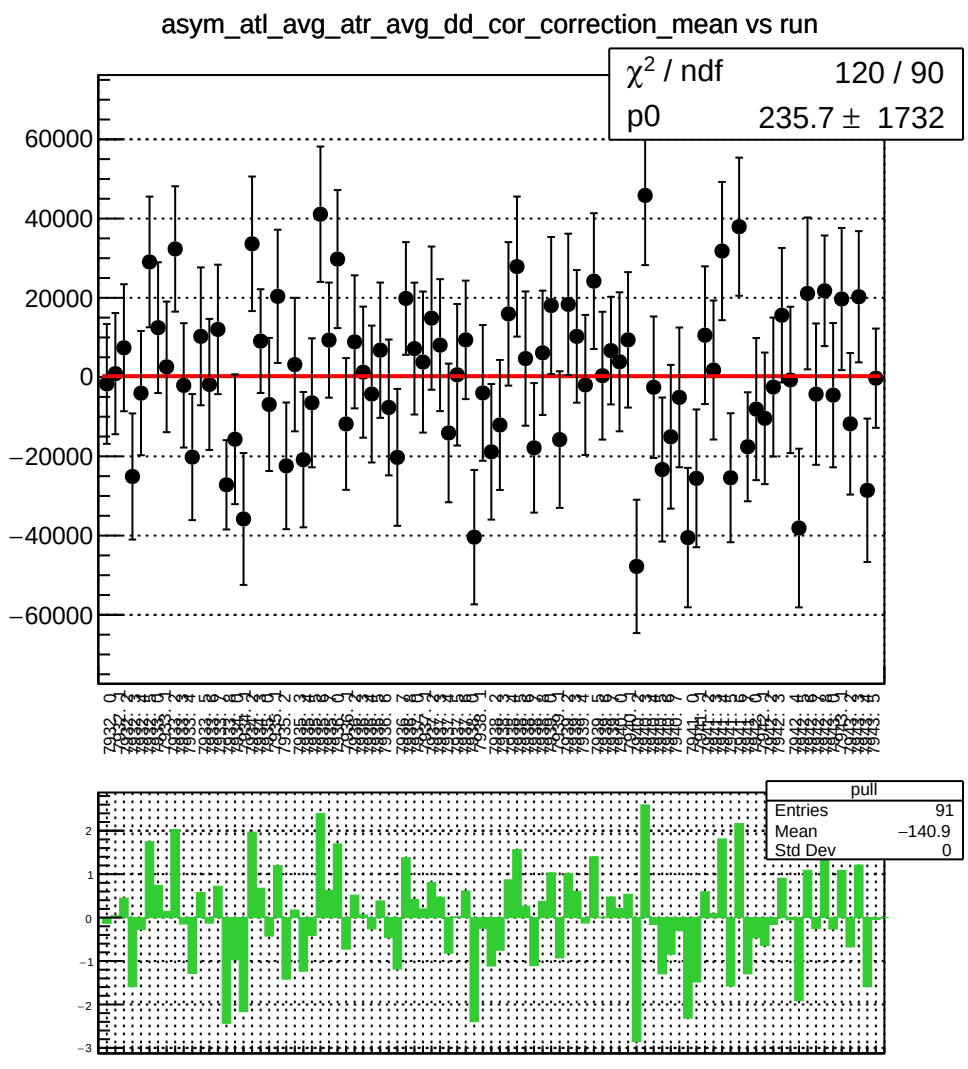

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 120 / 90
p0 235.8 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −141
Std Dev 0
2
1
0
−1
−2
−3

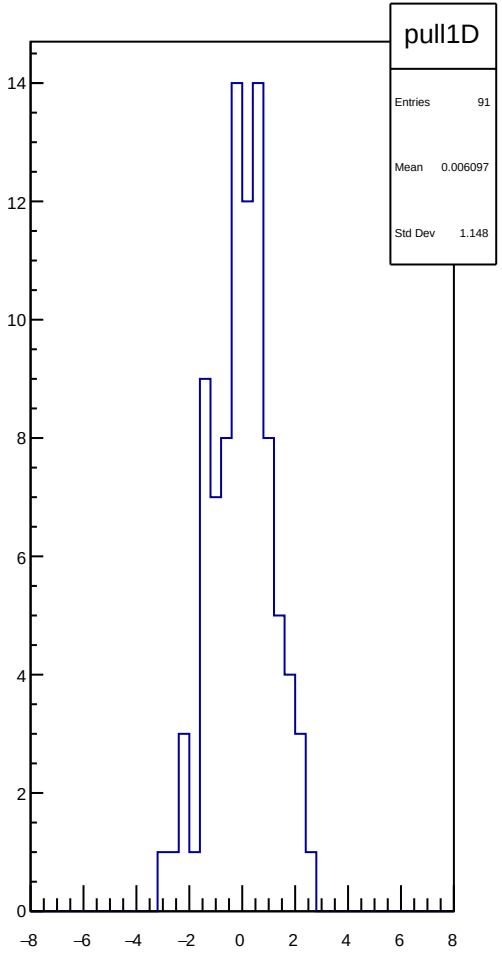

pull1D
Entries 91
Mean 0.006096
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

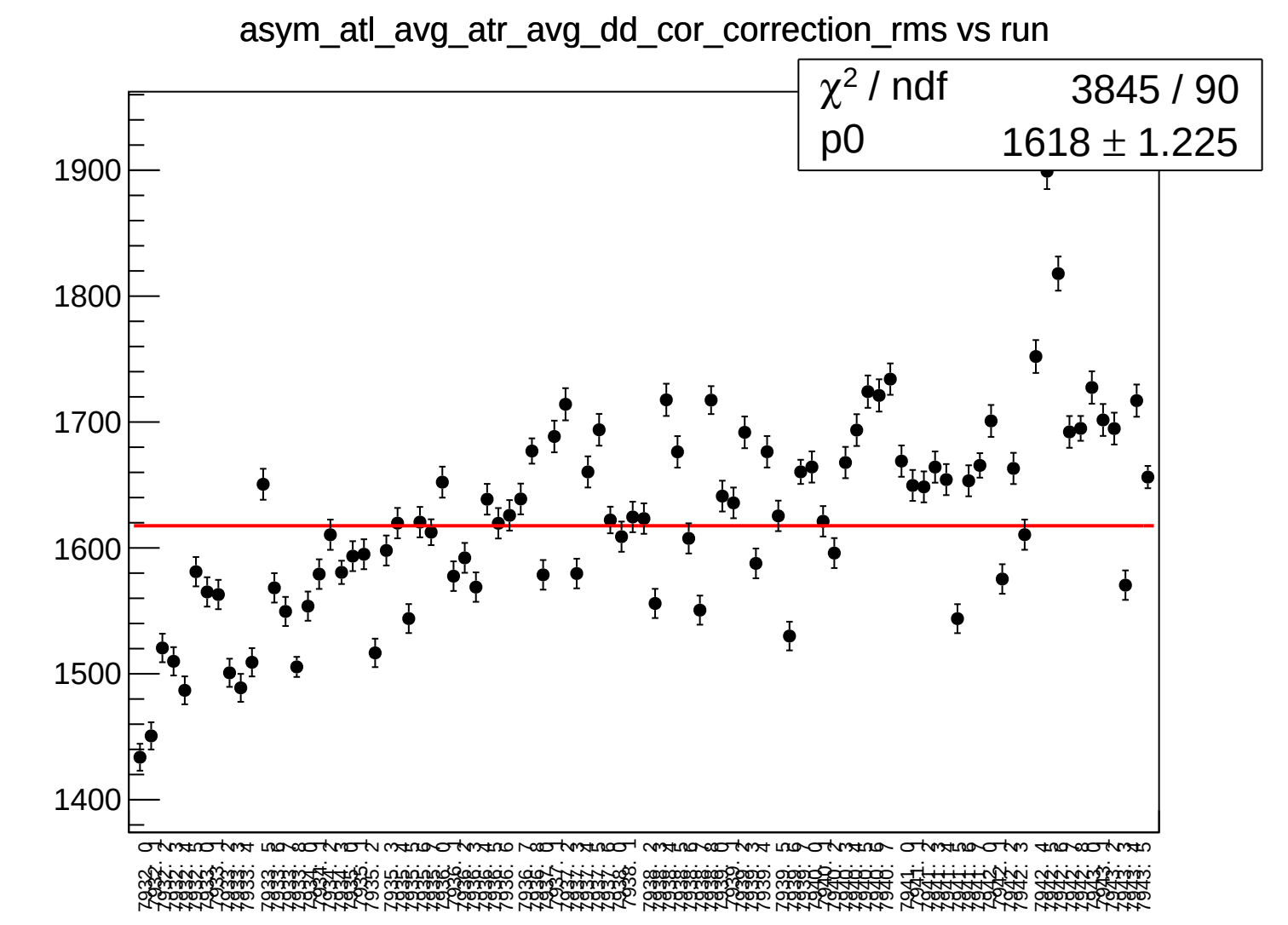

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3846 / 90
p0 1618 ± 1.225
1900
1800
1700
1600
1500
1400

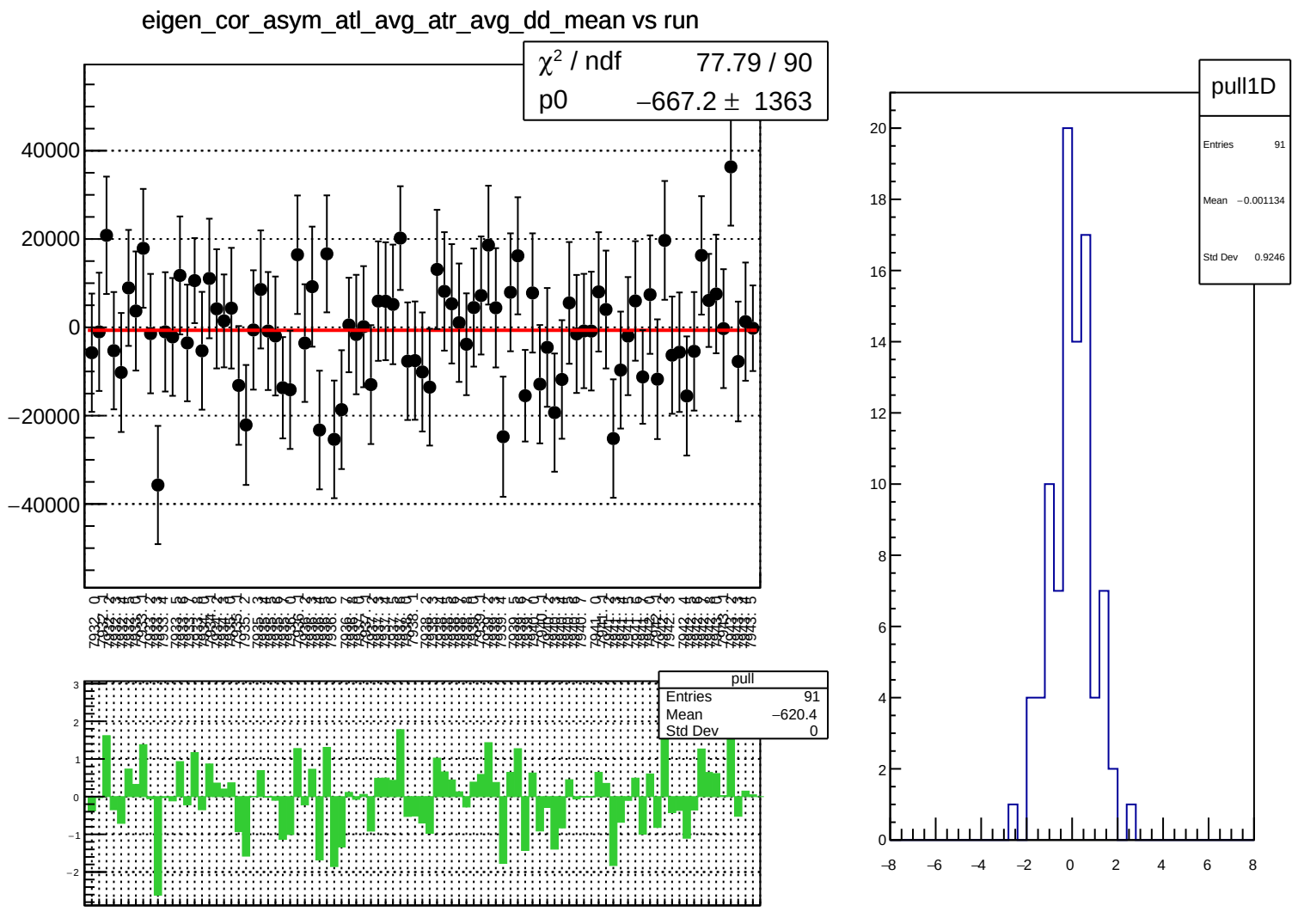

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.79 / 90
p0 −667.2 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −620.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001134
Std Dev 0.9246
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

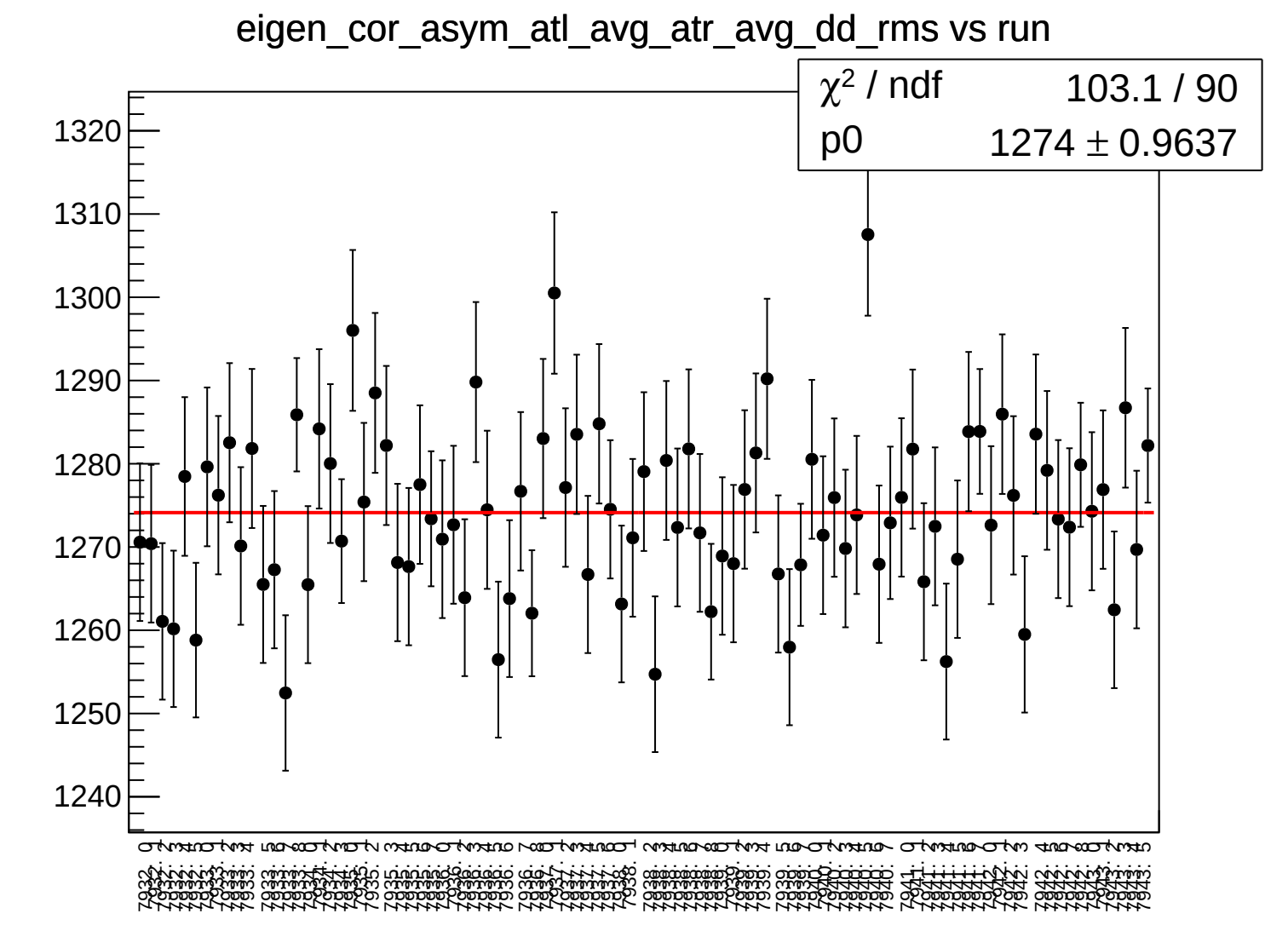

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.1 / 90
p0 1274 ± 0.9637
1320
1310
1300
1290
1280
1270
1260
1250
1240

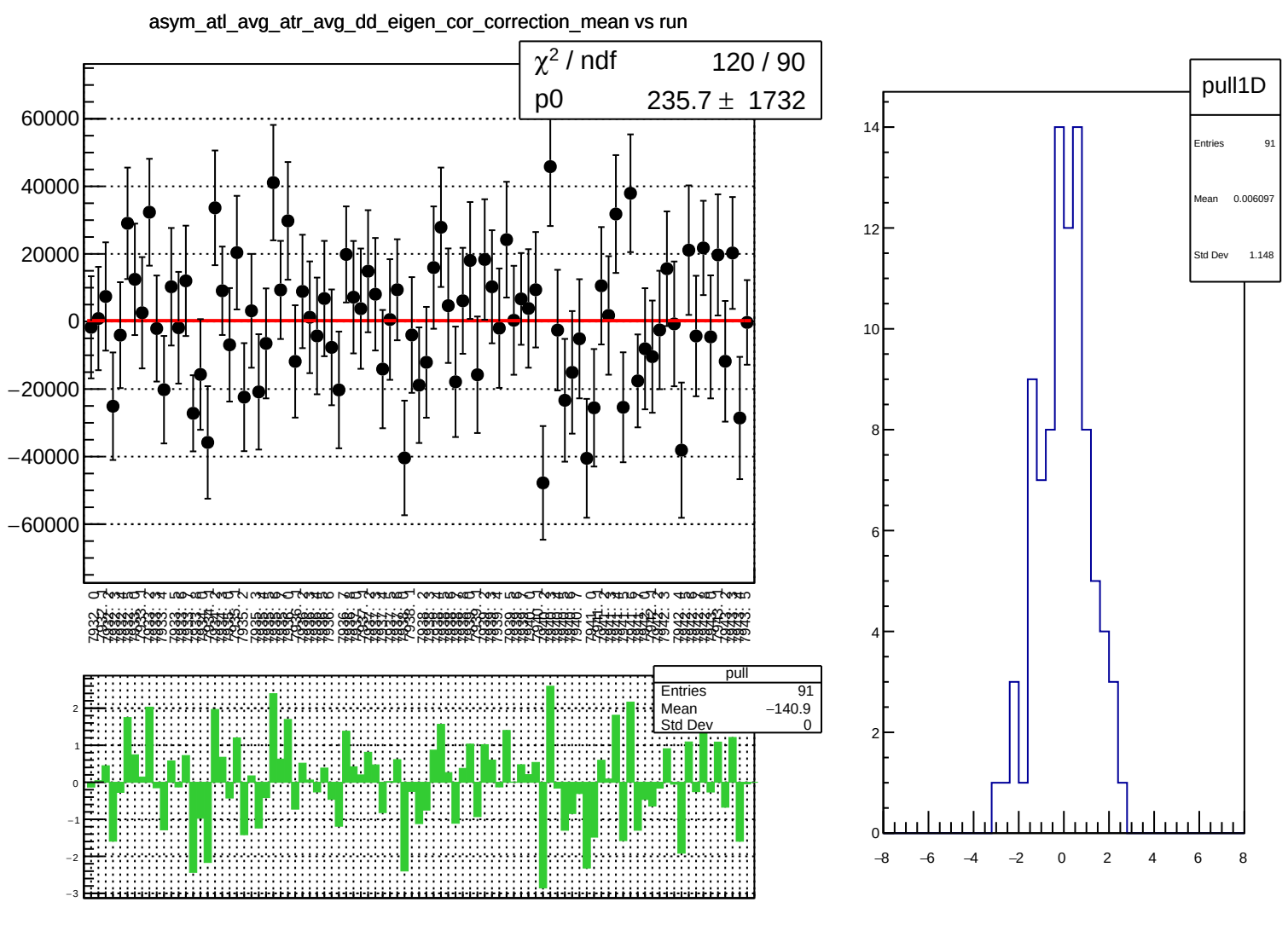

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 120 / 90
p0 235.7 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −140.9
Std Dev 0
2
1
0
−1
−2
−3

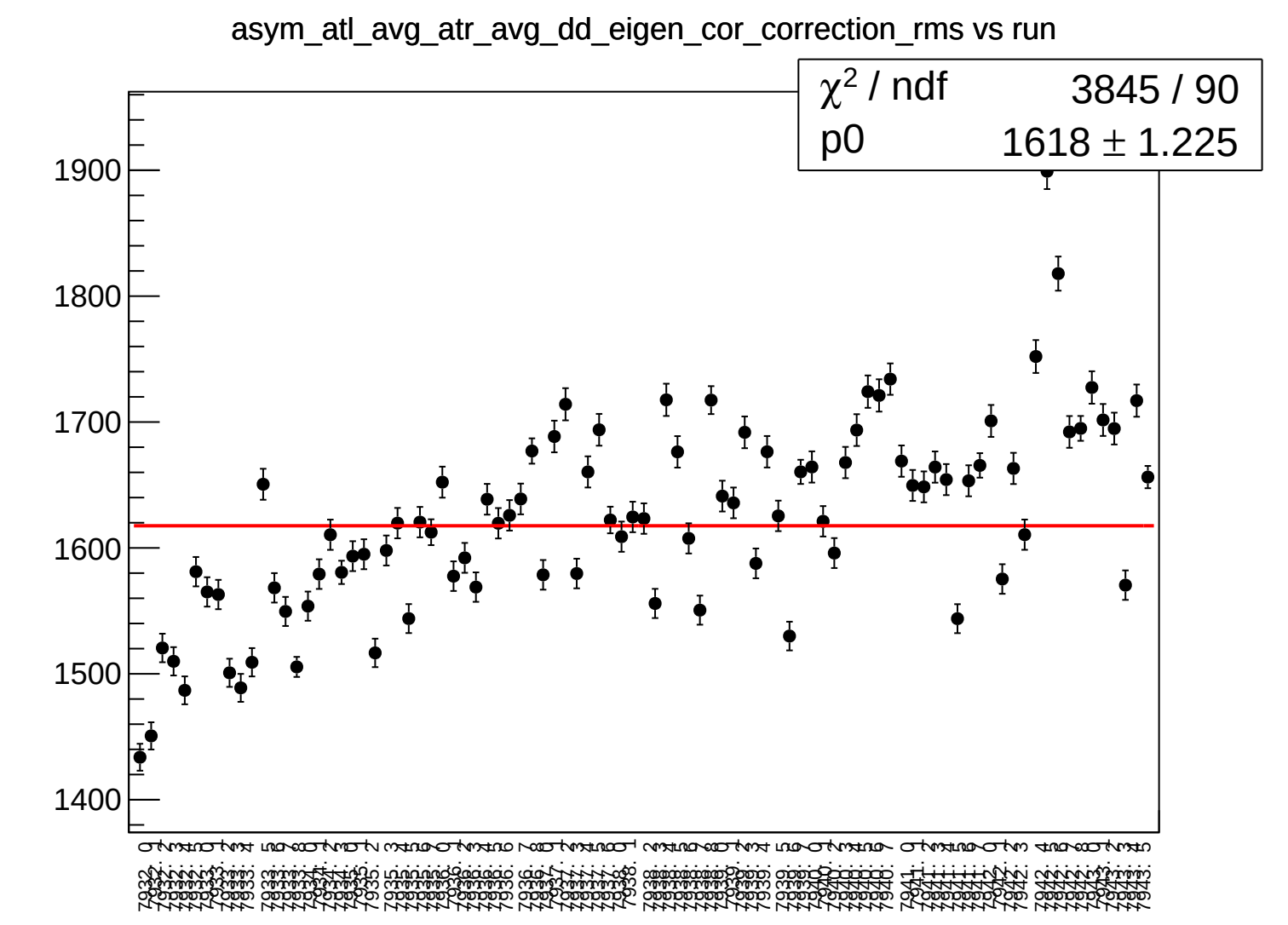

pull1D
Entries 91
Mean 0.006097
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

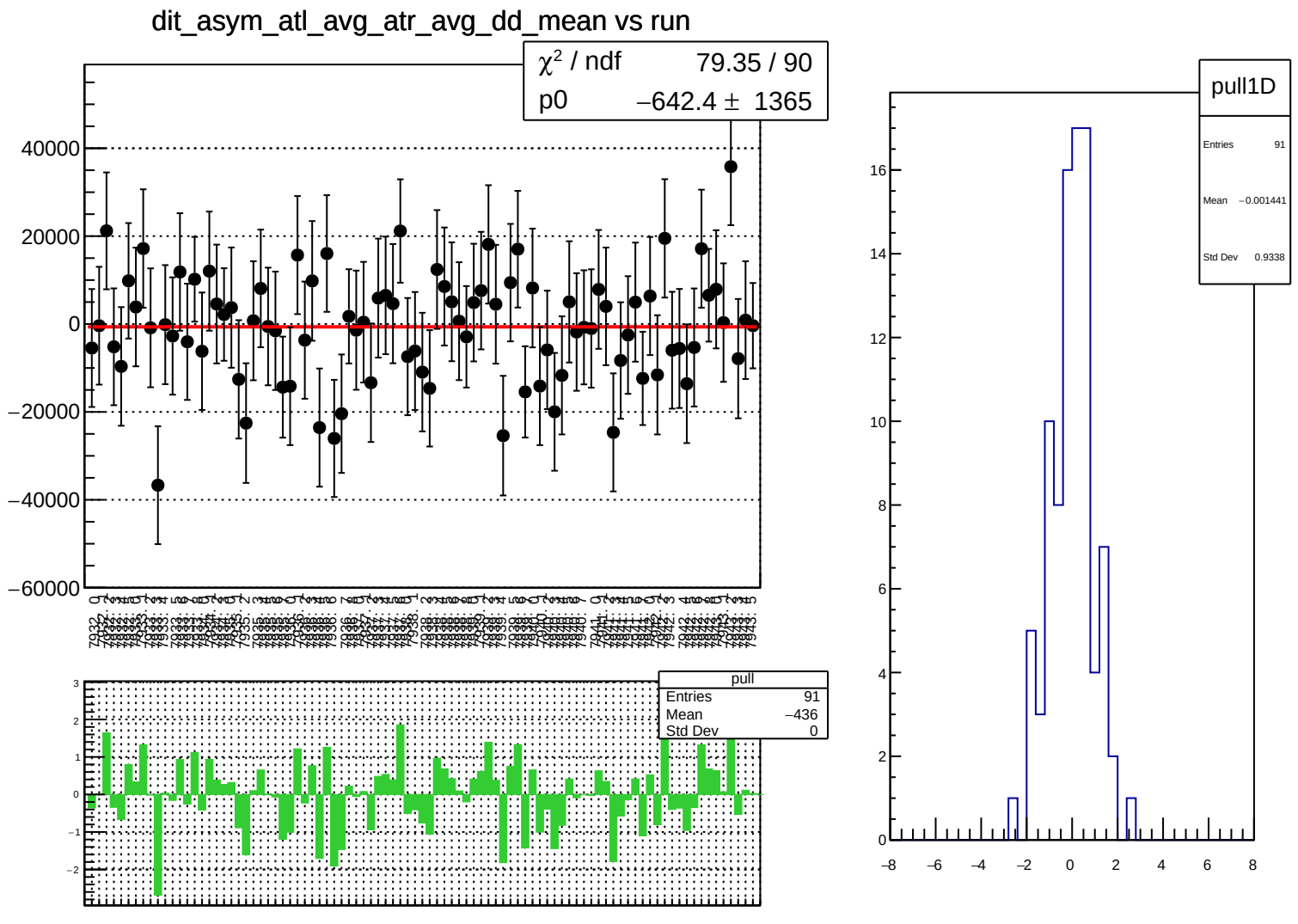

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3845 / 90
p0 1618 ± 1.225
1900
1800
1700
1600
1500
1400

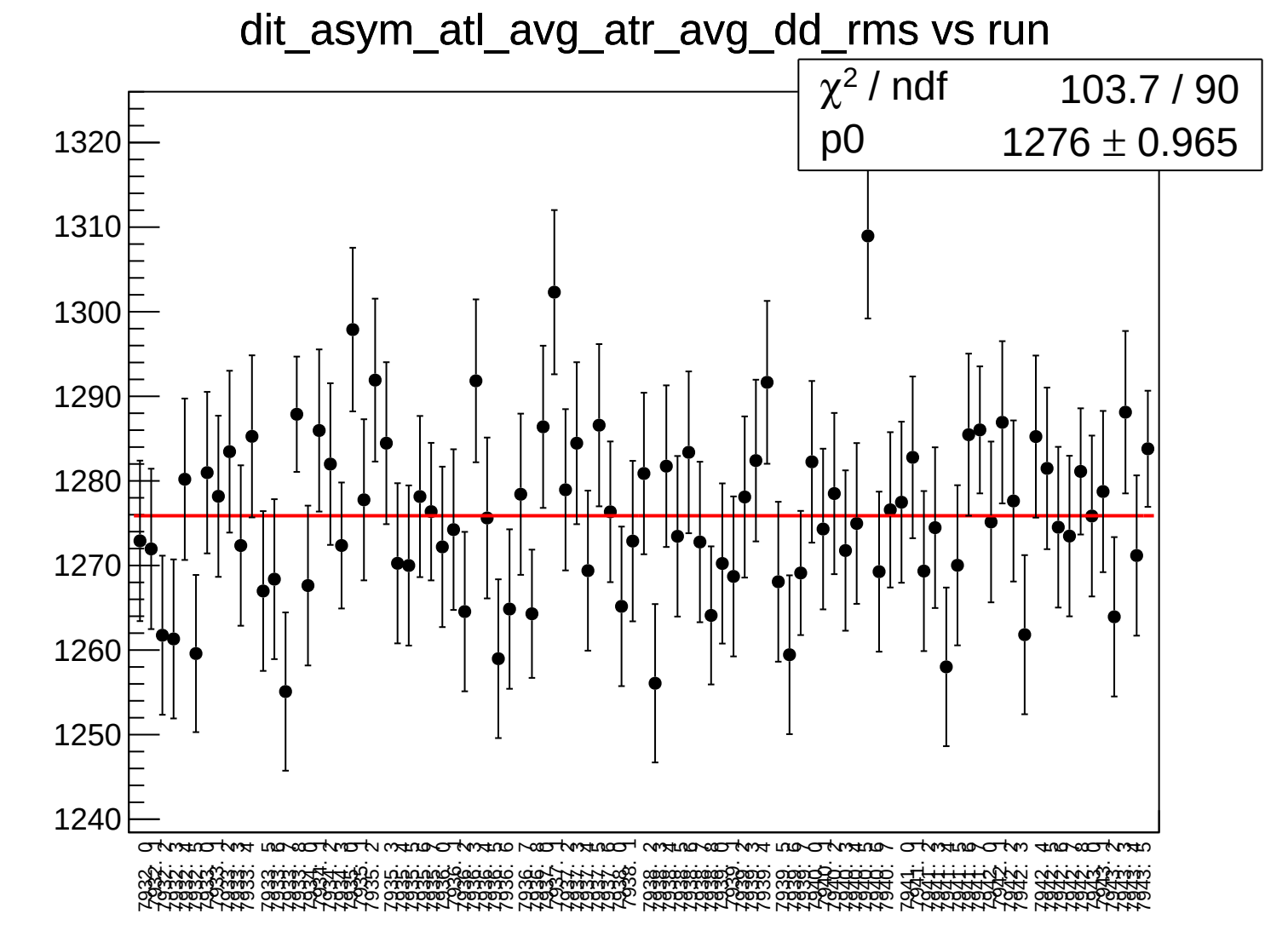

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.79 / 90
p0 −667.2 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −620.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001134
Std Dev 0.9246
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

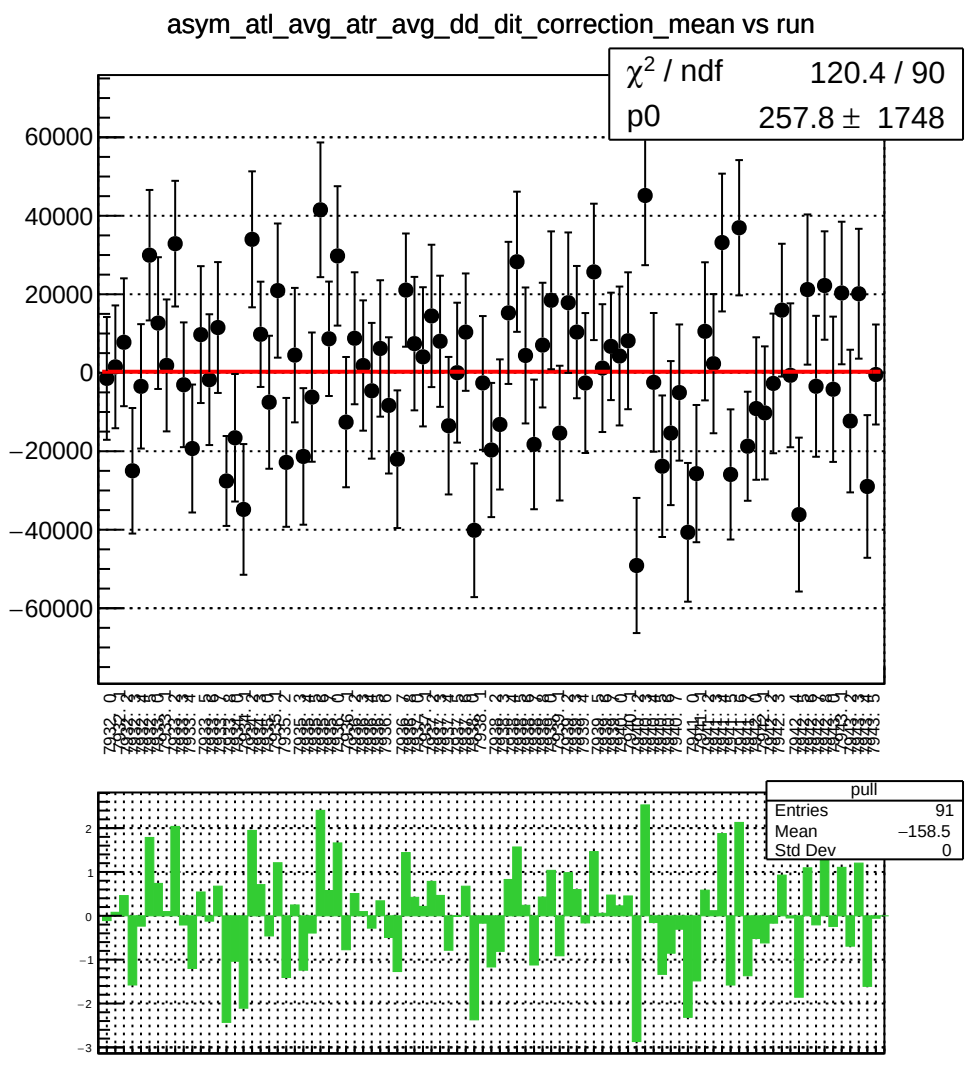

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.1 / 90
p0 1274 ± 0.9637
1320
1310
1300
1290
1280
1270
1260
1250
1240

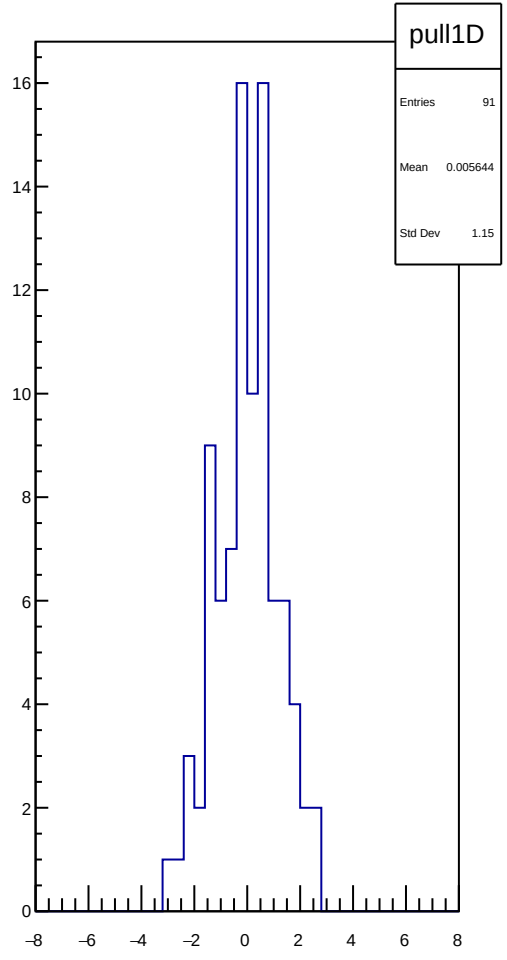

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 120 / 90
p0 235.7 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −140.9
Std Dev 0
pull1D
Entries 91
Mean 0.006097
Std Dev 1.148

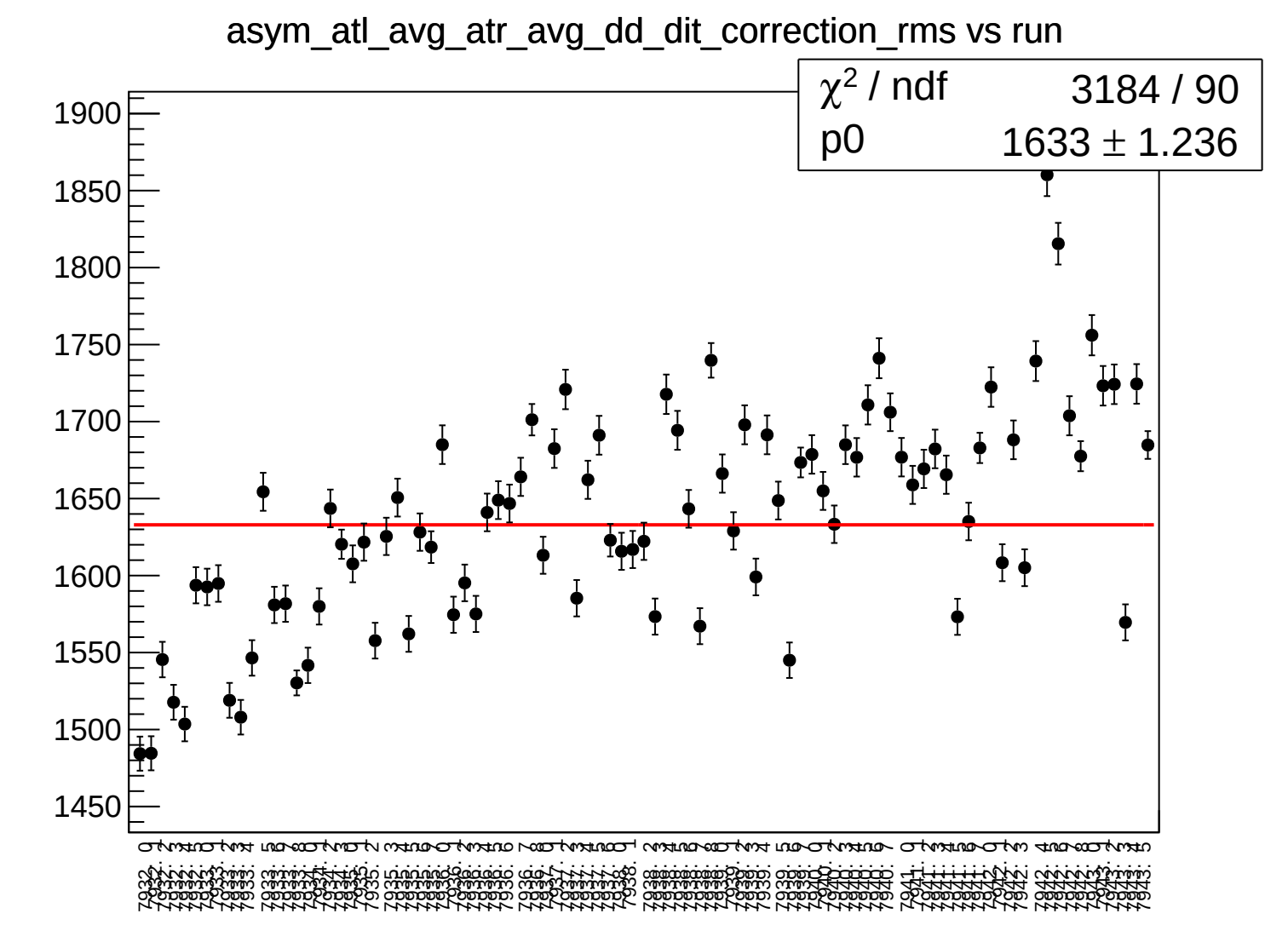

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3845 / 90
p0 1618 ± 1.225
1900
1800
1700
1600
1500
1400

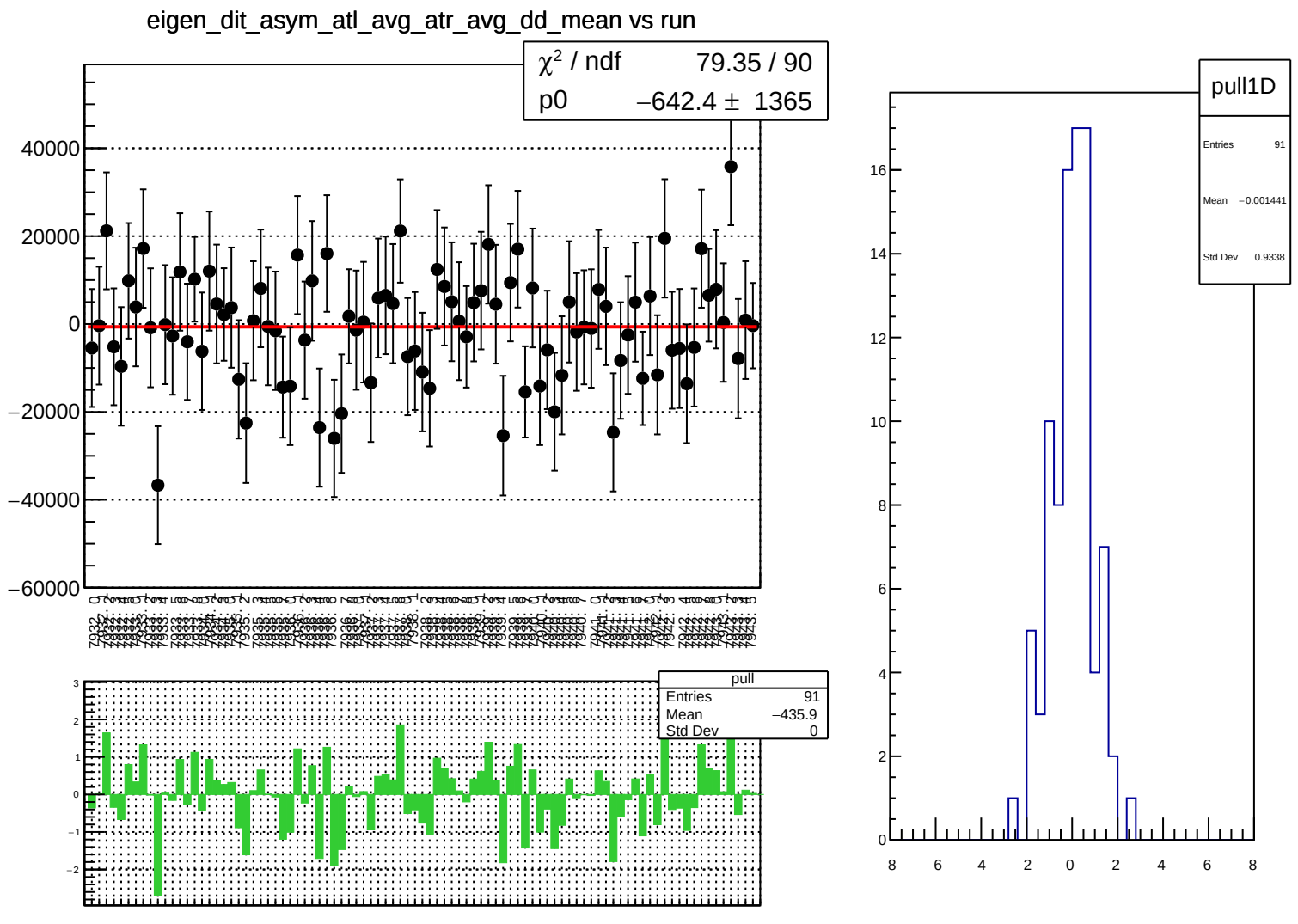

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.35 / 90
p0 −642.4 ± 1365
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −436
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001441
Std Dev 0.9338
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

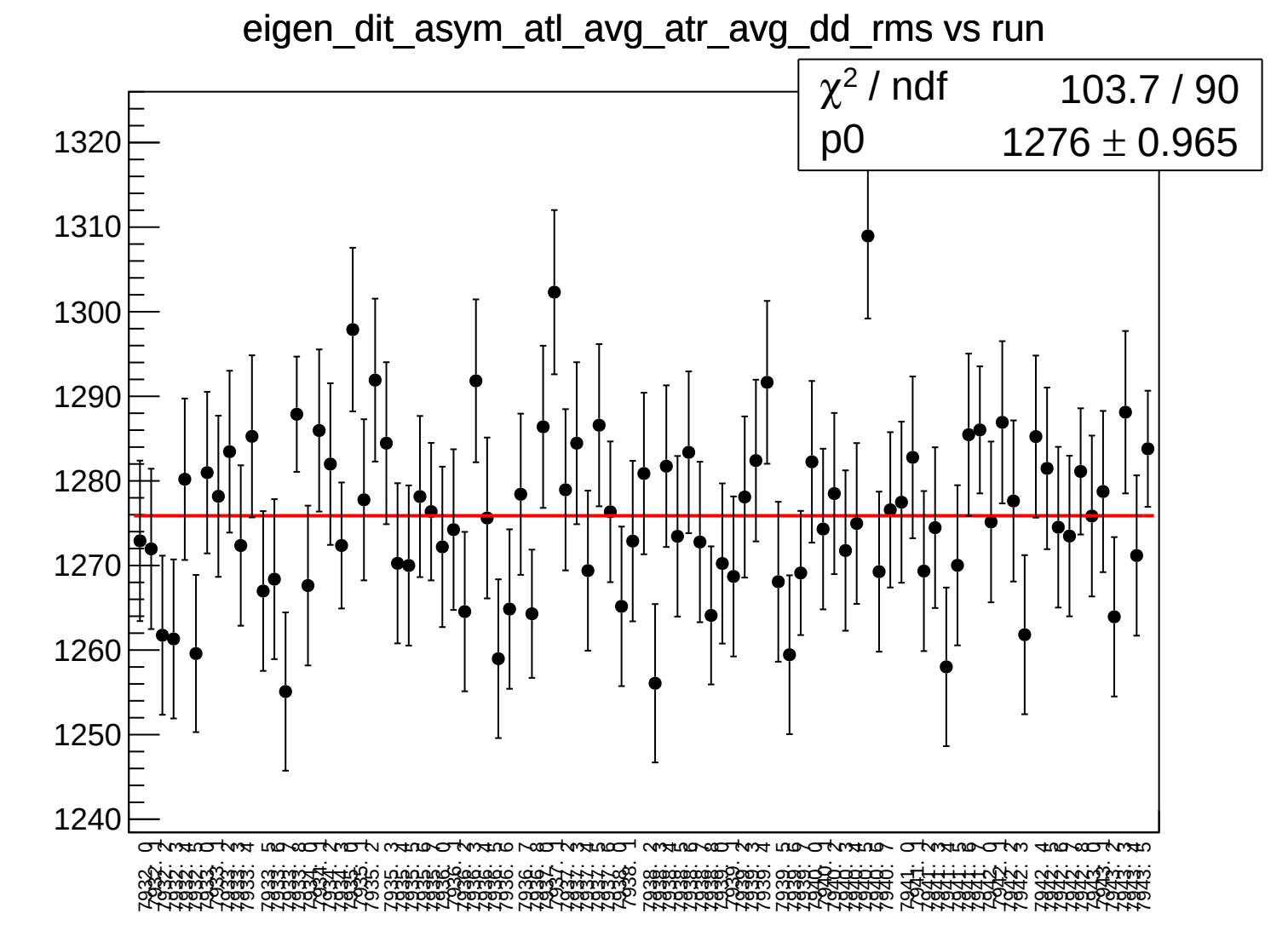

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.7 / 90
p0 1276 ± 0.965
1320
1310
1300
1290
1280
1270
1260
1250
1240

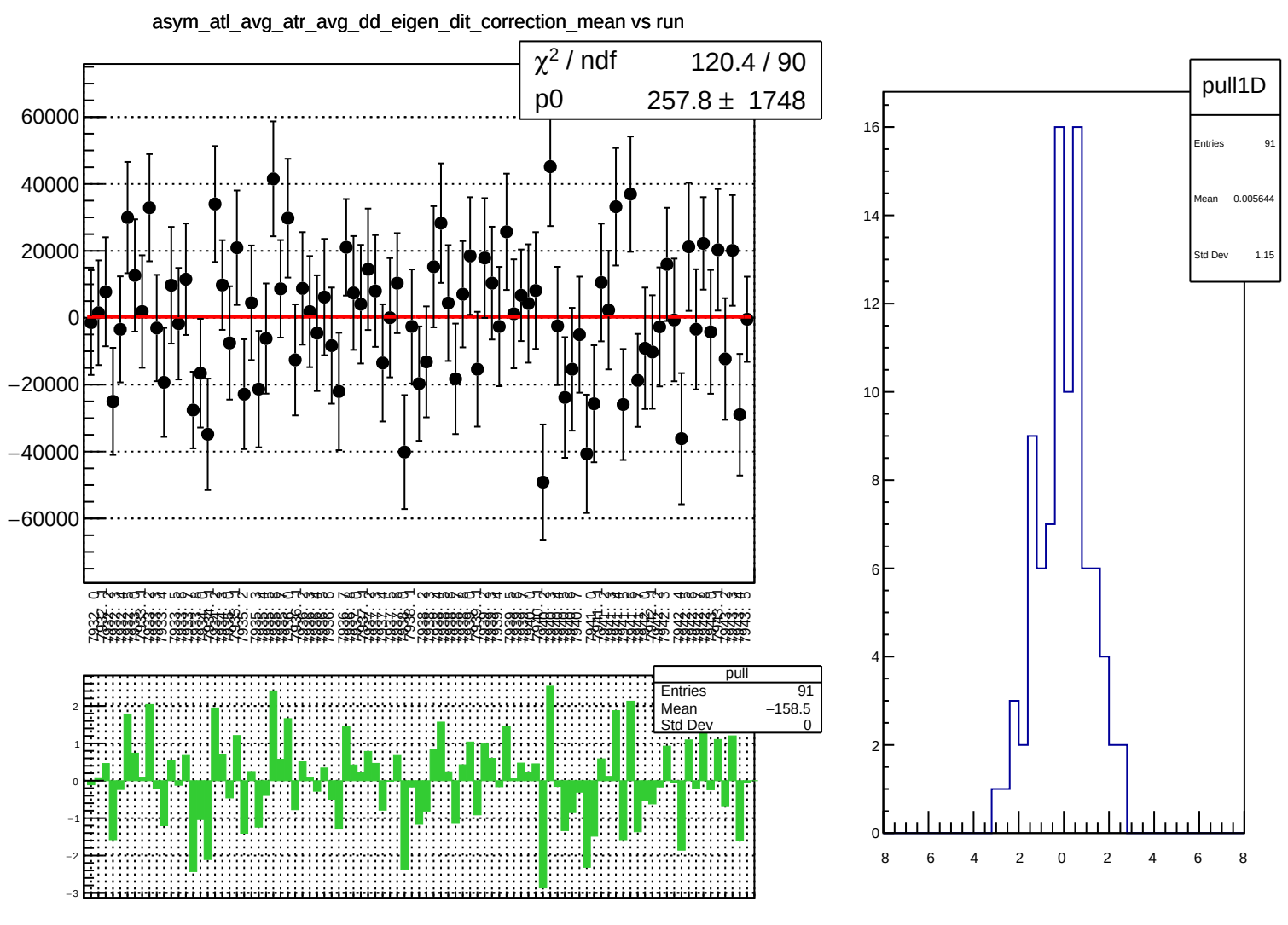

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 120.4 / 90
p0 257.8 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −158.5
Std Dev 0
2
1
0
−1
−2
−3

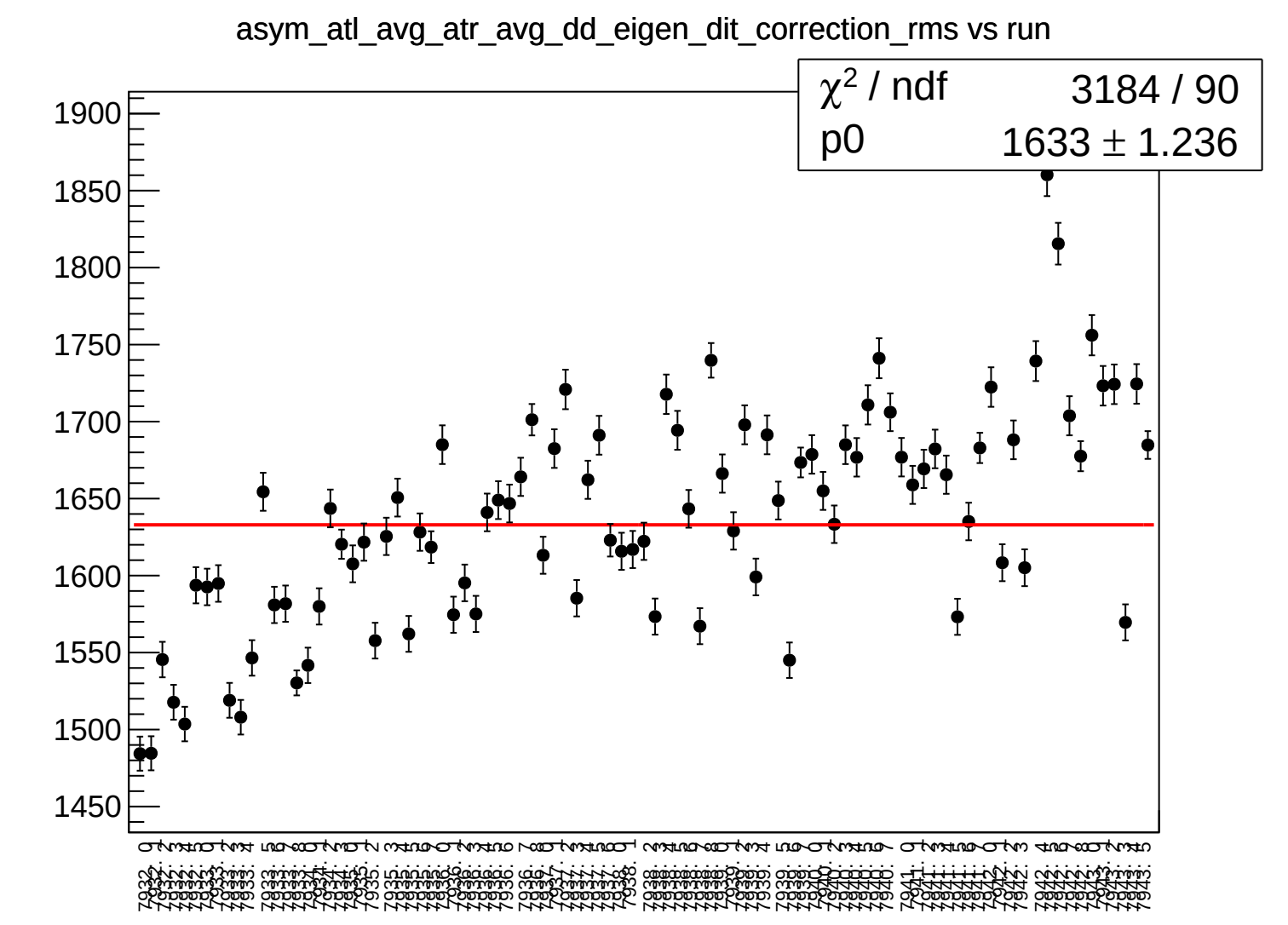

pull1D
Entries 91
Mean 0.005644
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

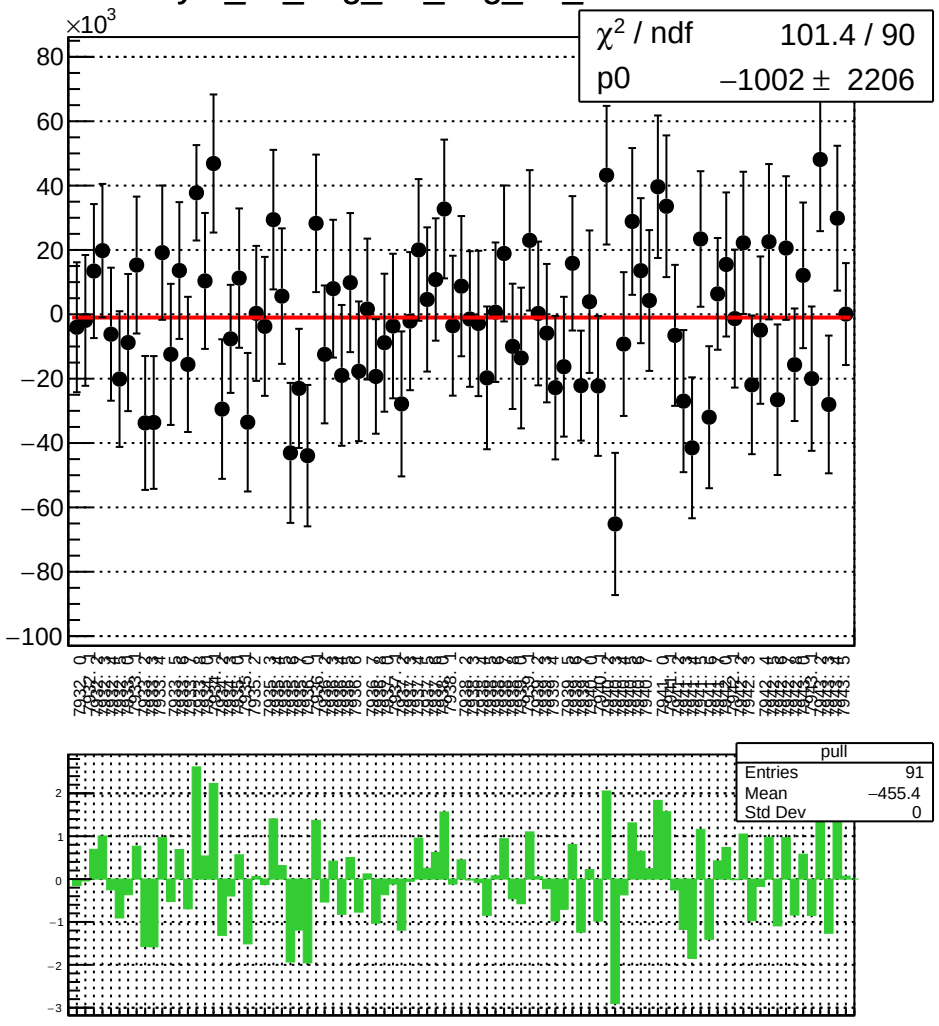

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3184 / 90
p0 1633 ± 1.236
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

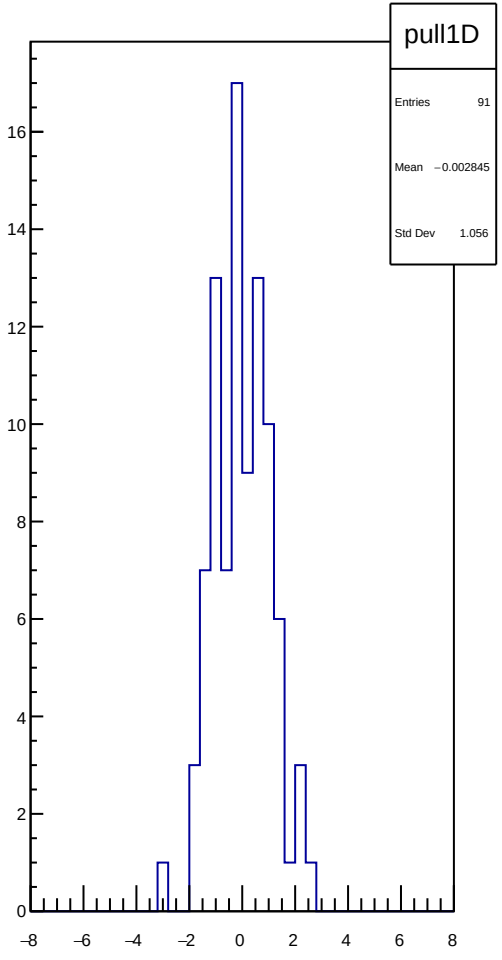

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.35 / 90
p0 −642.4 ± 1365
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −435.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001441
Std Dev 0.9338
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

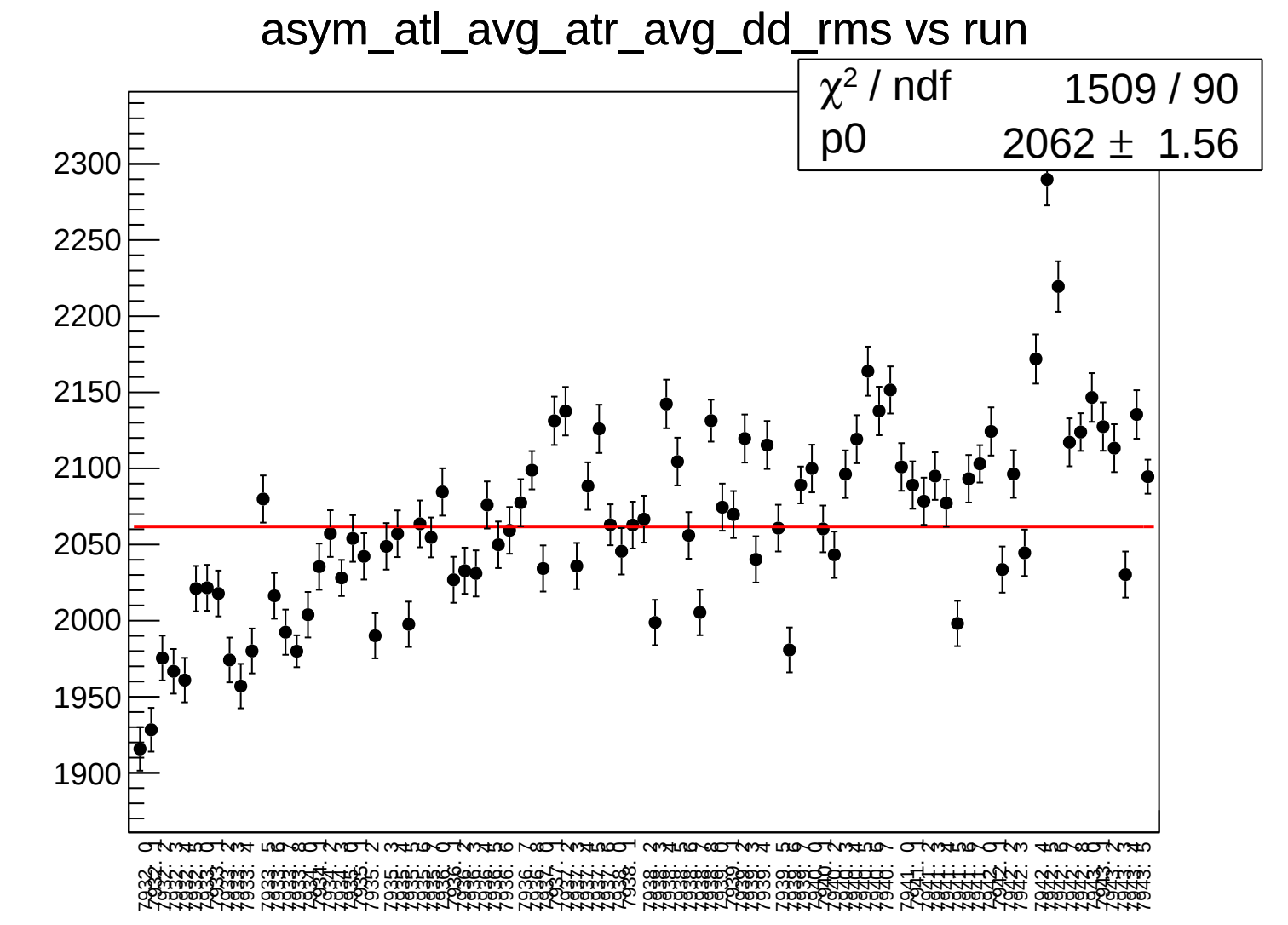

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.7 / 90
p0 1276 ± 0.965
1320
1310
1300
1290
1280
1270
1260
1250
1240

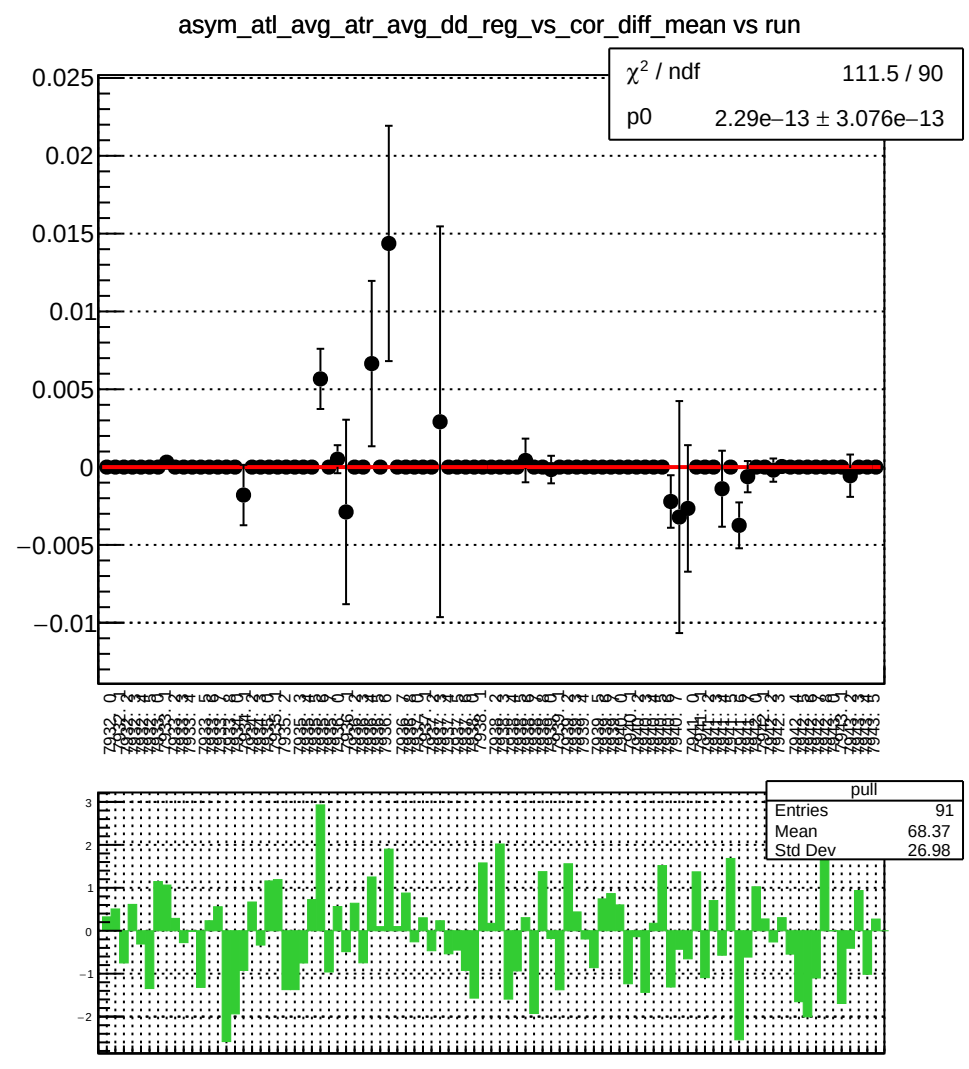

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 120.4 / 90
p0 257.8 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −158.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.005644
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

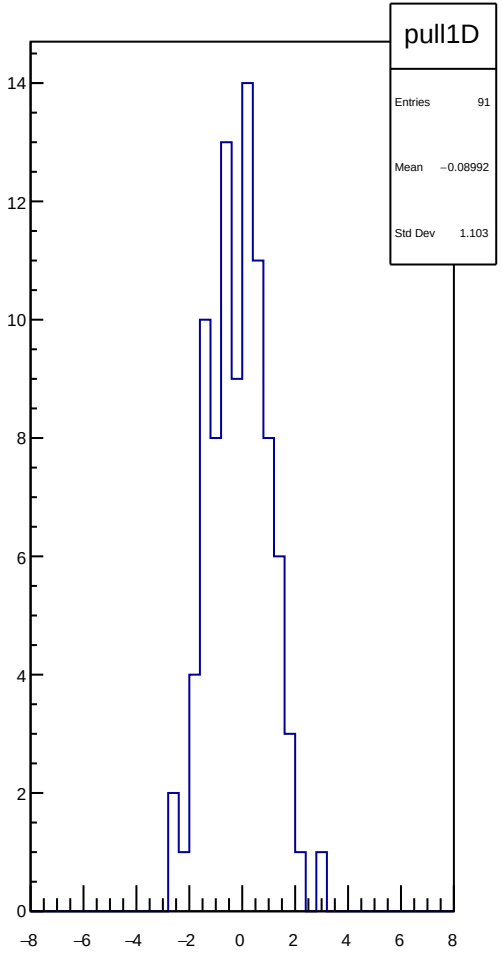

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3184 / 90
p0 1633 ± 1.236
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

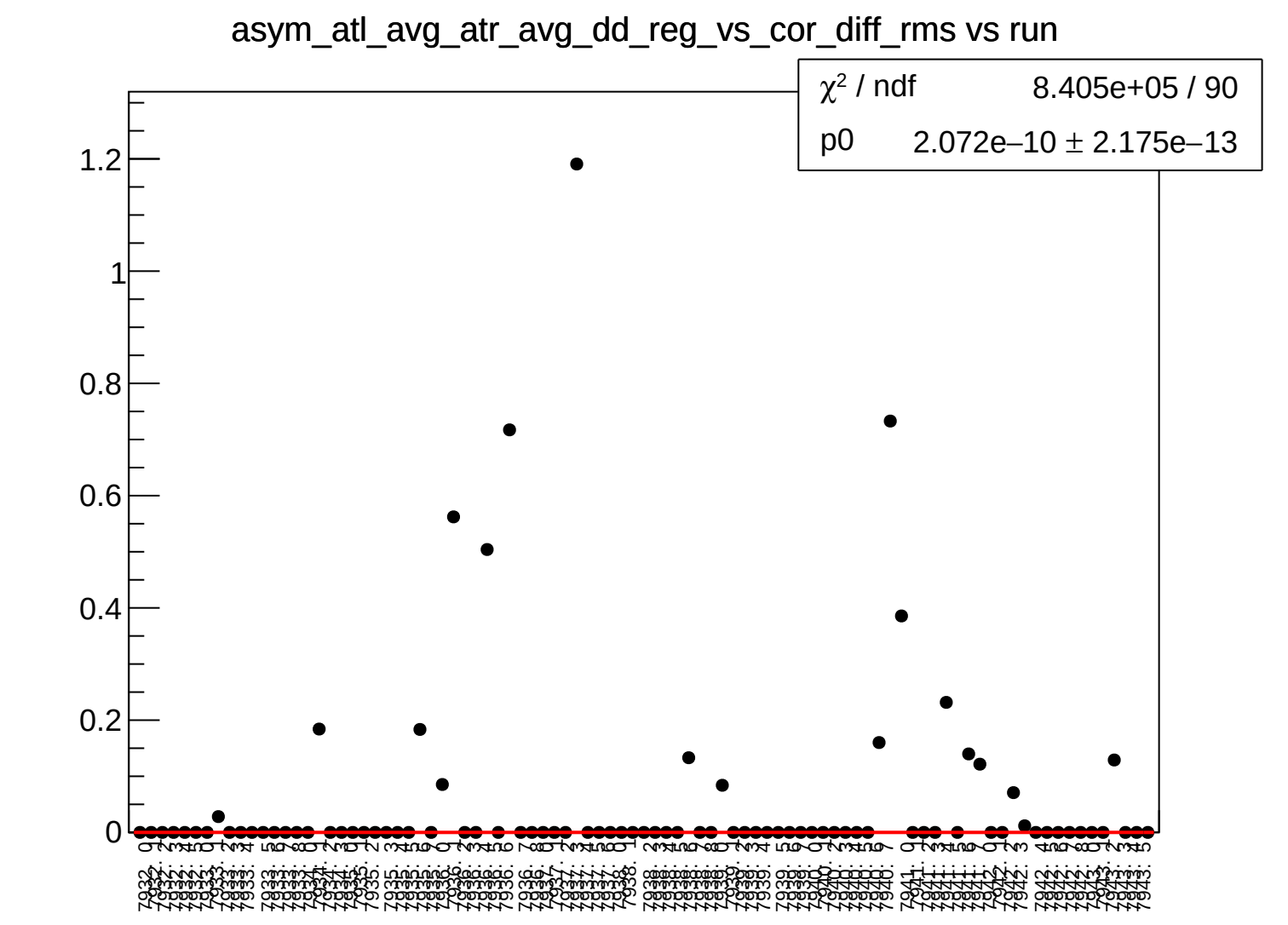

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.4 / 90
p0 −1002 ± 2206
×10³
pull
Entries 91
Mean −455.4
Std Dev 0

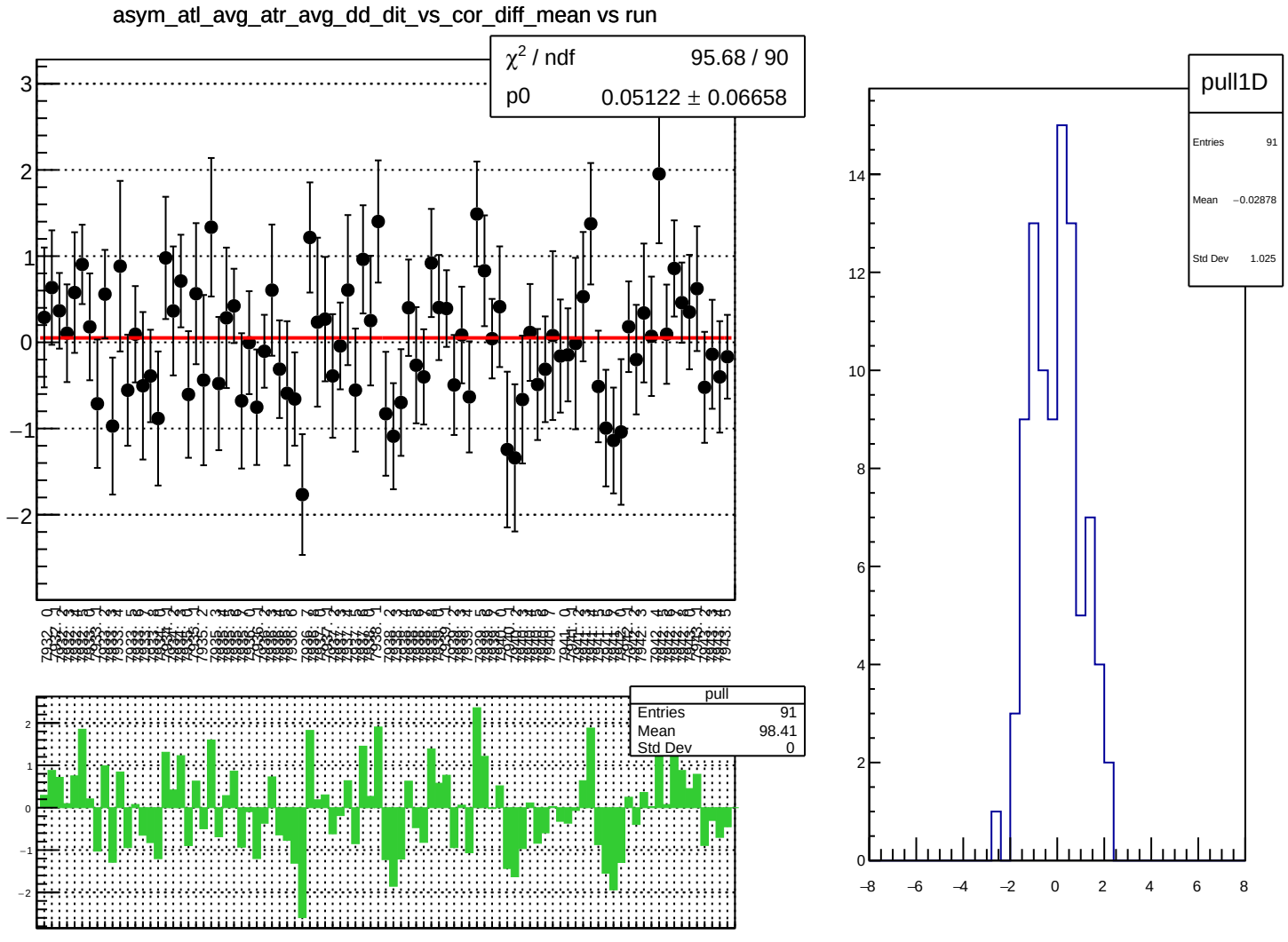

pull1D
Entries 91
Mean −0.002845
Std Dev 1.056

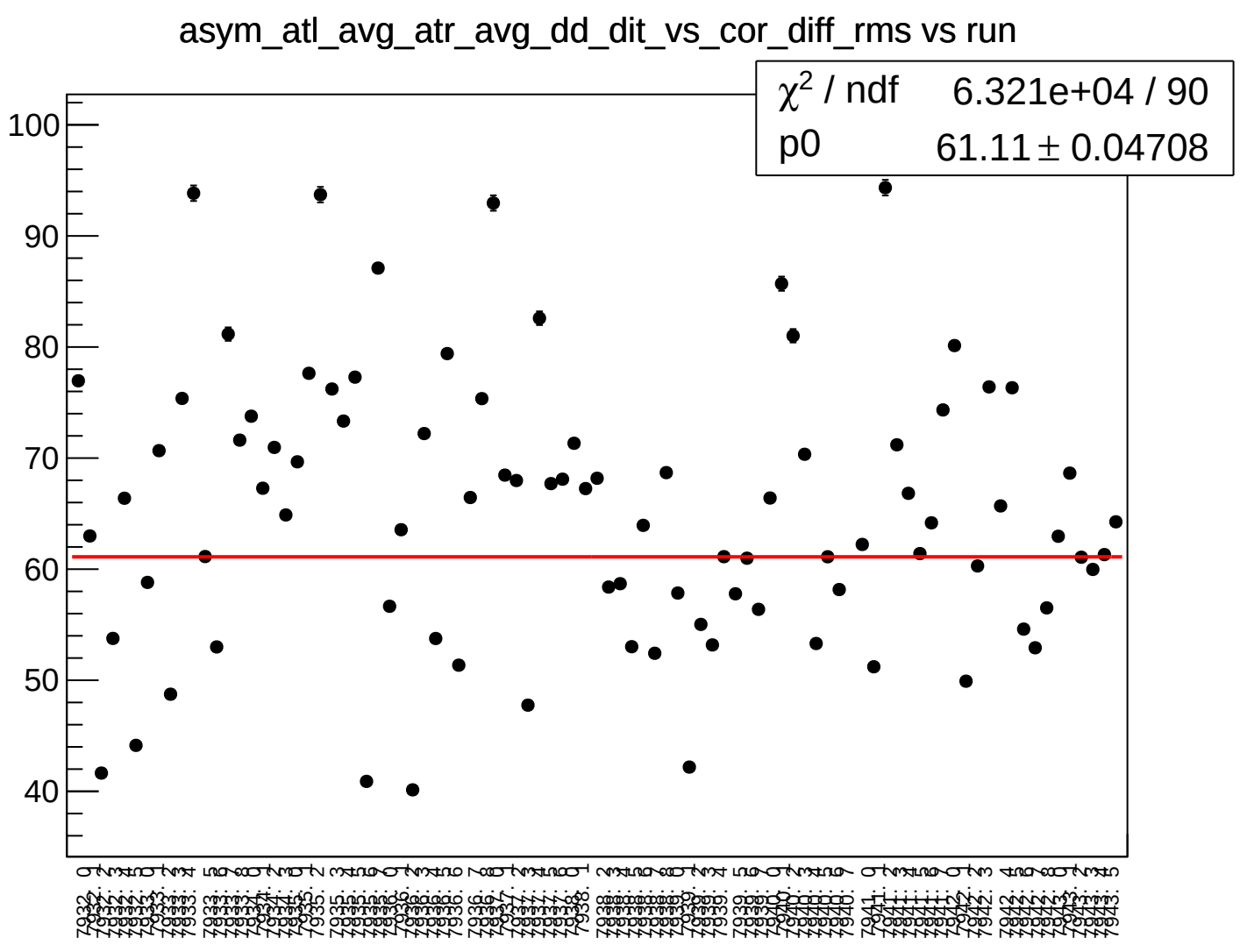

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1509 / 90
p0 2062 ± 1.56
2300
2250
2200
2150
2100
2050
2000
1950
1900

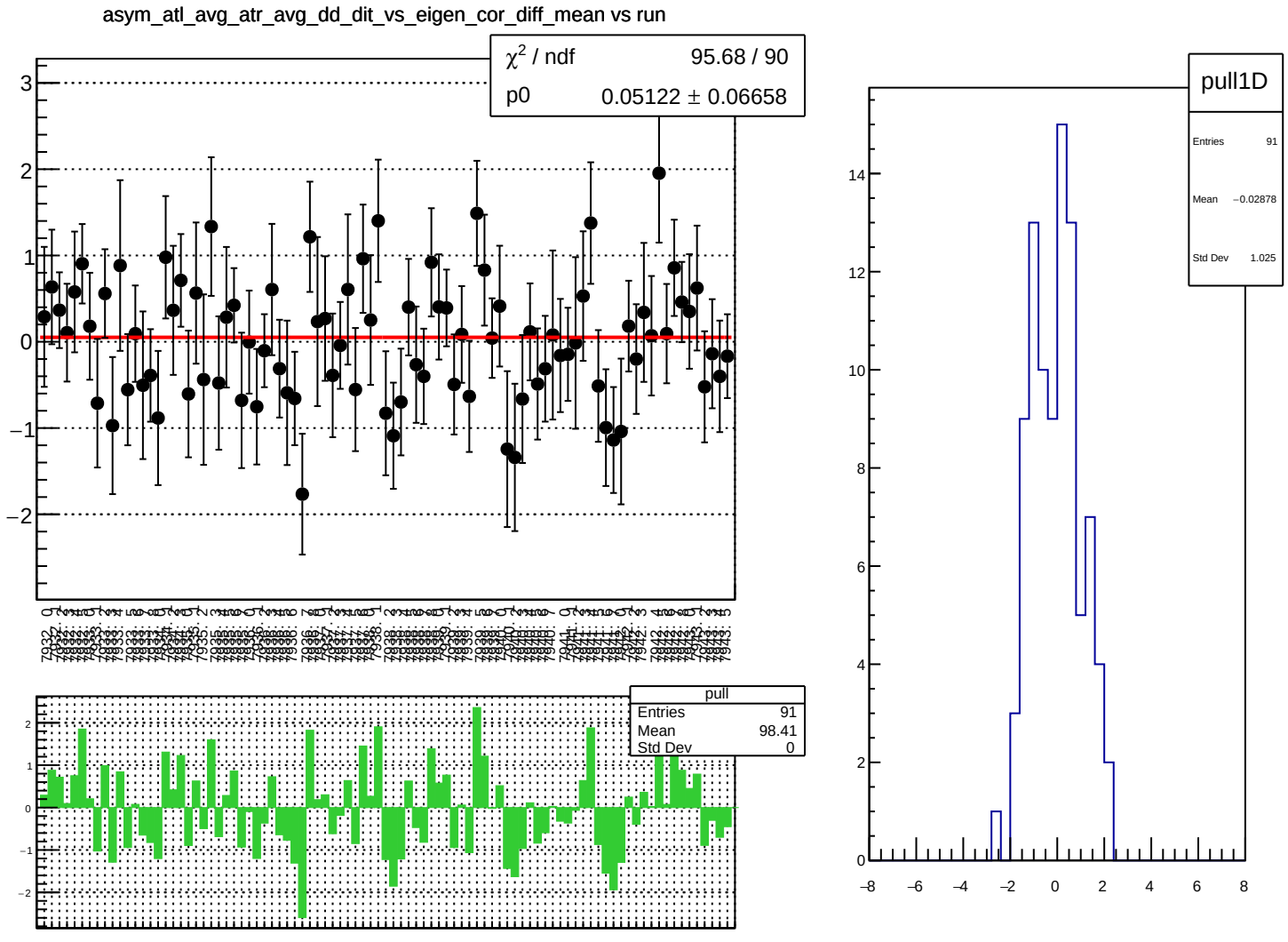

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.5 / 90
p0 2.29e−13 ± 3.076e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 68.37
Std Dev 26.98
3
2
1
0
−1
−2

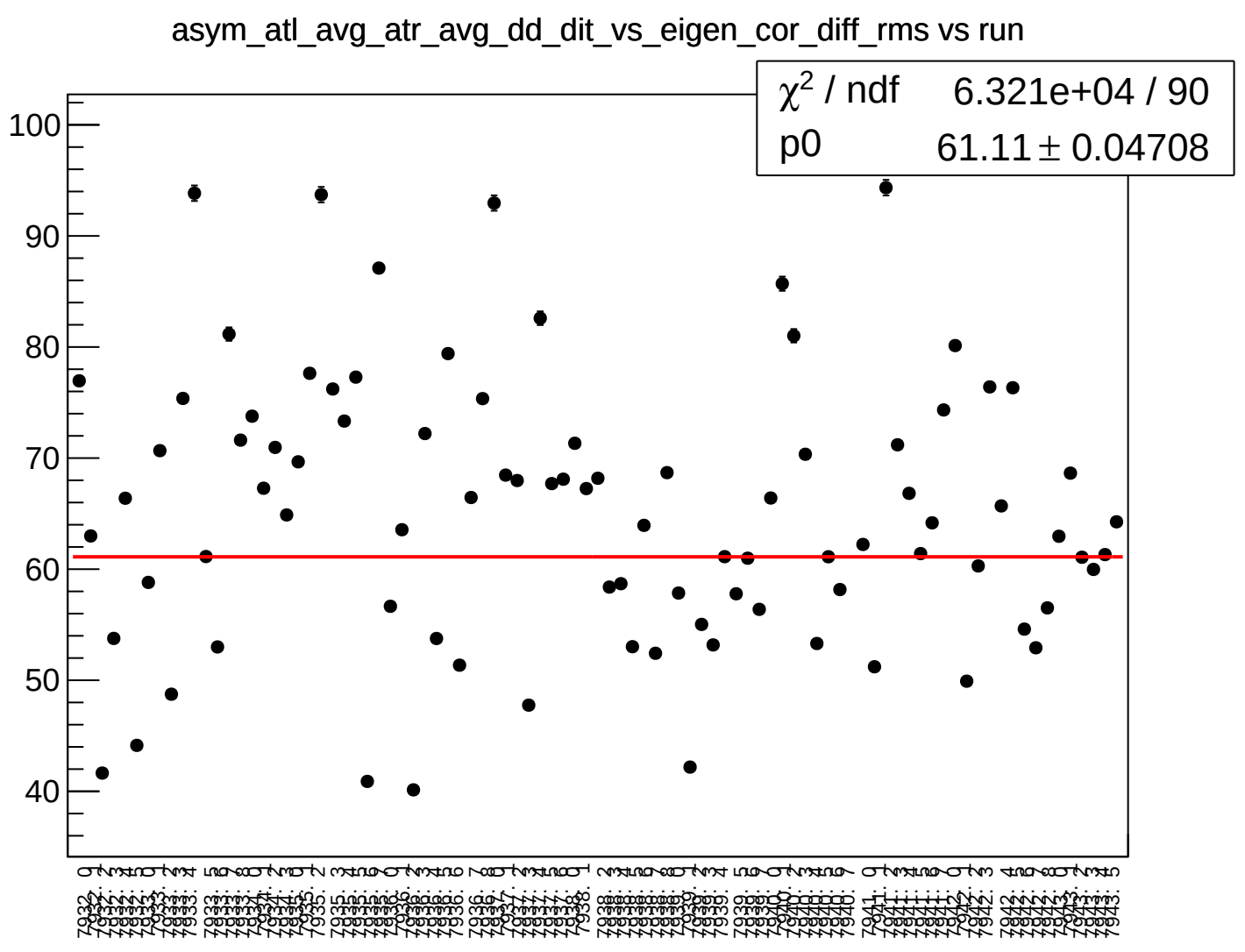

pull1D
Entries 91
Mean −0.08992
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

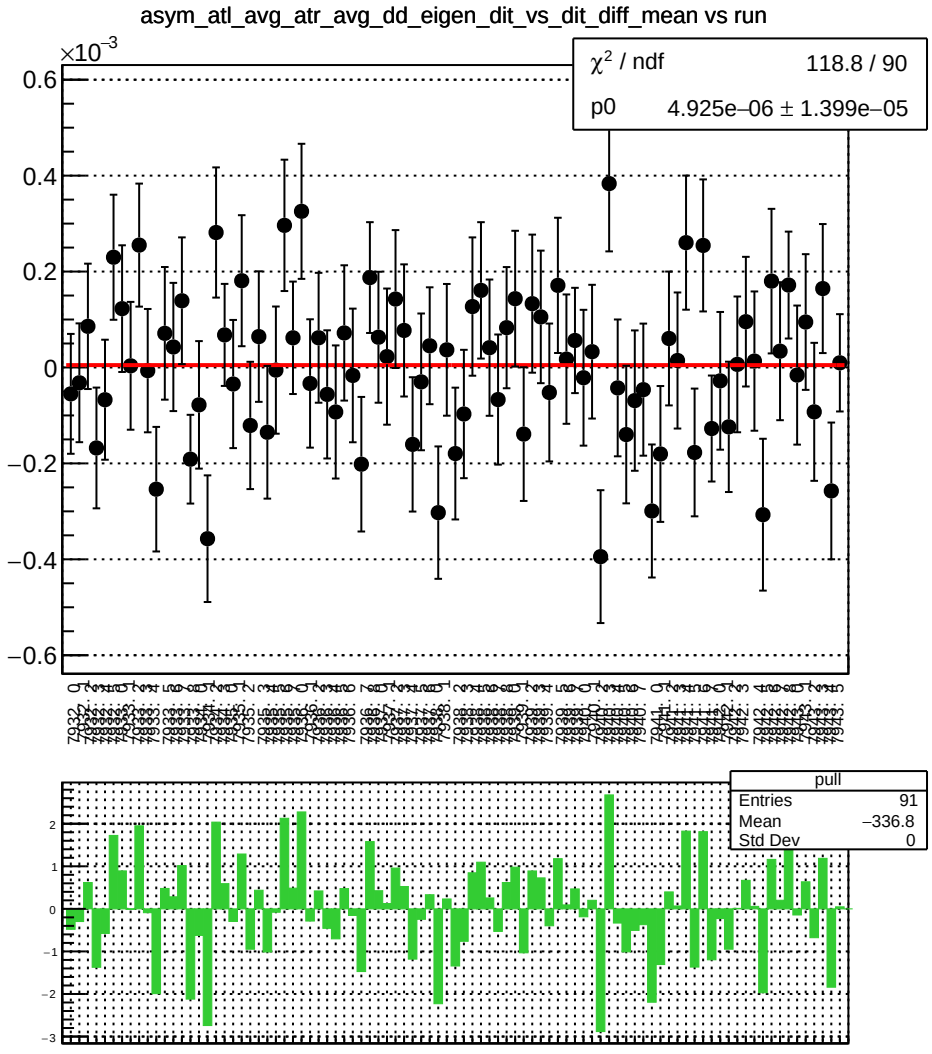

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.405e+05 / 90
p0 2.072e−10 ± 2.175e−13
1.2
1
0.8
0.6
0.4
0.2
0

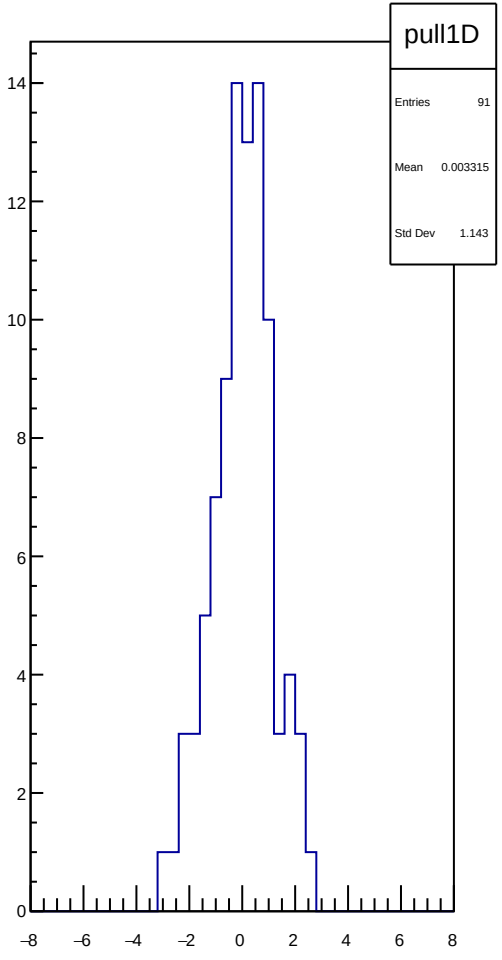

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05122 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0
pull1D
Entries 91
Mean −0.02878
Std Dev 1.025

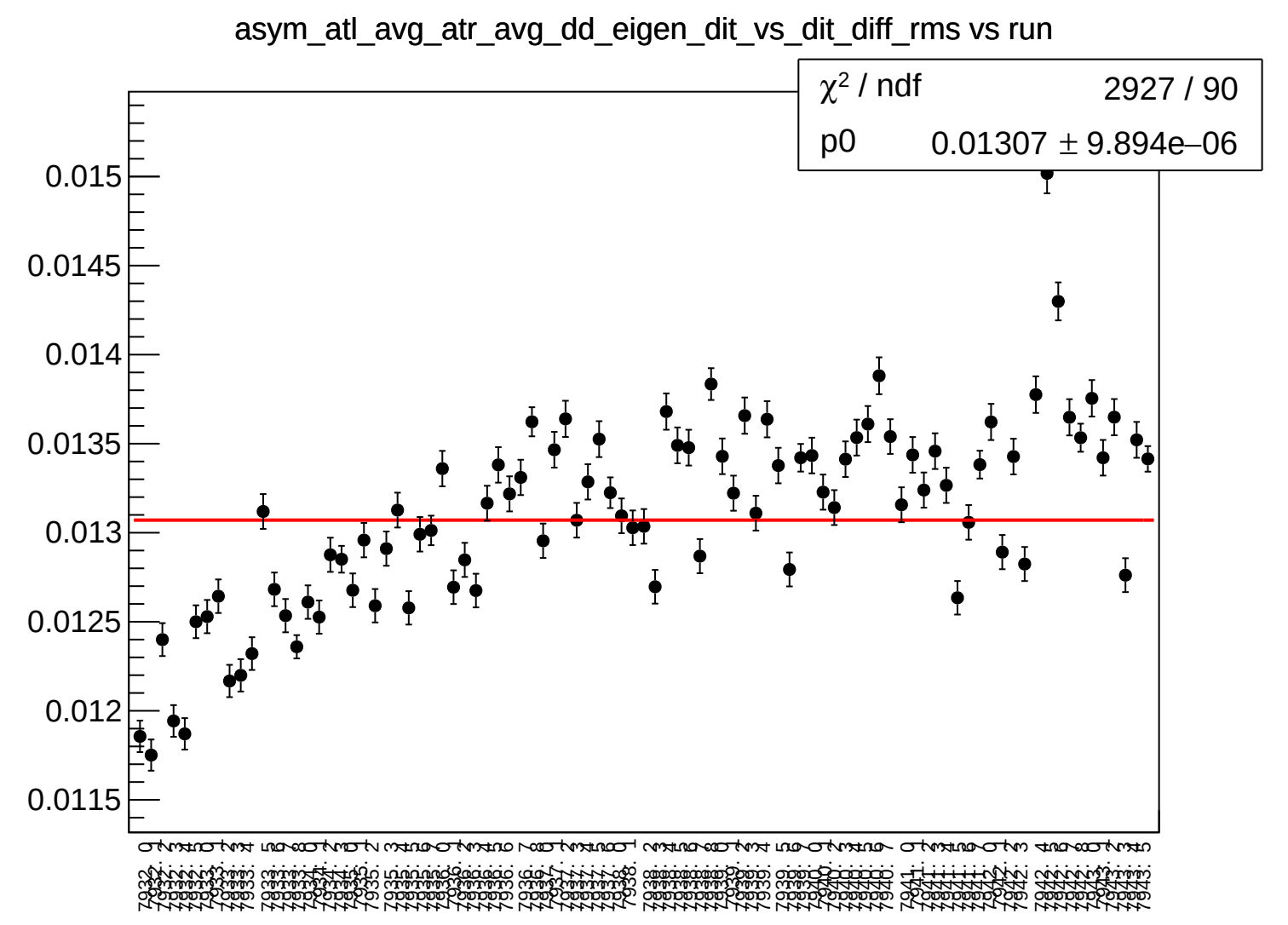

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

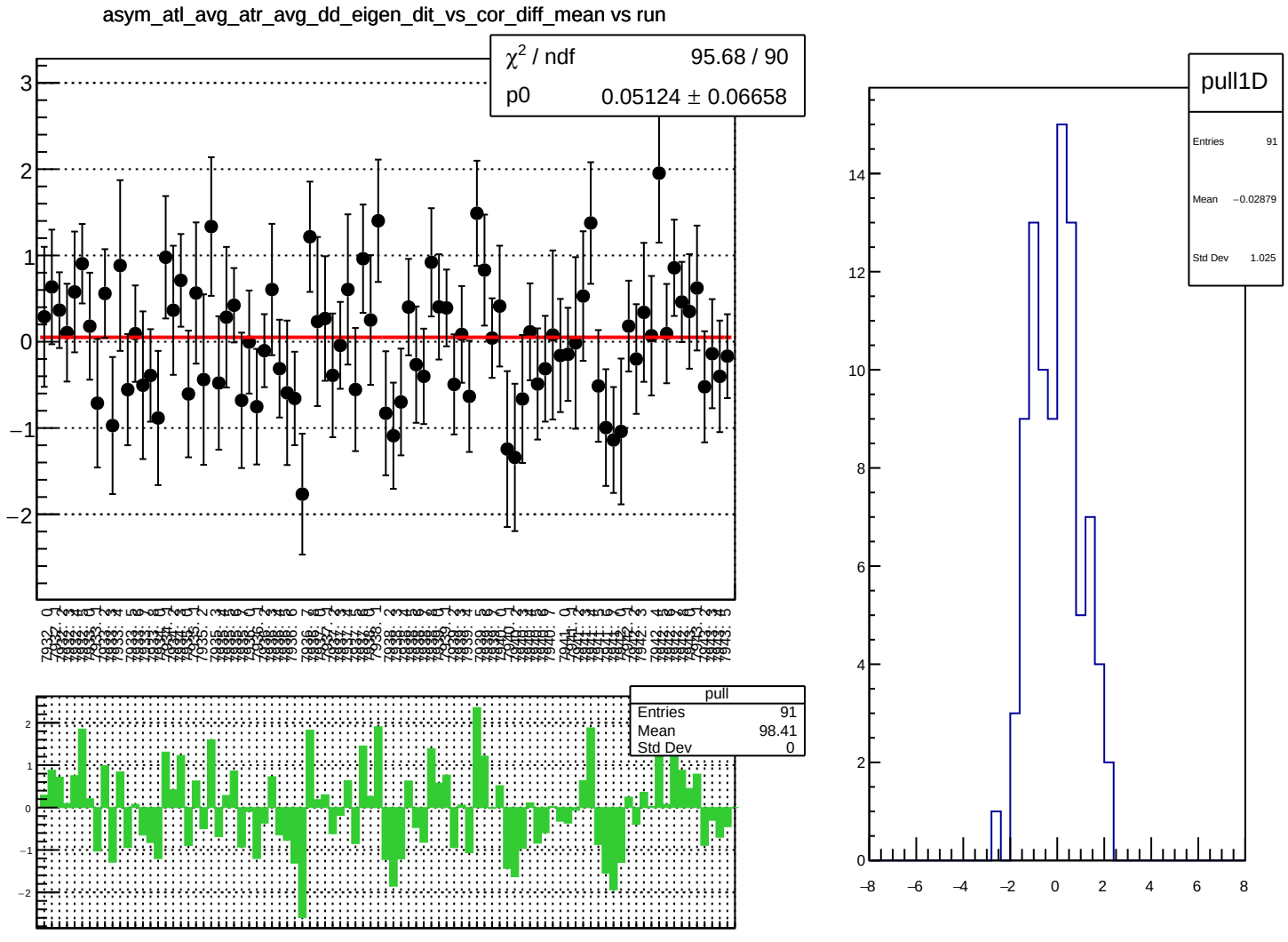

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05122 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0
pull1D
Entries 91
Mean −0.02878
Std Dev 1.025

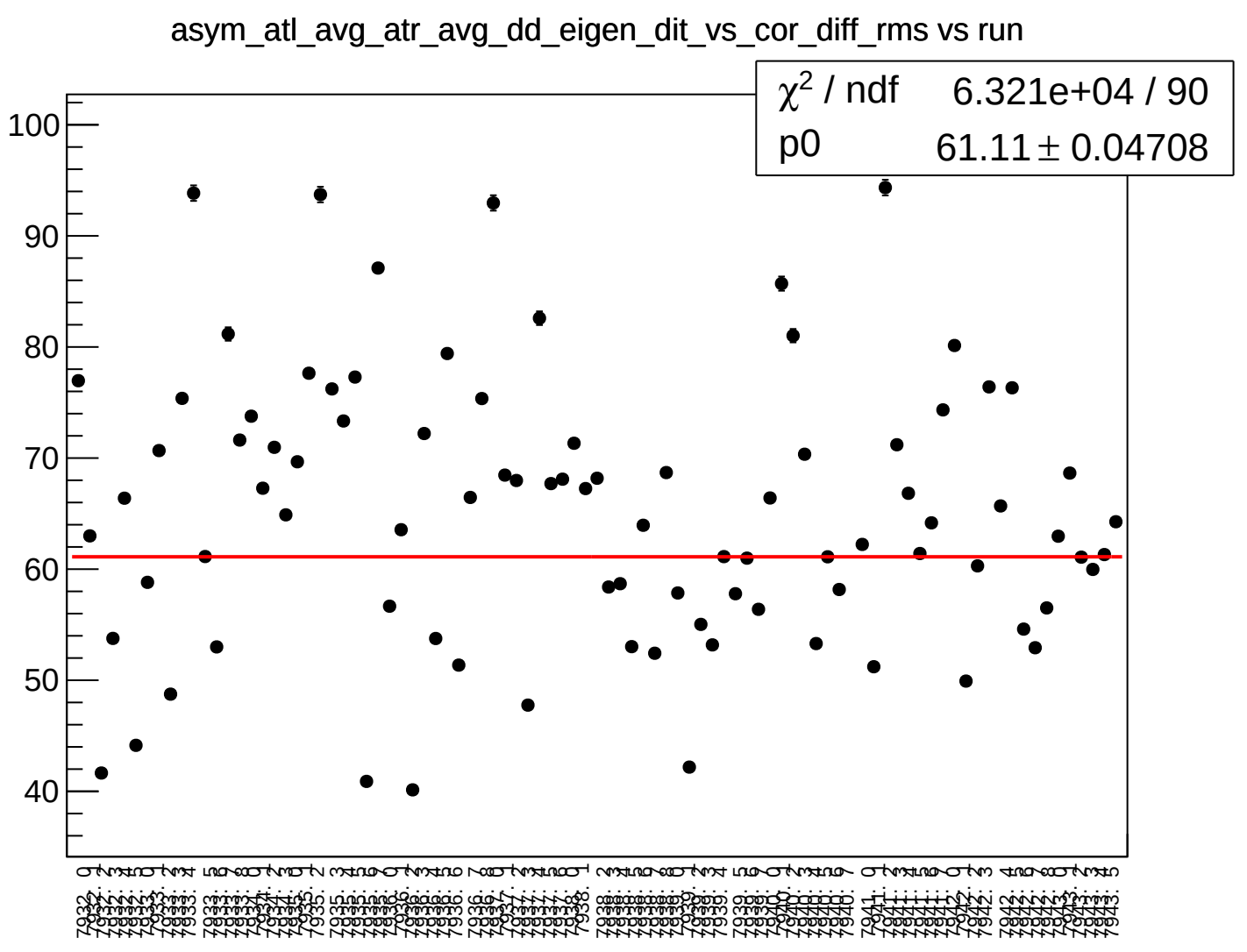

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

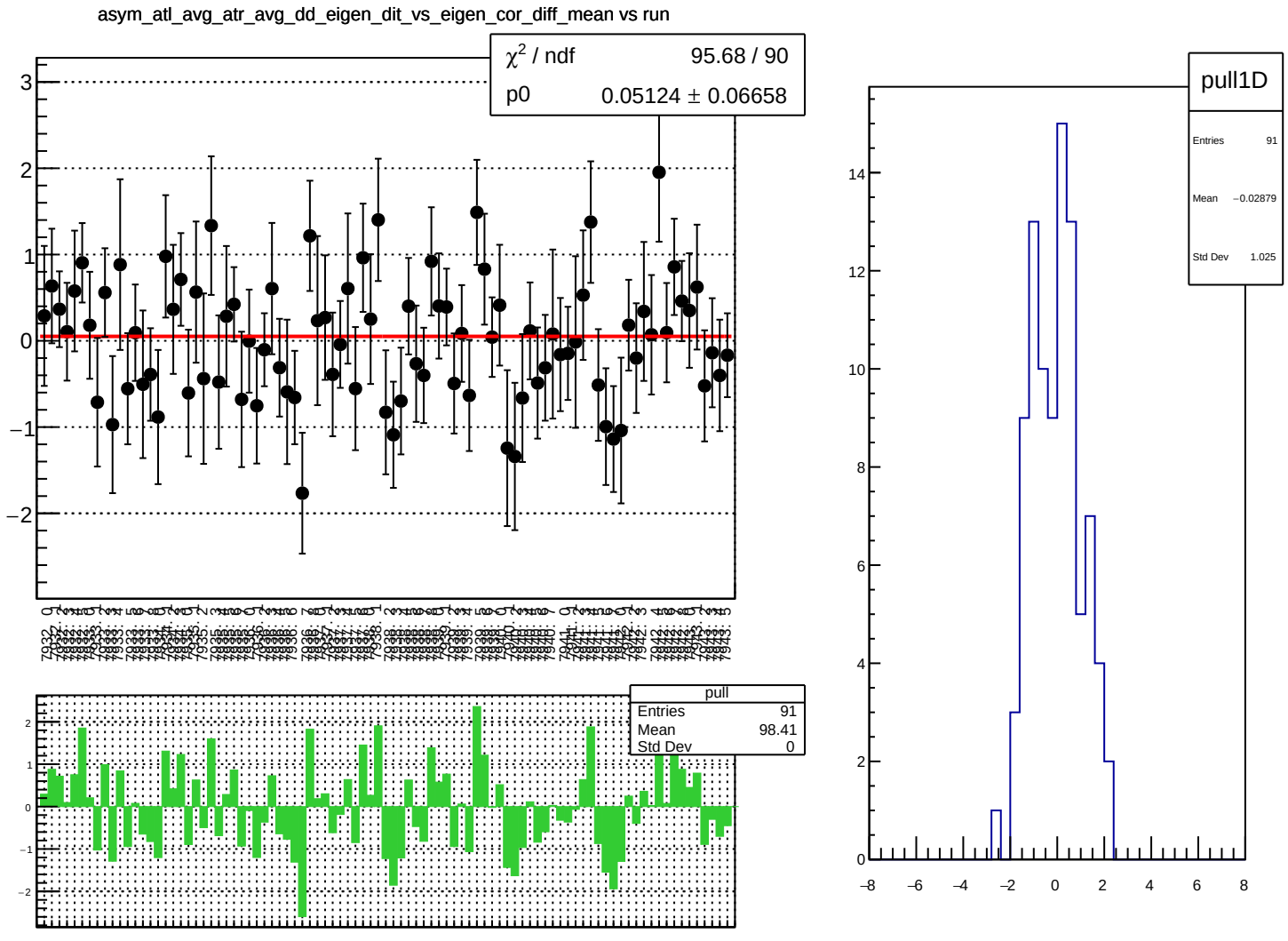

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.8 / 90
p0 4.925e−06 ± 1.399e−05
pull
Entries 91
Mean −336.8
Std Dev 0

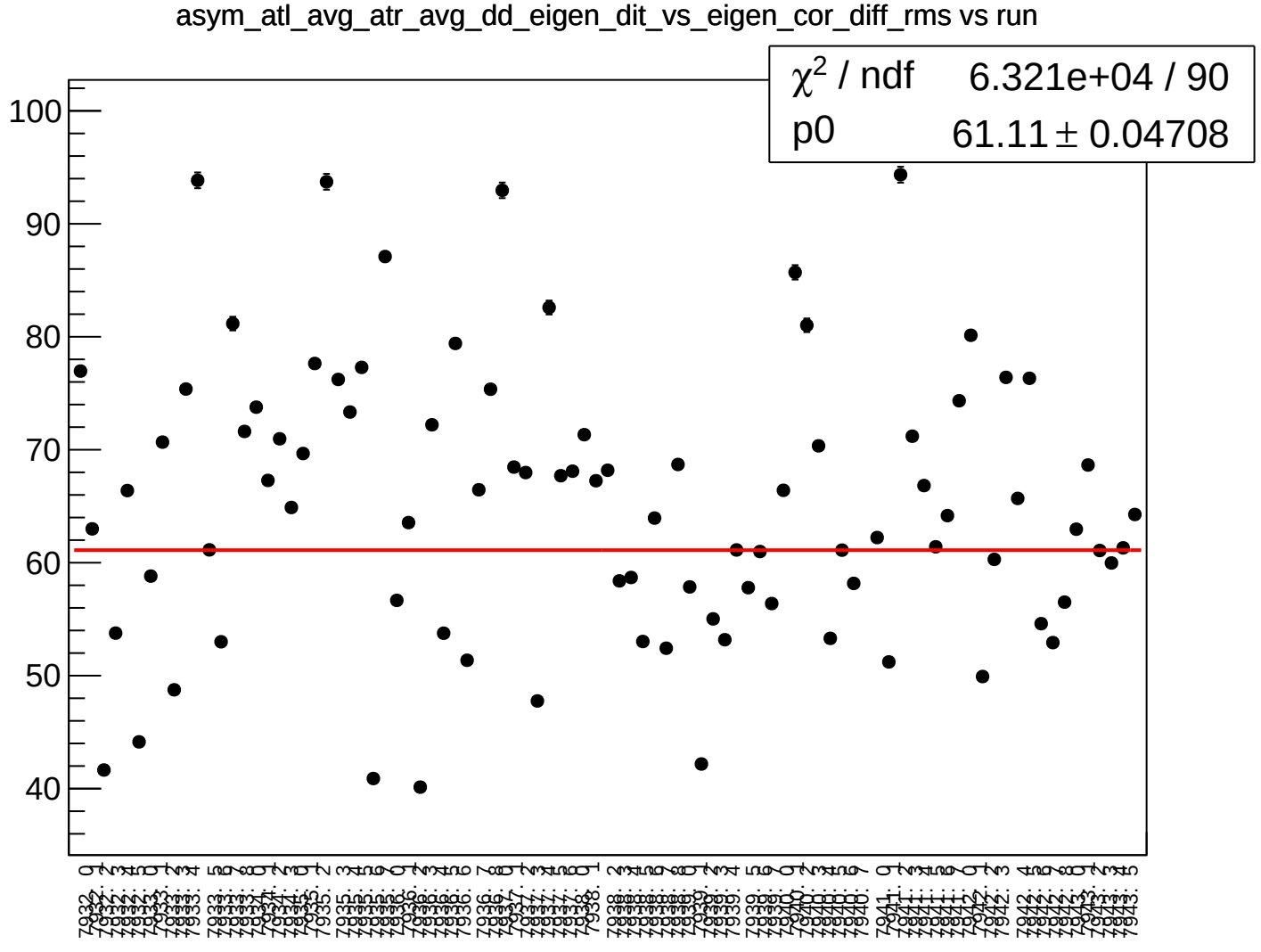

pull1D
Entries 91
Mean 0.003315
Std Dev 1.143

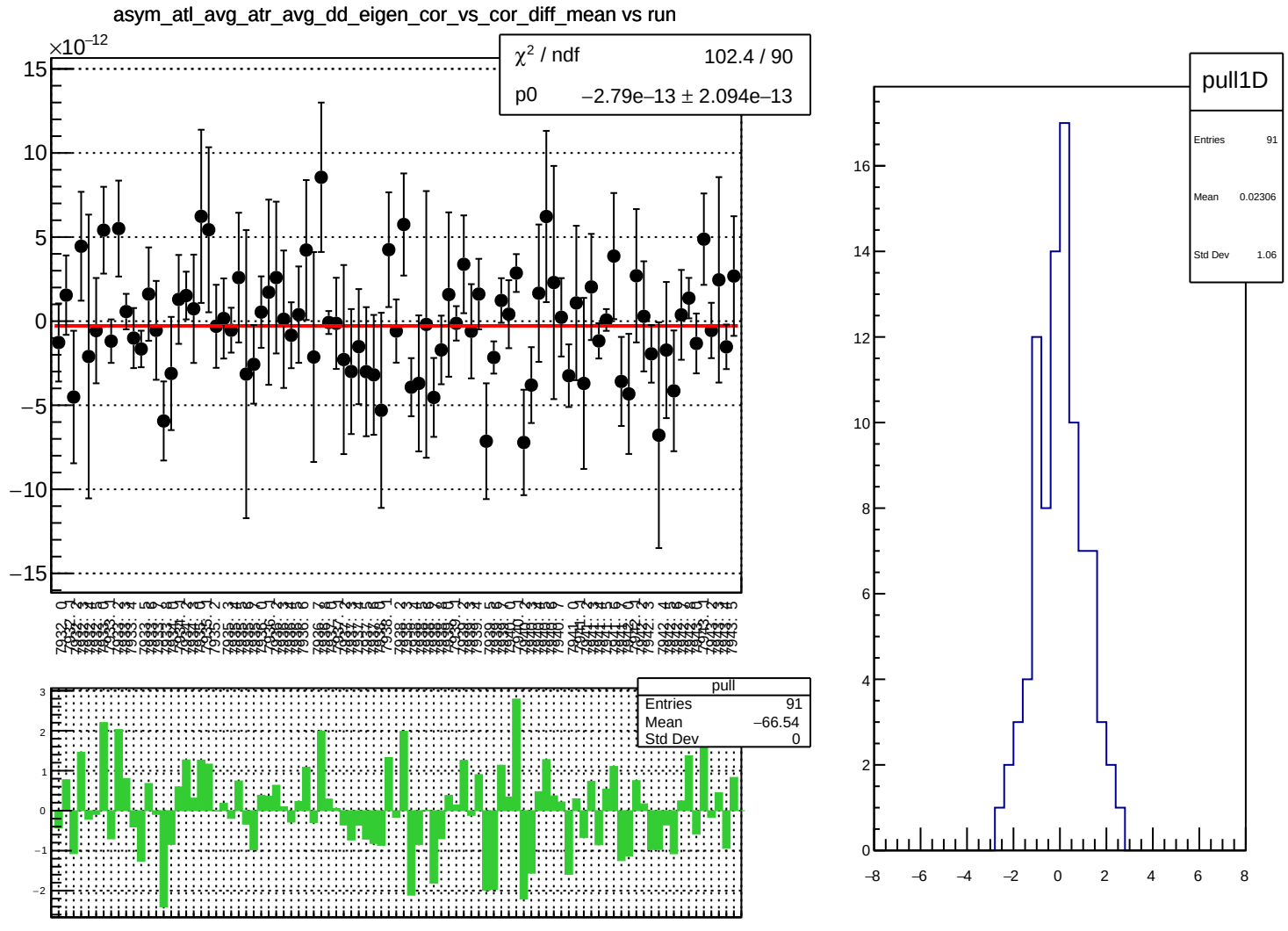

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2927 / 90
p0 0.01307 ± 9.894e−06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

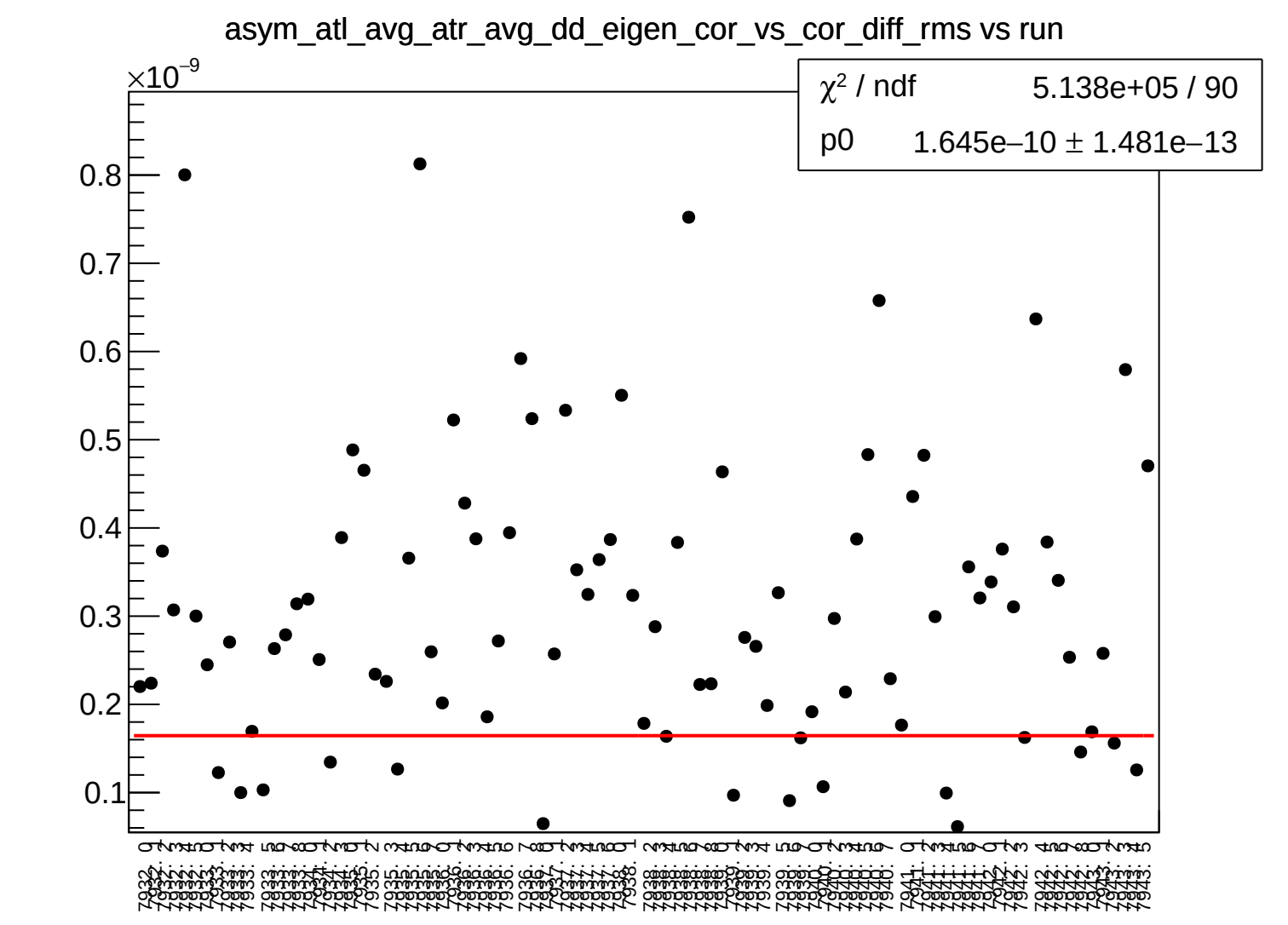

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05124 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0
pull1D
Entries 91
Mean −0.02879
Std Dev 1.025

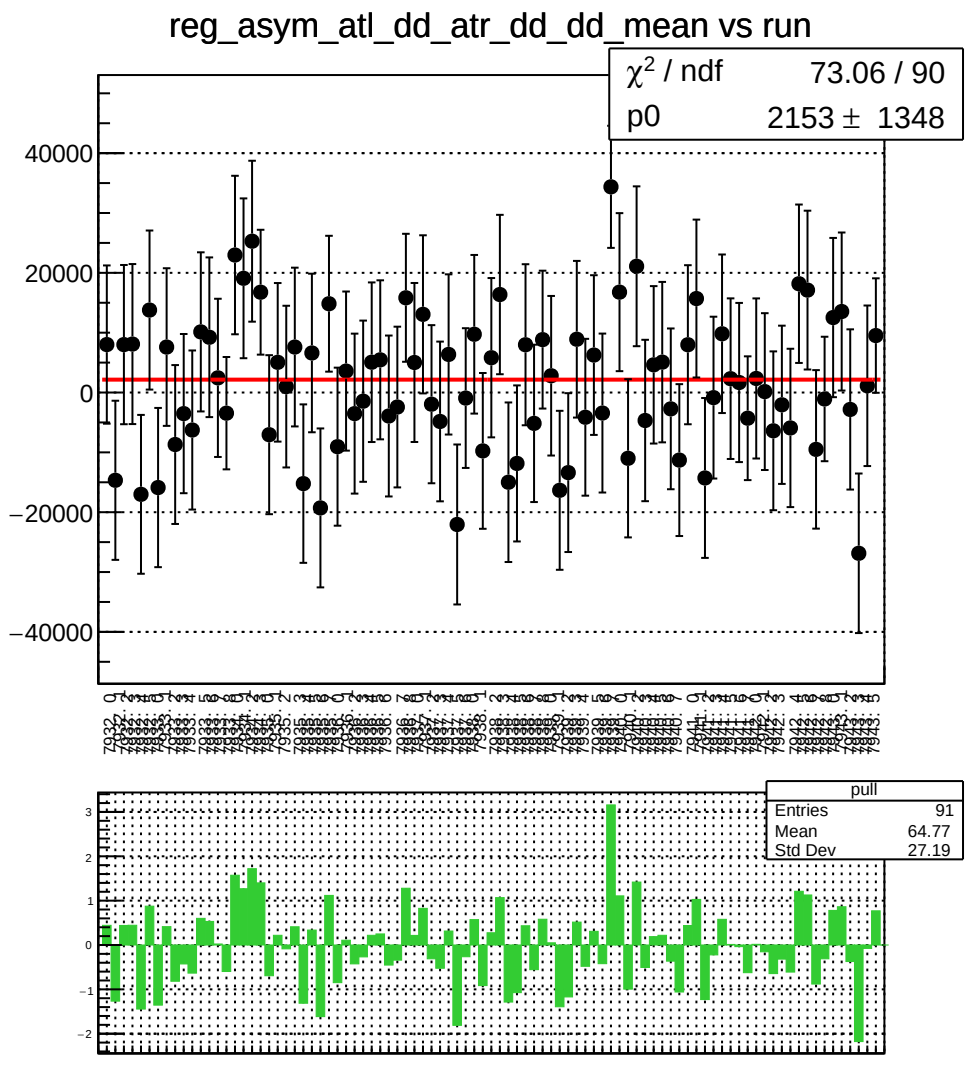

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

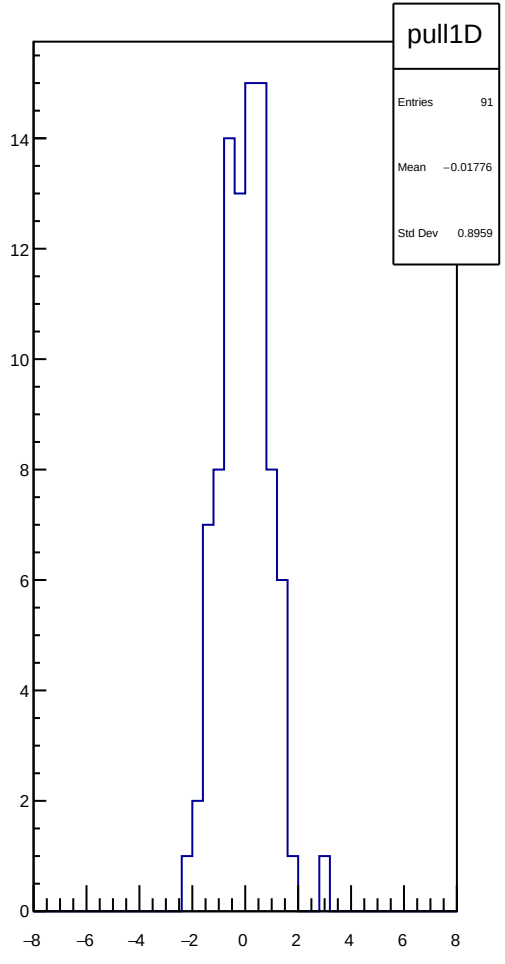

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05124 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0
pull1D
Entries 91
Mean −0.02879
Std Dev 1.025

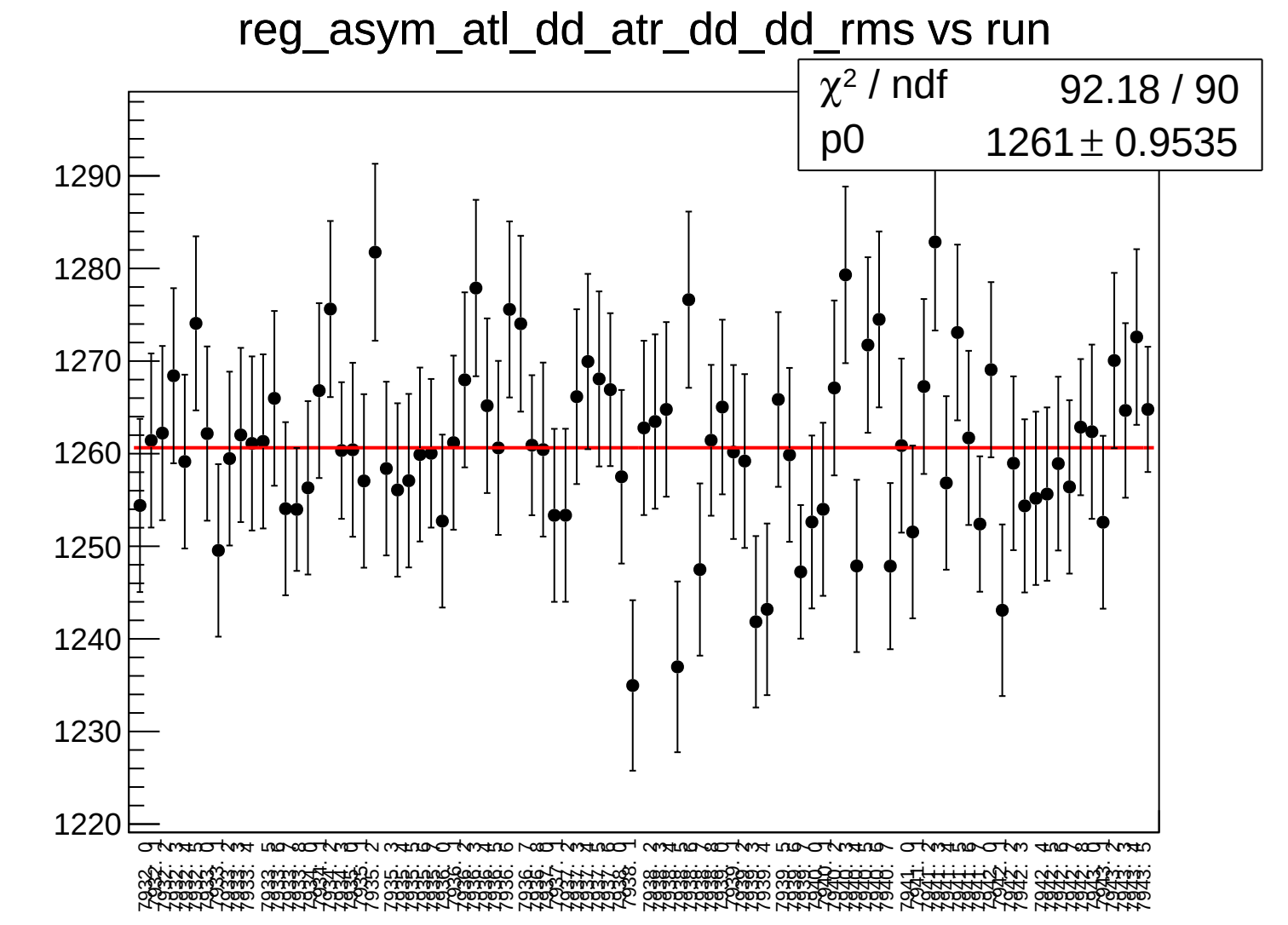

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

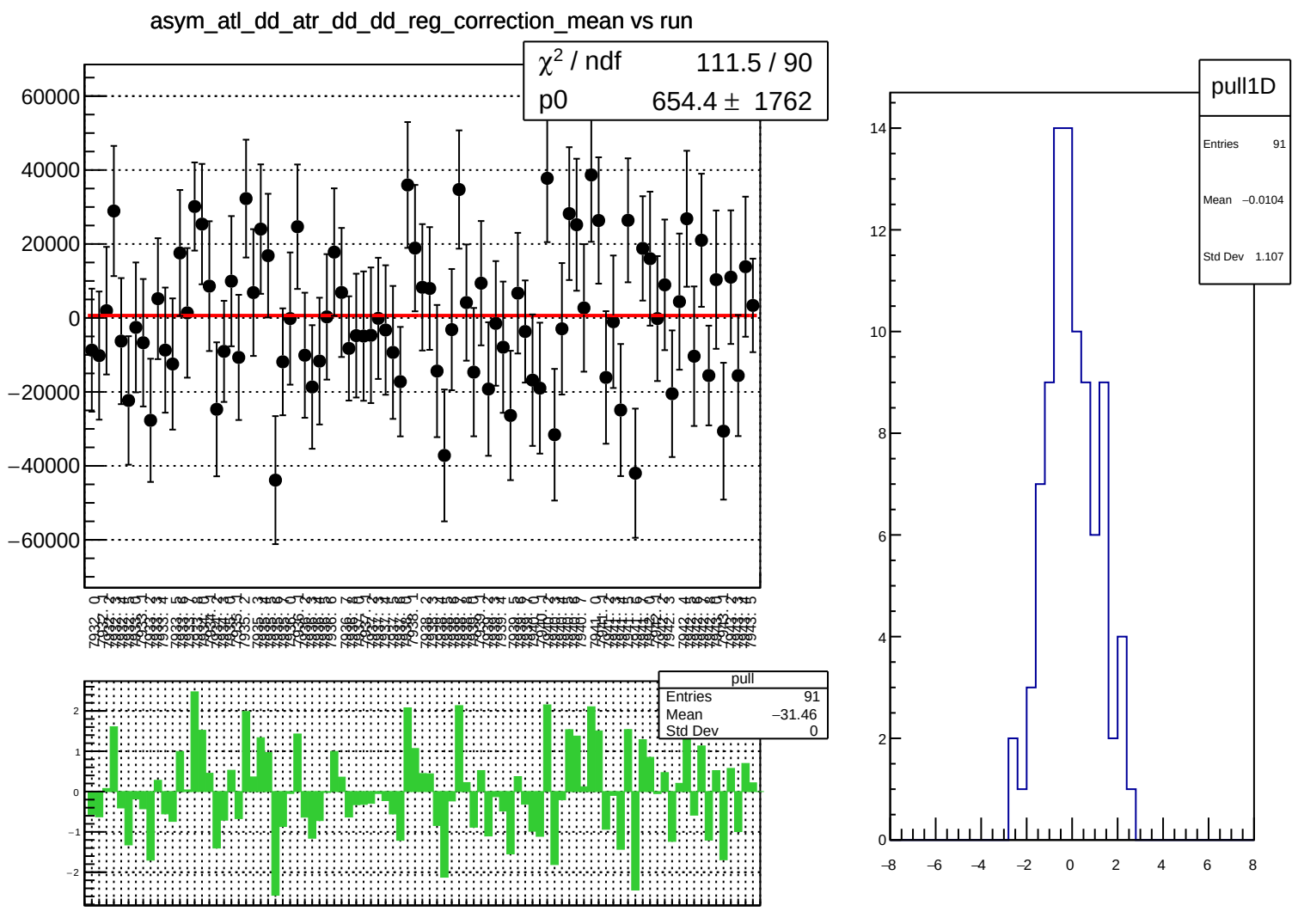

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 90
p0 −2.79e−13 ± 2.094e−13
pull
Entries 91
Mean −66.54
Std Dev 0
pull1D
Entries 91
Mean 0.02306
Std Dev 1.06

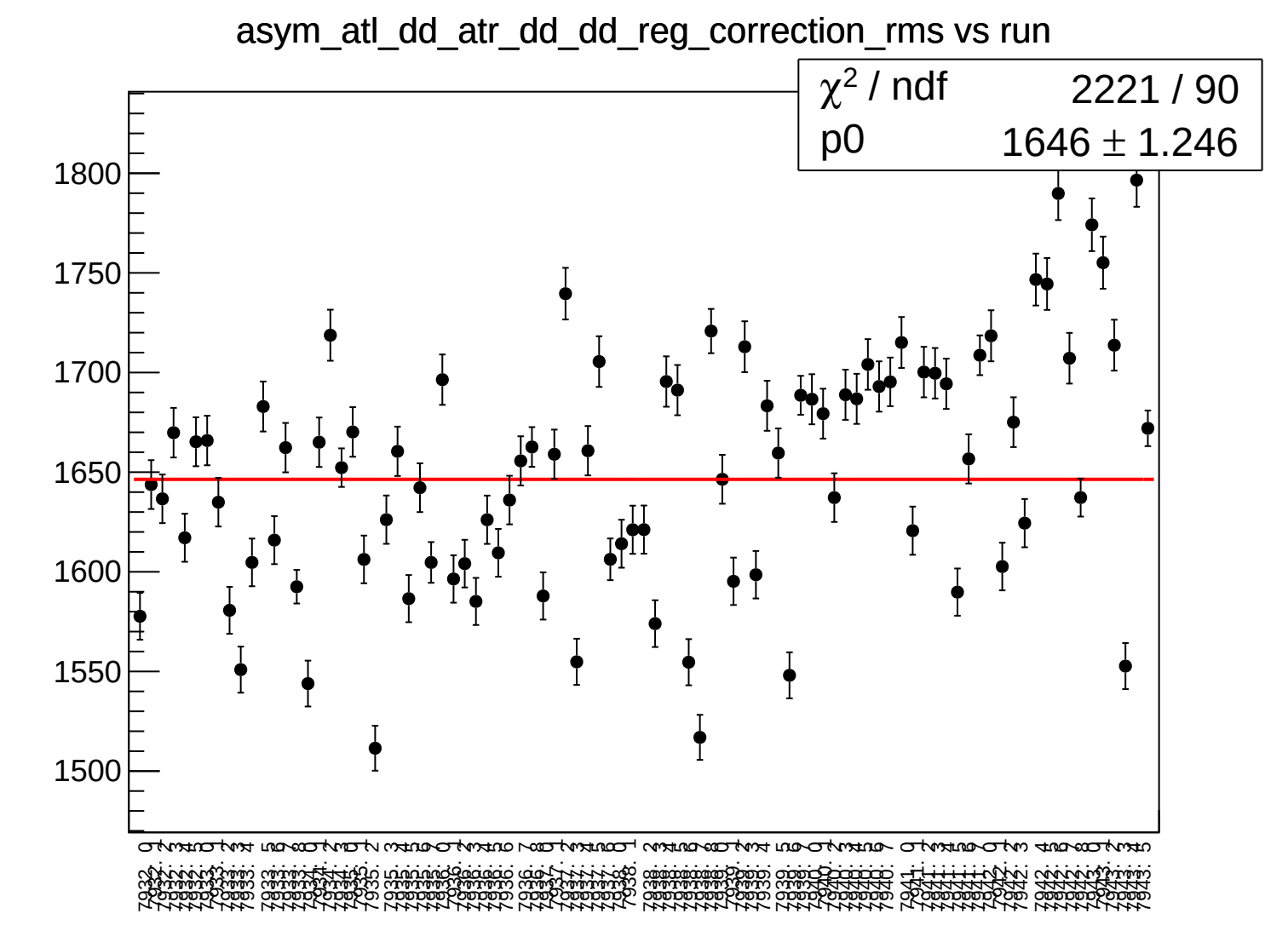

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.138e+05 / 90
p0 1.645e−10 ± 1.481e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

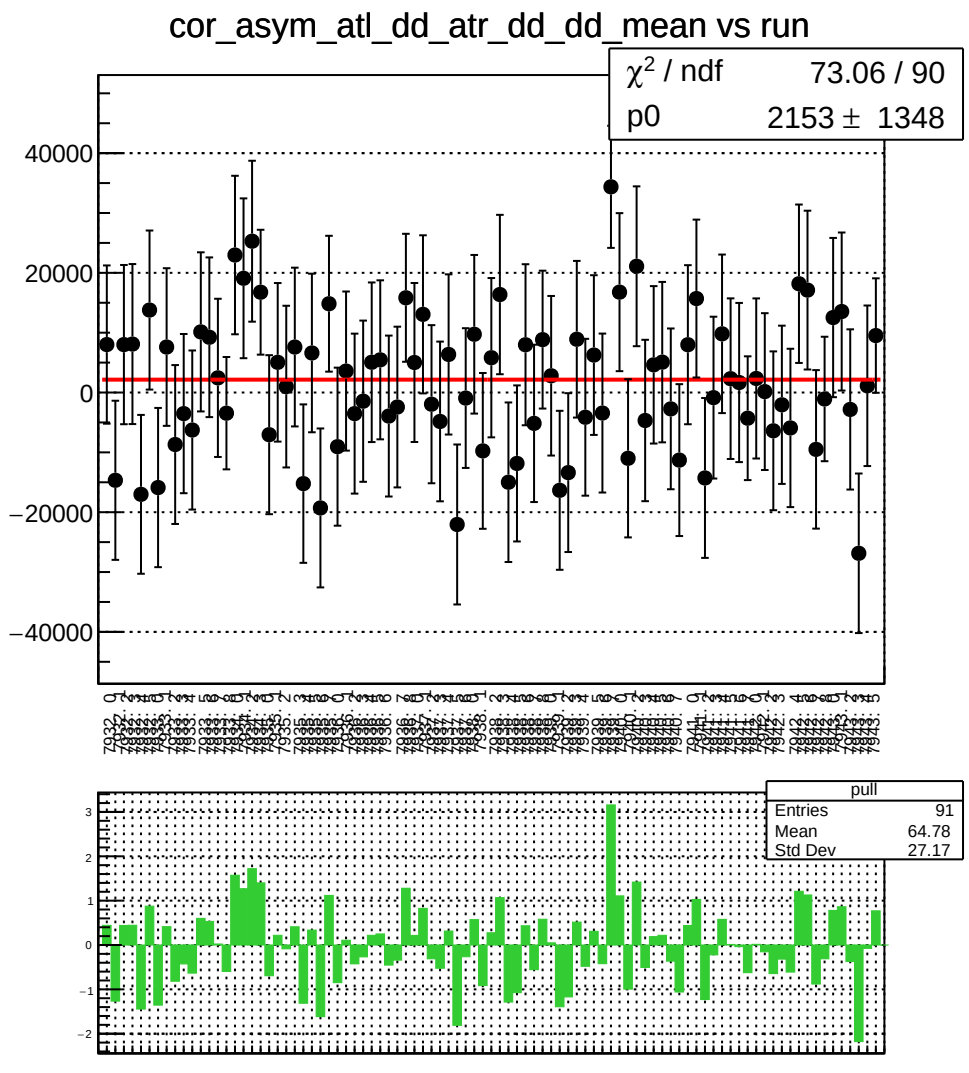

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 73.06 / 90
p0 2153 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 64.77
Std Dev 27.19
3
2
1
0
−1
−2

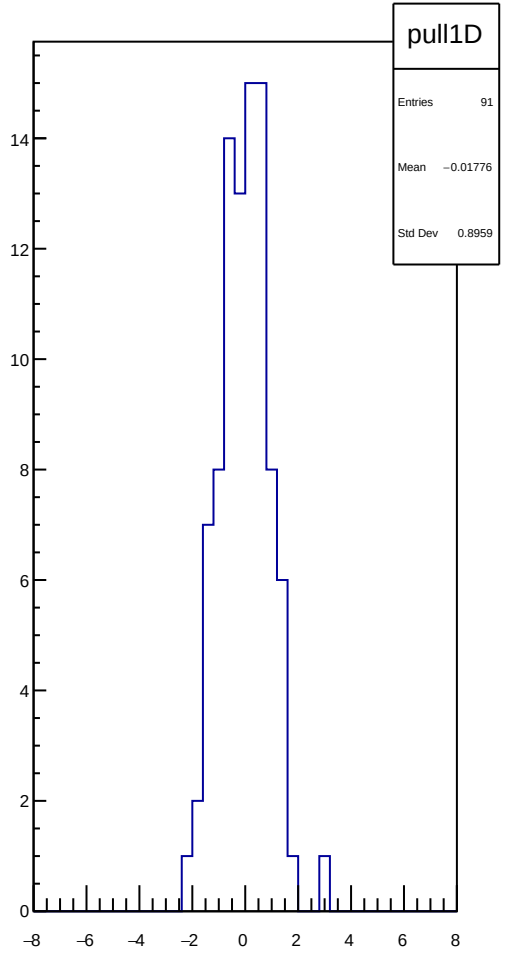

pull1D
Entries 91
Mean −0.01776
Std Dev 0.8959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

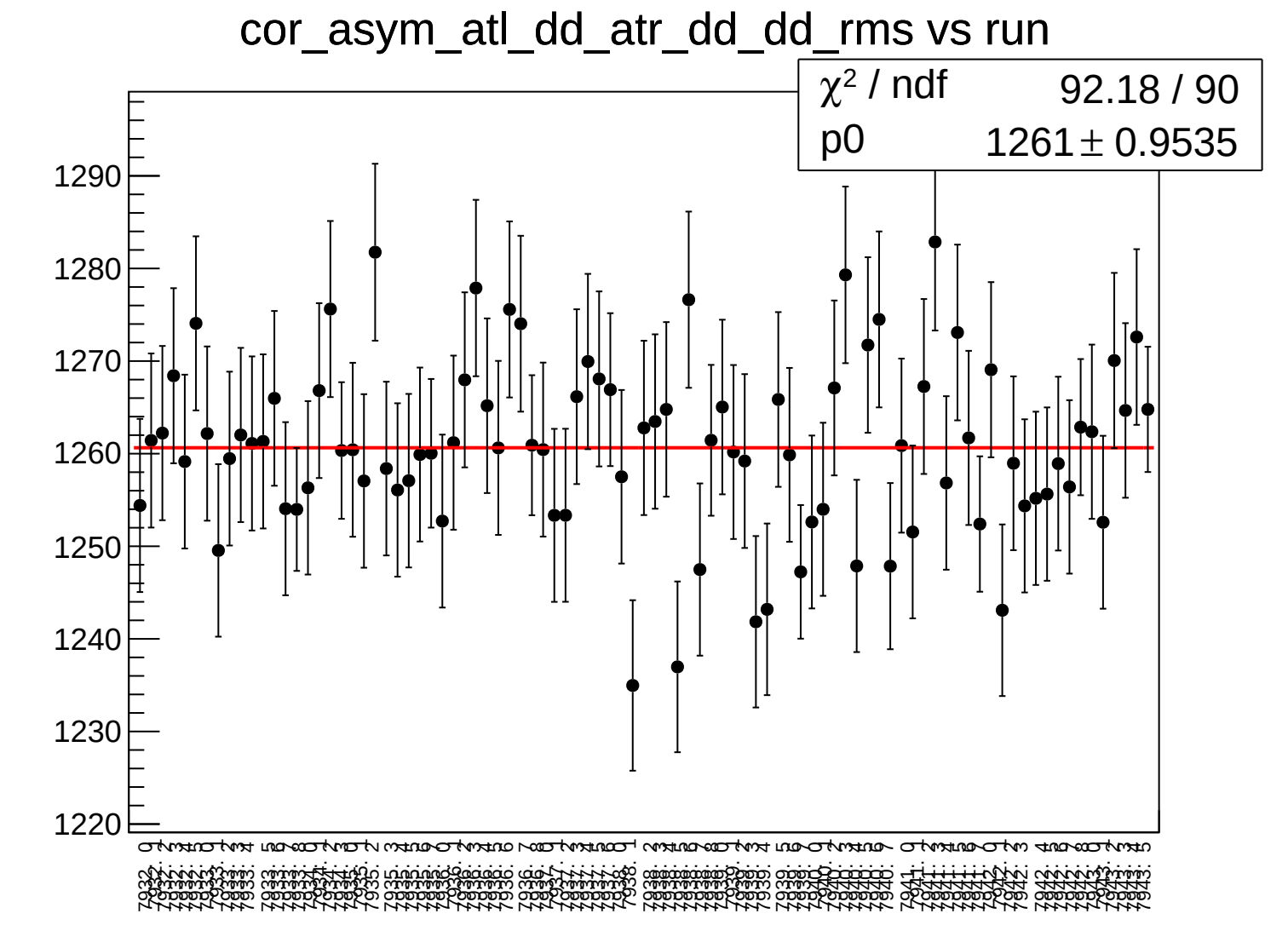

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.18 / 90
p0 1261 ± 0.9535
1290
1280
1270
1260
1250
1240
1230
1220

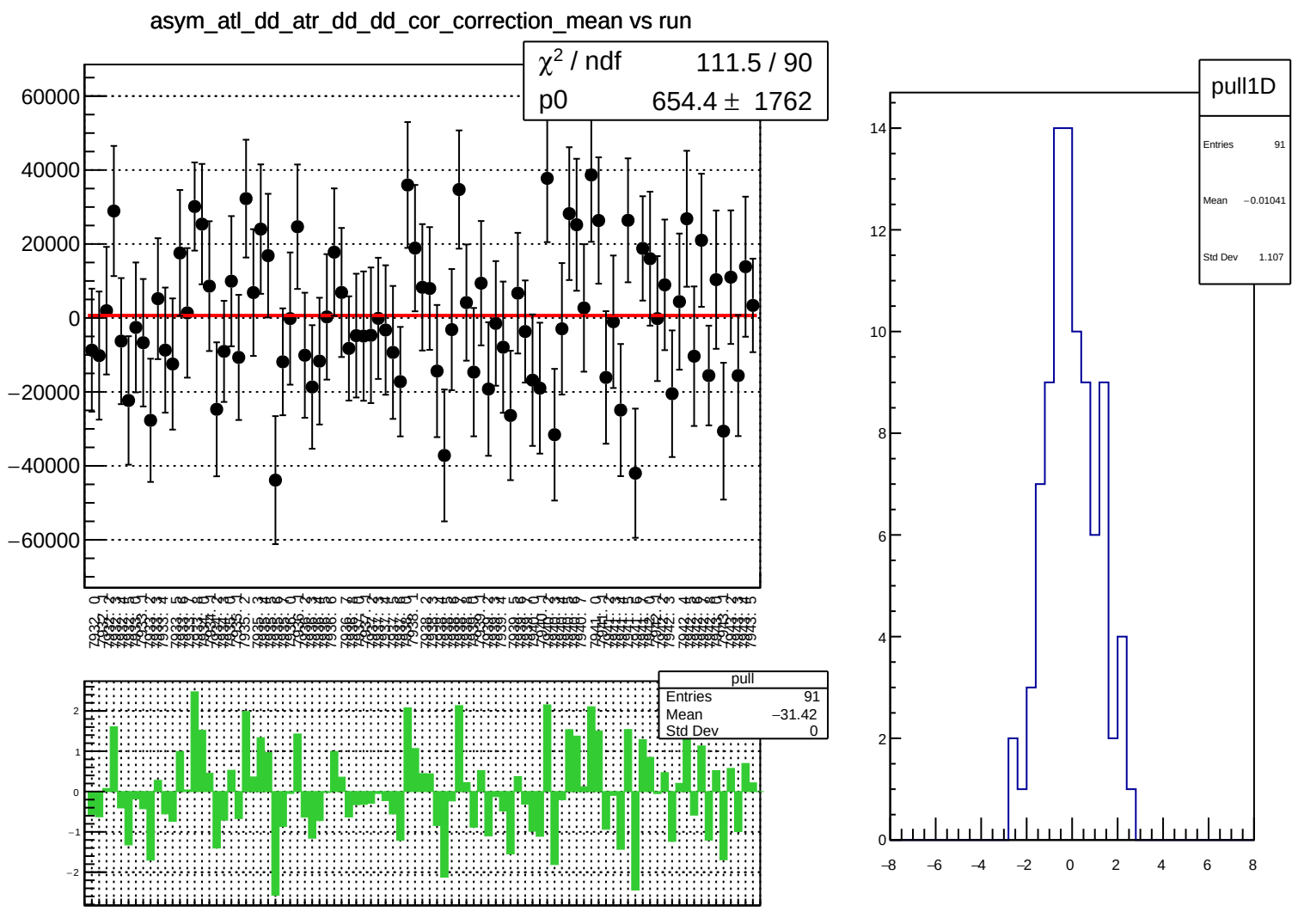

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 111.5 / 90
p0 654.4 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −31.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0104
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

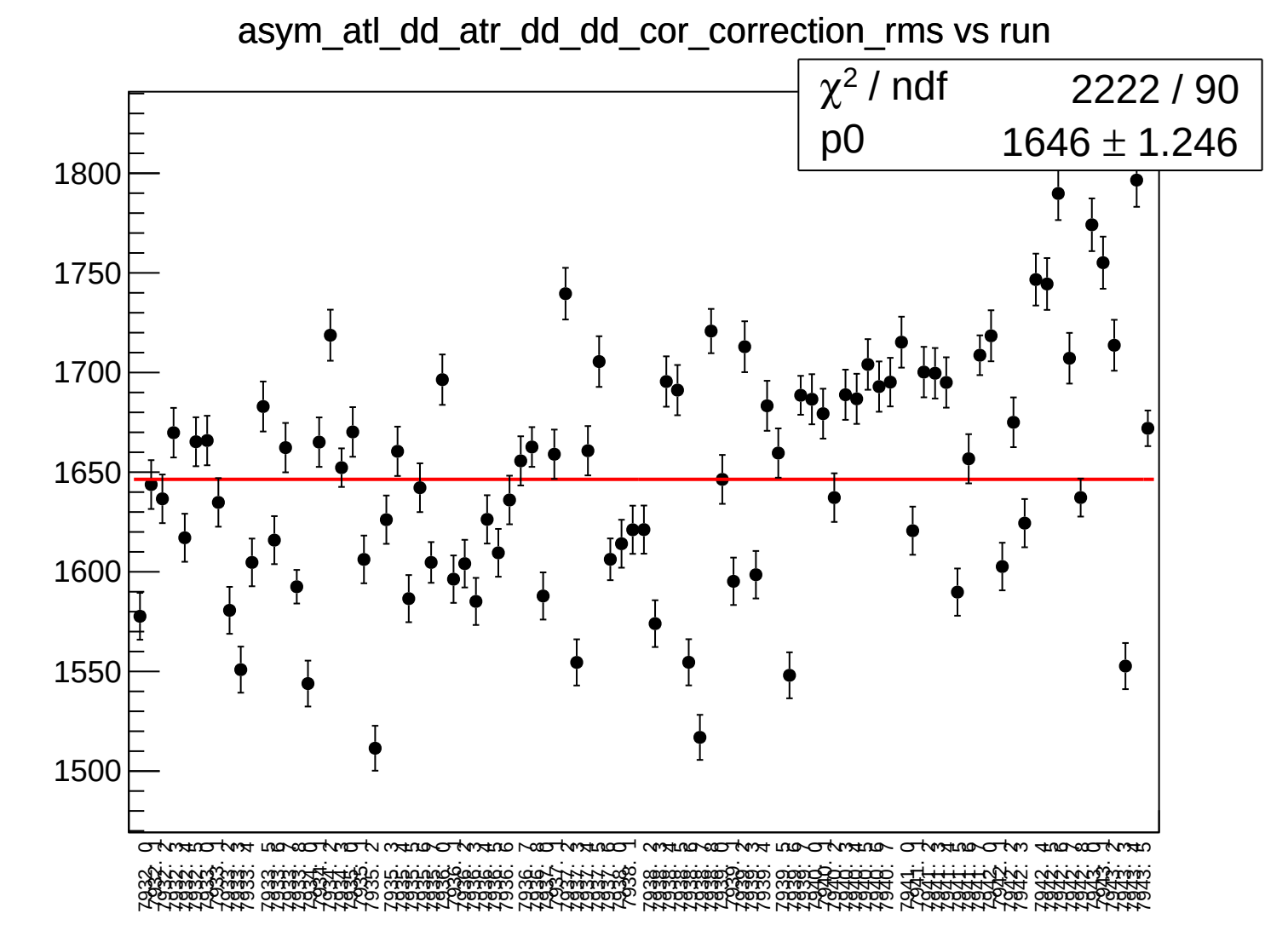

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2221 / 90
p0 1646 ± 1.246
1800
1750
1700
1650
1600
1550
1500

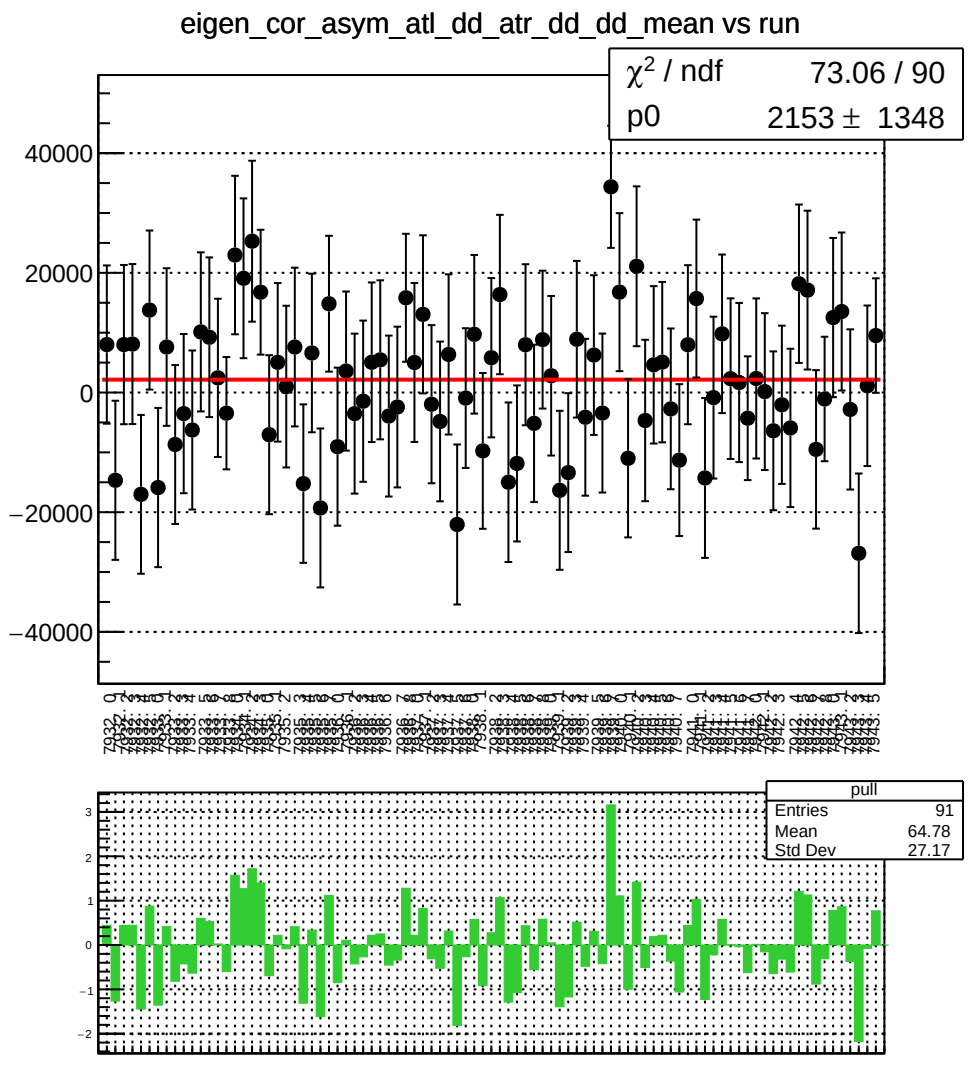

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 73.06 / 90
p0 2153 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 64.78
Std Dev 27.17
3
2
1
0
−1
−2

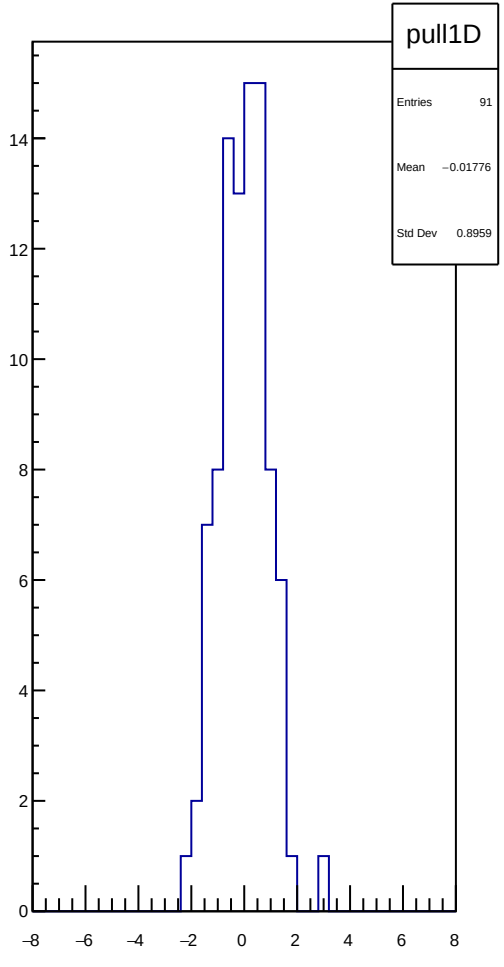

pull1D
Entries 91
Mean −0.01776
Std Dev 0.8959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

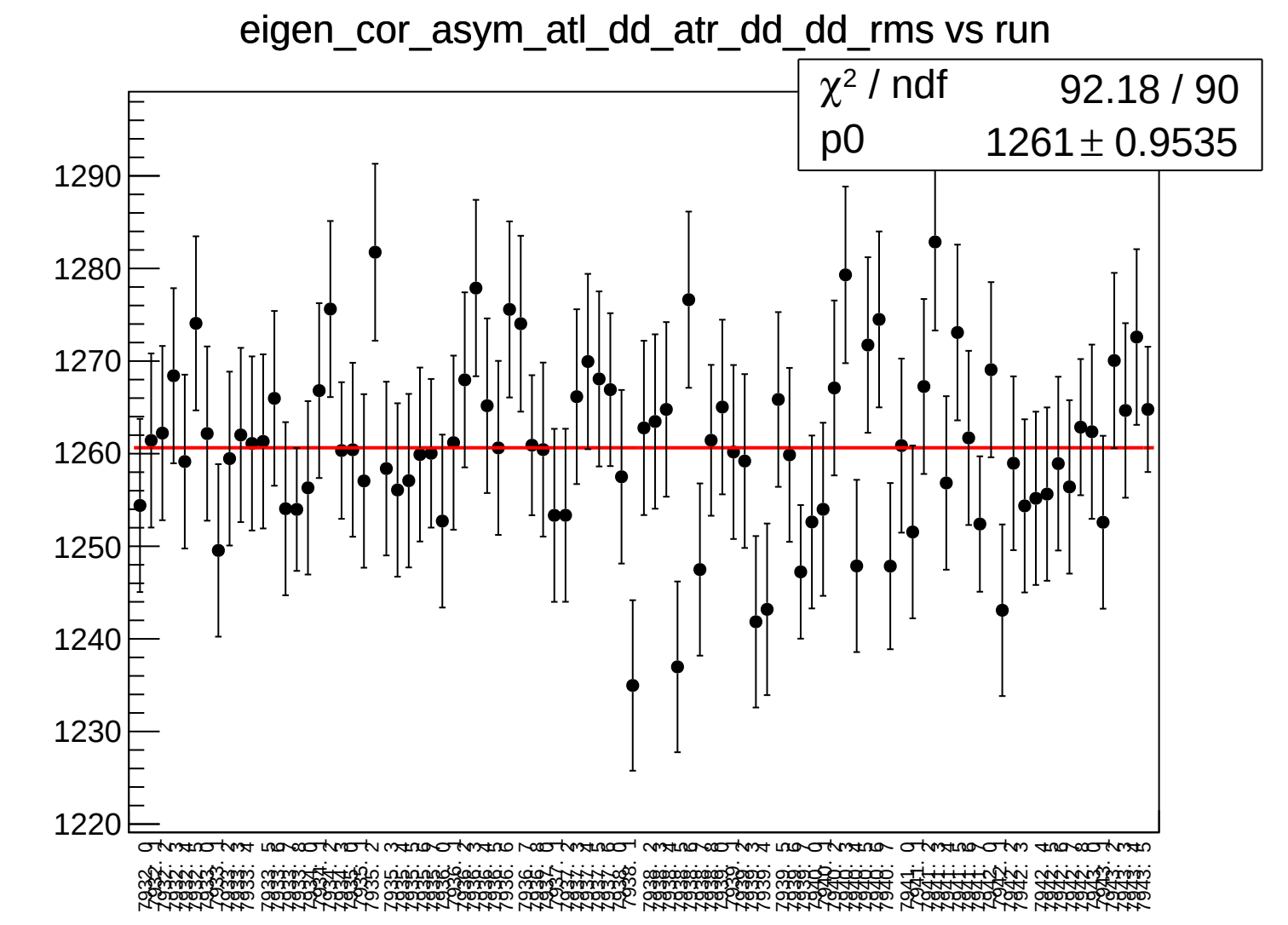

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.18 / 90
p0 1261 ± 0.9535
1290
1280
1270
1260
1250
1240
1230
1220

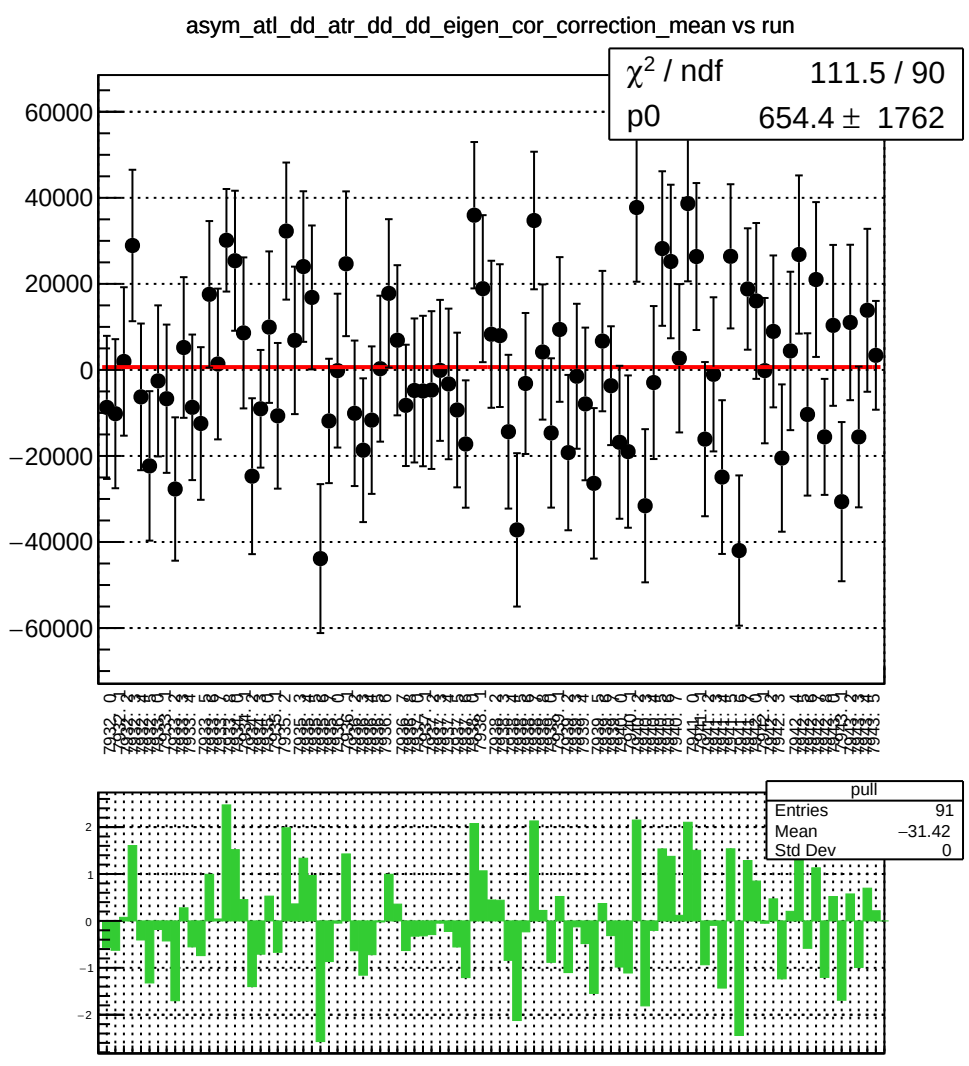

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 111.5 / 90
p0 654.4 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −31.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01041
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

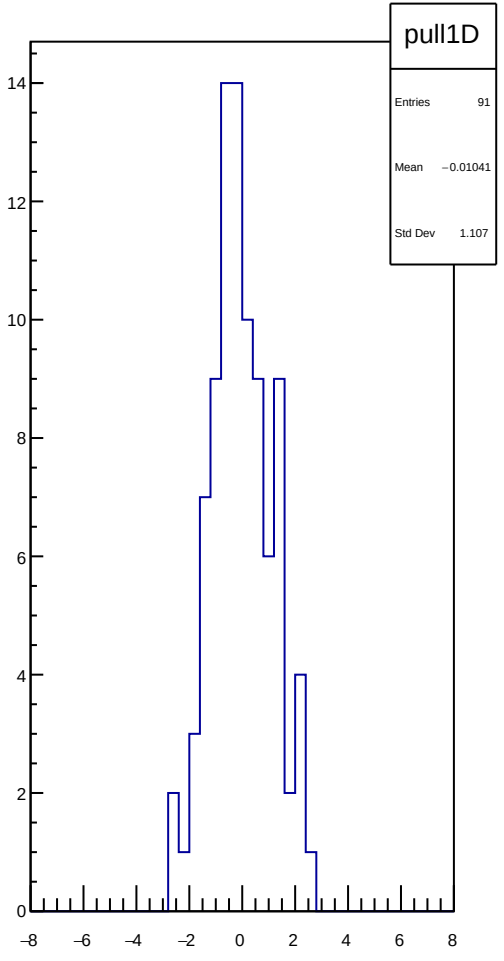

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2222 / 90
p0 1646 ± 1.246
1800
1750
1700
1650
1600
1550
1500

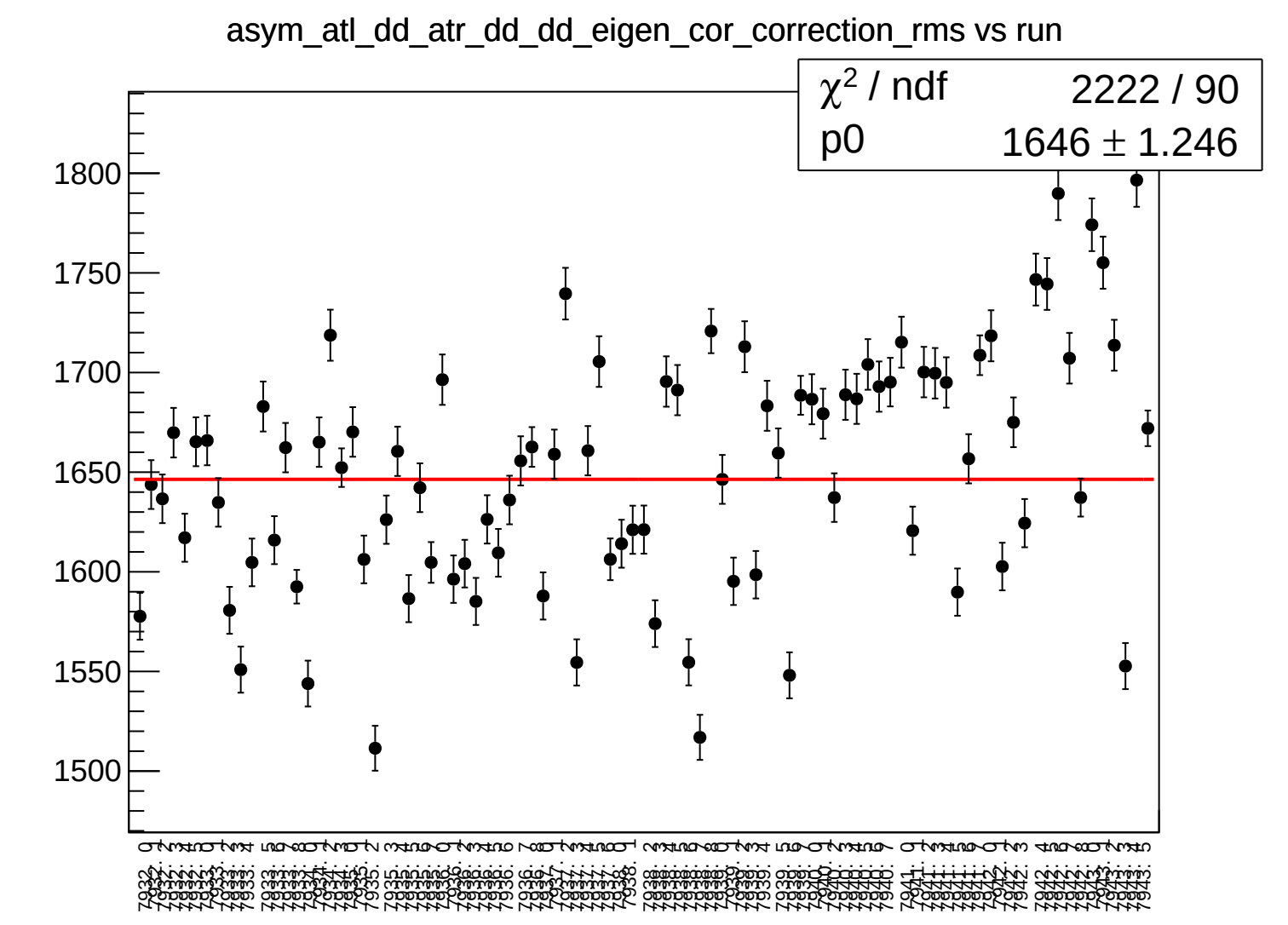

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 73.06 / 90
p0 2153 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 64.78
Std Dev 27.17
3
2
1
0
−1
−2

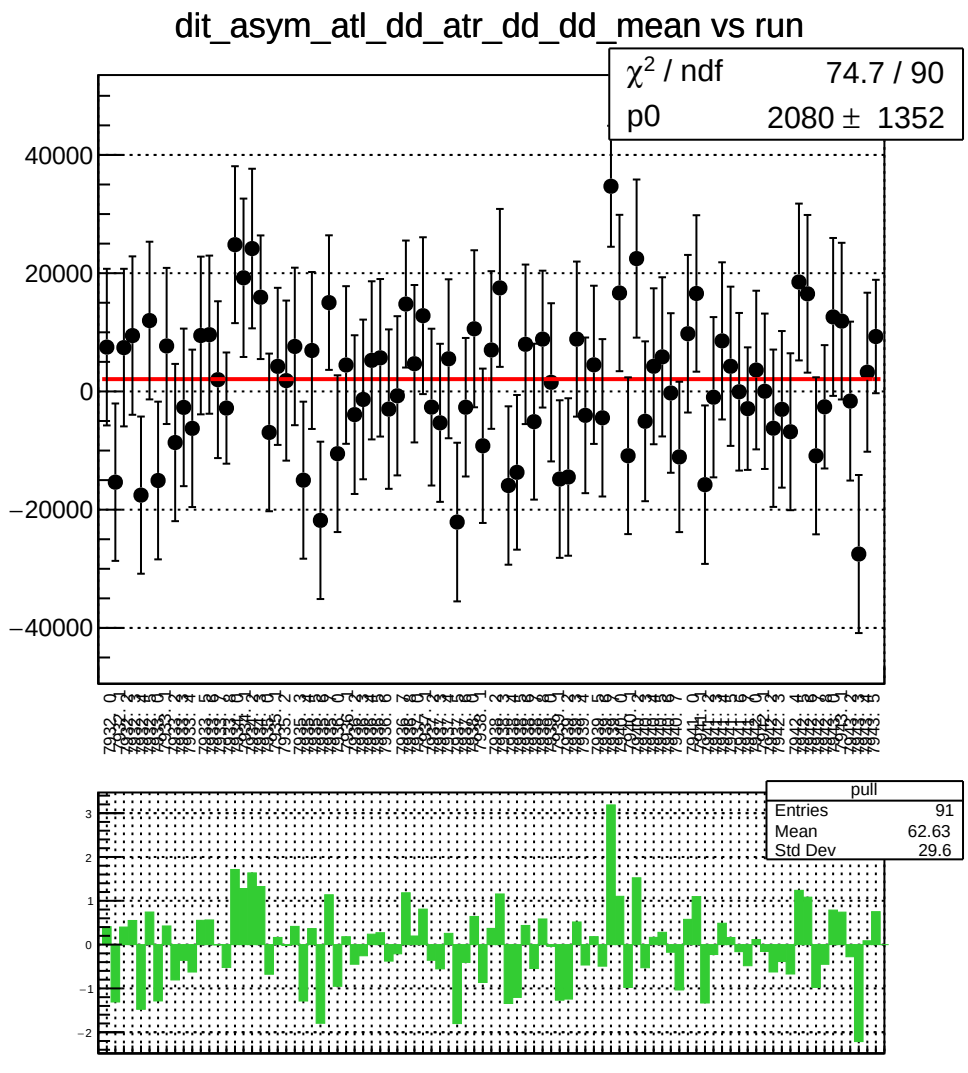

pull1D
Entries 91
Mean −0.01776
Std Dev 0.8959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

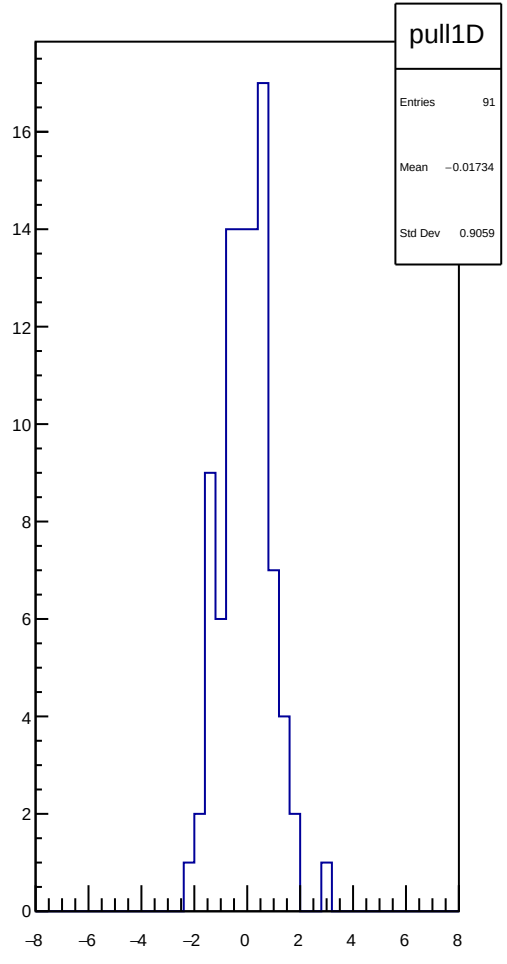

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.18 / 90
p0 1261 ± 0.9535
1290
1280
1270
1260
1250
1240
1230
1220

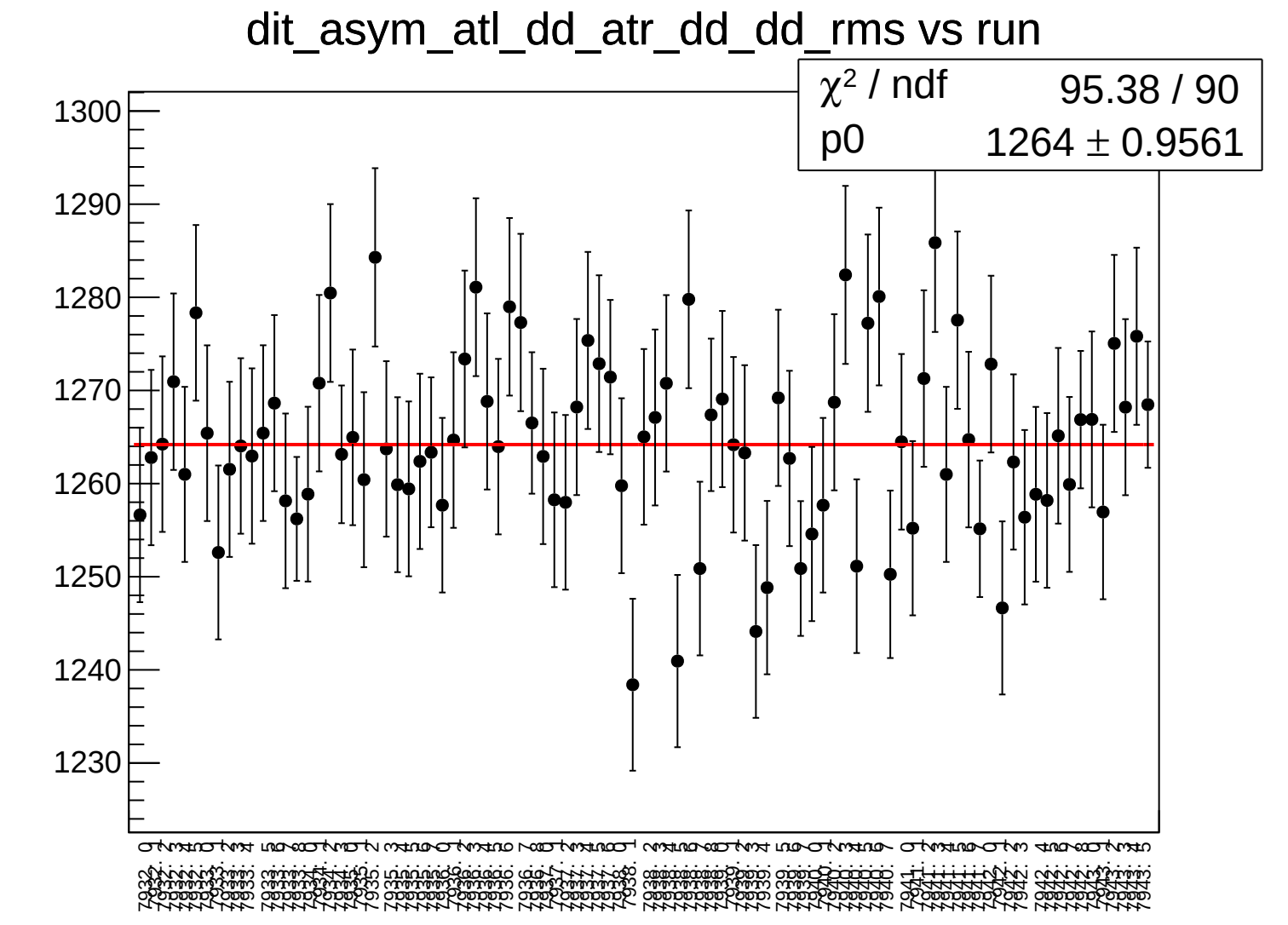

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.5 / 90
p0 654.4 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −31.42
Std Dev 0
2
1
0
−1
−2

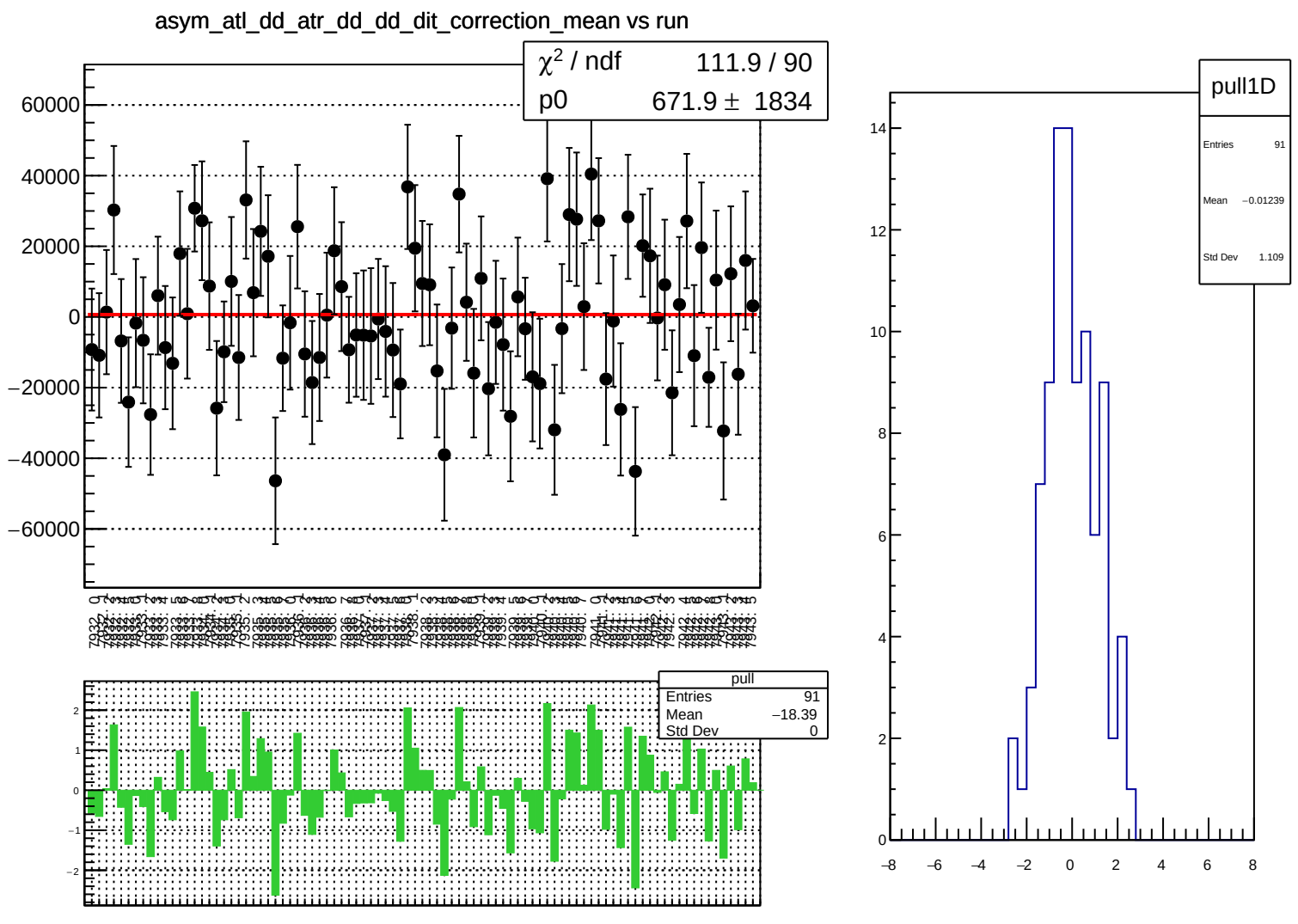

pull1D
Entries 91
Mean −0.01041
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

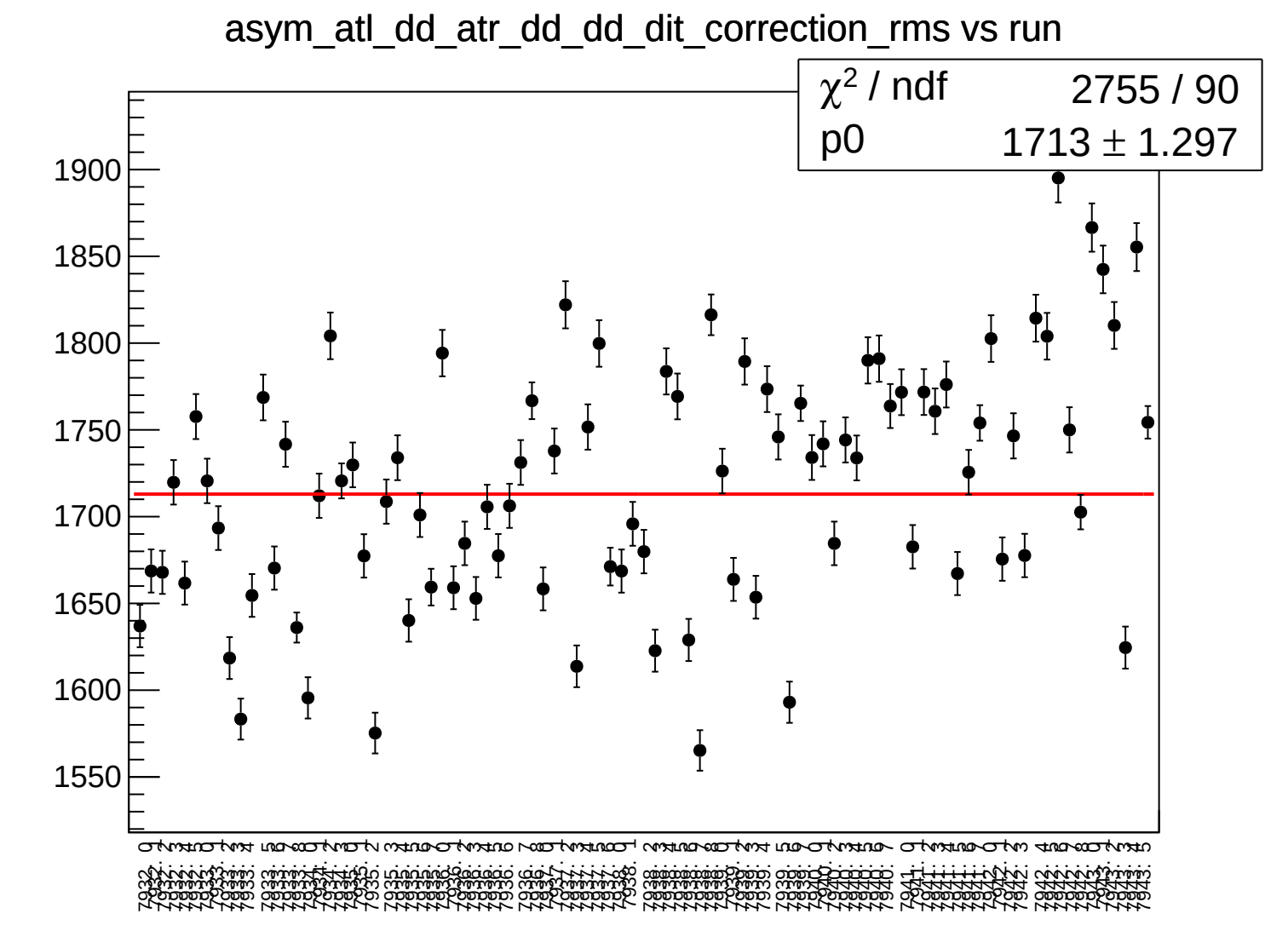

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2222 / 90
p0 1646 ± 1.246
1800
1750
1700
1650
1600
1550
1500

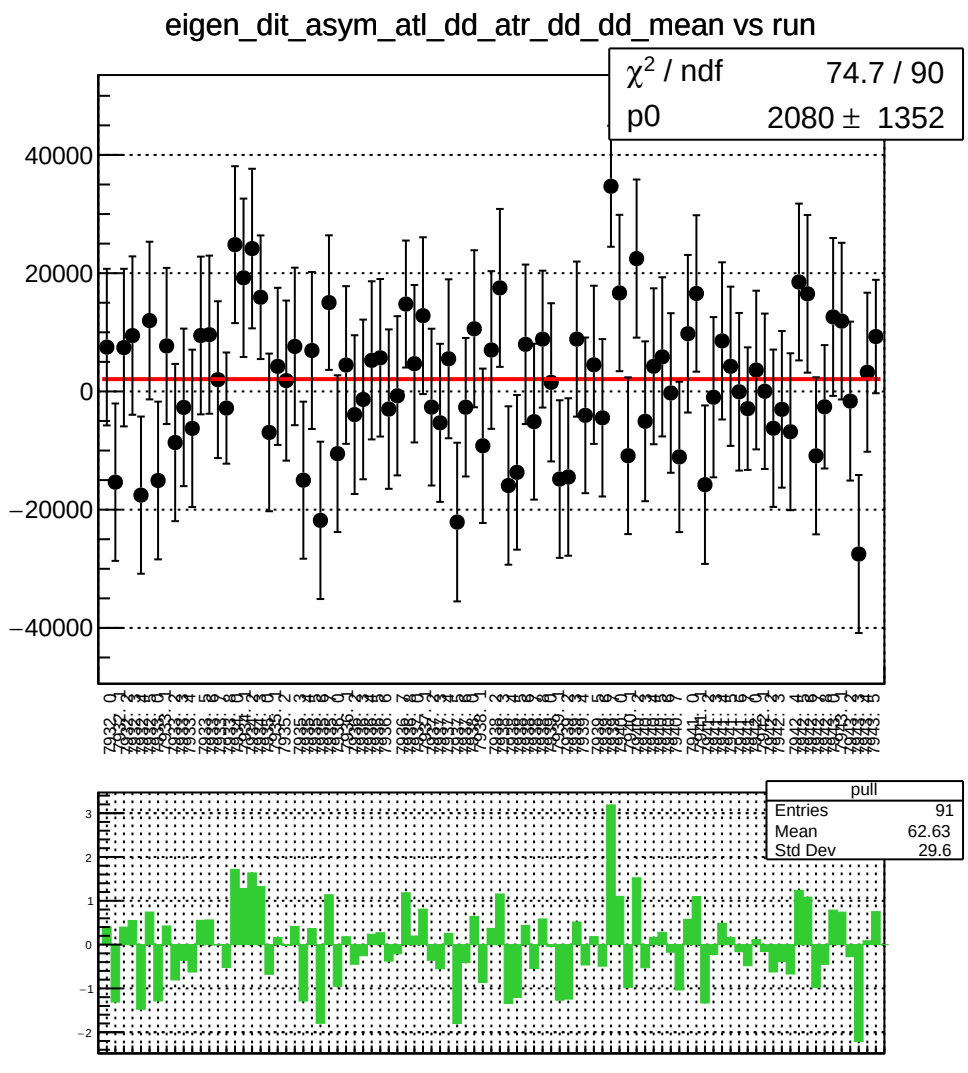

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.7 / 90
p0 2080 ± 1352
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 62.63
Std Dev 29.6
3
2
1
0
−1
−2

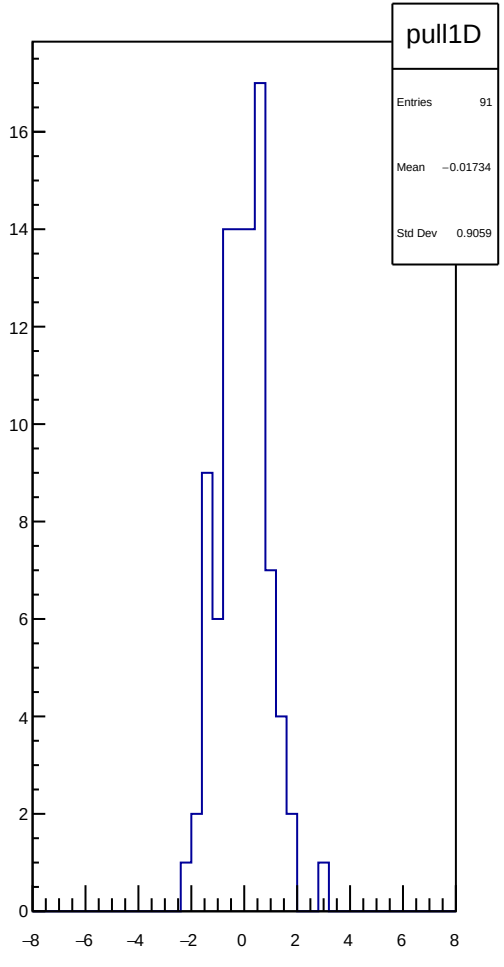

pull1D
Entries 91
Mean −0.01734
Std Dev 0.9059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

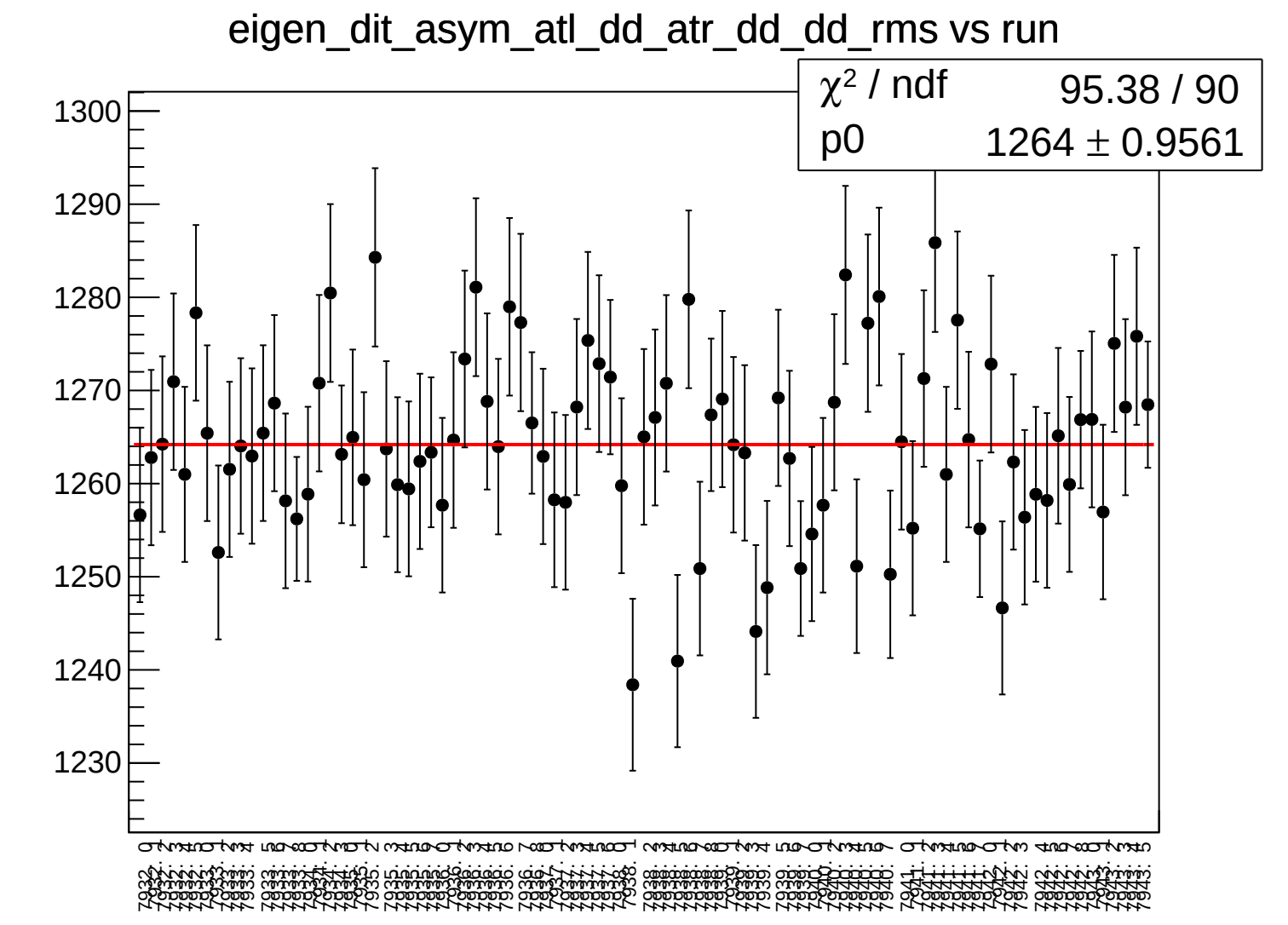

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.38 / 90
p0 1264 ± 0.9561
1300
1290
1280
1270
1260
1250
1240
1230

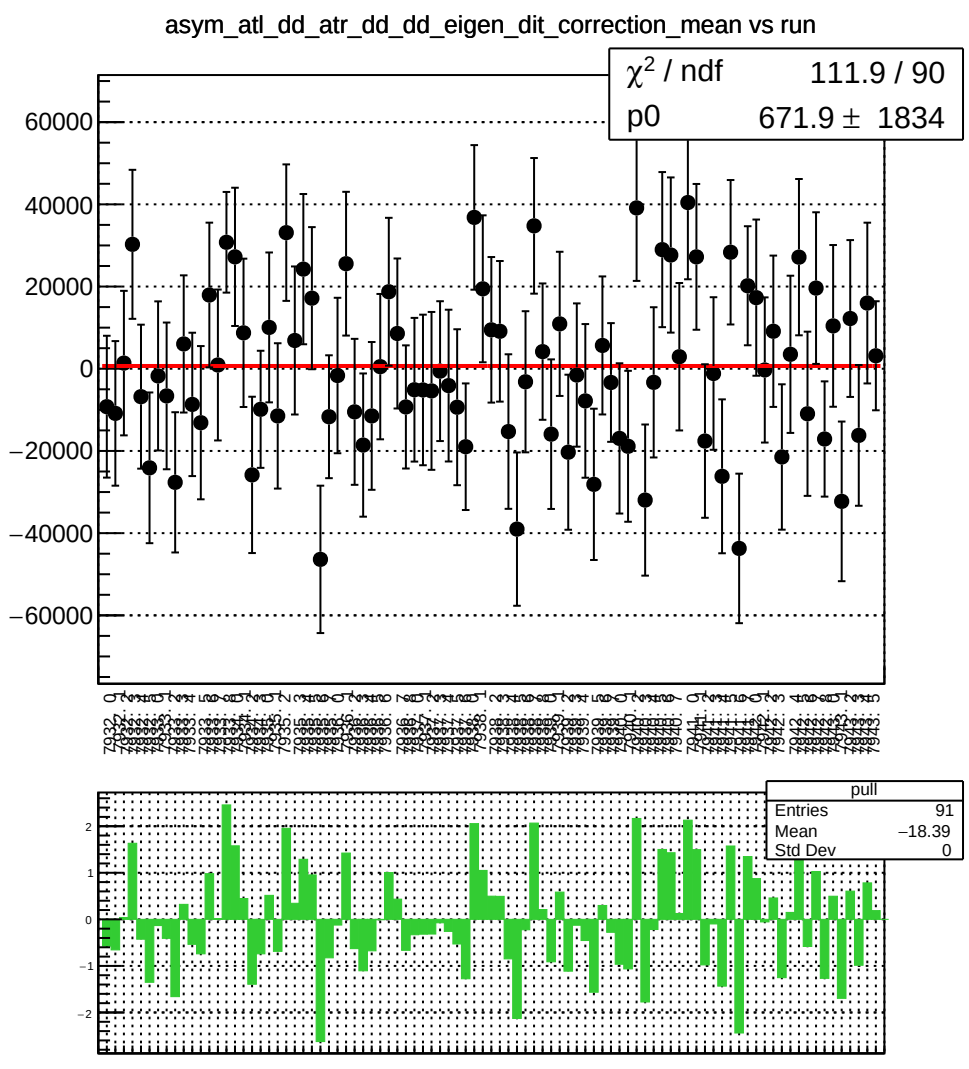

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 111.9 / 90
p0 671.9 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −18.39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01239
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

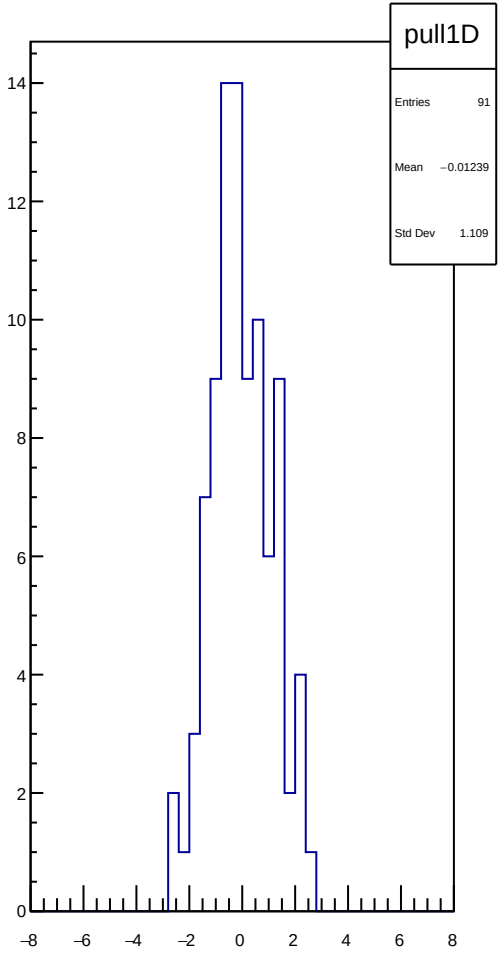

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2755 / 90
p0 1713 ± 1.297
1900
1850
1800
1750
1700
1650
1600
1550

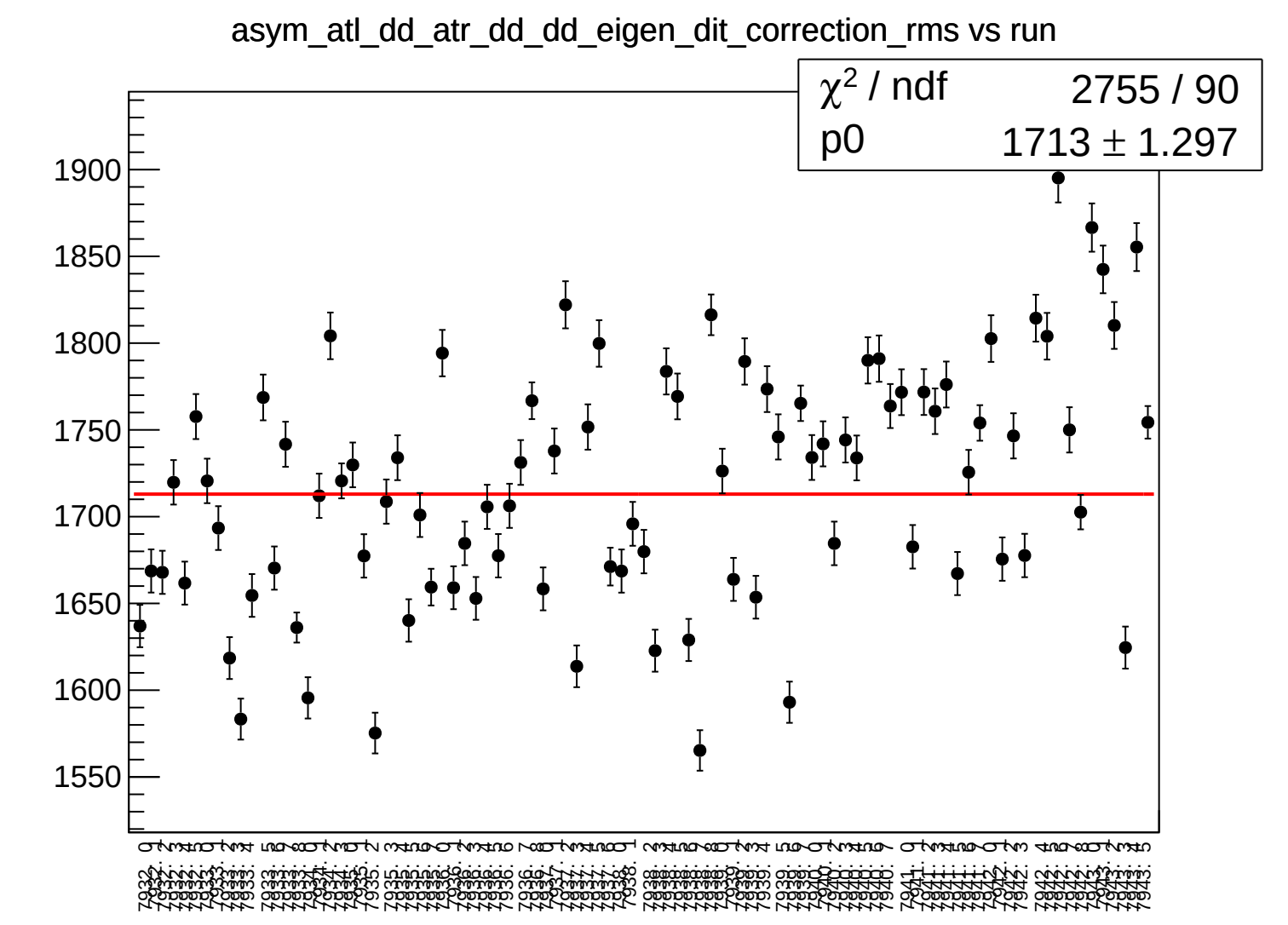

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.7 / 90
p0 2080 ± 1352
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 62.63
Std Dev 29.6
3
2
1
0
−1
−2

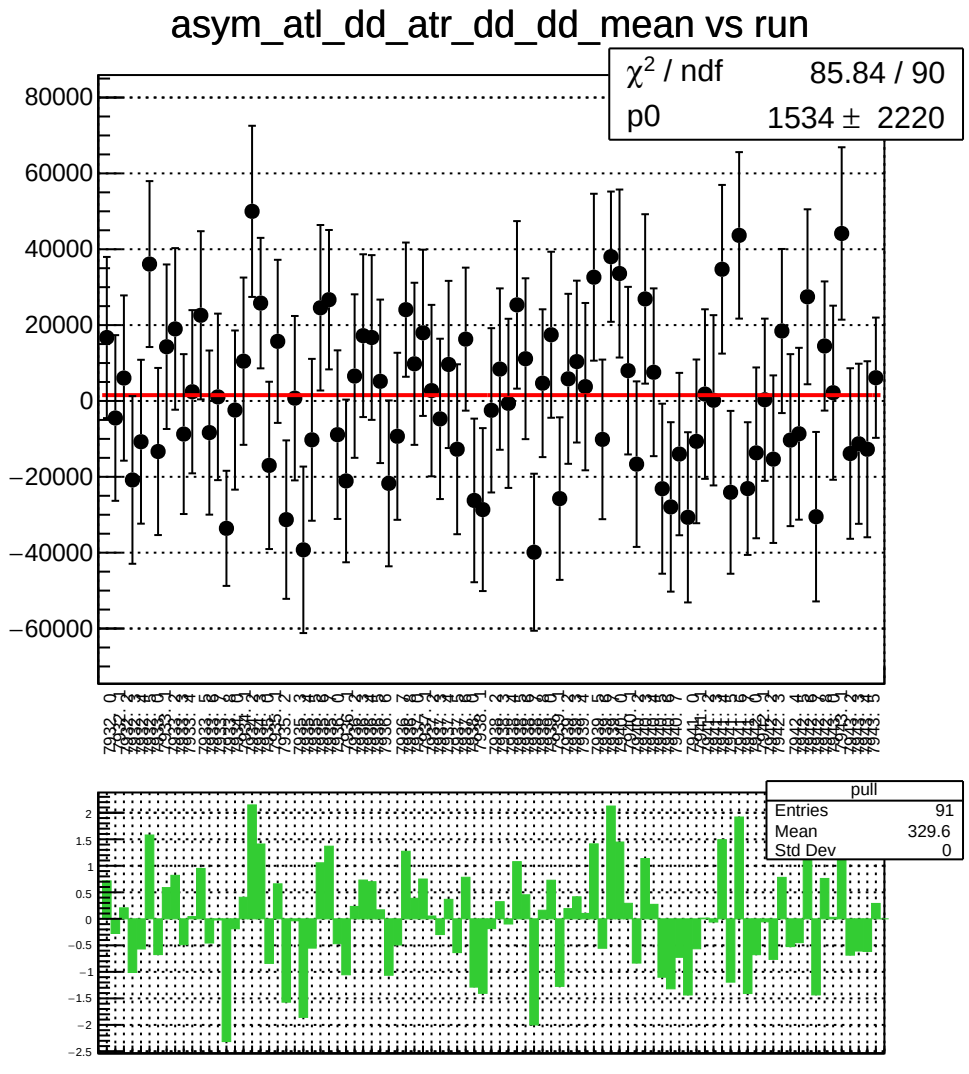

pull1D
Entries 91
Mean −0.01734
Std Dev 0.9059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

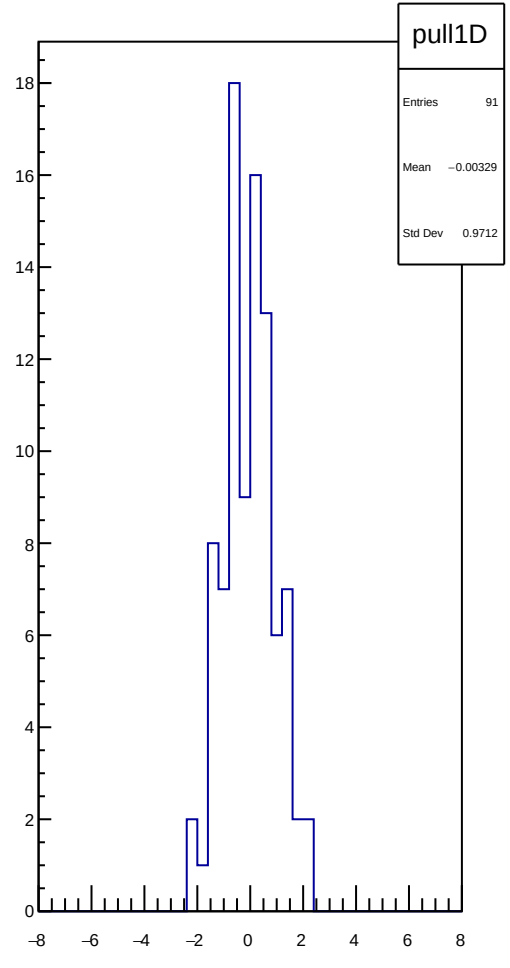

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.38 / 90
p0 1264 ± 0.9561
1300
1290
1280
1270
1260
1250
1240
1230

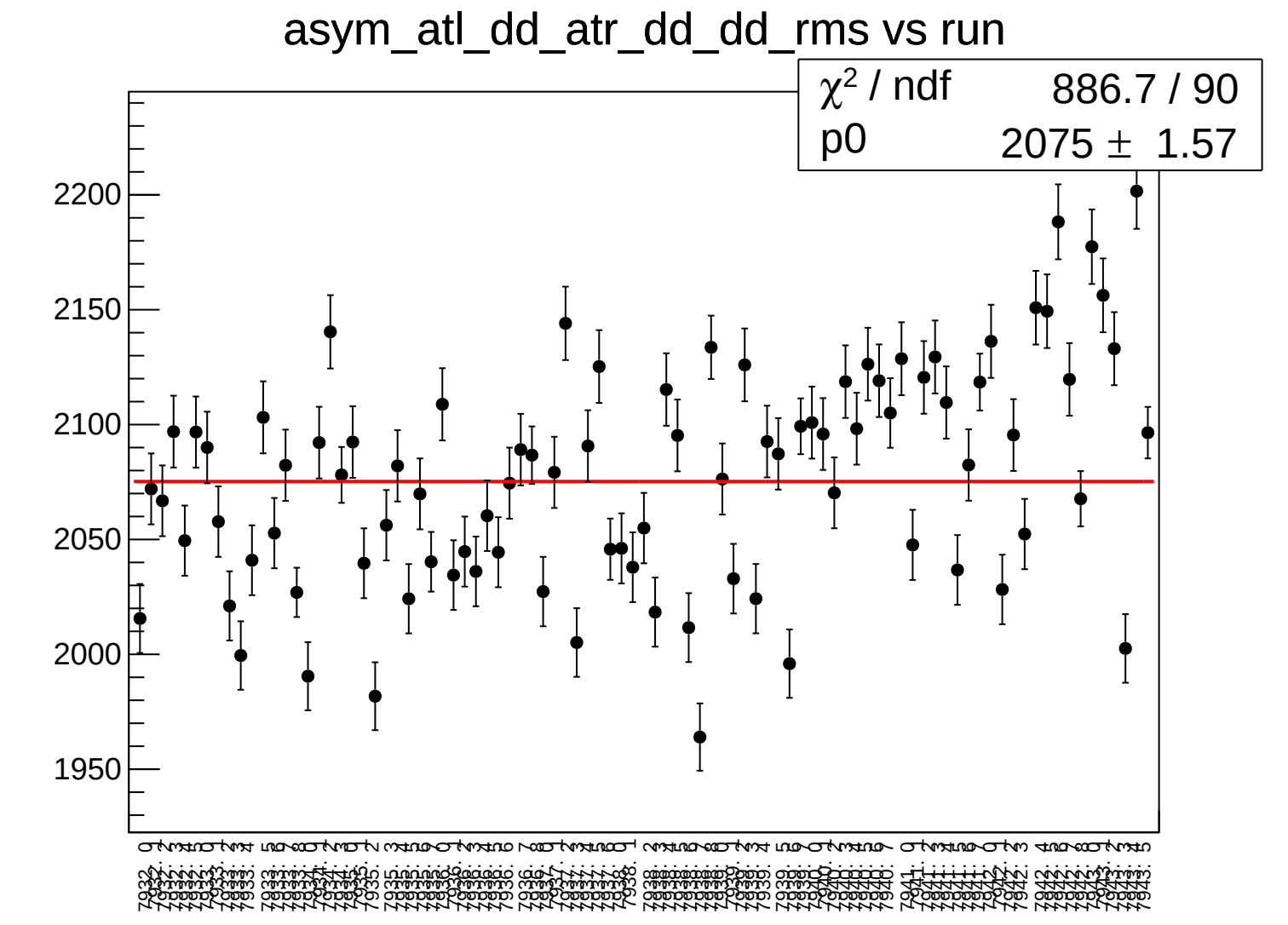

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.9 / 90
p0 671.9 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −18.39
Std Dev 0
2
1
0
−1
−2

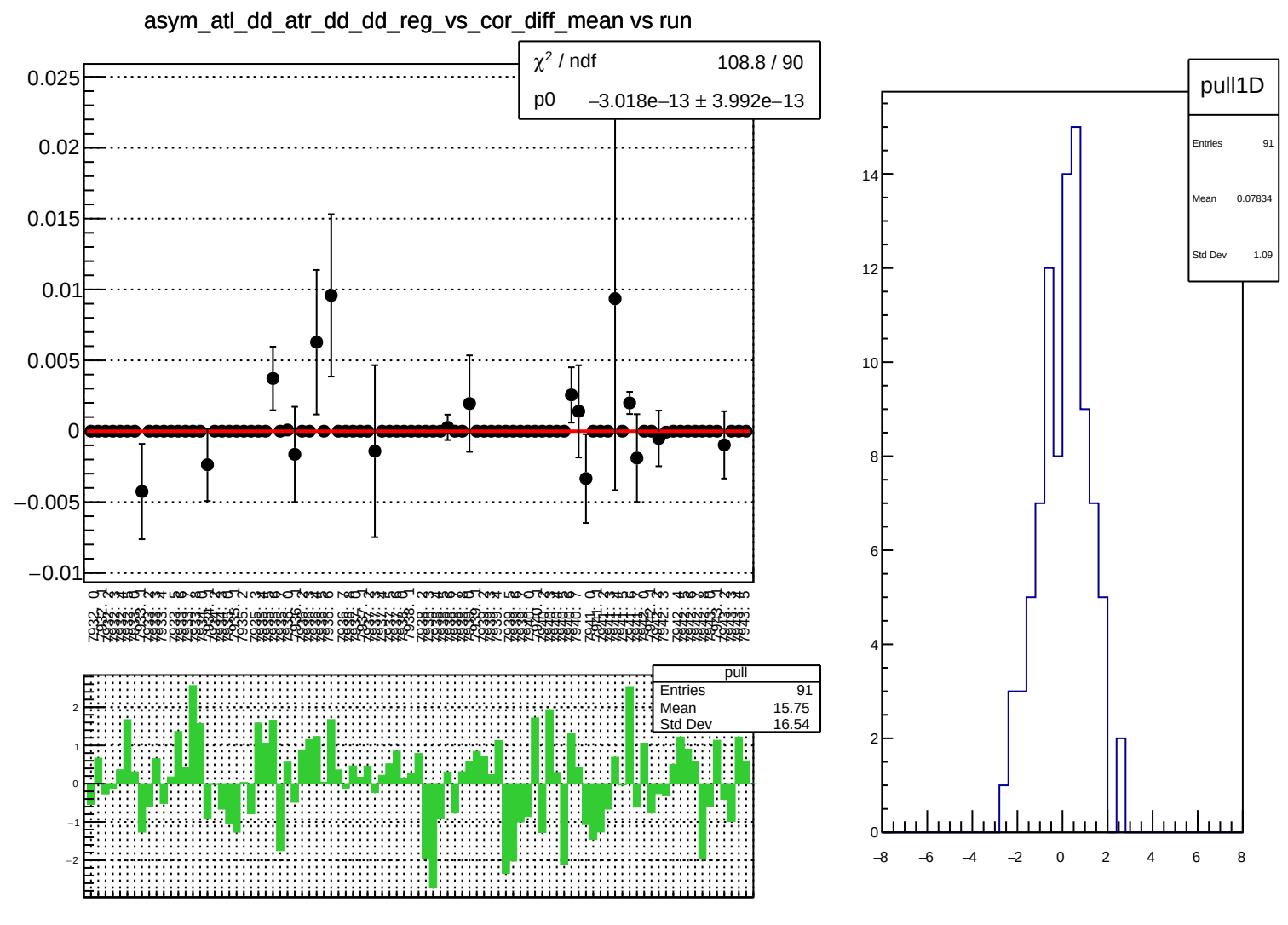

pull1D
Entries 91
Mean −0.01239
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

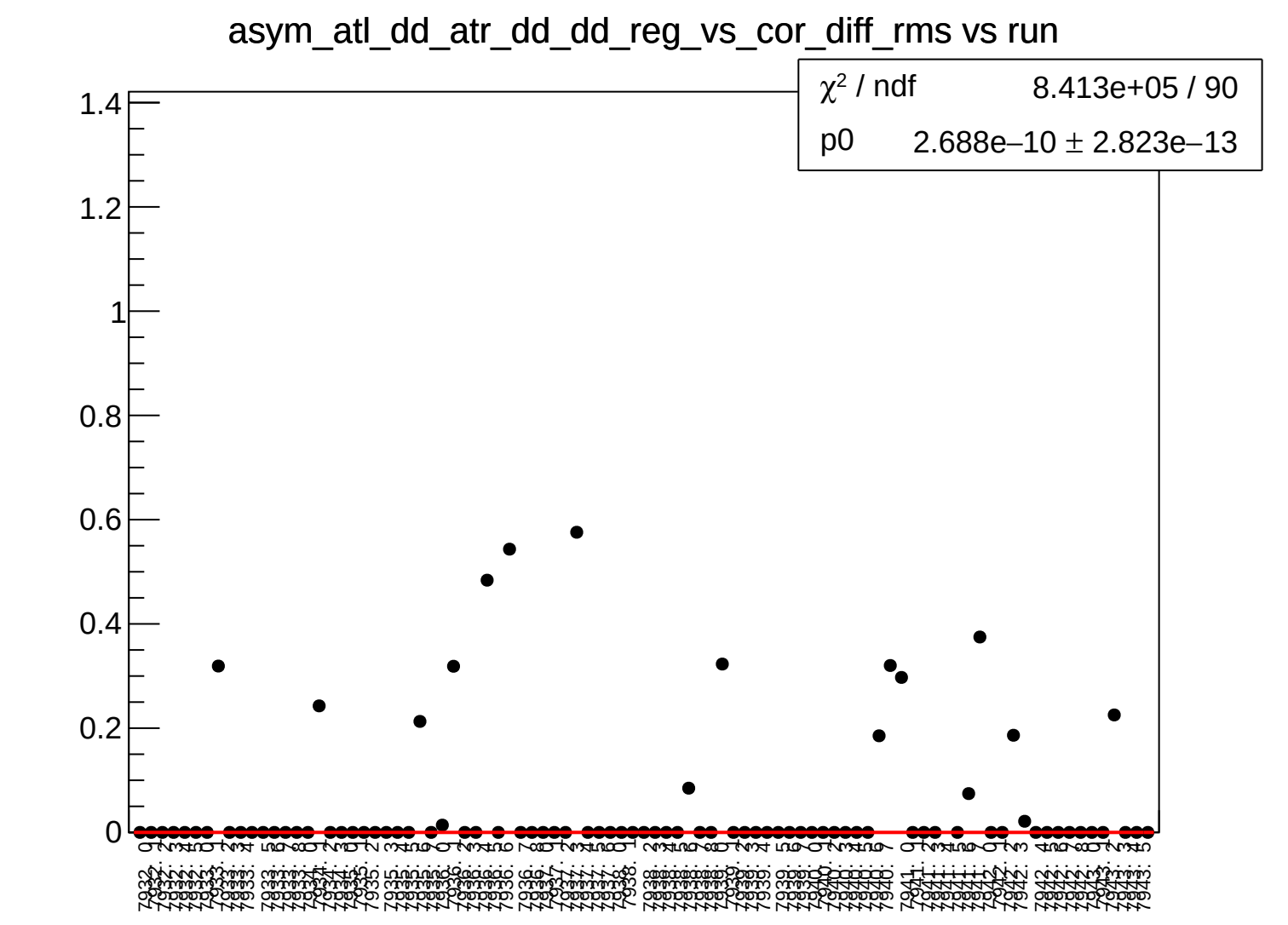

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2755 / 90
p0 1713 ± 1.297
1900
1850
1800
1750
1700
1650
1600
1550

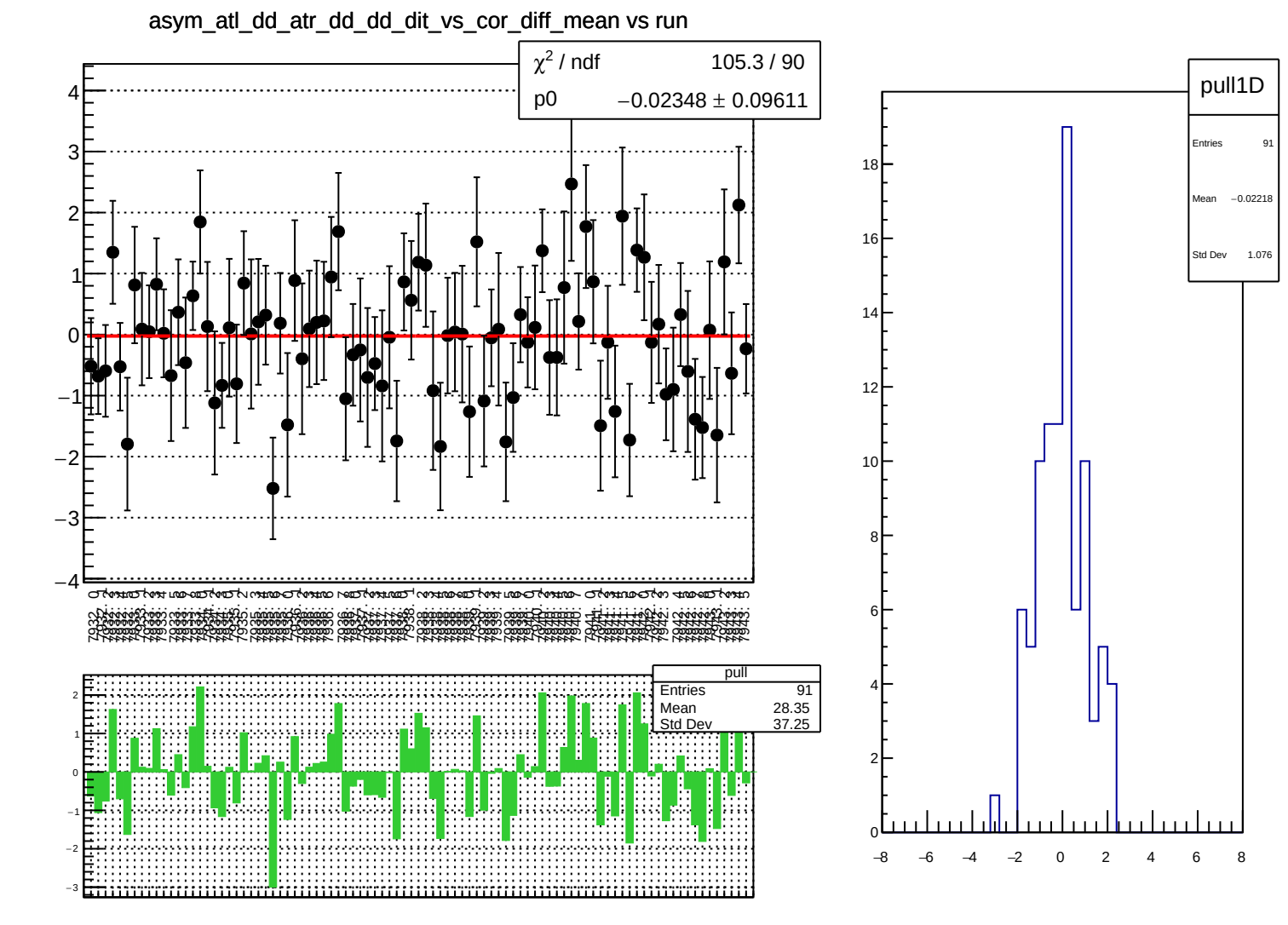

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.84 / 90
p0 1534 ± 2220
pull
Entries 91
Mean 329.6
Std Dev 0

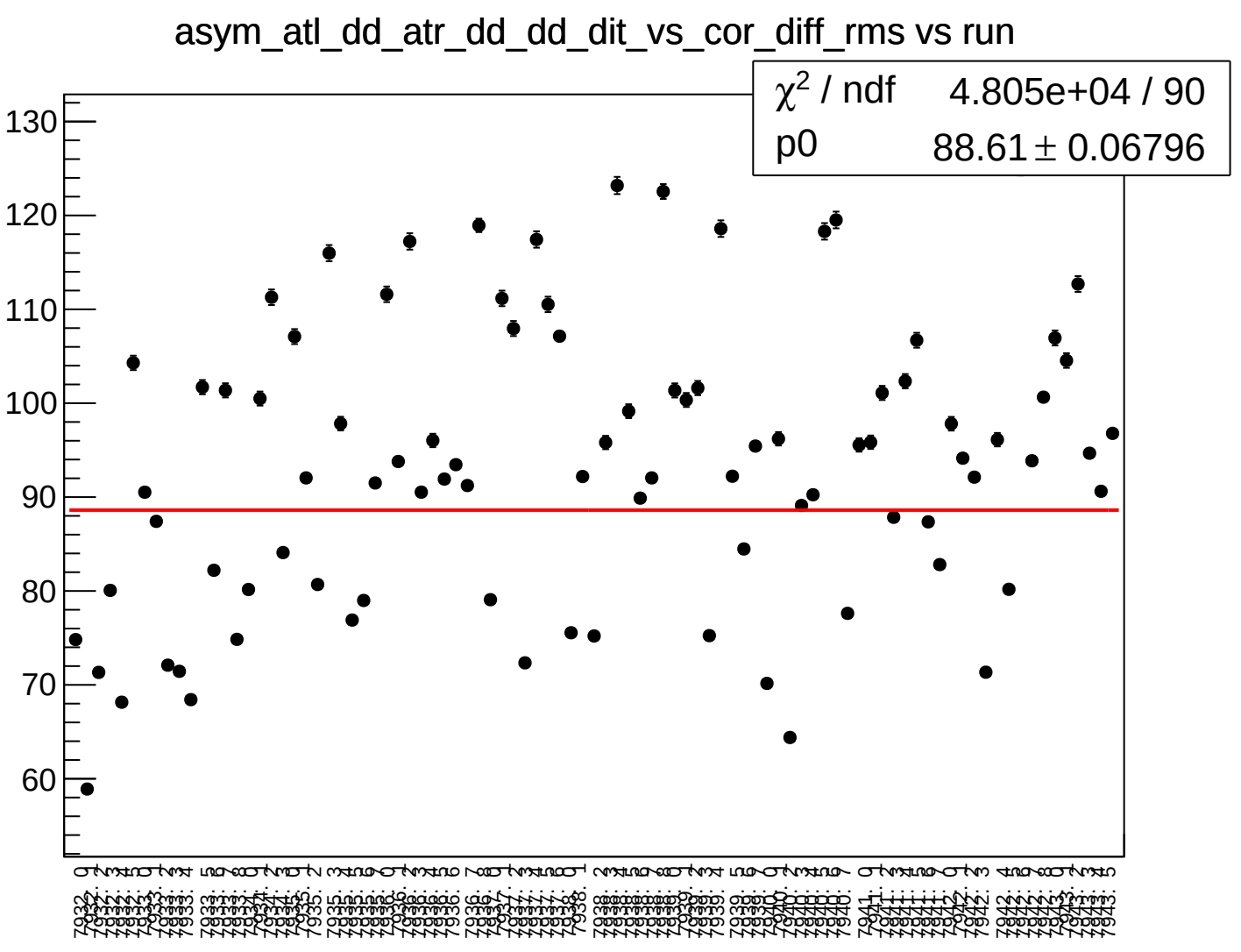

pull1D
Entries 91
Mean −0.00329
Std Dev 0.9712

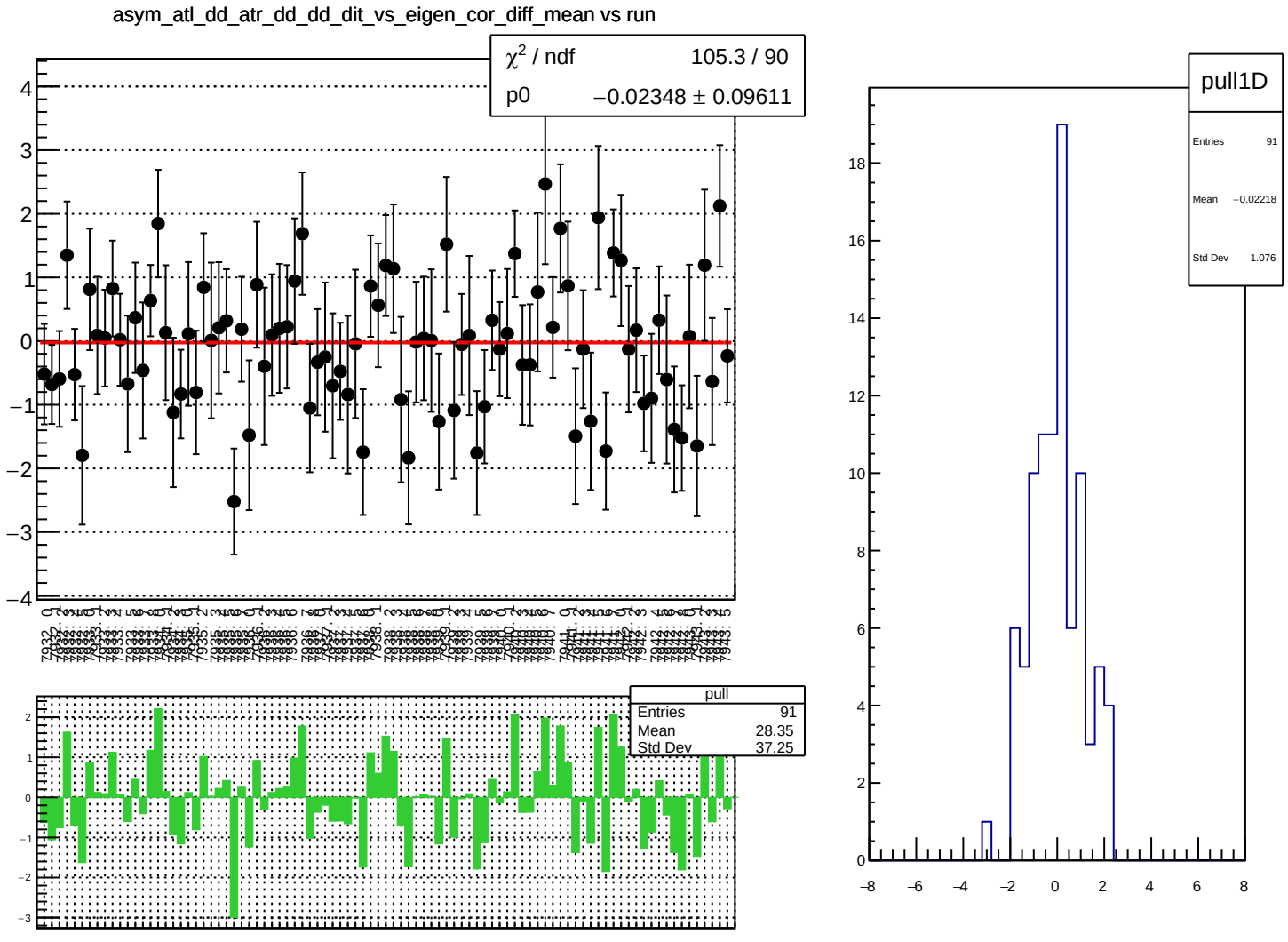

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 886.7 / 90
p0 2075 ± 1.57
2200
2150
2100
2050
2000
1950

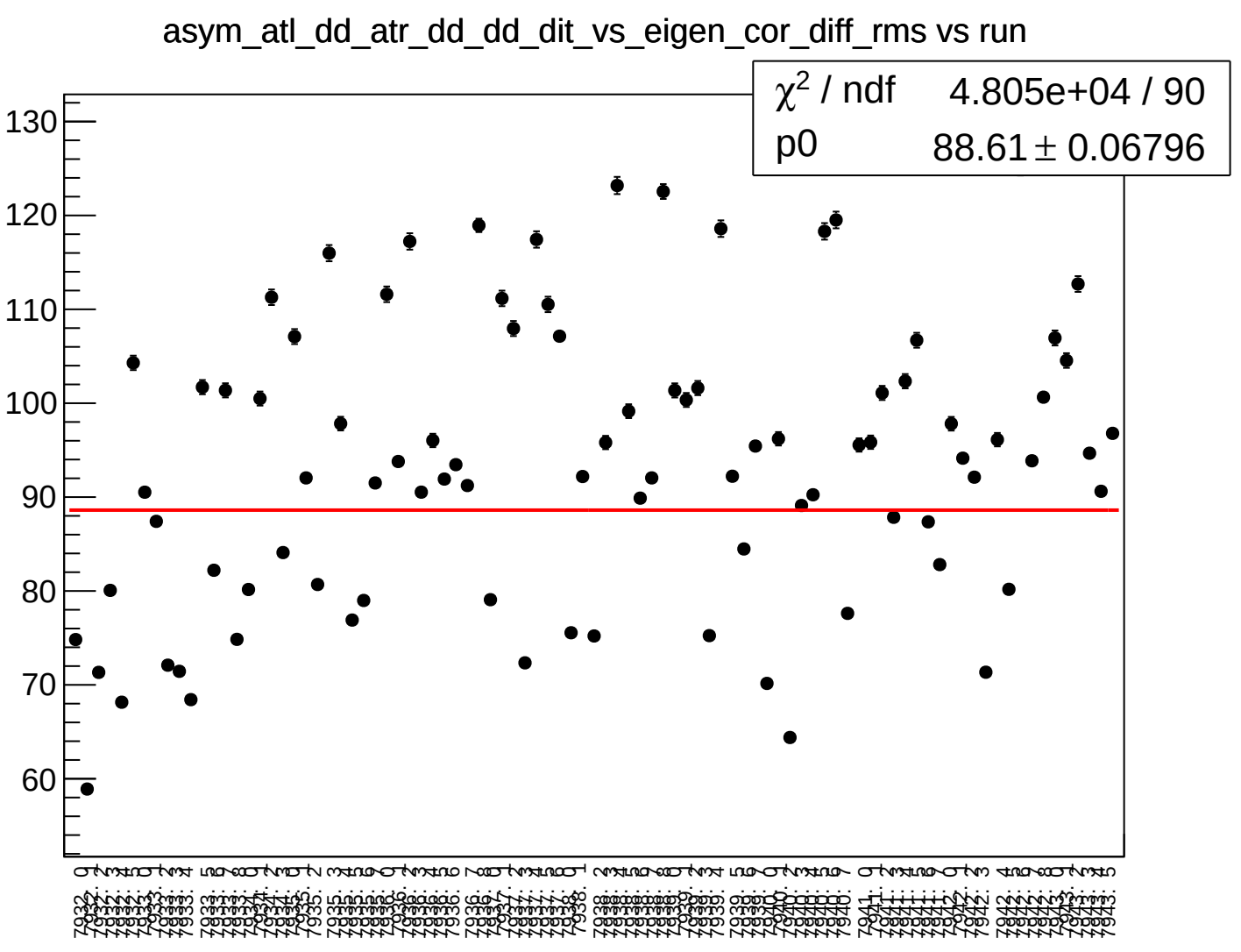

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 90
p0 −3.018e−13 ± 3.992e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 15.75
Std Dev 16.54
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.07834
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

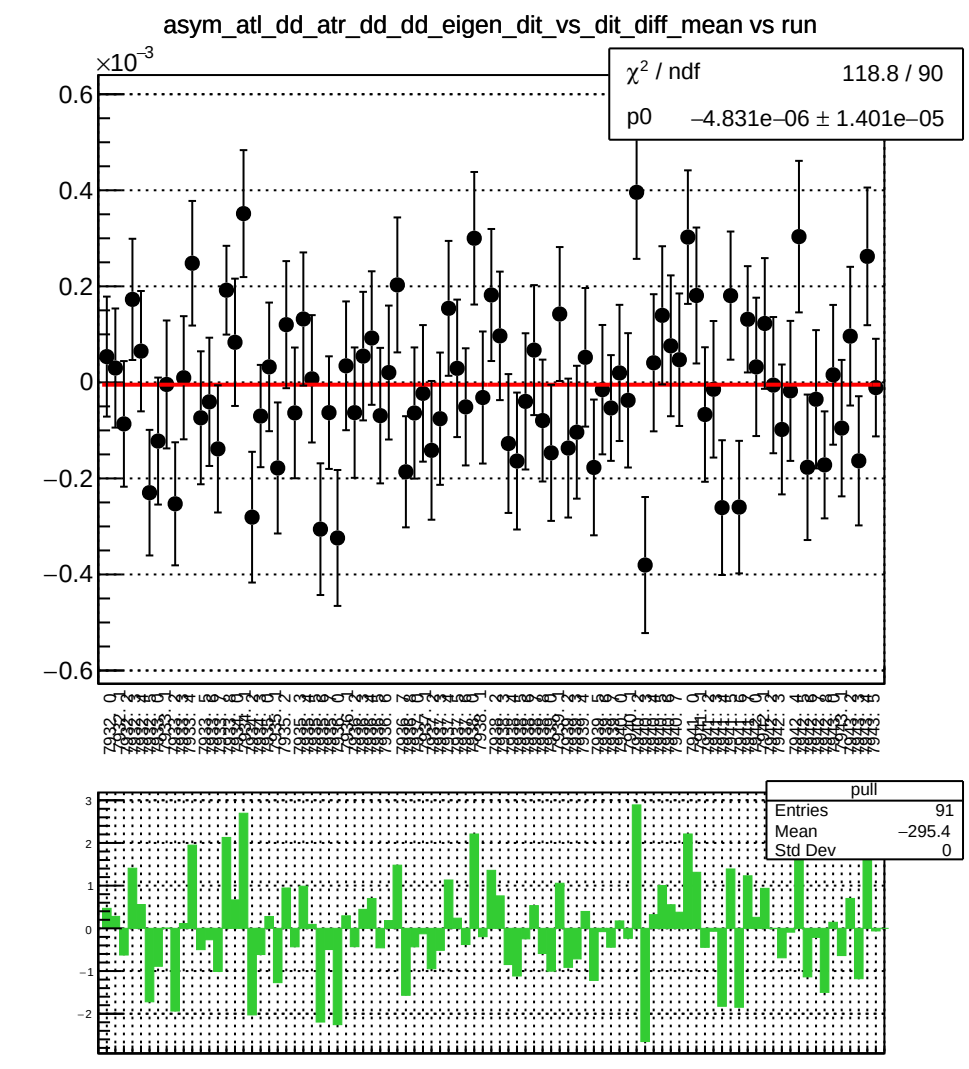

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.413e+05 / 90
p0 2.688e−10 ± 2.823e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

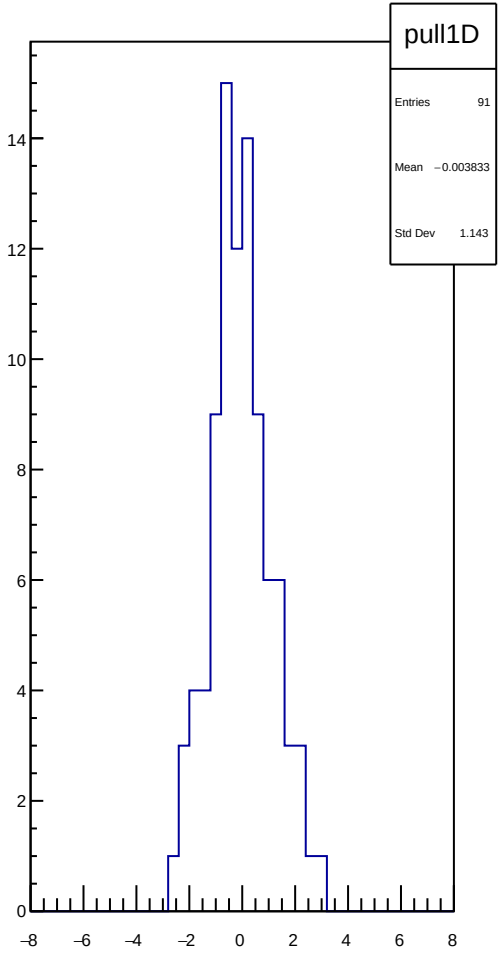

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09611
pull
Entries 91
Mean 28.35
Std Dev 37.25
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076

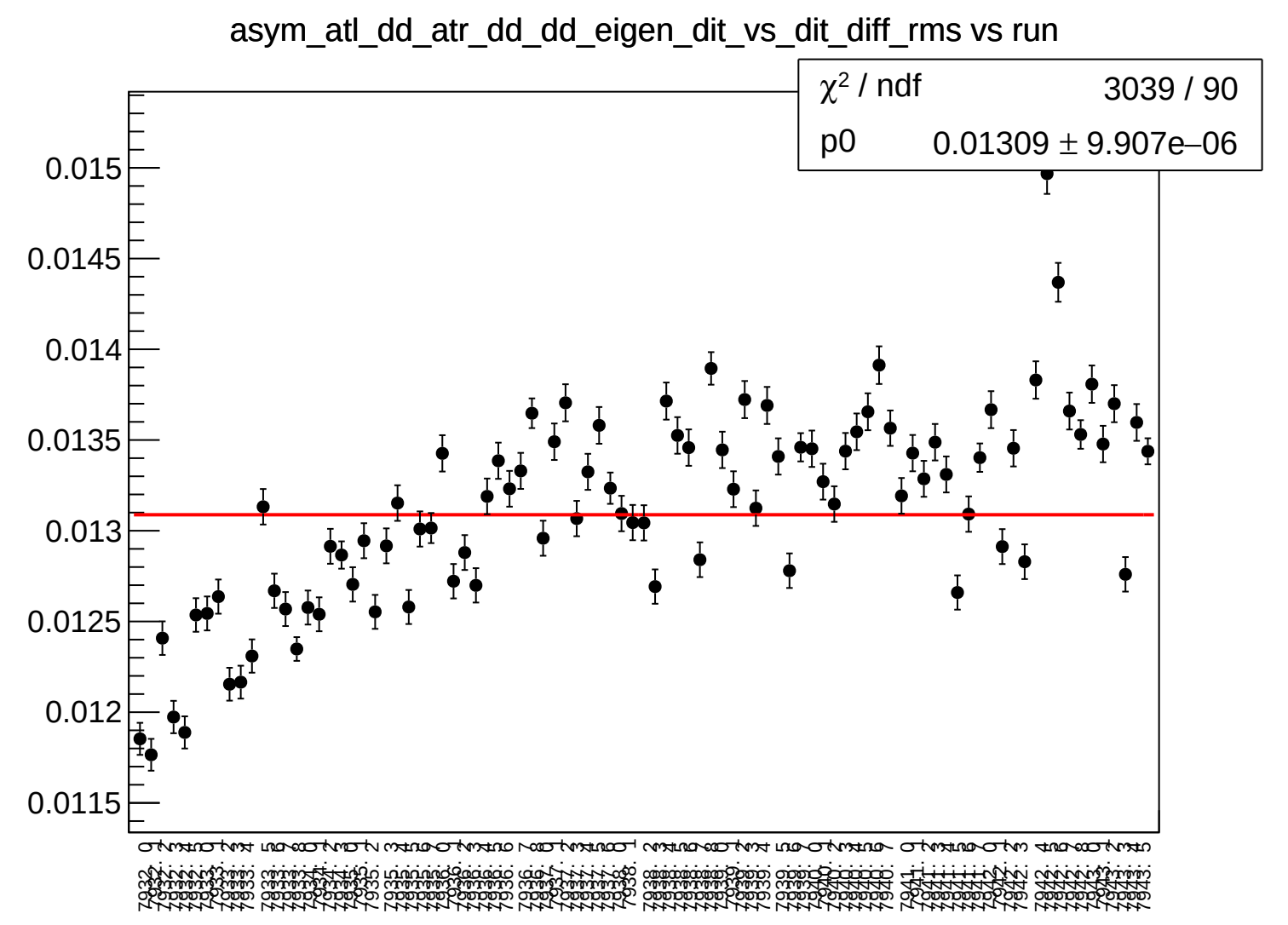

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.805e+04 / 90
p0 88.61 ± 0.06796
130
120
110
100
90
80
70
60

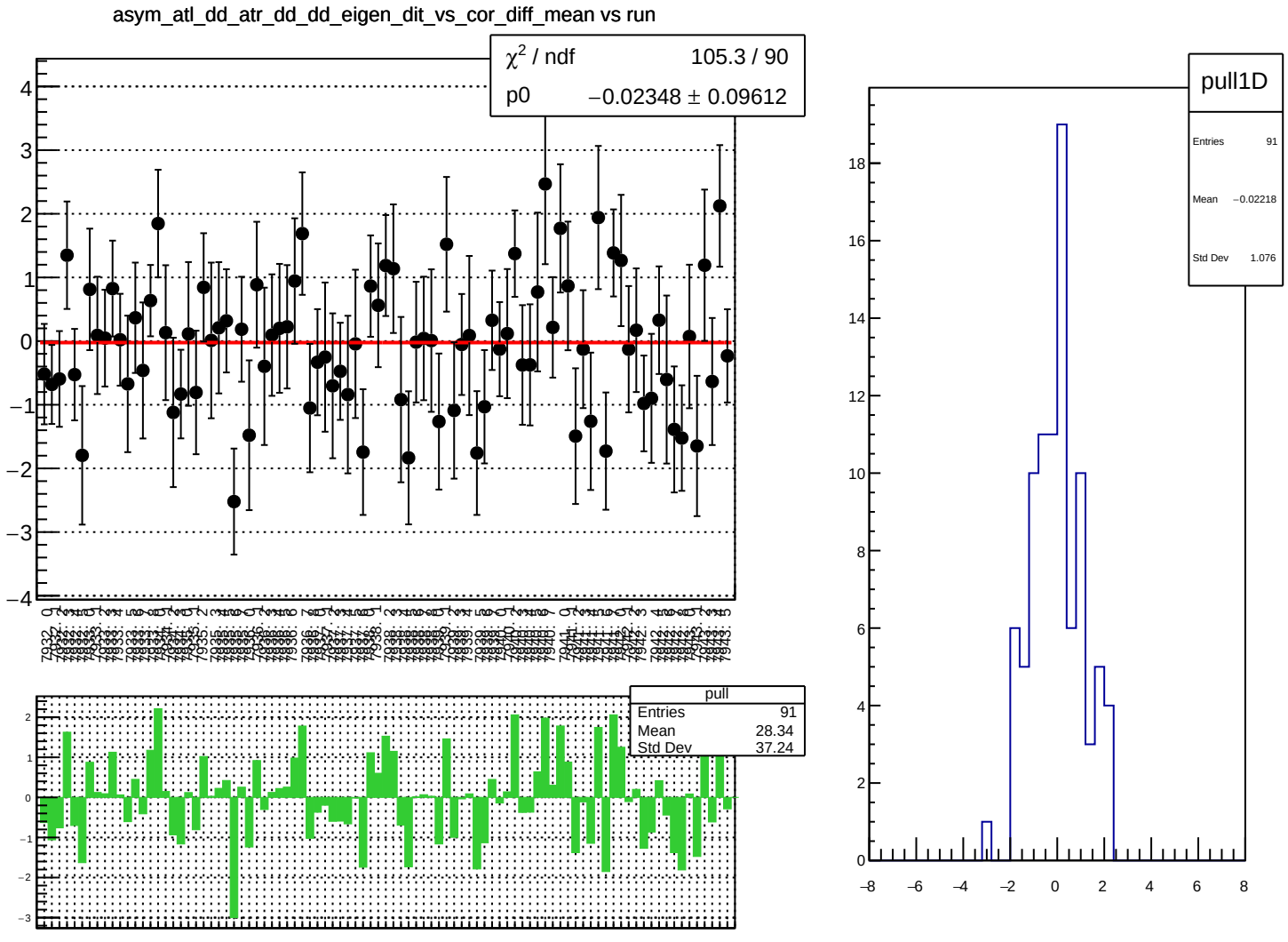

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09611
pull
Entries 91
Mean 28.35
Std Dev 37.25
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076

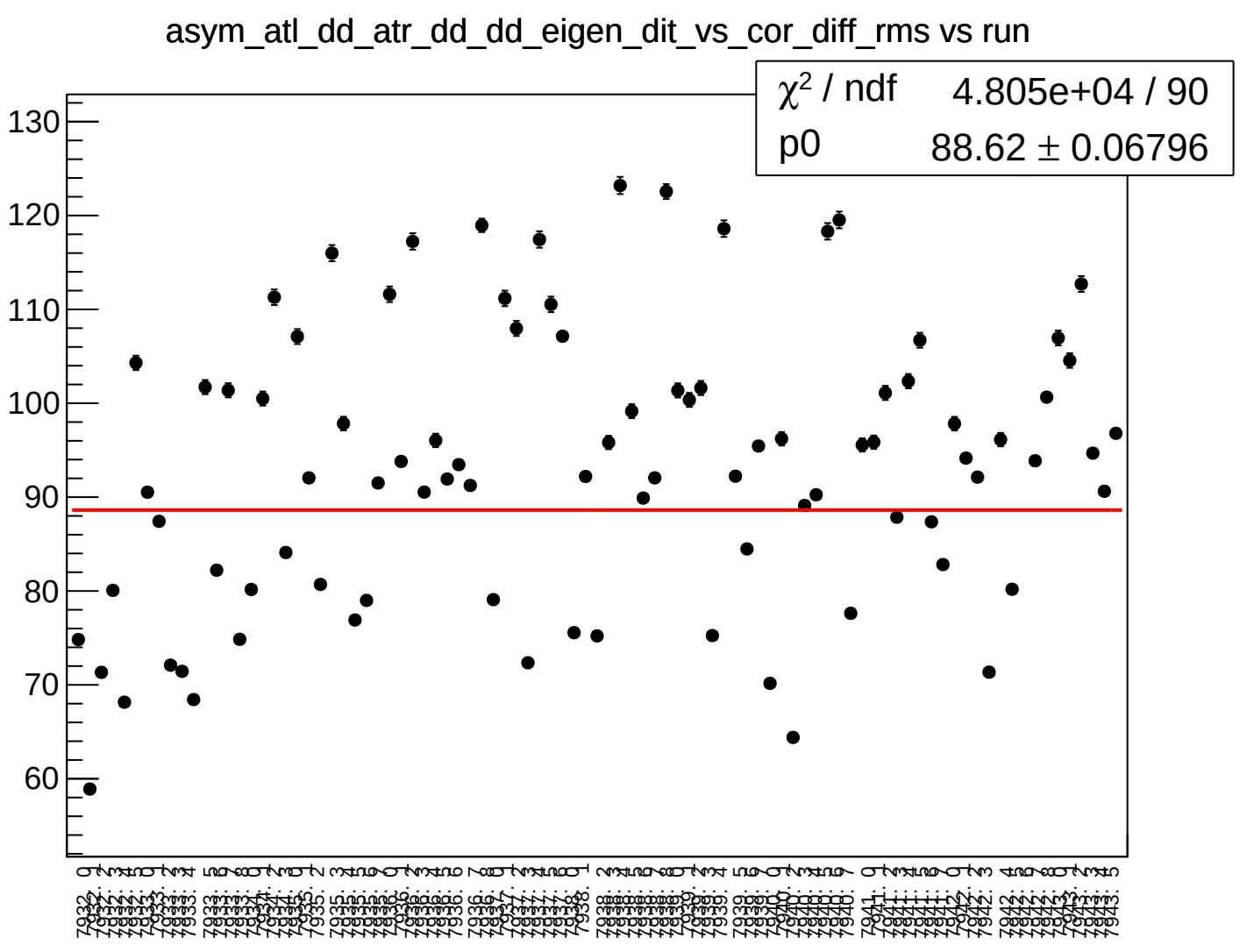

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.805e+04 / 90
p0 88.61 ± 0.06796
130
120
110
100
90
80
70
60

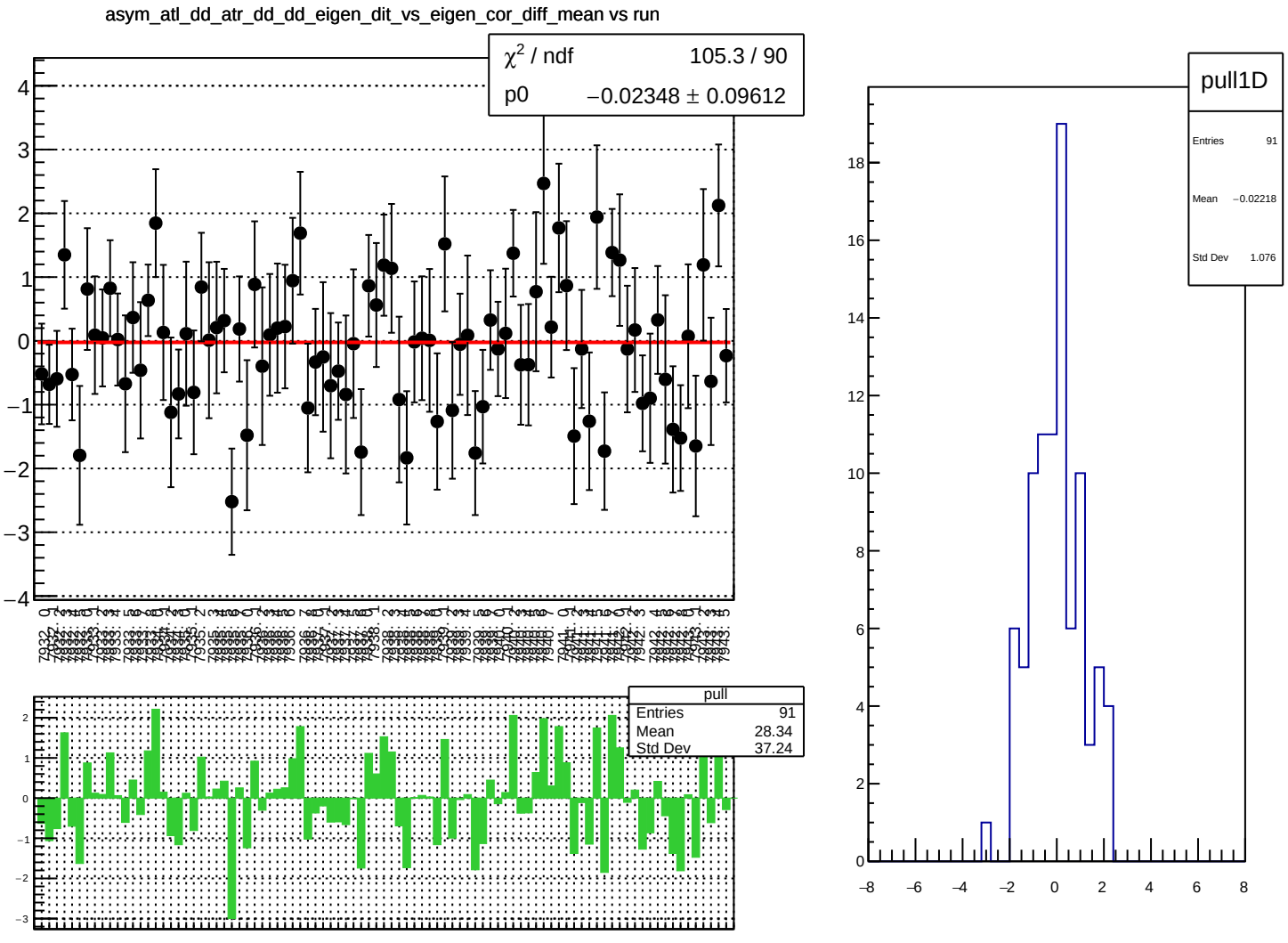

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.8 / 90
p0 −4.831e−06 ± 1.401e−05
pull
Entries 91
Mean −295.4
Std Dev 0

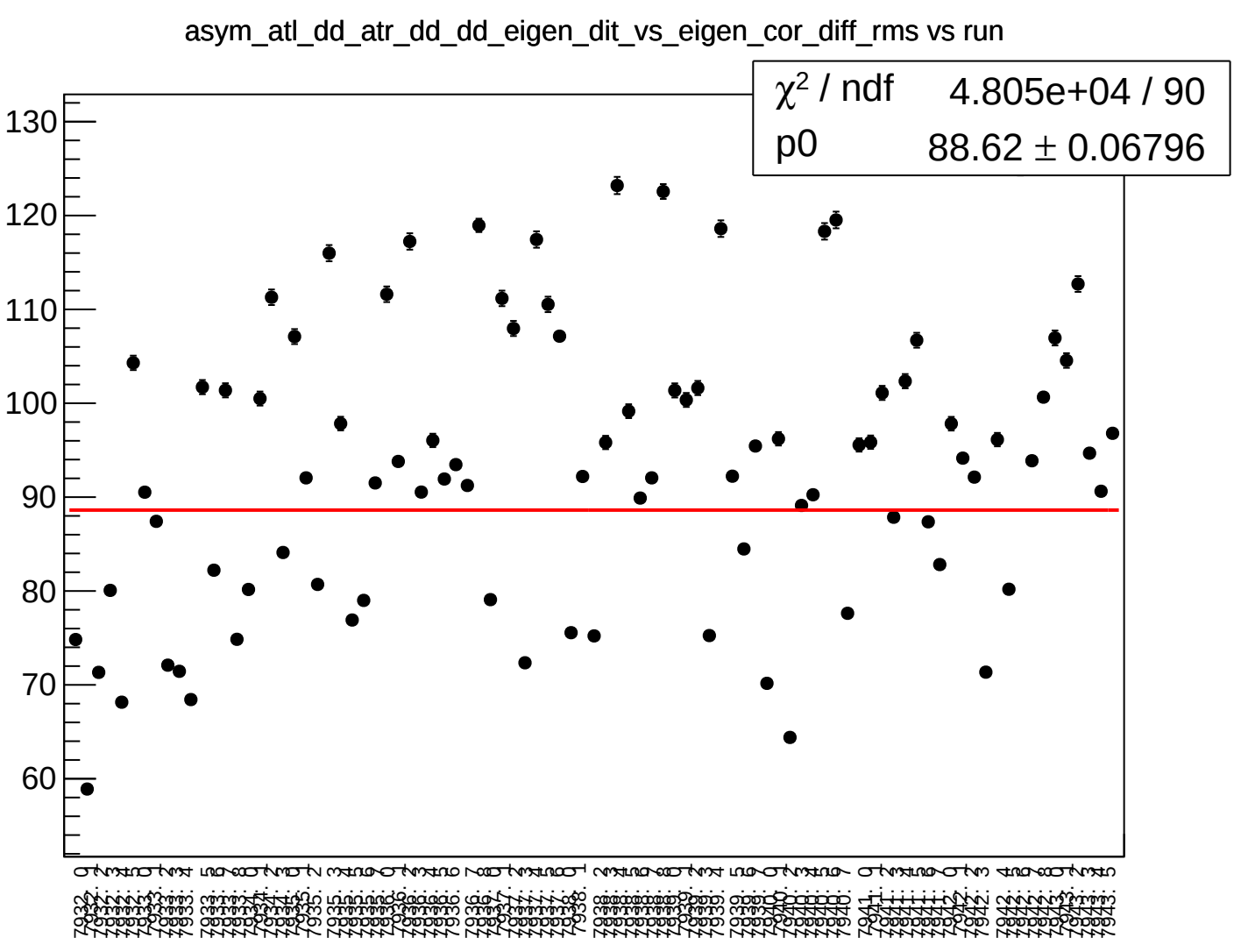

pull1D
Entries 91
Mean −0.003833
Std Dev 1.143

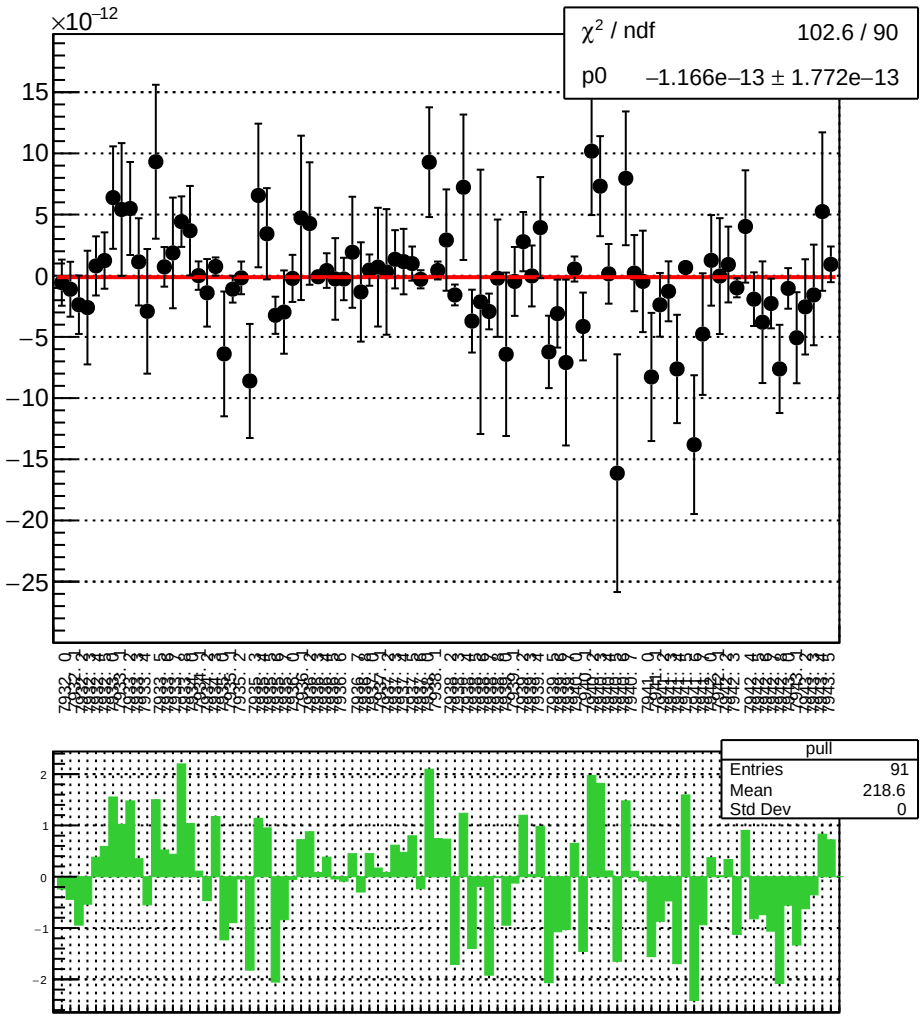

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3039 / 90
p0 0.01309 ± 9.907e–06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

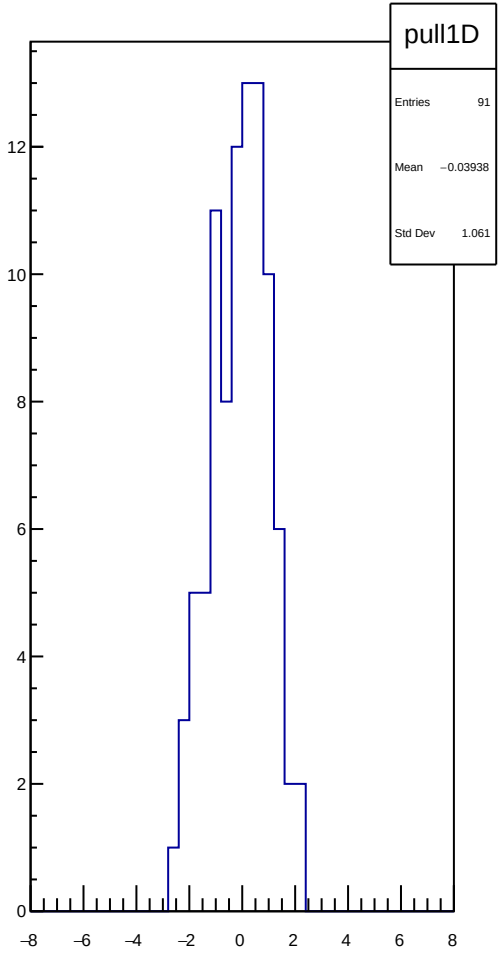

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09612
pull
Entries 91
Mean 28.34
Std Dev 37.24
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076

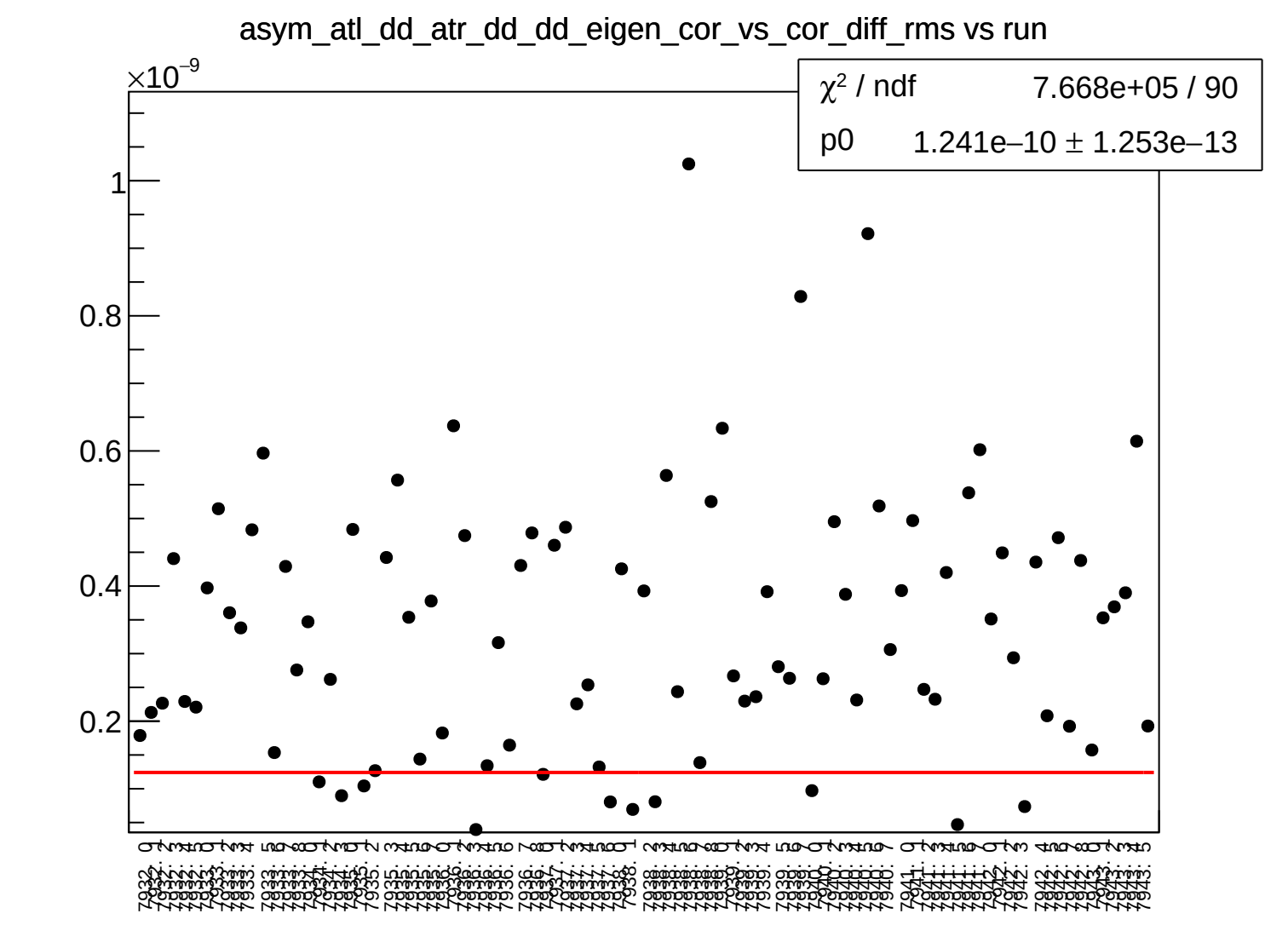

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.805e+04 / 90
p0 88.62 ± 0.06796
130
120
110
100
90
80
70
60

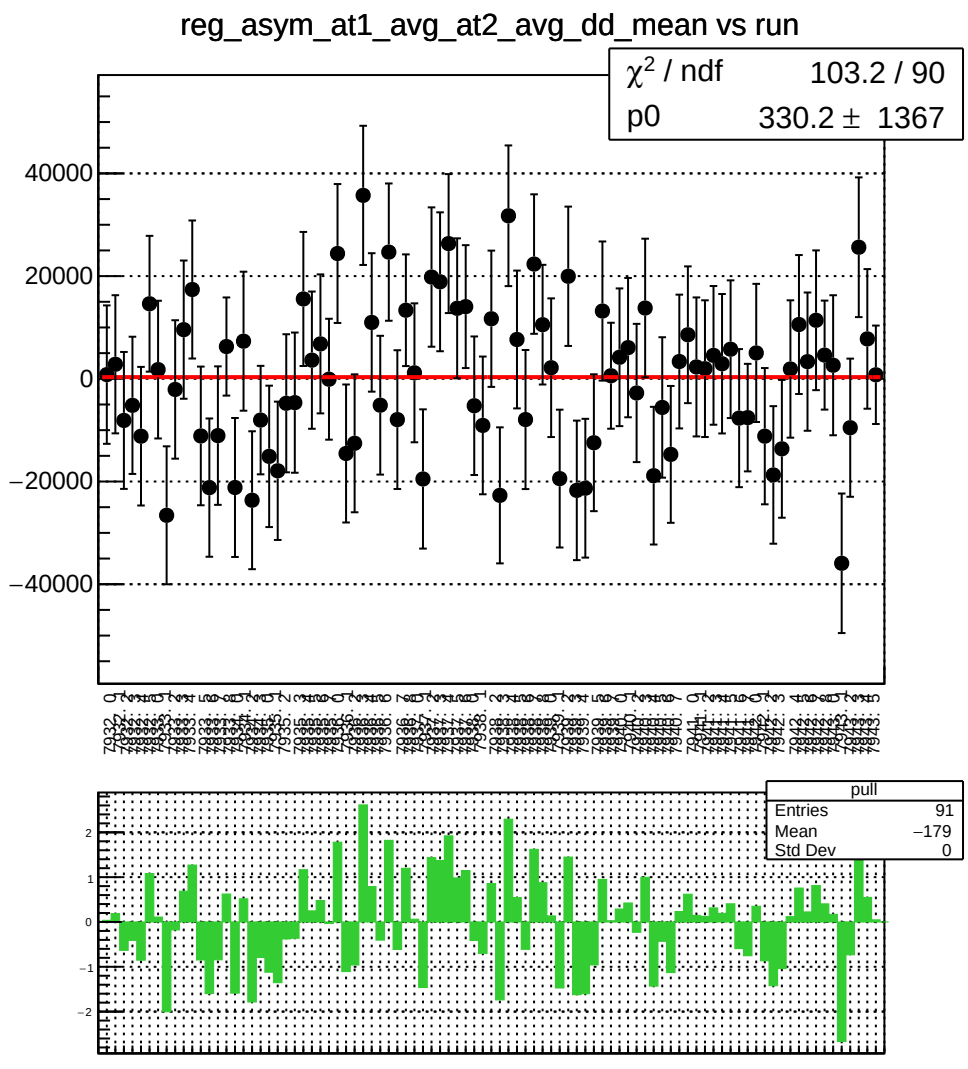

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09612
pull
Entries 91
Mean 28.34
Std Dev 37.24
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076

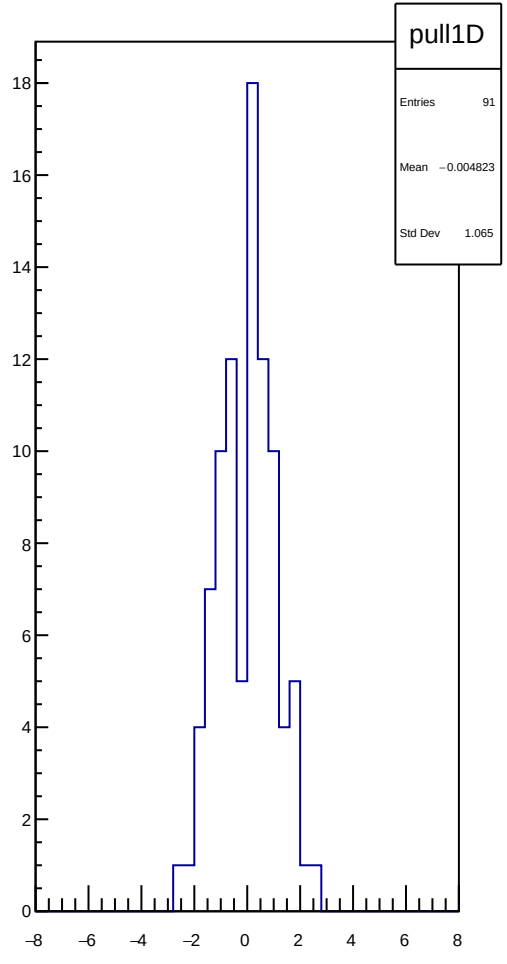

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.805e+04 / 90
p0 88.62 ± 0.06796
130
120
110
100
90
80
70
60

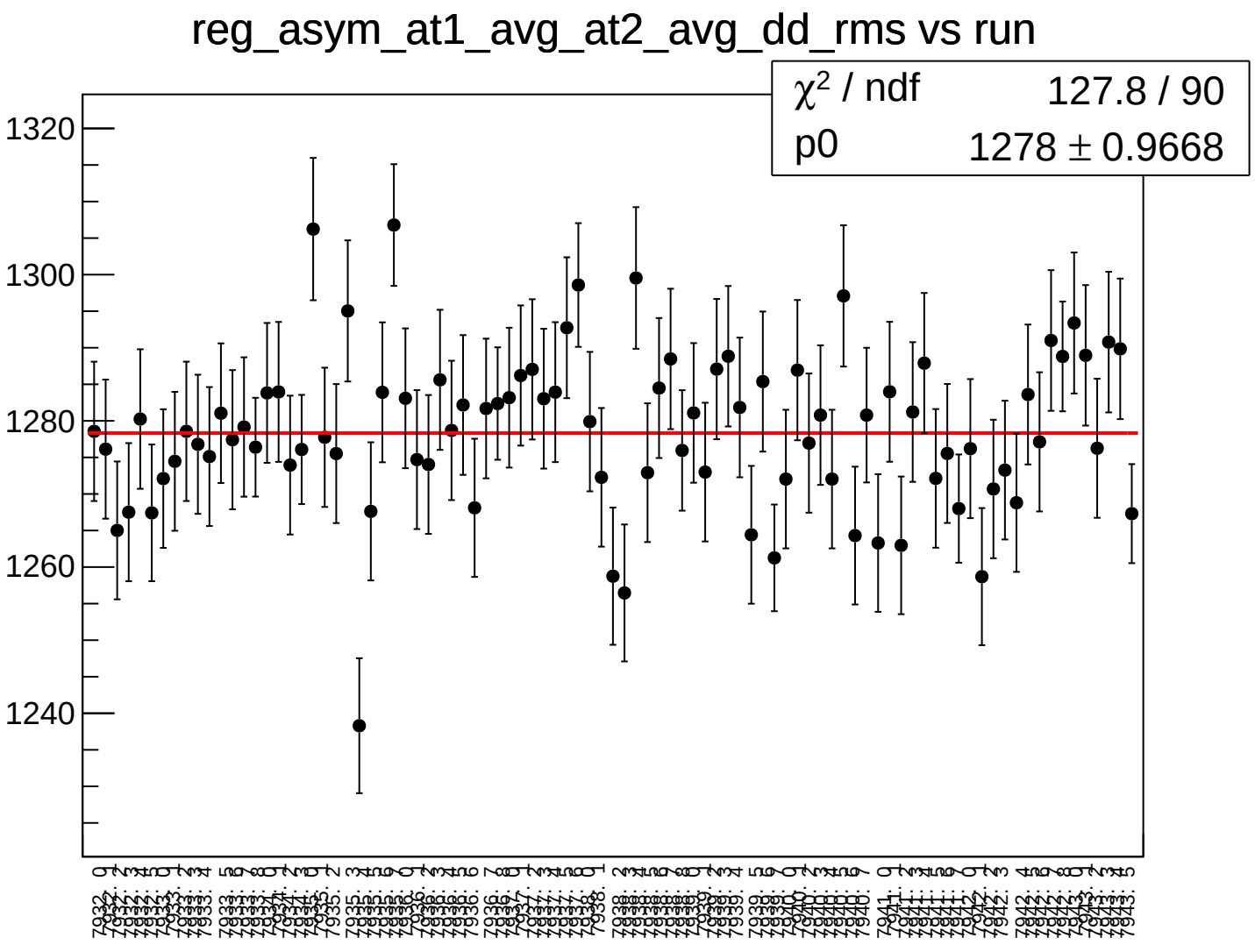

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.6 / 90
p0 −1.166e−13 ± 1.772e−13
pull
Entries 91
Mean 218.6
Std Dev 0

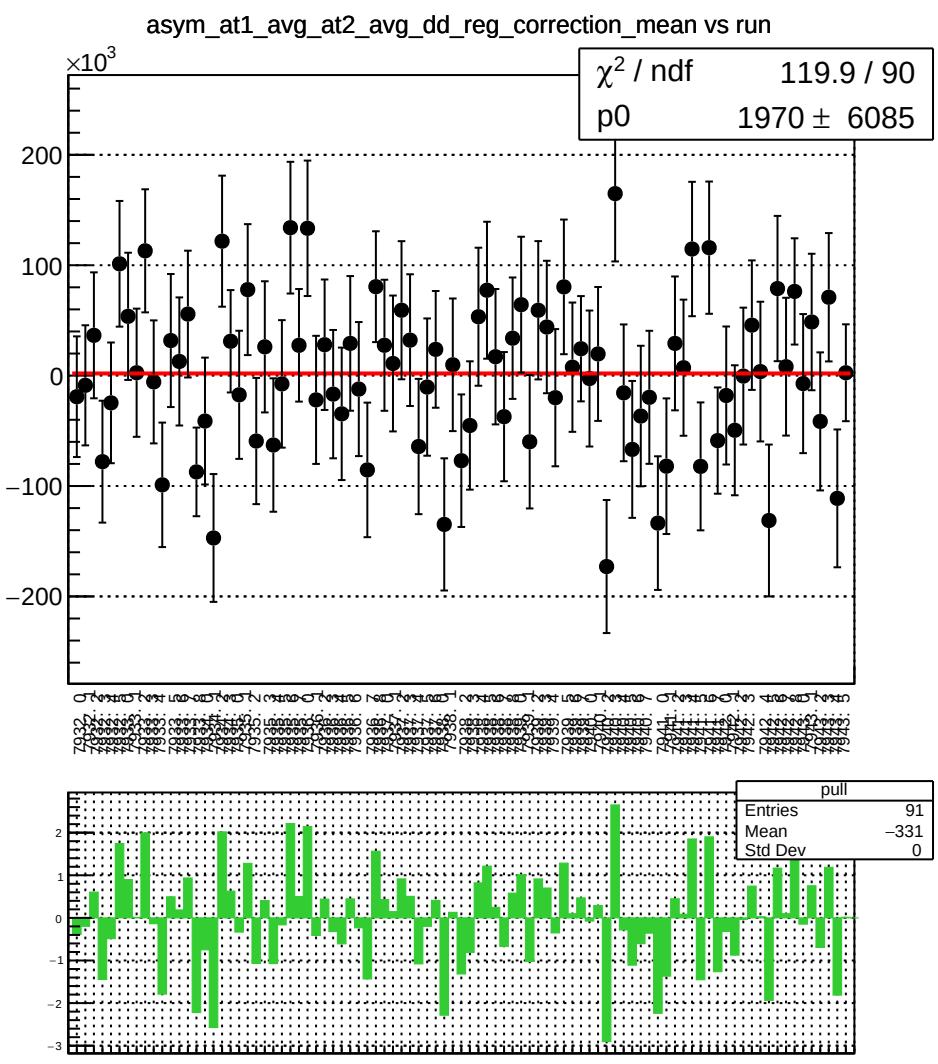

pull1D
Entries 91
Mean −0.03938
Std Dev 1.061

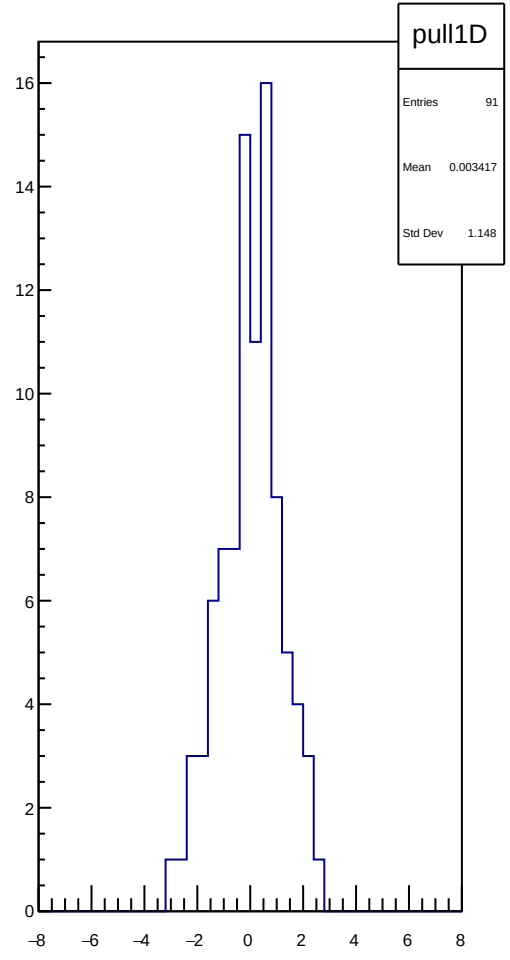

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.668e+05 / 90
p0 1.241e−10 ± 1.253e−13
1
0.8
0.6
0.4
0.2

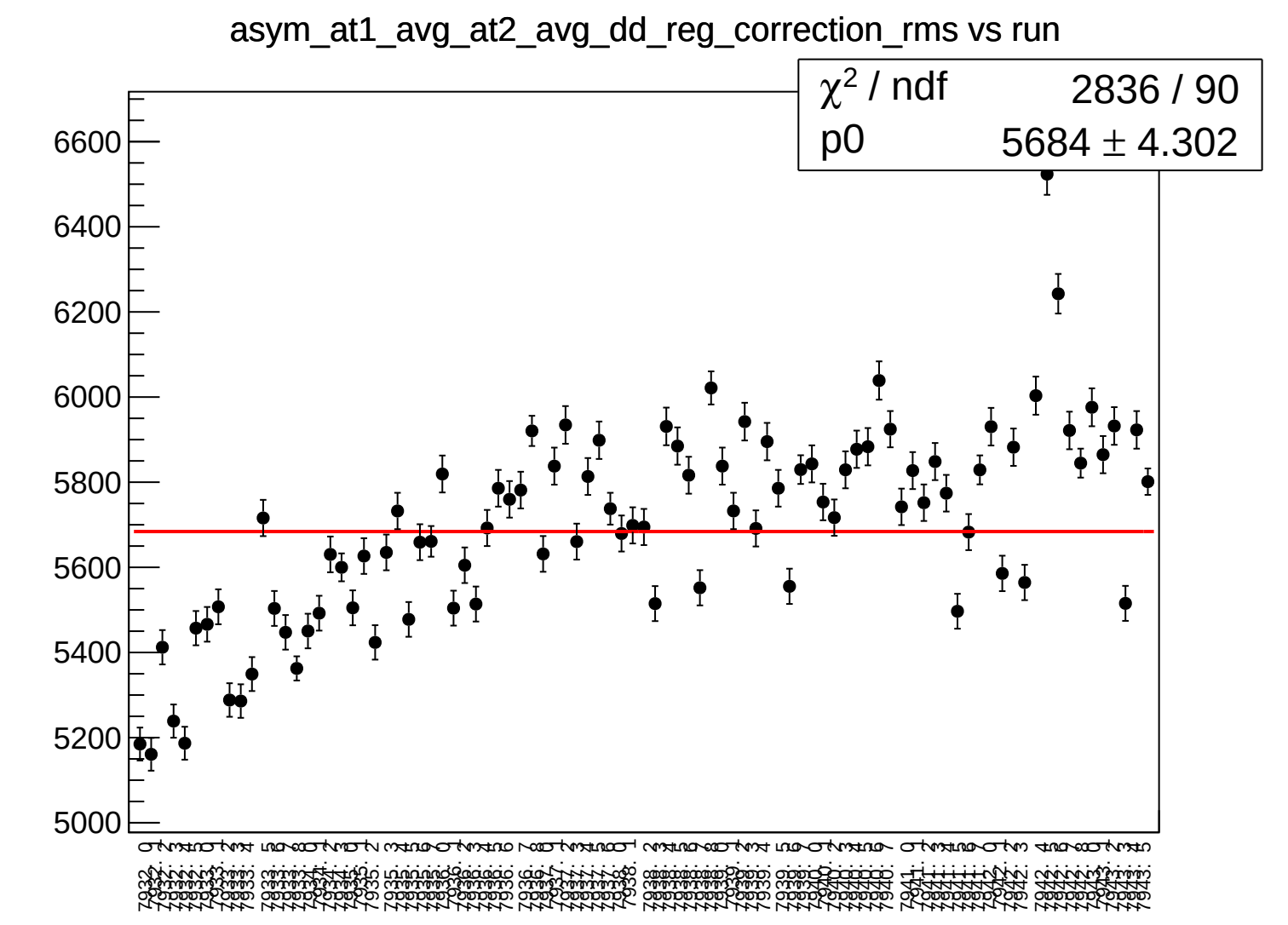

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
2
1
0
−1
−2

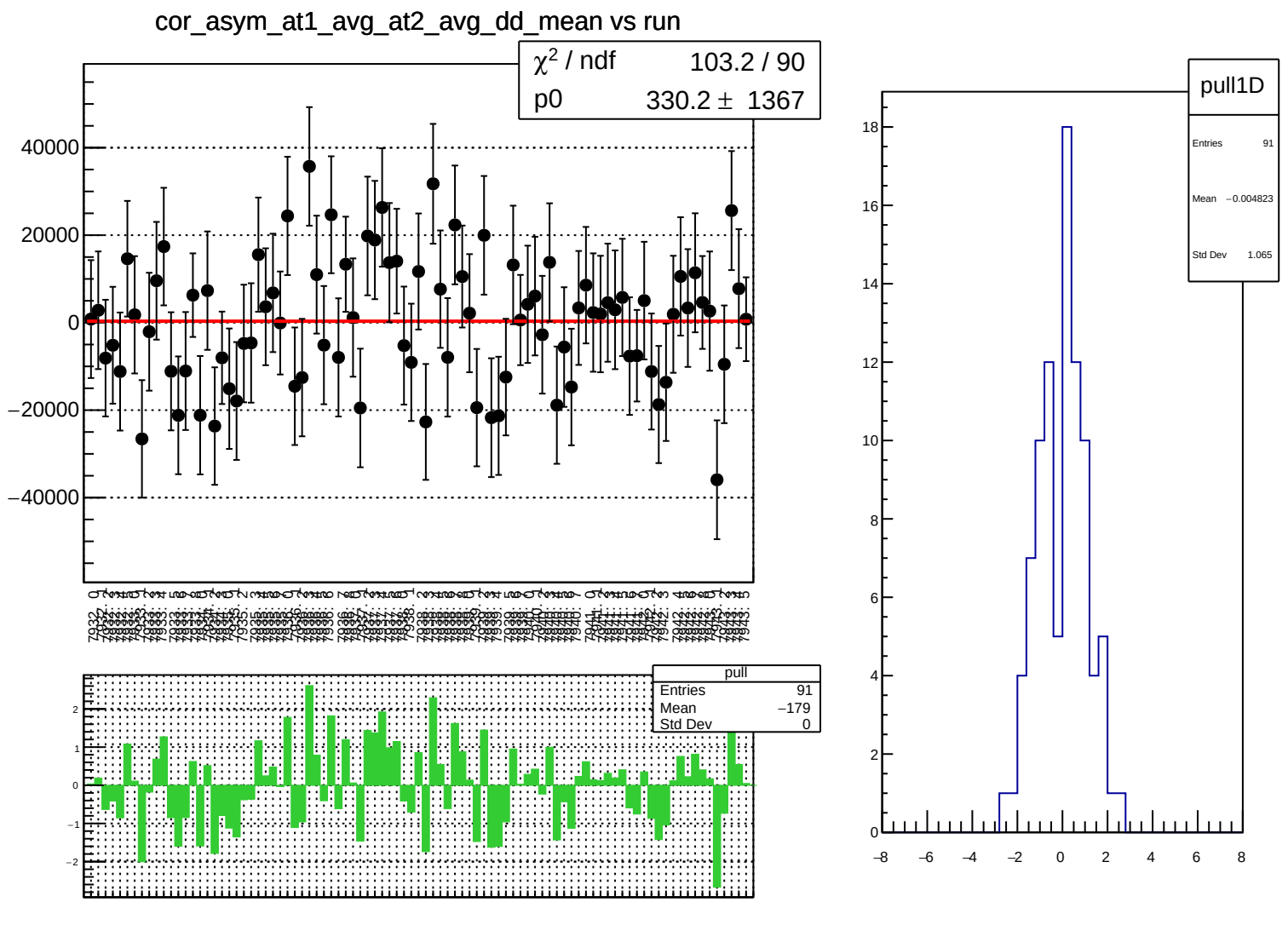

pull1D
Entries 91
Mean −0.004823
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

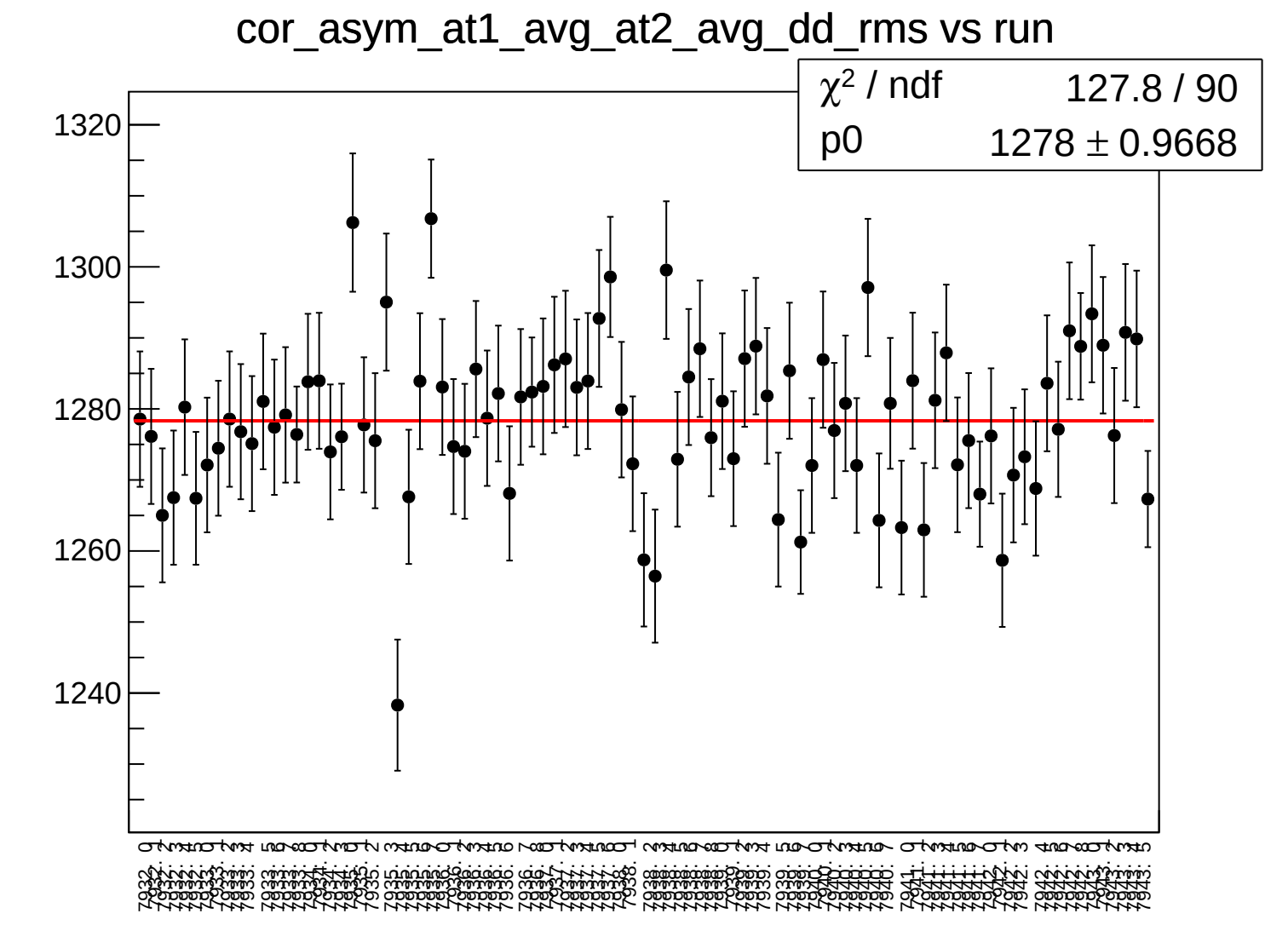

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

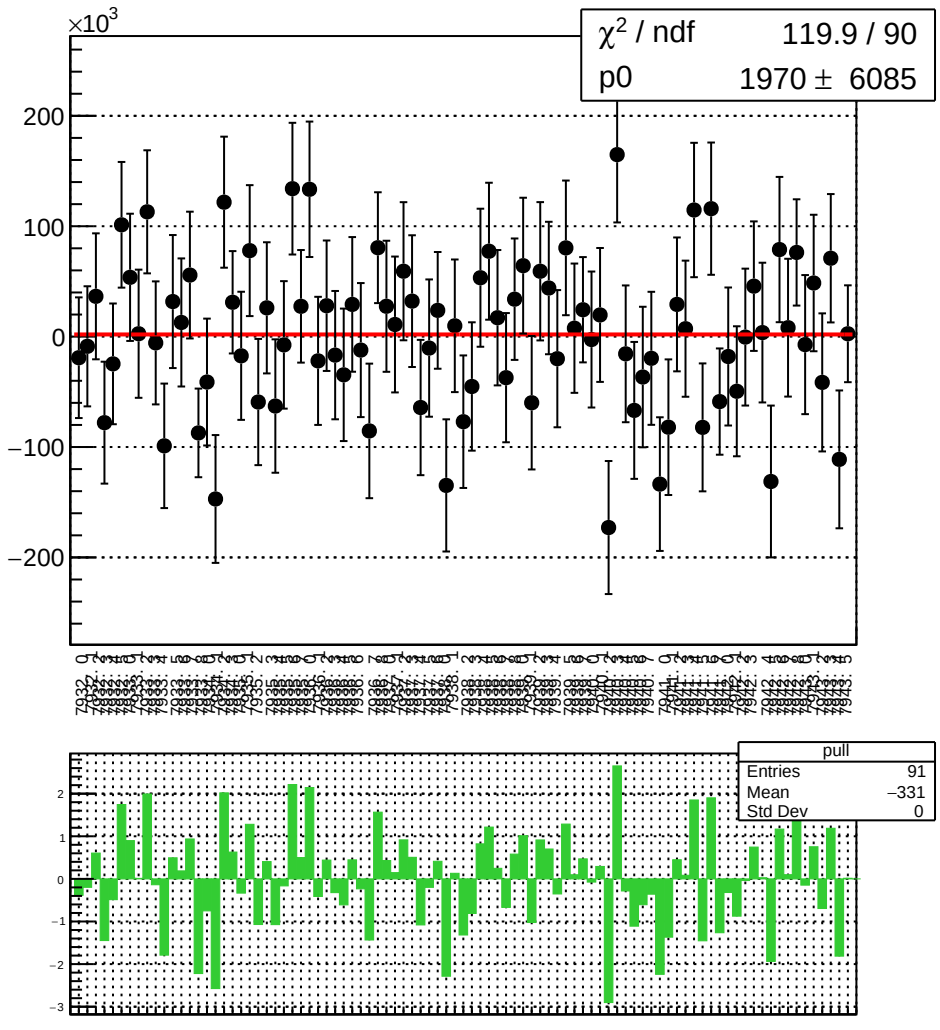

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3

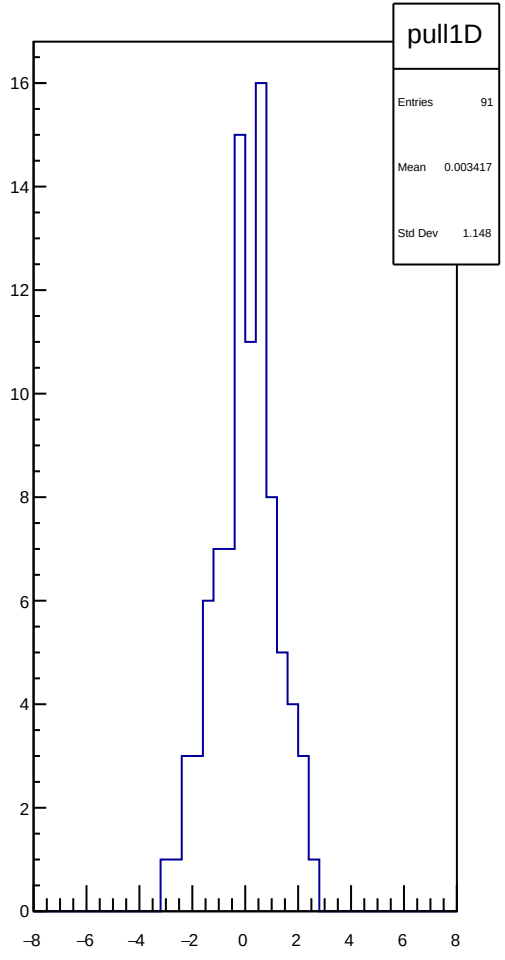

pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

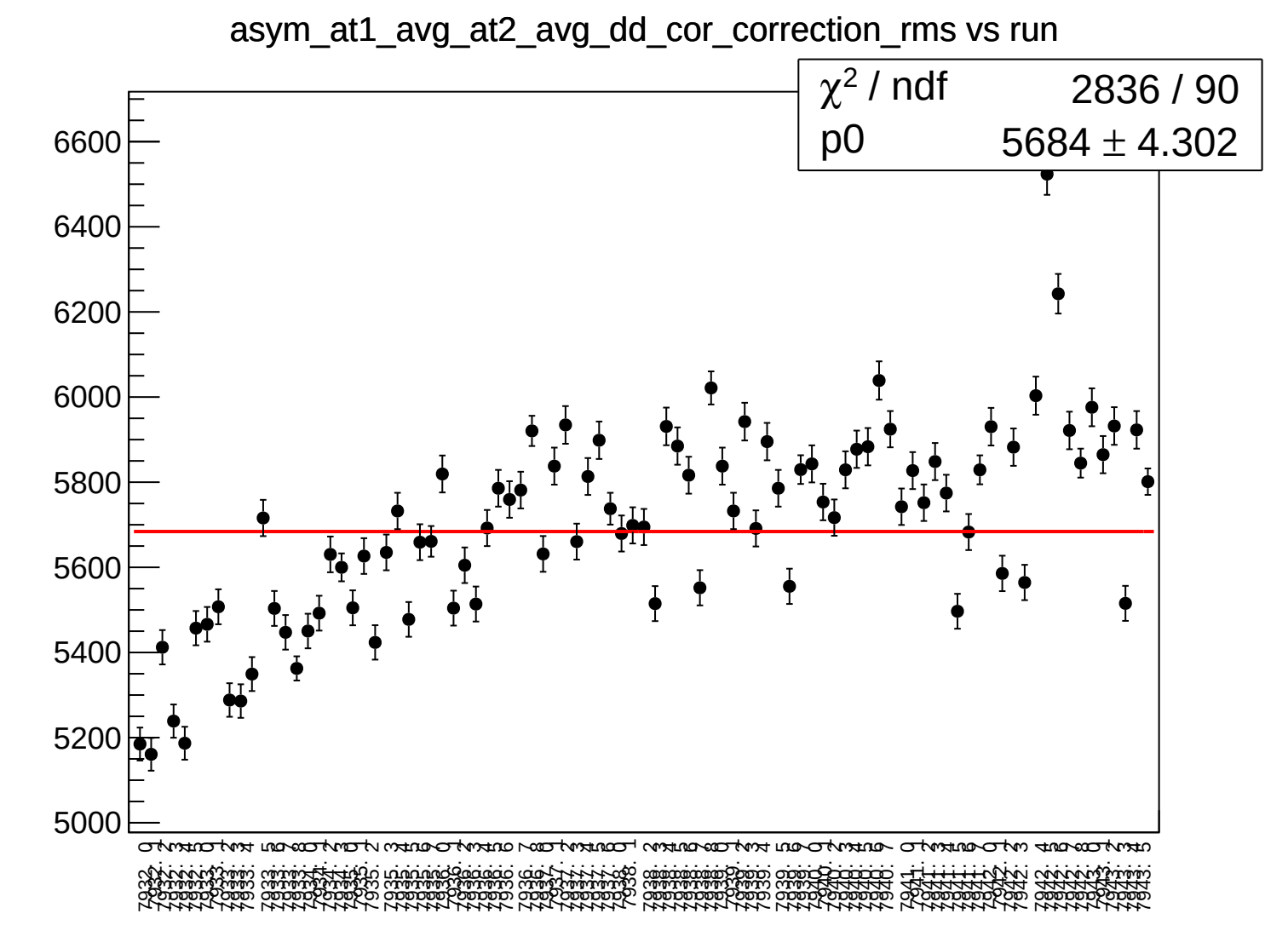

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

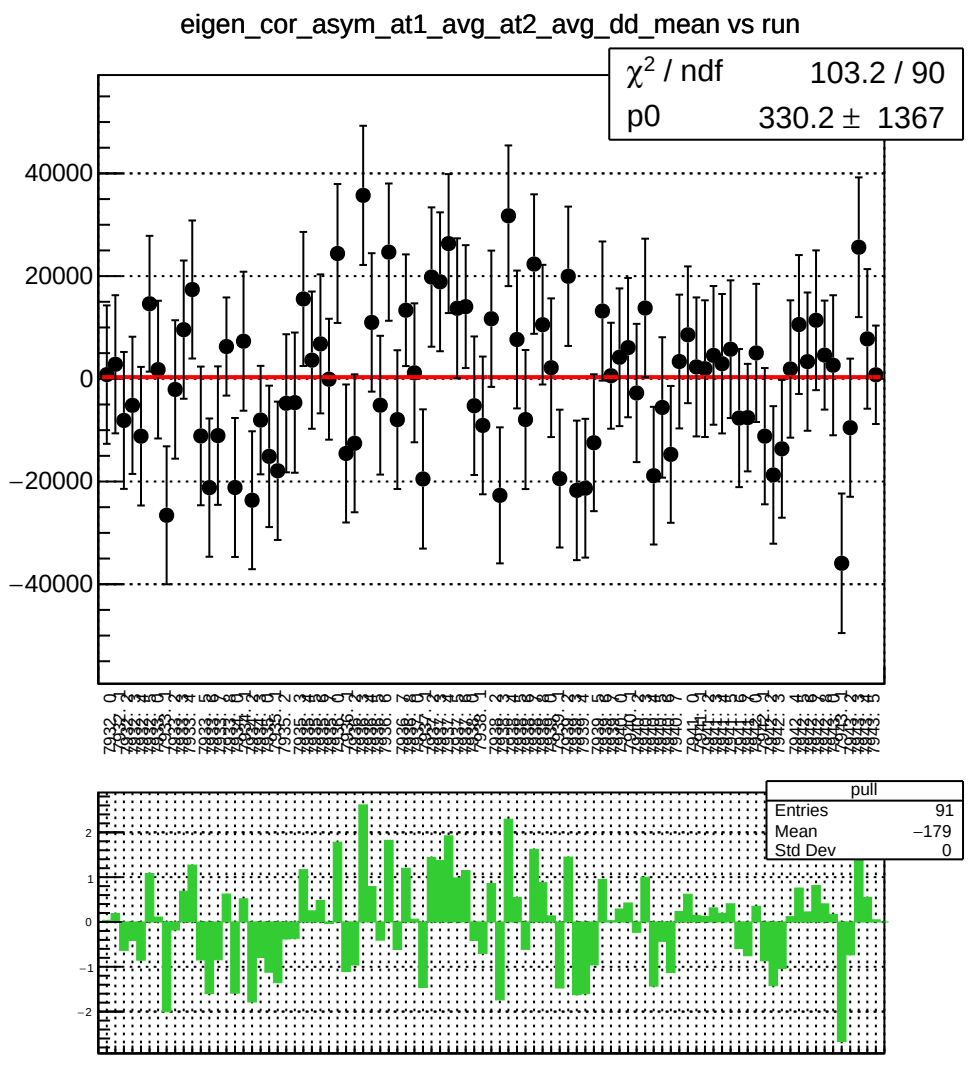

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
pull1D
Entries 91
Mean −0.004823
Std Dev 1.065

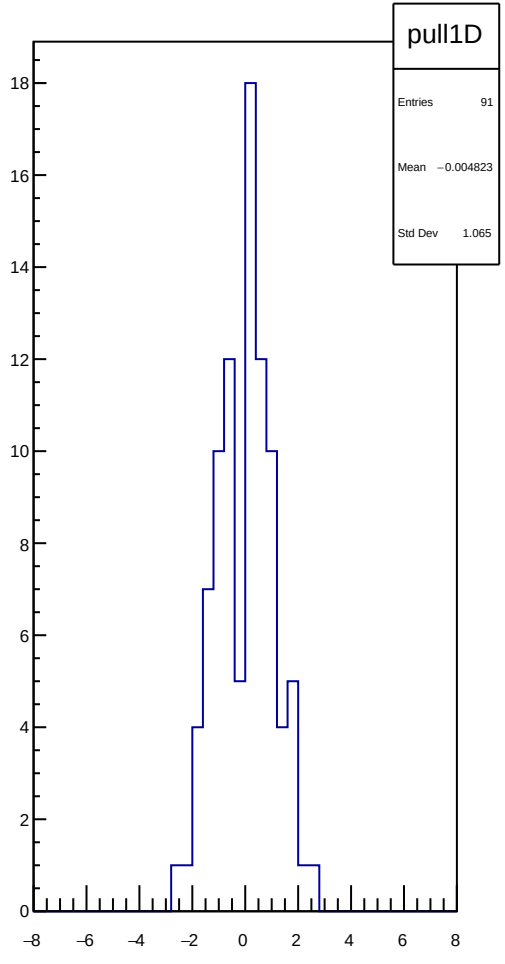

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240


asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.004823
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
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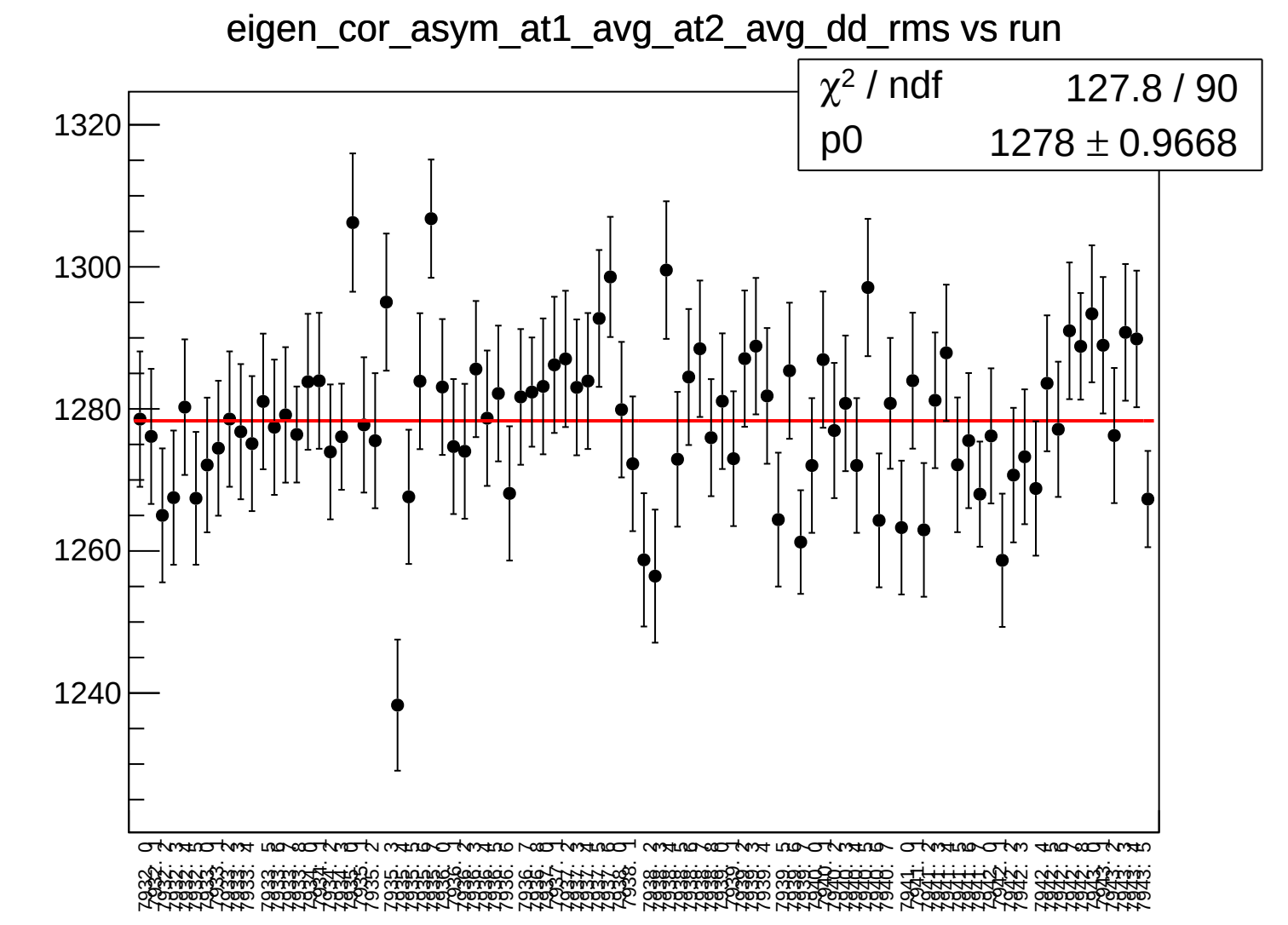
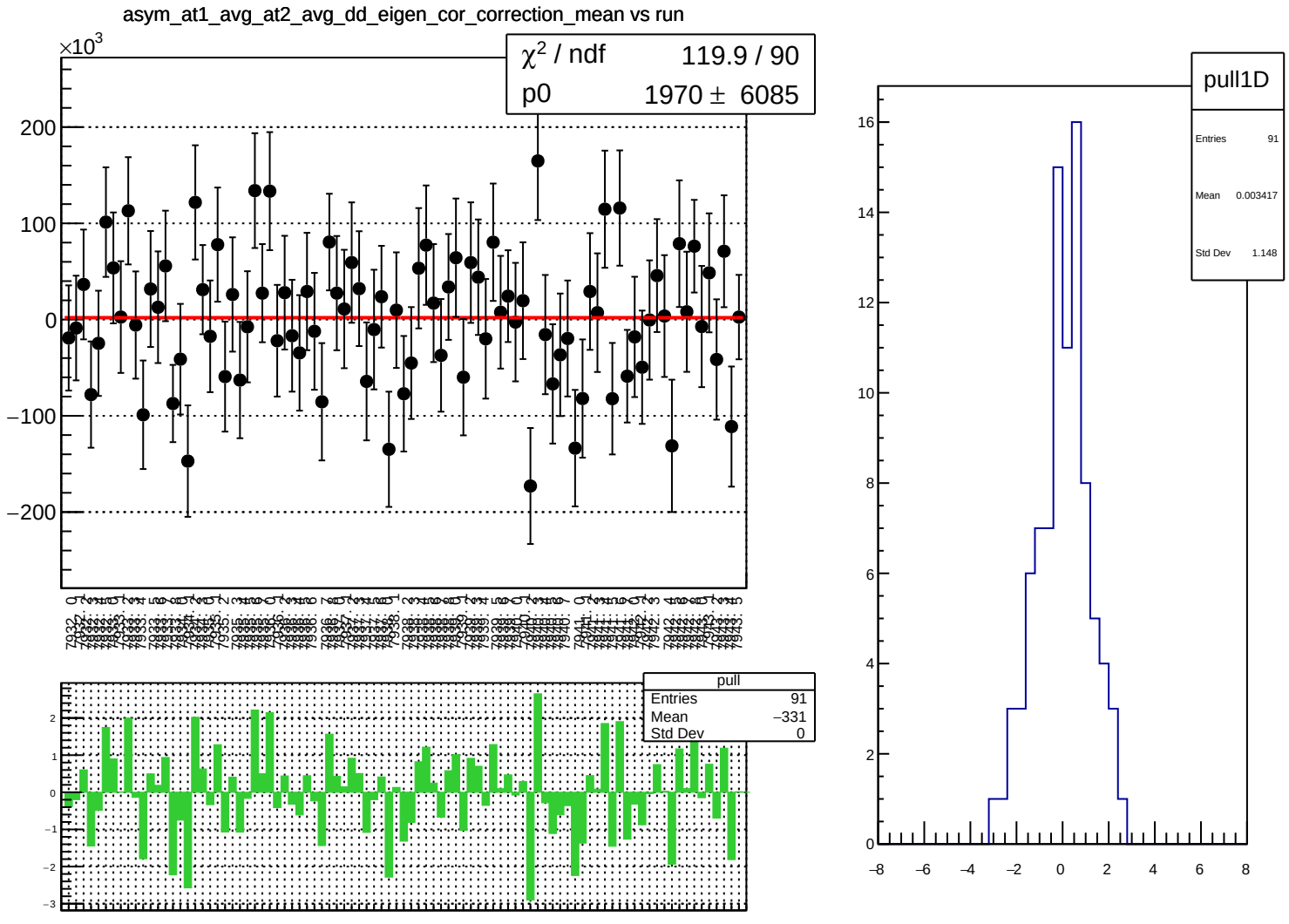
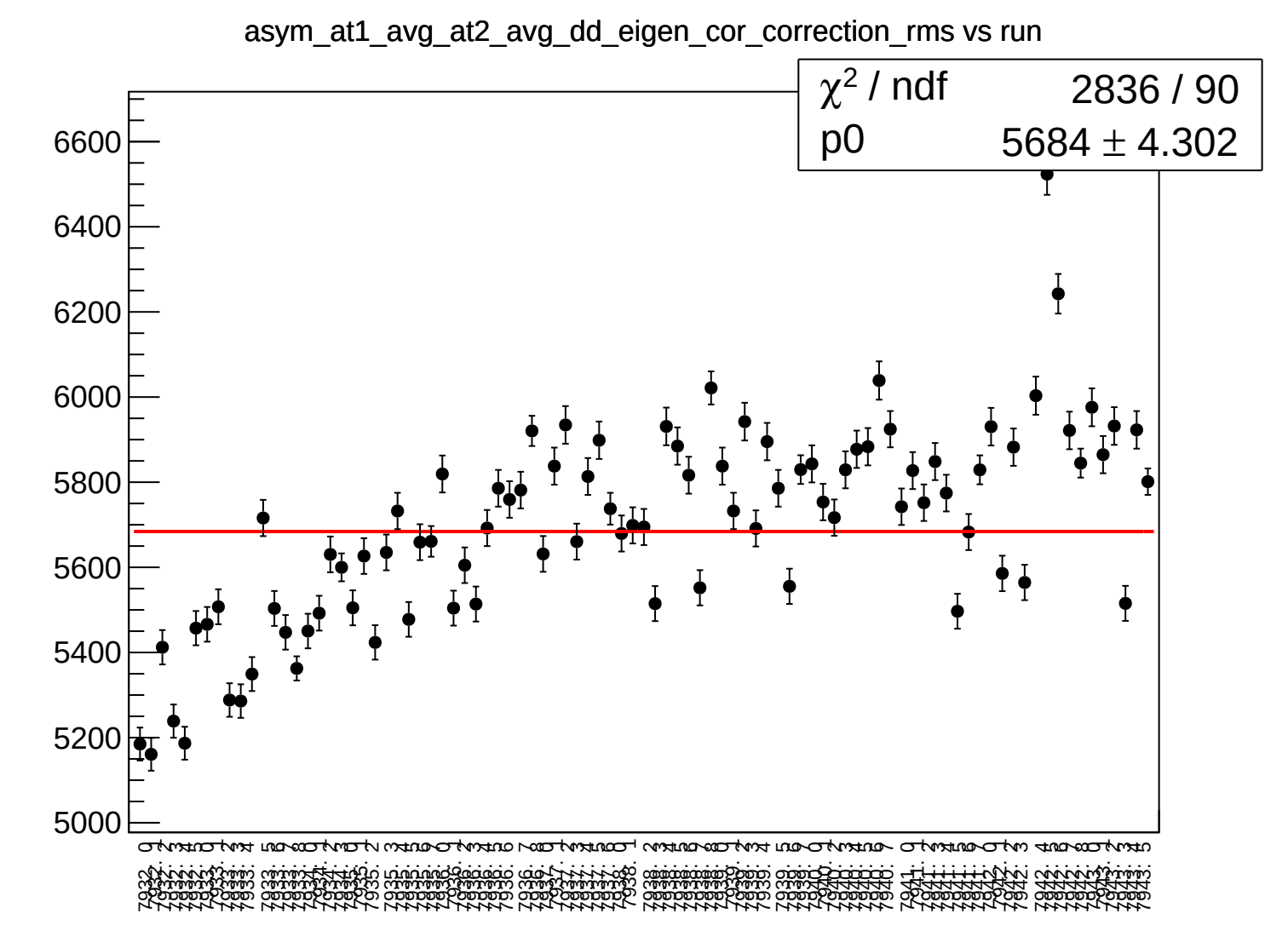
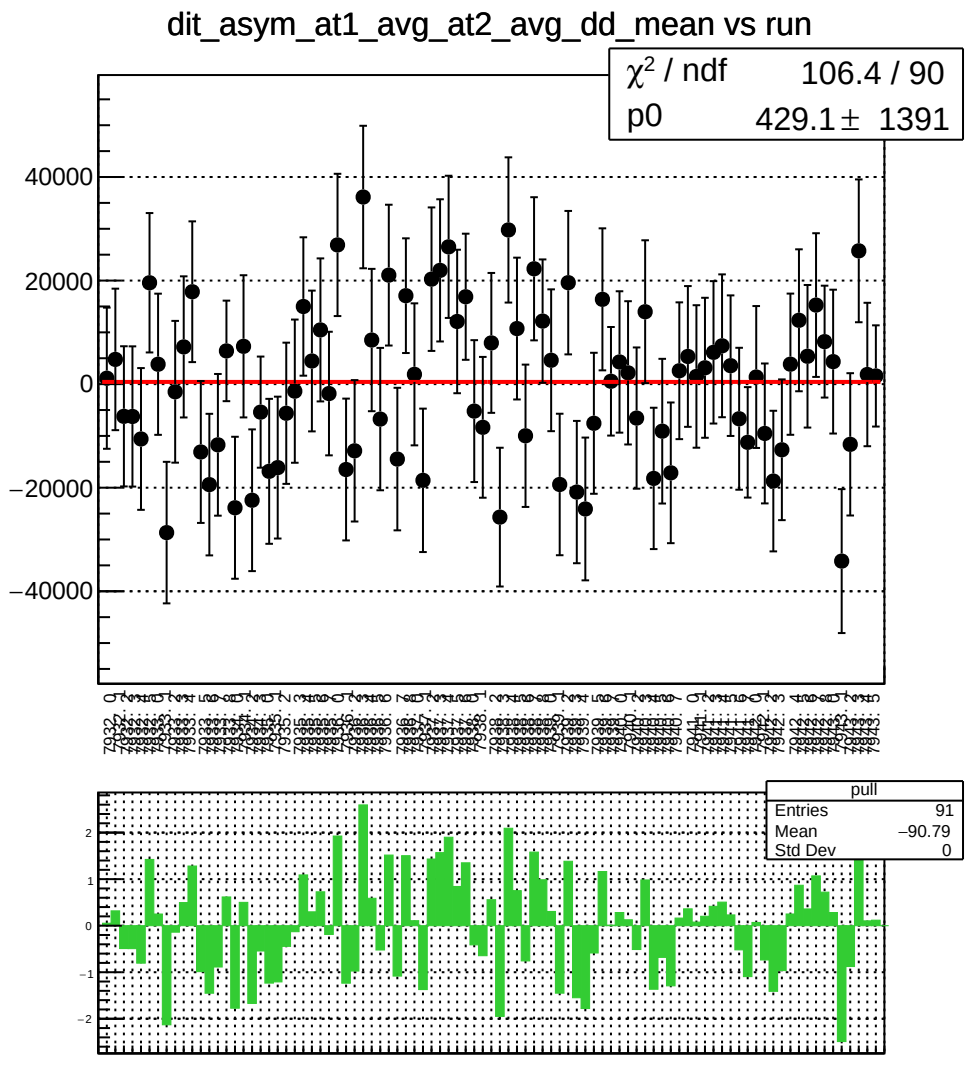
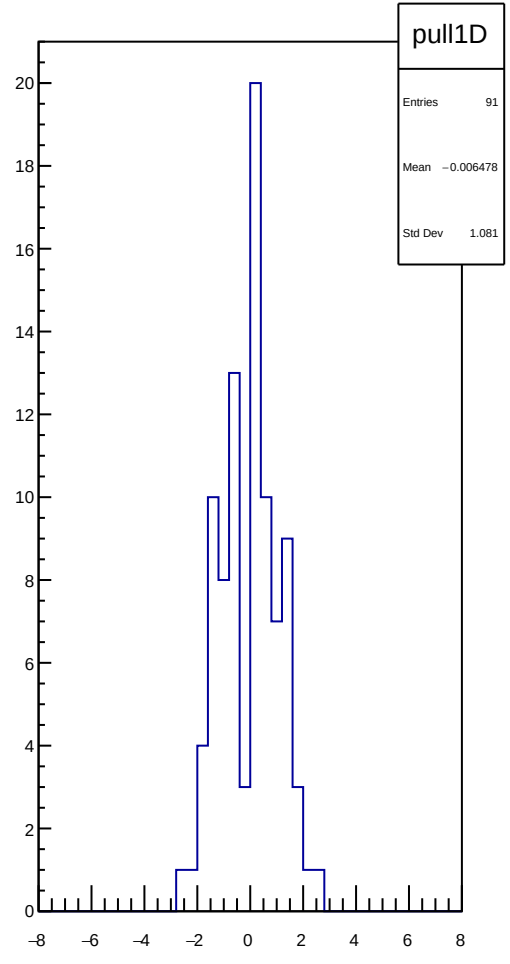
2
4
6
8

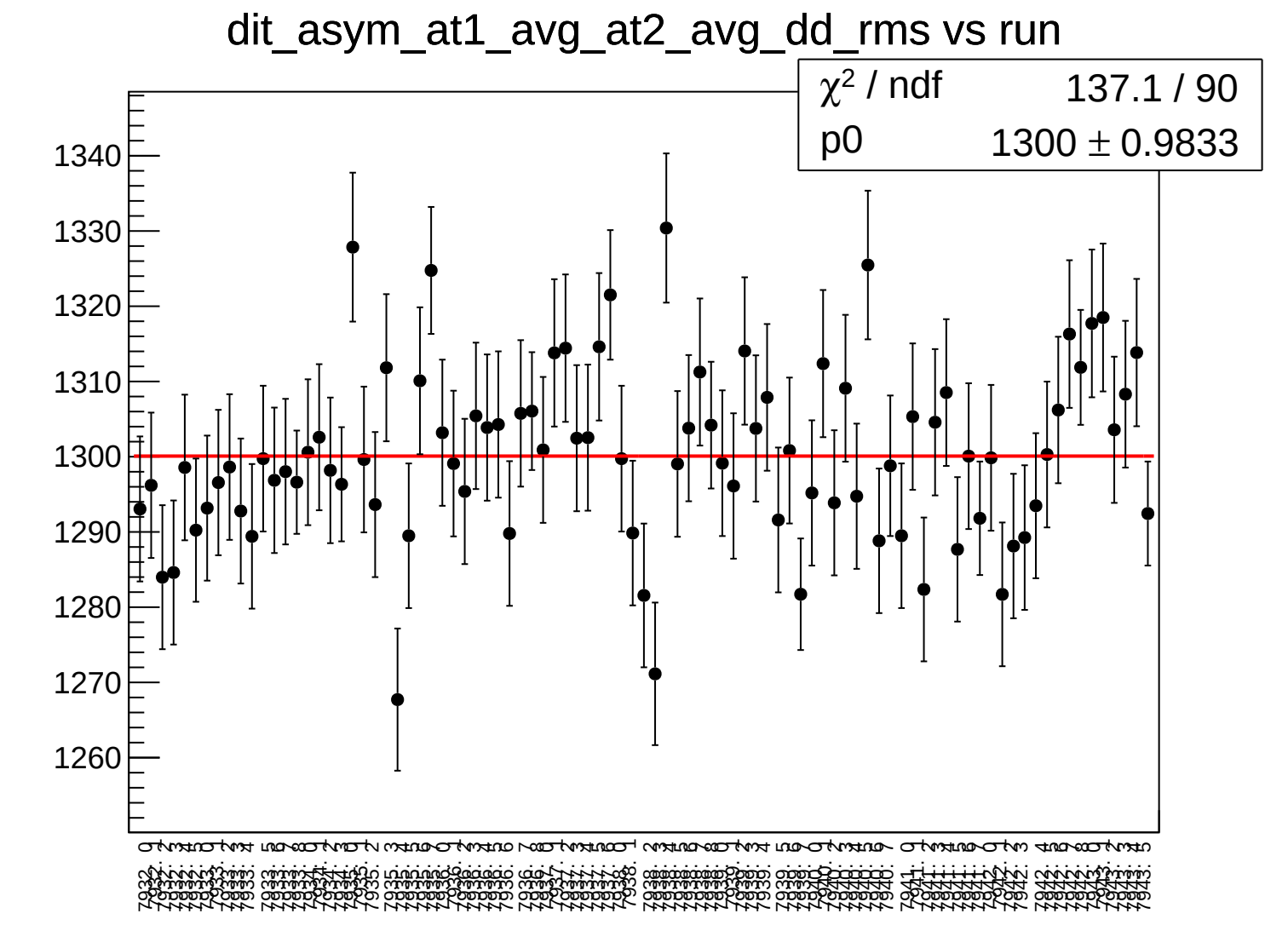

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

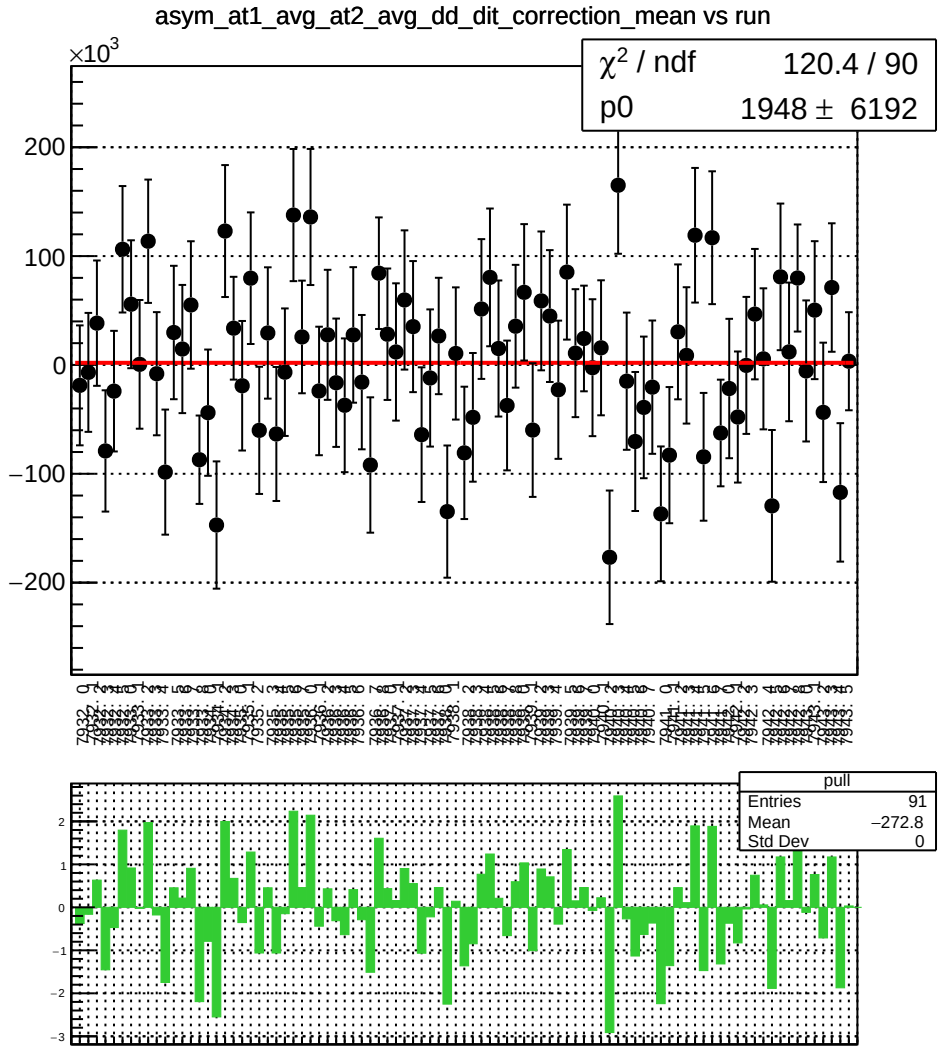

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

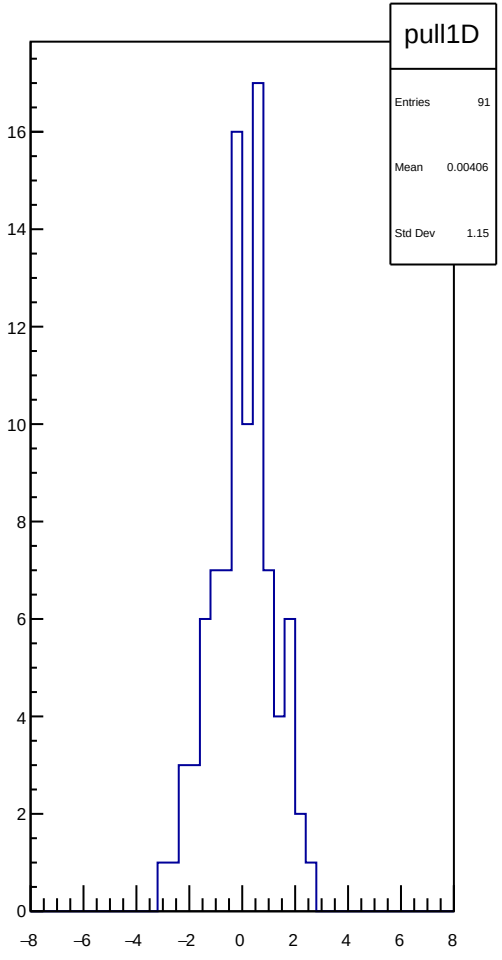

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

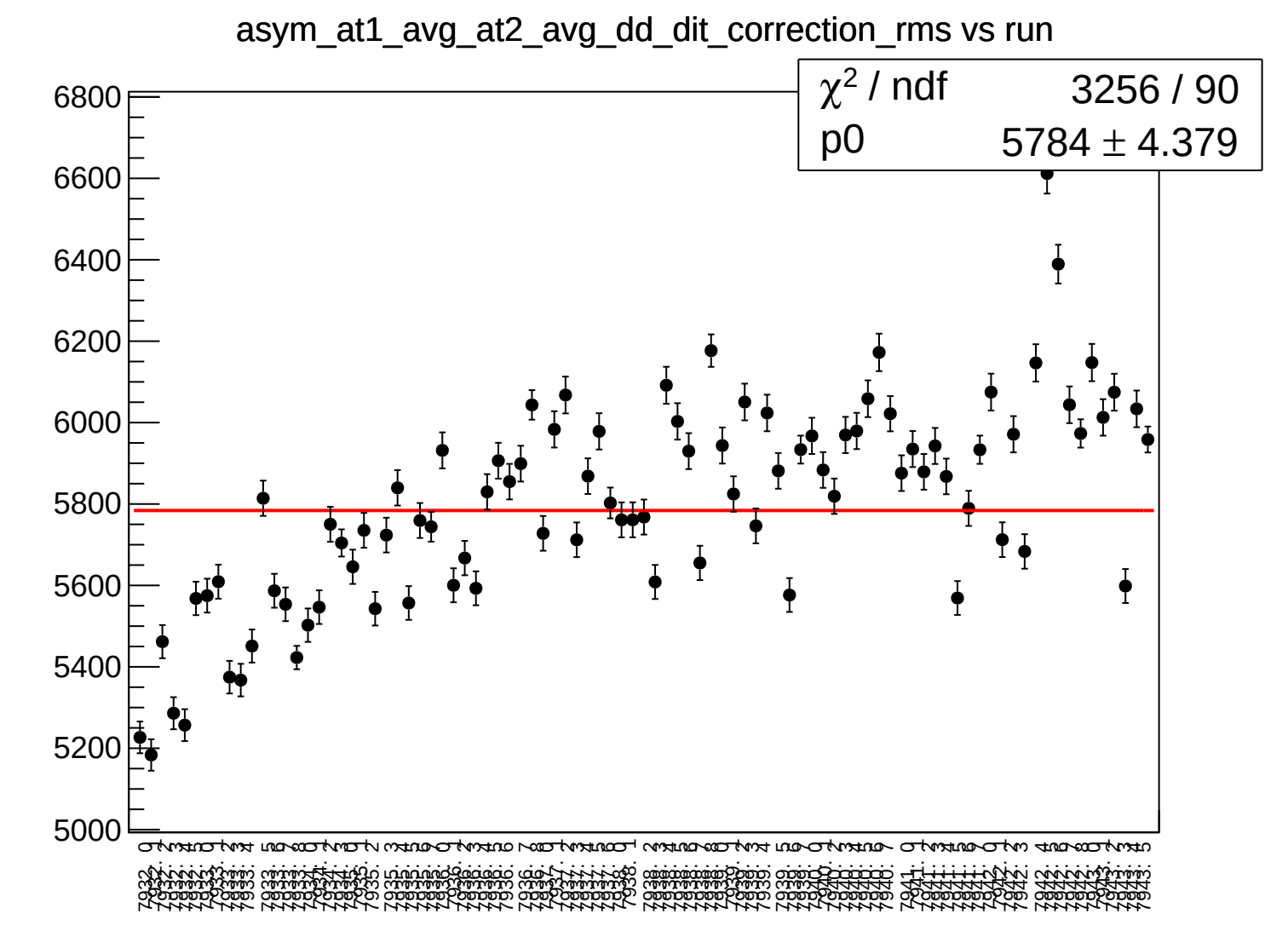

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 106.4 / 90
p0 429.1 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −90.79
Std Dev 0
2
1
0
−1
−2

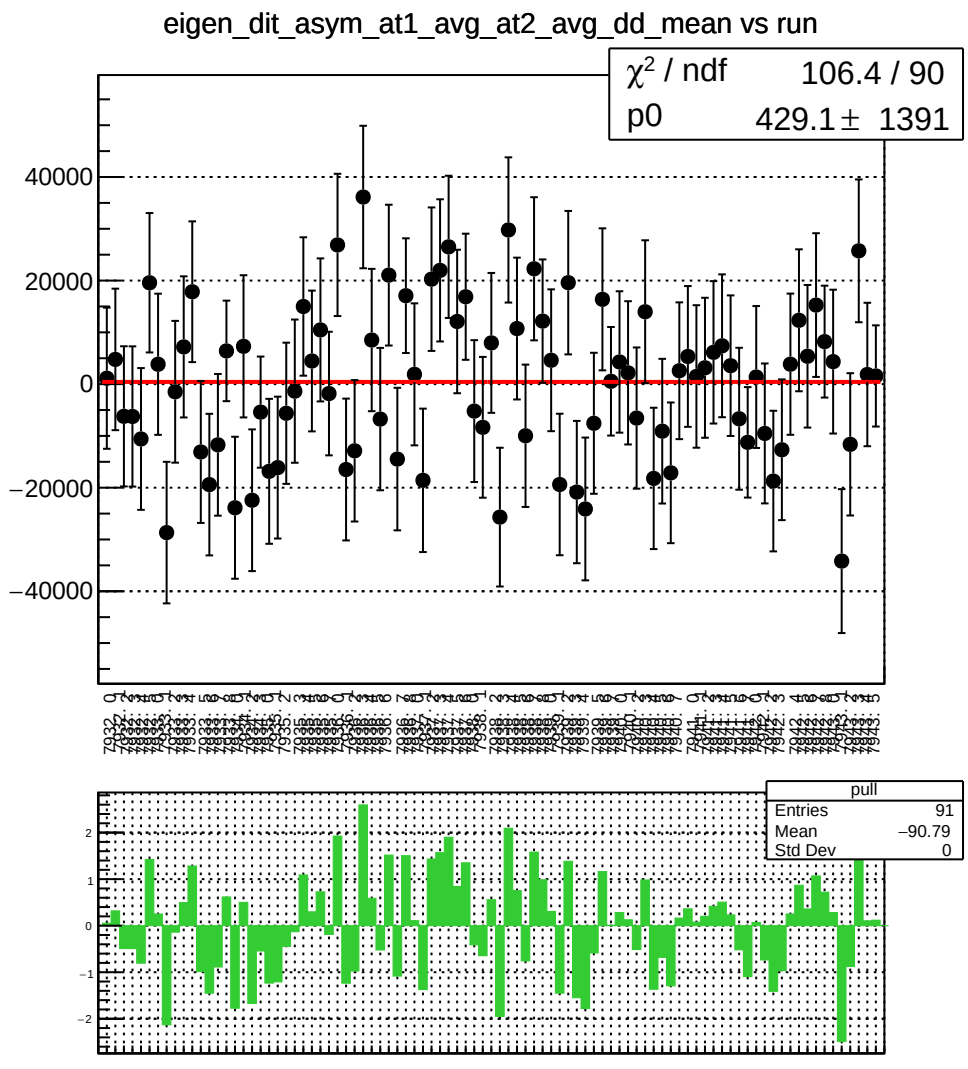

pull1D
Entries 91
Mean −0.006478
Std Dev 1.081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

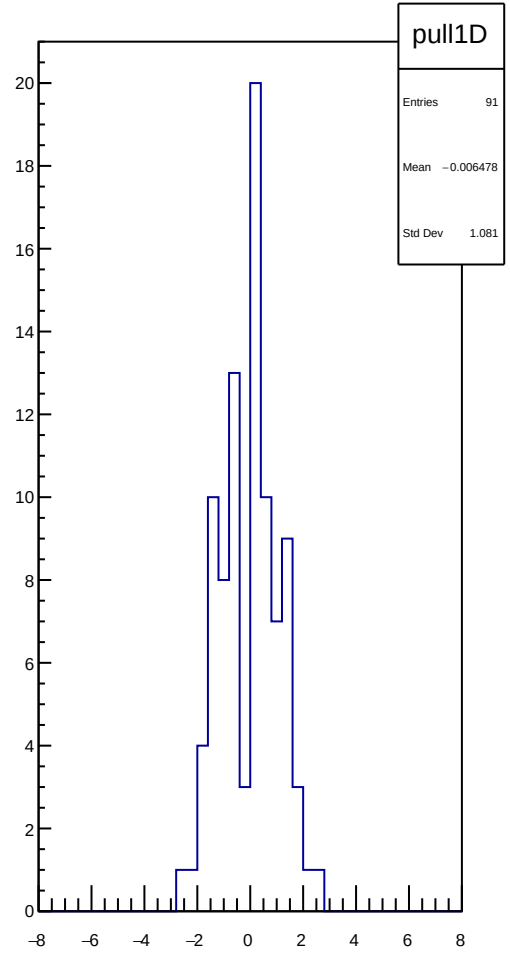

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 137.1 / 90
p0 1300 ± 0.9833
1340
1330
1320
1310
1300
1290
1280
1270
1260

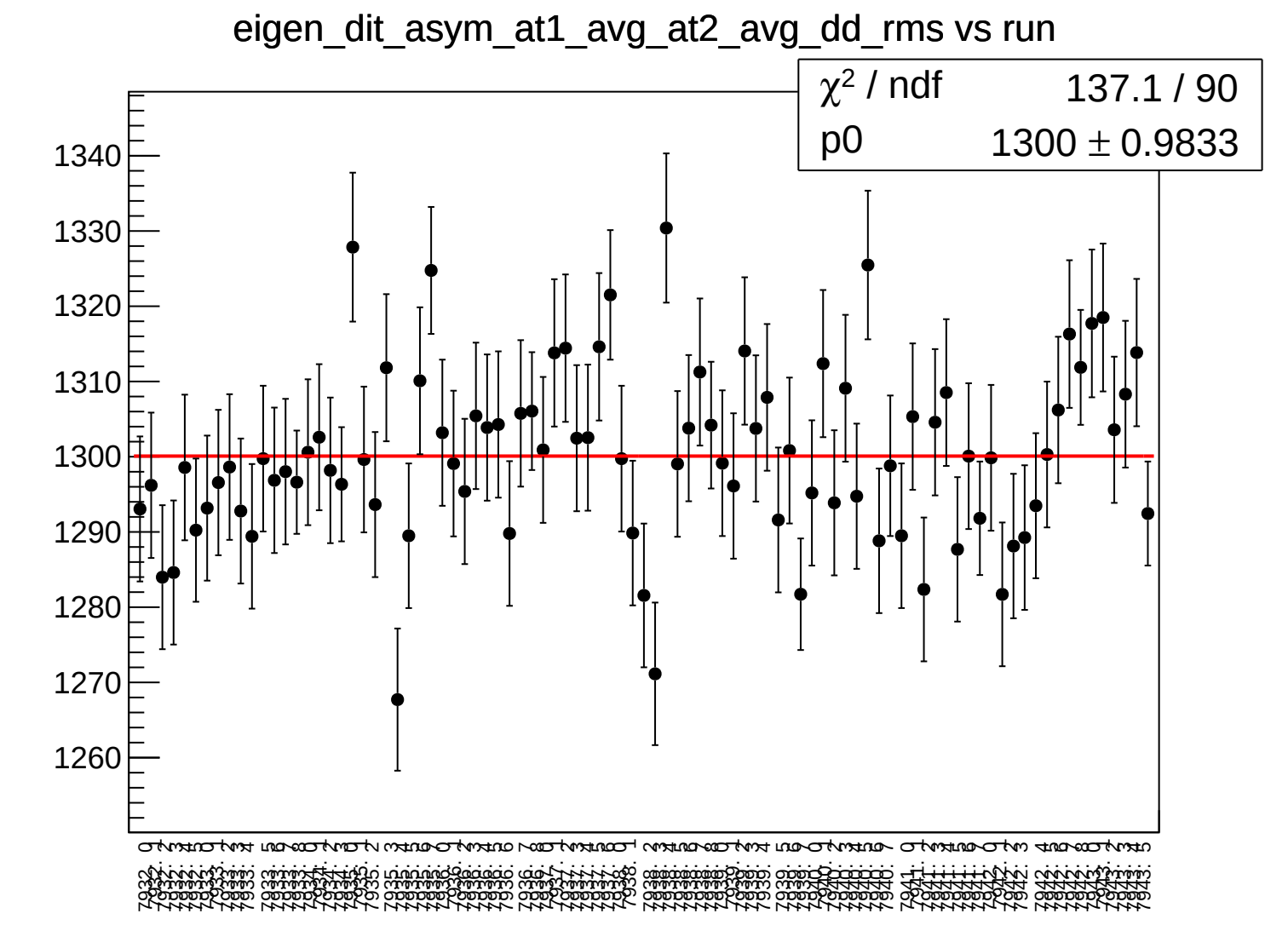

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1948 ± 6192
200
100
0
−100
−200
pull
Entries 91
Mean −272.8
Std Dev 0
2
1
0
−1
−2
−3

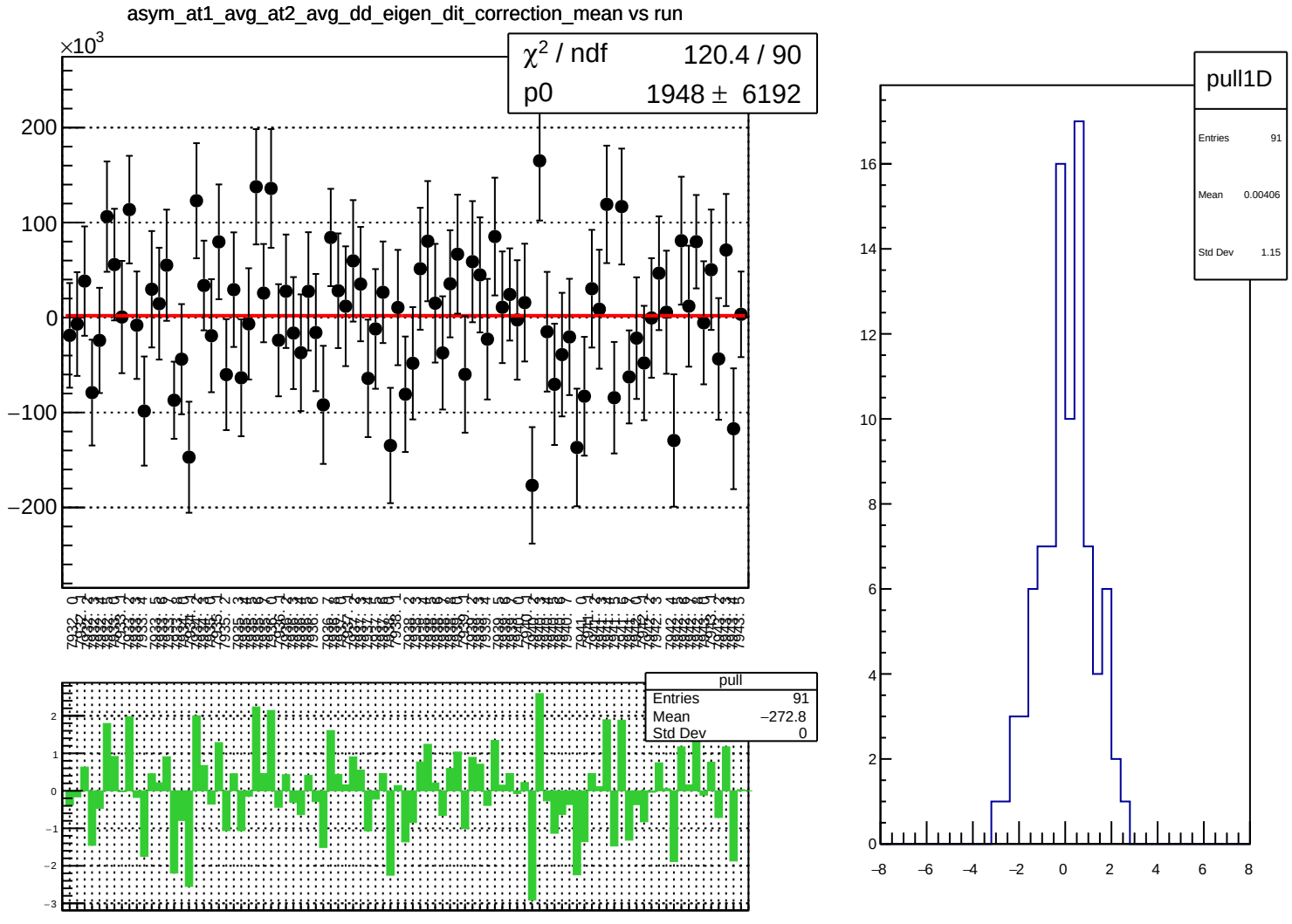

pull1D
Entries 91
Mean 0.00406
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

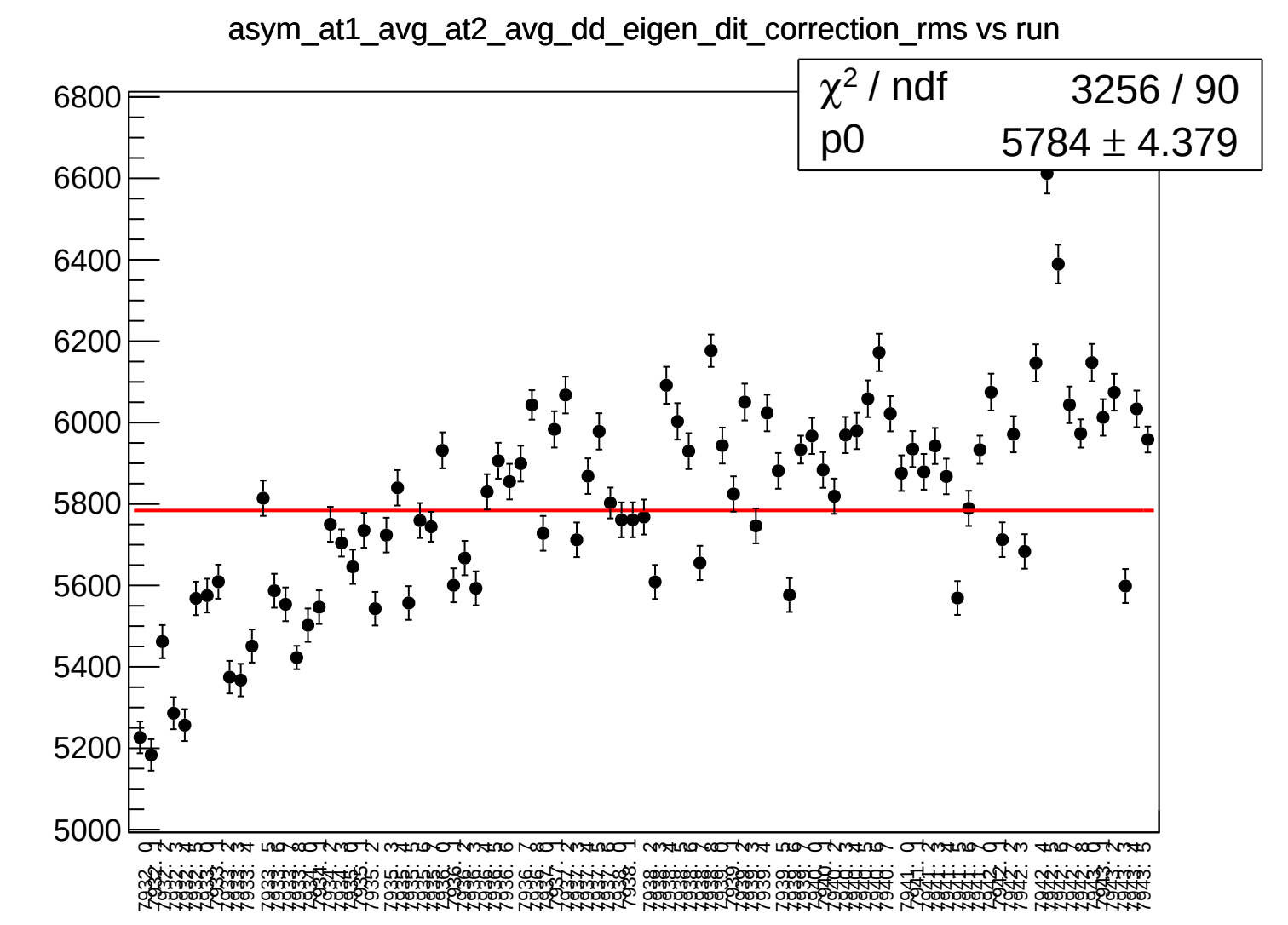

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3256 / 90
p0 5784 ± 4.379
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

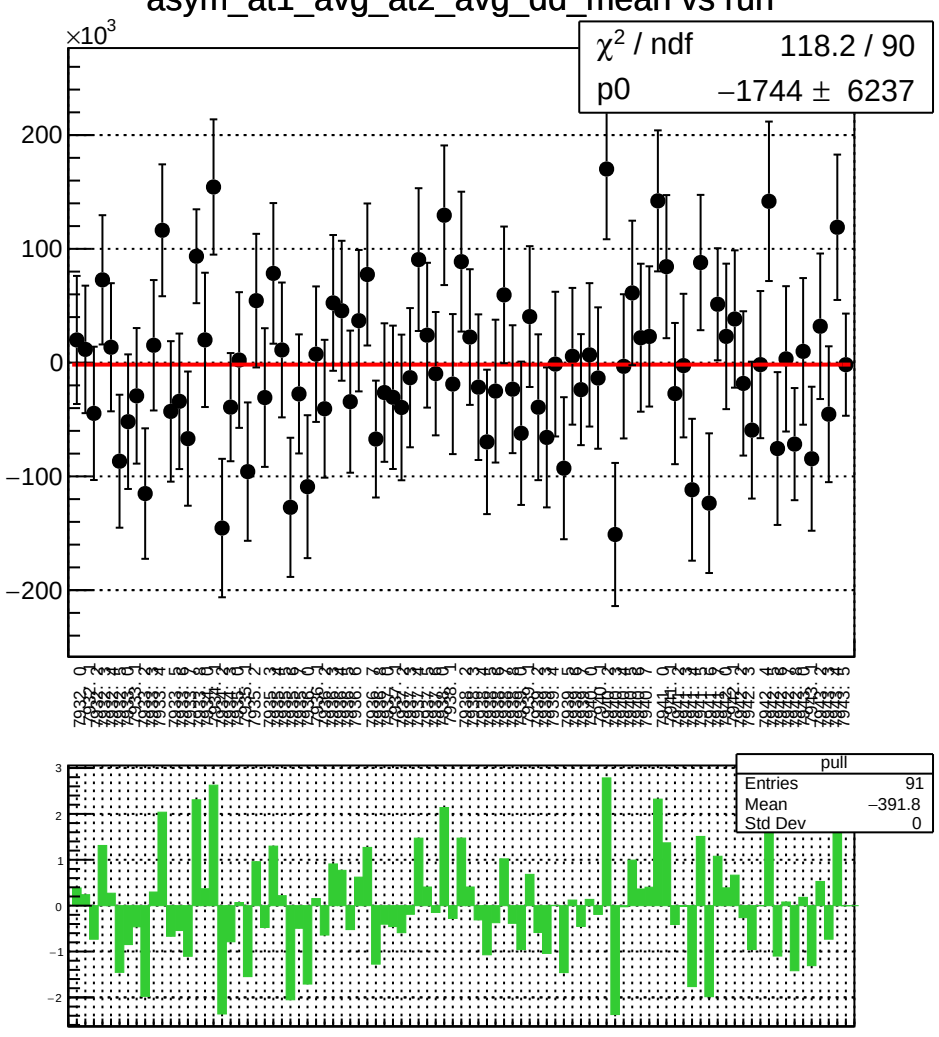

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 106.4 / 90
p0 429.1 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −90.79
Std Dev 0
2
1
0
−1
−2

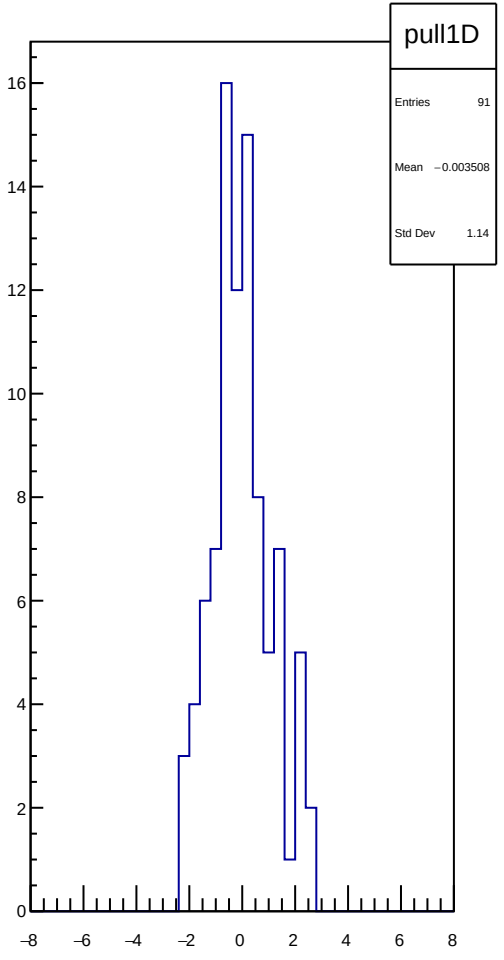

pull1D
Entries 91
Mean −0.006478
Std Dev 1.081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

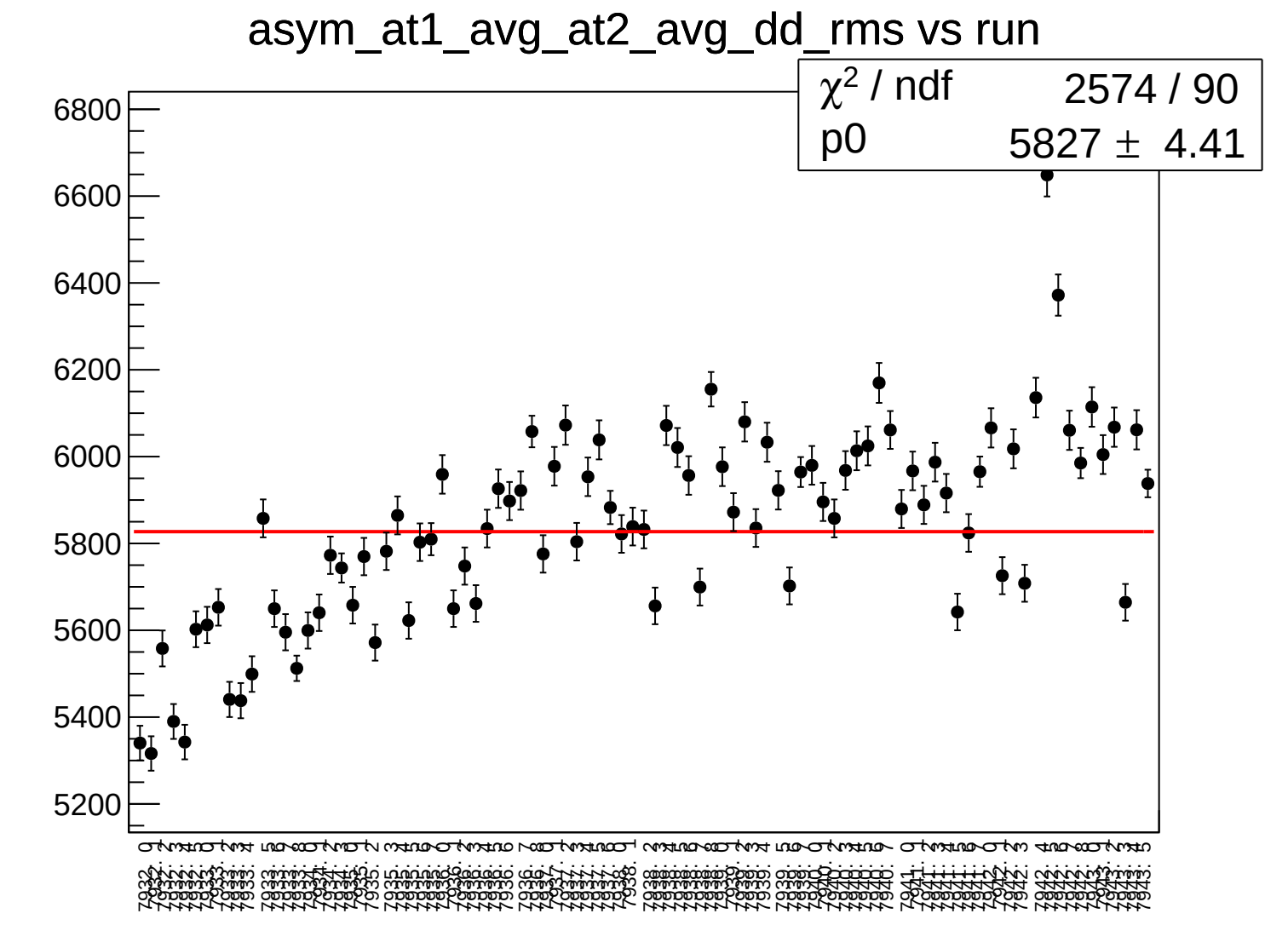

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 137.1 / 90
p0 1300 ± 0.9833
1340
1330
1320
1310
1300
1290
1280
1270
1260

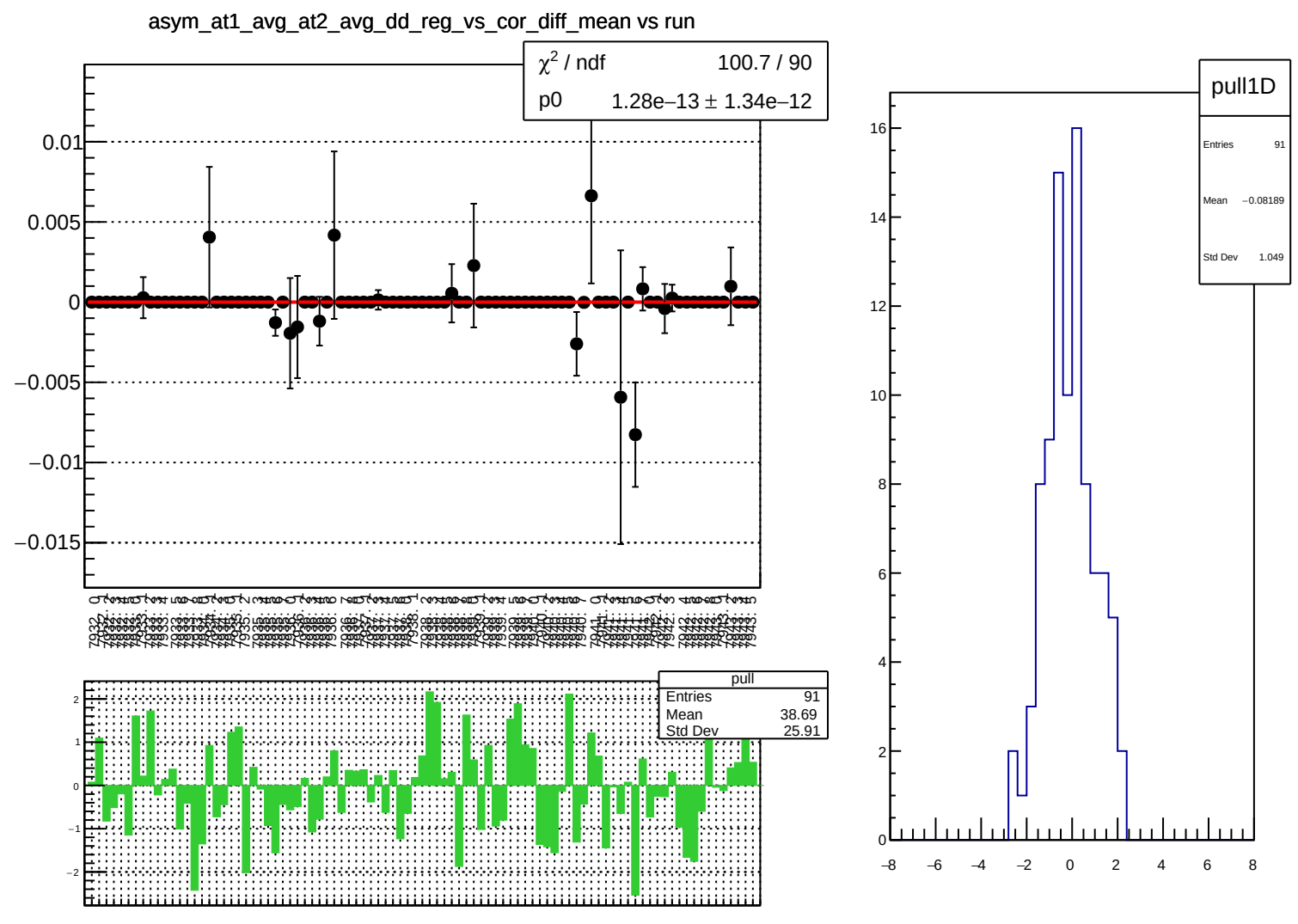

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1948 ± 6192
200
100
0
−100
−200
pull
Entries 91
Mean −272.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.00406
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3256 / 90
p0 5784 ± 4.379
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000


asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 118.2 / 90
p0 −1744 ± 6237
200
100
0
−100
−200
pull
Entries 91
Mean −391.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.003508
Std Dev 1.14
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 2574 / 90
p0 5827 ± 4.41
6800
6600
6400
6200
6000
5800
5600
5400
5200


asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 90
p0 1.28e−13 ± 1.34e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 38.69
Std Dev 25.91
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.08189
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
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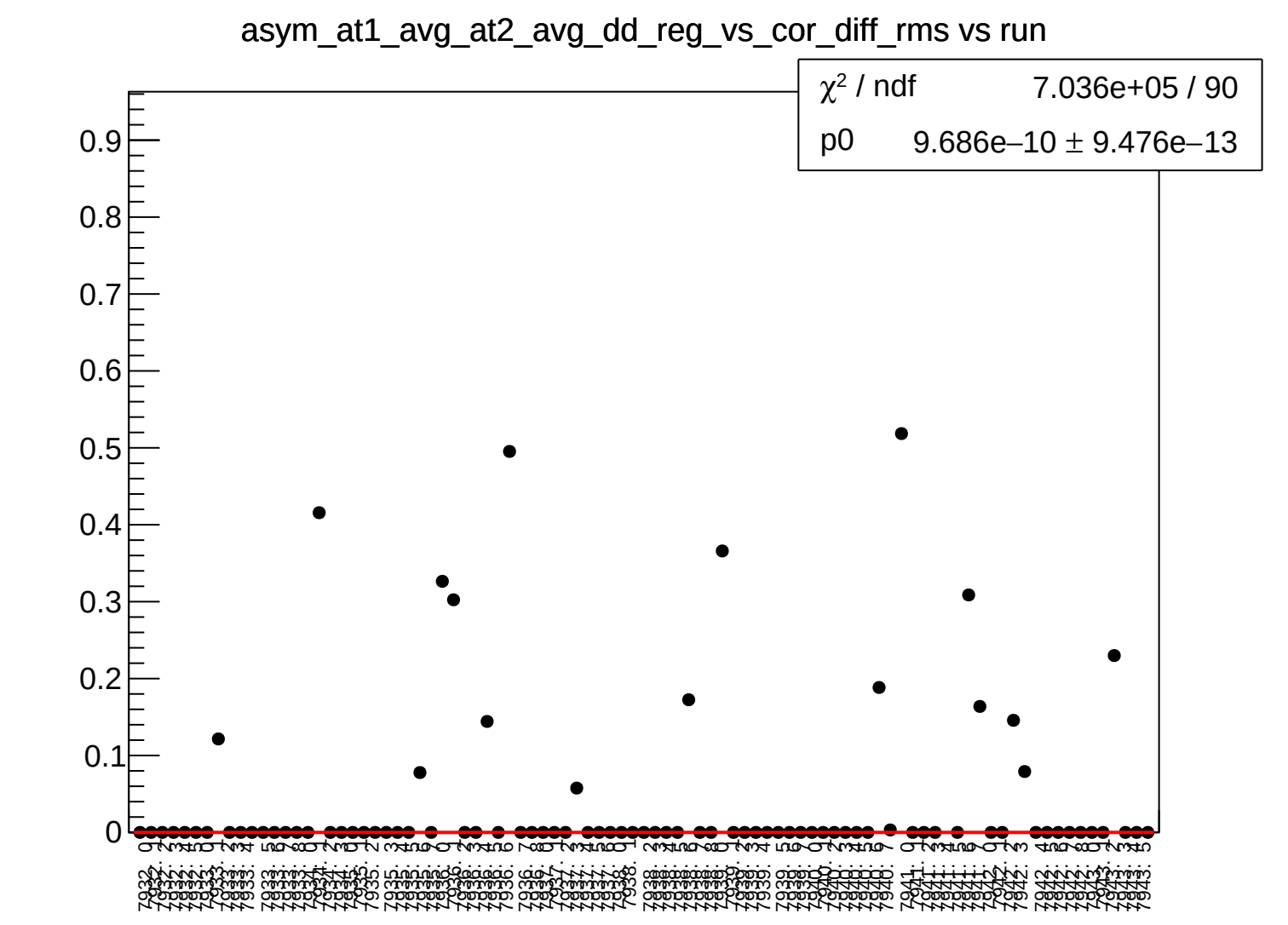
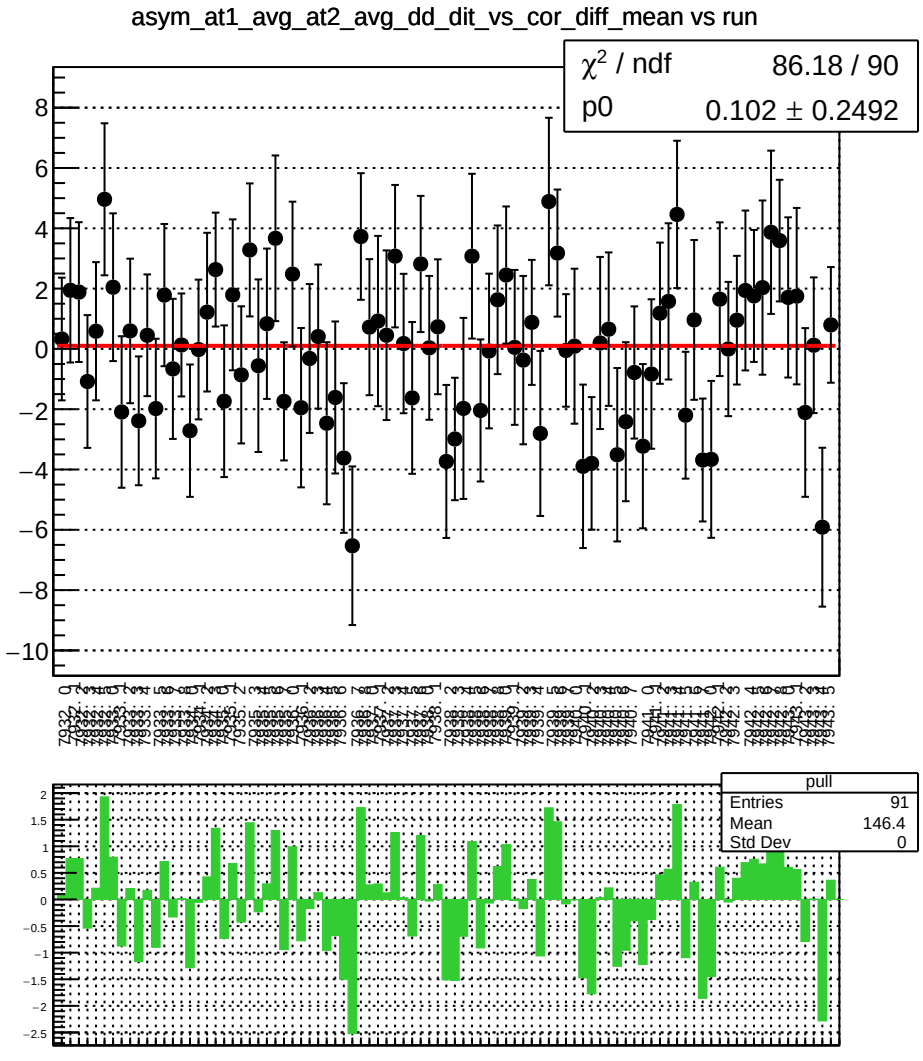
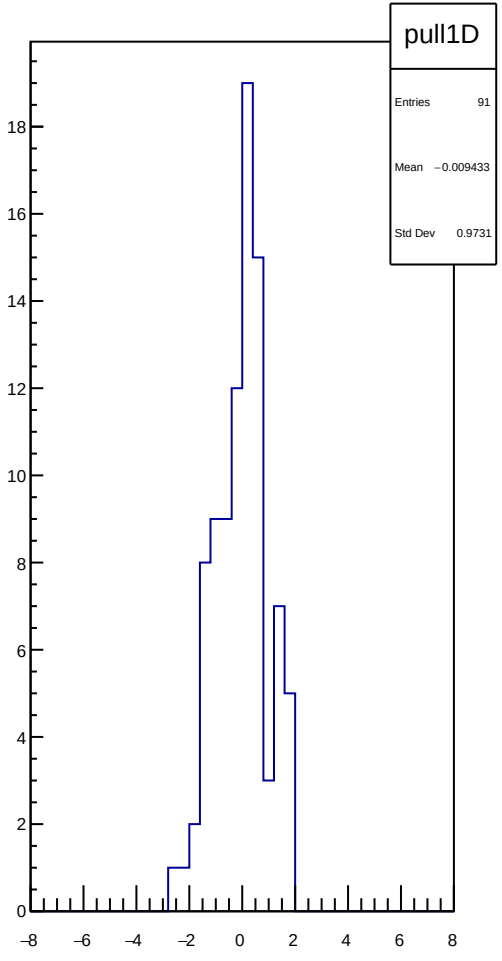
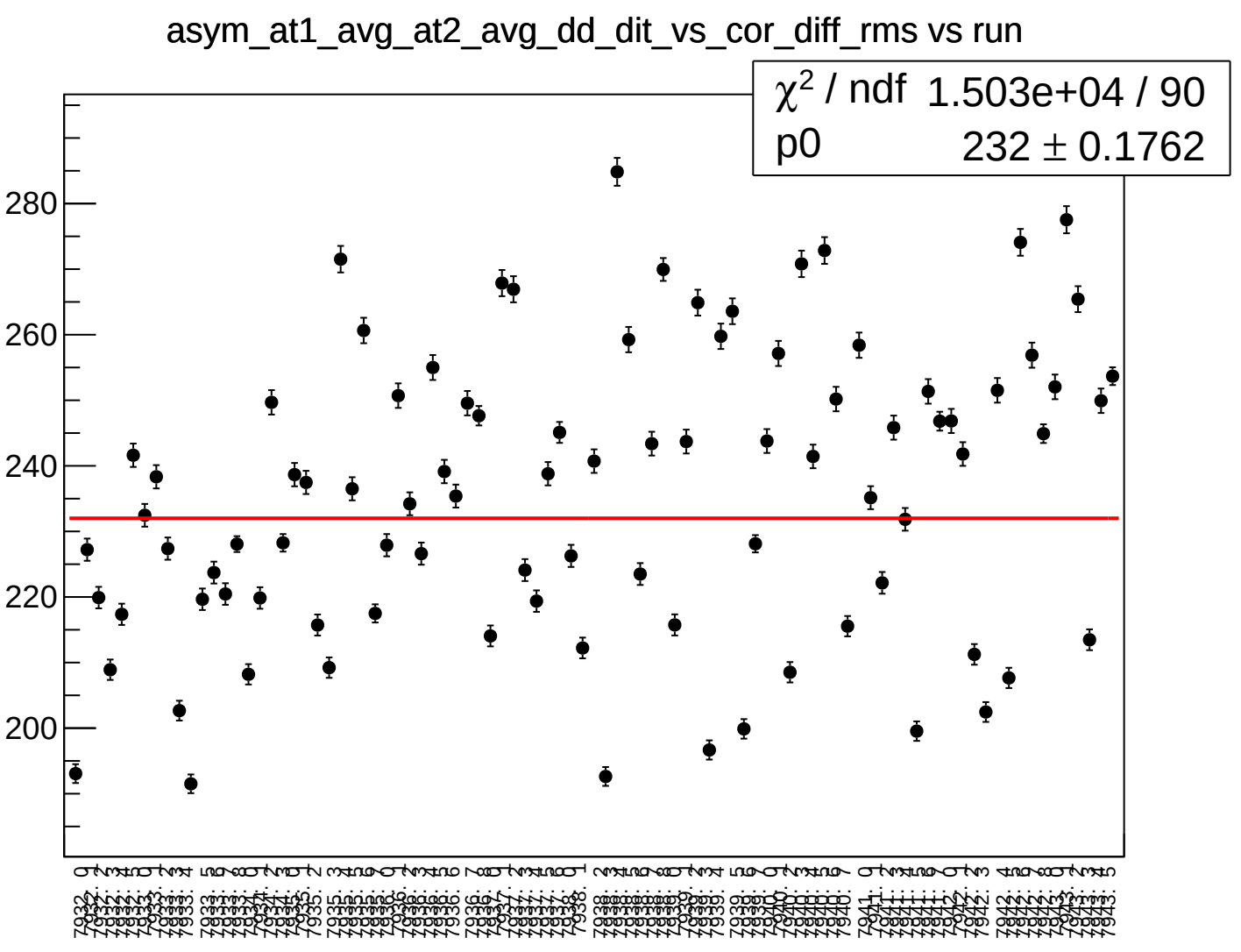
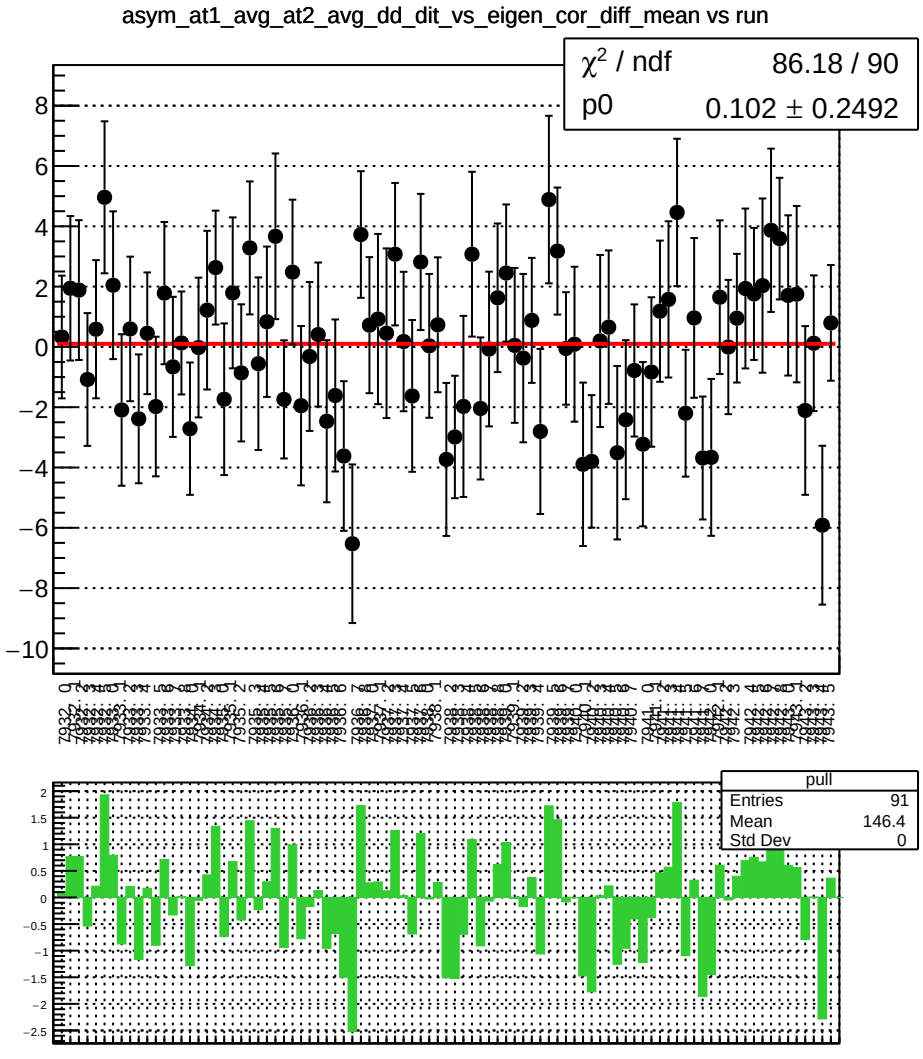
−4
−2
0
2
4
6
8

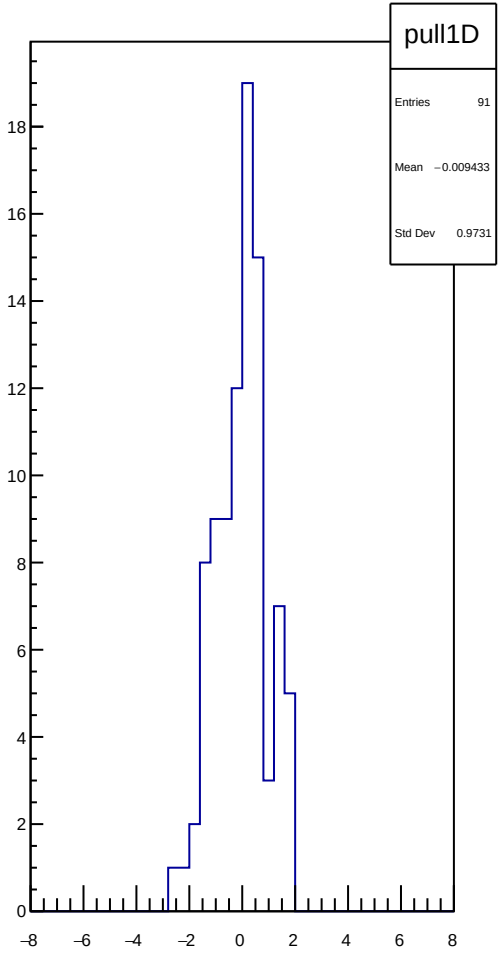

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.036e+05 / 90
p0 9.686e−10 ± 9.476e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

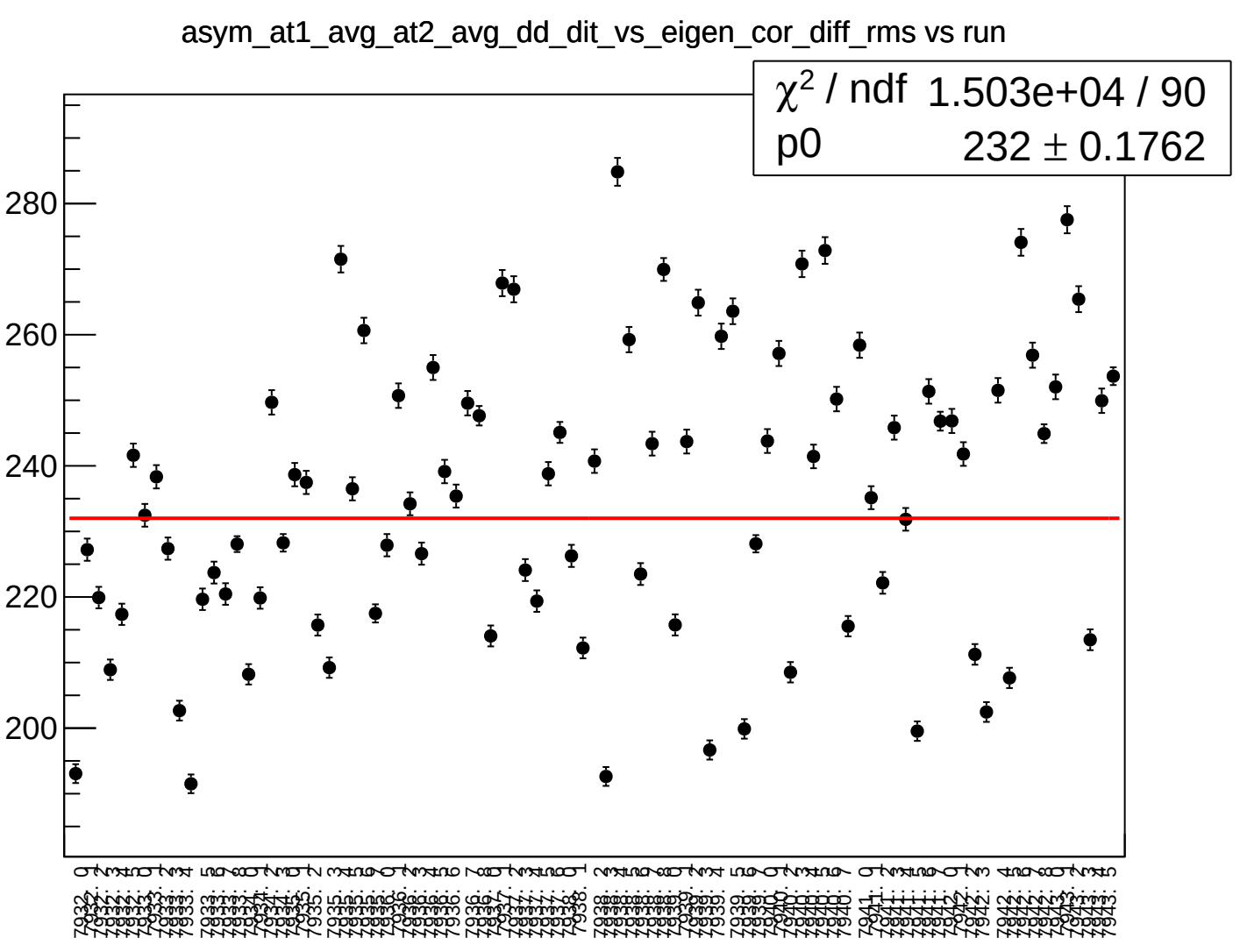

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

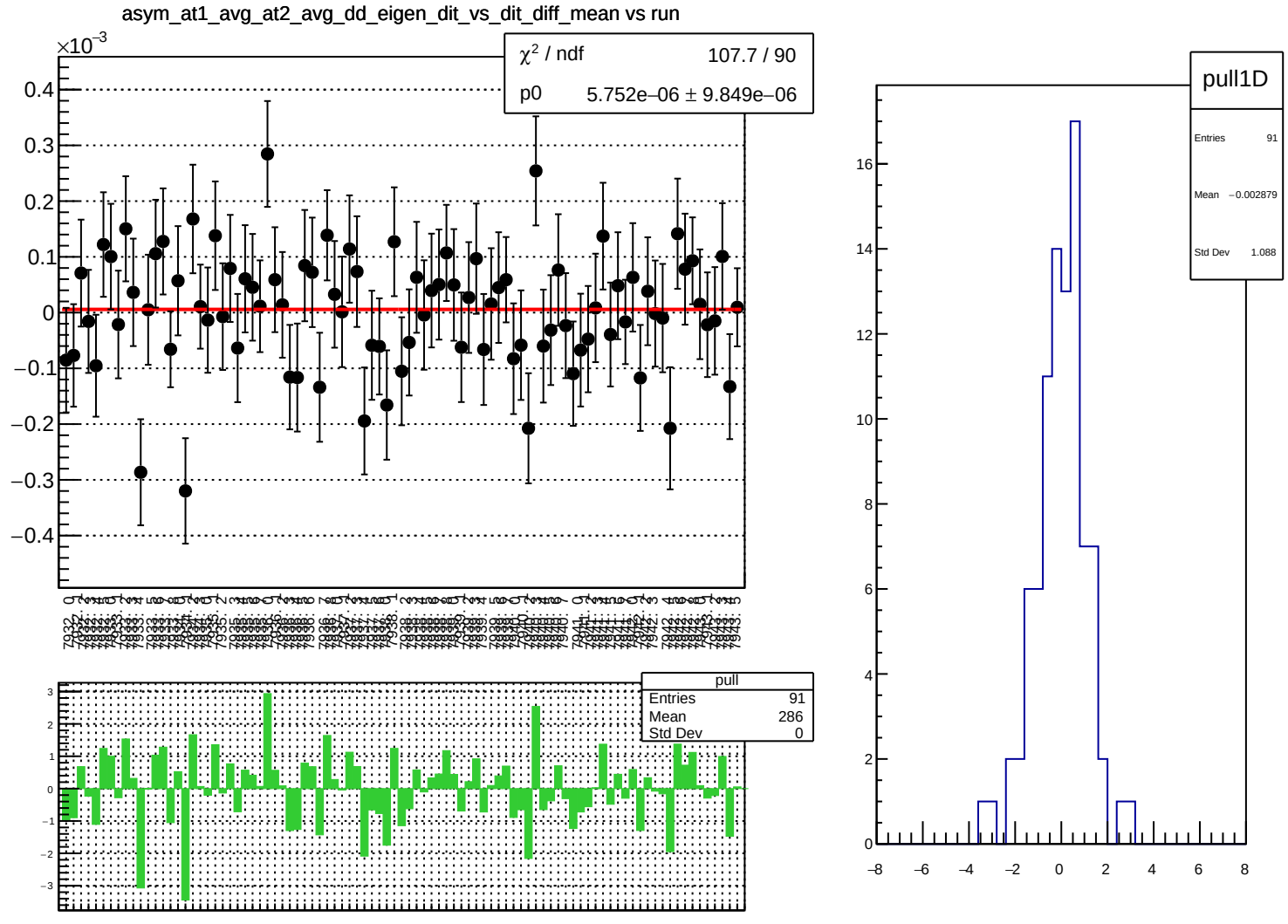

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

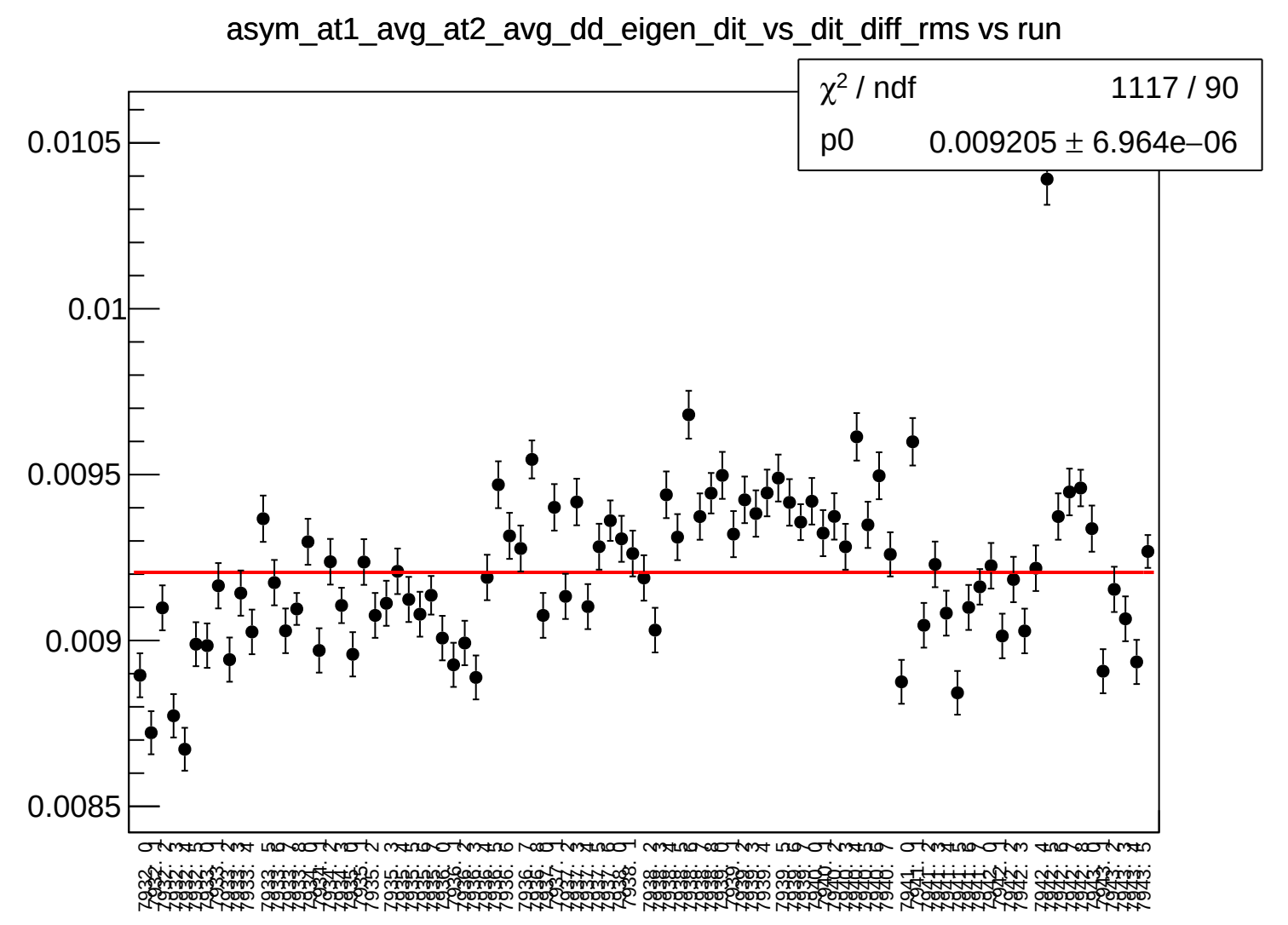

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

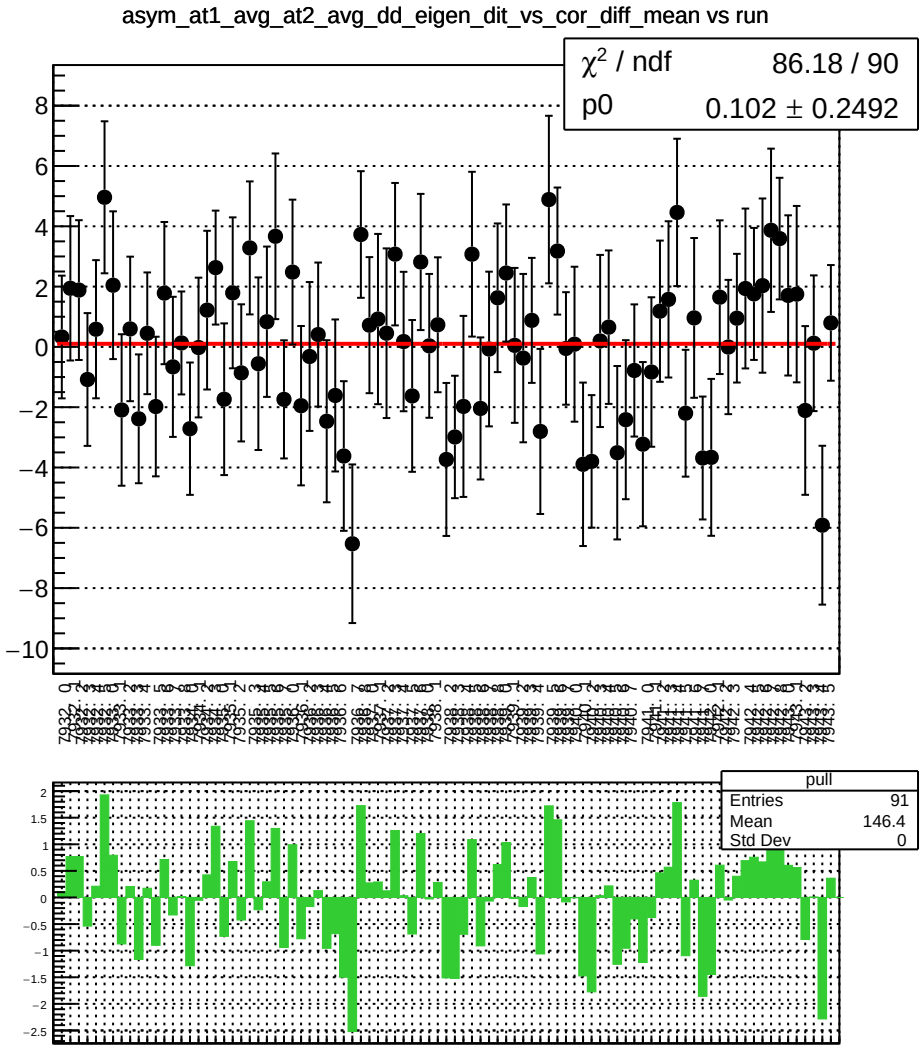

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

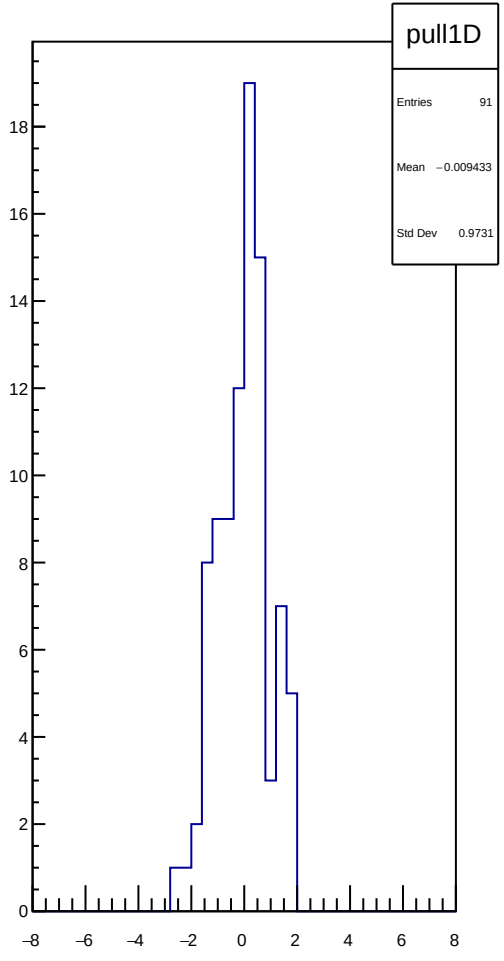

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

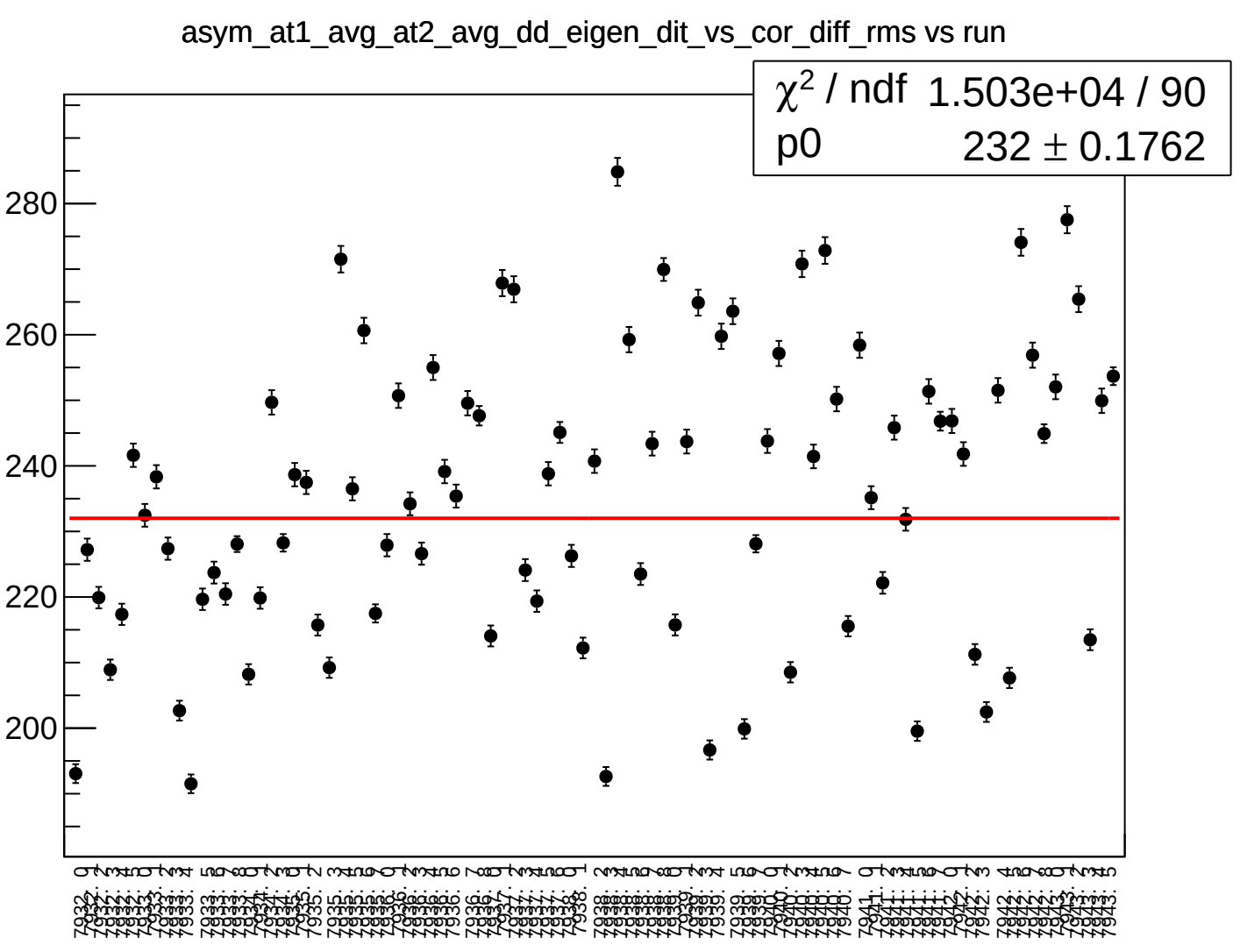

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

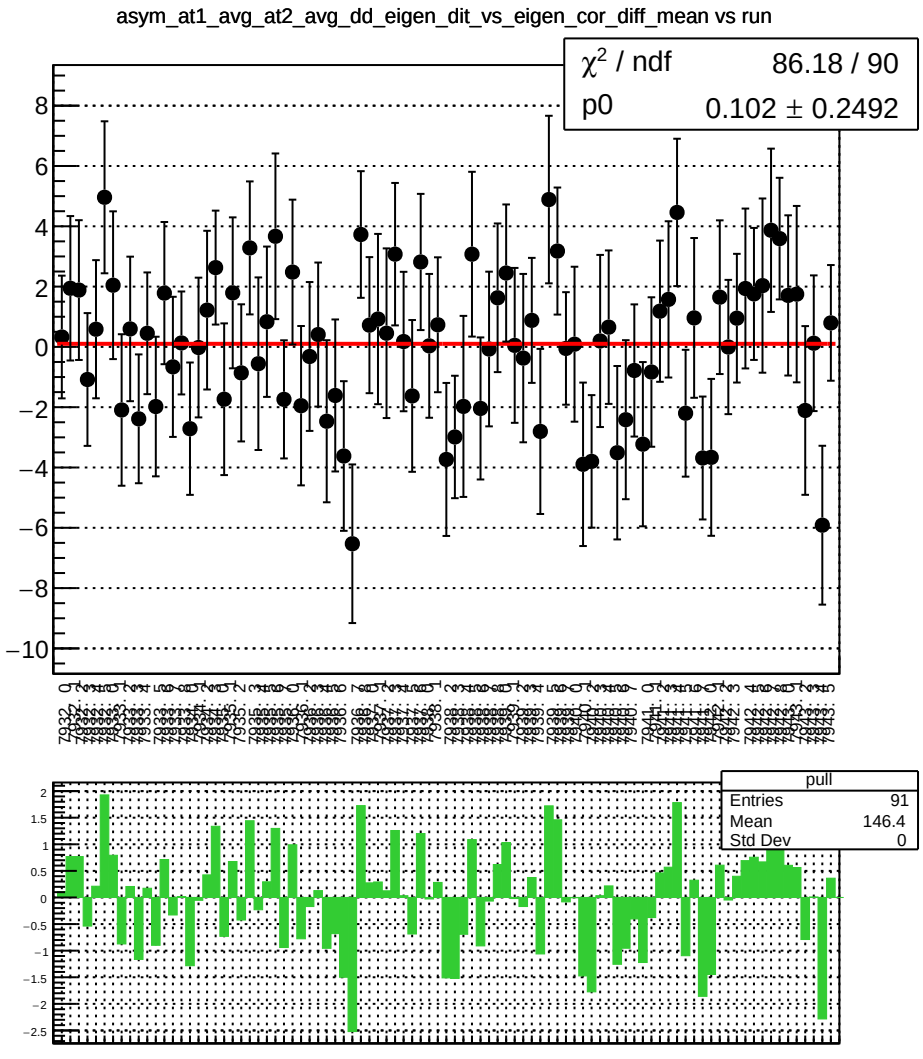

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.7 / 90
p0 5.752e−06 ± 9.849e−06
pull
Entries 91
Mean 286
Std Dev 0
pull1D
Entries 91
Mean −0.002879
Std Dev 1.088

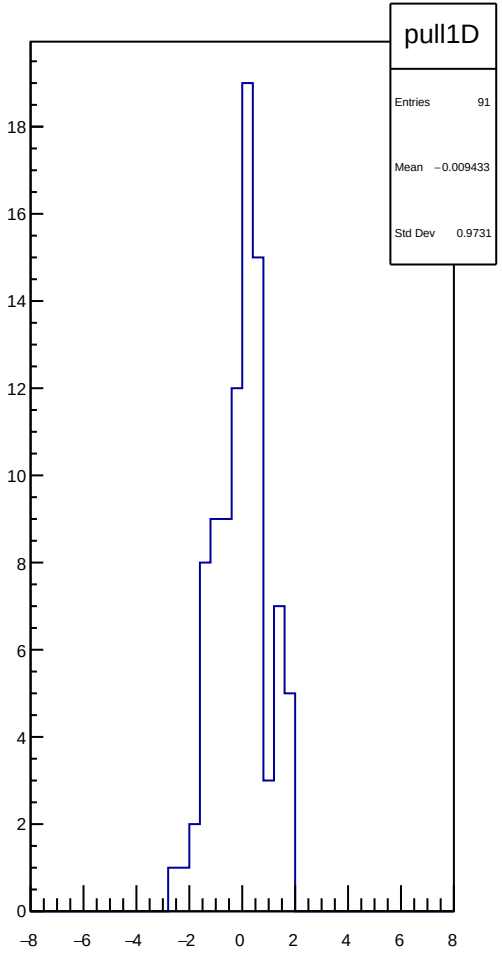

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1117 / 90
p0 0.009205 ± 6.964e−06
0.0105
0.01
0.0095
0.009
0.0085

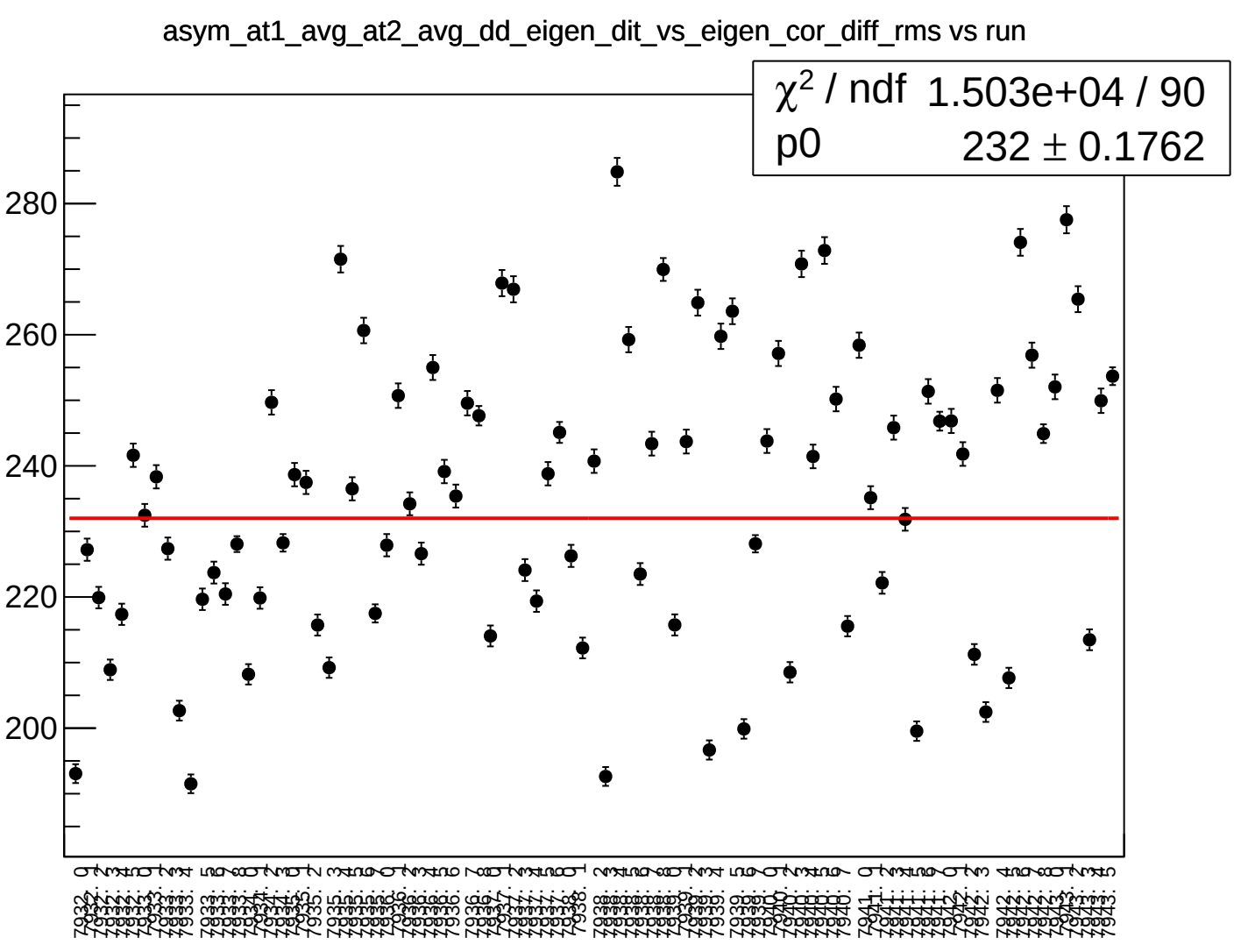

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

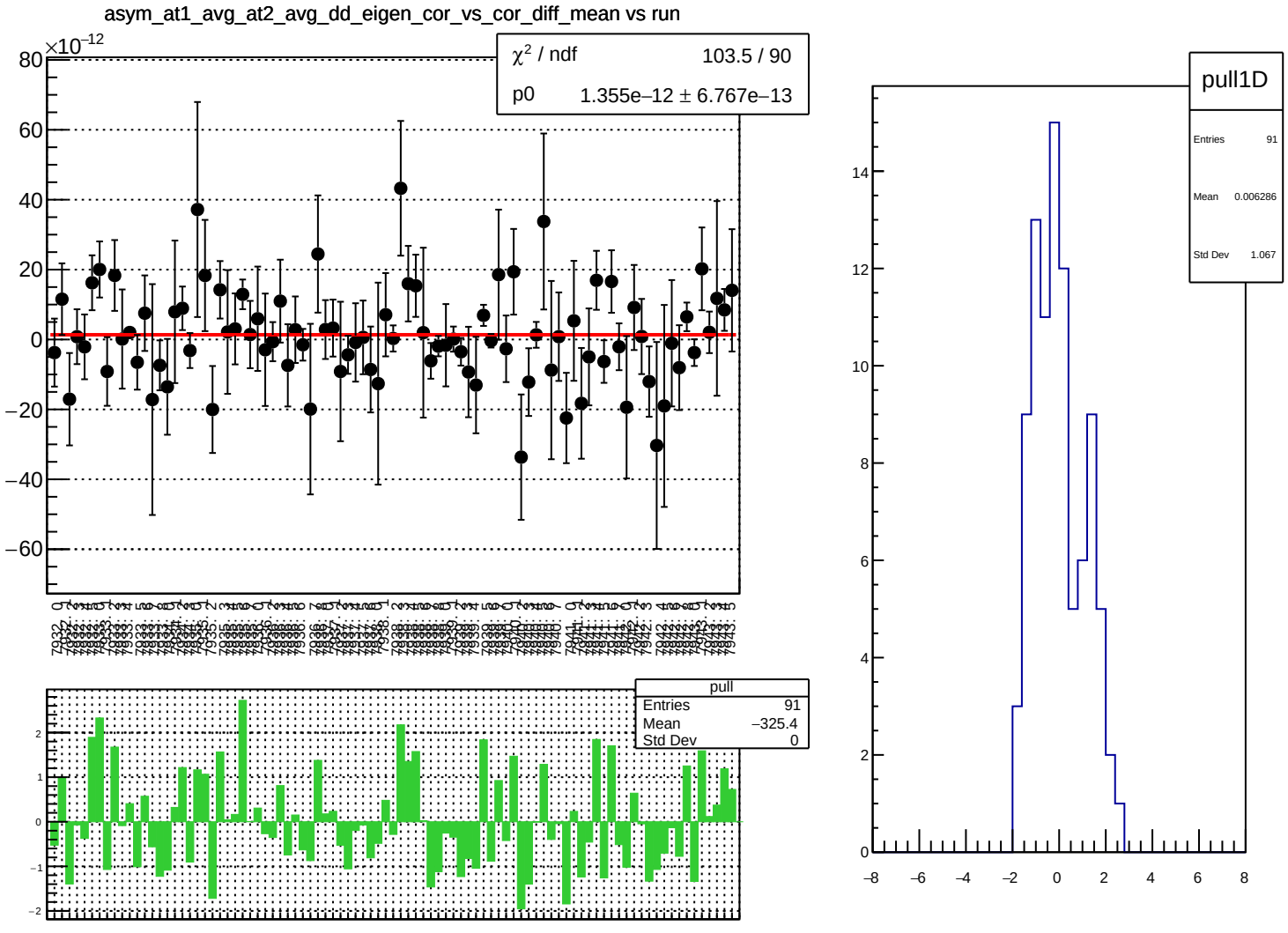

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

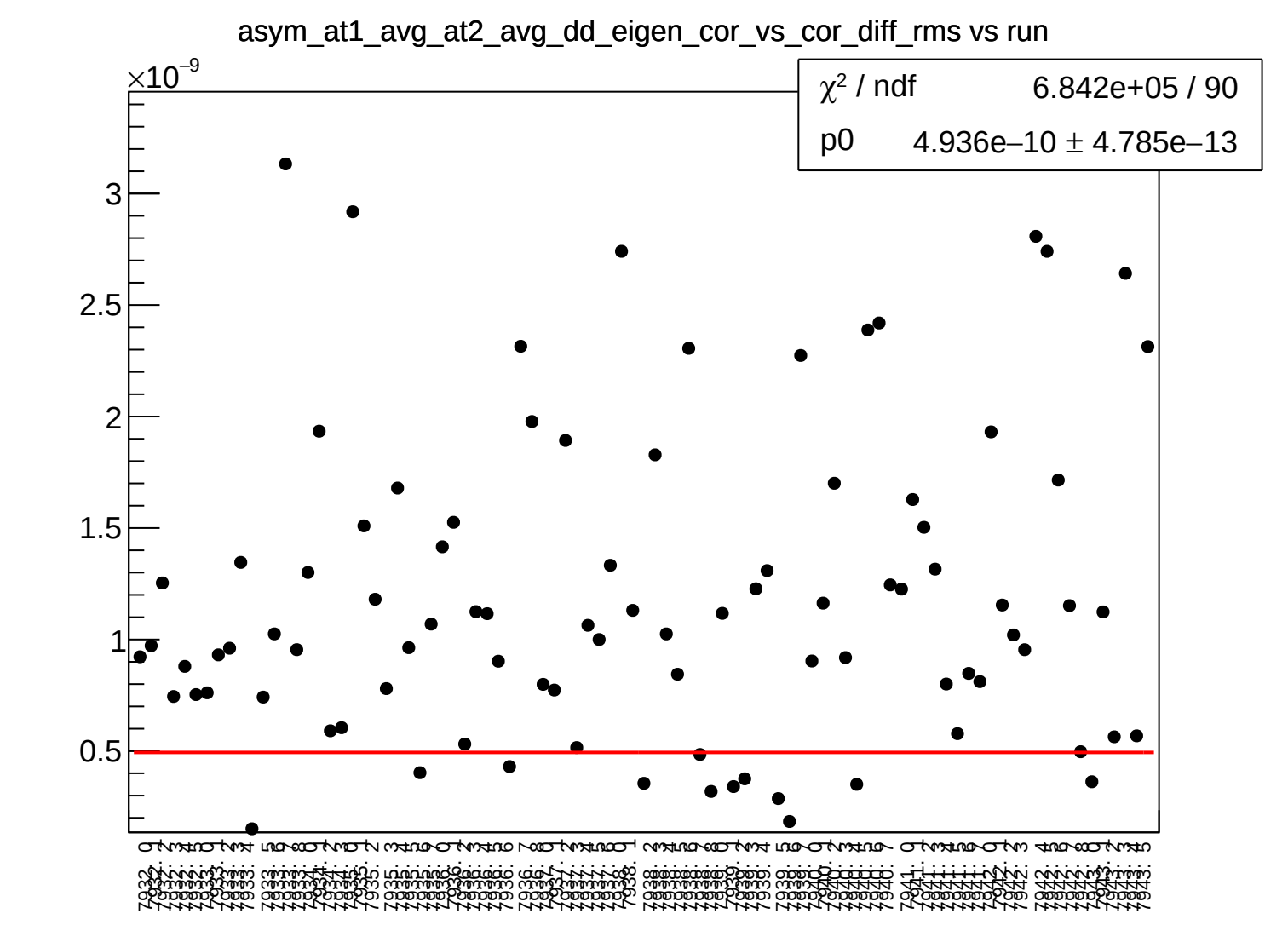

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

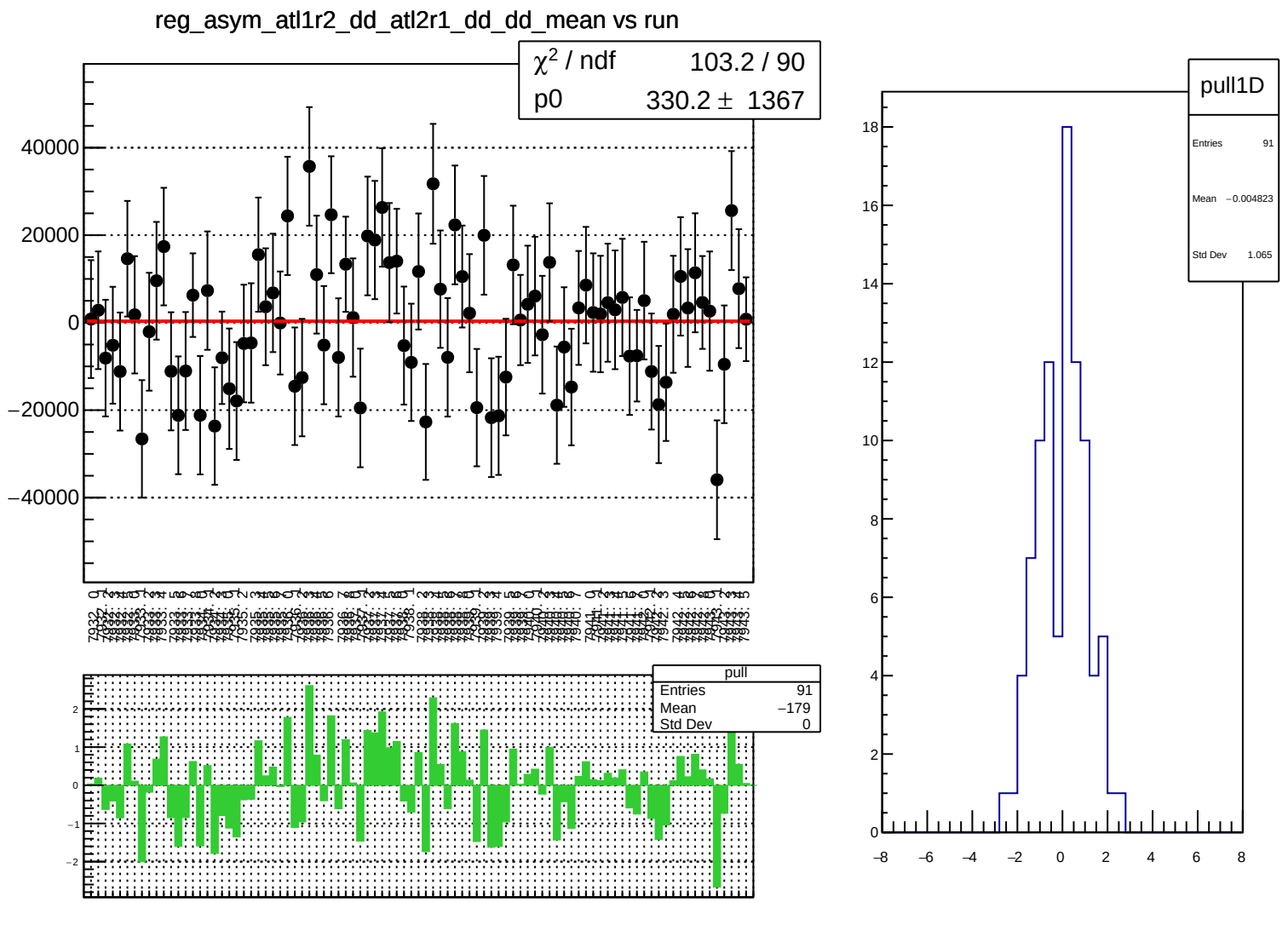

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

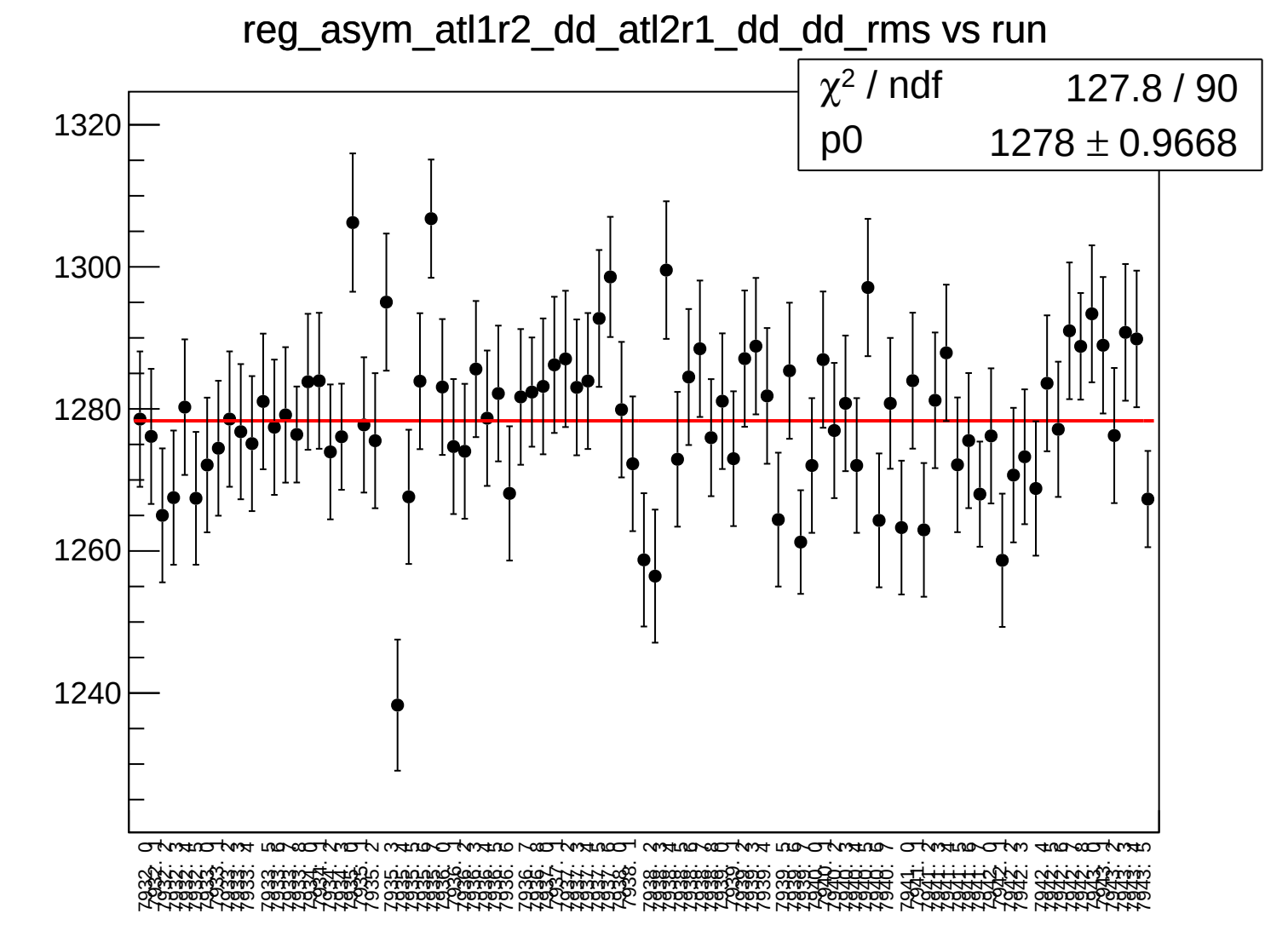

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

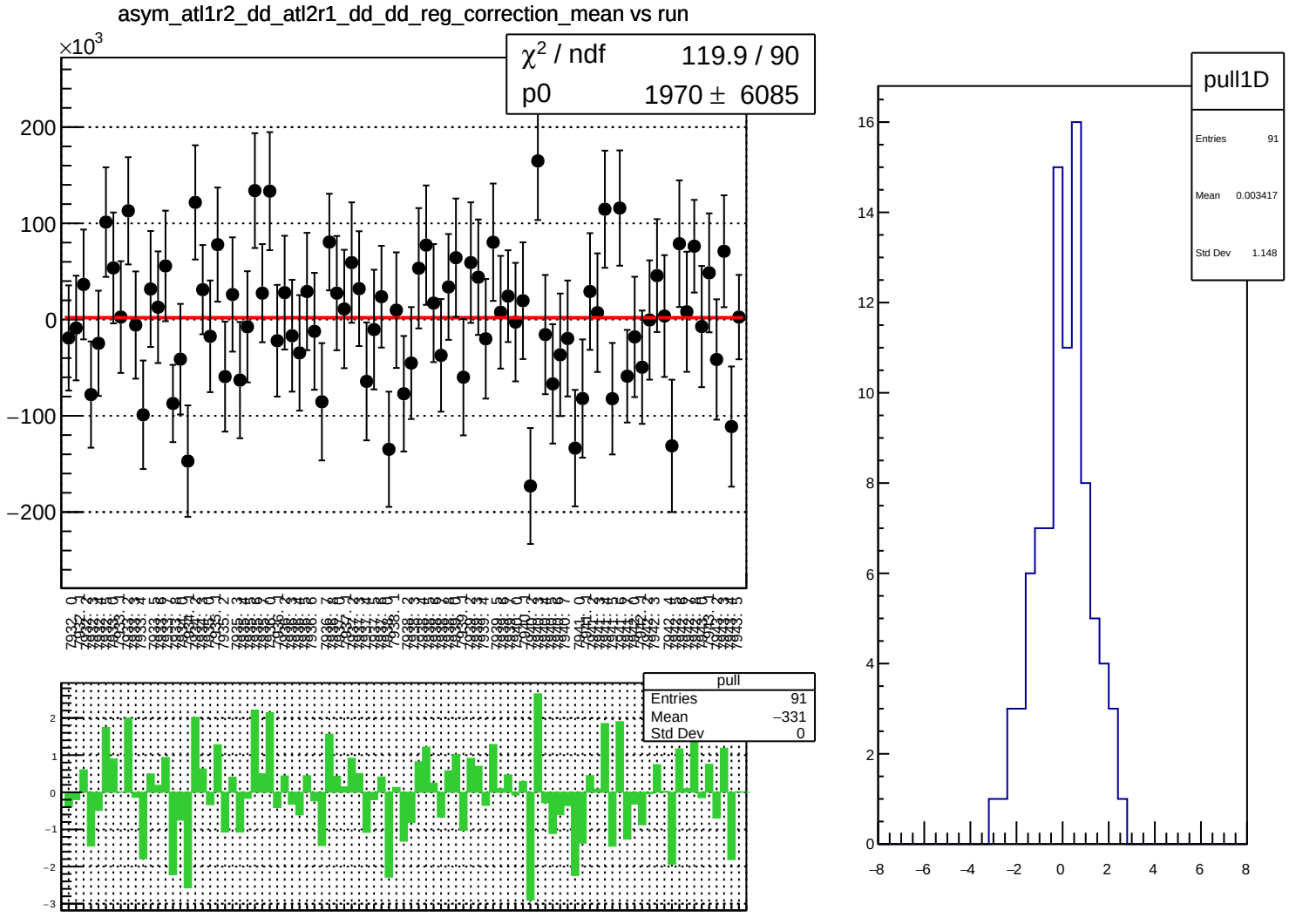

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

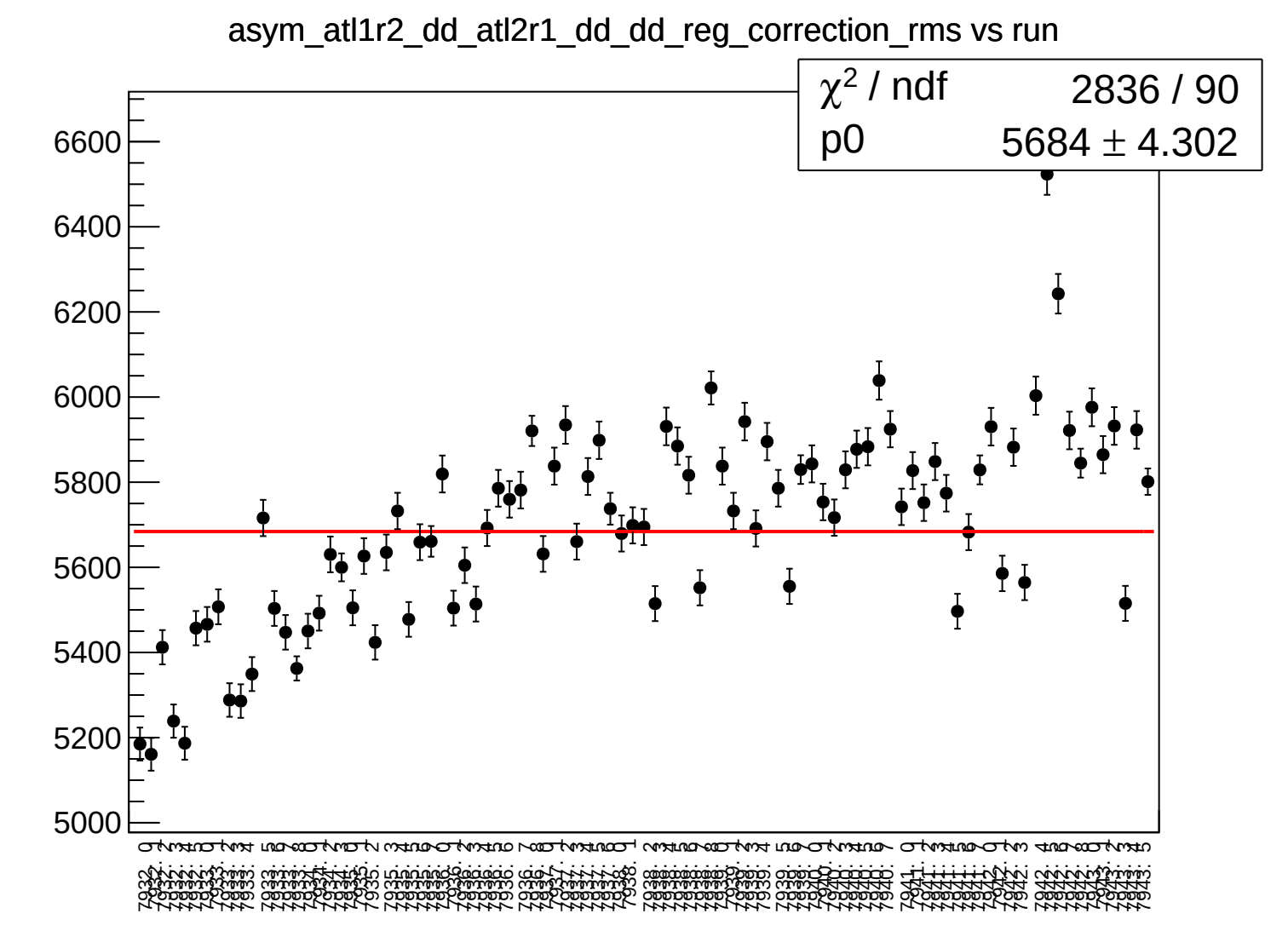

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.5 / 90
p0 1.355e−12 ± 6.767e−13
pull
Entries 91
Mean −325.4
Std Dev 0
pull1D
Entries 91
Mean 0.006286
Std Dev 1.067

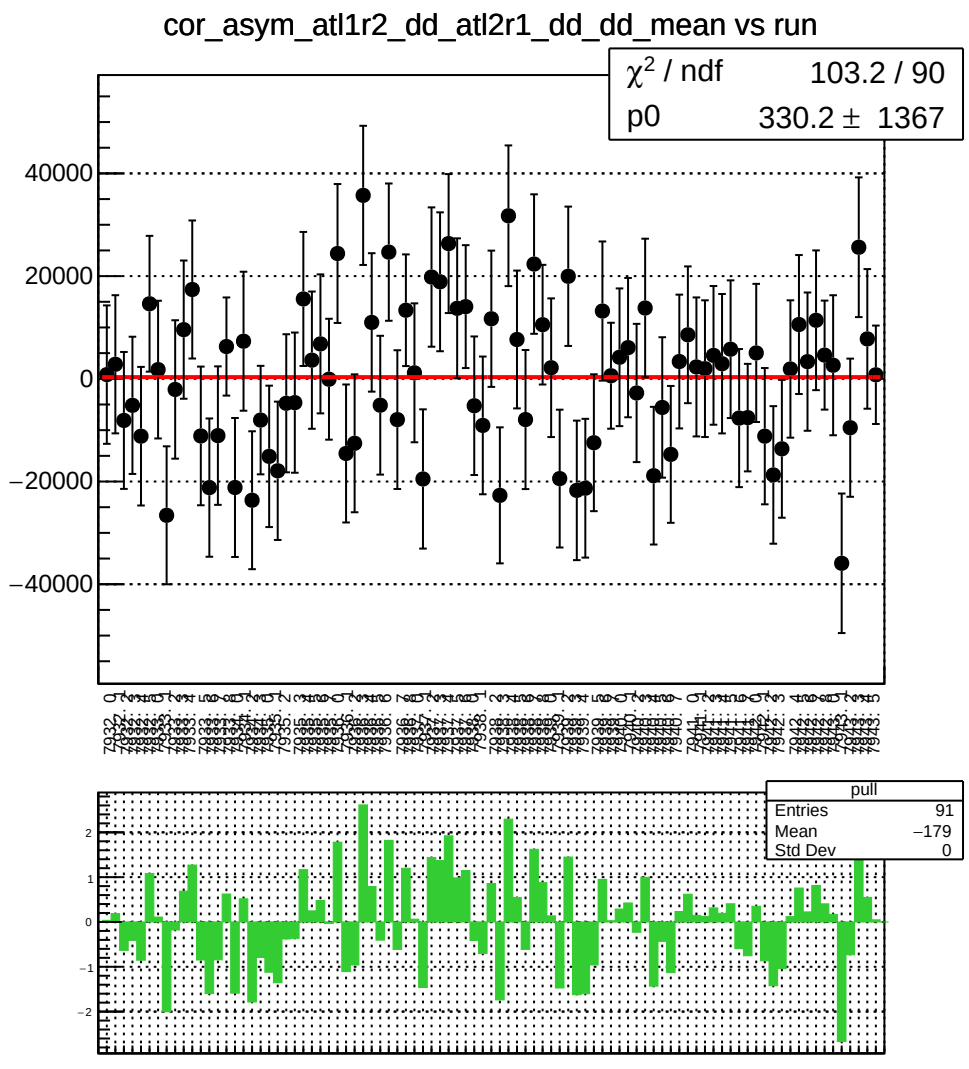

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.842e+05 / 90
p0 4.936e−10 ± 4.785e−13
3
2.5
2
1.5
1
0.5

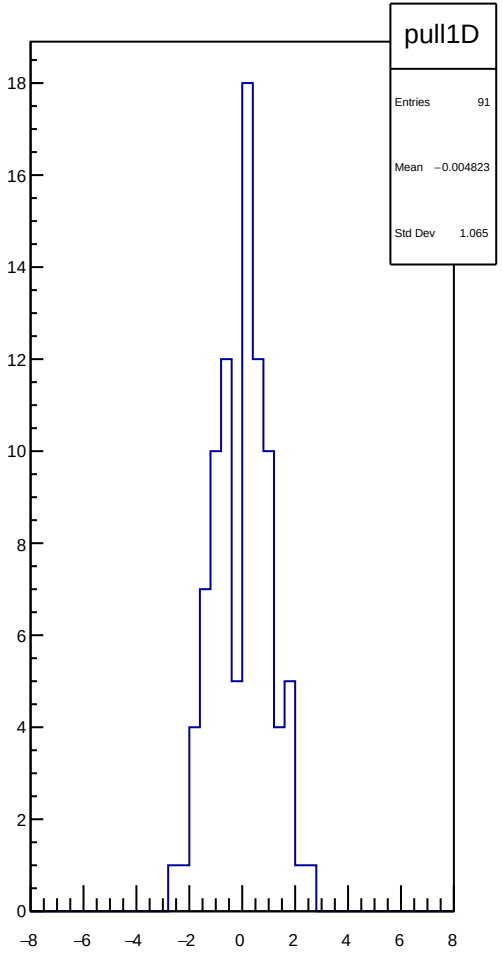

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
pull1D
Entries 91
Mean −0.004823
Std Dev 1.065

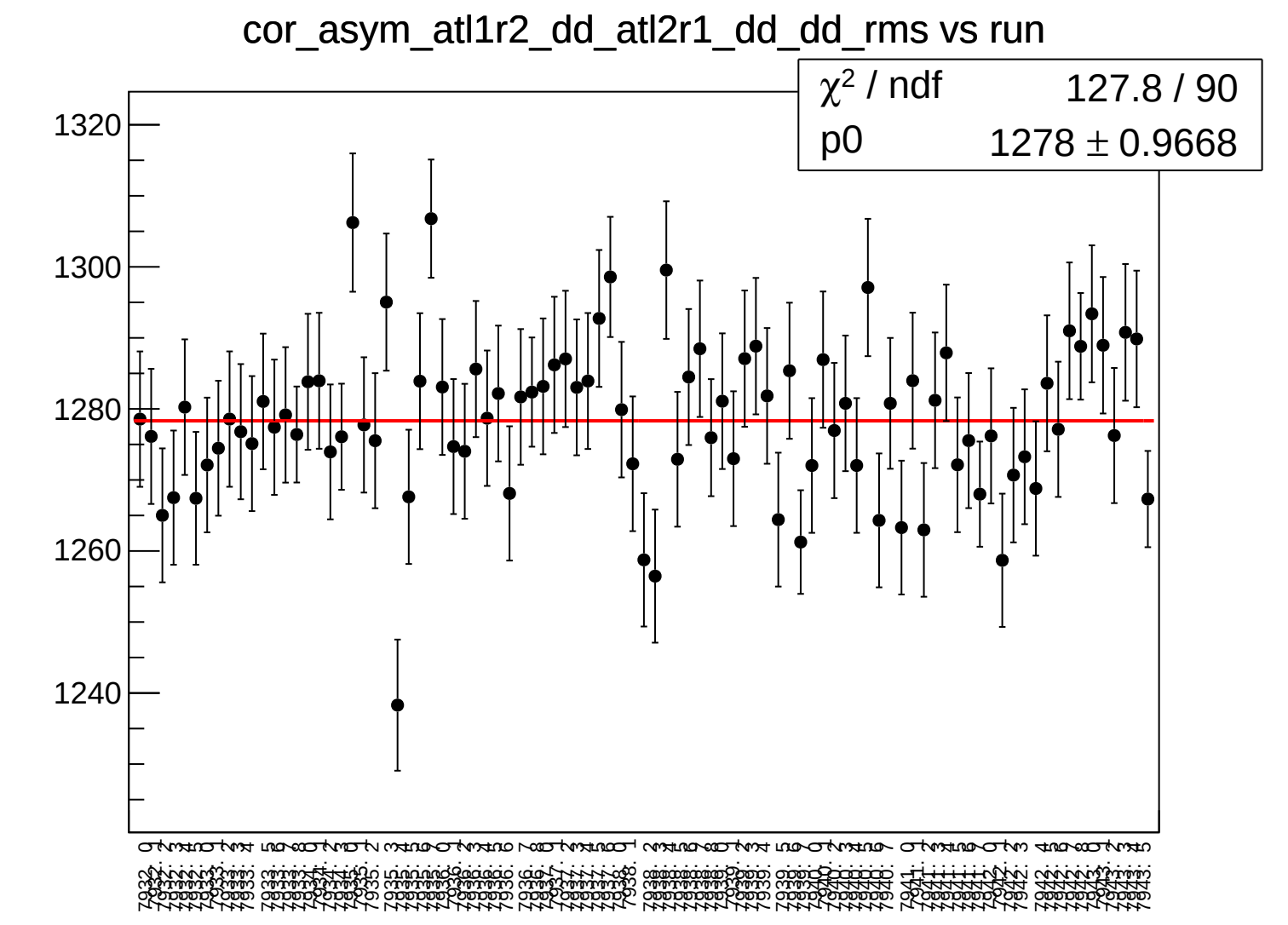

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

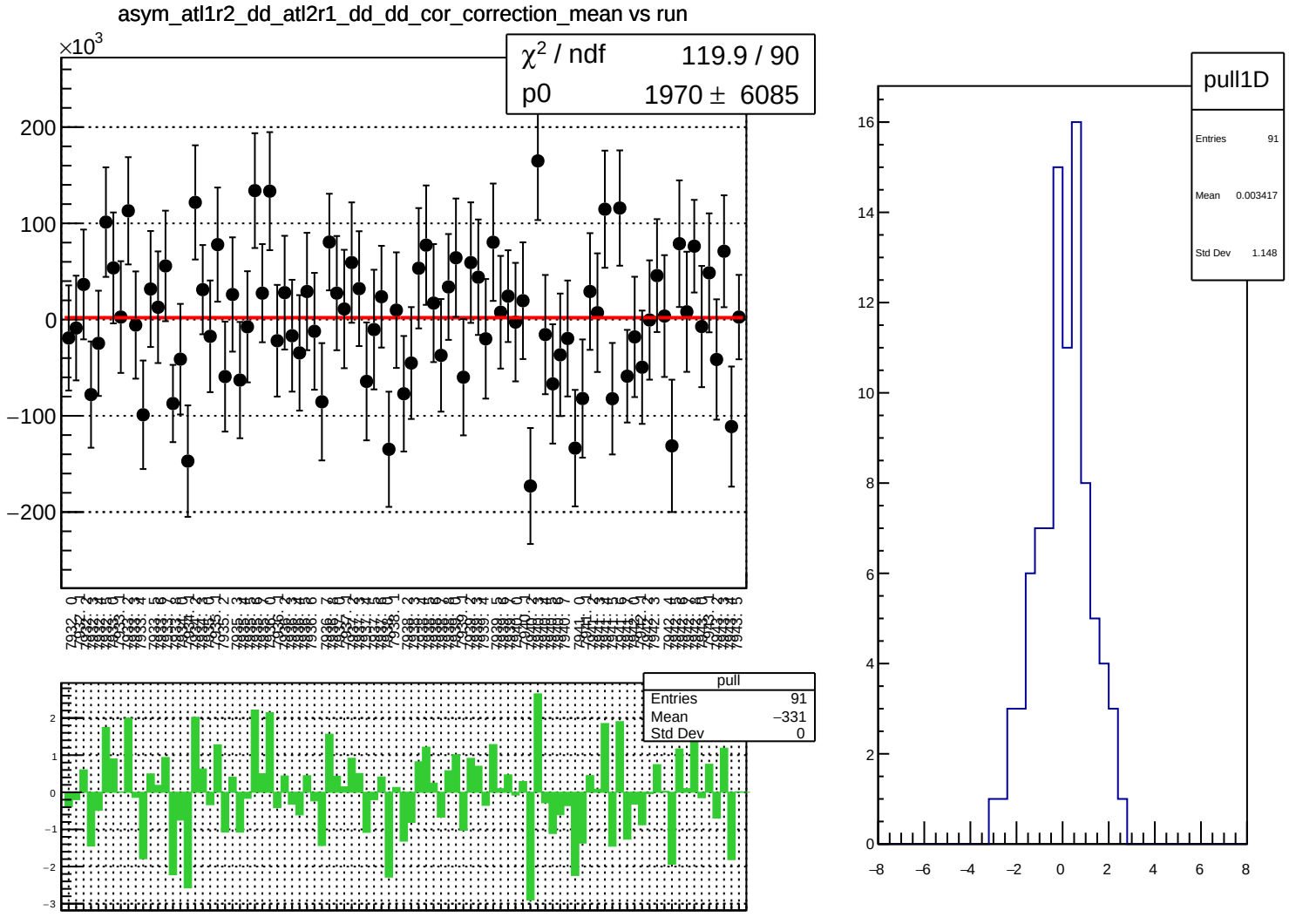

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

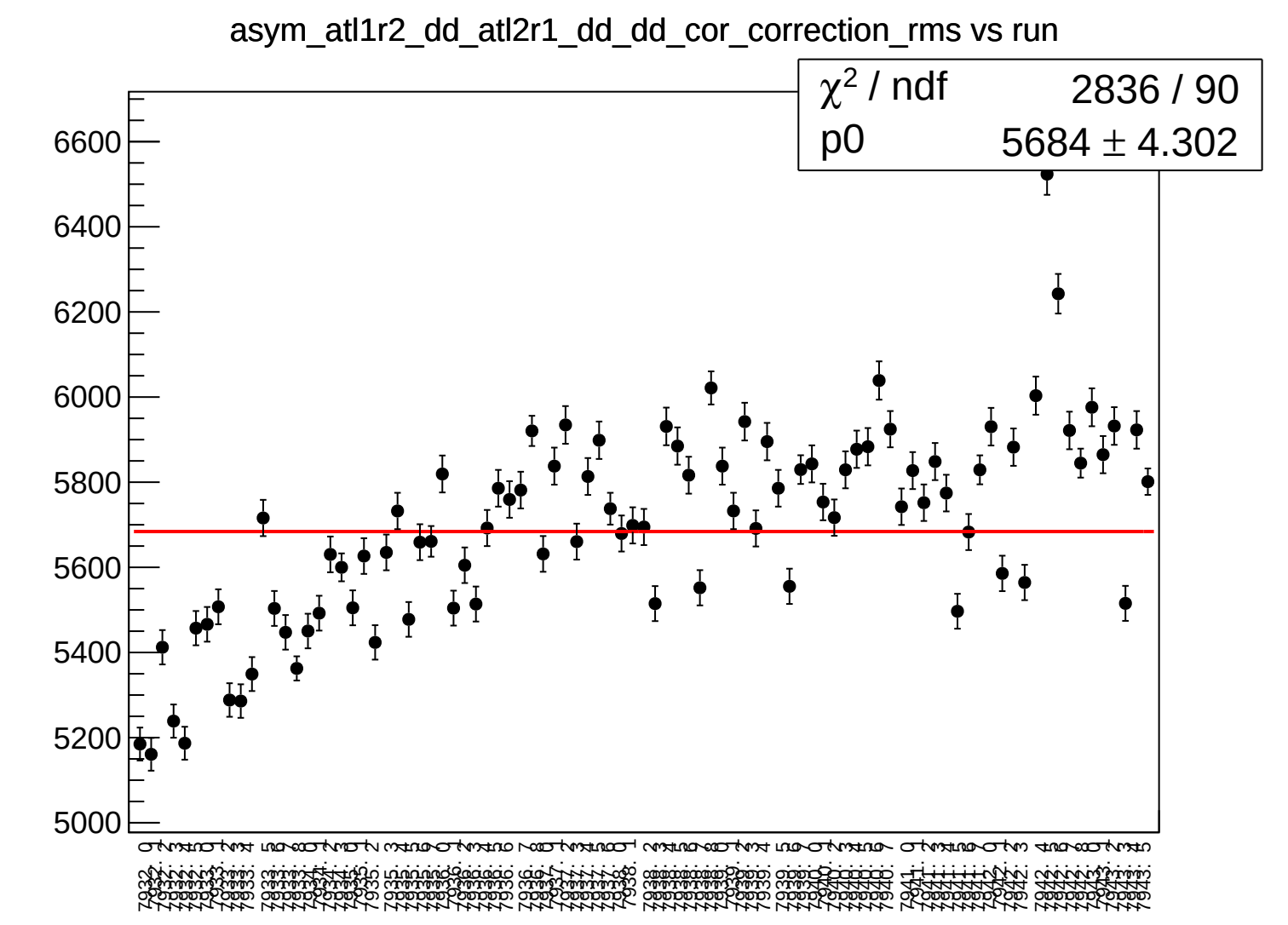

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

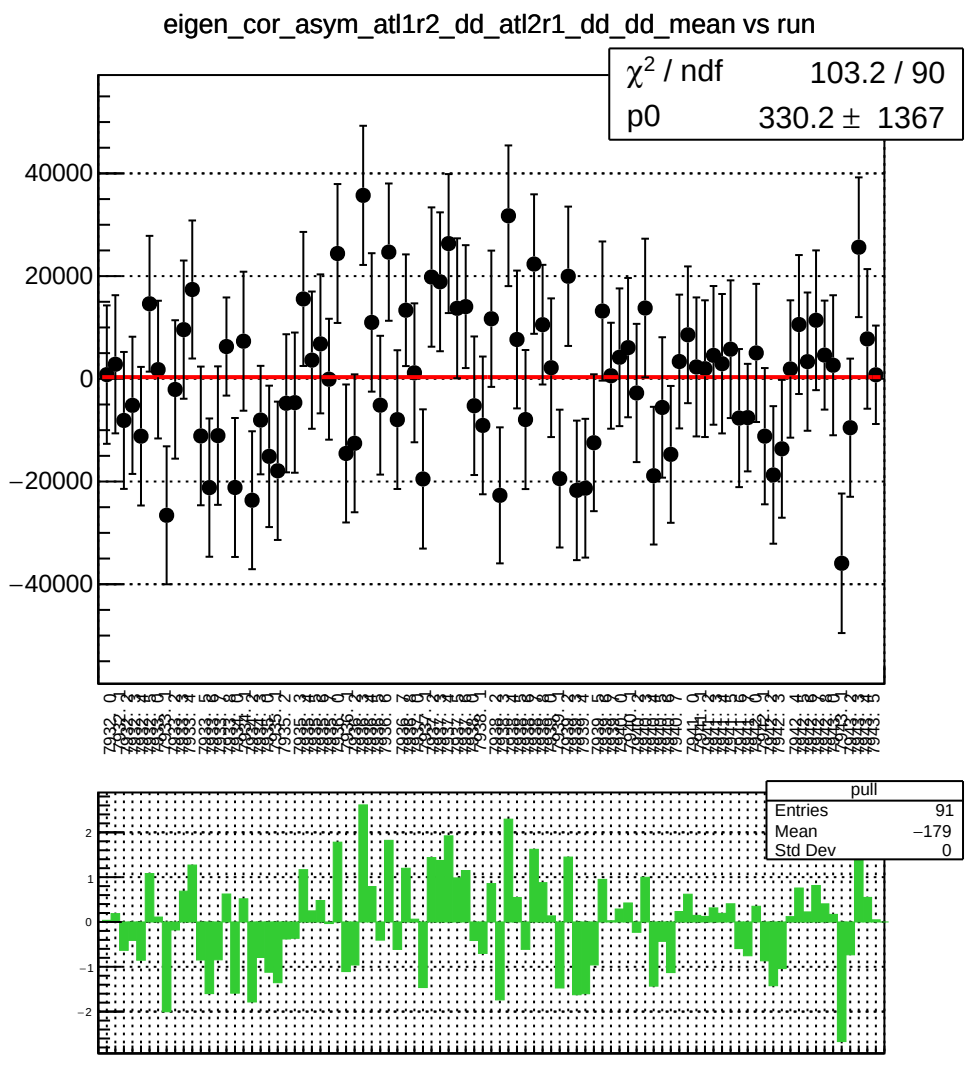

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
2
1
0
−1
−2

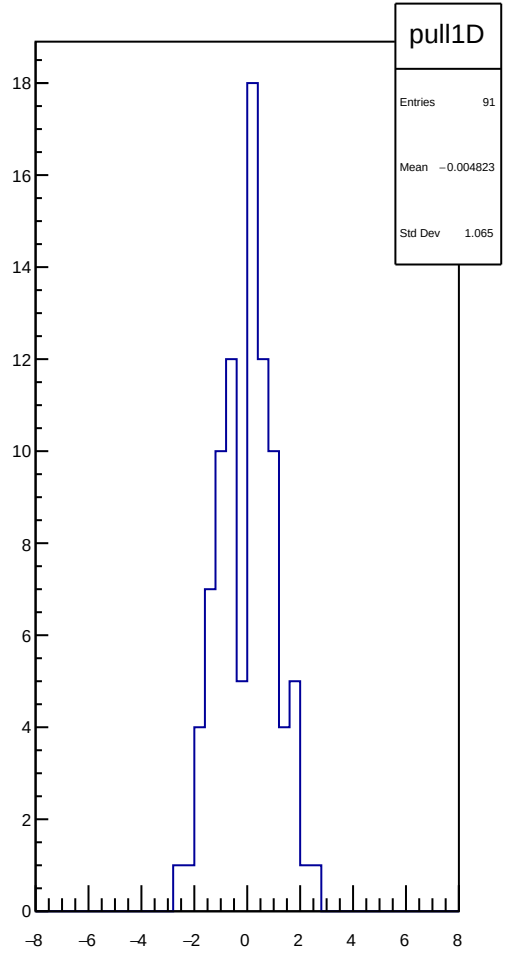

pull1D
Entries 91
Mean −0.004823
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

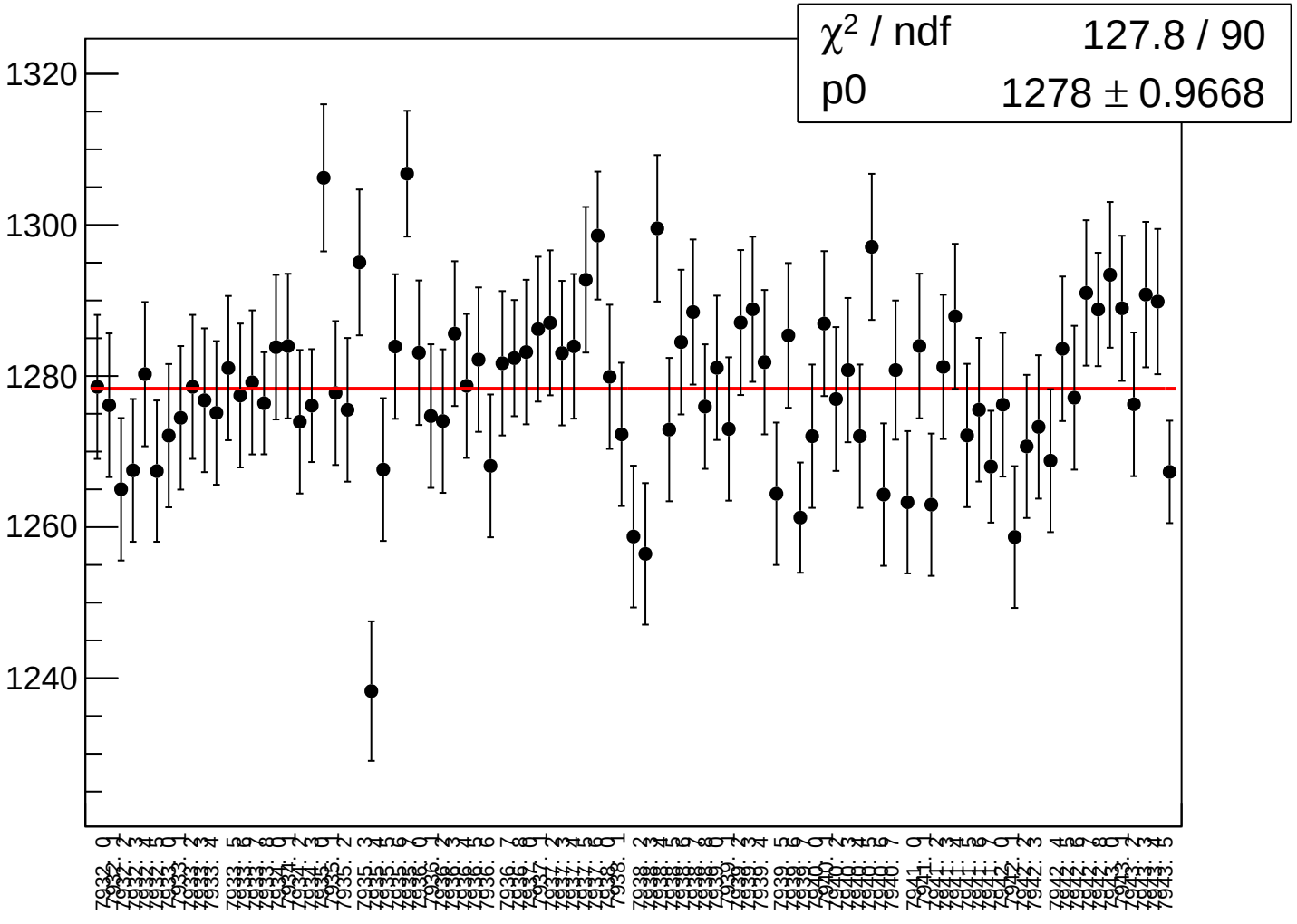

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

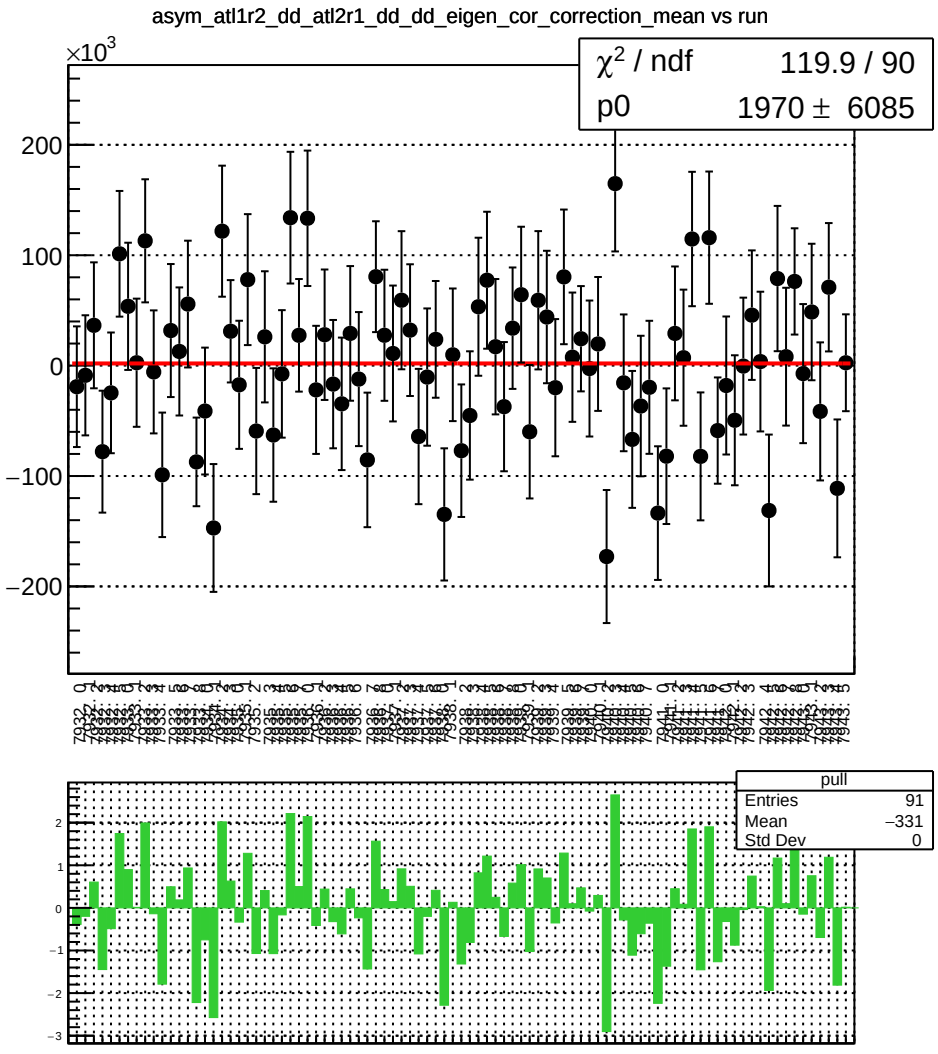

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
pull1D
Entries 91
Mean 0.003417
Std Dev 1.148

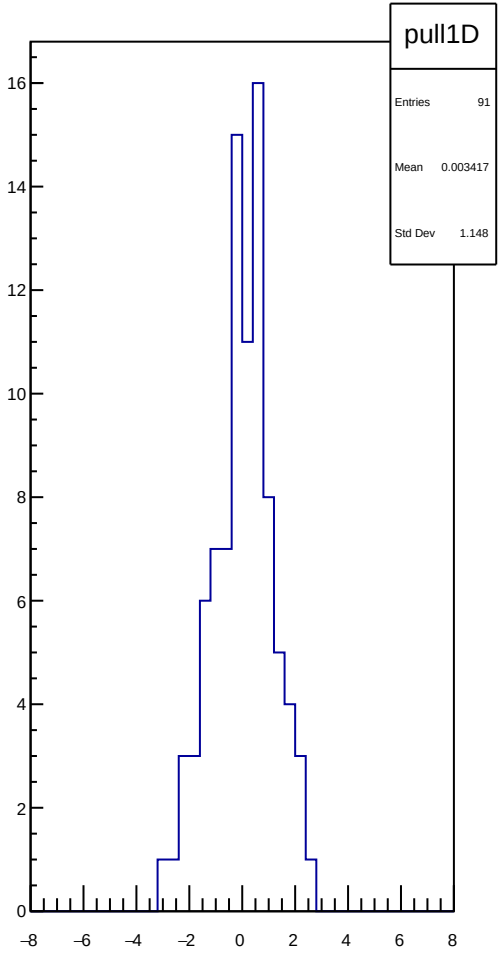

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

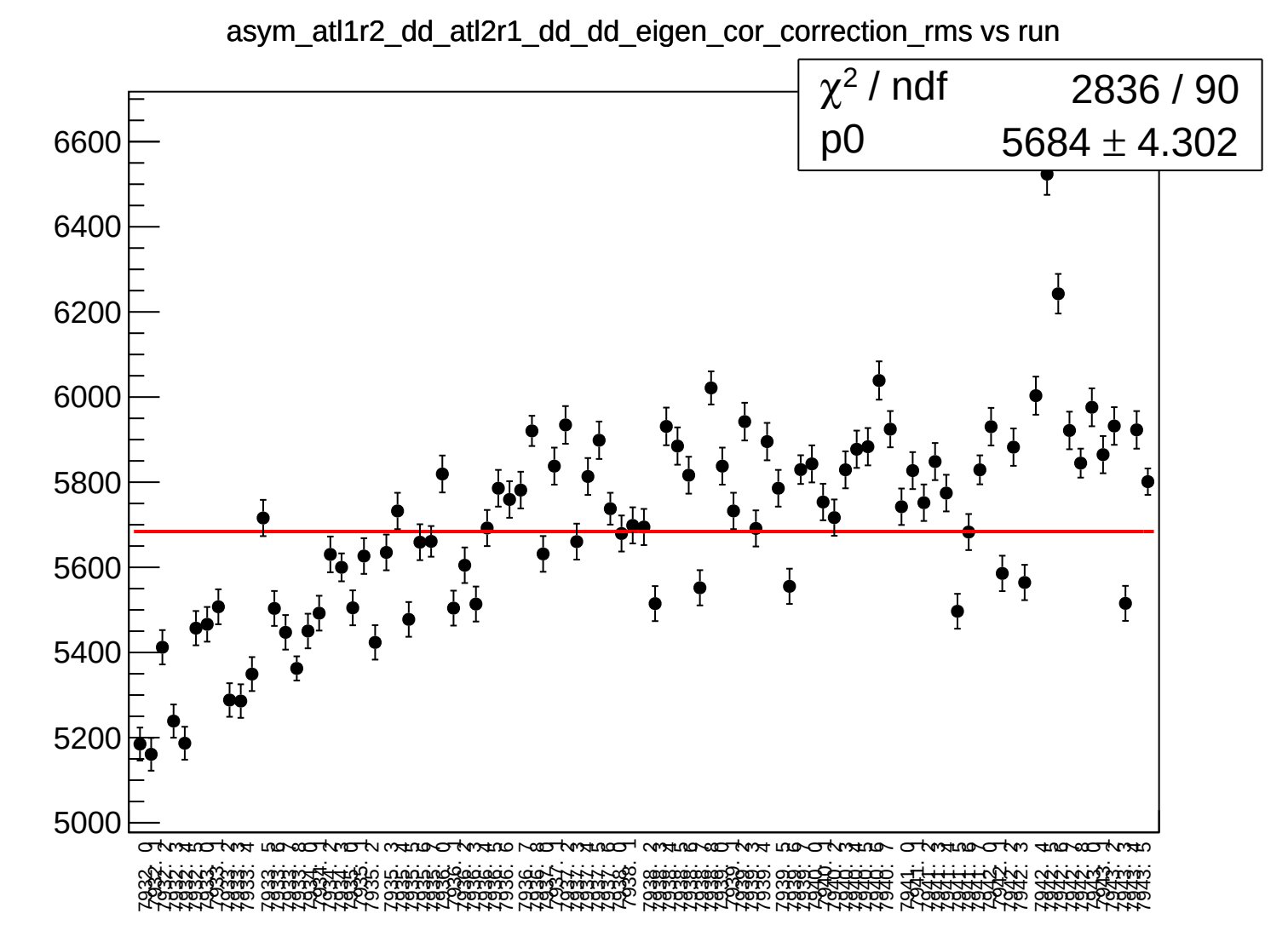

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.2 / 90
p0 330.2 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179
Std Dev 0
2
1
0
−1
−2

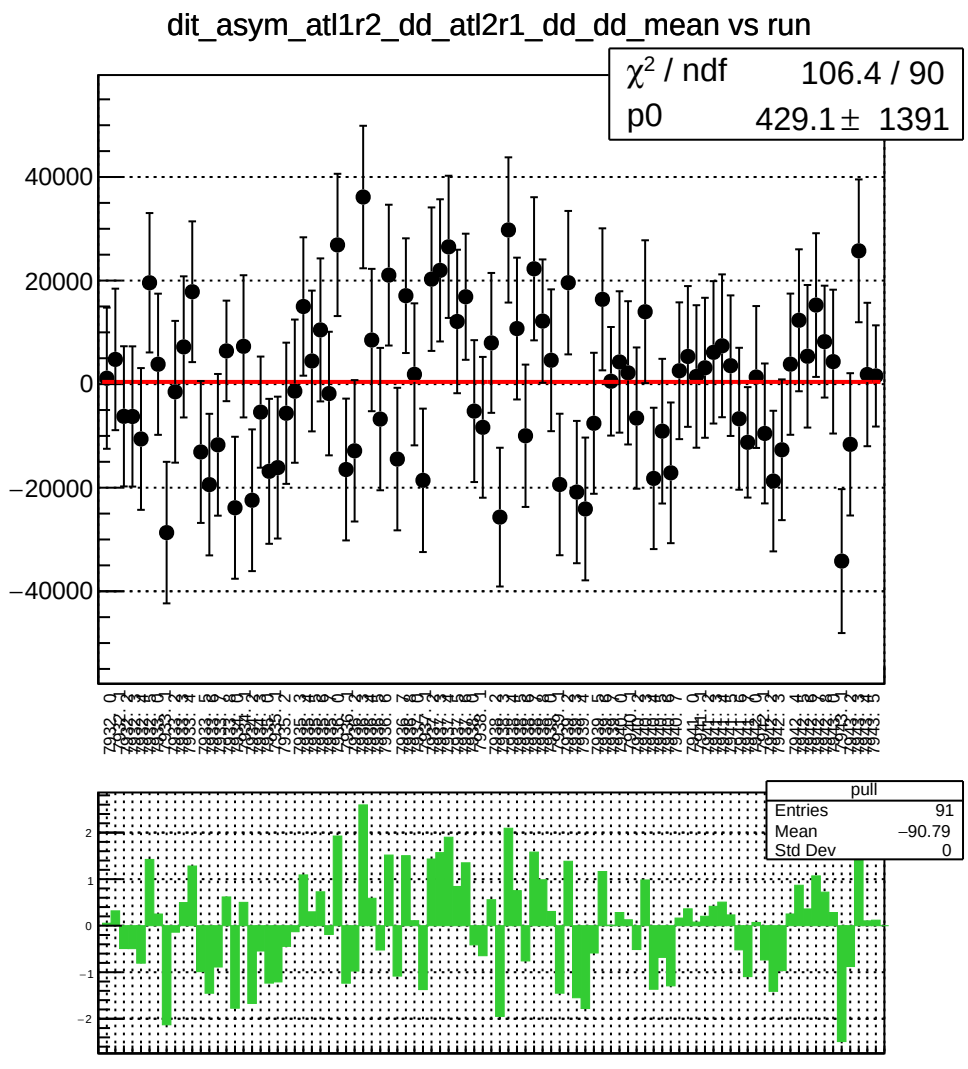

pull1D
Entries 91
Mean −0.004823
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

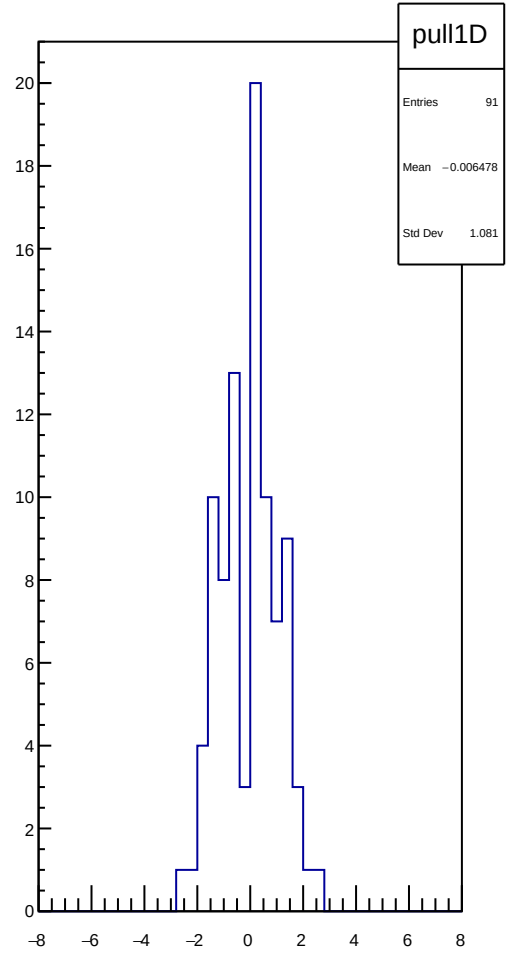

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 127.8 / 90
p0 1278 ± 0.9668
1320
1300
1280
1260
1240

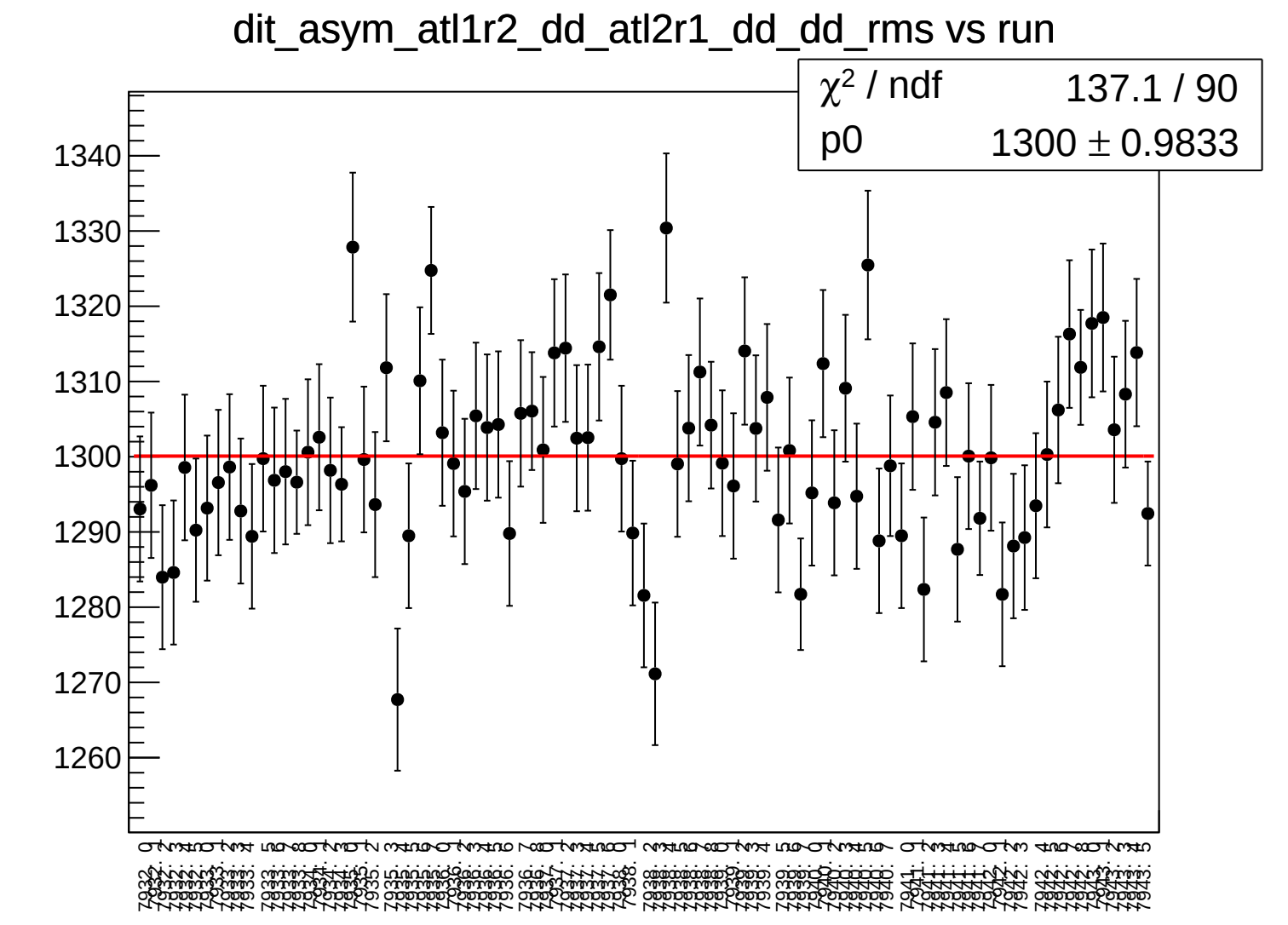

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 1970 ± 6085
200
100
0
−100
−200
pull
Entries 91
Mean −331
Std Dev 0
2
1
0
−1
−2
−3

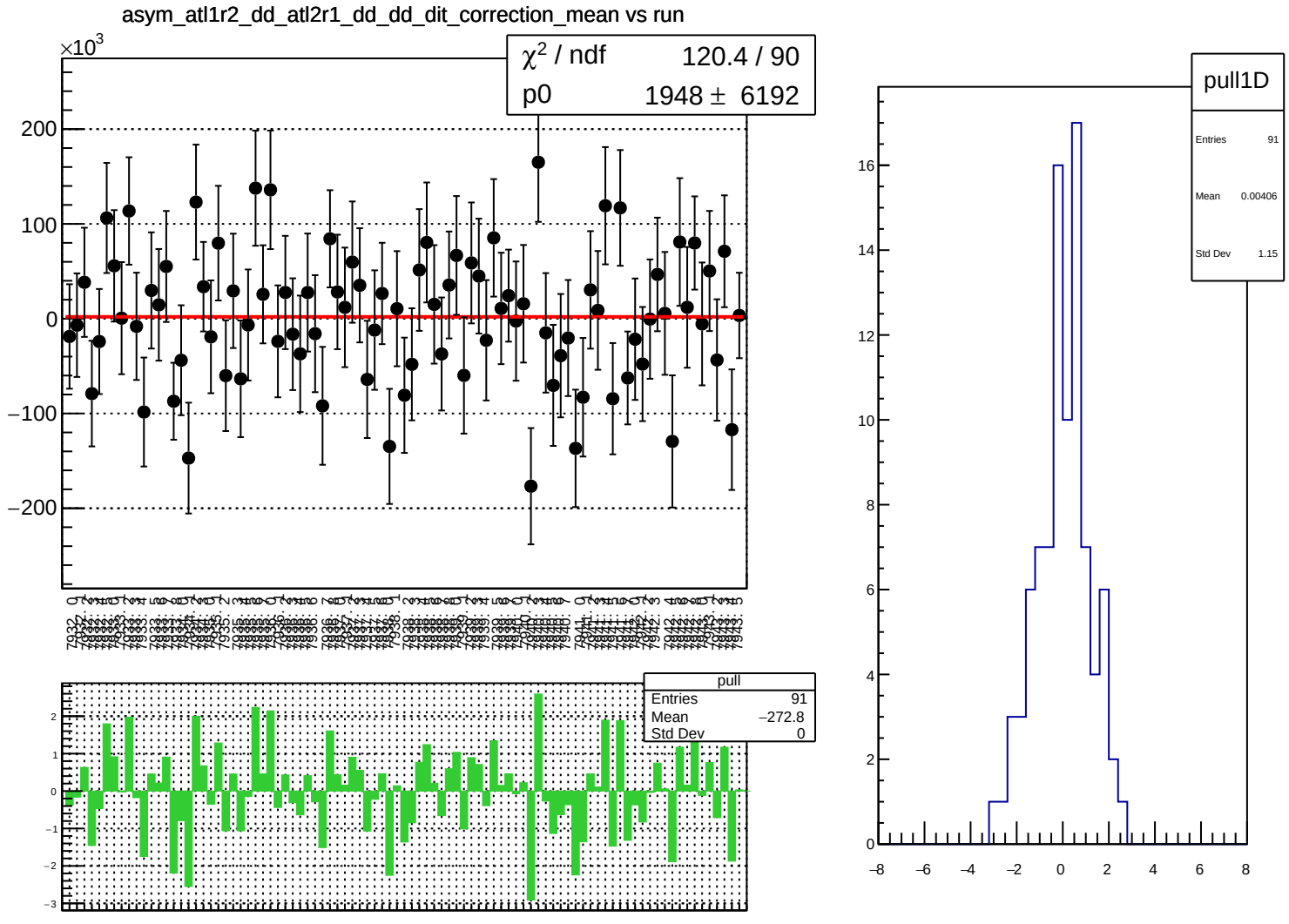

pull1D
Entries 91
Mean 0.003417
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

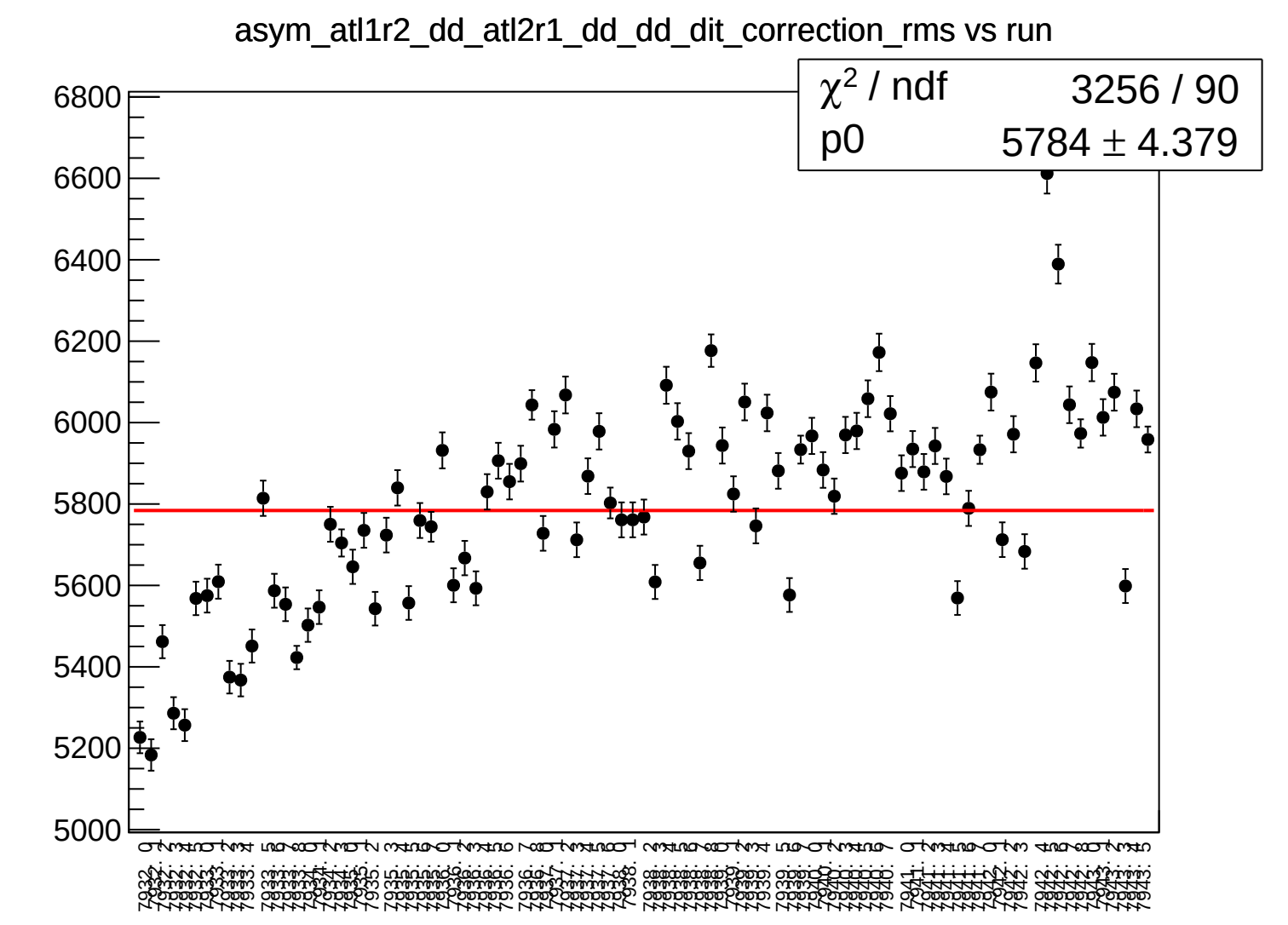

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2836 / 90
p0 5684 ± 4.302
6600
6400
6200
6000
5800
5600
5400
5200
5000

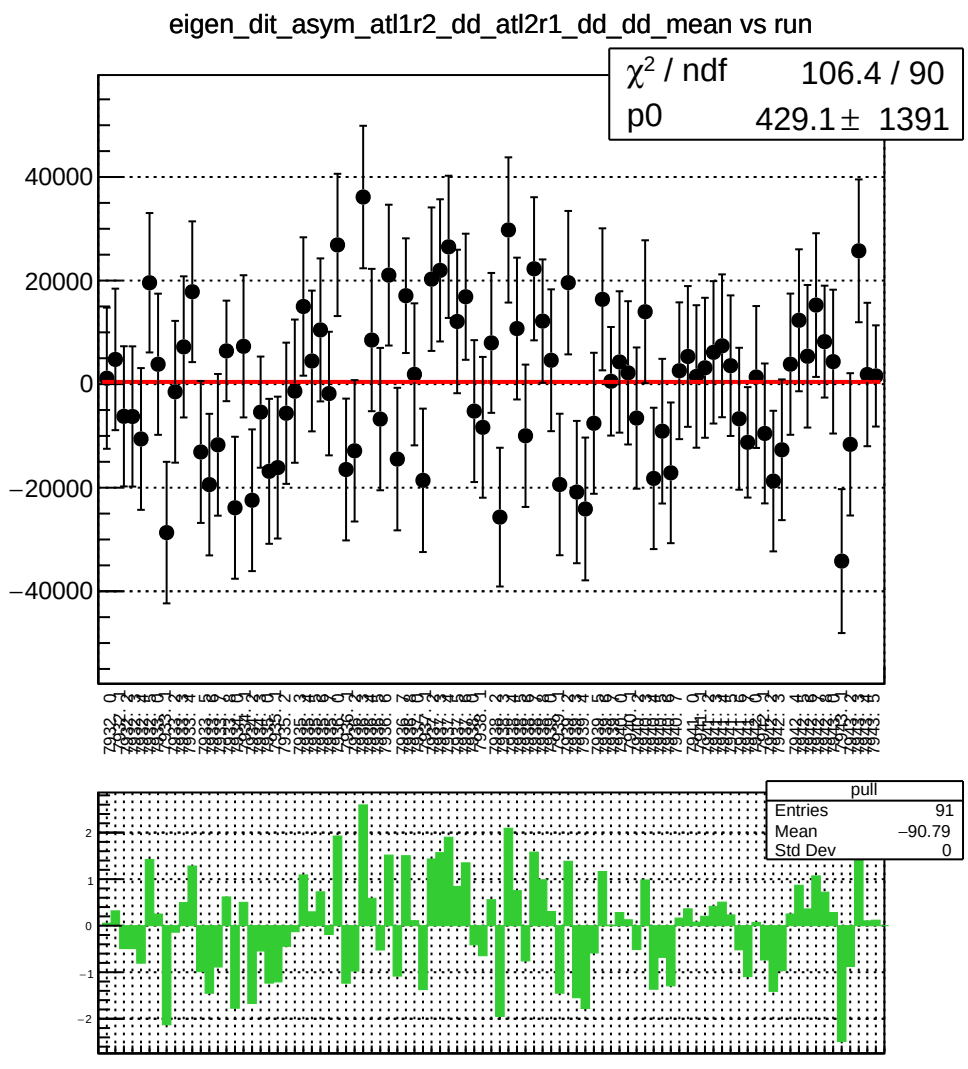

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 106.4 / 90
p0 429.1 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −90.79
Std Dev 0
2
1
0
−1
−2

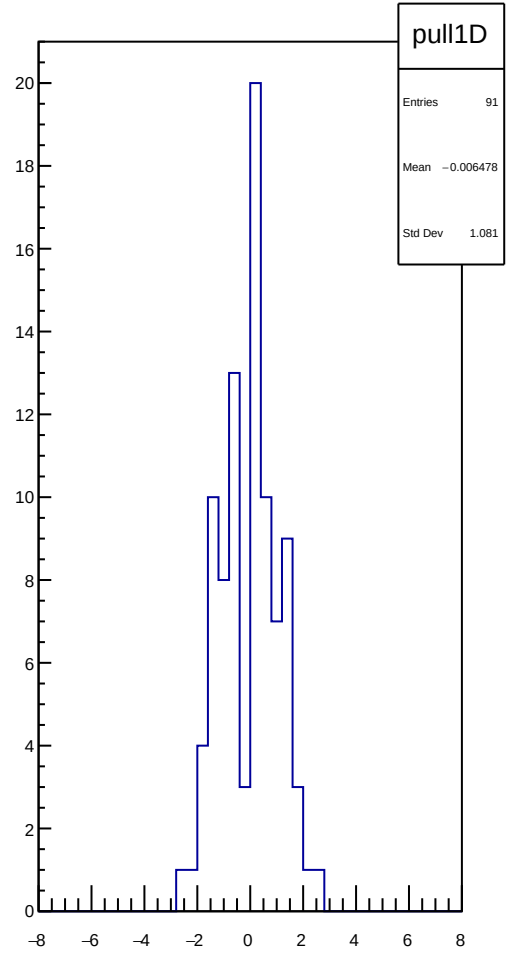

pull1D
Entries 91
Mean −0.006478
Std Dev 1.081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

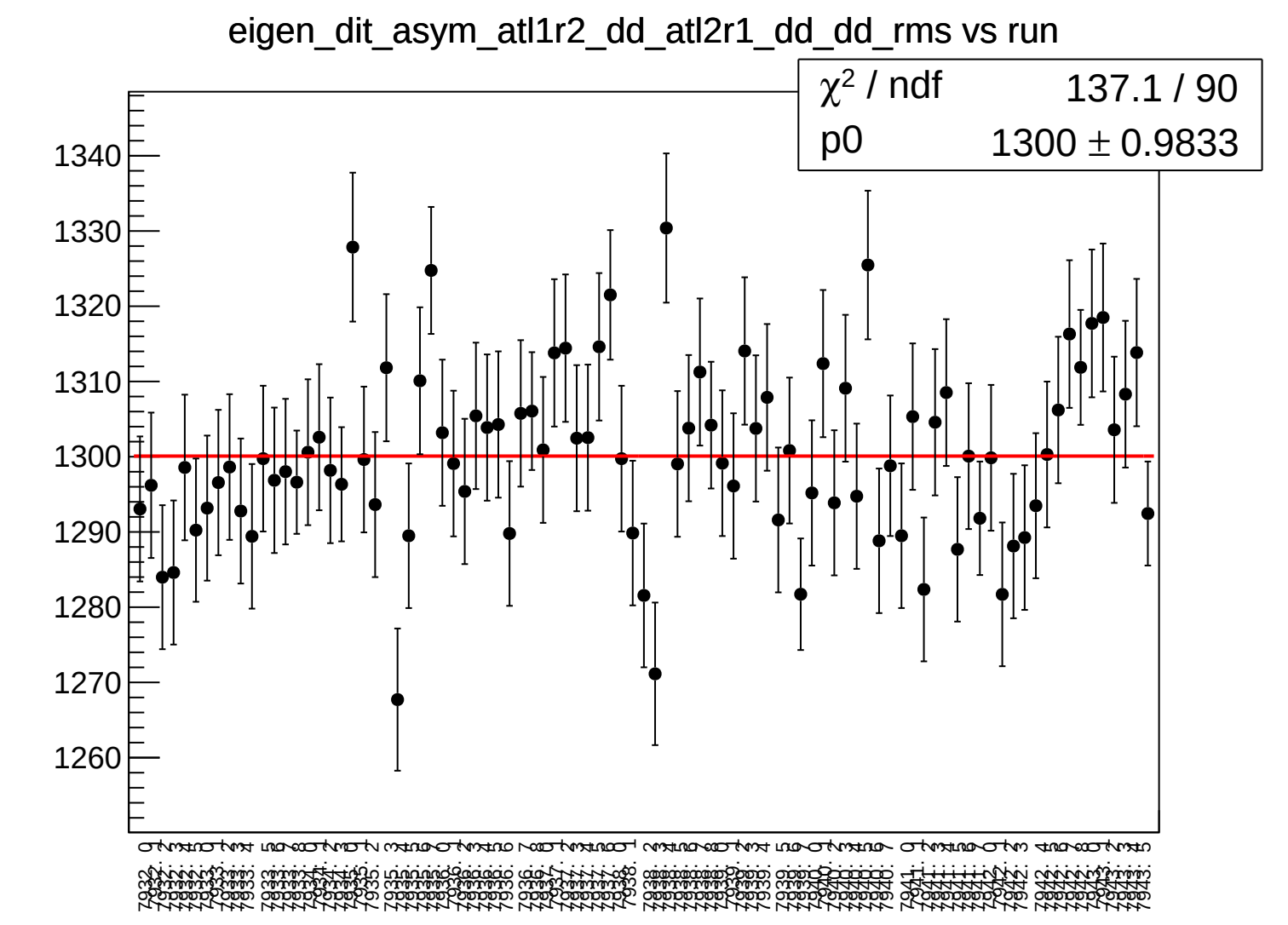

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 137.1 / 90
p0 1300 ± 0.9833
1340
1330
1320
1310
1300
1290
1280
1270
1260

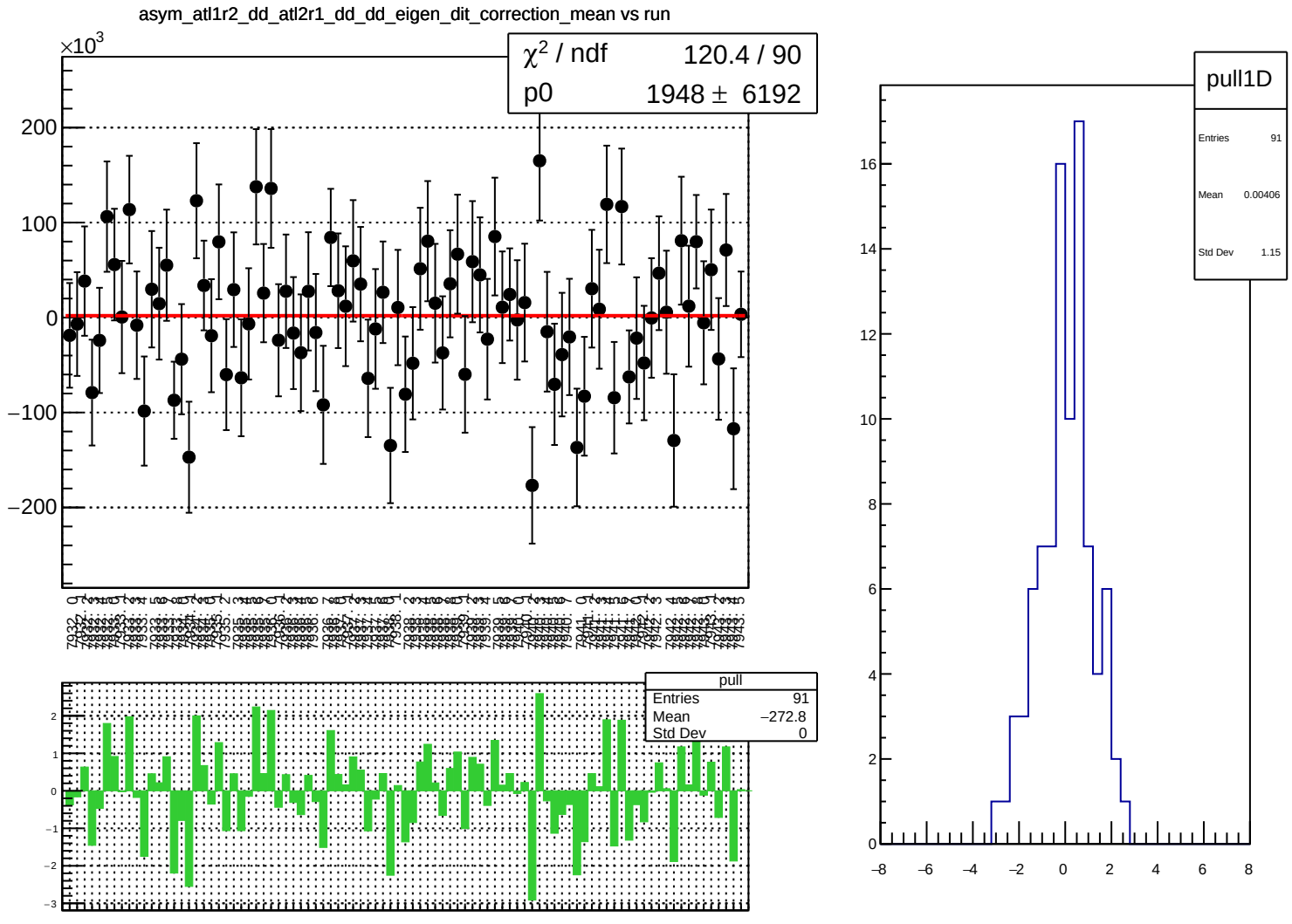

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1948 ± 6192
200
100
0
−100
−200
pull
Entries 91
Mean −272.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.00406
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

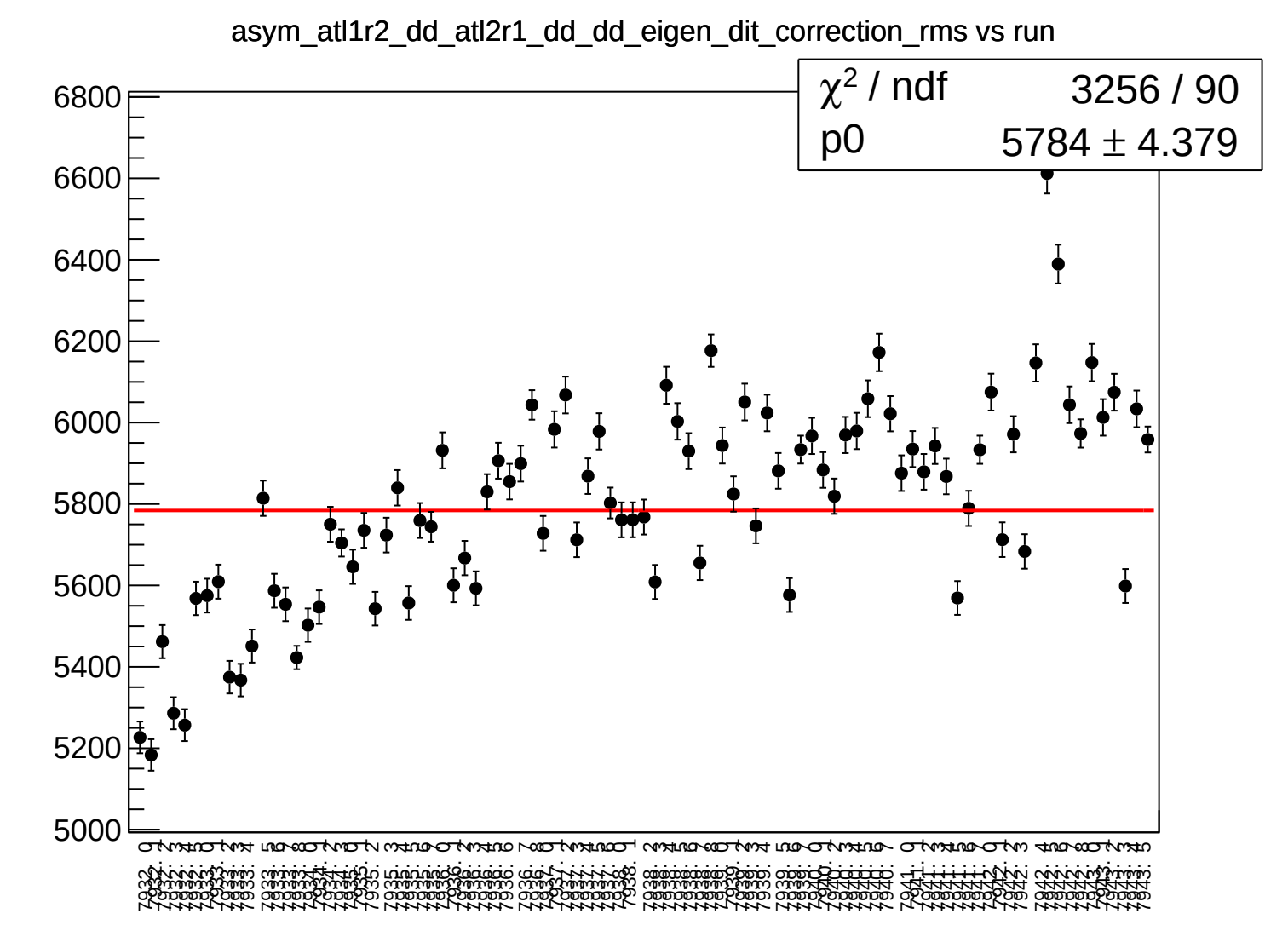

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3256 / 90
p0 5784 ± 4.379
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

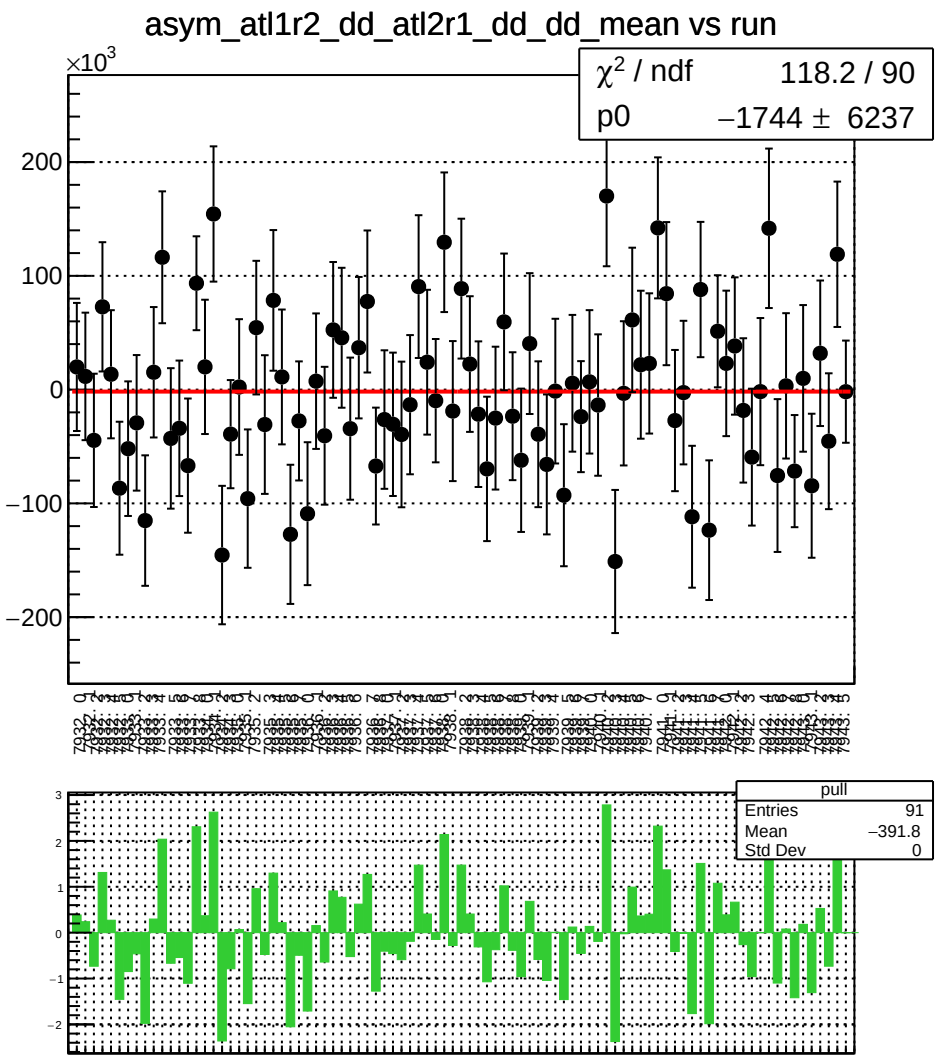

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 106.4 / 90
p0 429.1 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −90.79
Std Dev 0
2
1
0
−1
−2

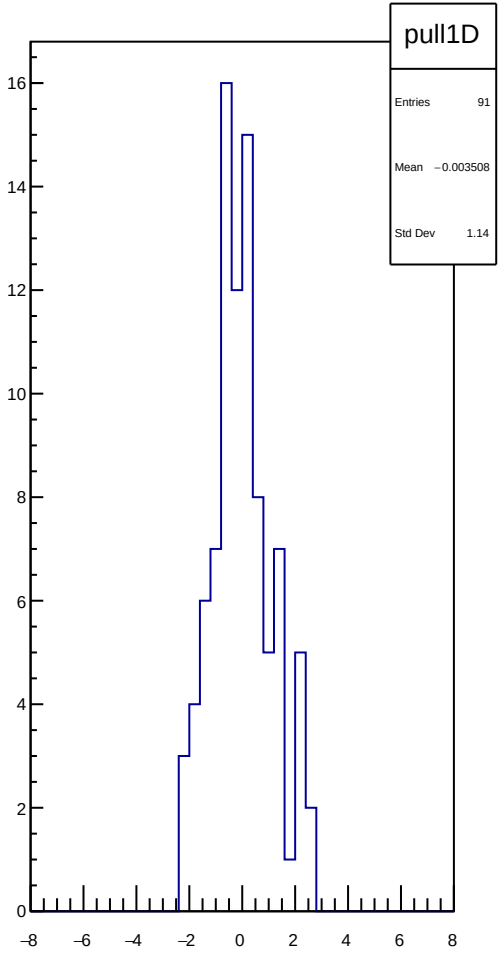

pull1D
Entries 91
Mean −0.006478
Std Dev 1.081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

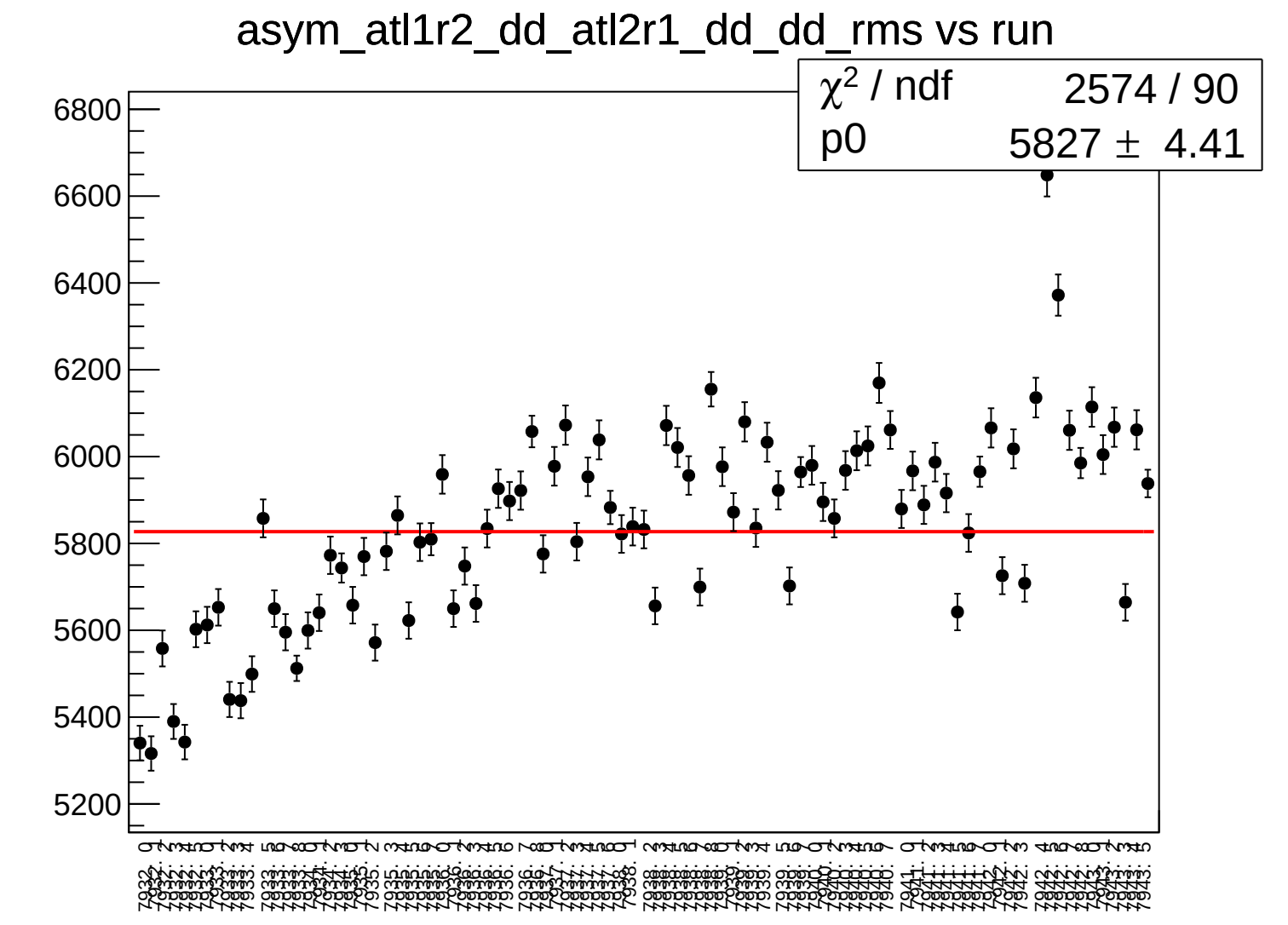

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 137.1 / 90
p0 1300 ± 0.9833
1340
1330
1320
1310
1300
1290
1280
1270
1260

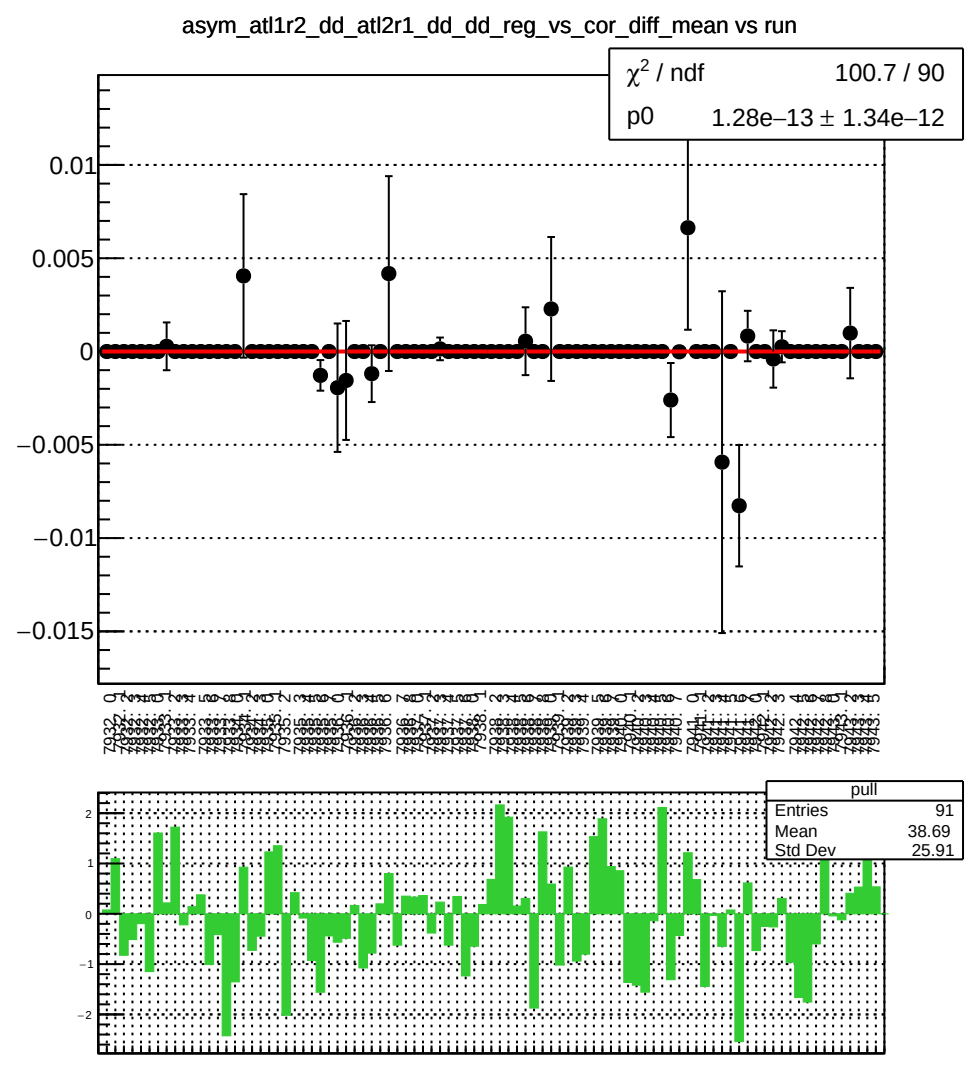

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1948 ± 6192
200
100
0
−100
−200
pull
Entries 91
Mean −272.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.00406
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

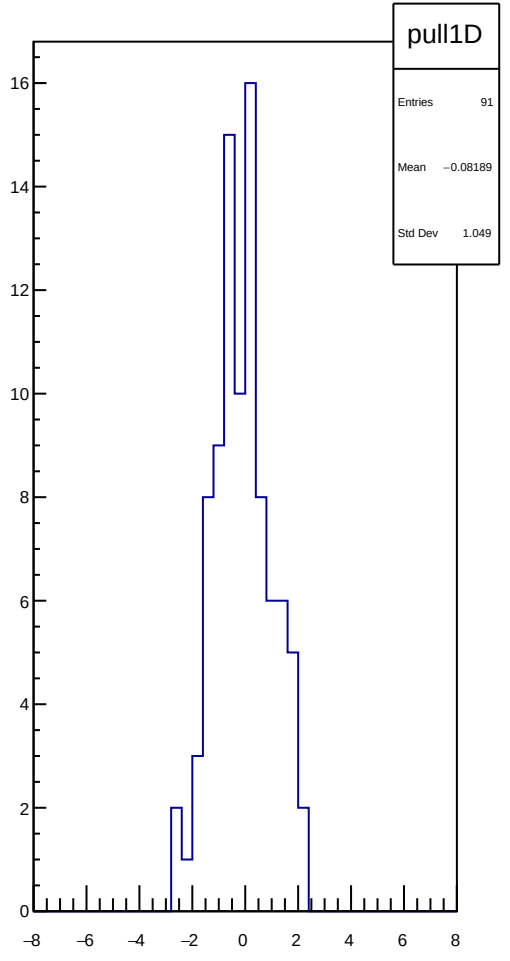

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3256 / 90
p0 5784 ± 4.379
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

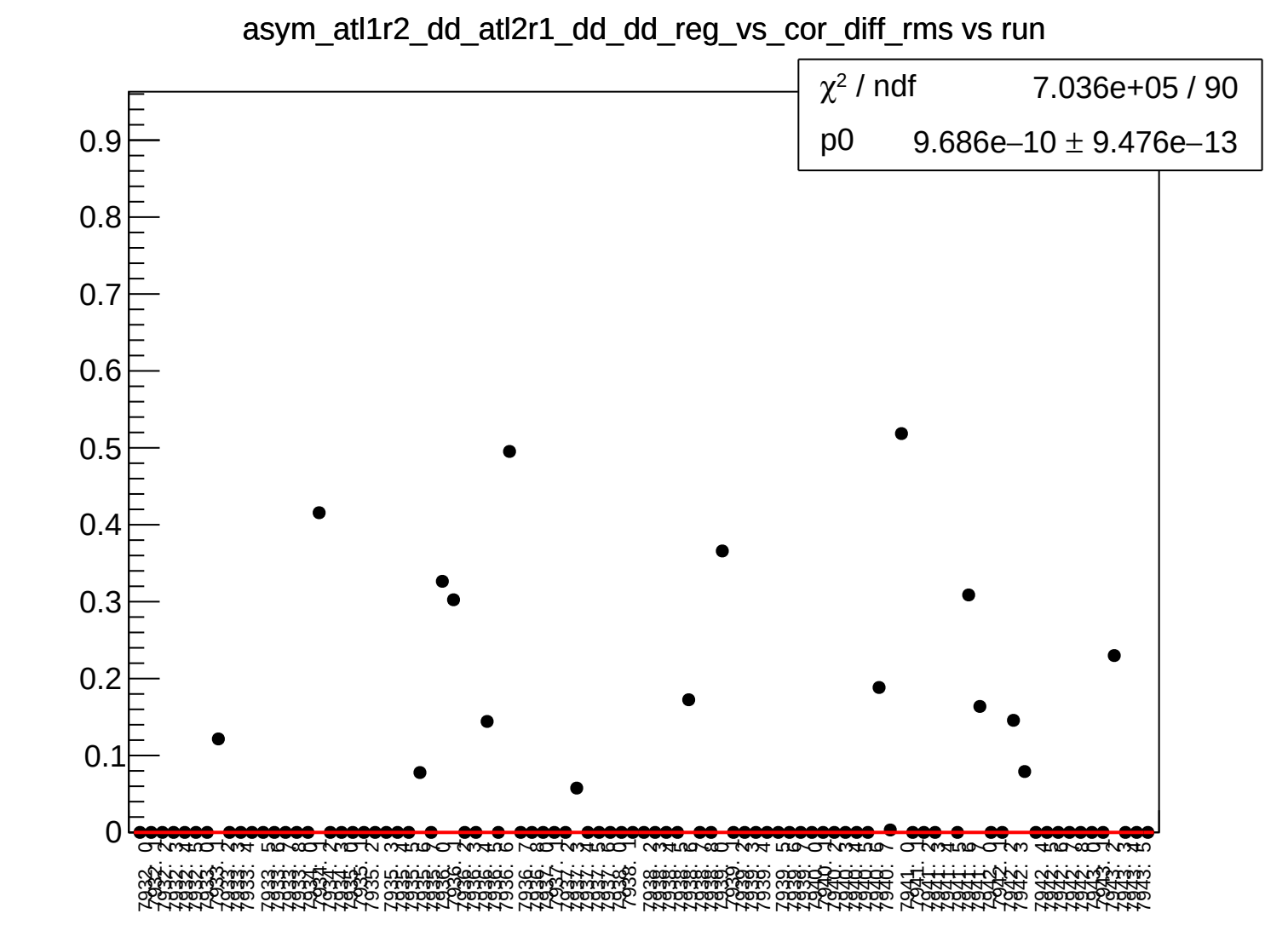

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 118.2 / 90
p0 −1744 ± 6237
200
100
0
−100
−200
pull
Entries 91
Mean −391.8
Std Dev 0
3
2
1
0
−1
−2

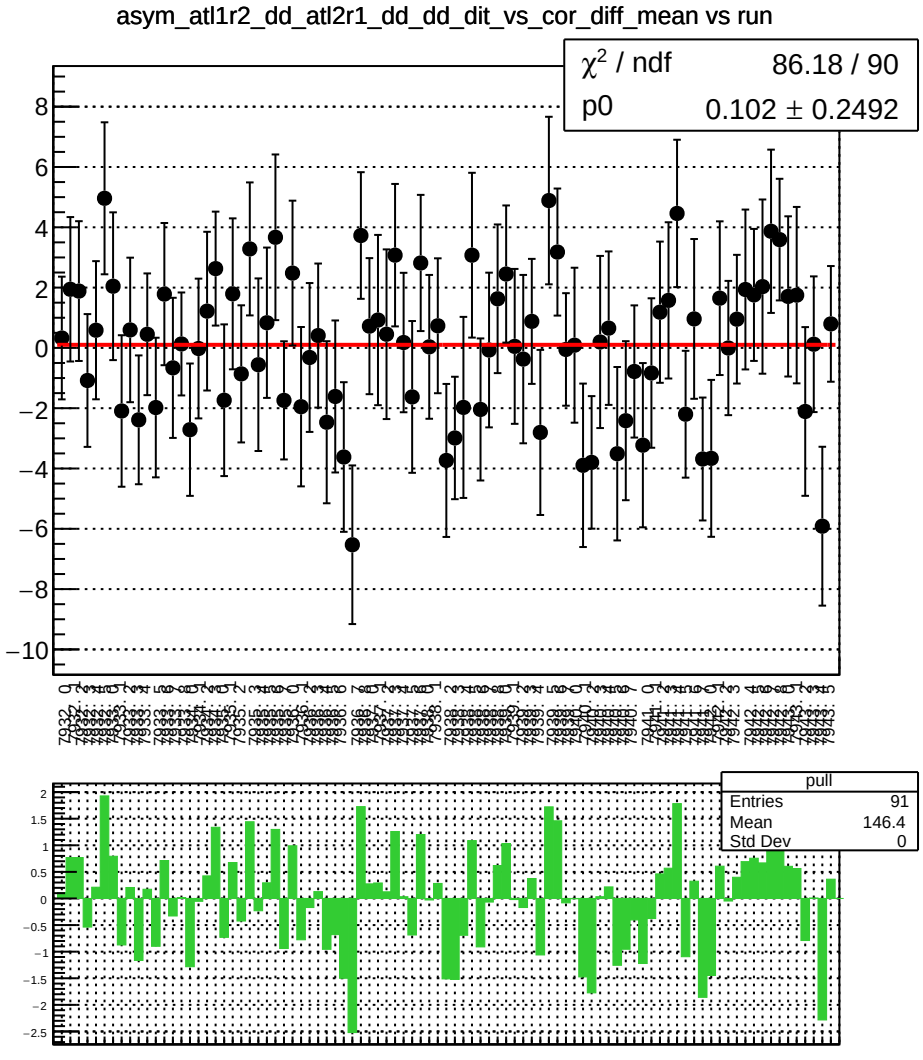

pull1D
Entries 91
Mean −0.003508
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

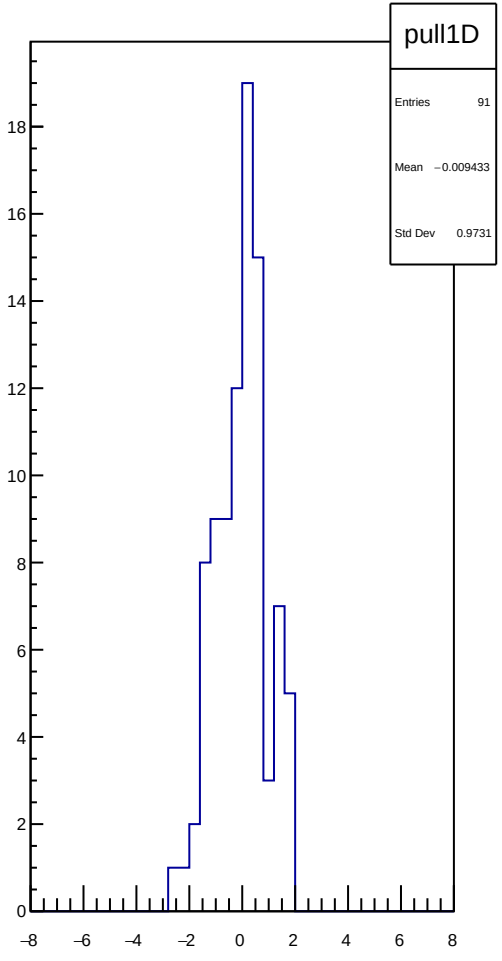

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2574 / 90
p0 5827 ± 4.41
6800
6600
6400
6200
6000
5800
5600
5400
5200

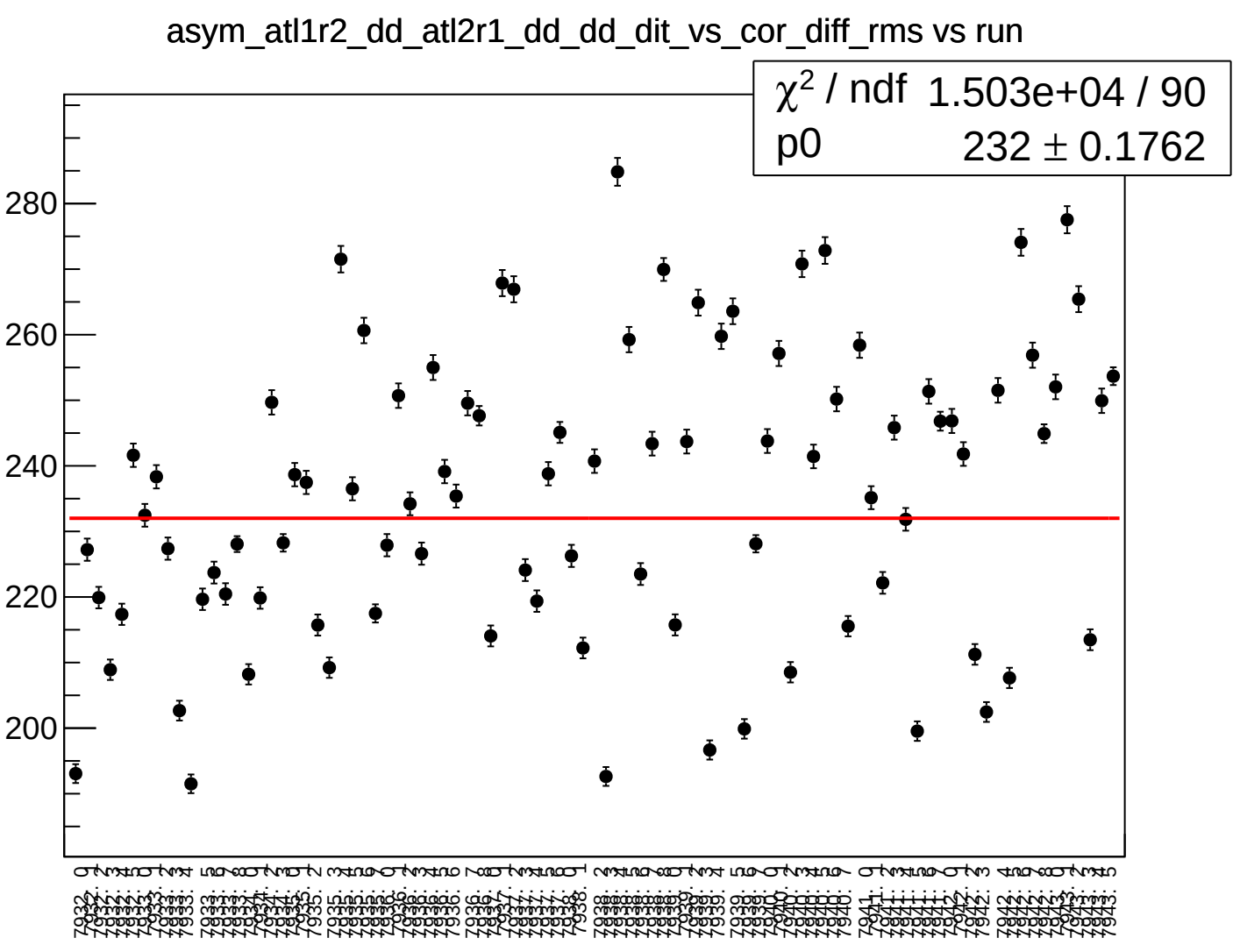

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 90
p0 1.28e−13 ± 1.34e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 38.69
Std Dev 25.91
2
1
0
−1
−2

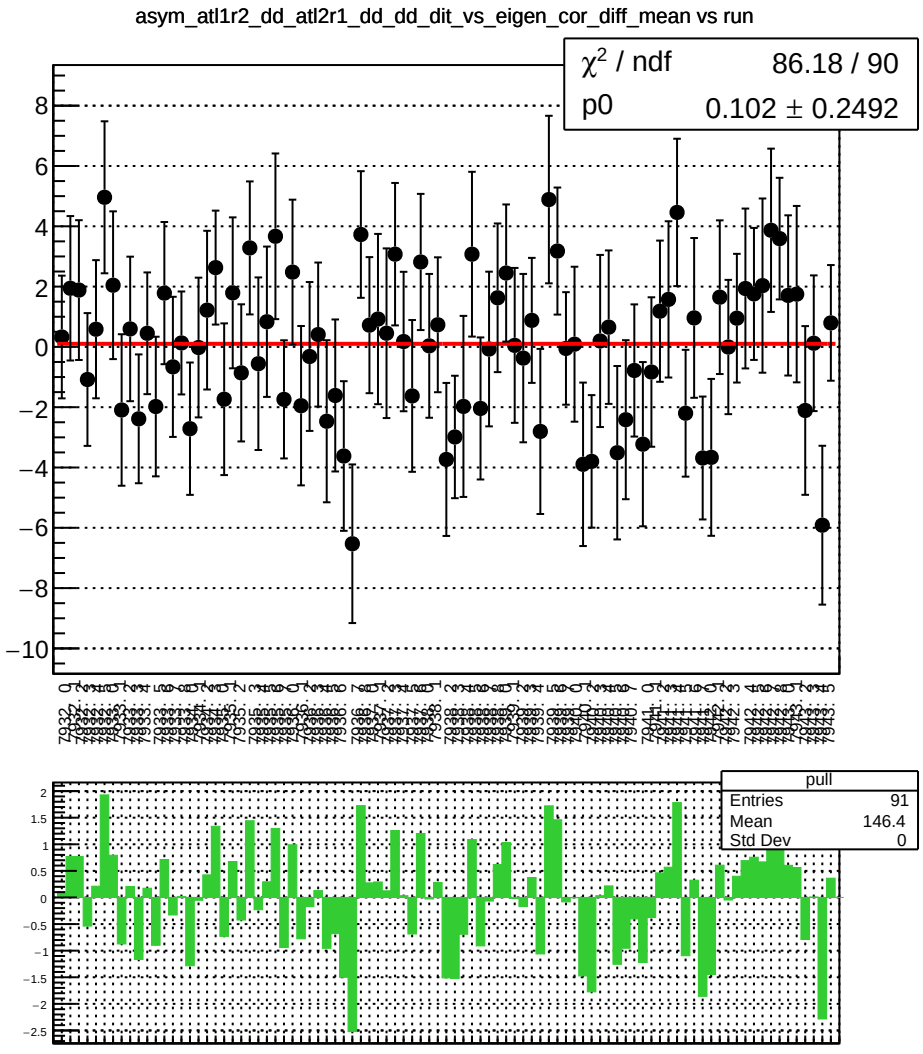

pull1D
Entries 91
Mean −0.08189
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

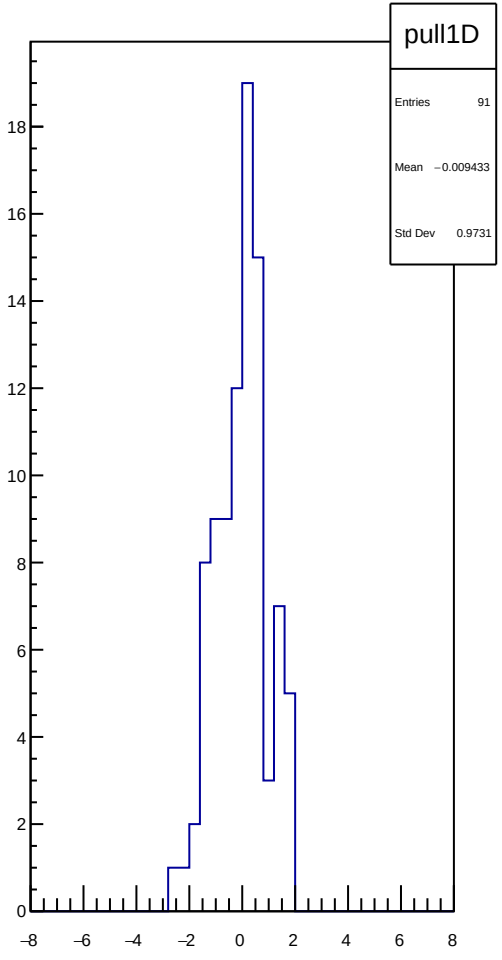

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.036e+05 / 90
p0 9.686e−10 ± 9.476e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

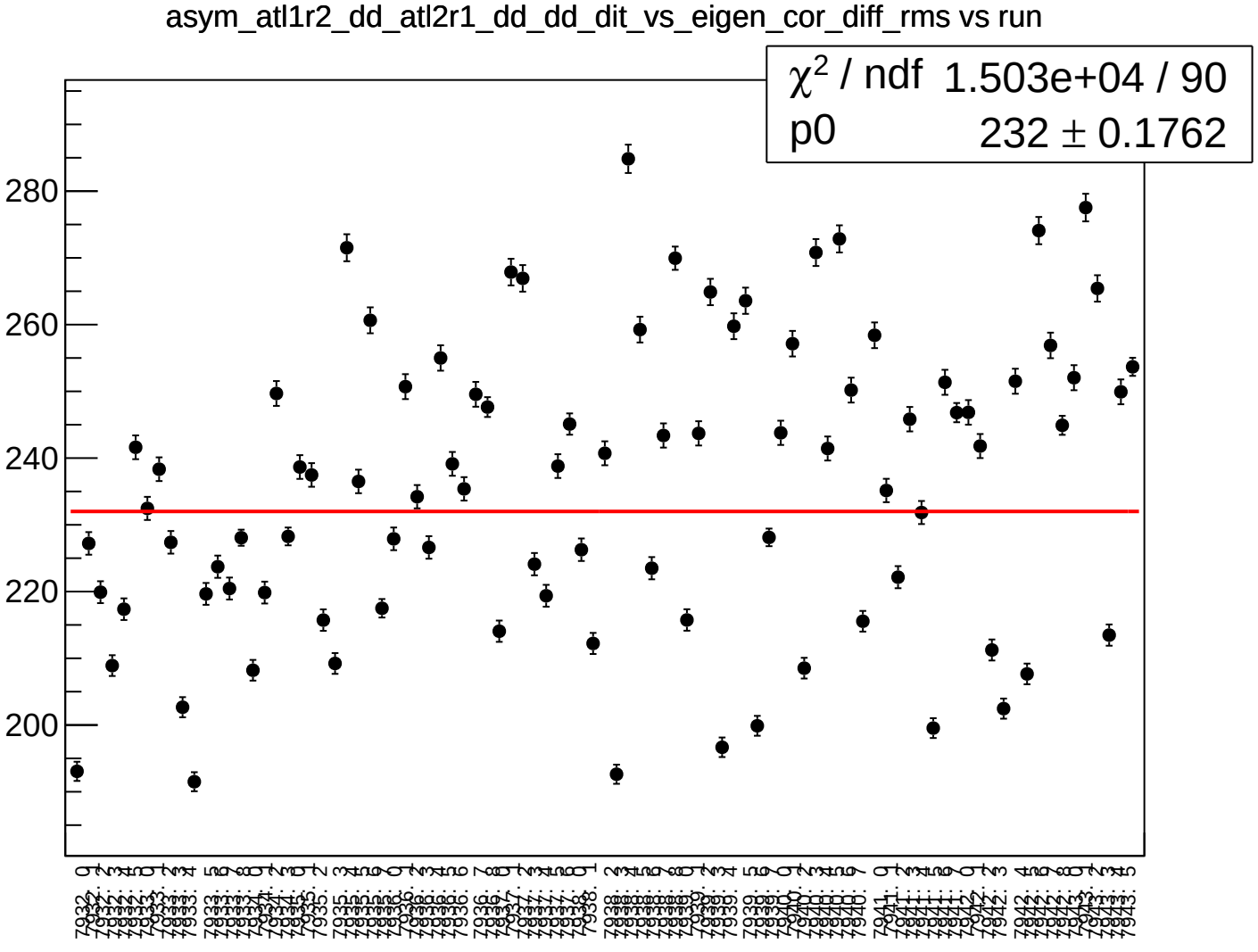

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

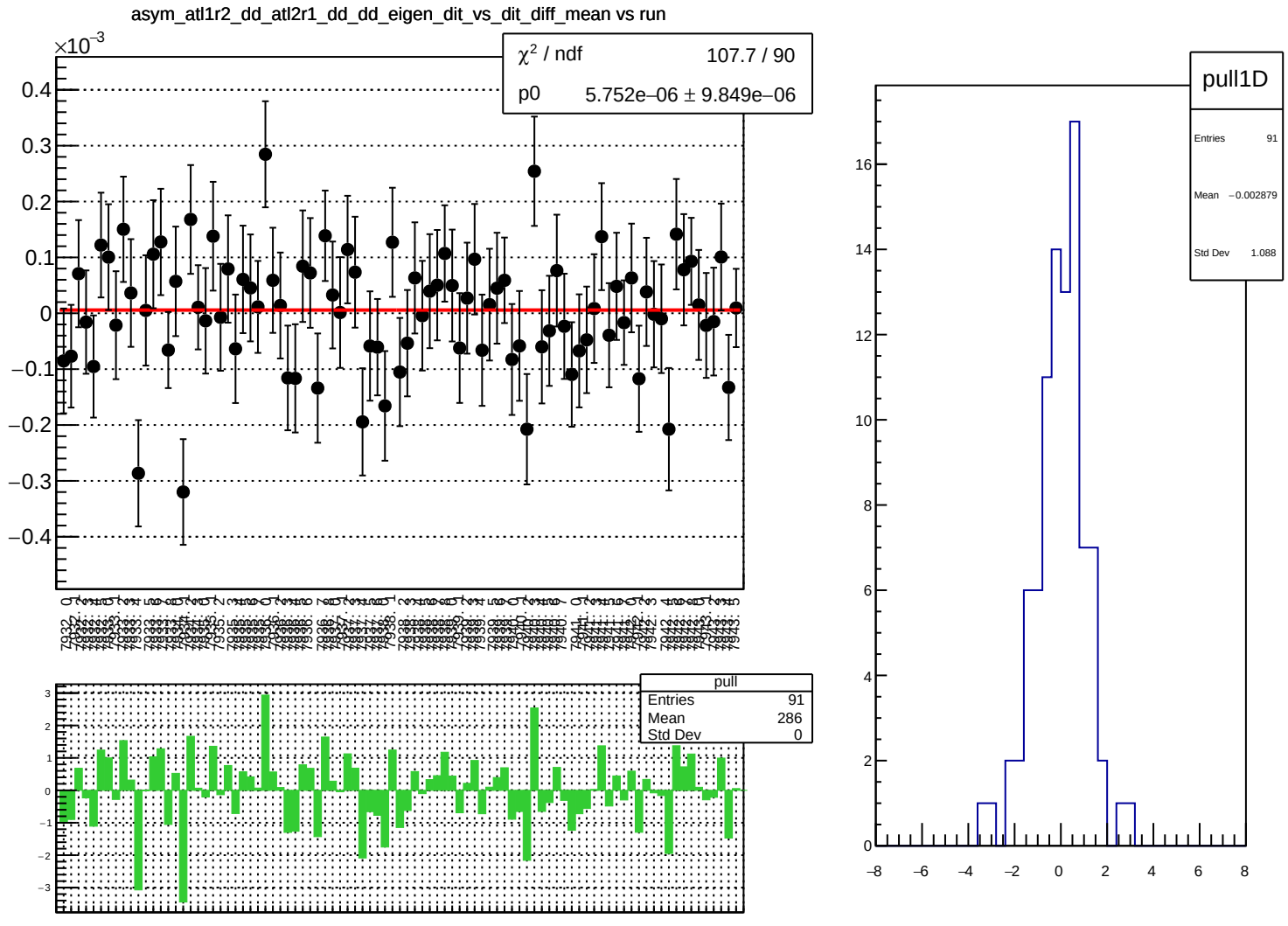

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

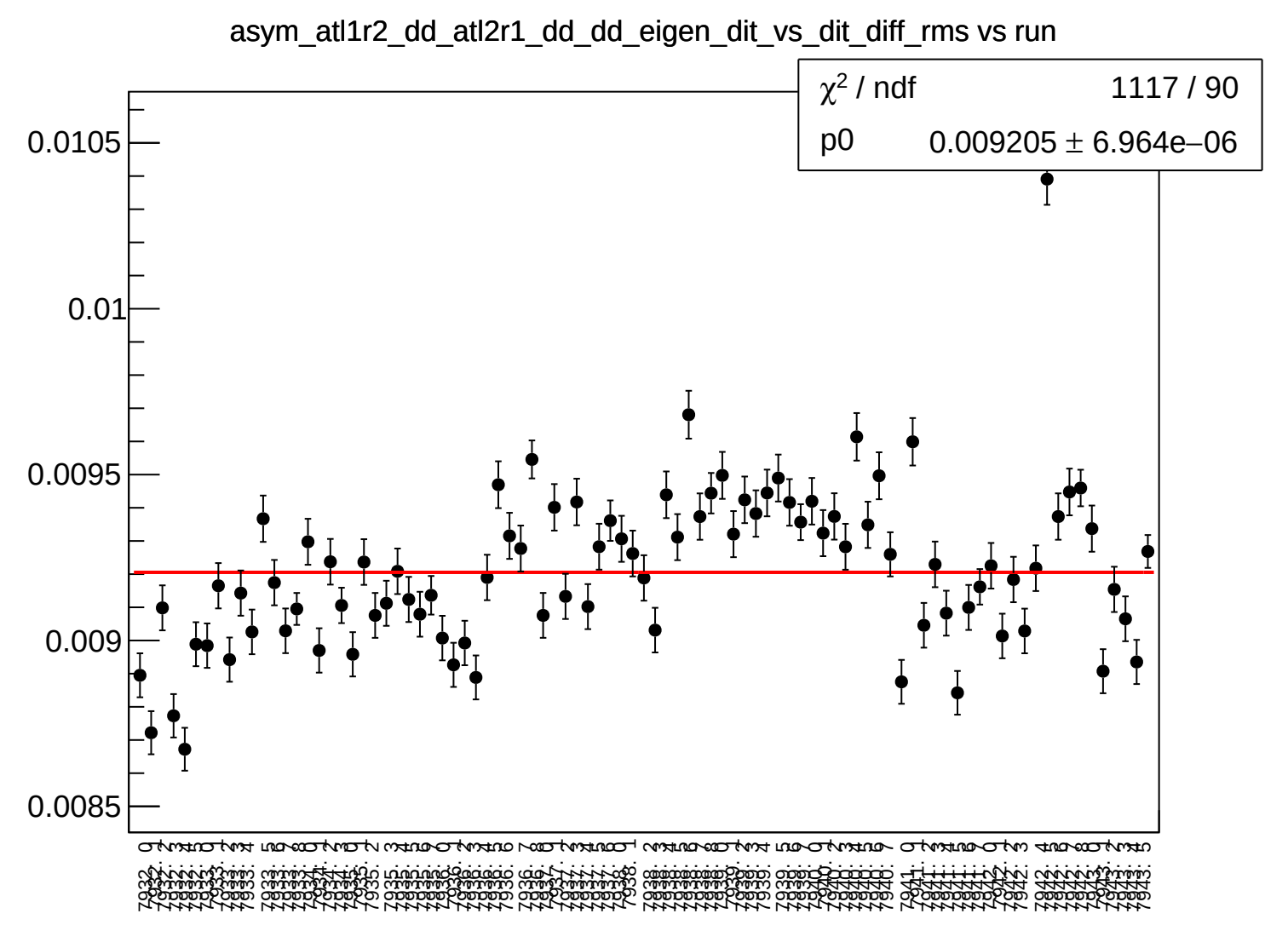

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

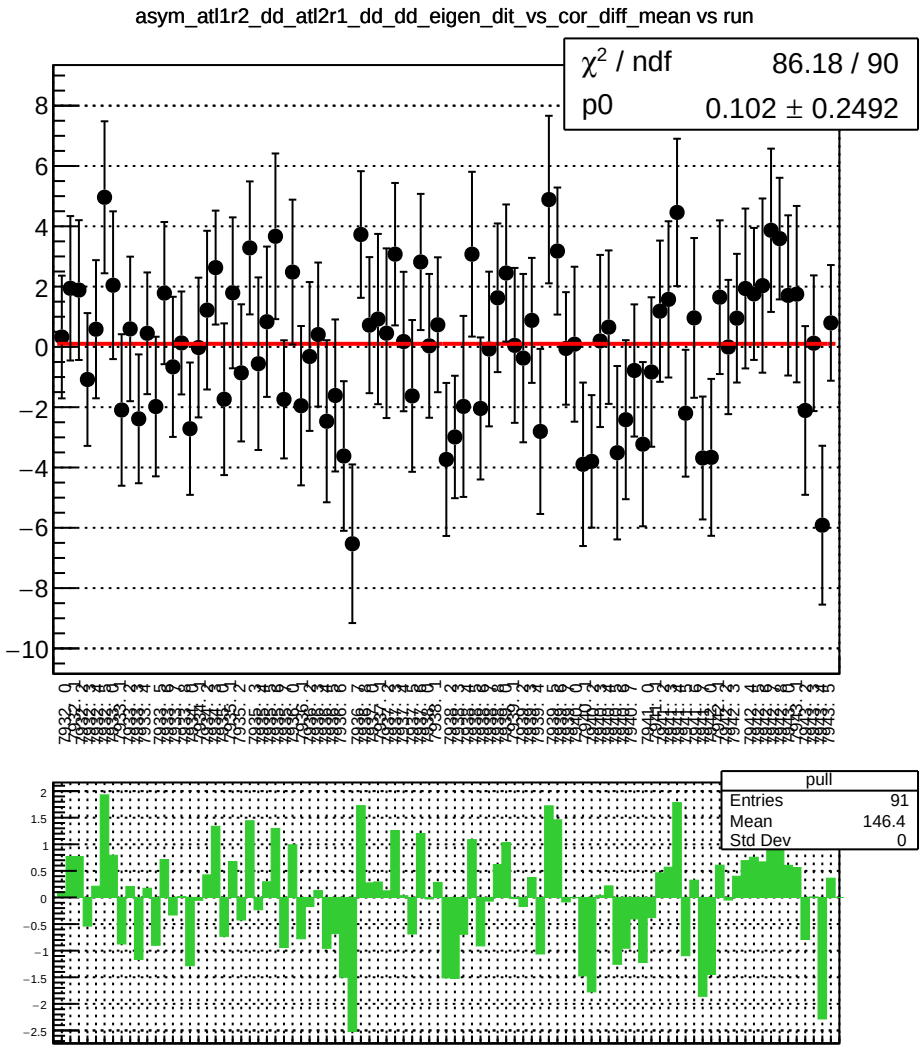

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

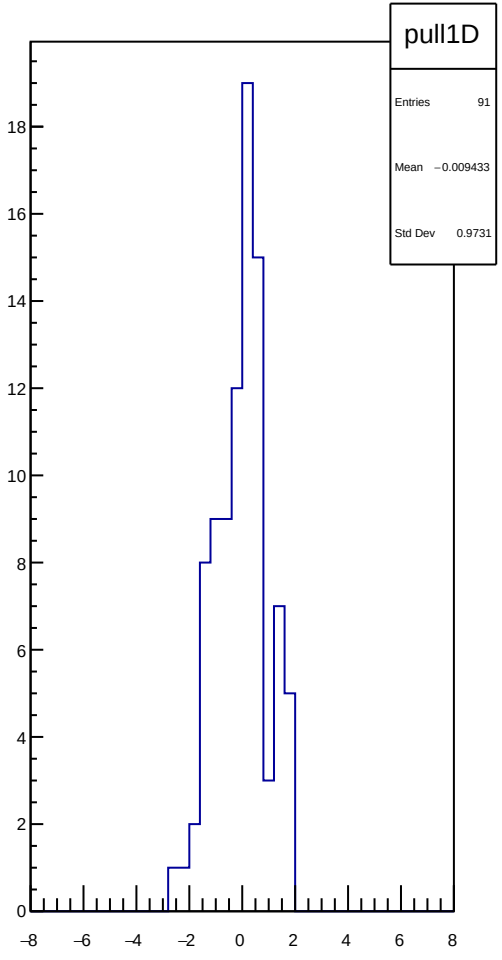

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

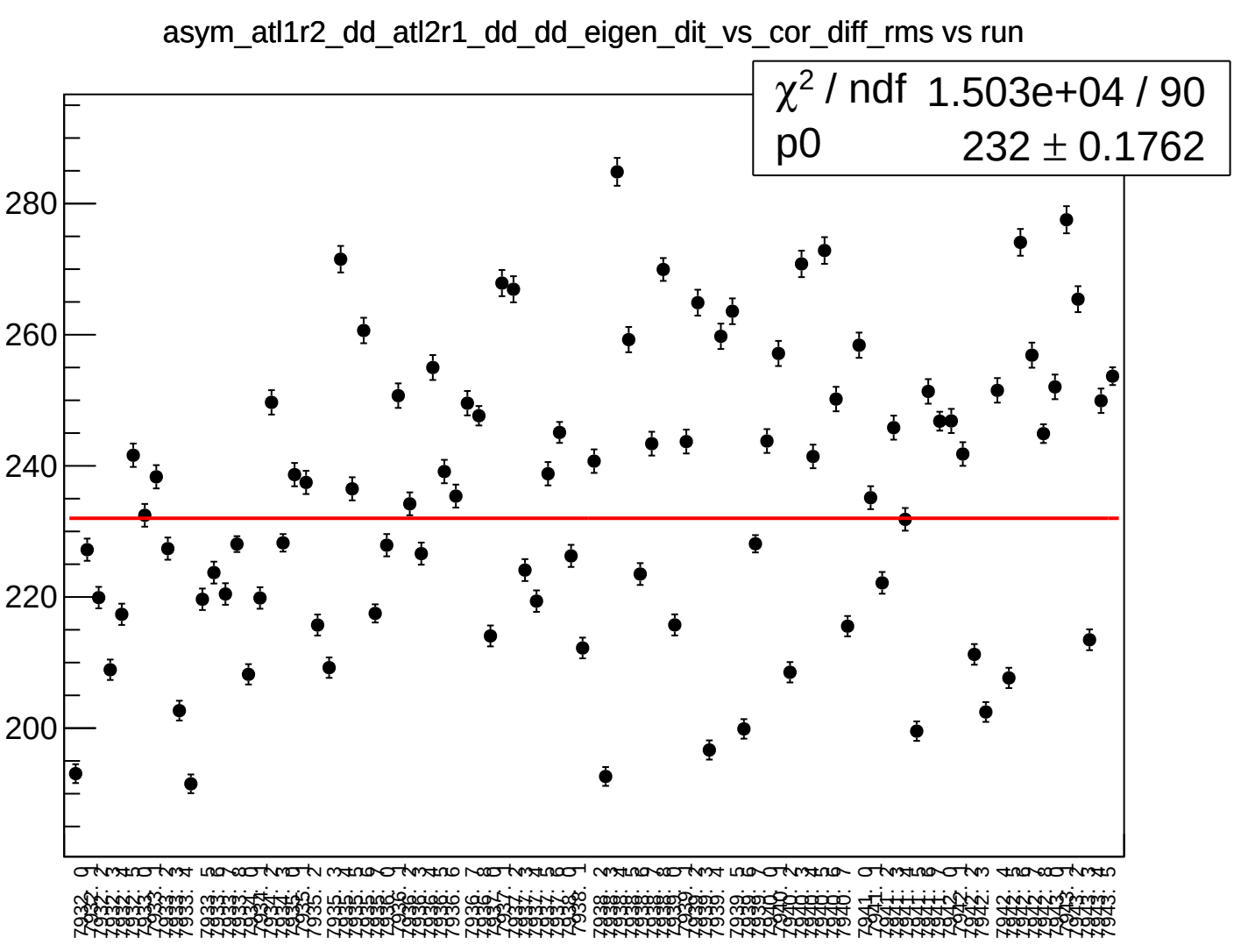

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

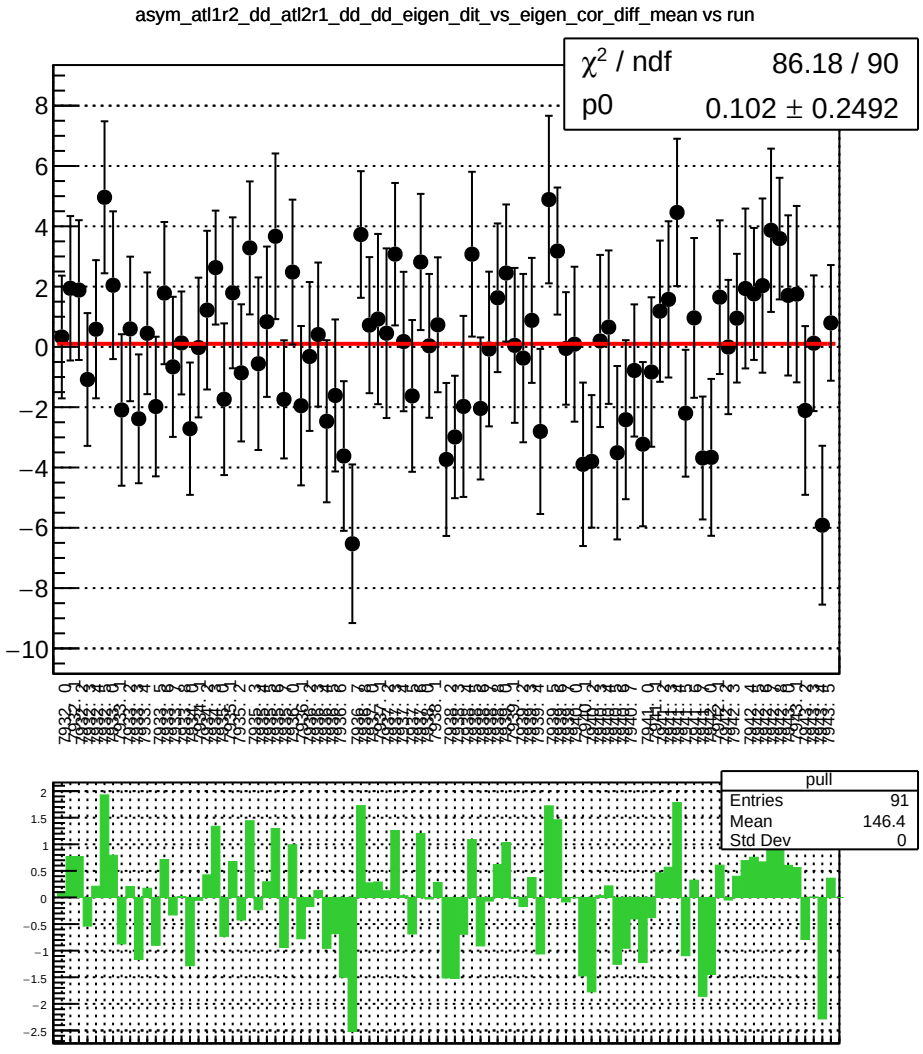

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.7 / 90
p0 5.752e−06 ± 9.849e−06
pull
Entries 91
Mean 286
Std Dev 0
pull1D
Entries 91
Mean −0.002879
Std Dev 1.088

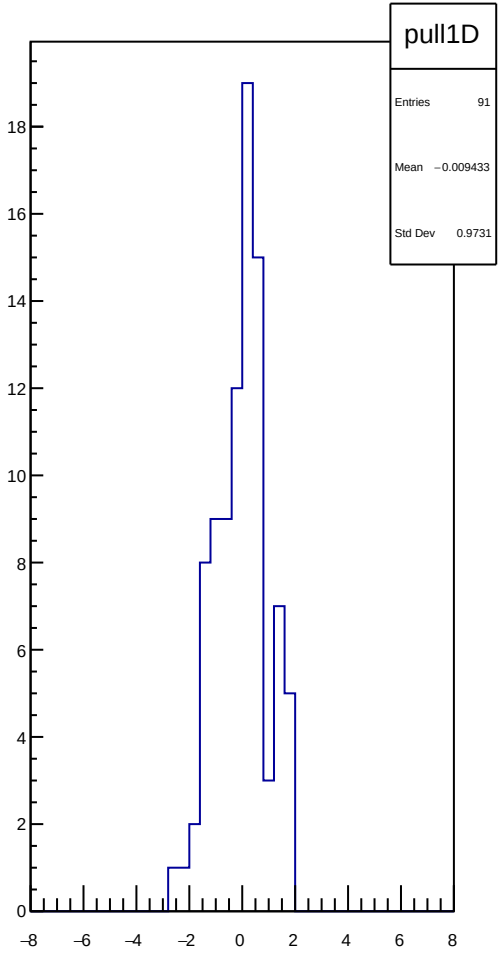

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1117 / 90
p0 0.009205 ± 6.964e−06
0.0105
0.01
0.0095
0.009
0.0085

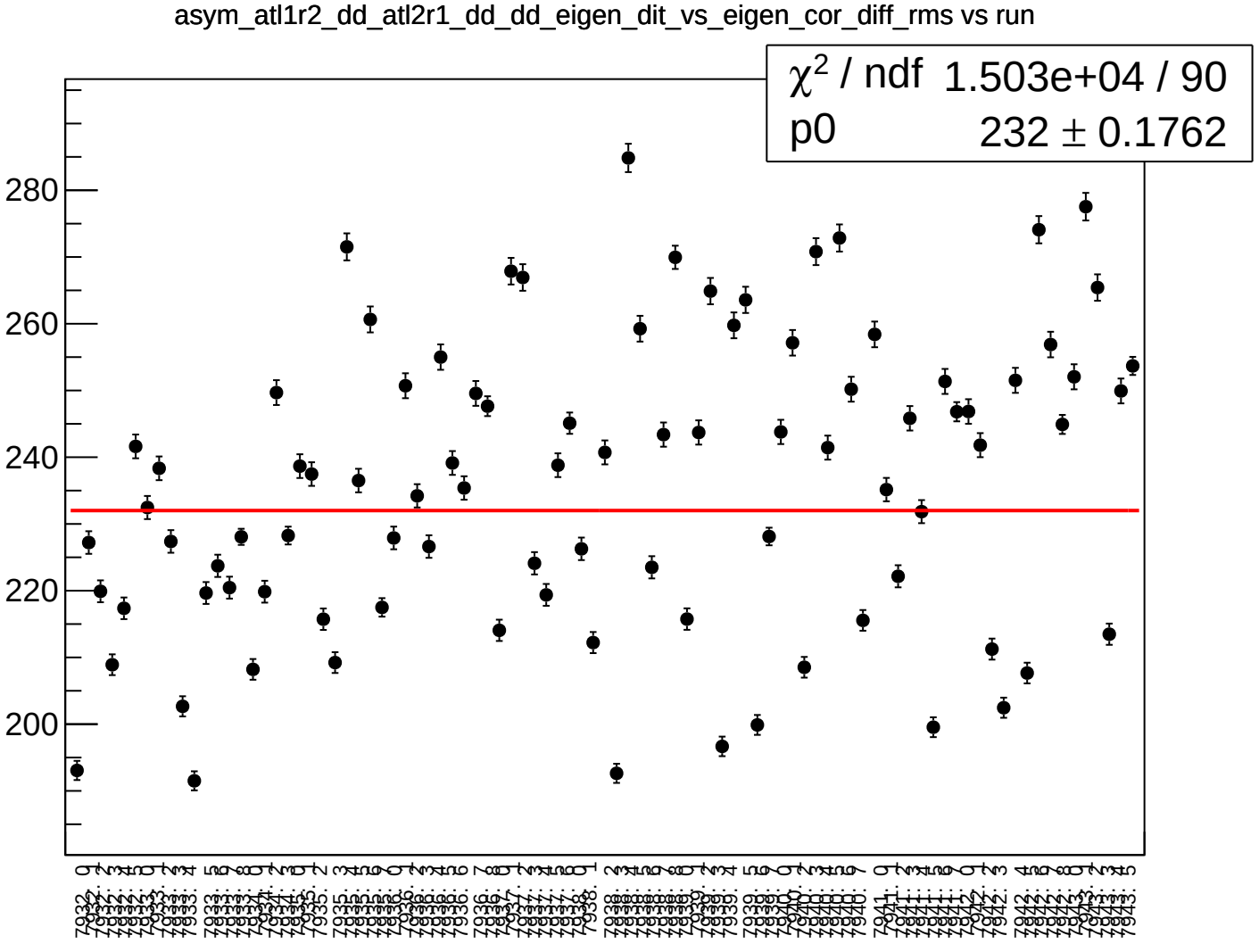

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

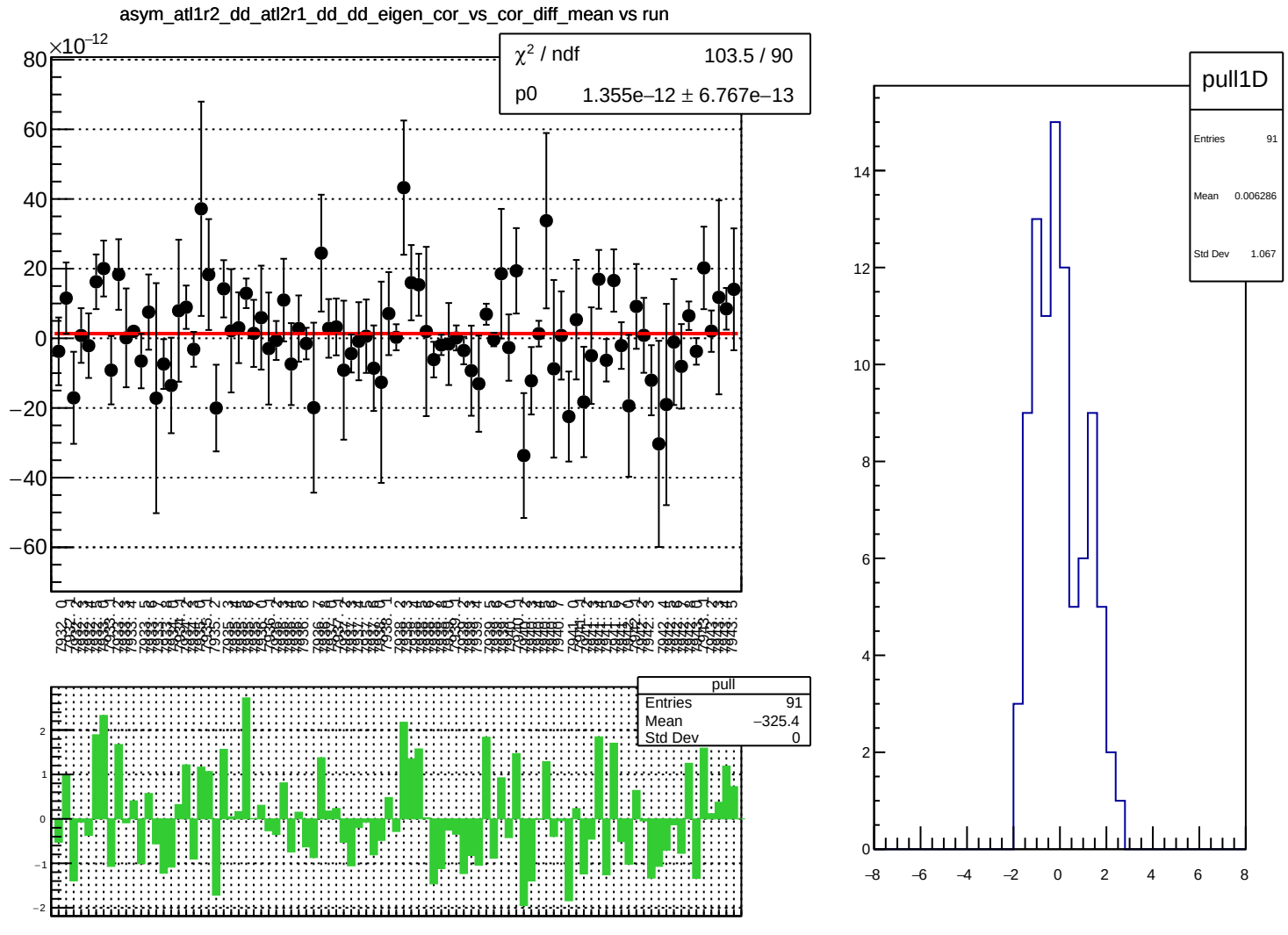

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

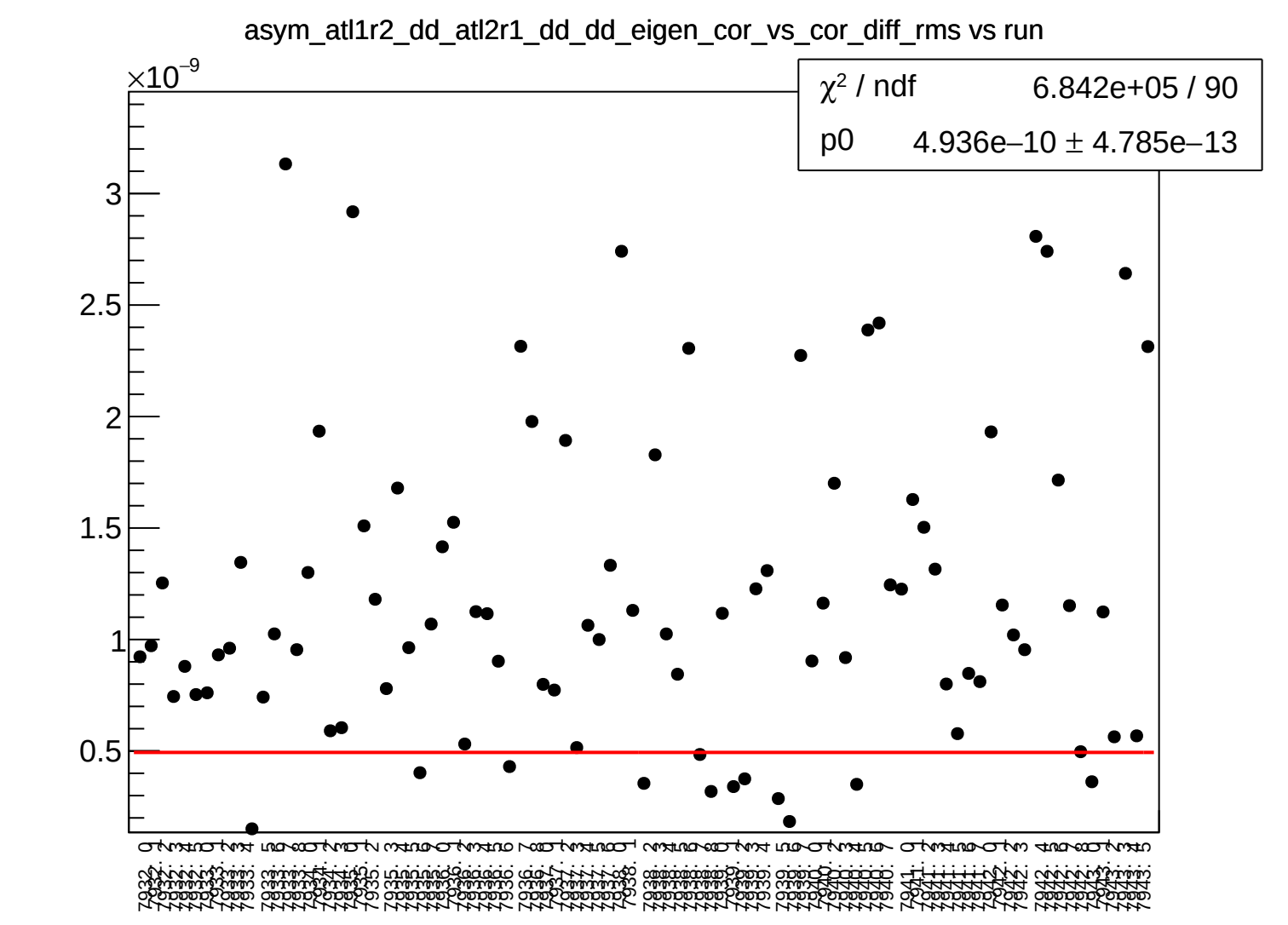

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

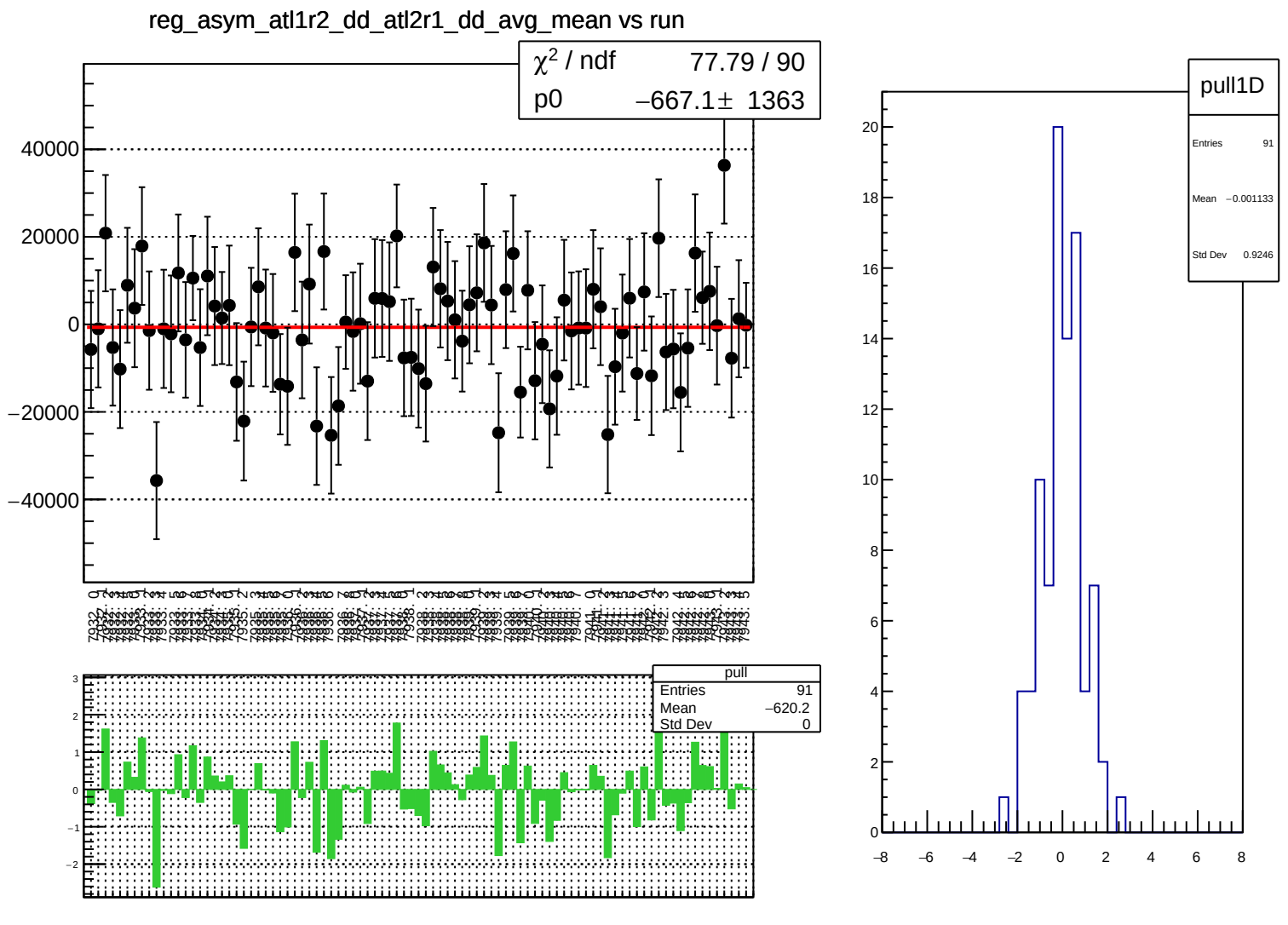

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 0.102 ± 0.2492
pull
Entries 91
Mean 146.4
Std Dev 0

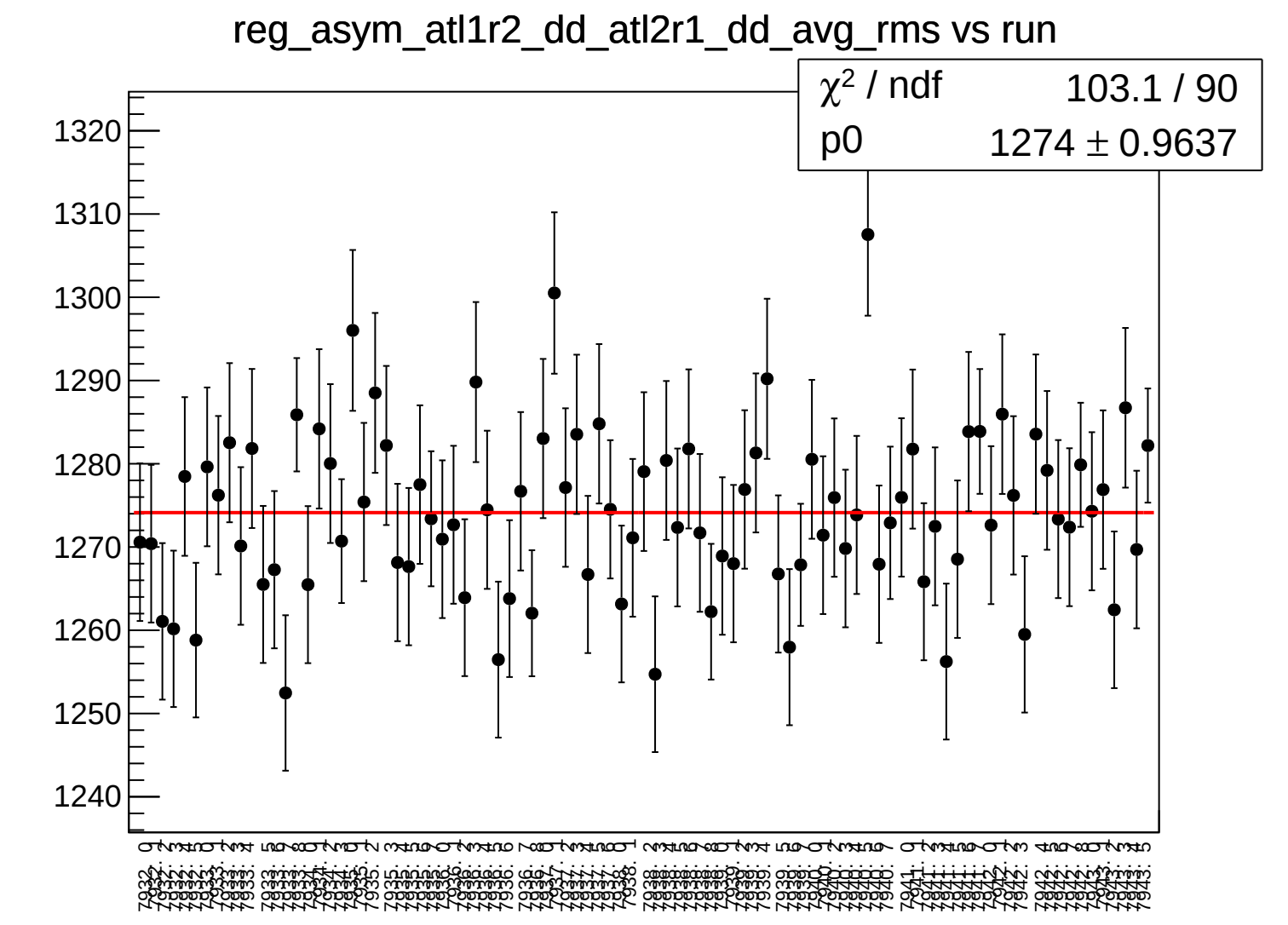

pull1D
Entries 91
Mean −0.009433
Std Dev 0.9731

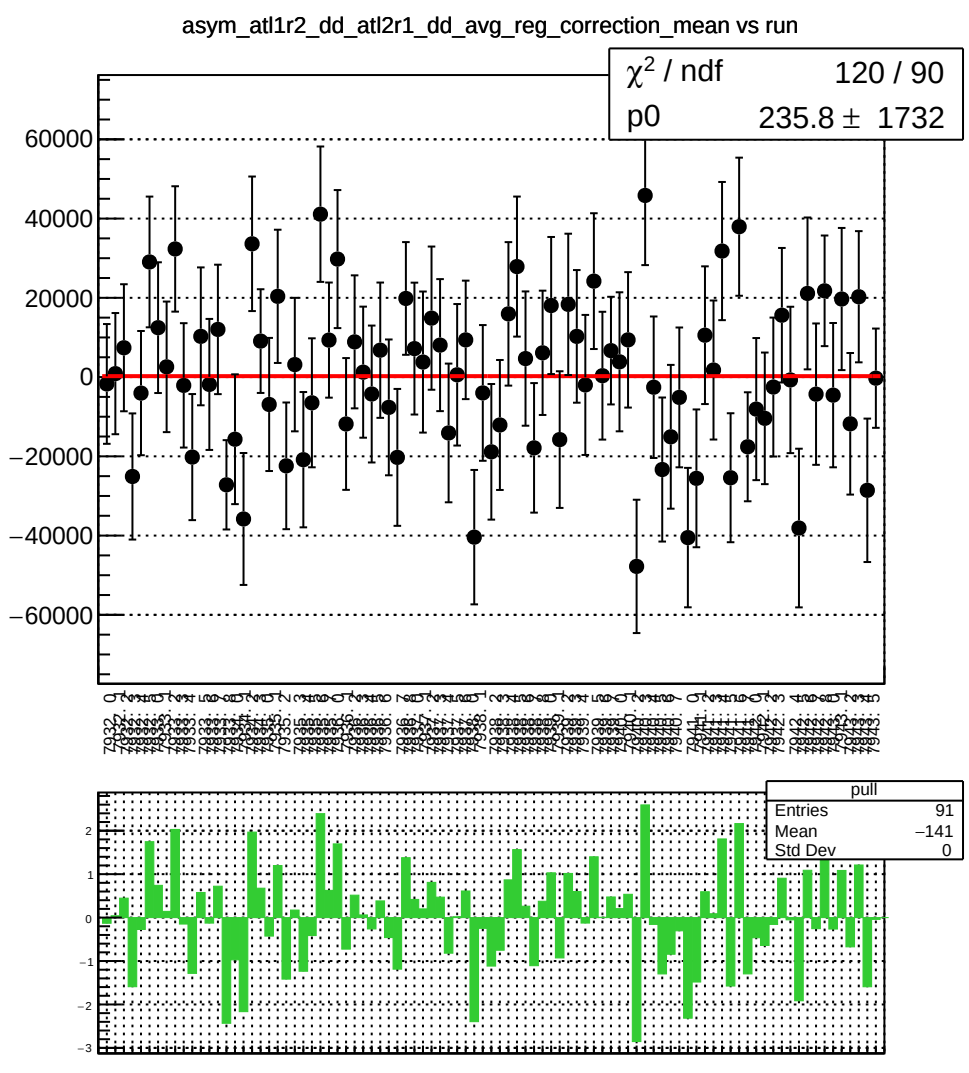

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.503e+04 / 90
p0 232 ± 0.1762
280
260
240
220
200

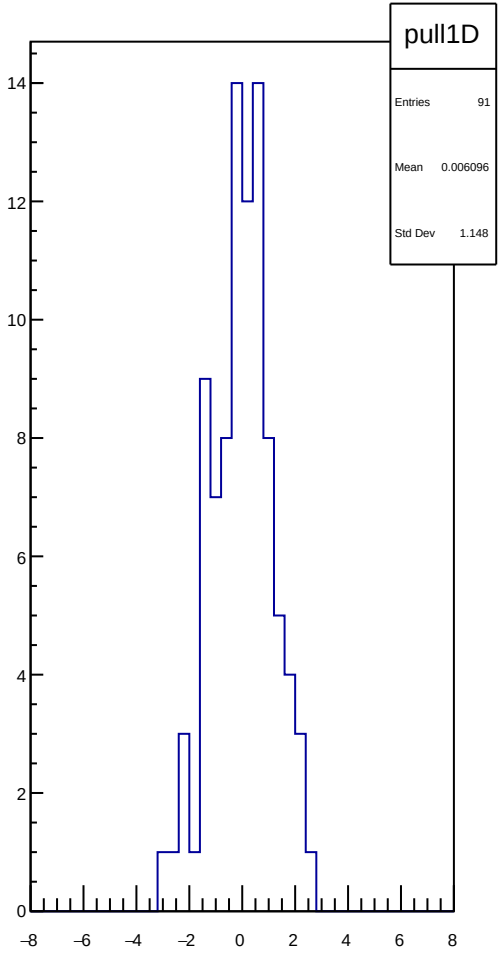

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 103.5 / 90
p0 1.355e−12 ± 6.767e−13
pull
Entries 91
Mean −325.4
Std Dev 0
pull1D
Entries 91
Mean 0.006286
Std Dev 1.067

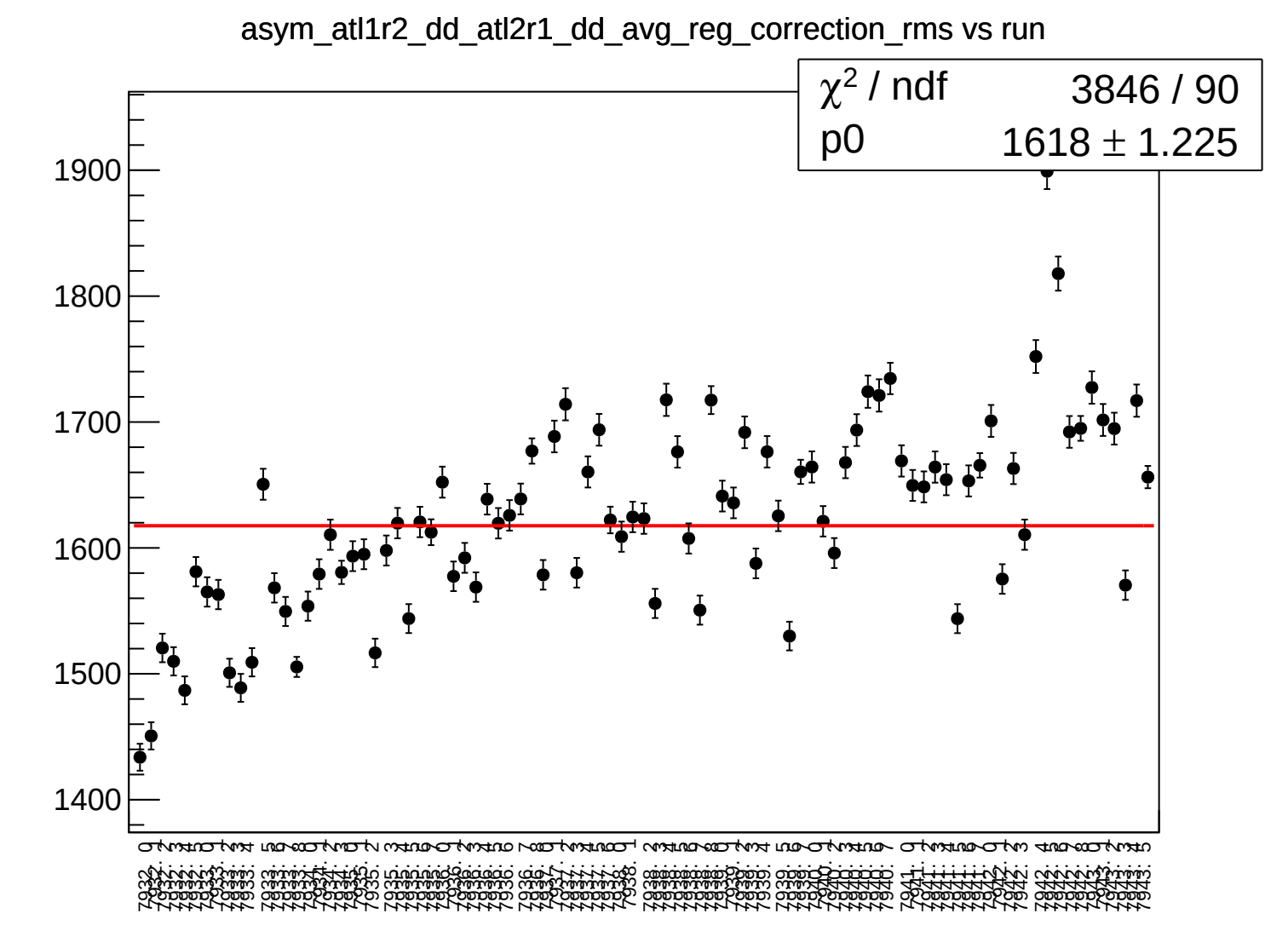

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.842e+05 / 90
p0 4.936e−10 ± 4.785e−13
3
2.5
2
1.5
1
0.5

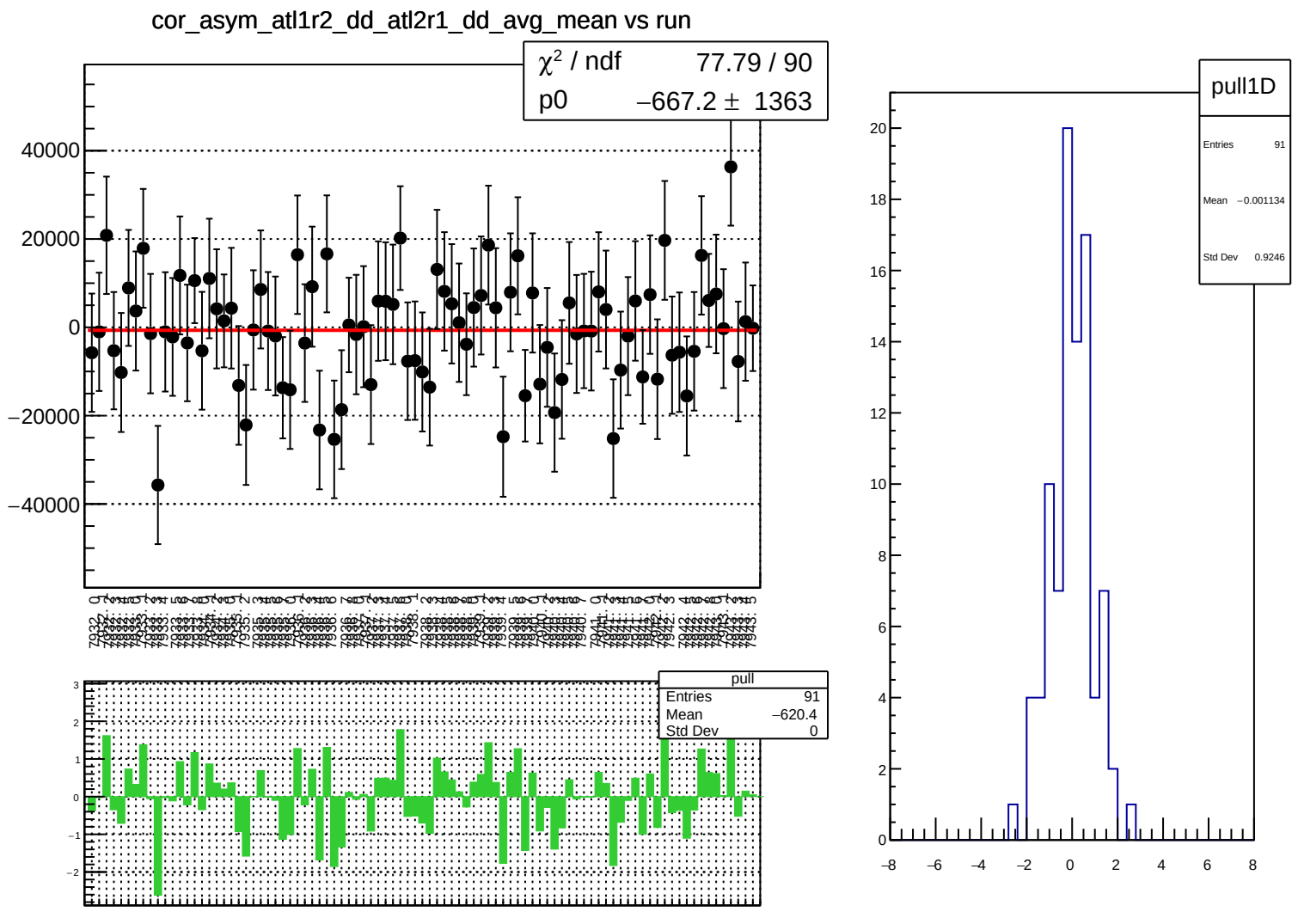

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.79 / 90
p0 −667.1± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −620.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001133
Std Dev 0.9246
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

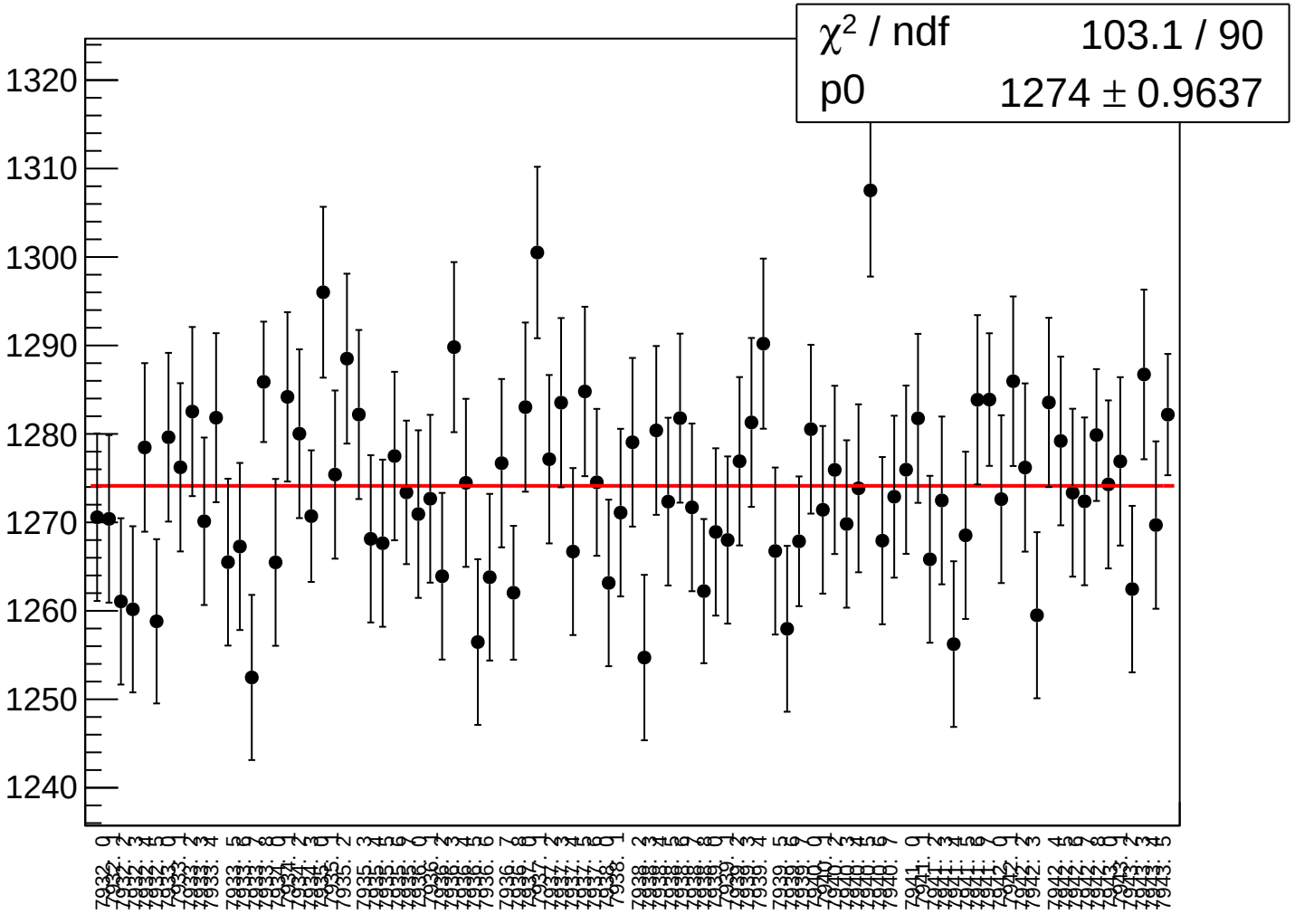

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 103.1 / 90
p0 1274 ± 0.9637
1320
1310
1300
1290
1280
1270
1260
1250
1240

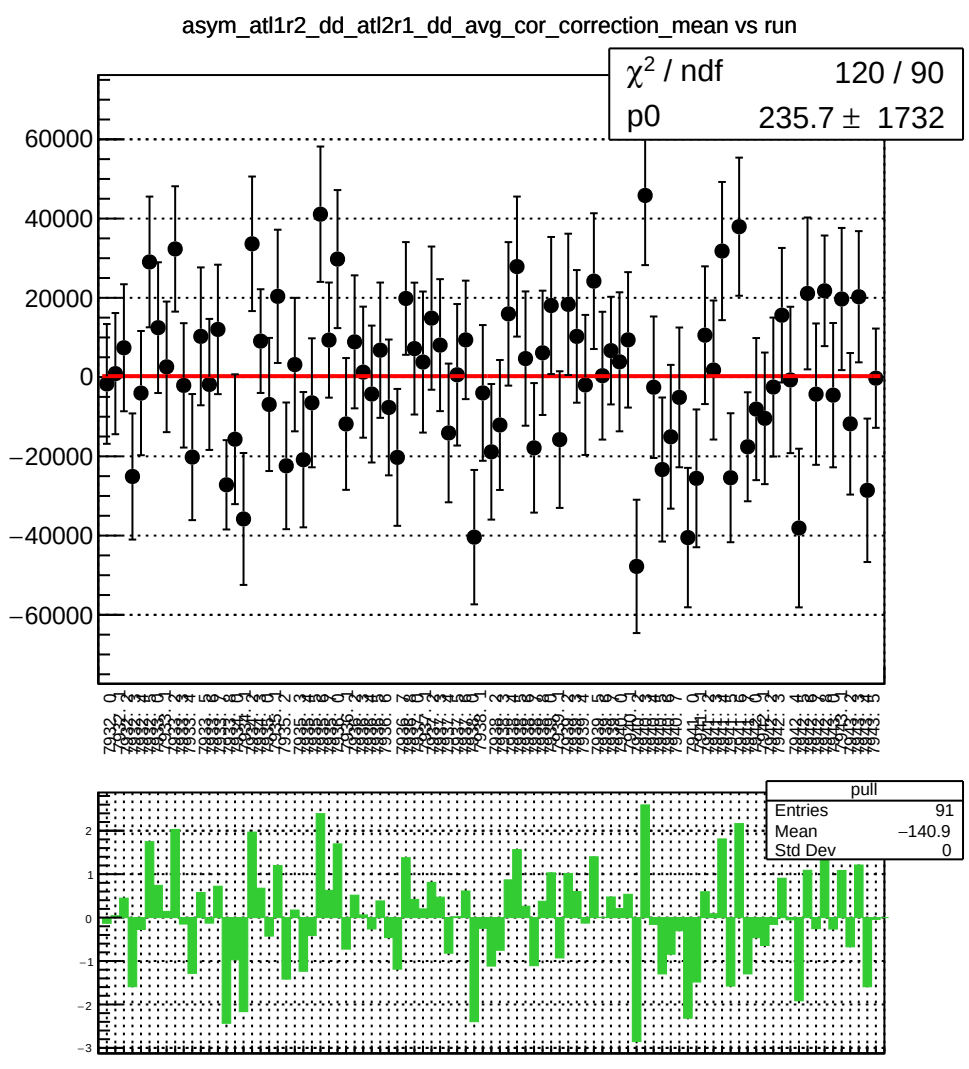

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 120 / 90
p0 235.8 ± 1732
pull
Entries 91
Mean −141
Std Dev 0

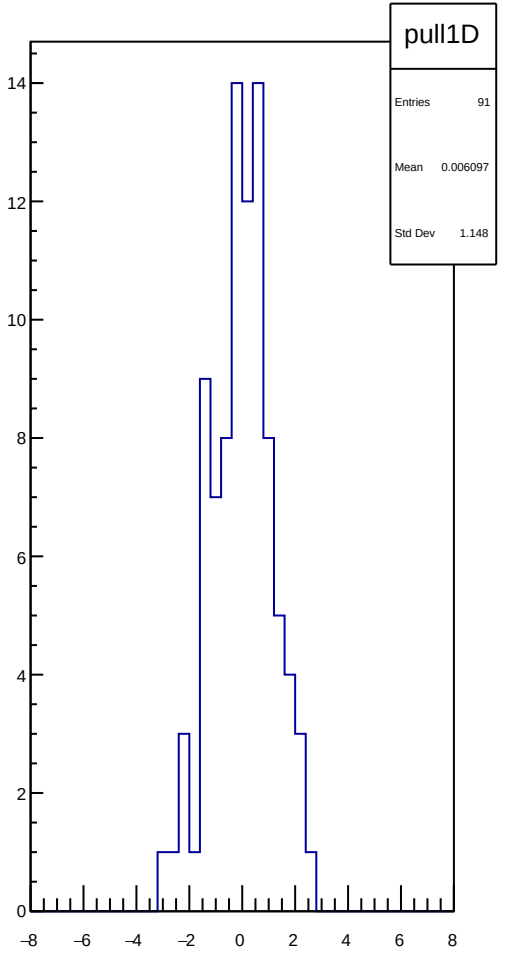

pull1D
Entries 91
Mean 0.006096
Std Dev 1.148

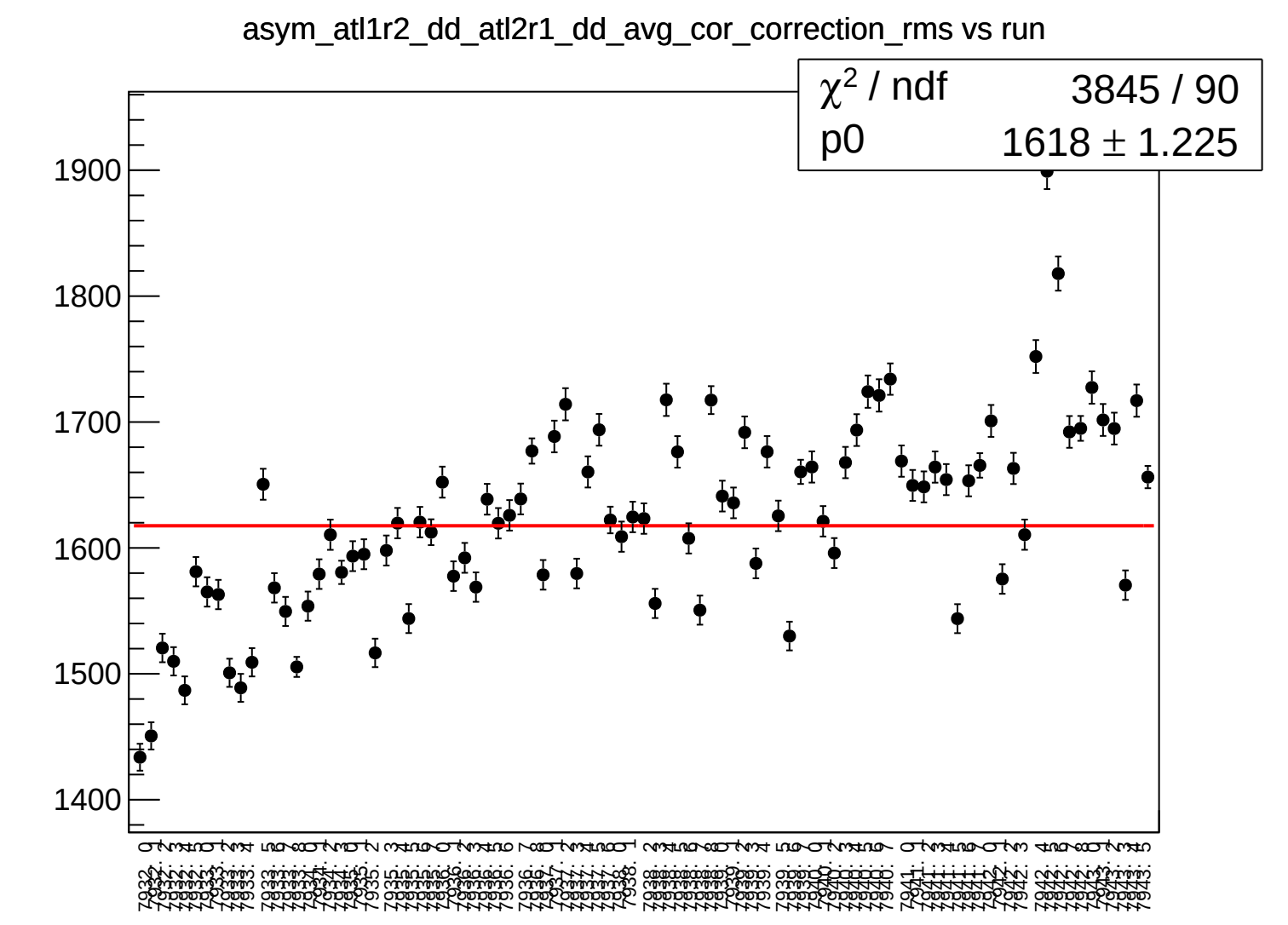

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3846 / 90
p0 1618 ± 1.225
1900
1800
1700
1600
1500
1400

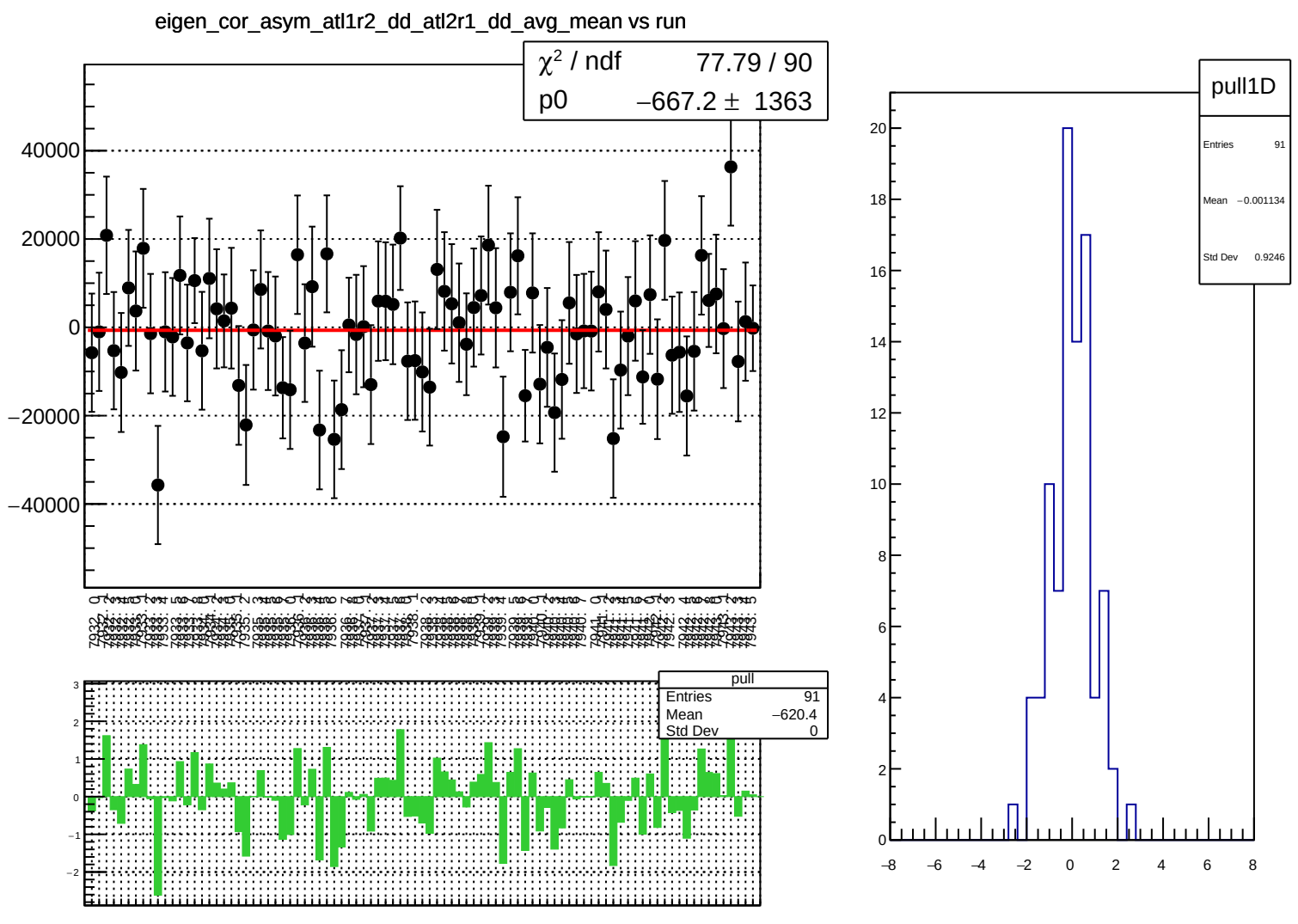

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.79 / 90
p0 −667.2 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −620.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001134
Std Dev 0.9246
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

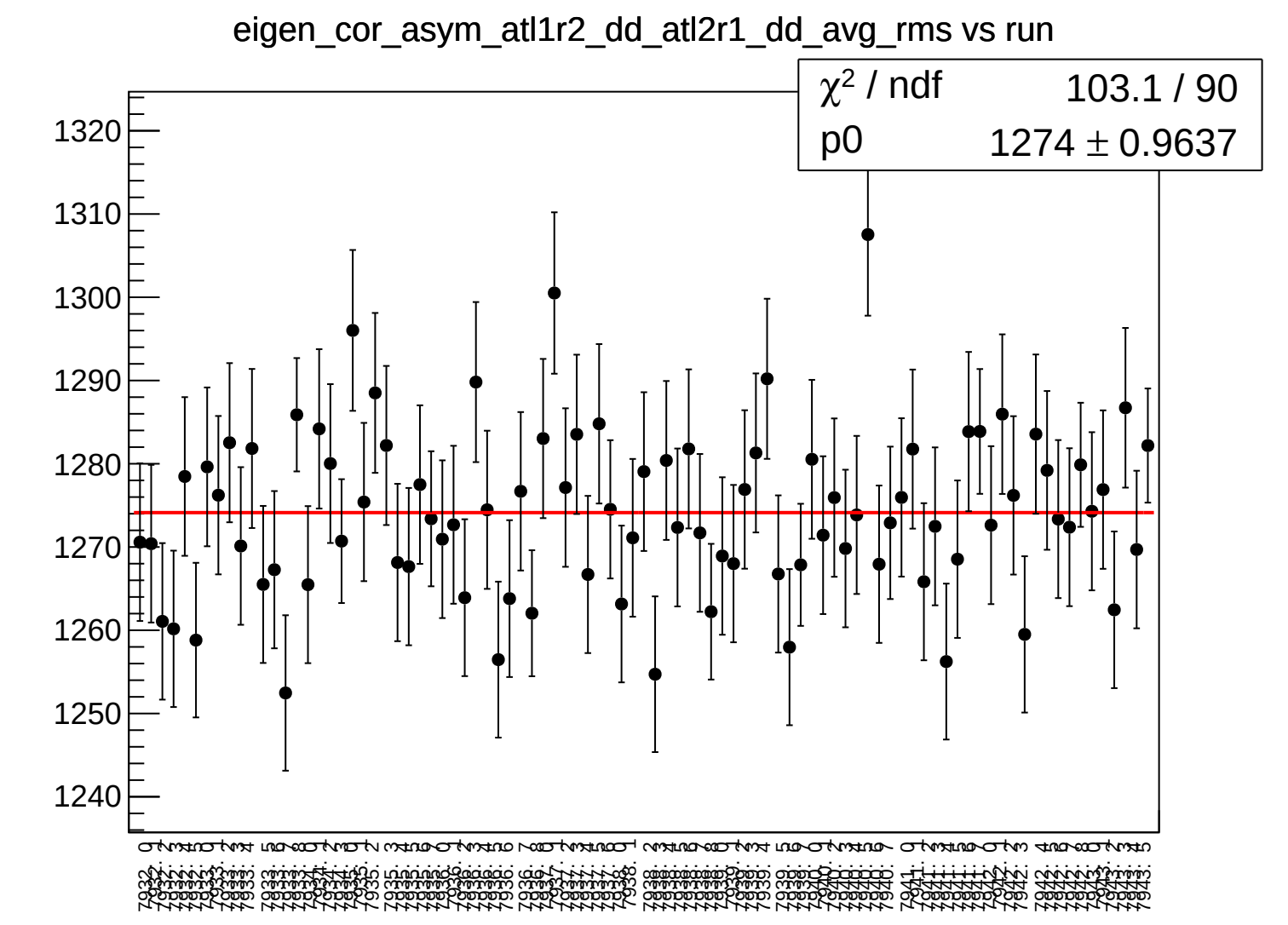

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 103.1 / 90
p0 1274 ± 0.9637
1320
1310
1300
1290
1280
1270
1260
1250
1240

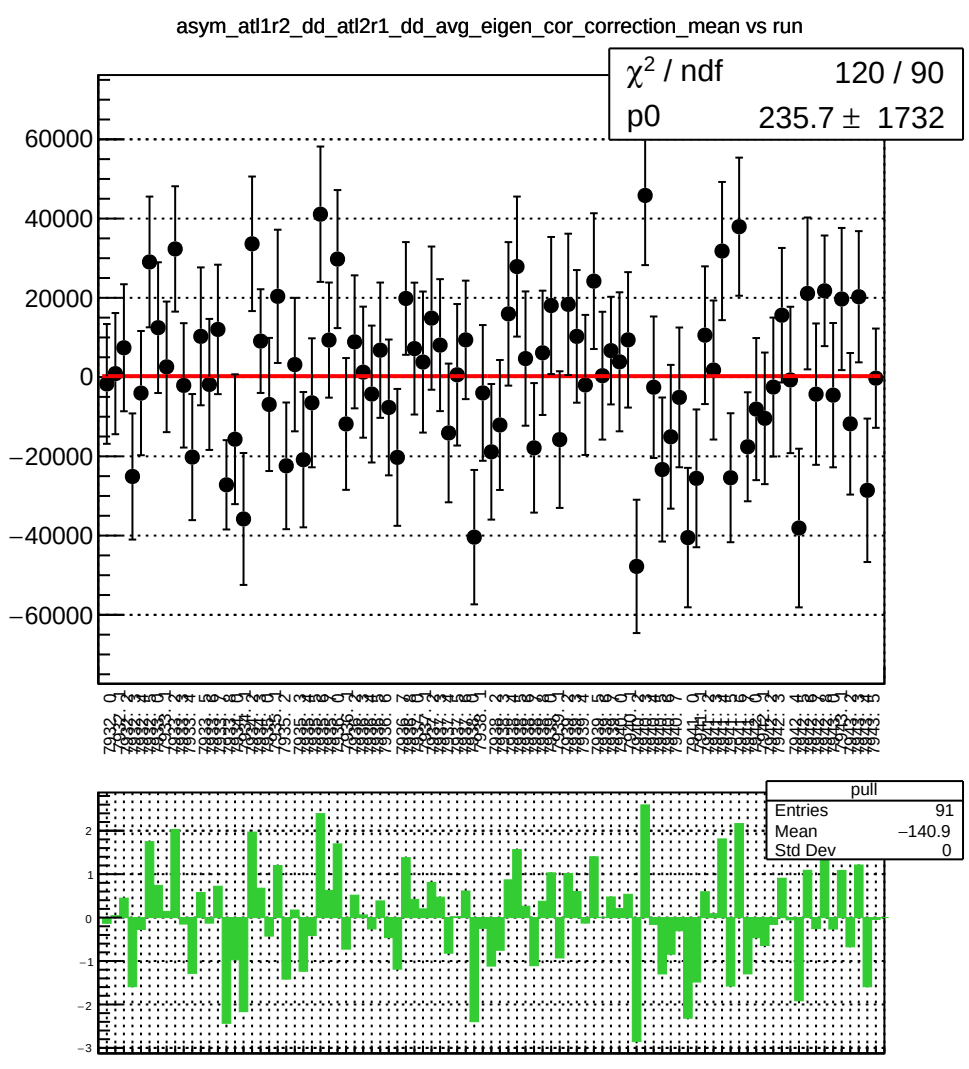

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 120 / 90
p0 235.7 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −140.9
Std Dev 0
2
1
0
−1
−2
−3

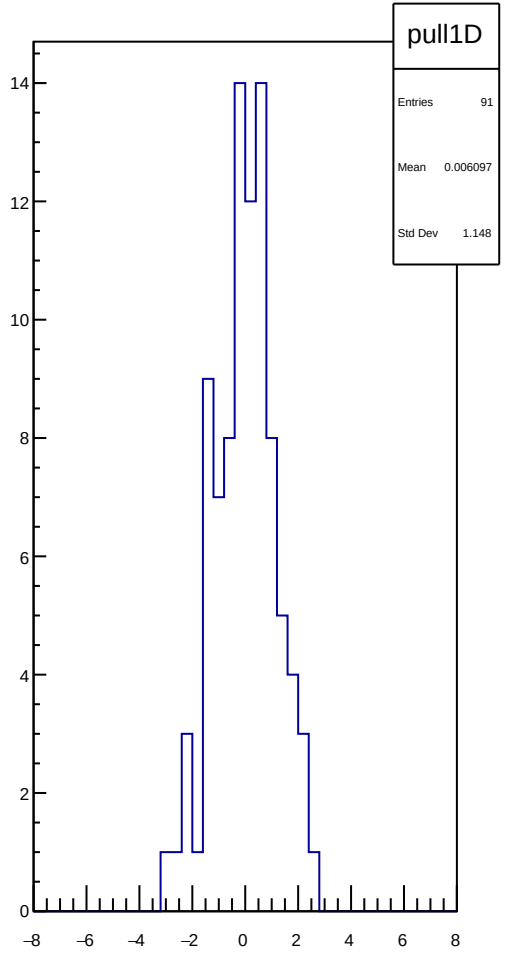

pull1D
Entries 91
Mean 0.006097
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

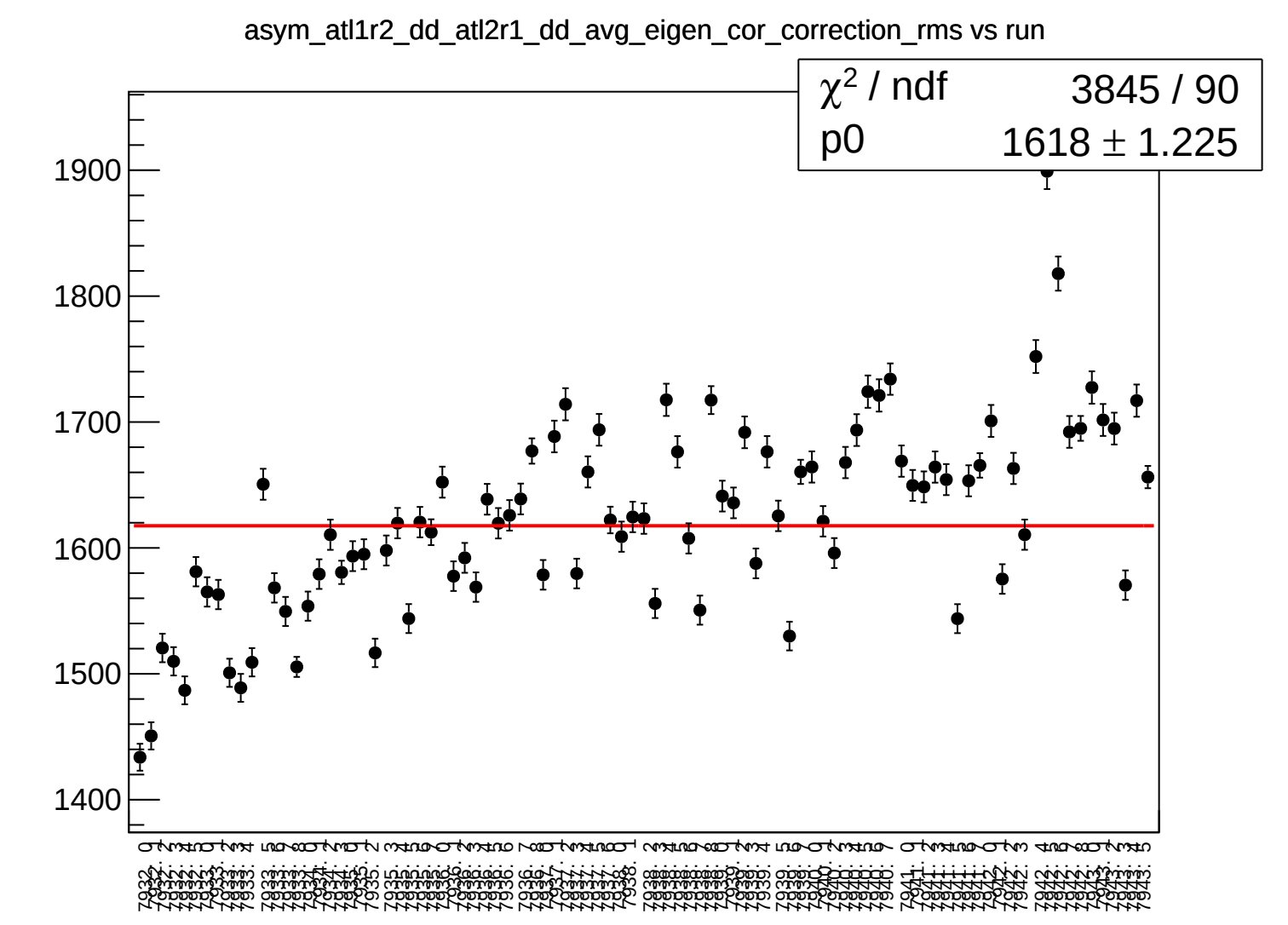

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3845 / 90
p0 1618 ± 1.225
1900
1800
1700
1600
1500
1400

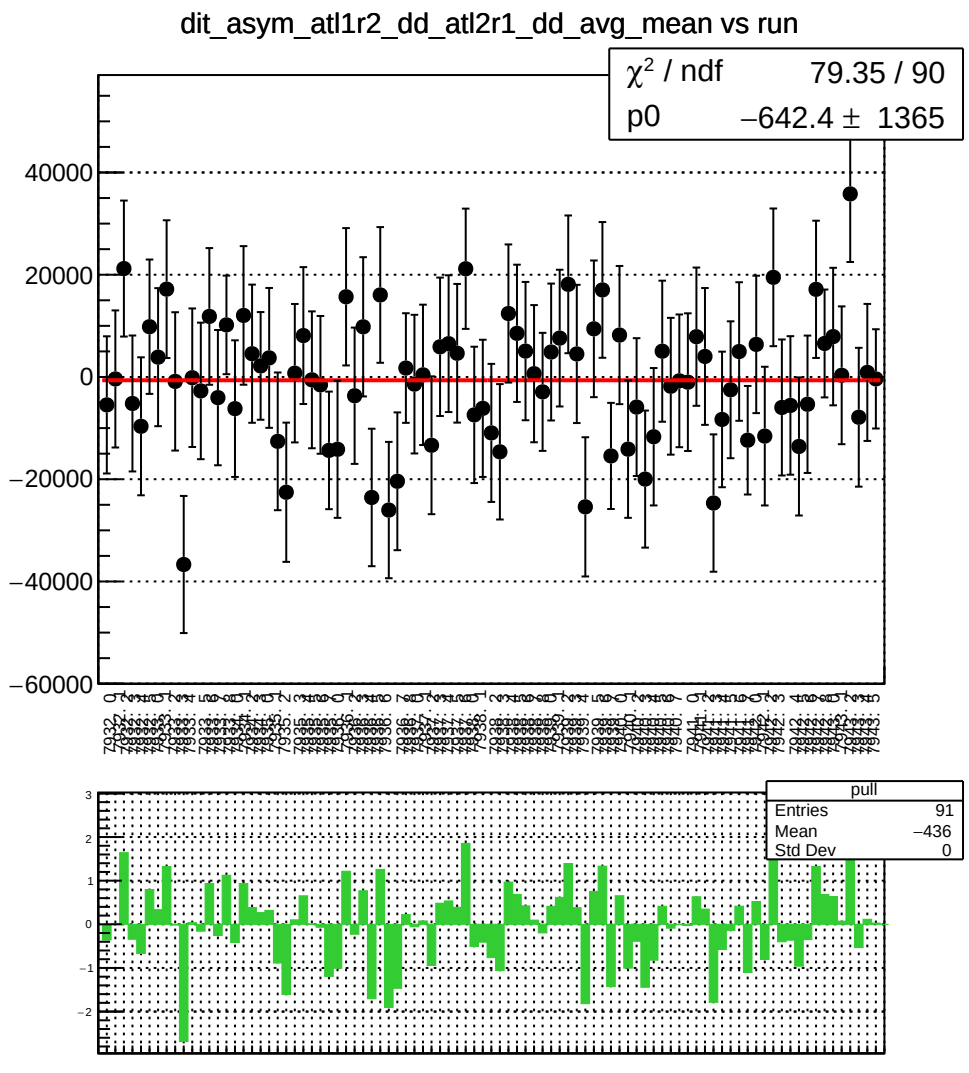

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.79 / 90
p0 −667.2 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −620.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001134
Std Dev 0.9246
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

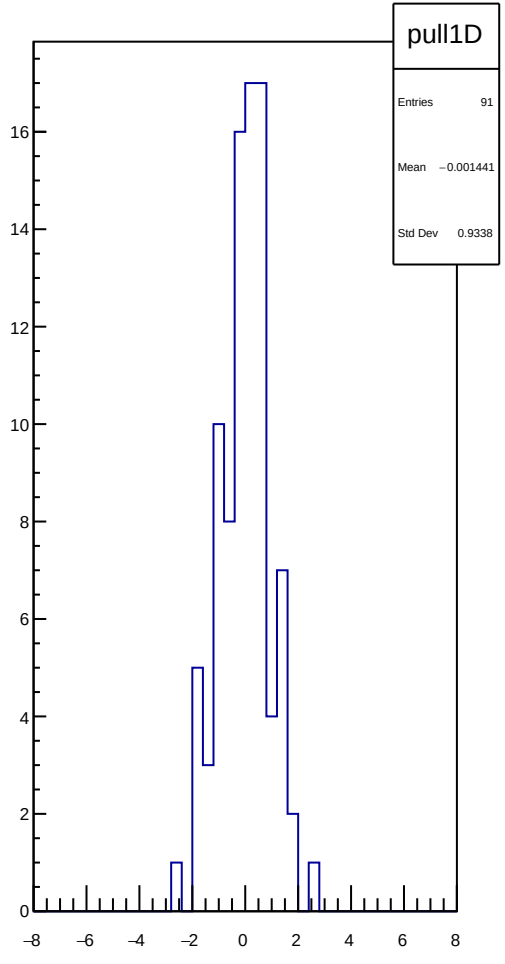

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 103.1 / 90
p0 1274 ± 0.9637
1320
1310
1300
1290
1280
1270
1260
1250
1240

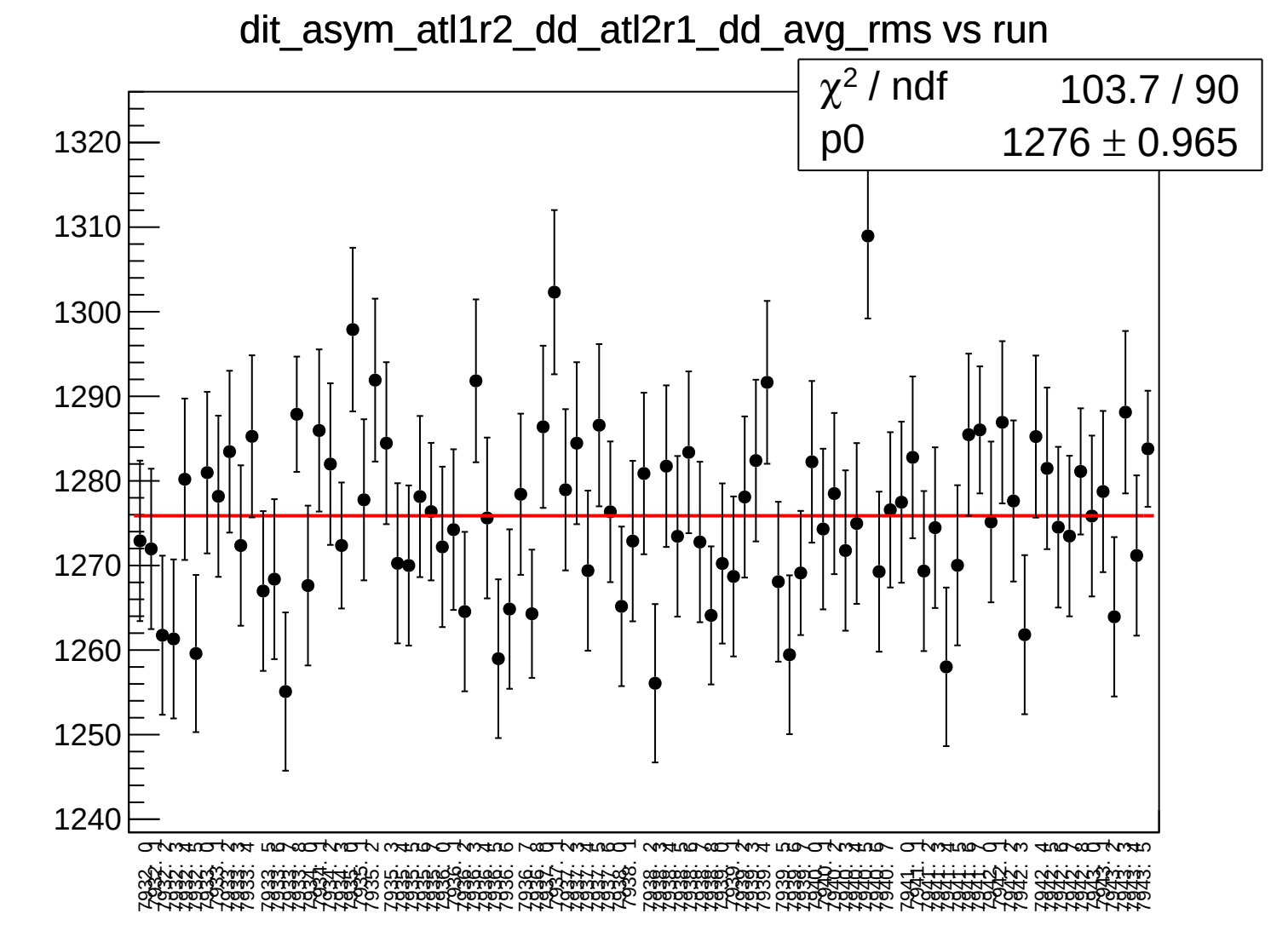

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 120 / 90
p0 235.7 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −140.9
Std Dev 0
2
1
0
−1
−2
−3

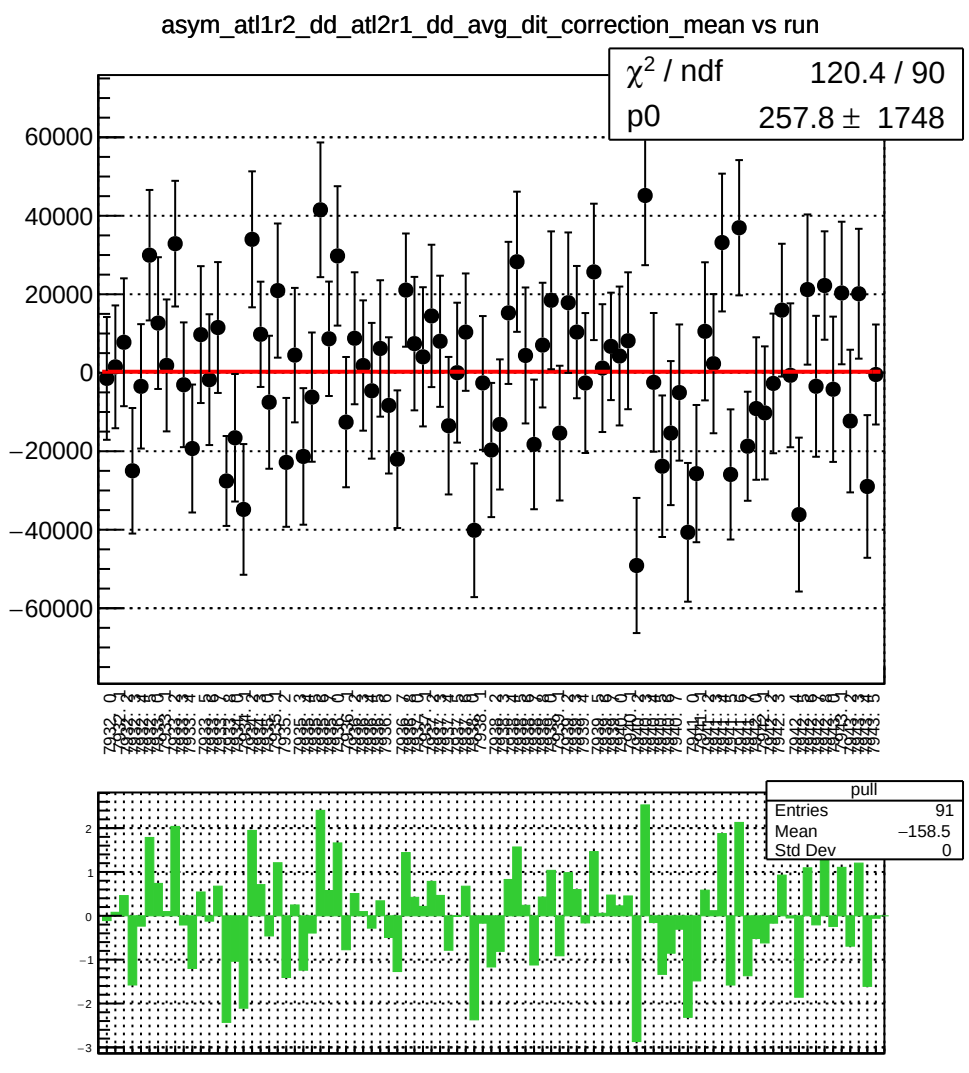

pull1D
Entries 91
Mean 0.006097
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

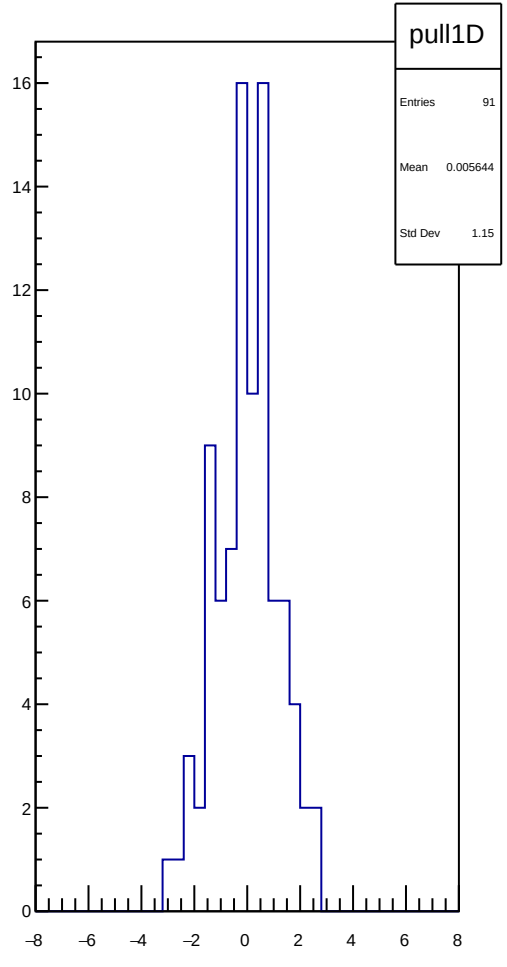

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3845 / 90
p0 1618 ± 1.225
1900
1800
1700
1600
1500
1400

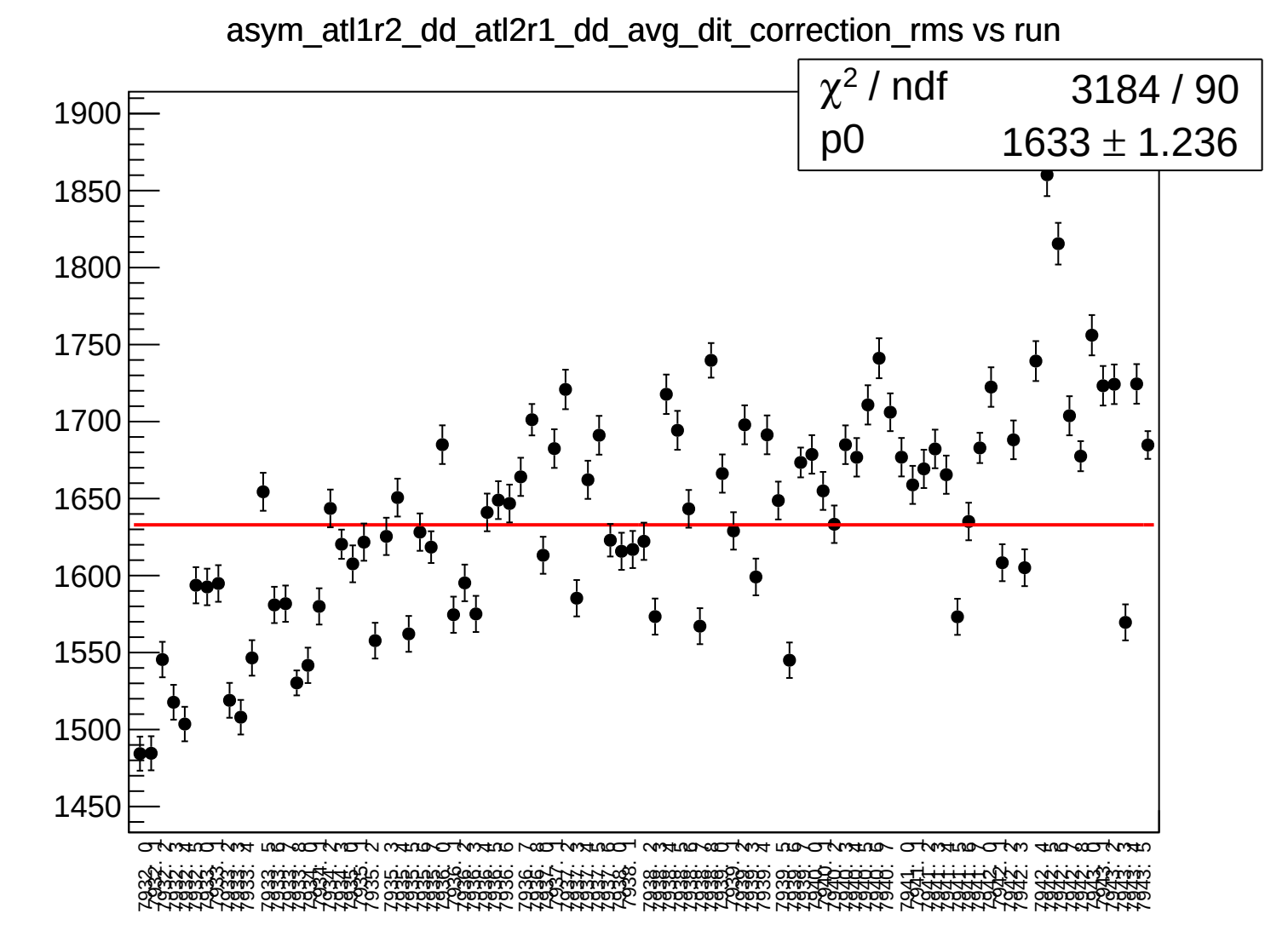

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.35 / 90
p0 −642.4 ± 1365
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −436
Std Dev 0
3
2
1
0
−1
−2

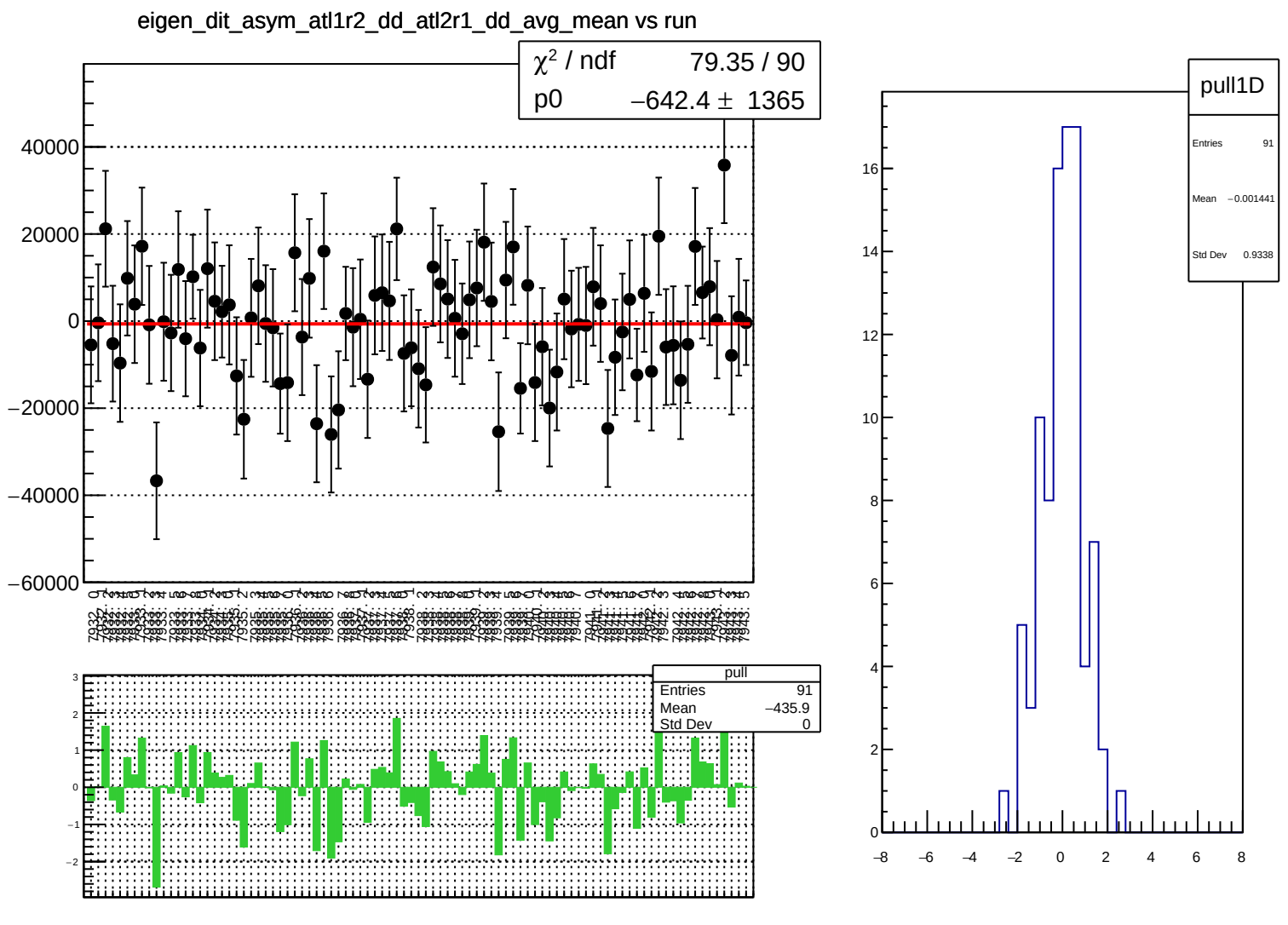

pull1D
Entries 91
Mean −0.001441
Std Dev 0.9338
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

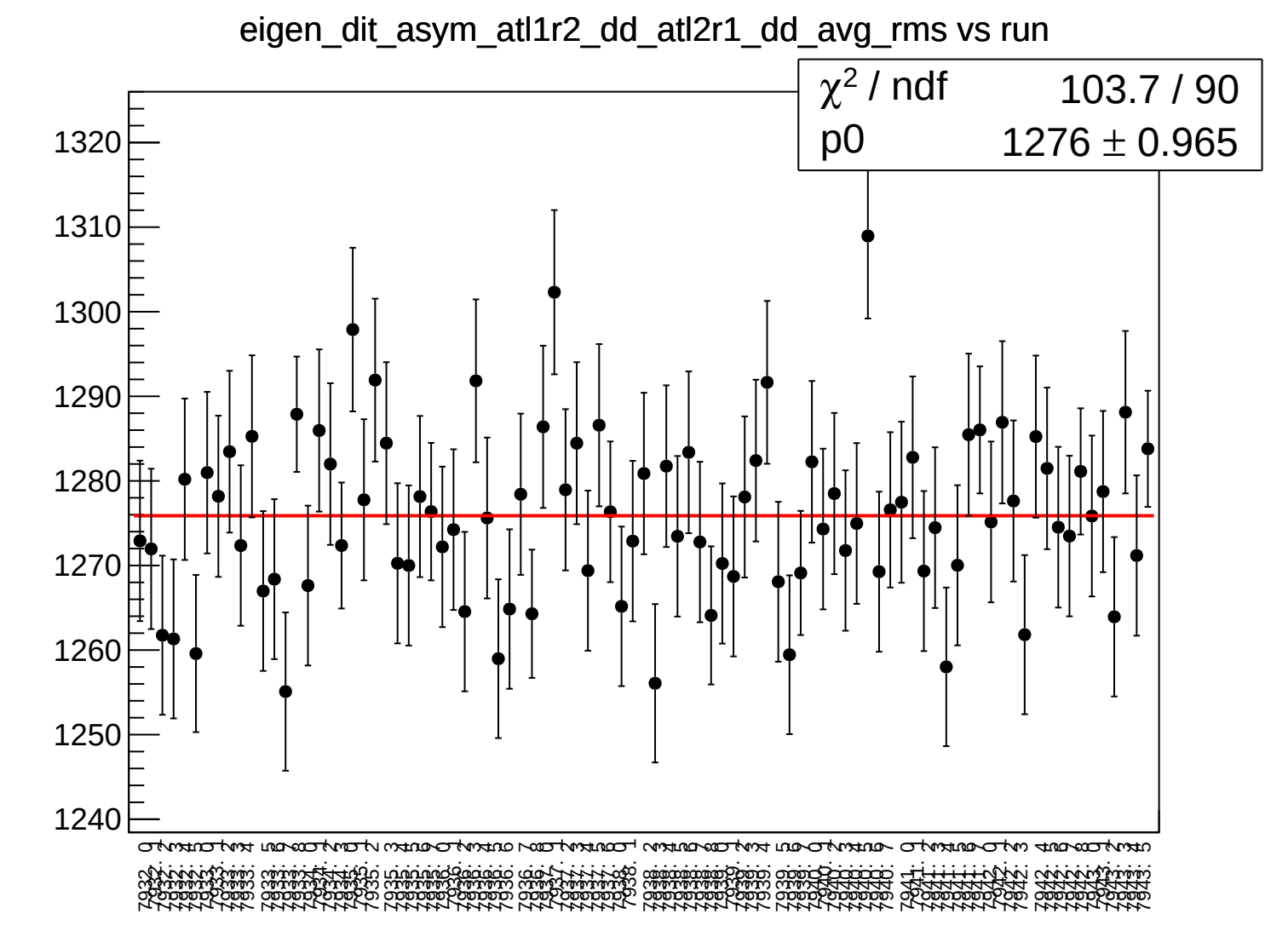

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 103.7 / 90
p0 1276 ± 0.965
1320
1310
1300
1290
1280
1270
1260
1250
1240

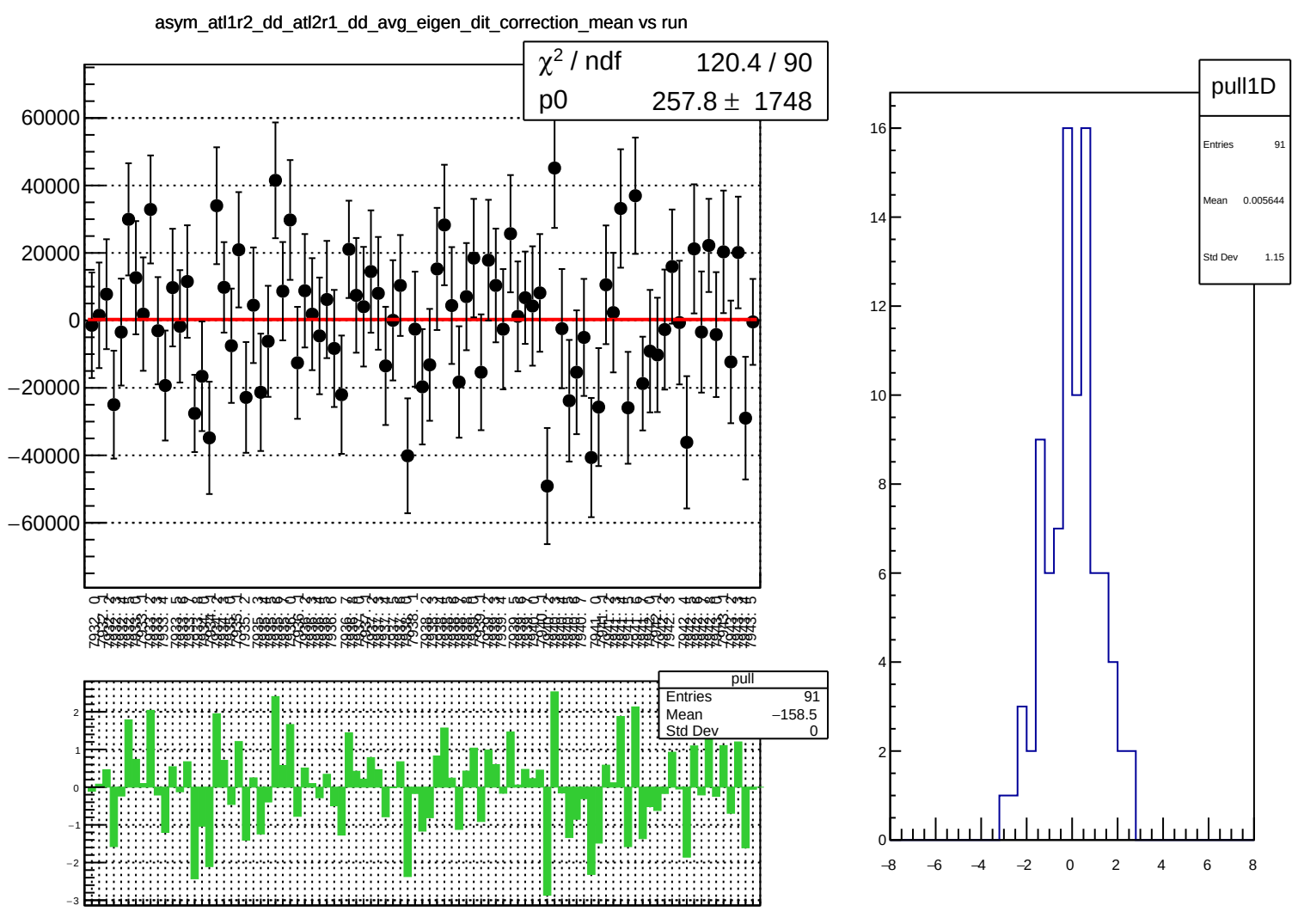

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 120.4 / 90
p0 257.8 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −158.5
Std Dev 0
2
1
0
−1
−2
−3

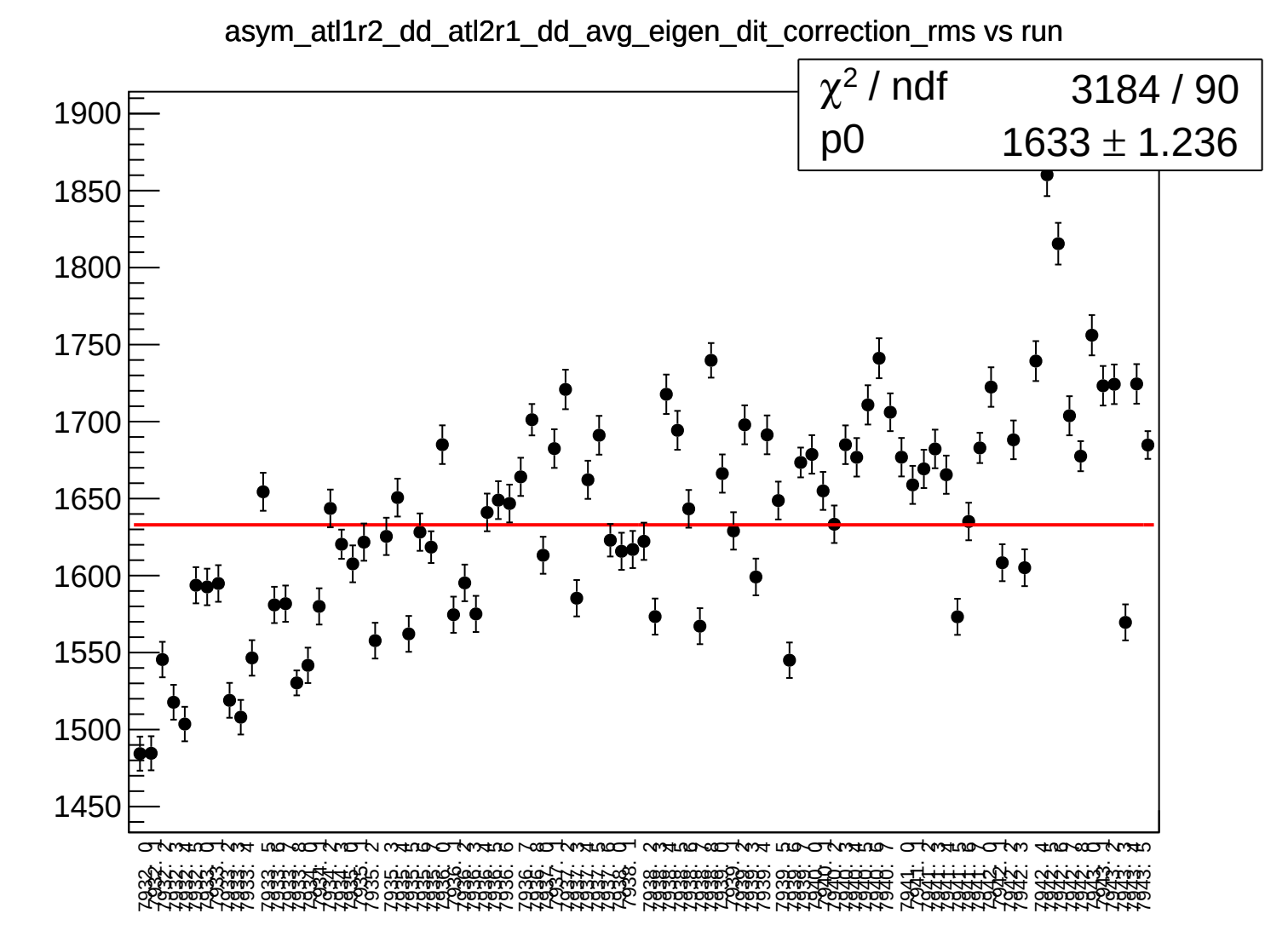

pull1D
Entries 91
Mean 0.005644
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

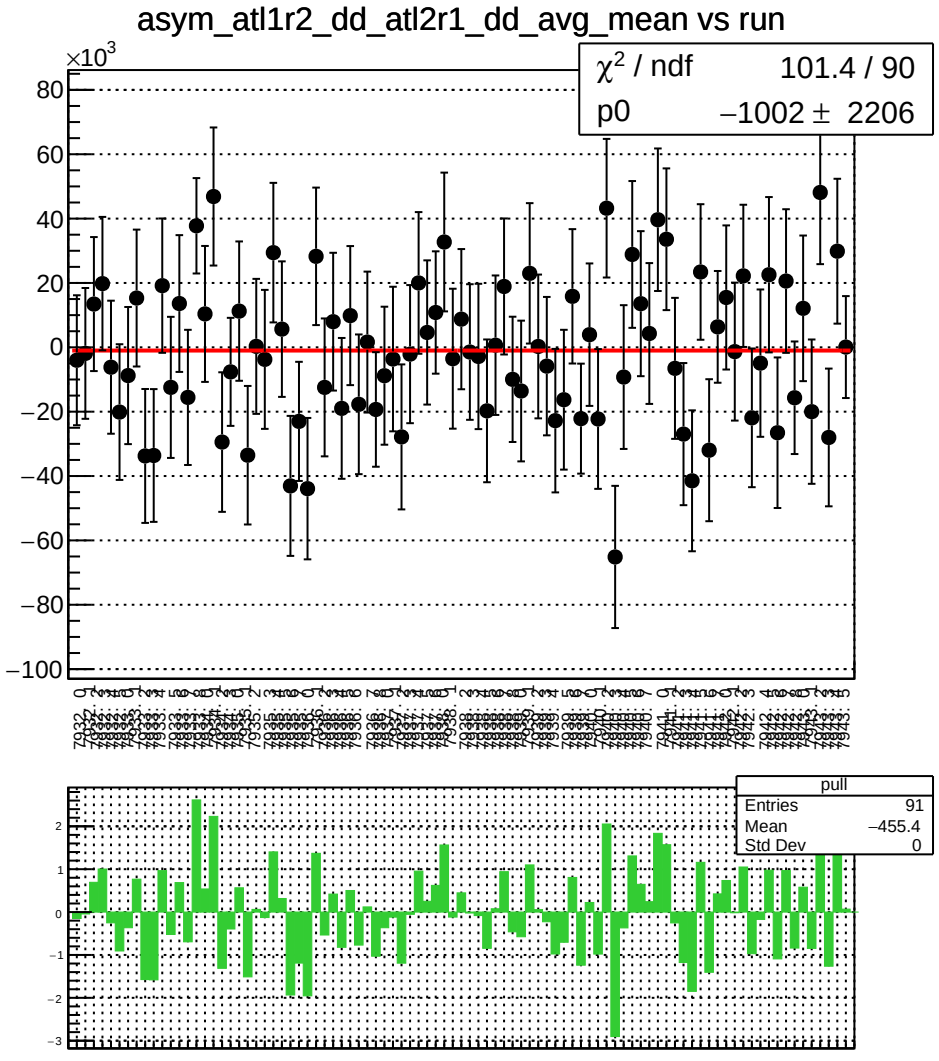

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3184 / 90
p0 1633 ± 1.236
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

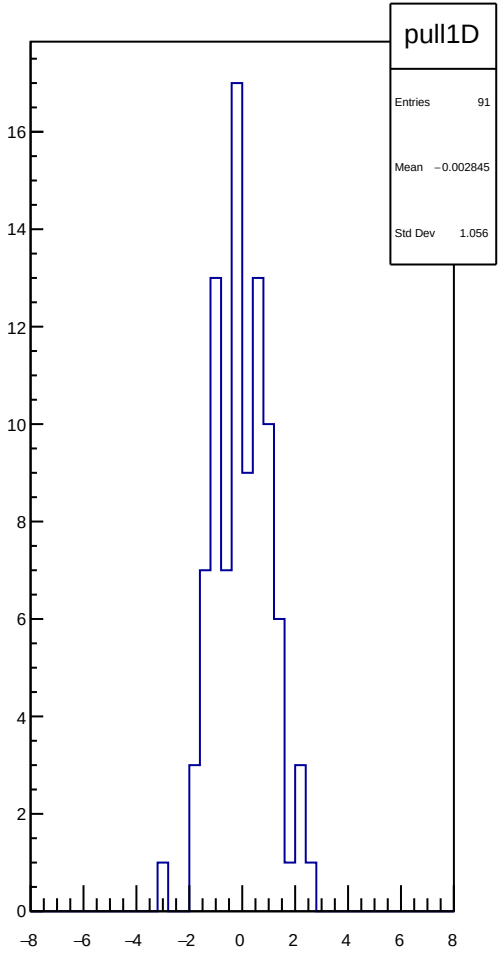

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.35 / 90
p0 −642.4 ± 1365
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −435.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001441
Std Dev 0.9338
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

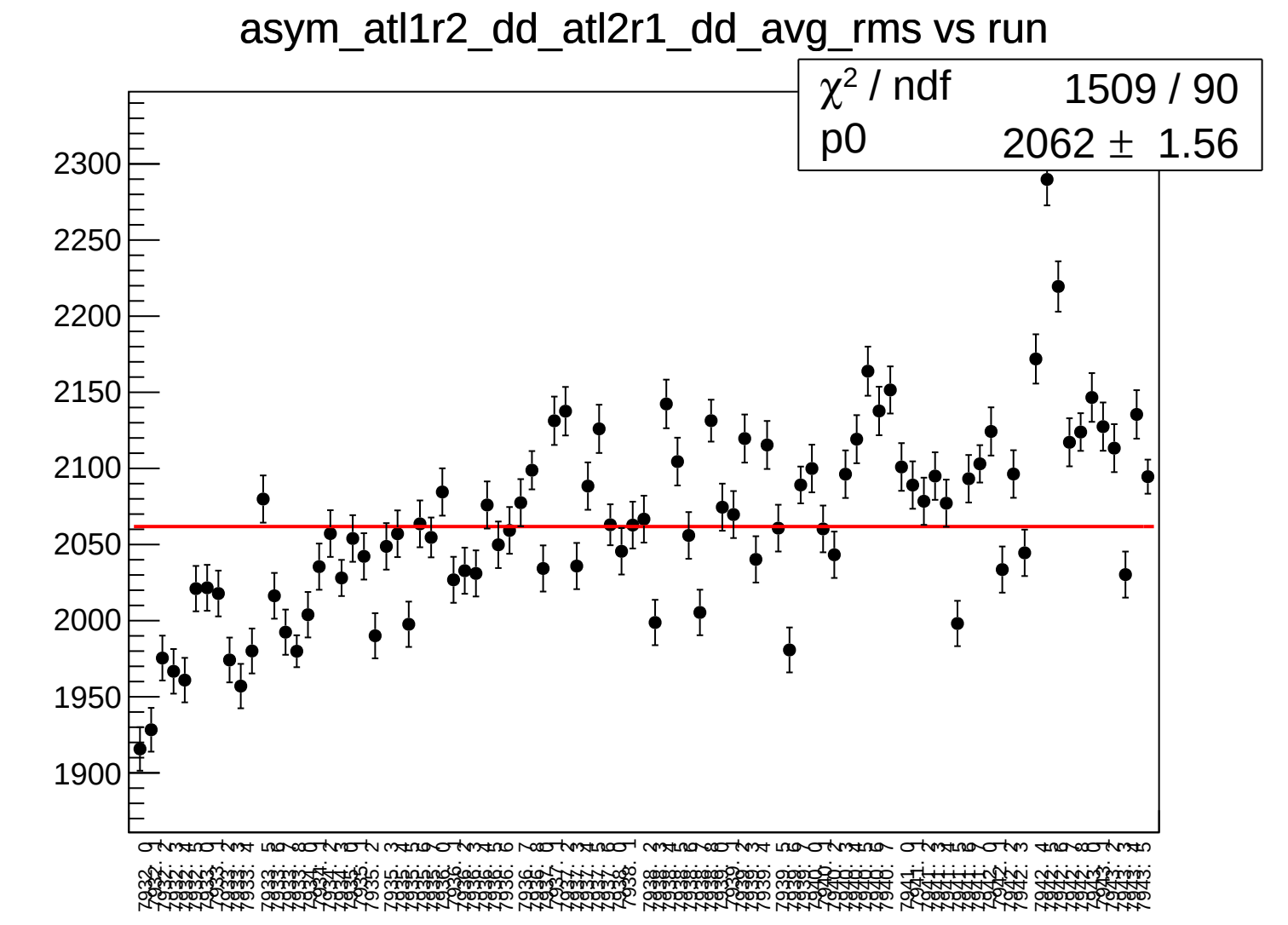

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 103.7 / 90
p0 1276 ± 0.965
1320
1310
1300
1290
1280
1270
1260
1250
1240

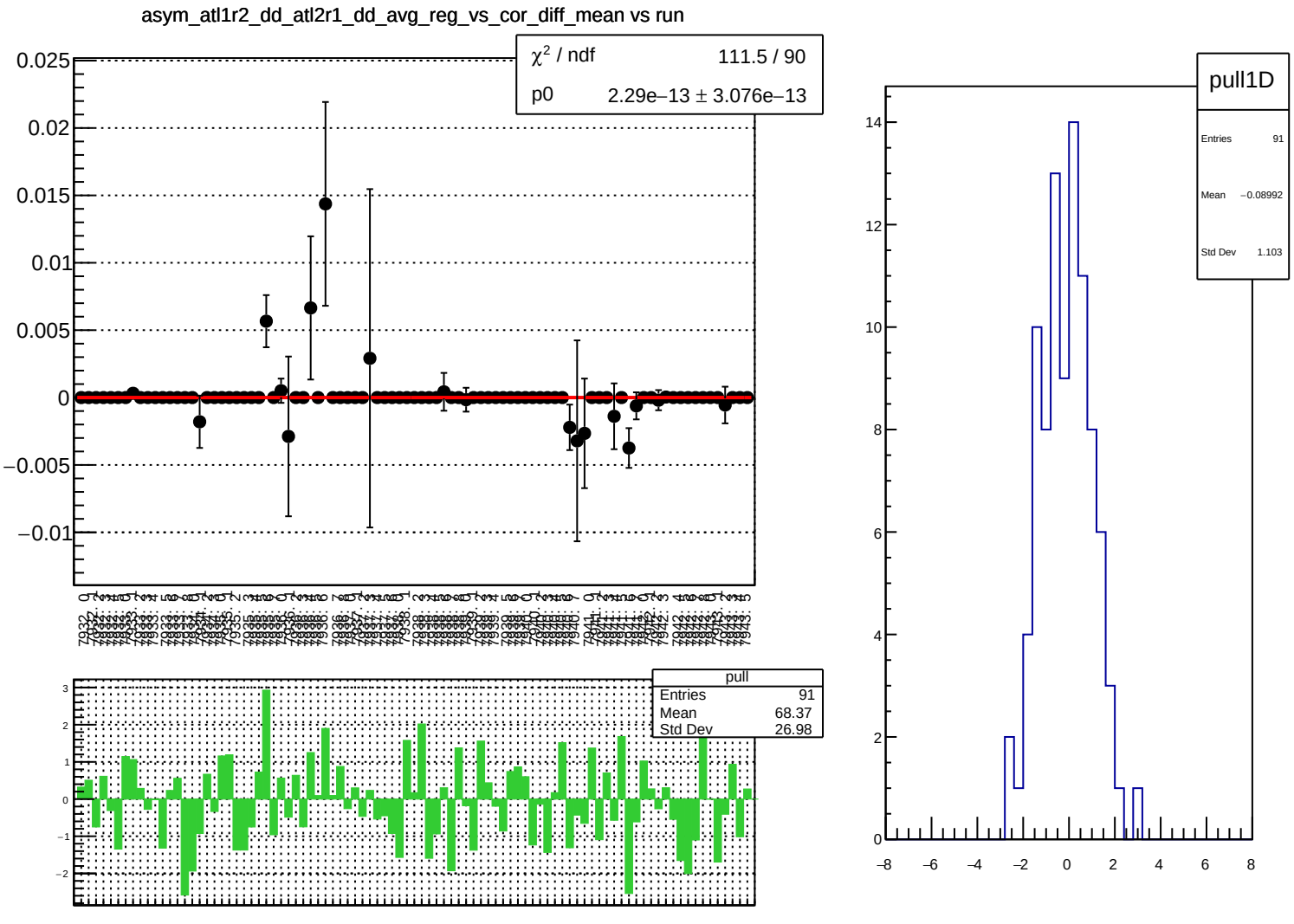

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 120.4 / 90
p0 257.8 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −158.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.005644
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

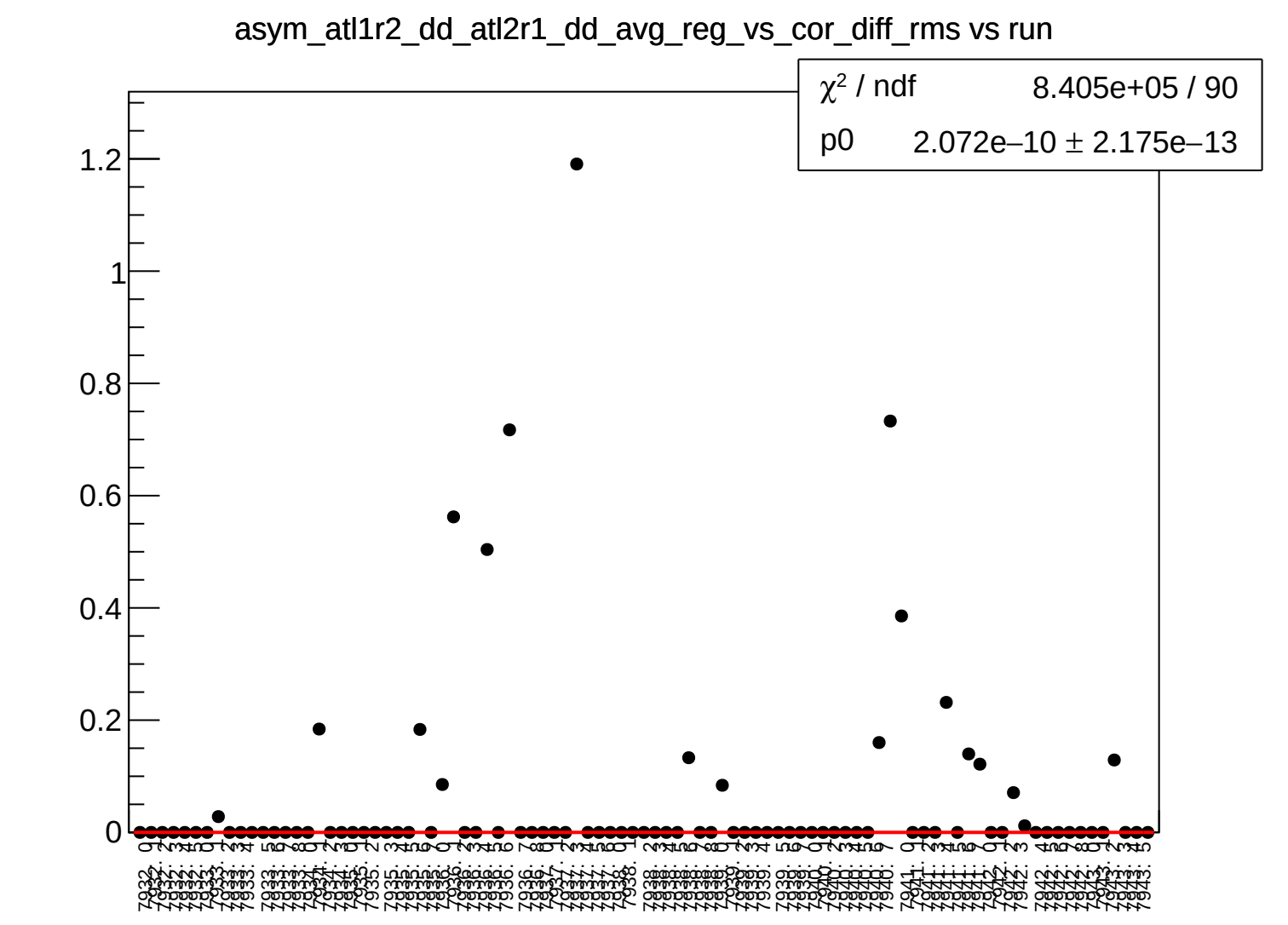

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3184 / 90
p0 1633 ± 1.236
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

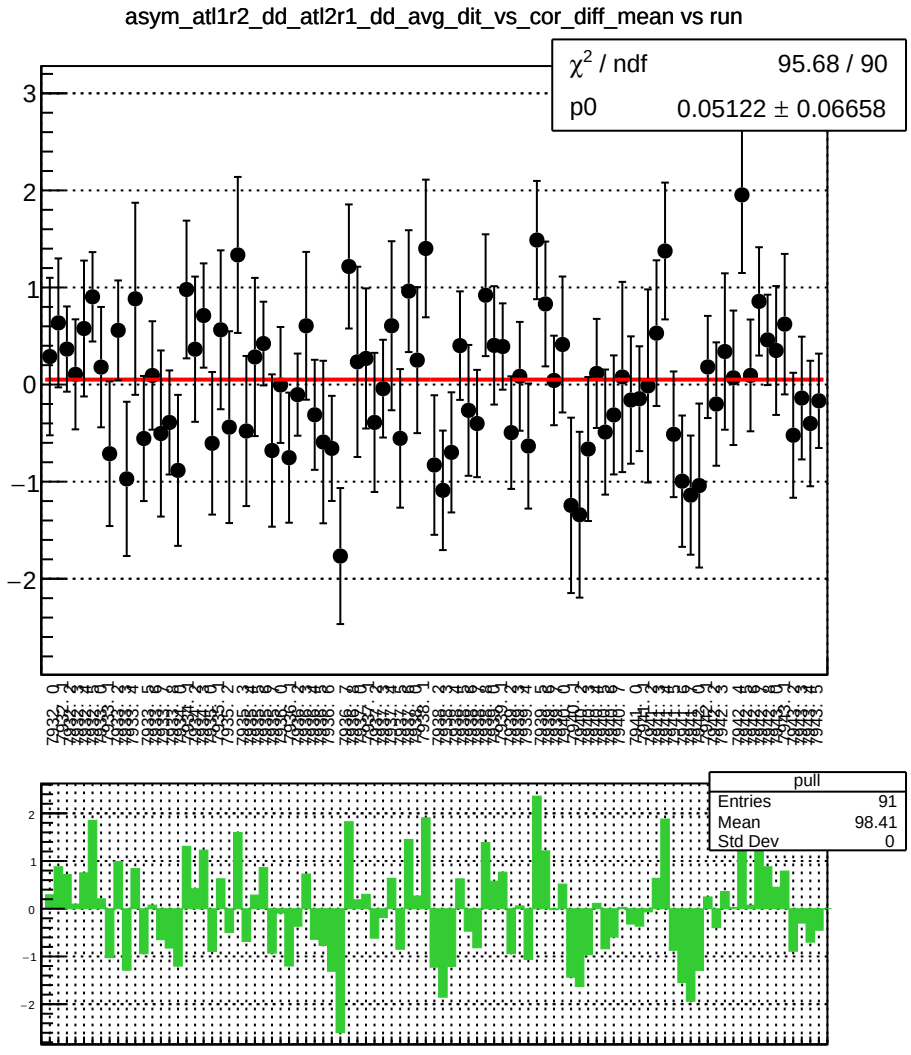

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 101.4 / 90
p0 −1002 ± 2206
pull
Entries 91
Mean −455.4
Std Dev 0

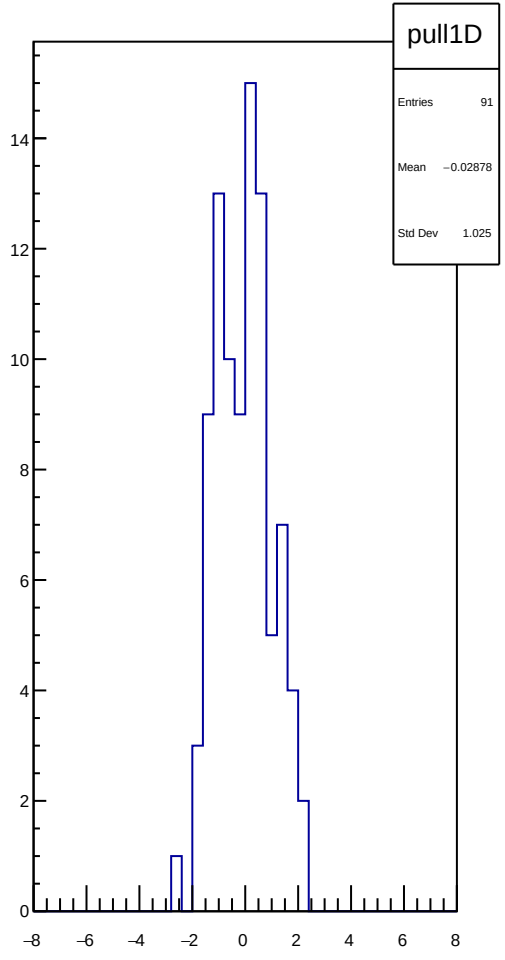

pull1D
Entries 91
Mean −0.002845
Std Dev 1.056

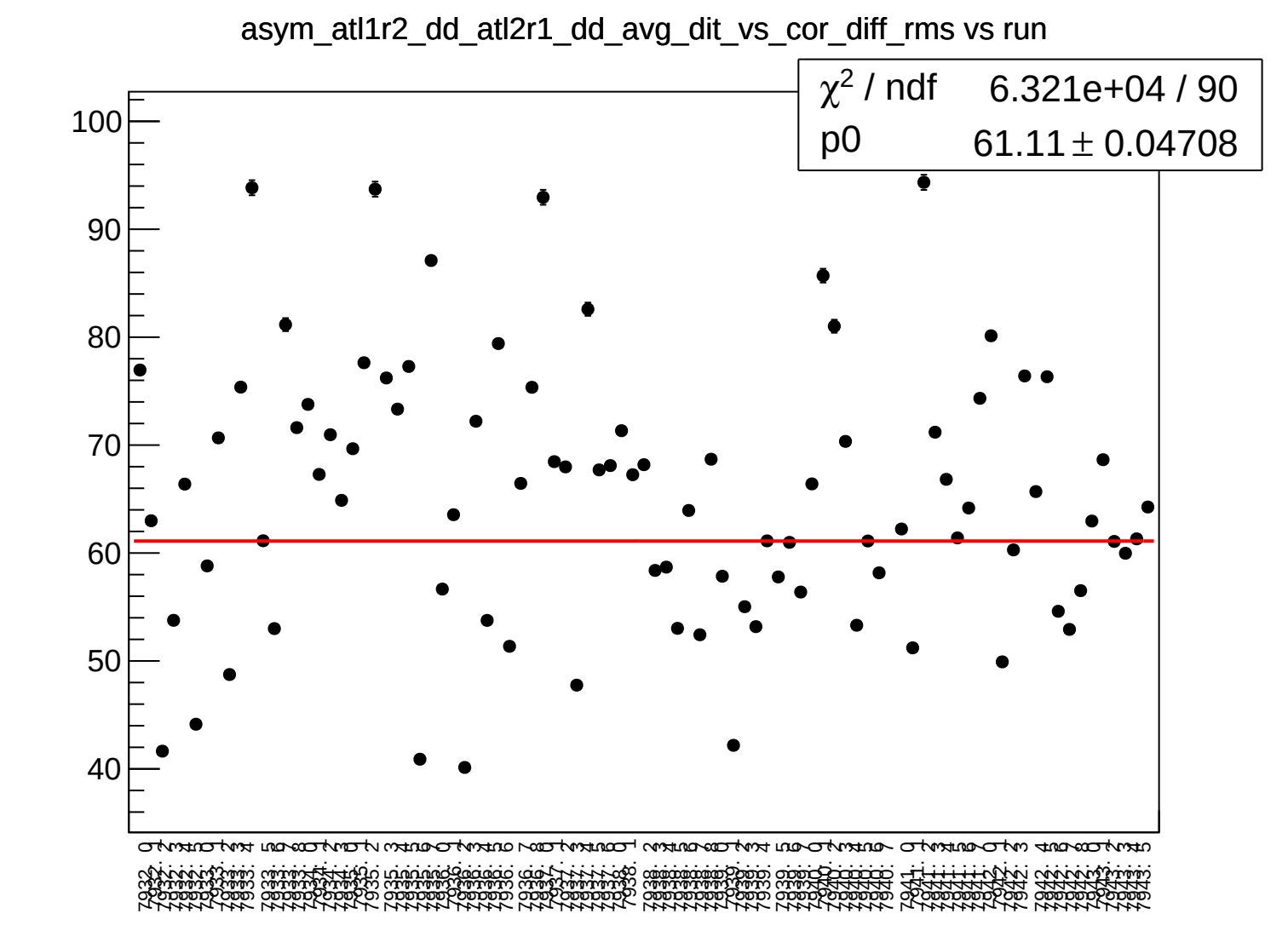

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1509 / 90
p0 2062 ± 1.56
2300
2250
2200
2150
2100
2050
2000
1950
1900

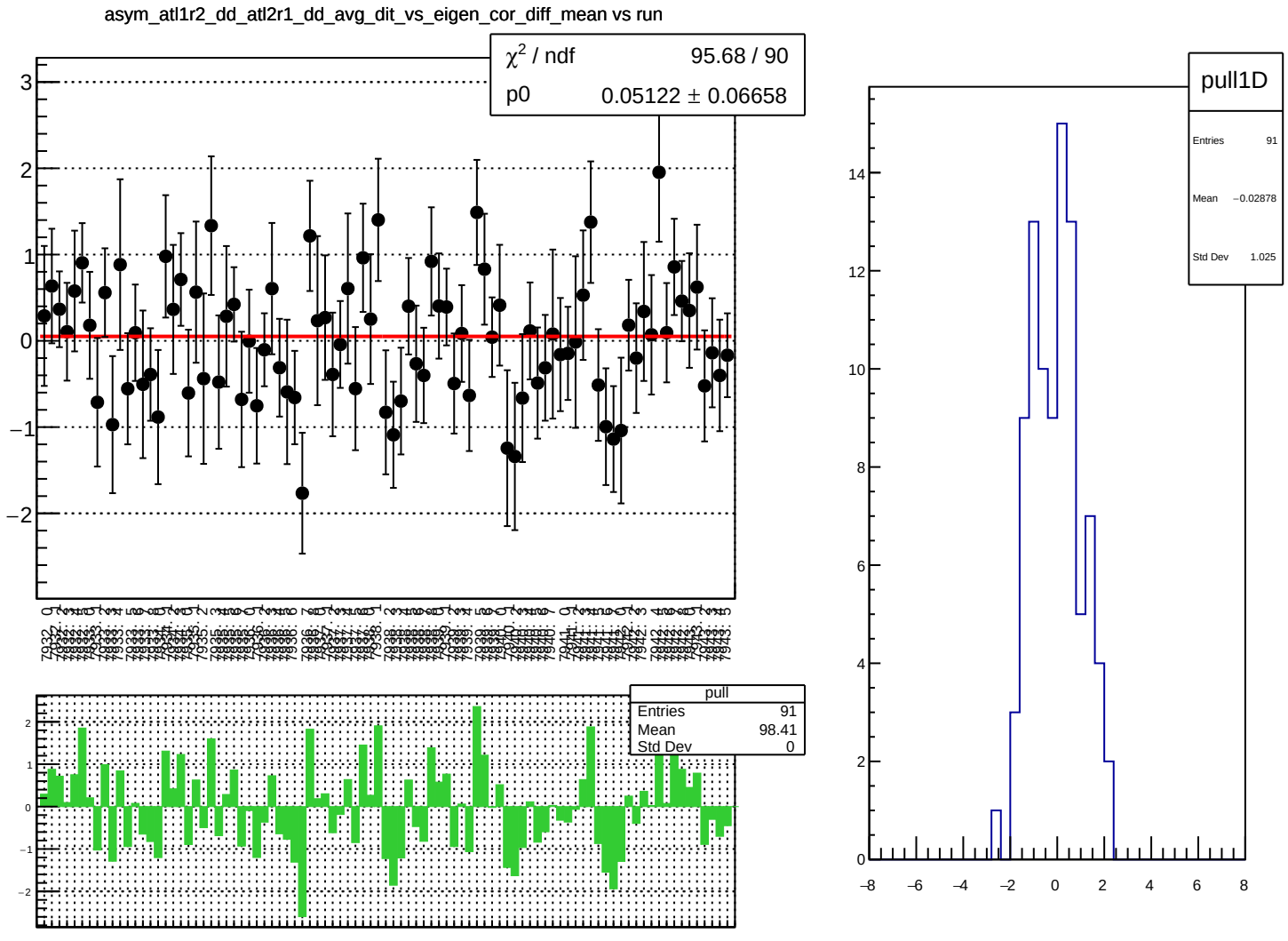

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.5 / 90
p0 2.29e−13 ± 3.076e−13
pull
Entries 91
Mean 68.37
Std Dev 26.98
pull1D
Entries 91
Mean −0.08992
Std Dev 1.103

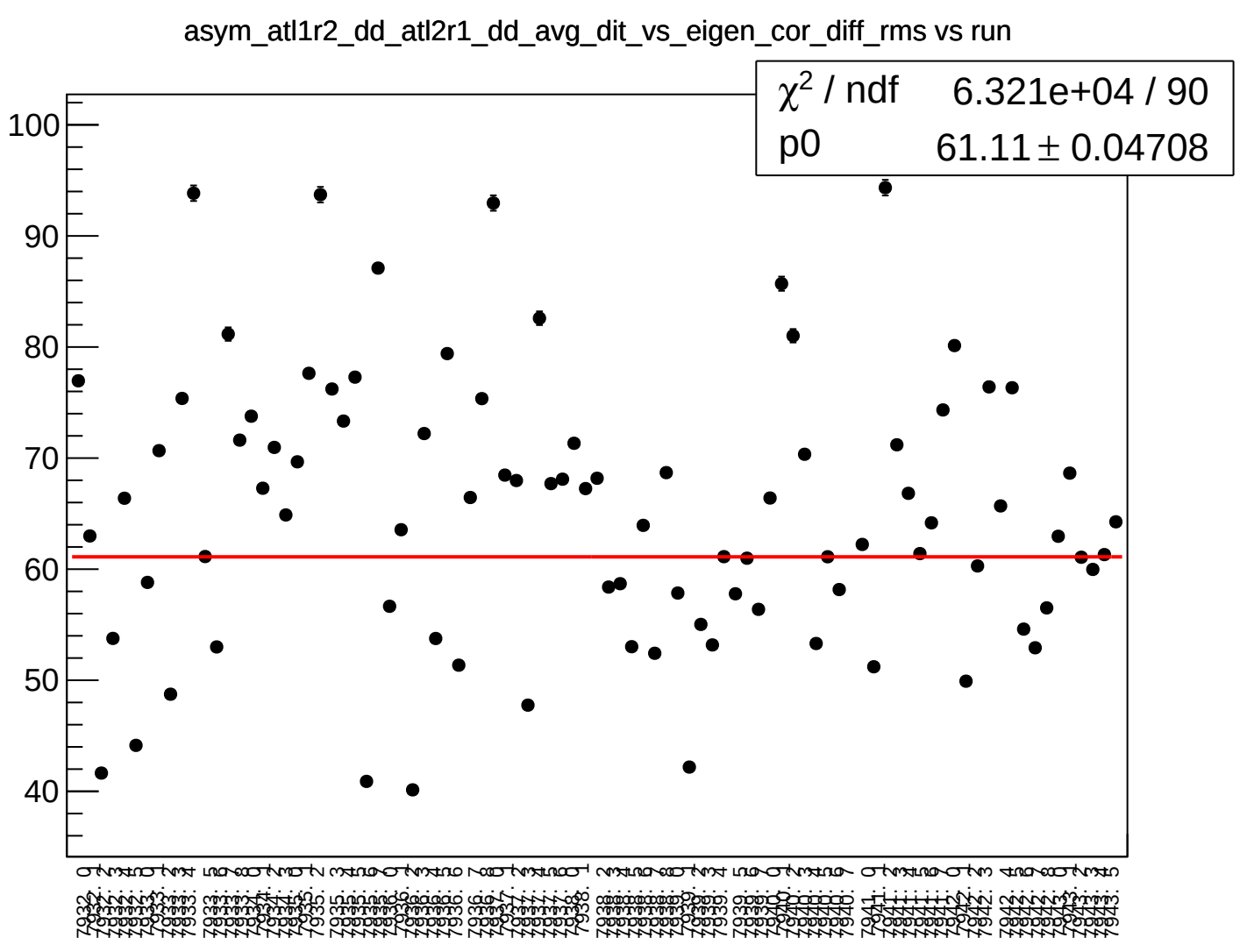

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.405e+05 / 90
p0 2.072e−10 ± 2.175e−13
1.2
1
0.8
0.6
0.4
0.2
0

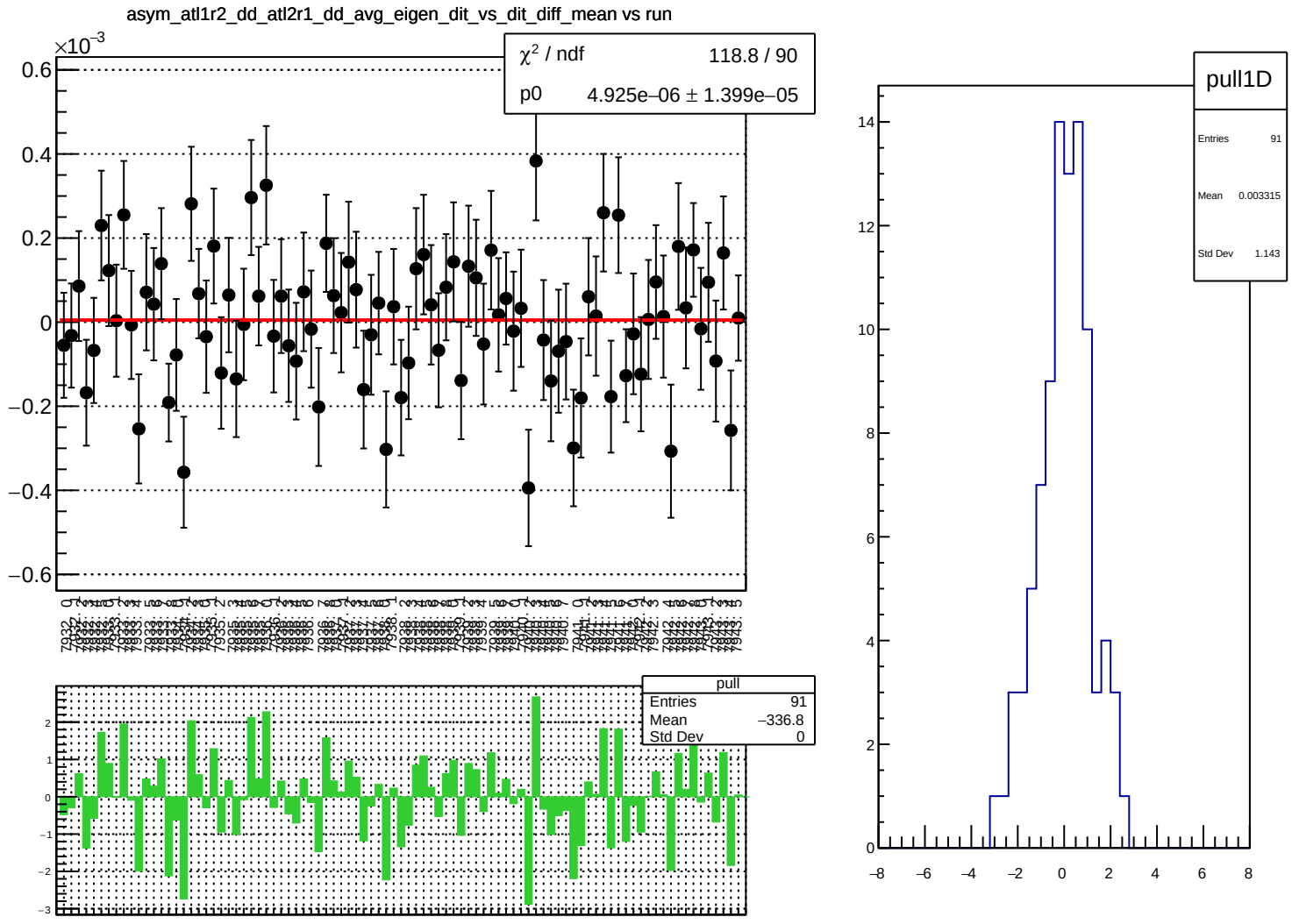

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05122 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0

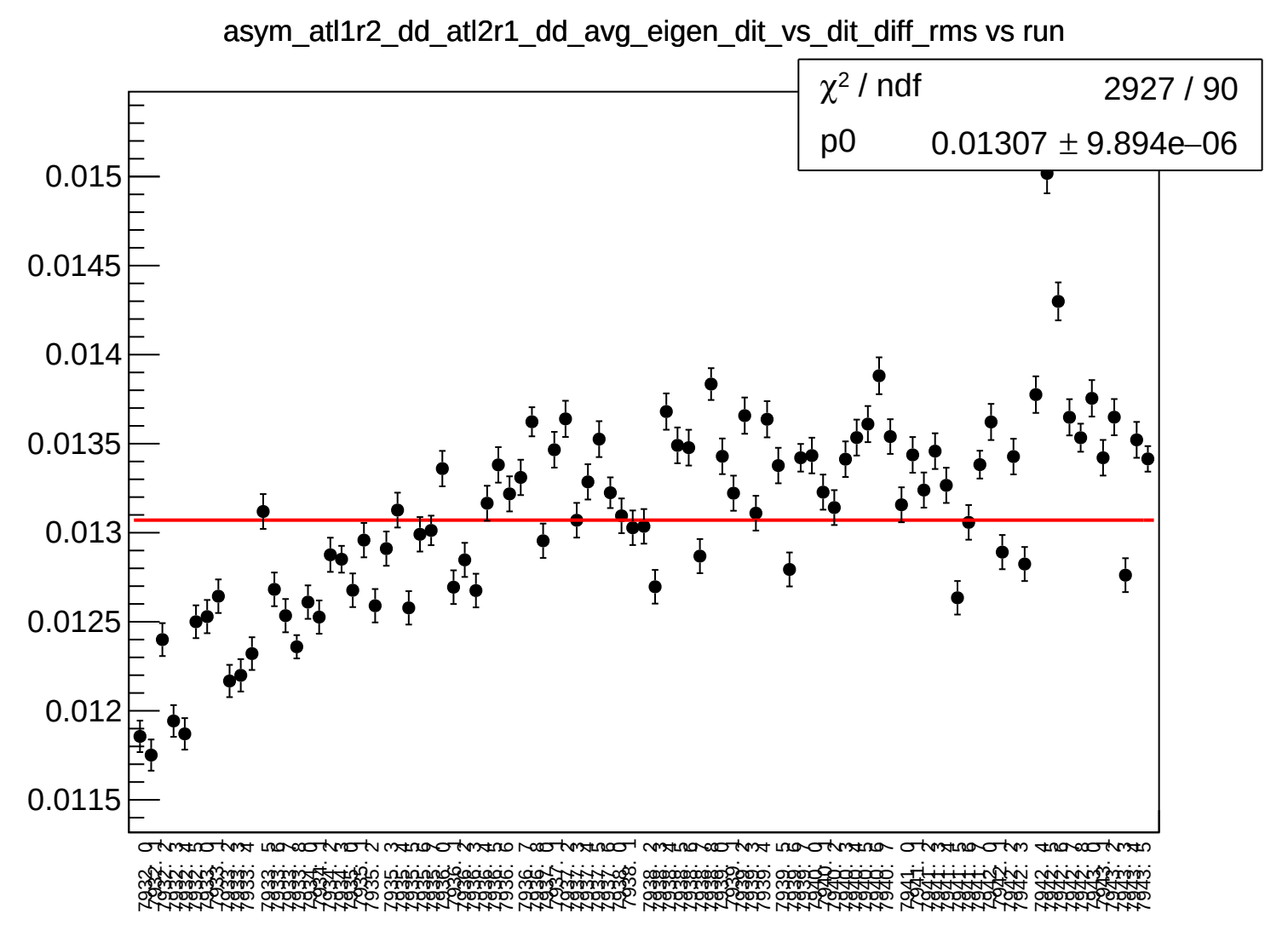

pull1D
Entries 91
Mean −0.02878
Std Dev 1.025

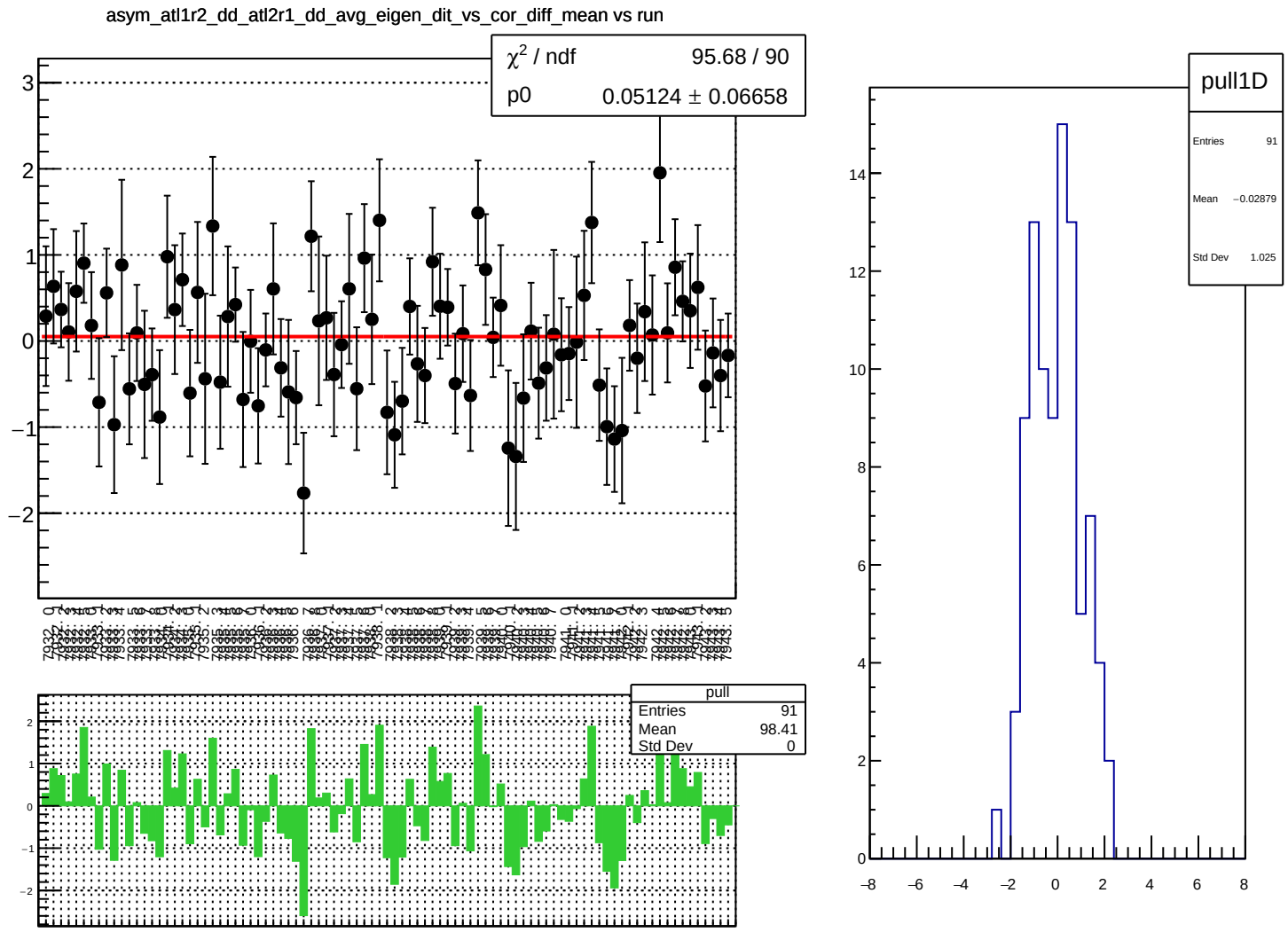

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

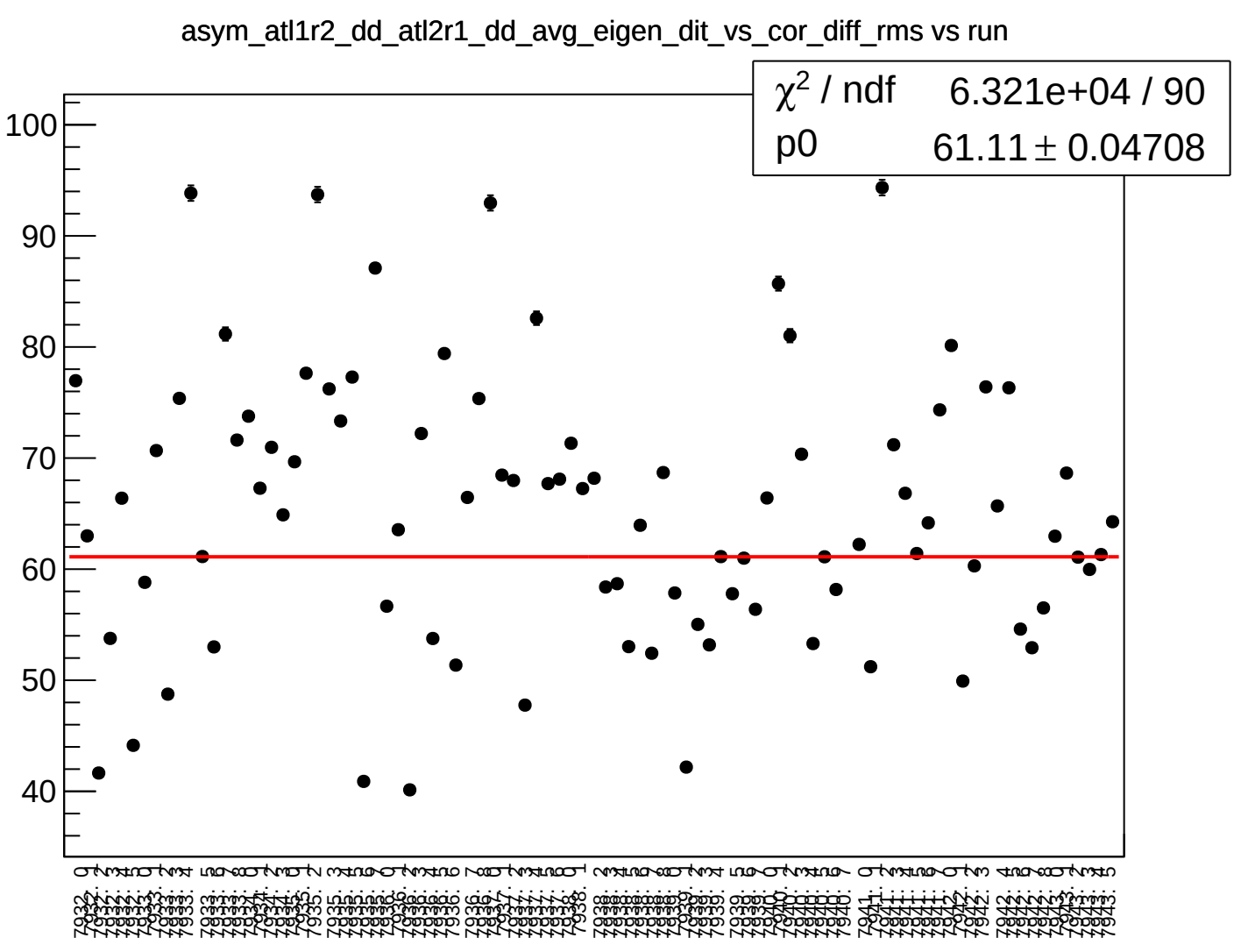

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05122 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0
pull1D
Entries 91
Mean −0.02878
Std Dev 1.025

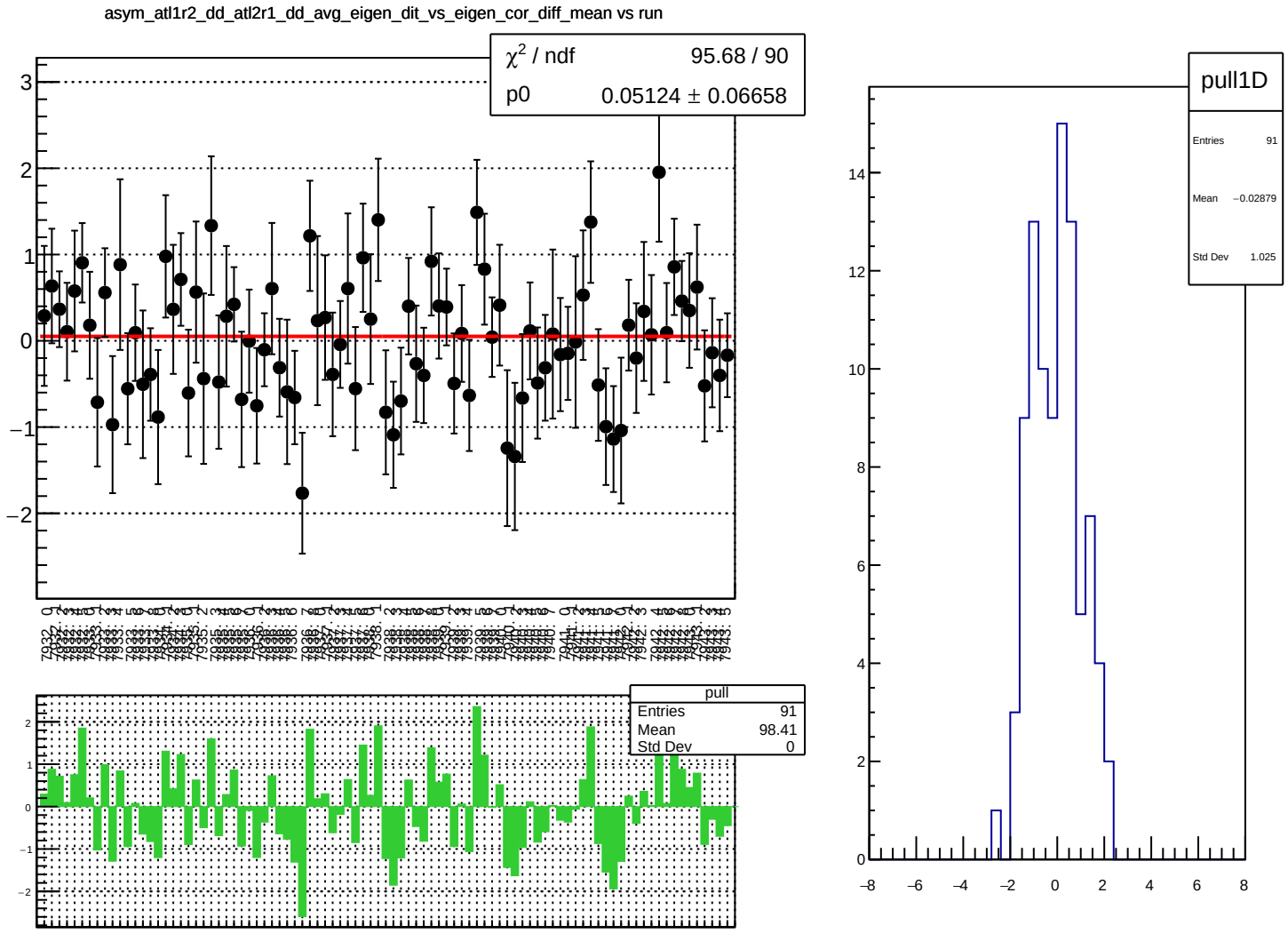

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

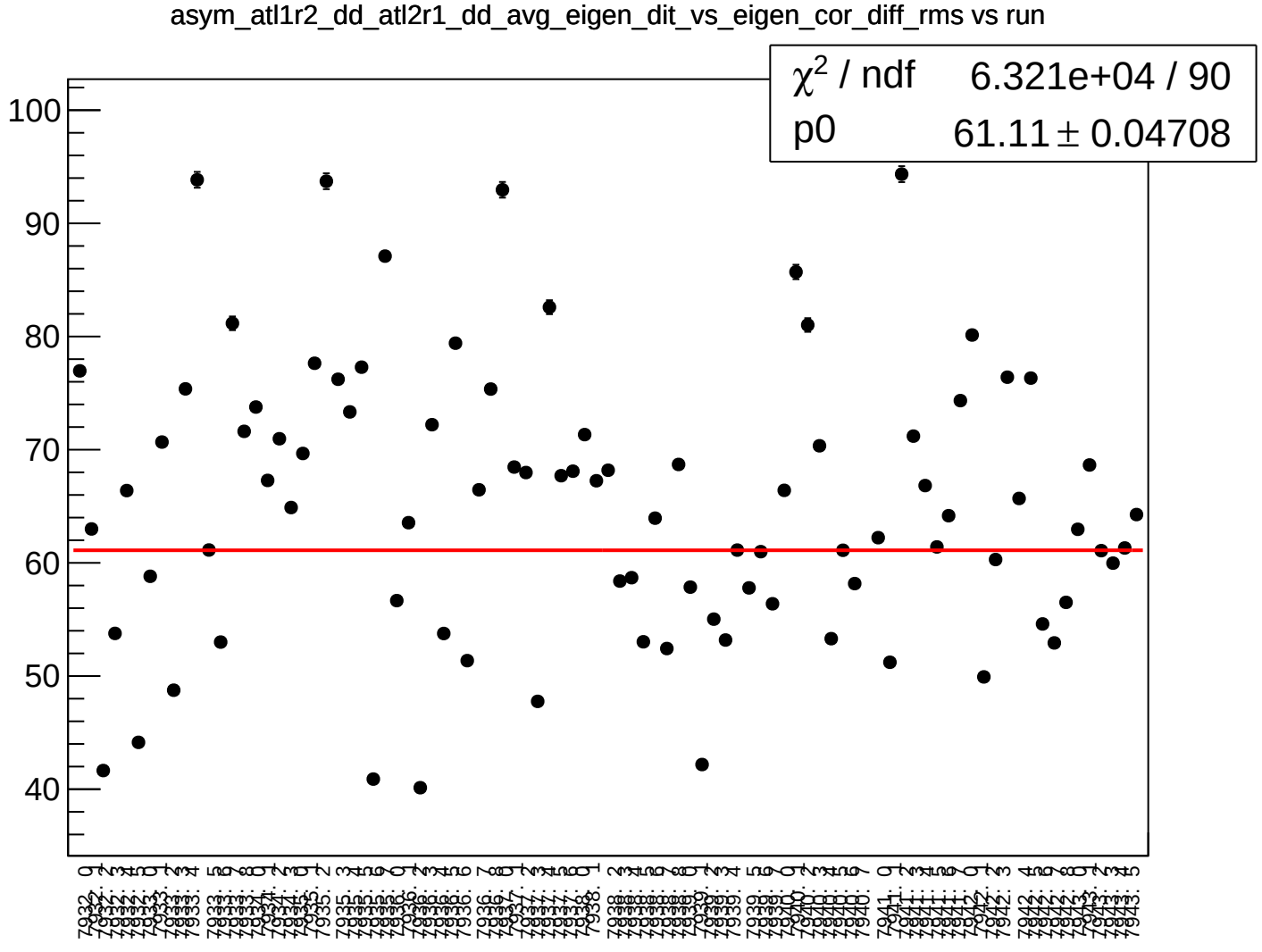

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.8 / 90
p0 4.925e−06 ± 1.399e−05
pull
Entries 91
Mean −336.8
Std Dev 0
pull1D
Entries 91
Mean 0.003315
Std Dev 1.143

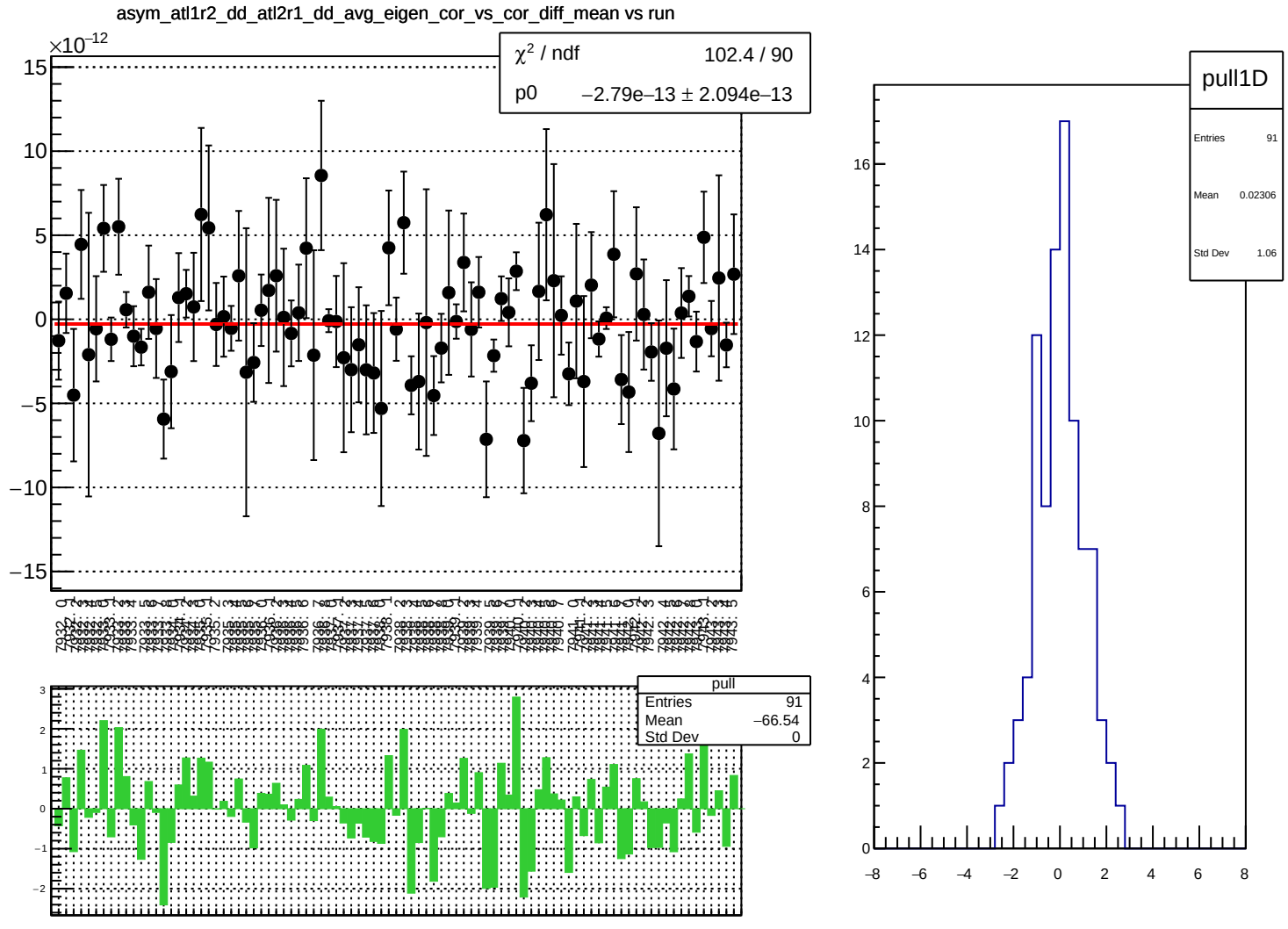

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2927 / 90
p0 0.01307 ± 9.894e−06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

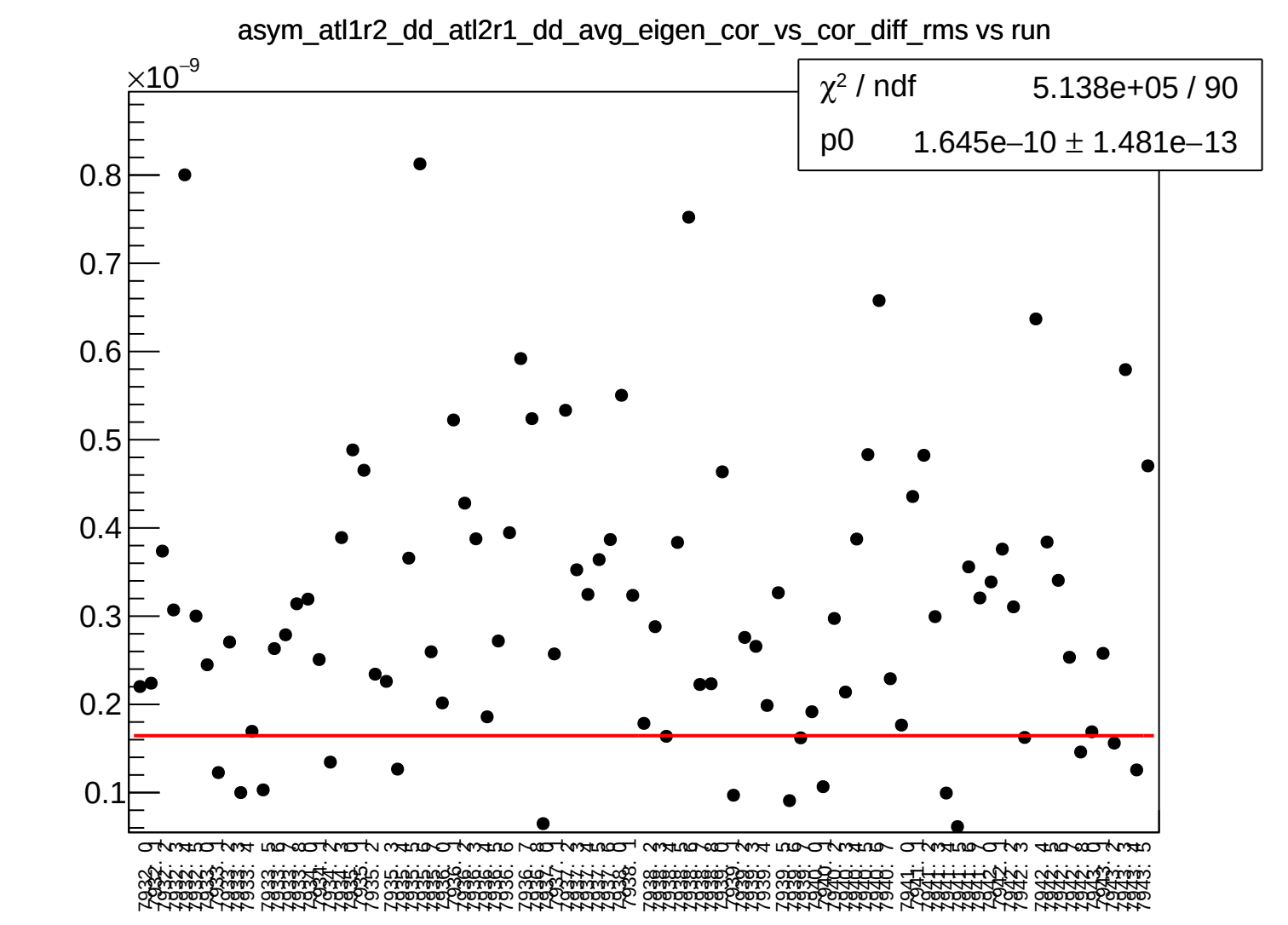

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05124 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0
pull1D
Entries 91
Mean −0.02879
Std Dev 1.025

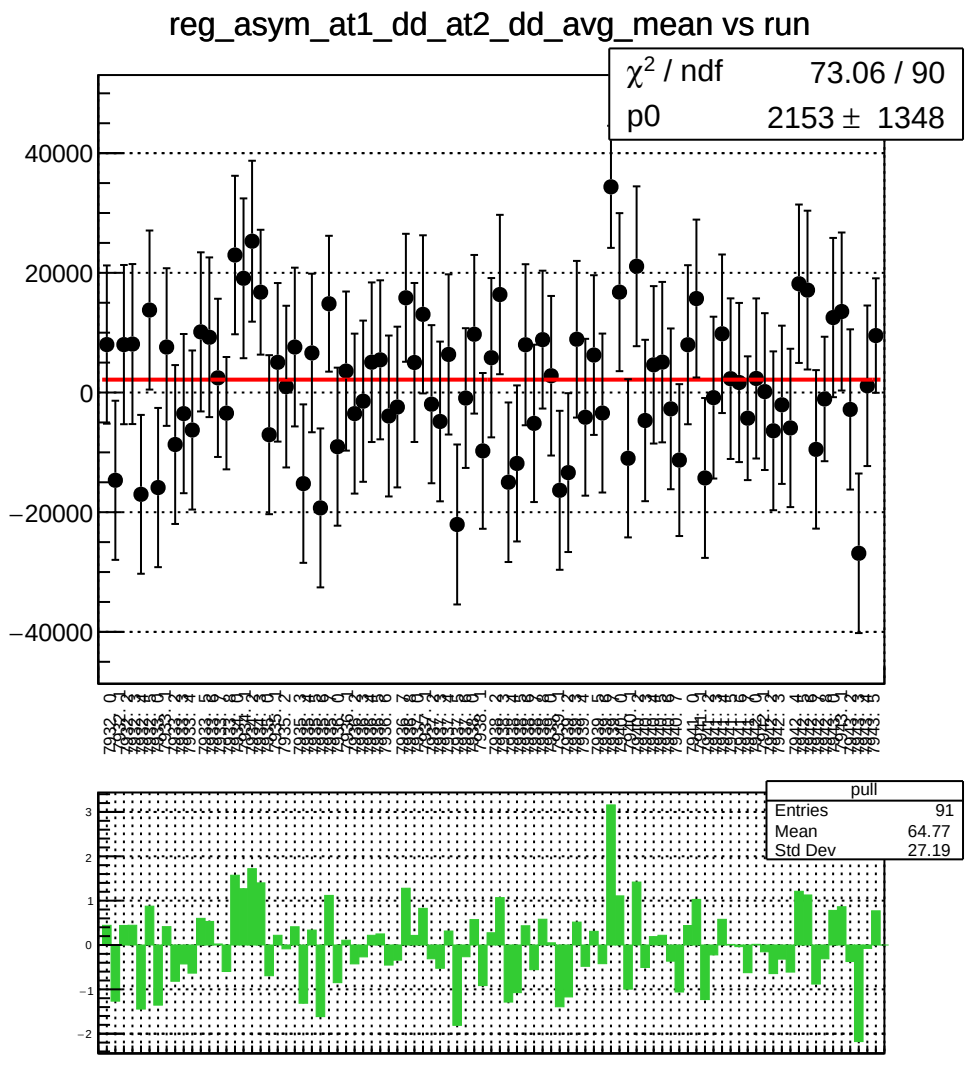

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

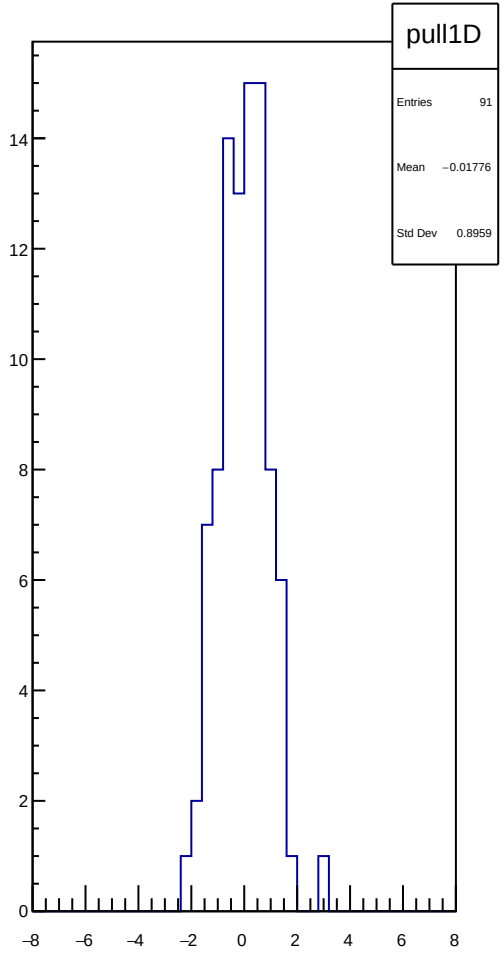

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.68 / 90
p0 0.05124 ± 0.06658
pull
Entries 91
Mean 98.41
Std Dev 0
pull1D
Entries 91
Mean −0.02879
Std Dev 1.025

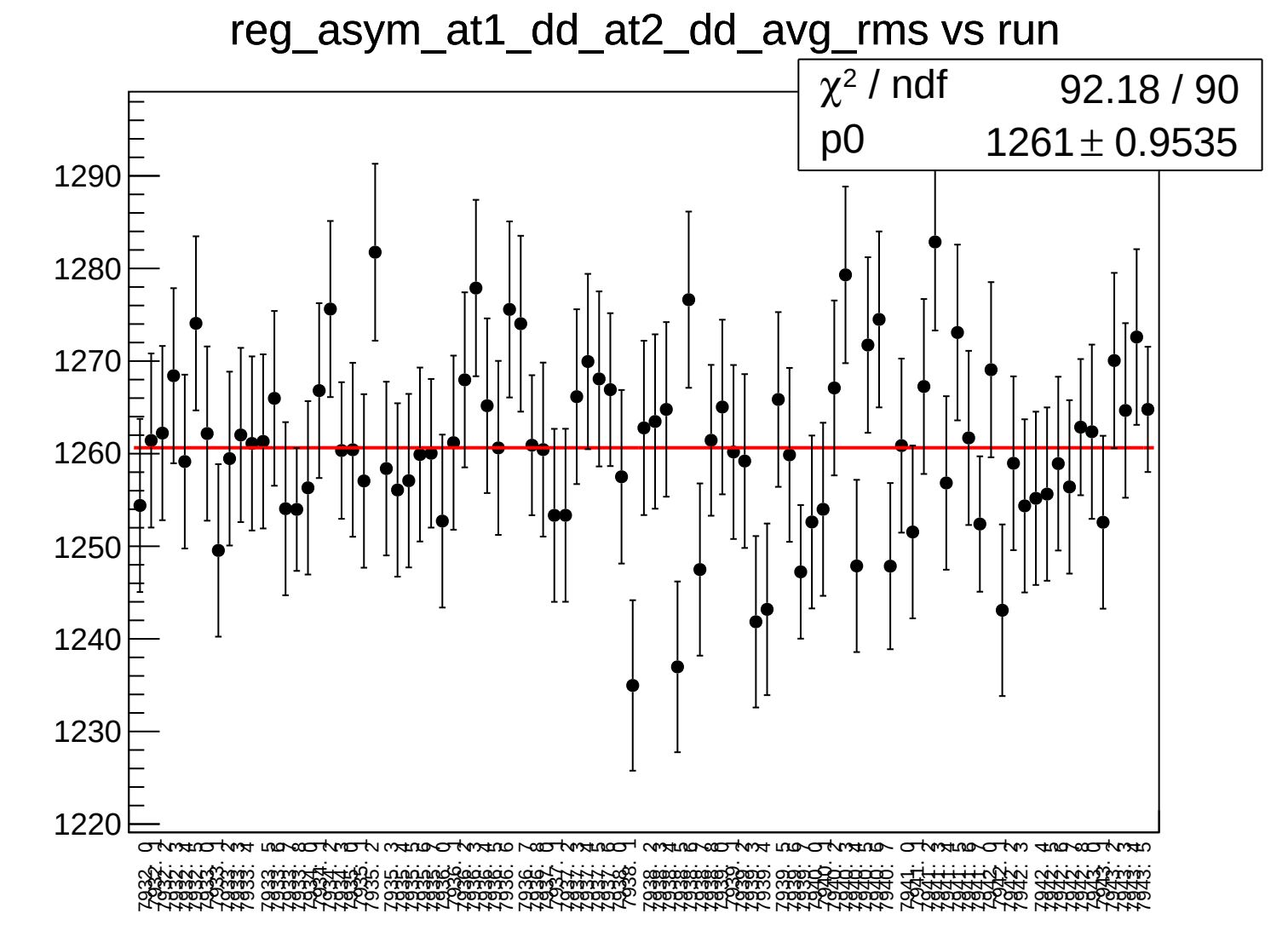

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.321e+04 / 90
p0 61.11 ± 0.04708
100
90
80
70
60
50
40

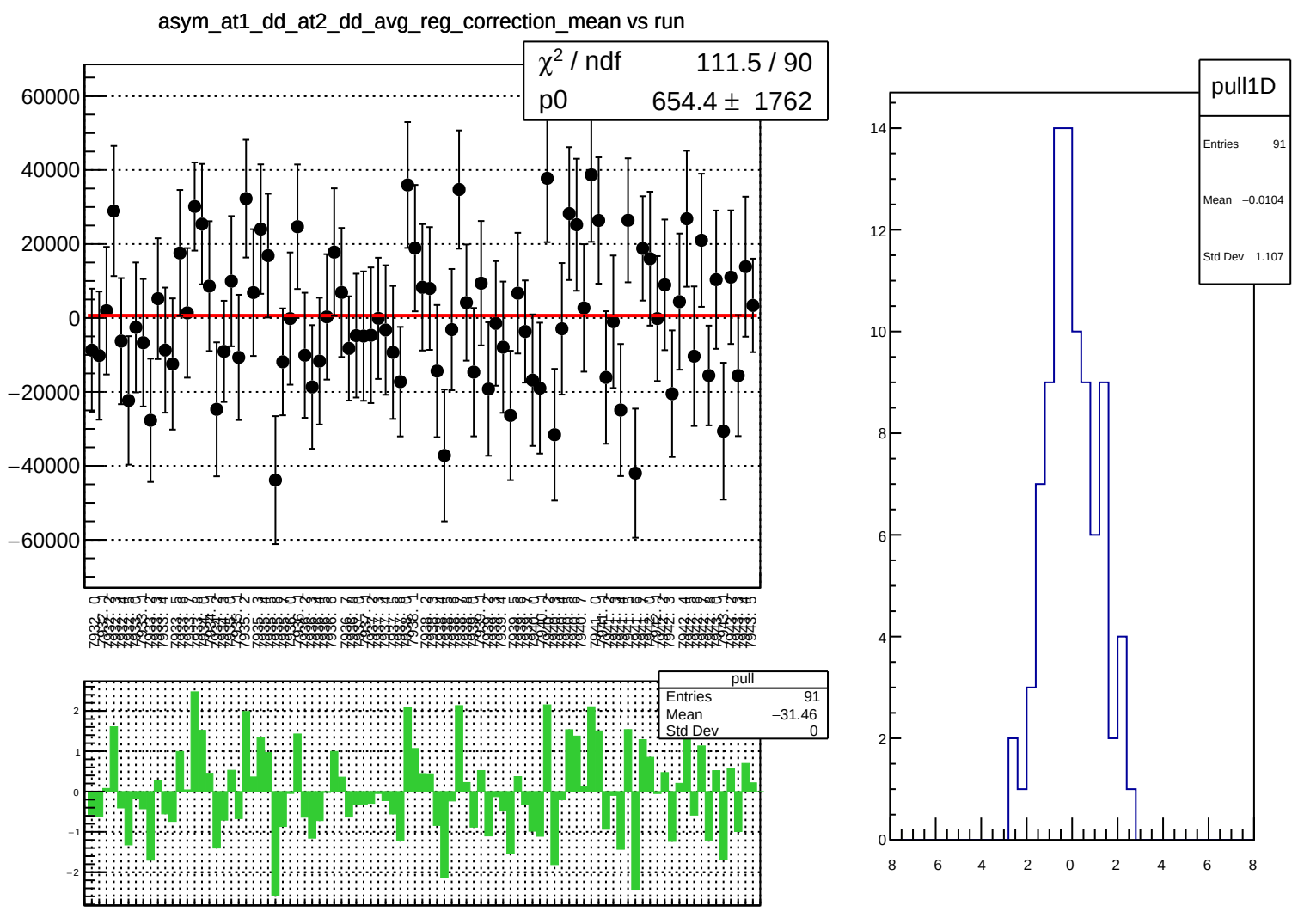

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.4 / 90
p0 −2.79e−13 ± 2.094e−13
pull
Entries 91
Mean −66.54
Std Dev 0
pull1D
Entries 91
Mean 0.02306
Std Dev 1.06

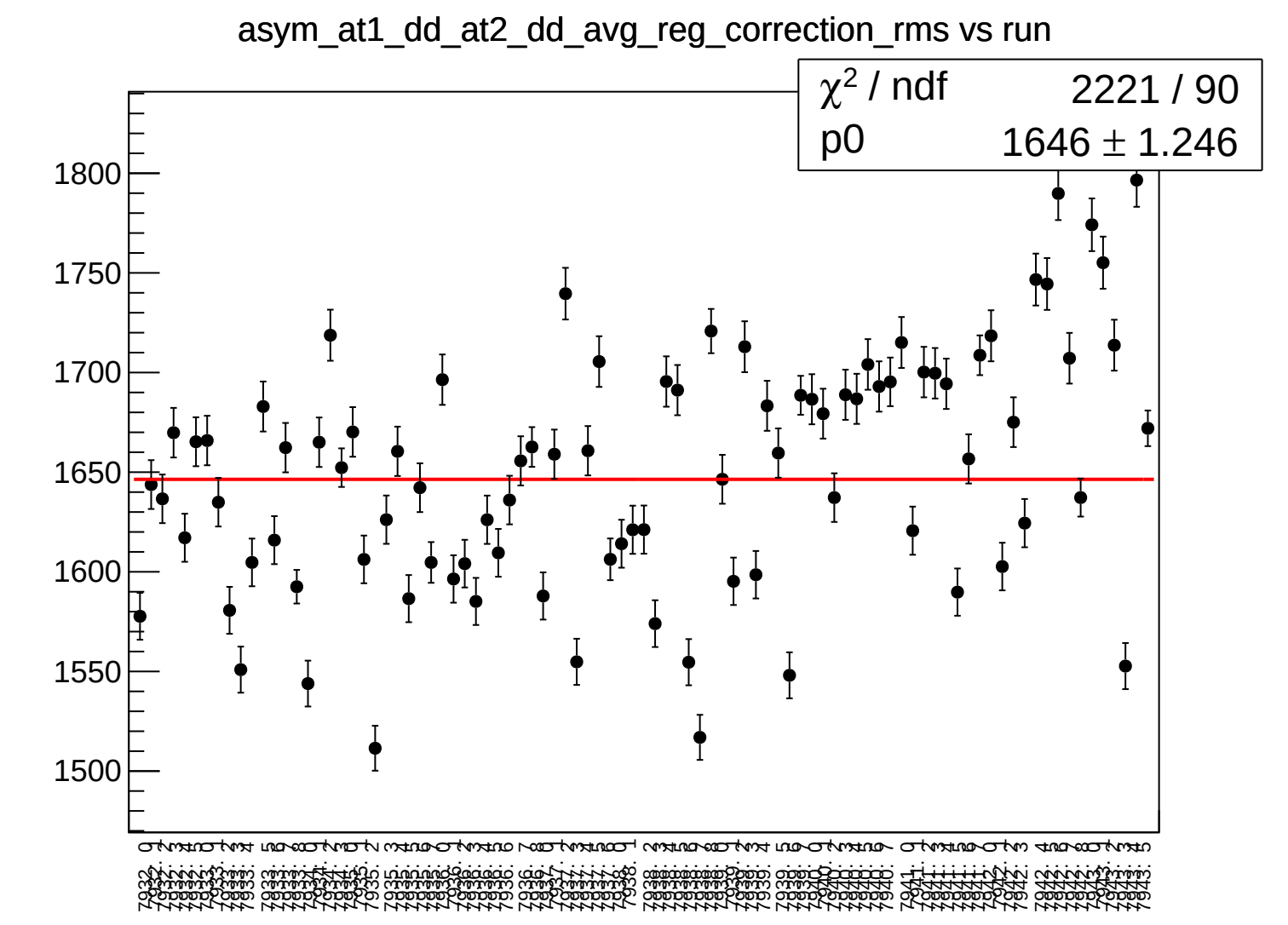

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.138e+05 / 90
p0 1.645e−10 ± 1.481e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

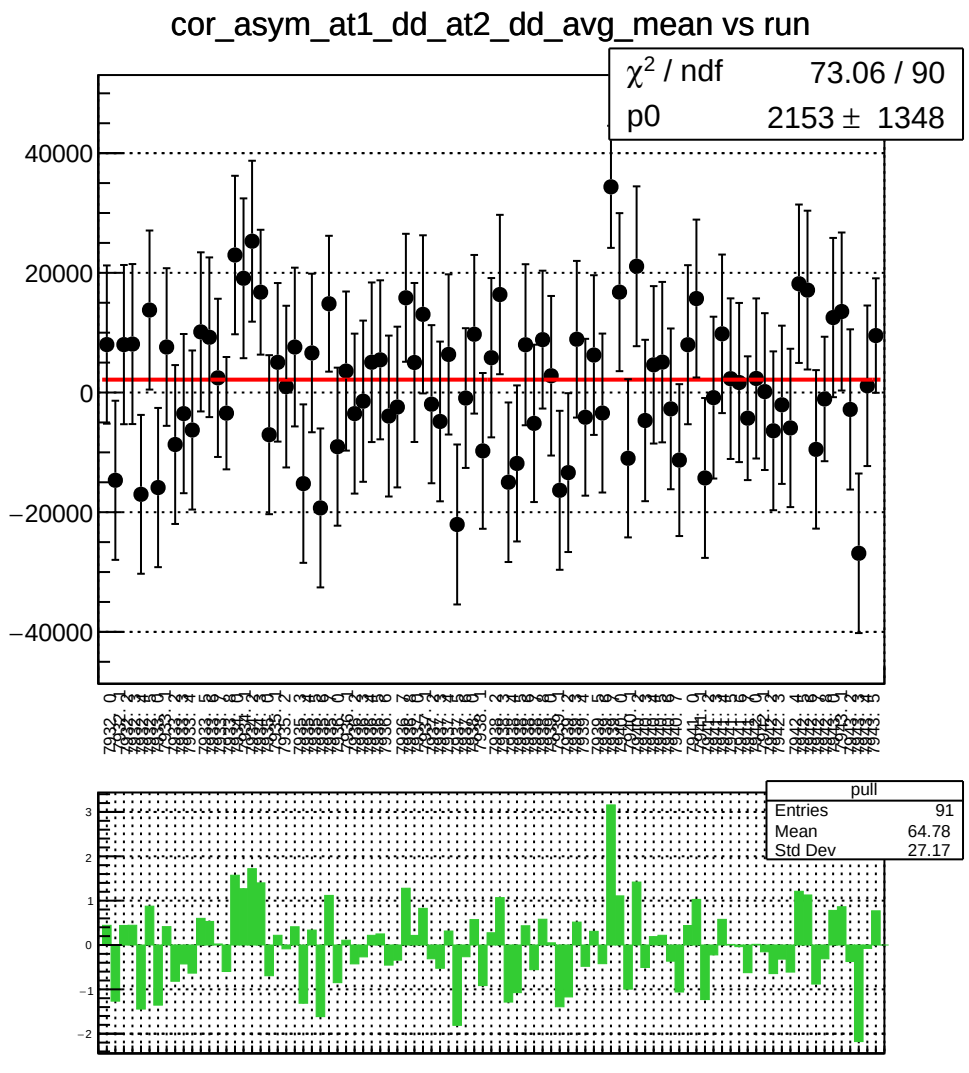

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 73.06 / 90
p0 2153 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 64.77
Std Dev 27.19
3
2
1
0
−1
−2

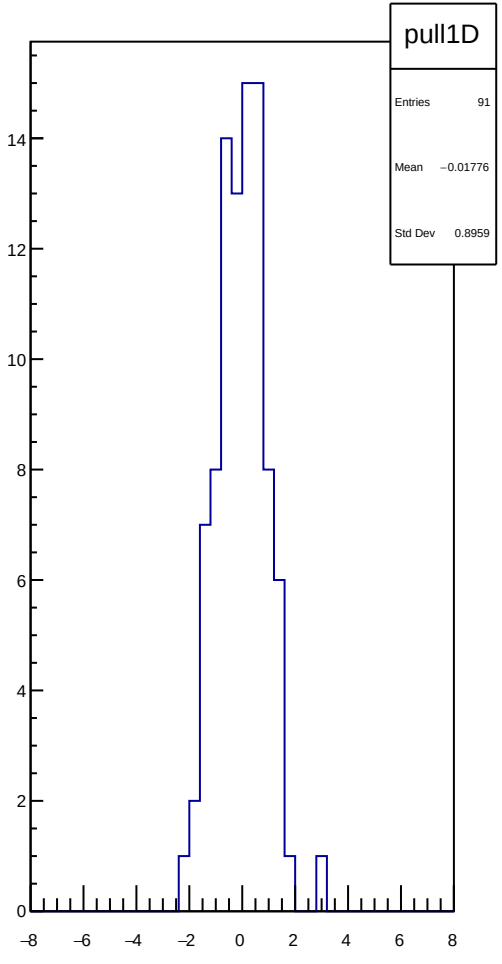

pull1D
Entries 91
Mean −0.01776
Std Dev 0.8959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.18 / 90
p0 1261 ± 0.9535
1290
1280
1270
1260
1250
1240
1230
1220


asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 111.5 / 90
p0 654.4 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −31.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0104
Std Dev 1.107
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 2221 / 90
p0 1646 ± 1.246
1800
1750
1700
1650
1600
1550
1500


cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 73.06 / 90
p0 2153 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 64.78
Std Dev 27.17
3
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01776
Std Dev 0.8959
14
12
10
8
6
4
2
0
−8
−6
−4
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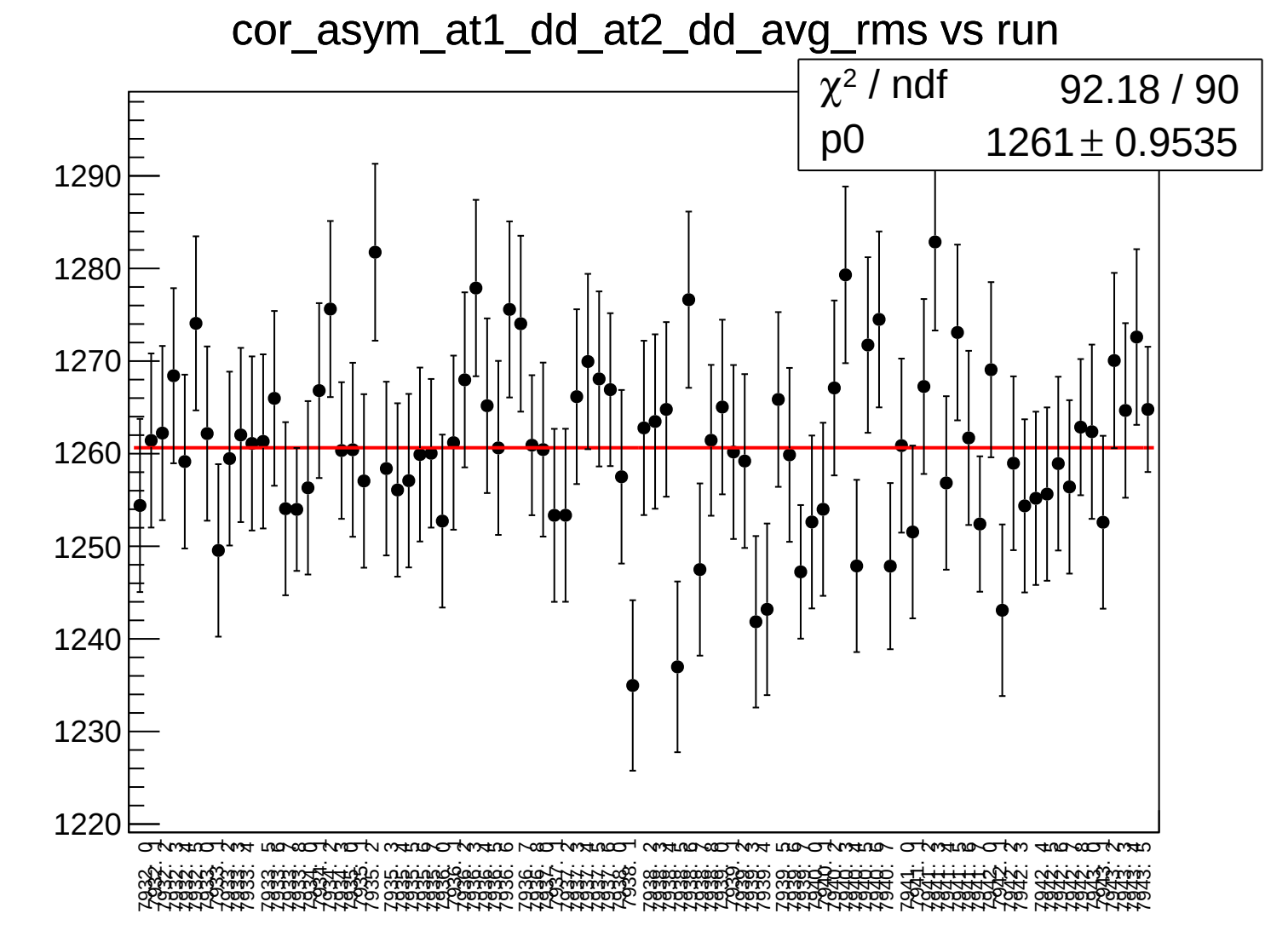
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.18 / 90
p0 1261 ± 0.9535
1290
1280
1270
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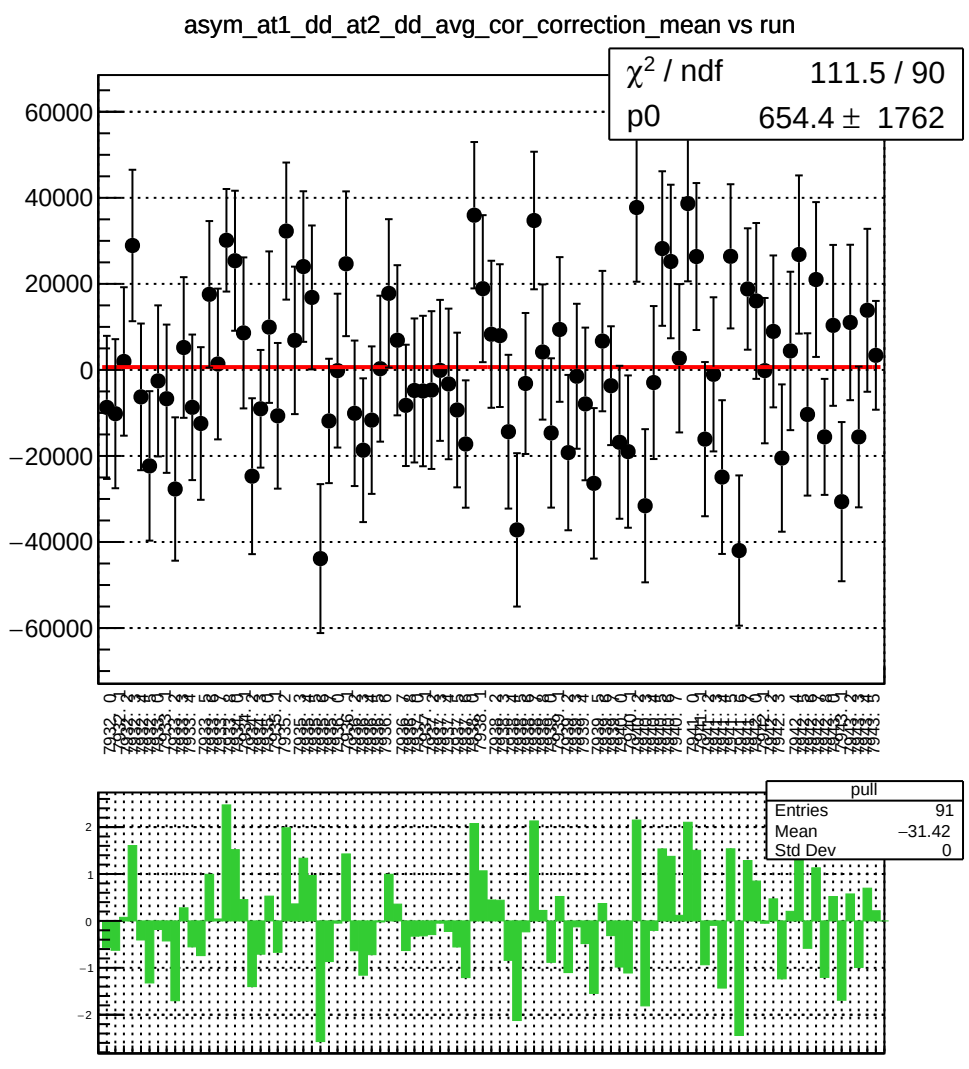
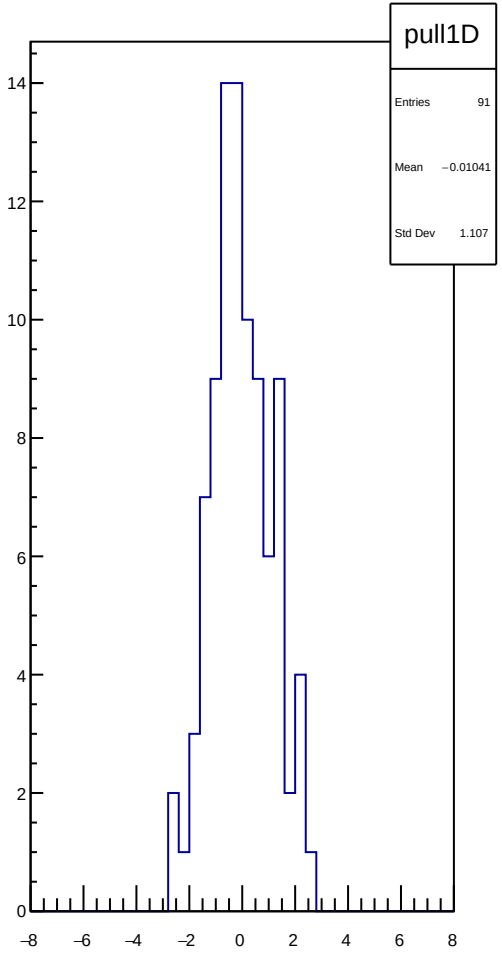
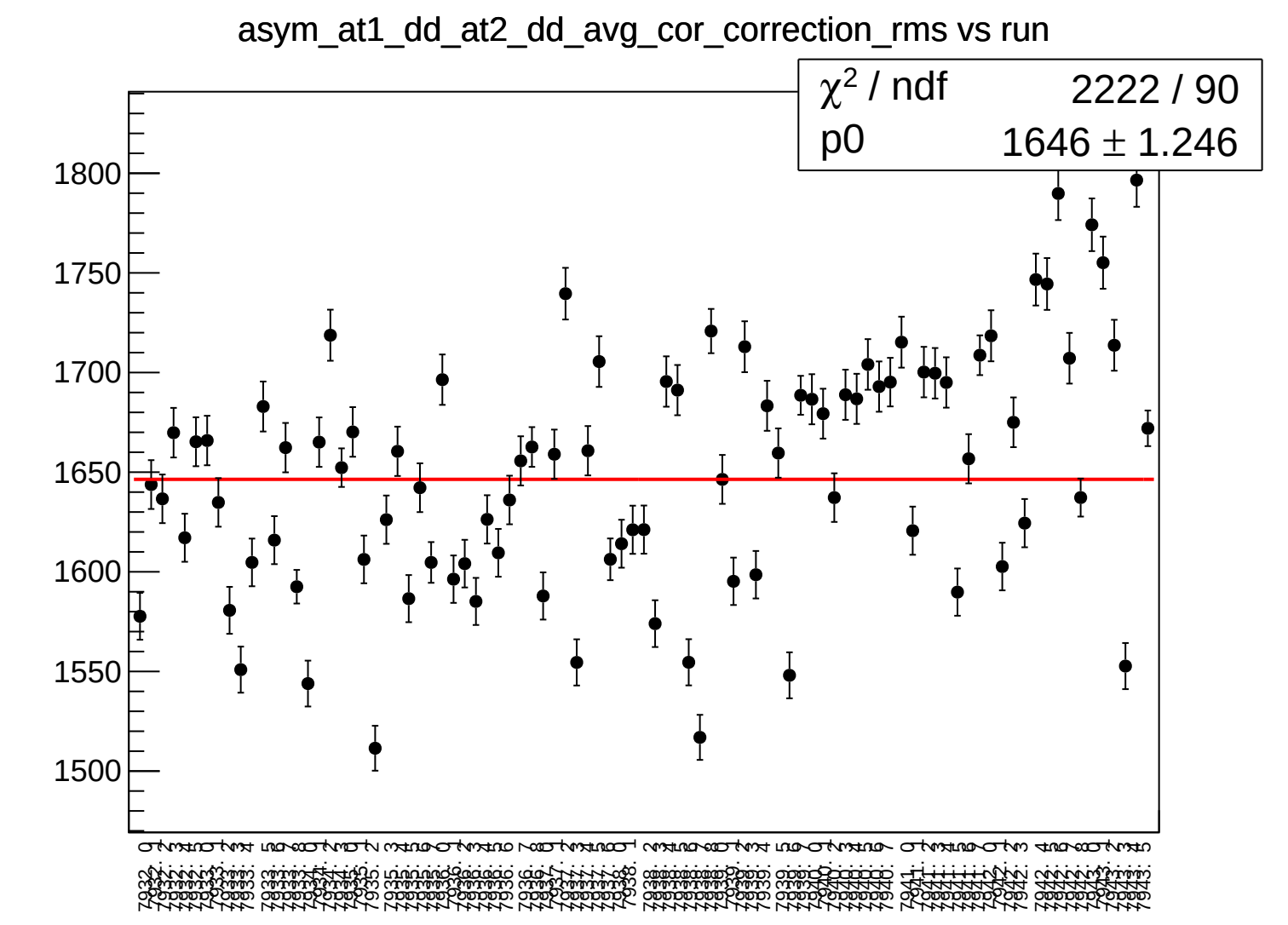
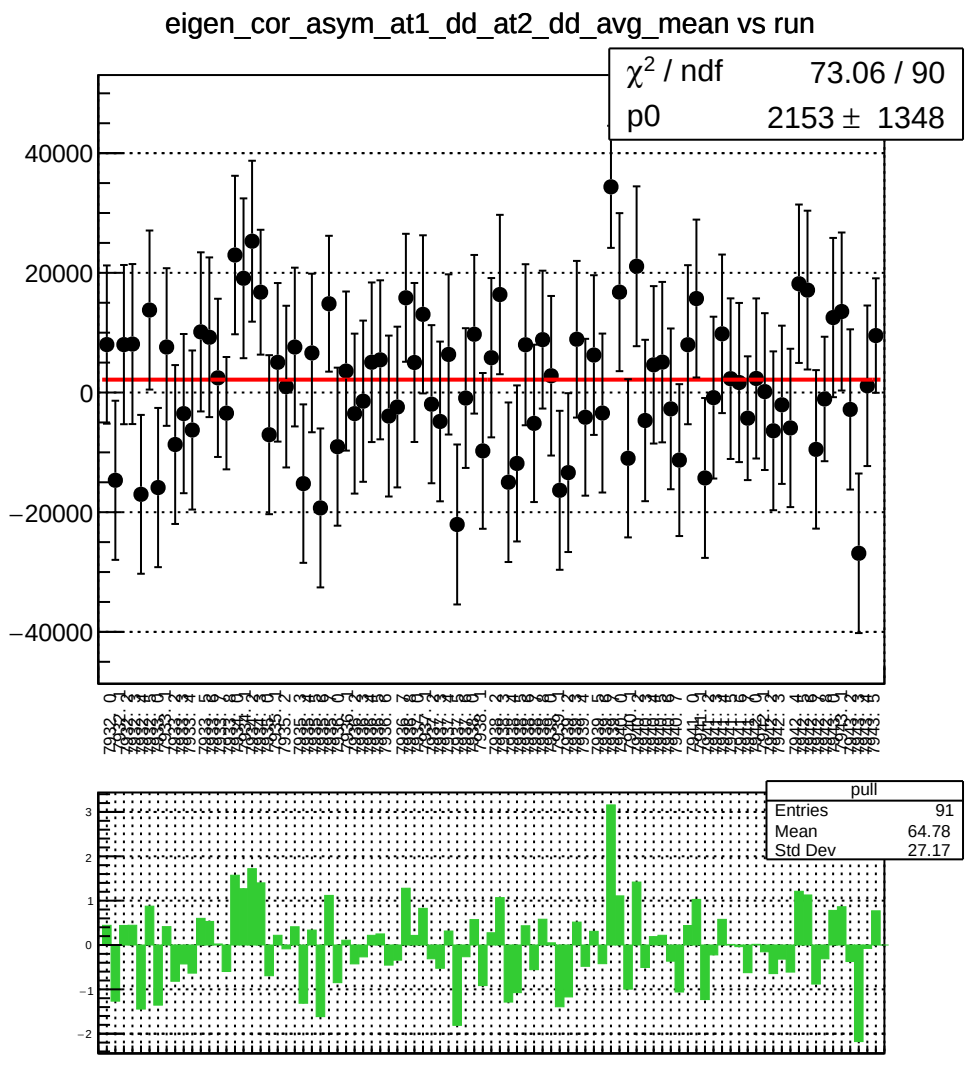
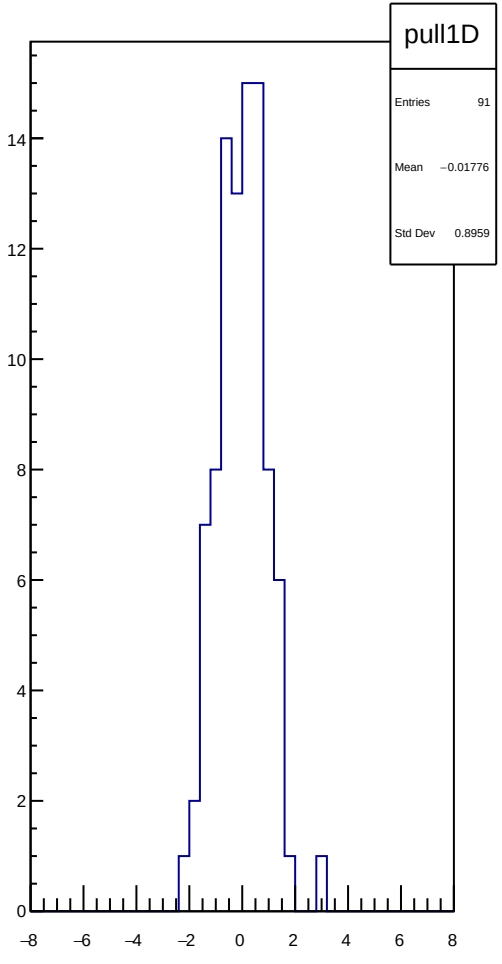
1250
1240
1230
1220


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 111.5 / 90
p0 654.4 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −31.42
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01041
Std Dev 1.107
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 2222 / 90
p0 1646 ± 1.246
1800
1750
1700
1650
1600
1550
1500


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 73.06 / 90
p0 2153 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 64.78
Std Dev 27.17
3
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01776
Std Dev 0.8959
14
12
10
8
6
4
2
0
−8
−6
−4
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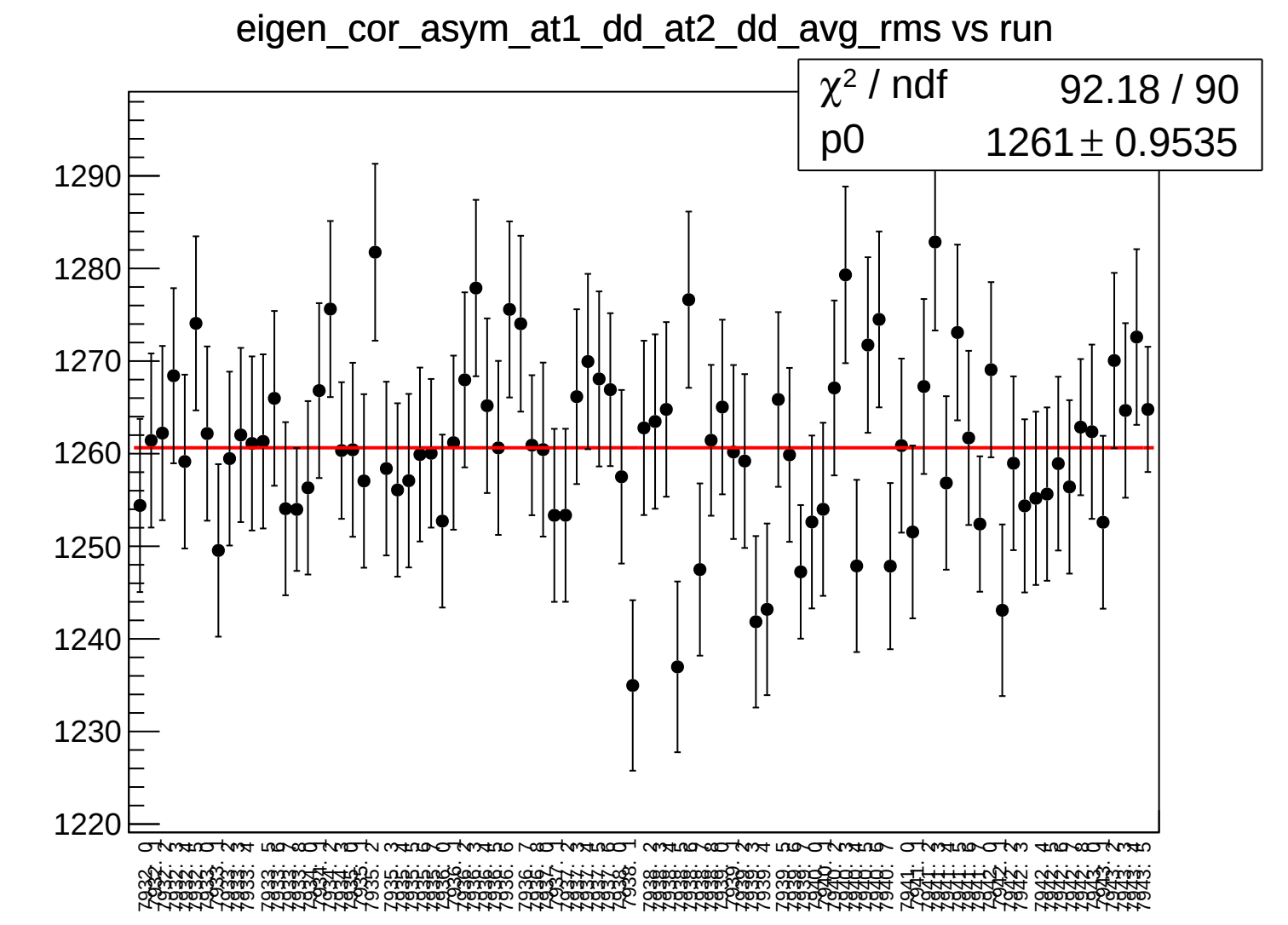
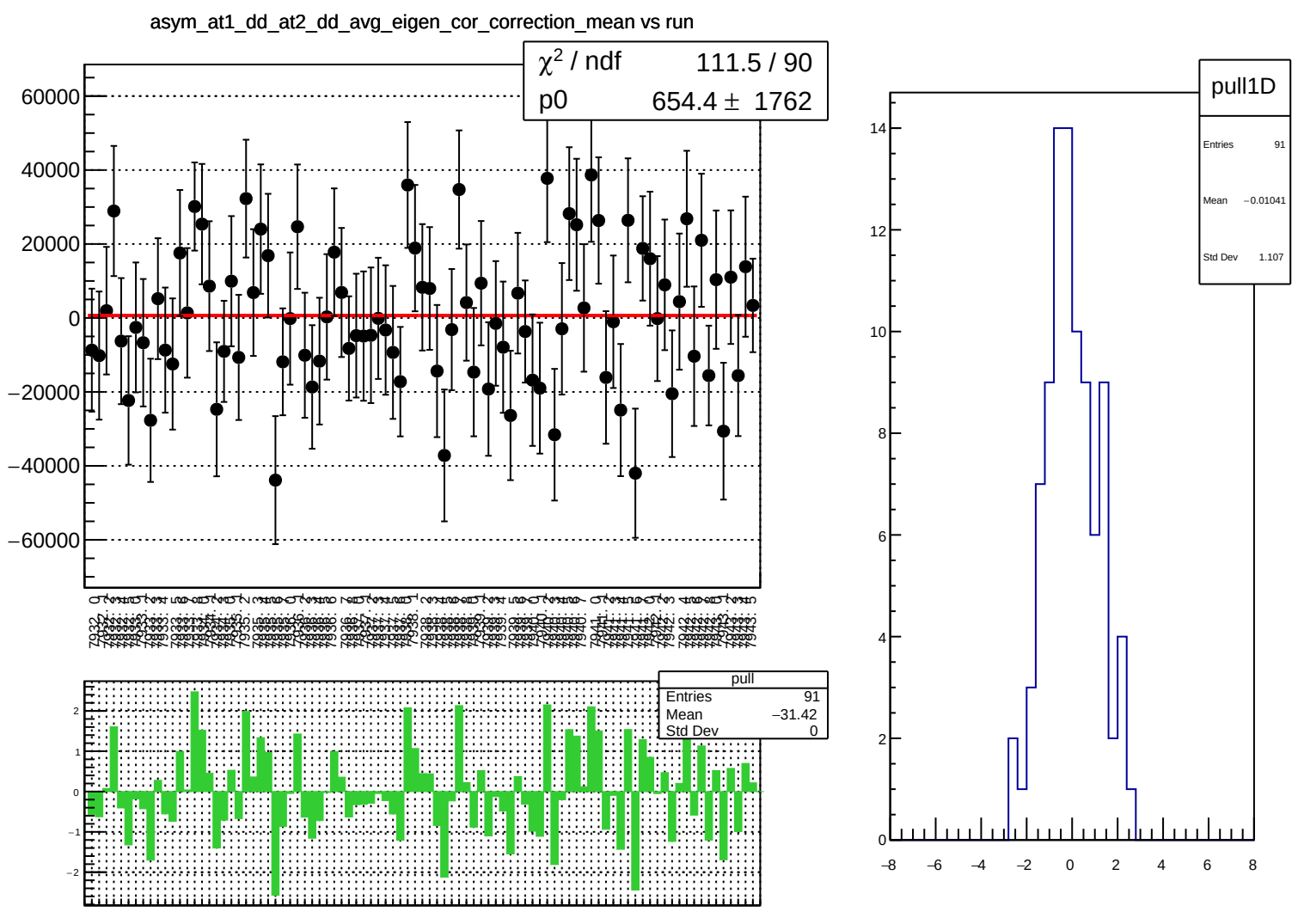
2
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.18 / 90
p0 1261 ± 0.9535
1290
1280
1270
1260
1250
1240
1230
1220


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.5 / 90
p0 654.4 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −31.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01041
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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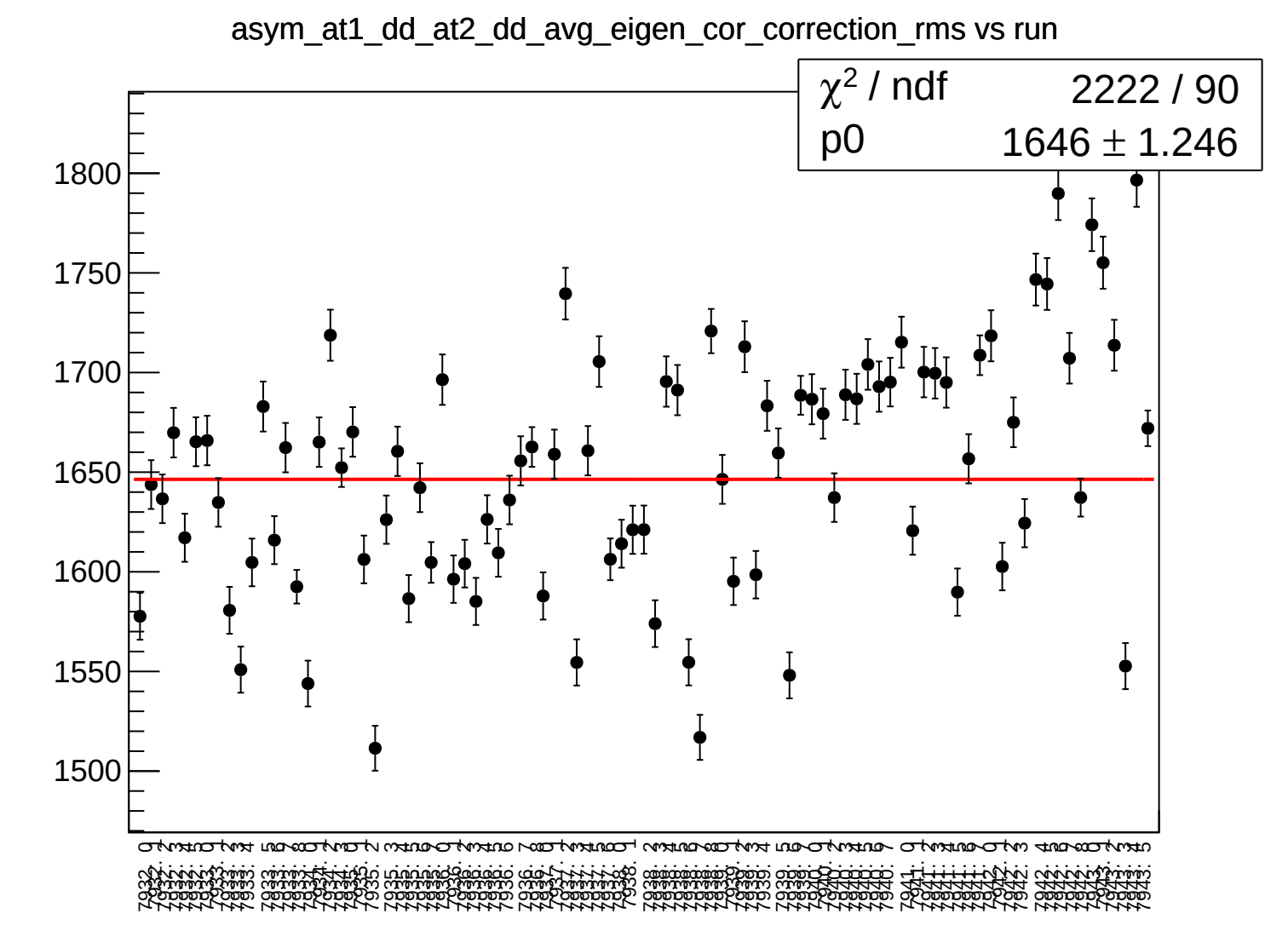
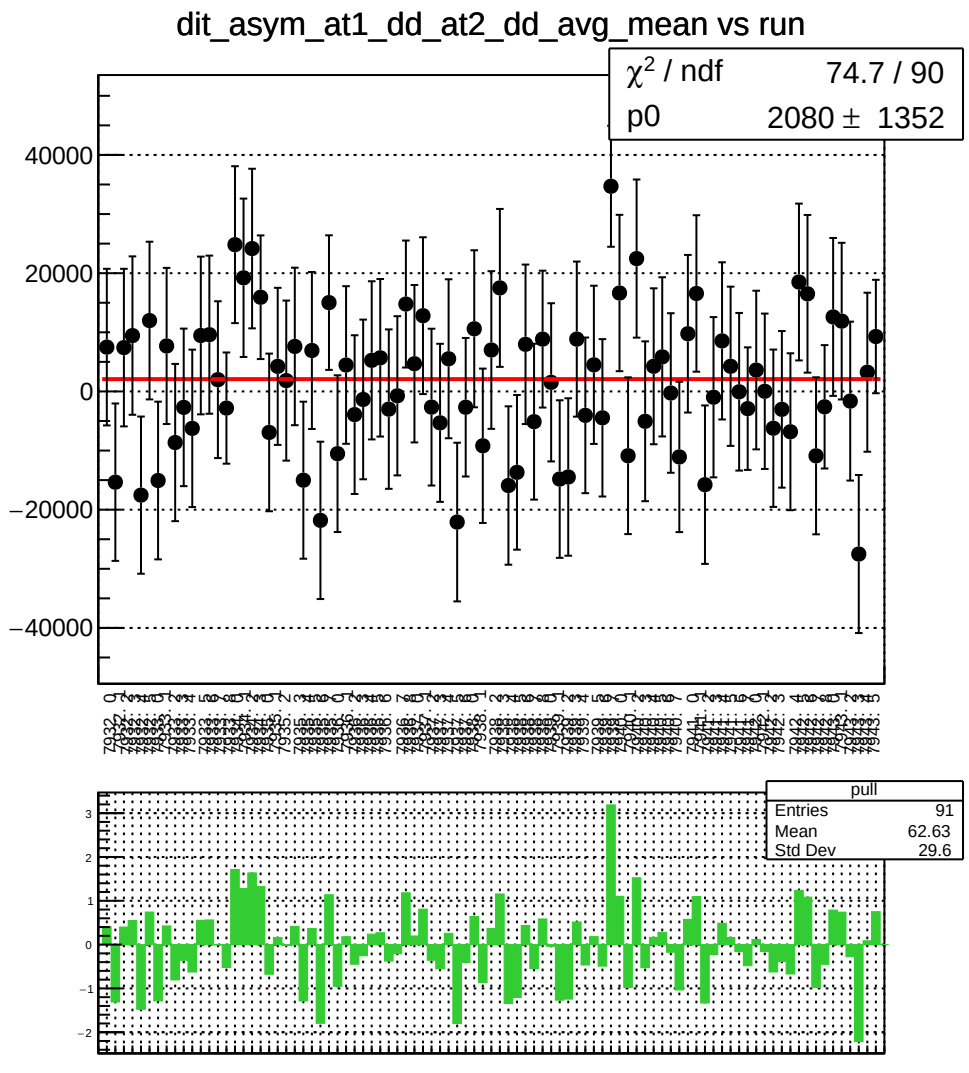
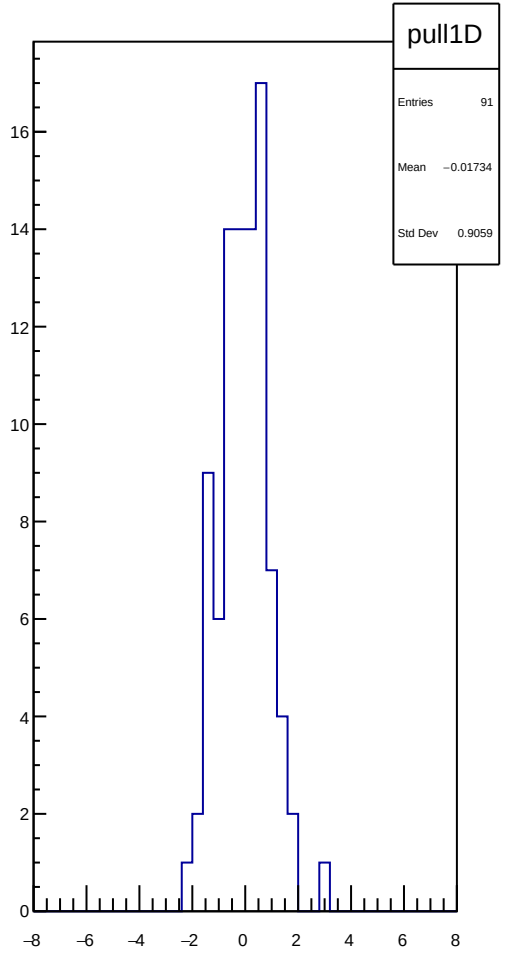
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2222 / 90
p0 1646 ± 1.246
1800
1750
1700
1650
1600
1550
1500


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.7 / 90
p0 2080 ± 1352
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 62.63
Std Dev 29.6
3
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01734
Std Dev 0.9059
16
14
12
10
8
6
4
2
0
−8
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−4
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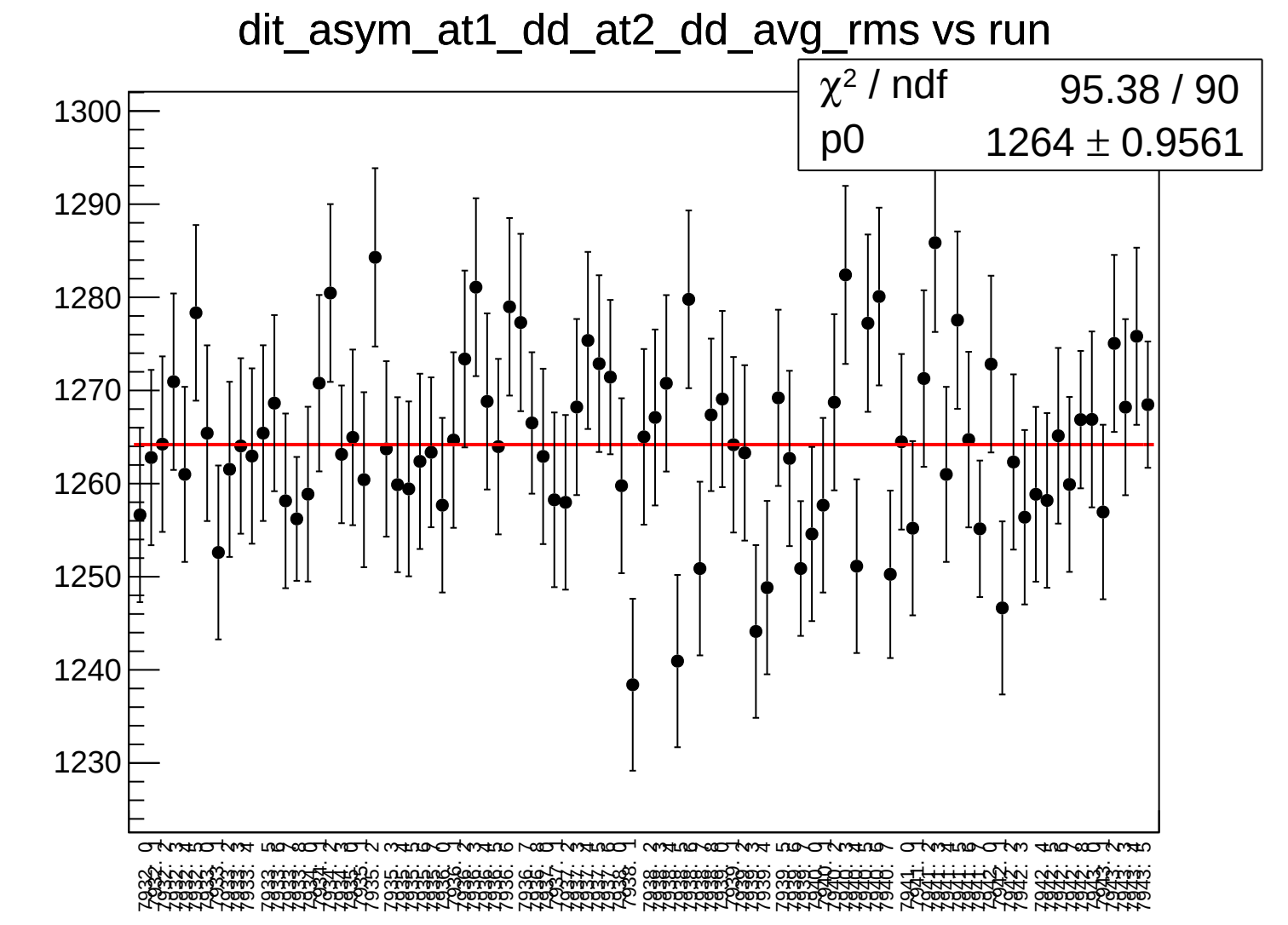
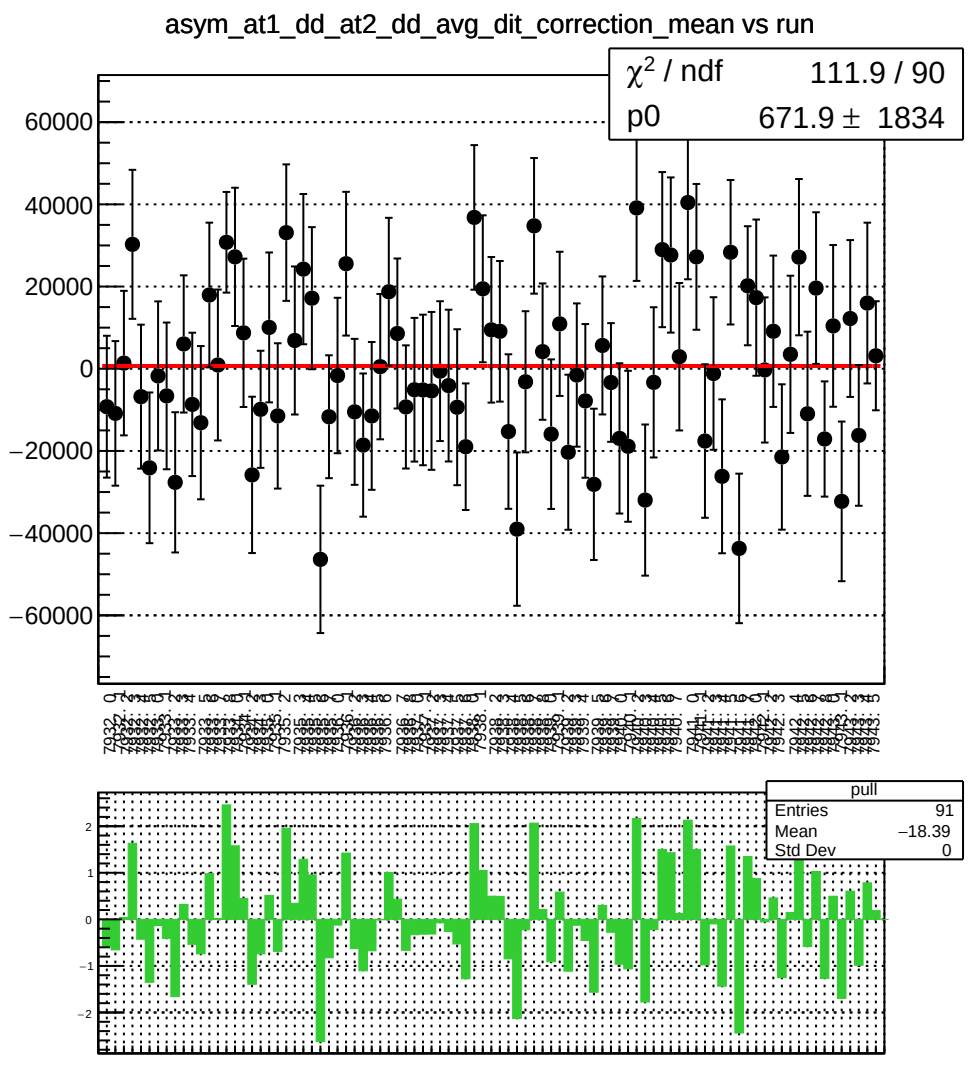
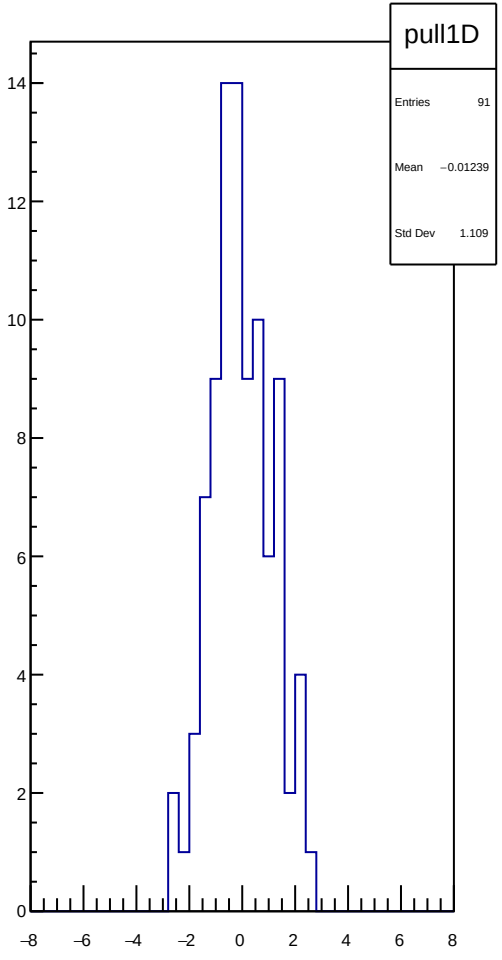
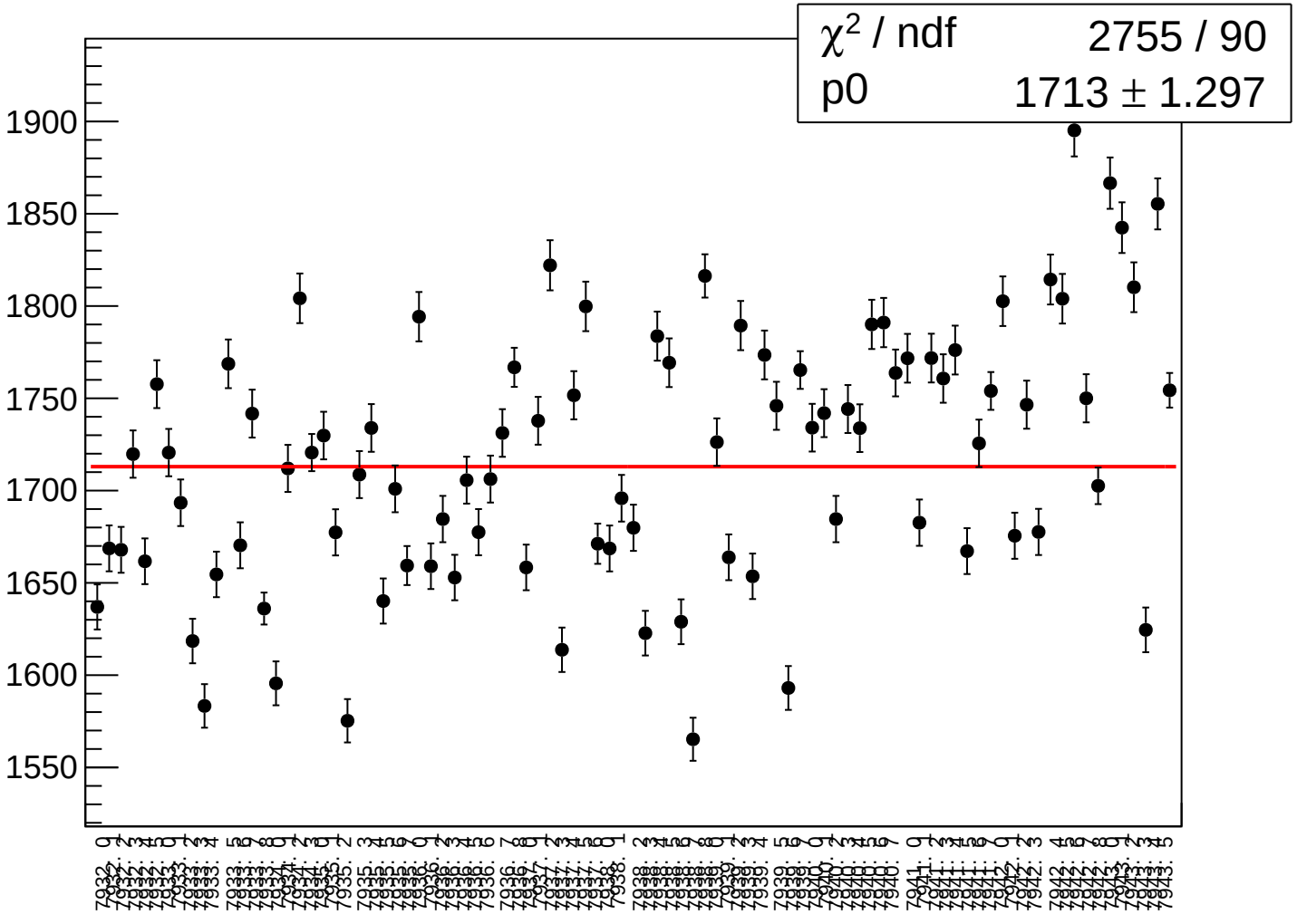
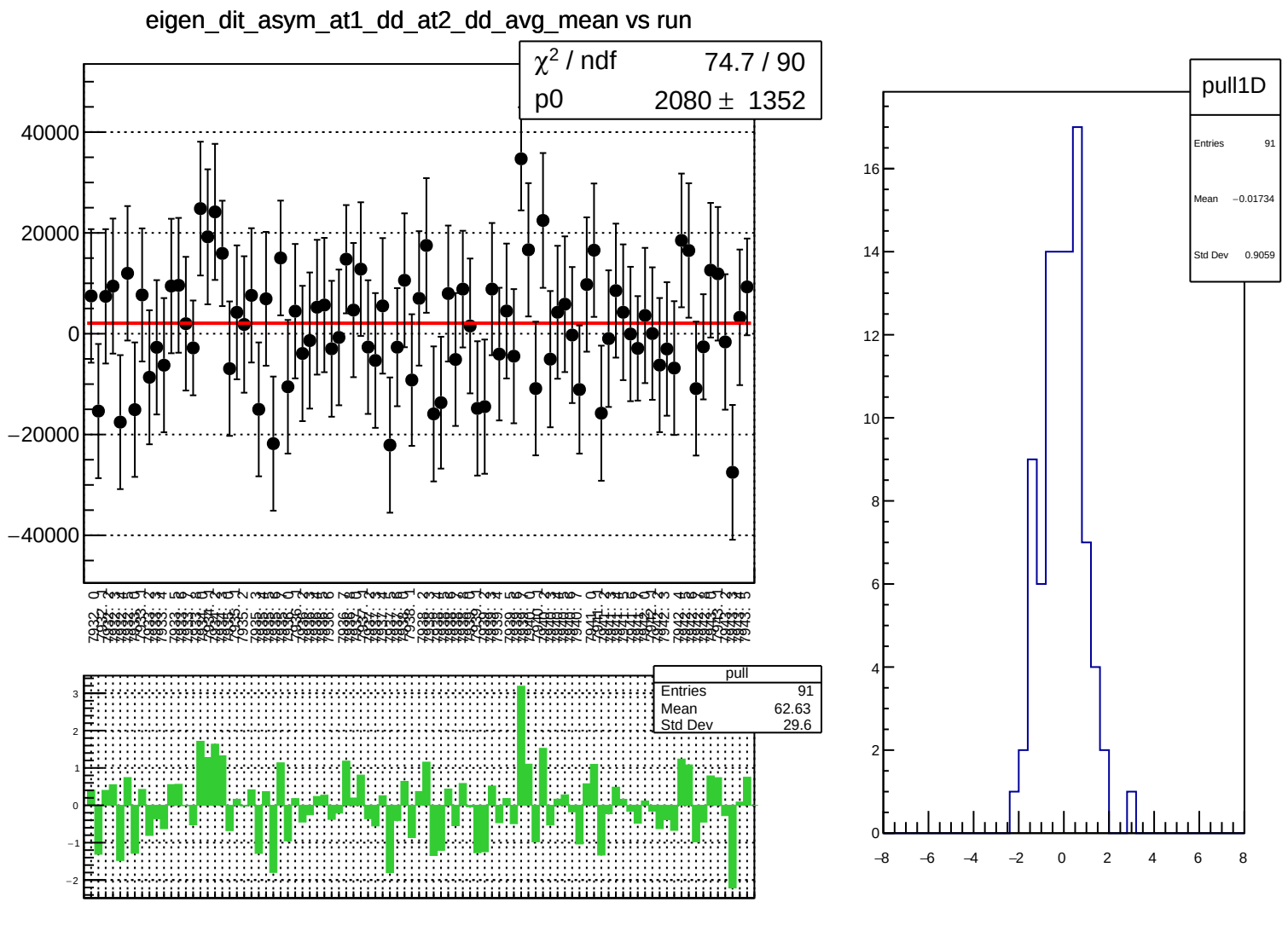
0
2
4
6
8

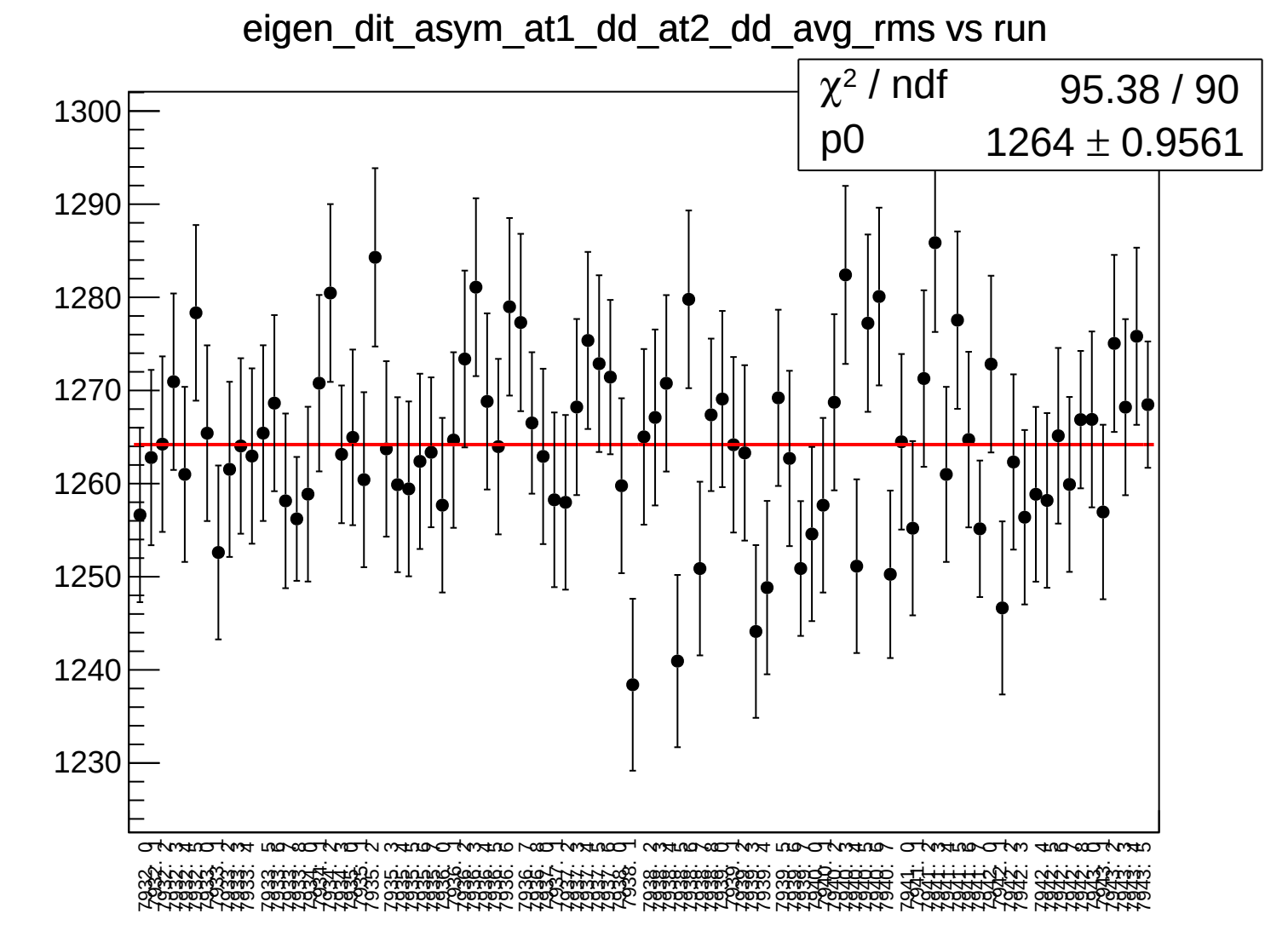

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.38 / 90
p0 1264 ± 0.9561
1300
1290
1280
1270
1260
1250
1240
1230

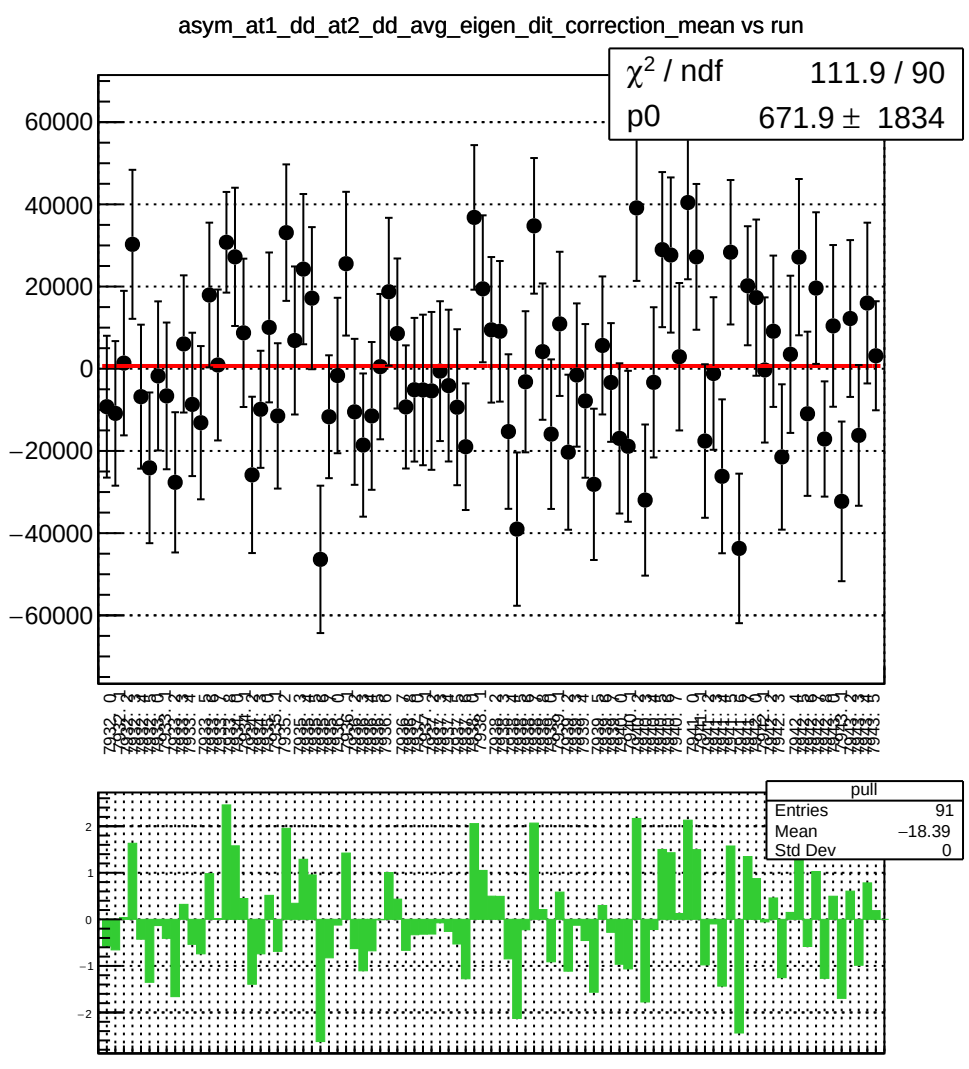

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 111.9 / 90
p0 671.9 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −18.39
Std Dev 0
2
1
0
−1
−2

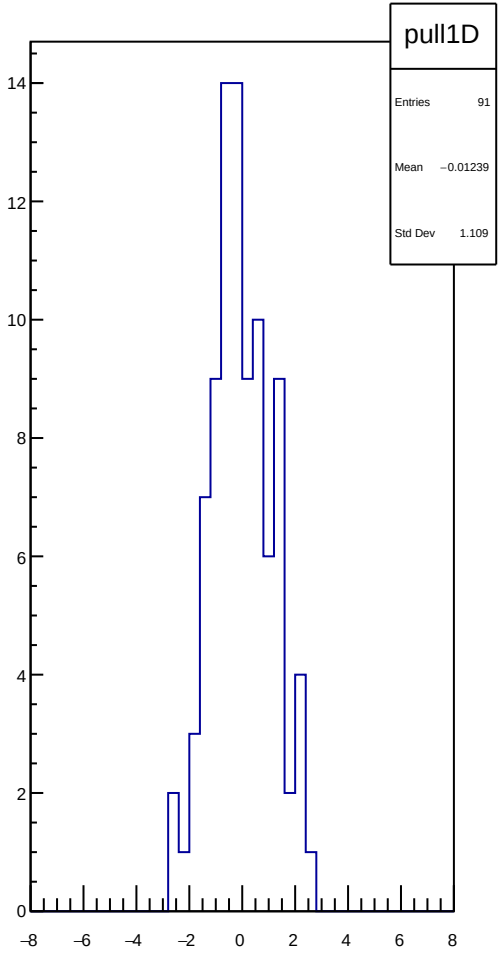

pull1D
Entries 91
Mean −0.01239
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

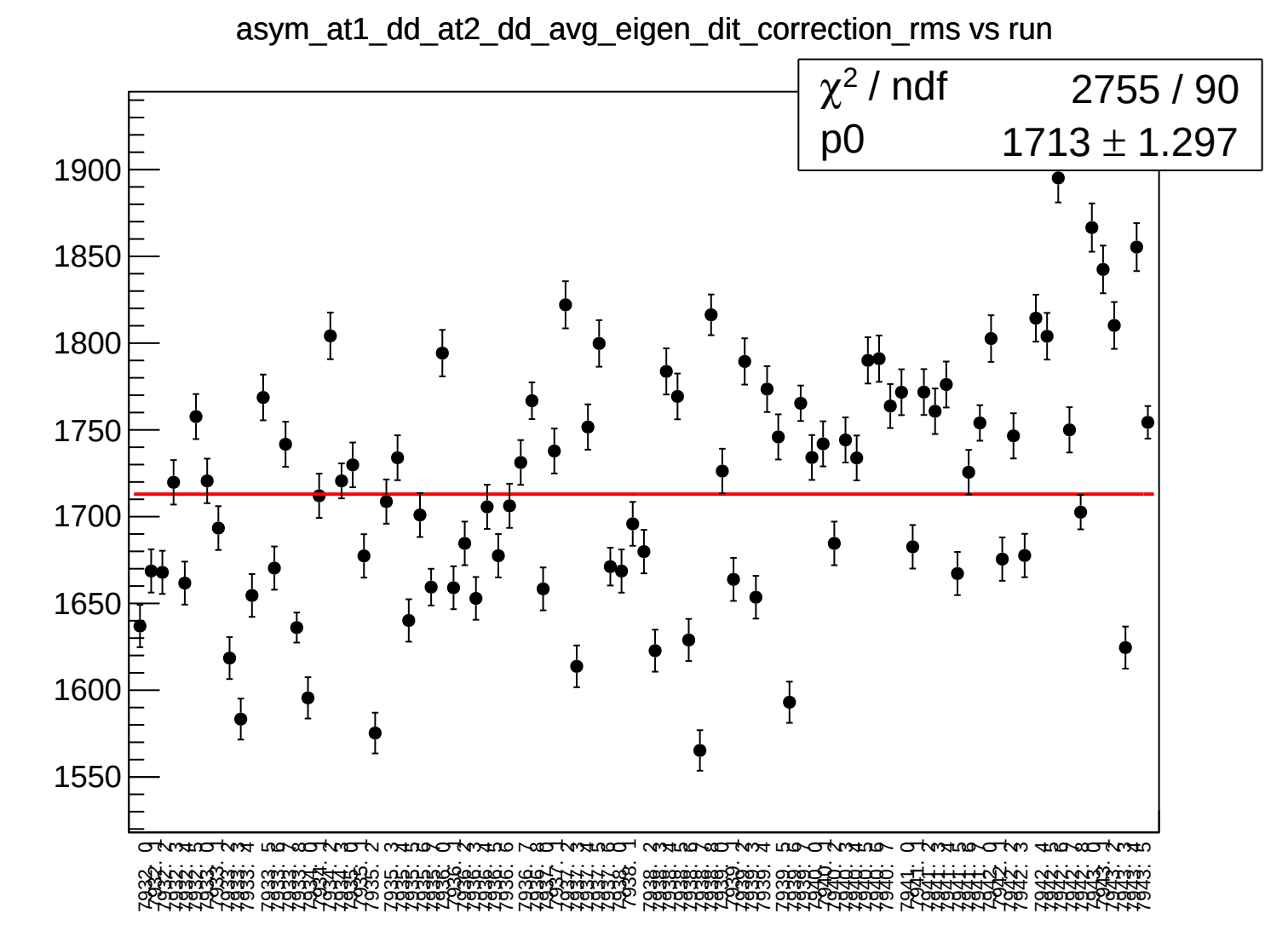

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2755 / 90
p0 1713 ± 1.297
1900
1850
1800
1750
1700
1650
1600
1550

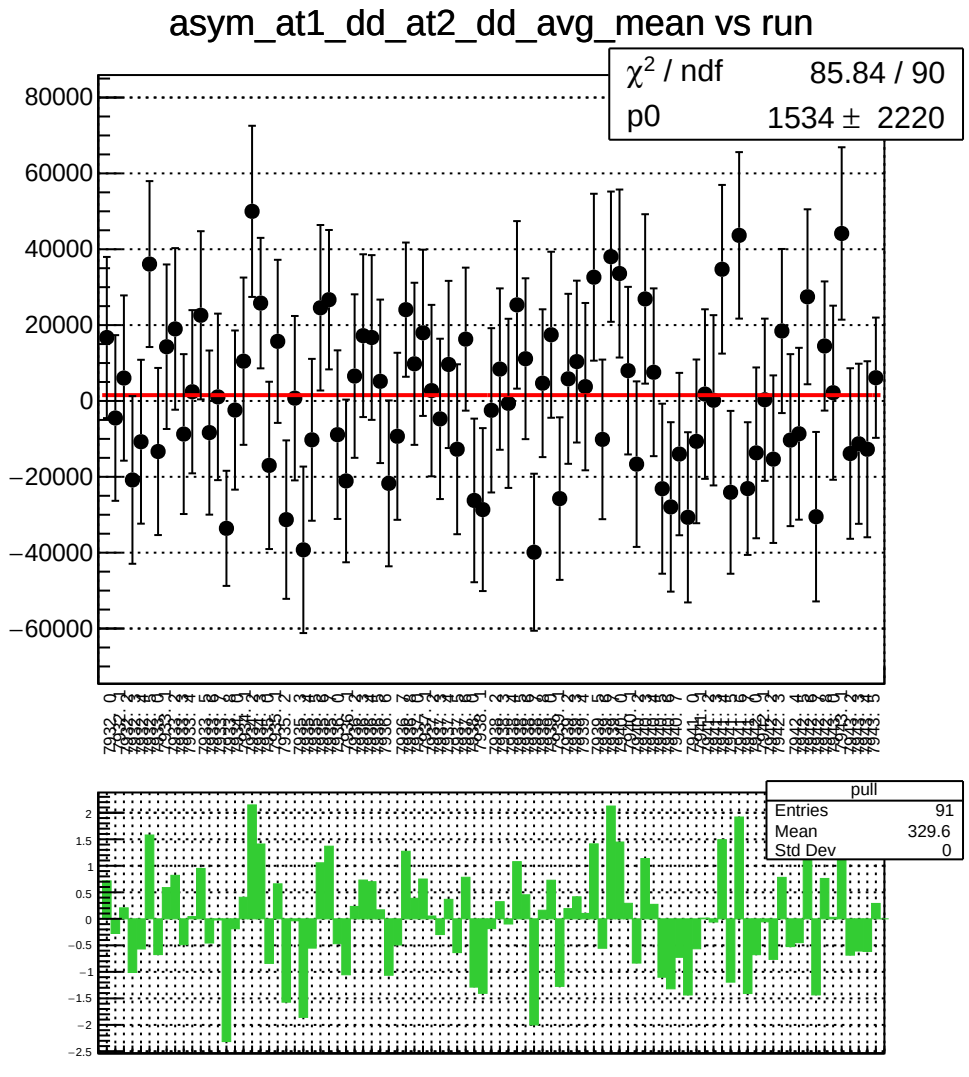

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.7 / 90
p0 2080 ± 1352
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 62.63
Std Dev 29.6
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01734
Std Dev 0.9059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

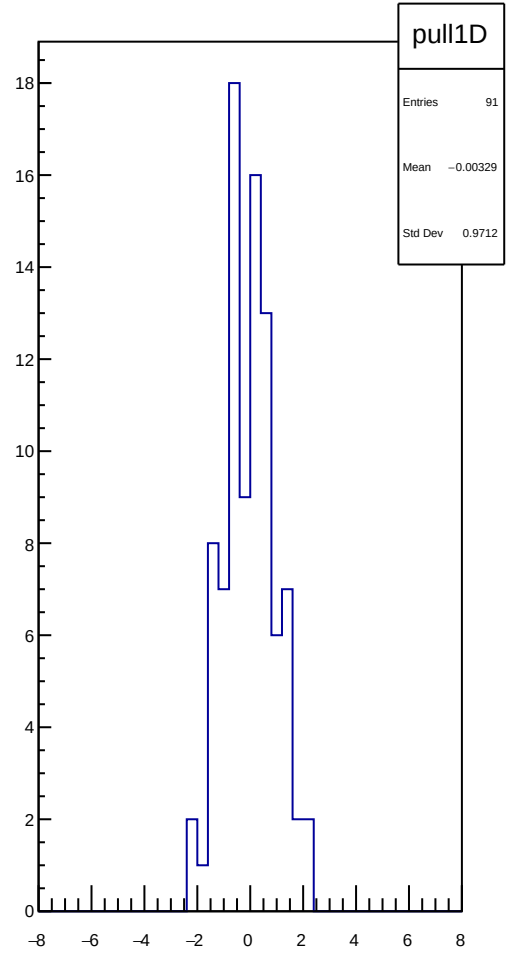

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.38 / 90
p0 1264 ± 0.9561
1300
1290
1280
1270
1260
1250
1240
1230

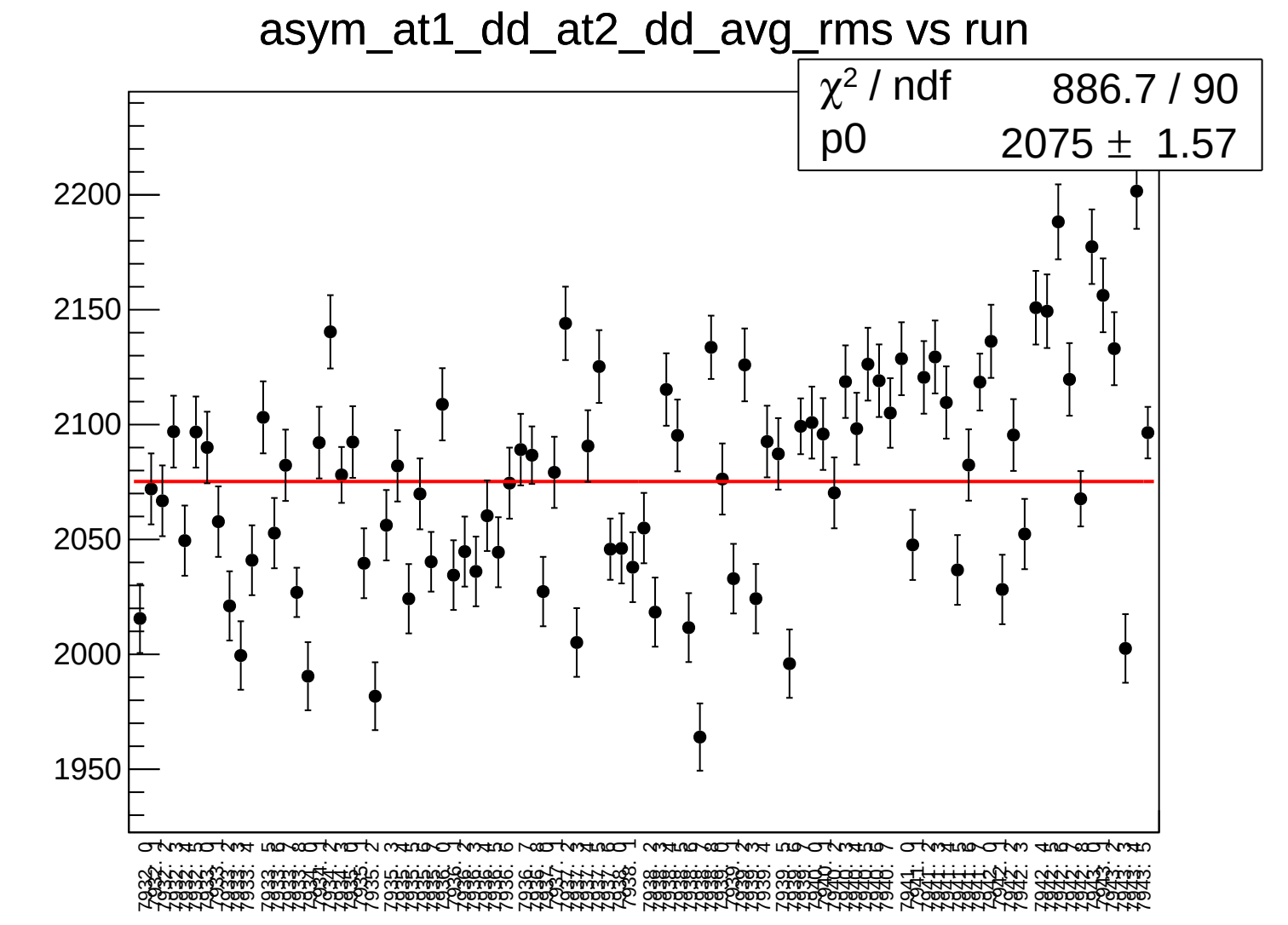

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 111.9 / 90
p0 671.9 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −18.39
Std Dev 0
2
1
0
−1
−2

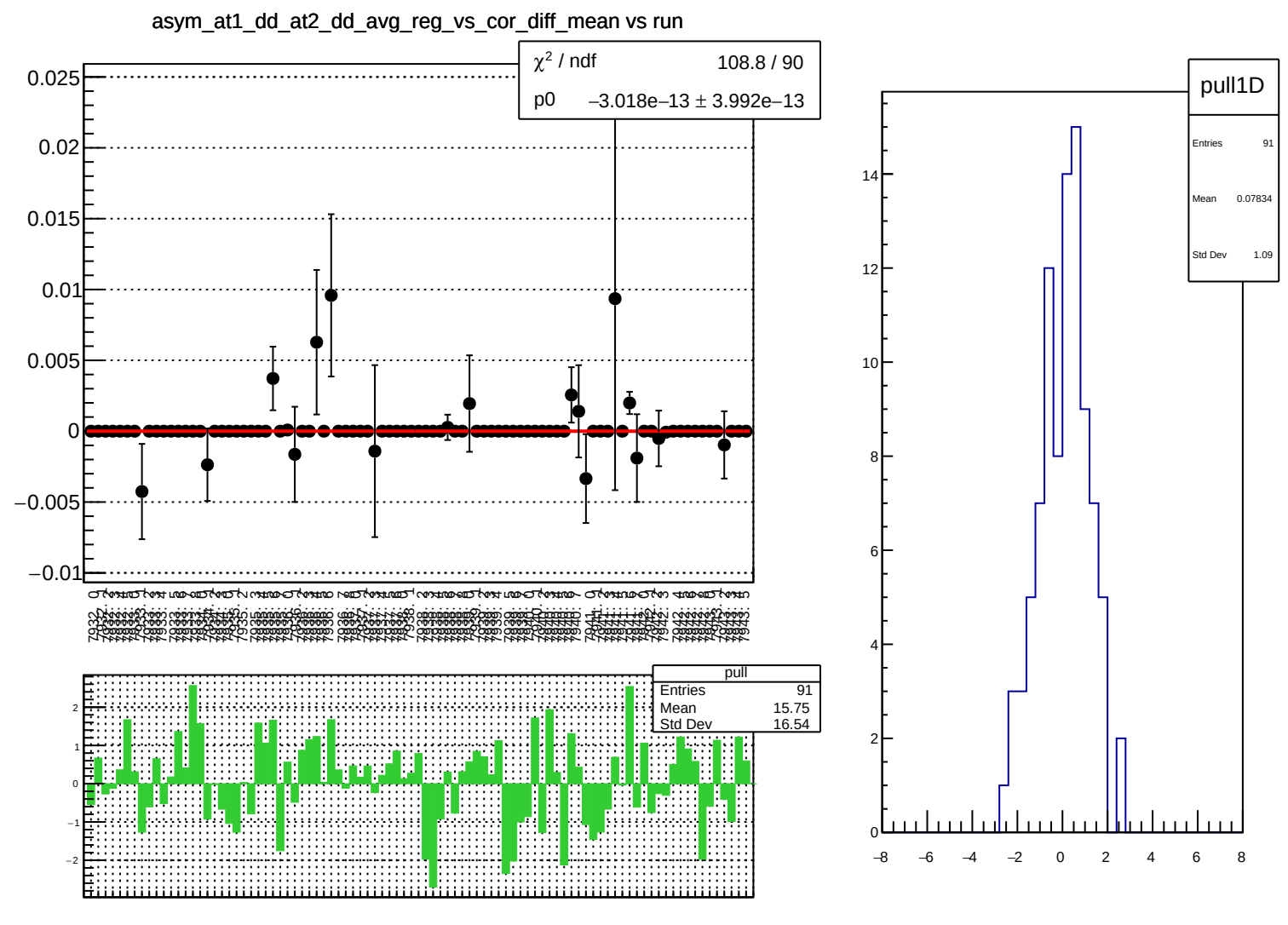

pull1D
Entries 91
Mean −0.01239
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

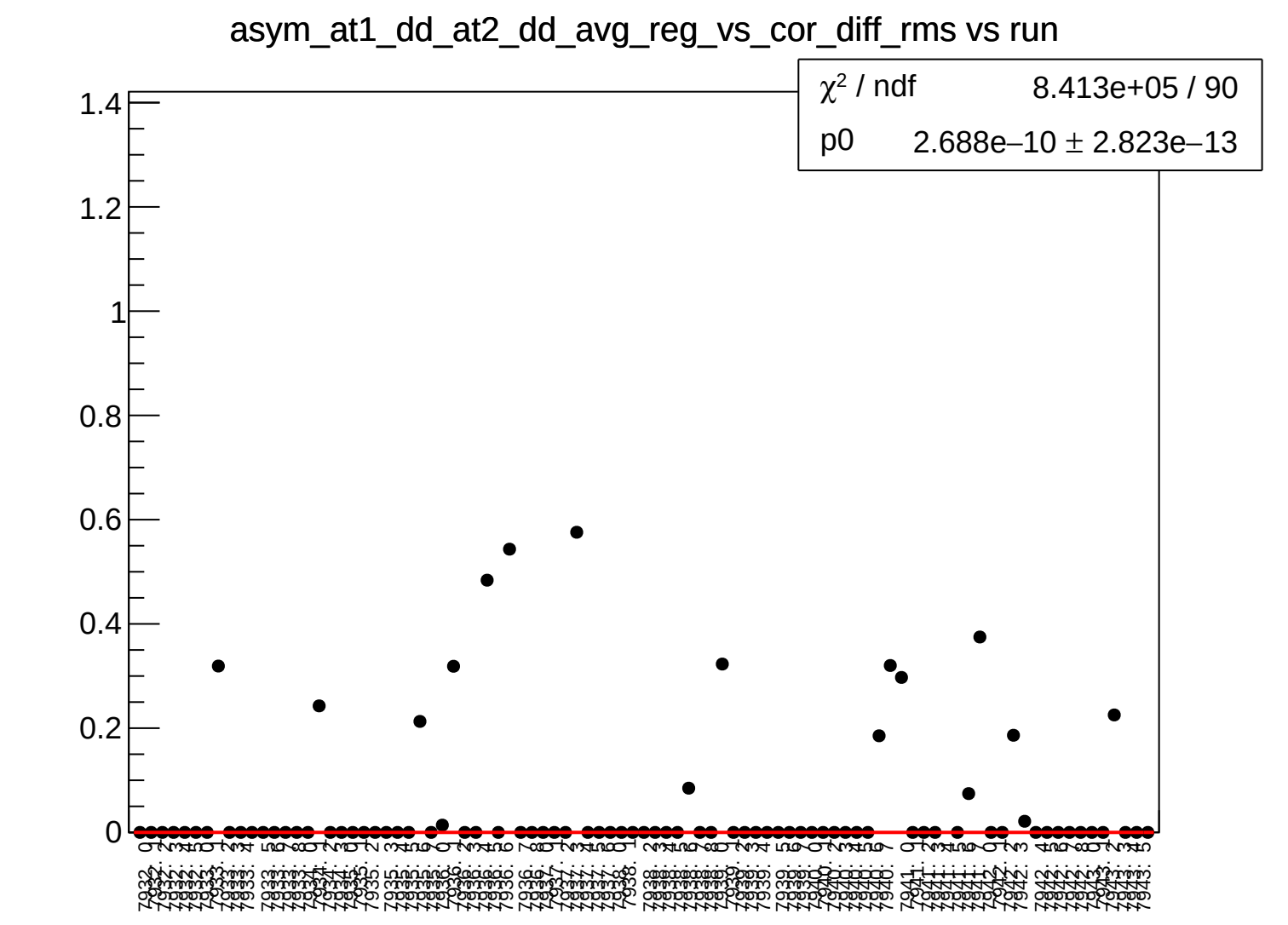

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2755 / 90
p0 1713 ± 1.297
1900
1850
1800
1750
1700
1650
1600
1550

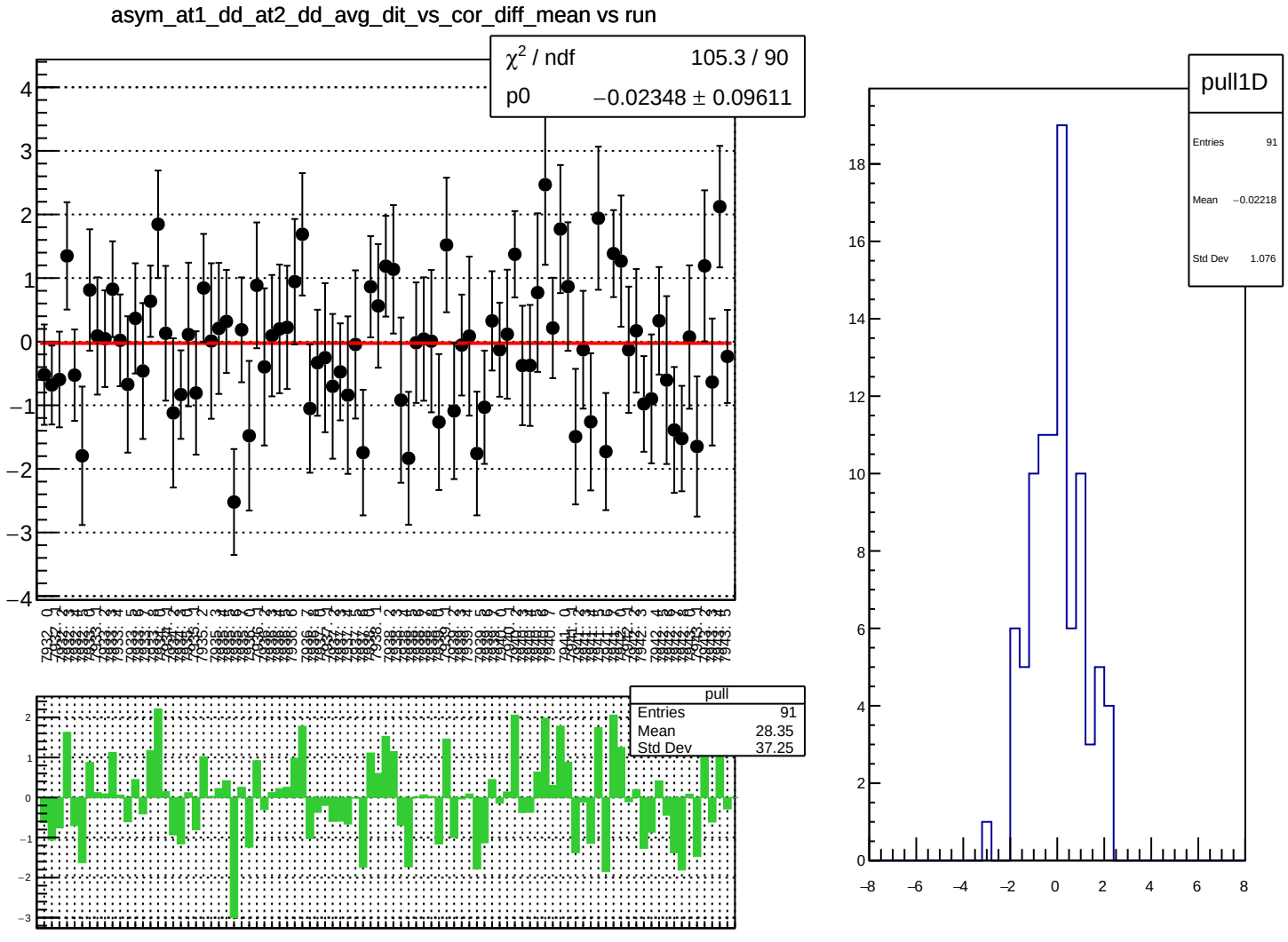

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.84 / 90
p0 1534 ± 2220
pull
Entries 91
Mean 329.6
Std Dev 0

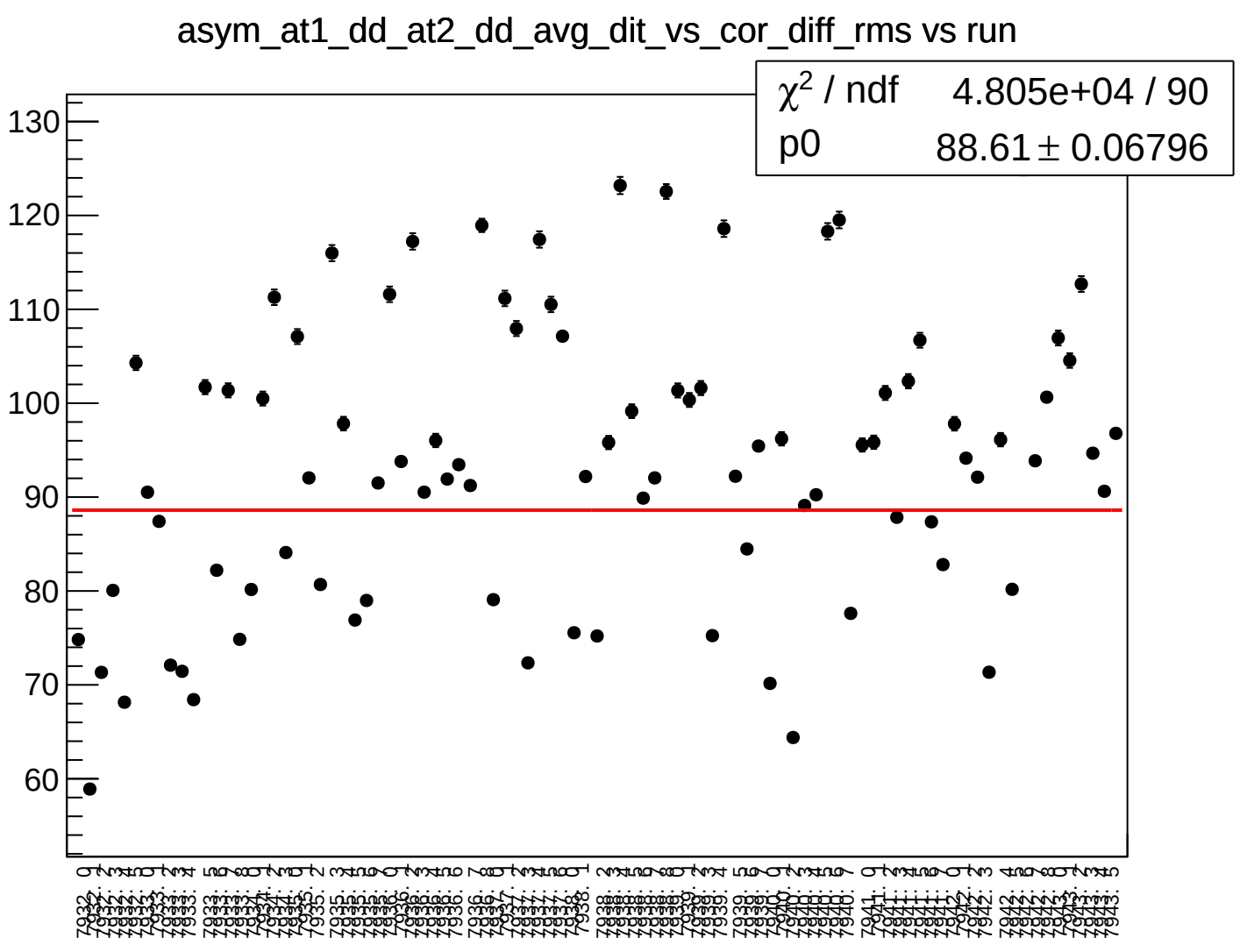

pull1D
Entries 91
Mean −0.00329
Std Dev 0.9712


asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 886.7 / 90
p0 2075 ± 1.57
2200
2150
2100
2050
2000
1950


asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 90
p0 −3.018e−13 ± 3.992e−13
pull
Entries 91
Mean 15.75
Std Dev 16.54
pull1D
Entries 91
Mean 0.07834
Std Dev 1.09


asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.413e+05 / 90
p0 2.688e−10 ± 2.823e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0


asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09611
pull
Entries 91
Mean 28.35
Std Dev 37.25
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076


asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.805e+04 / 90
p0 88.61 ± 0.06796
130
120
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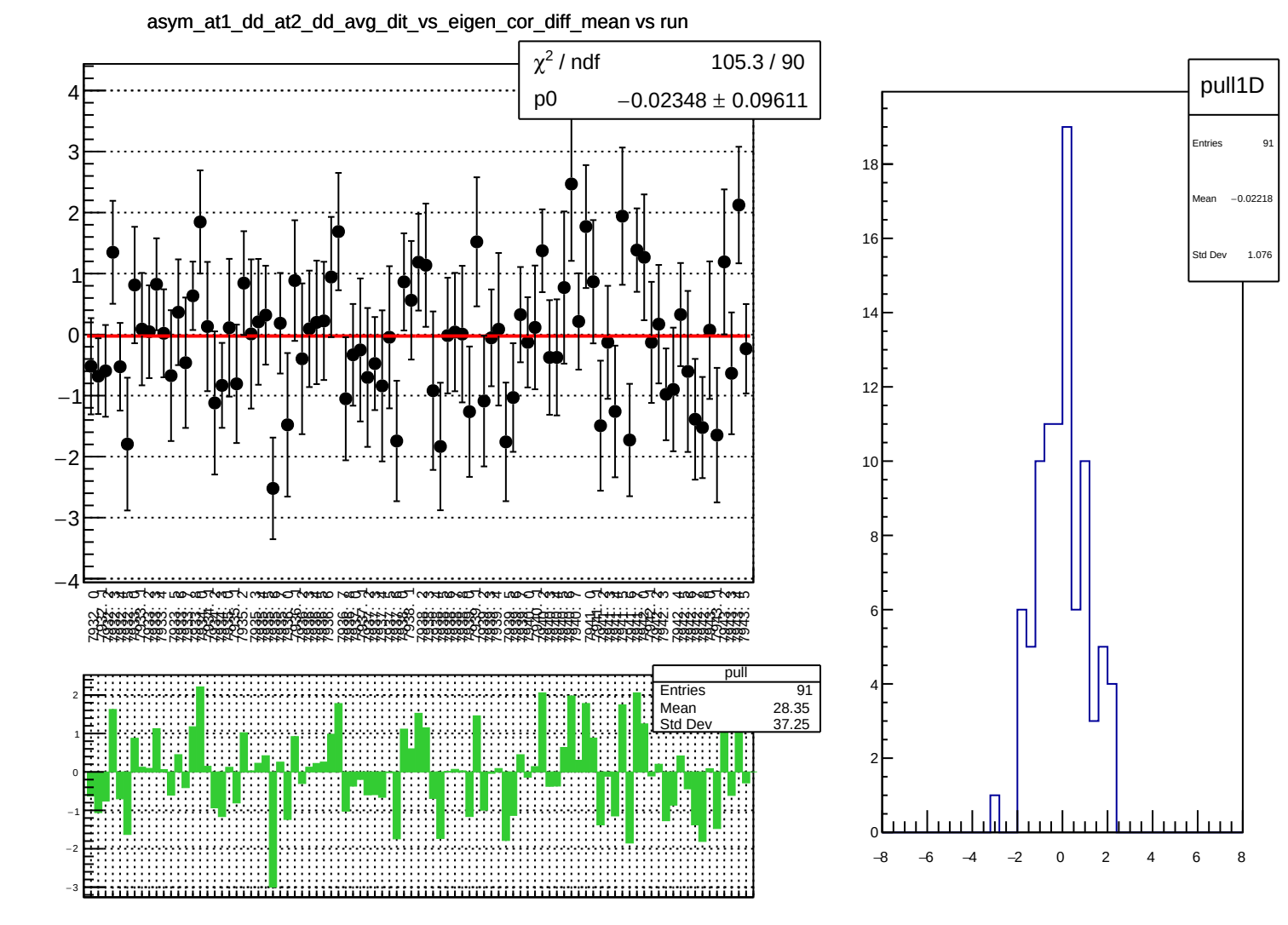
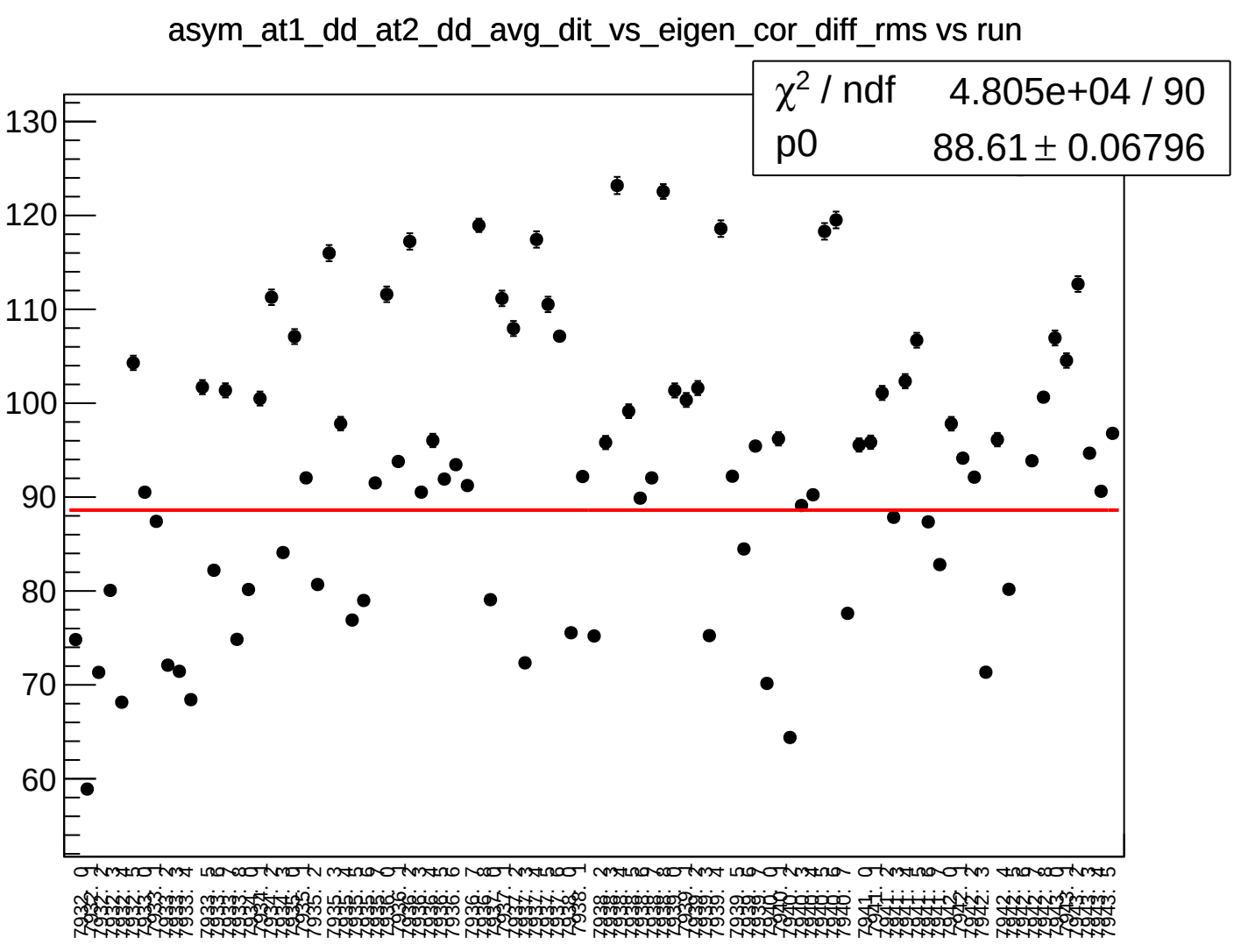
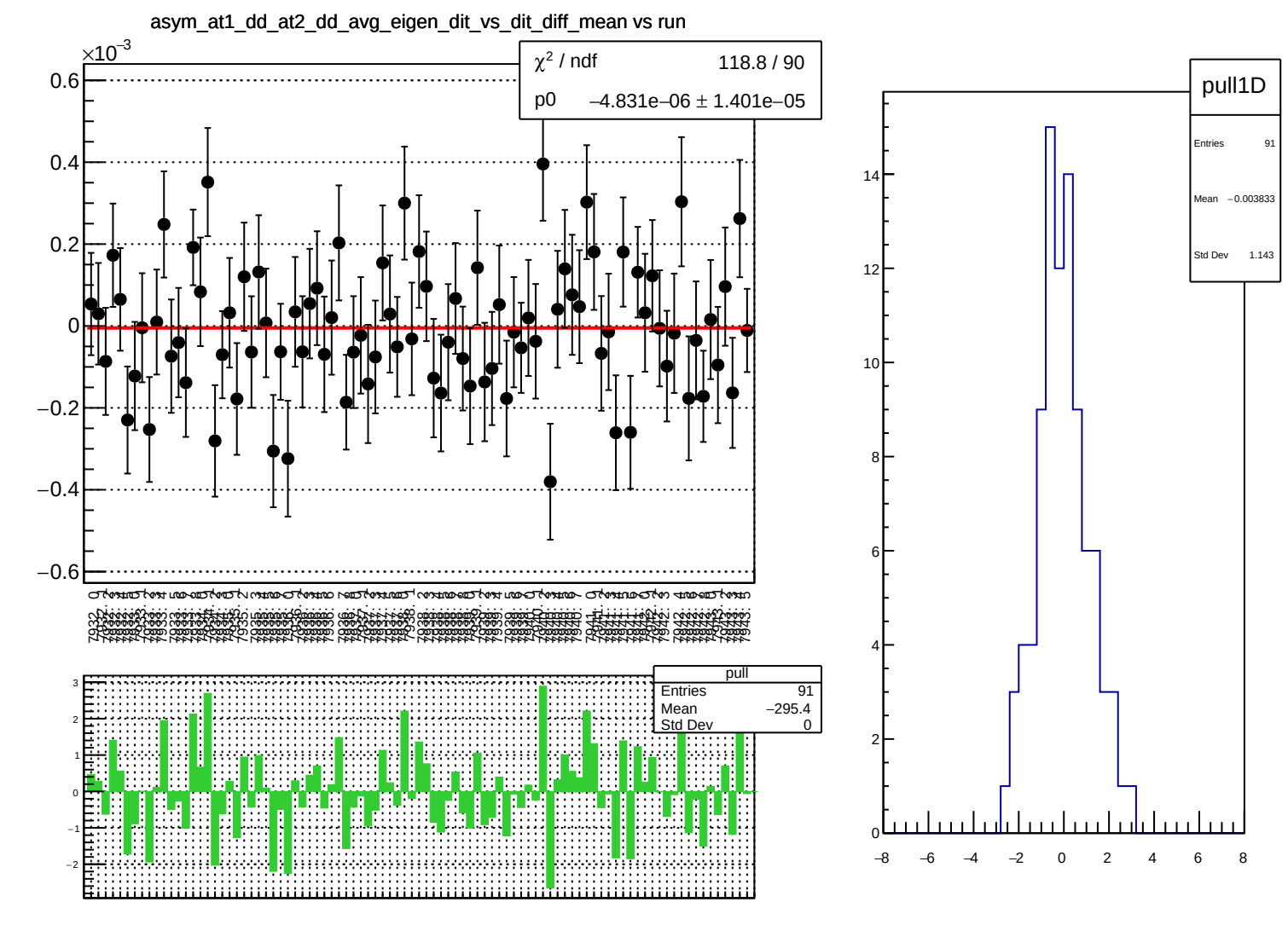
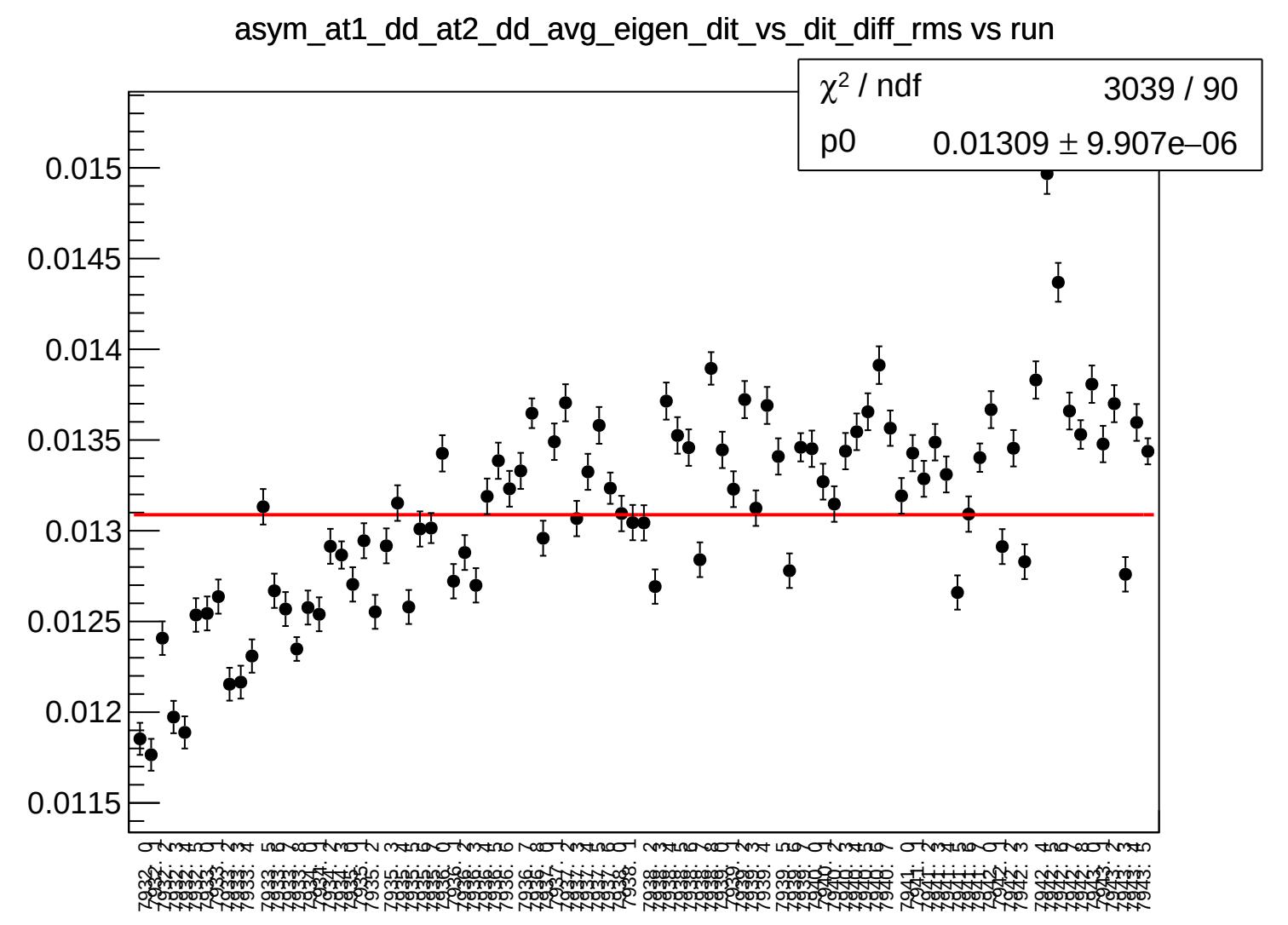
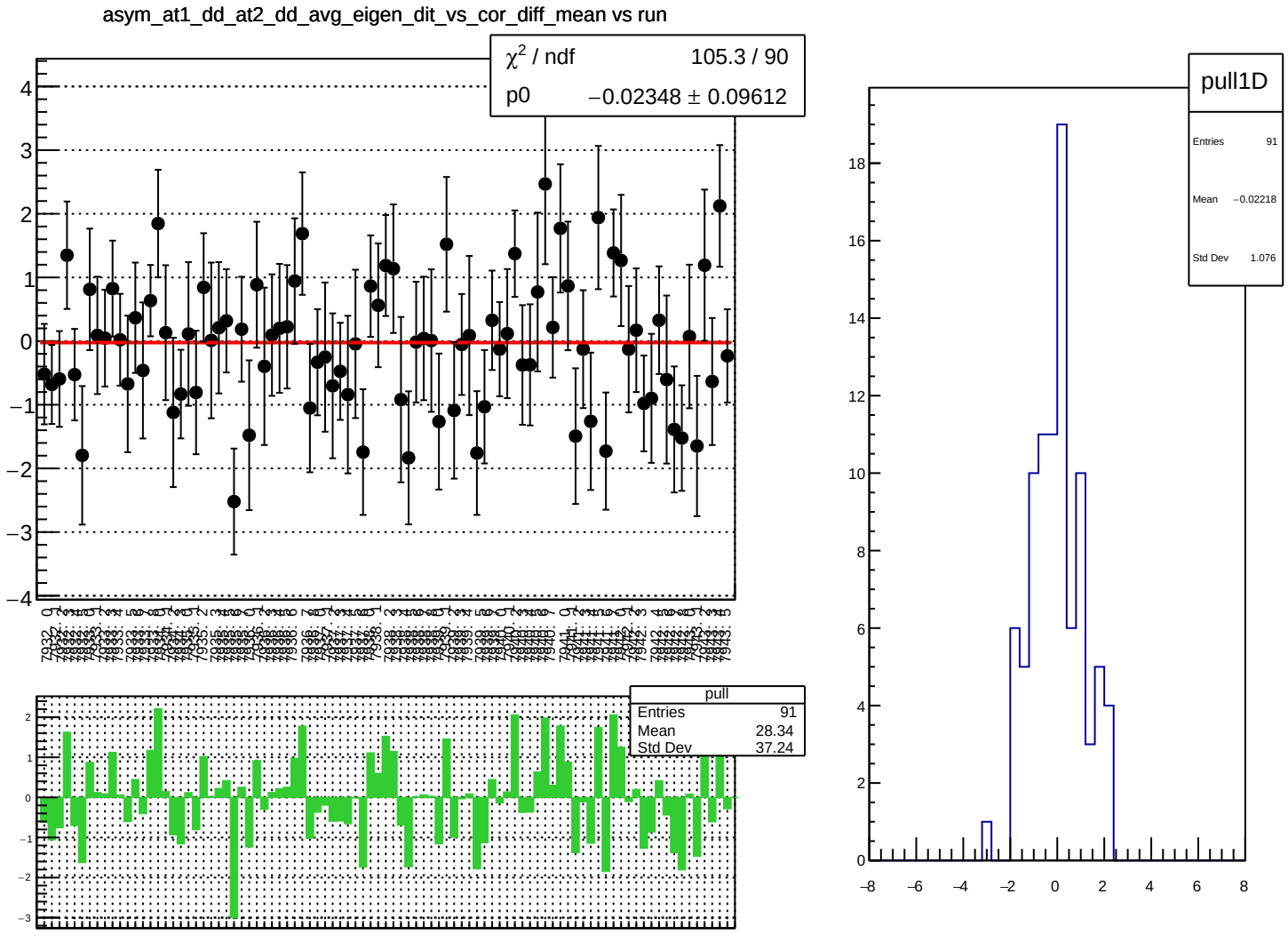
100
90
80
70
60

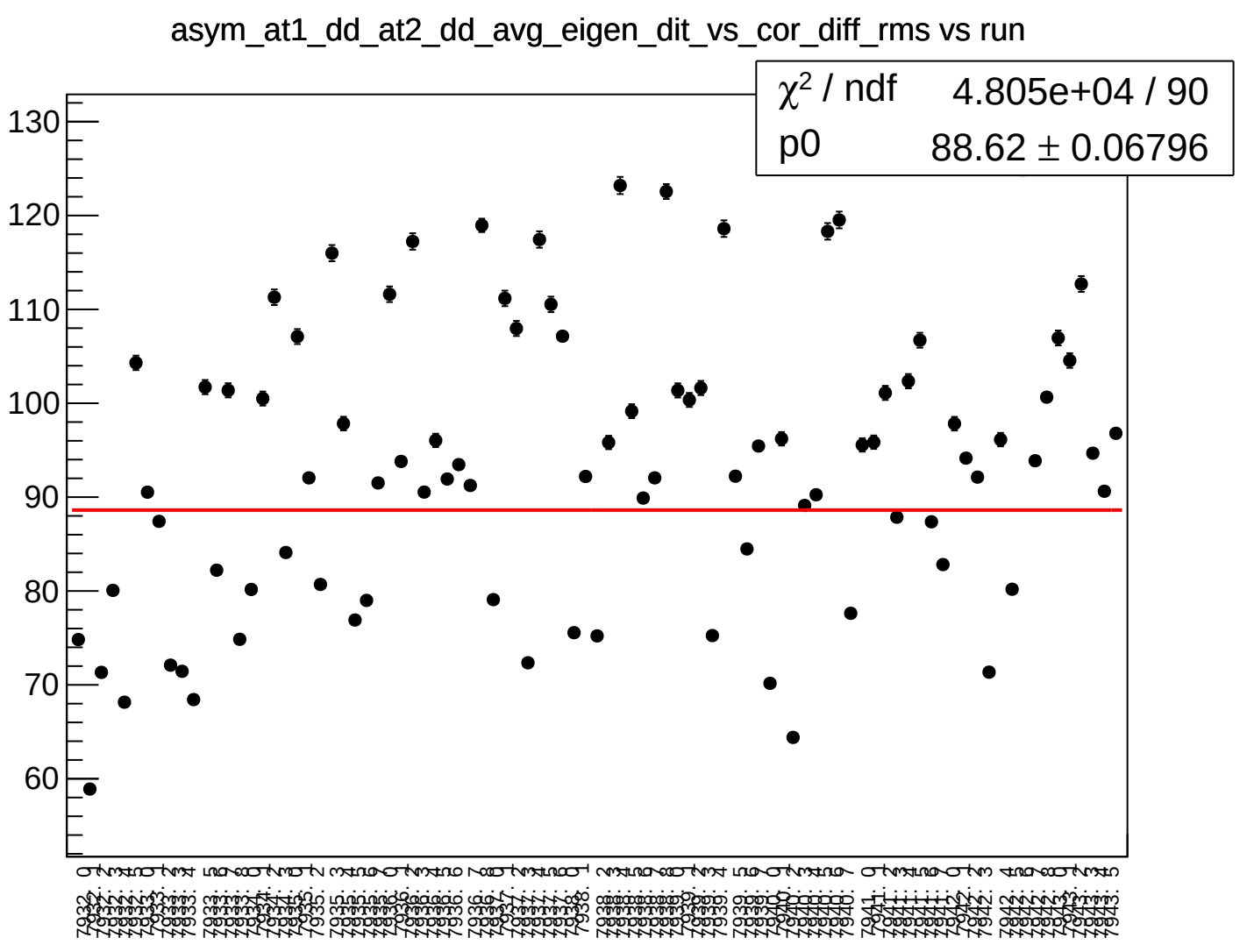

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09611
pull
Entries 91
Mean 28.35
Std Dev 37.25
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076

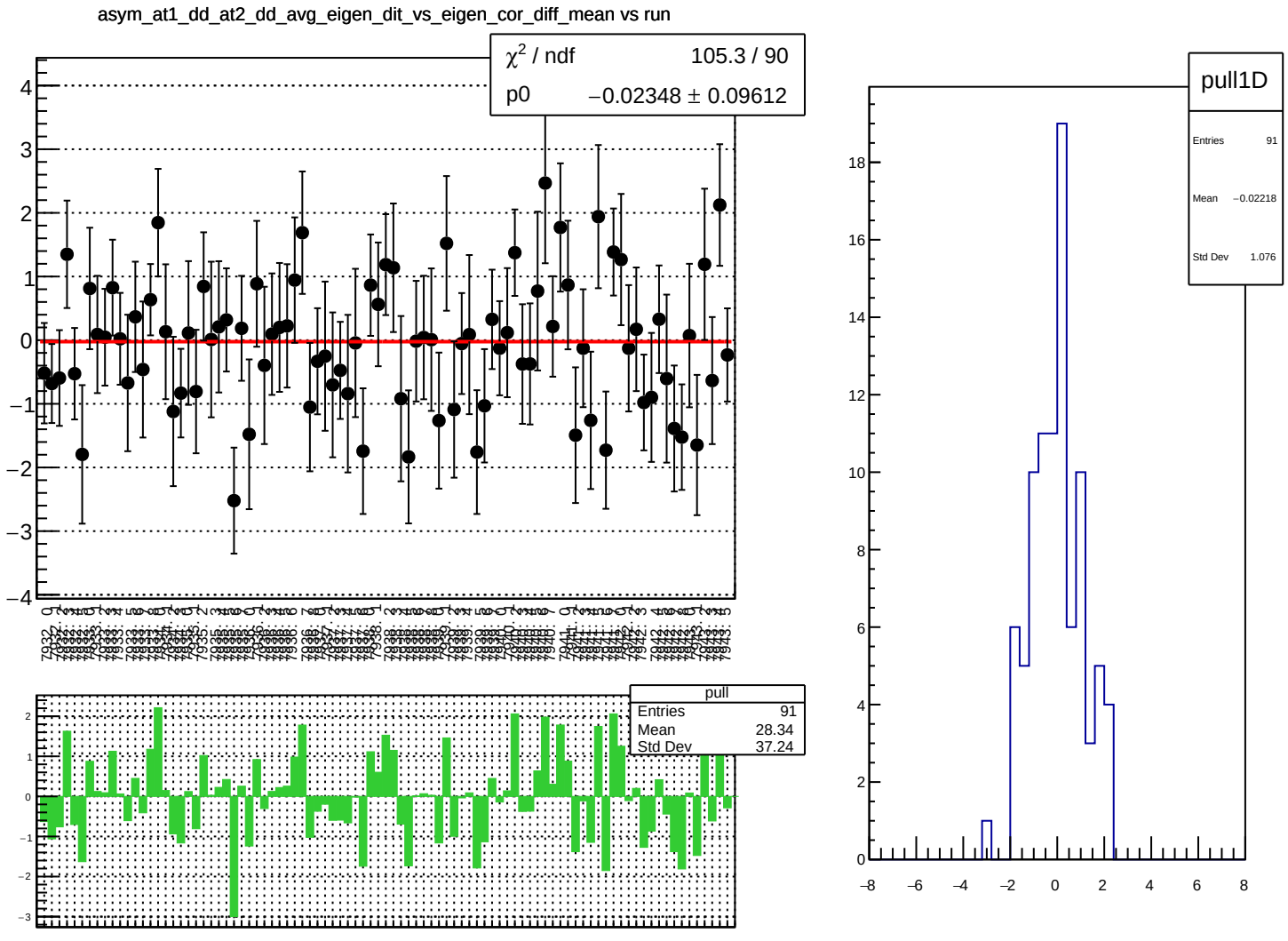

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.805e+04 / 90
p0 88.61 ± 0.06796
130
120
110
100
90
80
70
60

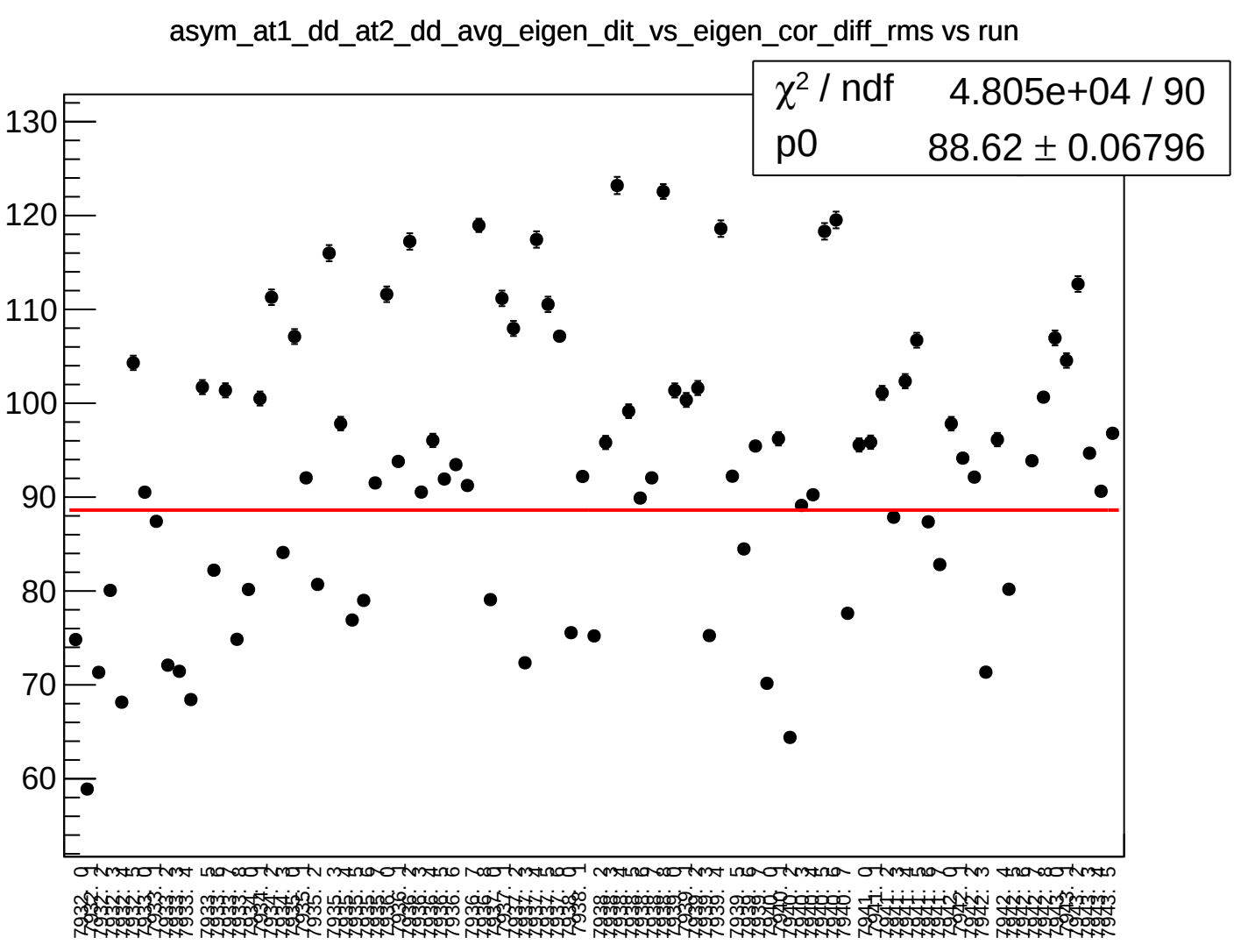

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.8 / 90
p0 −4.831e−06 ± 1.401e−05
pull
Entries 91
Mean −295.4
Std Dev 0
pull1D
Entries 91
Mean −0.003833
Std Dev 1.143

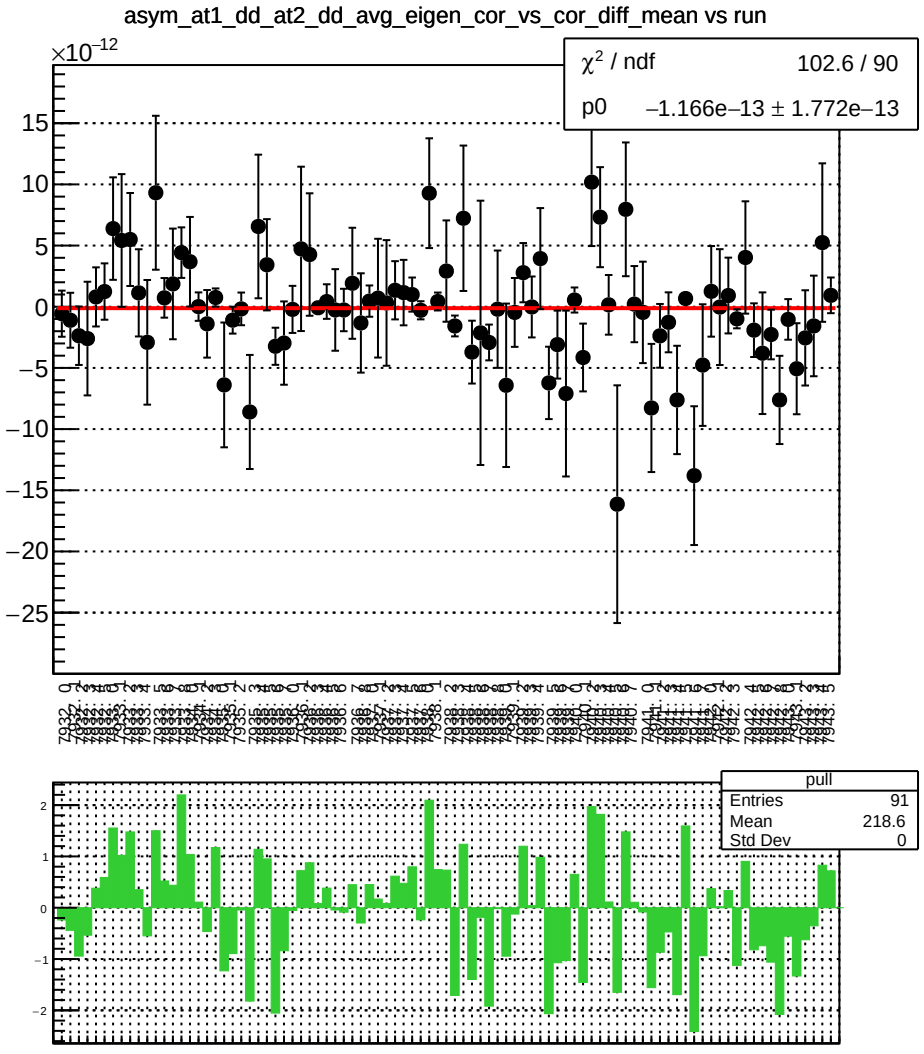

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3039 / 90
p0 0.01309 ± 9.907e−06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

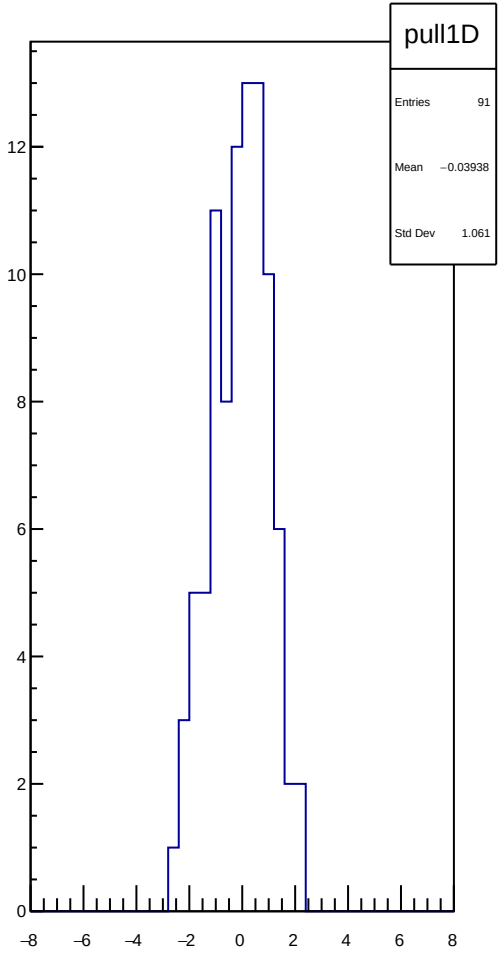

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09612
pull
Entries 91
Mean 28.34
Std Dev 37.24
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076

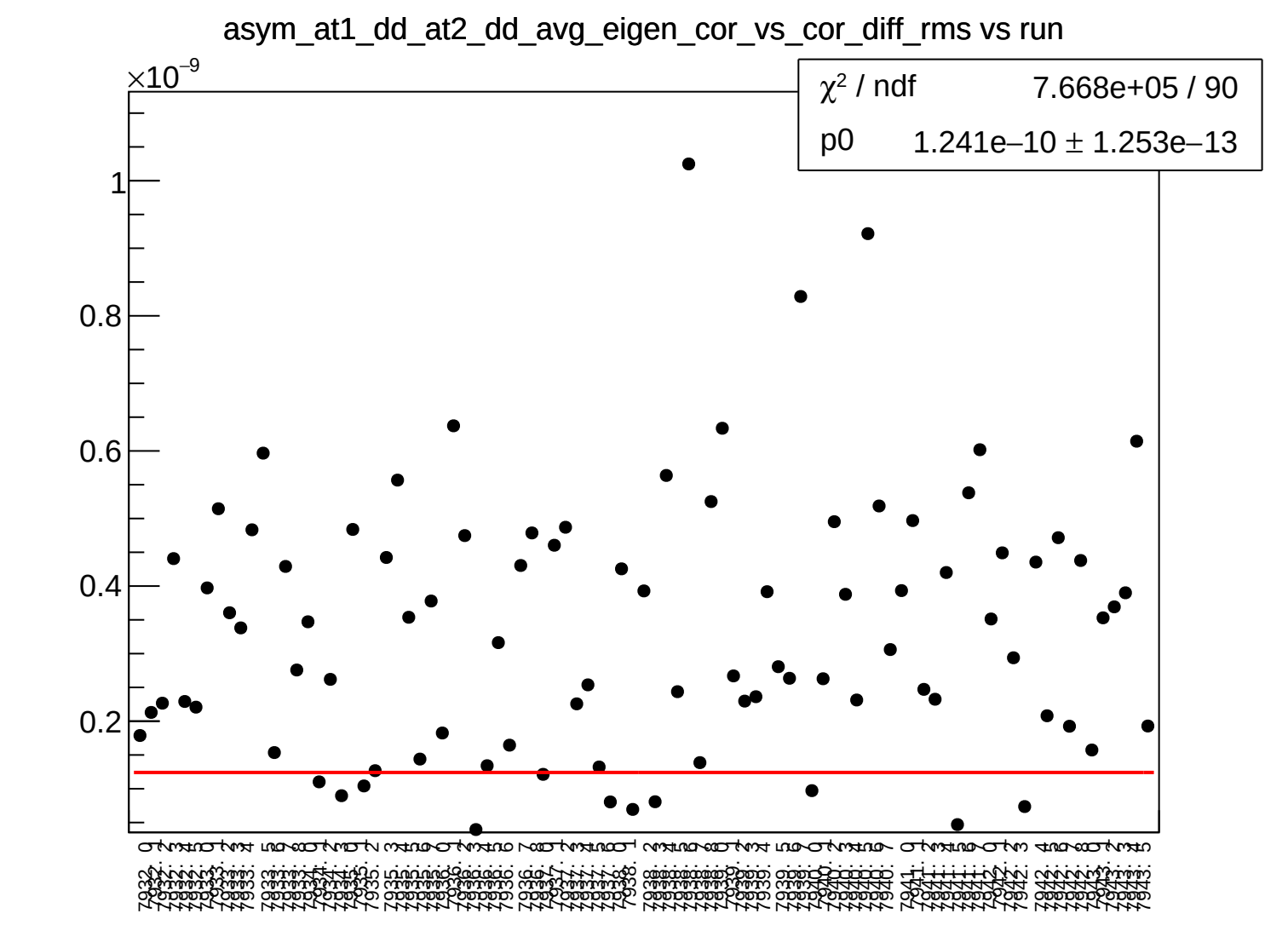

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.805e+04 / 90
p0 88.62 ± 0.06796
130
120
110
100
90
80
70
60

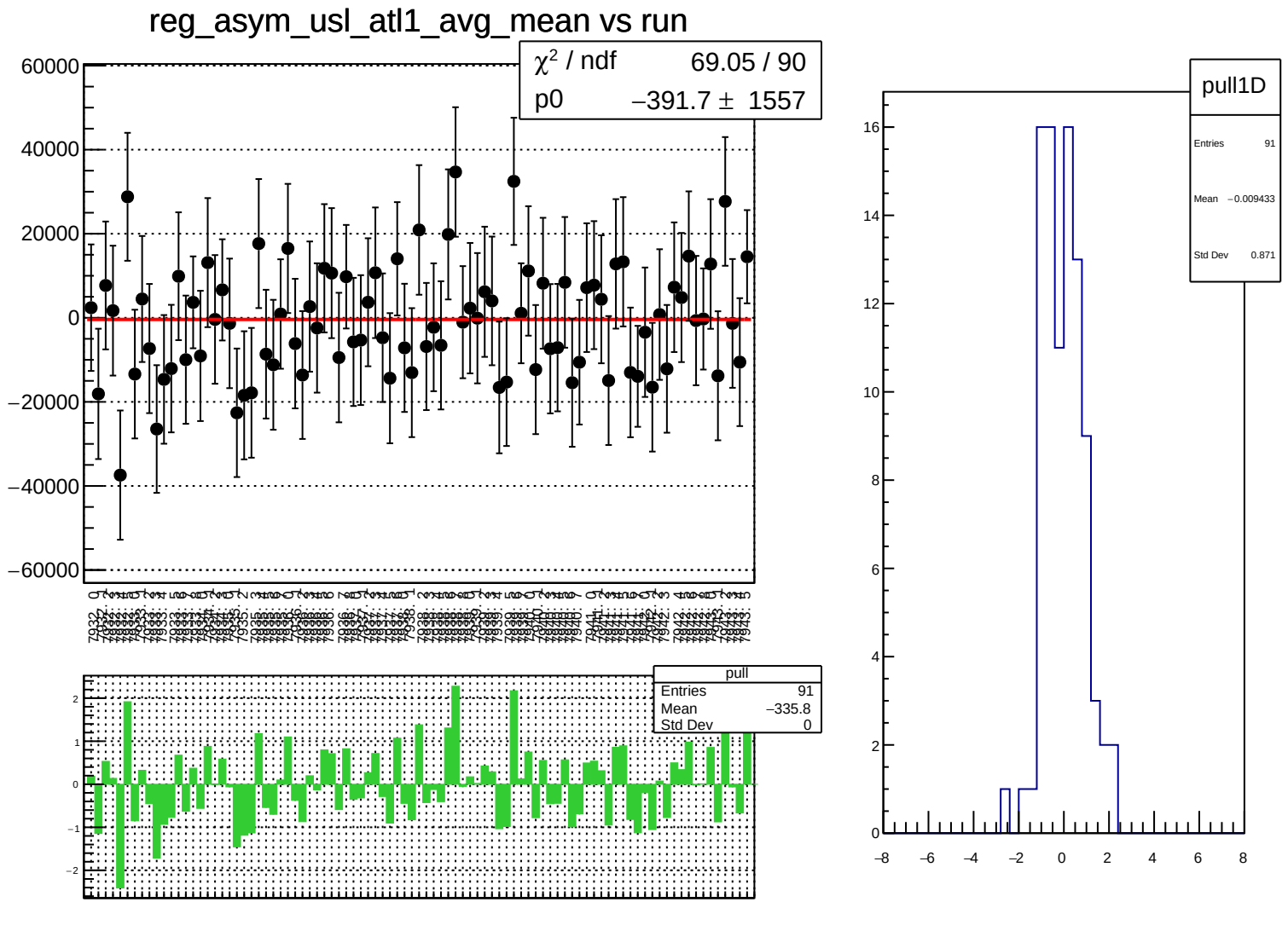

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 90
p0 −0.02348 ± 0.09612
pull
Entries 91
Mean 28.34
Std Dev 37.24
pull1D
Entries 91
Mean −0.02218
Std Dev 1.076

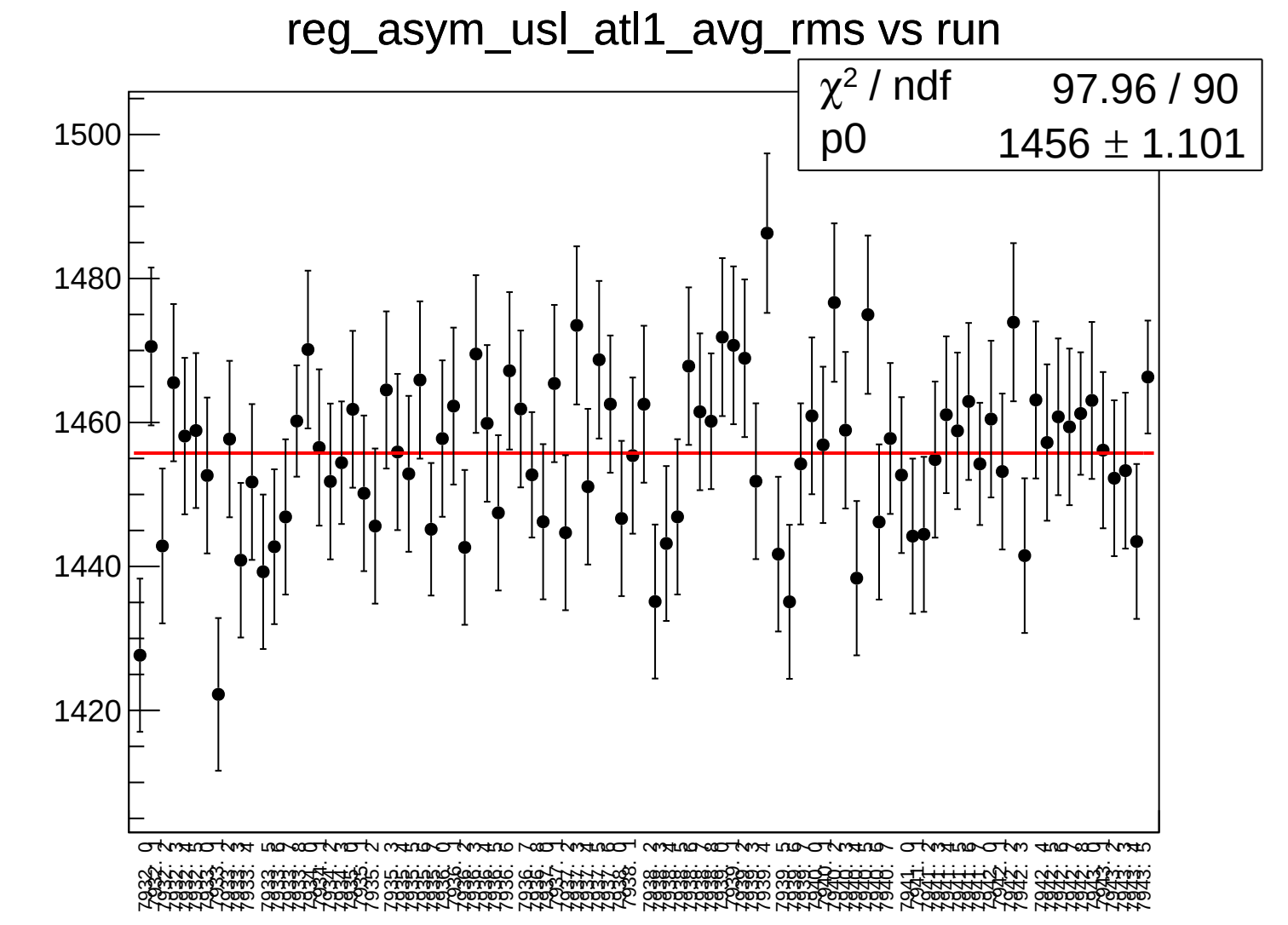

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.805e+04 / 90
p0 88.62 ± 0.06796
130
120
110
100
90
80
70
60

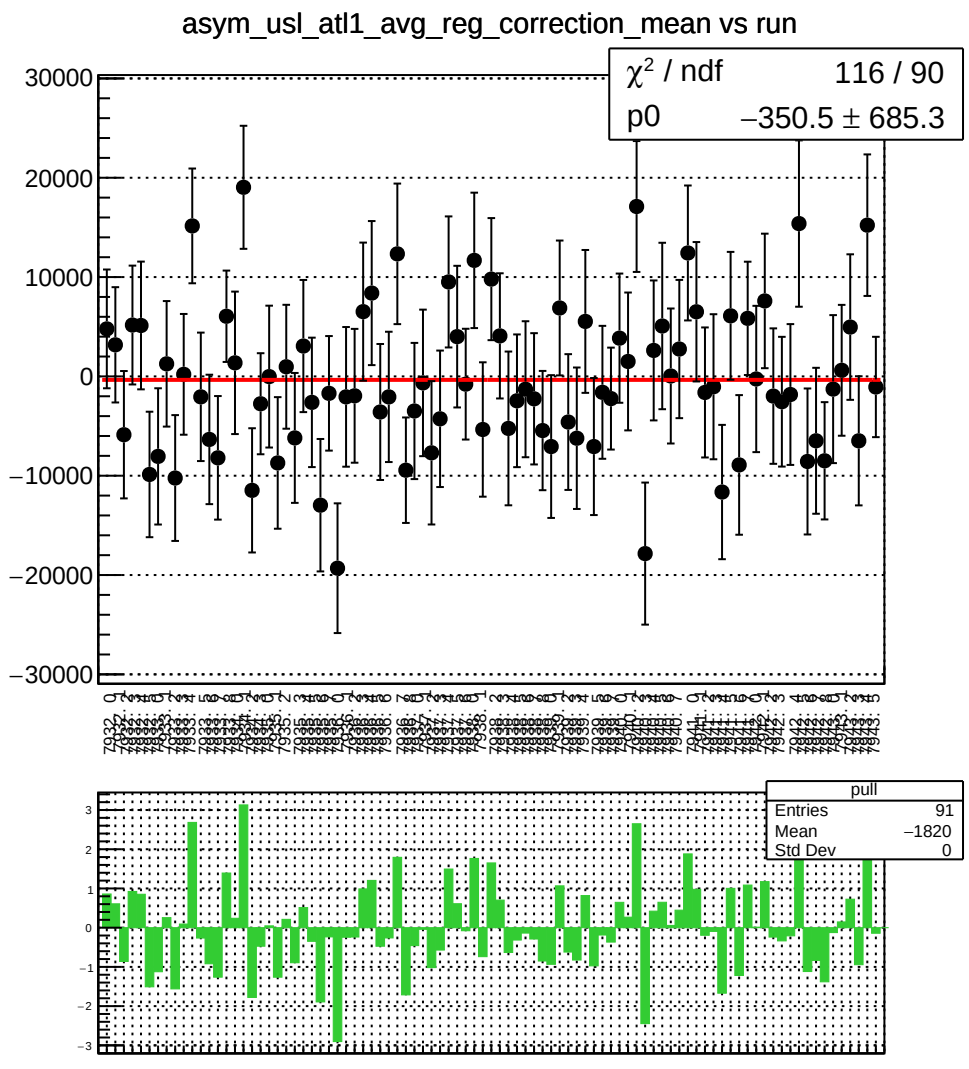

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.6 / 90
p0 −1.166e−13 ± 1.772e−13
pull
Entries 91
Mean 218.6
Std Dev 0

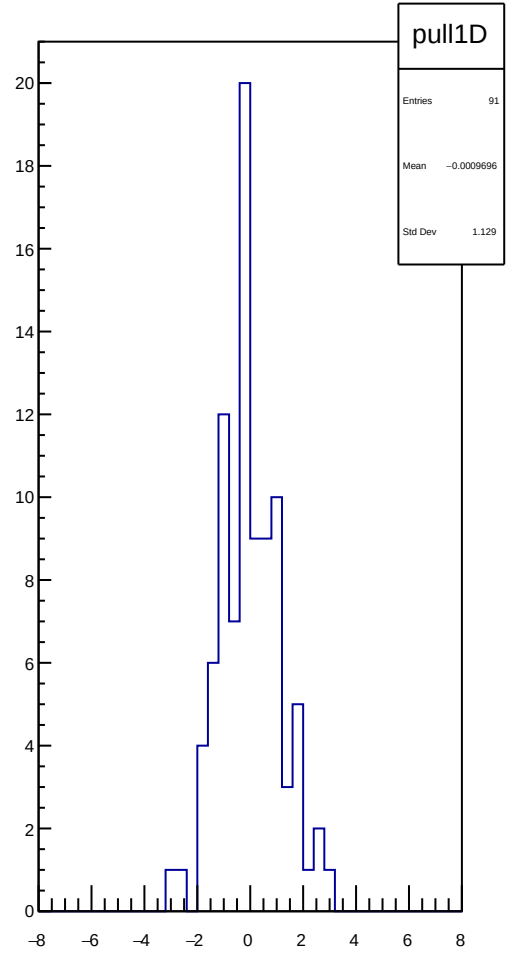

pull1D
Entries 91
Mean −0.03938
Std Dev 1.061

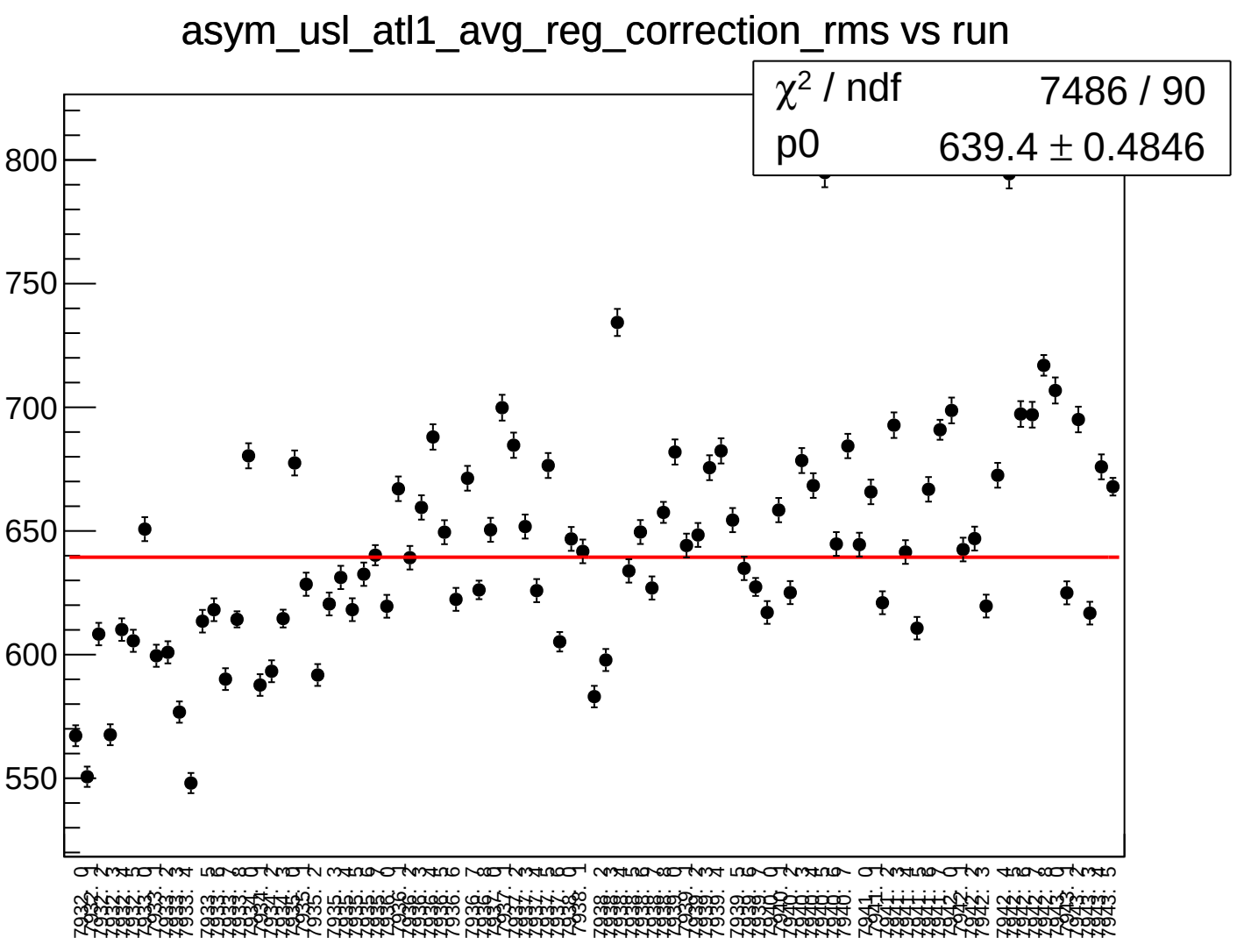

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.668e+05 / 90
p0 1.241e−10 ± 1.253e−13
1
0.8
0.6
0.4
0.2

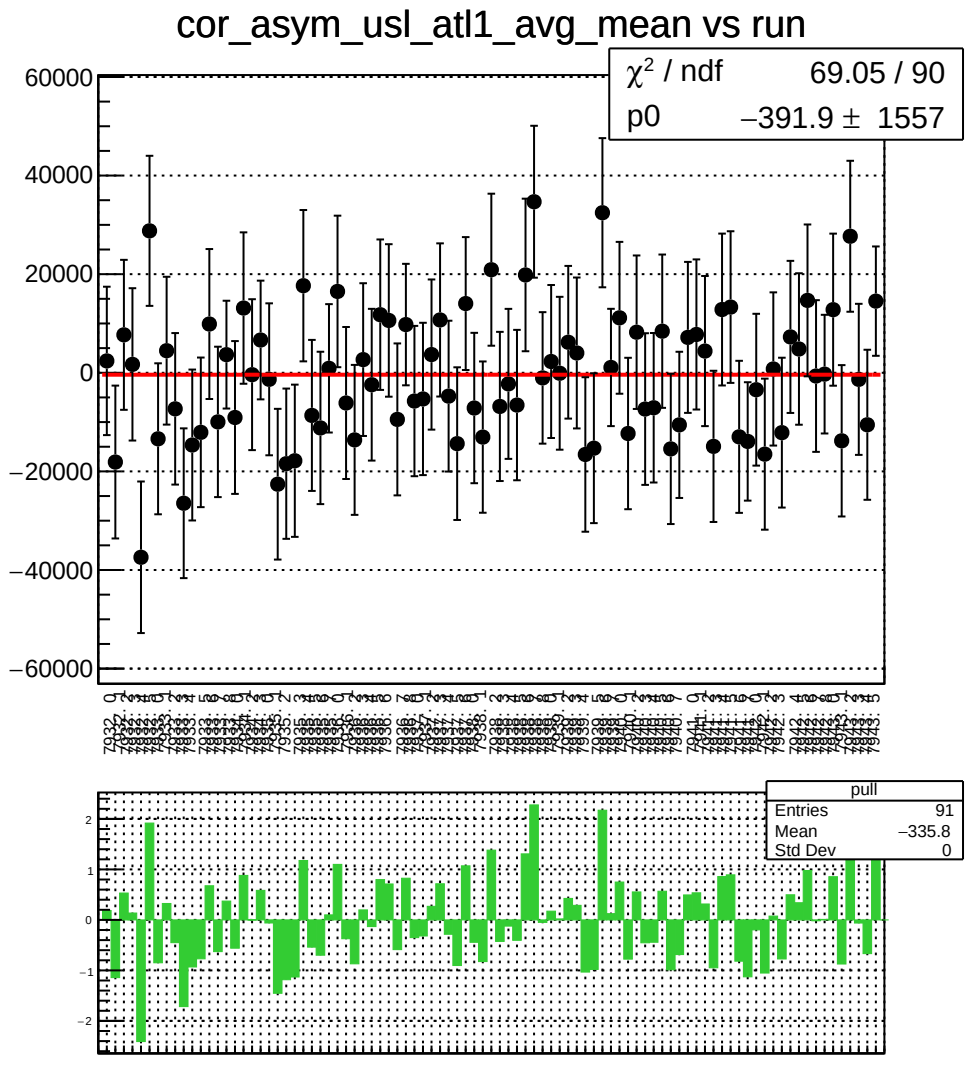

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.05 / 90
p0 −391.7 ± 1557
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −335.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.009433
Std Dev 0.871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

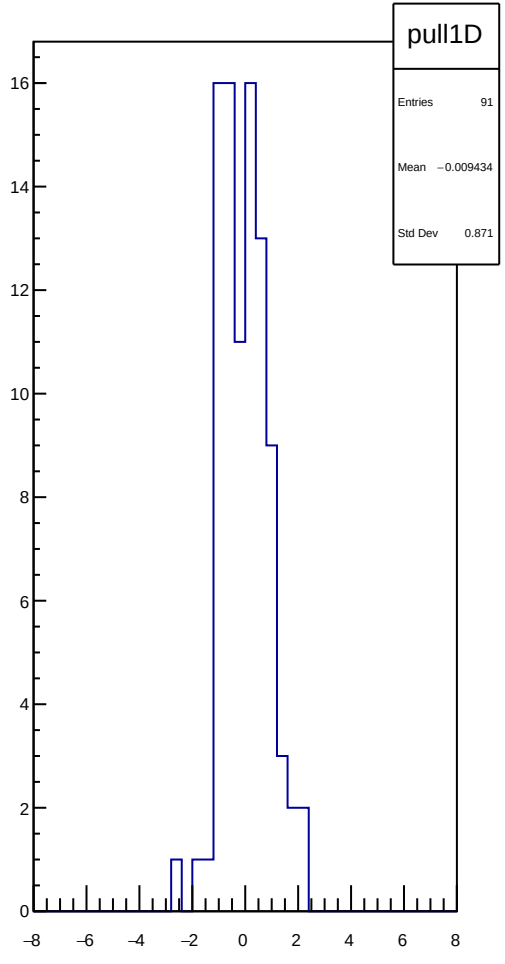

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 97.96 / 90
p0 1456 ± 1.101
1500
1480
1460
1440
1420

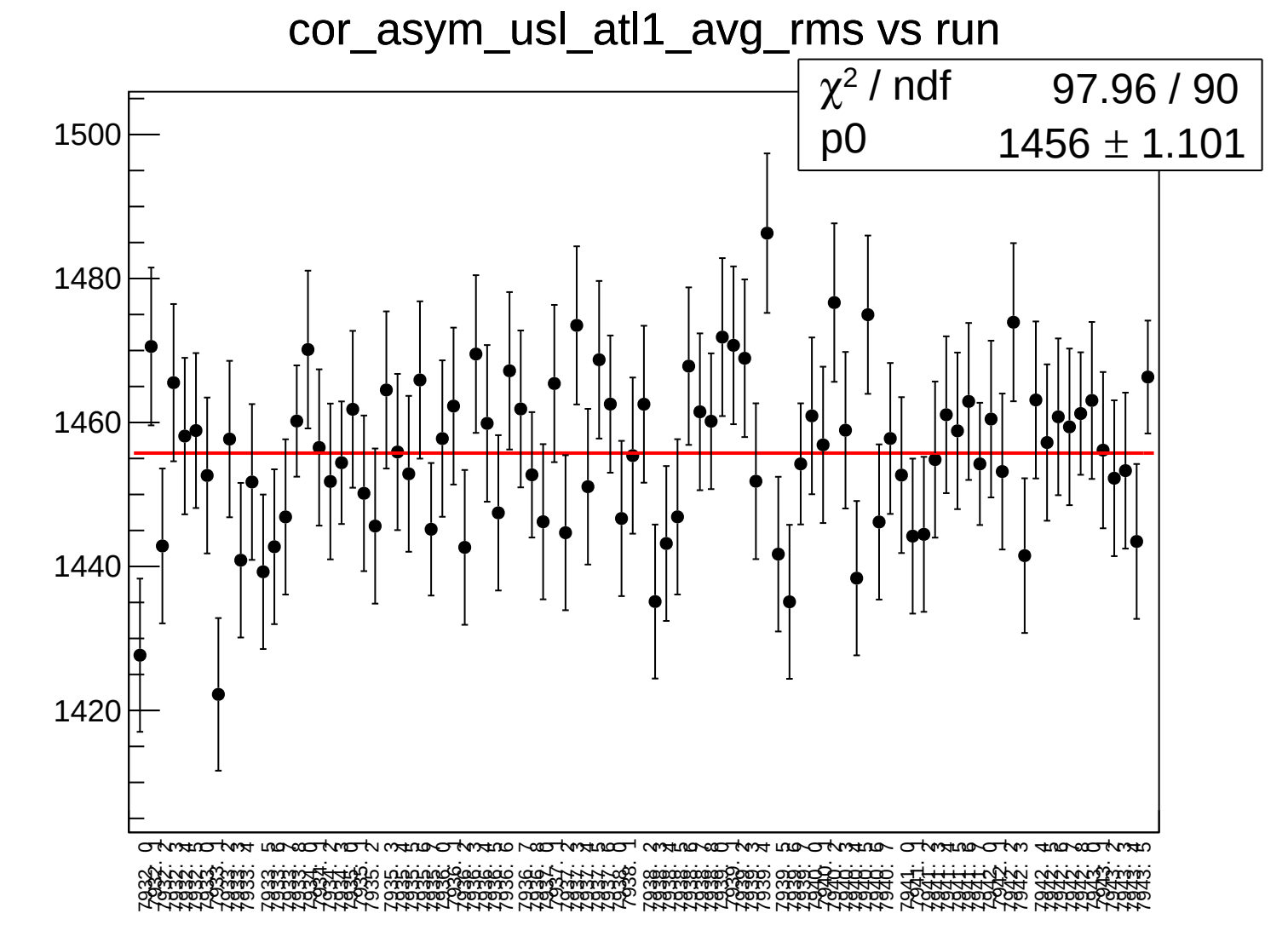

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 116 / 90
p0 −350.5 ± 685.3
pull
Entries 91
Mean −1820
Std Dev 0

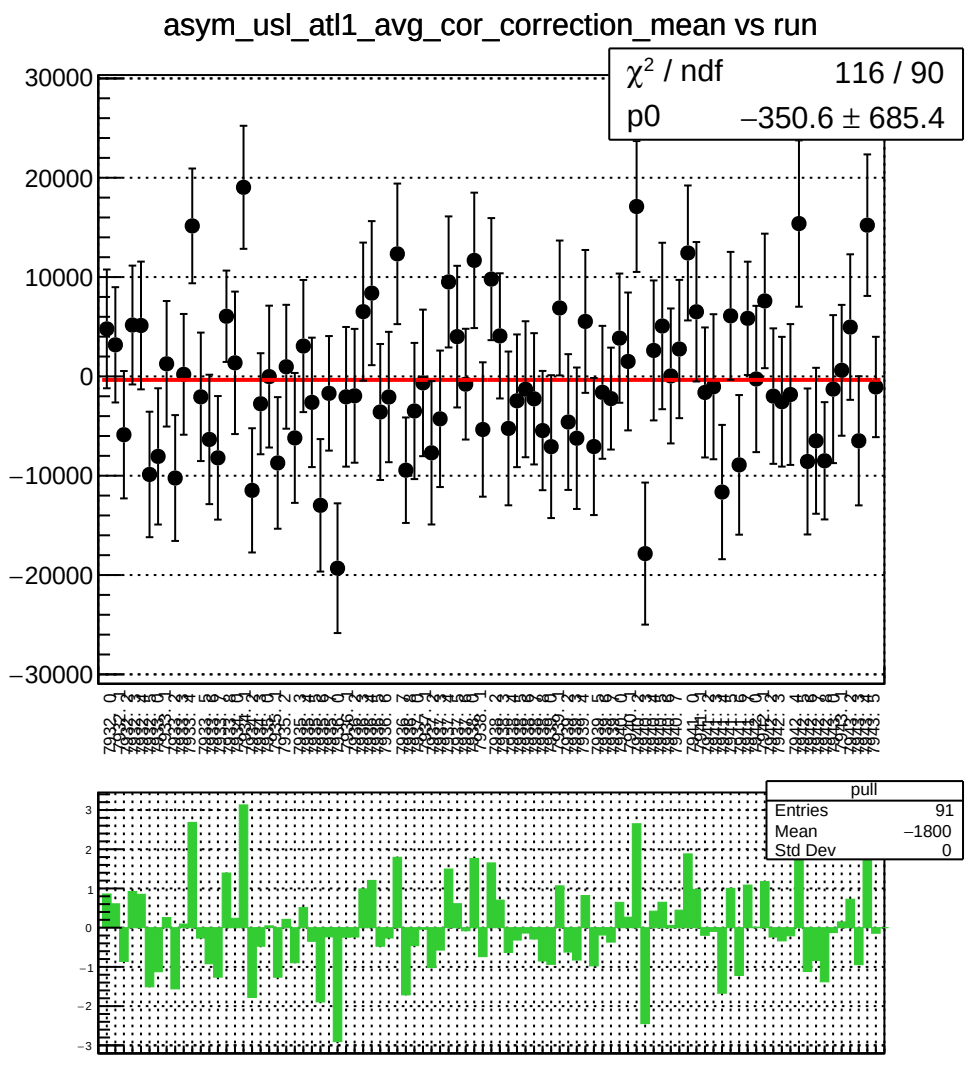

pull1D
Entries 91
Mean −0.0009696
Std Dev 1.129

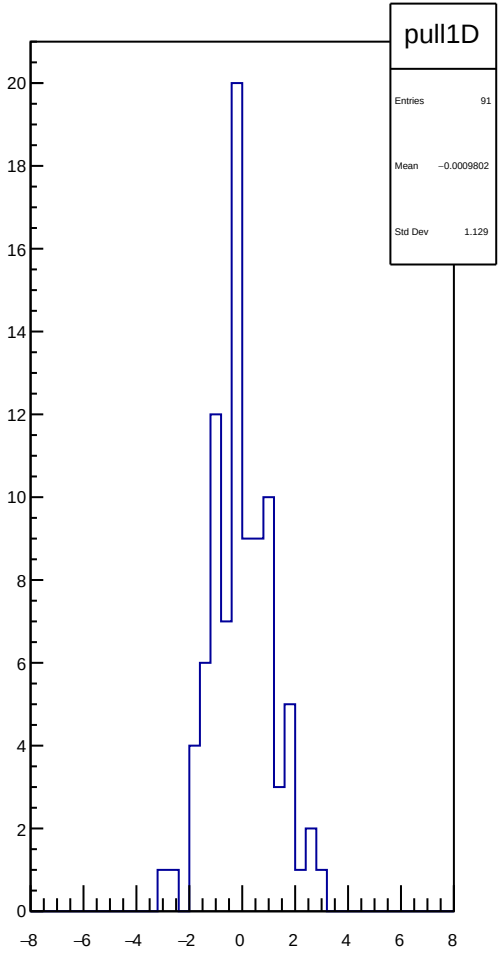

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 7486 / 90
p0 639.4 ± 0.4846
800
750
700
650
600
550

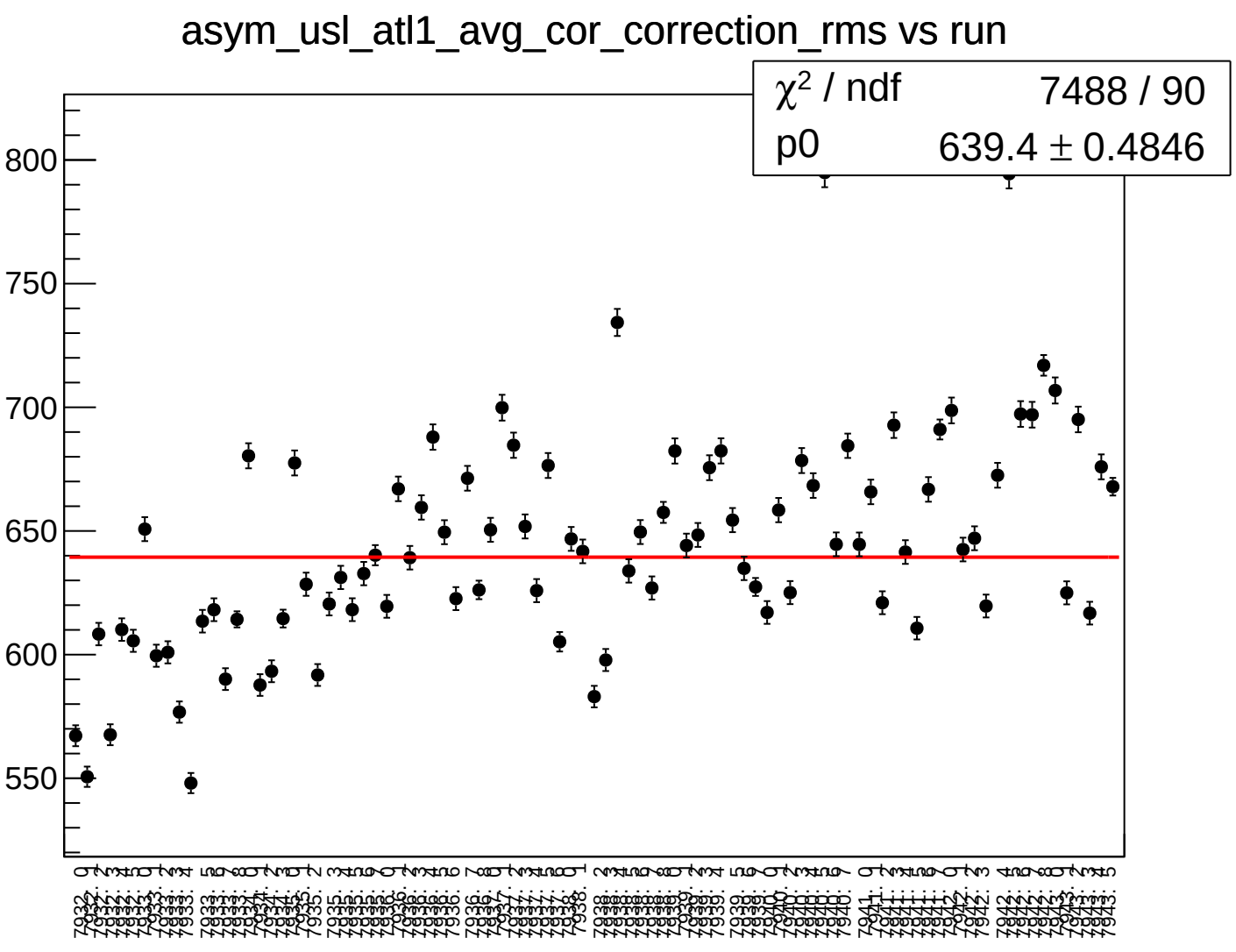

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.05 / 90
p0 −391.9 ± 1557
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −335.8
Std Dev 0
2
1
0
−1
−2

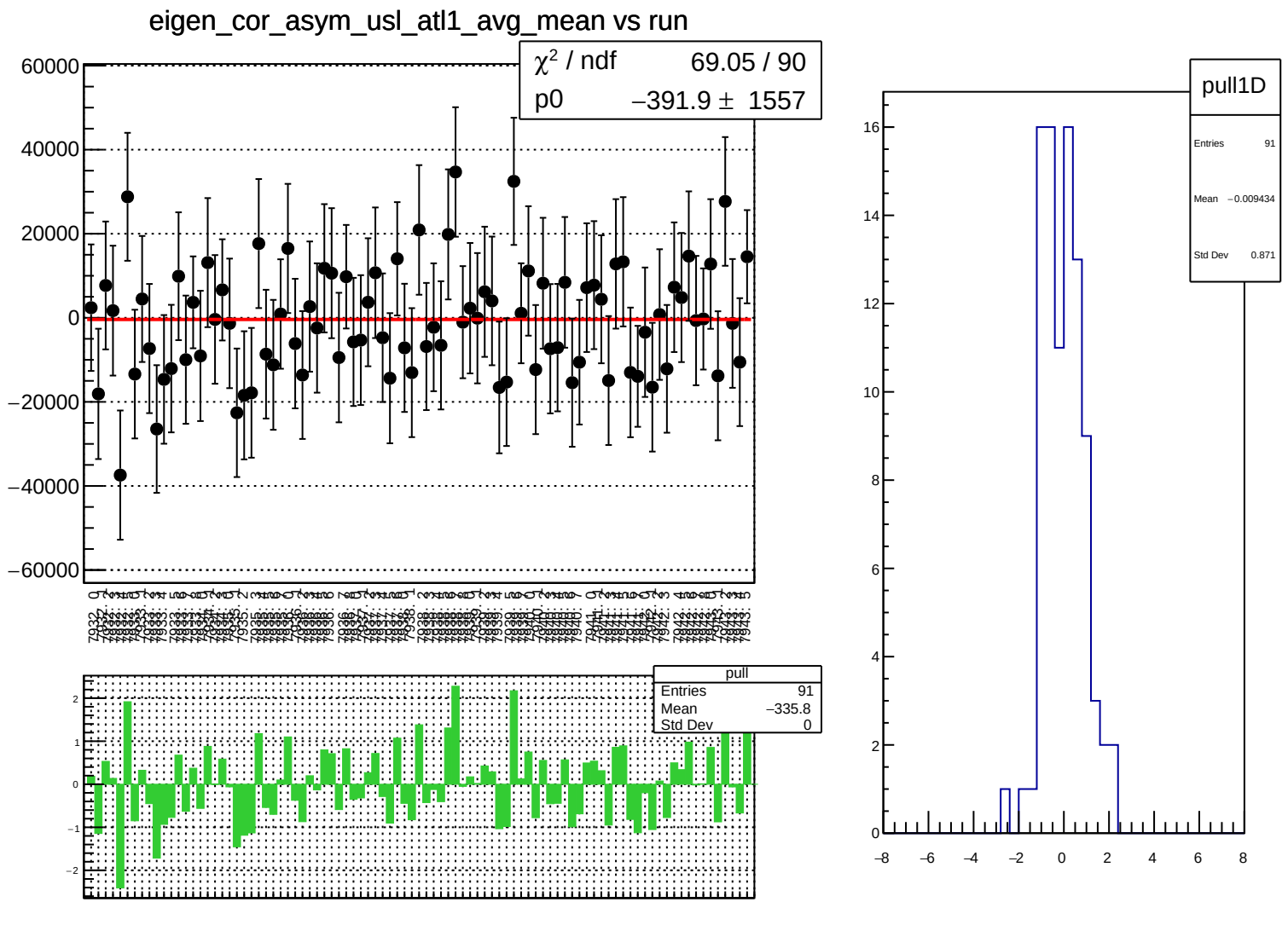

pull1D
Entries 91
Mean −0.009434
Std Dev 0.871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

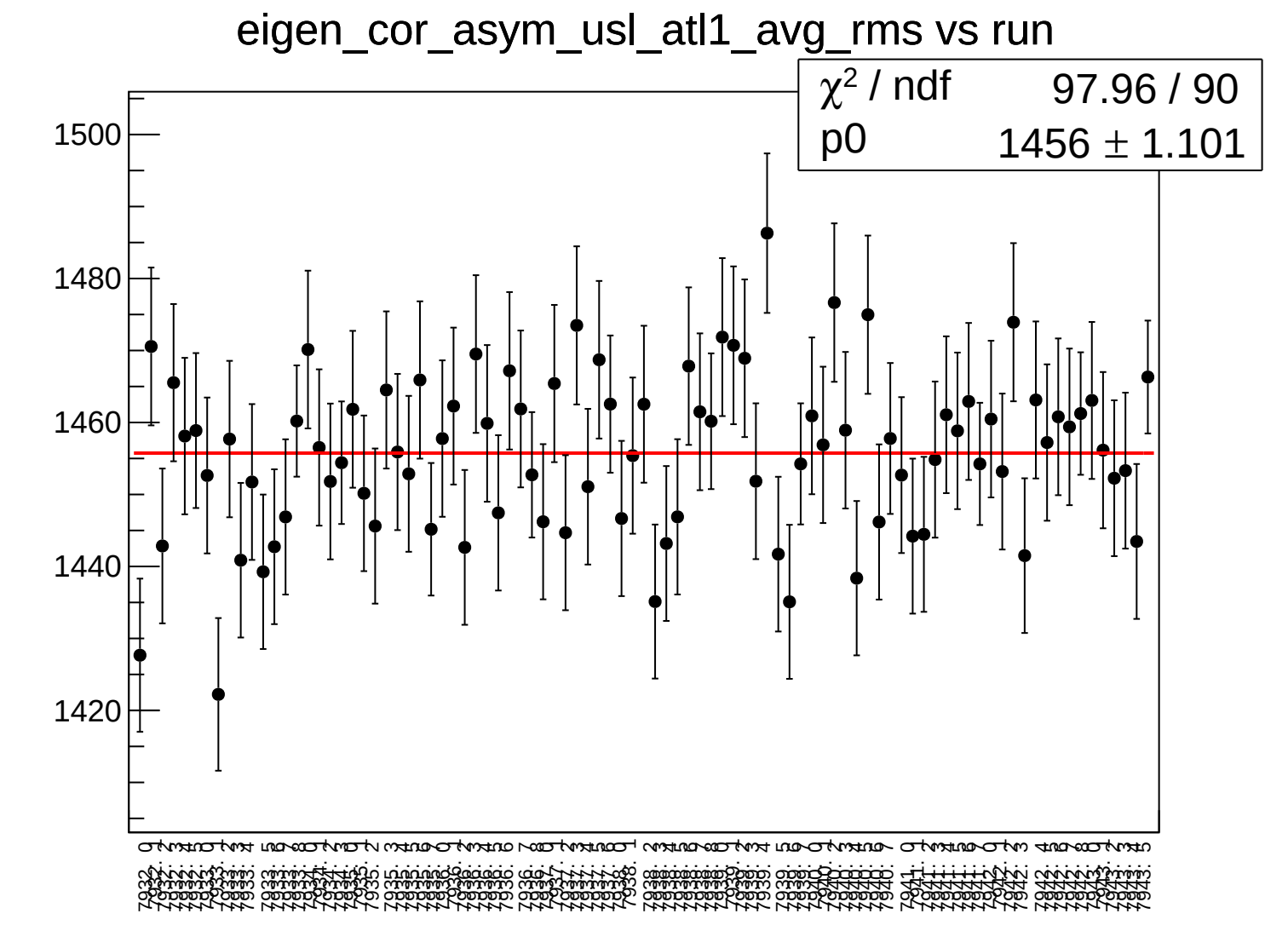

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 97.96 / 90
p0 1456 ± 1.101
1500
1480
1460
1440
1420

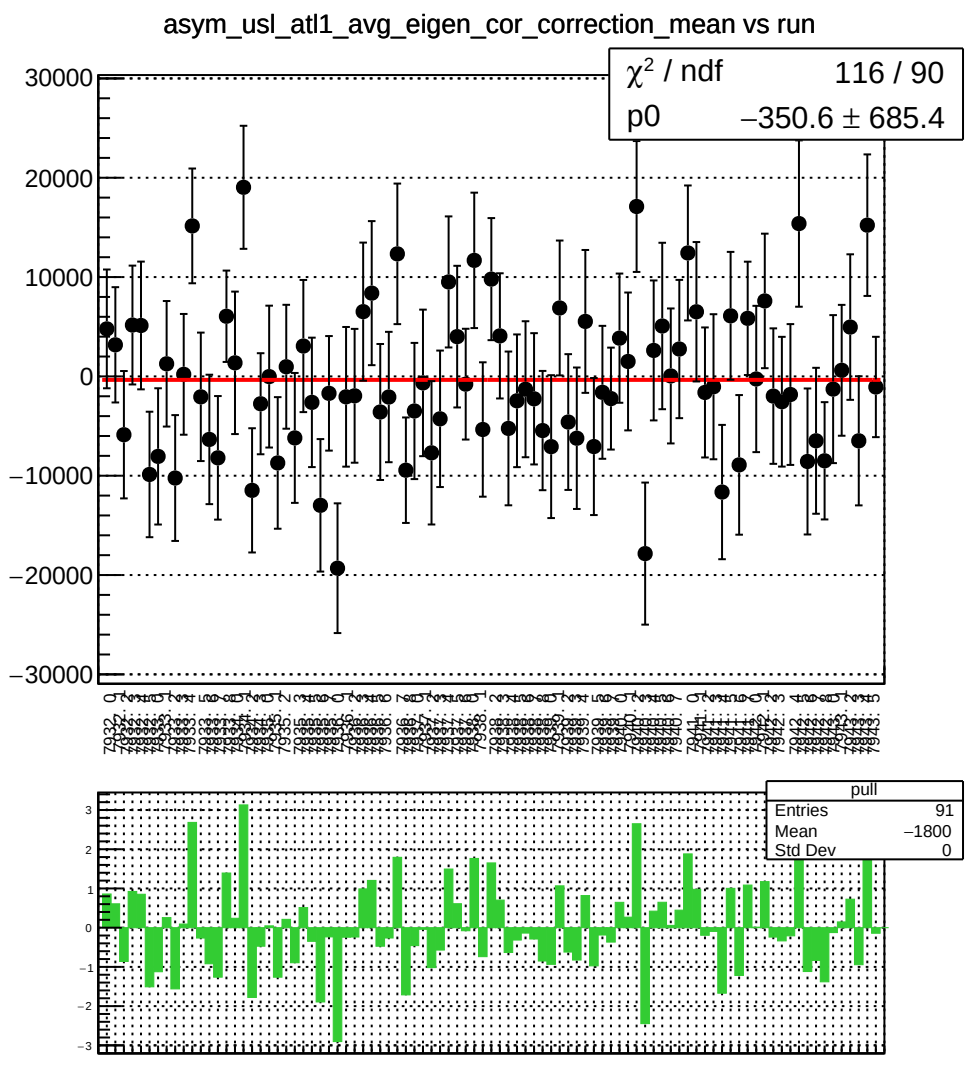

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 116 / 90
p0 −350.6 ± 685.4
pull
Entries 91
Mean −1800
Std Dev 0

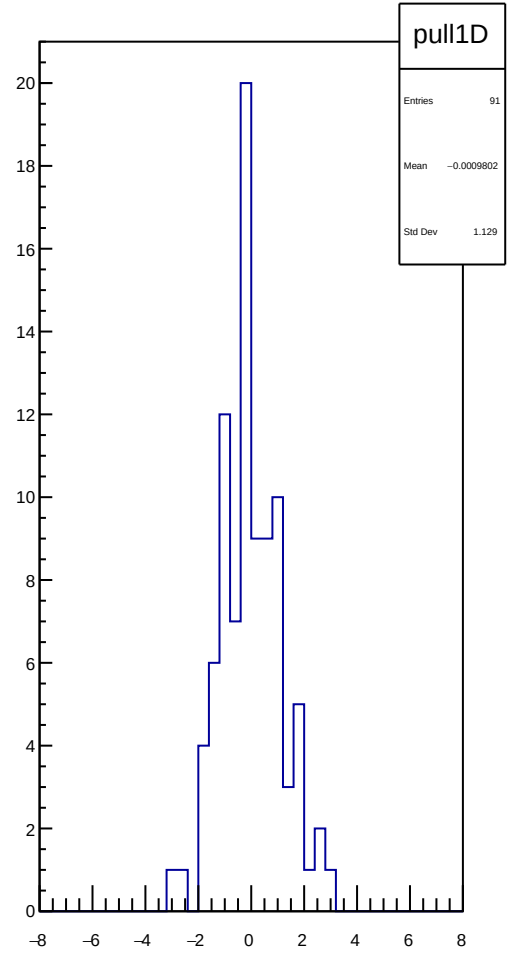

pull1D
Entries 91
Mean −0.0009802
Std Dev 1.129

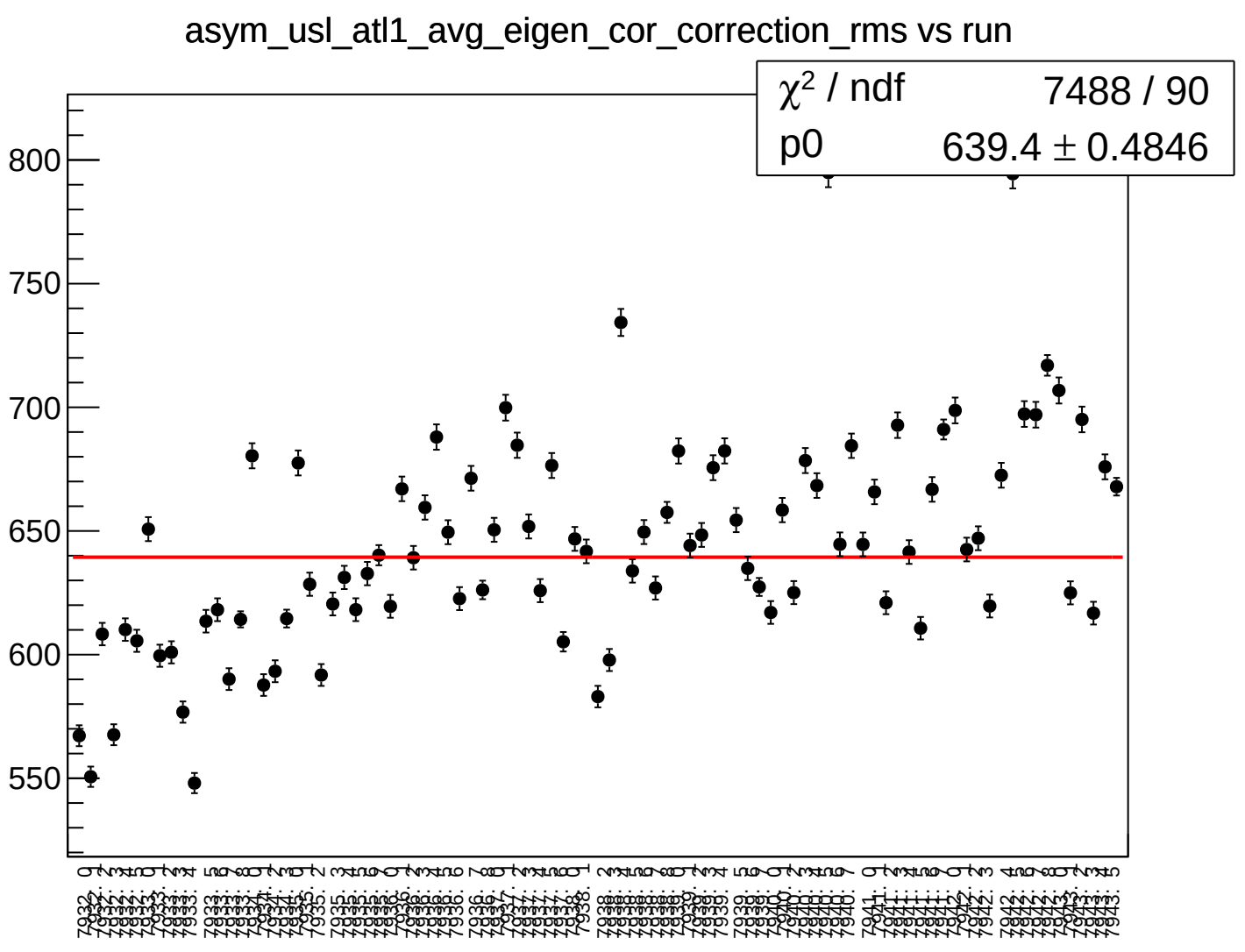

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 7488 / 90
p0 639.4 ± 0.4846
800
750
700
650
600
550

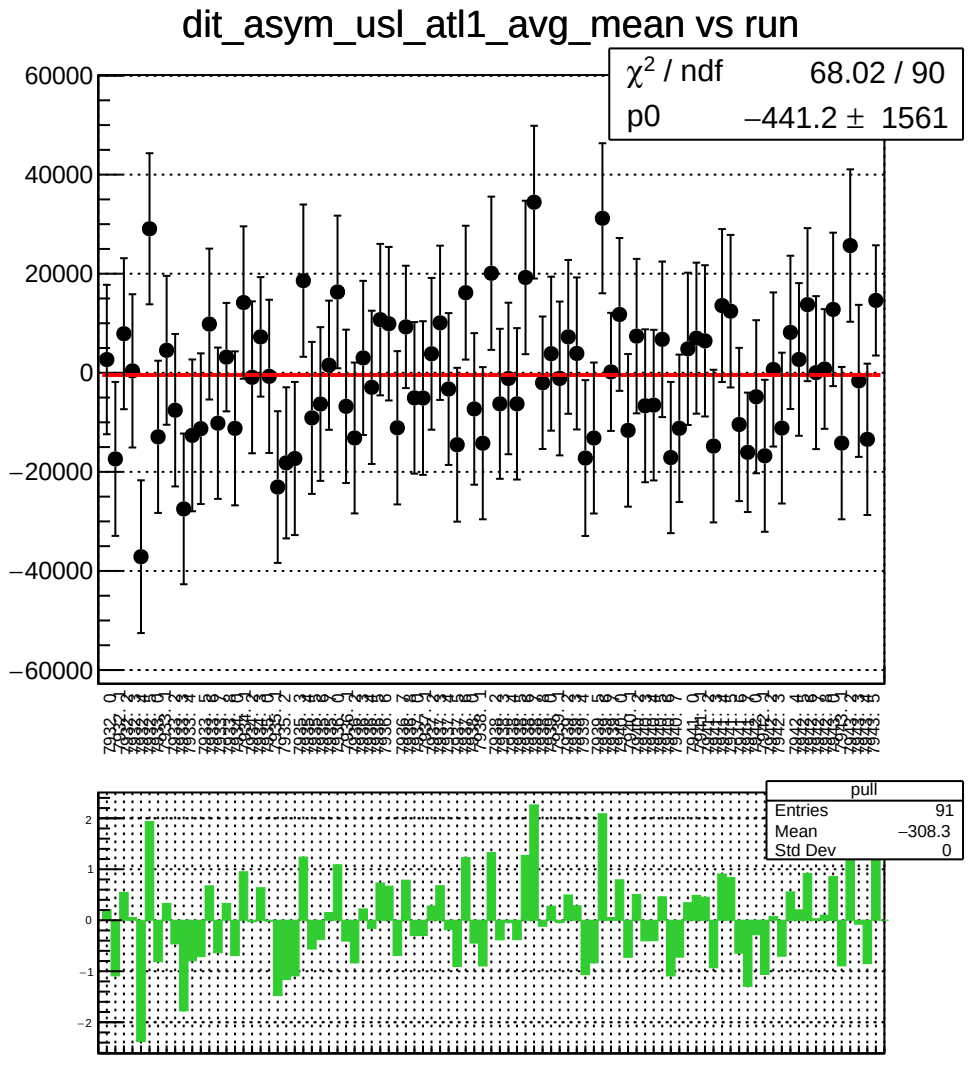

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.05 / 90
p0 −391.9 ± 1557
pull
Entries 91
Mean −335.8
Std Dev 0
pull1D
Entries 91
Mean −0.009434
Std Dev 0.871

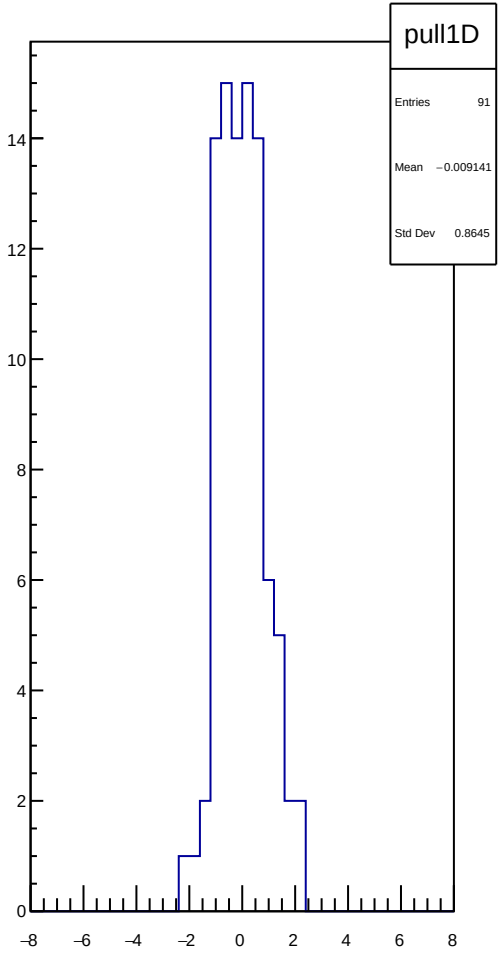

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 97.96 / 90
p0 1456 ± 1.101
1500
1480
1460
1440
1420

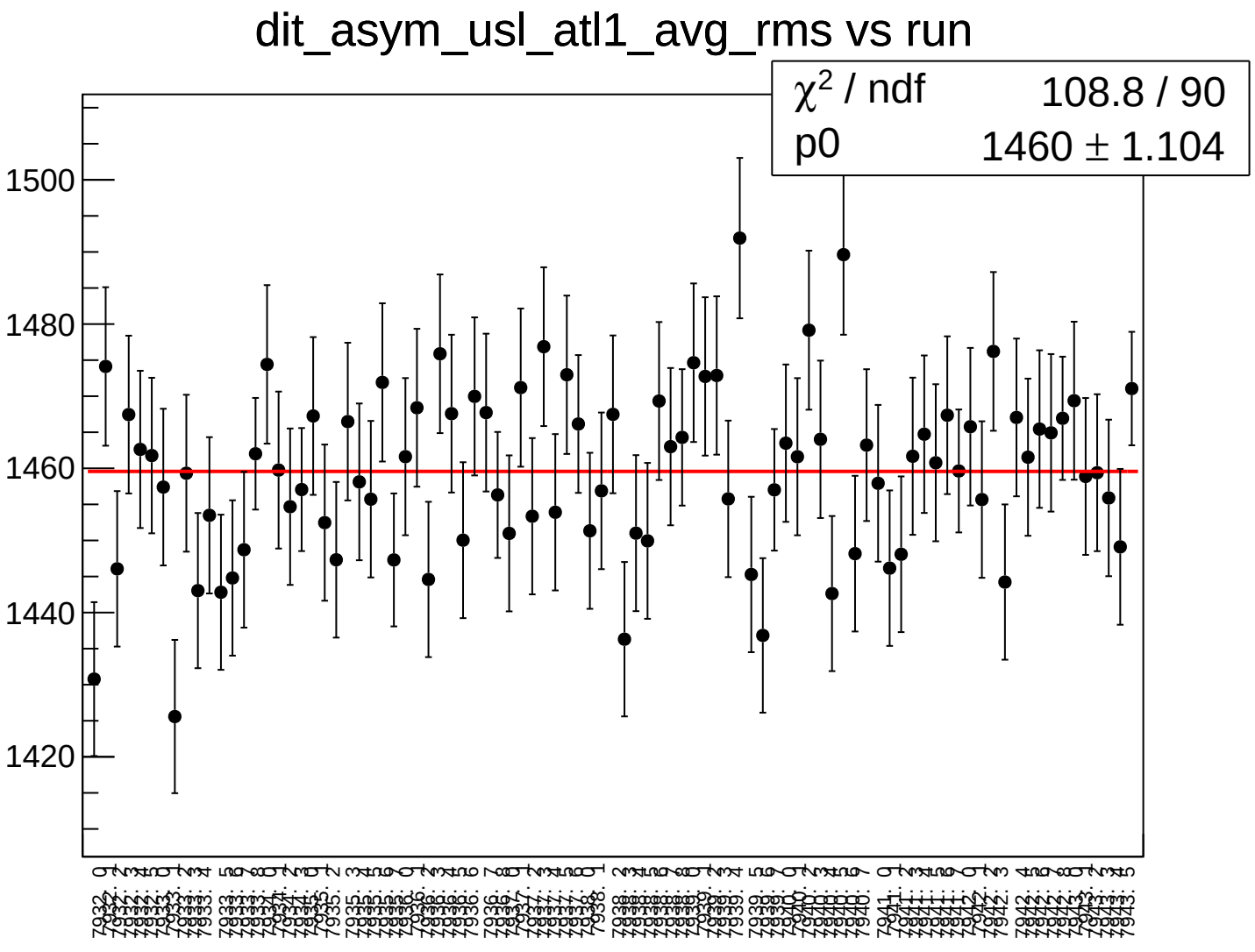

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 116 / 90
p0 −350.6 ± 685.4
pull
Entries 91
Mean −1800
Std Dev 0

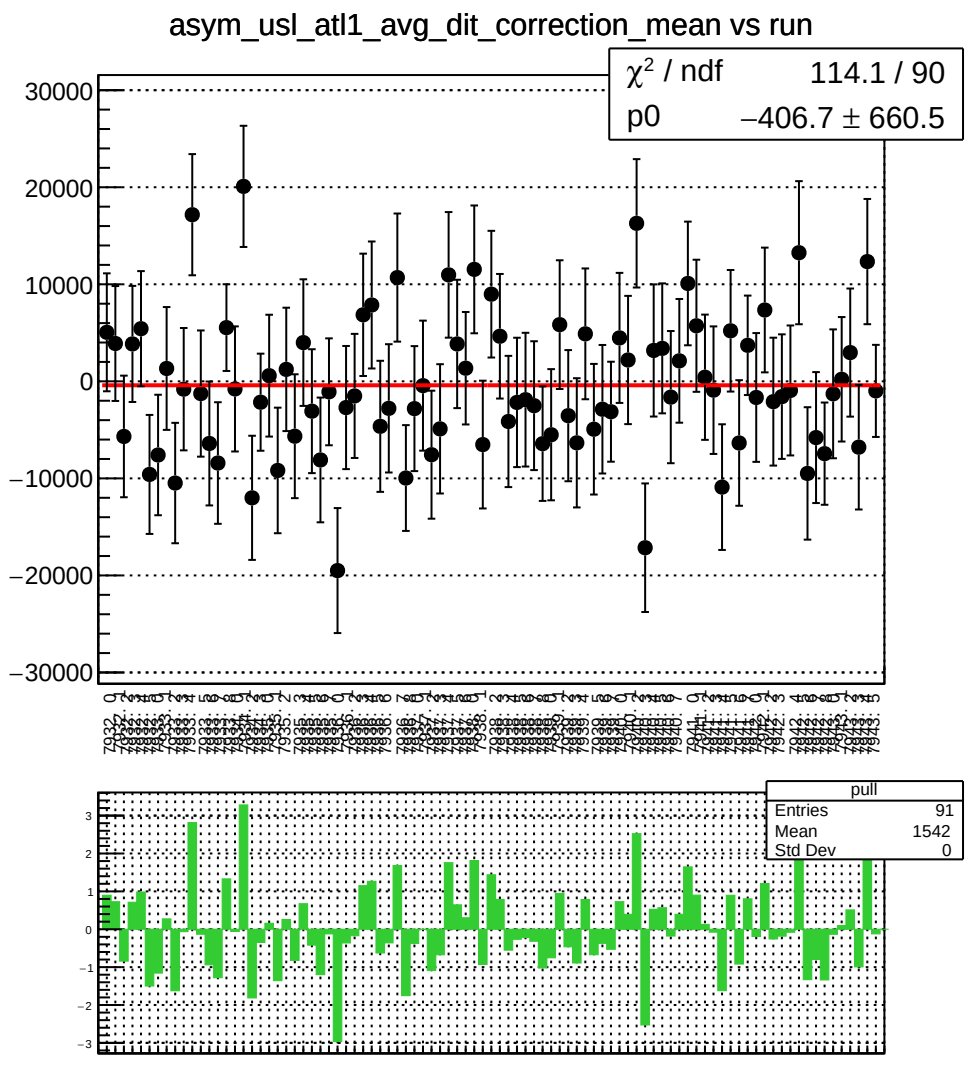

pull1D
Entries 91
Mean −0.0009802
Std Dev 1.129

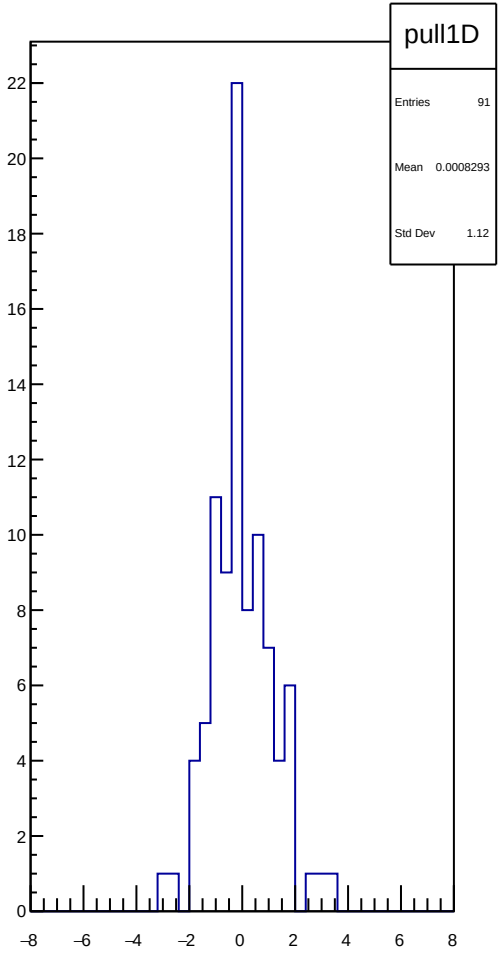

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7488 / 90
p0 639.4 ± 0.4846
800
750
700
650
600
550

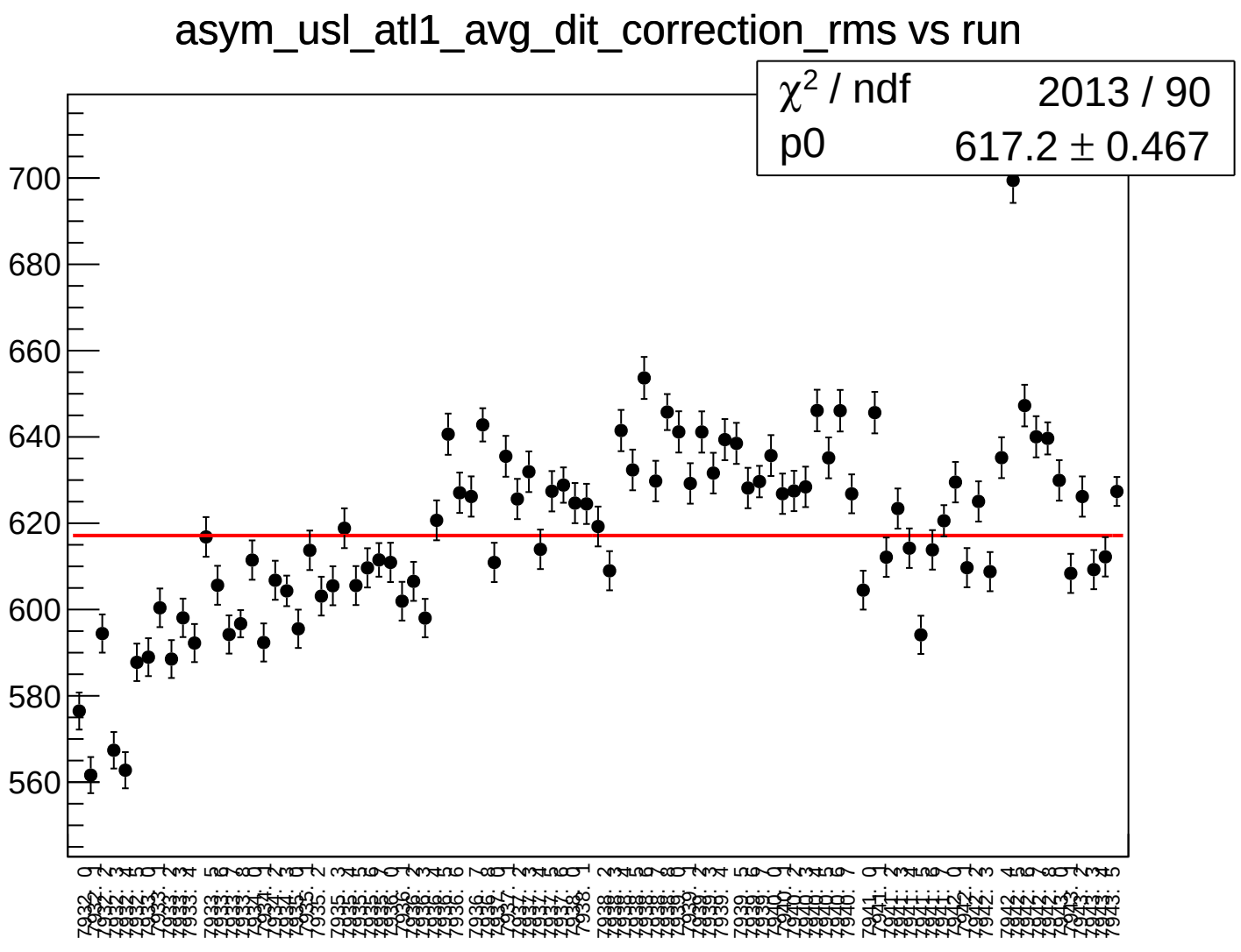

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 68.02 / 90
p0 −441.2 ± 1561
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −308.3
Std Dev 0
2
1
0
−1
−2

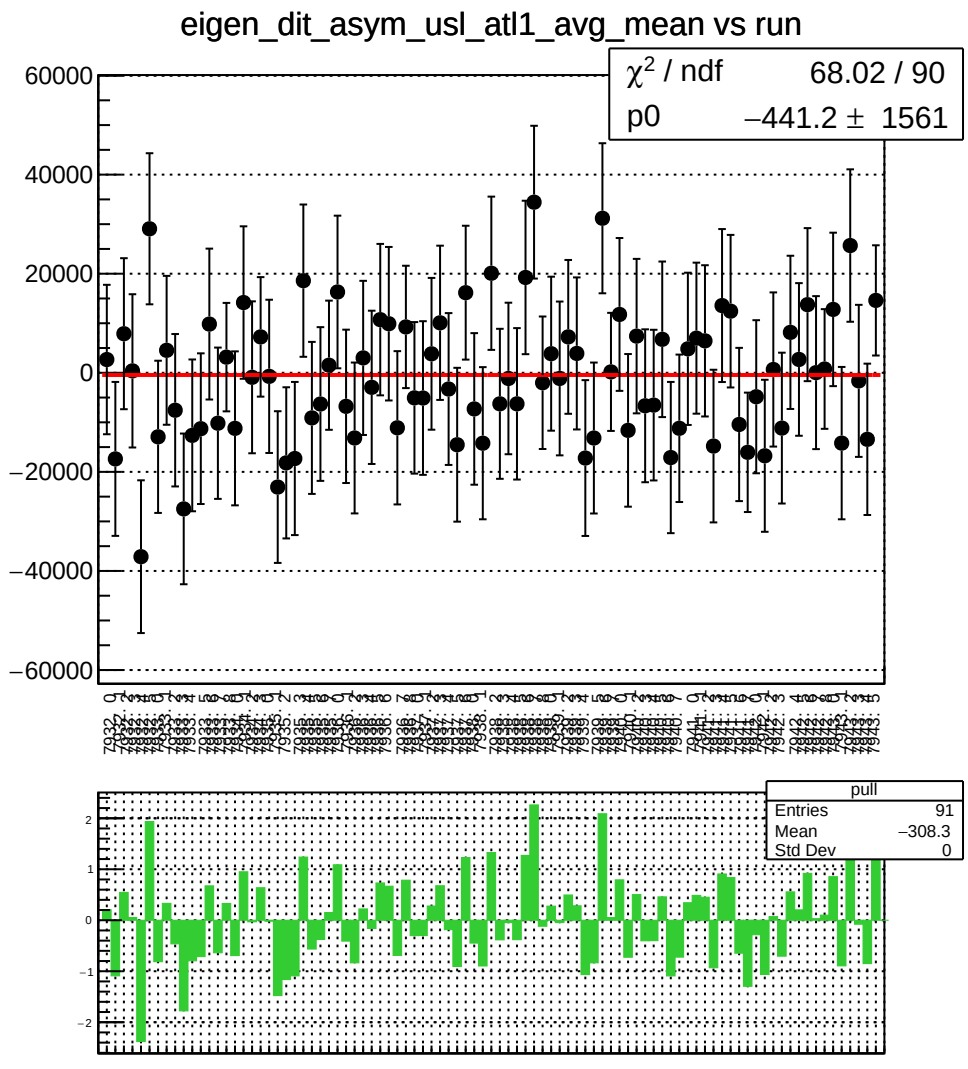

pull1D
Entries 91
Mean −0.009141
Std Dev 0.8645
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

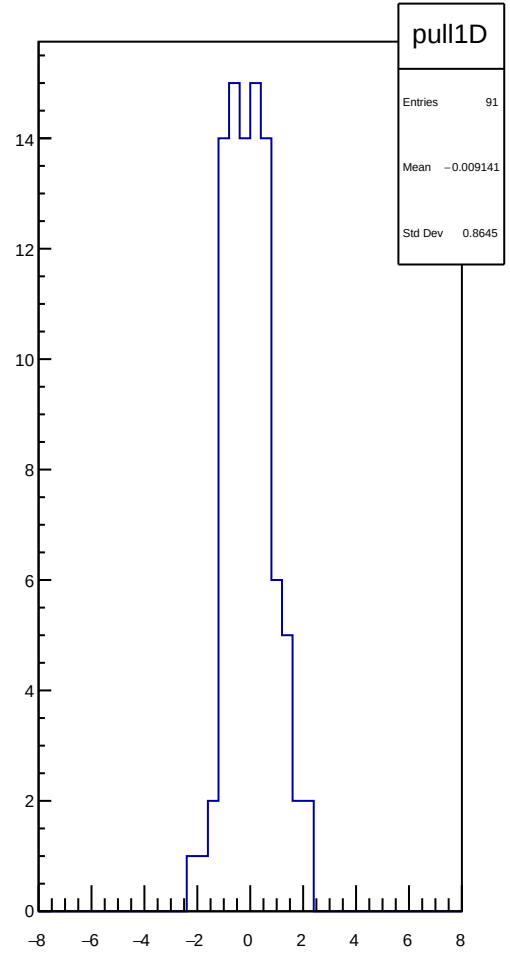

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 108.8 / 90
p0 1460 ± 1.104
1500
1480
1460
1440
1420

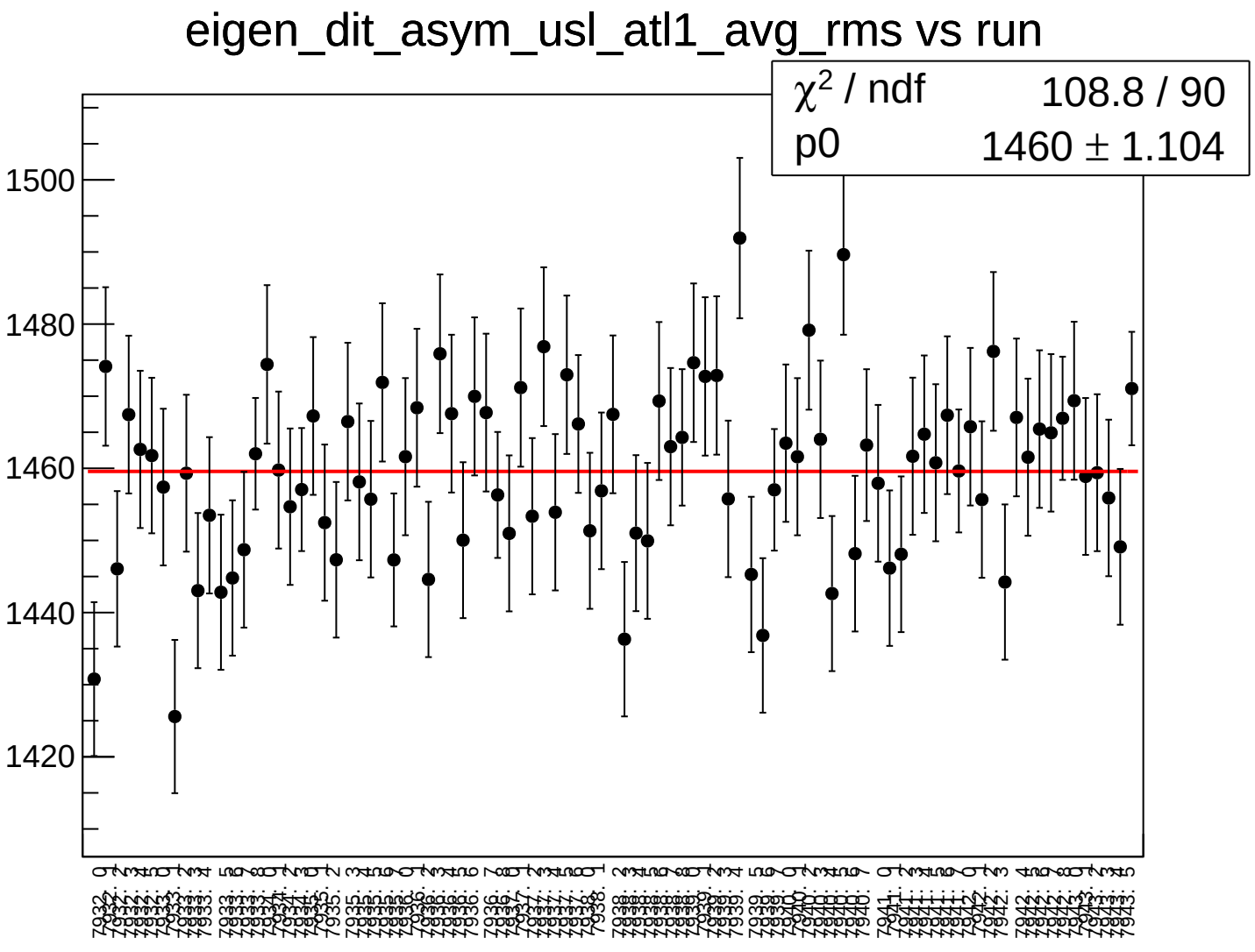

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 114.1 / 90
p0 −406.7 ± 660.5
pull
Entries 91
Mean 1542
Std Dev 0

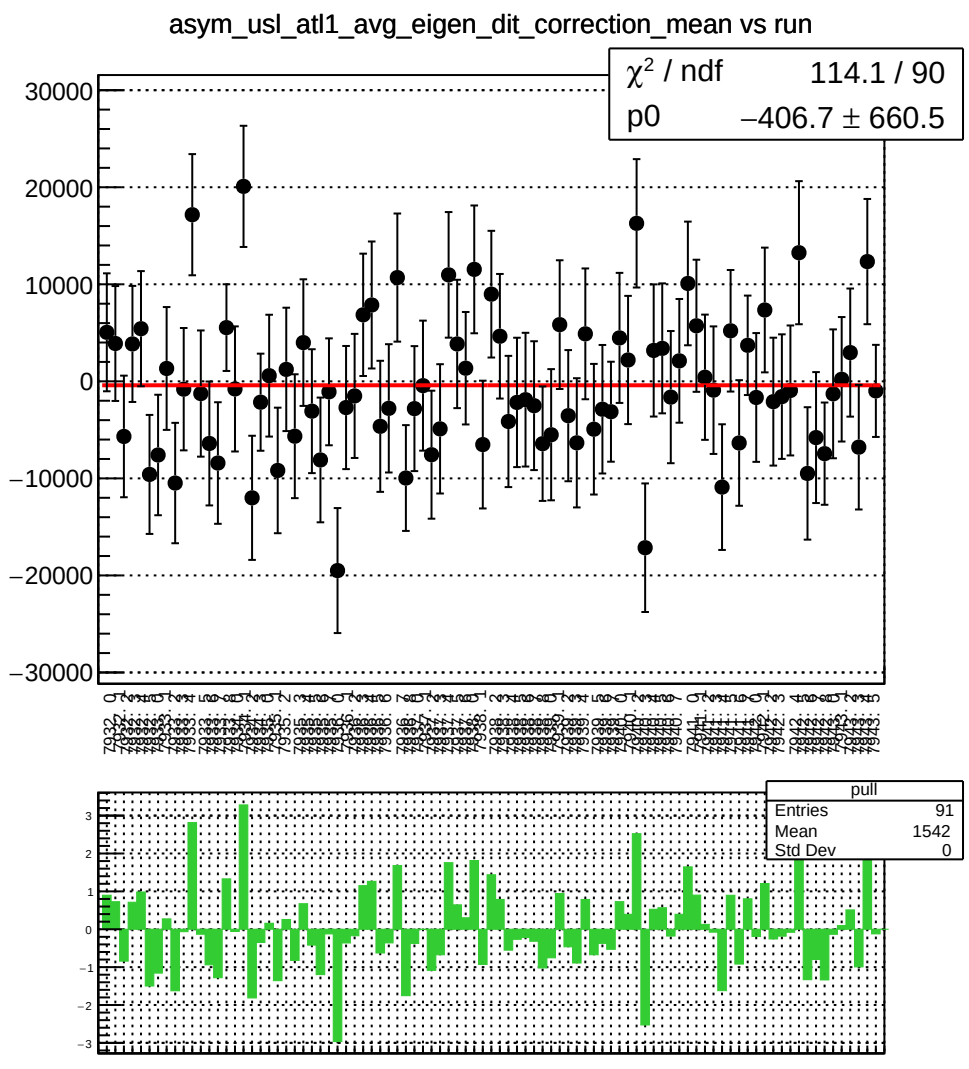

pull1D
Entries 91
Mean 0.0008293
Std Dev 1.12

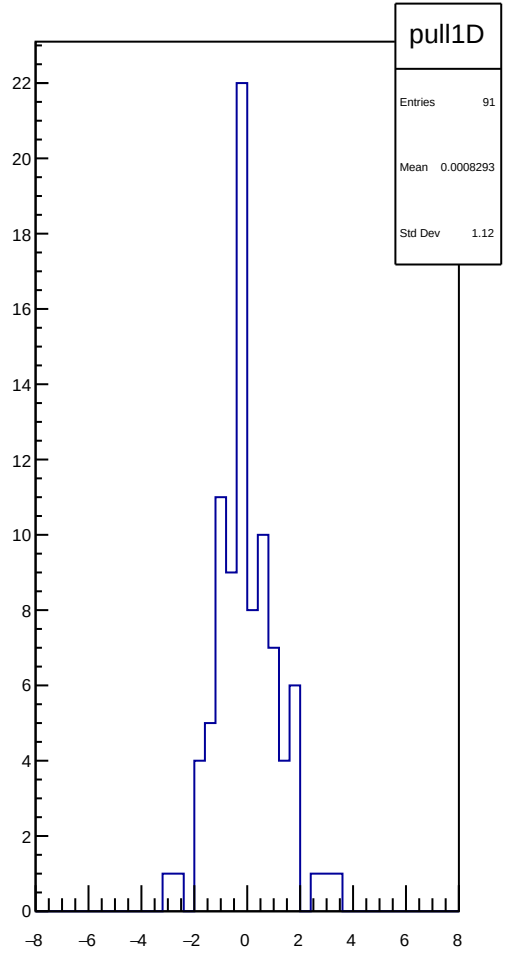

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2013 / 90
p0 617.2 ± 0.467
700
680
660
640
620
600
580
560

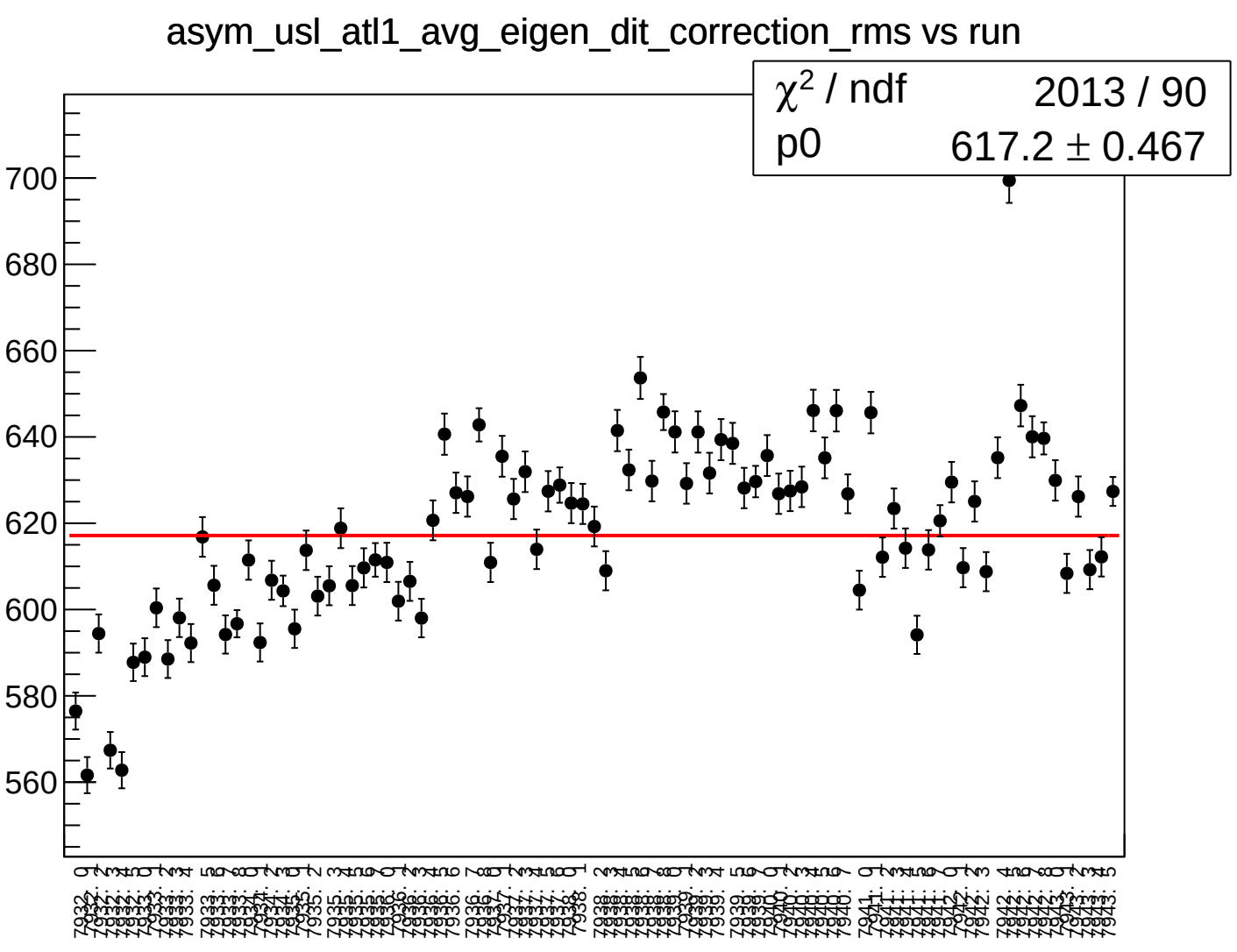

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 68.02 / 90
p0 −441.2 ± 1561
pull
Entries 91
Mean −308.3
Std Dev 0

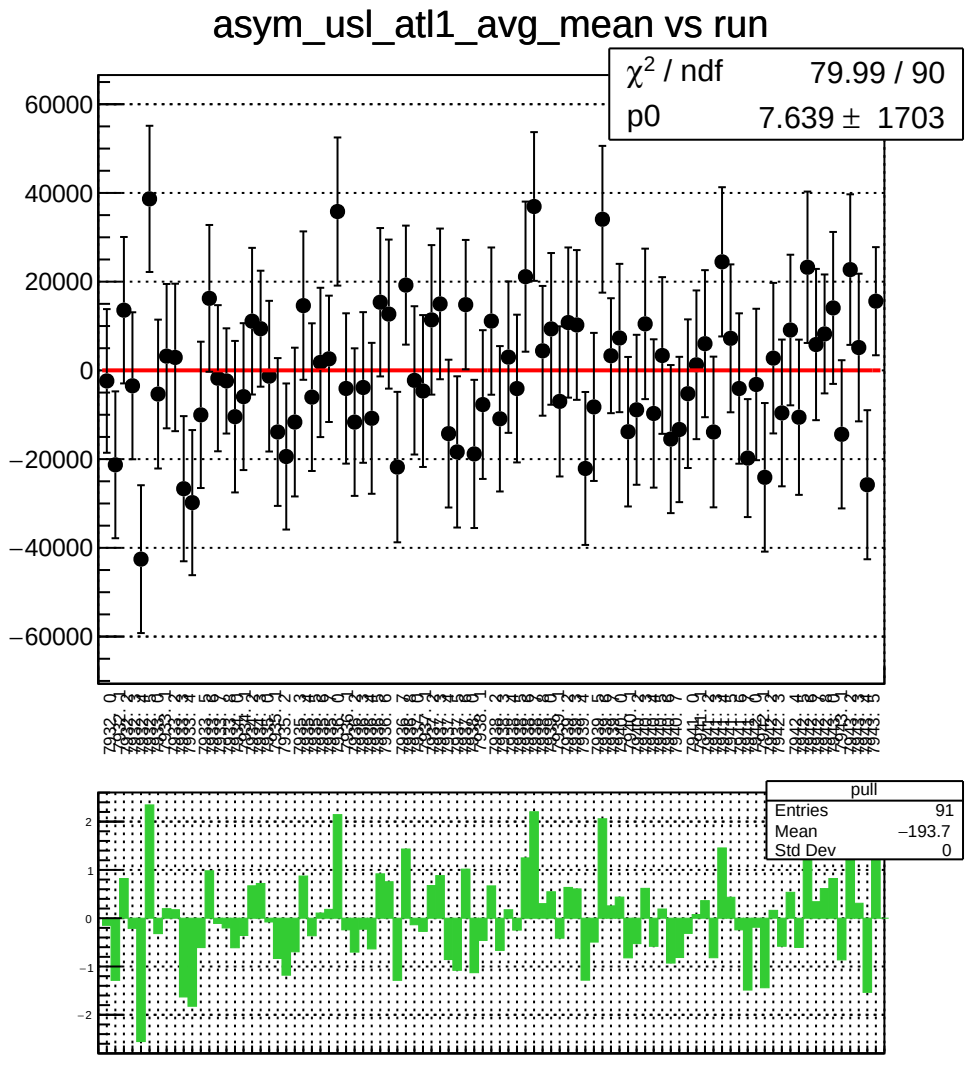

pull1D
Entries 91
Mean −0.009141
Std Dev 0.8645

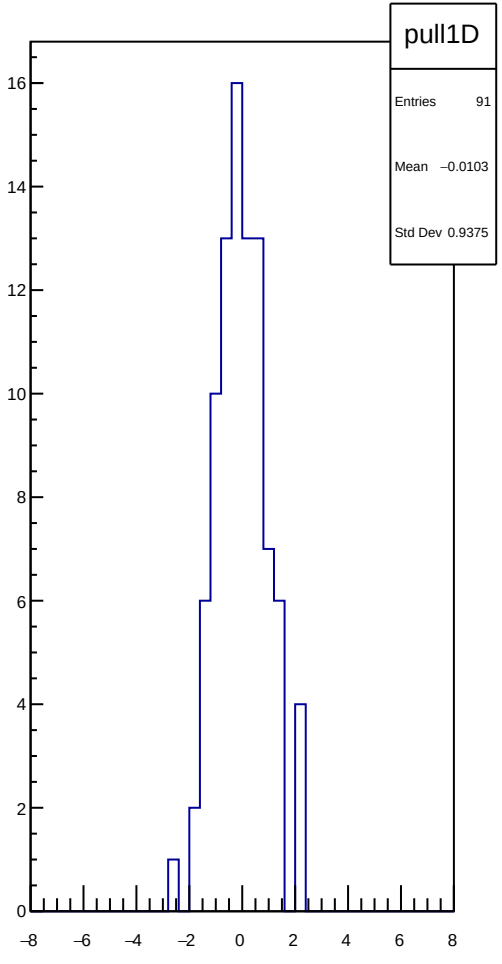

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 108.8 / 90
p0 1460 ± 1.104
1500
1480
1460
1440
1420

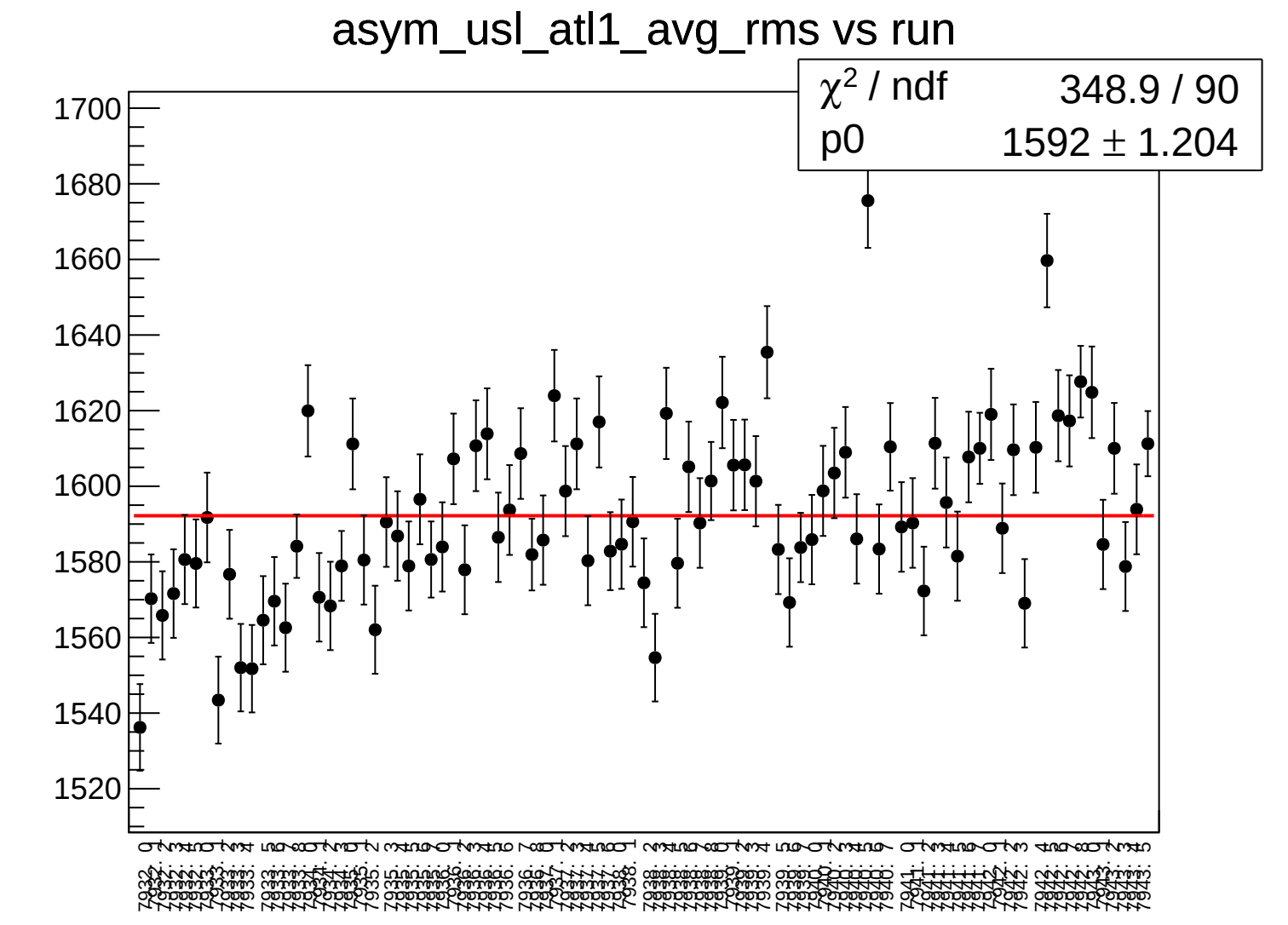

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.1 / 90
p0 −406.7 ± 660.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 1542
Std Dev 0
3
2
1
0
−1
−2
−3

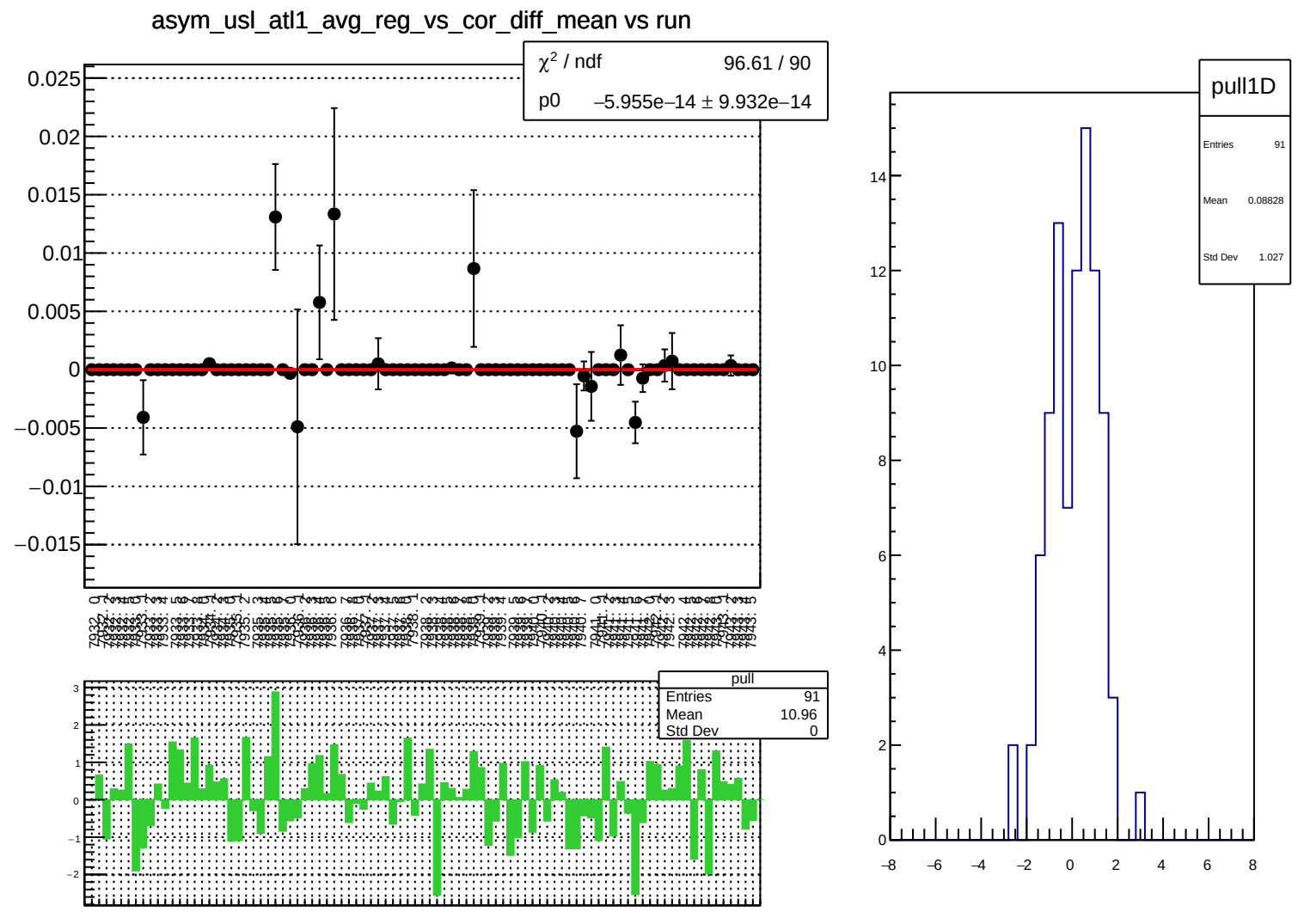

pull1D
Entries 91
Mean 0.0008293
Std Dev 1.12
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

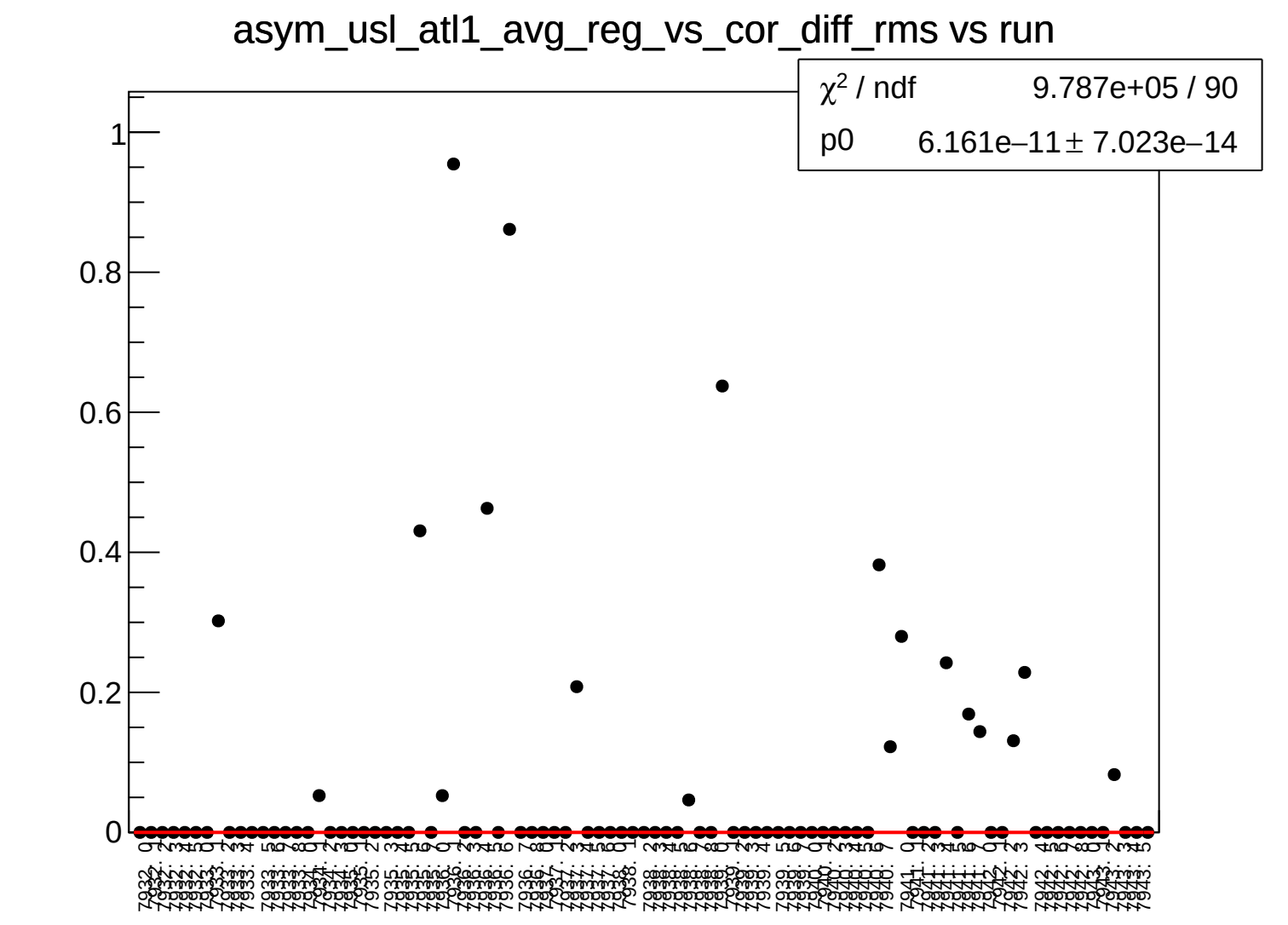

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2013 / 90
p0 617.2 ± 0.467
700
680
660
640
620
600
580
560

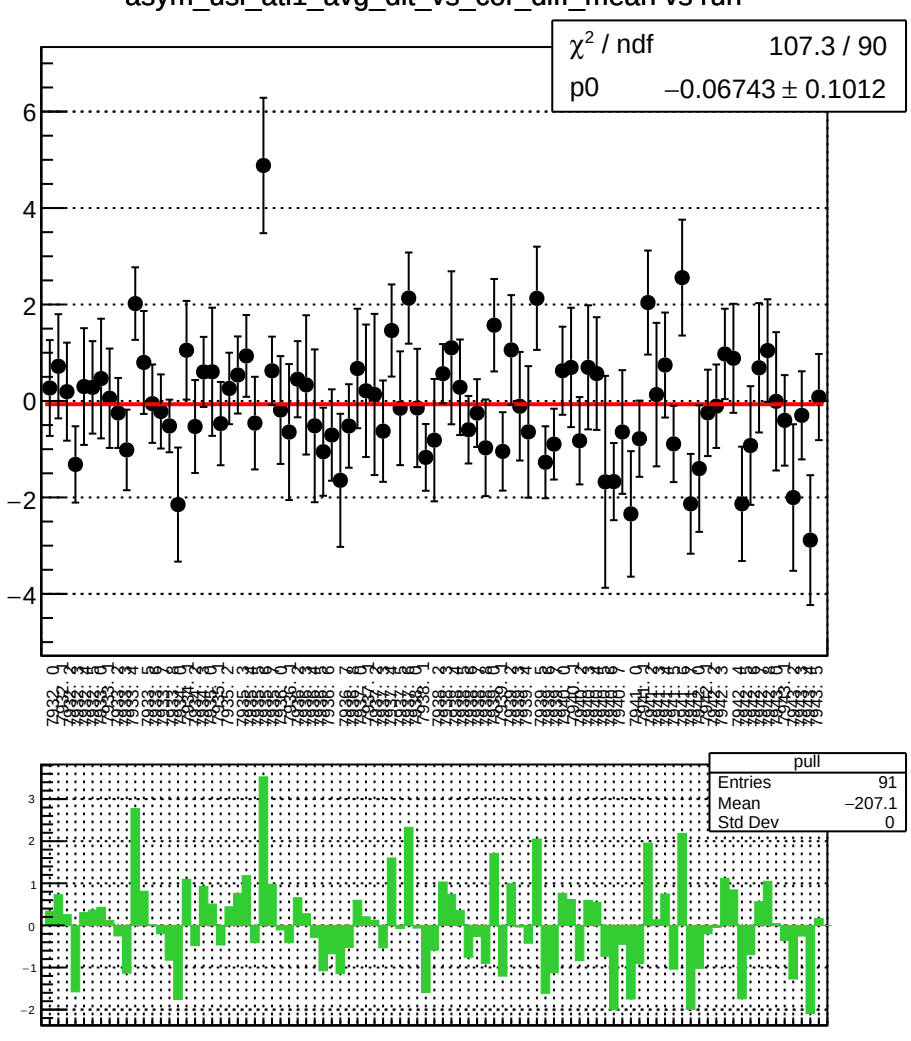

asym_usl_atl1_avg_mean vs run
χ² / ndf 79.99 / 90
p0 7.639 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −193.7
Std Dev 0
2
1
0
−1
−2

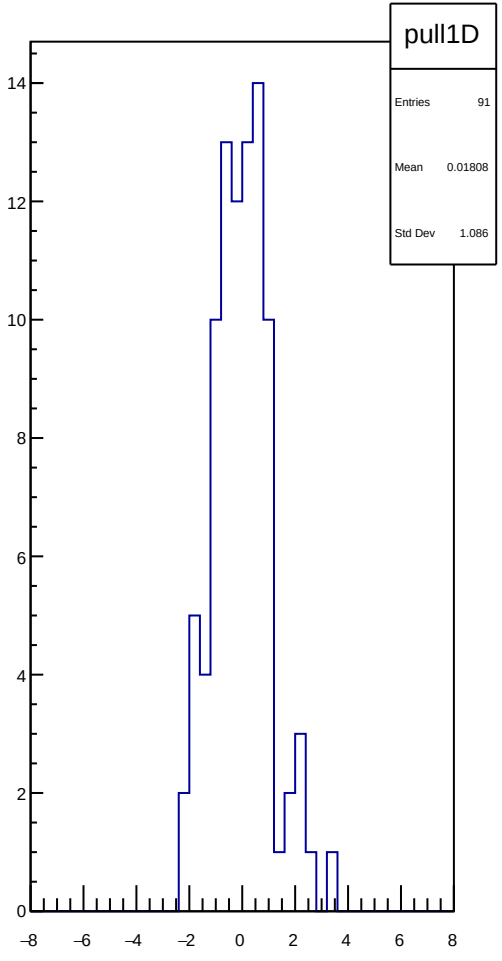

pull1D
Entries 91
Mean −0.0103
Std Dev 0.9375
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

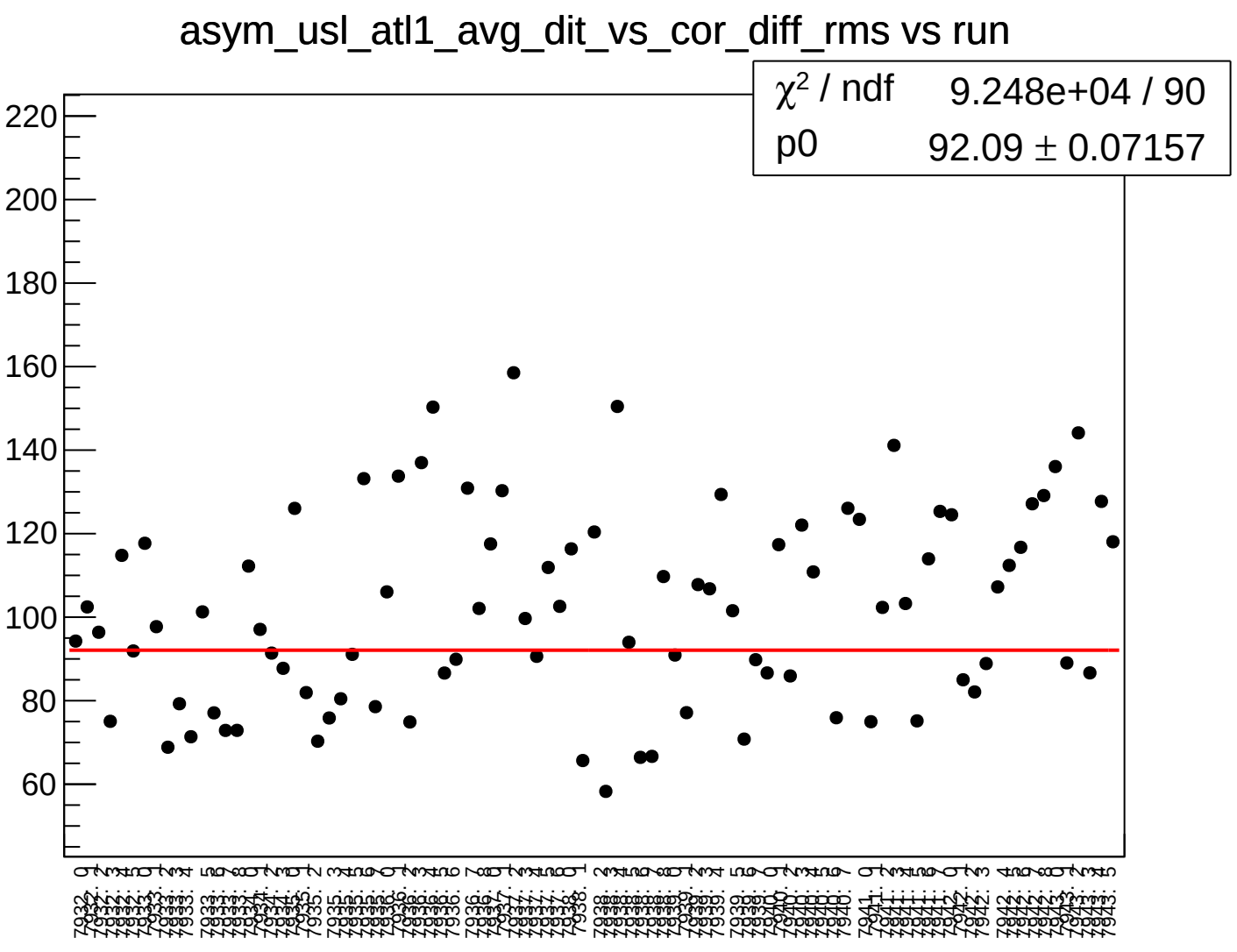

asym_usl_atl1_avg_rms vs run
χ² / ndf 348.9 / 90
p0 1592 ± 1.204
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

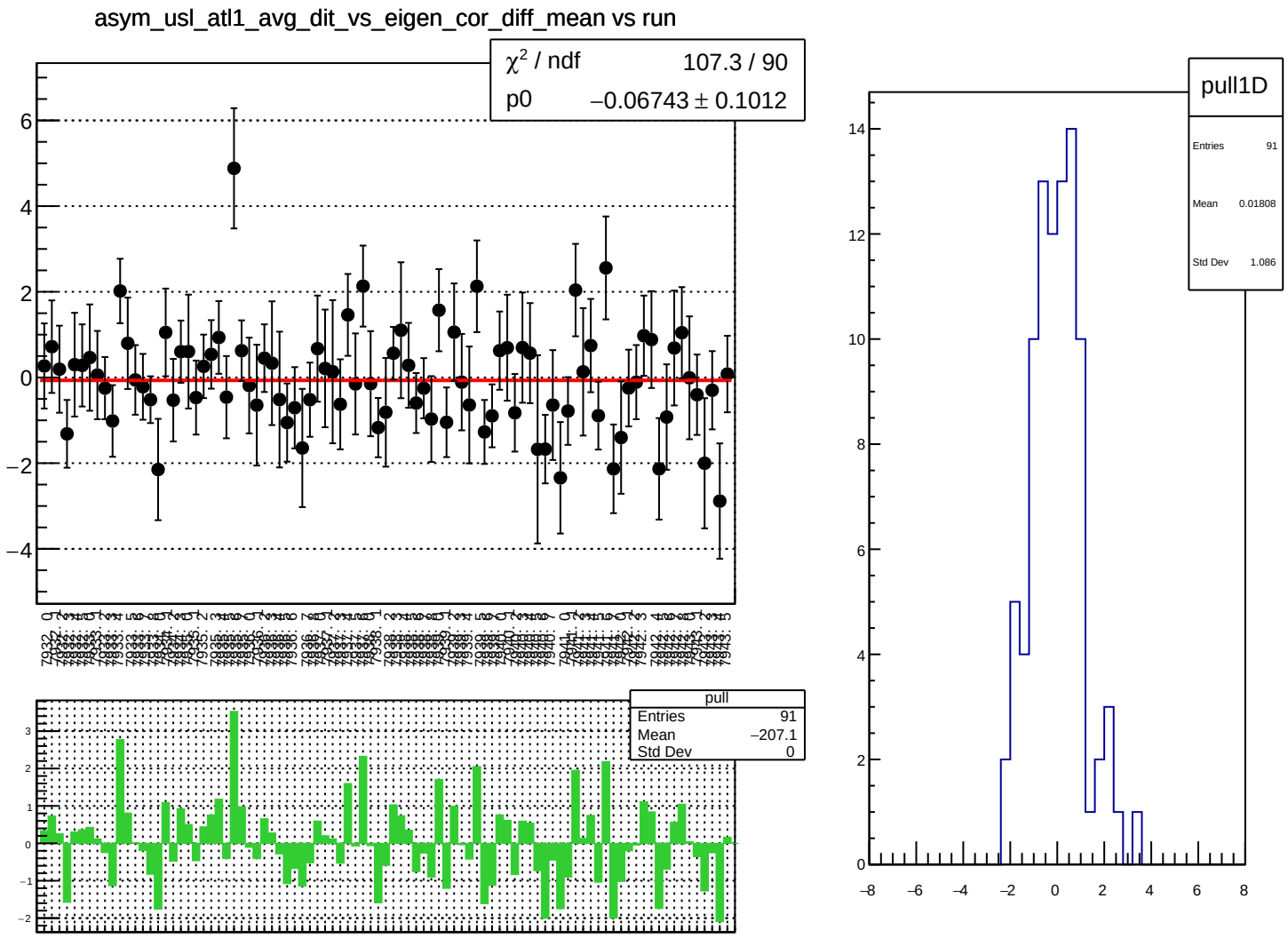

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.61 / 90
p0 −5.955e−14 ± 9.932e−14
pull
Entries 91
Mean 10.96
Std Dev 0
pull1D
Entries 91
Mean 0.08828
Std Dev 1.027

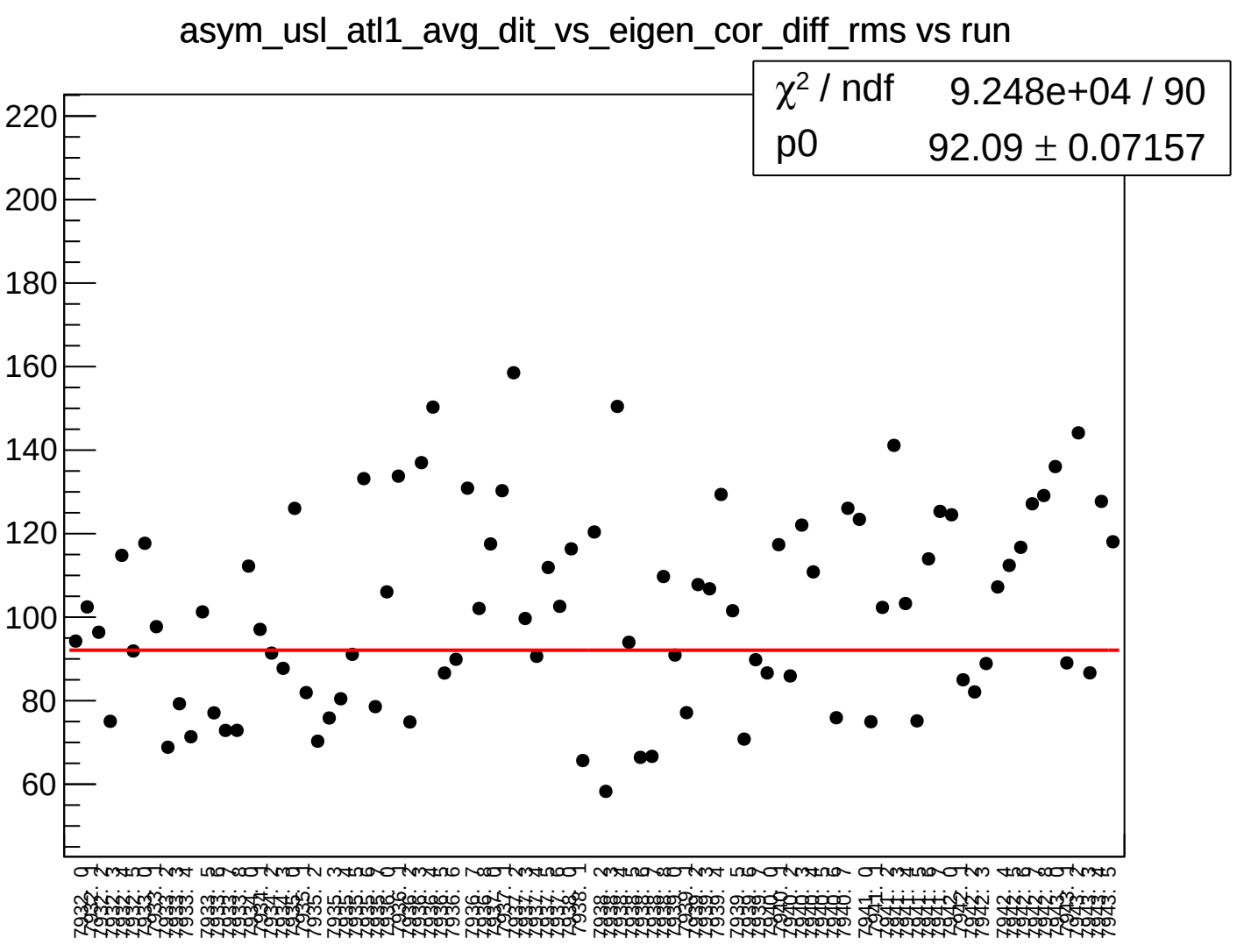

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.787e+05 / 90
p0 6.161e−11 ± 7.023e−14
1
0.8
0.6
0.4
0.2
0

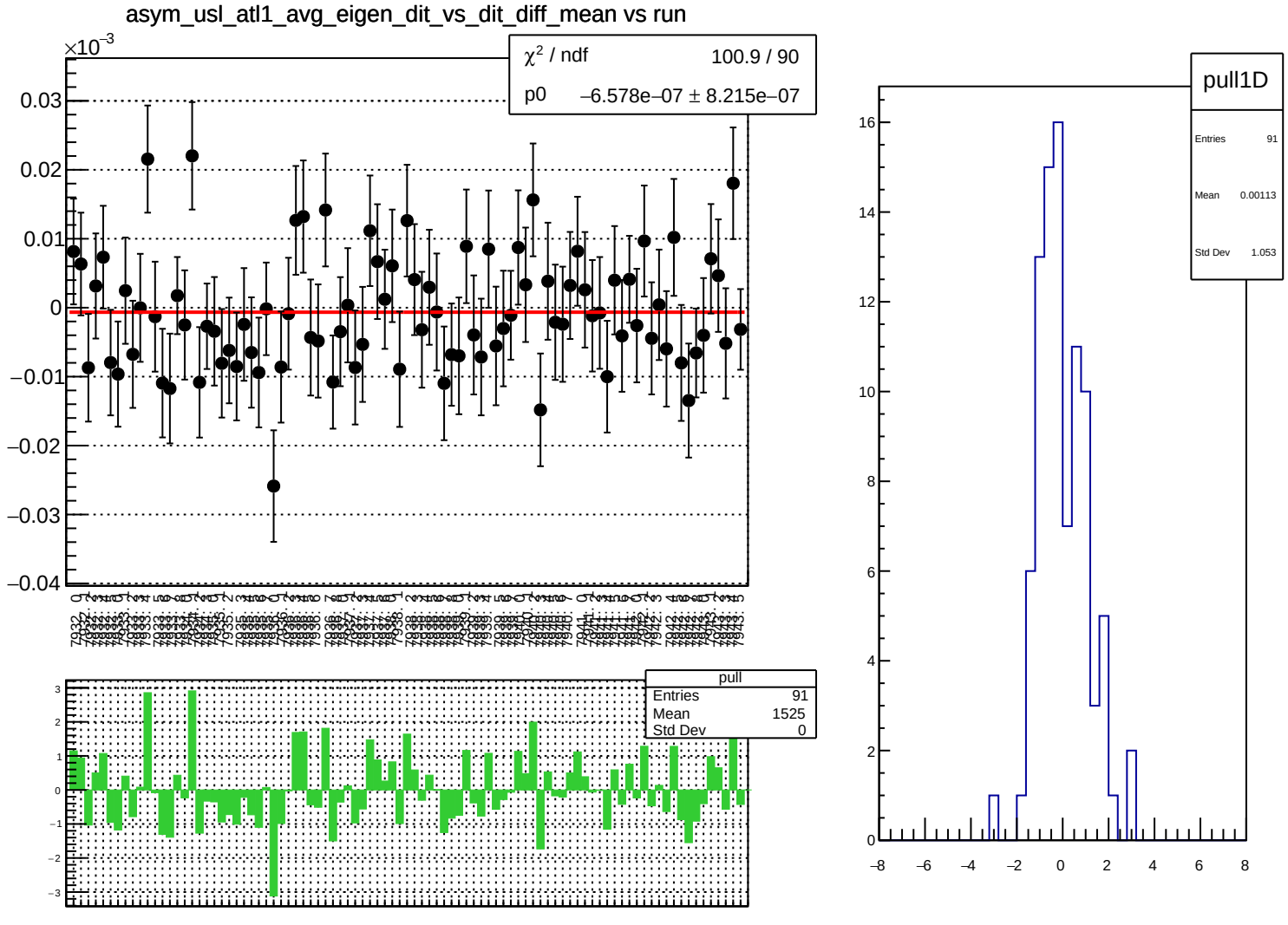

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.3 / 90
p0 −0.06743 ± 0.1012
pull
Entries 91
Mean −207.1
Std Dev 0

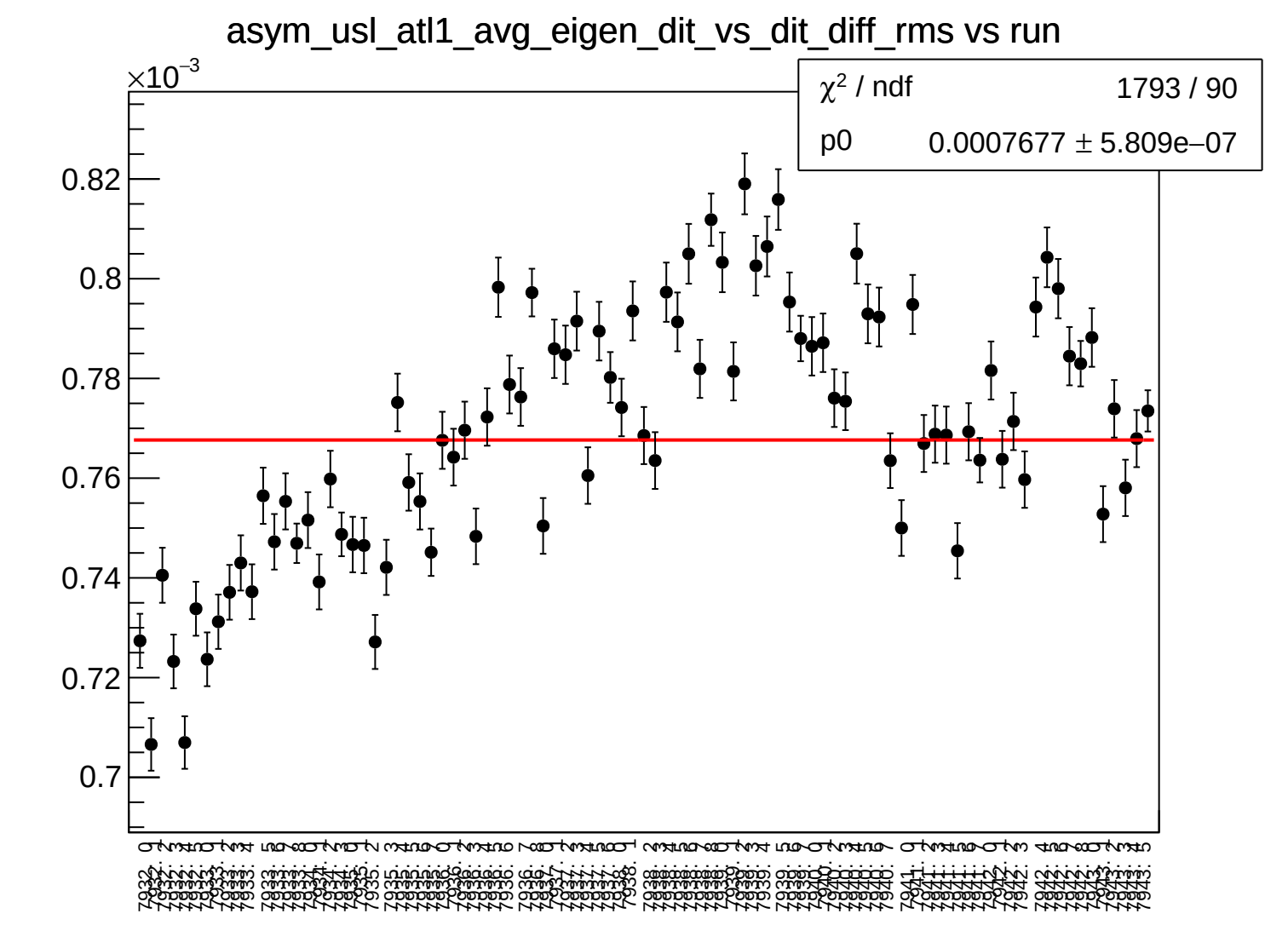

pull1D
Entries 91
Mean 0.01808
Std Dev 1.086

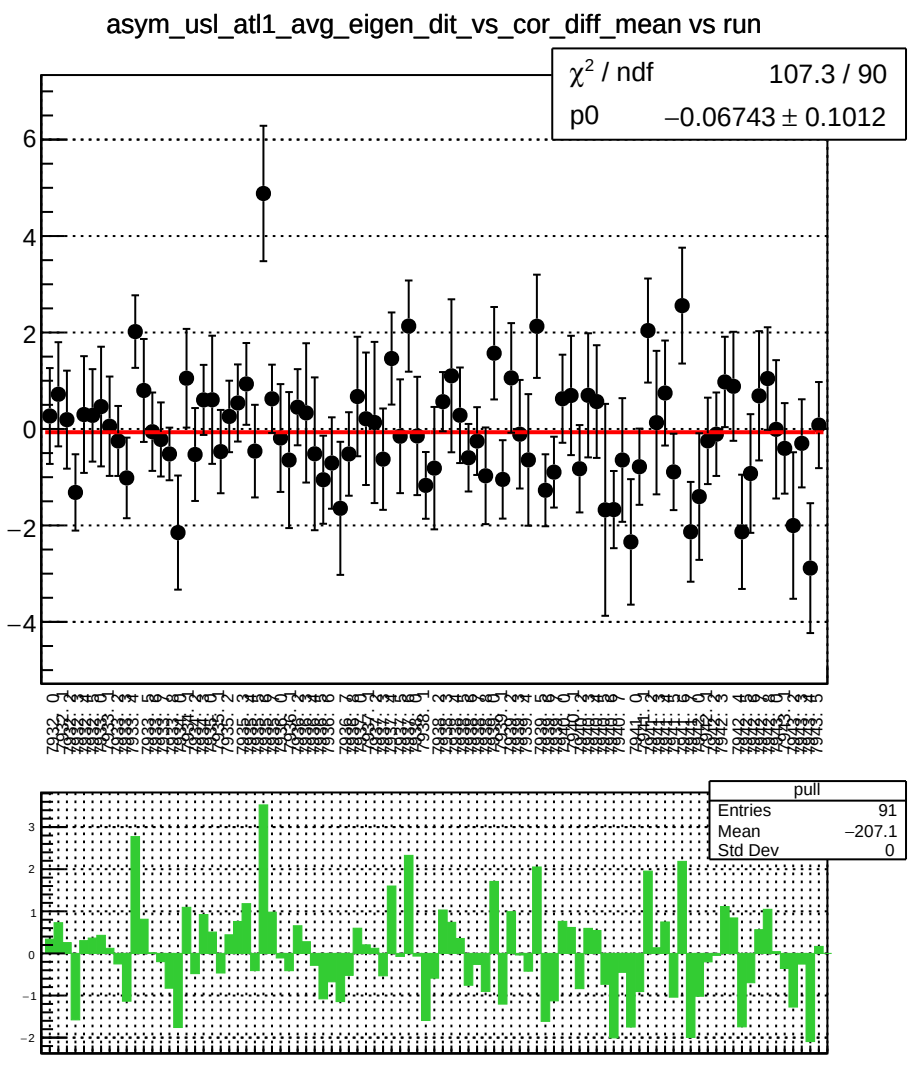

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.248e+04 / 90
p0 92.09 ± 0.07157
220
200
180
160
140
120
100
80
60

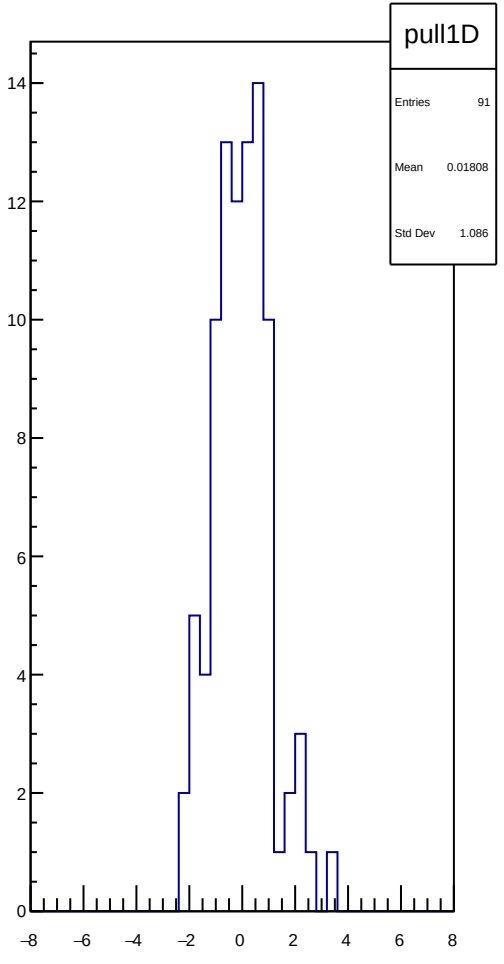

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.3 / 90
p0 −0.06743 ± 0.1012
pull
Entries 91
Mean −207.1
Std Dev 0
pull1D
Entries 91
Mean 0.01808
Std Dev 1.086

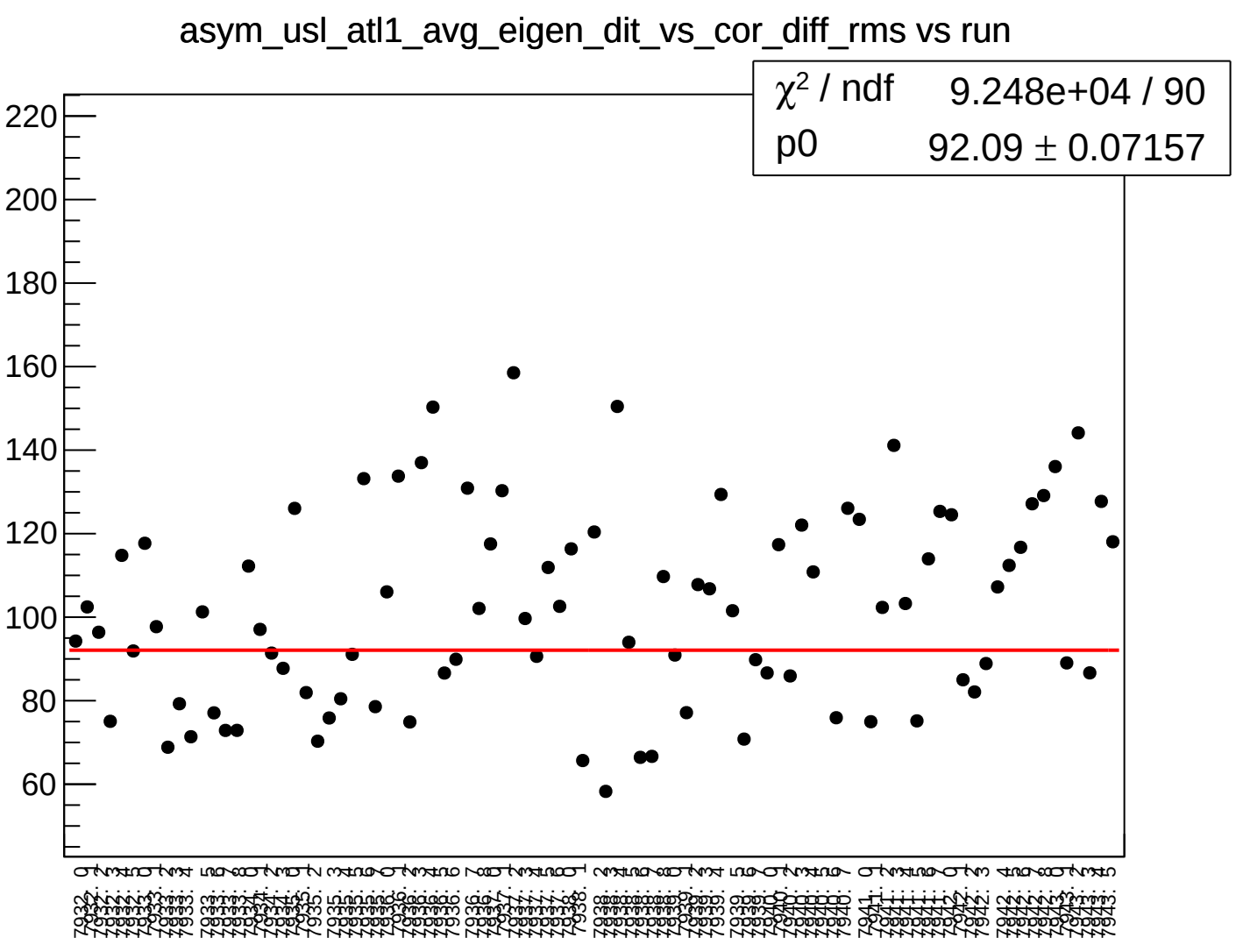

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.248e+04 / 90
p0 92.09 ± 0.07157
220
200
180
160
140
120
100
80
60

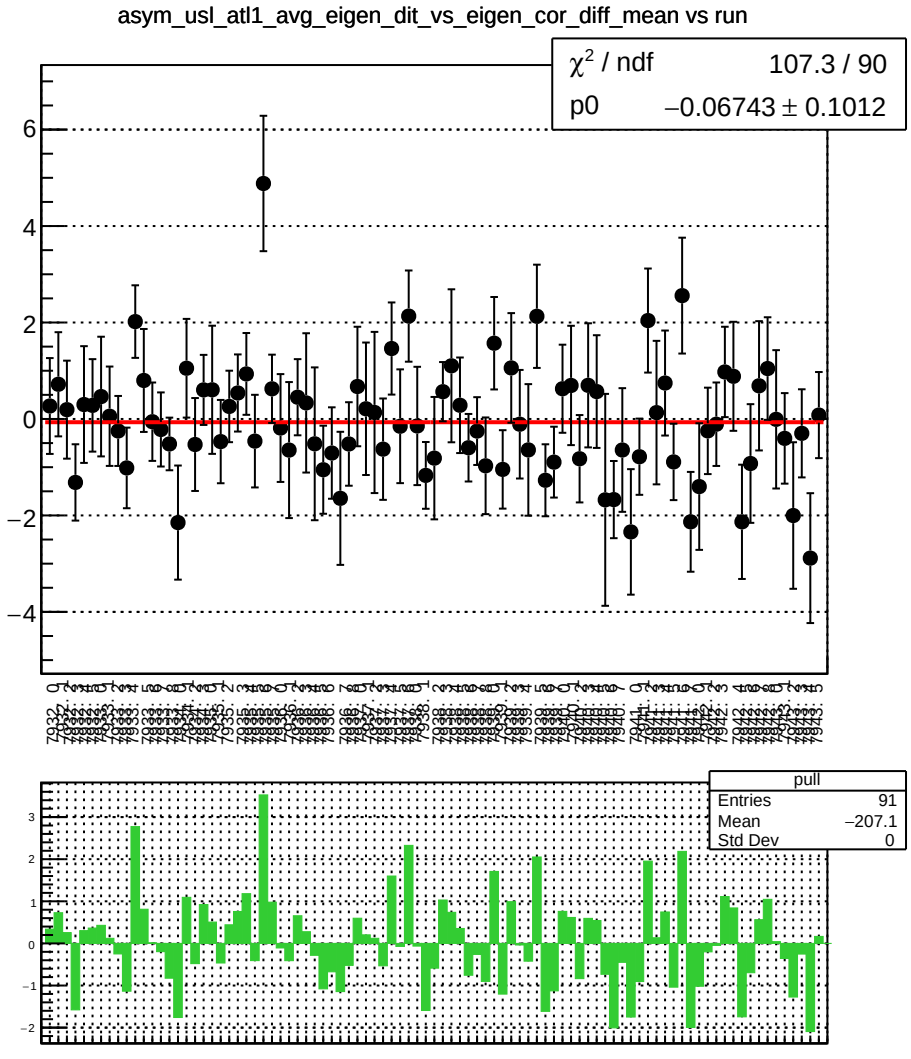

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.9 / 90
p0 −6.578e−07 ± 8.215e−07
pull
Entries 91
Mean 1525
Std Dev 0
pull1D
Entries 91
Mean 0.00113
Std Dev 1.053

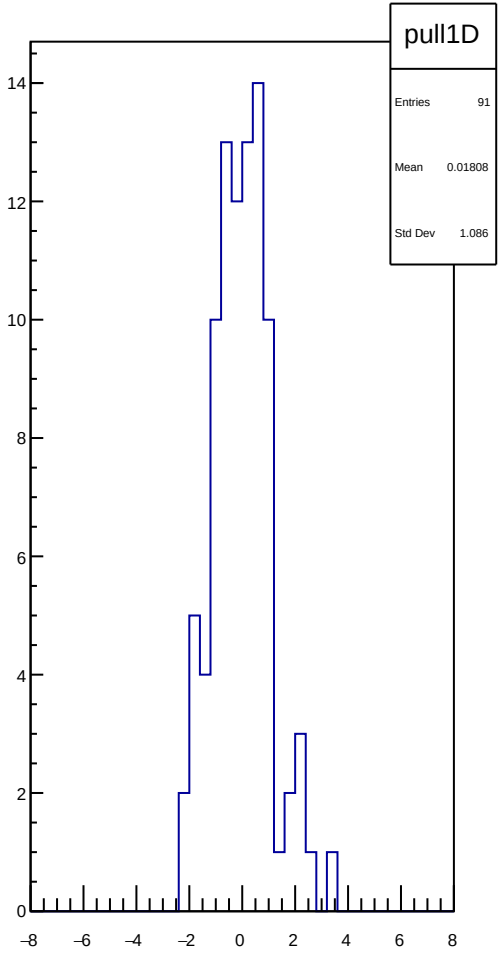

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1793 / 90
p0 0.0007677 ± 5.809e−07
0.82
0.8
0.78
0.76
0.74
0.72
0.7

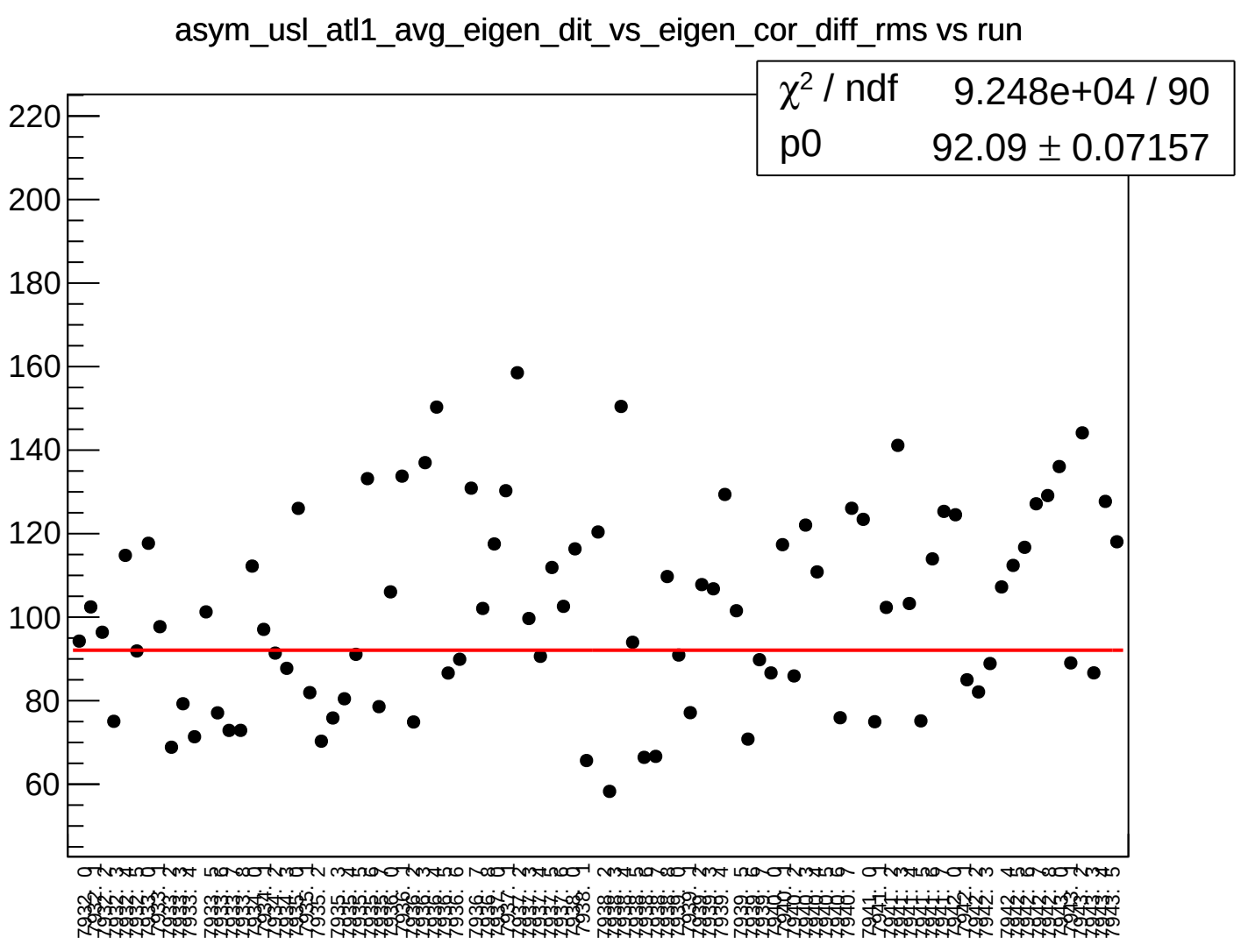

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.3 / 90
p0 −0.06743 ± 0.1012
pull
Entries 91
Mean −207.1
Std Dev 0

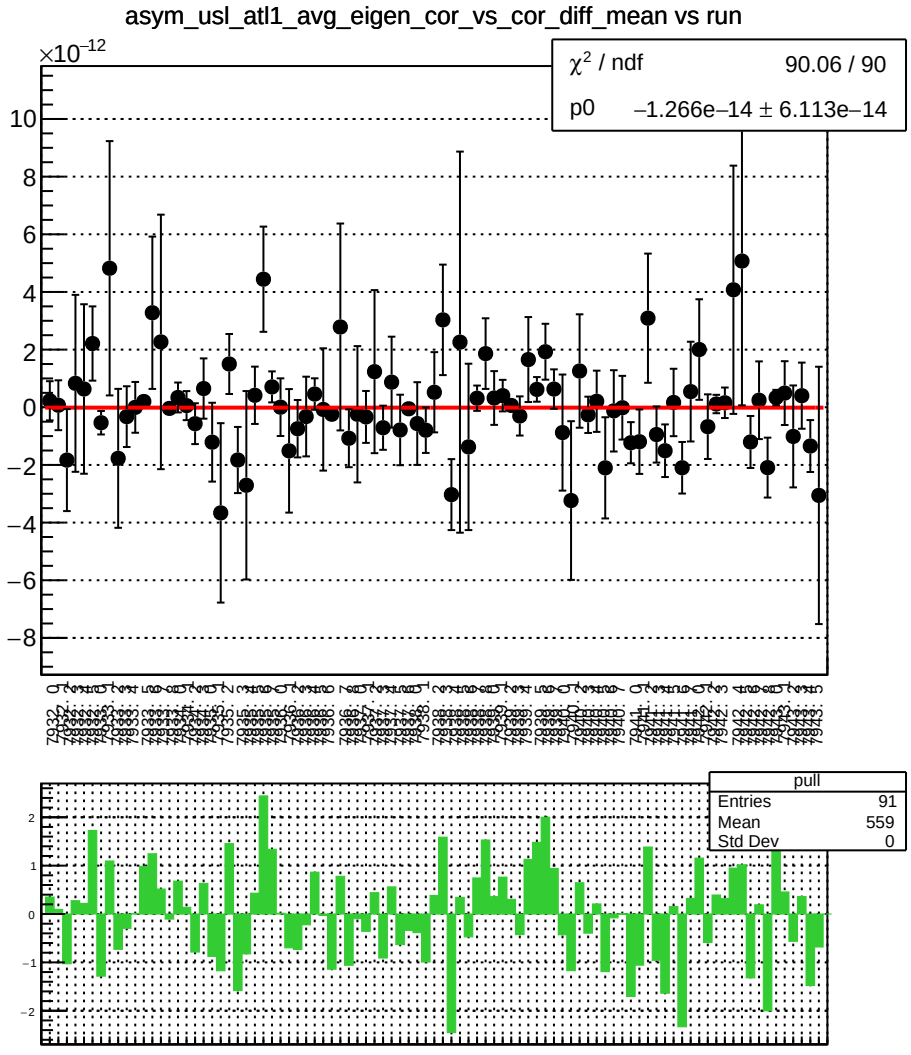

pull1D
Entries 91
Mean 0.01808
Std Dev 1.086

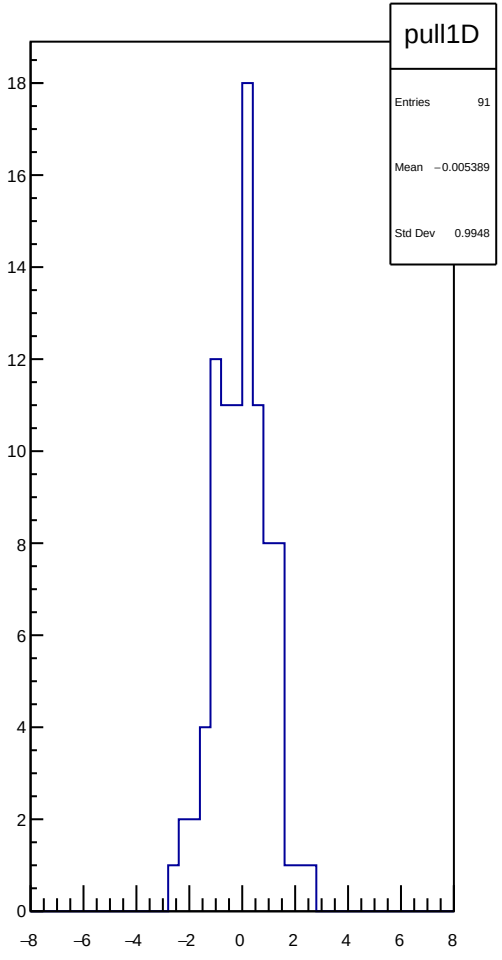

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.248e+04 / 90
p0 92.09 ± 0.07157
220
200
180
160
140
120
100
80
60

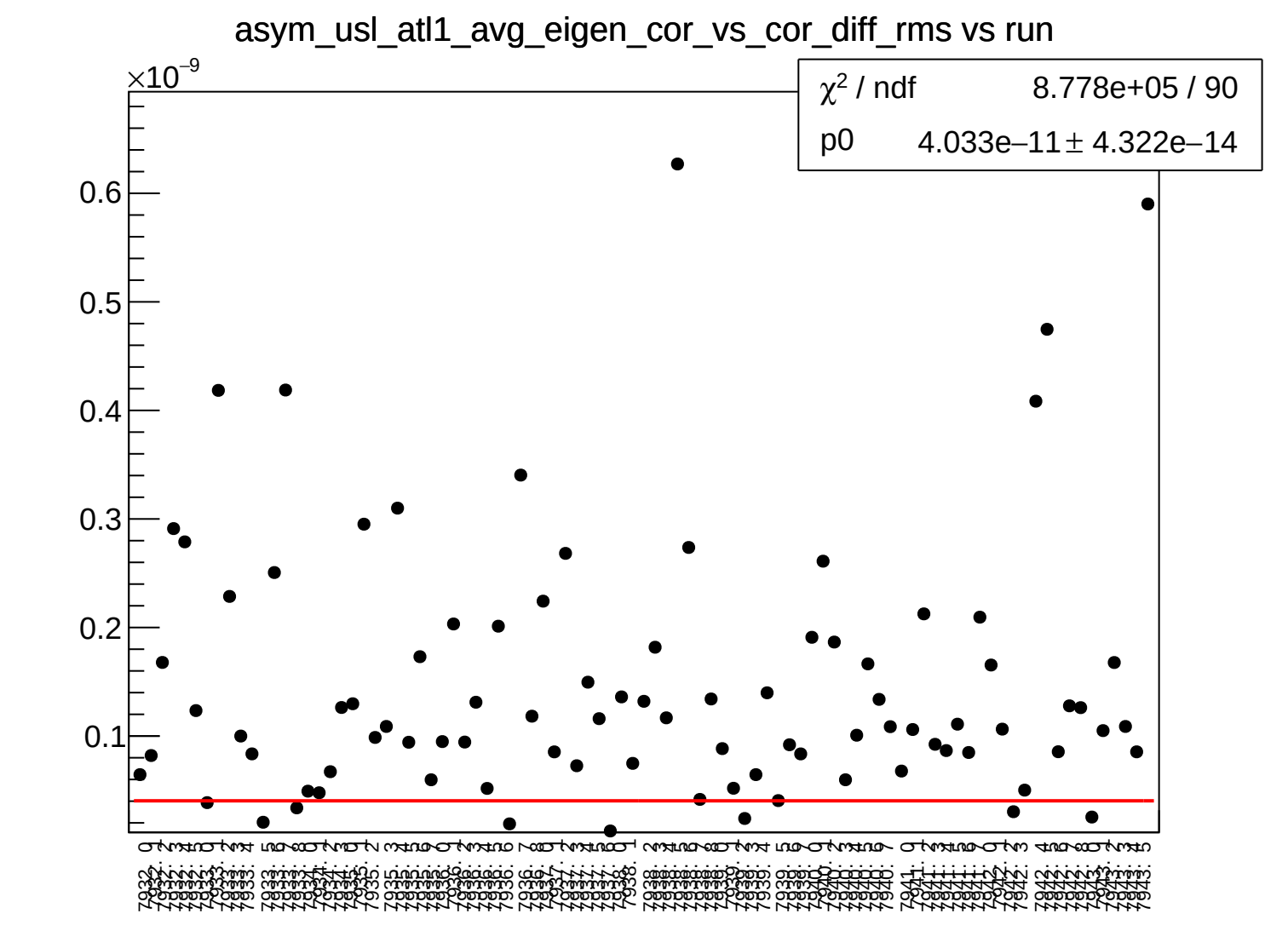

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.3 / 90
p0 −0.06743 ± 0.1012
pull
Entries 91
Mean −207.1
Std Dev 0

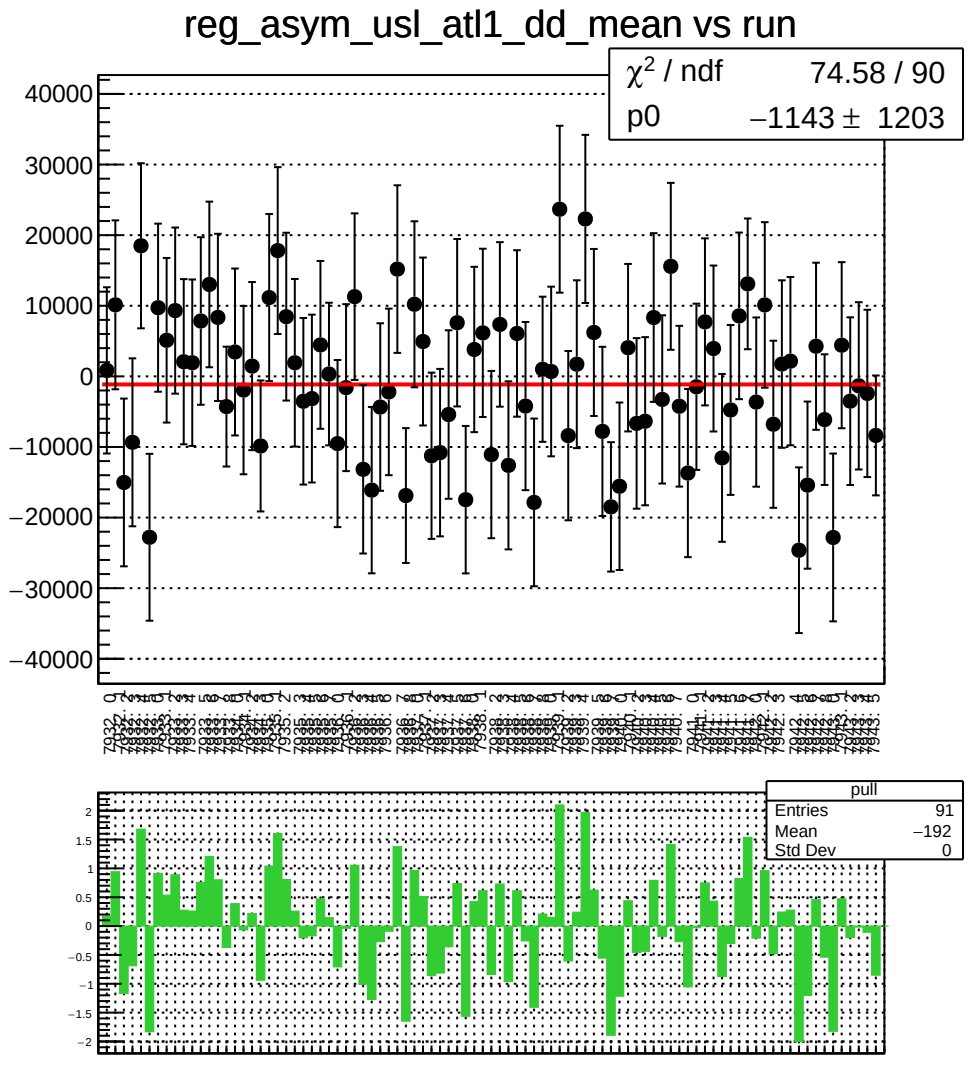

pull1D
Entries 91
Mean 0.01808
Std Dev 1.086

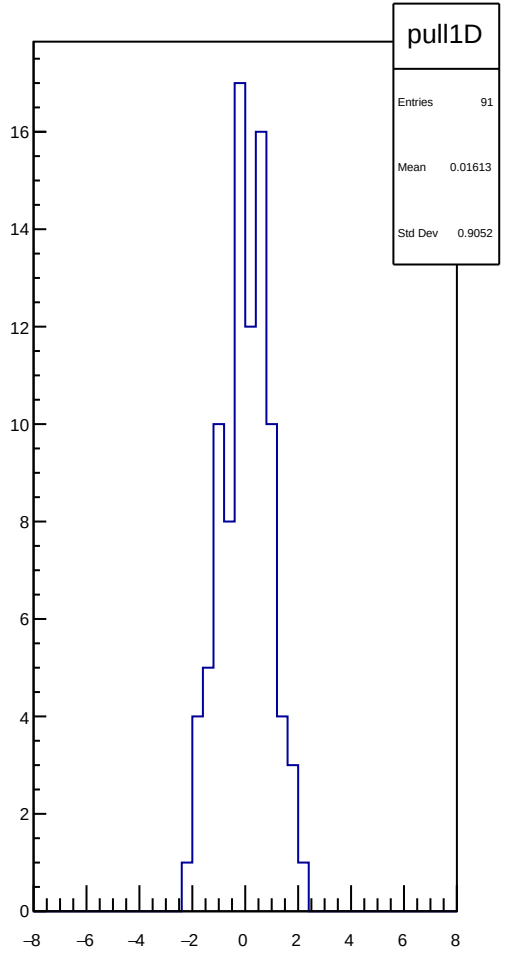

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.248e+04 / 90
p0 92.09 ± 0.07157
220
200
180
160
140
120
100
80
60

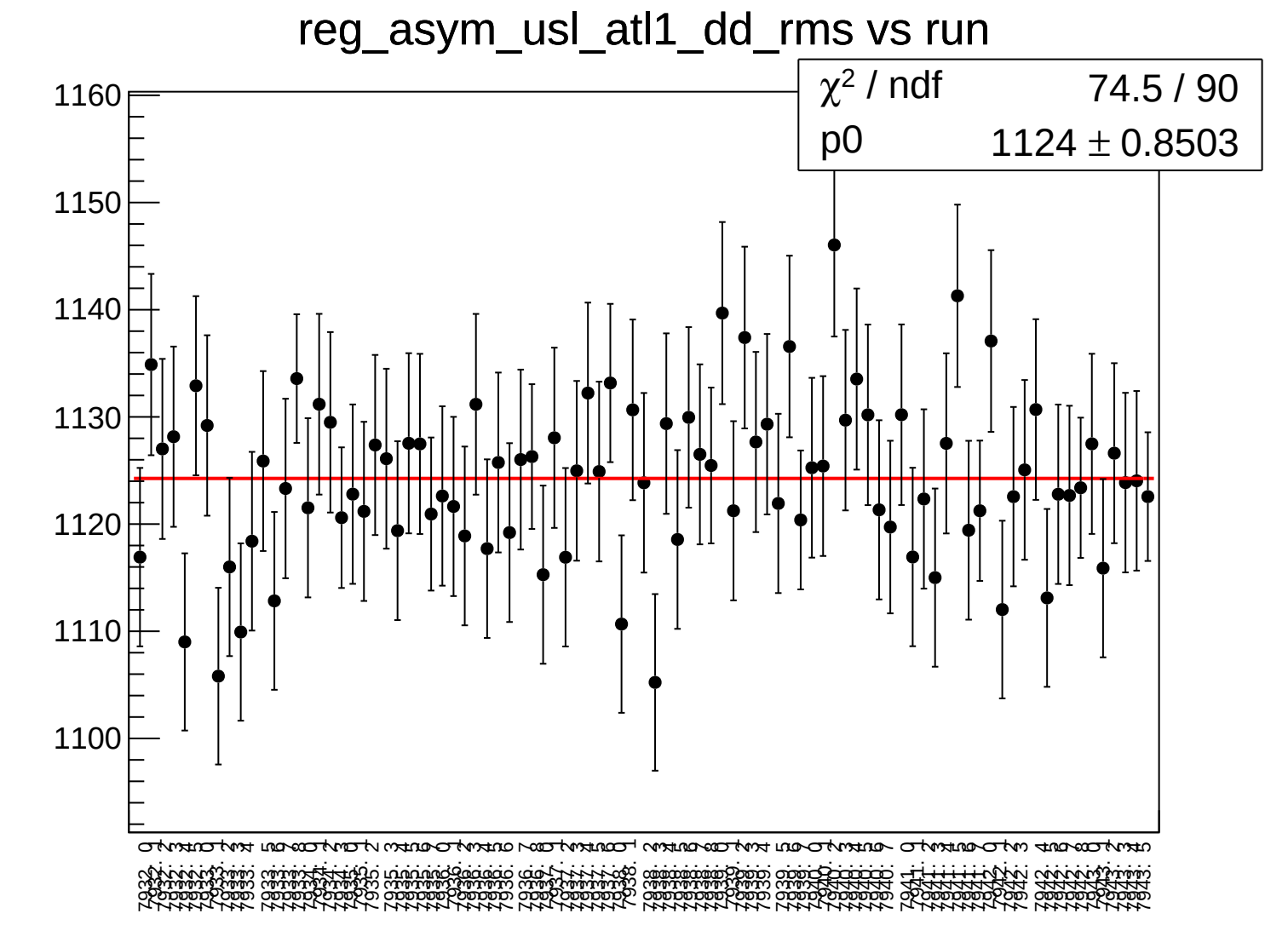

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.06 / 90
p0 −1.266e−14 ± 6.113e−14
pull
Entries 91
Mean 559
Std Dev 0

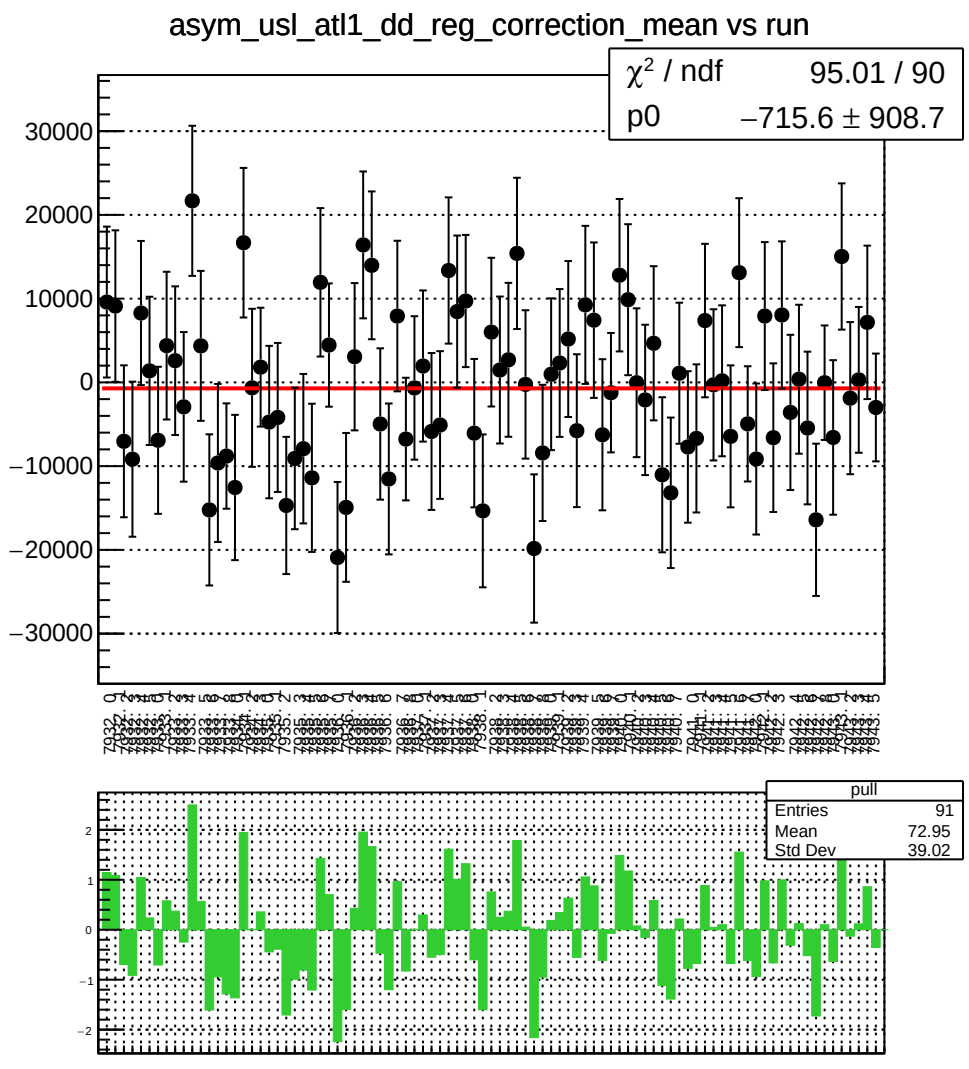

pull1D
Entries 91
Mean −0.005389
Std Dev 0.9948

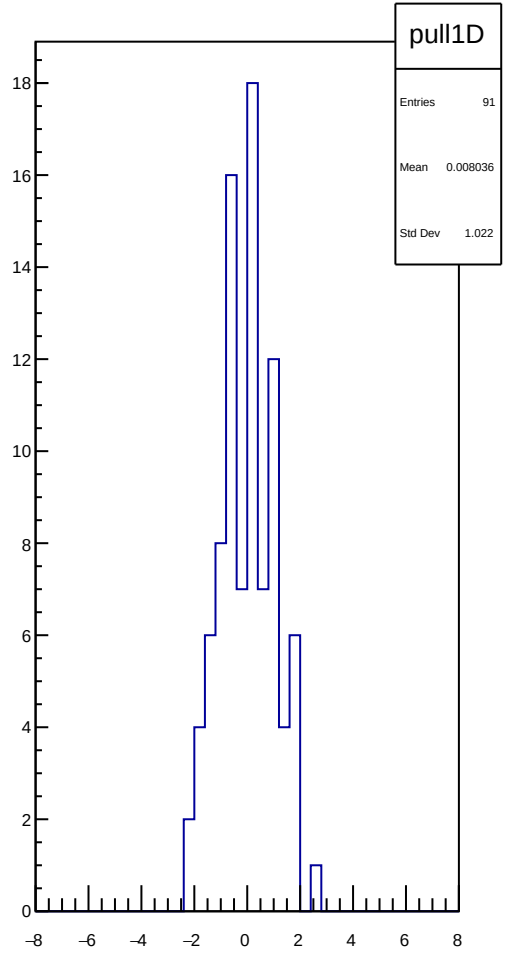

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.778e+05 / 90
p0 4.033e−11 ± 4.322e−14
0.6
0.5
0.4
0.3
0.2
0.1

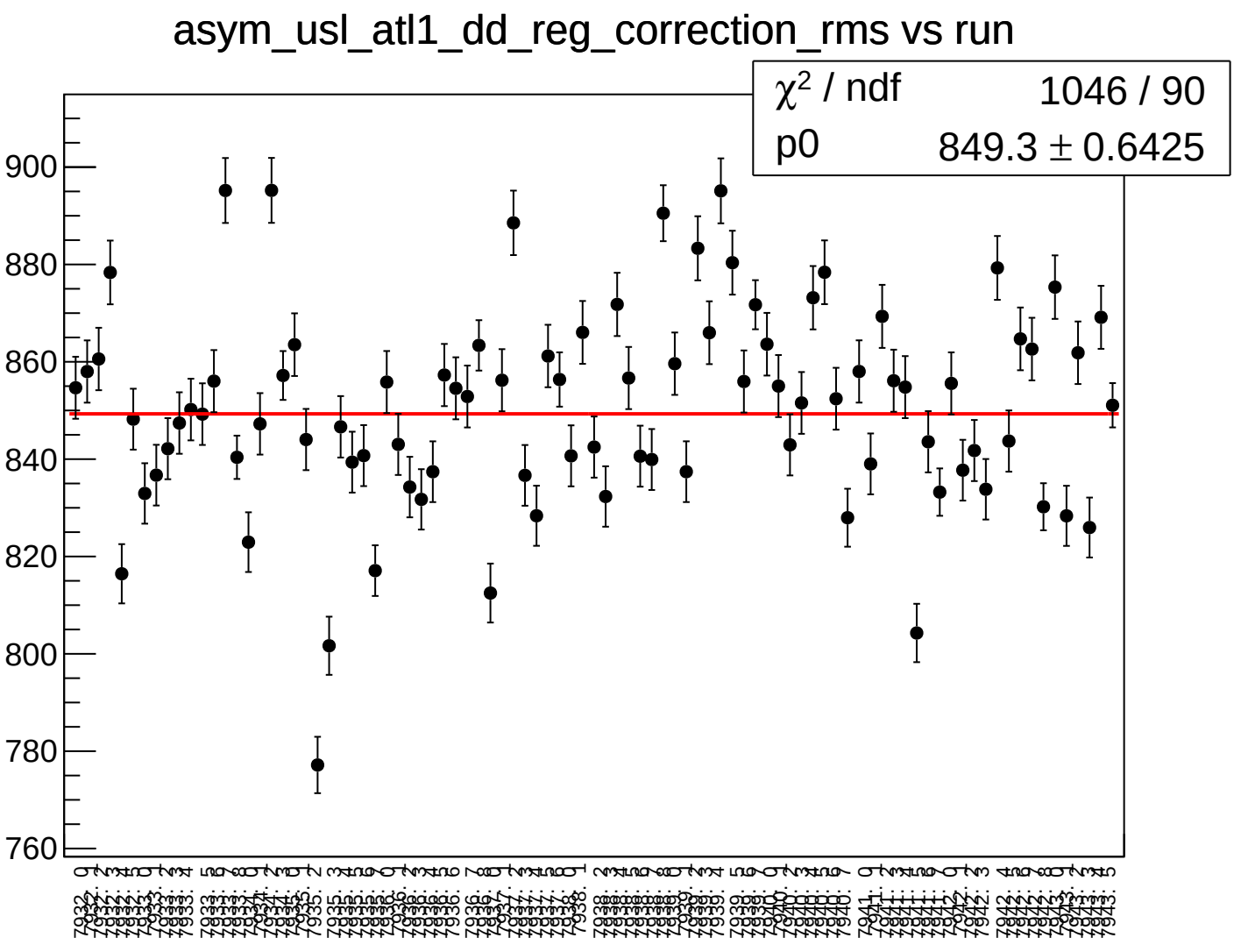

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.58 / 90
p0 −1143 ± 1203
pull
Entries 91
Mean −192
Std Dev 0

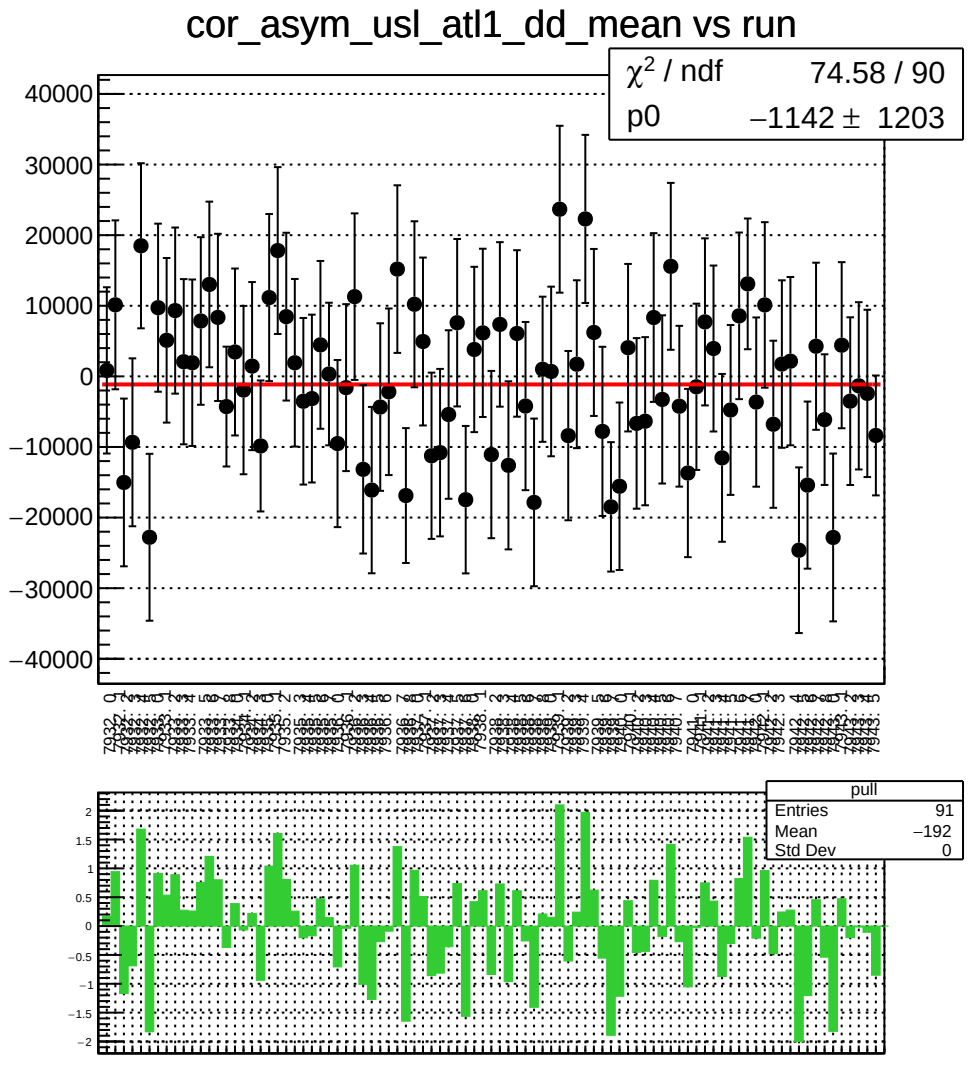

pull1D
Entries 91
Mean 0.01613
Std Dev 0.9052

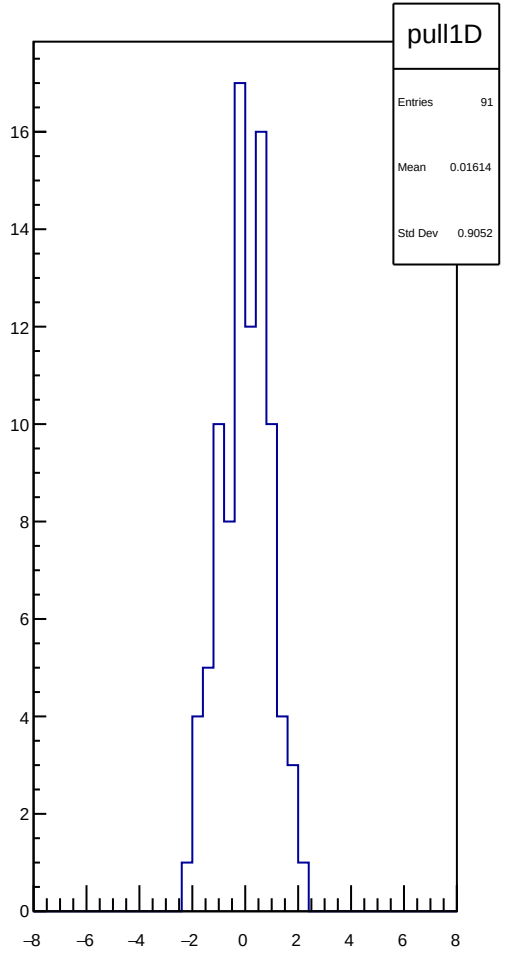

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 74.5 / 90
p0 1124 ± 0.8503
1160
1150
1140
1130
1120
1110
1100

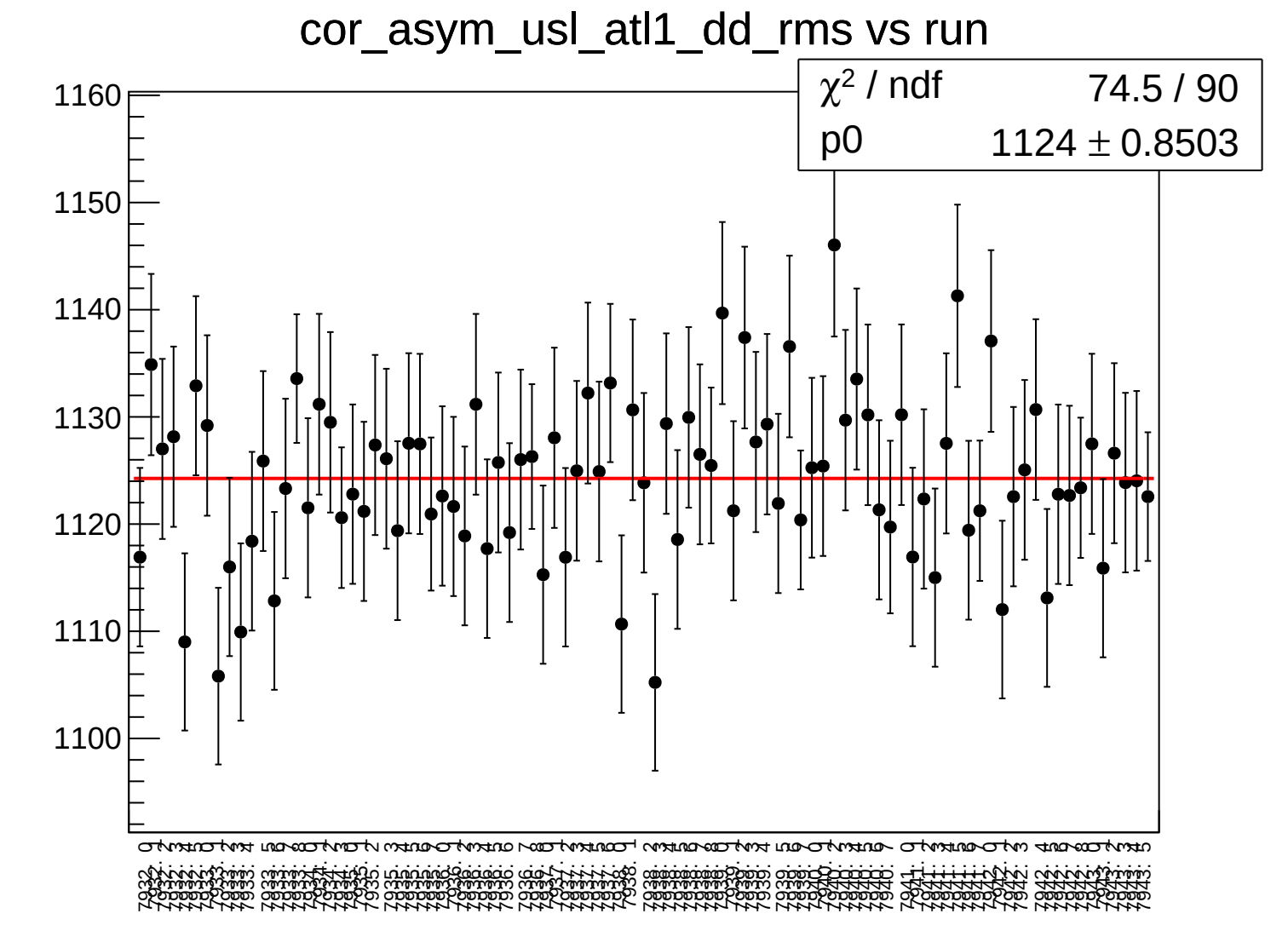

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 95.01 / 90
p0 −715.6 ± 908.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 72.95
Std Dev 39.02
2
1
0
−1
−2

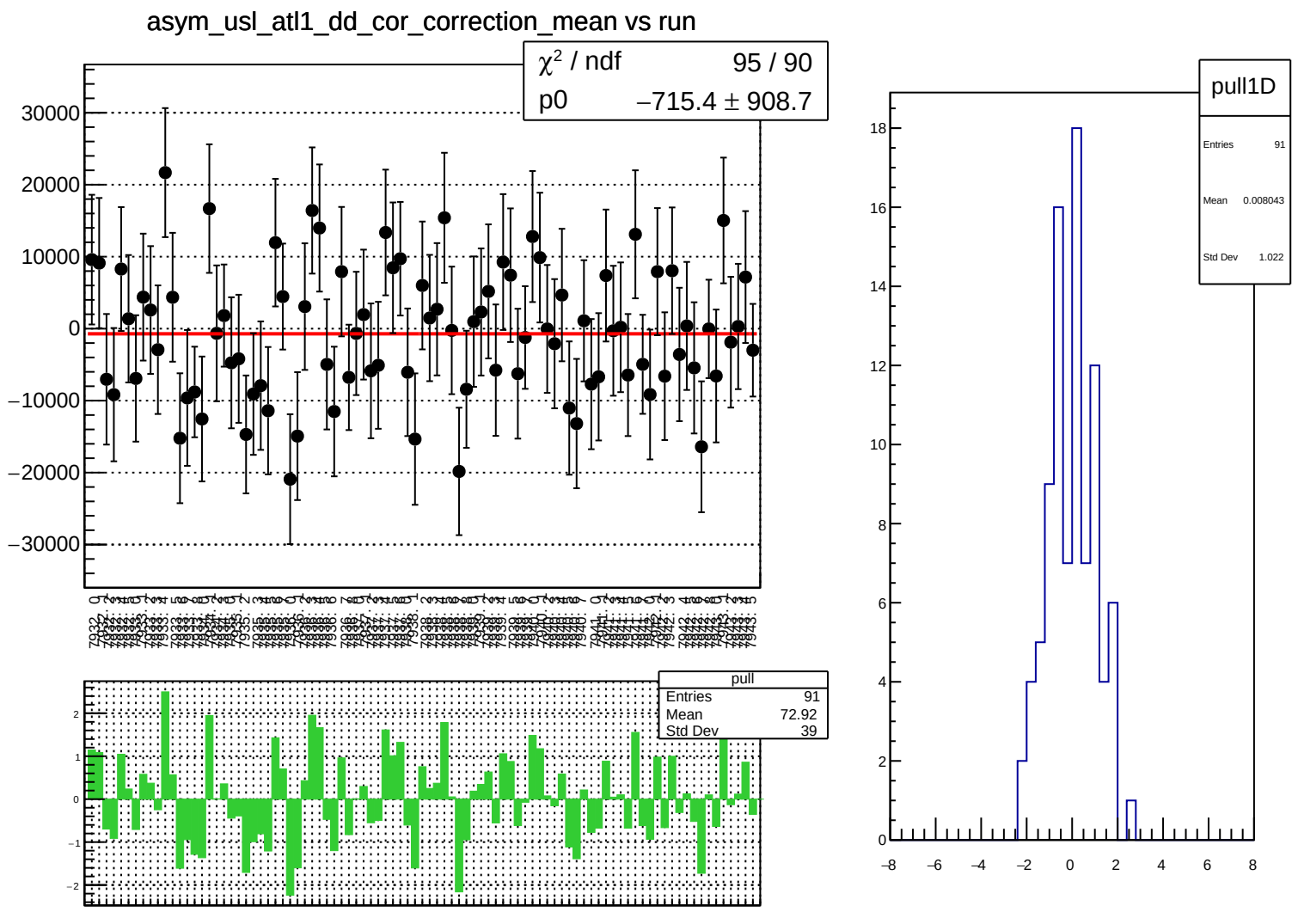

pull1D
Entries 91
Mean 0.008036
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

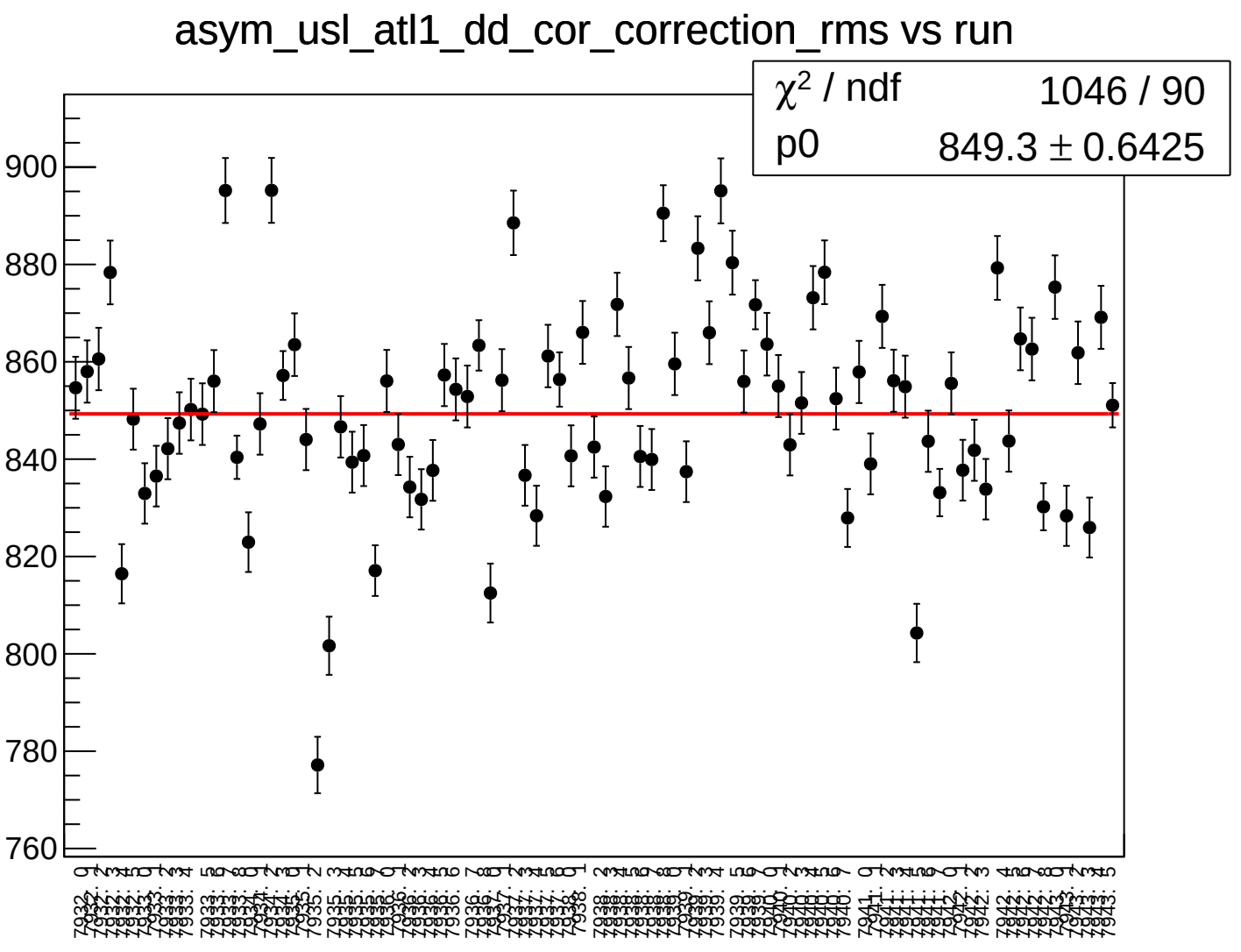

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1046 / 90
p0 849.3 ± 0.6425
900
880
860
840
820
800
780
760

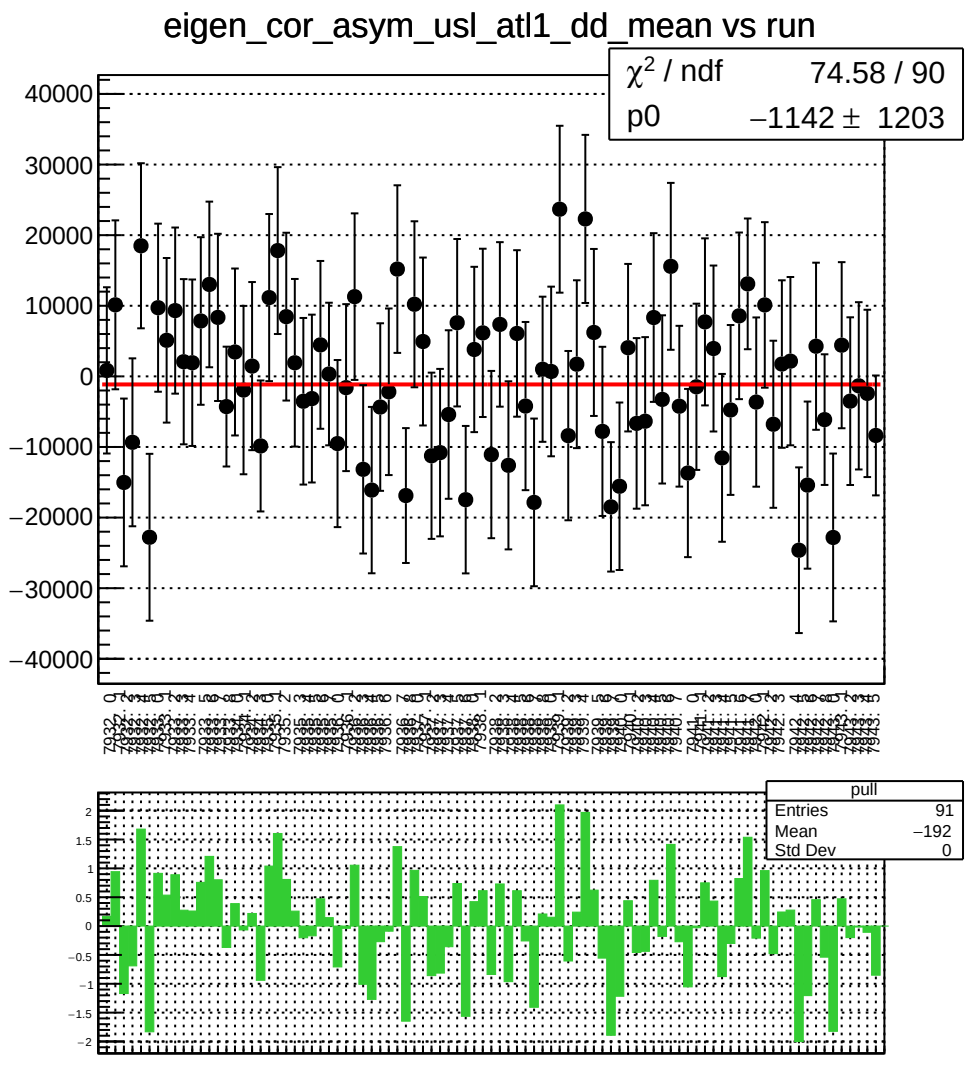

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.58 / 90
p0 −1142 ± 1203
pull
Entries 91
Mean −192
Std Dev 0

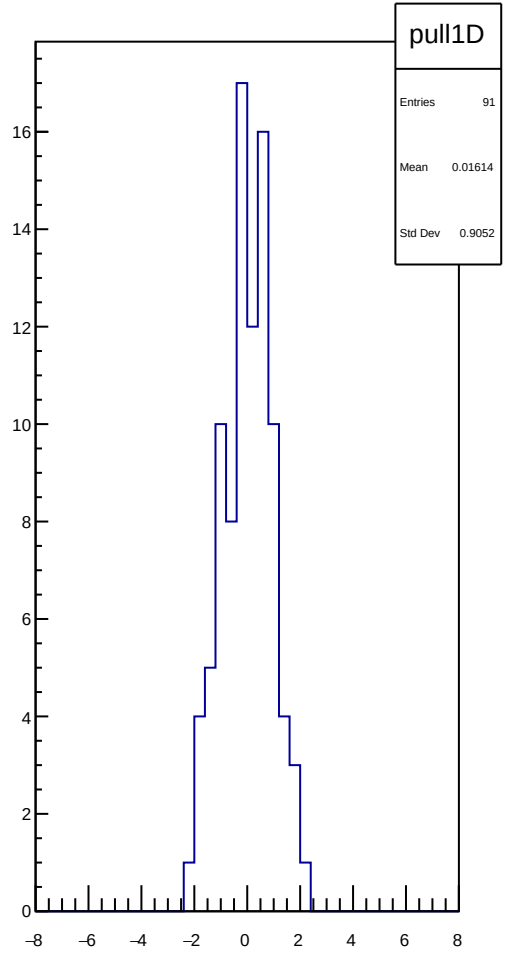

pull1D
Entries 91
Mean 0.01614
Std Dev 0.9052

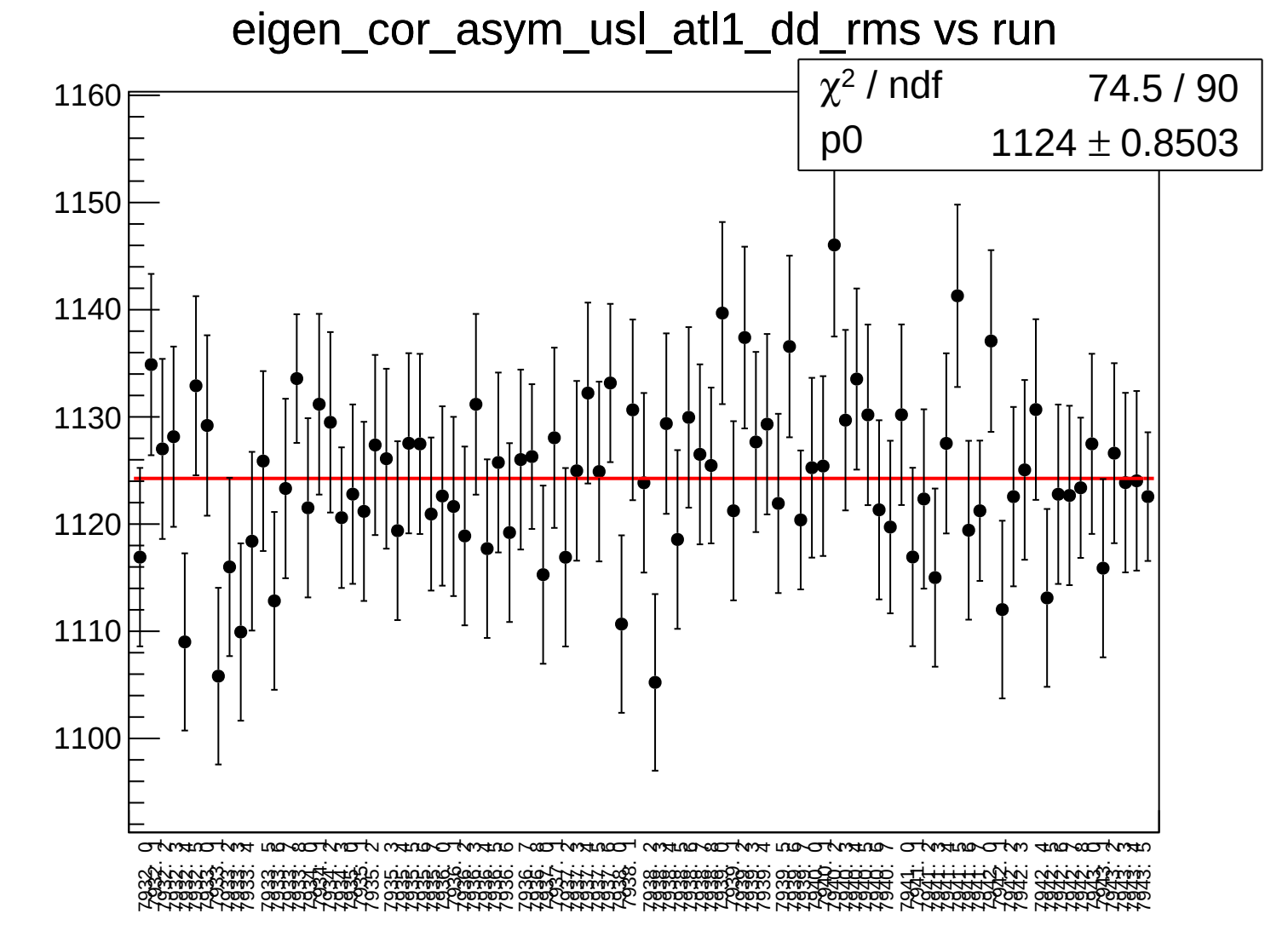

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 74.5 / 90
p0 1124 ± 0.8503
1160
1150
1140
1130
1120
1110
1100

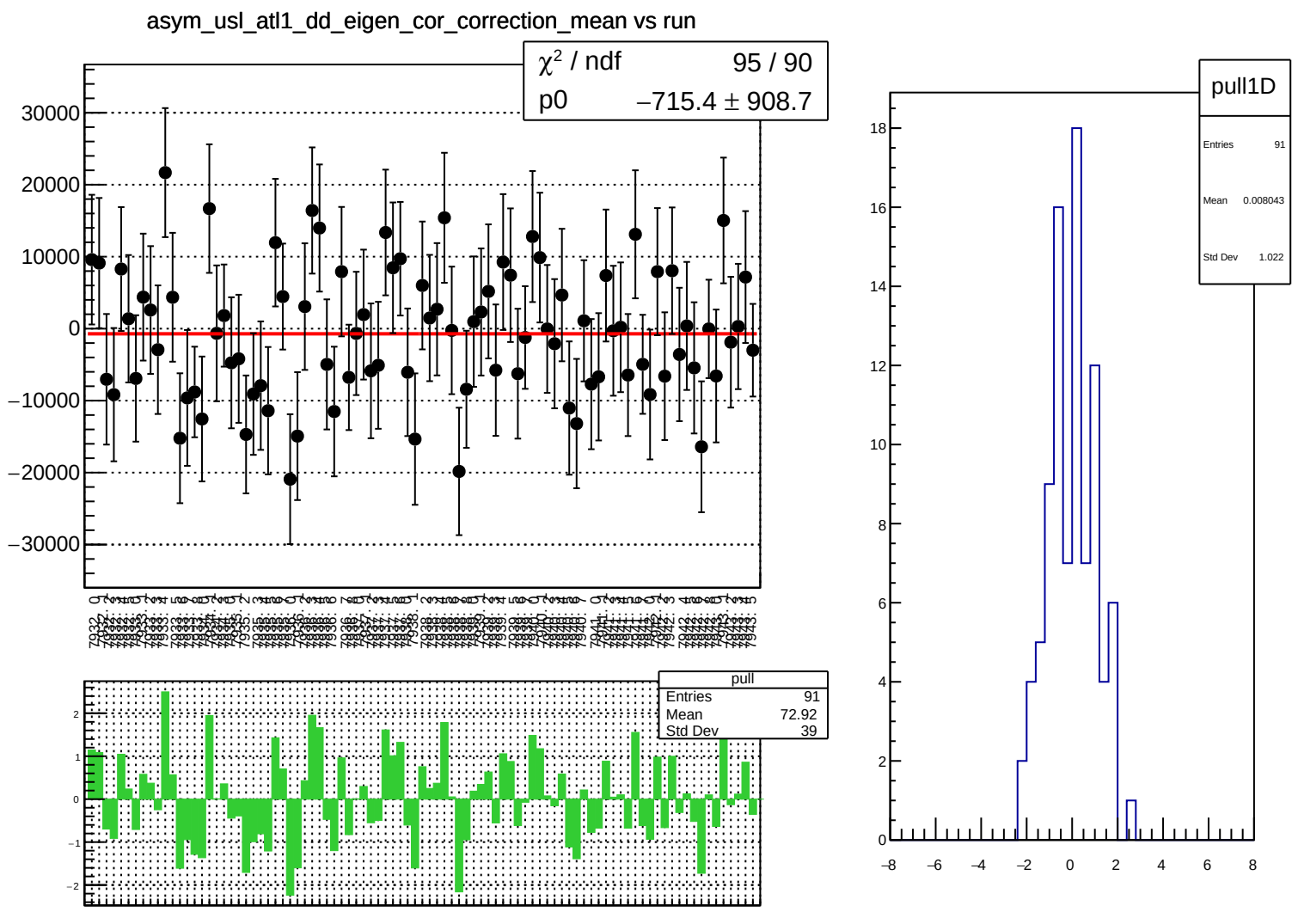

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 95 / 90
p0 −715.4 ± 908.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 72.92
Std Dev 39
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.008043
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

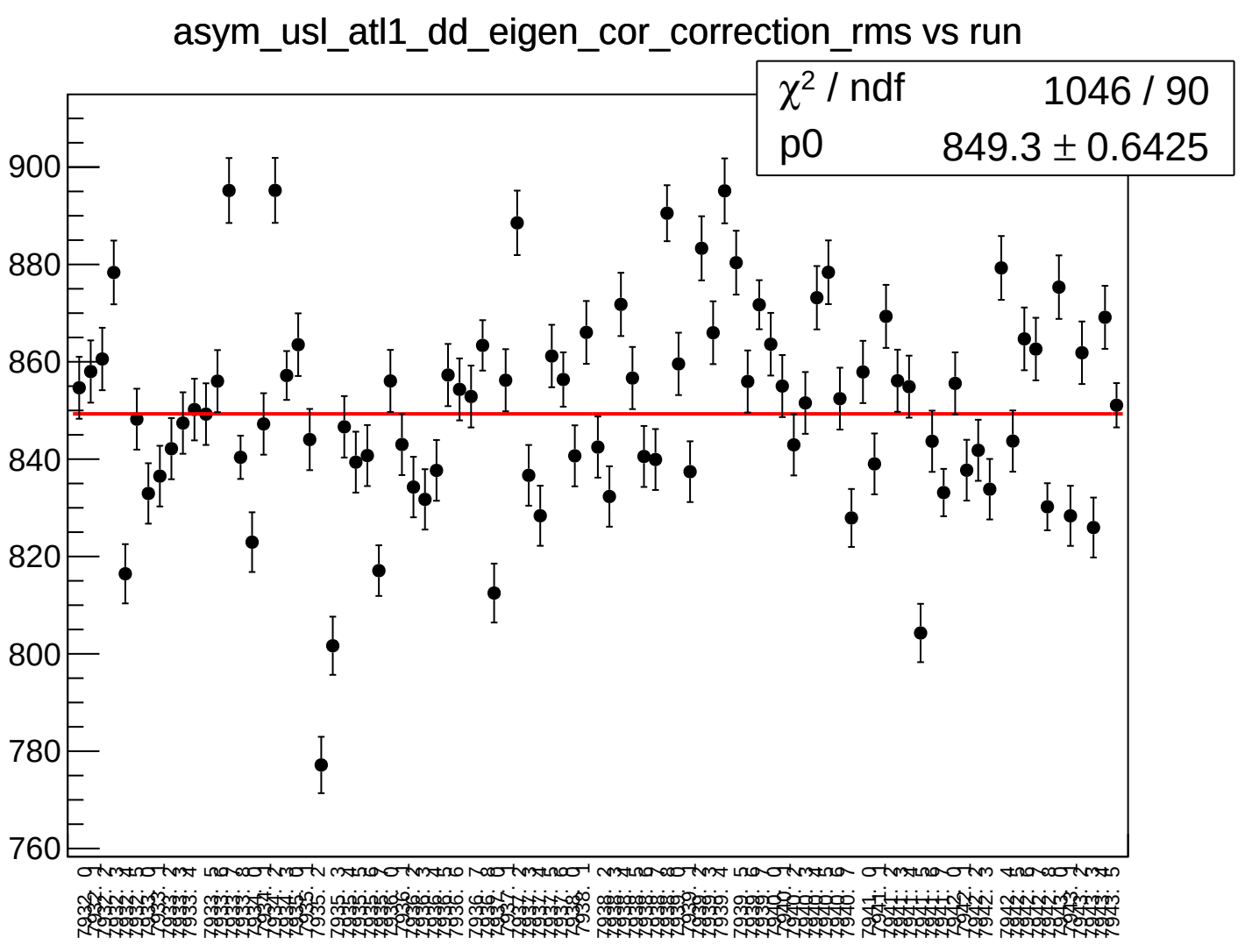

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1046 / 90
p0 849.3 ± 0.6425
900
880
860
840
820
800
780
760

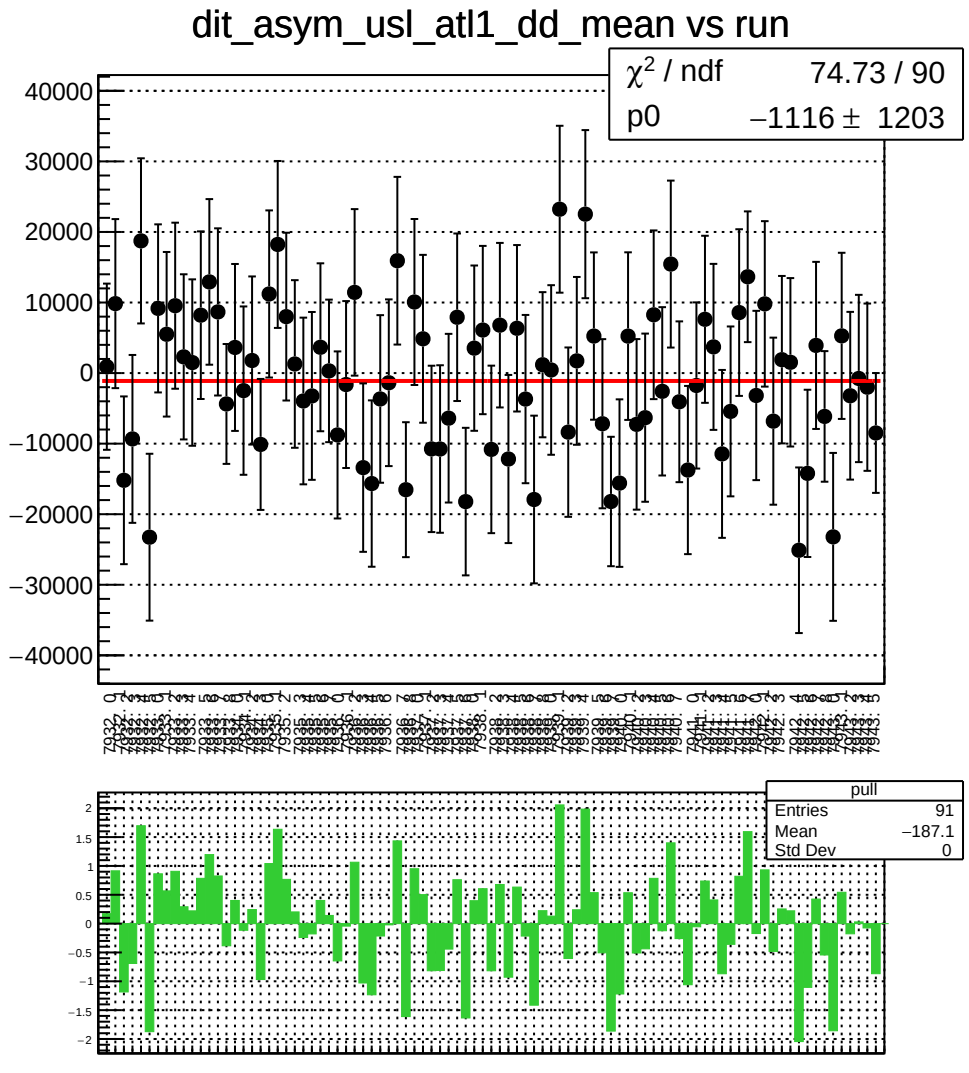

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.58 / 90
p0 −1142 ± 1203
pull
Entries 91
Mean −192
Std Dev 0

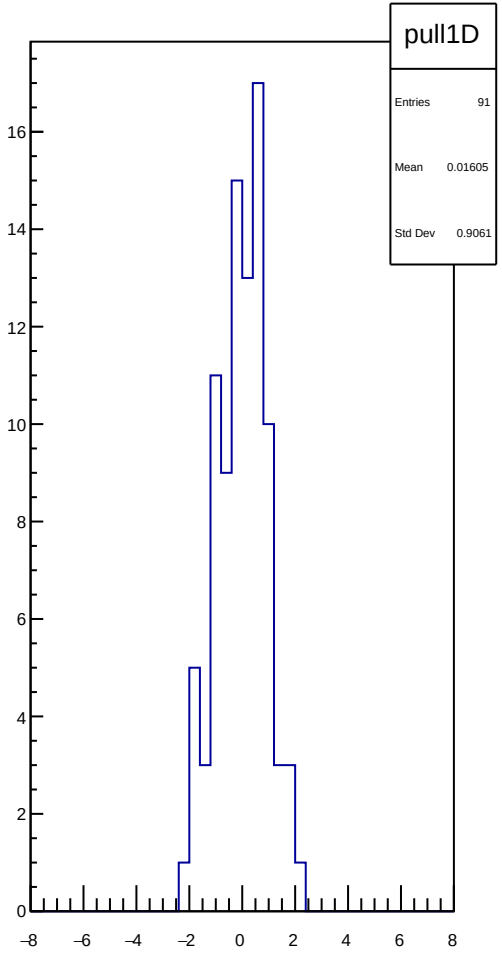

pull1D
Entries 91
Mean 0.01614
Std Dev 0.9052

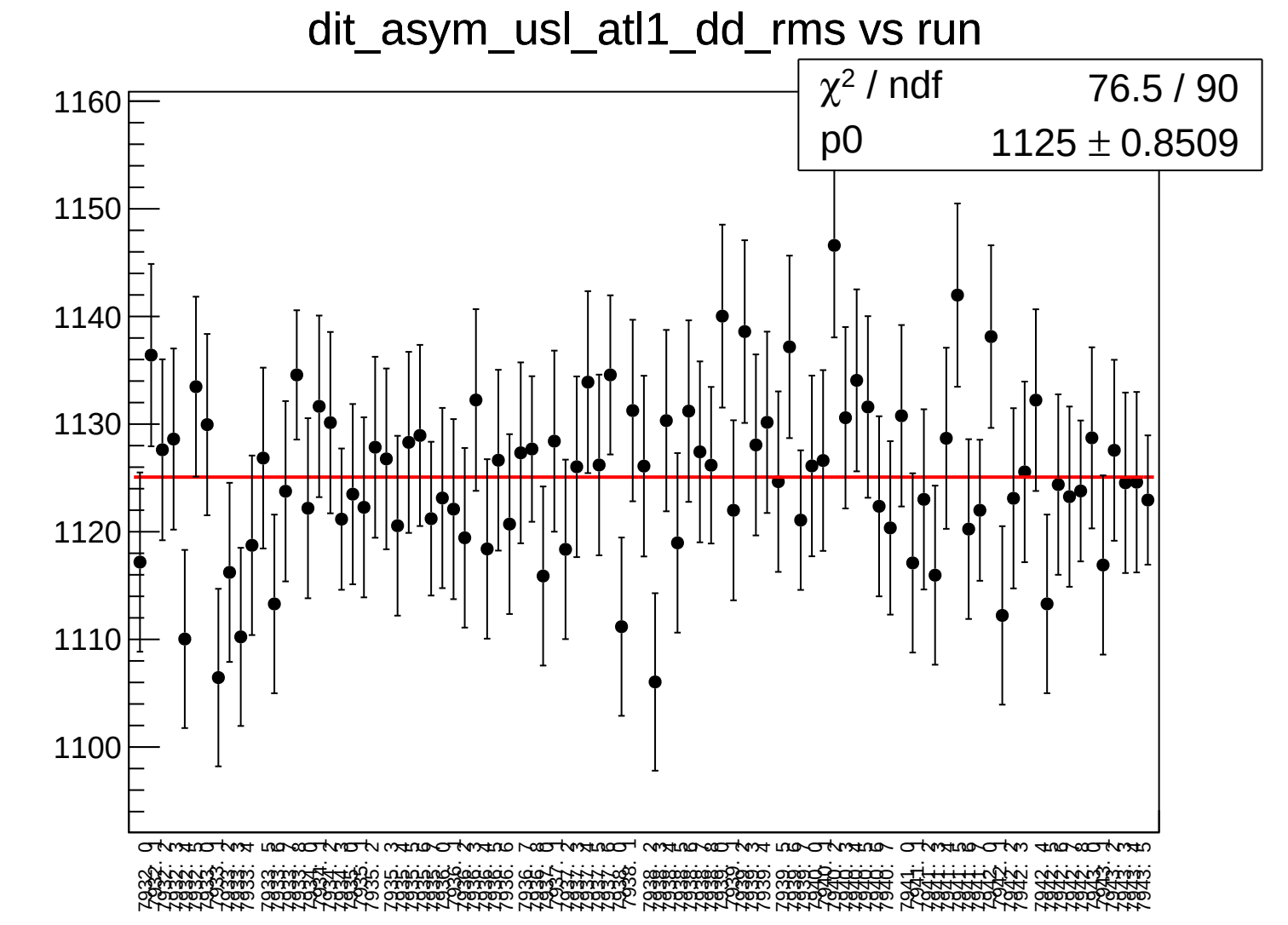

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 74.5 / 90
p0 1124 ± 0.8503
1160
1150
1140
1130
1120
1110
1100

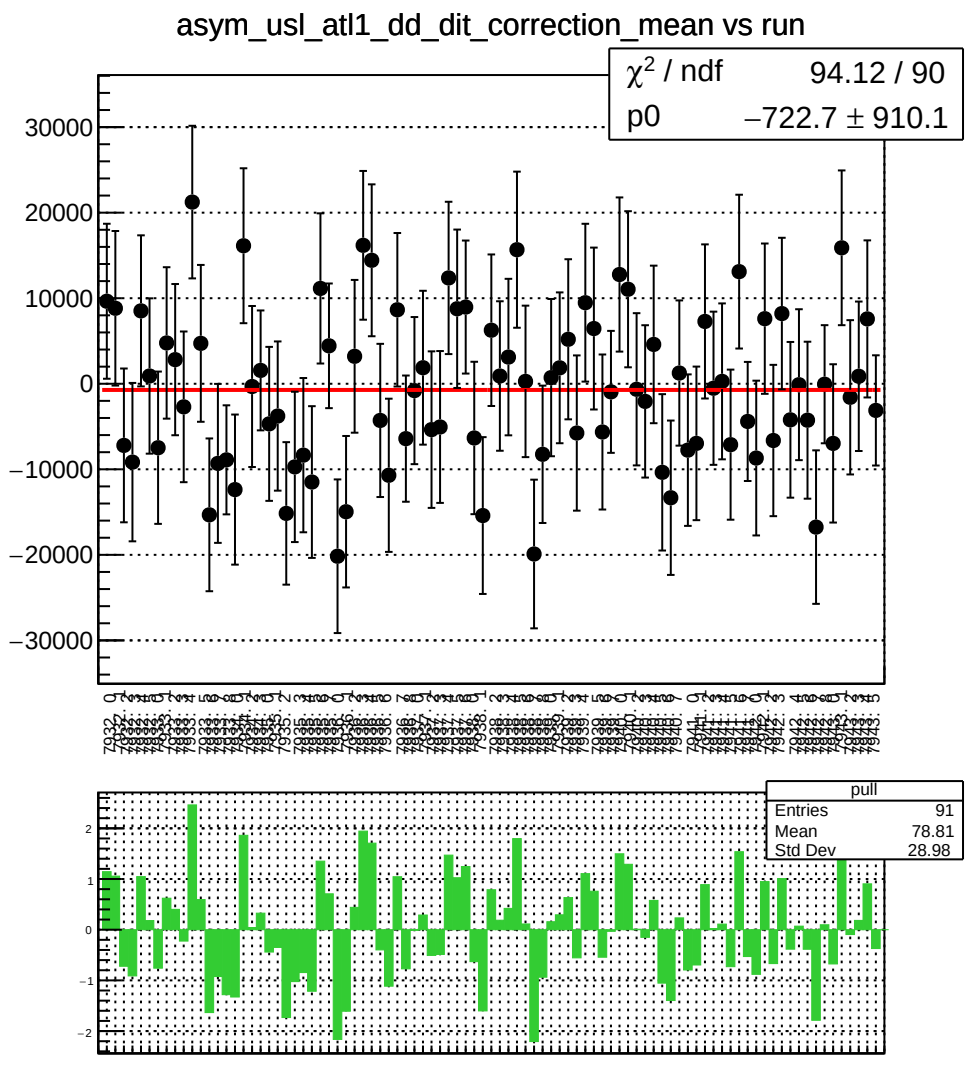

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 95 / 90
p0 −715.4 ± 908.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 72.92
Std Dev 39
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.008043
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

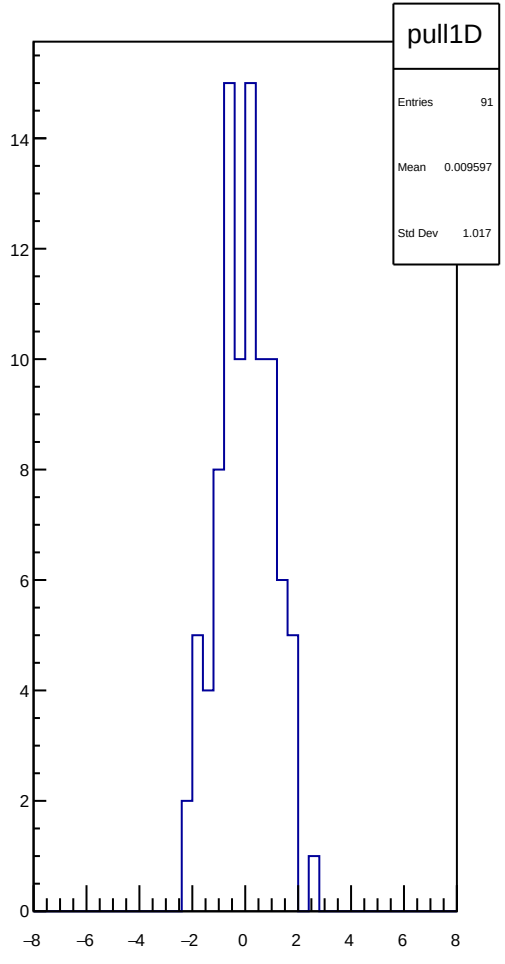

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1046 / 90
p0 849.3 ± 0.6425
900
880
860
840
820
800
780
760

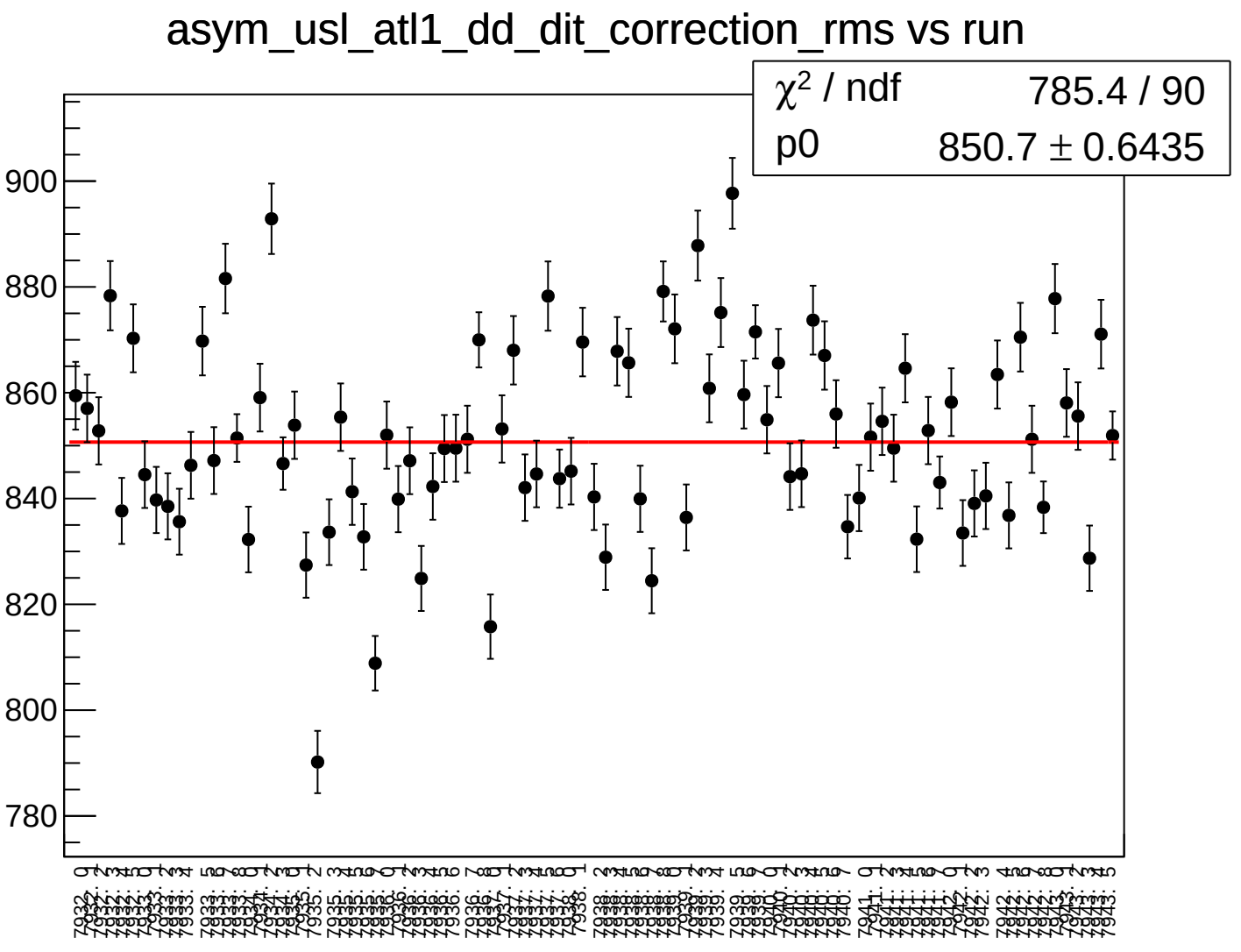

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.73 / 90
p0 −1116 ± 1203
pull
Entries 91
Mean −187.1
Std Dev 0

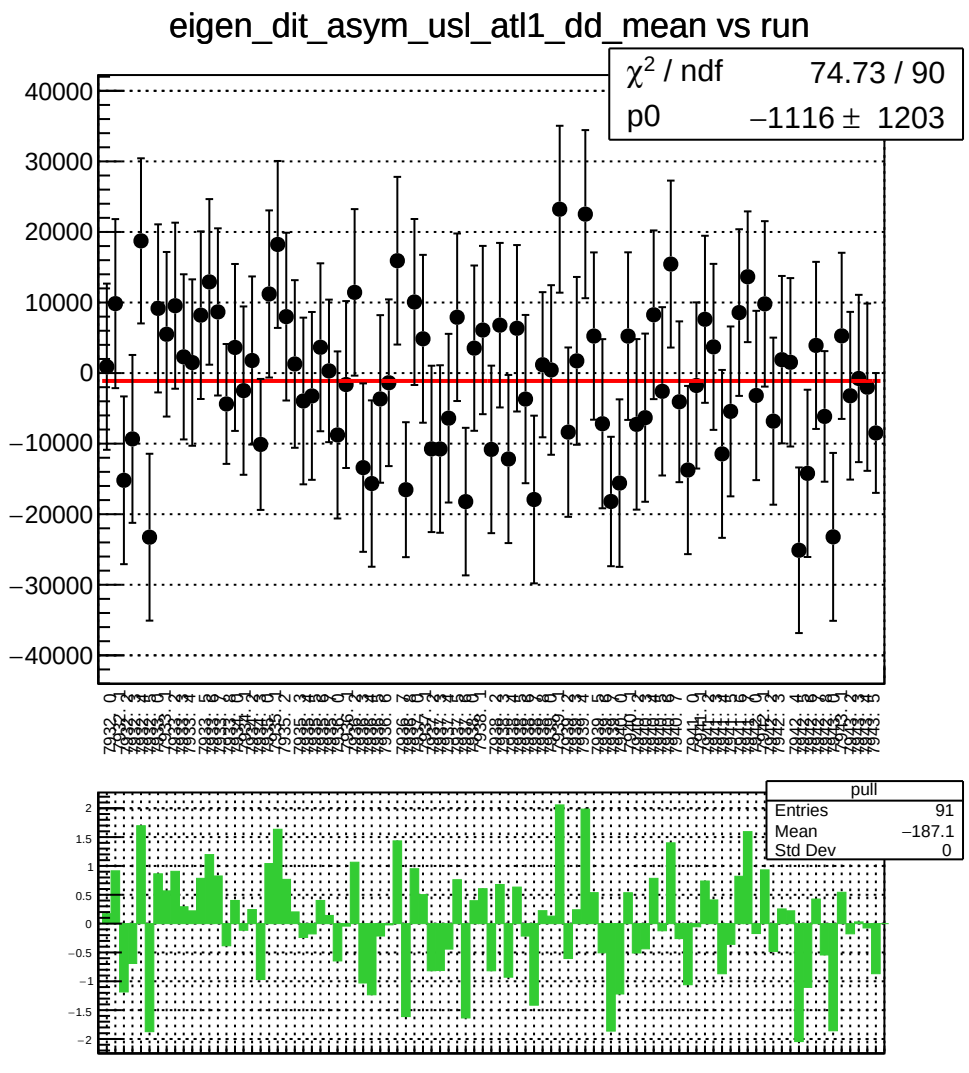

pull1D
Entries 91
Mean 0.01605
Std Dev 0.9061

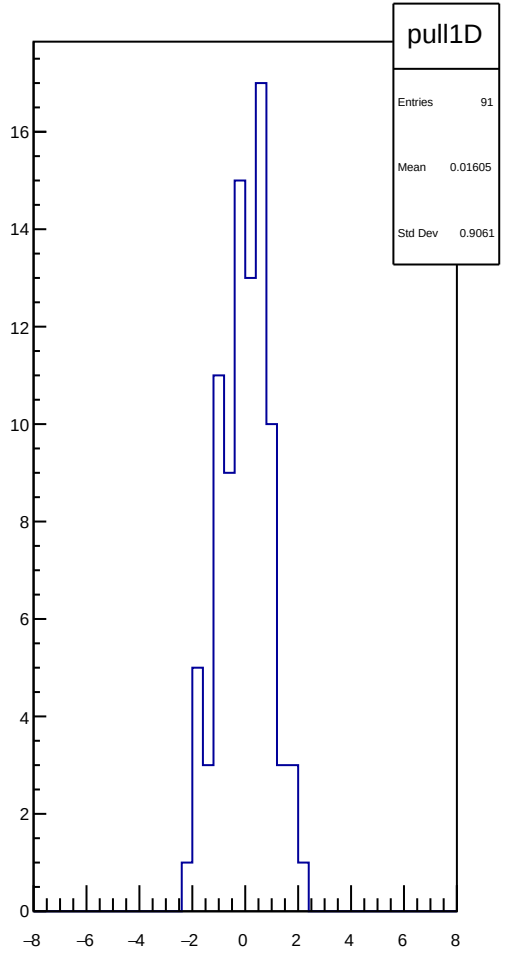

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 76.5 / 90
p0 1125 ± 0.8509
1160
1150
1140
1130
1120
1110
1100

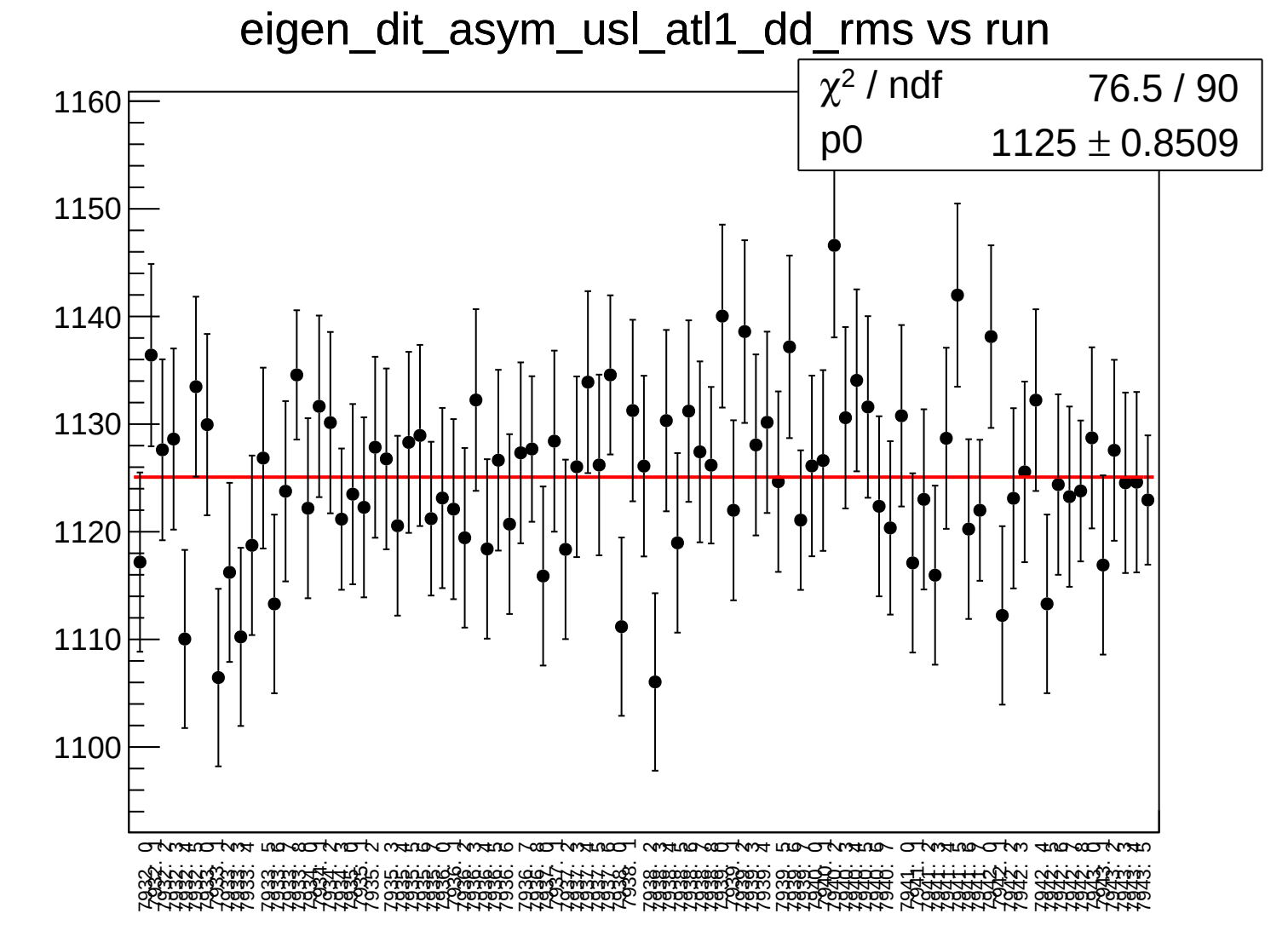

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 94.12 / 90
p0 −722.7 ± 910.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 78.81
Std Dev 28.98
2
1
0
−1
−2

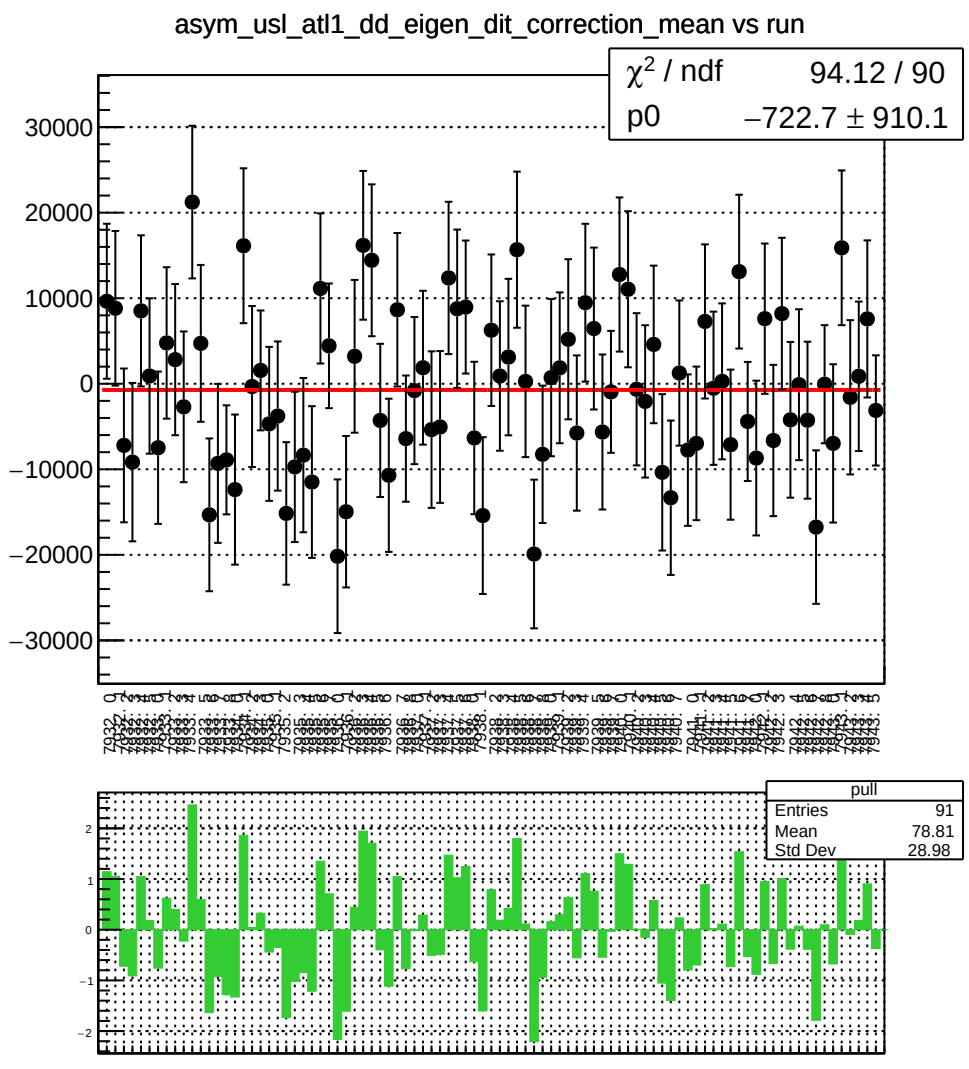

pull1D
Entries 91
Mean 0.009597
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

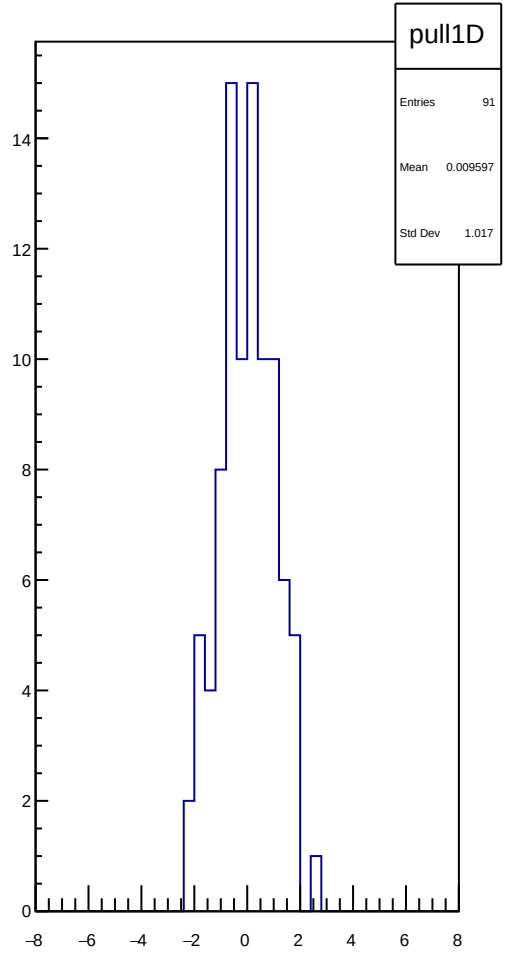

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 785.4 / 90
p0 850.7 ± 0.6435
900
880
860
840
820
800
780

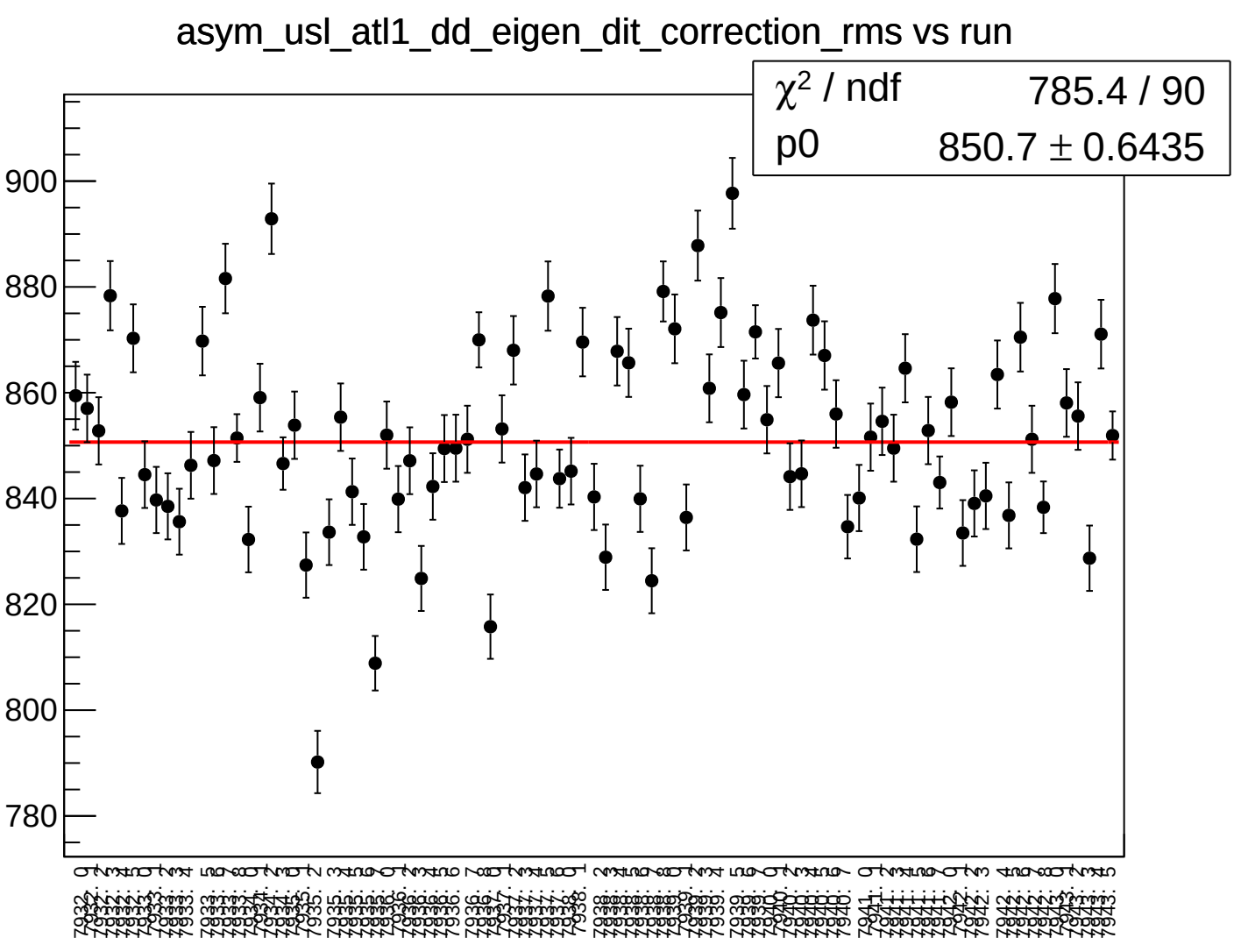

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.73 / 90
p0 −1116 ± 1203
pull
Entries 91
Mean −187.1
Std Dev 0

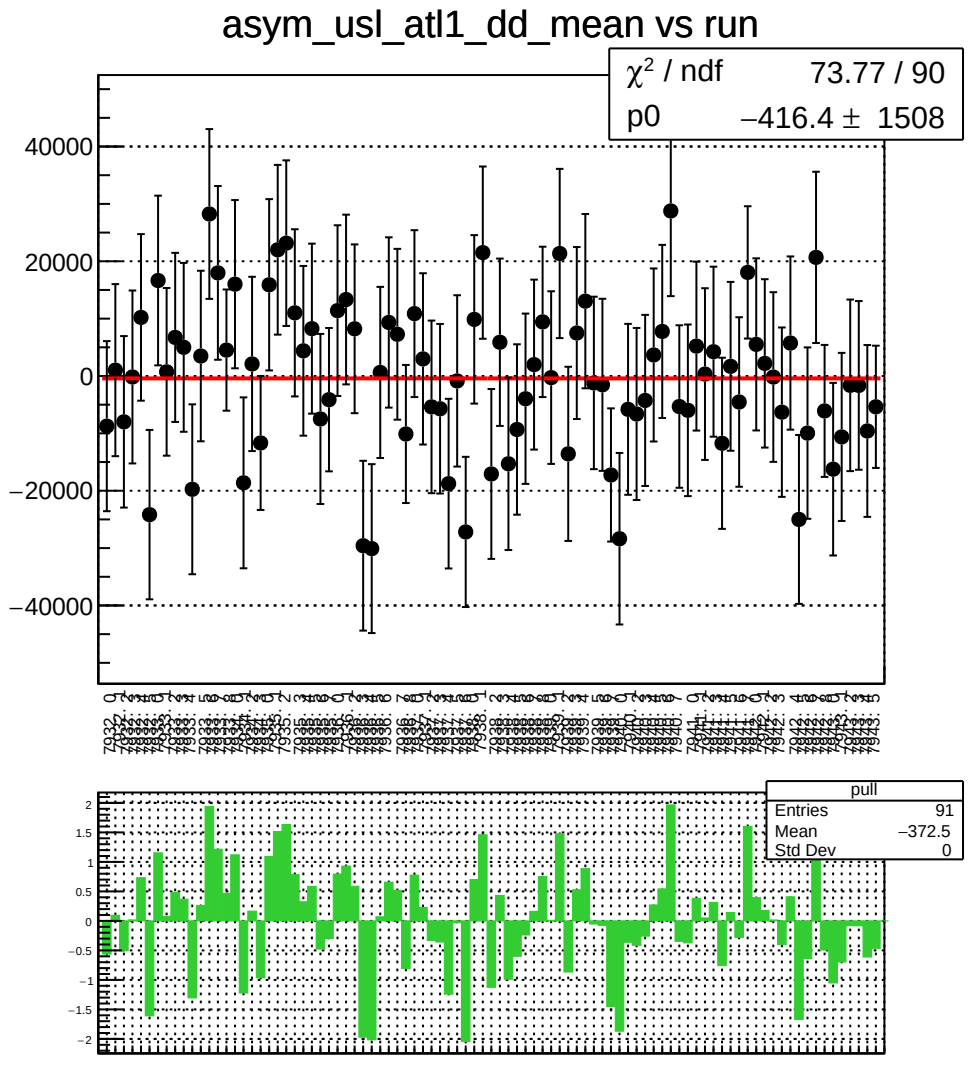

pull1D
Entries 91
Mean 0.01605
Std Dev 0.9061

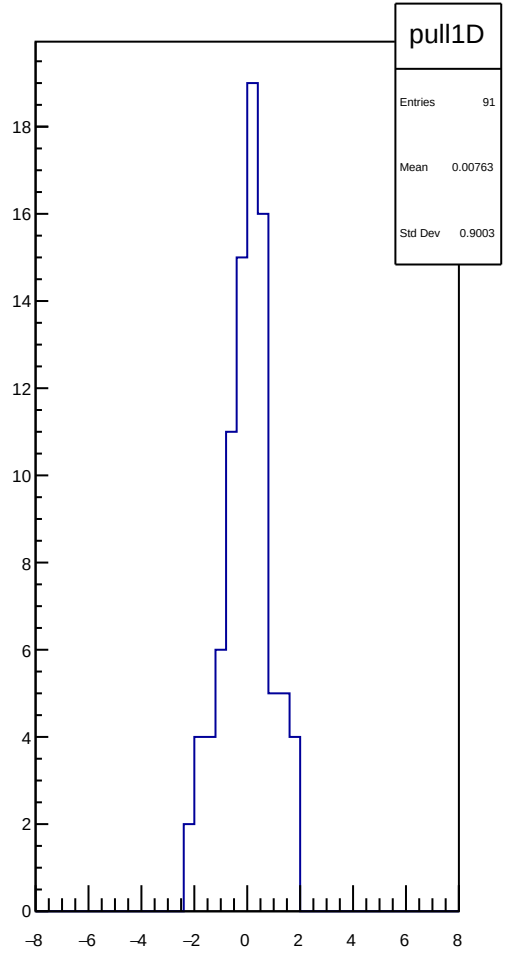

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 76.5 / 90
p0 1125 ± 0.8509
1160
1150
1140
1130
1120
1110
1100

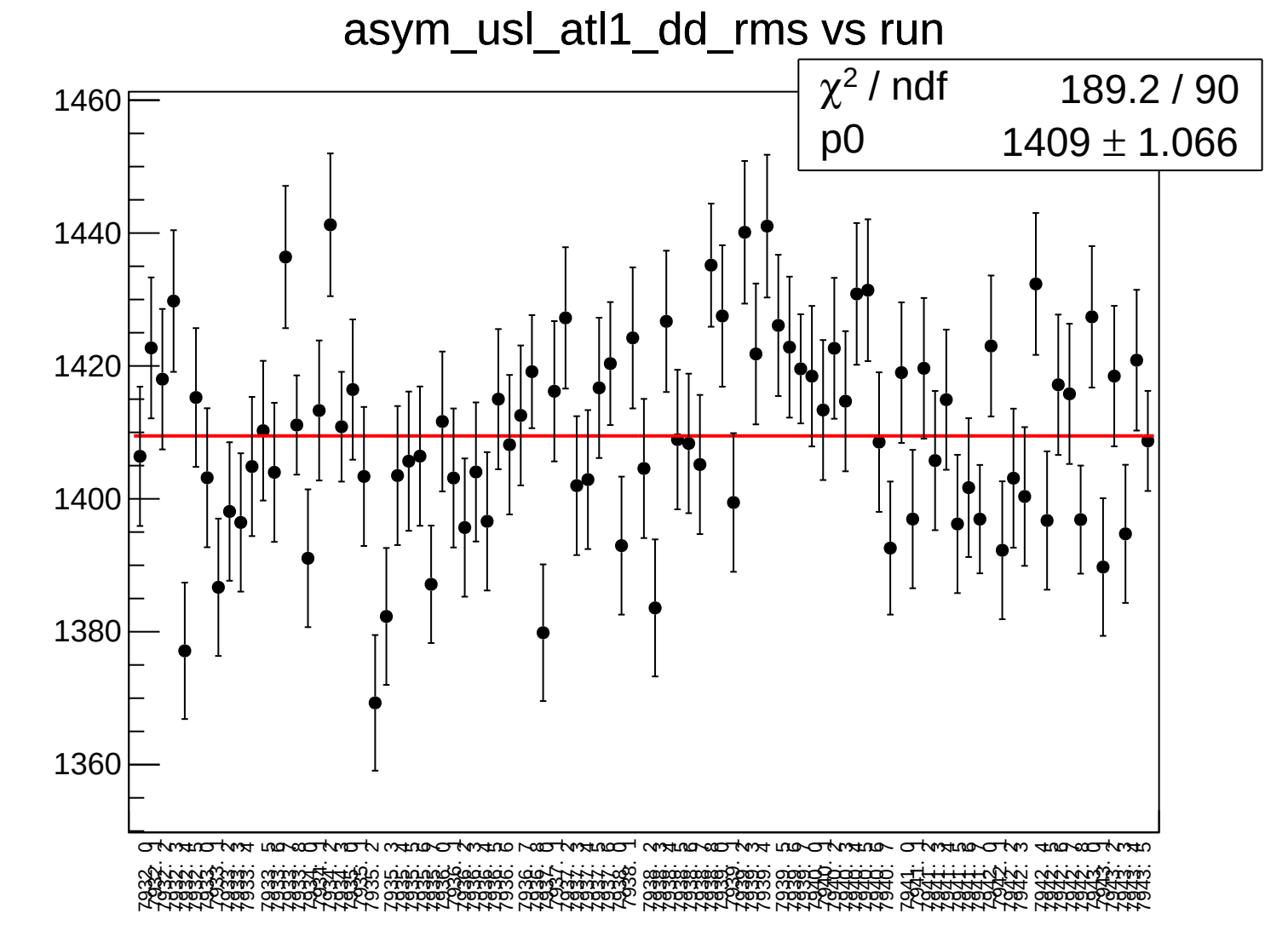

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.12 / 90
p0 −722.7 ± 910.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 78.81
Std Dev 28.98
2
1
0
−1
−2

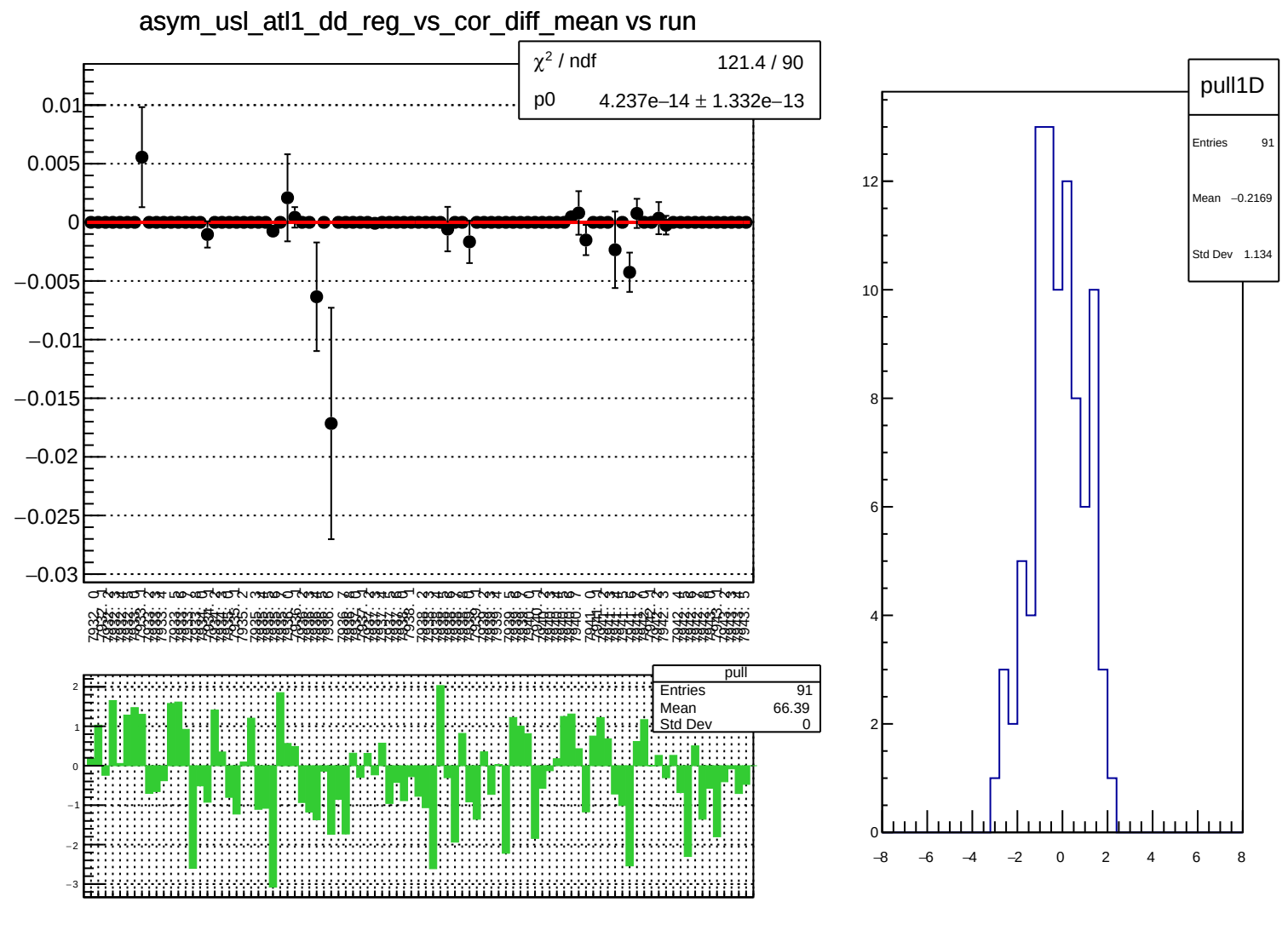

pull1D
Entries 91
Mean 0.009597
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

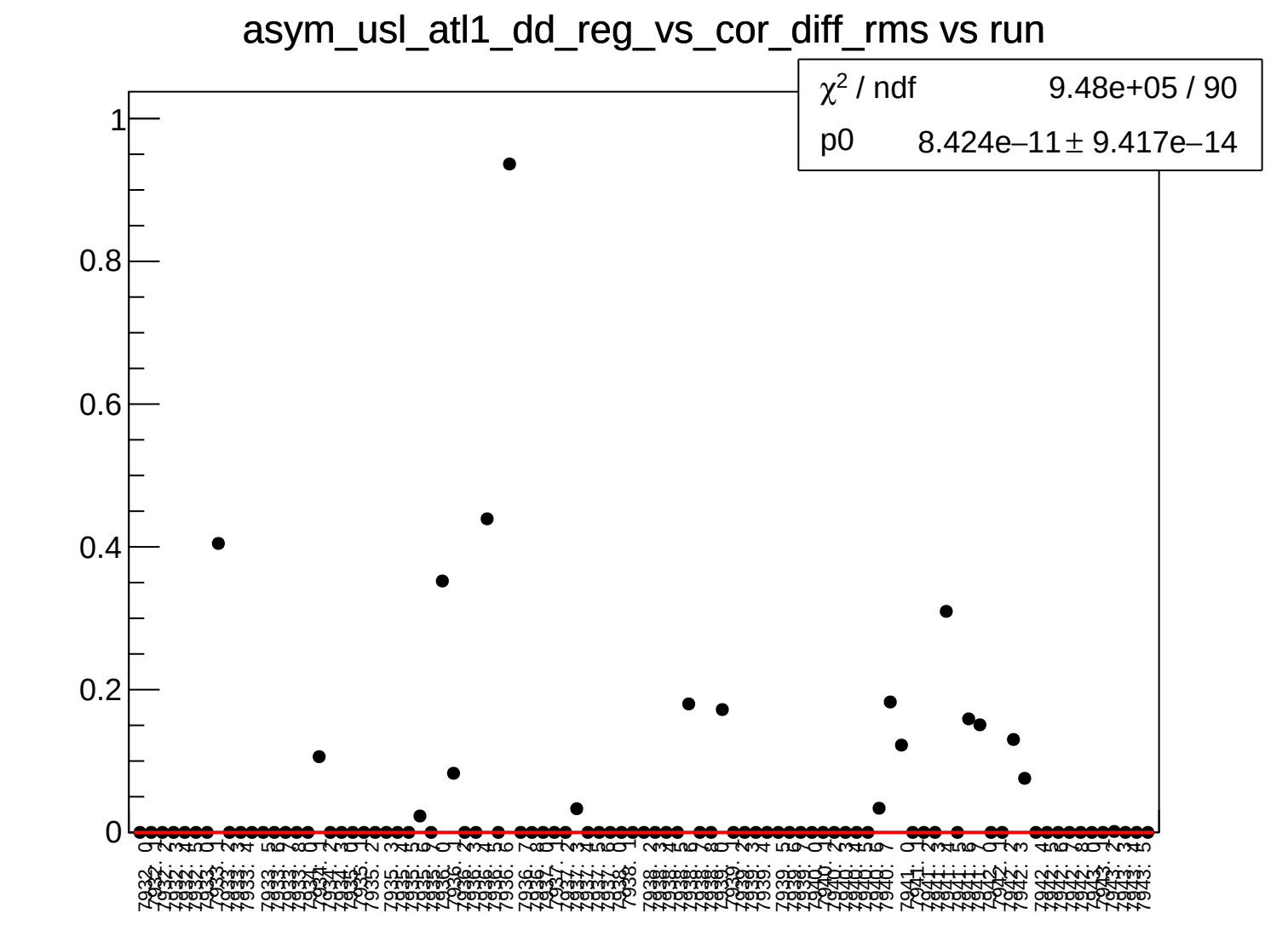

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 785.4 / 90
p0 850.7 ± 0.6435
900
880
860
840
820
800
780

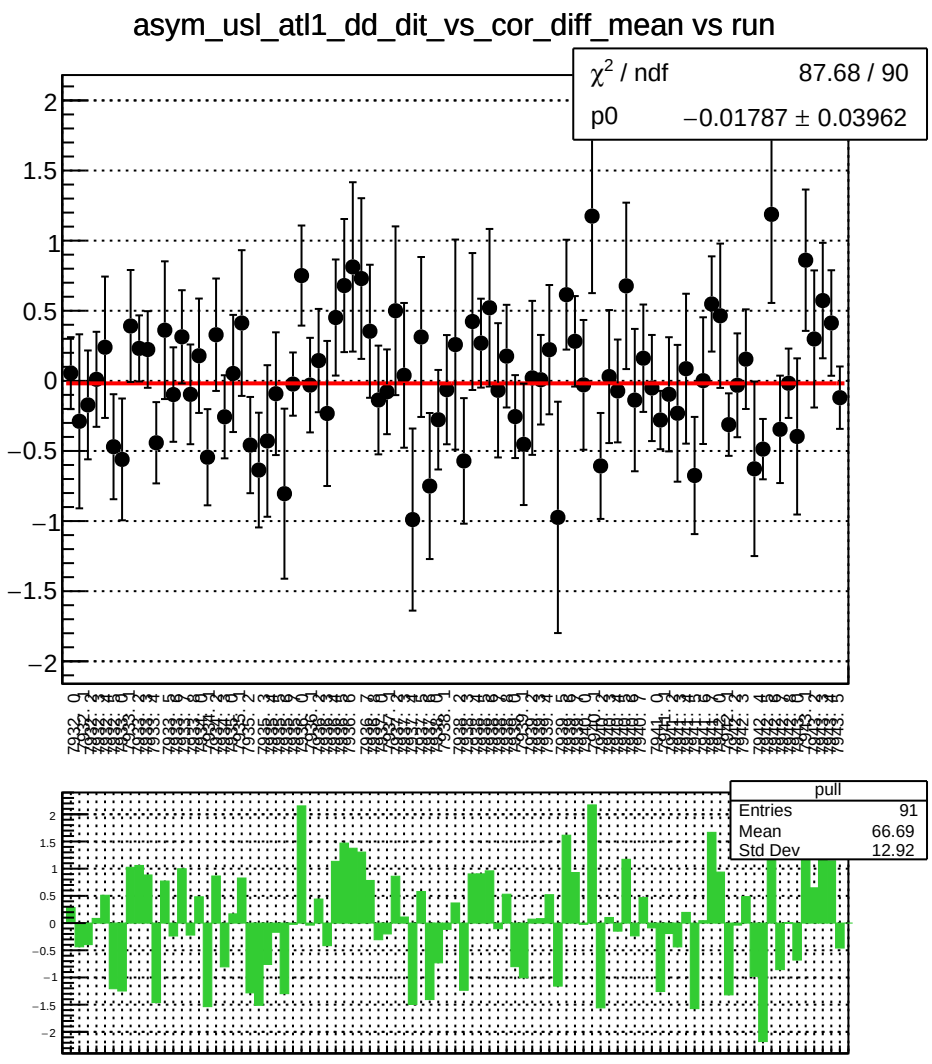

asym_usl_atl1_dd_mean vs run
χ² / ndf 73.77 / 90
p0 −416.4 ± 1508
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −372.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

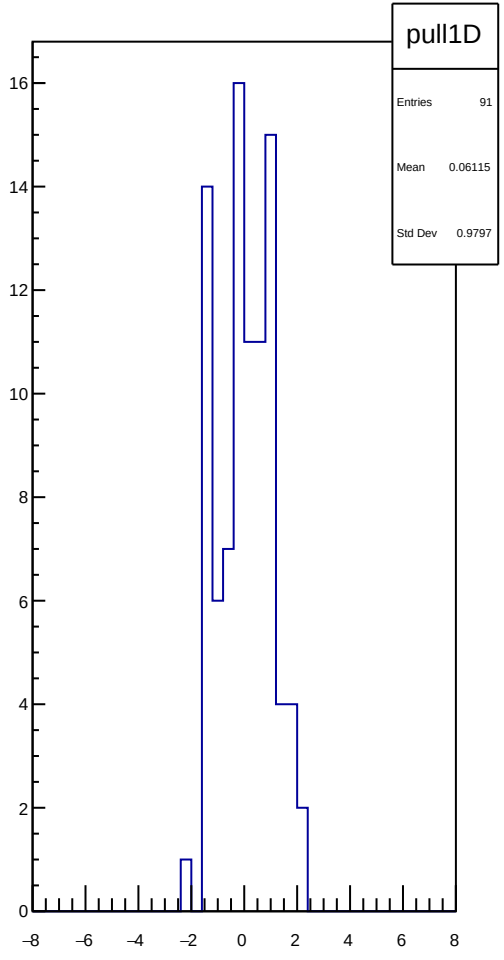

pull1D
Entries 91
Mean 0.00763
Std Dev 0.9003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

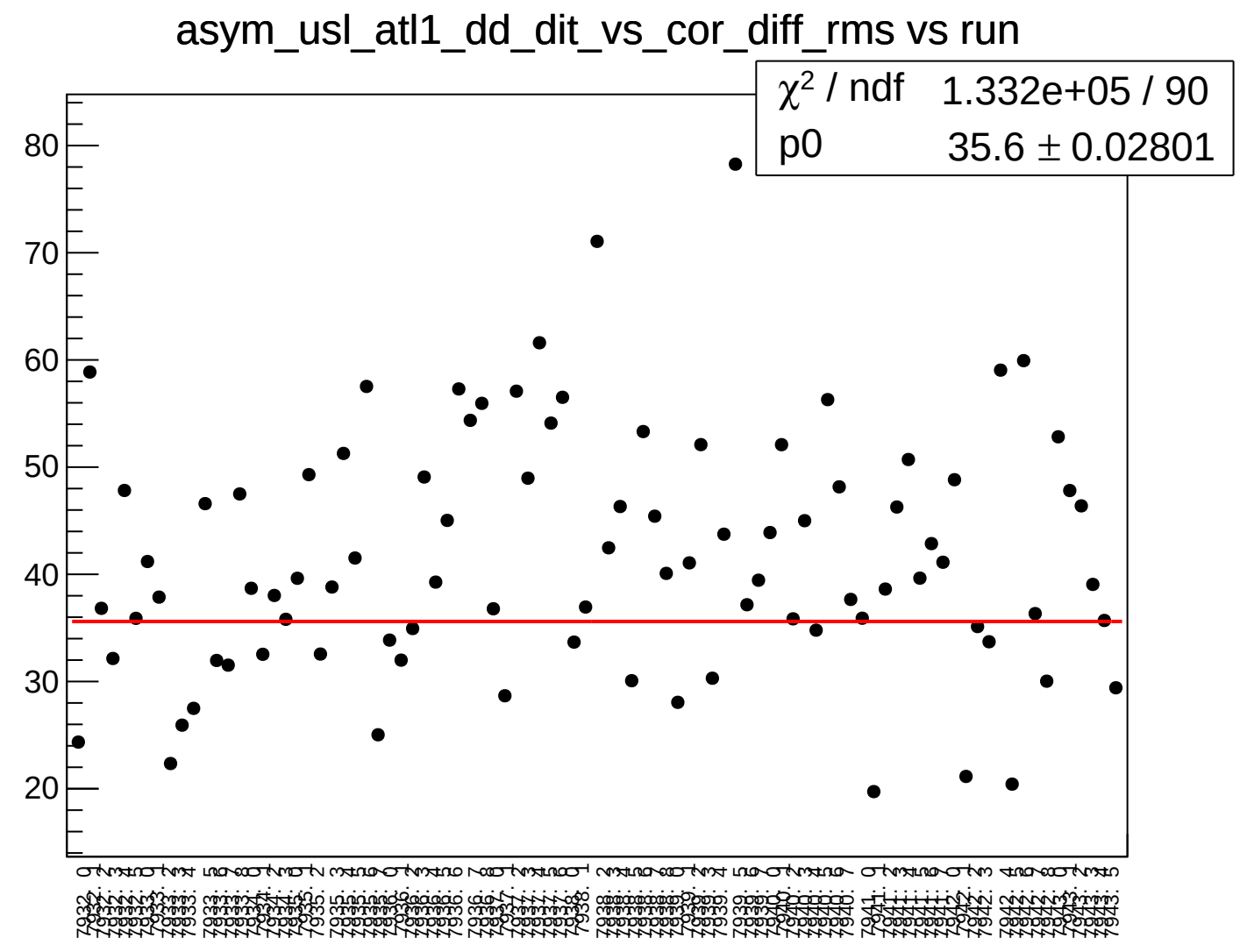

asym_usl_atl1_dd_rms vs run
χ² / ndf 189.2 / 90
p0 1409 ± 1.066
1460
1440
1420
1400
1380
1360

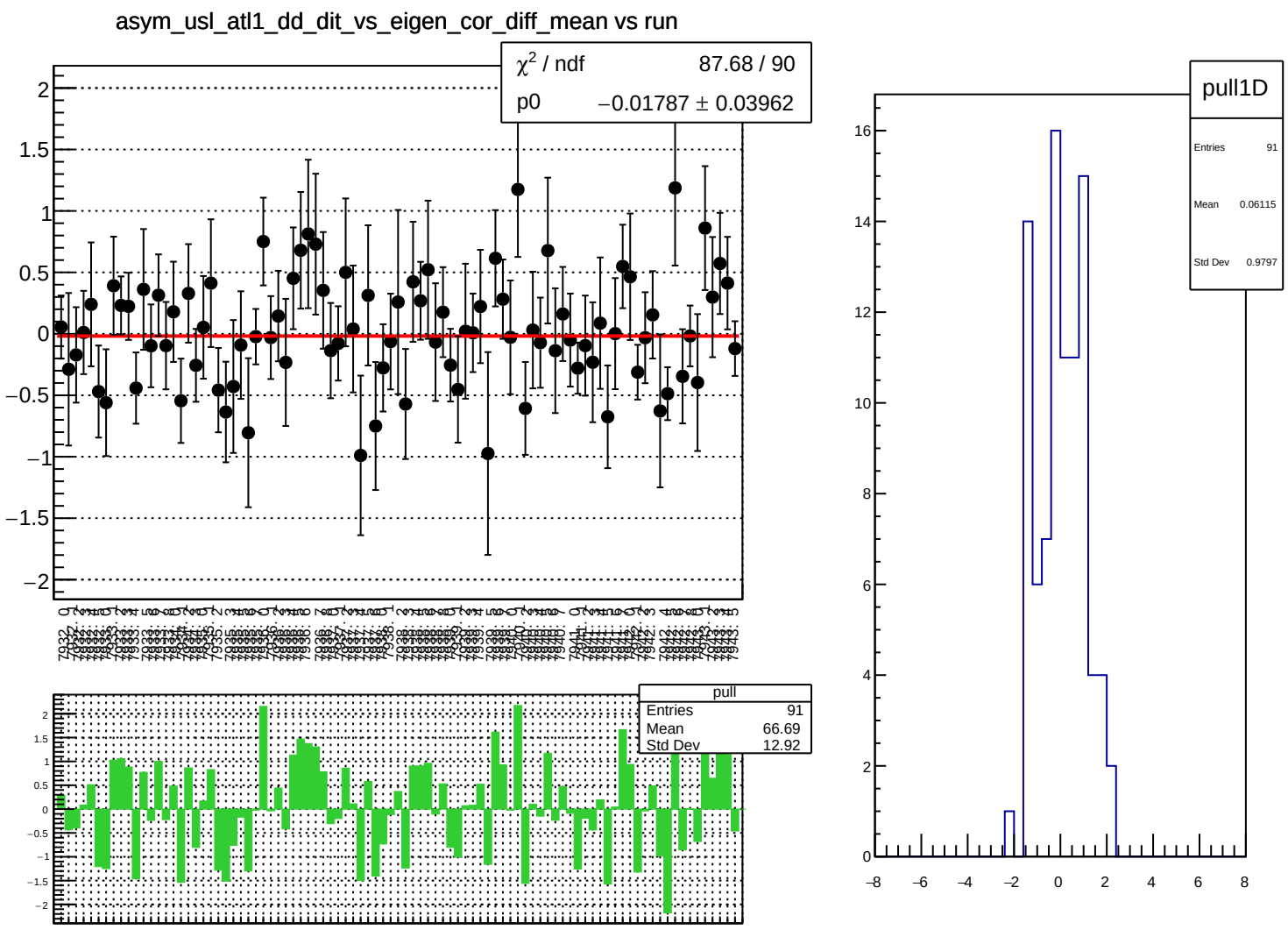

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 121.4 / 90
p0 4.237e−14 ± 1.332e−13
pull
Entries 91
Mean 66.39
Std Dev 0
pull1D
Entries 91
Mean −0.2169
Std Dev 1.134

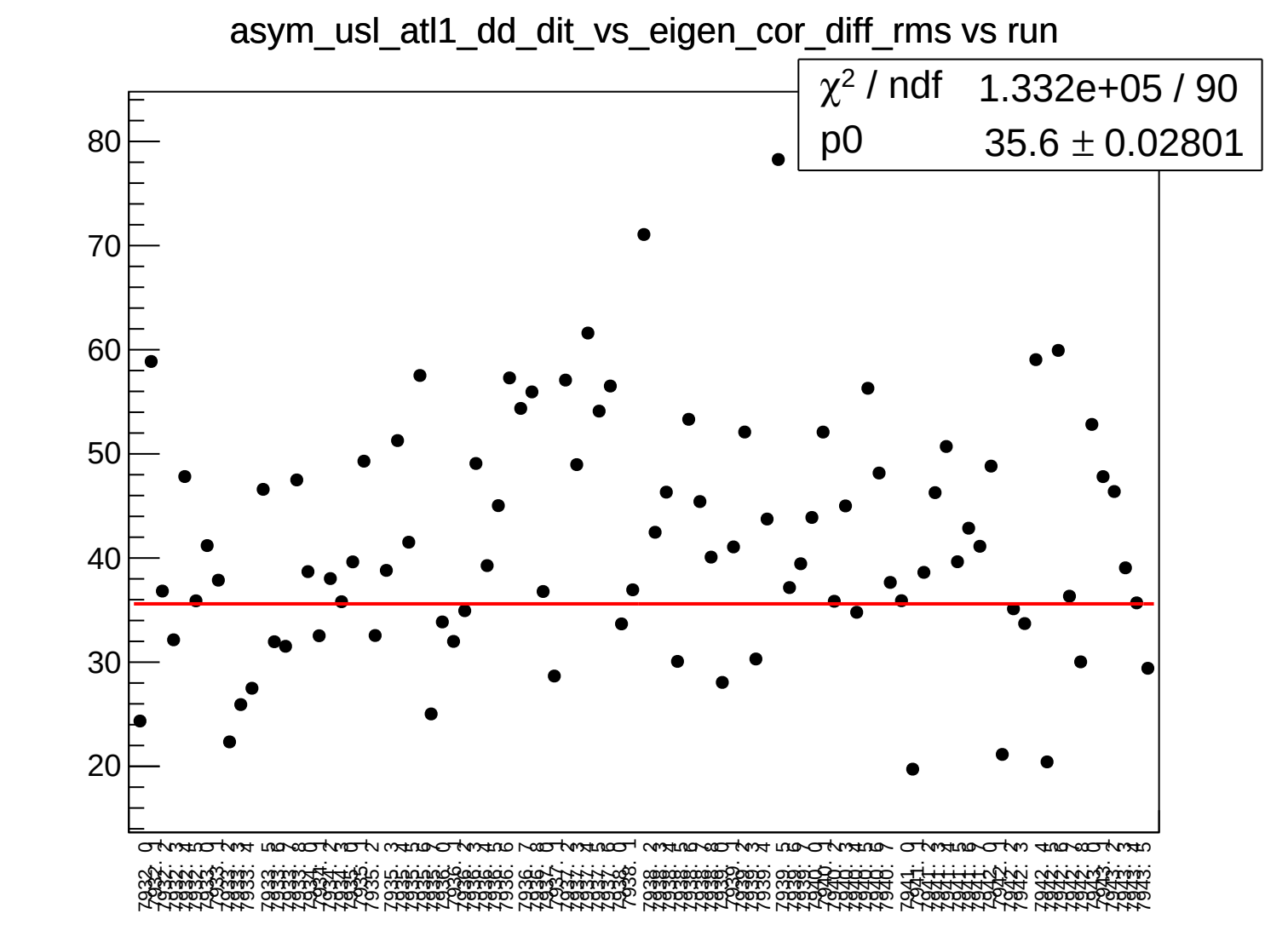

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.48e+05 / 90
p0 8.424e−11 ± 9.417e−14
1
0.8
0.6
0.4
0.2
0

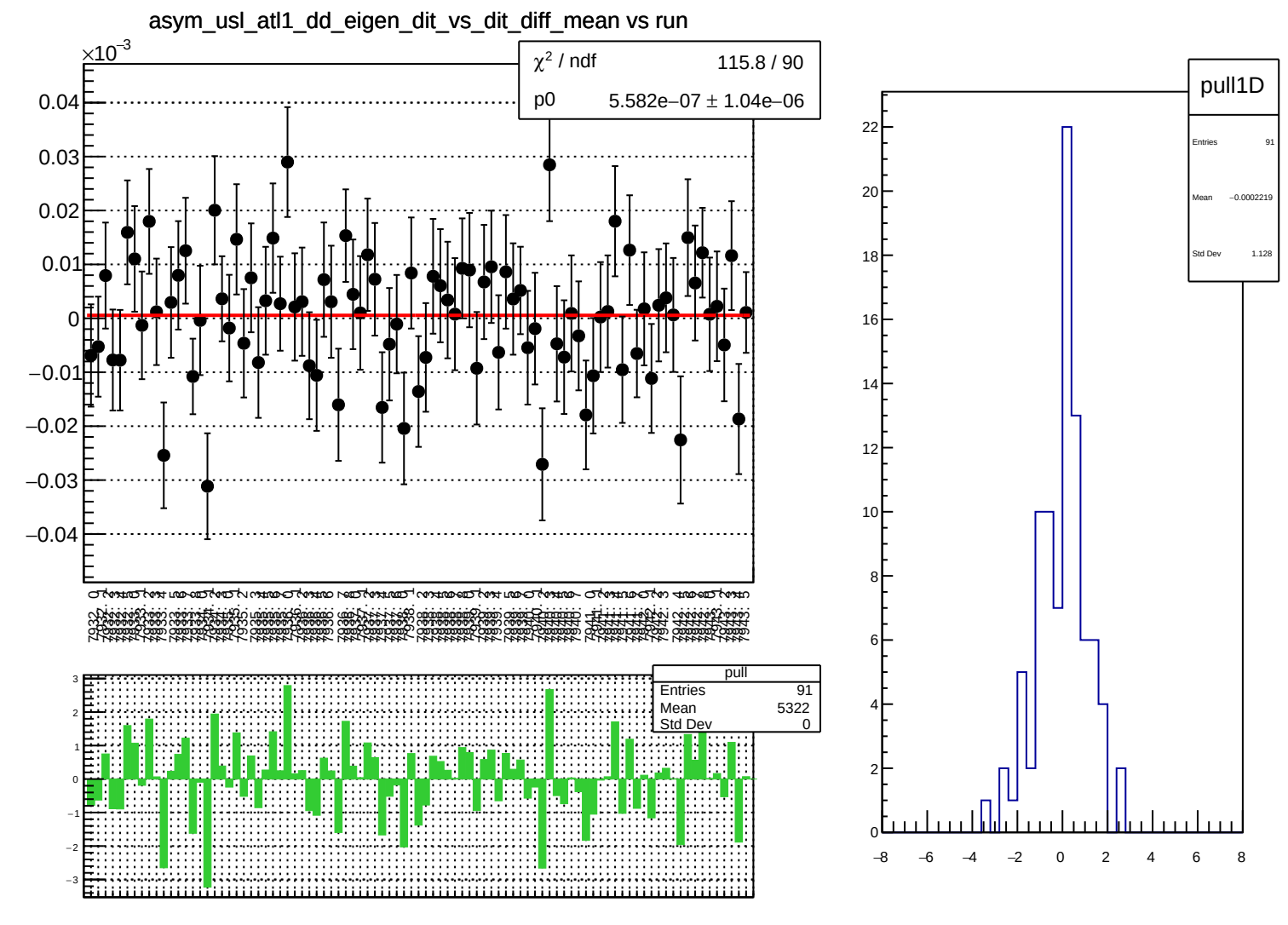

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 90
p0 −0.01787 ± 0.03962
pull
Entries 91
Mean 66.69
Std Dev 12.92

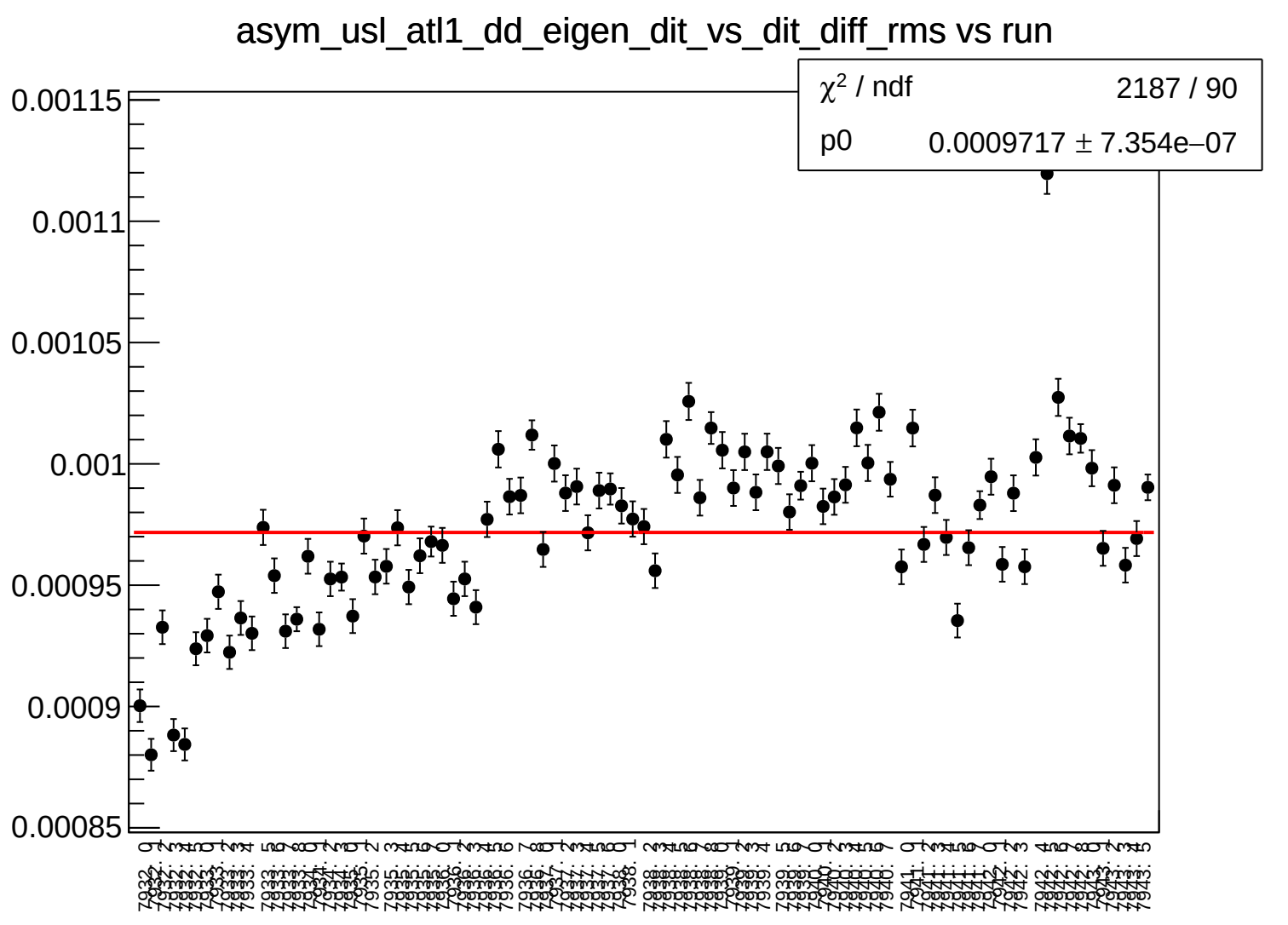

pull1D
Entries 91
Mean 0.06115
Std Dev 0.9797

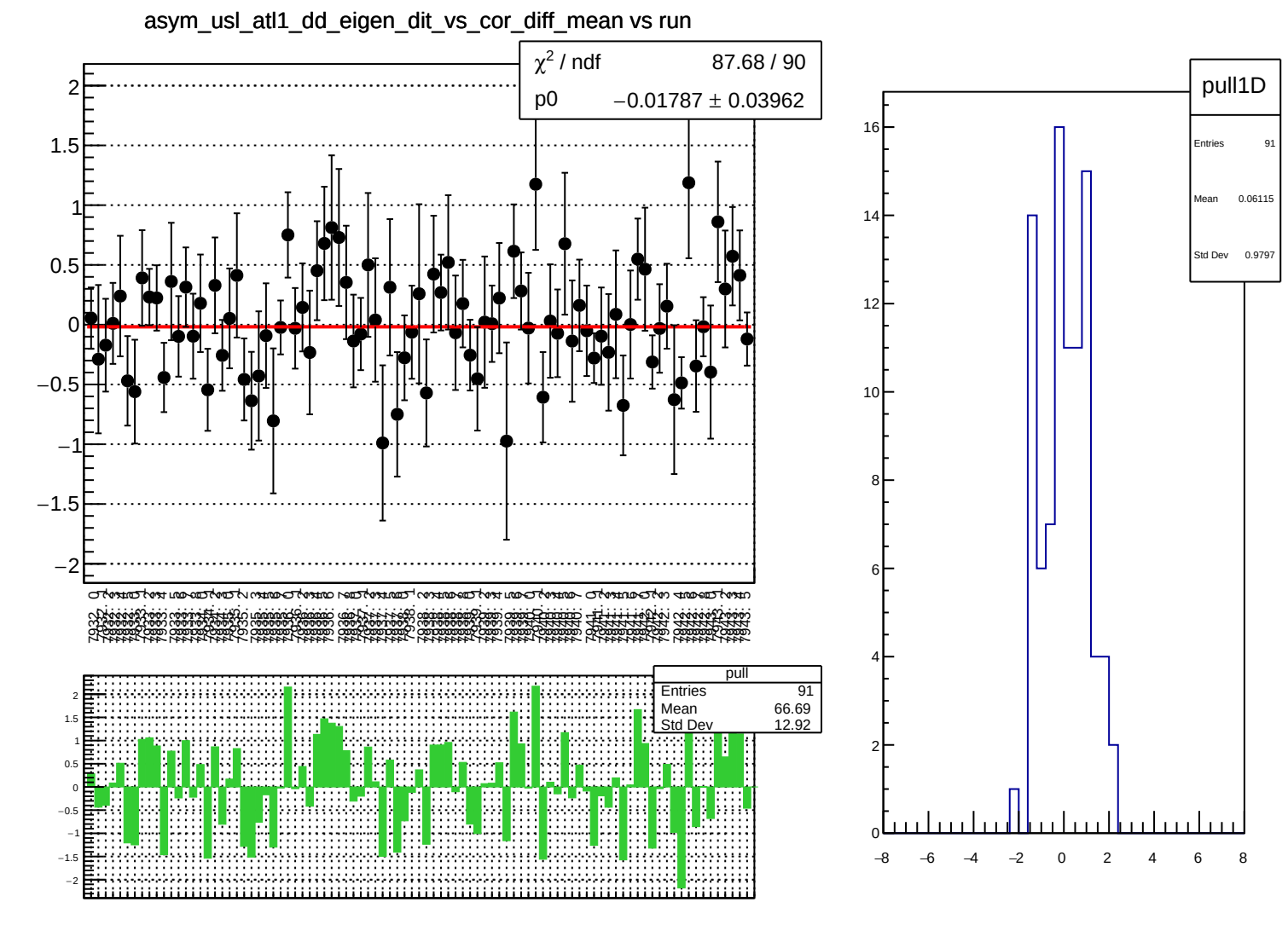

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 90
p0 35.6 ± 0.02801
80
70
60
50
40
30
20

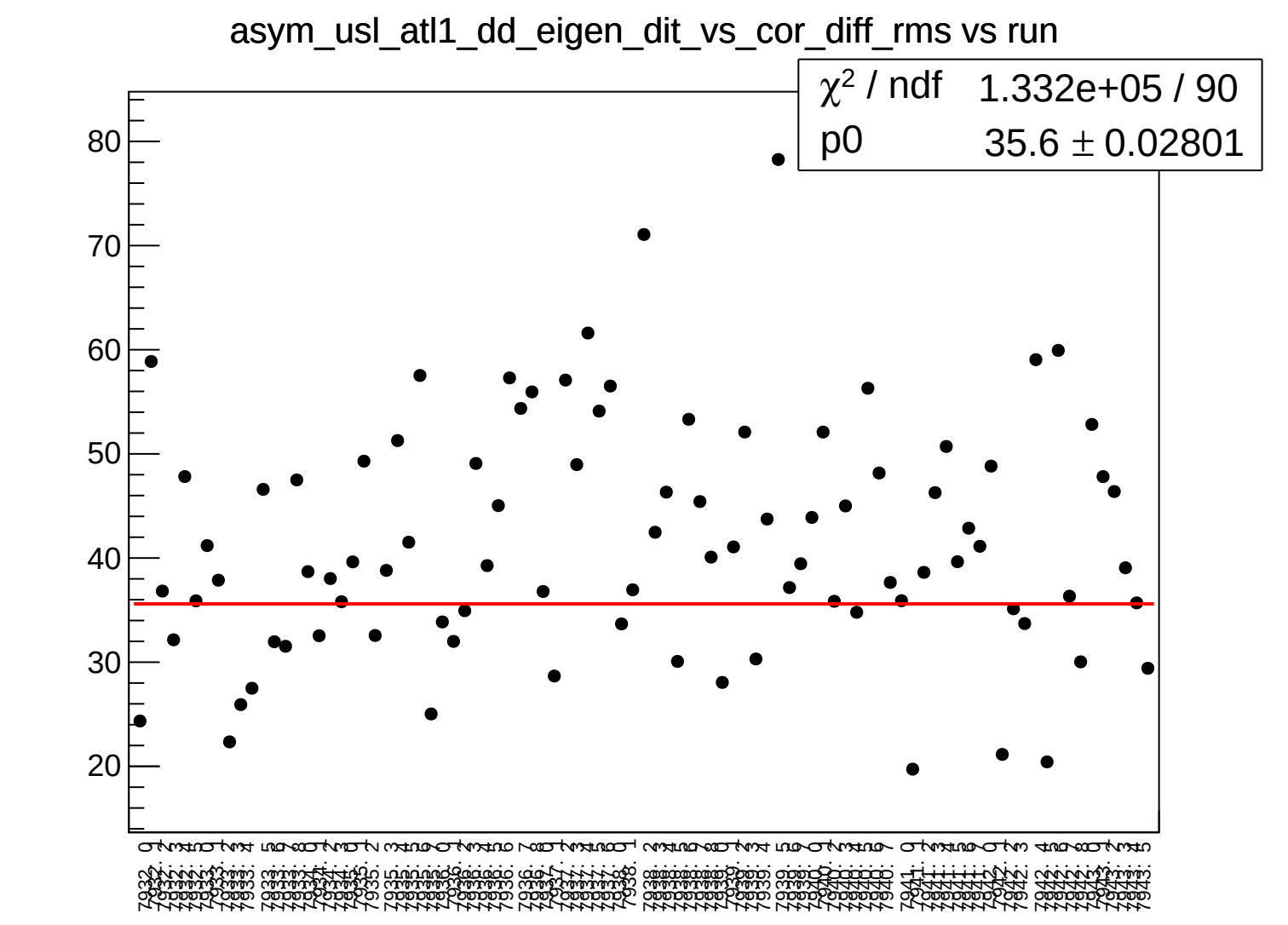

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.68 / 90
p0 −0.01787 ± 0.03962
pull
Entries 91
Mean 66.69
Std Dev 12.92
pull1D
Entries 91
Mean 0.06115
Std Dev 0.9797

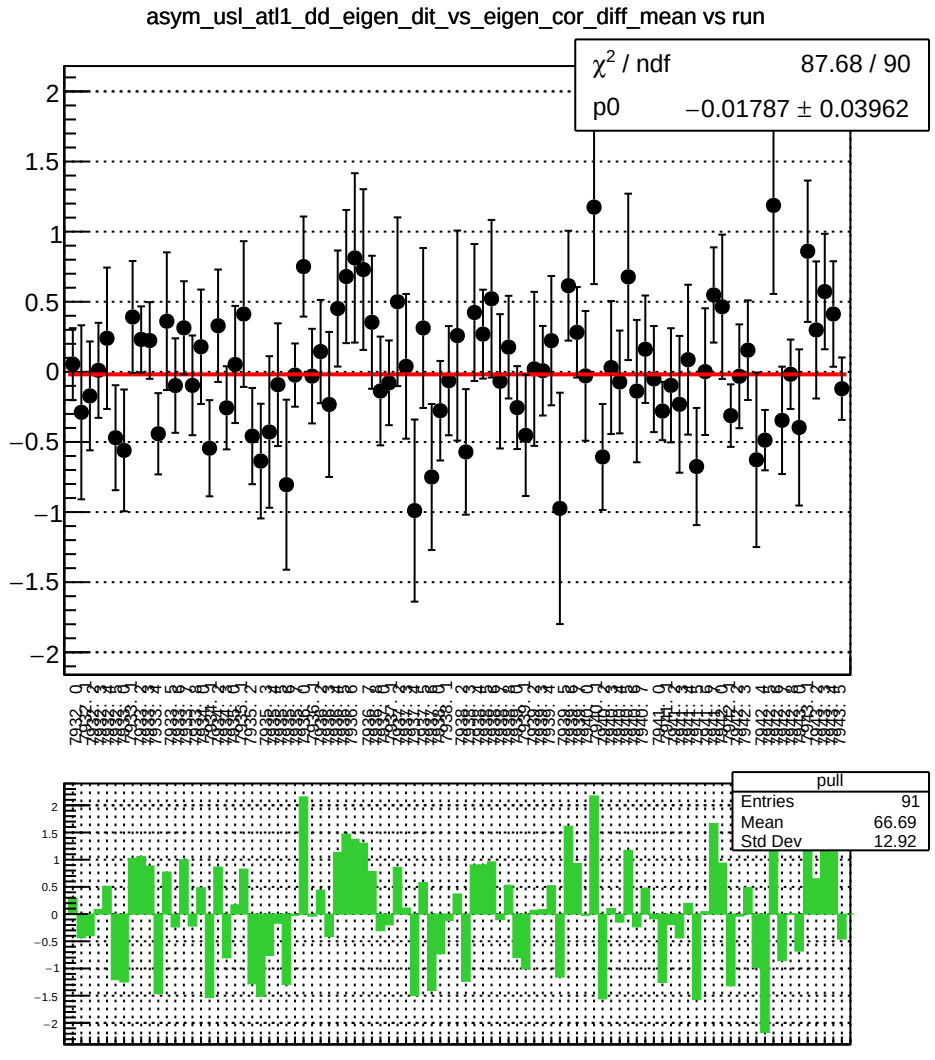

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 90
p0 35.6 ± 0.02801
80
70
60
50
40
30
20

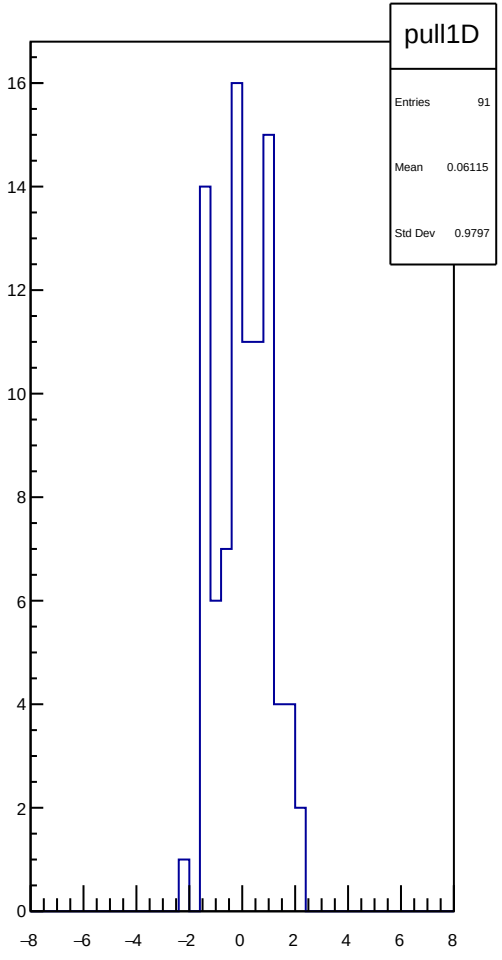

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.8 / 90
p0 5.582e−07 ± 1.04e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 91
Mean 5322
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.0002219
Std Dev 1.128
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

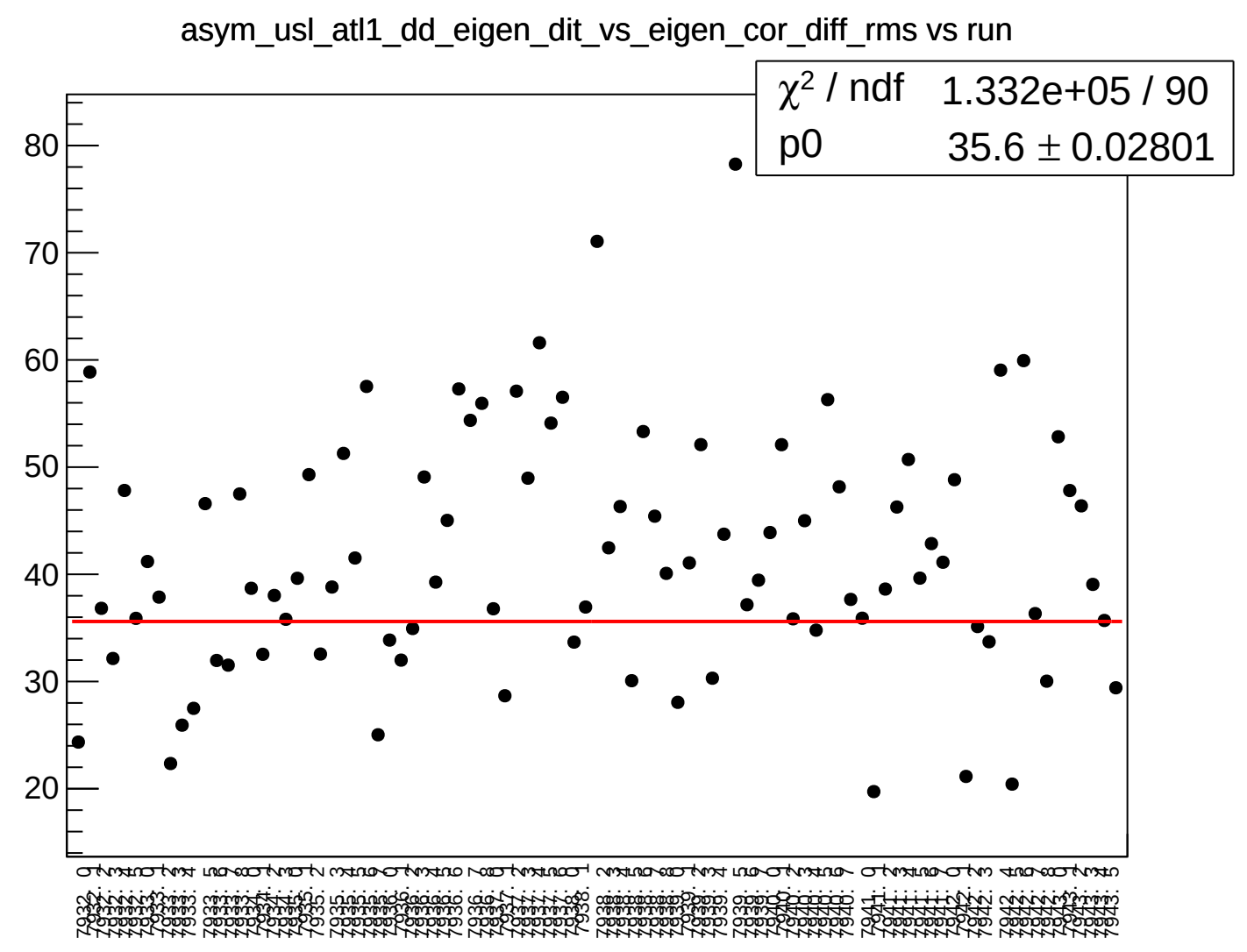

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2187 / 90
p0 0.0009717 ± 7.354e−07
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085

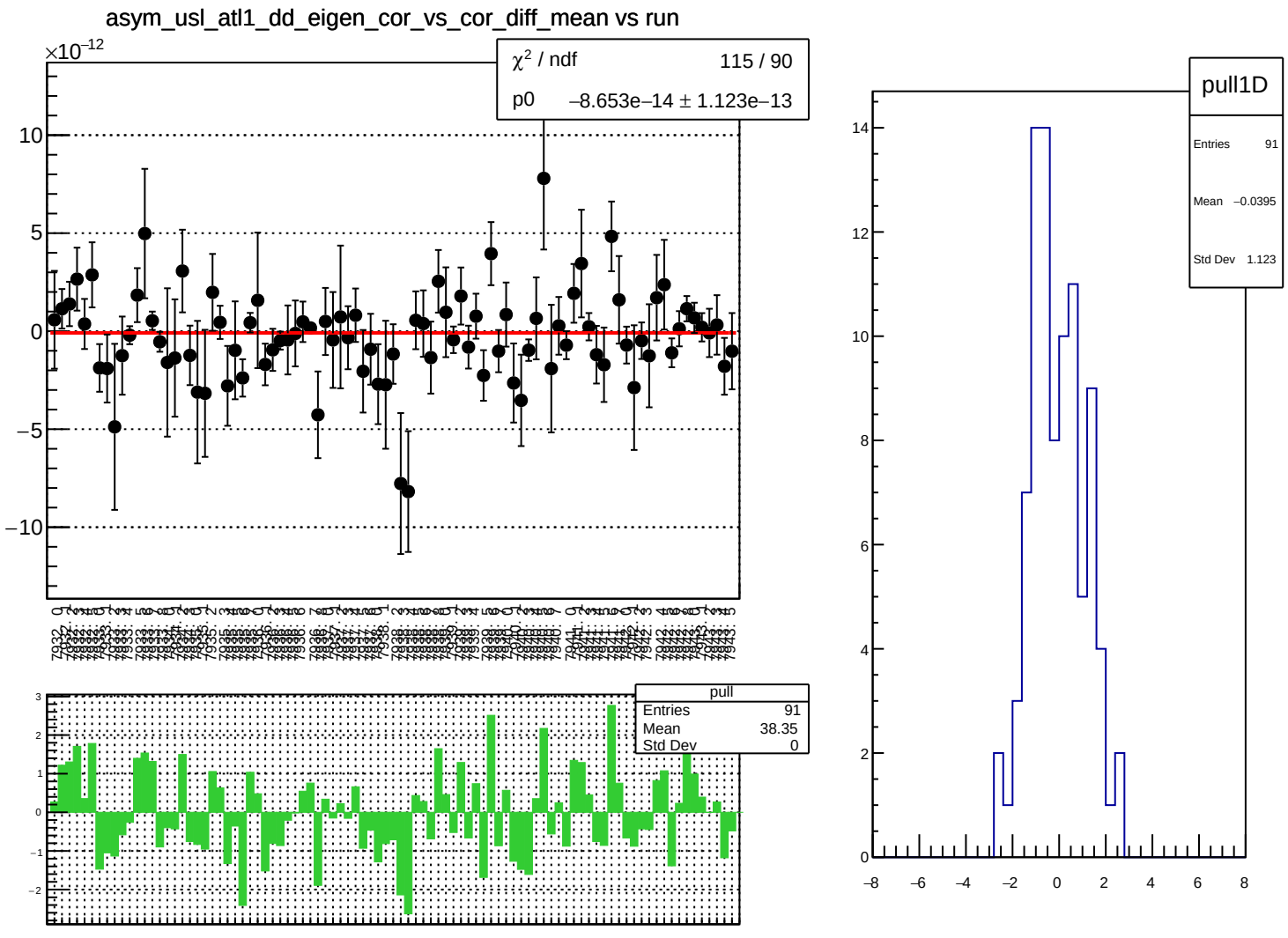

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 90
p0 −0.01787 ± 0.03962
pull
Entries 91
Mean 66.69
Std Dev 12.92
pull1D
Entries 91
Mean 0.06115
Std Dev 0.9797

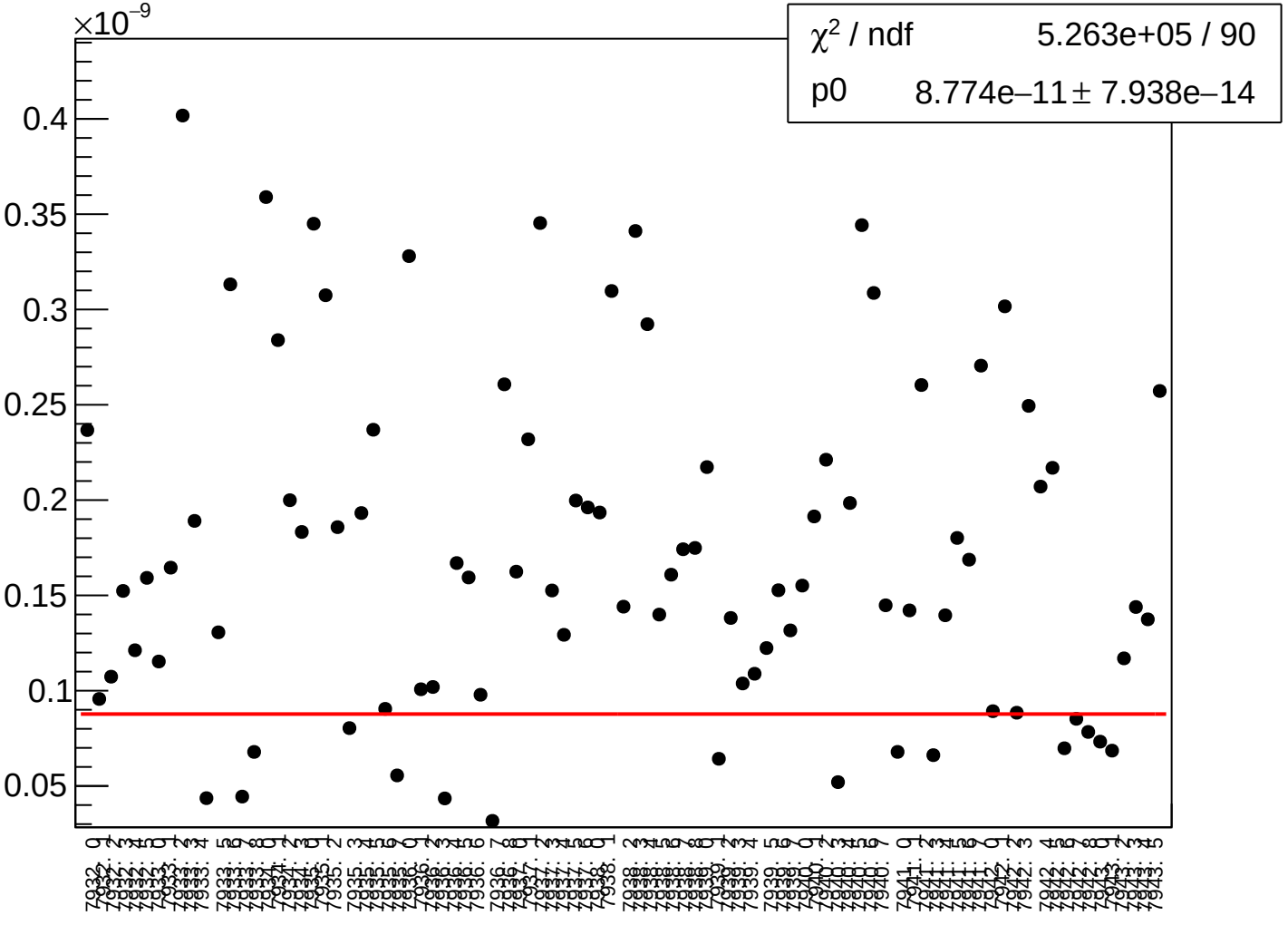

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 90
p0 35.6 ± 0.02801
80
70
60
50
40
30
20

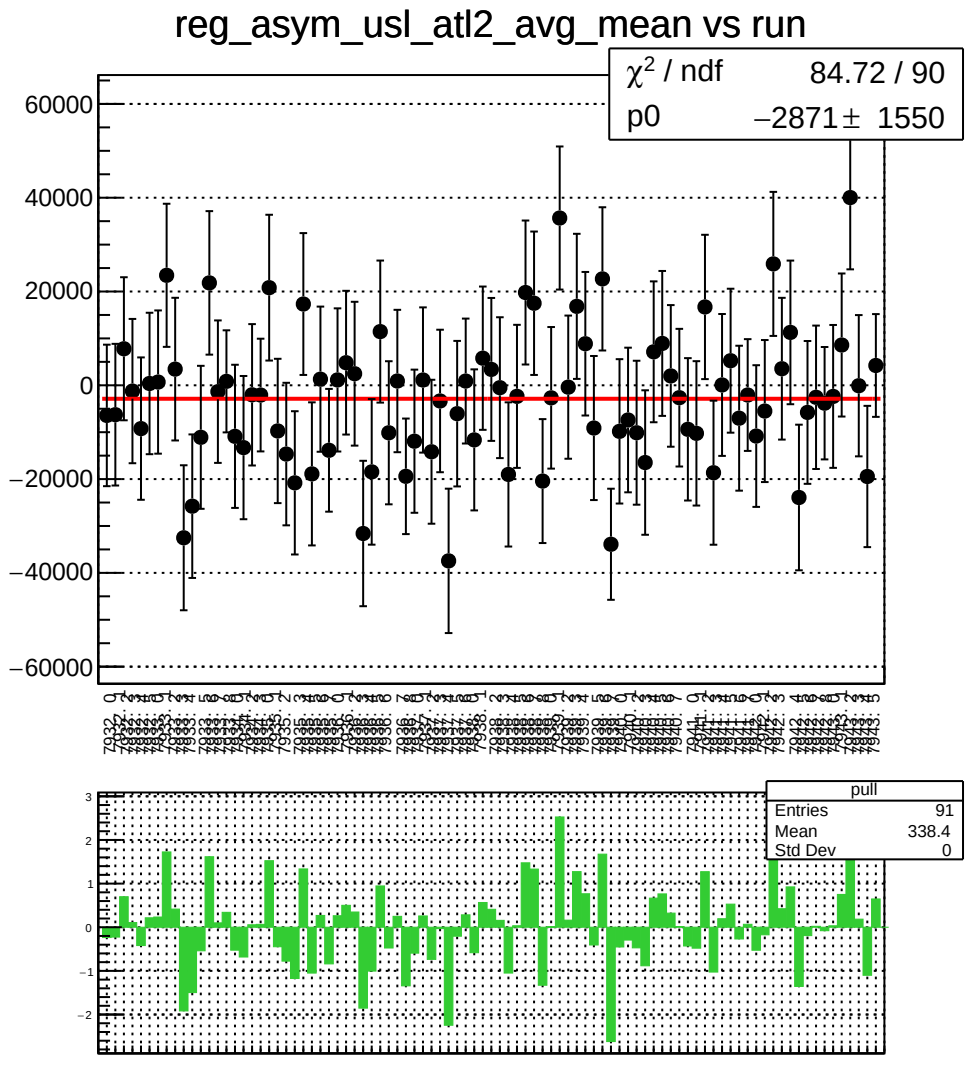

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.68 / 90
p0 −0.01787 ± 0.03962
pull
Entries 91
Mean 66.69
Std Dev 12.92

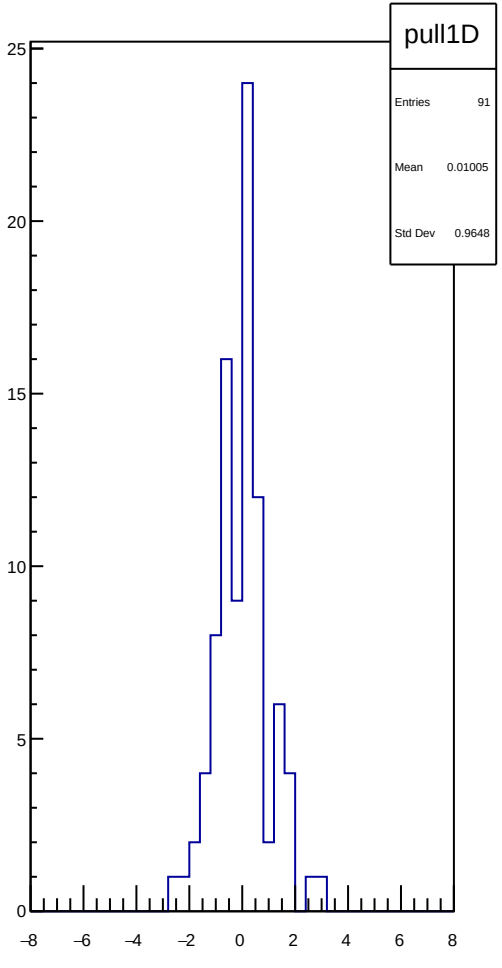

pull1D
Entries 91
Mean 0.06115
Std Dev 0.9797

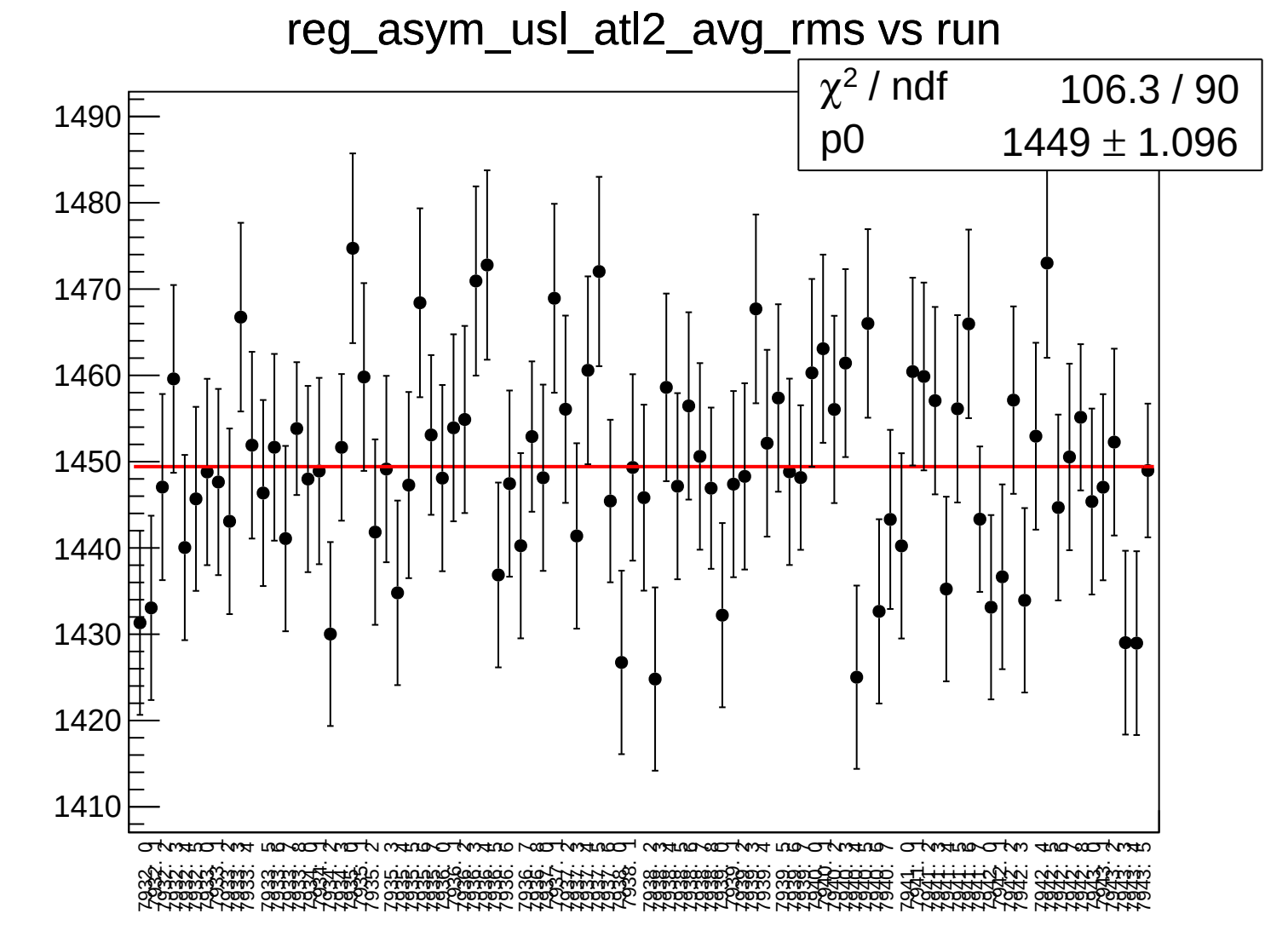

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 90
p0 35.6 ± 0.02801
80
70
60
50
40
30
20

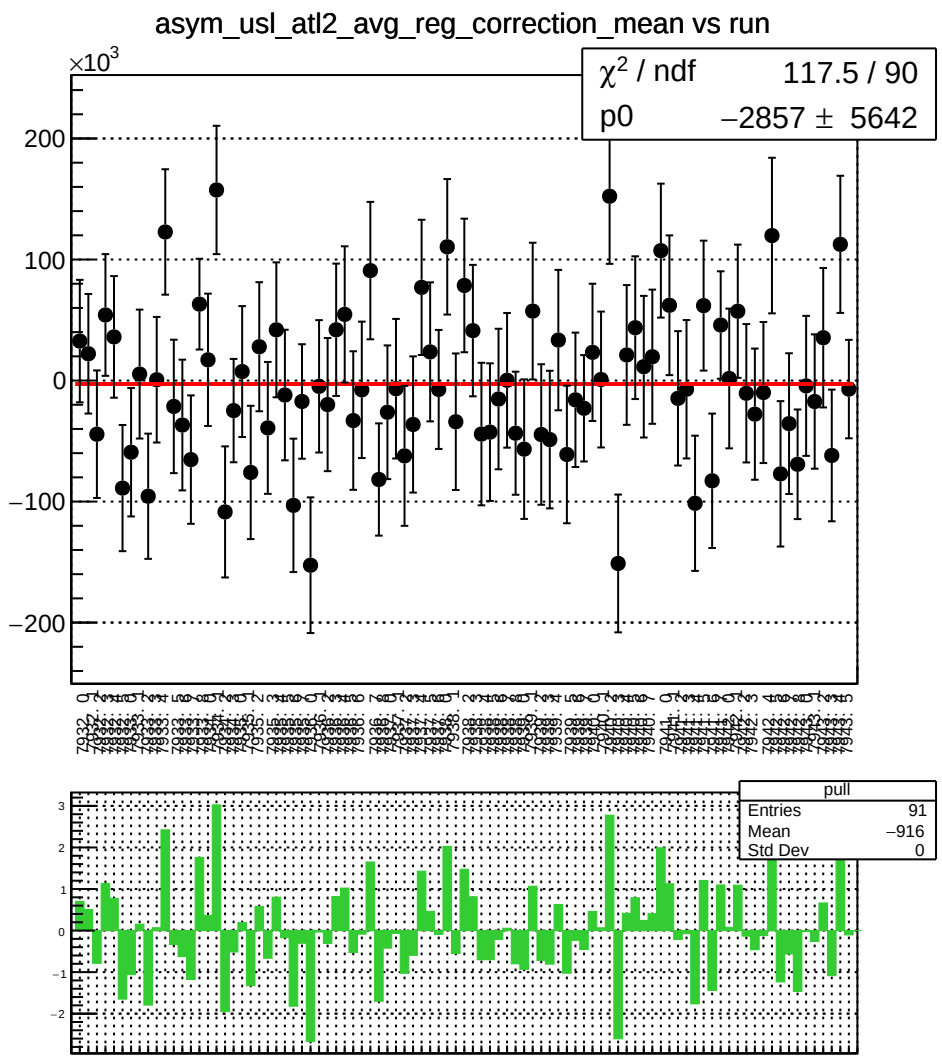

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115 / 90
p0 −8.653e−14 ± 1.123e−13
pull
Entries 91
Mean 38.35
Std Dev 0
pull1D
Entries 91
Mean −0.0395
Std Dev 1.123

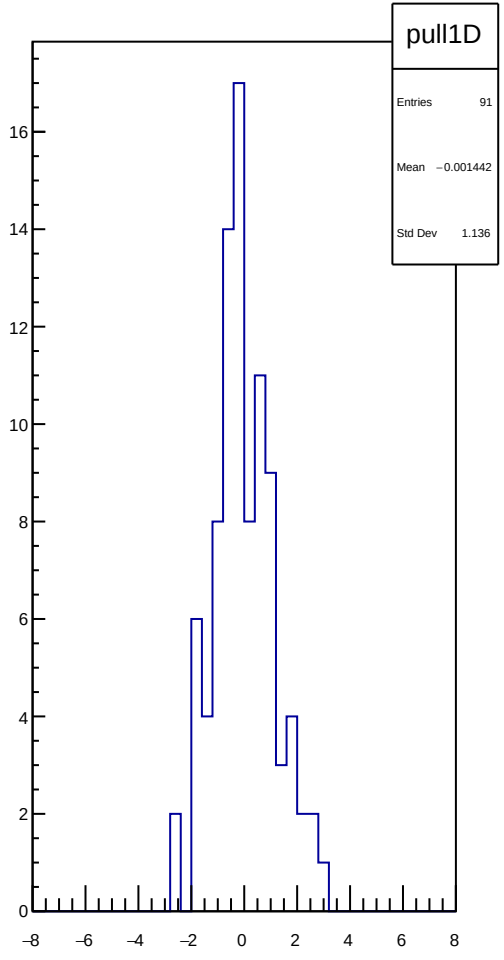

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.263e+05 / 90
p0 8.774e−11 ± 7.938e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

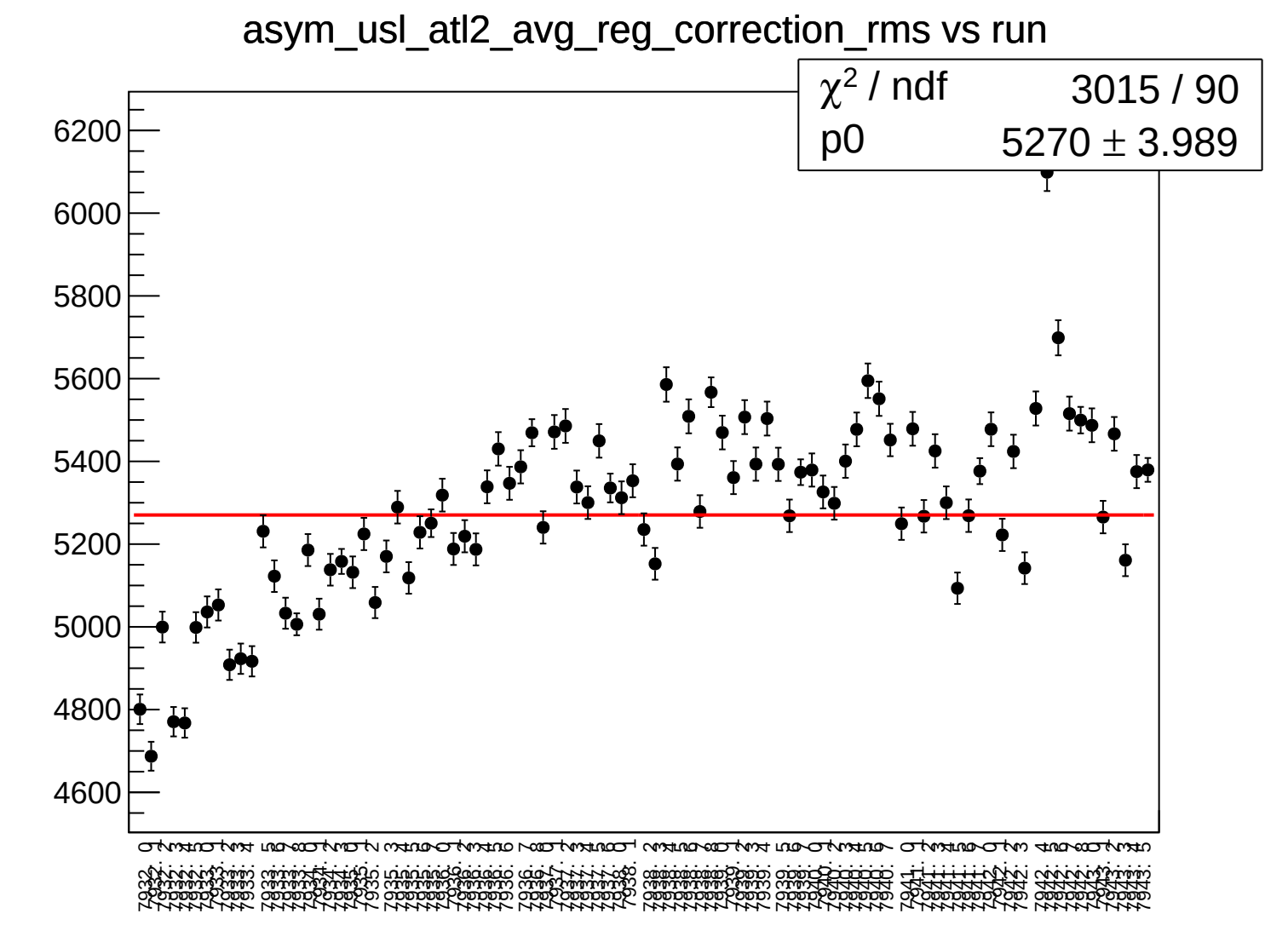

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.72 / 90
p0 −2871 ± 1550
pull
Entries 91
Mean 338.4
Std Dev 0

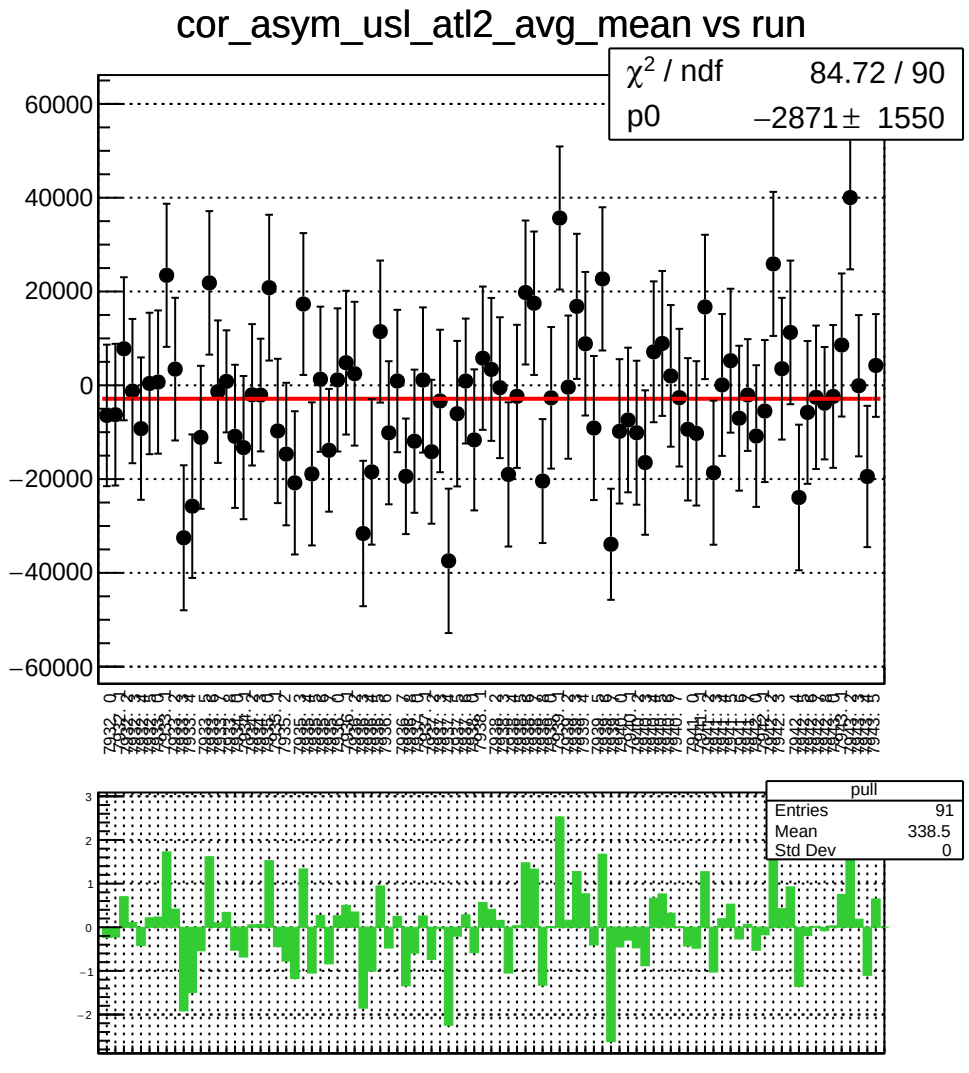

pull1D
Entries 91
Mean 0.01005
Std Dev 0.9648

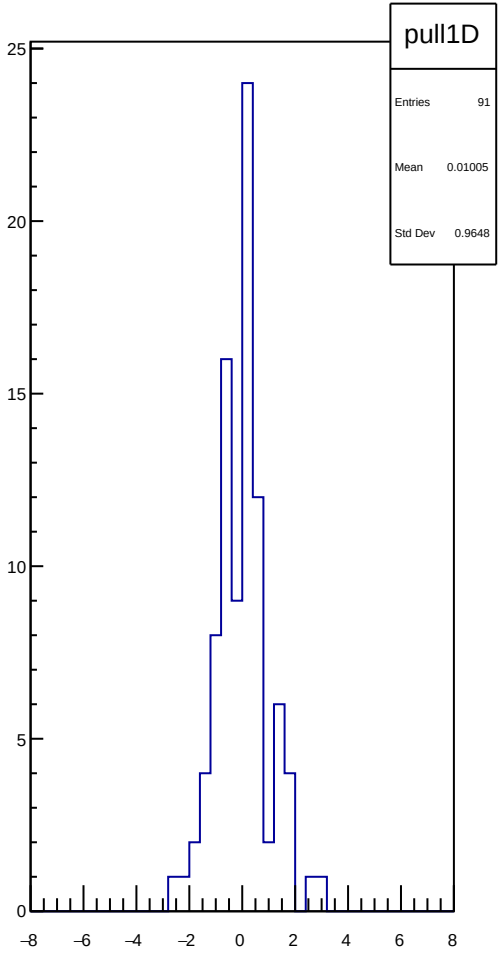

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.3 / 90
p0 1449 ± 1.096
1490
1480
1470
1460
1450
1440
1430
1420
1410

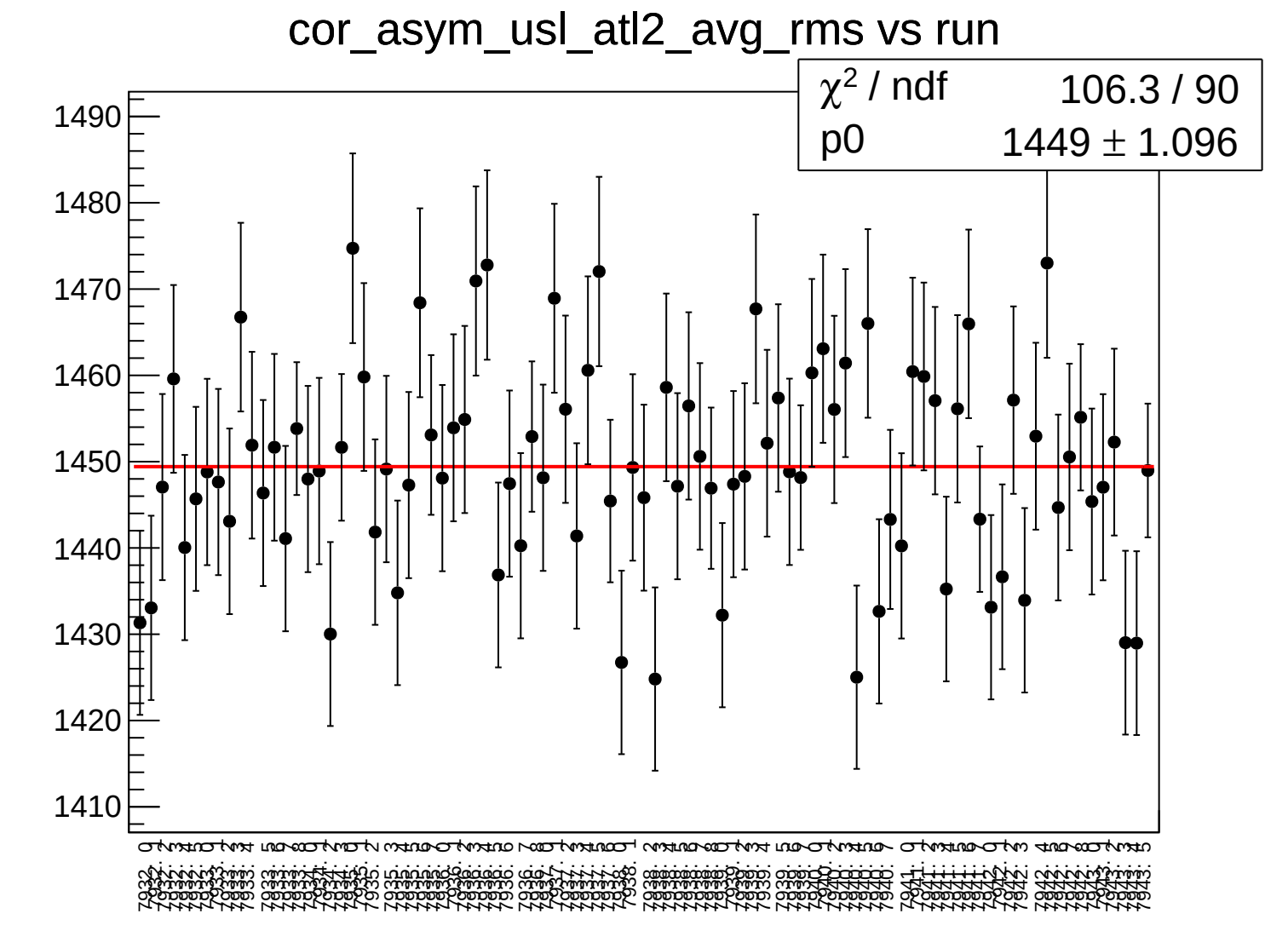

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 117.5 / 90
p0 −2857 ± 5642
200
100
0
−100
−200
pull
Entries 91
Mean −916
Std Dev 0
3
2
1
0
−1
−2

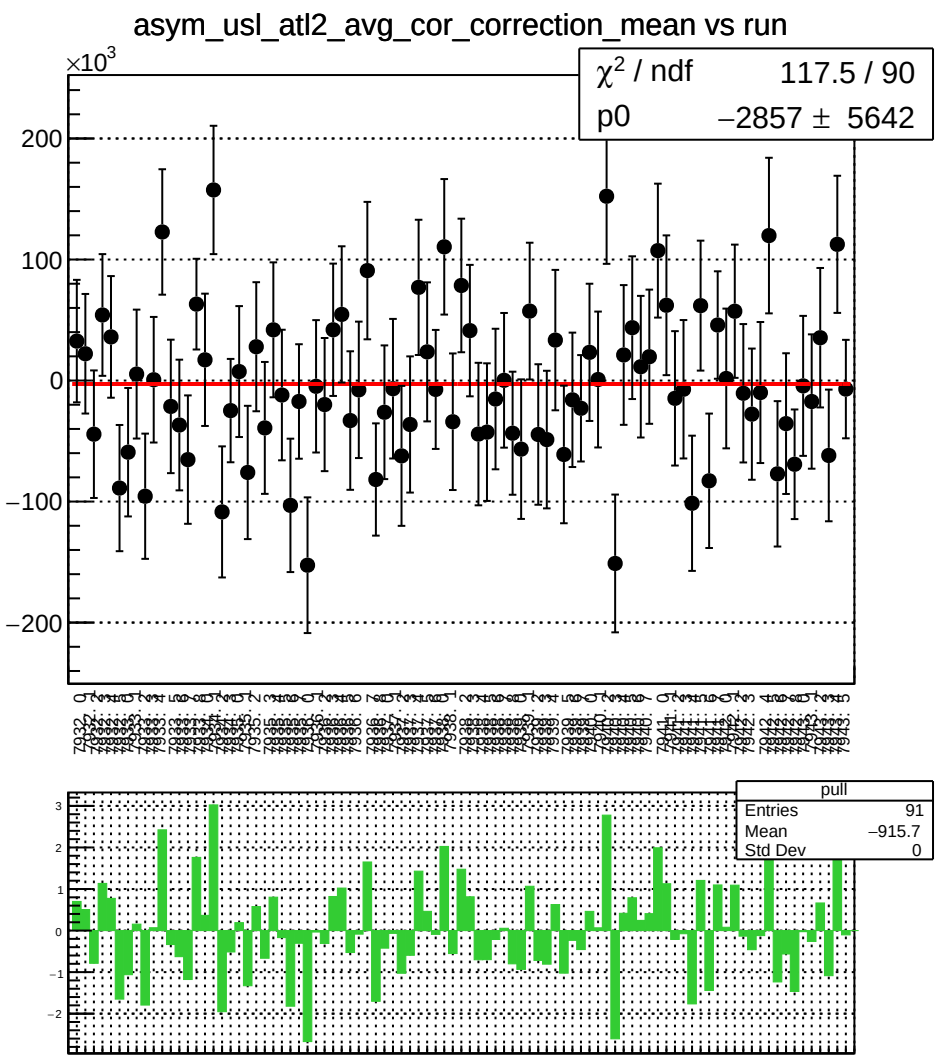

pull1D
Entries 91
Mean −0.001442
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

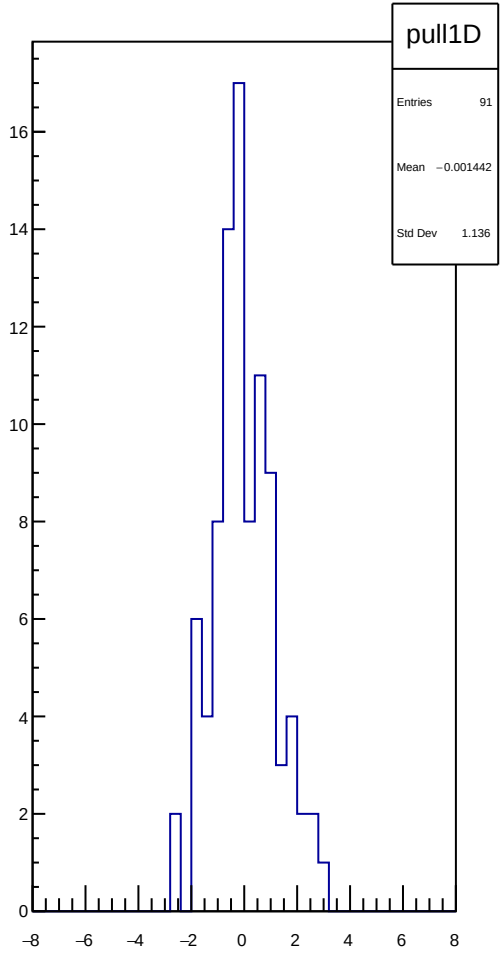

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3015 / 90
p0 5270 ± 3.989
6200
6000
5800
5600
5400
5200
5000
4800
4600

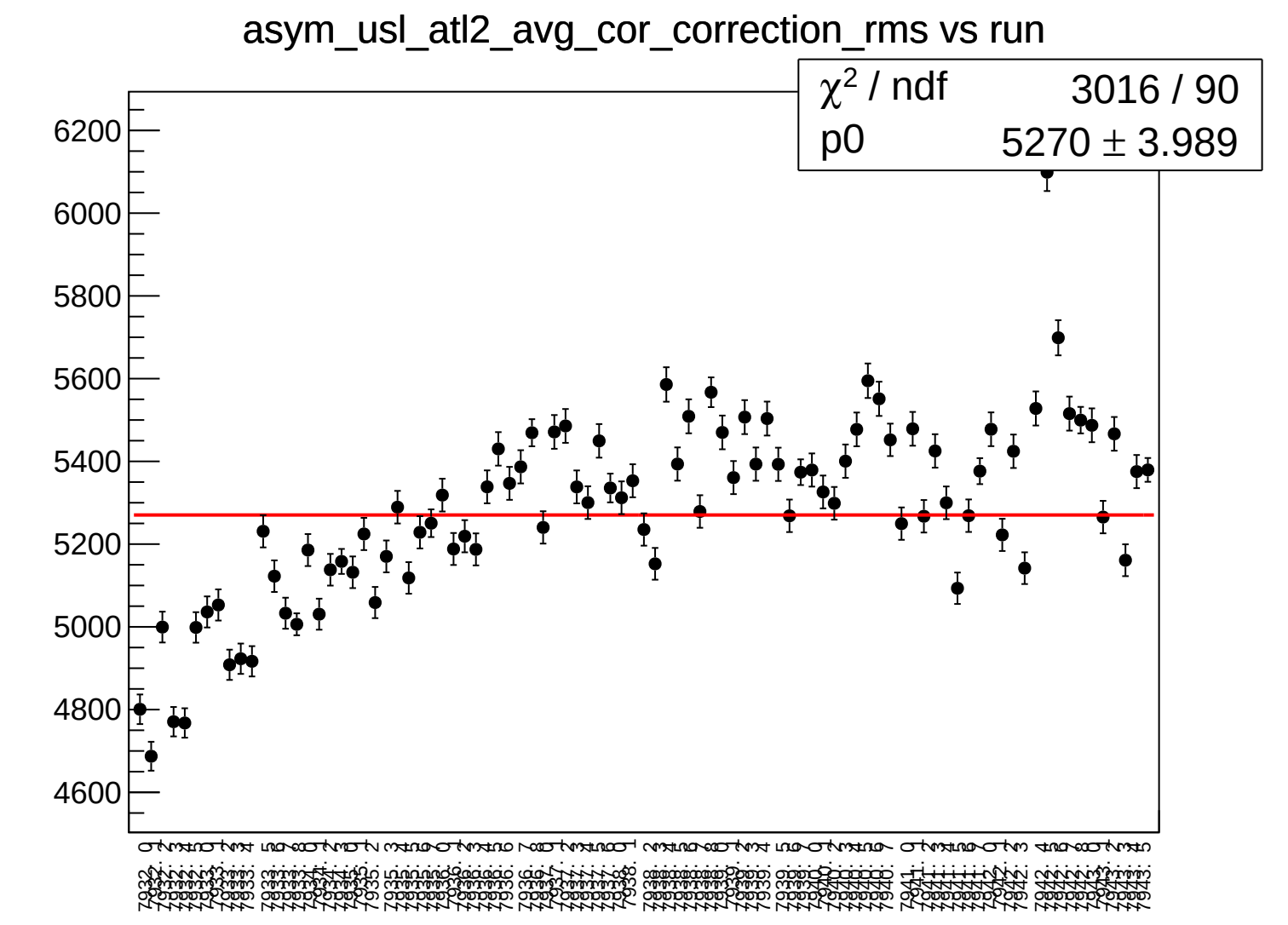

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.72 / 90
p0 −2871 ± 1550
pull
Entries 91
Mean 338.5
Std Dev 0

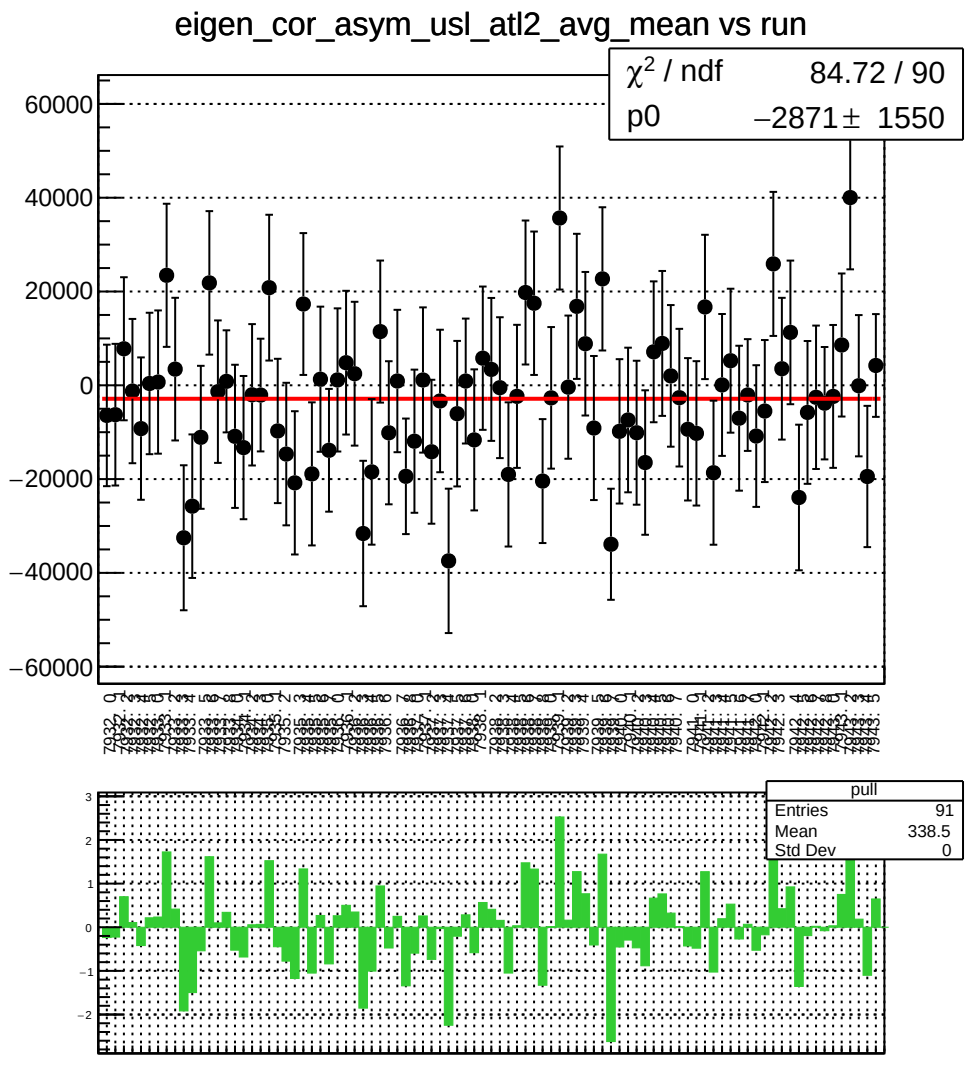

pull1D
Entries 91
Mean 0.01005
Std Dev 0.9648

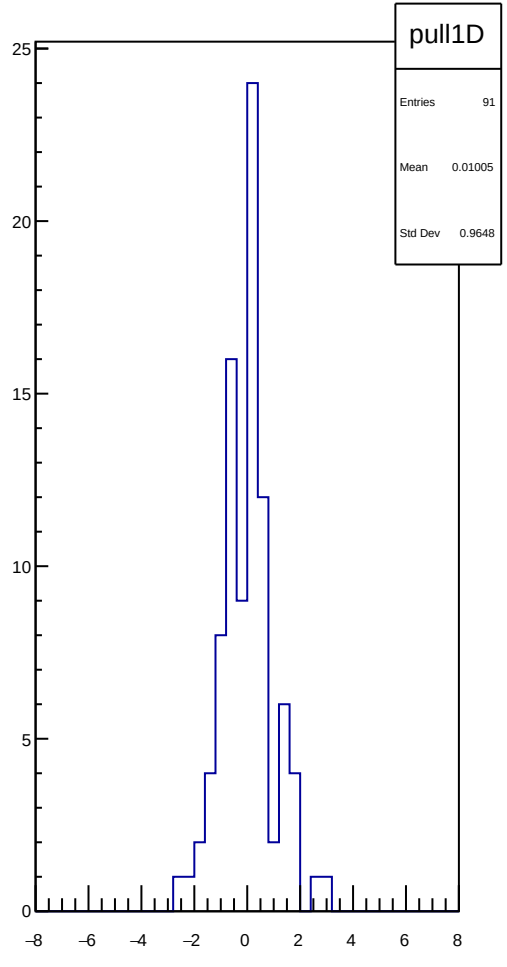

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.3 / 90
p0 1449 ± 1.096
1490
1480
1470
1460
1450
1440
1430
1420
1410

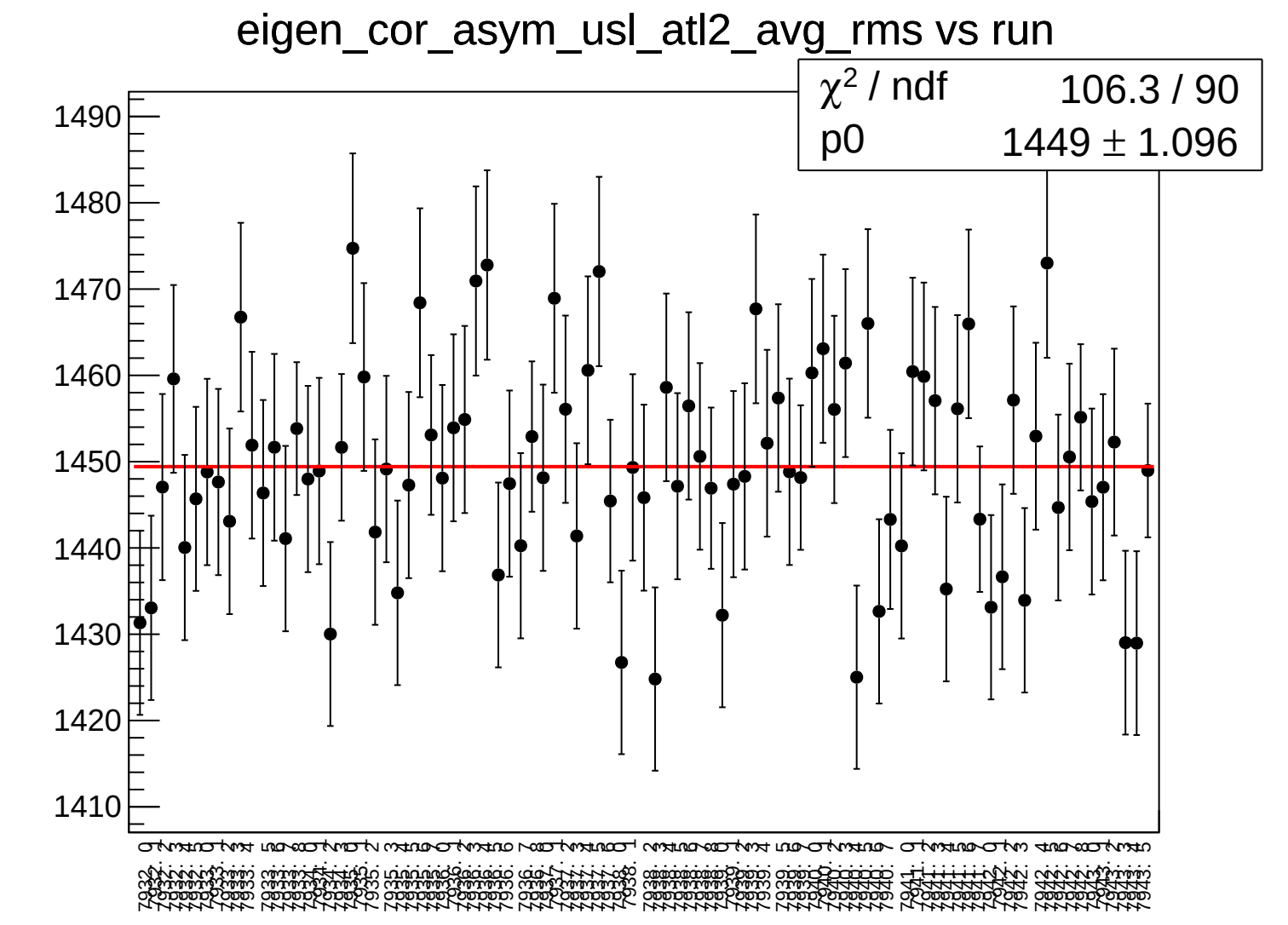

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 117.5 / 90
p0 −2857 ± 5642
200
100
0
−100
−200
pull
Entries 91
Mean −915.7
Std Dev 0
3
2
1
0
−1
−2

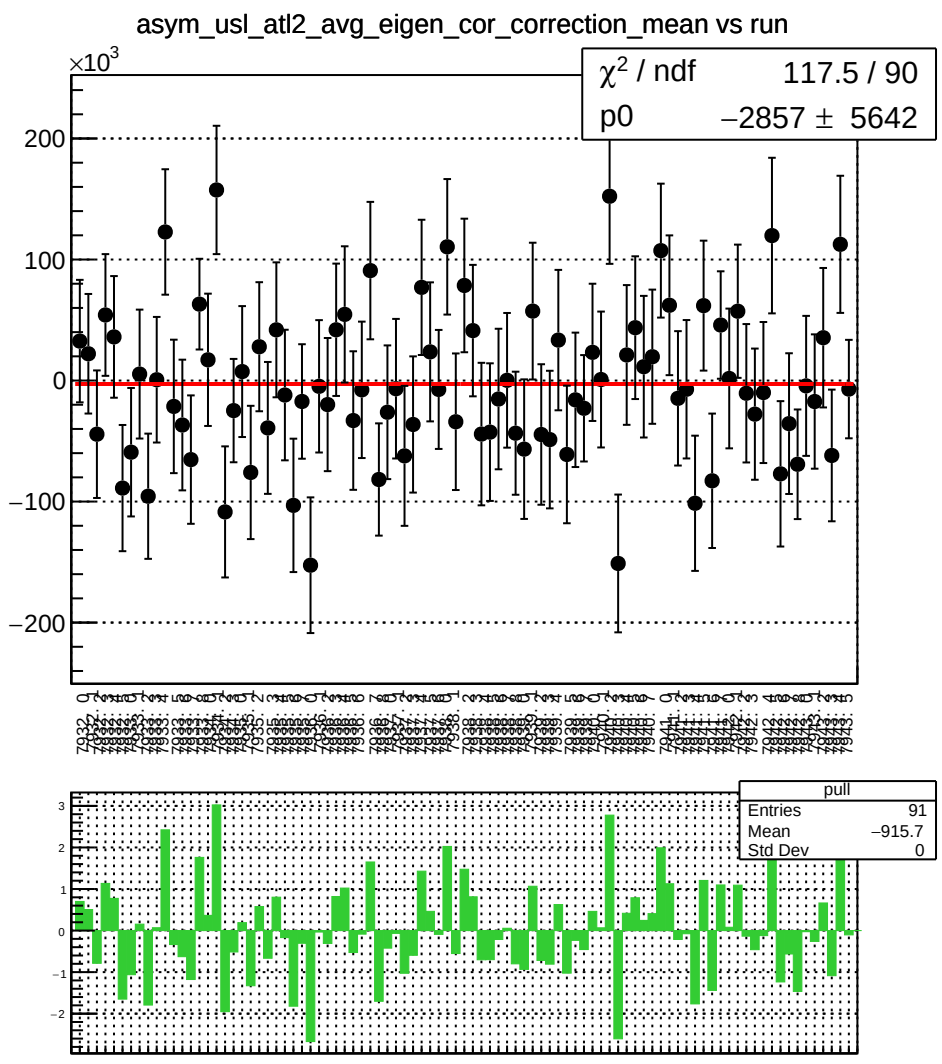

pull1D
Entries 91
Mean −0.001442
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

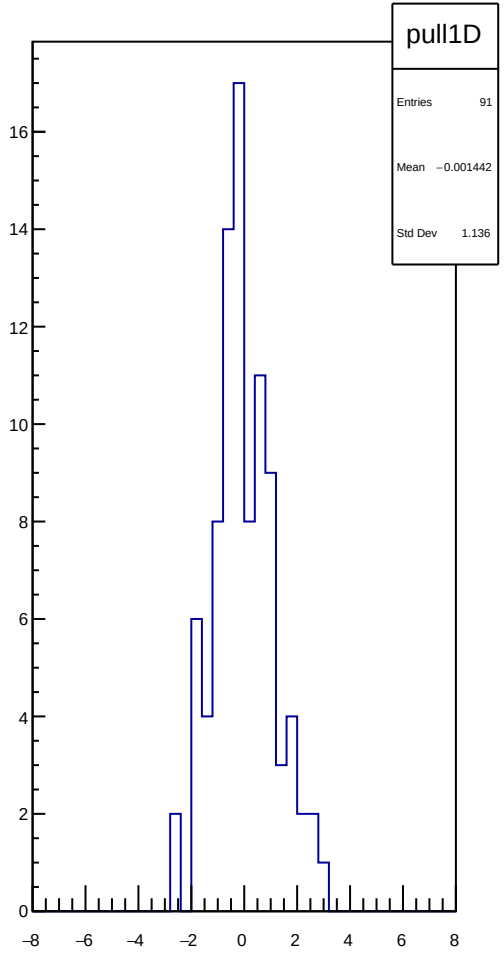

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 3016 / 90
p0 5270 ± 3.989
6200
6000
5800
5600
5400
5200
5000
4800
4600

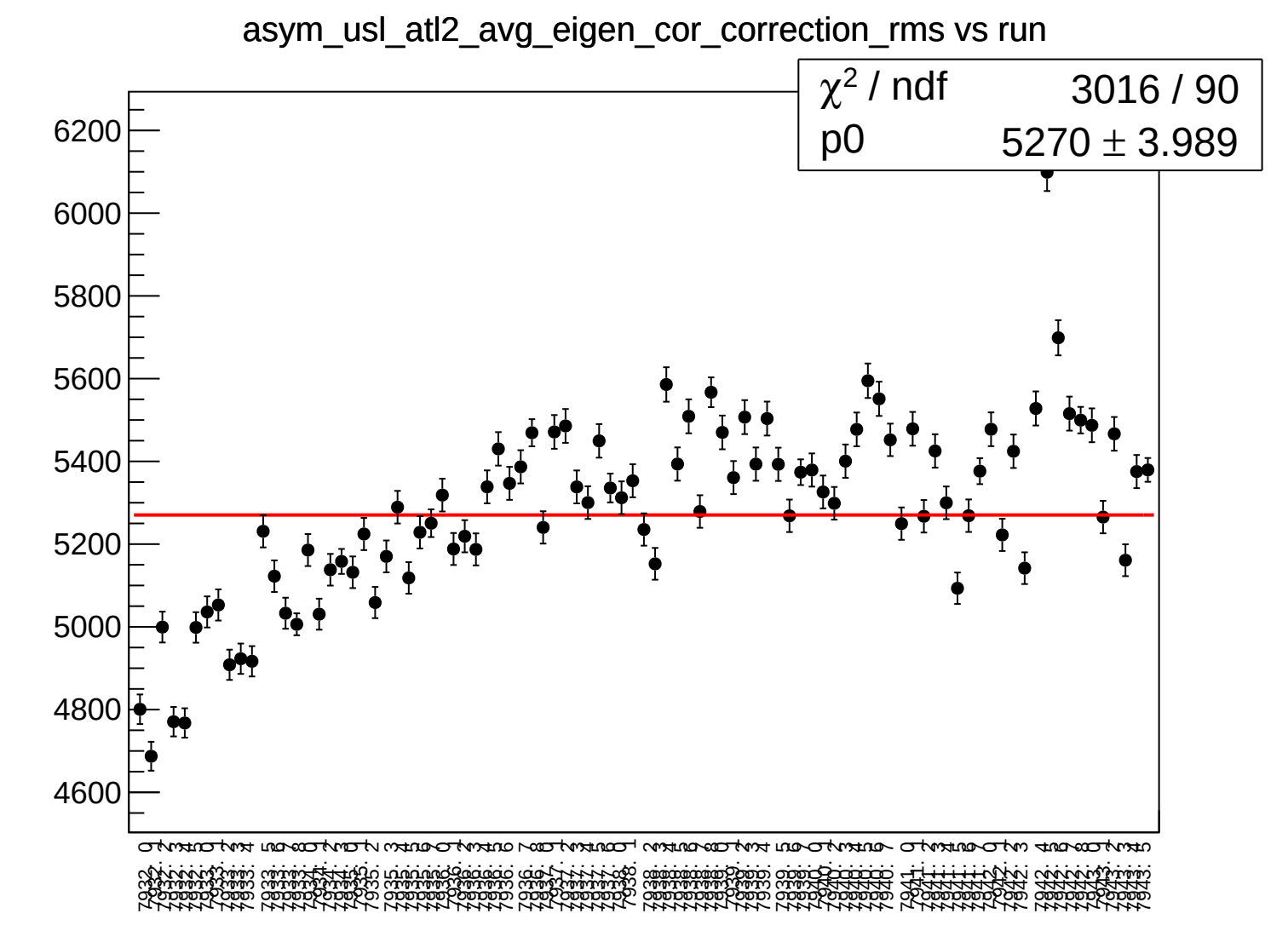

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.72 / 90
p0 −2871 ± 1550
pull
Entries 91
Mean 338.5
Std Dev 0

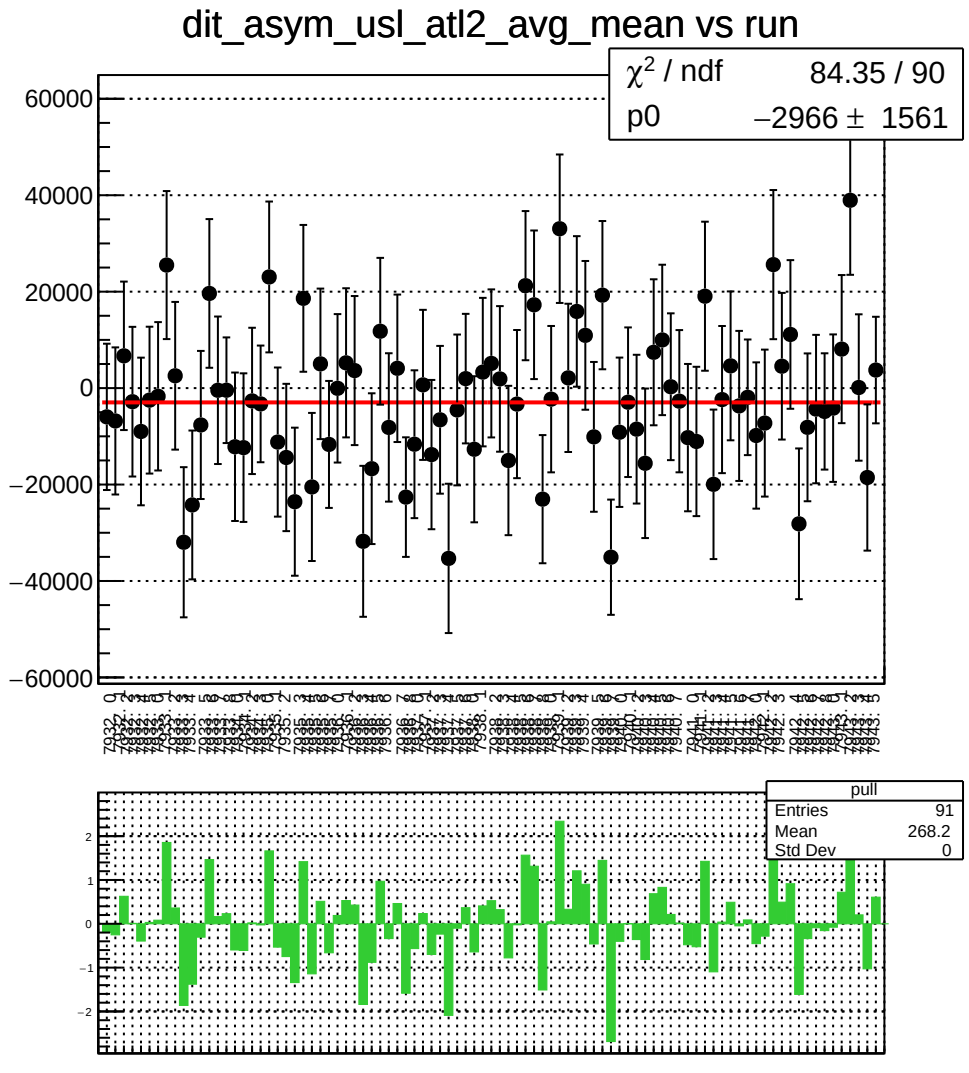

pull1D
Entries 91
Mean 0.01005
Std Dev 0.9648

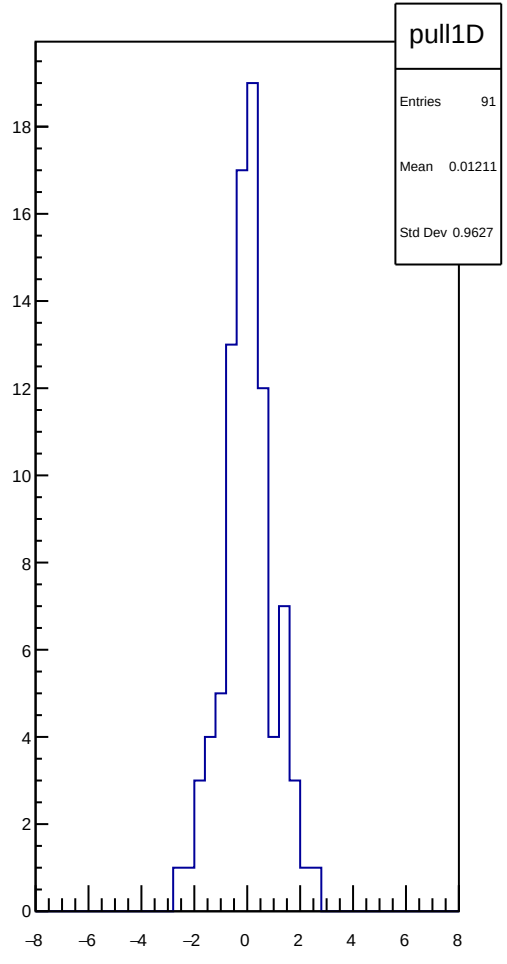

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.3 / 90
p0 1449 ± 1.096
1490
1480
1470
1460
1450
1440
1430
1420
1410

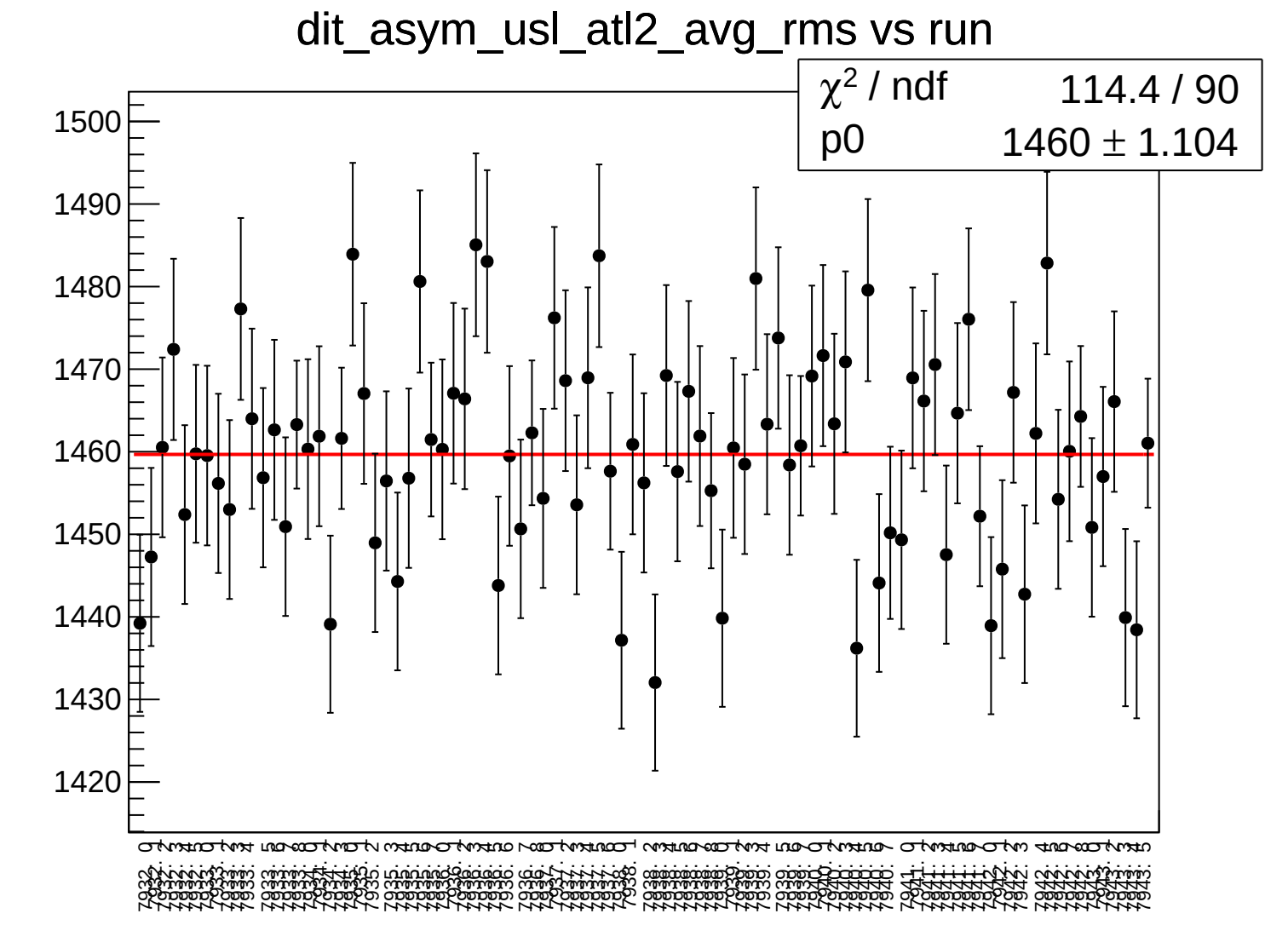

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 117.5 / 90
p0 −2857 ± 5642
200
100
0
−100
−200
pull
Entries 91
Mean −915.7
Std Dev 0
3
2
1
0
−1
−2

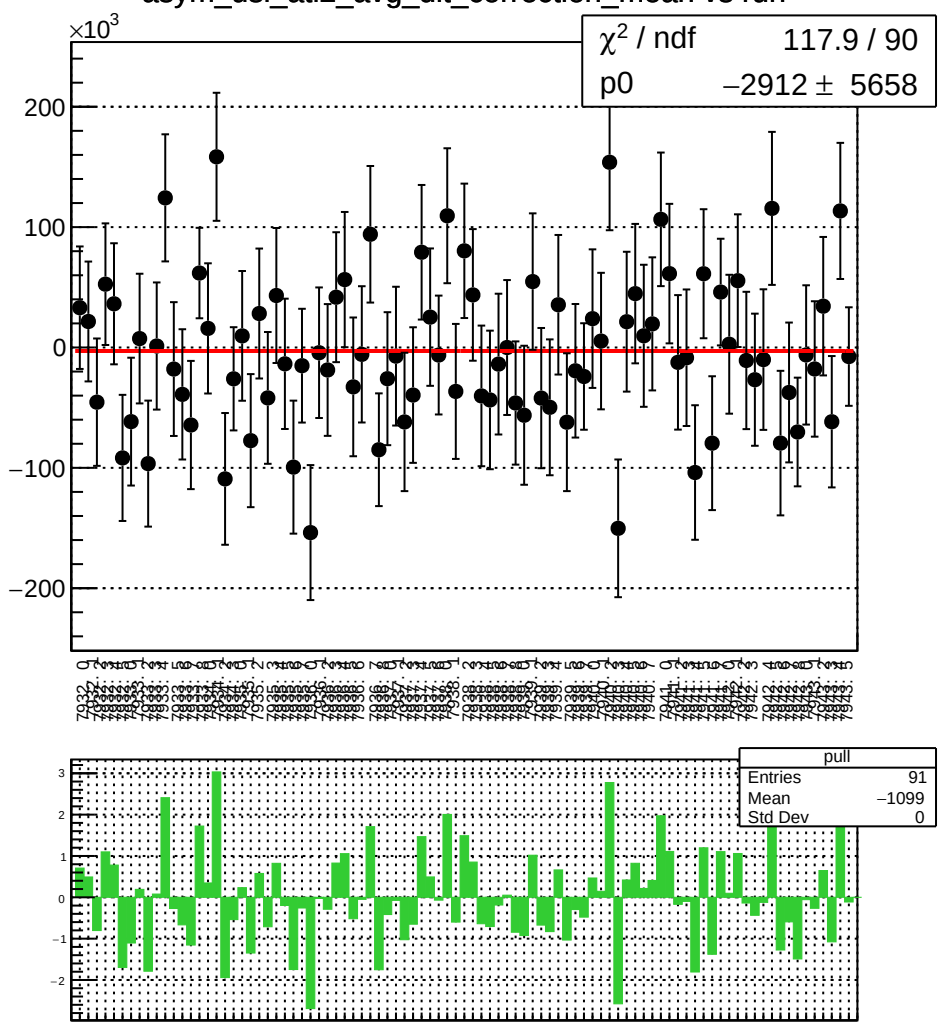

pull1D
Entries 91
Mean −0.001442
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

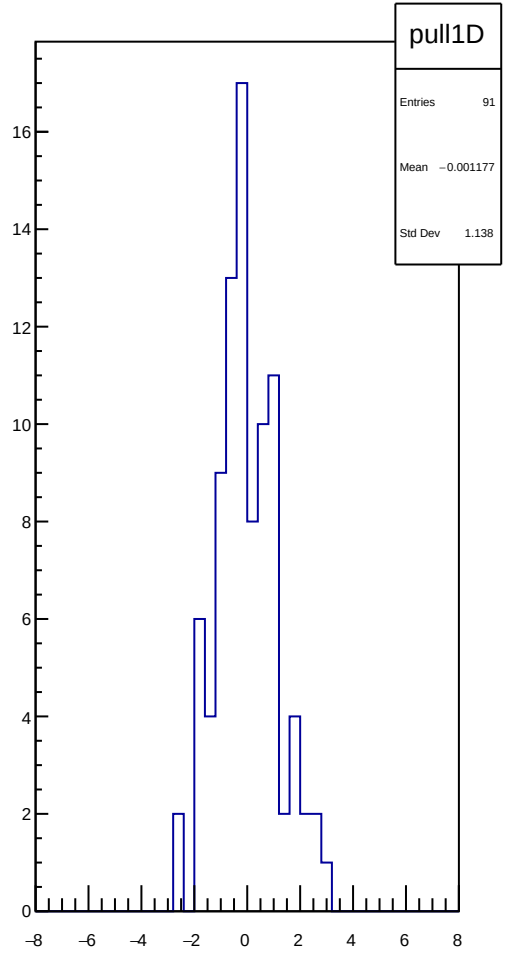

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3016 / 90
p0 5270 ± 3.989
6200
6000
5800
5600
5400
5200
5000
4800
4600

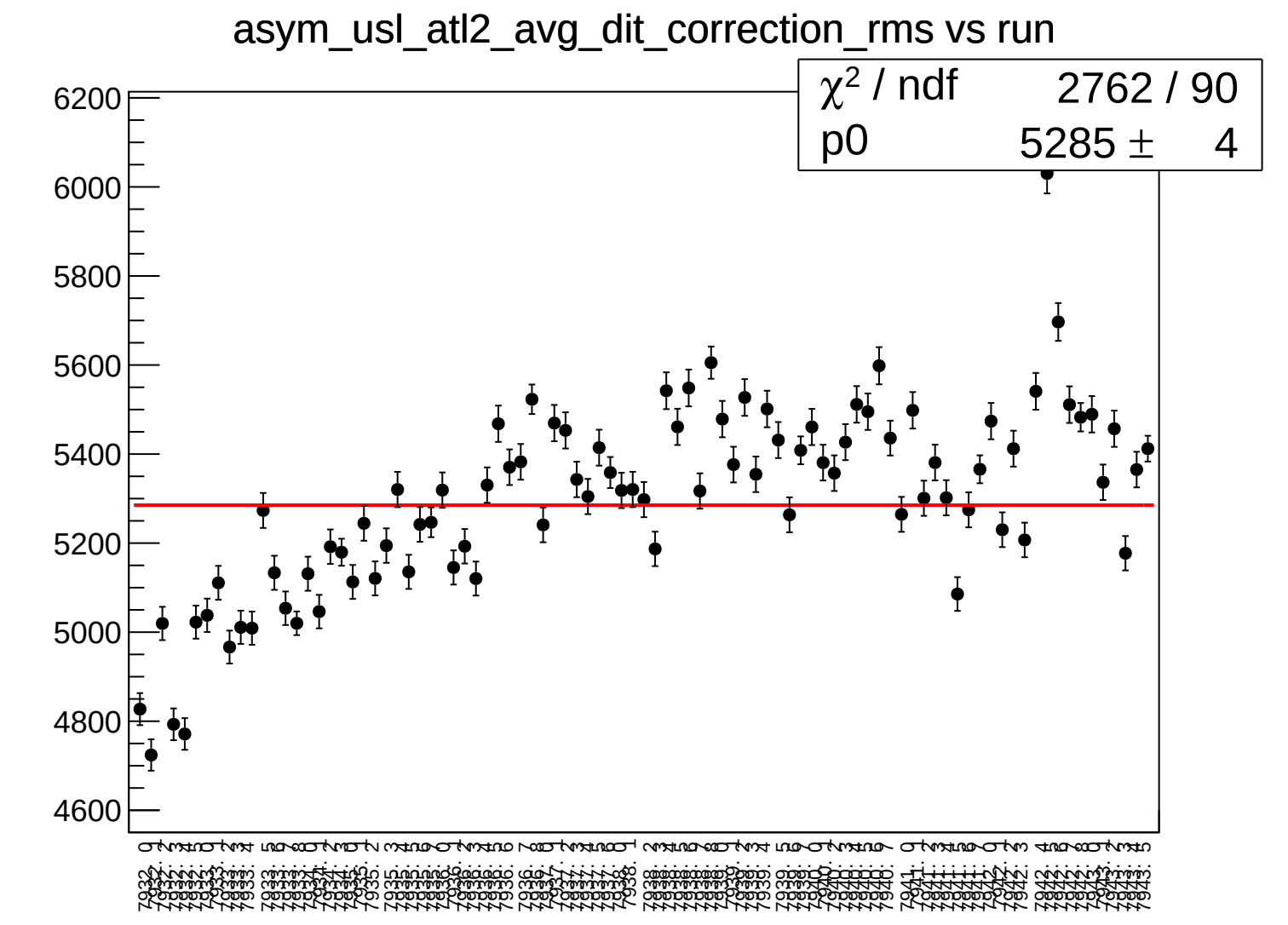

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.35 / 90
p0 −2966 ± 1561
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 268.2
Std Dev 0
2
1
0
−1
−2

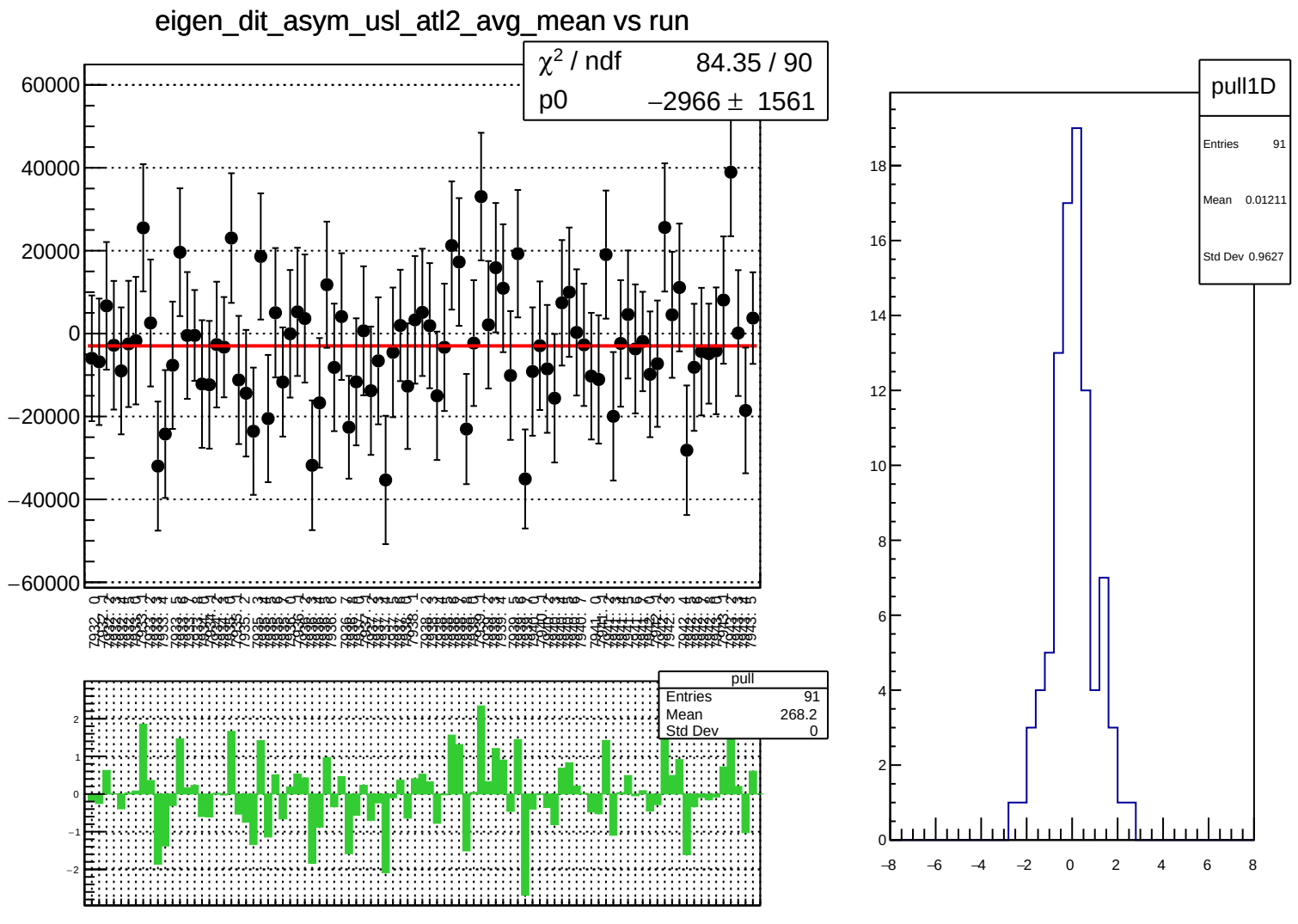

pull1D
Entries 91
Mean 0.01211
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

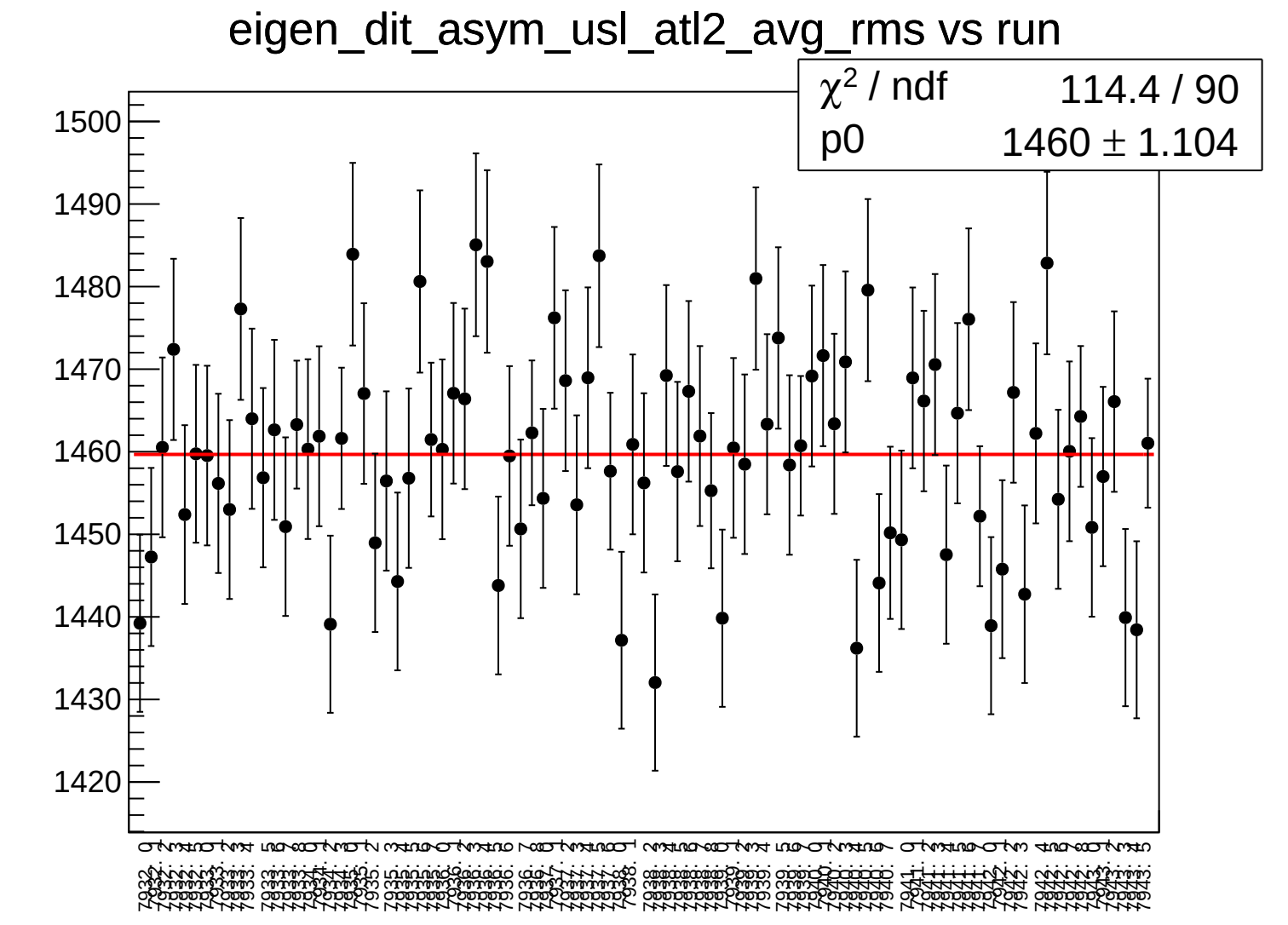

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 114.4 / 90
p0 1460 ± 1.104
1500
1490
1480
1470
1460
1450
1440
1430
1420

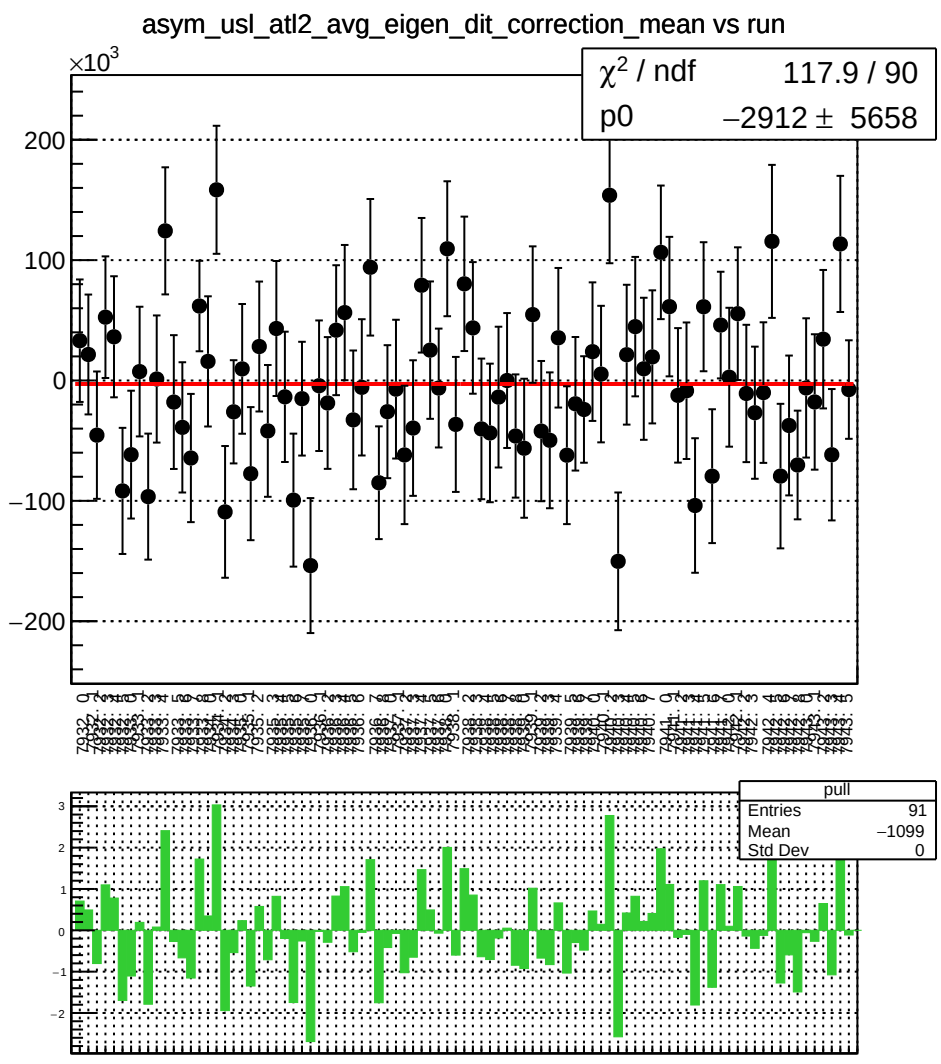

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 117.9 / 90
p0 −2912 ± 5658
200
100
0
−100
−200
pull
Entries 91
Mean −1099
Std Dev 0
3
2
1
0
−1
−2

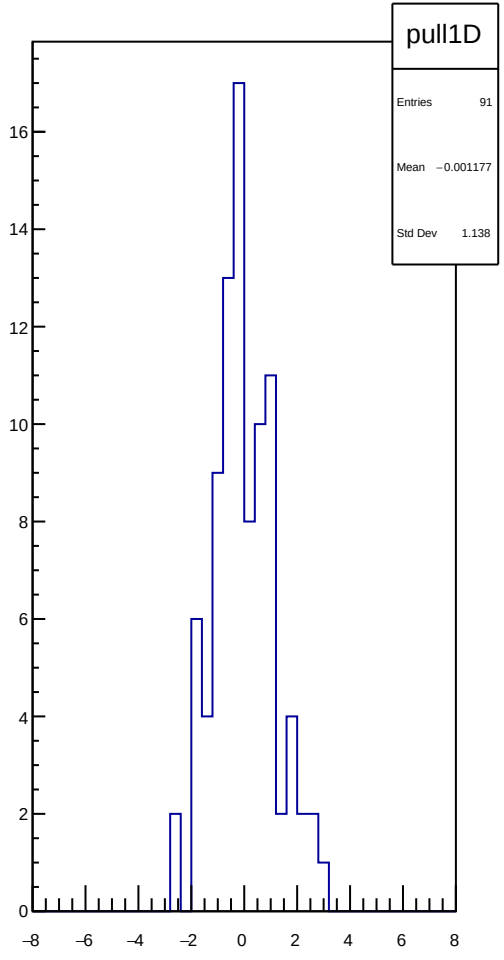

pull1D
Entries 91
Mean −0.001177
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

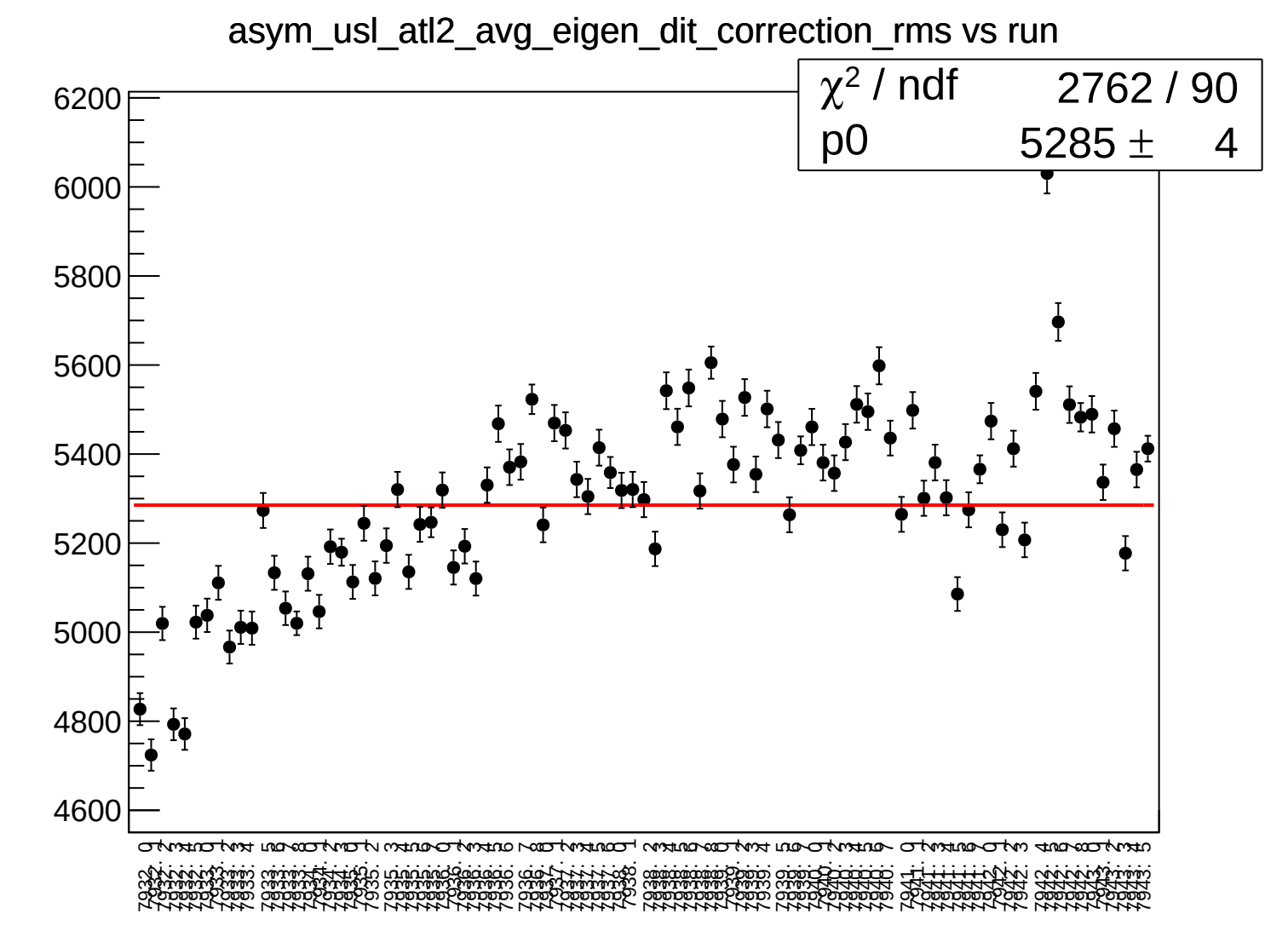

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2762 / 90
p0 5285 ± 4
6200
6000
5800
5600
5400
5200
5000
4800
4600

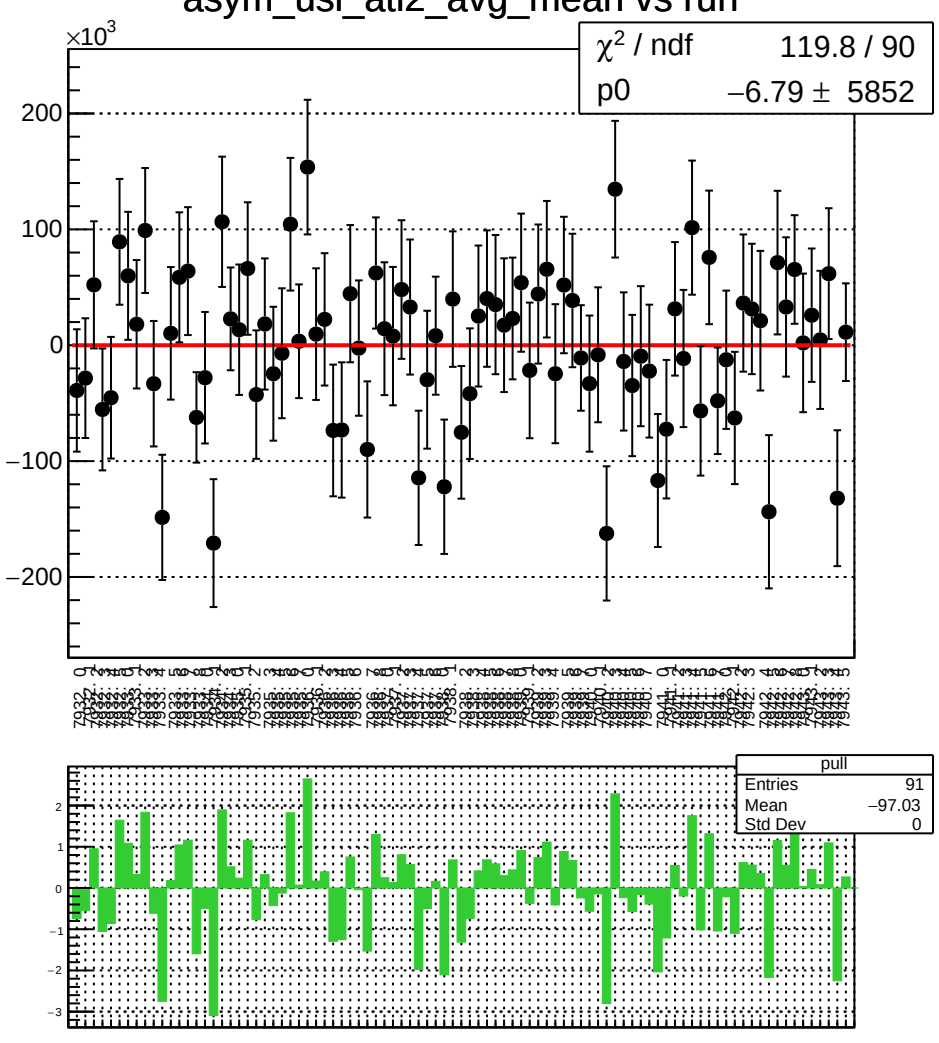

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.35 / 90
p0 −2966 ± 1561
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 268.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01211
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

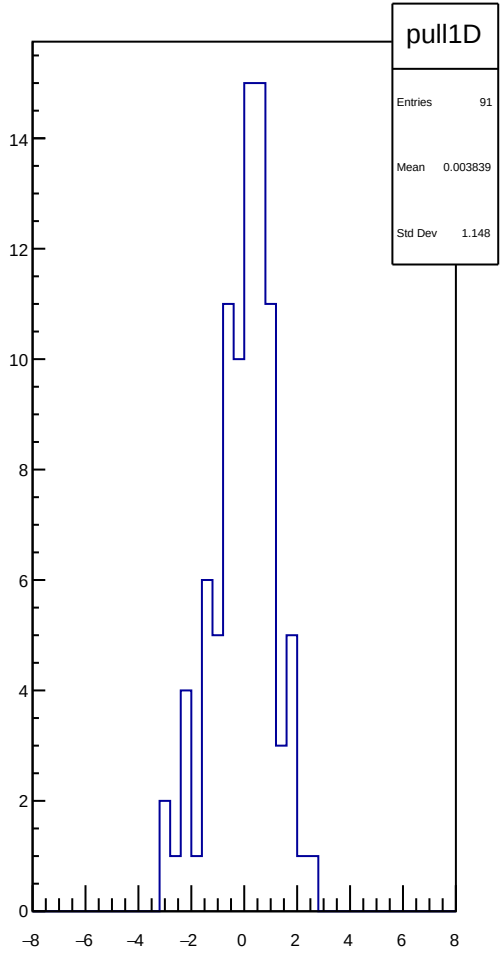

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 114.4 / 90
p0 1460 ± 1.104
1500
1490
1480
1470
1460
1450
1440
1430
1420

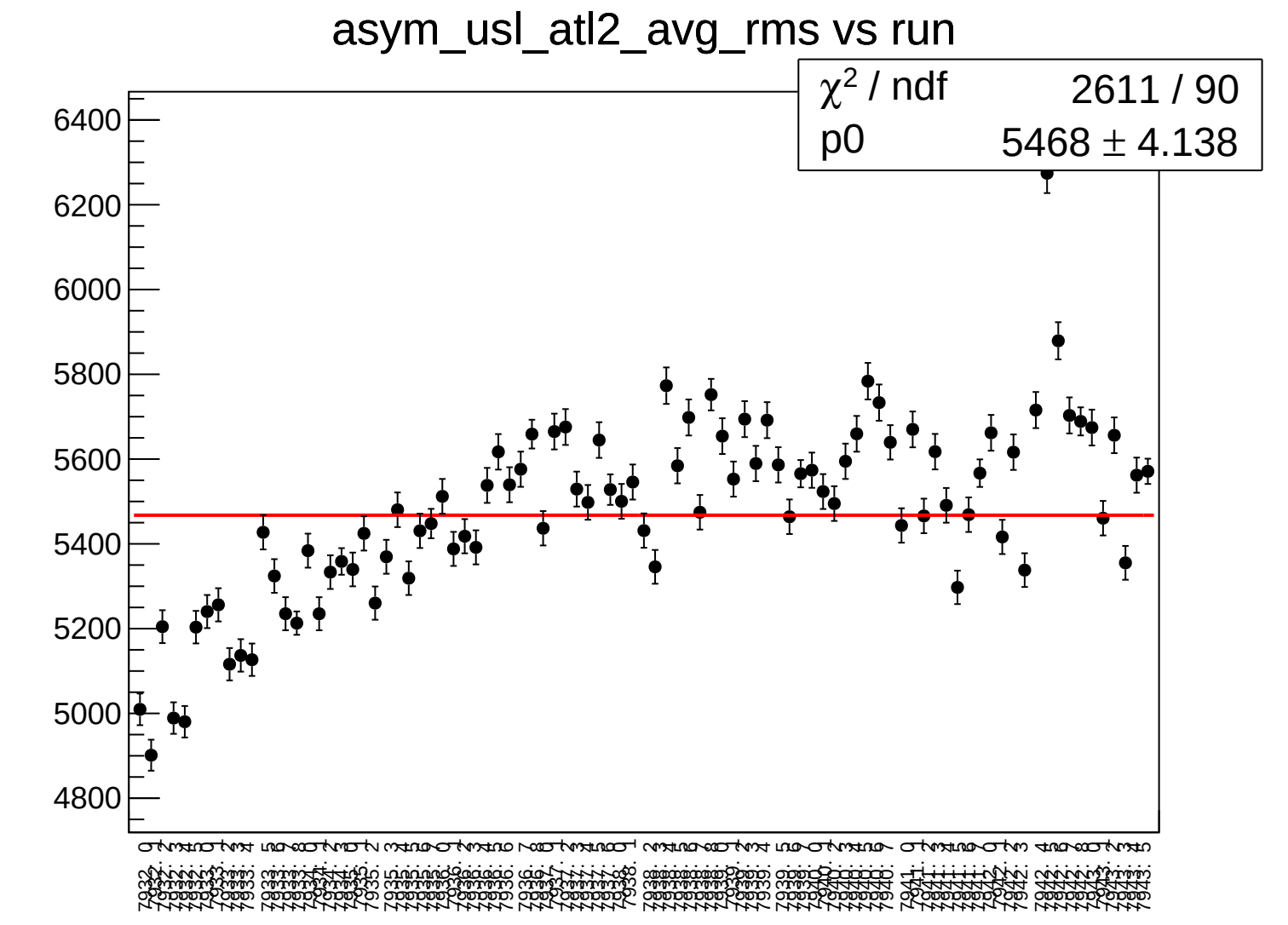

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 117.9 / 90
p0 −2912 ± 5658
200
100
0
−100
−200
pull
Entries 91
Mean −1099
Std Dev 0
3
2
1
0
−1
−2

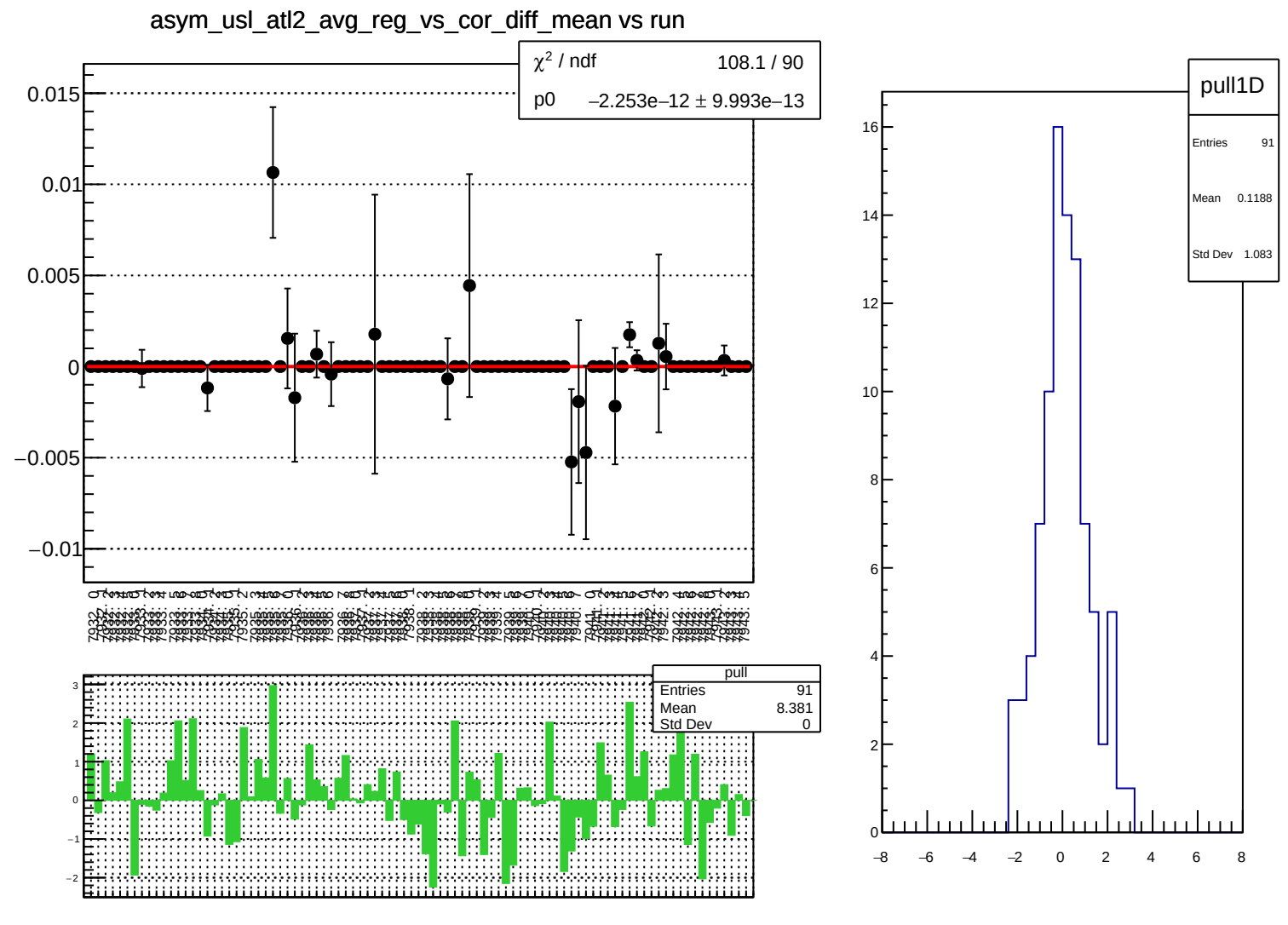

pull1D
Entries 91
Mean −0.001177
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

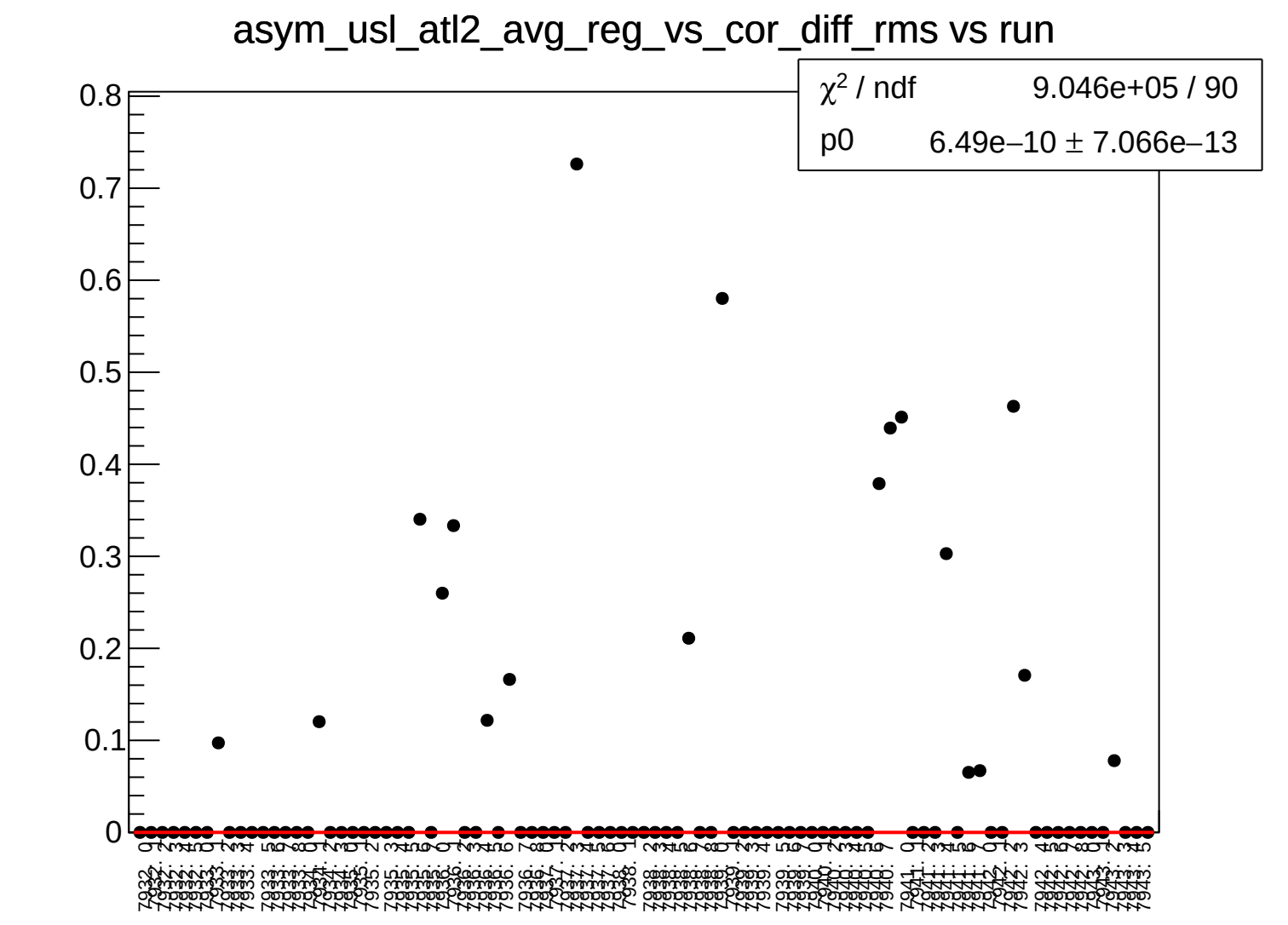

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2762 / 90
p0 5285 ± 4
6200
6000
5800
5600
5400
5200
5000
4800
4600

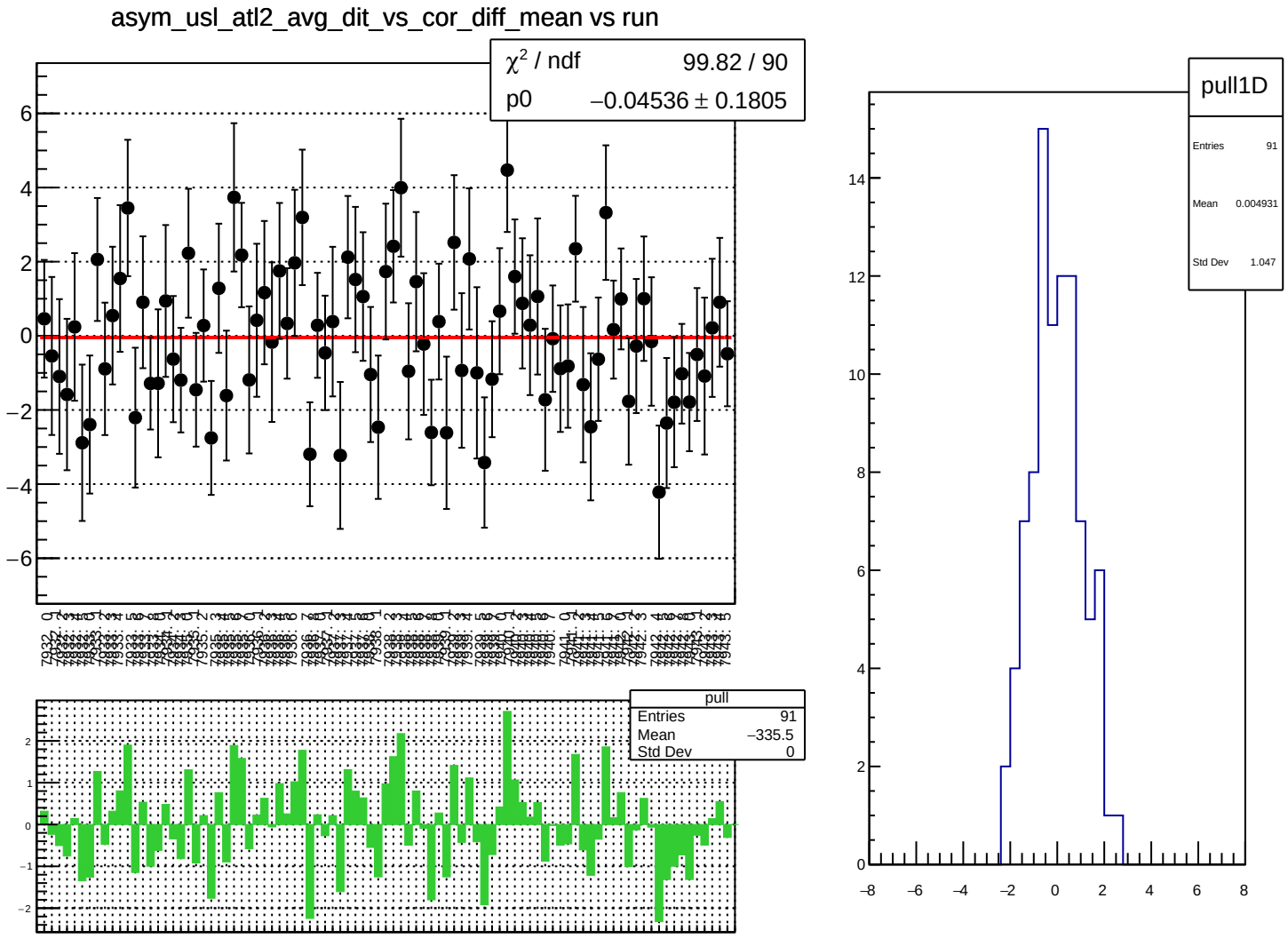

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 119.8 / 90
p0 −6.79 ± 5852
200
100
0
−100
−200
pull
Entries 91
Mean −97.03
Std Dev 0
2
1
0
−1
−2
−3

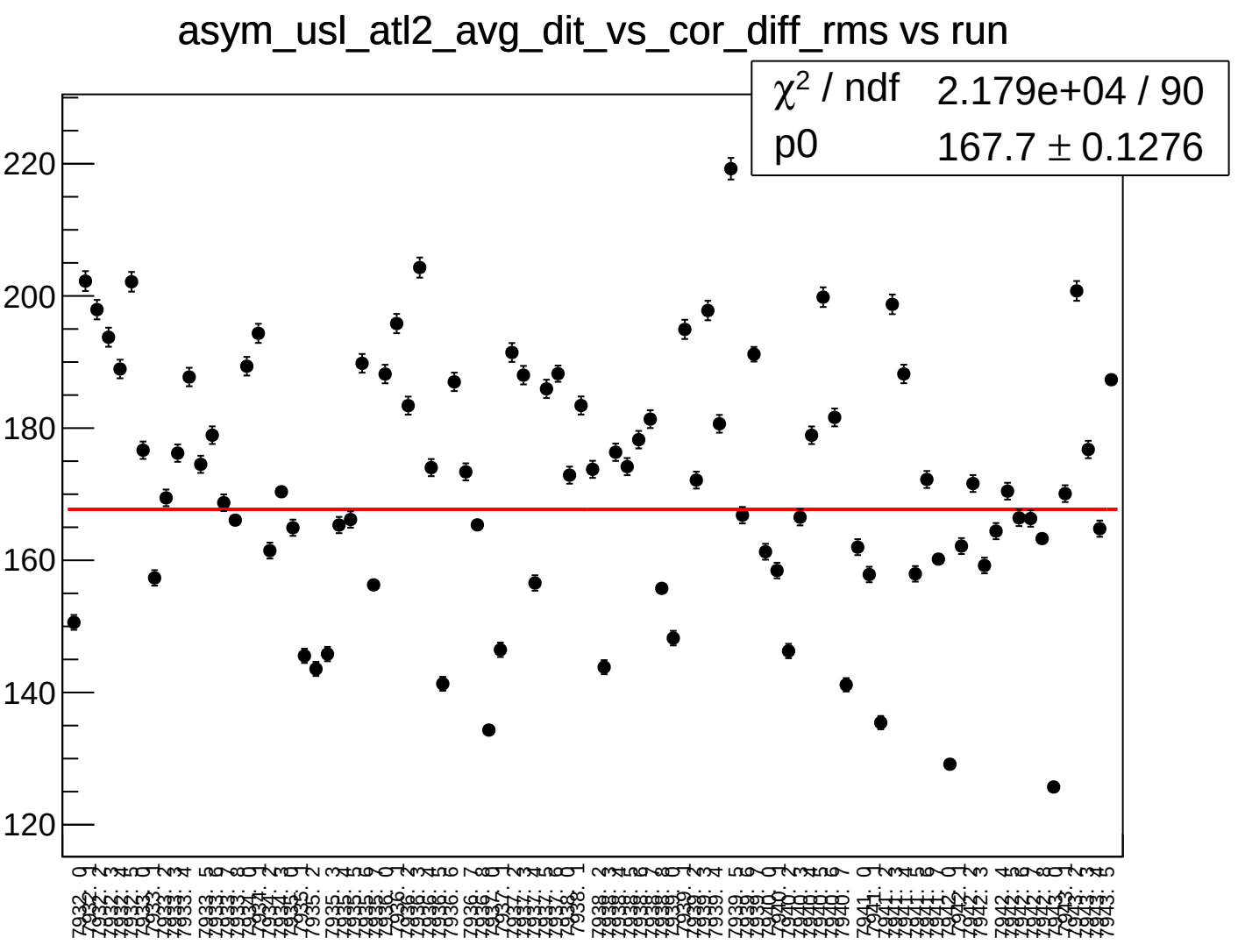

pull1D
Entries 91
Mean 0.003839
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

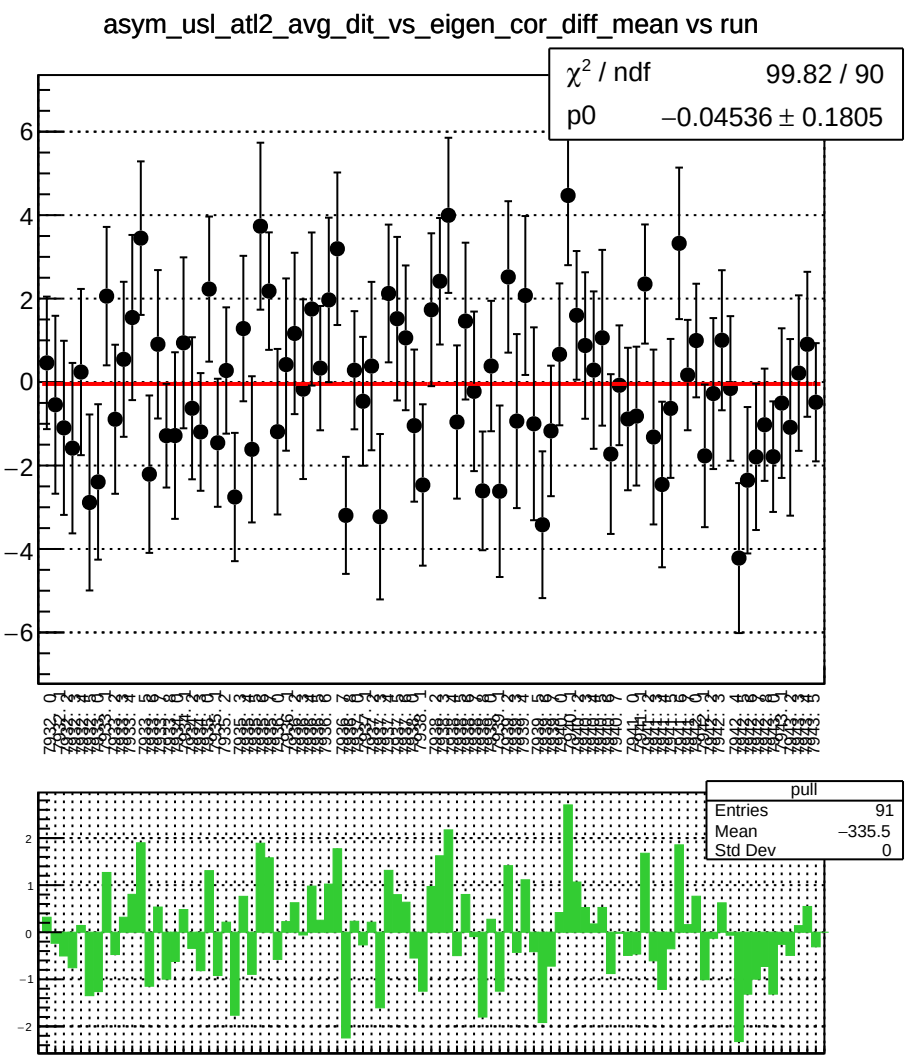

asym_usl_atl2_avg_rms vs run
χ² / ndf 2611 / 90
p0 5468 ± 4.138
6400
6200
6000
5800
5600
5400
5200
5000
4800

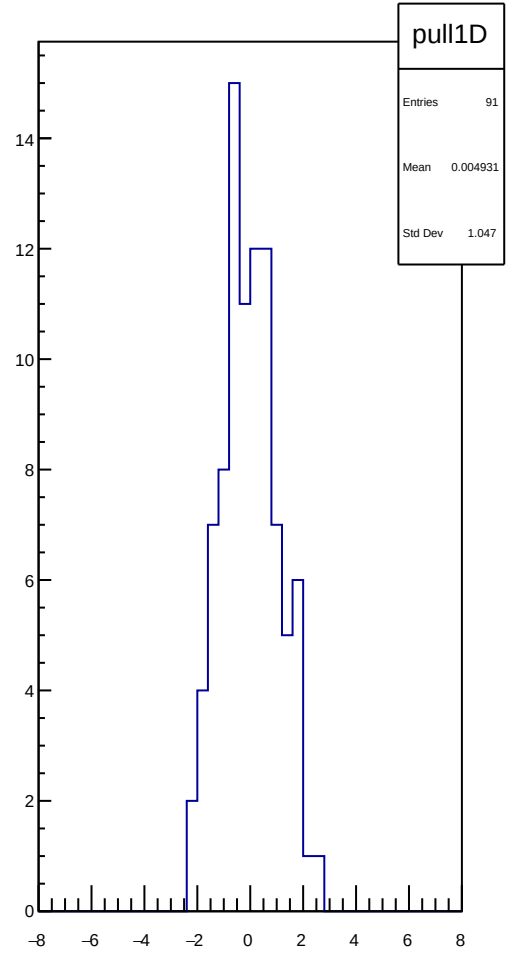

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 90
p0 −2.253e−12 ± 9.993e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 8.381
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1188
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

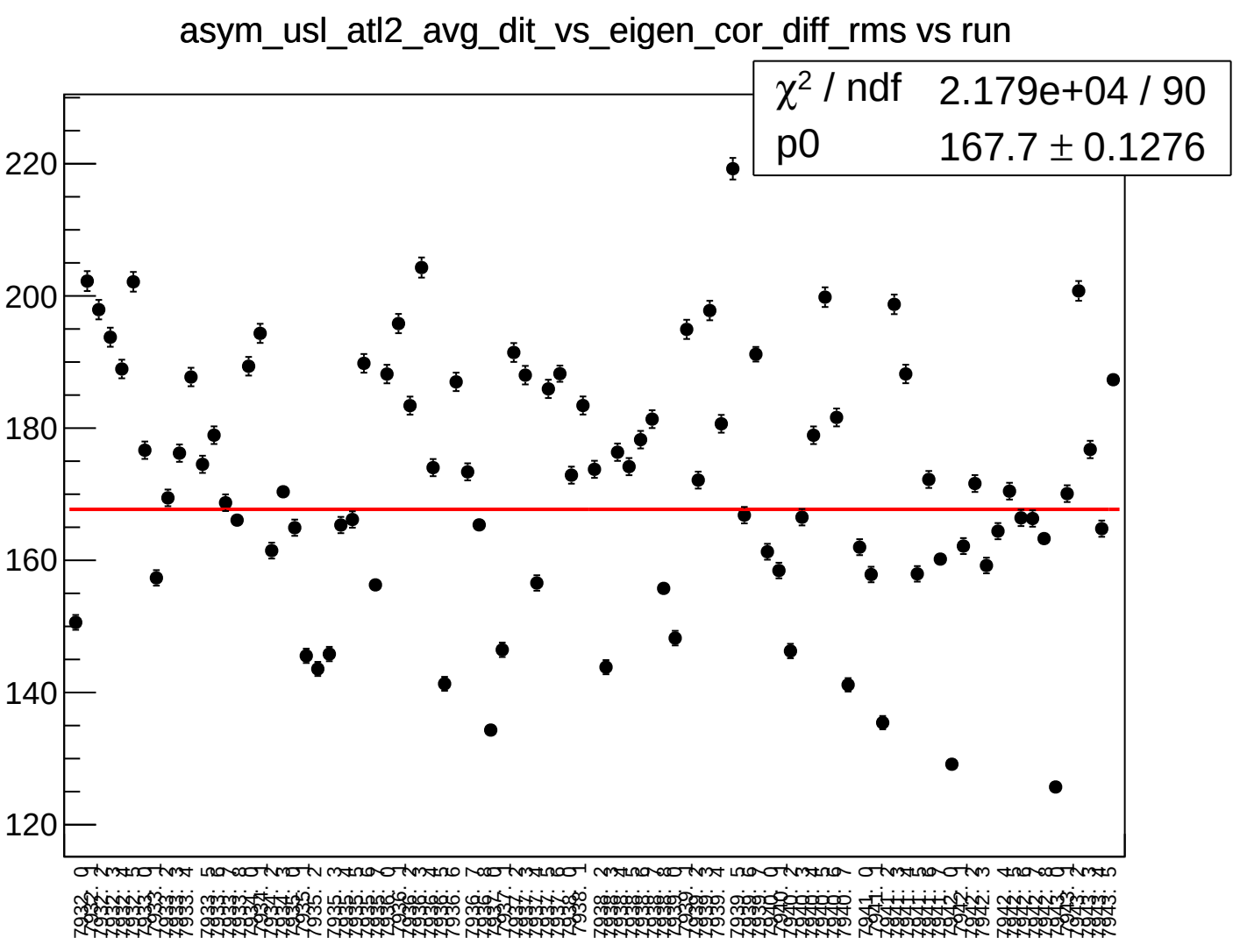

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.046e+05 / 90
p0 6.49e−10 ± 7.066e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

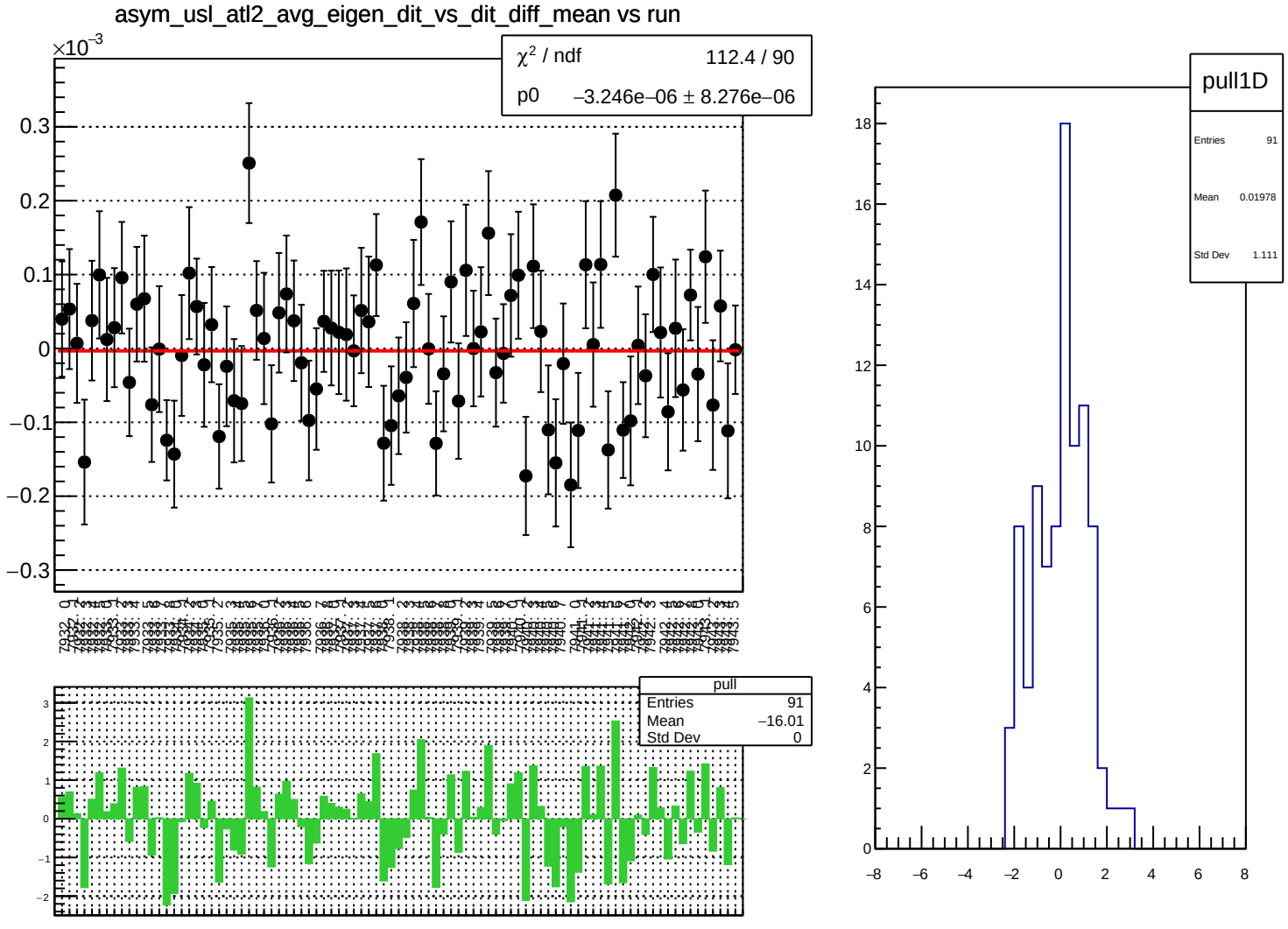

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.82 / 90
p0 −0.04536 ± 0.1805
pull
Entries 91
Mean −335.5
Std Dev 0
pull1D
Entries 91
Mean 0.004931
Std Dev 1.047

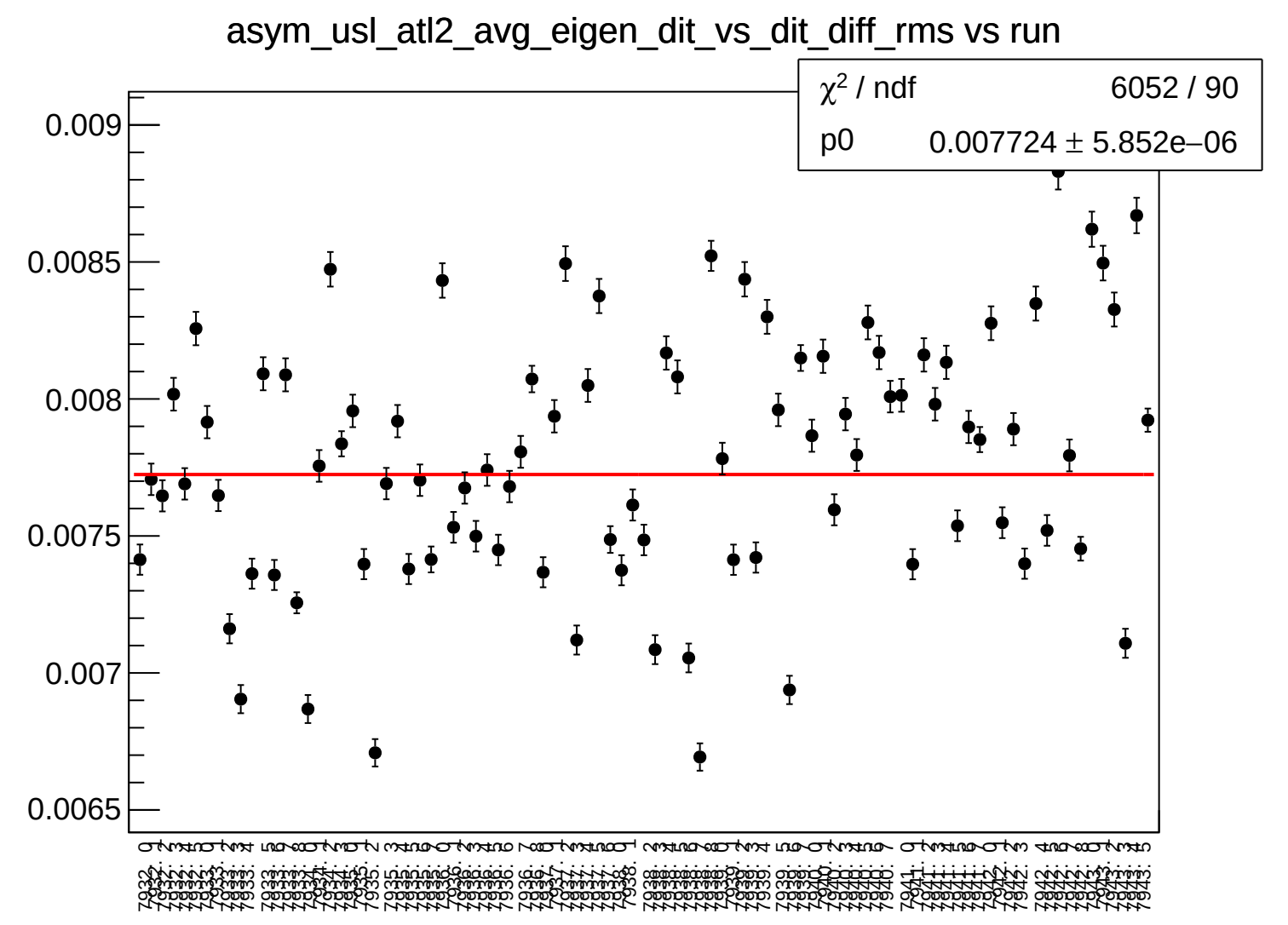

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.179e+04 / 90
p0 167.7 ± 0.1276
220
200
180
160
140
120

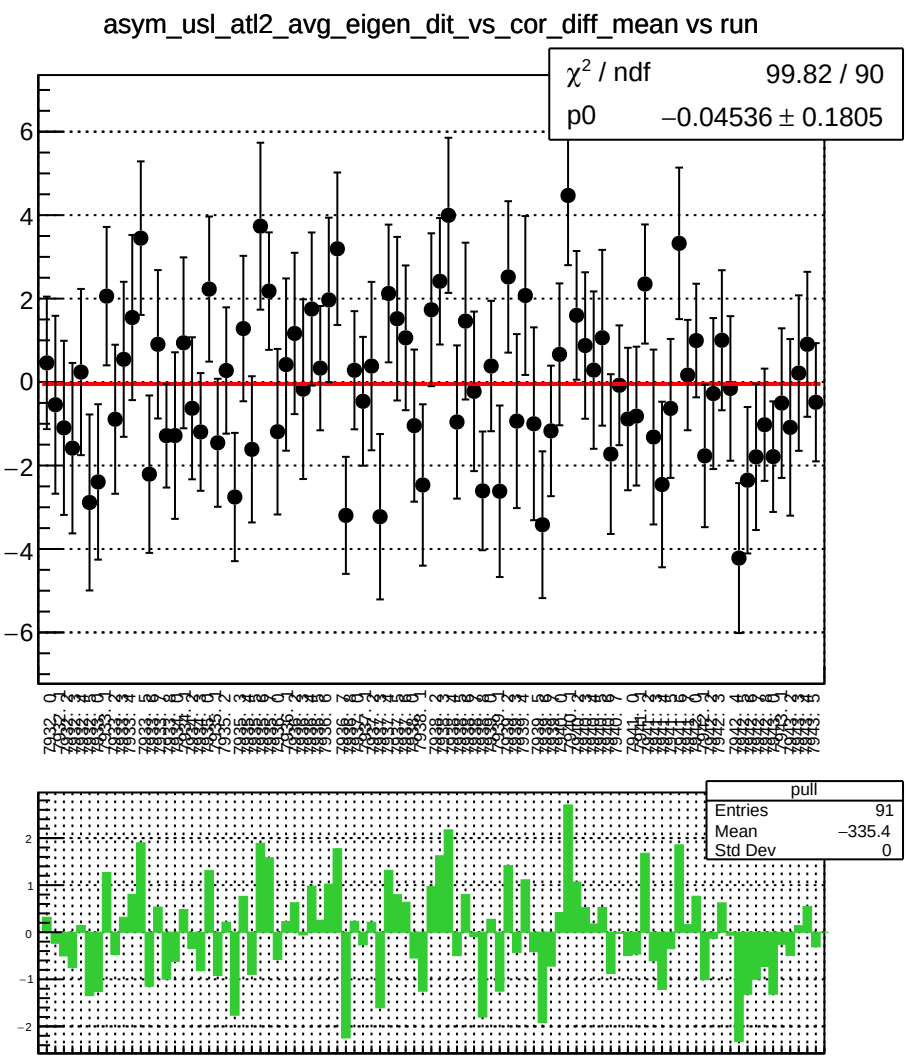

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.82 / 90
p0 −0.04536 ± 0.1805
pull
Entries 91
Mean −335.5
Std Dev 0

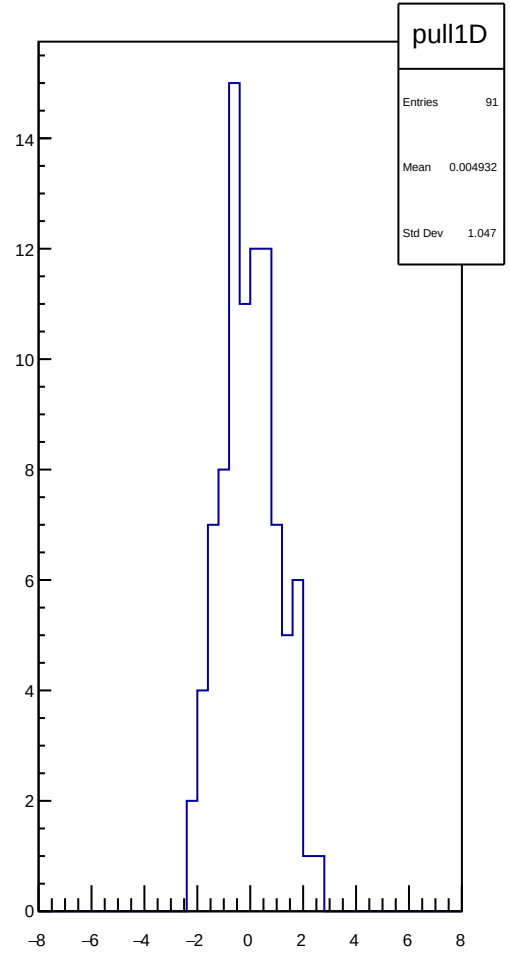

pull1D
Entries 91
Mean 0.004931
Std Dev 1.047

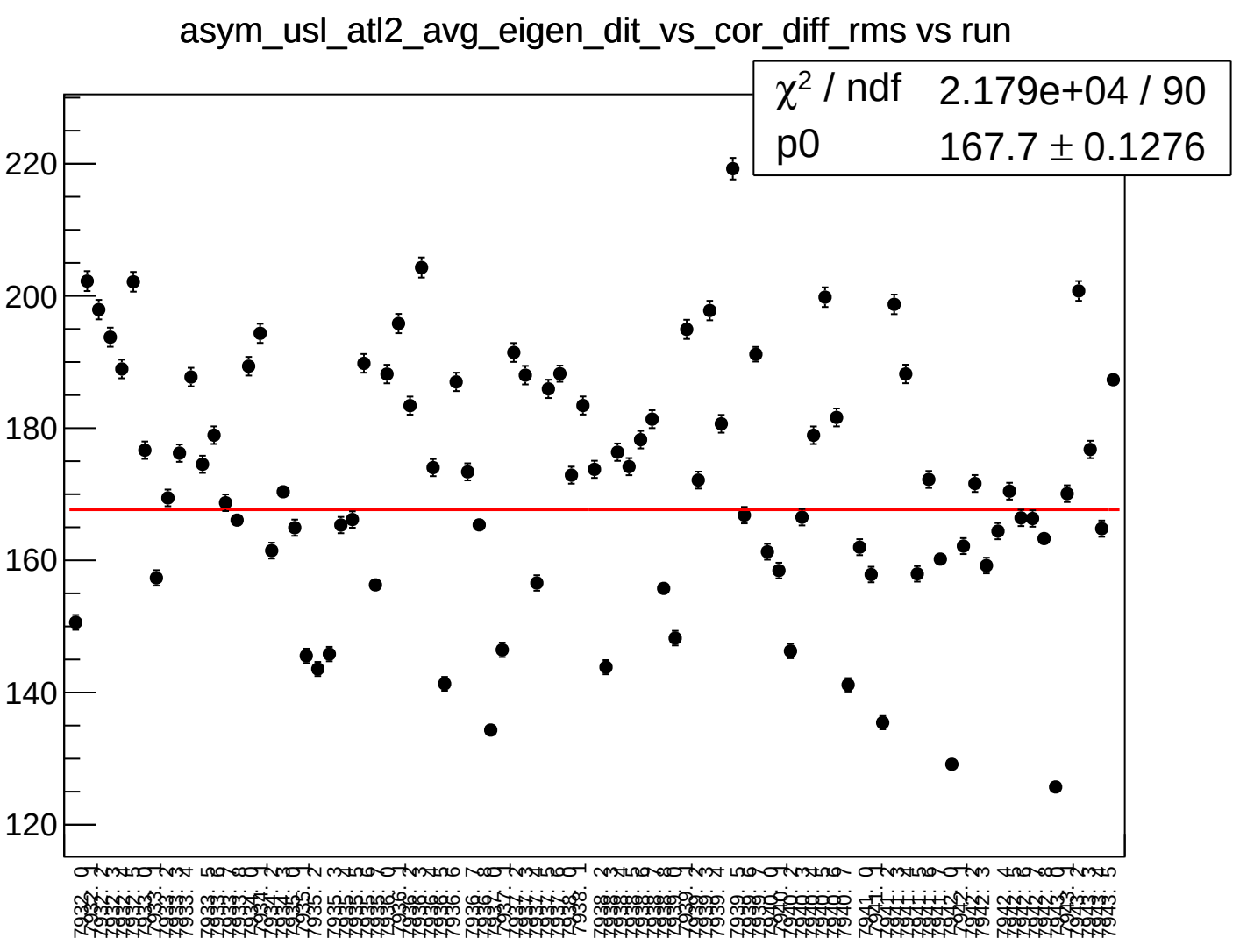

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.179e+04 / 90
p0 167.7 ± 0.1276
220
200
180
160
140
120

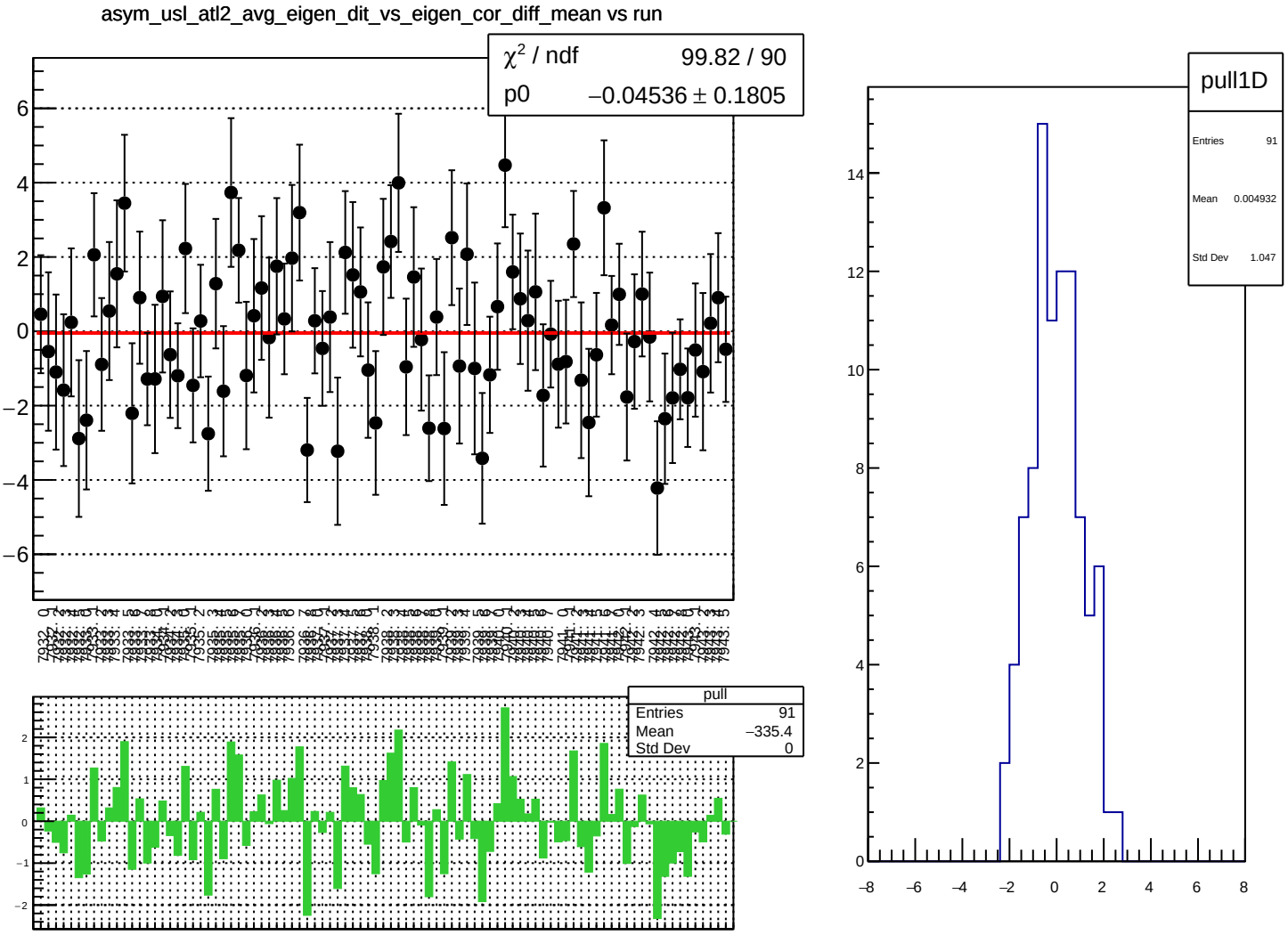

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 112.4 / 90
p0 −3.246e−06 ± 8.276e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 91
Mean −16.01
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01978
Std Dev 1.111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

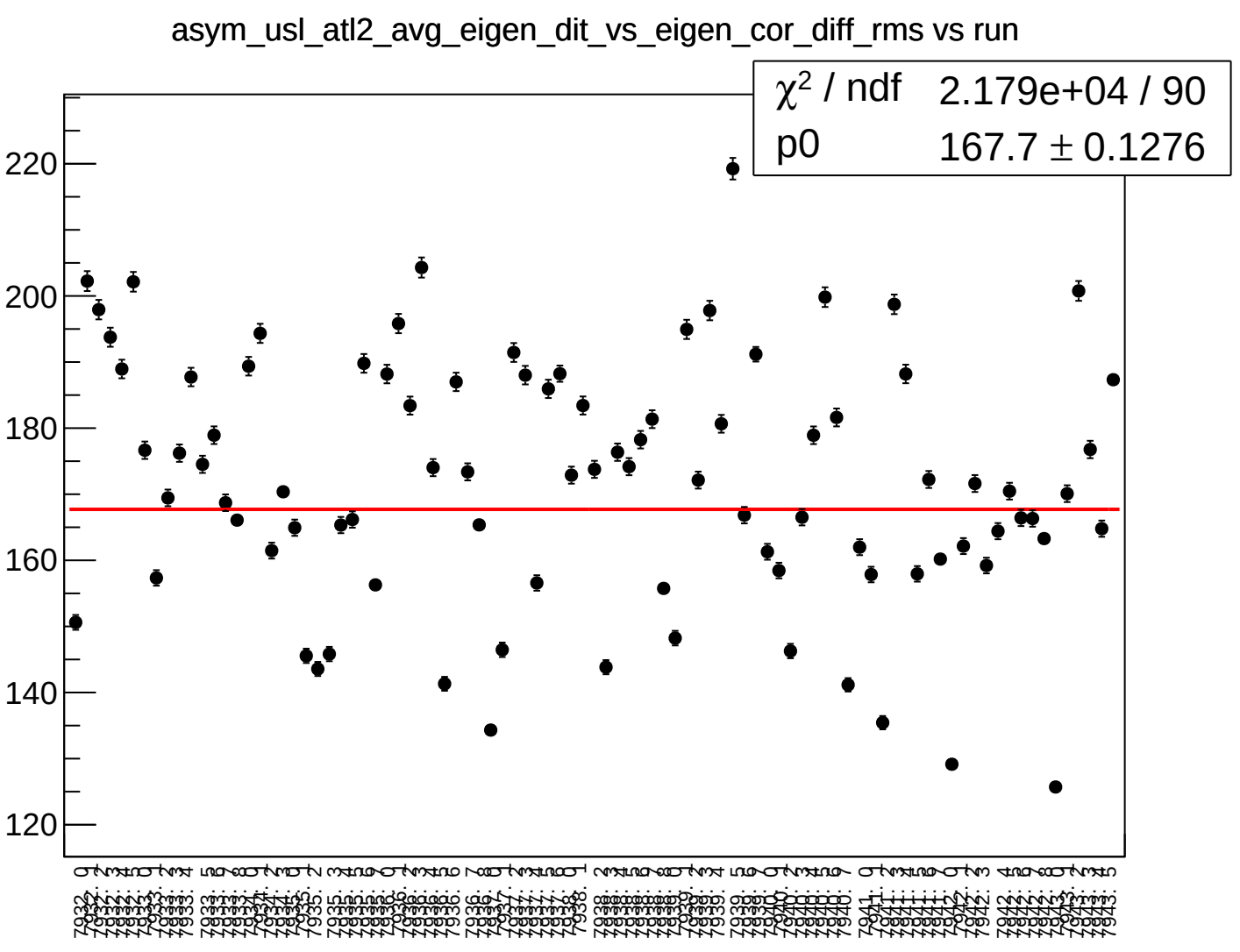

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6052 / 90
p0 0.007724 ± 5.852e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

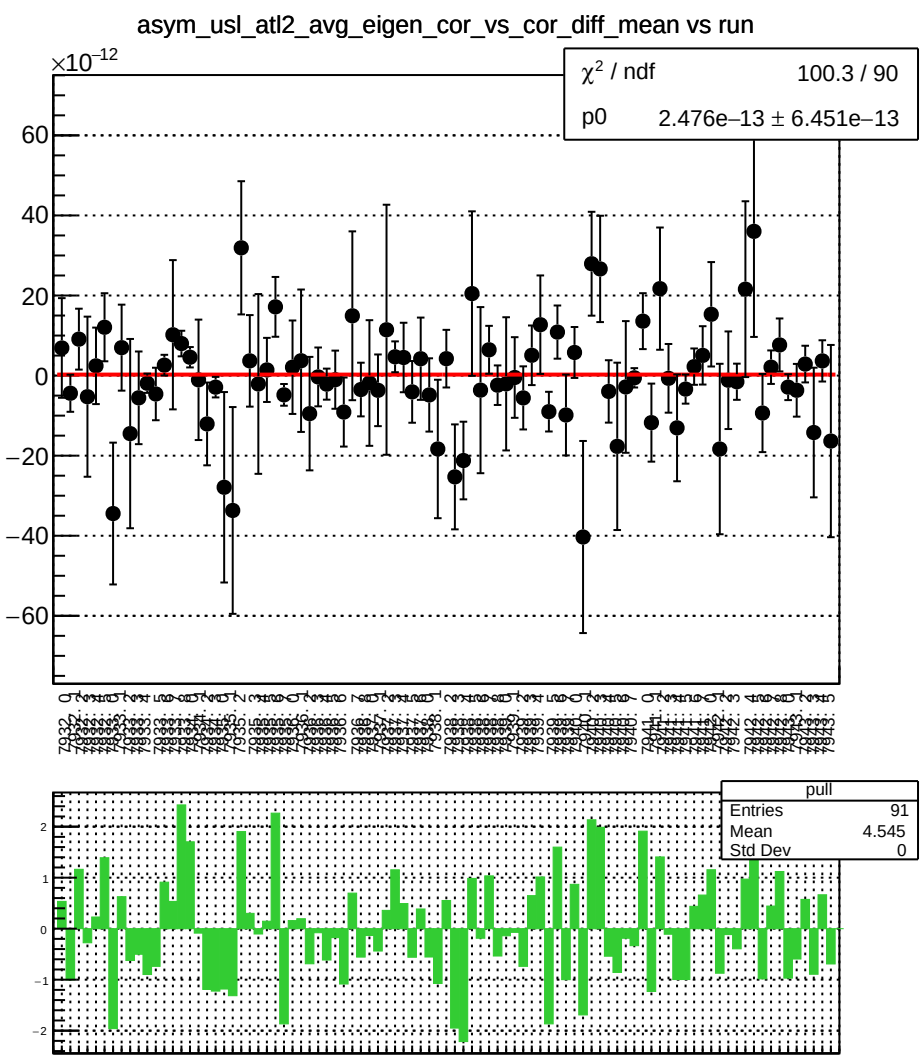

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.82 / 90
p0 −0.04536 ± 0.1805
pull
Entries 91
Mean −335.4
Std Dev 0

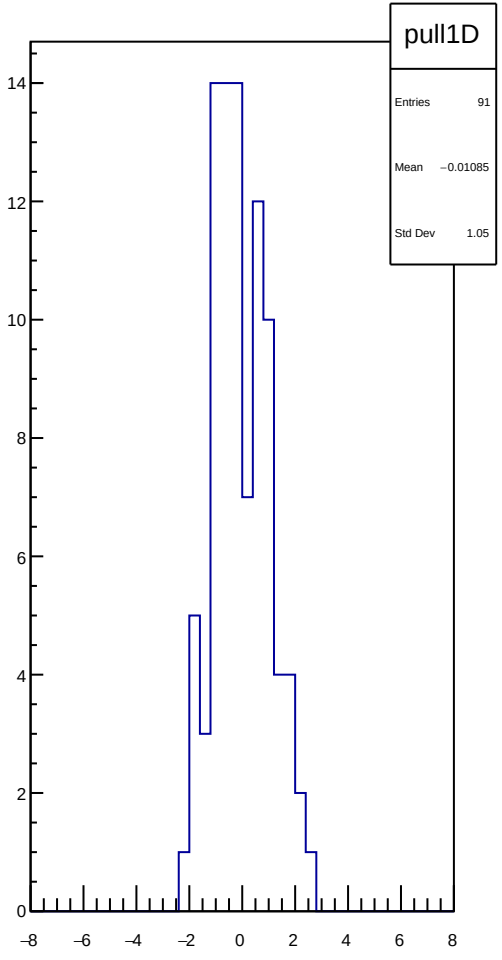

pull1D
Entries 91
Mean 0.004932
Std Dev 1.047

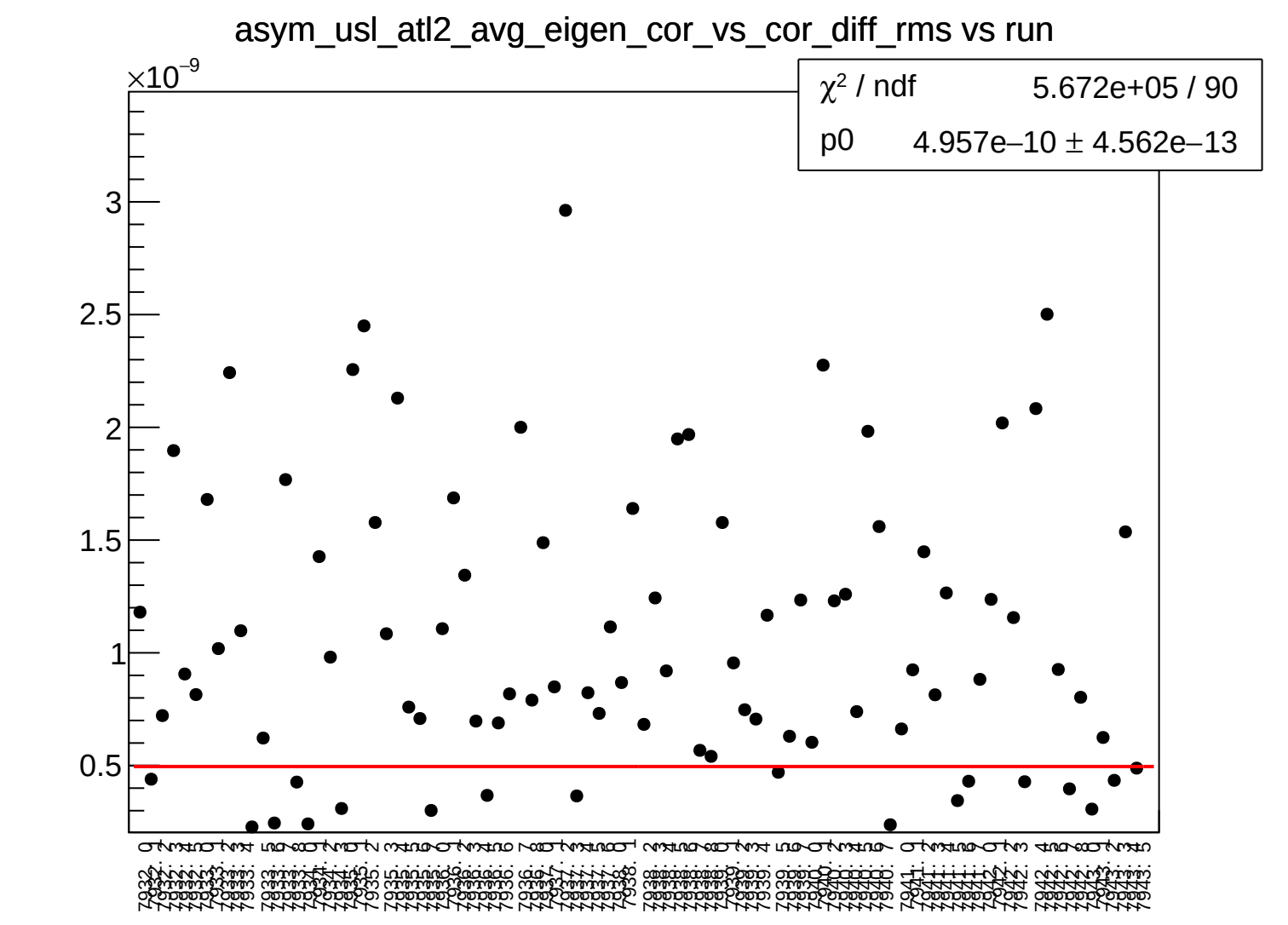

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.179e+04 / 90
p0 167.7 ± 0.1276
220
200
180
160
140
120

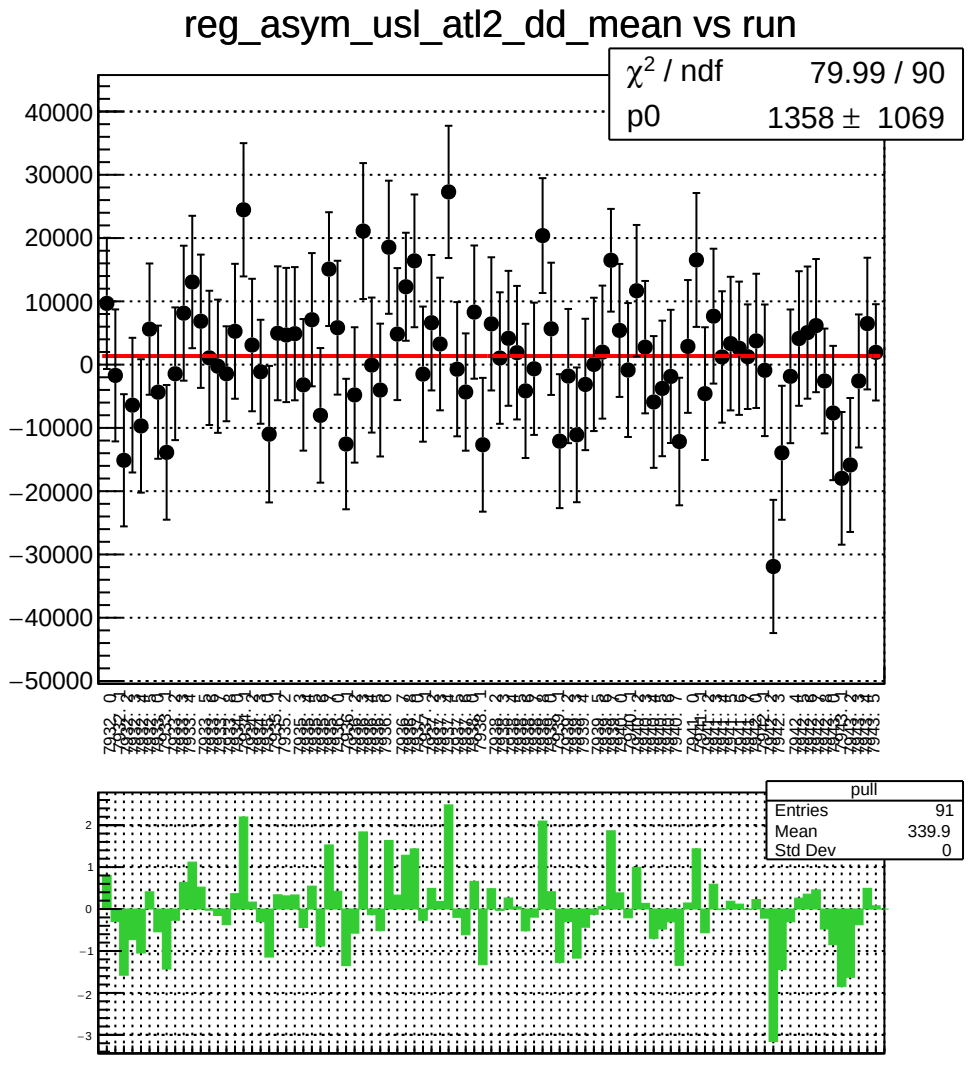

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.82 / 90
p0 −0.04536 ± 0.1805
pull
Entries 91
Mean −335.4
Std Dev 0
pull1D
Entries 91
Mean 0.004932
Std Dev 1.047

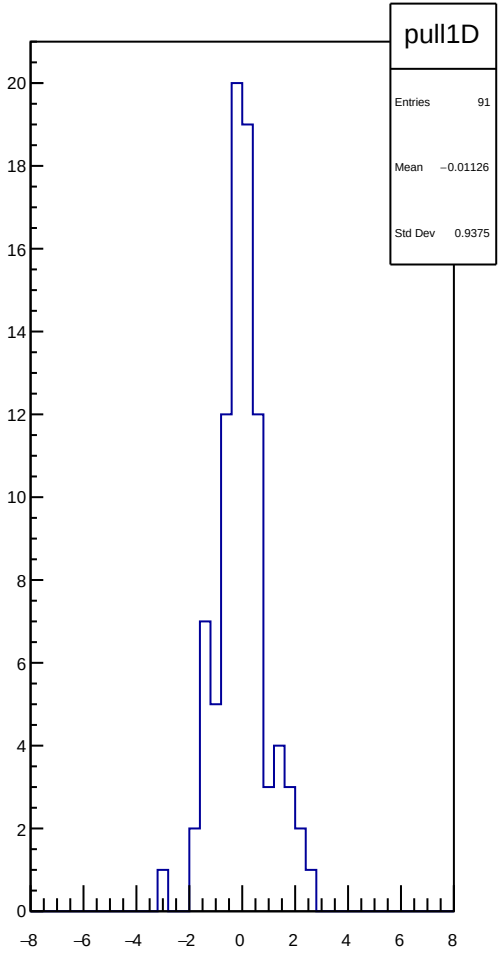

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.179e+04 / 90
p0 167.7 ± 0.1276
220
200
180
160
140
120

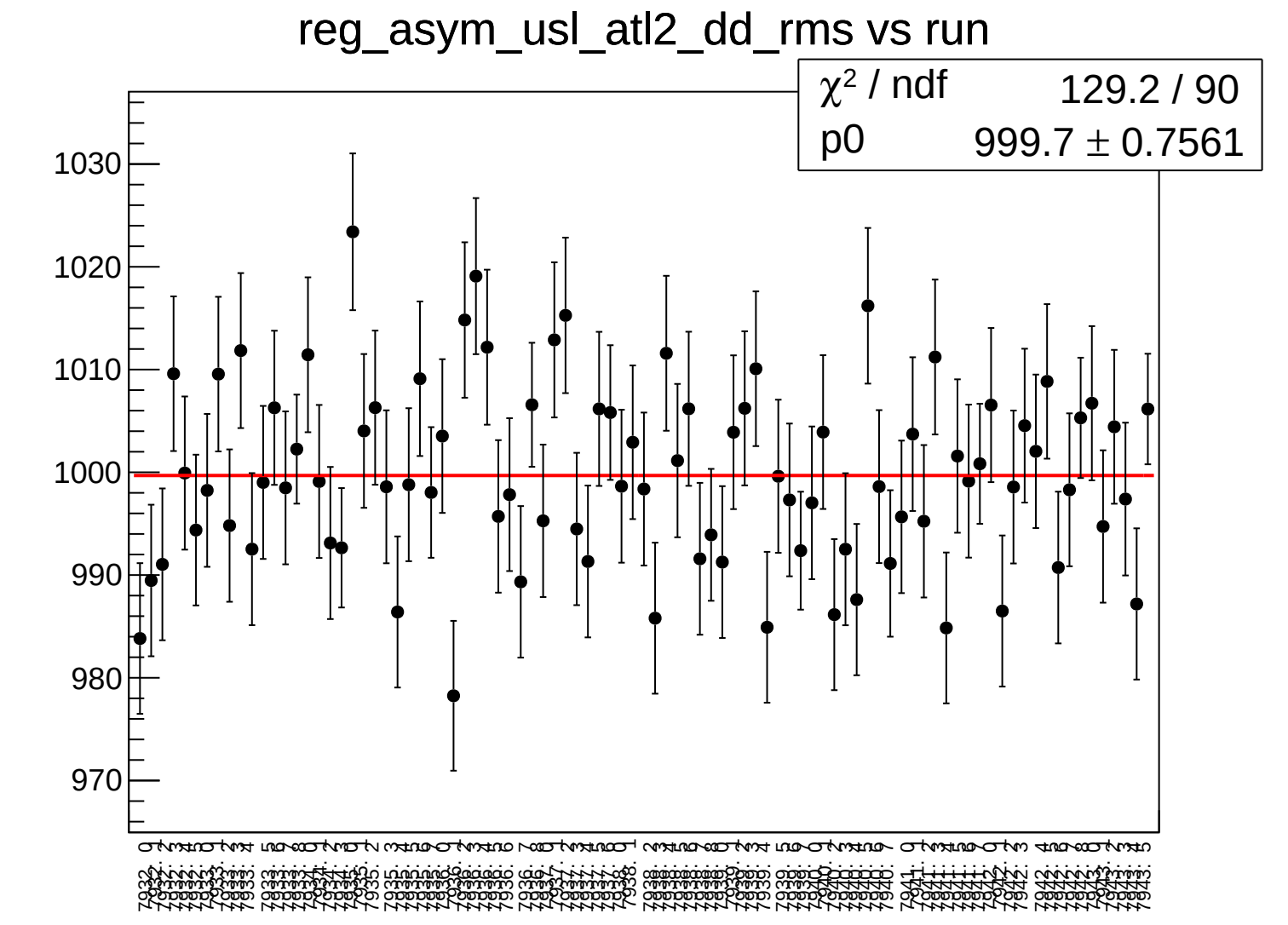

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.3 / 90
p0 2.476e−13 ± 6.451e−13
pull
Entries 91
Mean 4.545
Std Dev 0

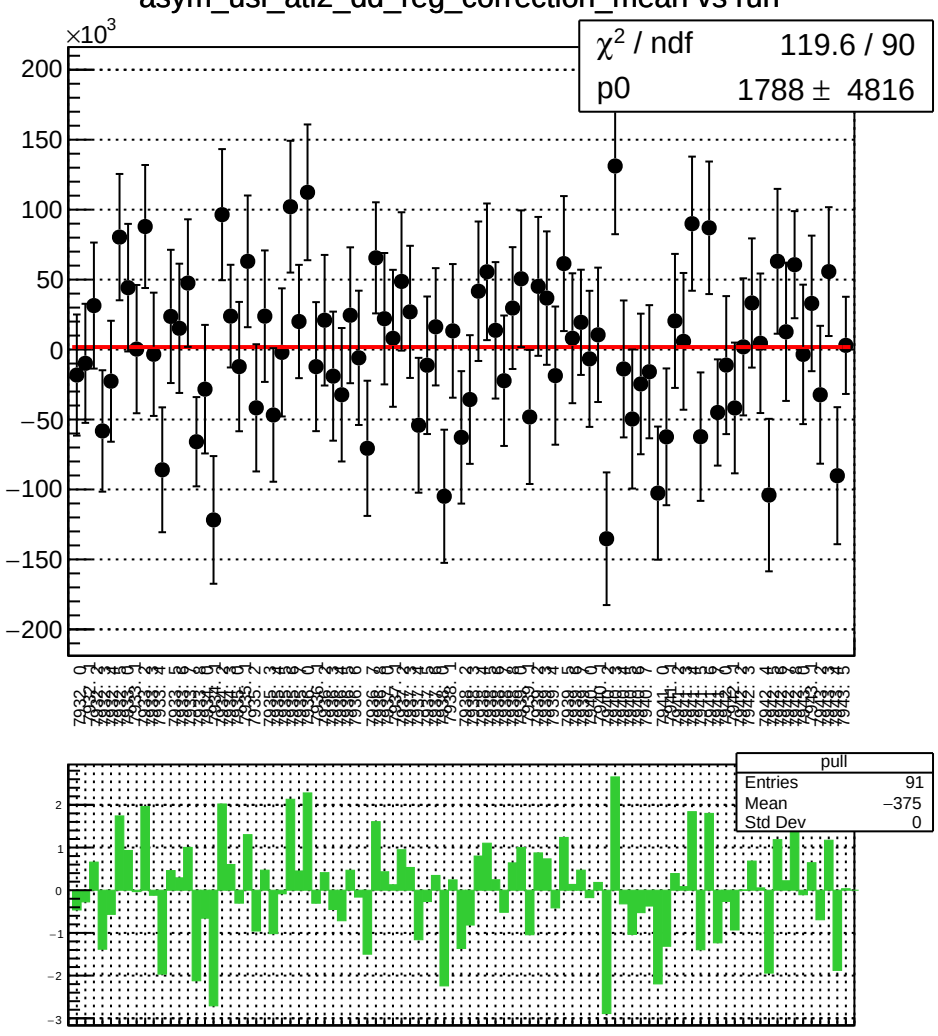

pull1D
Entries 91
Mean −0.01085
Std Dev 1.05

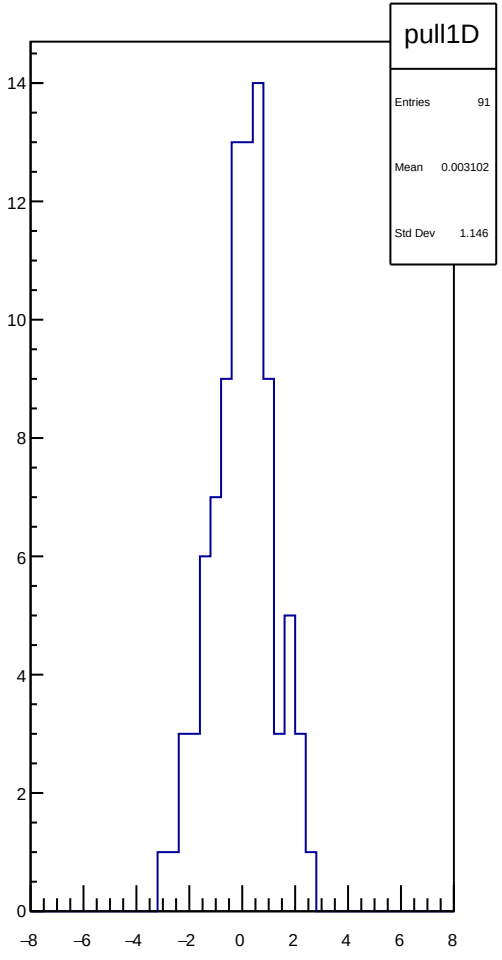

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.672e+05 / 90
p0 4.957e−10 ± 4.562e−13
3
2.5
2
1.5
1
0.5

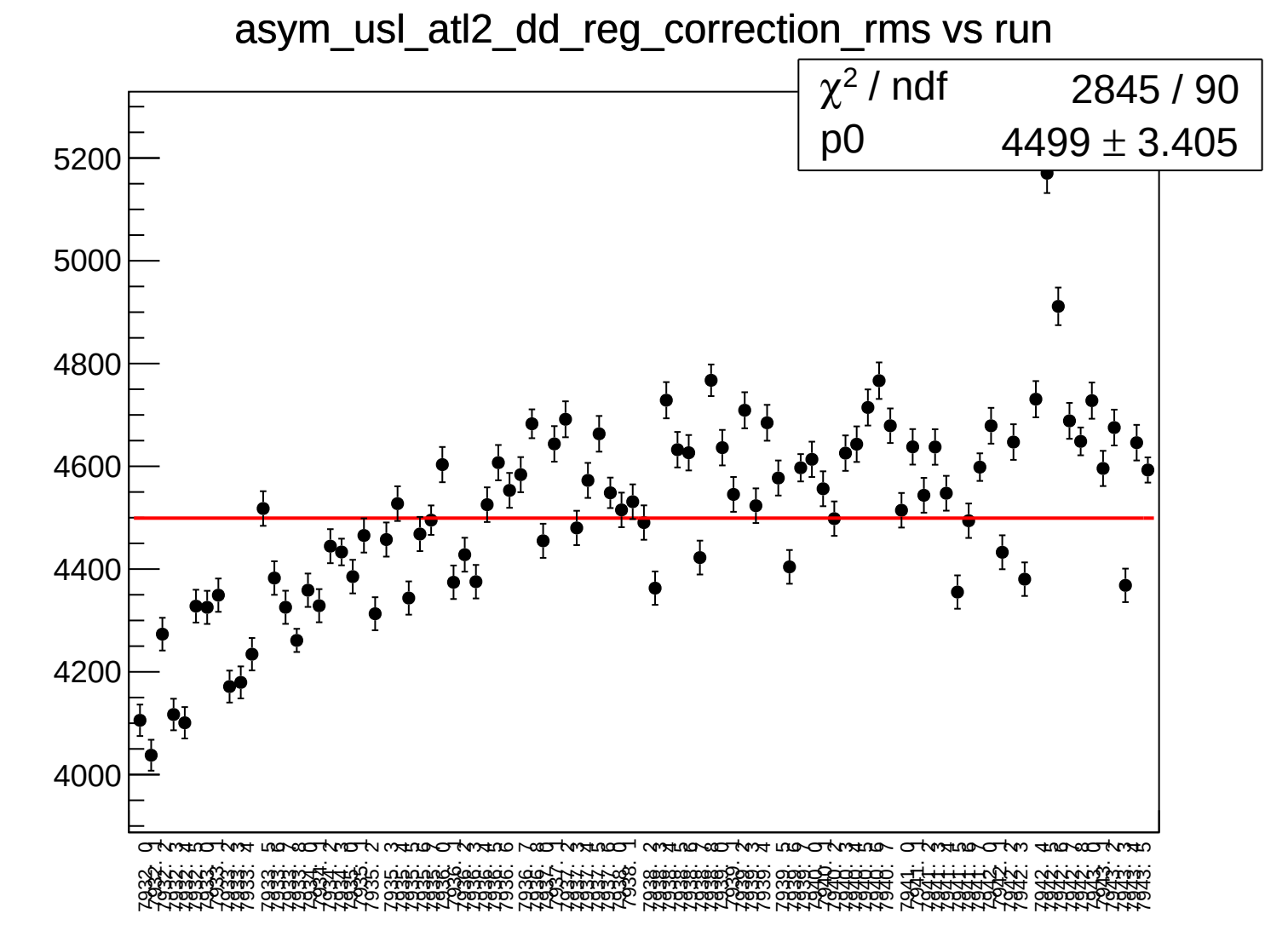

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 79.99 / 90
p0 1358 ± 1069
pull
Entries 91
Mean 339.9
Std Dev 0

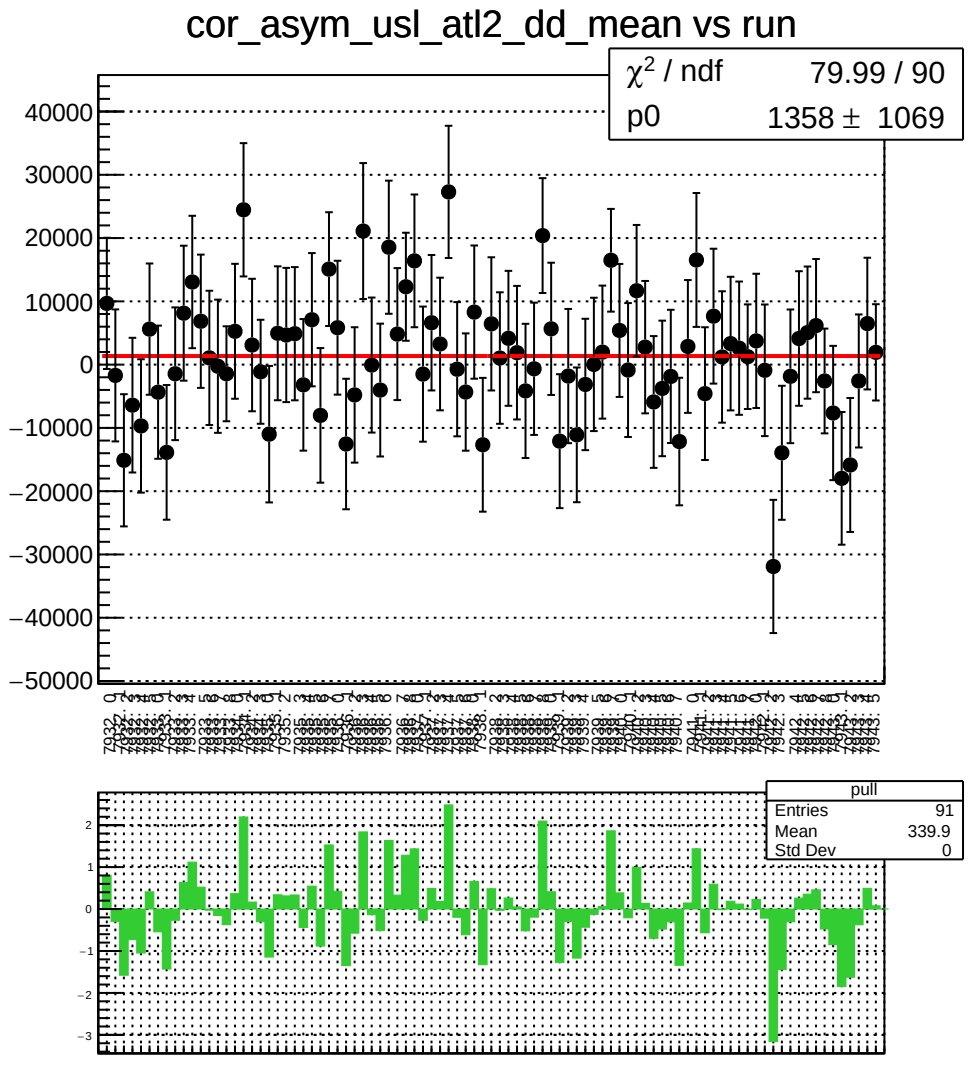

pull1D
Entries 91
Mean −0.01126
Std Dev 0.9375

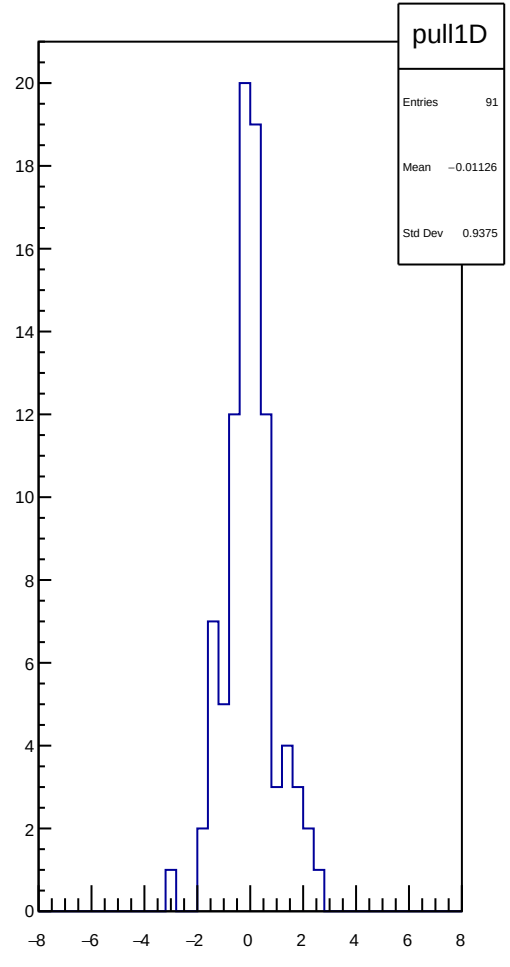

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 129.2 / 90
p0 999.7 ± 0.7561
1030
1020
1010
1000
990
980
970

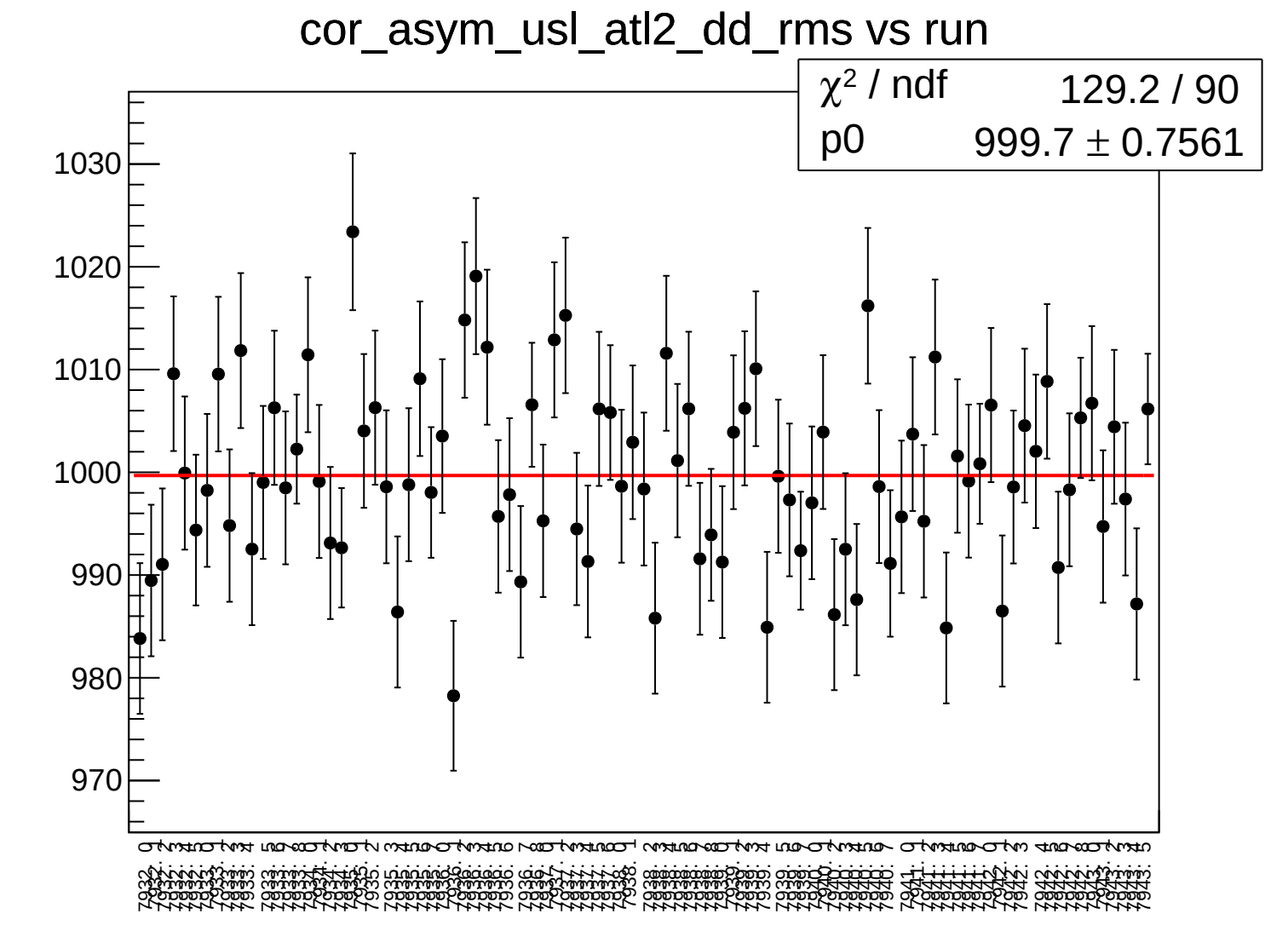

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 119.6 / 90
p0 1788 ± 4816
pull
Entries 91
Mean −375
Std Dev 0

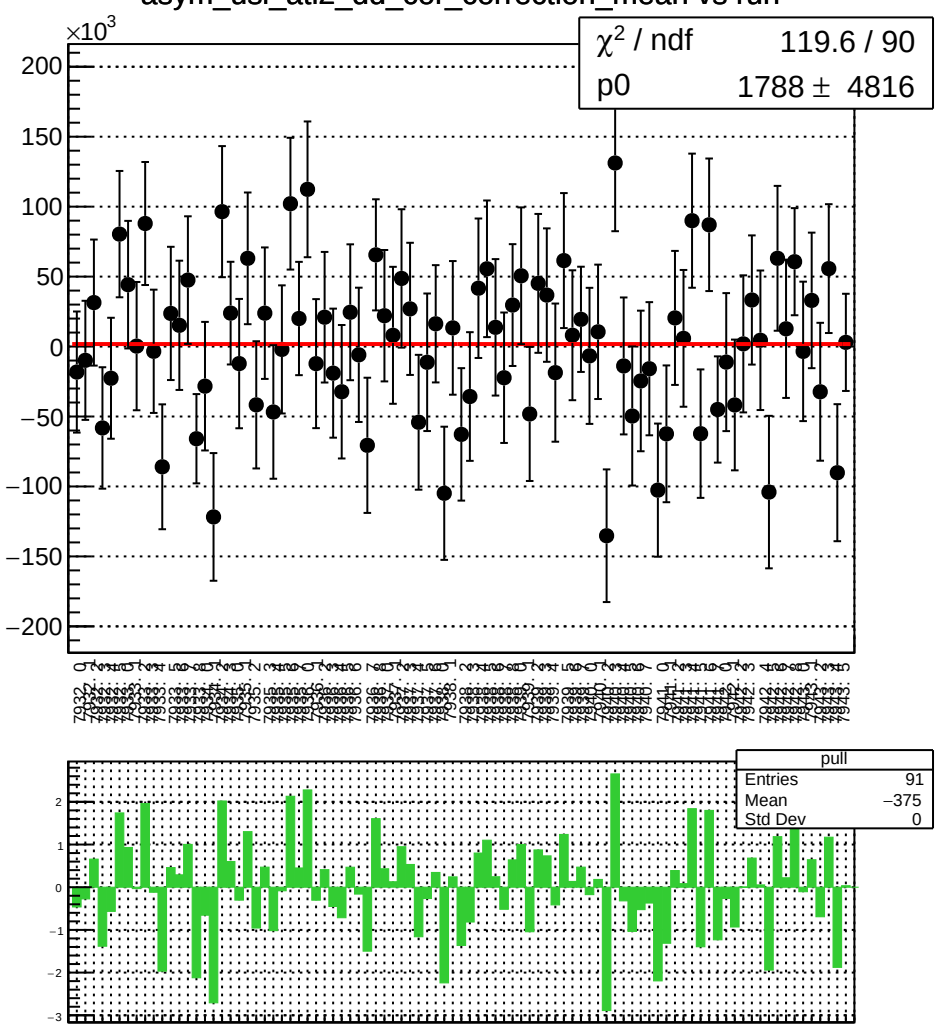

pull1D
Entries 91
Mean 0.003102
Std Dev 1.146

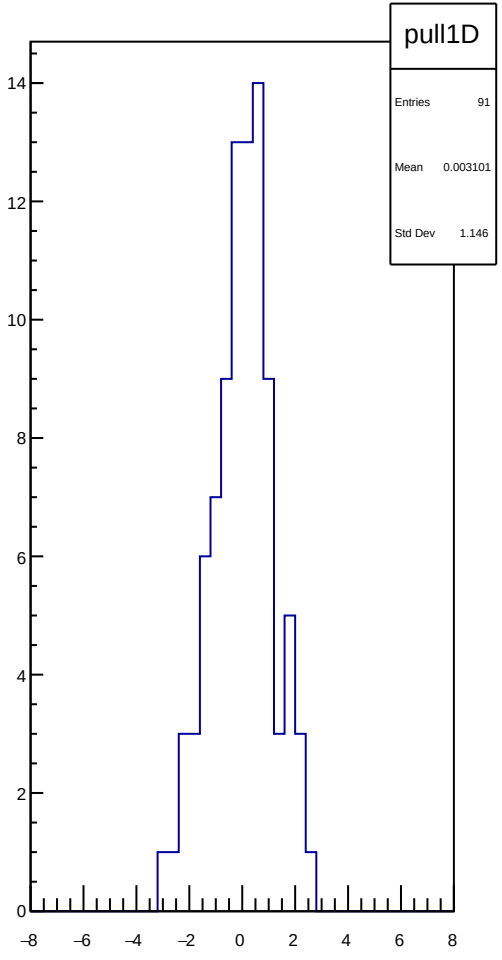

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2845 / 90
p0 4499 ± 3.405
5200
5000
4800
4600
4400
4200
4000

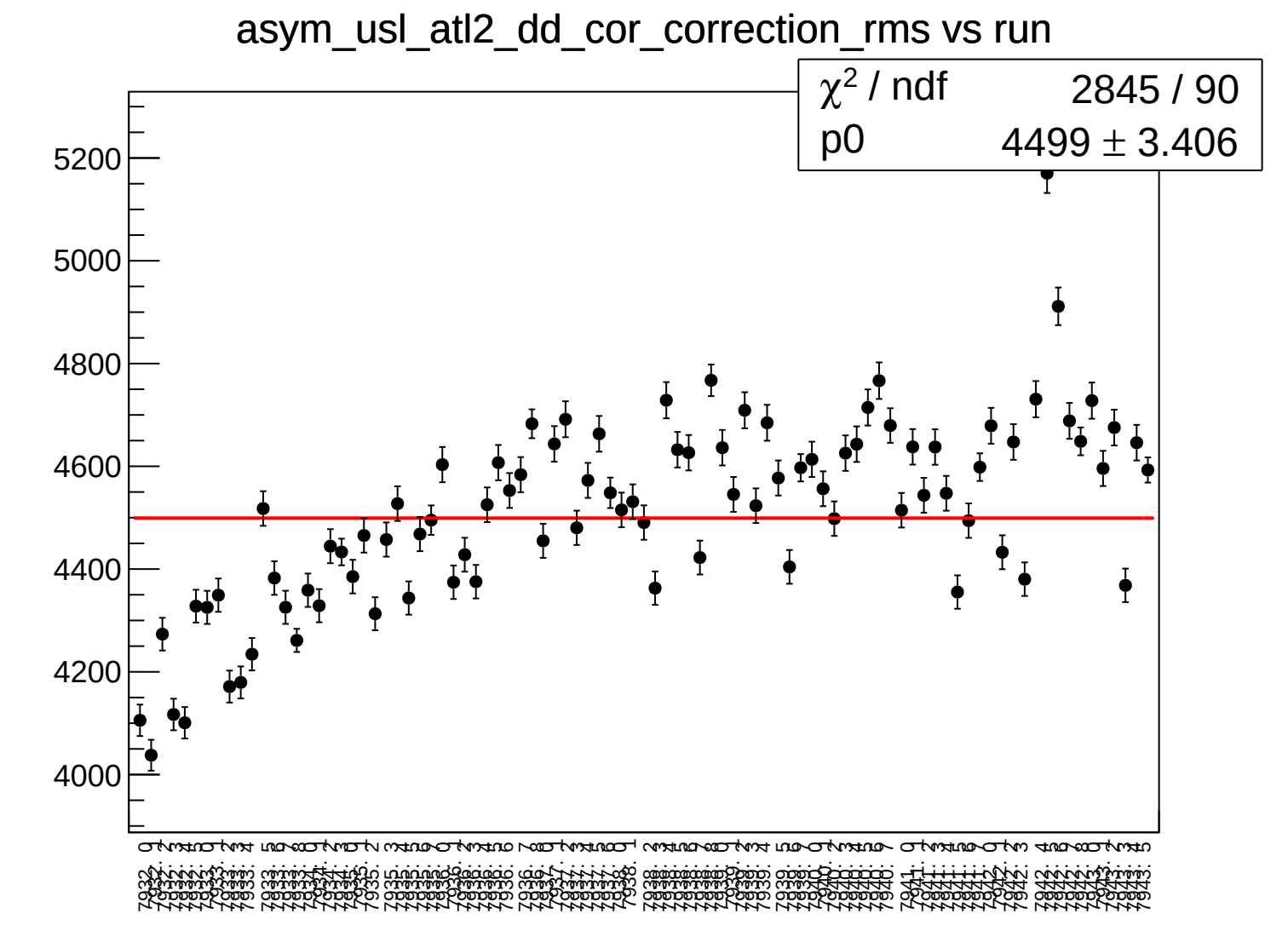

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 79.99 / 90
p0 1358 ± 1069
pull
Entries 91
Mean 339.9
Std Dev 0

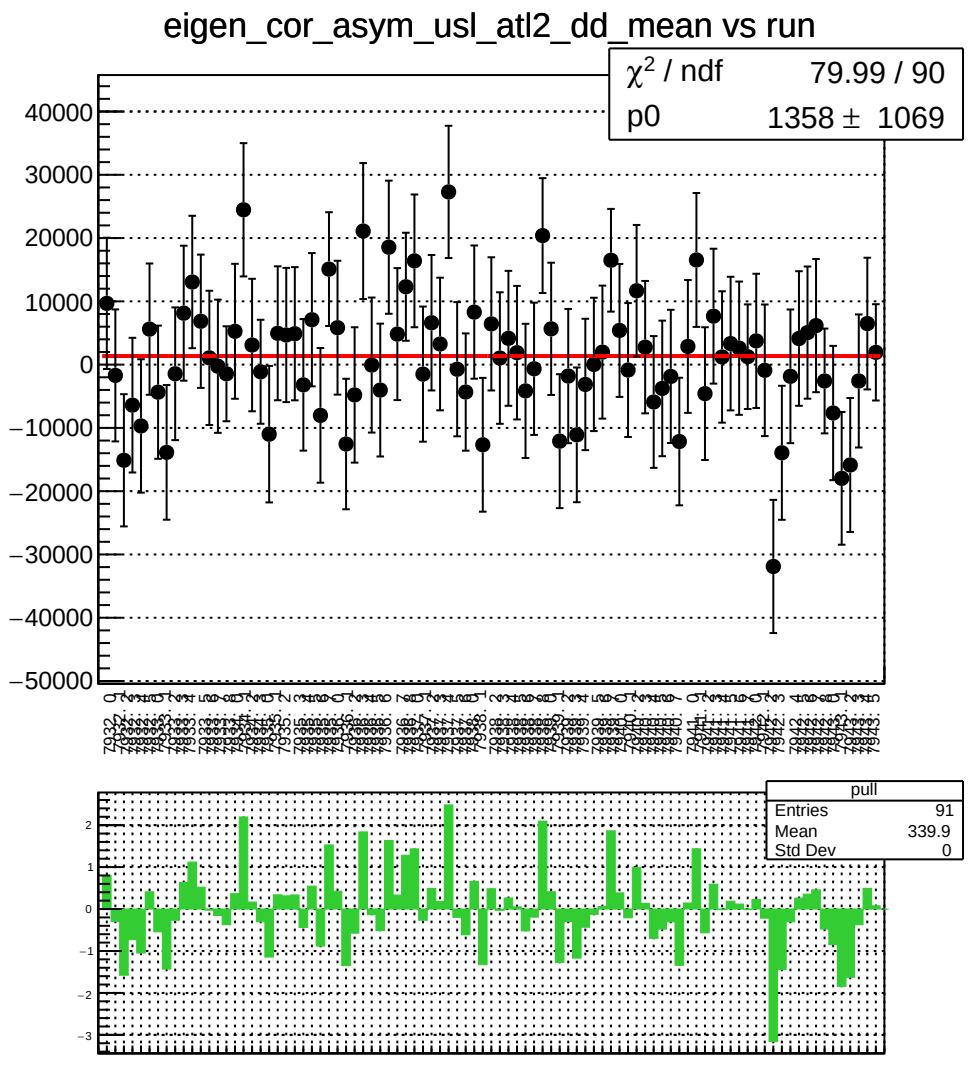

pull1D
Entries 91
Mean −0.01126
Std Dev 0.9375

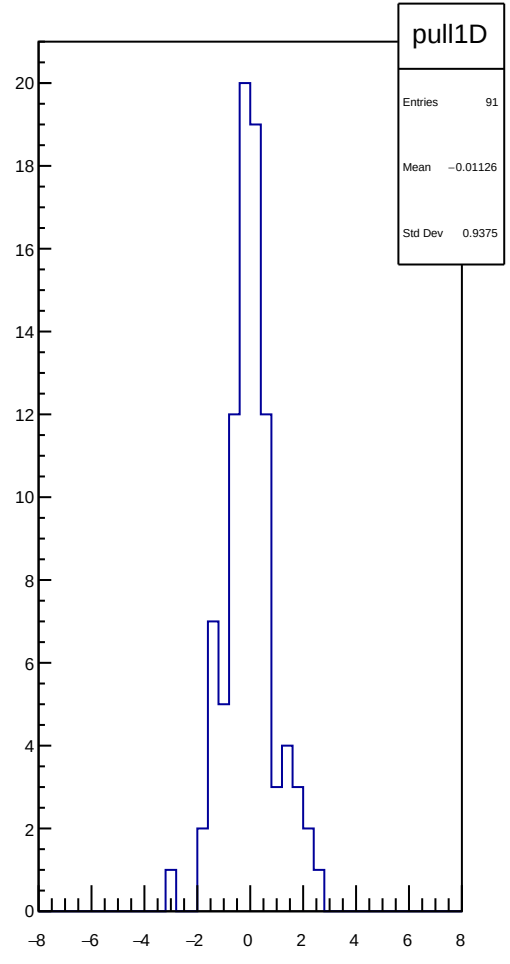

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 129.2 / 90
p0 999.7 ± 0.7561
1030
1020
1010
1000
990
980
970

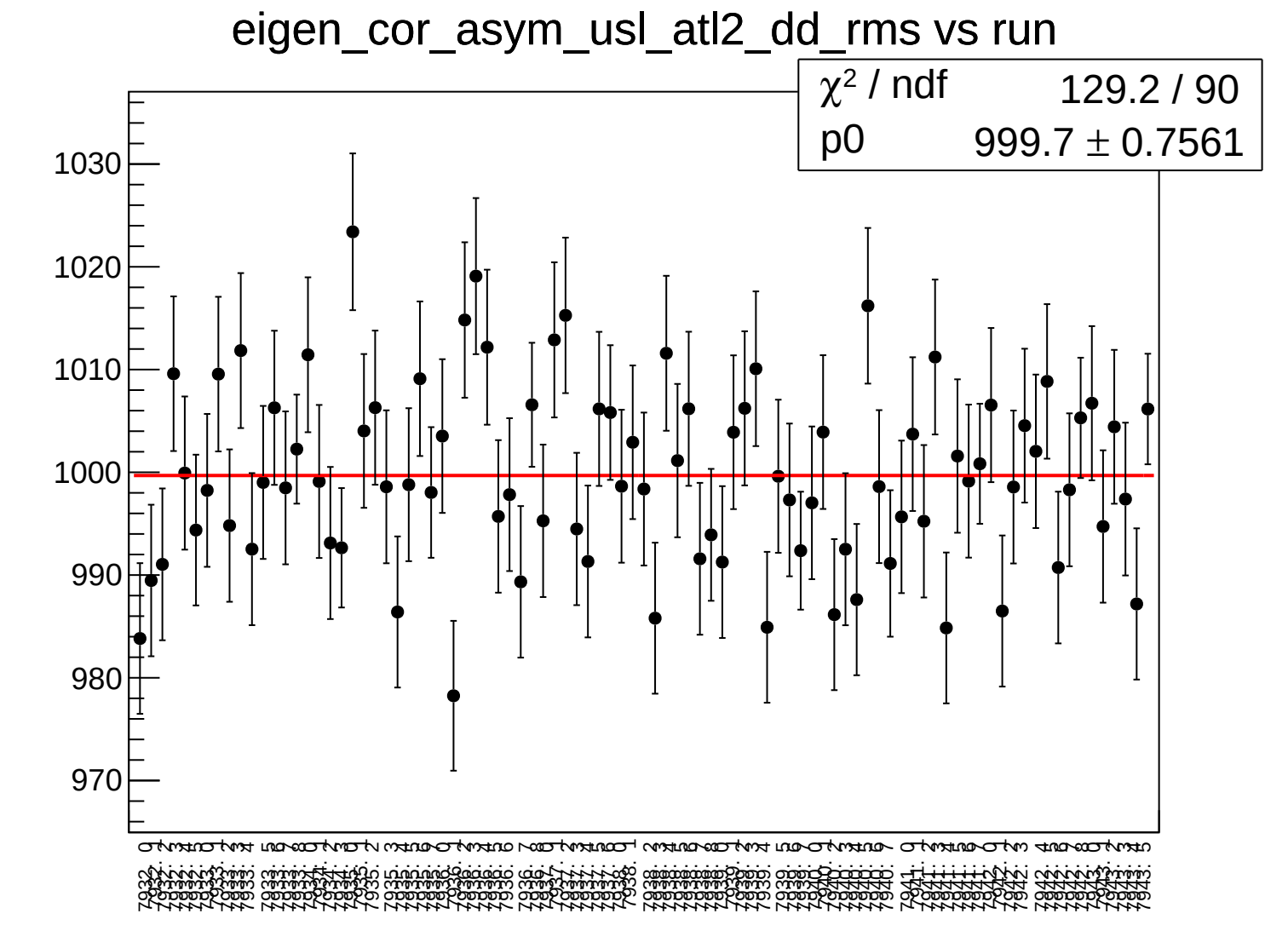

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 119.6 / 90
p0 1788 ± 4816
pull
Entries 91
Mean −375
Std Dev 0

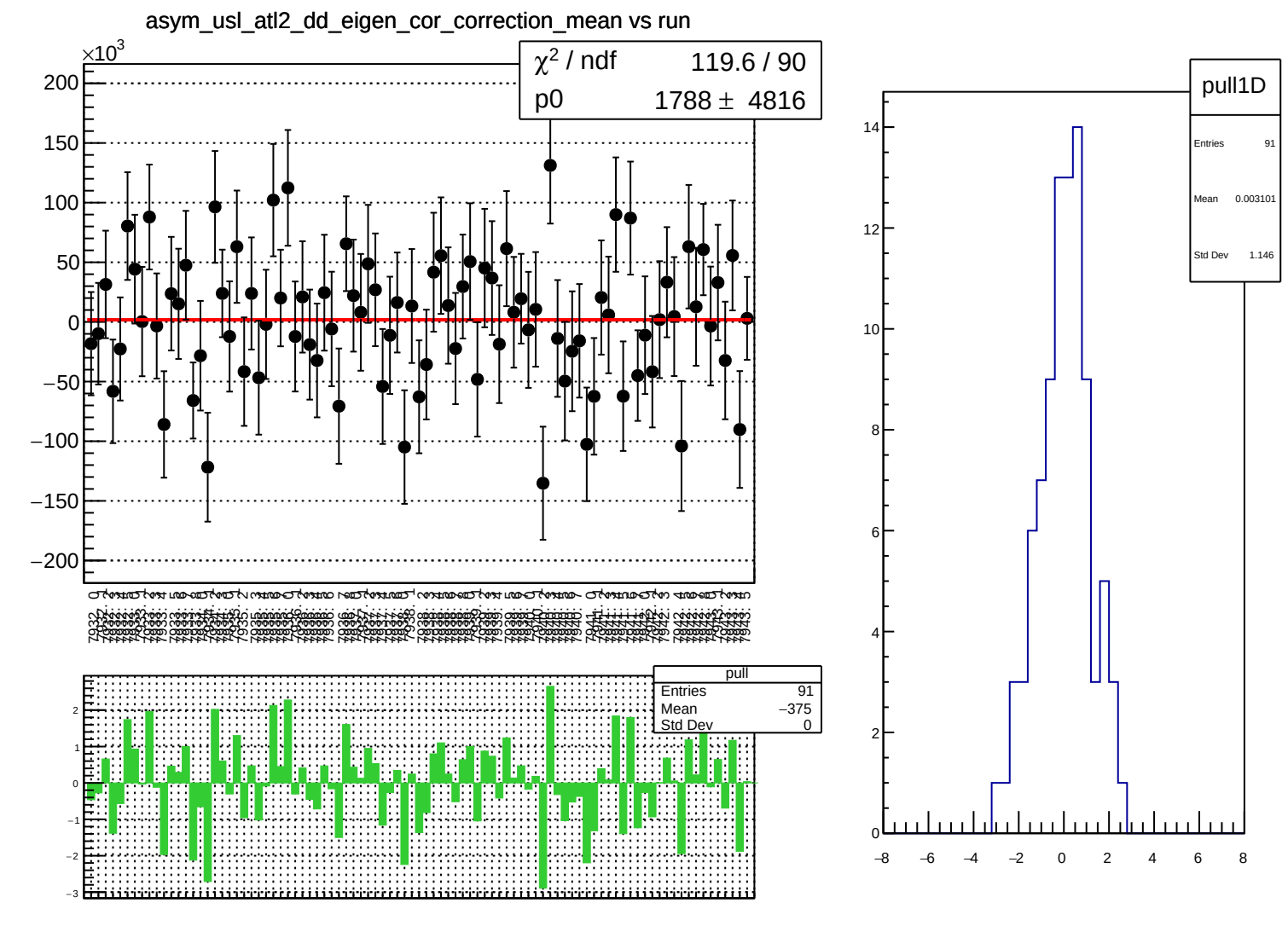

pull1D
Entries 91
Mean 0.003101
Std Dev 1.146

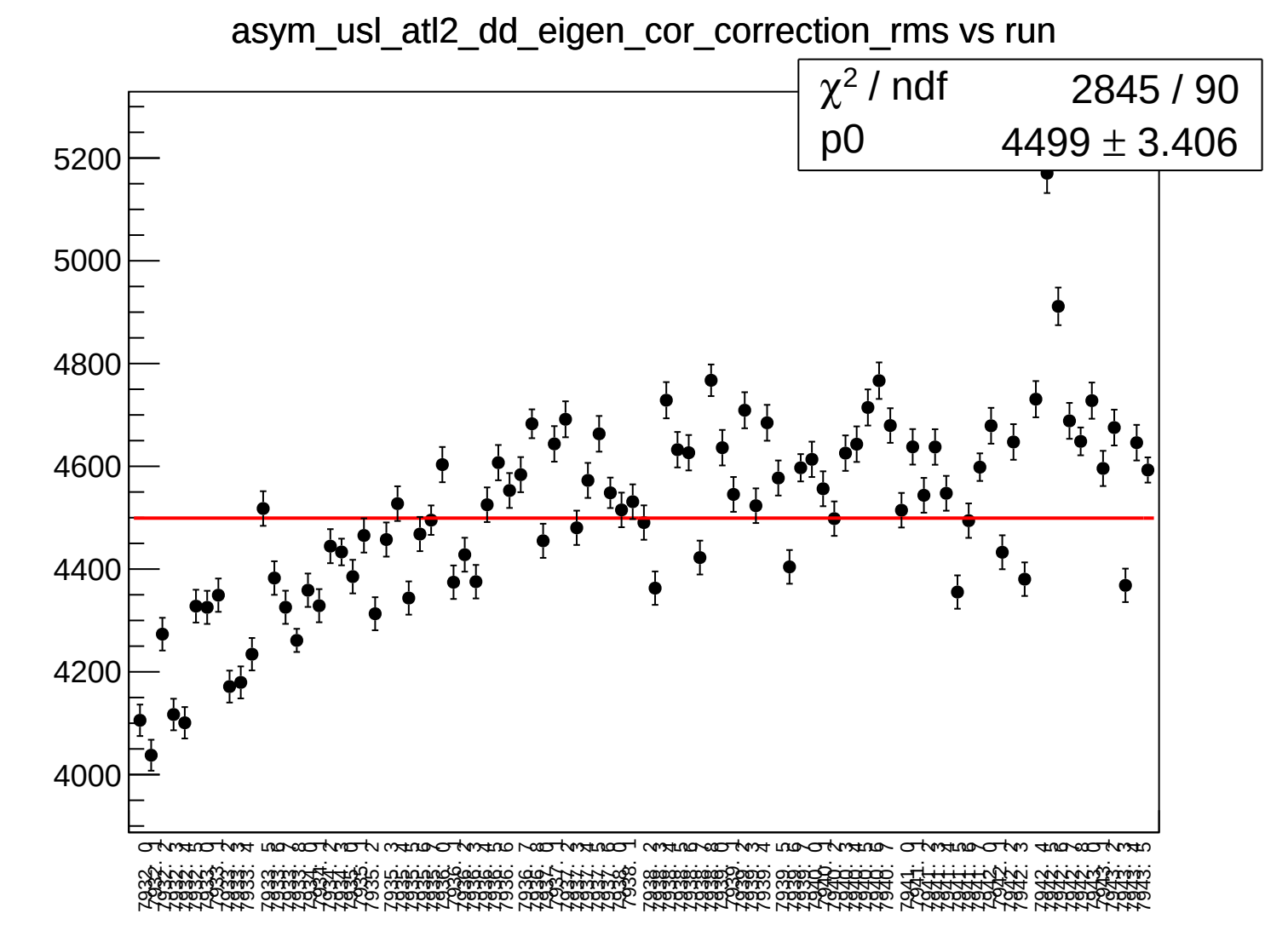

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2845 / 90
p0 4499 ± 3.406
5200
5000
4800
4600
4400
4200
4000

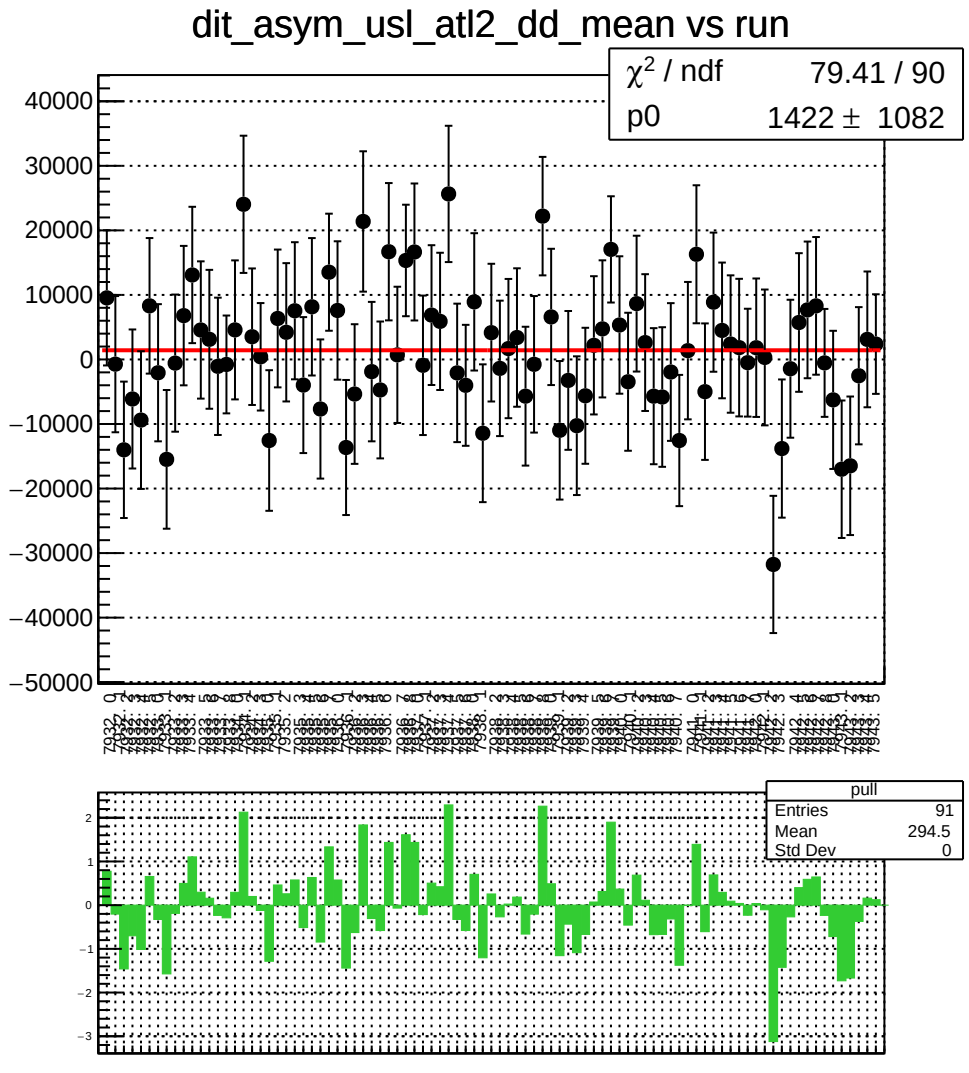

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 79.99 / 90
p0 1358 ± 1069
pull
Entries 91
Mean 339.9
Std Dev 0

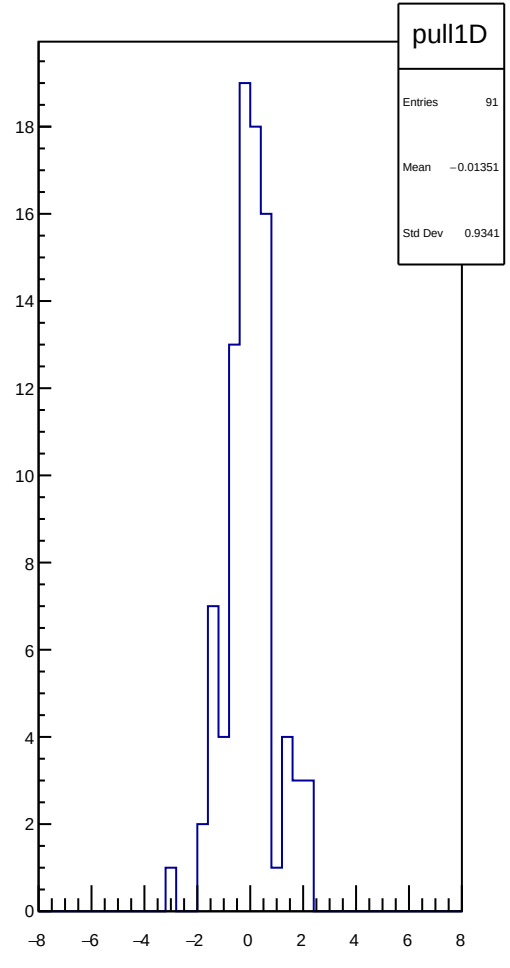

pull1D
Entries 91
Mean −0.01126
Std Dev 0.9375

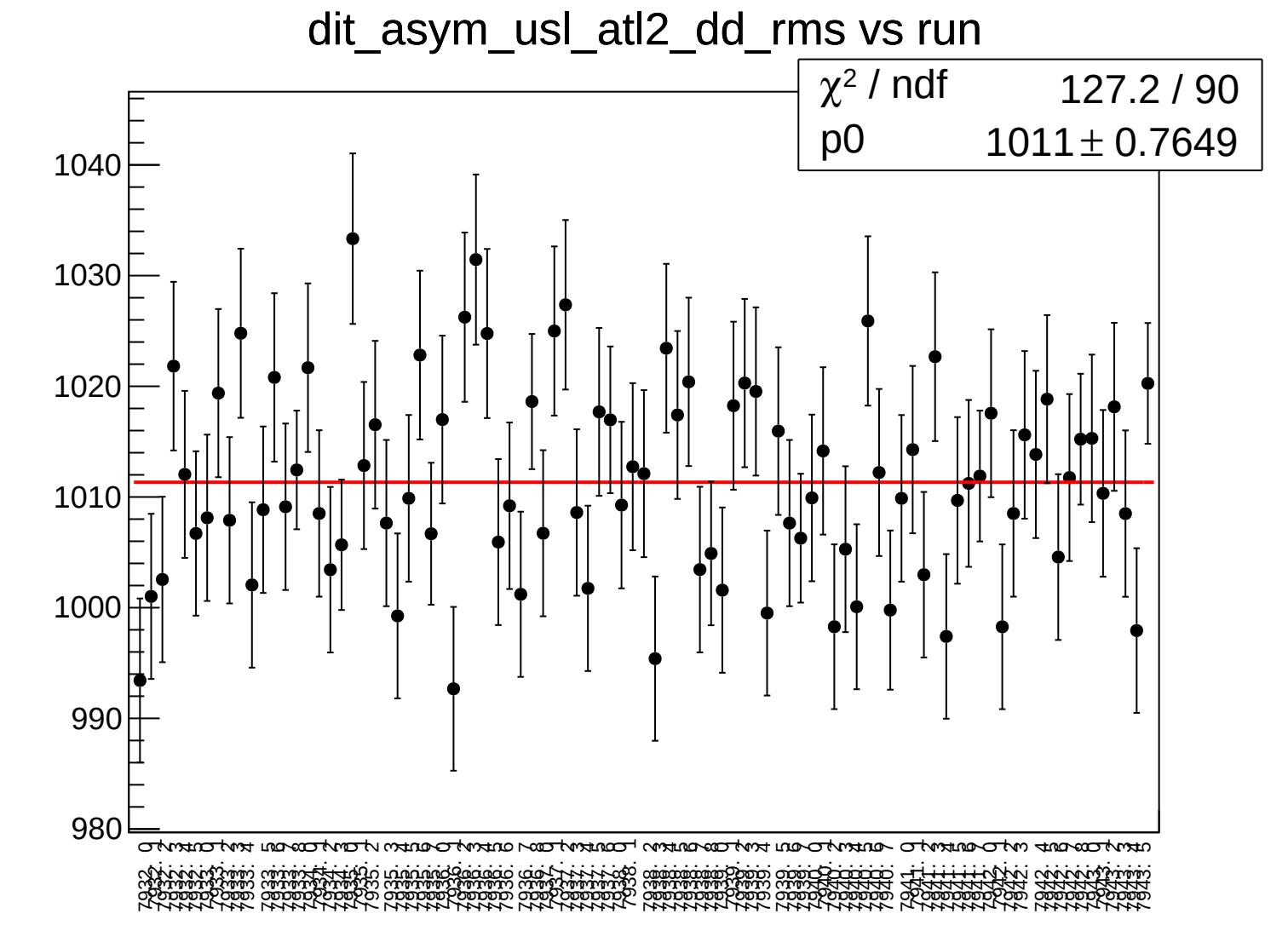

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 129.2 / 90
p0 999.7 ± 0.7561
1030
1020
1010
1000
990
980
970

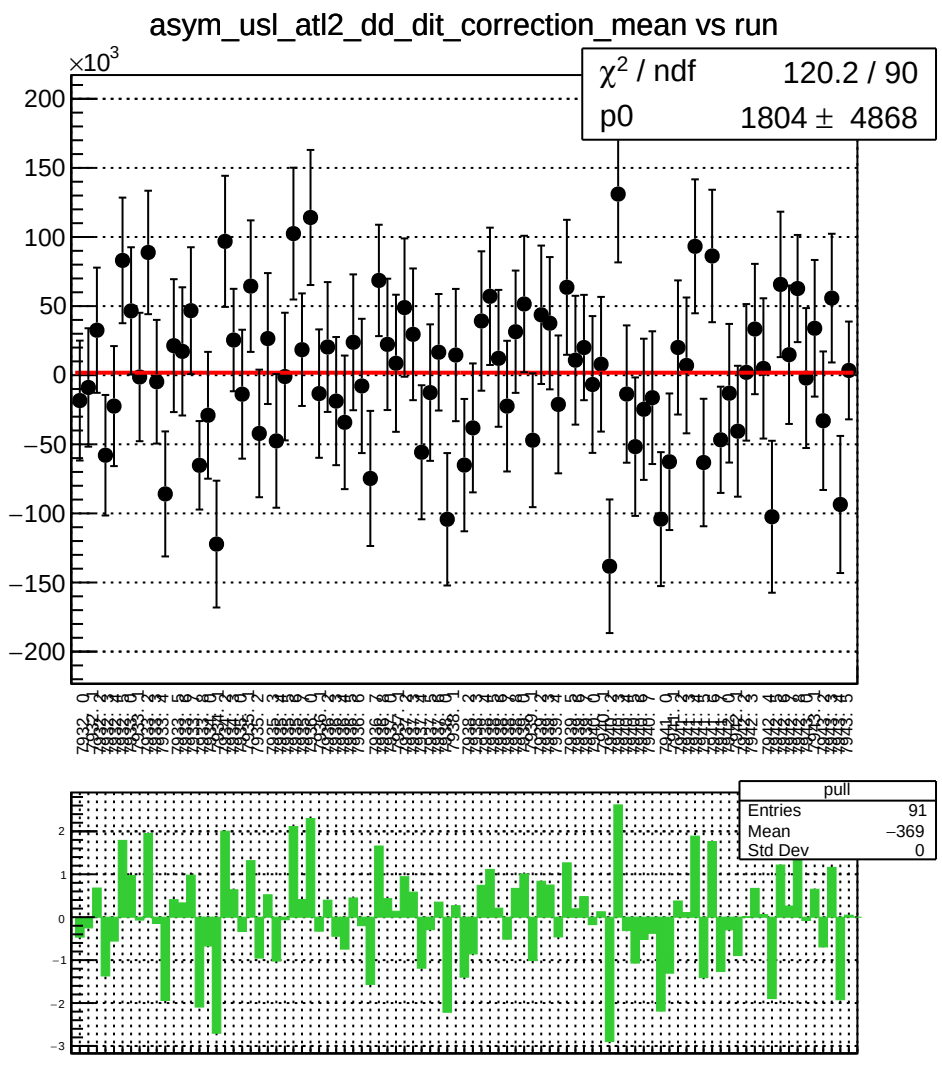

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.6 / 90
p0 1788 ± 4816
pull
Entries 91
Mean −375
Std Dev 0
pull1D
Entries 91
Mean 0.003101
Std Dev 1.146

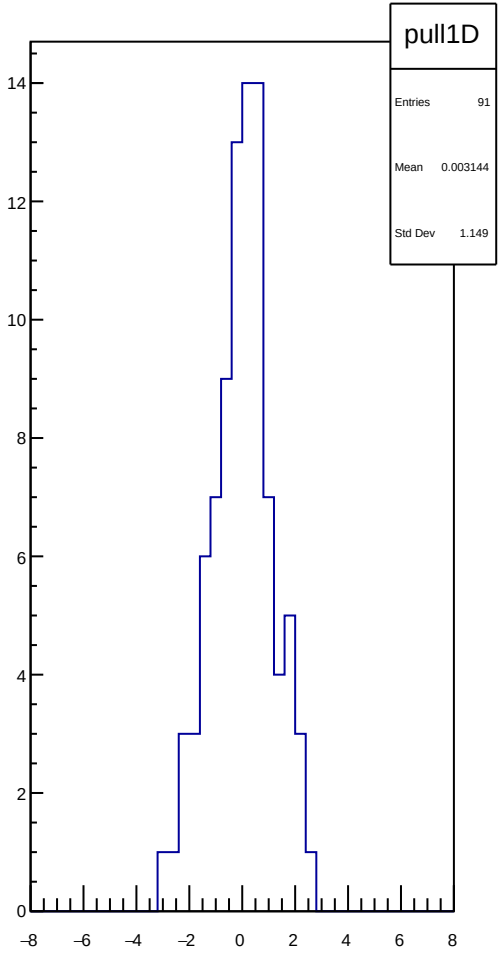

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2845 / 90
p0 4499 ± 3.406
5200
5000
4800
4600
4400
4200
4000

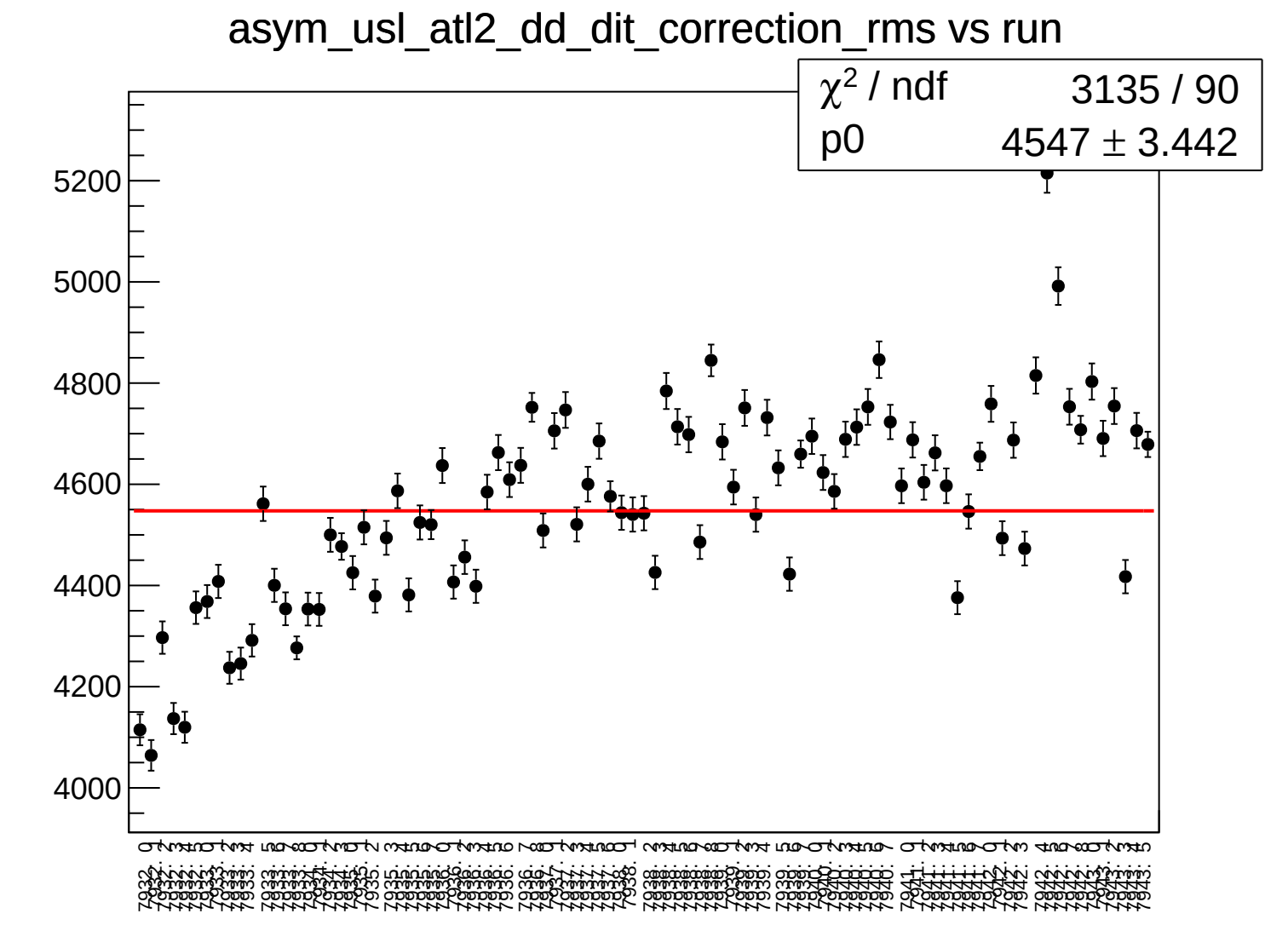

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 79.41 / 90
p0 1422 ± 1082
pull
Entries 91
Mean 294.5
Std Dev 0

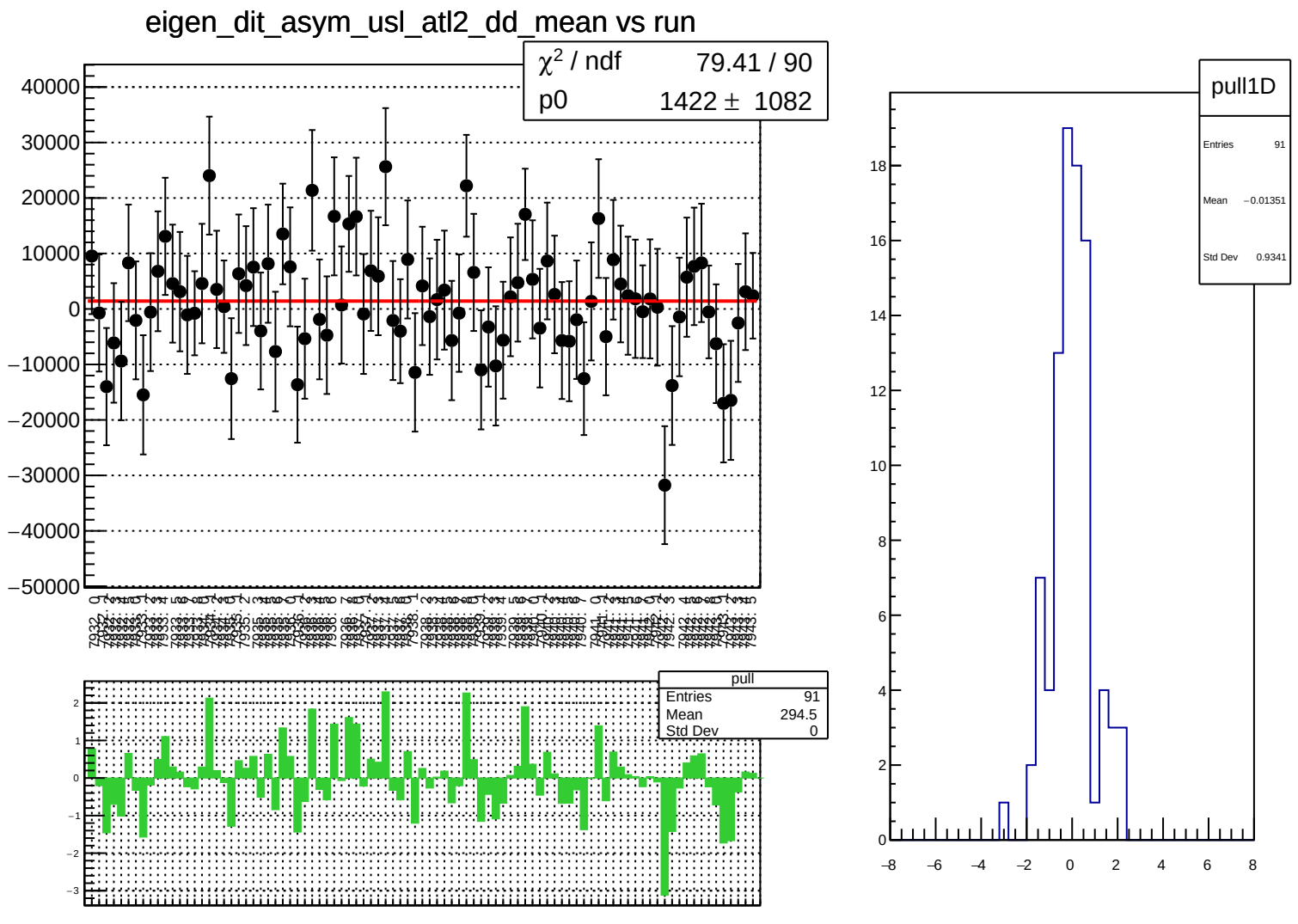

pull1D
Entries 91
Mean −0.01351
Std Dev 0.9341

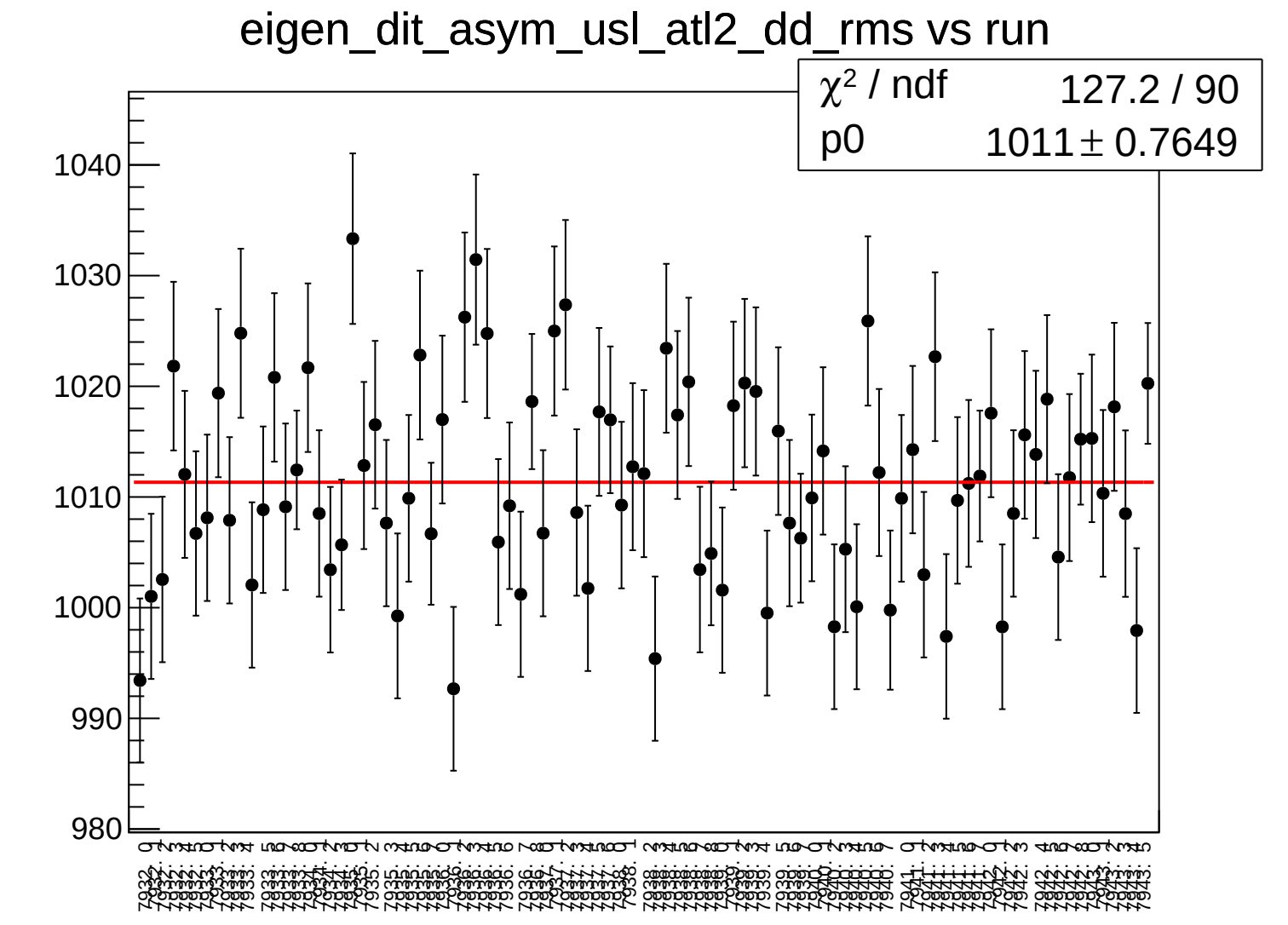

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 127.2 / 90
p0 1011 ± 0.7649
1040
1030
1020
1010
1000
990
980

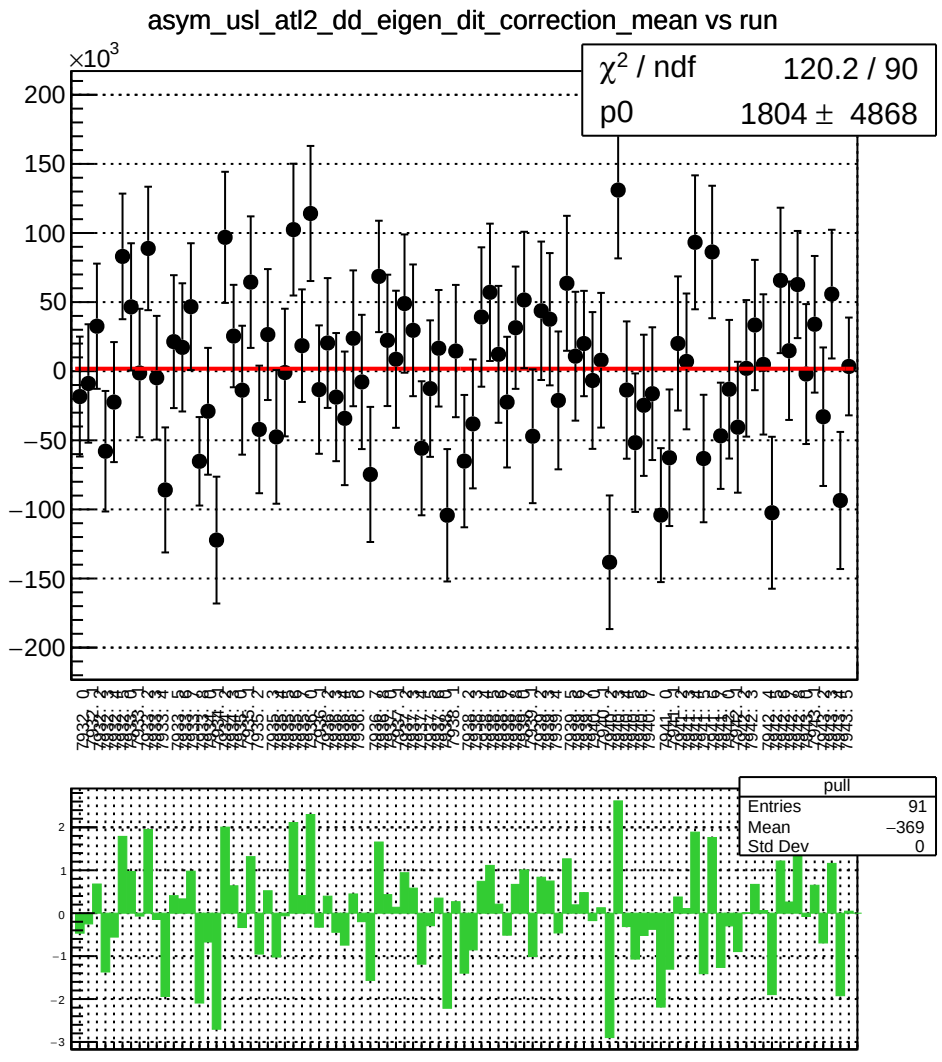

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 120.2 / 90
p0 1804 ± 4868
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −369
Std Dev 0
2
1
0
−1
−2
−3

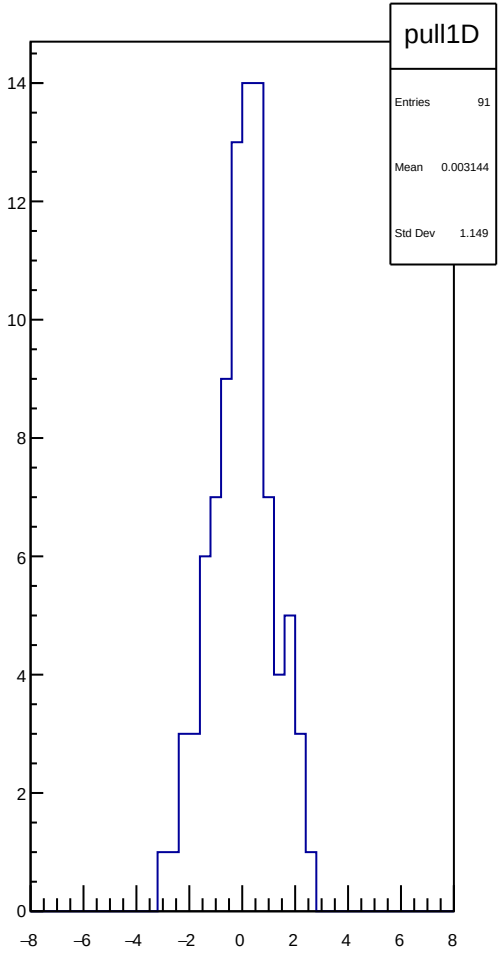

pull1D
Entries 91
Mean 0.003144
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

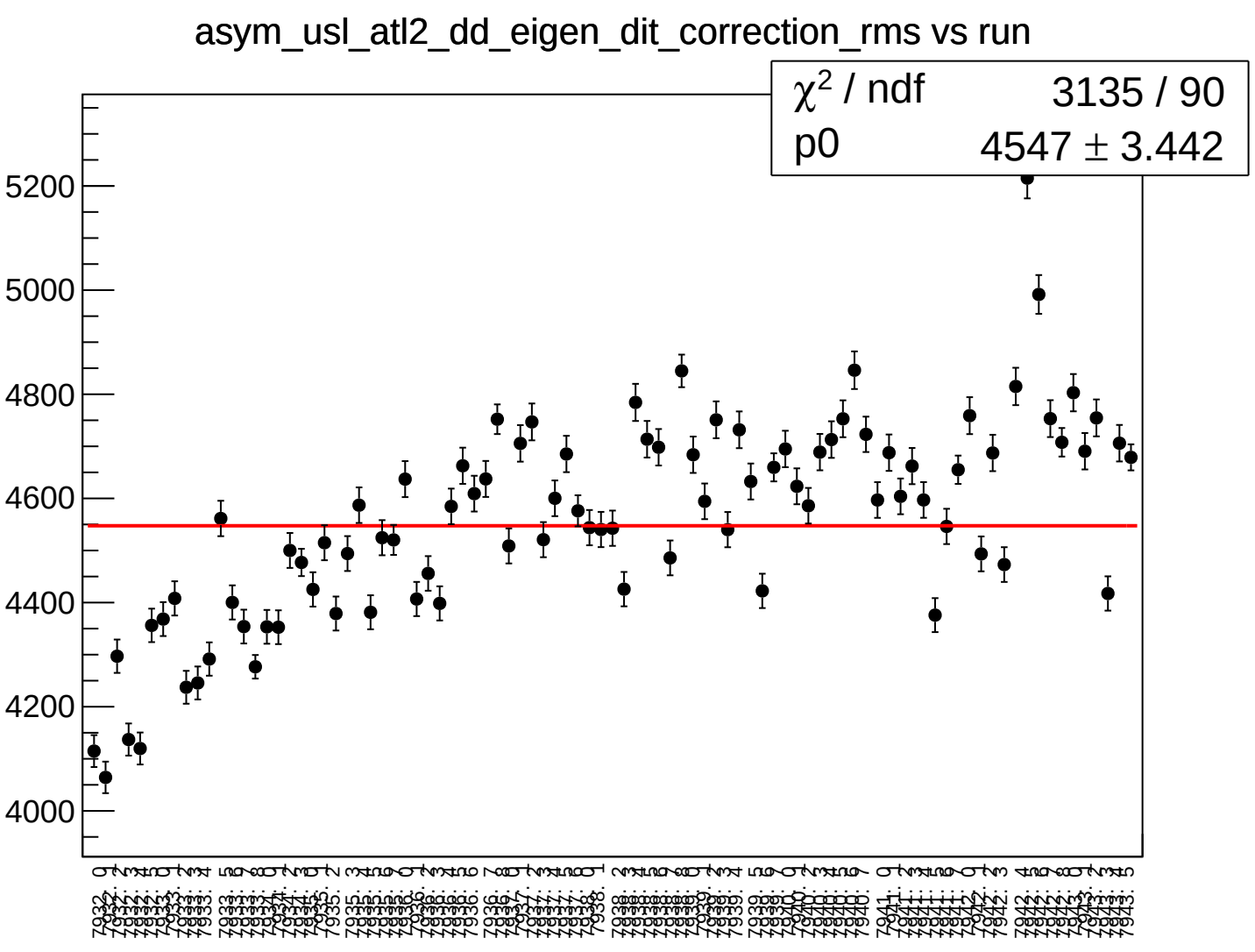

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 3135 / 90
p0 4547 ± 3.442
5200
5000
4800
4600
4400
4200
4000

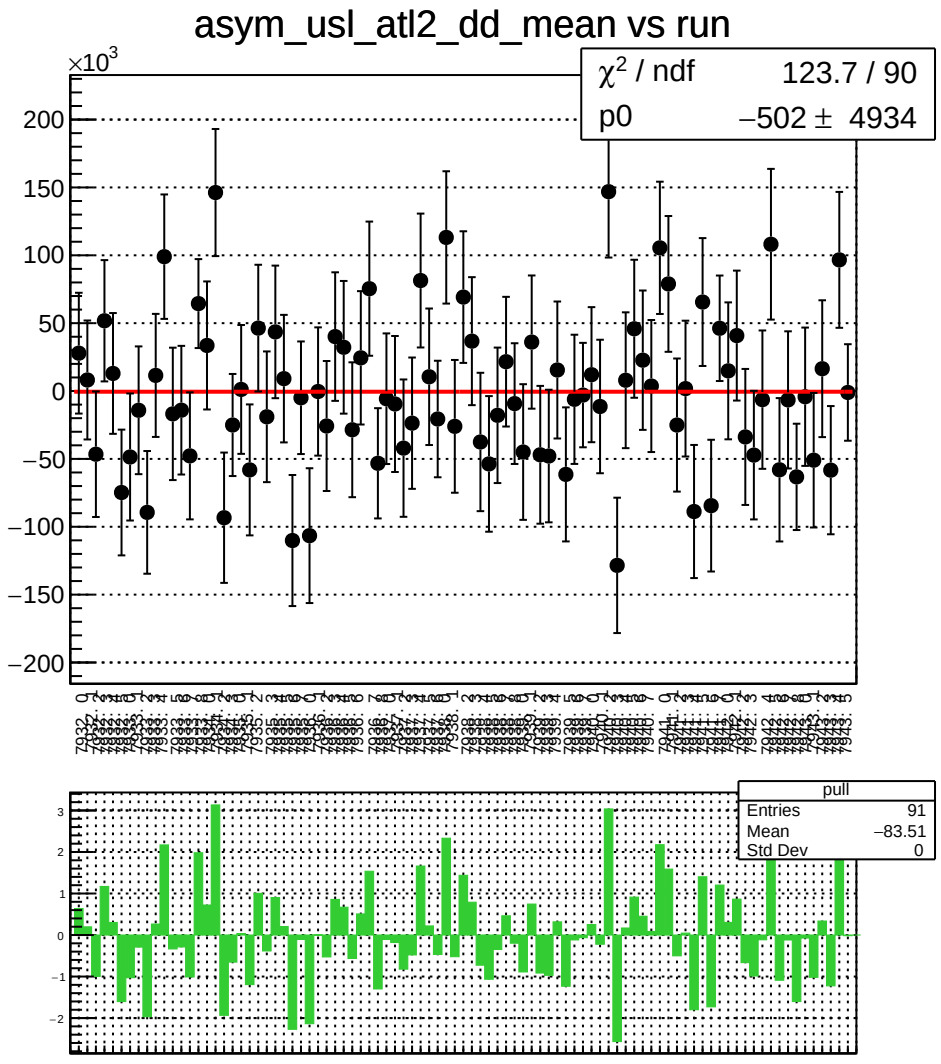

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 79.41 / 90
p0 1422 ± 1082
pull
Entries 91
Mean 294.5
Std Dev 0
pull1D
Entries 91
Mean −0.01351
Std Dev 0.9341

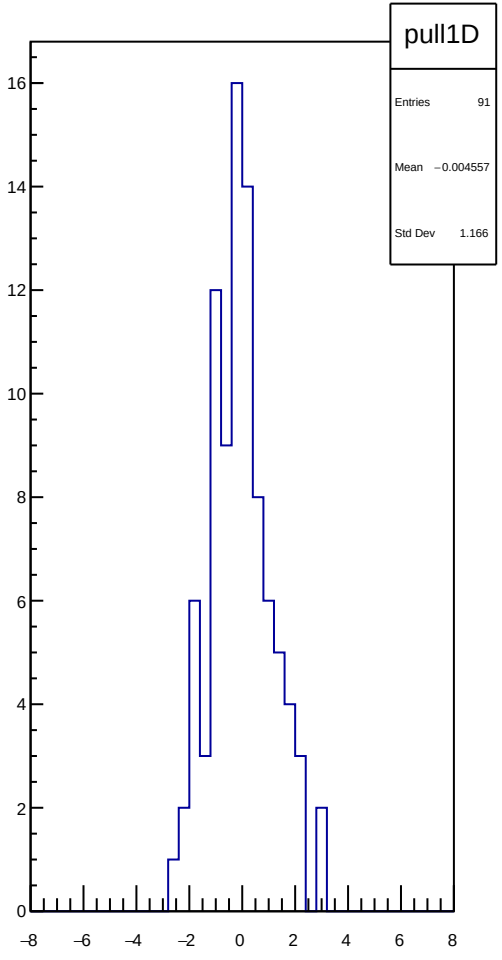

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 127.2 / 90
p0 1011 ± 0.7649
1040
1030
1020
1010
1000
990
980

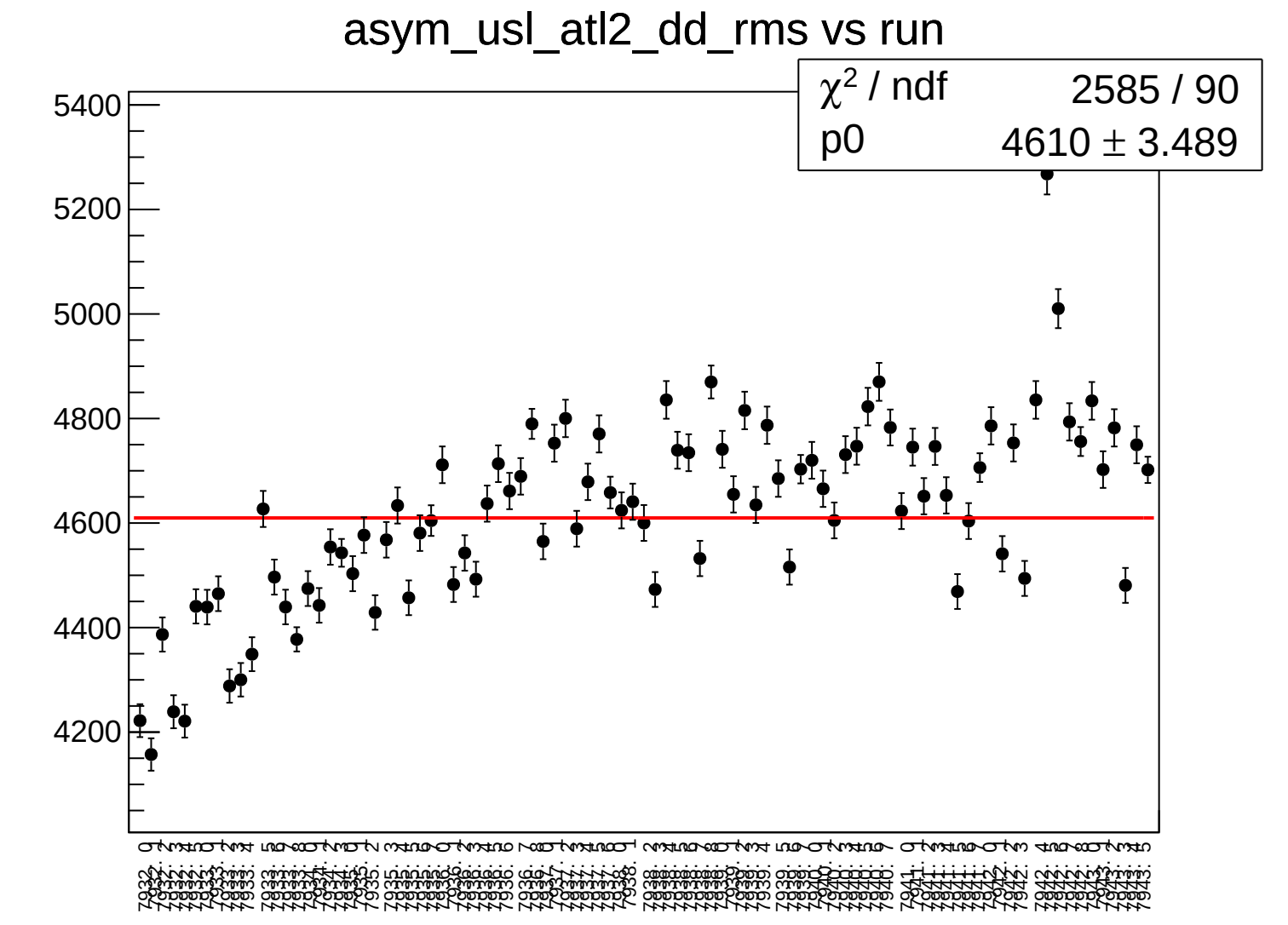

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.2 / 90
p0 1804 ± 4868
pull
Entries 91
Mean −369
Std Dev 0

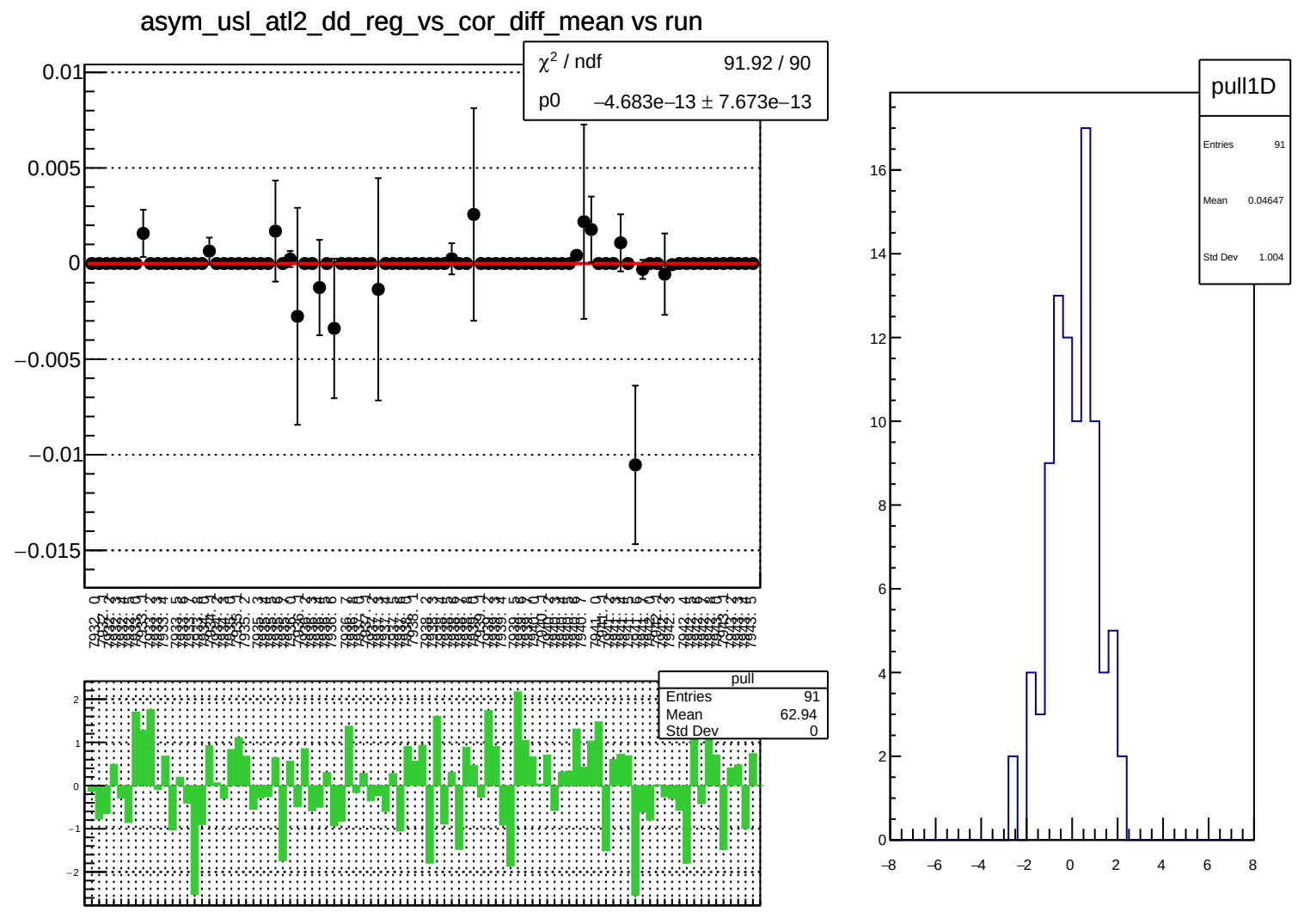

pull1D
Entries 91
Mean 0.003144
Std Dev 1.149

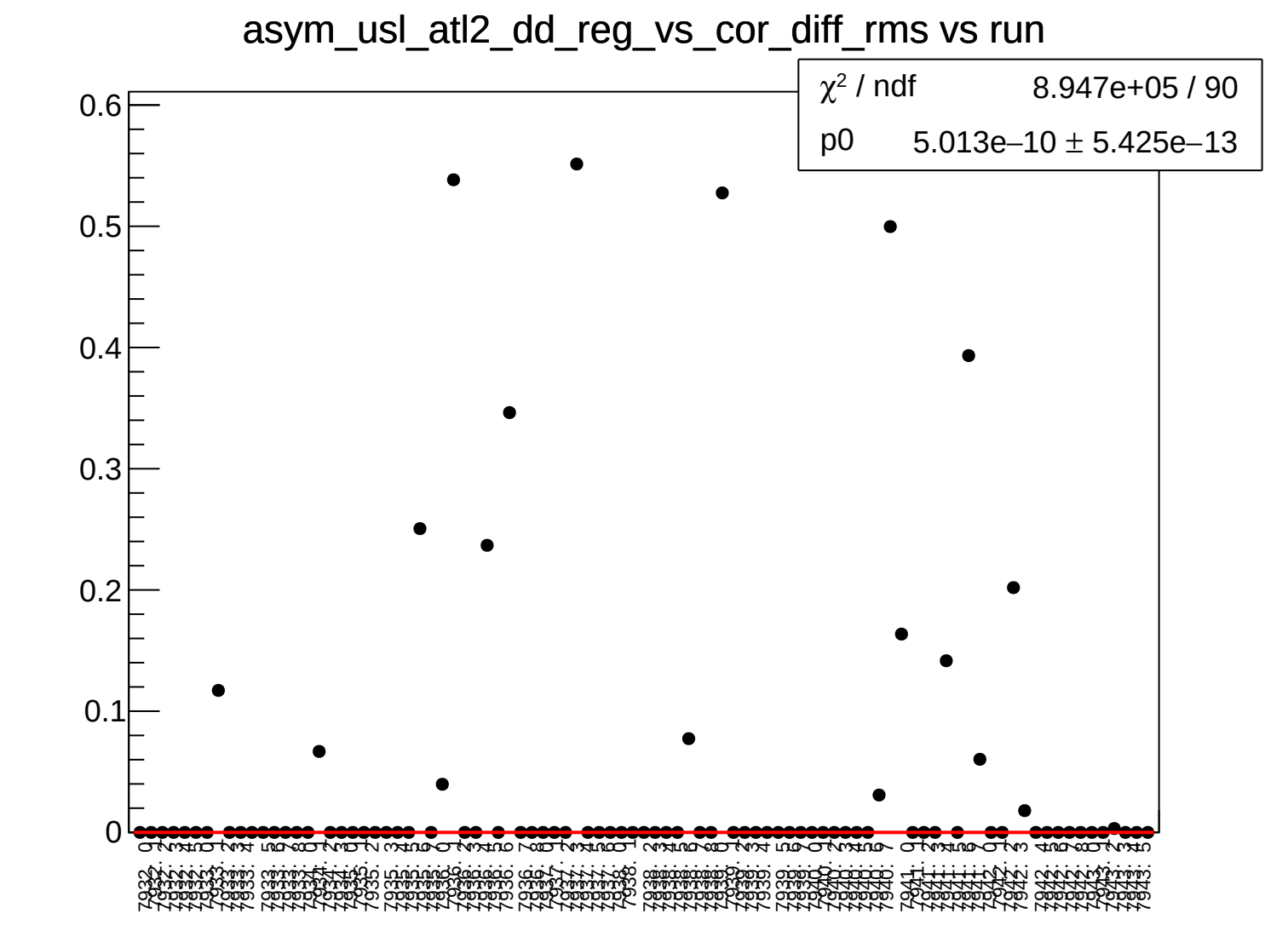

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3135 / 90
p0 4547 ± 3.442
5200
5000
4800
4600
4400
4200
4000

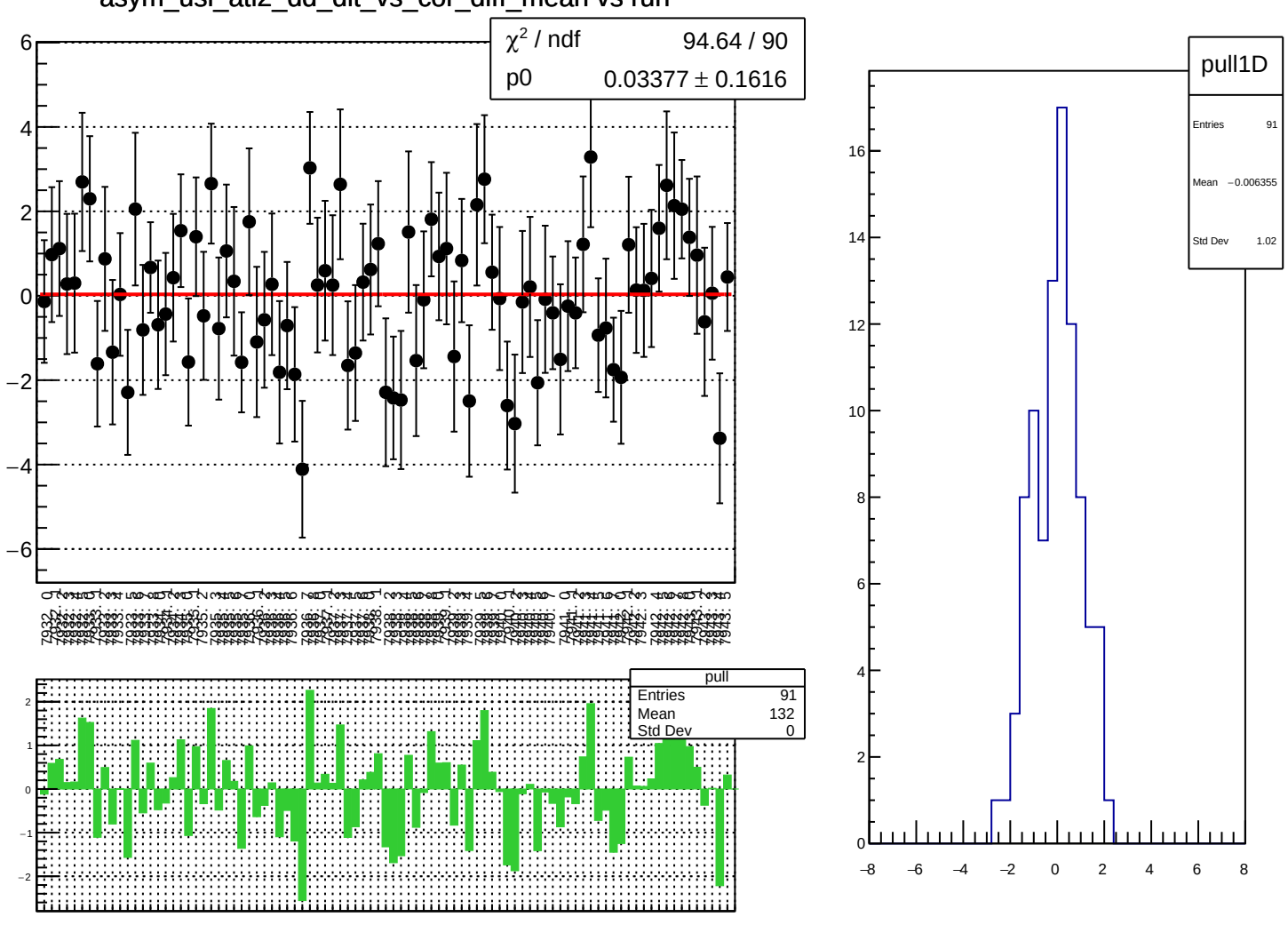

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 123.7 / 90
p0 −502 ± 4934
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −83.51
Std Dev 0
3
2
1
0
−1
−2

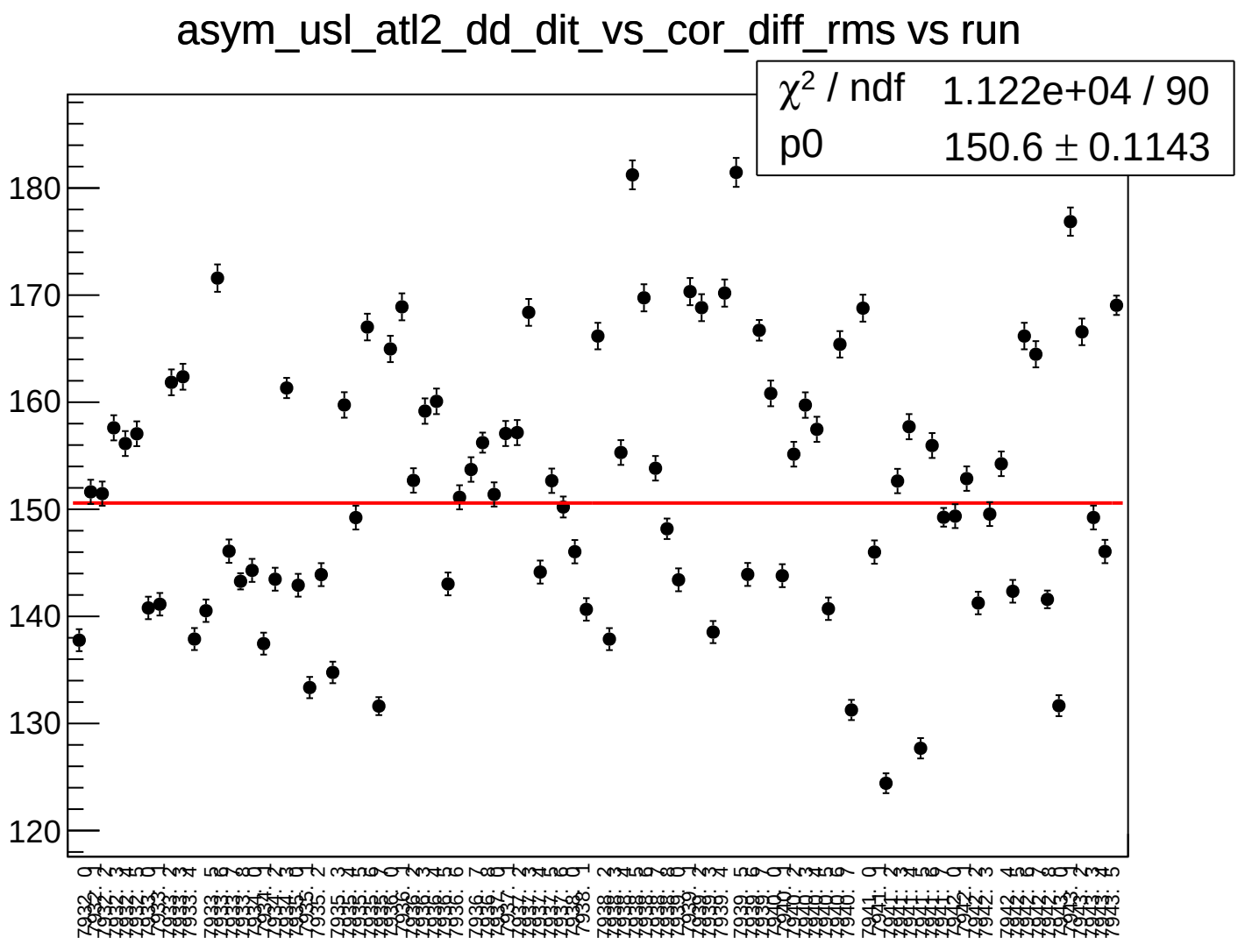

pull1D
Entries 91
Mean −0.004557
Std Dev 1.166
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

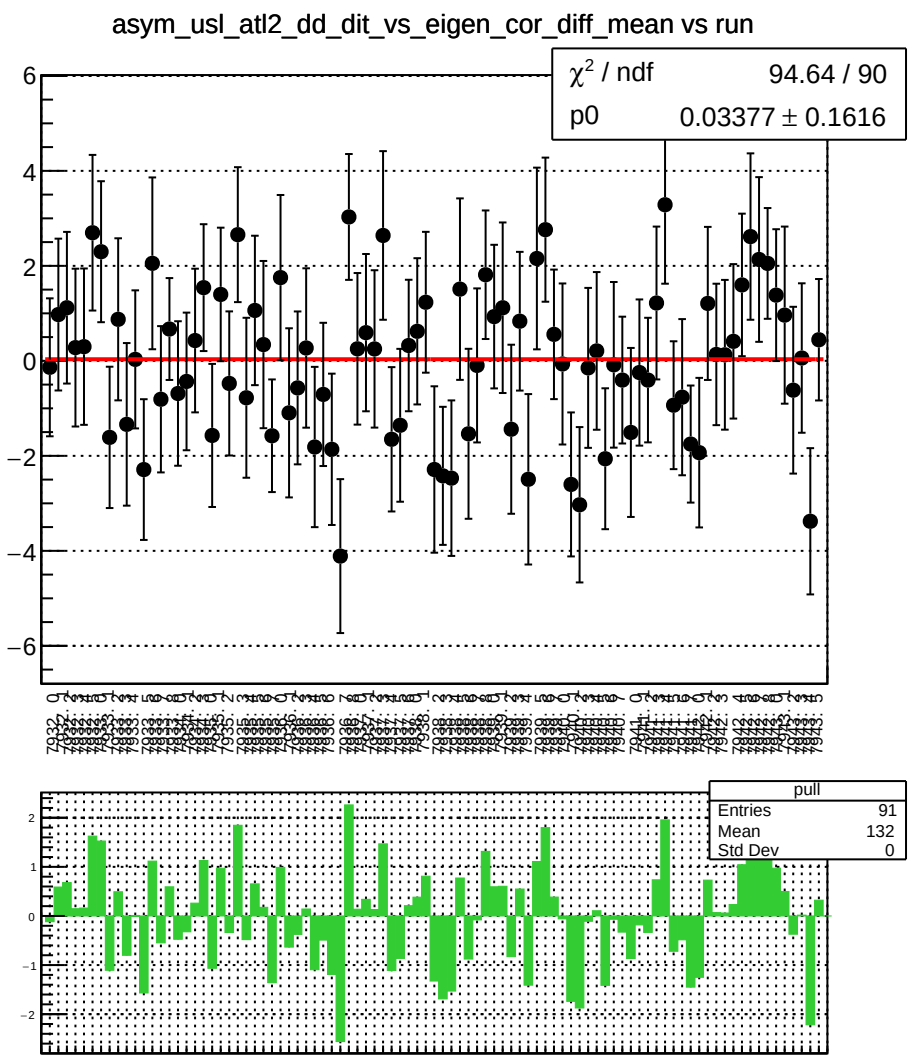

asym_usl_atl2_dd_rms vs run
χ² / ndf 2585 / 90
p0 4610 ± 3.489
5400
5200
5000
4800
4600
4400
4200

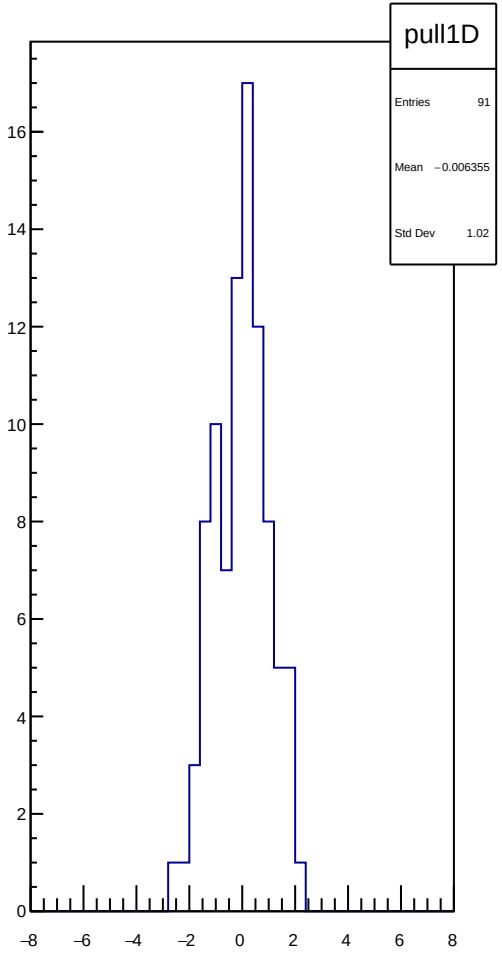

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.92 / 90
p0 −4.683e−13 ± 7.673e−13
pull
Entries 91
Mean 62.94
Std Dev 0
pull1D
Entries 91
Mean 0.04647
Std Dev 1.004

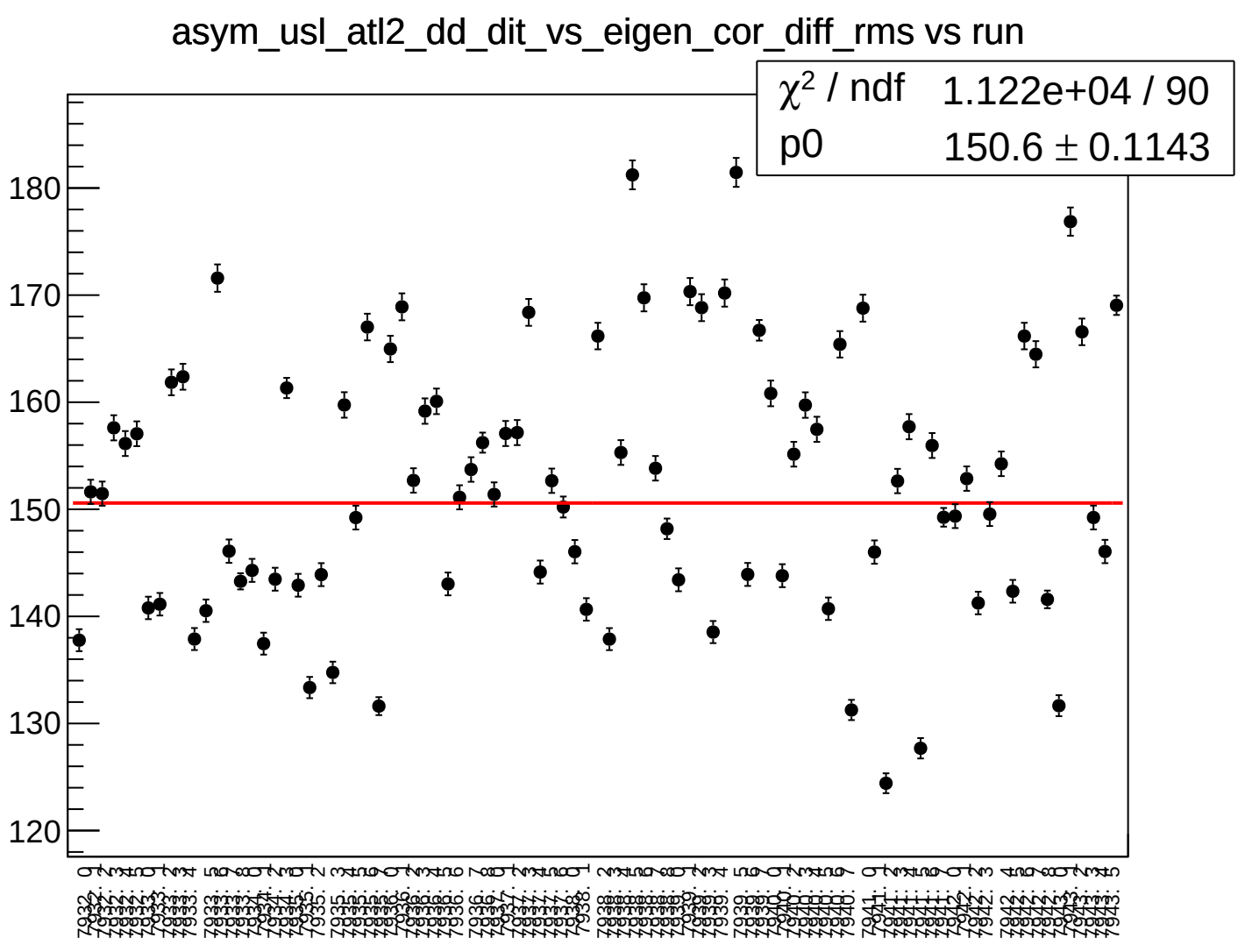

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.947e+05 / 90
p0 5.013e−10 ± 5.425e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

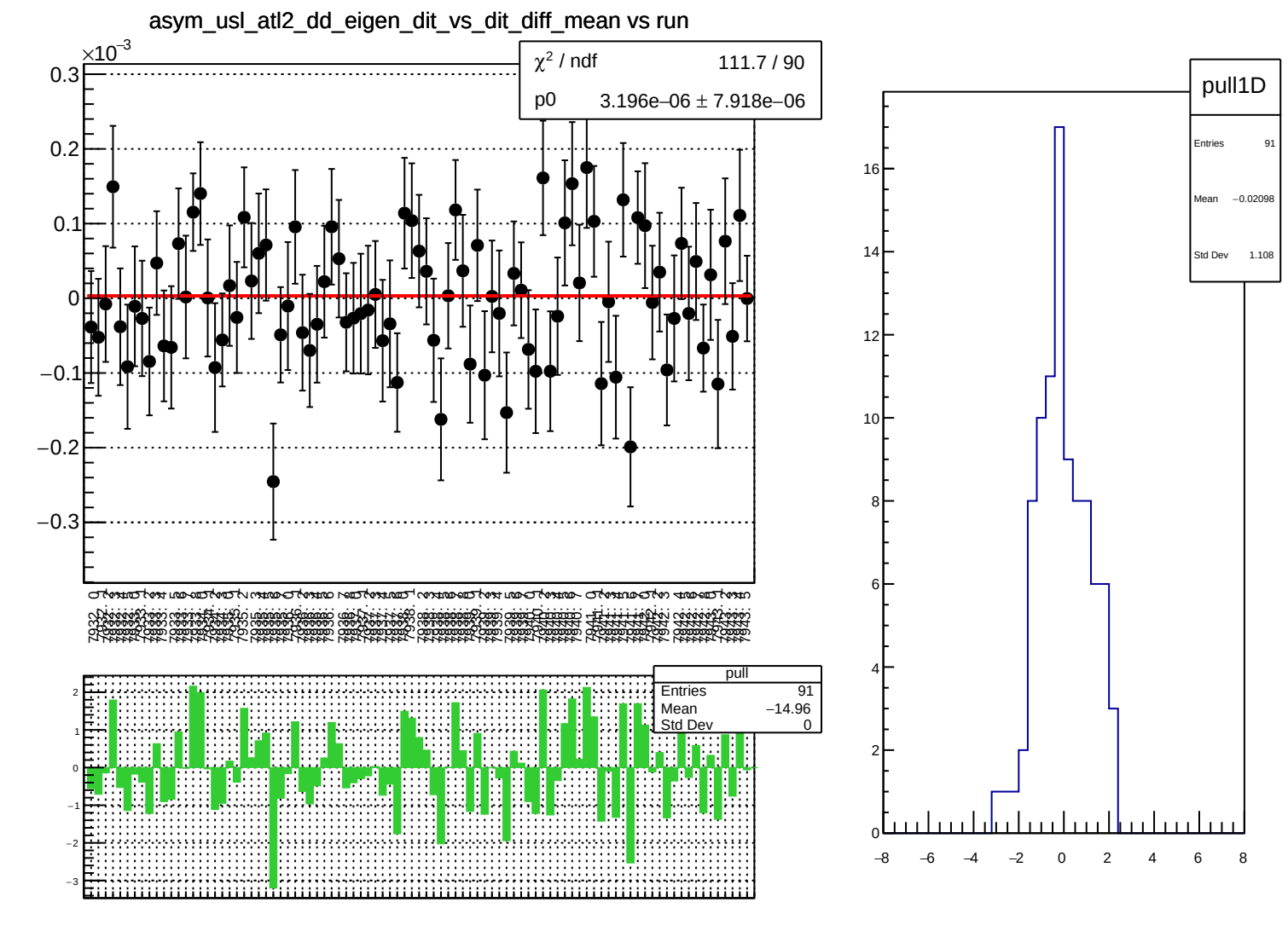

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.64 / 90
p0 0.03377 ± 0.1616
pull
Entries 91
Mean 132
Std Dev 0
pull1D
Entries 91
Mean −0.006355
Std Dev 1.02

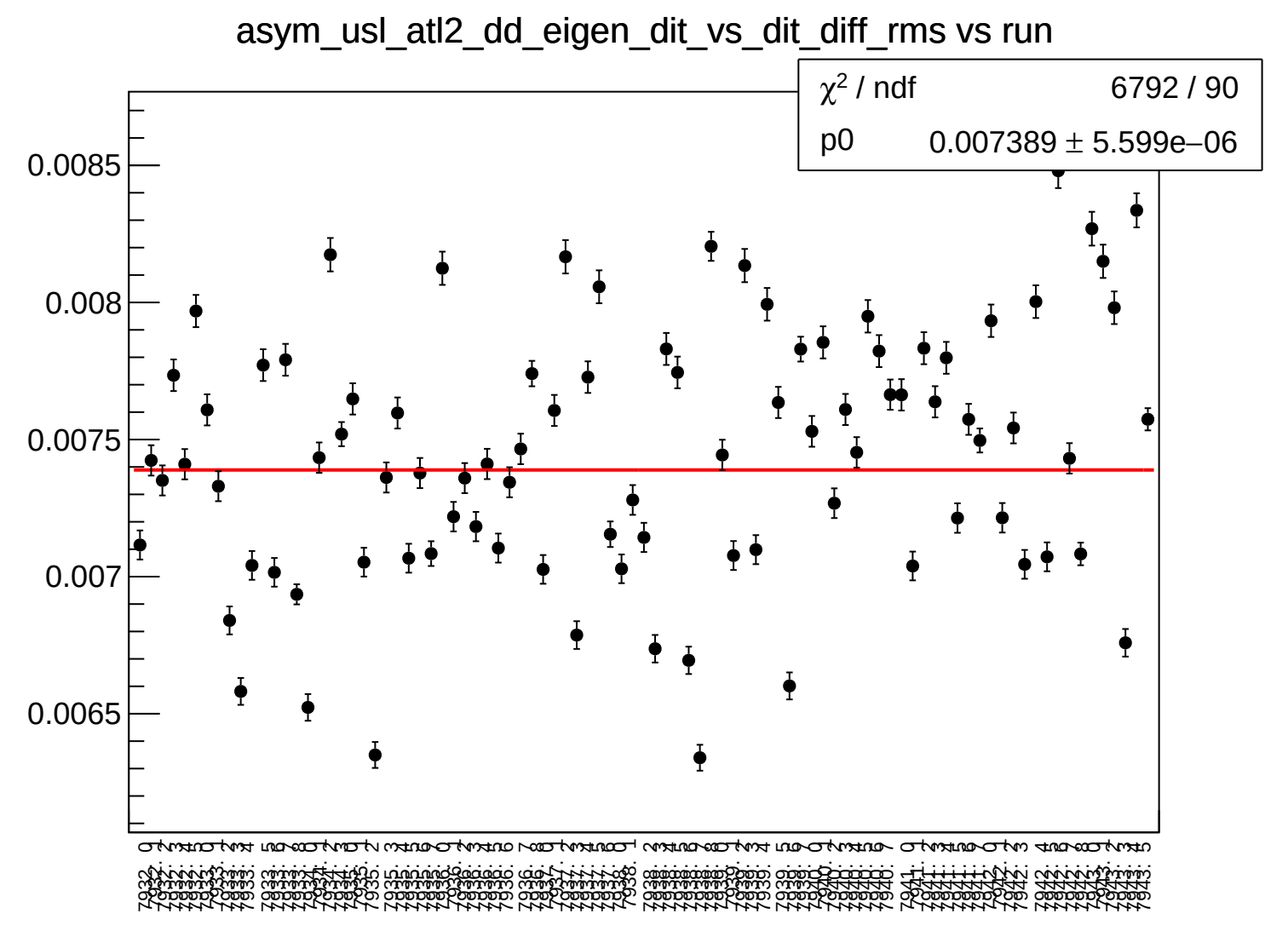

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.122e+04 / 90
p0 150.6 ± 0.1143
180
170
160
150
140
130
120

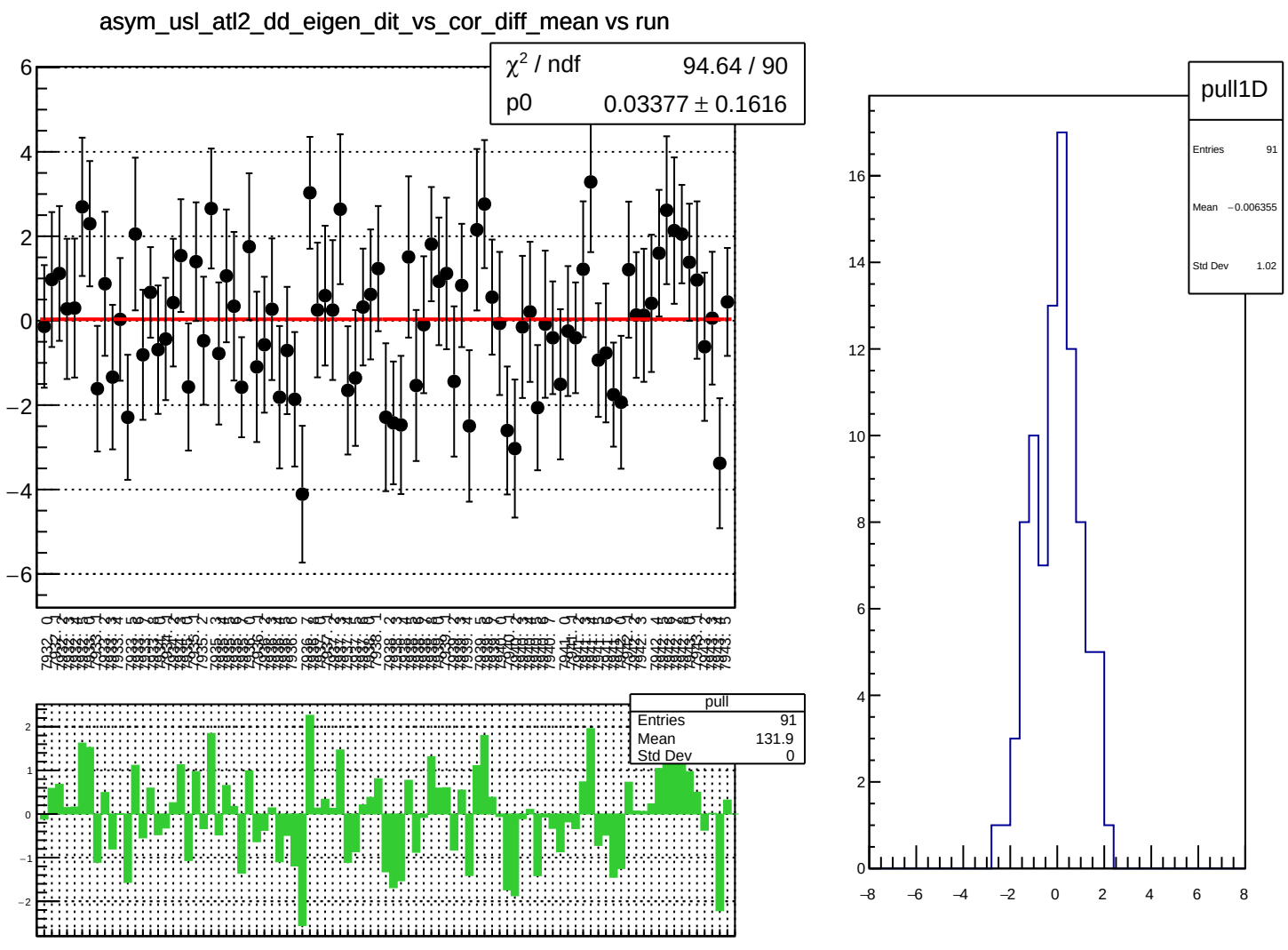

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.64 / 90
p0 0.03377 ± 0.1616
pull
Entries 91
Mean 132
Std Dev 0

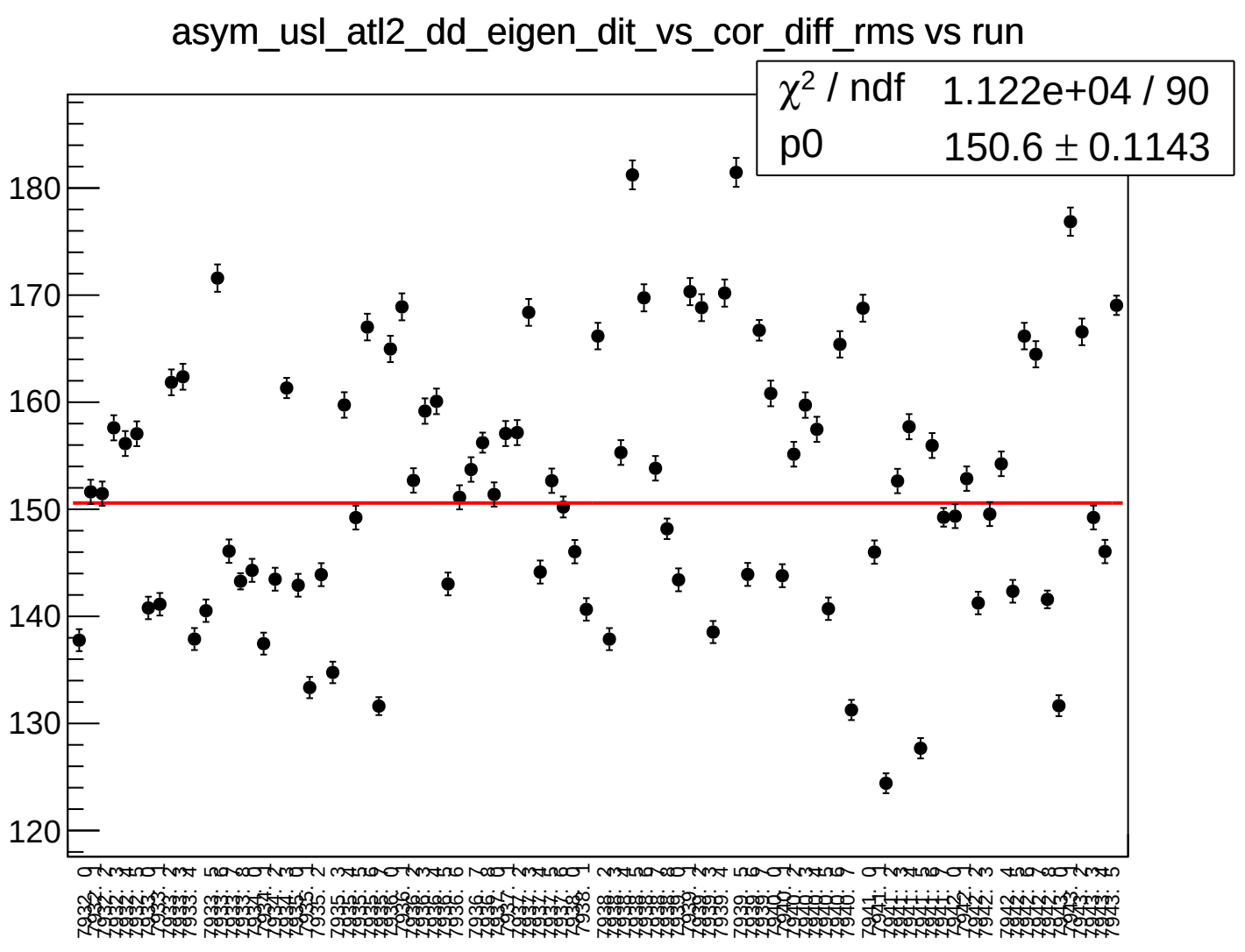

pull1D
Entries 91
Mean −0.006355
Std Dev 1.02

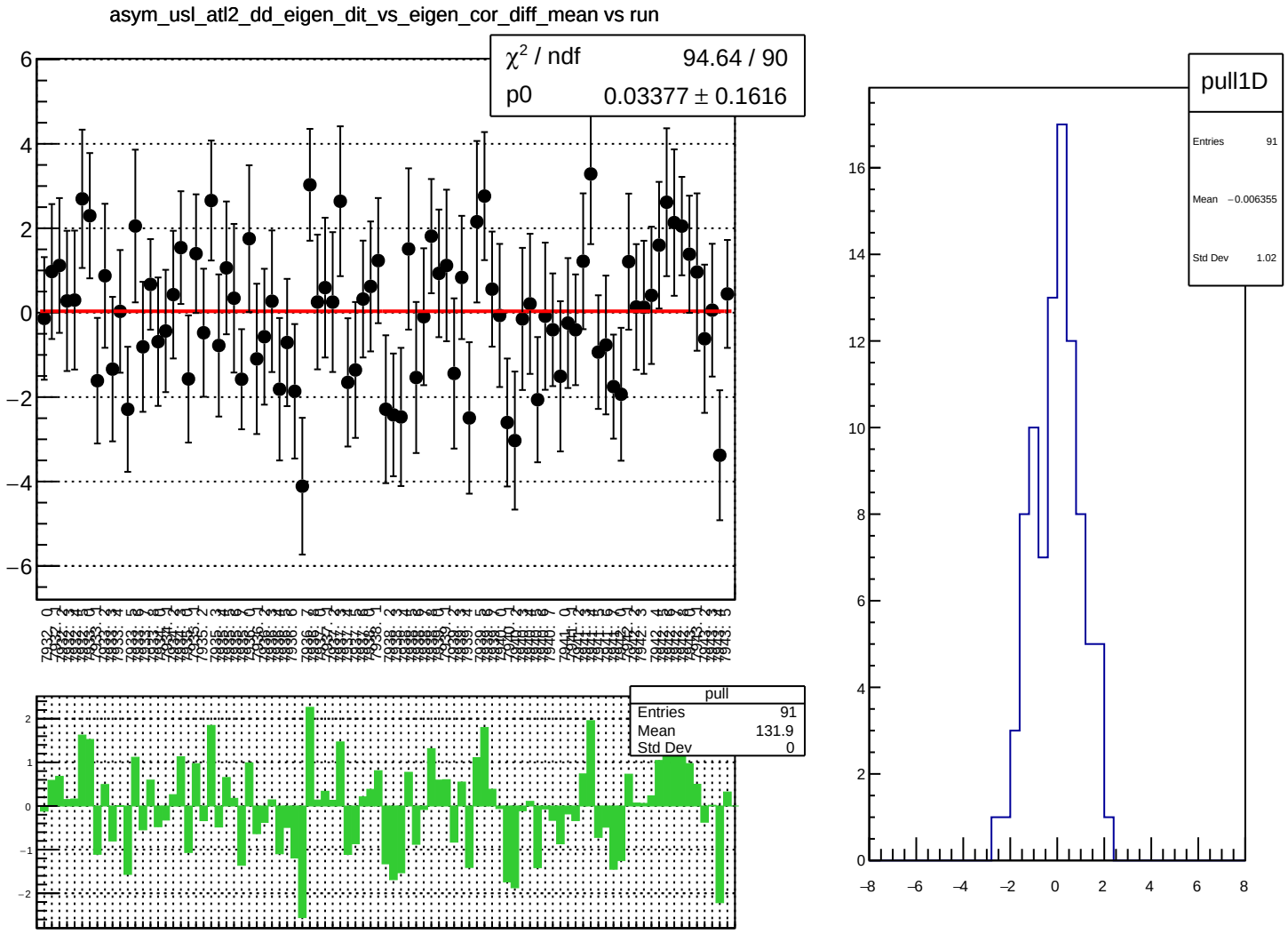

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.122e+04 / 90
p0 150.6 ± 0.1143
180
170
160
150
140
130
120

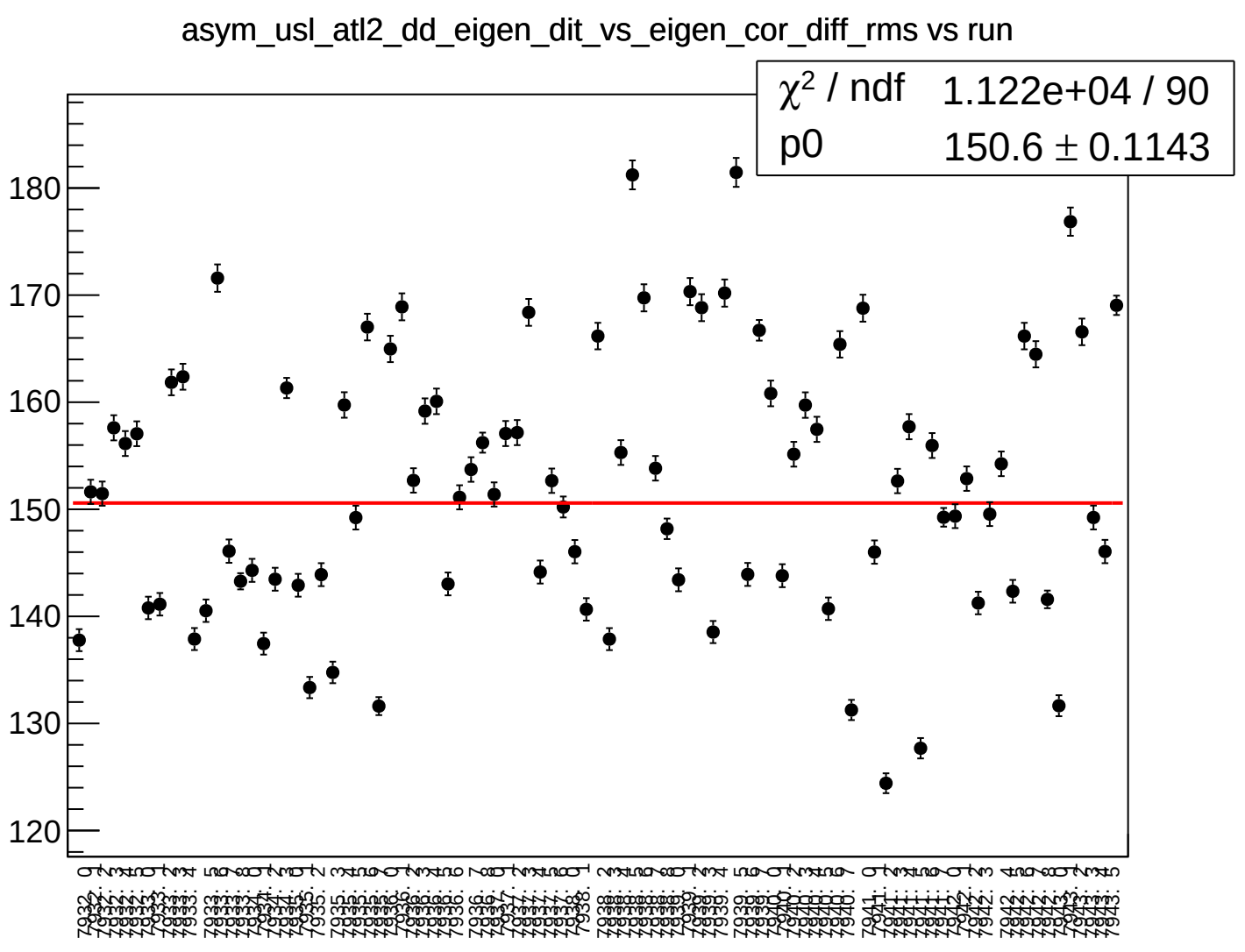

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.7 / 90
p0 3.196e−06 ± 7.918e−06
pull
Entries 91
Mean −14.96
Std Dev 0
pull1D
Entries 91
Mean −0.02098
Std Dev 1.108

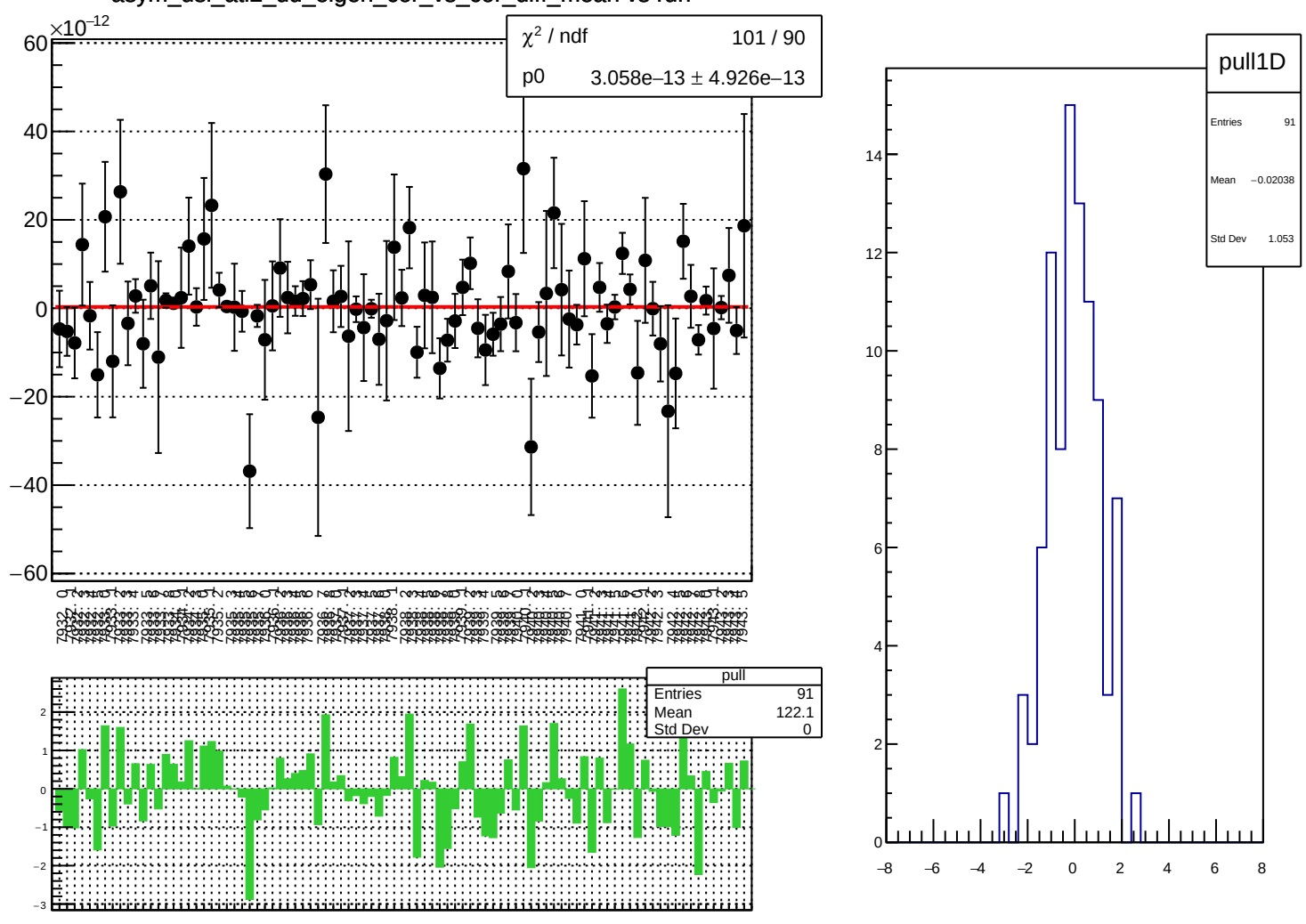

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6792 / 90
p0 0.007389 ± 5.599e−06
0.0085
0.008
0.0075
0.007
0.0065

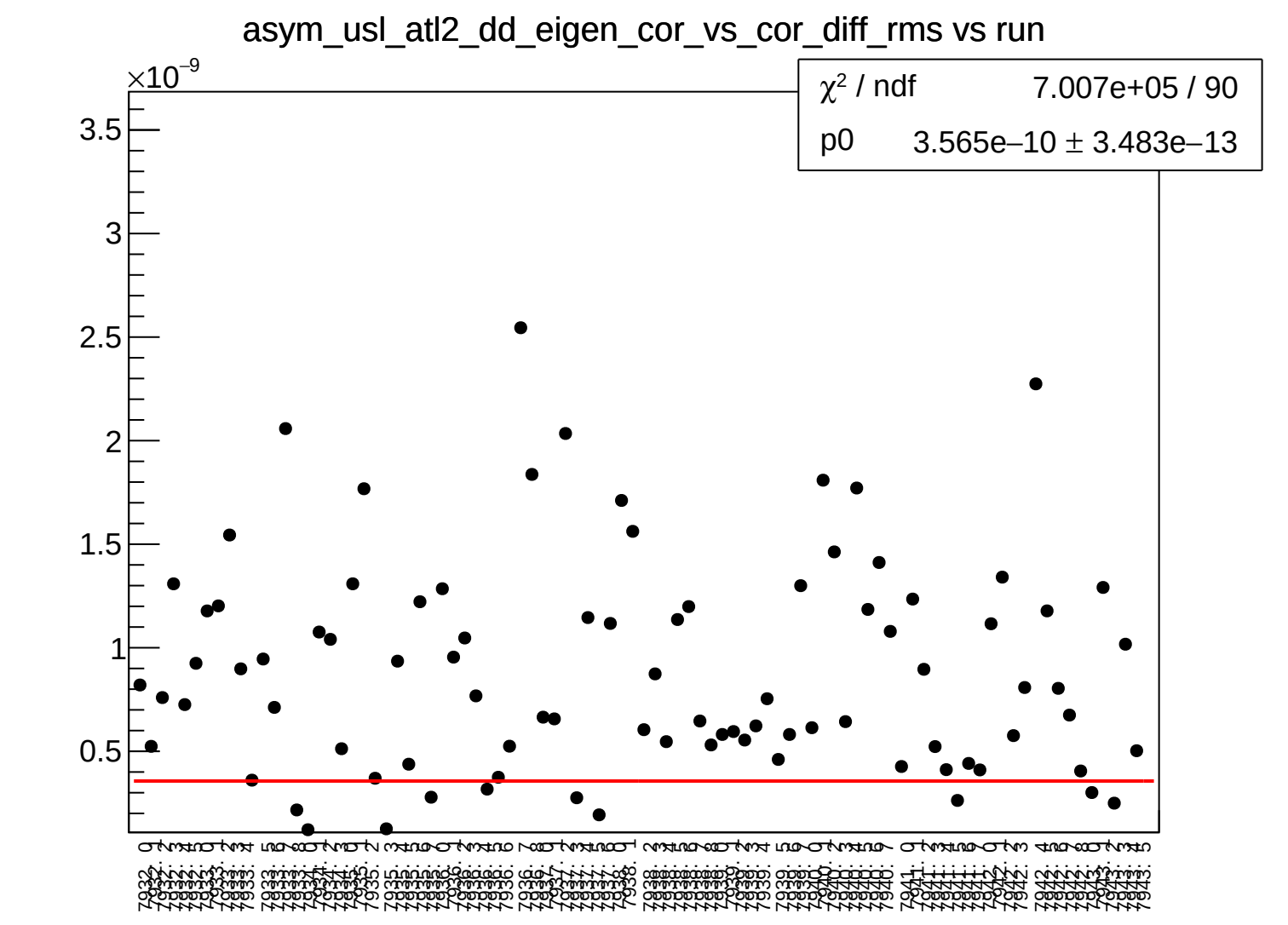

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.64 / 90
p0 0.03377 ± 0.1616
pull
Entries 91
Mean 131.9
Std Dev 0
pull1D
Entries 91
Mean −0.006355
Std Dev 1.02

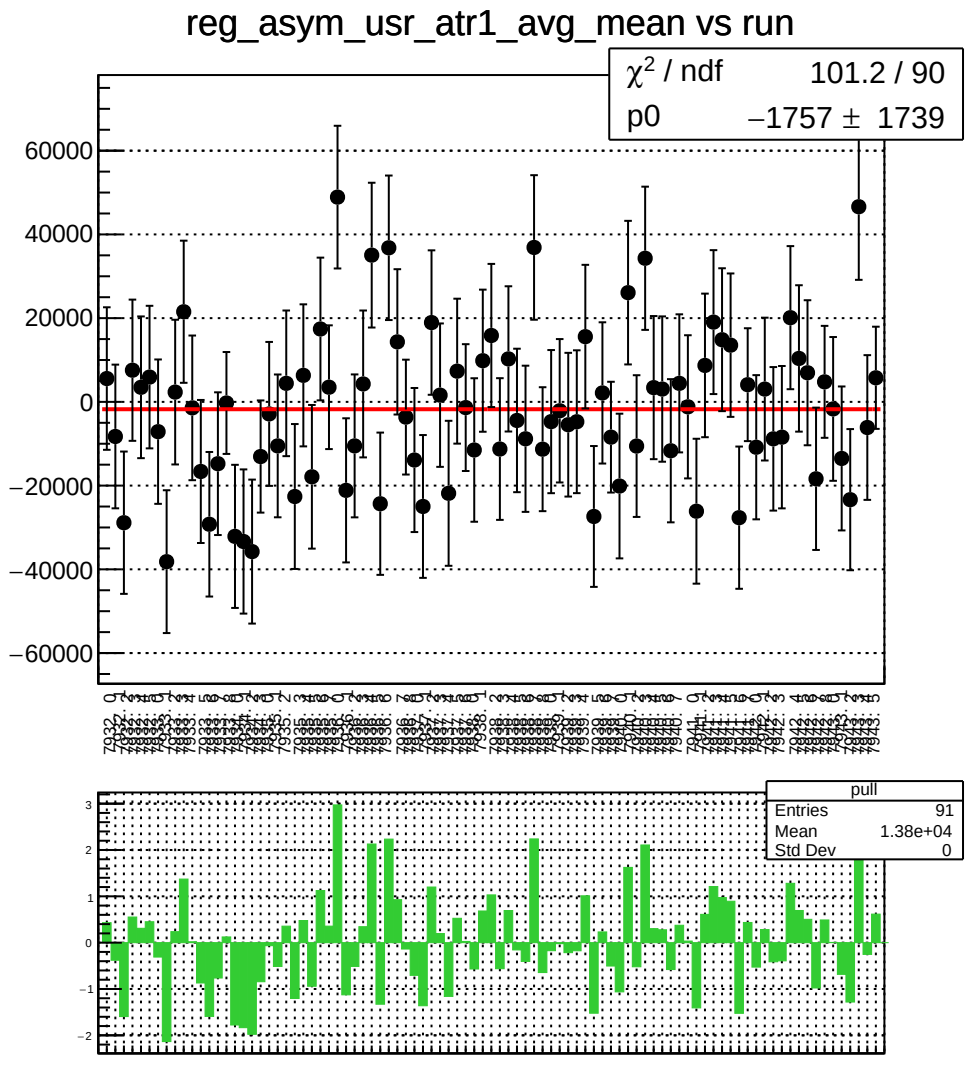

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.122e+04 / 90
p0 150.6 ± 0.1143
180
170
160
150
140
130
120

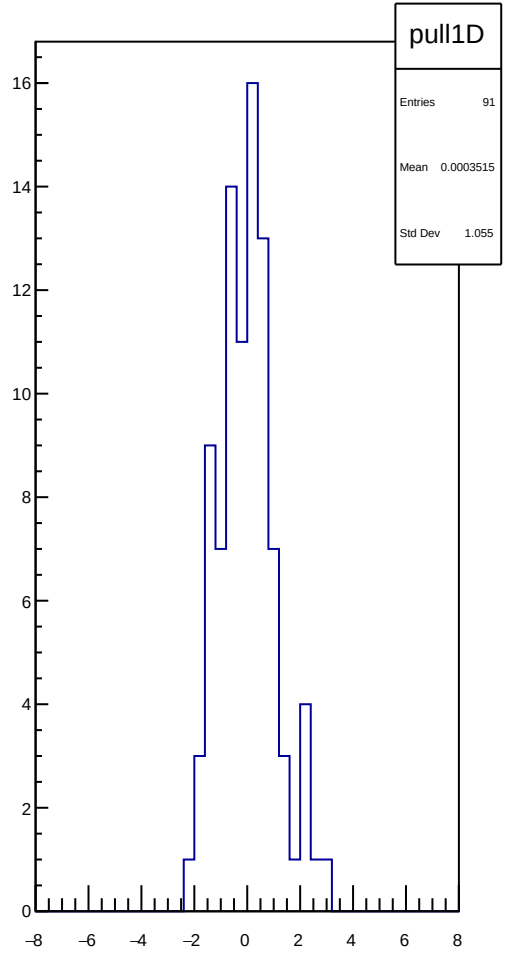

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.64 / 90
p0 0.03377 ± 0.1616
pull
Entries 91
Mean 131.9
Std Dev 0
pull1D
Entries 91
Mean −0.006355
Std Dev 1.02

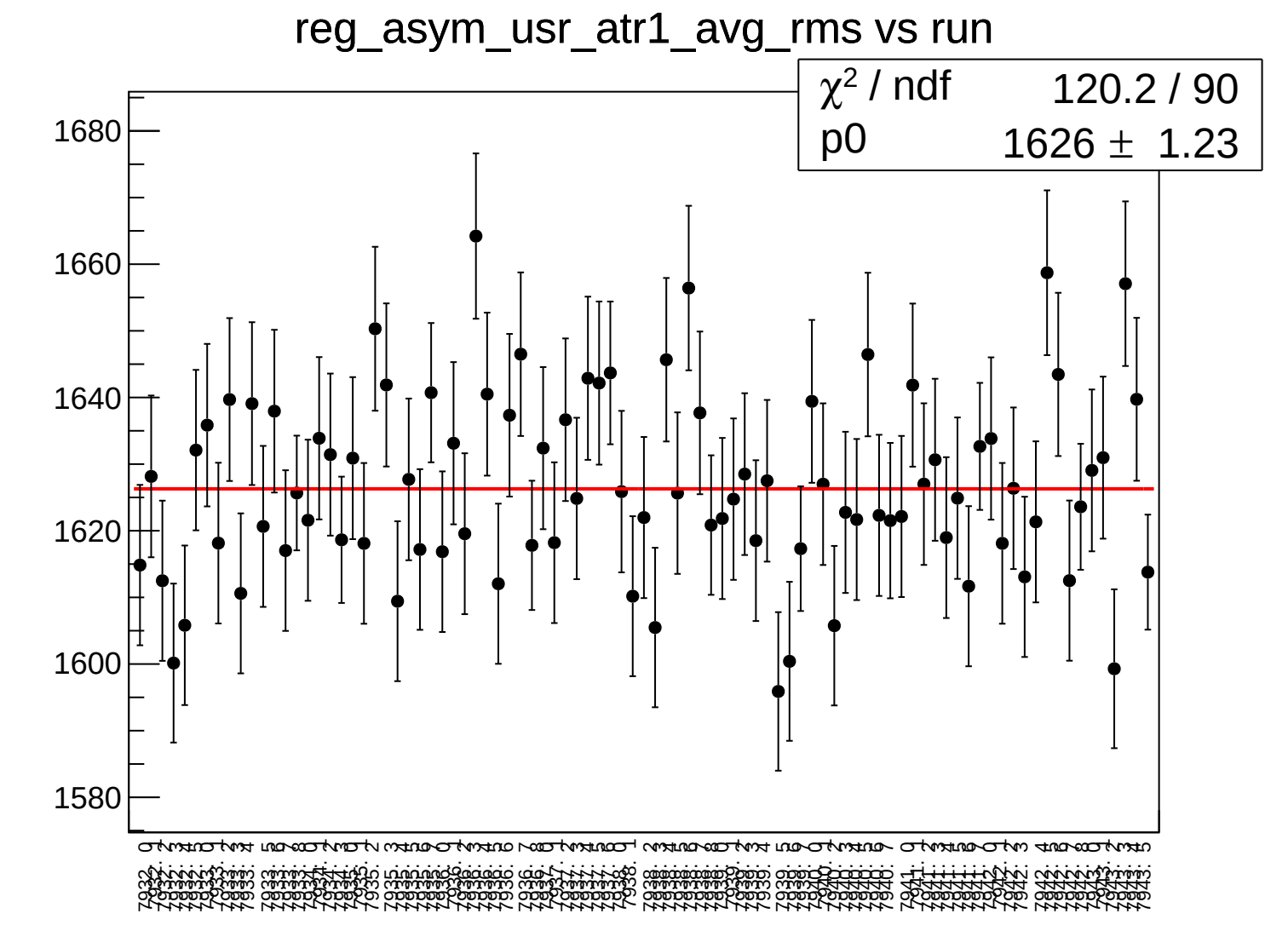

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.122e+04 / 90
p0 150.6 ± 0.1143
180
170
160
150
140
130
120

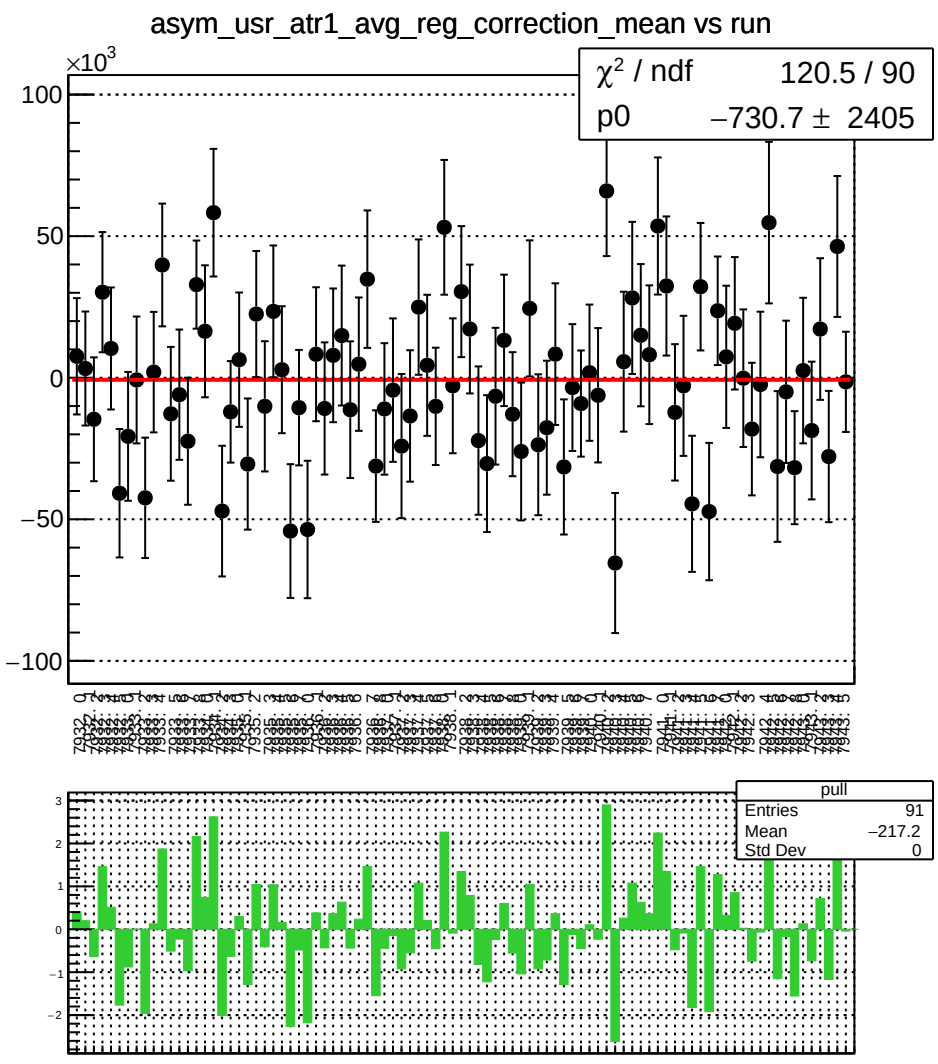

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101 / 90
p0 3.058e−13 ± 4.926e−13
pull
Entries 91
Mean 122.1
Std Dev 0
pull1D
Entries 91
Mean −0.02038
Std Dev 1.053

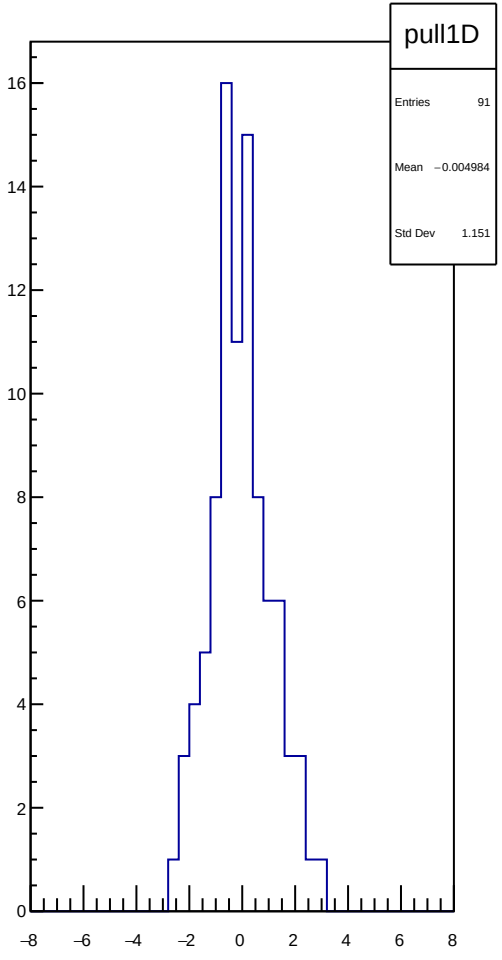

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.007e+05 / 90
p0 3.565e−10 ± 3.483e−13
3.5
3
2.5
2
1.5
1
0.5

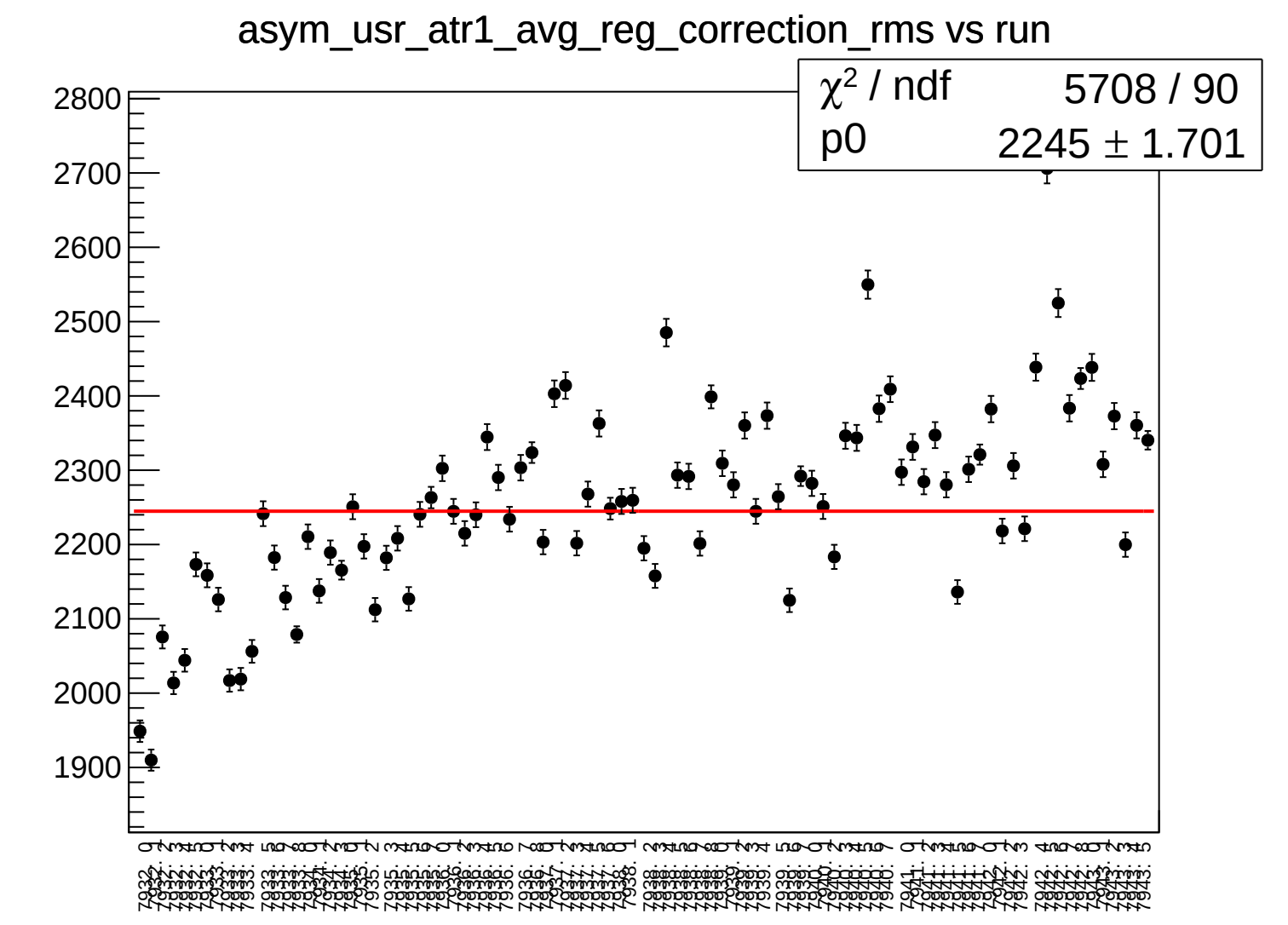

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 101.2 / 90
p0 −1757 ± 1739
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1.38e+04
Std Dev 0
3
2
1
0
−1
−2

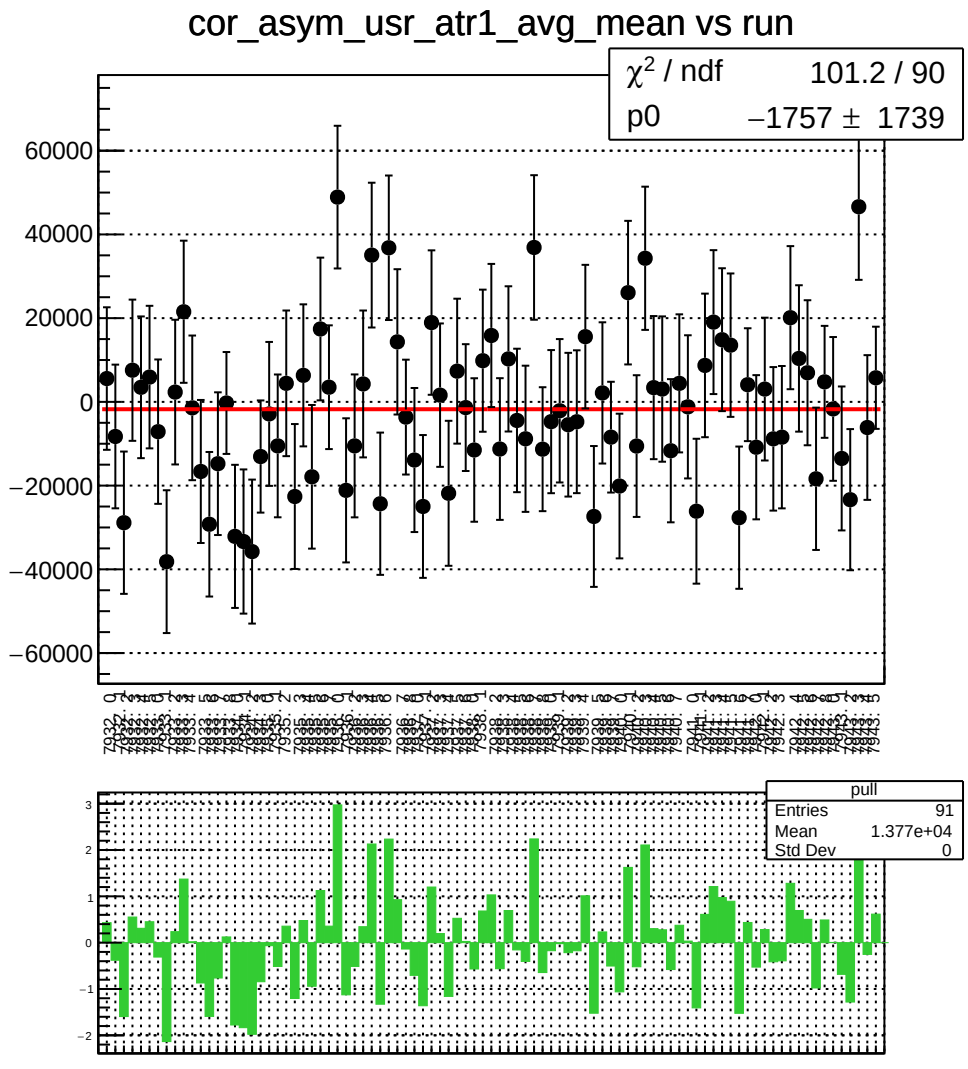

pull1D
Entries 91
Mean 0.0003515
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

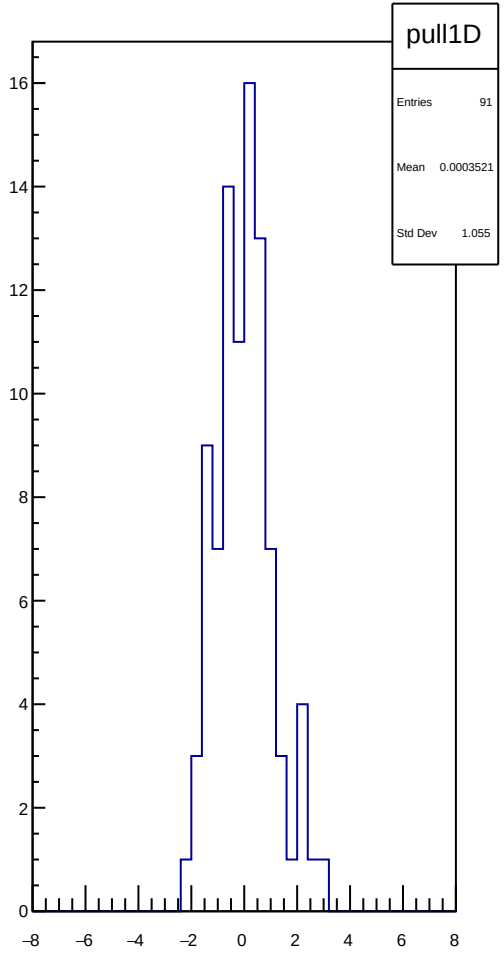

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 120.2 / 90
p0 1626 ± 1.23
1680
1660
1640
1620
1600
1580

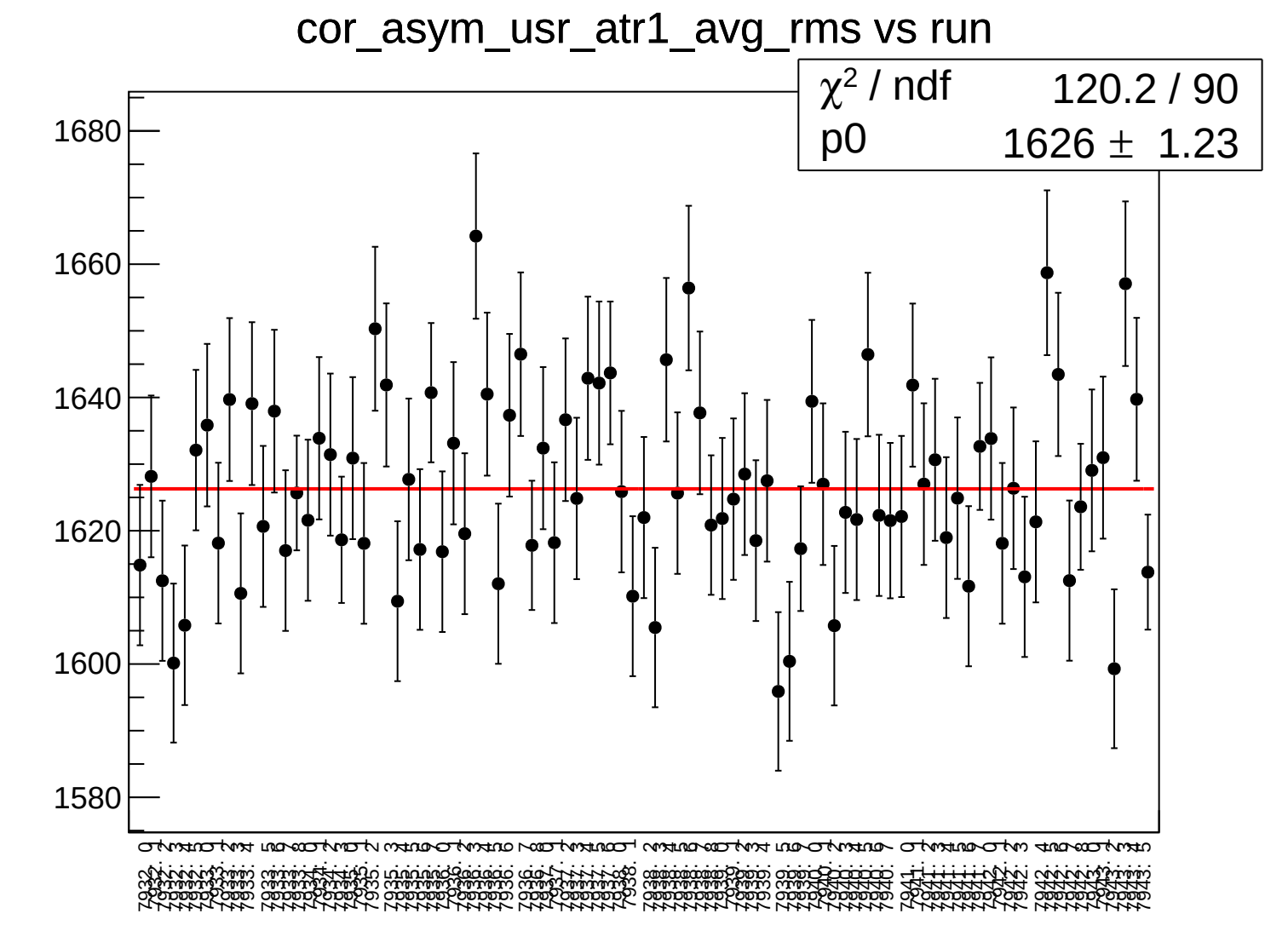

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 120.5 / 90
p0 −730.7 ± 2405
pull
Entries 91
Mean −217.2
Std Dev 0

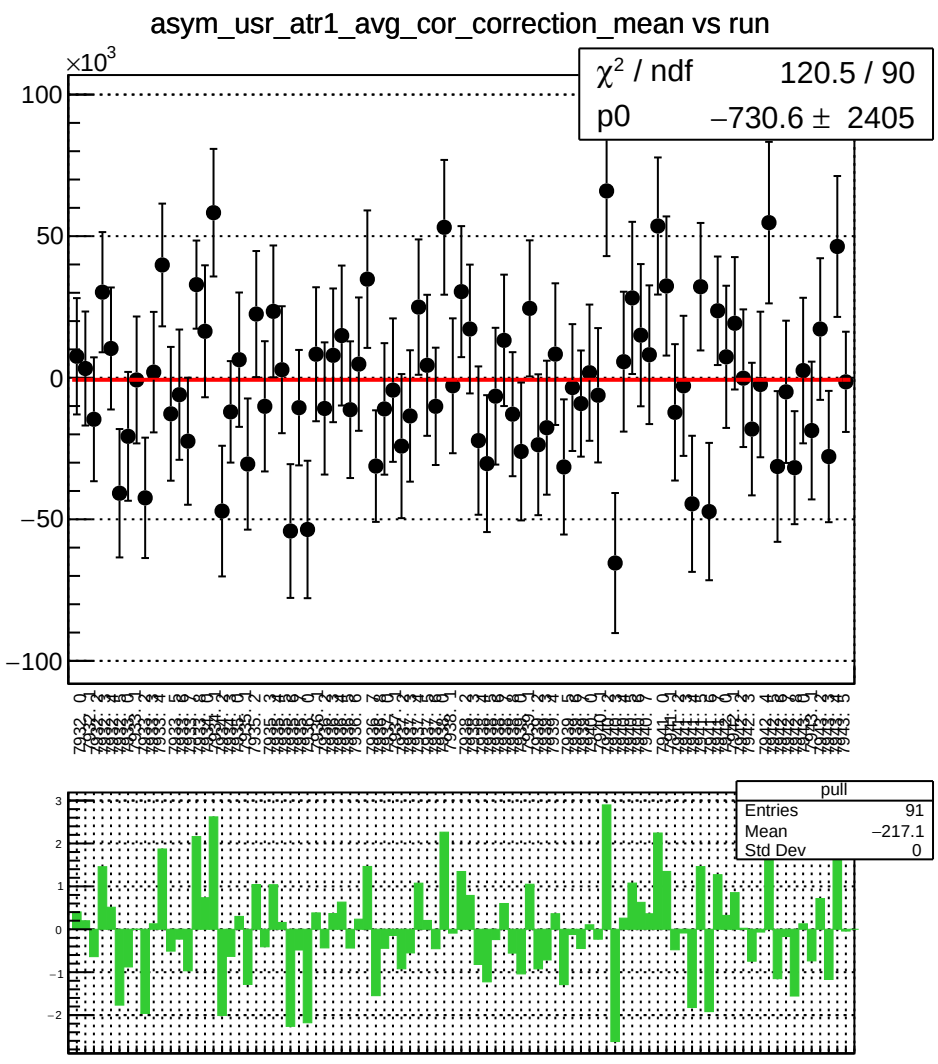

pull1D
Entries 91
Mean −0.004984
Std Dev 1.151

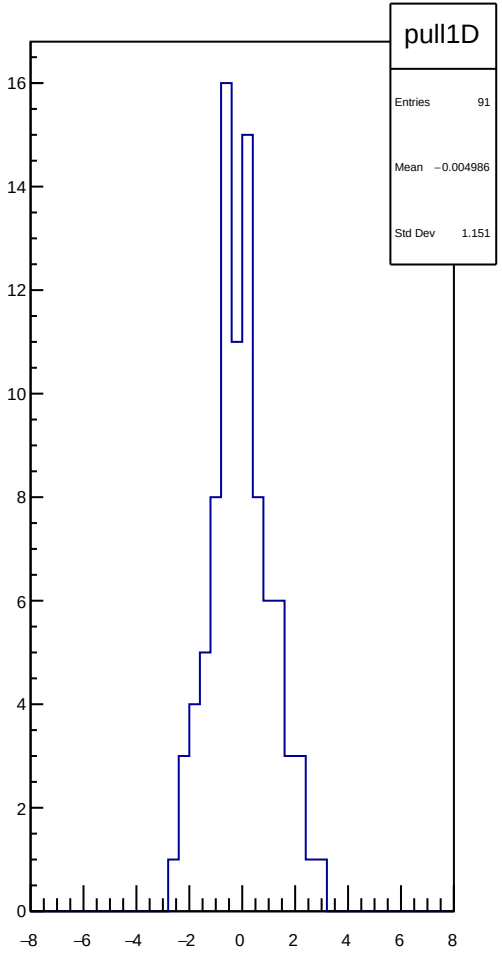

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 5708 / 90
p0 2245 ± 1.701
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

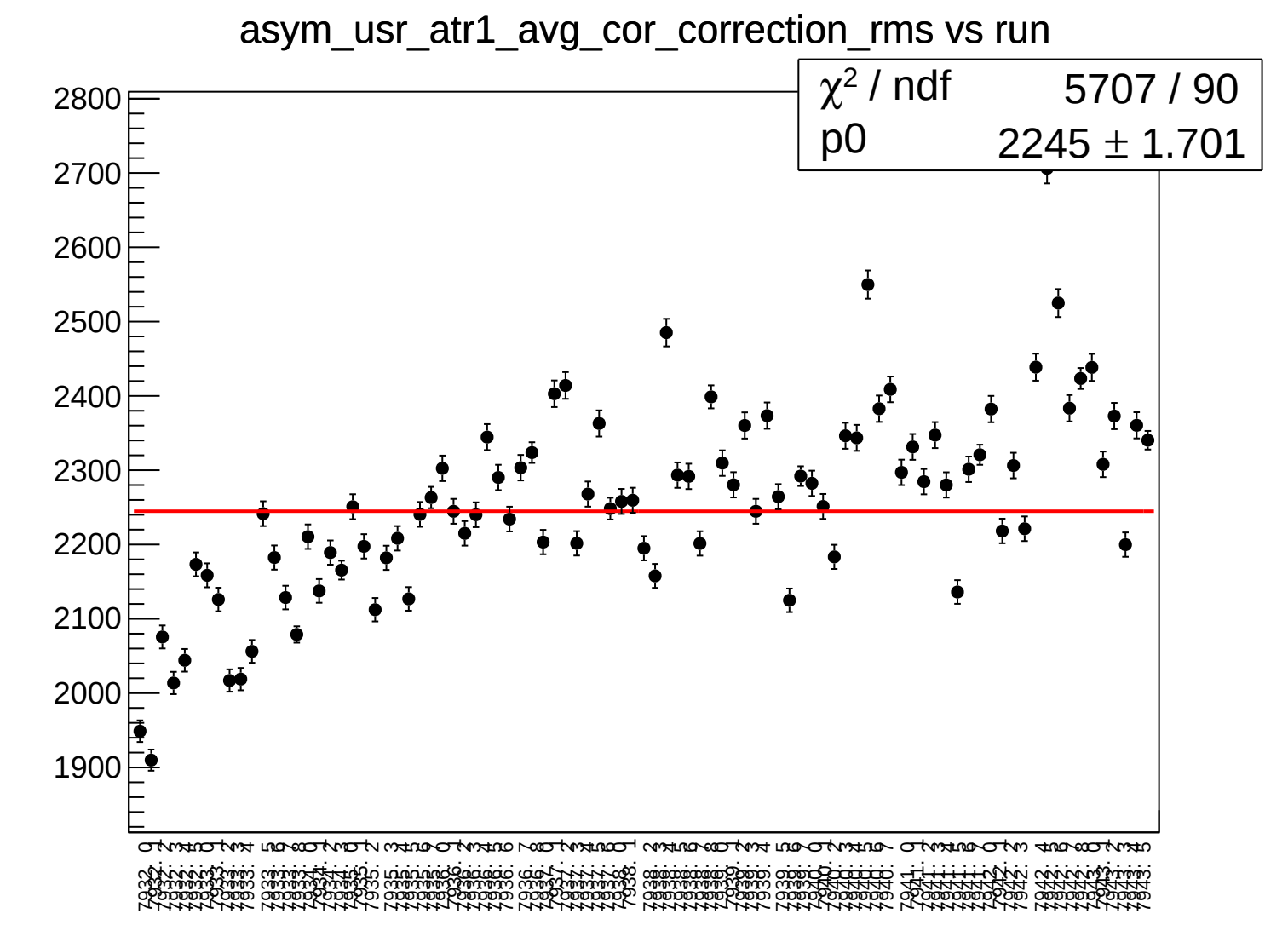

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 101.2 / 90
p0 −1757 ± 1739
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1.377e+04
Std Dev 0
3
2
1
0
−1
−2

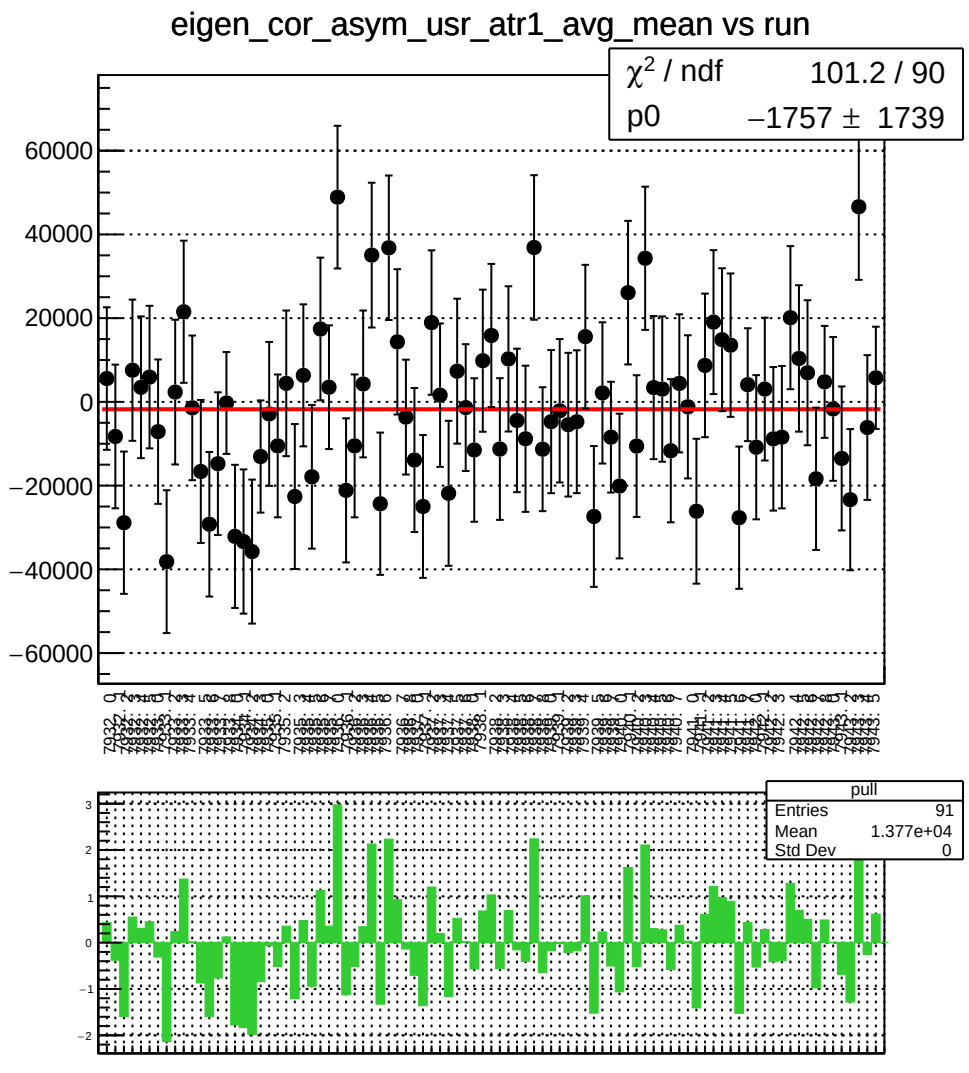

pull1D
Entries 91
Mean 0.0003521
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

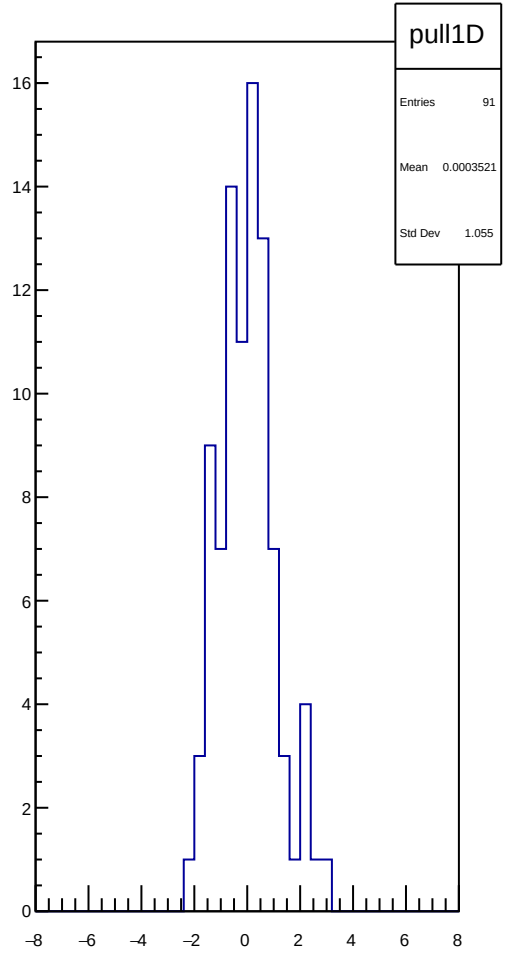

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 120.2 / 90
p0 1626 ± 1.23
1680
1660
1640
1620
1600
1580

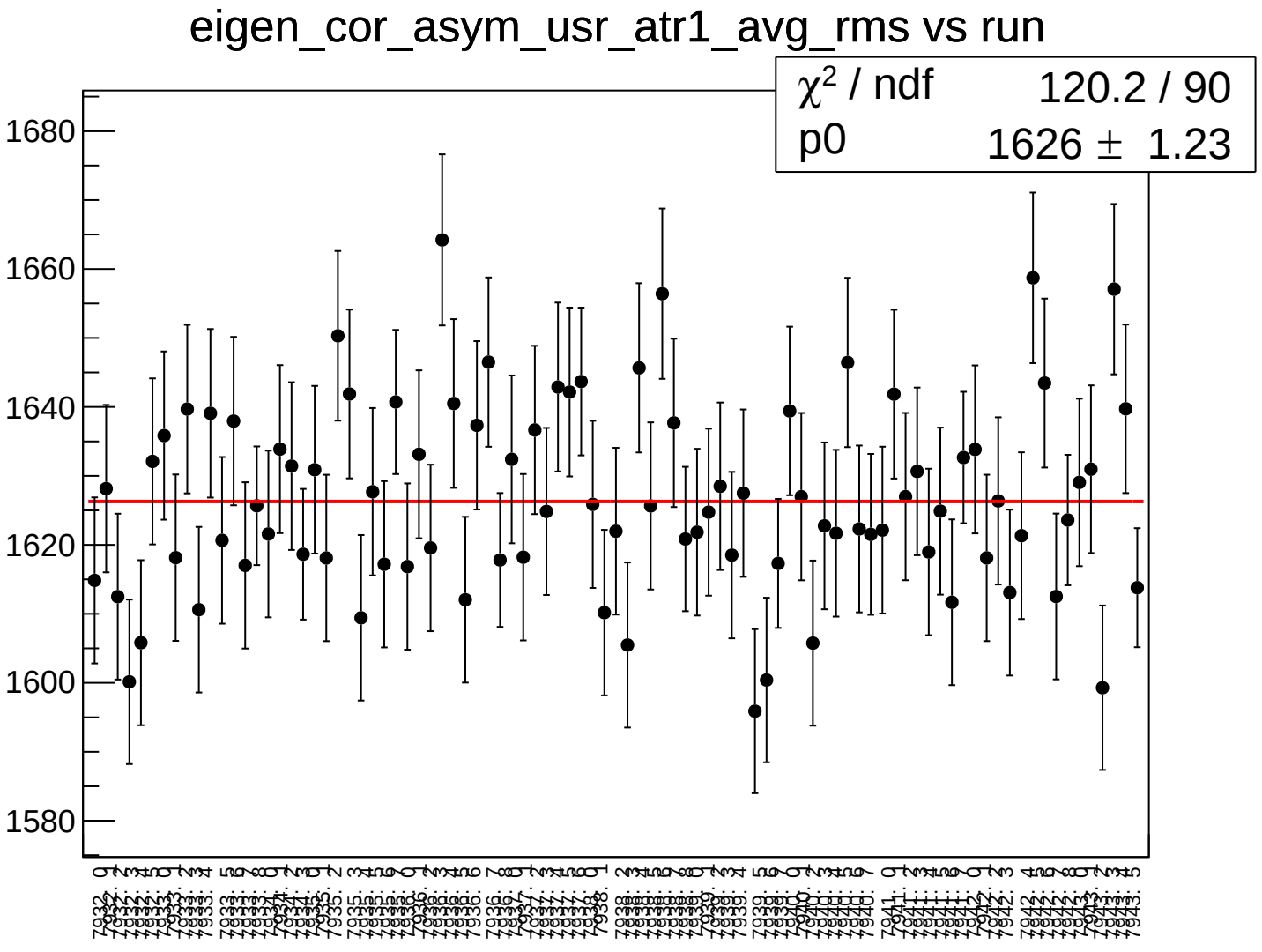

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ² / ndf 120.5 / 90
p0 −730.6 ± 2405
100
50
0
−50
−100
pull
Entries 91
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2

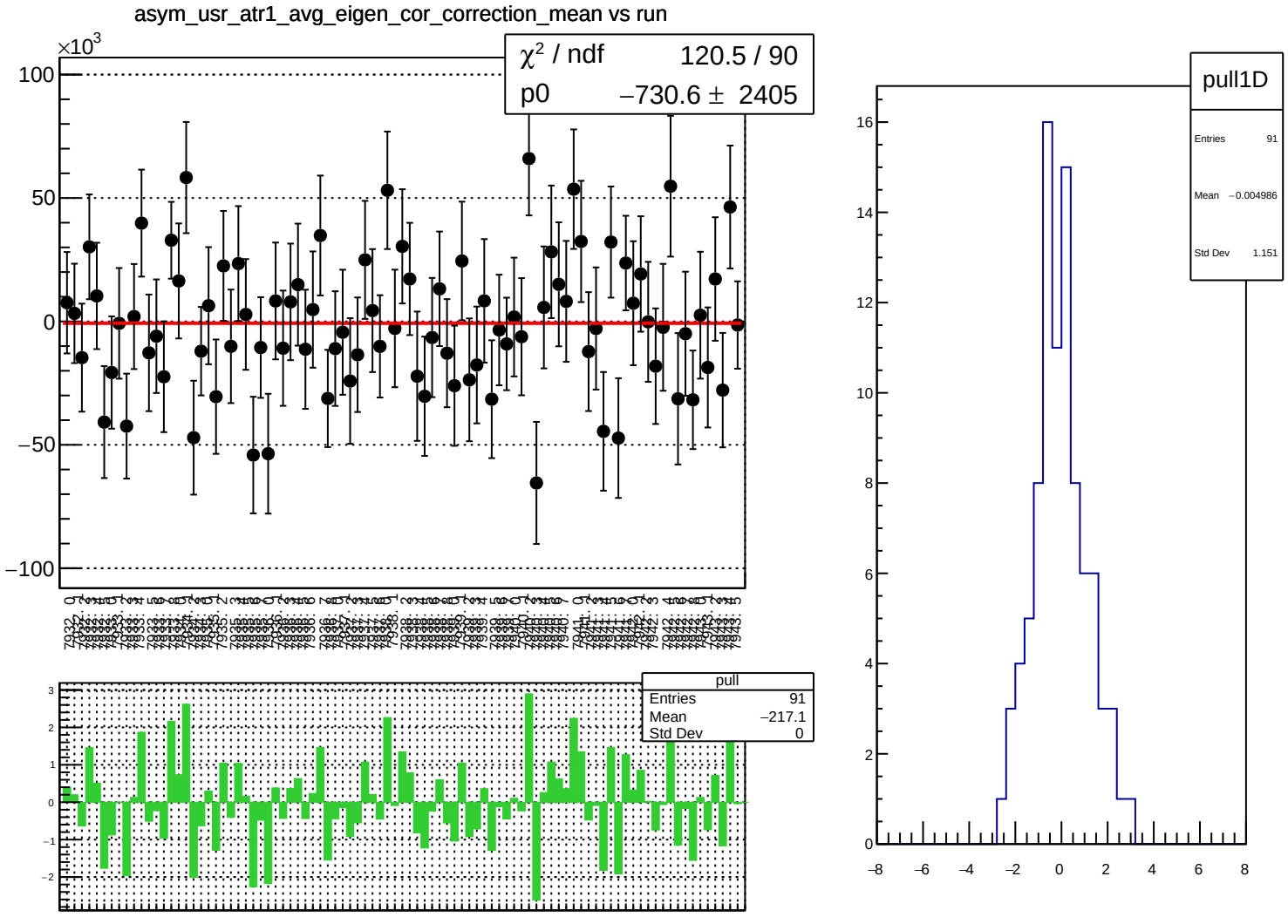

pull1D
Entries 91
Mean −0.004986
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

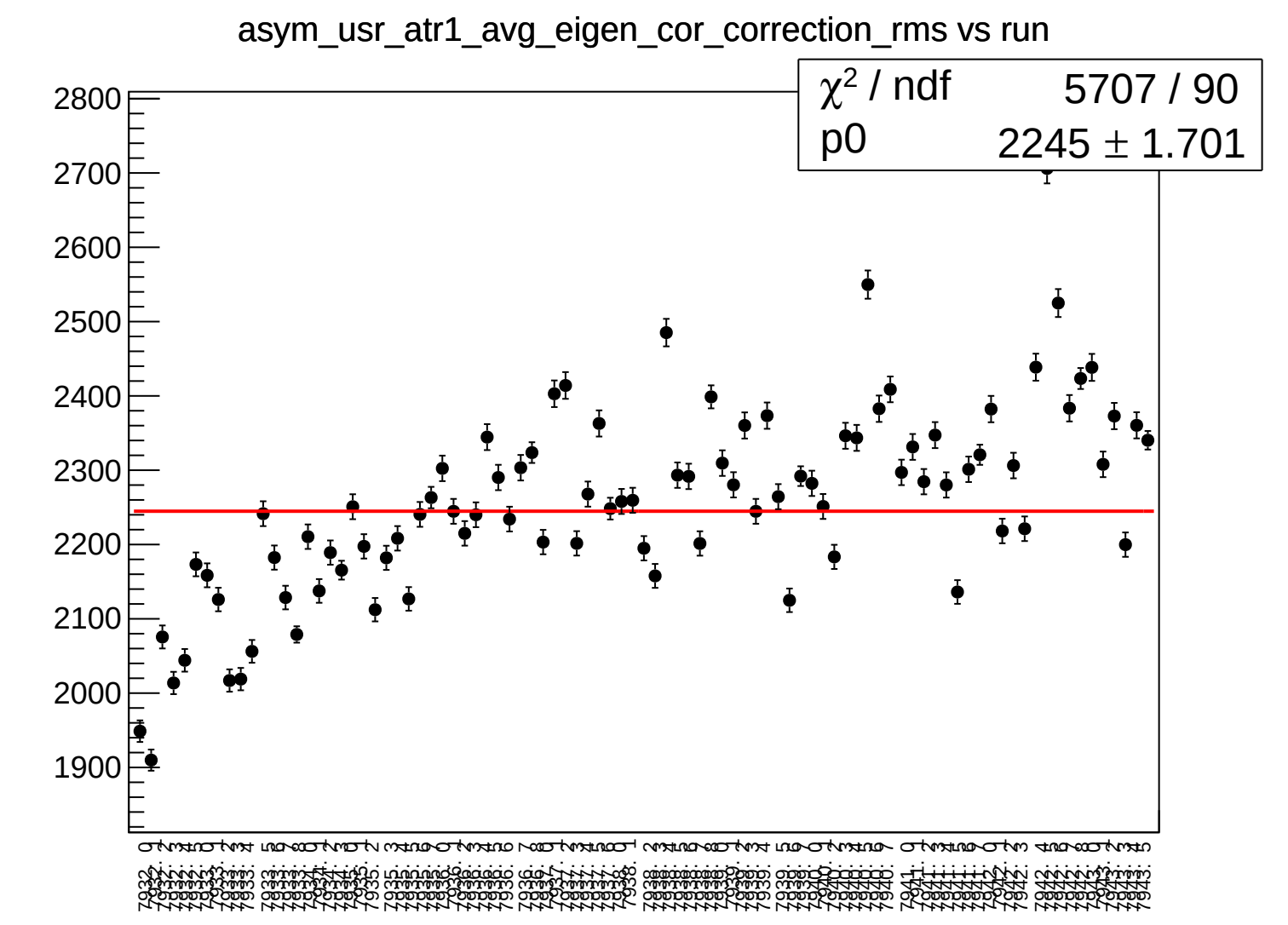

asym_usr_atr1_avg_cor_correction_rms vs run
χ^2 / ndf 5707 / 90
p0 2245 ± 1.701
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

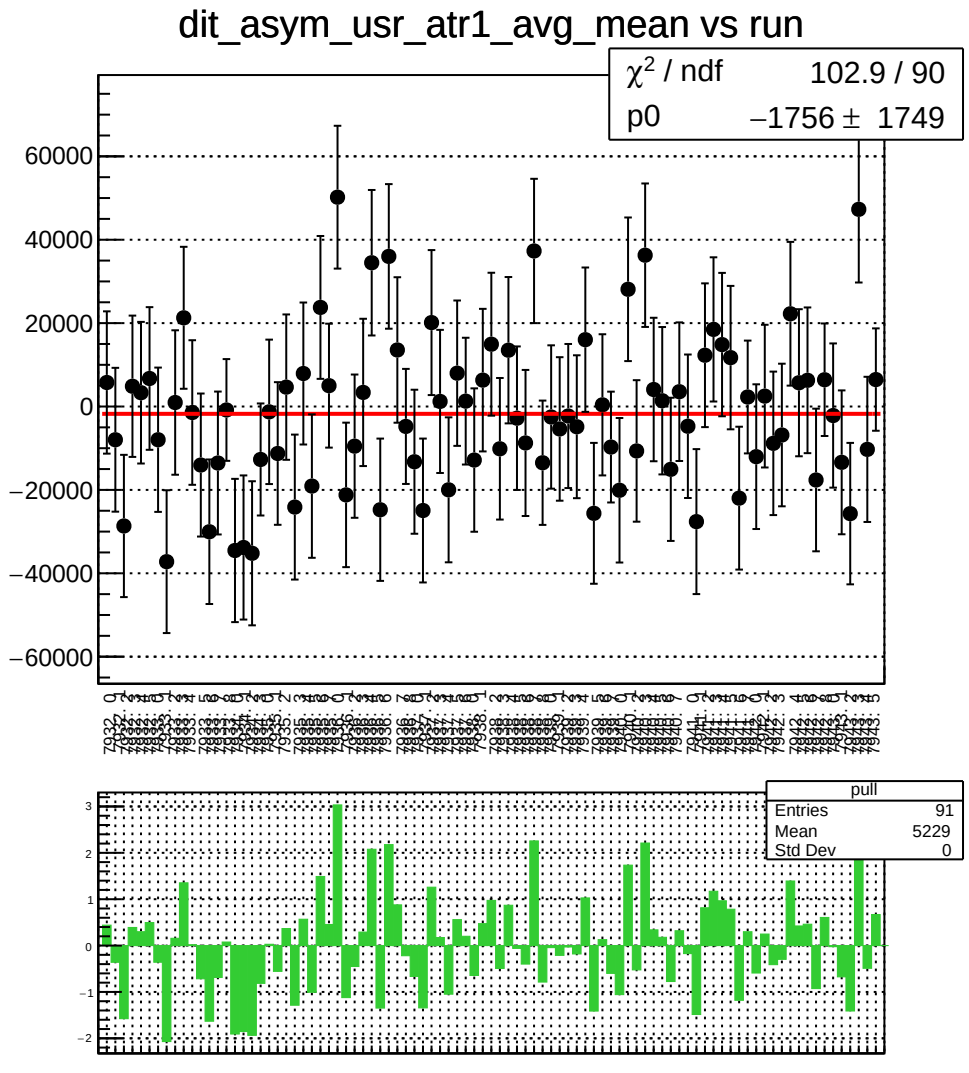

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 101.2 / 90
p0 −1757 ± 1739
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1.377e+04
Std Dev 0
3
2
1
0
−1
−2

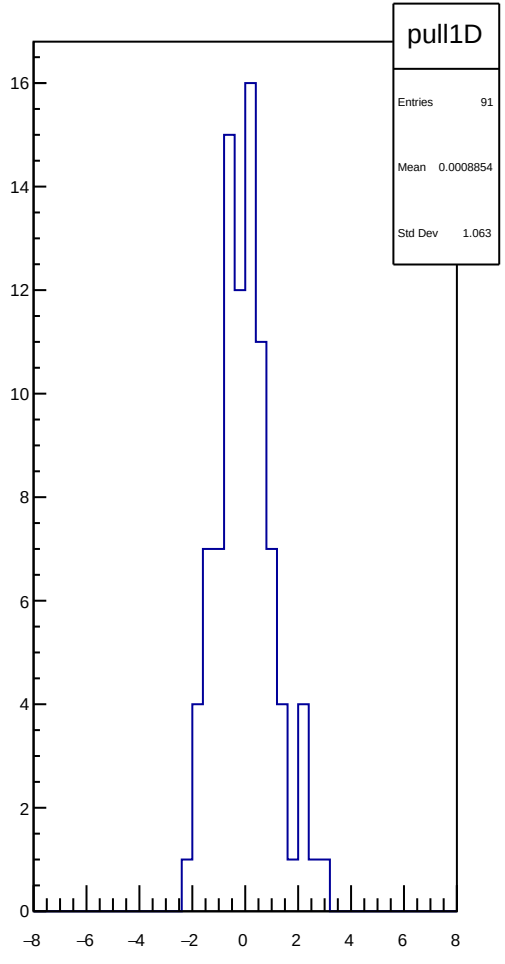

pull1D
Entries 91
Mean 0.0003521
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

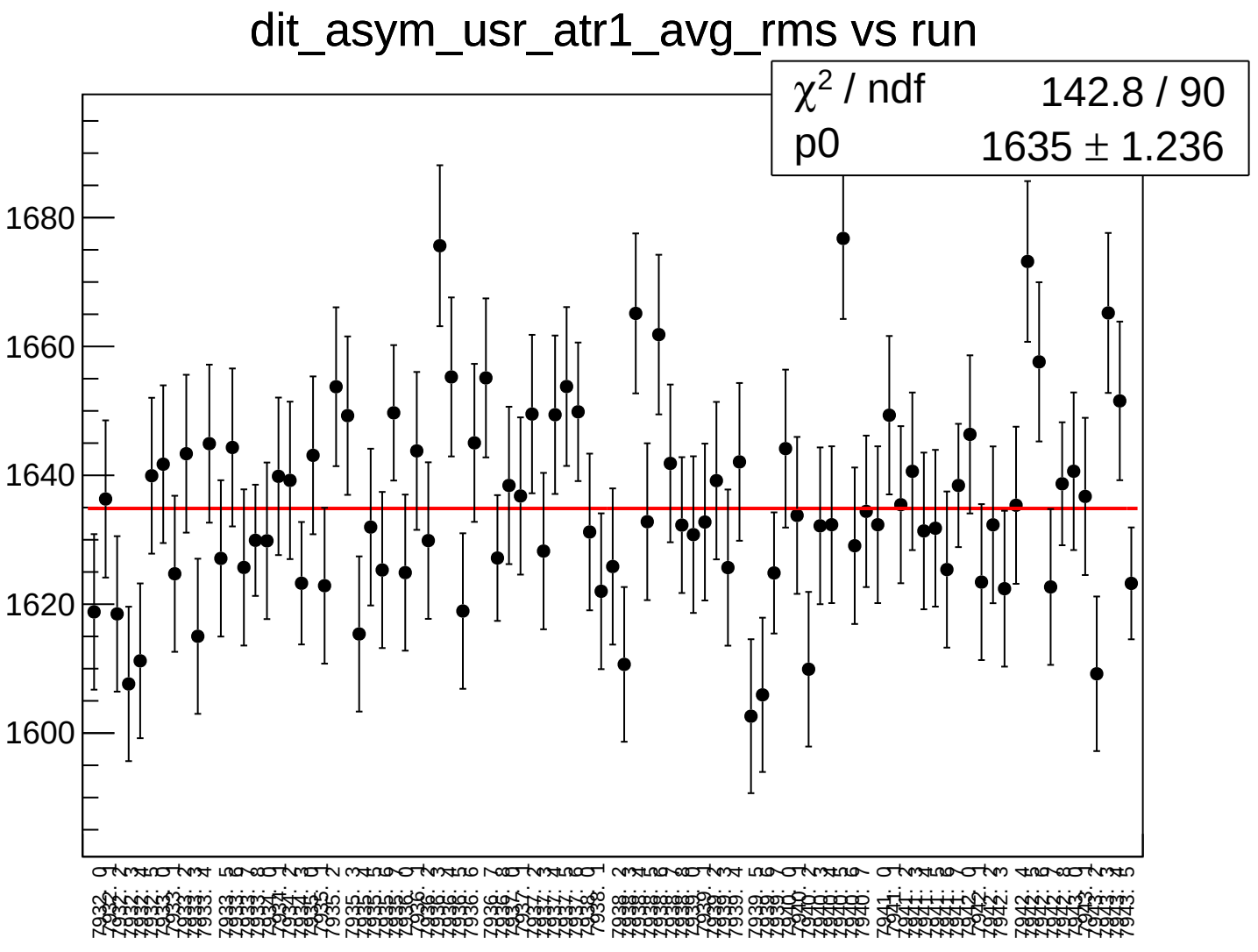

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 120.2 / 90
p0 1626 ± 1.23
1680
1660
1640
1620
1600
1580

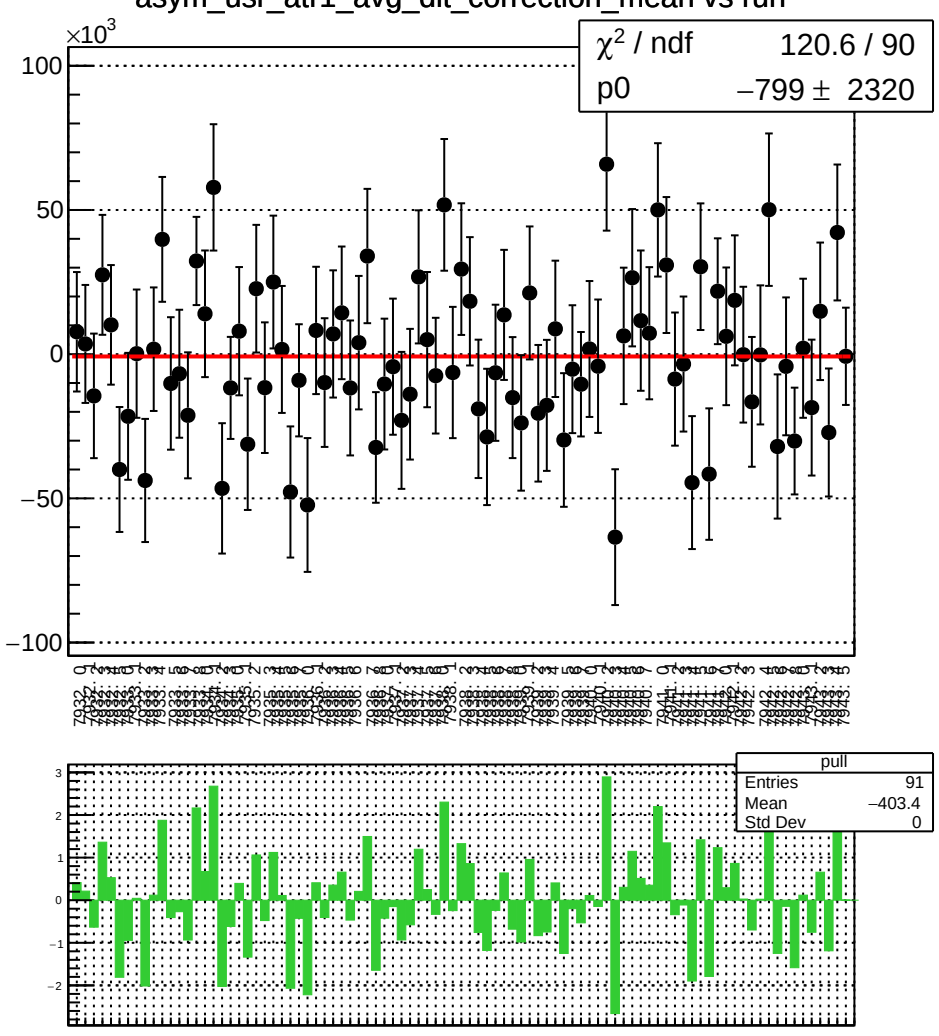

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 120.5 / 90
p0 −730.6 ± 2405
100
50
0
−50
−100
pull
Entries 91
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.004986
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

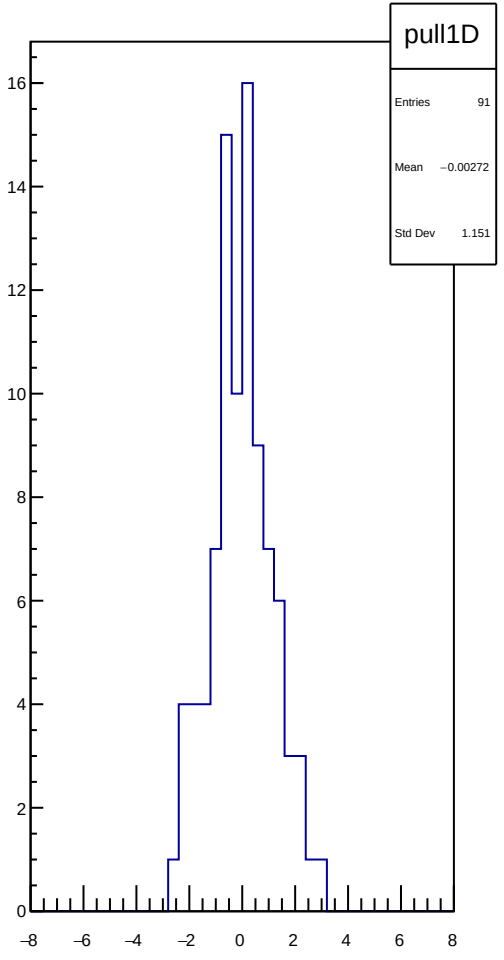

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5707 / 90
p0 2245 ± 1.701
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

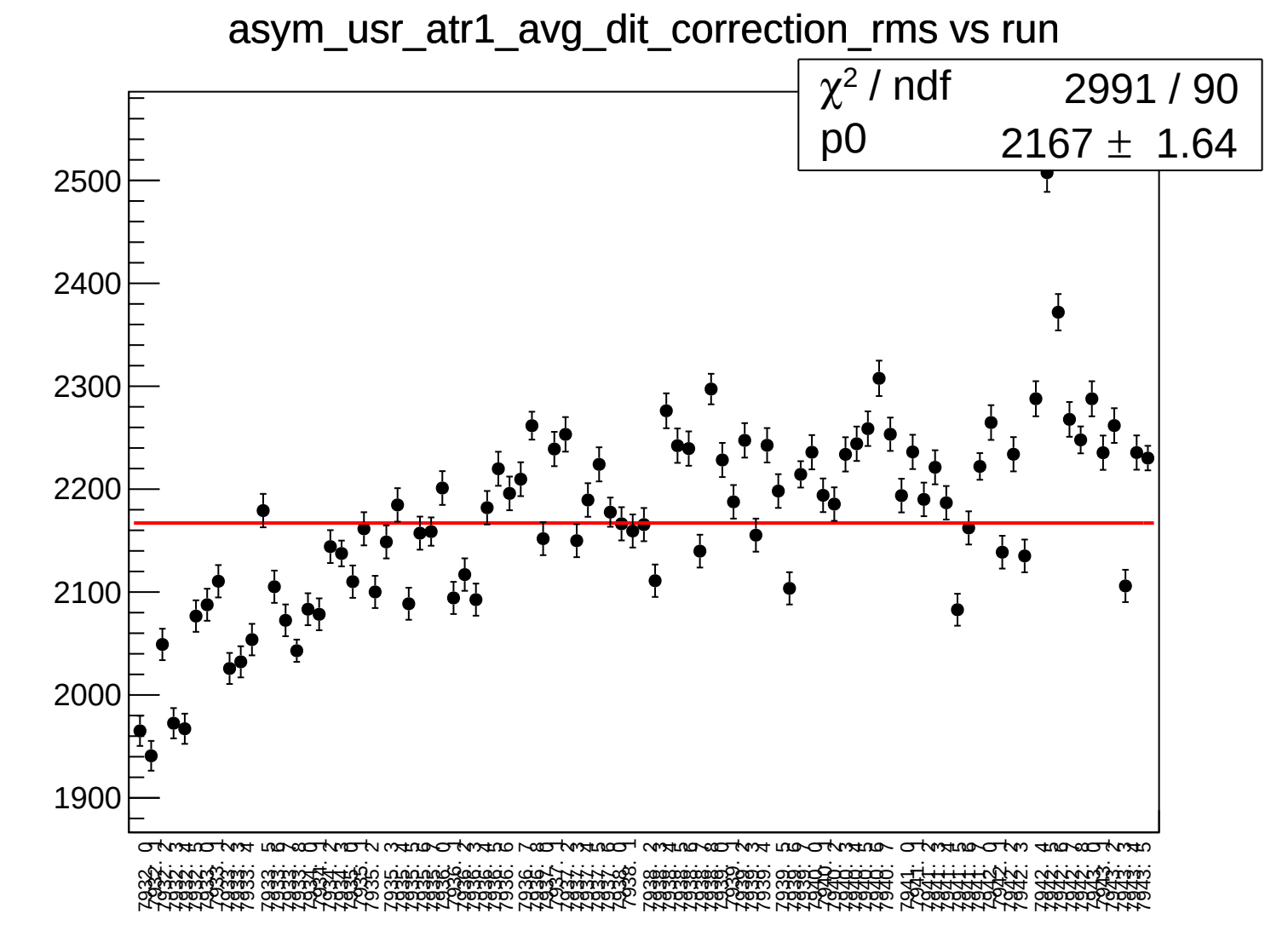

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.9 / 90
p0 −1756 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 5229
Std Dev 0
3
2
1
0
−1
−2

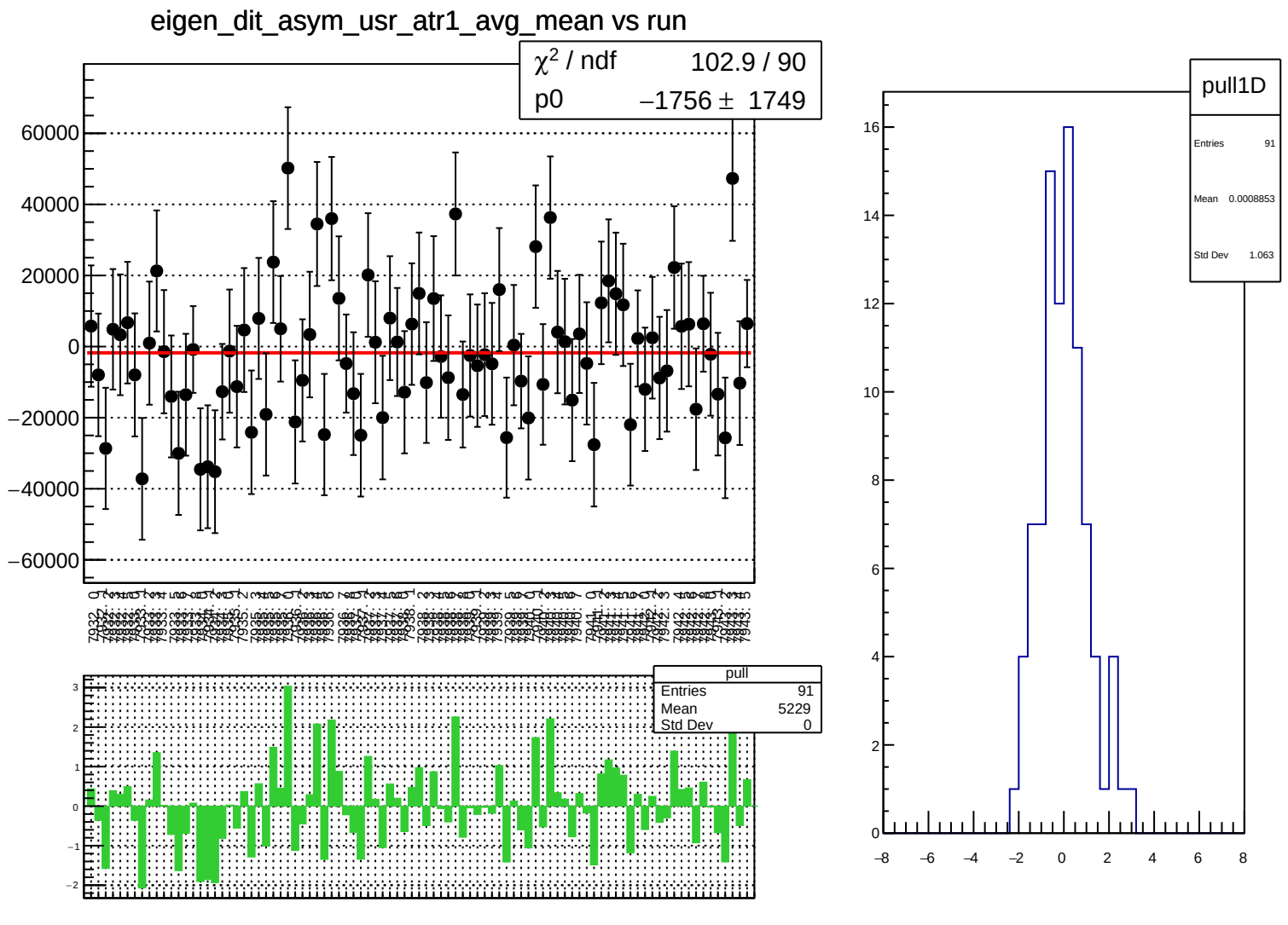

pull1D
Entries 91
Mean 0.0008854
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

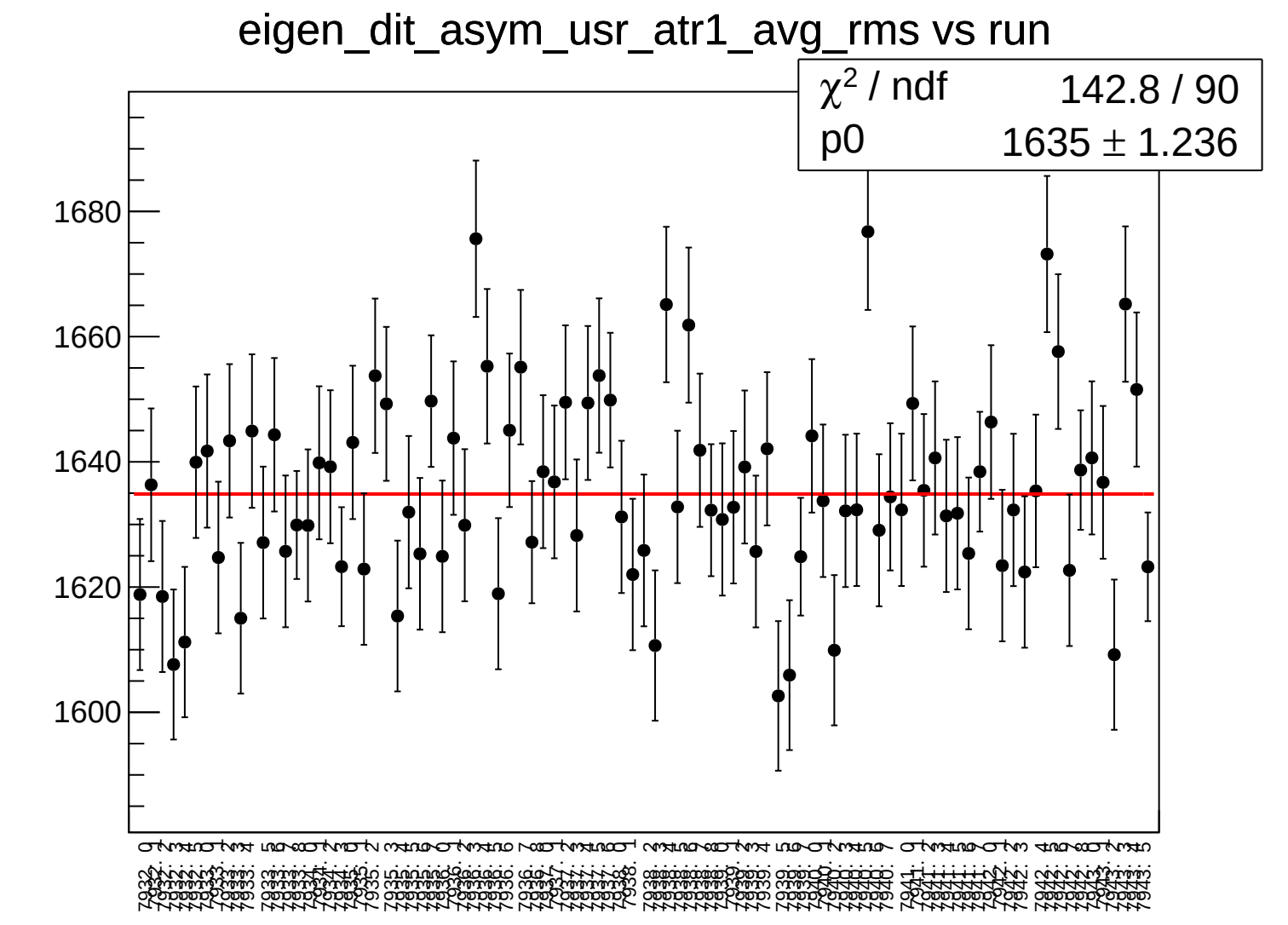

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 142.8 / 90
p0 1635 ± 1.236
1680
1660
1640
1620
1600

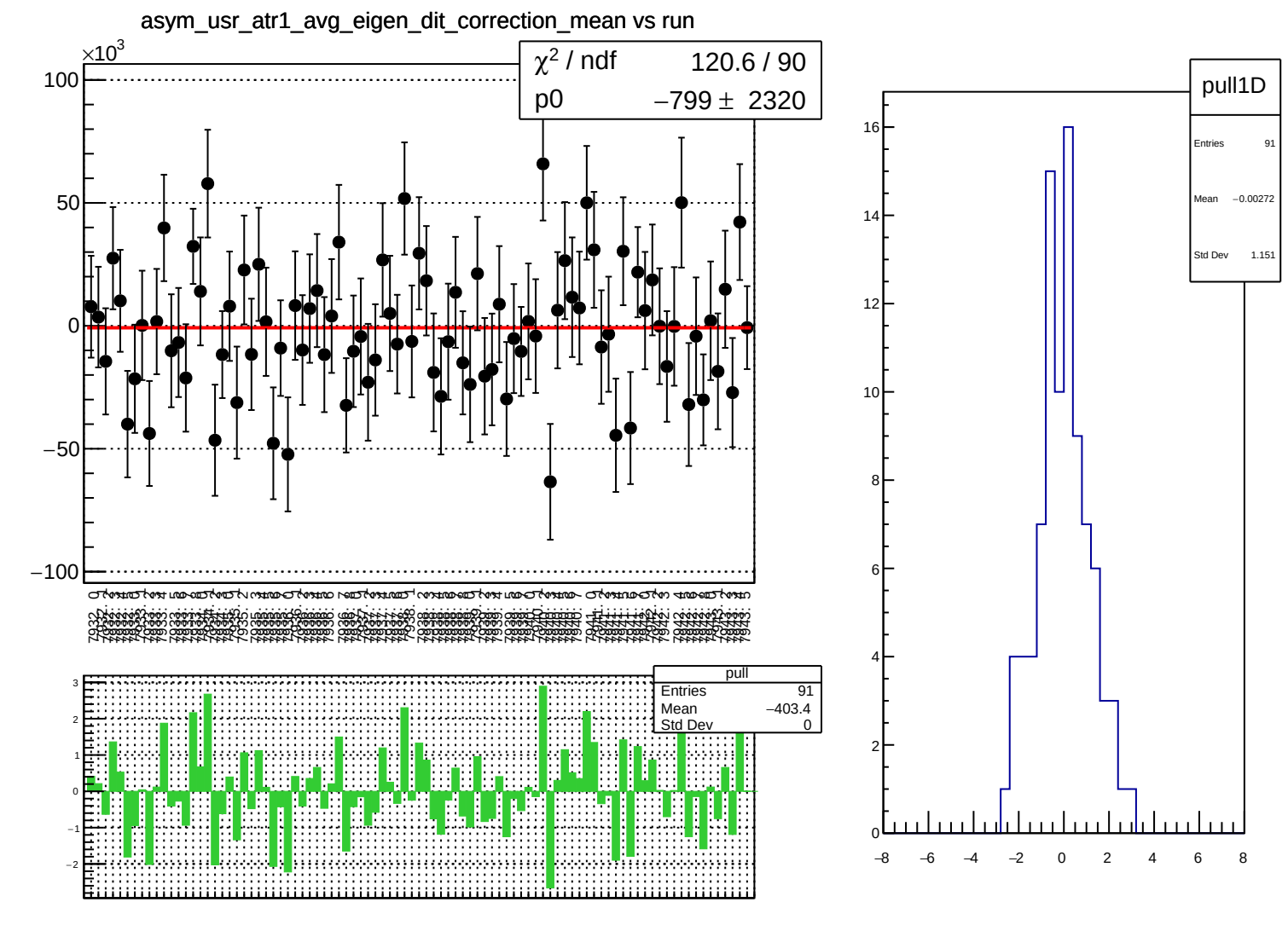

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 120.6 / 90
p0 −799 ± 2320
pull
Entries 91
Mean −403.4
Std Dev 0

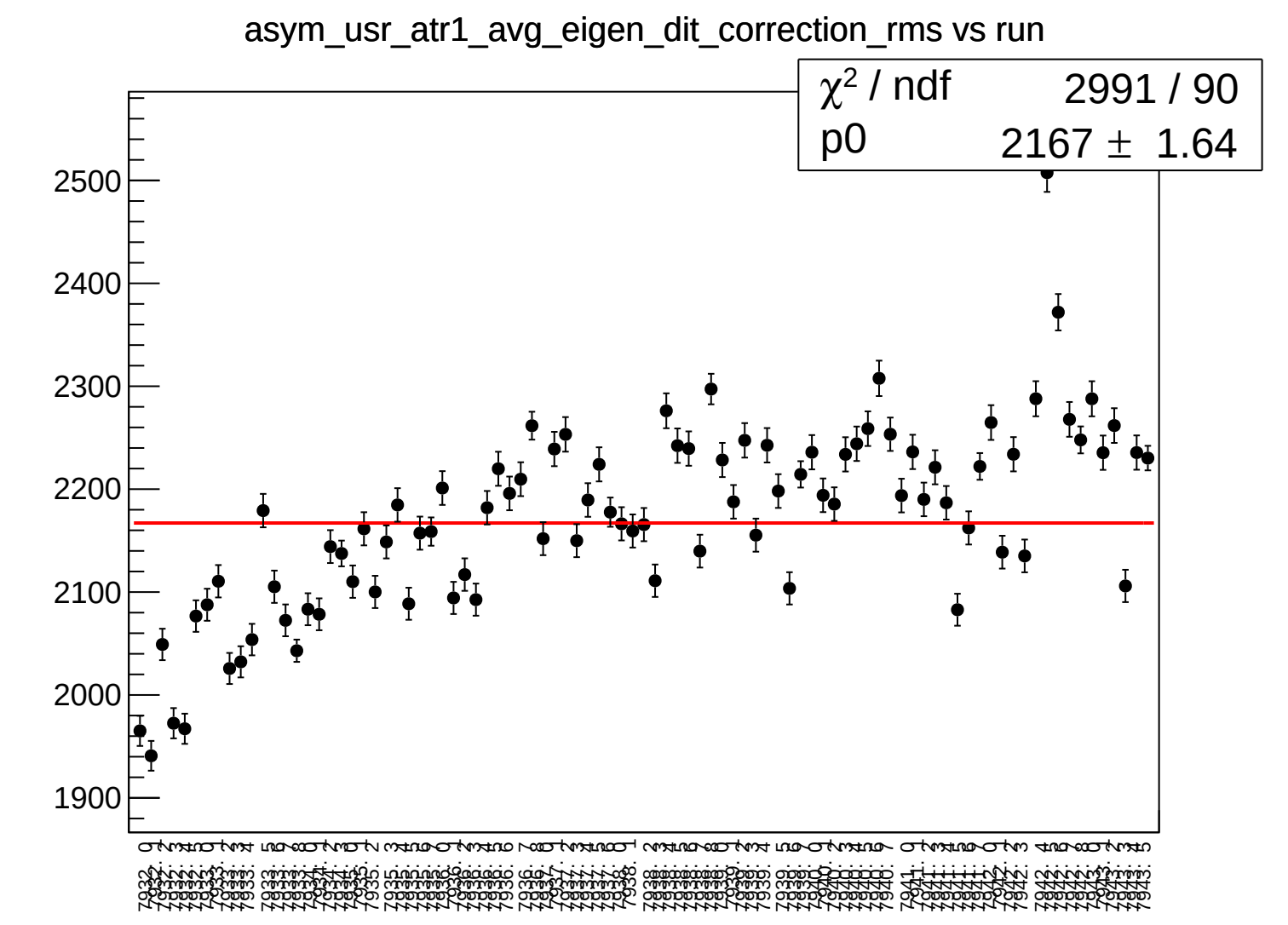

pull1D
Entries 91
Mean −0.00272
Std Dev 1.151

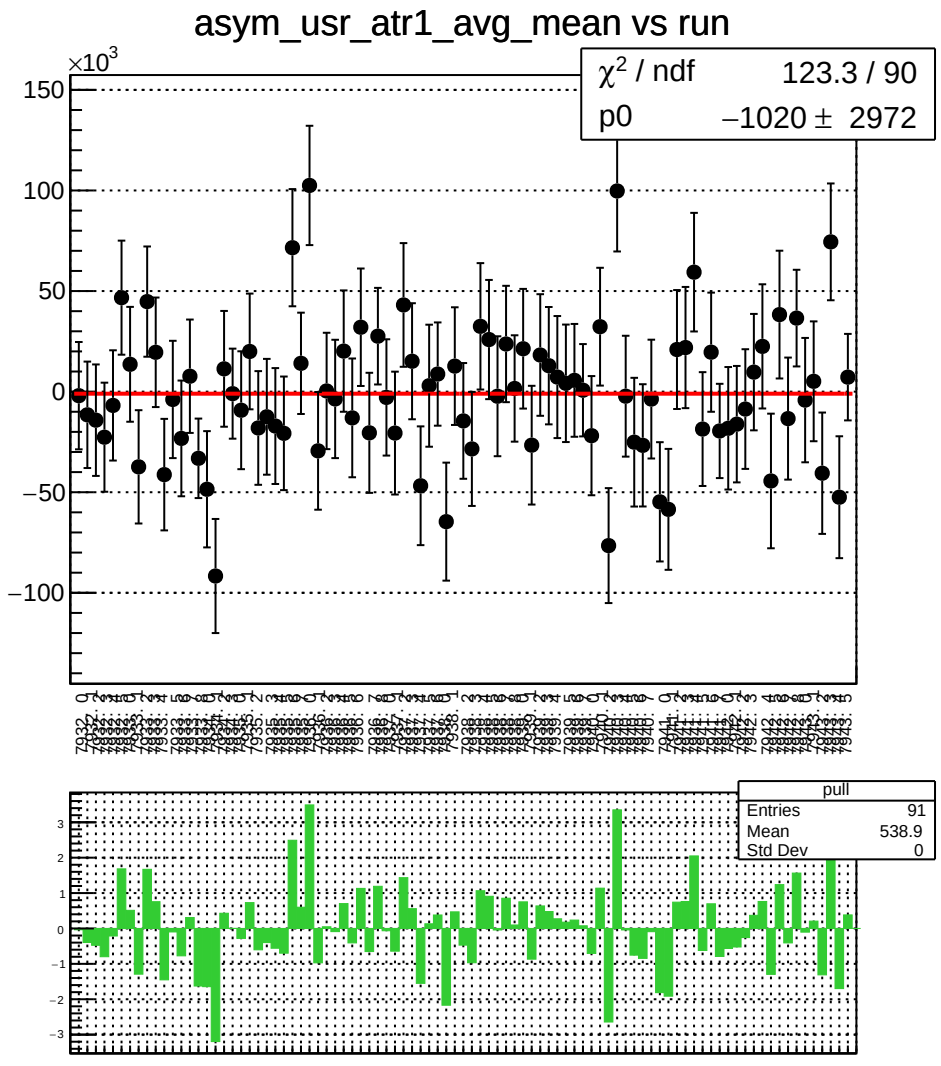

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2991 / 90
p0 2167 ± 1.64
2500
2400
2300
2200
2100
2000
1900

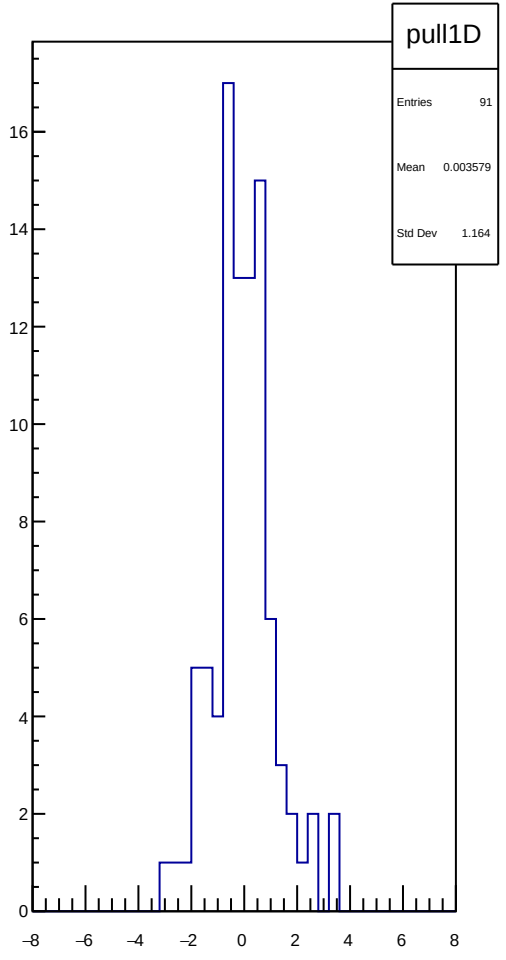

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.9 / 90
p0 −1756 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 5229
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0008853
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

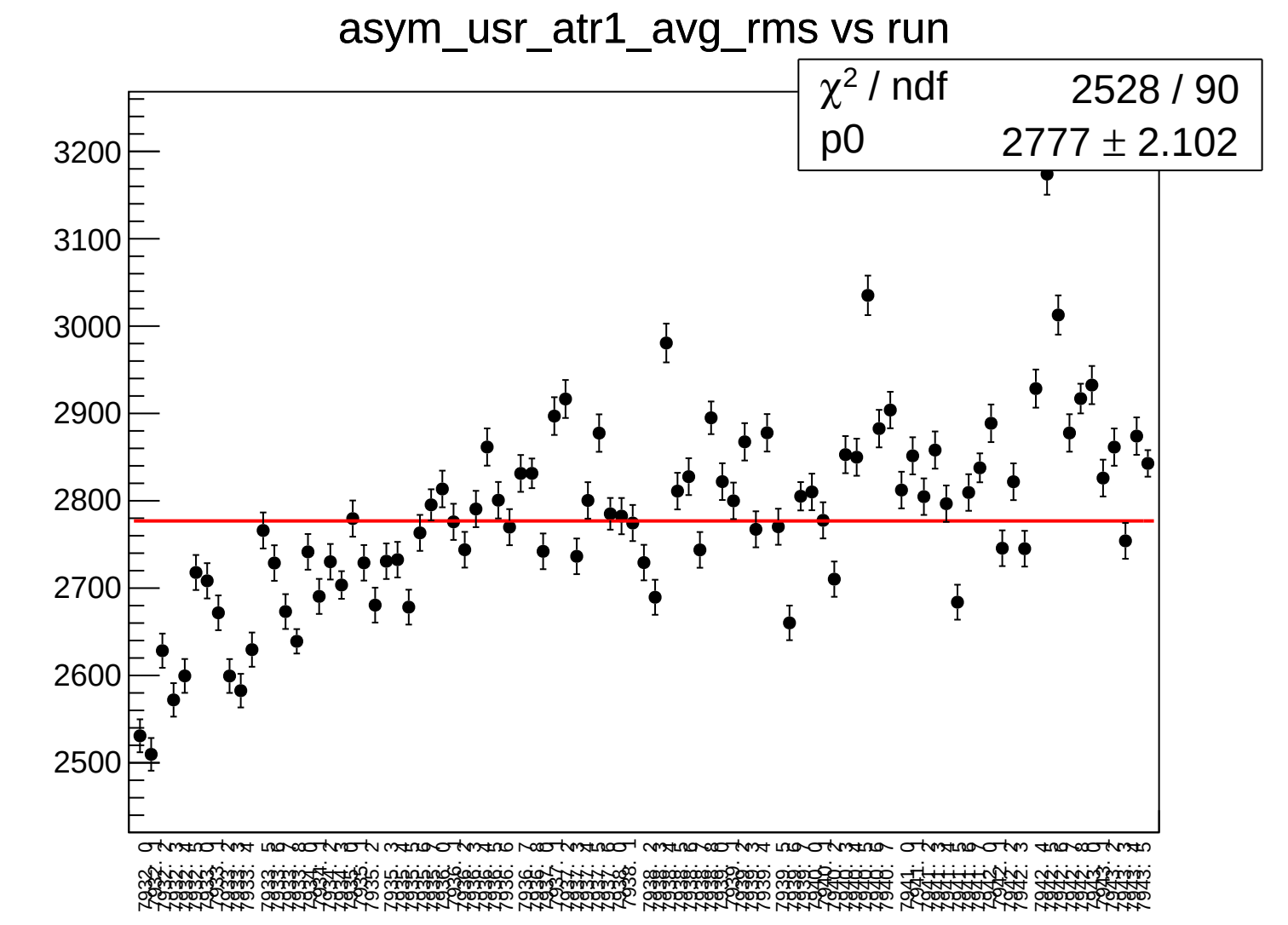

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 142.8 / 90
p0 1635 ± 1.236
1680
1660
1640
1620
1600

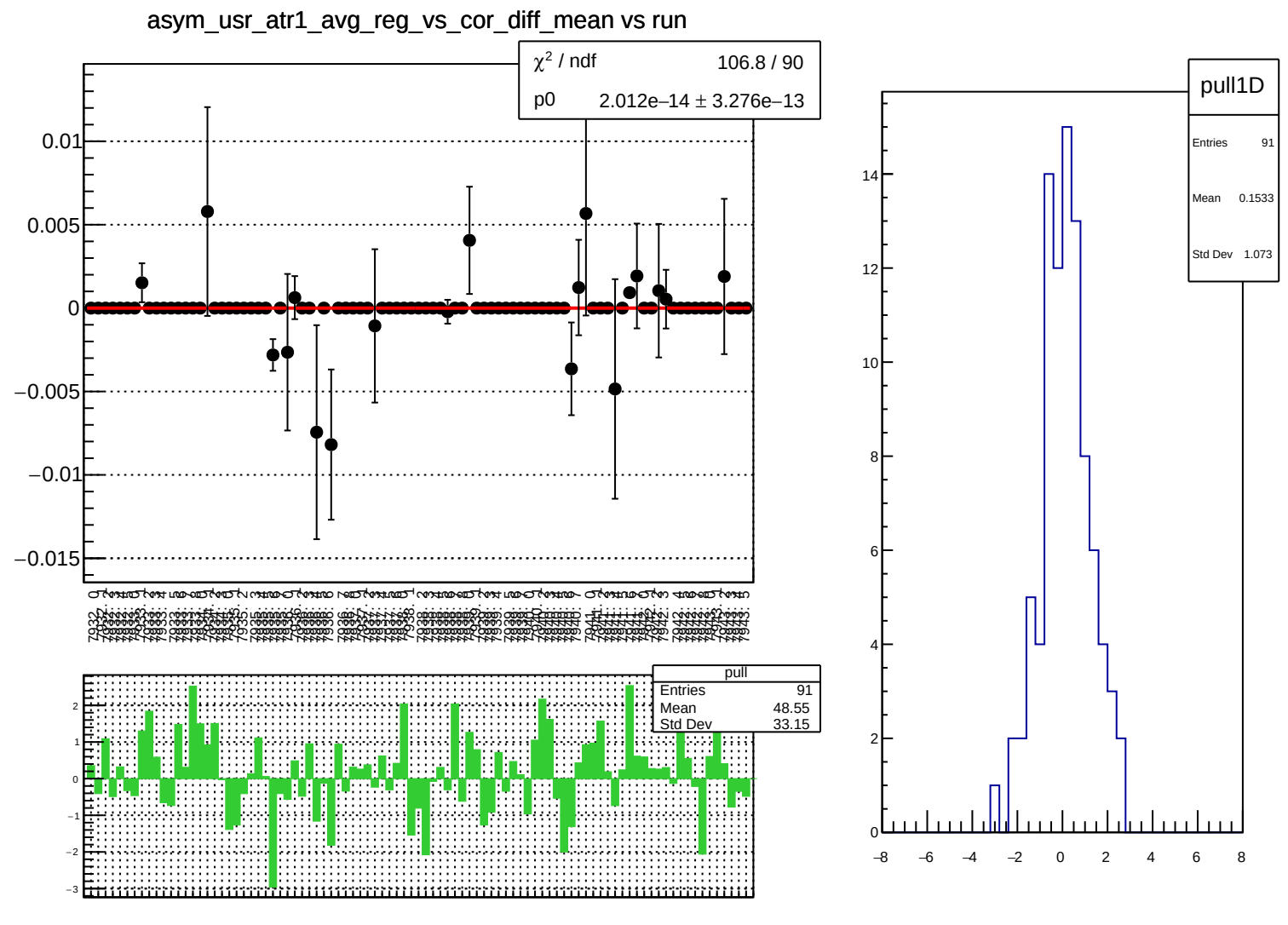

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.6 / 90
p0 −799 ± 2320
pull
Entries 91
Mean −403.4
Std Dev 0
pull1D
Entries 91
Mean −0.00272
Std Dev 1.151

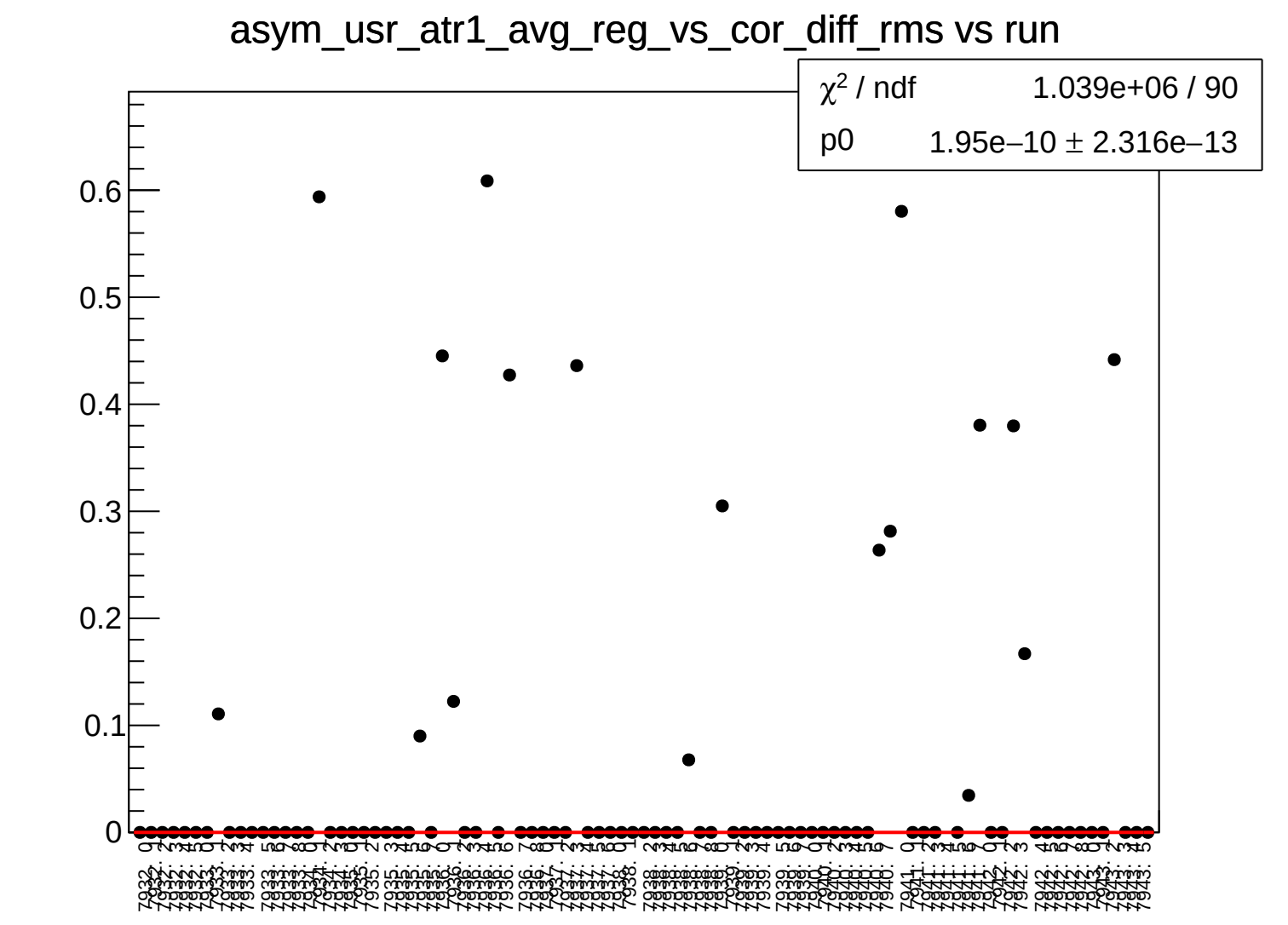

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2991 / 90
p0 2167 ± 1.64
2500
2400
2300
2200
2100
2000
1900

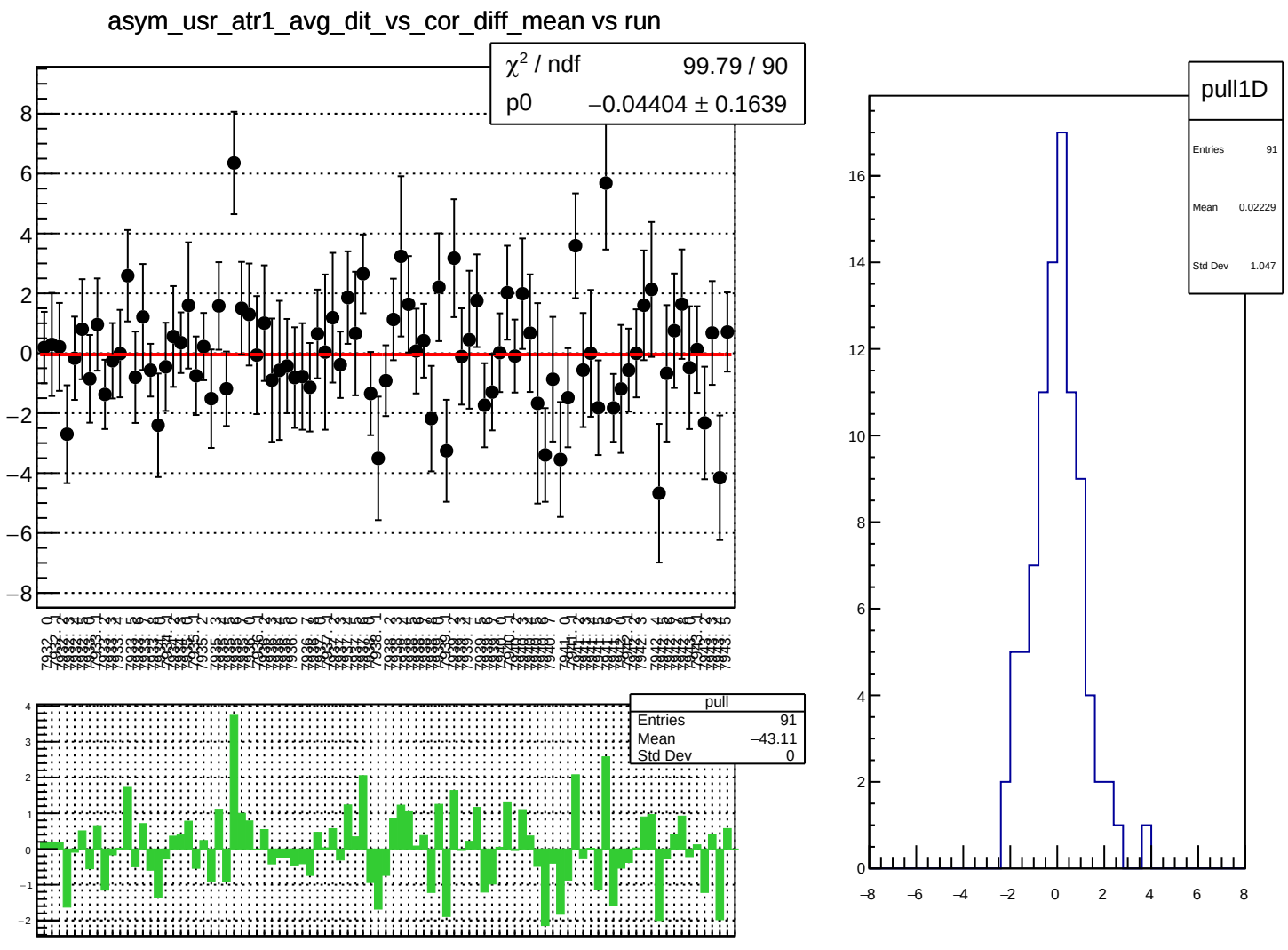

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 123.3 / 90
p0 −1020 ± 2972
150
100
50
0
−50
−100
pull
Entries 91
Mean 538.9
Std Dev 0
3
2
1
0
−1
−2
−3

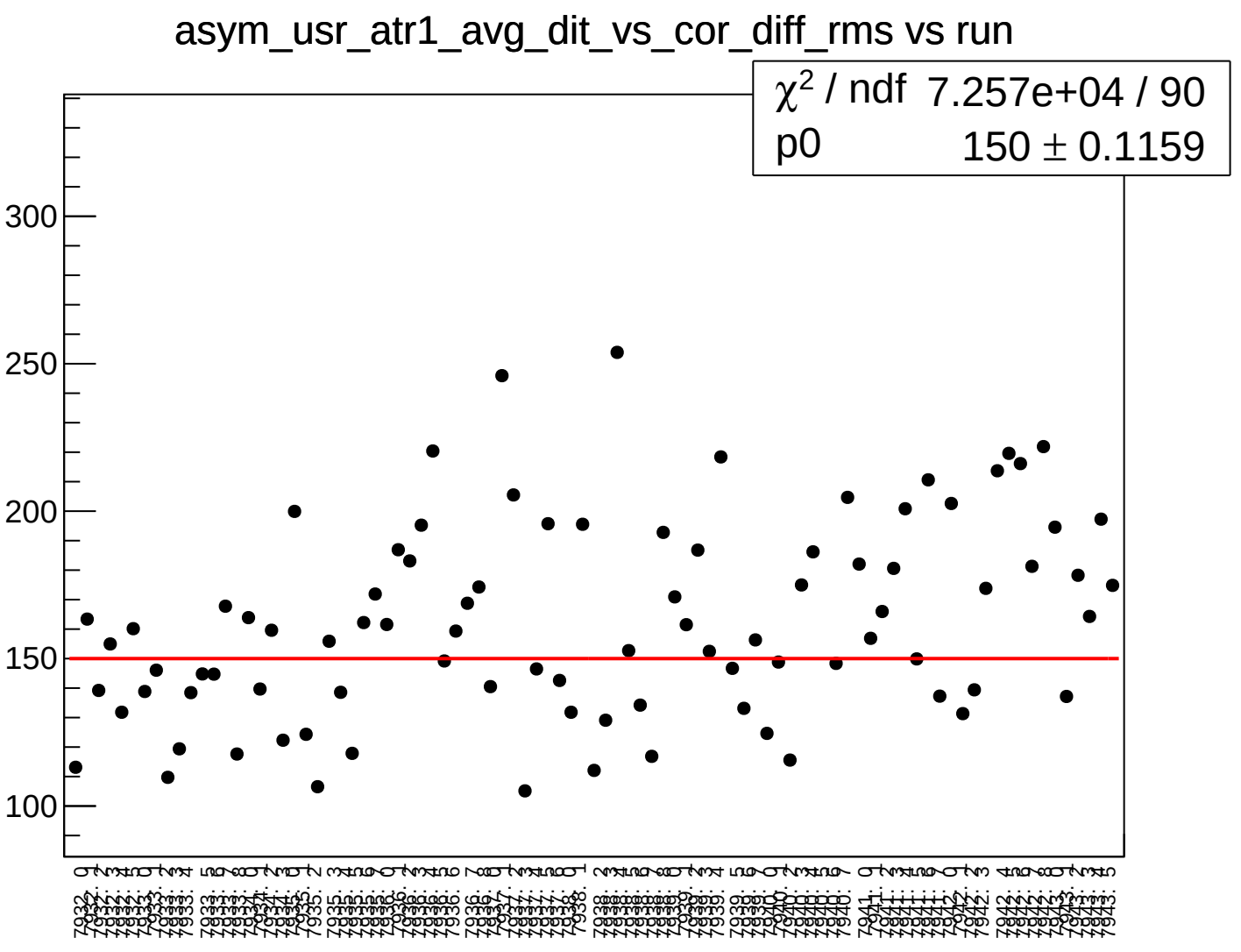

pull1D
Entries 91
Mean 0.003579
Std Dev 1.164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

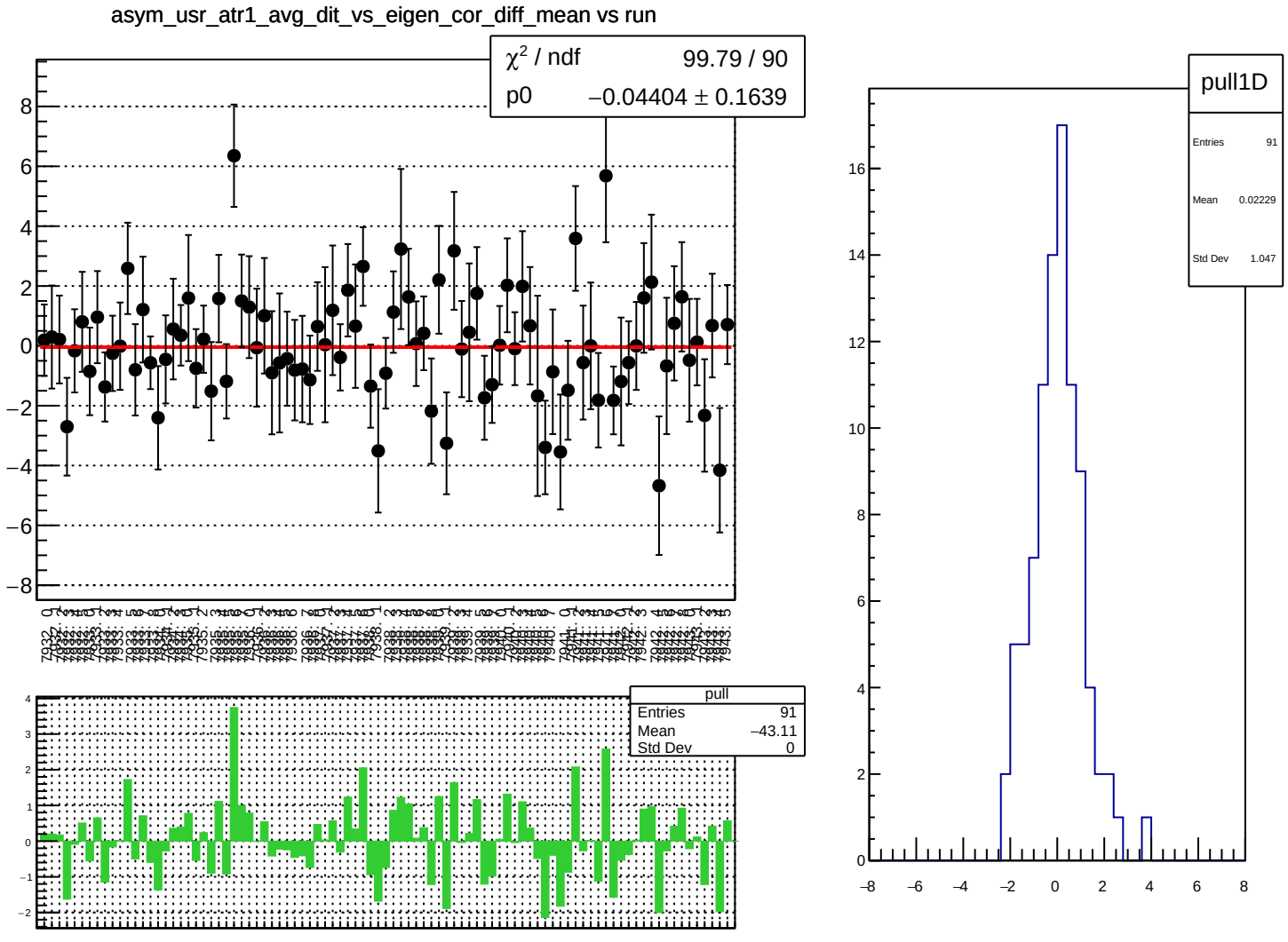

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 2528 / 90
p0 2777 ± 2.102
3200
3100
3000
2900
2800
2700
2600
2500

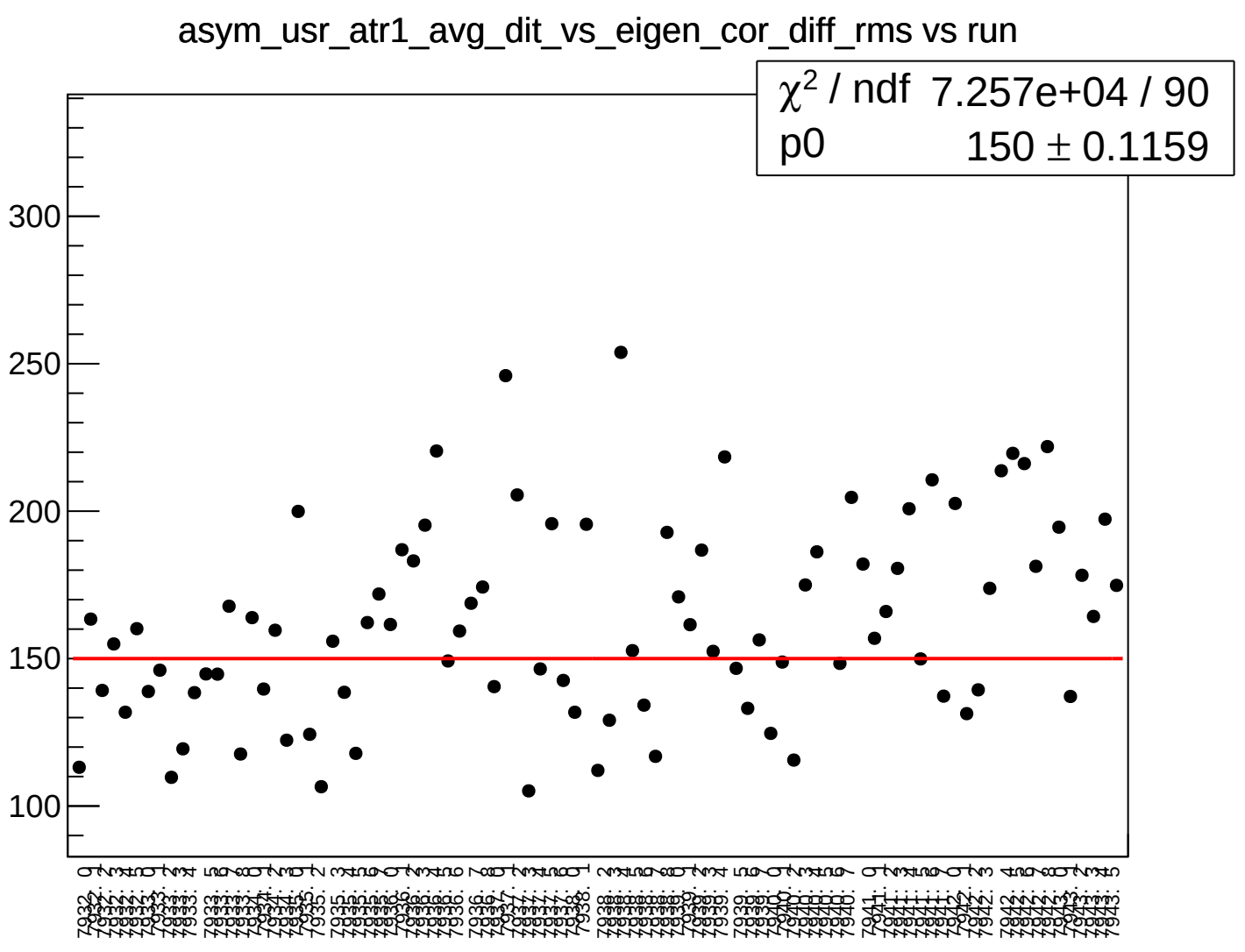

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 90
p0 2.012e−14 ± 3.276e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 48.55
Std Dev 33.15
pull1D
Entries 91
Mean 0.1533
Std Dev 1.073

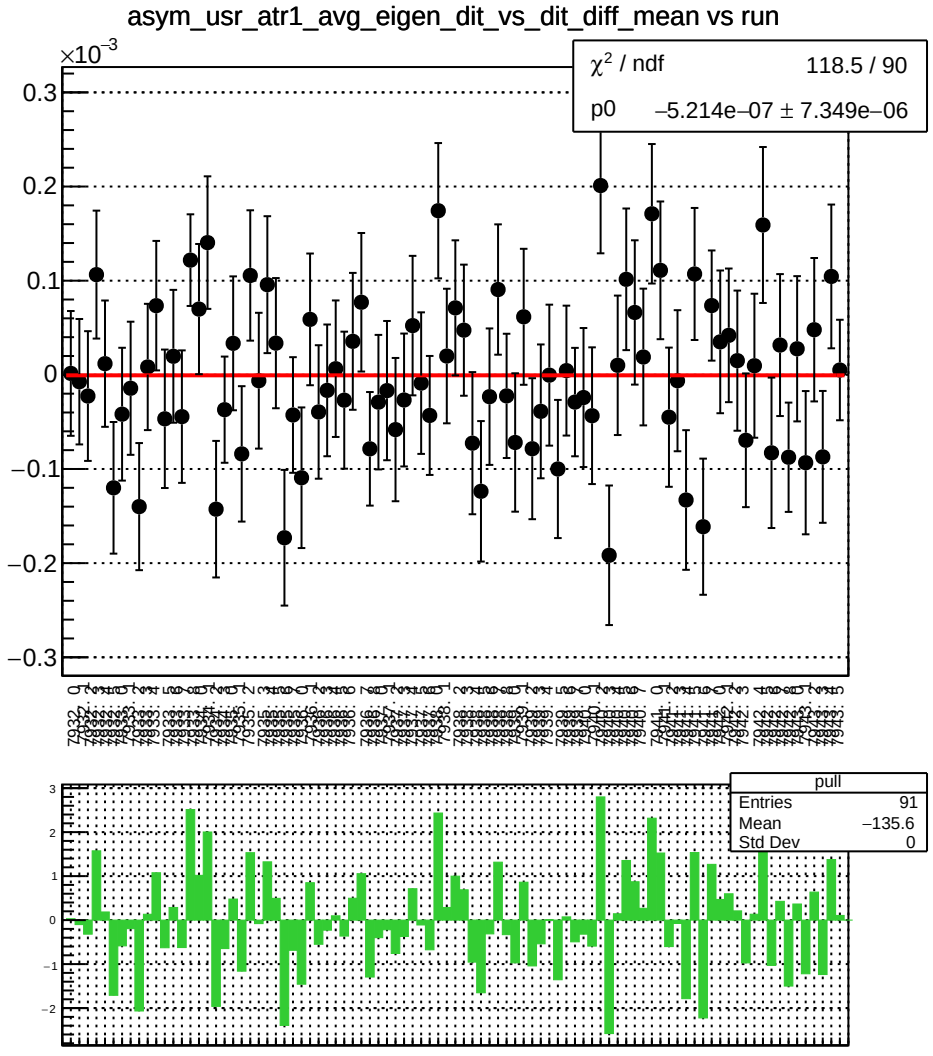

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 90
p0 1.95e−10 ± 2.316e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

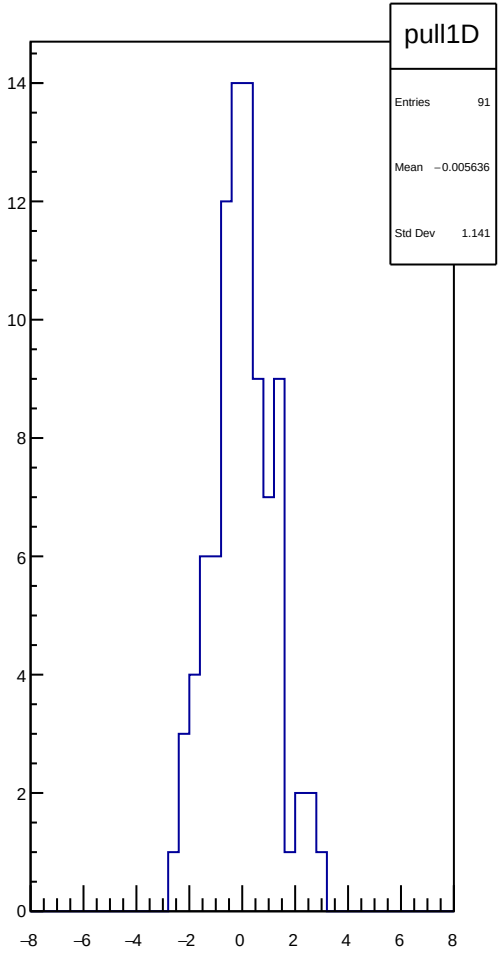

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.79 / 90
p0 −0.04404 ± 0.1639
pull
Entries 91
Mean −43.11
Std Dev 0
pull1D
Entries 91
Mean 0.02229
Std Dev 1.047

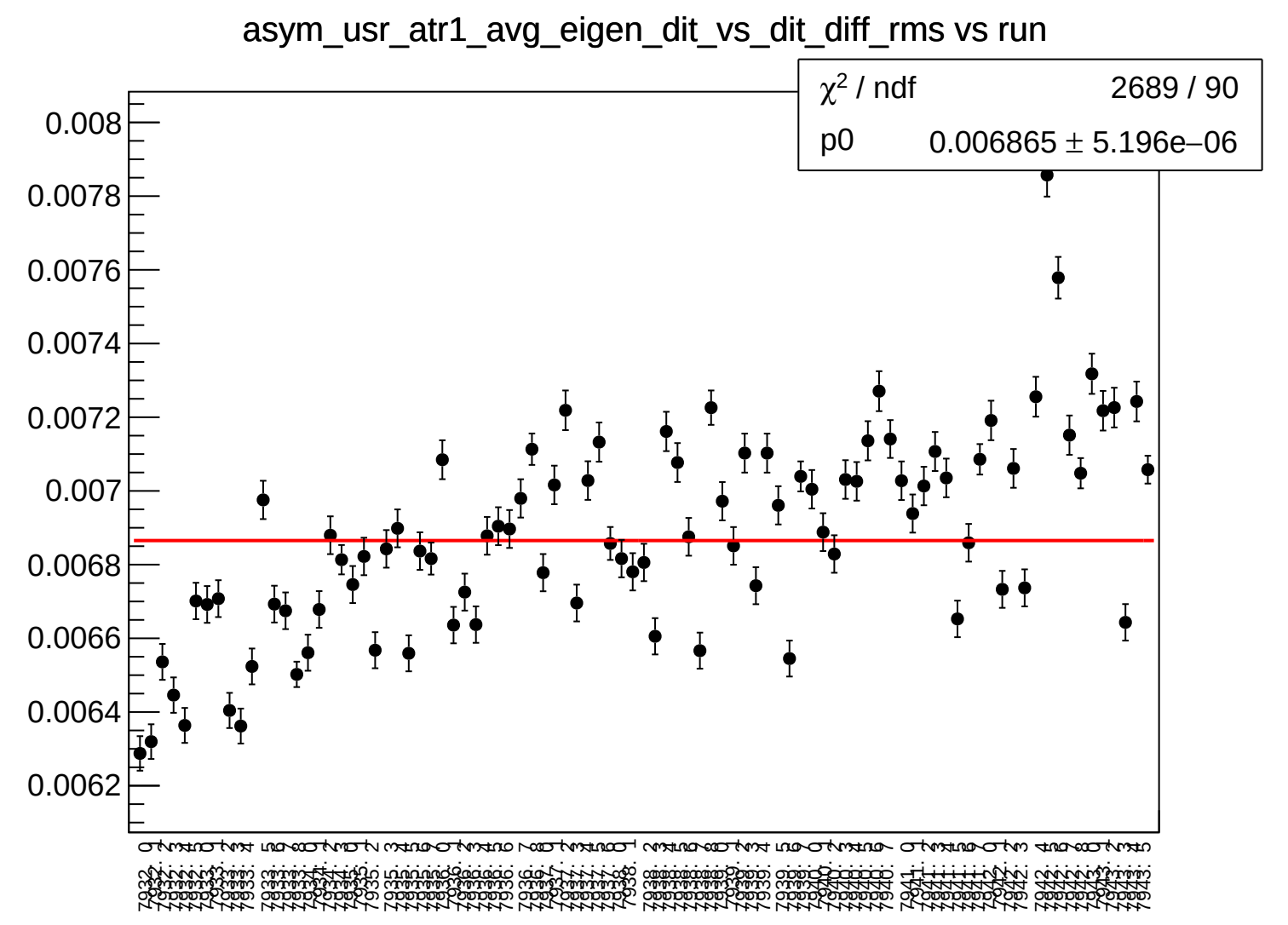

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.257e+04 / 90
p0 150 ± 0.1159
300
250
200
150
100

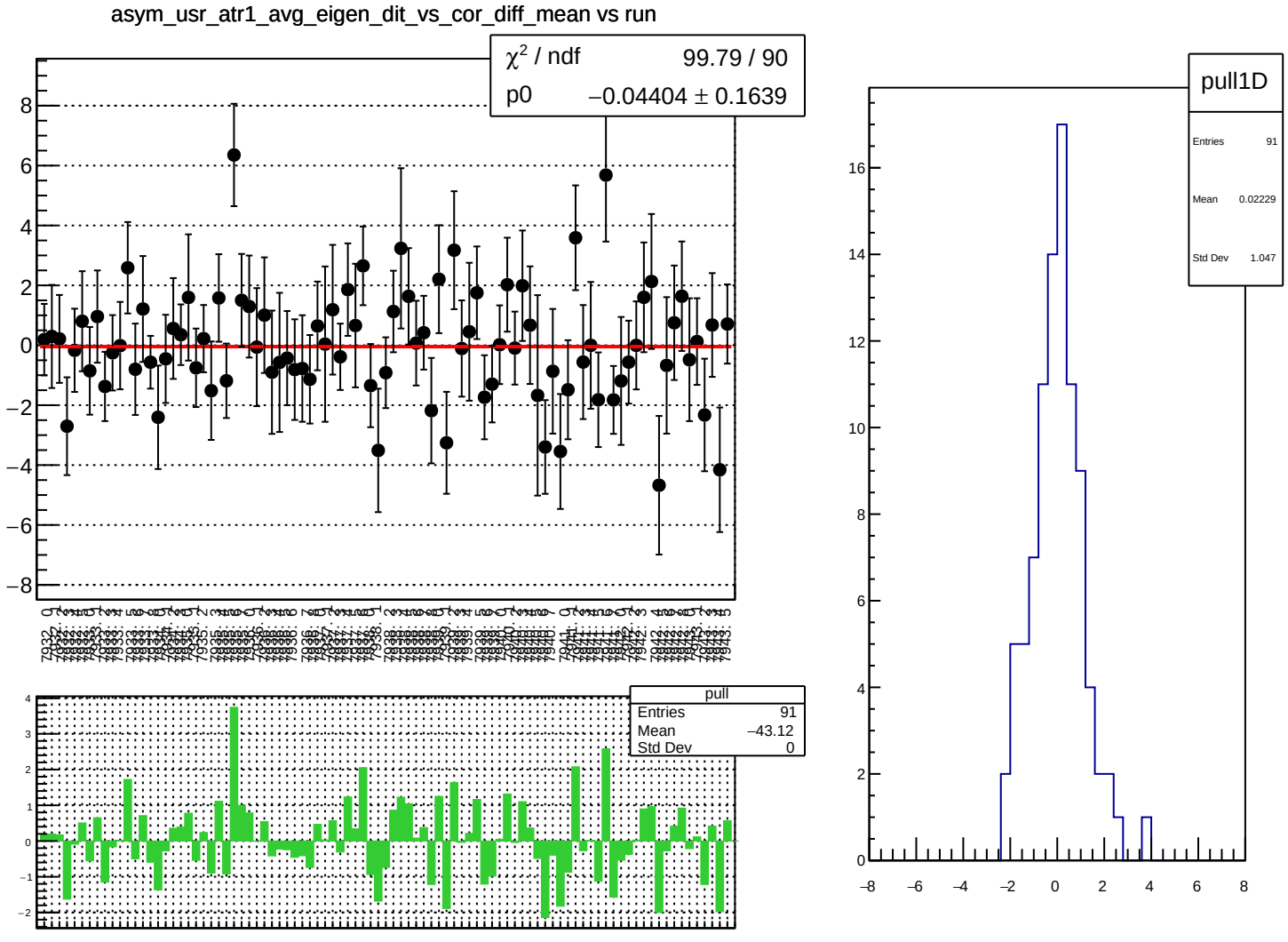

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.79 / 90
p0 −0.04404 ± 0.1639
pull
Entries 91
Mean −43.11
Std Dev 0
pull1D
Entries 91
Mean 0.02229
Std Dev 1.047

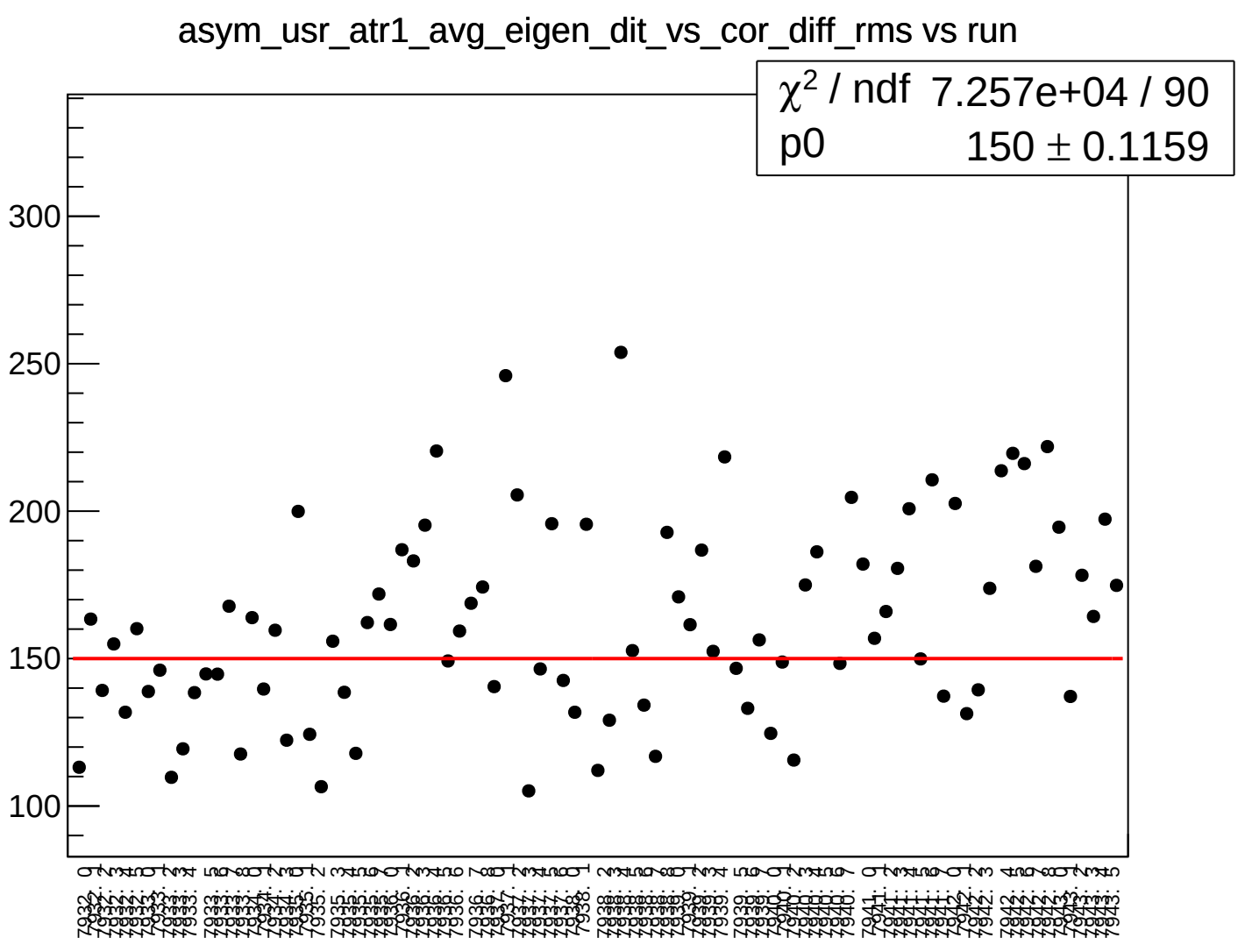

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.257e+04 / 90
p0 150 ± 0.1159
300
250
200
150
100

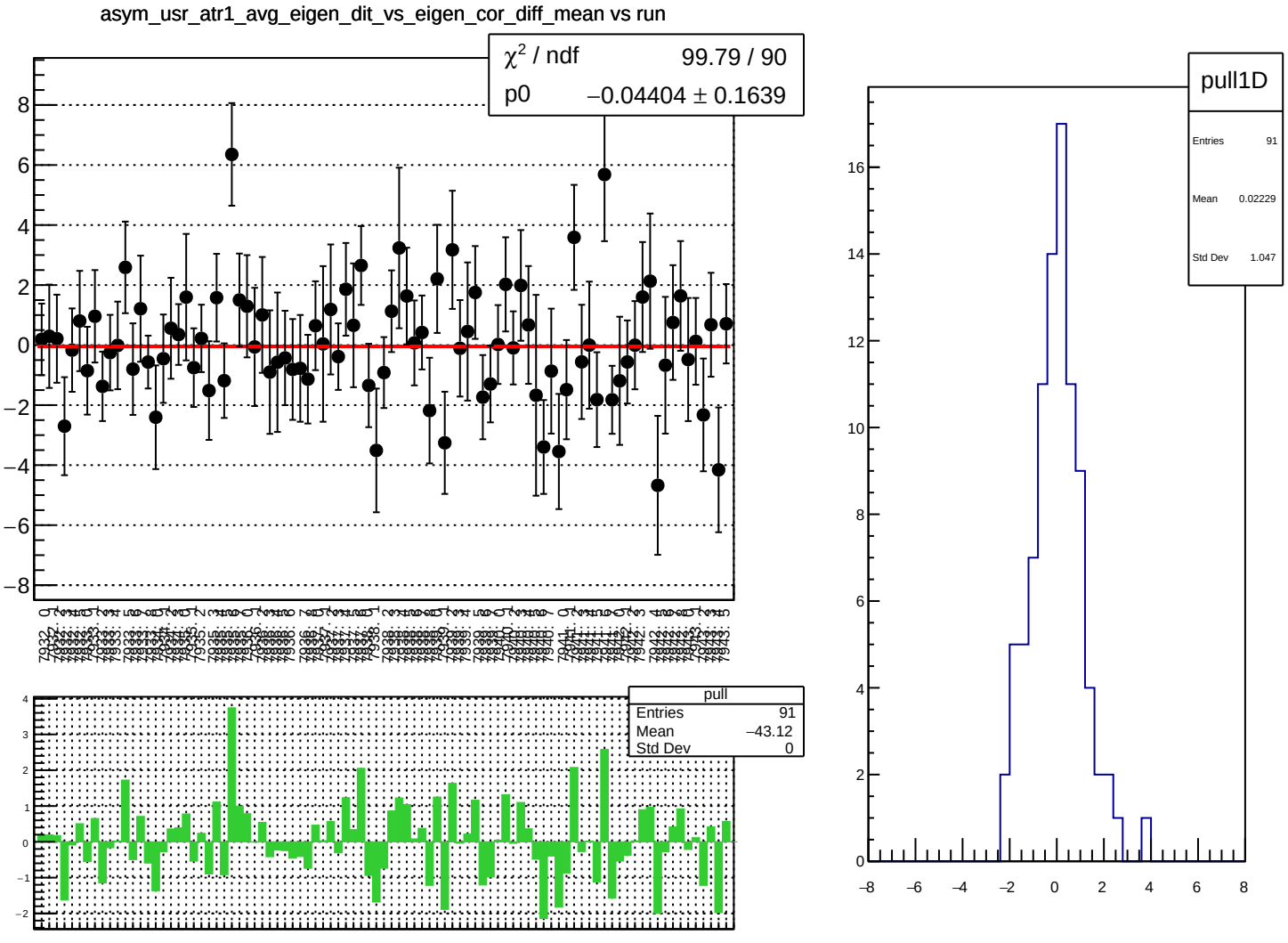

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.5 / 90
p0 −5.214e−07 ± 7.349e−06
pull
Entries 91
Mean −135.6
Std Dev 0

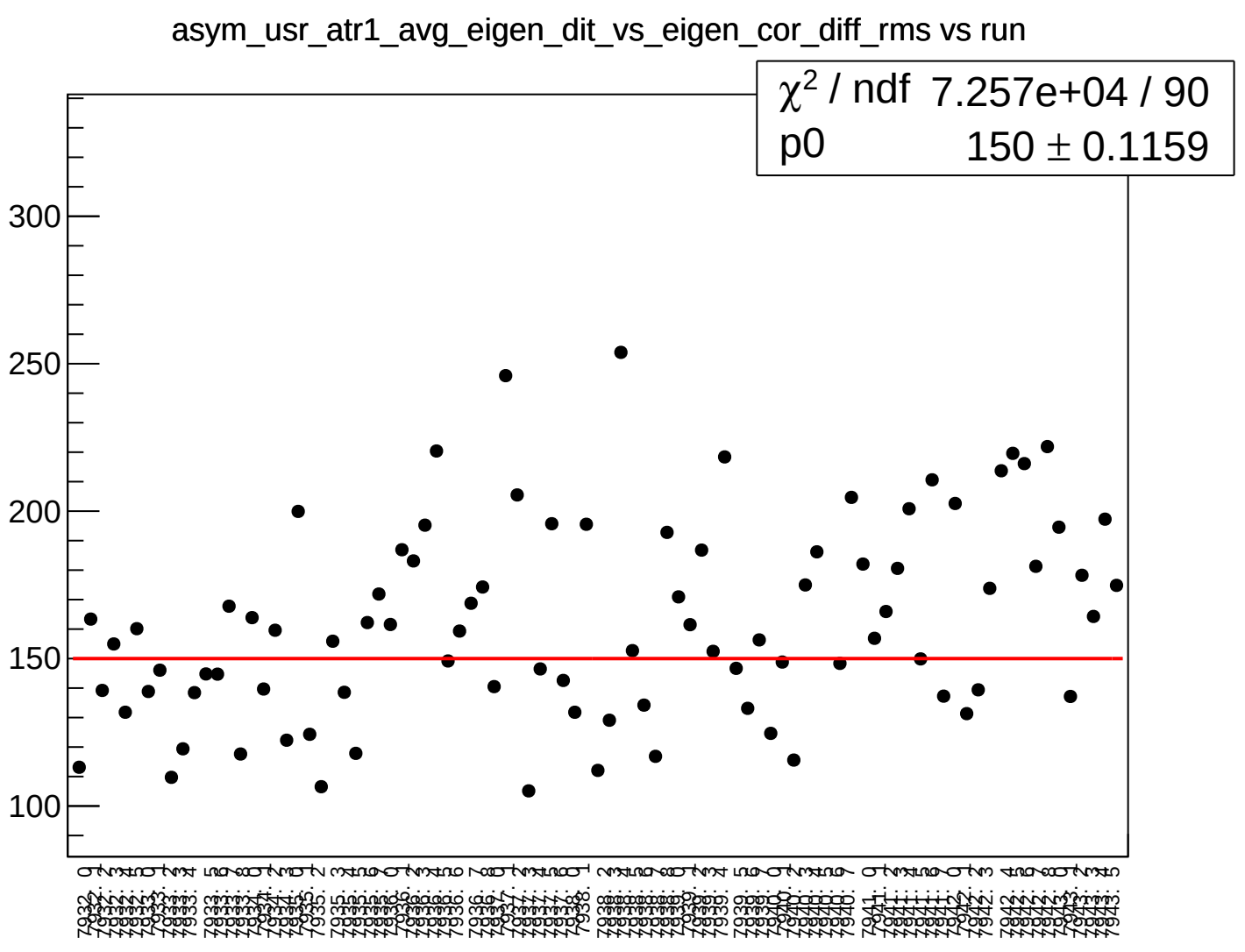

pull1D
Entries 91
Mean −0.005636
Std Dev 1.141

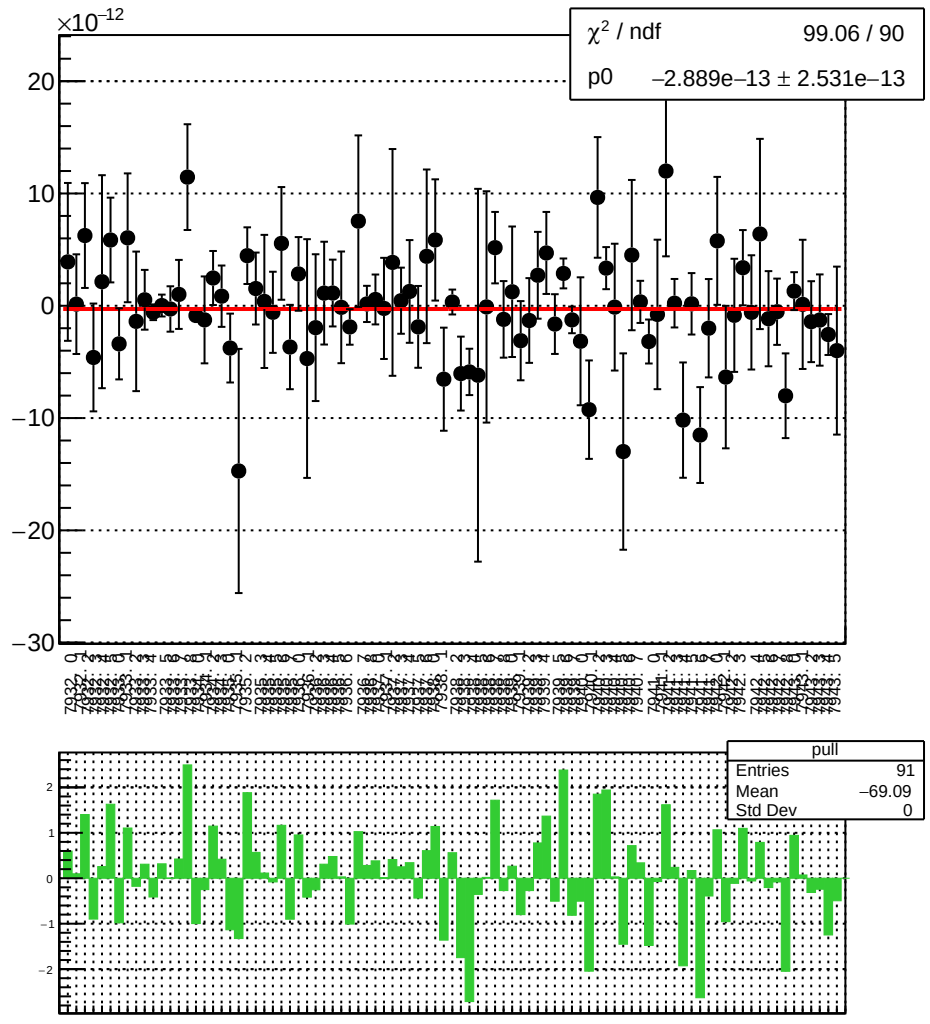

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2689 / 90
p0 0.006865 ± 5.196e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

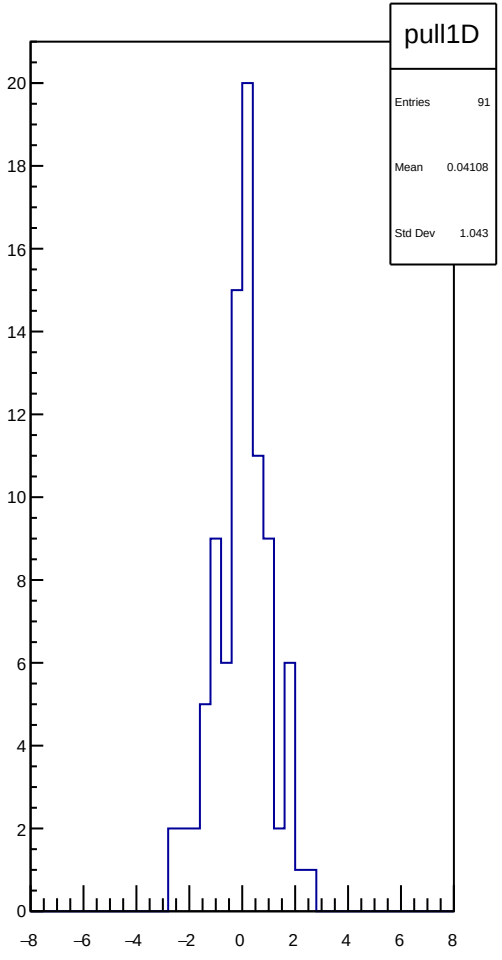

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.79 / 90
p0 −0.04404 ± 0.1639
pull
Entries 91
Mean −43.12
Std Dev 0
pull1D
Entries 91
Mean 0.02229
Std Dev 1.047

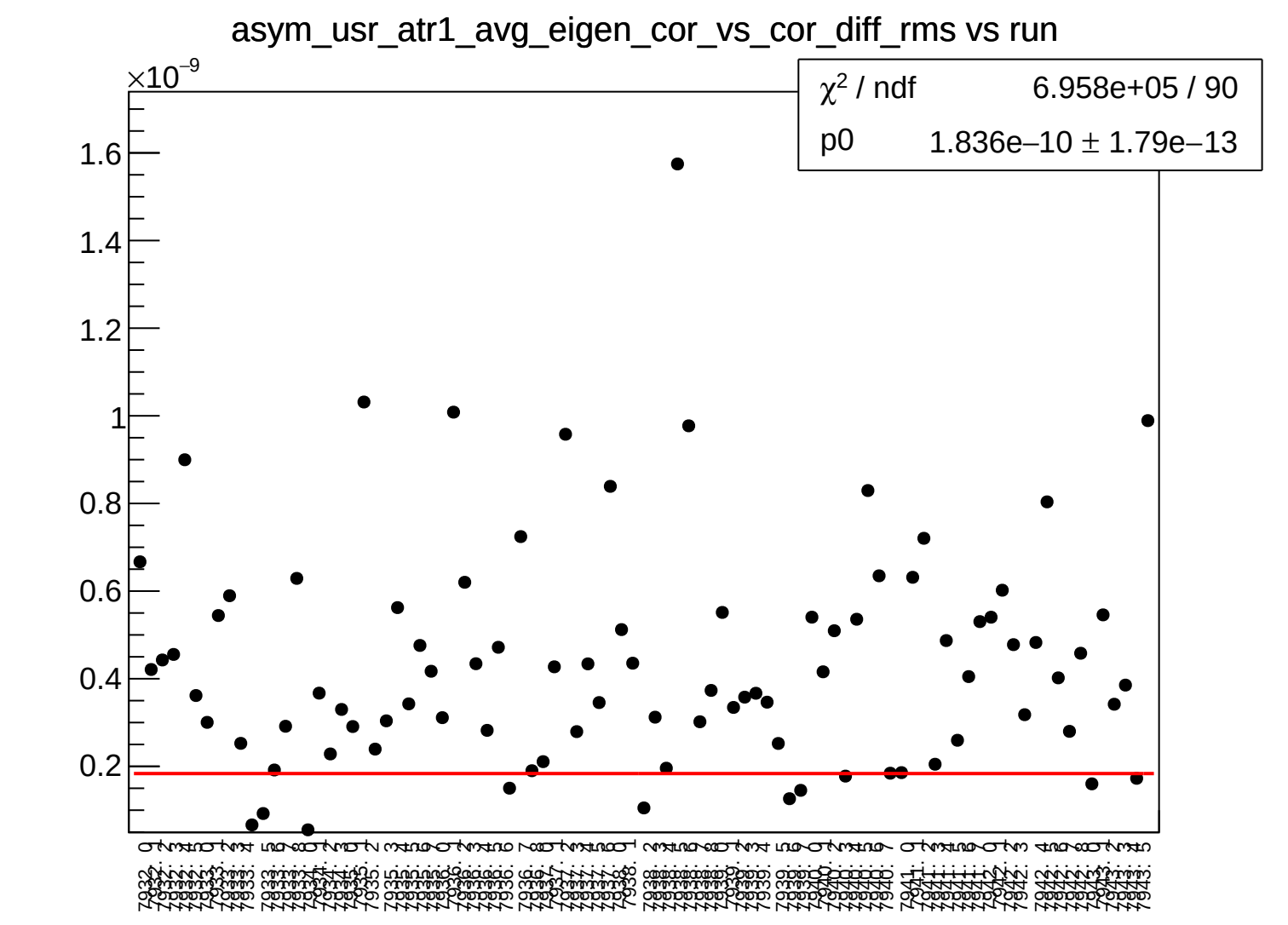

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.257e+04 / 90
p0 150 ± 0.1159
300
250
200
150
100

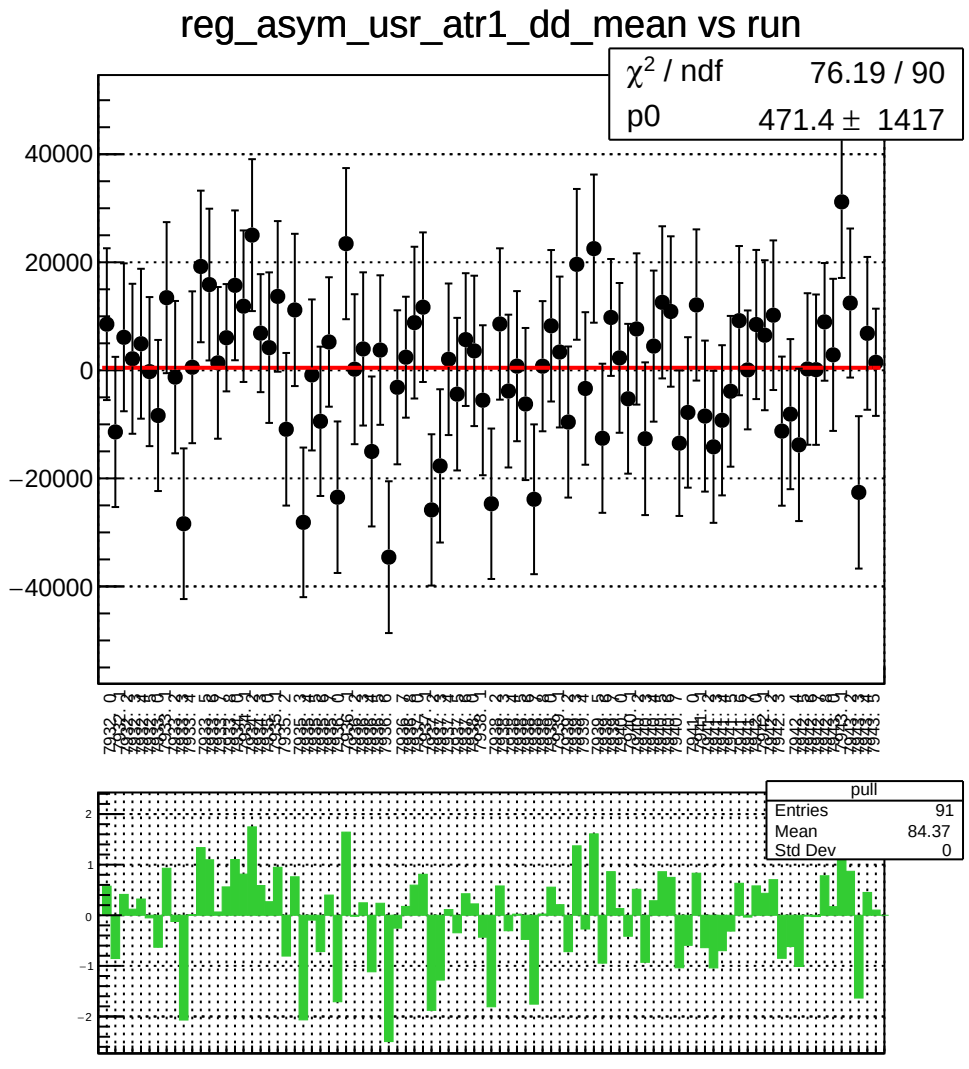

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.79 / 90
p0 −0.04404 ± 0.1639
pull
Entries 91
Mean −43.12
Std Dev 0
pull1D
Entries 91
Mean 0.02229
Std Dev 1.047

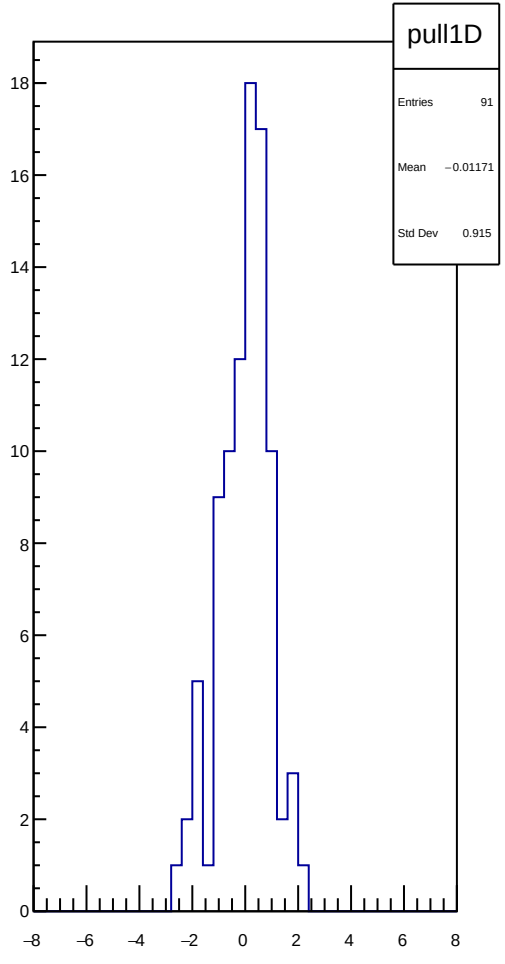

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.257e+04 / 90
p0 150 ± 0.1159
300
250
200
150
100

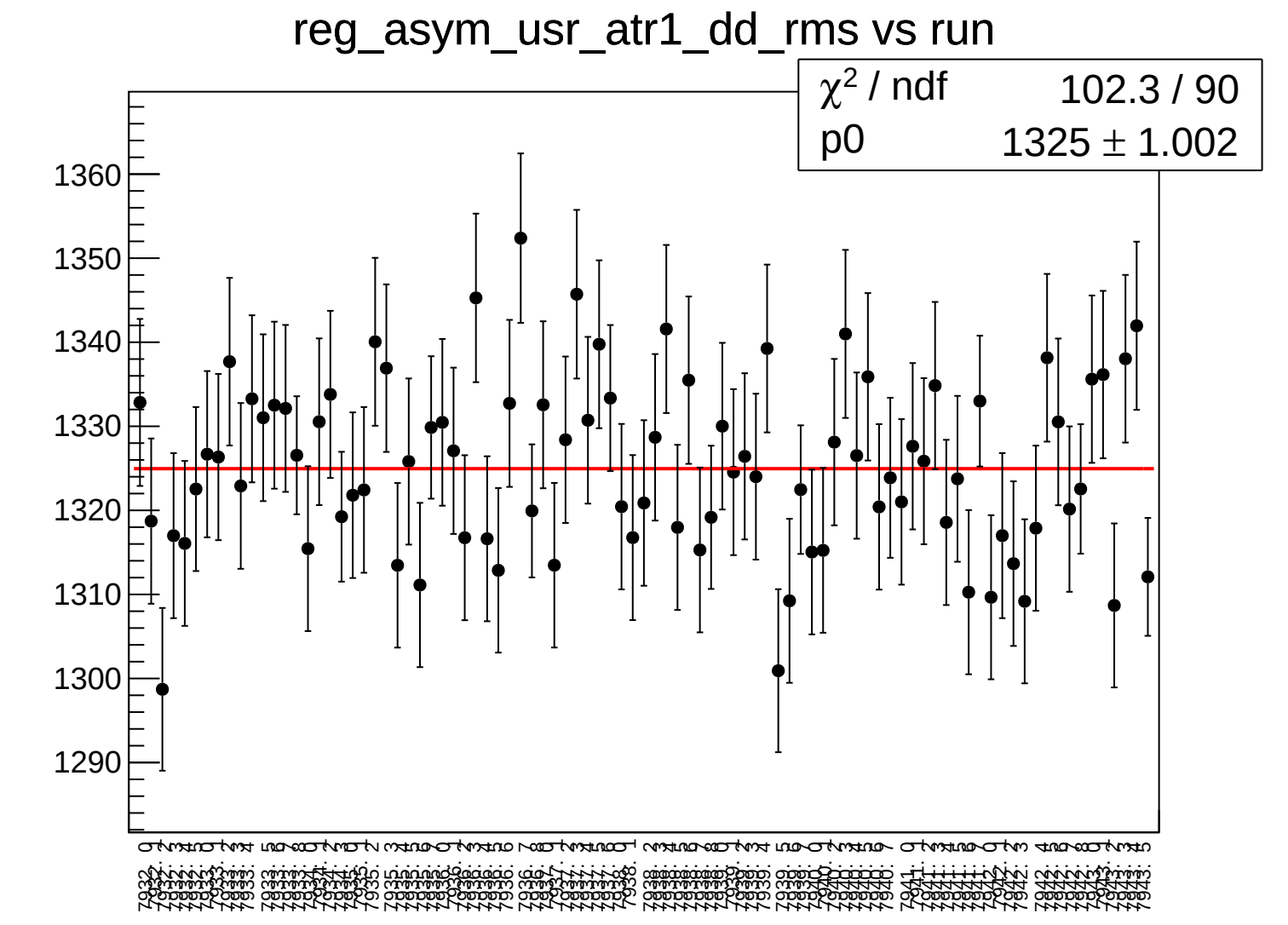

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.06 / 90
p0 −2.889e−13 ± 2.531e−13
pull
Entries 91
Mean −69.09
Std Dev 0

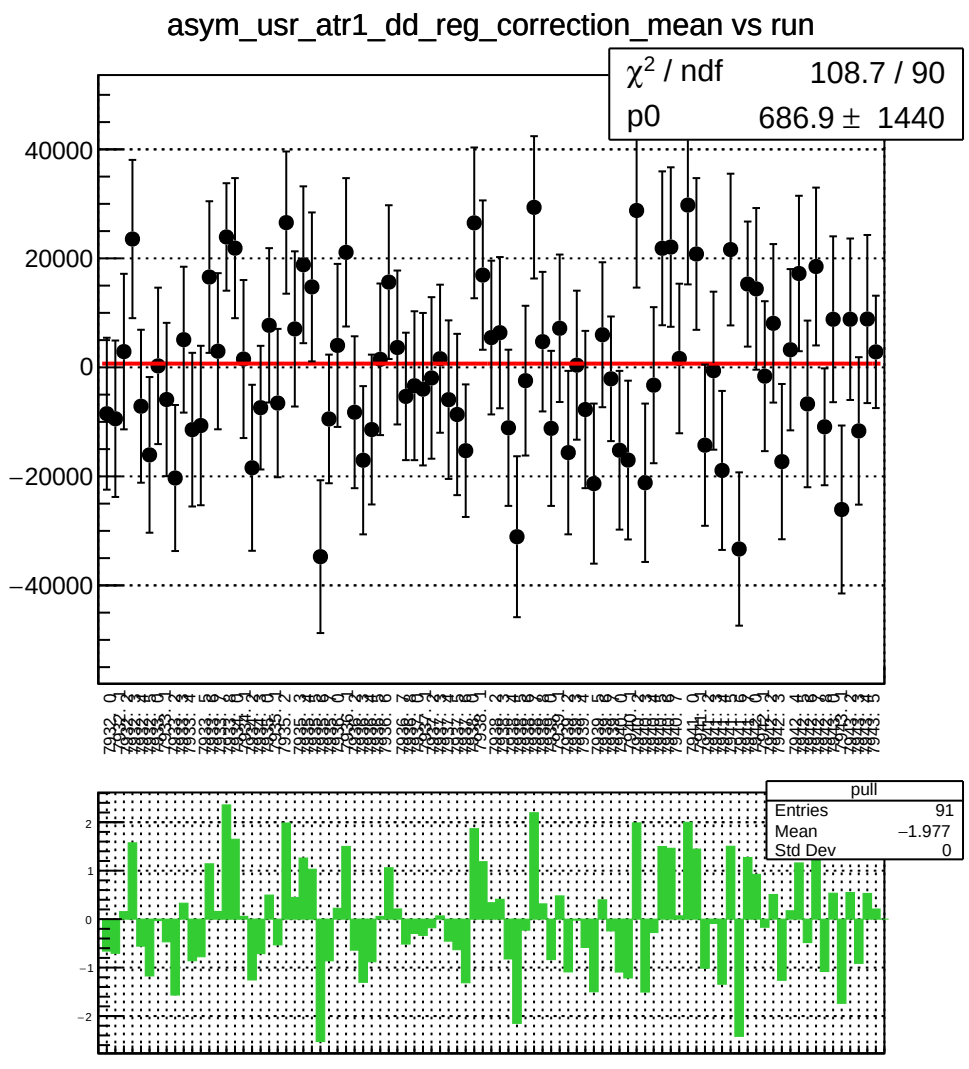

pull1D
Entries 91
Mean 0.04108
Std Dev 1.043

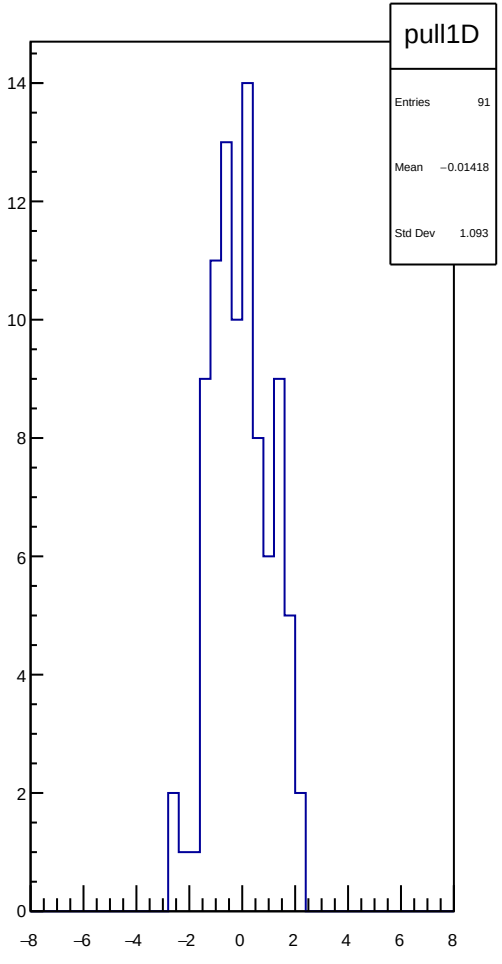

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.958e+05 / 90
p0 1.836e−10 ± 1.79e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

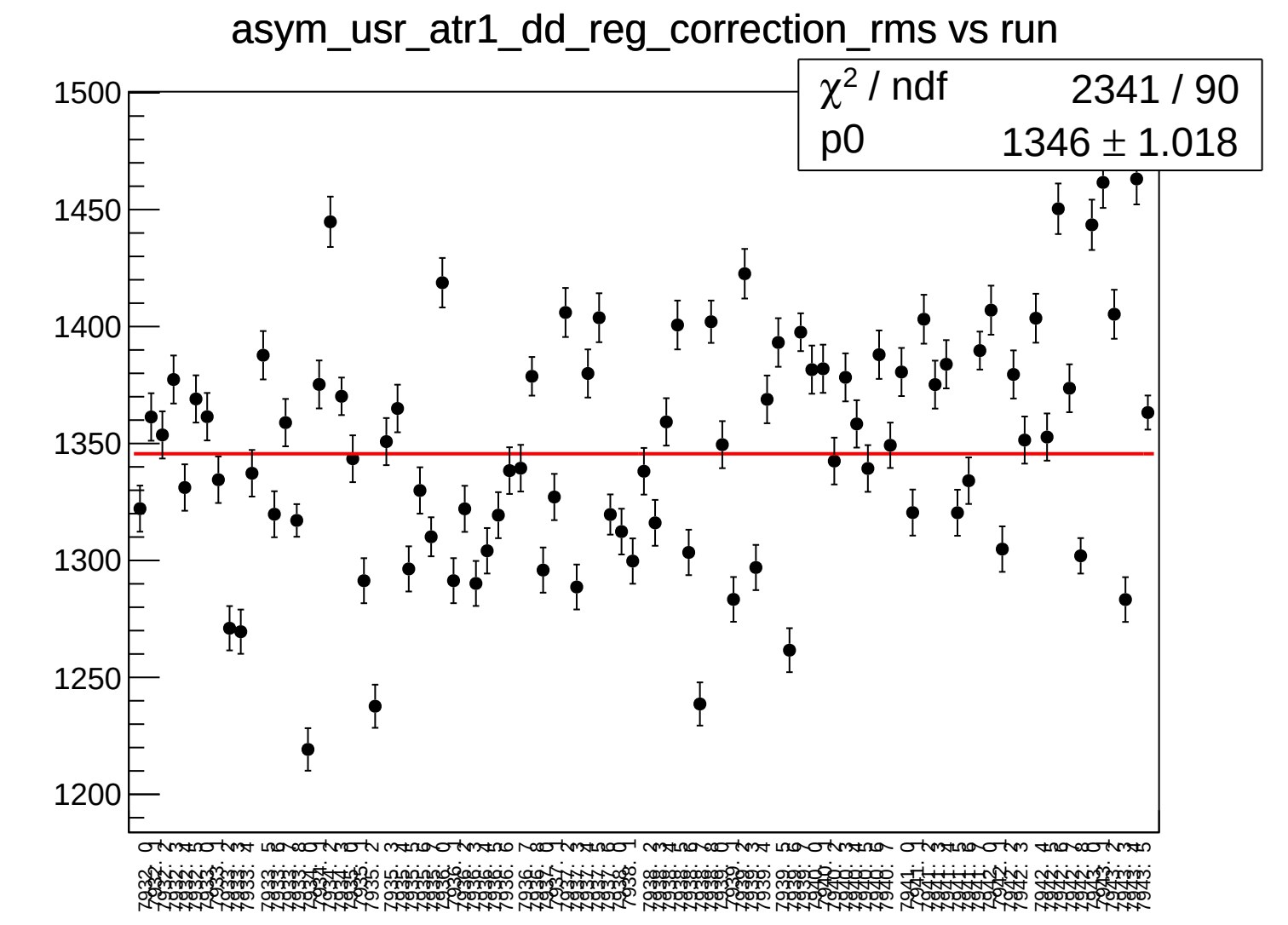

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 76.19 / 90
p0 471.4 ± 1417
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 84.37
Std Dev 0
2
1
0
−1
−2

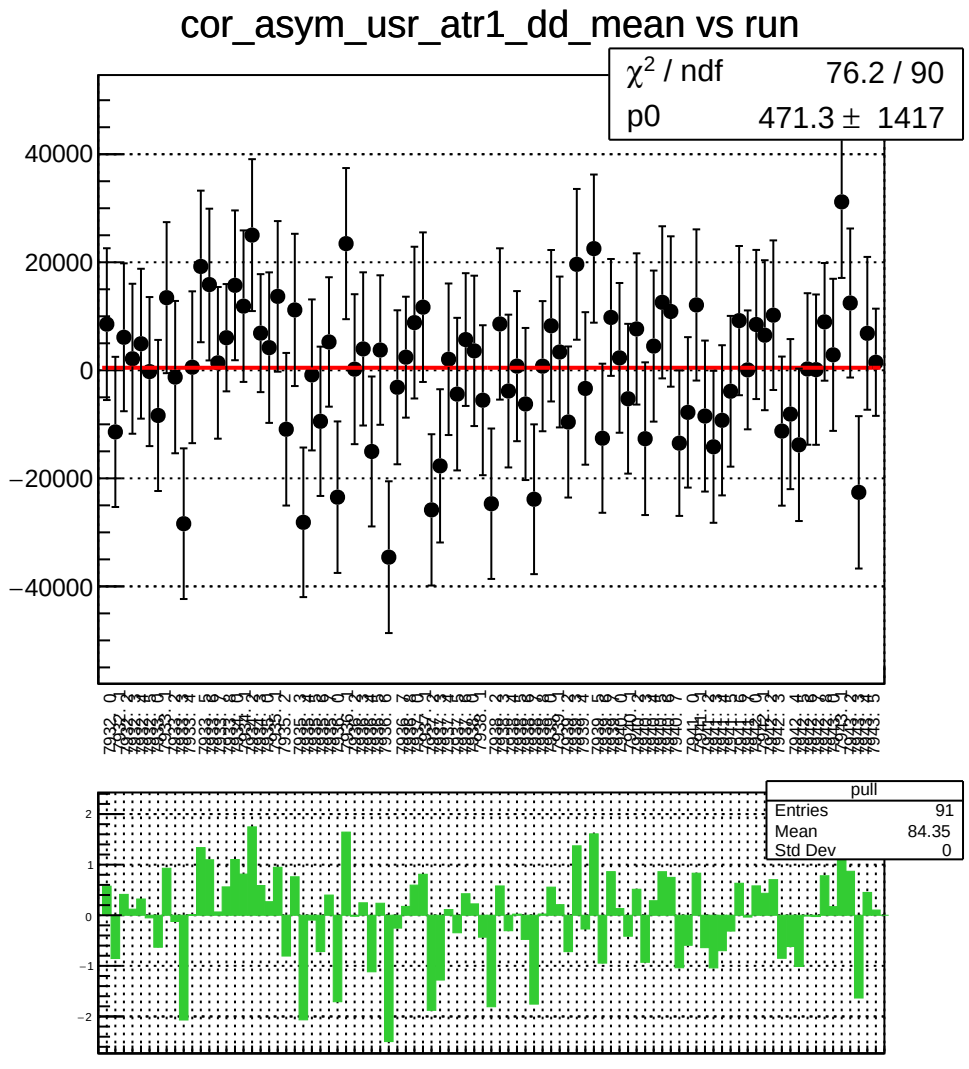

pull1D
Entries 91
Mean −0.01171
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

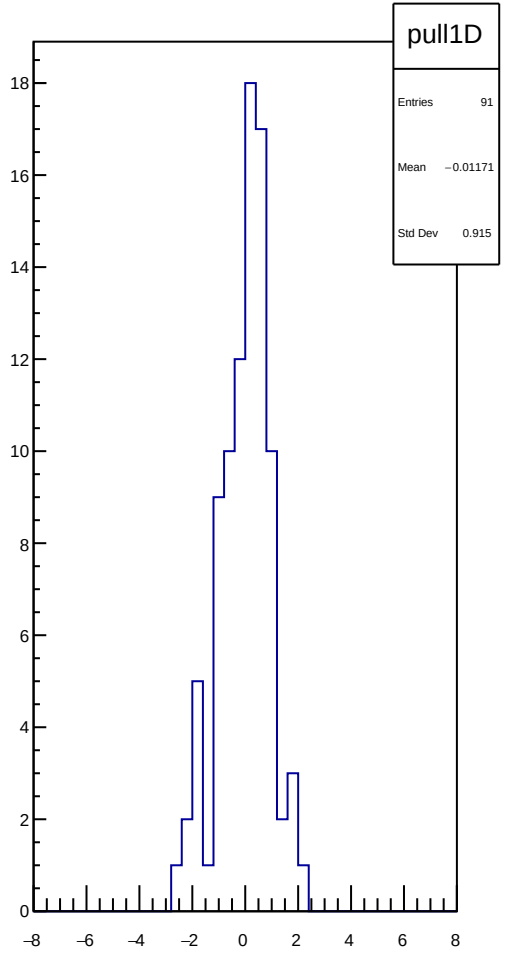

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 102.3 / 90
p0 1325 ± 1.002
1360
1350
1340
1330
1320
1310
1300
1290

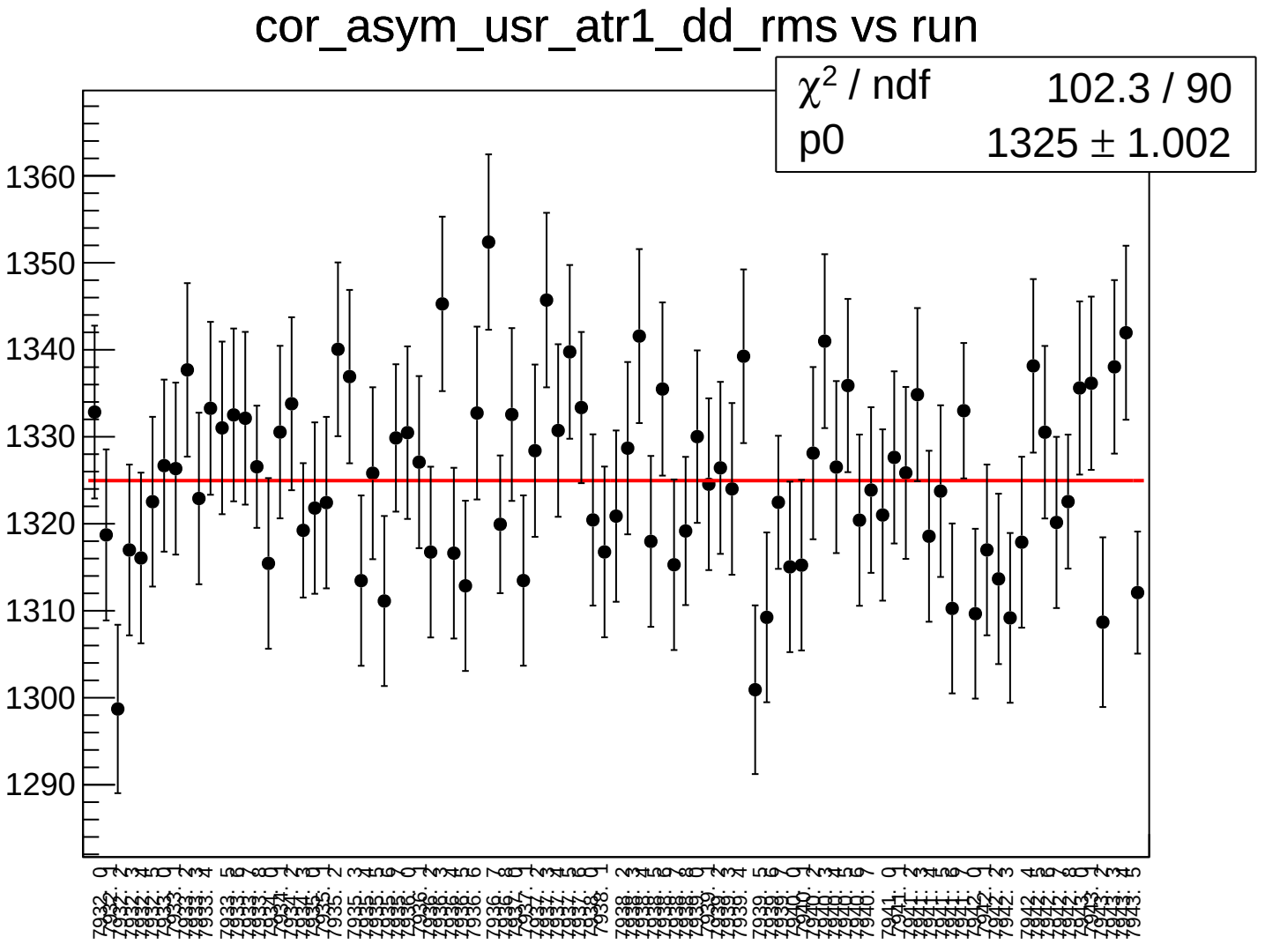

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 108.7 / 90
p0 686.9 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −1.977
Std Dev 0
2
1
0
−1
−2

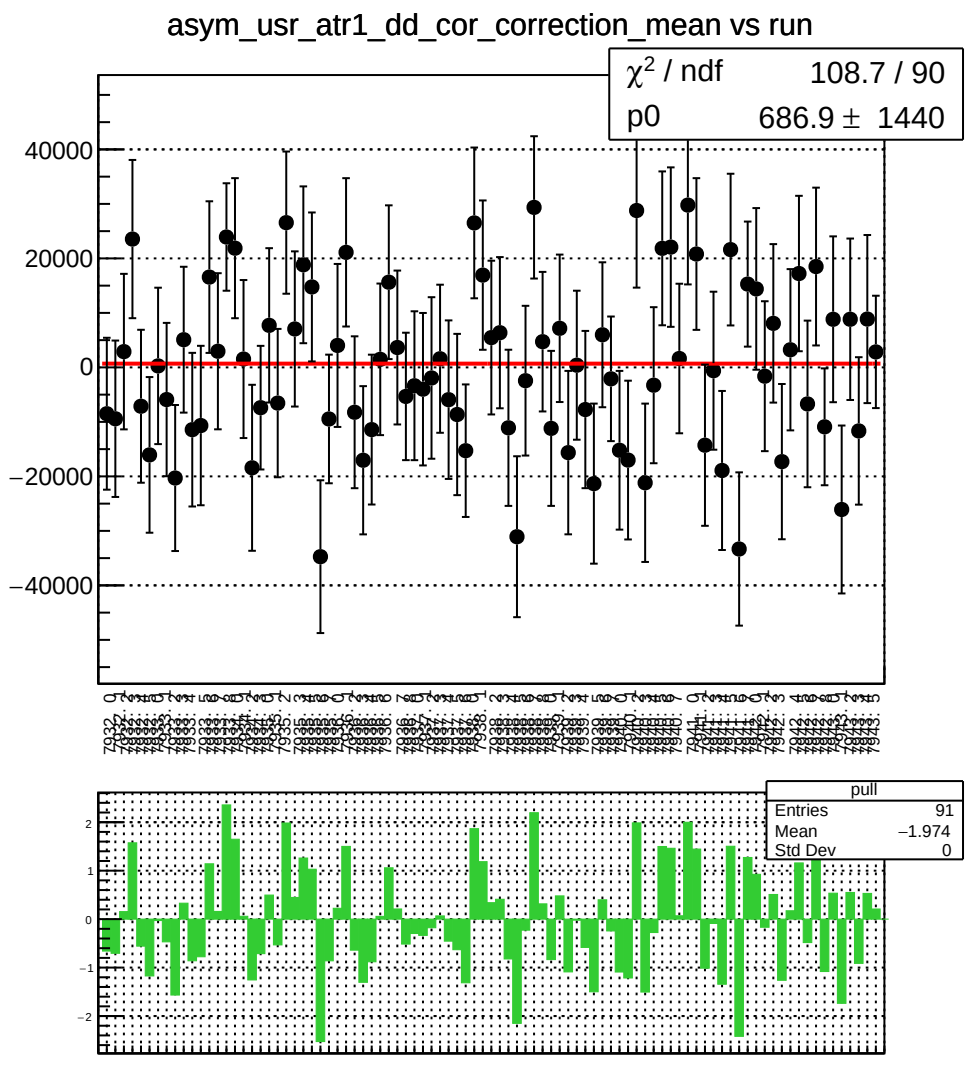

pull1D
Entries 91
Mean −0.01418
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

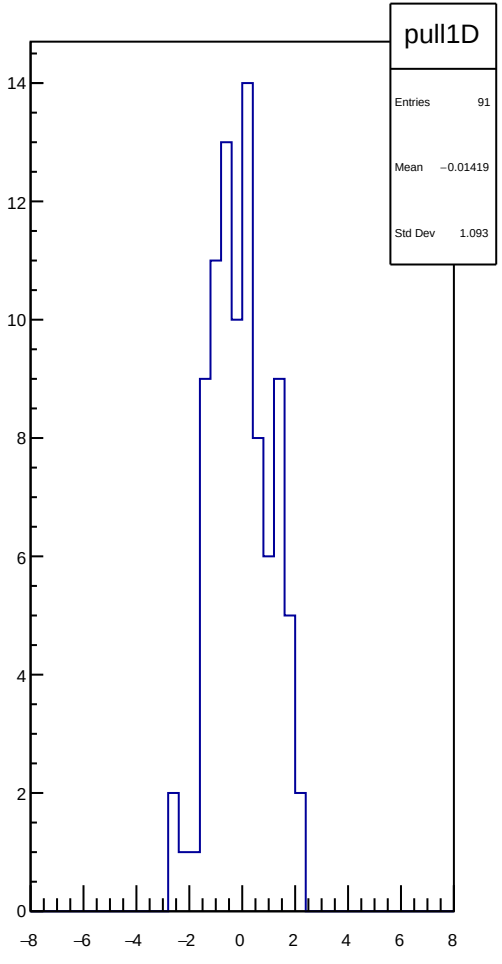

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2341 / 90
p0 1346 ± 1.018
1500
1450
1400
1350
1300
1250
1200

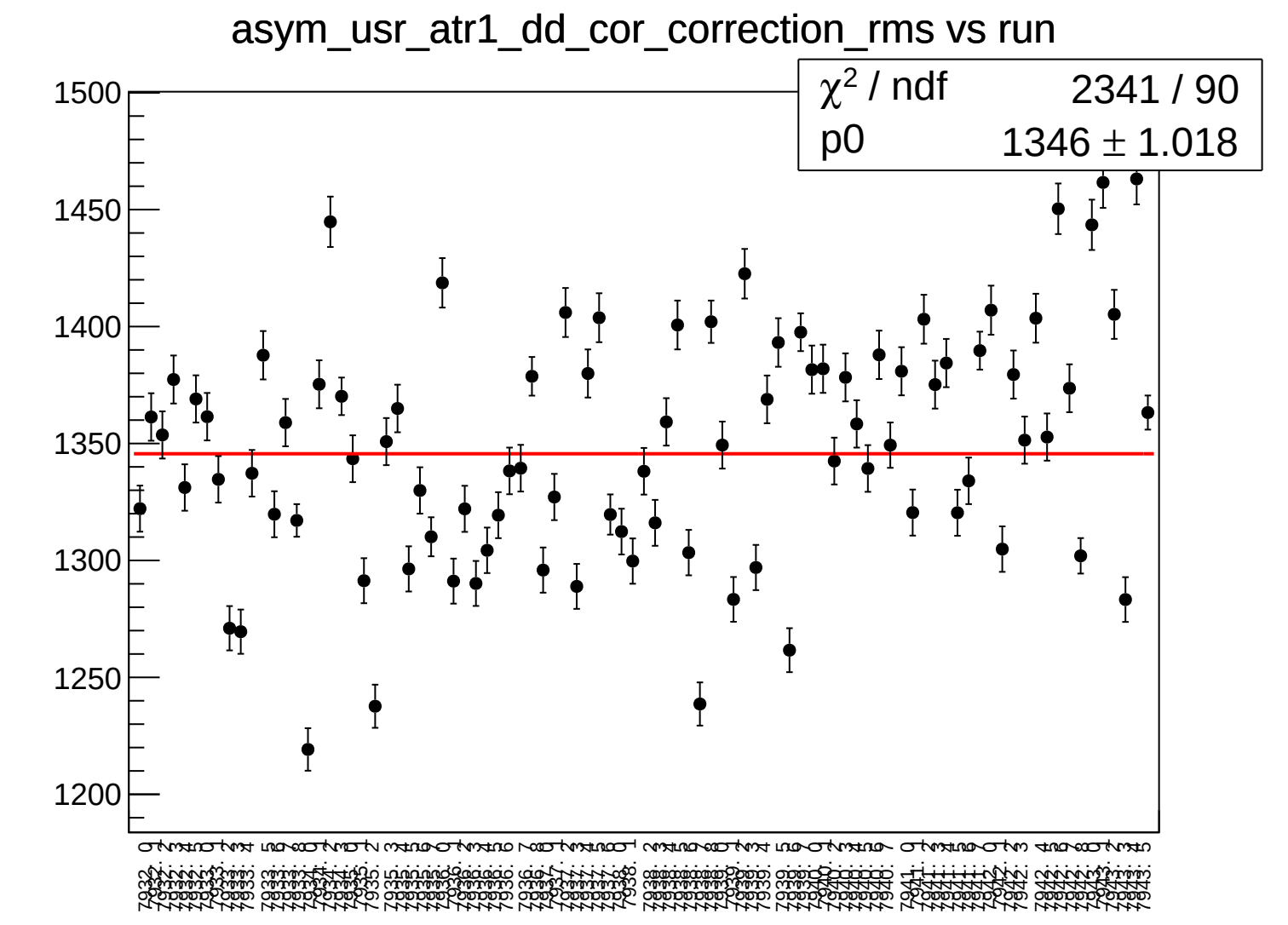

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 76.2 / 90
p0 471.3 ± 1417
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 84.35
Std Dev 0
2
1
0
−1
−2

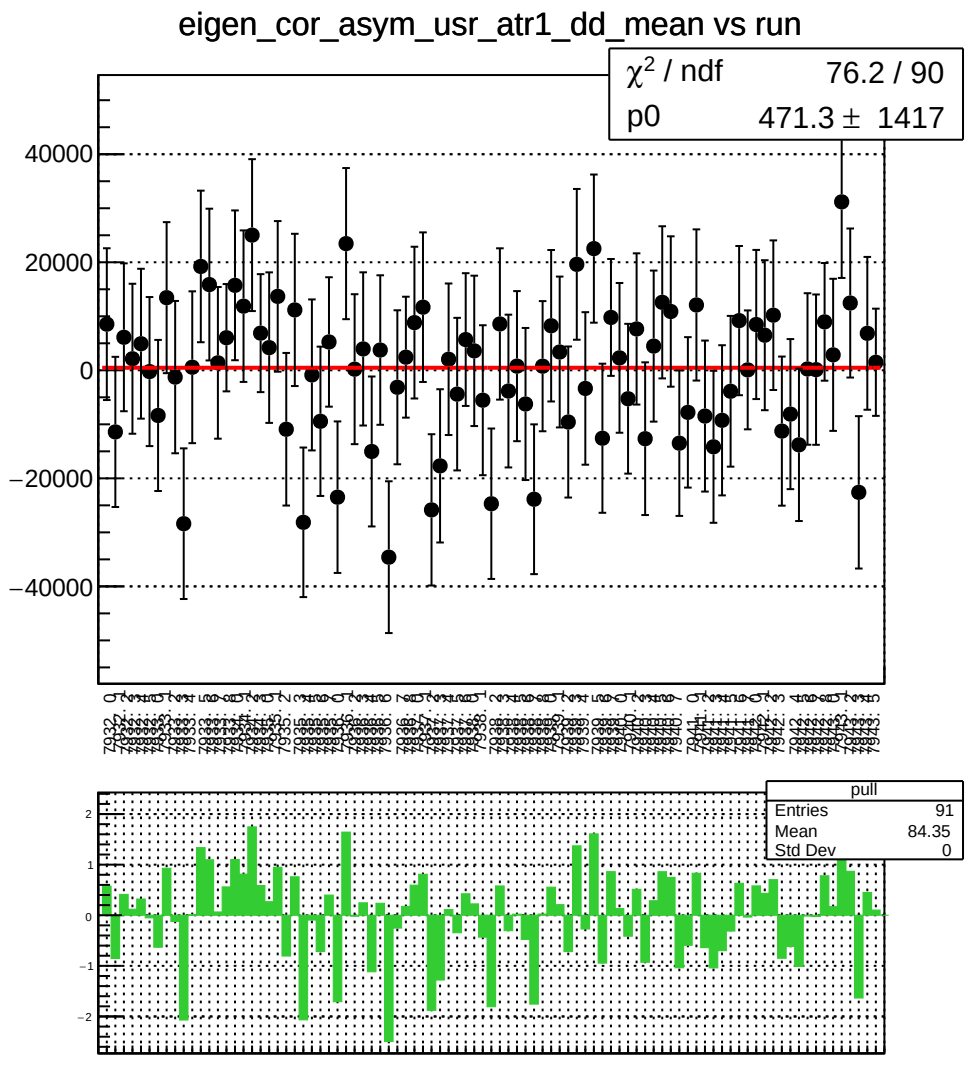

pull1D
Entries 91
Mean −0.01171
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

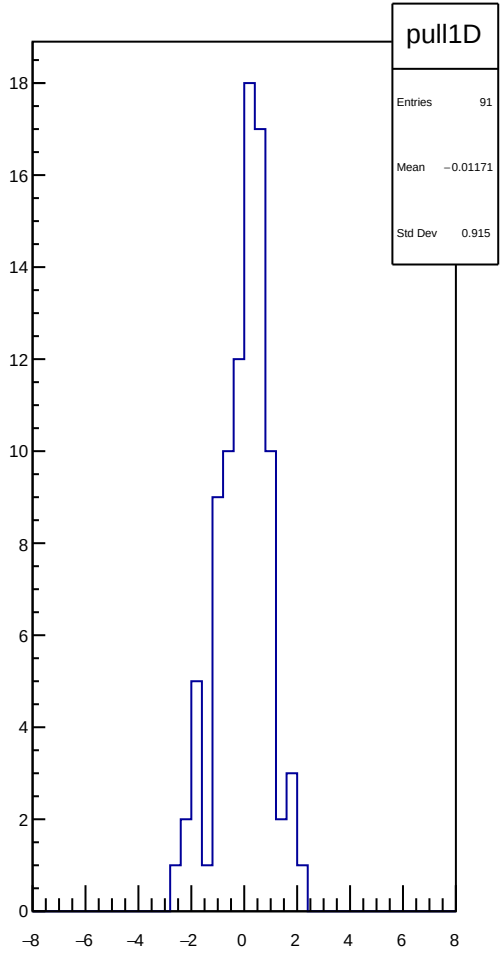

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 102.3 / 90
p0 1325 ± 1.002
1360
1350
1340
1330
1320
1310
1300
1290

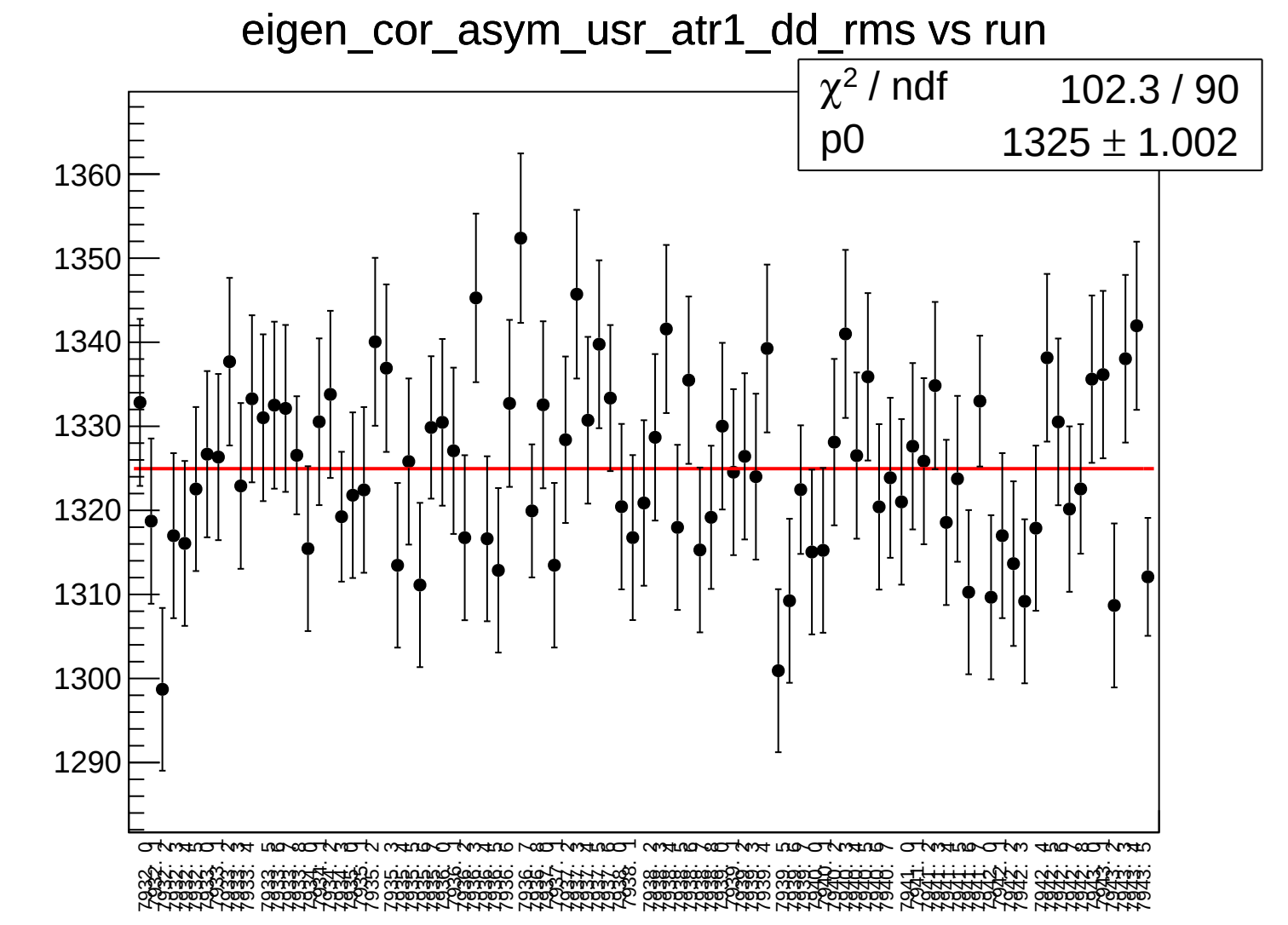

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 108.7 / 90
p0 686.9 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −1.974
Std Dev 0
2
1
0
−1
−2

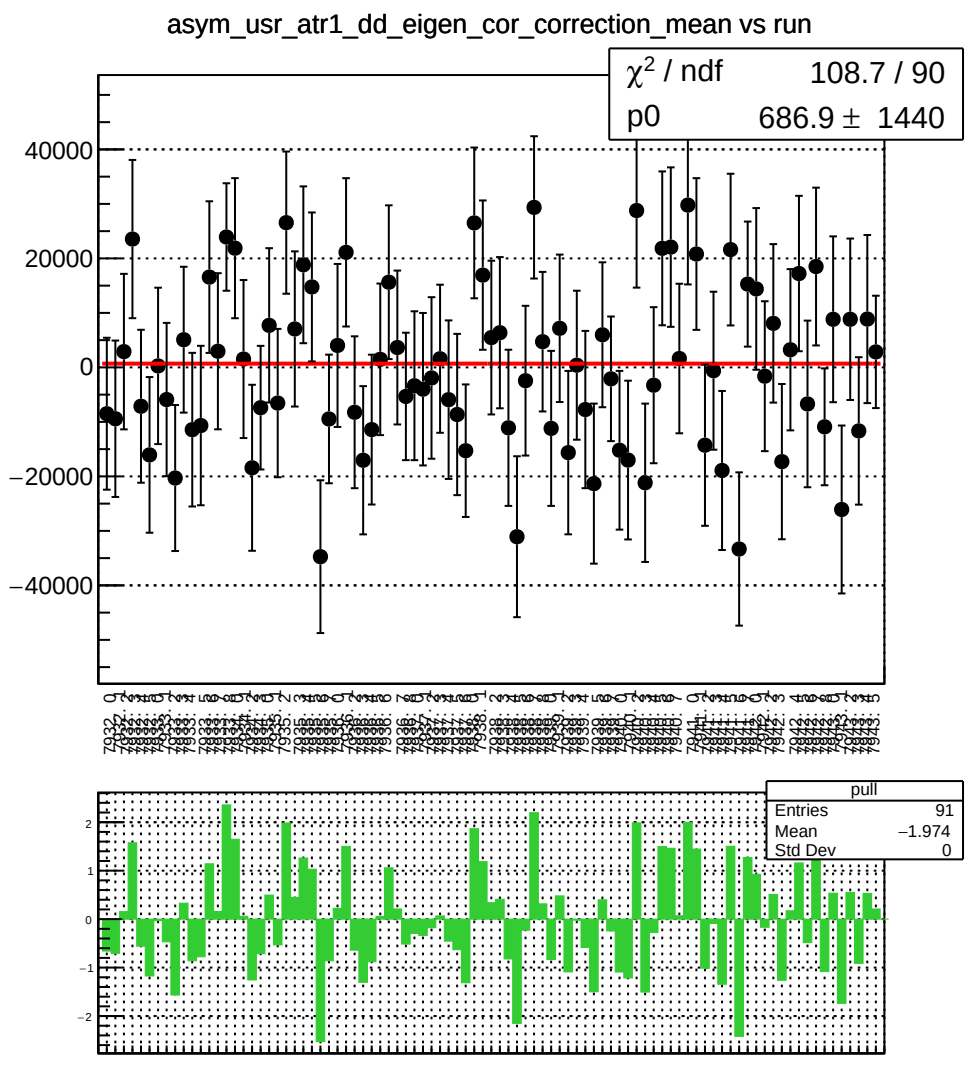

pull1D
Entries 91
Mean −0.01419
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

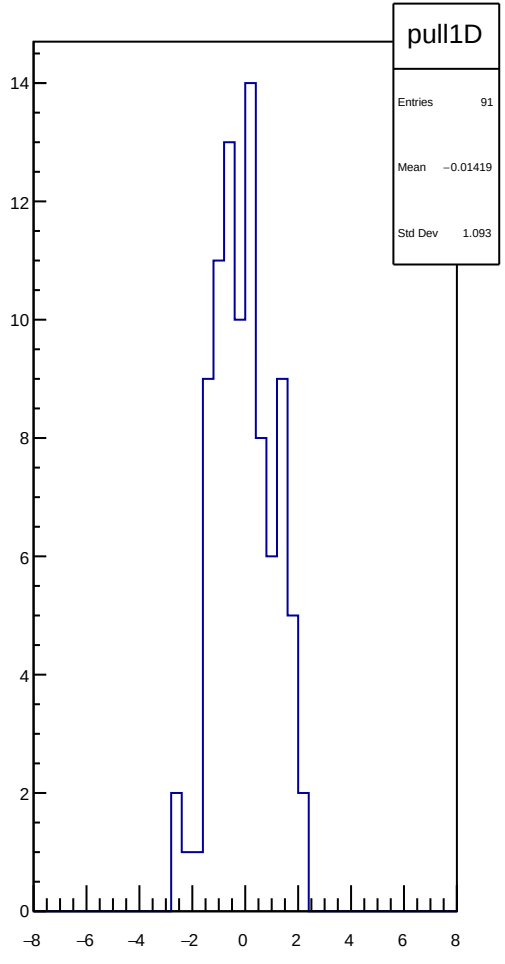

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2341 / 90
p0 1346 ± 1.018
1500
1450
1400
1350
1300
1250
1200

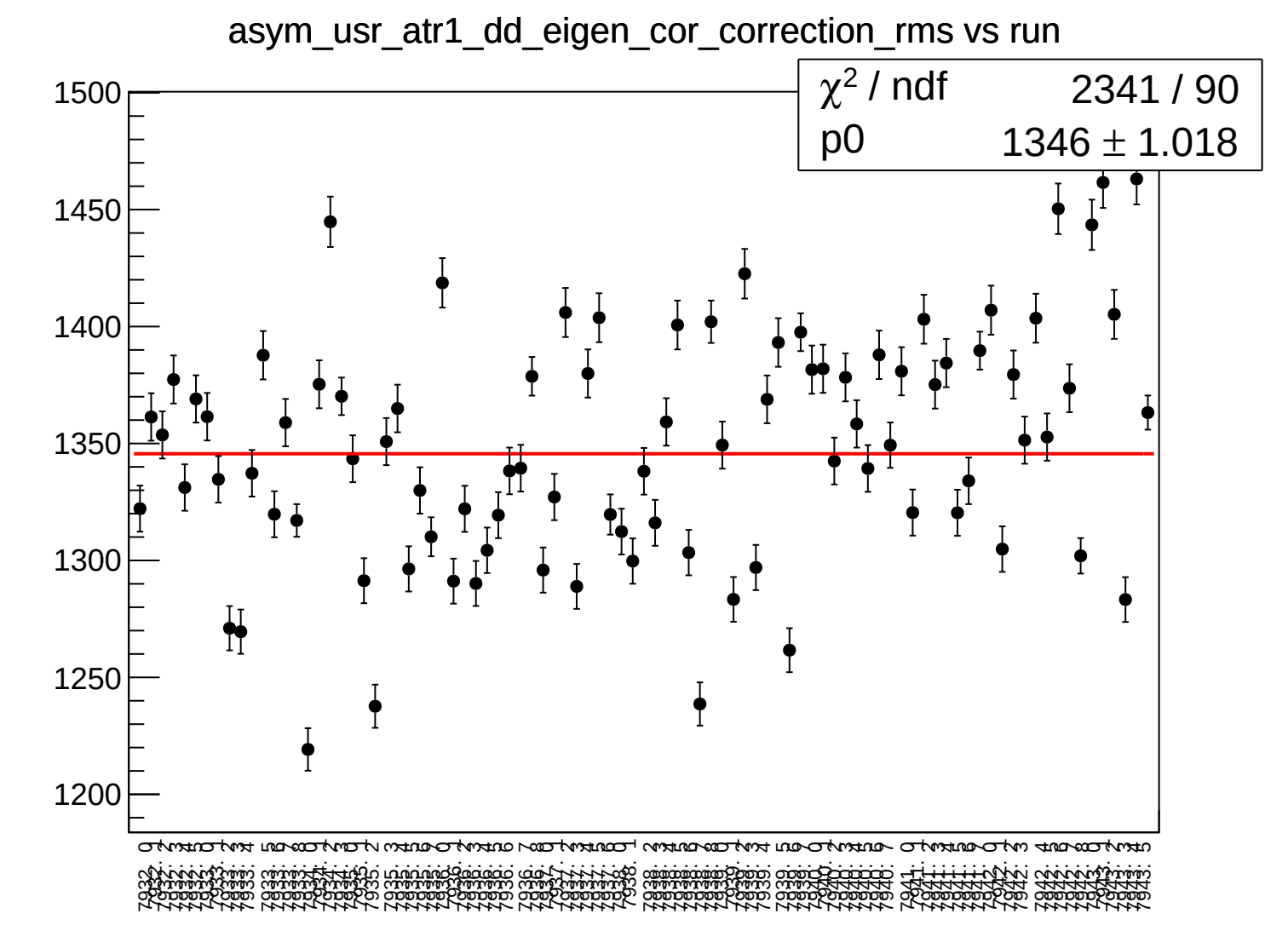

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 76.2 / 90
p0 471.3 ± 1417
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 84.35
Std Dev 0
2
1
0
−1
−2

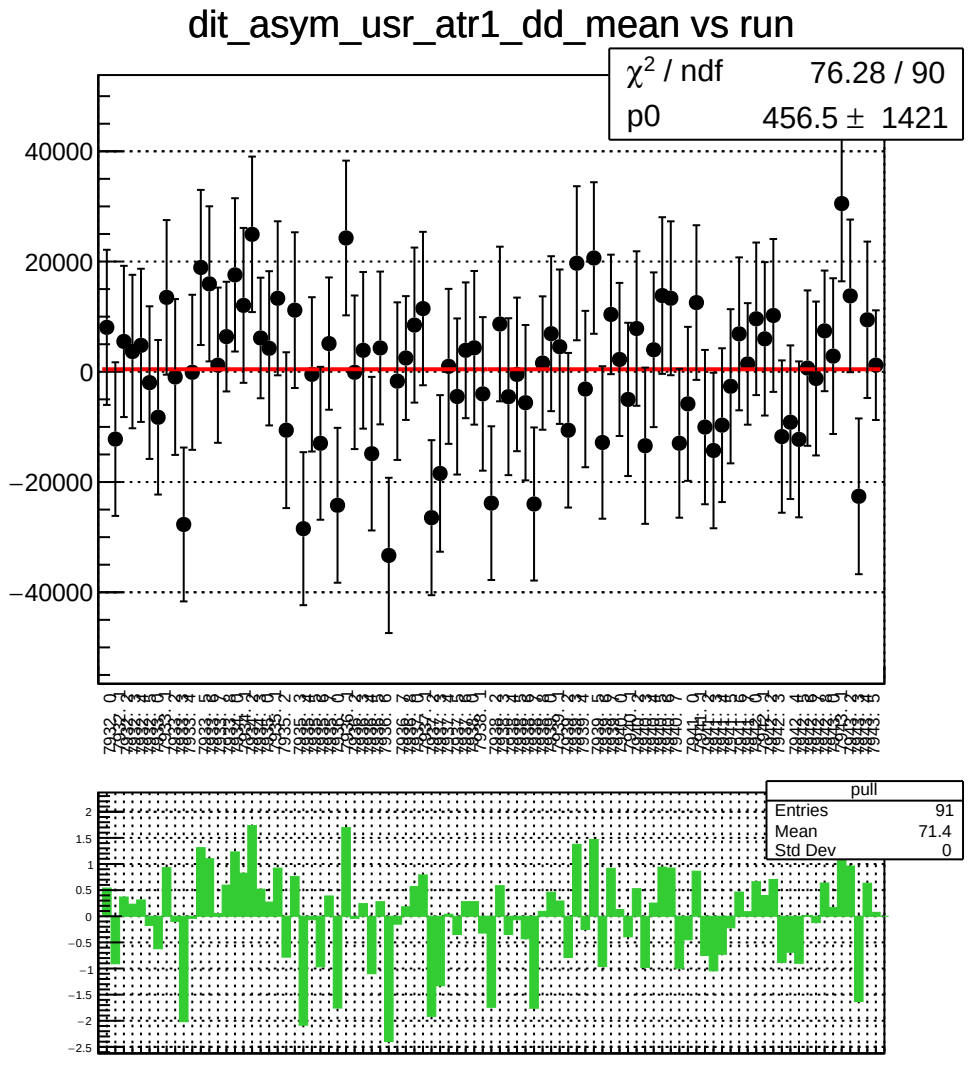

pull1D
Entries 91
Mean −0.01171
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

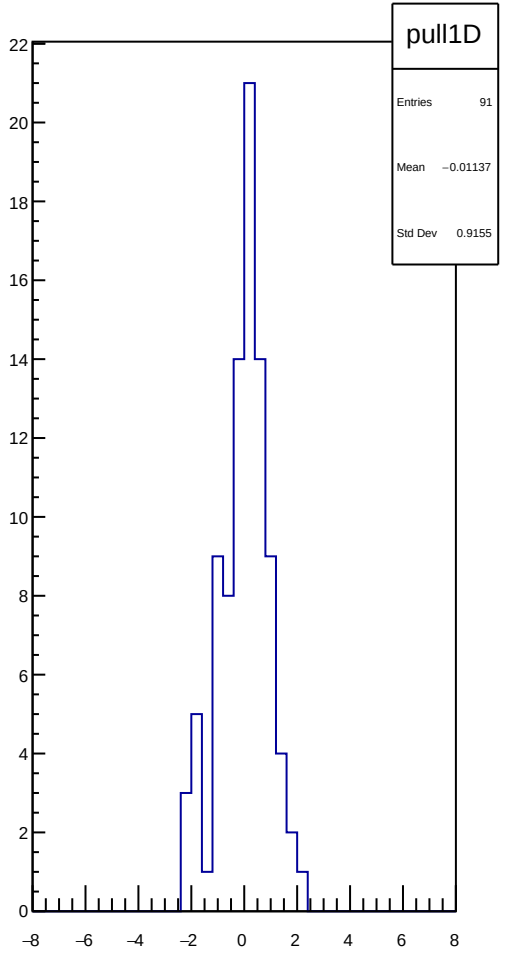

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 102.3 / 90
p0 1325 ± 1.002
1360
1350
1340
1330
1320
1310
1300
1290

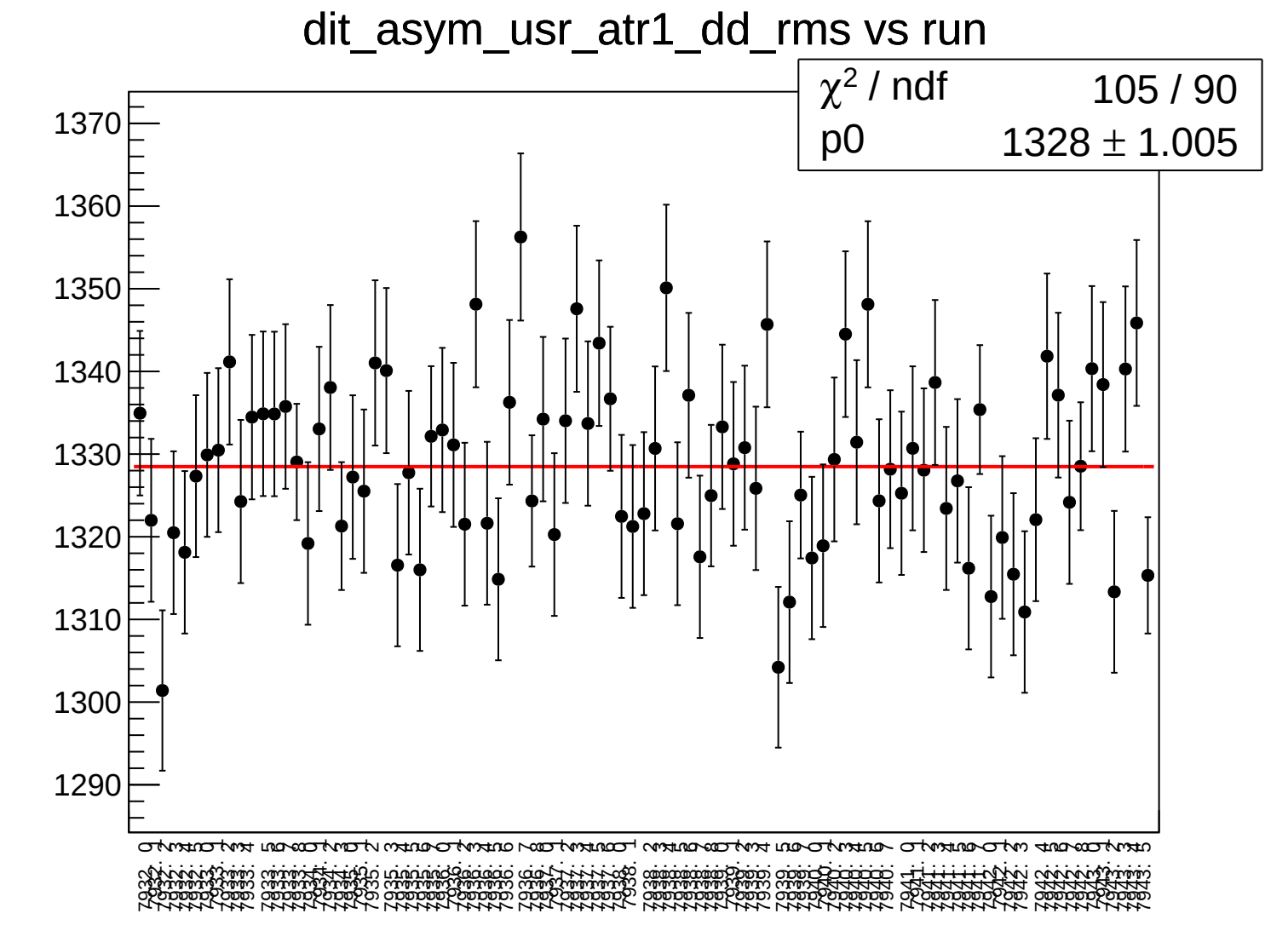

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 108.7 / 90
p0 686.9 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −1.974
Std Dev 0
2
1
0
−1
−2

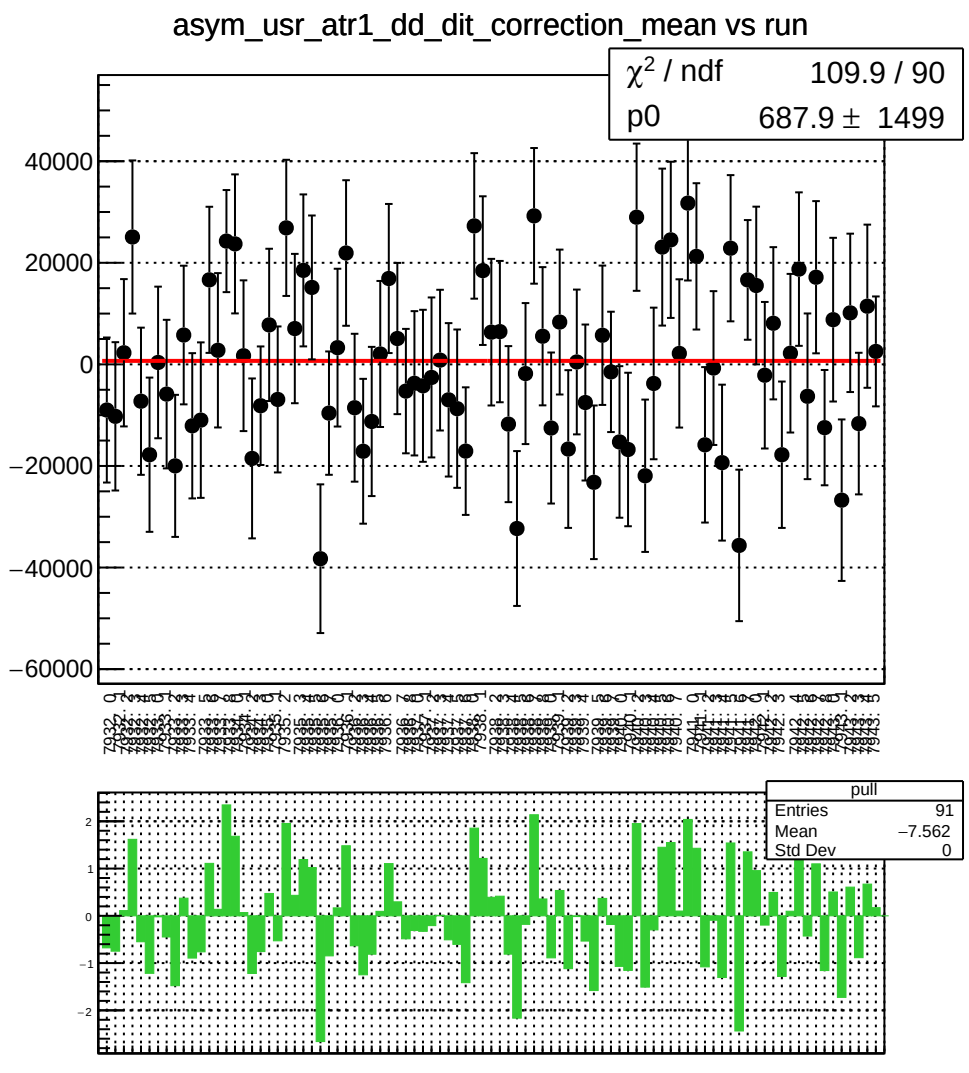

pull1D
Entries 91
Mean −0.01419
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

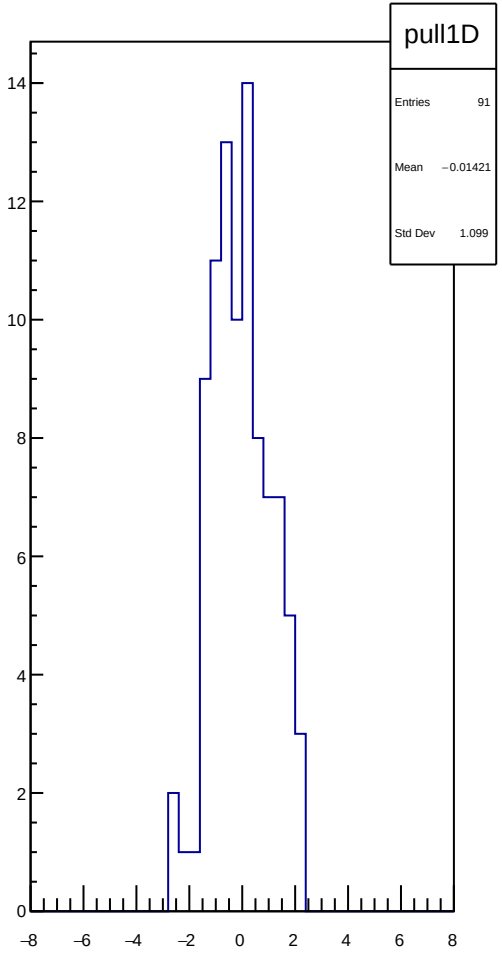

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2341 / 90
p0 1346 ± 1.018
1500
1450
1400
1350
1300
1250
1200

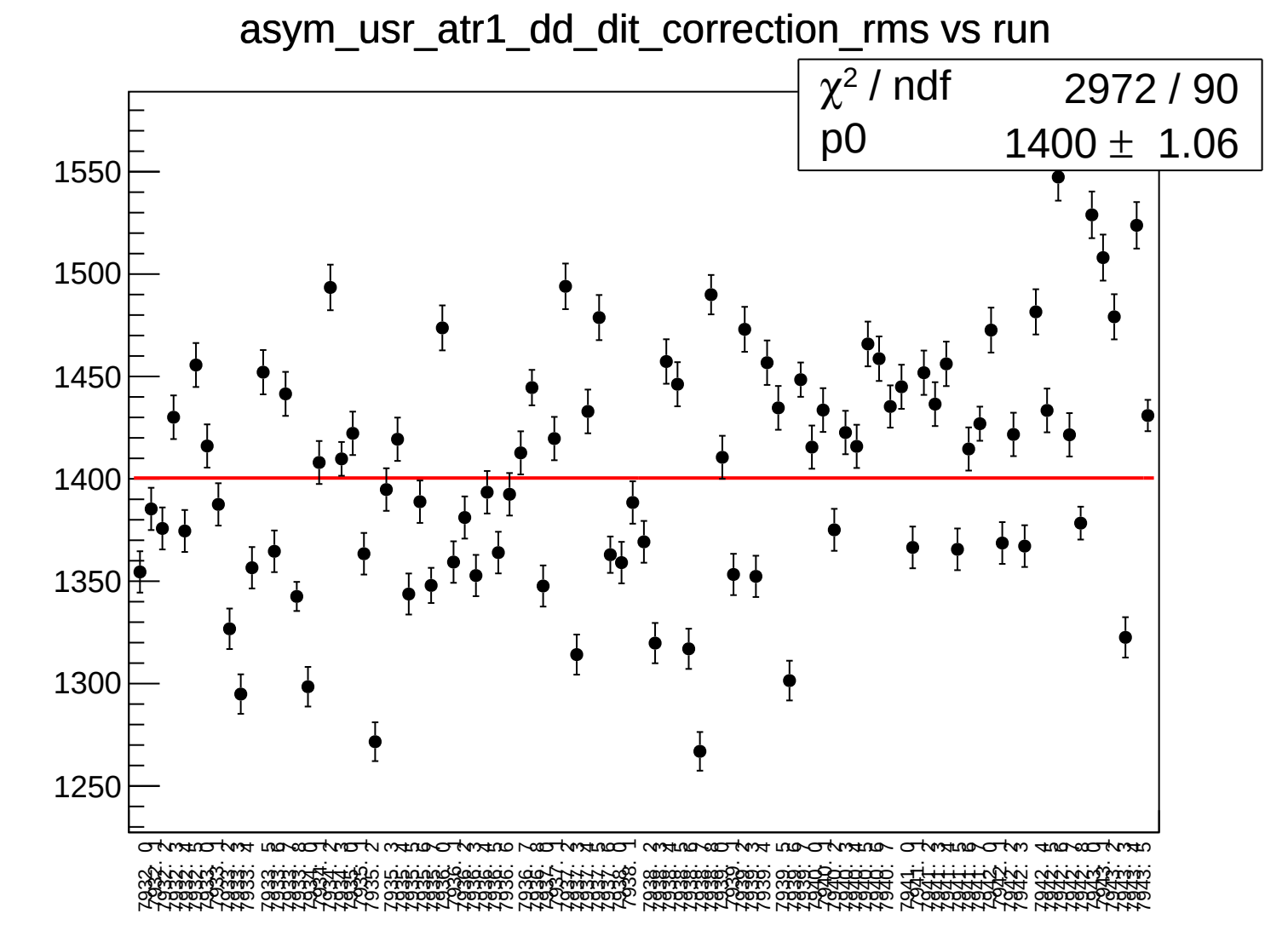

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 76.28 / 90
p0 456.5 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 71.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

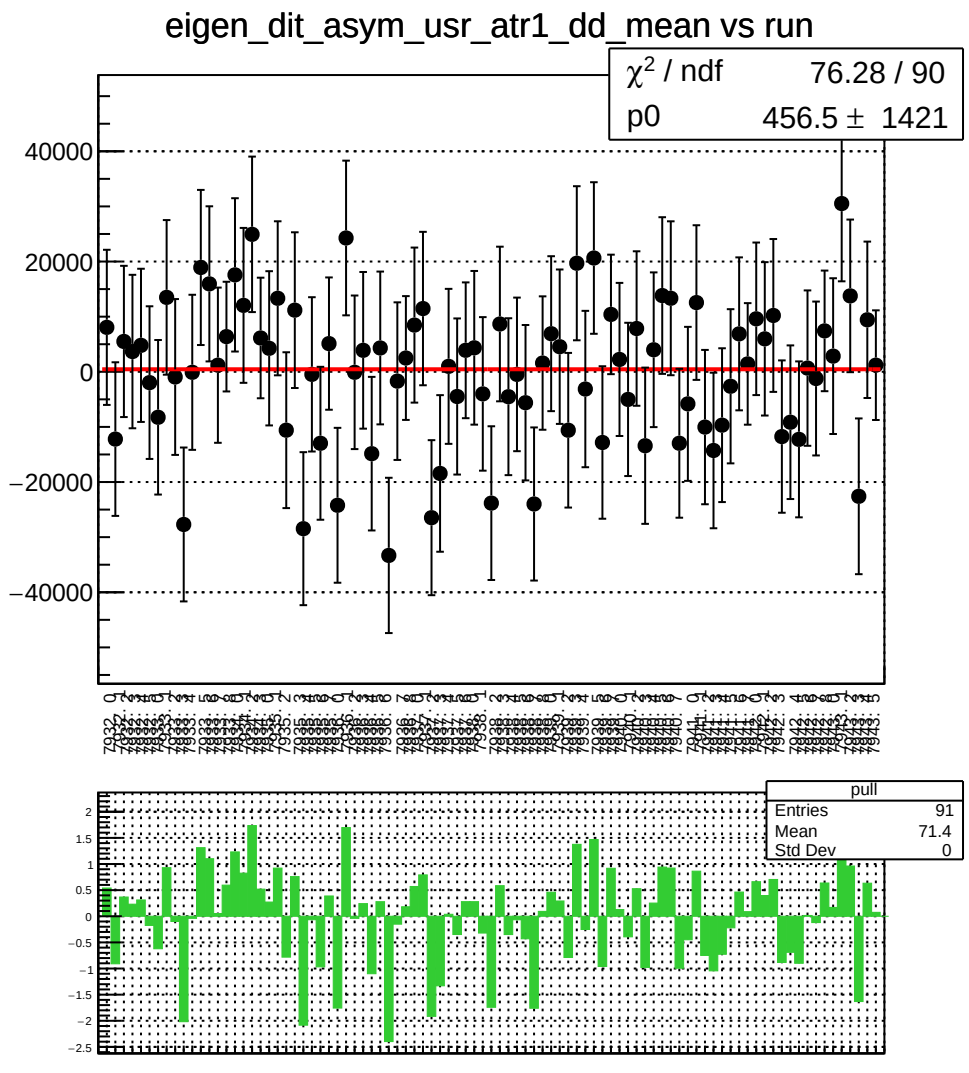

pull1D
Entries 91
Mean −0.01137
Std Dev 0.9155
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

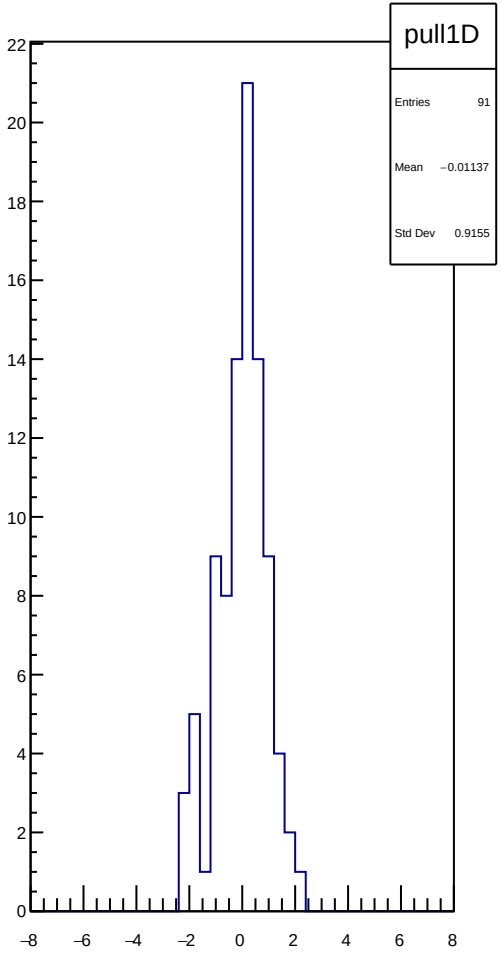

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 105 / 90
p0 1328 ± 1.005
1370
1360
1350
1340
1330
1320
1310
1300
1290

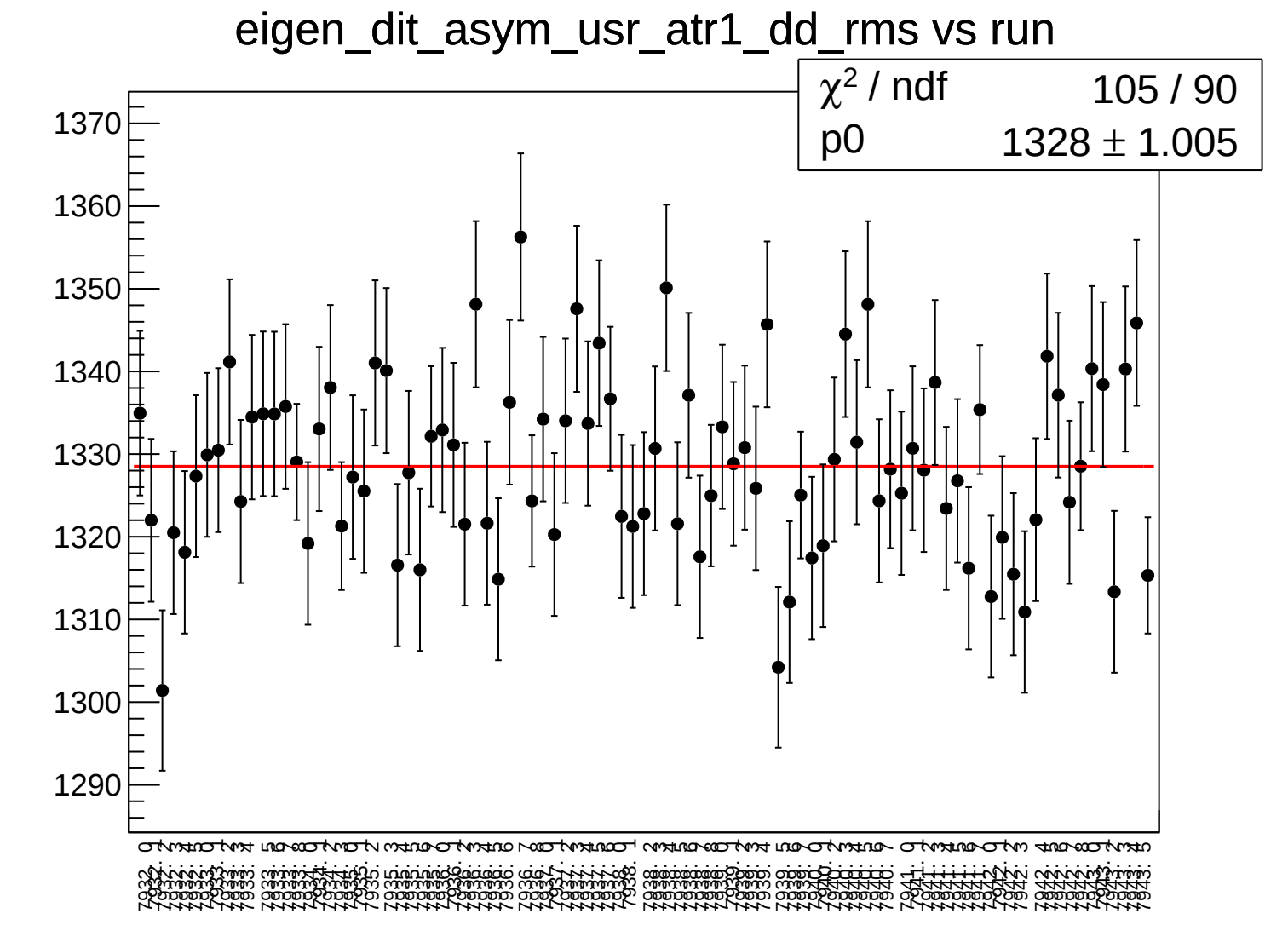

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 109.9 / 90
p0 687.9 ± 1499
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −7.562
Std Dev 0
2
1
0
−1
−2

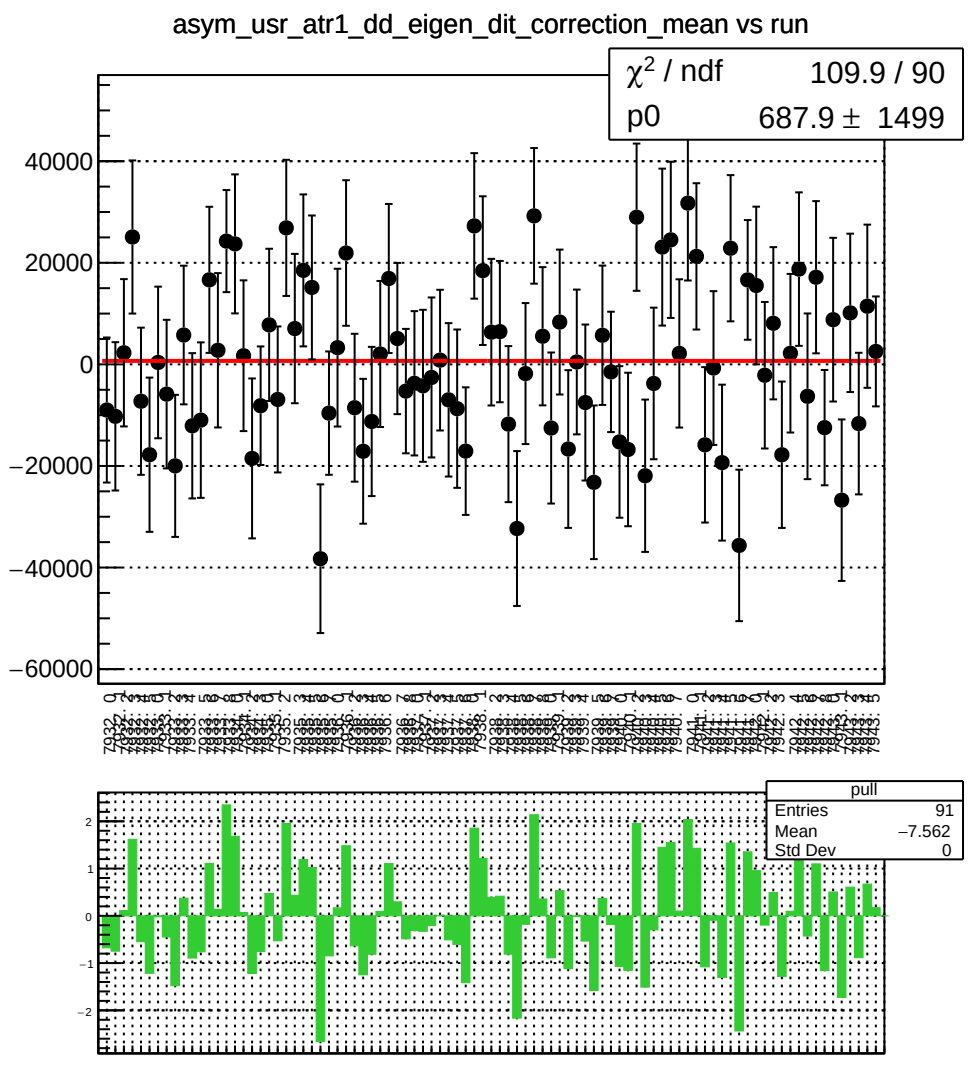

pull1D
Entries 91
Mean −0.01421
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

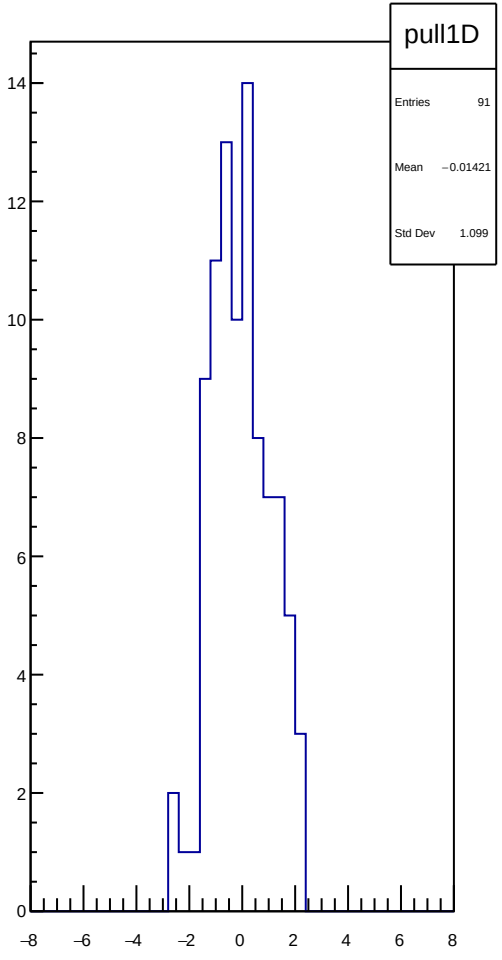

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2972 / 90
p0 1400 ± 1.06
1550
1500
1450
1400
1350
1300
1250

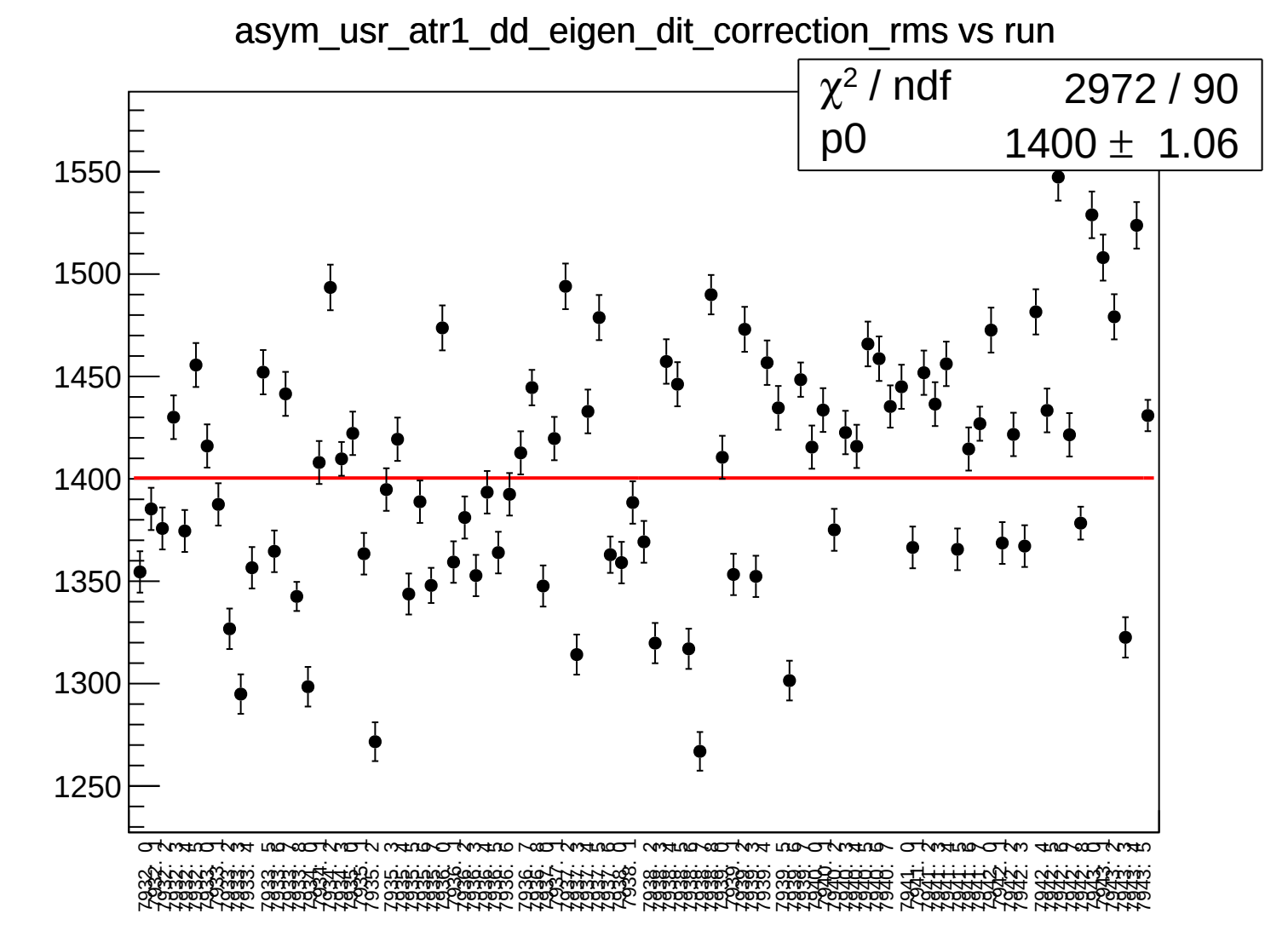

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 76.28 / 90
p0 456.5 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 71.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

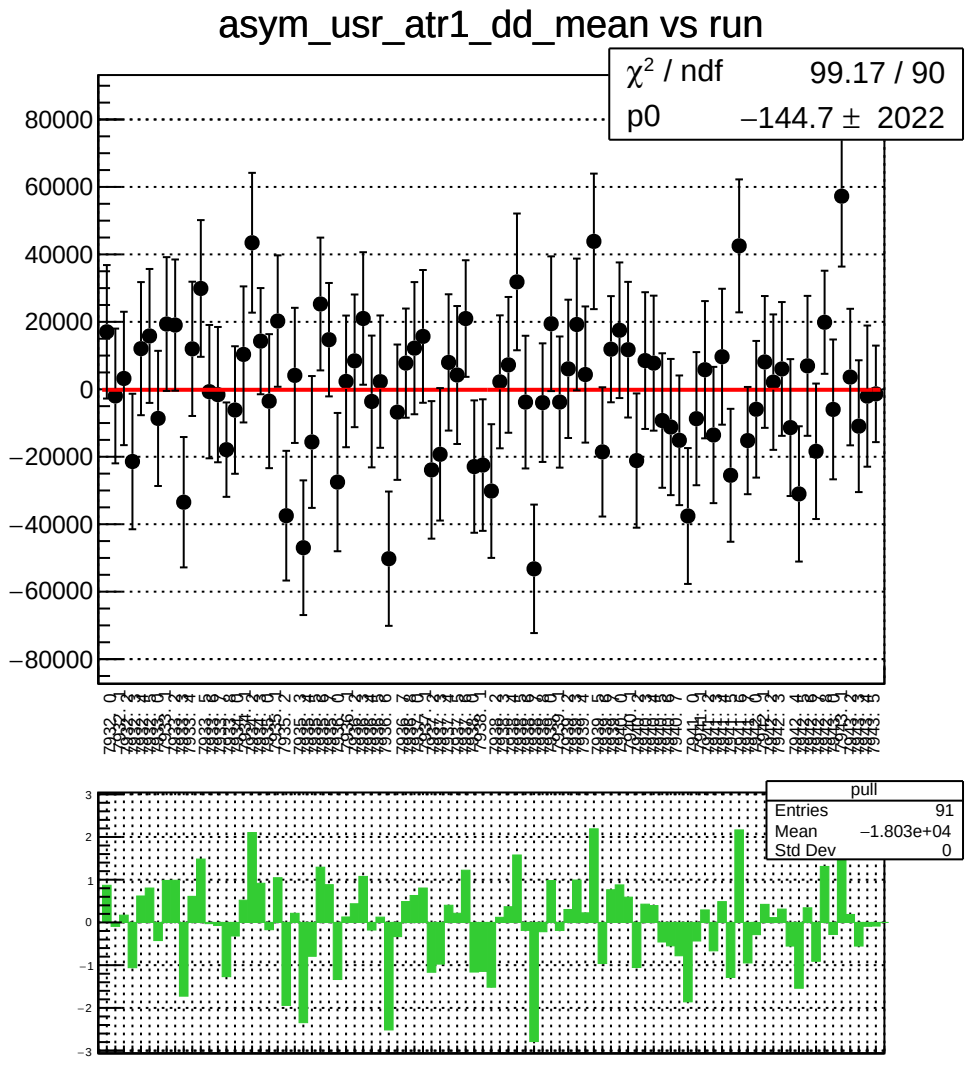

pull1D
Entries 91
Mean −0.01137
Std Dev 0.9155
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

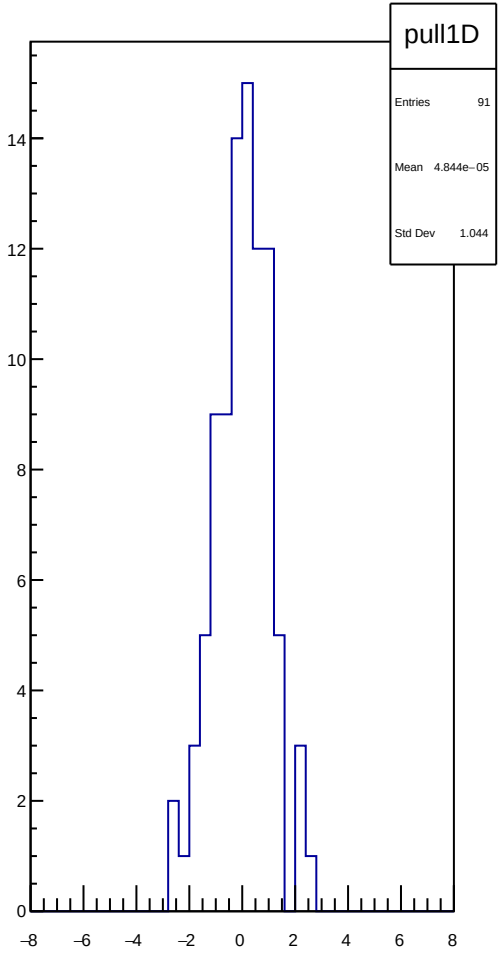

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 105 / 90
p0 1328 ± 1.005
1370
1360
1350
1340
1330
1320
1310
1300
1290

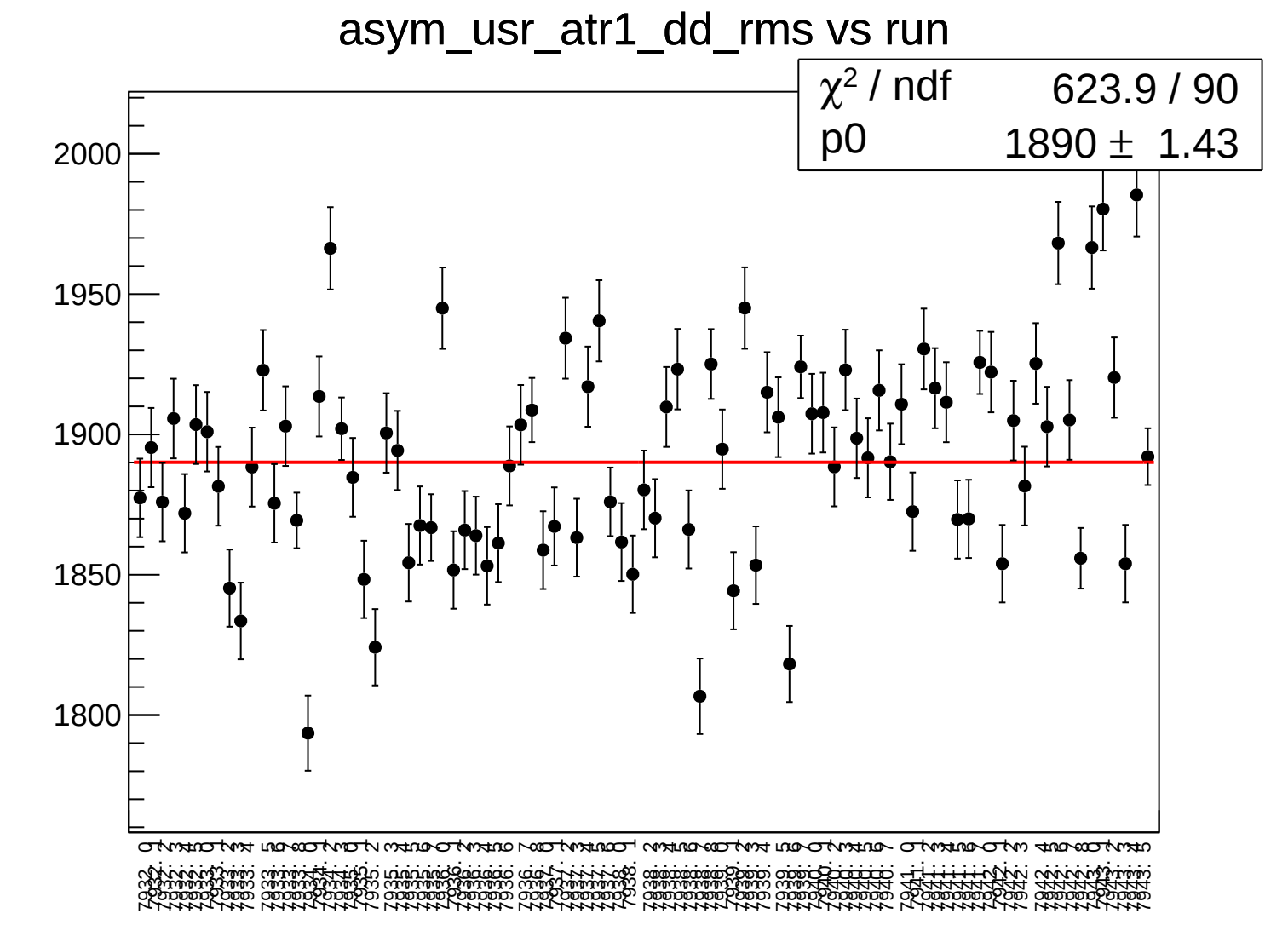

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 109.9 / 90
p0 687.9 ± 1499
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −7.562
Std Dev 0
2
1
0
−1
−2

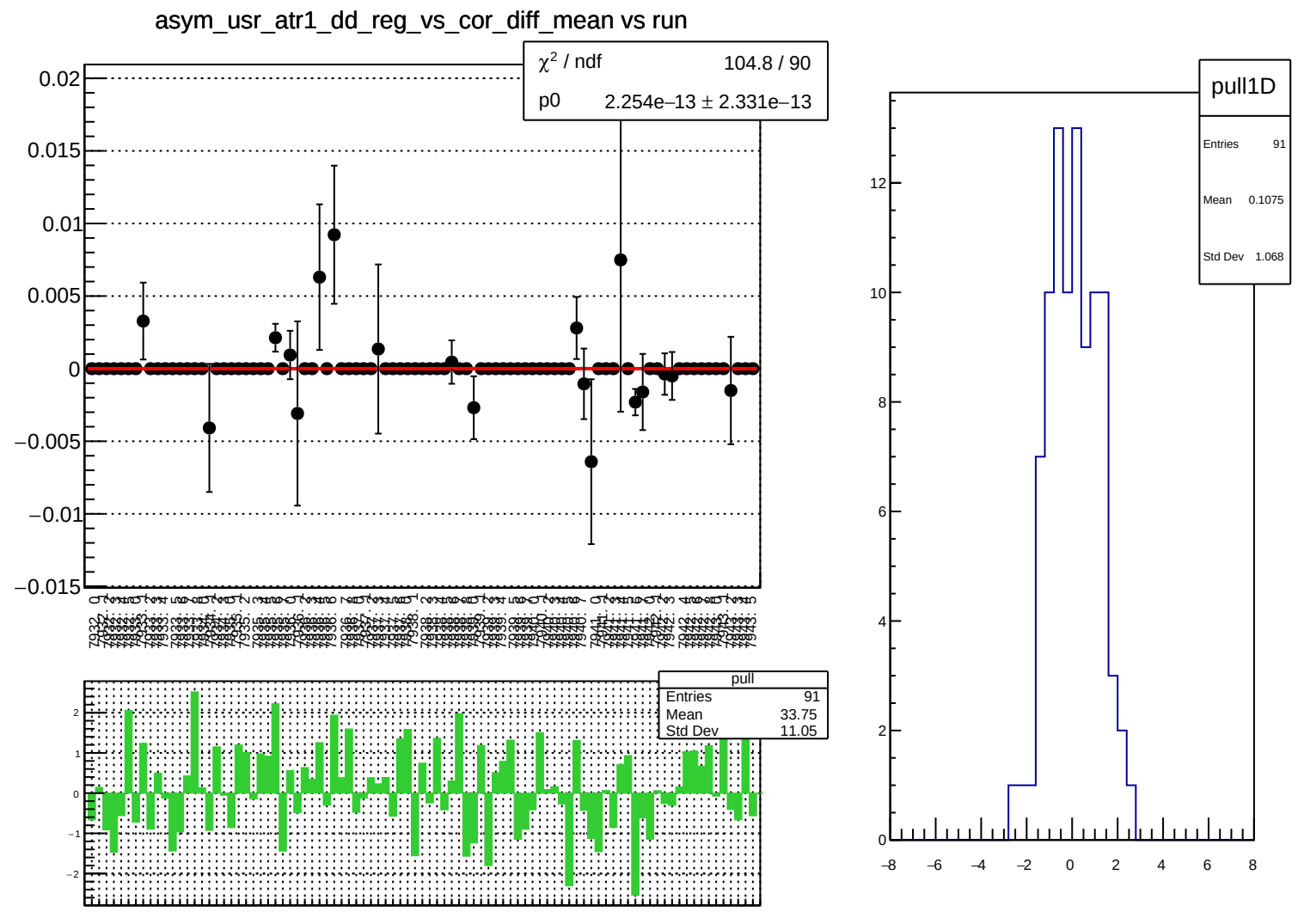

pull1D
Entries 91
Mean −0.01421
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

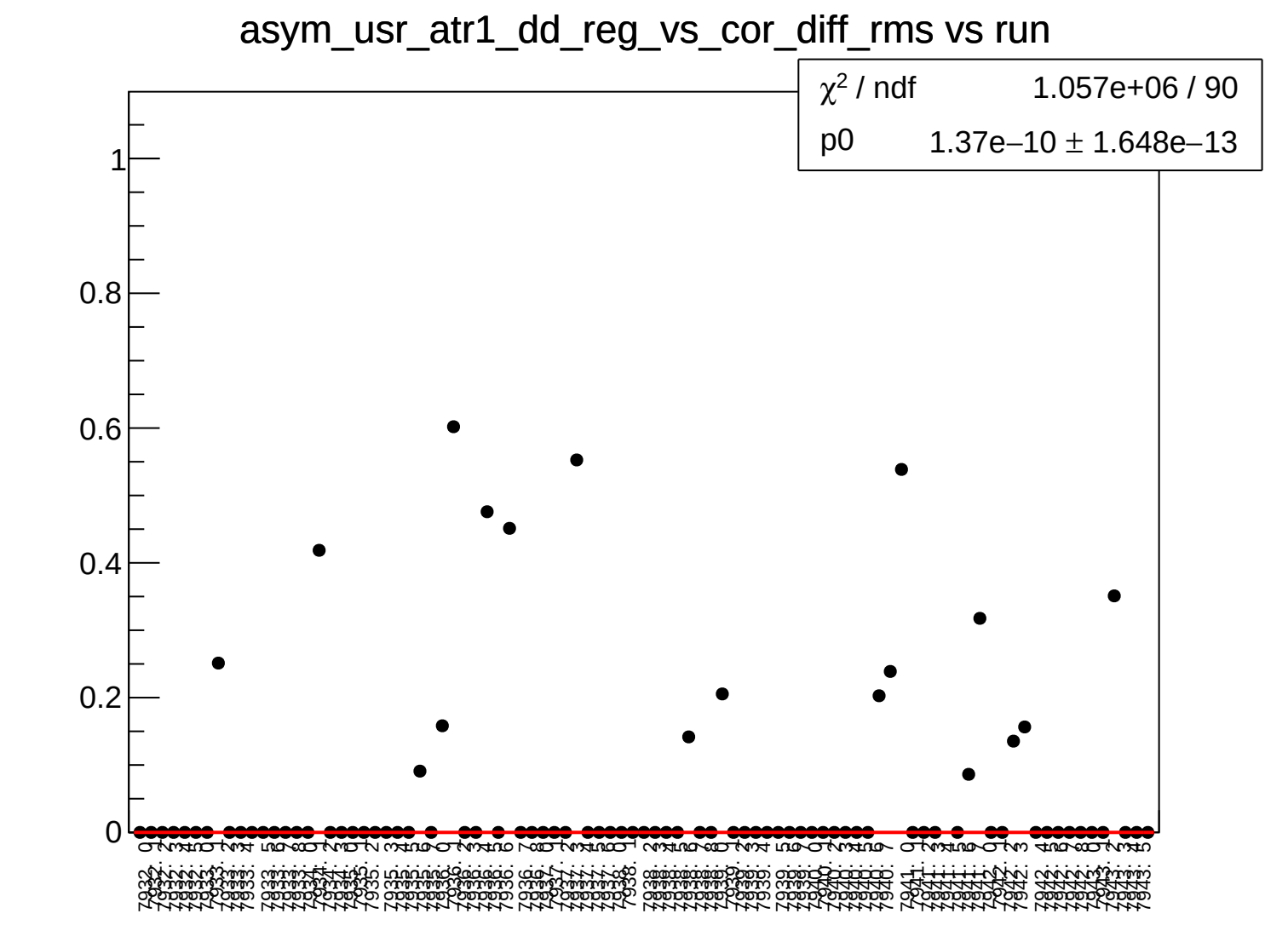

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2972 / 90
p0 1400 ± 1.06
1550
1500
1450
1400
1350
1300
1250

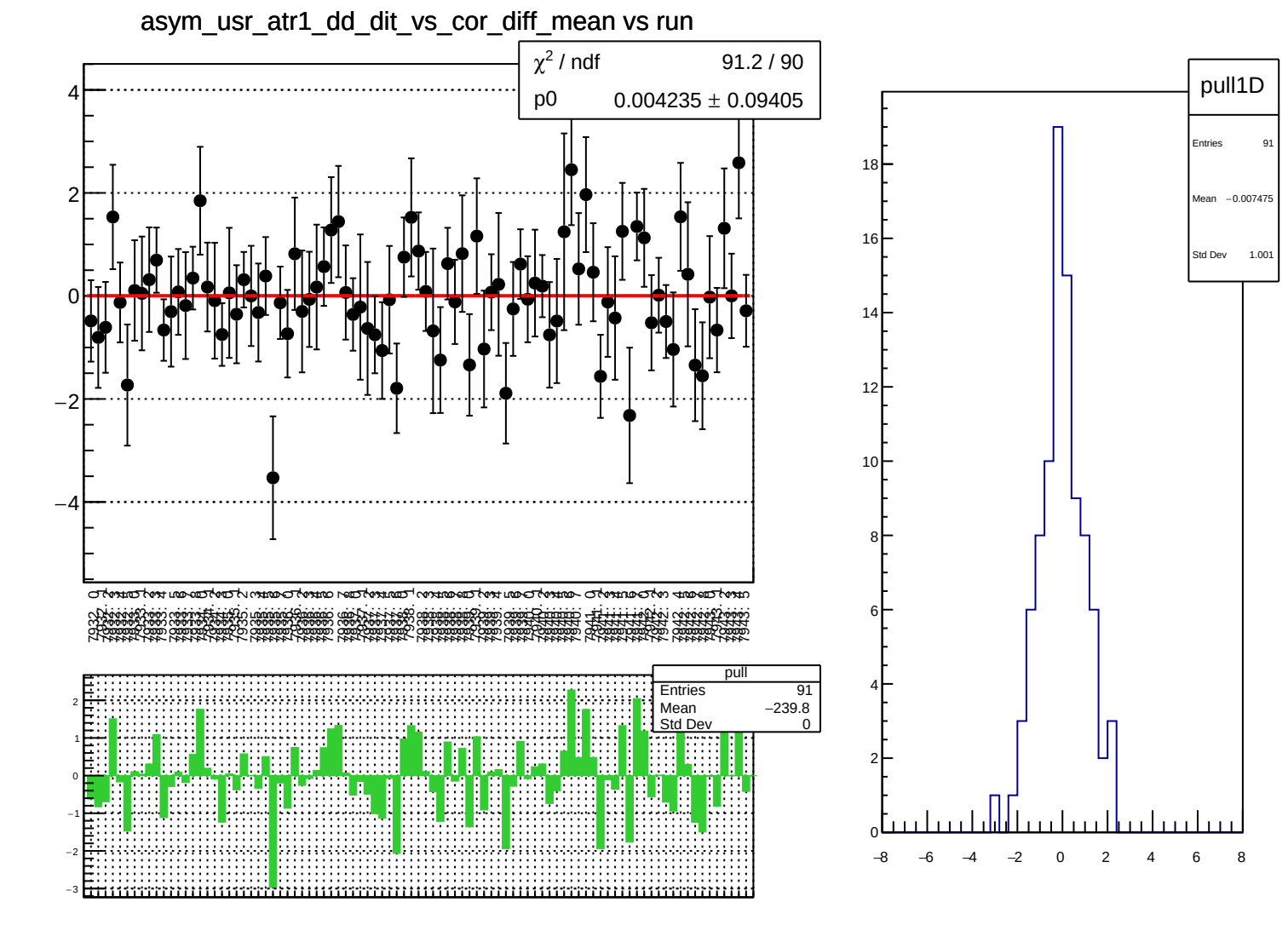

asym_usr_atr1_dd_mean vs run
χ² / ndf 99.17 / 90
p0 −144.7 ± 2022
pull
Entries 91
Mean −1.803e+04
Std Dev 0

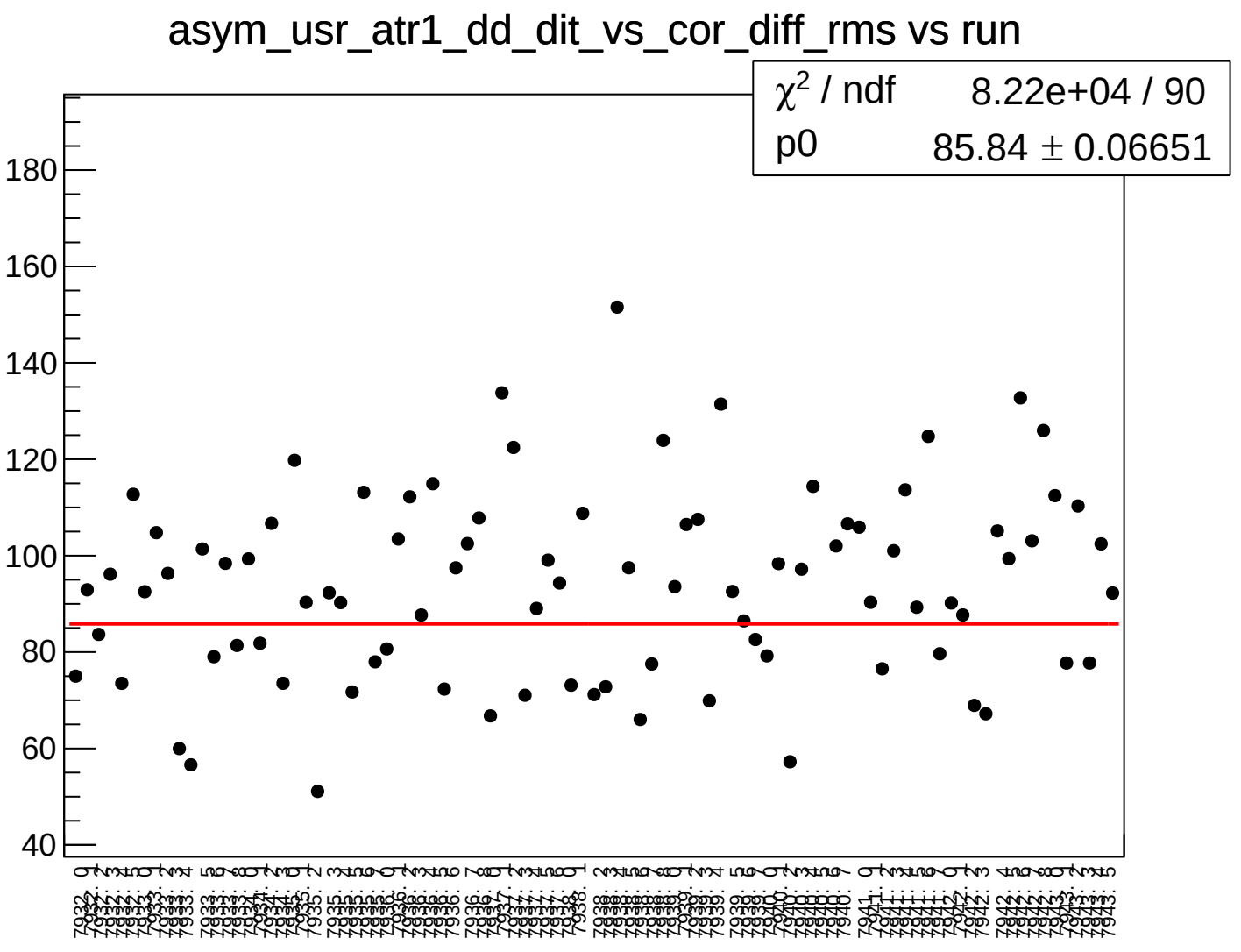

pull1D
Entries 91
Mean 4.844e−05
Std Dev 1.044

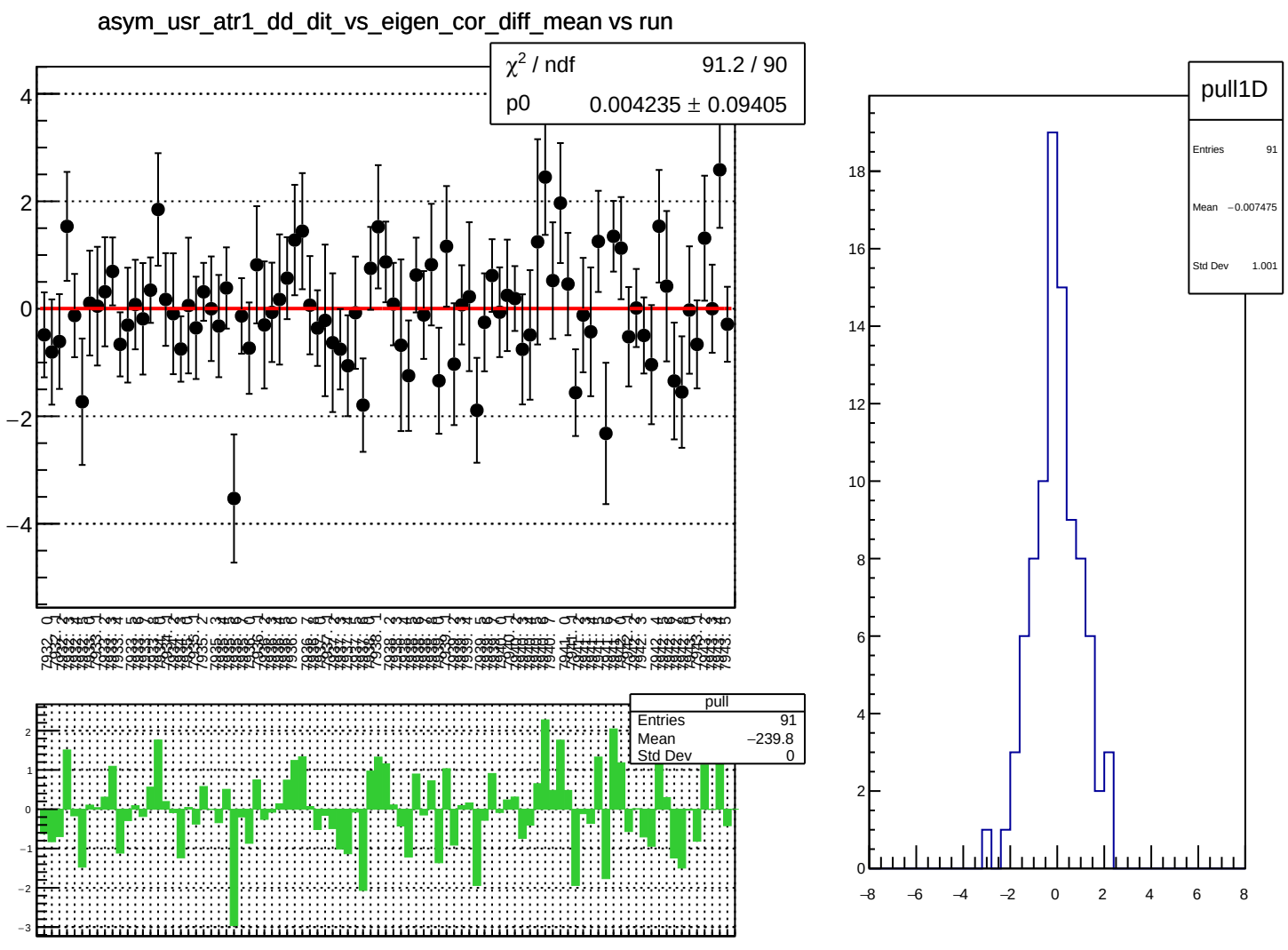

asym_usr_atr1_dd_rms vs run
χ² / ndf 623.9 / 90
p0 1890 ± 1.43
2000
1950
1900
1850
1800

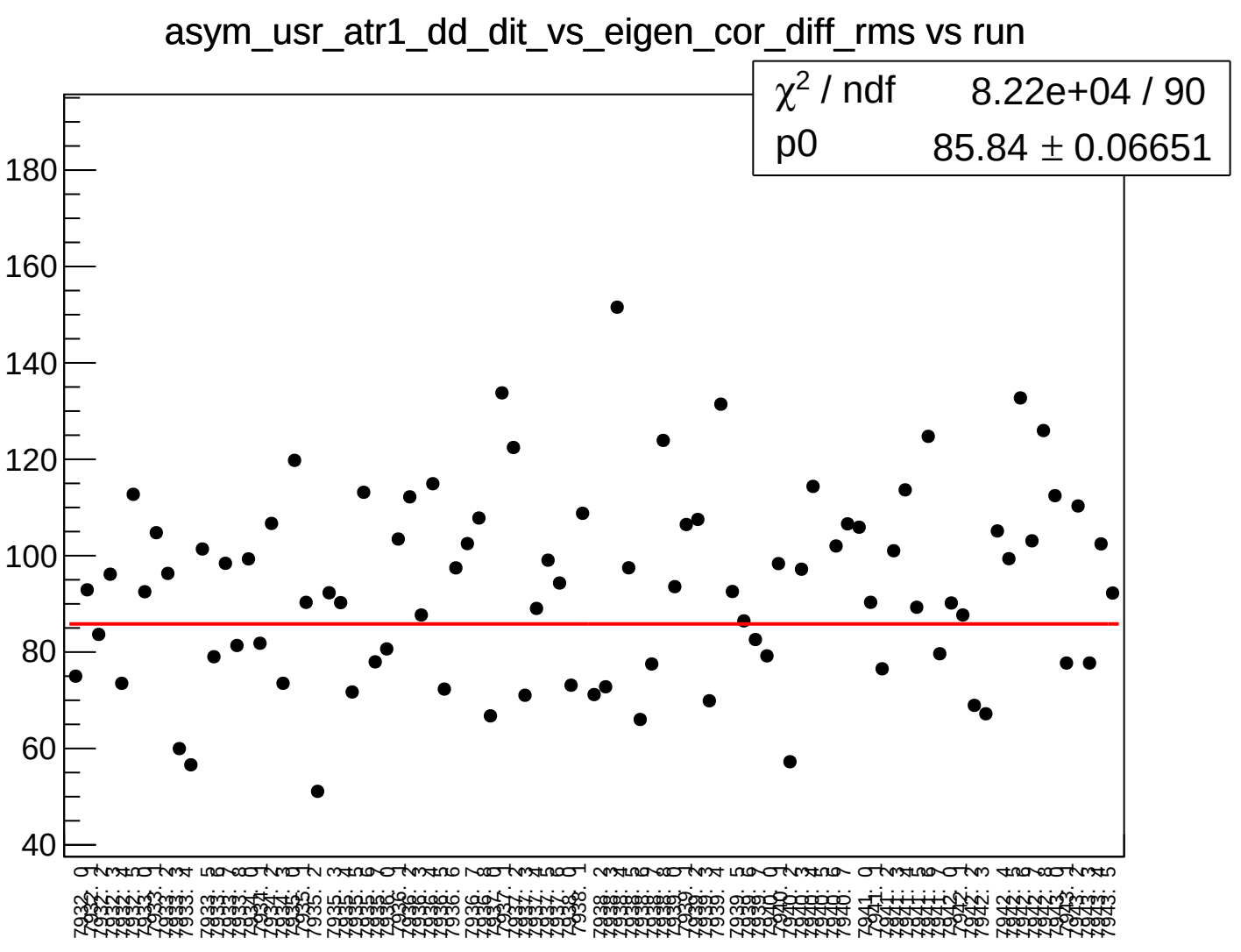

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 90
p0 2.254e−13 ± 2.331e−13
pull
Entries 91
Mean 33.75
Std Dev 11.05
pull1D
Entries 91
Mean 0.1075
Std Dev 1.068

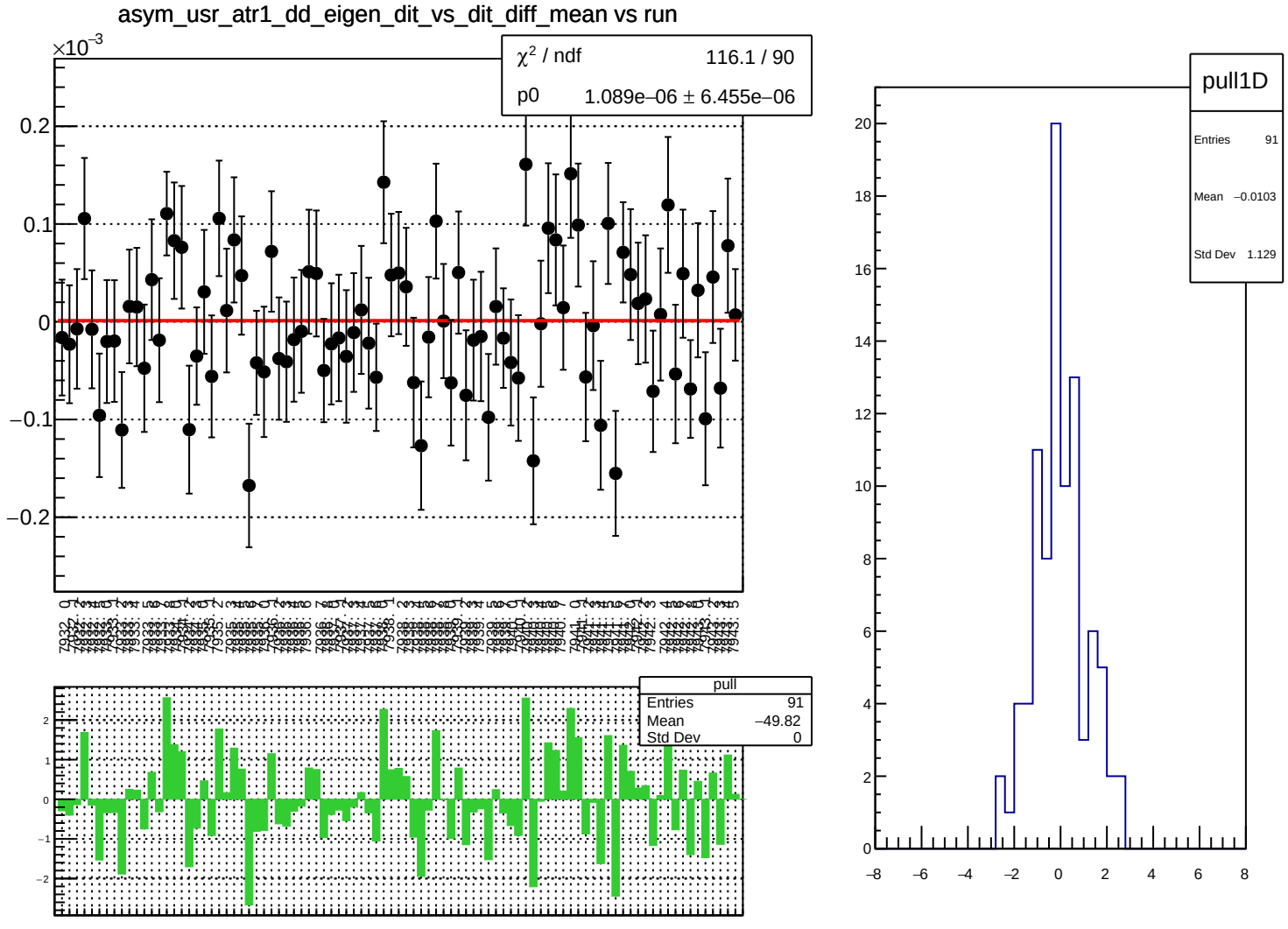

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 90
p0 1.37e−10 ± 1.648e−13
1
0.8
0.6
0.4
0.2
0

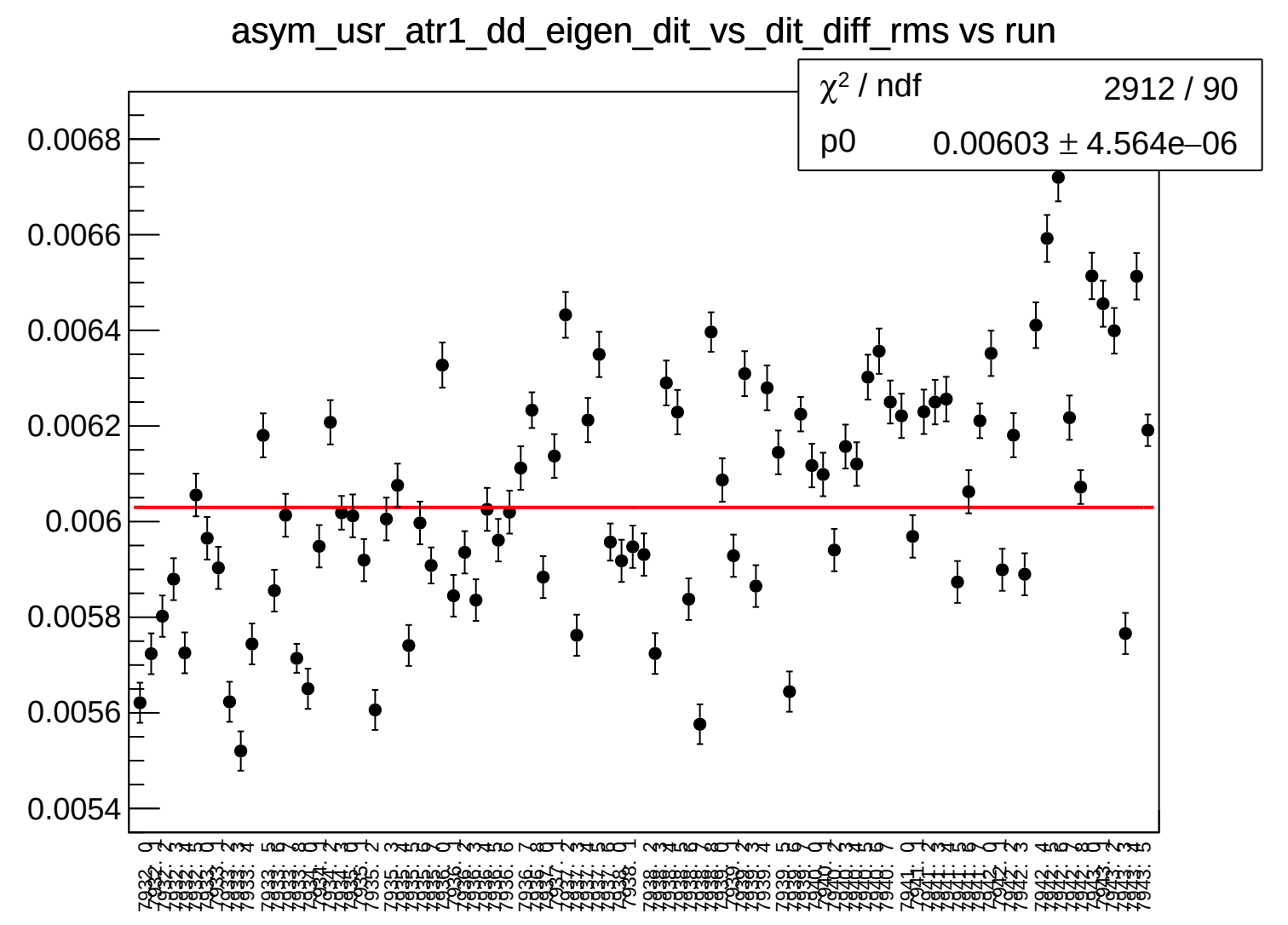

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.2 / 90
p0 0.004235 ± 0.09405
pull
Entries 91
Mean −239.8
Std Dev 0
pull1D
Entries 91
Mean −0.007475
Std Dev 1.001

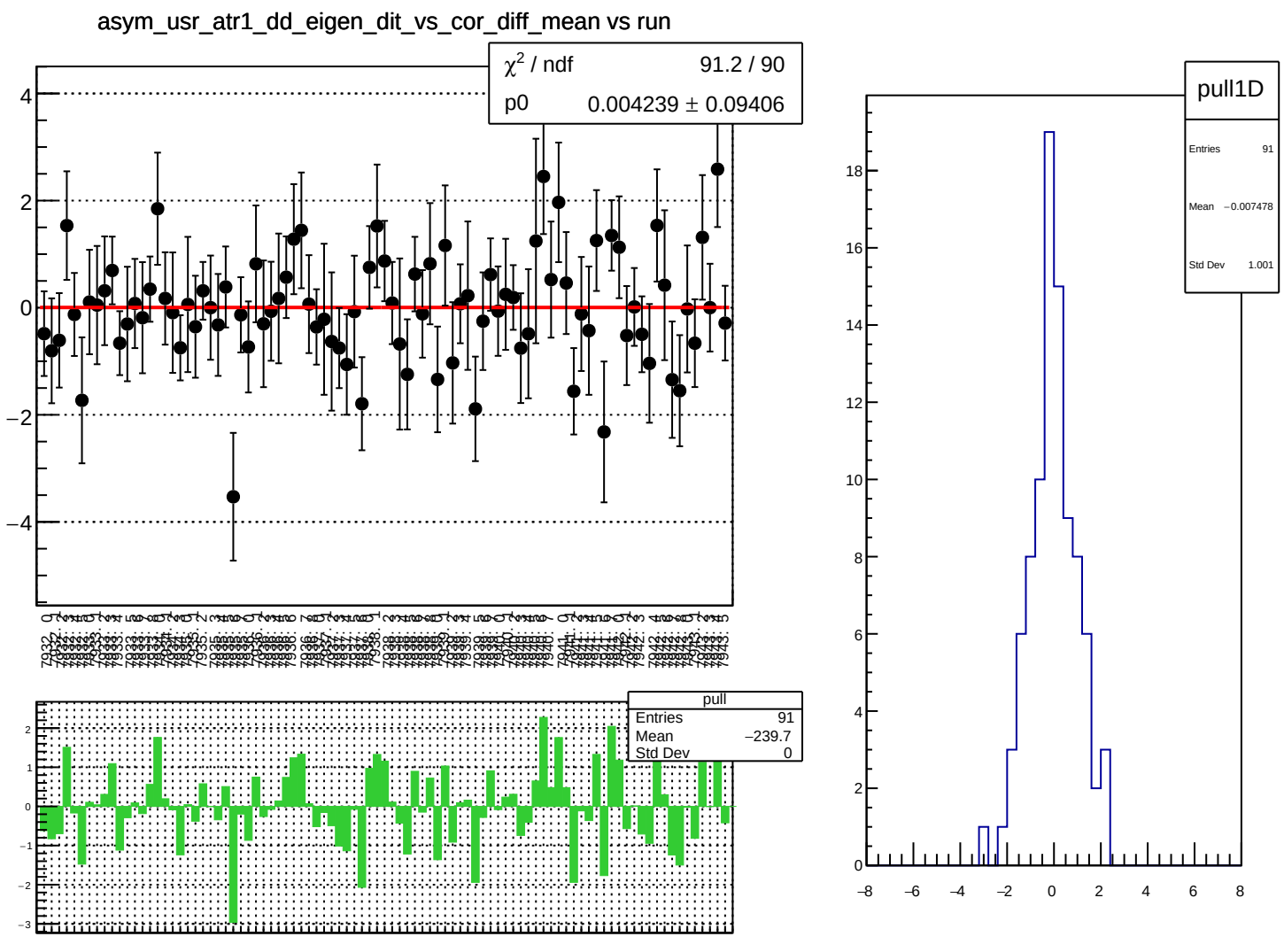

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.22e+04 / 90
p0 85.84 ± 0.06651
180
160
140
120
100
80
60
40

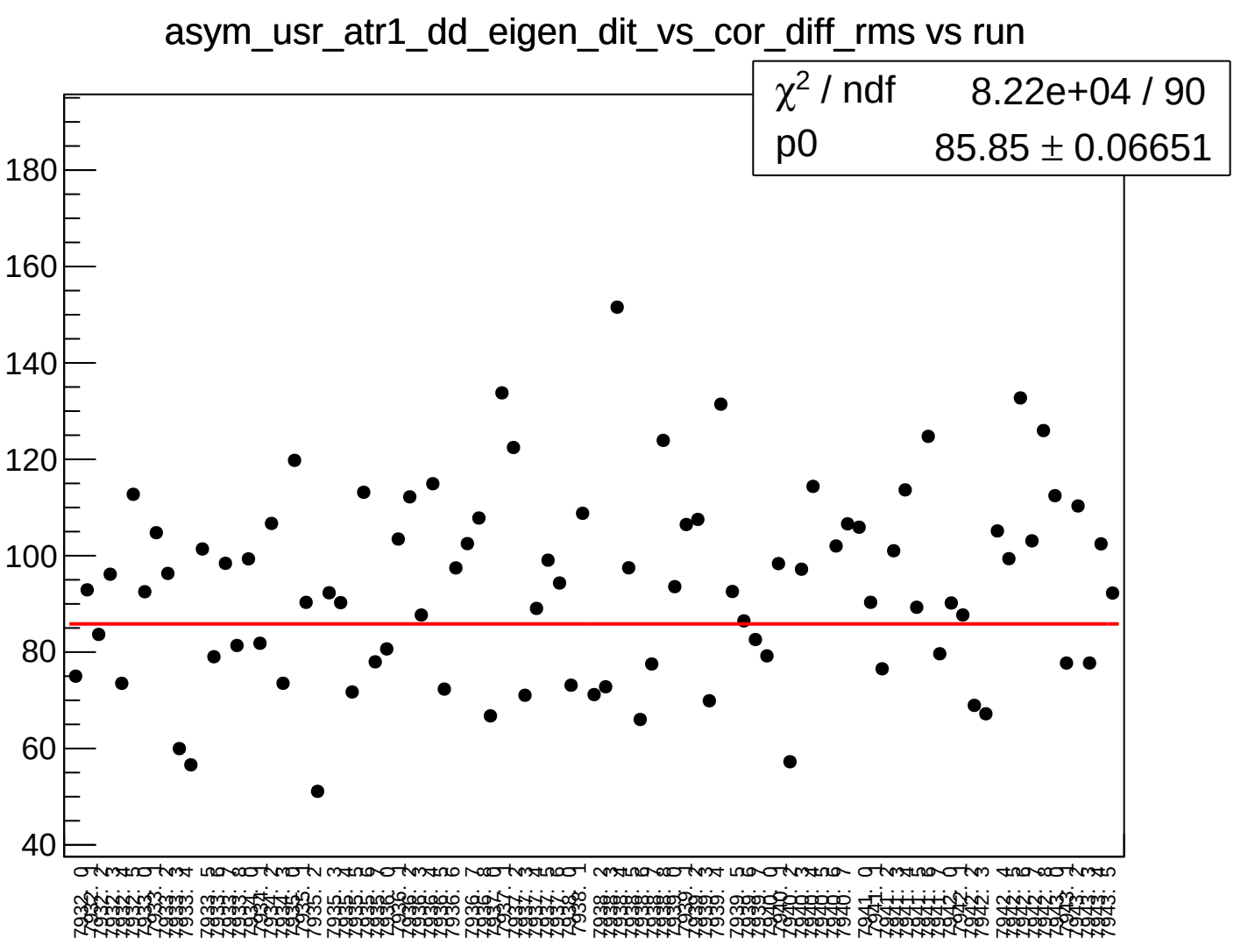

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.2 / 90
p0 0.004235 ± 0.09405
pull
Entries 91
Mean −239.8
Std Dev 0
pull1D
Entries 91
Mean −0.007475
Std Dev 1.001

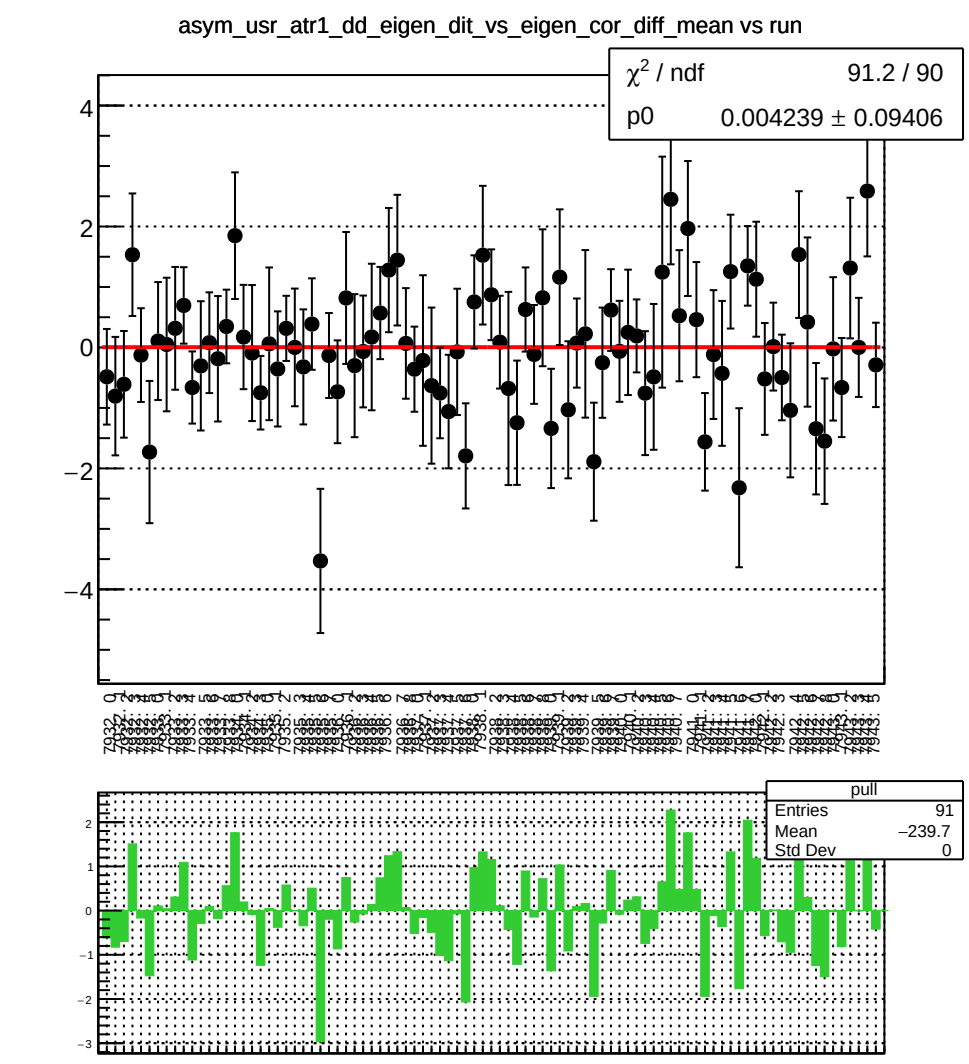

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.22e+04 / 90
p0 85.84 ± 0.06651
180
160
140
120
100
80
60
40

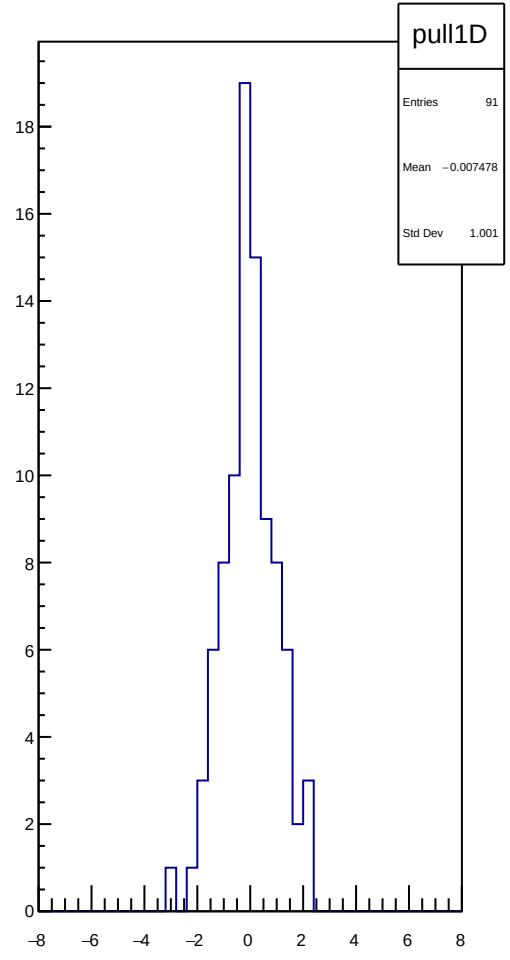

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.1 / 90
p0 1.089e−06 ± 6.455e−06
pull
Entries 91
Mean −49.82
Std Dev 0
pull1D
Entries 91
Mean −0.0103
Std Dev 1.129

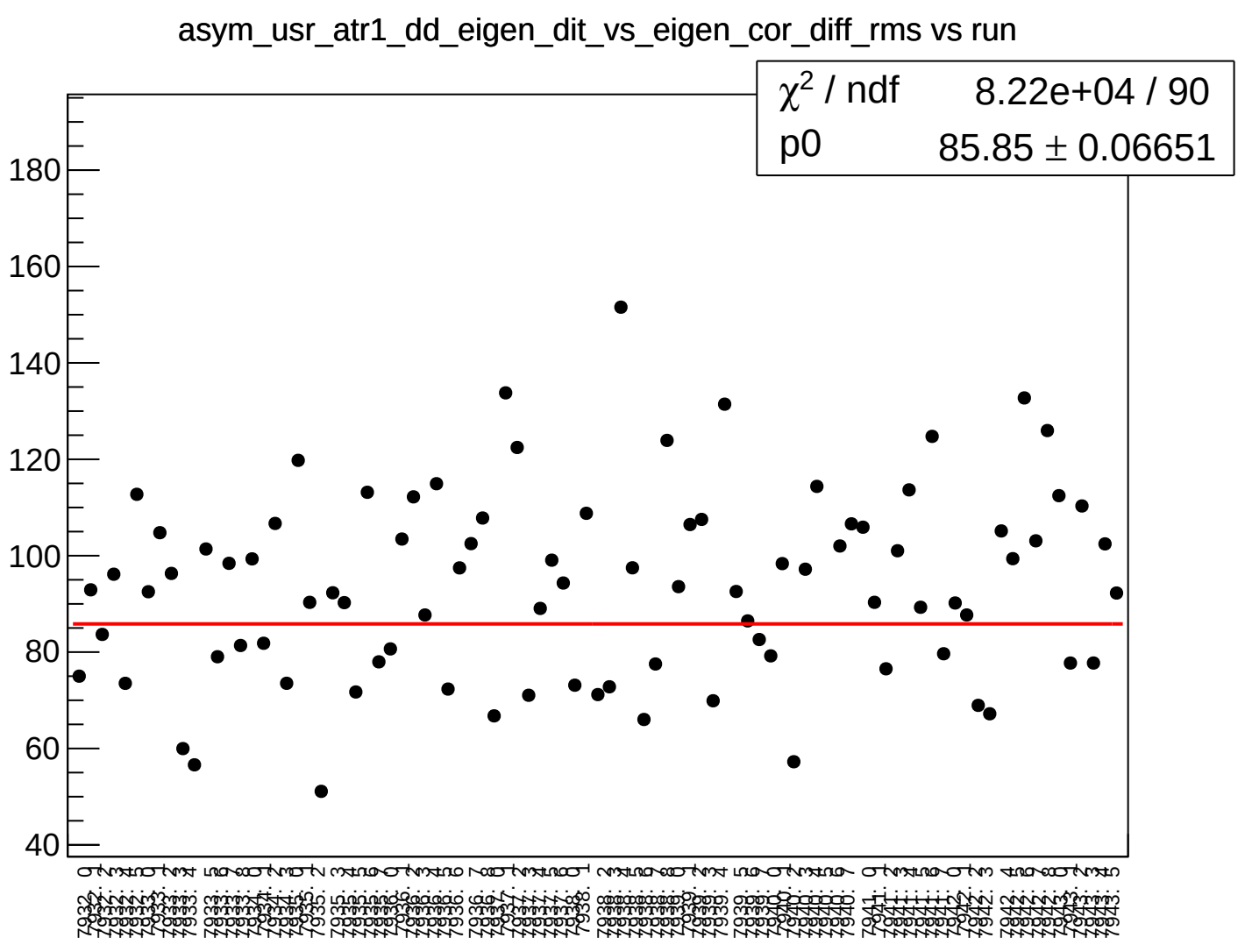

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2912 / 90
p0 0.00603 ± 4.564e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

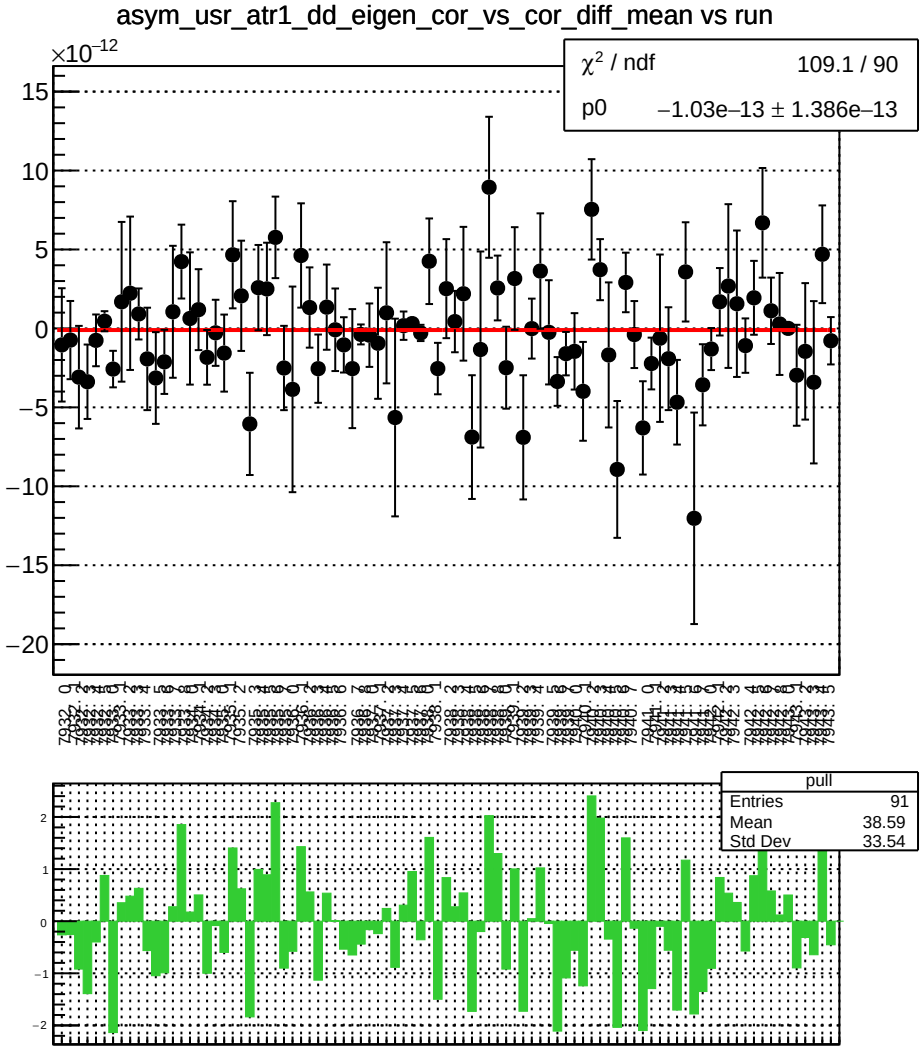

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.2 / 90
p0 0.004239 ± 0.09406
pull
Entries 91
Mean −239.7
Std Dev 0
pull1D
Entries 91
Mean −0.007478
Std Dev 1.001

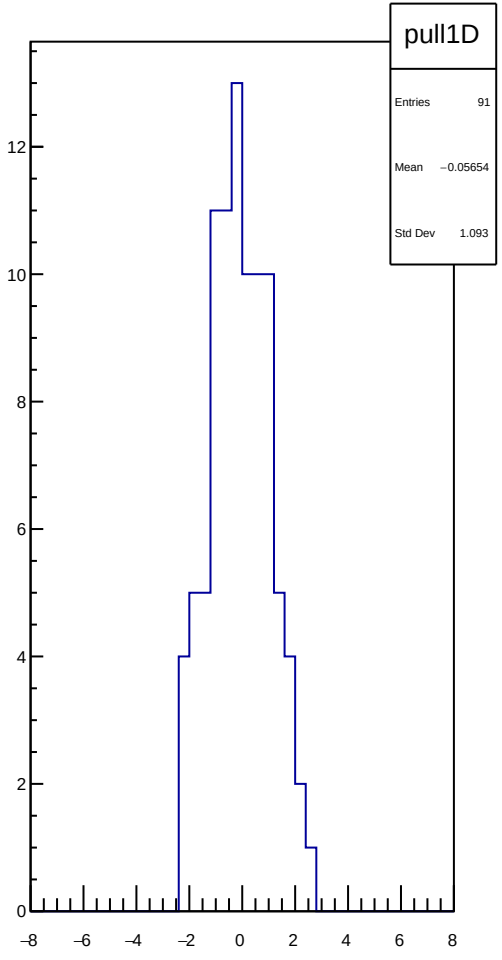

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.22e+04 / 90
p0 85.85 ± 0.06651
180
160
140
120
100
80
60
40

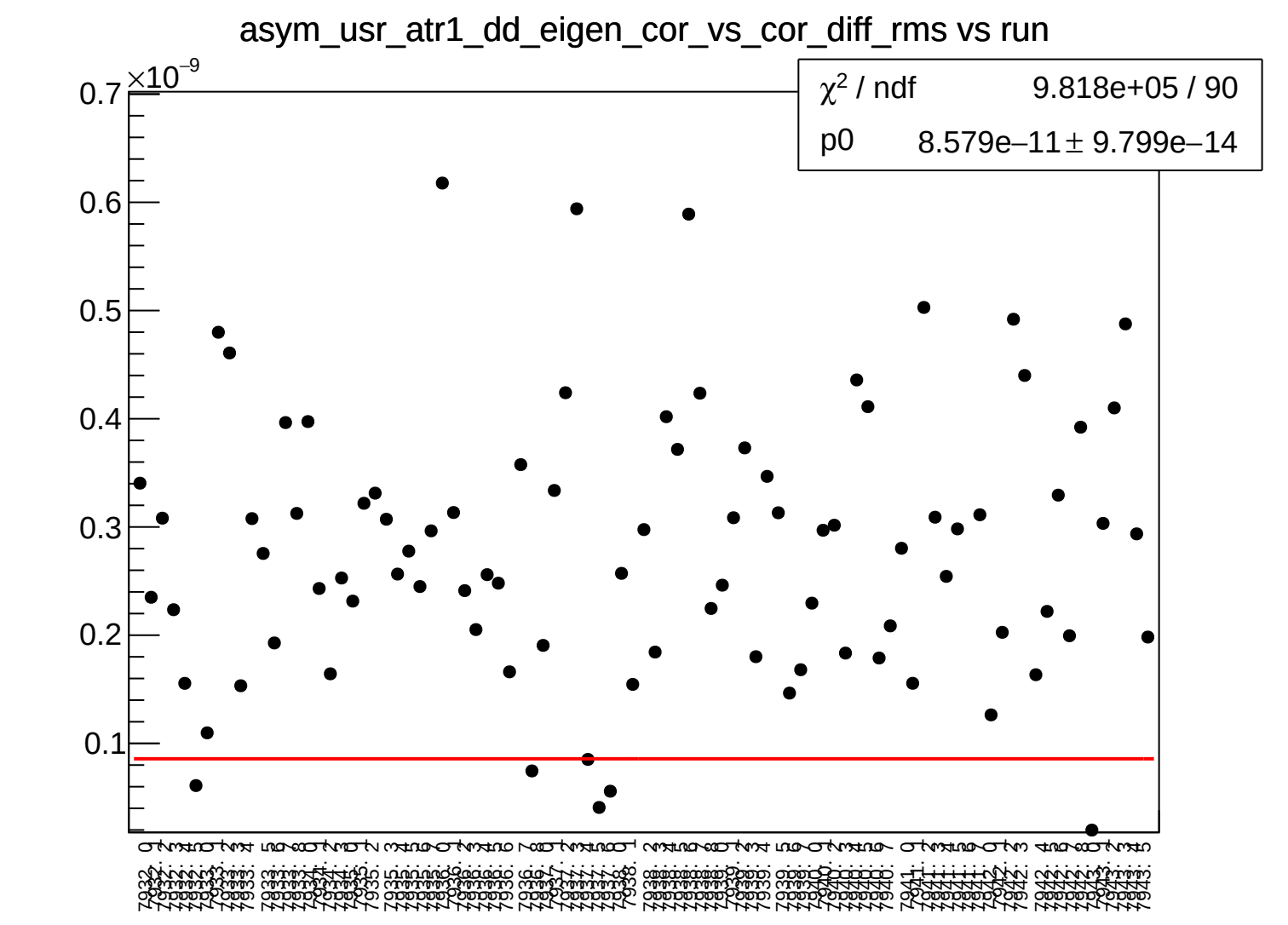

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.2 / 90
p0 0.004239 ± 0.09406
pull
Entries 91
Mean −239.7
Std Dev 0

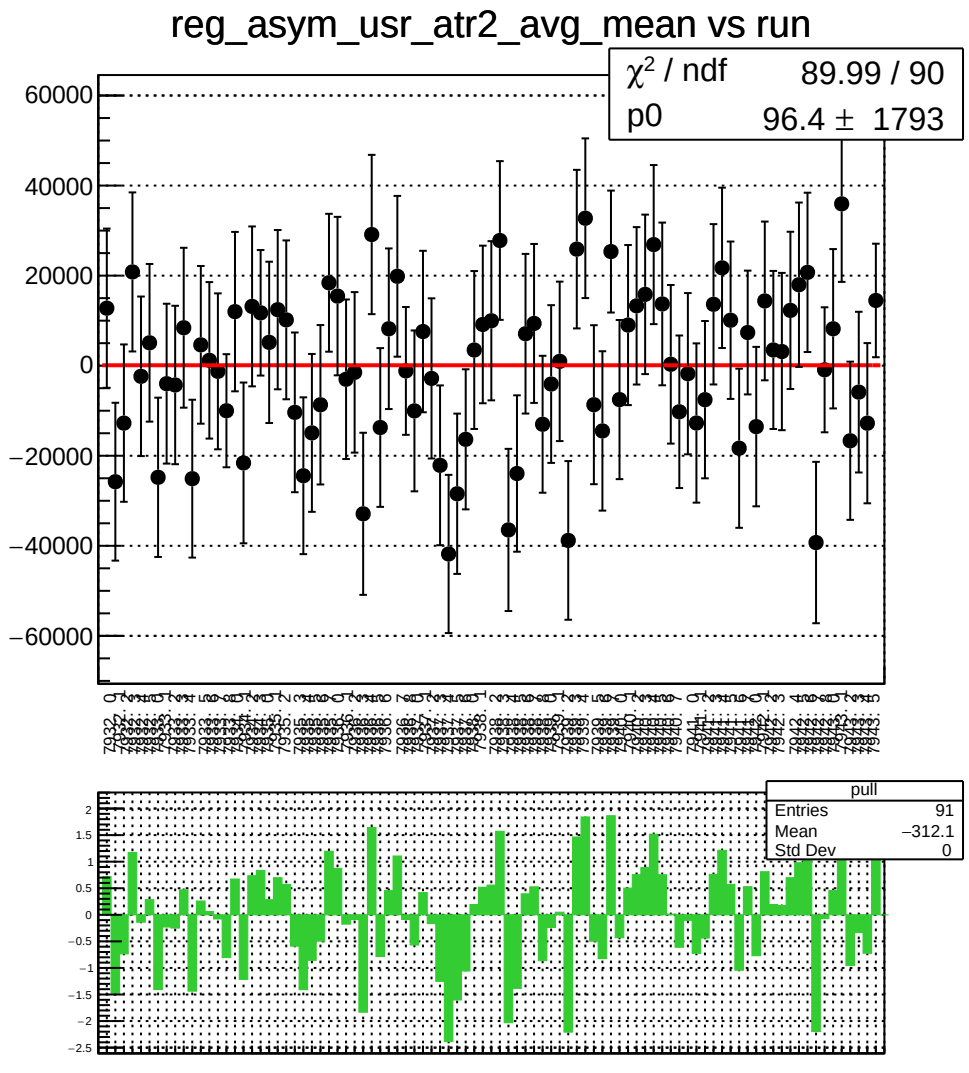

pull1D
Entries 91
Mean −0.007478
Std Dev 1.001

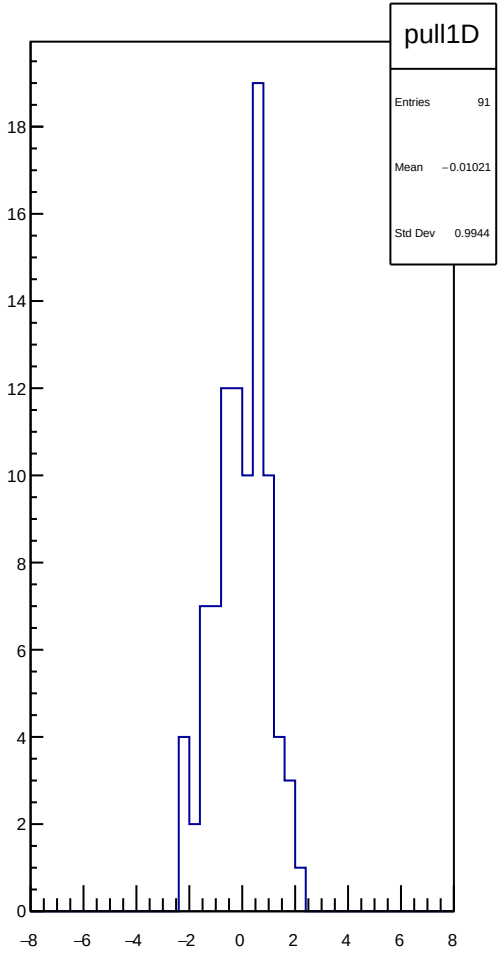

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.22e+04 / 90
p0 85.85 ± 0.06651
180
160
140
120
100
80
60
40

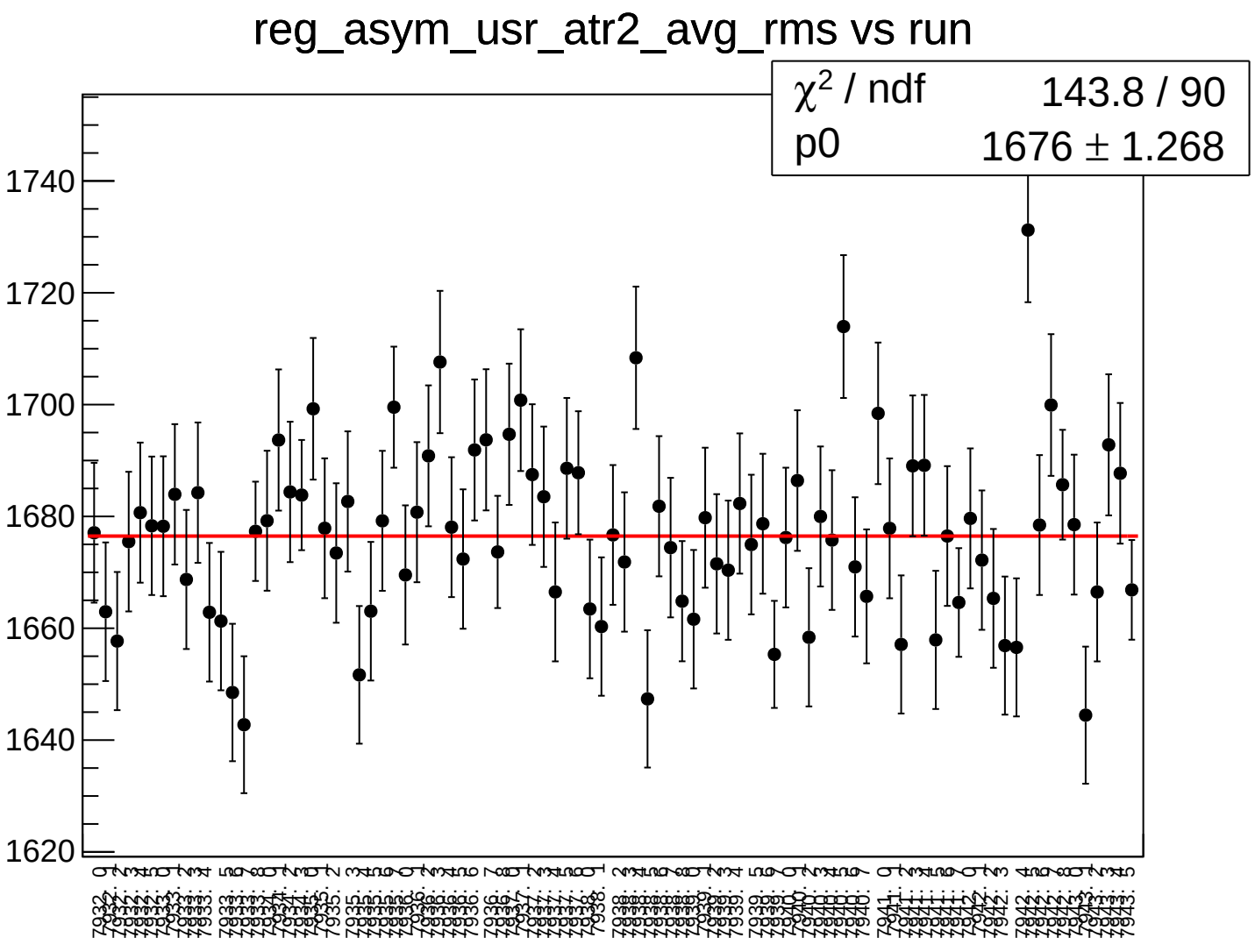

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.1 / 90
p0 −1.03e−13 ± 1.386e−13
pull
Entries 91
Mean 38.59
Std Dev 33.54

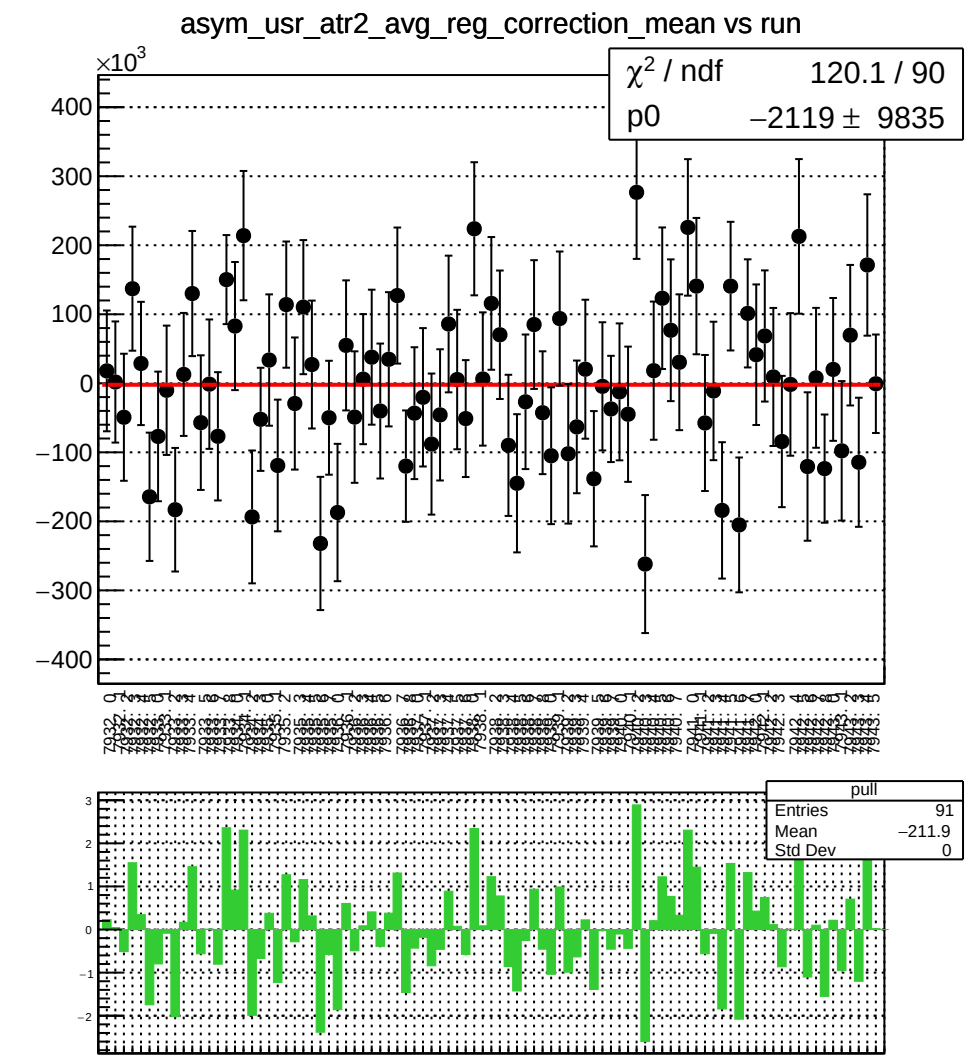

pull1D
Entries 91
Mean −0.05654
Std Dev 1.093

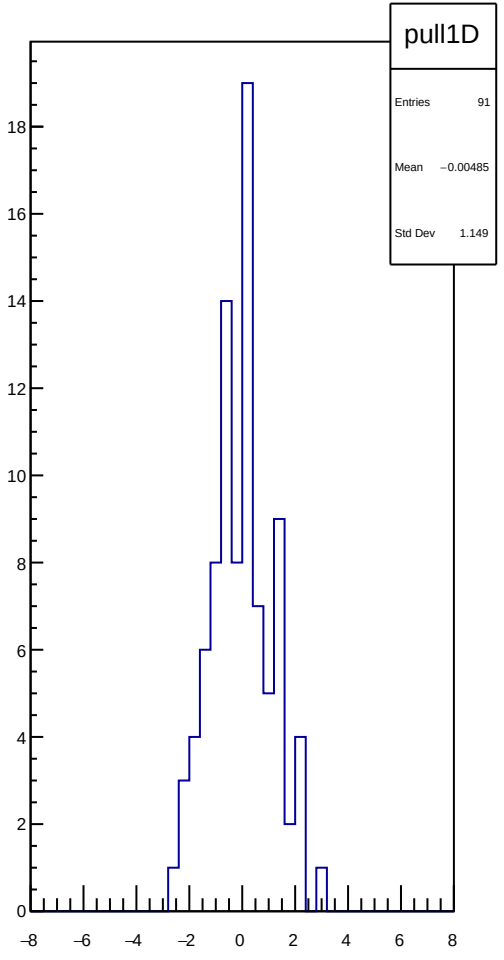

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.818e+05 / 90
p0 8.579e−11 ± 9.799e−14

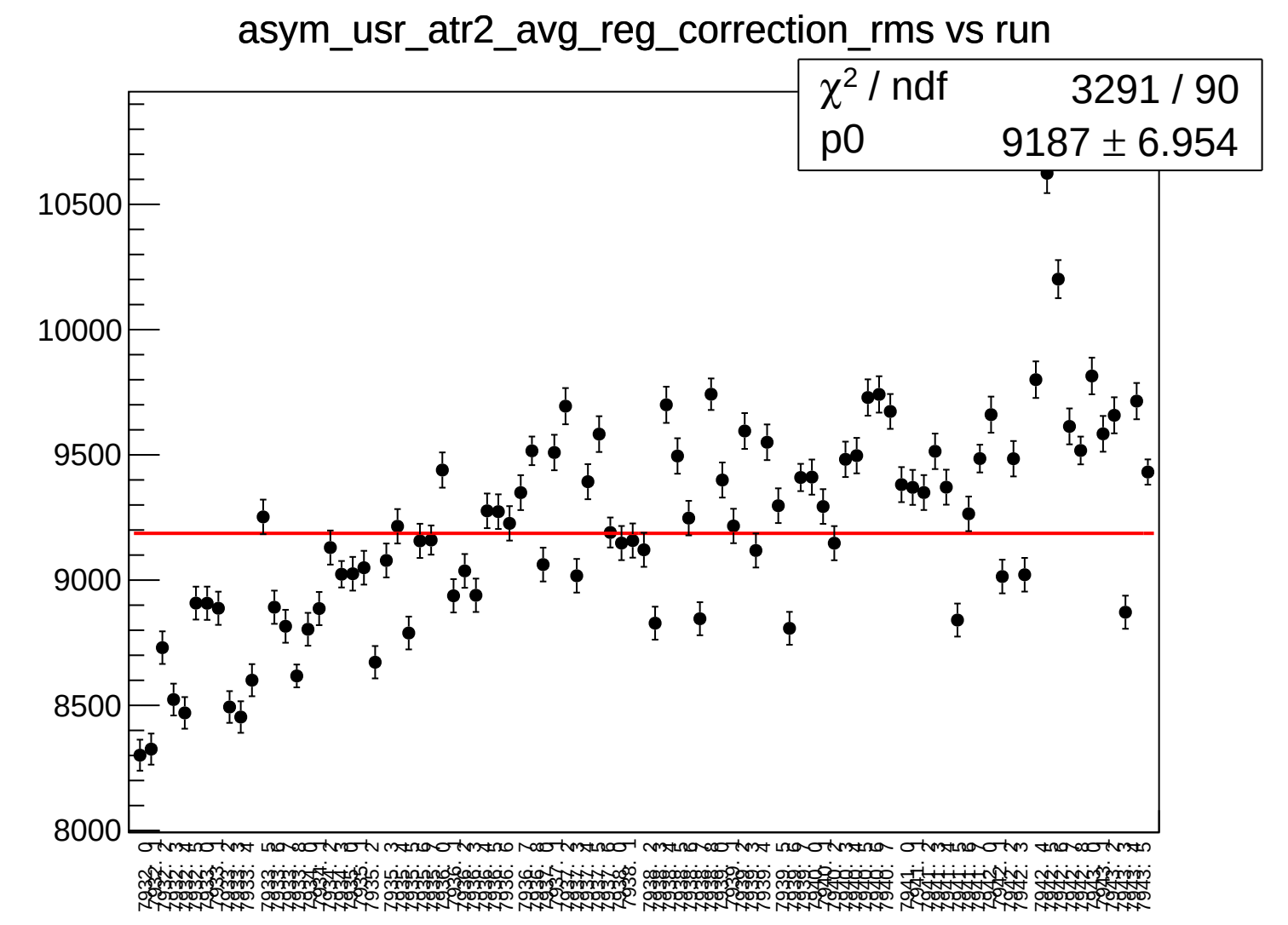

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.99 / 90
p0 96.4 ± 1793
pull
Entries 91
Mean −312.1
Std Dev 0

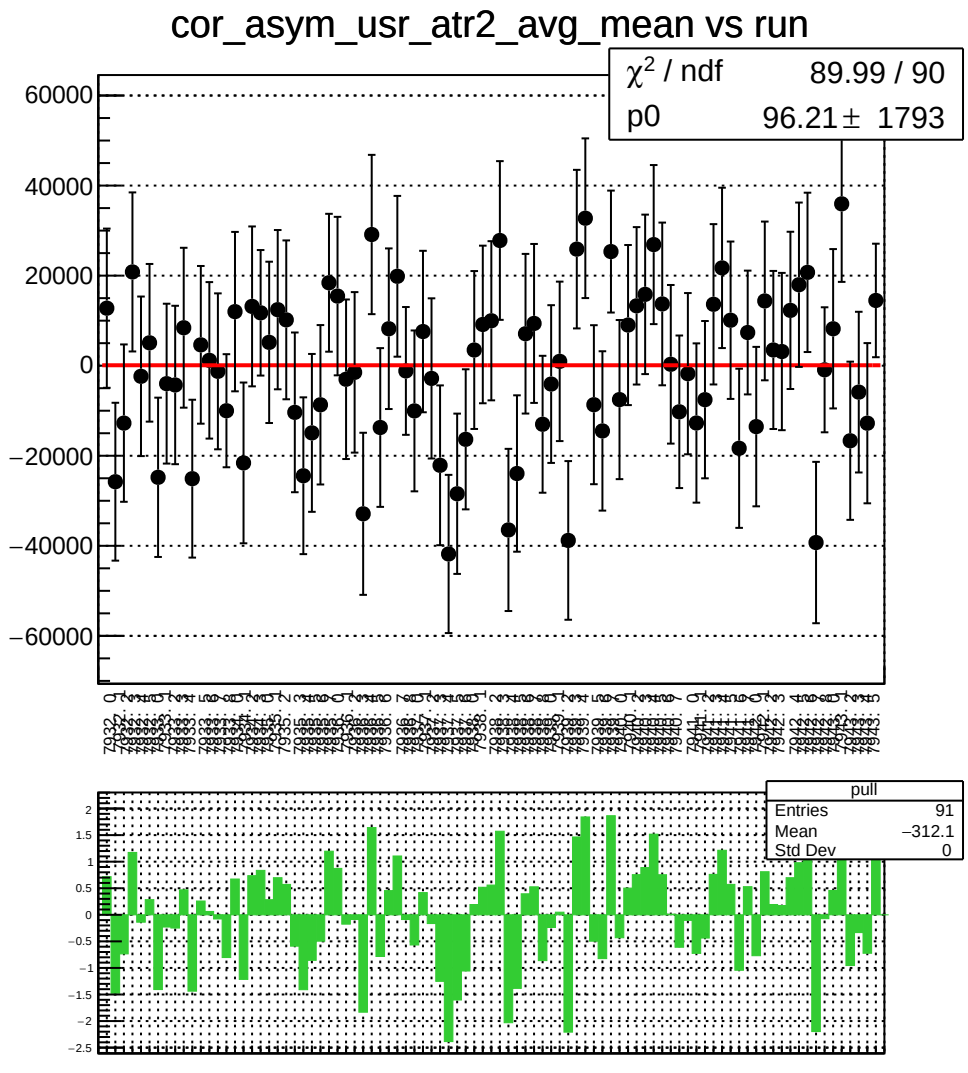

pull1D
Entries 91
Mean −0.01021
Std Dev 0.9944

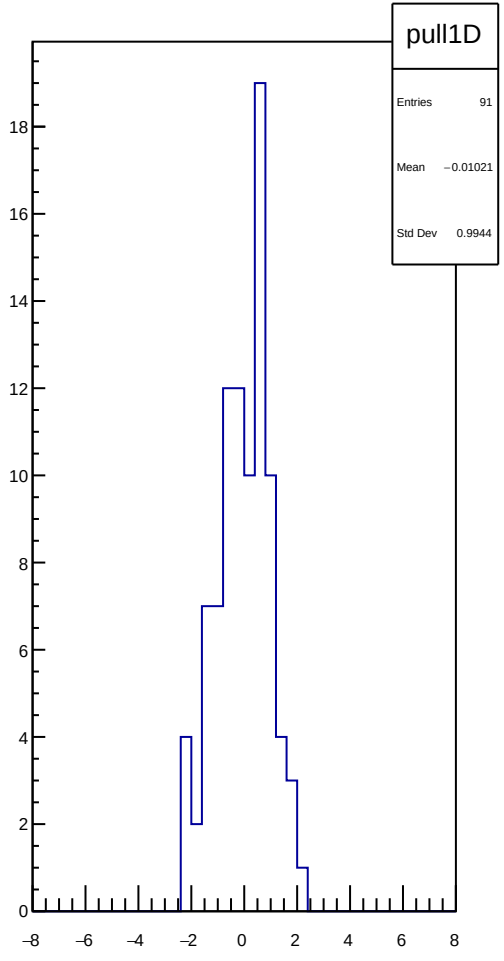

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 143.8 / 90
p0 1676 ± 1.268
1740
1720
1700
1680
1660
1640
1620

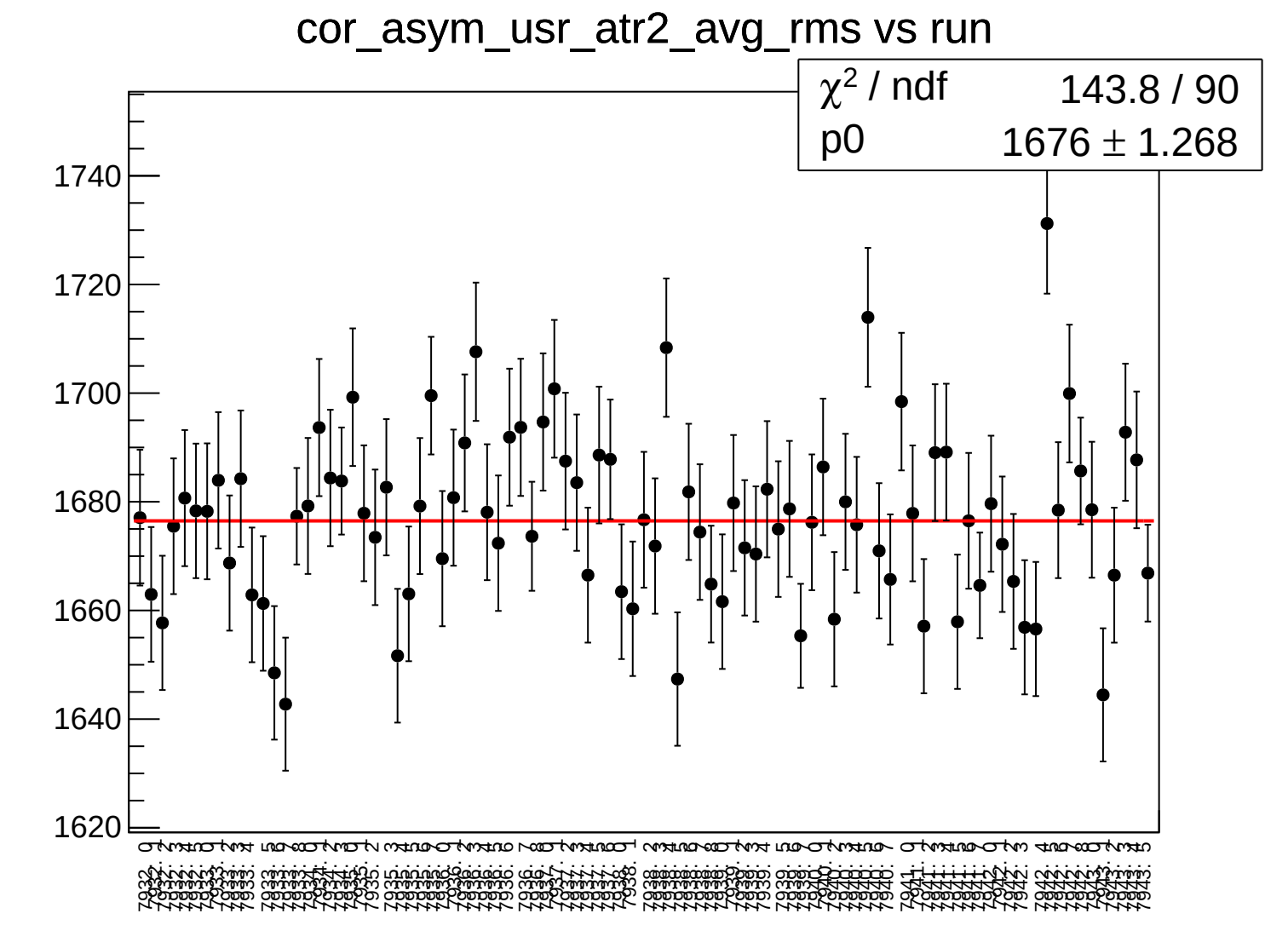

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −2119 ± 9835
pull
Entries 91
Mean −211.9
Std Dev 0

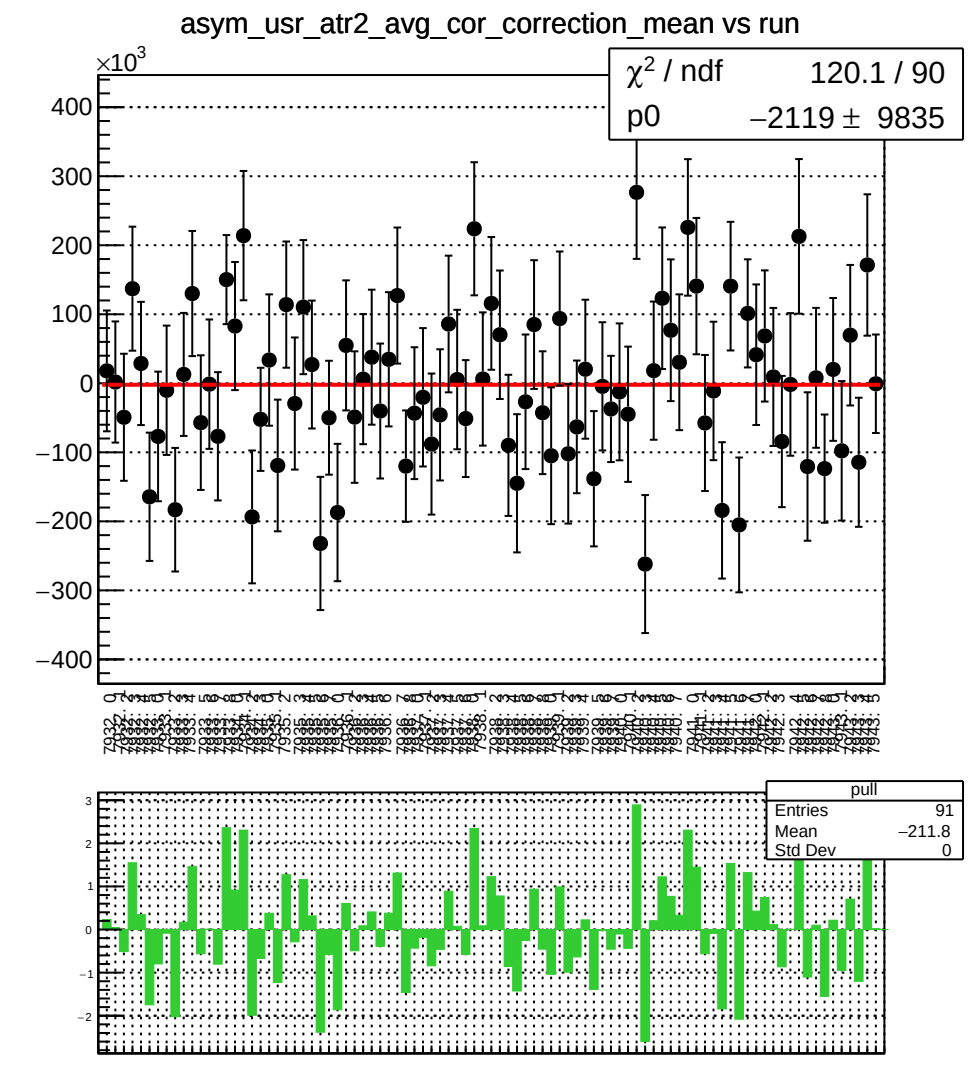

pull1D
Entries 91
Mean −0.00485
Std Dev 1.149

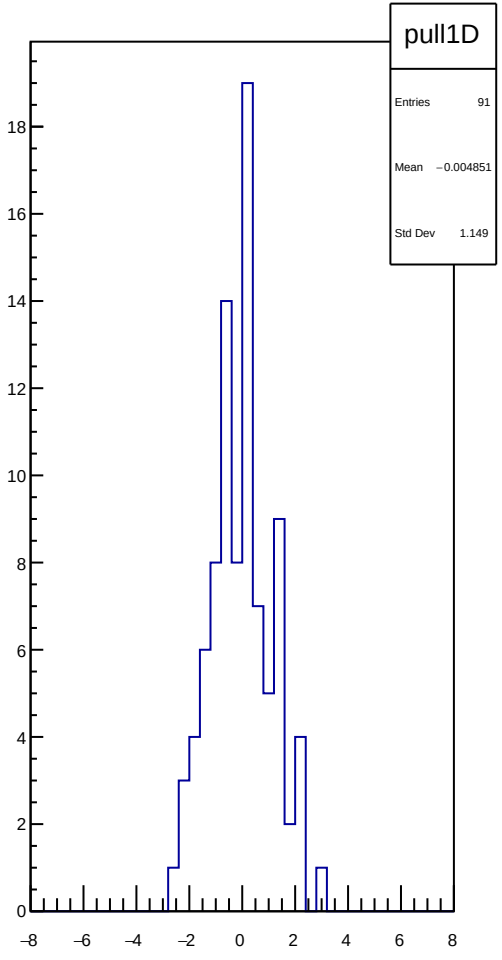

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3291 / 90
p0 9187 ± 6.954
10500
10000
9500
9000
8500
8000

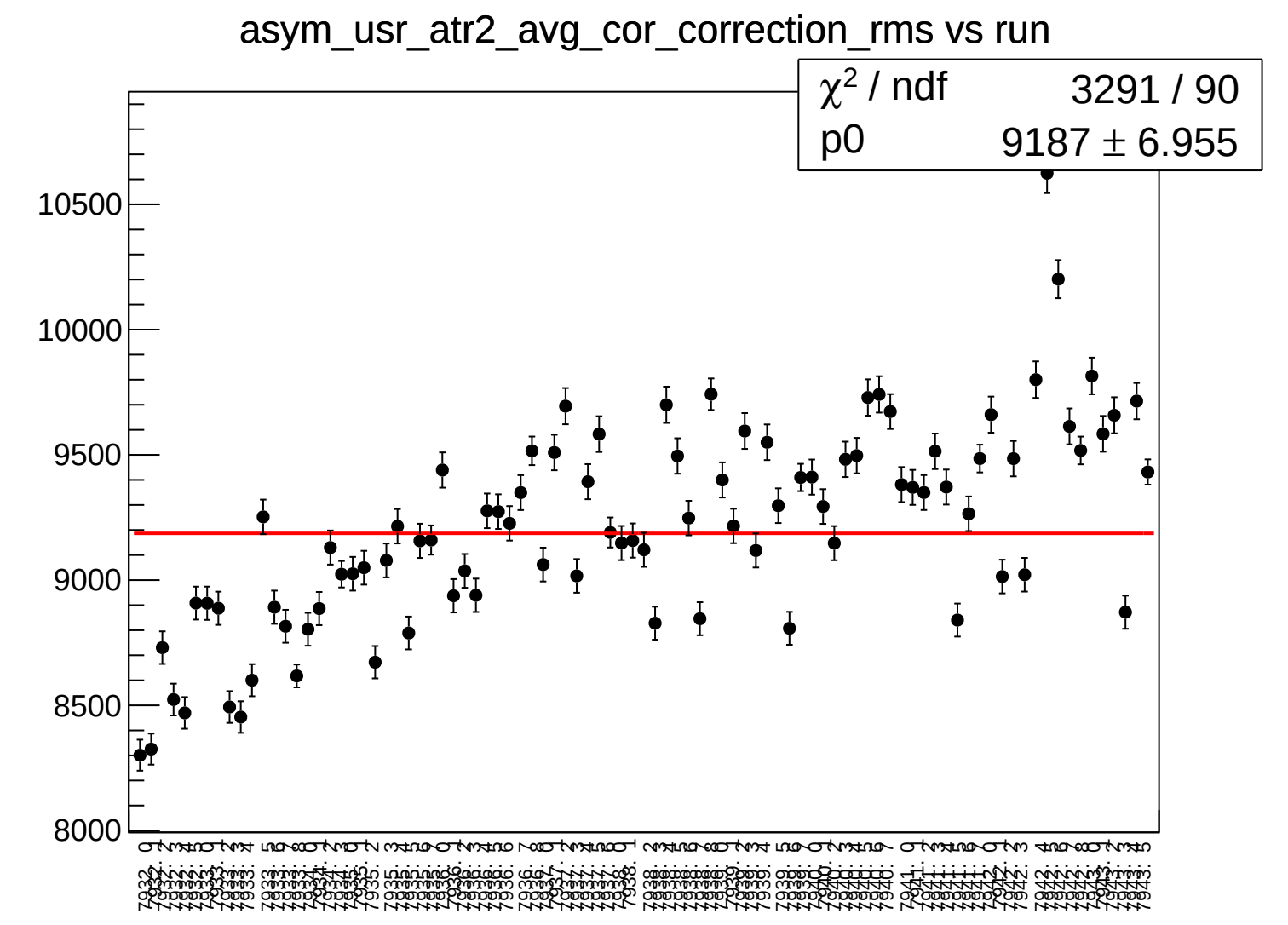

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.99 / 90
p0 96.21 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −312.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

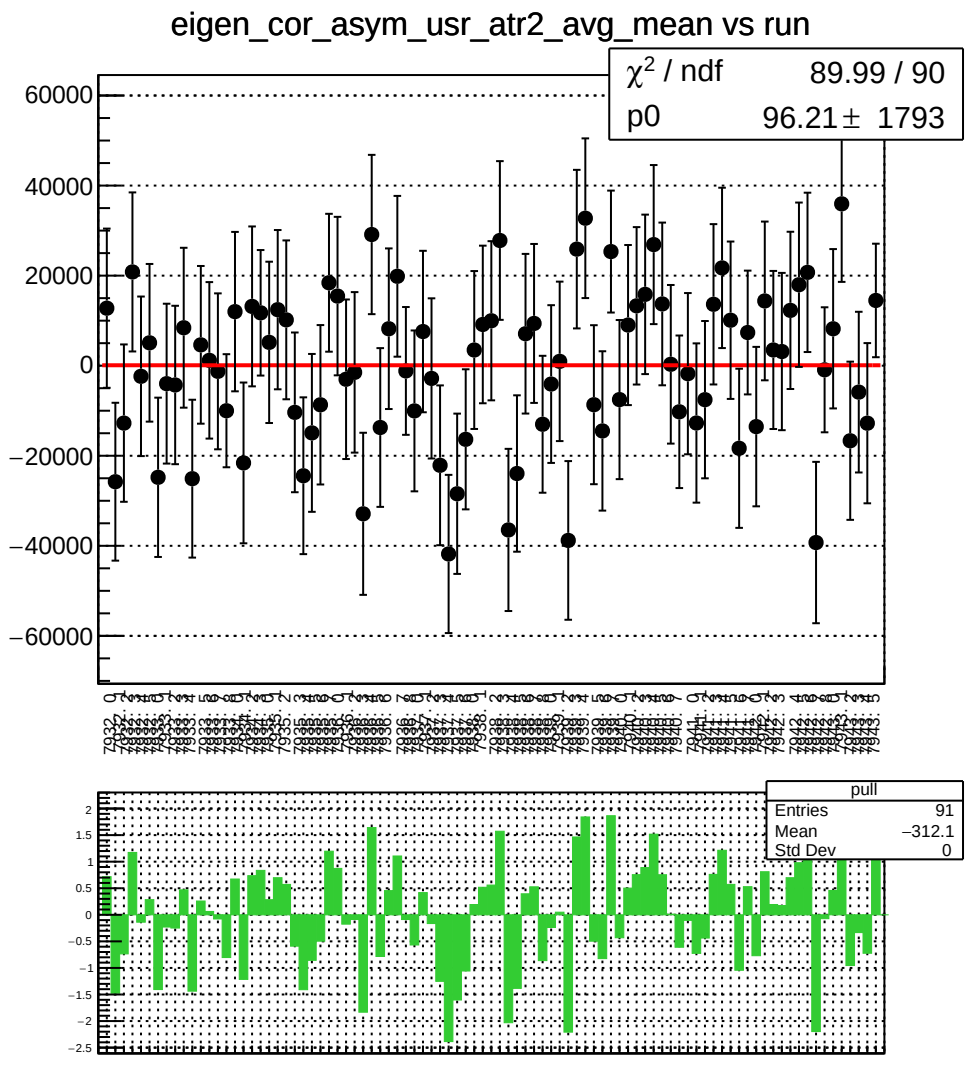

pull1D
Entries 91
Mean −0.01021
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

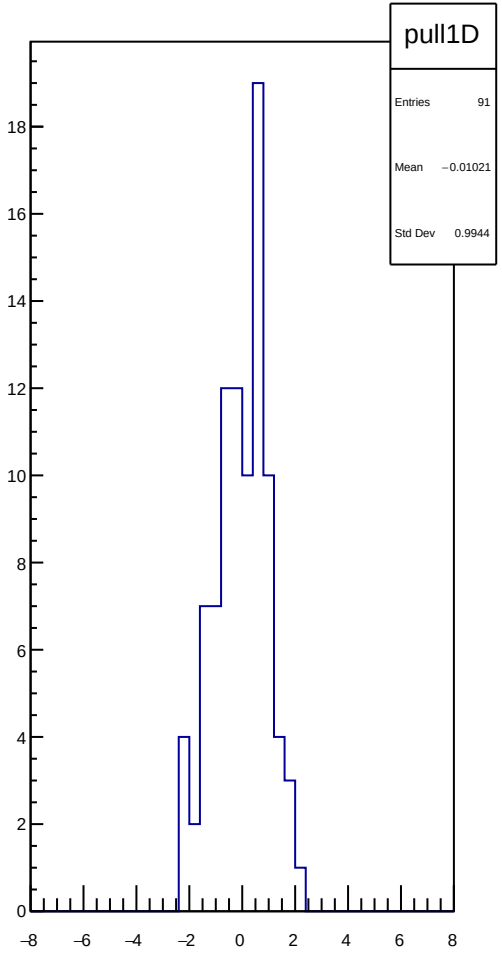

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 143.8 / 90
p0 1676 ± 1.268
1740
1720
1700
1680
1660
1640
1620

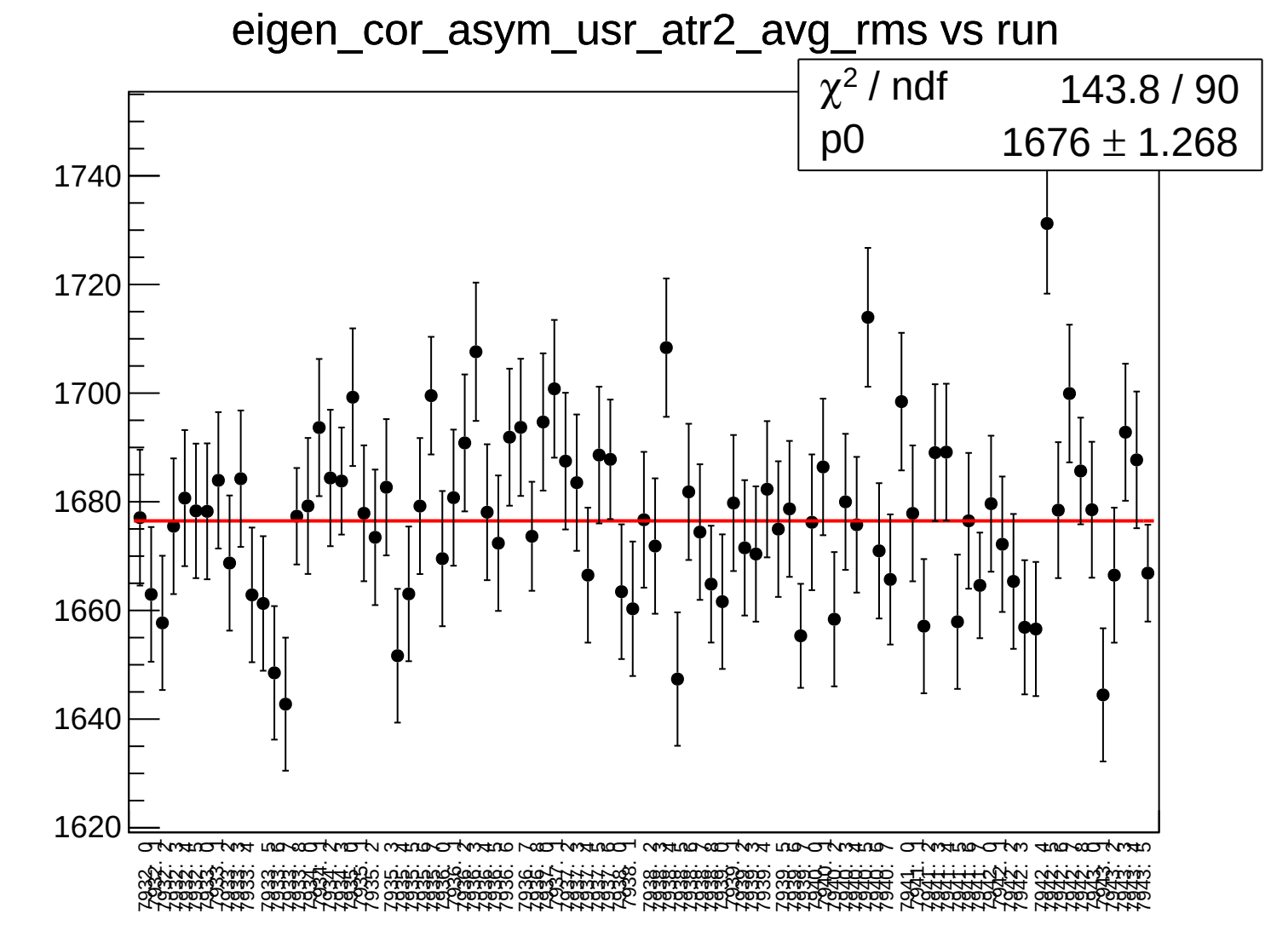

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −2119 ± 9835
pull
Entries 91
Mean −211.8
Std Dev 0

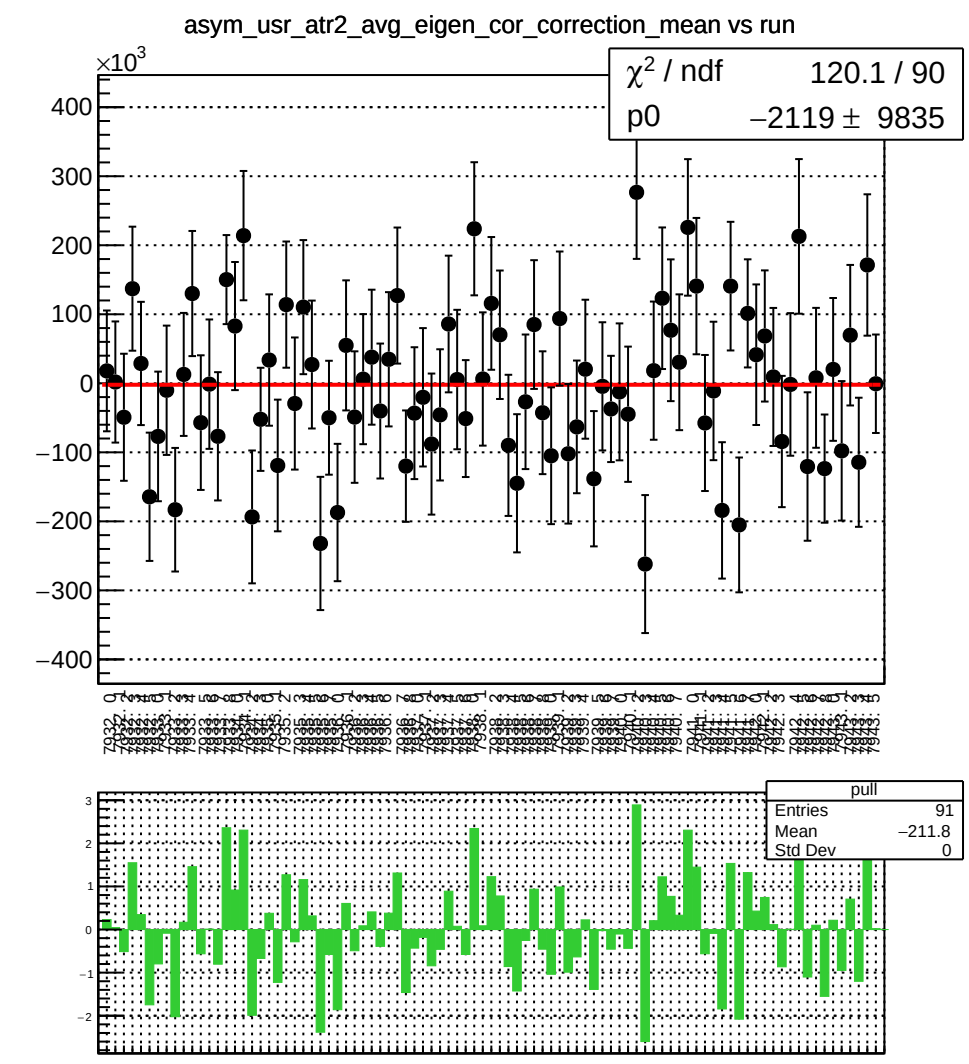

pull1D
Entries 91
Mean −0.004851
Std Dev 1.149

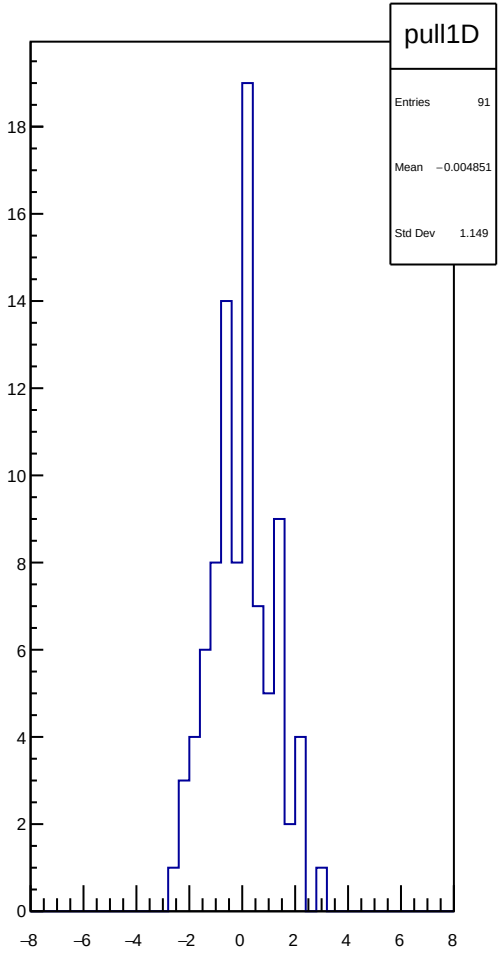

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 3291 / 90
p0 9187 ± 6.955
10500
10000
9500
9000
8500
8000

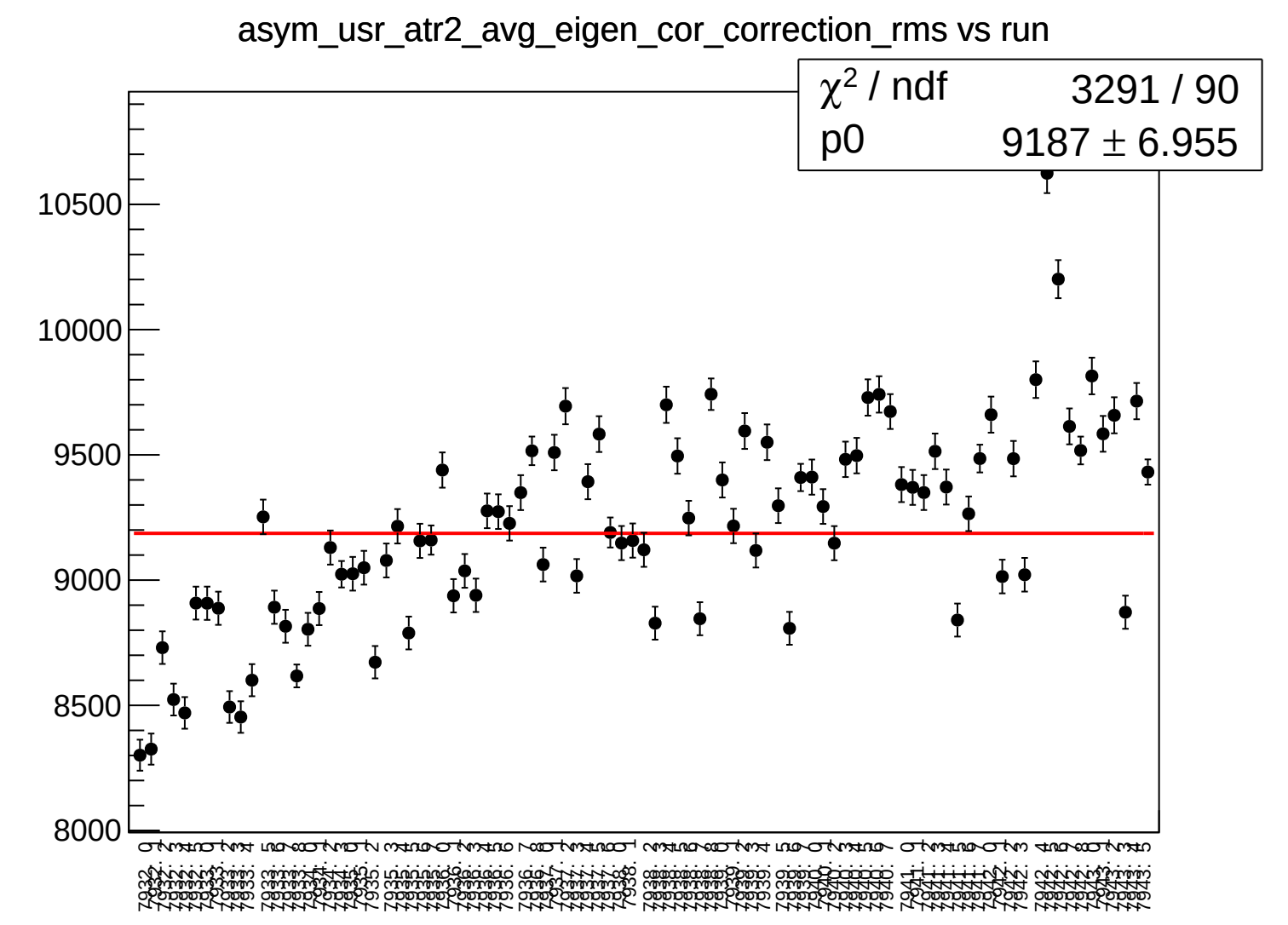

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.99 / 90
p0 96.21 ± 1793
pull
Entries 91
Mean −312.1
Std Dev 0

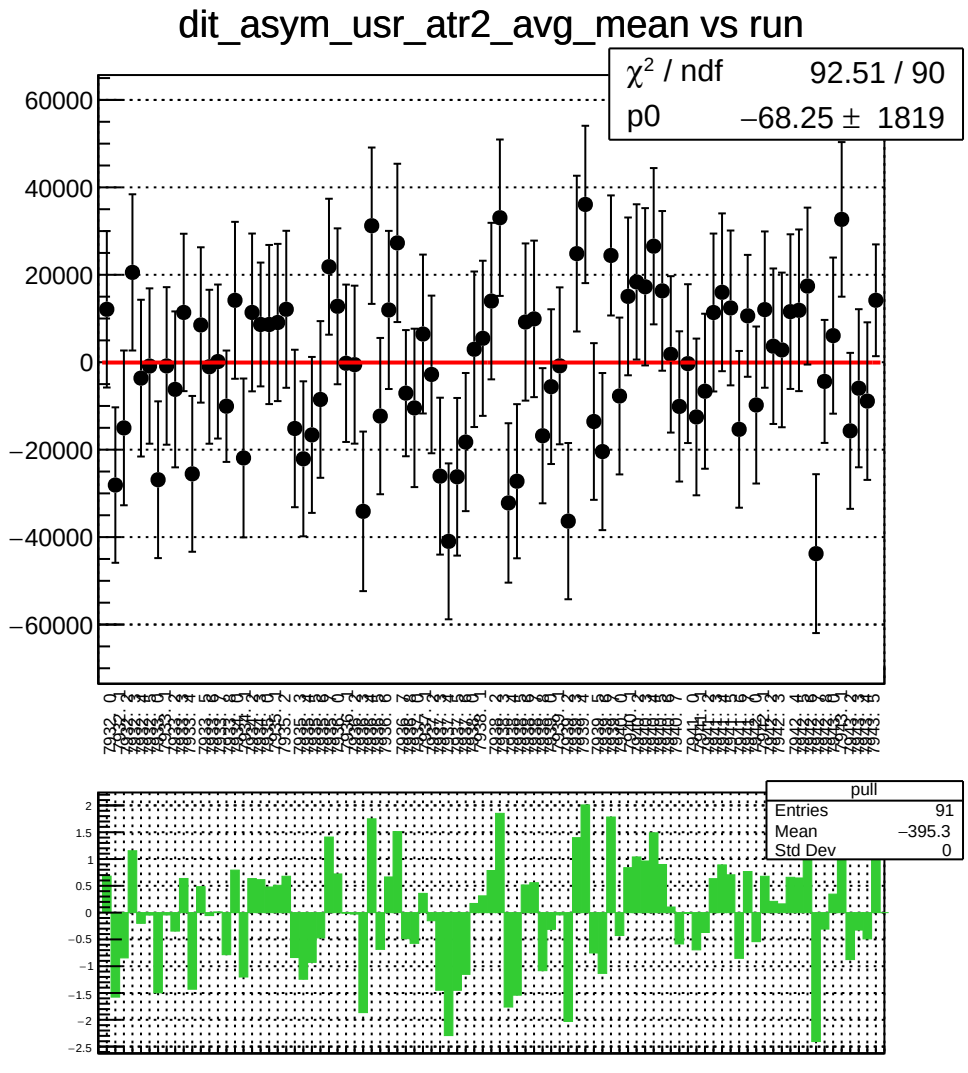

pull1D
Entries 91
Mean −0.01021
Std Dev 0.9944

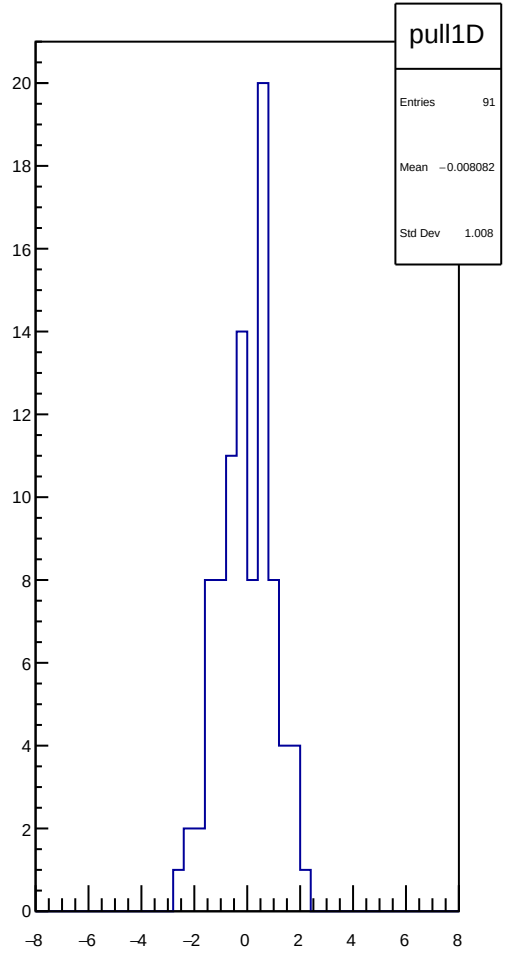

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 143.8 / 90
p0 1676 ± 1.268
1740
1720
1700
1680
1660
1640
1620

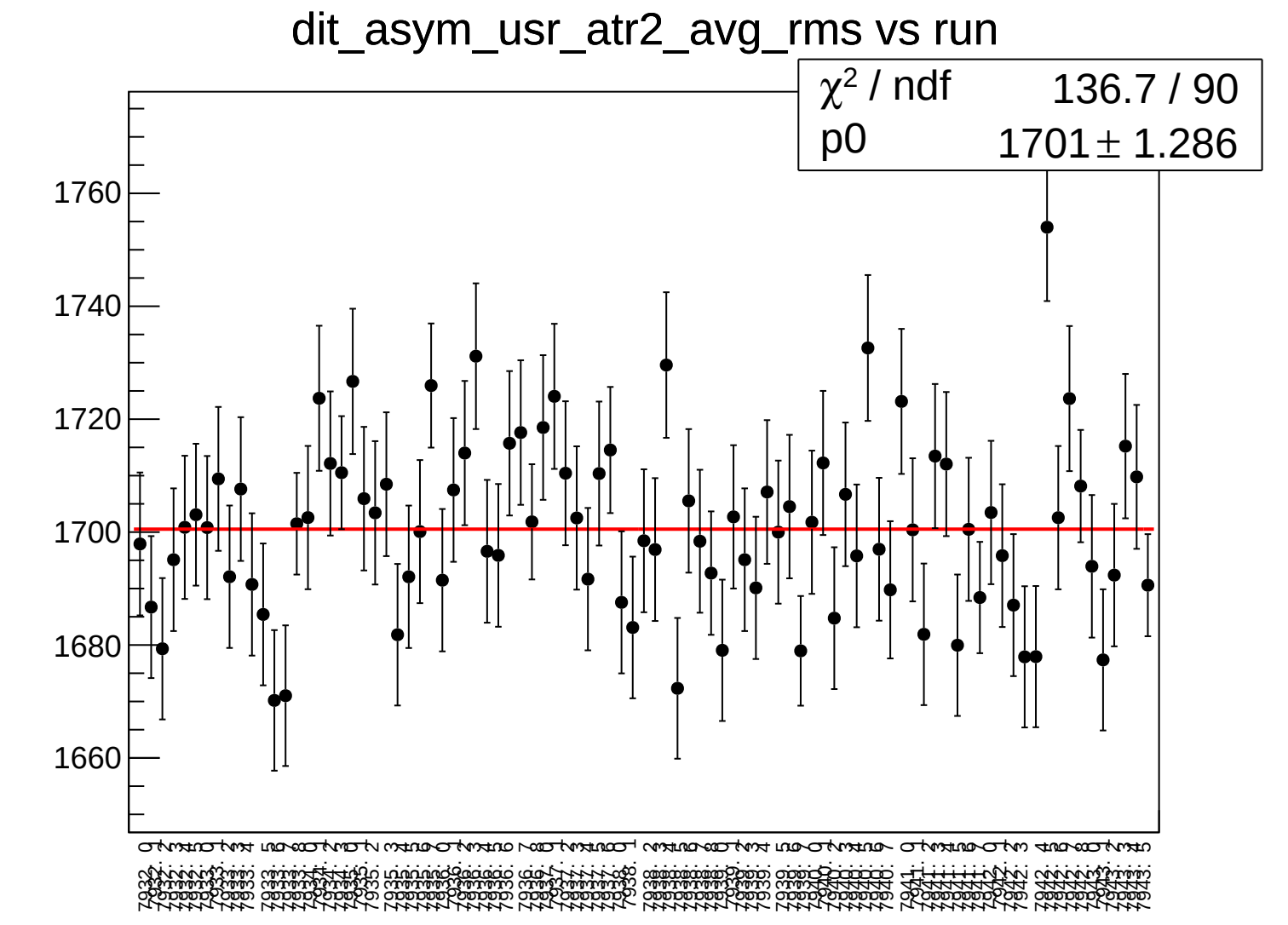

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 120.1 / 90
p0 −2119 ± 9835
pull
Entries 91
Mean −211.8
Std Dev 0

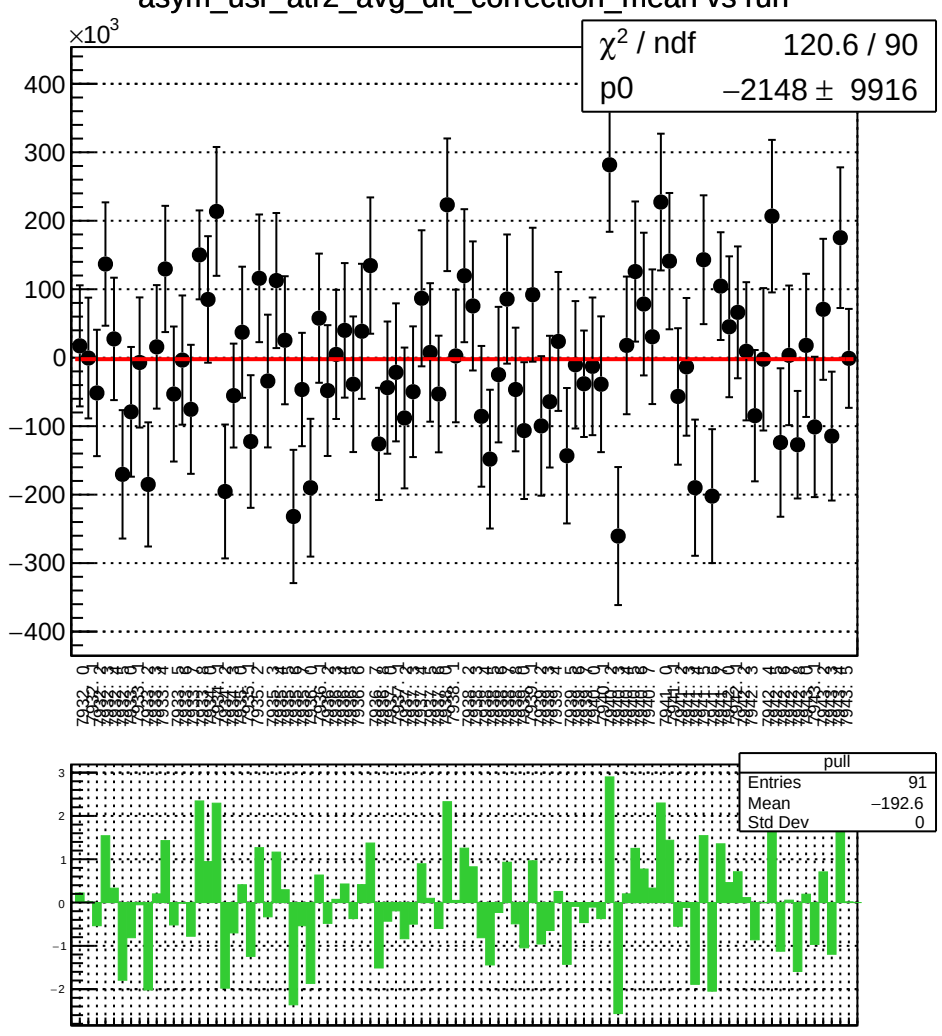

pull1D
Entries 91
Mean −0.004851
Std Dev 1.149

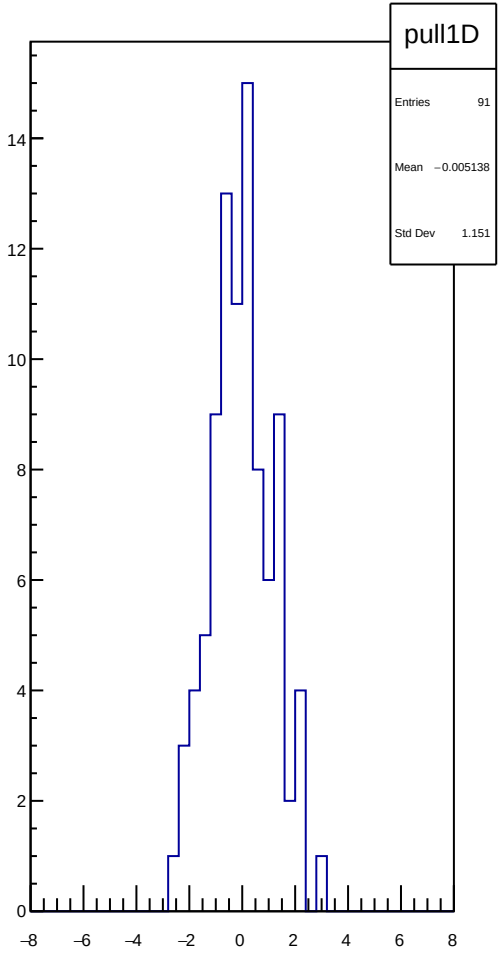

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3291 / 90
p0 9187 ± 6.955
10500
10000
9500
9000
8500
8000

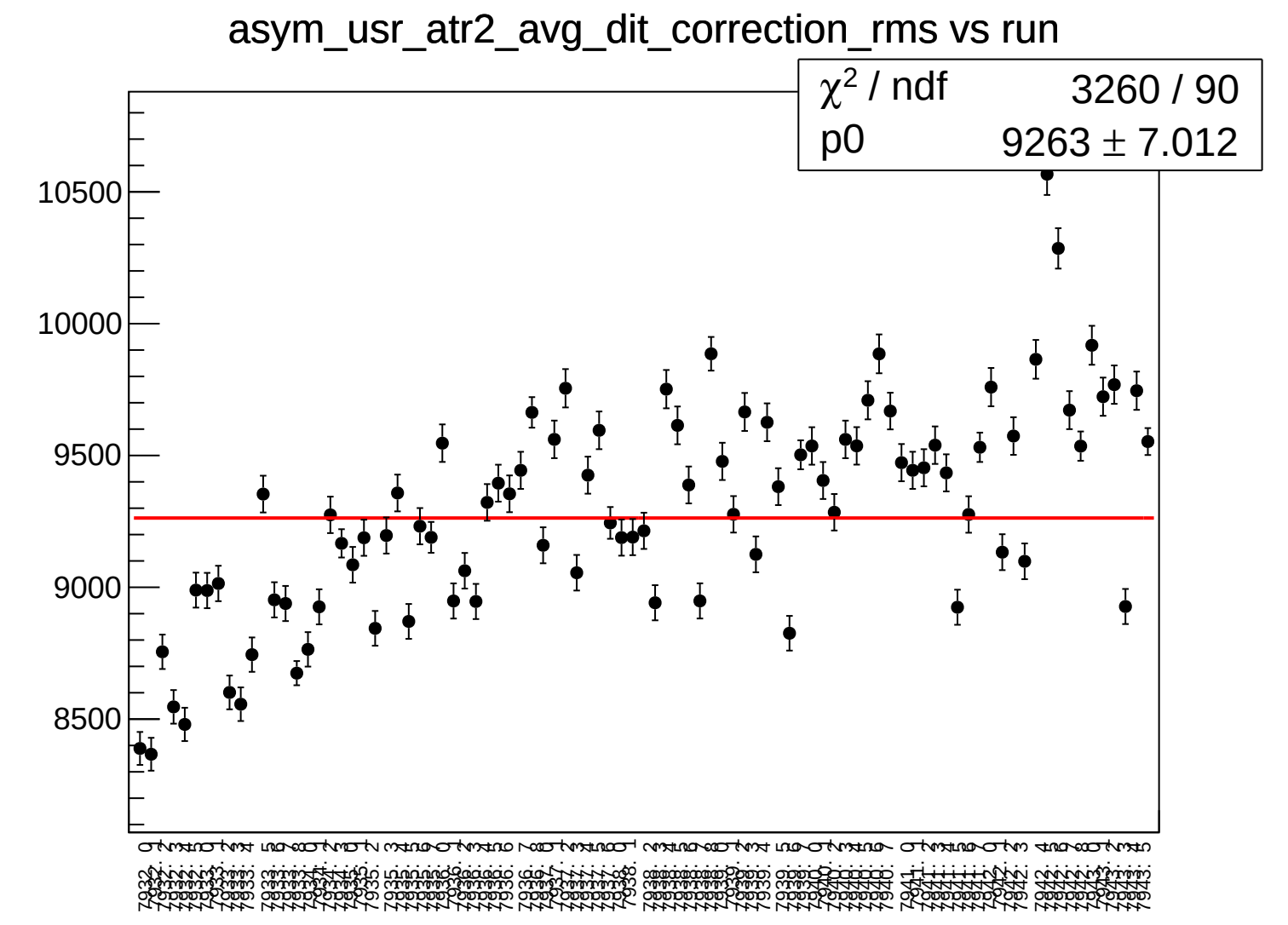

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.51 / 90
p0 −68.25 ± 1819
pull
Entries 91
Mean −395.3
Std Dev 0

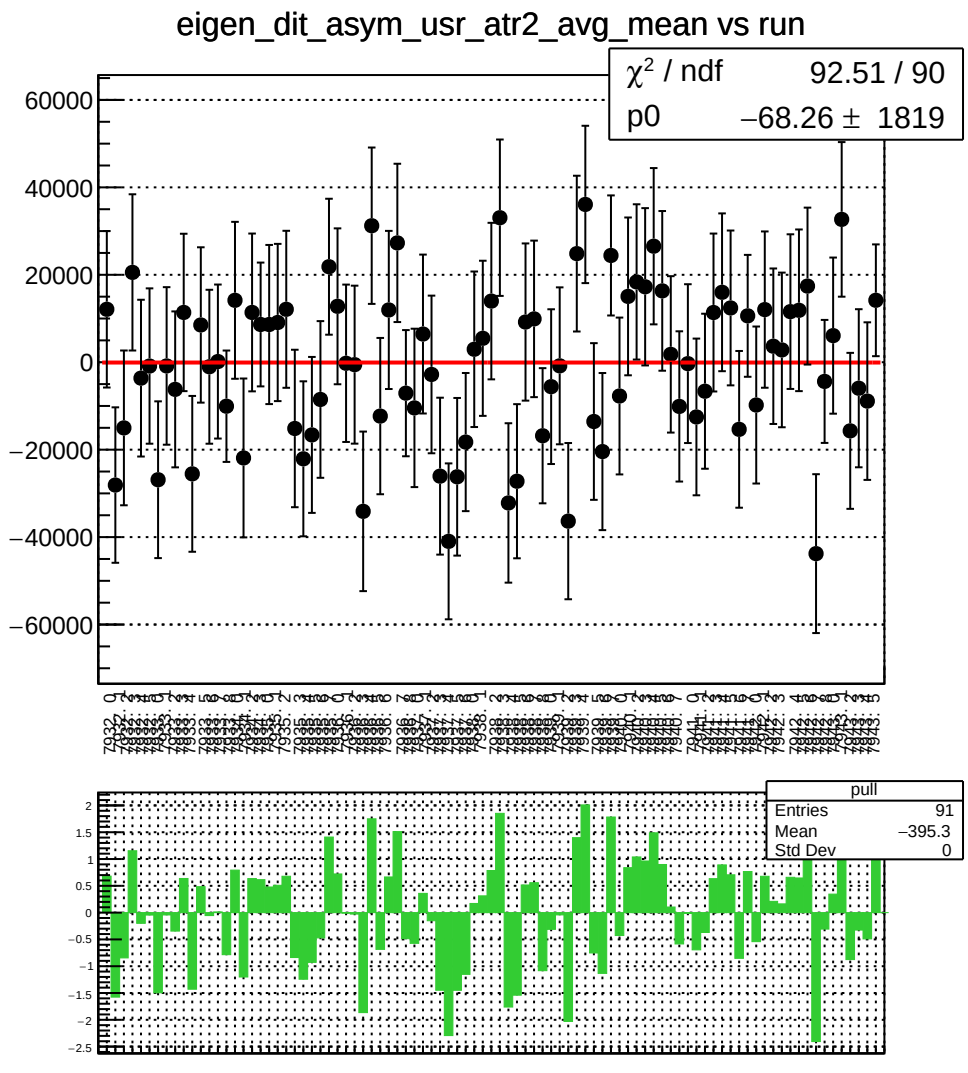

pull1D
Entries 91
Mean −0.008082
Std Dev 1.008

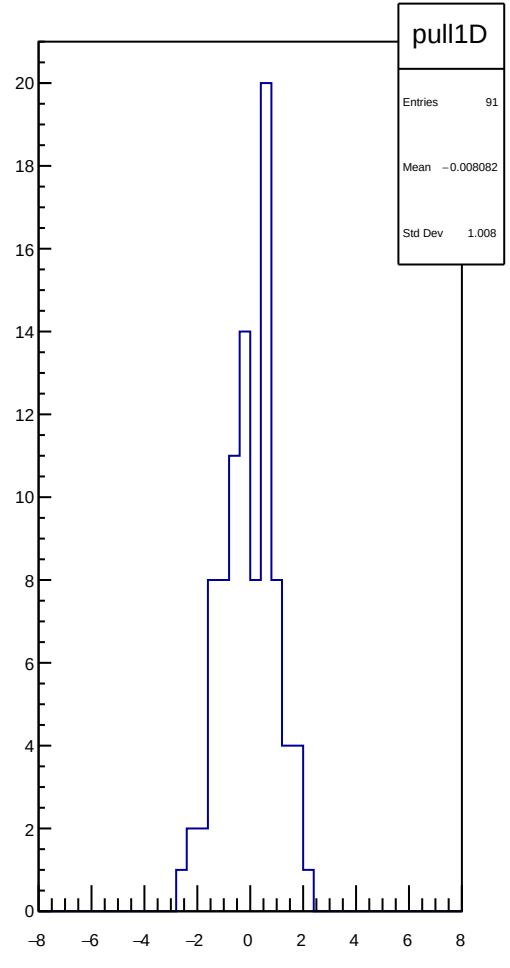

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 136.7 / 90
p0 1701 ± 1.286
1760
1740
1720
1700
1680
1660

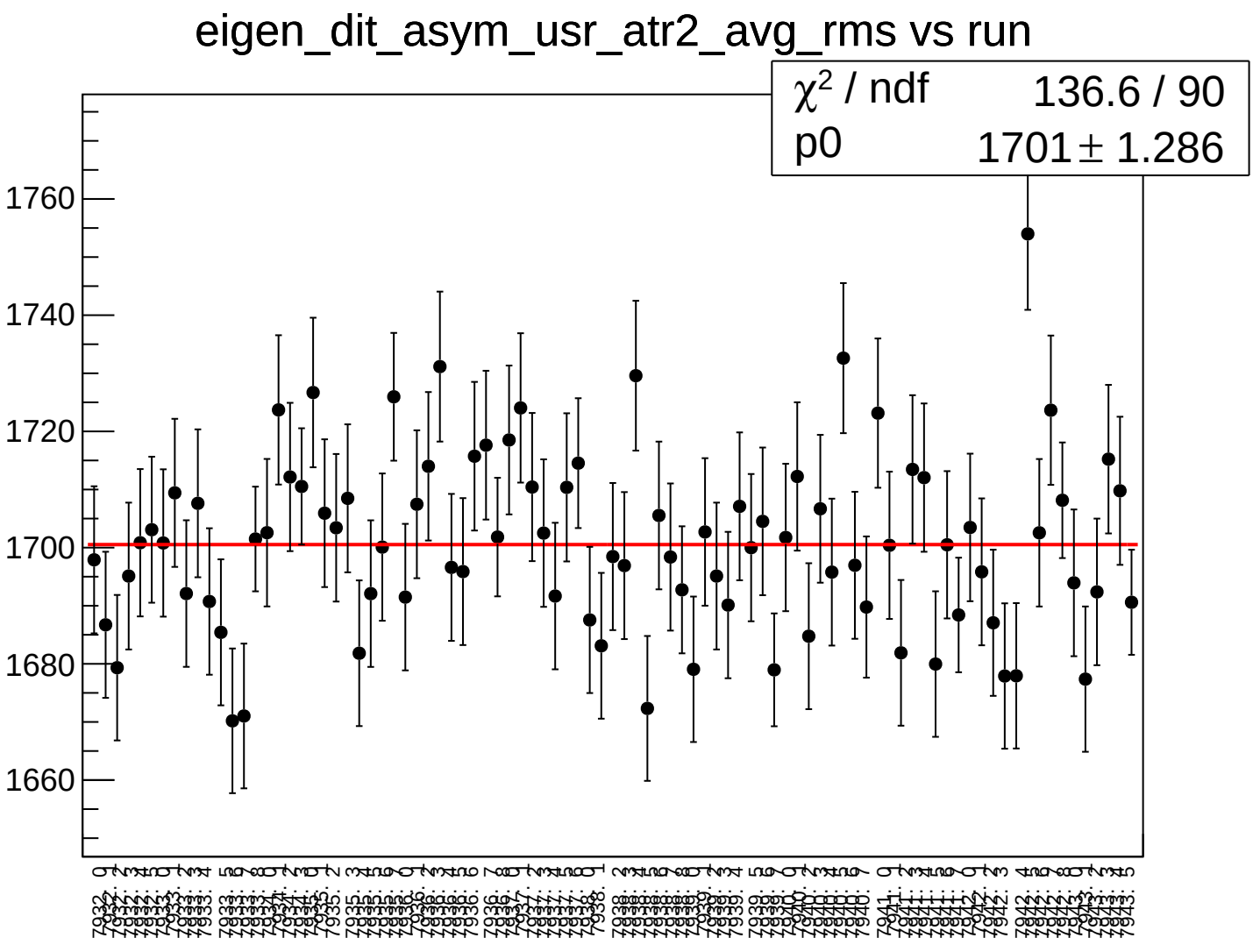

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 120.6 / 90
p0 −2148 ± 9916
pull
Entries 91
Mean −192.6
Std Dev 0

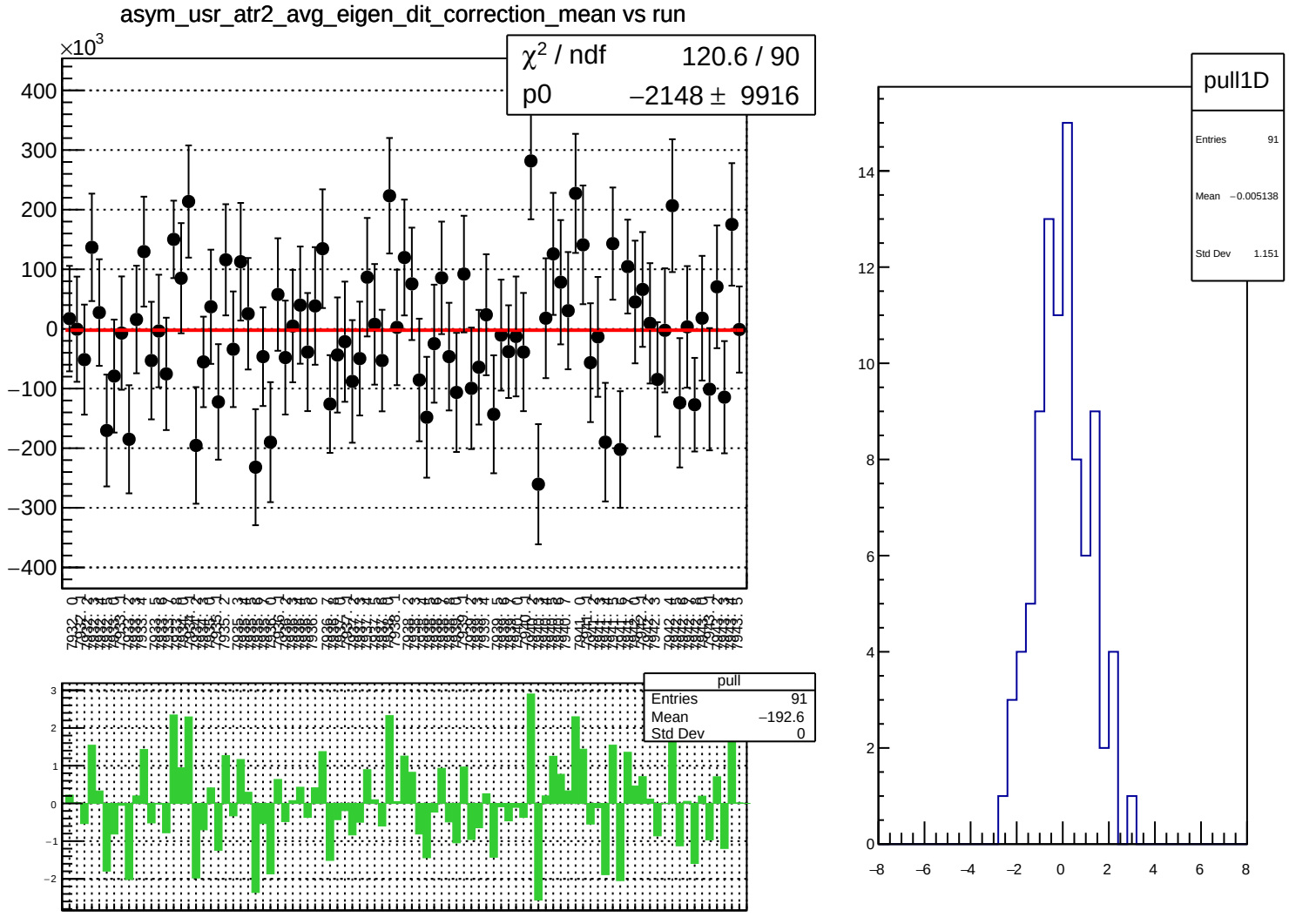

pull1D
Entries 91
Mean −0.005138
Std Dev 1.151

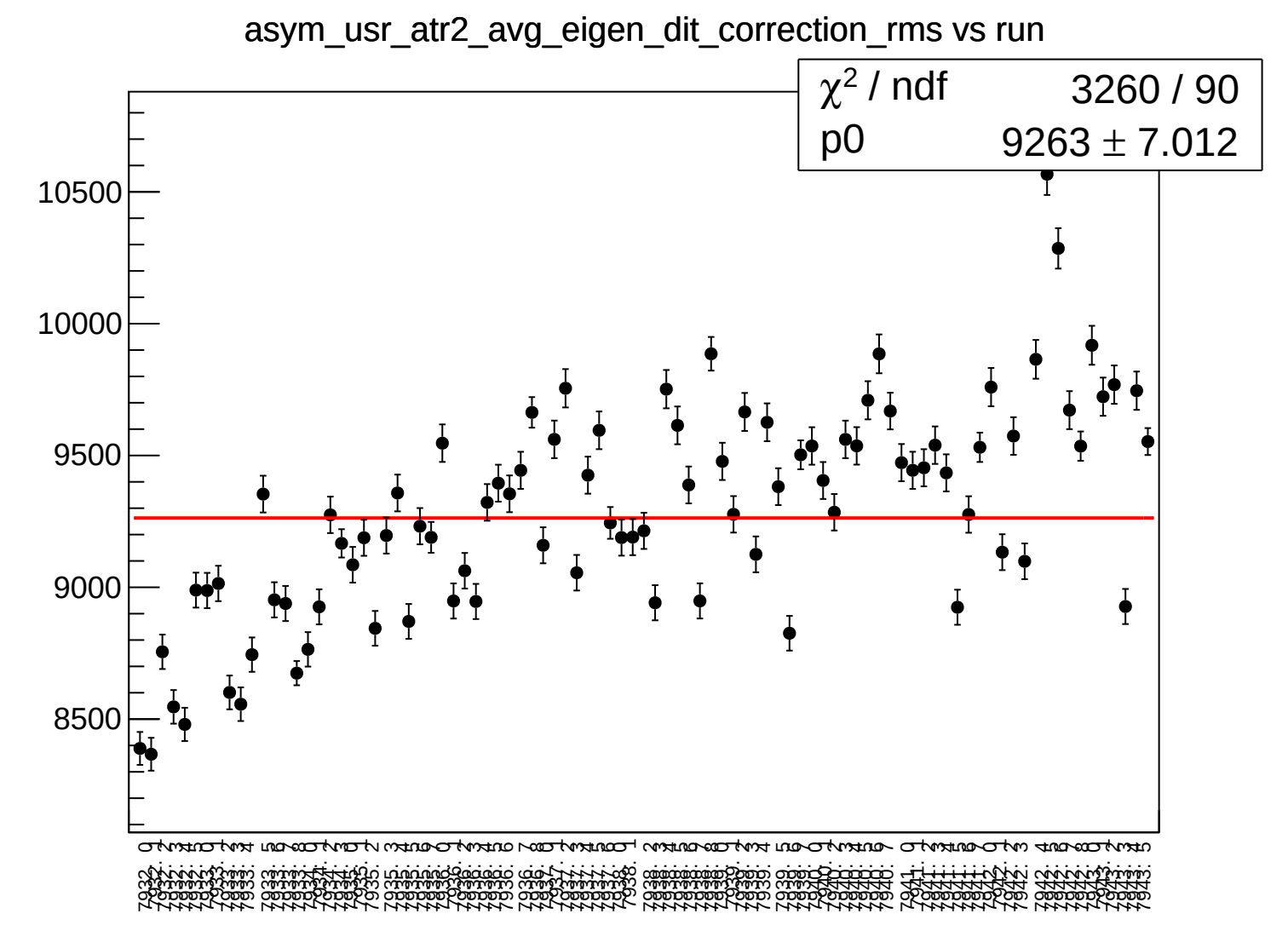

asym_usr_atr2_avg_dit_correction_rms vs run
χ^2 / ndf 3260 / 90
p0 9263 ± 7.012
10500
10000
9500
9000
8500

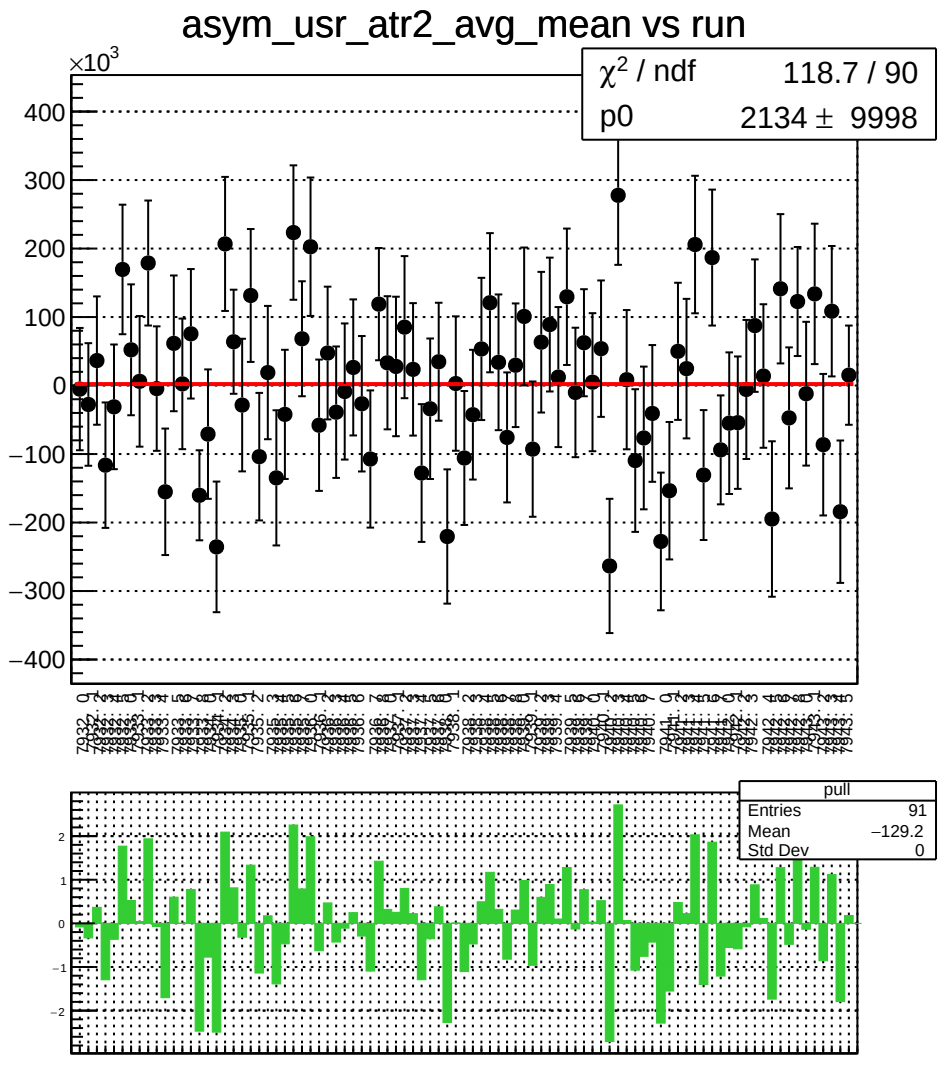

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.51 / 90
p0 −68.26 ± 1819
pull
Entries 91
Mean −395.3
Std Dev 0

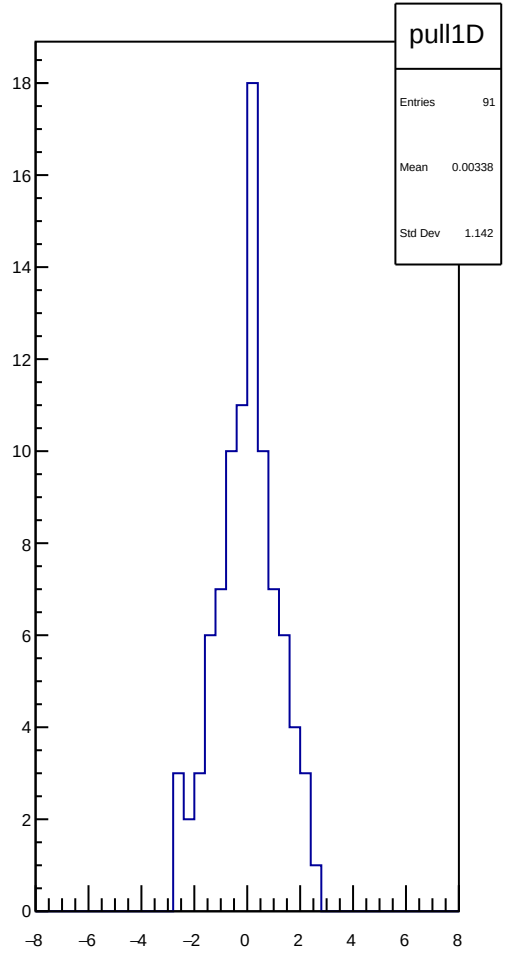

pull1D
Entries 91
Mean −0.008082
Std Dev 1.008

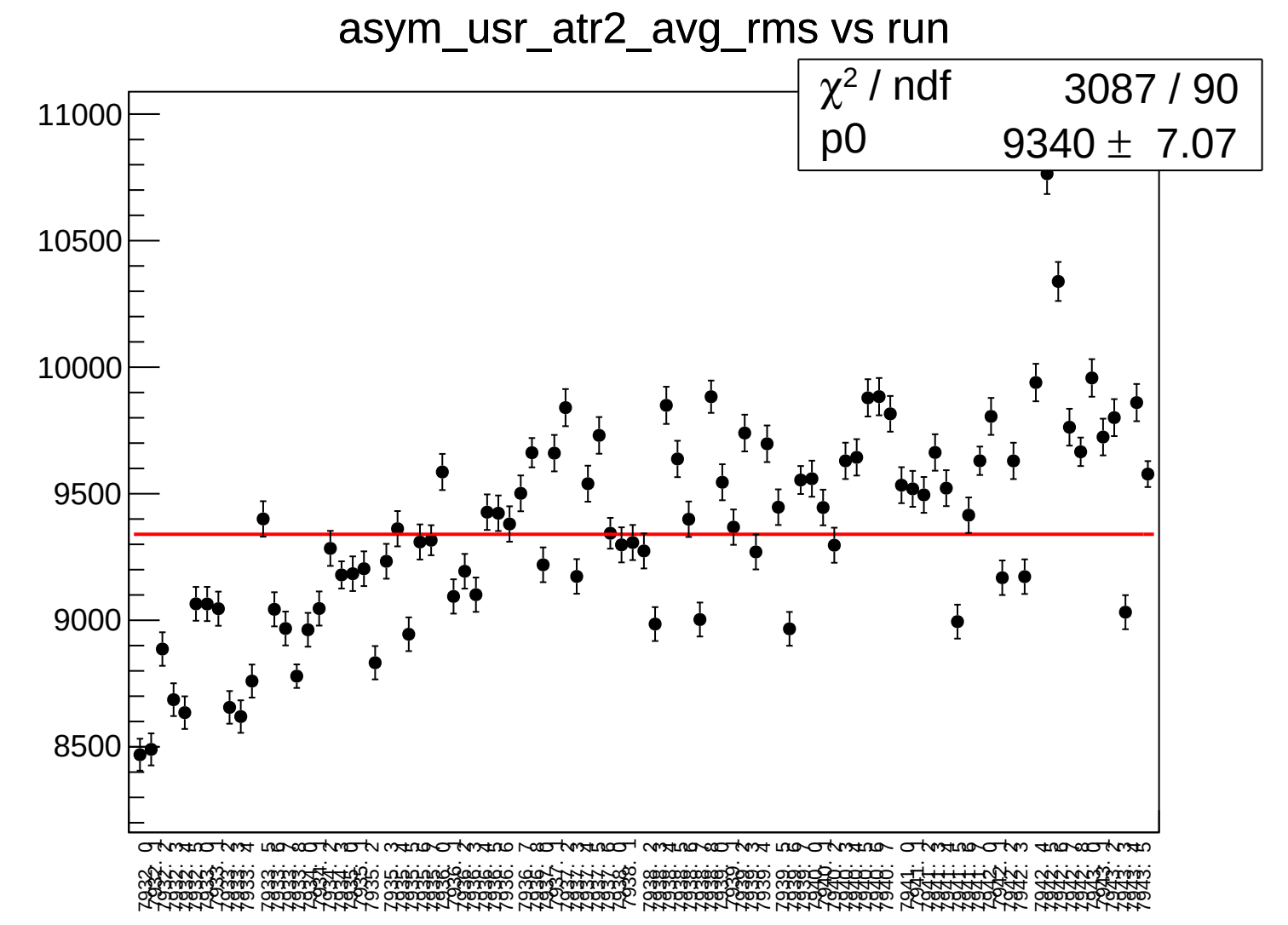

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 136.6 / 90
p0 1701 ± 1.286
1760
1740
1720
1700
1680
1660

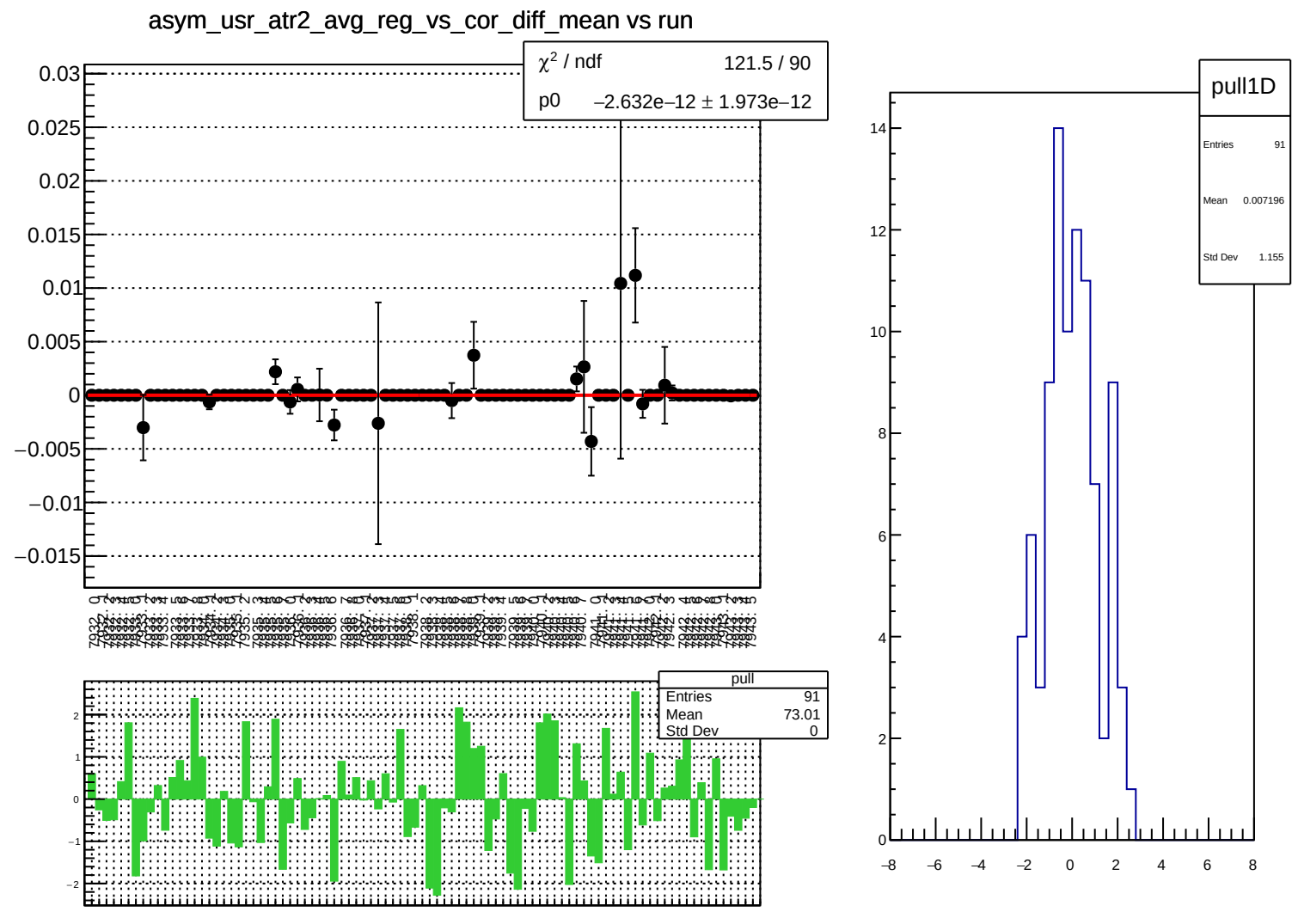

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 120.6 / 90
p0 −2148 ± 9916
pull
Entries 91
Mean −192.6
Std Dev 0
pull1D
Entries 91
Mean −0.005138
Std Dev 1.151

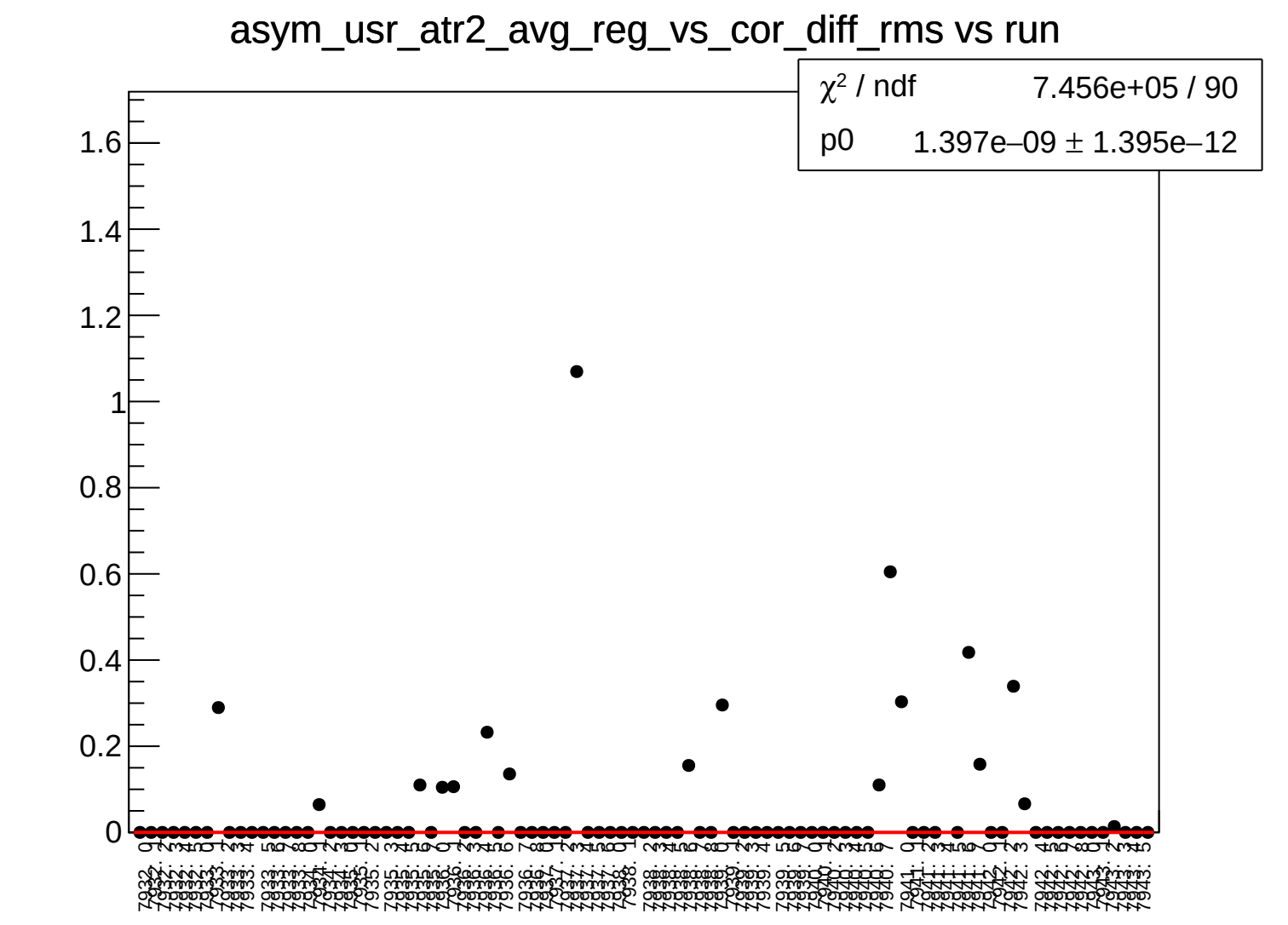

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3260 / 90
p0 9263 ± 7.012
10500
10000
9500
9000
8500

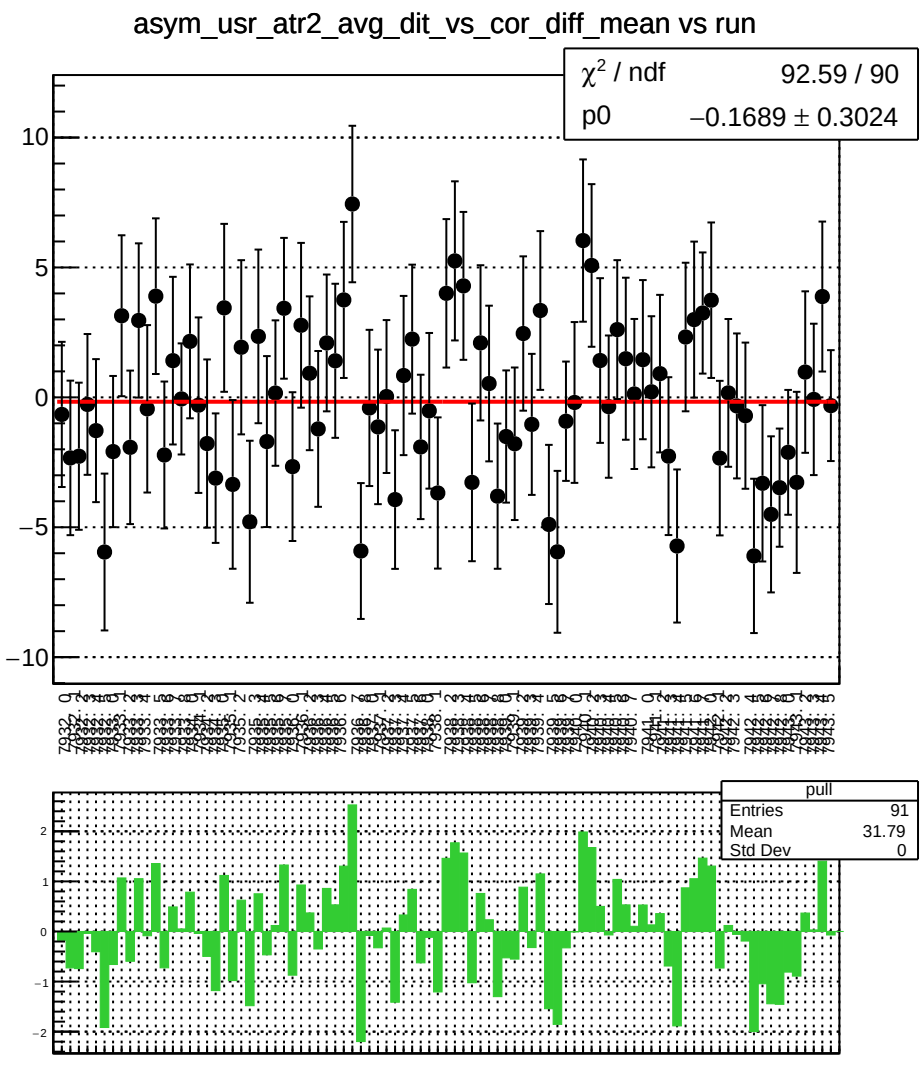

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 118.7 / 90
p0 2134 ± 9998
pull
Entries 91
Mean −129.2
Std Dev 0

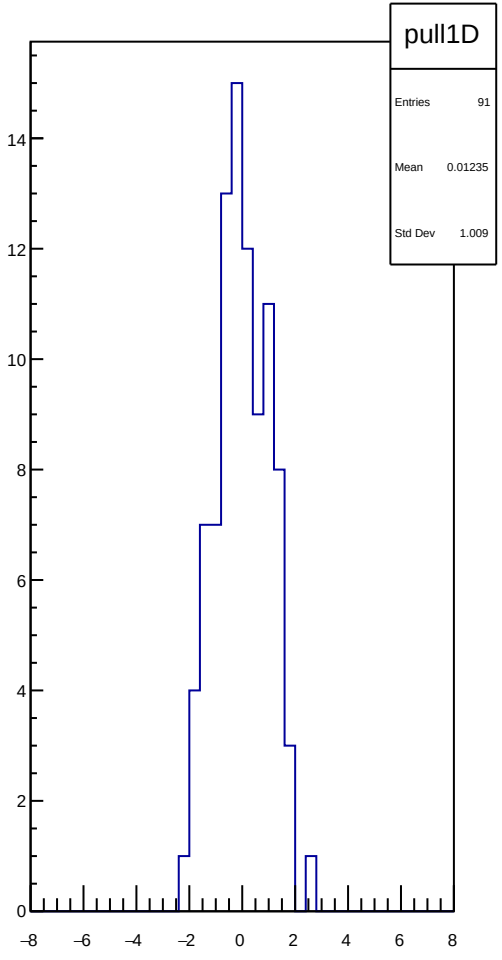

pull1D
Entries 91
Mean 0.00338
Std Dev 1.142

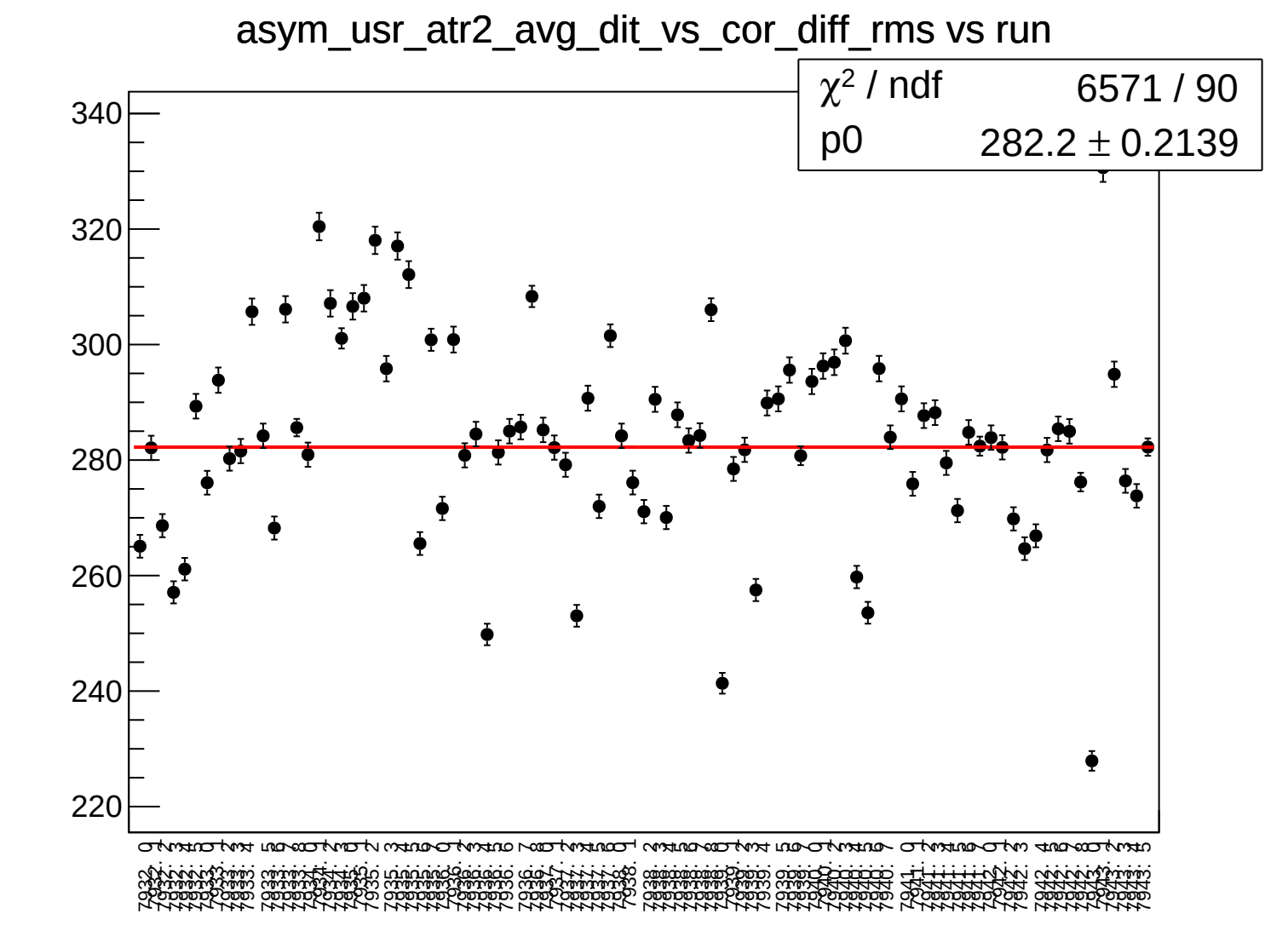

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 3087 / 90
p0 9340 ± 7.07
11000
10500
10000
9500
9000
8500

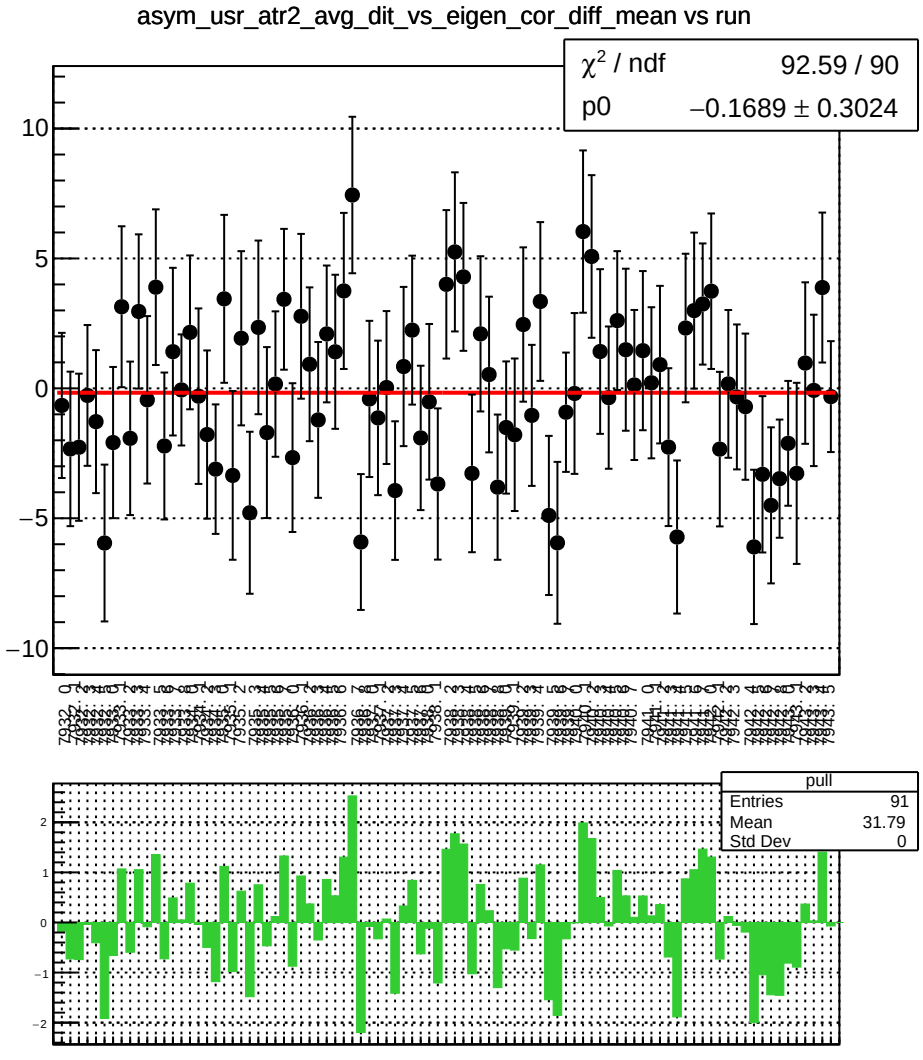

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 121.5 / 90
p0 −2.632e−12 ± 1.973e−12
pull
Entries 91
Mean 73.01
Std Dev 0
pull1D
Entries 91
Mean 0.007196
Std Dev 1.155

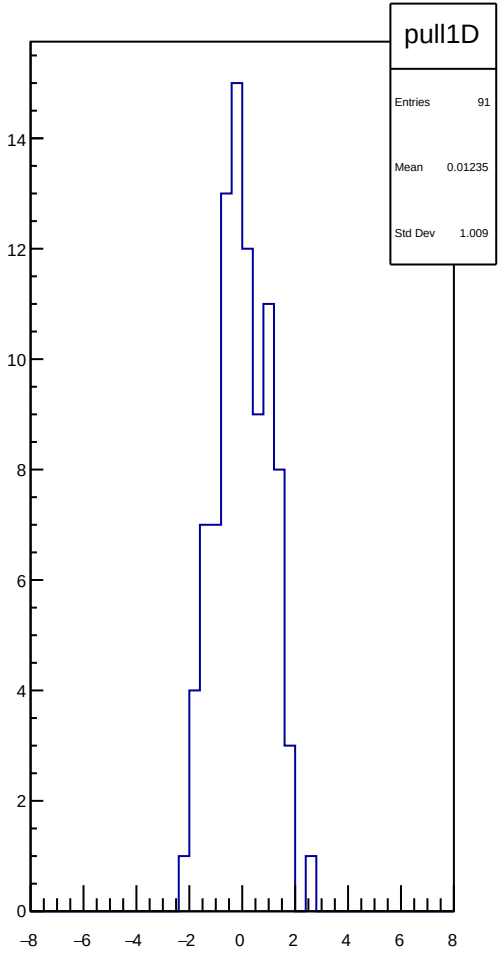

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.456e+05 / 90
p0 1.397e−09 ± 1.395e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

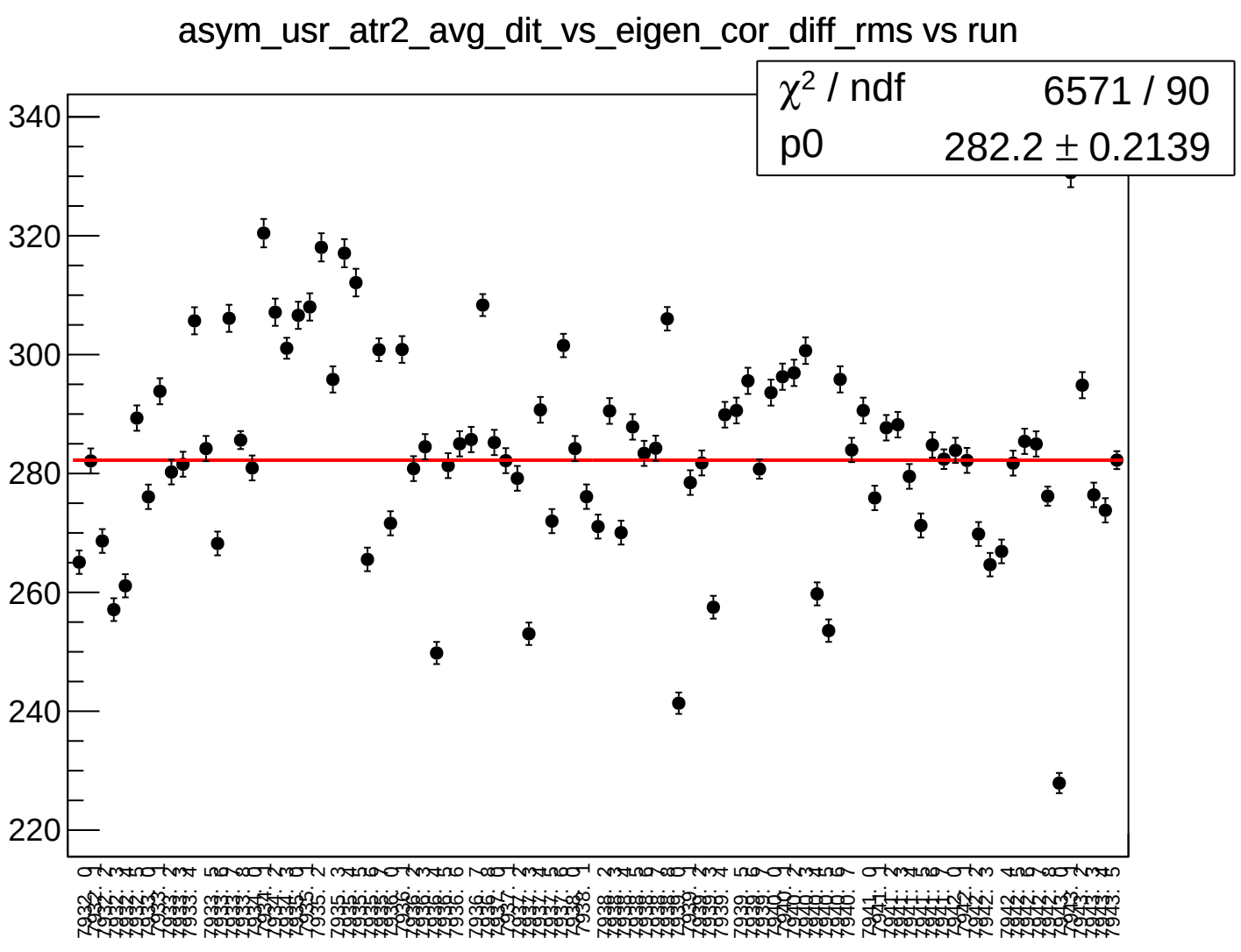

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.59 / 90
p0 −0.1689 ± 0.3024
pull
Entries 91
Mean 31.79
Std Dev 0

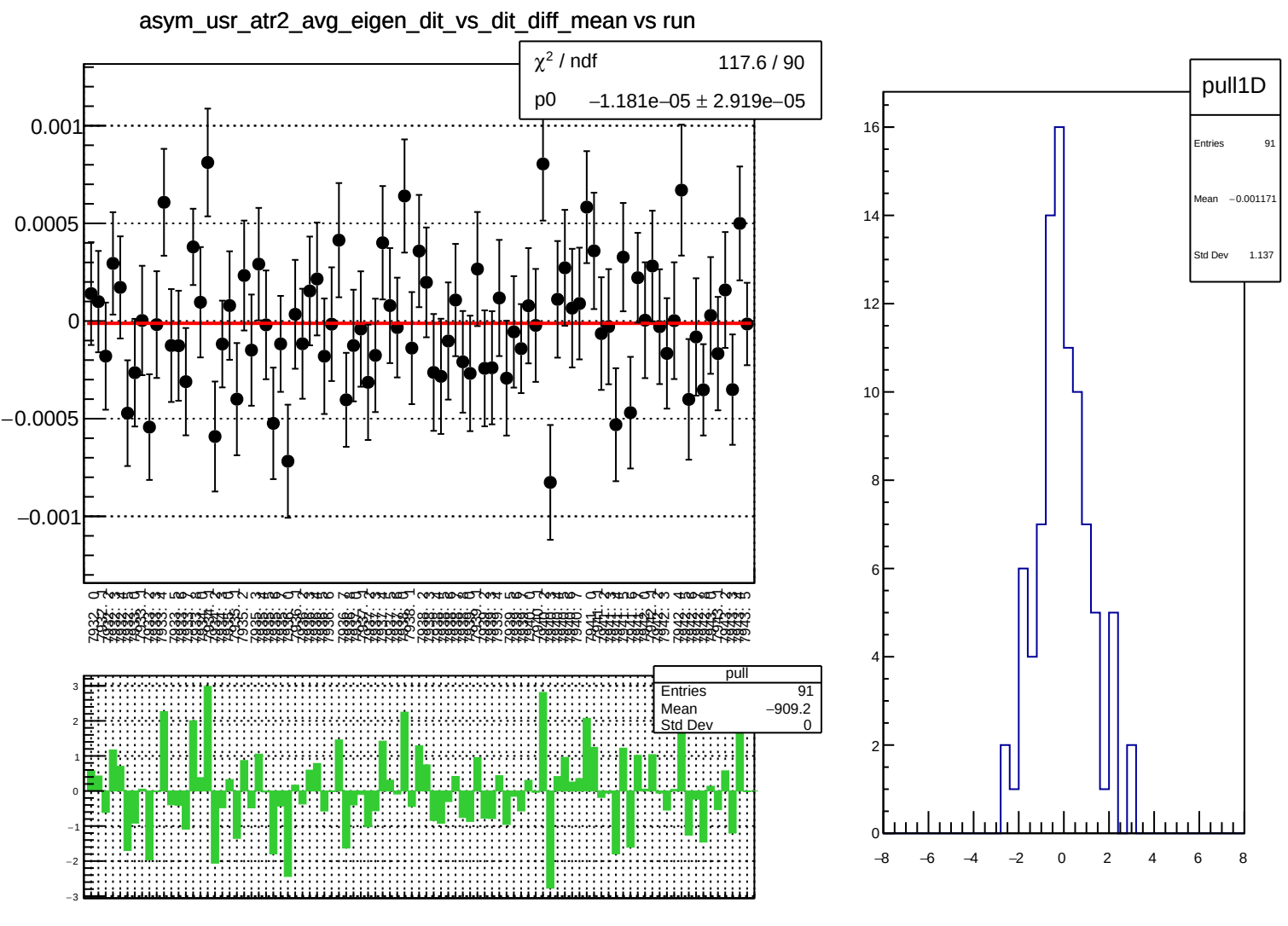

pull1D
Entries 91
Mean 0.01235
Std Dev 1.009

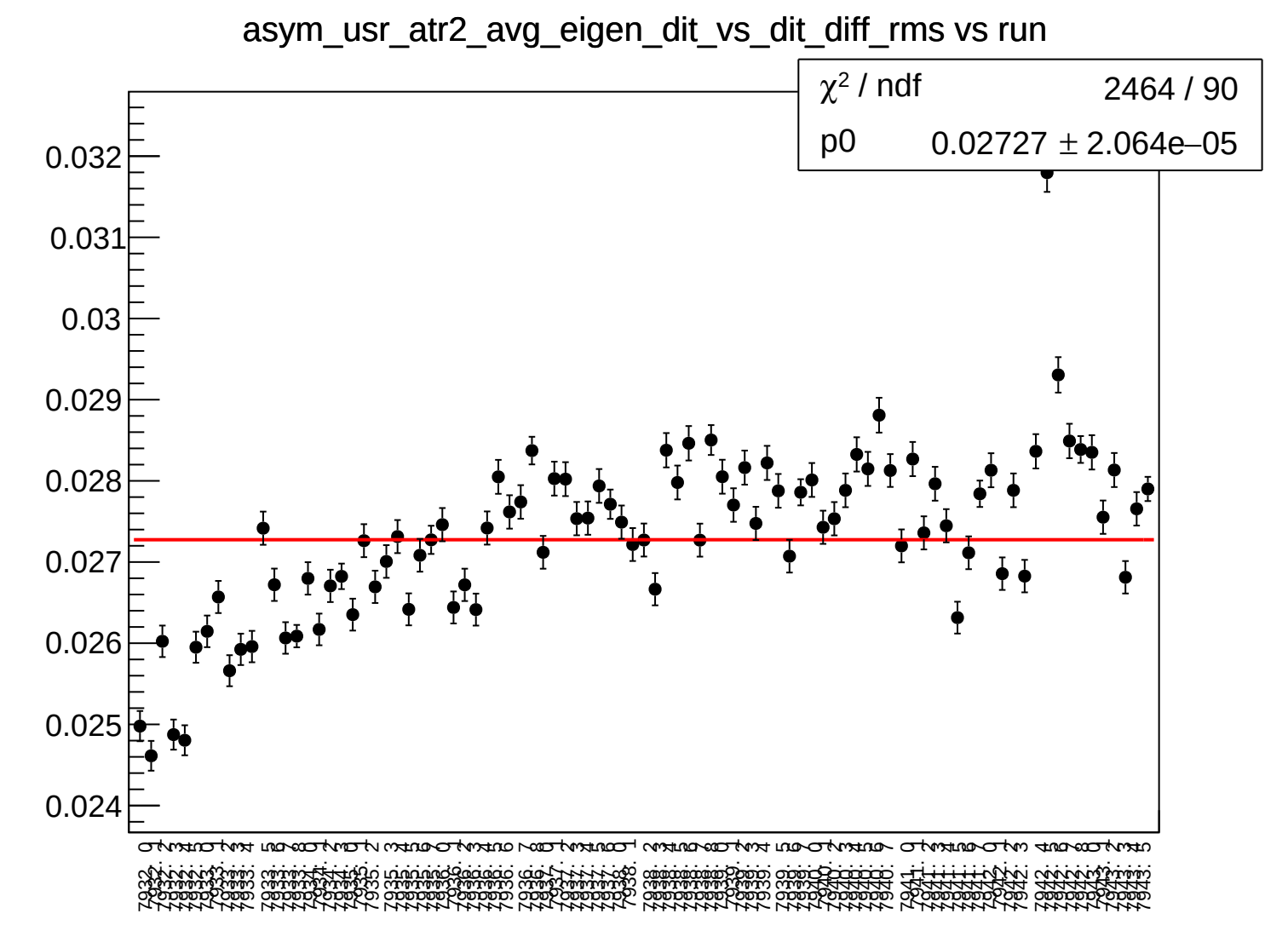

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6571 / 90
p0 282.2 ± 0.2139
340
320
300
280
260
240
220

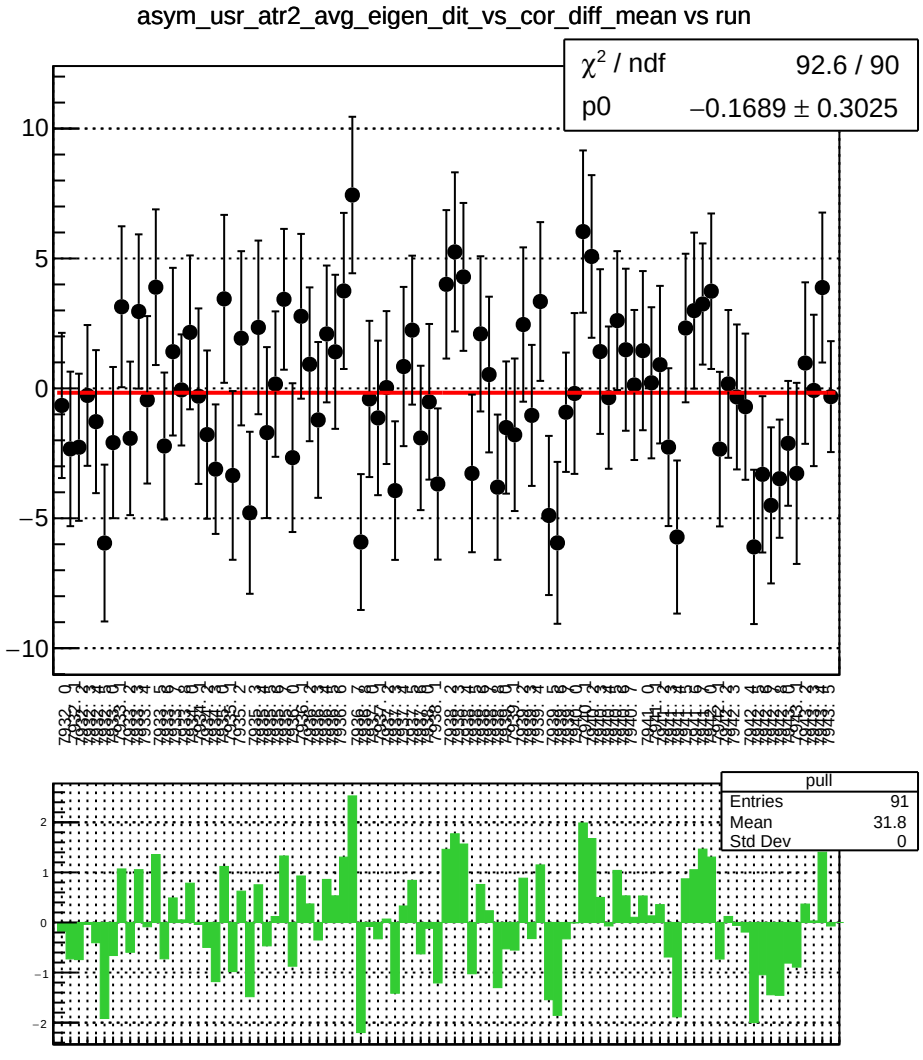

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.59 / 90
p0 −0.1689 ± 0.3024
pull
Entries 91
Mean 31.79
Std Dev 0

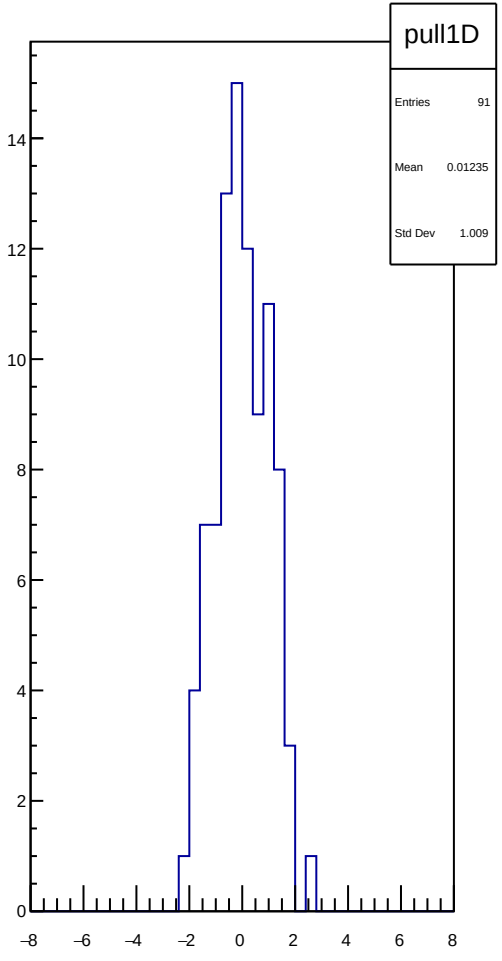

pull1D
Entries 91
Mean 0.01235
Std Dev 1.009

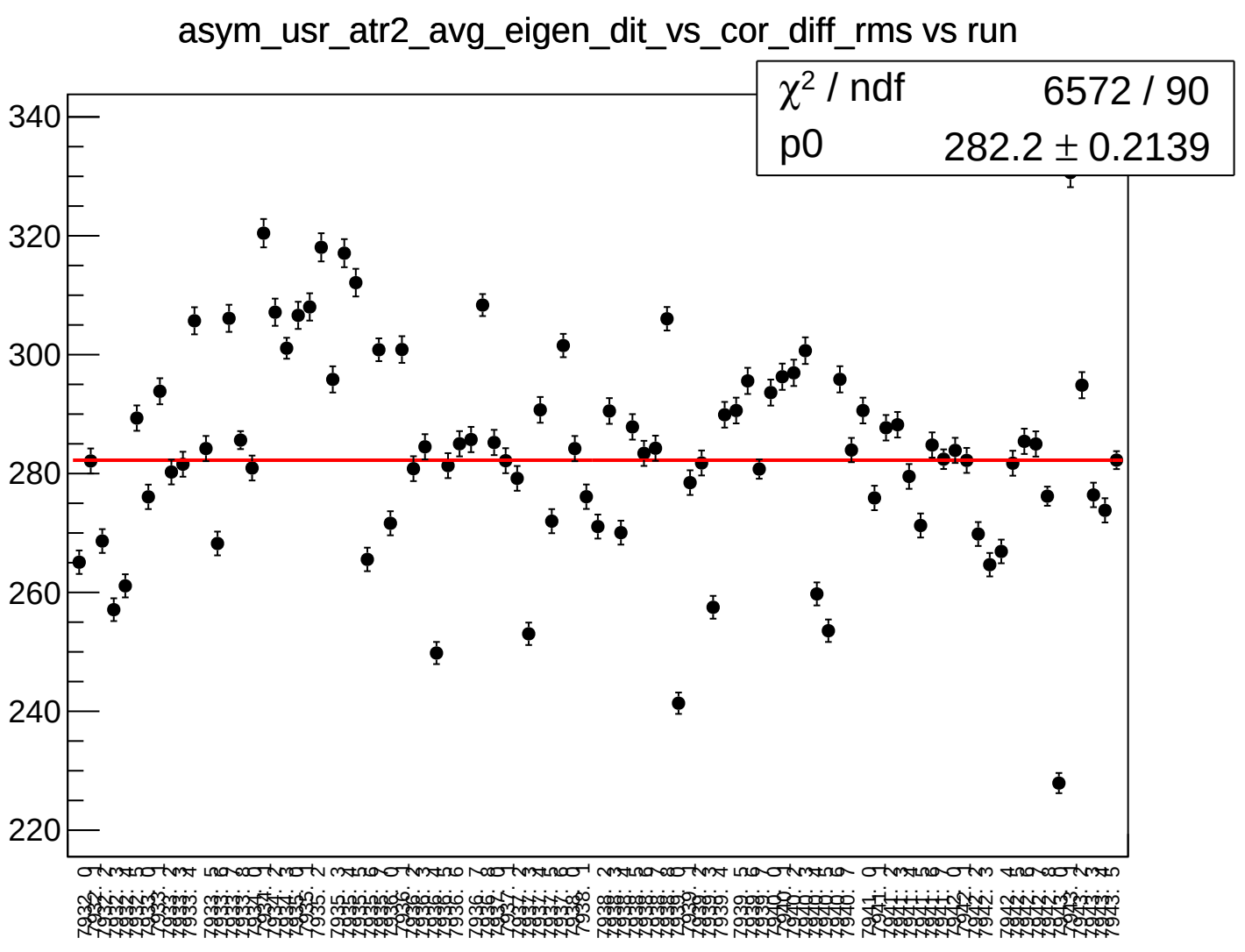

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6571 / 90
p0 282.2 ± 0.2139
340
320
300
280
260
240
220

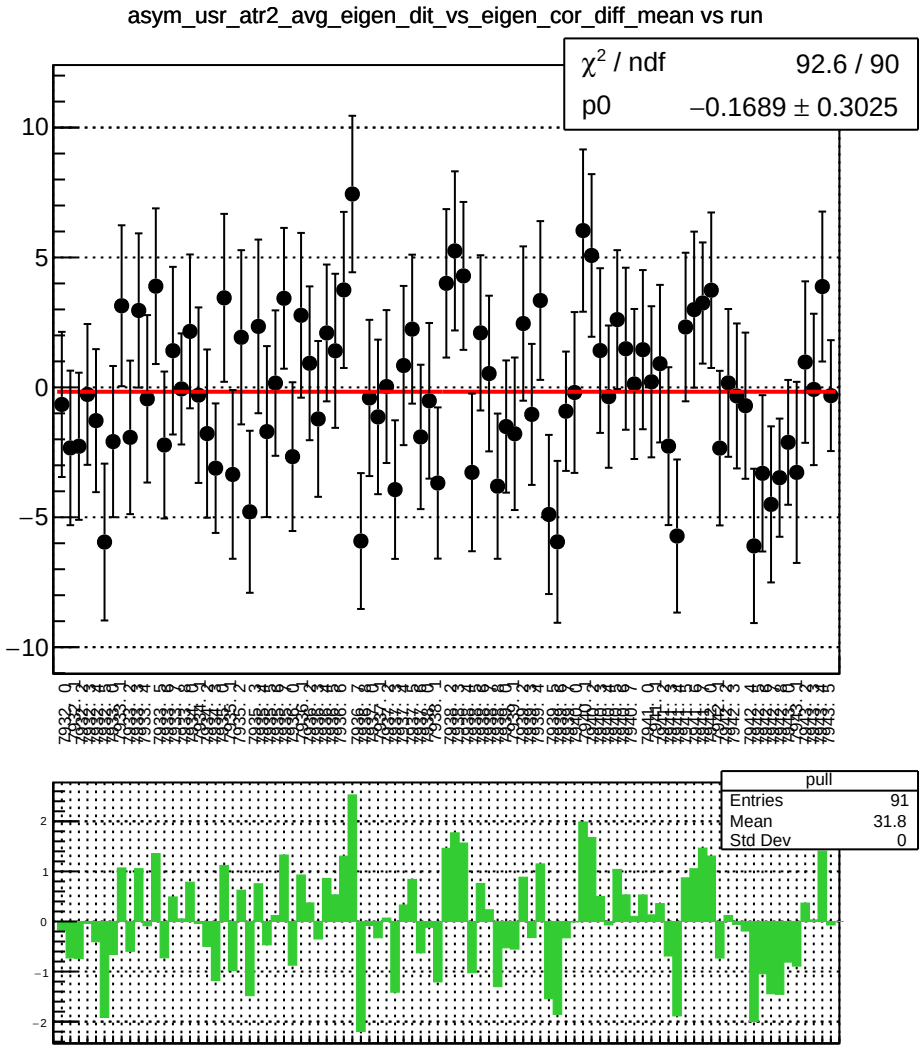

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 117.6 / 90
p0 −1.181e−05 ± 2.919e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −909.2
Std Dev 0
pull1D
Entries 91
Mean −0.001171
Std Dev 1.137

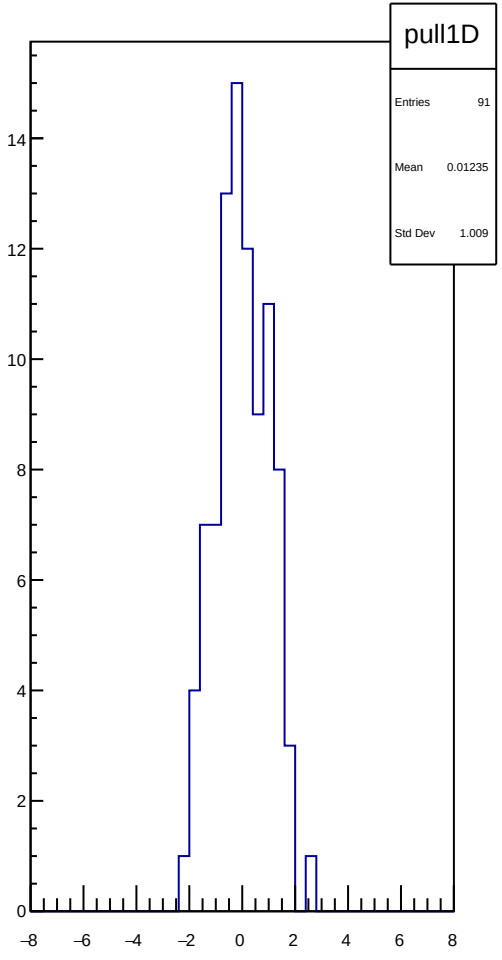

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2464 / 90
p0 0.02727 ± 2.064e−05
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024

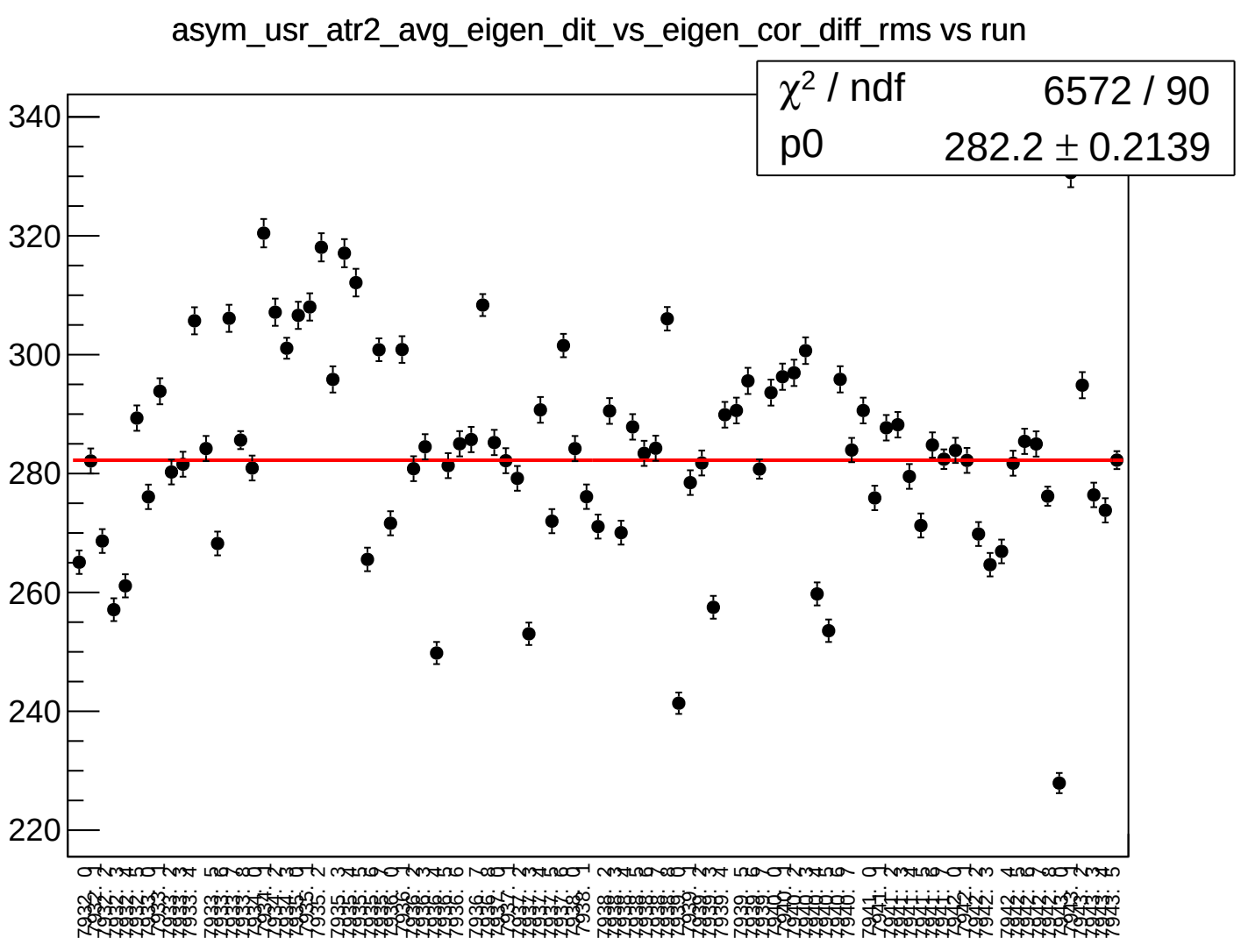

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.6 / 90
p0 −0.1689 ± 0.3025
pull
Entries 91
Mean 31.8
Std Dev 0

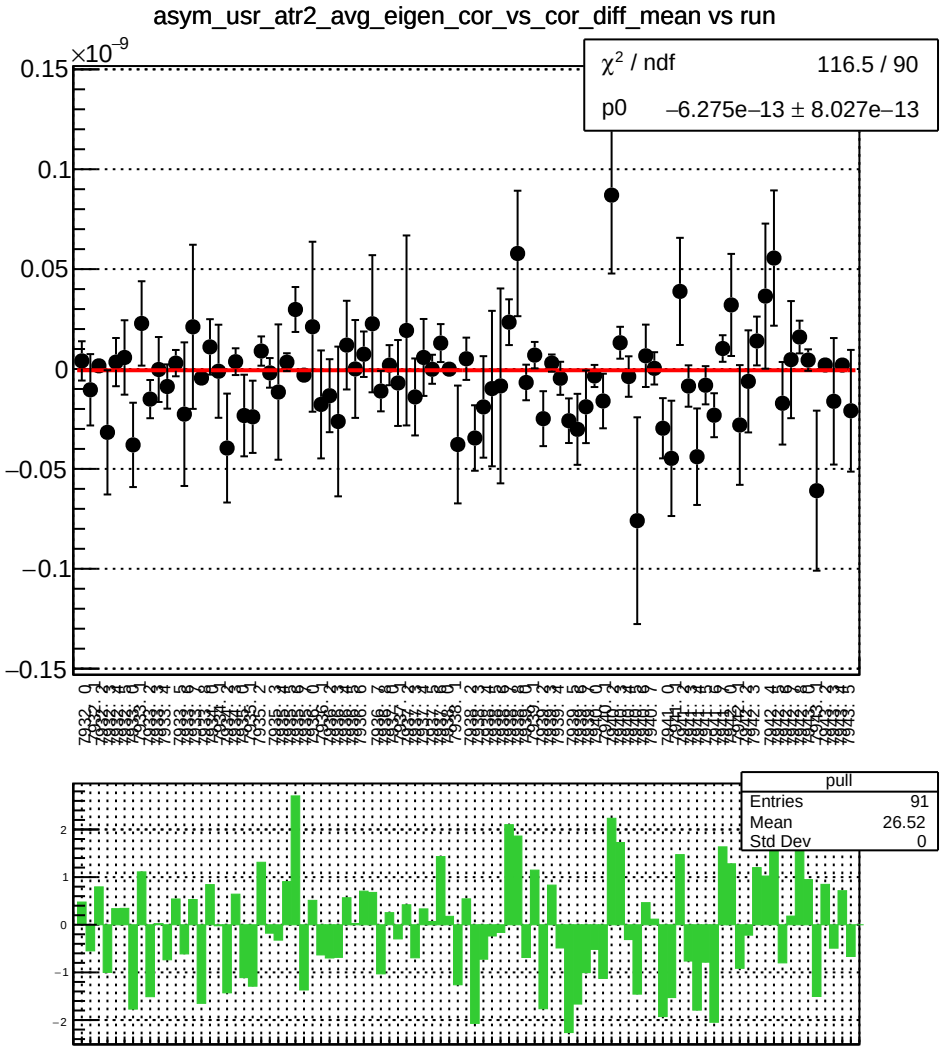

pull1D
Entries 91
Mean 0.01235
Std Dev 1.009

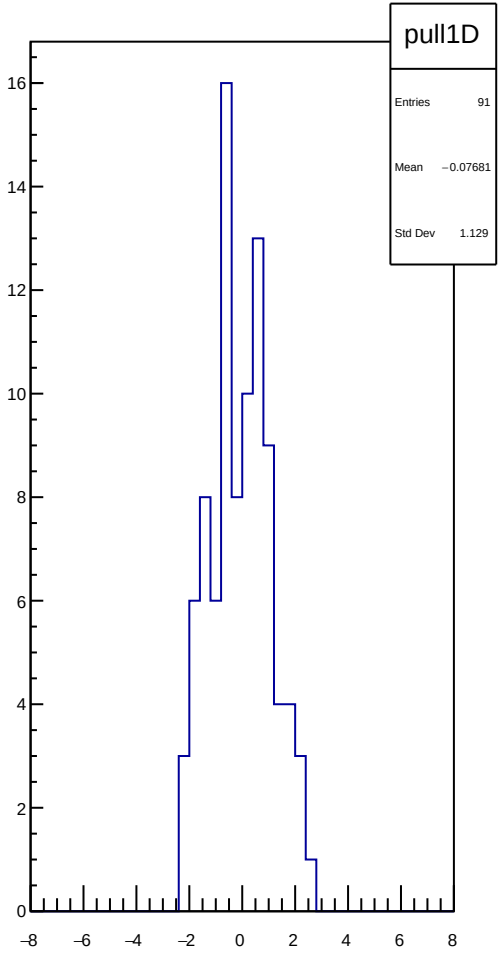

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6572 / 90
p0 282.2 ± 0.2139
340
320
300
280
260
240
220

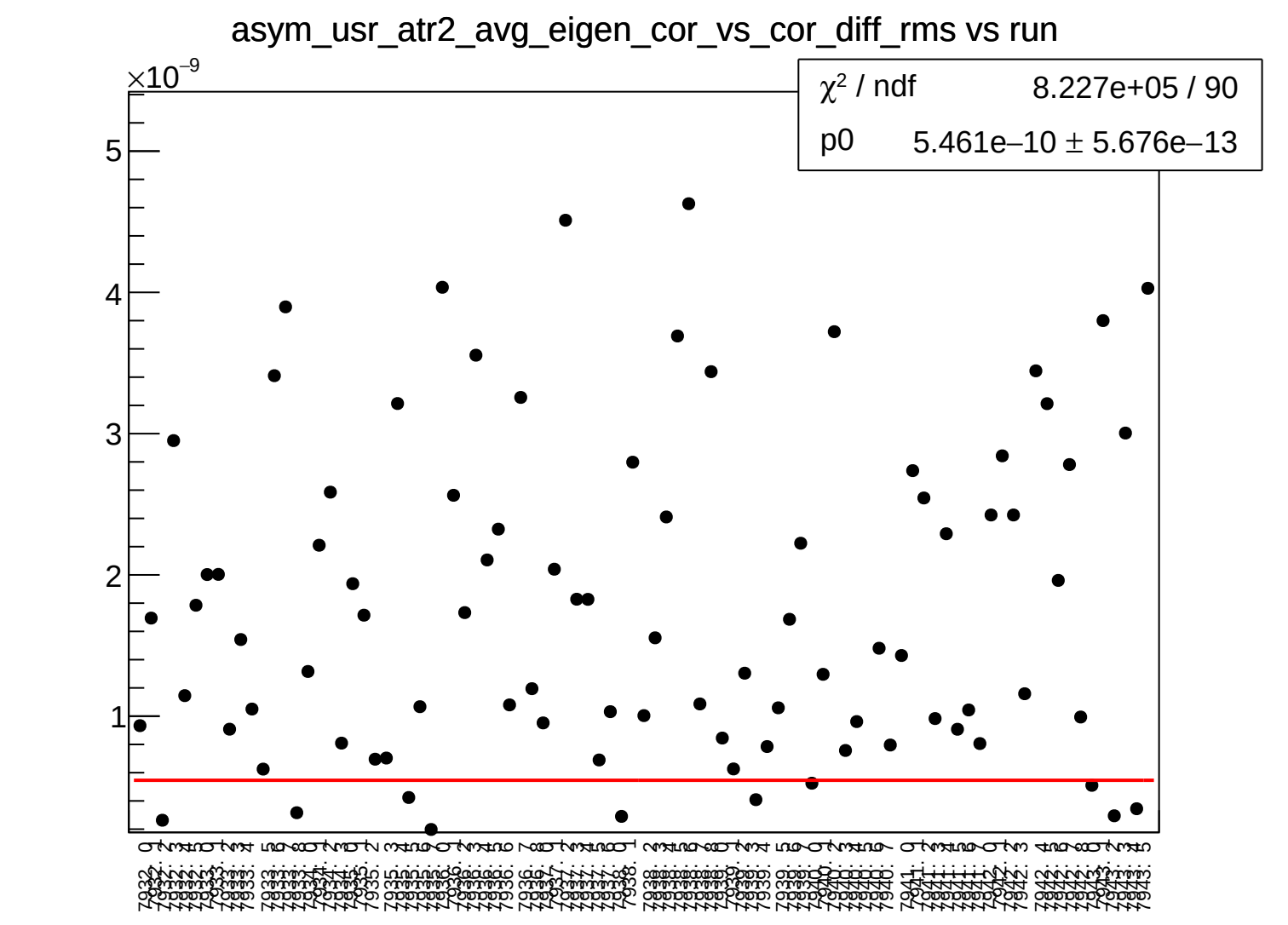

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.6 / 90
p0 −0.1689 ± 0.3025
pull
Entries 91
Mean 31.8
Std Dev 0

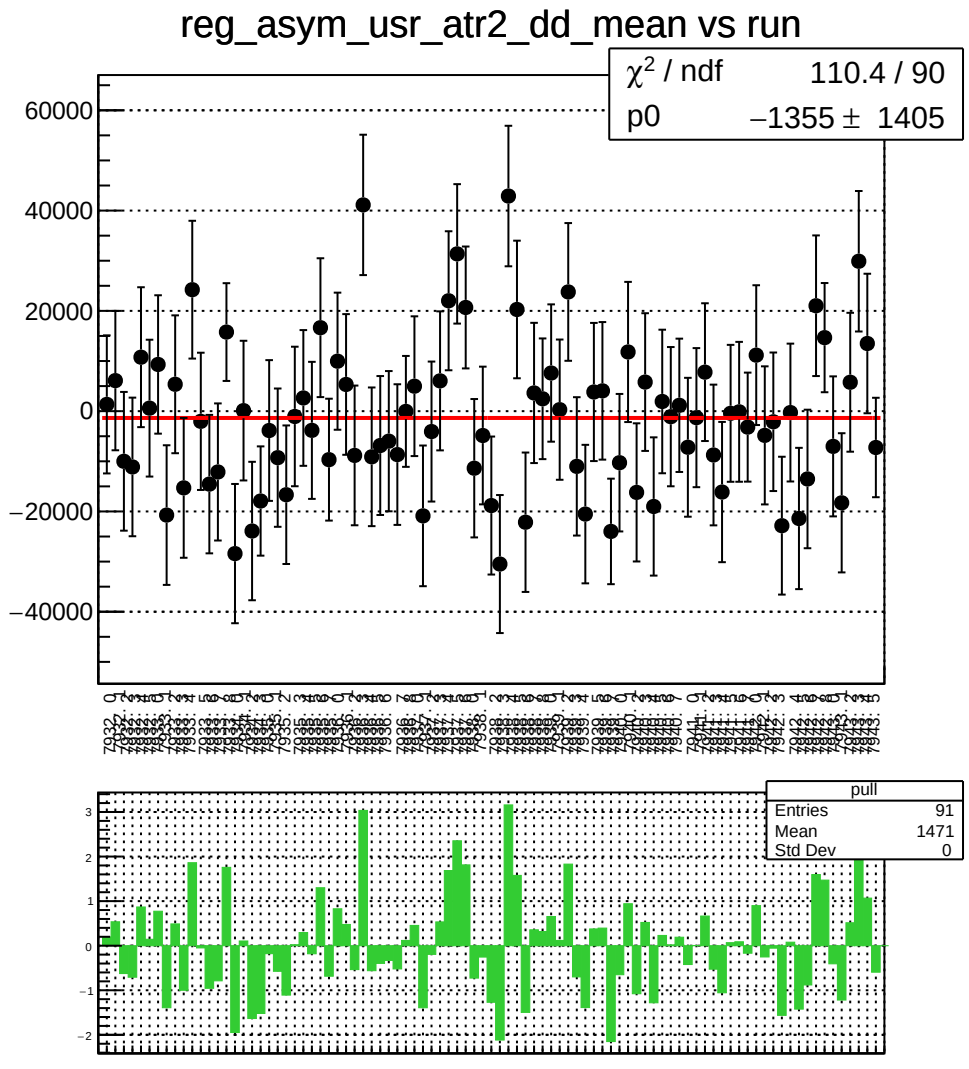

pull1D
Entries 91
Mean 0.01235
Std Dev 1.009

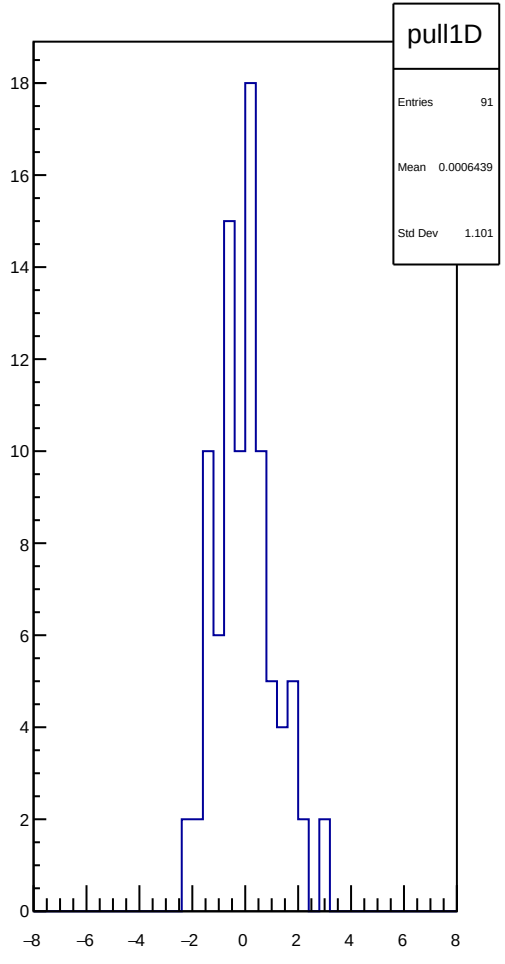

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6572 / 90
p0 282.2 ± 0.2139
340
320
300
280
260
240
220

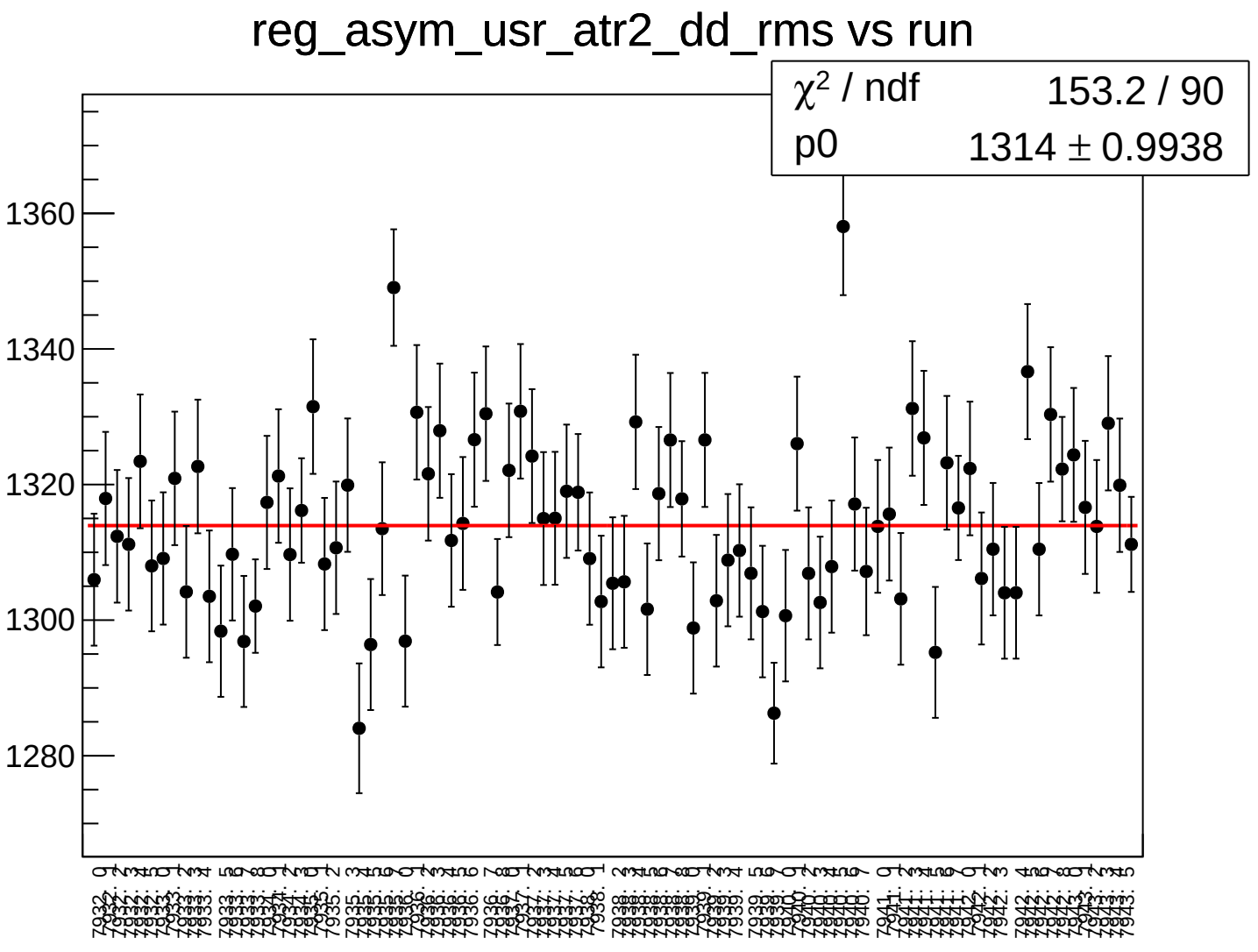

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 116.5 / 90
p0 −6.275e−13 ± 8.027e−13
pull
Entries 91
Mean 26.52
Std Dev 0

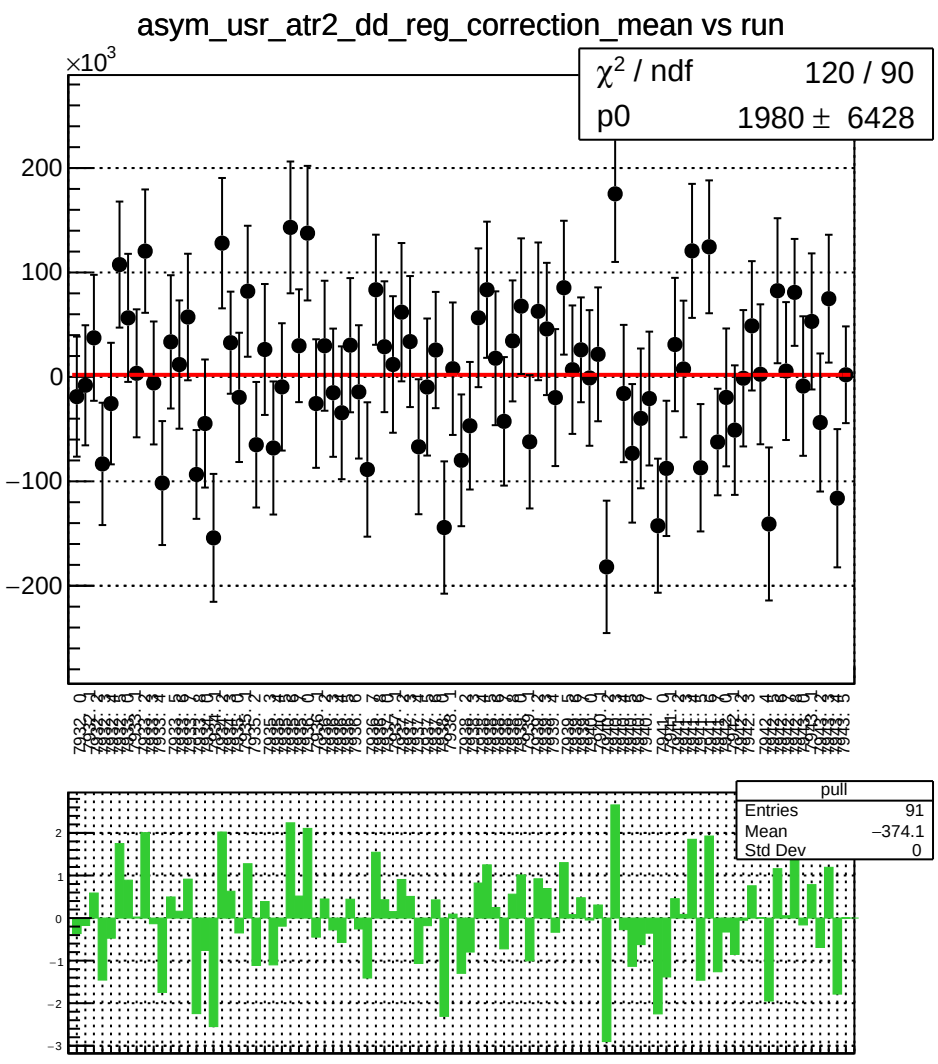

pull1D
Entries 91
Mean −0.07681
Std Dev 1.129

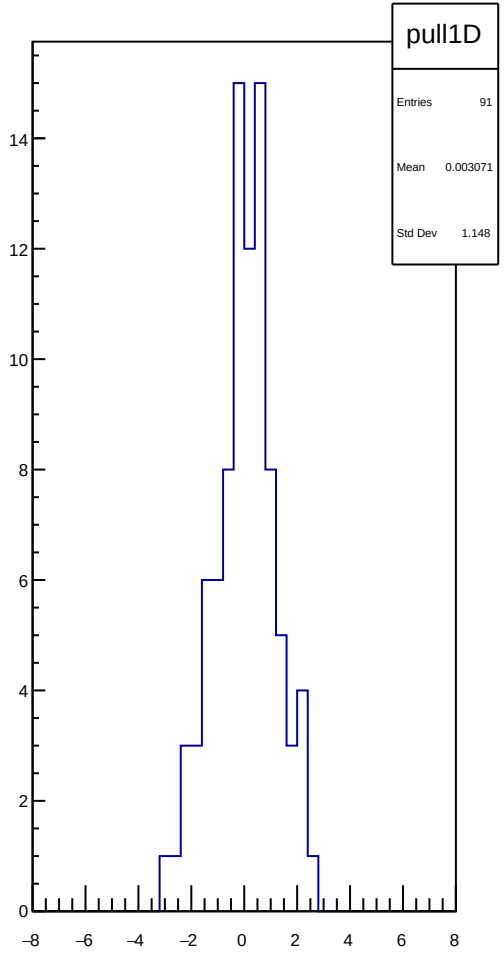

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.227e+05 / 90
p0 5.461e−10 ± 5.676e−13
5
4
3
2
1

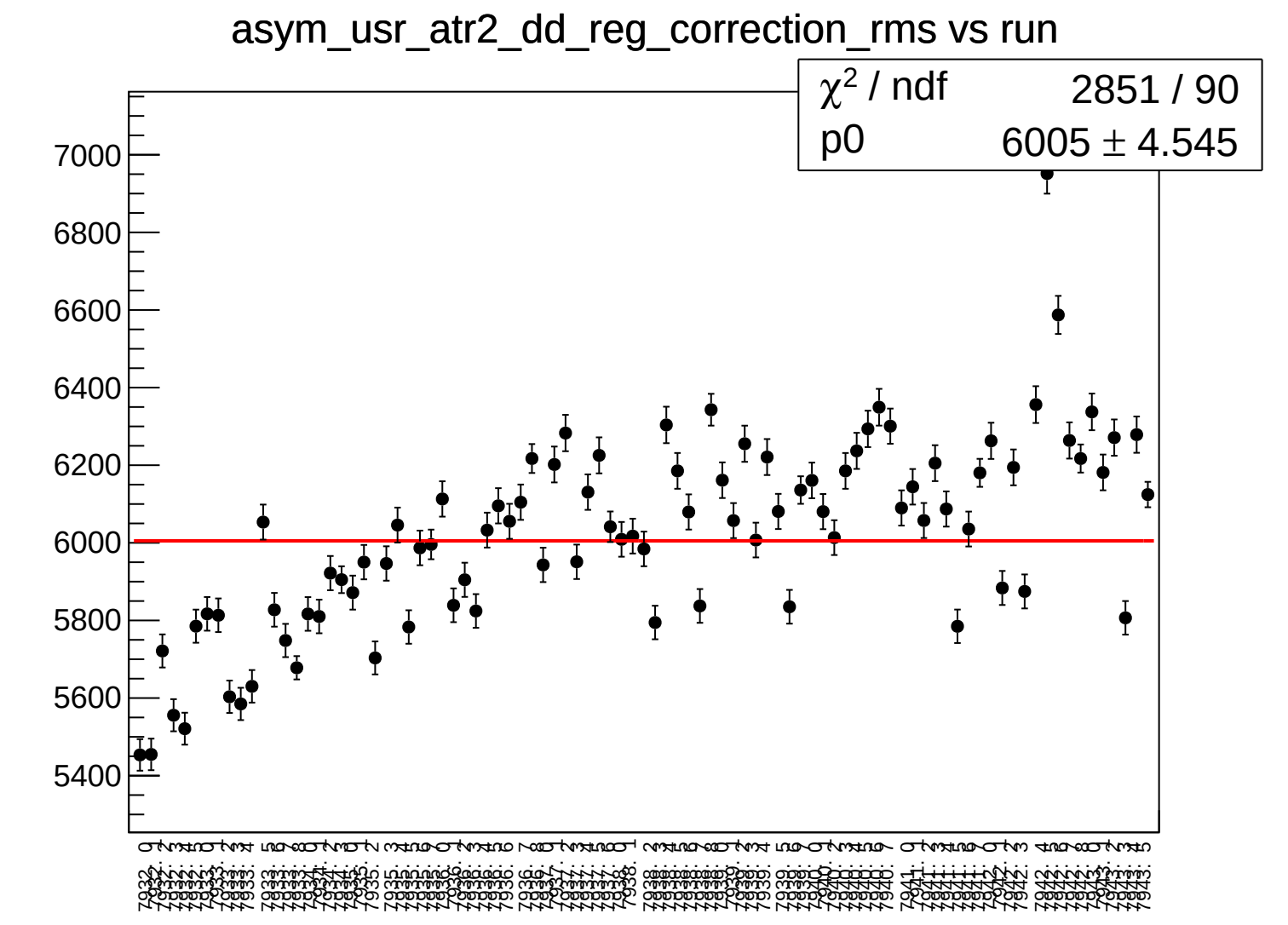

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 110.4 / 90
p0 −1355 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 1471
Std Dev 0
3
2
1
0
−1
−2

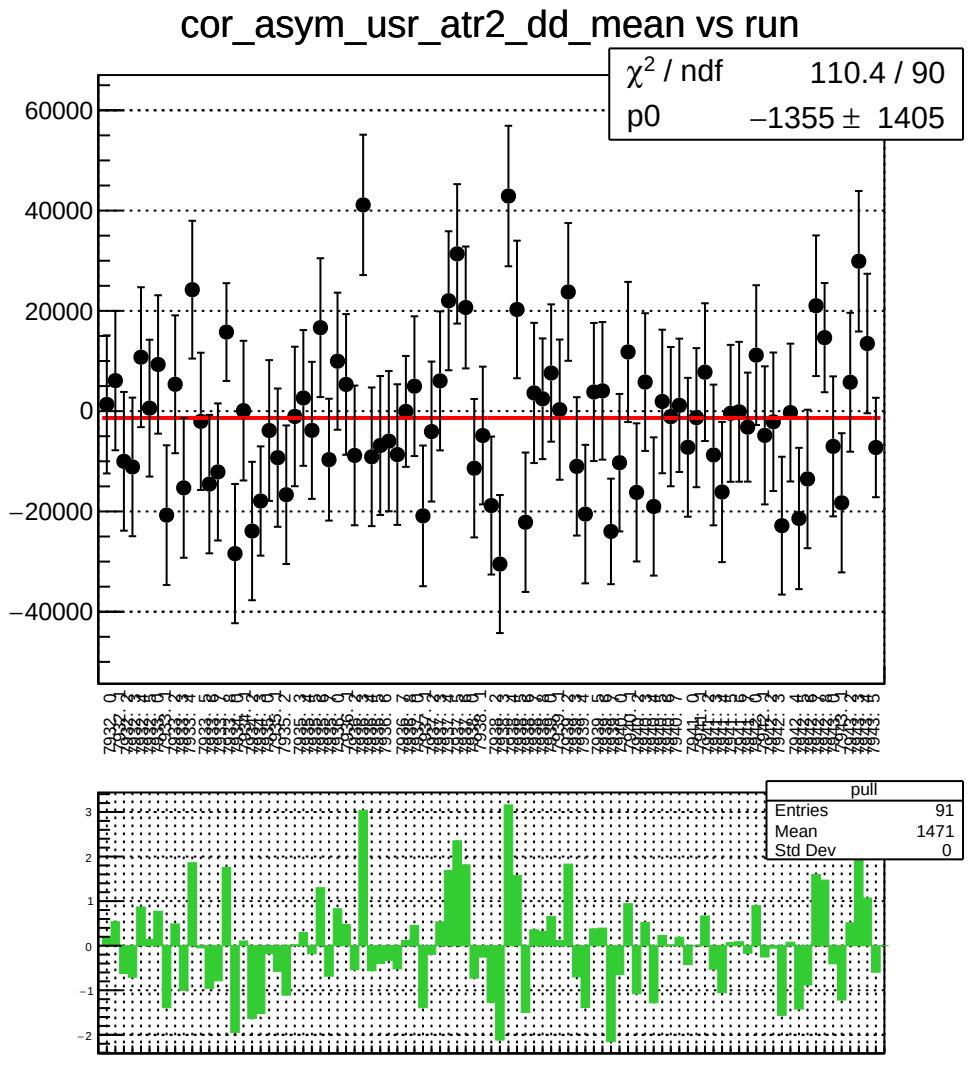

pull1D
Entries 91
Mean 0.0006439
Std Dev 1.101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

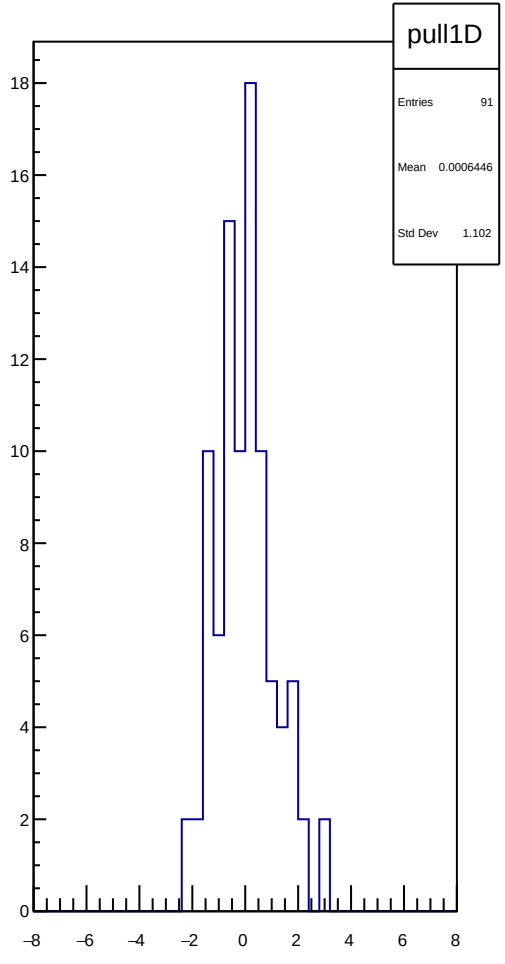

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 153.2 / 90
p0 1314 ± 0.9938
1360
1340
1320
1300
1280

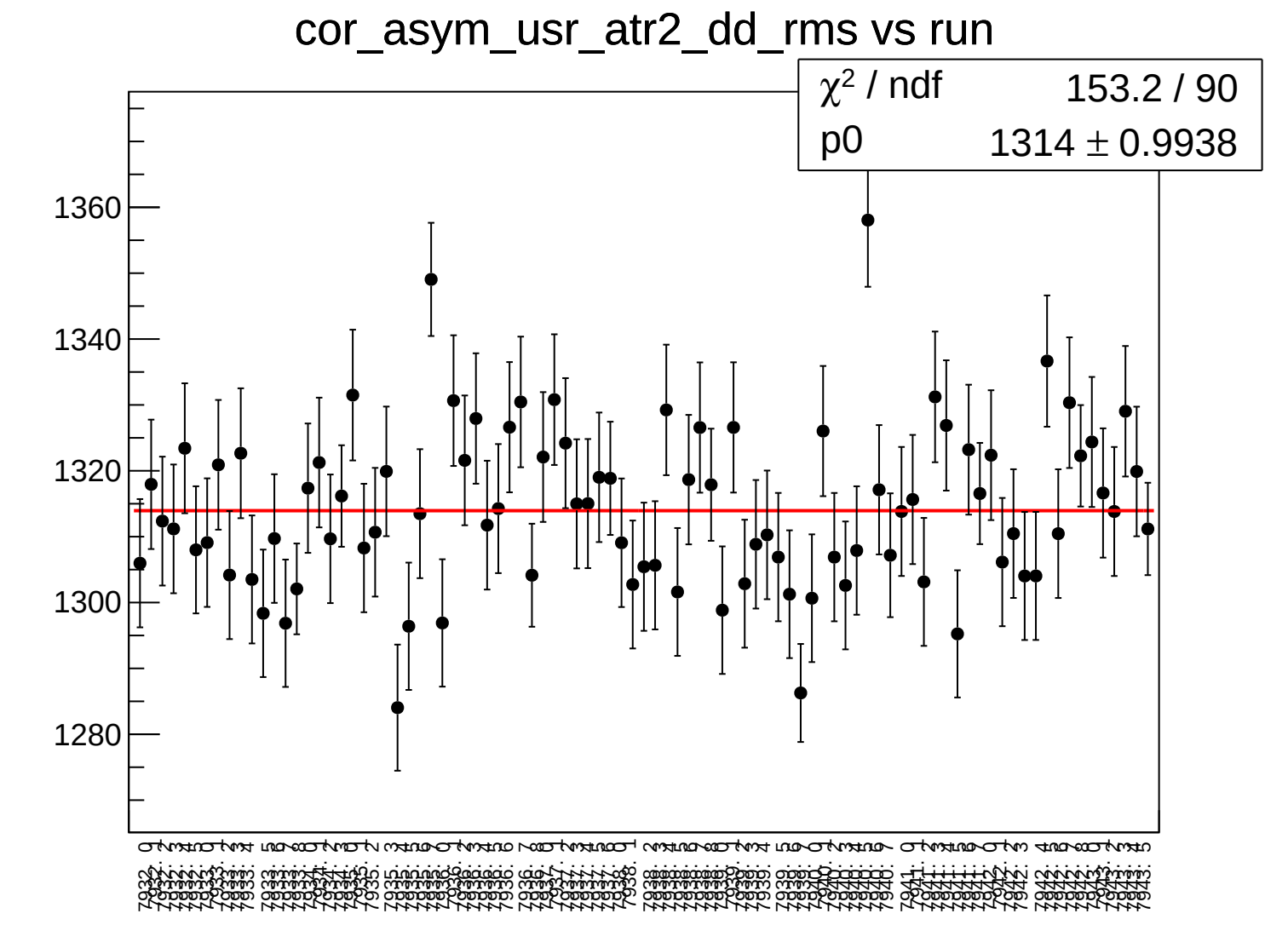

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 120 / 90
p0 1980 ± 6428
200
100
0
−100
−200
pull
Entries 91
Mean −374.1
Std Dev 0
2
1
0
−1
−2
−3

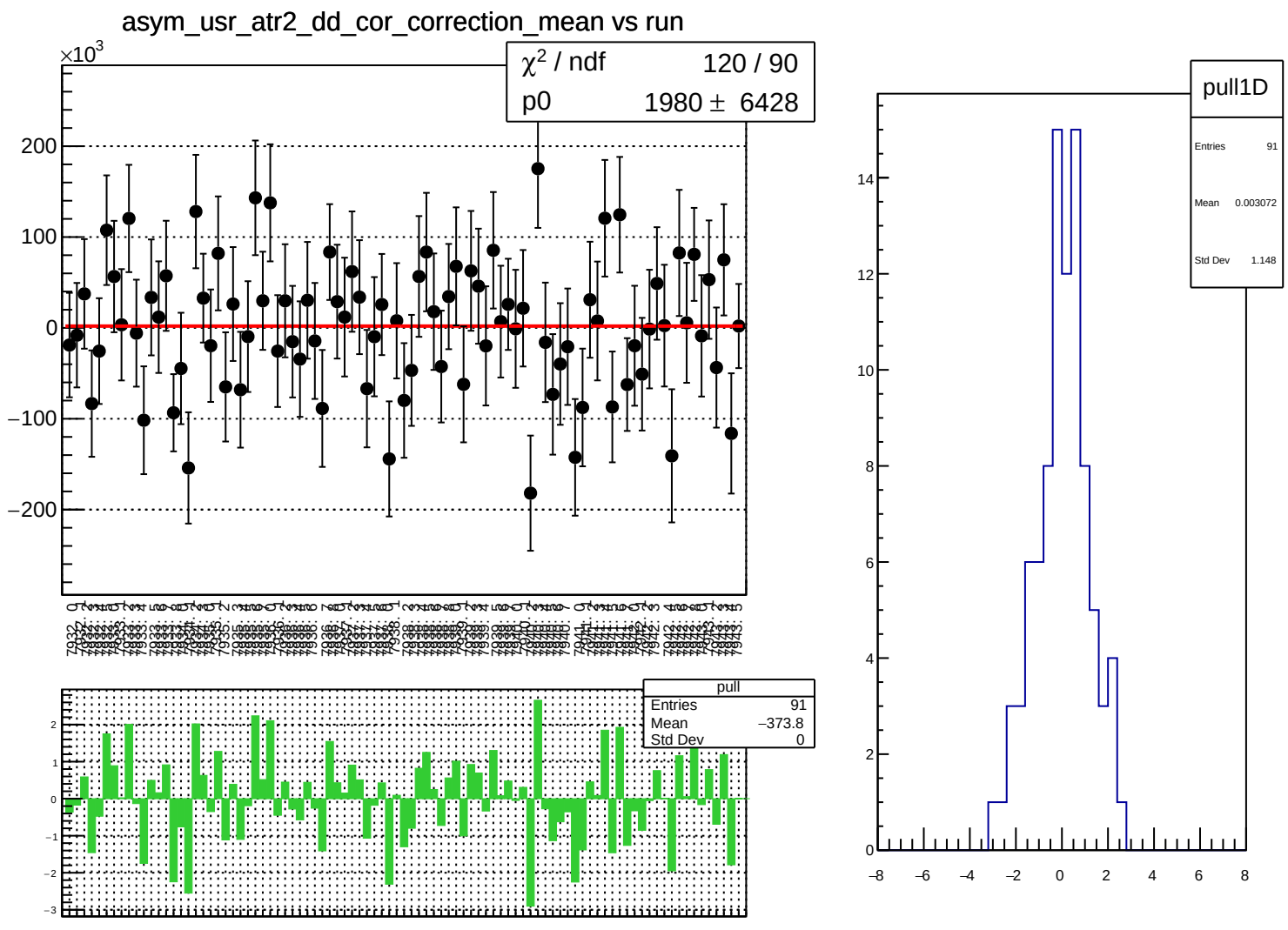

pull1D
Entries 91
Mean 0.003071
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

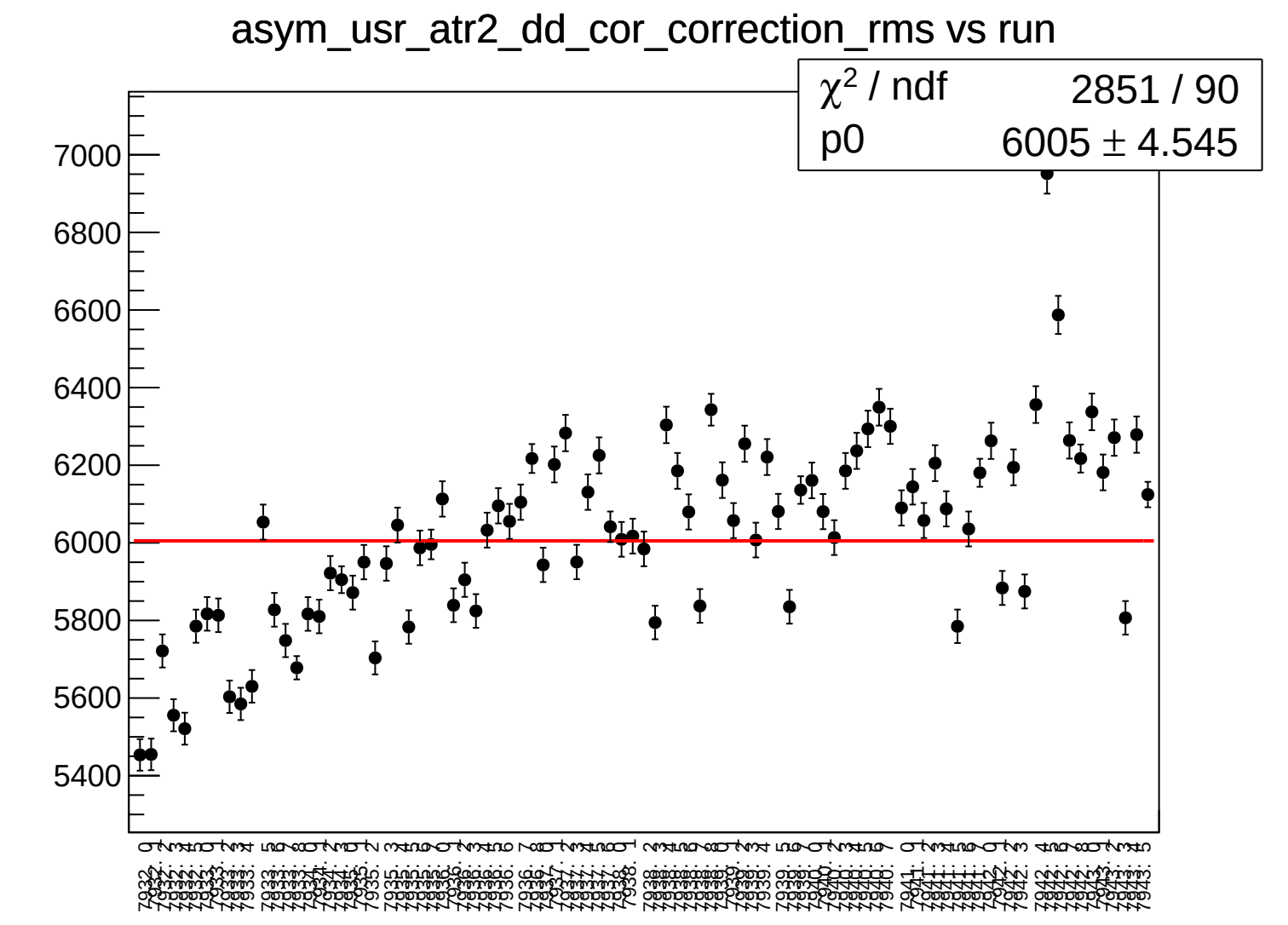

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 2851 / 90
p0 6005 ± 4.545
7000
6800
6600
6400
6200
6000
5800
5600
5400

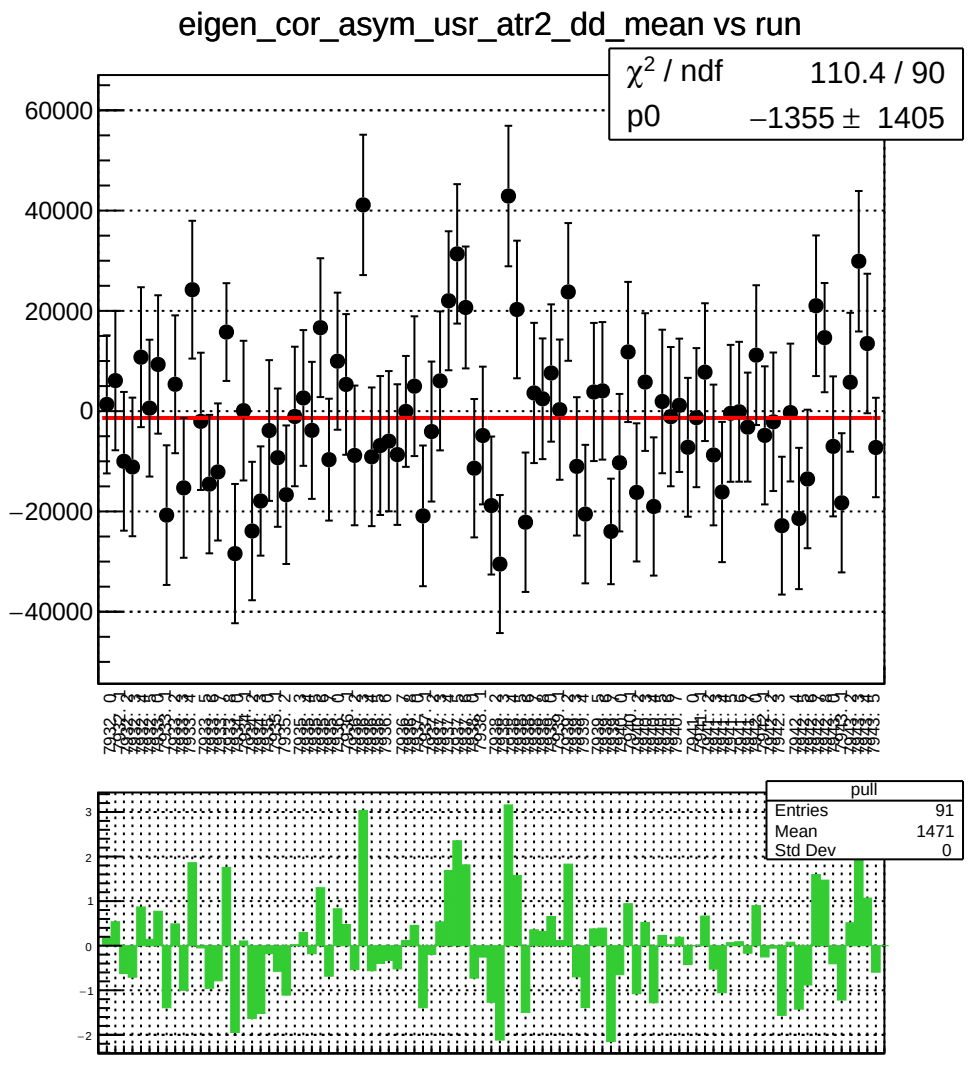

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 110.4 / 90
p0 −1355 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 1471
Std Dev 0
3
2
1
0
−1
−2

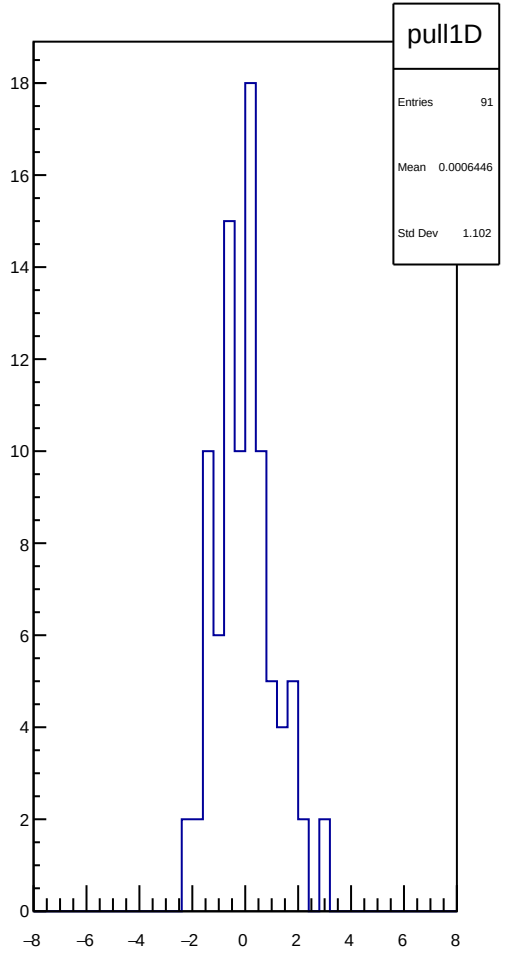

pull1D
Entries 91
Mean 0.0006446
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

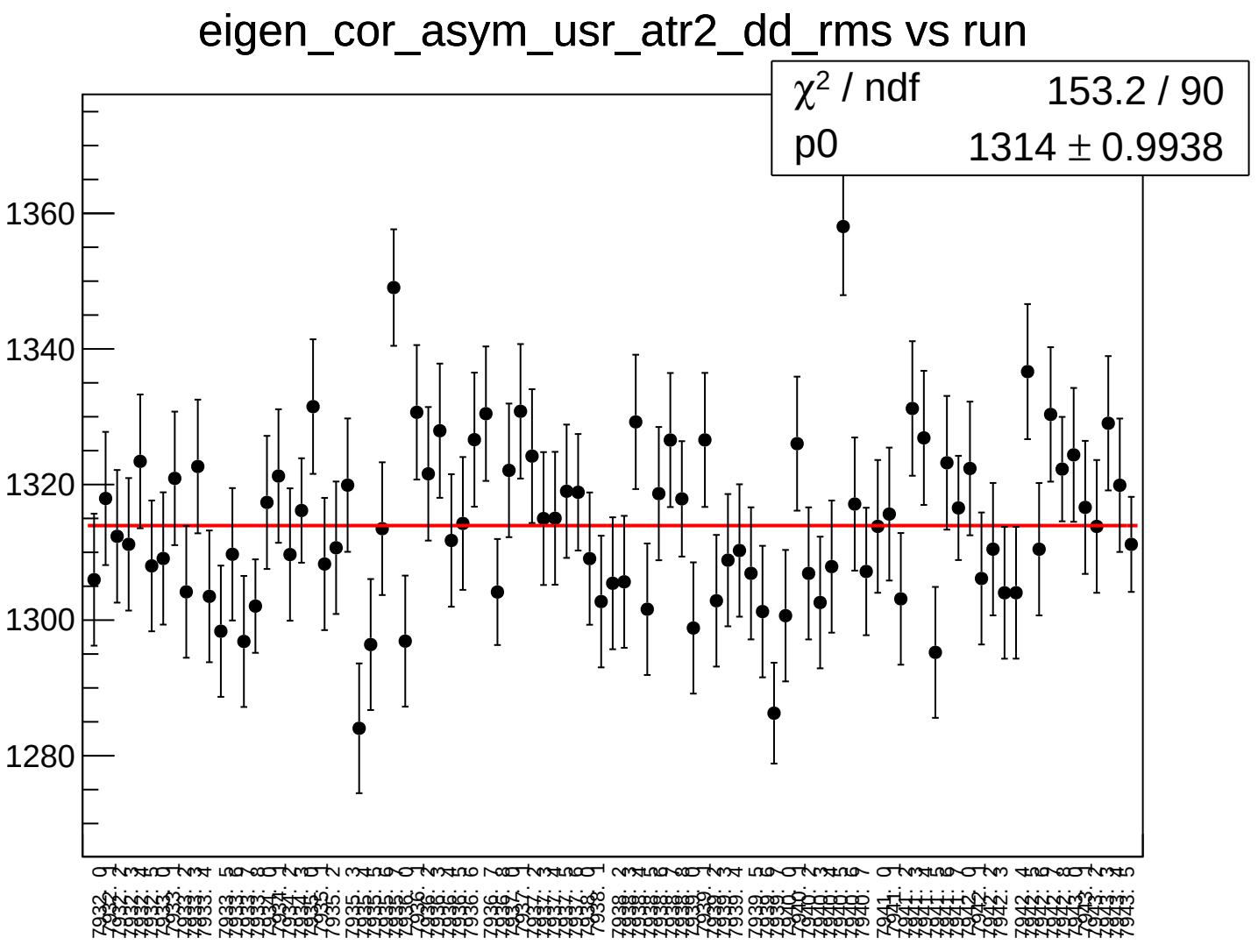

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 153.2 / 90
p0 1314 ± 0.9938
1360
1340
1320
1300
1280

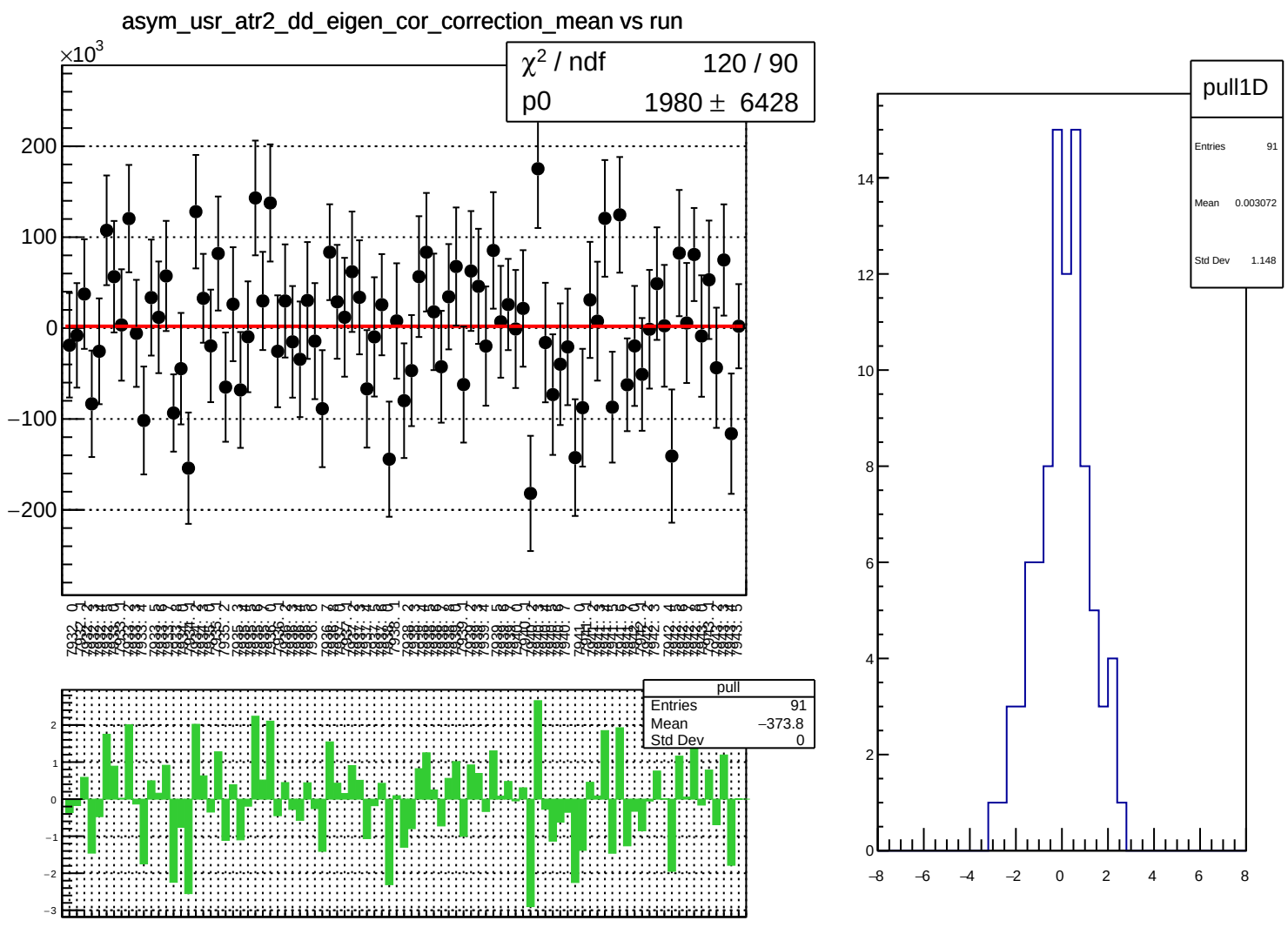

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 120 / 90
p0 1980 ± 6428
200
100
0
−100
−200
pull
Entries 91
Mean −373.8
Std Dev 0
pull1D
Entries 91
Mean 0.003072
Std Dev 1.148

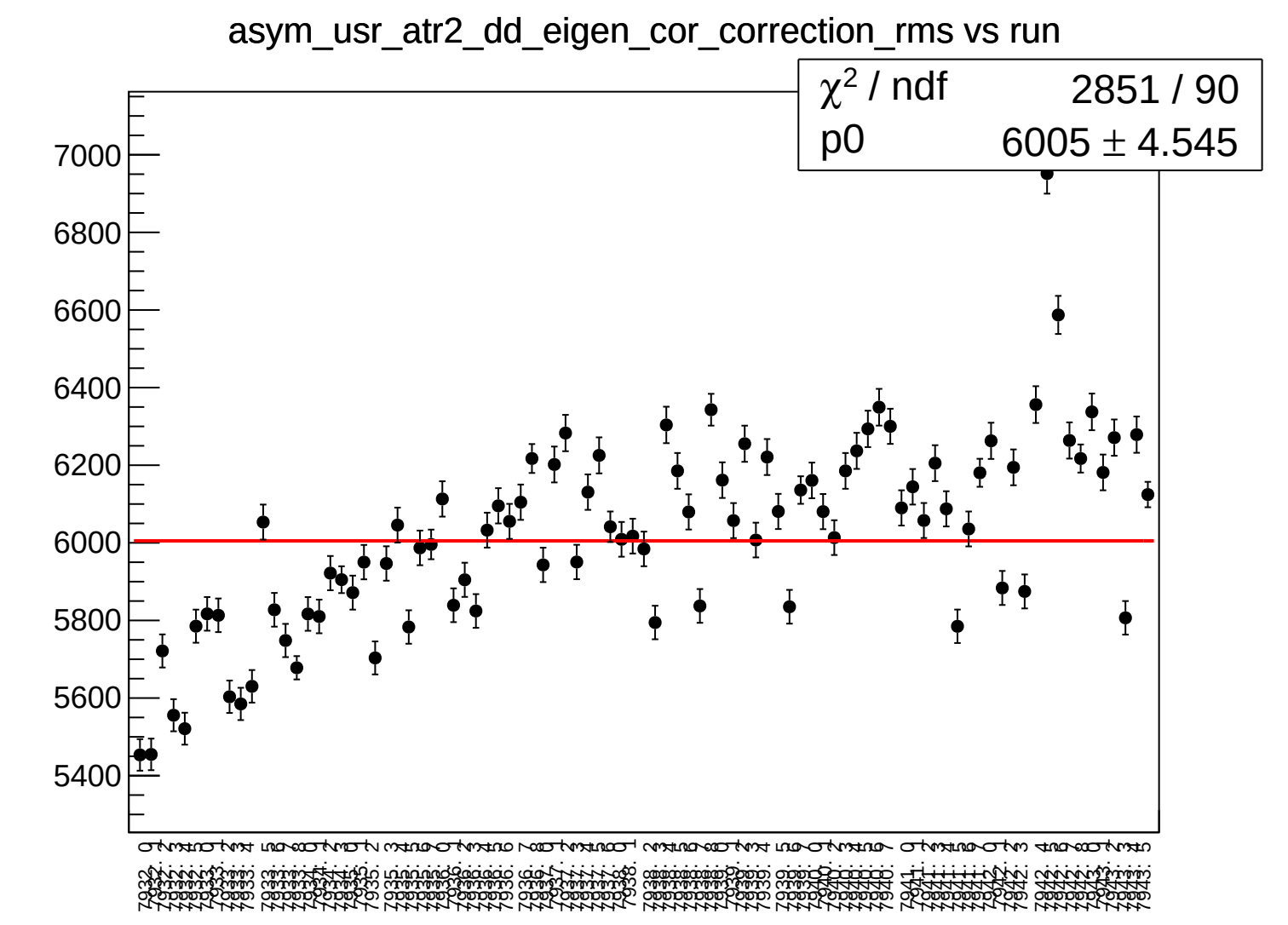

asym_usr_atr2_dd_cor_correction_rms vs run
χ^2 / ndf 2851 / 90
p0 6005 ± 4.545
7000
6800
6600
6400
6200
6000
5800
5600
5400

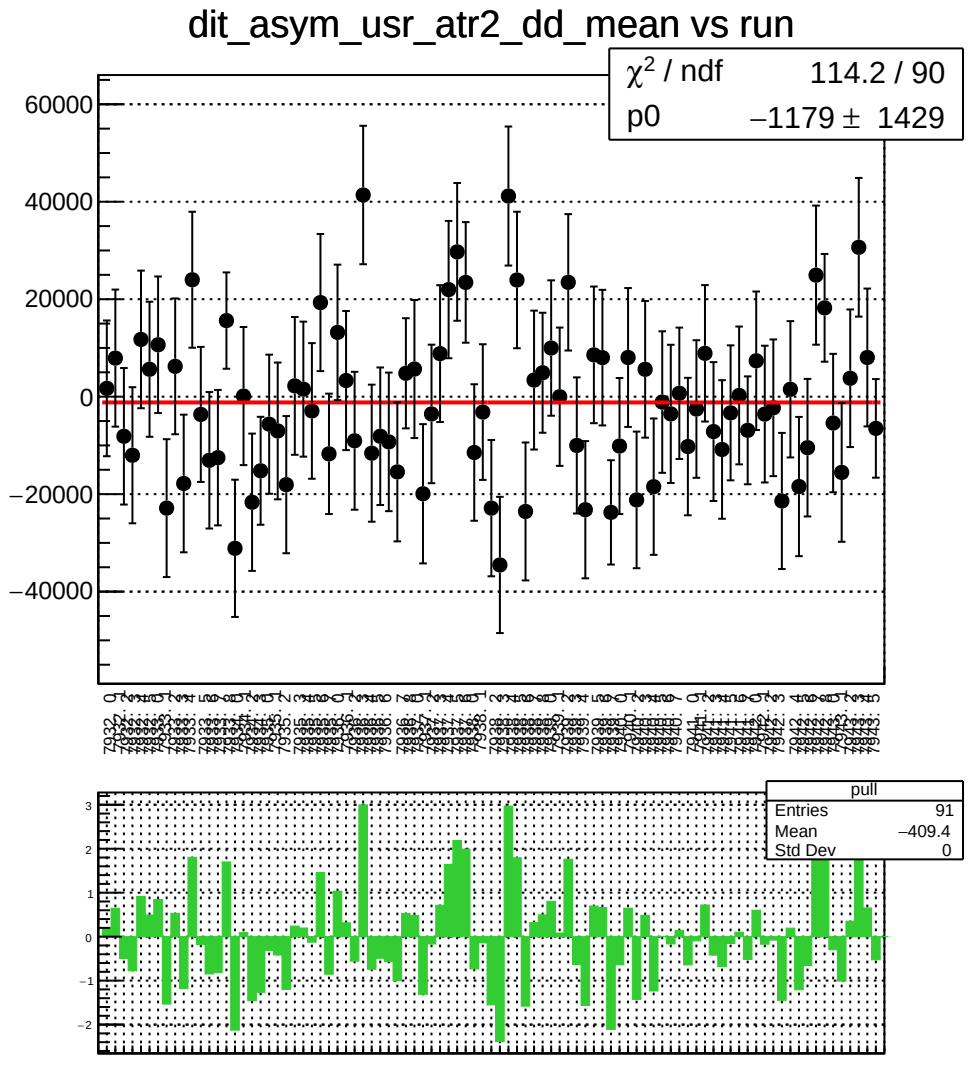

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 110.4 / 90
p0 −1355 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 1471
Std Dev 0
3
2
1
0
−1
−2

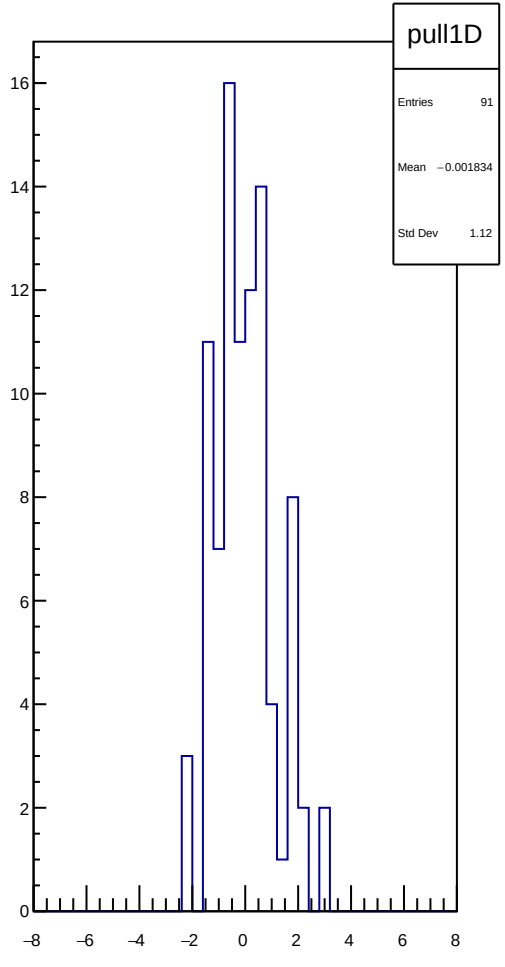

pull1D
Entries 91
Mean 0.0006446
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

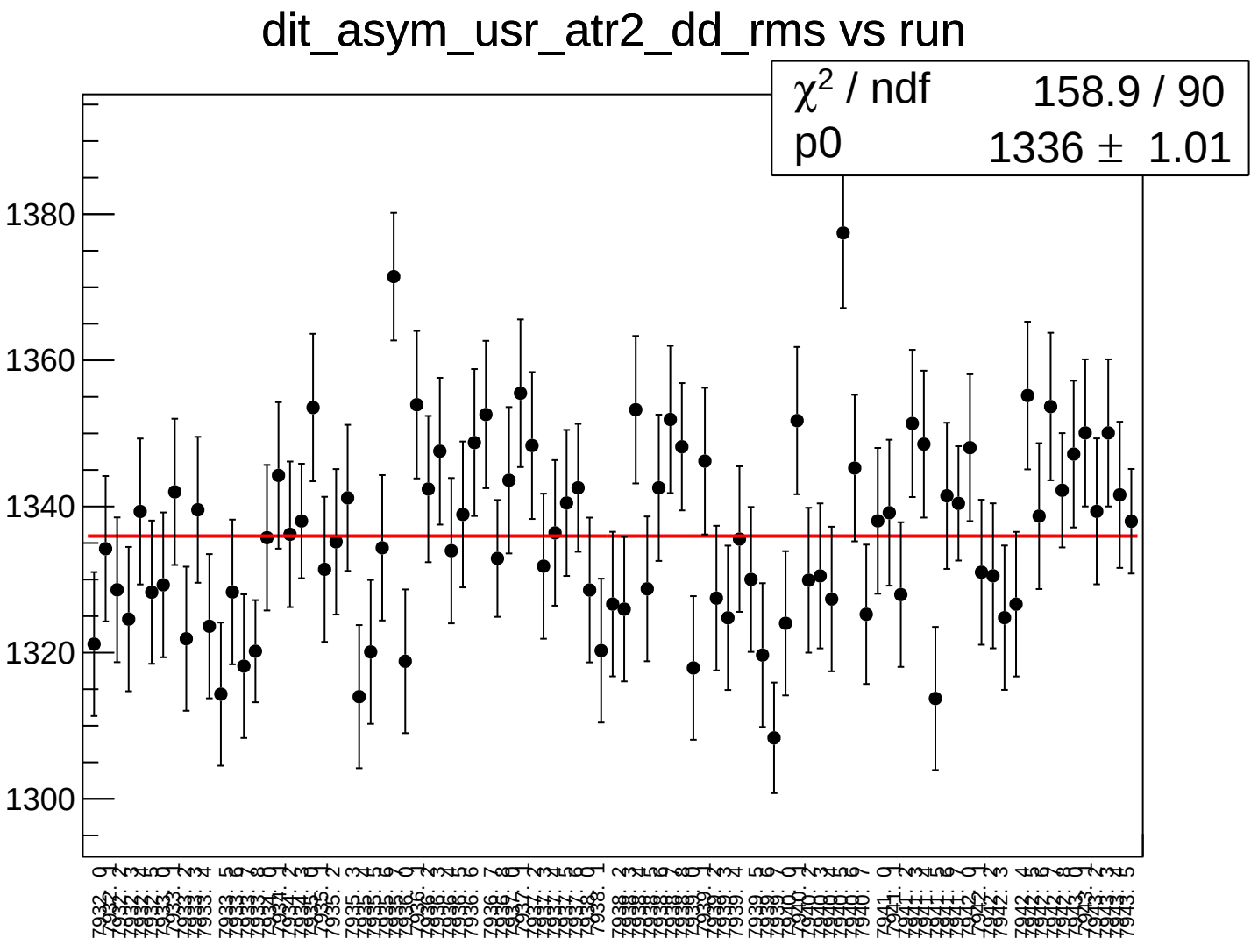

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 153.2 / 90
p0 1314 ± 0.9938
1360
1340
1320
1300
1280

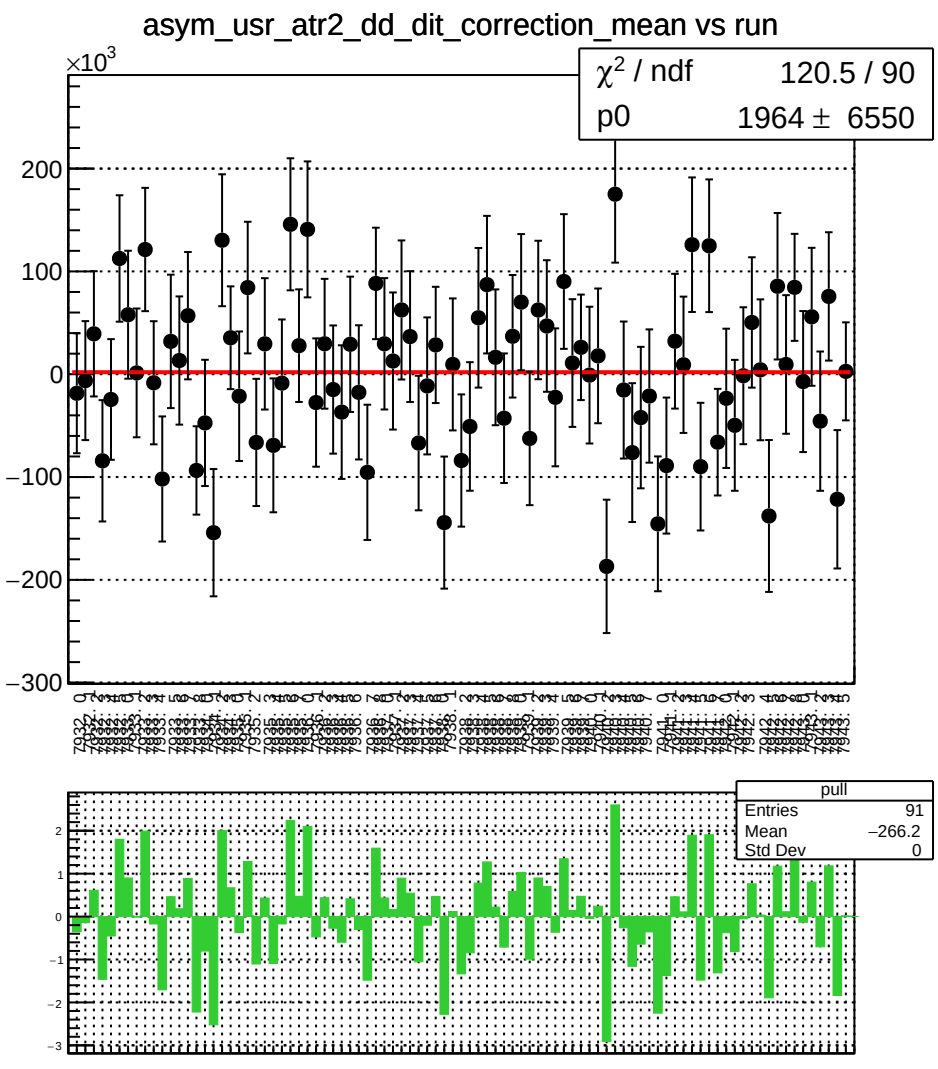

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 120 / 90
p0 1980 ± 6428
200
100
0
−100
−200
pull
Entries 91
Mean −373.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.003072
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

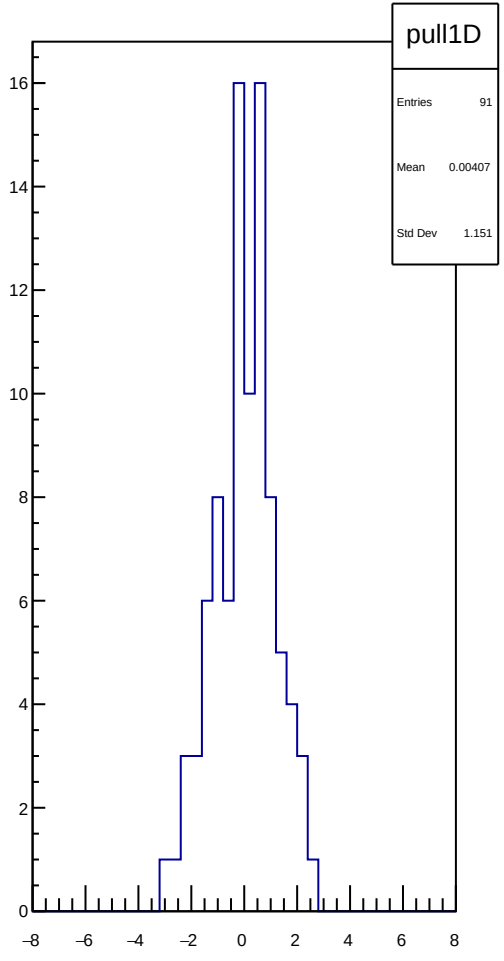

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2851 / 90
p0 6005 ± 4.545
7000
6800
6600
6400
6200
6000
5800
5600
5400

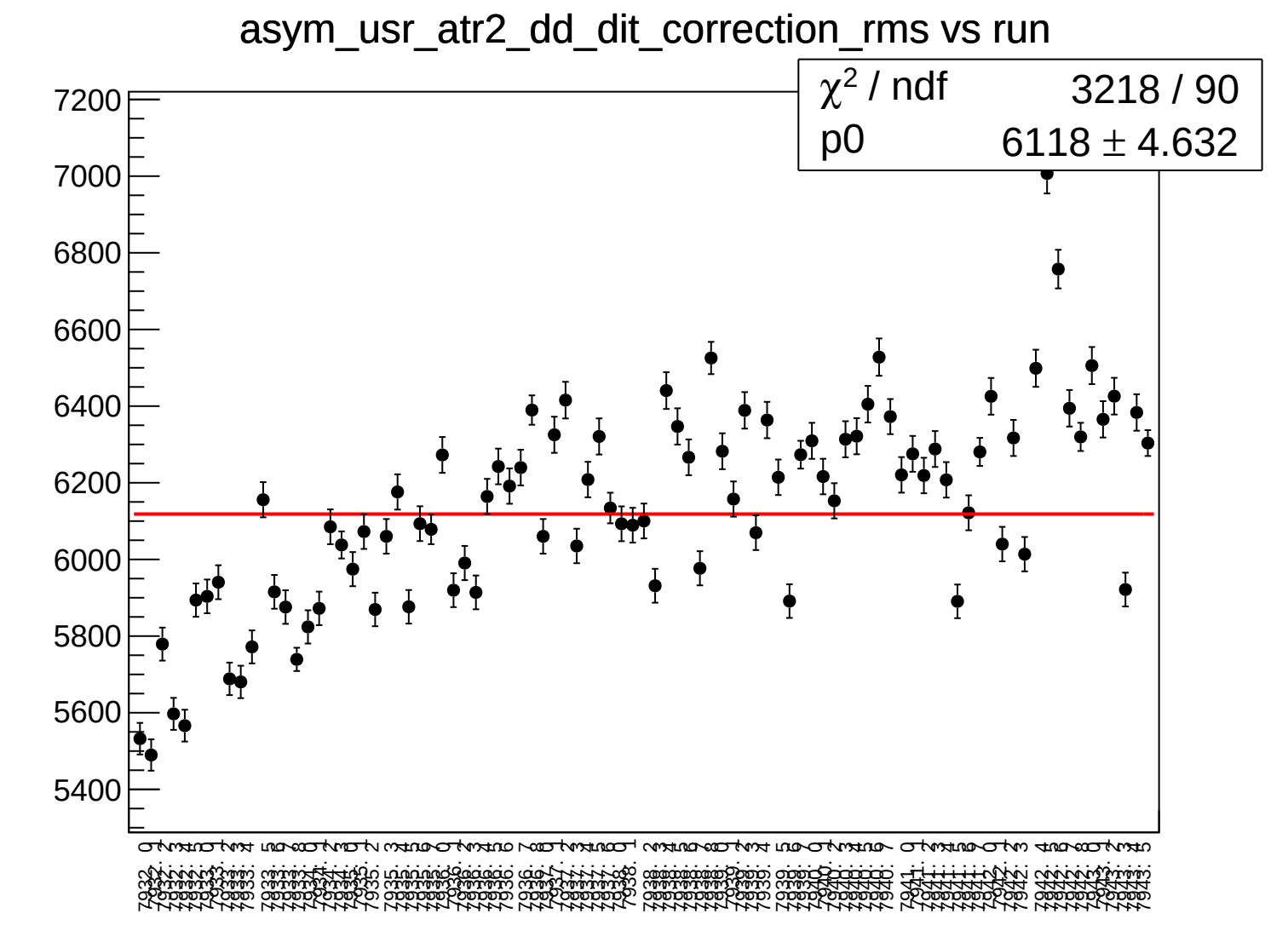

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 114.2 / 90
p0 −1179 ± 1429
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −409.4
Std Dev 0
3
2
1
0
−1
−2

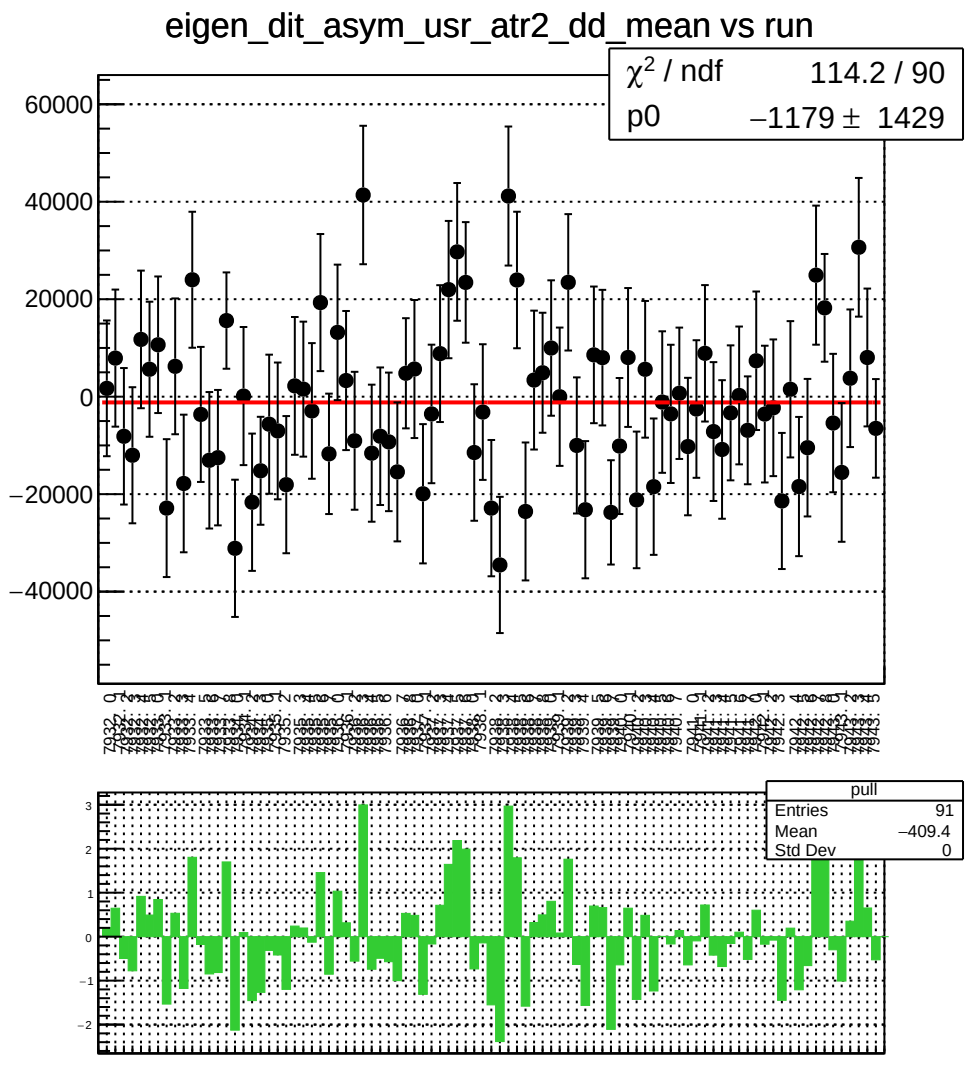

pull1D
Entries 91
Mean −0.001834
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

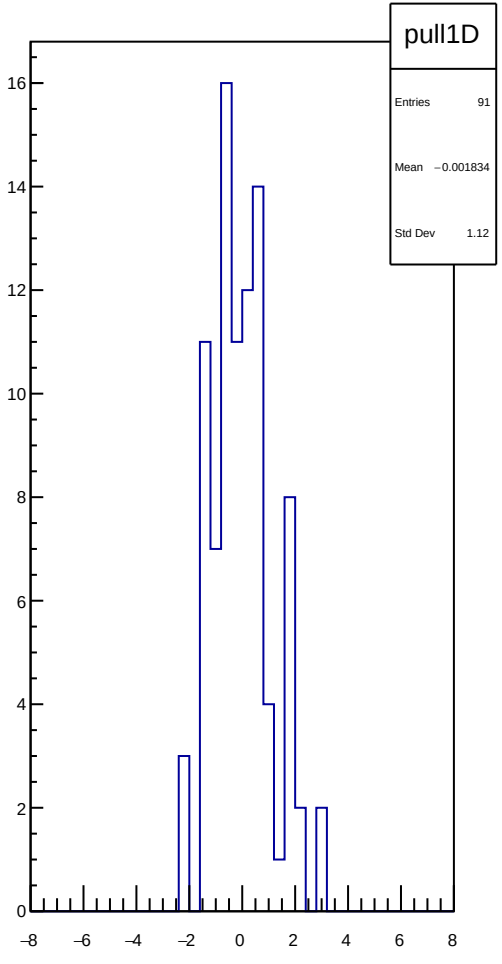

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 158.9 / 90
p0 1336 ± 1.01
1380
1360
1340
1320
1300

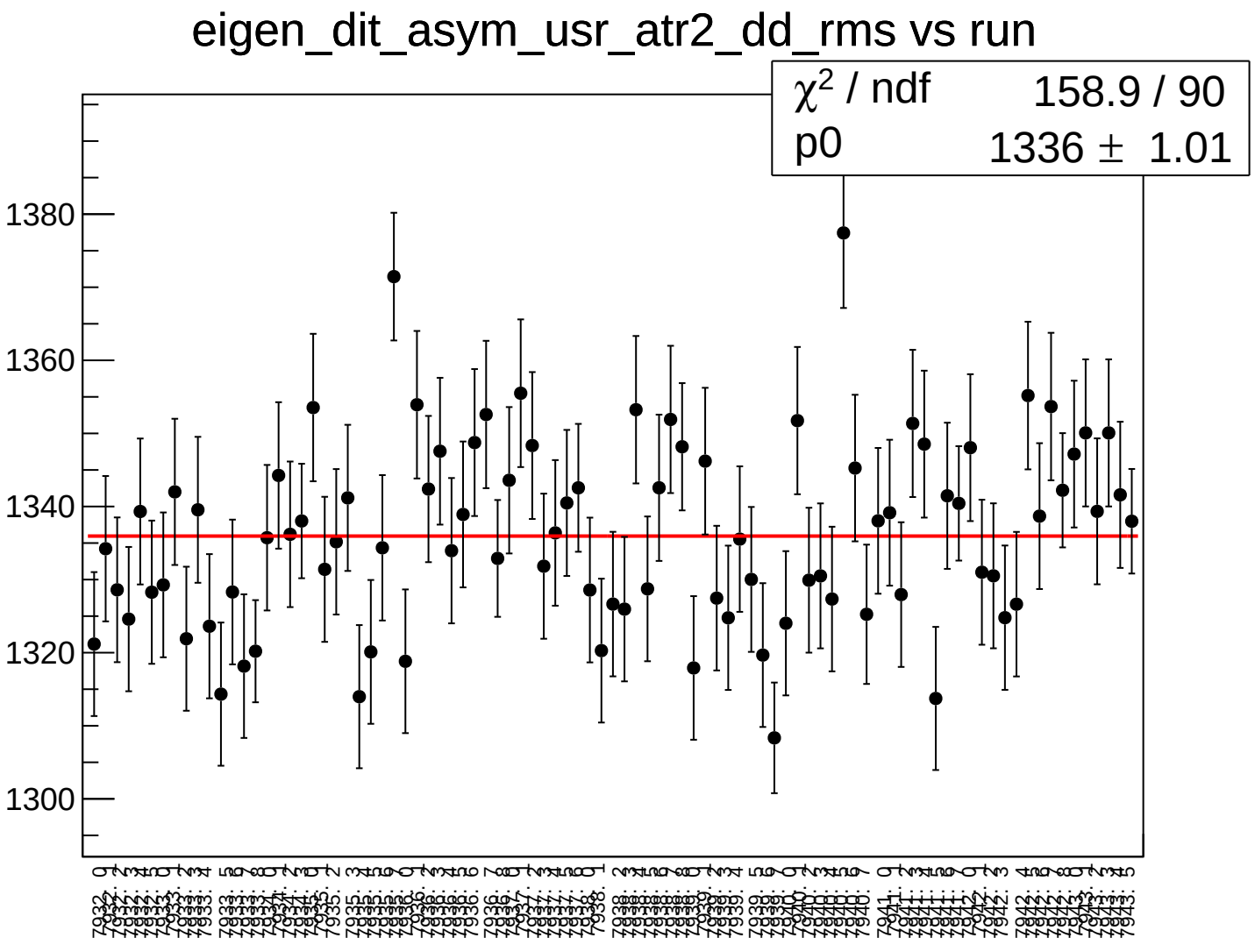

asym_usr_atr2_dd_dit_correction_mean vs run
χ^2 / ndf 120.5 / 90
p0 1964 ± 6550
×10^3
200
100
0
−100
−200
−300
pull
Entries 91
Mean −266.2
Std Dev 0
2
1
0
−1
−2
−3

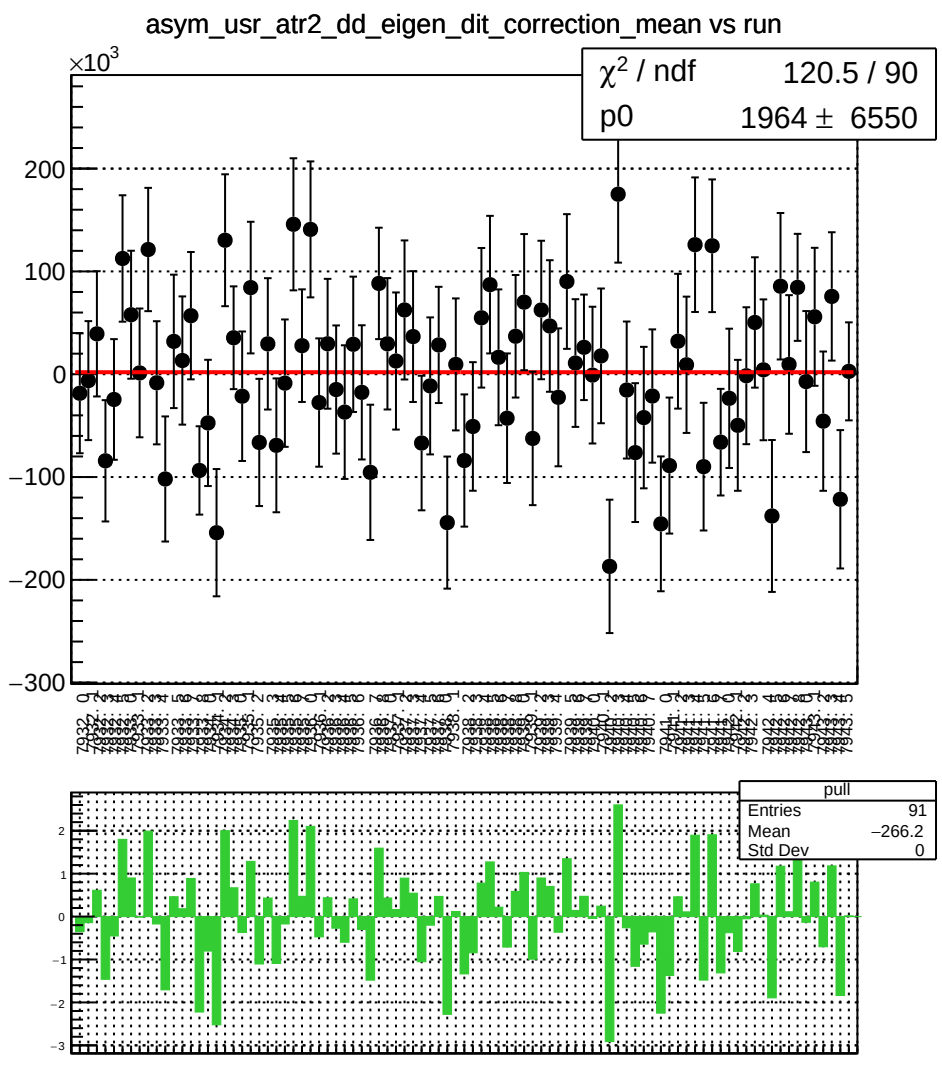

pull1D
Entries 91
Mean 0.00407
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

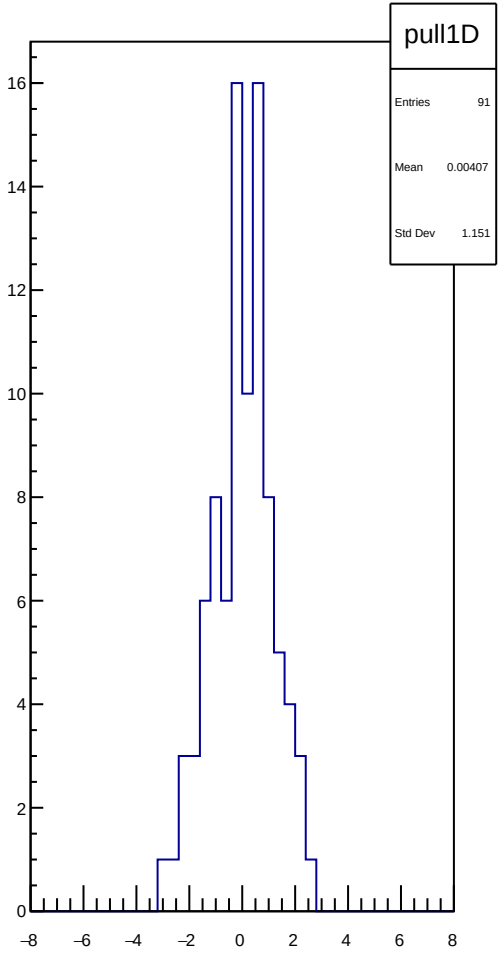

asym_usr_atr2_dd_dit_correction_rms vs run
χ^2 / ndf 3218 / 90
p0 6118 ± 4.632
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

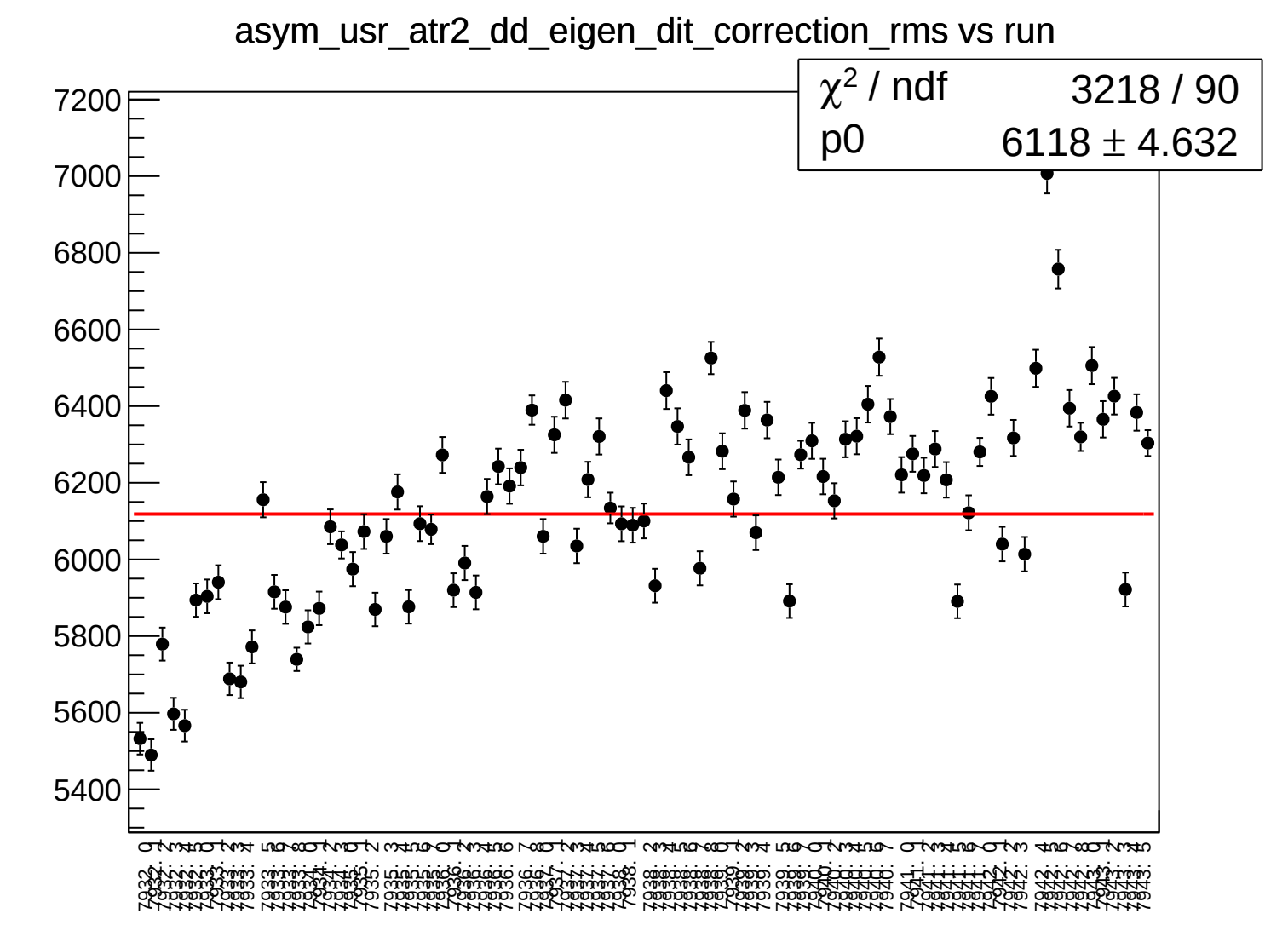

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 114.2 / 90
p0 −1179 ± 1429
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −409.4
Std Dev 0
3
2
1
0
−1
−2

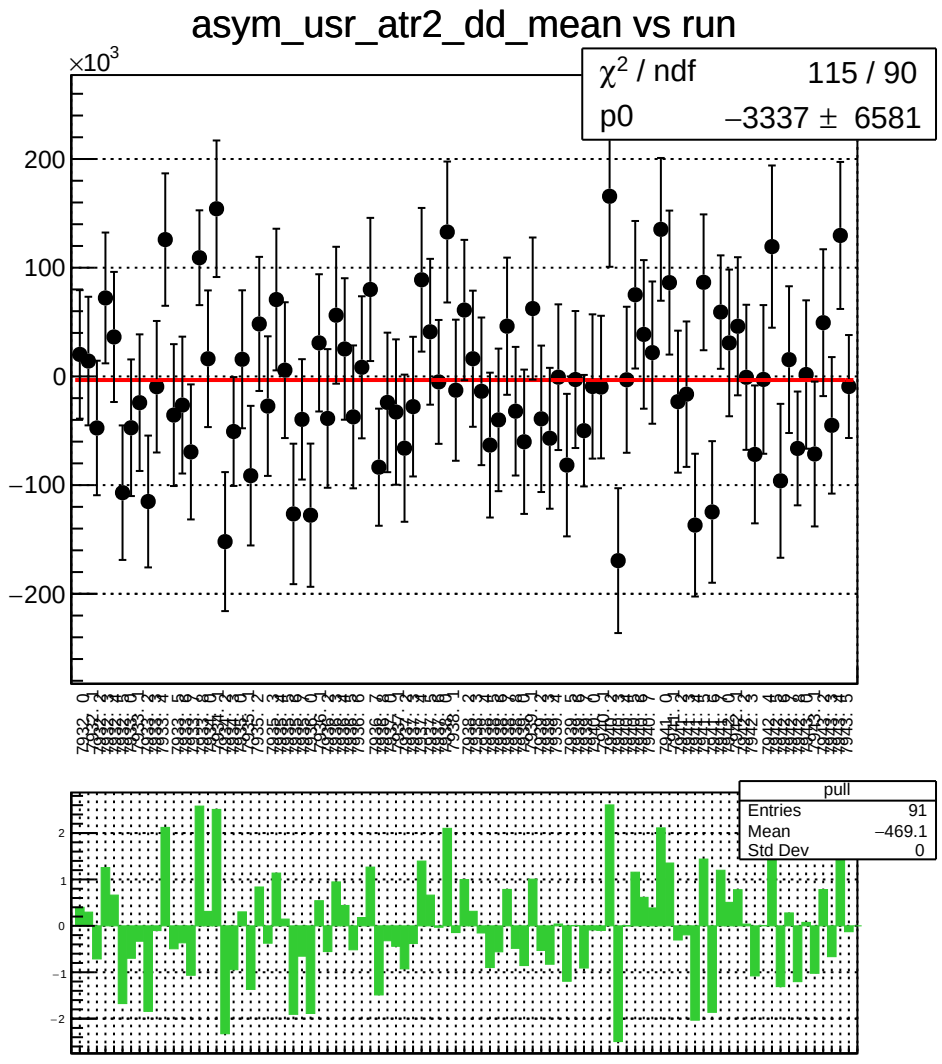

pull1D
Entries 91
Mean −0.001834
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

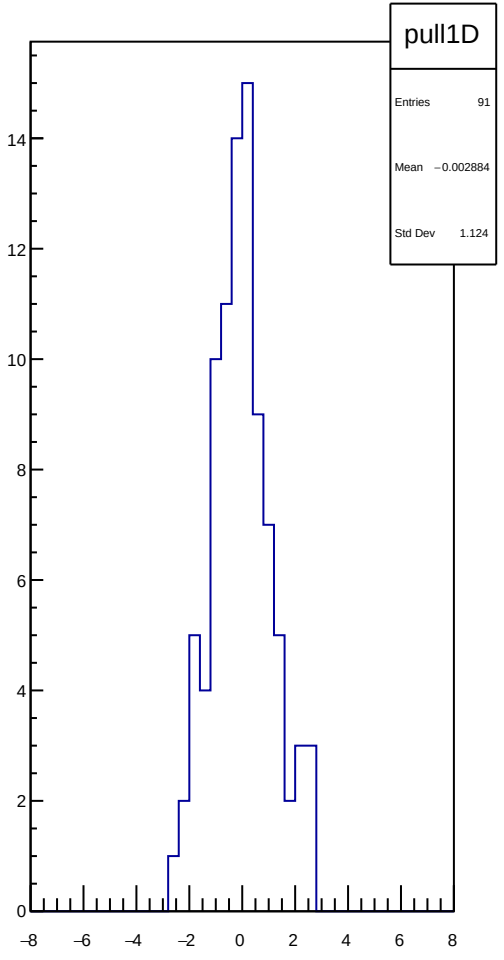

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 158.9 / 90
p0 1336 ± 1.01
1380
1360
1340
1320
1300

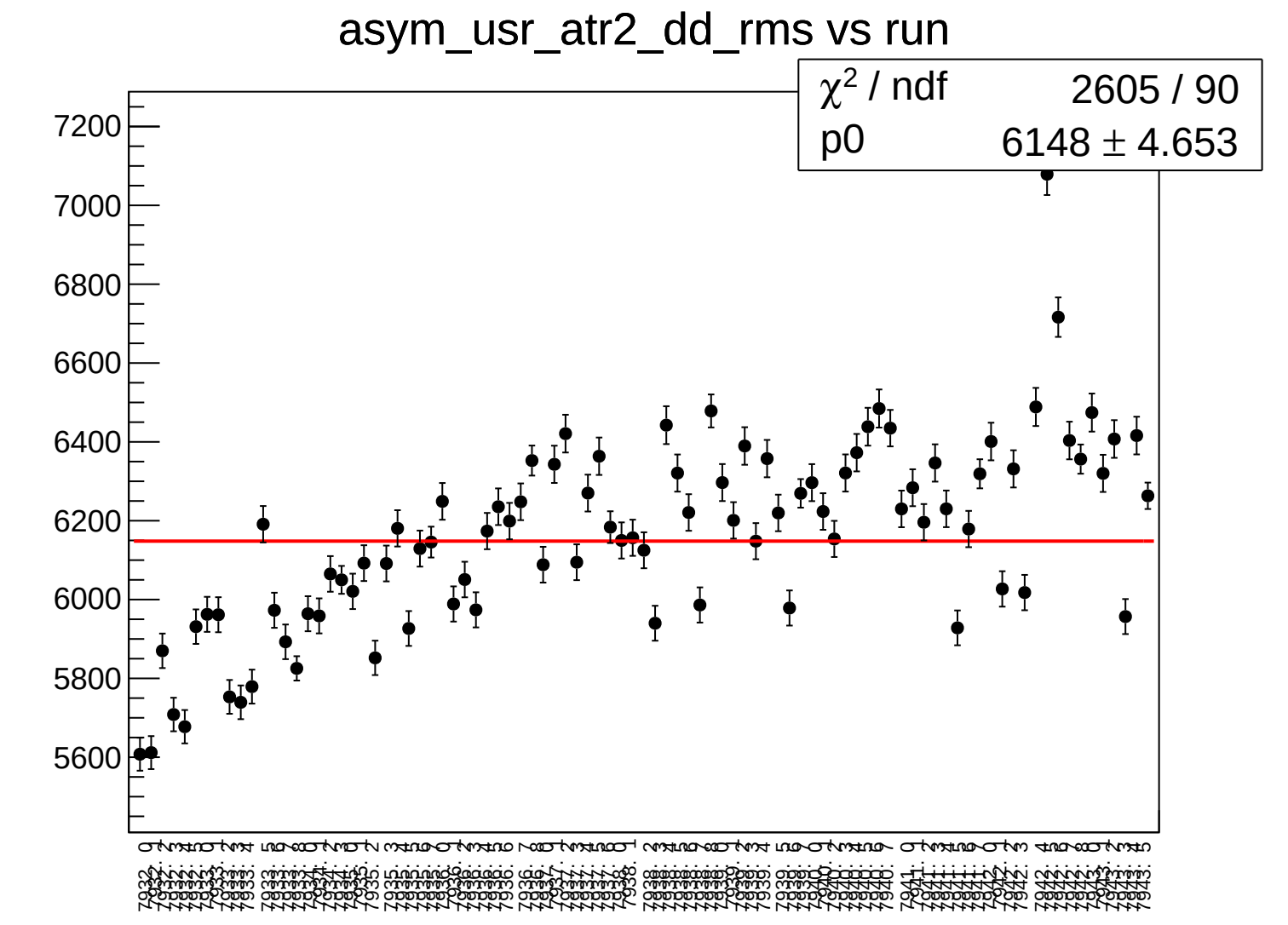

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 120.5 / 90
p0 1964 ± 6550
200
100
0
−100
−200
−300
pull
Entries 91
Mean −266.2
Std Dev 0
2
1
0
−1
−2
−3

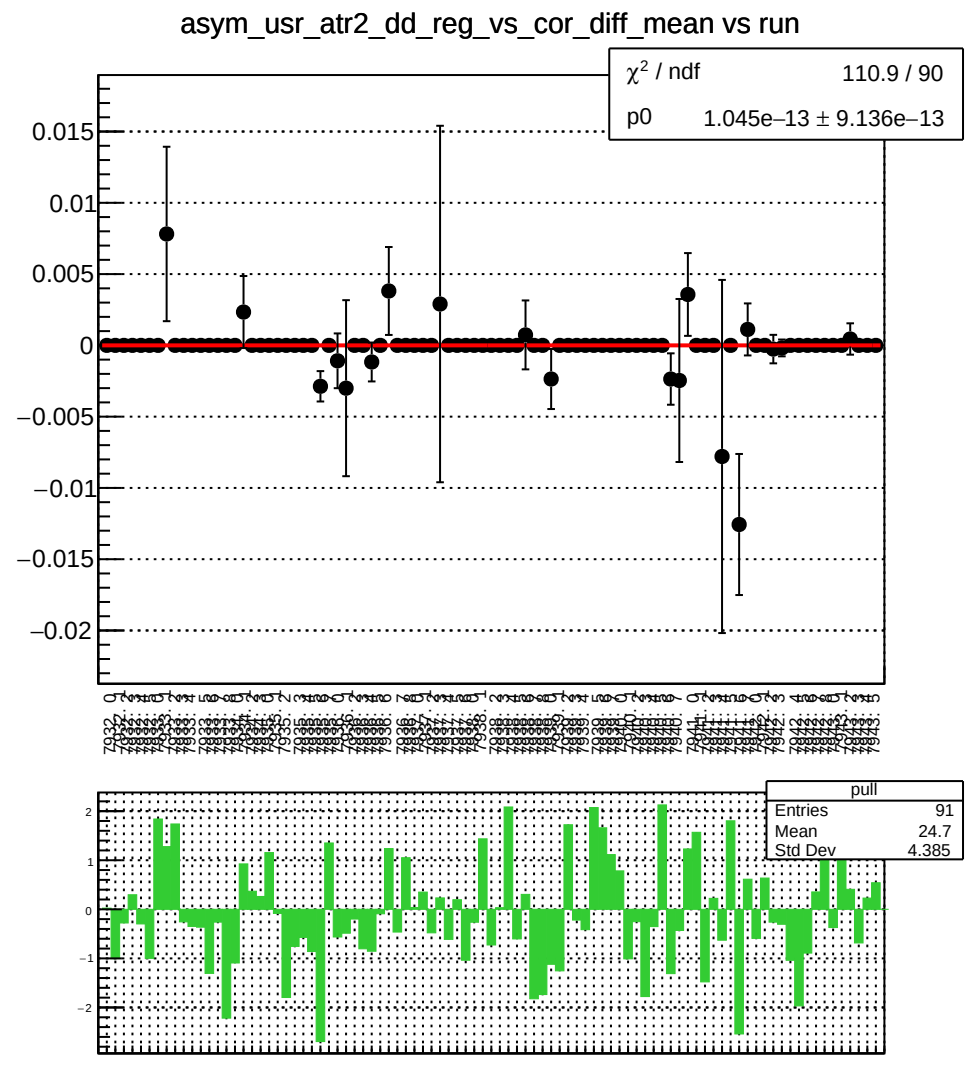

pull1D
Entries 91
Mean 0.00407
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

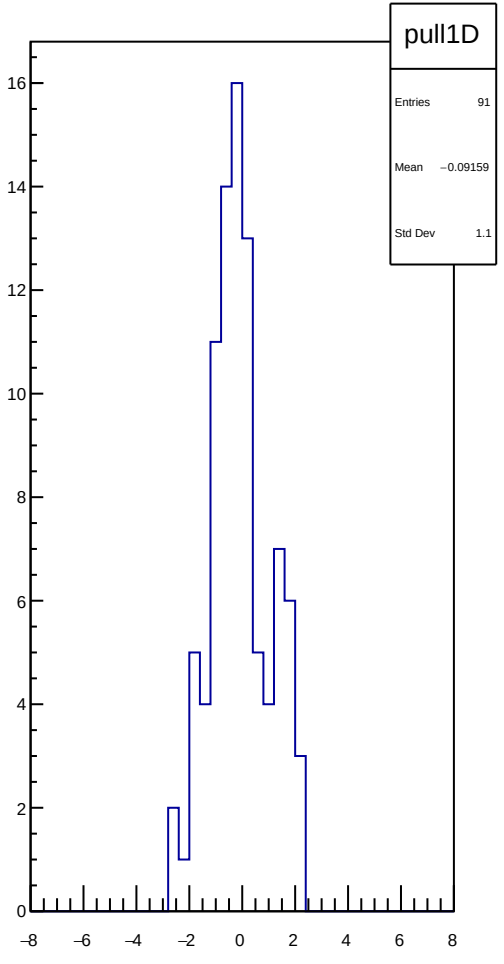

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3218 / 90
p0 6118 ± 4.632
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

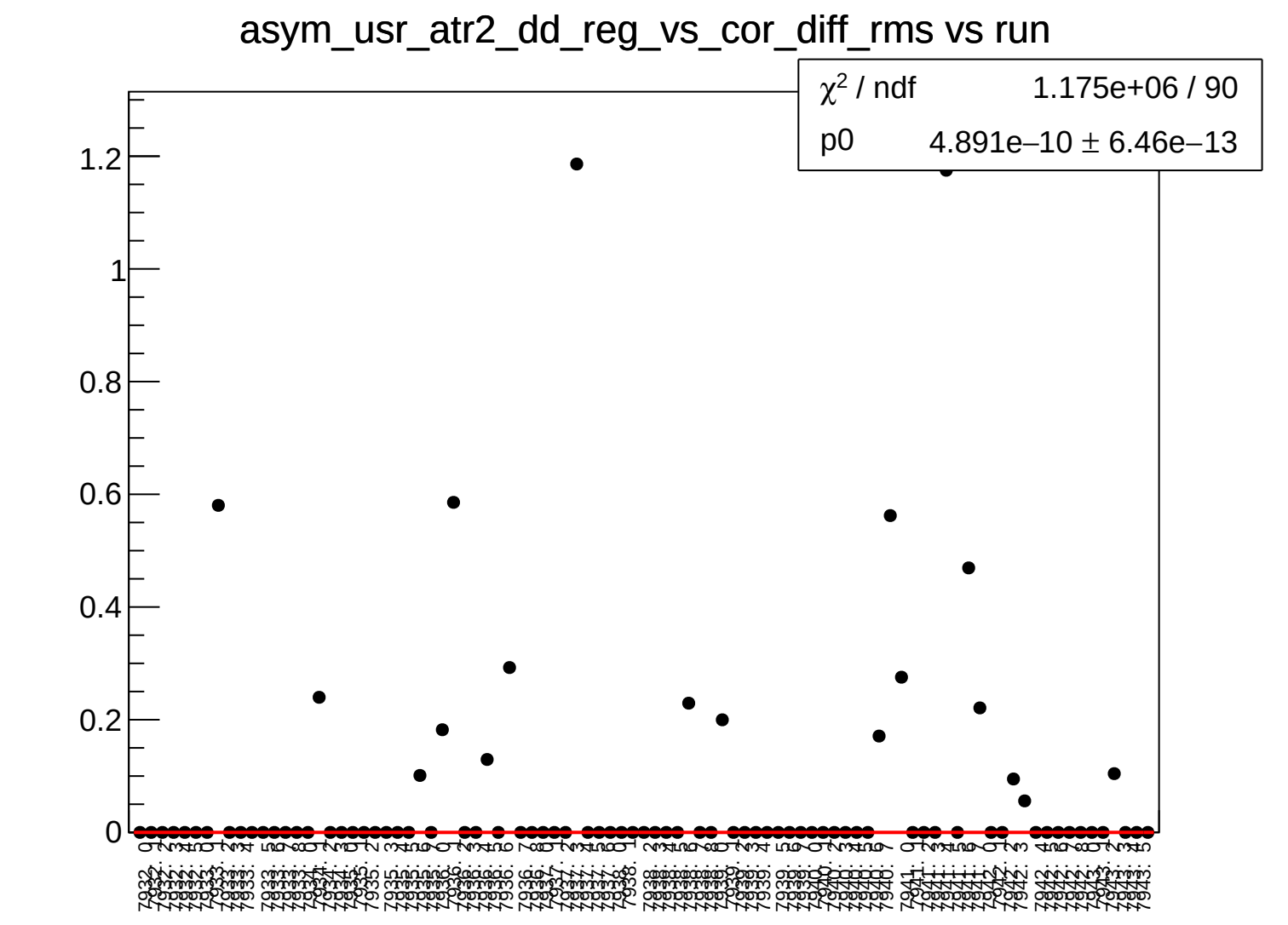

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 115 / 90
p0 −3337 ± 6581
200
100
0
−100
−200
pull
Entries 91
Mean −469.1
Std Dev 0
2
1
0
−1
−2

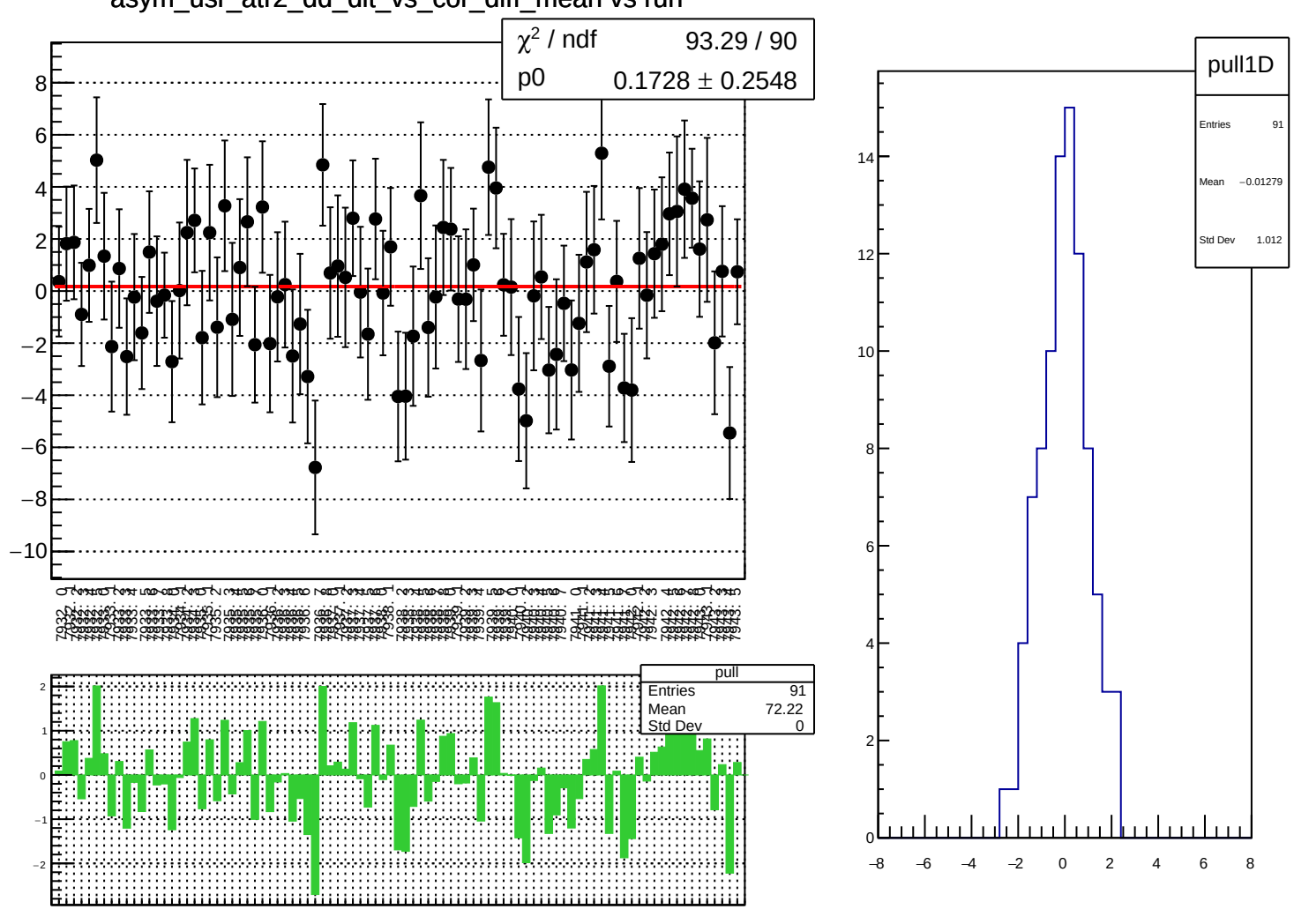

pull1D
Entries 91
Mean −0.002884
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

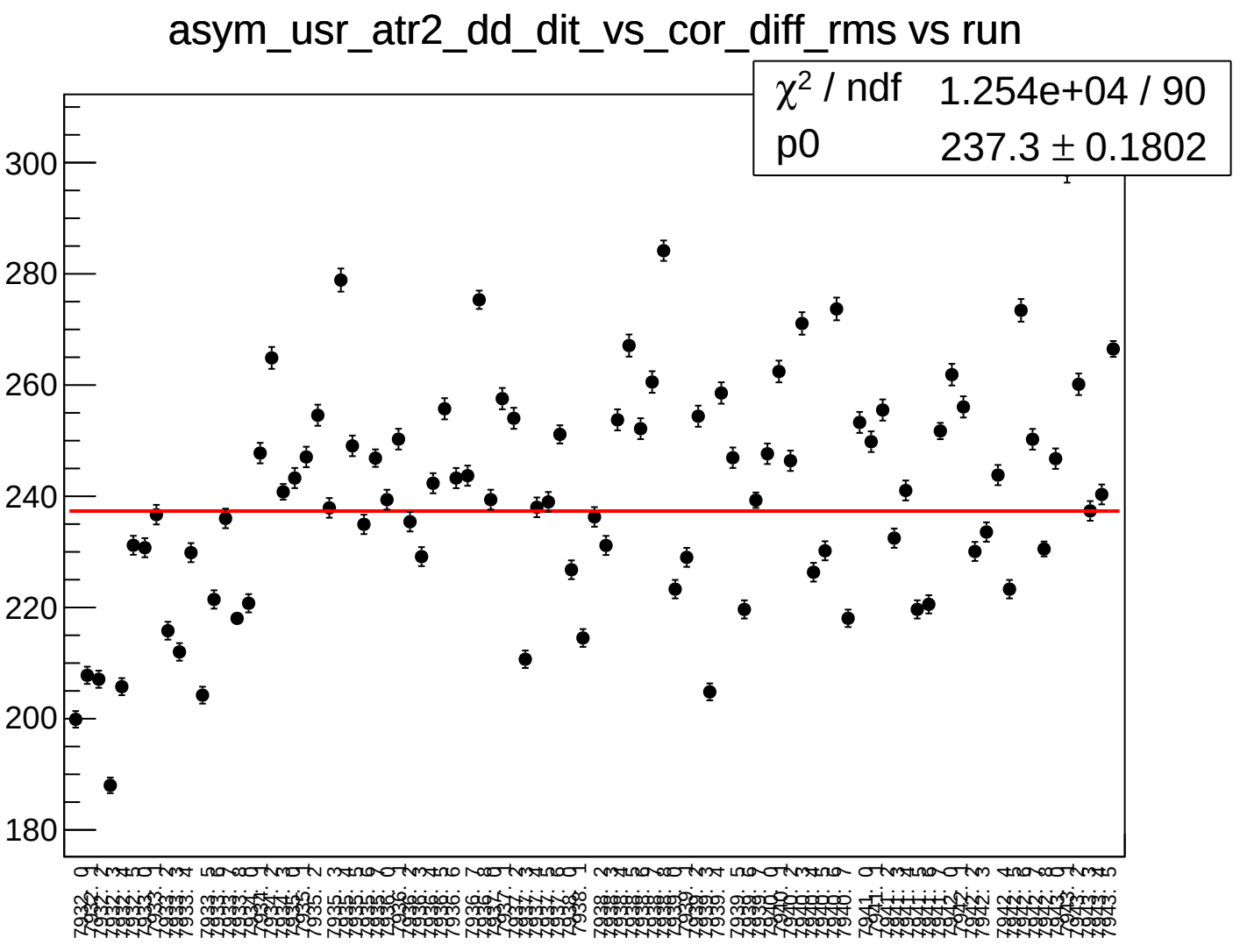

asym_usr_atr2_dd_rms vs run
χ² / ndf 2605 / 90
p0 6148 ± 4.653
7200
7000
6800
6600
6400
6200
6000
5800
5600

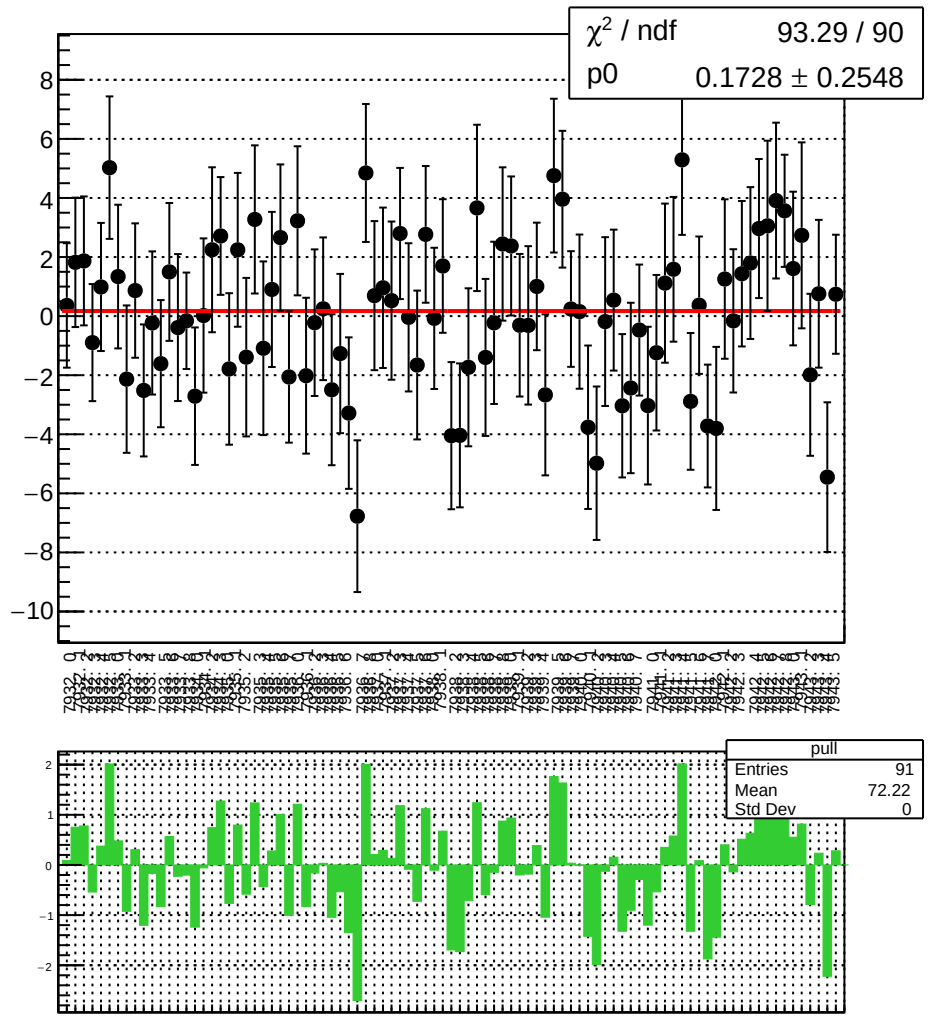

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 90
p0 1.045e−13 ± 9.136e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 24.7
Std Dev 4.385
2
1
0
−1
−2

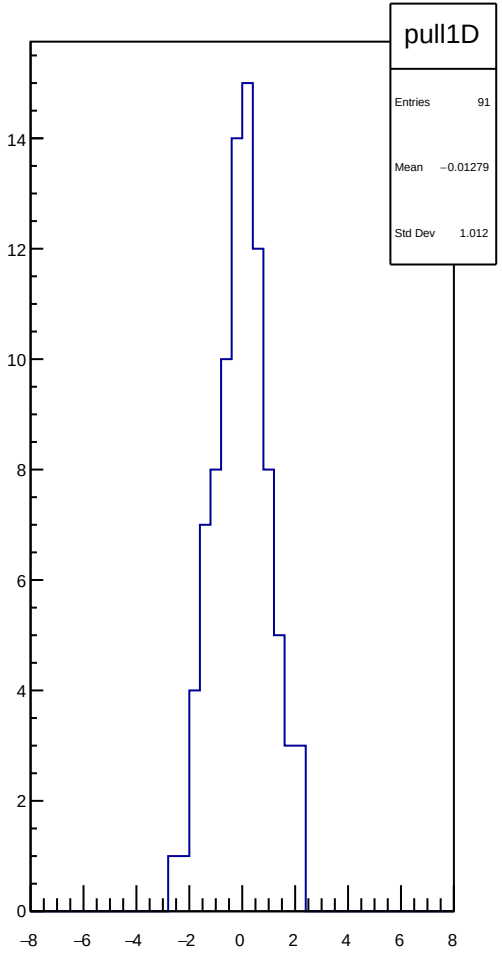

pull1D
Entries 91
Mean −0.09159
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

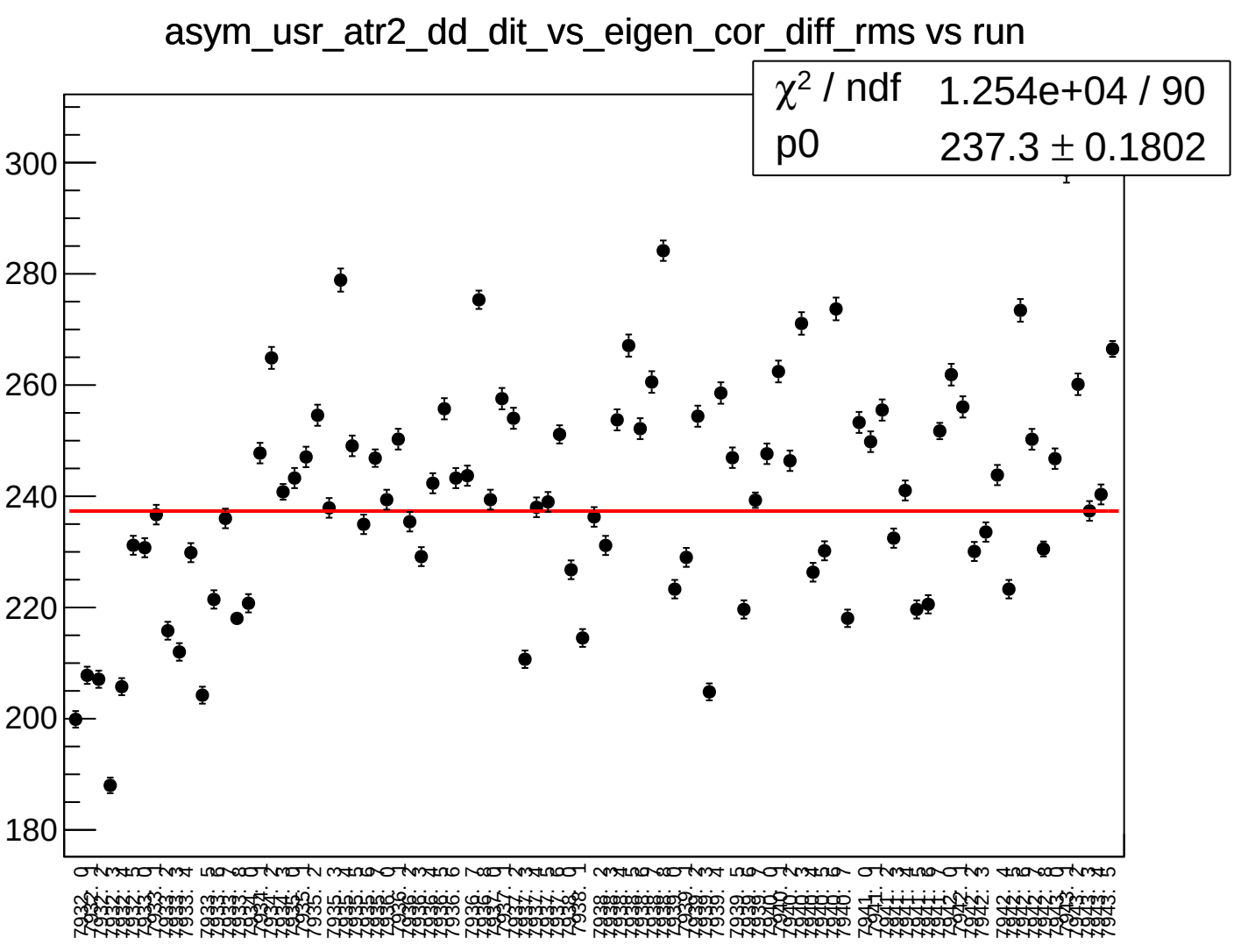

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 90
p0 4.891e−10 ± 6.46e−13
1.2
1
0.8
0.6
0.4
0.2
0

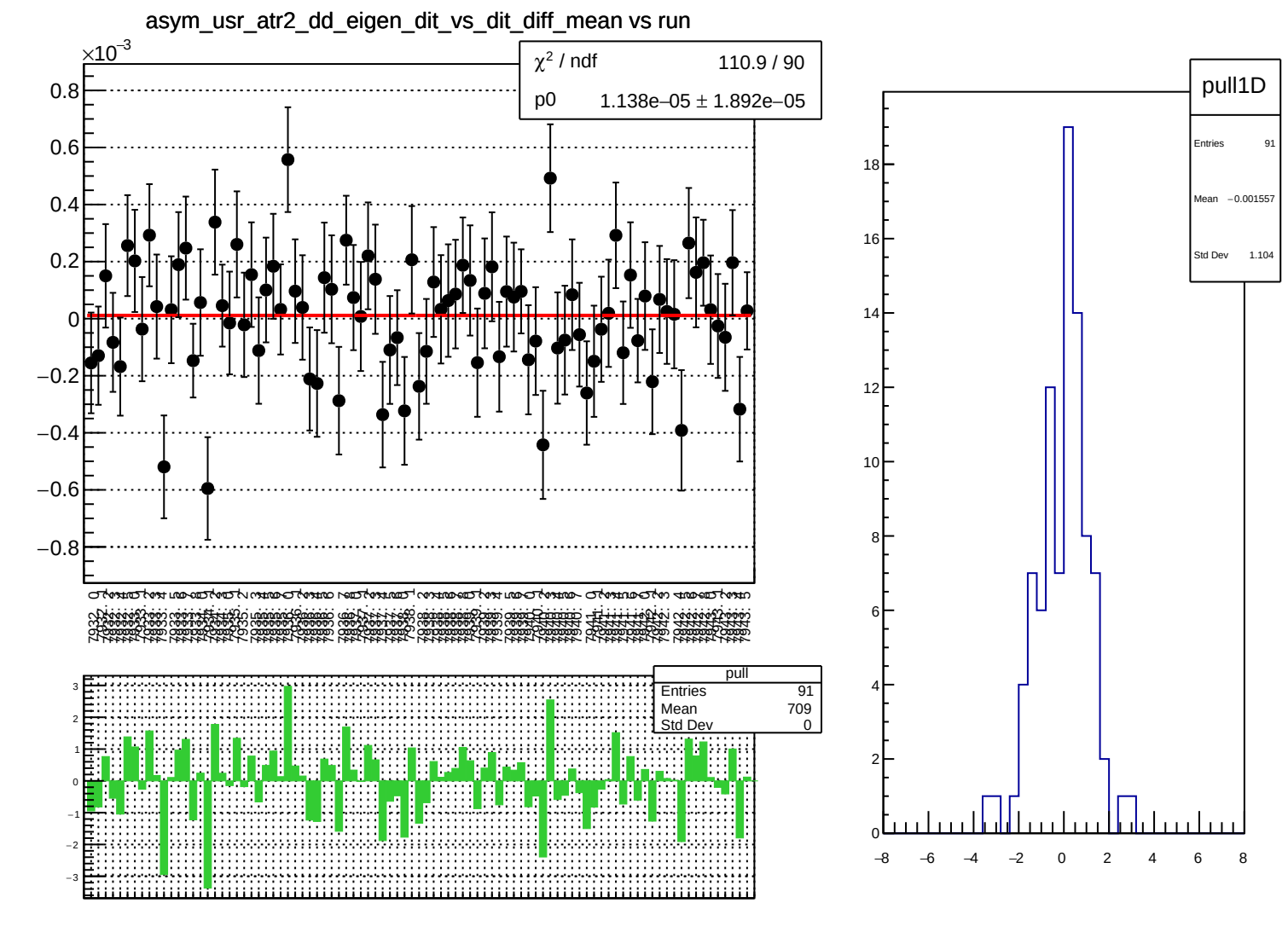

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.29 / 90
p0 0.1728 ± 0.2548
pull
Entries 91
Mean 72.22
Std Dev 0
pull1D
Entries 91
Mean −0.01279
Std Dev 1.012

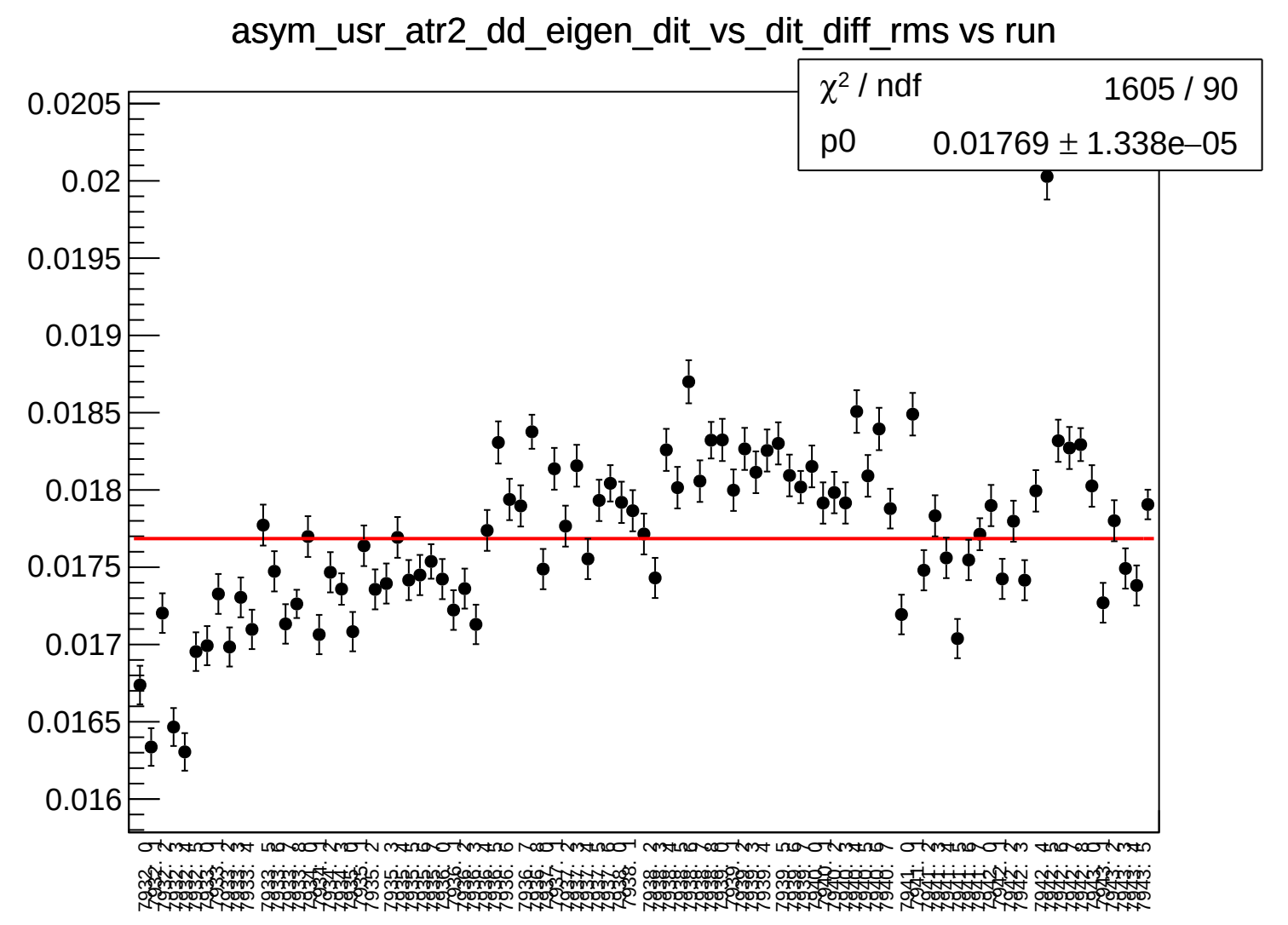

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.254e+04 / 90
p0 237.3 ± 0.1802
300
280
260
240
220
200
180

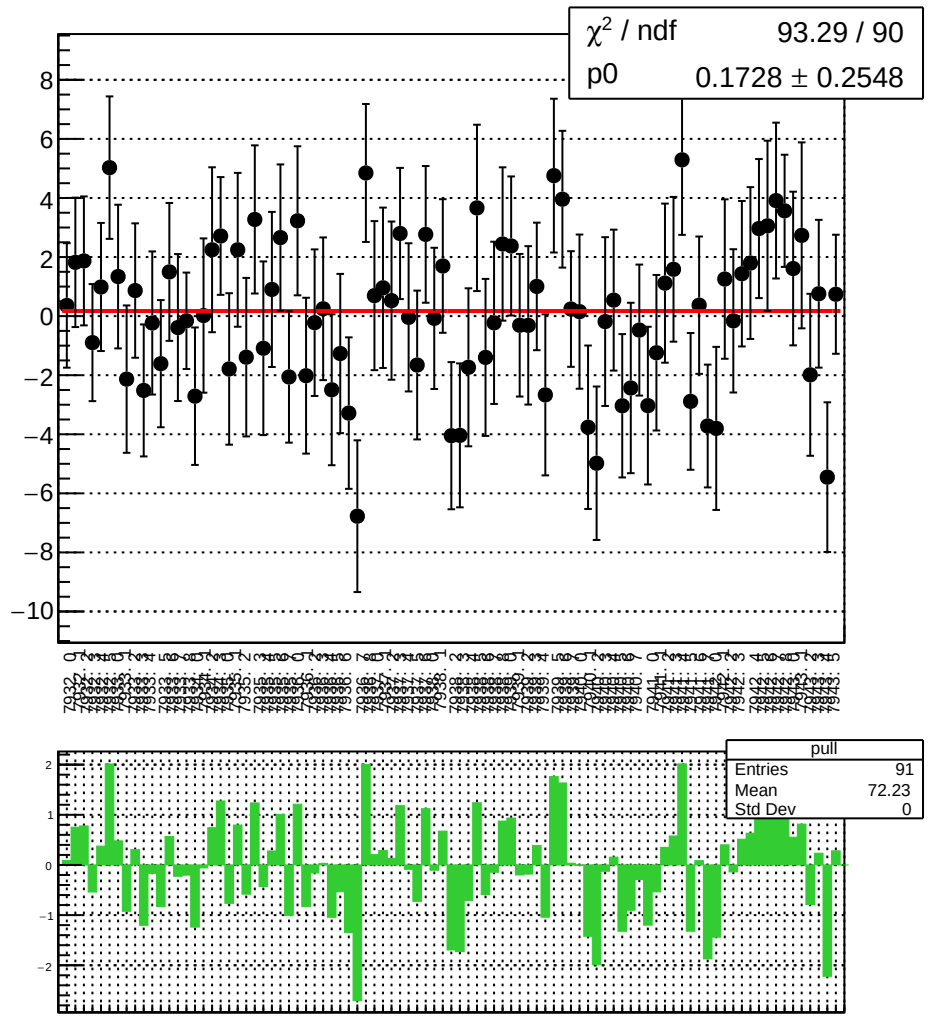

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.29 / 90
p0 0.1728 ± 0.2548
pull
Entries 91
Mean 72.22
Std Dev 0

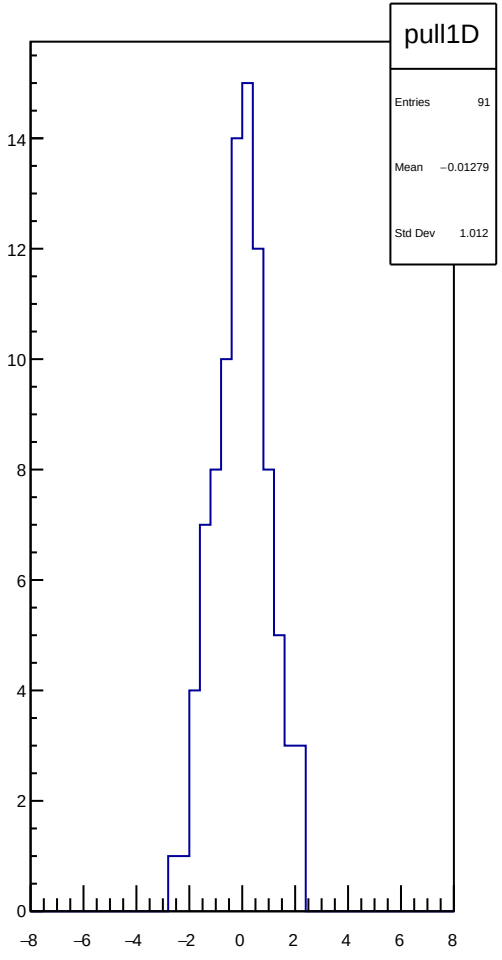

pull1D
Entries 91
Mean −0.01279
Std Dev 1.012

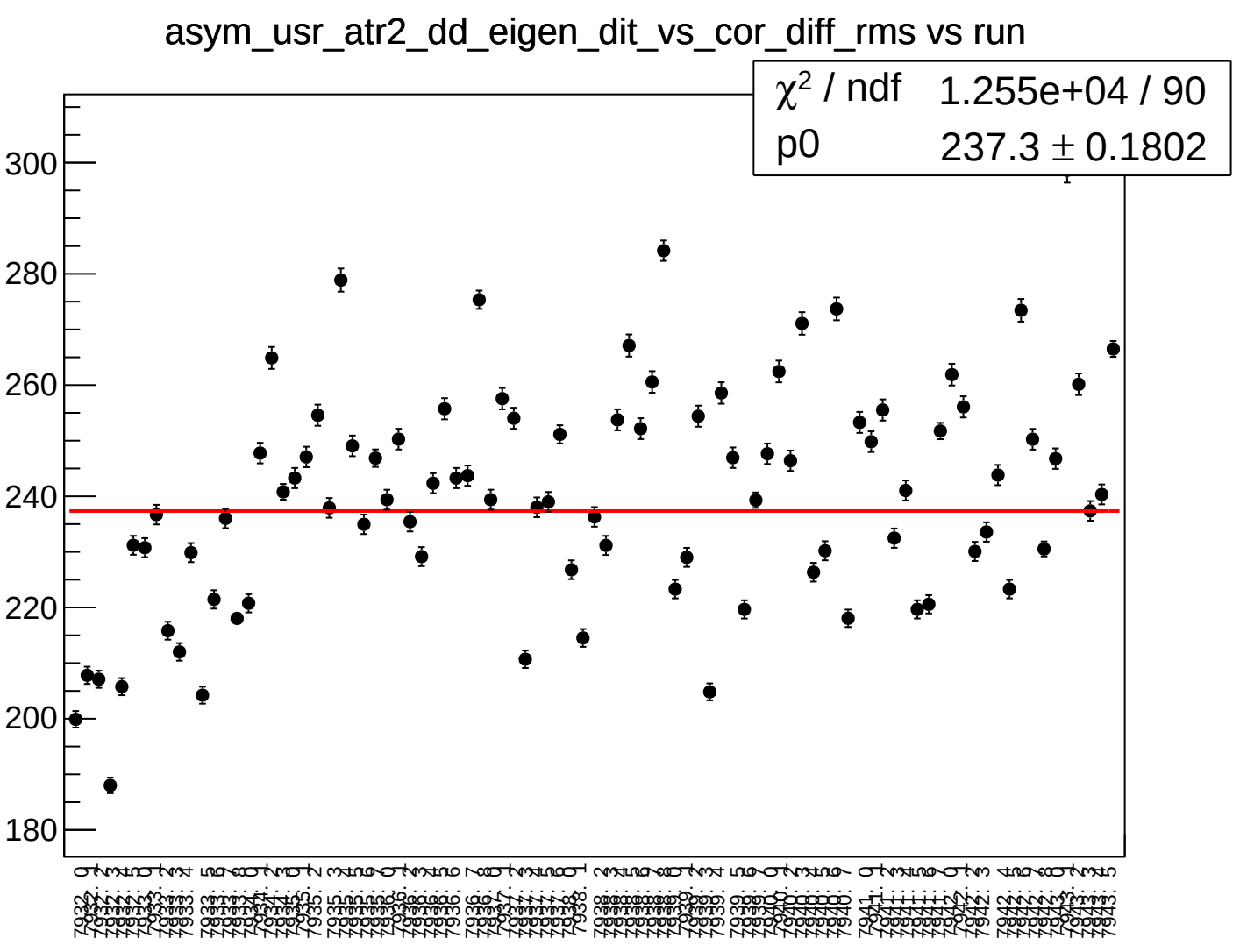

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.254e+04 / 90
p0 237.3 ± 0.1802
300
280
260
240
220
200
180

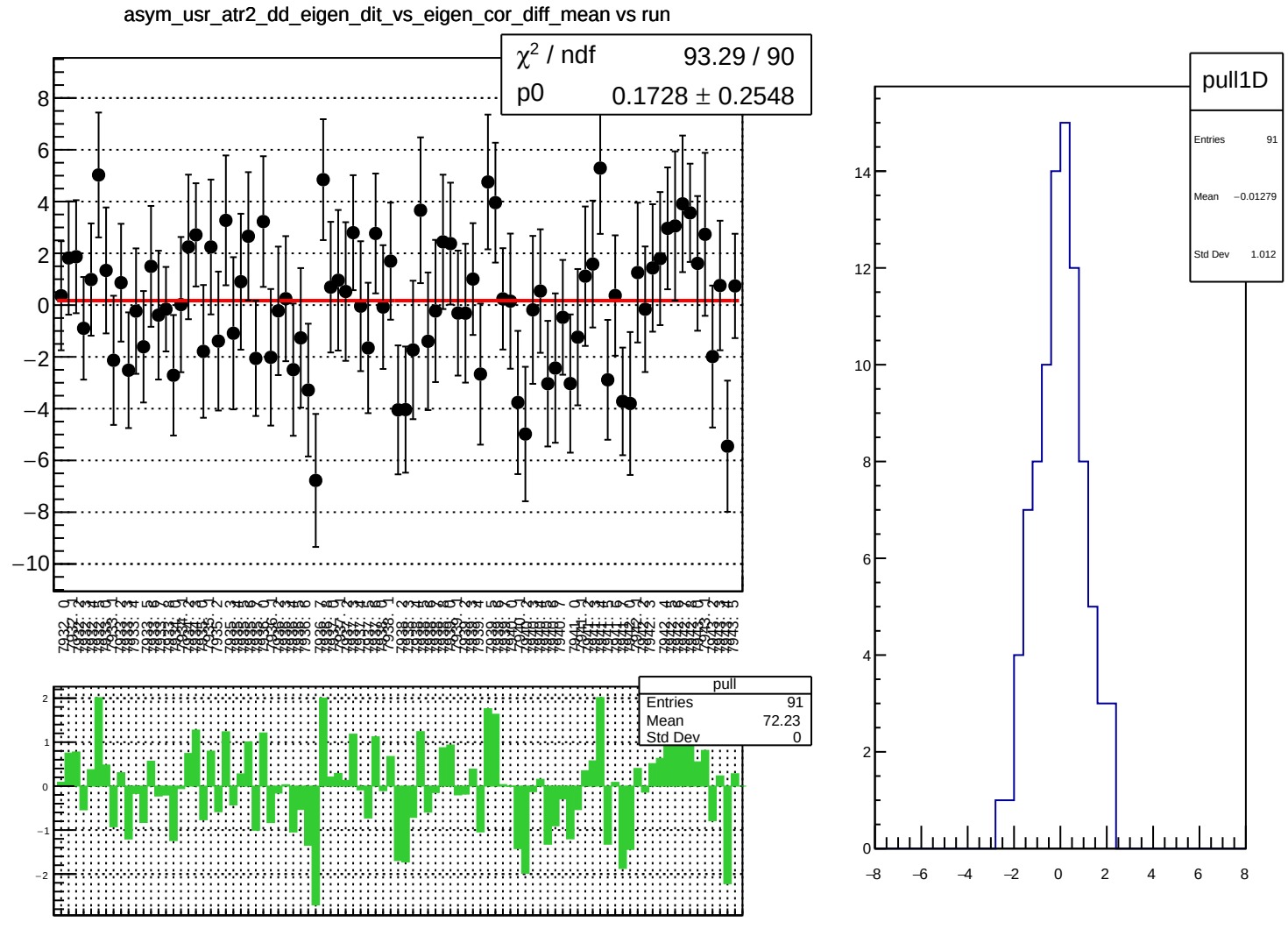

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.9 / 90
p0 1.138e−05 ± 1.892e−05
pull
Entries 91
Mean 709
Std Dev 0
pull1D
Entries 91
Mean −0.001557
Std Dev 1.104

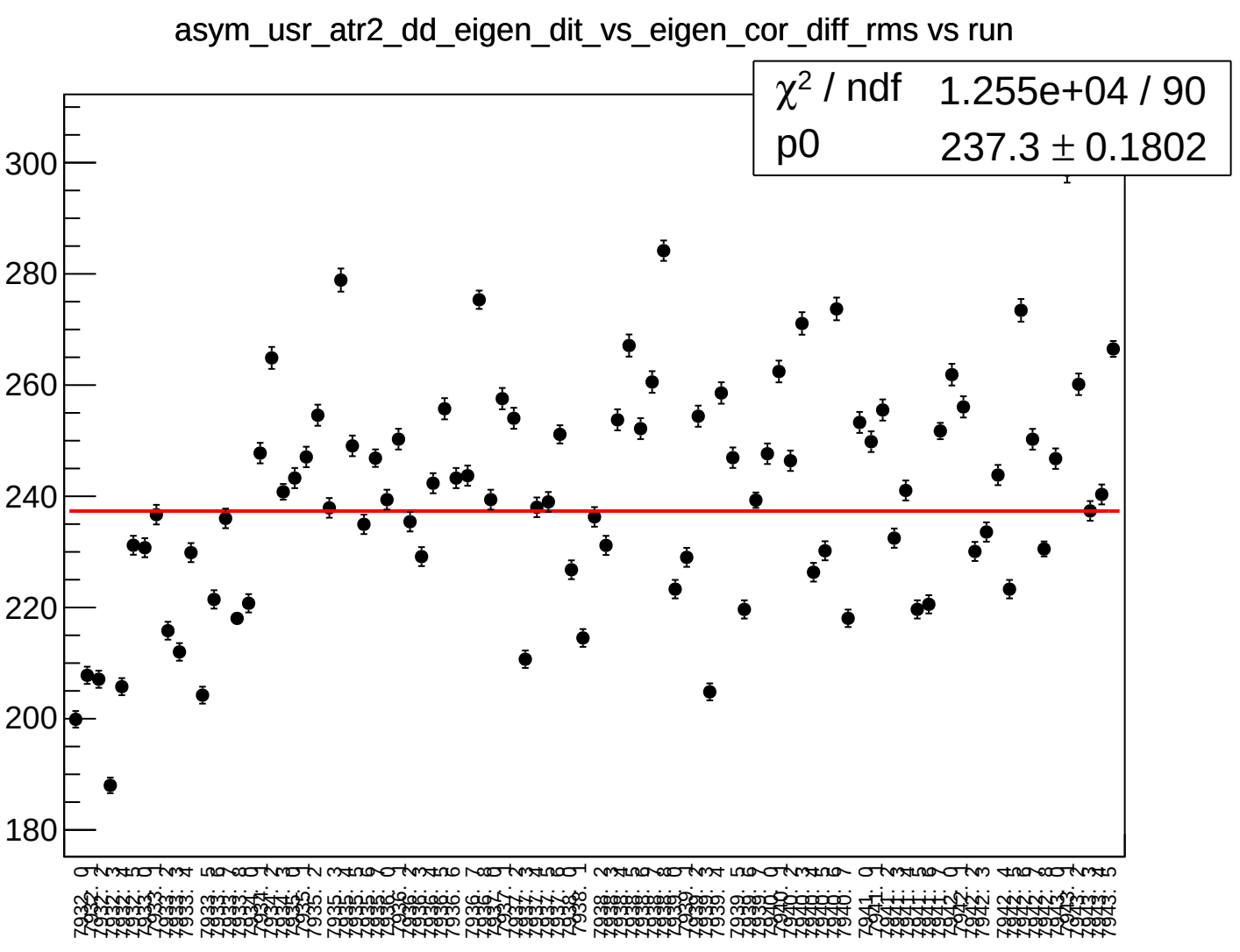

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1605 / 90
p0 0.01769 ± 1.338e−05
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017
0.0165
0.016

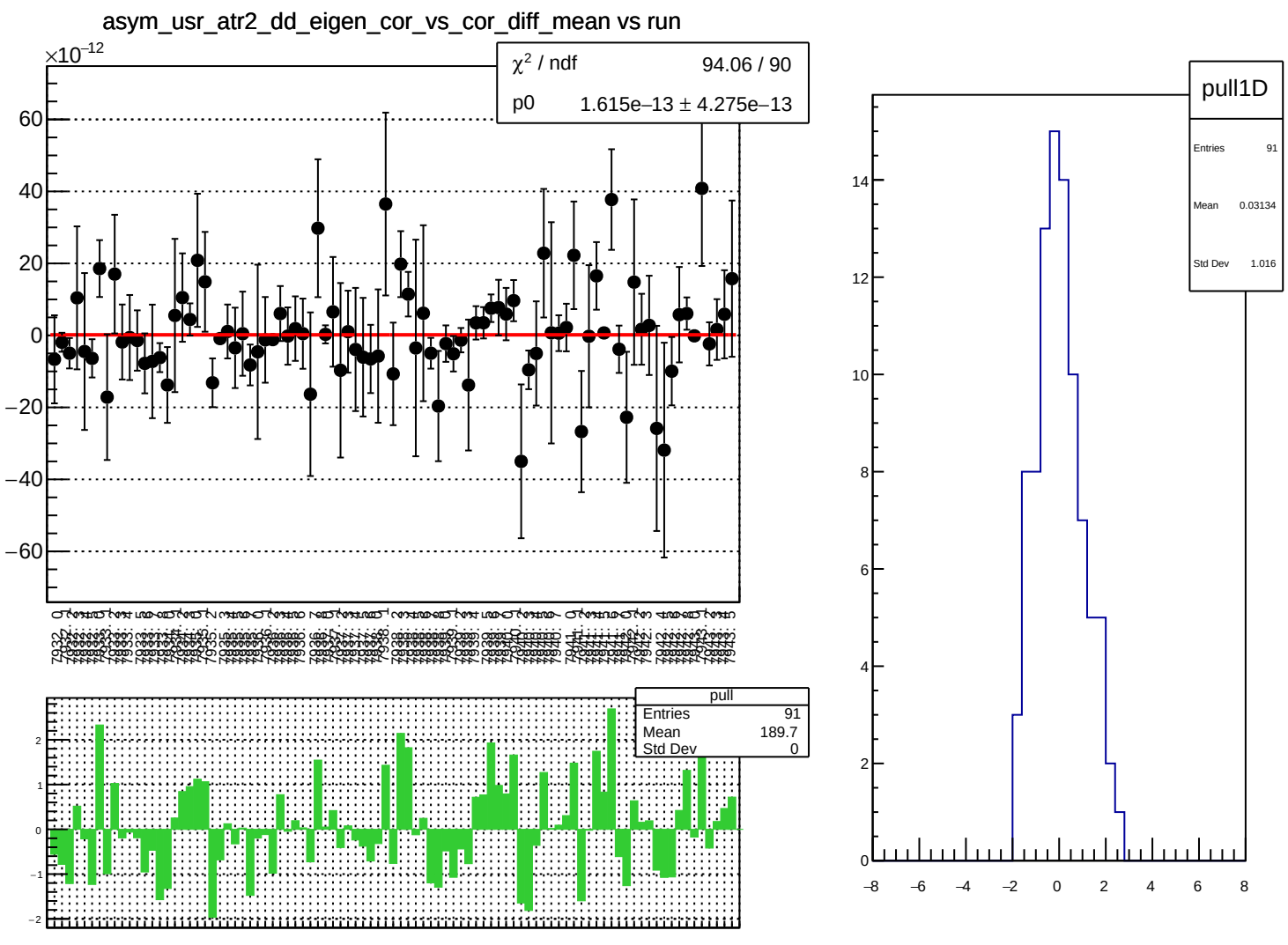

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.29 / 90
p0 0.1728 ± 0.2548
pull
Entries 91
Mean 72.23
Std Dev 0

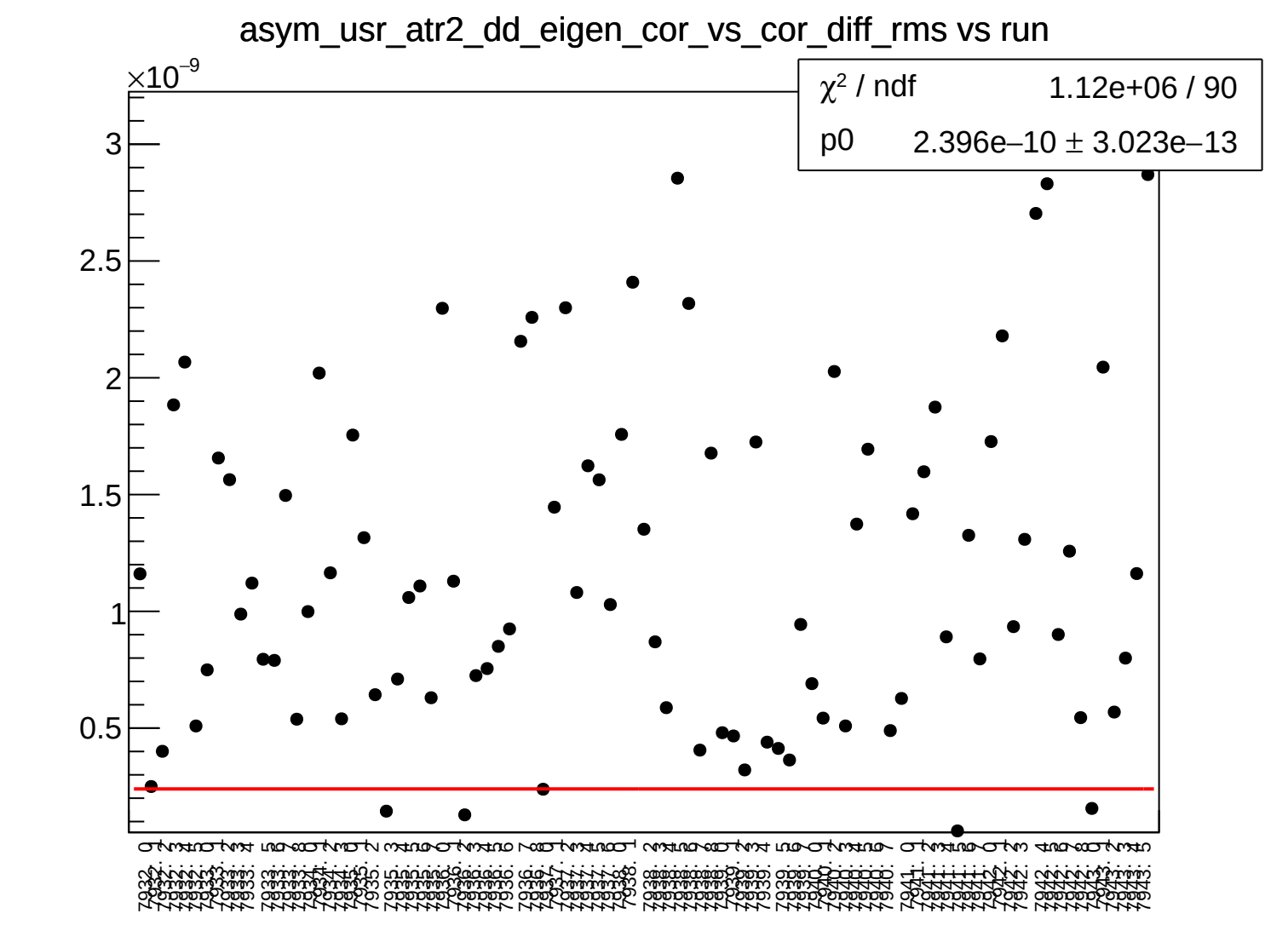

pull1D
Entries 91
Mean −0.01279
Std Dev 1.012

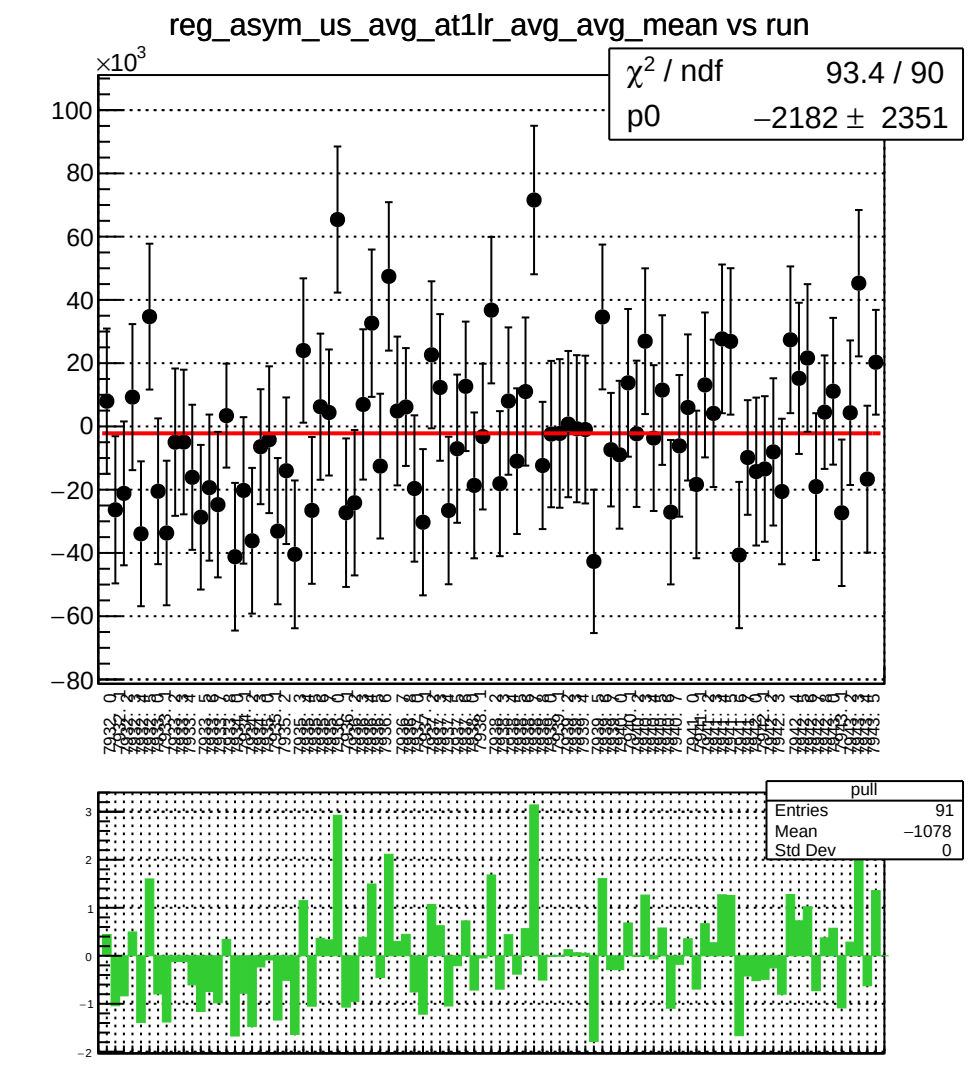

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.255e+04 / 90
p0 237.3 ± 0.1802
300
280
260
240
220
200
180

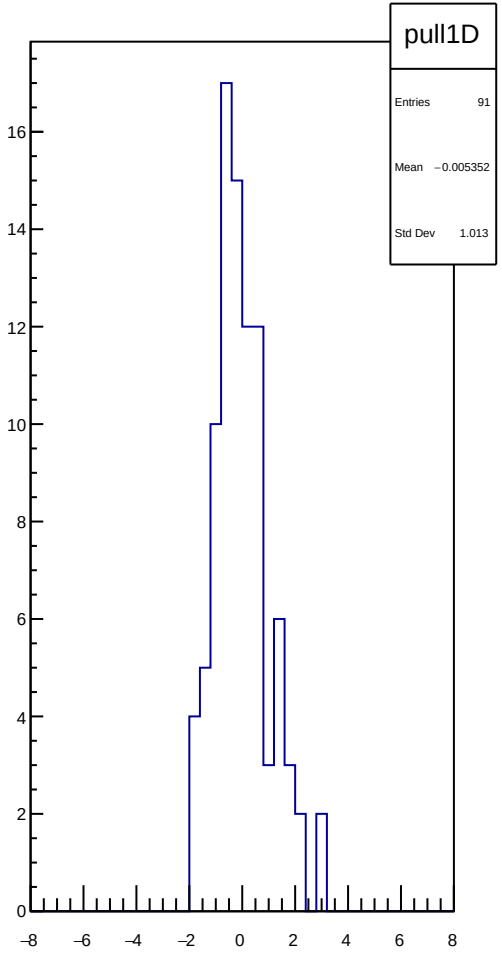

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.29 / 90
p0 0.1728 ± 0.2548
pull
Entries 91
Mean 72.23
Std Dev 0
pull1D
Entries 91
Mean −0.01279
Std Dev 1.012

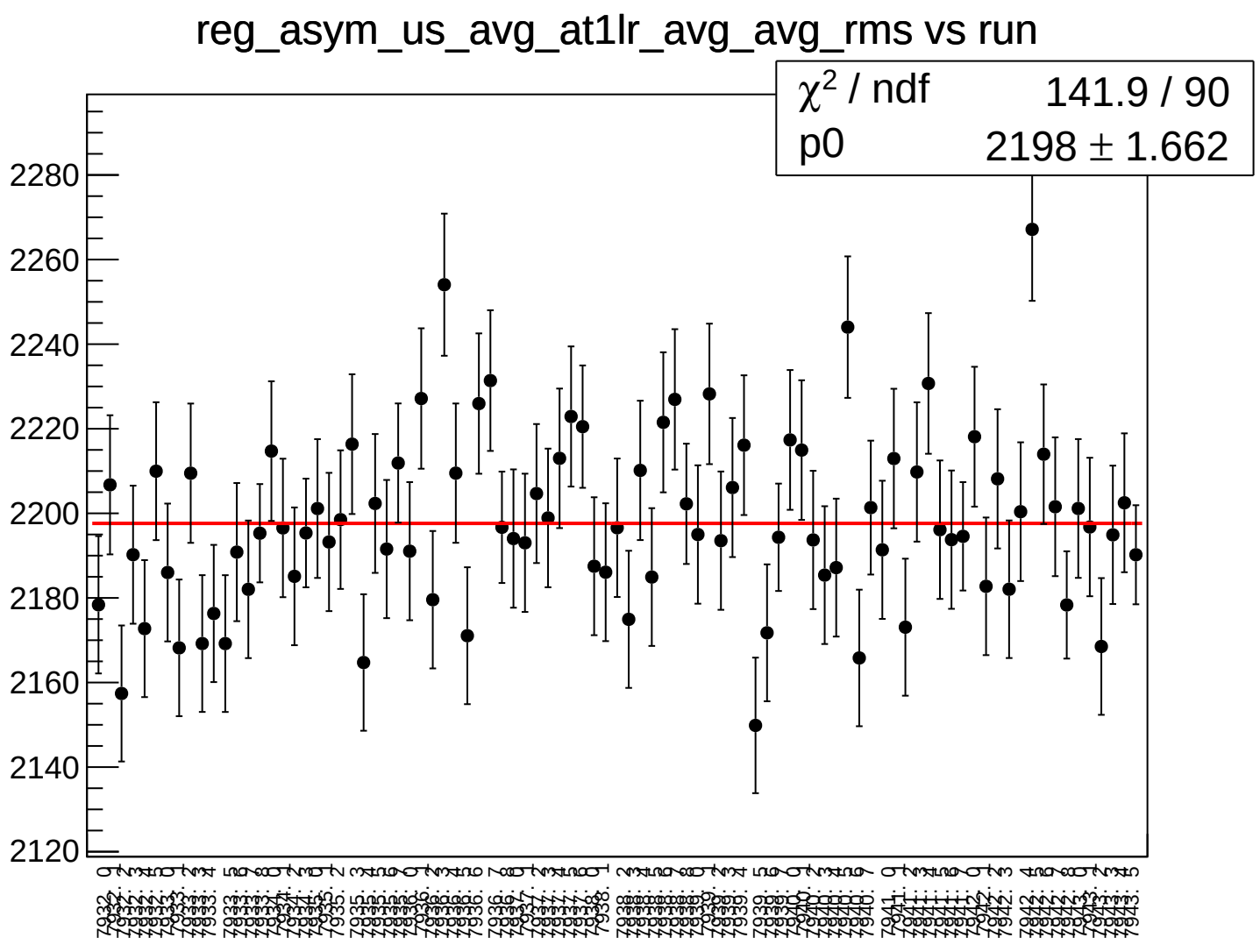

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.255e+04 / 90
p0 237.3 ± 0.1802
300
280
260
240
220
200
180

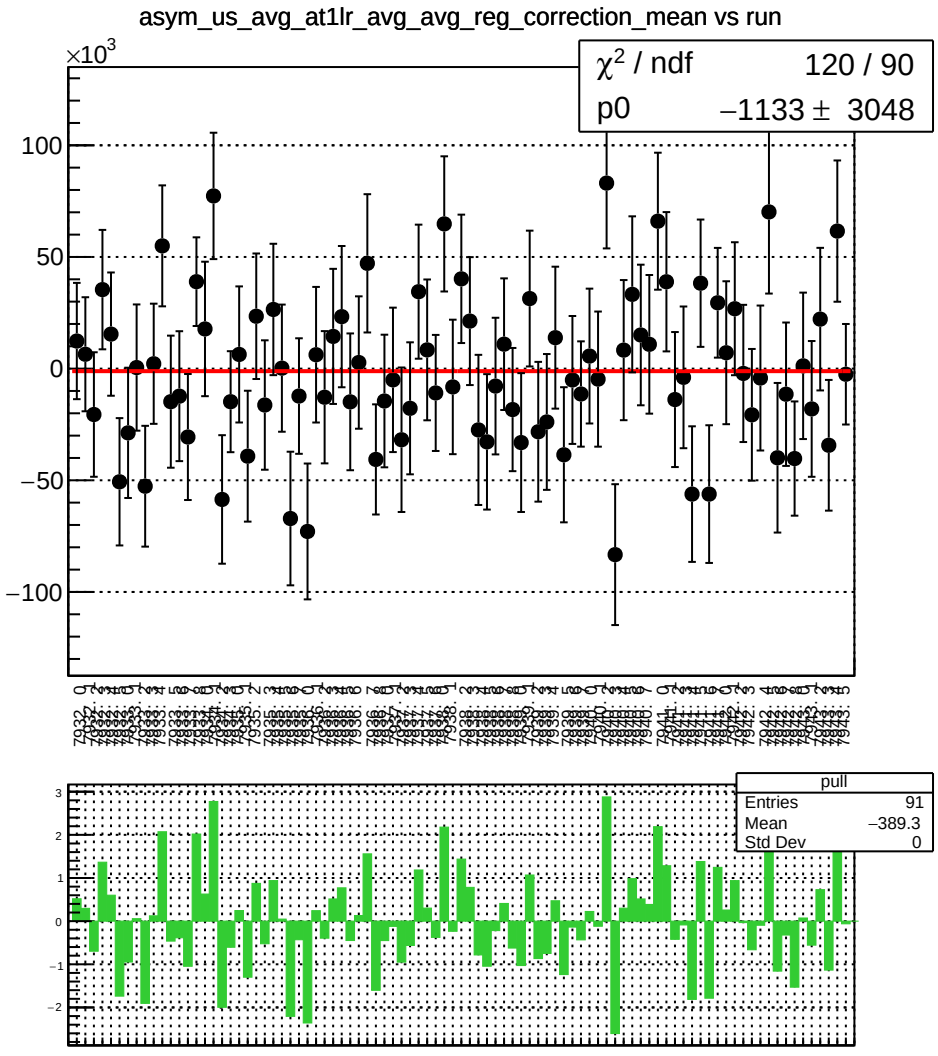

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.06 / 90
p0 1.615e−13 ± 4.275e−13
pull
Entries 91
Mean 189.7
Std Dev 0
pull1D
Entries 91
Mean 0.03134
Std Dev 1.016

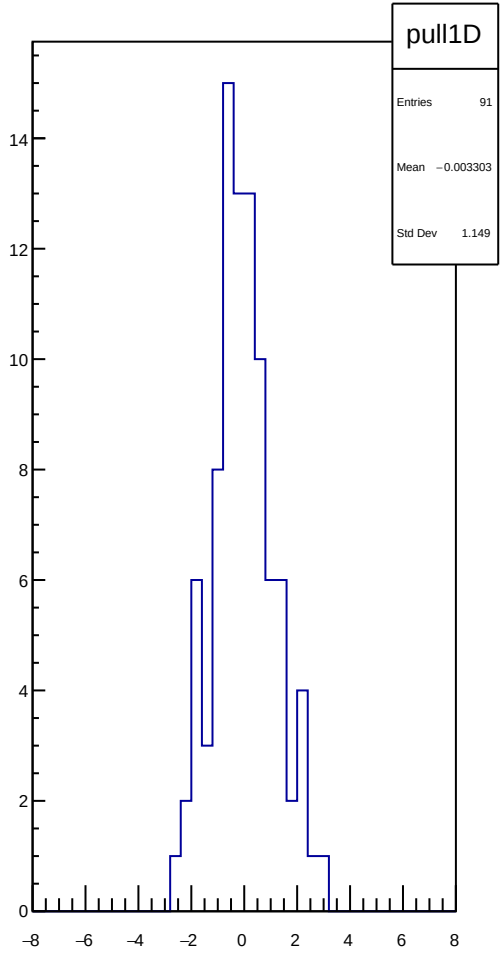

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.12e+06 / 90
p0 2.396e−10 ± 3.023e−13
3
2.5
2
1.5
1
0.5

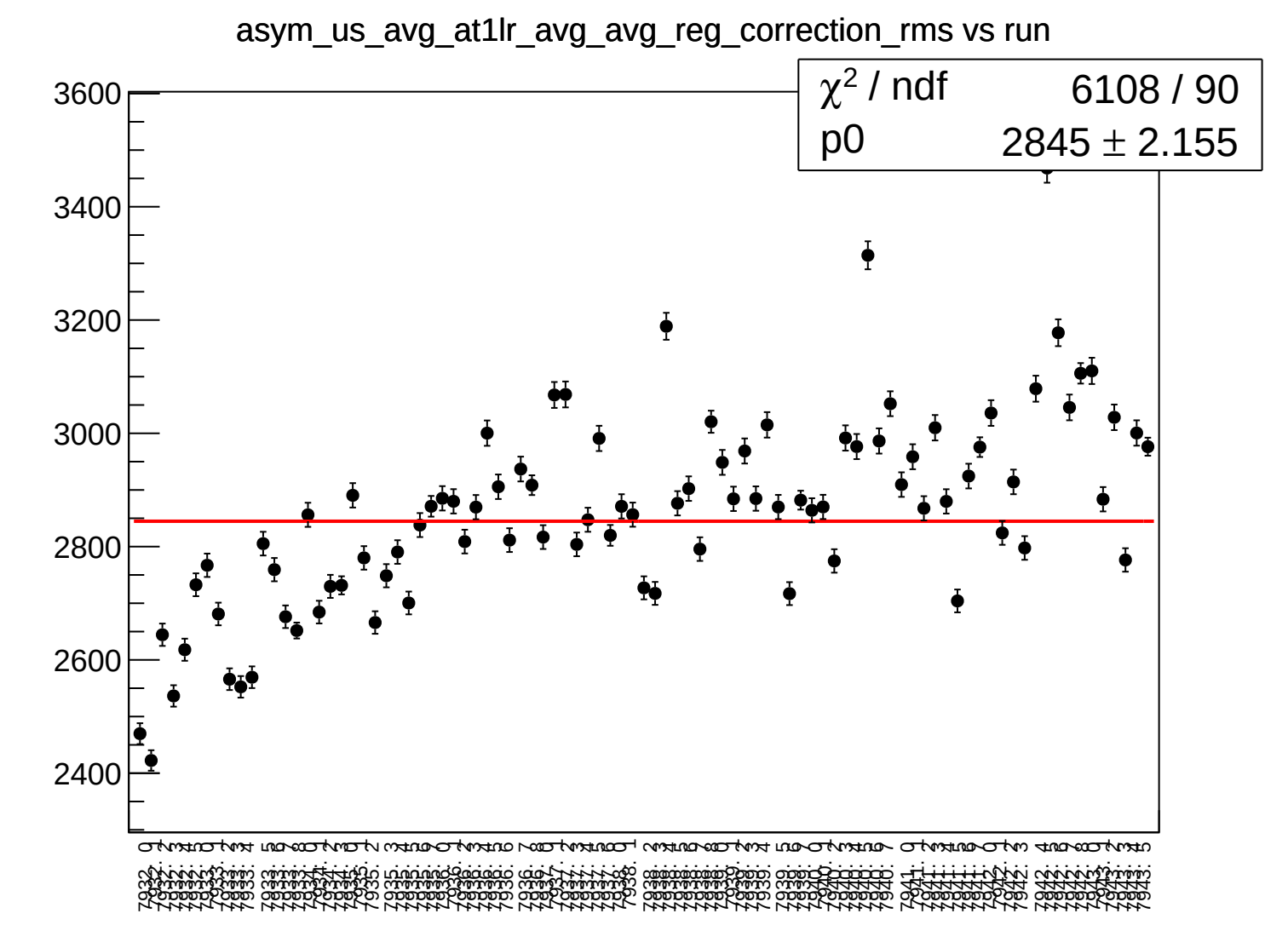

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.4 / 90
p0 −2182 ± 2351
pull
Entries 91
Mean −1078
Std Dev 0

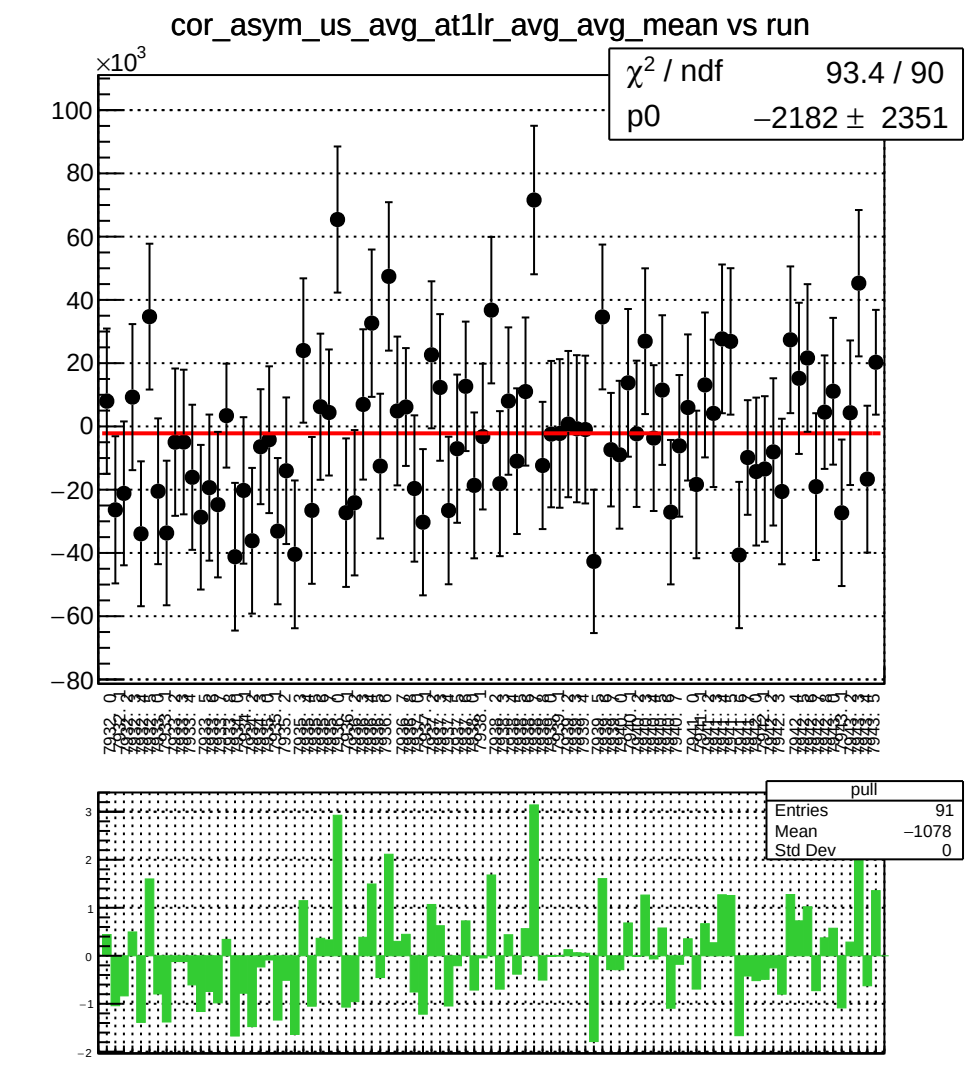

pull1D
Entries 91
Mean −0.005352
Std Dev 1.013

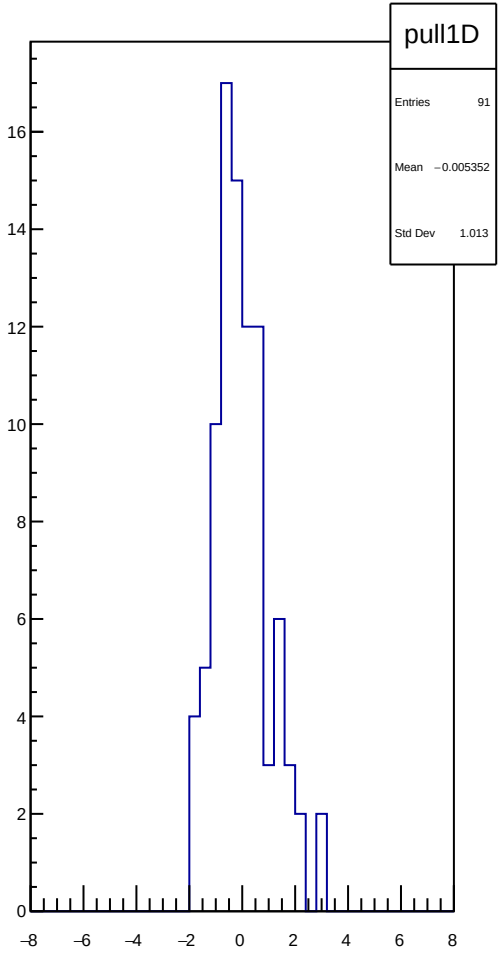

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 141.9 / 90
p0 2198 ± 1.662
2280
2260
2240
2220
2200
2180
2160
2140
2120

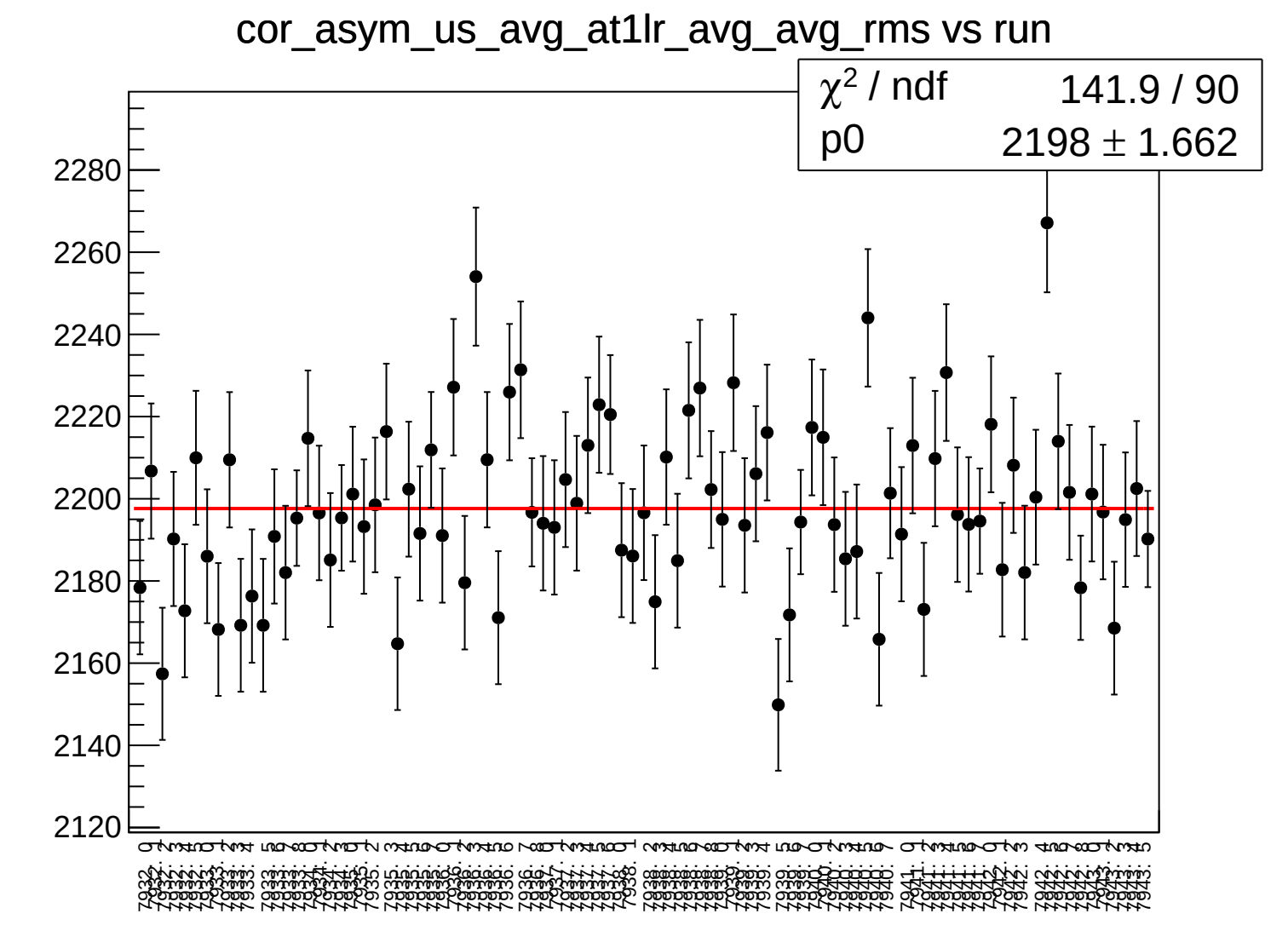

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 120 / 90
p0 −1133 ± 3048
100
50
0
−50
−100
pull
Entries 91
Mean −389.3
Std Dev 0
3
2
1
0
−1
−2

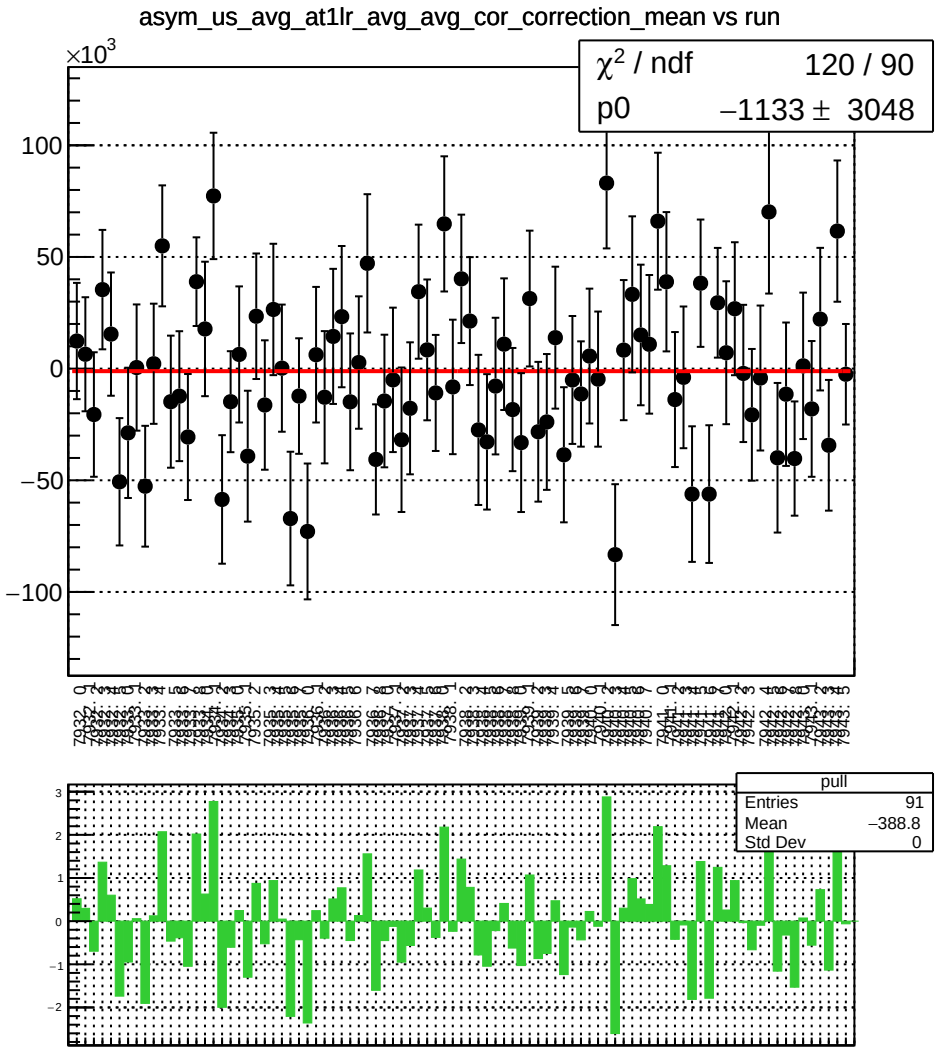

pull1D
Entries 91
Mean −0.003303
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

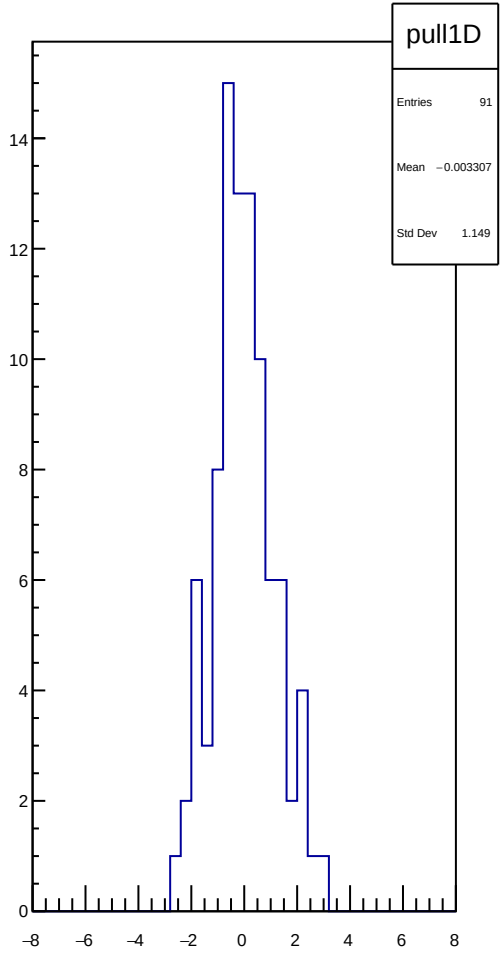

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6108 / 90
p0 2845 ± 2.155
3600
3400
3200
3000
2800
2600
2400

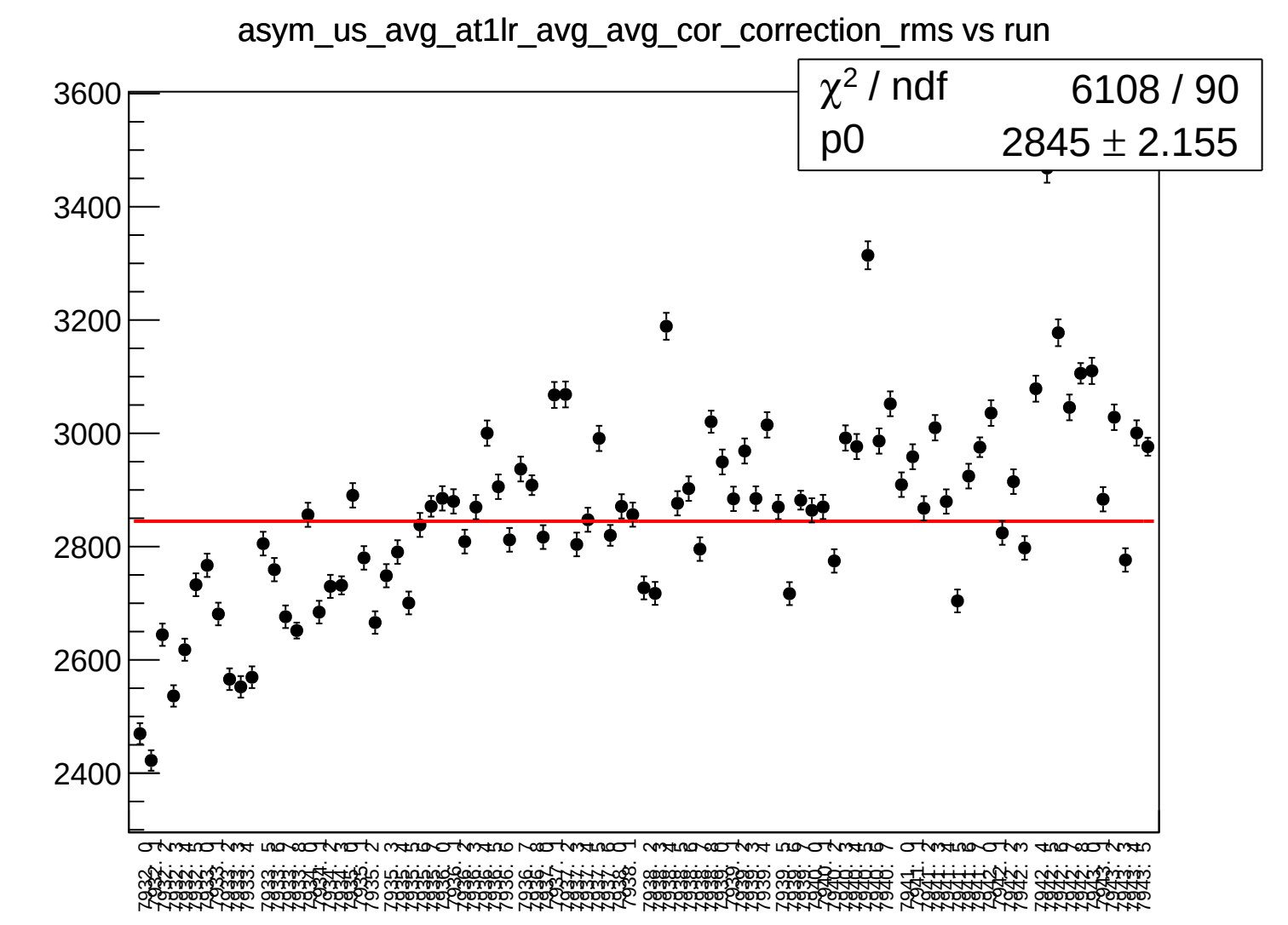

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.4 / 90
p0 −2182 ± 2351
pull
Entries 91
Mean −1078
Std Dev 0

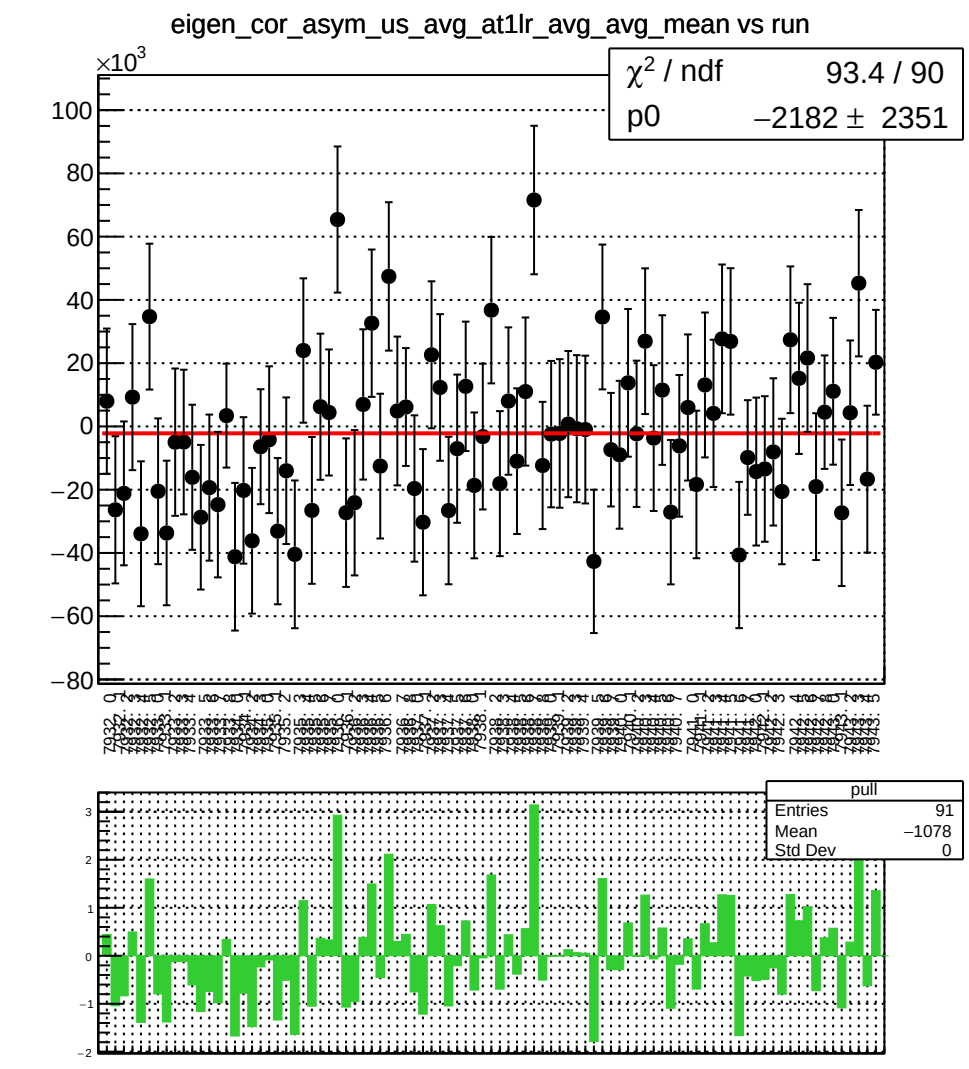

pull1D
Entries 91
Mean −0.005352
Std Dev 1.013

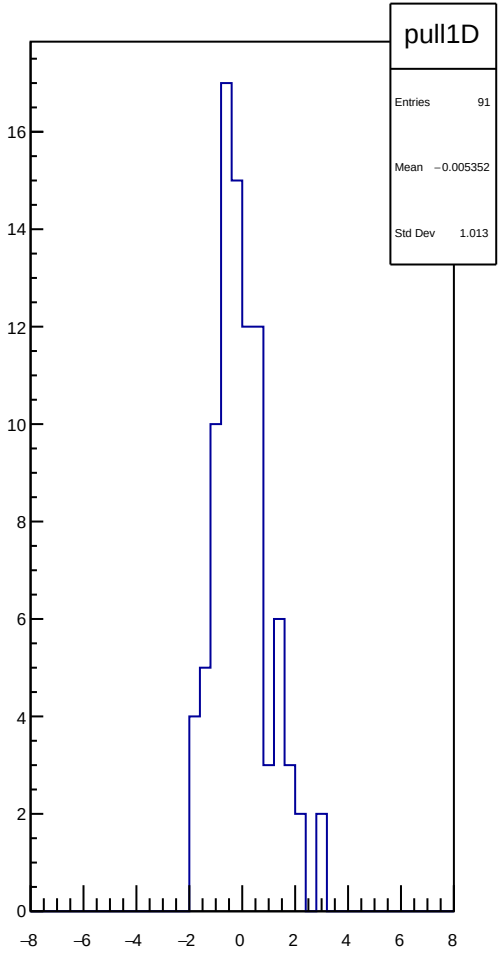

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 141.9 / 90
p0 2198 ± 1.662
2280
2260
2240
2220
2200
2180
2160
2140
2120

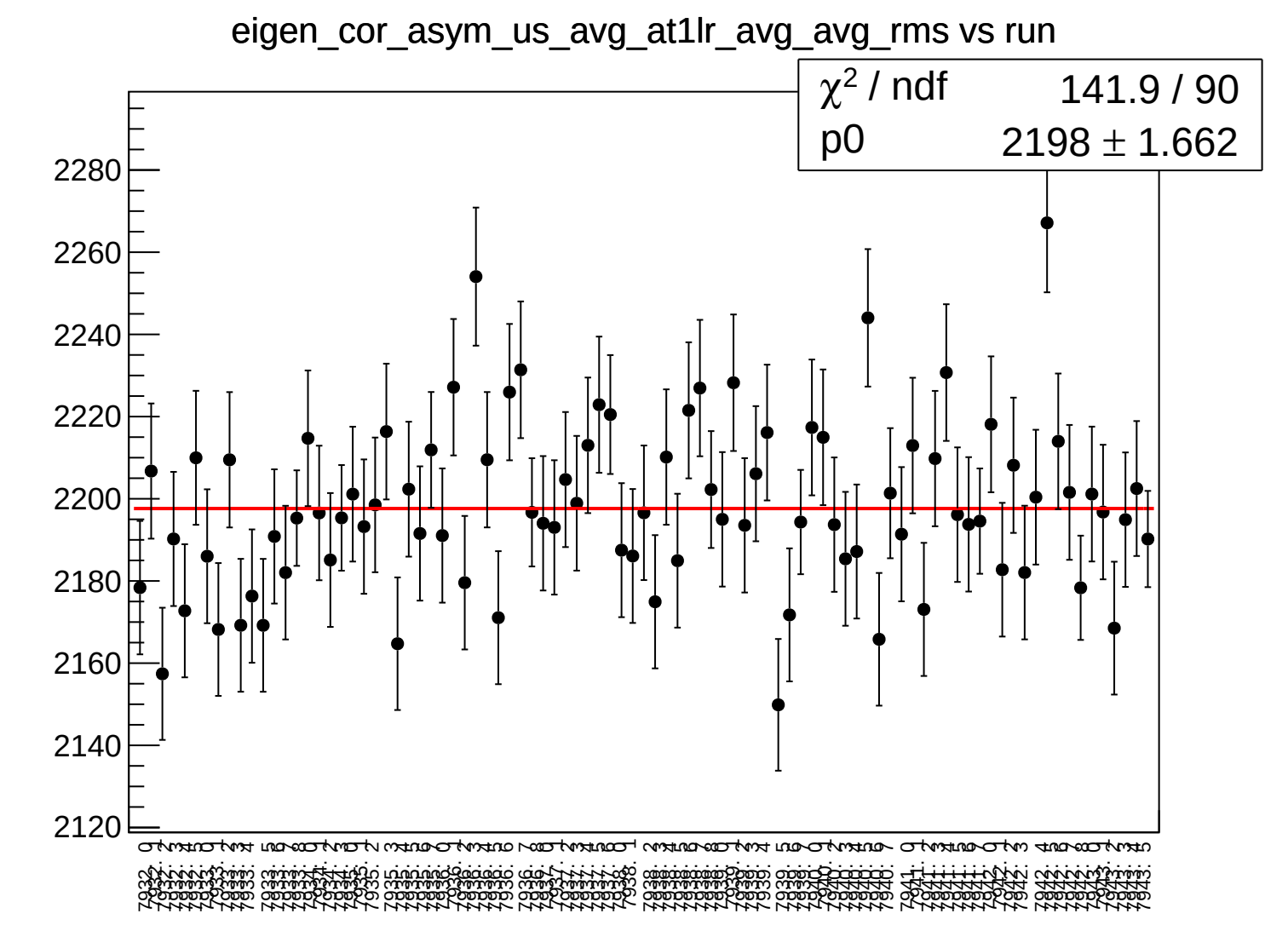

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 120 / 90
p0 −1133 ± 3048
100
50
0
−50
−100
pull
Entries 91
Mean −388.8
Std Dev 0
3
2
1
0
−1
−2

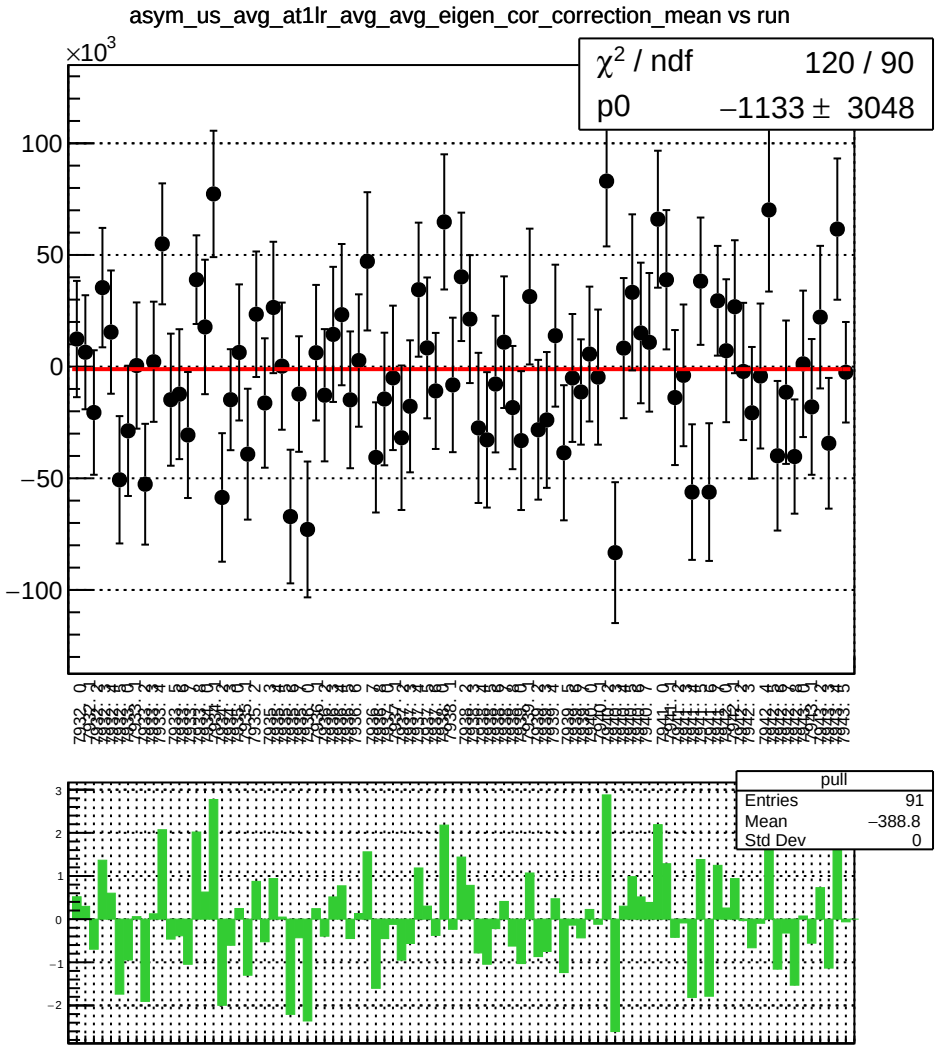

pull1D
Entries 91
Mean −0.003307
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

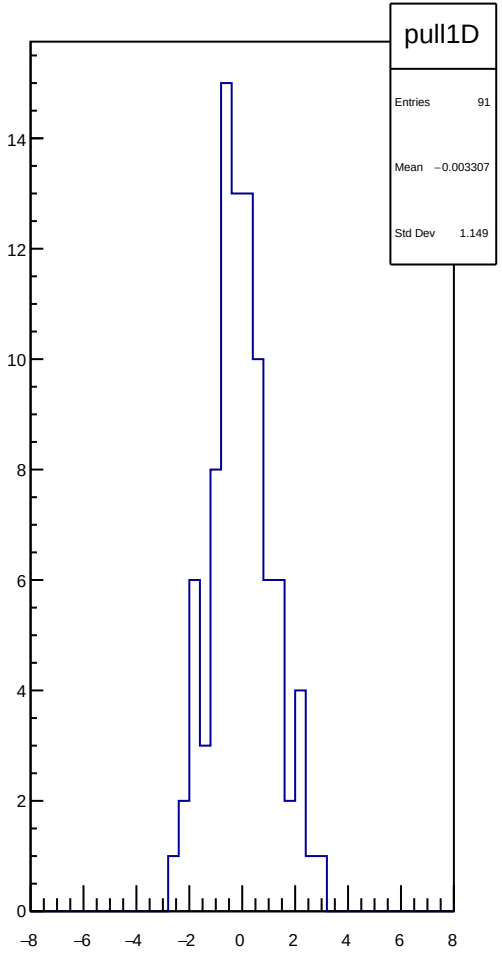

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6108 / 90
p0 2845 ± 2.155
3600
3400
3200
3000
2800
2600
2400

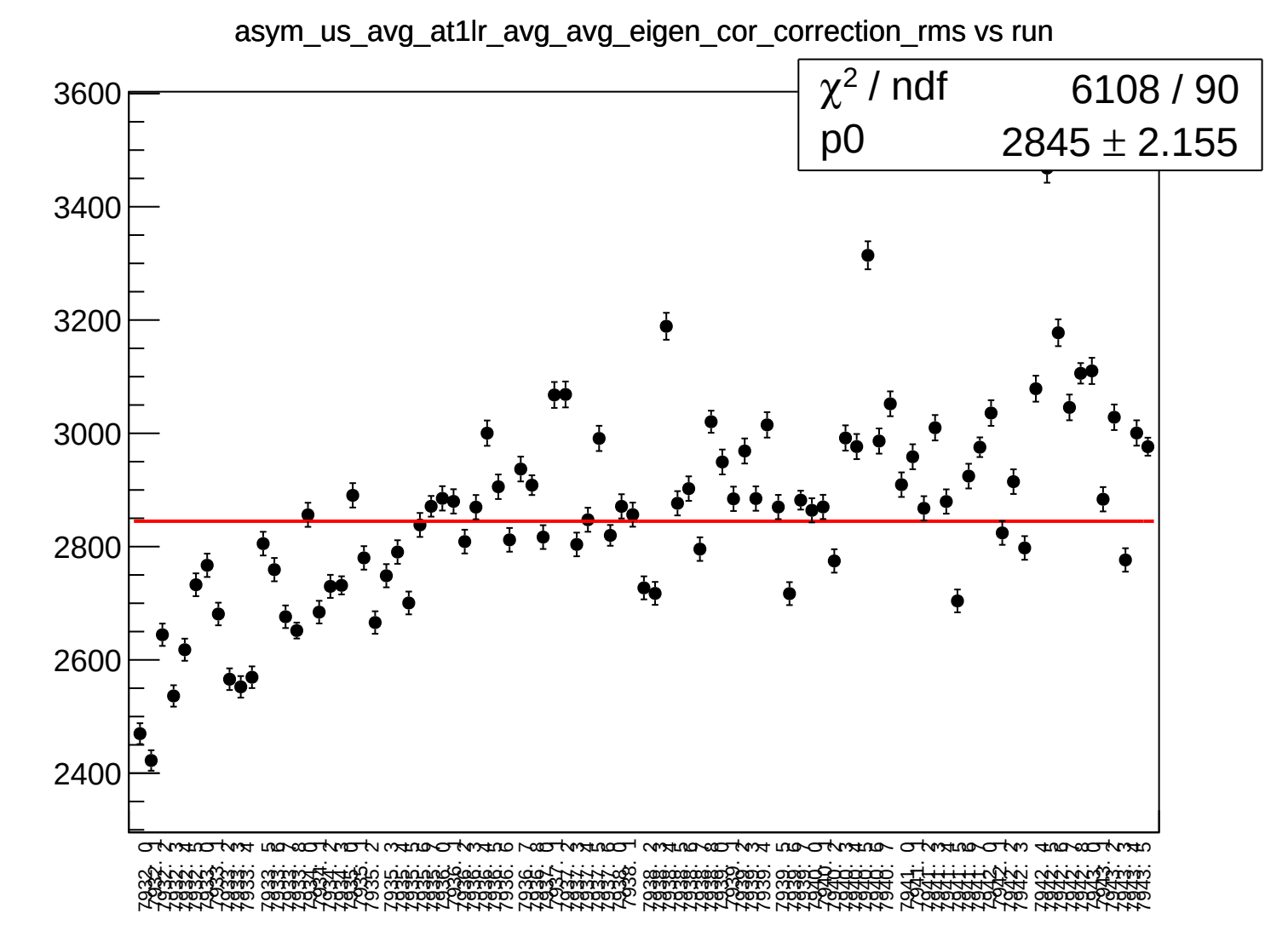

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.4 / 90
p0 −2182 ± 2351
pull
Entries 91
Mean −1078
Std Dev 0

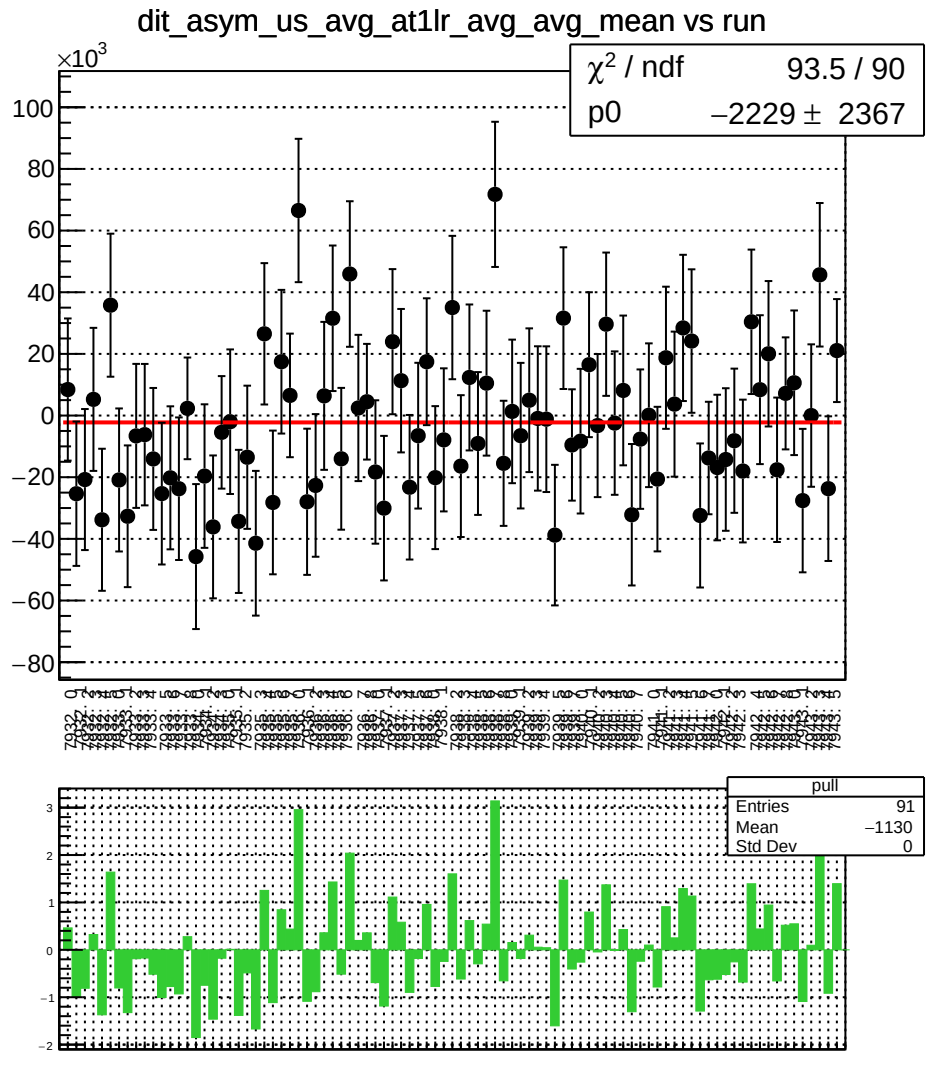

pull1D
Entries 91
Mean −0.005352
Std Dev 1.013

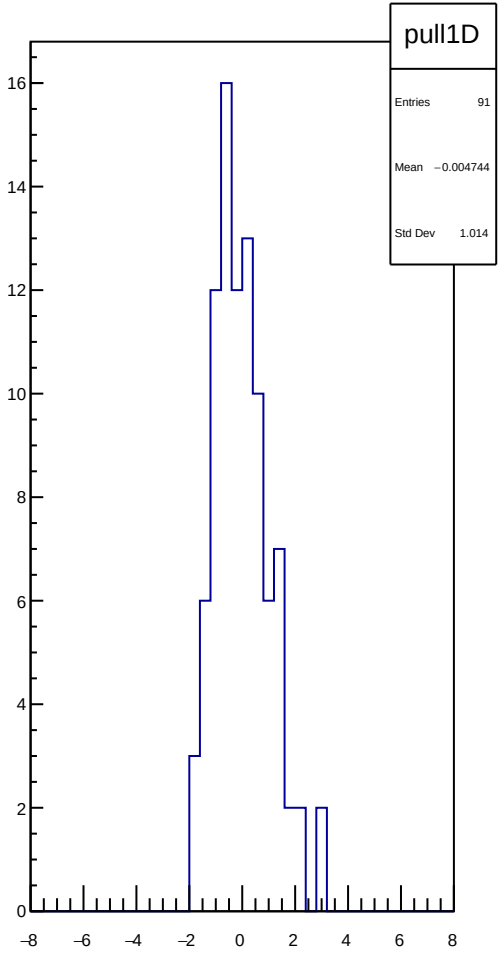

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 141.9 / 90
p0 2198 ± 1.662
2280
2260
2240
2220
2200
2180
2160
2140
2120

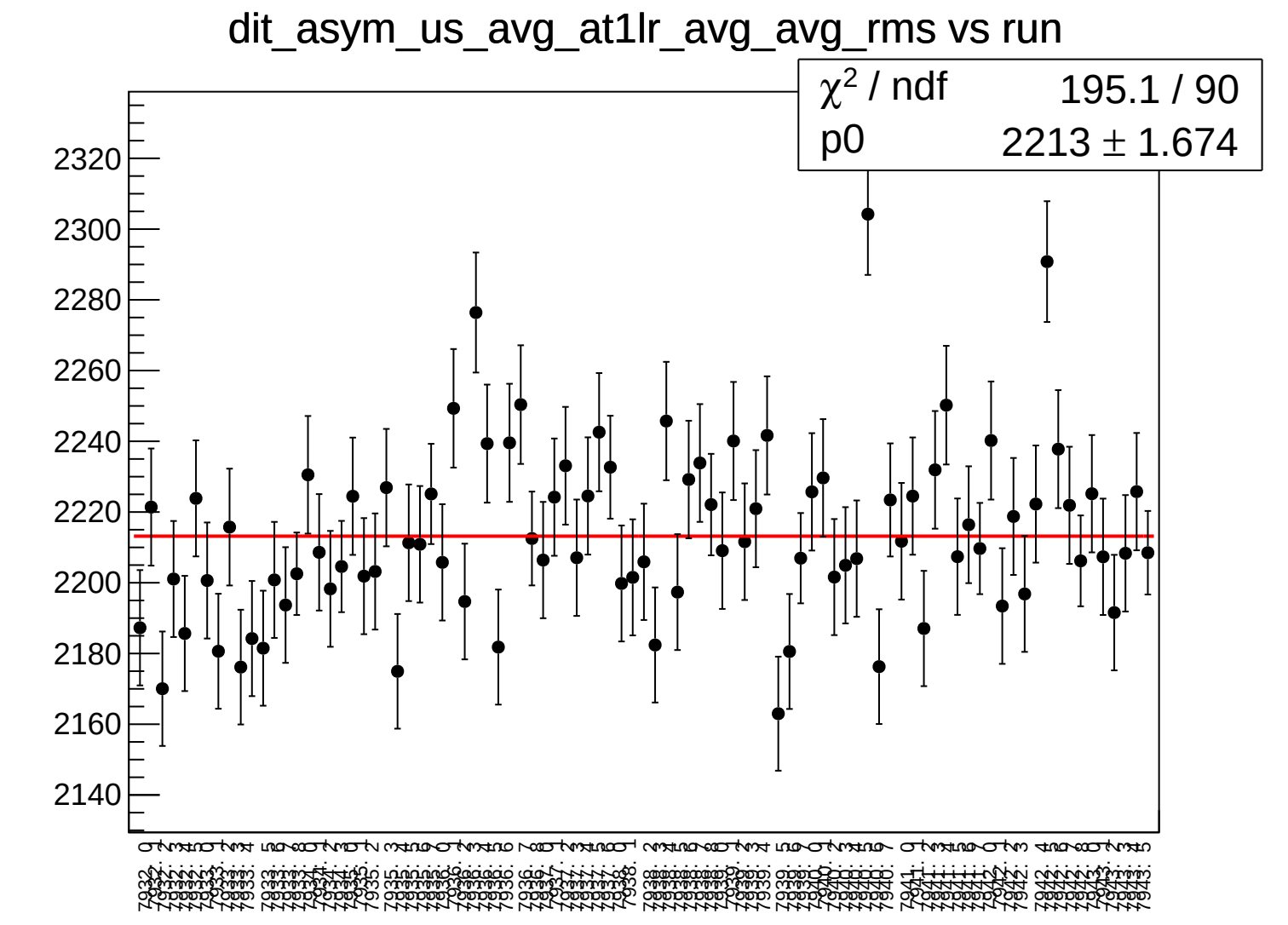

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 120 / 90
p0 −1133 ± 3048
100
50
0
−50
−100
pull
Entries 91
Mean −388.8
Std Dev 0
3
2
1
0
−1
−2

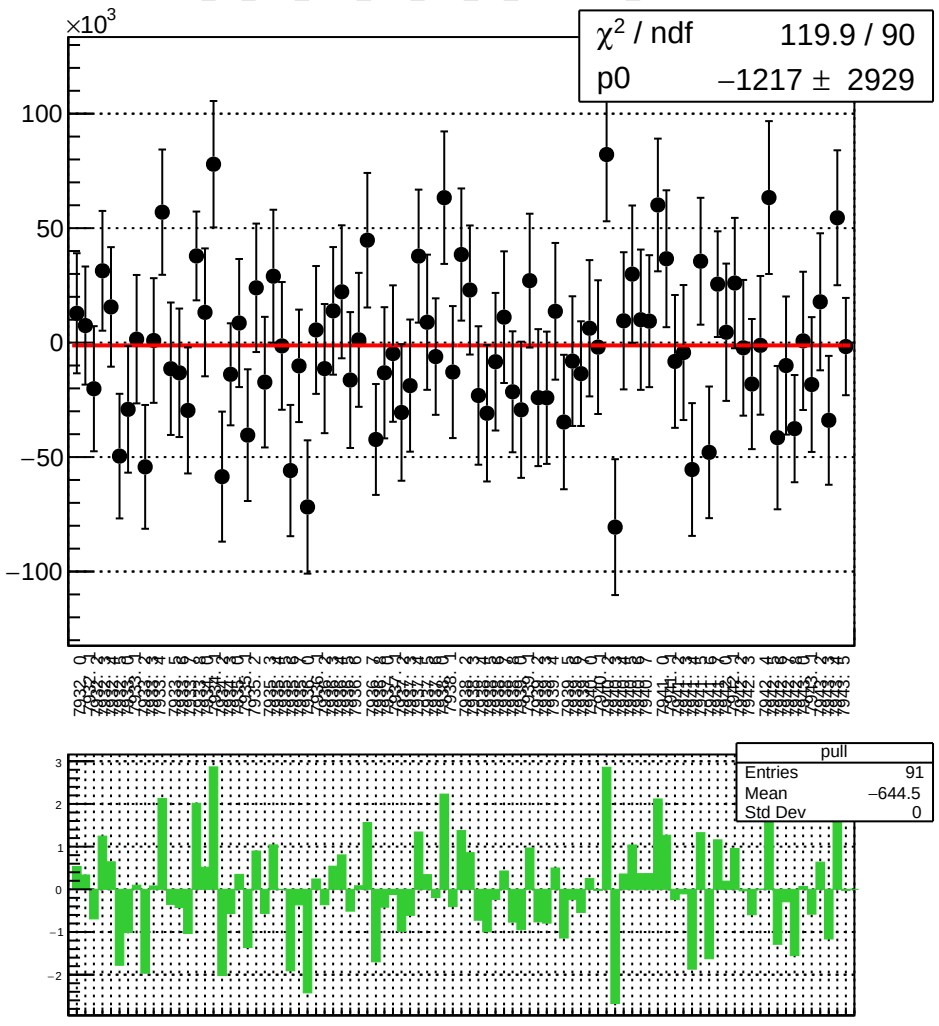

pull1D
Entries 91
Mean −0.003307
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

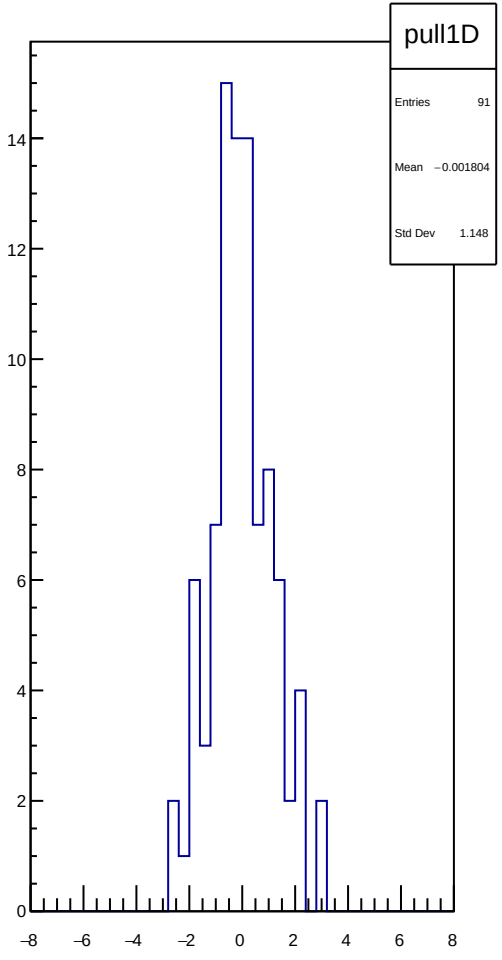

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6108 / 90
p0 2845 ± 2.155
3600
3400
3200
3000
2800
2600
2400

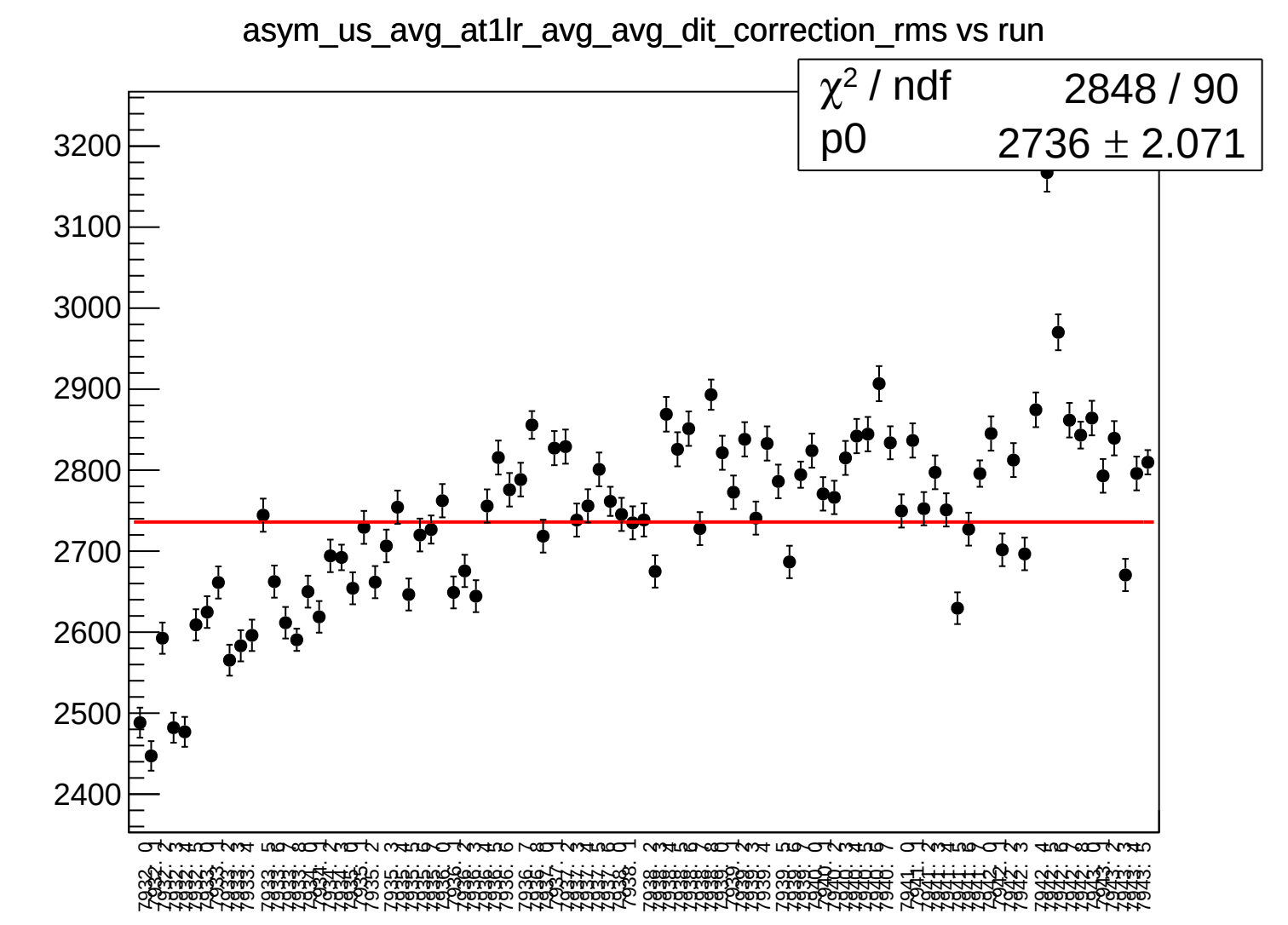

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.5 / 90
p0 −2229 ± 2367
pull
Entries 91
Mean −1130
Std Dev 0

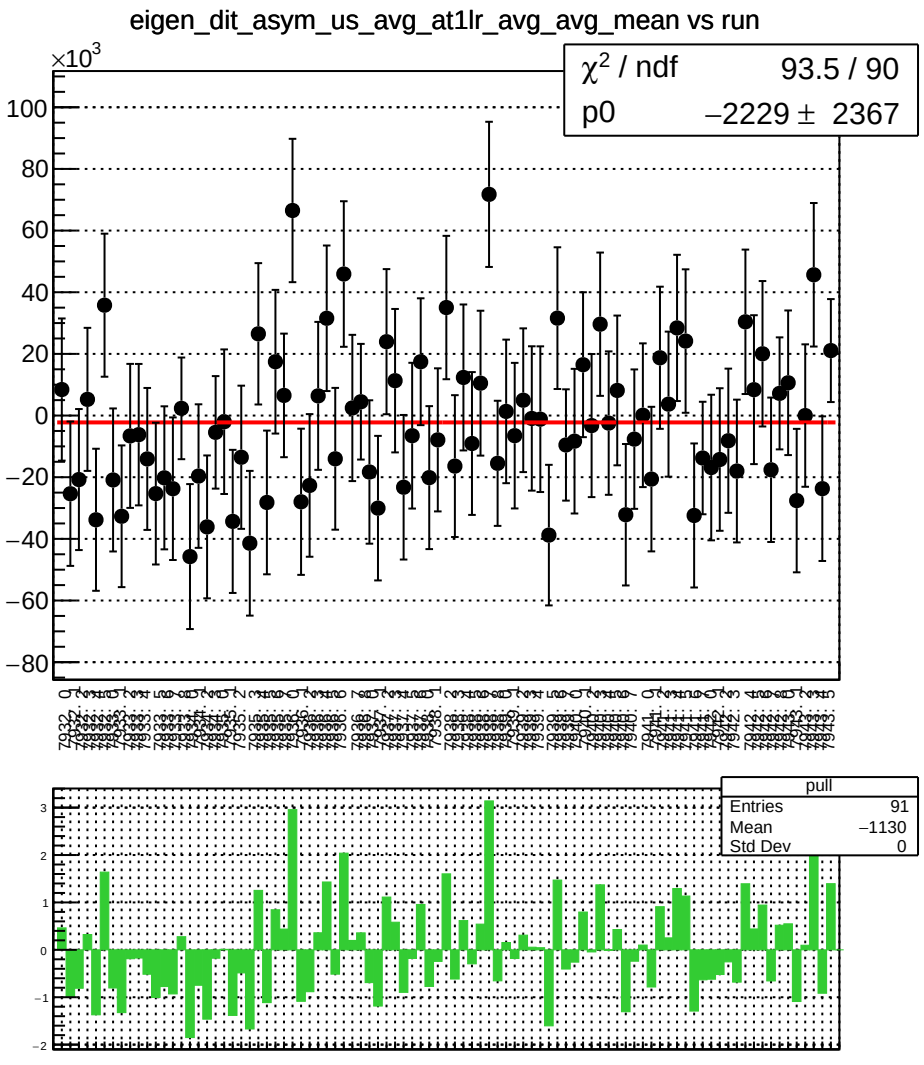

pull1D
Entries 91
Mean −0.004744
Std Dev 1.014

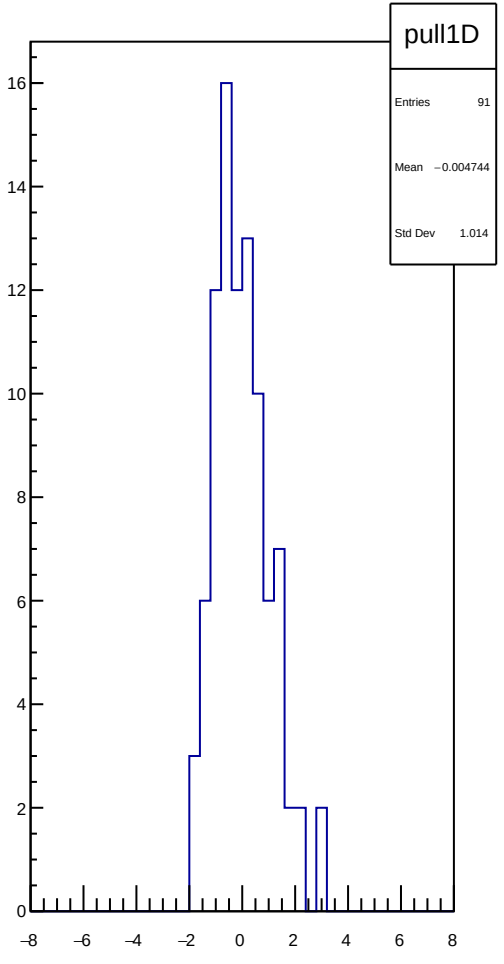

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 195.1 / 90
p0 2213 ± 1.674
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

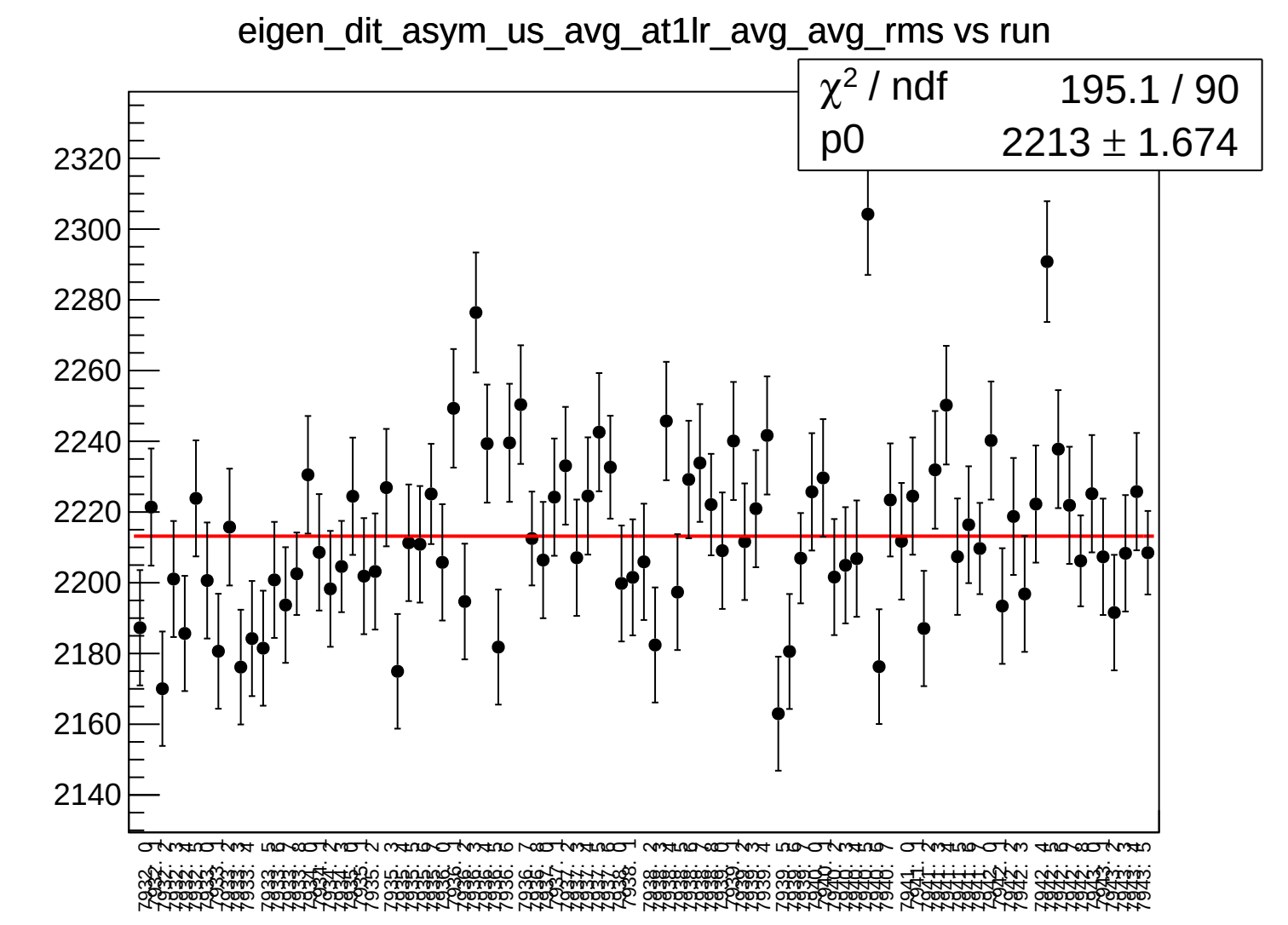

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −1217 ± 2929
100
50
0
−50
−100
pull
Entries 91
Mean −644.5
Std Dev 0
3
2
1
0
−1
−2

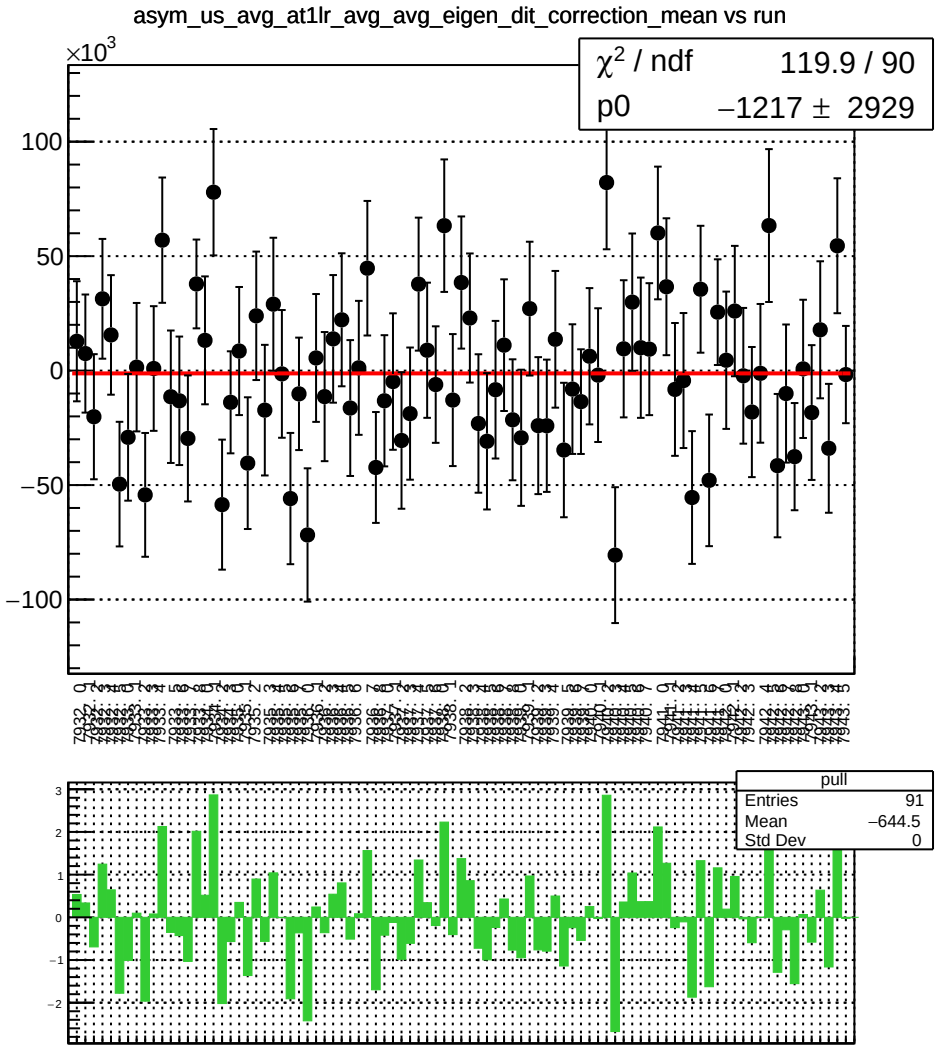

pull1D
Entries 91
Mean −0.001804
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

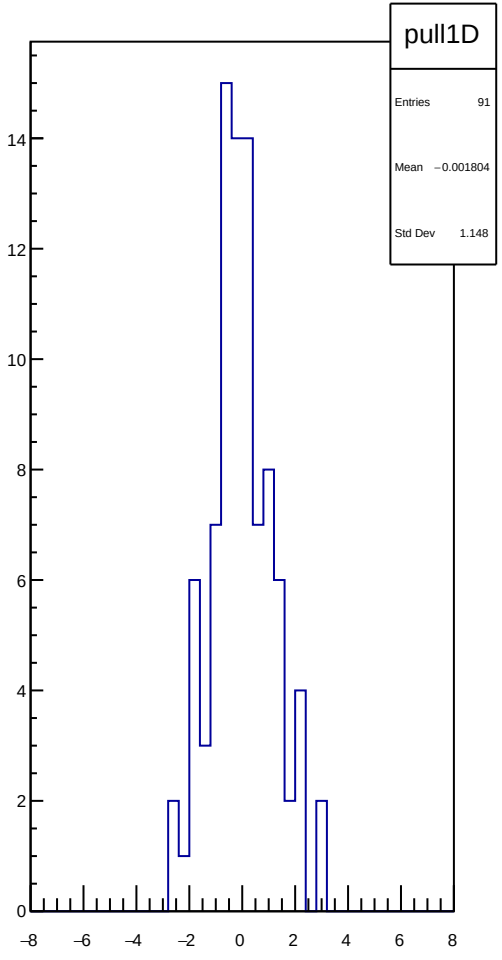

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2848 / 90
p0 2736 ± 2.071
3200
3100
3000
2900
2800
2700
2600
2500
2400

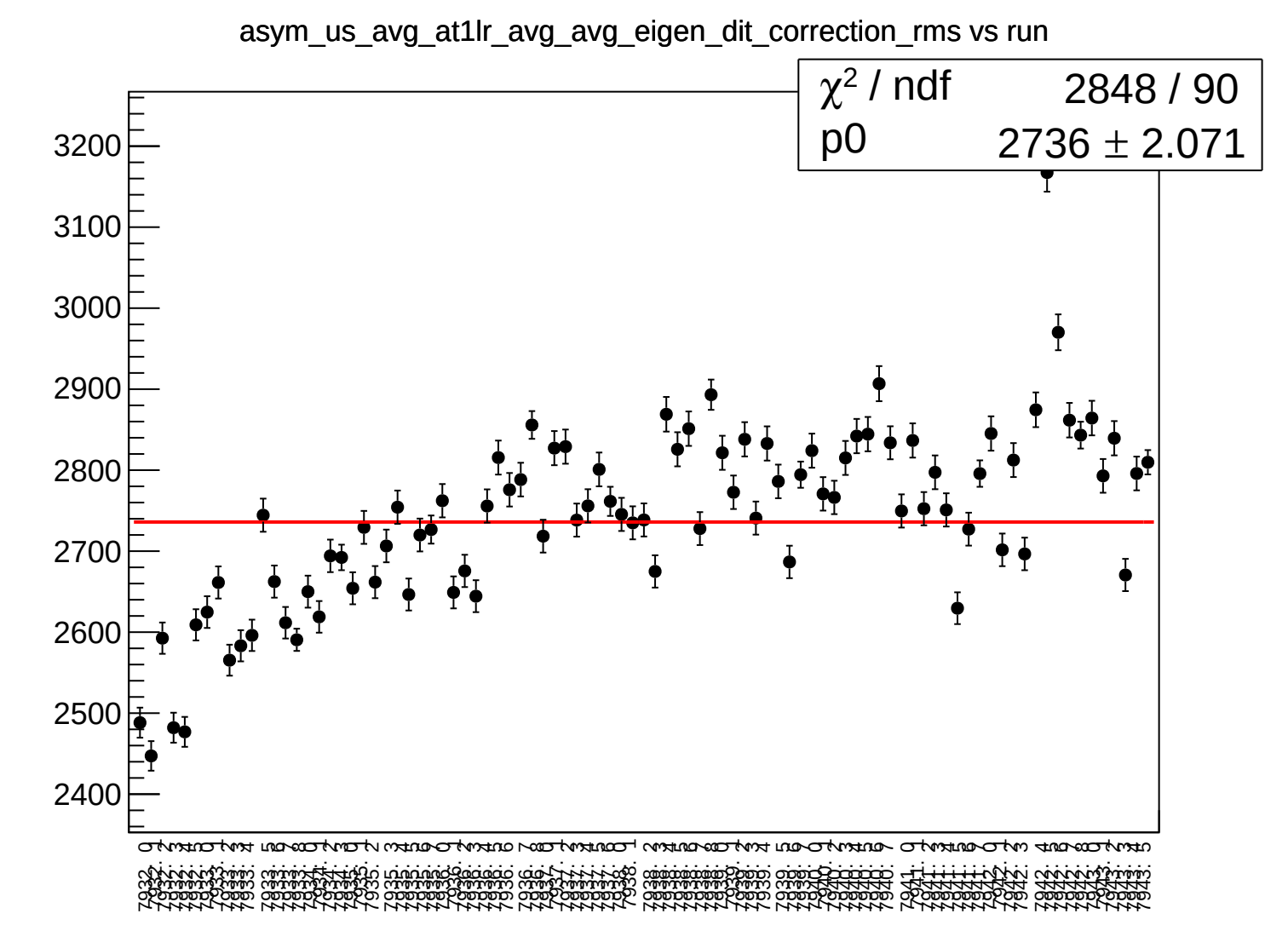

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.5 / 90
p0 −2229 ± 2367
pull
Entries 91
Mean −1130
Std Dev 0

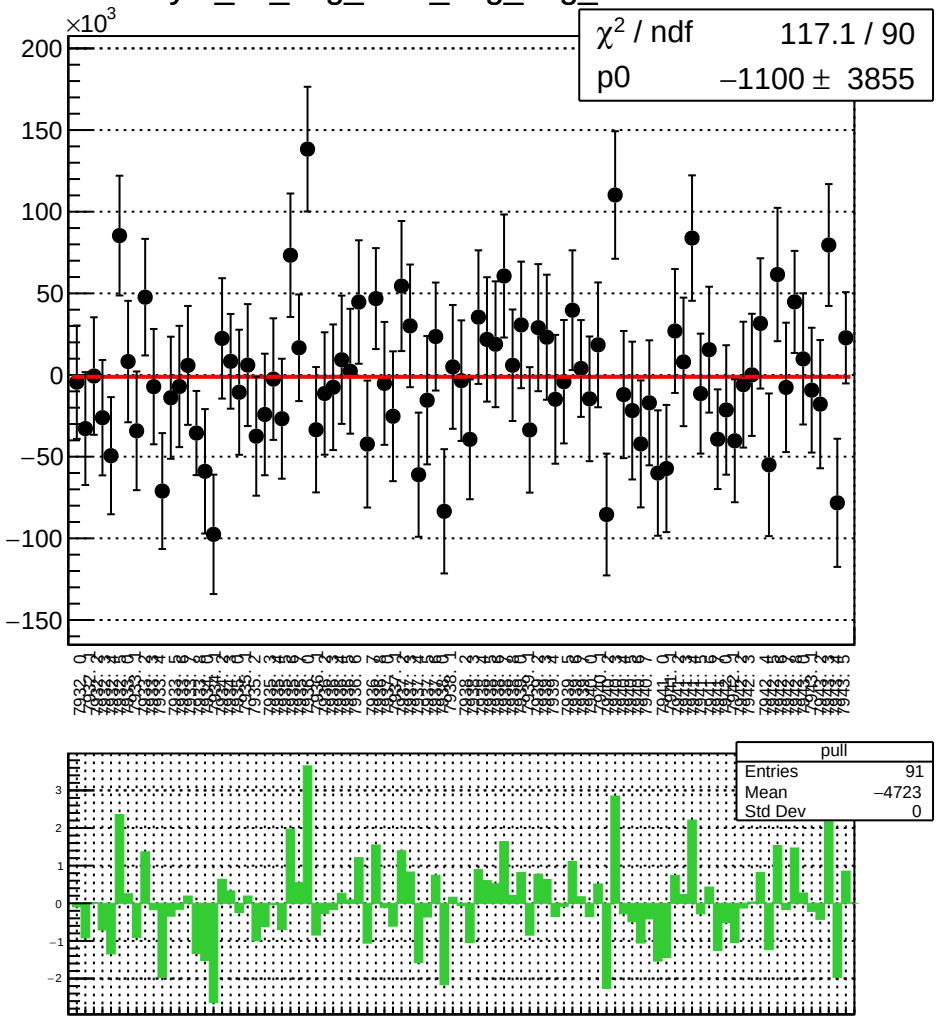

pull1D
Entries 91
Mean −0.004744
Std Dev 1.014

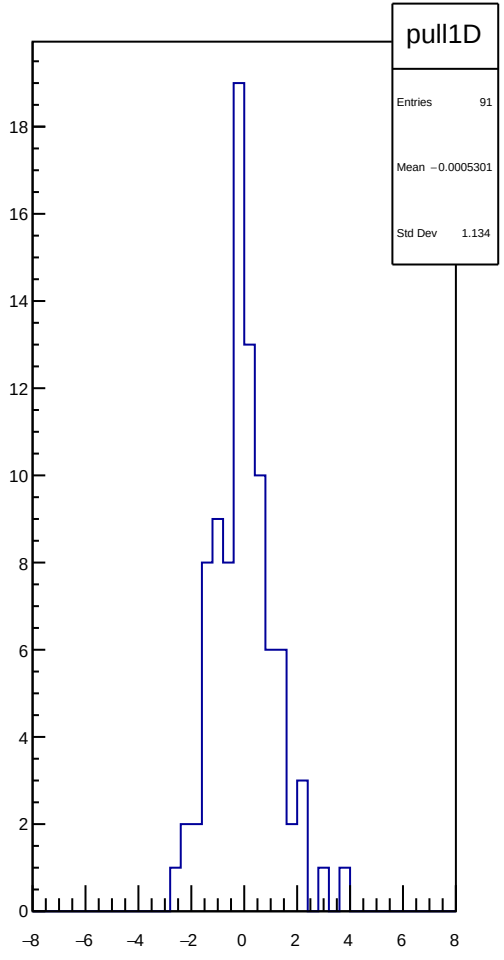

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 195.1 / 90
p0 2213 ± 1.674
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

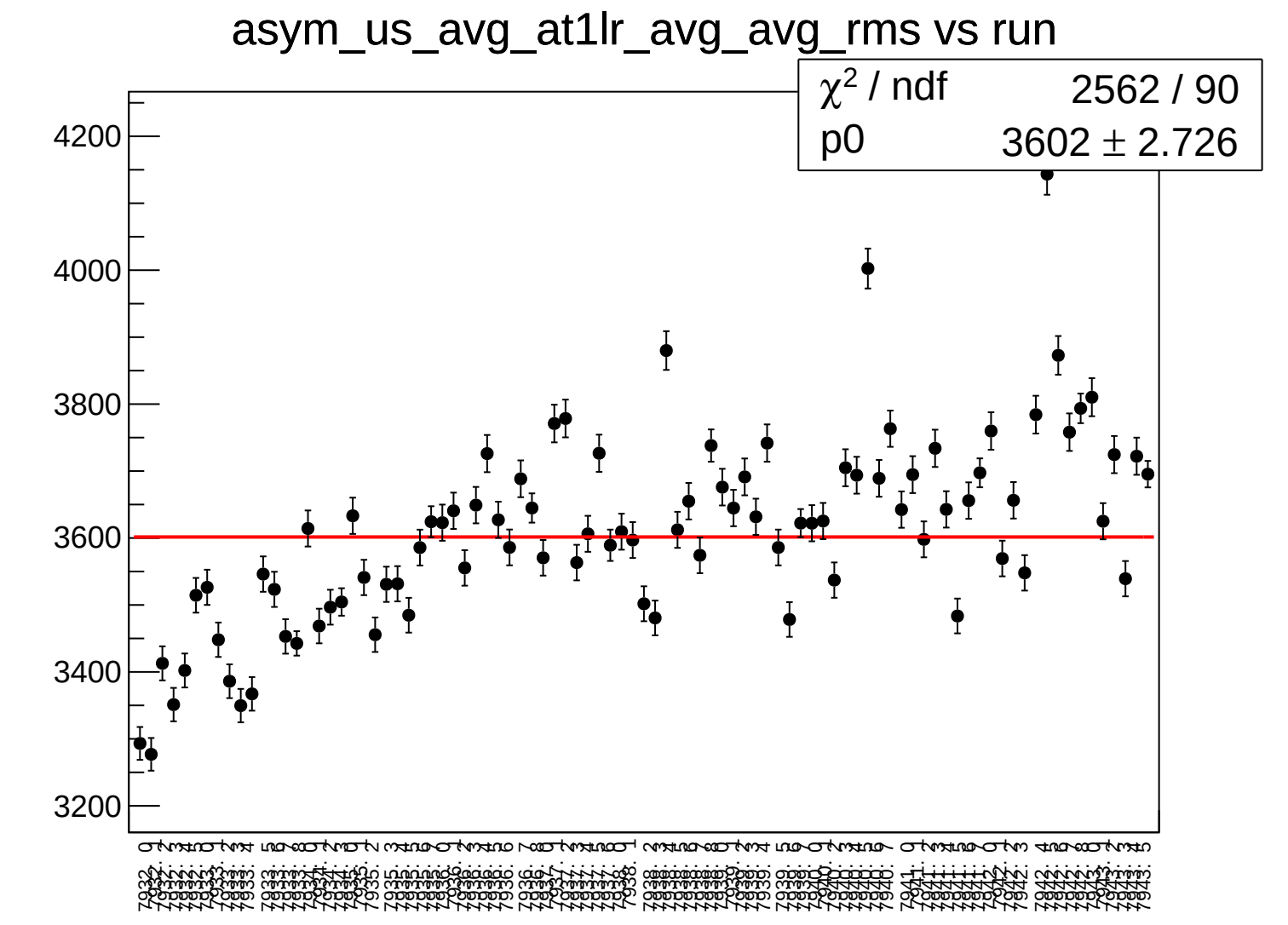

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −1217 ± 2929
100
50
0
−50
−100
pull
Entries 91
Mean −644.5
Std Dev 0
3
2
1
0
−1
−2

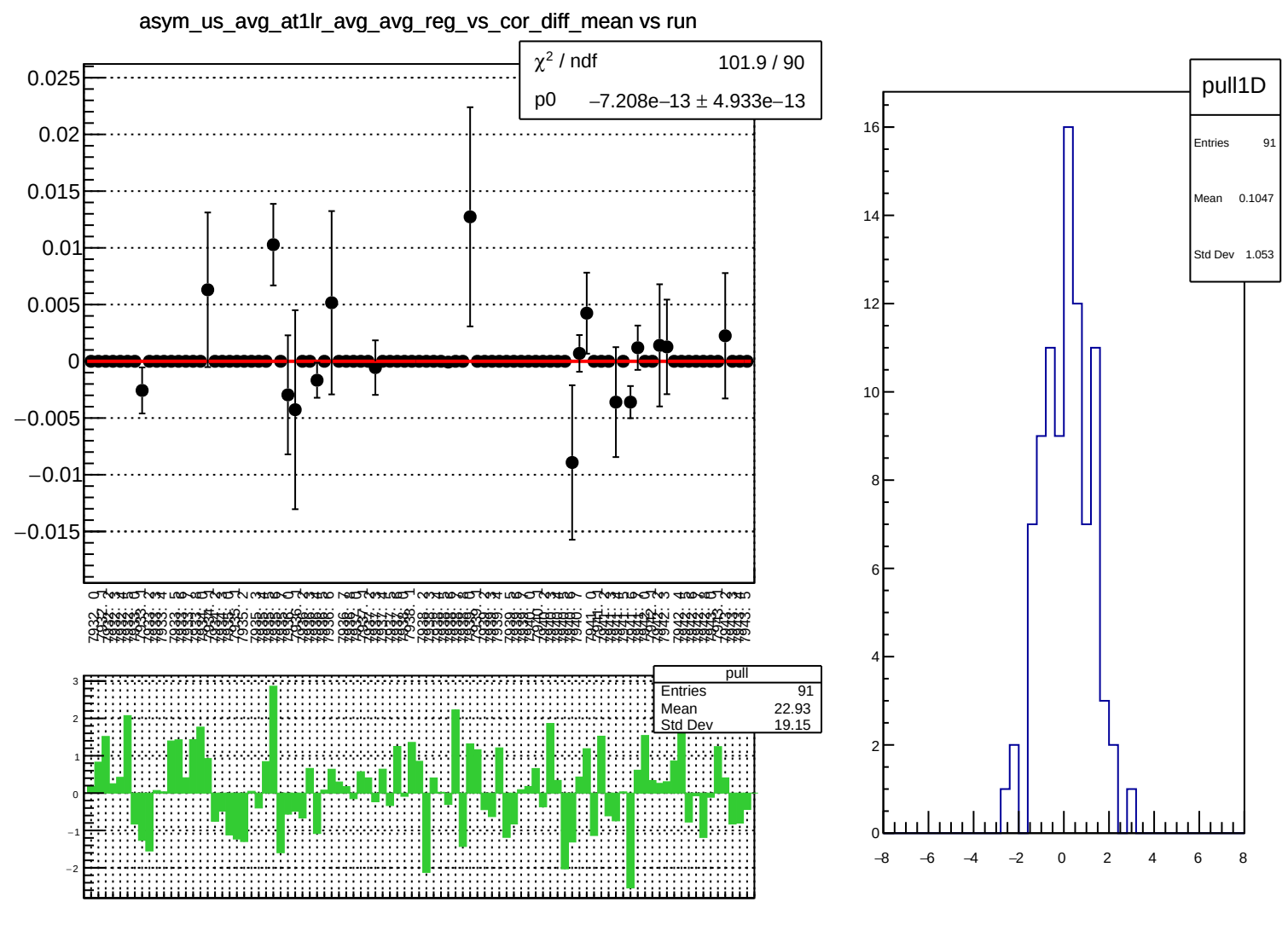

pull1D
Entries 91
Mean −0.001804
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

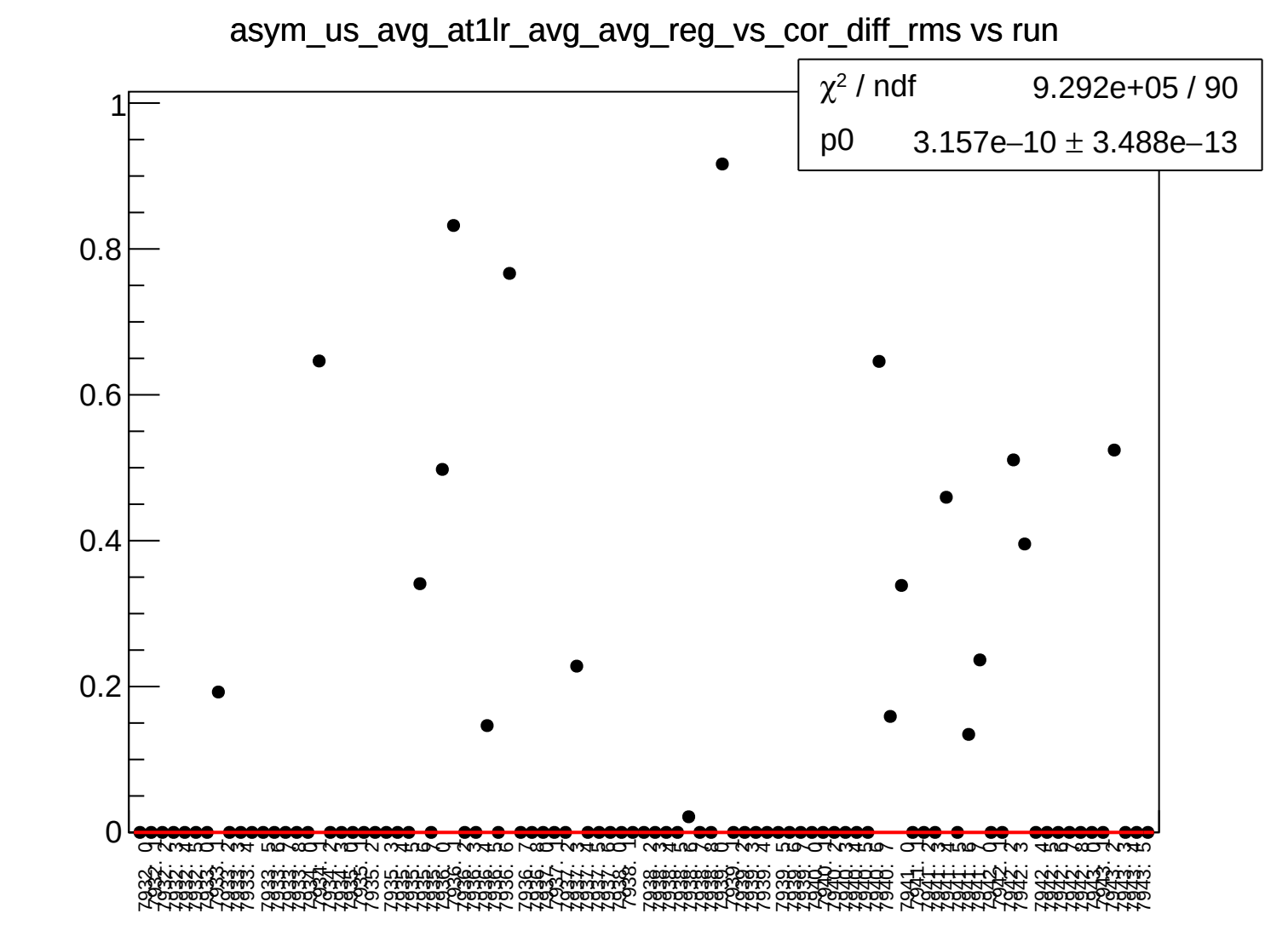

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2848 / 90
p0 2736 ± 2.071
3200
3100
3000
2900
2800
2700
2600
2500
2400

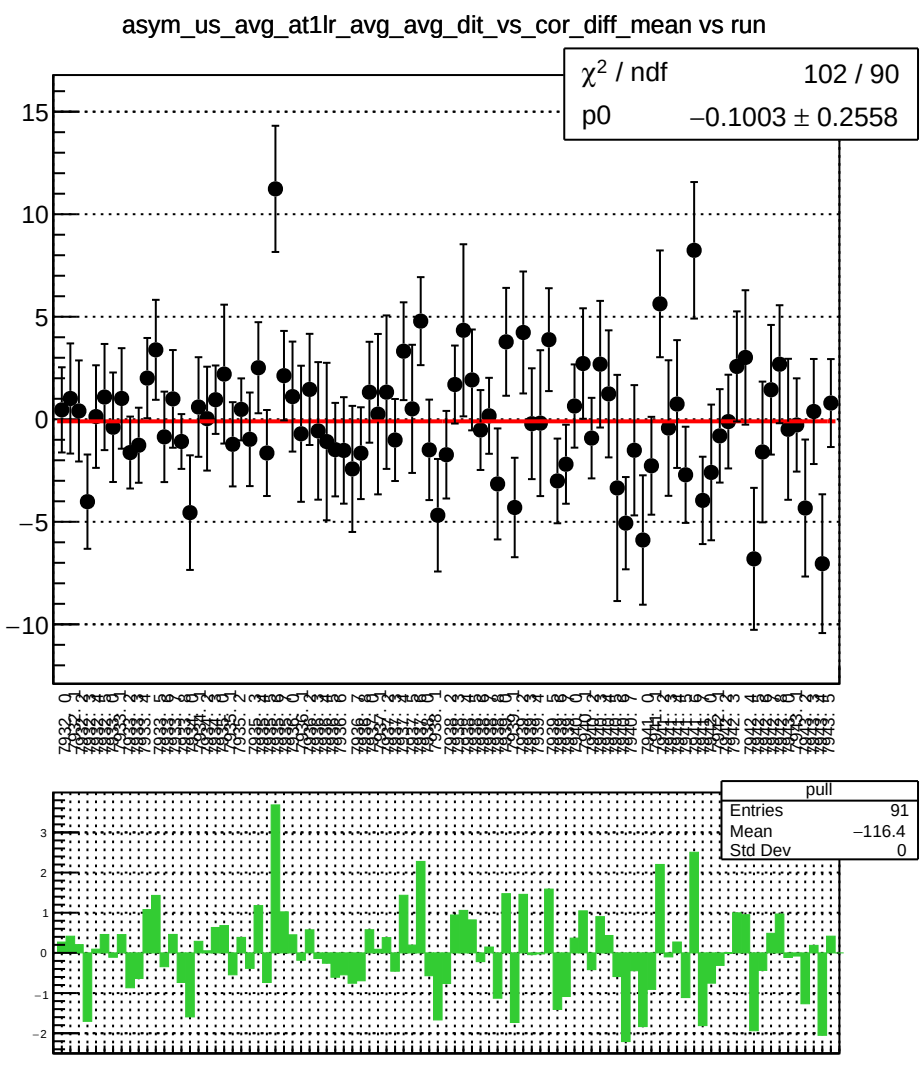

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 117.1 / 90
p0 −1100 ± 3855
pull
Entries 91
Mean −4723
Std Dev 0

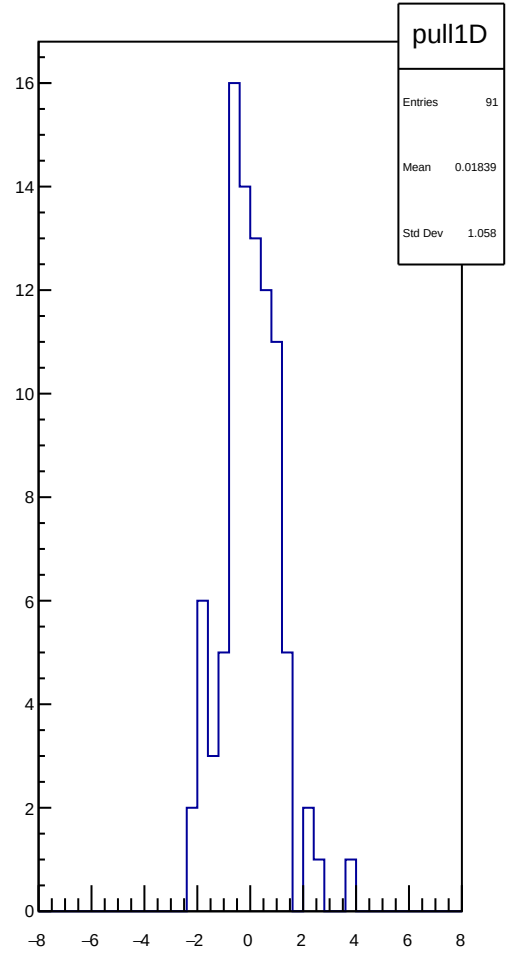

pull1D
Entries 91
Mean −0.0005301
Std Dev 1.134

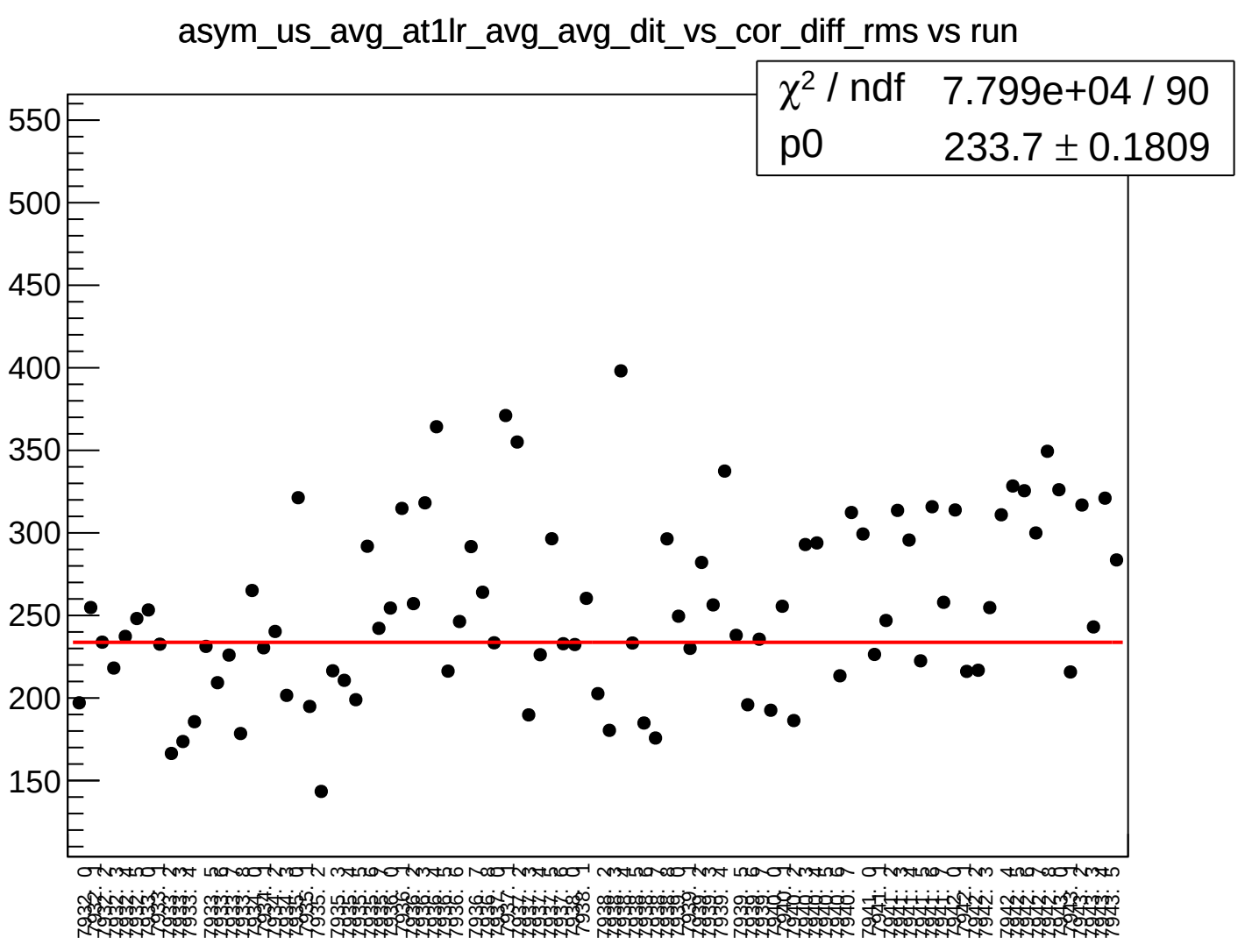

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2562 / 90
p0 3602 ± 2.726
4200
4000
3800
3600
3400
3200

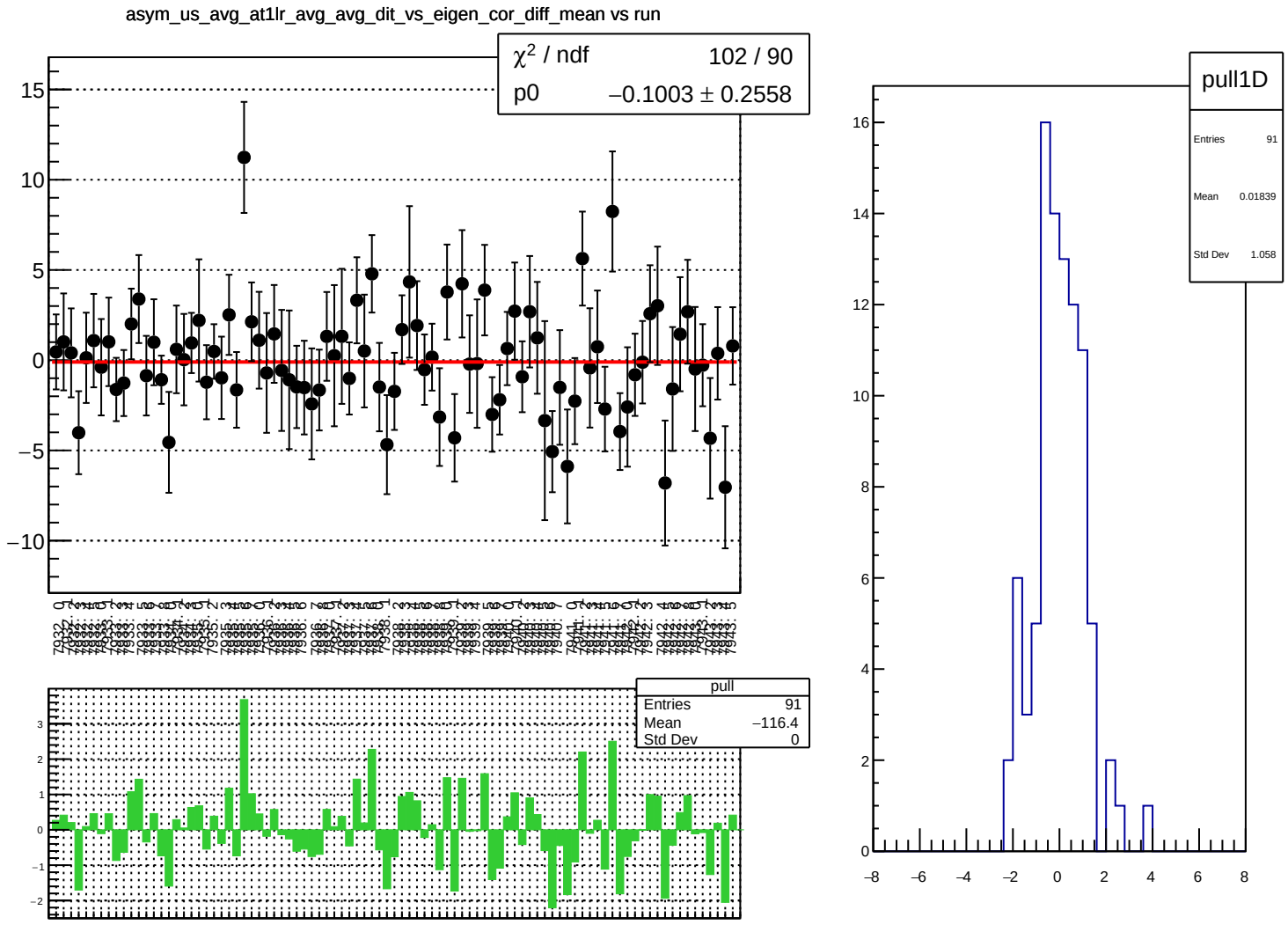

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 90
p0 −7.208e−13 ± 4.933e−13
pull
Entries 91
Mean 22.93
Std Dev 19.15
pull1D
Entries 91
Mean 0.1047
Std Dev 1.053

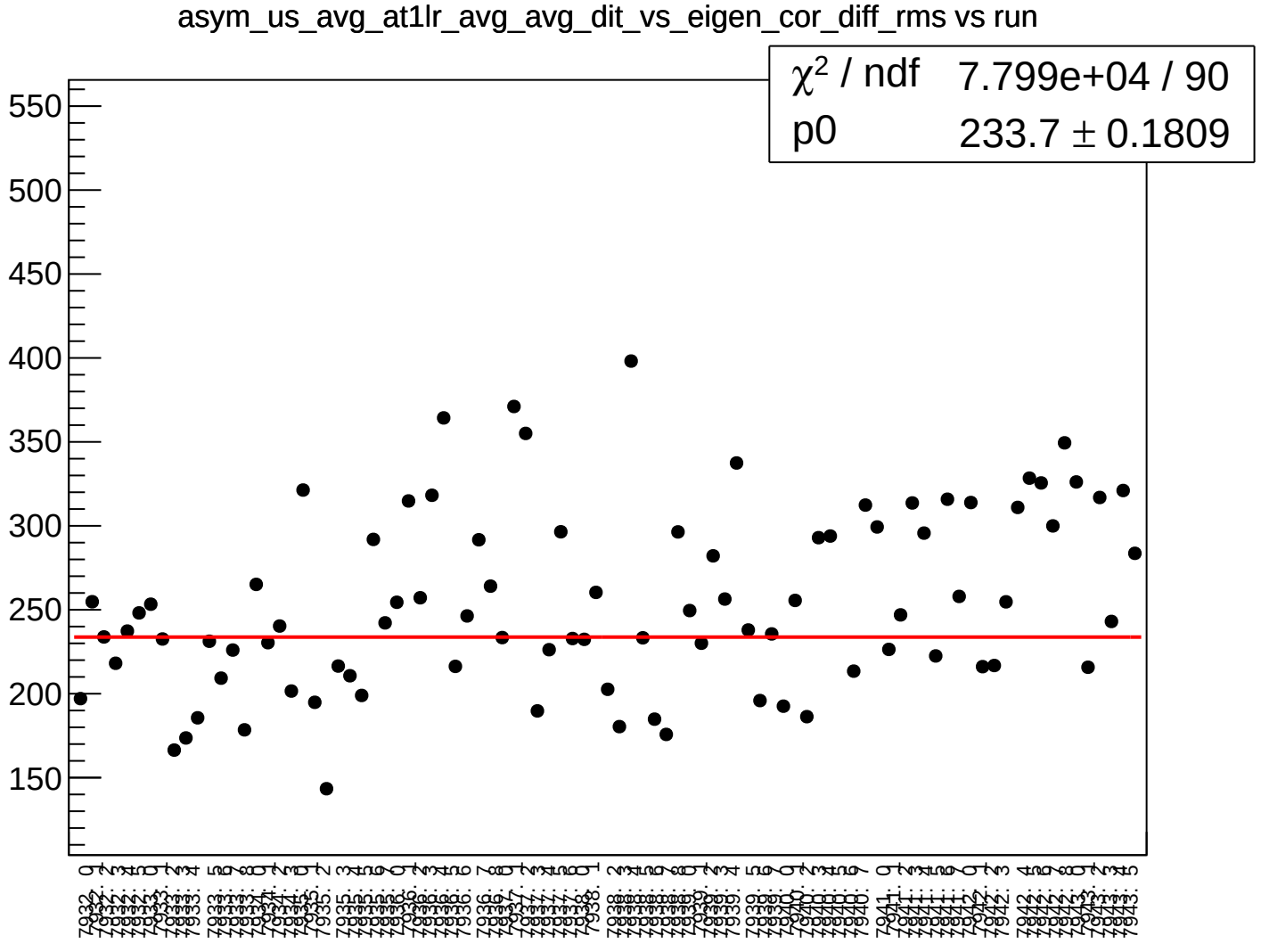

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.292e+05 / 90
p0 3.157e−10 ± 3.488e−13
1
0.8
0.6
0.4
0.2
0

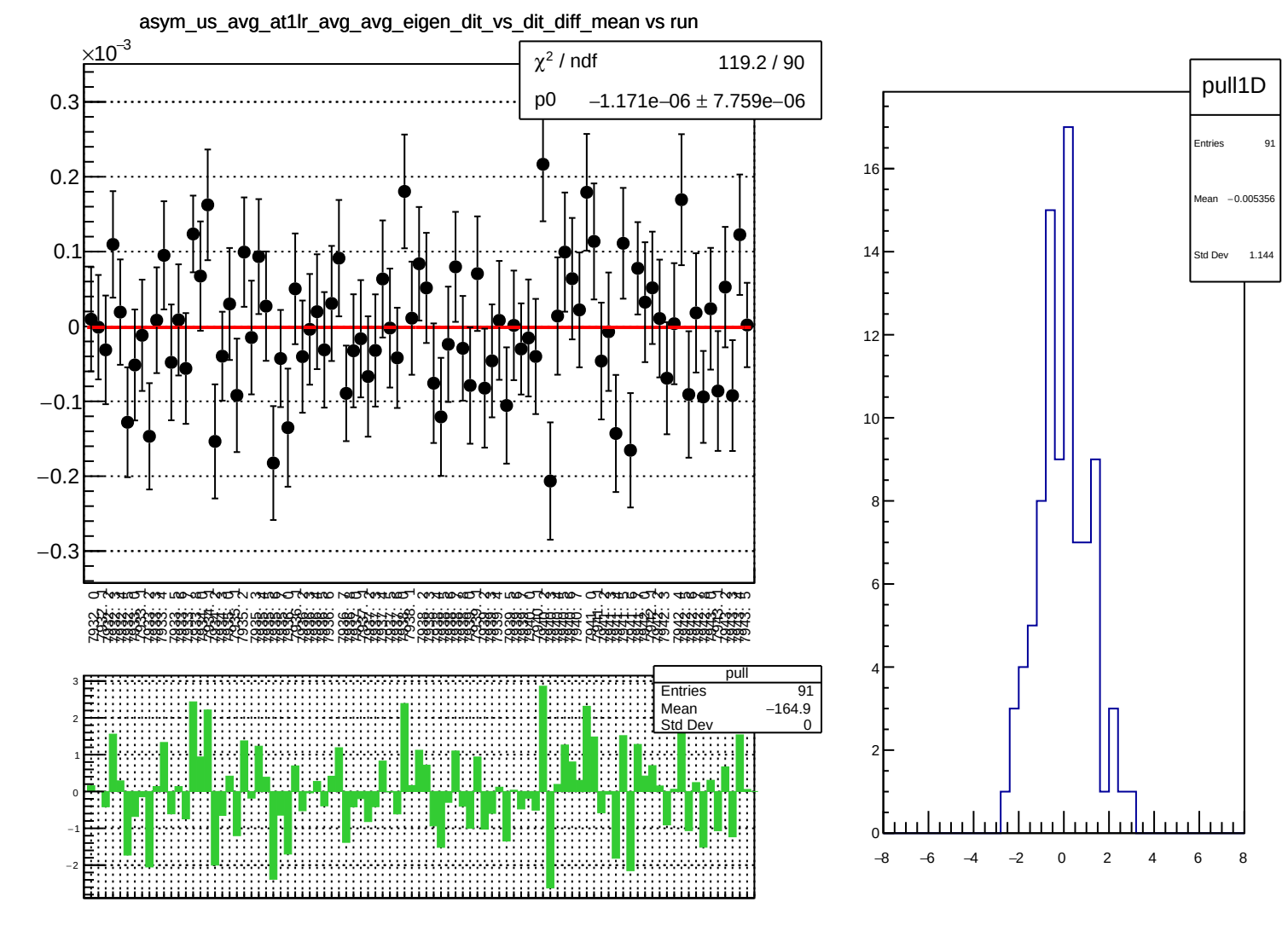

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 90
p0 −0.1003 ± 0.2558
pull
Entries 91
Mean −116.4
Std Dev 0

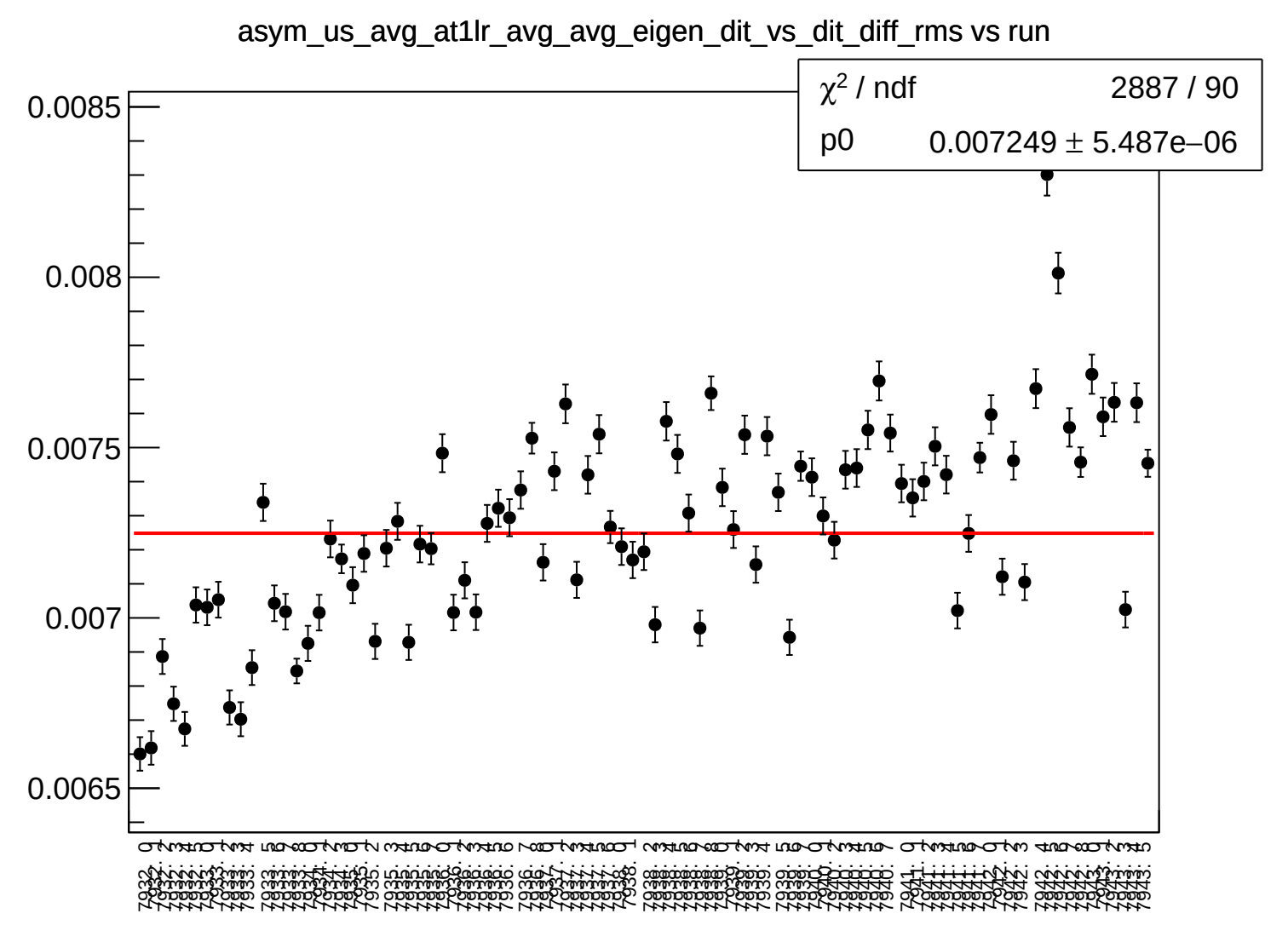

pull1D
Entries 91
Mean 0.01839
Std Dev 1.058

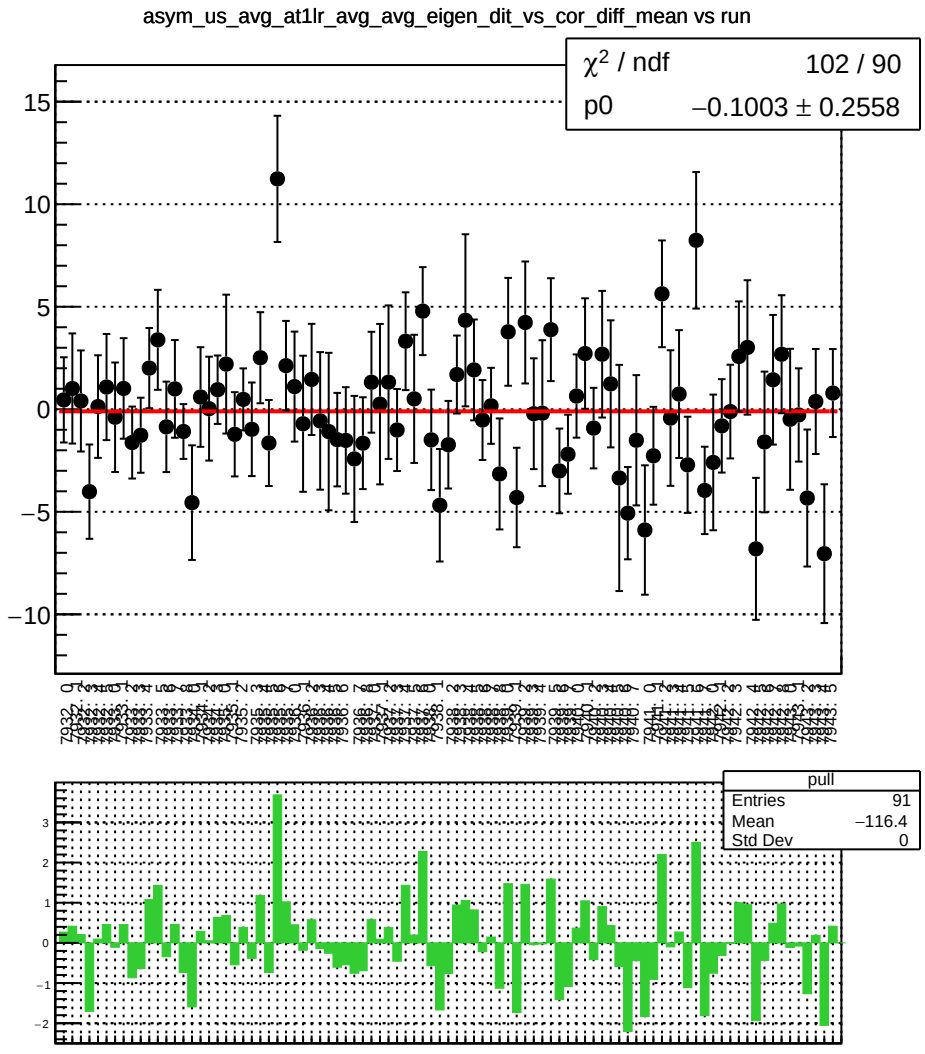

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.799e+04 / 90
p0 233.7 ± 0.1809
550
500
450
400
350
300
250
200
150

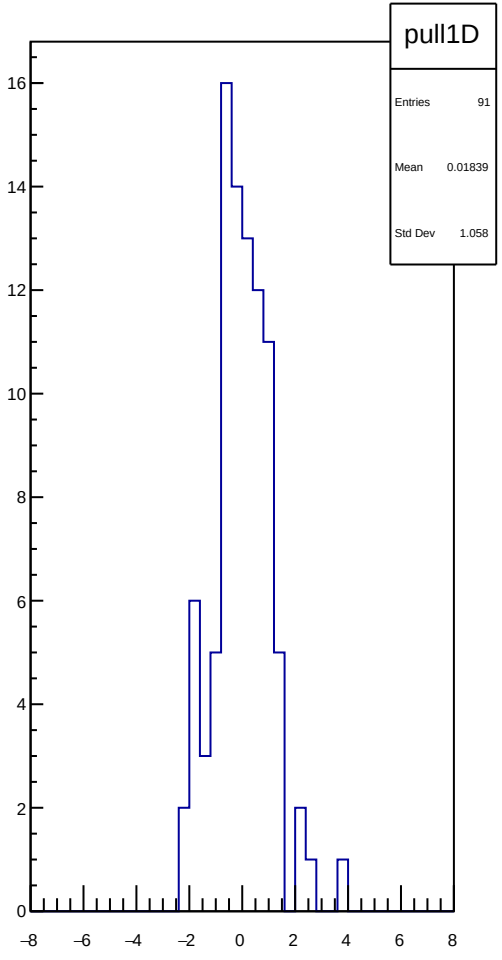

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 90
p0 −0.1003 ± 0.2558
pull
Entries 91
Mean −116.4
Std Dev 0
pull1D
Entries 91
Mean 0.01839
Std Dev 1.058

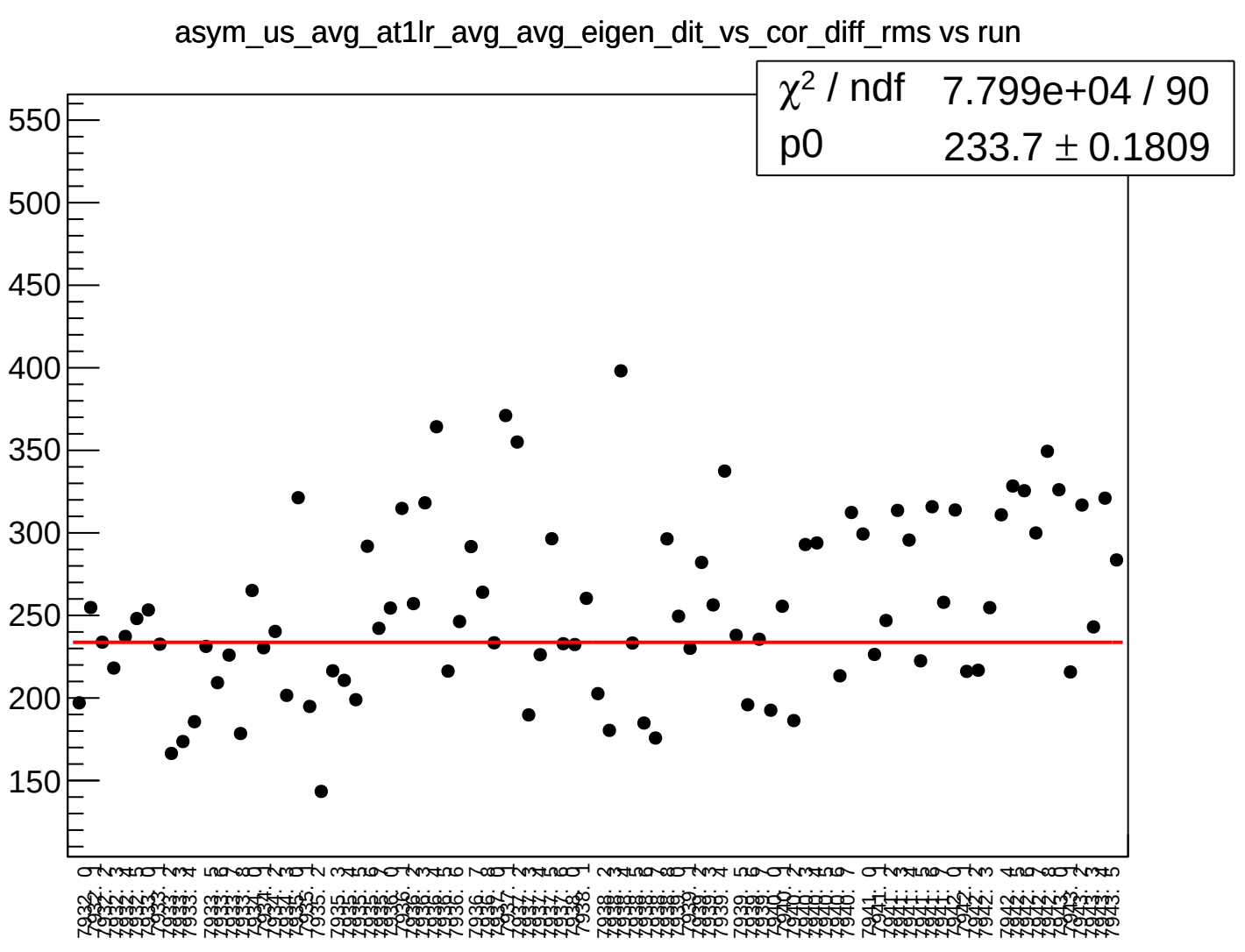

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.799e+04 / 90
p0 233.7 ± 0.1809
550
500
450
400
350
300
250
200
150

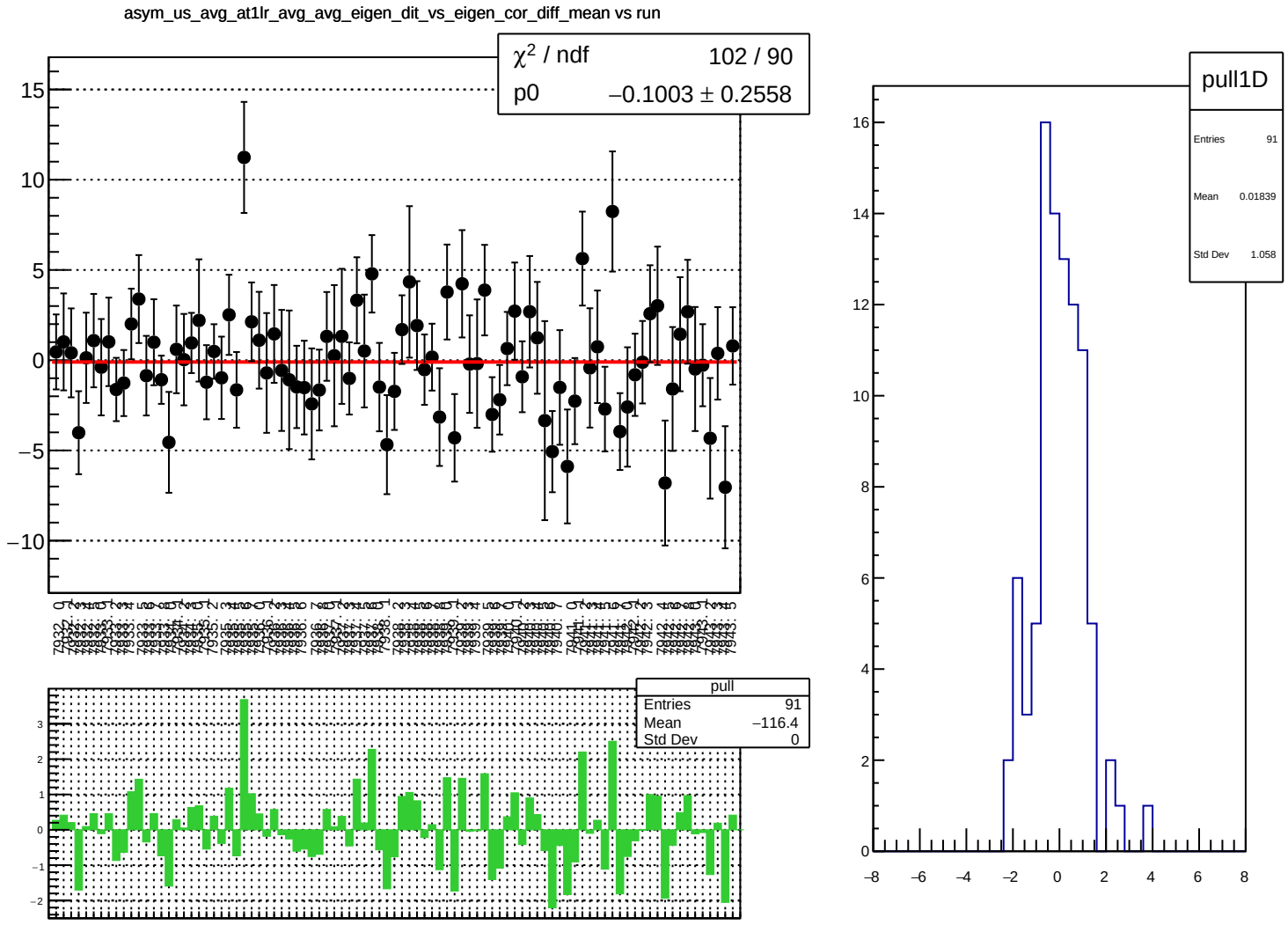

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 119.2 / 90
p0 −1.171e−06 ± 7.759e−06
pull
Entries 91
Mean −164.9
Std Dev 0
pull1D
Entries 91
Mean −0.005356
Std Dev 1.144

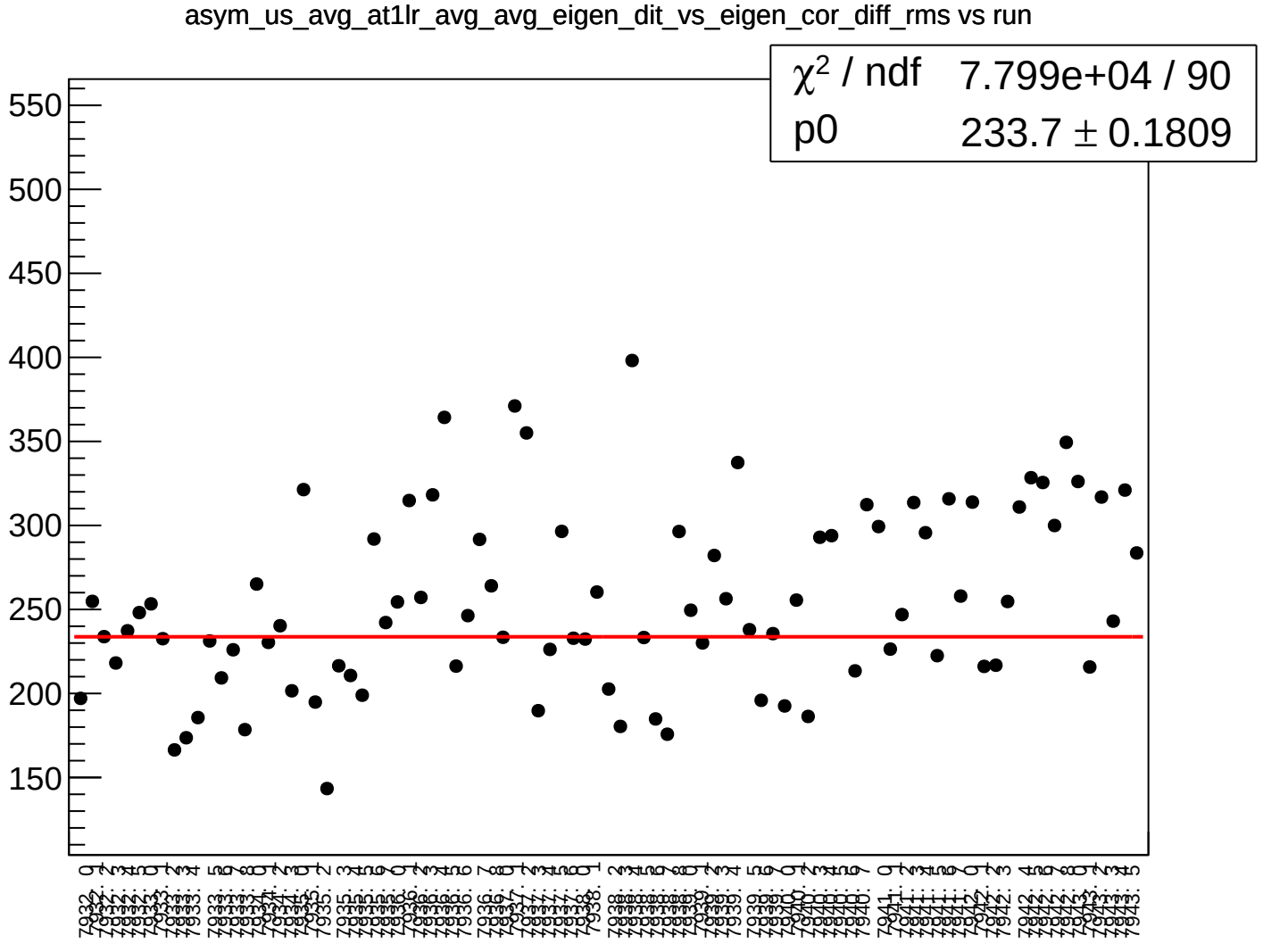

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2887 / 90
p0 0.007249 ± 5.487e−06
0.0085
0.008
0.0075
0.007
0.0065

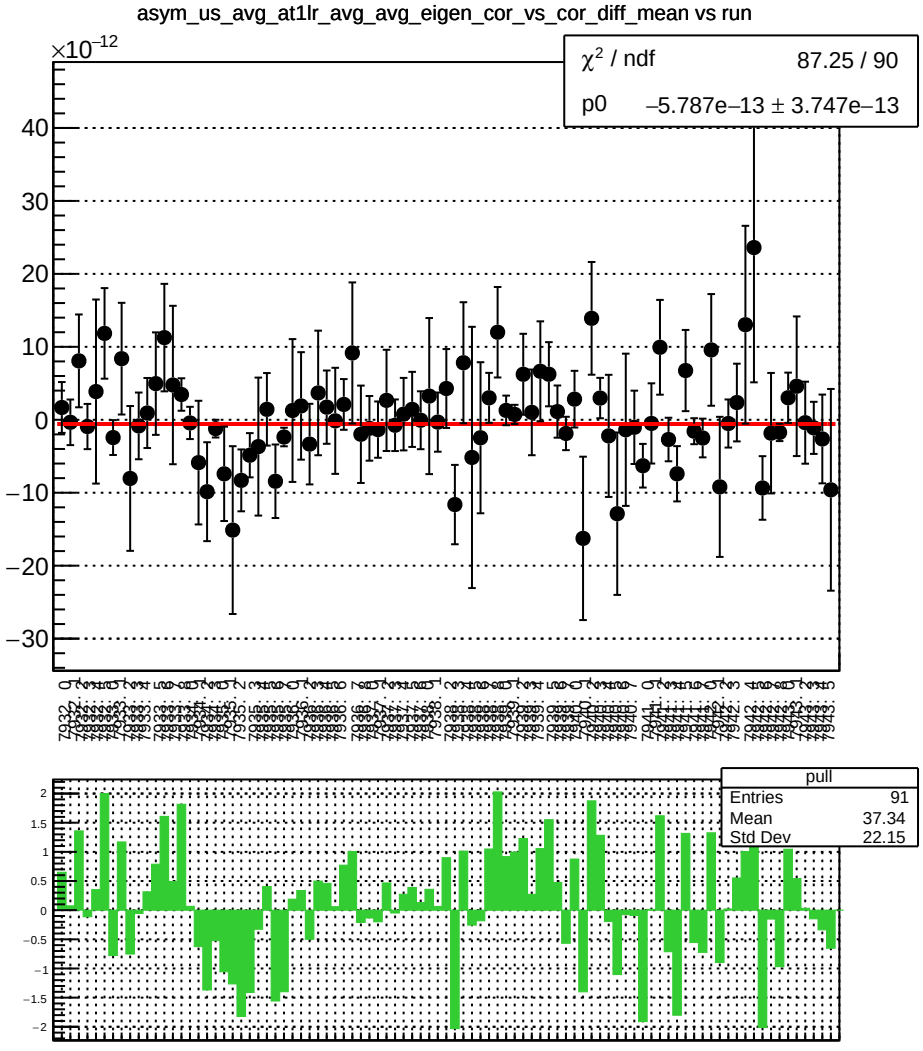

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 90
p0 −0.1003 ± 0.2558
pull
Entries 91
Mean −116.4
Std Dev 0

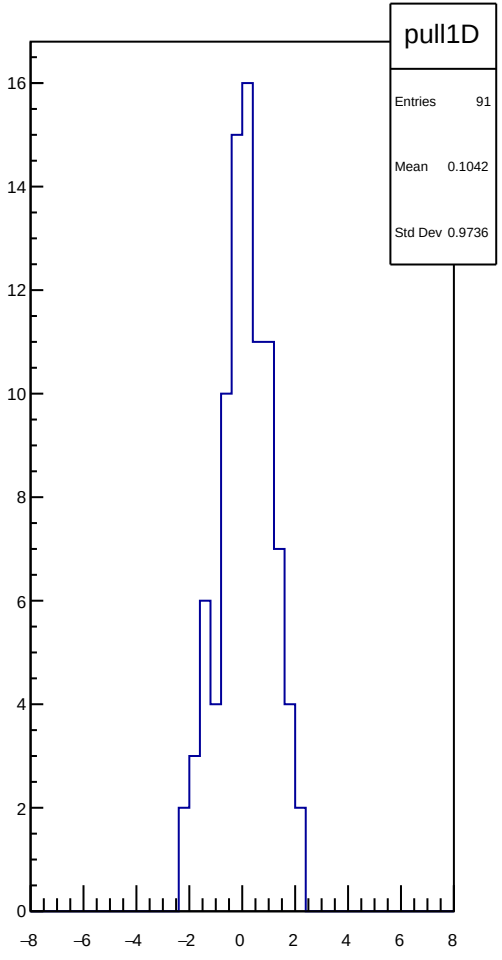

pull1D
Entries 91
Mean 0.01839
Std Dev 1.058

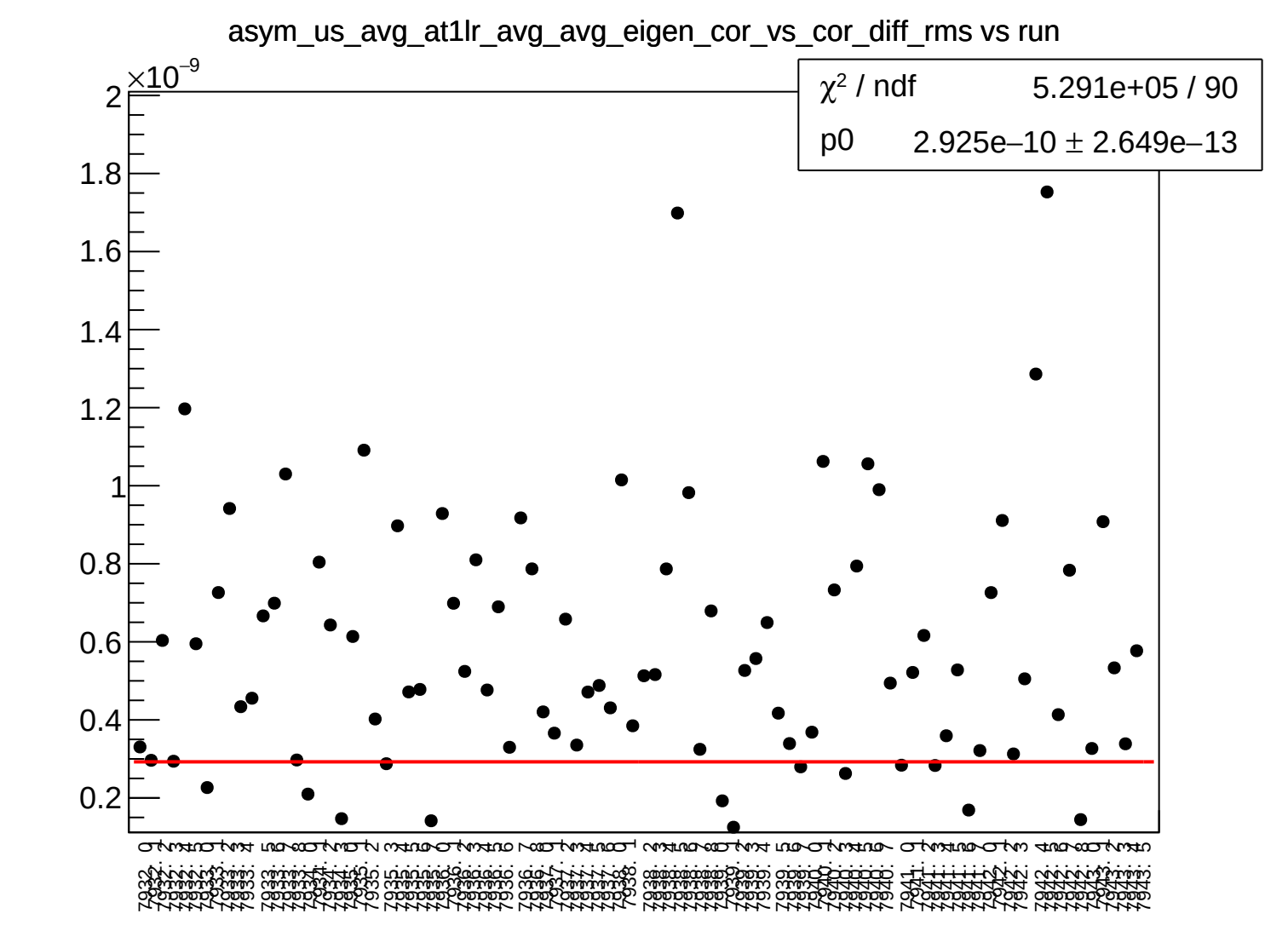

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.799e+04 / 90
p0 233.7 ± 0.1809
550
500
450
400
350
300
250
200
150

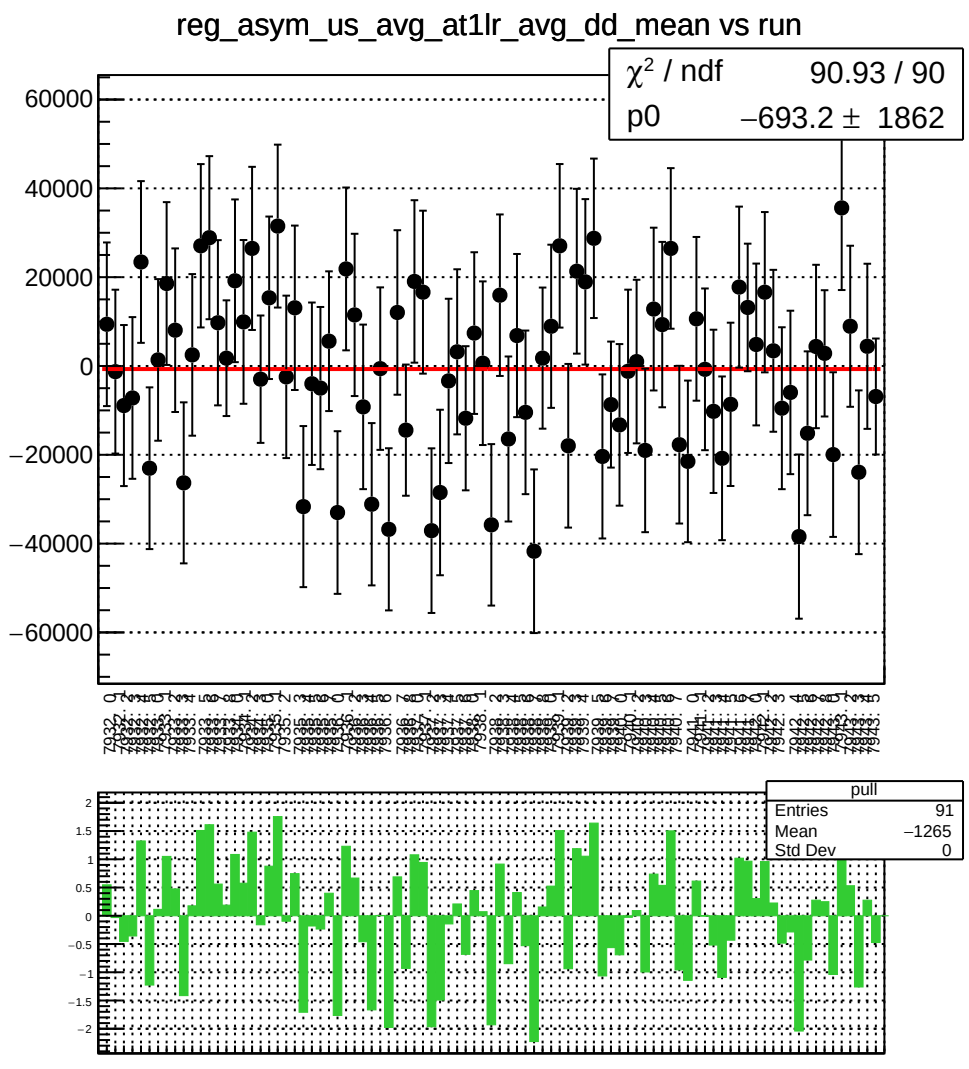

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 90
p0 −0.1003 ± 0.2558
pull
Entries 91
Mean −116.4
Std Dev 0
pull1D
Entries 91
Mean 0.01839
Std Dev 1.058

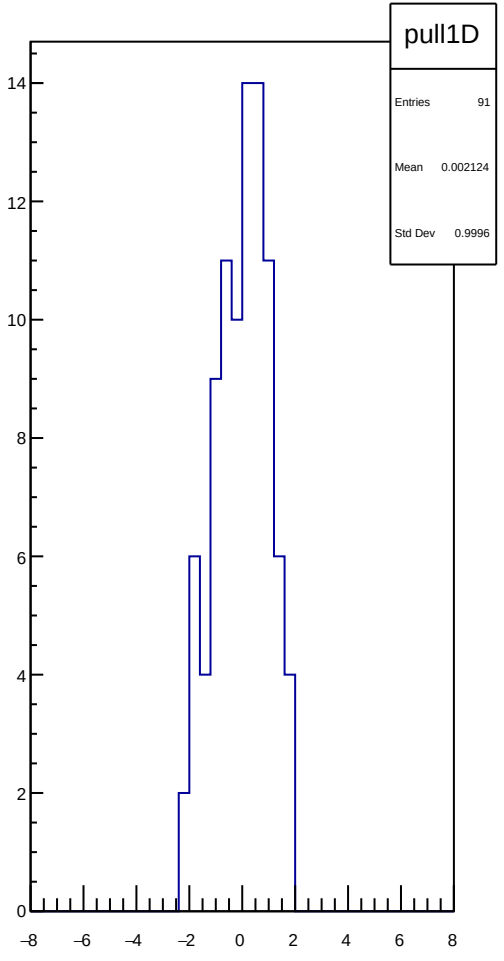

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.799e+04 / 90
p0 233.7 ± 0.1809
550
500
450
400
350
300
250
200
150

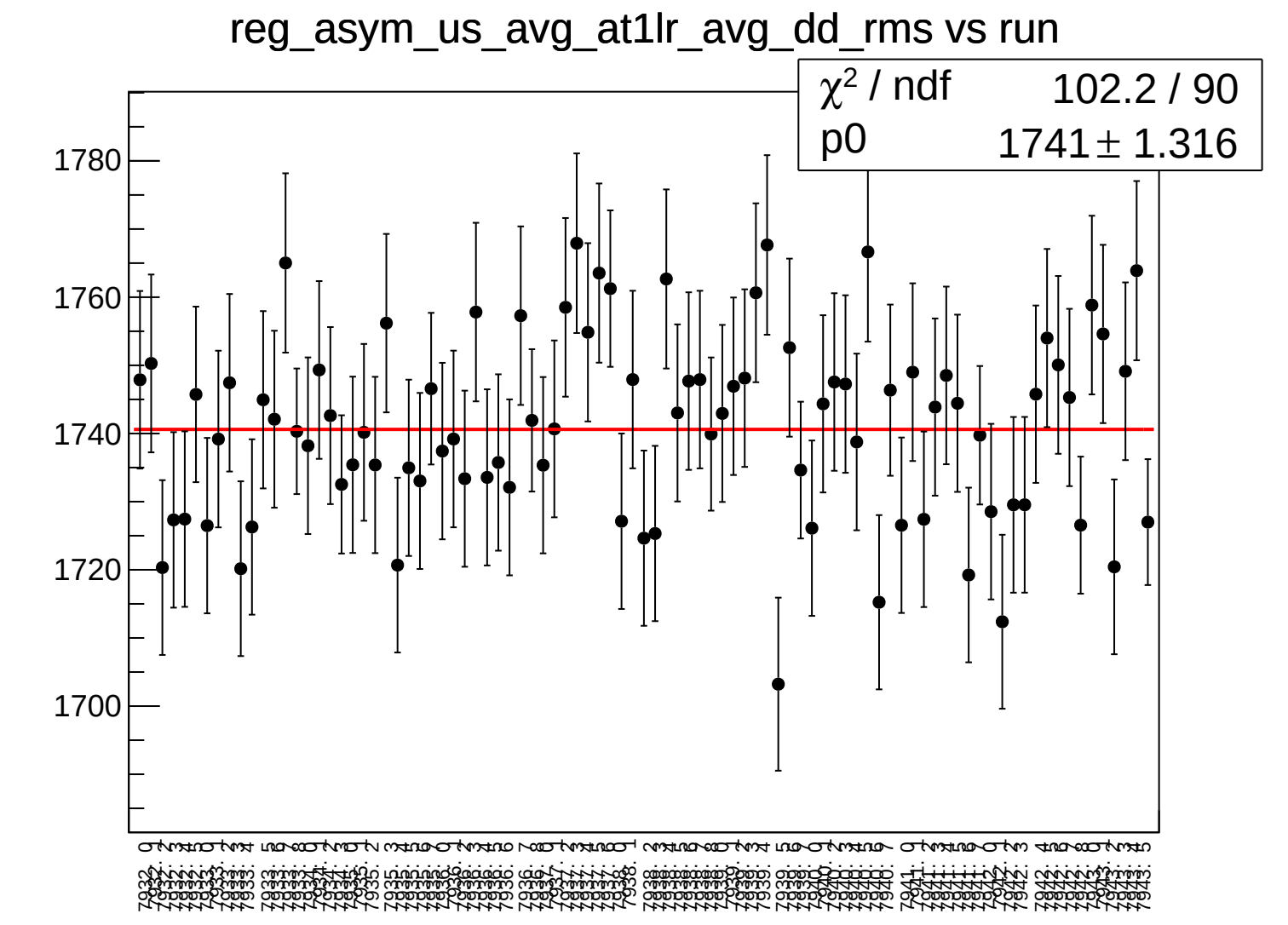

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.25 / 90
p0 −5.787e−13 ± 3.747e−13
pull
Entries 91
Mean 37.34
Std Dev 22.15

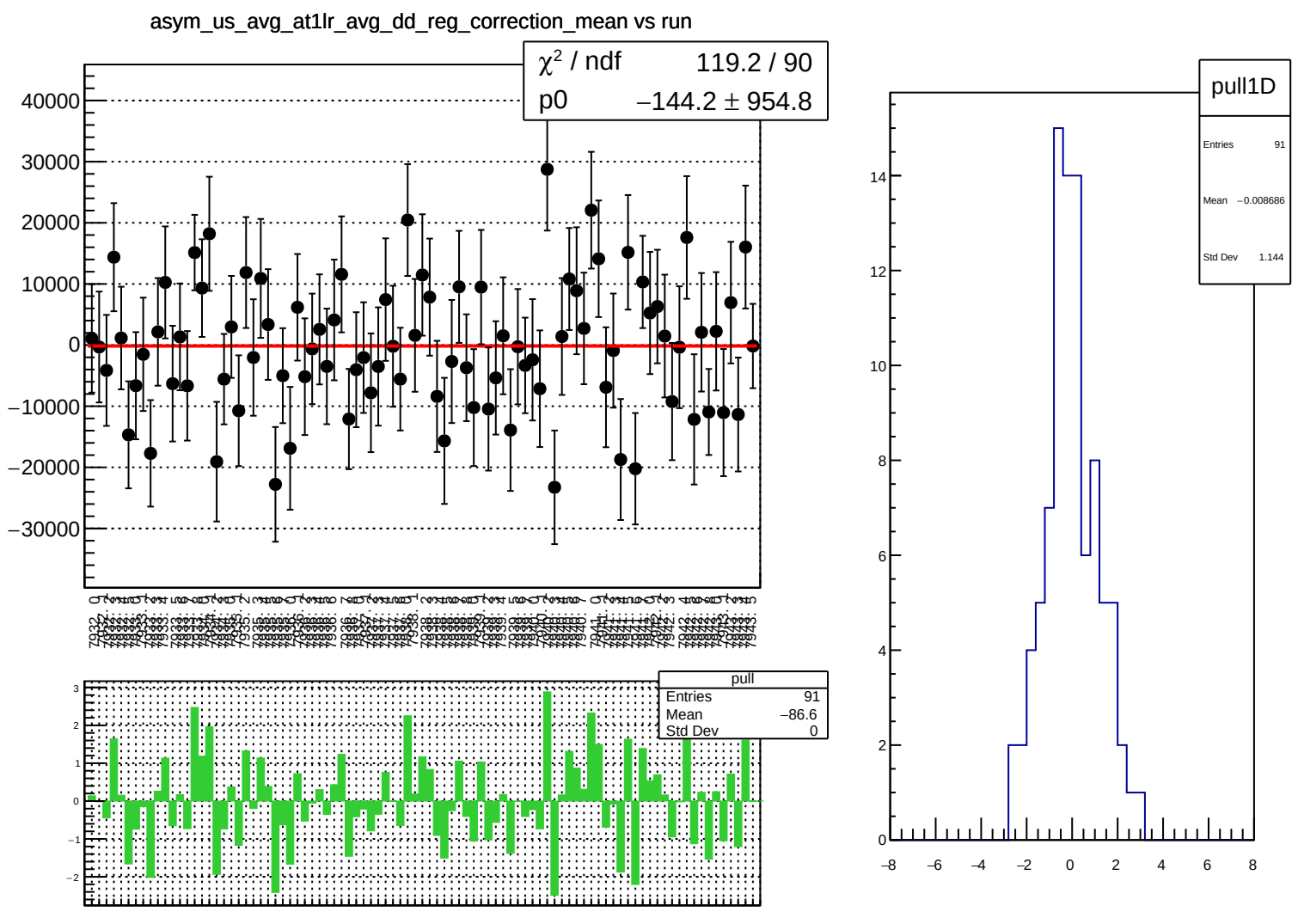

pull1D
Entries 91
Mean 0.1042
Std Dev 0.9736

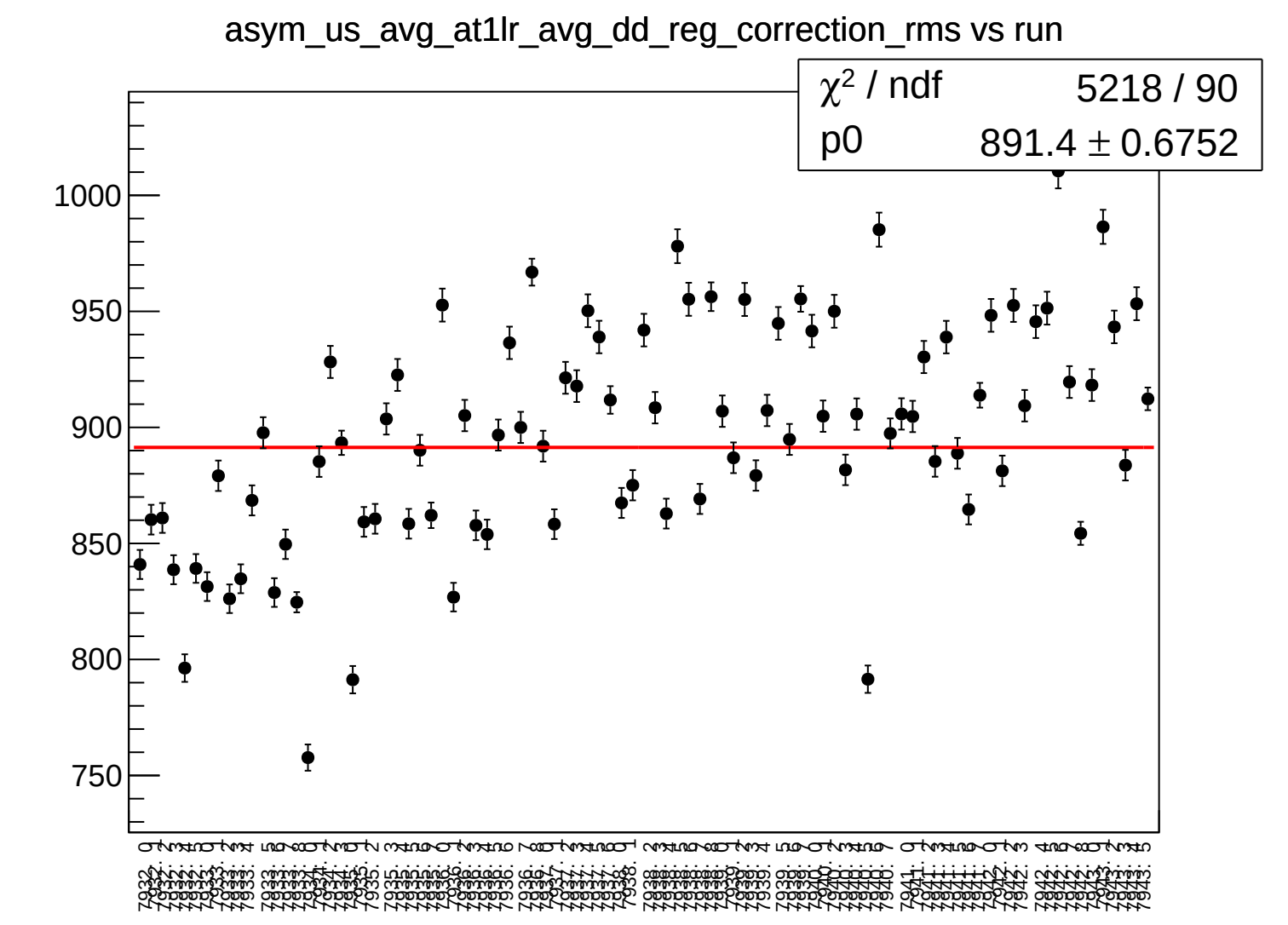

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.291e+05 / 90
p0 2.925e−10 ± 2.649e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

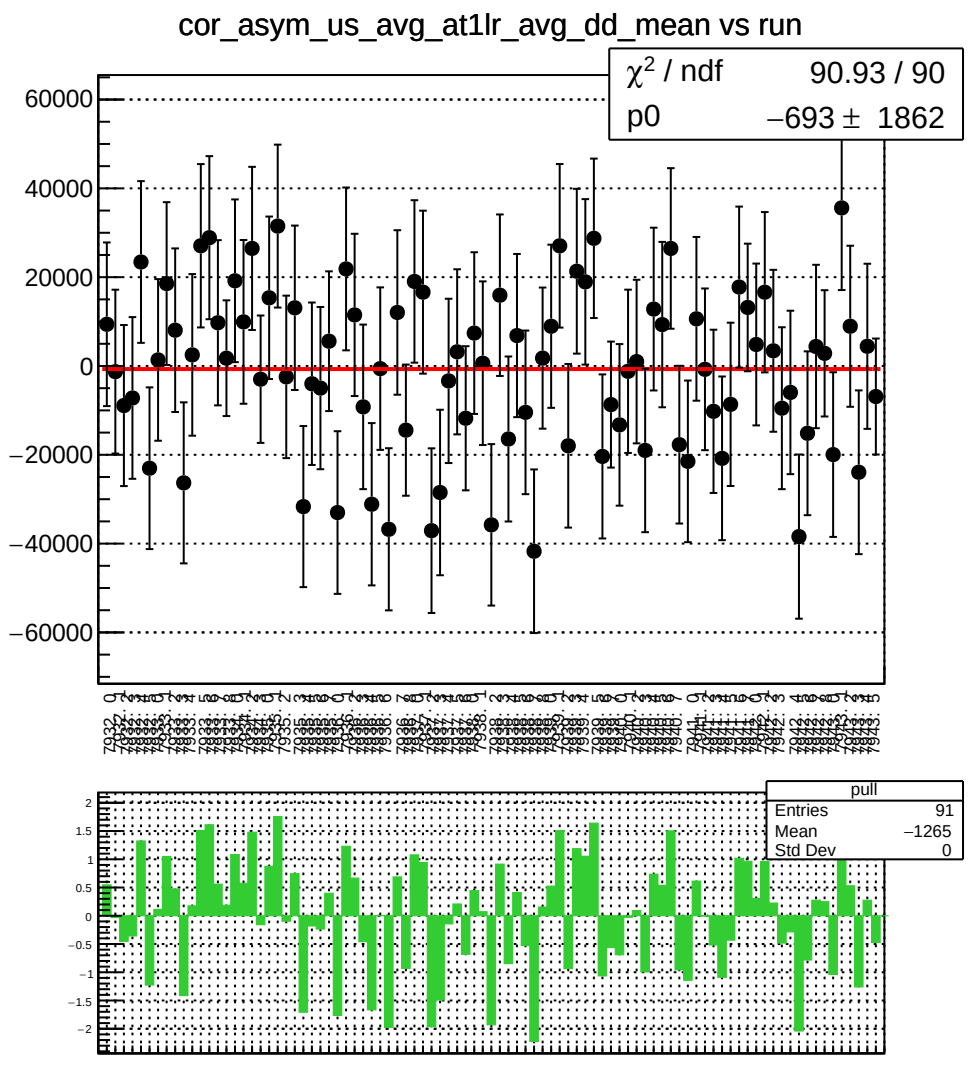

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.93 / 90
p0 −693.2 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1265
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

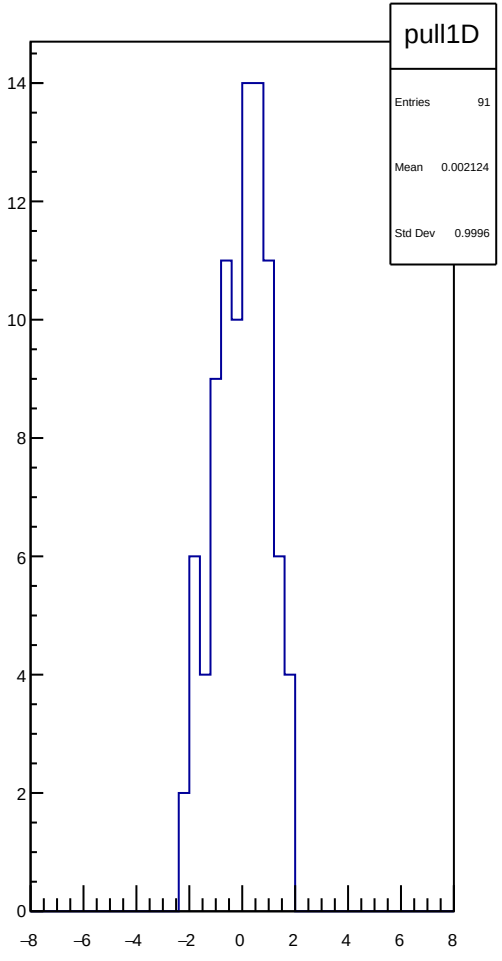

pull1D
Entries 91
Mean 0.002124
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

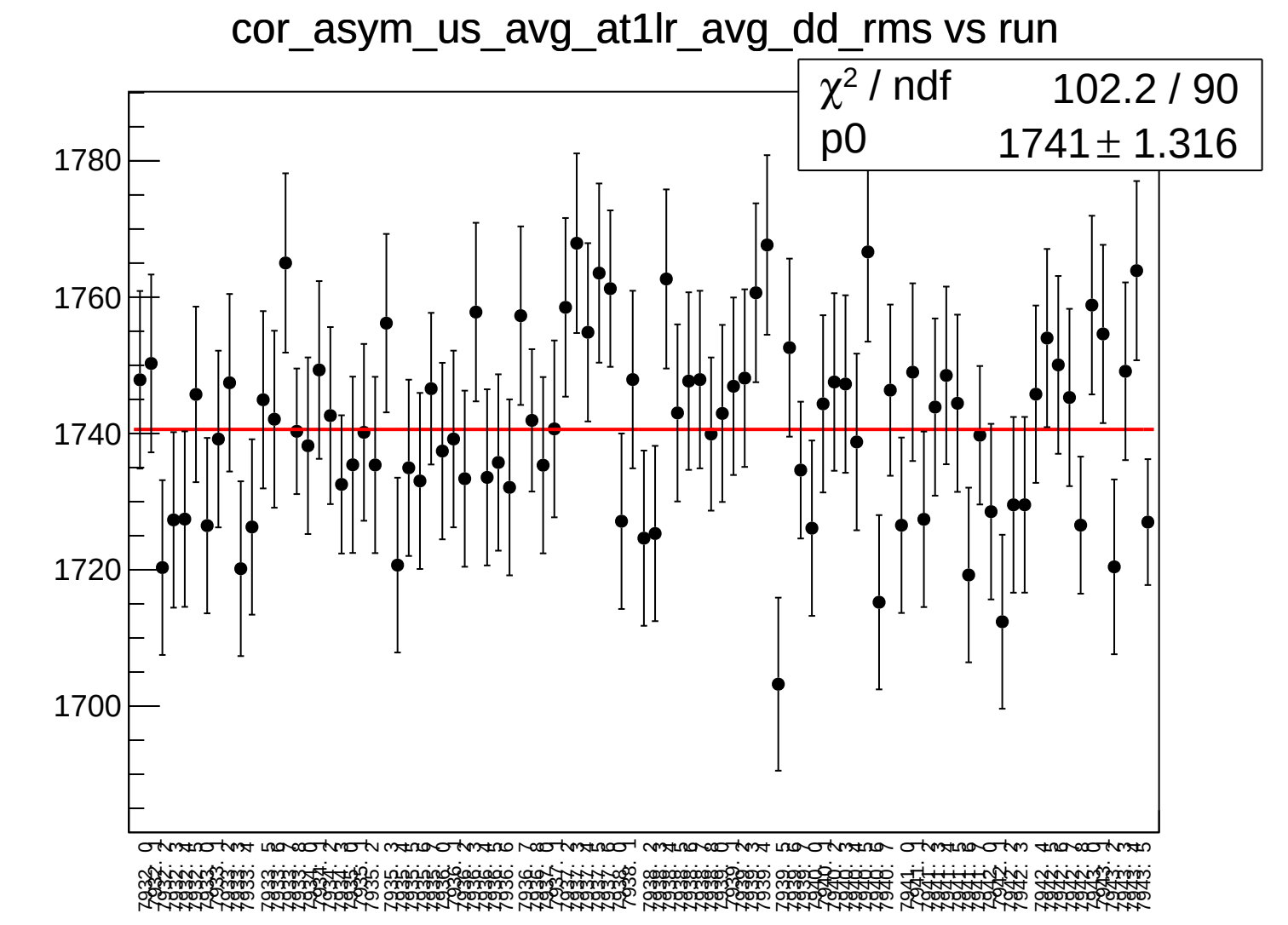

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 102.2 / 90
p0 1741 ± 1.316
1780
1760
1740
1720
1700

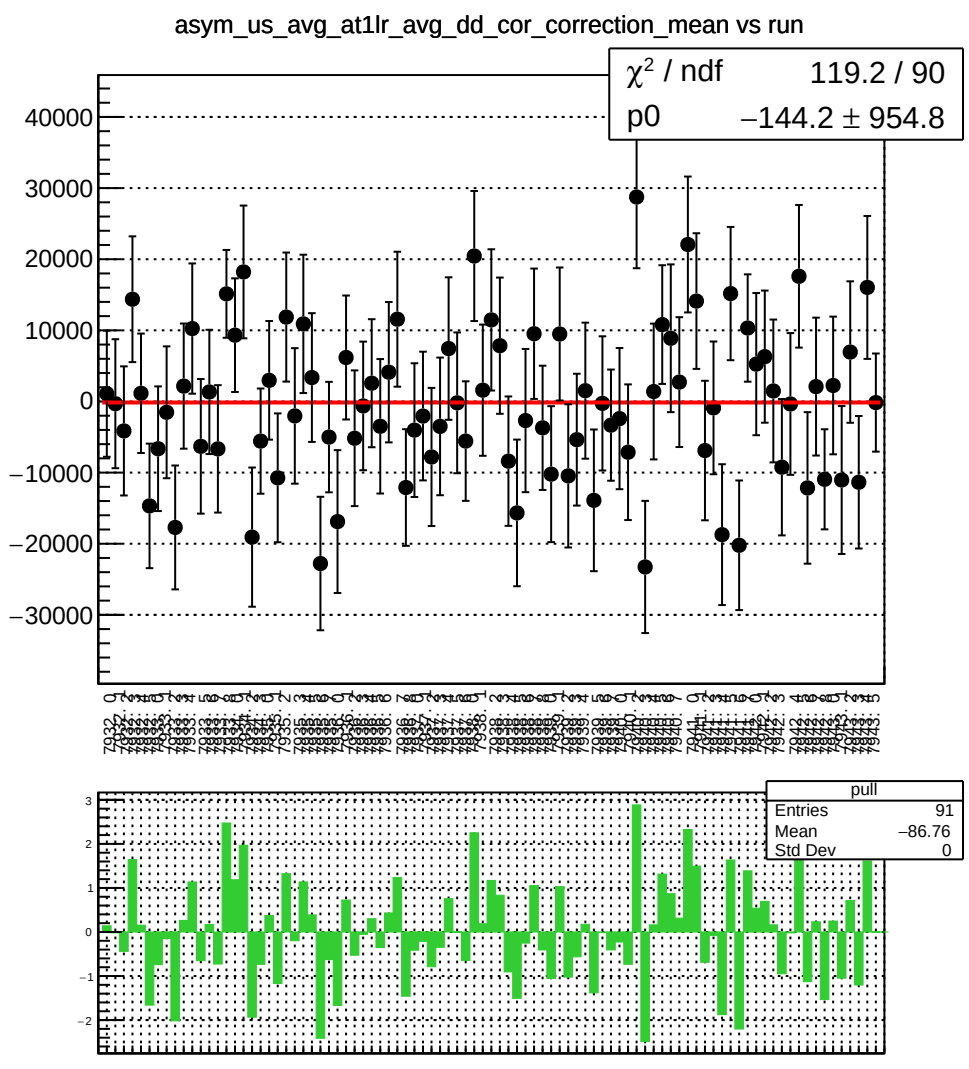

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 119.2 / 90
p0 −144.2 ± 954.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −86.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.008686
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

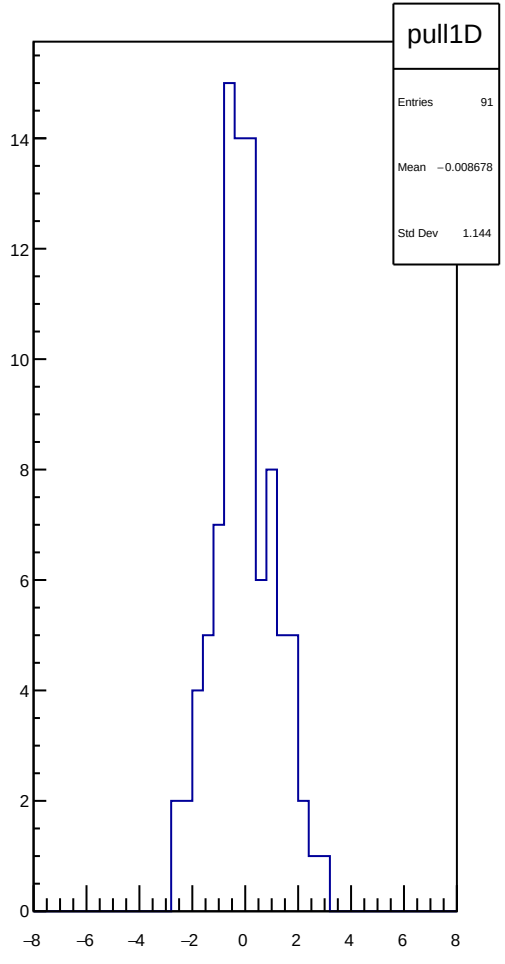

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5218 / 90
p0 891.4 ± 0.6752
1000
950
900
850
800
750

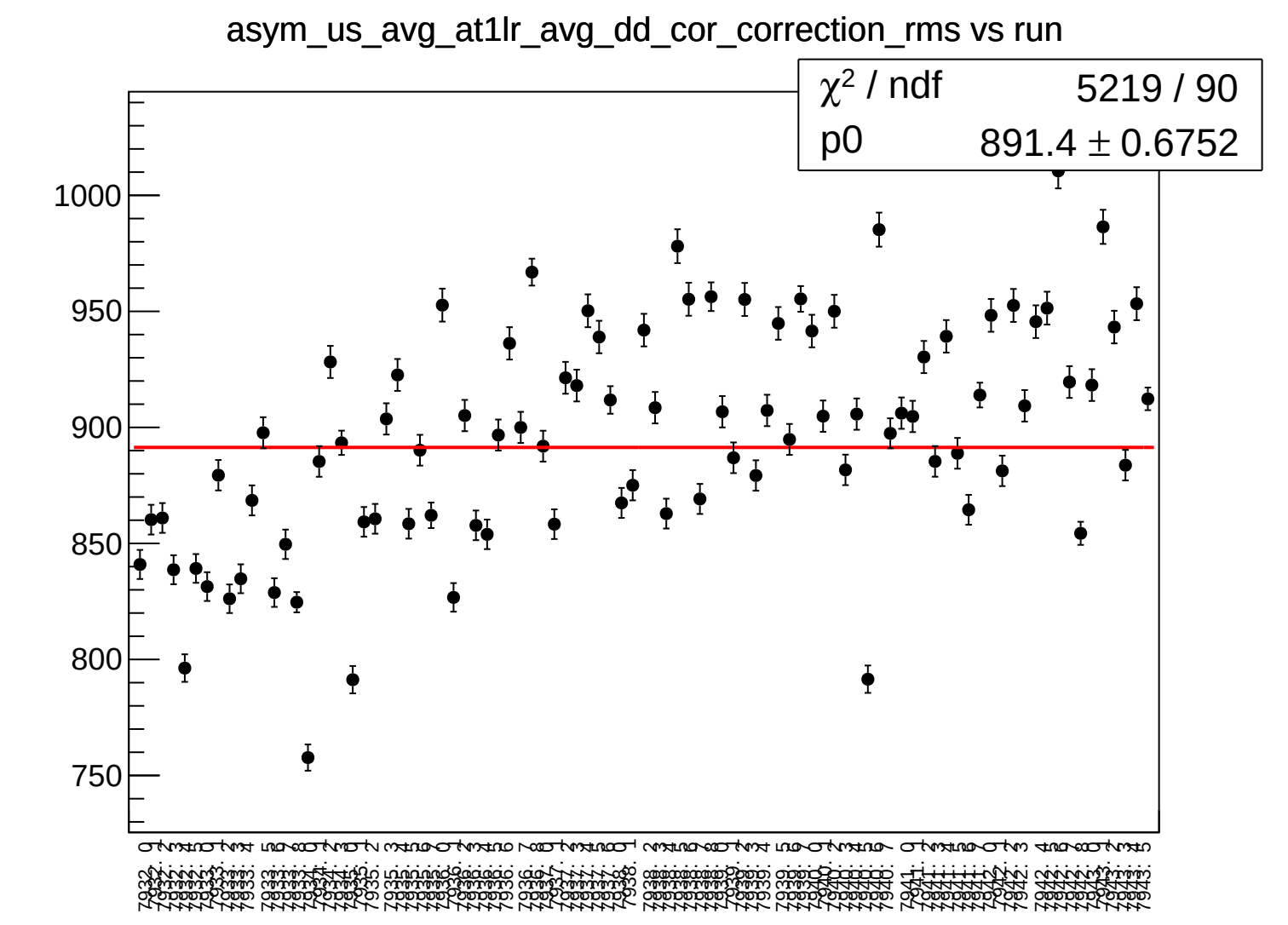

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.93 / 90
p0 −693 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1265
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

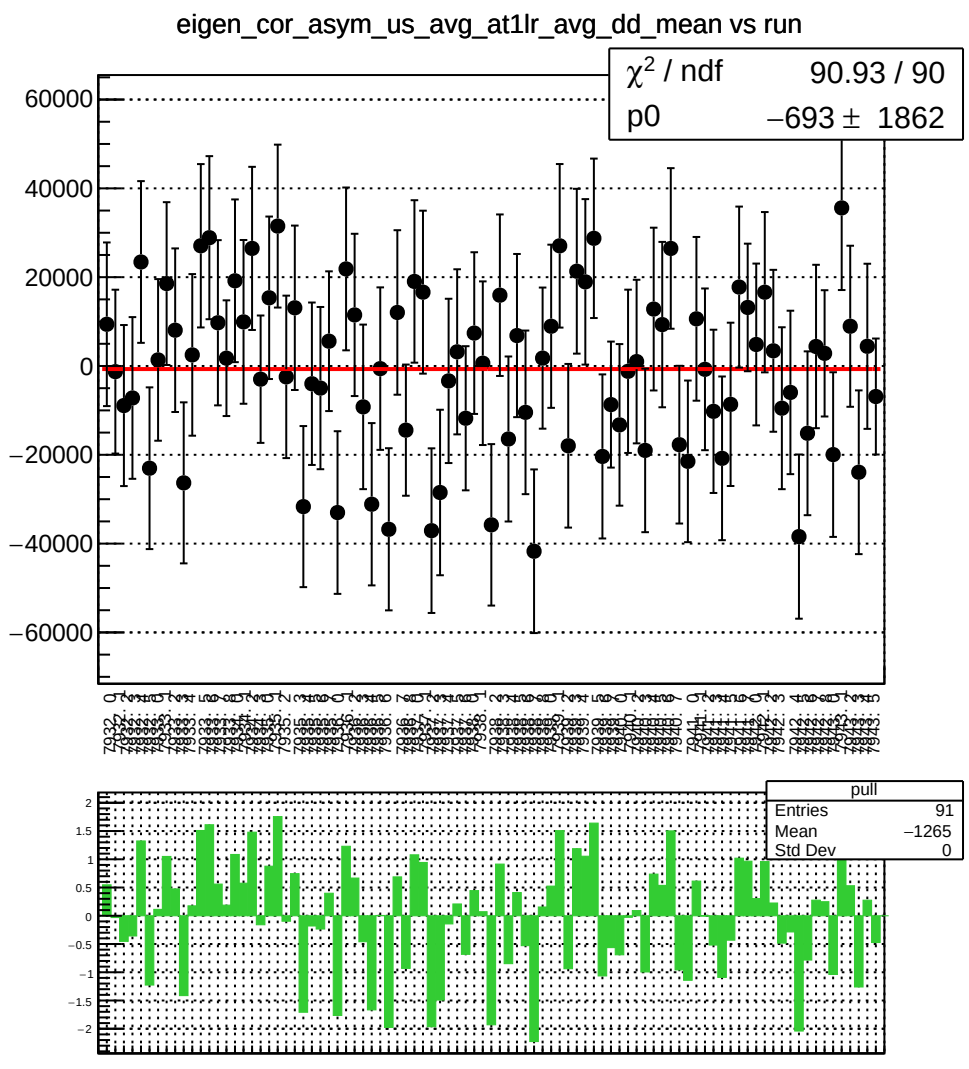

pull1D
Entries 91
Mean 0.002124
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

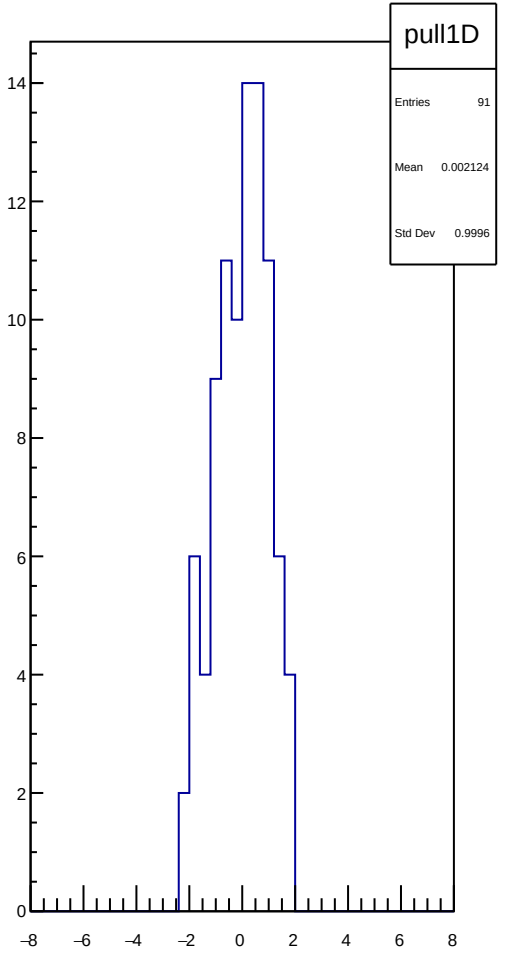

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 102.2 / 90
p0 1741 ± 1.316
1780
1760
1740
1720
1700

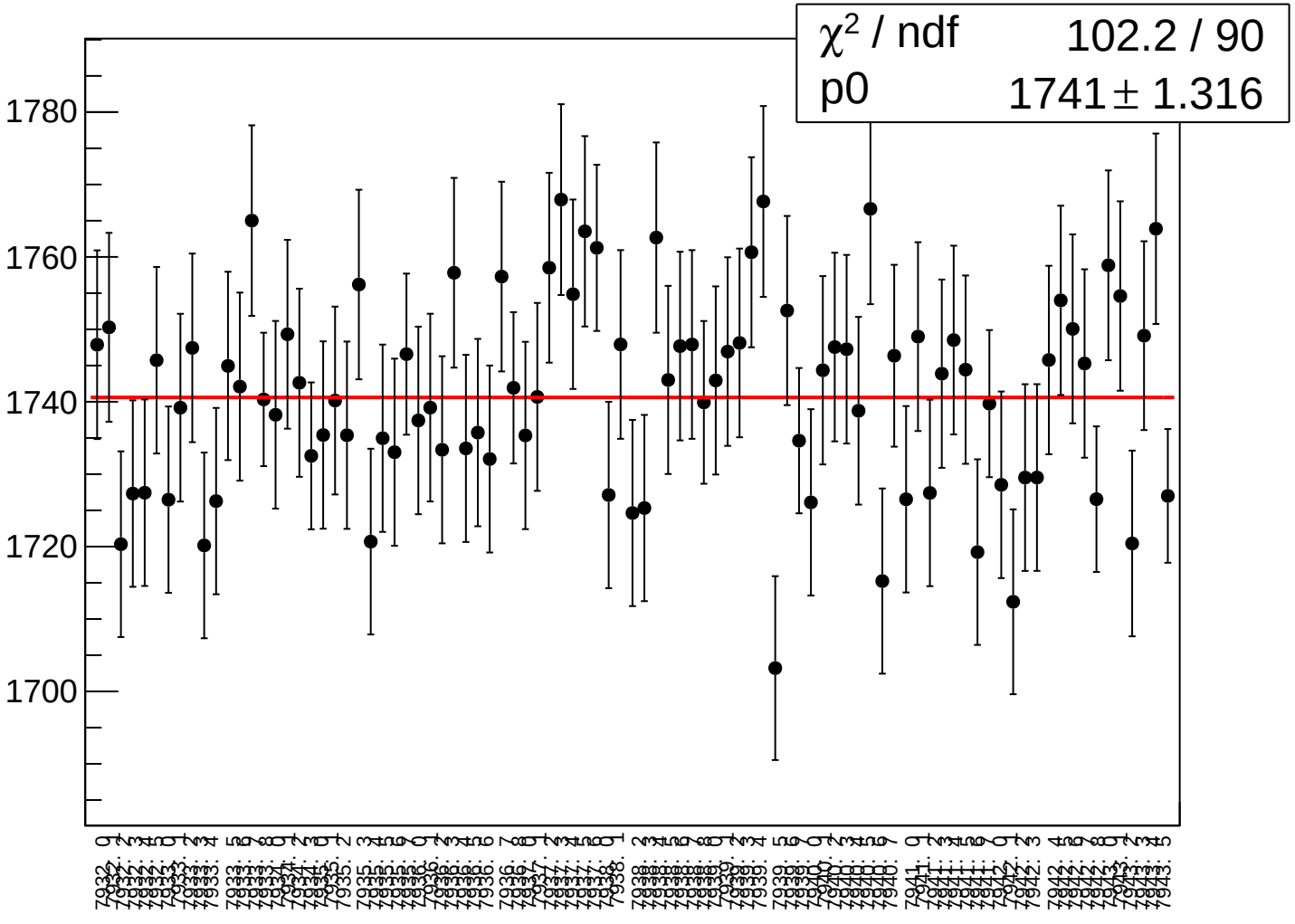

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 119.2 / 90
p0 −144.2 ± 954.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −86.76
Std Dev 0
3
2
1
0
−1
−2

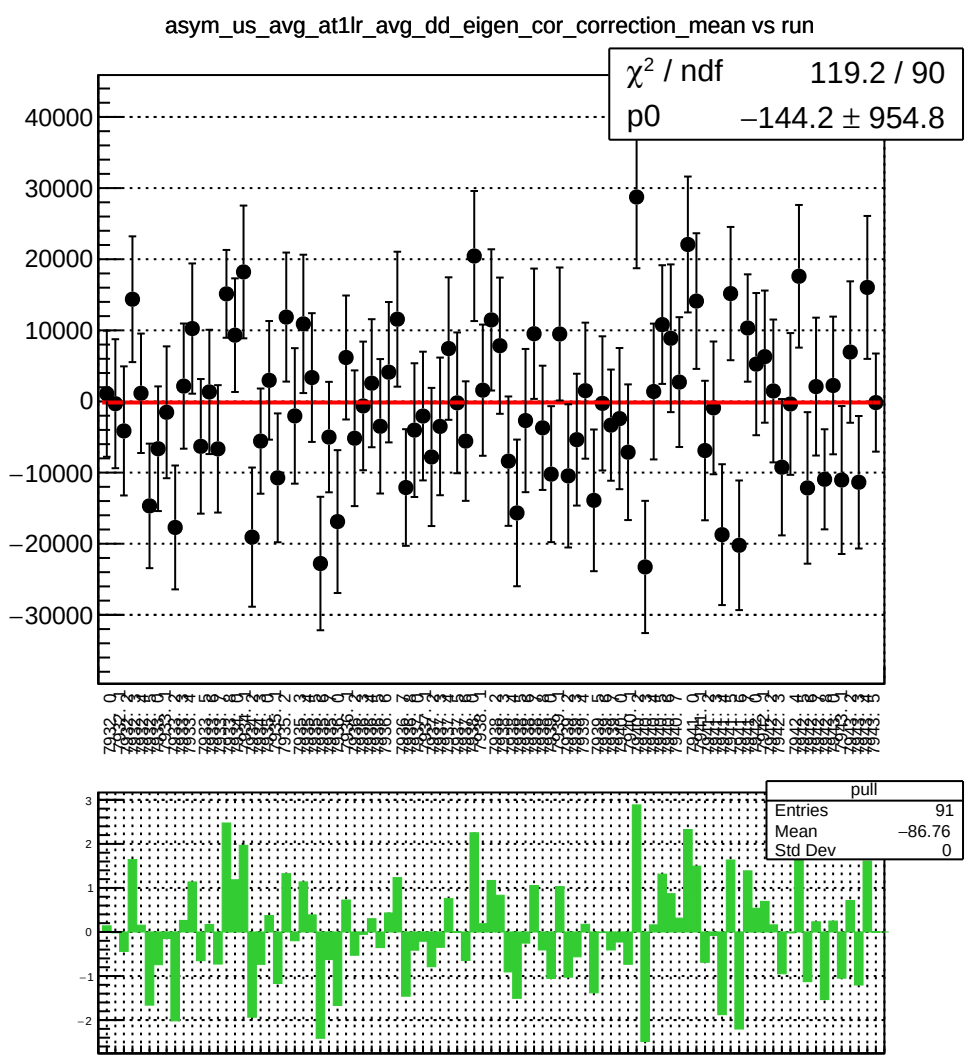

pull1D
Entries 91
Mean −0.008678
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

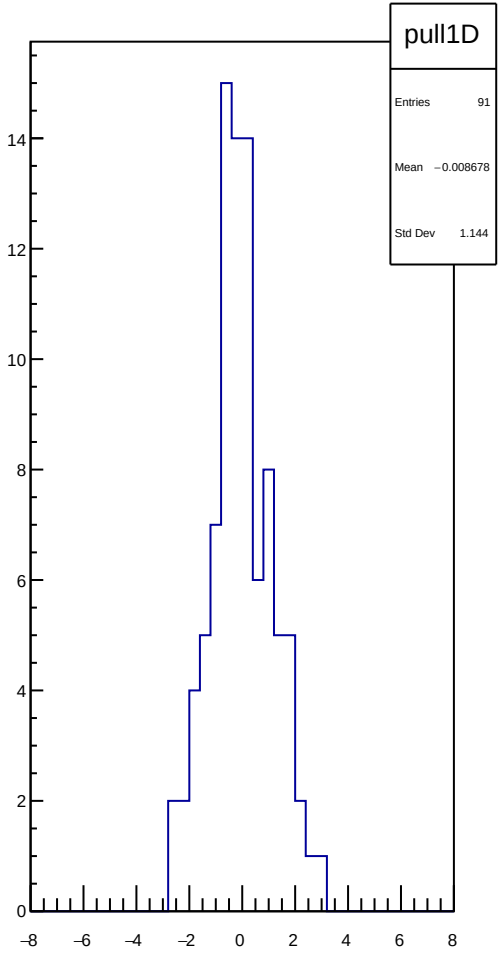

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5219 / 90
p0 891.4 ± 0.6752
1000
950
900
850
800
750

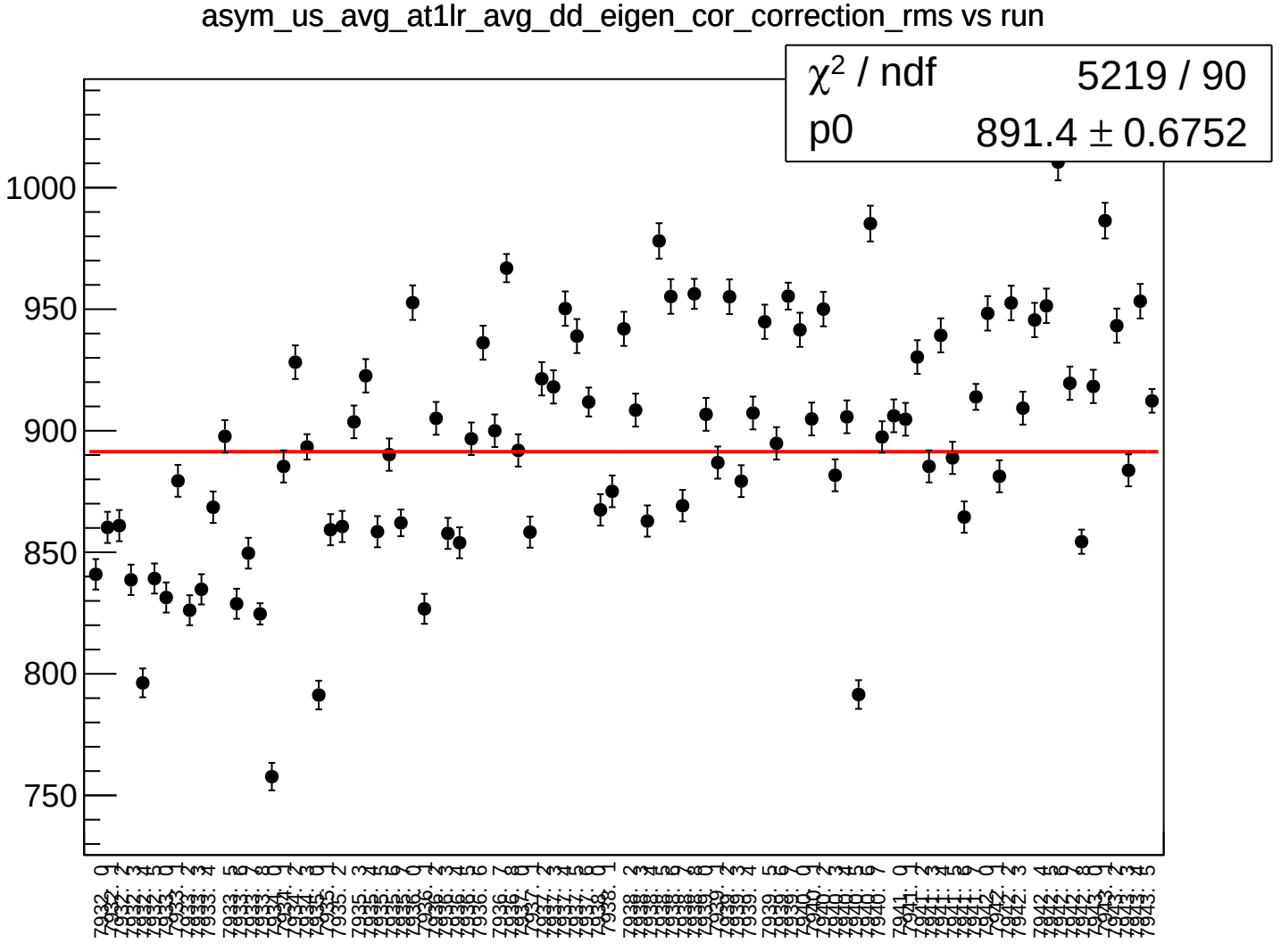

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.93 / 90
p0 −693 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1265
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

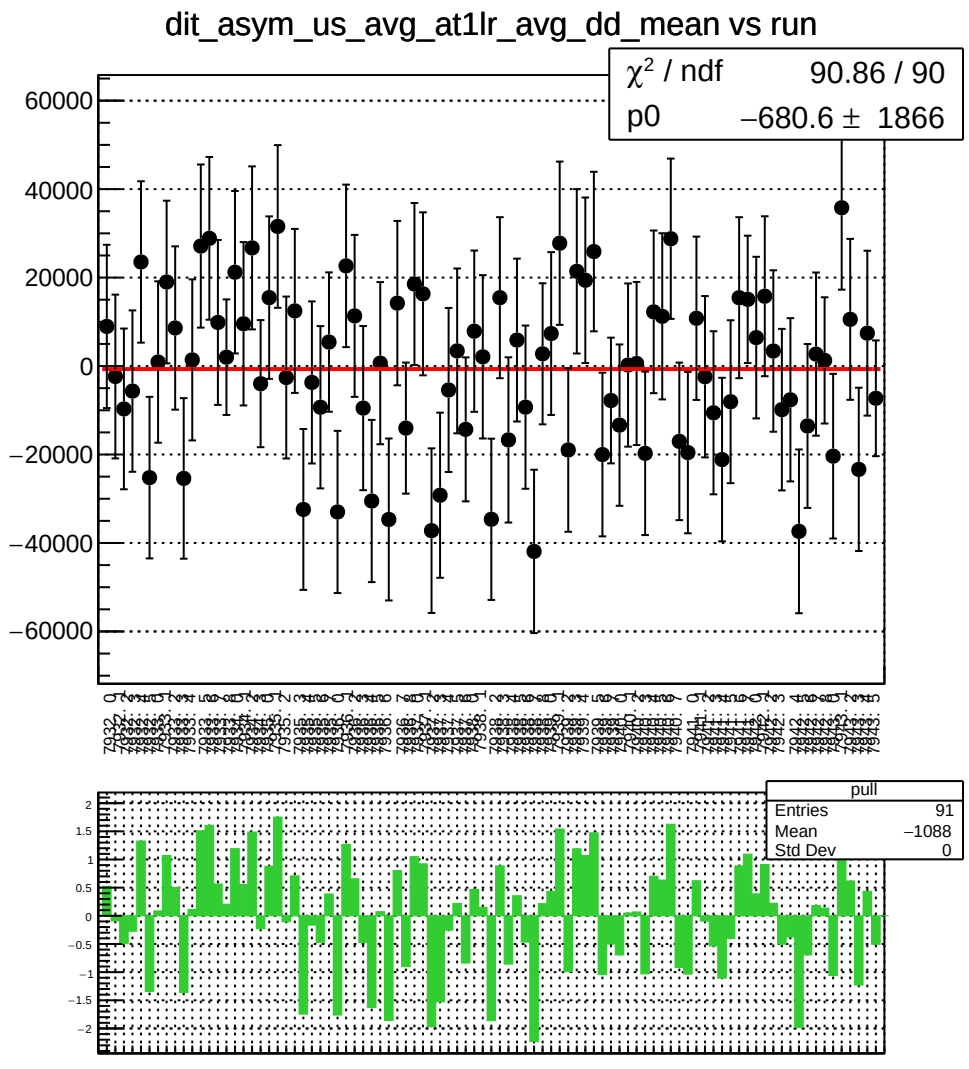

pull1D
Entries 91
Mean 0.002124
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

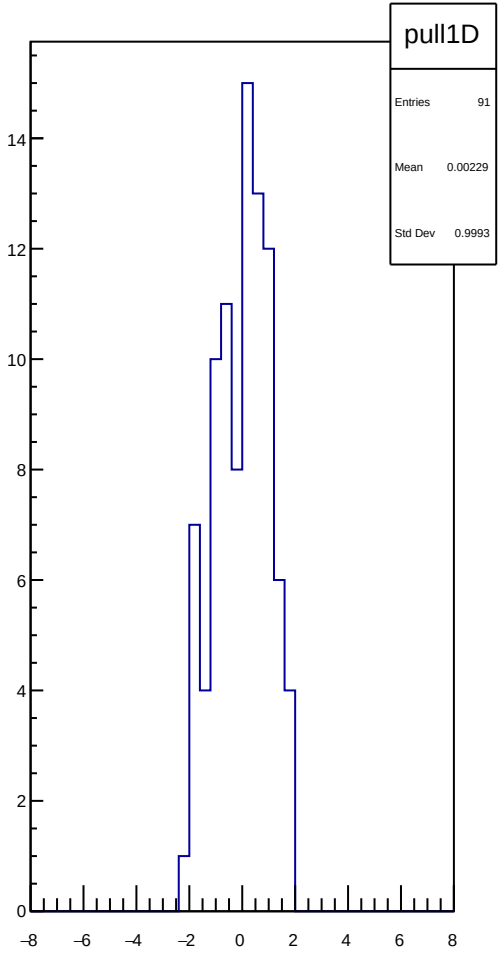

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 102.2 / 90
p0 1741 ± 1.316
1780
1760
1740
1720
1700

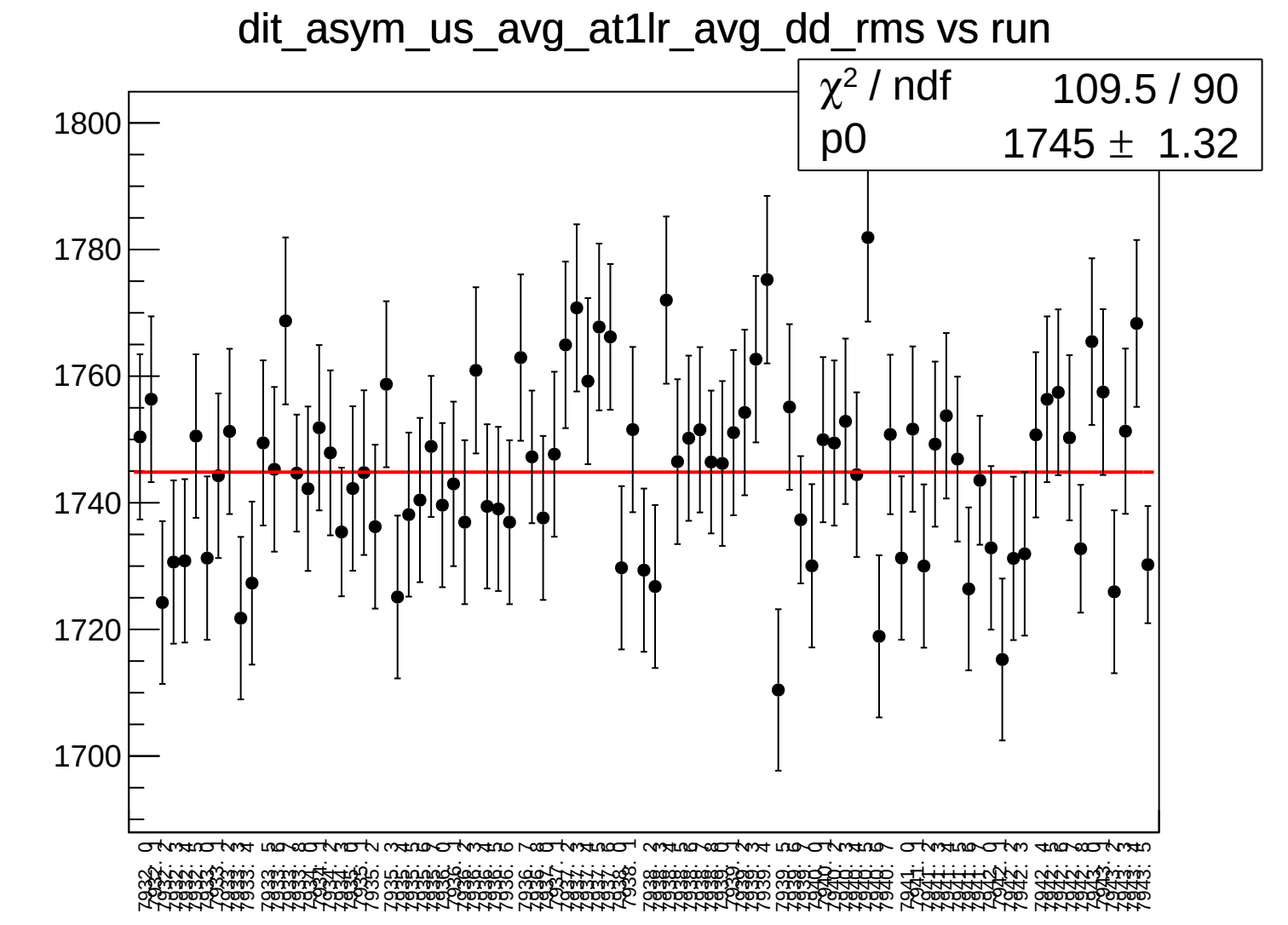

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 119.2 / 90
p0 −144.2 ± 954.8
pull
Entries 91
Mean −86.76
Std Dev 0

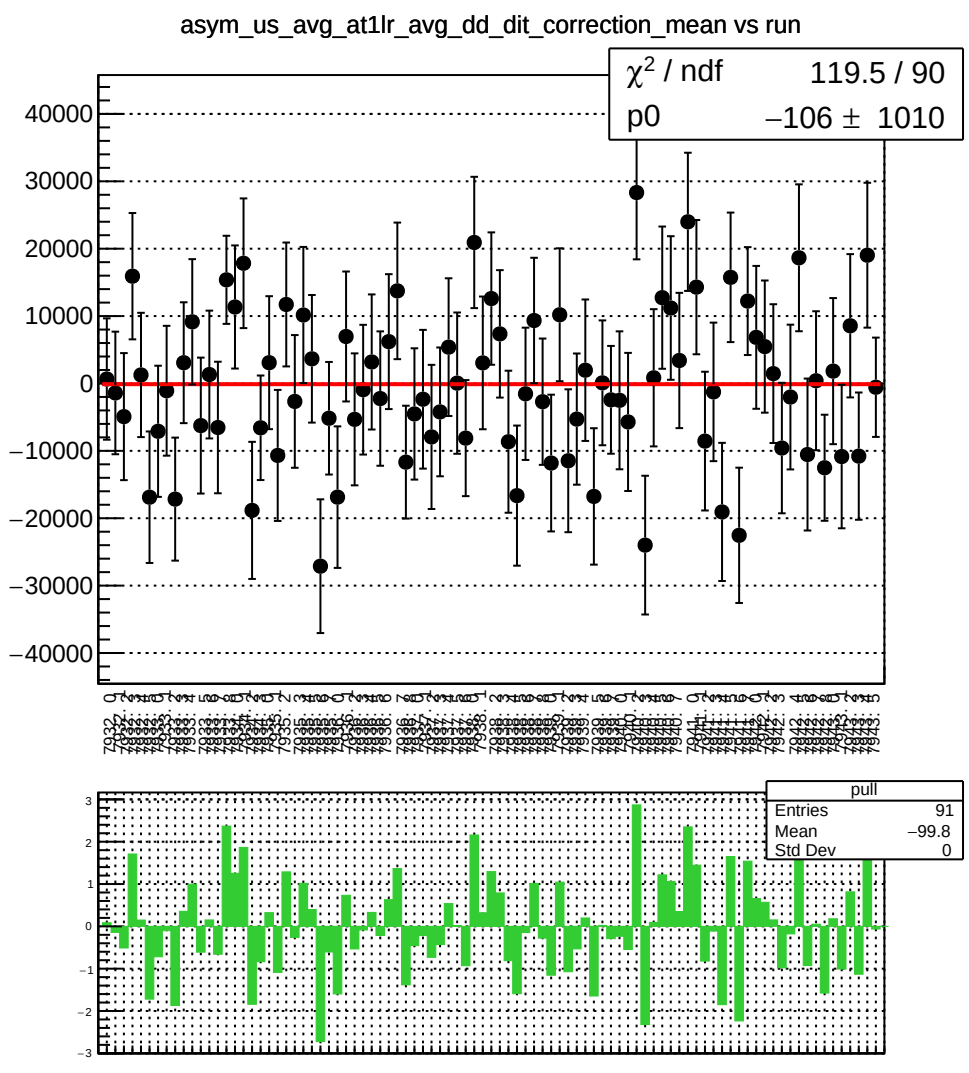

pull1D
Entries 91
Mean −0.008678
Std Dev 1.144

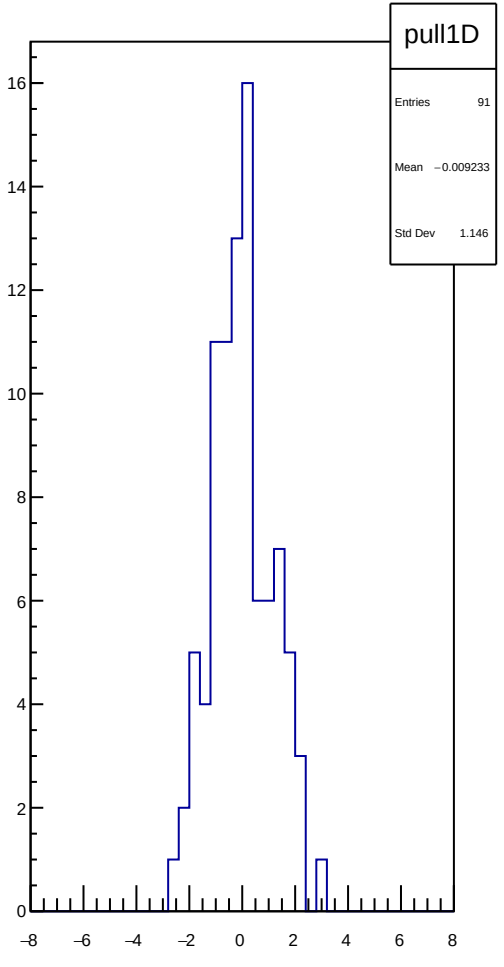

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5219 / 90
p0 891.4 ± 0.6752
1000
950
900
850
800
750

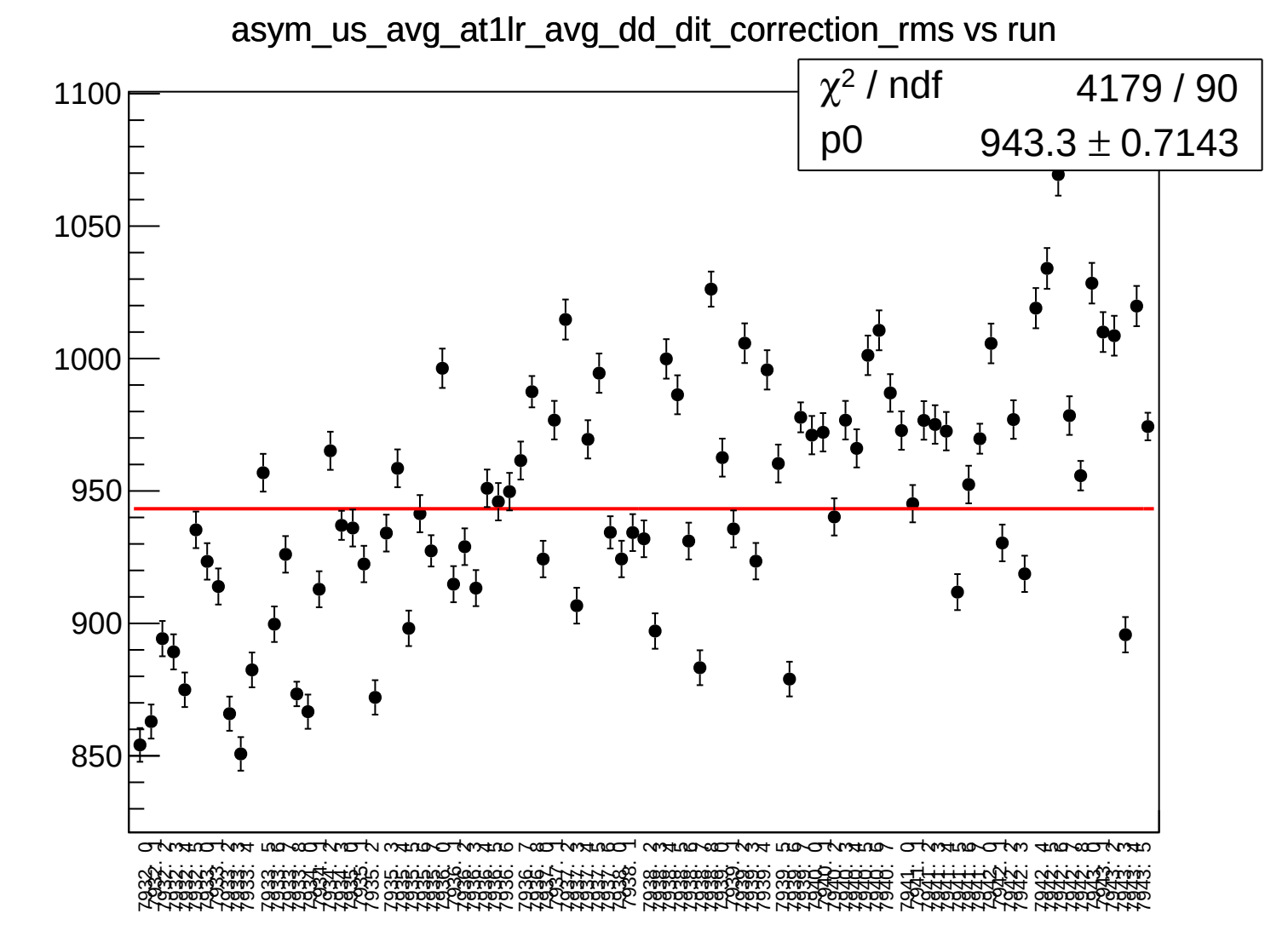

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ^2 / ndf 90.86 / 90
p0 −680.6 ± 1866
pull
Entries 91
Mean −1088
Std Dev 0

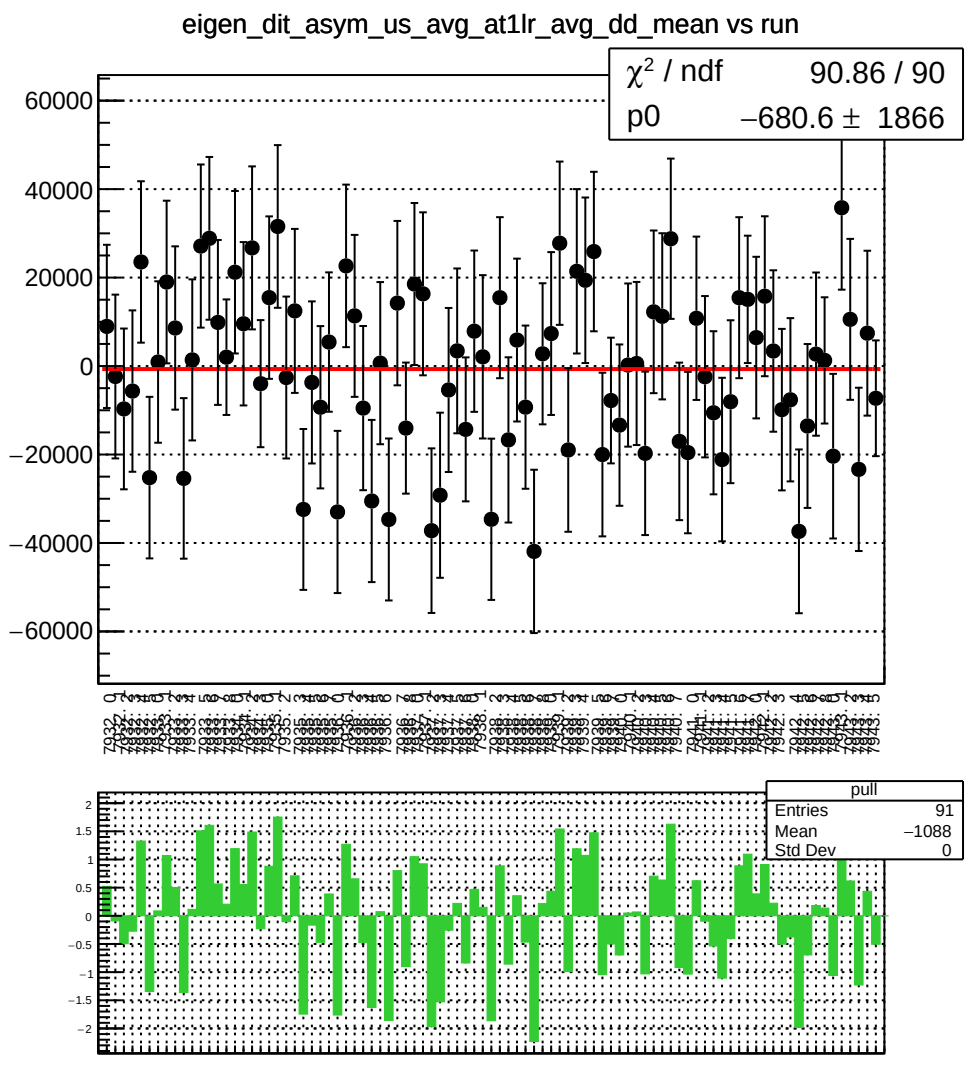

pull1D
Entries 91
Mean 0.00229
Std Dev 0.9993

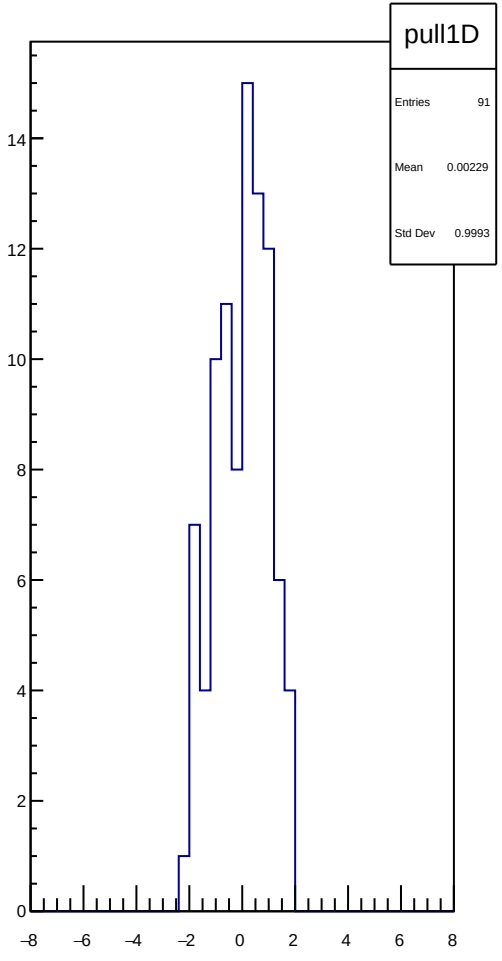

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 109.5 / 90
p0 1745 ± 1.32
1800
1780
1760
1740
1720
1700

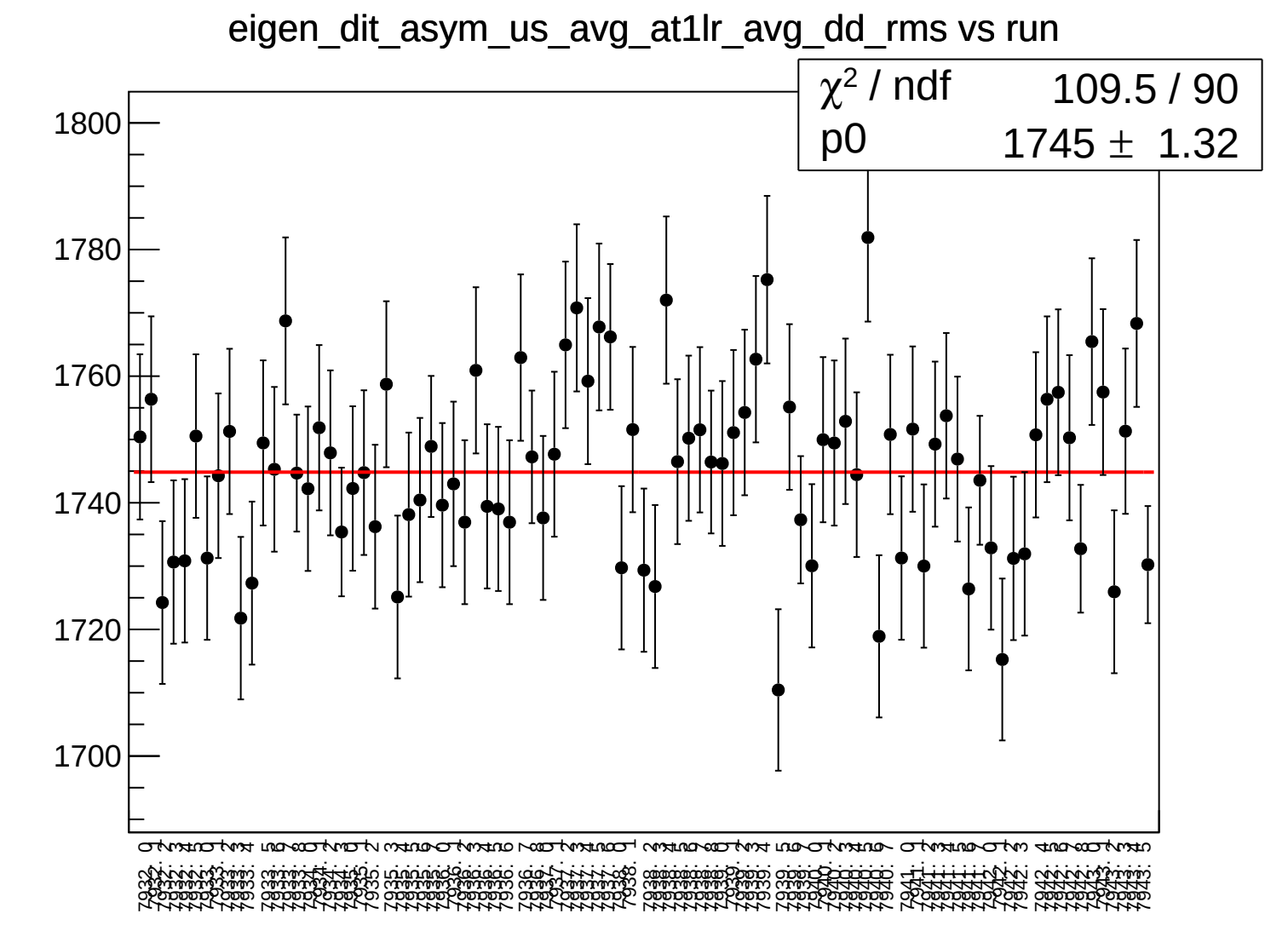

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 119.5 / 90
p0 −106 ± 1010
pull
Entries 91
Mean −99.8
Std Dev 0

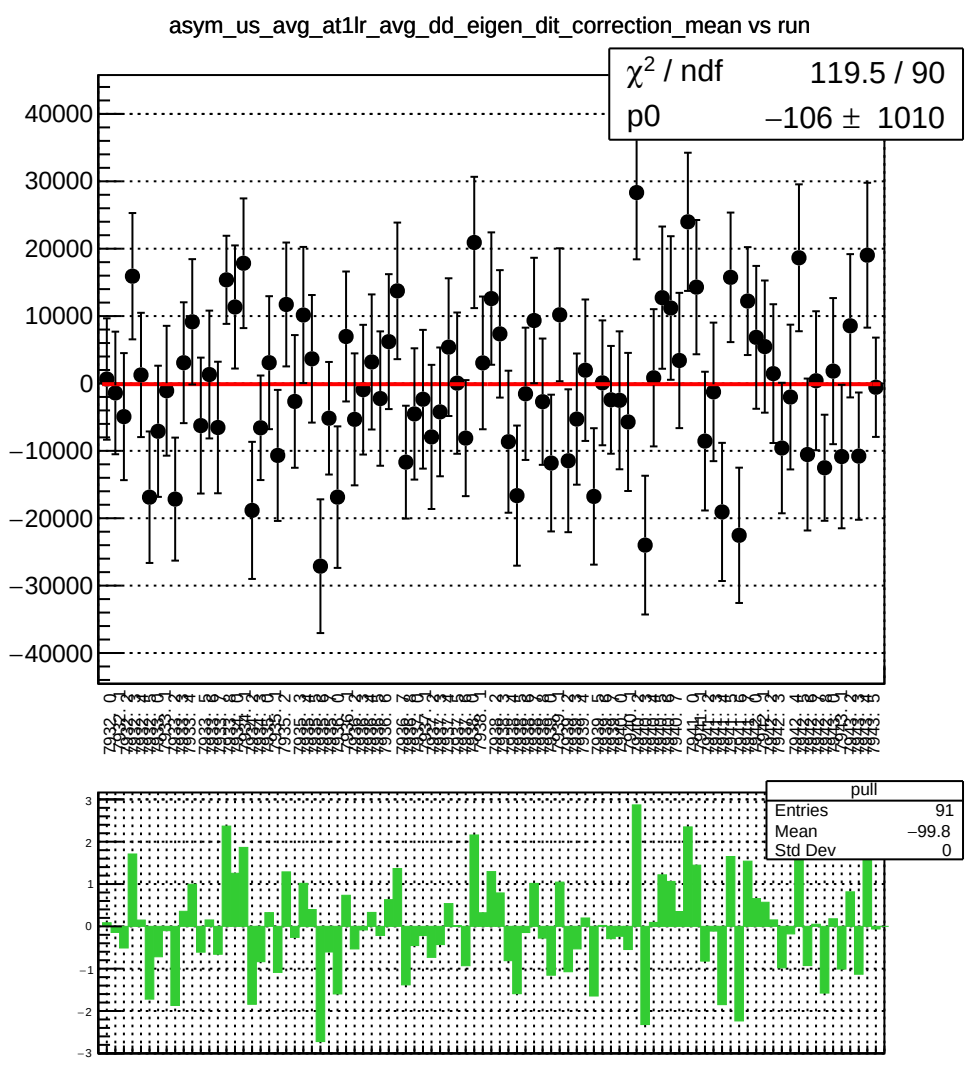

pull1D
Entries 91
Mean −0.009233
Std Dev 1.146

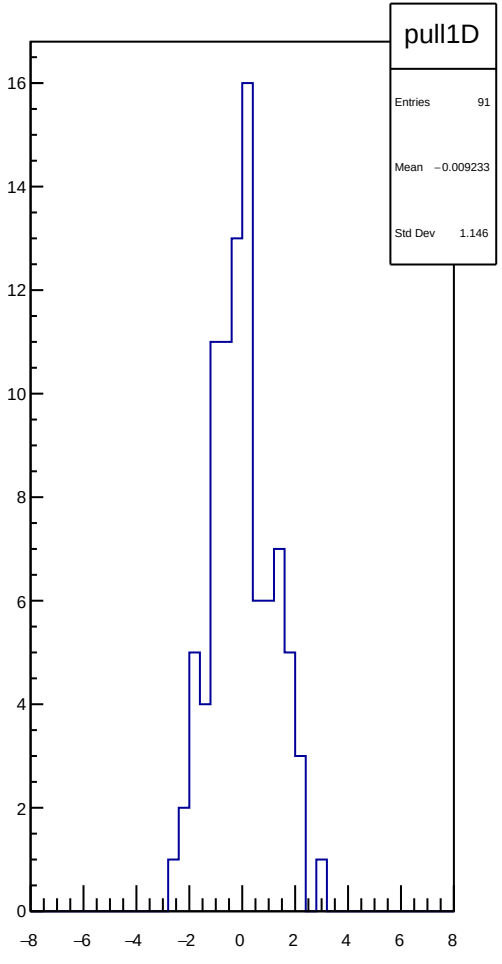

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4179 / 90
p0 943.3 ± 0.7143
1100
1050
1000
950
900
850

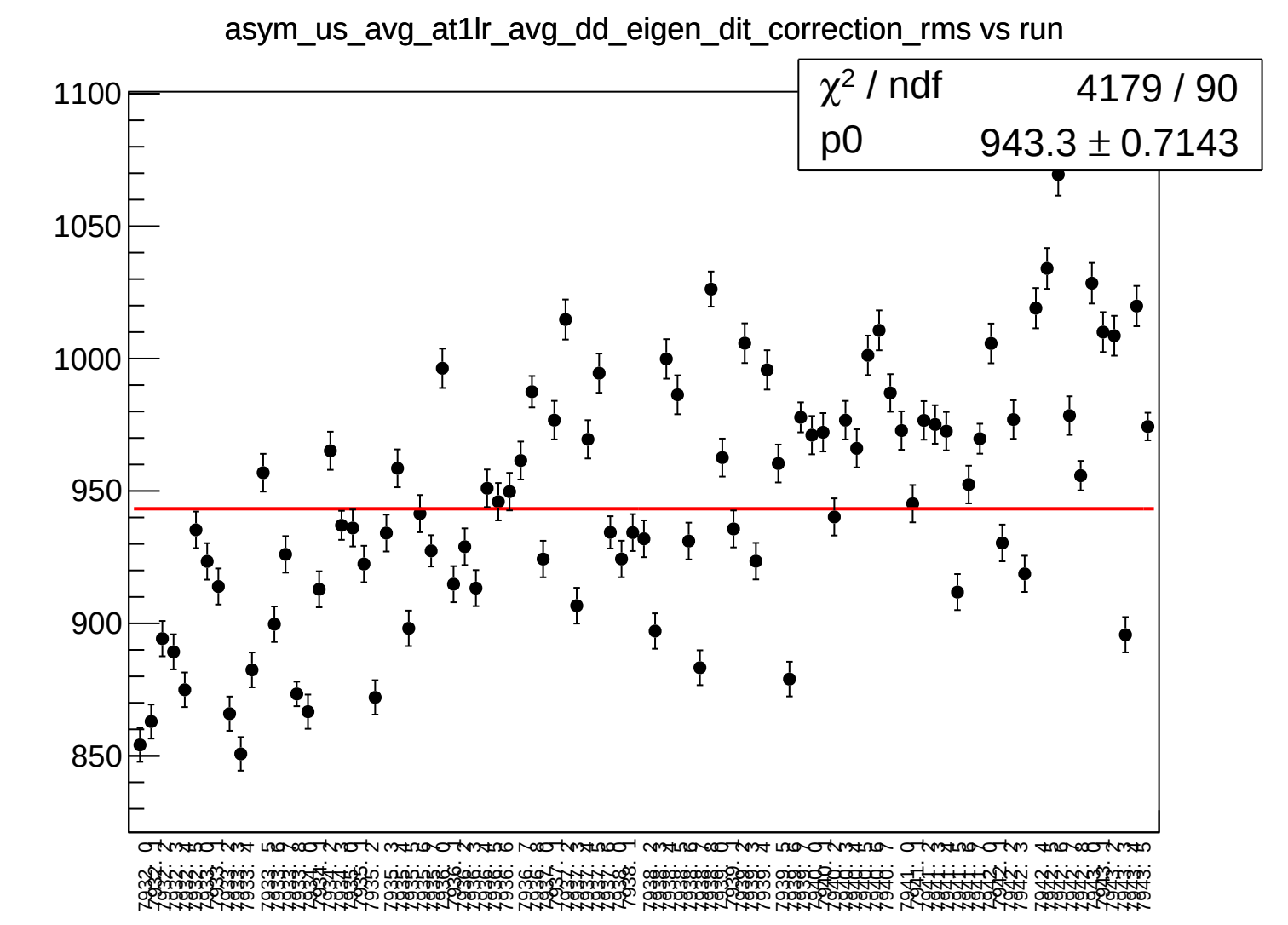

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.86 / 90
p0 −680.6 ± 1866
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1088
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

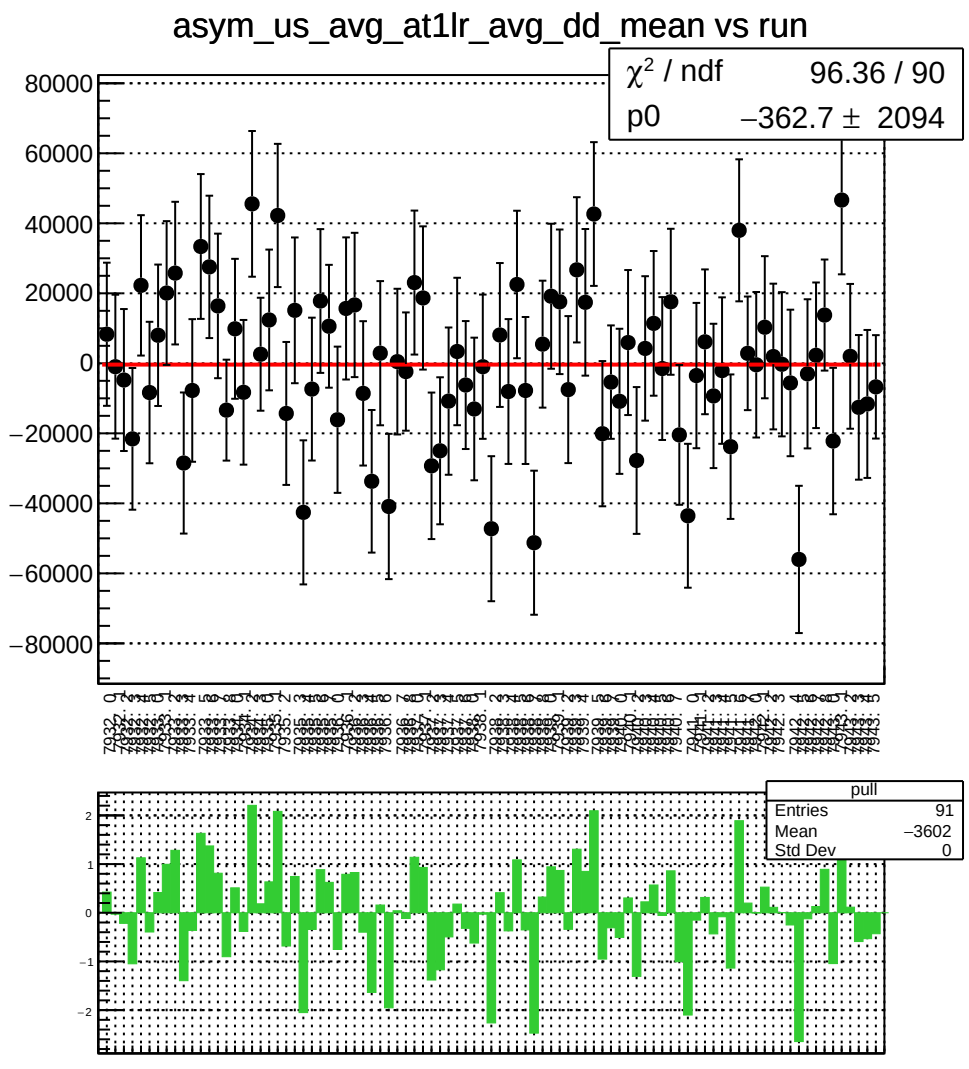

pull1D
Entries 91
Mean 0.00229
Std Dev 0.9993
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

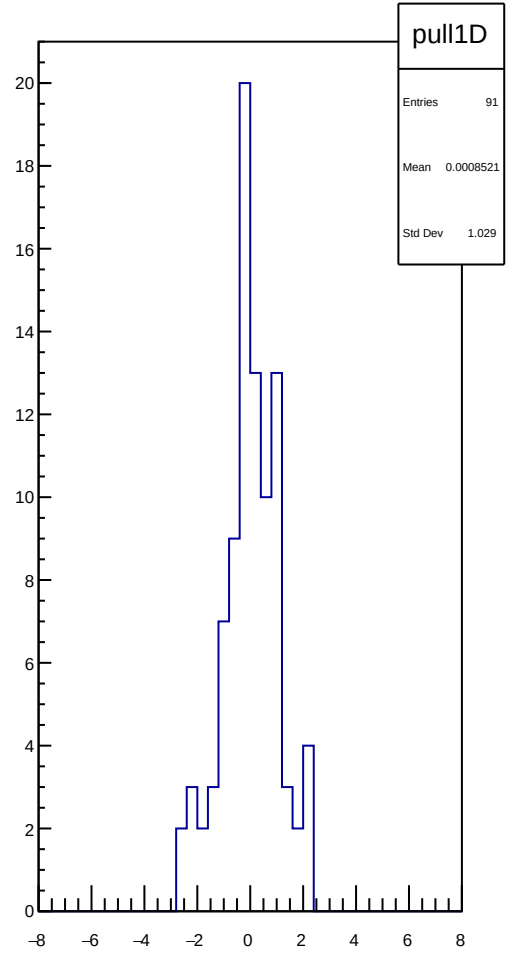

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 109.5 / 90
p0 1745 ± 1.32
1800
1780
1760
1740
1720
1700

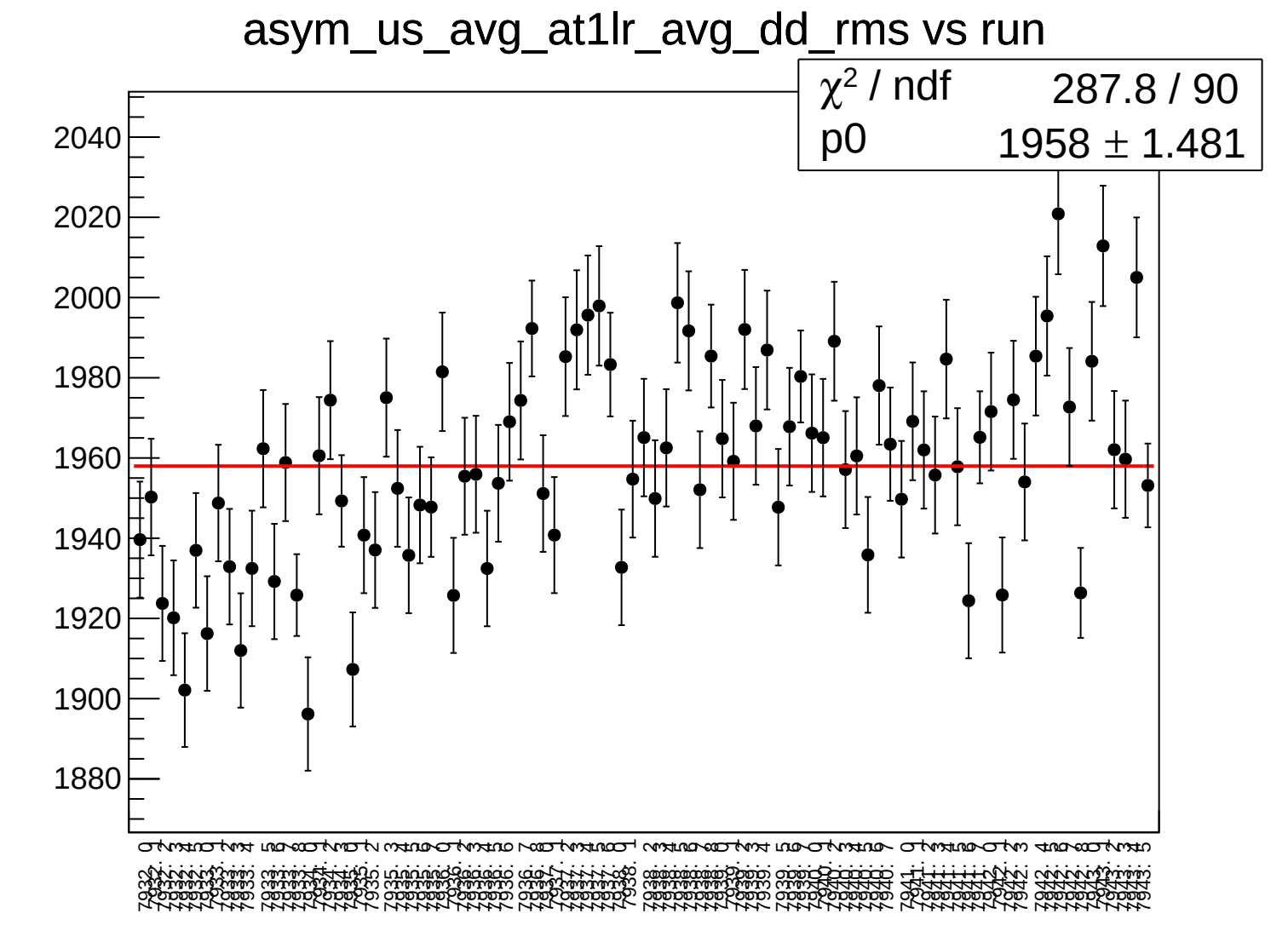

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 119.5 / 90
p0 −106 ± 1010
pull
Entries 91
Mean −99.8
Std Dev 0

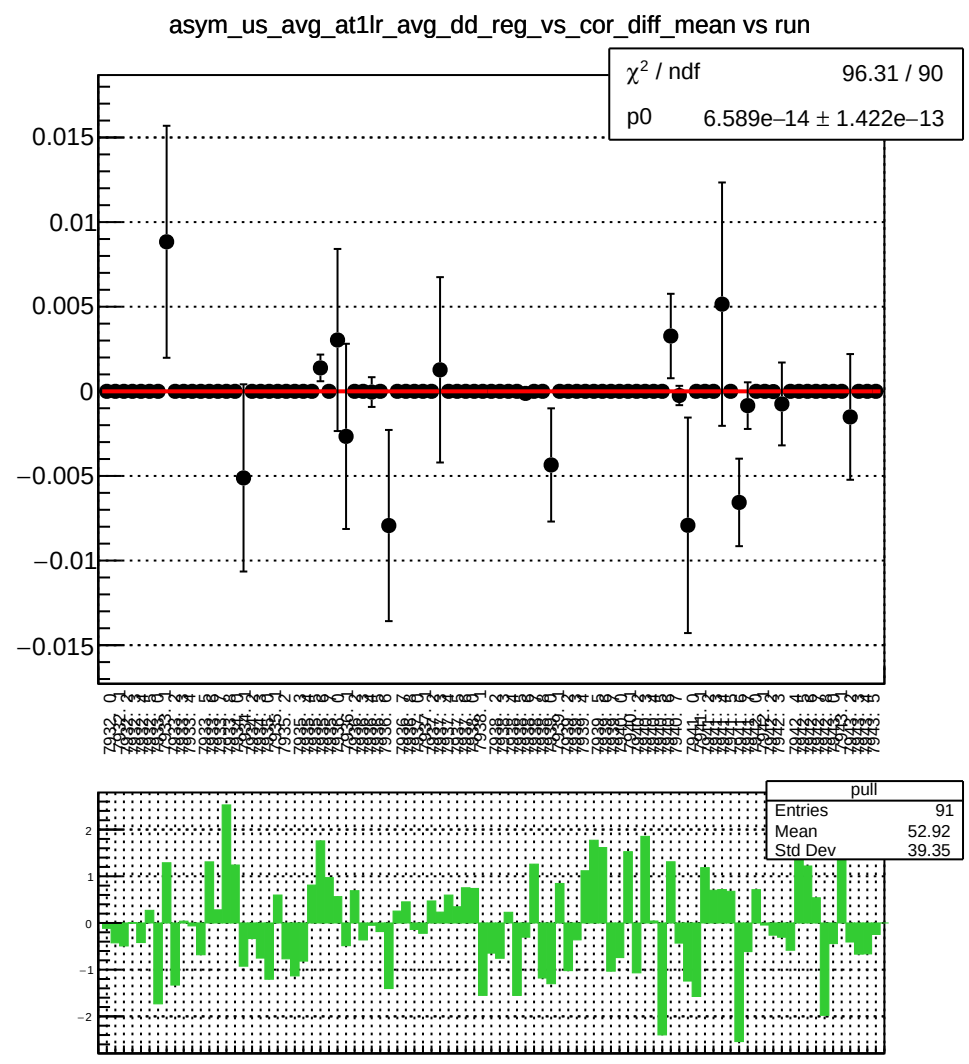

pull1D
Entries 91
Mean −0.009233
Std Dev 1.146

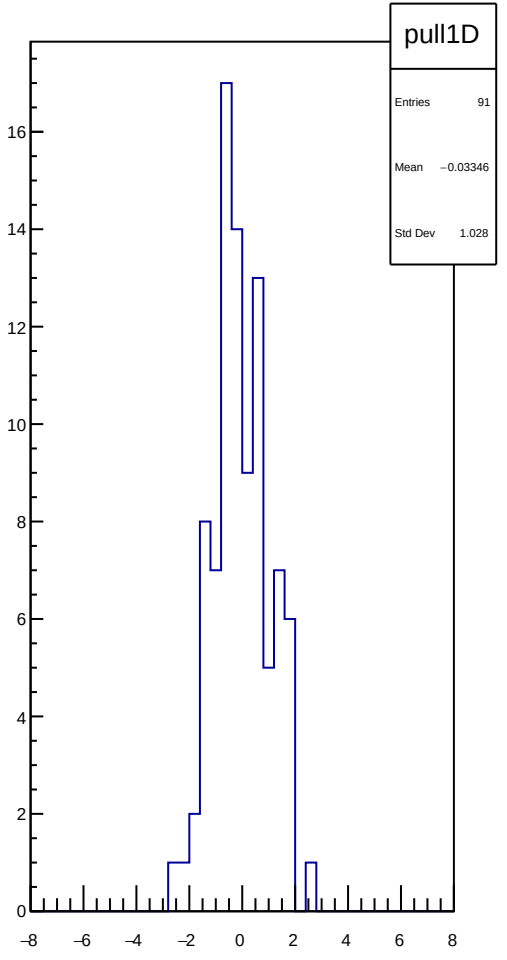

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4179 / 90
p0 943.3 ± 0.7143
1100
1050
1000
950
900
850

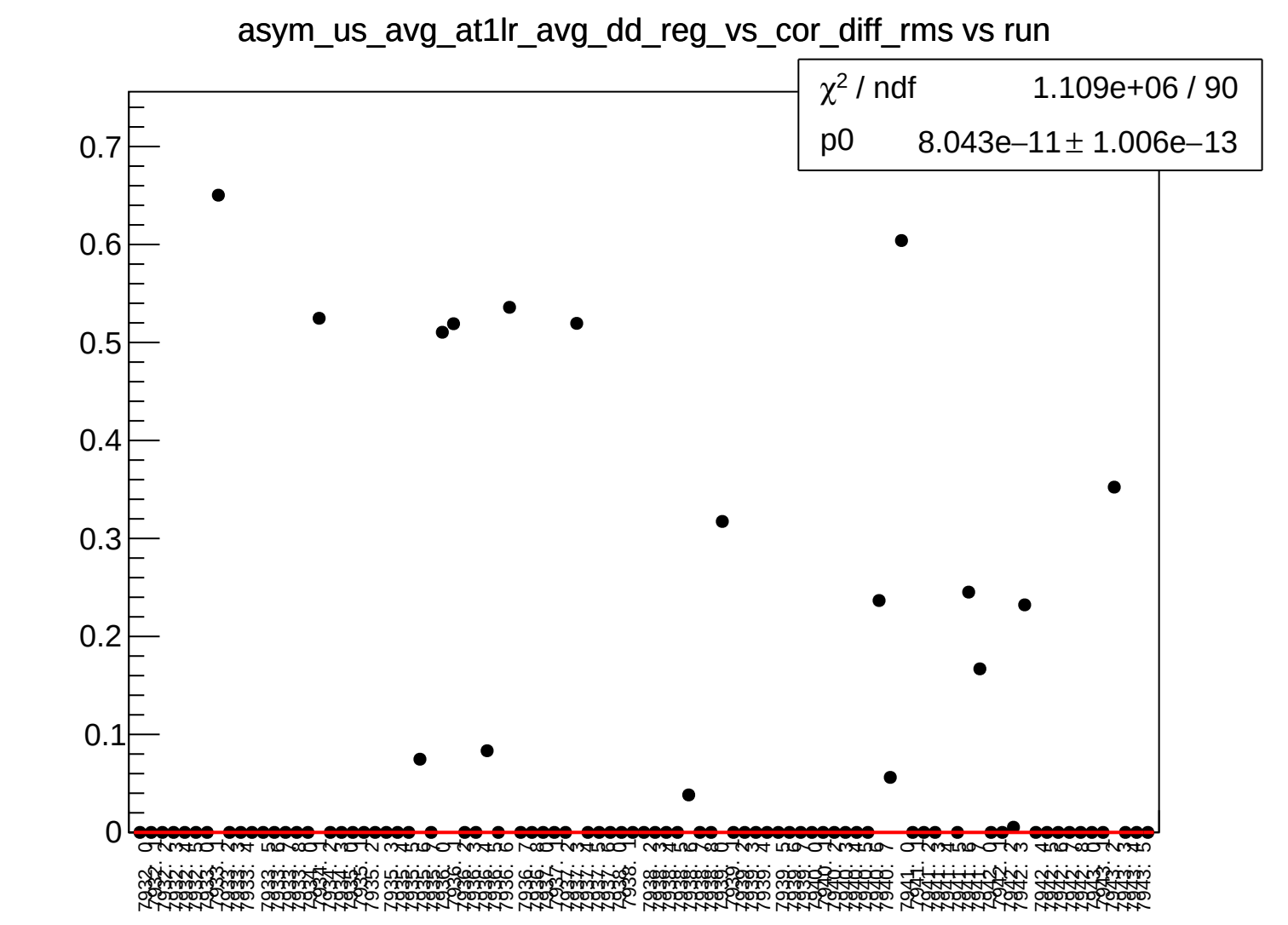

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 96.36 / 90
p0 −362.7 ± 2094
pull
Entries 91
Mean −3602
Std Dev 0

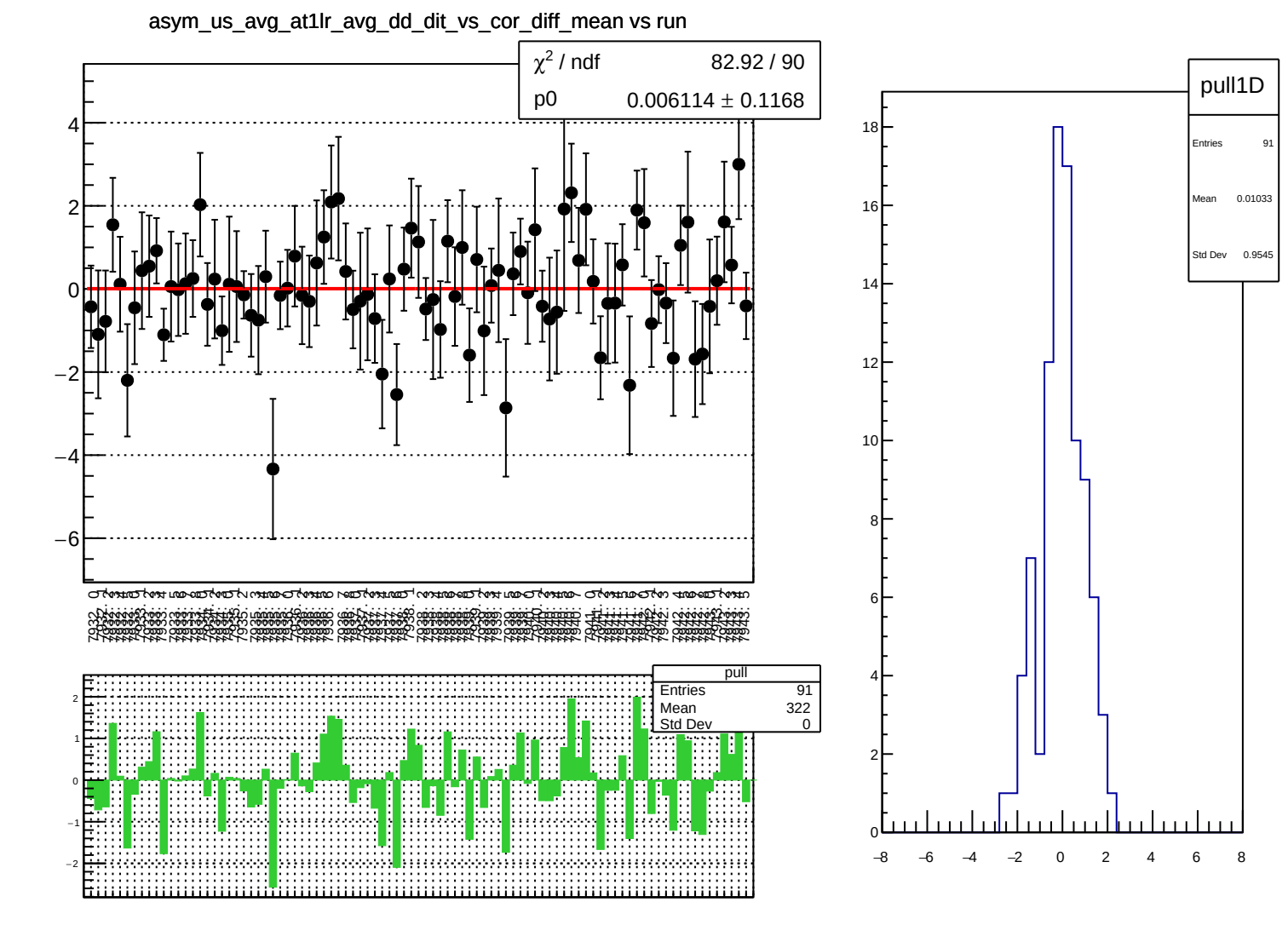

pull1D
Entries 91
Mean 0.0008521
Std Dev 1.029

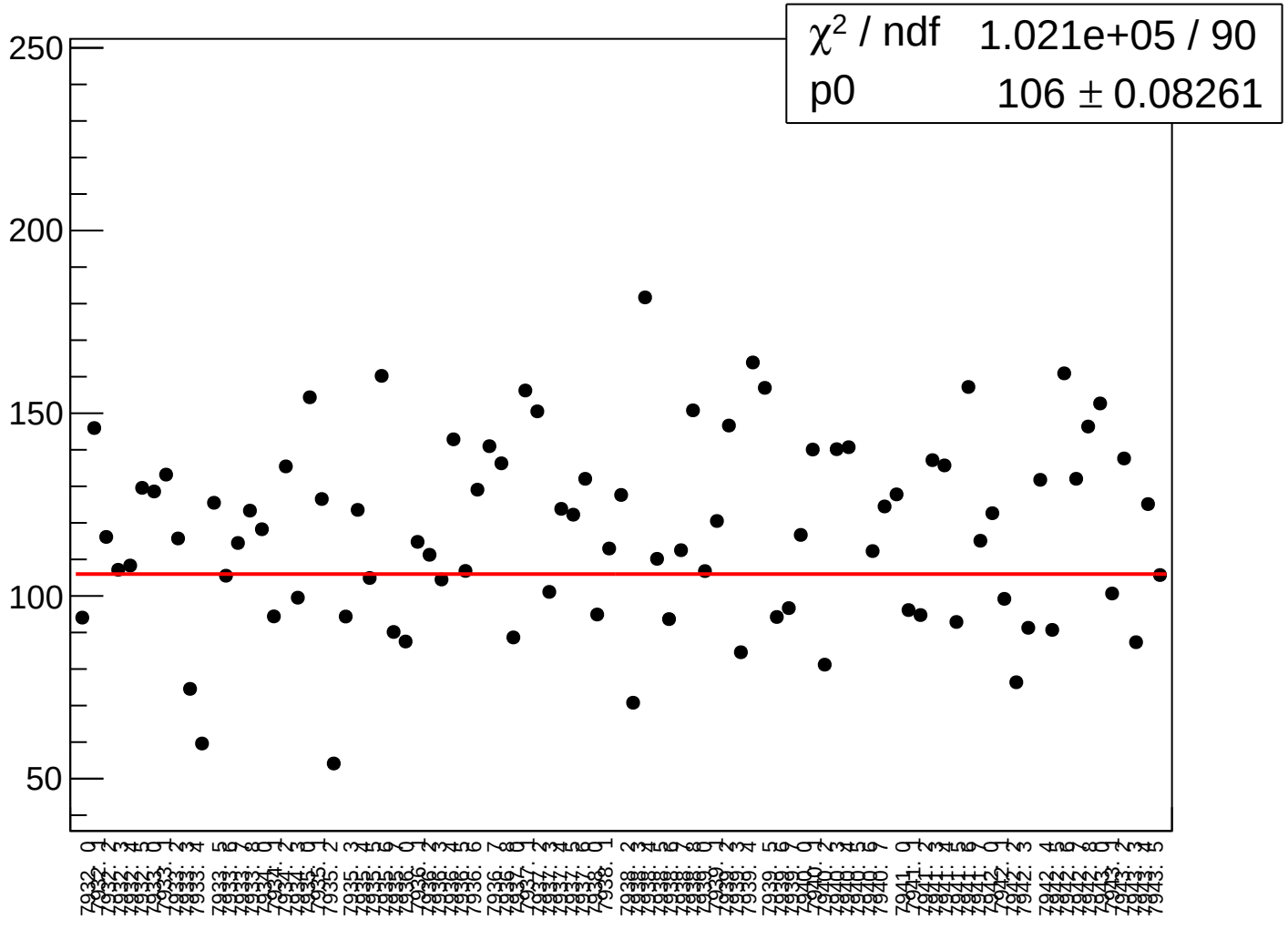

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 287.8 / 90
p0 1958 ± 1.481
2040
2020
2000
1980
1960
1940
1920
1900
1880

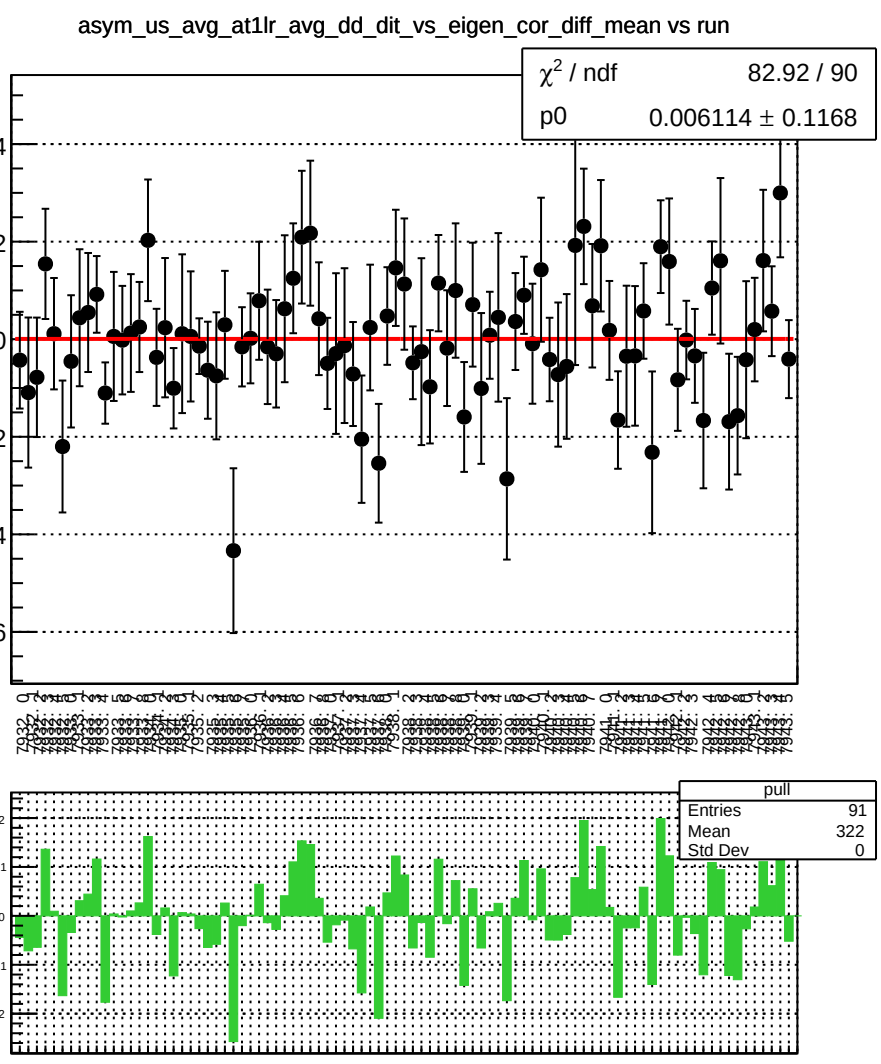

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.31 / 90
p0 6.589e−14 ± 1.422e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 52.92
Std Dev 39.35
2
1
0
−1
−2

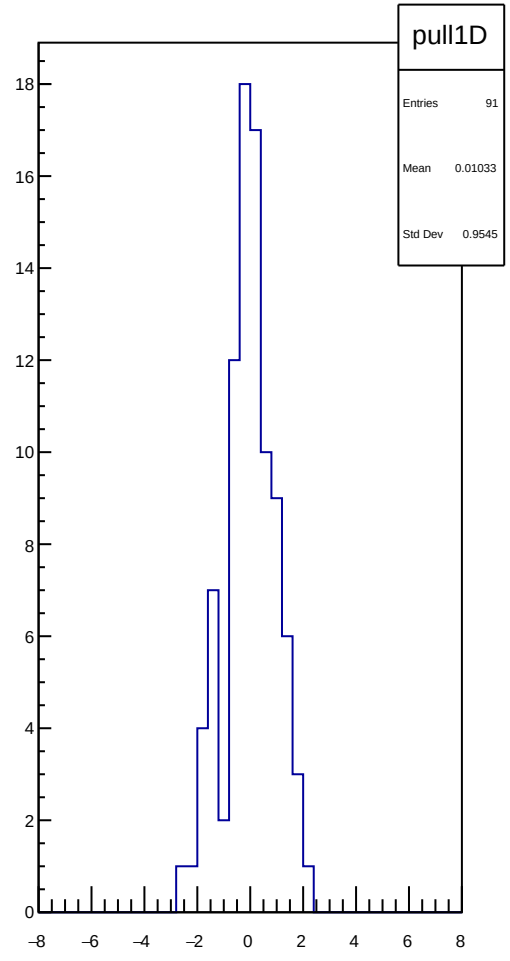

pull1D
Entries 91
Mean −0.03346
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

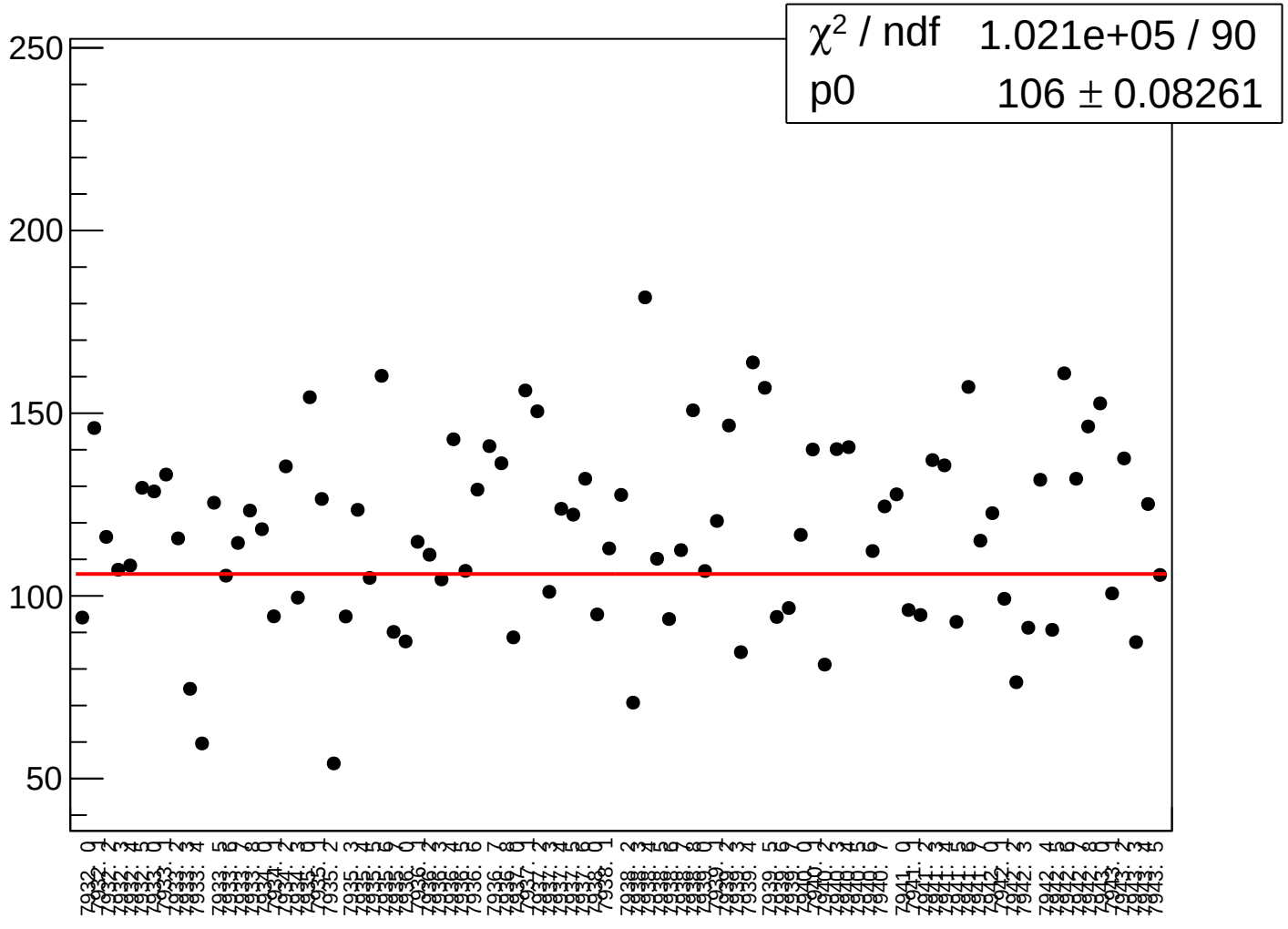

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 90
p0 8.043e−11 ± 1.006e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

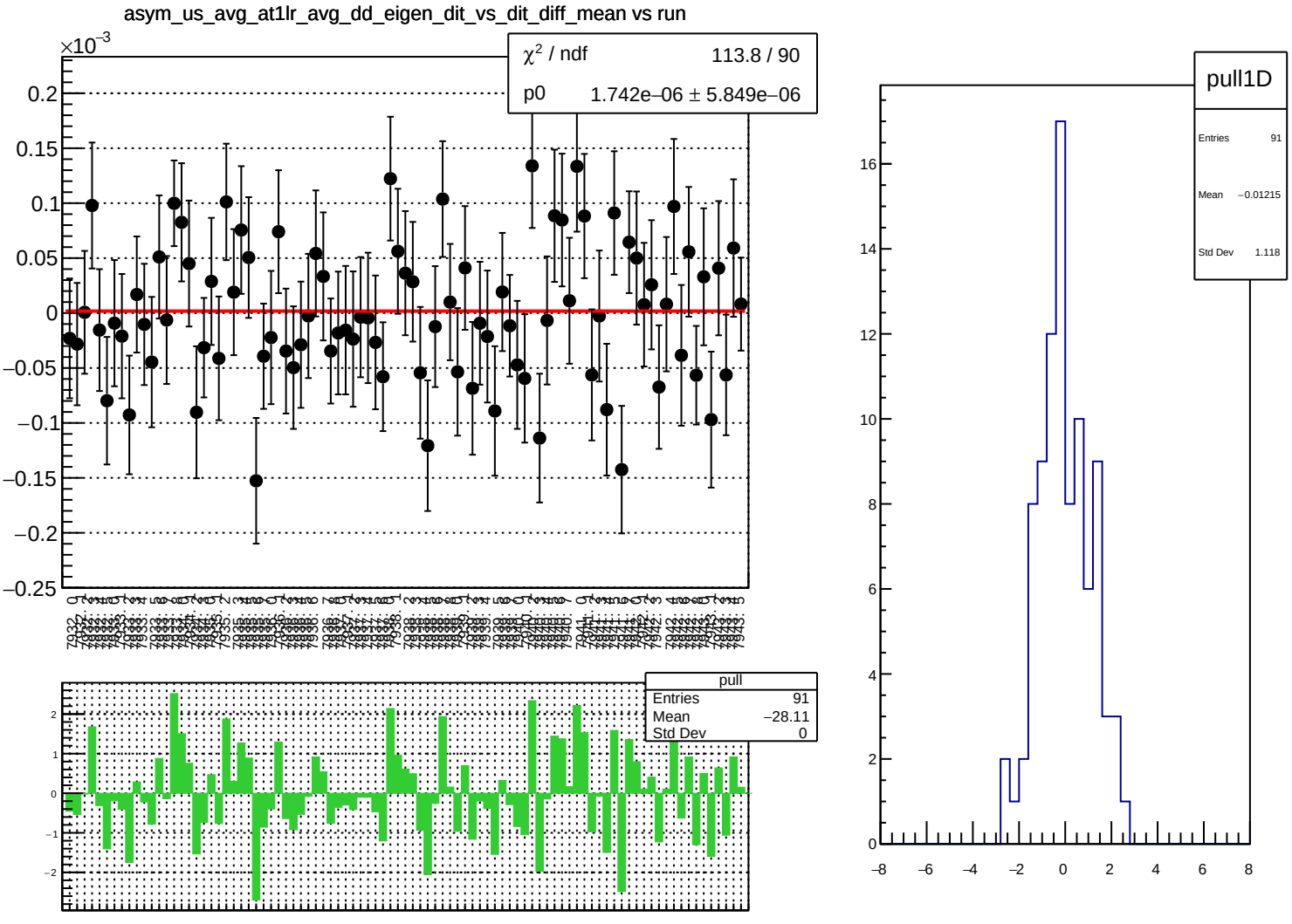

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.006114 ± 0.1168
pull
Entries 91
Mean 322
Std Dev 0
pull1D
Entries 91
Mean 0.01033
Std Dev 0.9545

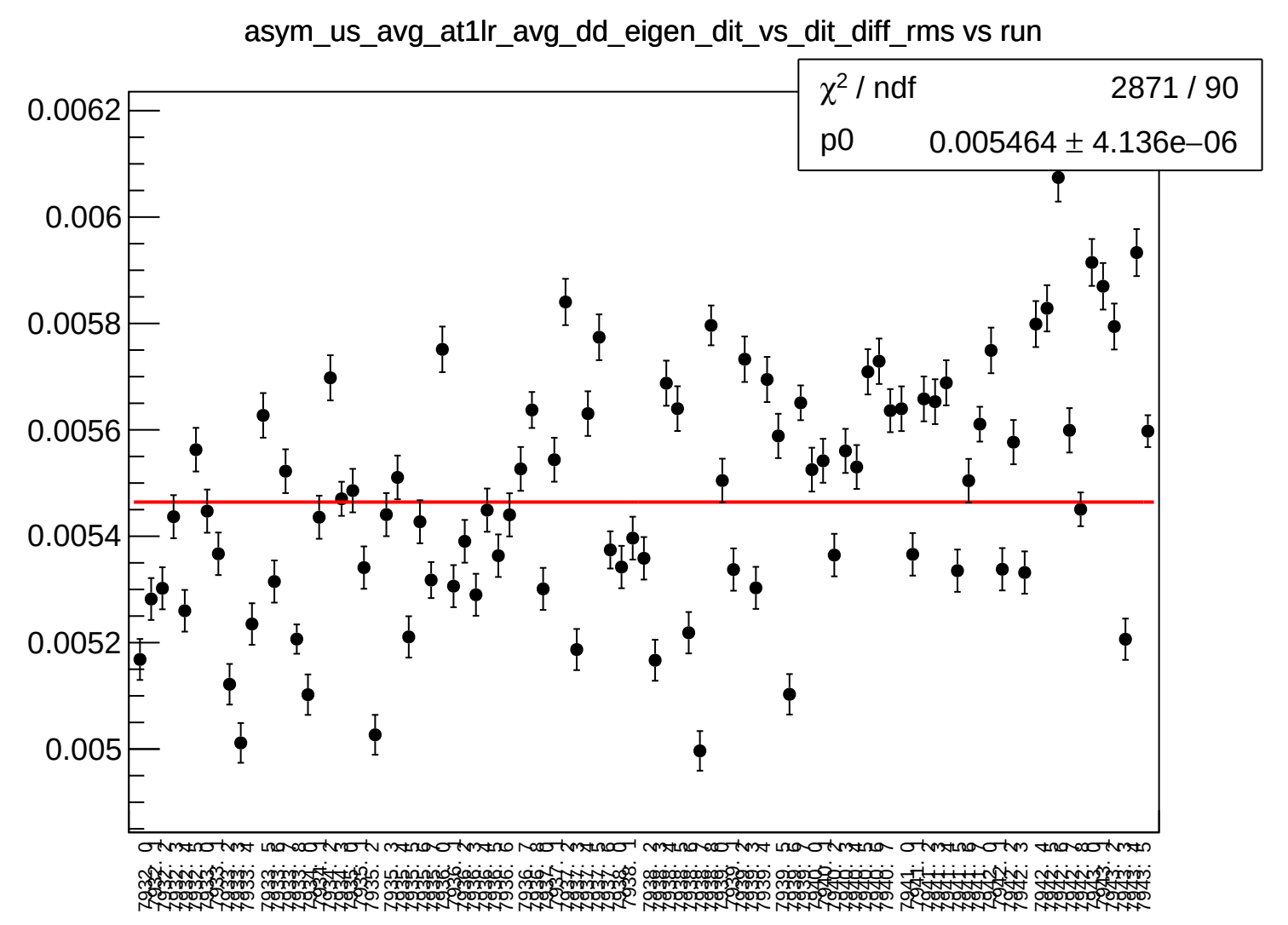

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.021e+05 / 90
p0 106 ± 0.08261
250
200
150
100
50

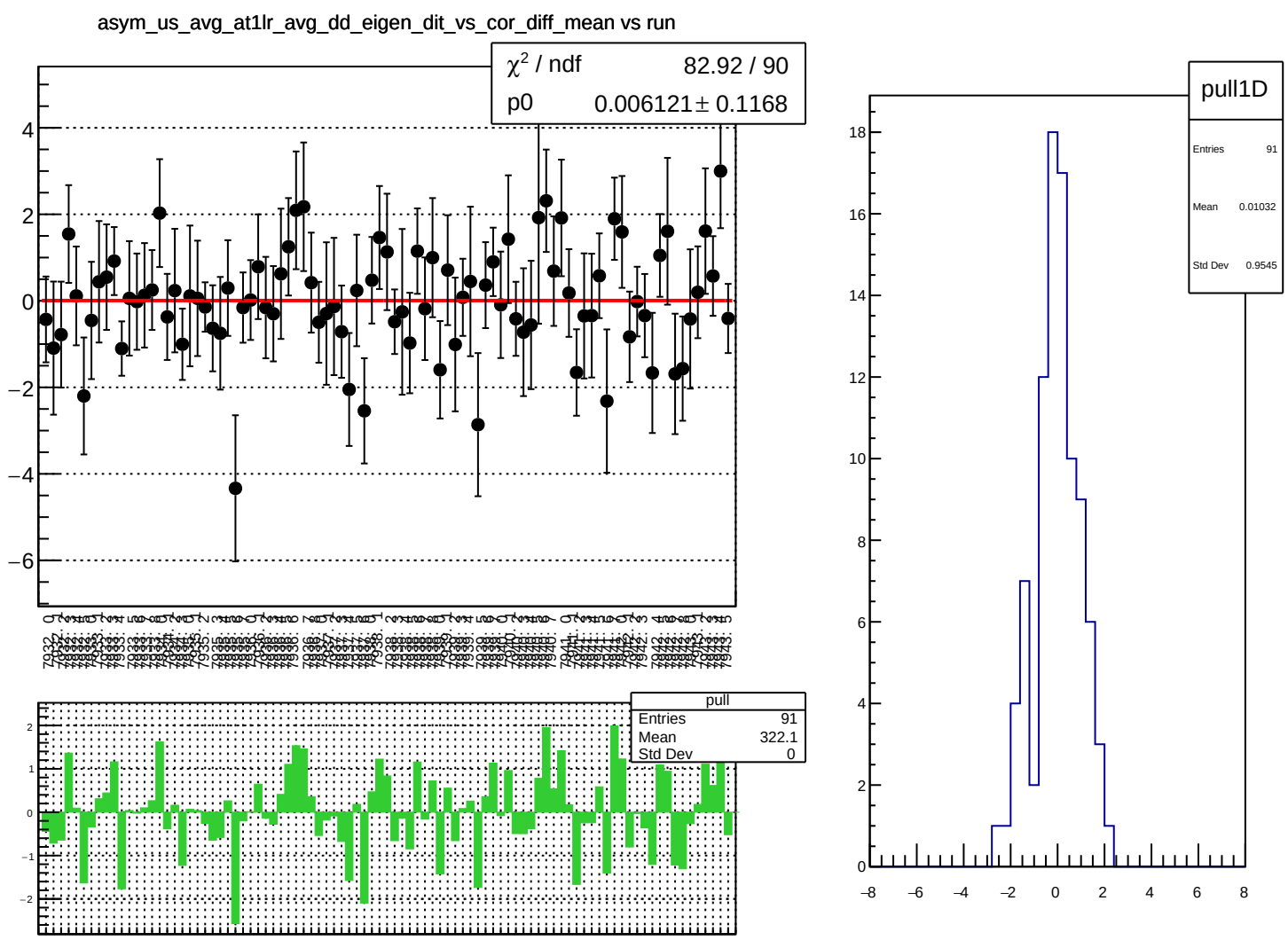

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.006114 ± 0.1168
pull
Entries 91
Mean 322
Std Dev 0

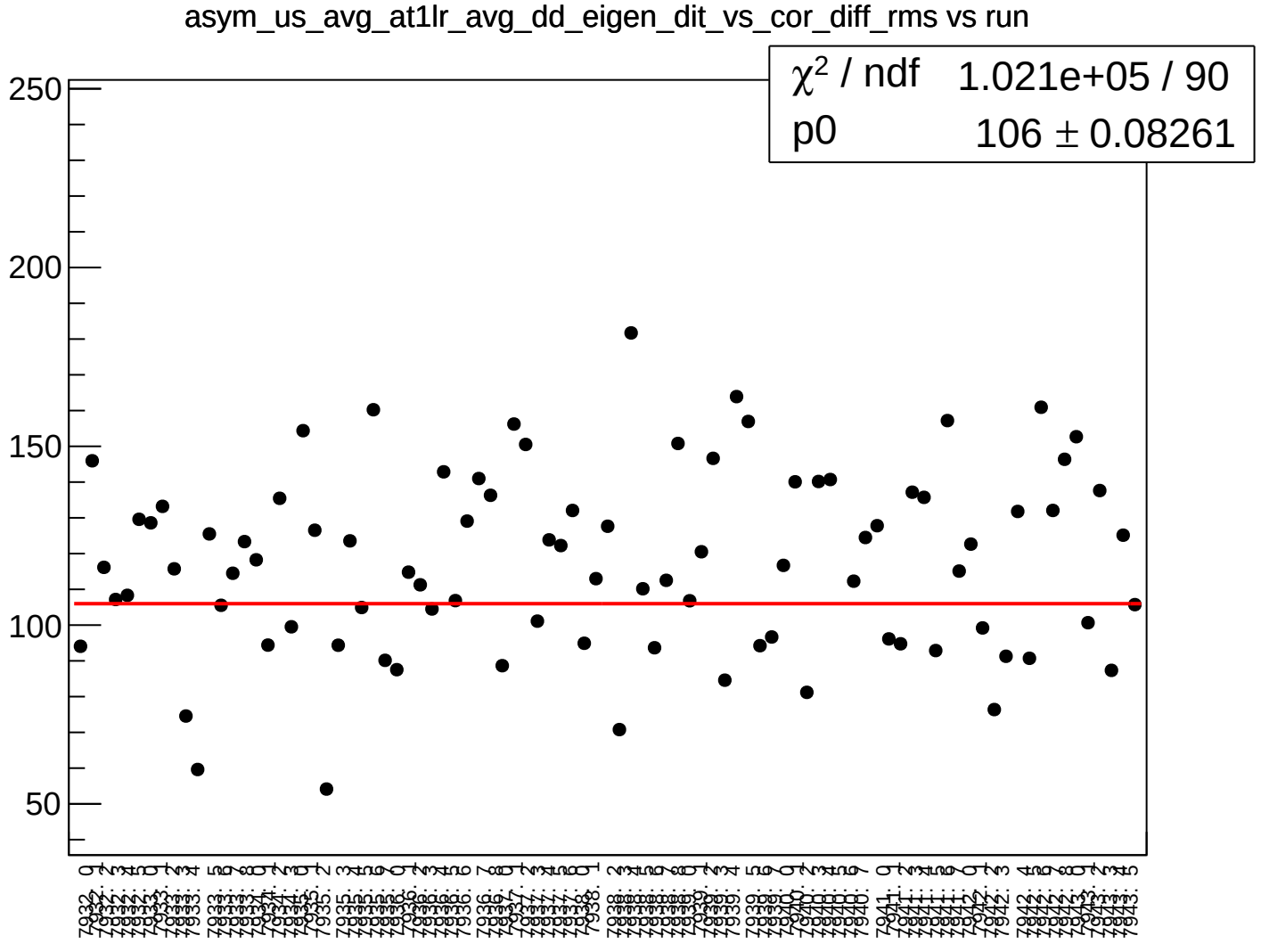

pull1D
Entries 91
Mean 0.01033
Std Dev 0.9545

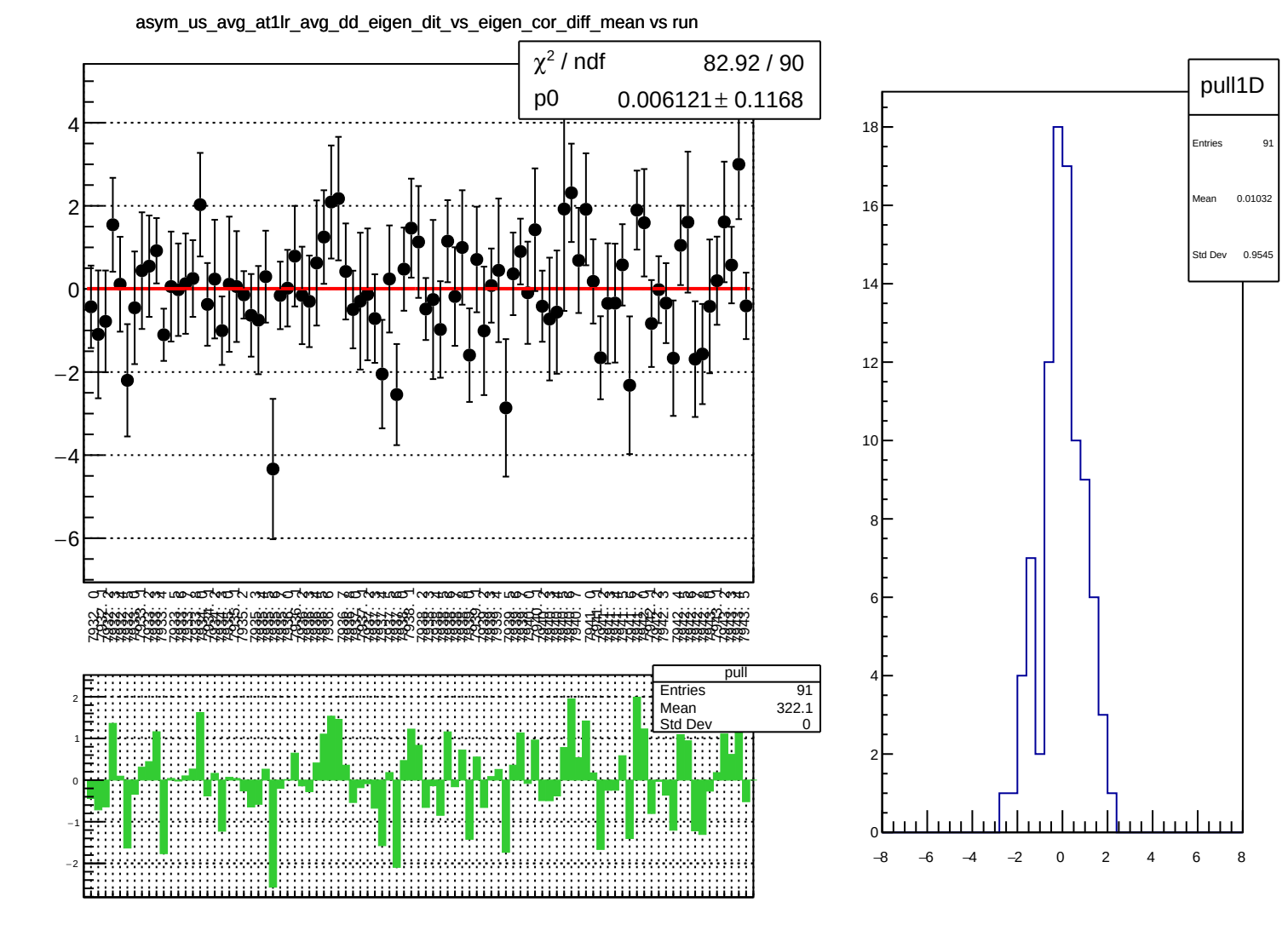

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.021e+05 / 90
p0 106 ± 0.08261
250
200
150
100
50

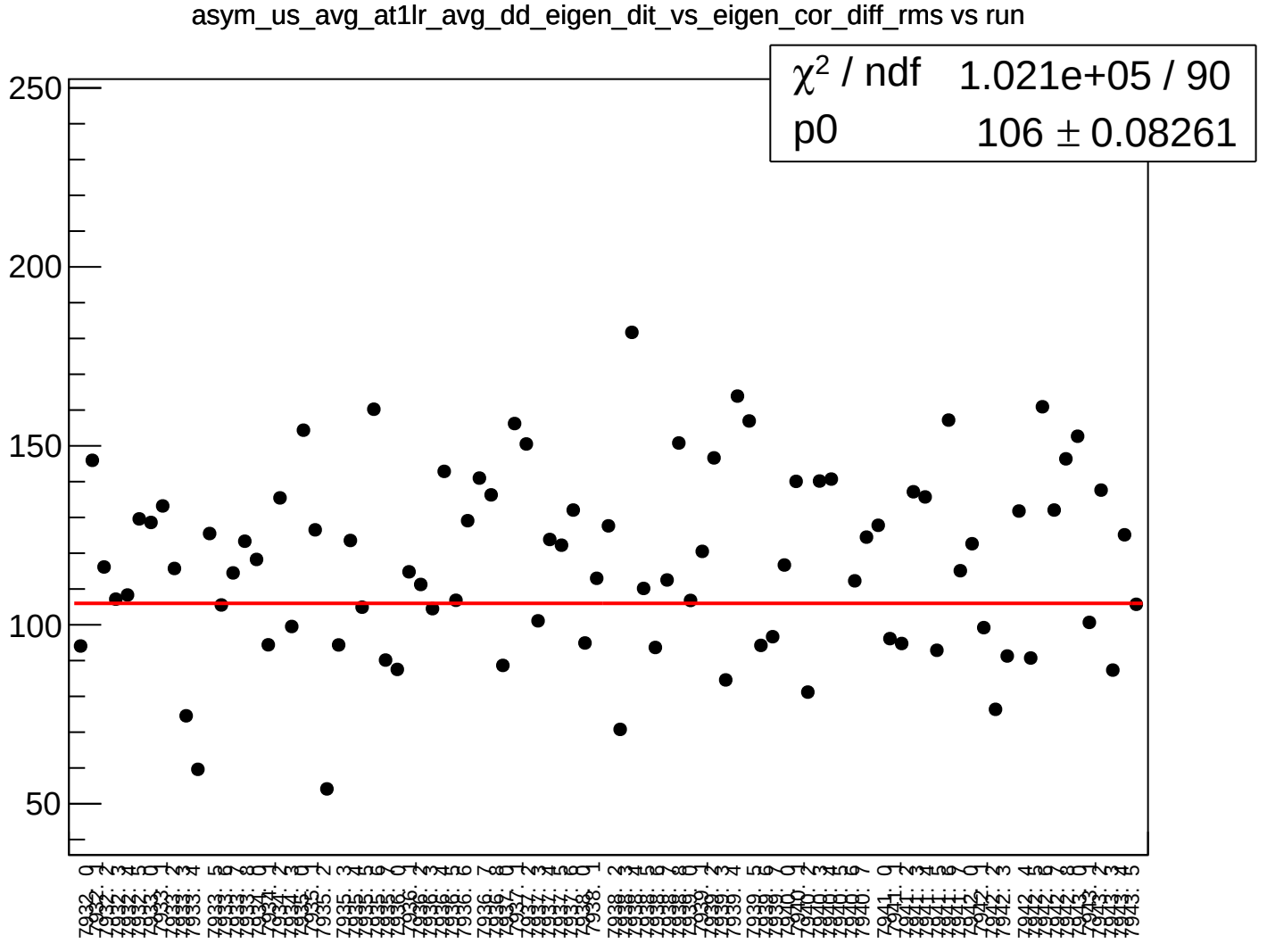

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.8 / 90
p0 1.742e−06 ± 5.849e−06
pull
Entries 91
Mean −28.11
Std Dev 0
pull1D
Entries 91
Mean −0.01215
Std Dev 1.118

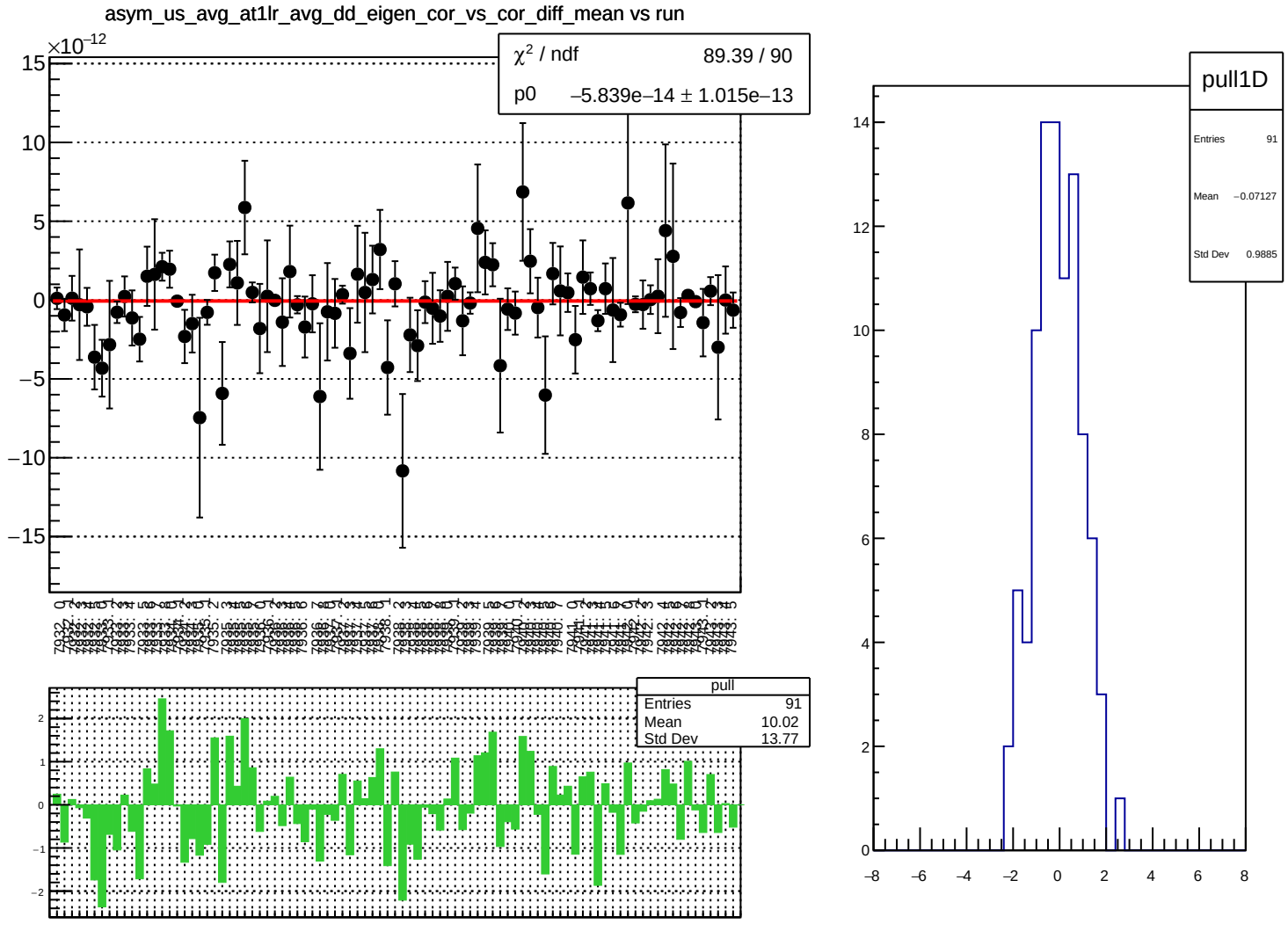

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2871 / 90
p0 0.005464 ± 4.136e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

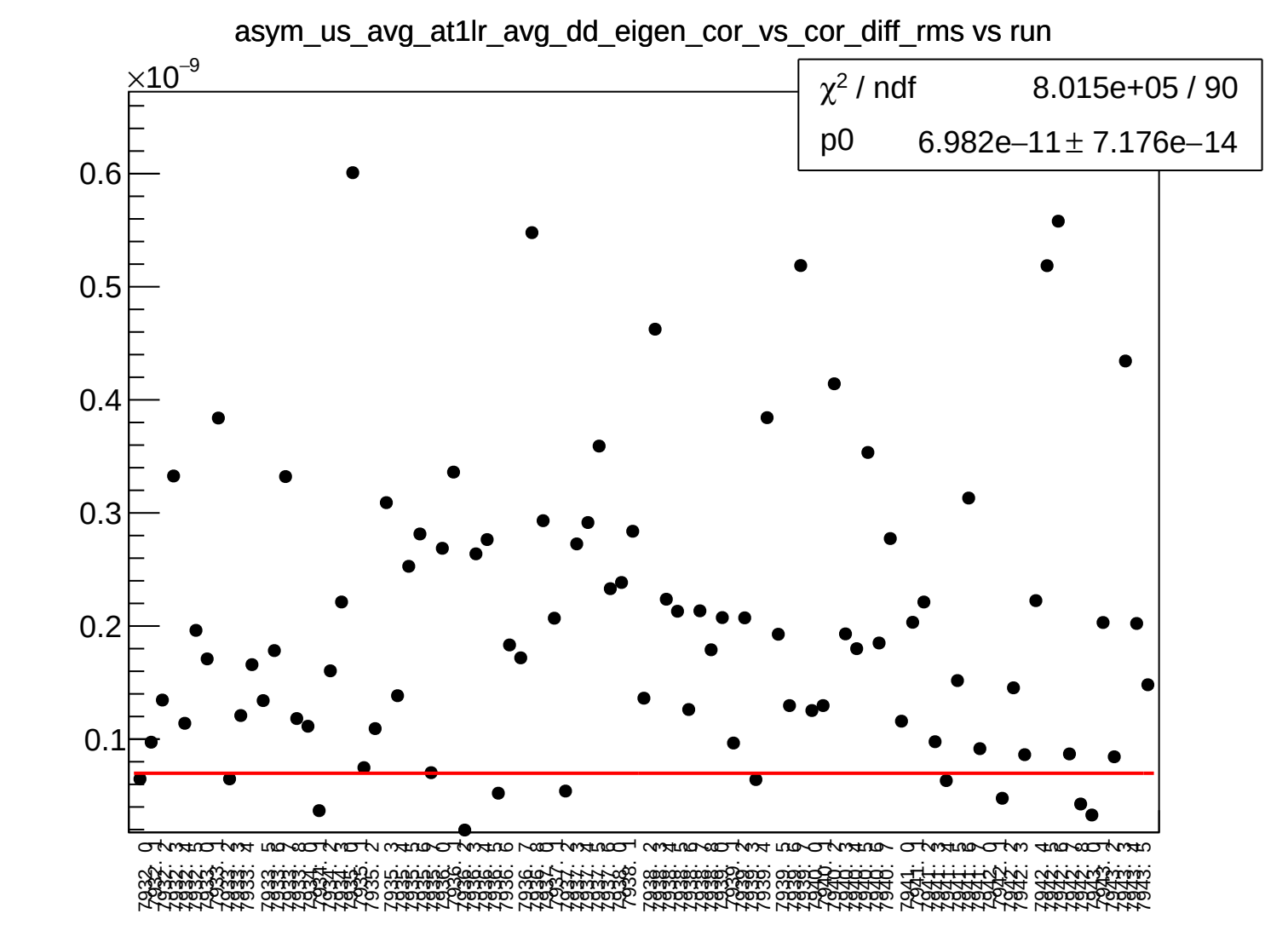

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.006121 ± 0.1168
pull
Entries 91
Mean 322.1
Std Dev 0
pull1D
Entries 91
Mean 0.01032
Std Dev 0.9545

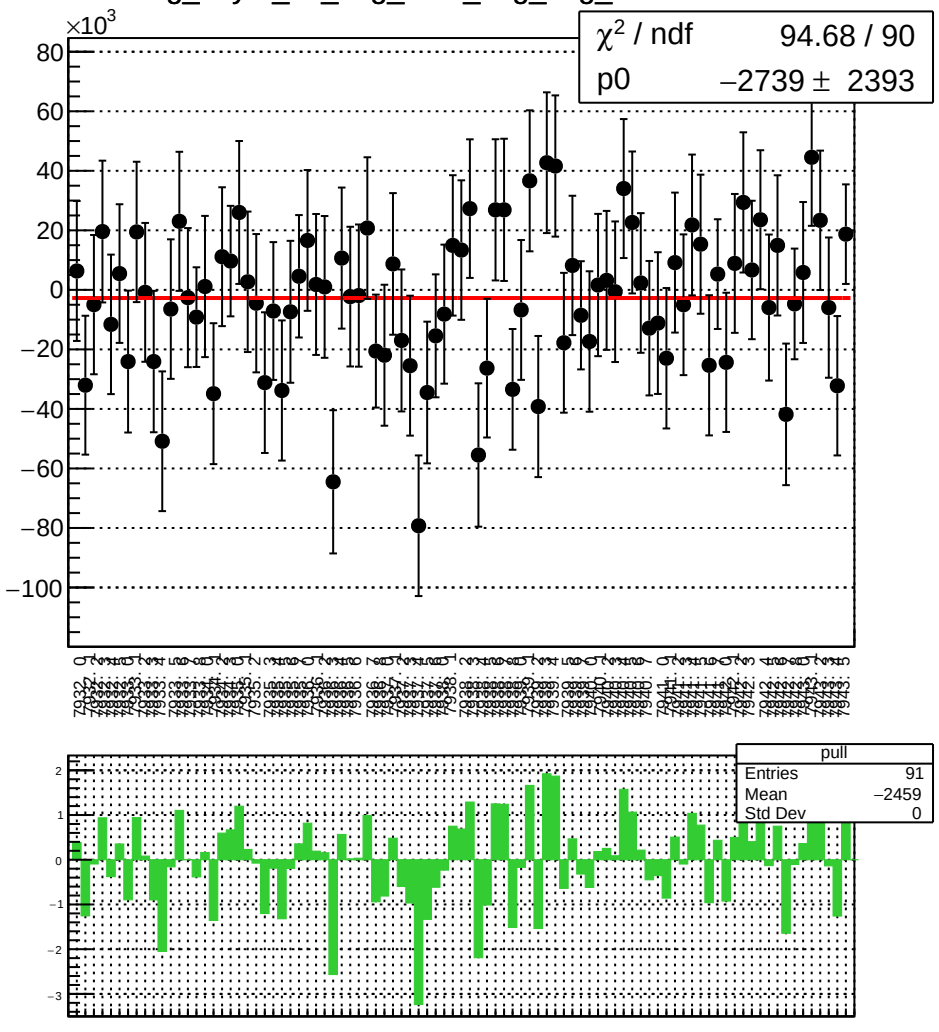

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.021e+05 / 90
p0 106 ± 0.08261
250
200
150
100
50

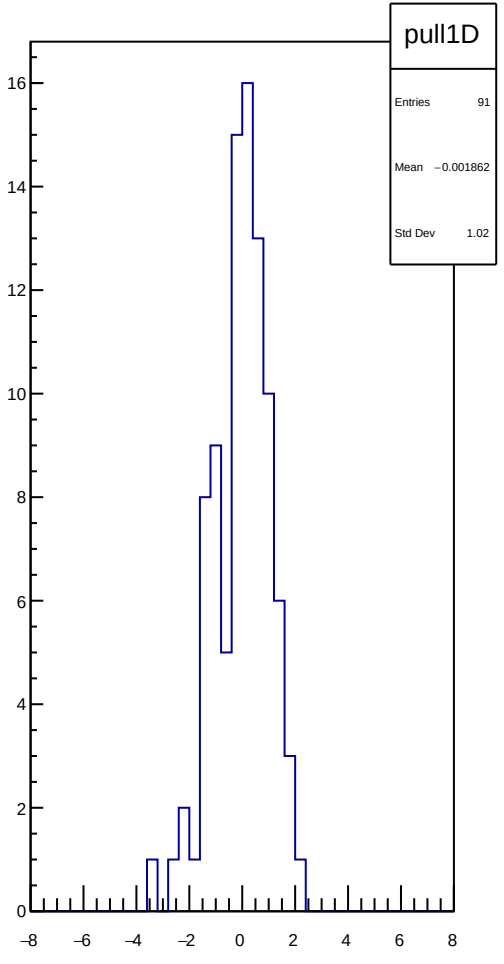

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.92 / 90
p0 0.006121 ± 0.1168
pull
Entries 91
Mean 322.1
Std Dev 0
pull1D
Entries 91
Mean 0.01032
Std Dev 0.9545

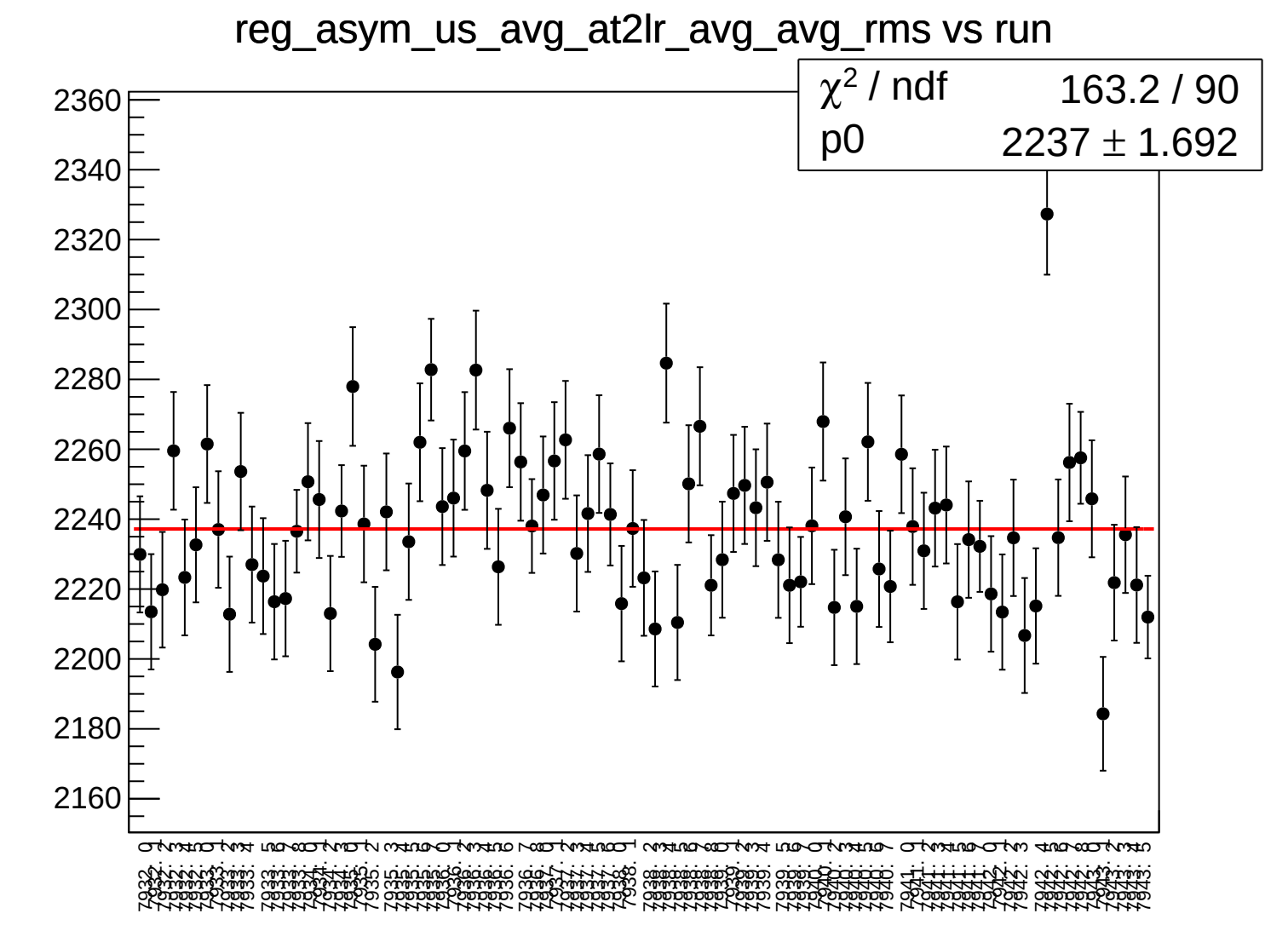

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.021e+05 / 90
p0 106 ± 0.08261
250
200
150
100
50

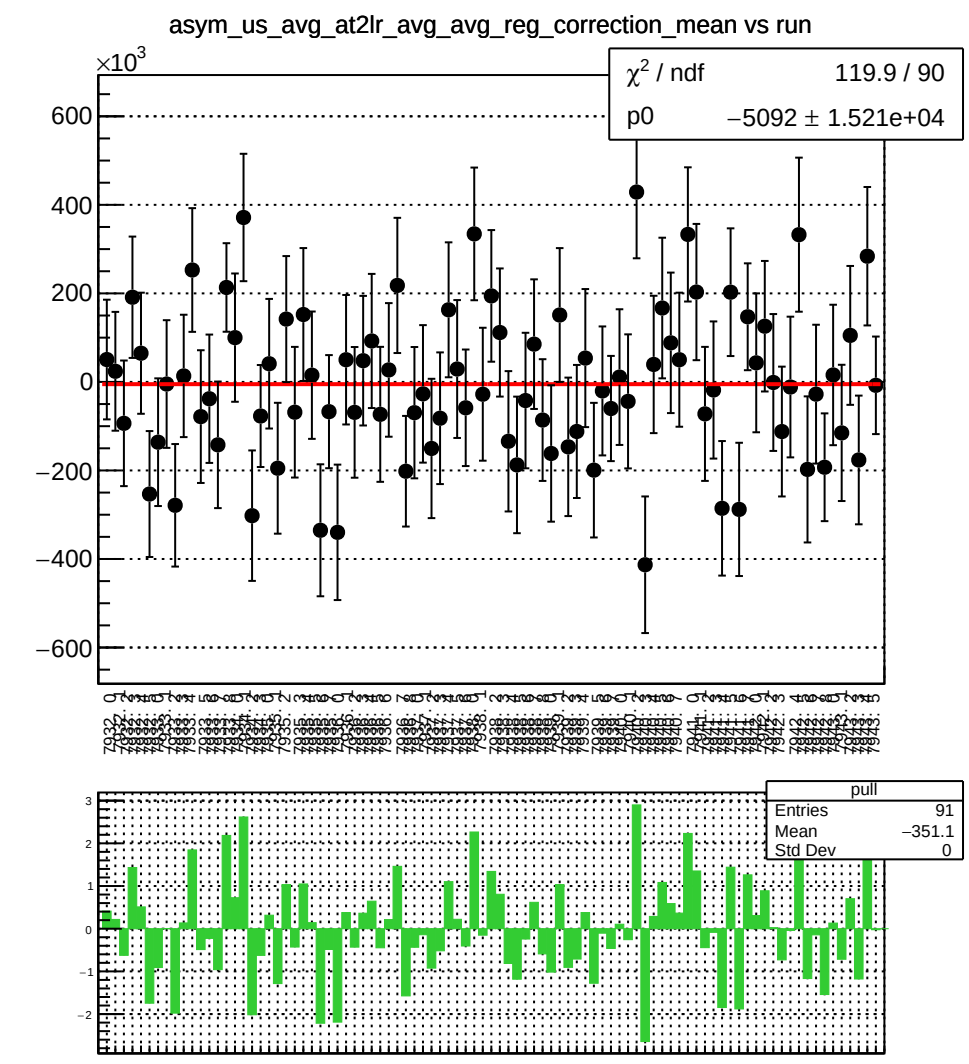

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.39 / 90
p0 −5.839e−14 ± 1.015e−13
pull
Entries 91
Mean 10.02
Std Dev 13.77
pull1D
Entries 91
Mean −0.07127
Std Dev 0.9885

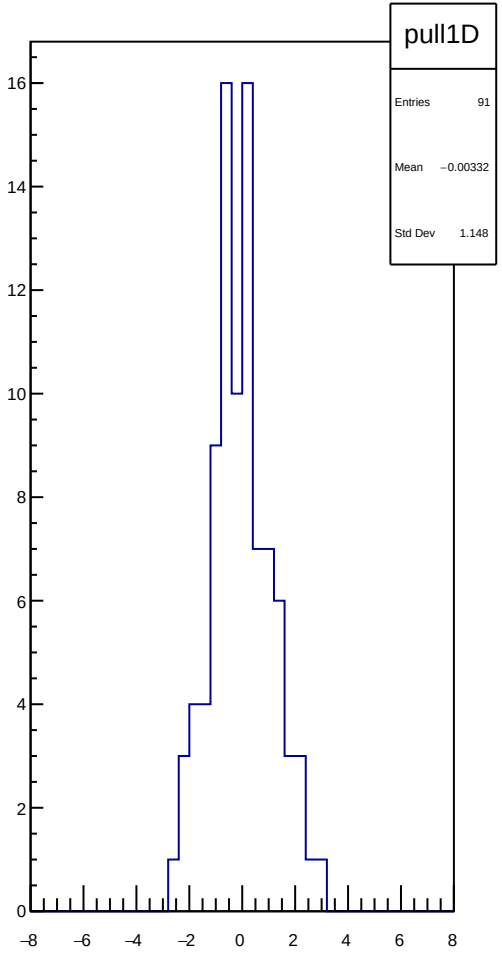

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.015e+05 / 90
p0 6.982e−11 ± 7.176e−14
0.6
0.5
0.4
0.3
0.2
0.1

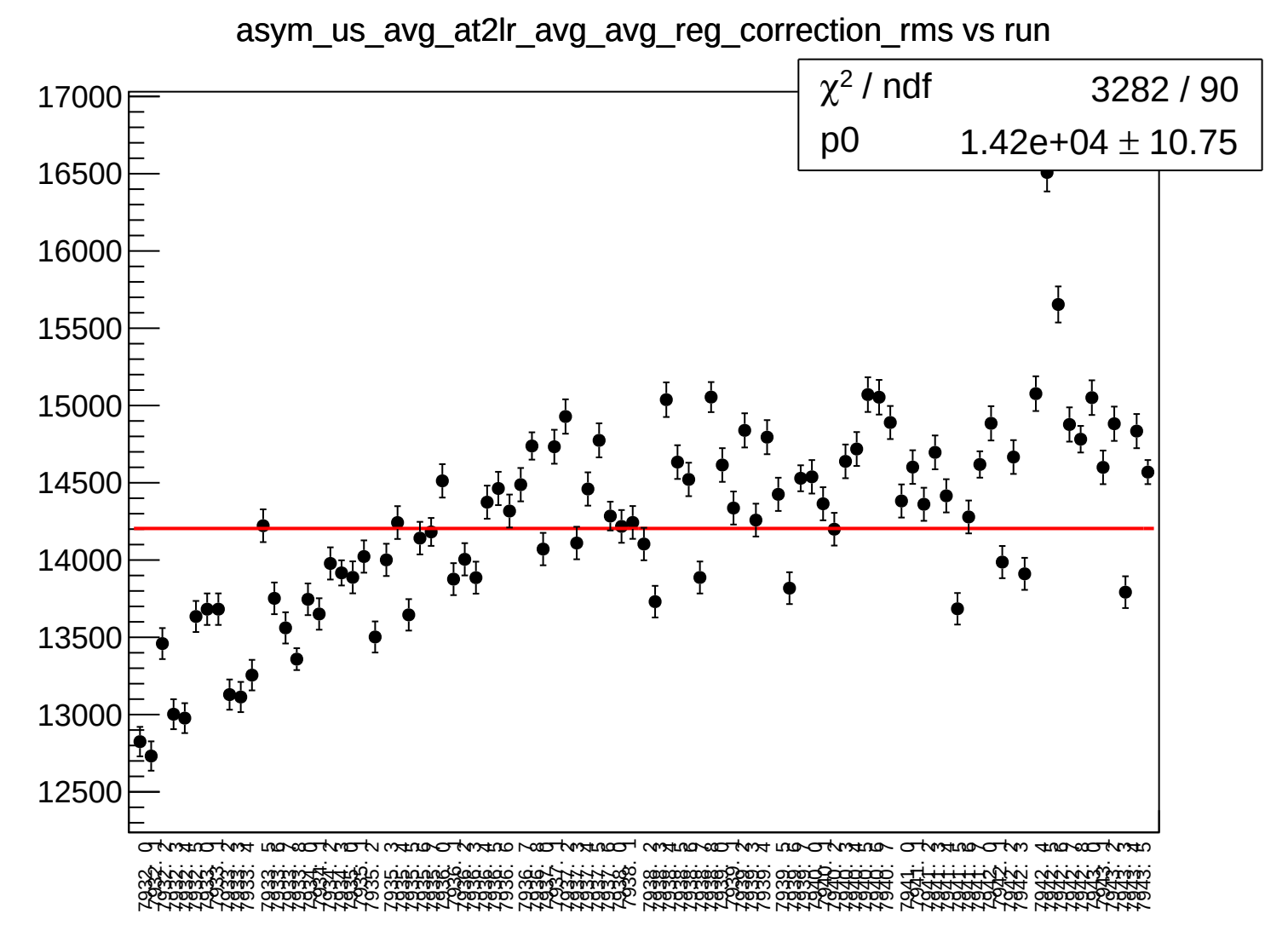

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.68 / 90
p0 −2739 ± 2393
pull
Entries 91
Mean −2459
Std Dev 0

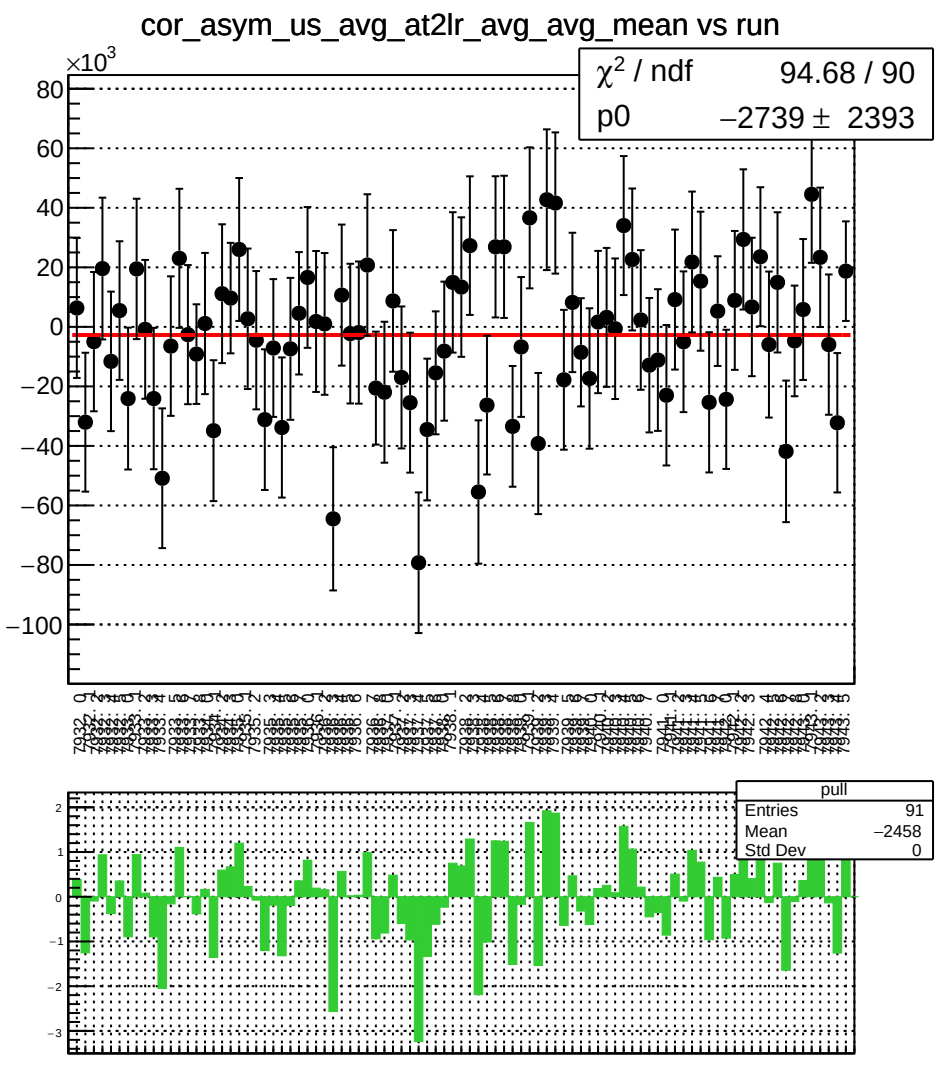

pull1D
Entries 91
Mean −0.001862
Std Dev 1.02

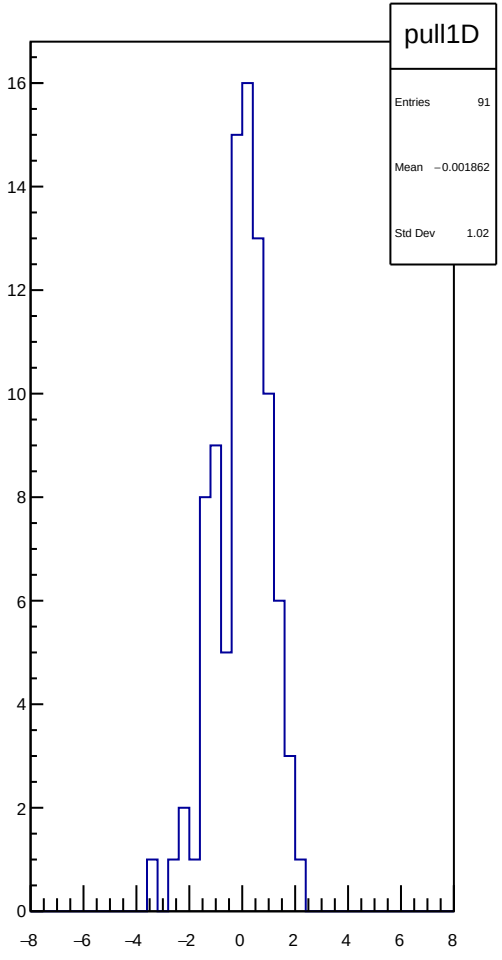

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 163.2 / 90
p0 2237 ± 1.692
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

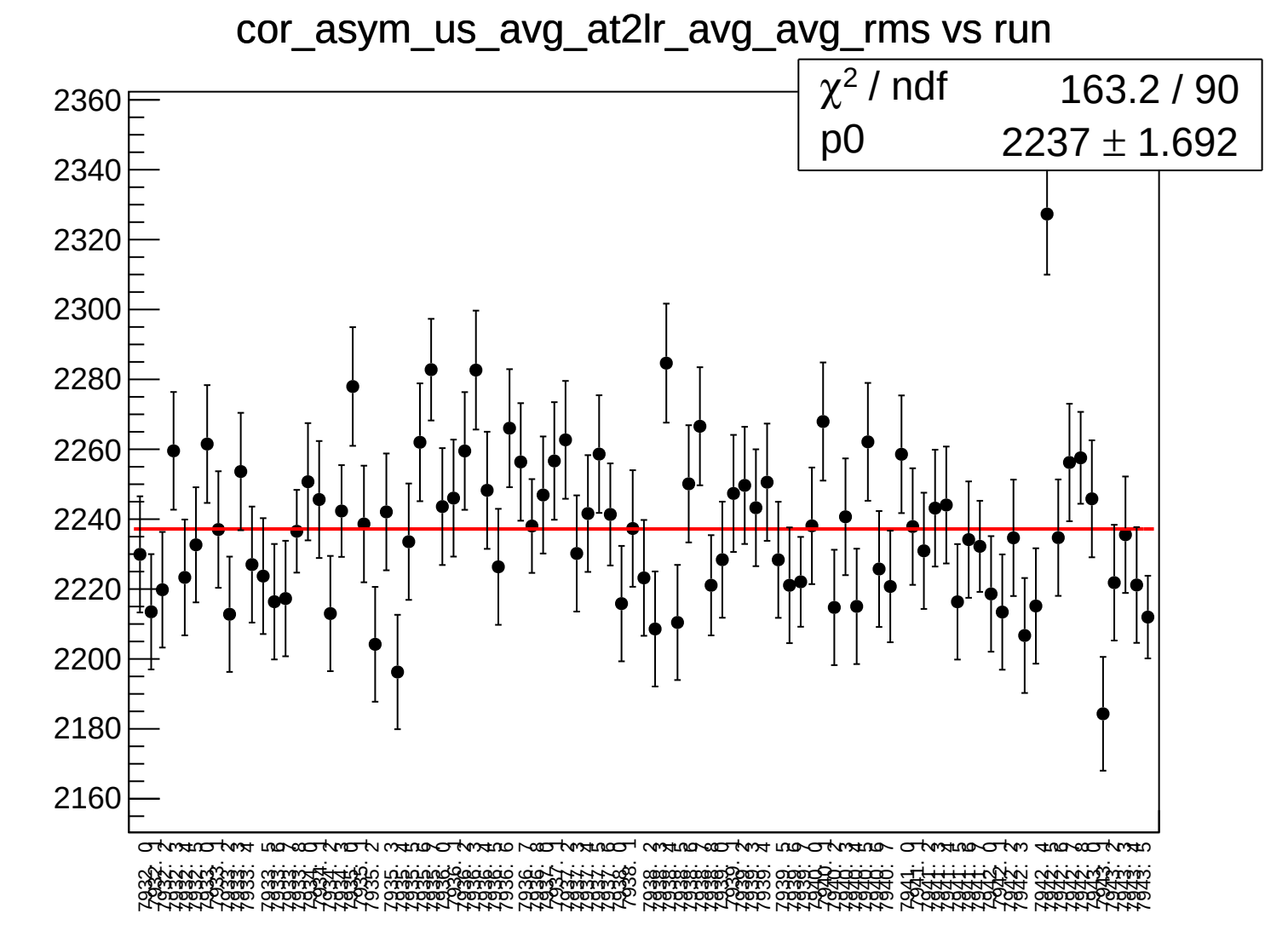

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −5092 ± 1.521e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −351.1
Std Dev 0
3
2
1
0
−1
−2

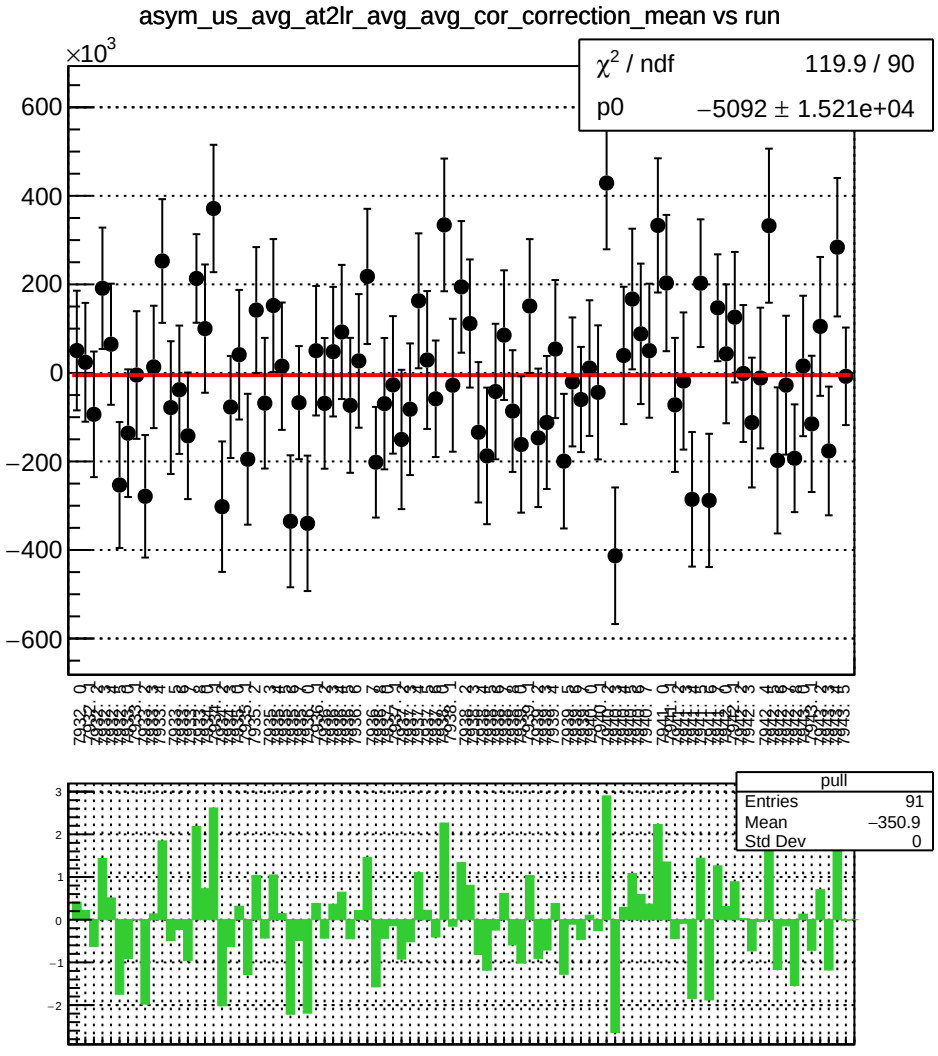

pull1D
Entries 91
Mean −0.00332
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

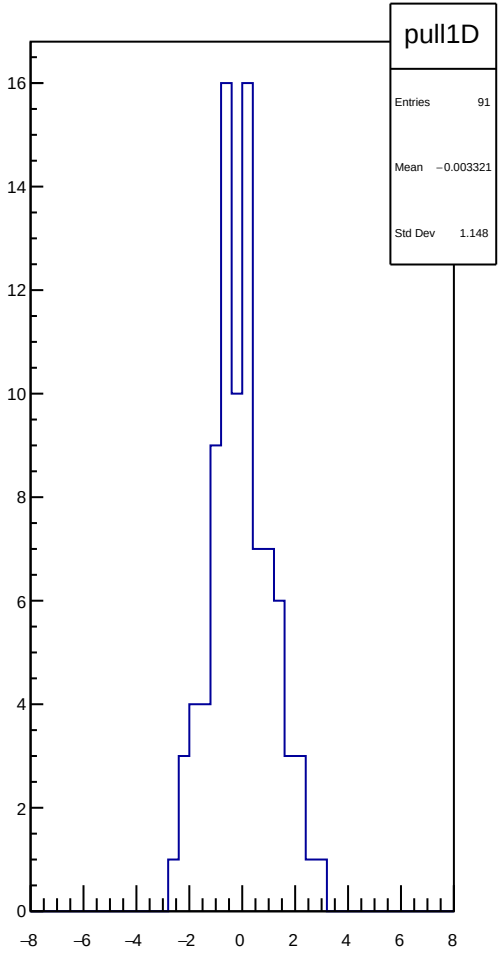

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3282 / 90
p0 1.42e+04 ± 10.75
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

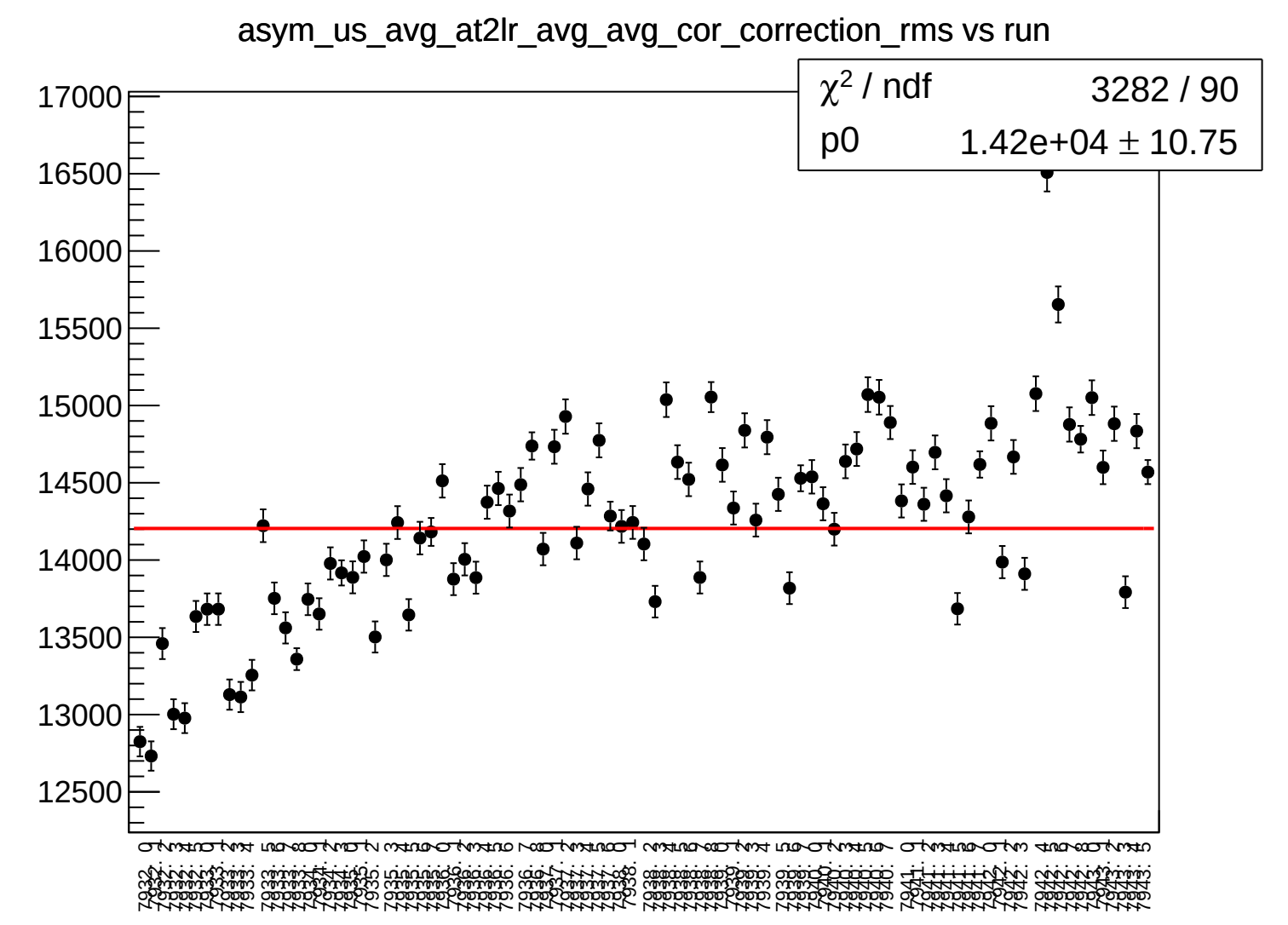

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.68 / 90
p0 −2739 ± 2393
pull
Entries 91
Mean −2458
Std Dev 0

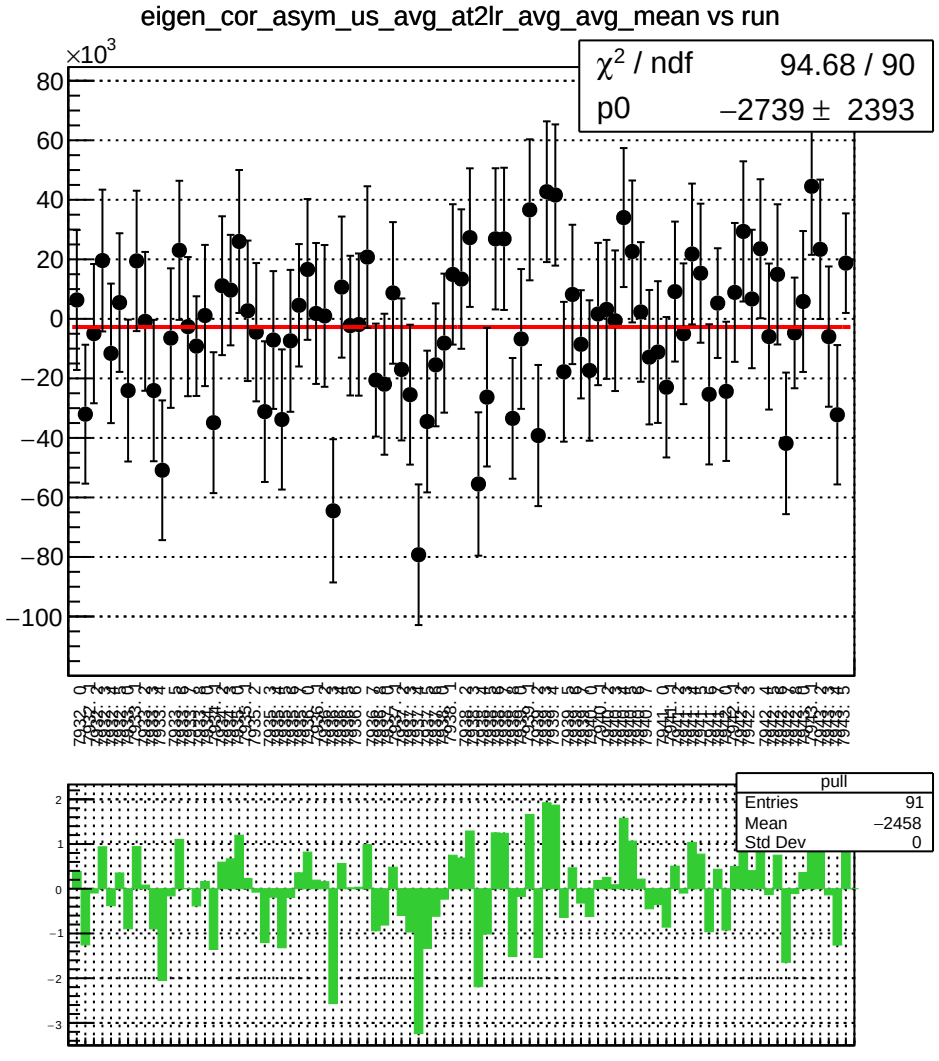

pull1D
Entries 91
Mean −0.001862
Std Dev 1.02

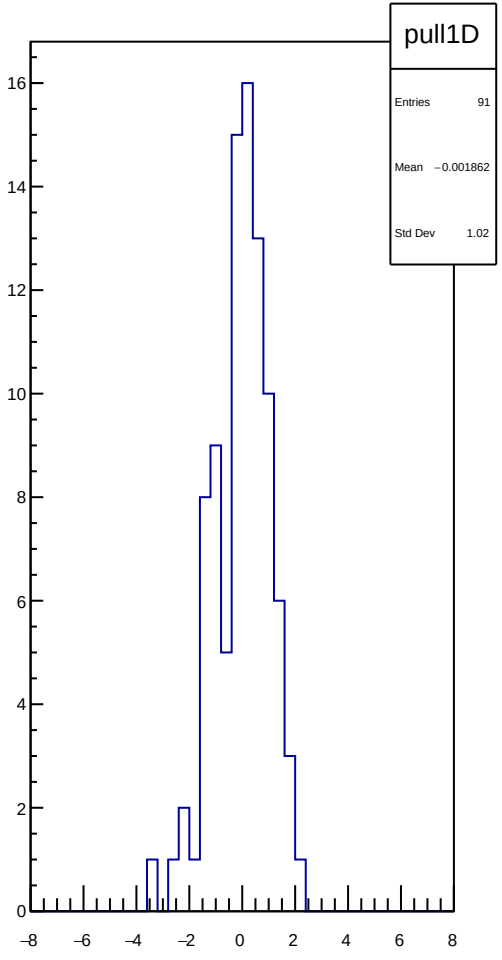

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 163.2 / 90
p0 2237 ± 1.692
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

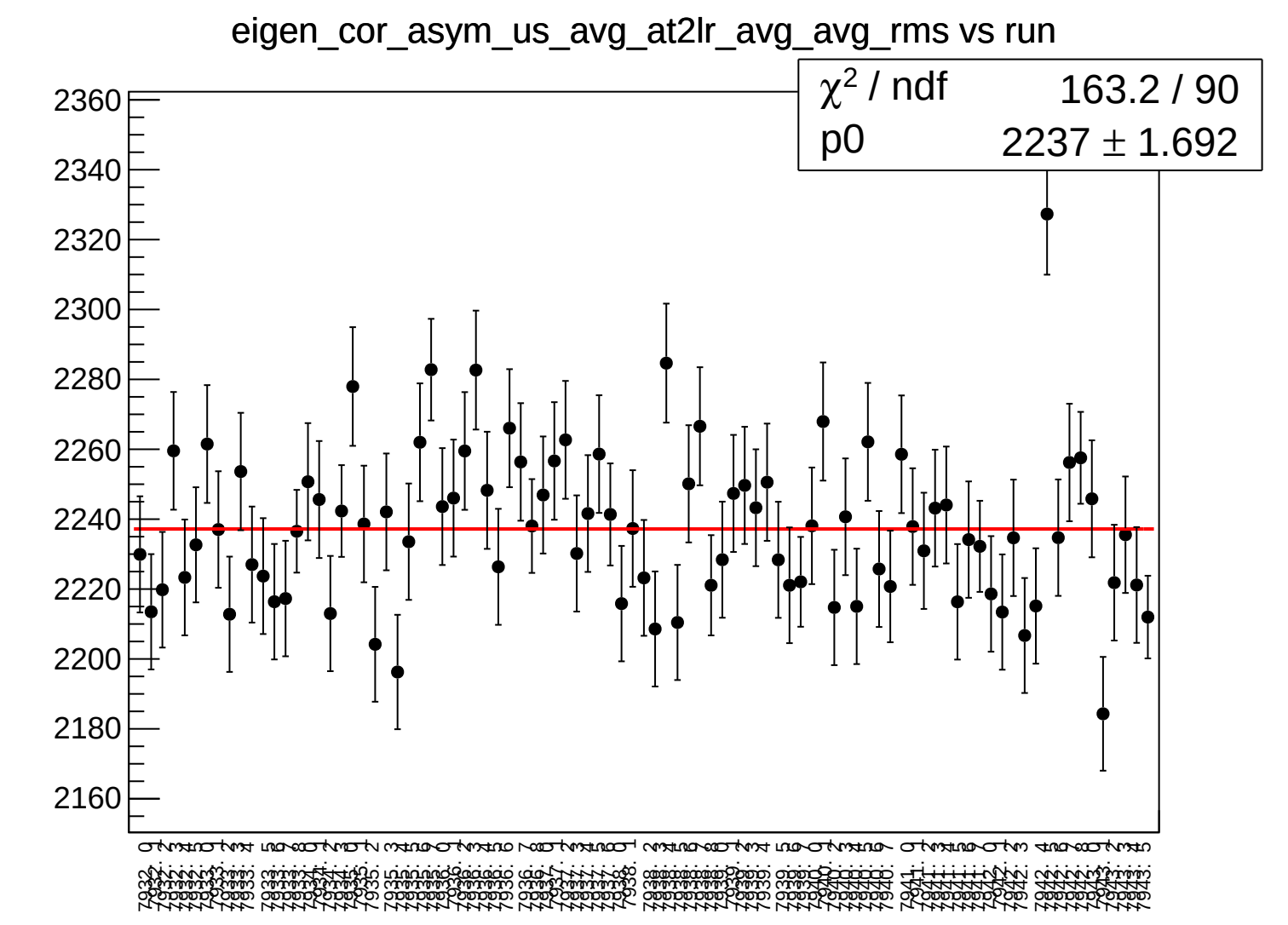

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −5092 ± 1.521e+04
pull
Entries 91
Mean −350.9
Std Dev 0

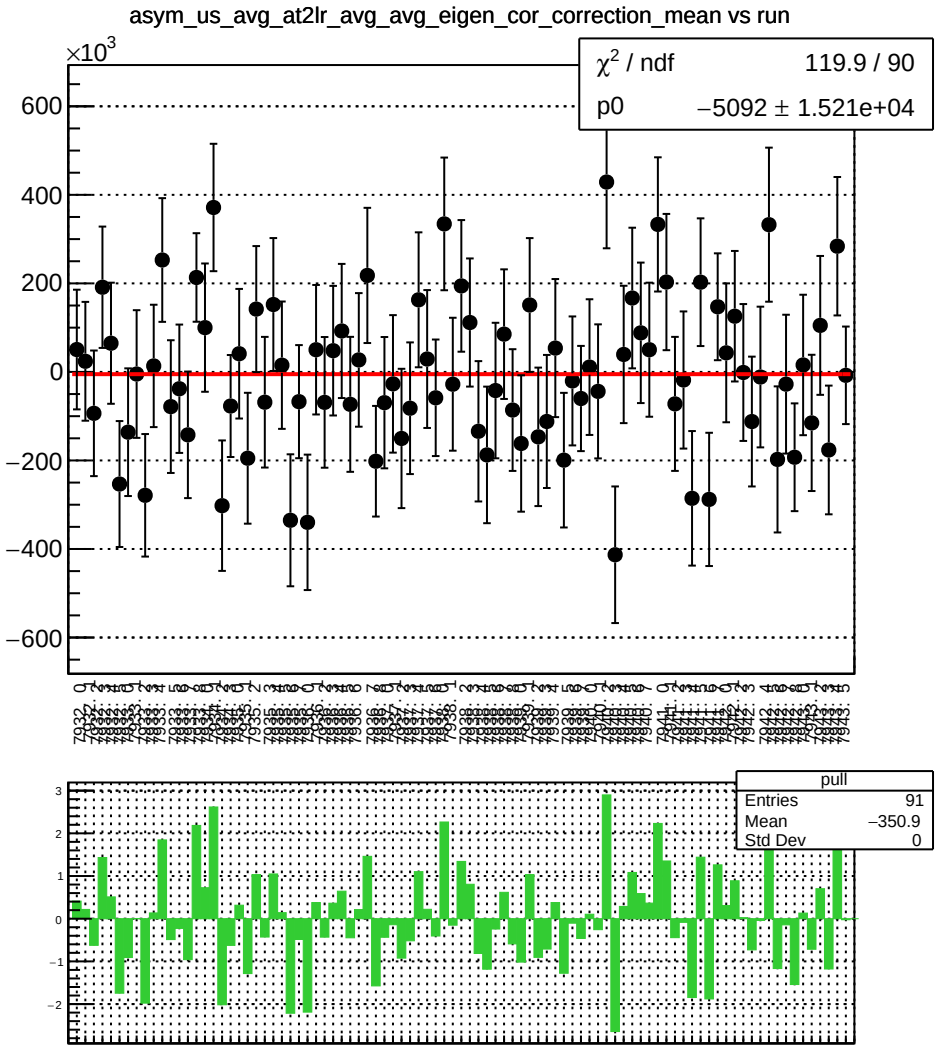

pull1D
Entries 91
Mean −0.003321
Std Dev 1.148

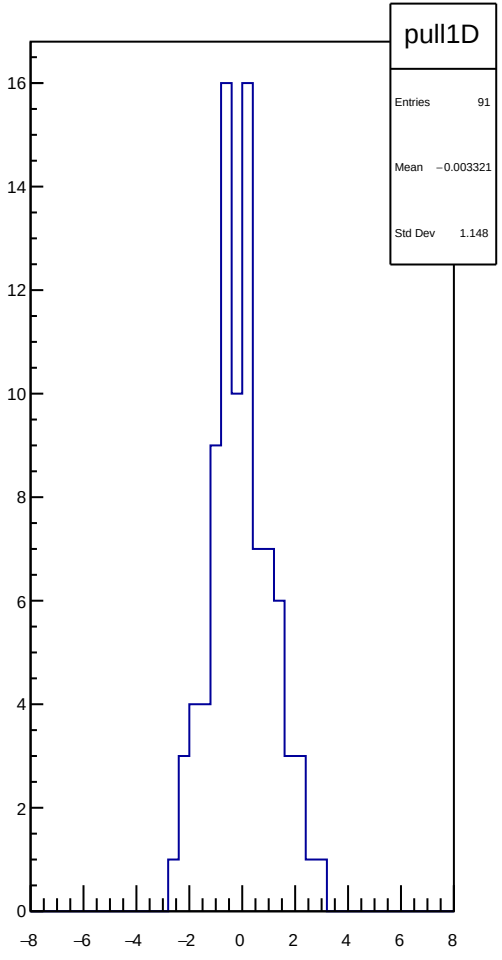

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3282 / 90
p0 1.42e+04 ± 10.75
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

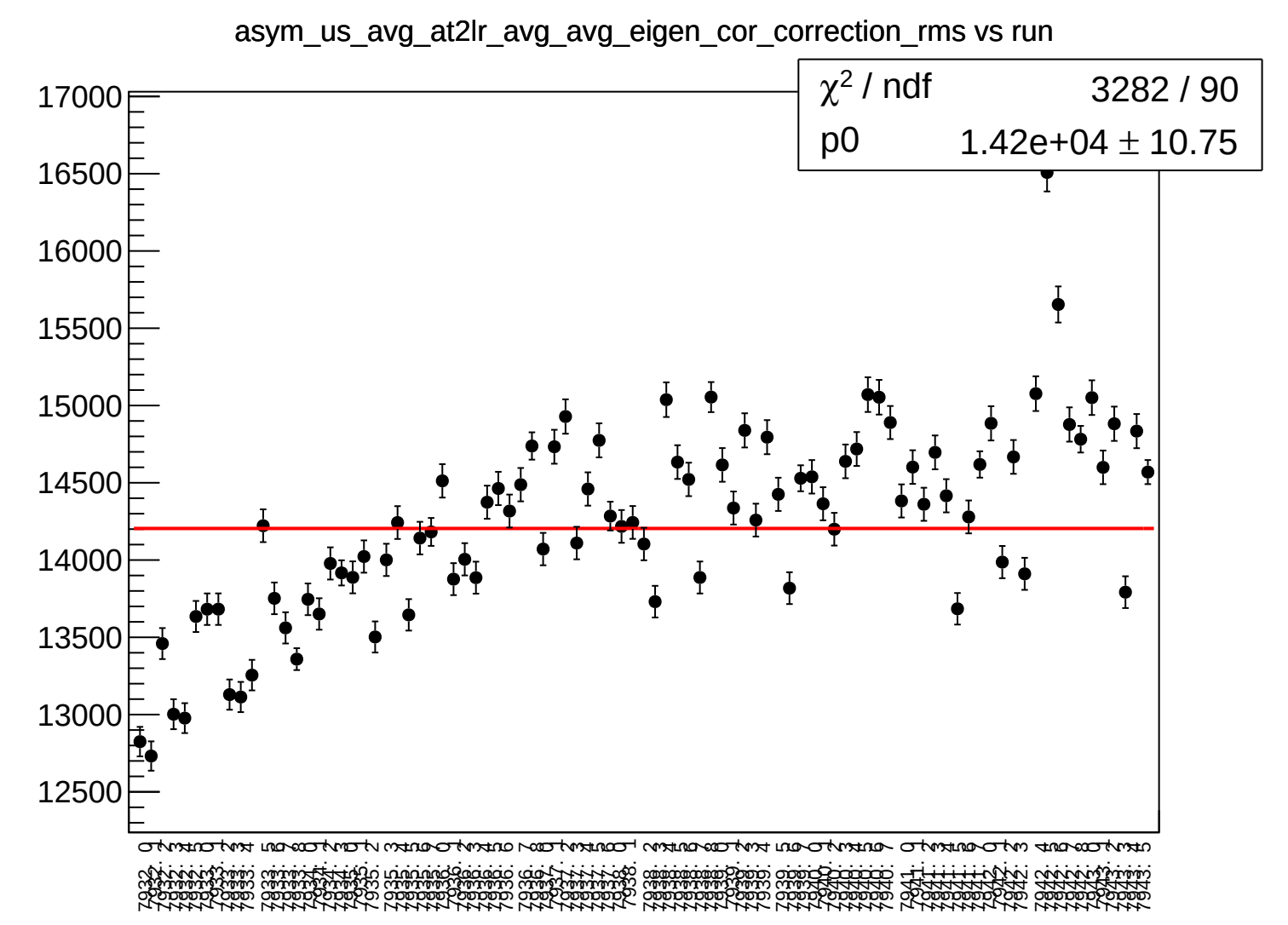

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.68 / 90
p0 −2739 ± 2393
pull
Entries 91
Mean −2458
Std Dev 0

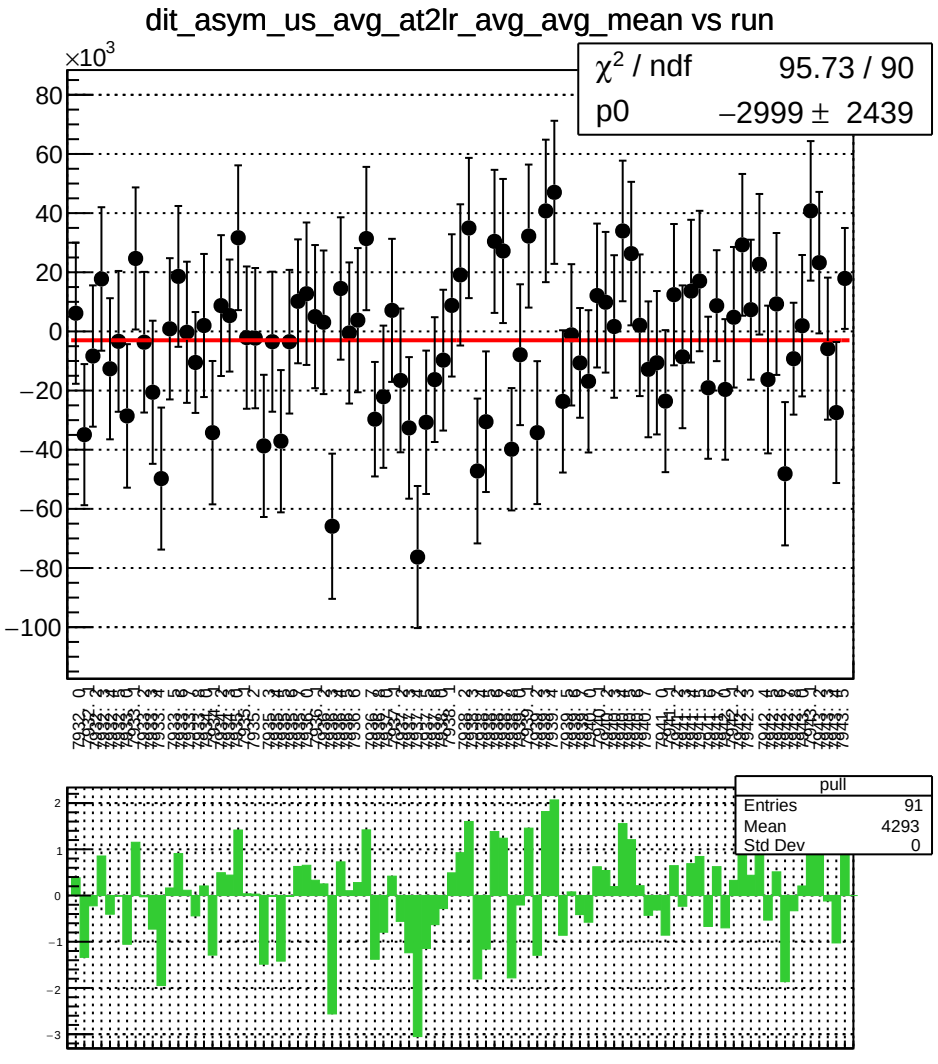

pull1D
Entries 91
Mean −0.001862
Std Dev 1.02

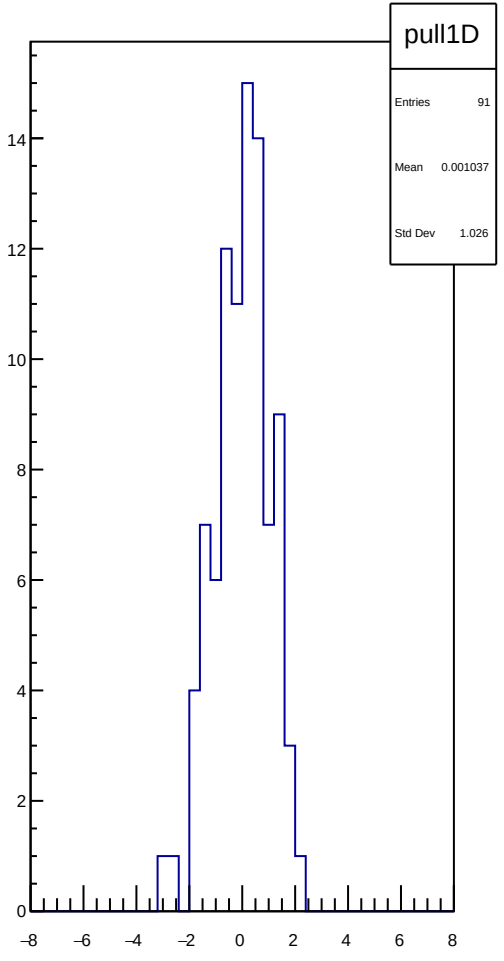

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 163.2 / 90
p0 2237 ± 1.692
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

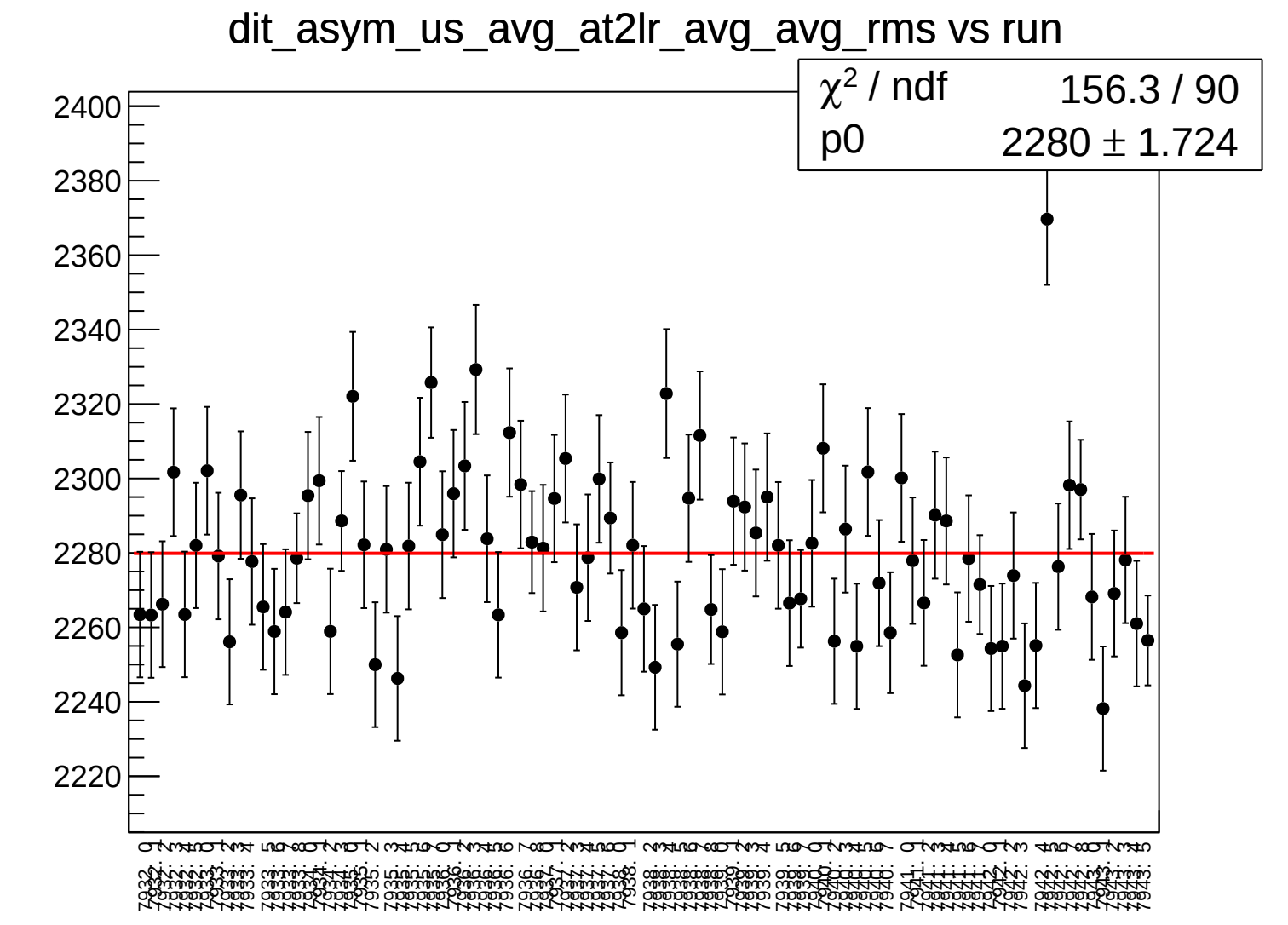

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 −5092 ± 1.521e+04
pull
Entries 91
Mean −350.9
Std Dev 0

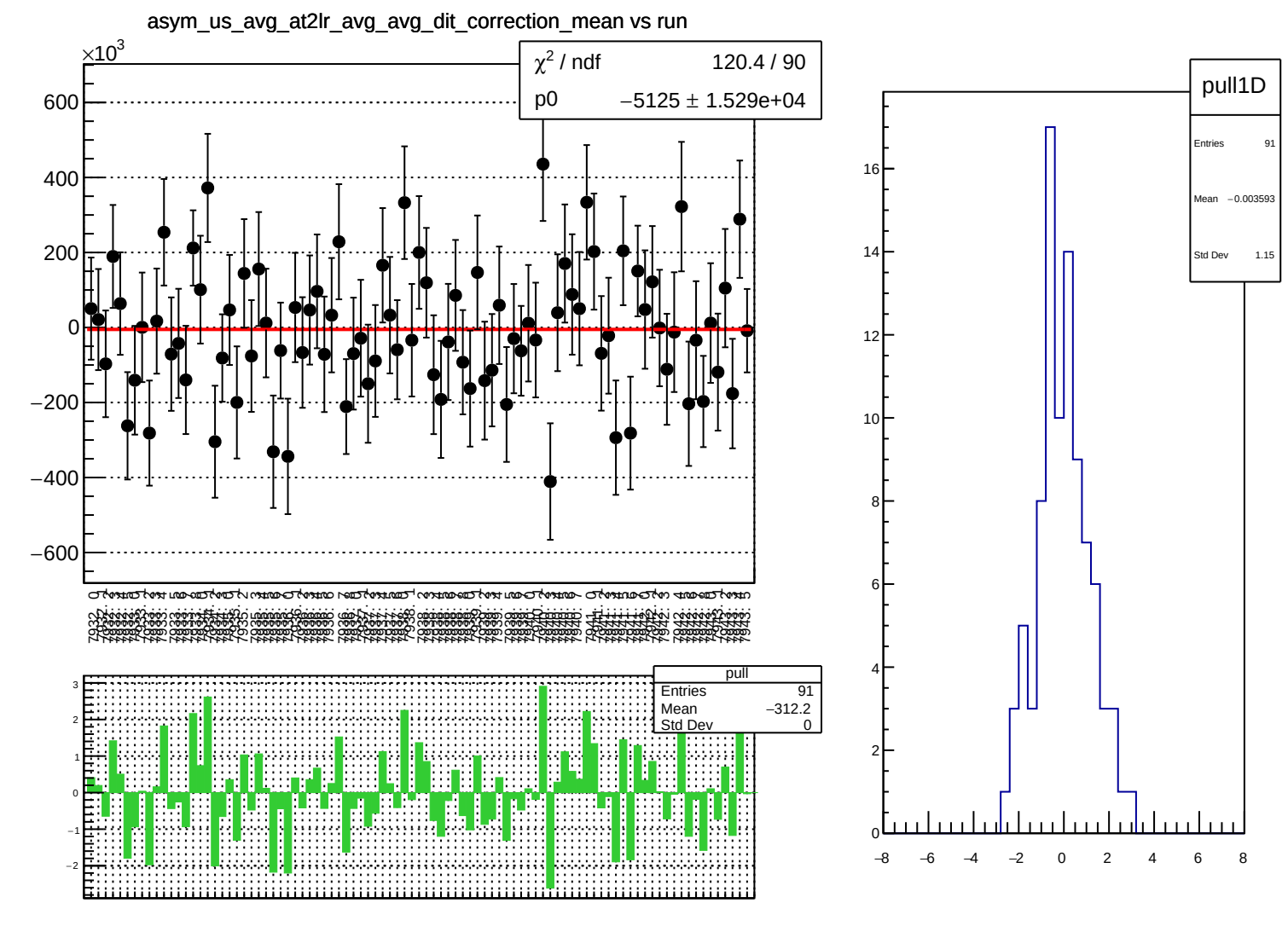

pull1D
Entries 91
Mean −0.003321
Std Dev 1.148

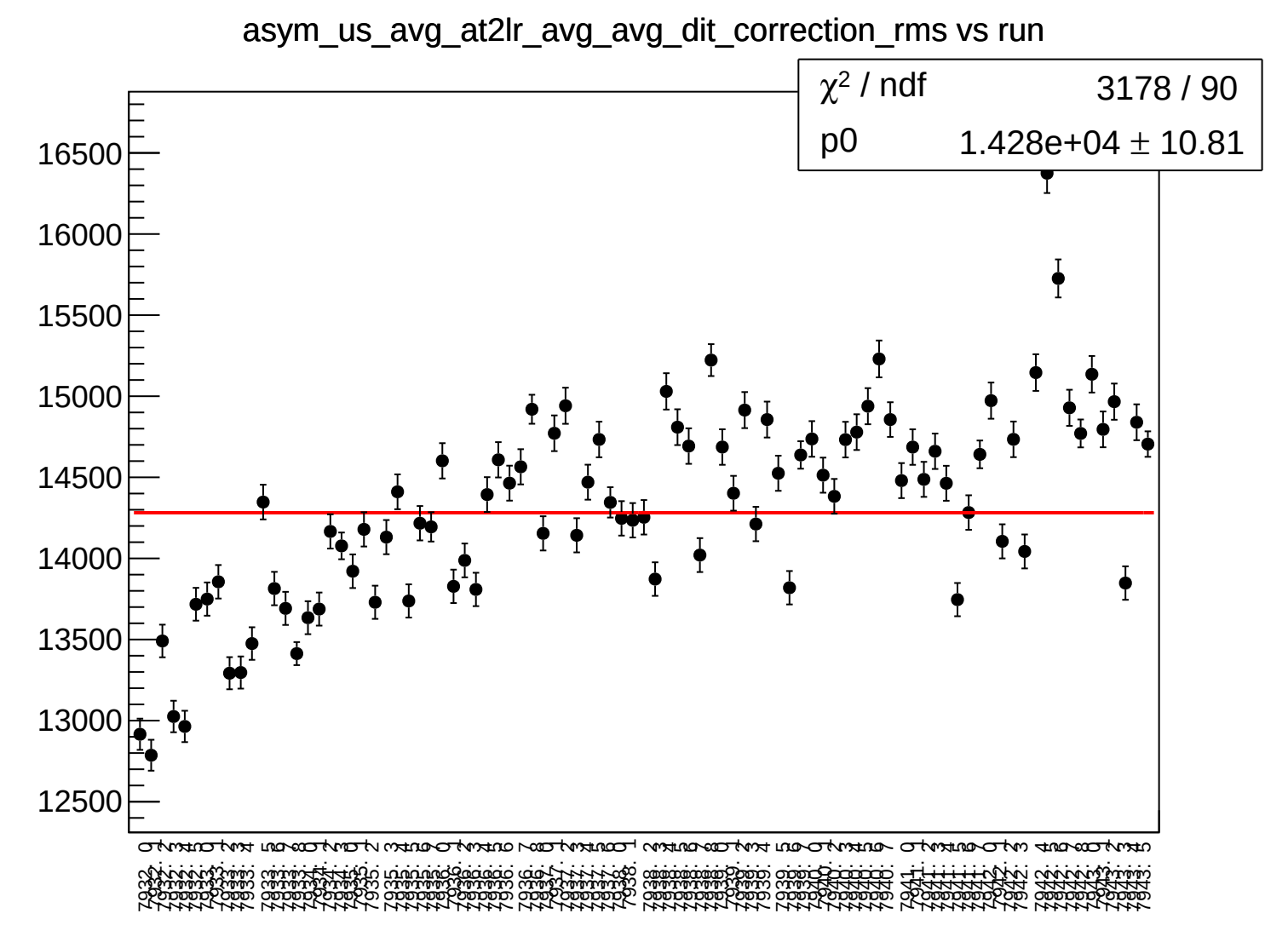

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3282 / 90
p0 1.42e+04 ± 10.75
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

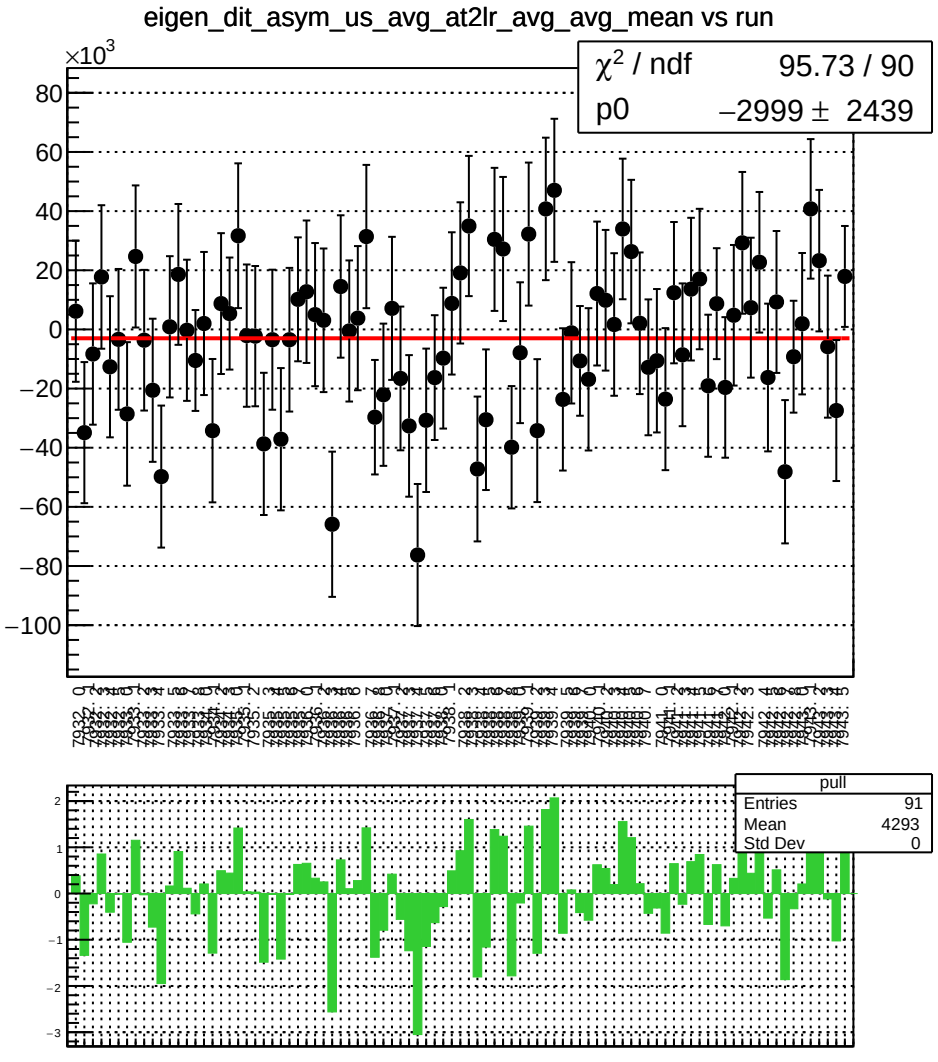

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 95.73 / 90
p0 −2999 ± 2439
pull
Entries 91
Mean 4293
Std Dev 0

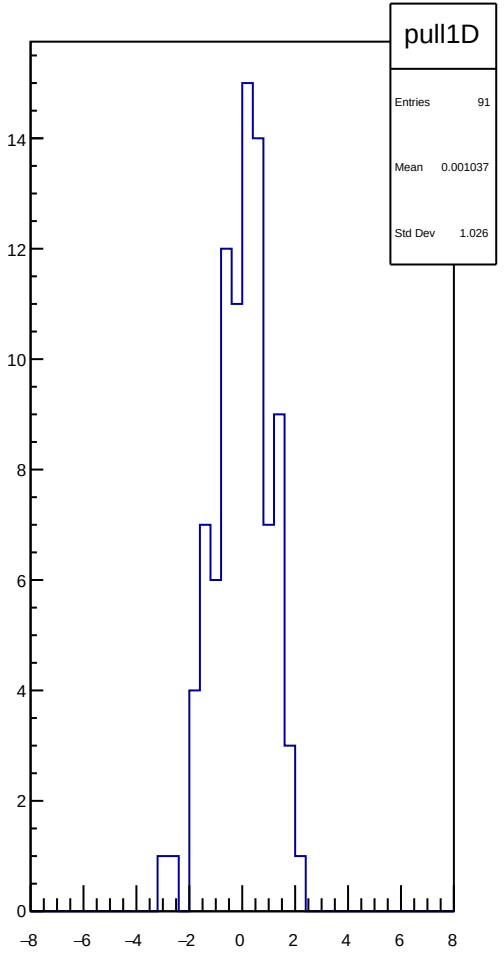

pull1D
Entries 91
Mean 0.001037
Std Dev 1.026

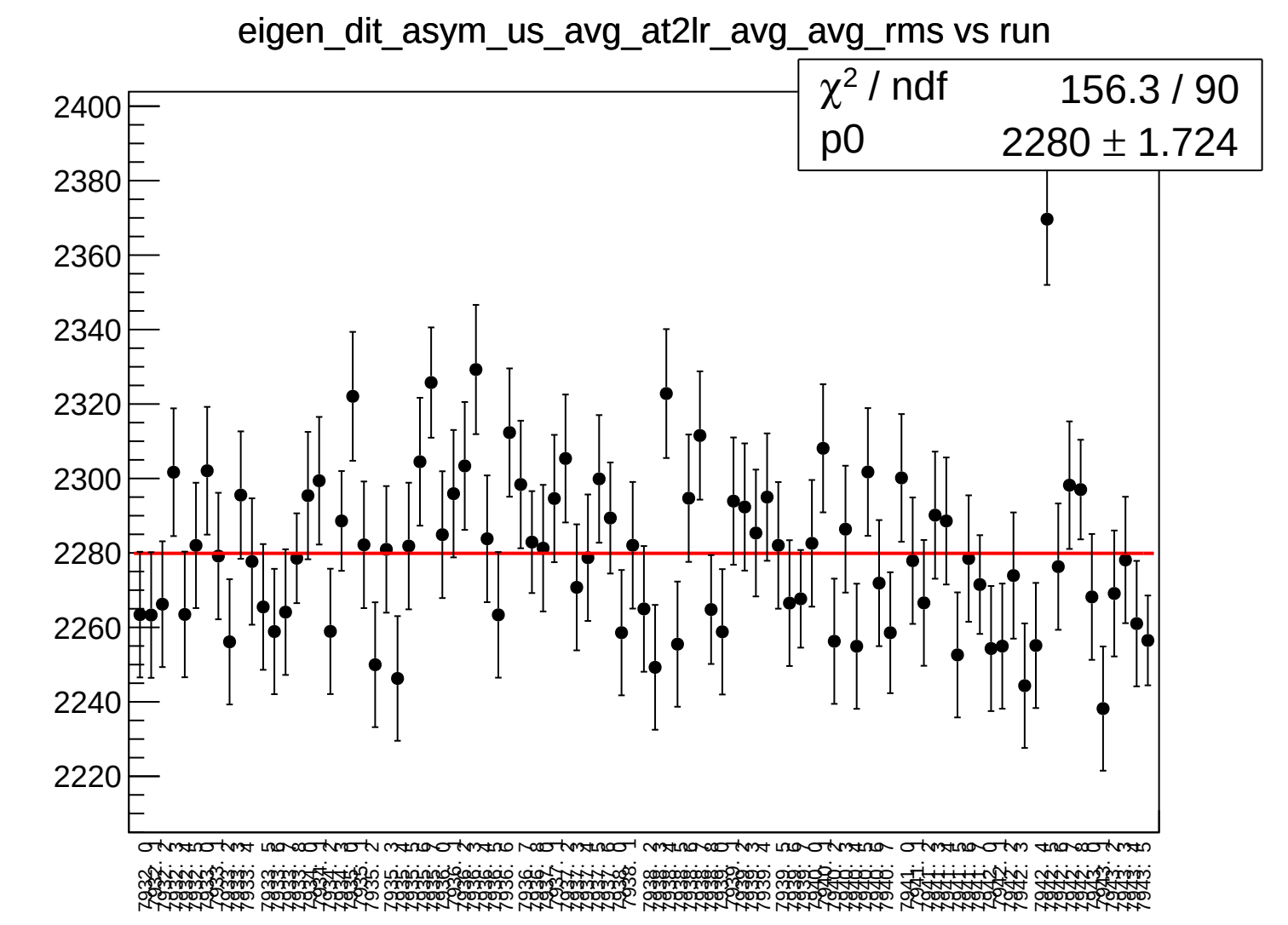

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 156.3 / 90
p0 2280 ± 1.724
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

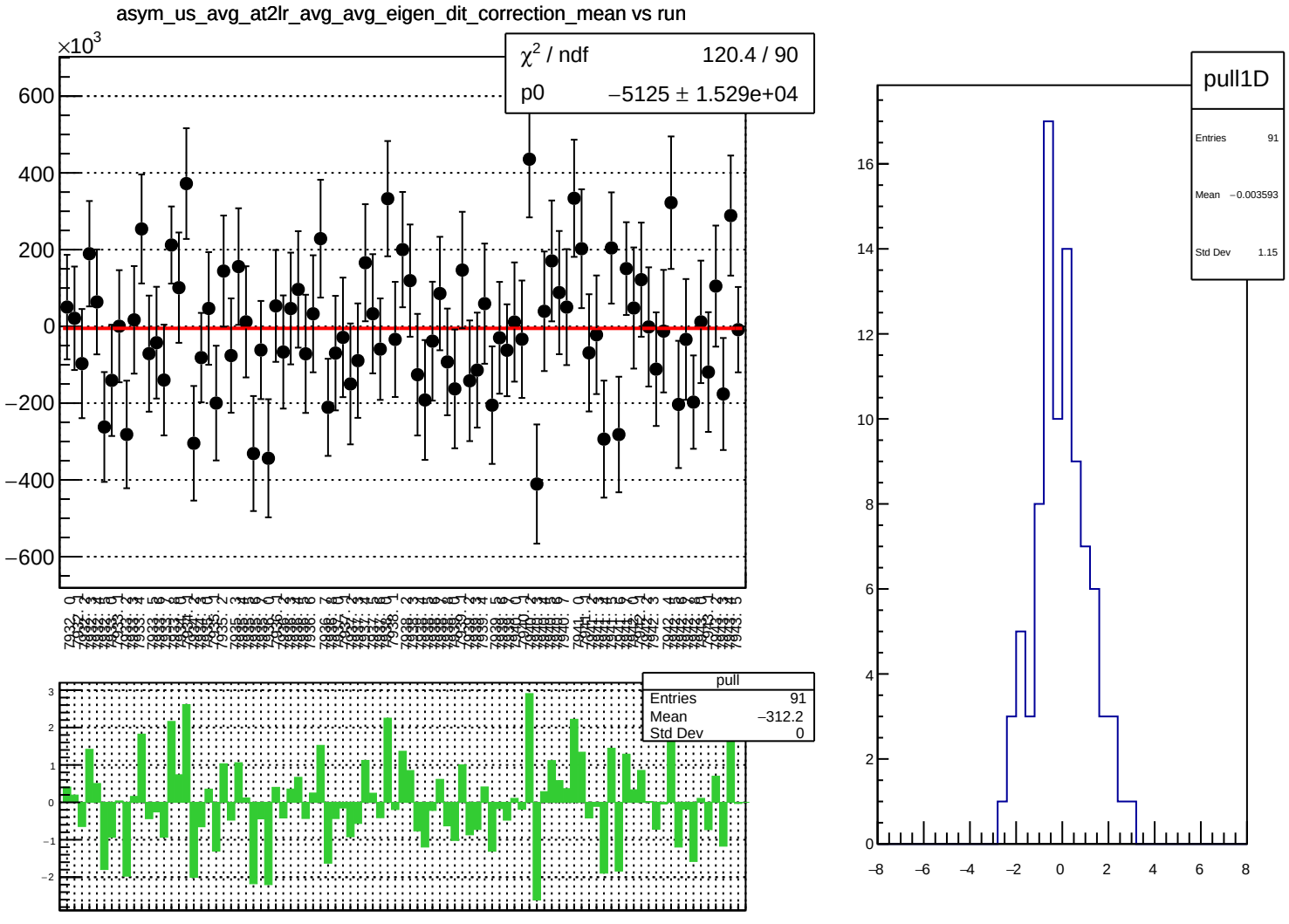

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 120.4 / 90
p0 −5125 ± 1.529e+04
pull
Entries 91
Mean −312.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.003593
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

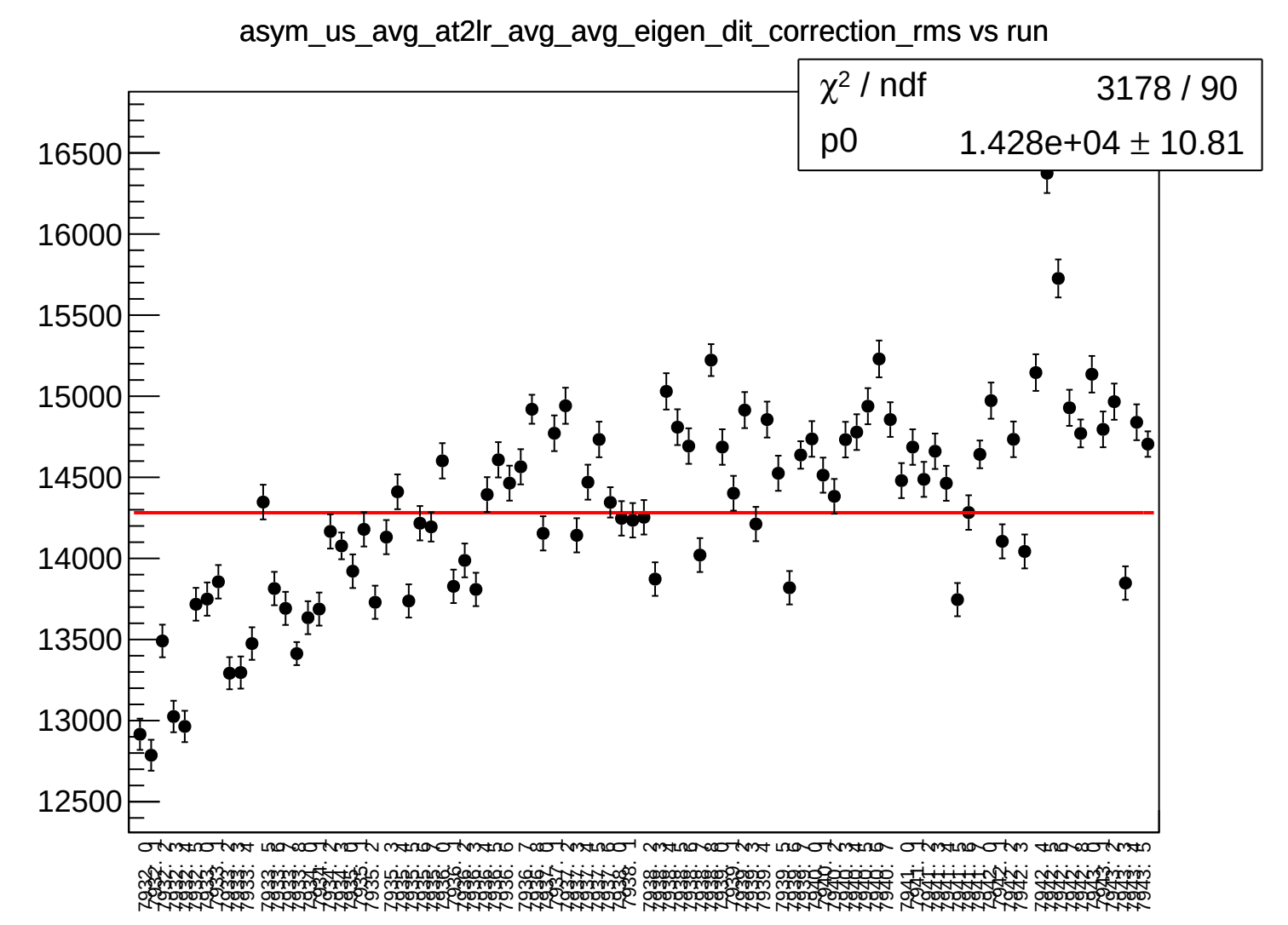

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3178 / 90
p0 1.428e+04 ± 10.81
16500
16000
15500
15000
14500
14000
13500
13000
12500

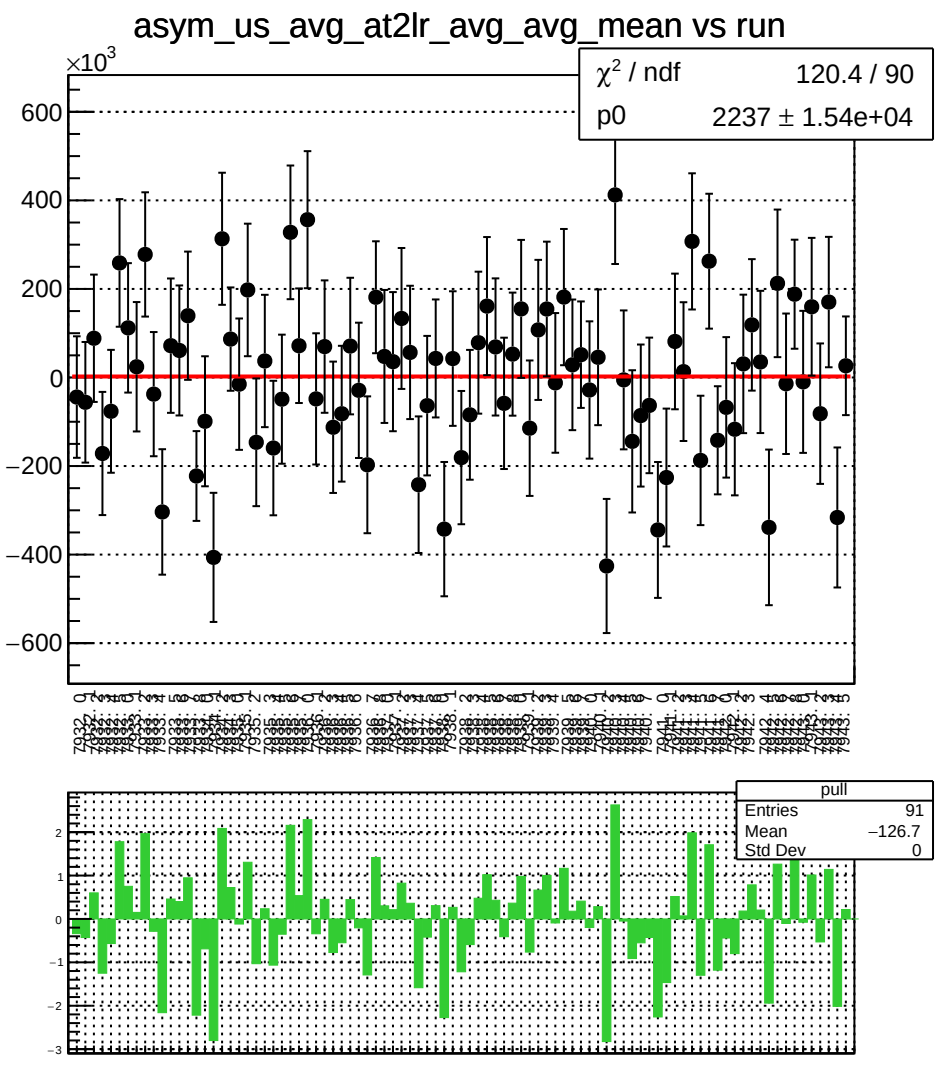

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 95.73 / 90
p0 −2999 ± 2439
×10³
pull
Entries 91
Mean 4293
Std Dev 0

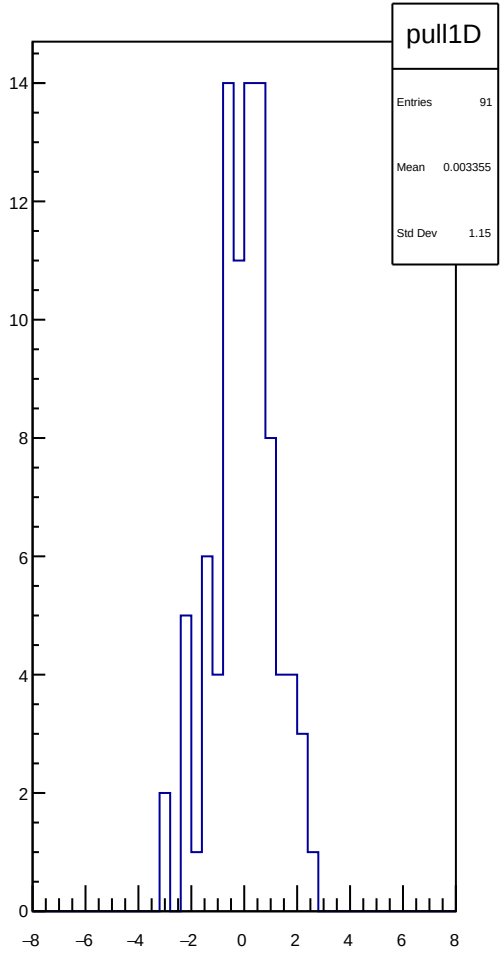

pull1D
Entries 91
Mean 0.001037
Std Dev 1.026

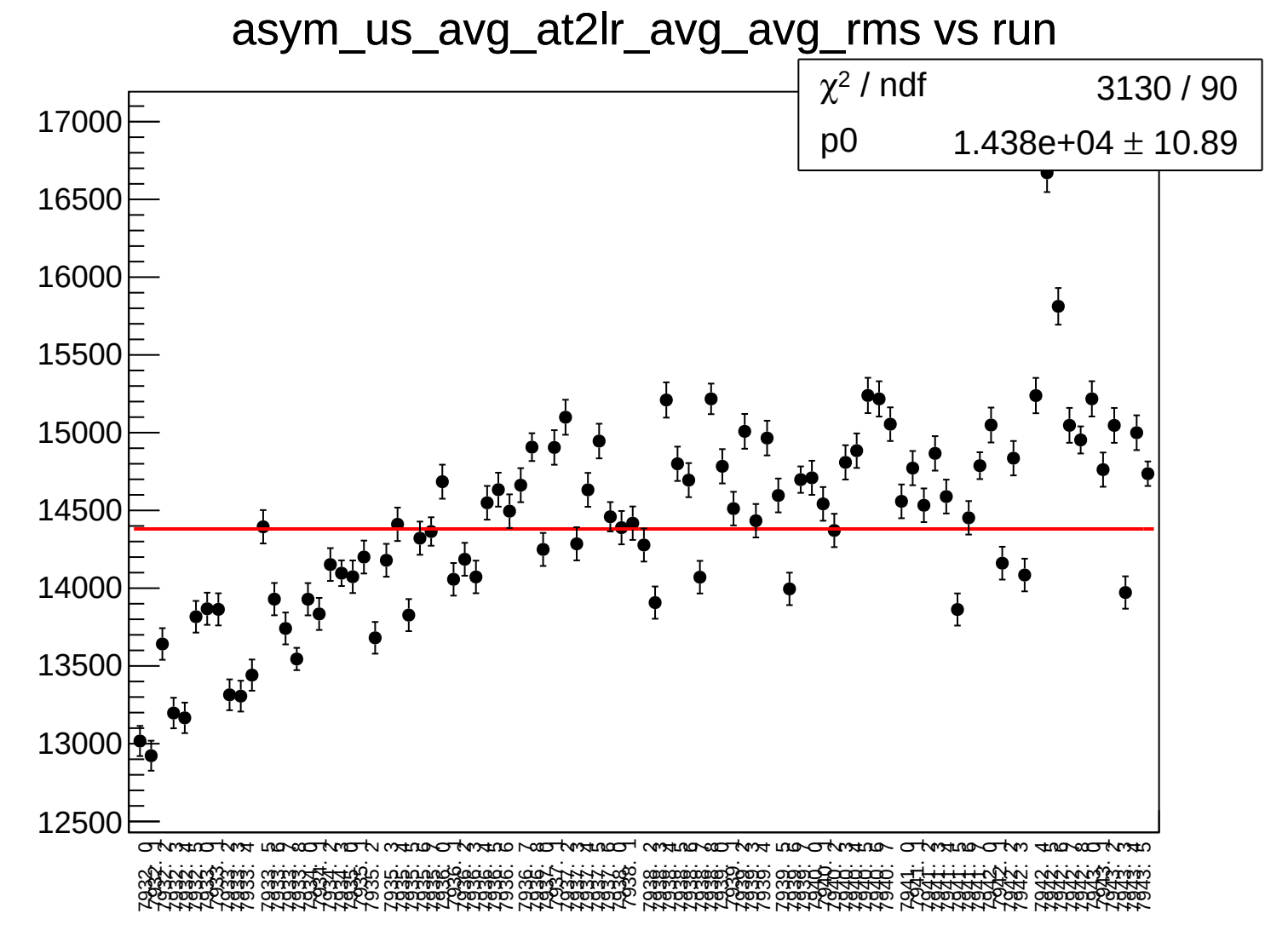

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 156.3 / 90
p0 2280 ± 1.724
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

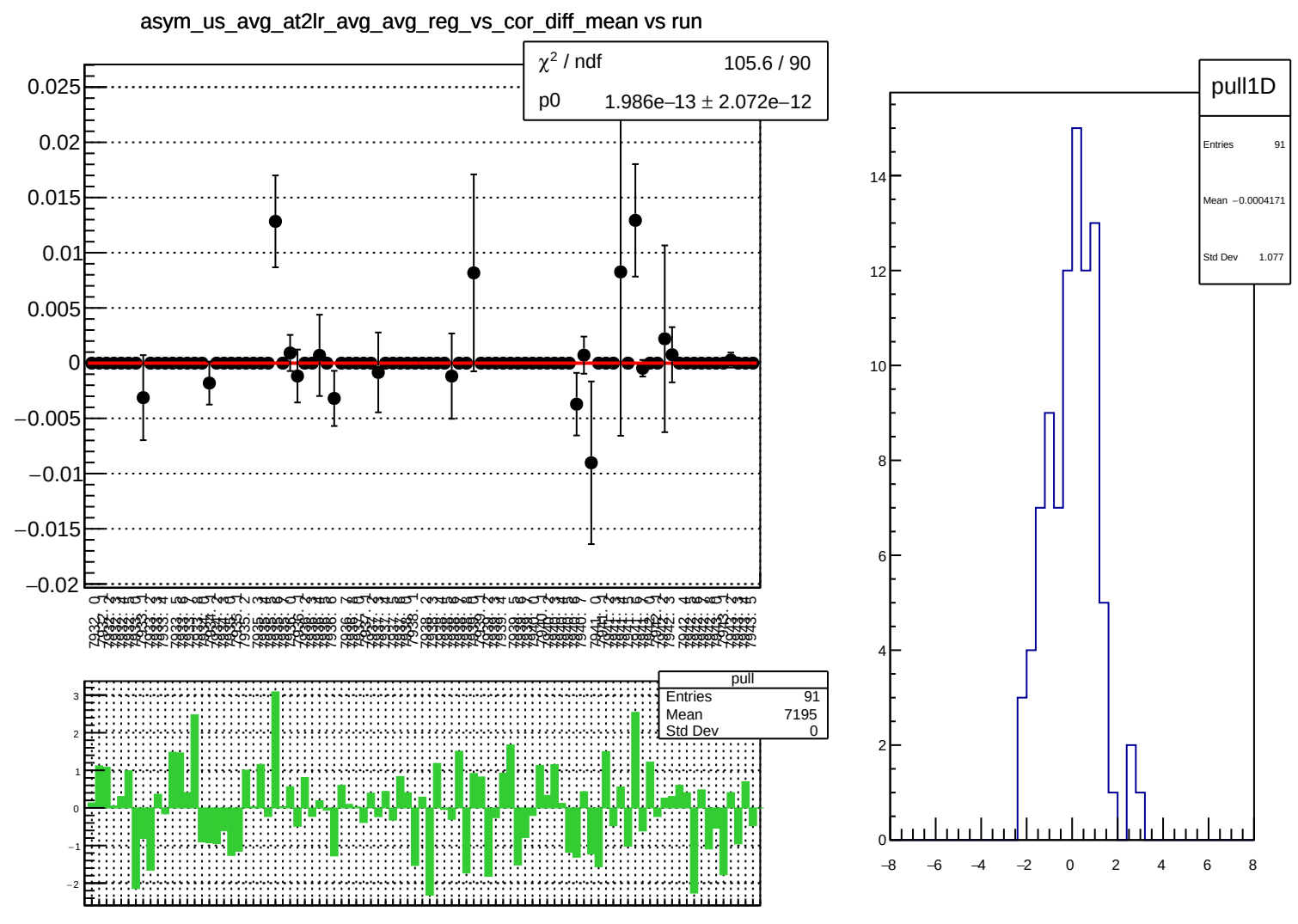

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 −5125 ± 1.529e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −312.2
Std Dev 0
pull1D
Entries 91
Mean −0.003593
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

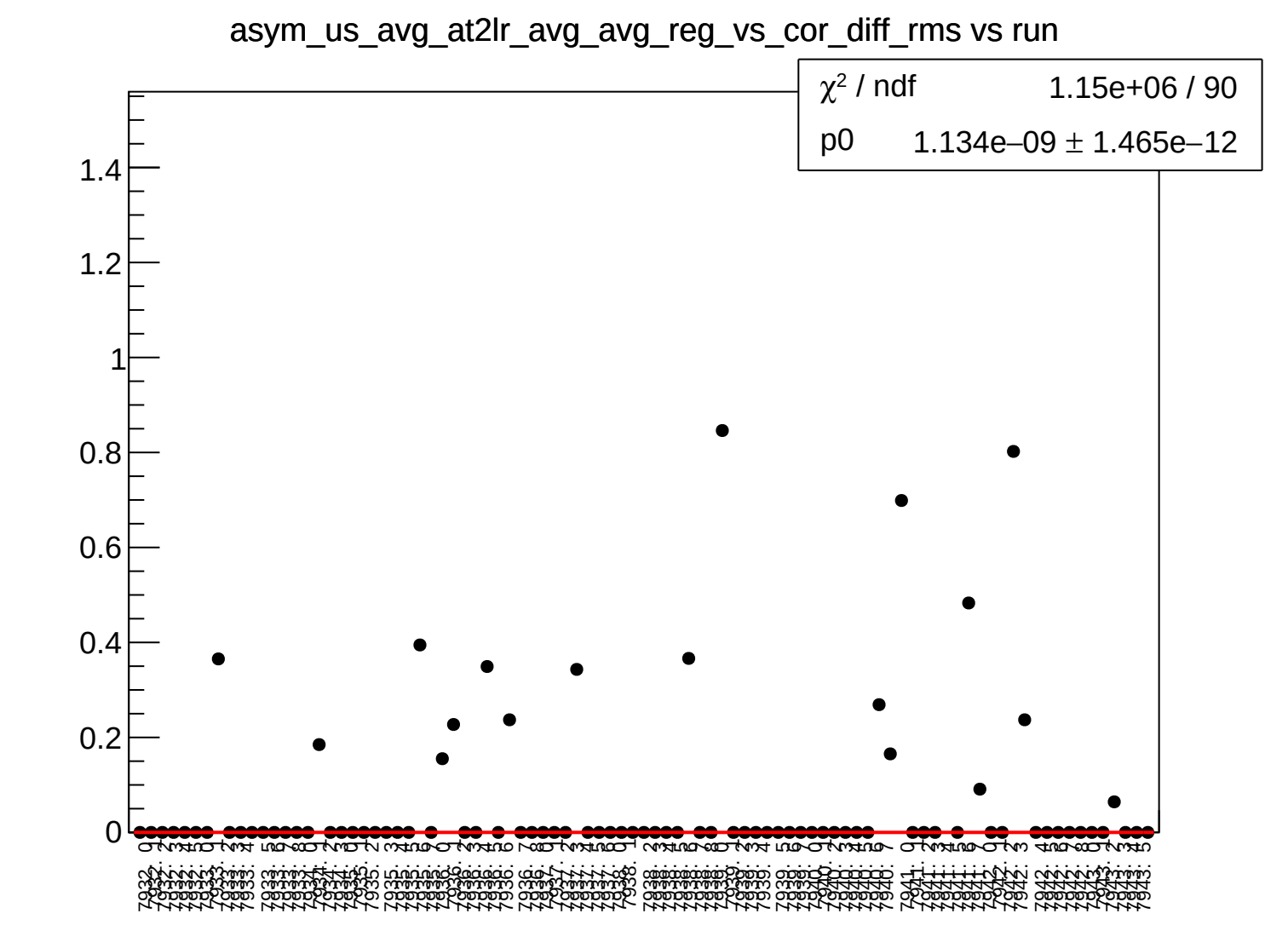

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3178 / 90
p0 1.428e+04 ± 10.81
16500
16000
15500
15000
14500
14000
13500
13000
12500

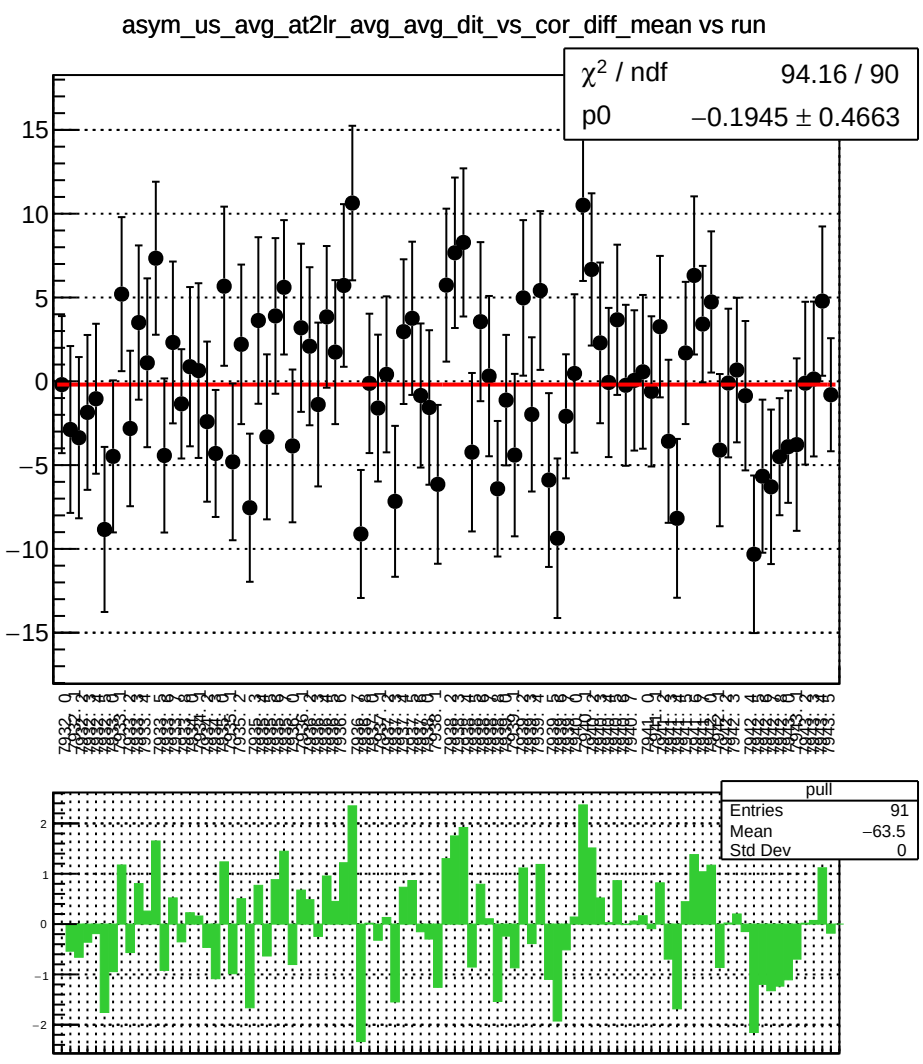

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 2237 ± 1.54e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −126.7
Std Dev 0
2
1
0
−1
−2
−3

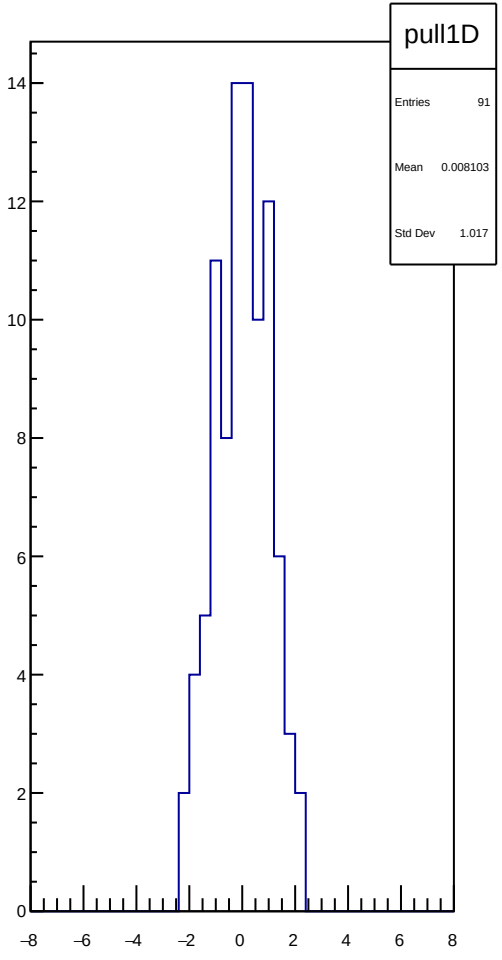

pull1D
Entries 91
Mean 0.003355
Std Dev 1.15
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

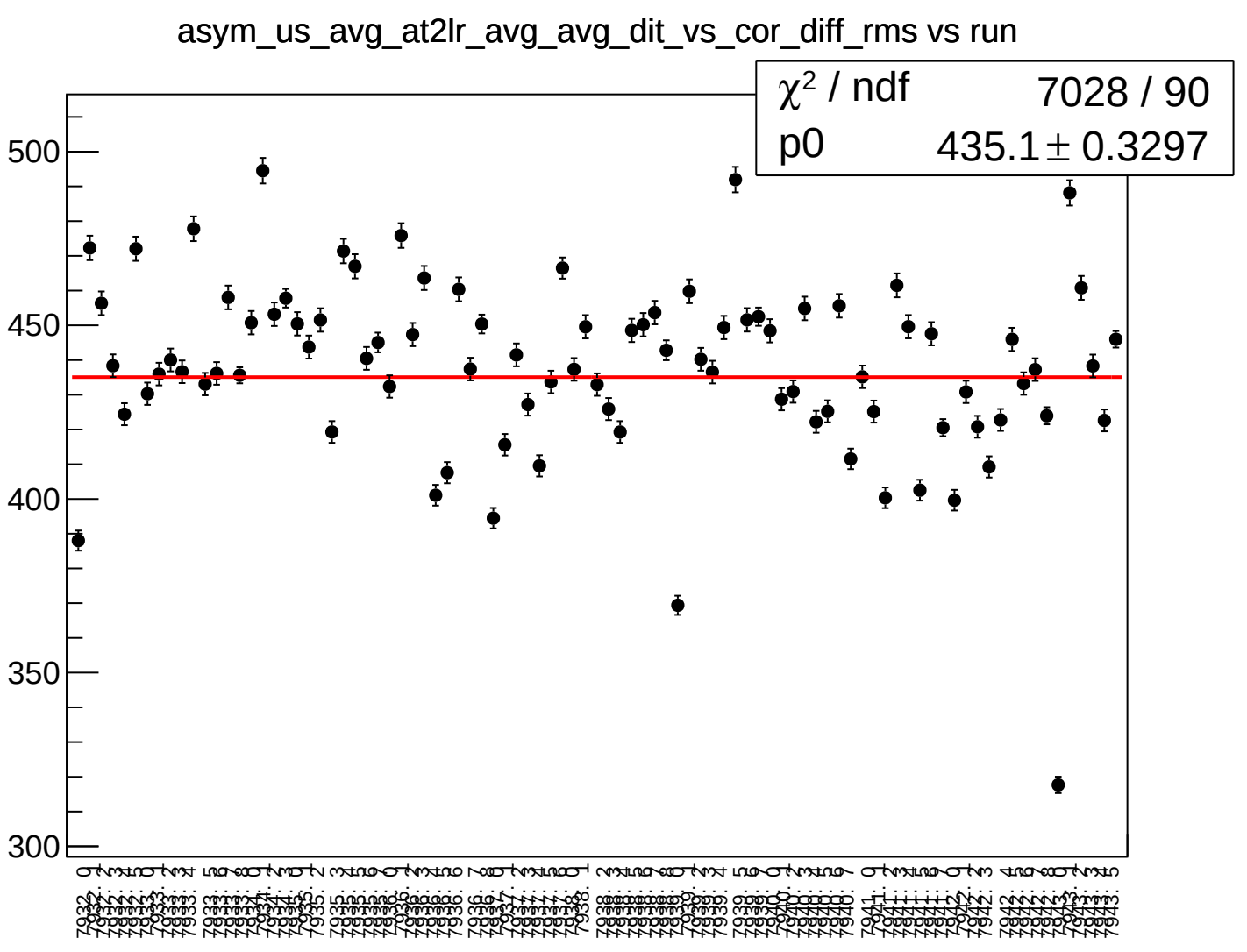

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3130 / 90
p0 1.438e+04 ± 10.89
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

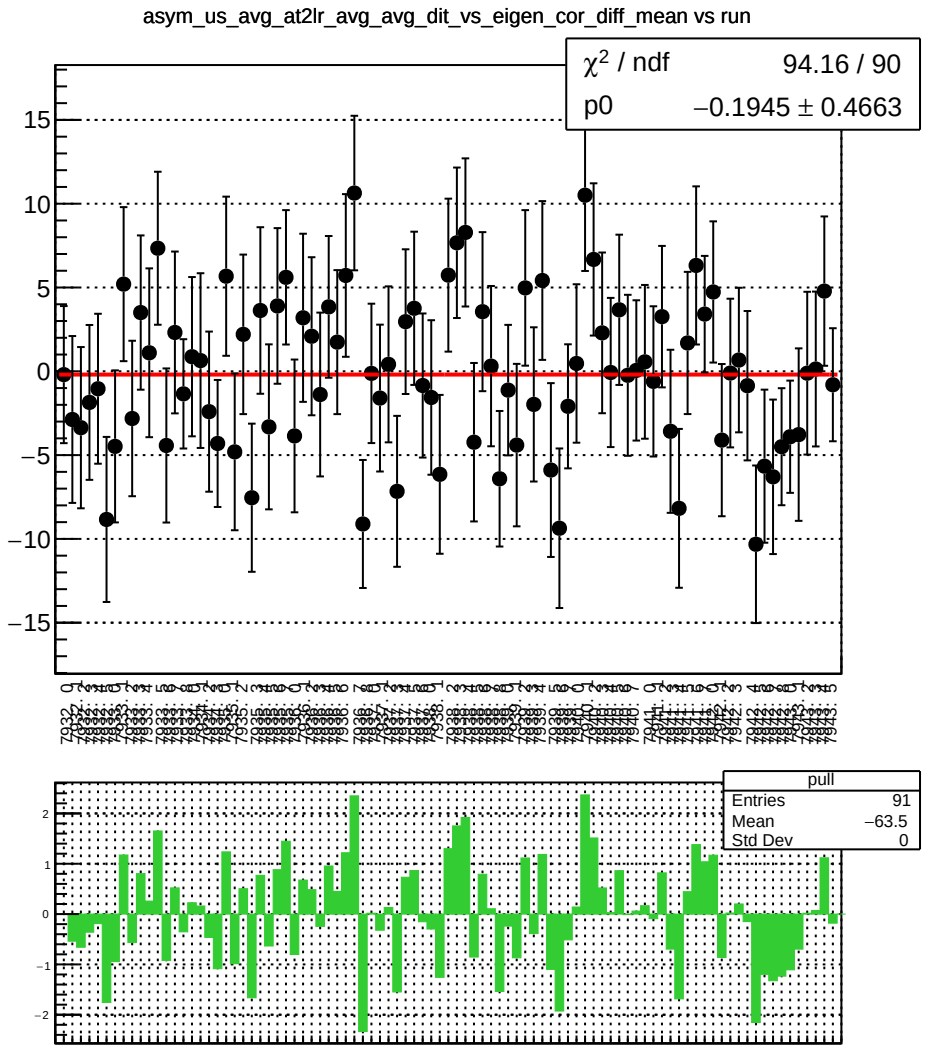

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 90
p0 1.986e−13 ± 2.072e−12
pull
Entries 91
Mean 7195
Std Dev 0
pull1D
Entries 91
Mean −0.0004171
Std Dev 1.077

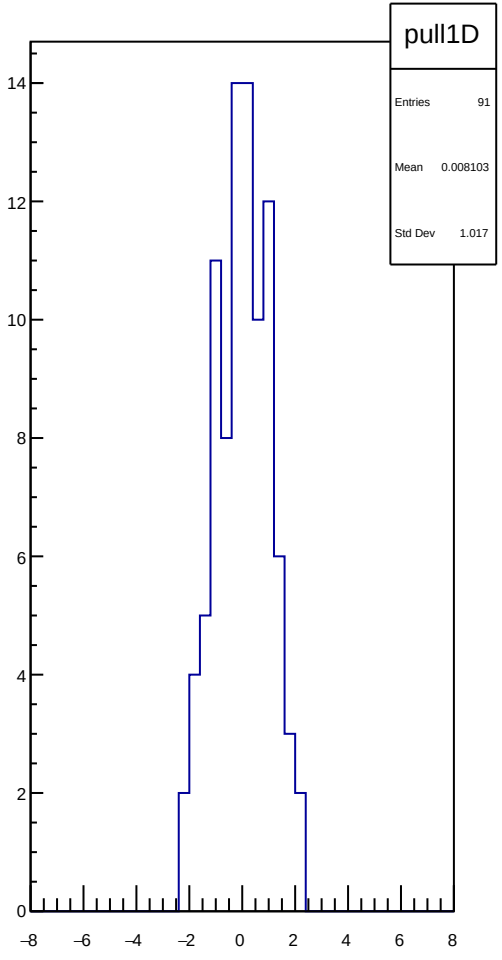

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 90
p0 1.134e−09 ± 1.465e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

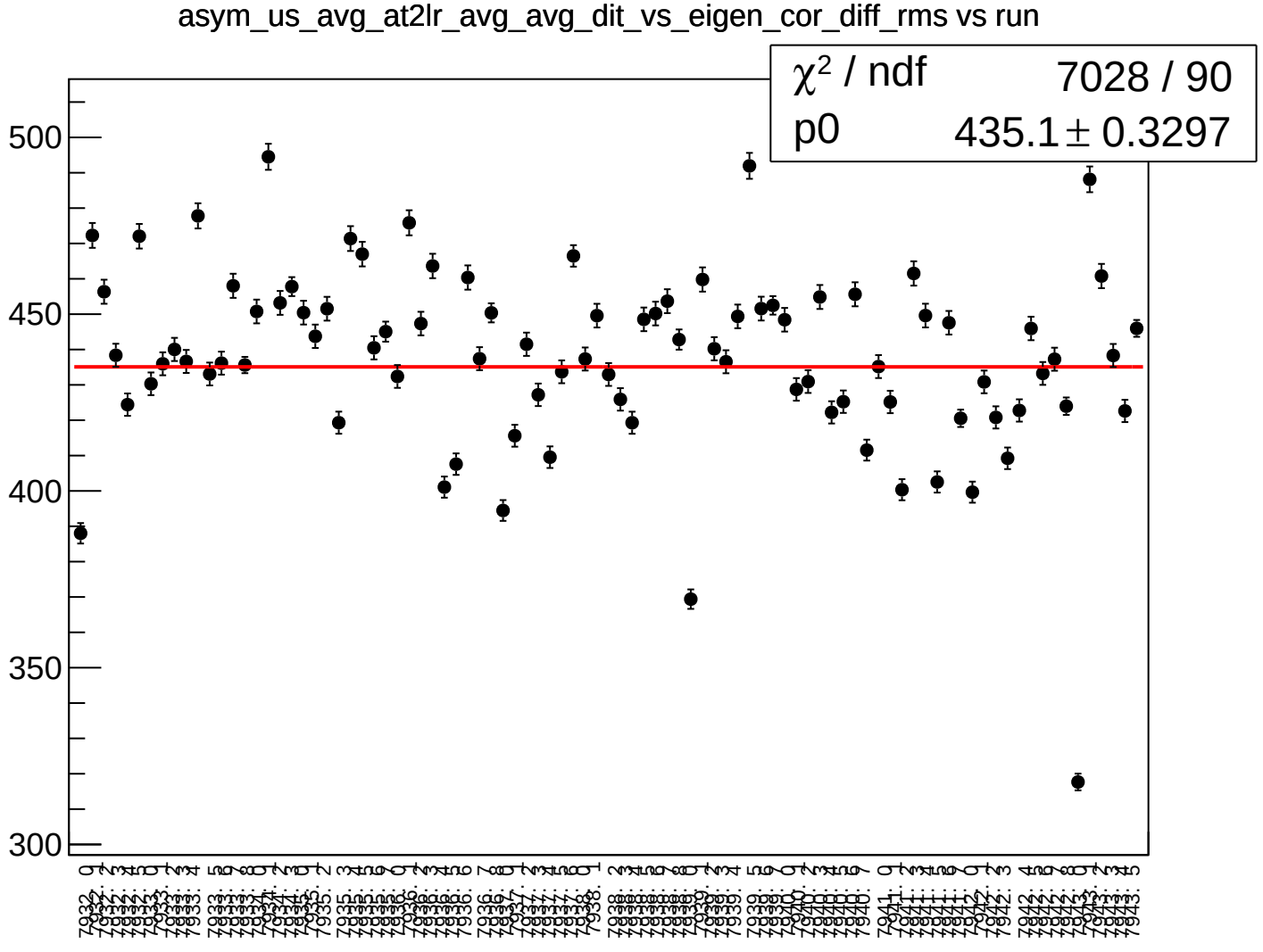

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.16 / 90
p0 −0.1945 ± 0.4663
pull
Entries 91
Mean −63.5
Std Dev 0

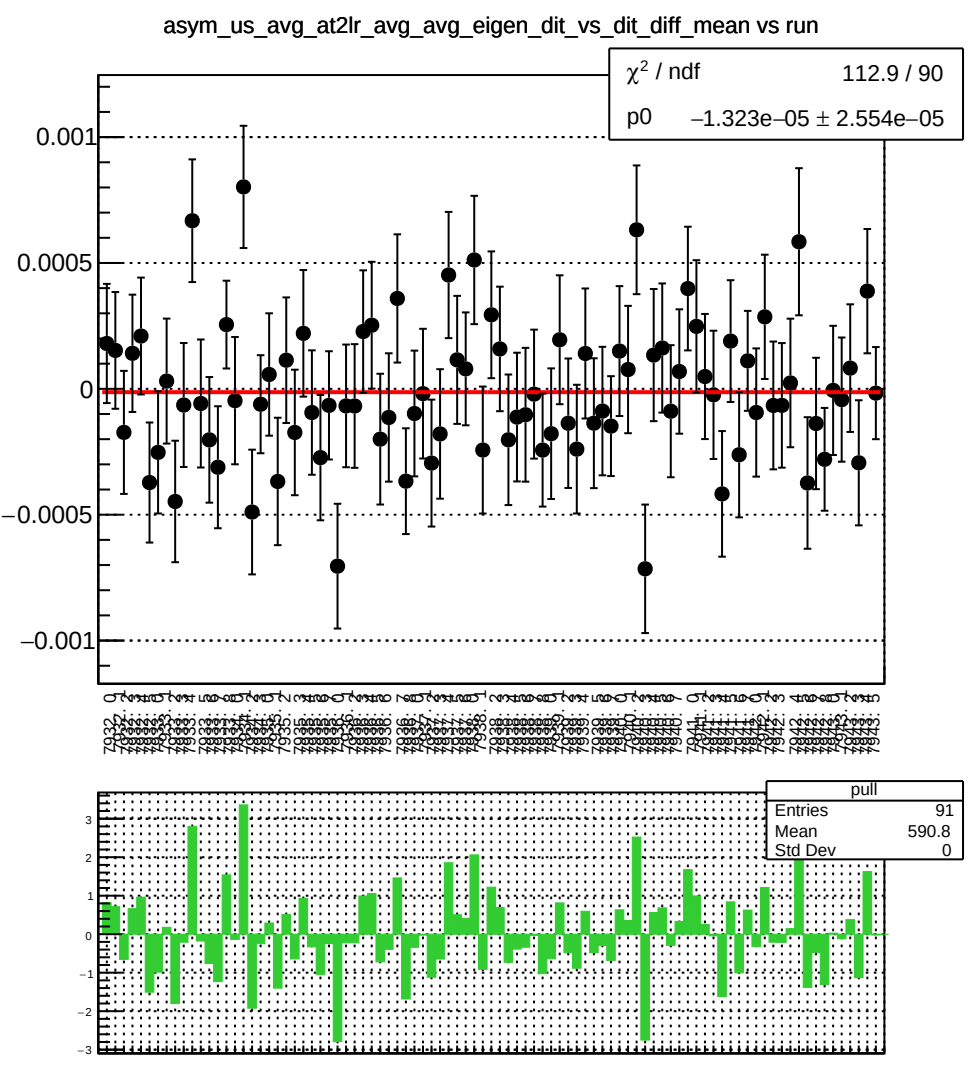

pull1D
Entries 91
Mean 0.008103
Std Dev 1.017

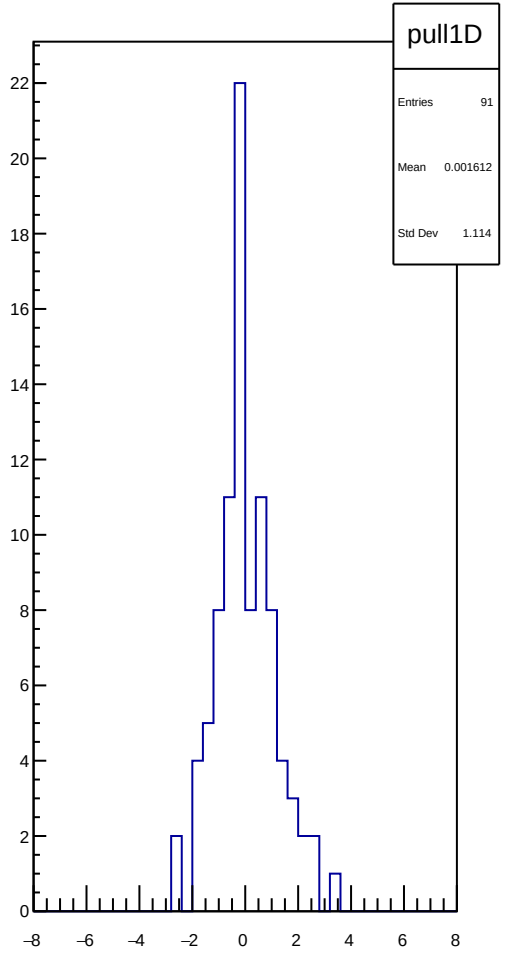

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7028 / 90
p0 435.1 ± 0.3297
500
450
400
350
300

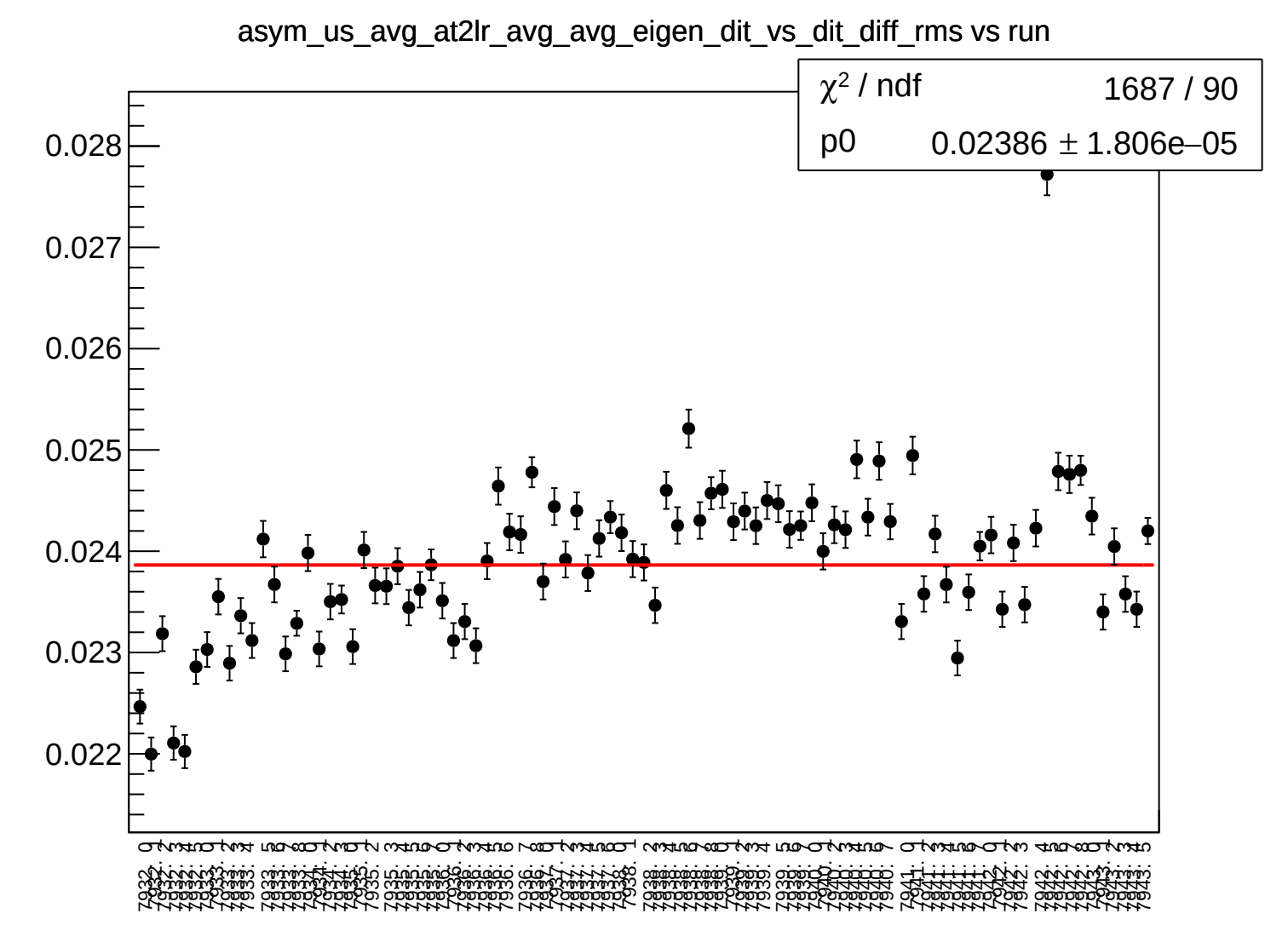

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.16 / 90
p0 −0.1945 ± 0.4663
pull
Entries 91
Mean −63.5
Std Dev 0

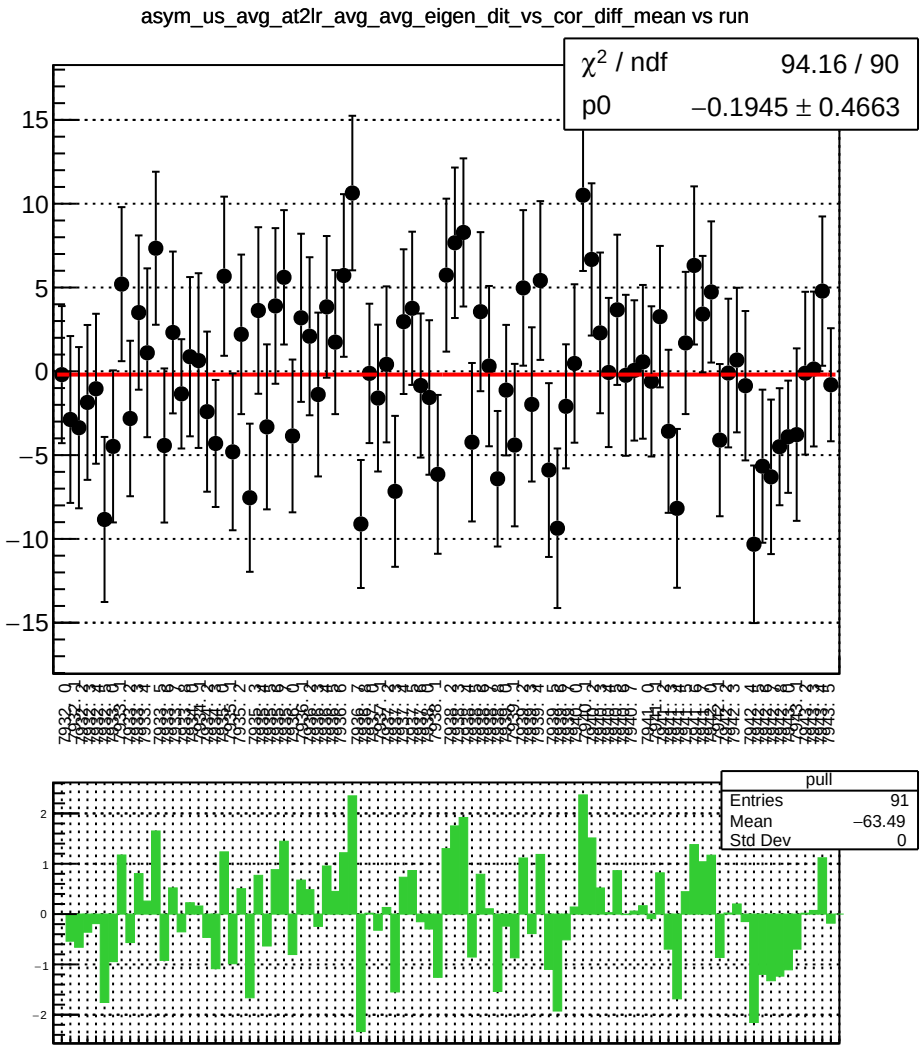

pull1D
Entries 91
Mean 0.008103
Std Dev 1.017

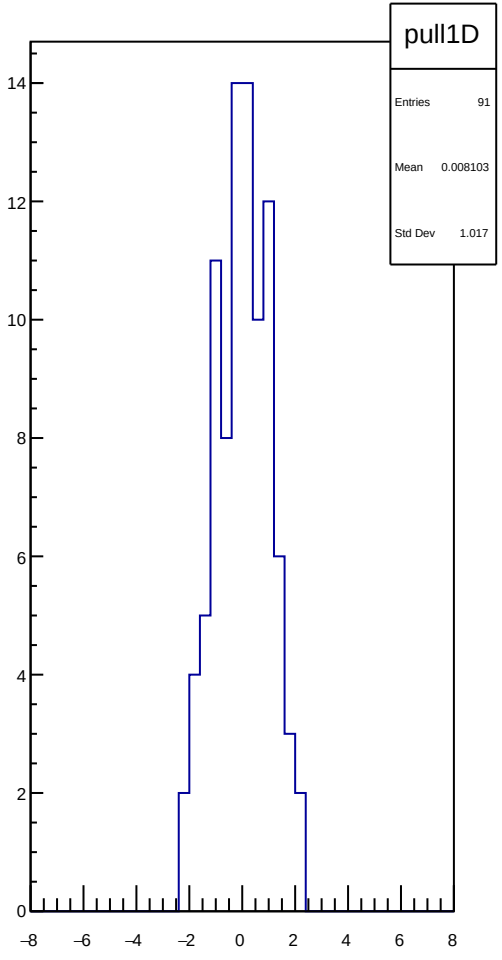

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7028 / 90
p0 435.1 ± 0.3297
500
450
400
350
300

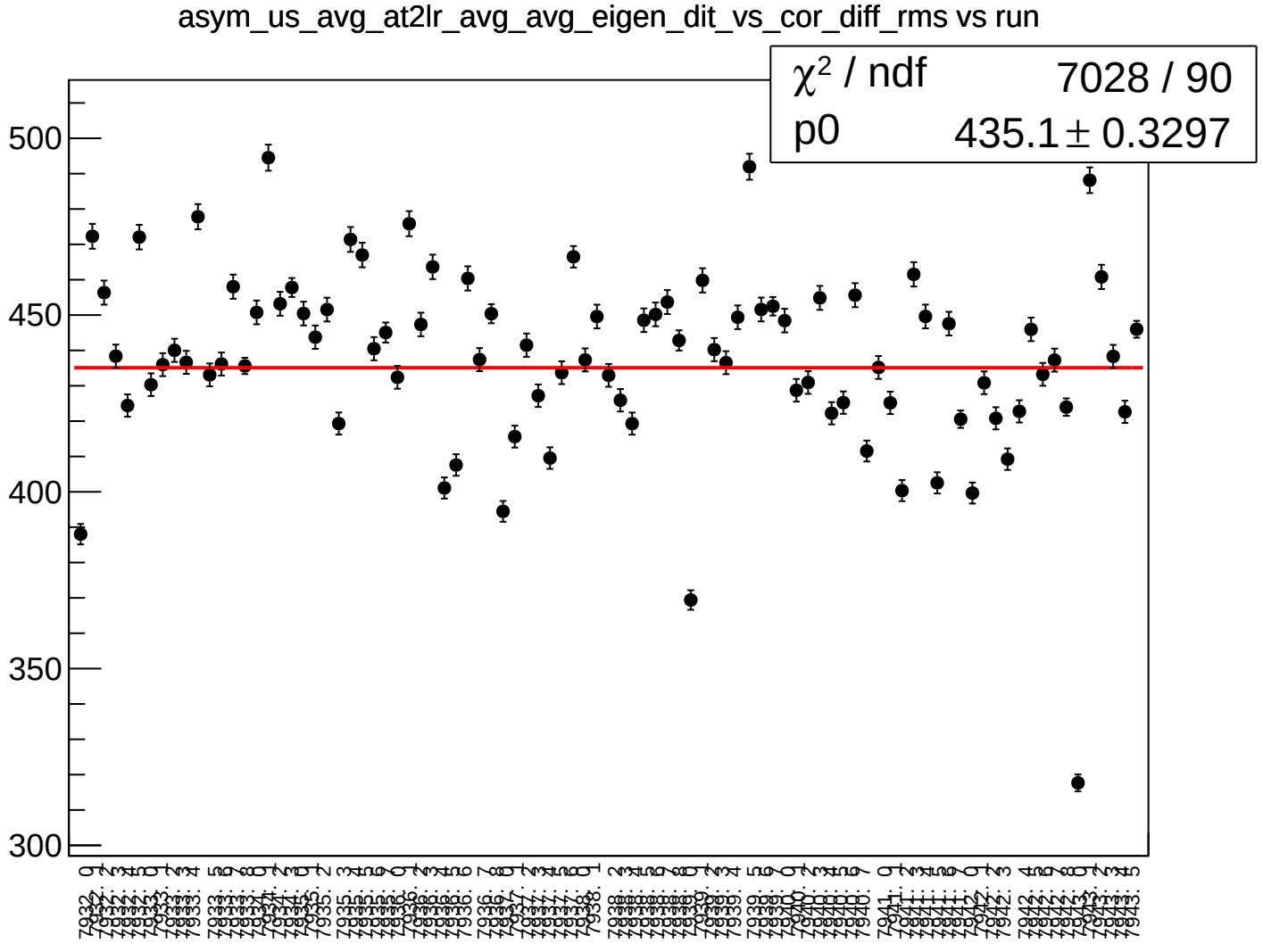

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 112.9 / 90
p0 −1.323e−05 ± 2.554e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 590.8
Std Dev 0
3
2
1
0
−1
−2
−3

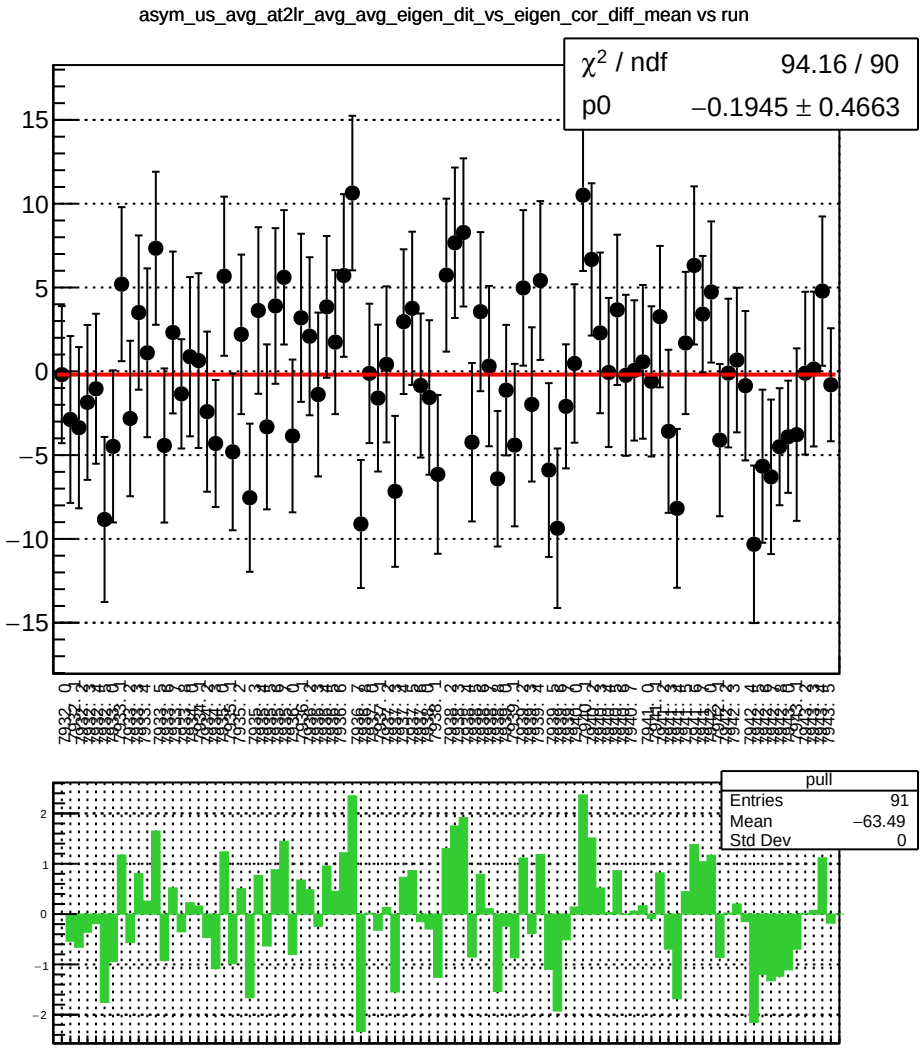

pull1D
Entries 91
Mean 0.001612
Std Dev 1.114
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

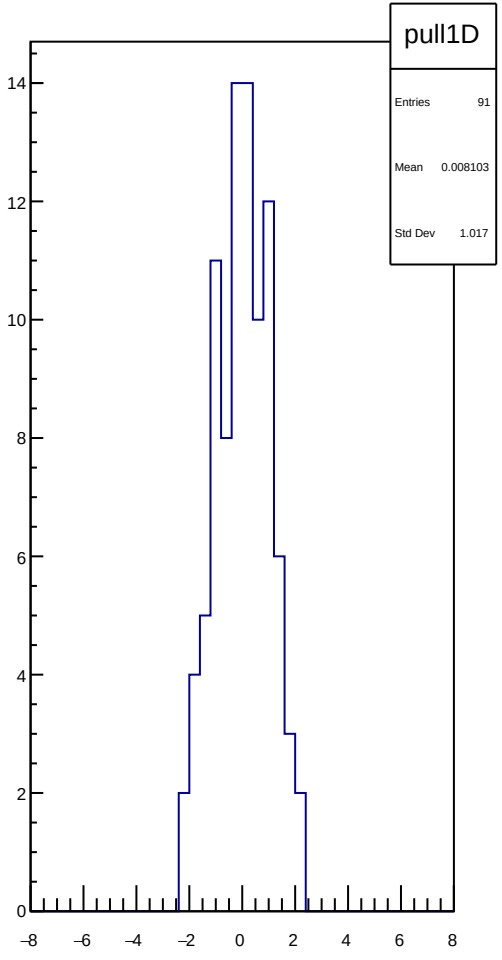

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1687 / 90
p0 0.02386 ± 1.806e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022

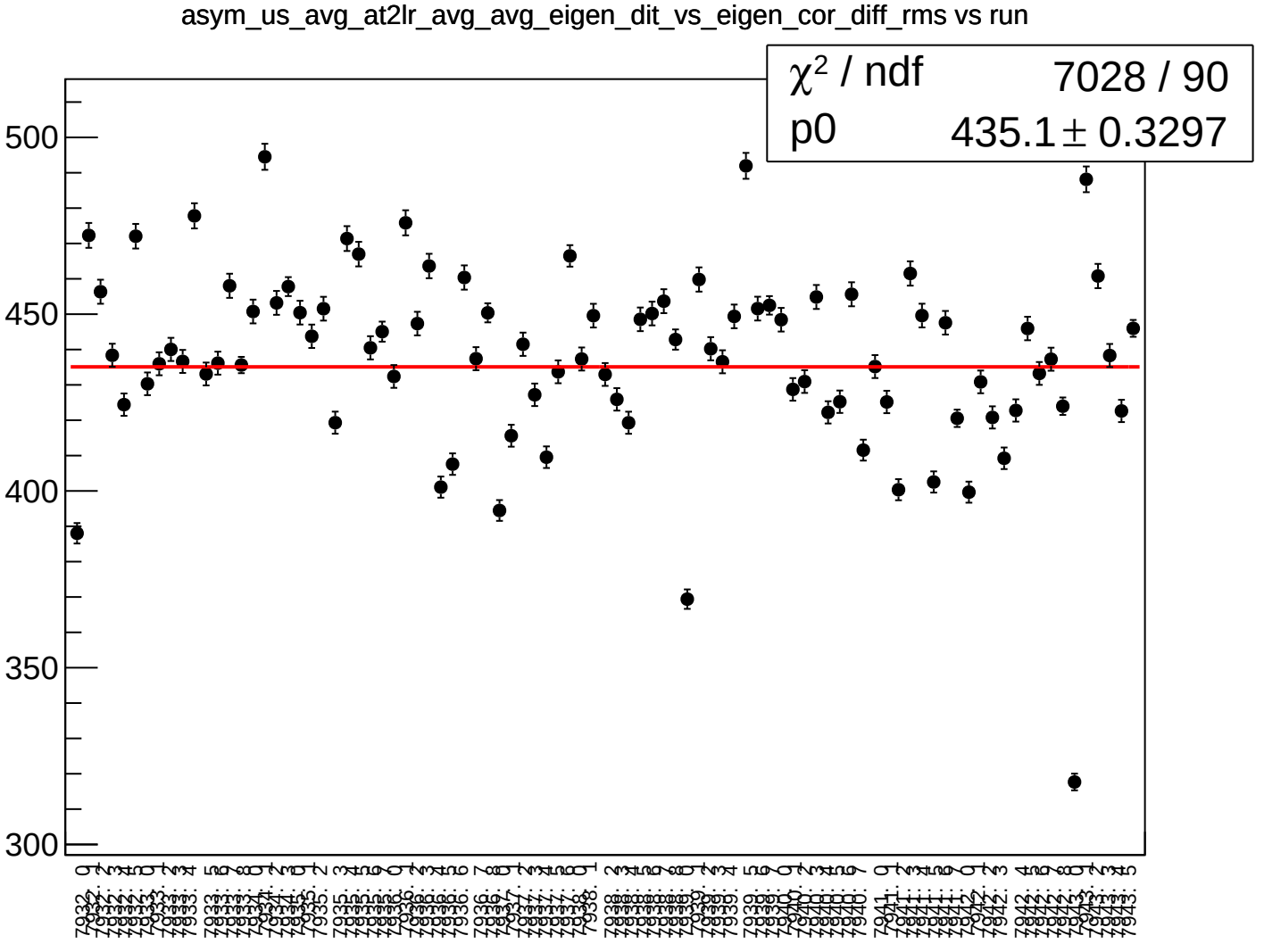

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.16 / 90
p0 −0.1945 ± 0.4663
pull
Entries 91
Mean −63.49
Std Dev 0

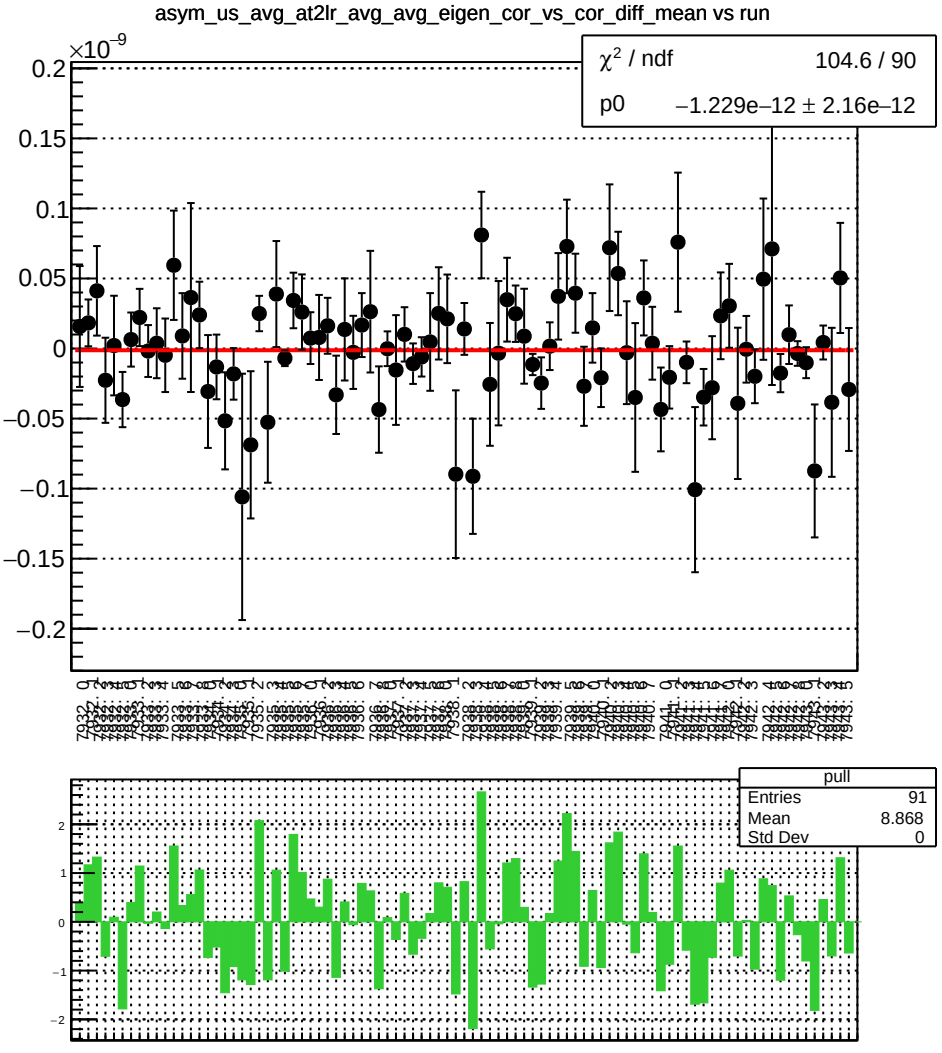

pull1D
Entries 91
Mean 0.008103
Std Dev 1.017

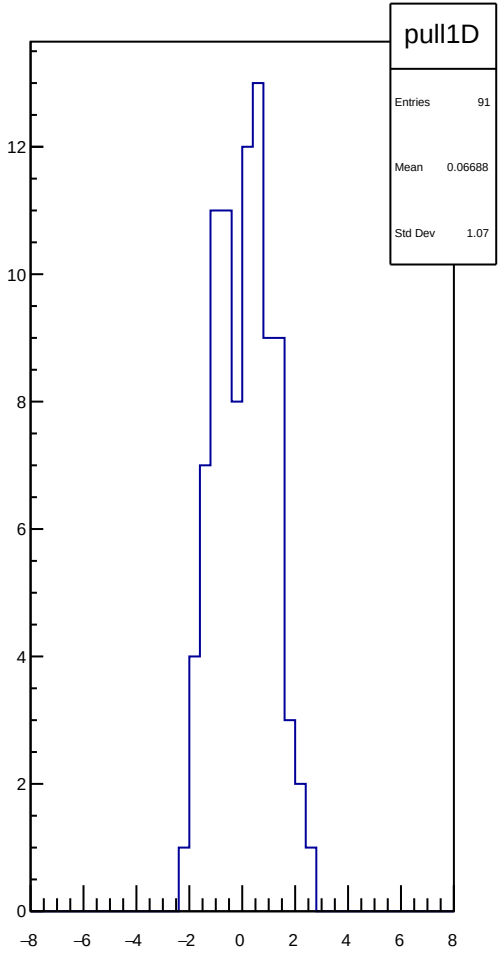

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7028 / 90
p0 435.1 ± 0.3297
500
450
400
350
300

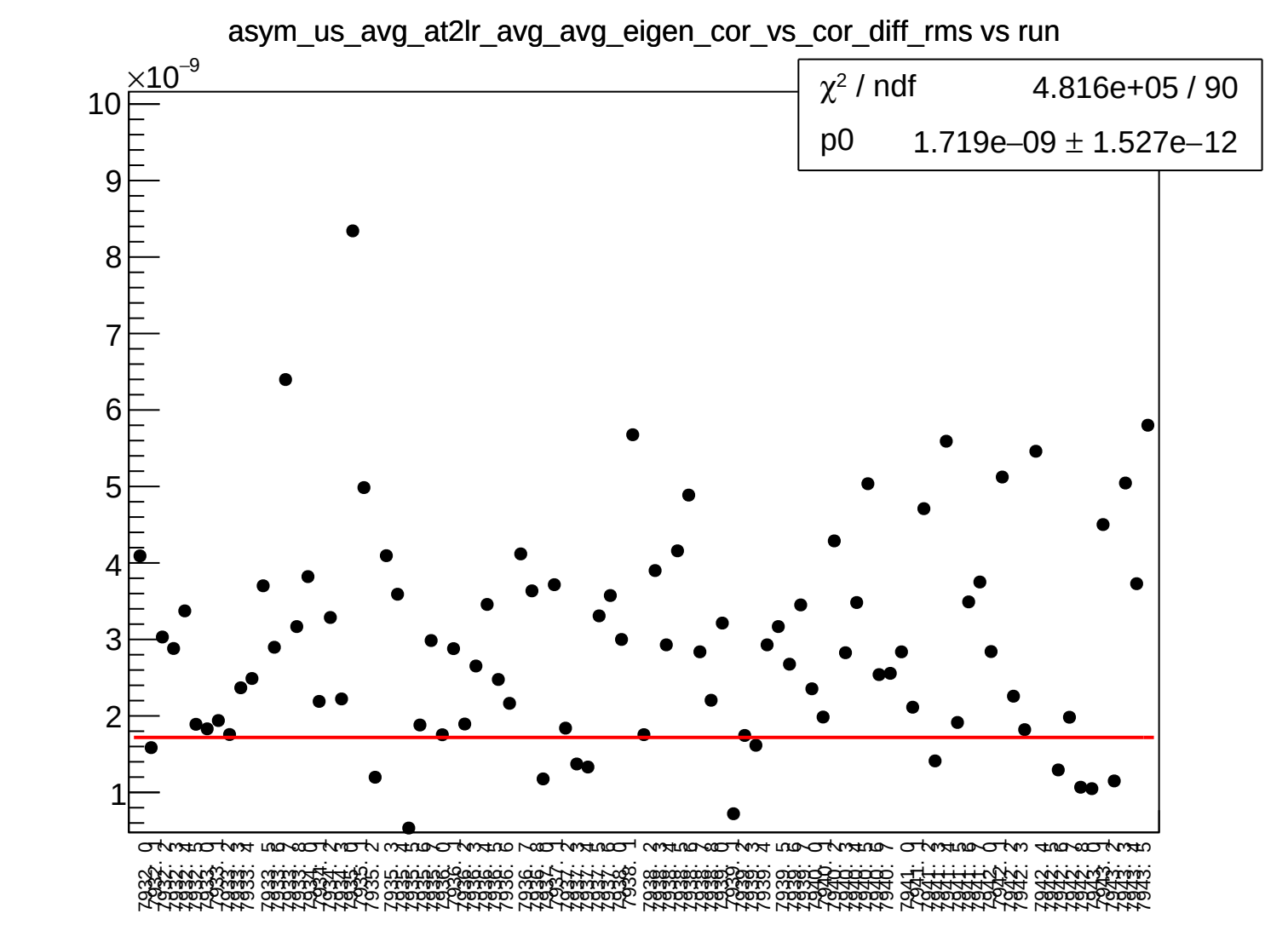

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.16 / 90
p0 −0.1945 ± 0.4663
pull
Entries 91
Mean −63.49
Std Dev 0

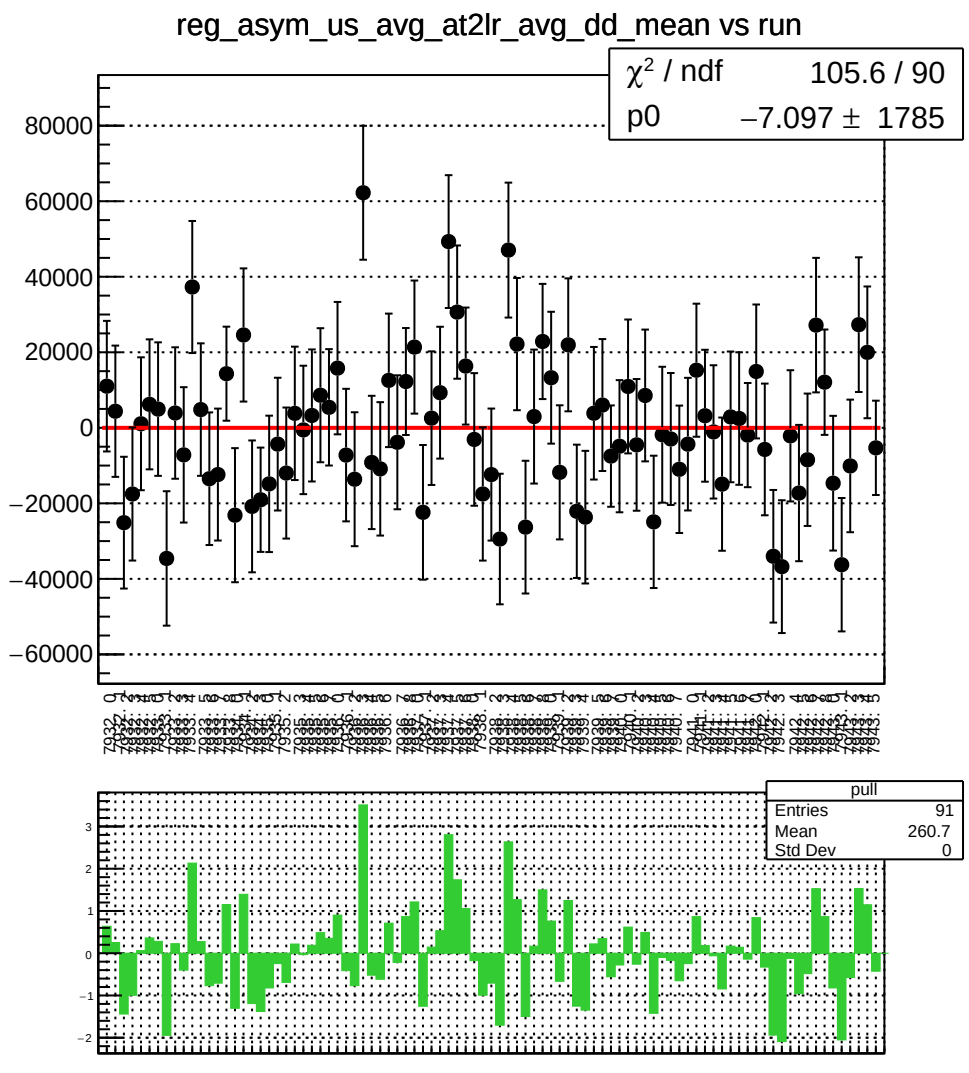

pull1D
Entries 91
Mean 0.008103
Std Dev 1.017

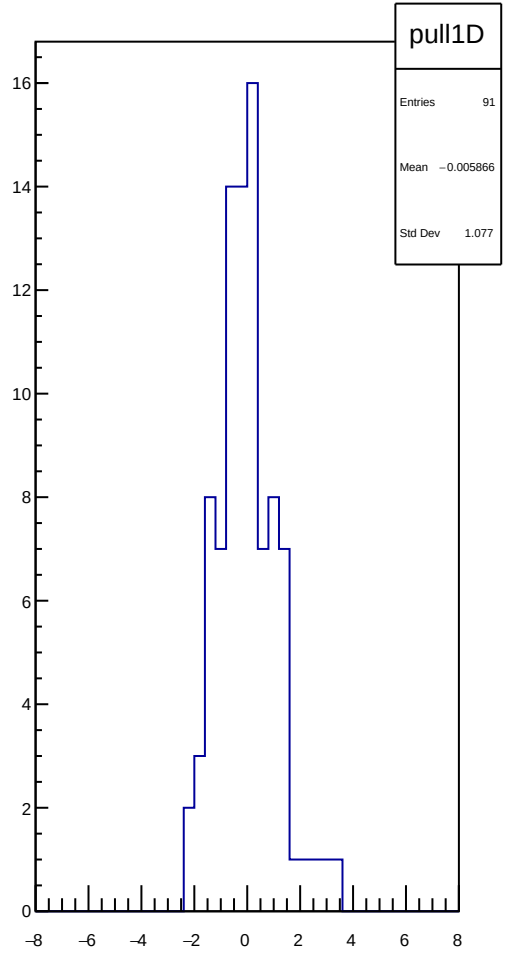

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7028 / 90
p0 435.1 ± 0.3297
500
450
400
350
300

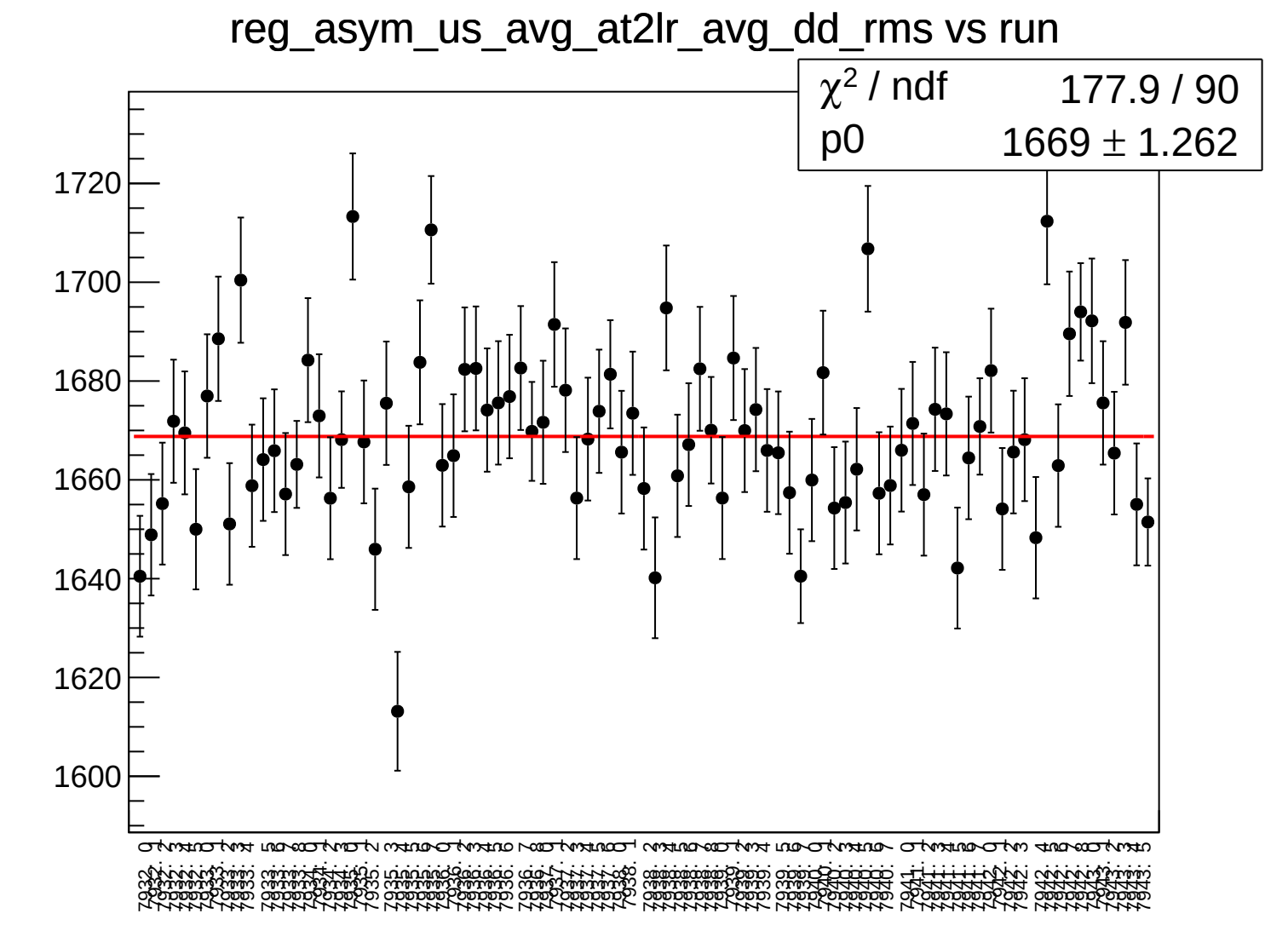

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 104.6 / 90
p0 −1.229e−12 ± 2.16e−12
pull
Entries 91
Mean 8.868
Std Dev 0

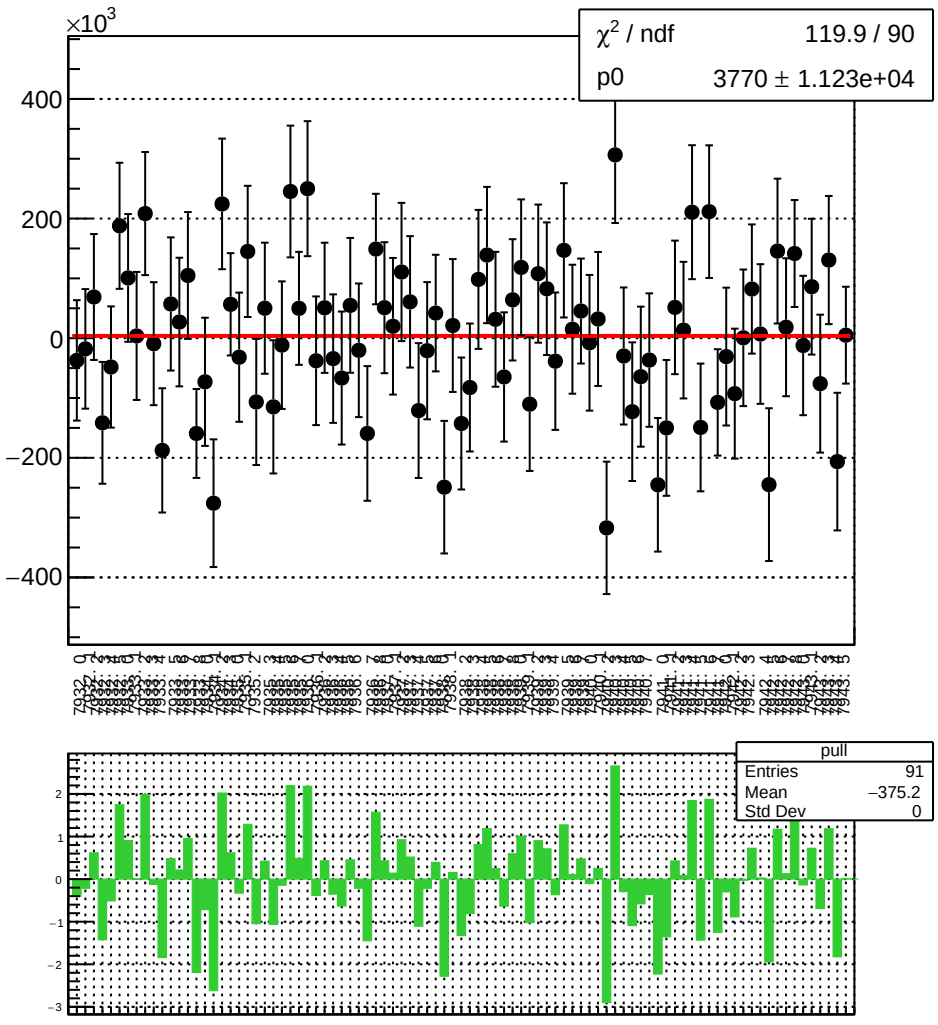

pull1D
Entries 91
Mean 0.06688
Std Dev 1.07

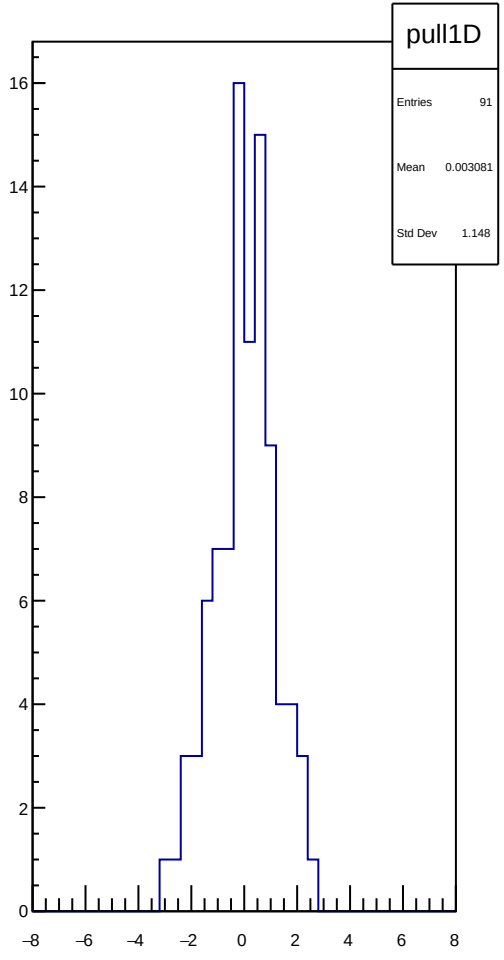

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
10
9
8
7
6
5
4
3
2
1
χ² / ndf 4.816e+05 / 90
p0 1.719e−09 ± 1.527e−12

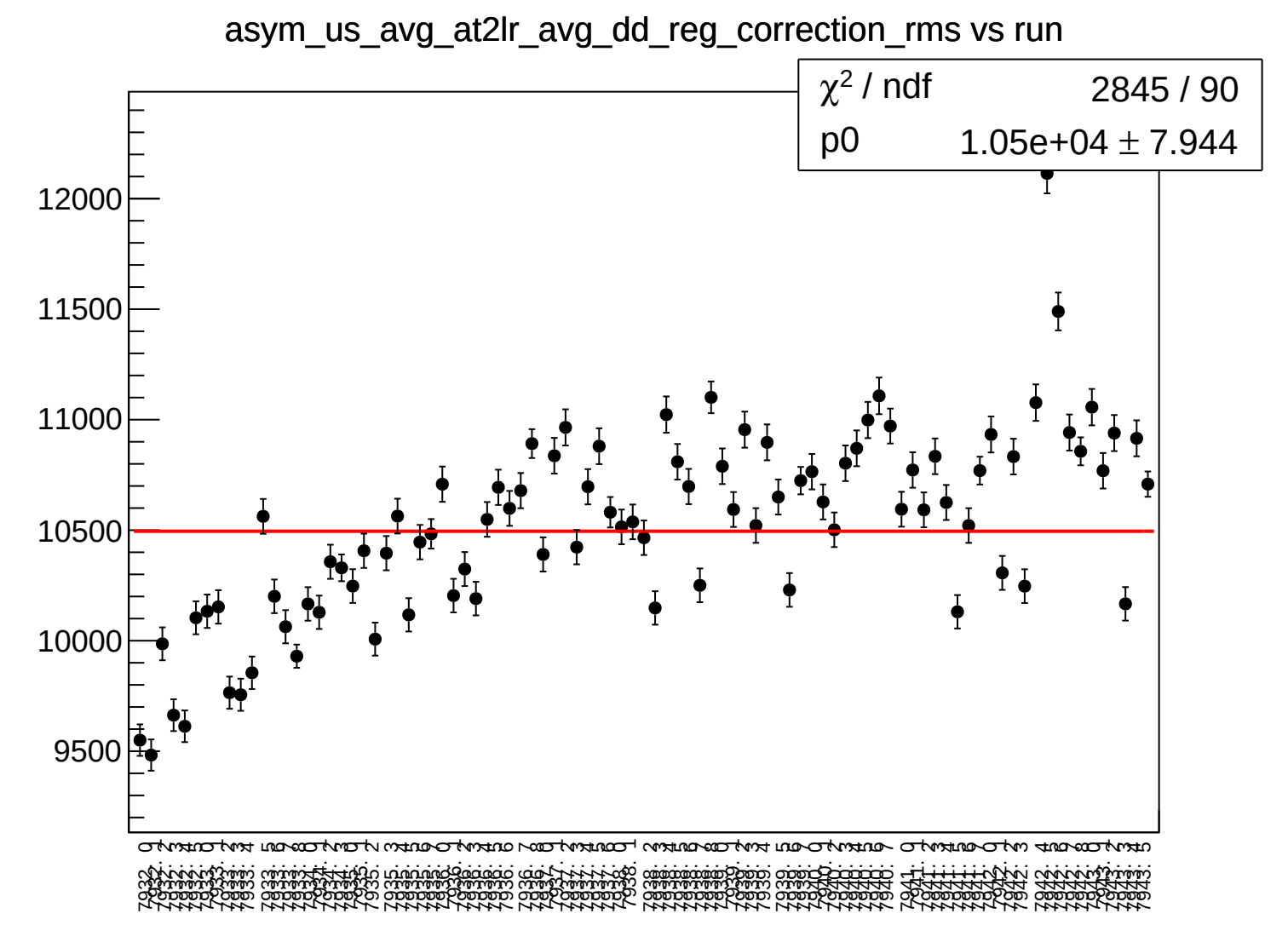

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105.6 / 90
p0 −7.097 ± 1785
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 260.7
Std Dev 0
3
2
1
0
−1
−2

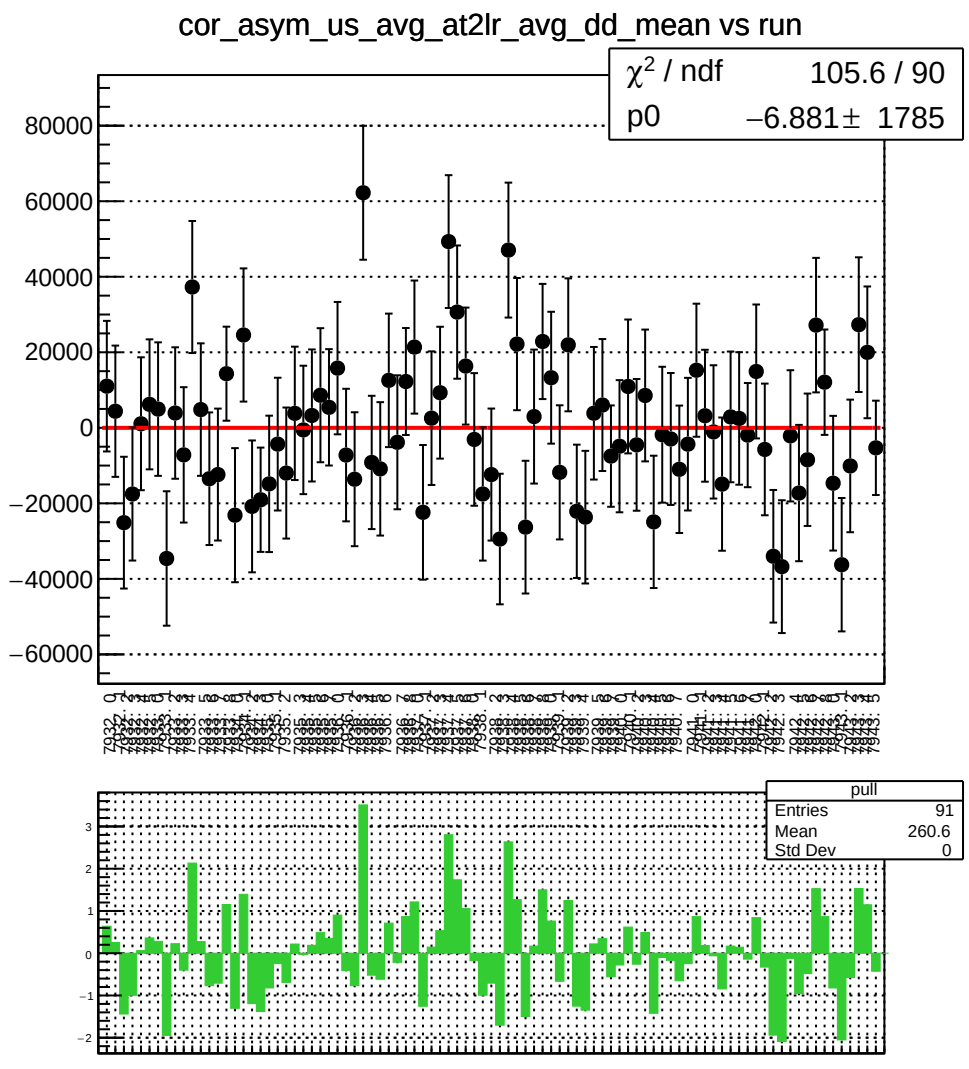

pull1D
Entries 91
Mean −0.005866
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

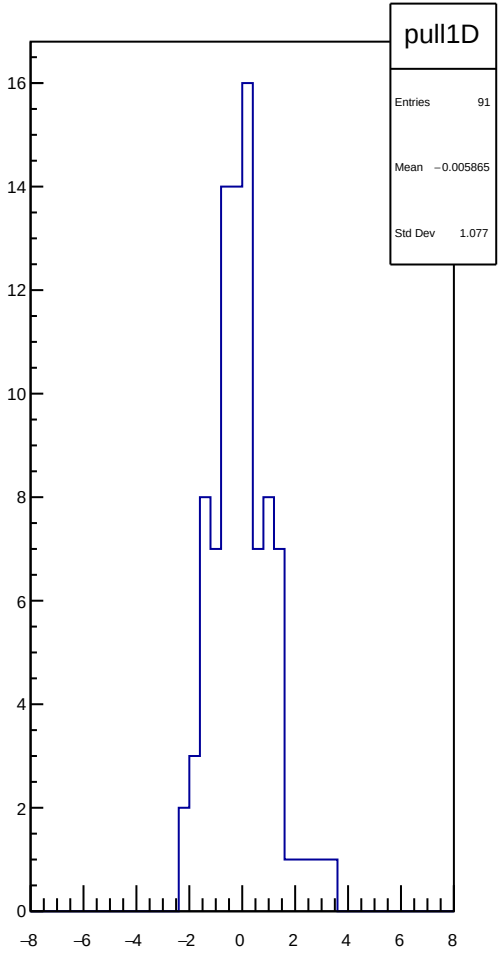

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 177.9 / 90
p0 1669 ± 1.262
1720
1700
1680
1660
1640
1620
1600

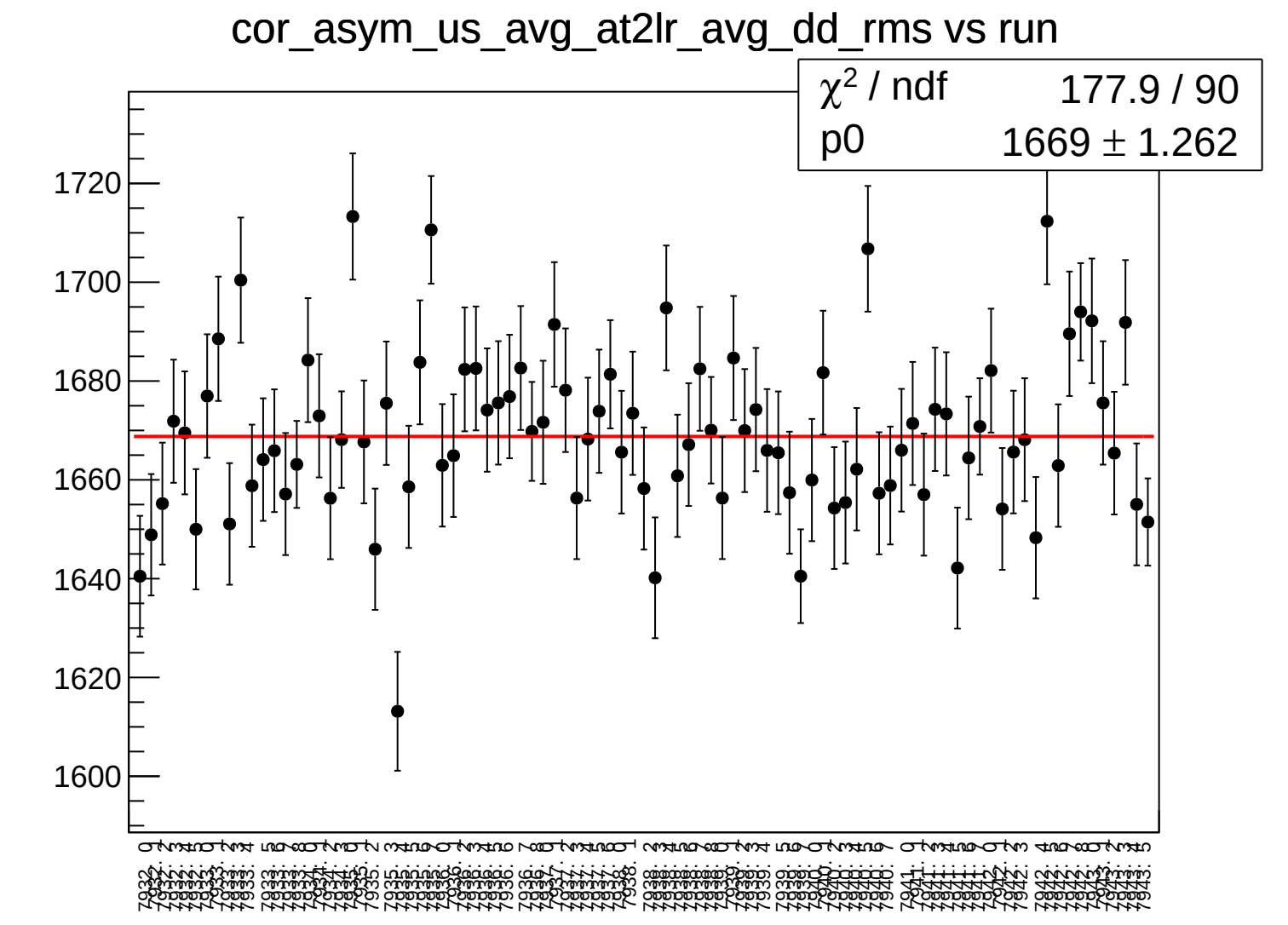

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 3770 ± 1.123e+04
400
200
0
−200
−400
pull
Entries 91
Mean −375.2
Std Dev 0
2
1
0
−1
−2
−3

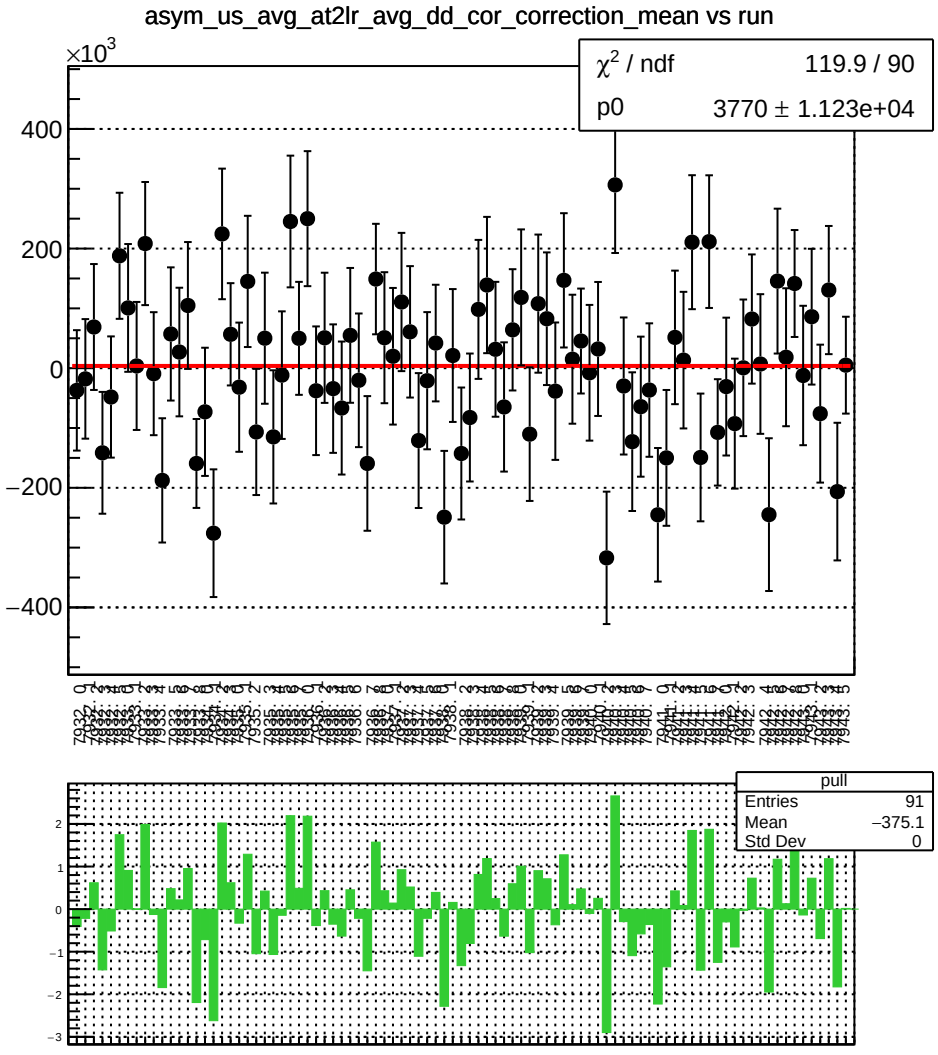

pull1D
Entries 91
Mean 0.003081
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

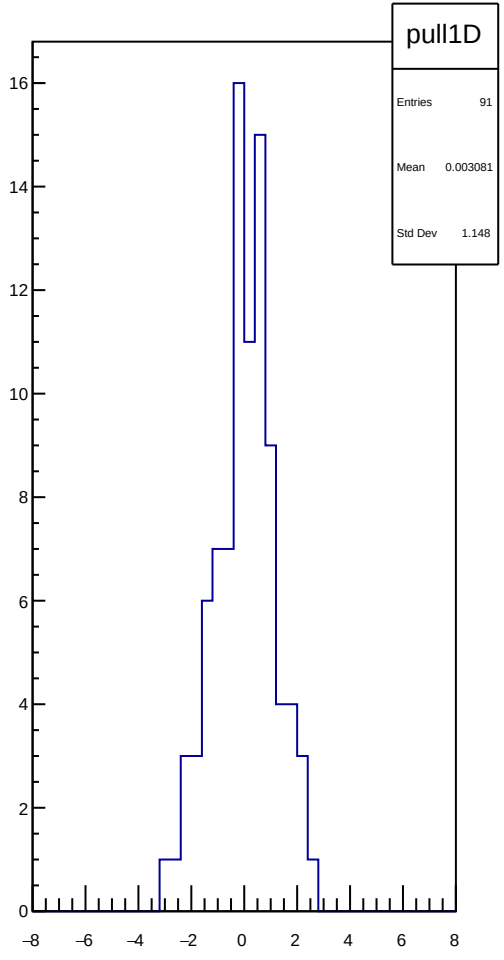

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2845 / 90
p0 1.05e+04 ± 7.944
12000
11500
11000
10500
10000
9500

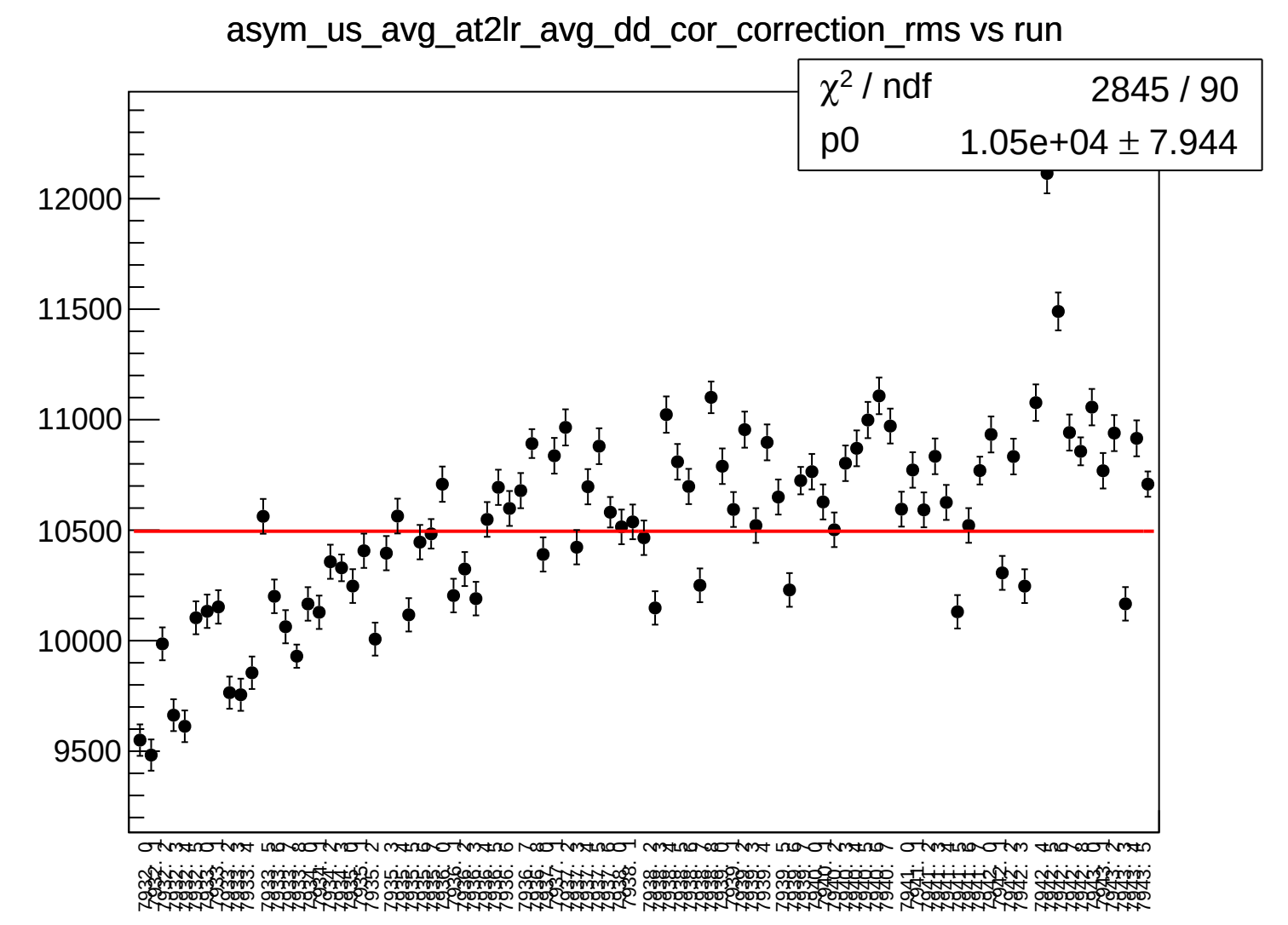

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105.6 / 90
p0 −6.881± 1785
pull
Entries 91
Mean 260.6
Std Dev 0

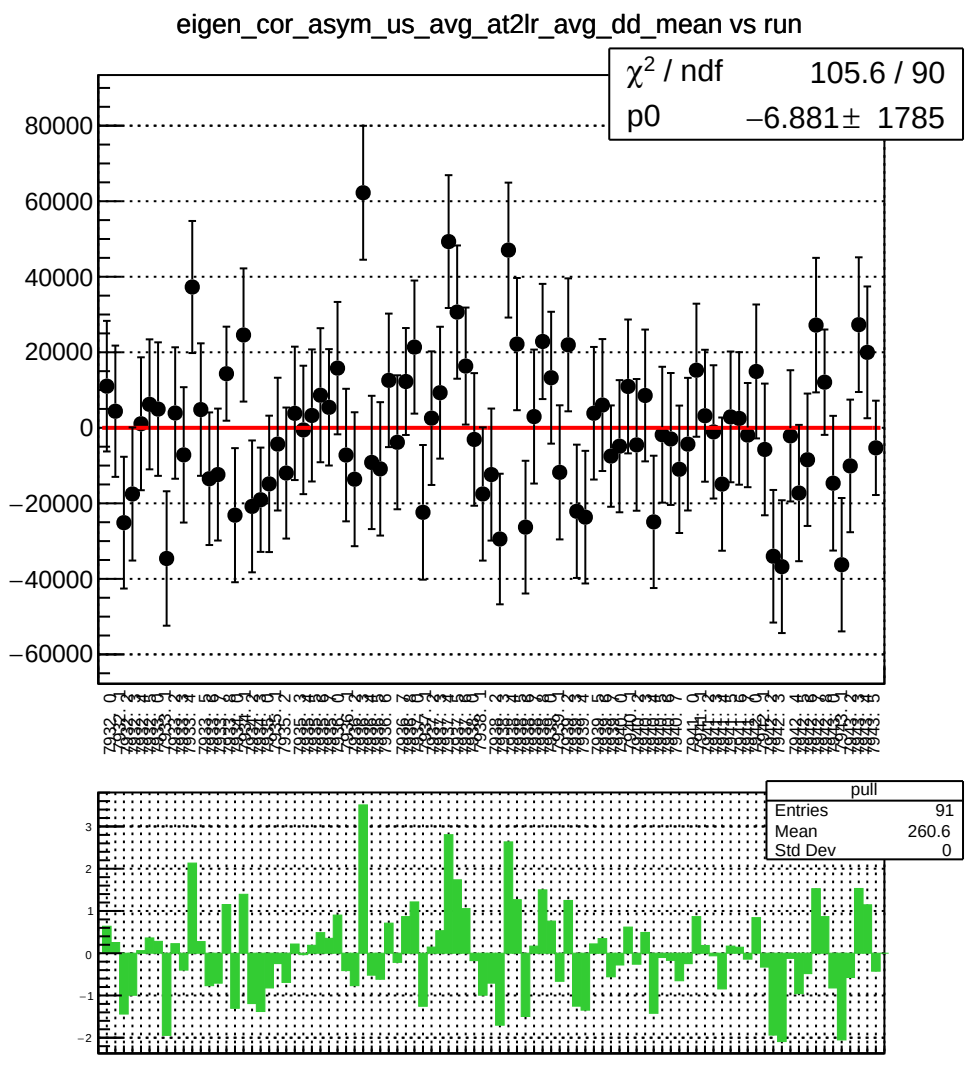

pull1D
Entries 91
Mean −0.005865
Std Dev 1.077

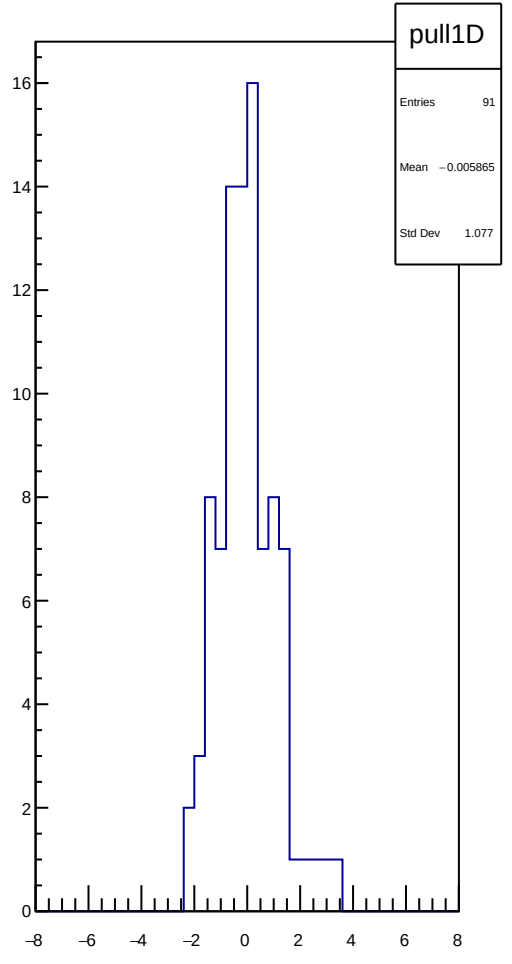

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 177.9 / 90
p0 1669 ± 1.262
1720
1700
1680
1660
1640
1620
1600

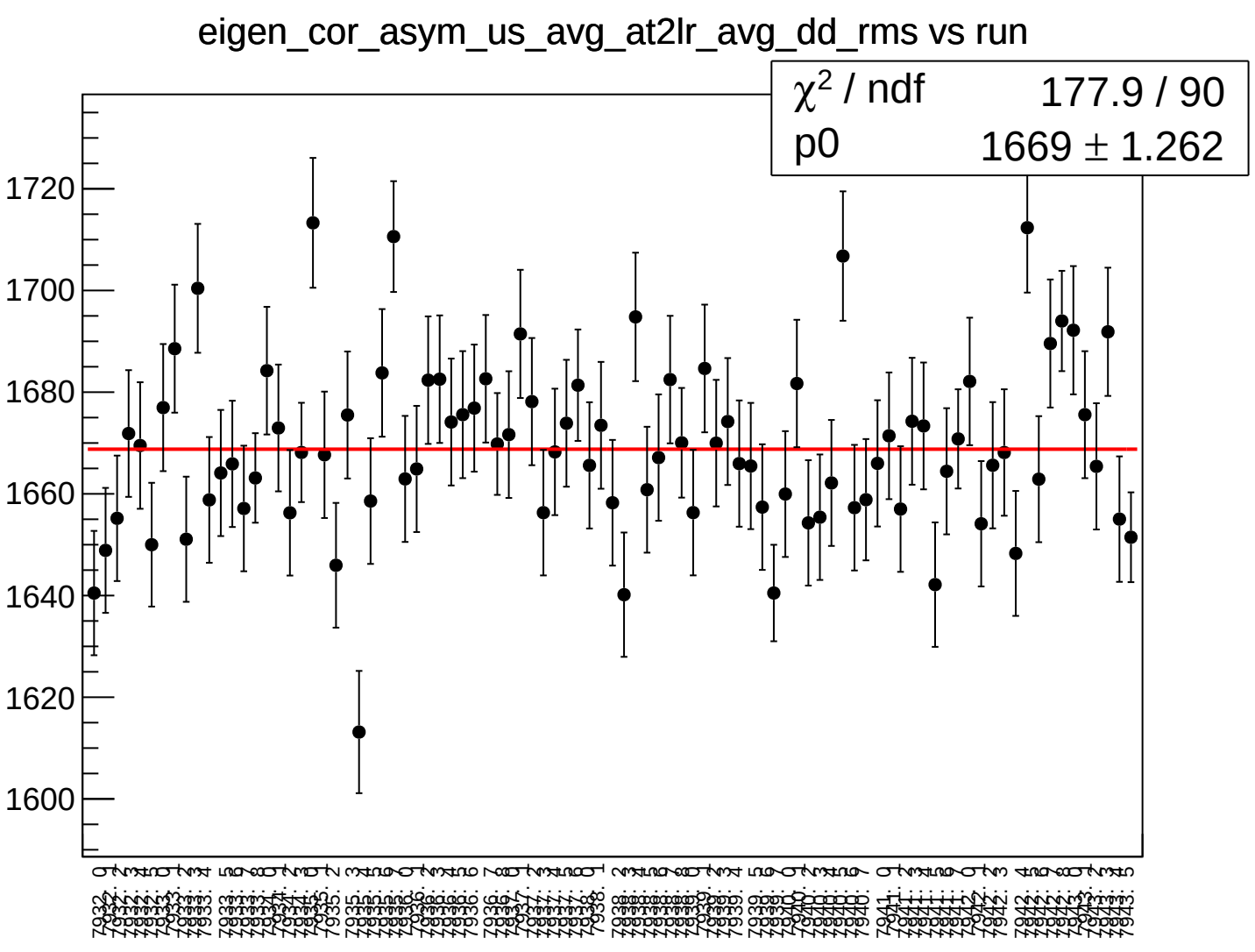

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 3770 ± 1.123e+04
400
200
0
−200
−400
pull
Entries 91
Mean −375.1
Std Dev 0
2
1
0
−1
−2
−3

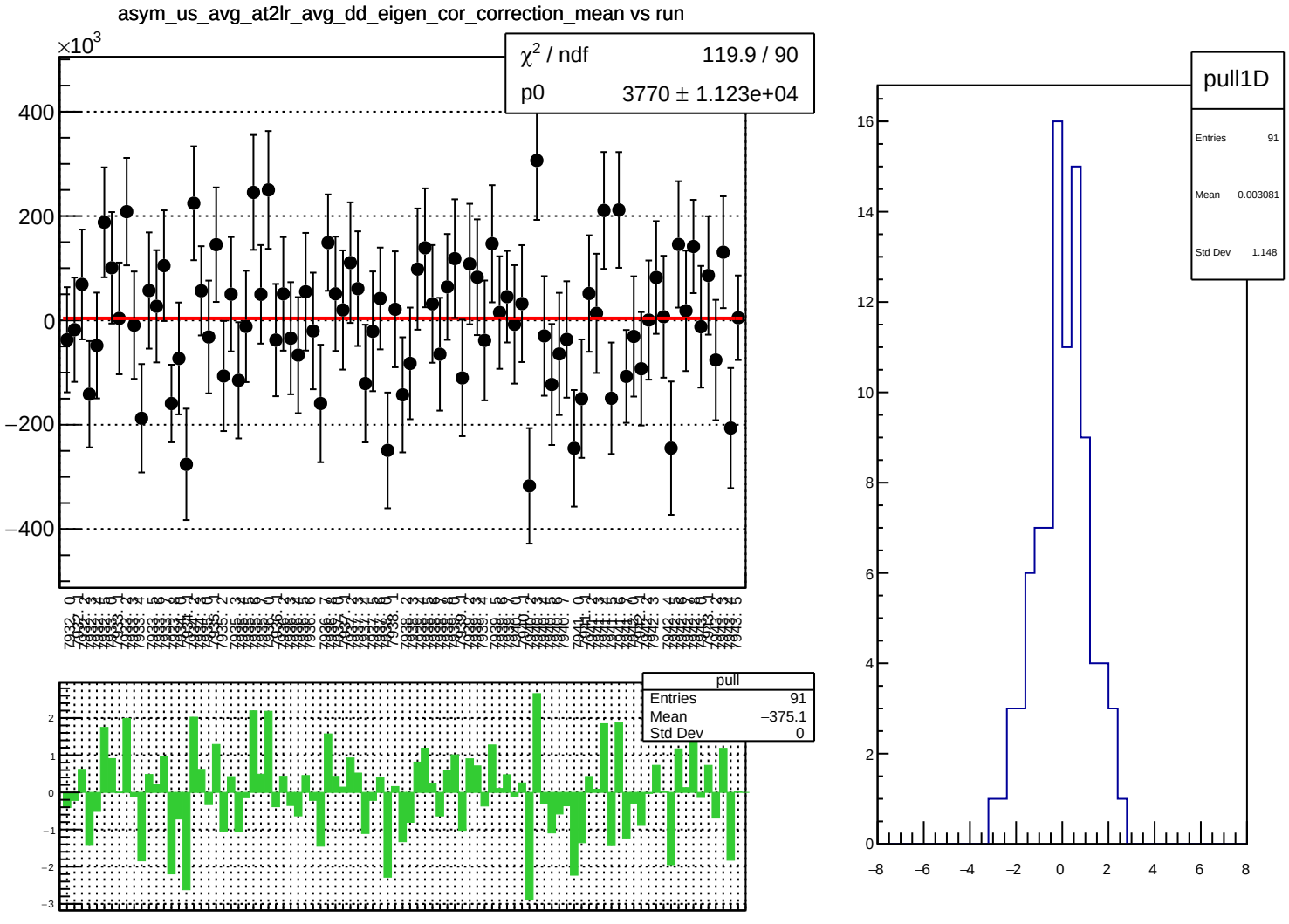

pull1D
Entries 91
Mean 0.003081
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

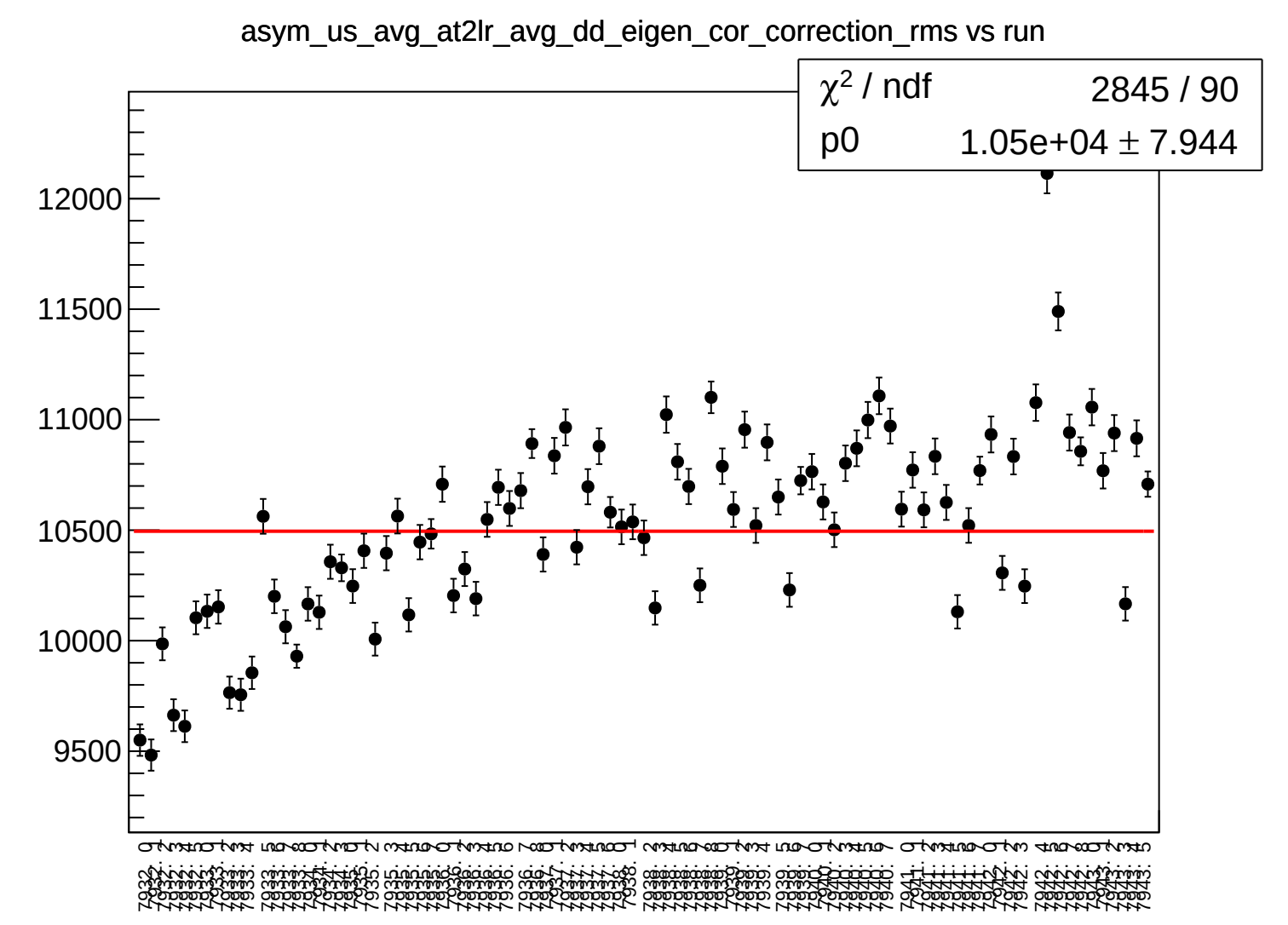

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2845 / 90
p0 1.05e+04 ± 7.944
12000
11500
11000
10500
10000
9500

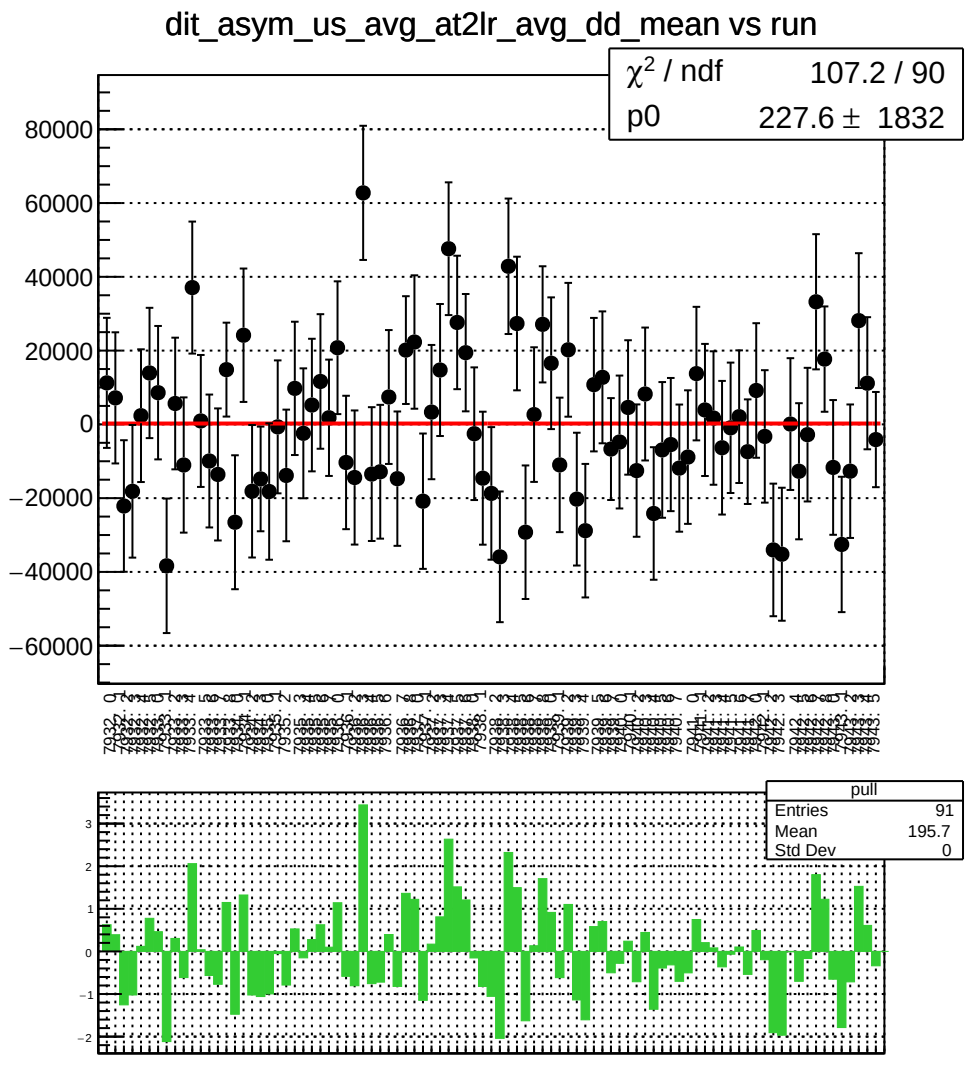

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105.6 / 90
p0 −6.881± 1785
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 260.6
Std Dev 0
3
2
1
0
−1
−2

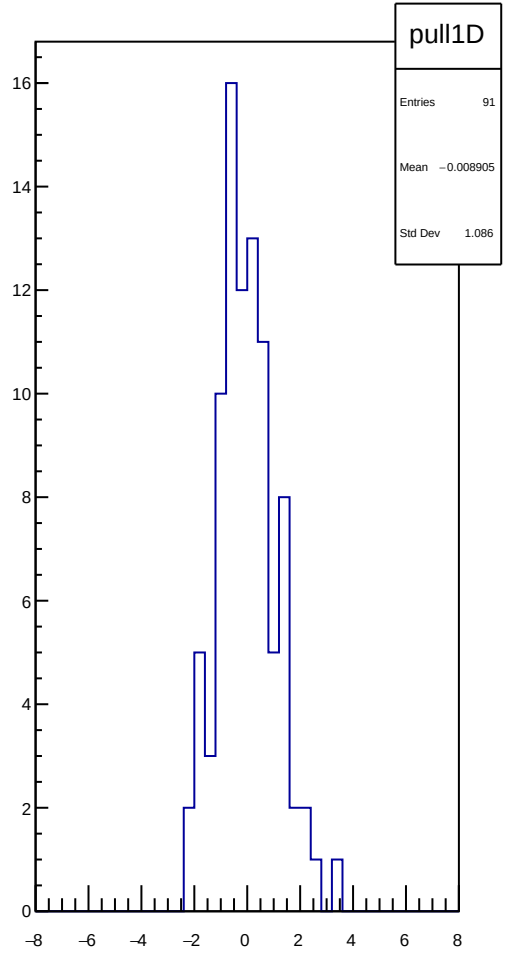

pull1D
Entries 91
Mean −0.005865
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

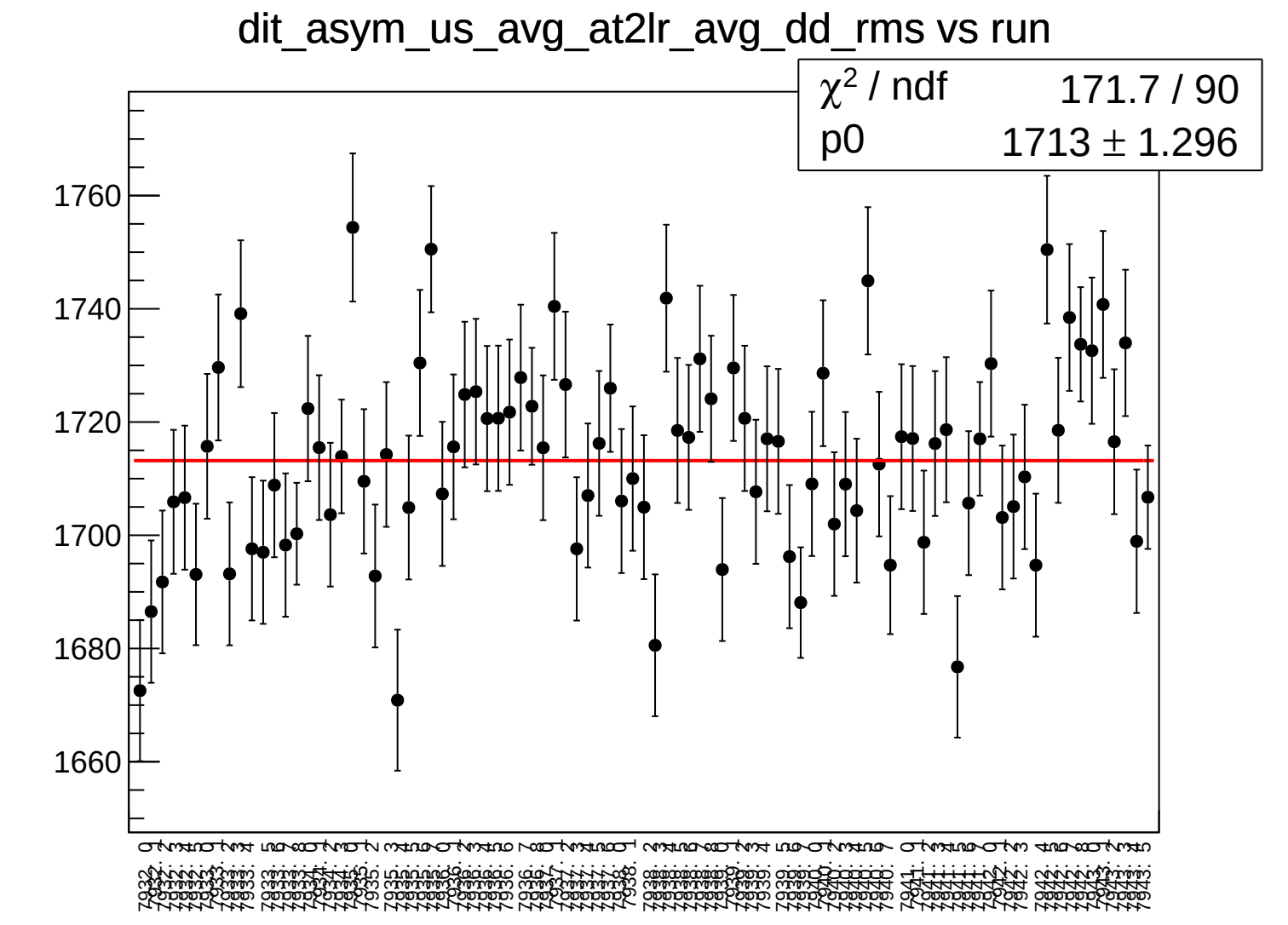

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 177.9 / 90
p0 1669 ± 1.262
1720
1700
1680
1660
1640
1620
1600

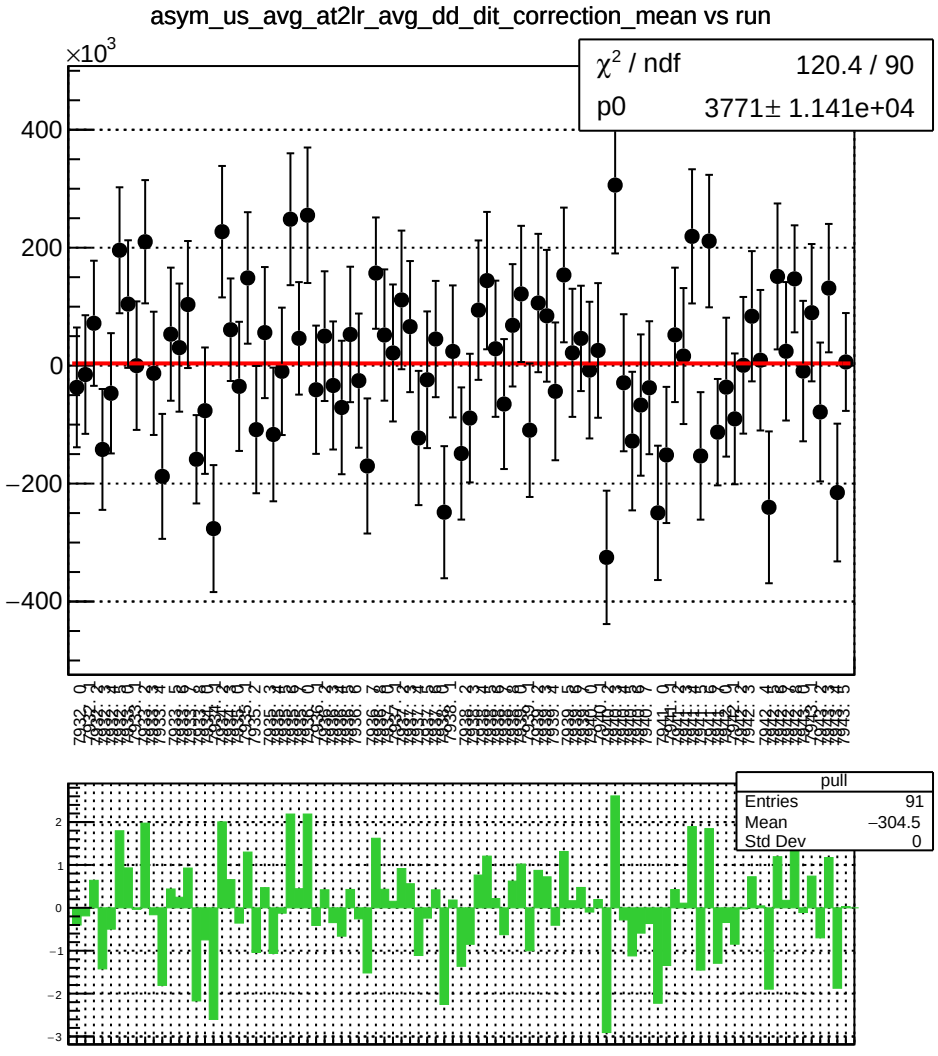

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 119.9 / 90
p0 3770 ± 1.123e+04
400
200
0
−200
−400
pull
Entries 91
Mean −375.1
Std Dev 0
pull1D
Entries 91
Mean 0.003081
Std Dev 1.148

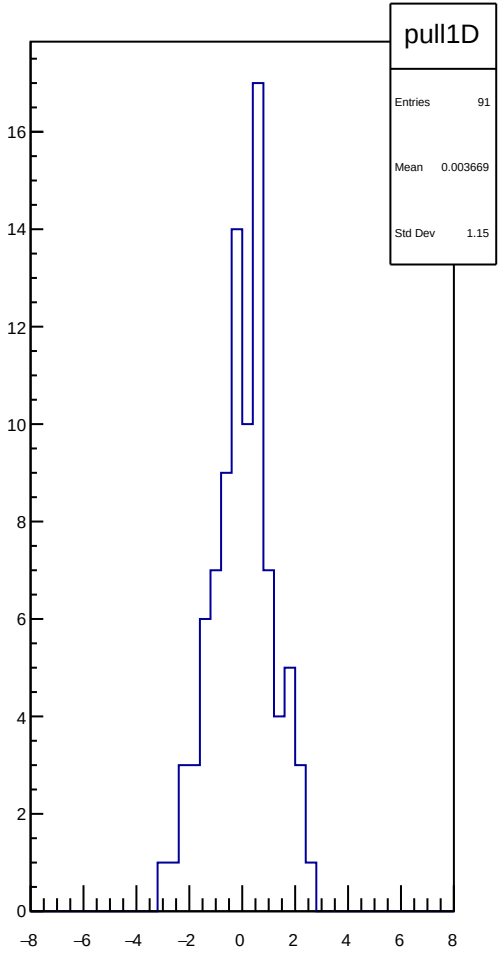

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2845 / 90
p0 1.05e+04 ± 7.944
12000
11500
11000
10500
10000
9500

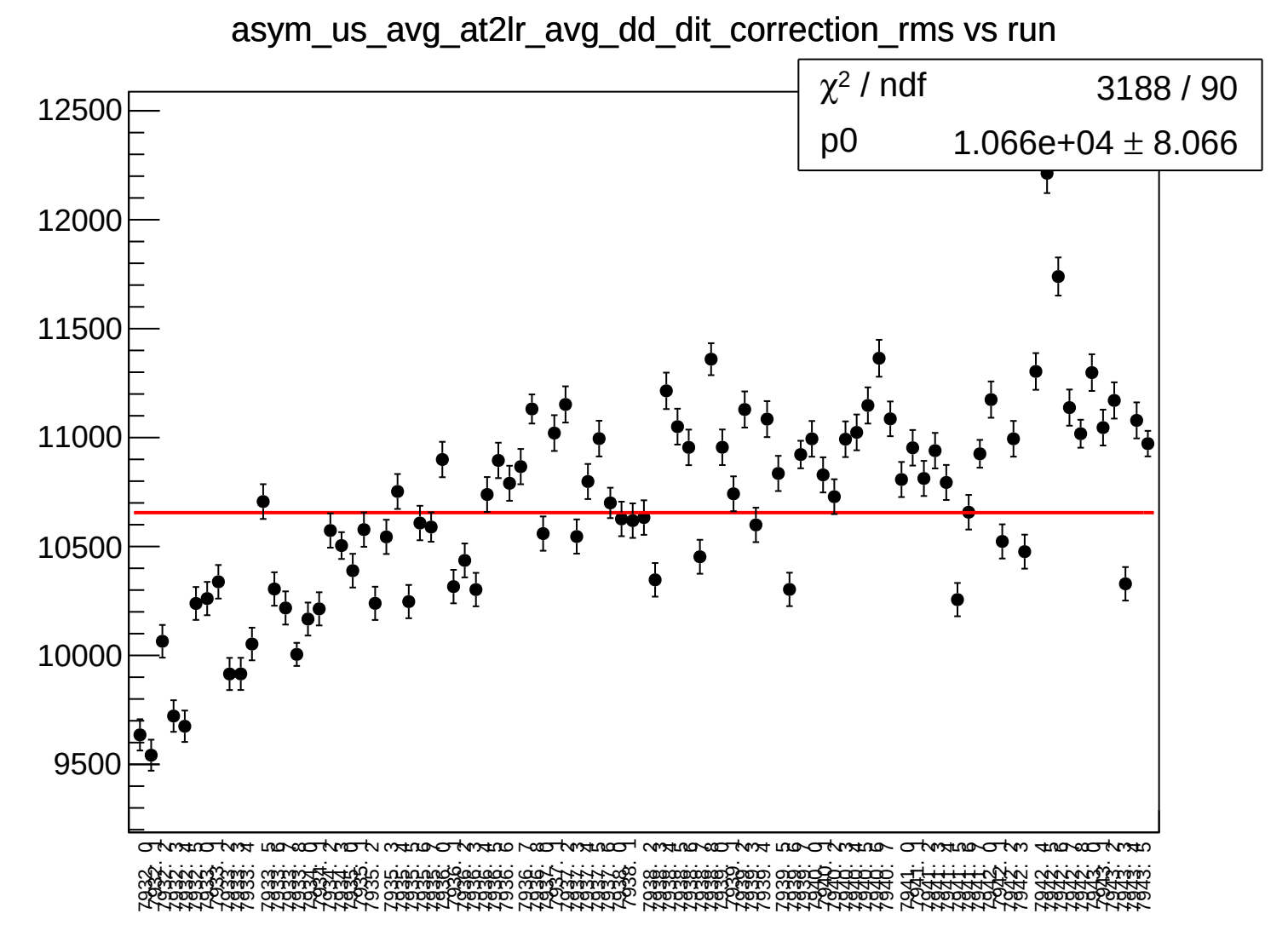

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 107.2 / 90
p0 227.6 ± 1832
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 195.7
Std Dev 0
3
2
1
0
−1
−2

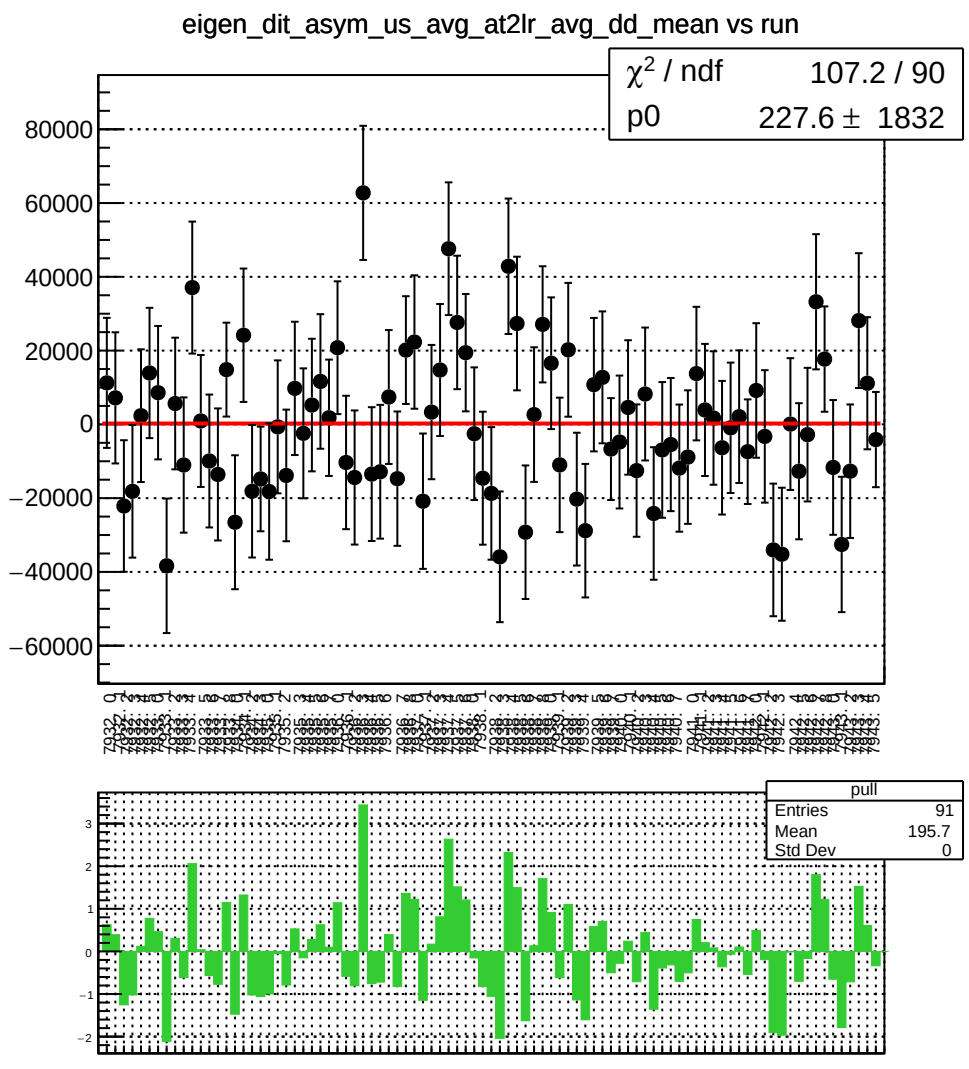

pull1D
Entries 91
Mean −0.008905
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

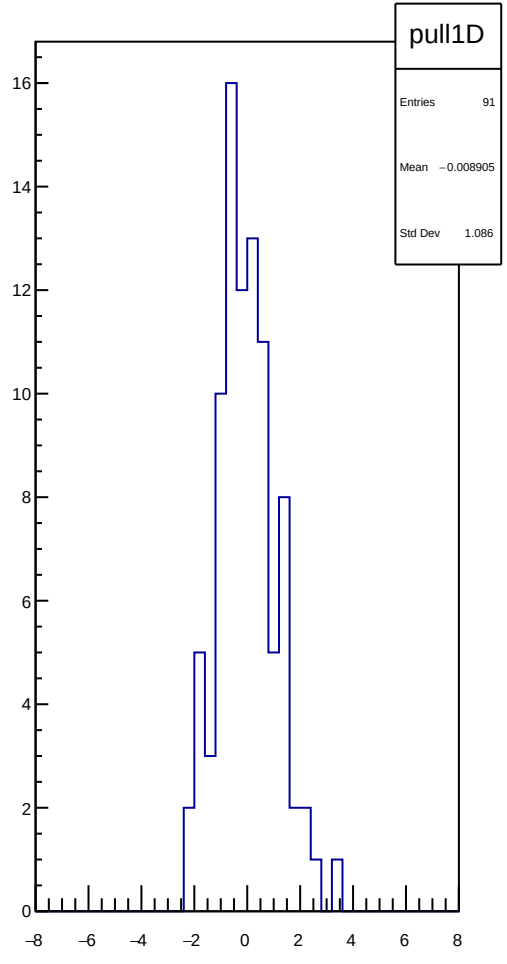

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 171.7 / 90
p0 1713 ± 1.296
1760
1740
1720
1700
1680
1660

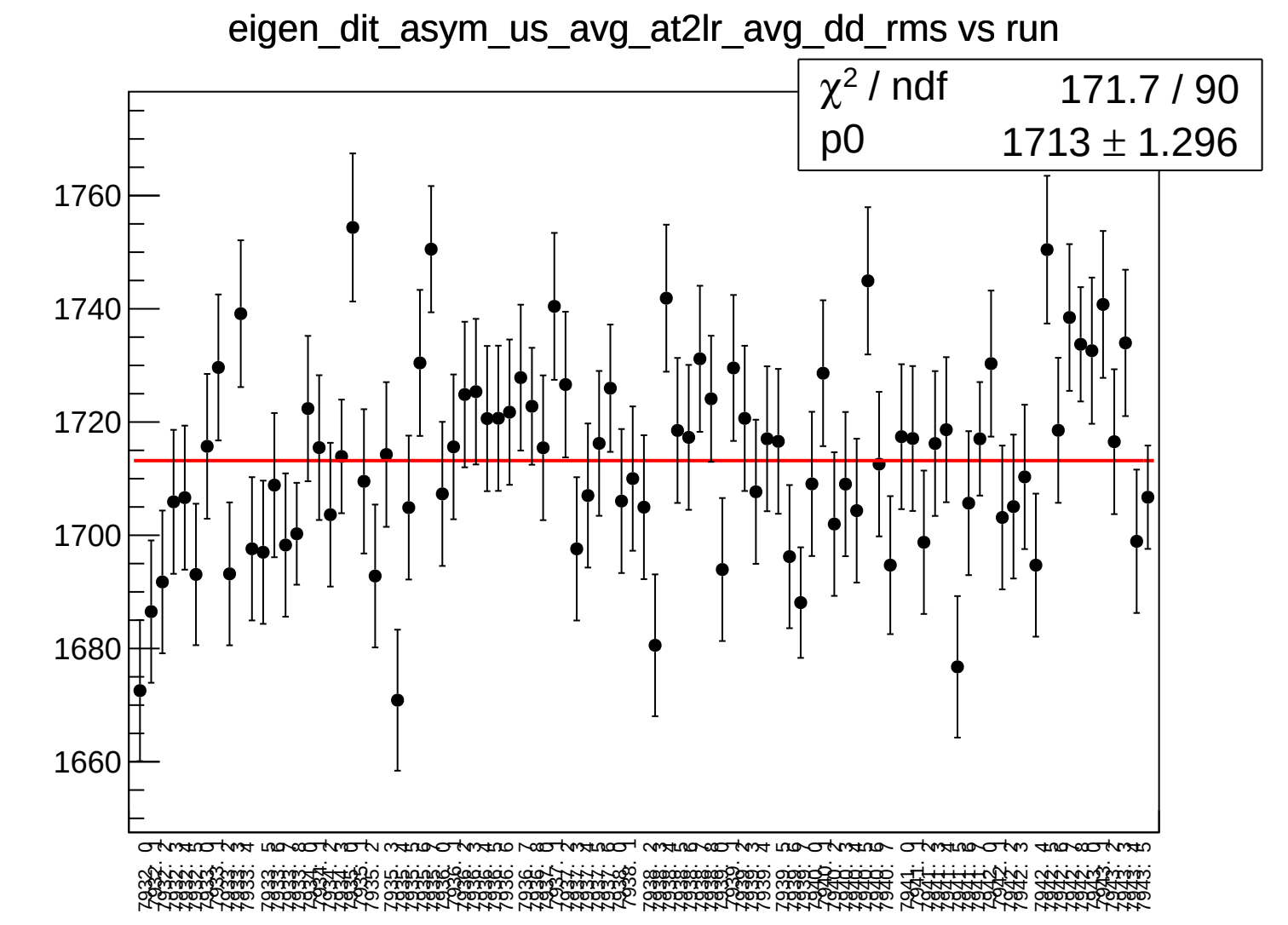

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 3771± 1.141e+04
400
200
0
−200
−400
pull
Entries 91
Mean −304.5
Std Dev 0
2
1
0
−1
−2
−3

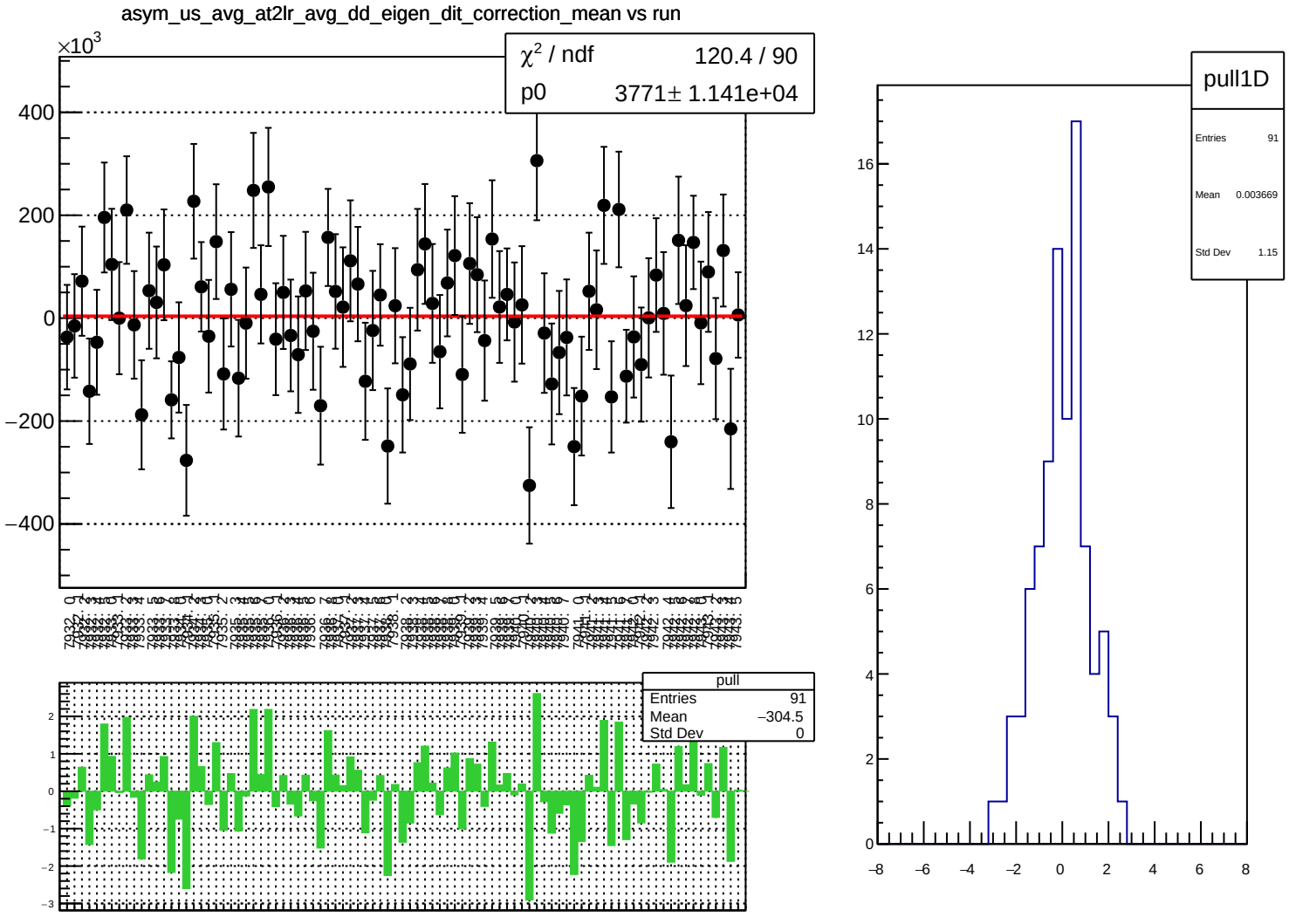

pull1D
Entries 91
Mean 0.003669
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

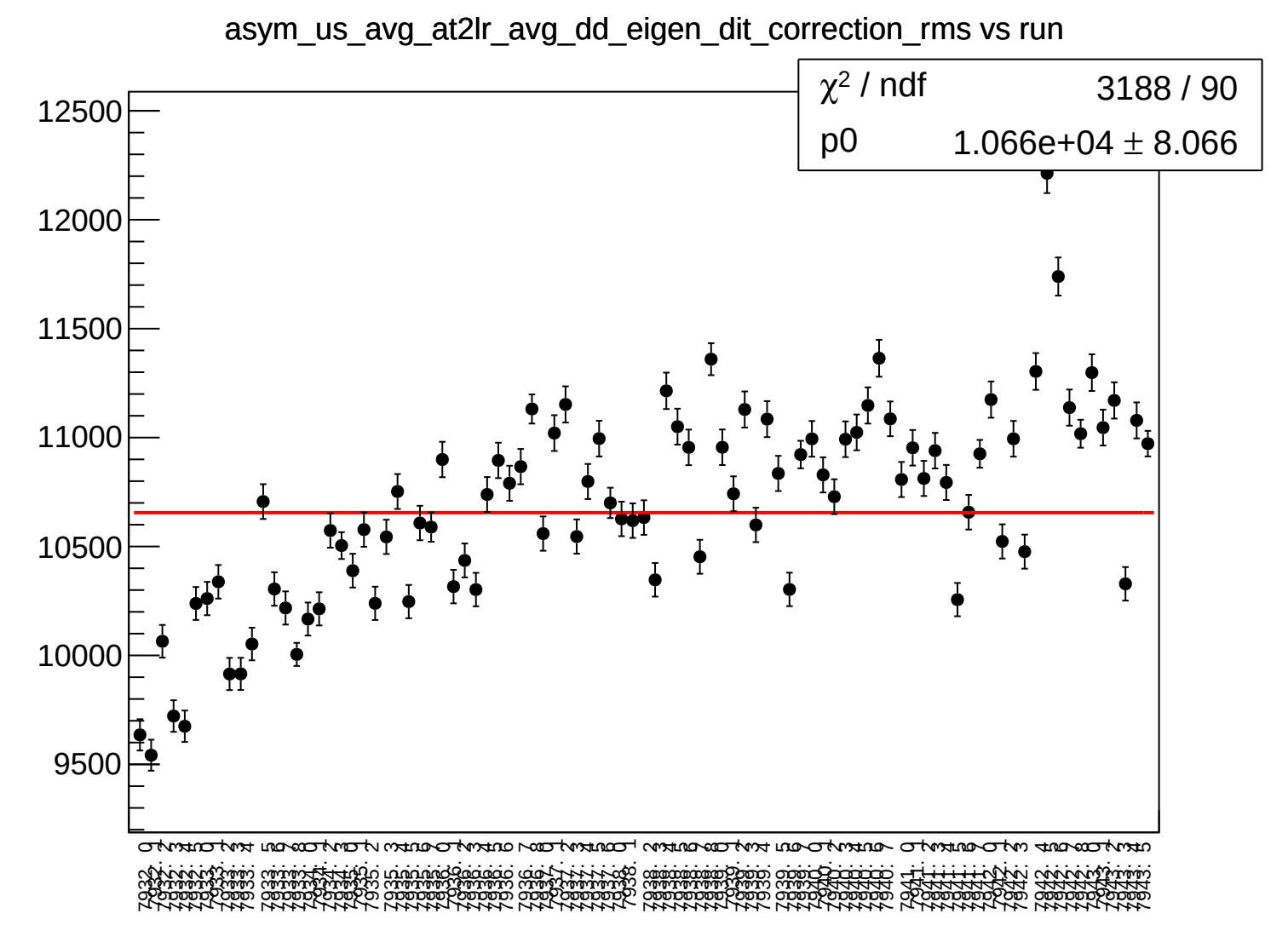

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3188 / 90
p0 1.066e+04 ± 8.066
12500
12000
11500
11000
10500
10000
9500

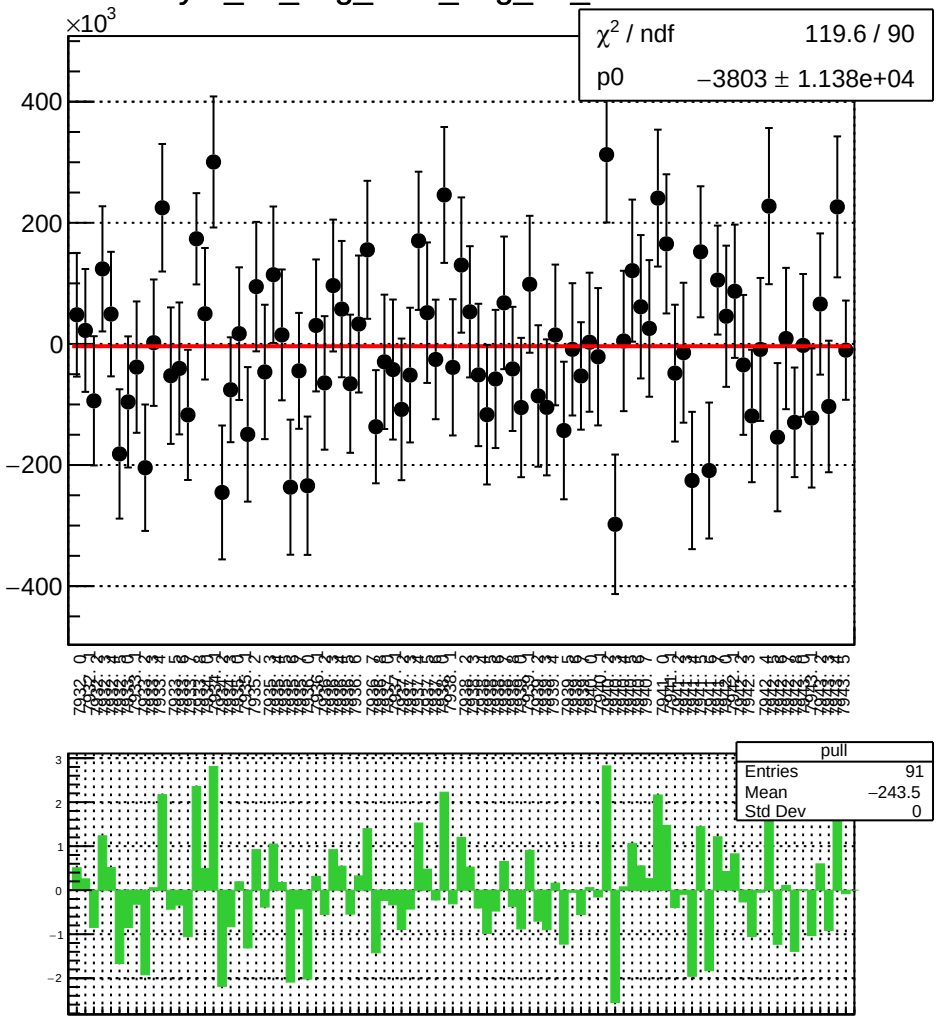

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 107.2 / 90
p0 227.6 ± 1832
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 195.7
Std Dev 0
3
2
1
0
−1
−2

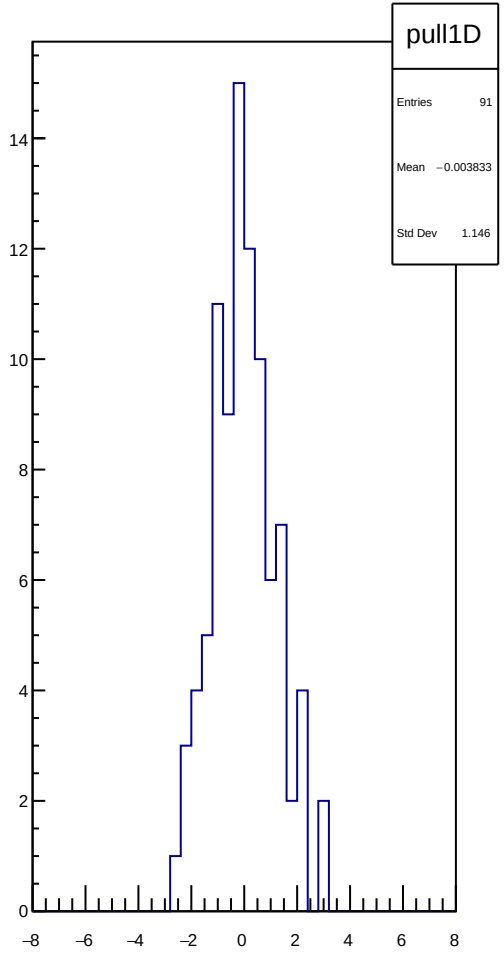

pull1D
Entries 91
Mean −0.008905
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

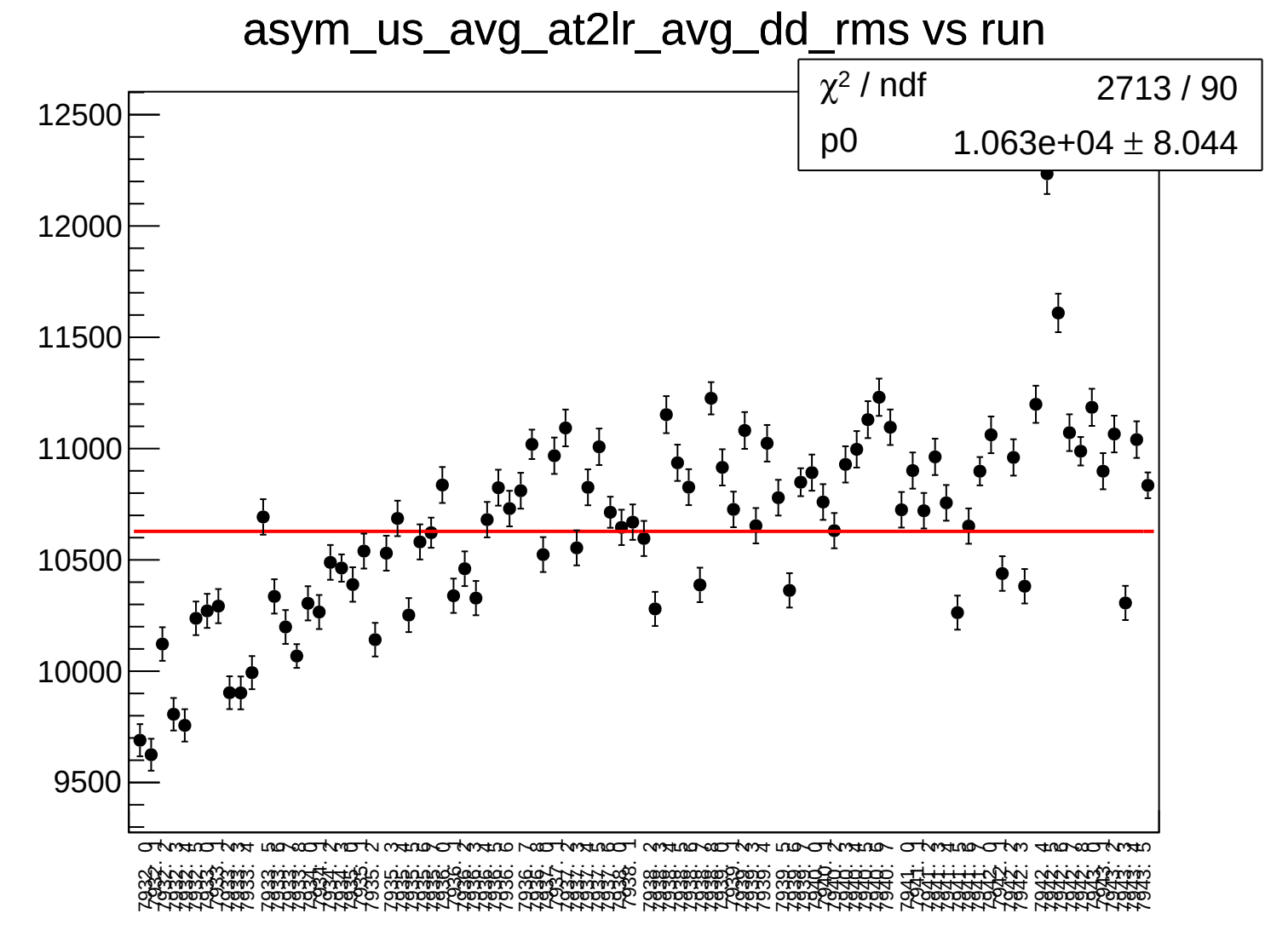

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 171.7 / 90
p0 1713 ± 1.296
1760
1740
1720
1700
1680
1660

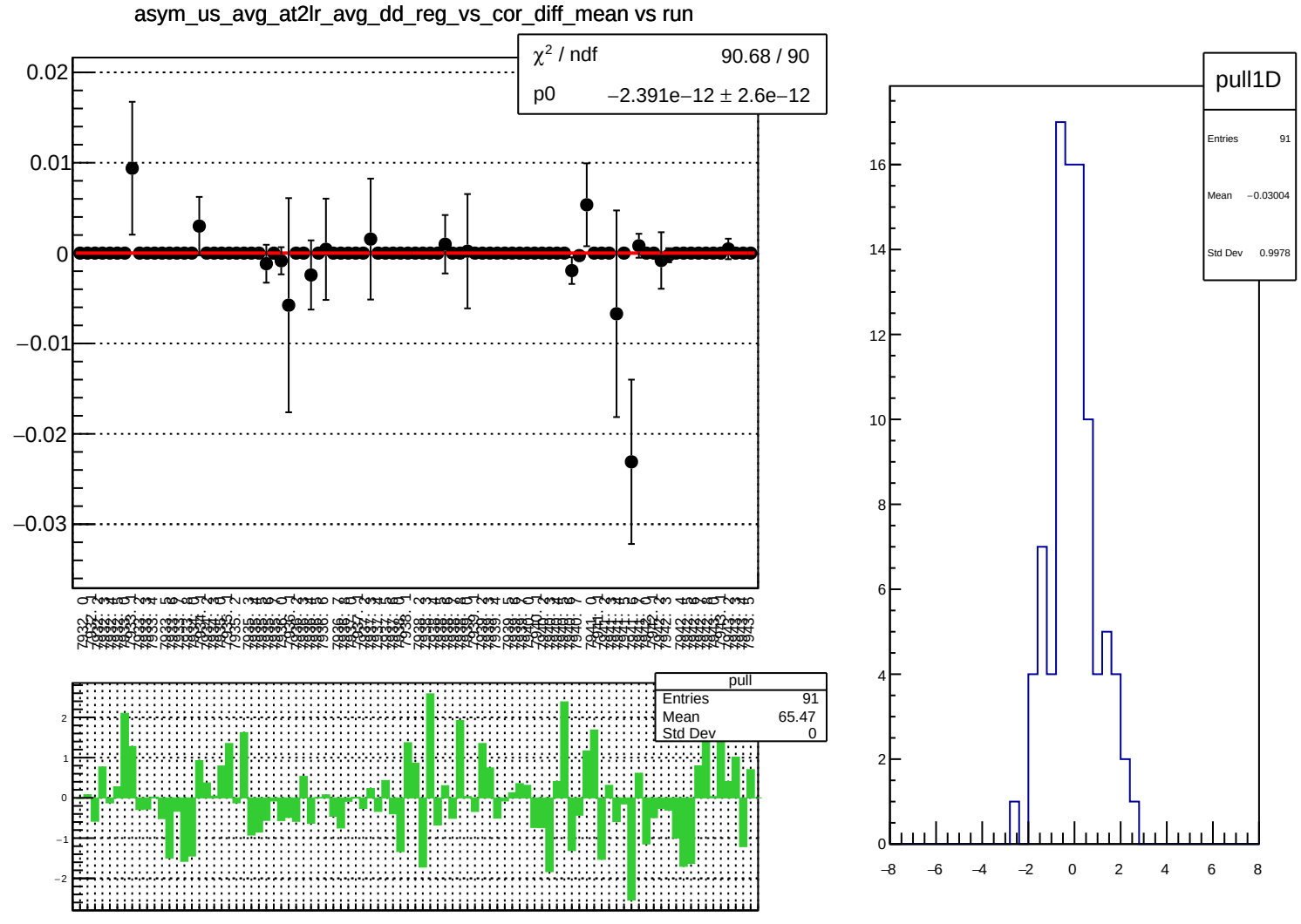

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 3771± 1.141e+04
400
200
0
−200
−400
pull
Entries 91
Mean −304.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.003669
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

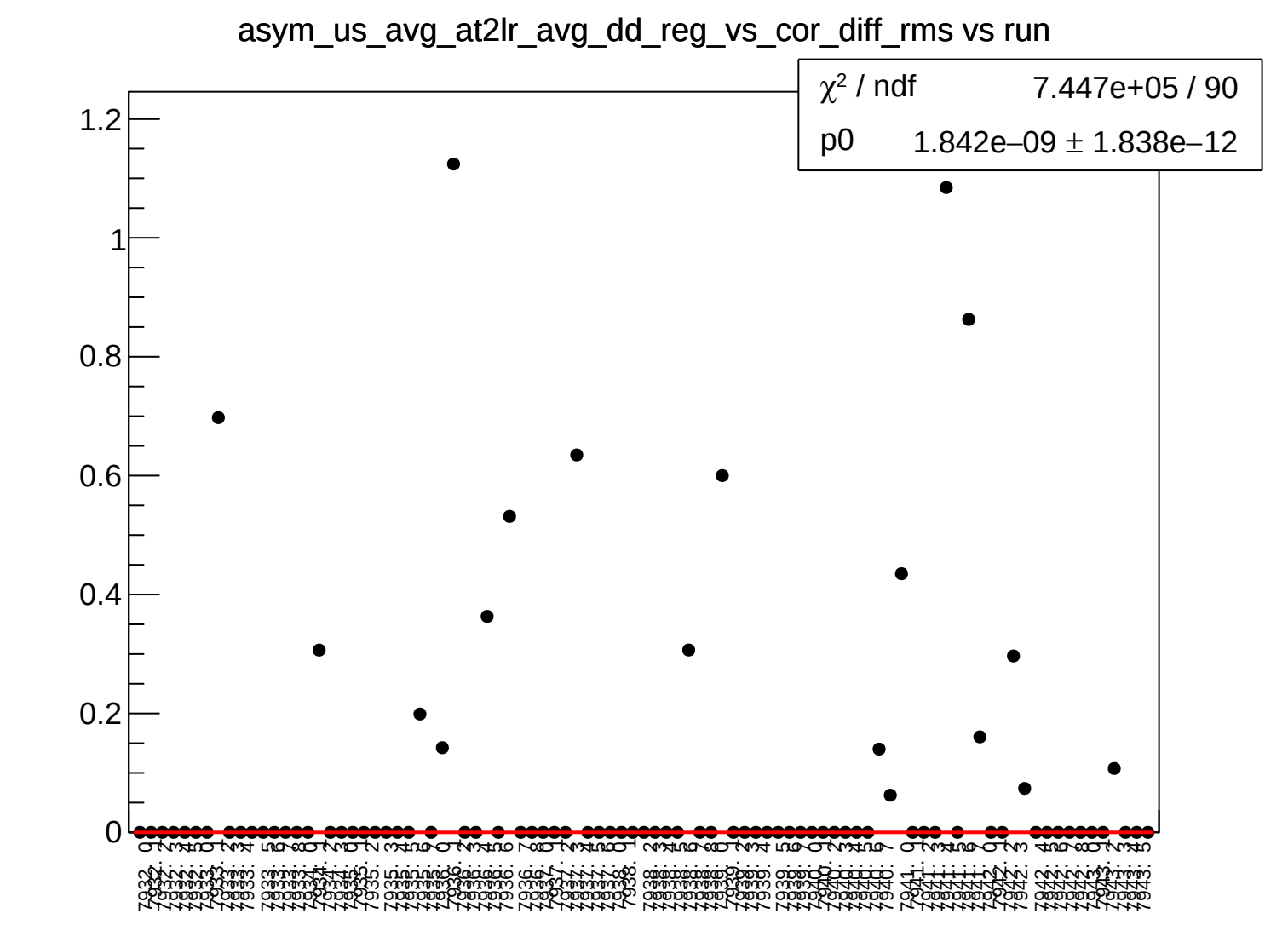

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3188 / 90
p0 1.066e+04 ± 8.066
12500
12000
11500
11000
10500
10000
9500

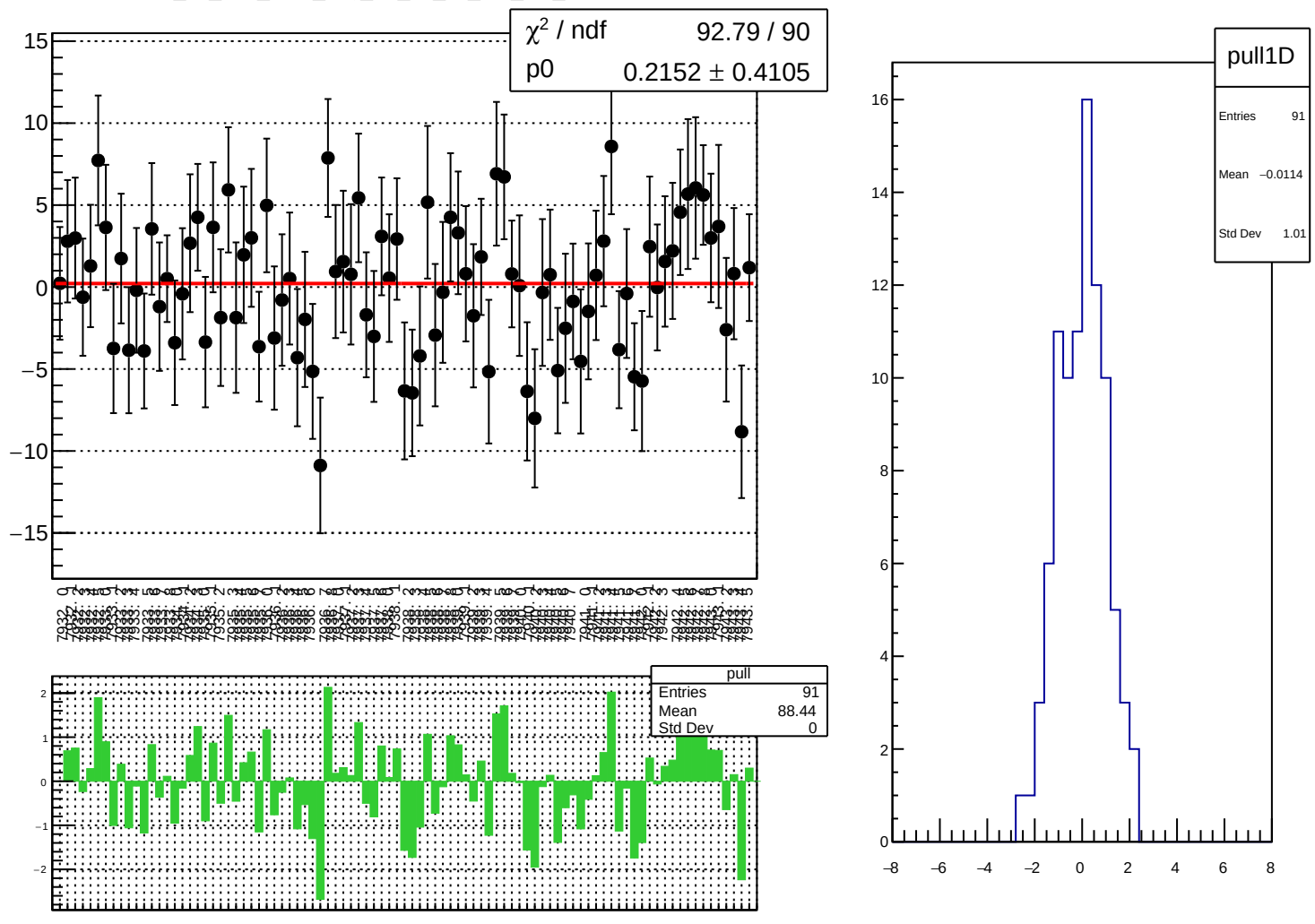

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 119.6 / 90
p0 −3803 ± 1.138e+04
400
200
0
−200
−400
pull
Entries 91
Mean −243.5
Std Dev 0
3
2
1
0
−1
−2

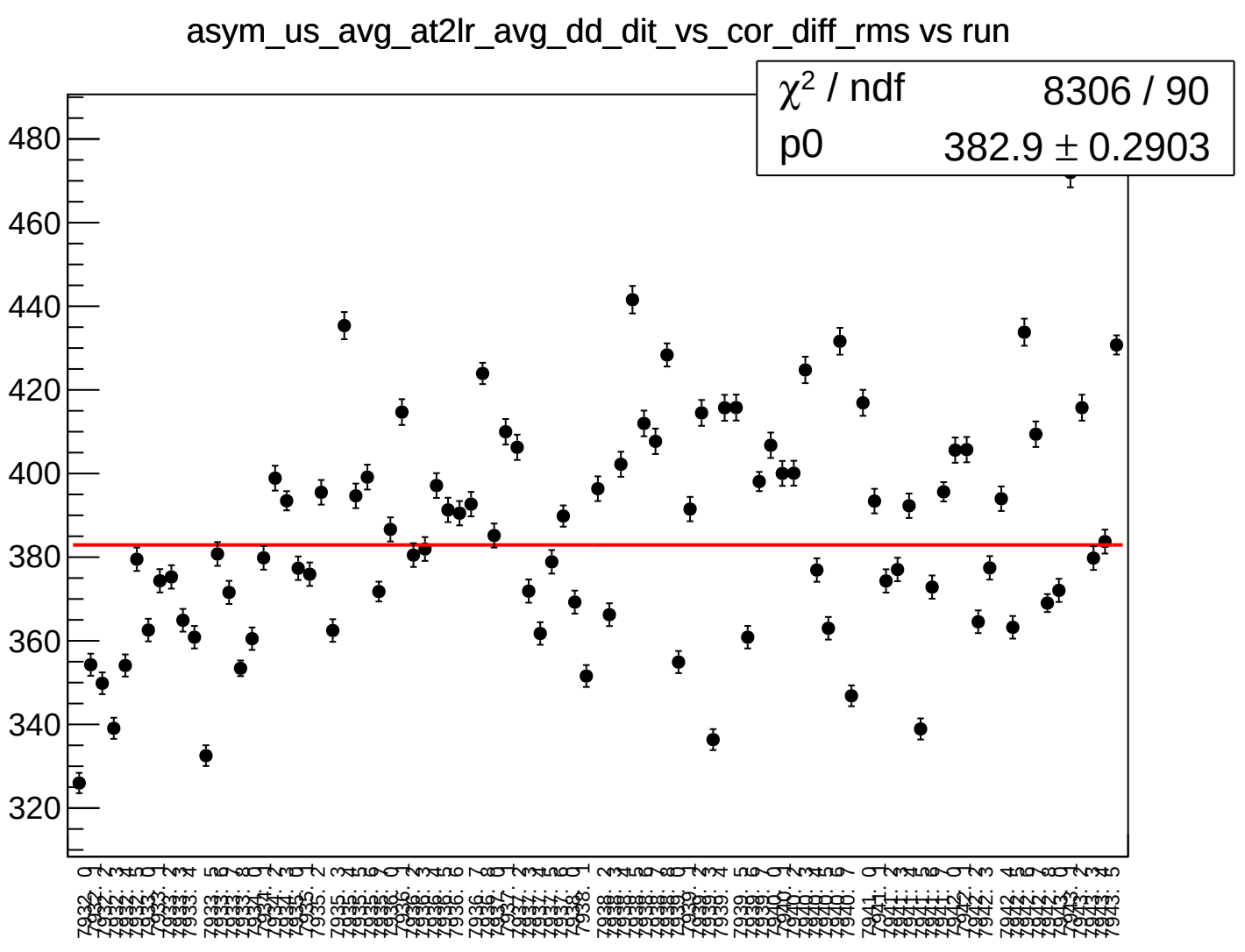

pull1D
Entries 91
Mean −0.003833
Std Dev 1.146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

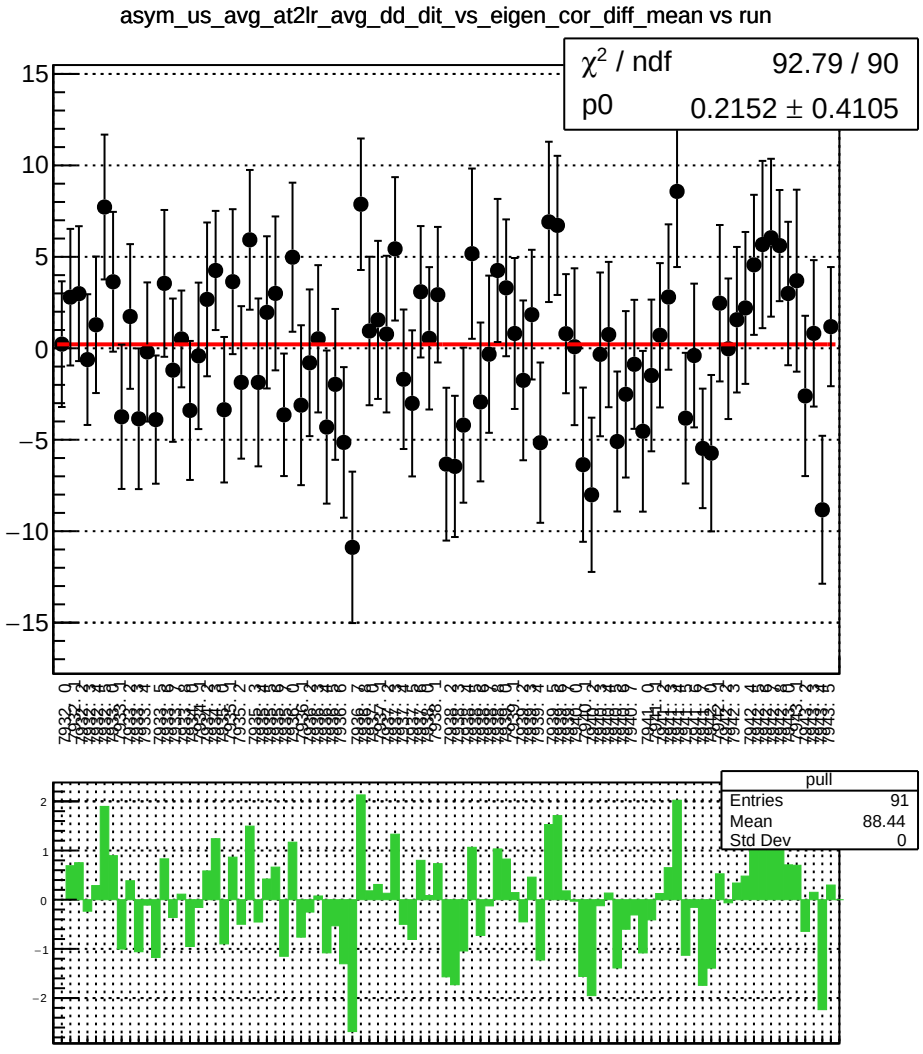

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2713 / 90
p0 1.063e+04 ± 8.044
12500
12000
11500
11000
10500
10000
9500

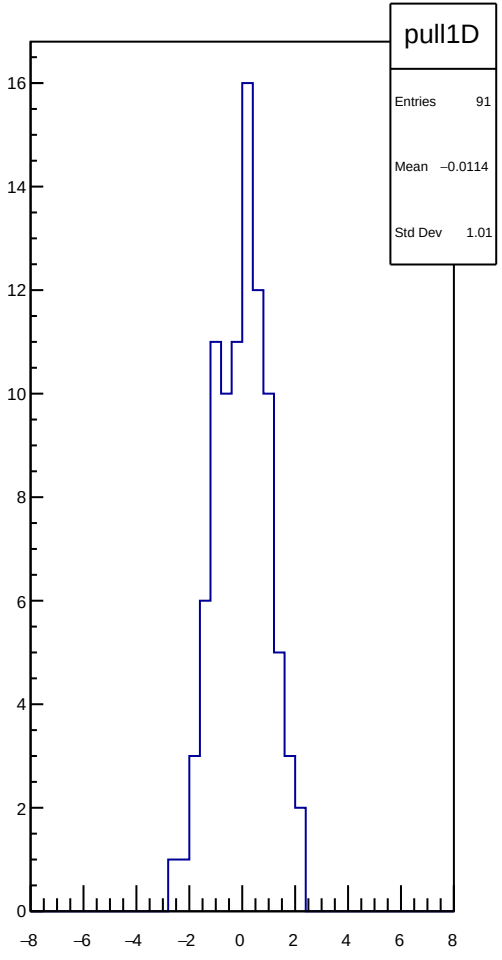

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.68 / 90
p0 −2.391e−12 ± 2.6e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 65.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.03004
Std Dev 0.9978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

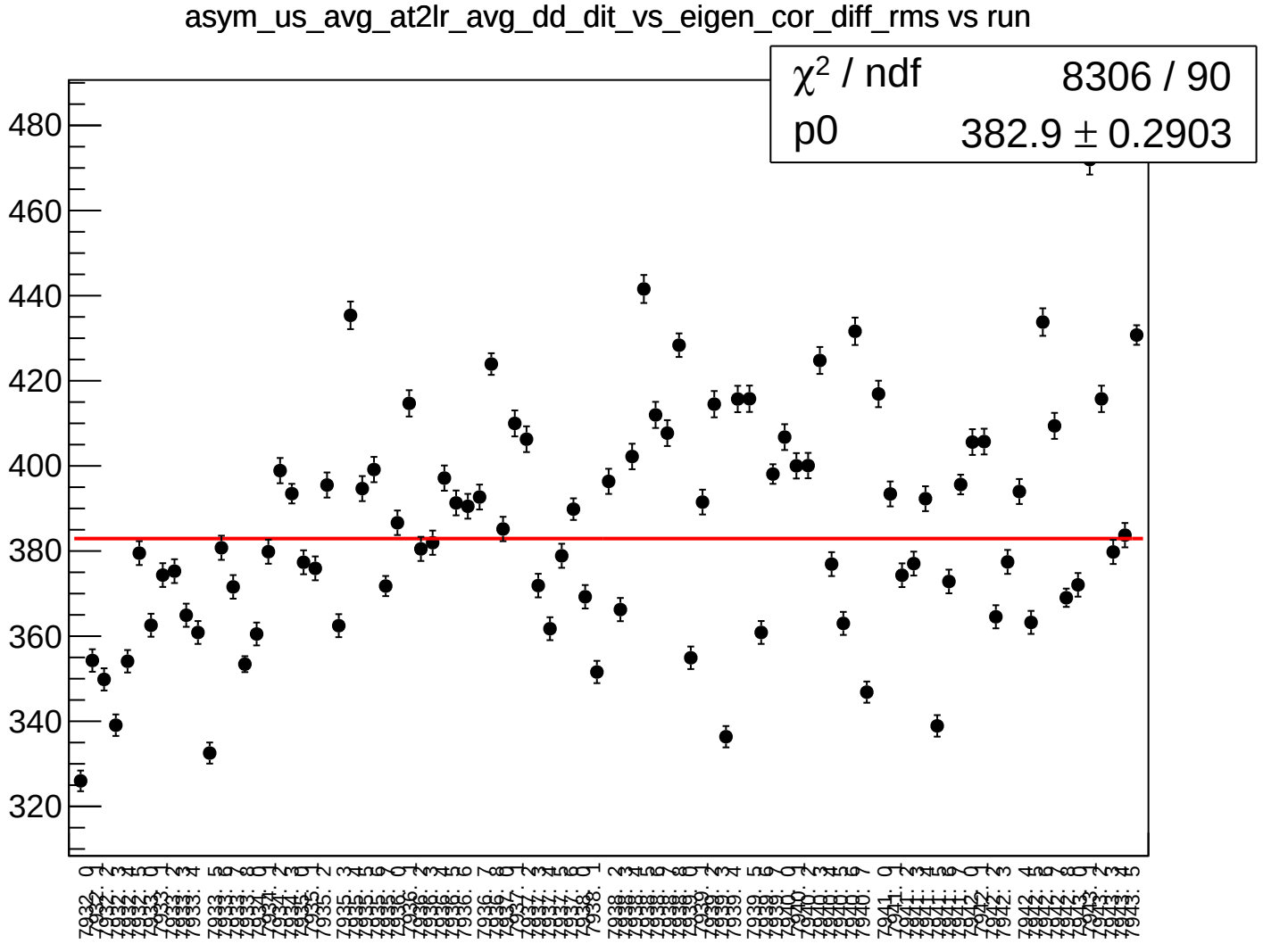

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.447e+05 / 90
p0 1.842e−09 ± 1.838e−12
1.2
1
0.8
0.6
0.4
0.2
0

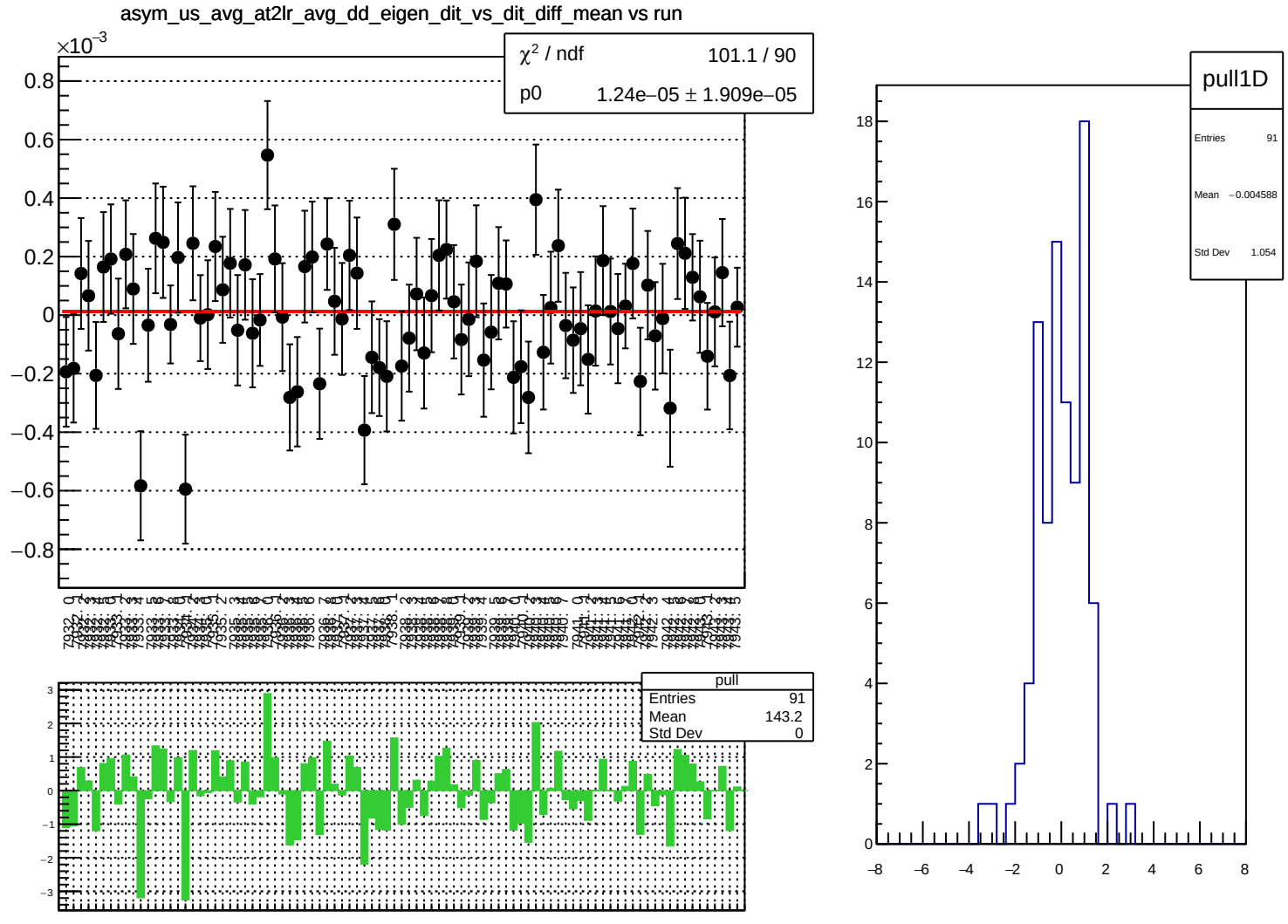

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.79 / 90
p0 0.2152 ± 0.4105
pull
Entries 91
Mean 88.44
Std Dev 0
pull1D
Entries 91
Mean −0.0114
Std Dev 1.01

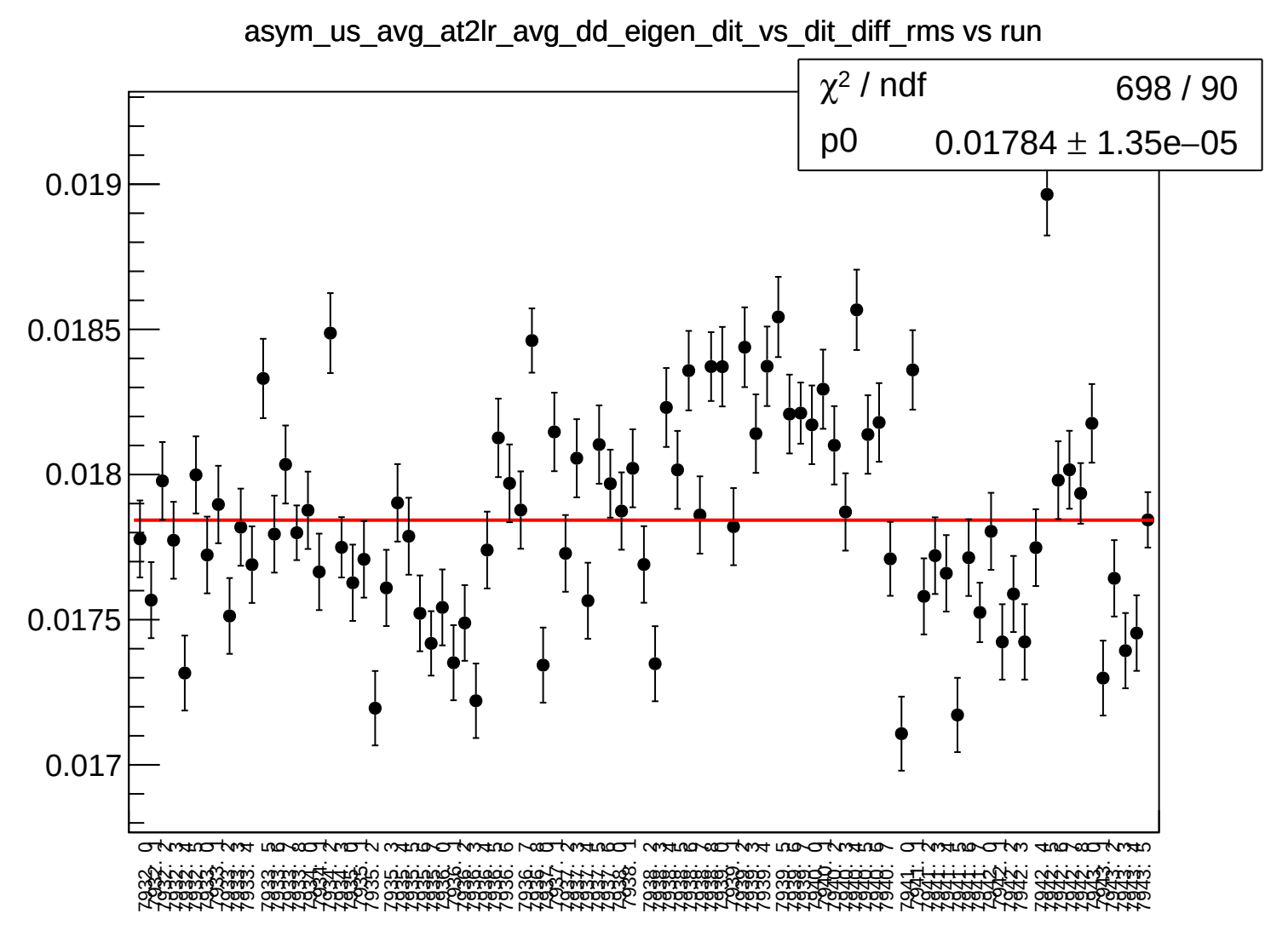

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8306 / 90
p0 382.9 ± 0.2903
480
460
440
420
400
380
360
340
320

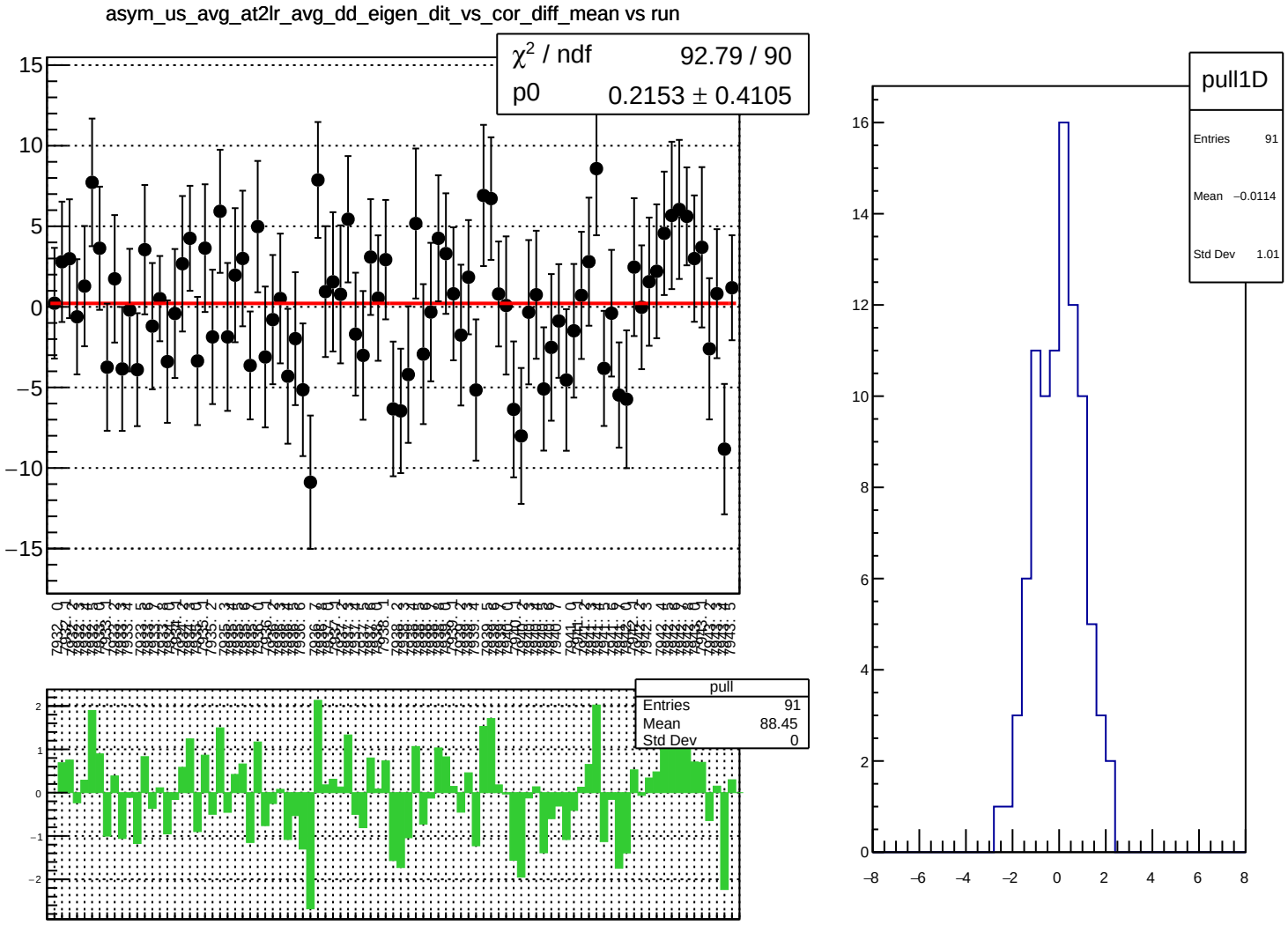

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.79 / 90
p0 0.2152 ± 0.4105
pull
Entries 91
Mean 88.44
Std Dev 0

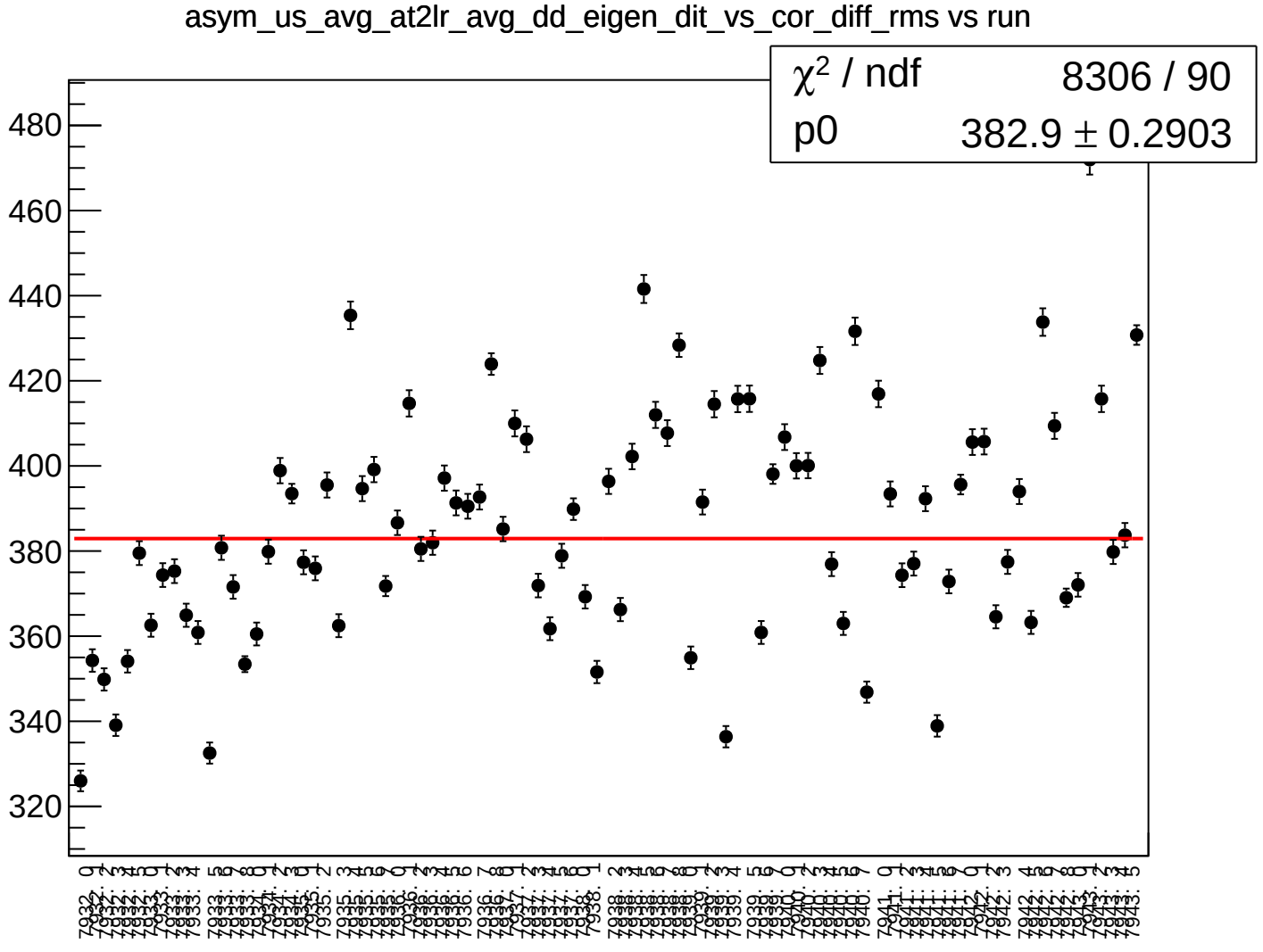

pull1D
Entries 91
Mean −0.0114
Std Dev 1.01

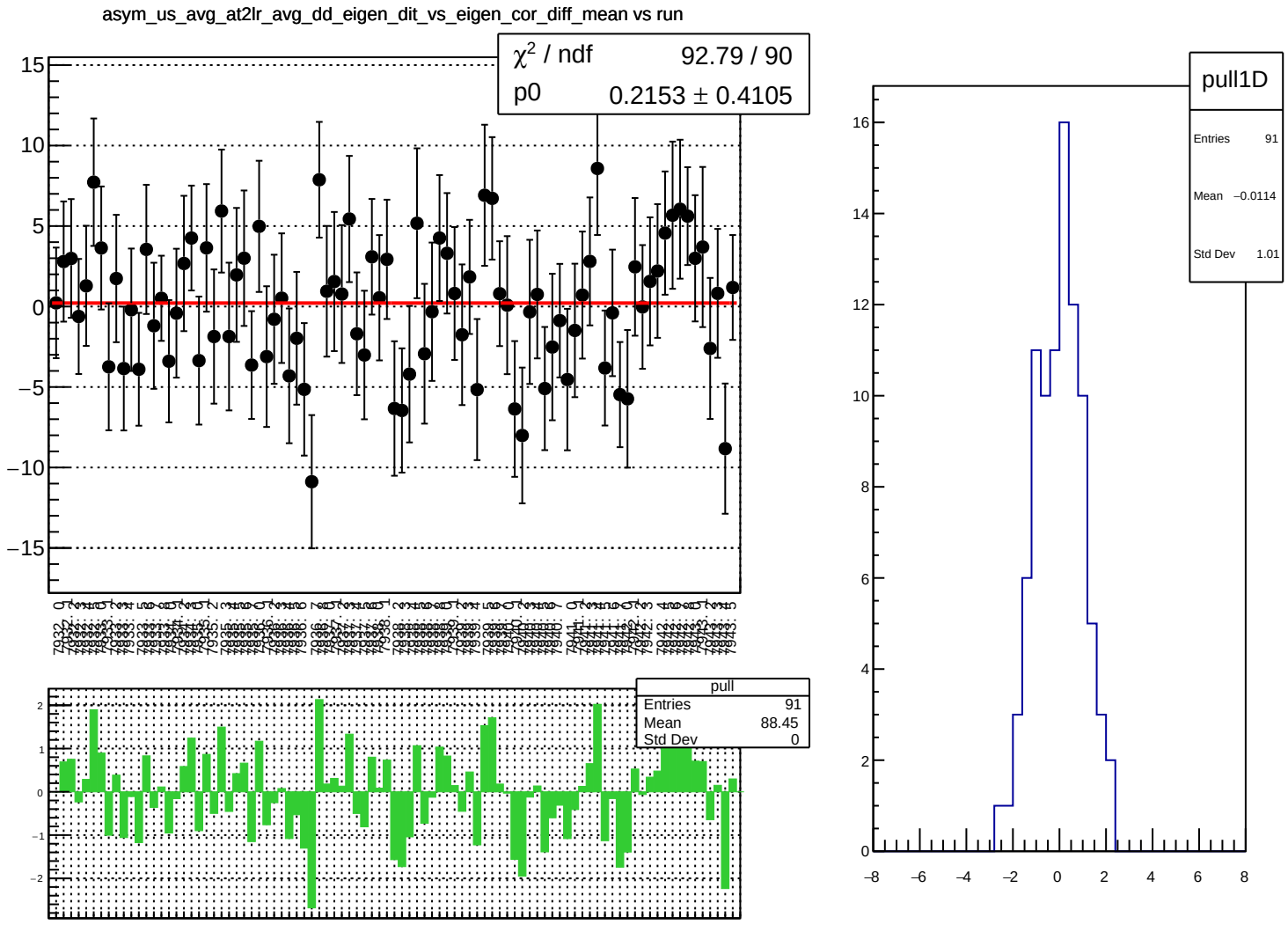

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8306 / 90
p0 382.9 ± 0.2903
480
460
440
420
400
380
360
340
320

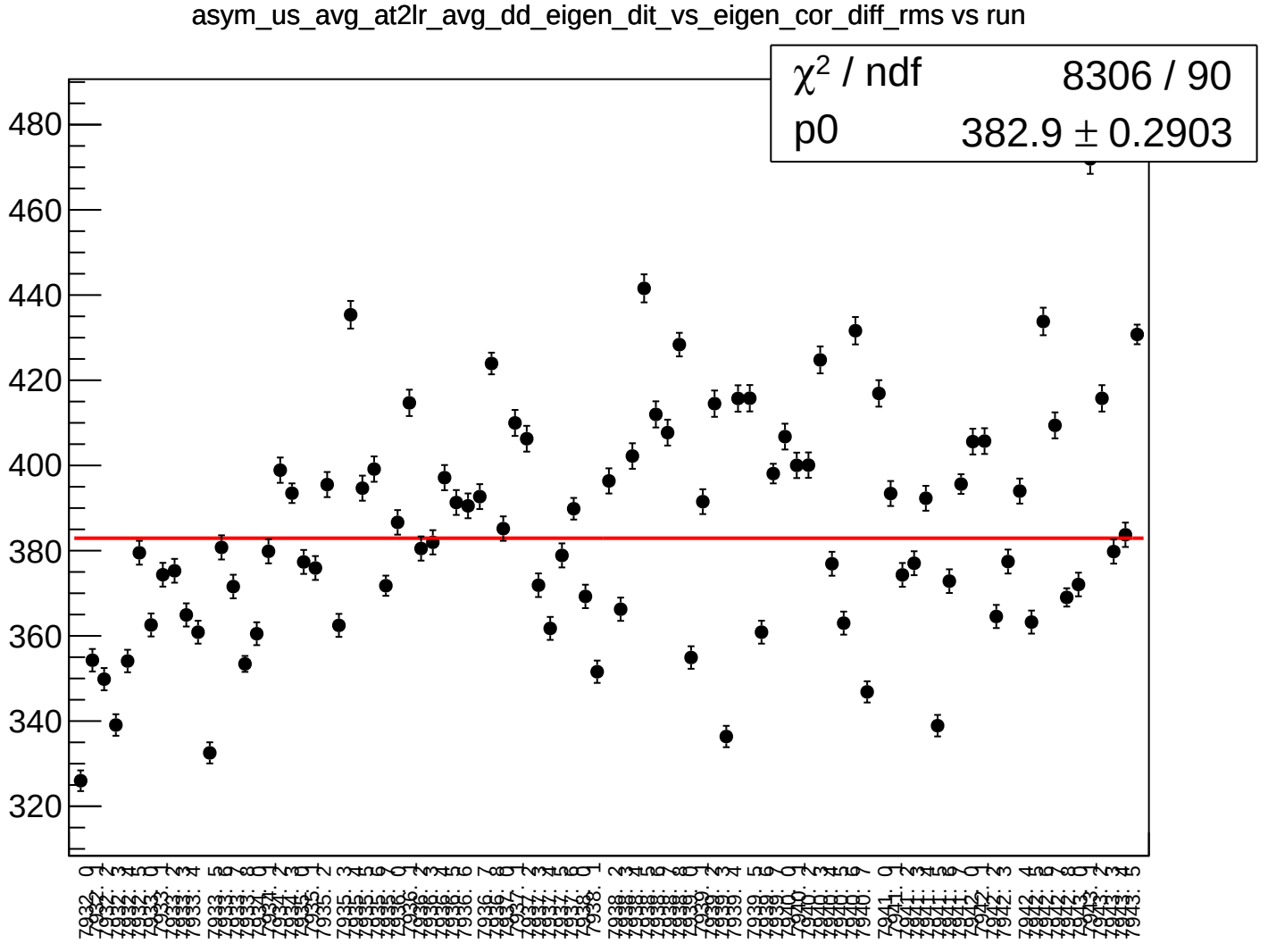

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 90
p0 1.24e−05 ± 1.909e−05
pull
Entries 91
Mean 143.2
Std Dev 0
pull1D
Entries 91
Mean −0.004588
Std Dev 1.054

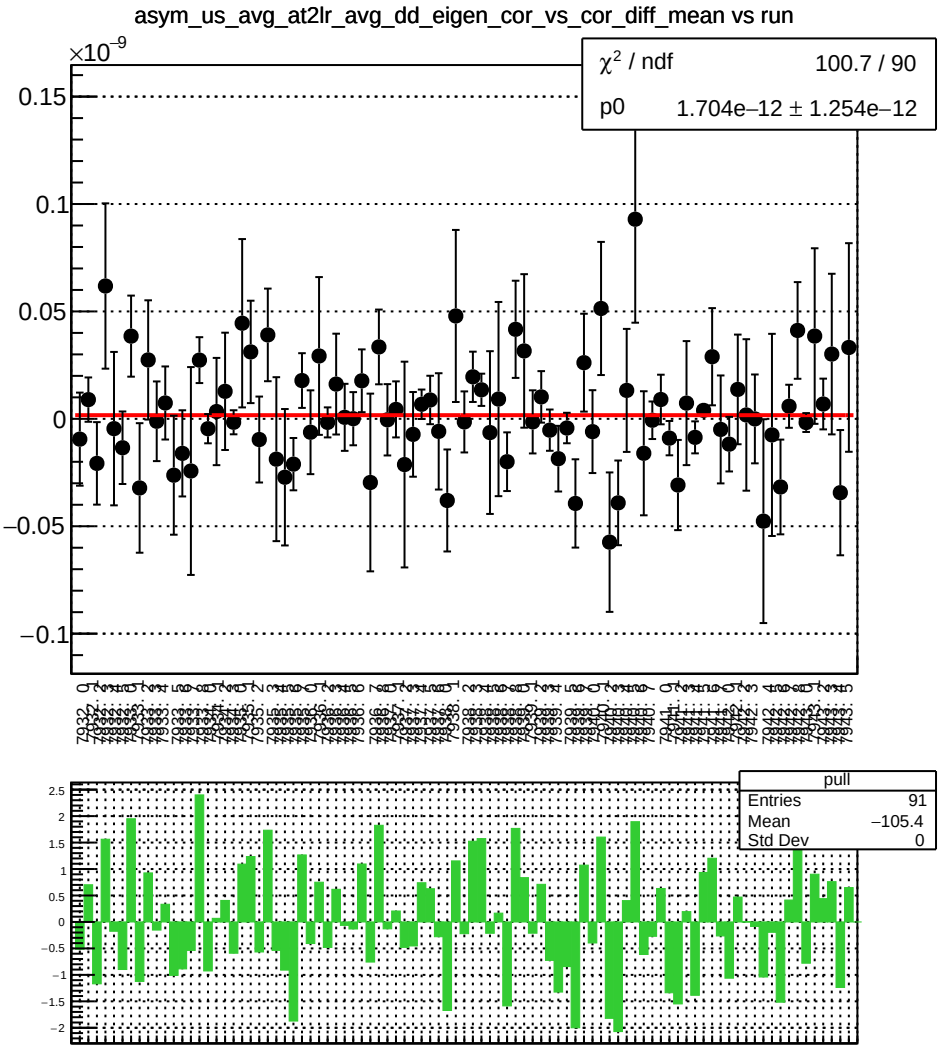

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 698 / 90
p0 0.01784 ± 1.35e−05
0.019
0.0185
0.018
0.0175
0.017

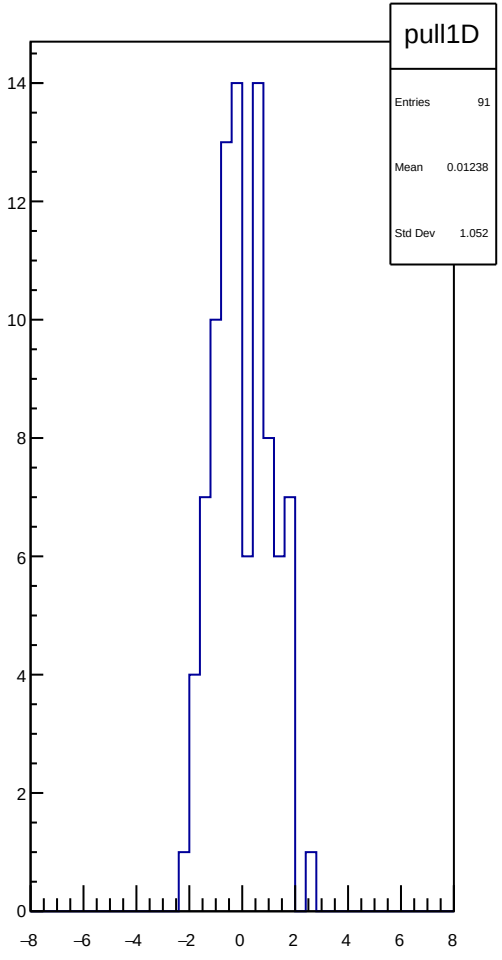

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.79 / 90
p0 0.2153 ± 0.4105
pull
Entries 91
Mean 88.45
Std Dev 0
pull1D
Entries 91
Mean −0.0114
Std Dev 1.01

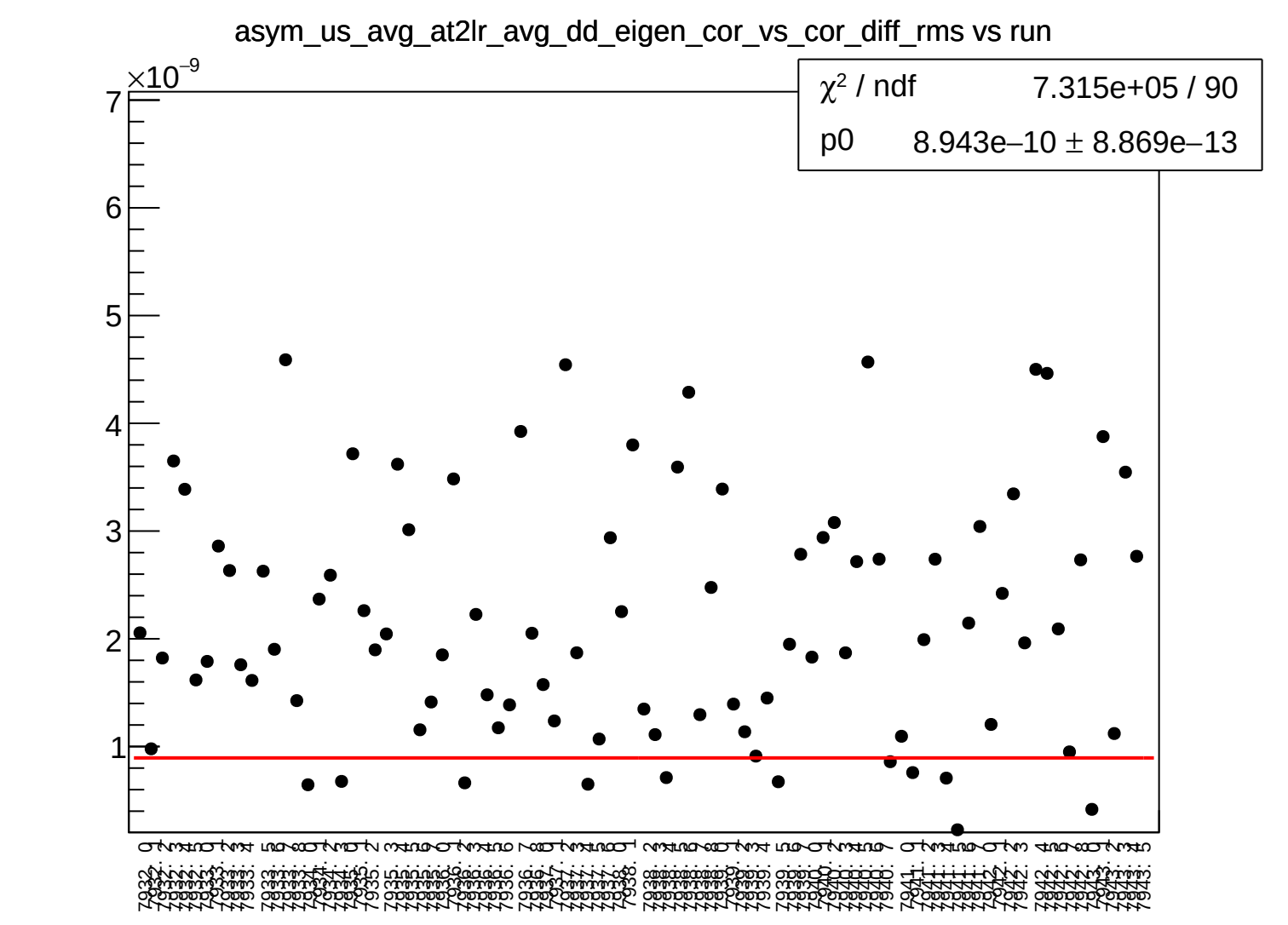

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8306 / 90
p0 382.9 ± 0.2903
480
460
440
420
400
380
360
340
320

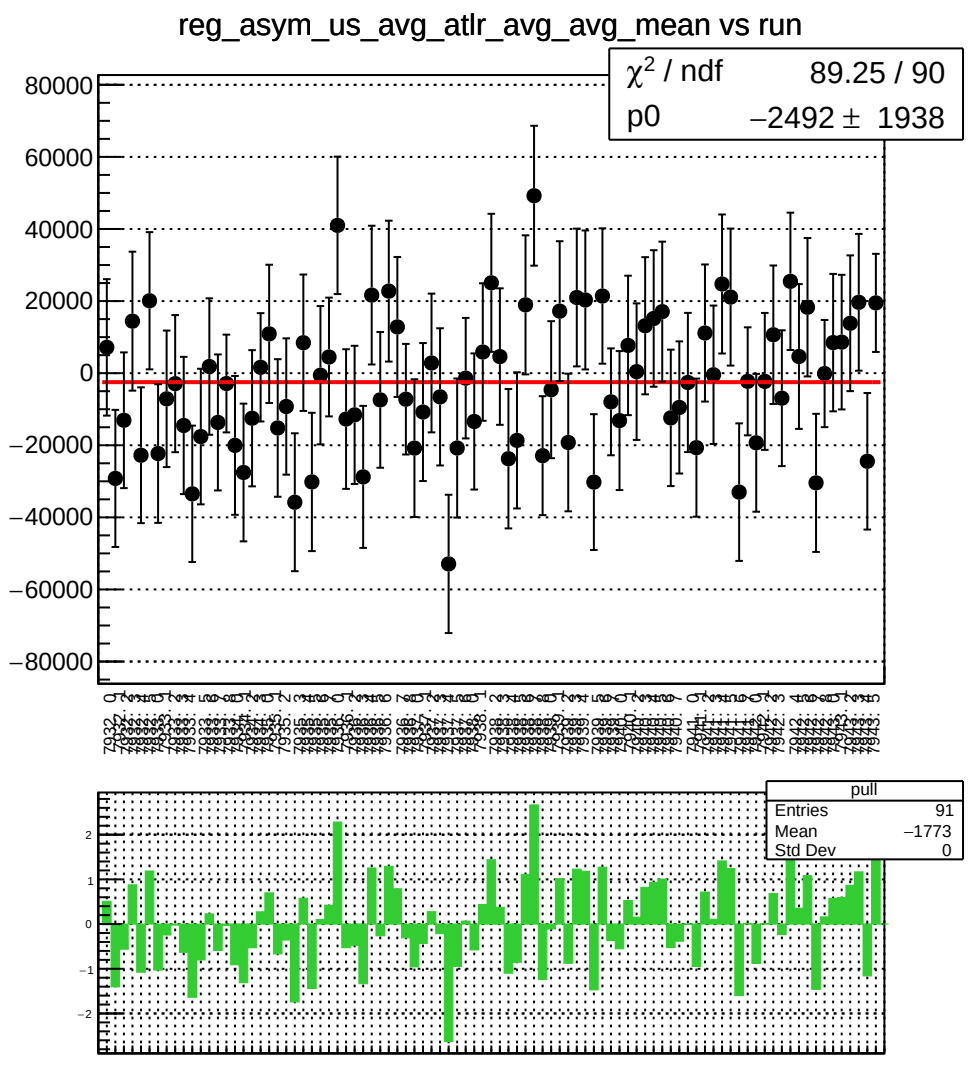

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.79 / 90
p0 0.2153 ± 0.4105
pull
Entries 91
Mean 88.45
Std Dev 0
pull1D
Entries 91
Mean −0.0114
Std Dev 1.01

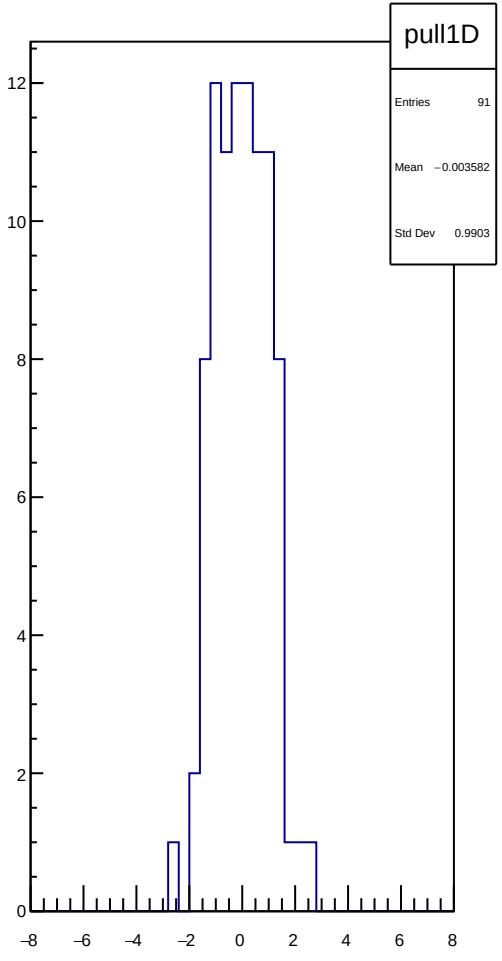

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8306 / 90
p0 382.9 ± 0.2903
480
460
440
420
400
380
360
340
320

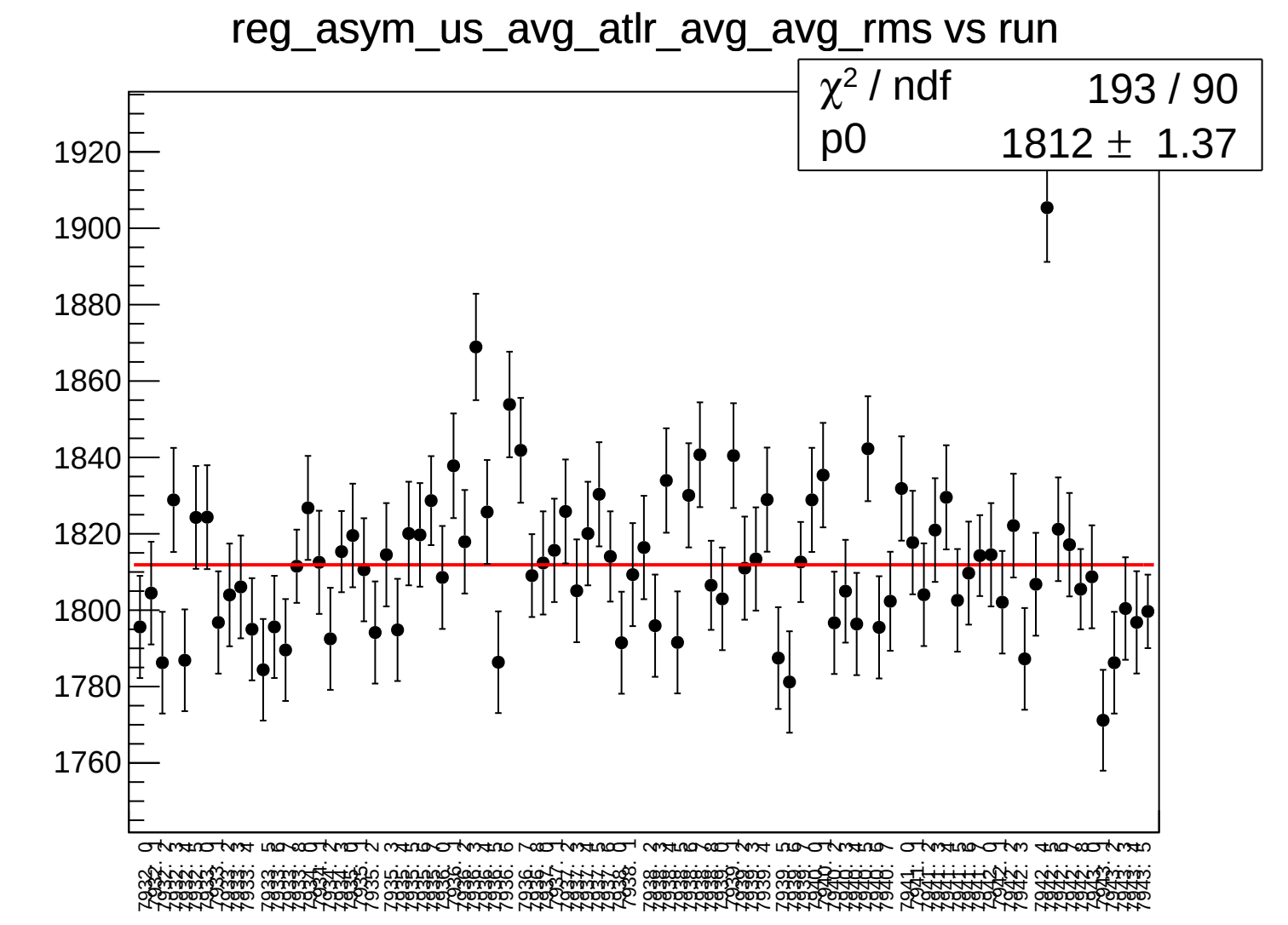

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 100.7 / 90
p0 1.704e−12 ± 1.254e−12
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −105.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

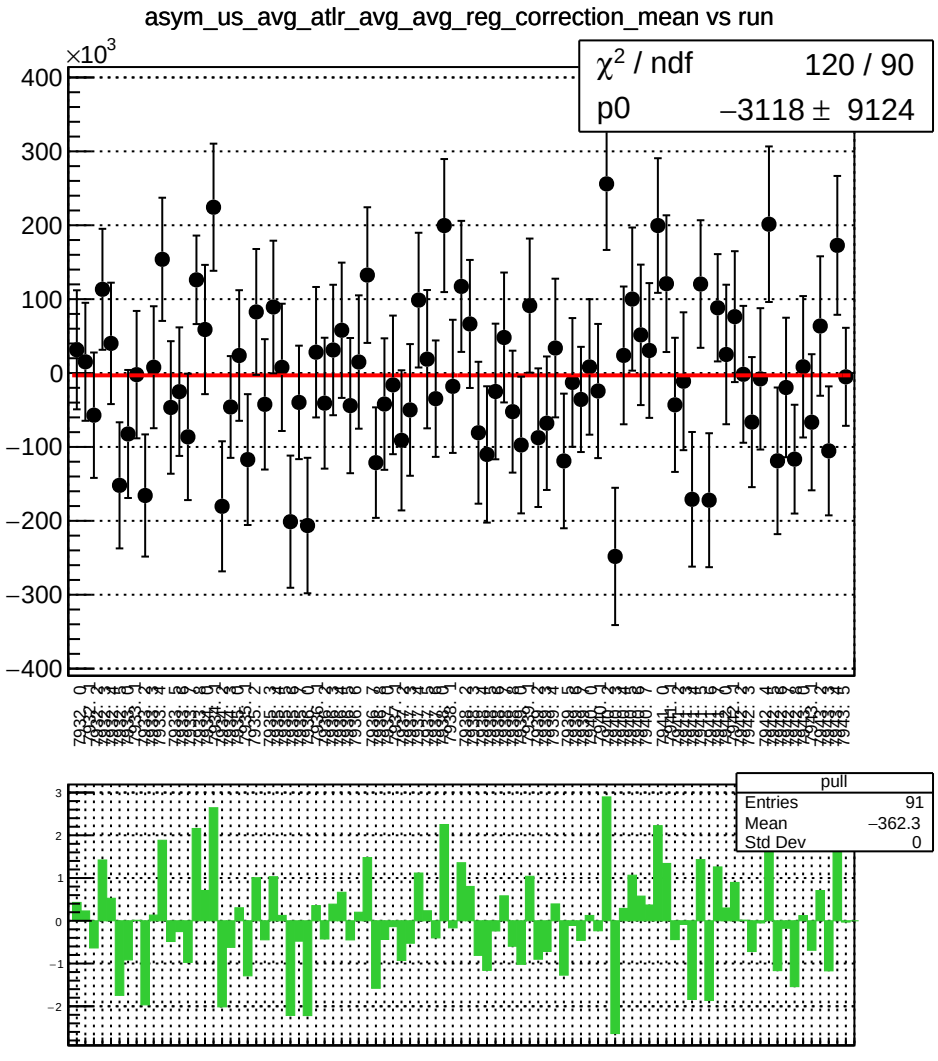

pull1D
Entries 91
Mean 0.01238
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

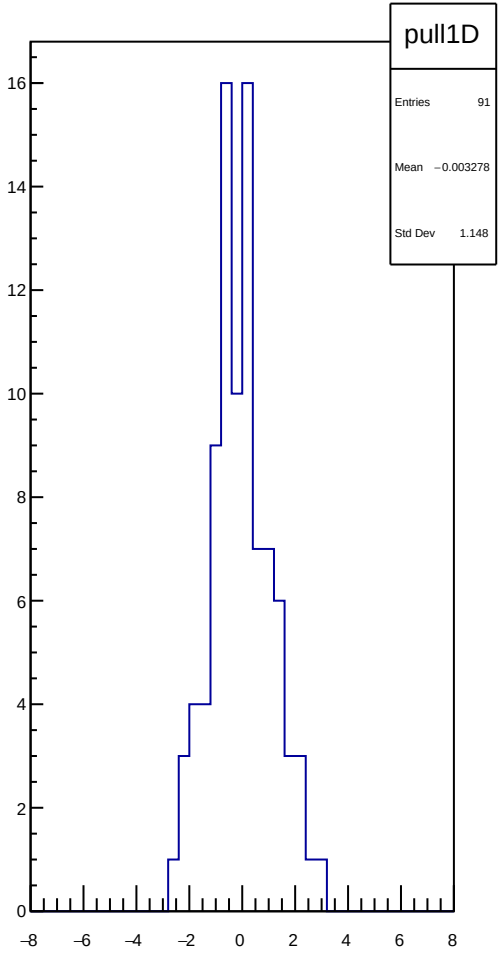

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.315e+05 / 90
p0 8.943e−10 ± 8.869e−13
7
6
5
4
3
2
1

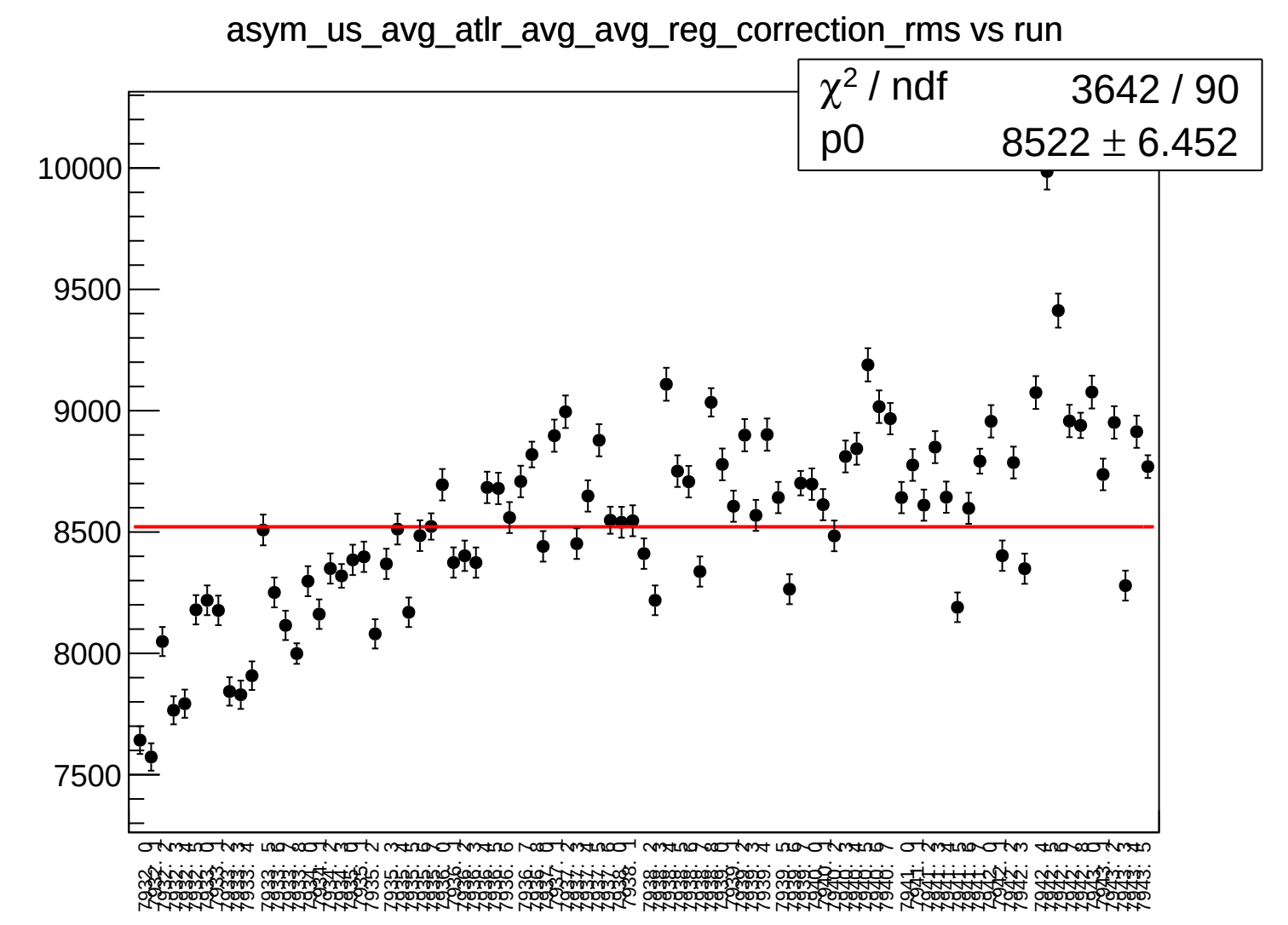

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 89.25 / 90
p0 −2492 ± 1938
pull
Entries 91
Mean −1773
Std Dev 0

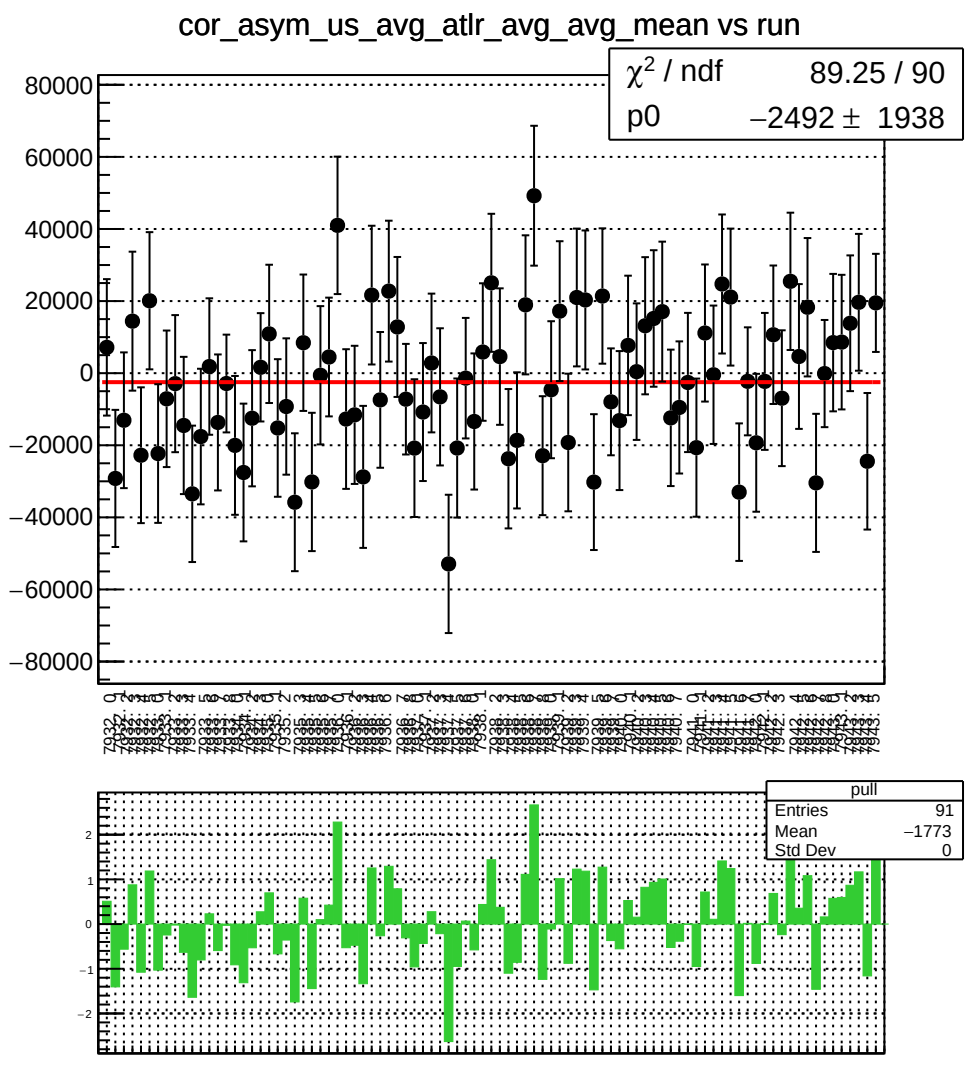

pull1D
Entries 91
Mean −0.003582
Std Dev 0.9903

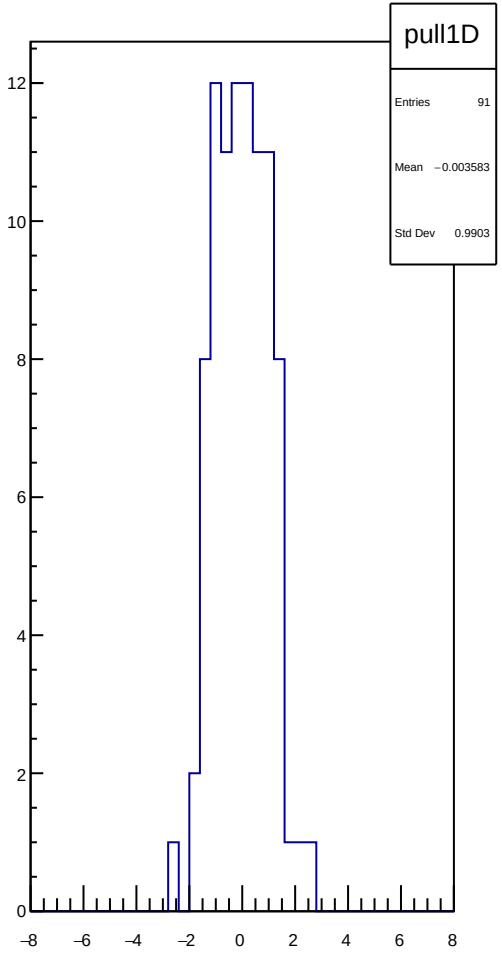

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 193 / 90
p0 1812 ± 1.37
1920
1900
1880
1860
1840
1820
1800
1780
1760

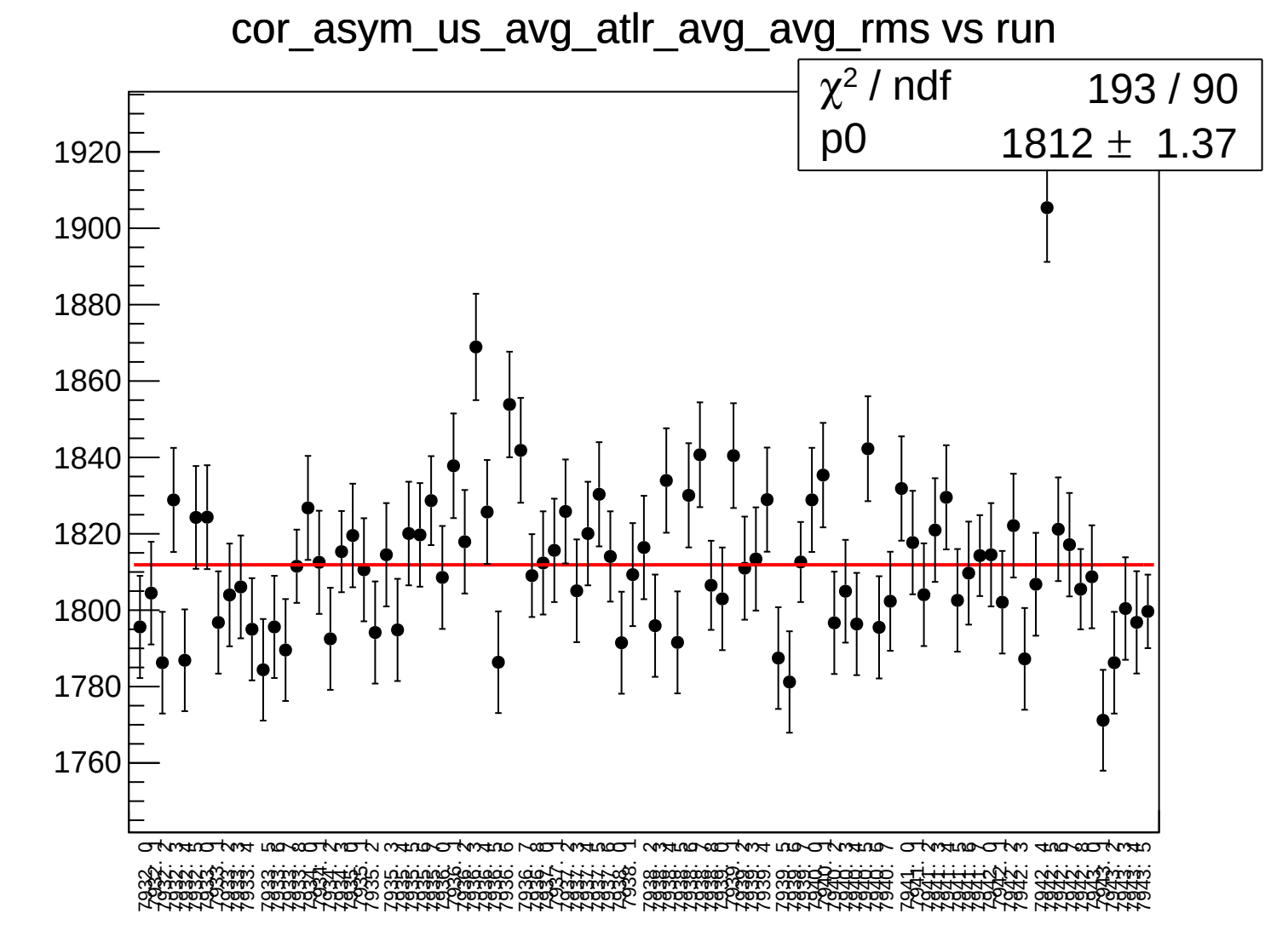

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 120 / 90
p0 −3118 ± 9124
pull
Entries 91
Mean −362.3
Std Dev 0

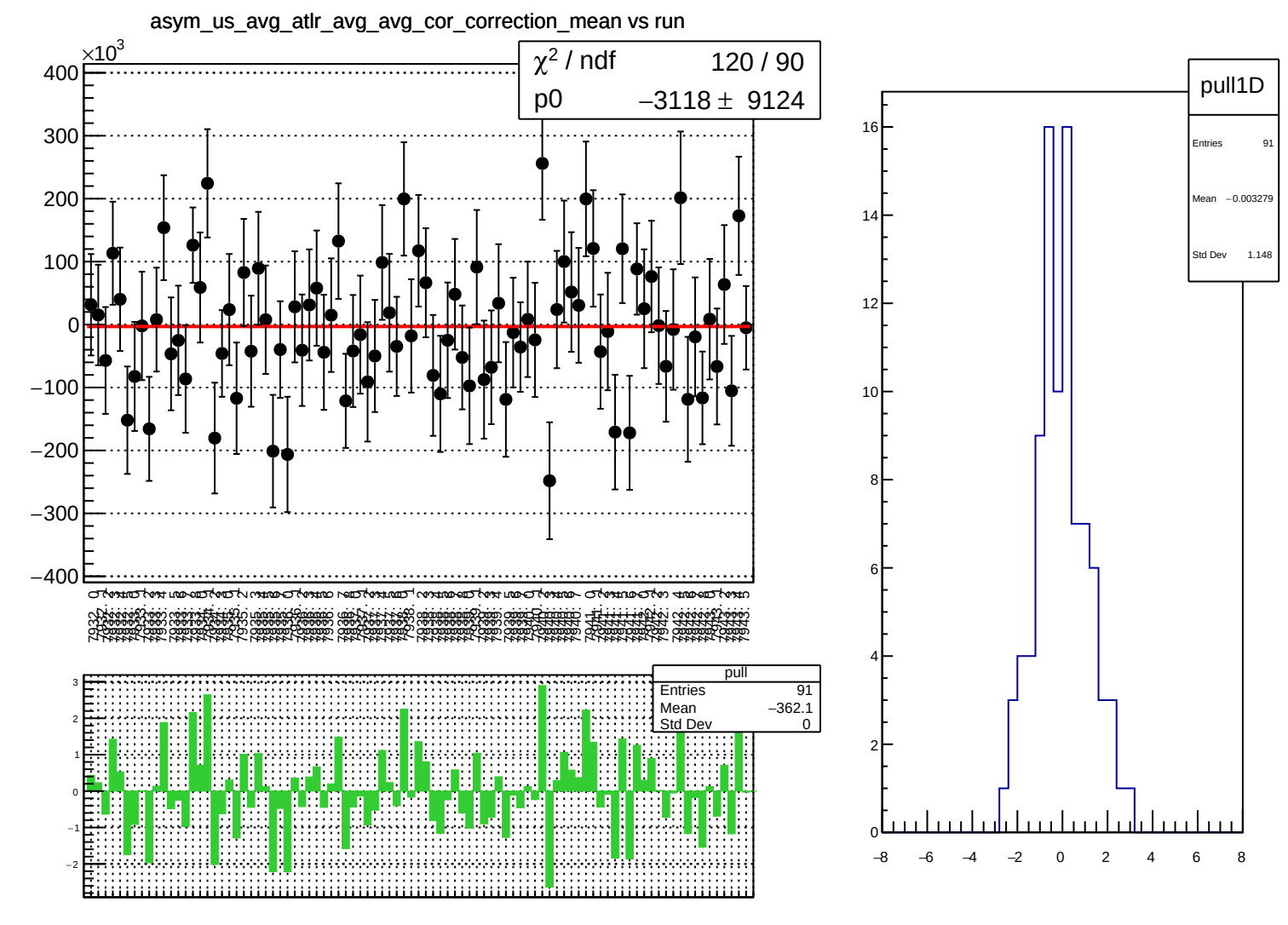

pull1D
Entries 91
Mean −0.003278
Std Dev 1.148

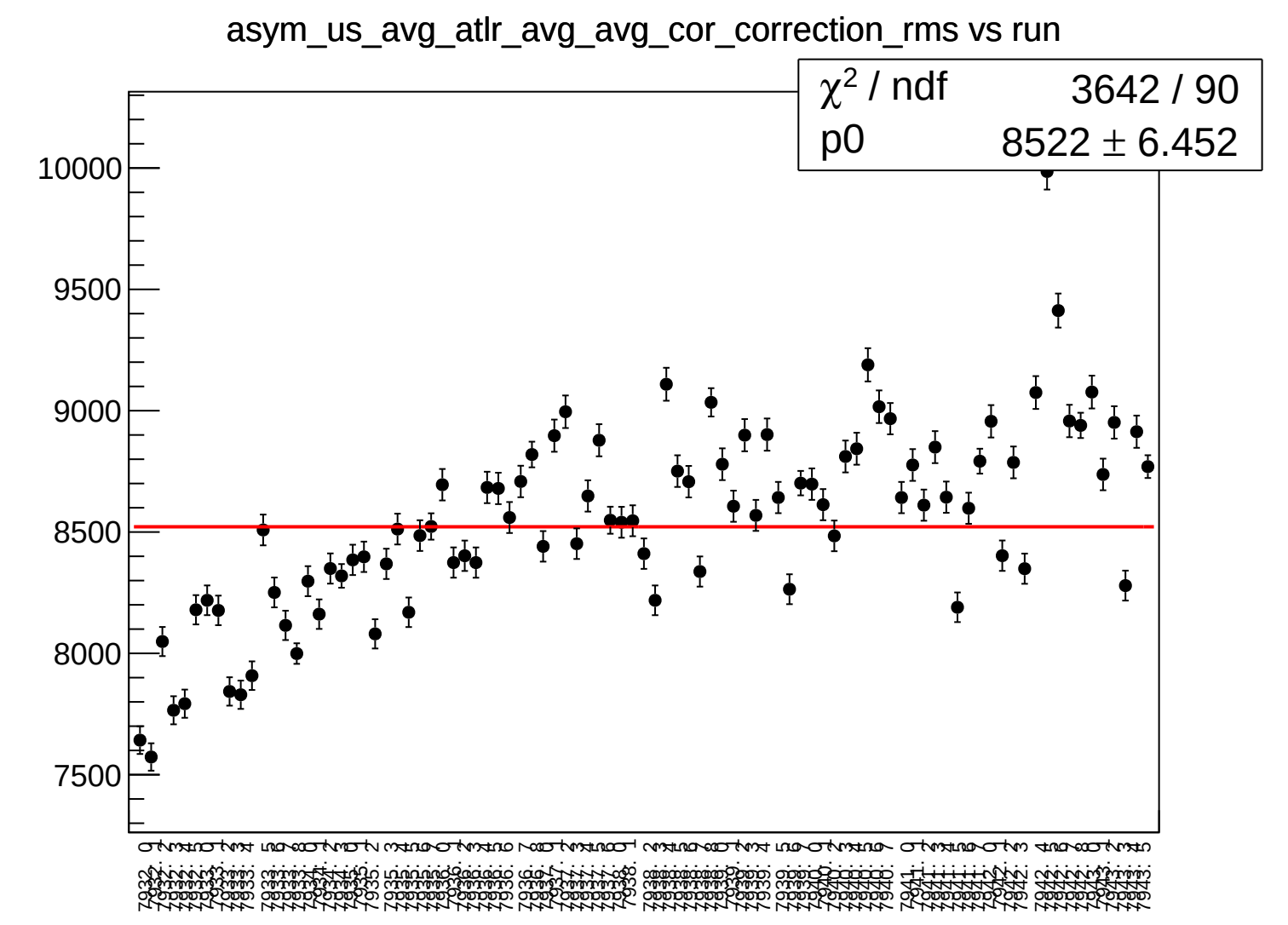

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3642 / 90
p0 8522 ± 6.452
10000
9500
9000
8500
8000
7500

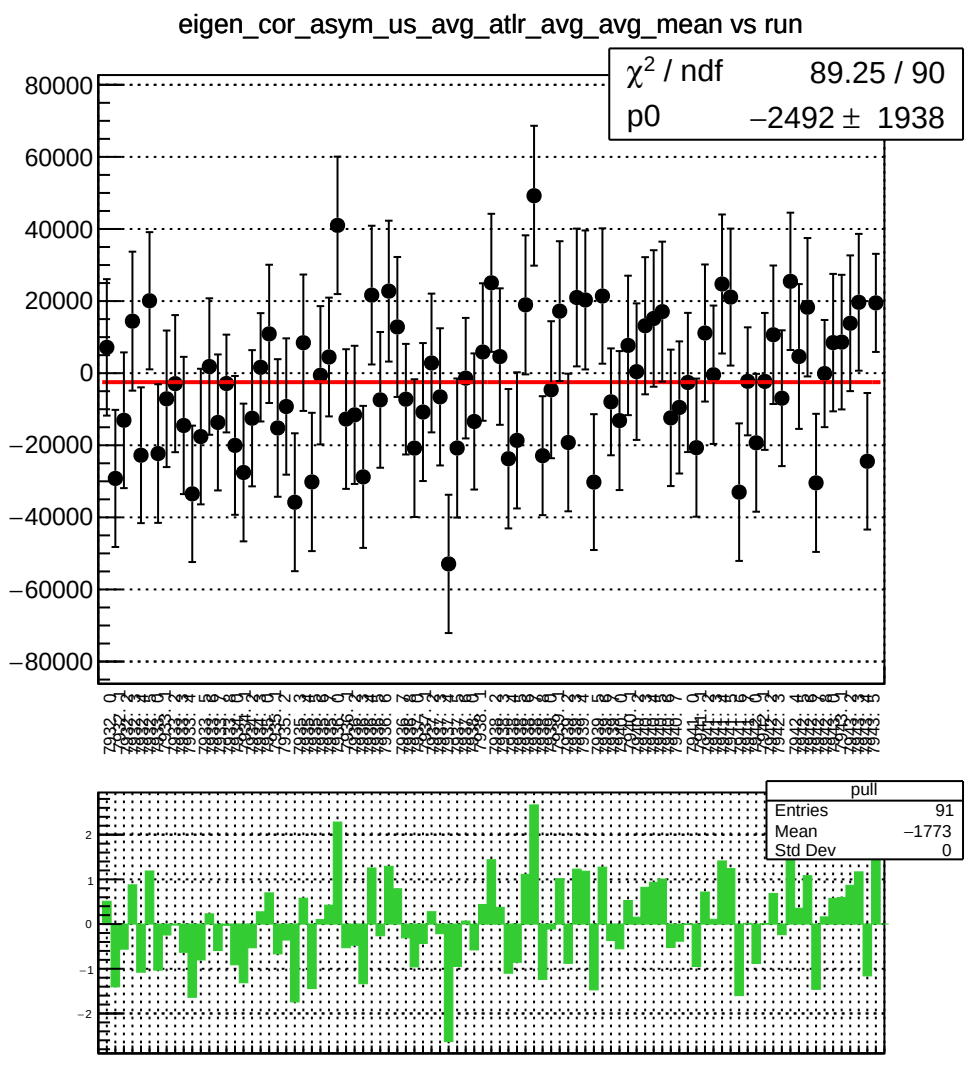

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 89.25 / 90
p0 −2492 ± 1938
pull
Entries 91
Mean −1773
Std Dev 0

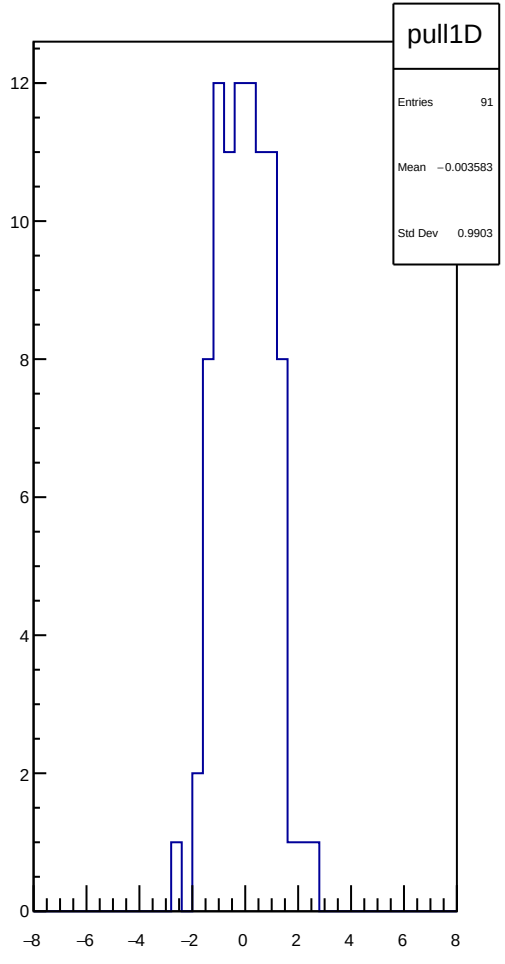

pull1D
Entries 91
Mean −0.003583
Std Dev 0.9903

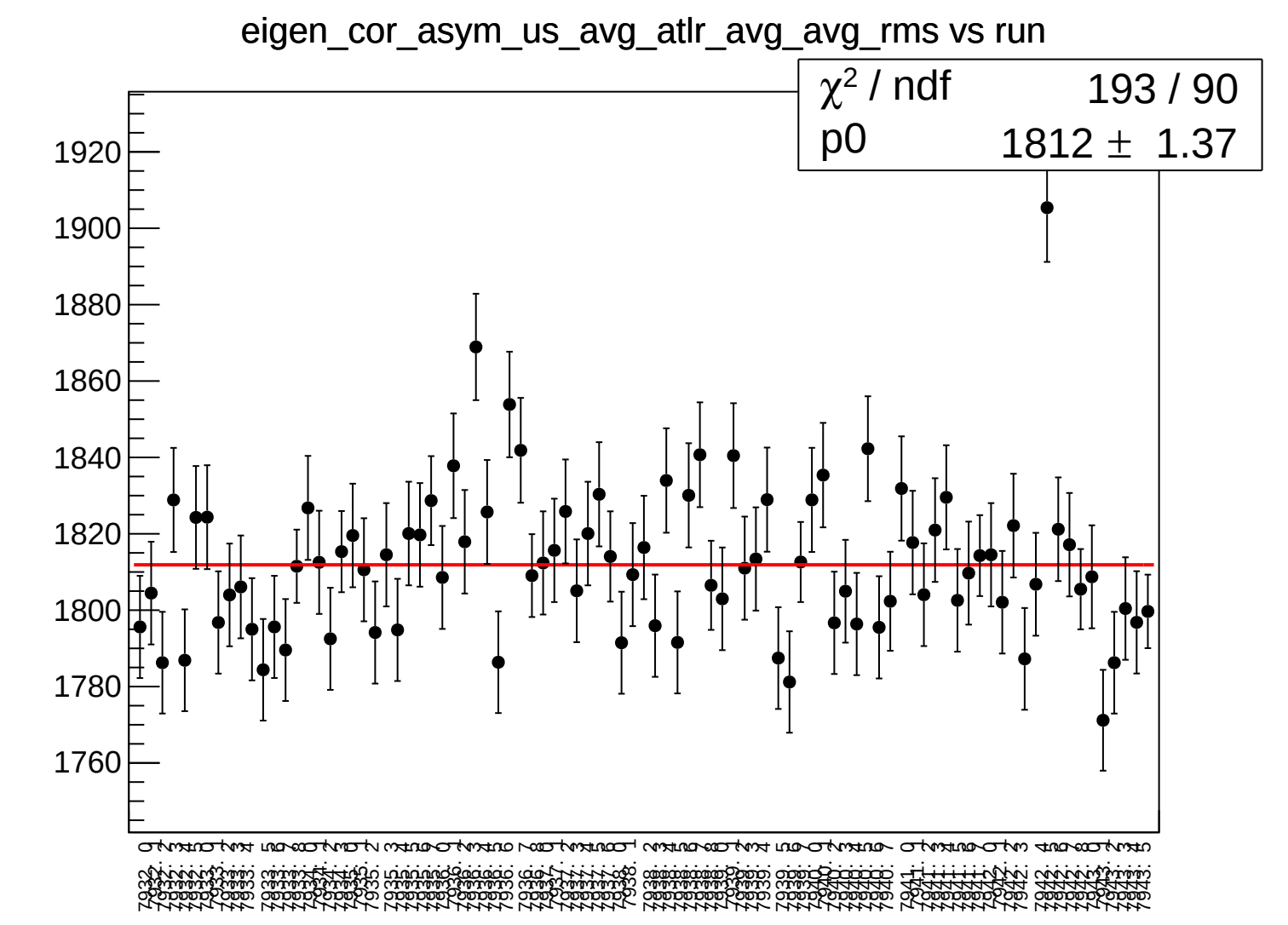

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 193 / 90
p0 1812 ± 1.37
1920
1900
1880
1860
1840
1820
1800
1780
1760

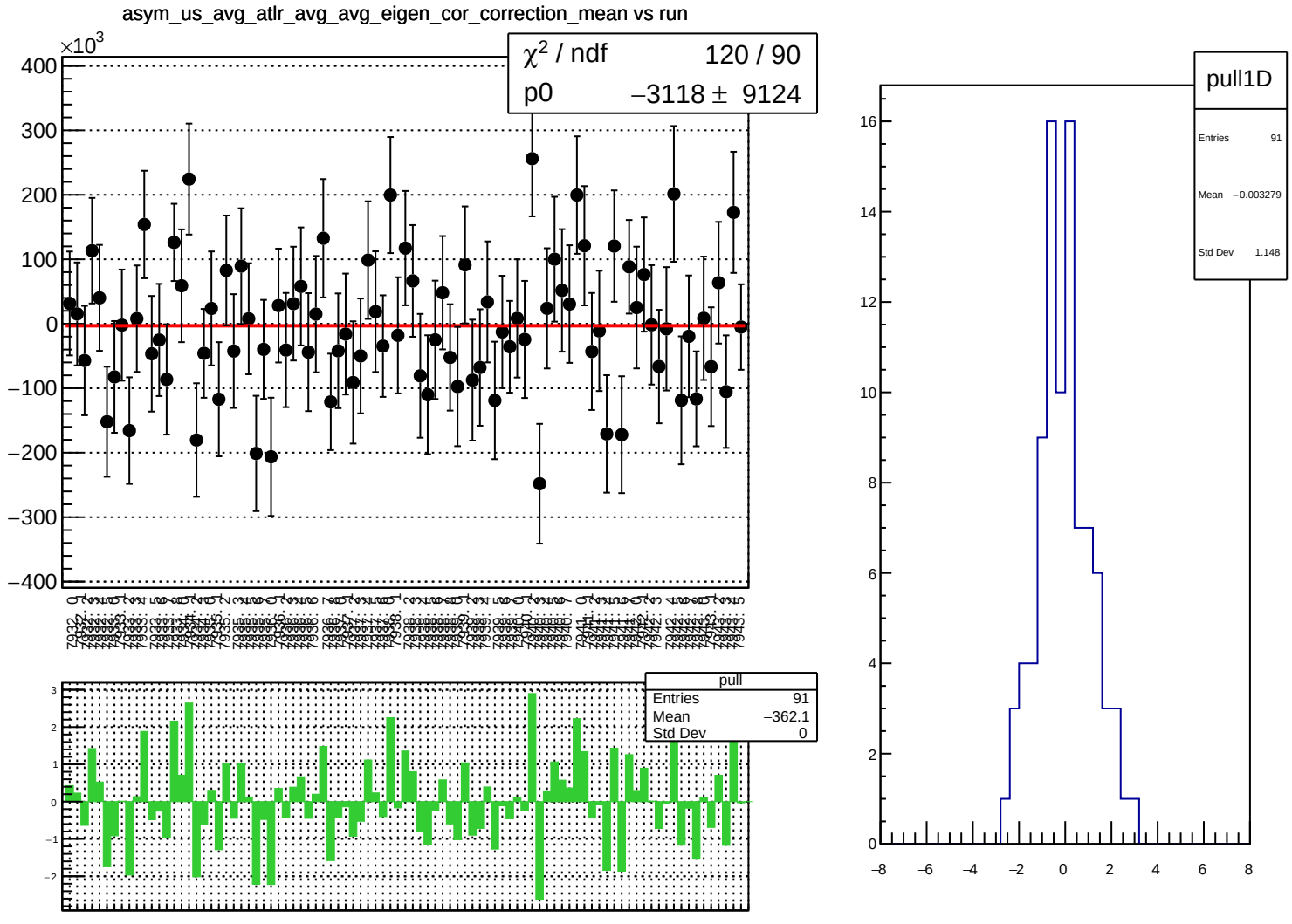

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 120 / 90
p0 −3118 ± 9124
pull
Entries 91
Mean −362.1
Std Dev 0
pull1D
Entries 91
Mean −0.003279
Std Dev 1.148

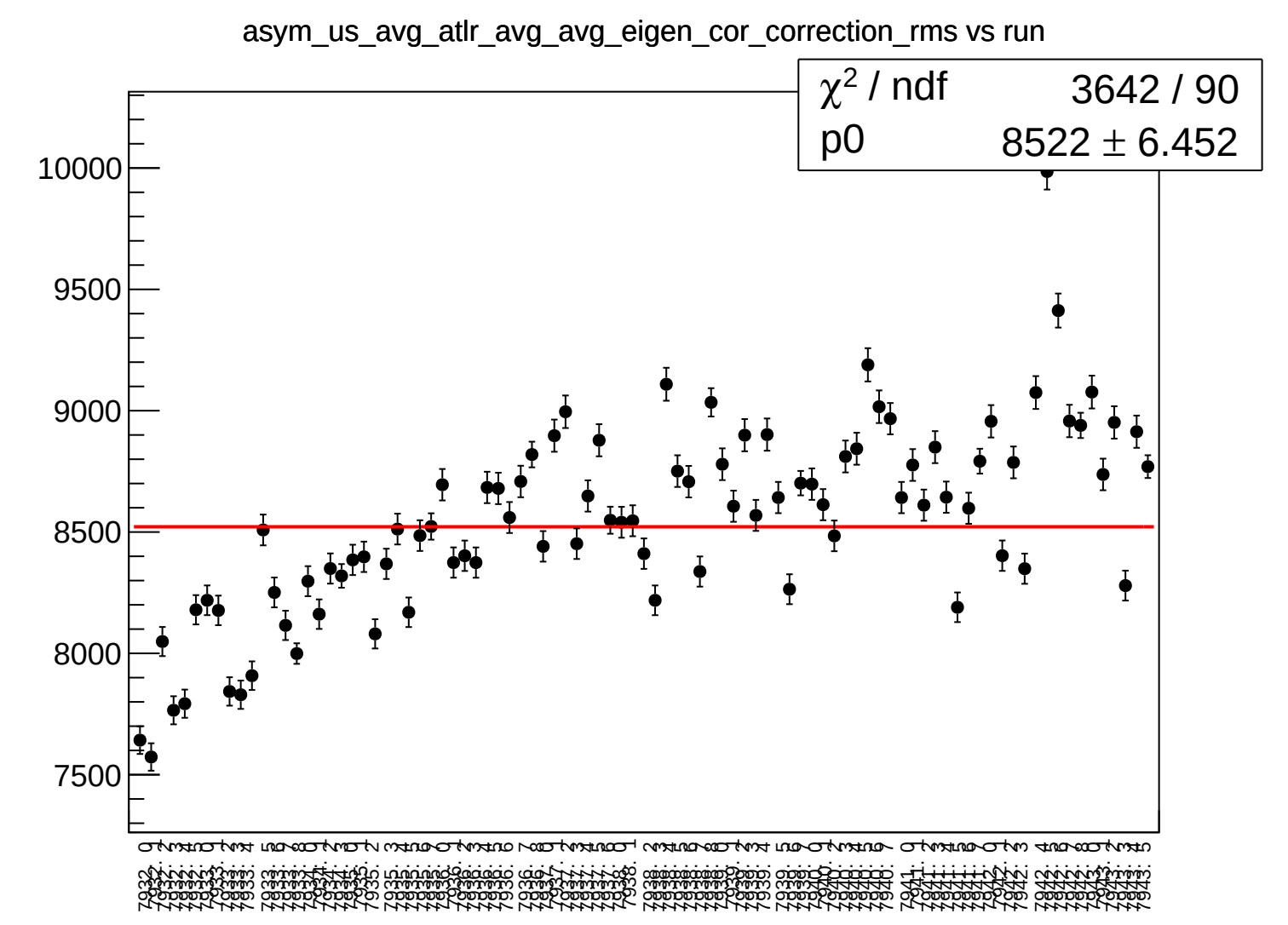

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 3642 / 90
p0 8522 ± 6.452
10000
9500
9000
8500
8000
7500

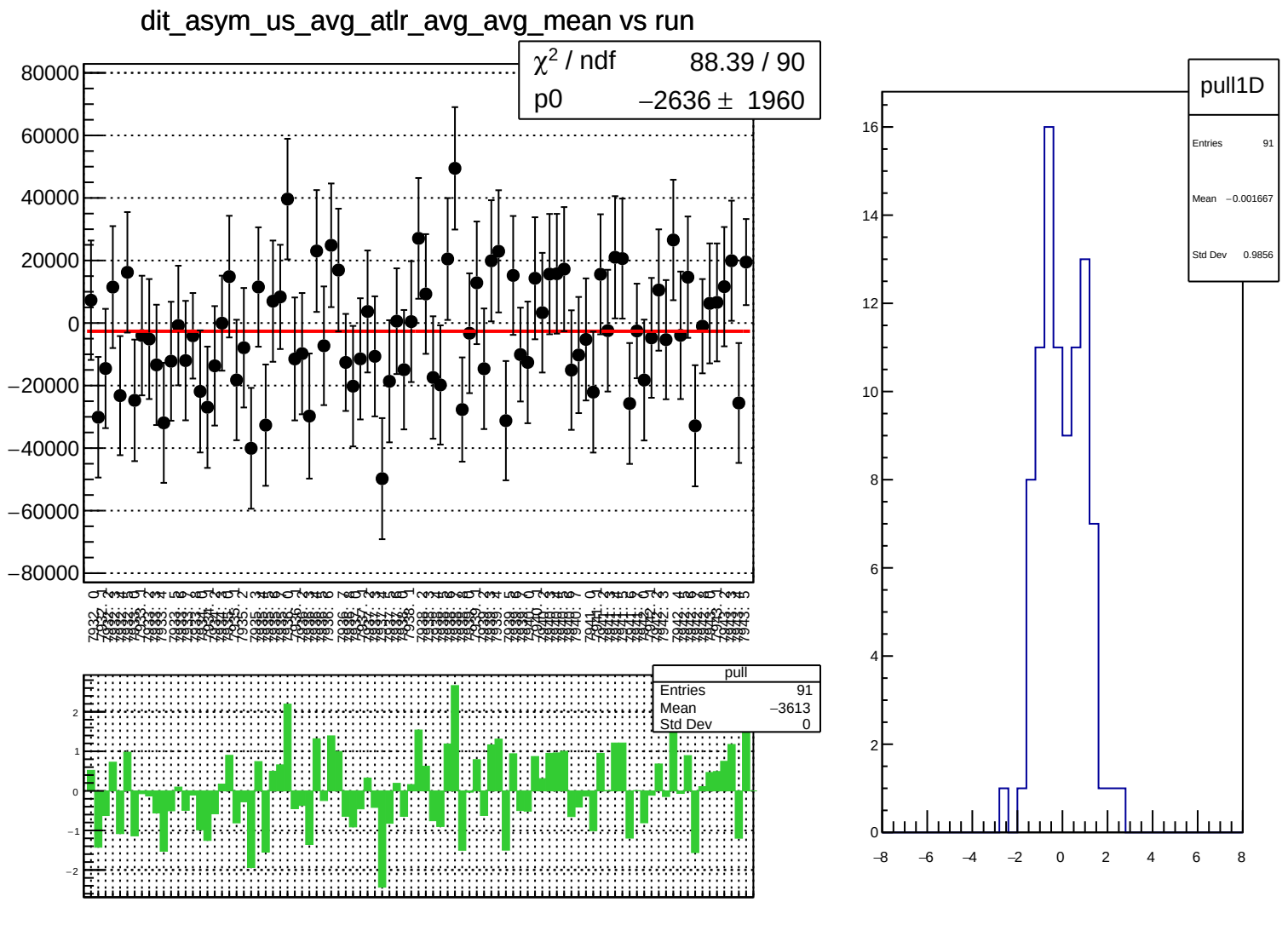

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 89.25 / 90
p0 −2492 ± 1938
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −1773
Std Dev 0
2
1
0
−1
−2

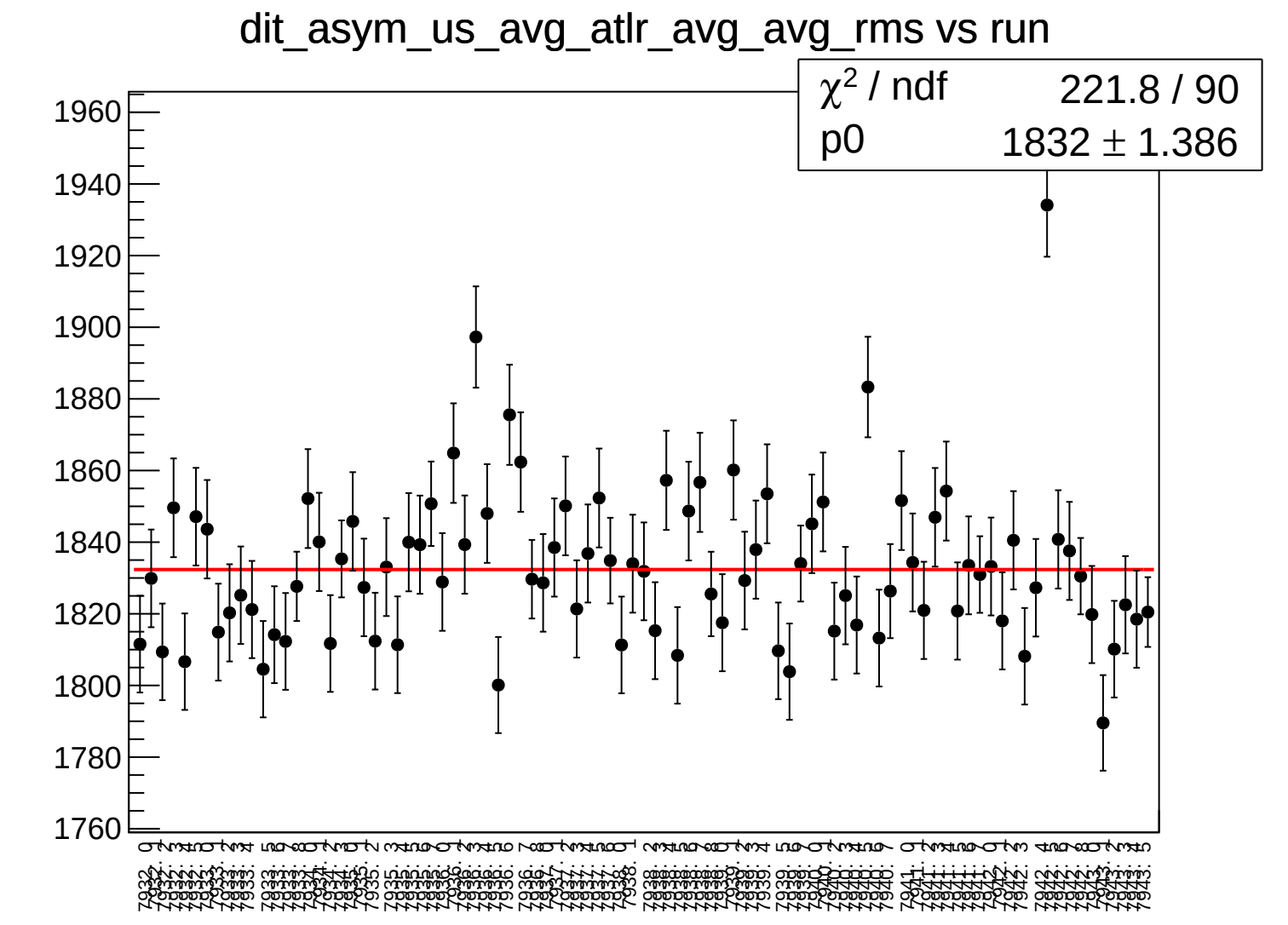

pull1D
Entries 91
Mean −0.003583
Std Dev 0.9903
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

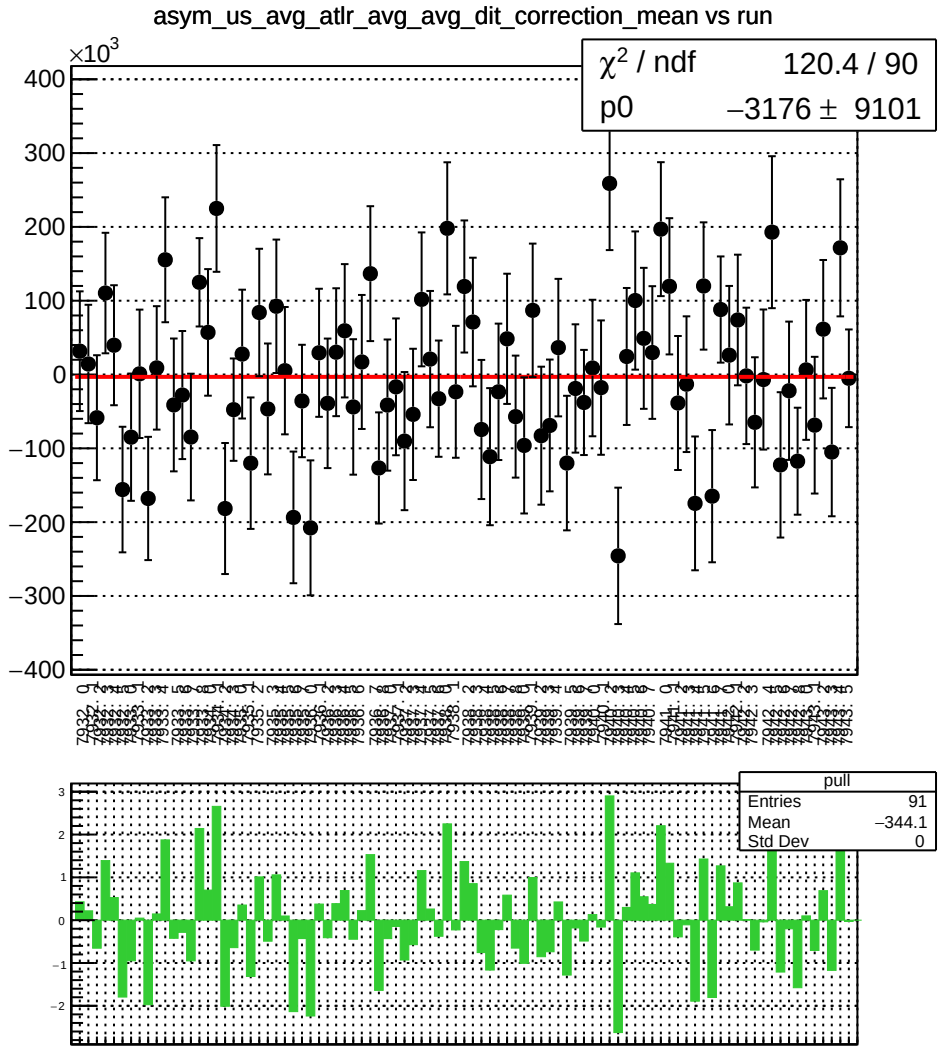

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 193 / 90
p0 1812 ± 1.37
1920
1900
1880
1860
1840
1820
1800
1780
1760

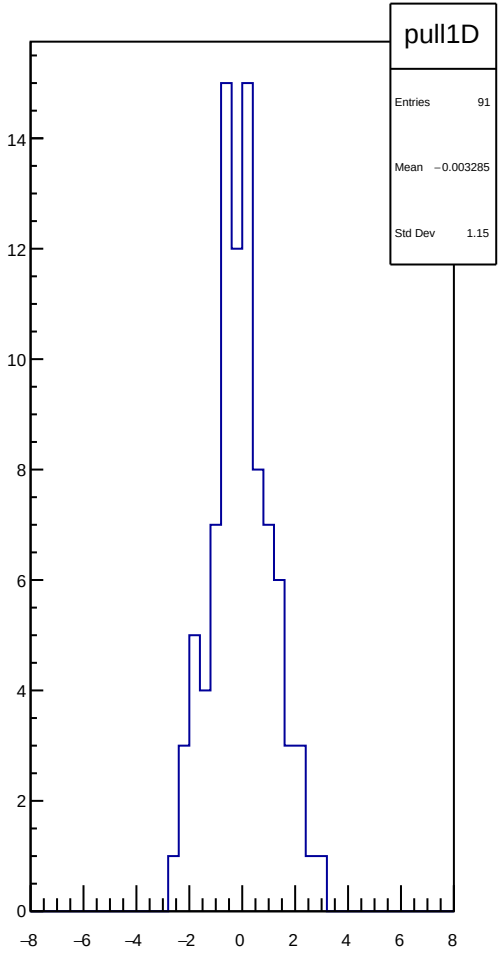

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 120 / 90
p0 −3118 ± 9124
pull
Entries 91
Mean −362.1
Std Dev 0
pull1D
Entries 91
Mean −0.003279
Std Dev 1.148

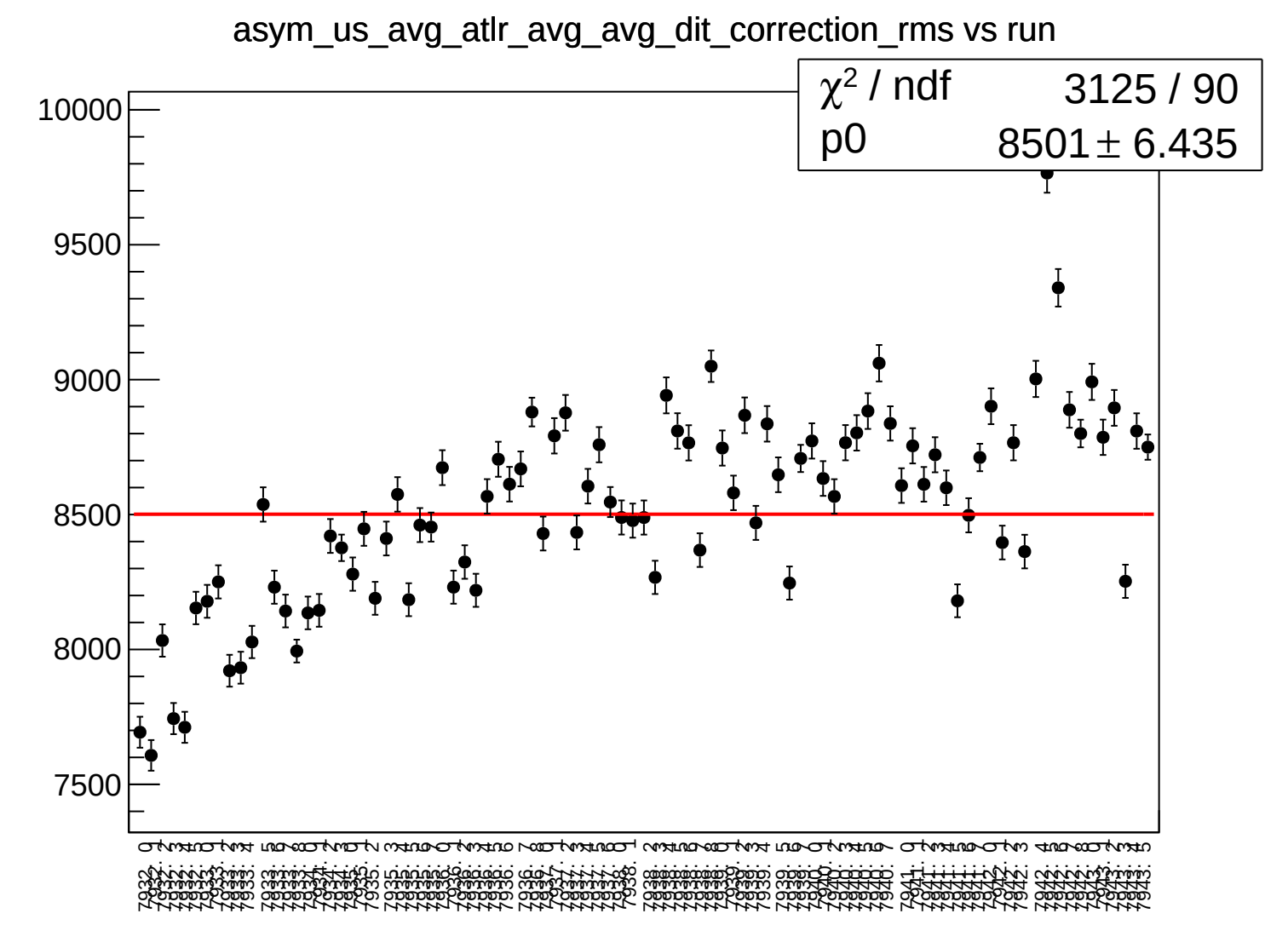

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3642 / 90
p0 8522 ± 6.452
10000
9500
9000
8500
8000
7500

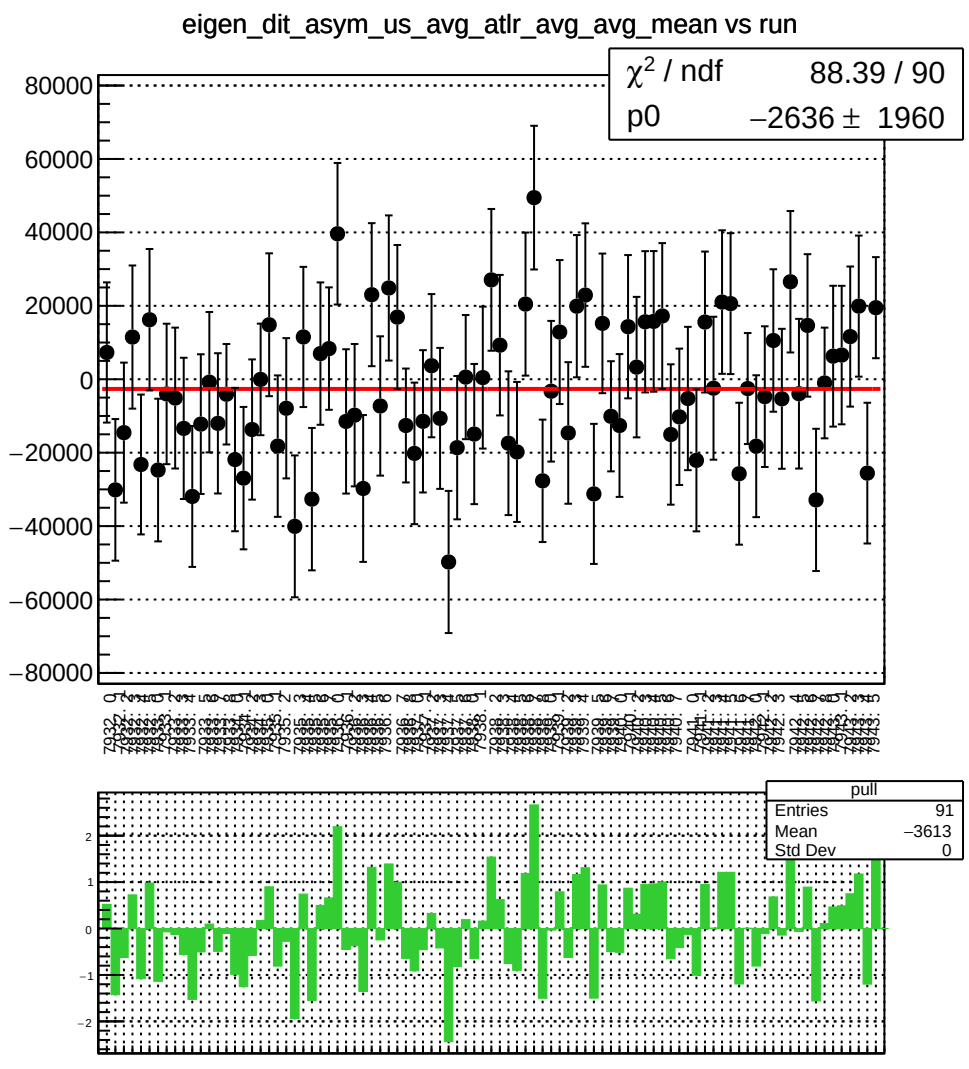

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 88.39 / 90
p0 −2636 ± 1960
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −3613
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001667
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

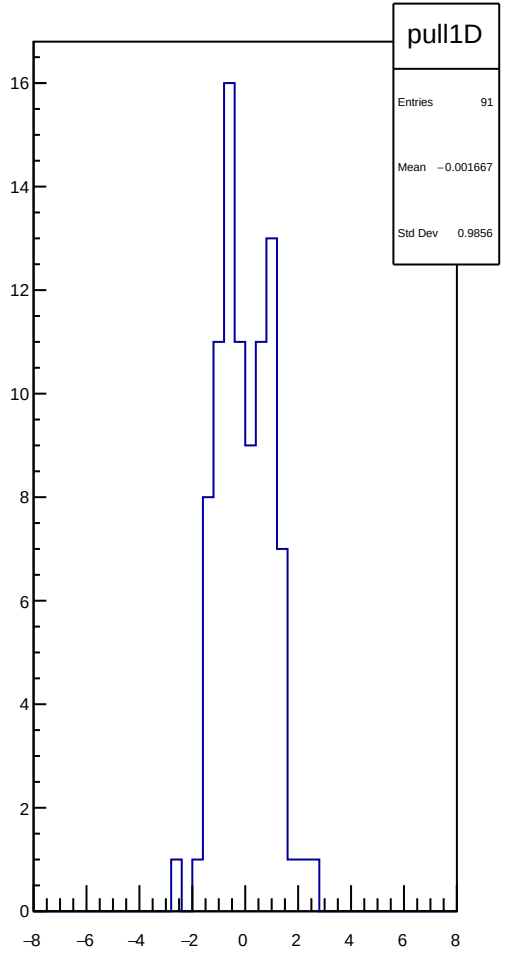

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 221.8 / 90
p0 1832 ± 1.386
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

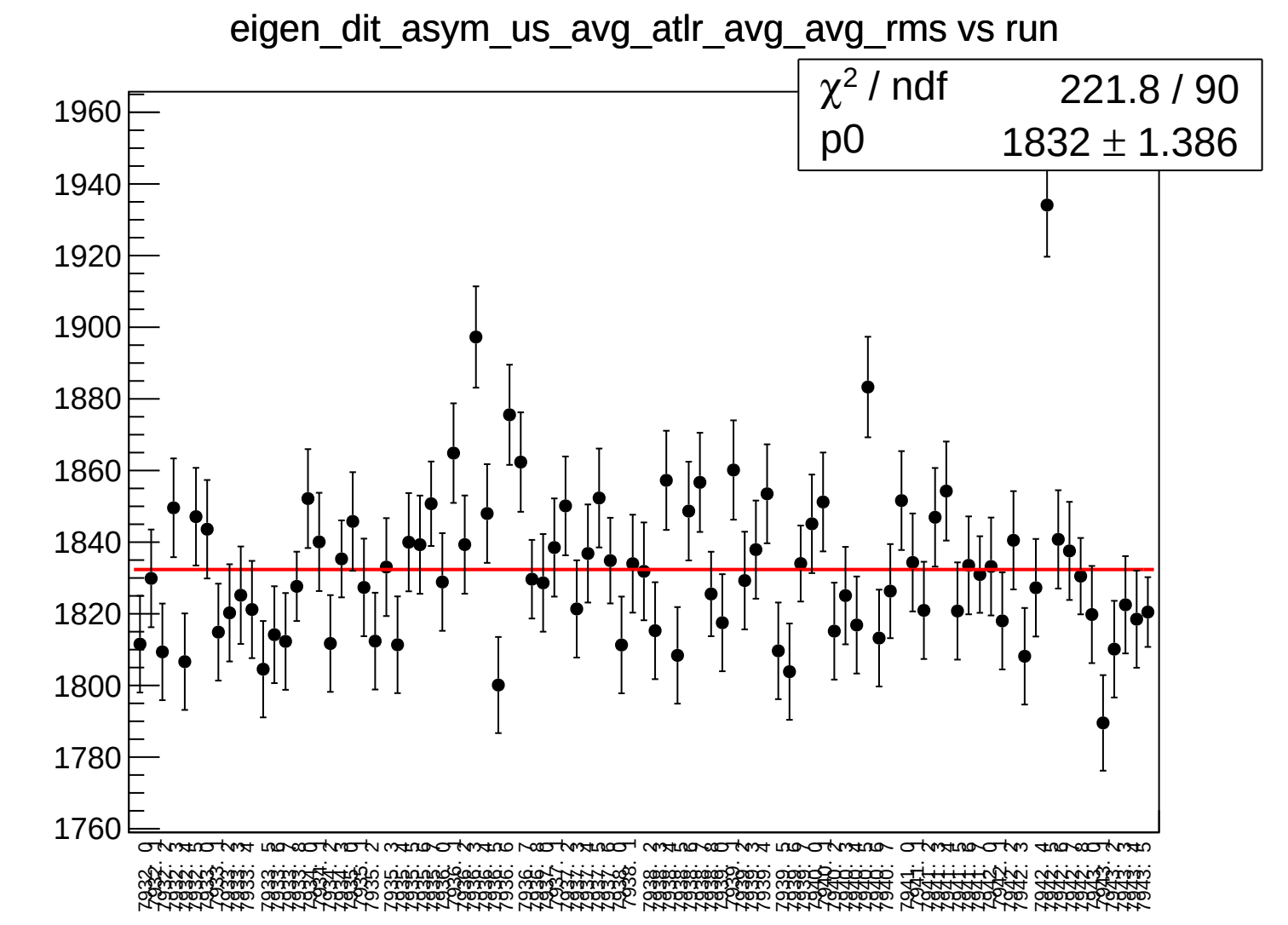

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 −3176 ± 9101
pull
Entries 91
Mean −344.1
Std Dev 0

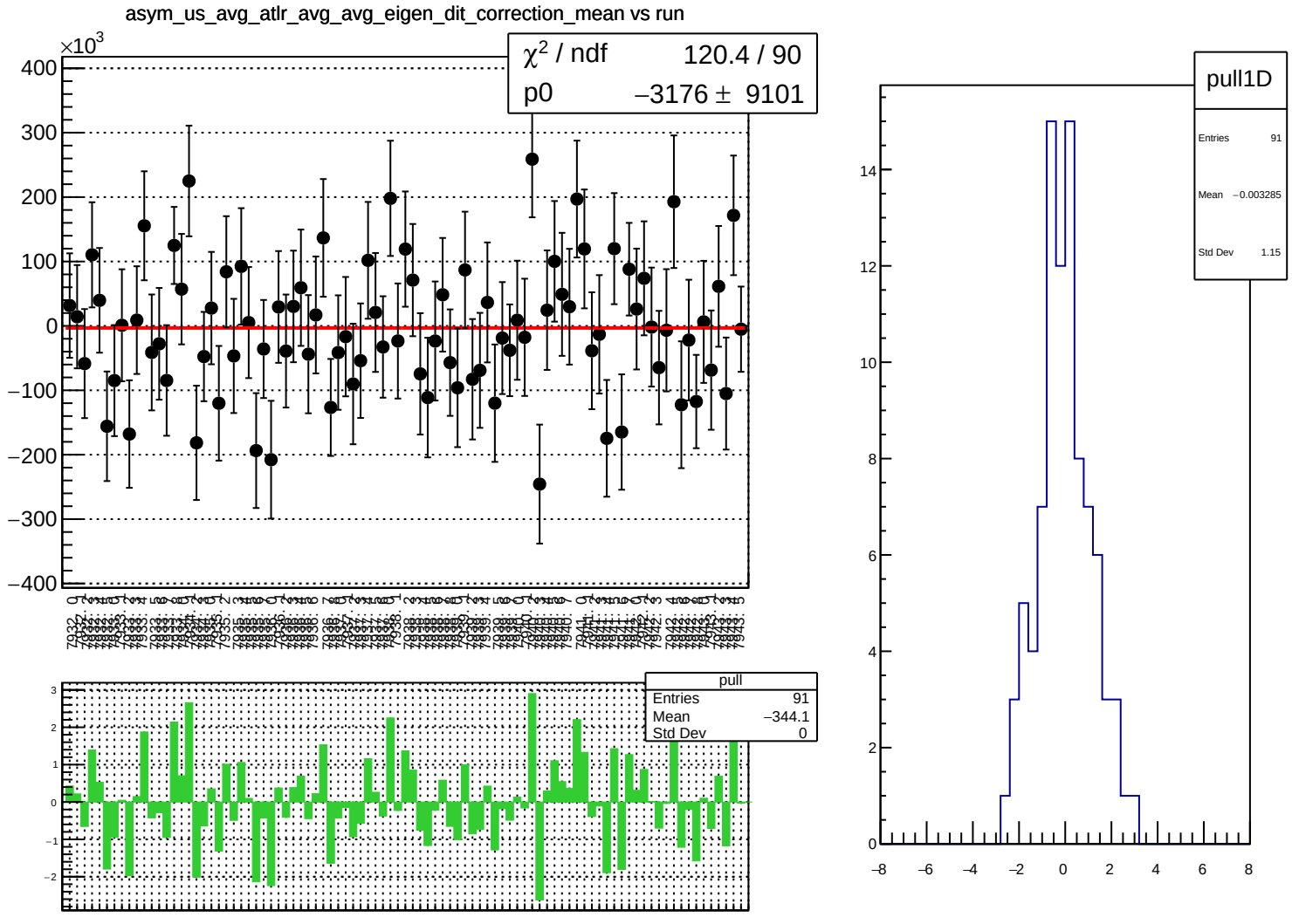

pull1D
Entries 91
Mean −0.003285
Std Dev 1.15

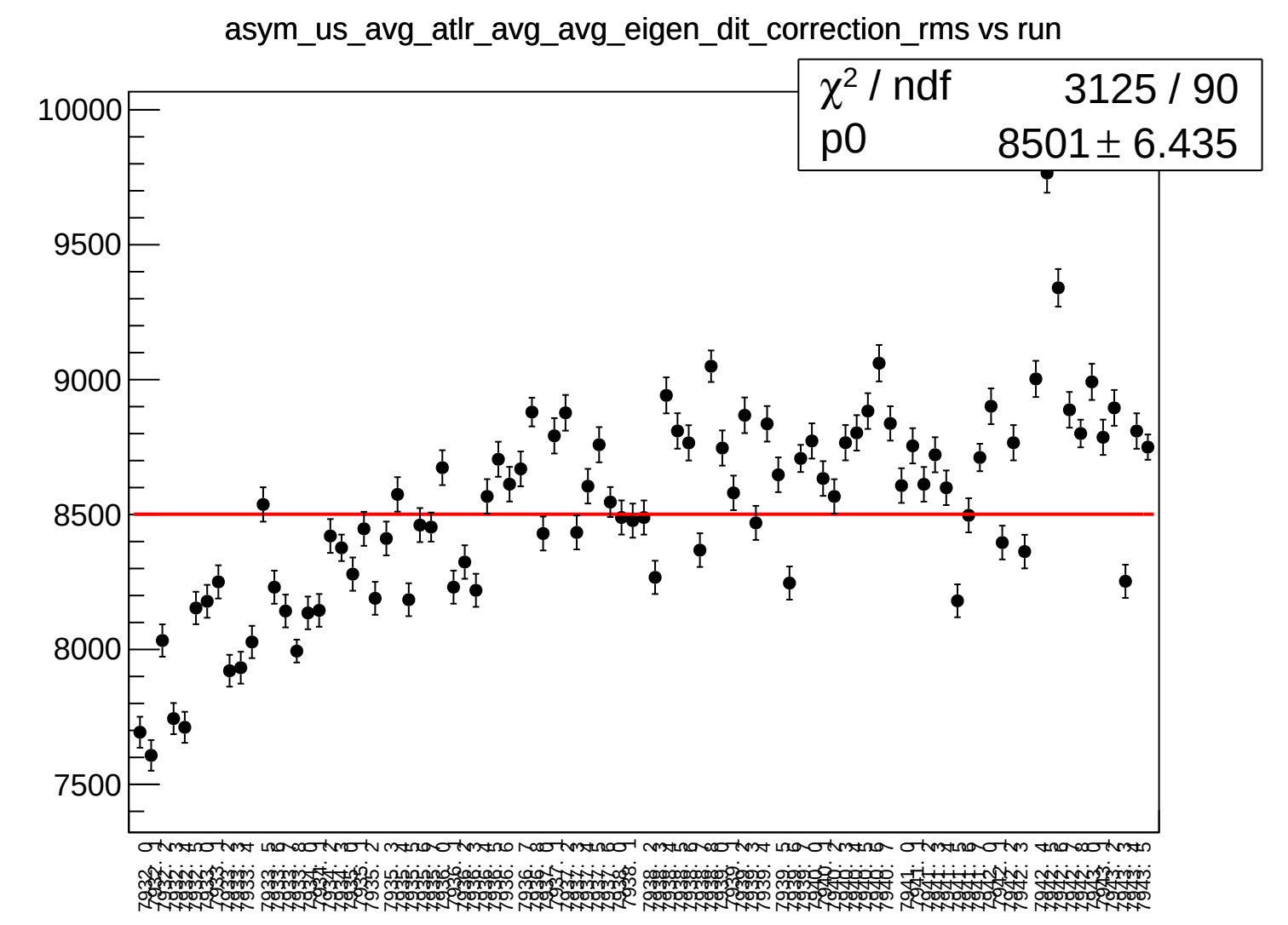

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3125 / 90
p0 8501 ± 6.435
10000
9500
9000
8500
8000
7500

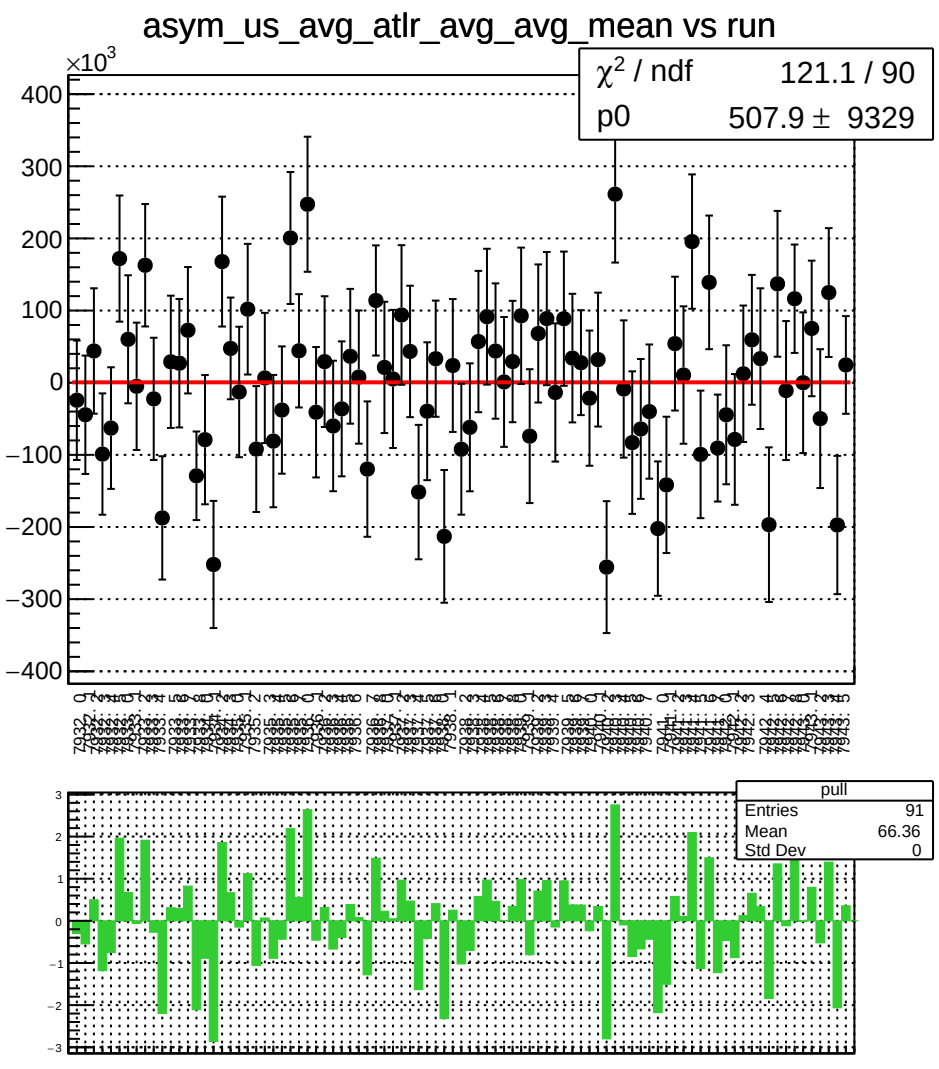

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 88.39 / 90
p0 −2636 ± 1960
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −3613
Std Dev 0
2
1
0
−1
−2

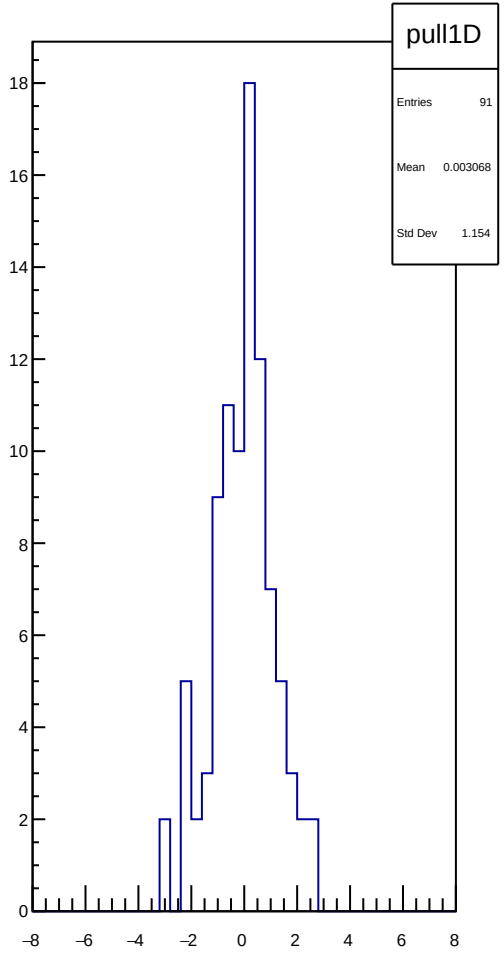

pull1D
Entries 91
Mean −0.001667
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

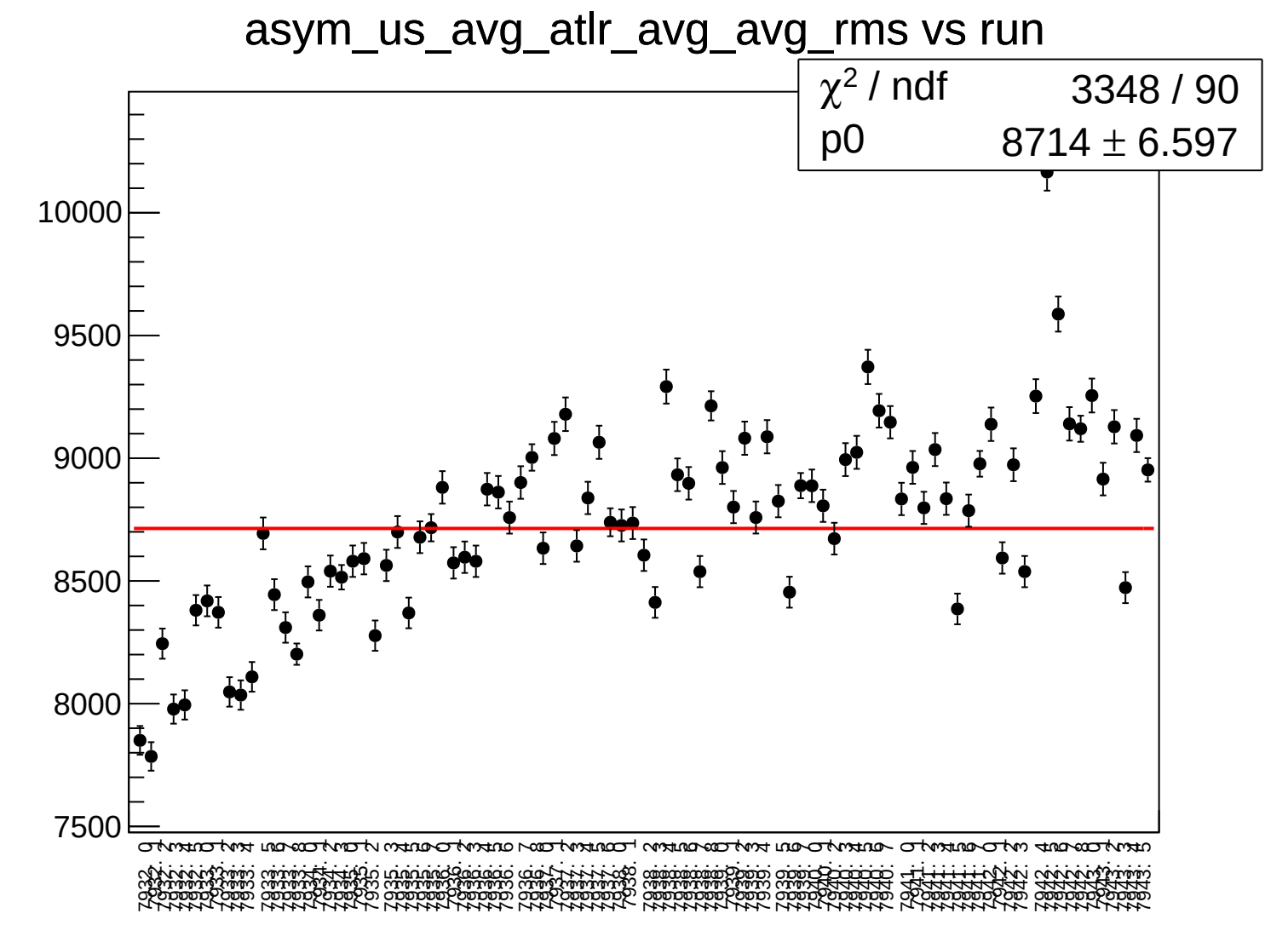

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 221.8 / 90
p0 1832 ± 1.386
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

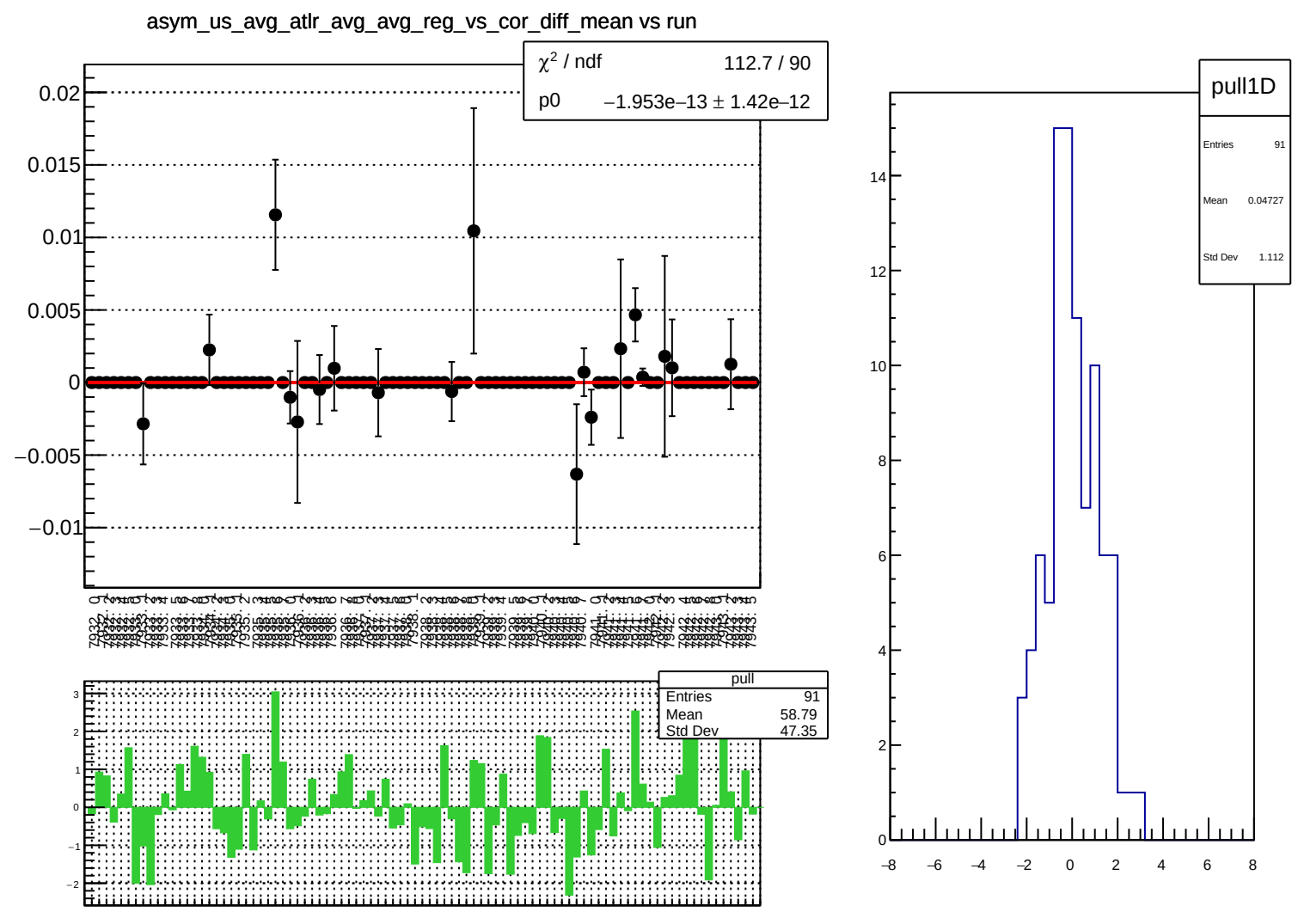

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 120.4 / 90
p0 −3176 ± 9101
pull
Entries 91
Mean −344.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.003285
Std Dev 1.15
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

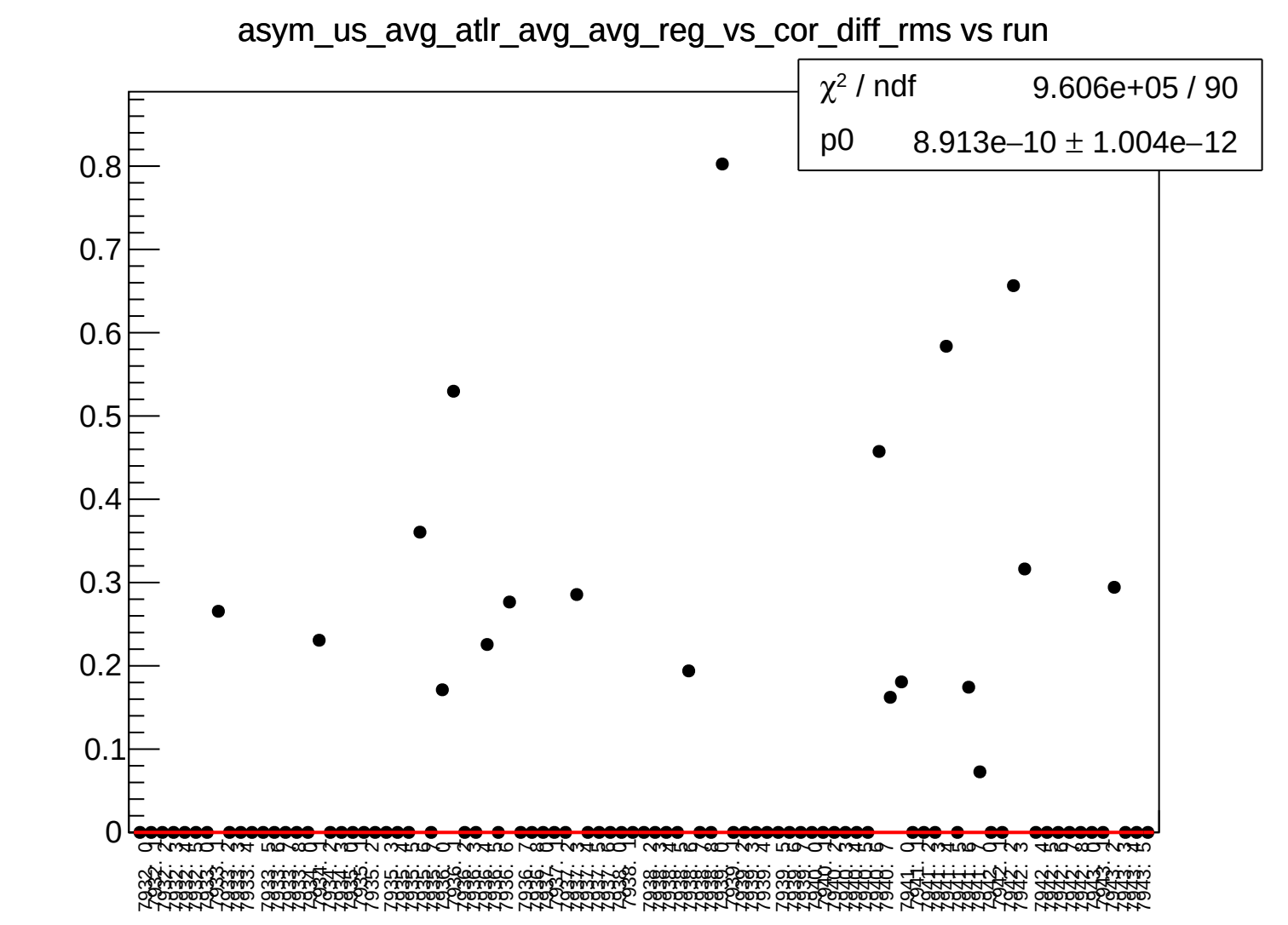

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 3125 / 90
p0 8501 ± 6.435
10000
9500
9000
8500
8000
7500

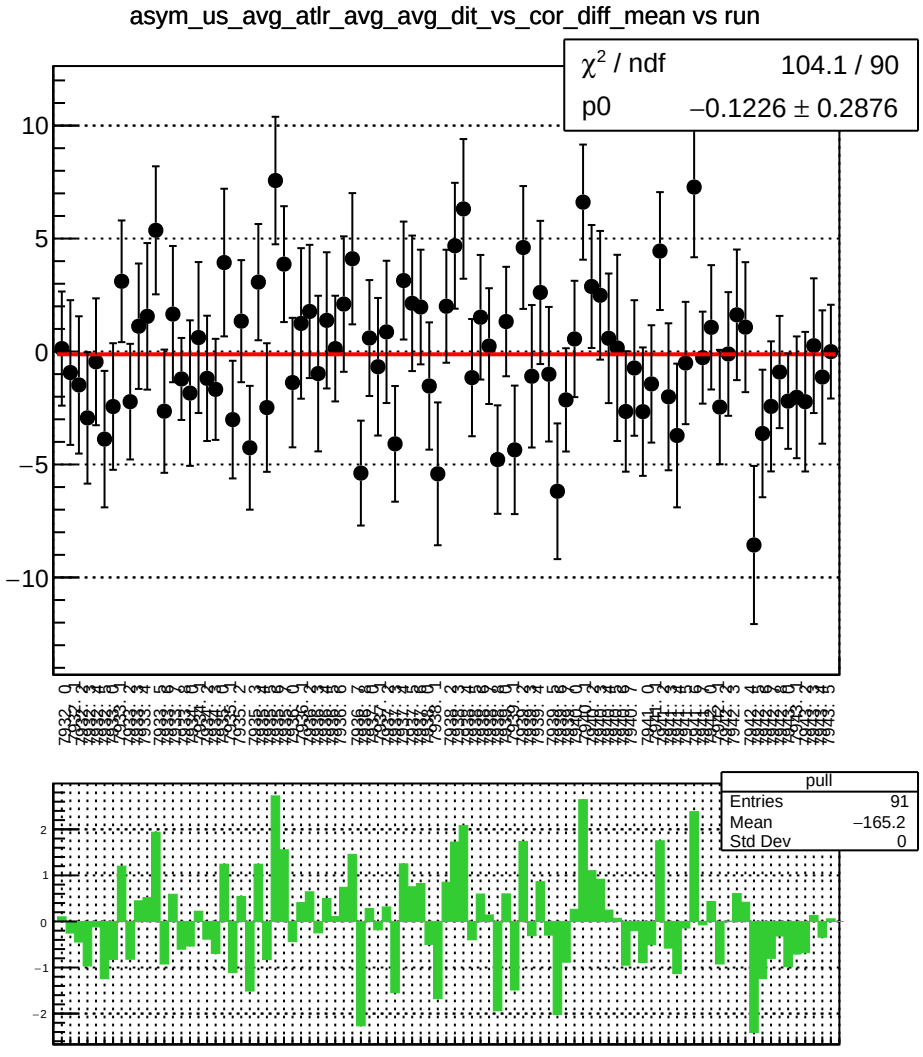

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 121.1 / 90
p0 507.9 ± 9329
pull
Entries 91
Mean 66.36
Std Dev 0

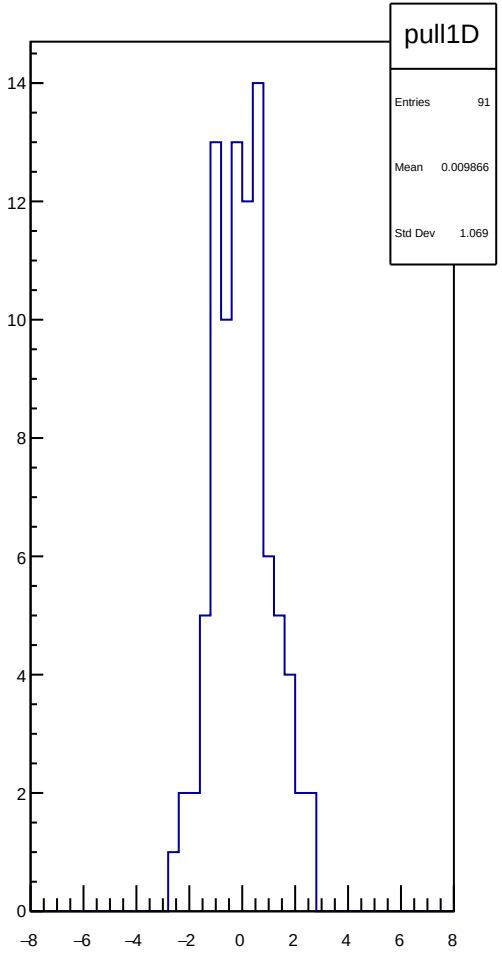

pull1D
Entries 91
Mean 0.003068
Std Dev 1.154

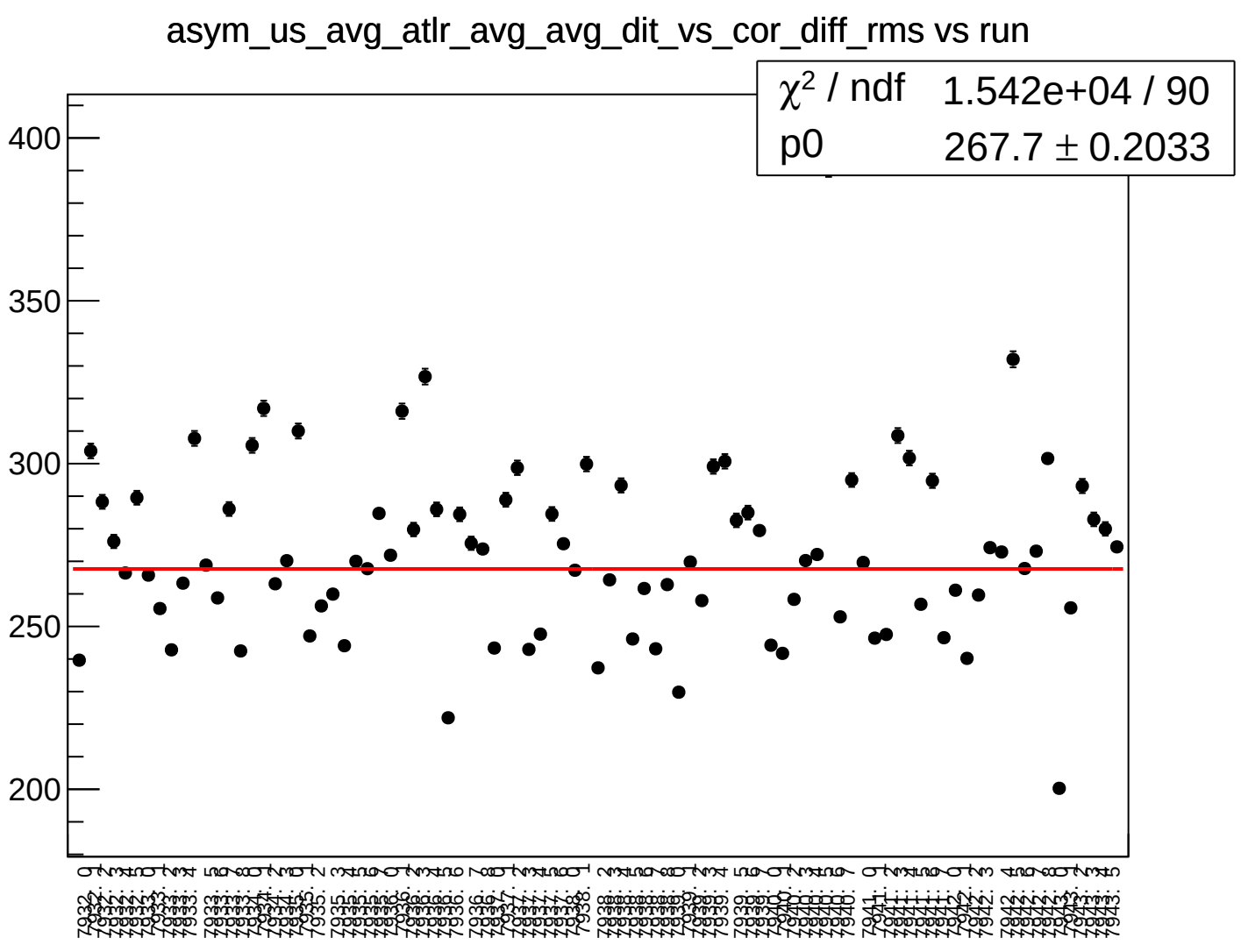

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 3348 / 90
p0 8714 ± 6.597
10000
9500
9000
8500
8000
7500

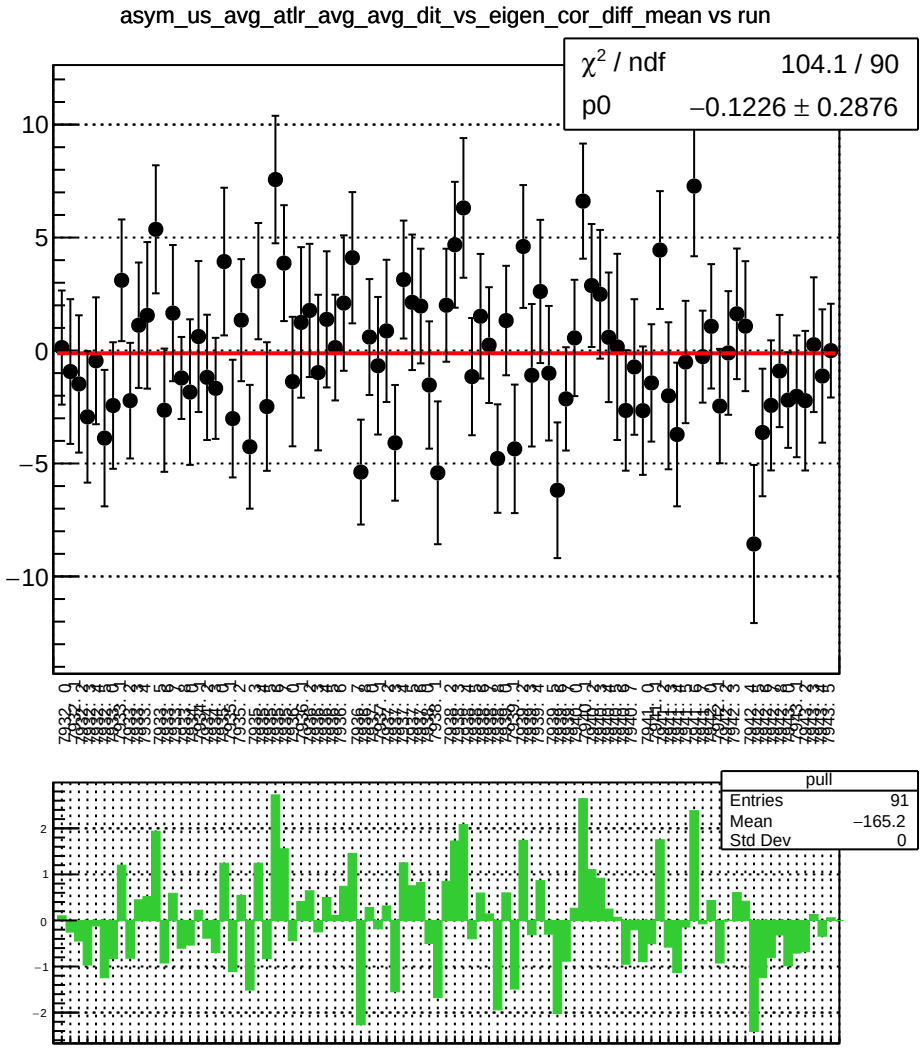

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 90
p0 −1.953e−13 ± 1.42e−12
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 58.79
Std Dev 47.35
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.04727
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

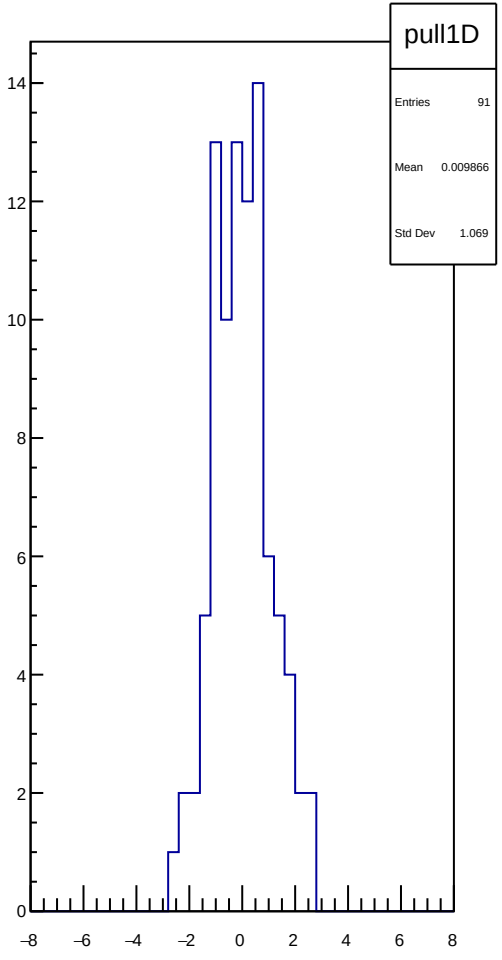

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.606e+05 / 90
p0 8.913e−10 ± 1.004e−12
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

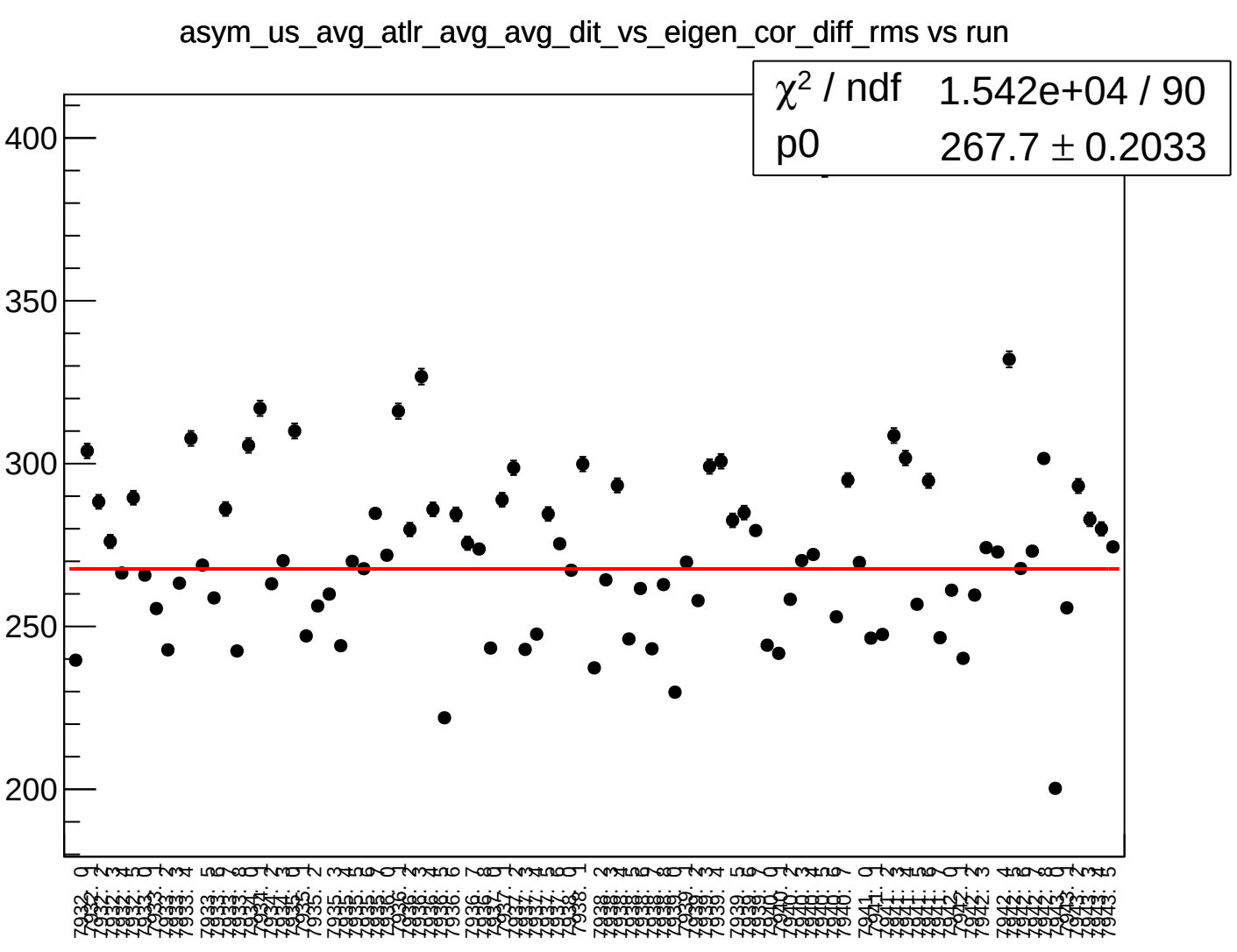

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 90
p0 −0.1226 ± 0.2876
pull
Entries 91
Mean −165.2
Std Dev 0

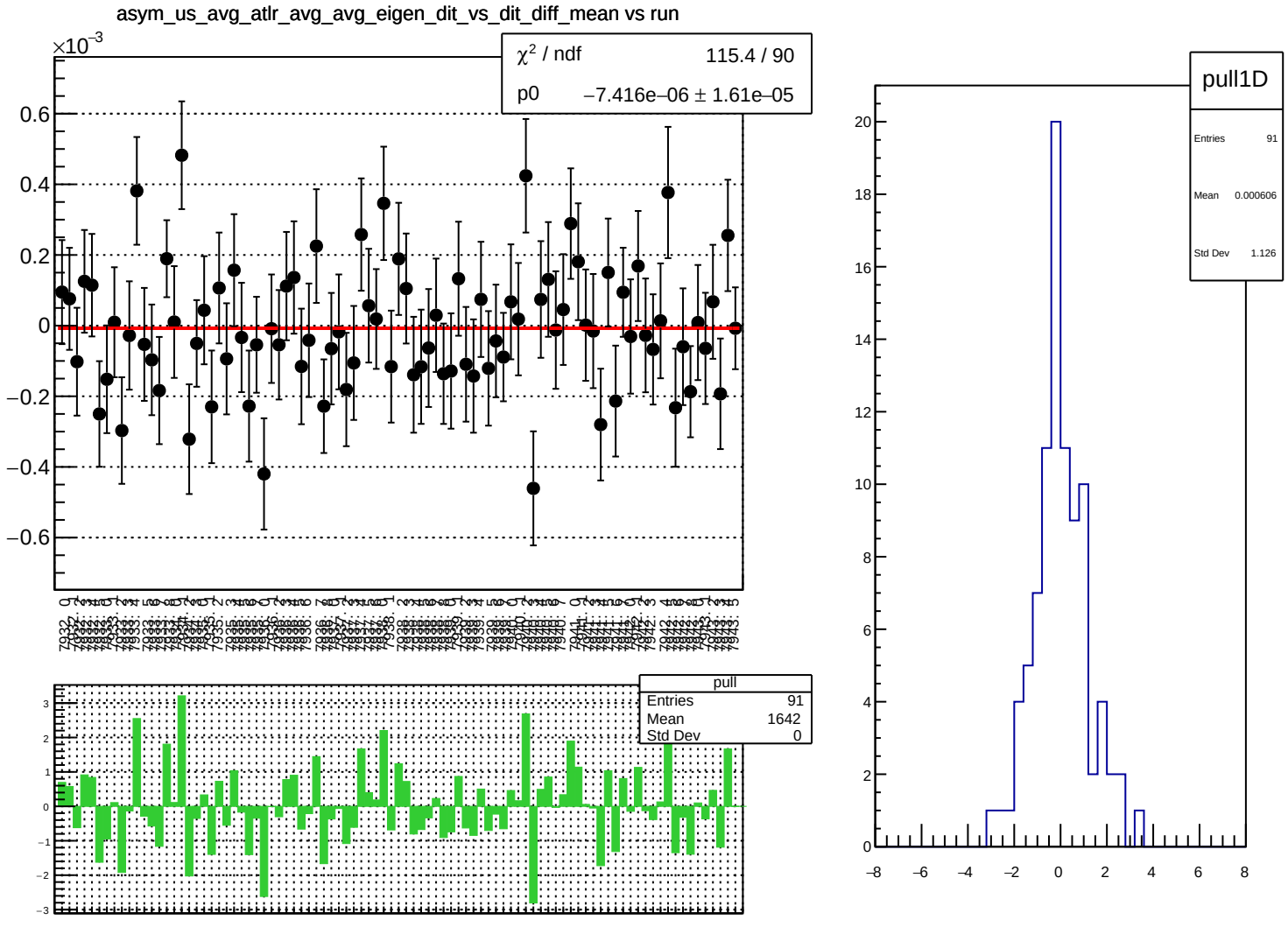

pull1D
Entries 91
Mean 0.009866
Std Dev 1.069

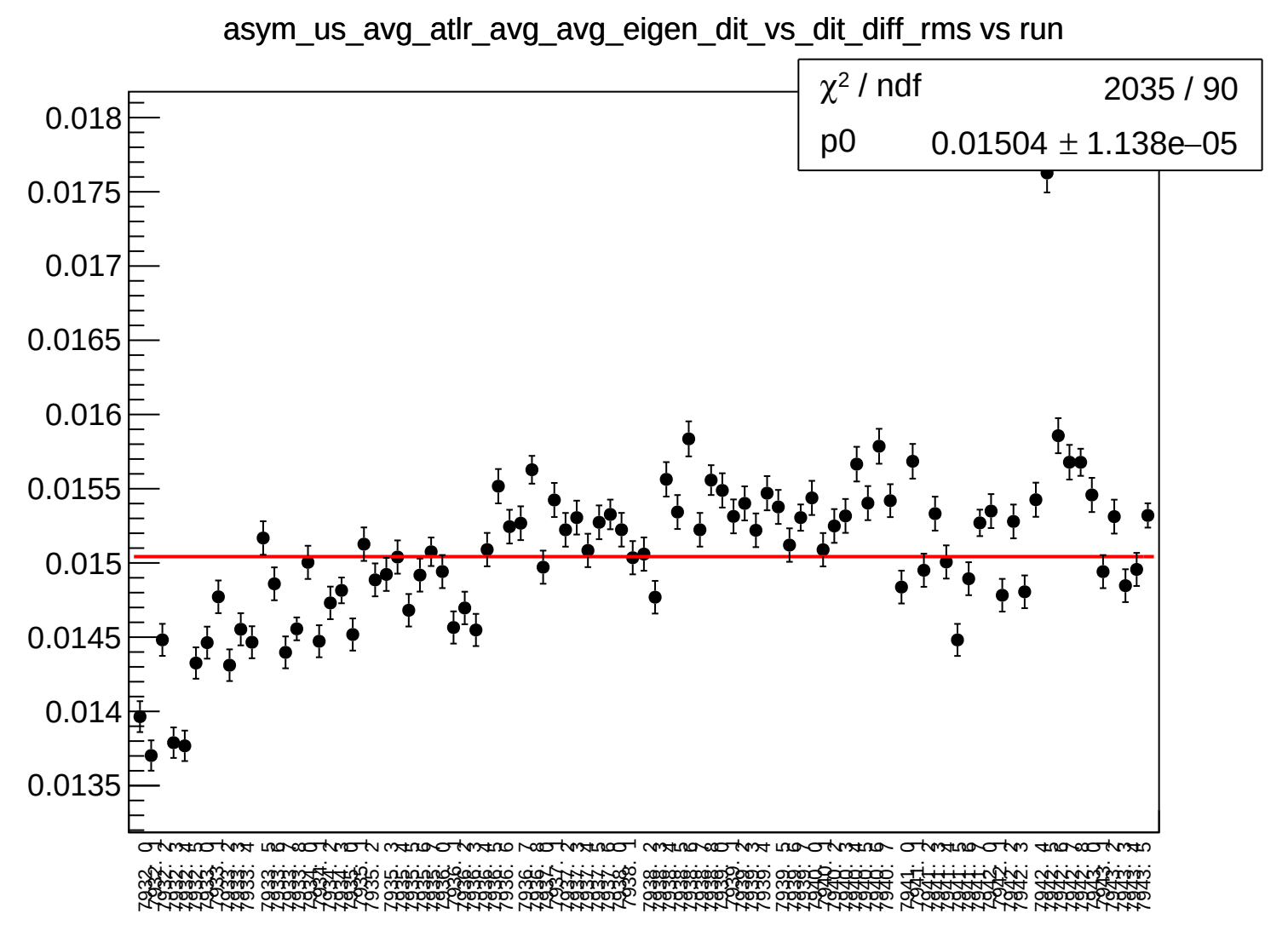

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.542e+04 / 90
p0 267.7 ± 0.2033
400
350
300
250
200

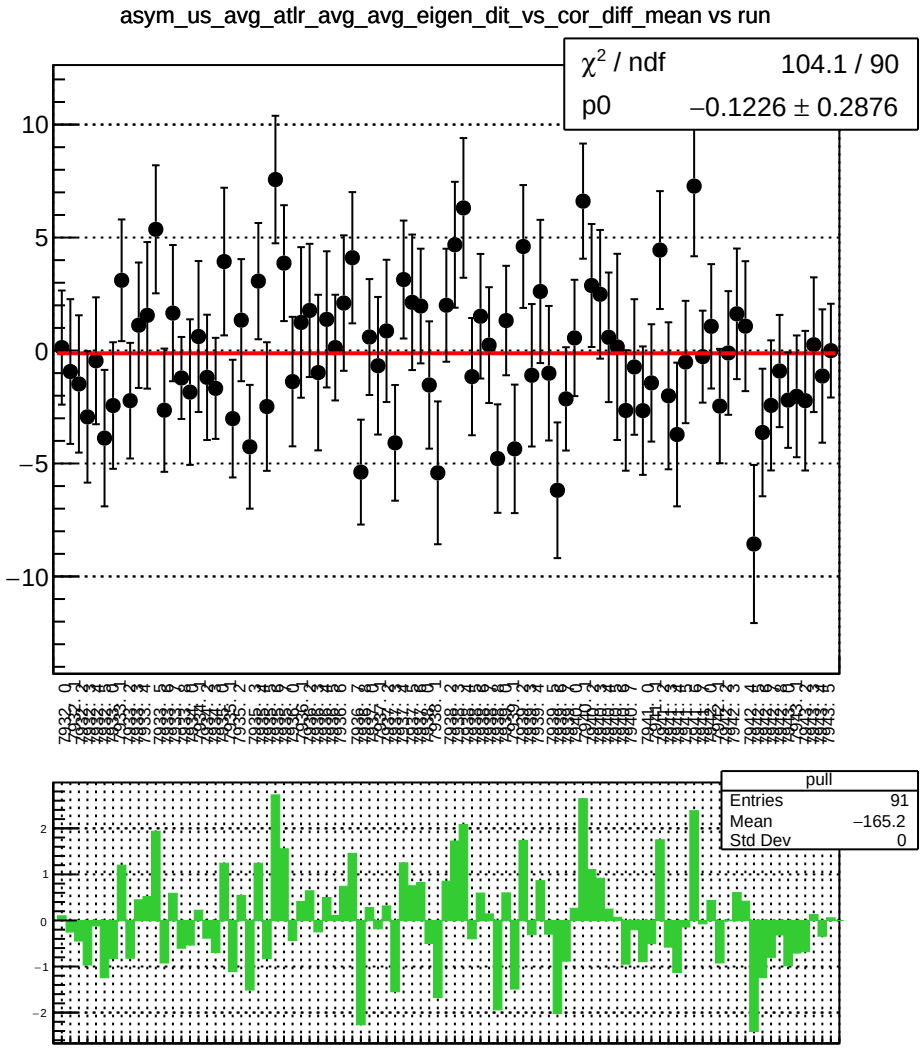

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 104.1 / 90
p0 −0.1226 ± 0.2876
pull
Entries 91
Mean −165.2
Std Dev 0

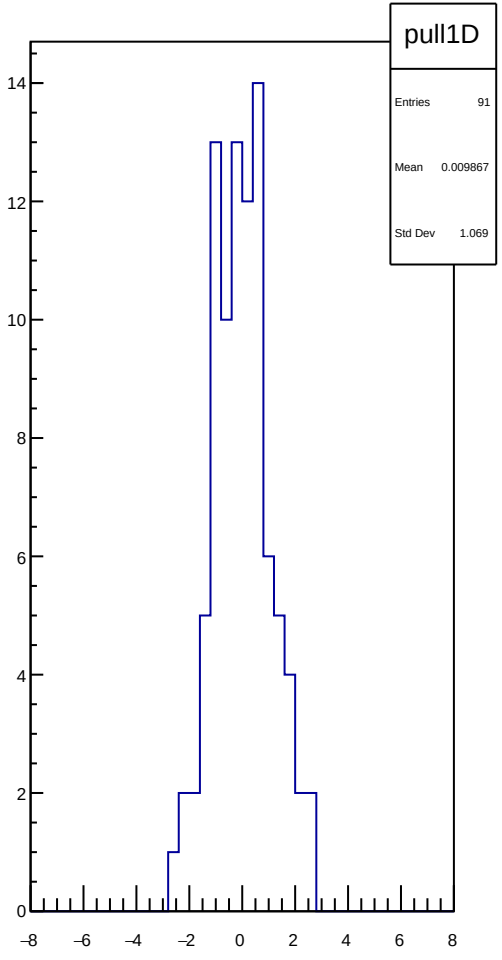

pull1D
Entries 91
Mean 0.009866
Std Dev 1.069

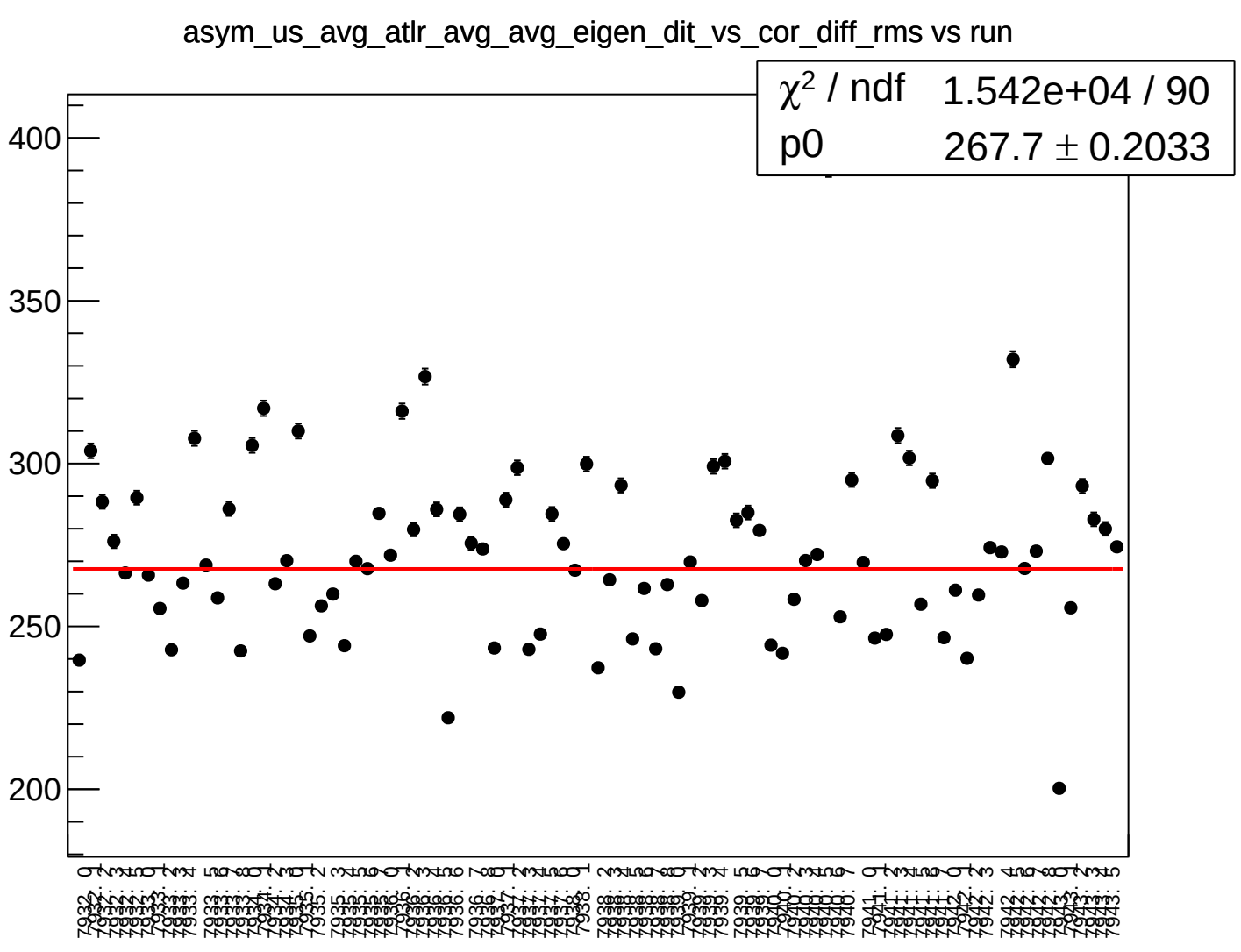

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.542e+04 / 90
p0 267.7 ± 0.2033
400
350
300
250
200

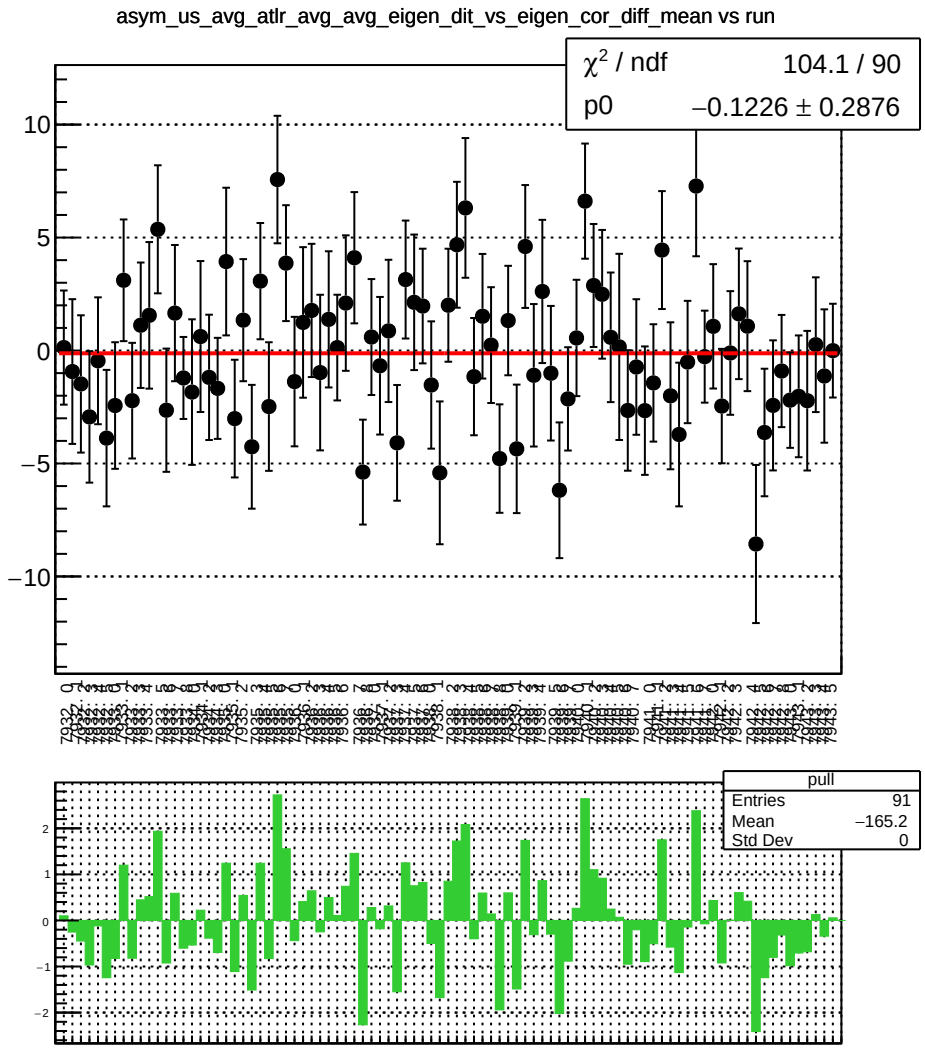

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.4 / 90
p0 −7.416e−06 ± 1.61e−05
pull
Entries 91
Mean 1642
Std Dev 0
pull1D
Entries 91
Mean 0.000606
Std Dev 1.126

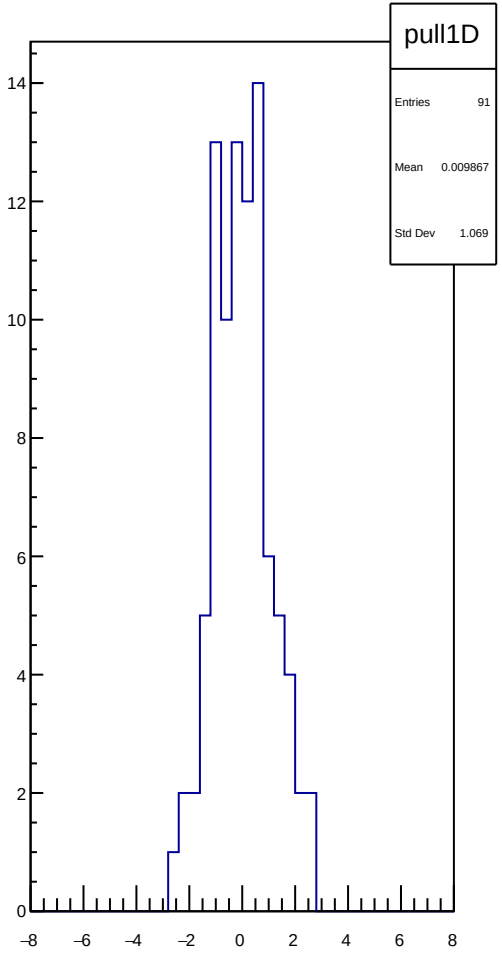

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2035 / 90
p0 0.01504 ± 1.138e−05
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

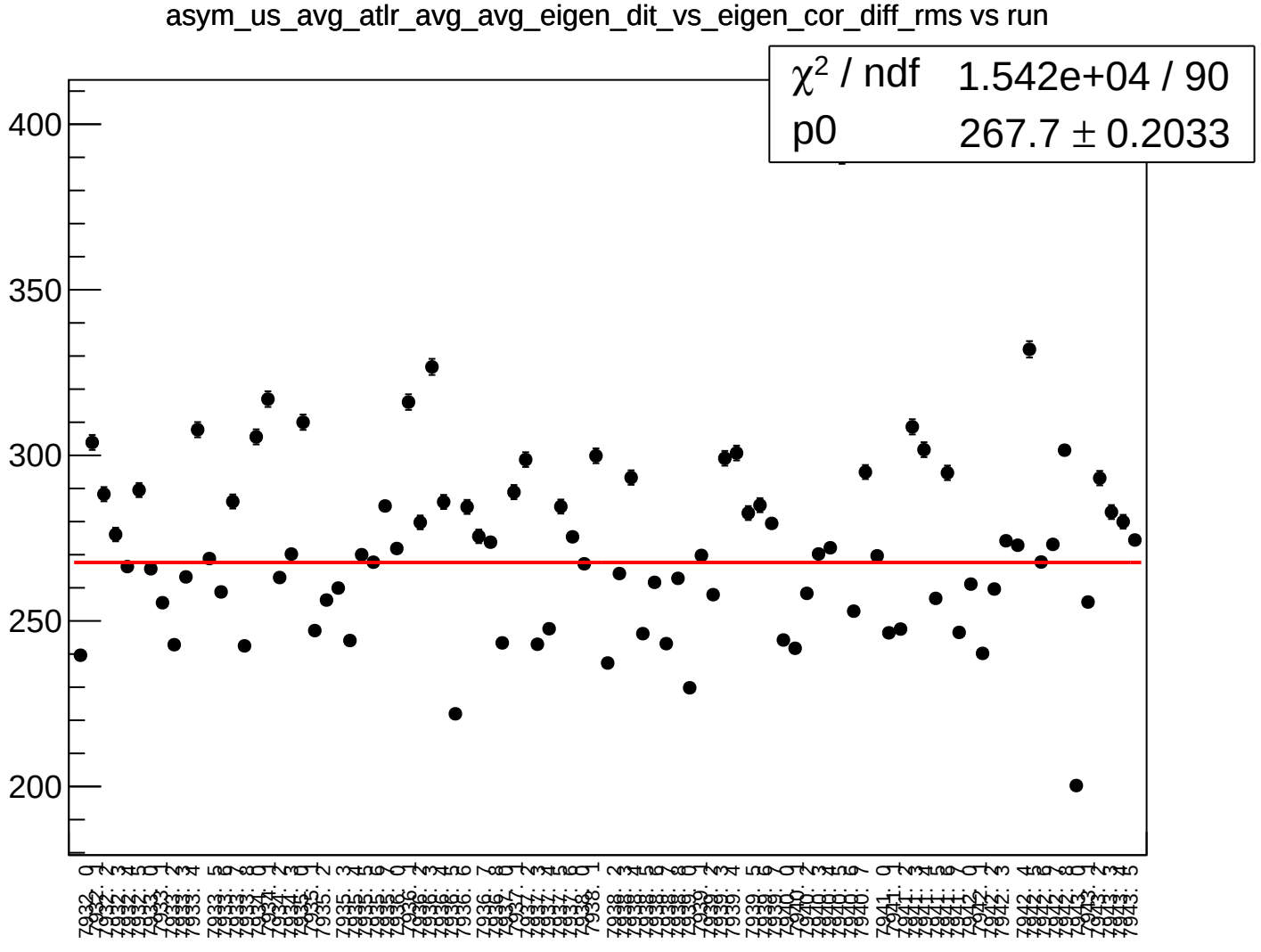

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 104.1 / 90
p0 −0.1226 ± 0.2876
pull
Entries 91
Mean −165.2
Std Dev 0

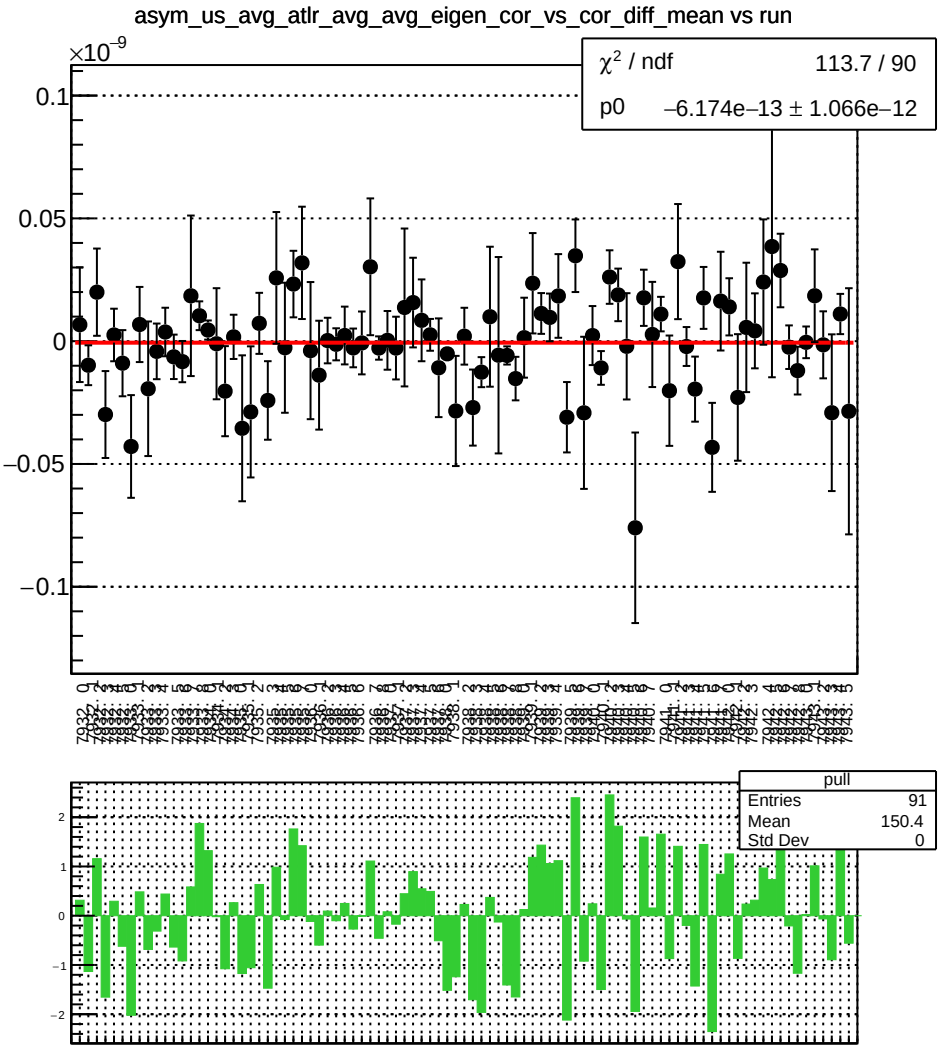

pull1D
Entries 91
Mean 0.009867
Std Dev 1.069

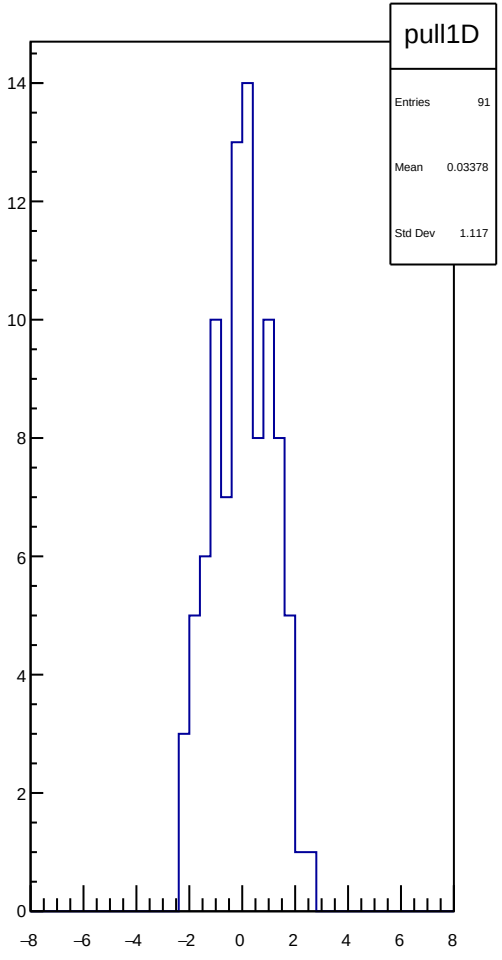

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.542e+04 / 90
p0 267.7 ± 0.2033
400
350
300
250
200

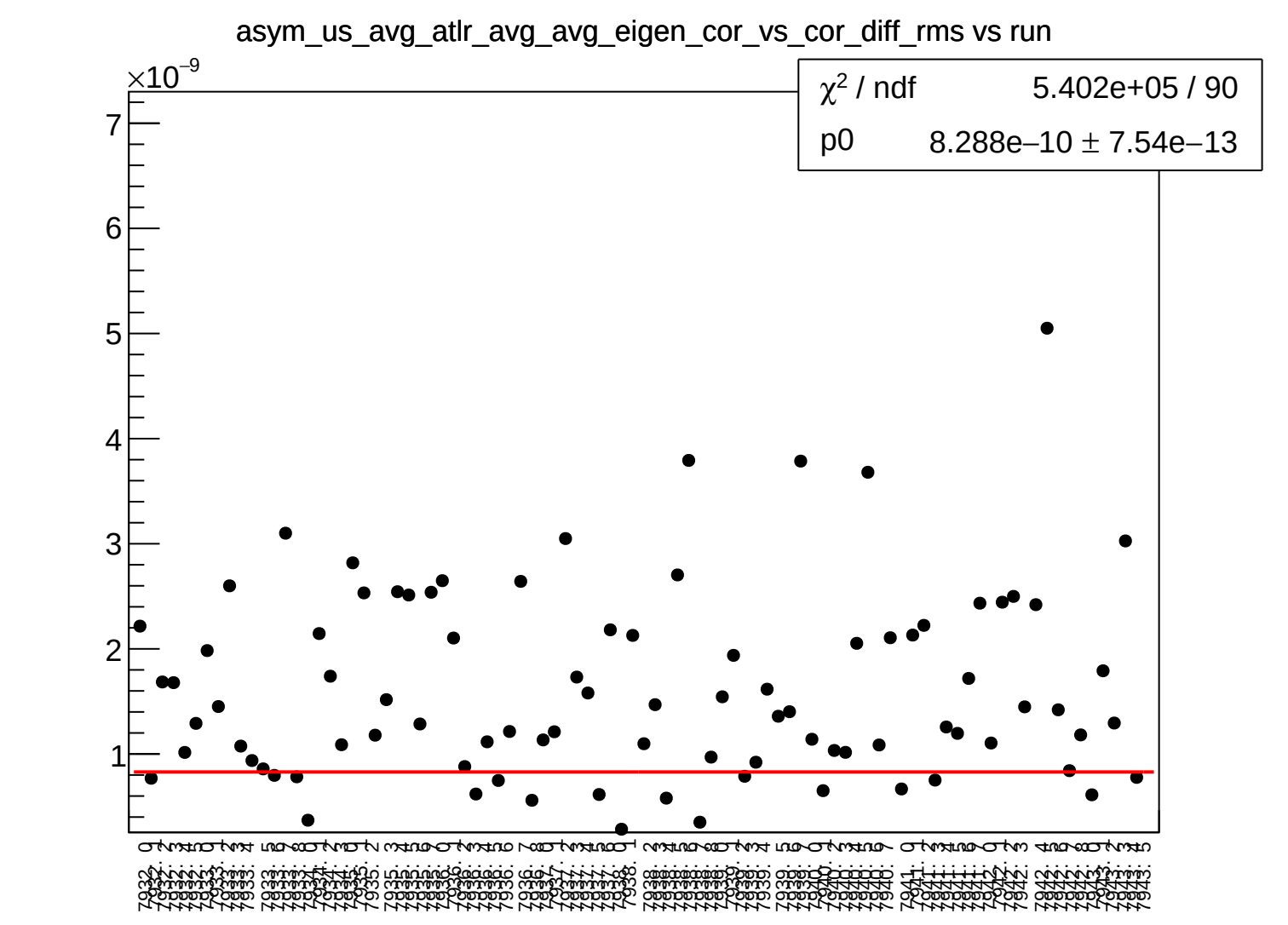

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 90
p0 −0.1226 ± 0.2876
pull
Entries 91
Mean −165.2
Std Dev 0

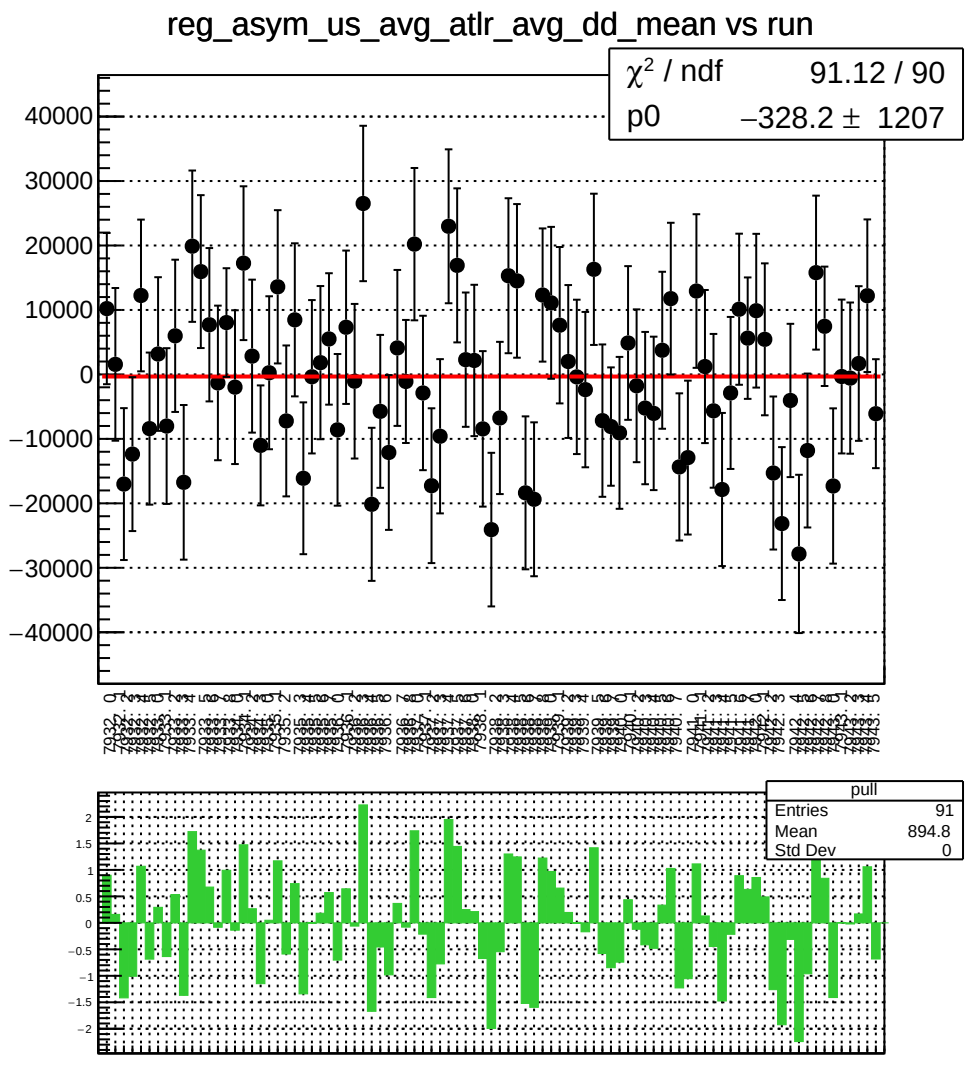

pull1D
Entries 91
Mean 0.009867
Std Dev 1.069

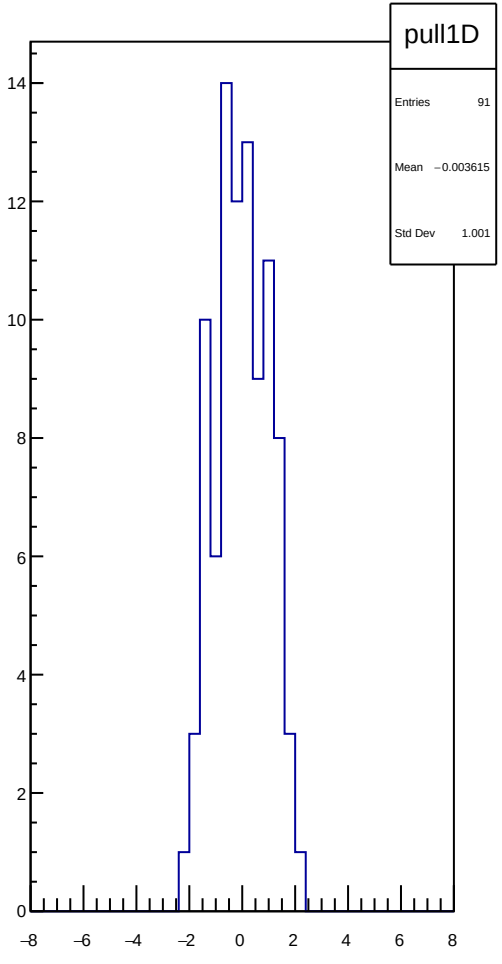

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.542e+04 / 90
p0 267.7 ± 0.2033
400
350
300
250
200

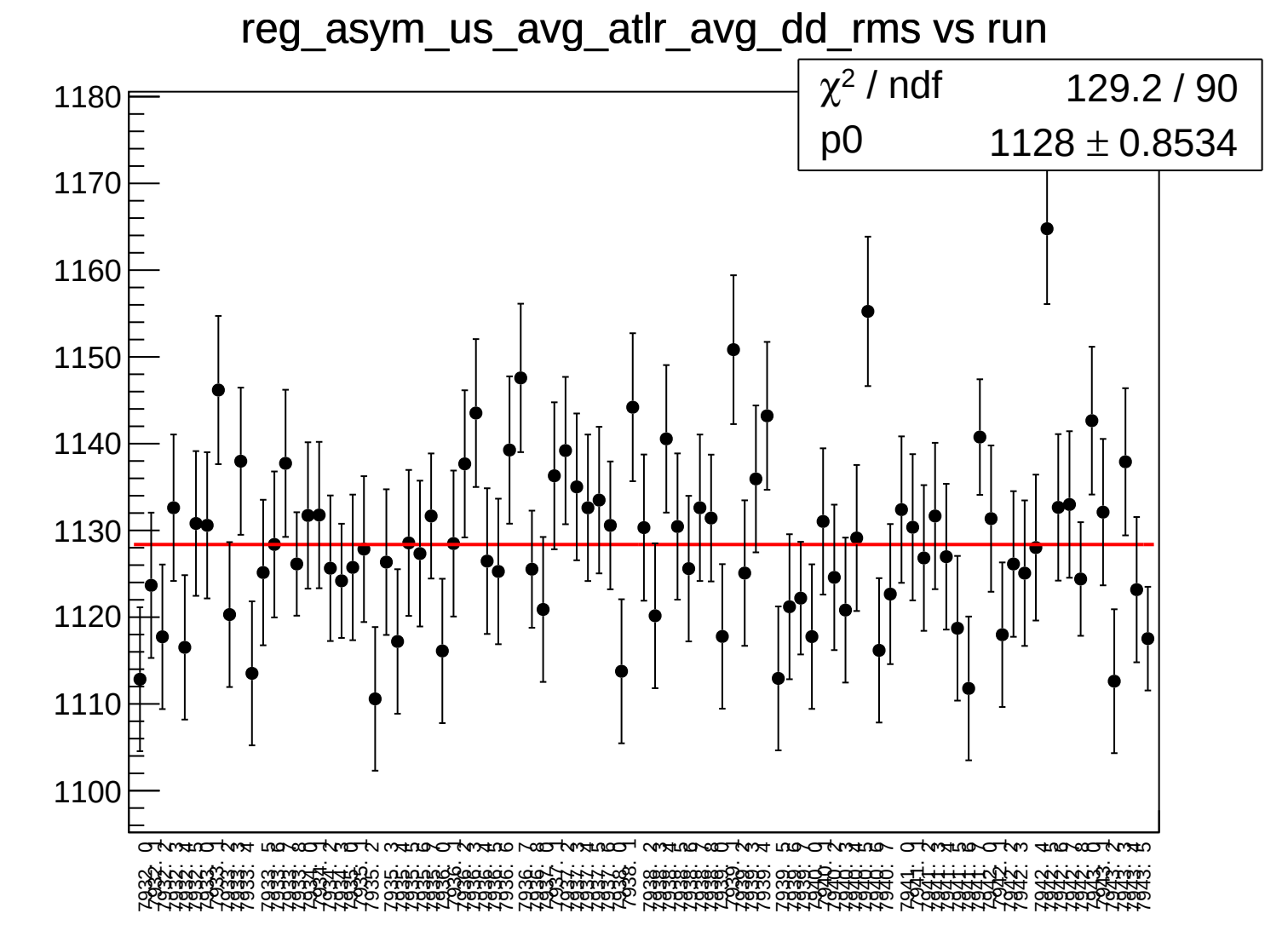

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 113.7 / 90
p0 −6.174e−13 ± 1.066e−12
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 150.4
Std Dev 0
2
1
0
−1
−2

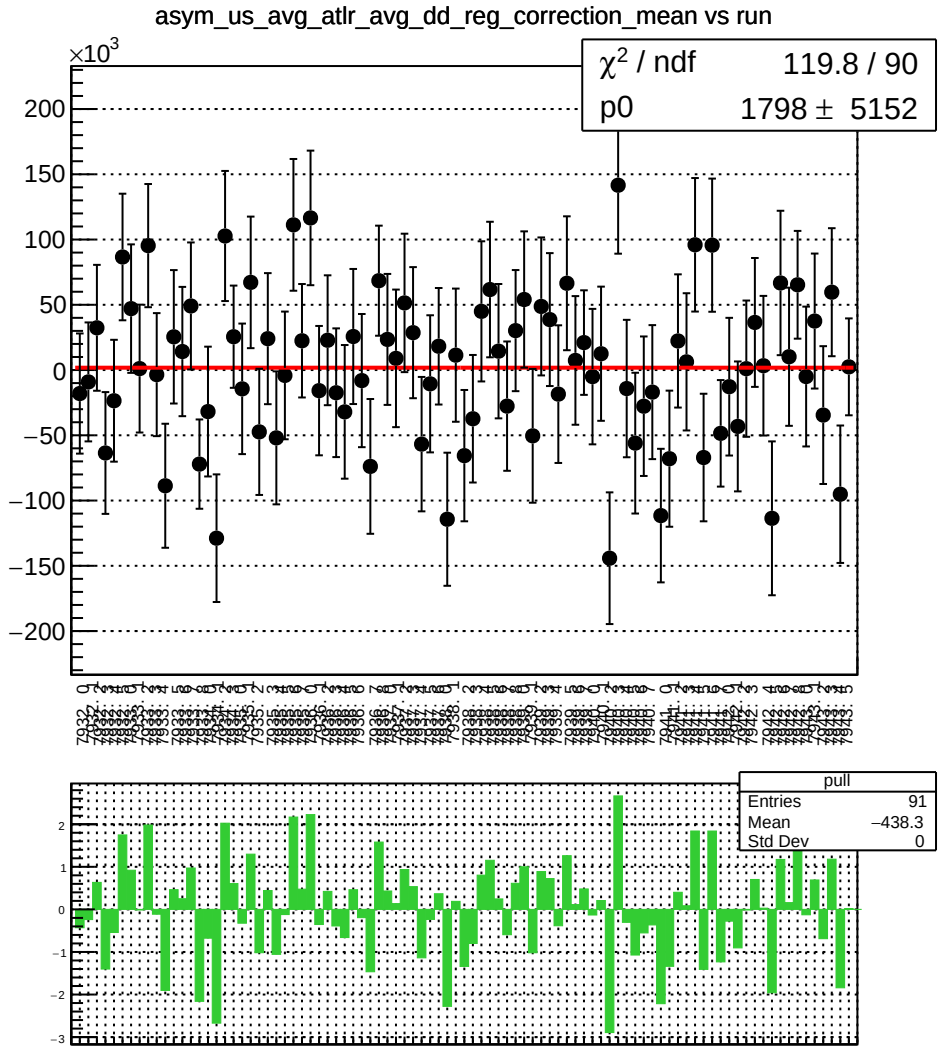

pull1D
Entries 91
Mean 0.03378
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

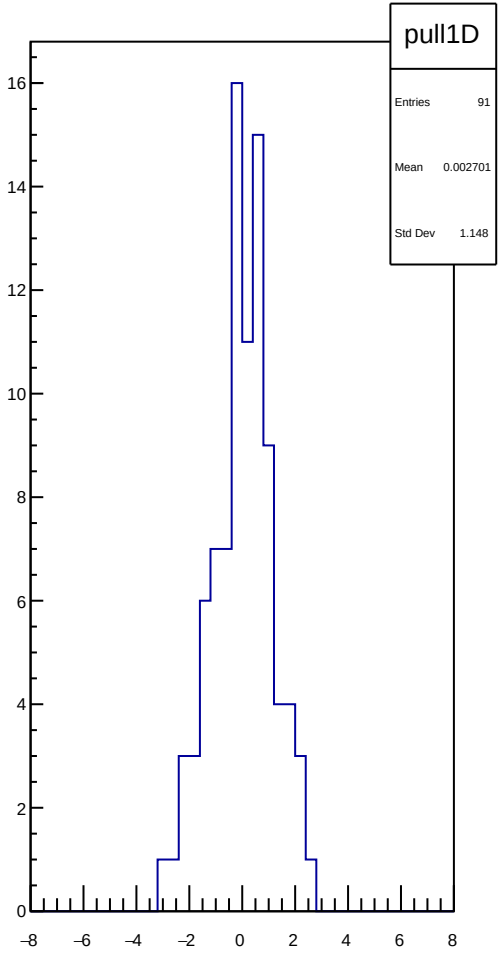

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.402e+05 / 90
p0 8.288e−10 ± 7.54e−13
7
6
5
4
3
2
1

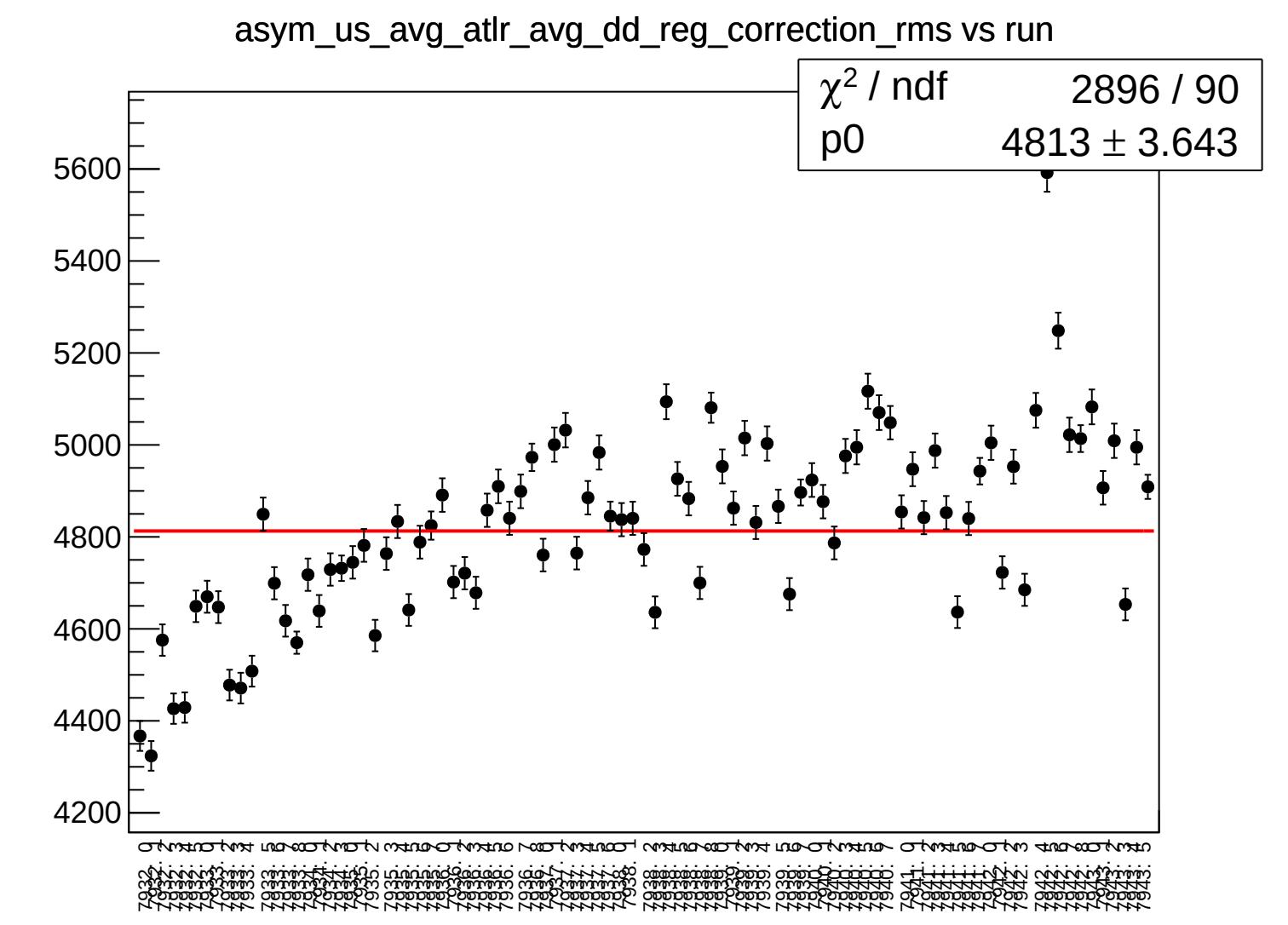

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 91.12 / 90
p0 −328.2 ± 1207
pull
Entries 91
Mean 894.8
Std Dev 0

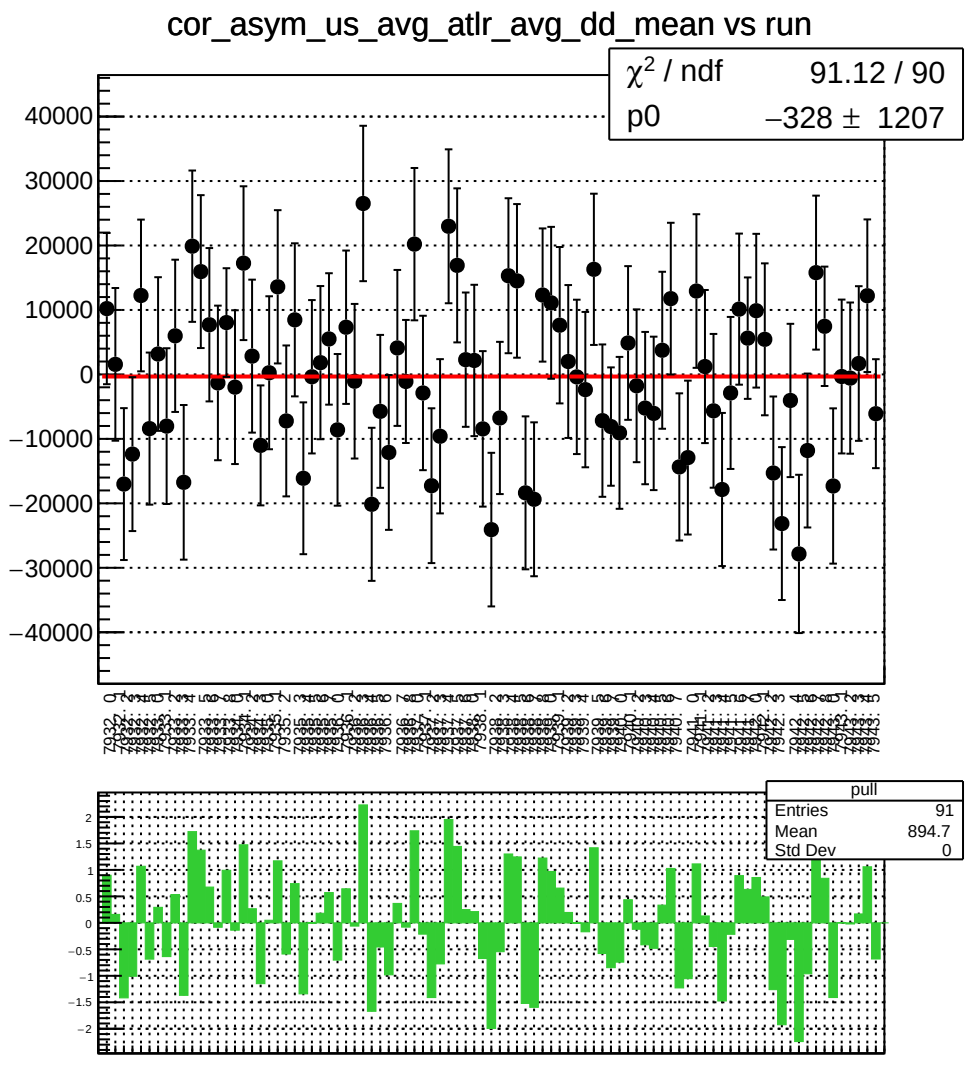

pull1D
Entries 91
Mean −0.003615
Std Dev 1.001

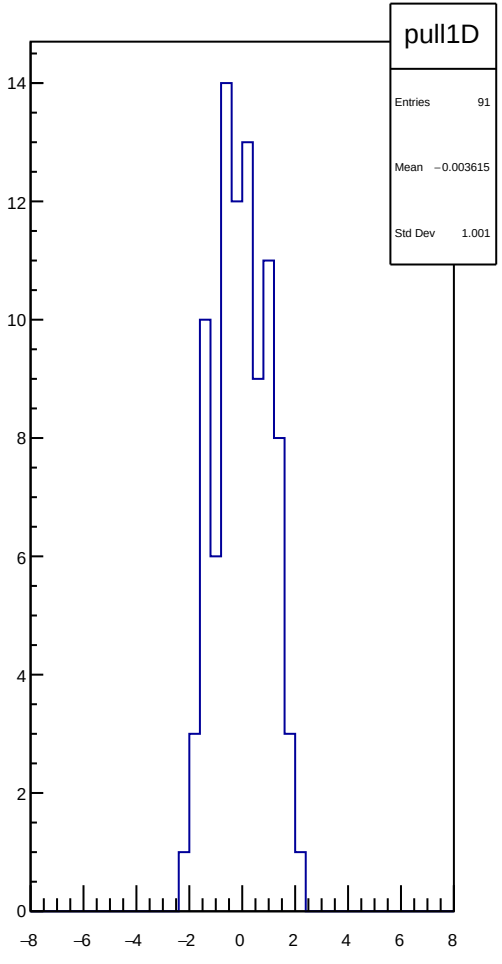

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 129.2 / 90
p0 1128 ± 0.8534
1180
1170
1160
1150
1140
1130
1120
1110
1100

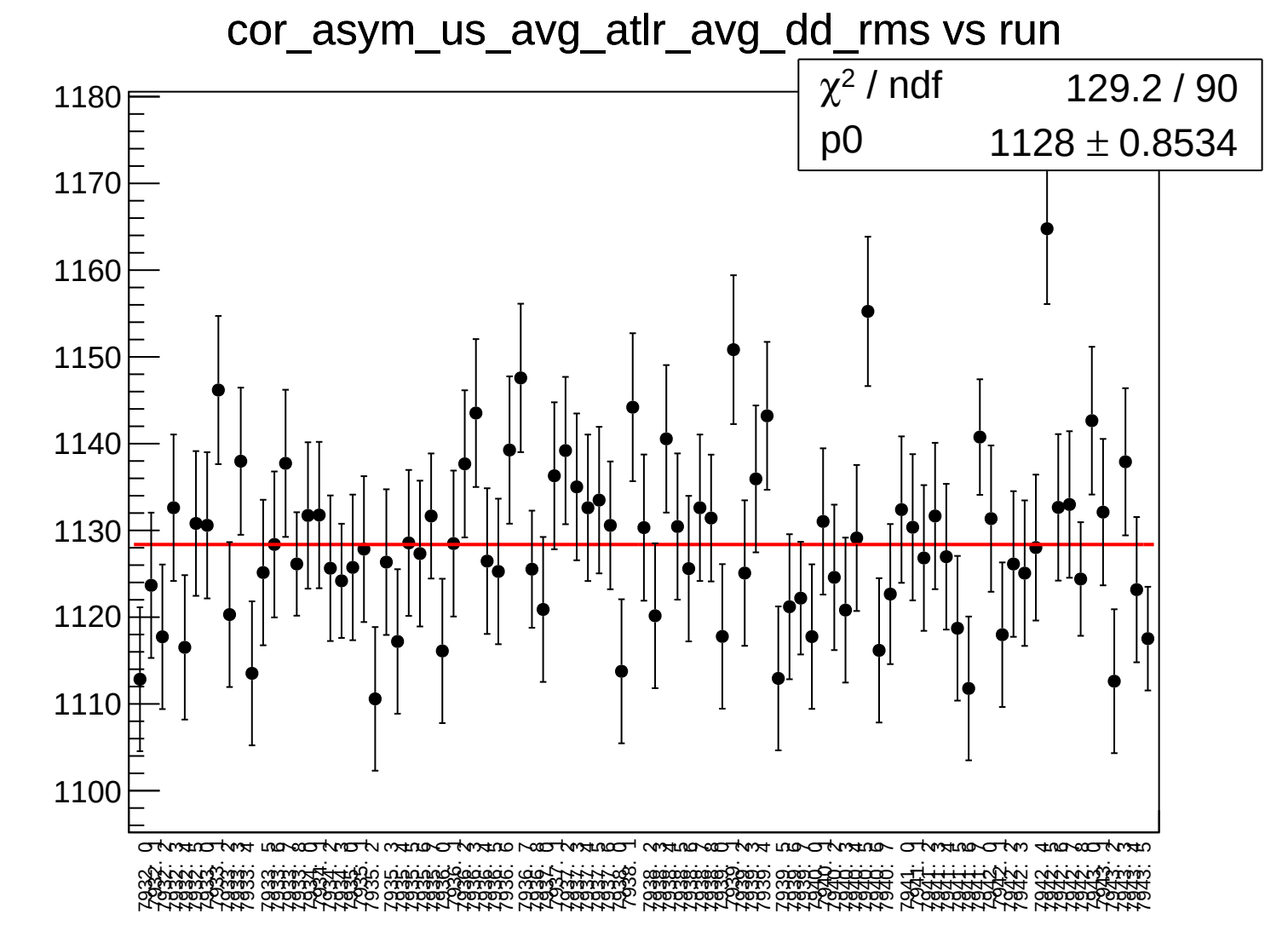

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 119.8 / 90
p0 1798 ± 5152
pull
Entries 91
Mean −438.3
Std Dev 0

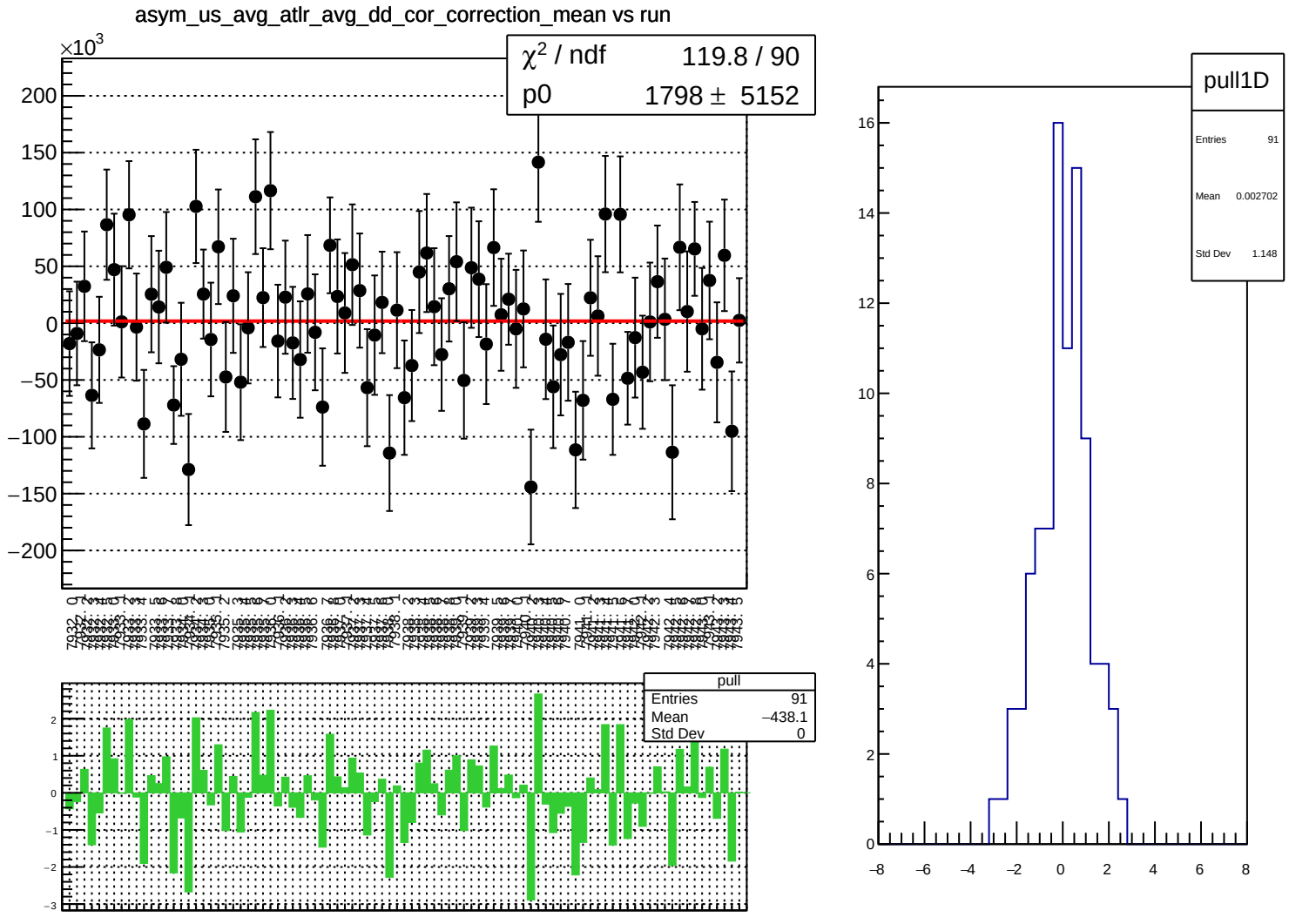

pull1D
Entries 91
Mean 0.002701
Std Dev 1.148

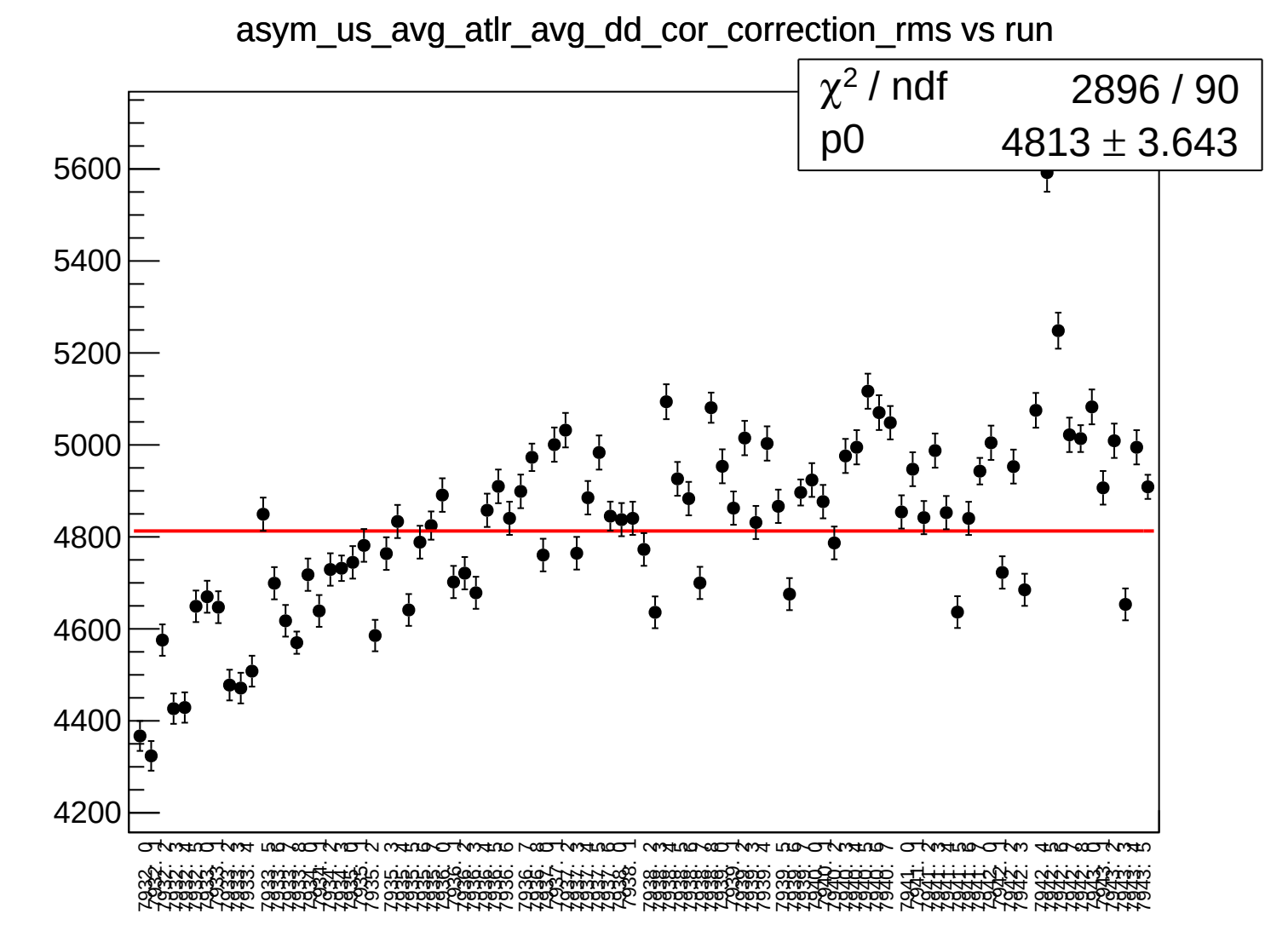

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 2896 / 90
p0 4813 ± 3.643
5600
5400
5200
5000
4800
4600
4400
4200

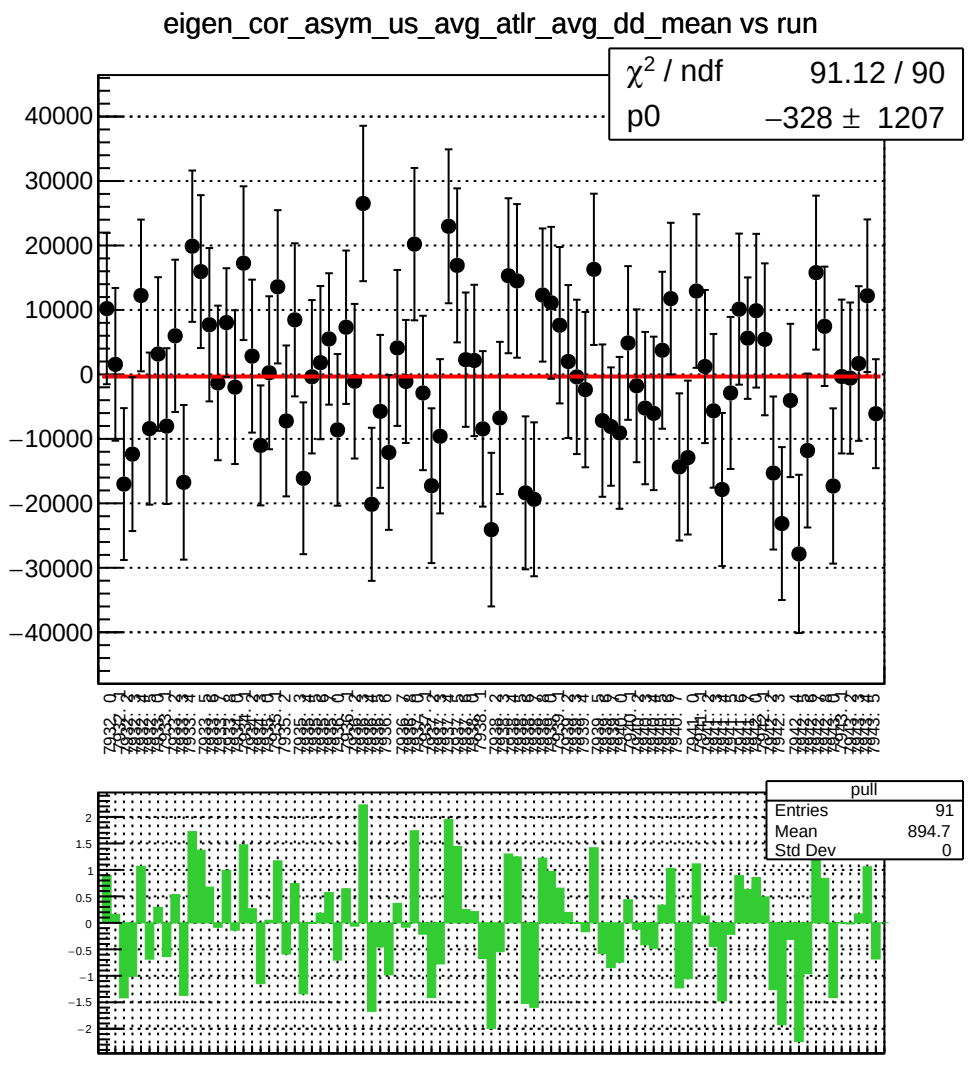

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 91.12 / 90
p0 −328 ± 1207
pull
Entries 91
Mean 894.7
Std Dev 0

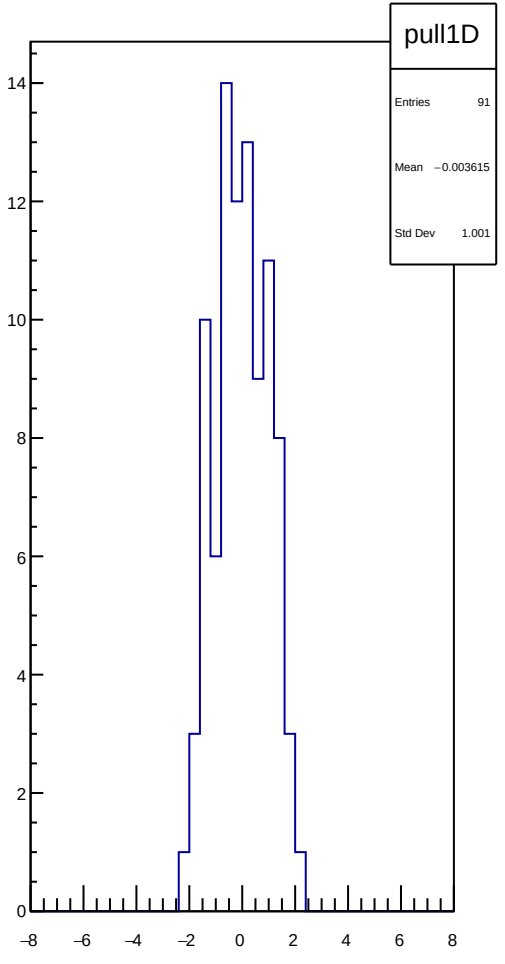

pull1D
Entries 91
Mean −0.003615
Std Dev 1.001

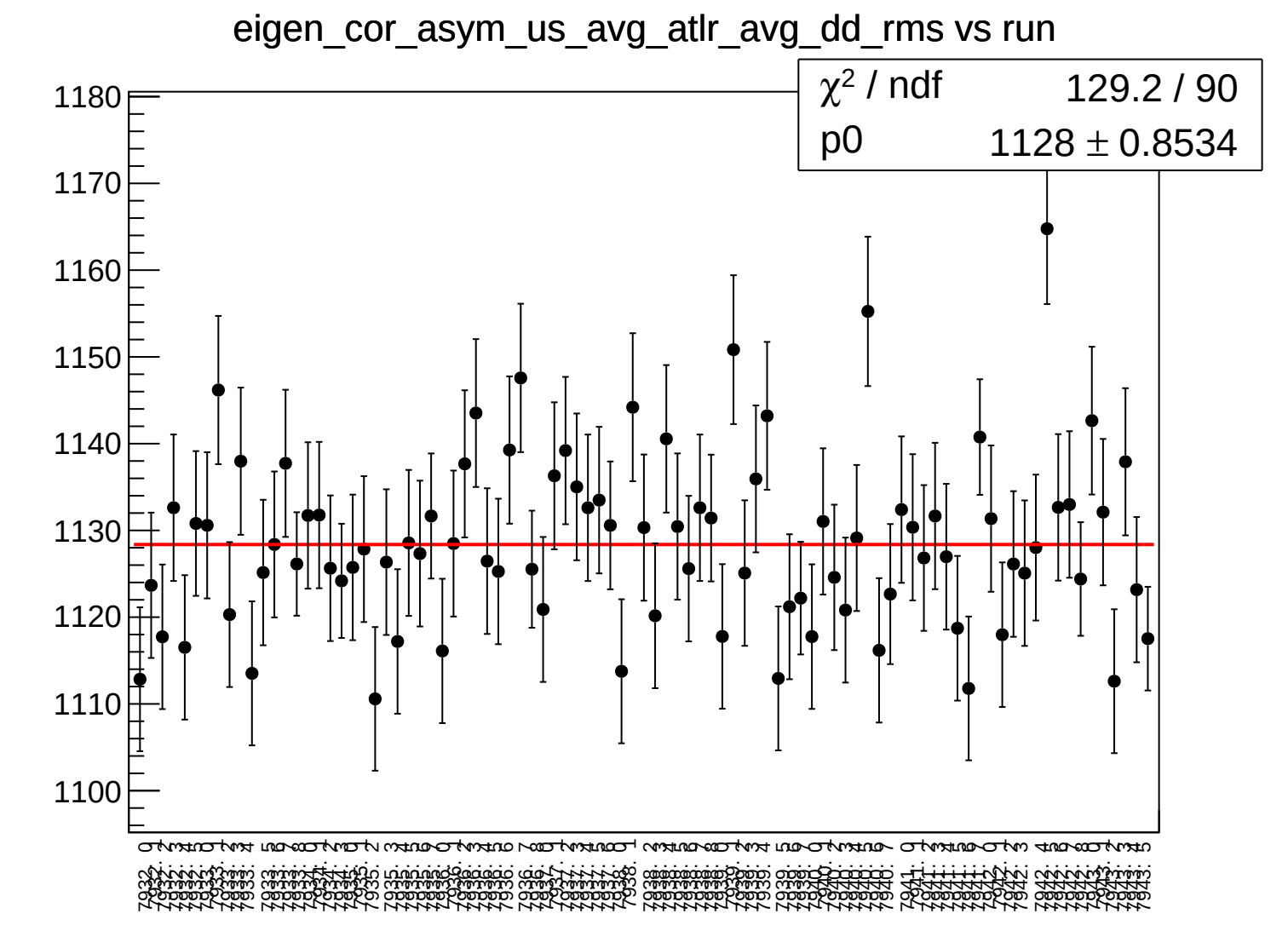

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 129.2 / 90
p0 1128 ± 0.8534
1180
1170
1160
1150
1140
1130
1120
1110
1100

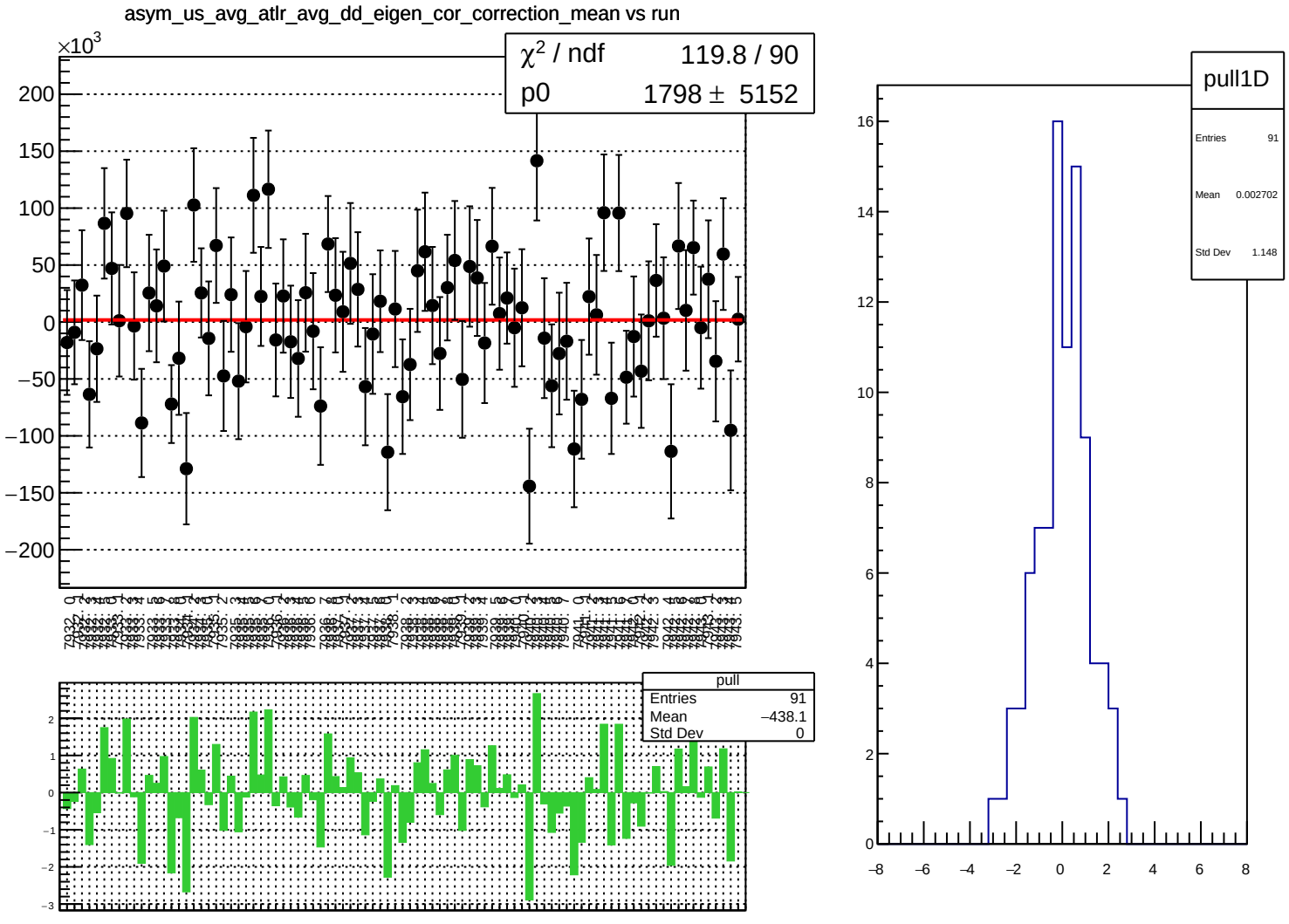

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.8 / 90
p0 1798 ± 5152
pull
Entries 91
Mean −438.1
Std Dev 0
pull1D
Entries 91
Mean 0.002702
Std Dev 1.148

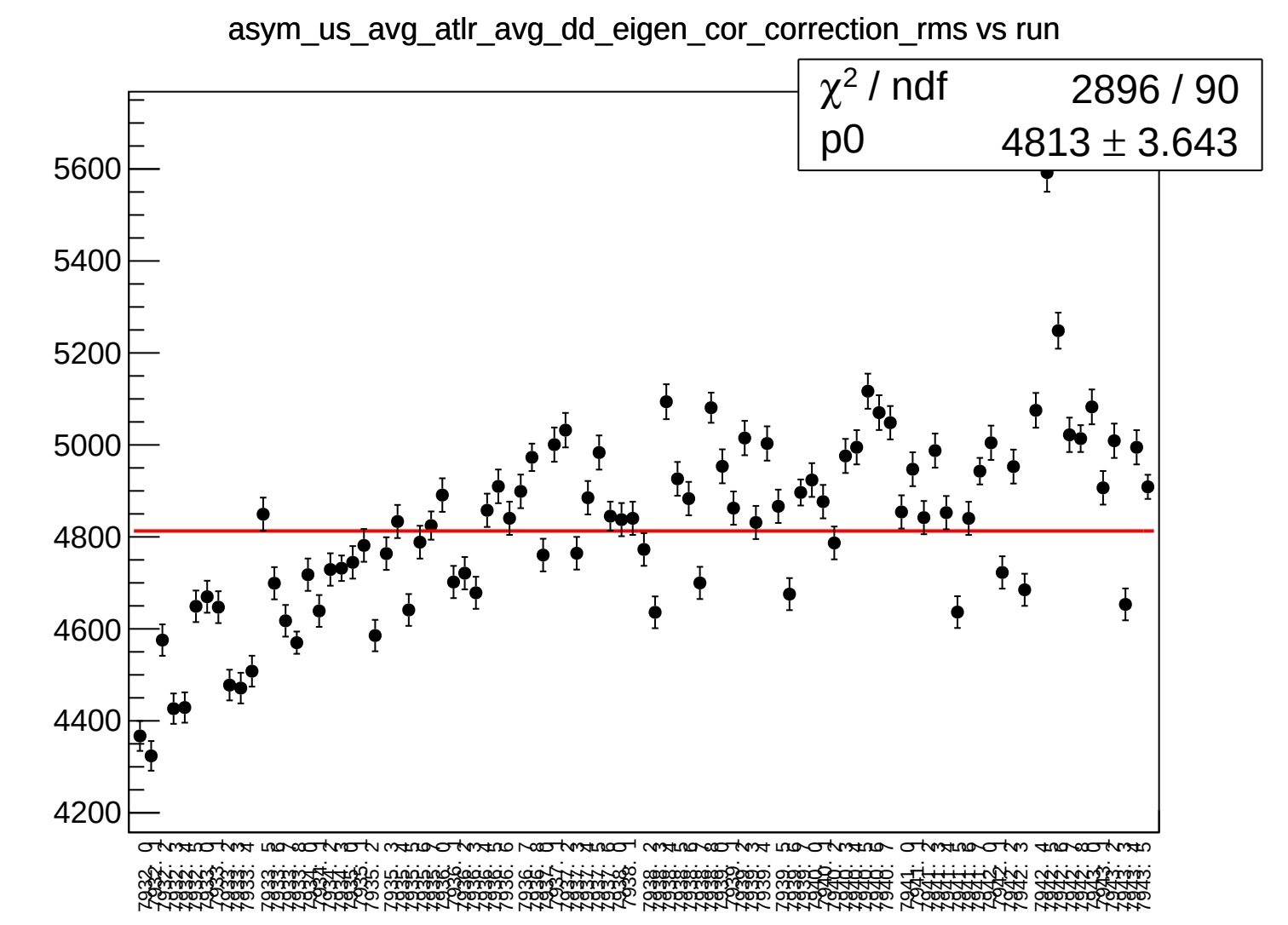

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 2896 / 90
p0 4813 ± 3.643
5600
5400
5200
5000
4800
4600
4400
4200

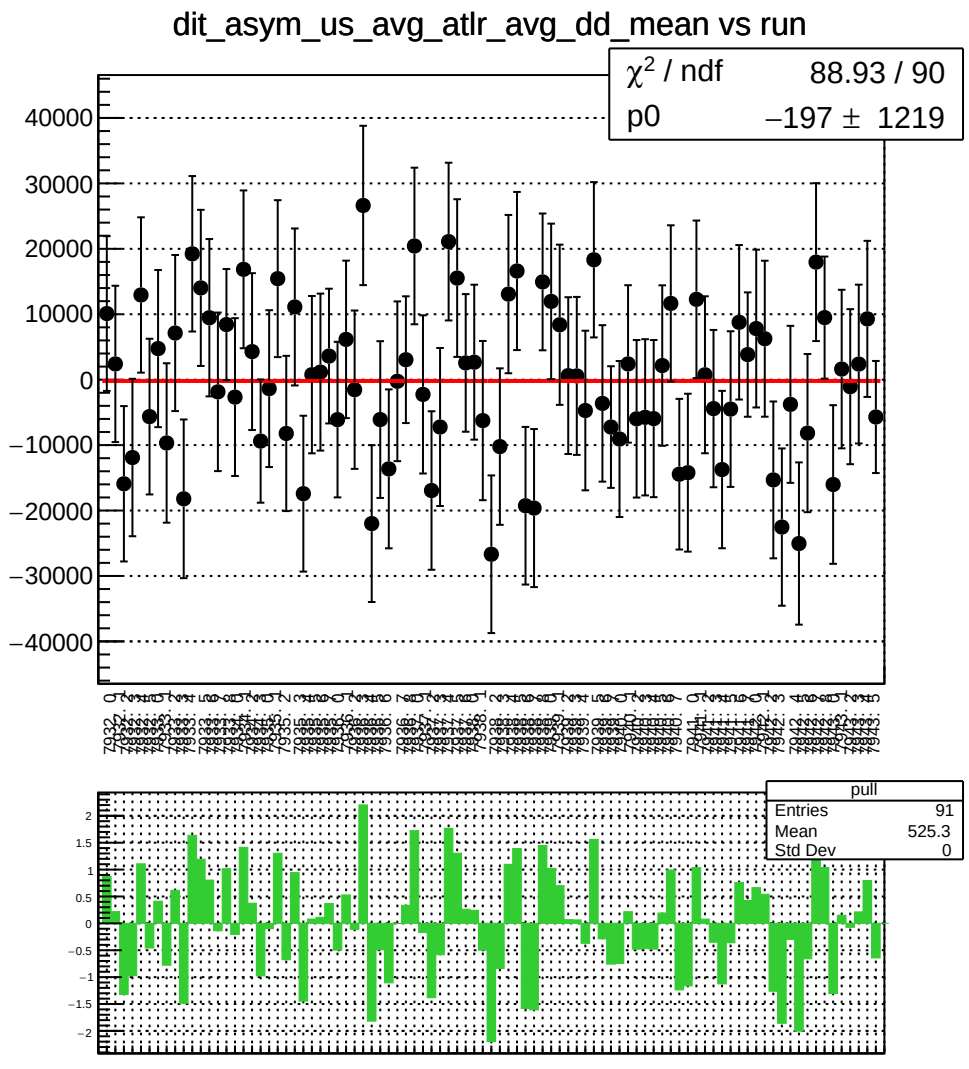

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 91.12 / 90
p0 −328 ± 1207
pull
Entries 91
Mean 894.7
Std Dev 0

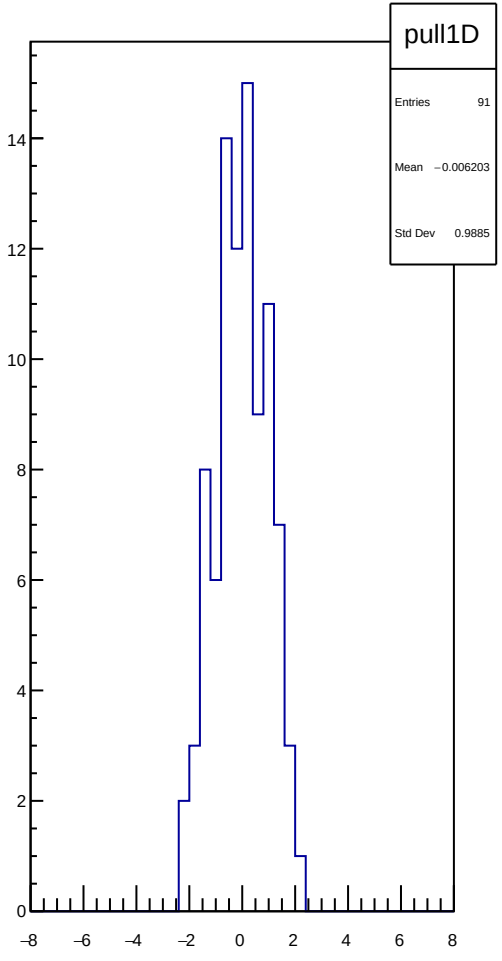

pull1D
Entries 91
Mean −0.003615
Std Dev 1.001

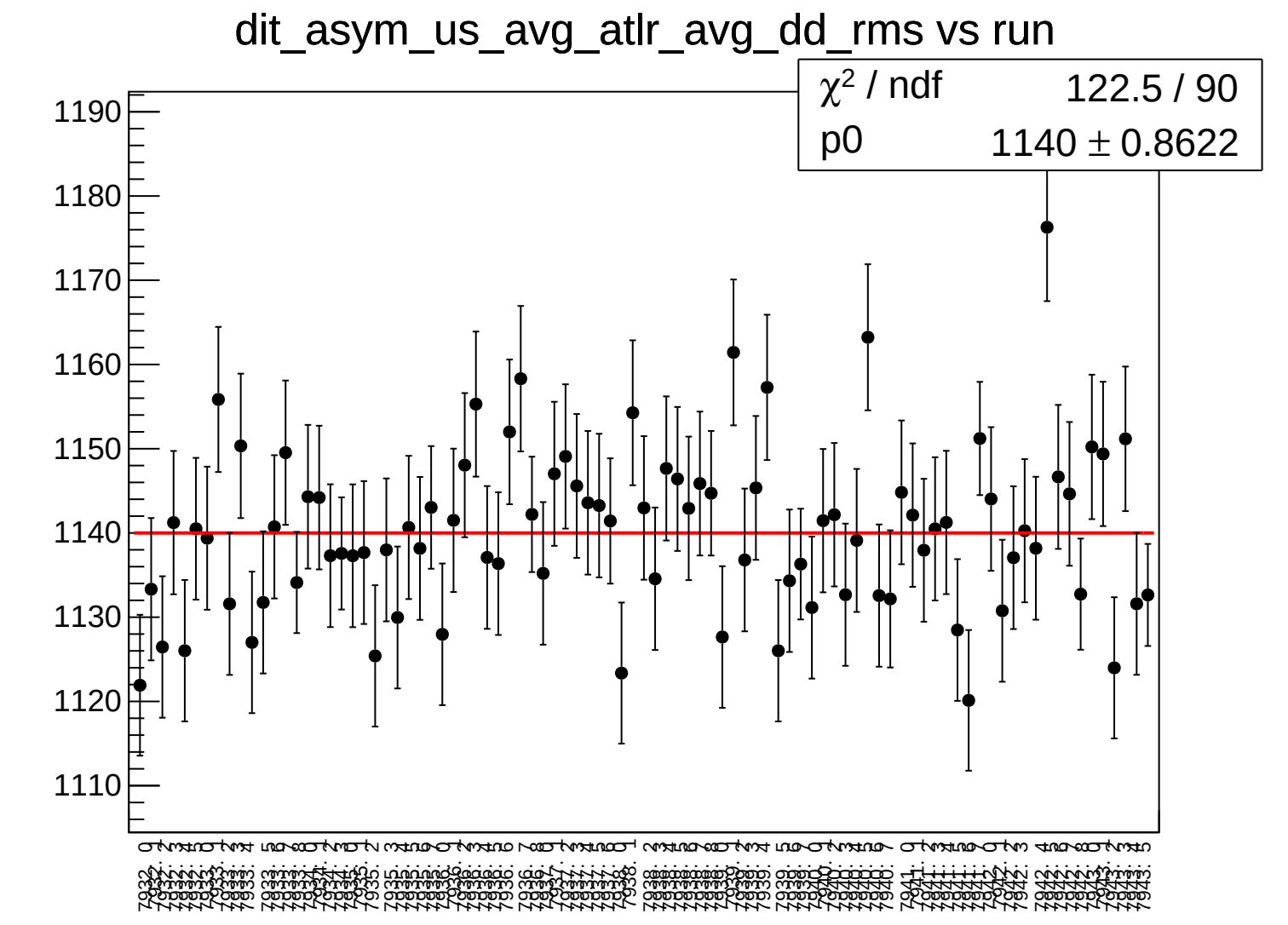

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 129.2 / 90
p0 1128 ± 0.8534
1180
1170
1160
1150
1140
1130
1120
1110
1100

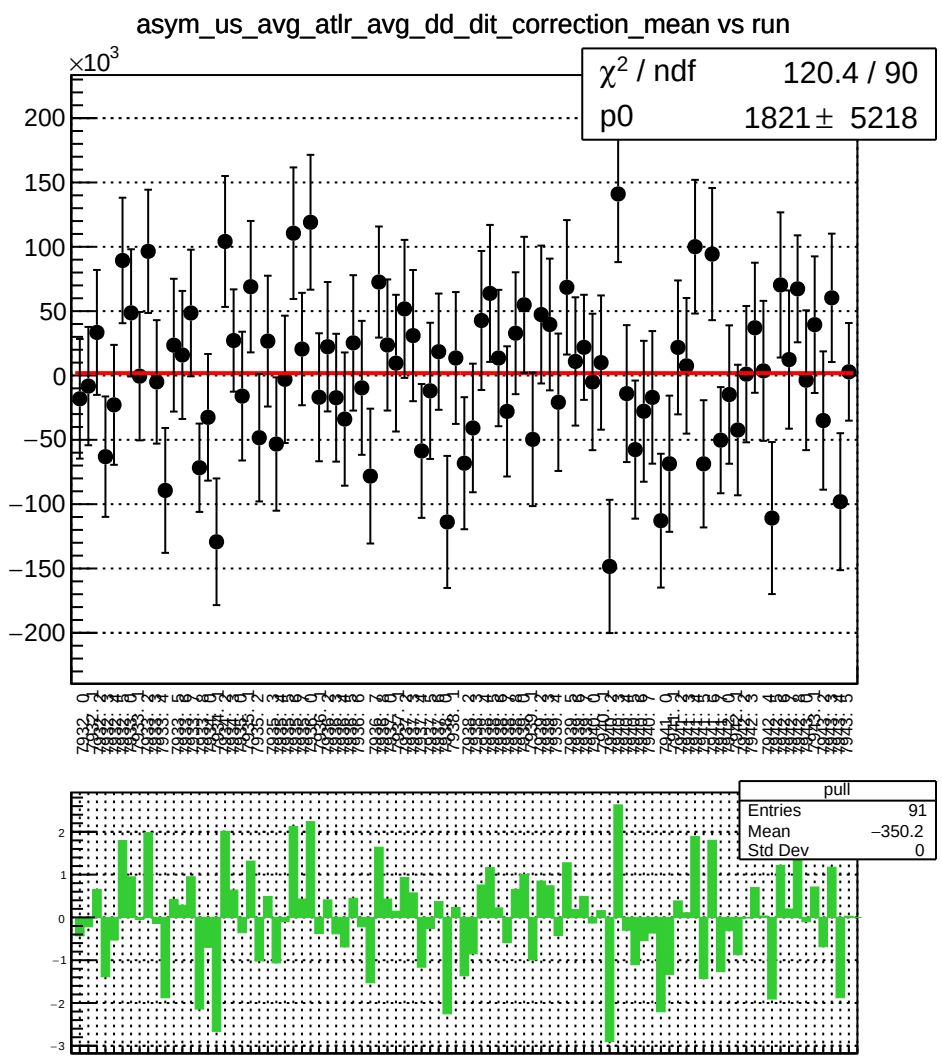

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 119.8 / 90
p0 1798 ± 5152
pull
Entries 91
Mean −438.1
Std Dev 0
pull1D
Entries 91
Mean 0.002702
Std Dev 1.148

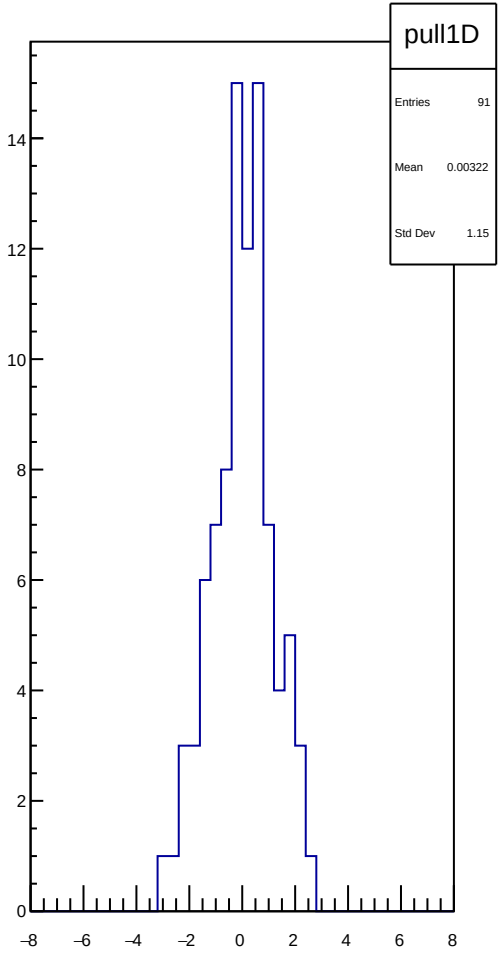

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2896 / 90
p0 4813 ± 3.643
5600
5400
5200
5000
4800
4600
4400
4200

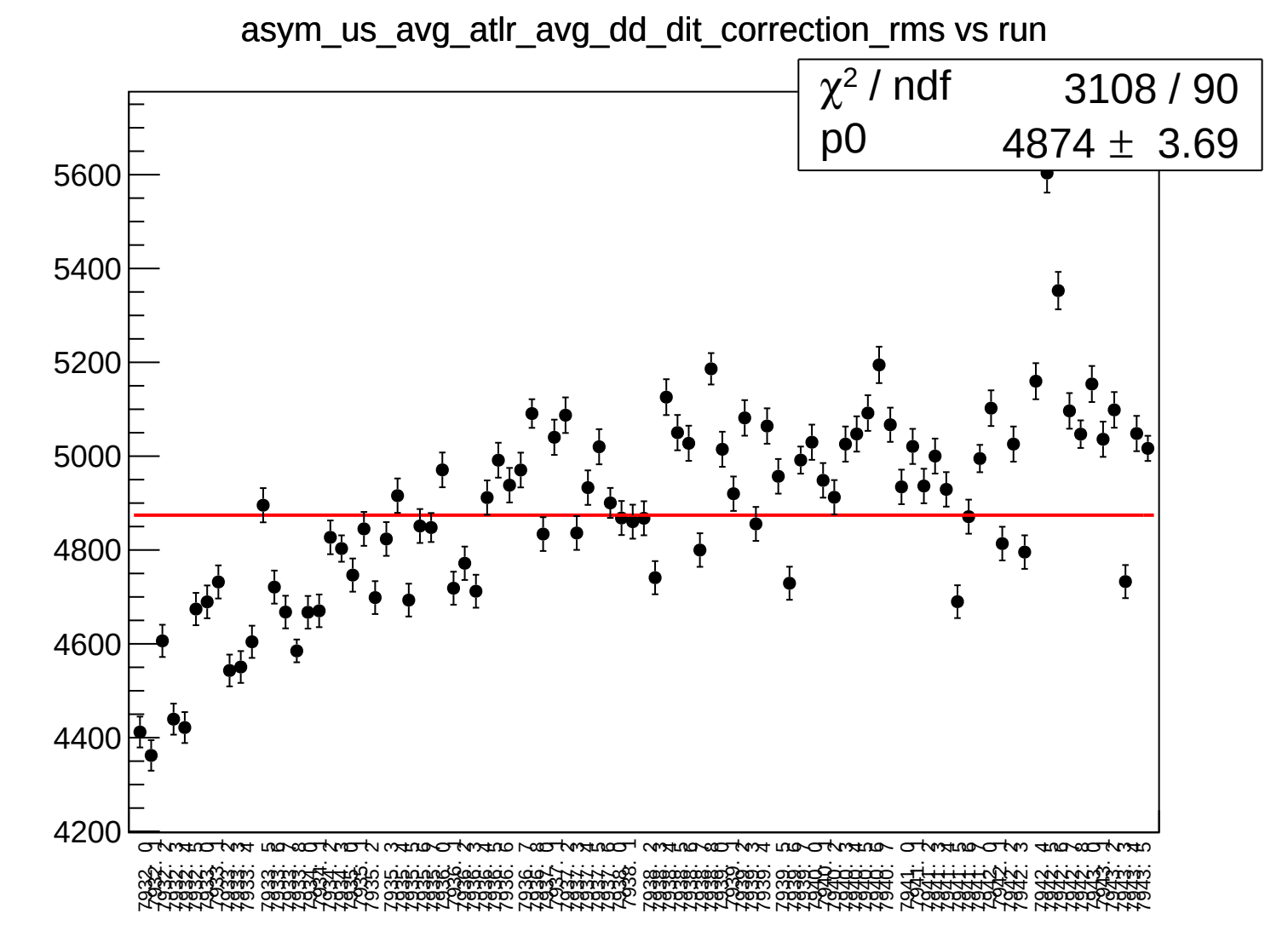

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.93 / 90
p0 −197 ± 1219
pull
Entries 91
Mean 525.3
Std Dev 0

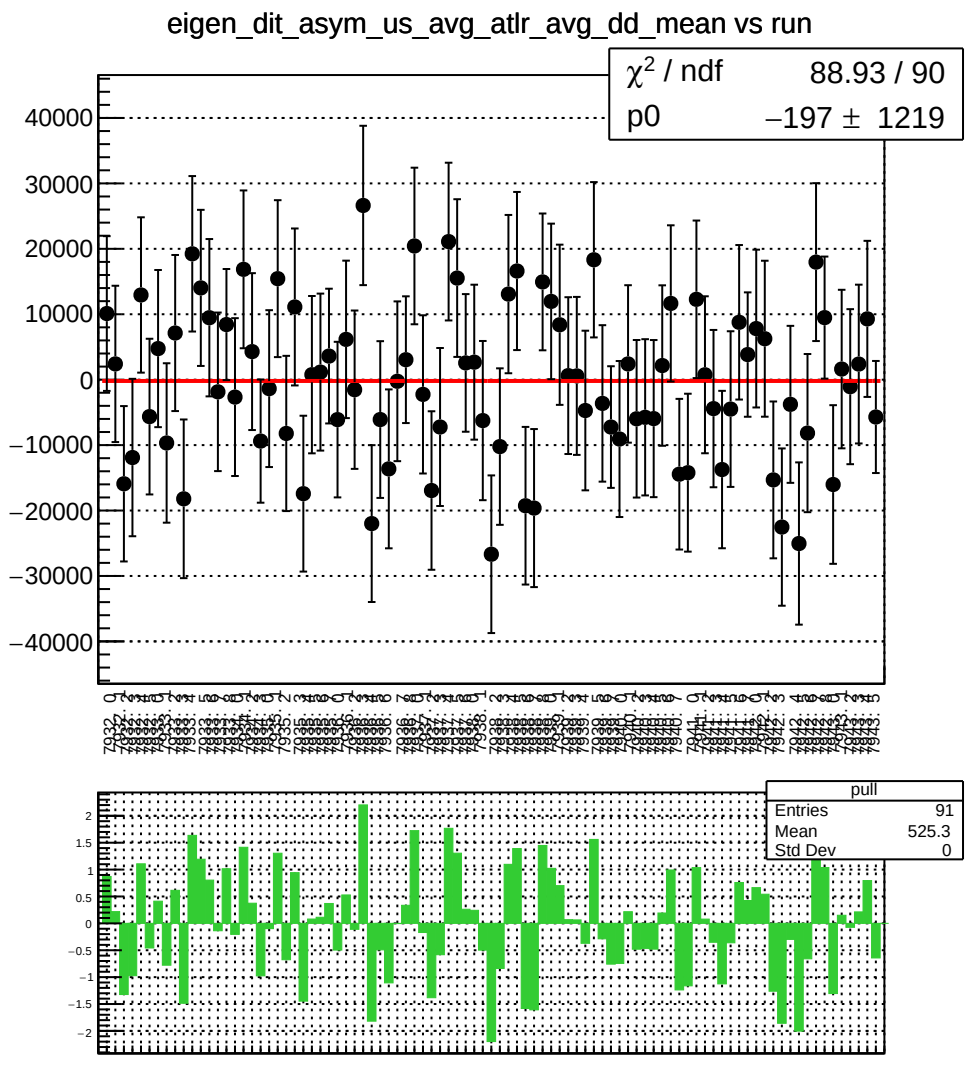

pull1D
Entries 91
Mean −0.006203
Std Dev 0.9885

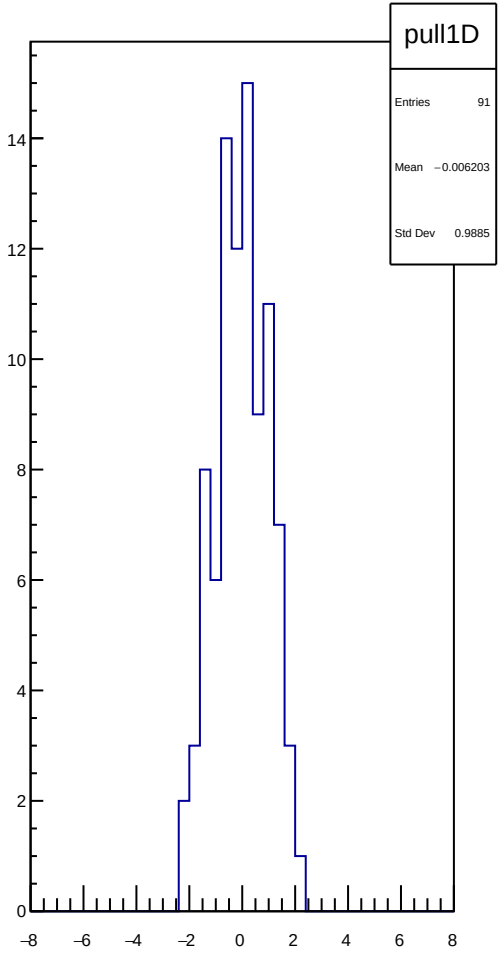

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 122.5 / 90
p0 1140 ± 0.8622
1190
1180
1170
1160
1150
1140
1130
1120
1110

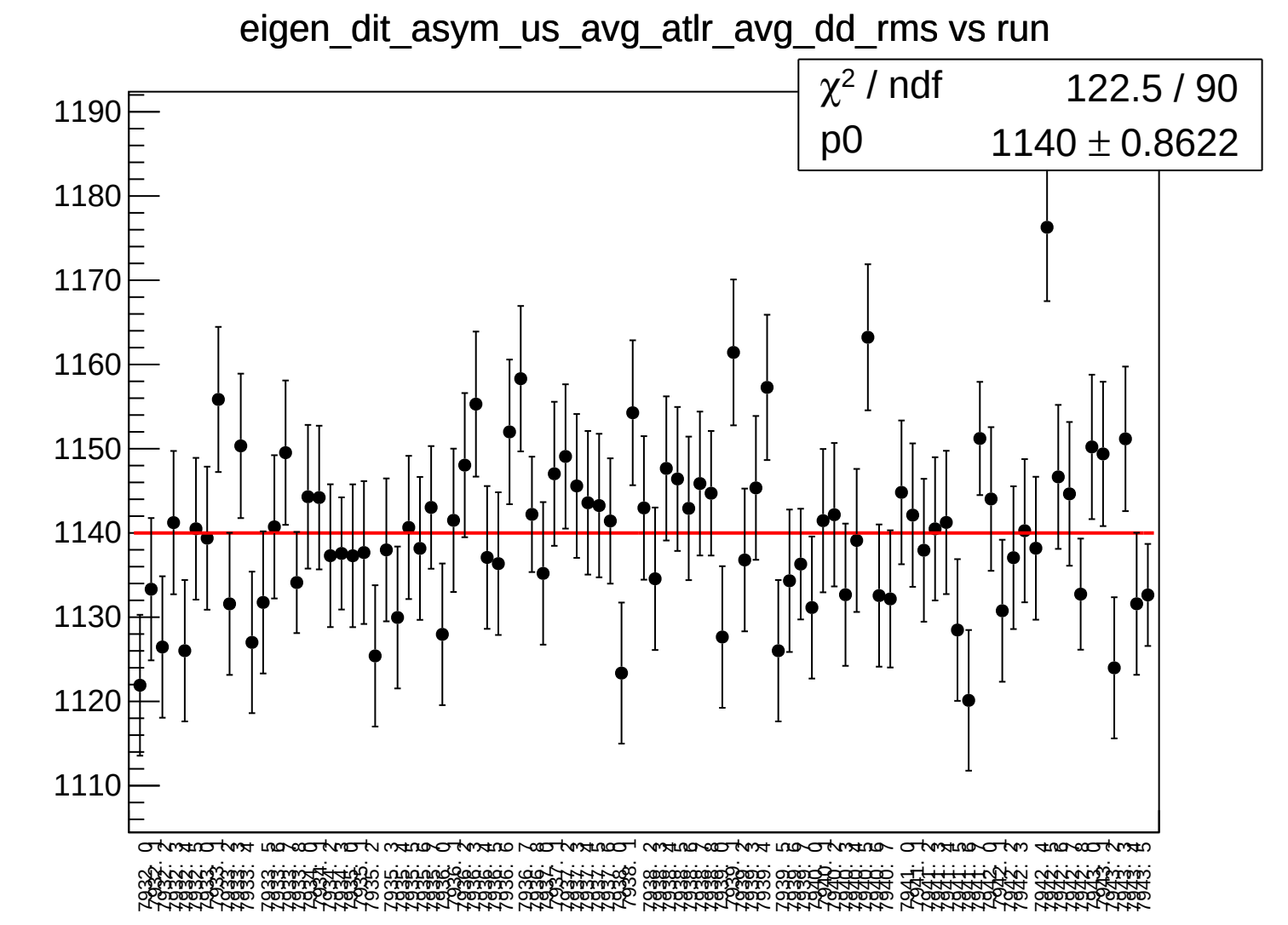

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 120.4 / 90
p0 1821 ± 5218
pull
Entries 91
Mean −350.2
Std Dev 0

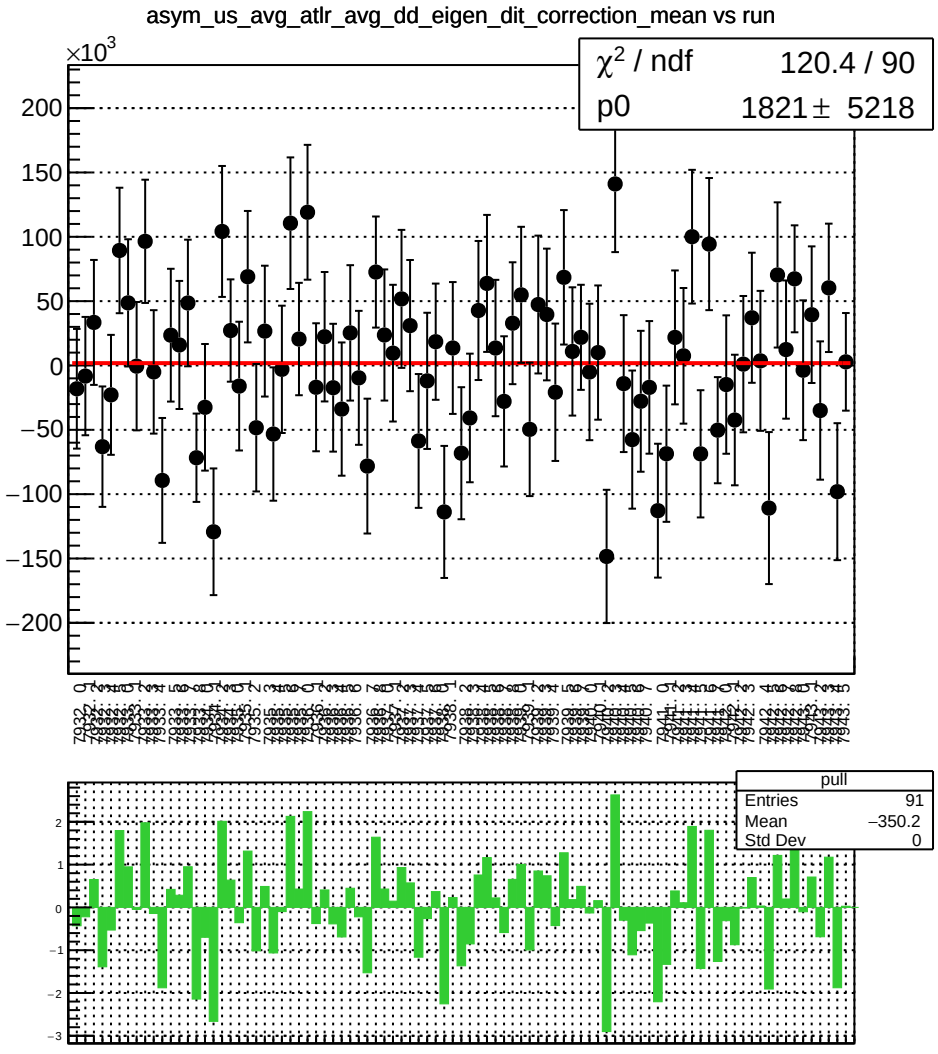

pull1D
Entries 91
Mean 0.00322
Std Dev 1.15

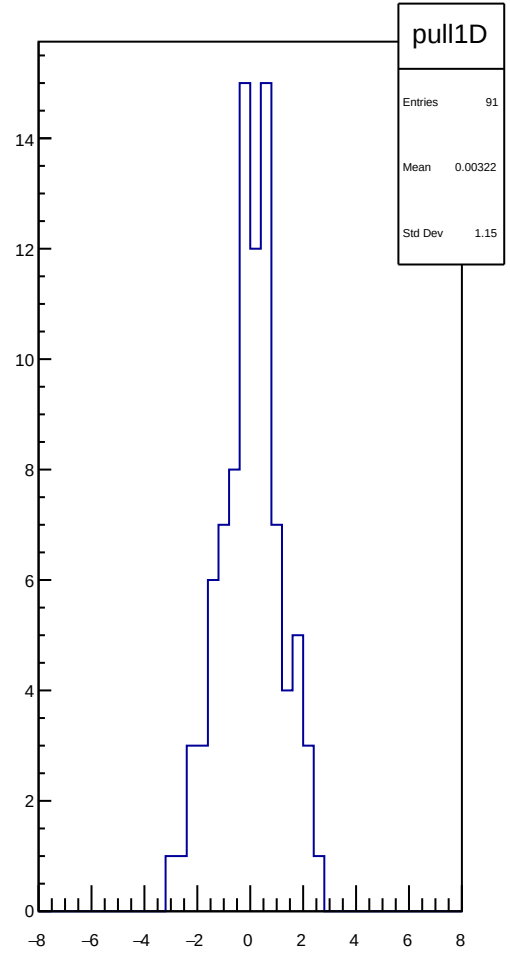

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3108 / 90
p0 4874 ± 3.69
5600
5400
5200
5000
4800
4600
4400
4200

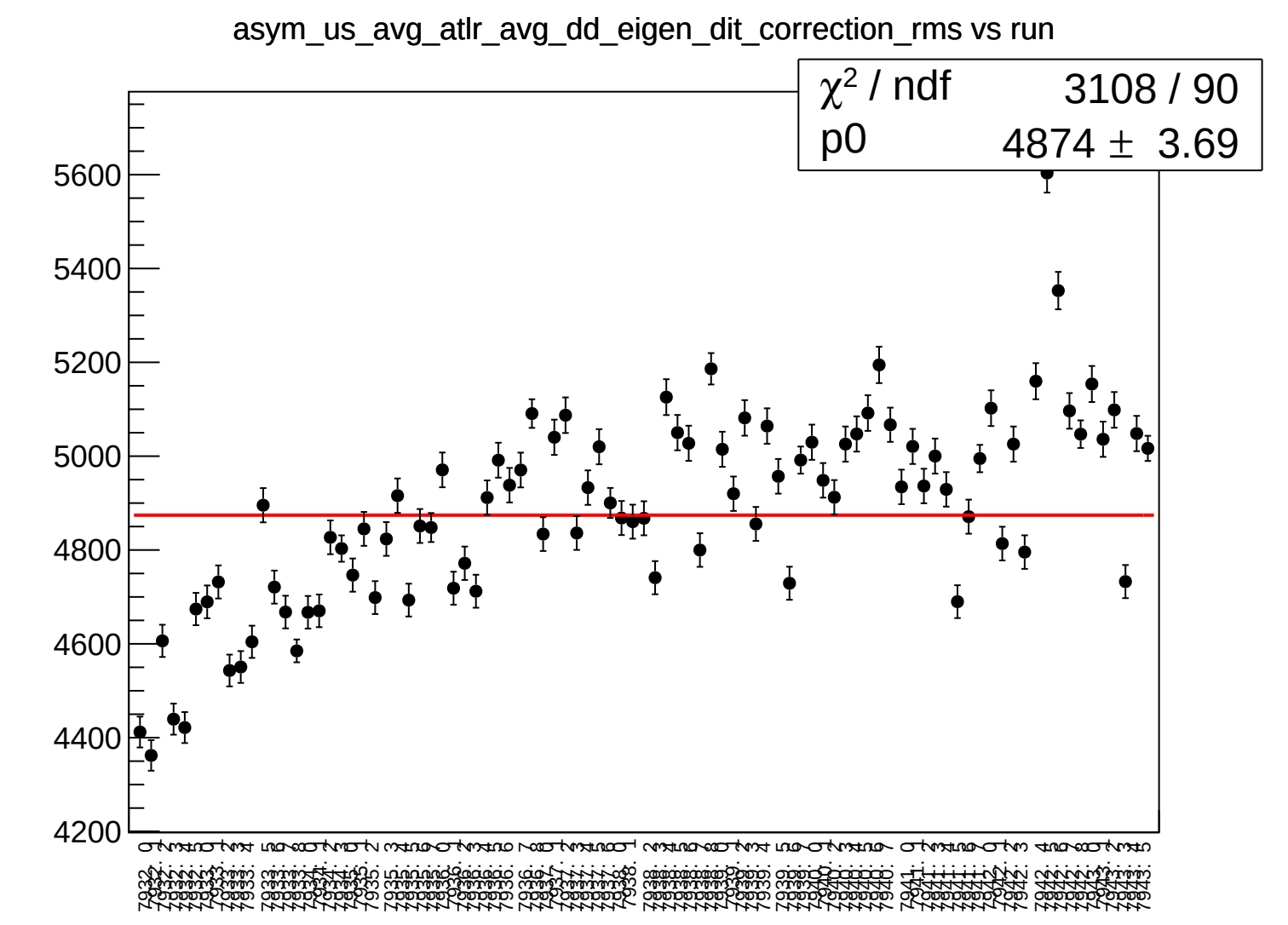

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.93 / 90
p0 −197 ± 1219
pull
Entries 91
Mean 525.3
Std Dev 0

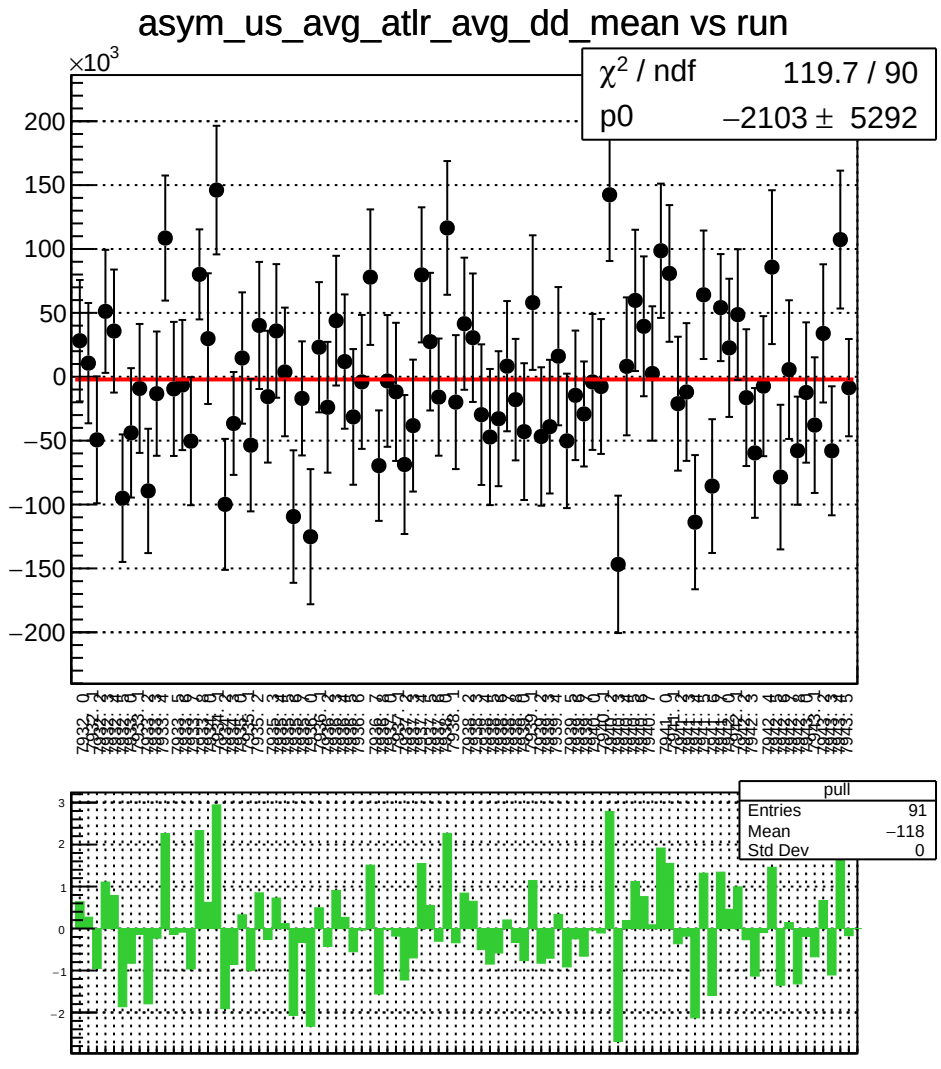

pull1D
Entries 91
Mean −0.006203
Std Dev 0.9885

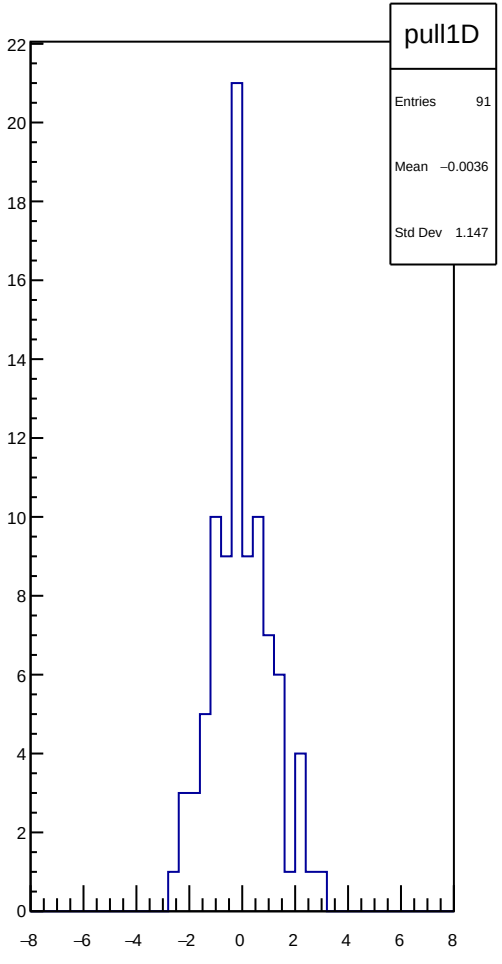

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 122.5 / 90
p0 1140 ± 0.8622
1190
1180
1170
1160
1150
1140
1130
1120
1110

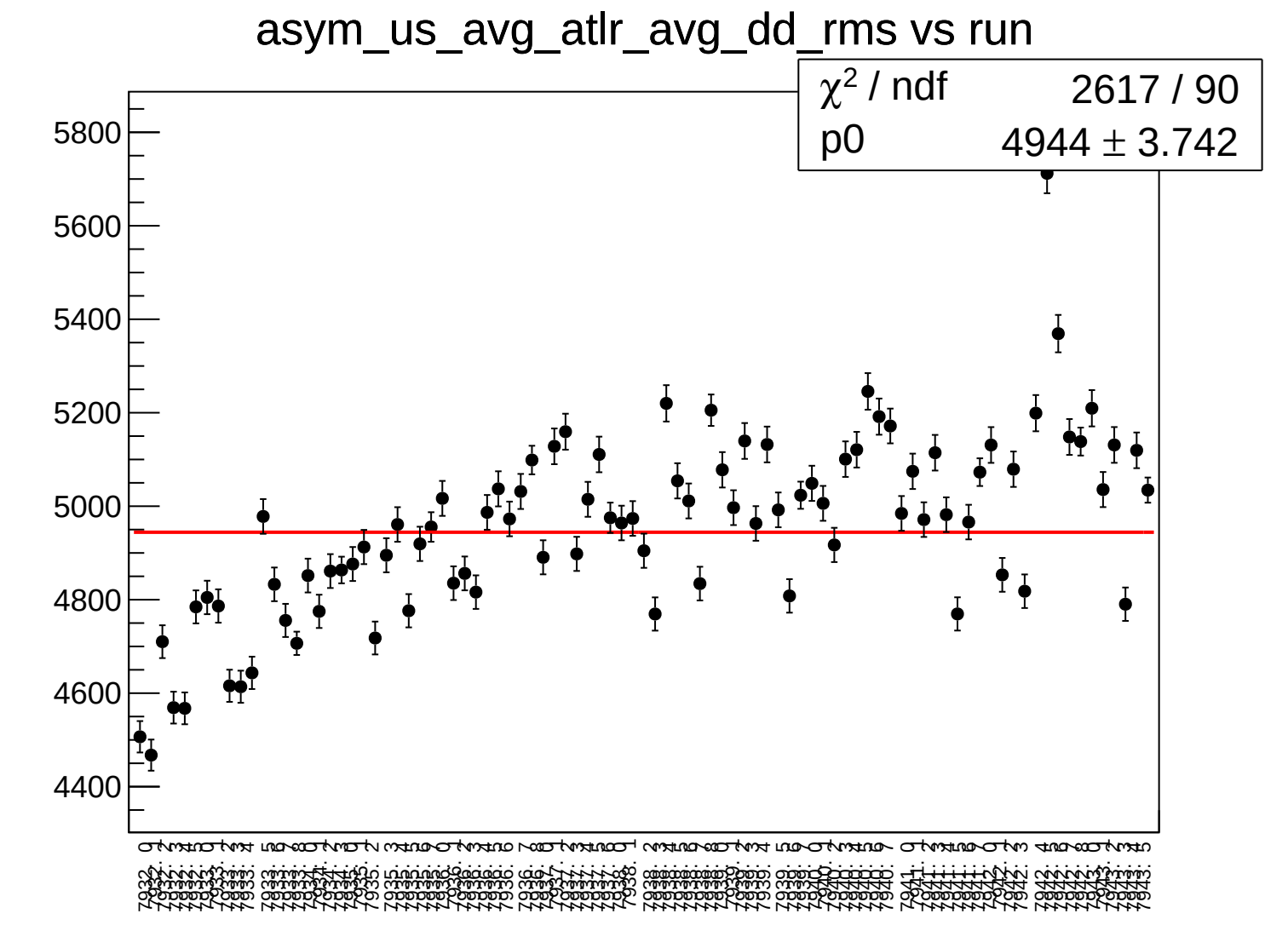

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 120.4 / 90
p0 1821 ± 5218
pull
Entries 91
Mean −350.2
Std Dev 0

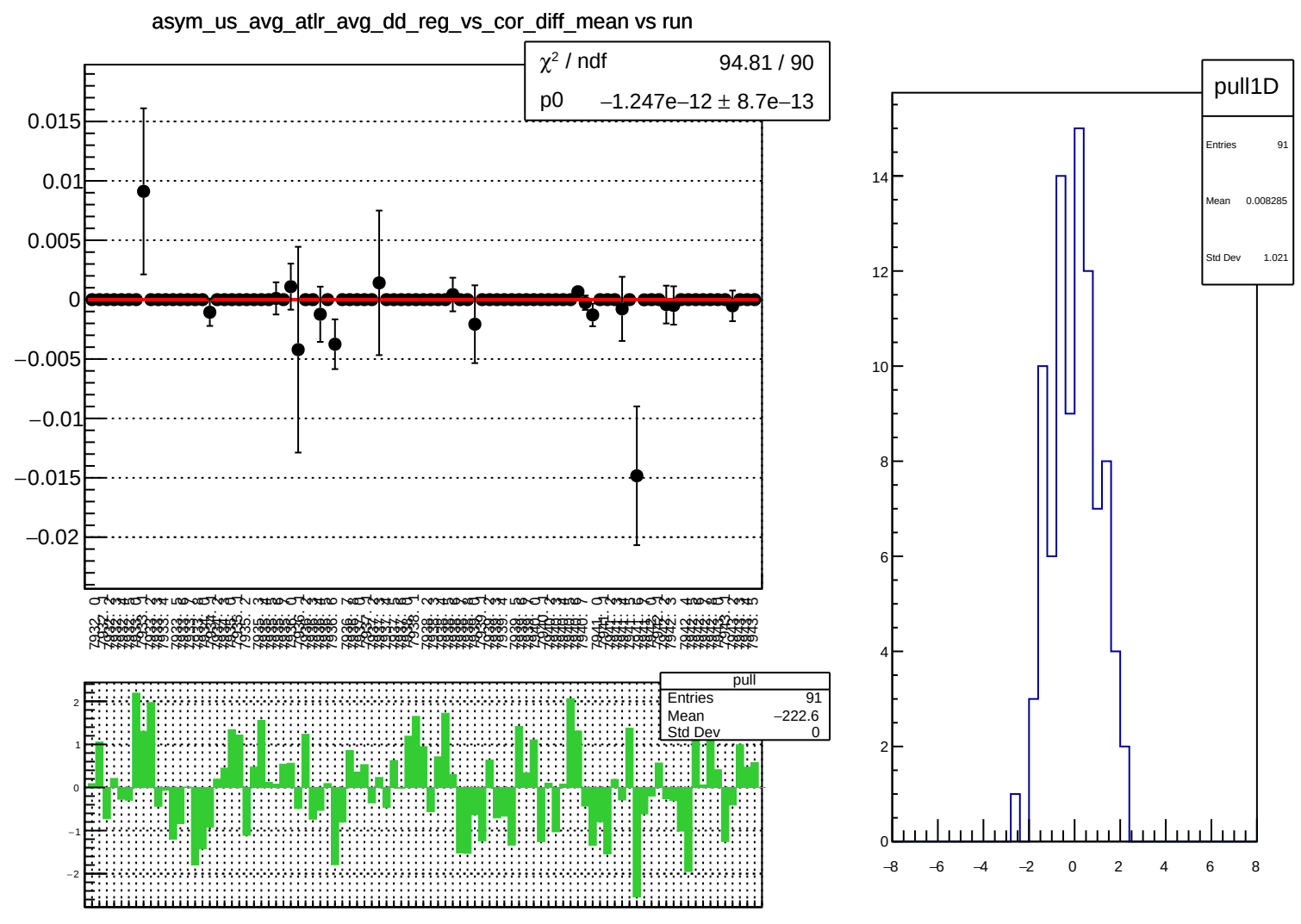

pull1D
Entries 91
Mean 0.00322
Std Dev 1.15

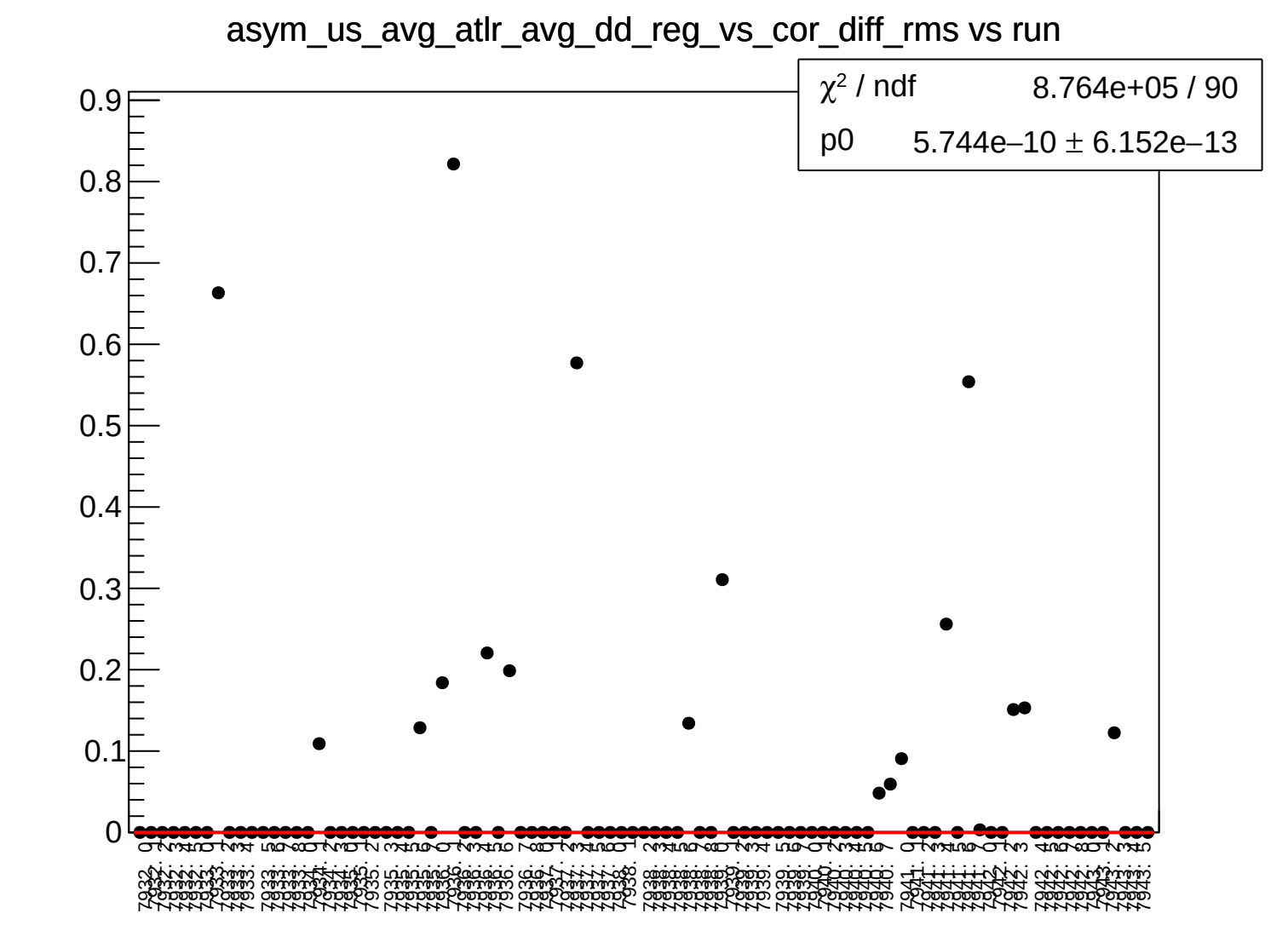

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3108 / 90
p0 4874 ± 3.69
5600
5400
5200
5000
4800
4600
4400
4200

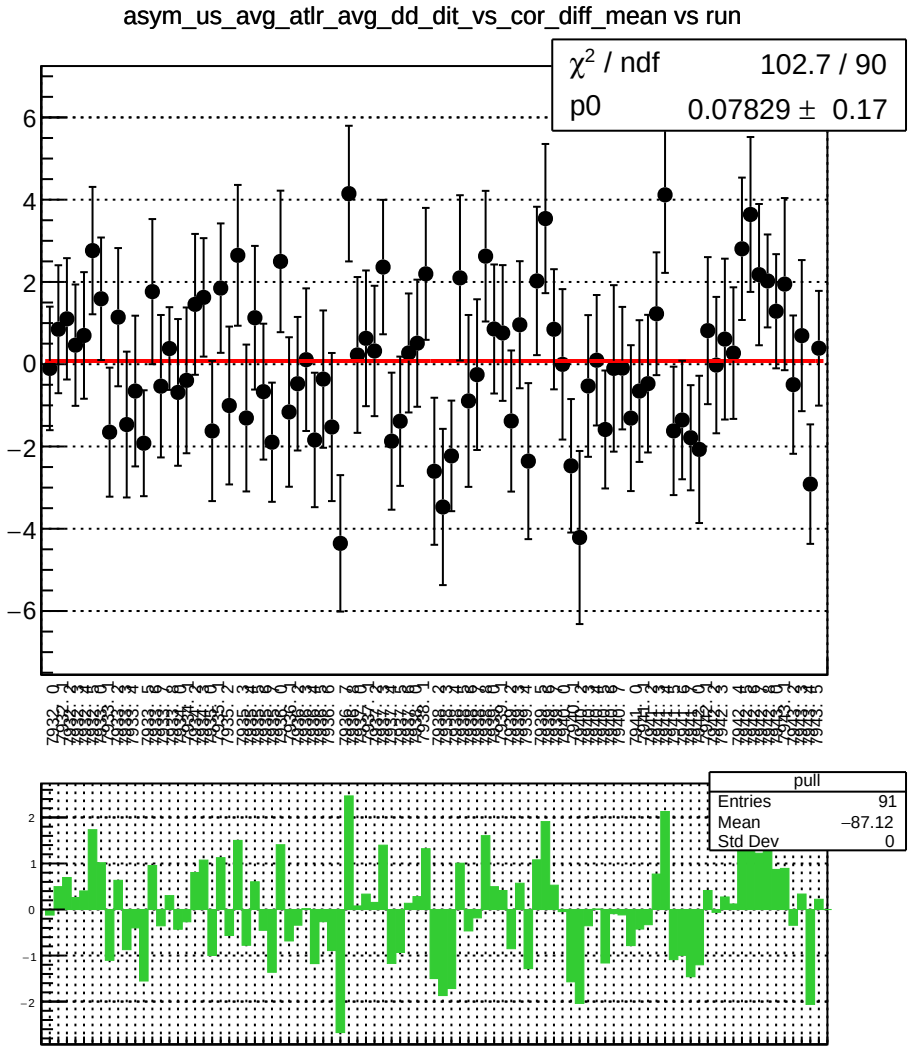

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 119.7 / 90
p0 −2103 ± 5292
pull
Entries 91
Mean −118
Std Dev 0

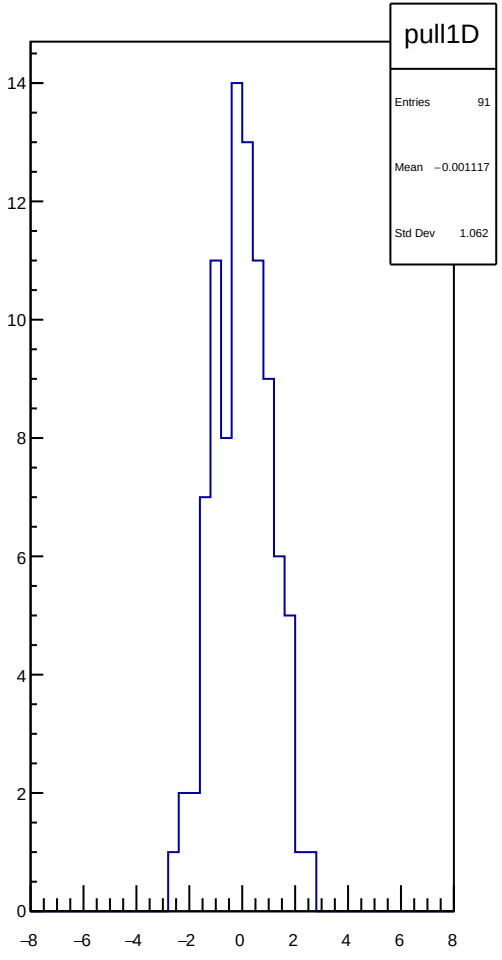

pull1D
Entries 91
Mean −0.0036
Std Dev 1.147

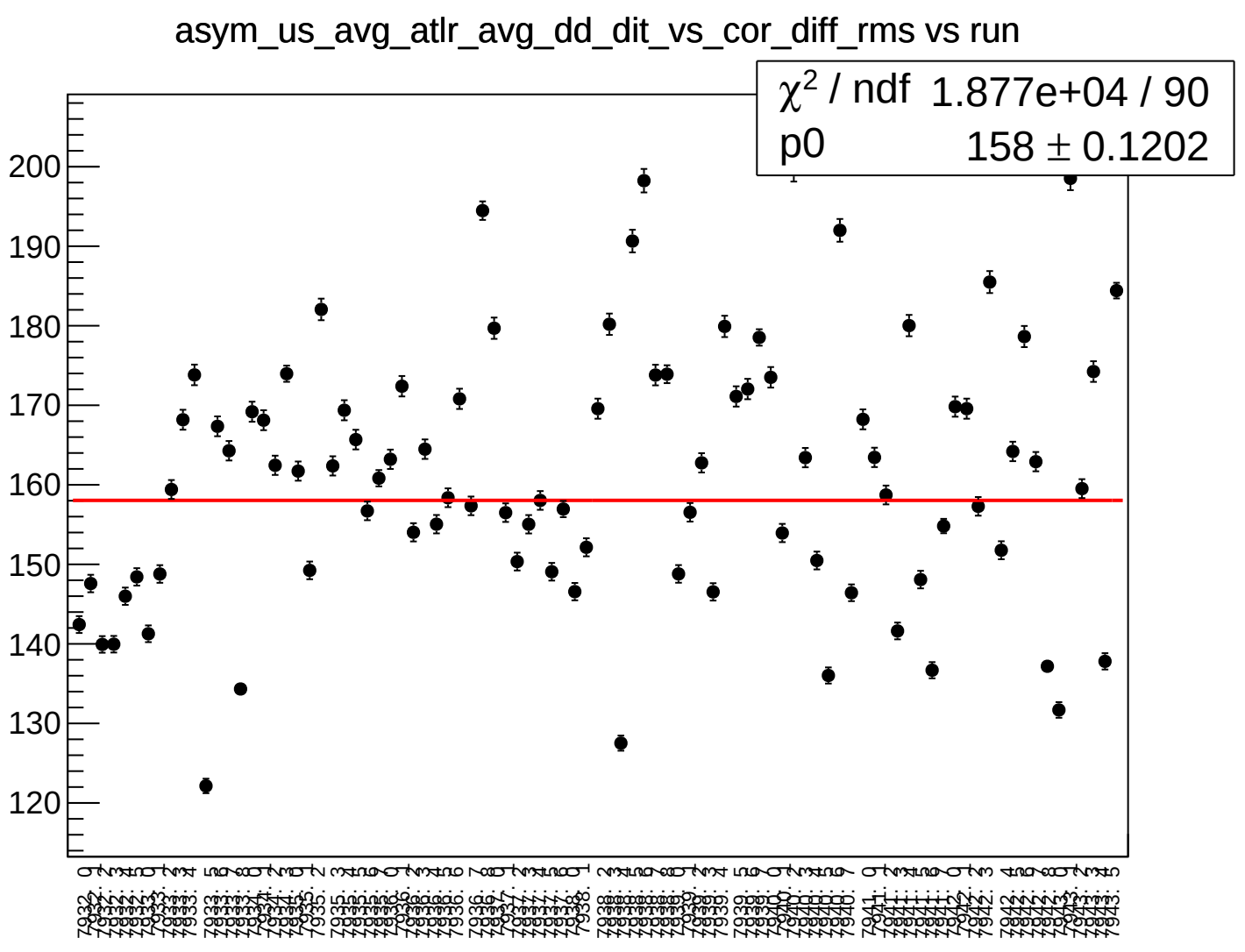

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2617 / 90
p0 4944 ± 3.742
5800
5600
5400
5200
5000
4800
4600
4400

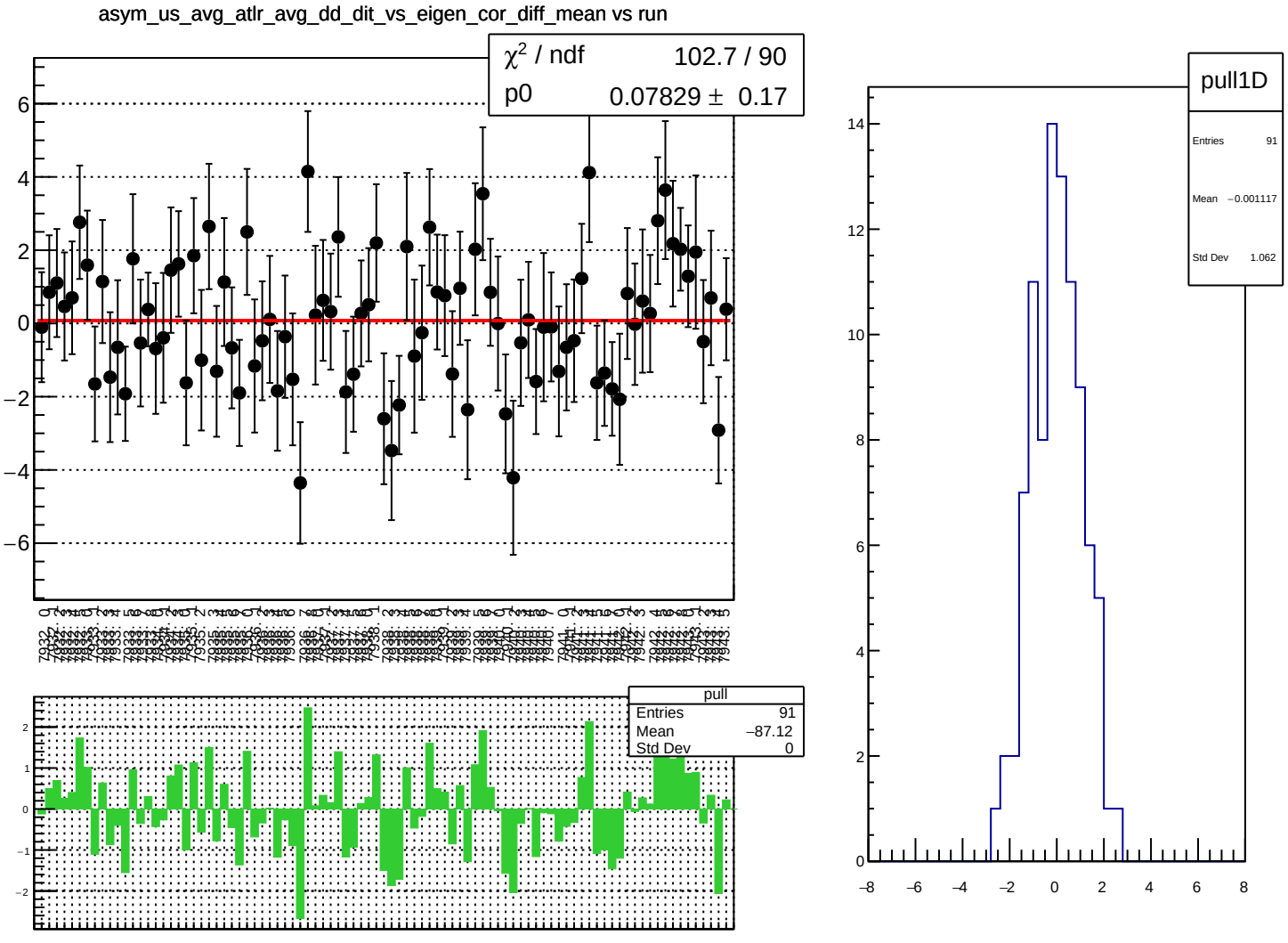

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.81 / 90
p0 −1.247e−12 ± 8.7e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean −222.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.008285
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

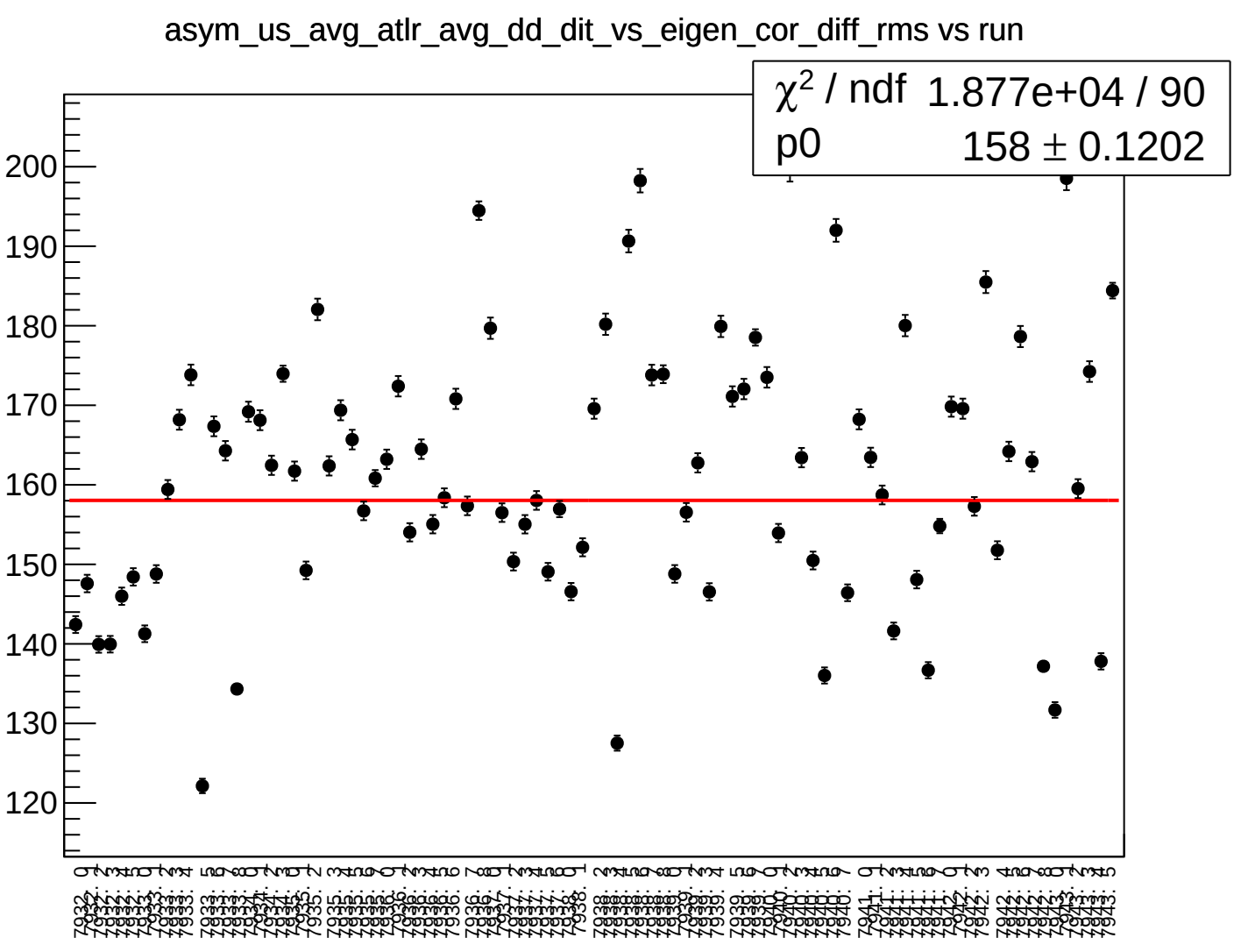

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.764e+05 / 90
p0 5.744e−10 ± 6.152e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

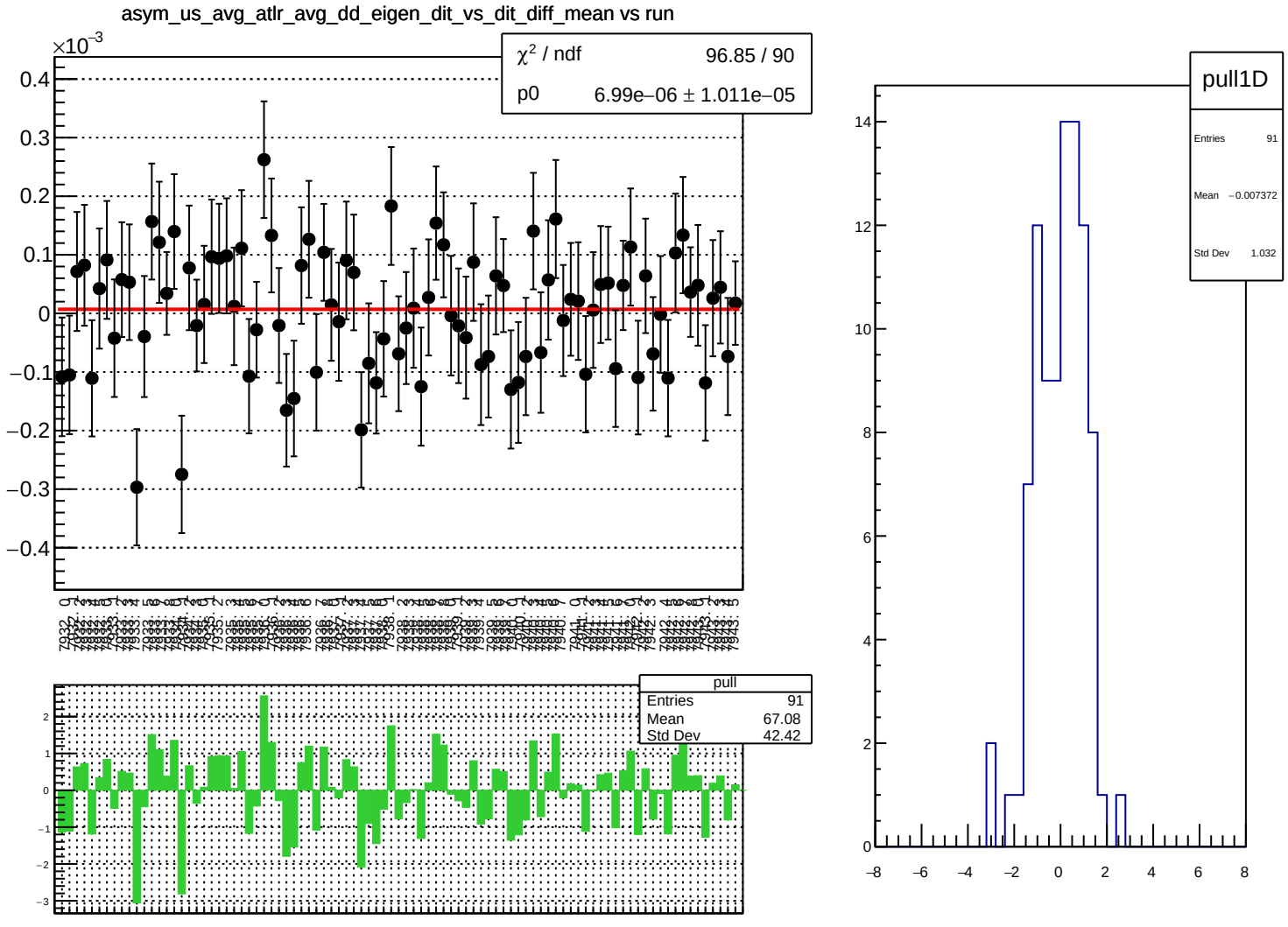

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 90
p0 0.07829 ± 0.17
pull
Entries 91
Mean −87.12
Std Dev 0

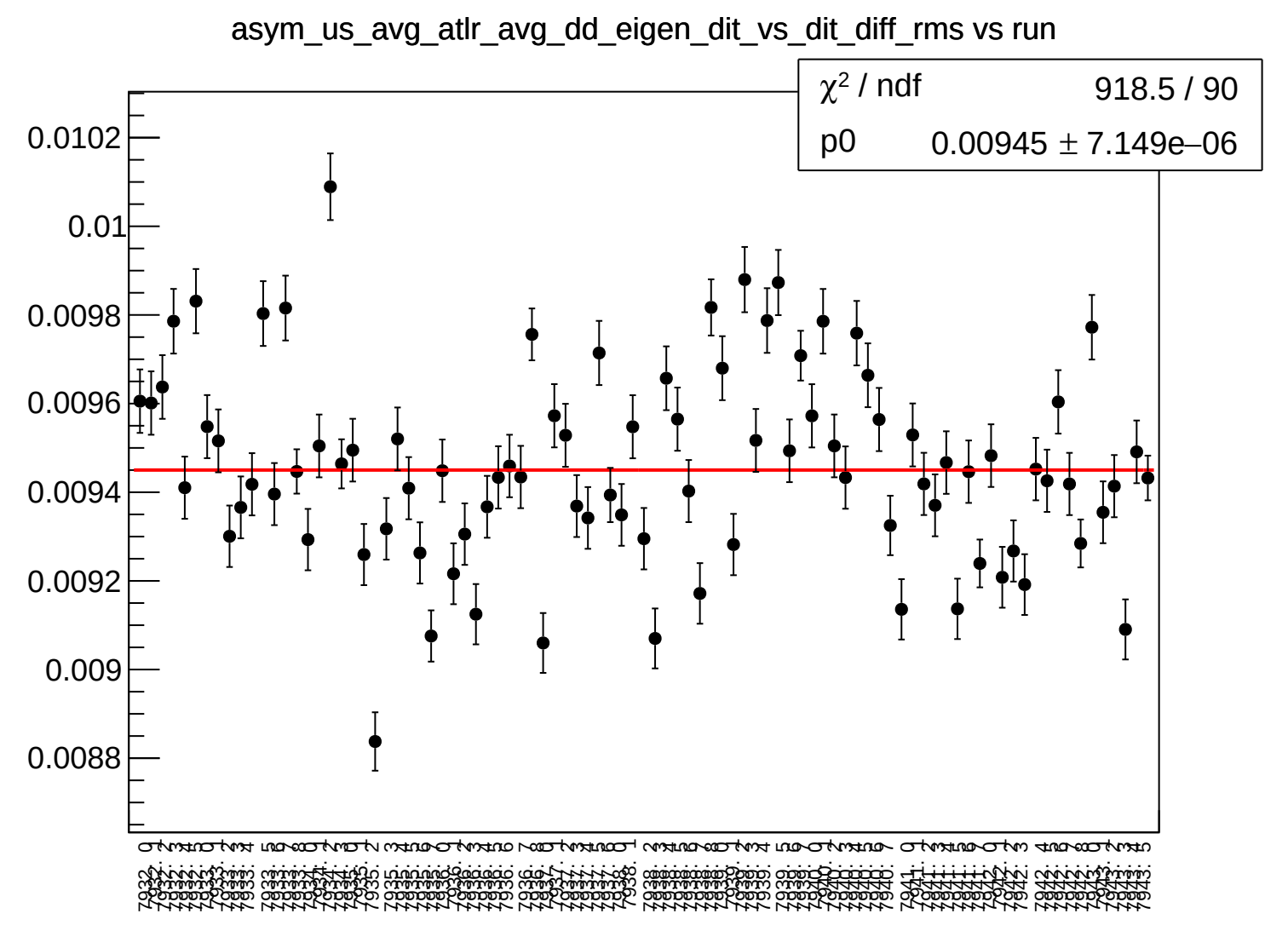

pull1D
Entries 91
Mean −0.001117
Std Dev 1.062

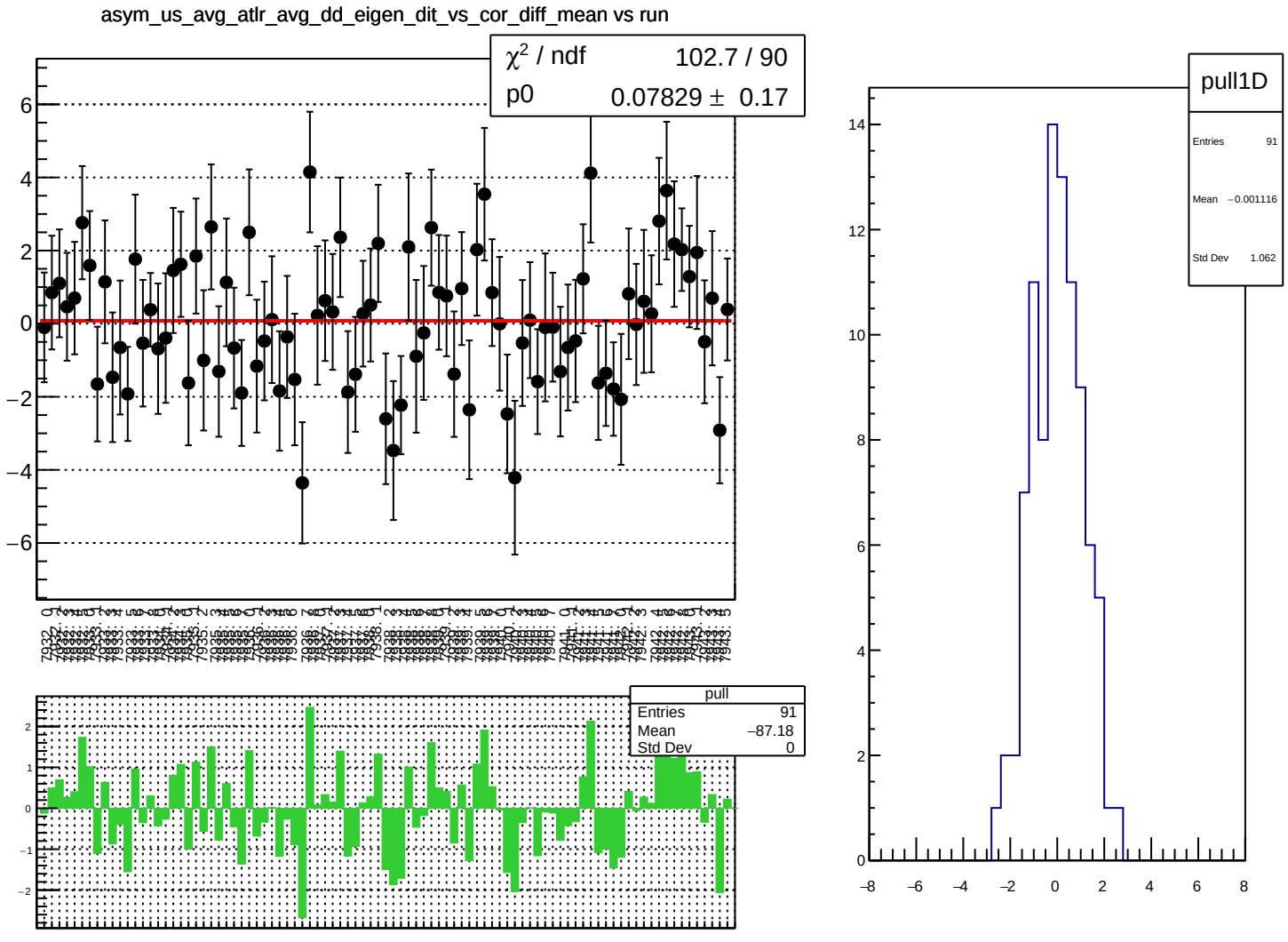

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.877e+04 / 90
p0 158 ± 0.1202
200
190
180
170
160
150
140
130
120

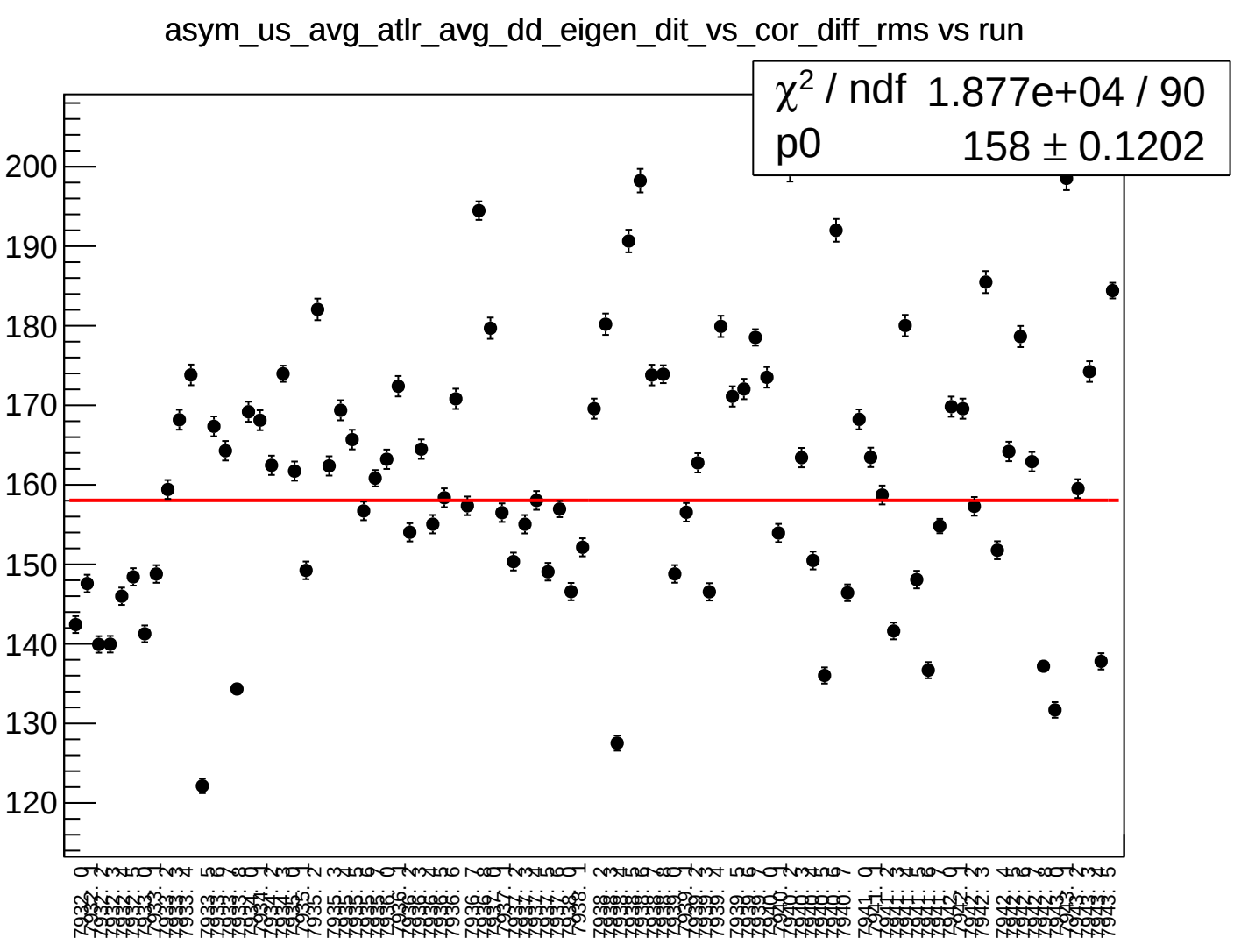

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 90
p0 0.07829 ± 0.17
pull
Entries 91
Mean −87.12
Std Dev 0
pull1D
Entries 91
Mean −0.001117
Std Dev 1.062

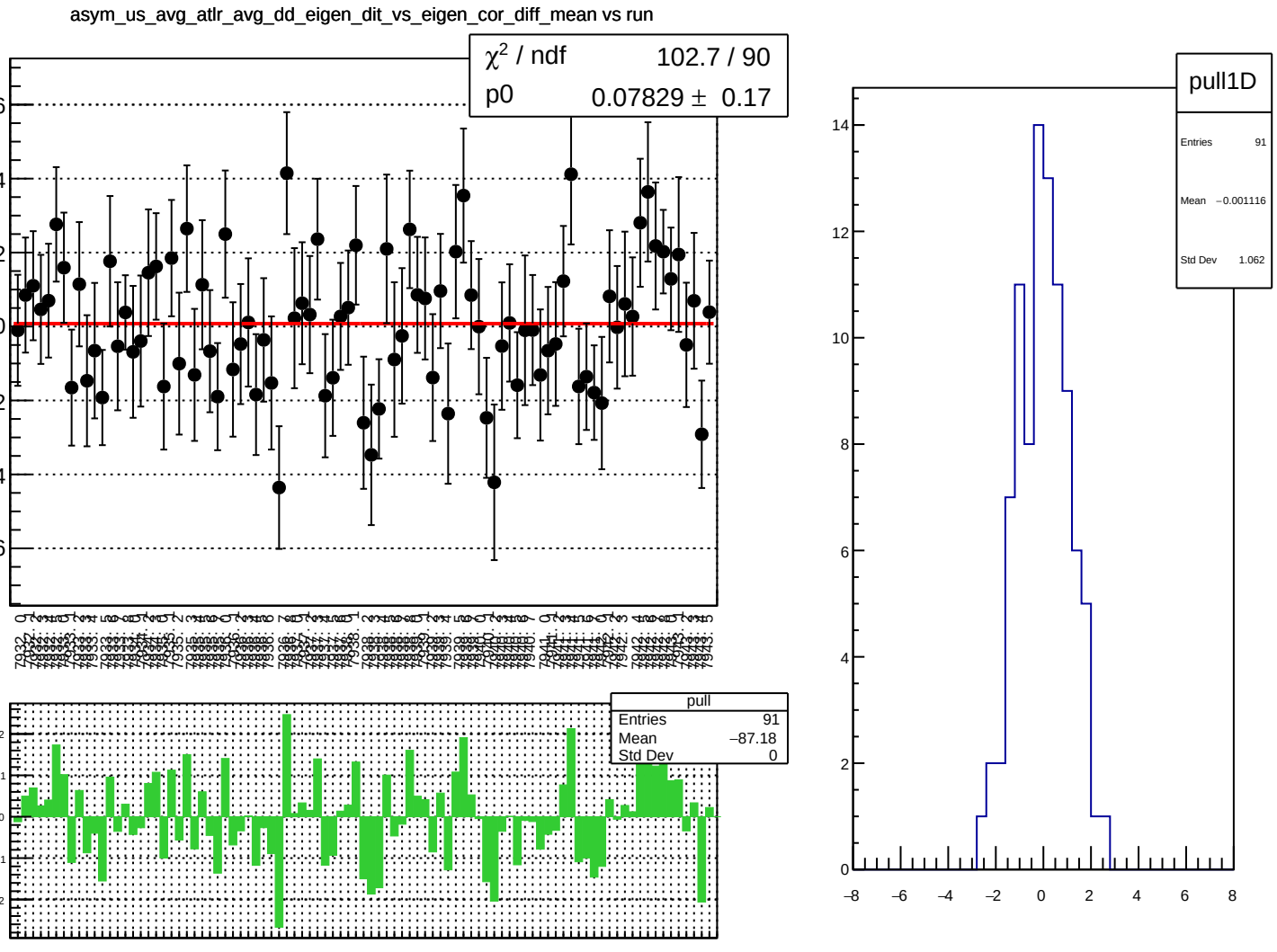

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.877e+04 / 90
p0 158 ± 0.1202
200
190
180
170
160
150
140
130
120

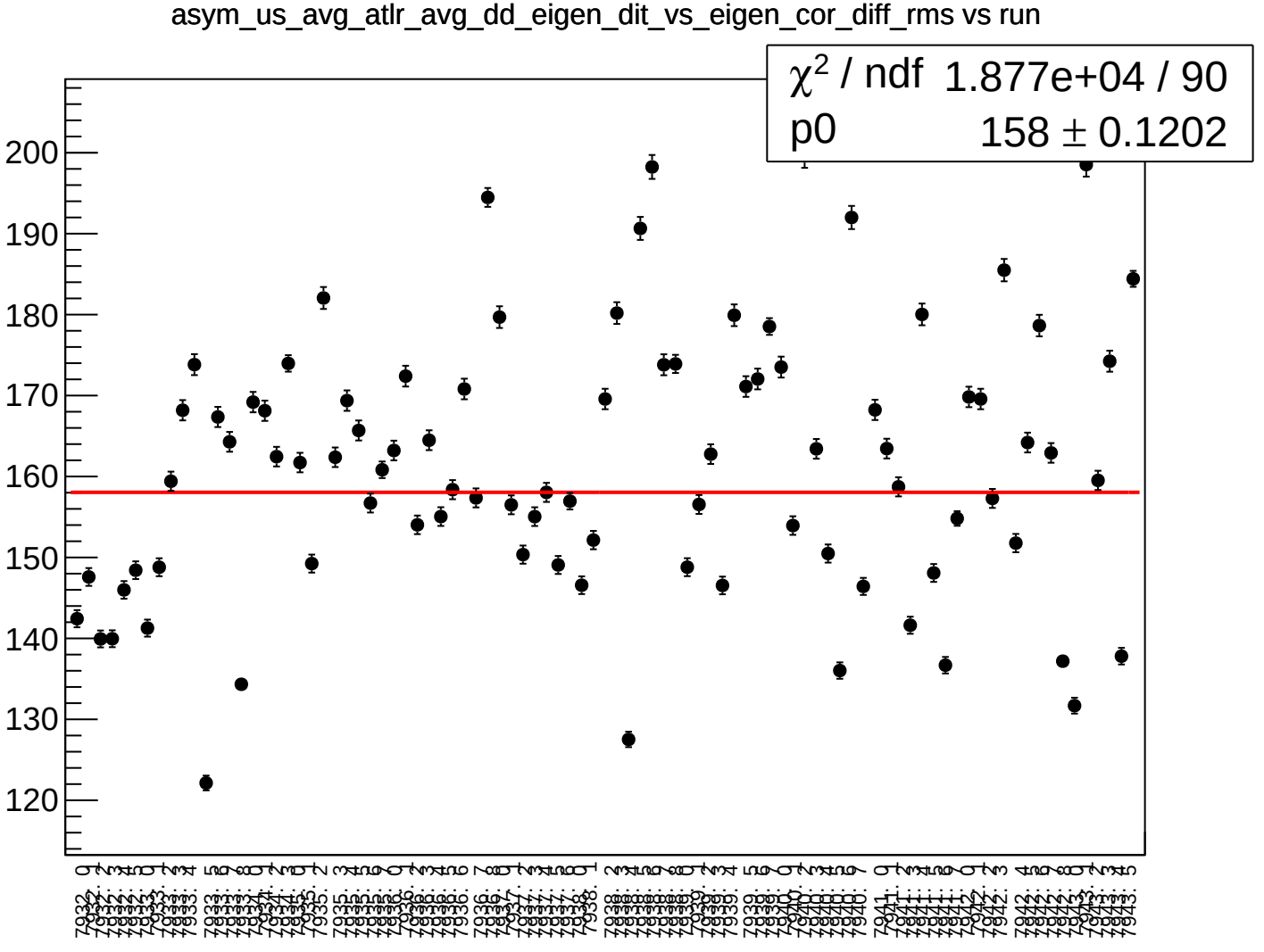

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.85 / 90
p0 6.99e−06 ± 1.011e−05
pull
Entries 91
Mean 67.08
Std Dev 42.42
pull1D
Entries 91
Mean −0.007372
Std Dev 1.032

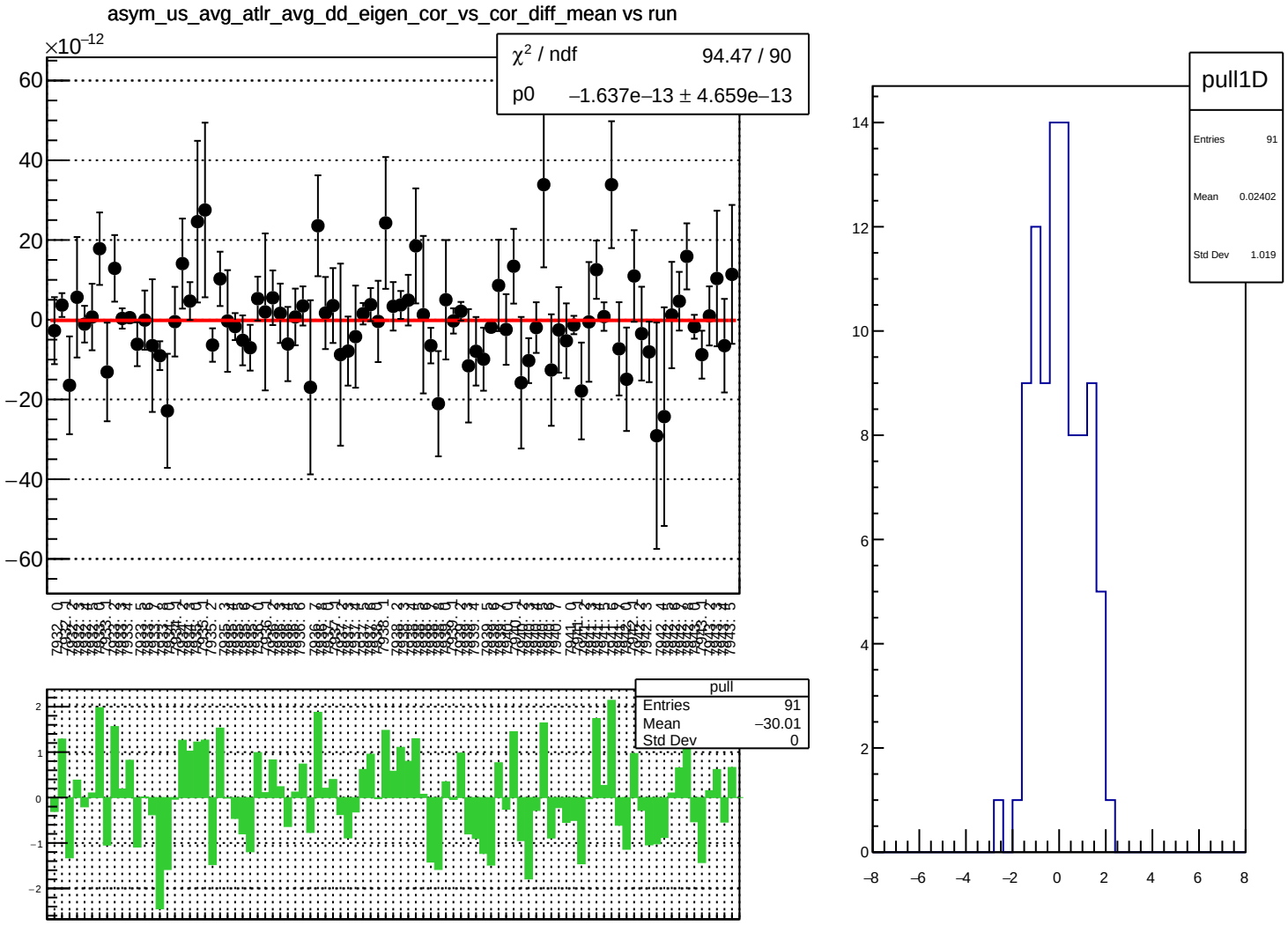

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 918.5 / 90
p0 0.00945 ± 7.149e−06
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088

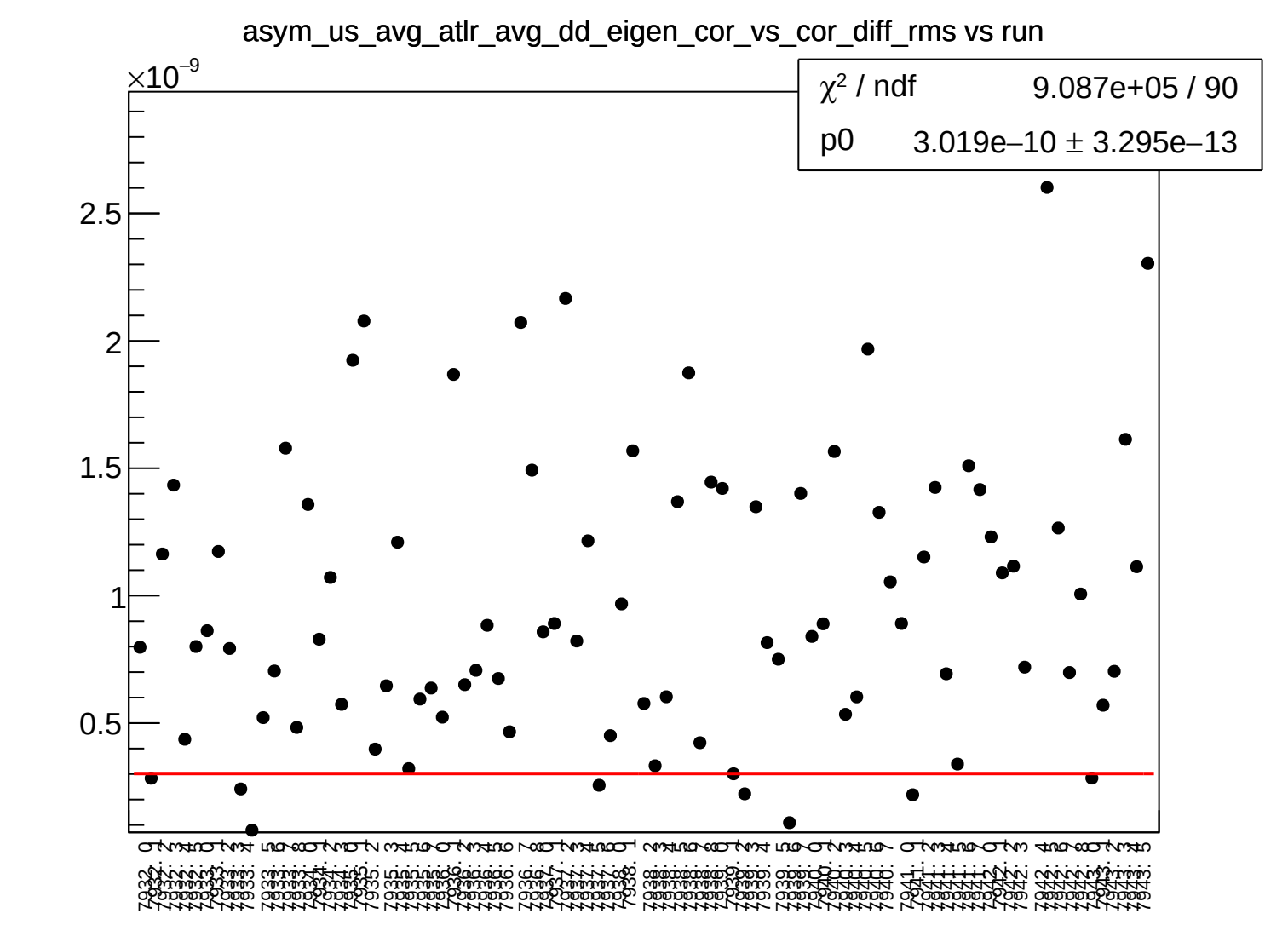

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 90
p0 0.07829 ± 0.17
pull
Entries 91
Mean −87.18
Std Dev 0
pull1D
Entries 91
Mean −0.001116
Std Dev 1.062

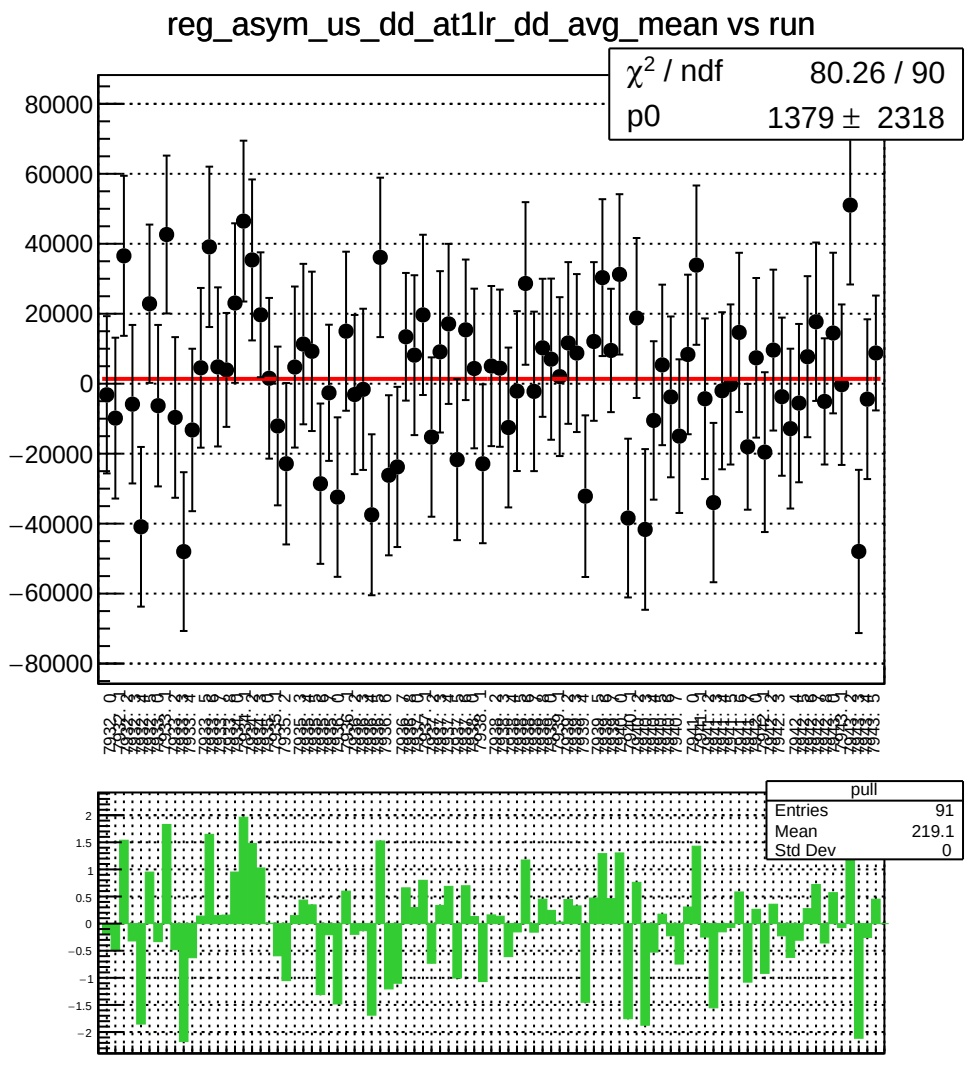

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.877e+04 / 90
p0 158 ± 0.1202
200
190
180
170
160
150
140
130
120

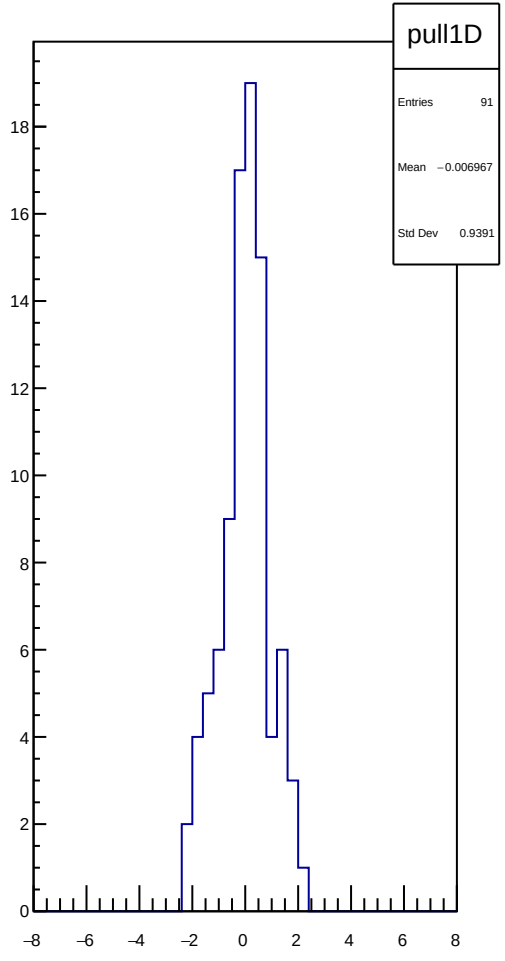

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 90
p0 0.07829 ± 0.17
pull
Entries 91
Mean −87.18
Std Dev 0
pull1D
Entries 91
Mean −0.001116
Std Dev 1.062

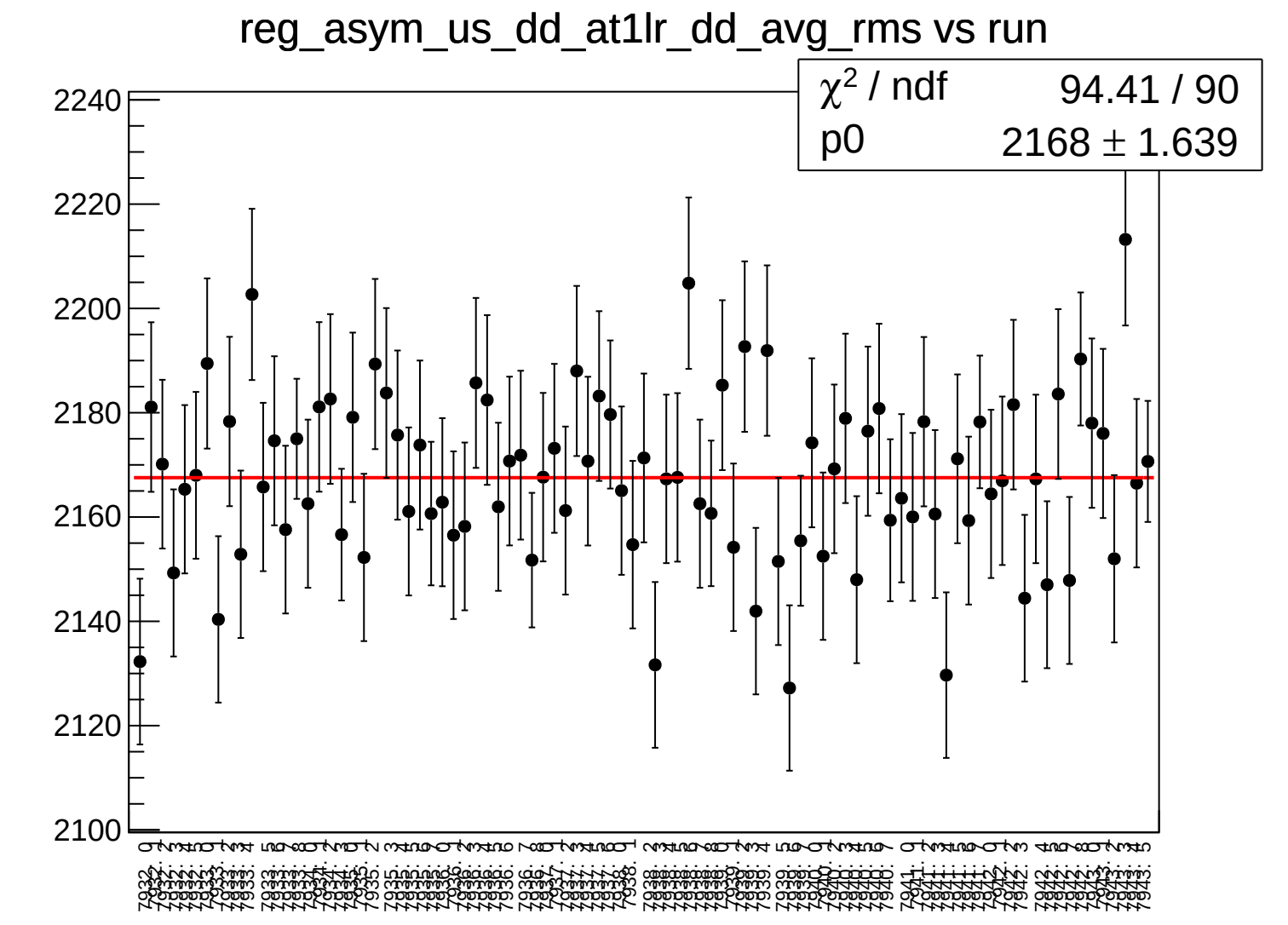

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.877e+04 / 90
p0 158 ± 0.1202
200
190
180
170
160
150
140
130
120

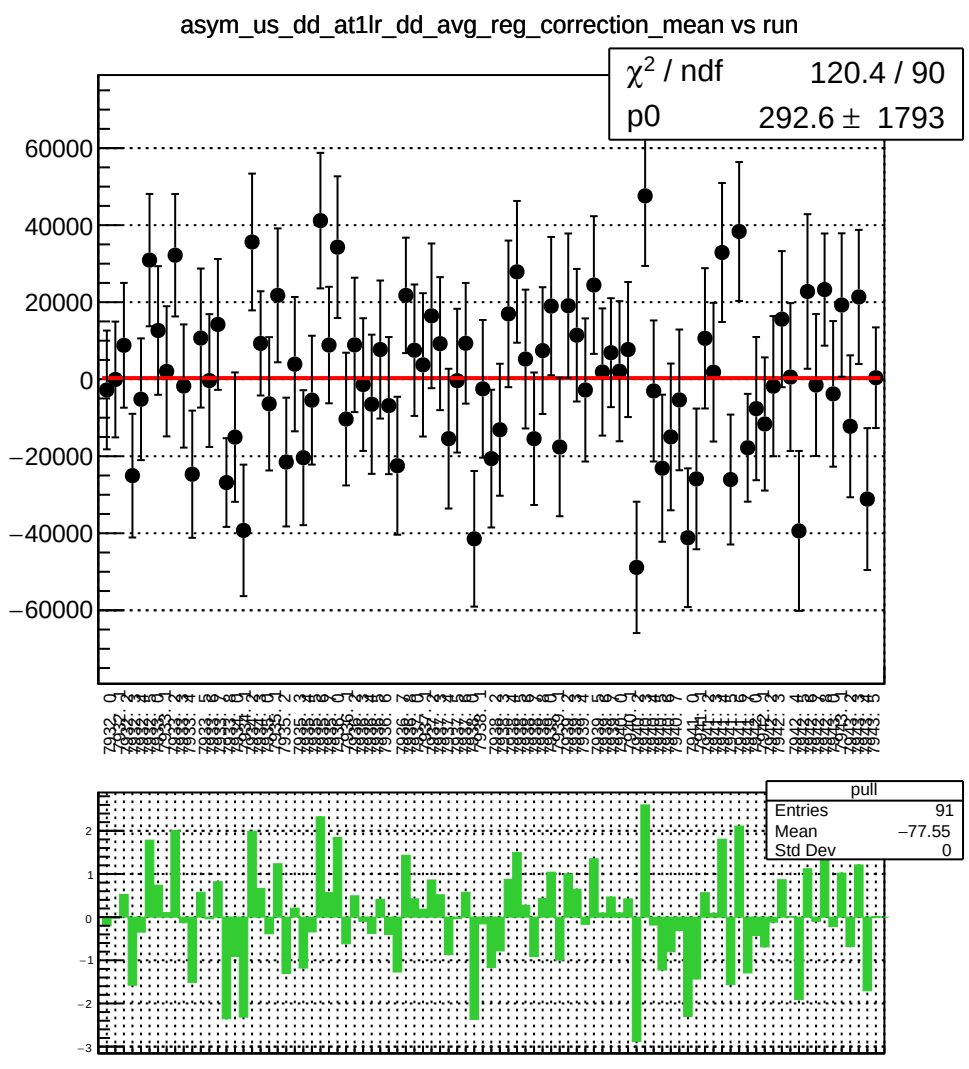

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.47 / 90
p0 −1.637e−13 ± 4.659e−13
pull
Entries 91
Mean −30.01
Std Dev 0
pull1D
Entries 91
Mean 0.02402
Std Dev 1.019

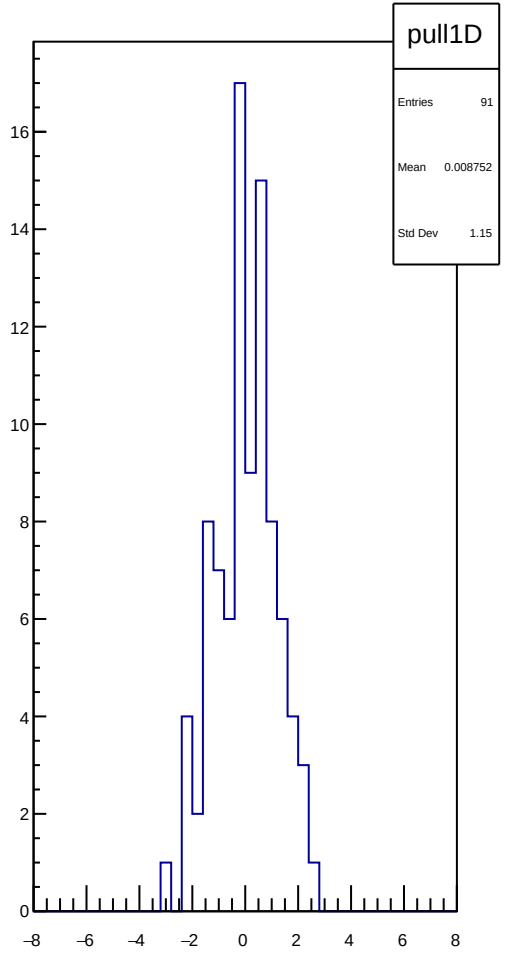

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.087e+05 / 90
p0 3.019e−10 ± 3.295e−13
2.5
2
1.5
1
0.5

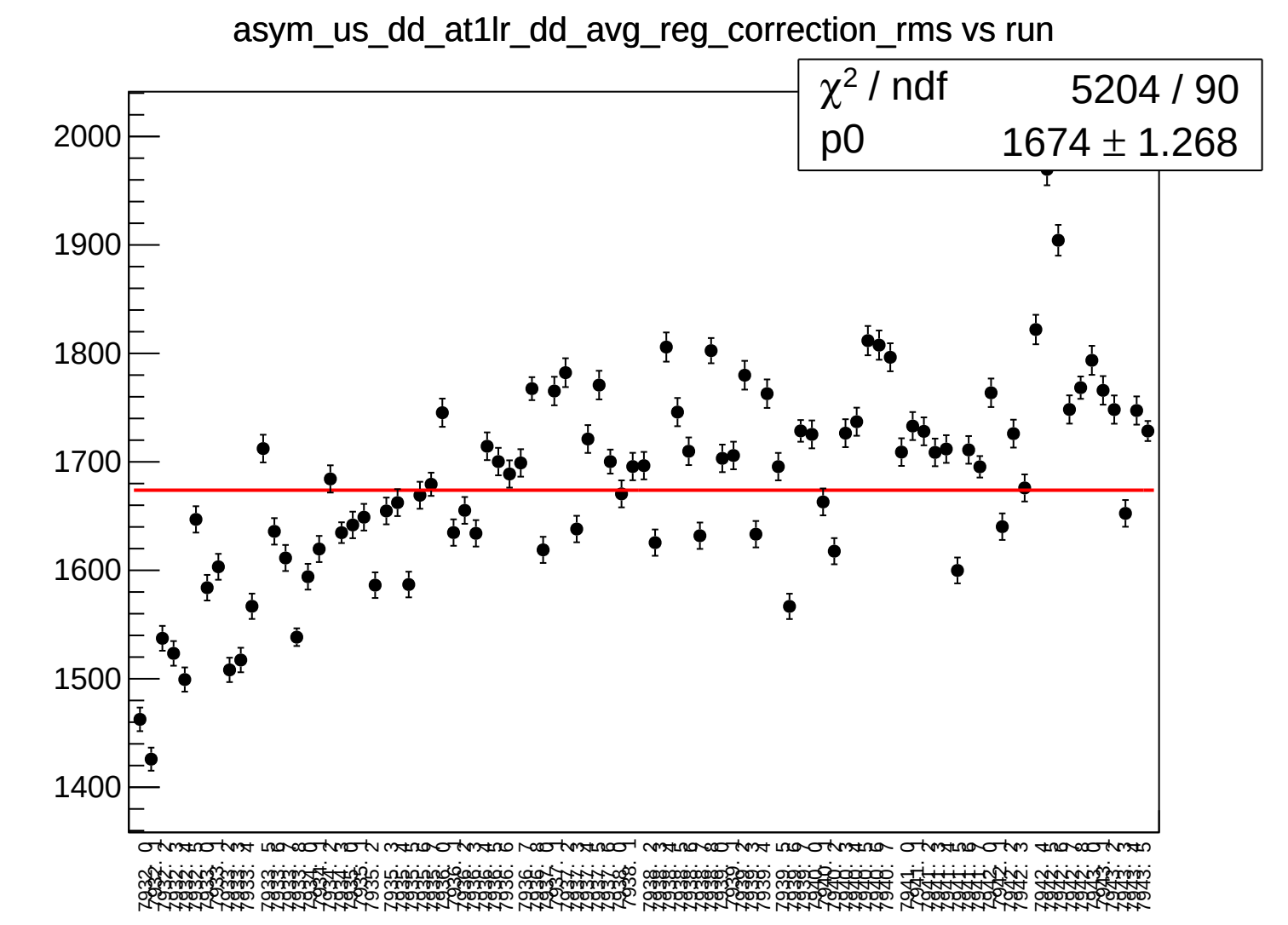

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 80.26 / 90
p0 1379 ± 2318
pull
Entries 91
Mean 219.1
Std Dev 0

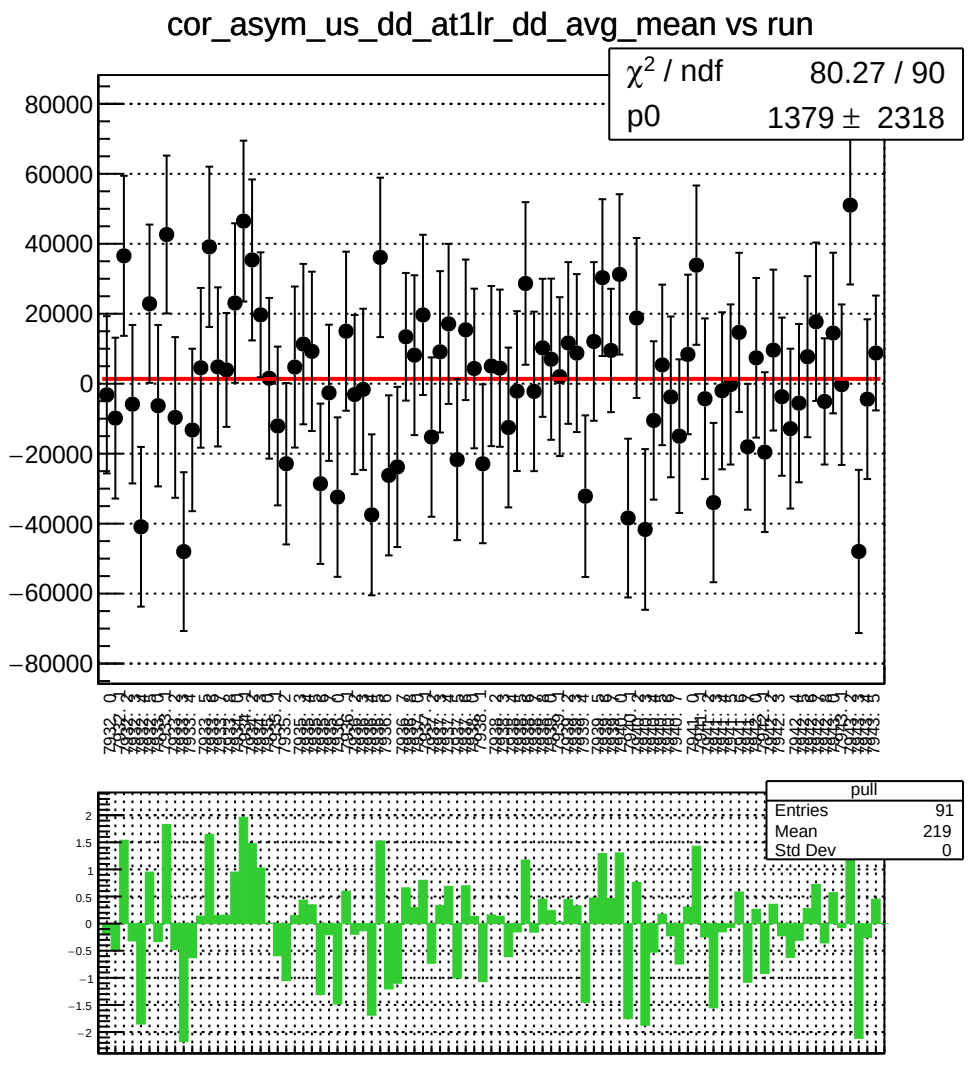

pull1D
Entries 91
Mean −0.006967
Std Dev 0.9391

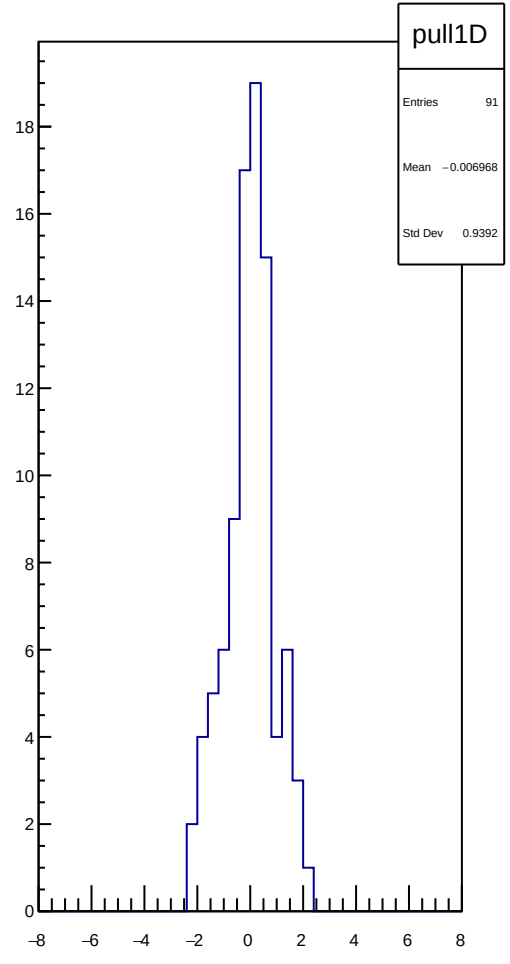

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 94.41 / 90
p0 2168 ± 1.639
2240
2220
2200
2180
2160
2140
2120
2100

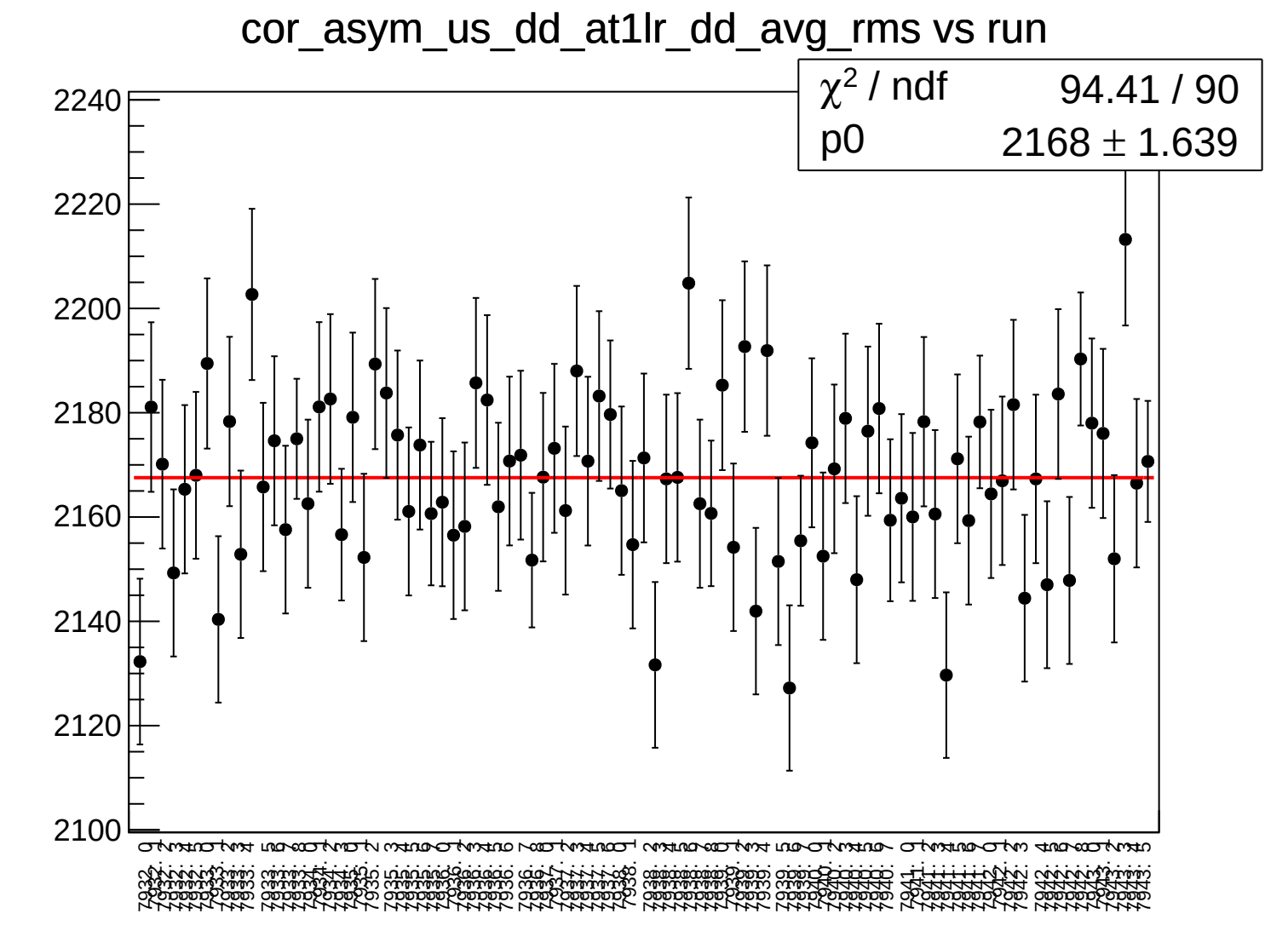

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 120.4 / 90
p0 292.6 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −77.55
Std Dev 0
2
1
0
−1
−2
−3

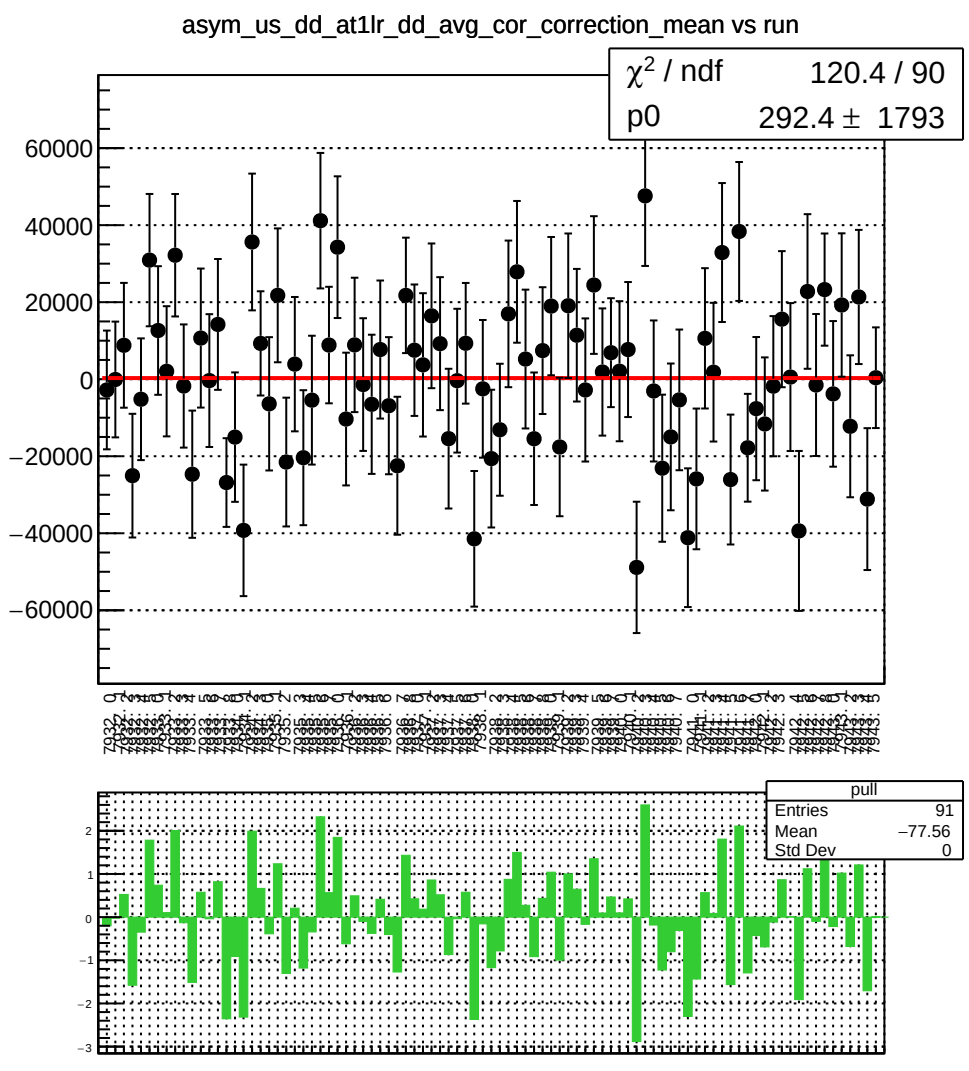

pull1D
Entries 91
Mean 0.008752
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

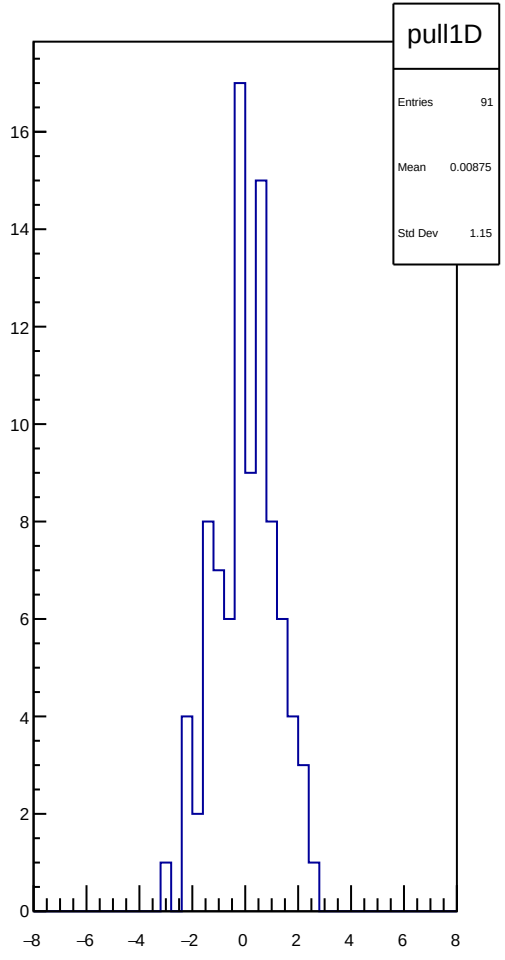

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5204 / 90
p0 1674 ± 1.268
2000
1900
1800
1700
1600
1500
1400

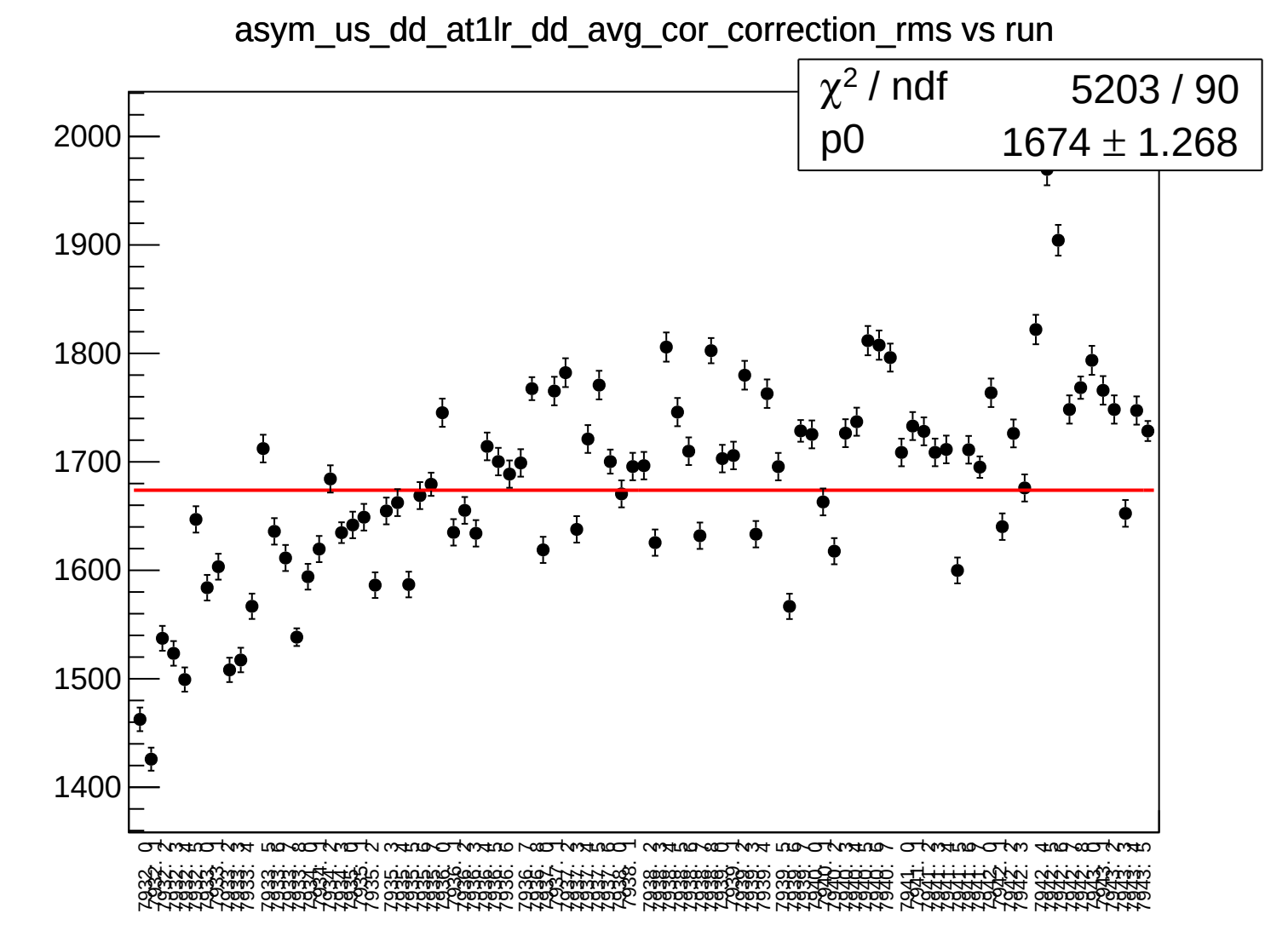

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 80.27 / 90
p0 1379 ± 2318
pull
Entries 91
Mean 219
Std Dev 0

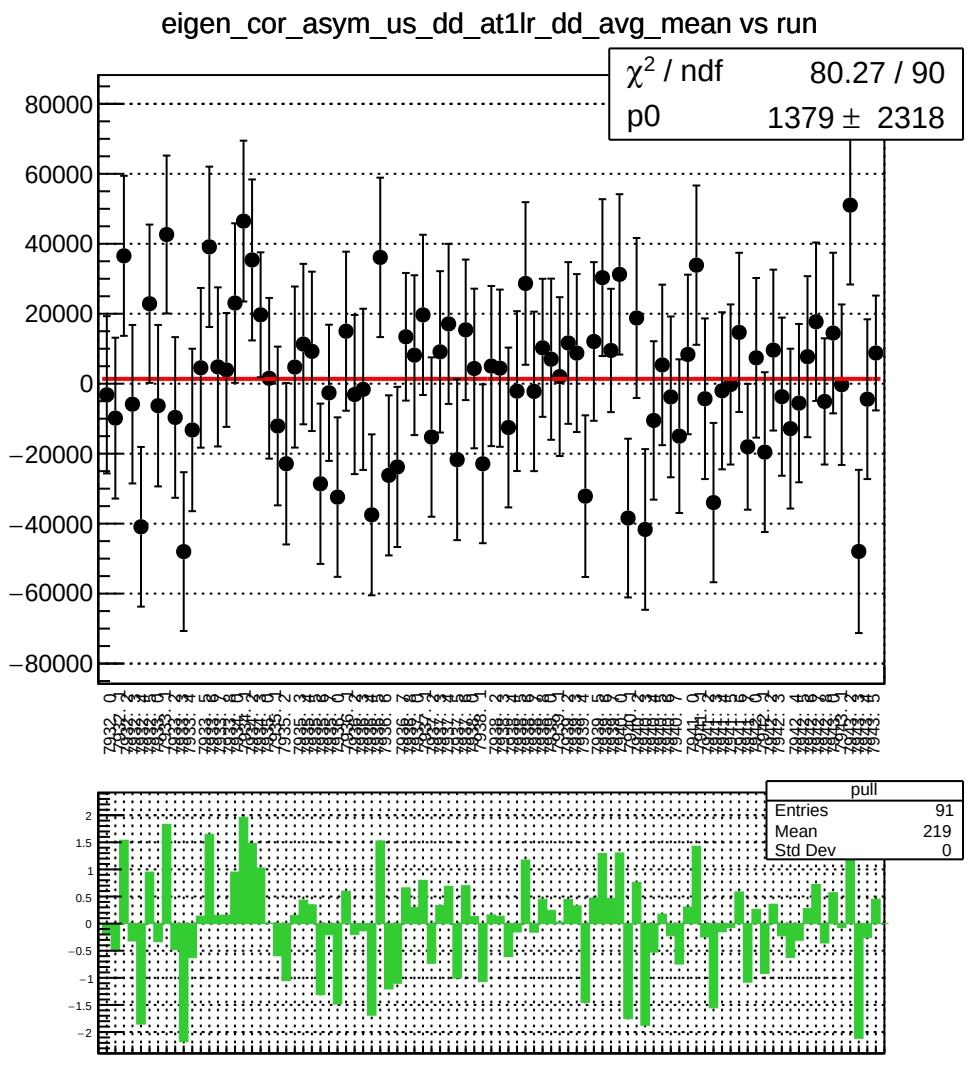

pull1D
Entries 91
Mean −0.006968
Std Dev 0.9392

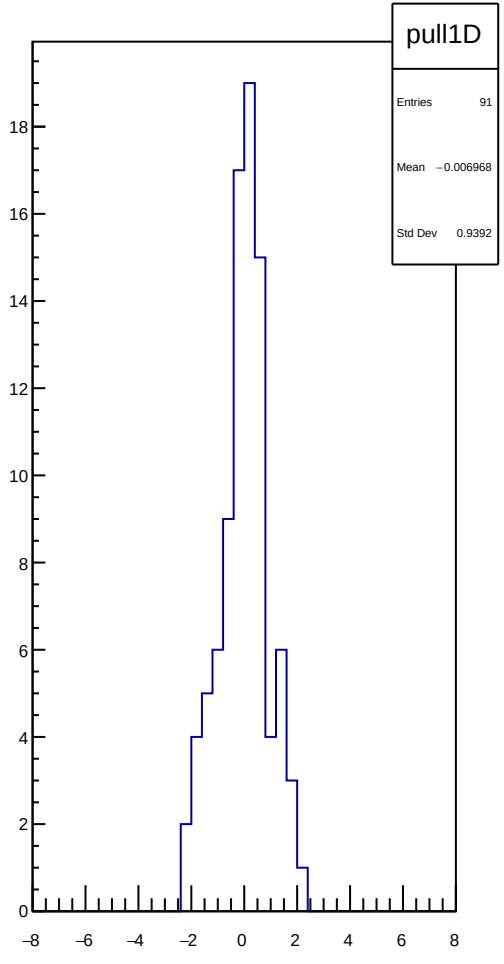

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 94.41 / 90
p0 2168 ± 1.639
2240
2220
2200
2180
2160
2140
2120
2100

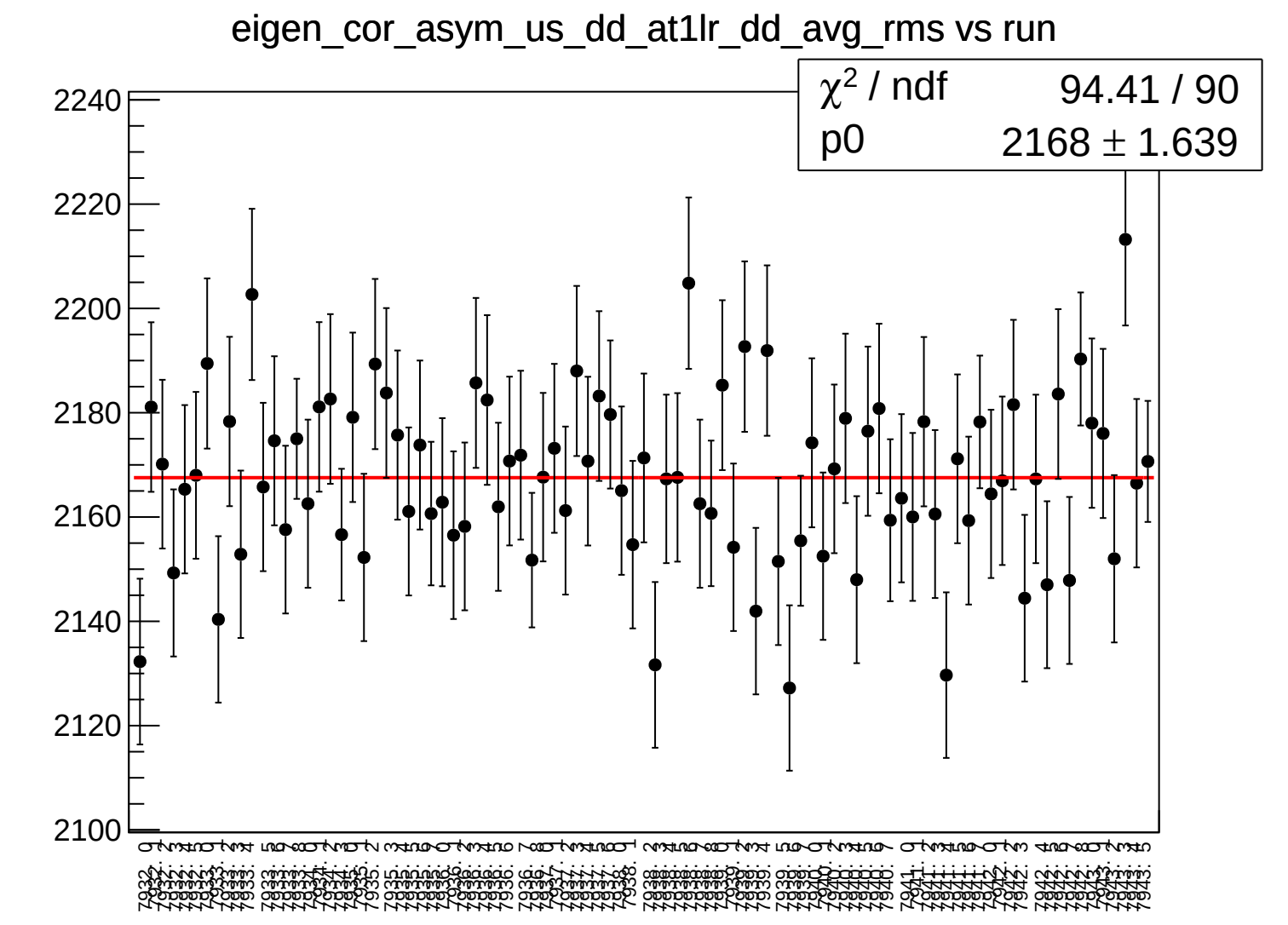

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 120.4 / 90
p0 292.4 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −77.56
Std Dev 0
2
1
0
−1
−2
−3

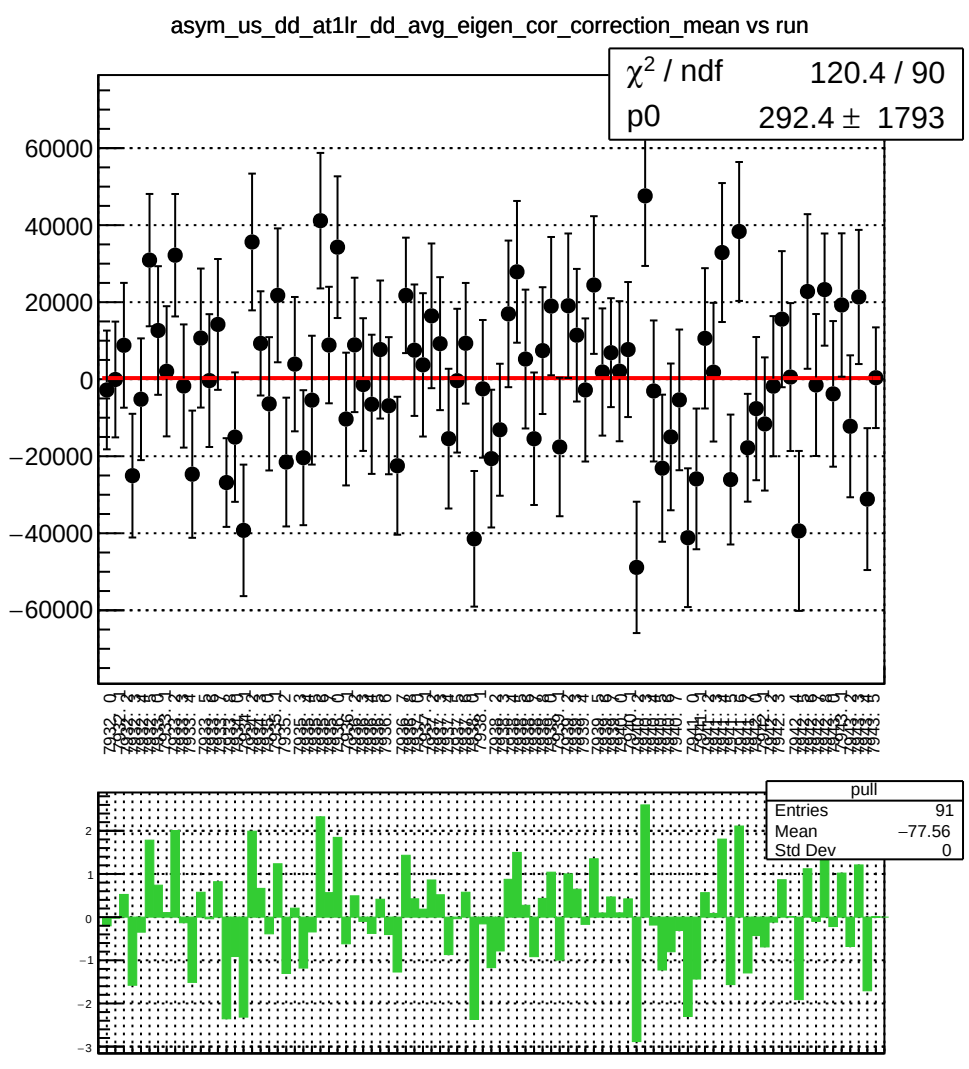

pull1D
Entries 91
Mean 0.00875
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

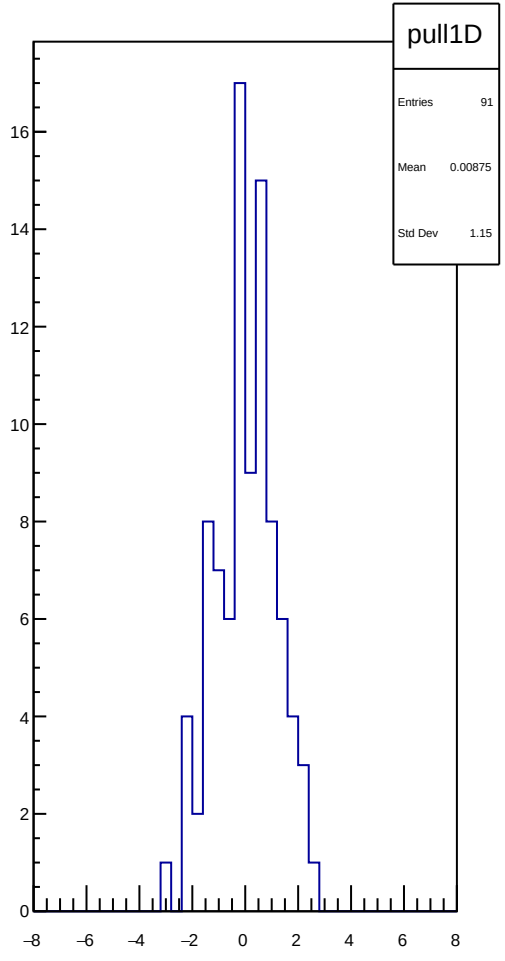

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5203 / 90
p0 1674 ± 1.268
2000
1900
1800
1700
1600
1500
1400

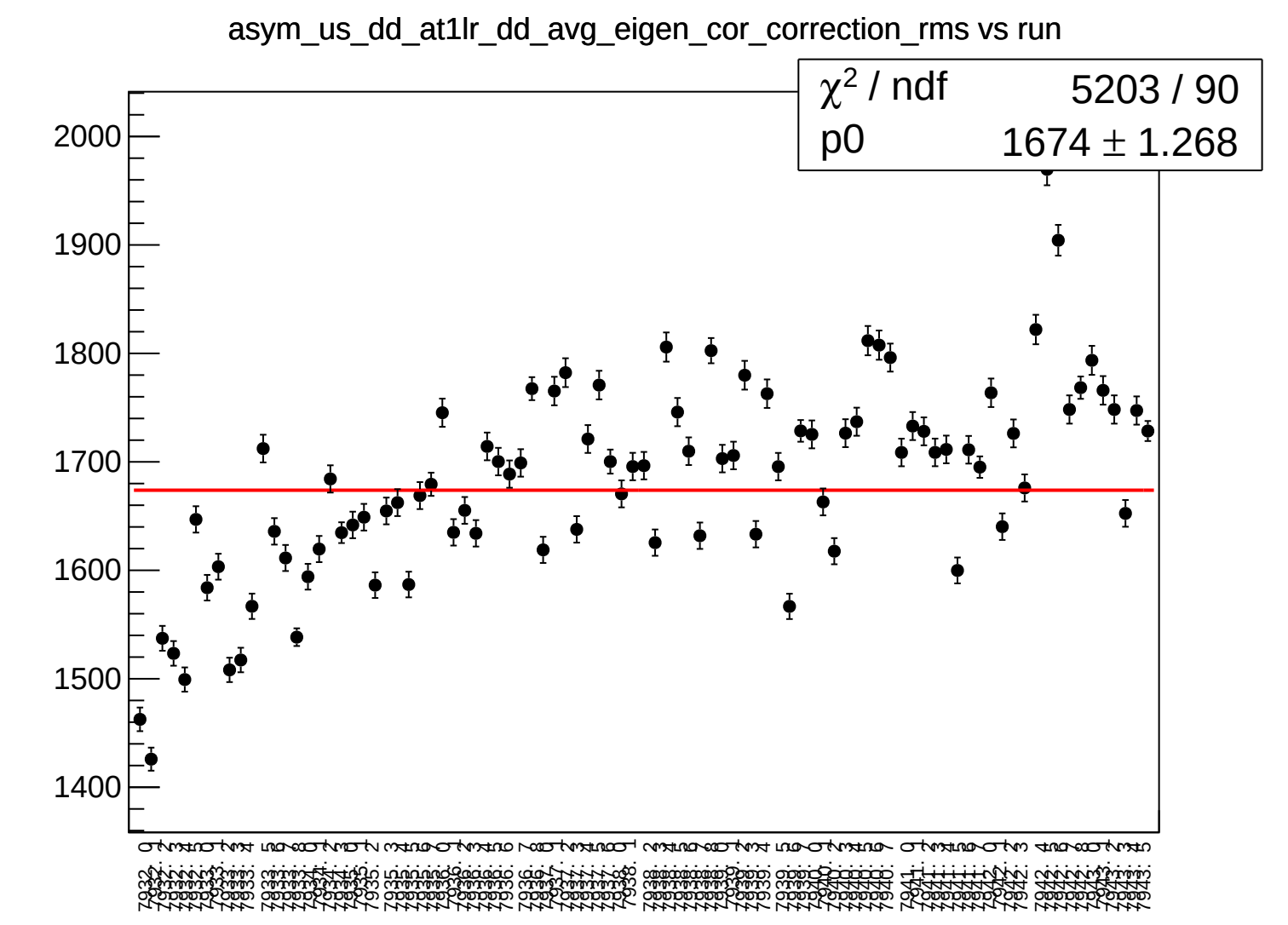

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 80.27 / 90
p0 1379 ± 2318
pull
Entries 91
Mean 219
Std Dev 0

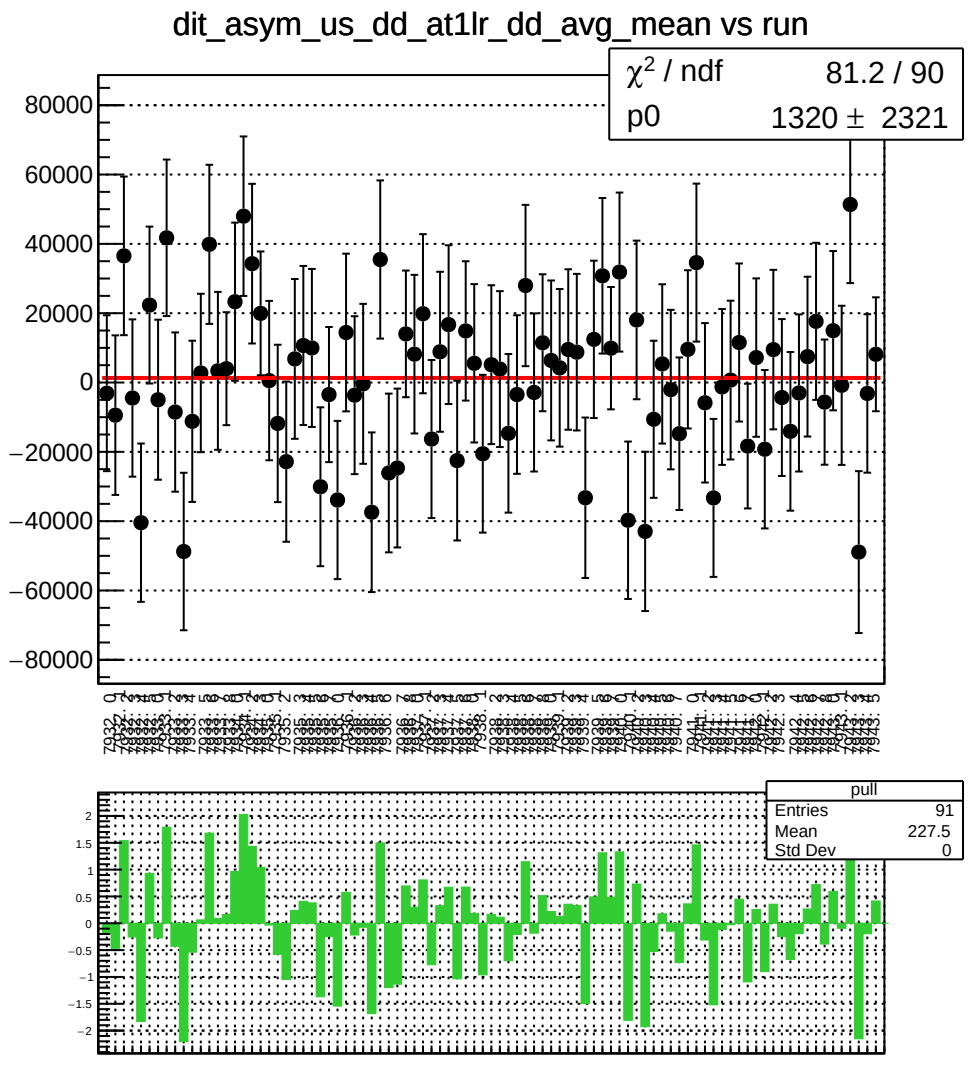

pull1D
Entries 91
Mean −0.006968
Std Dev 0.9392

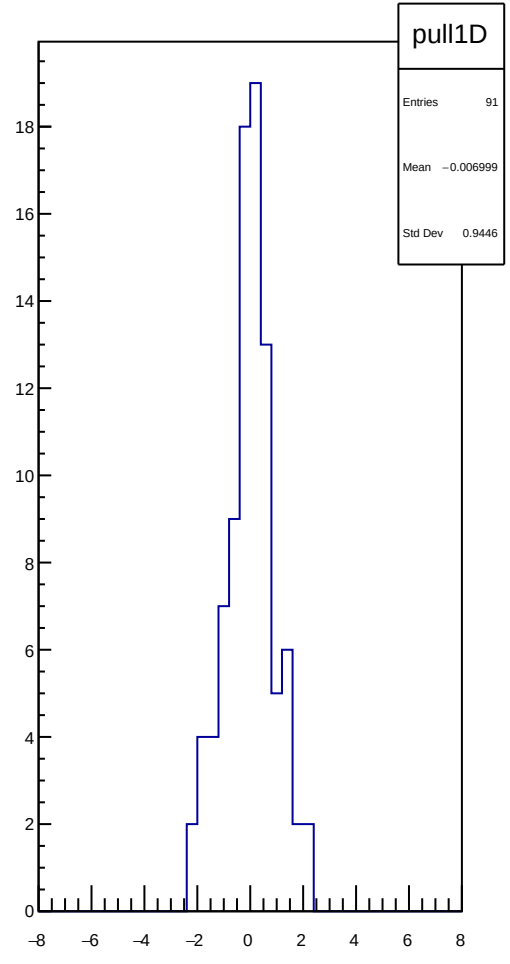

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 94.41 / 90
p0 2168 ± 1.639
2240
2220
2200
2180
2160
2140
2120
2100

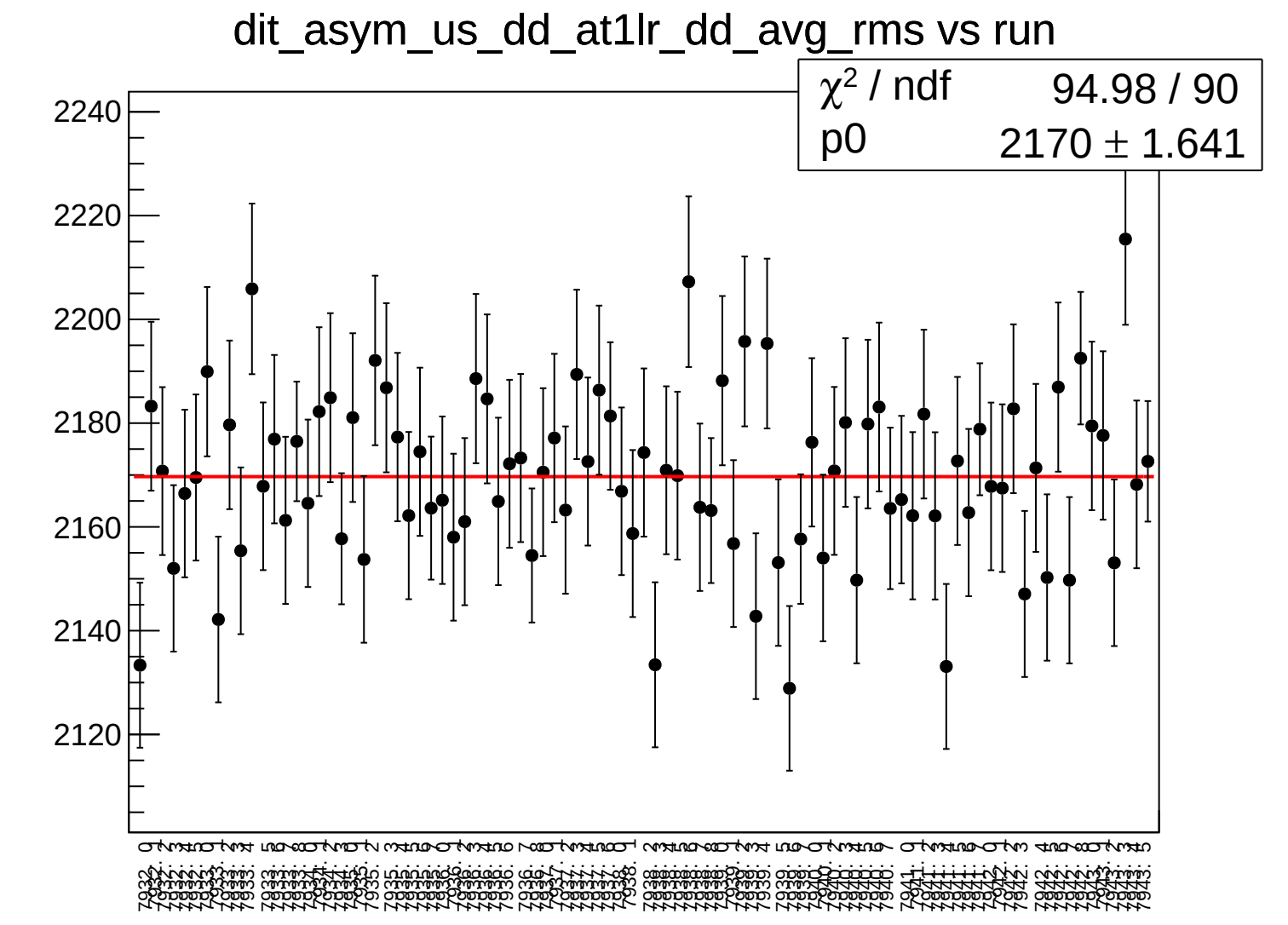

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.4 / 90
p0 292.4 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −77.56
Std Dev 0
2
1
0
−1
−2
−3

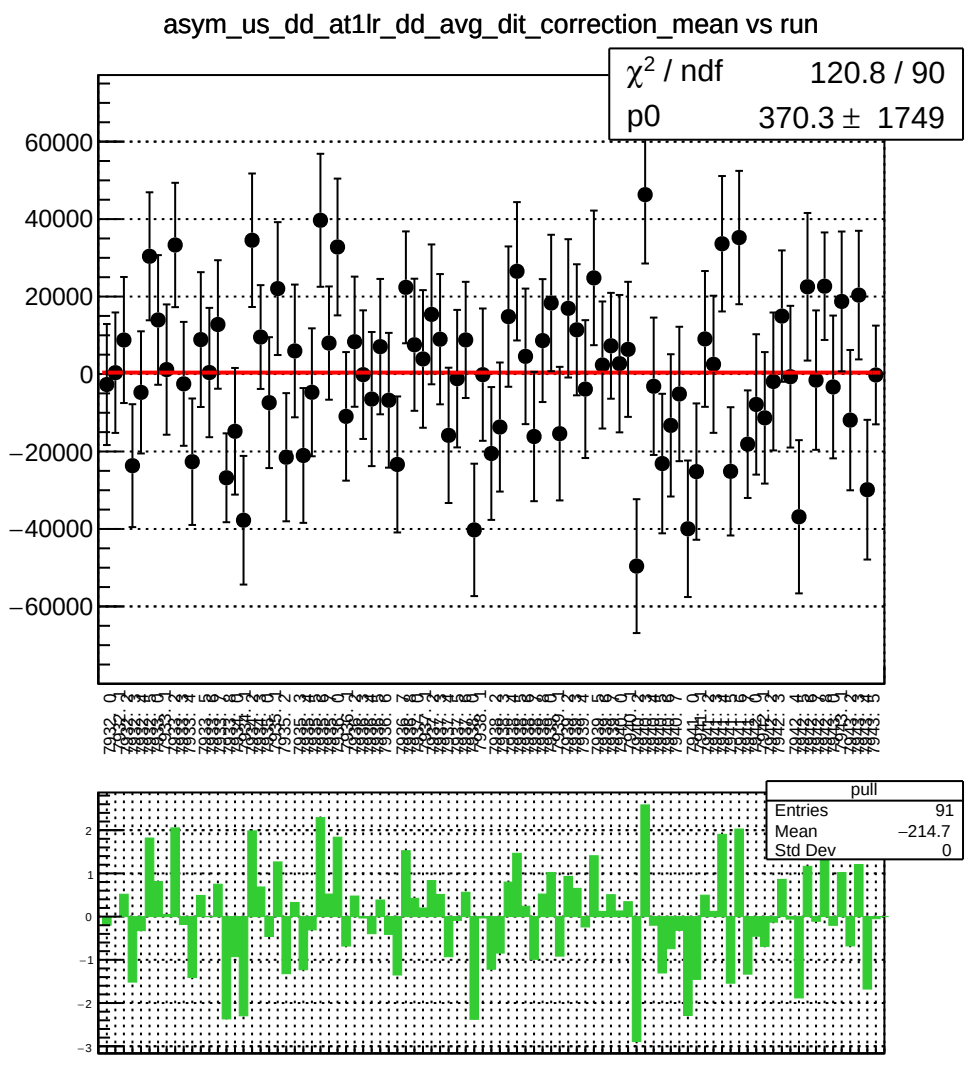

pull1D
Entries 91
Mean 0.00875
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

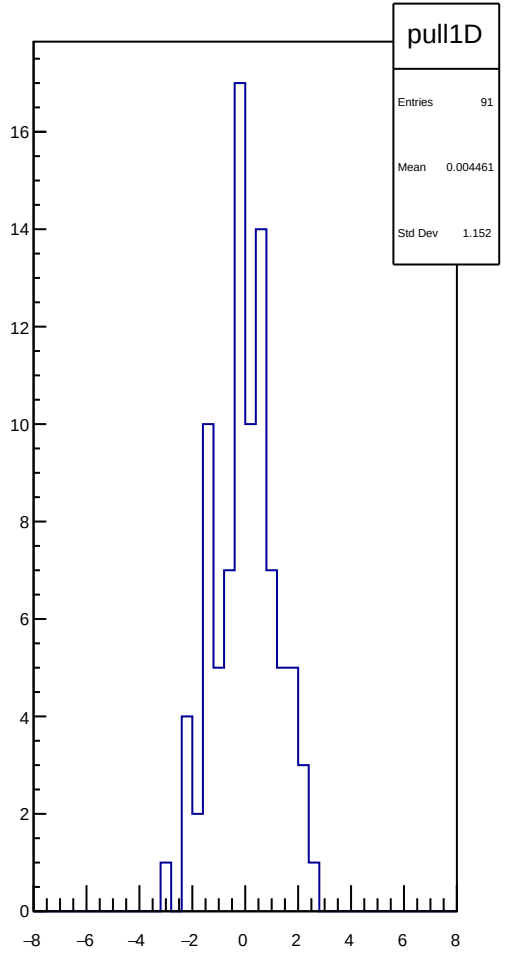

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5203 / 90
p0 1674 ± 1.268
2000
1900
1800
1700
1600
1500
1400

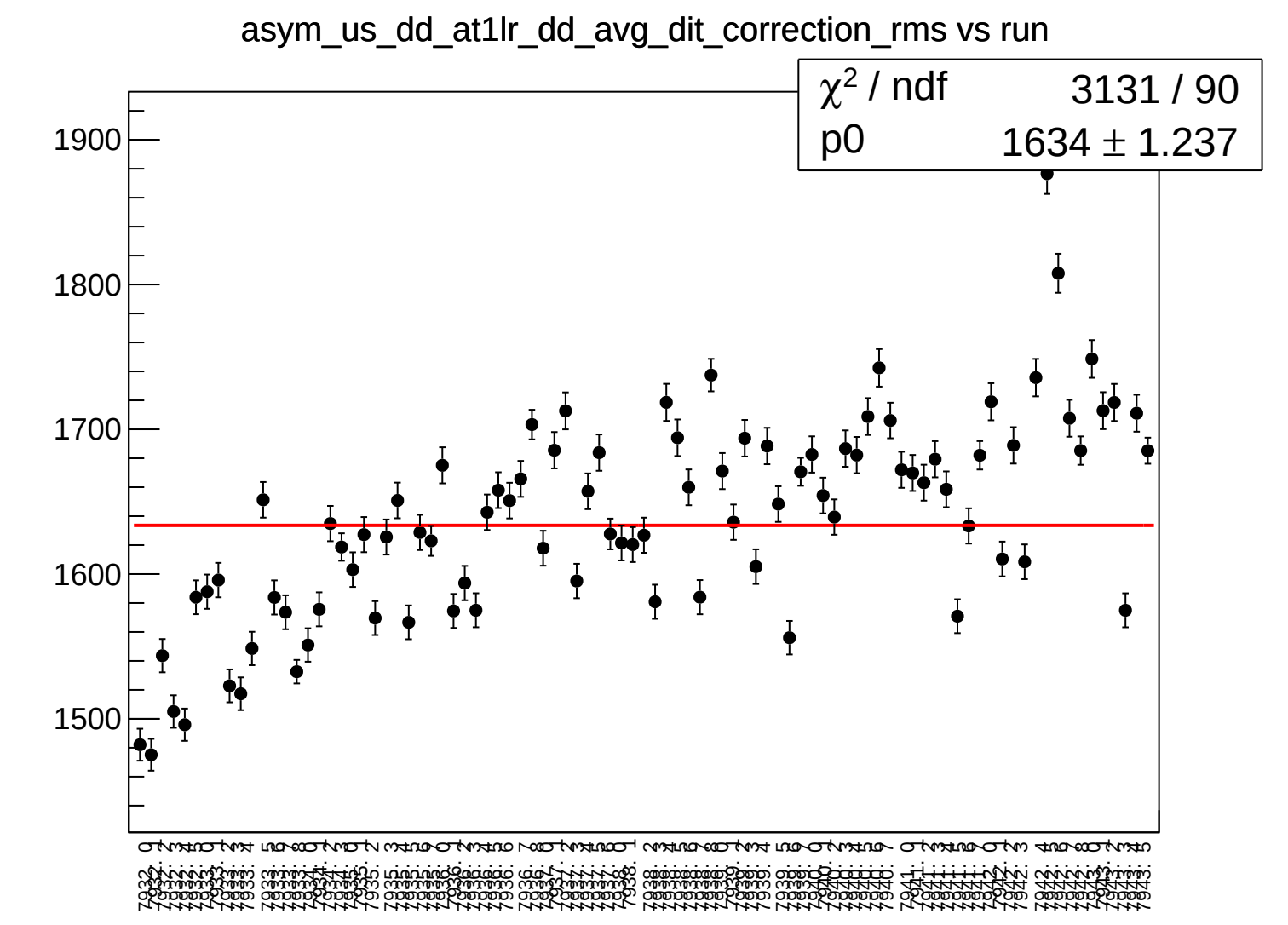

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.2 / 90
p0 1320 ± 2321
pull
Entries 91
Mean 227.5
Std Dev 0

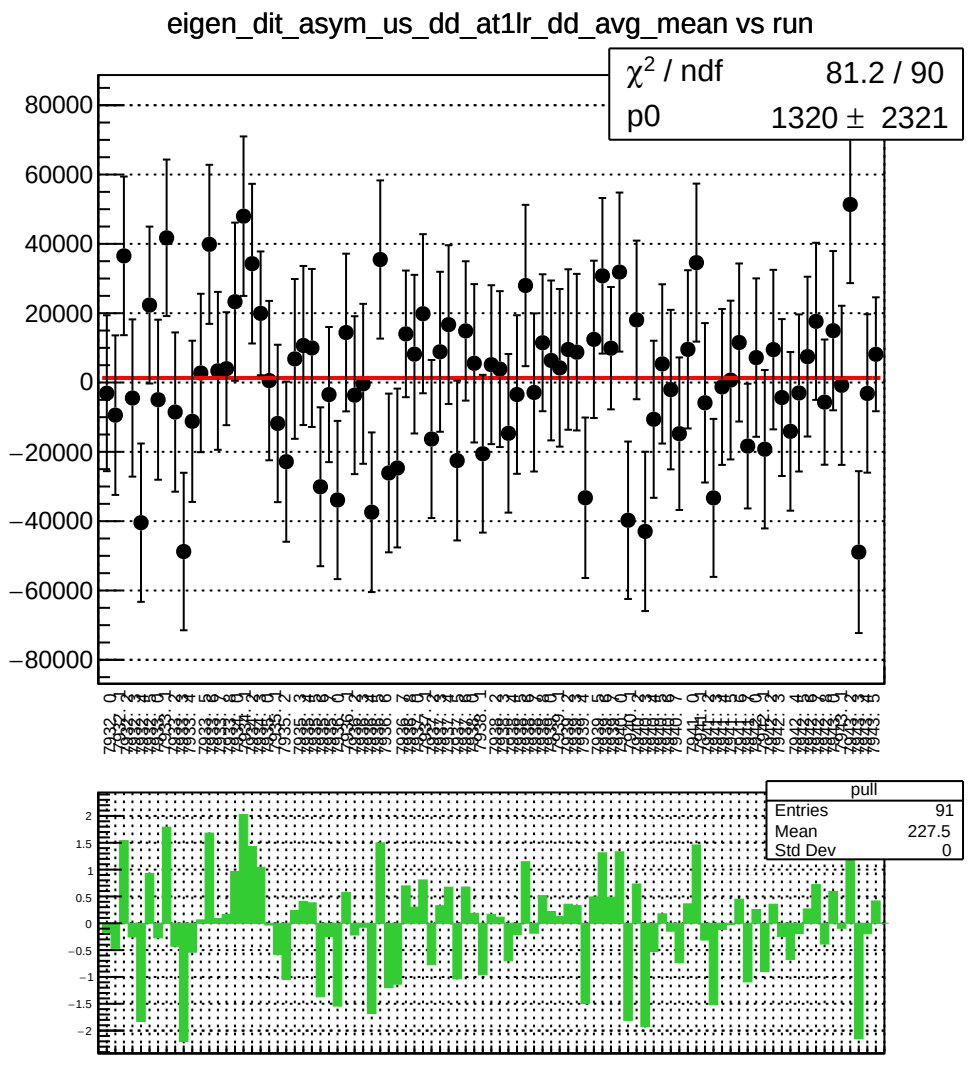

pull1D
Entries 91
Mean −0.006999
Std Dev 0.9446

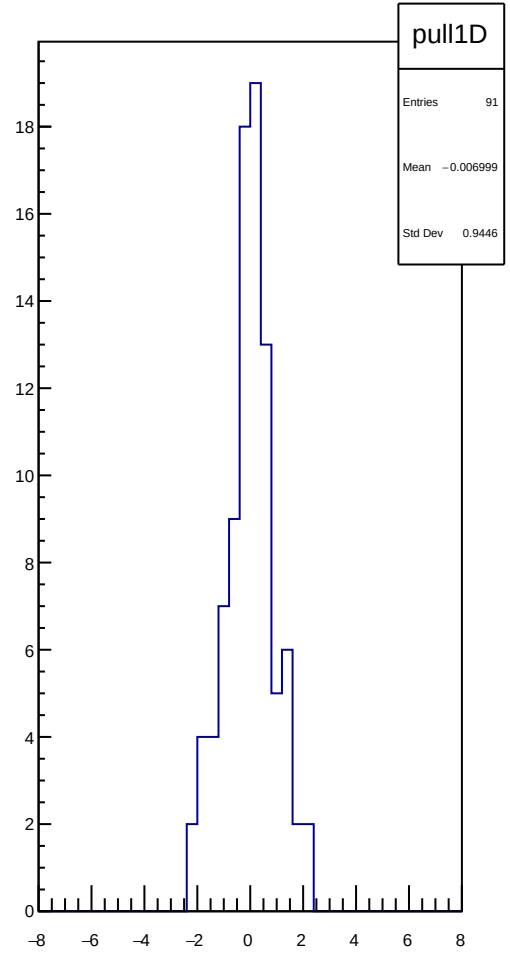

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 94.98 / 90
p0 2170 ± 1.641
2240
2220
2200
2180
2160
2140
2120

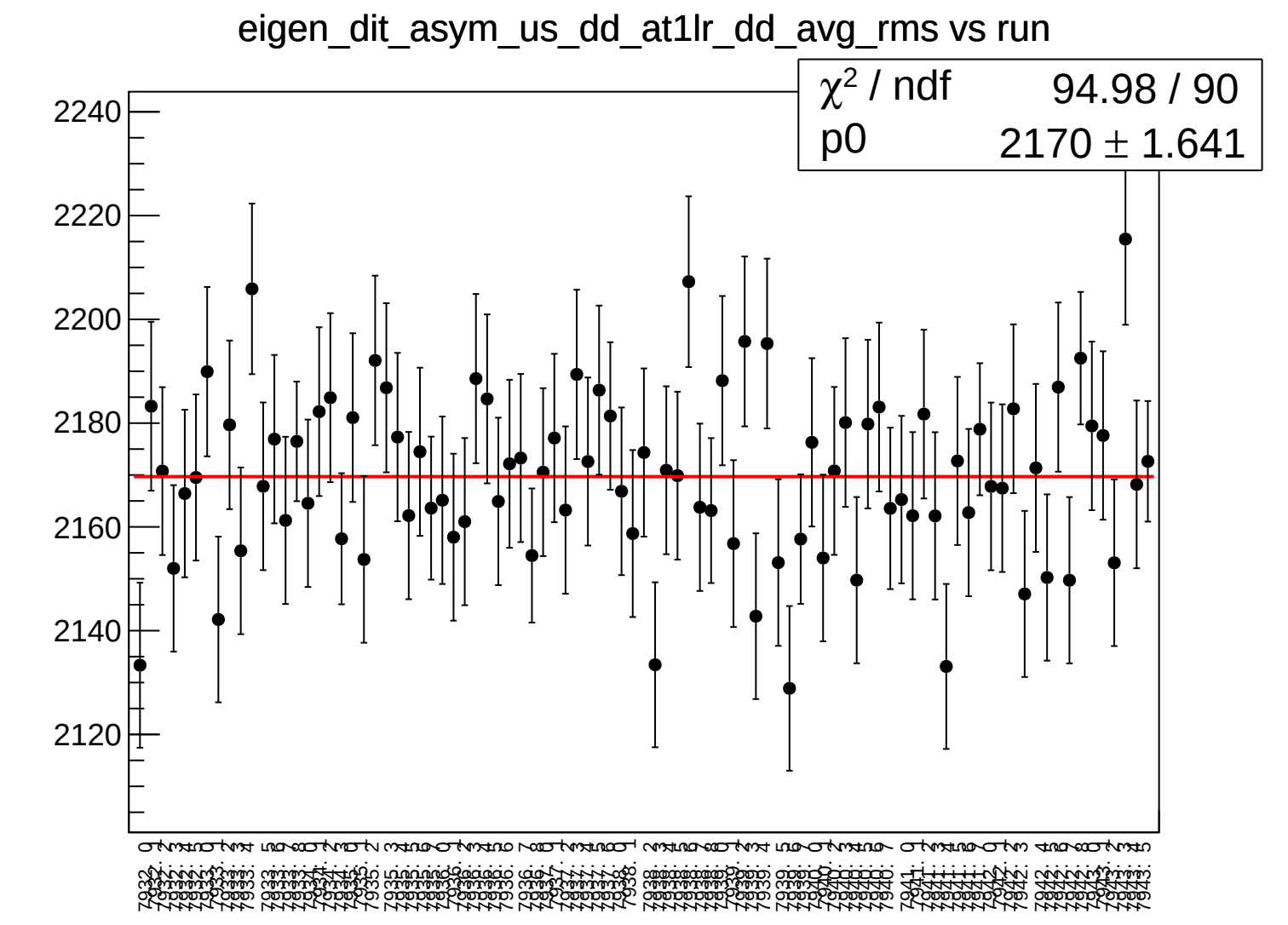

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 120.8 / 90
p0 370.3 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −214.7
Std Dev 0
2
1
0
−1
−2
−3

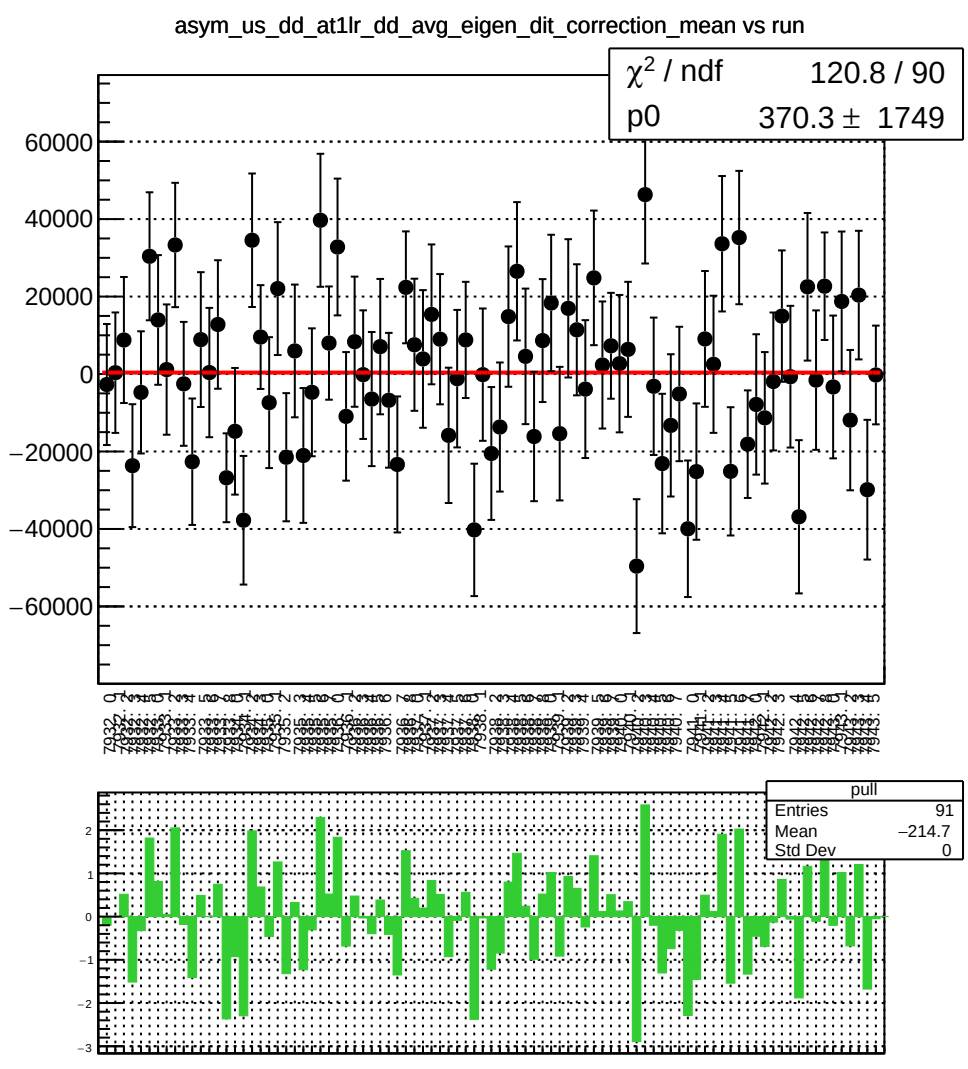

pull1D
Entries 91
Mean 0.004461
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

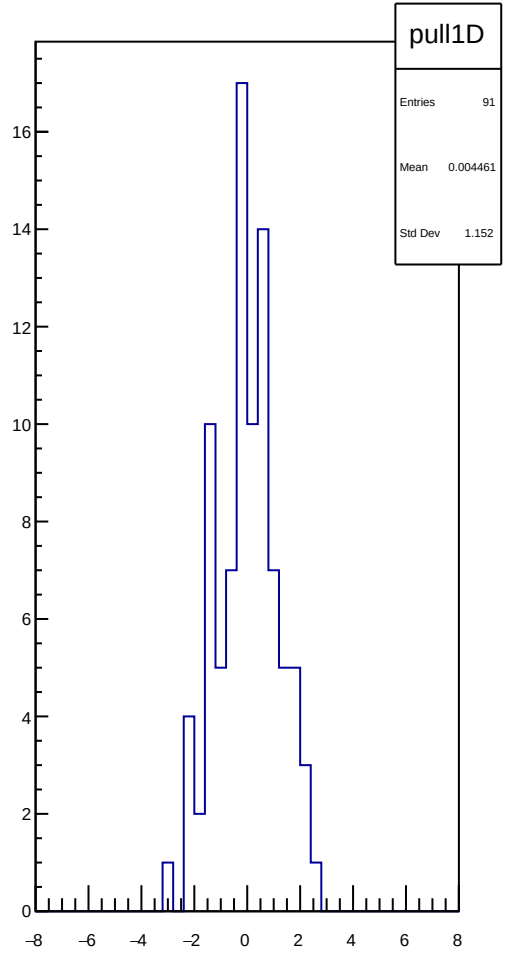

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3131 / 90
p0 1634 ± 1.237
1900
1800
1700
1600
1500

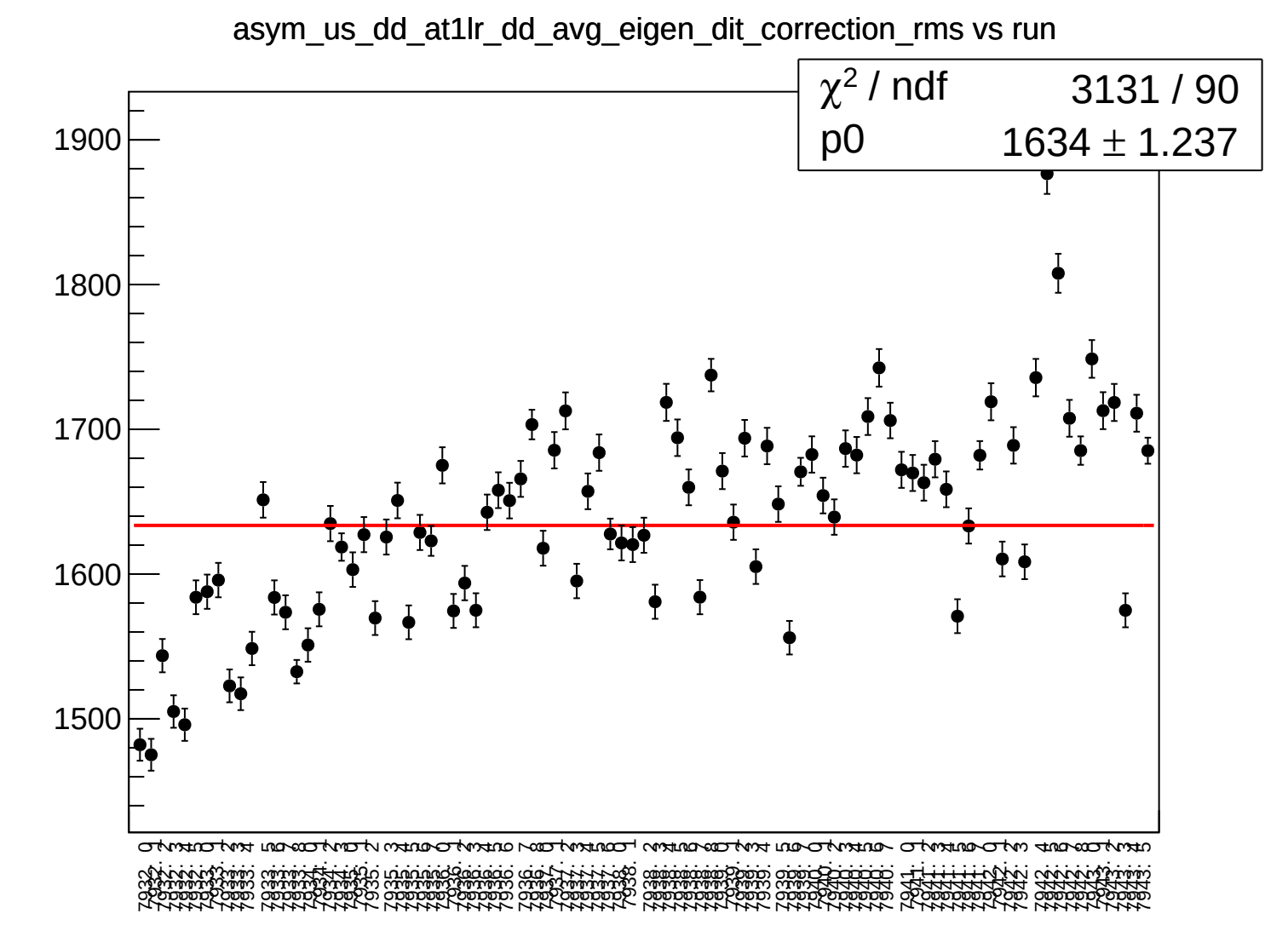

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.2 / 90
p0 1320 ± 2321
pull
Entries 91
Mean 227.5
Std Dev 0

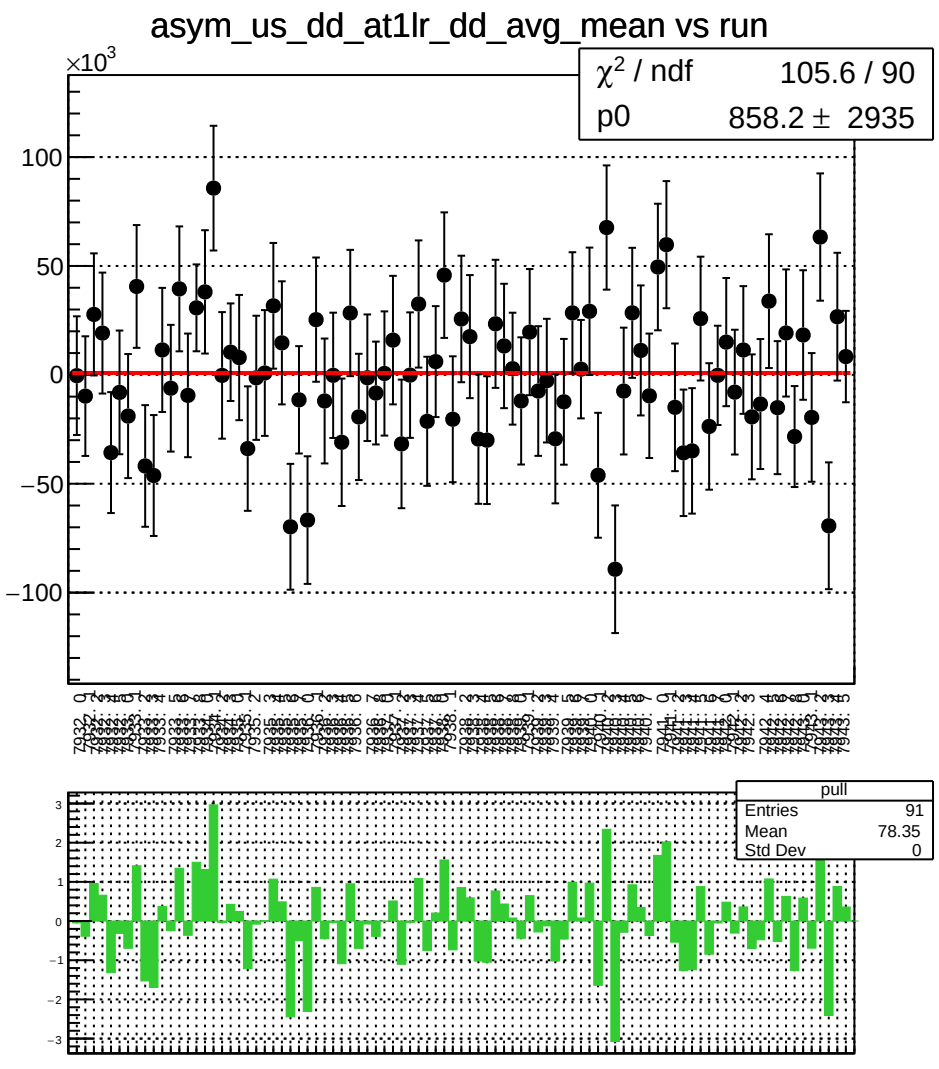

pull1D
Entries 91
Mean −0.006999
Std Dev 0.9446

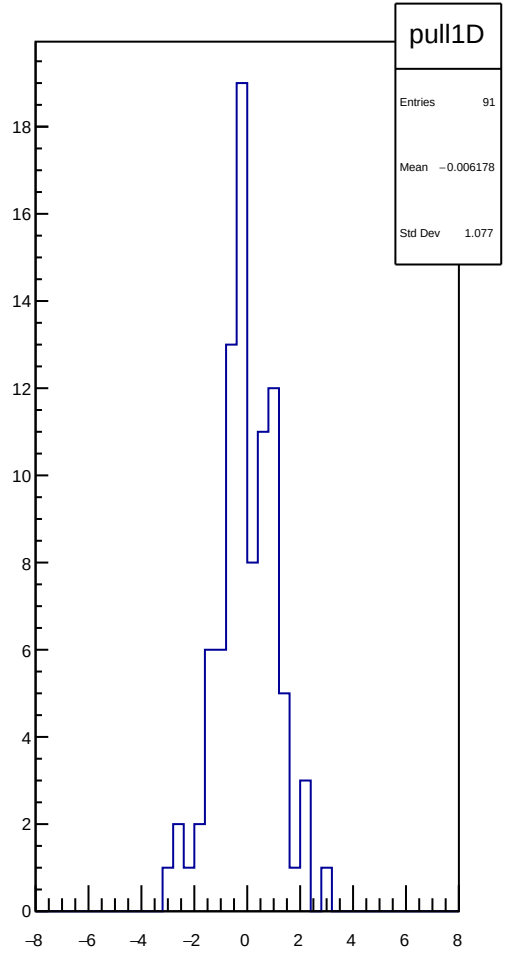

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 94.98 / 90
p0 2170 ± 1.641
2240
2220
2200
2180
2160
2140
2120

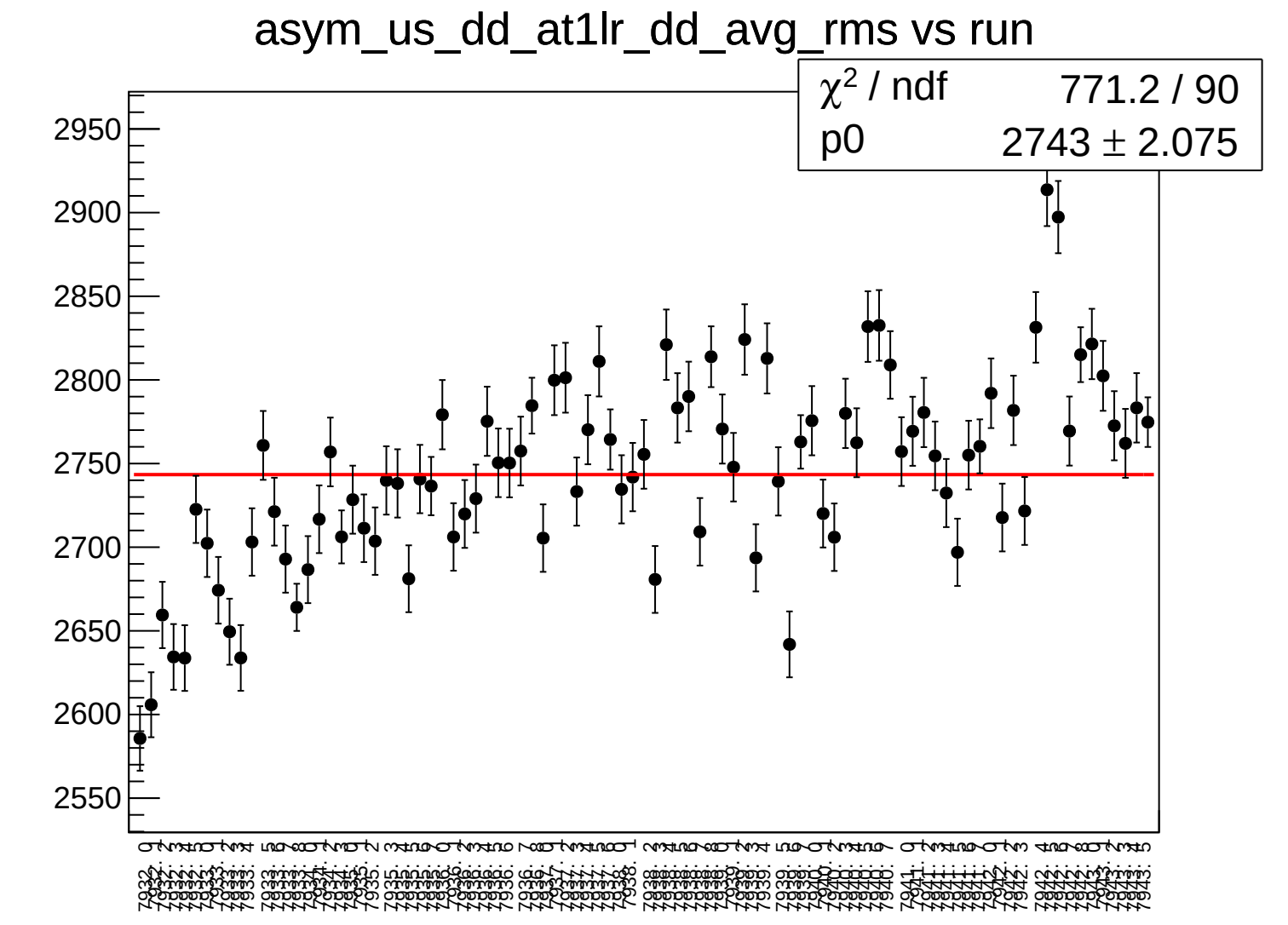

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 120.8 / 90
p0 370.3 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −214.7
Std Dev 0
2
1
0
−1
−2
−3

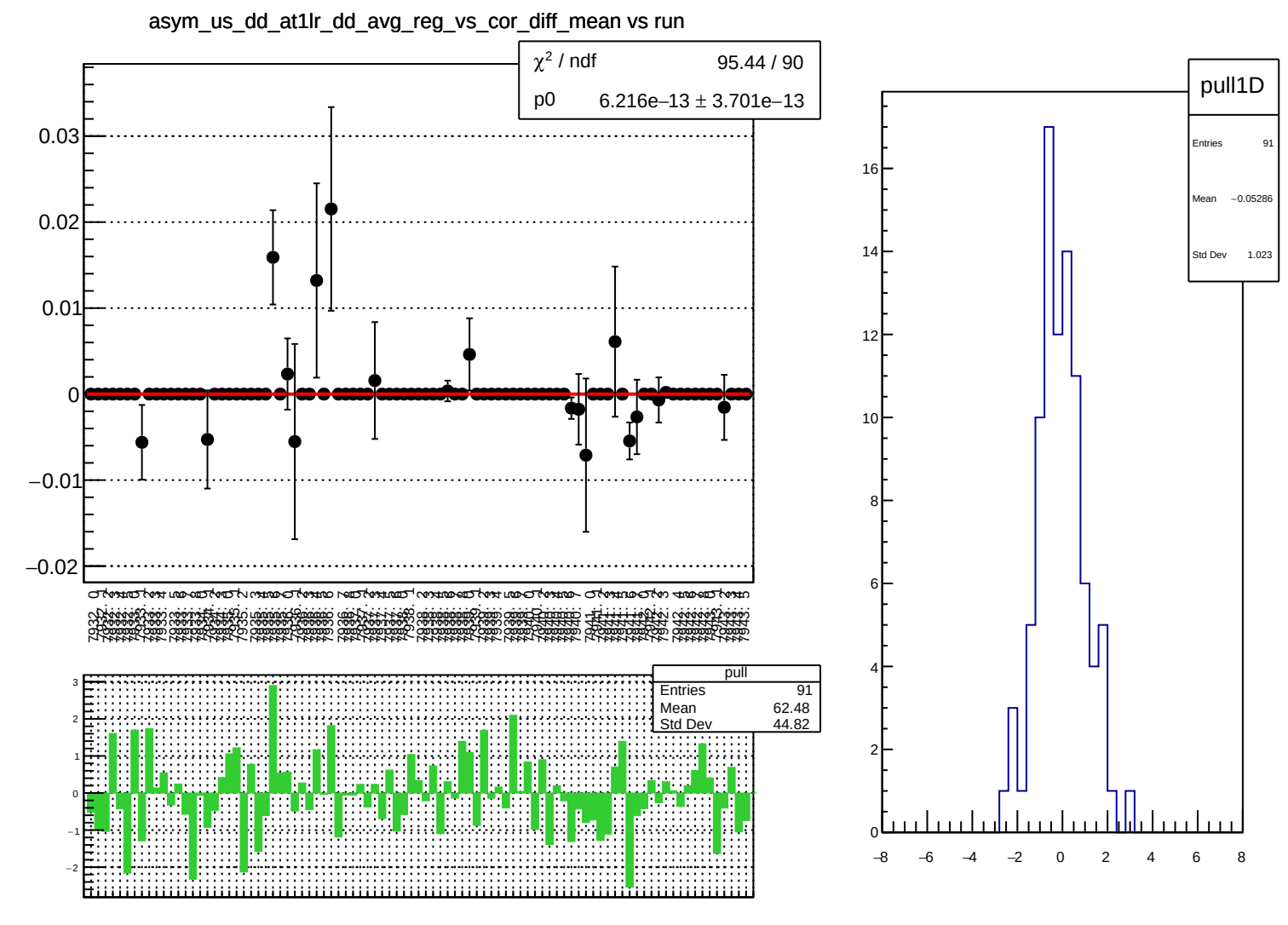

pull1D
Entries 91
Mean 0.004461
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

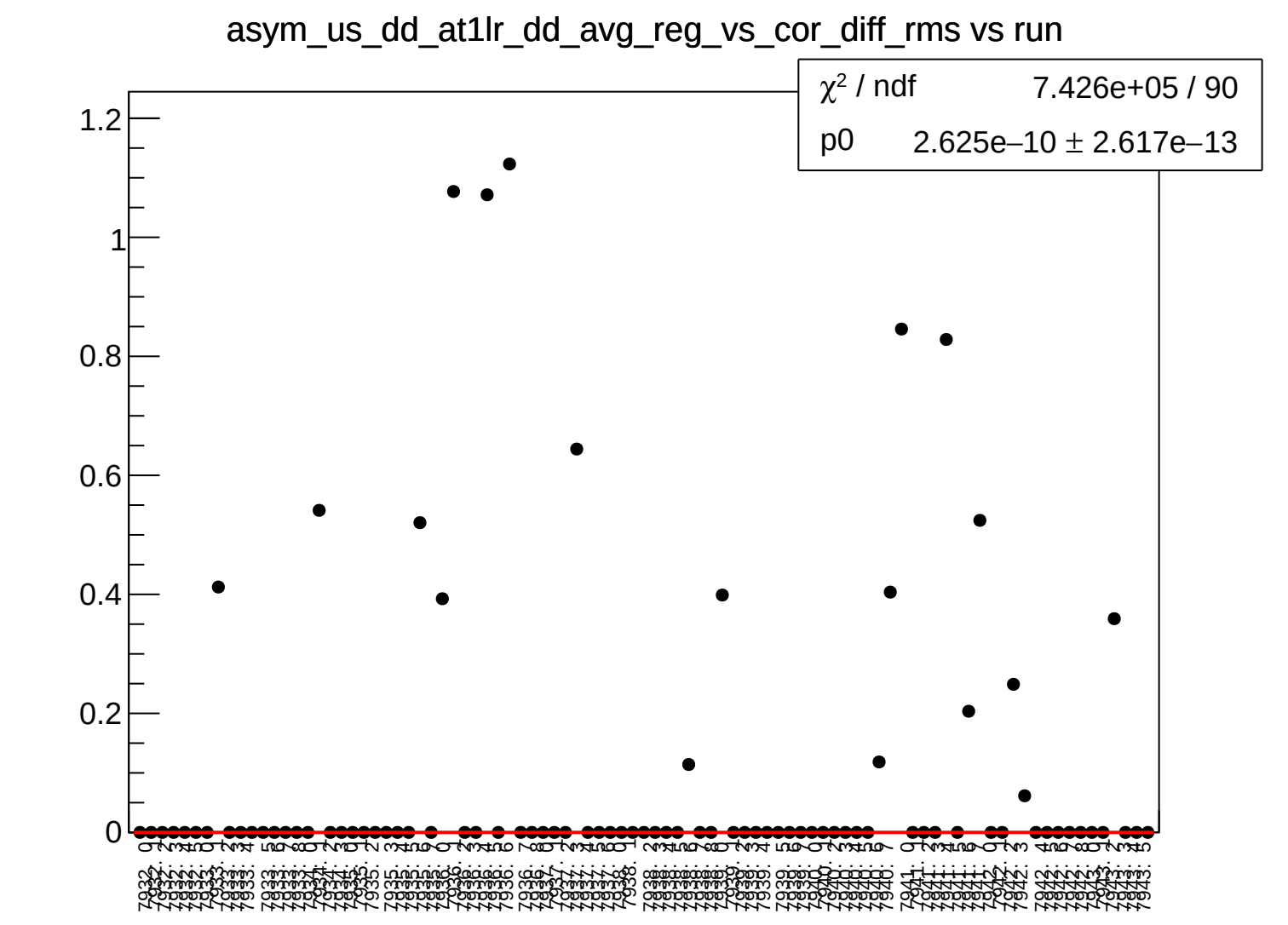

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3131 / 90
p0 1634 ± 1.237
1900
1800
1700
1600
1500

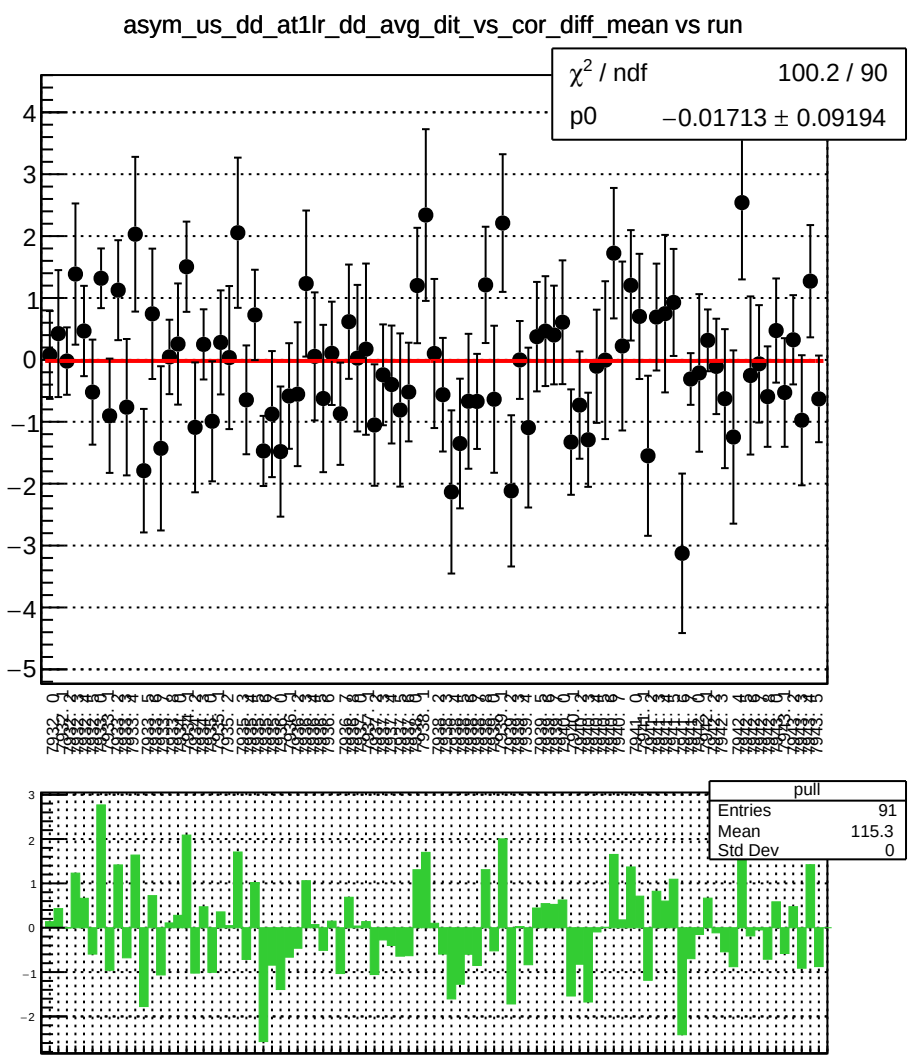

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 105.6 / 90
p0 858.2 ± 2935
100
50
0
−50
−100
pull
Entries 91
Mean 78.35
Std Dev 0
3
2
1
0
−1
−2
−3

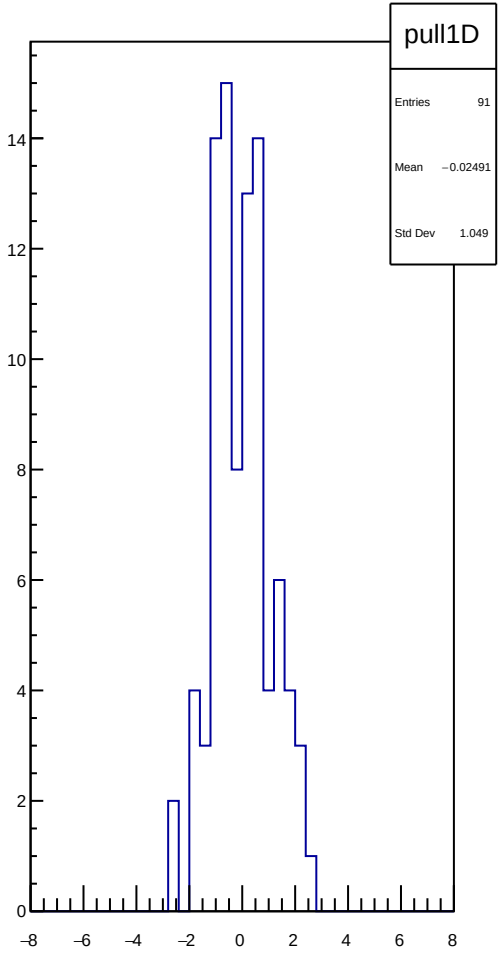

pull1D
Entries 91
Mean −0.006178
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

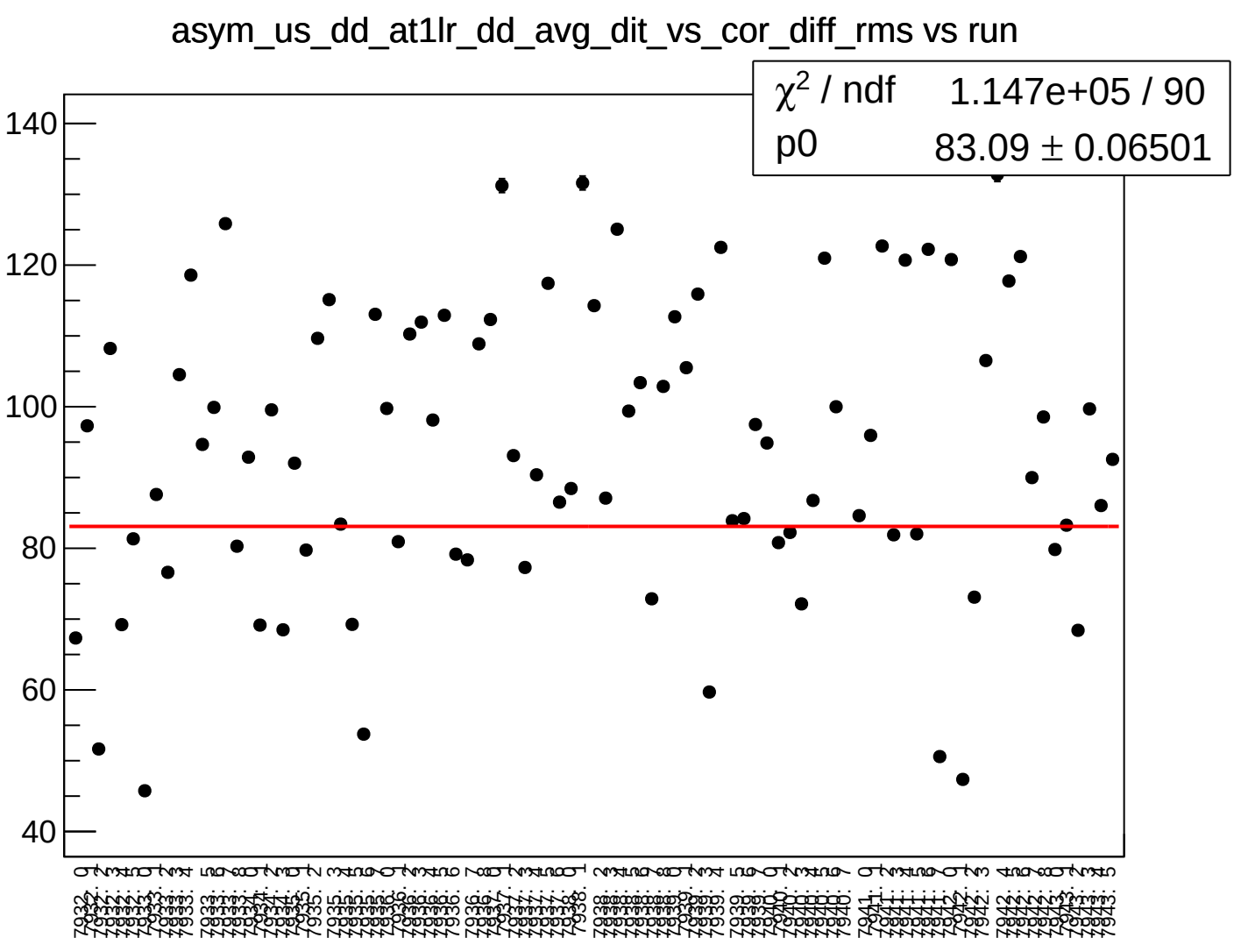

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 771.2 / 90
p0 2743 ± 2.075
2950
2900
2850
2800
2750
2700
2650
2600
2550

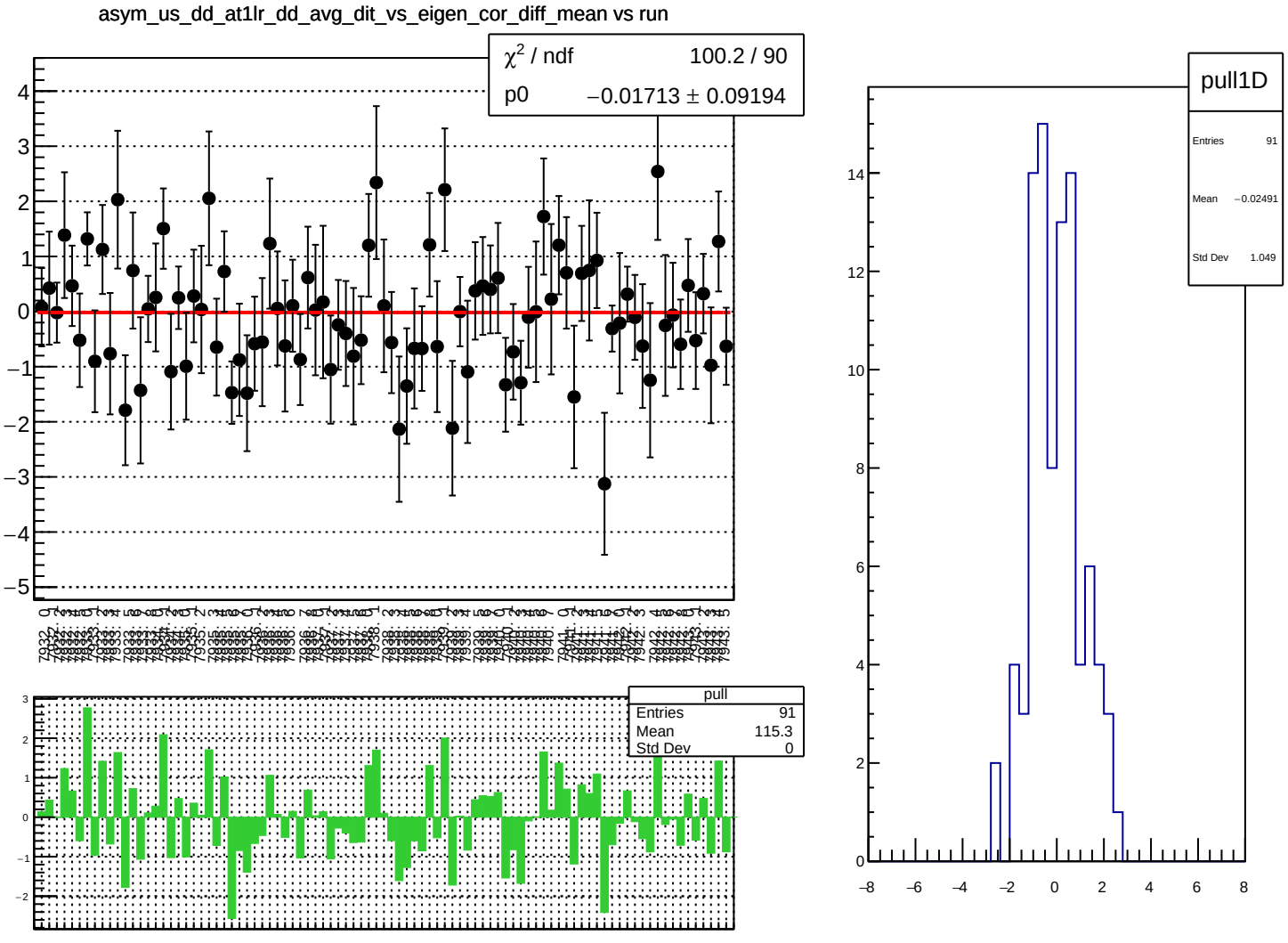

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.44 / 90
p0 6.216e−13 ± 3.701e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 62.48
Std Dev 44.82
pull1D
Entries 91
Mean −0.05286
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

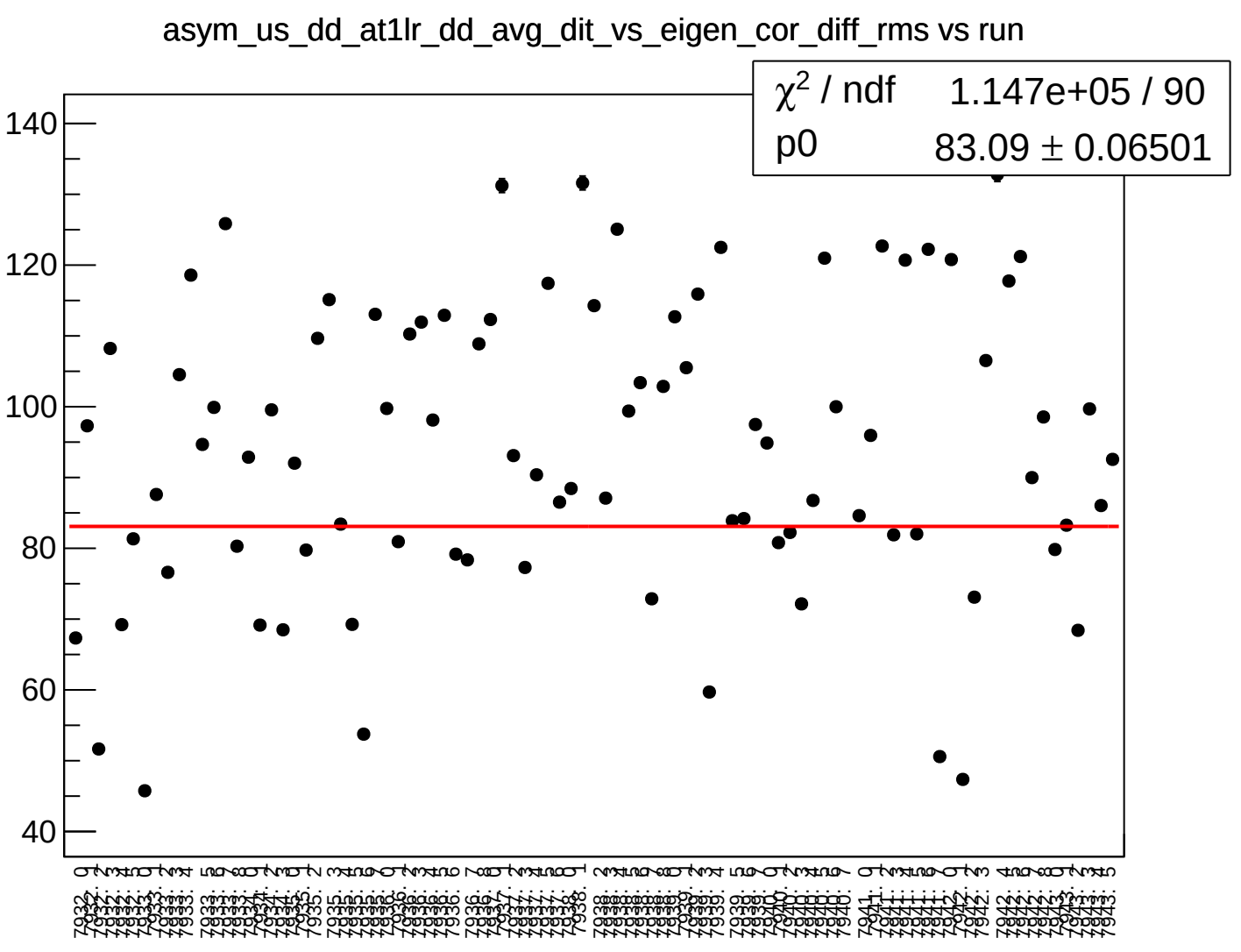

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.426e+05 / 90
p0 2.625e−10 ± 2.617e−13
1.2
1
0.8
0.6
0.4
0.2
0

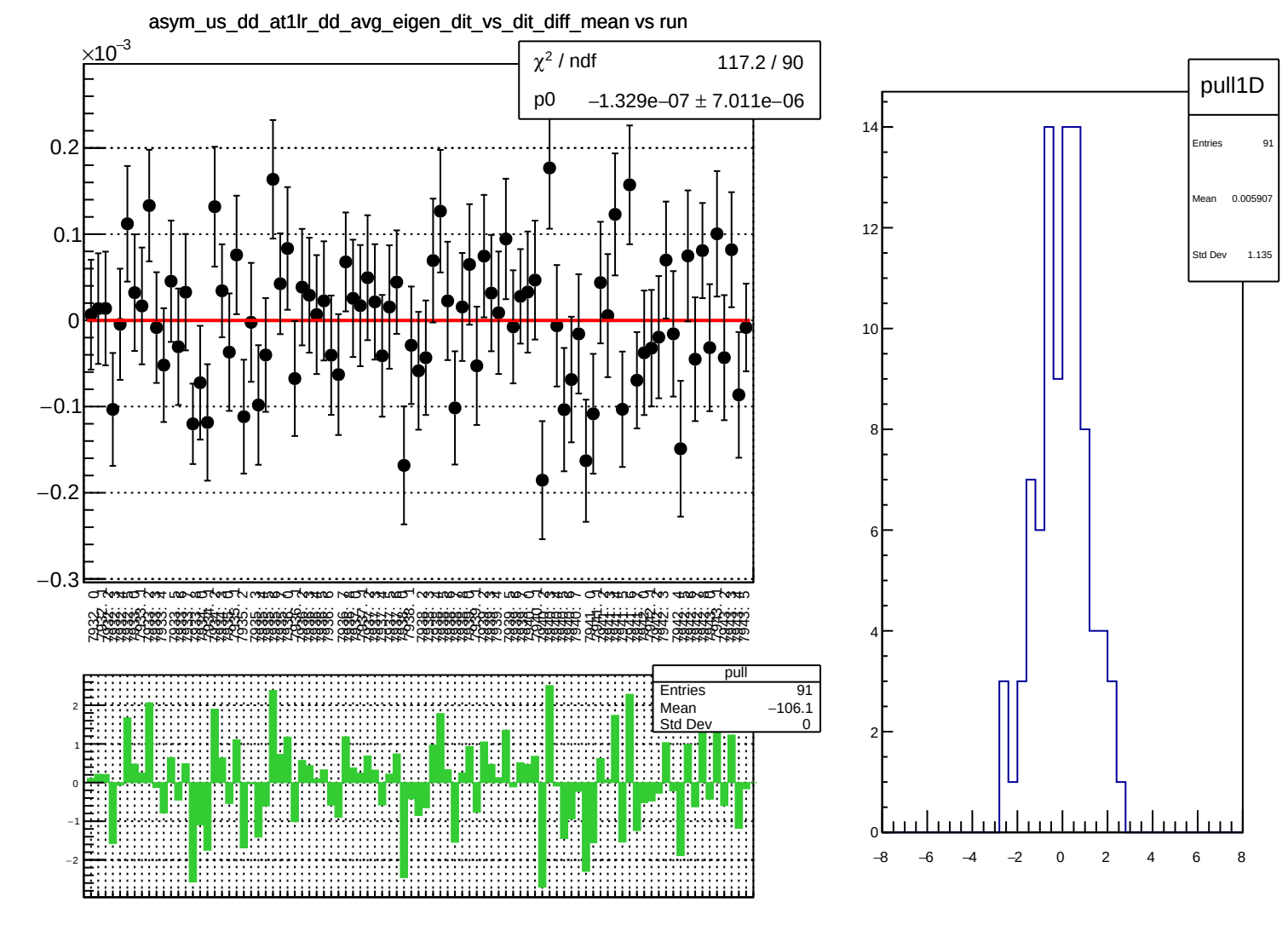

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 90
p0 −0.01713 ± 0.09194
pull
Entries 91
Mean 115.3
Std Dev 0

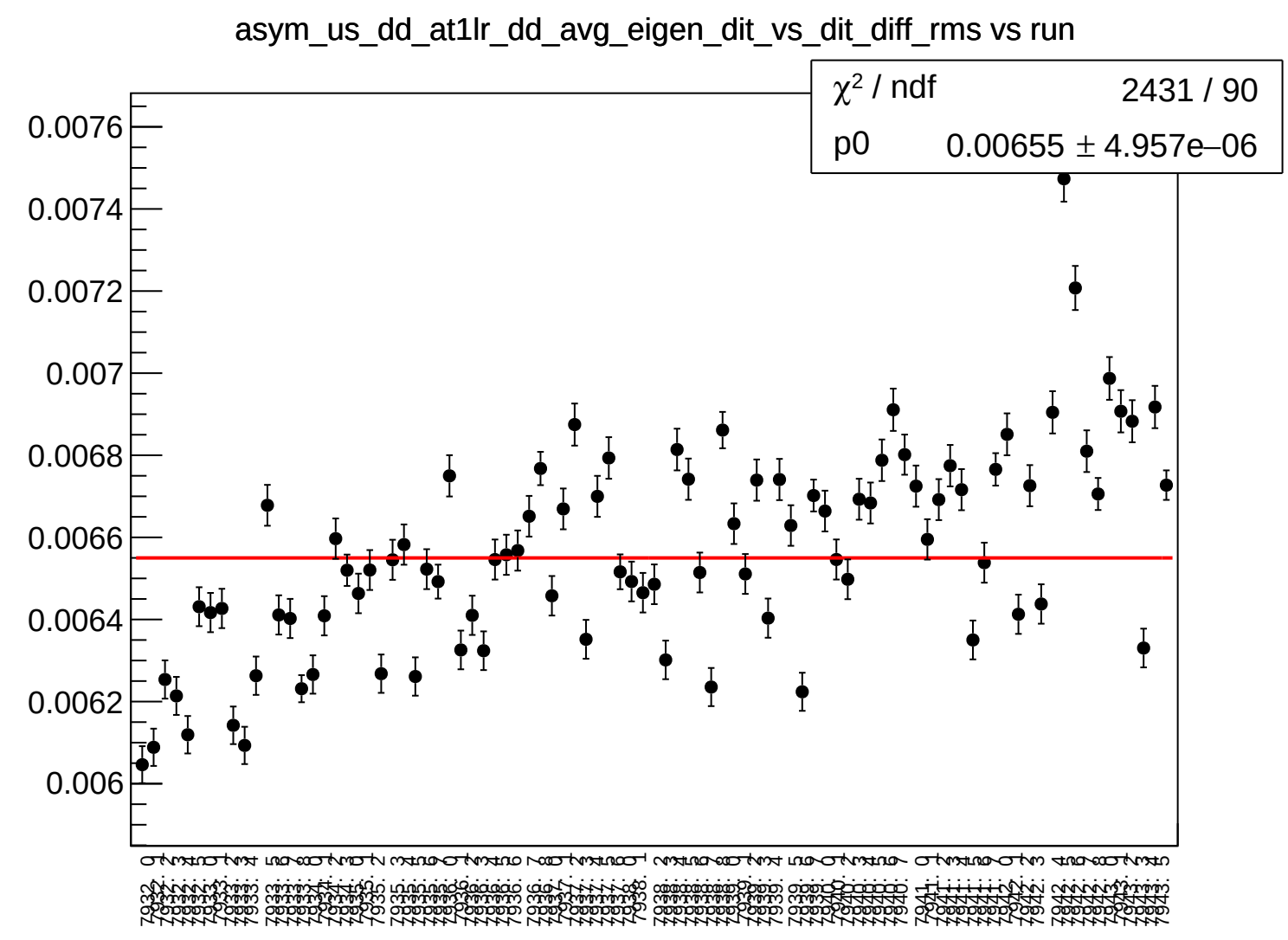

pull1D
Entries 91
Mean −0.02491
Std Dev 1.049

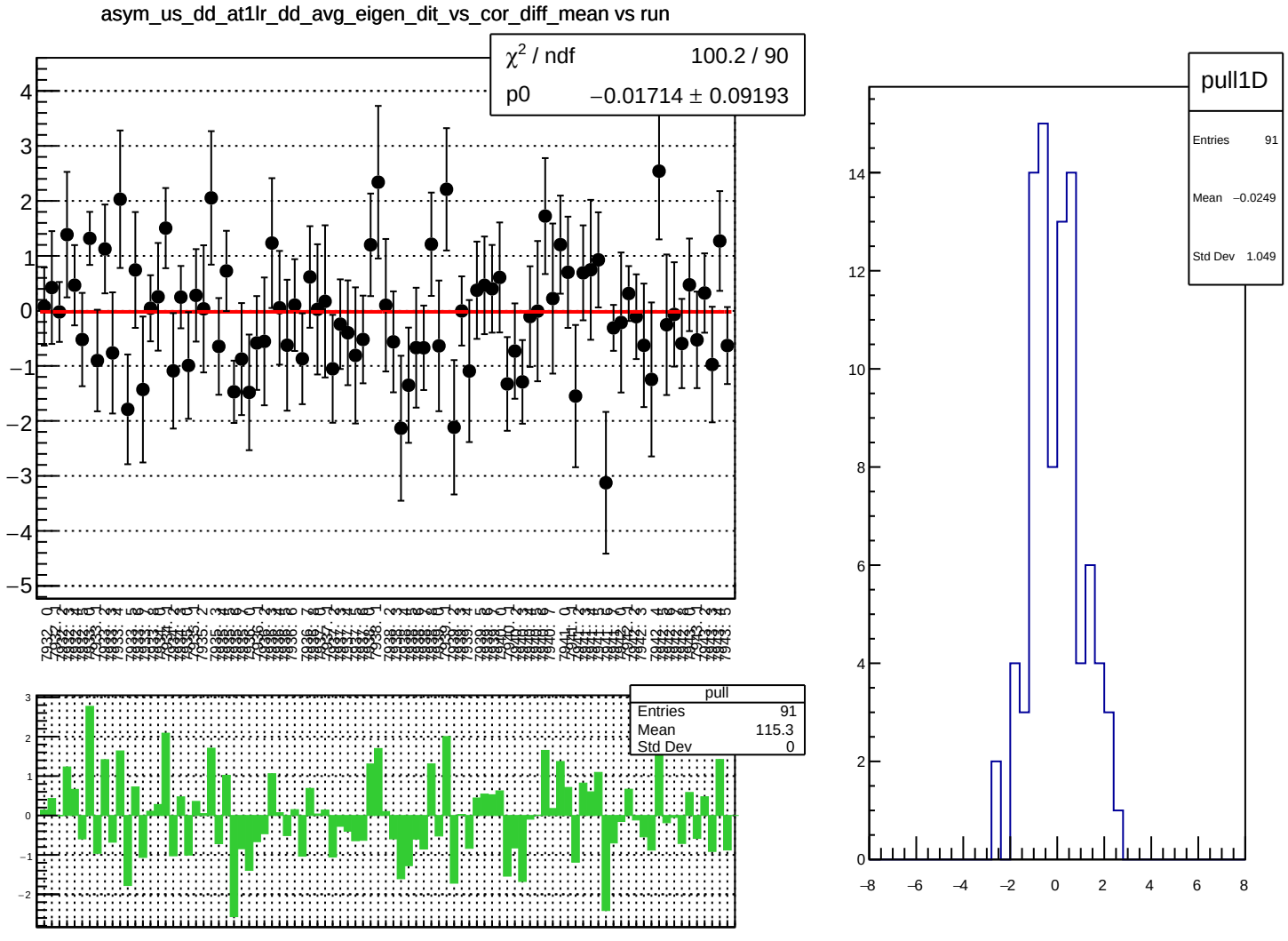

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.147e+05 / 90
p0 83.09 ± 0.06501
140
120
100
80
60
40

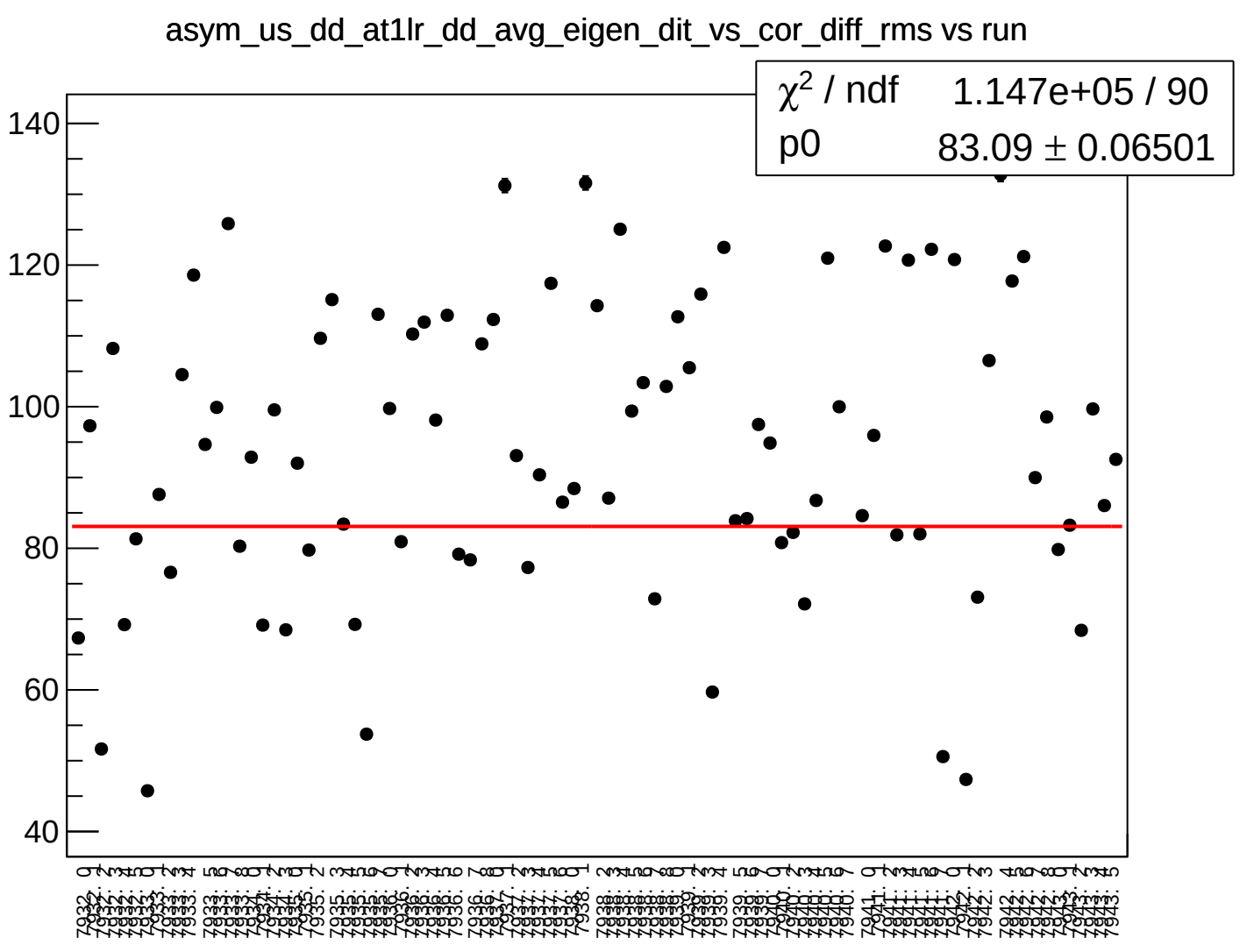

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 90
p0 −0.01713 ± 0.09194
pull
Entries 91
Mean 115.3
Std Dev 0
pull1D
Entries 91
Mean −0.02491
Std Dev 1.049

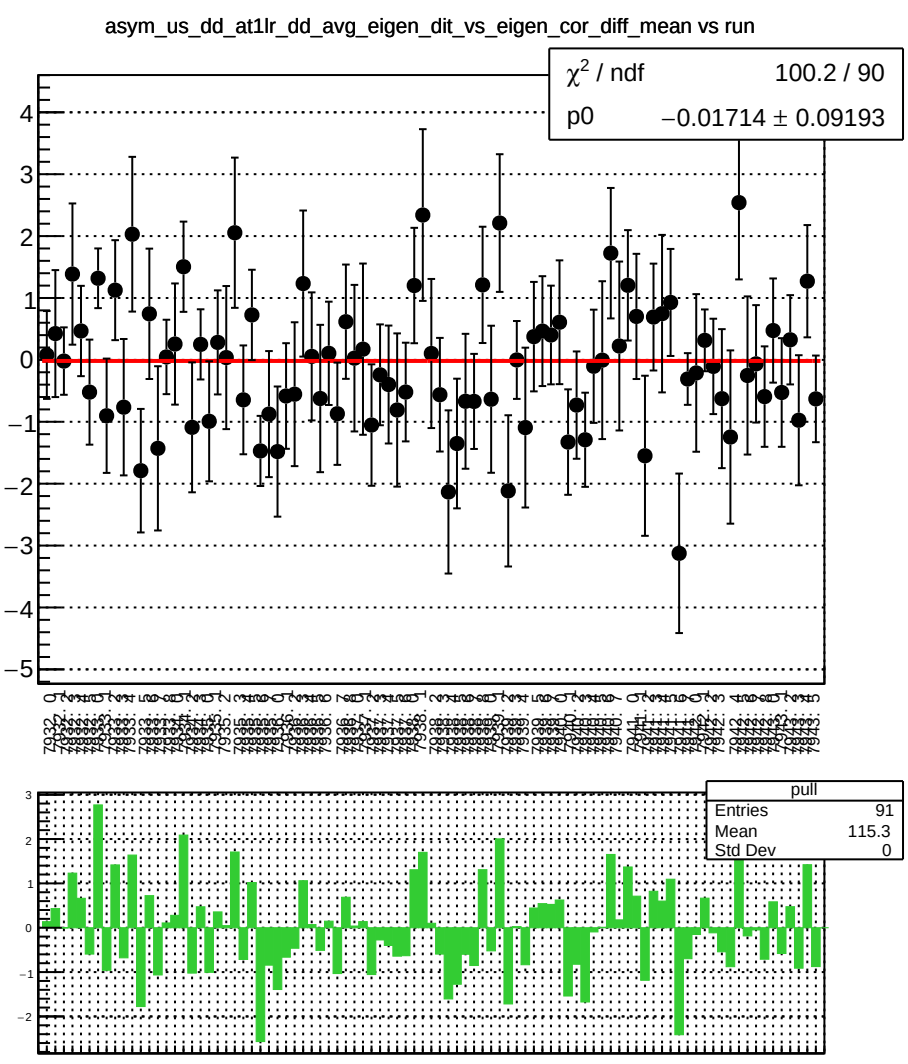

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.147e+05 / 90
p0 83.09 ± 0.06501
140
120
100
80
60
40

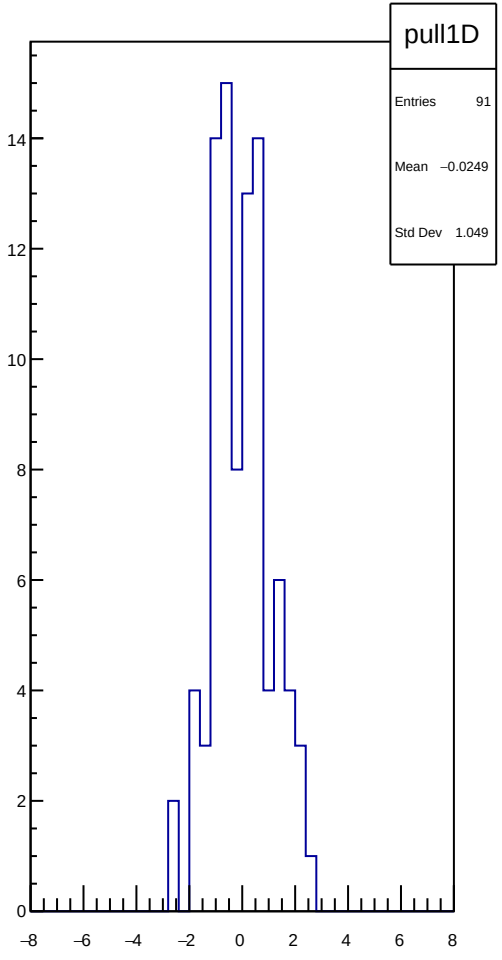

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.2 / 90
p0 −1.329e−07 ± 7.011e−06
pull
Entries 91
Mean −106.1
Std Dev 0
pull1D
Entries 91
Mean 0.005907
Std Dev 1.135

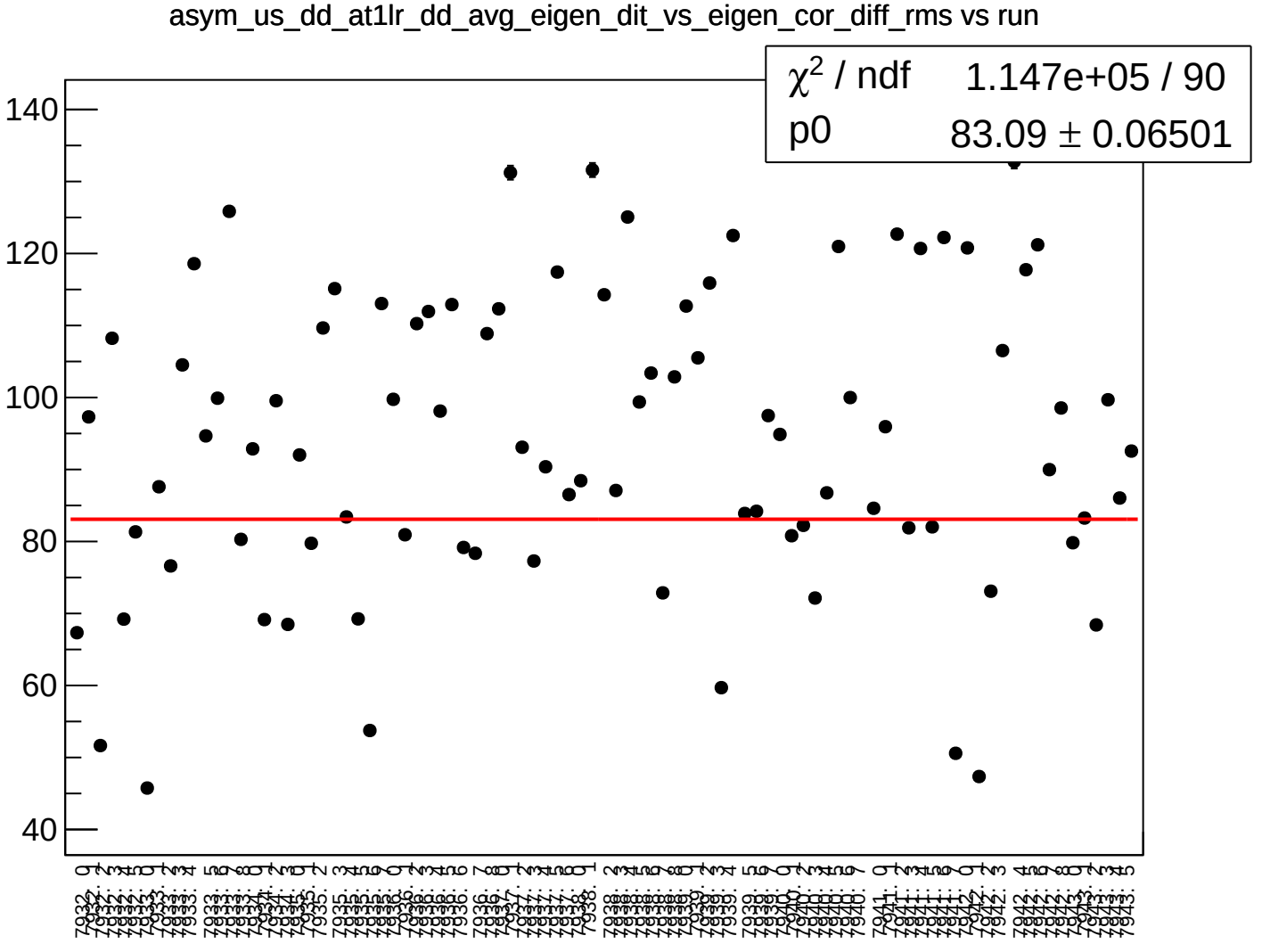

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2431 / 90
p0 0.00655 ± 4.957e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

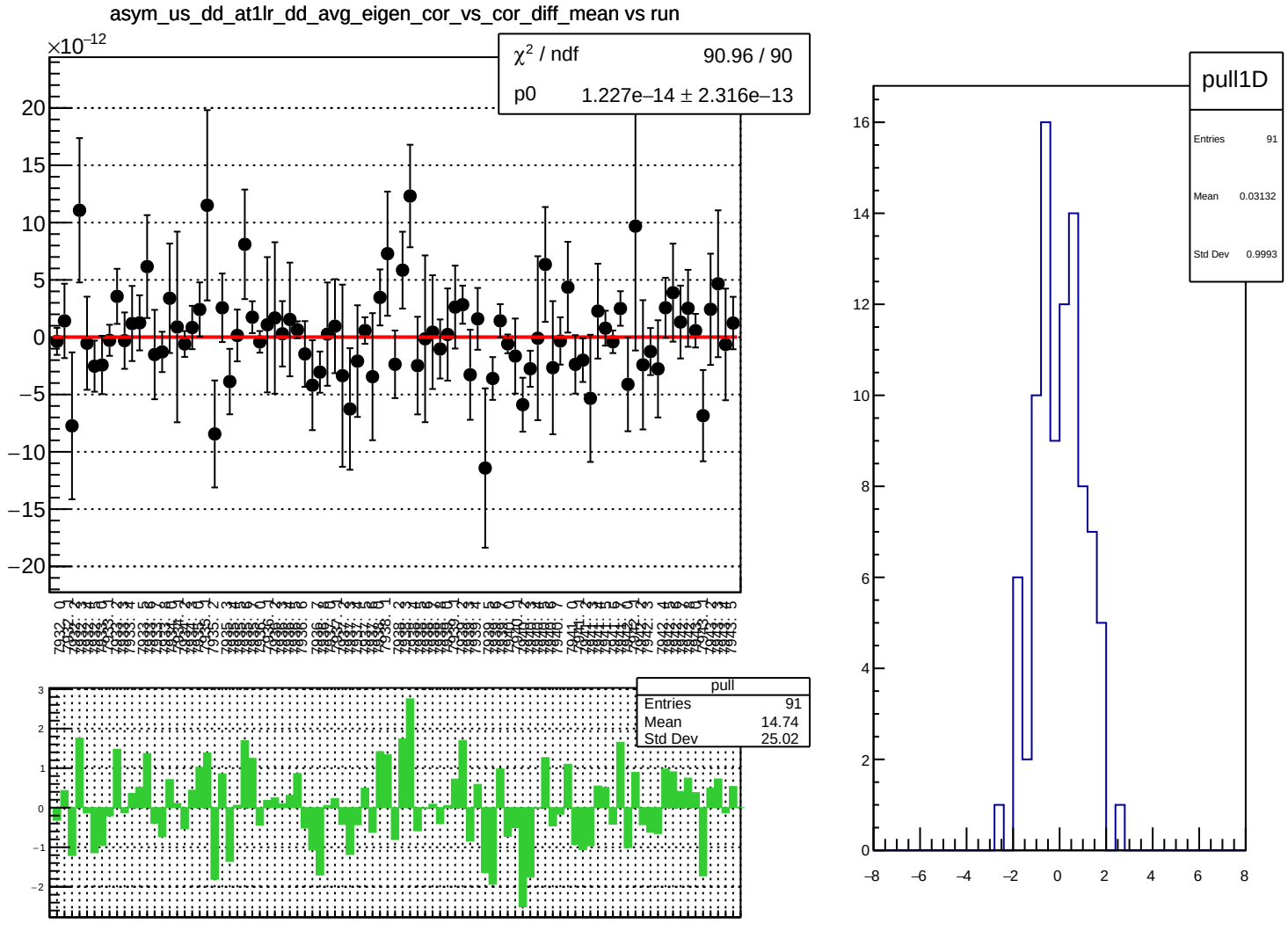

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 90
p0 −0.01714 ± 0.09193
pull
Entries 91
Mean 115.3
Std Dev 0
pull1D
Entries 91
Mean −0.0249
Std Dev 1.049

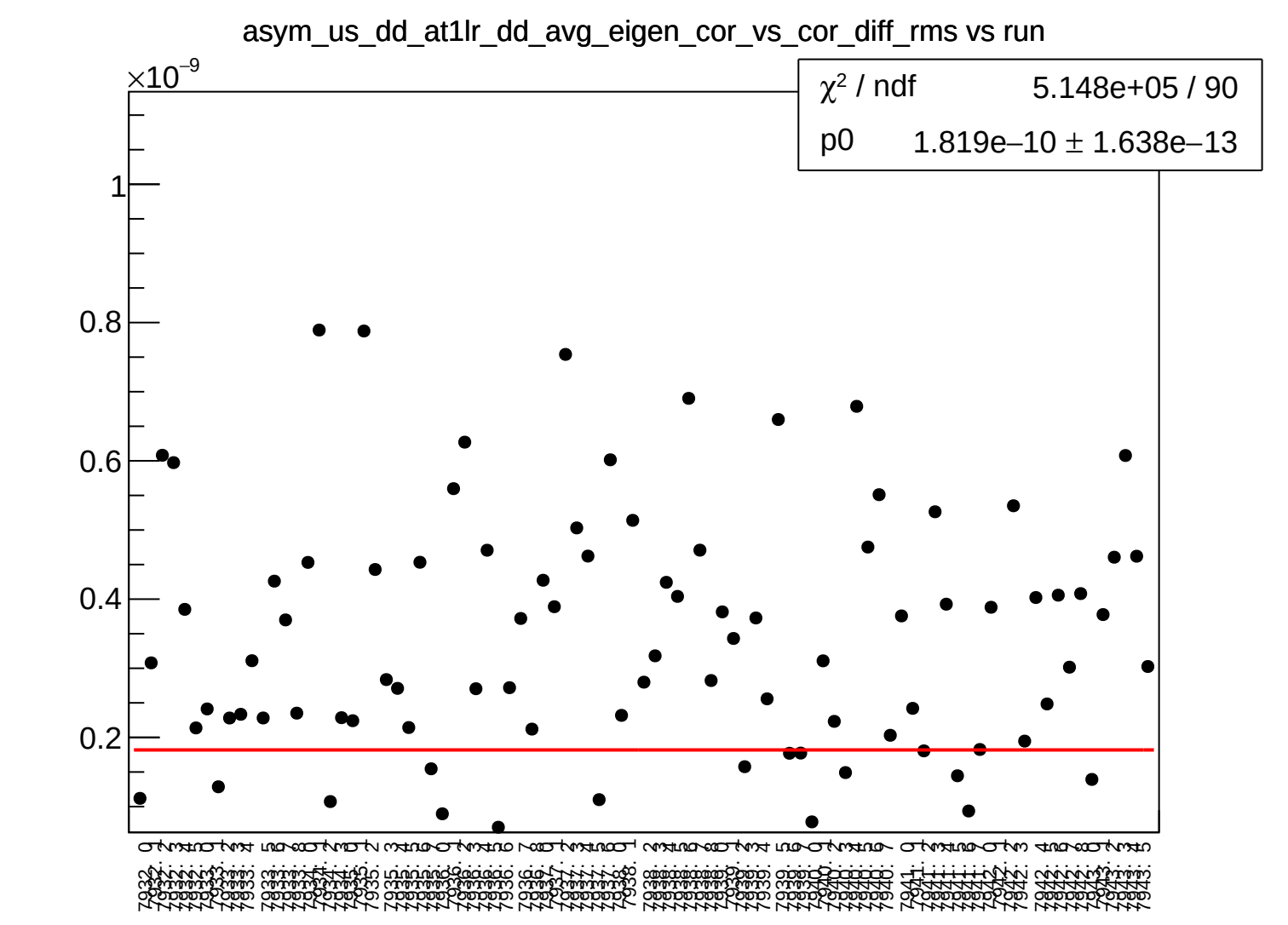

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.147e+05 / 90
p0 83.09 ± 0.06501
140
120
100
80
60
40

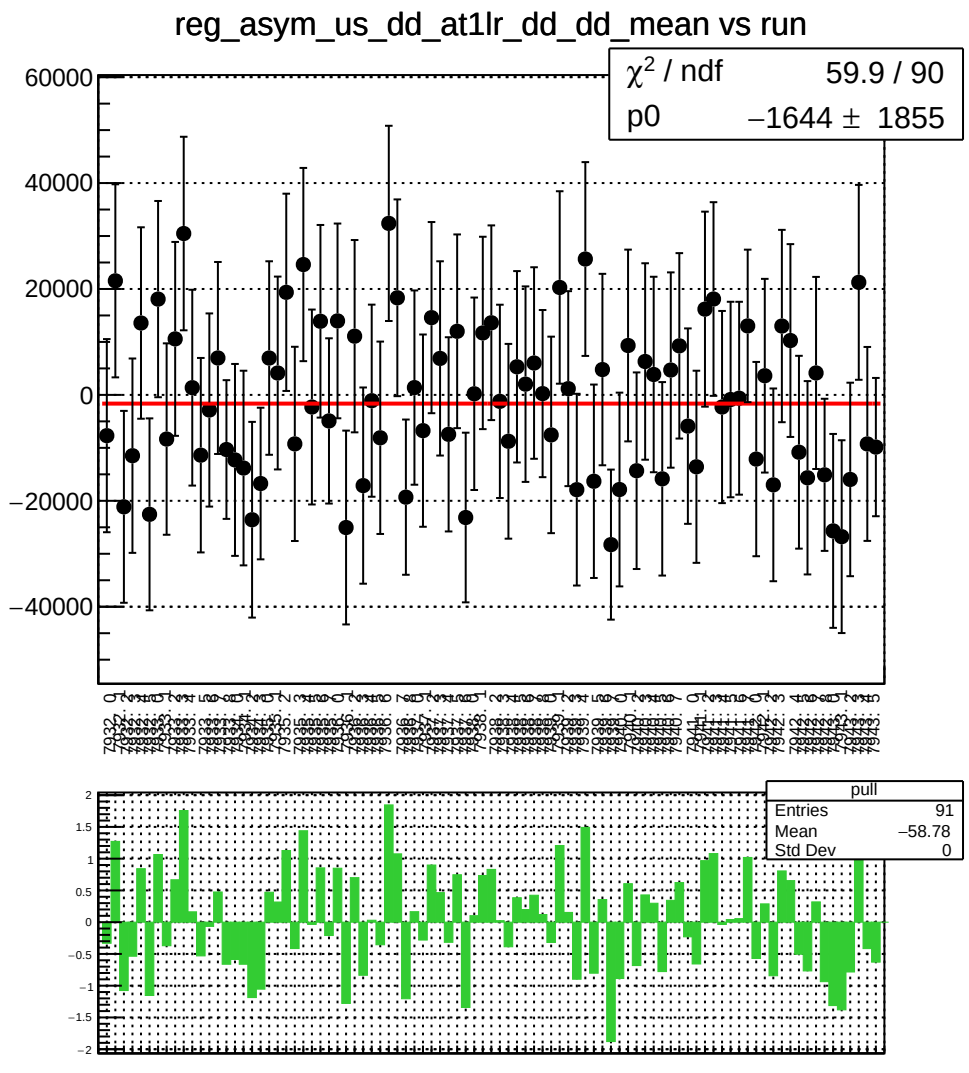

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 90
p0 −0.01714 ± 0.09193
pull
Entries 91
Mean 115.3
Std Dev 0

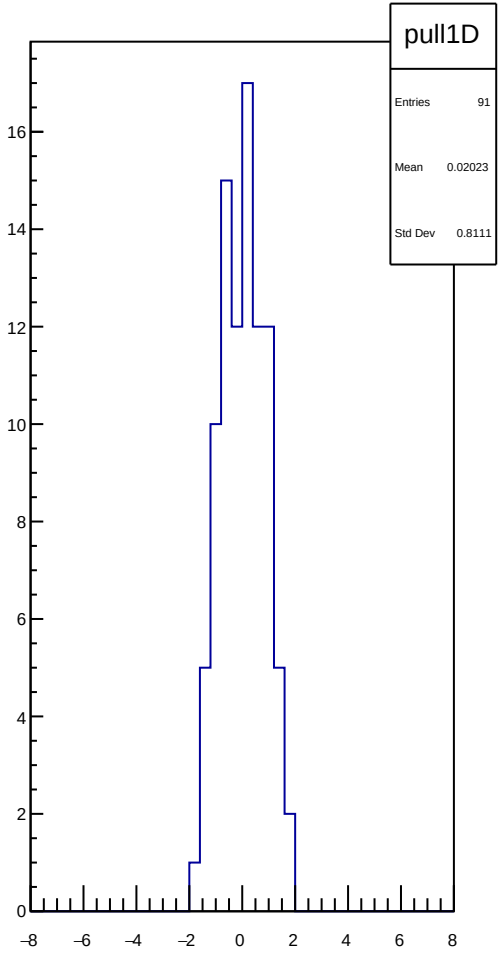

pull1D
Entries 91
Mean −0.0249
Std Dev 1.049

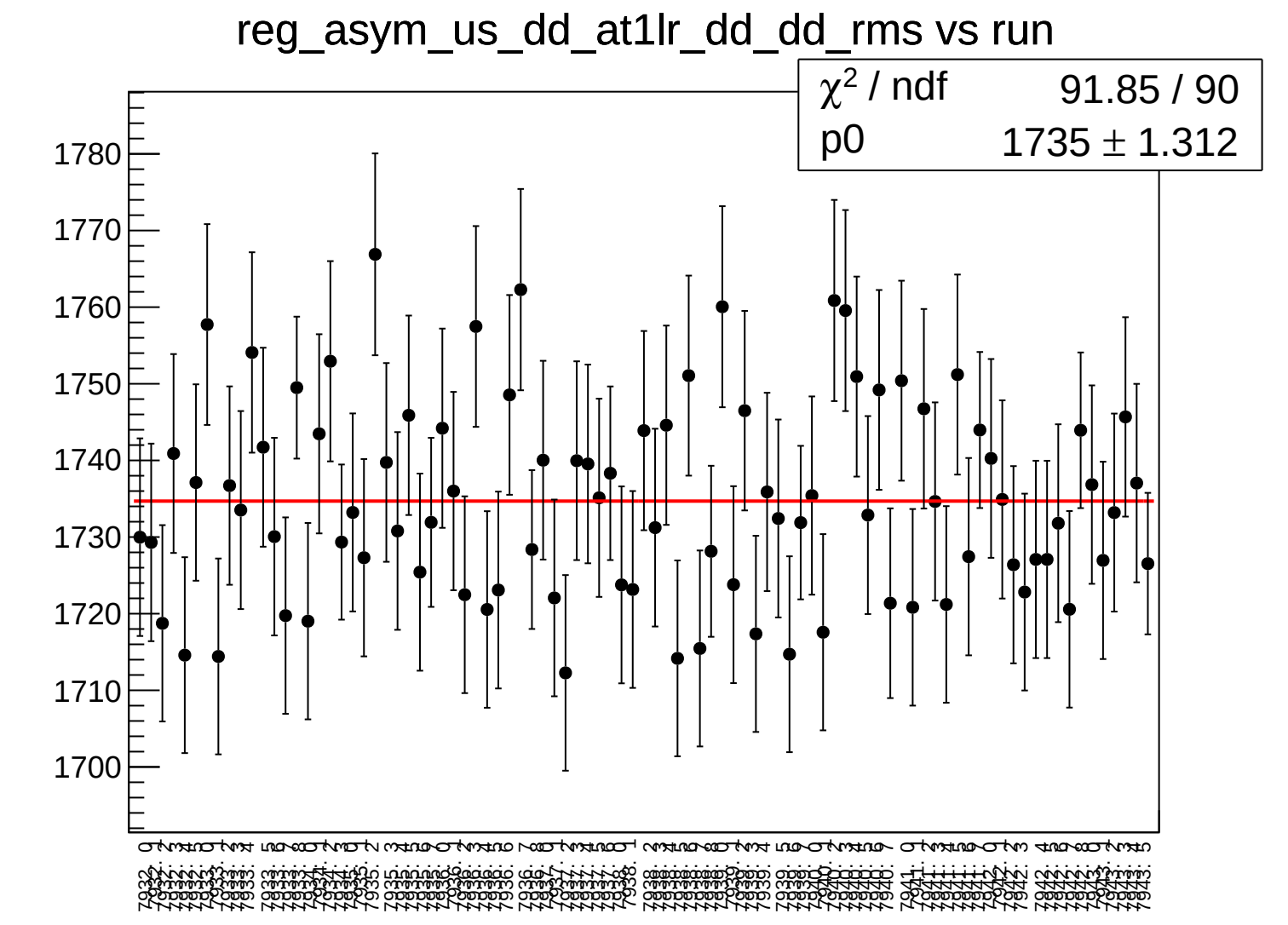

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.147e+05 / 90
p0 83.09 ± 0.06501
140
120
100
80
60
40

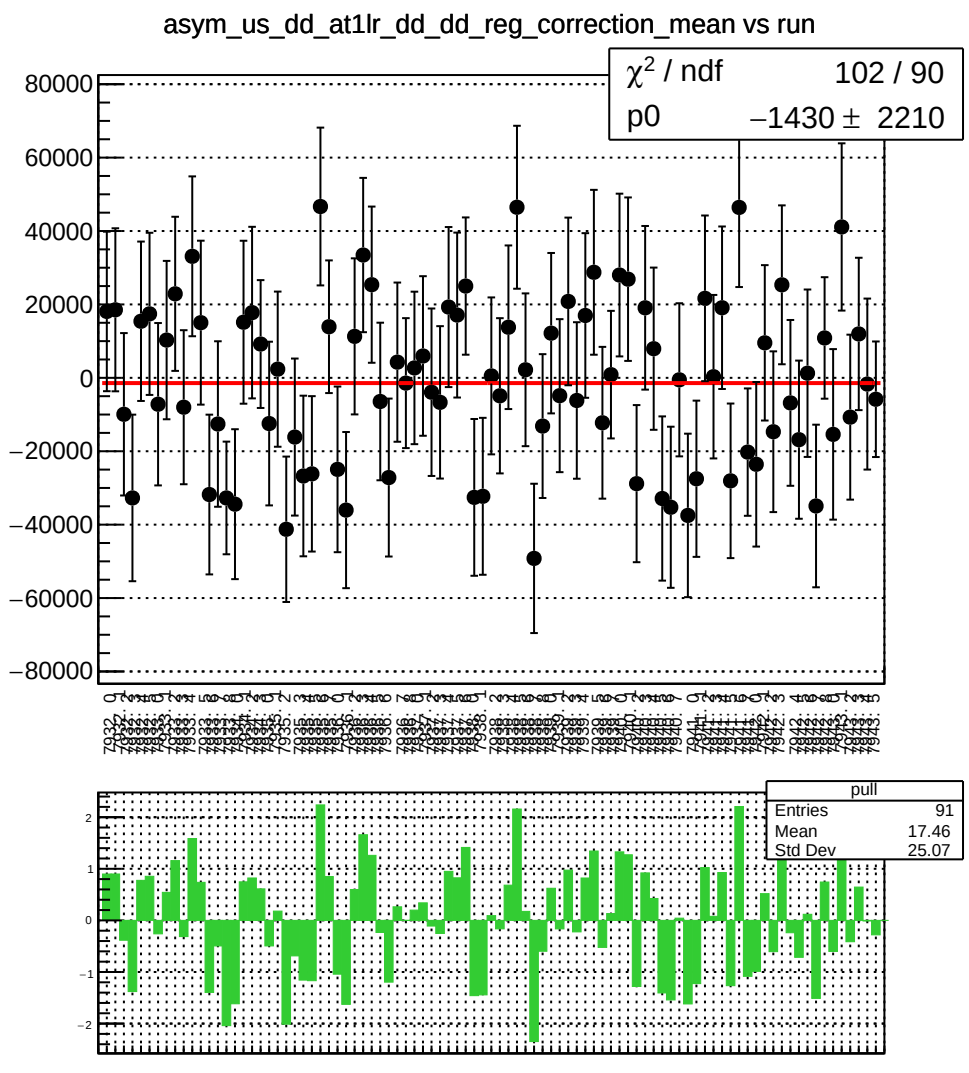

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.96 / 90
p0 1.227e−14 ± 2.316e−13
pull
Entries 91
Mean 14.74
Std Dev 25.02
pull1D
Entries 91
Mean 0.03132
Std Dev 0.9993

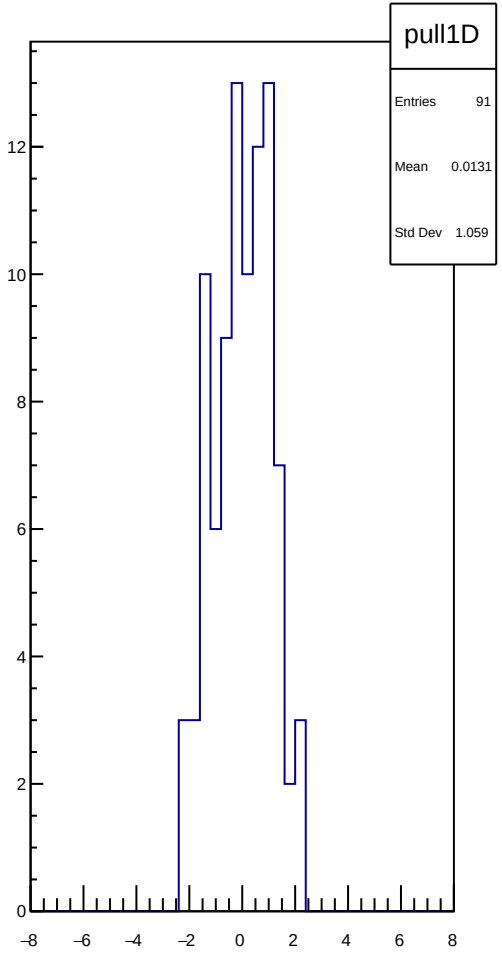

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.148e+05 / 90
p0 1.819e−10 ± 1.638e−13
1
0.8
0.6
0.4
0.2

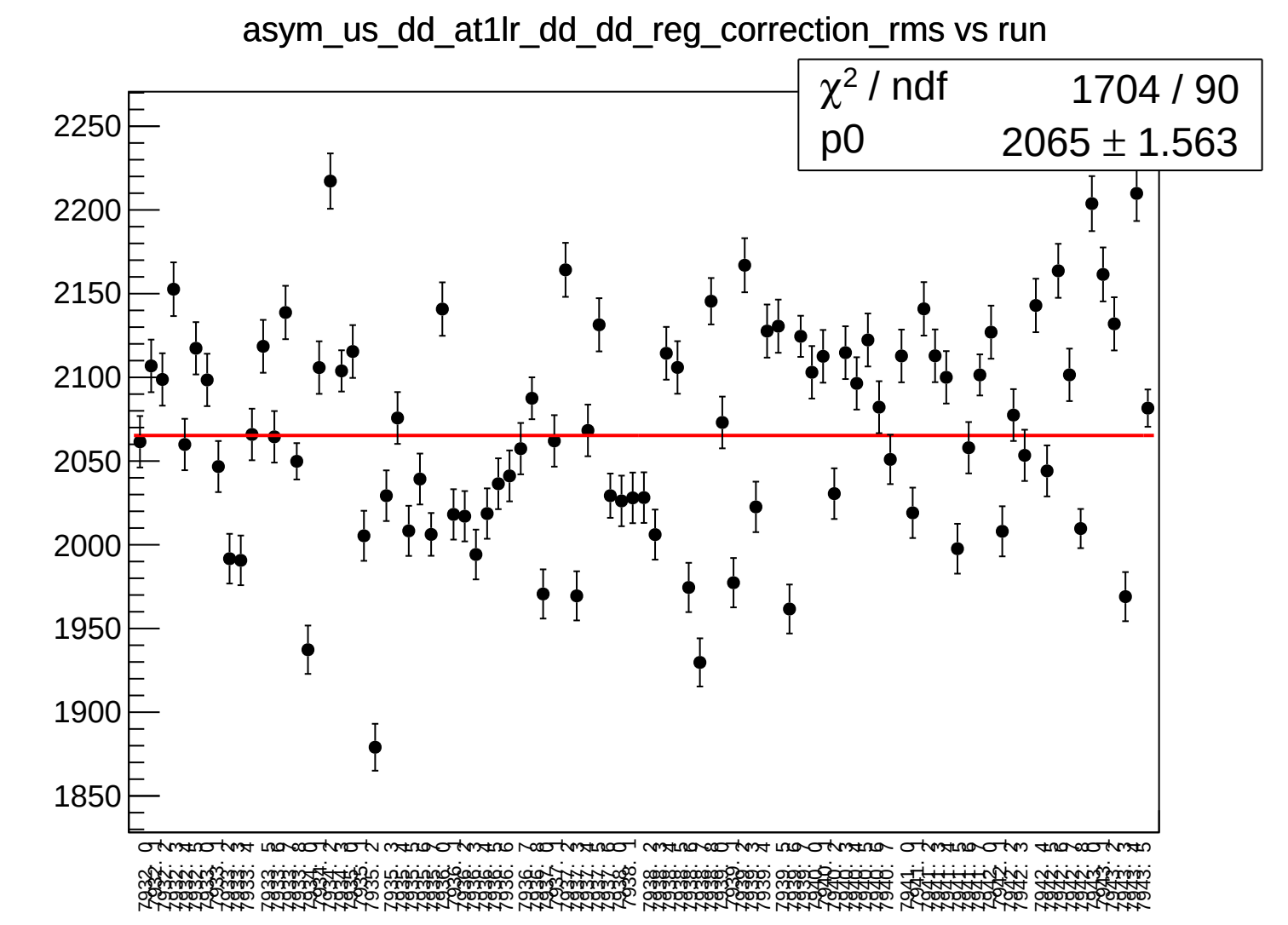

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ^2 / ndf 59.9 / 90
p0 −1644 ± 1855
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −58.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

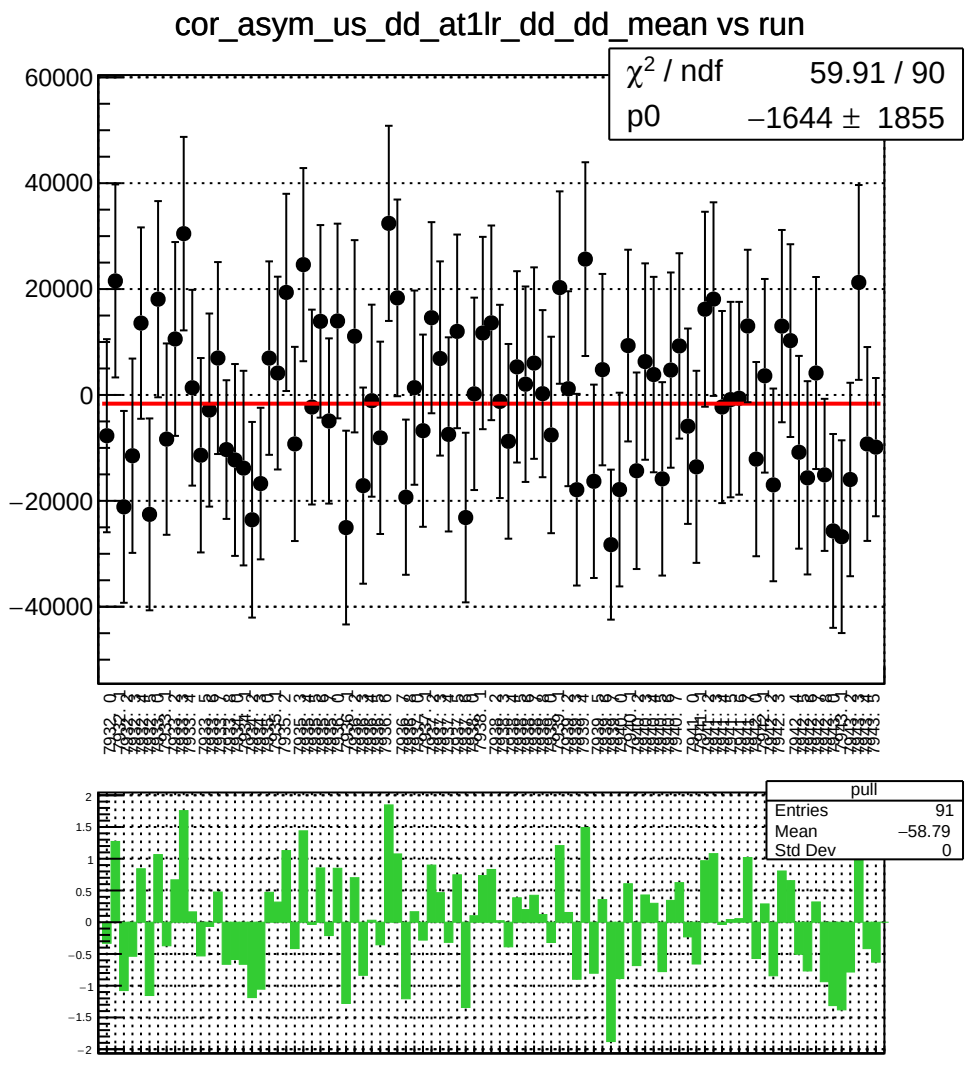

pull1D
Entries 91
Mean 0.02023
Std Dev 0.8111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

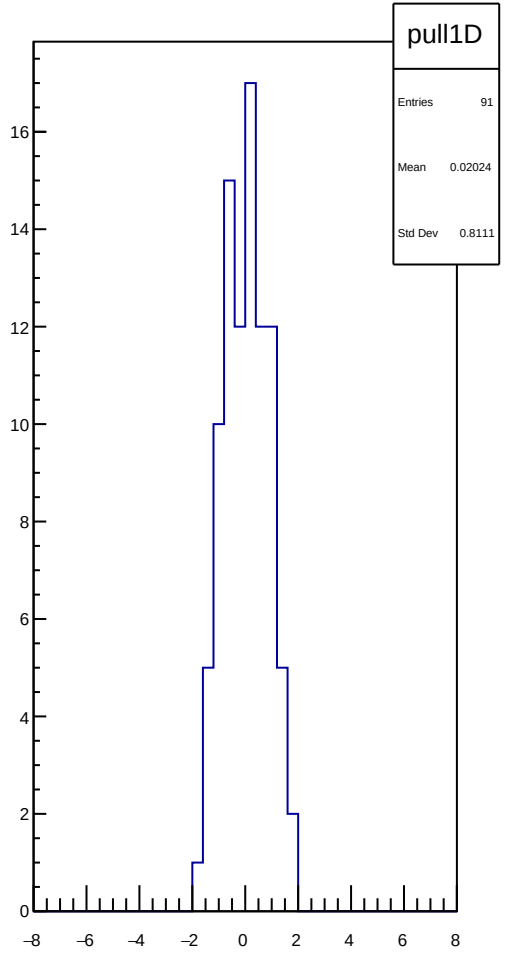

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 91.85 / 90
p0 1735 ± 1.312
1780
1770
1760
1750
1740
1730
1720
1710
1700

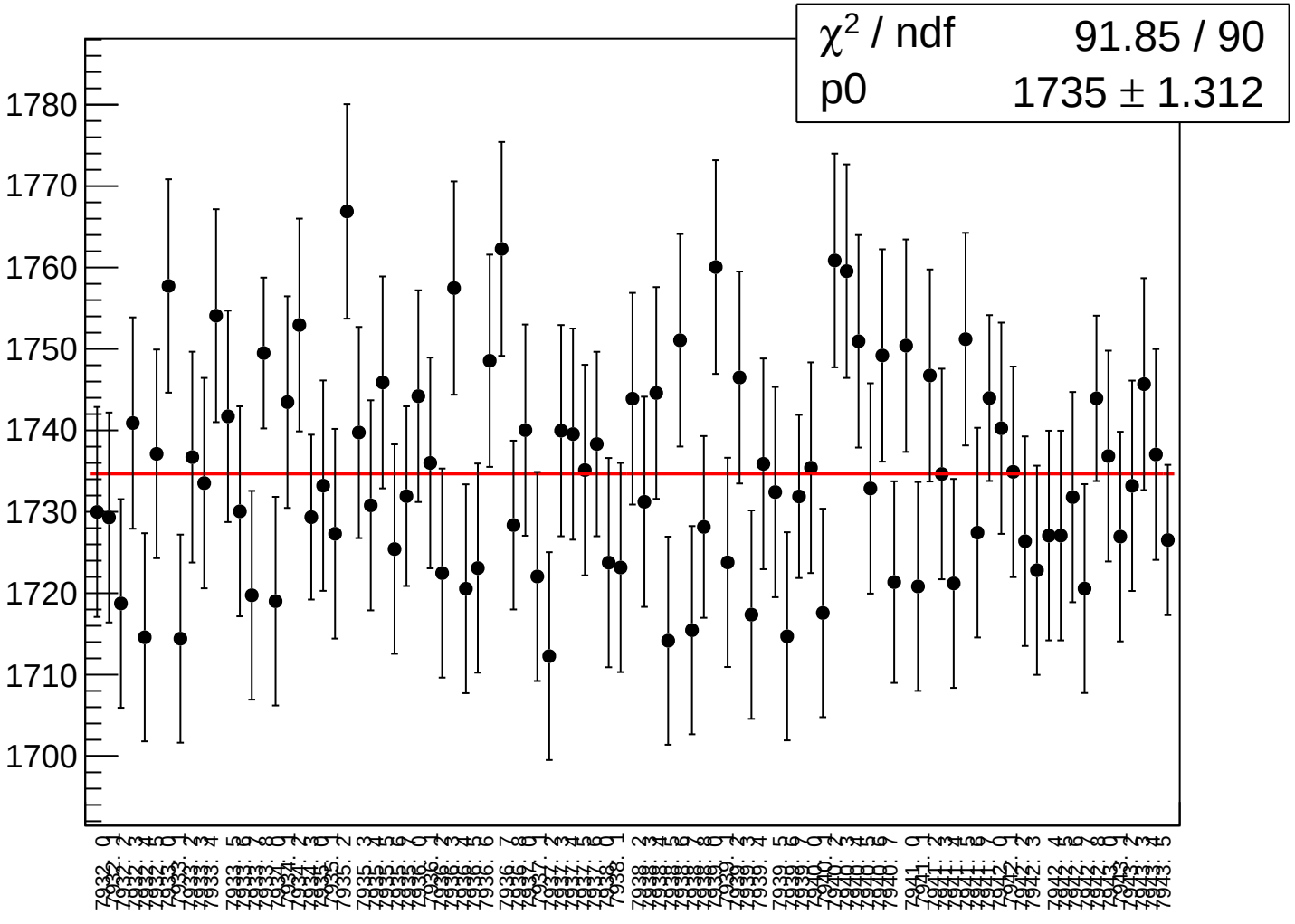

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 102 / 90
p0 −1430 ± 2210
pull
Entries 91
Mean 17.46
Std Dev 25.07

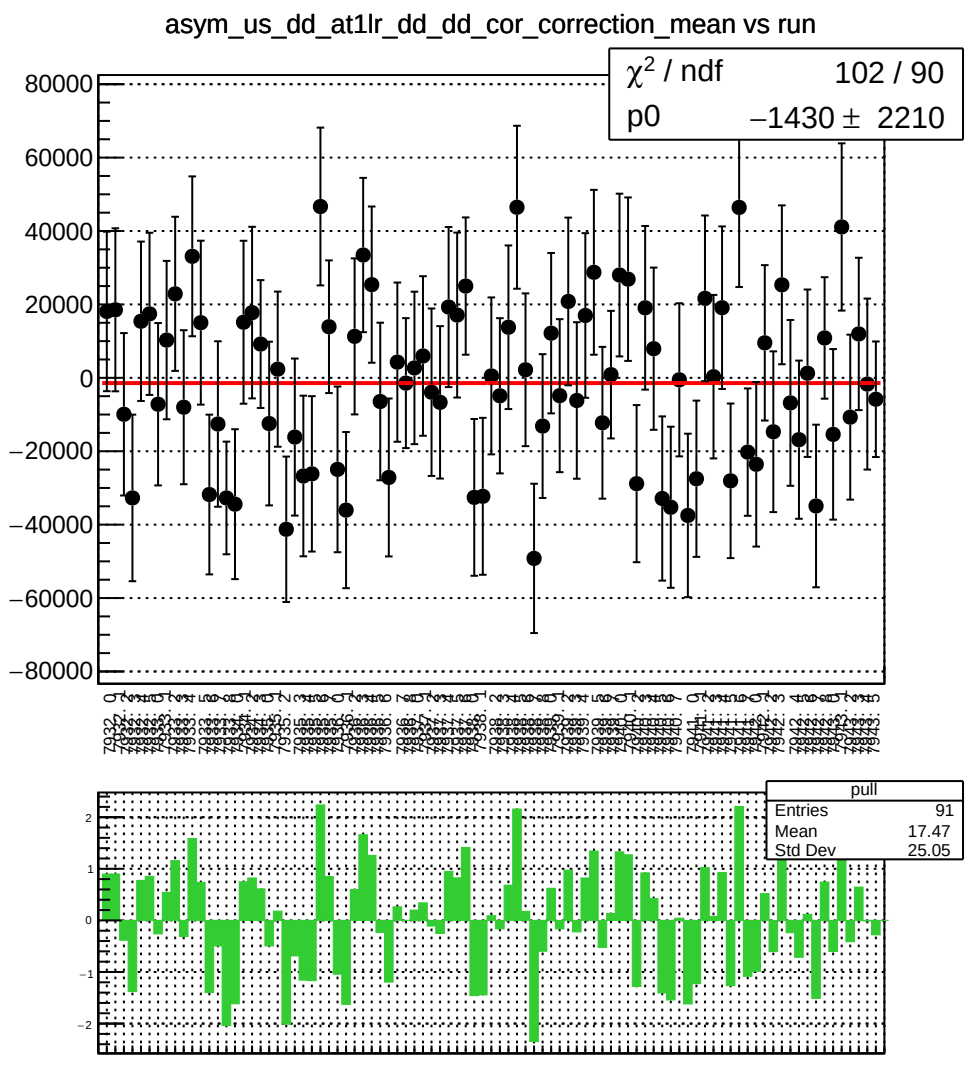

pull1D
Entries 91
Mean 0.0131
Std Dev 1.059

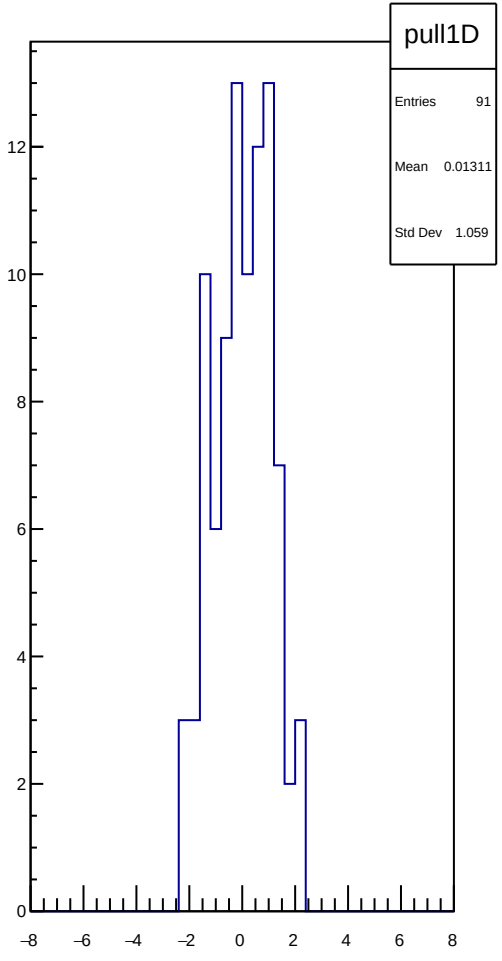

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1704 / 90
p0 2065 ± 1.563
2250
2200
2150
2100
2050
2000
1950
1900
1850

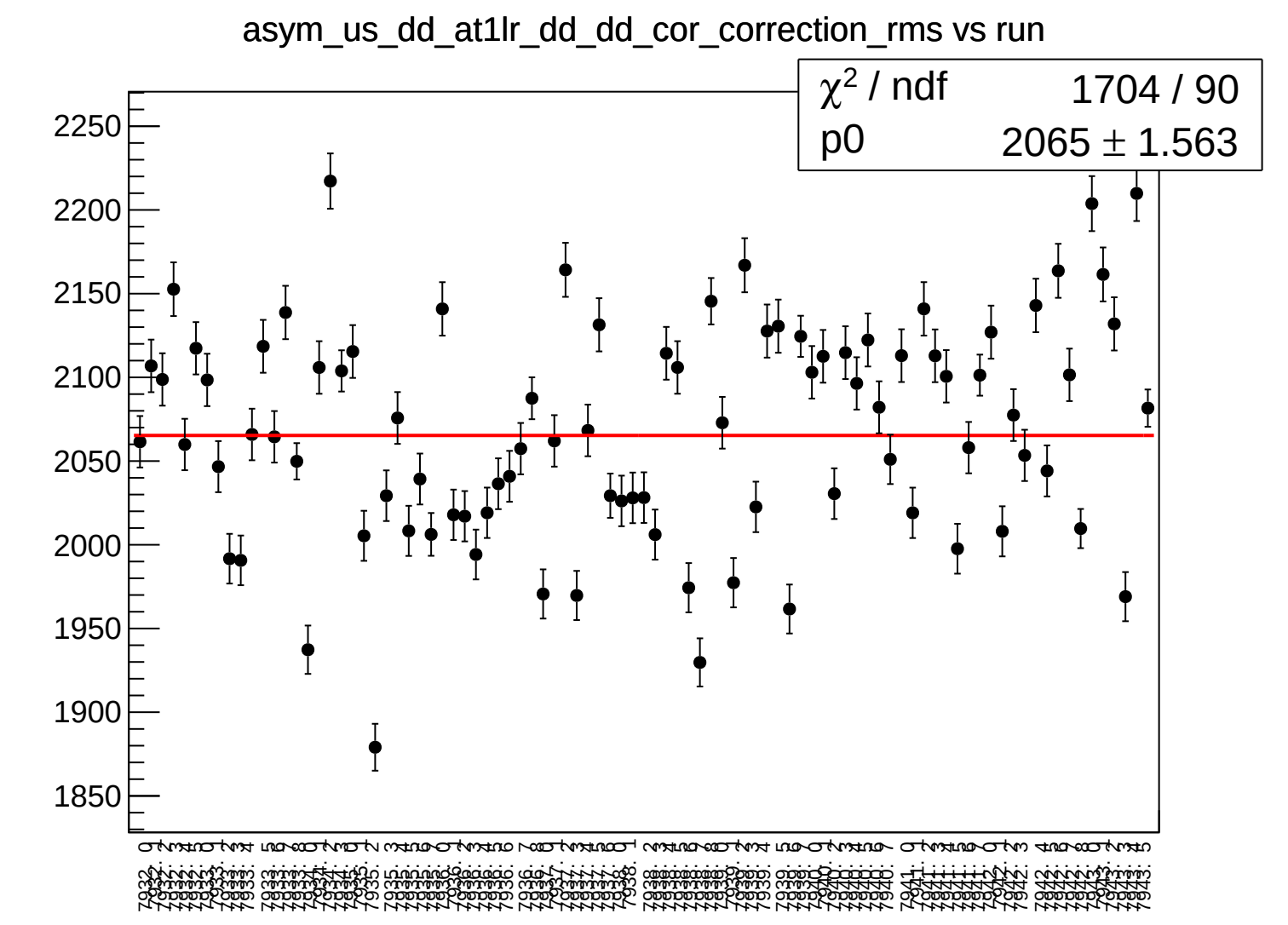

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 59.91 / 90
p0 −1644 ± 1855
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −58.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

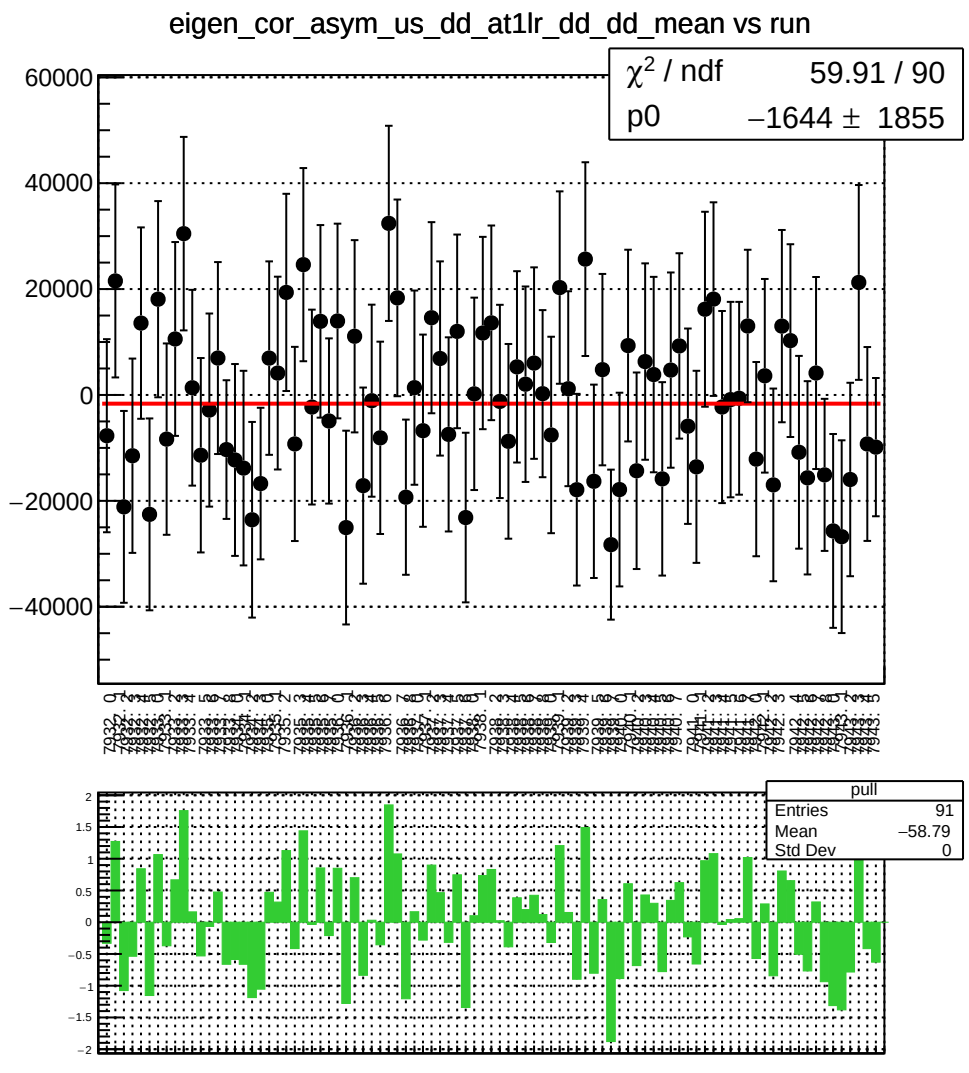

pull1D
Entries 91
Mean 0.02024
Std Dev 0.8111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

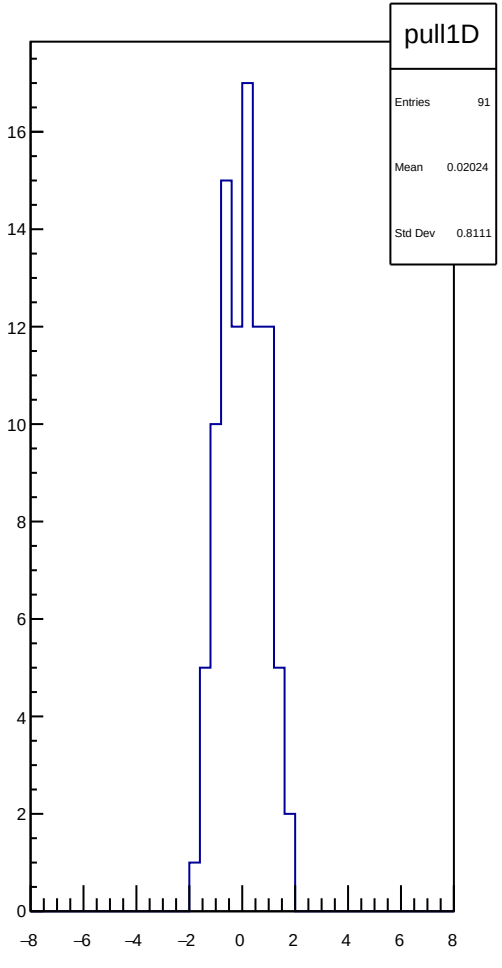

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 91.85 / 90
p0 1735 ± 1.312
1780
1770
1760
1750
1740
1730
1720
1710
1700

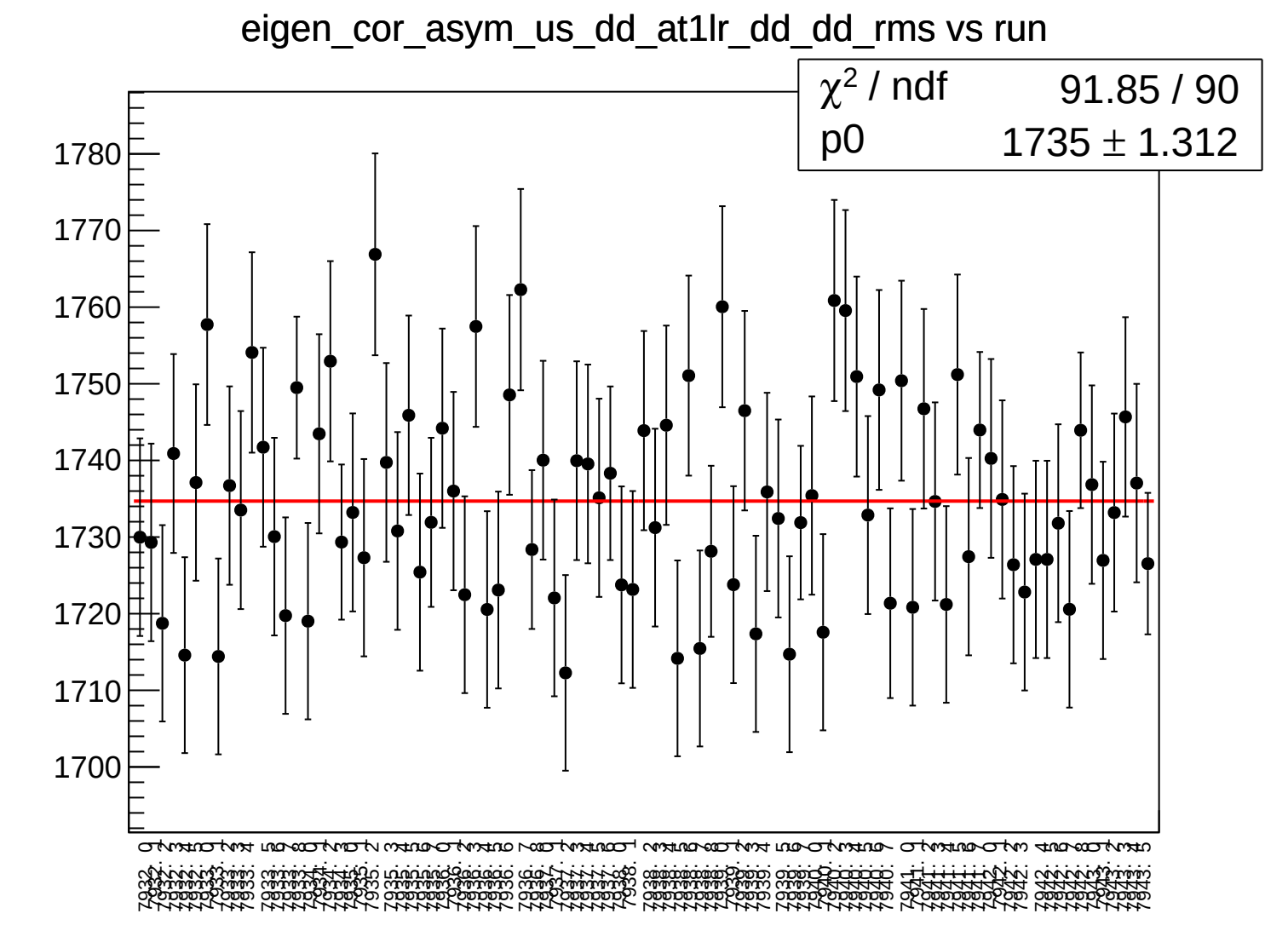

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 102 / 90
p0 −1430 ± 2210
pull
Entries 91
Mean 17.47
Std Dev 25.05

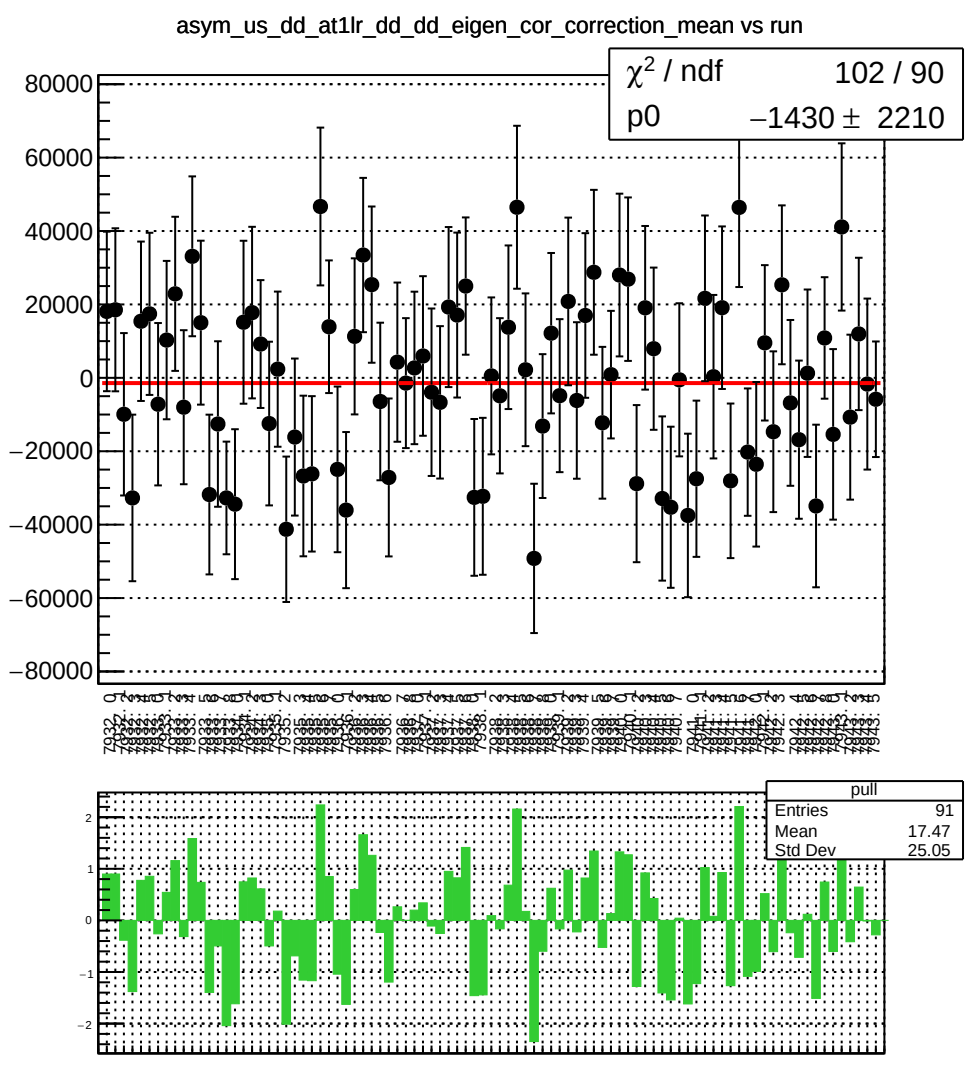

pull1D
Entries 91
Mean 0.01311
Std Dev 1.059

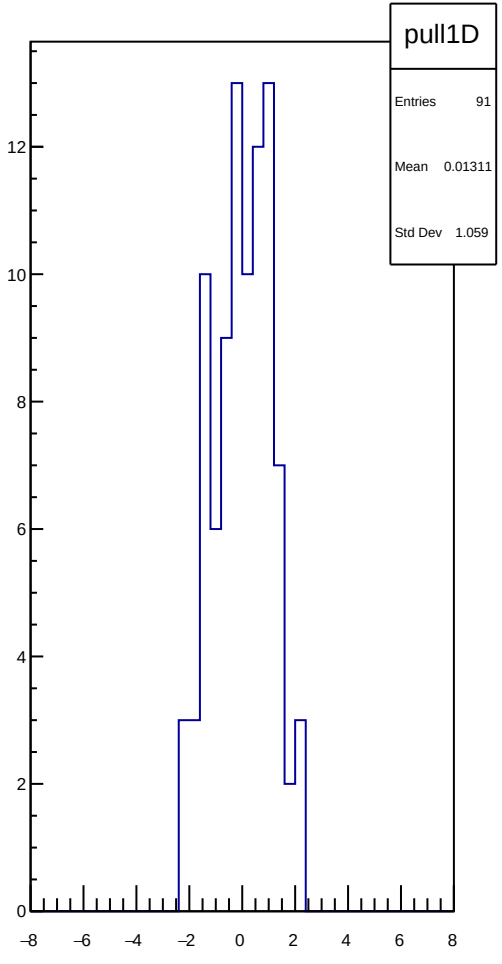

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1704 / 90
p0 2065 ± 1.563
2250
2200
2150
2100
2050
2000
1950
1900
1850

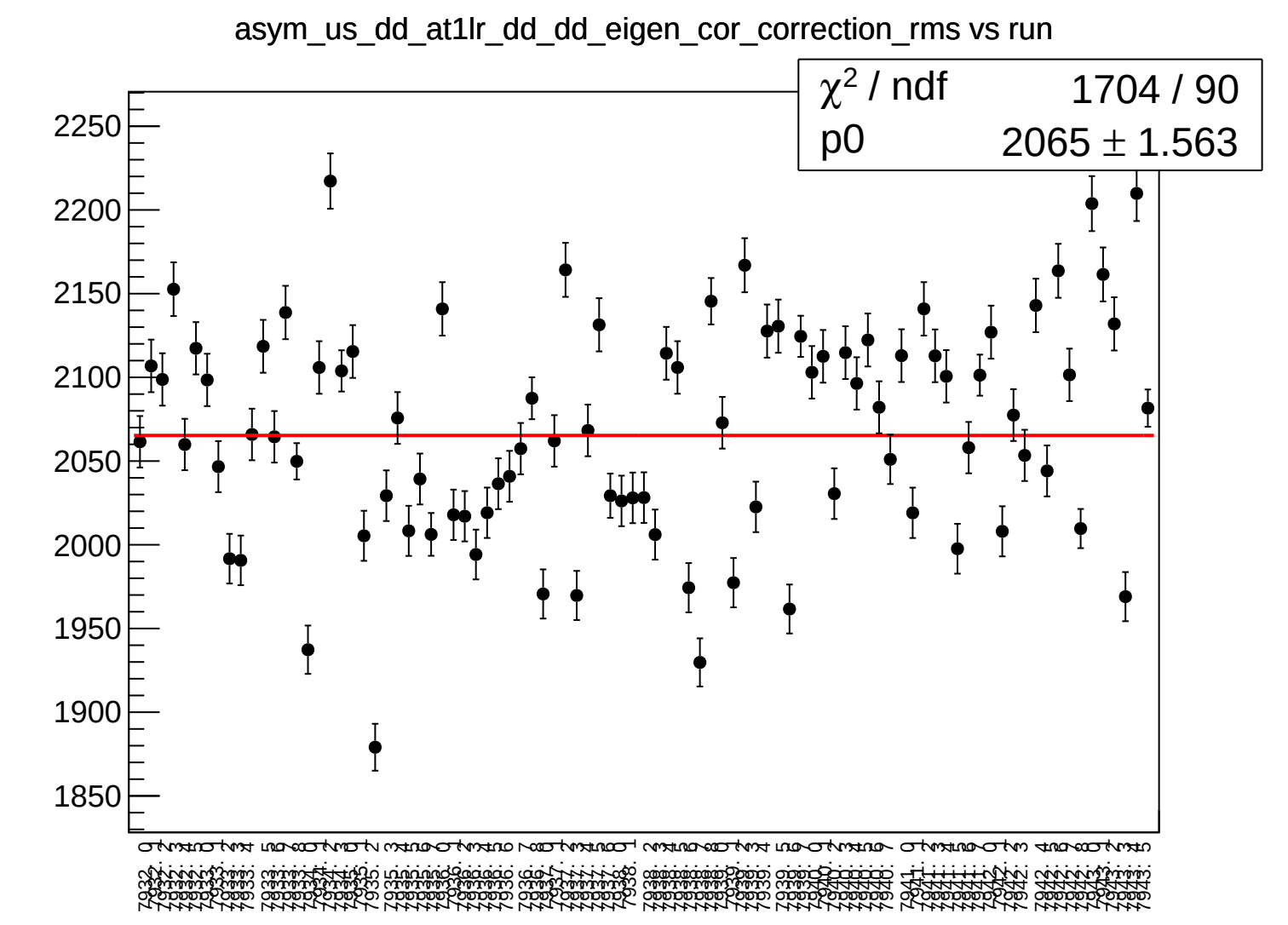

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 59.91 / 90
p0 −1644 ± 1855
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −58.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

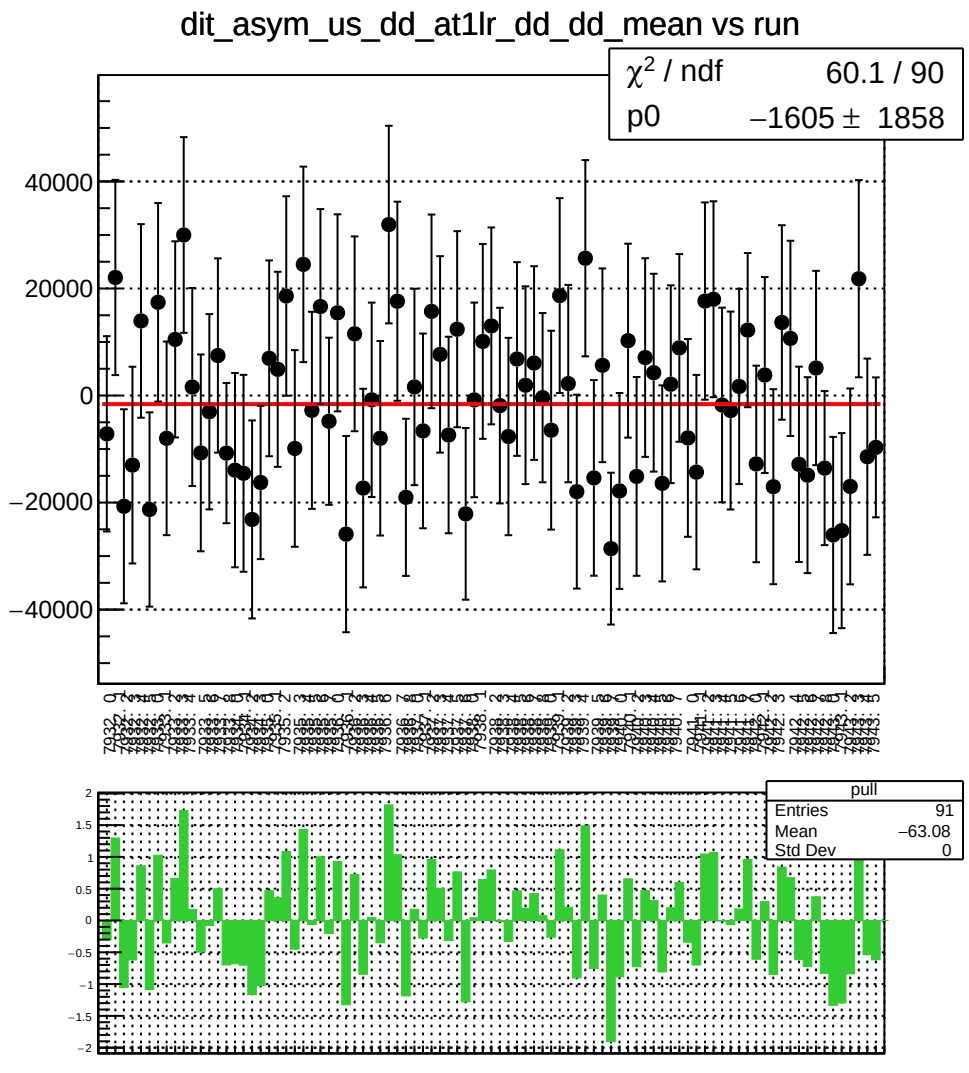

pull1D
Entries 91
Mean 0.02024
Std Dev 0.8111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

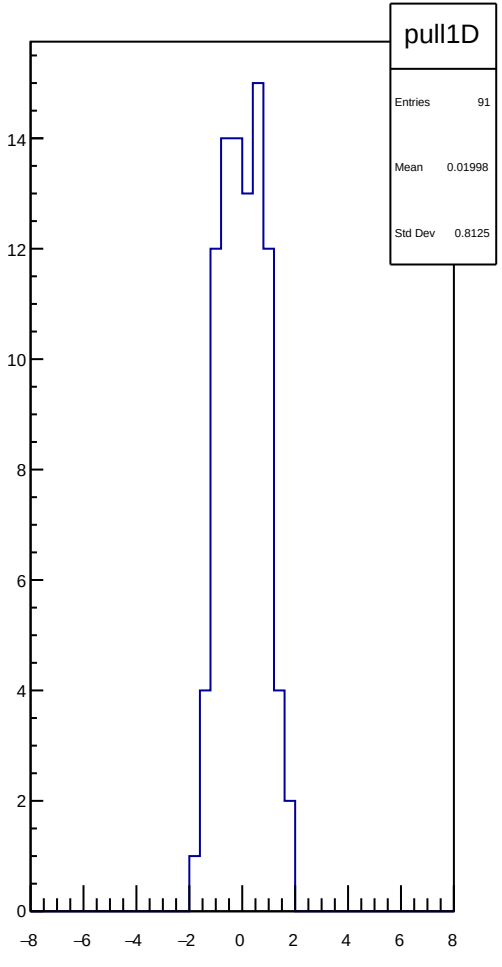

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 91.85 / 90
p0 1735 ± 1.312
1780
1770
1760
1750
1740
1730
1720
1710
1700

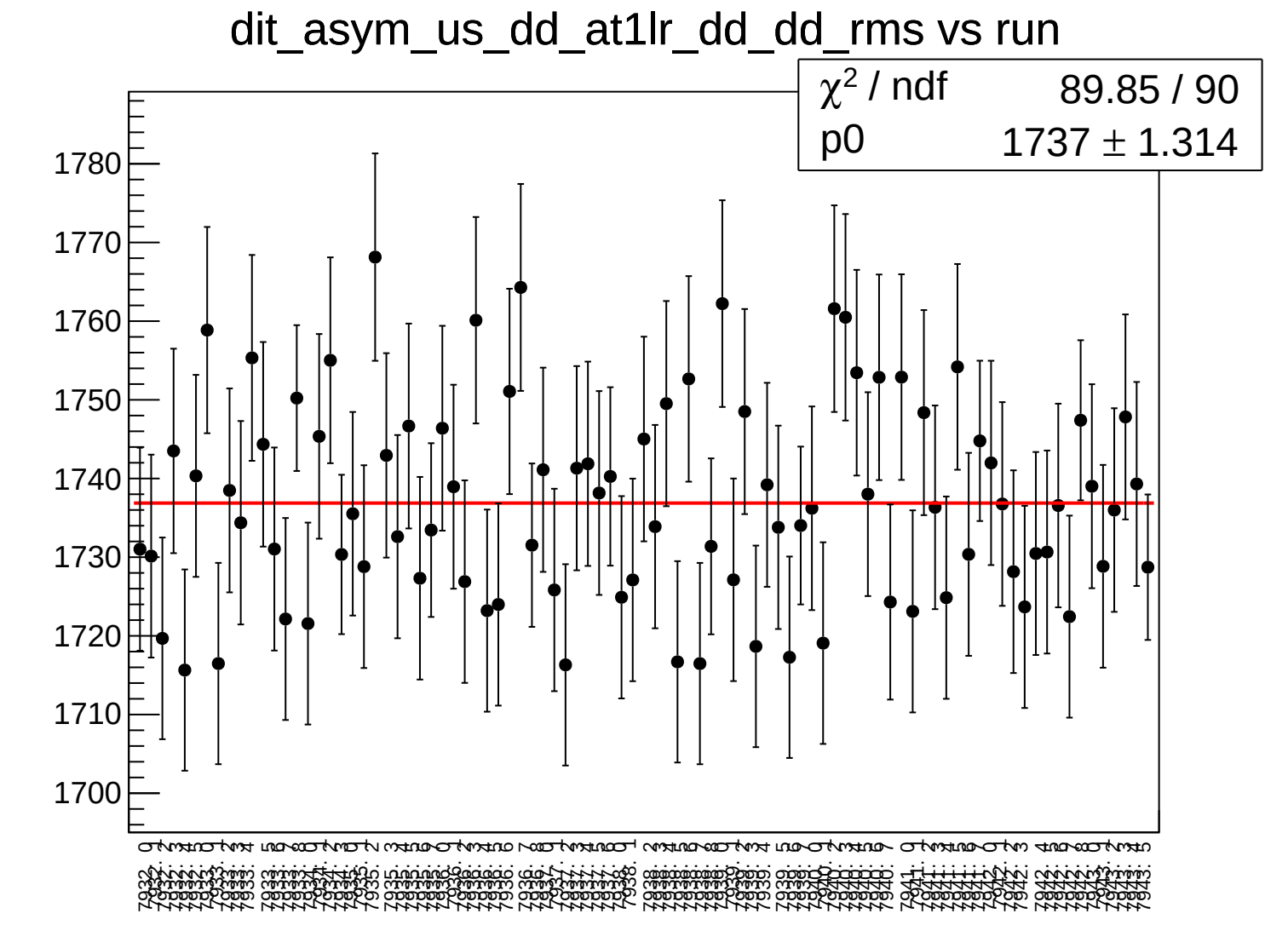

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 102 / 90
p0 −1430 ± 2210
pull
Entries 91
Mean 17.47
Std Dev 25.05

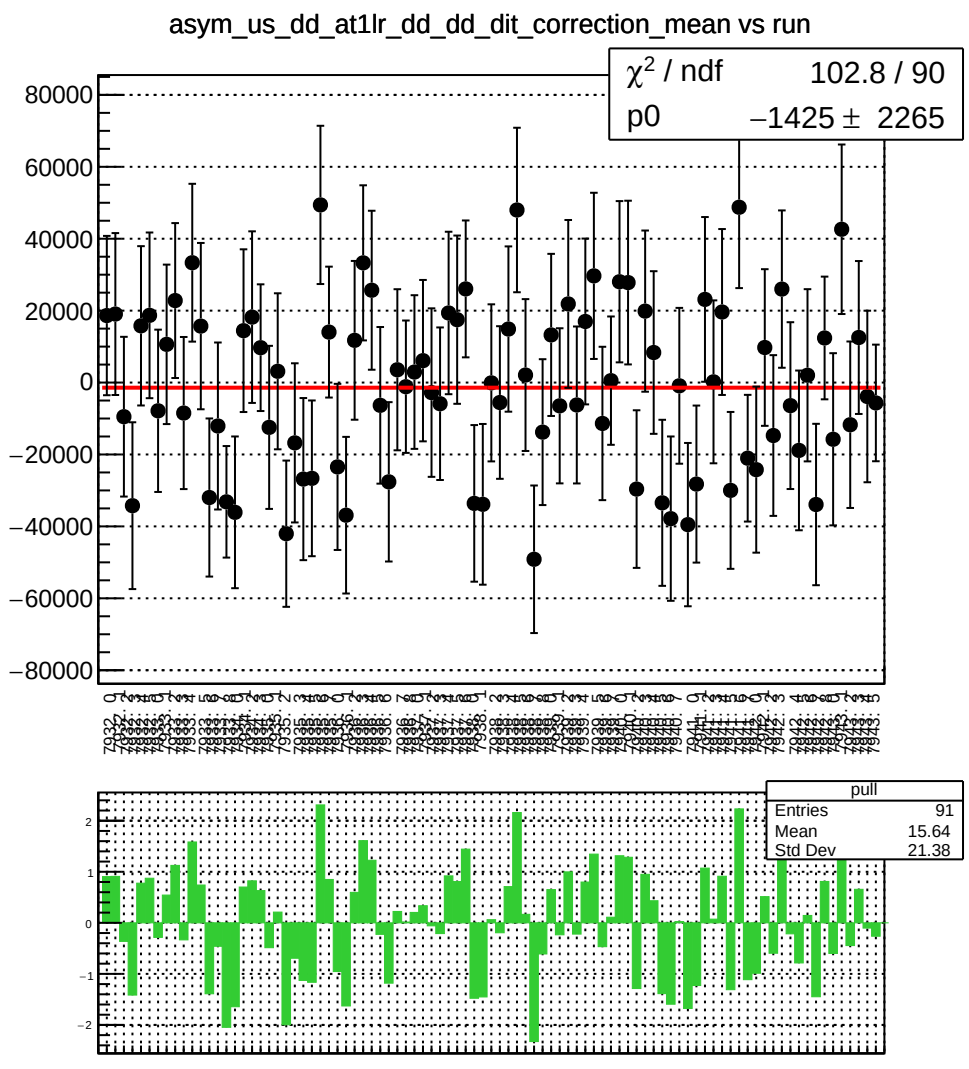

pull1D
Entries 91
Mean 0.01311
Std Dev 1.059

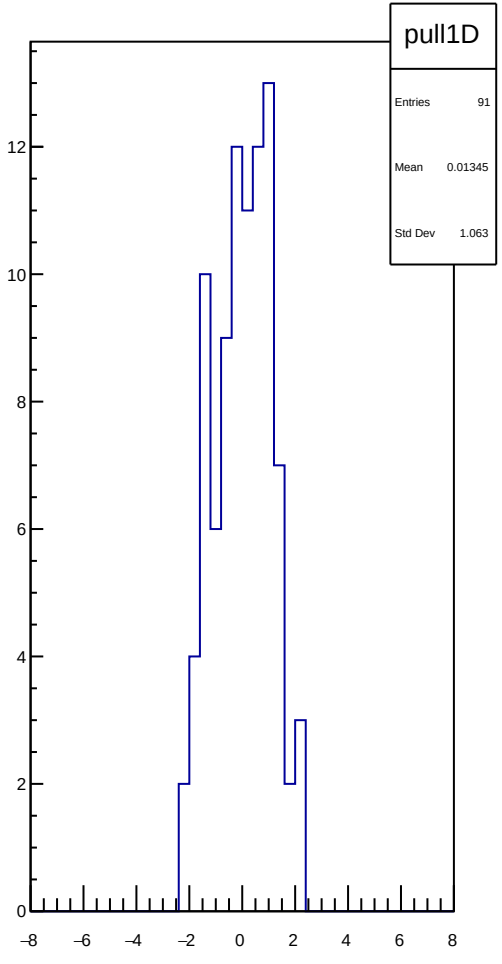

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1704 / 90
p0 2065 ± 1.563
2250
2200
2150
2100
2050
2000
1950
1900
1850

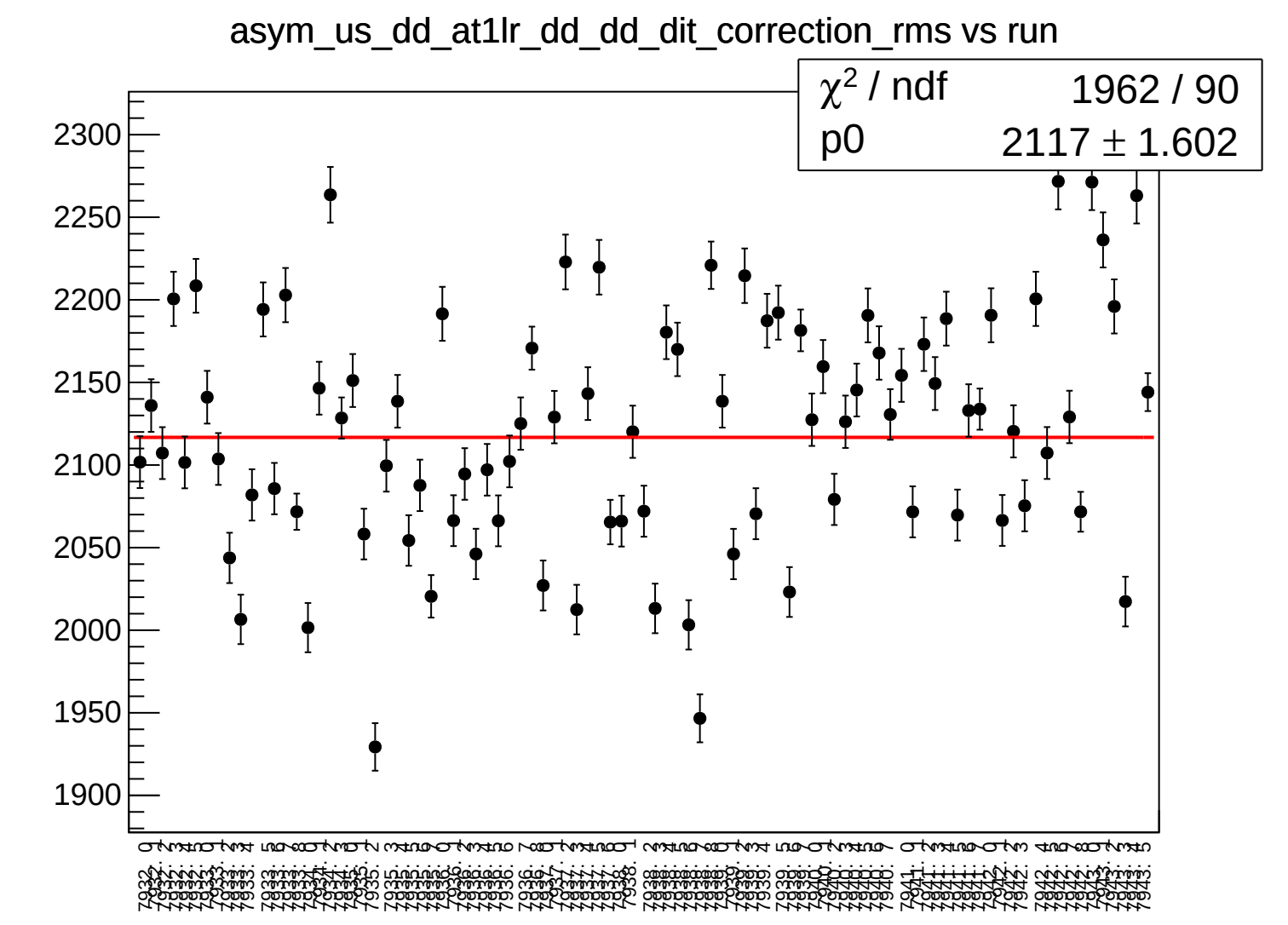

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 60.1 / 90
p0 −1605 ± 1858
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −63.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

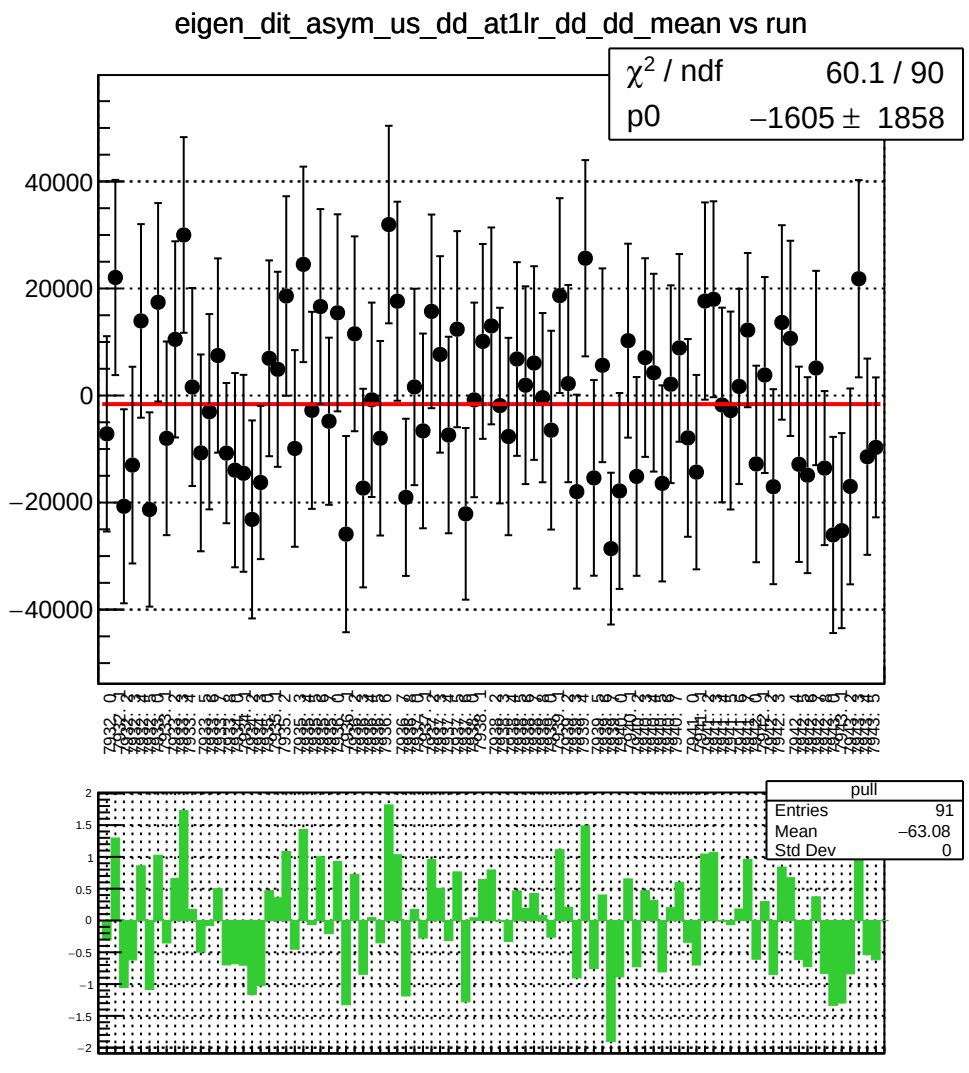

pull1D
Entries 91
Mean 0.01998
Std Dev 0.8125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

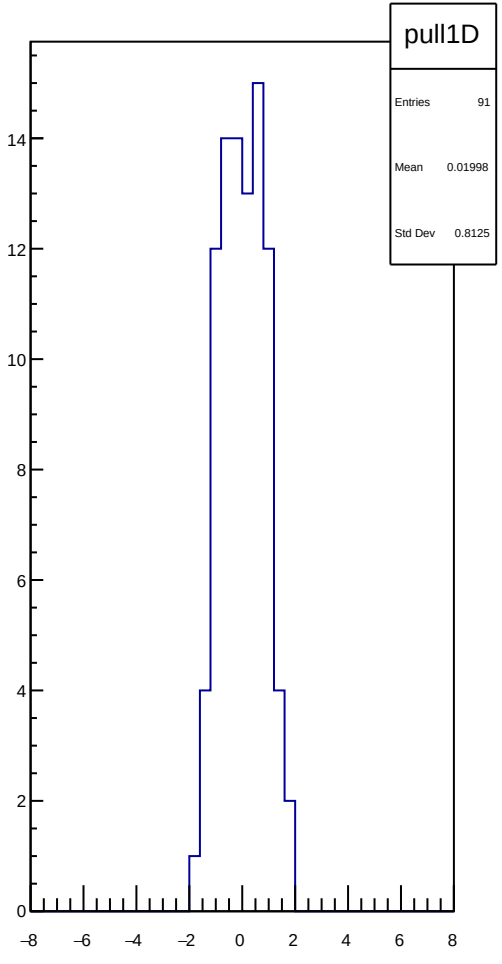

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 89.85 / 90
p0 1737 ± 1.314
1780
1770
1760
1750
1740
1730
1720
1710
1700

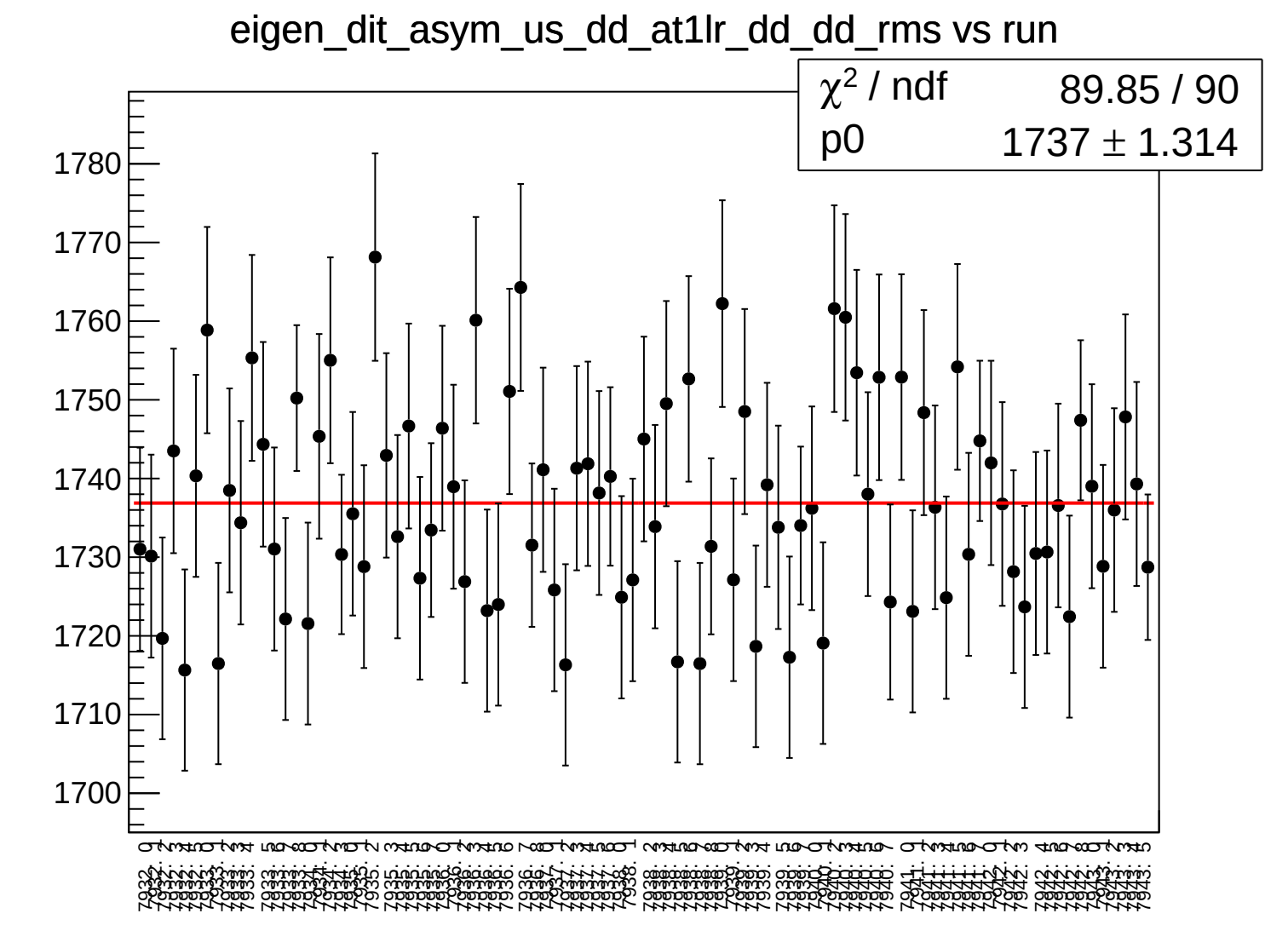

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 102.8 / 90
p0 −1425 ± 2265
pull
Entries 91
Mean 15.64
Std Dev 21.38

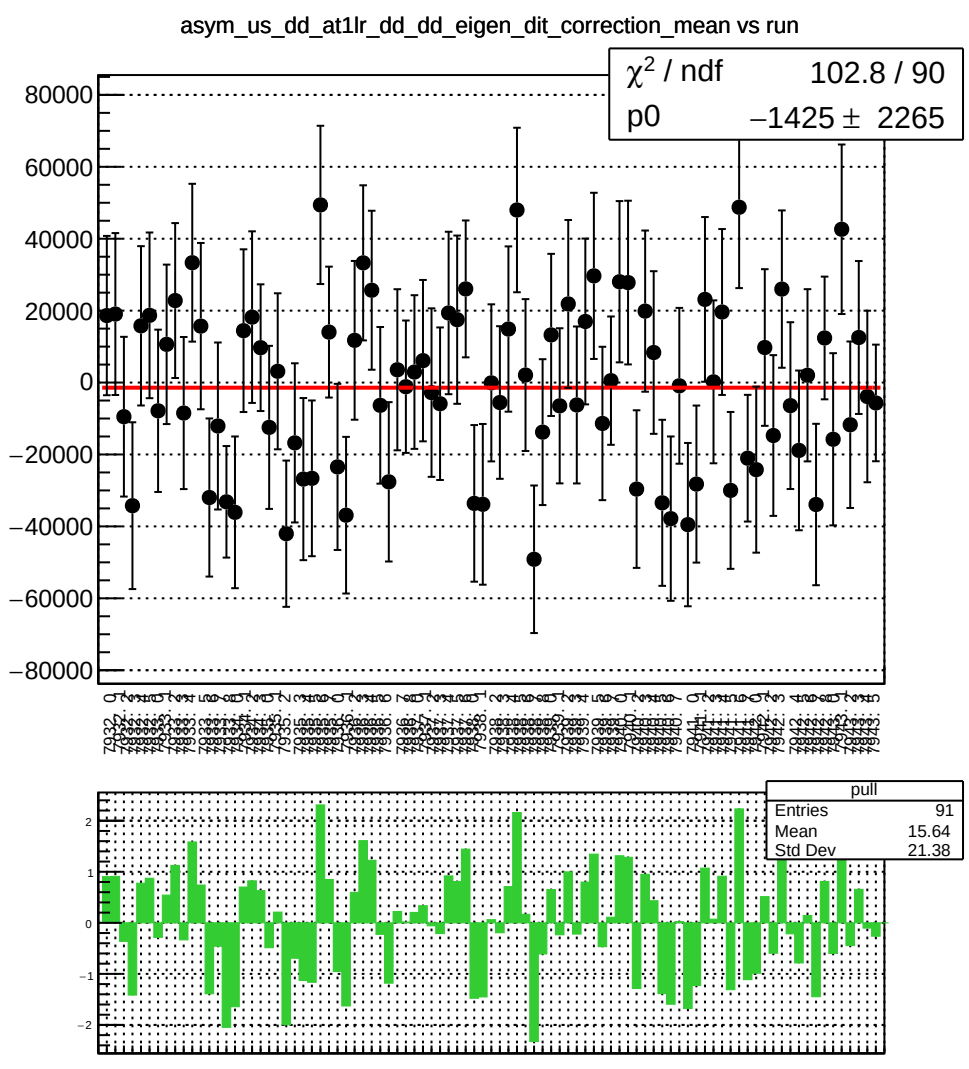

pull1D
Entries 91
Mean 0.01345
Std Dev 1.063

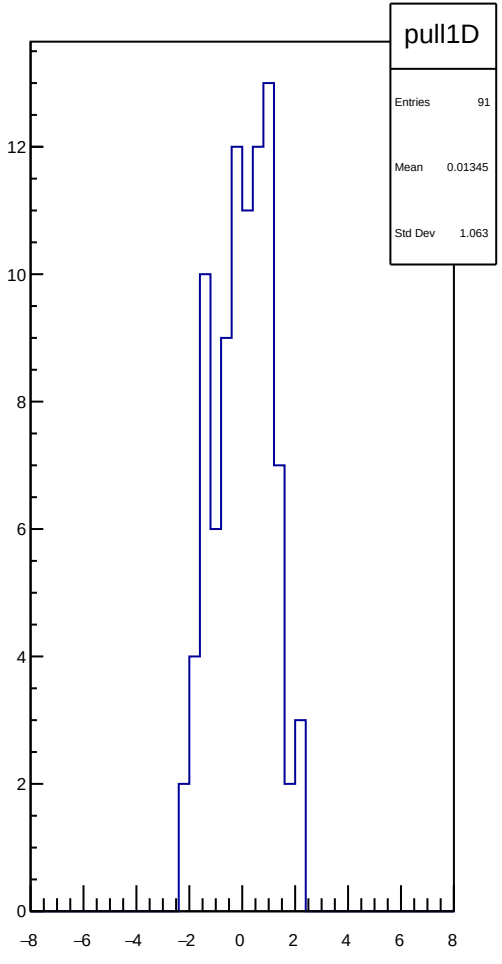

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1962 / 90
p0 2117 ± 1.602
2300
2250
2200
2150
2100
2050
2000
1950
1900

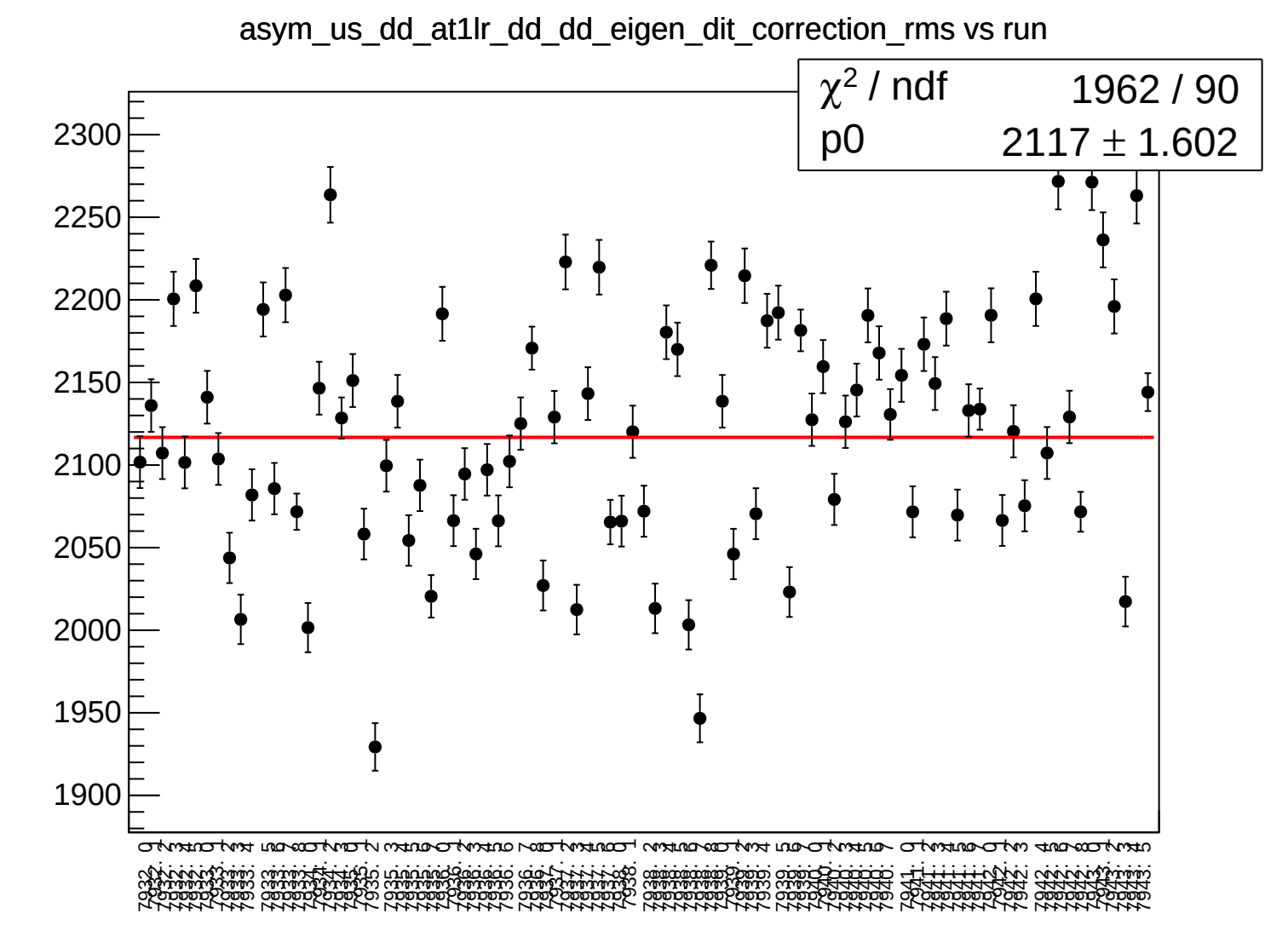

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 60.1 / 90
p0 −1605 ± 1858
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −63.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

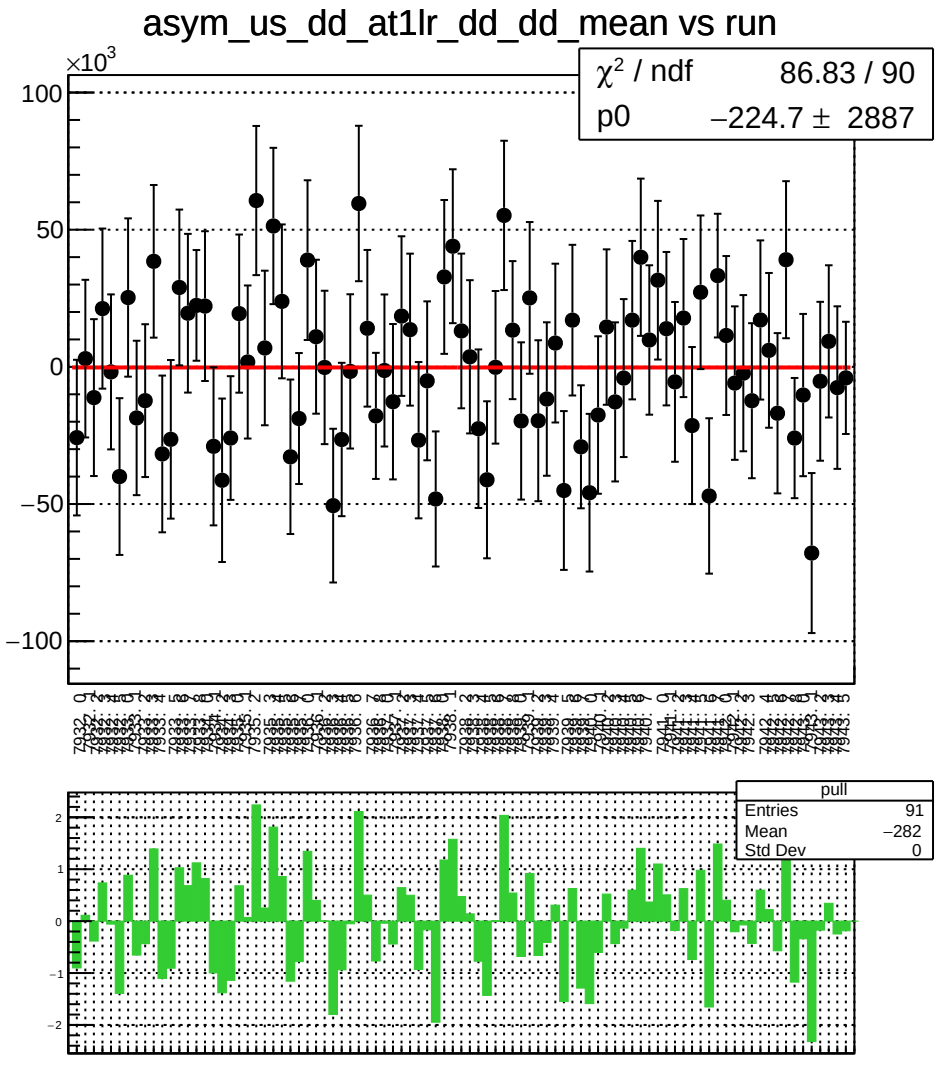

pull1D
Entries 91
Mean 0.01998
Std Dev 0.8125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

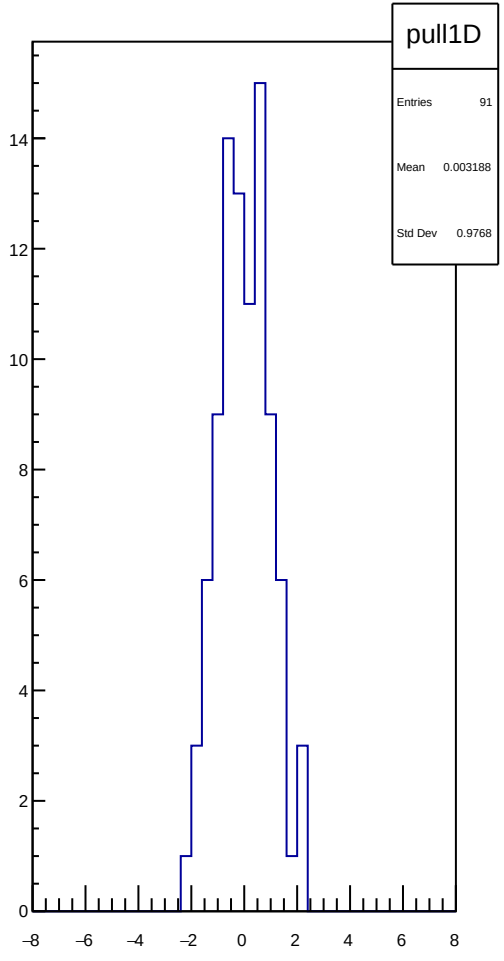

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 89.85 / 90
p0 1737 ± 1.314
1780
1770
1760
1750
1740
1730
1720
1710
1700

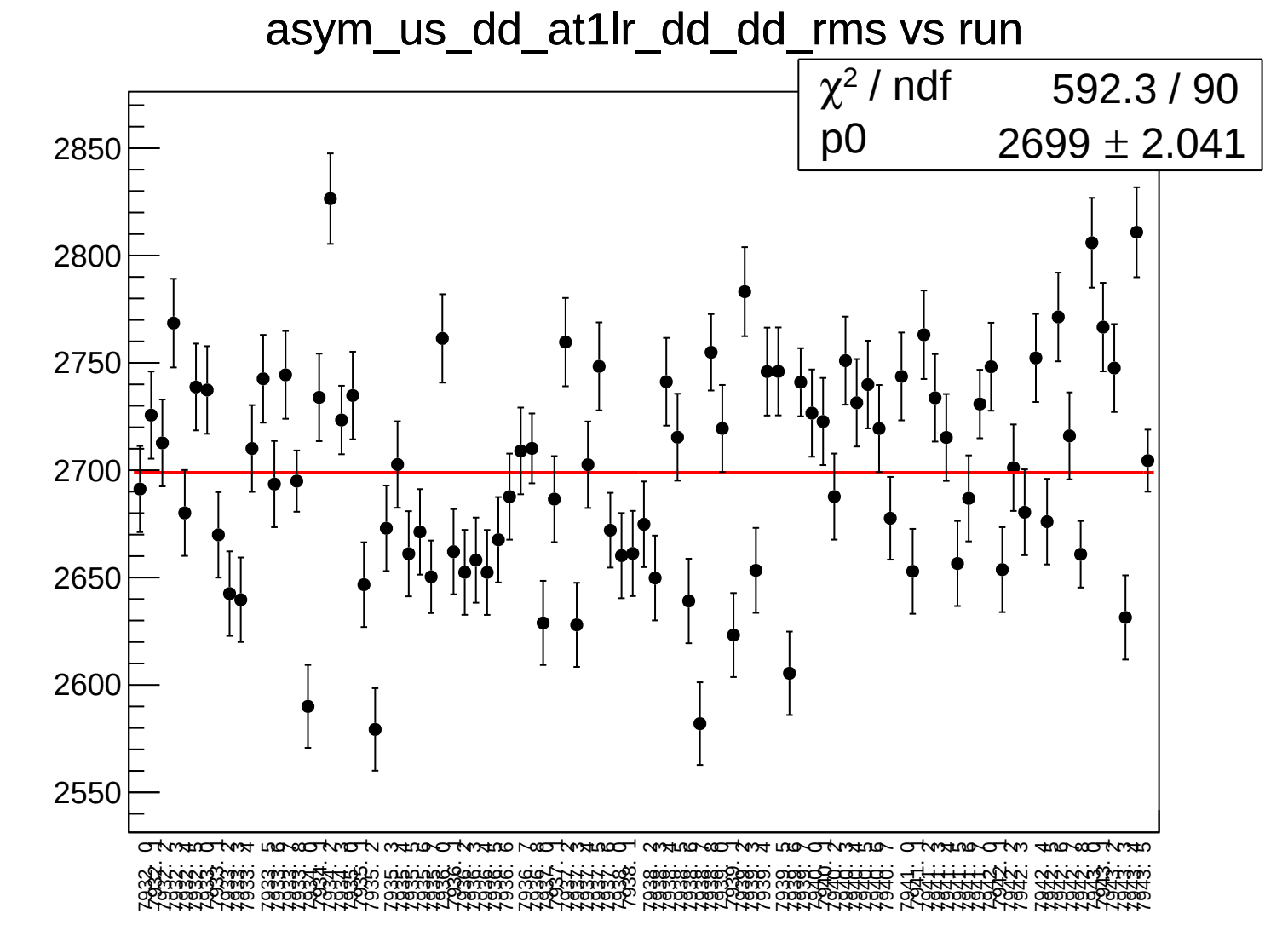

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.8 / 90
p0 −1425 ± 2265
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 15.64
Std Dev 21.38
2
1
0
−1
−2

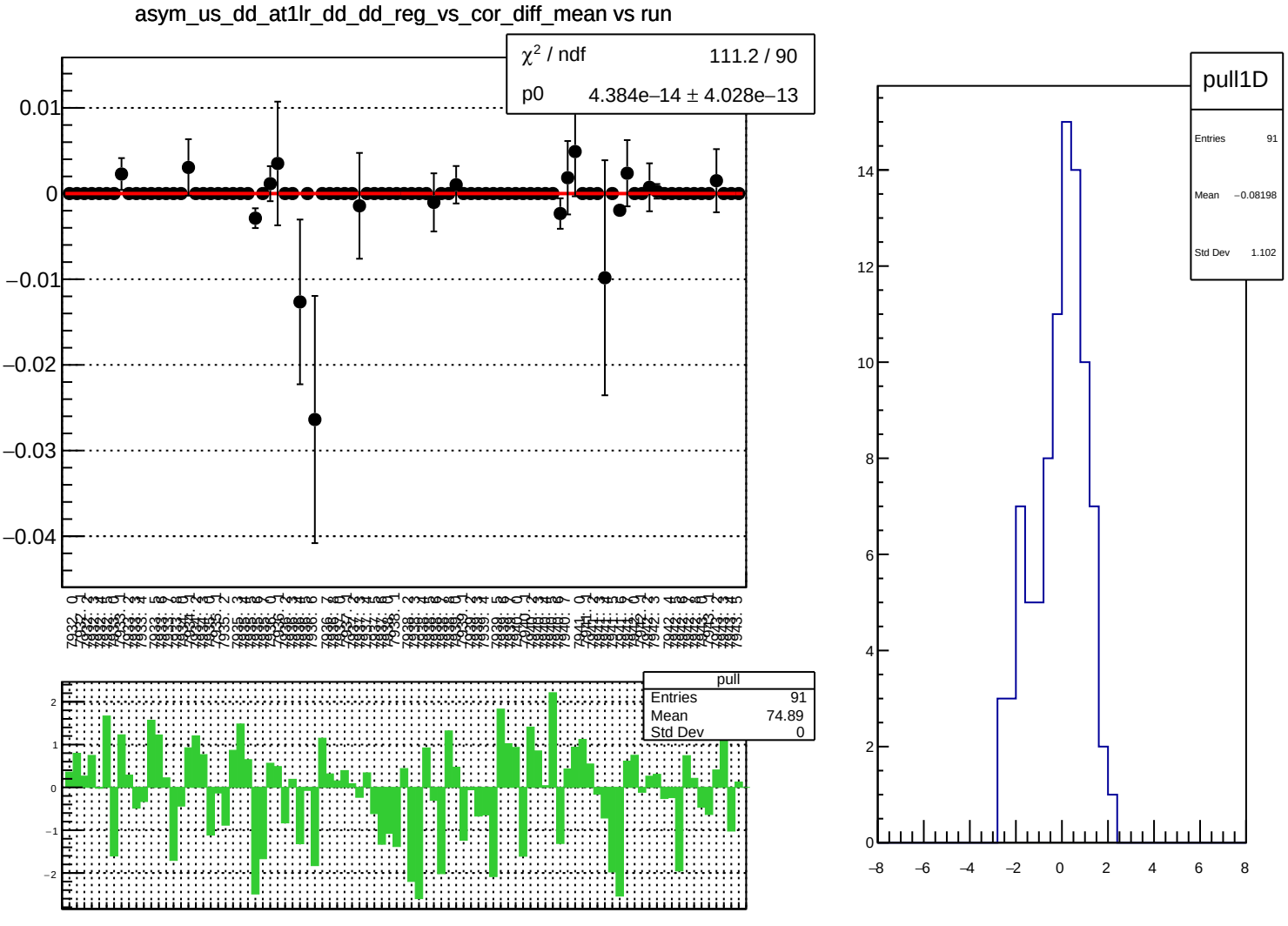

pull1D
Entries 91
Mean 0.01345
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

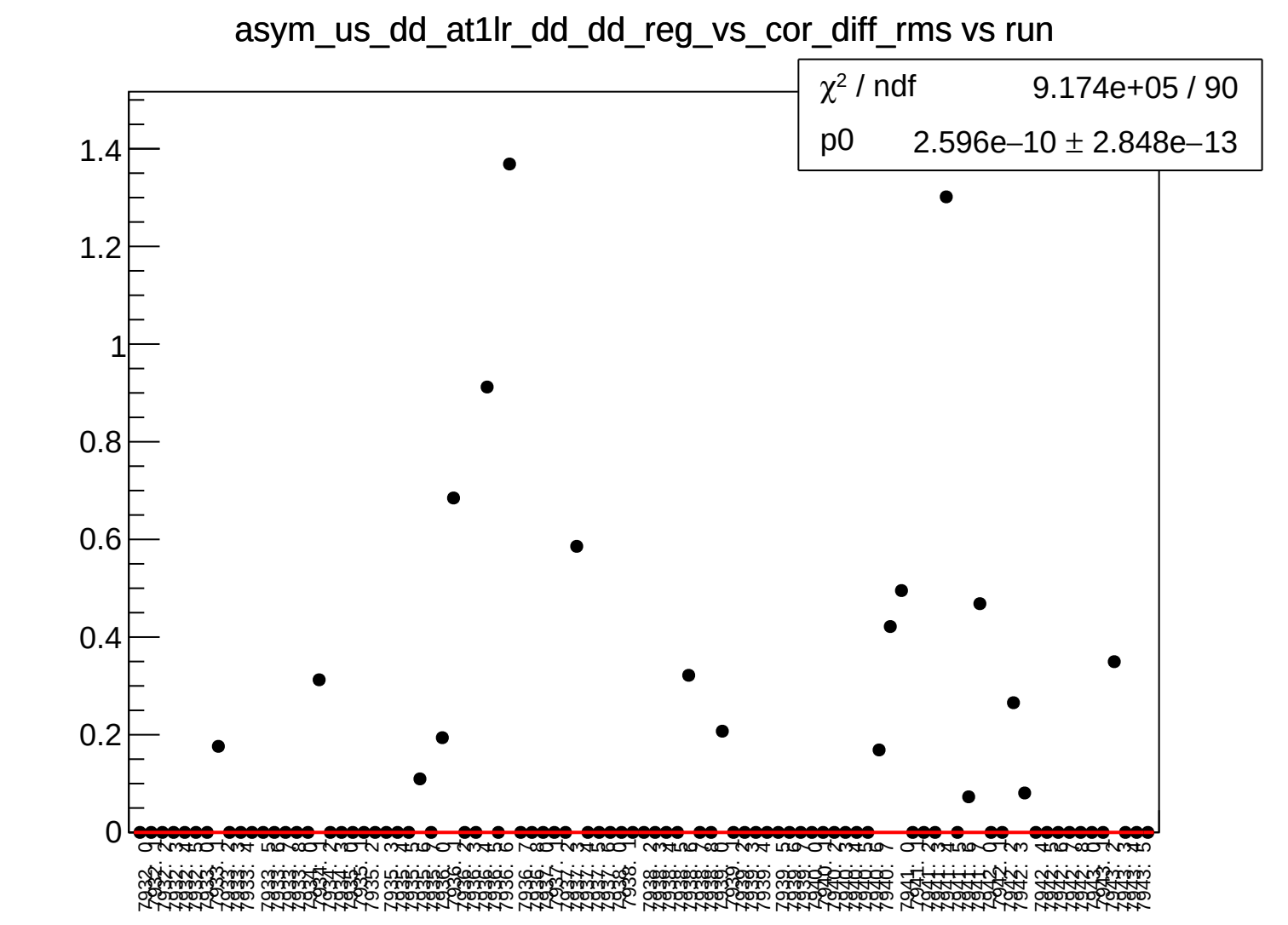

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1962 / 90
p0 2117 ± 1.602
2300
2250
2200
2150
2100
2050
2000
1950
1900

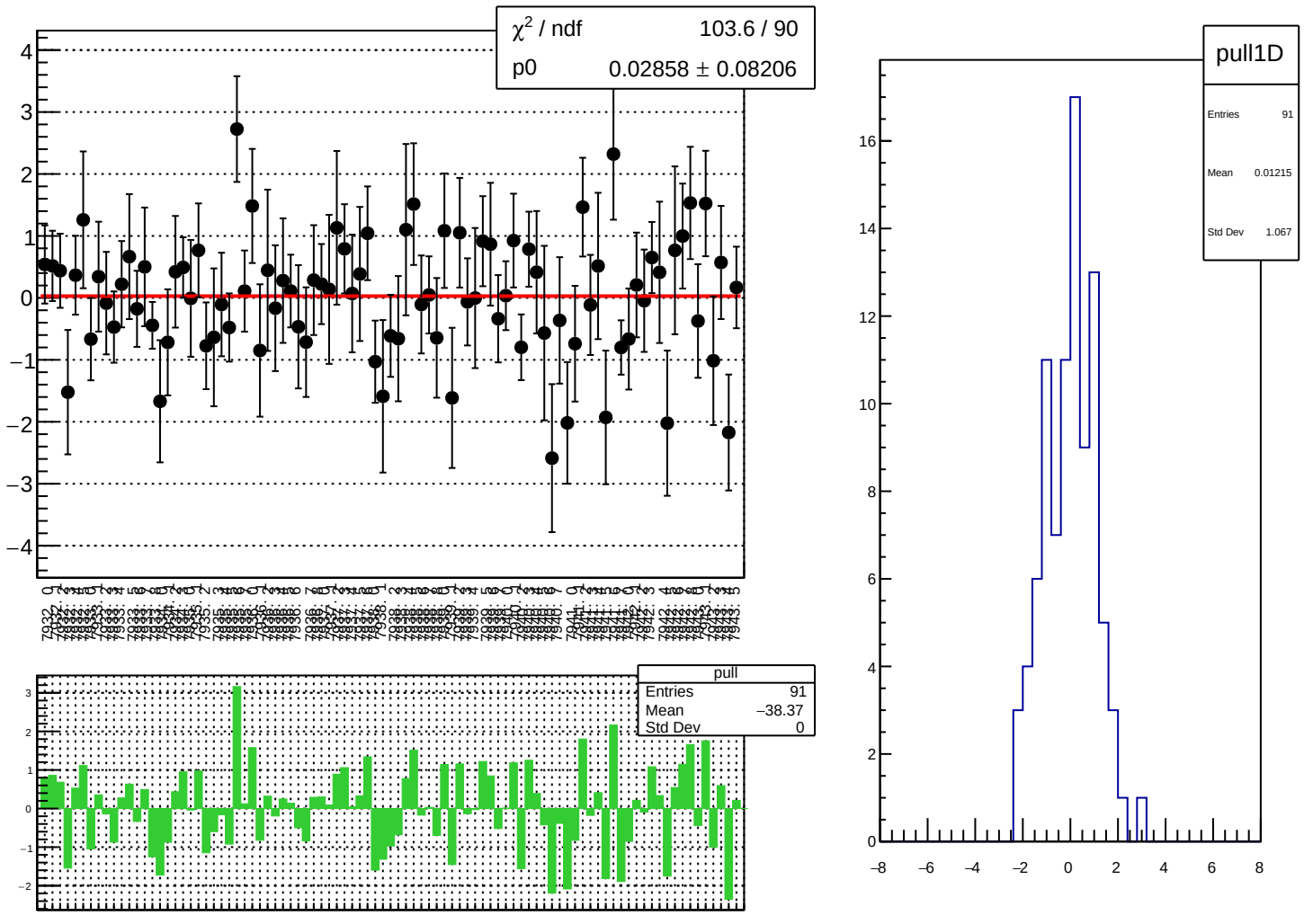

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 86.83 / 90
p0 −224.7 ± 2887
100
50
0
−50
−100
pull
Entries 91
Mean −282
Std Dev 0
2
1
0
−1
−2

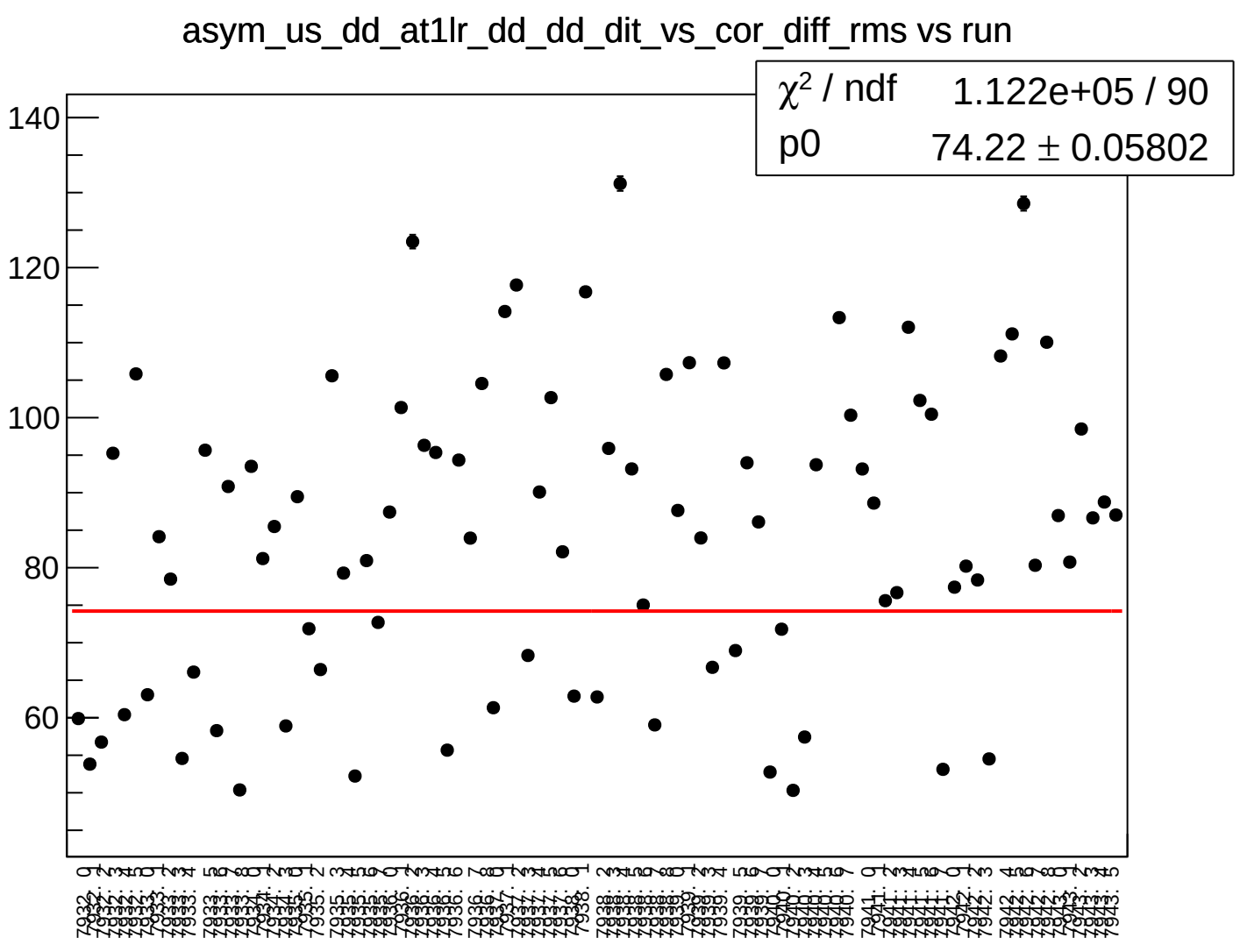

pull1D
Entries 91
Mean 0.003188
Std Dev 0.9768
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

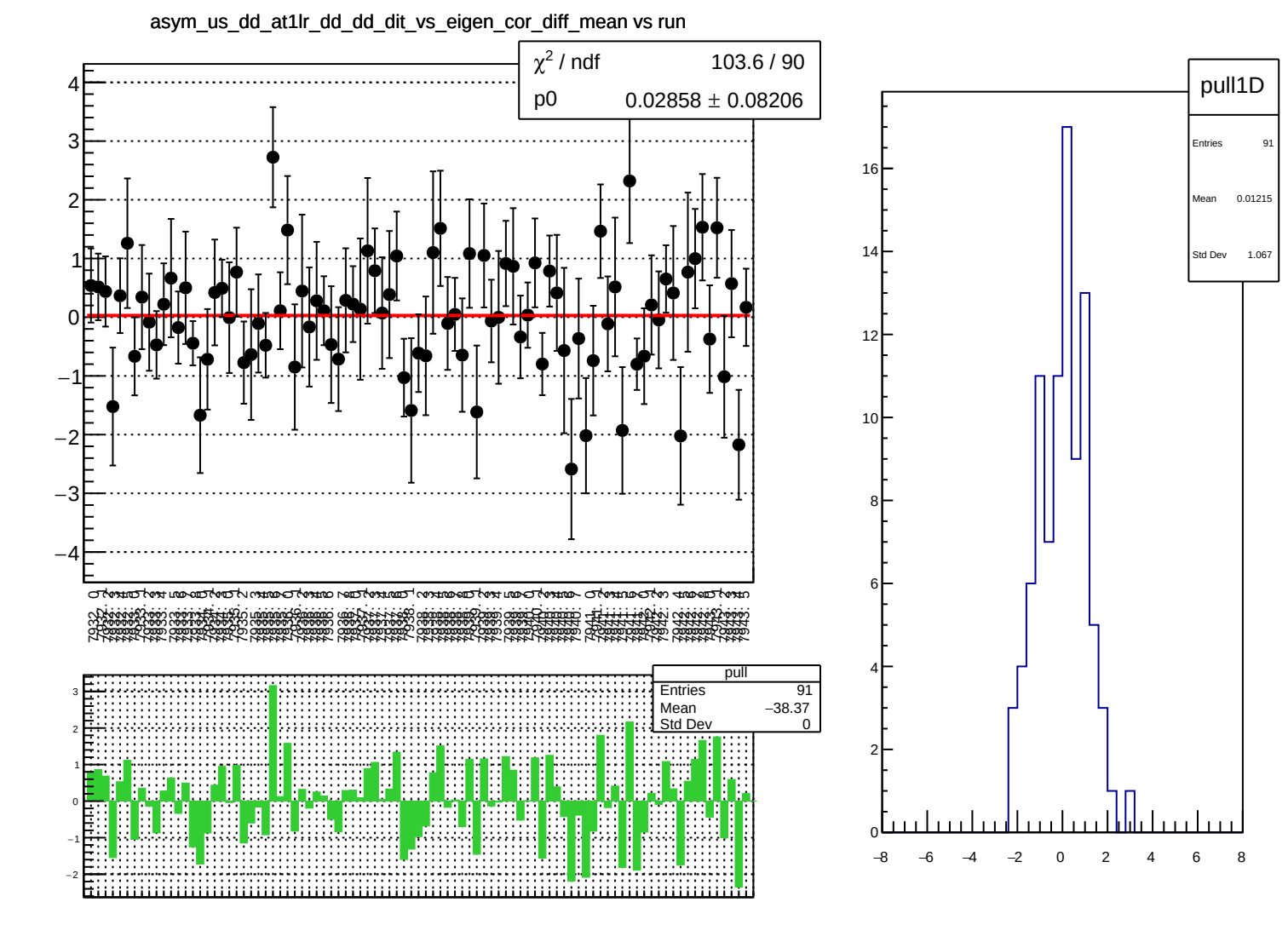

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 592.3 / 90
p0 2699 ± 2.041
2850
2800
2750
2700
2650
2600
2550

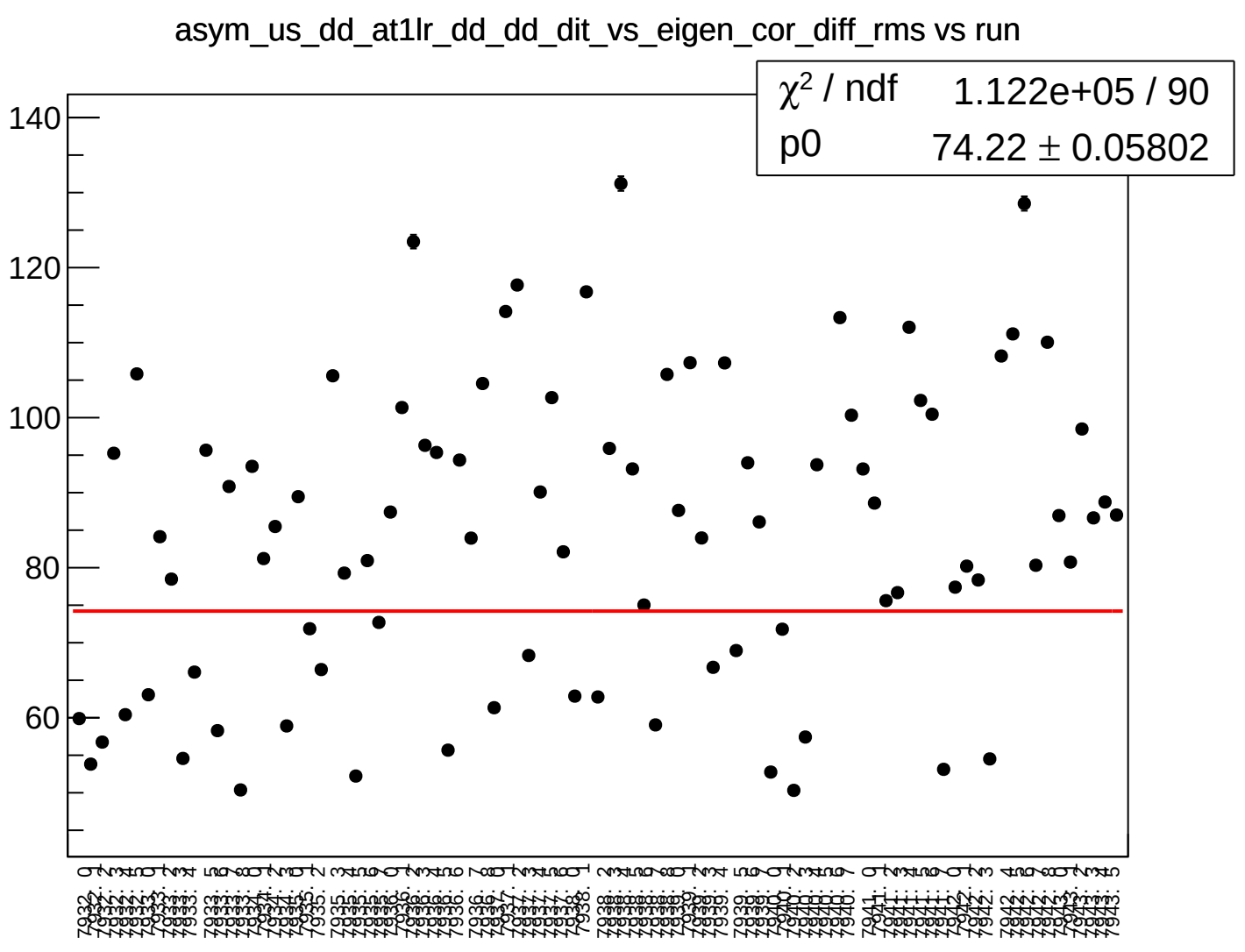

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 90
p0 4.384e−14 ± 4.028e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 91
Mean 74.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.08198
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

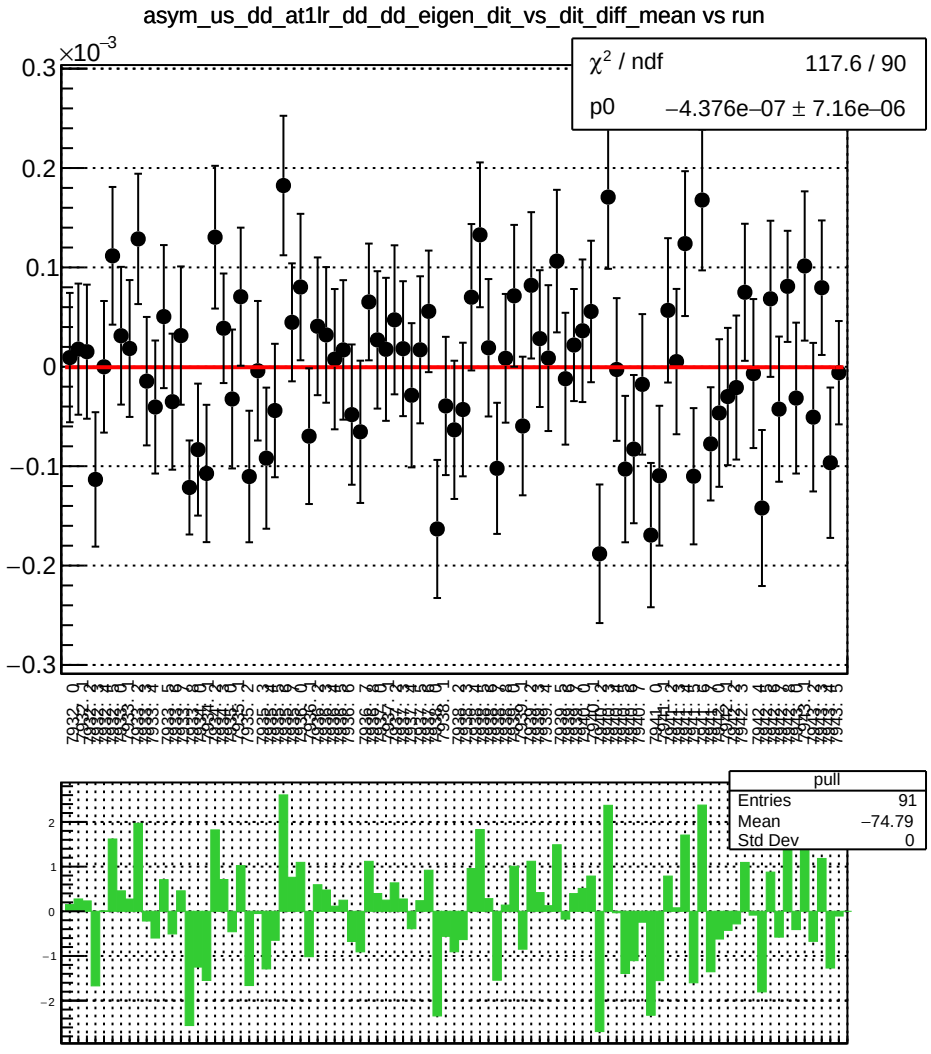

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.174e+05 / 90
p0 2.596e−10 ± 2.848e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

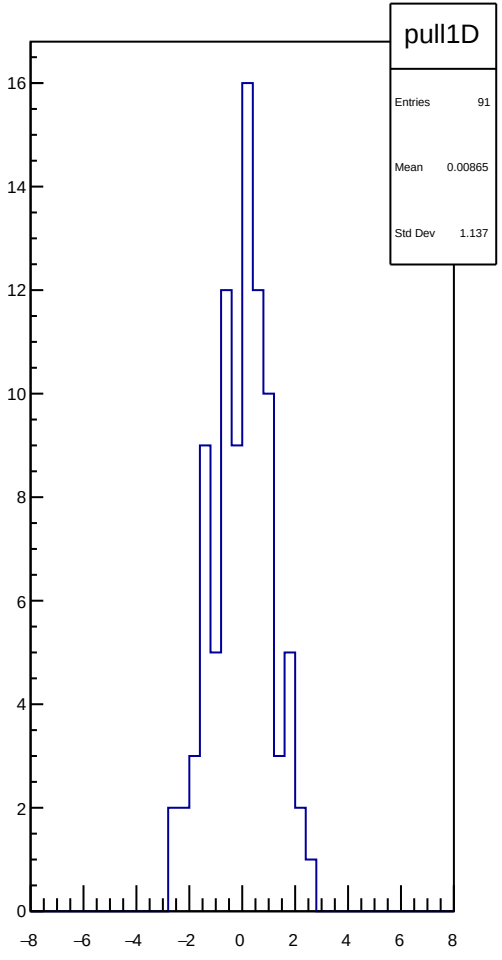

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.02858 ± 0.08206
pull
Entries 91
Mean −38.37
Std Dev 0
pull1D
Entries 91
Mean 0.01215
Std Dev 1.067

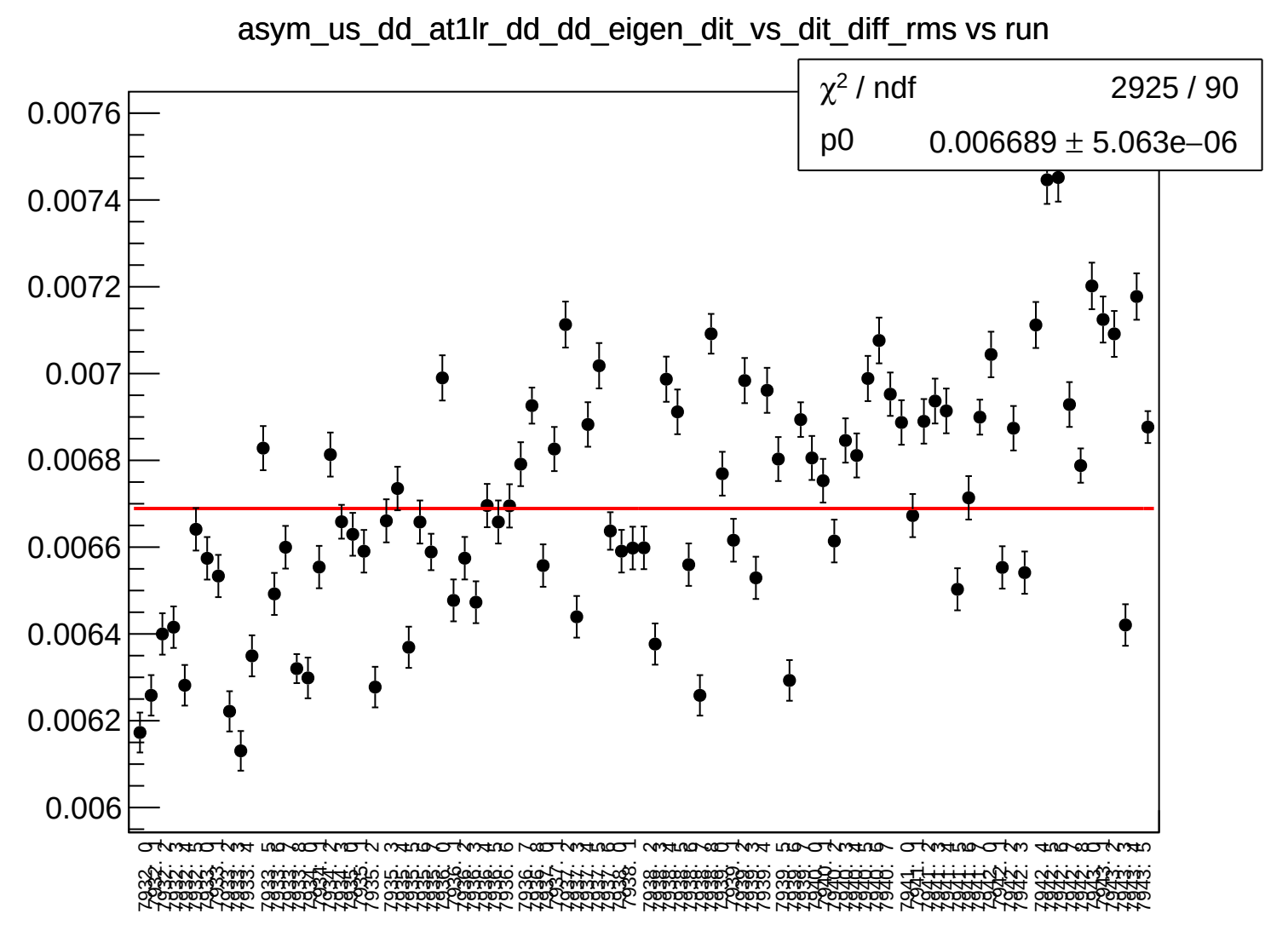

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 90
p0 74.22 ± 0.05802
140
120
100
80
60

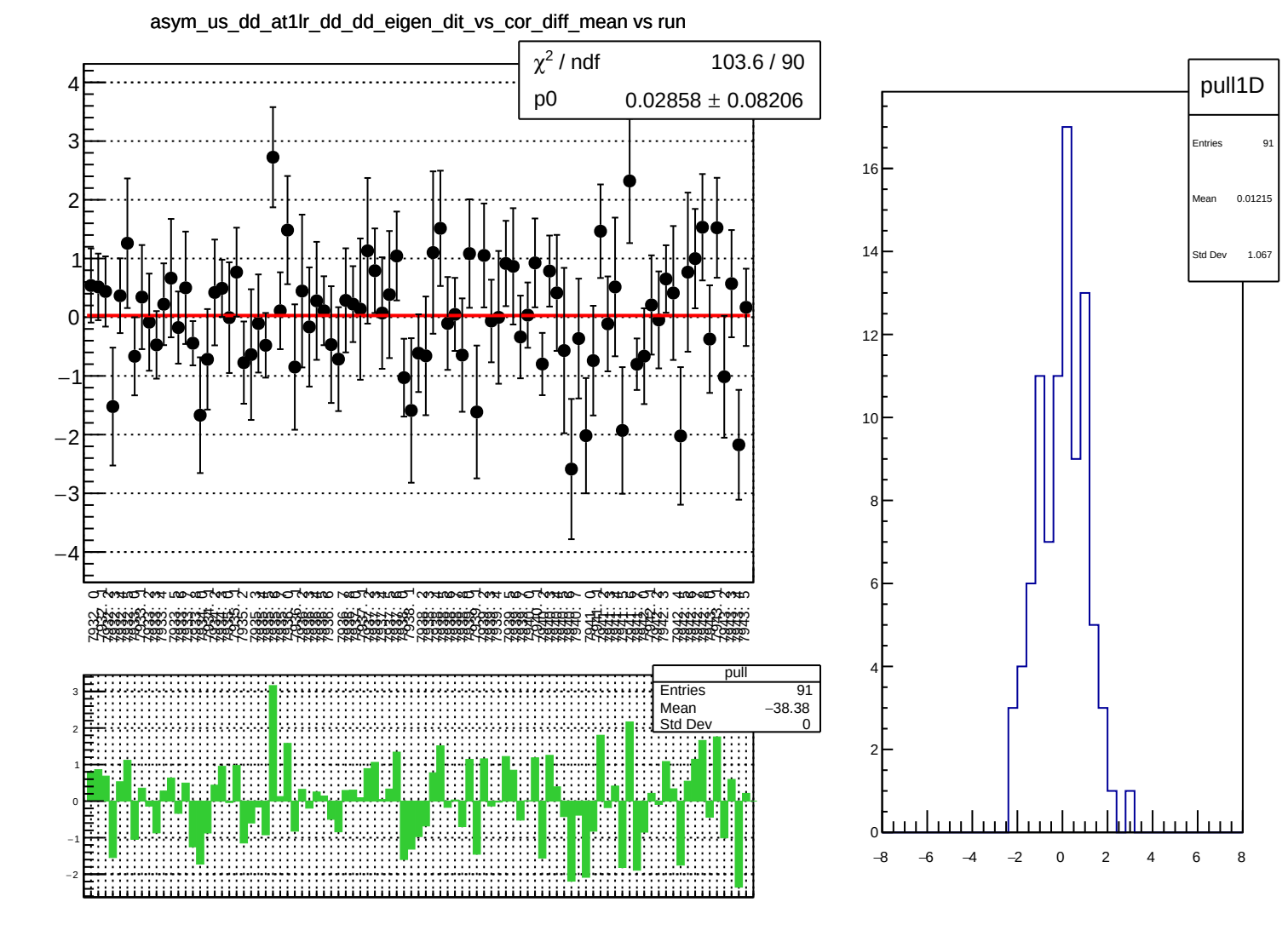

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.02858 ± 0.08206
pull
Entries 91
Mean −38.37
Std Dev 0
pull1D
Entries 91
Mean 0.01215
Std Dev 1.067

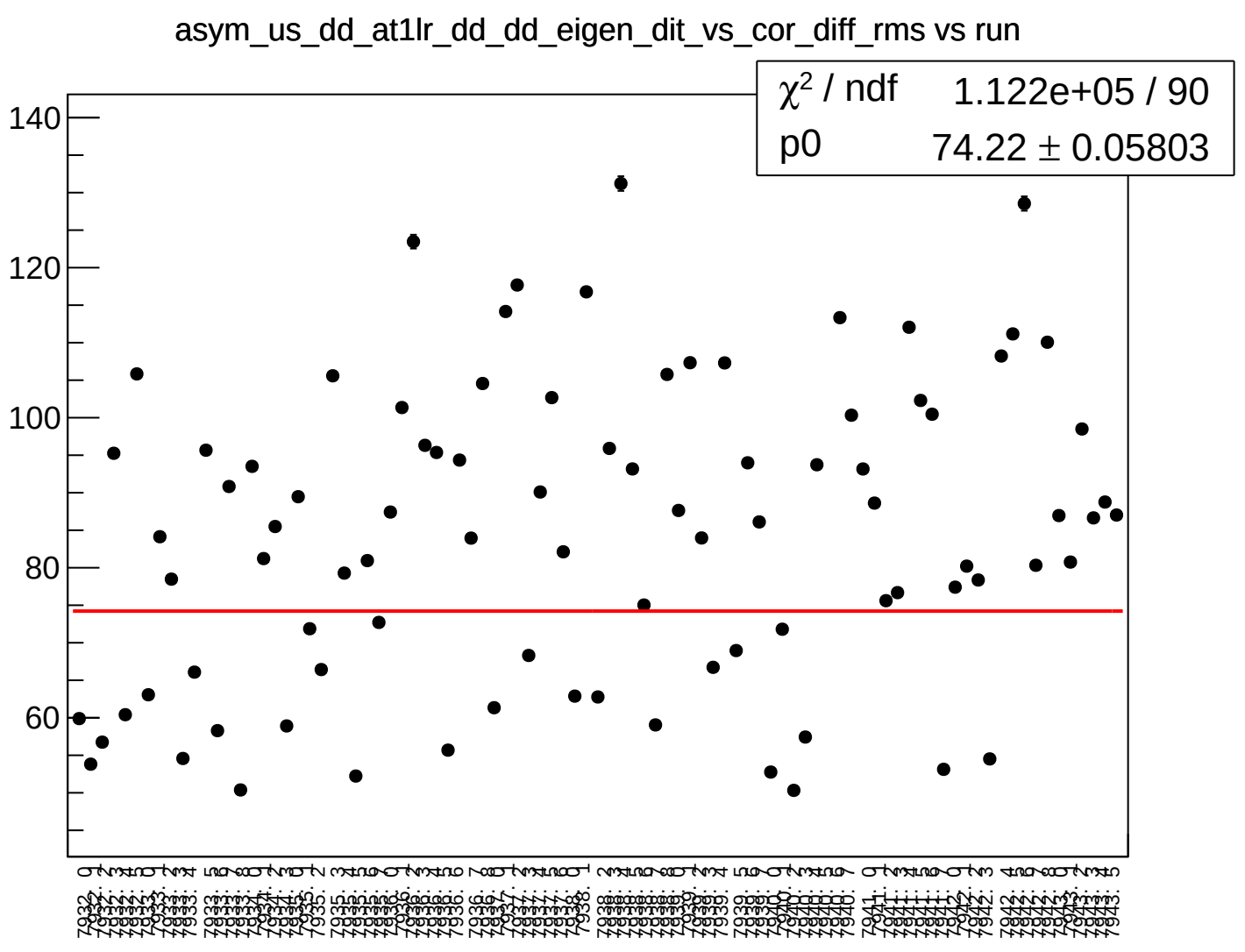

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 90
p0 74.22 ± 0.05802
140
120
100
80
60

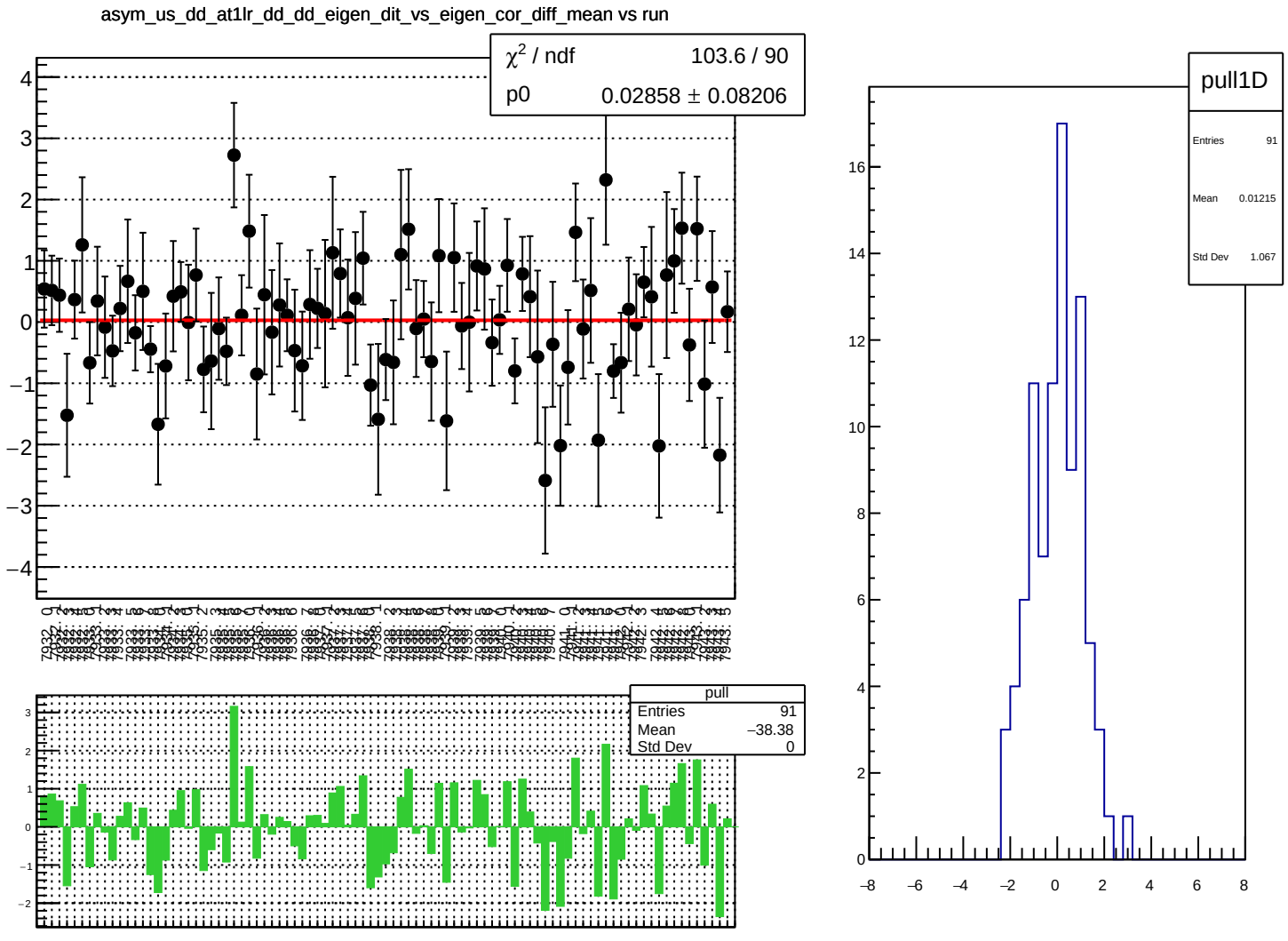

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.6 / 90
p0 −4.376e−07 ± 7.16e−06
pull
Entries 91
Mean −74.79
Std Dev 0

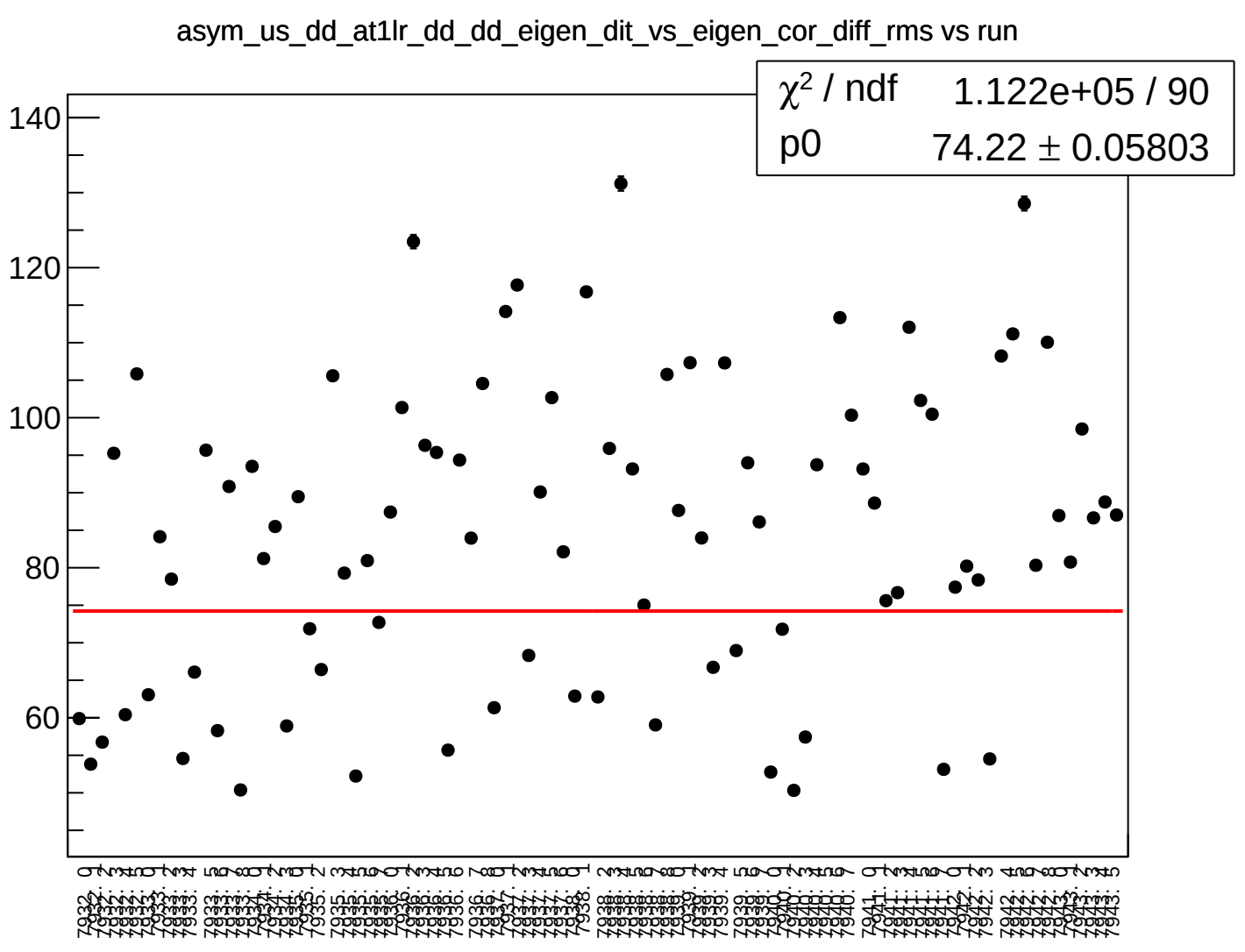

pull1D
Entries 91
Mean 0.00865
Std Dev 1.137

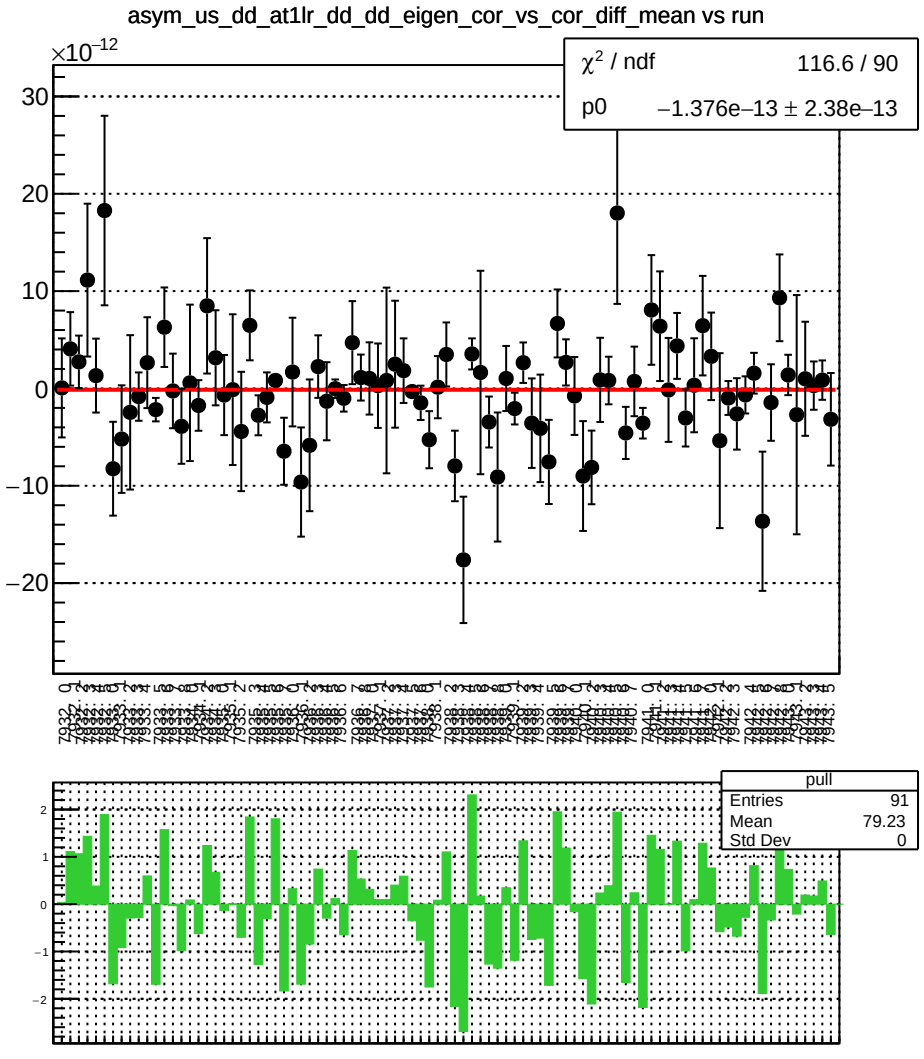

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2925 / 90
p0 0.006689 ± 5.063e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

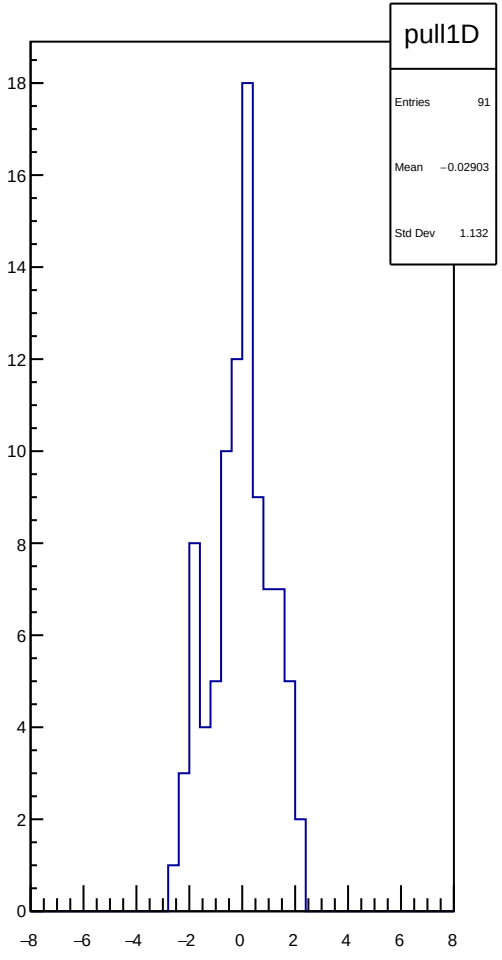

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.02858 ± 0.08206
pull
Entries 91
Mean −38.38
Std Dev 0
pull1D
Entries 91
Mean 0.01215
Std Dev 1.067

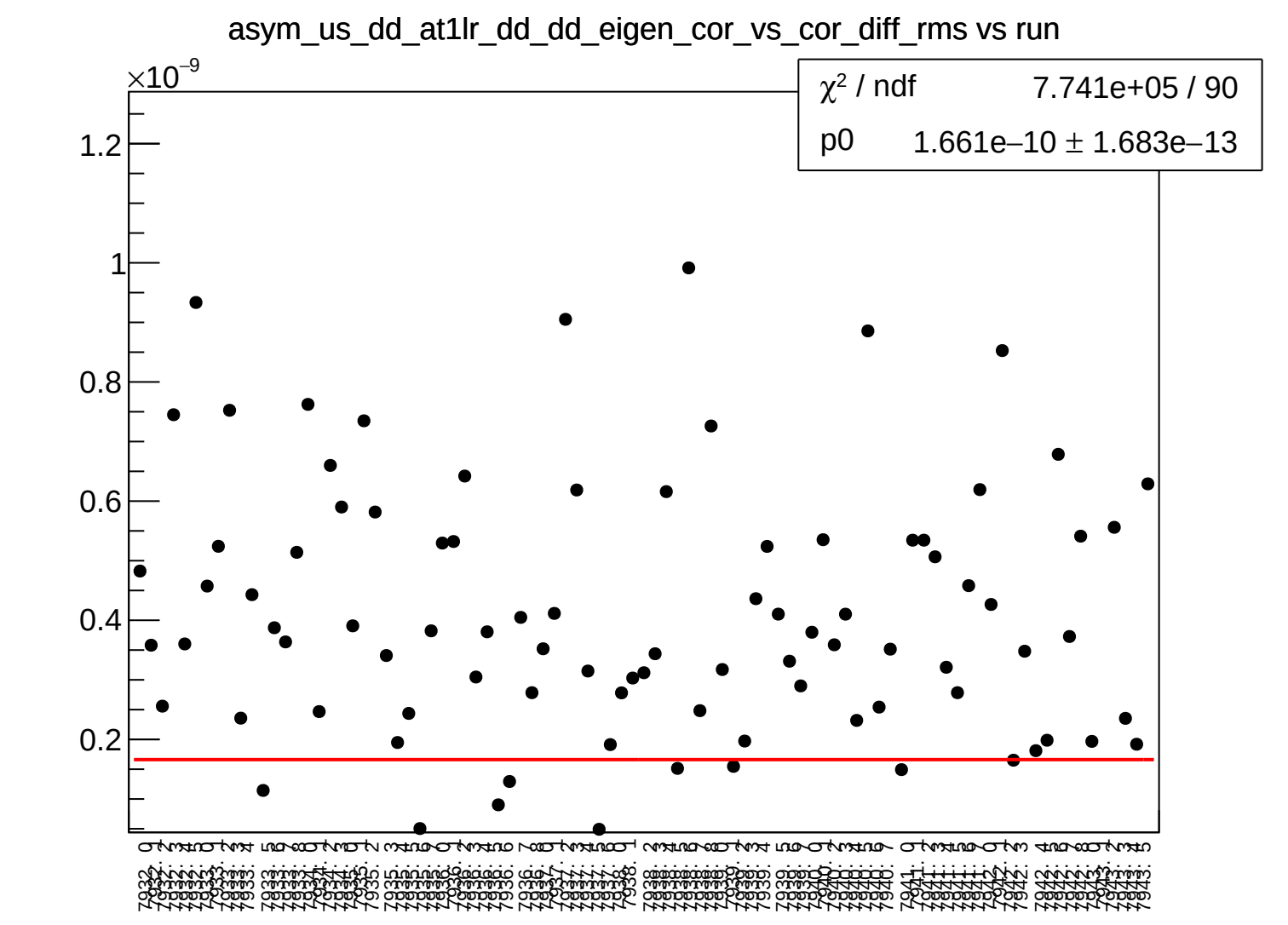

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 90
p0 74.22 ± 0.05803
140
120
100
80
60

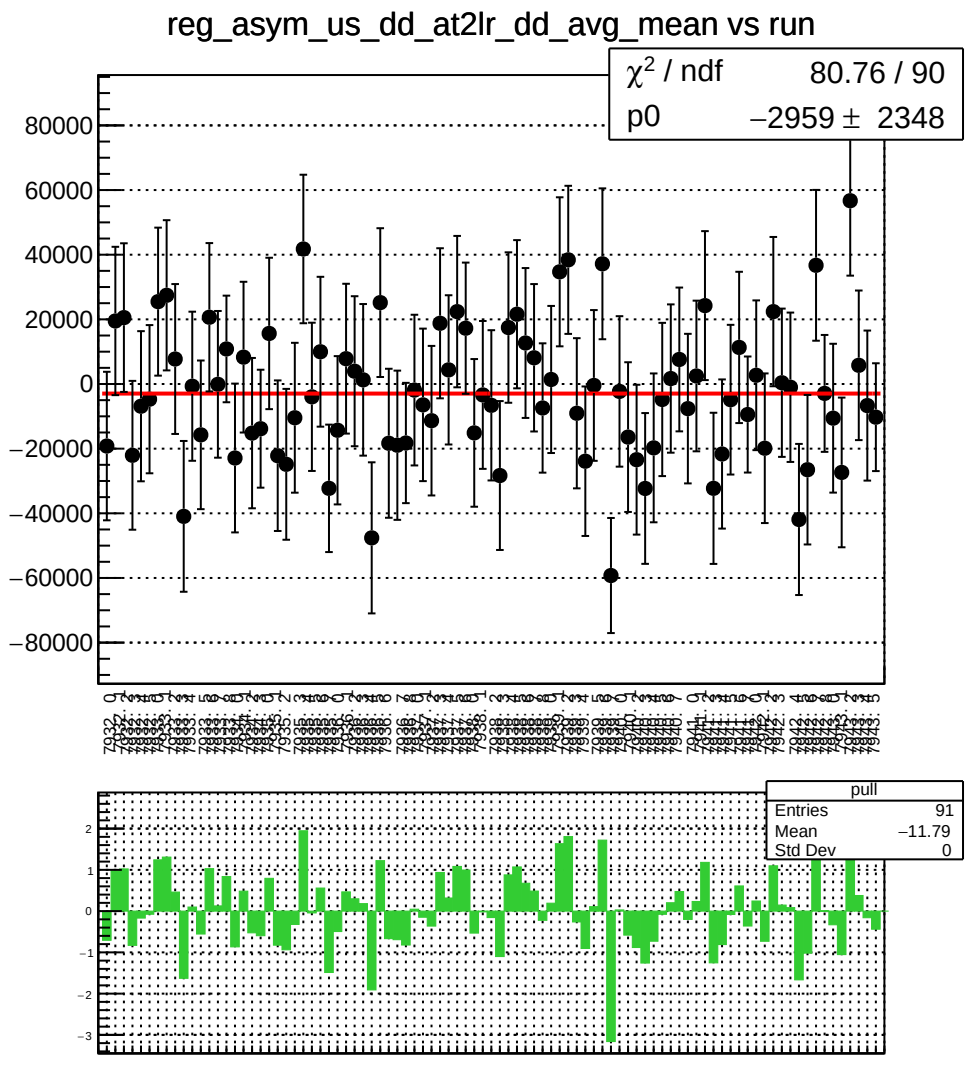

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.02858 ± 0.08206
pull
Entries 91
Mean −38.38
Std Dev 0
pull1D
Entries 91
Mean 0.01215
Std Dev 1.067

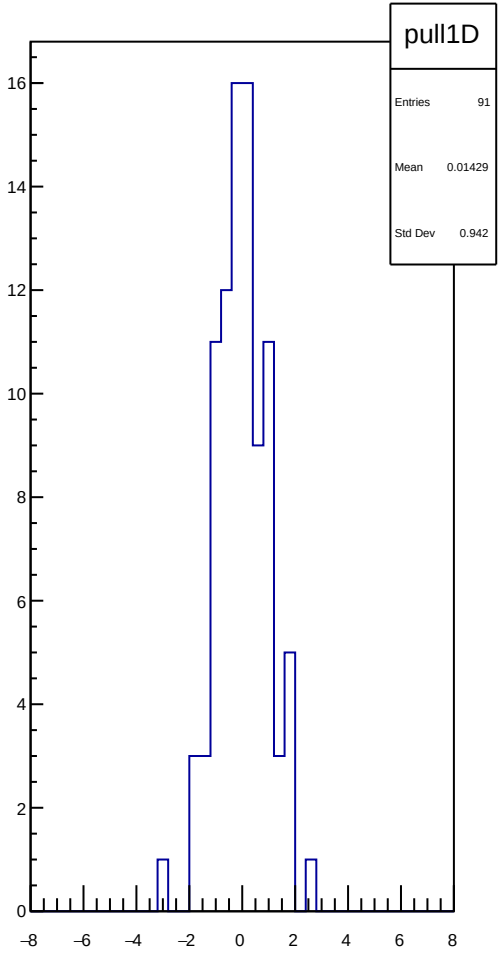

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 90
p0 74.22 ± 0.05803
140
120
100
80
60

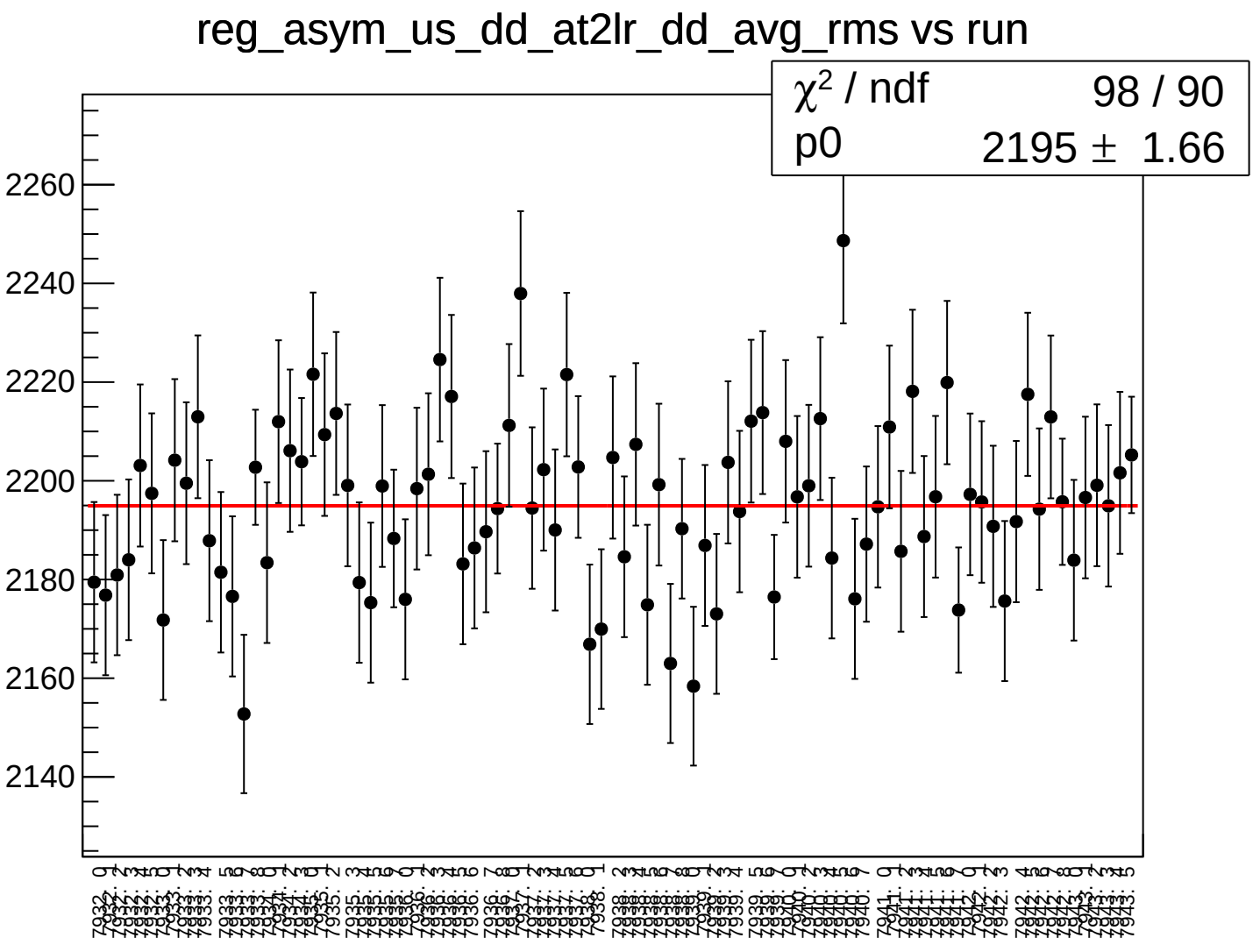

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.6 / 90
p0 −1.376e−13 ± 2.38e−13
pull
Entries 91
Mean 79.23
Std Dev 0

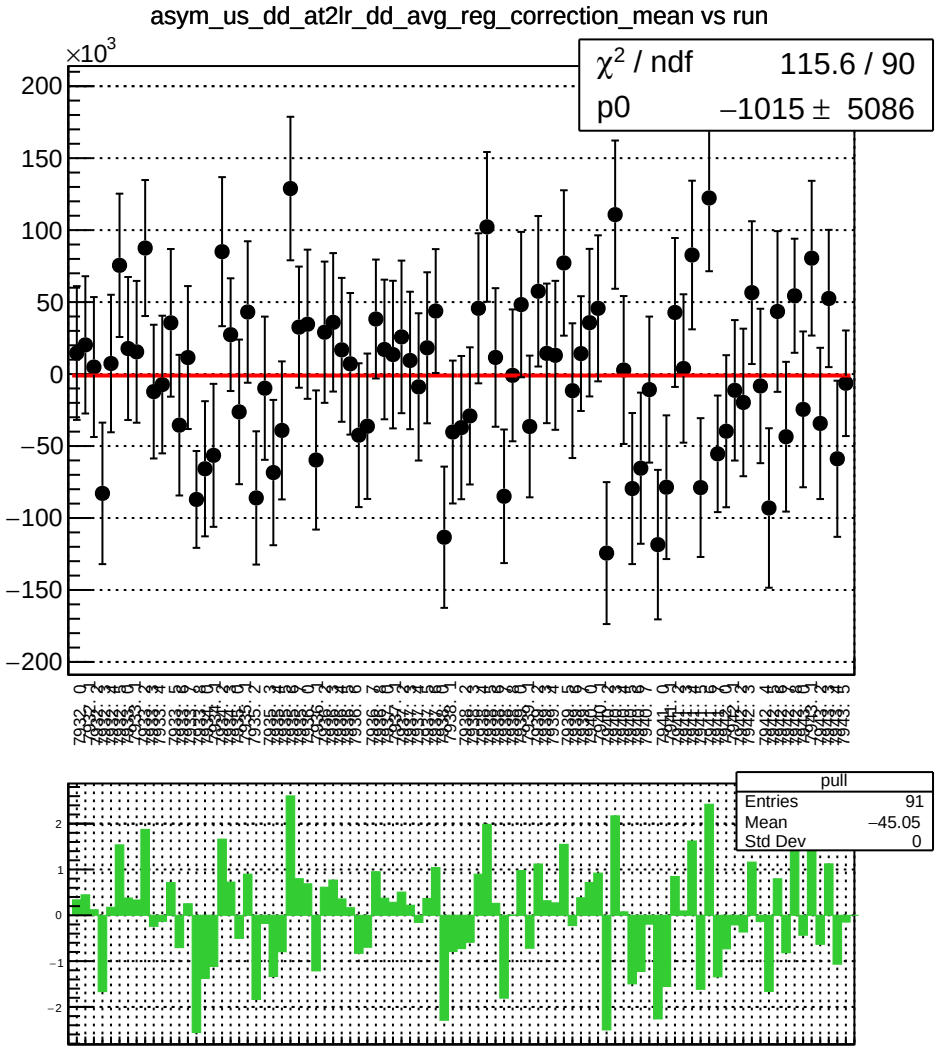

pull1D
Entries 91
Mean −0.02903
Std Dev 1.132

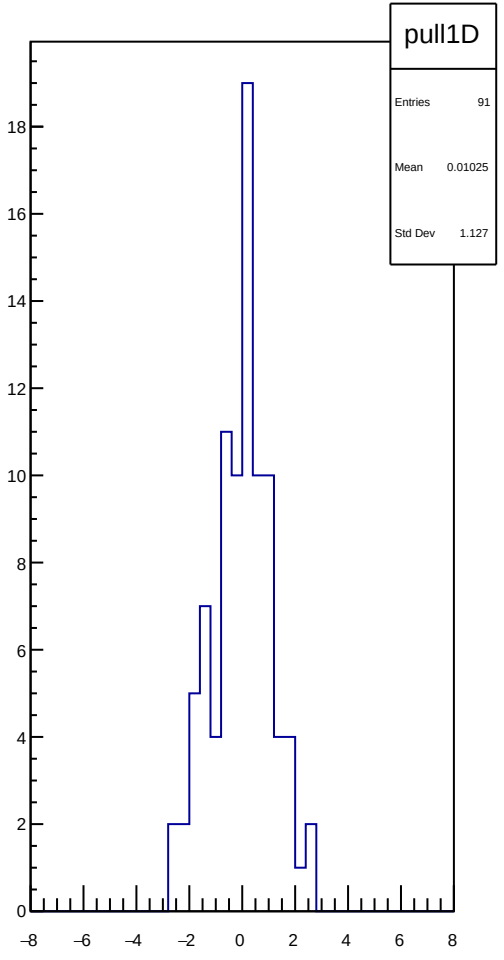

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.741e+05 / 90
p0 1.661e−10 ± 1.683e−13
1.2
1
0.8
0.6
0.4
0.2

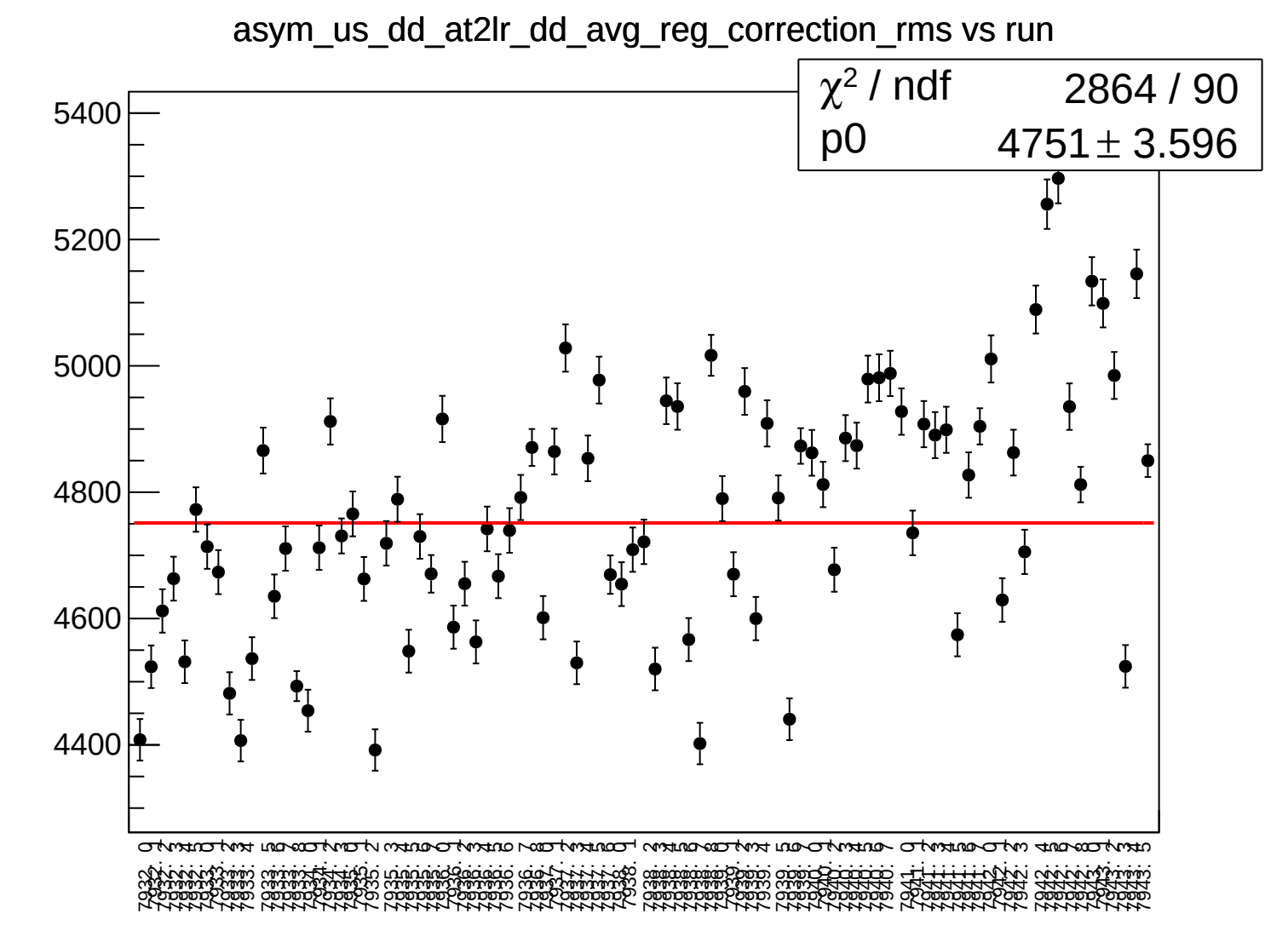

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.76 / 90
p0 −2959 ± 2348
pull
Entries 91
Mean −11.79
Std Dev 0

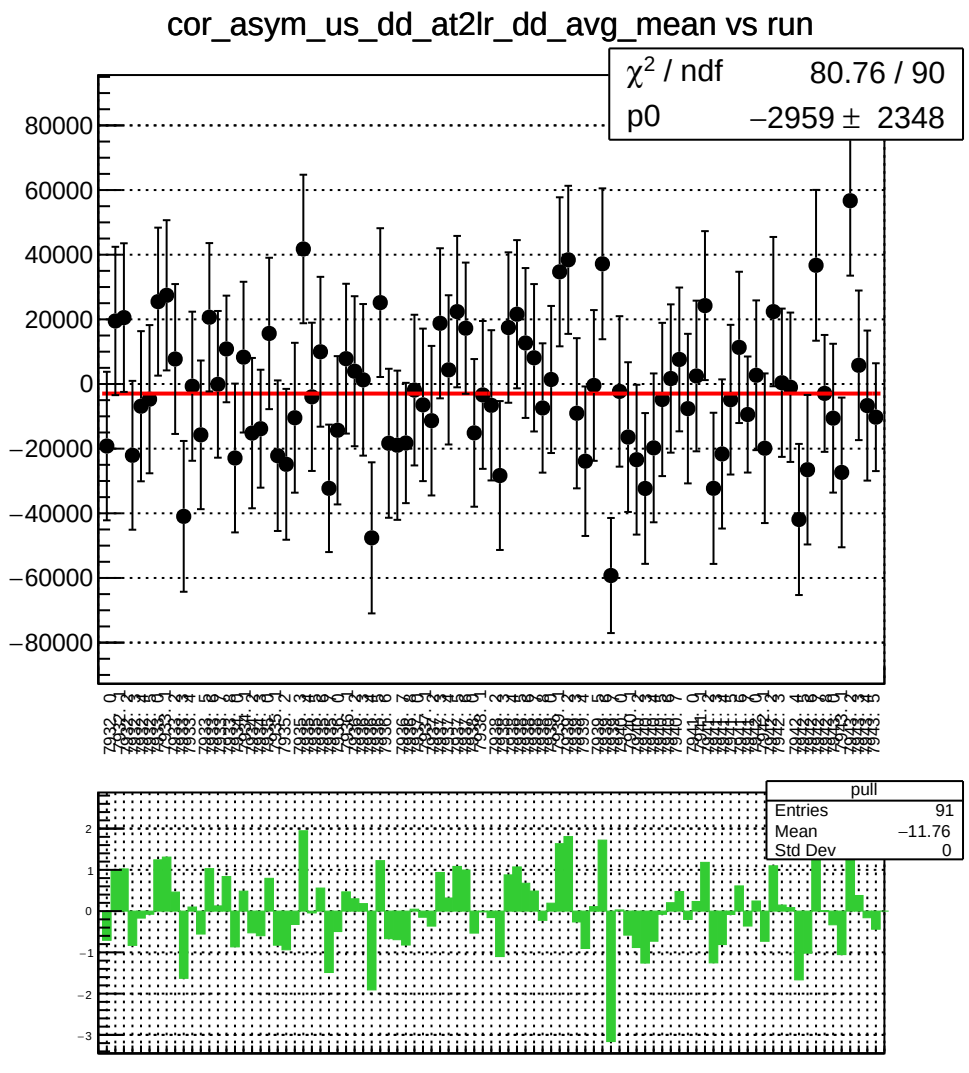

pull1D
Entries 91
Mean 0.01429
Std Dev 0.942

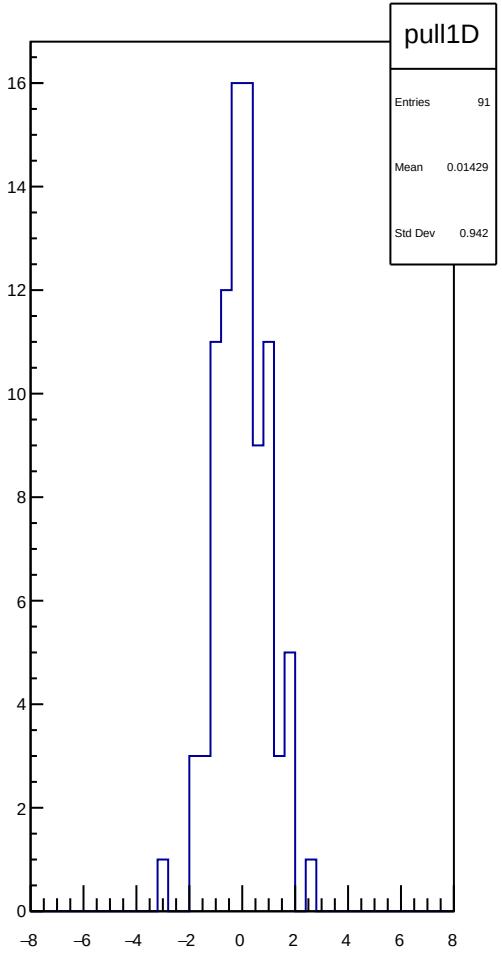

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 98 / 90
p0 2195 ± 1.66
2260
2240
2220
2200
2180
2160
2140

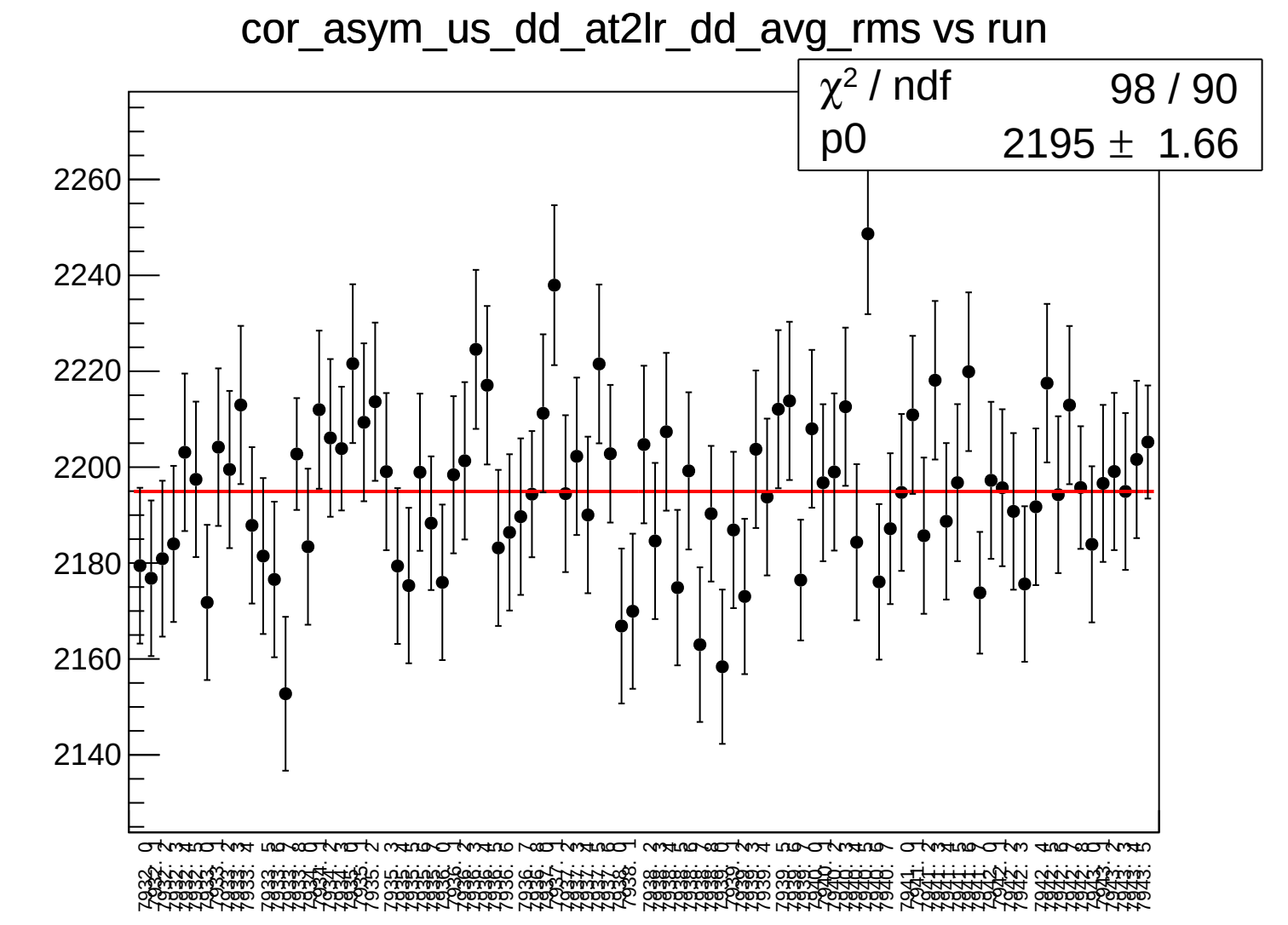

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 115.6 / 90
p0 −1015 ± 5086
pull
Entries 91
Mean −45.05
Std Dev 0

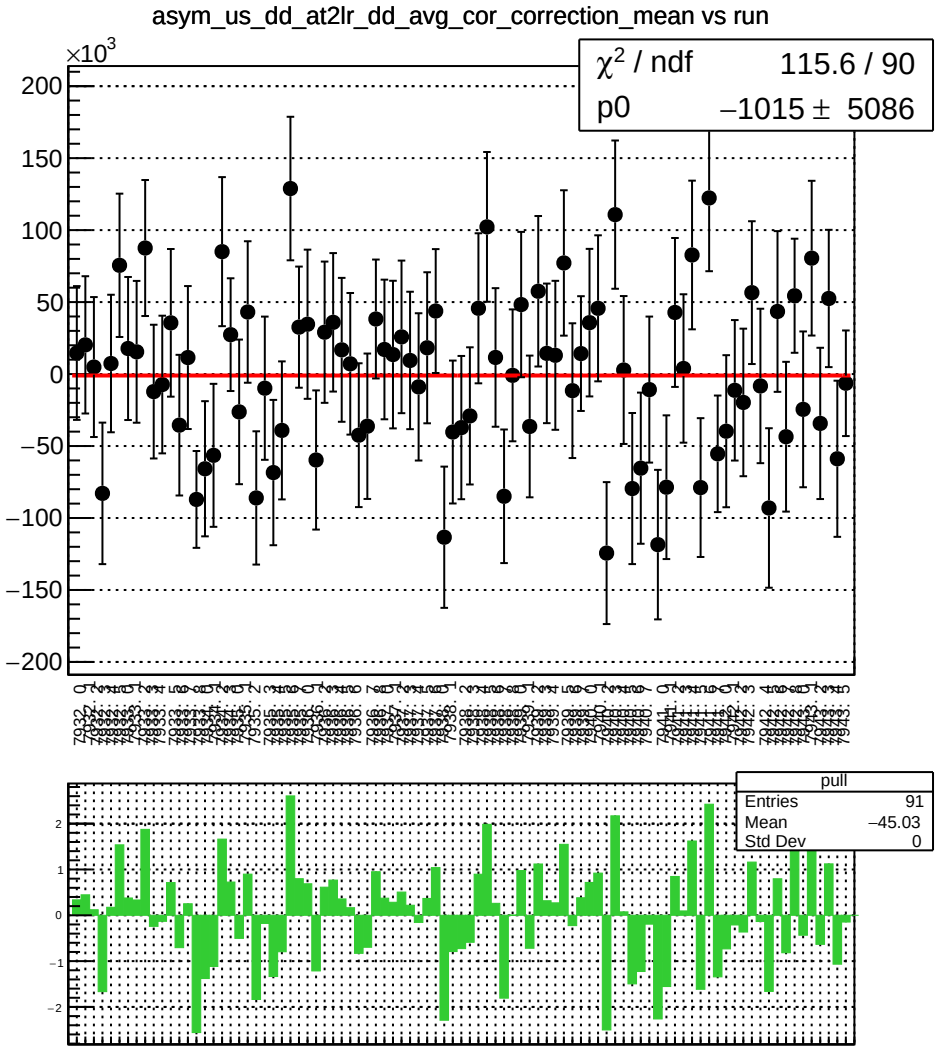

pull1D
Entries 91
Mean 0.01025
Std Dev 1.127

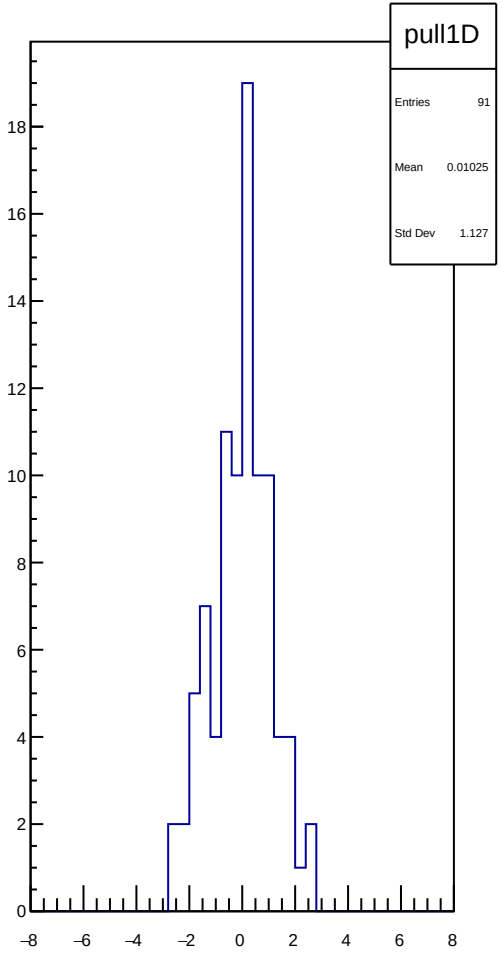

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2864 / 90
p0 4751 ± 3.596
5400
5200
5000
4800
4600
4400

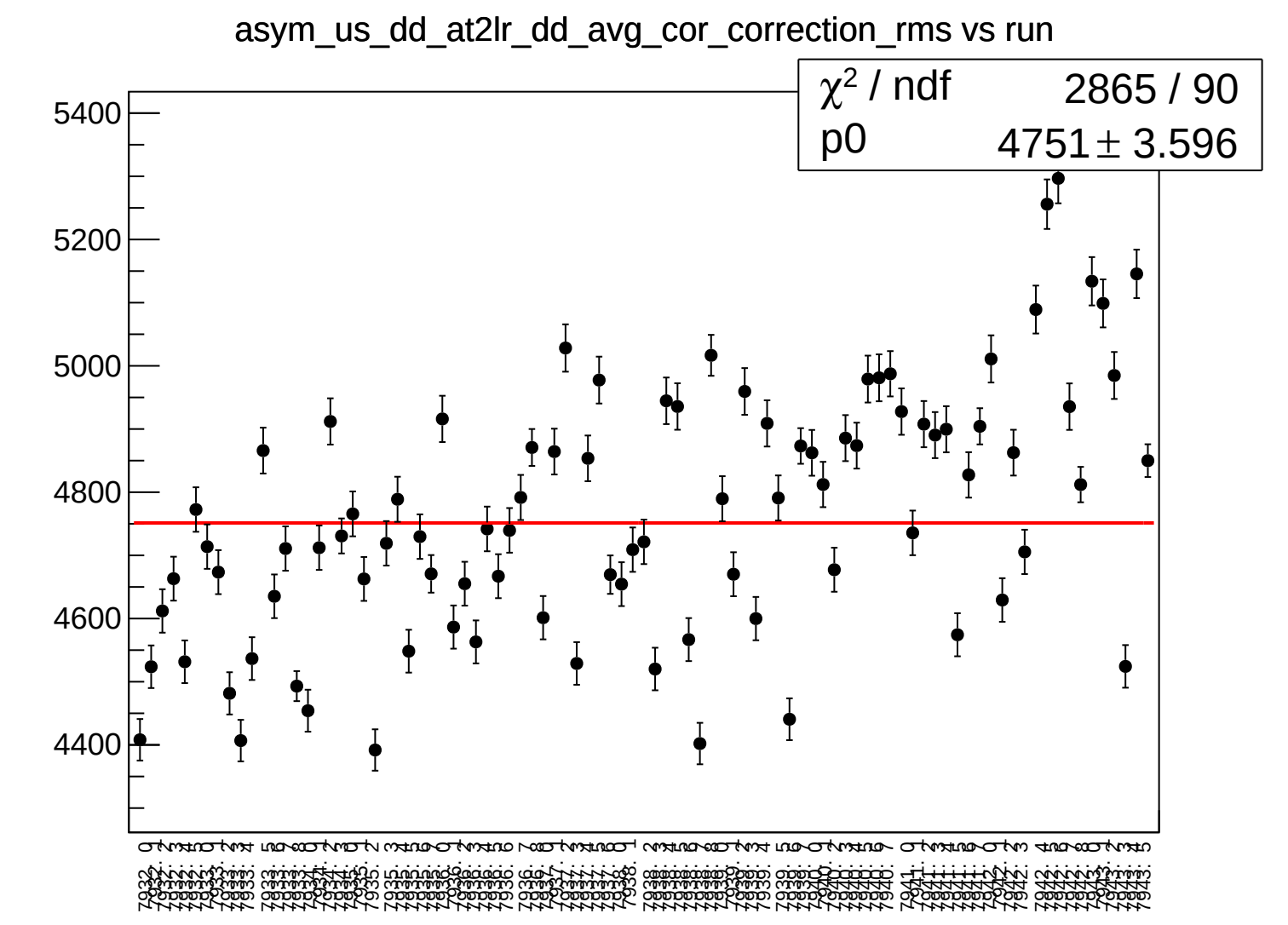

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.76 / 90
p0 −2959 ± 2348
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −11.76
Std Dev 0
2
1
0
−1
−2
−3

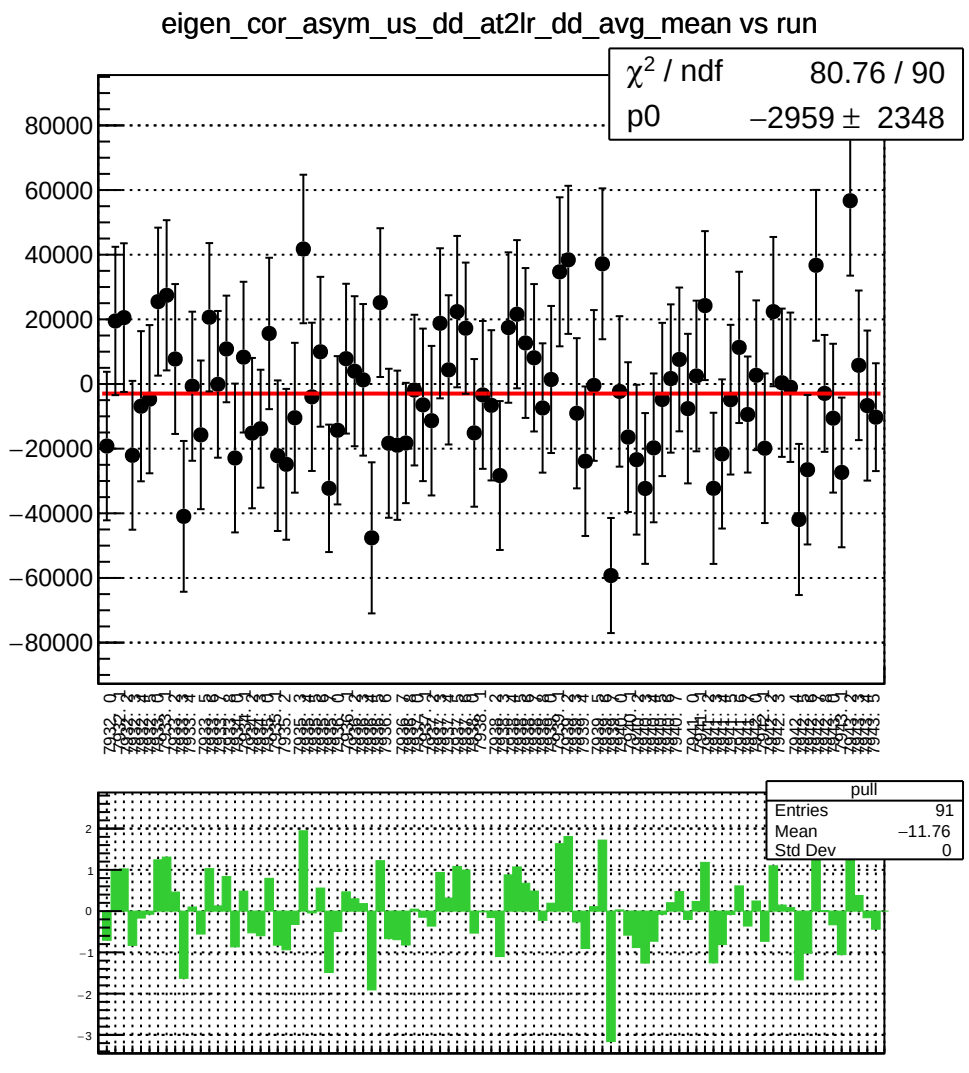

pull1D
Entries 91
Mean 0.01429
Std Dev 0.942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

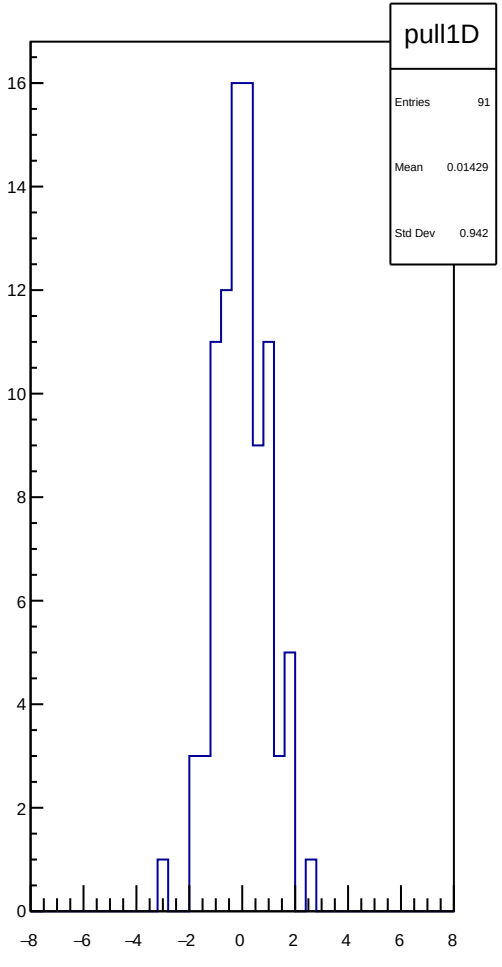

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 98 / 90
p0 2195 ± 1.66
2260
2240
2220
2200
2180
2160
2140

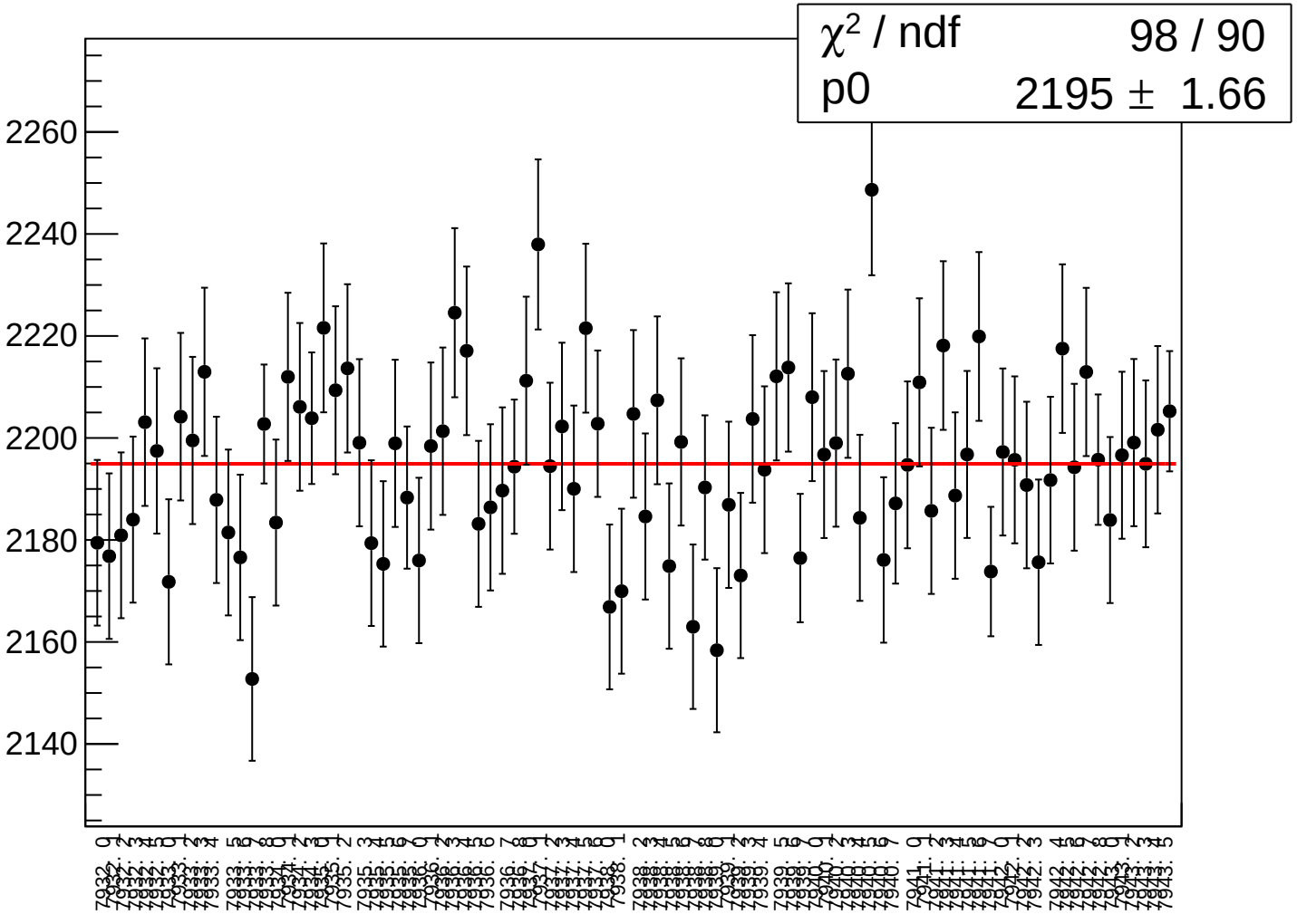

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 115.6 / 90
p0 −1015 ± 5086
pull
Entries 91
Mean −45.03
Std Dev 0

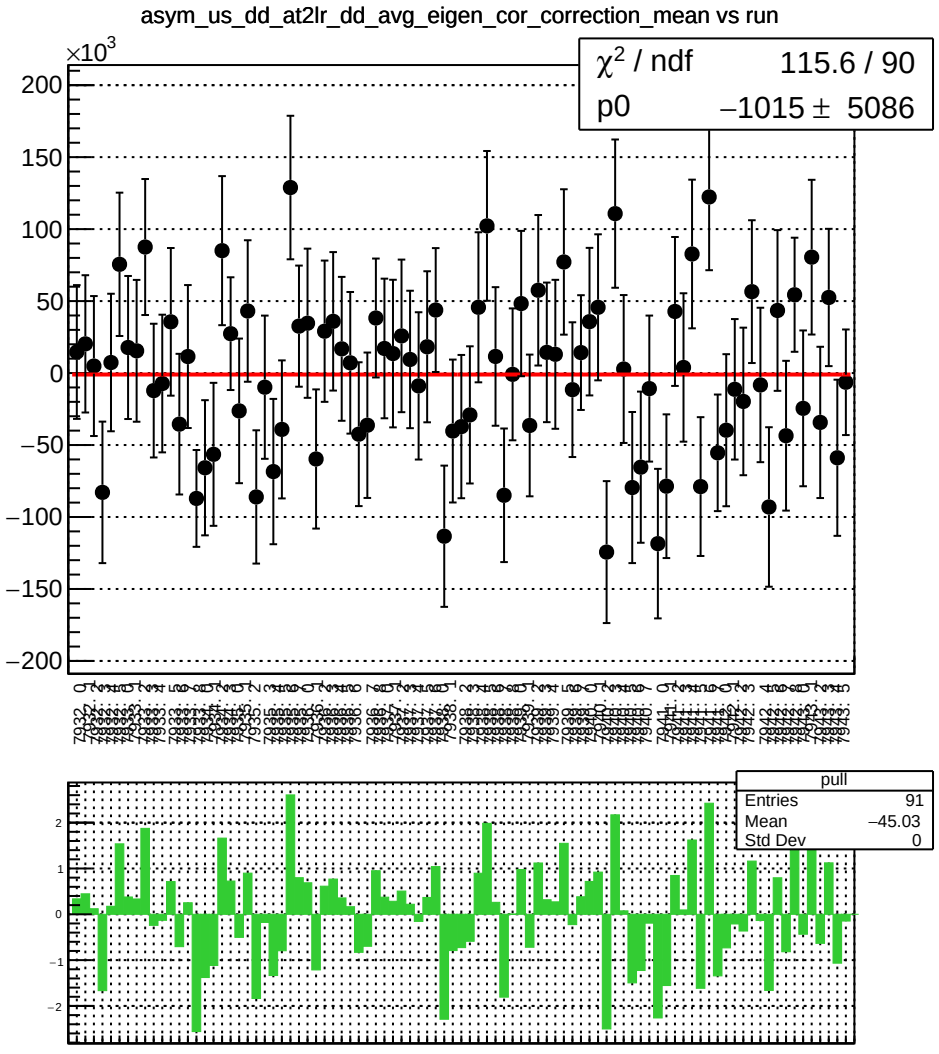

pull1D
Entries 91
Mean 0.01025
Std Dev 1.127

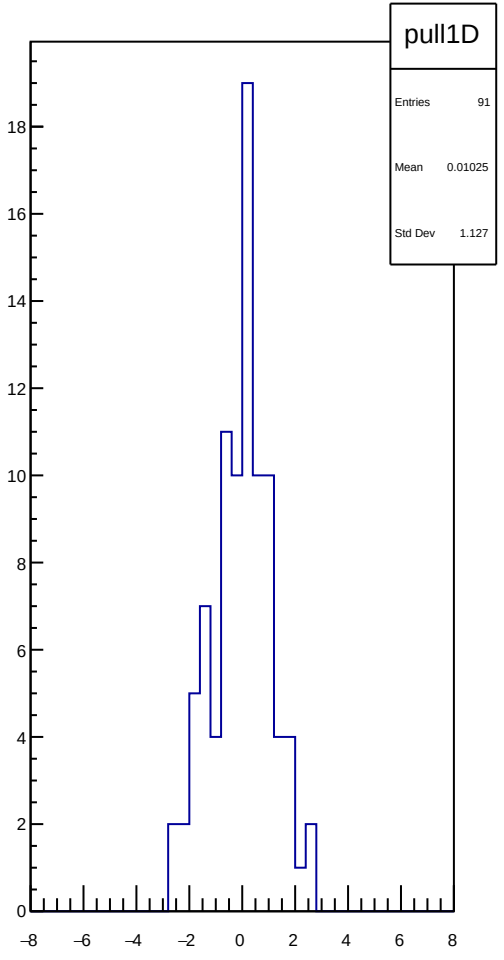

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 2865 / 90
p0 4751 ± 3.596
5400
5200
5000
4800
4600
4400

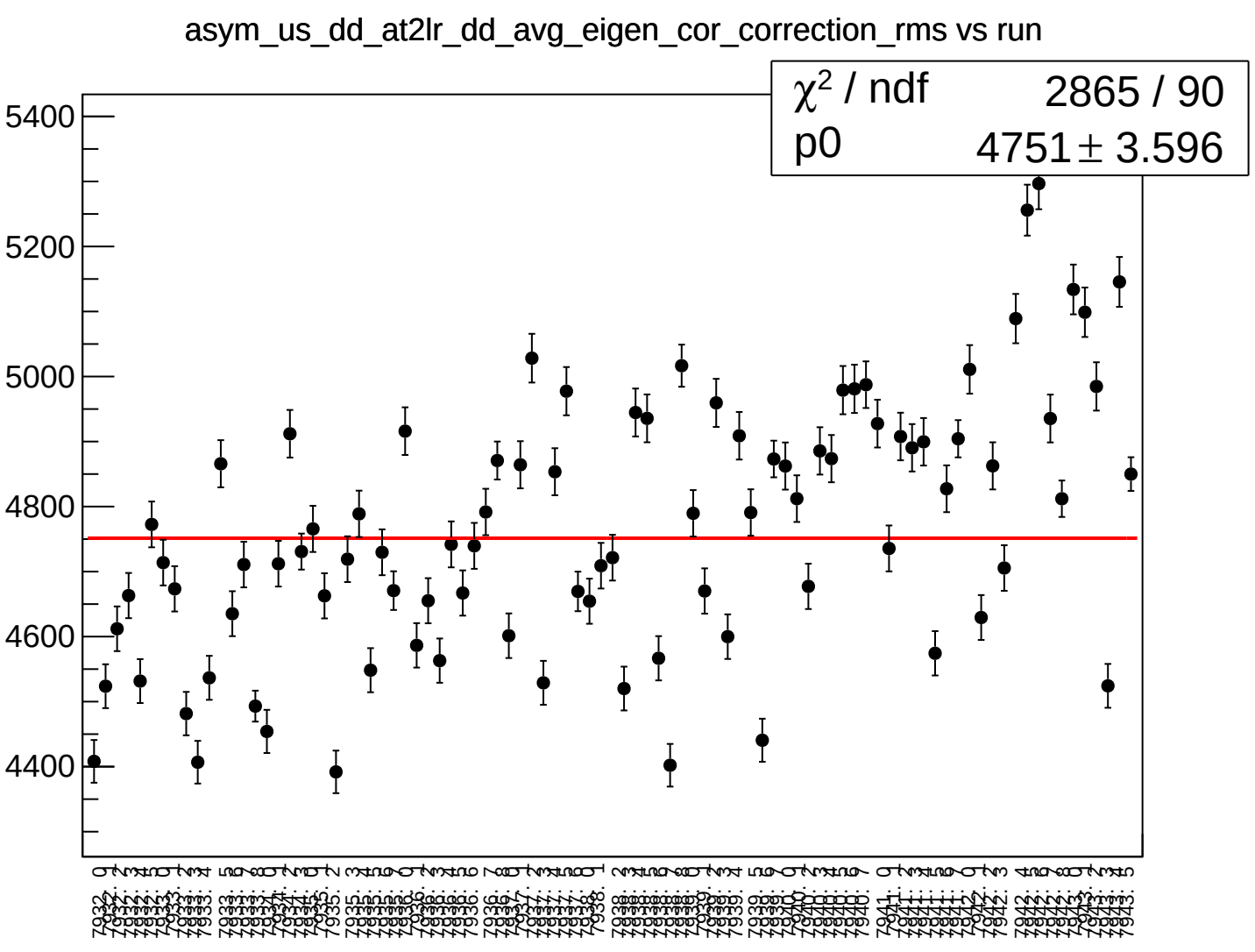

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.76 / 90
p0 −2959 ± 2348
pull
Entries 91
Mean −11.76
Std Dev 0

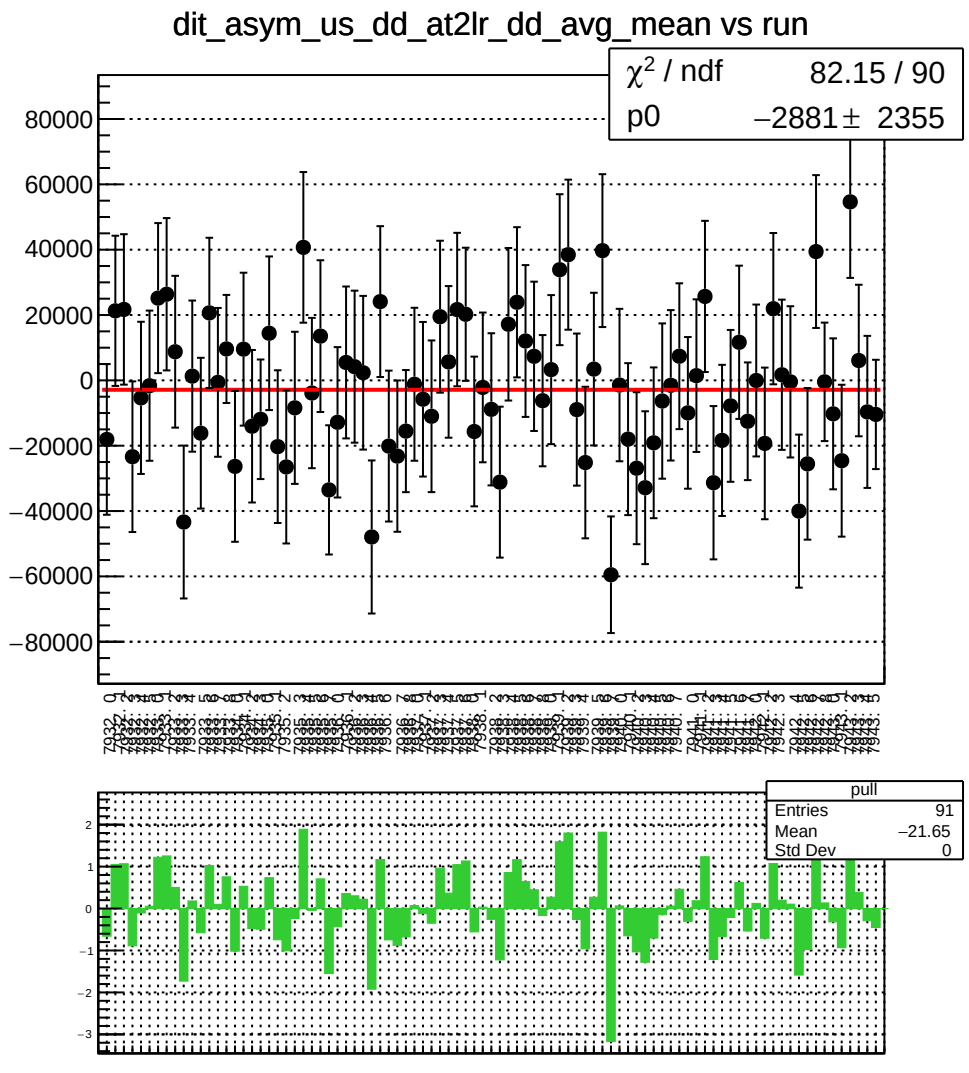

pull1D
Entries 91
Mean 0.01429
Std Dev 0.942

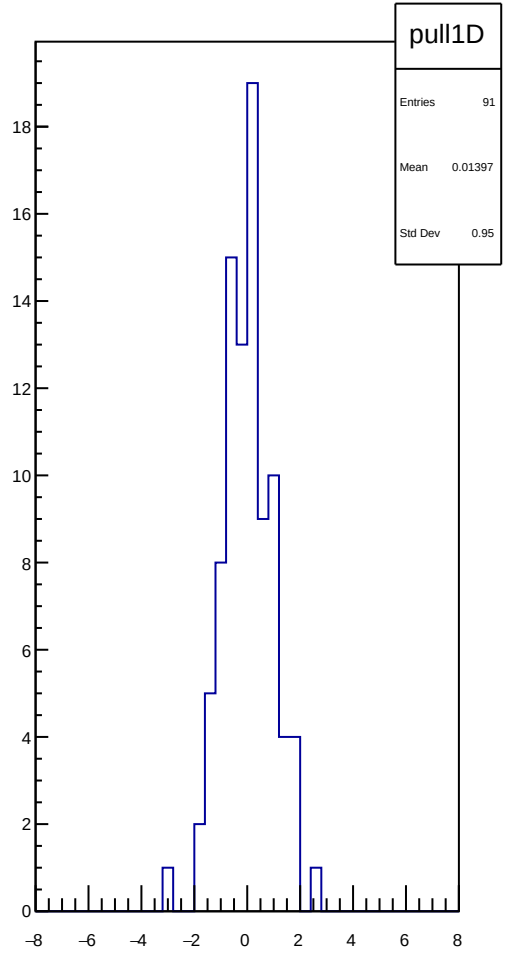

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 98 / 90
p0 2195 ± 1.66
2260
2240
2220
2200
2180
2160
2140

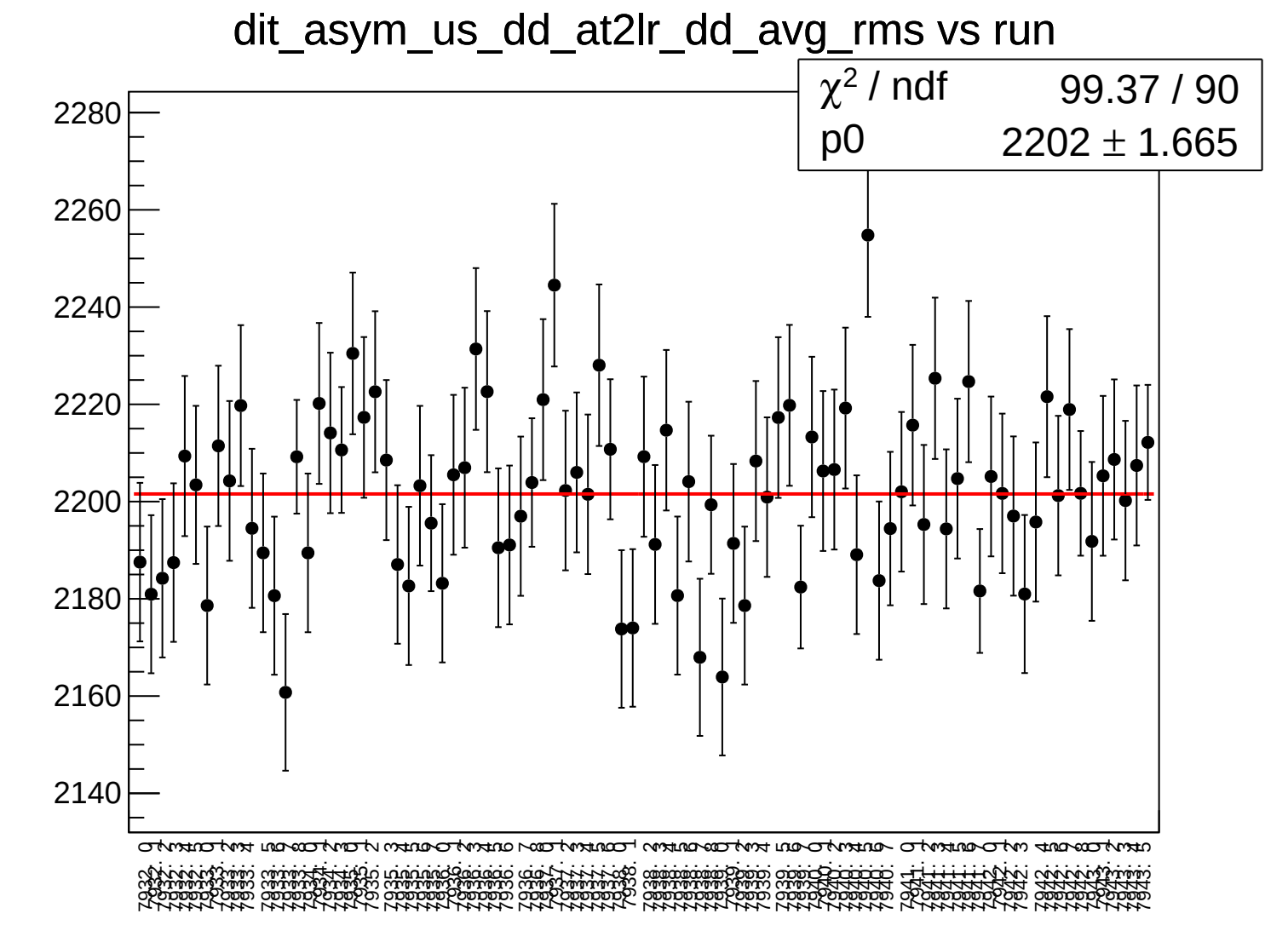

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 115.6 / 90
p0 −1015 ± 5086
pull
Entries 91
Mean −45.03
Std Dev 0

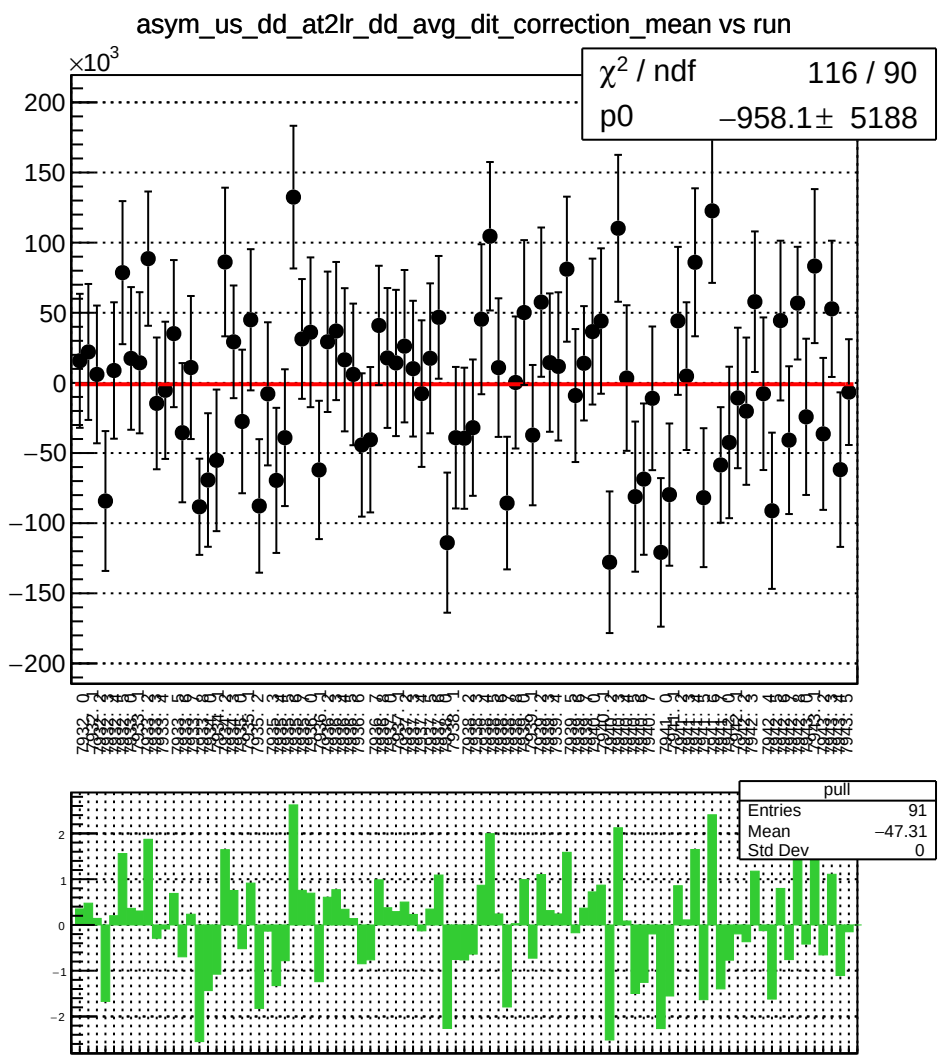

pull1D
Entries 91
Mean 0.01025
Std Dev 1.127

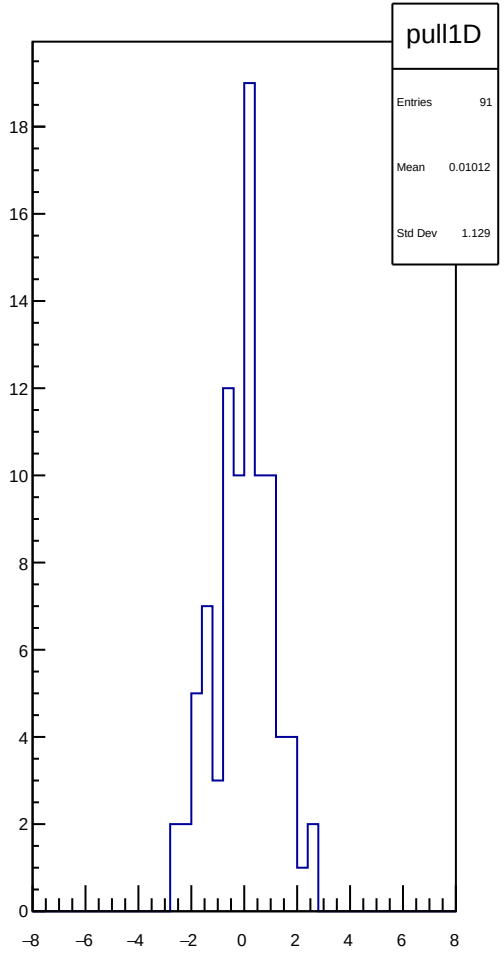

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2865 / 90
p0 4751 ± 3.596
5400
5200
5000
4800
4600
4400

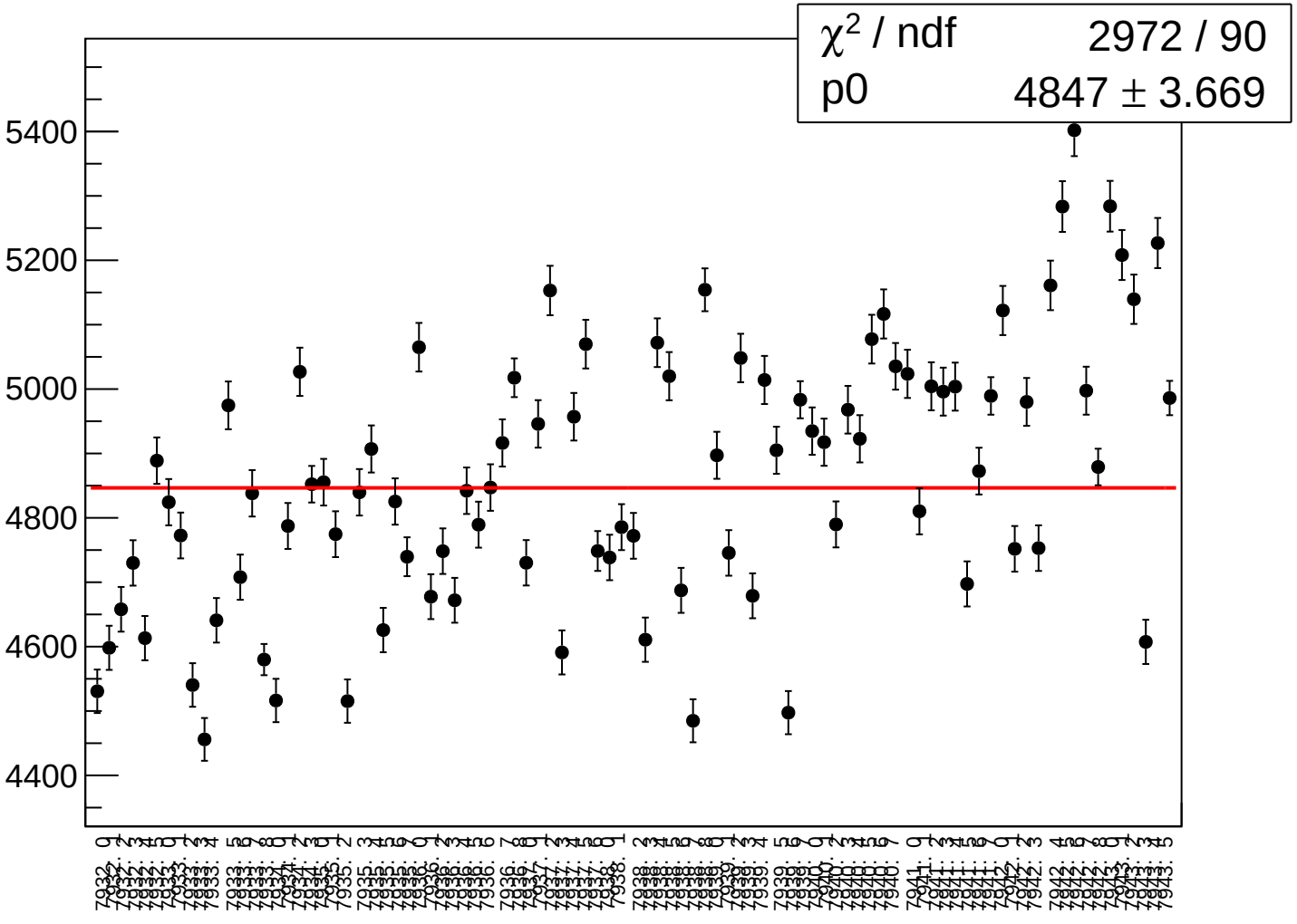

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 82.15 / 90
p0 −2881 ± 2355
pull
Entries 91
Mean −21.65
Std Dev 0

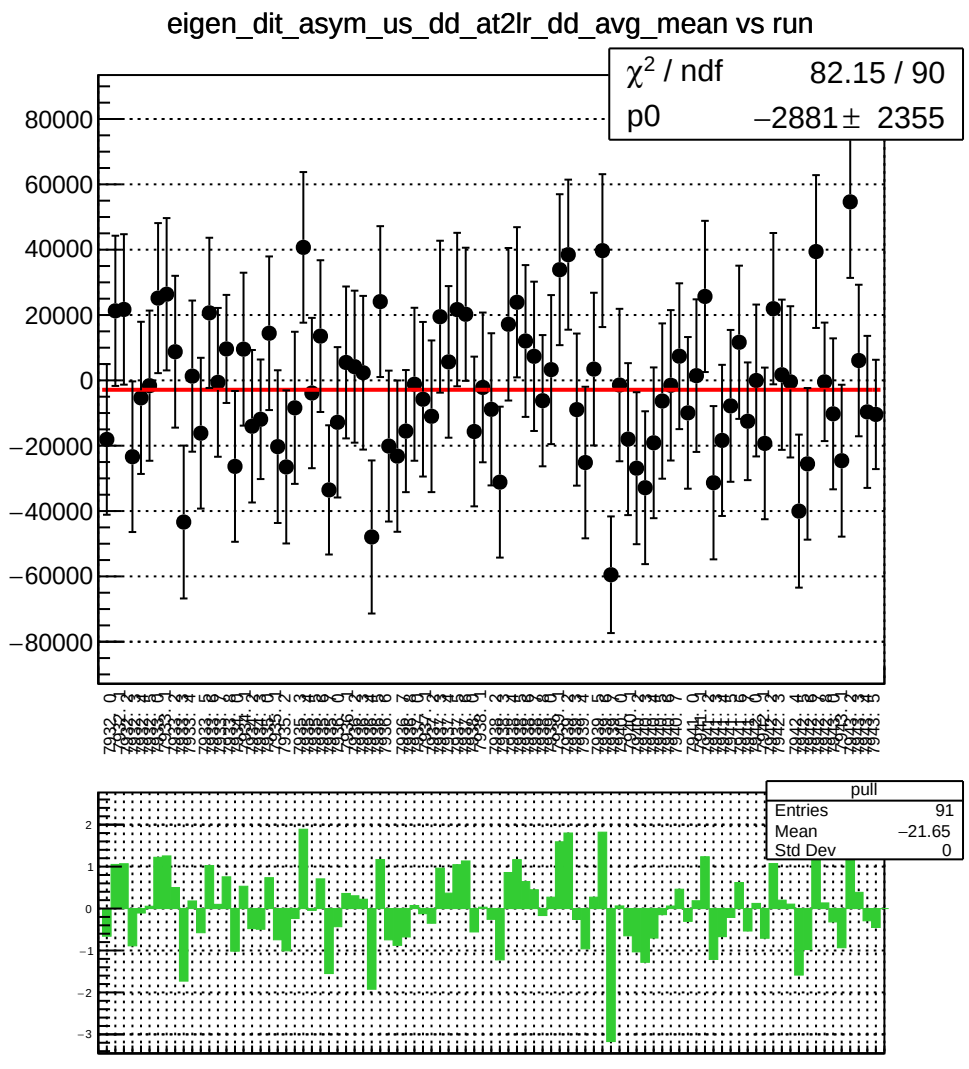

pull1D
Entries 91
Mean 0.01397
Std Dev 0.95

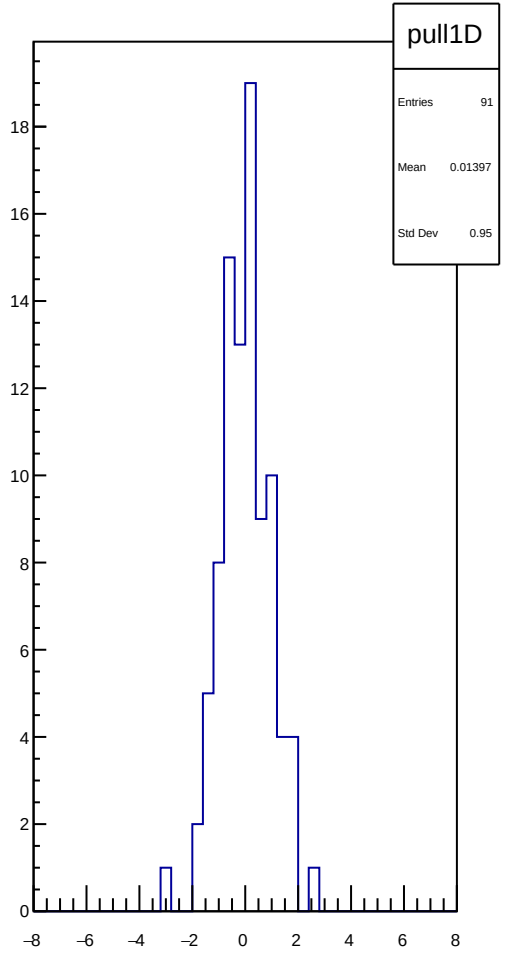

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 99.37 / 90
p0 2202 ± 1.665
2280
2260
2240
2220
2200
2180
2160
2140

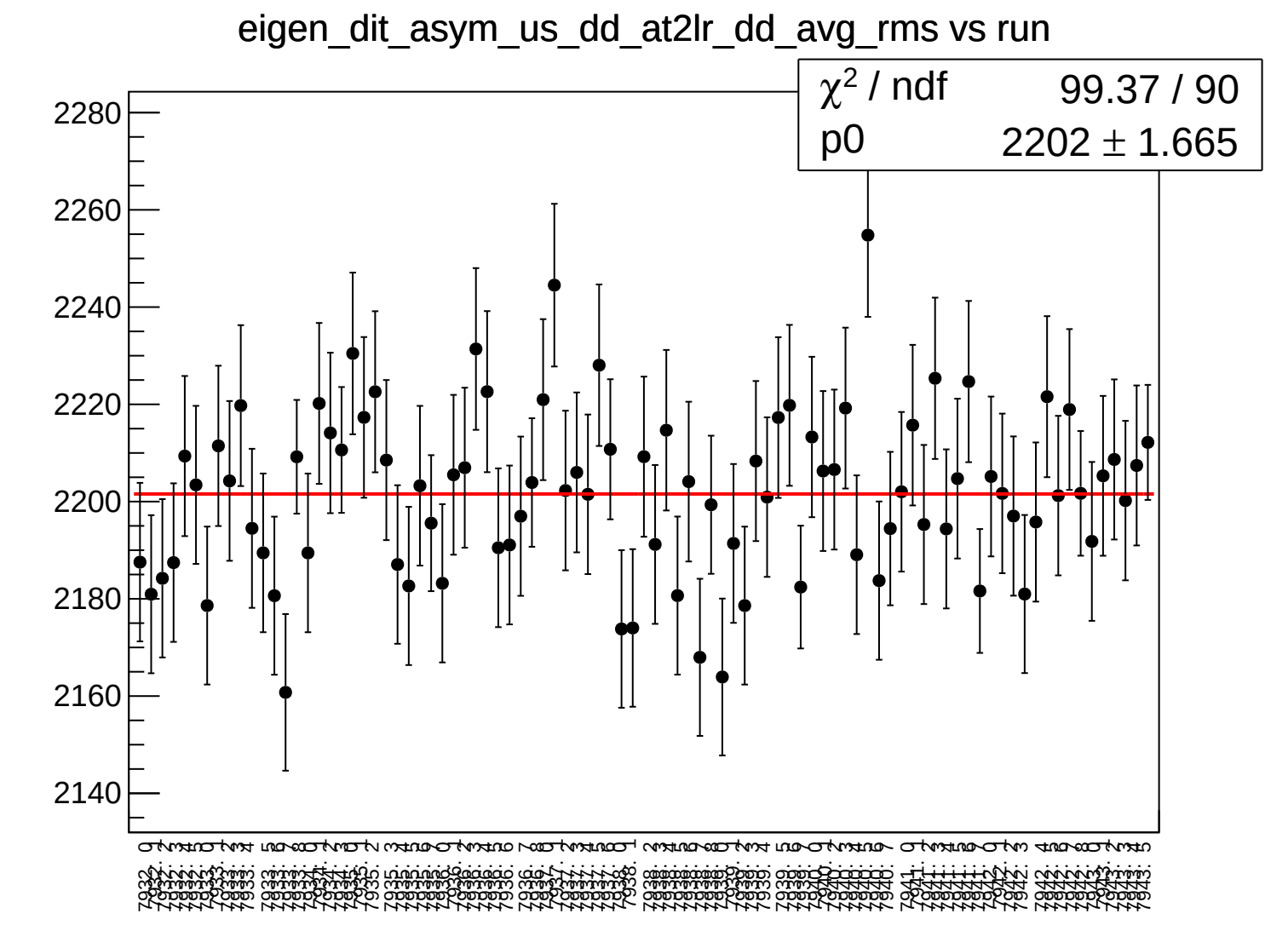

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 116 / 90
p0 −958.1± 5188
pull
Entries 91
Mean −47.31
Std Dev 0

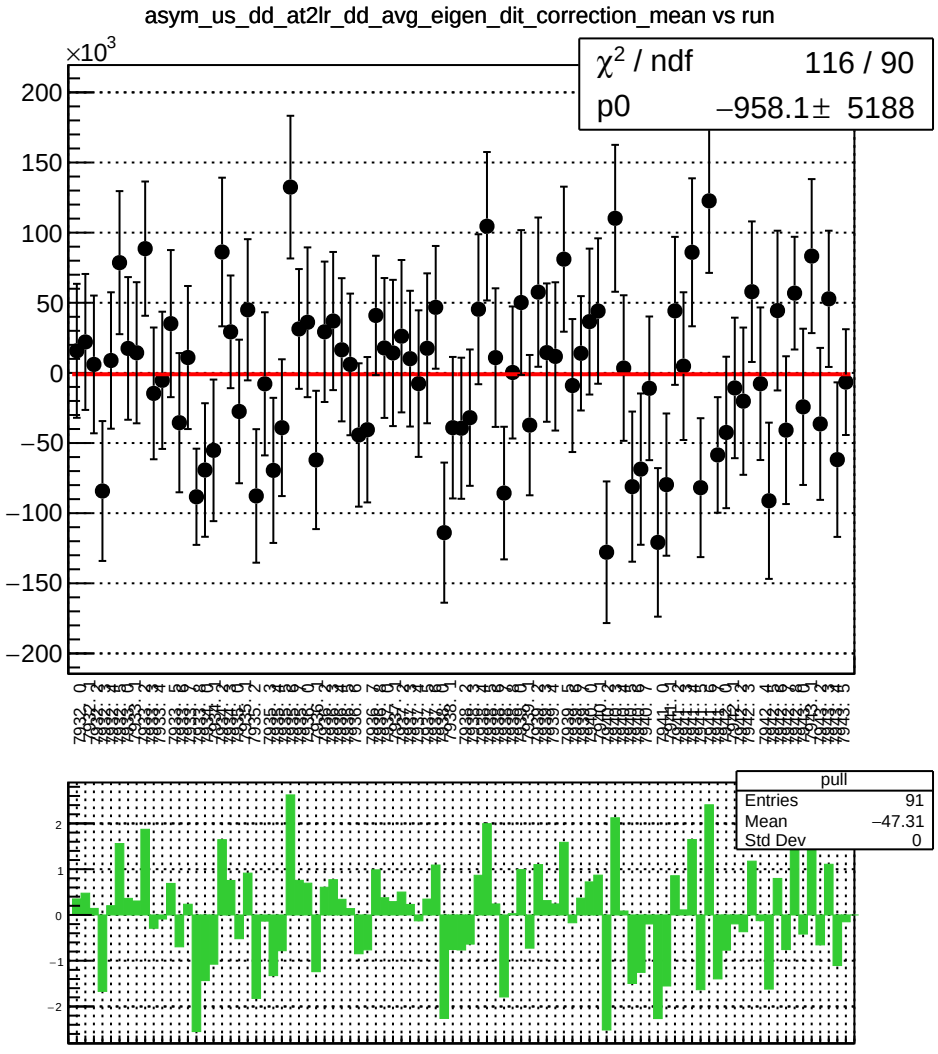

pull1D
Entries 91
Mean 0.01012
Std Dev 1.129

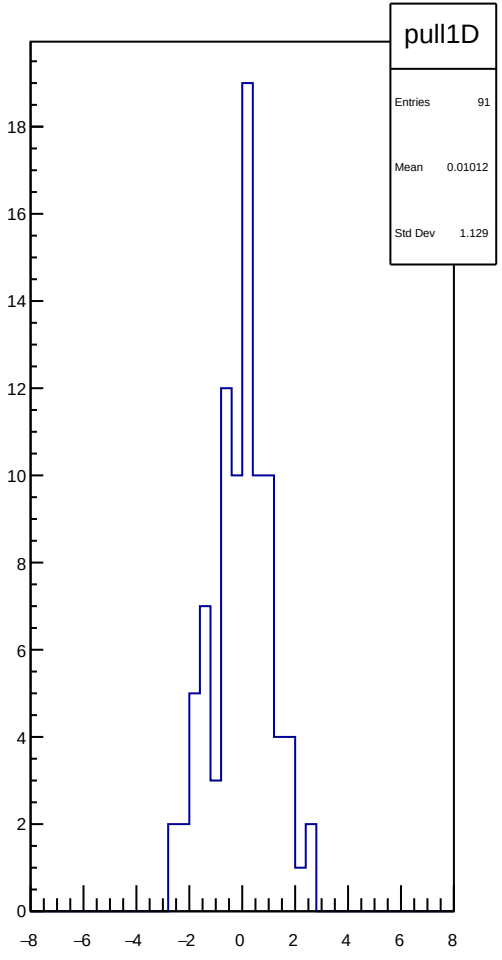

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2972 / 90
p0 4847 ± 3.669
5400
5200
5000
4800
4600
4400

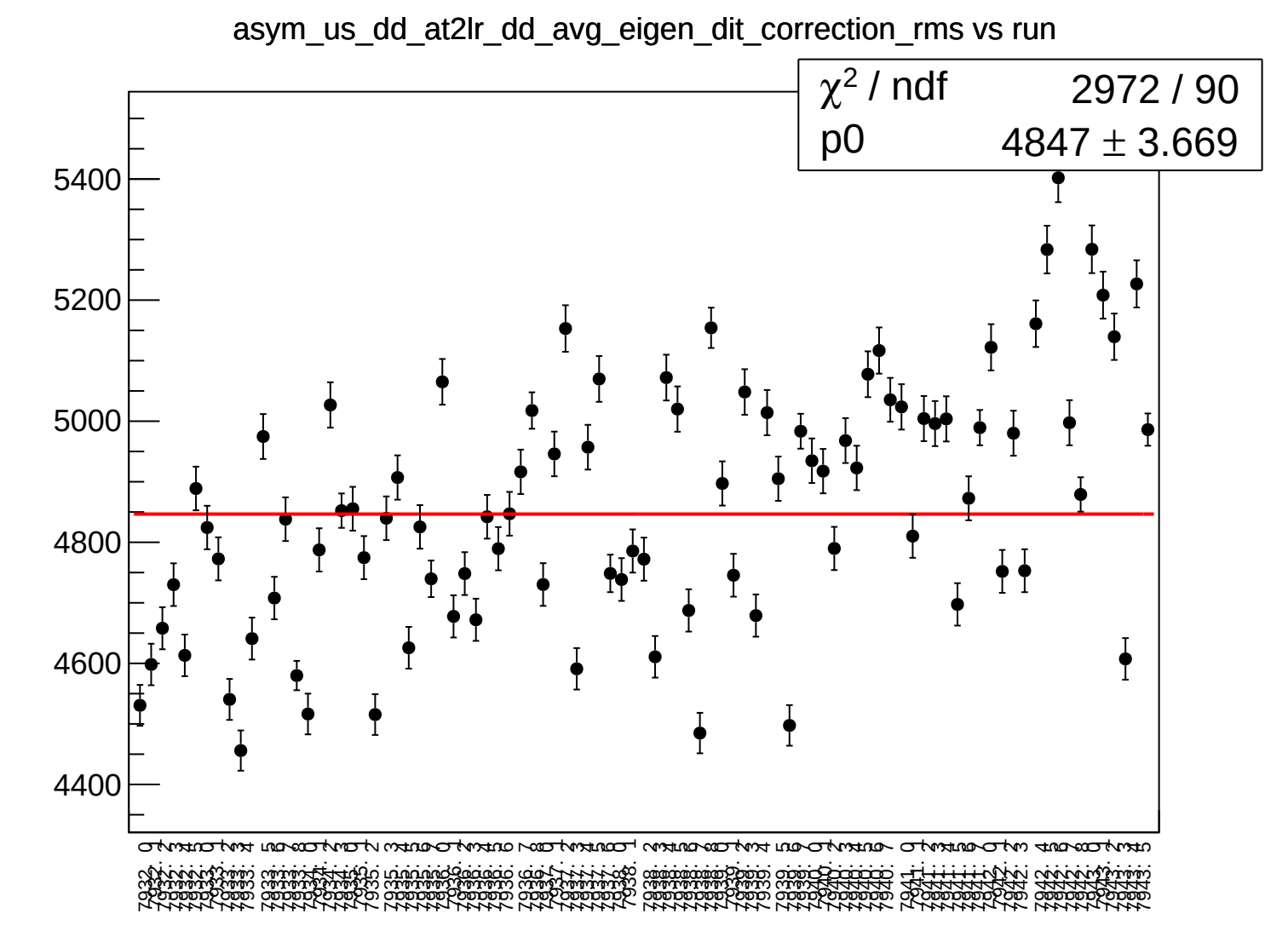

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 82.15 / 90
p0 −2881 ± 2355
pull
Entries 91
Mean −21.65
Std Dev 0

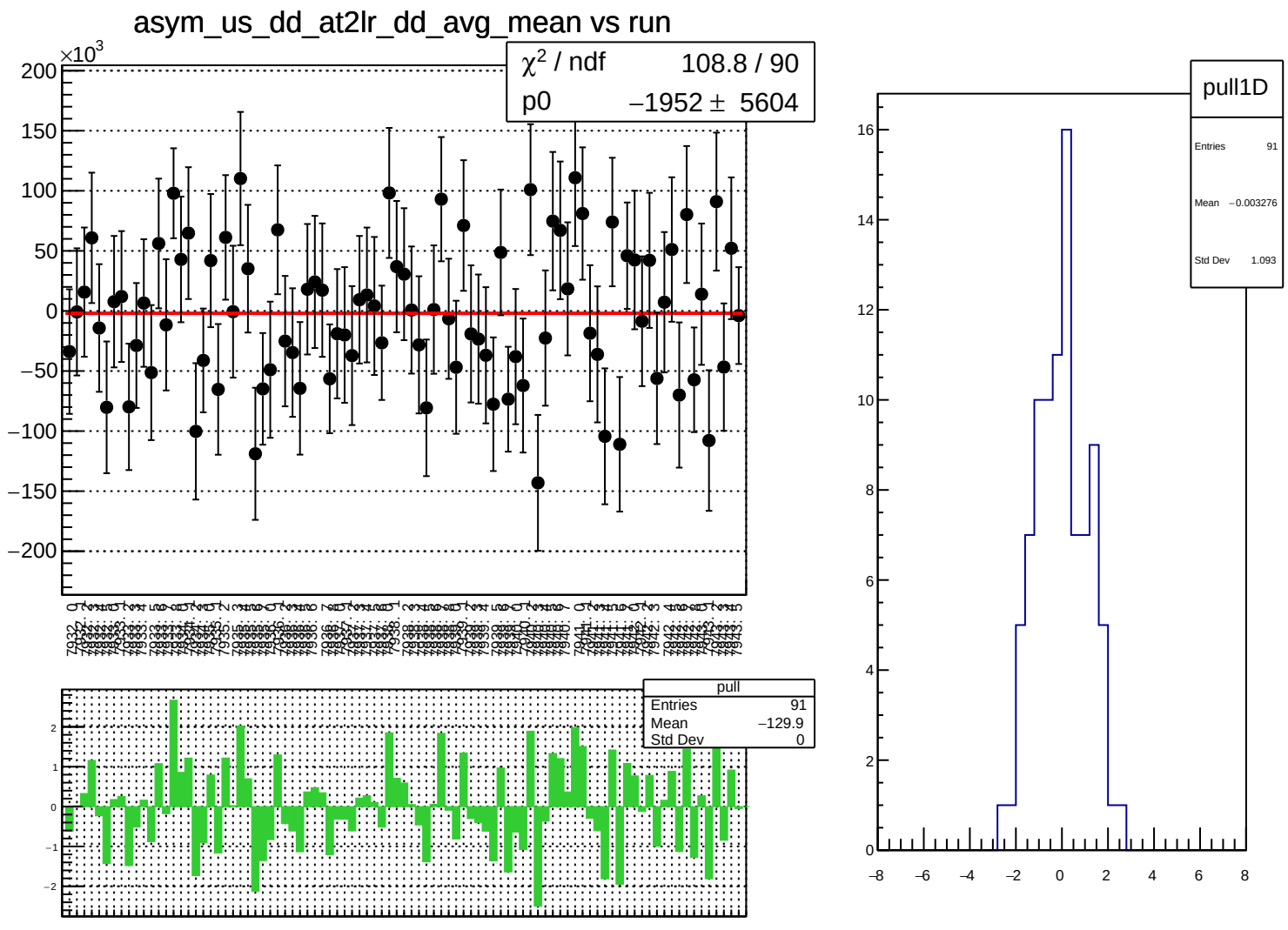

pull1D
Entries 91
Mean 0.01397
Std Dev 0.95

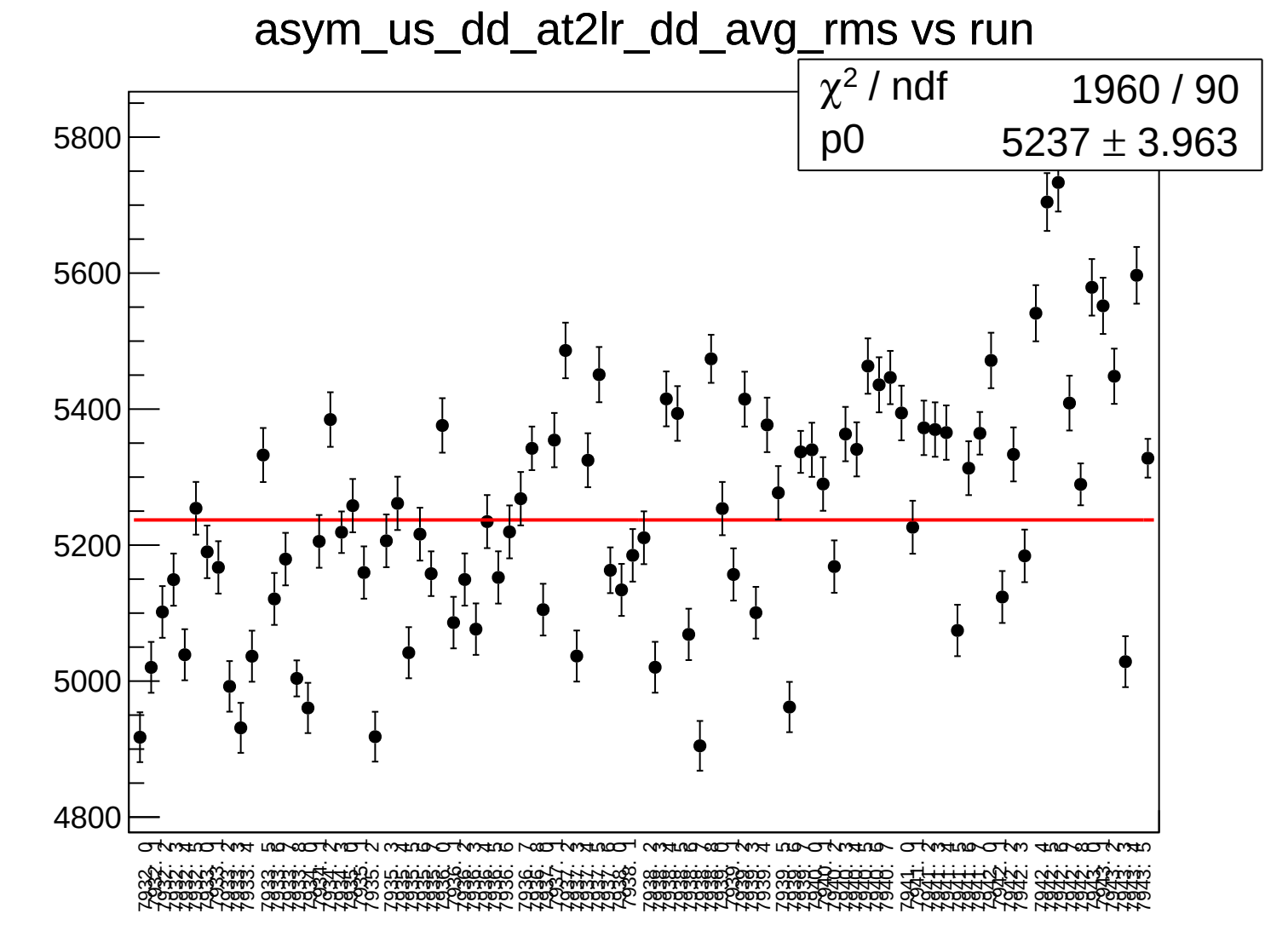

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 99.37 / 90
p0 2202 ± 1.665
2280
2260
2240
2220
2200
2180
2160
2140

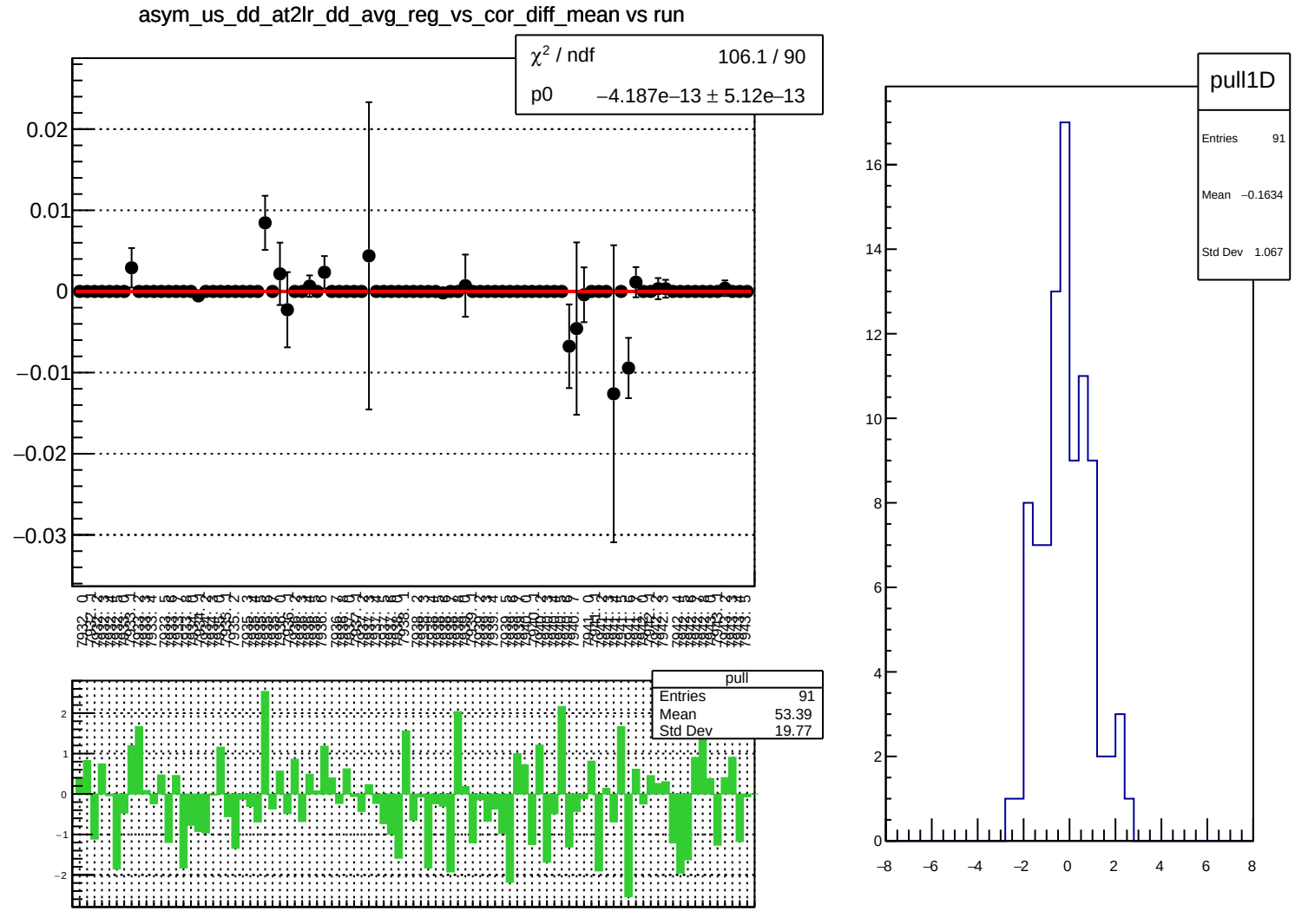

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 116 / 90
p0 −958.1± 5188
pull
Entries 91
Mean −47.31
Std Dev 0

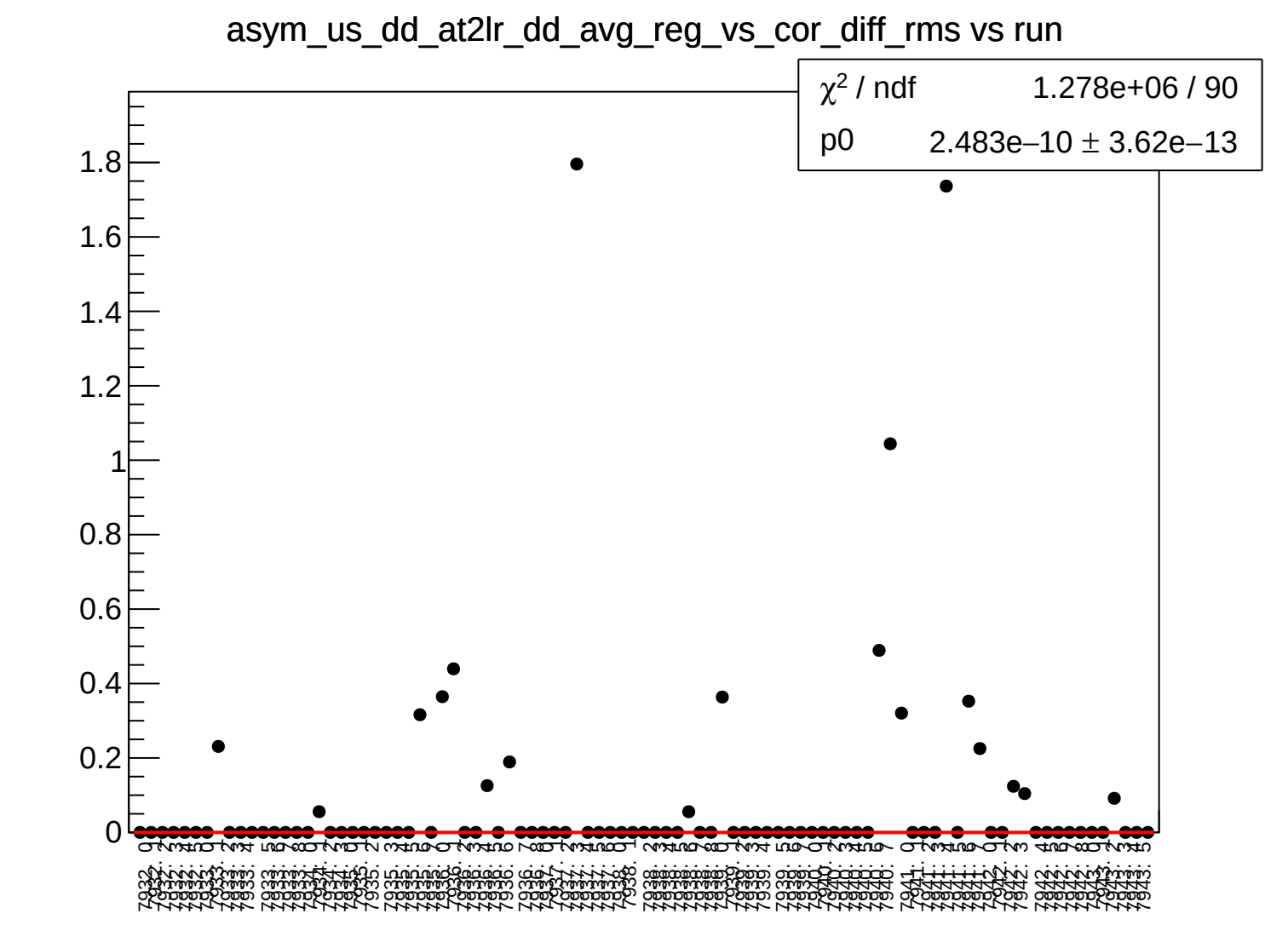

pull1D
Entries 91
Mean 0.01012
Std Dev 1.129

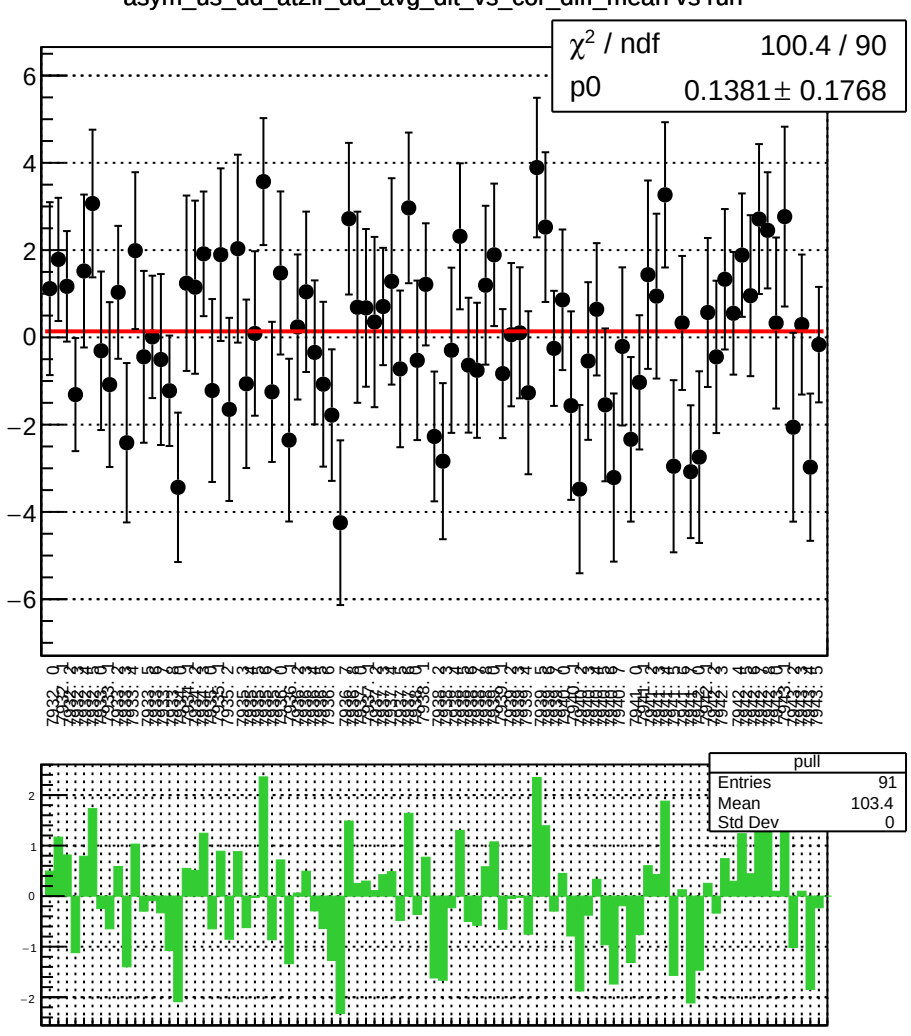

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2972 / 90
p0 4847 ± 3.669
5400
5200
5000
4800
4600
4400

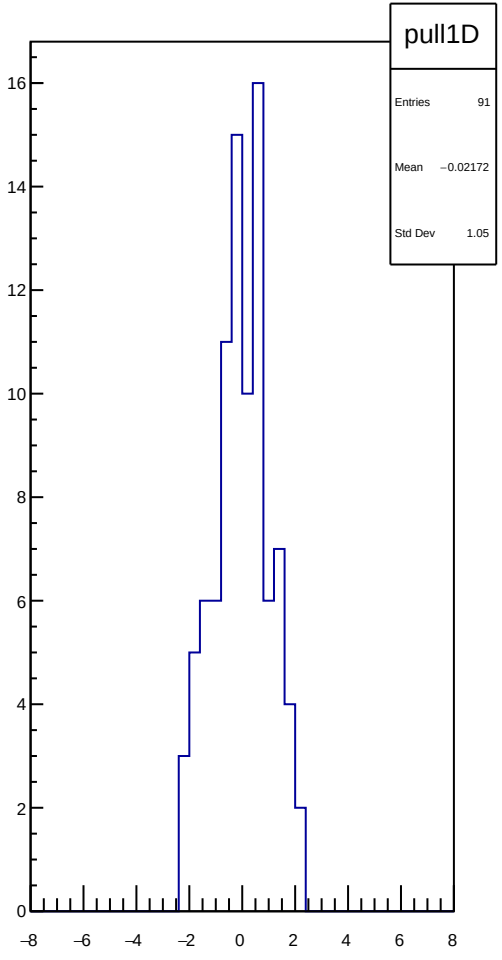

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 108.8 / 90
p0 −1952 ± 5604
pull
Entries 91
Mean −129.9
Std Dev 0
pull1D
Entries 91
Mean −0.003276
Std Dev 1.093

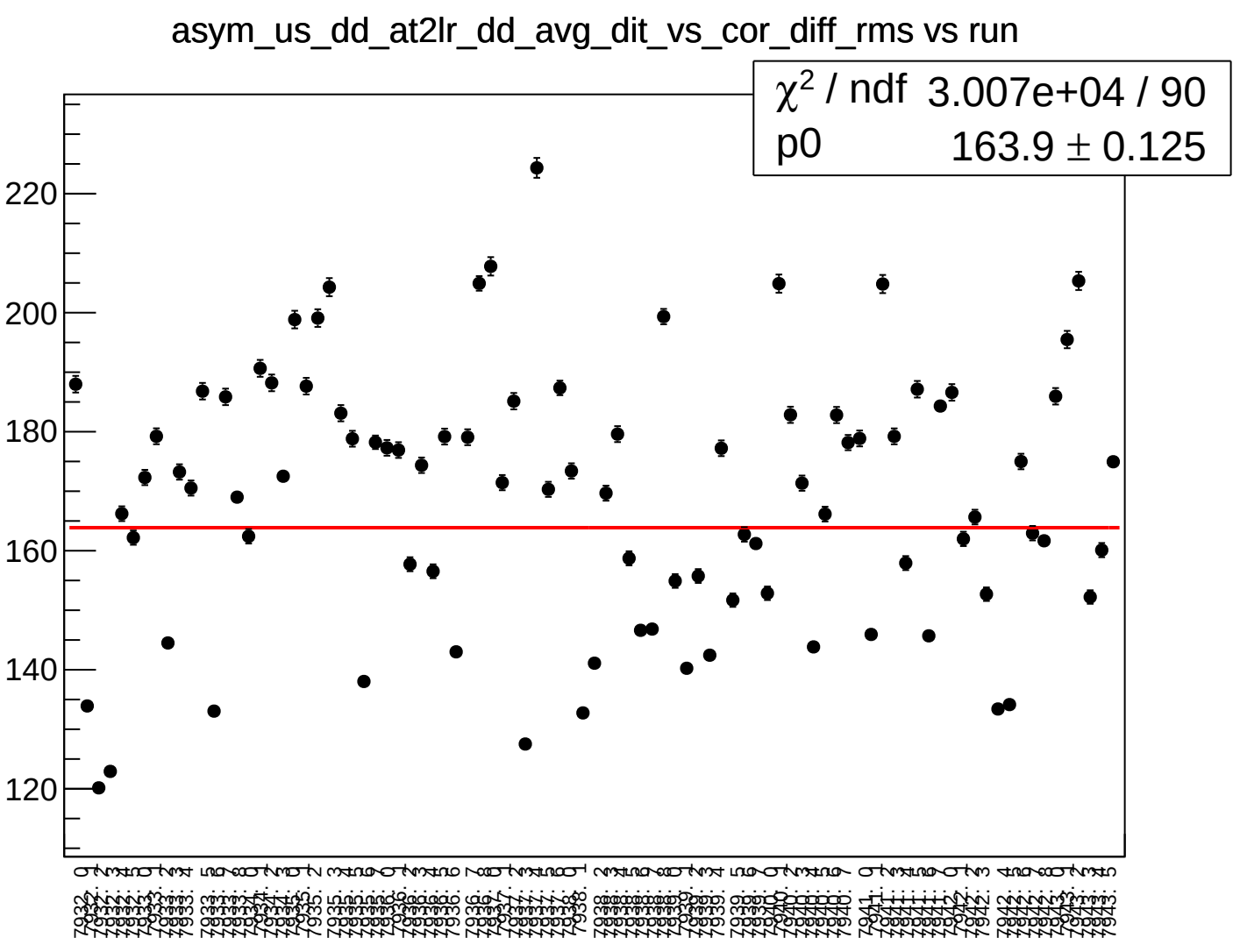

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1960 / 90
p0 5237 ± 3.963
5800
5600
5400
5200
5000
4800

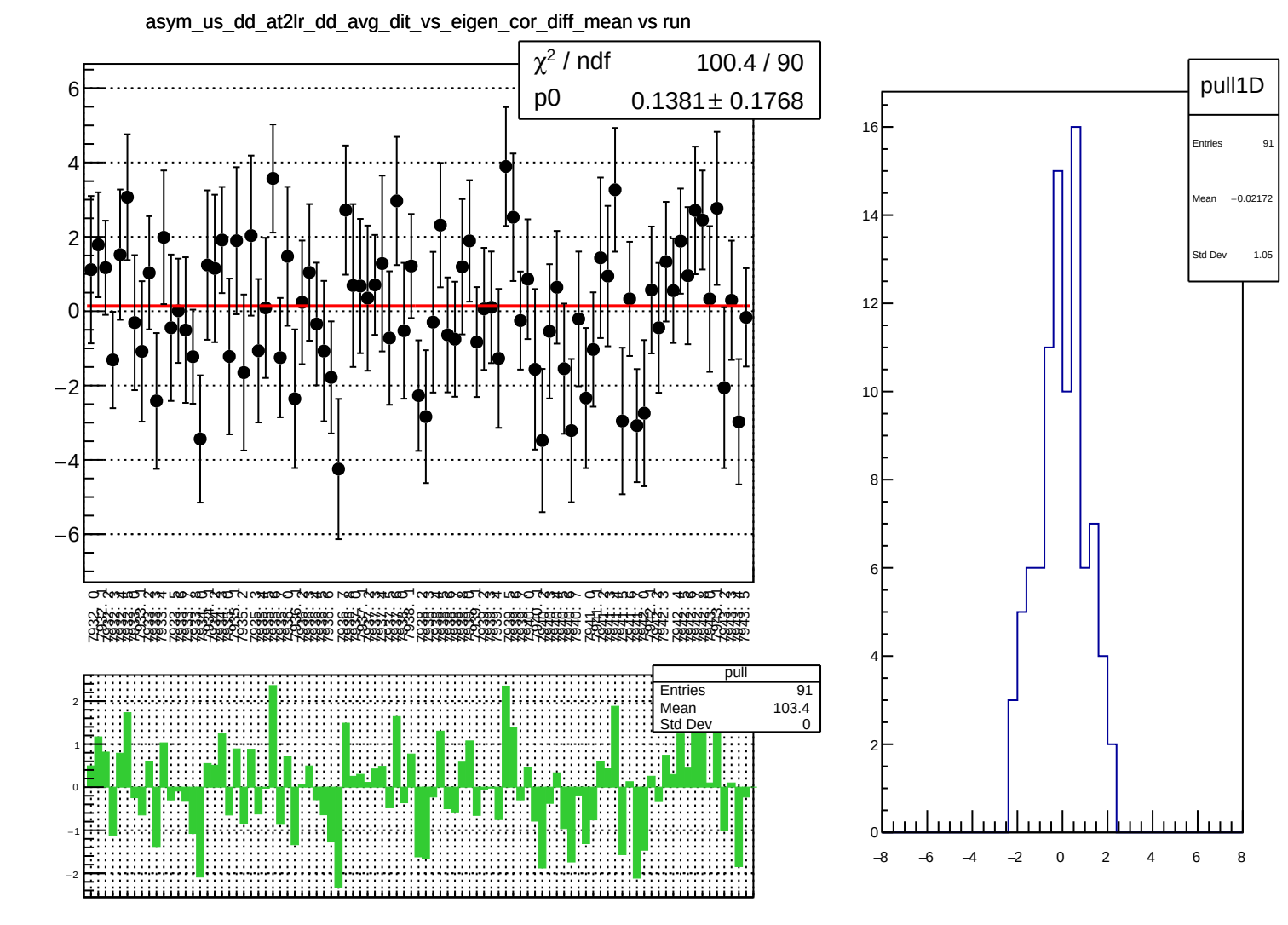

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 90
p0 −4.187e−13 ± 5.12e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 53.39
Std Dev 19.77
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.1634
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

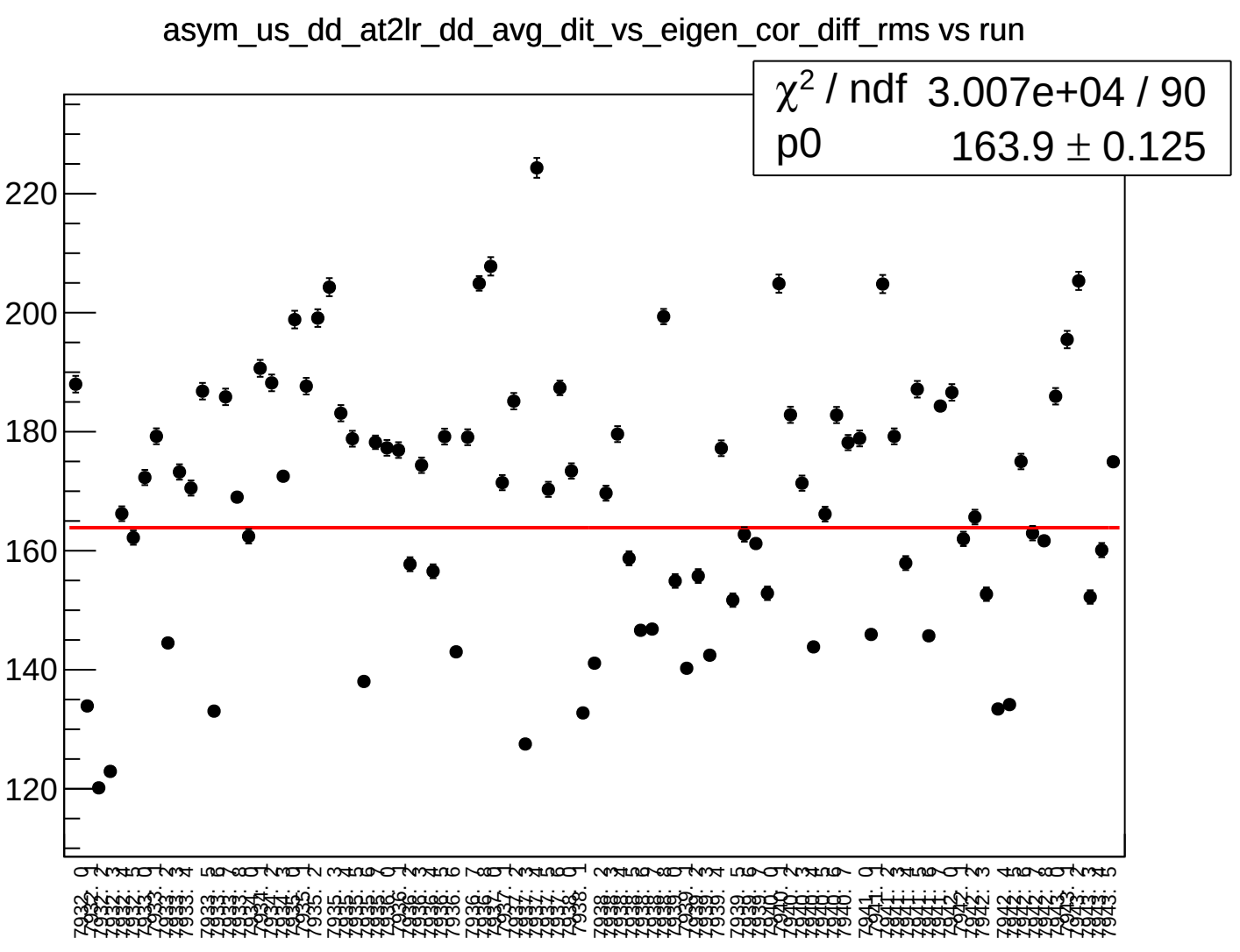

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.278e+06 / 90
p0 2.483e−10 ± 3.62e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

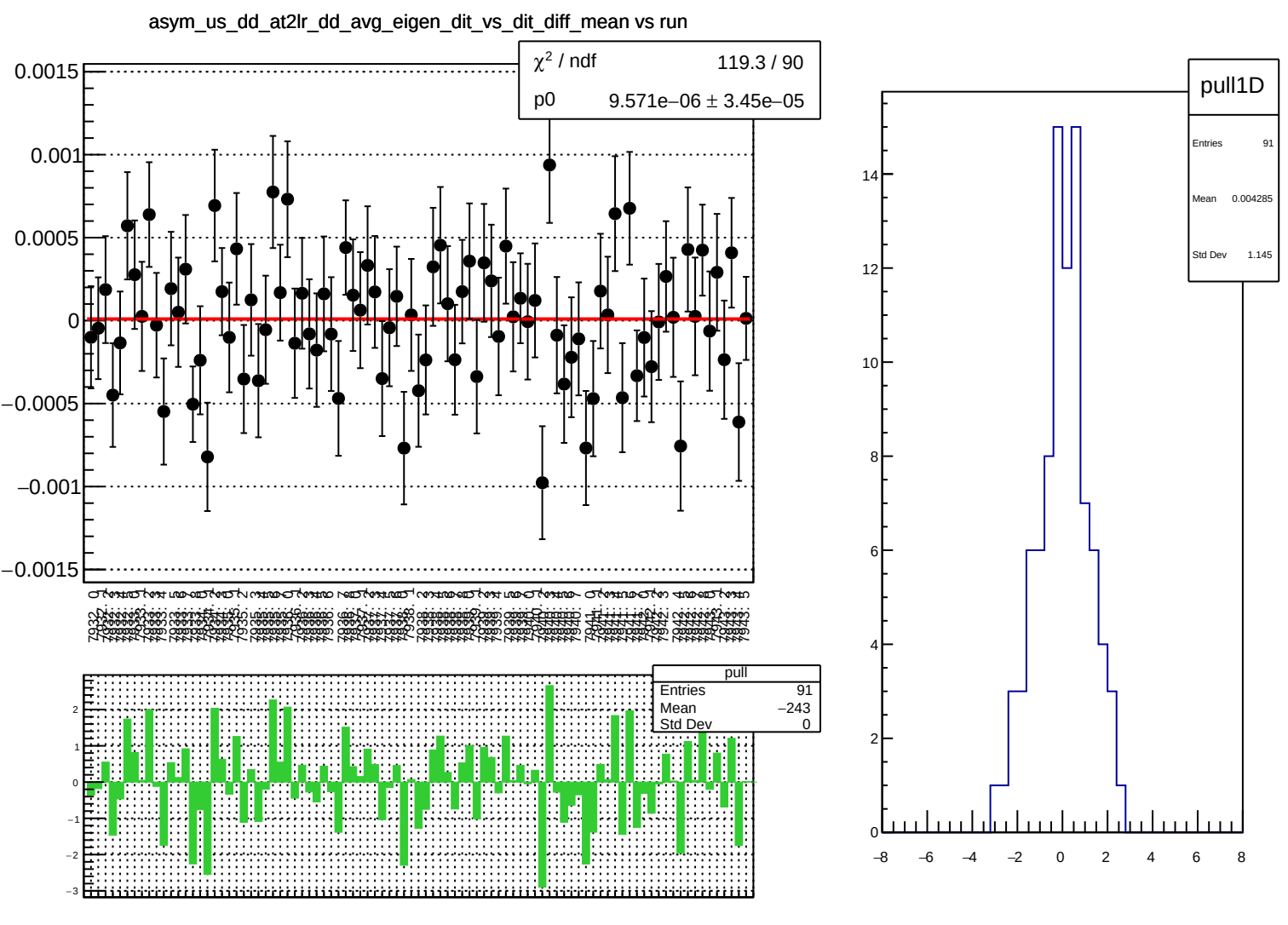

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 0.1381± 0.1768
pull
Entries 91
Mean 103.4
Std Dev 0

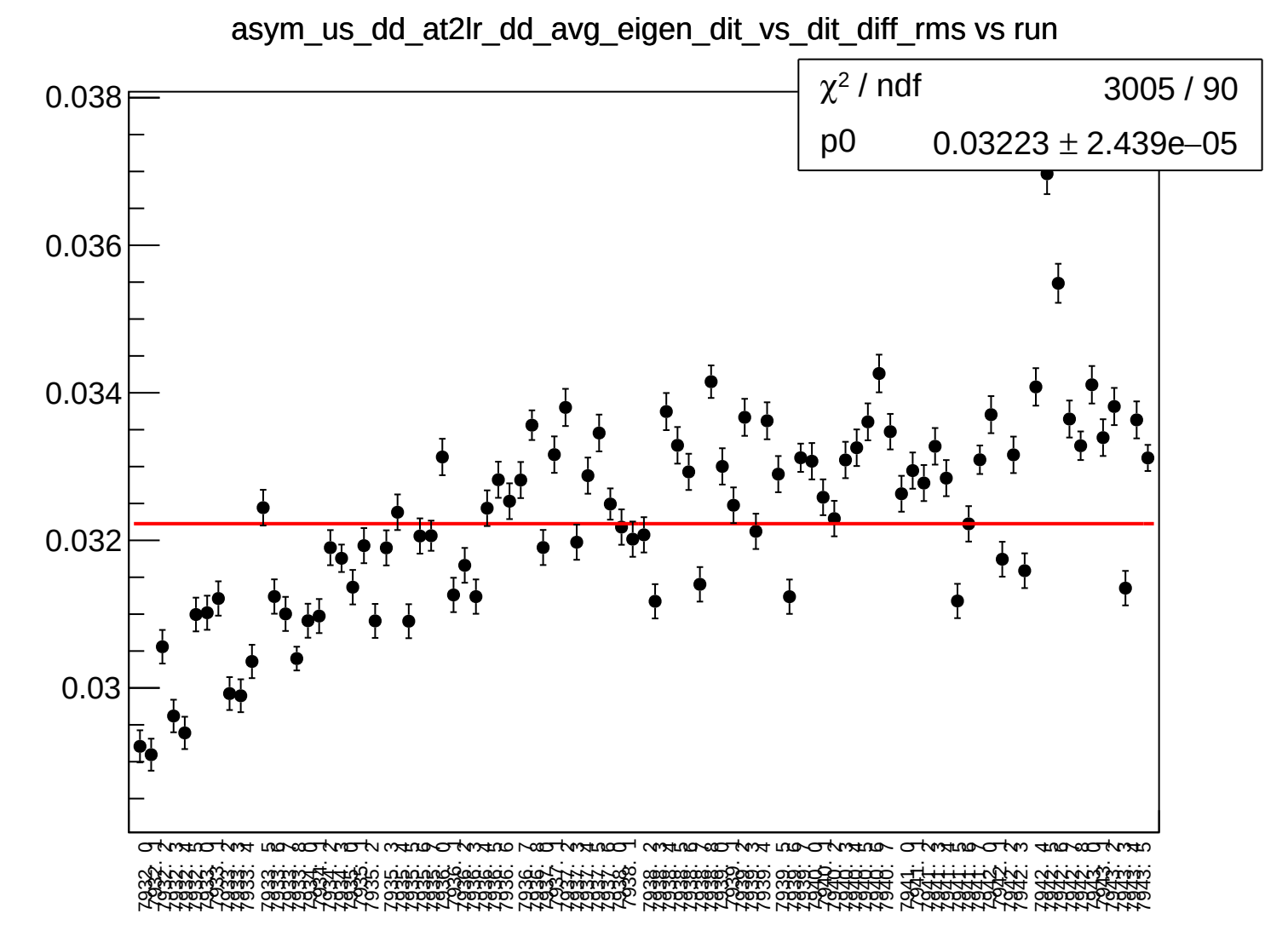

pull1D
Entries 91
Mean −0.02172
Std Dev 1.05

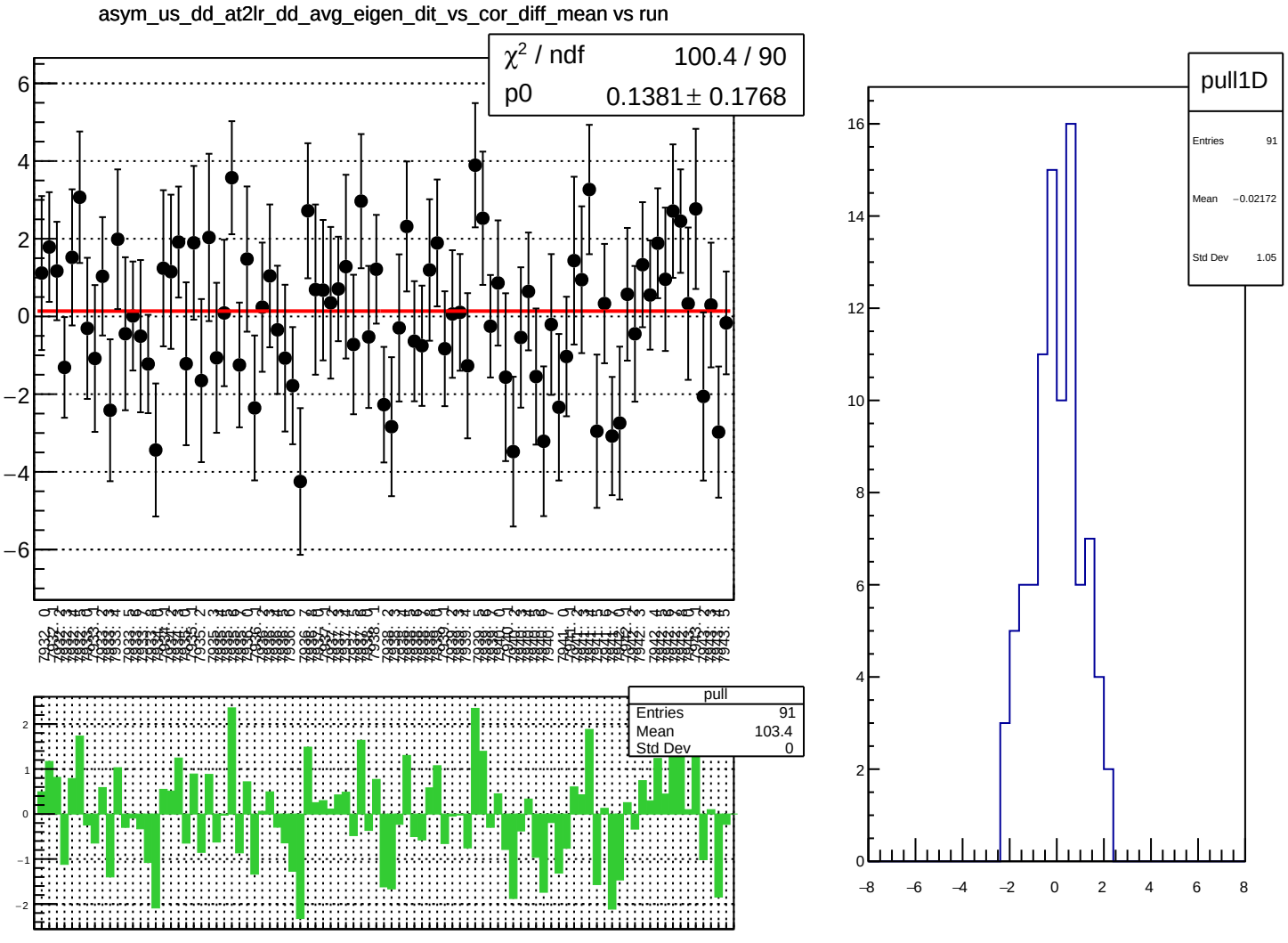

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.007e+04 / 90
p0 163.9 ± 0.125
220
200
180
160
140
120

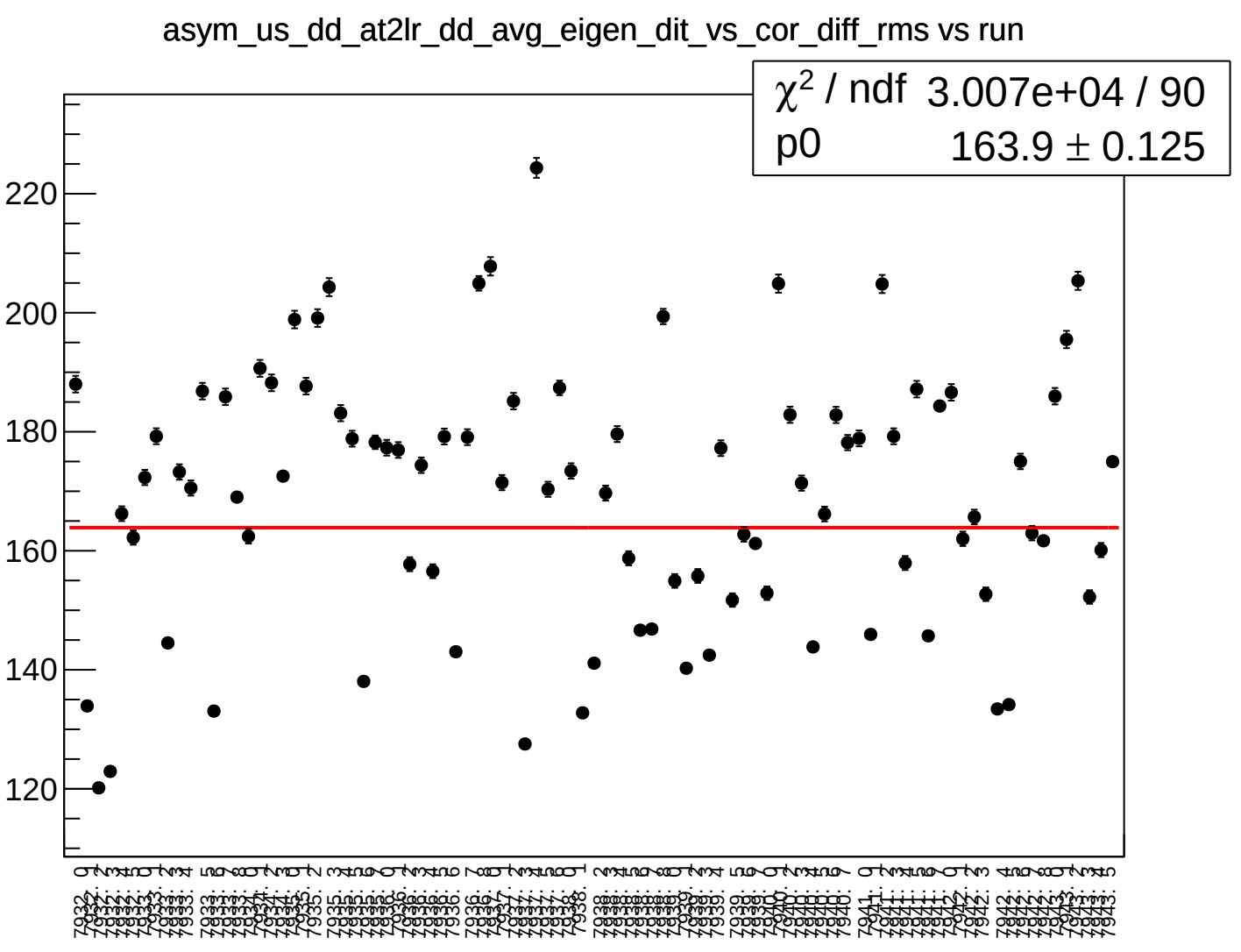

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 0.1381 ± 0.1768
pull
Entries 91
Mean 103.4
Std Dev 0
pull1D
Entries 91
Mean −0.02172
Std Dev 1.05

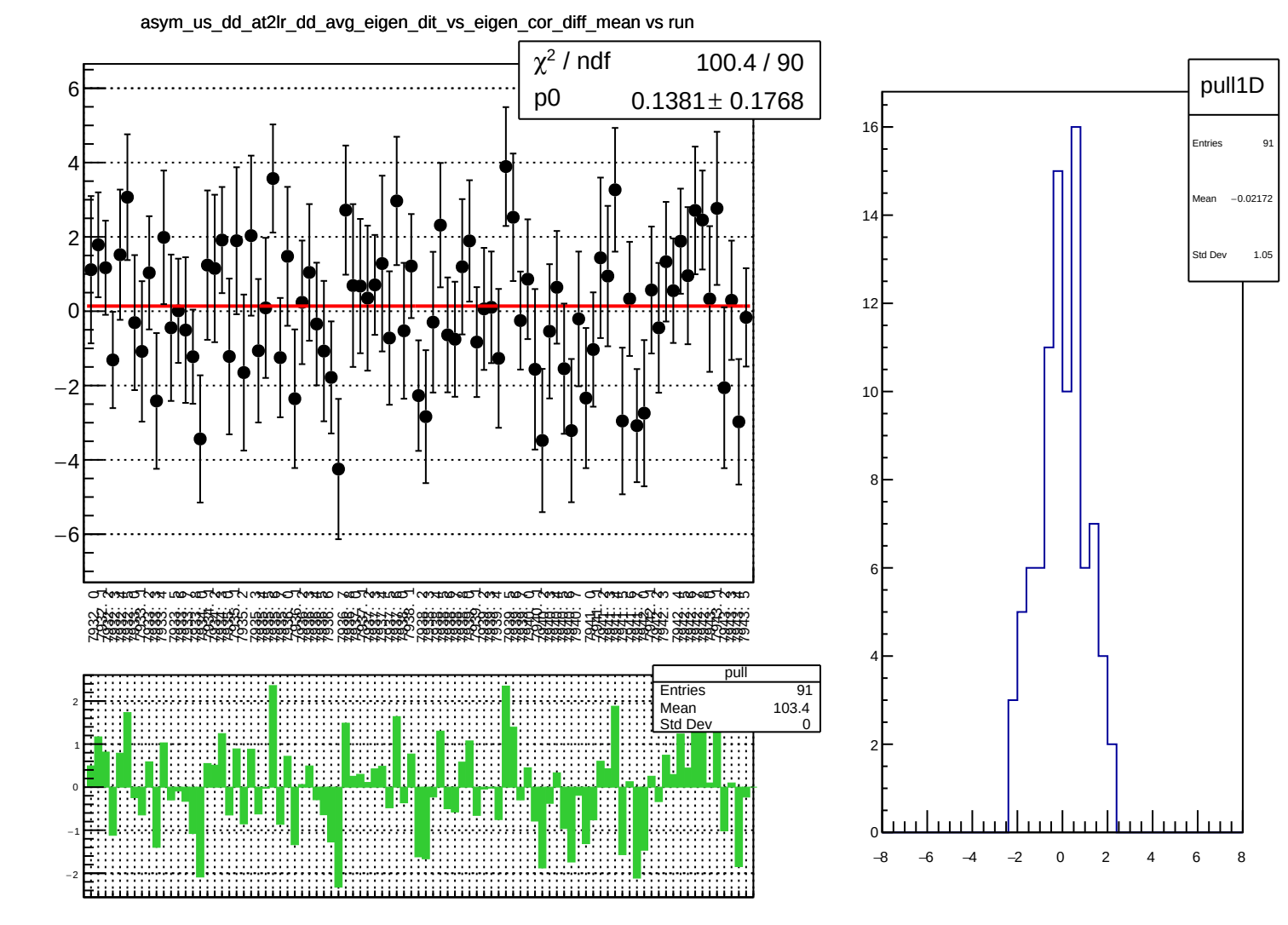

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.007e+04 / 90
p0 163.9 ± 0.125
220
200
180
160
140
120

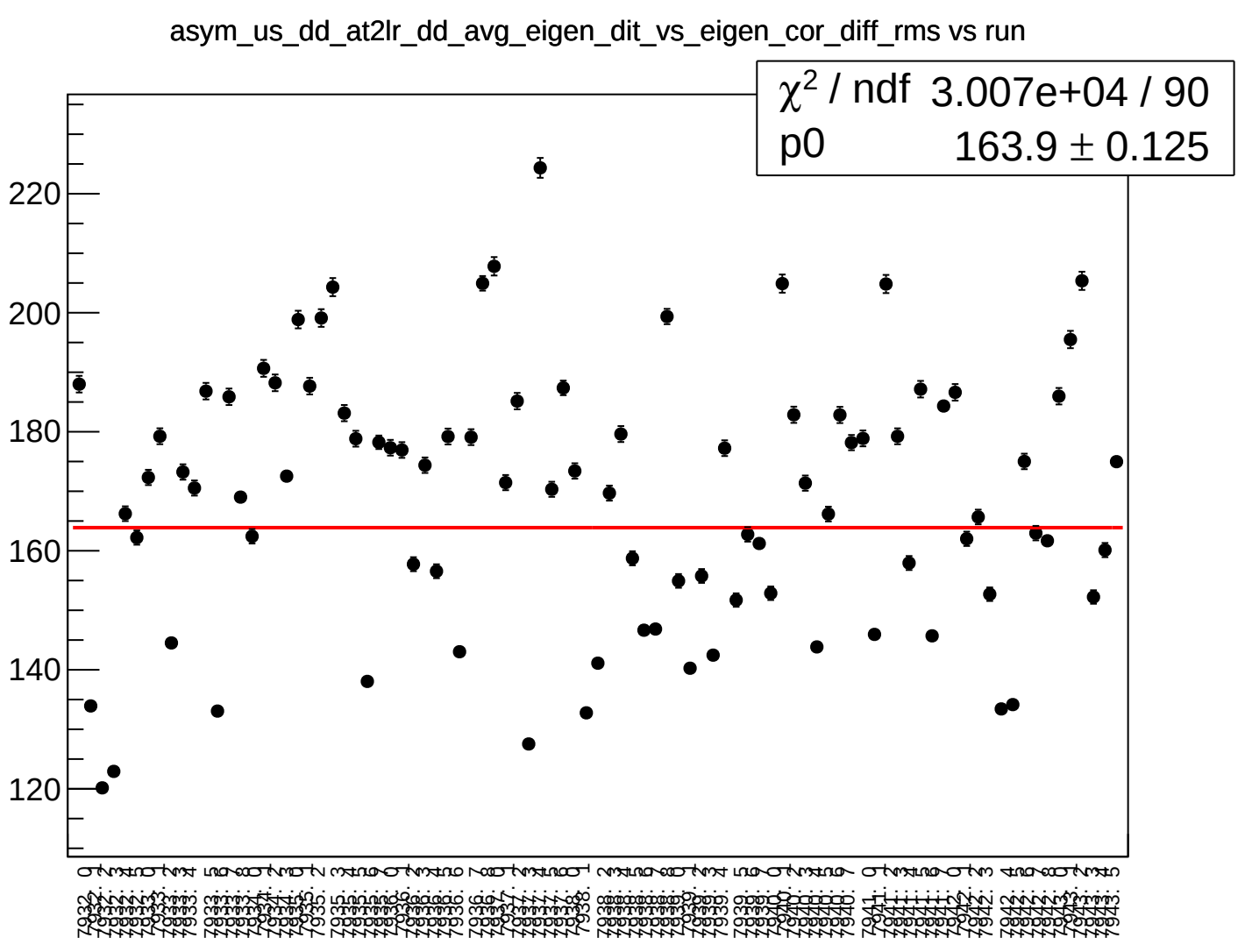

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 119.3 / 90
p0 9.571e−06 ± 3.45e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean −243
Std Dev 0
pull1D
Entries 91
Mean 0.004285
Std Dev 1.145

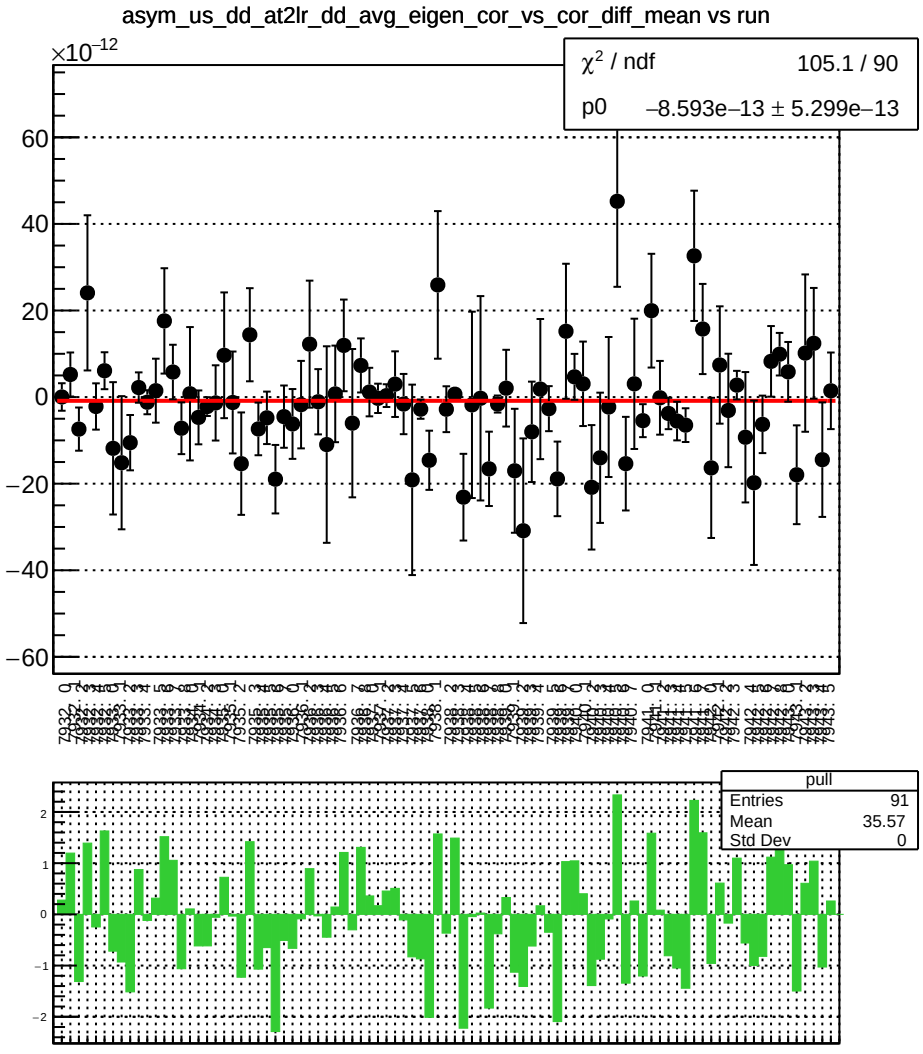

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3005 / 90
p0 0.03223 ± 2.439e−05
0.038
0.036
0.034
0.032
0.03

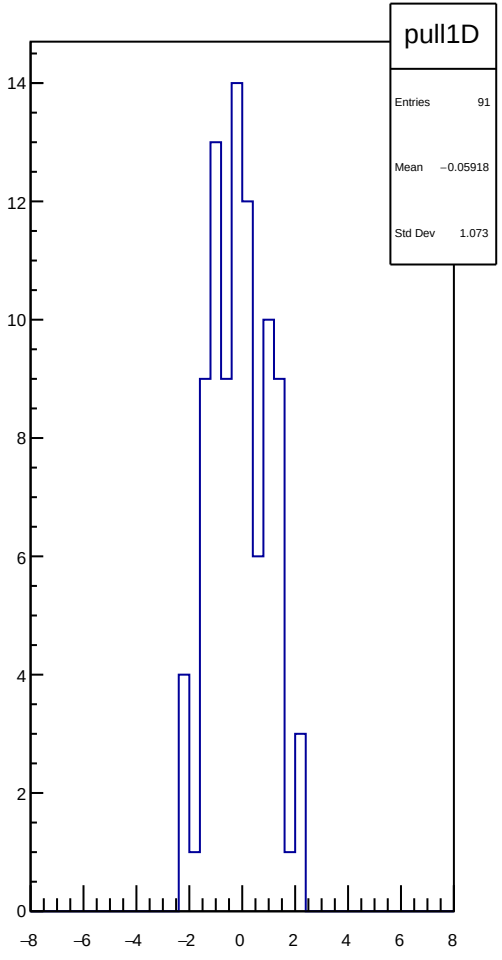

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 0.1381 ± 0.1768
pull
Entries 91
Mean 103.4
Std Dev 0
pull1D
Entries 91
Mean −0.02172
Std Dev 1.05

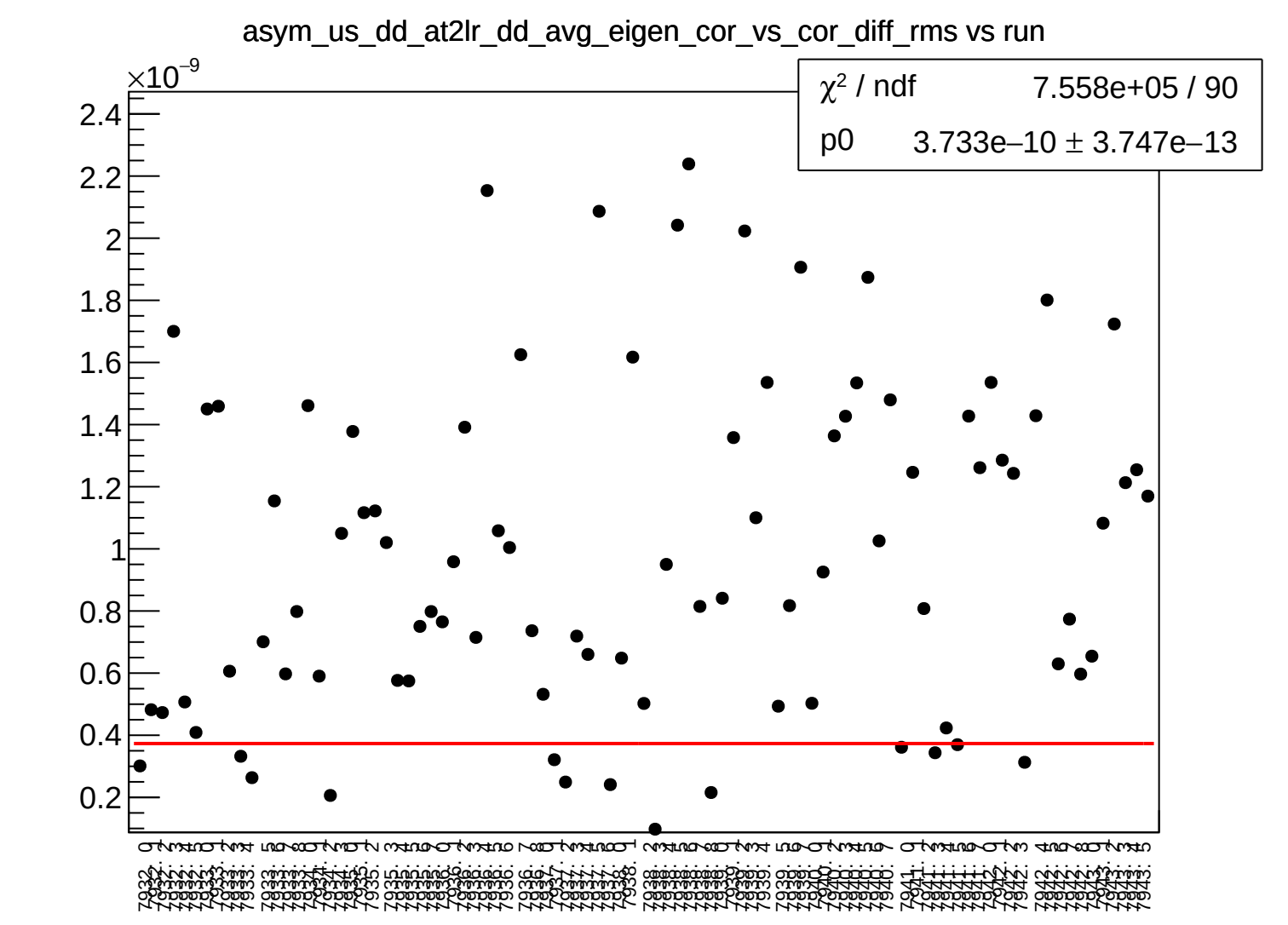

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.007e+04 / 90
p0 163.9 ± 0.125
220
200
180
160
140
120

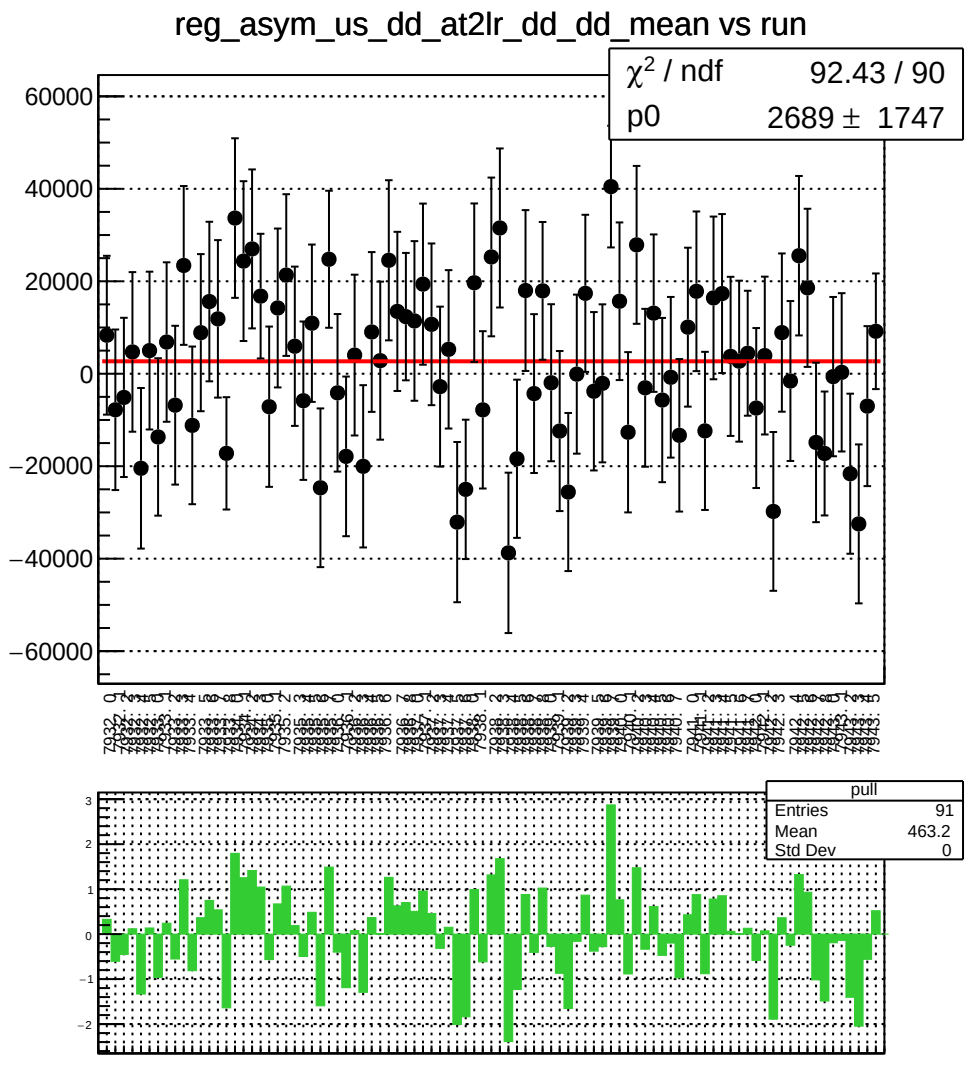

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 0.1381 ± 0.1768
pull
Entries 91
Mean 103.4
Std Dev 0
pull1D
Entries 91
Mean −0.02172
Std Dev 1.05

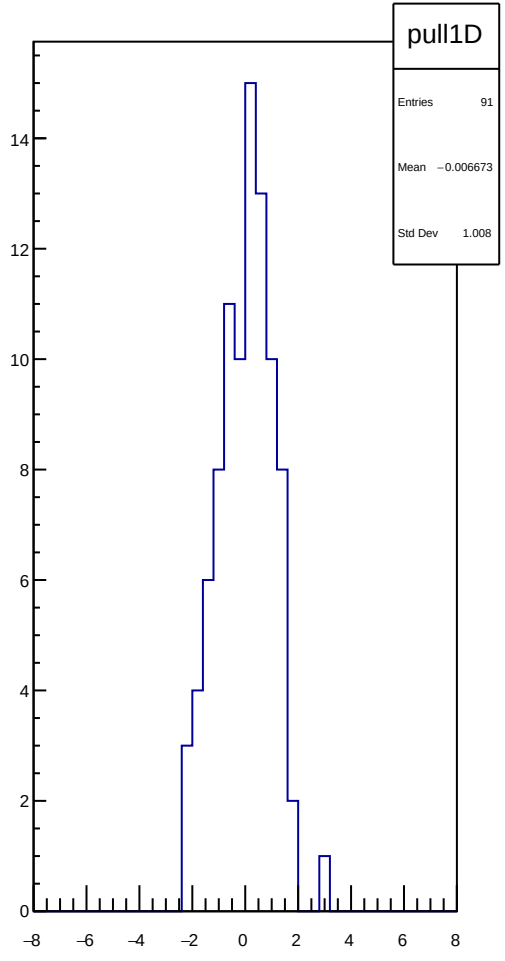

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.007e+04 / 90
p0 163.9 ± 0.125
220
200
180
160
140
120

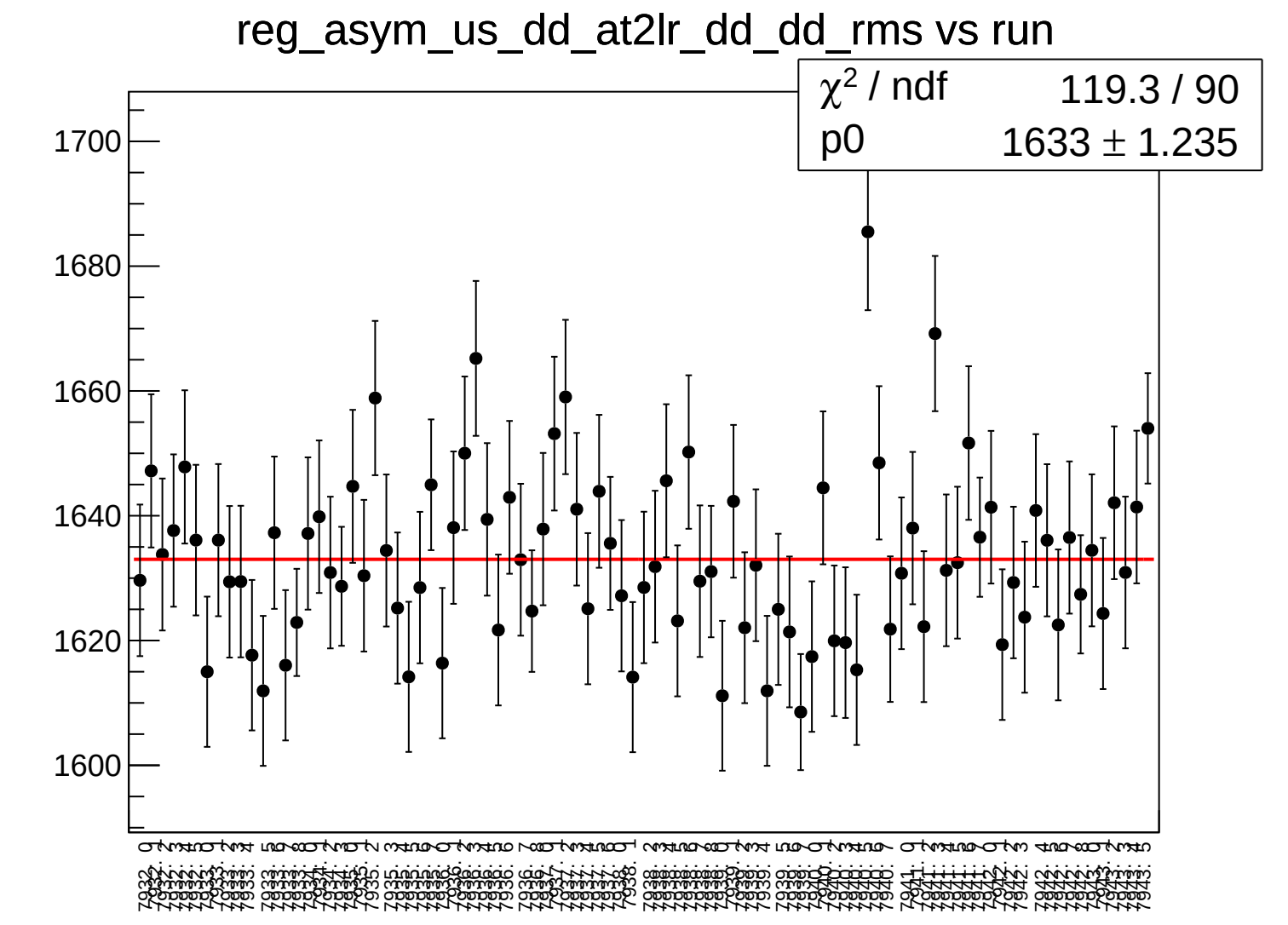

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.1 / 90
p0 −8.593e−13 ± 5.299e−13
pull
Entries 91
Mean 35.57
Std Dev 0

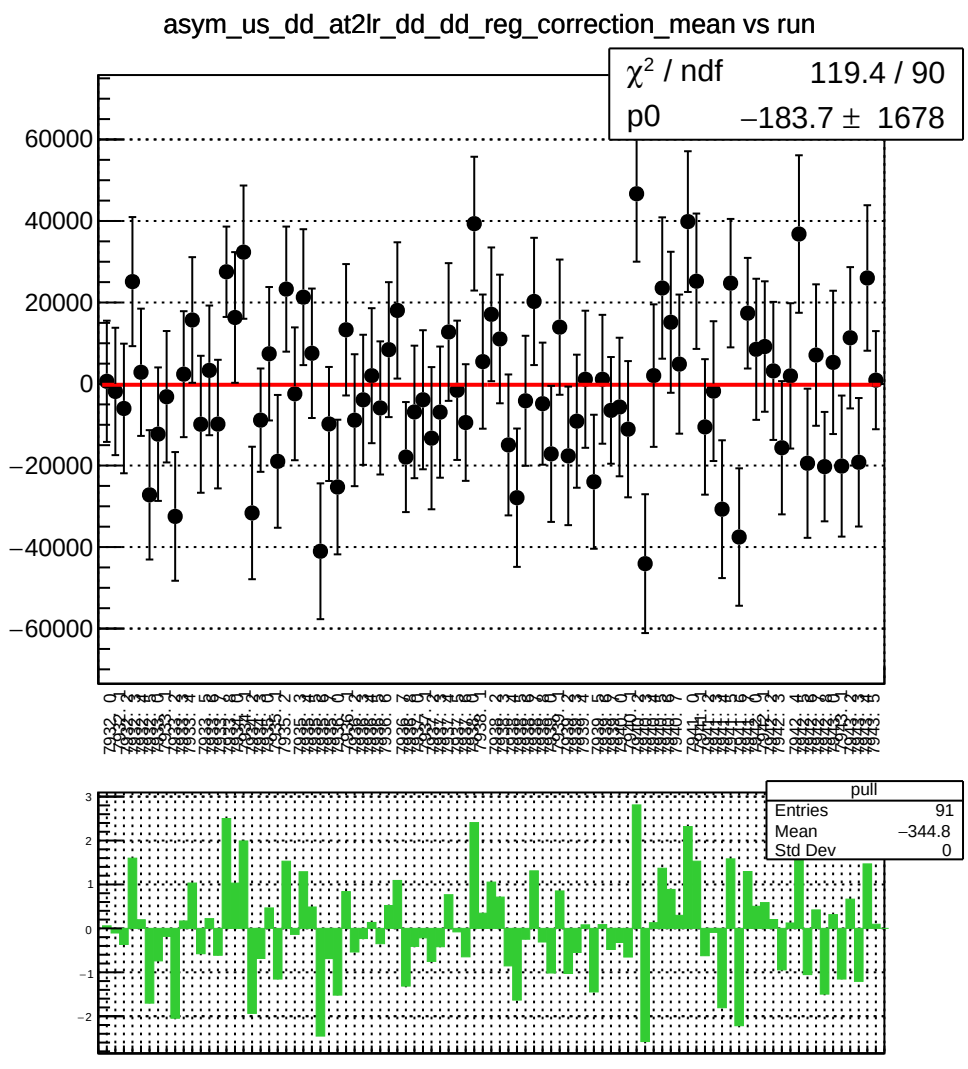

pull1D
Entries 91
Mean −0.05918
Std Dev 1.073

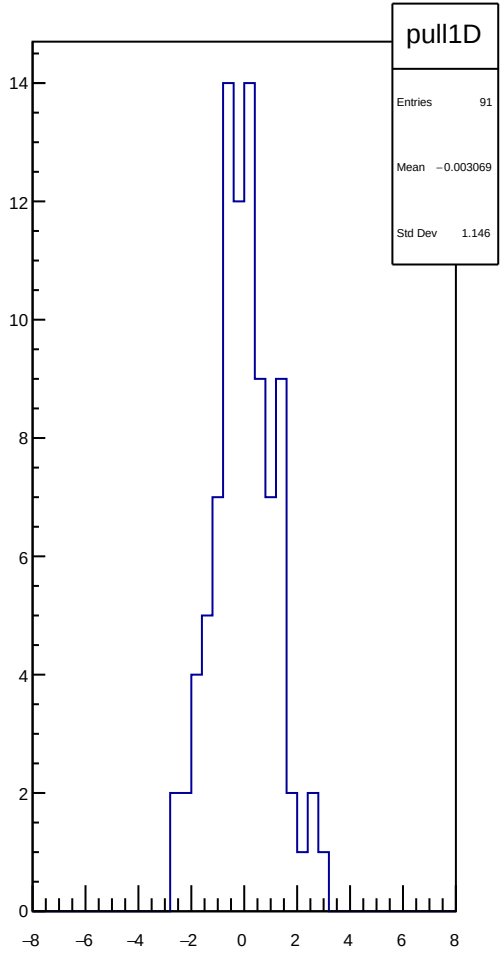

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.558e+05 / 90
p0 3.733e−10 ± 3.747e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

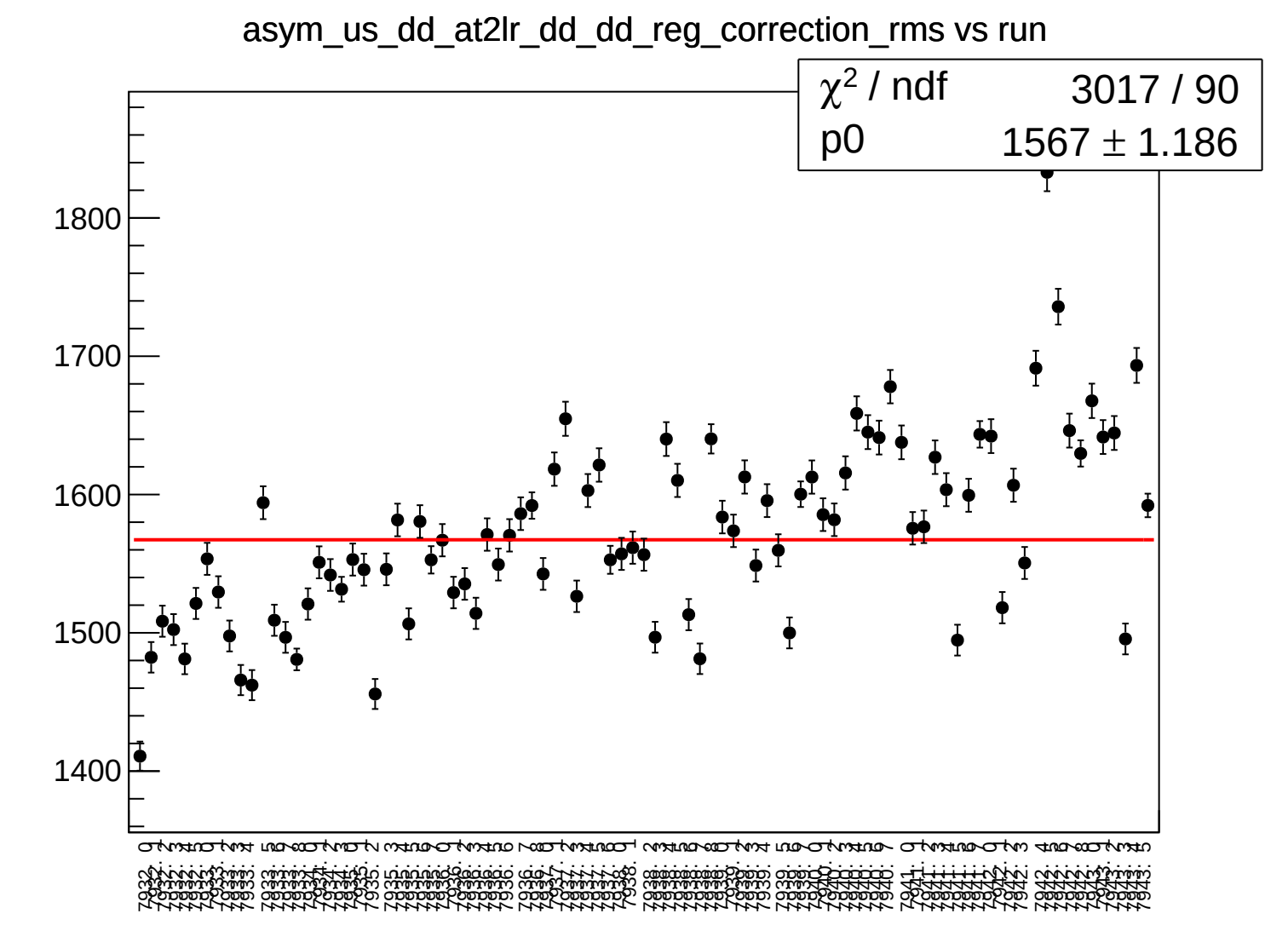

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.43 / 90
p0 2689 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 463.2
Std Dev 0
3
2
1
0
−1
−2

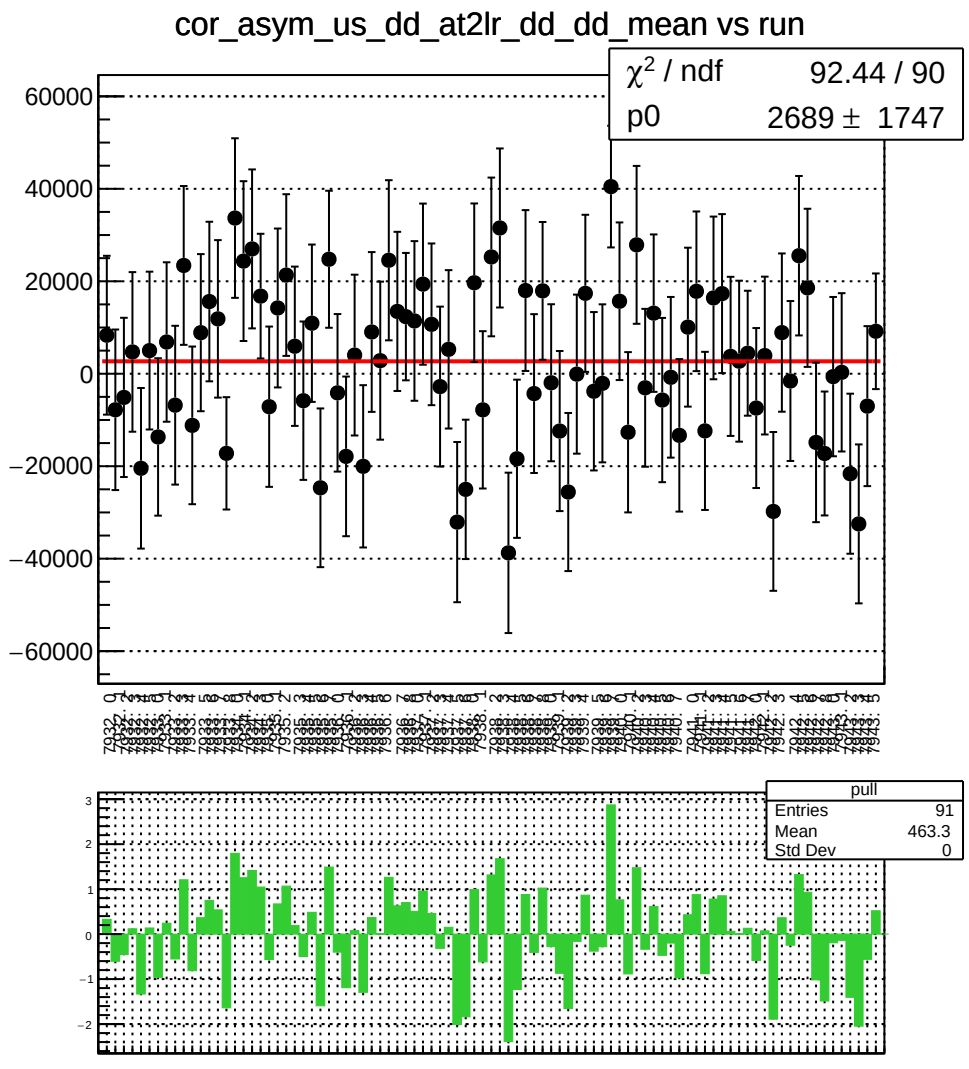

pull1D
Entries 91
Mean −0.006673
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

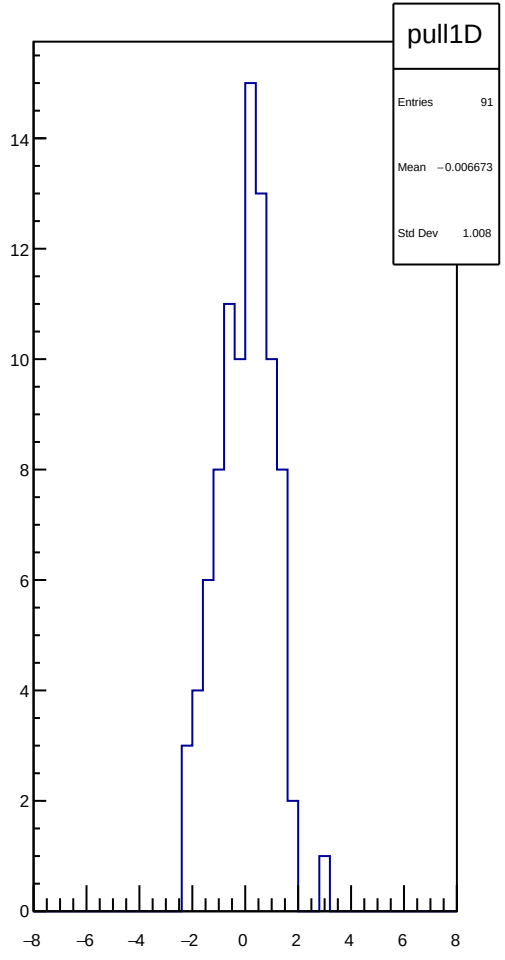

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 119.3 / 90
p0 1633 ± 1.235
1700
1680
1660
1640
1620
1600

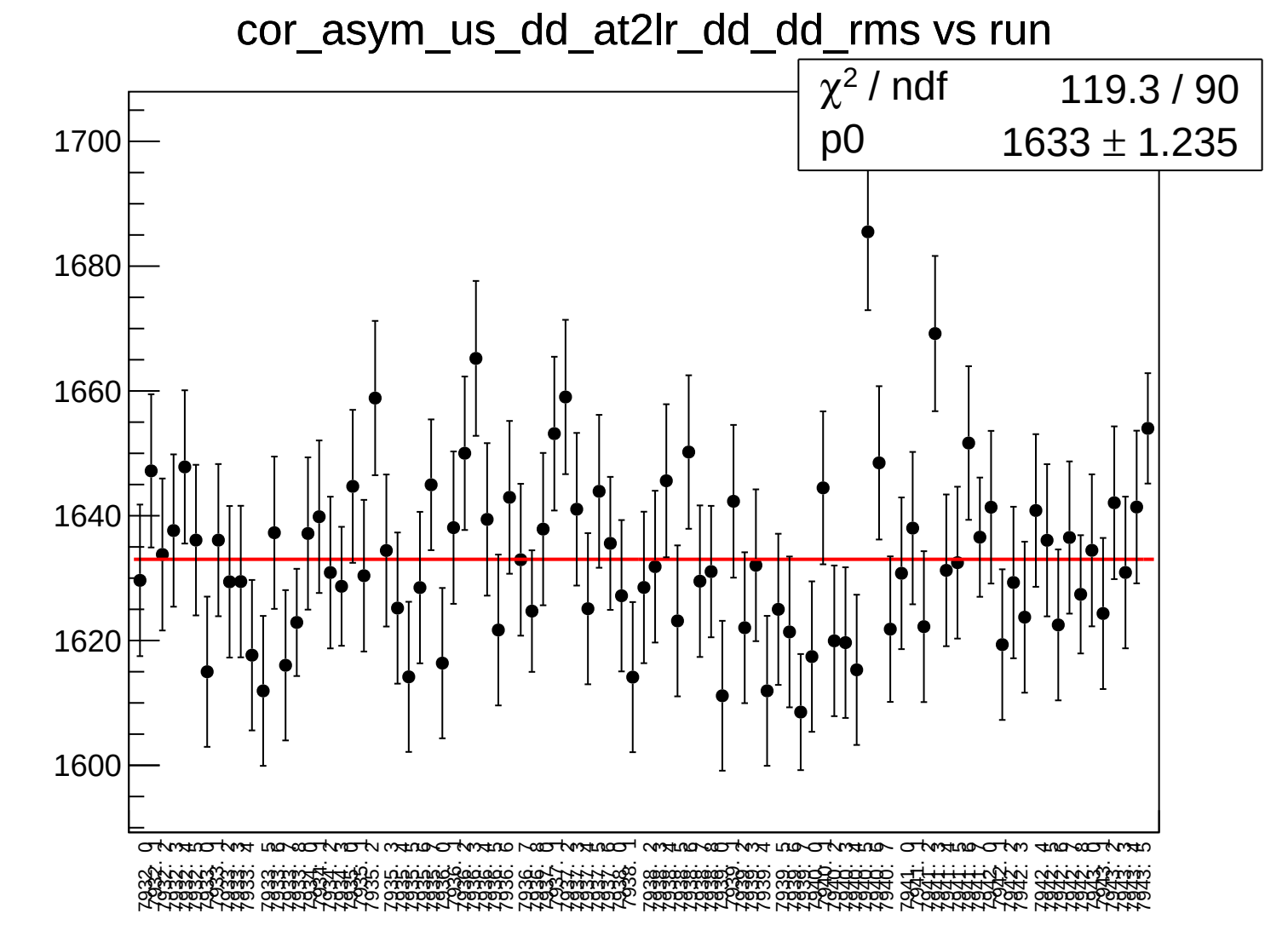

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 119.4 / 90
p0 −183.7 ± 1678
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −344.8
Std Dev 0
3
2
1
0
−1
−2

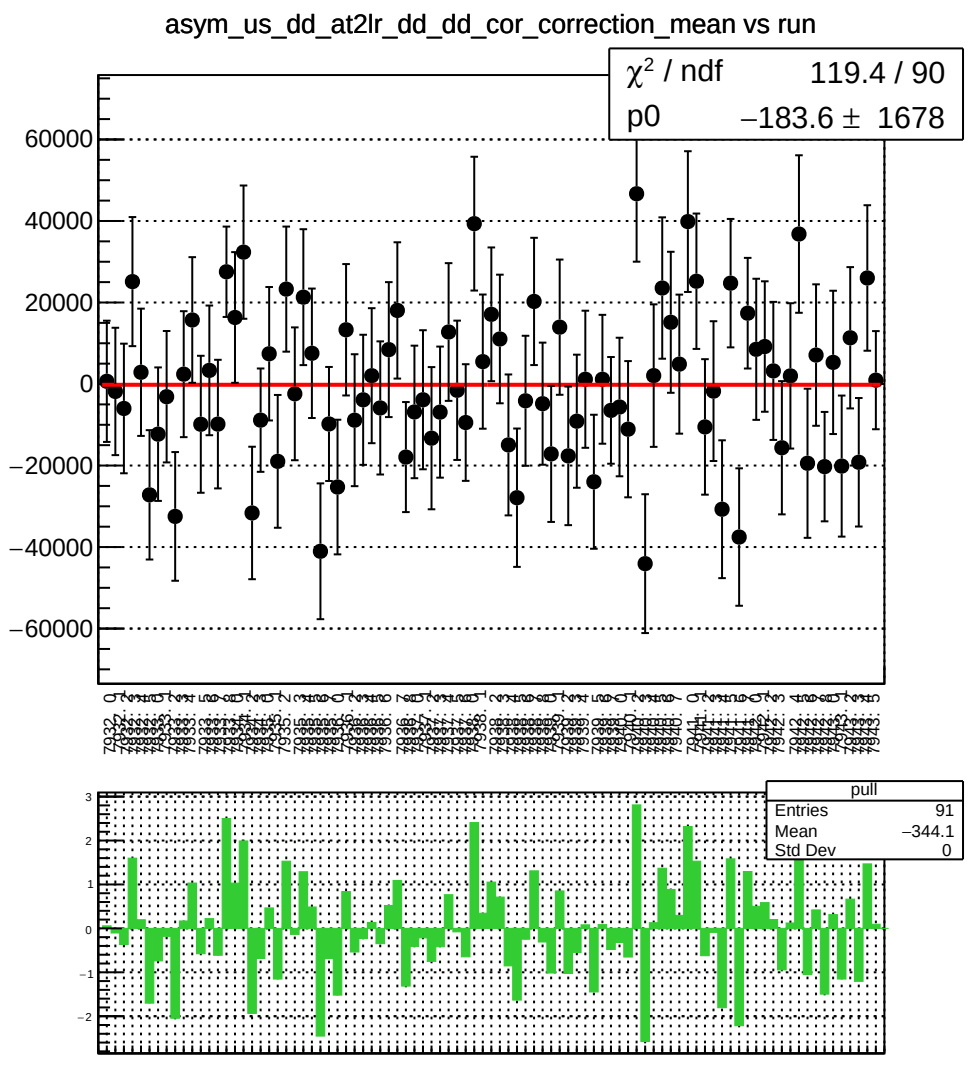

pull1D
Entries 91
Mean −0.003069
Std Dev 1.146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

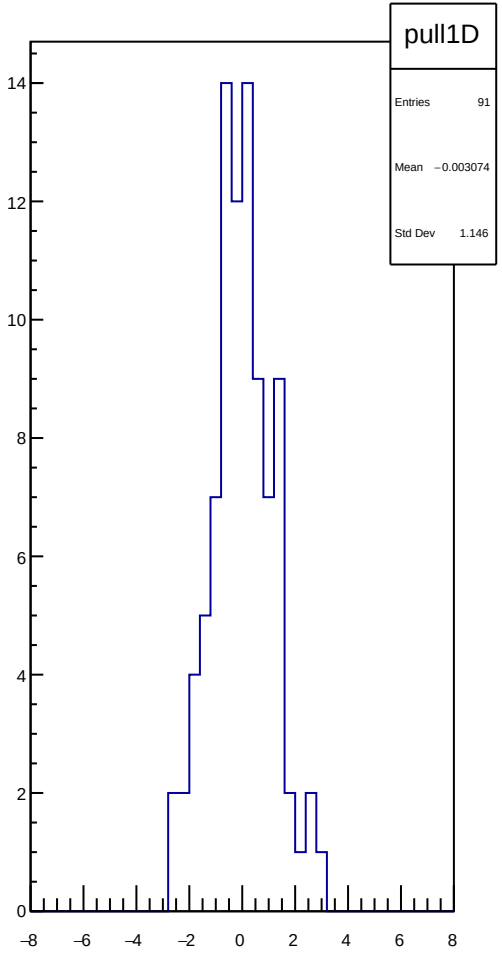

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3017 / 90
p0 1567 ± 1.186
1800
1700
1600
1500
1400

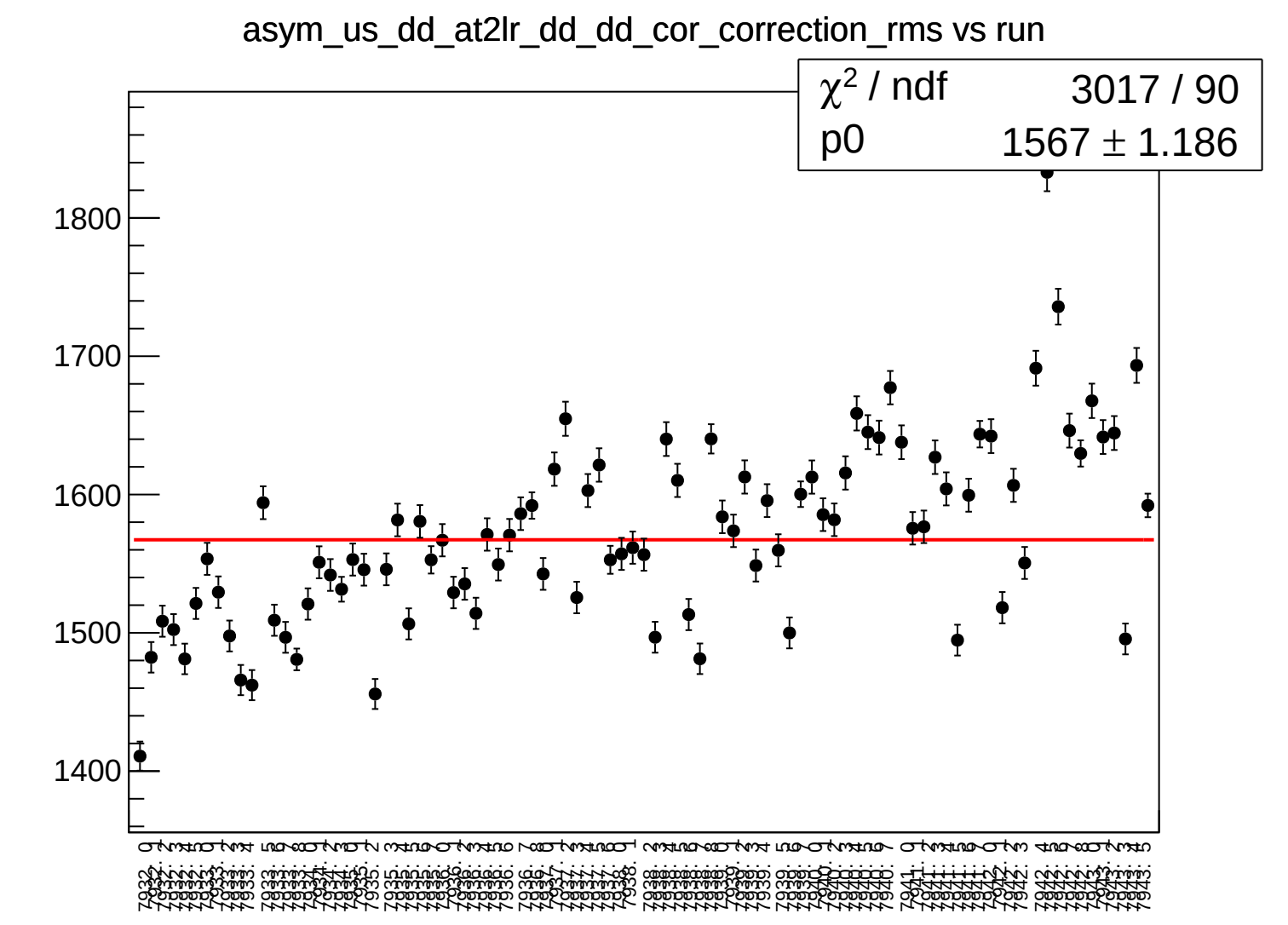

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.44 / 90
p0 2689 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 463.3
Std Dev 0
3
2
1
0
−1
−2

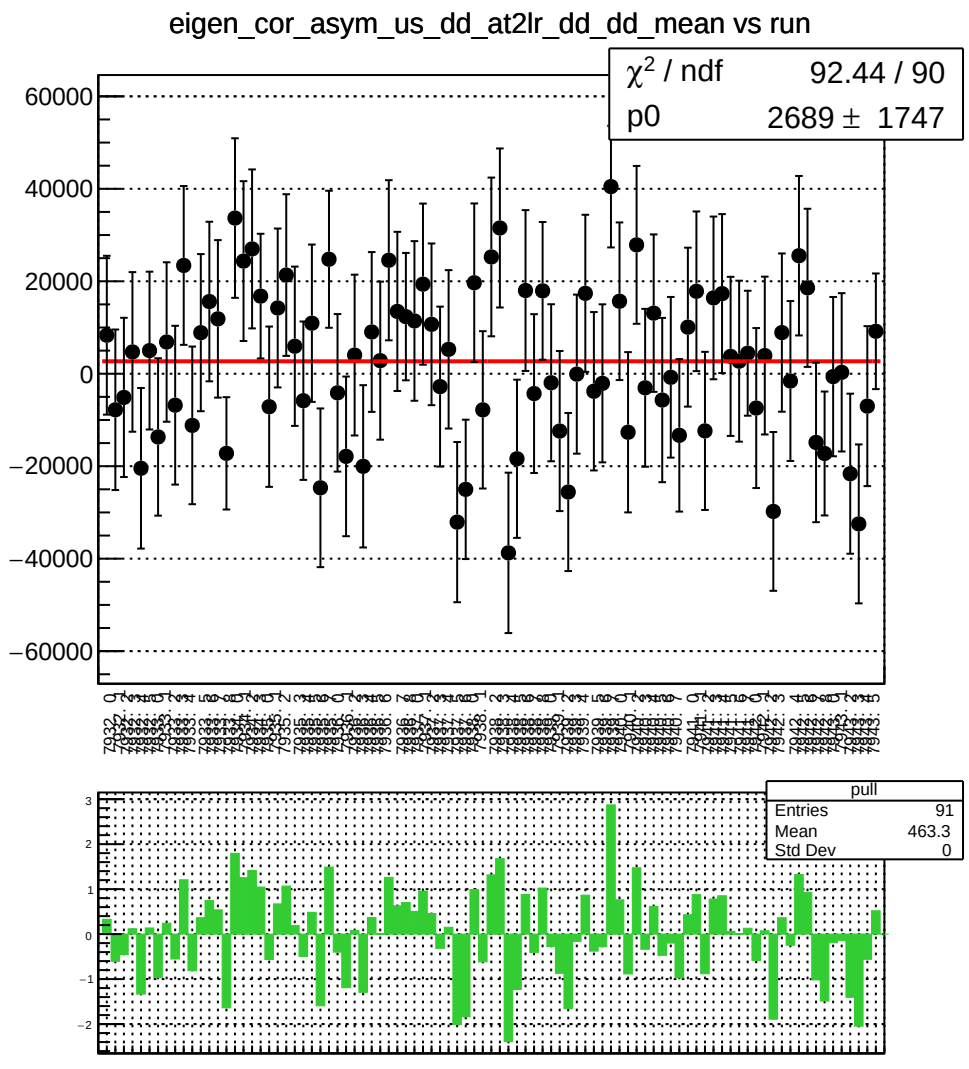

pull1D
Entries 91
Mean −0.006673
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

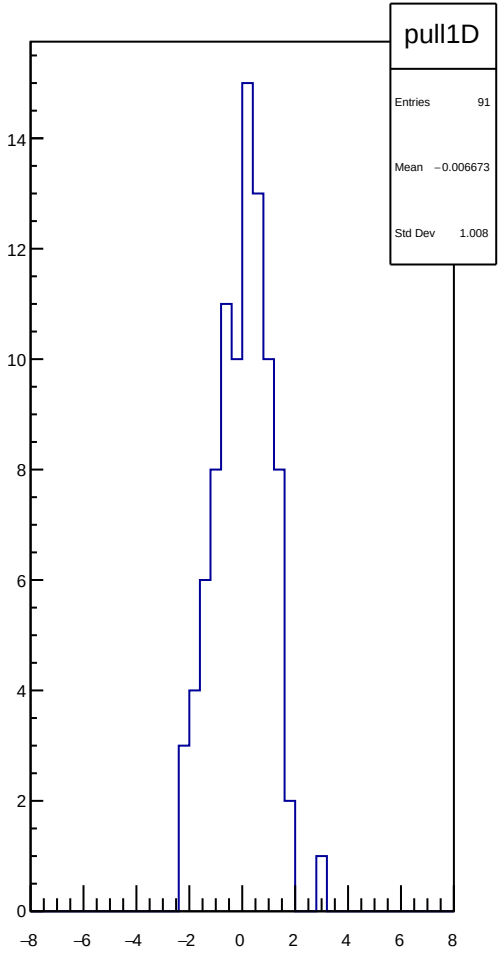

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 119.3 / 90
p0 1633 ± 1.235
1700
1680
1660
1640
1620
1600

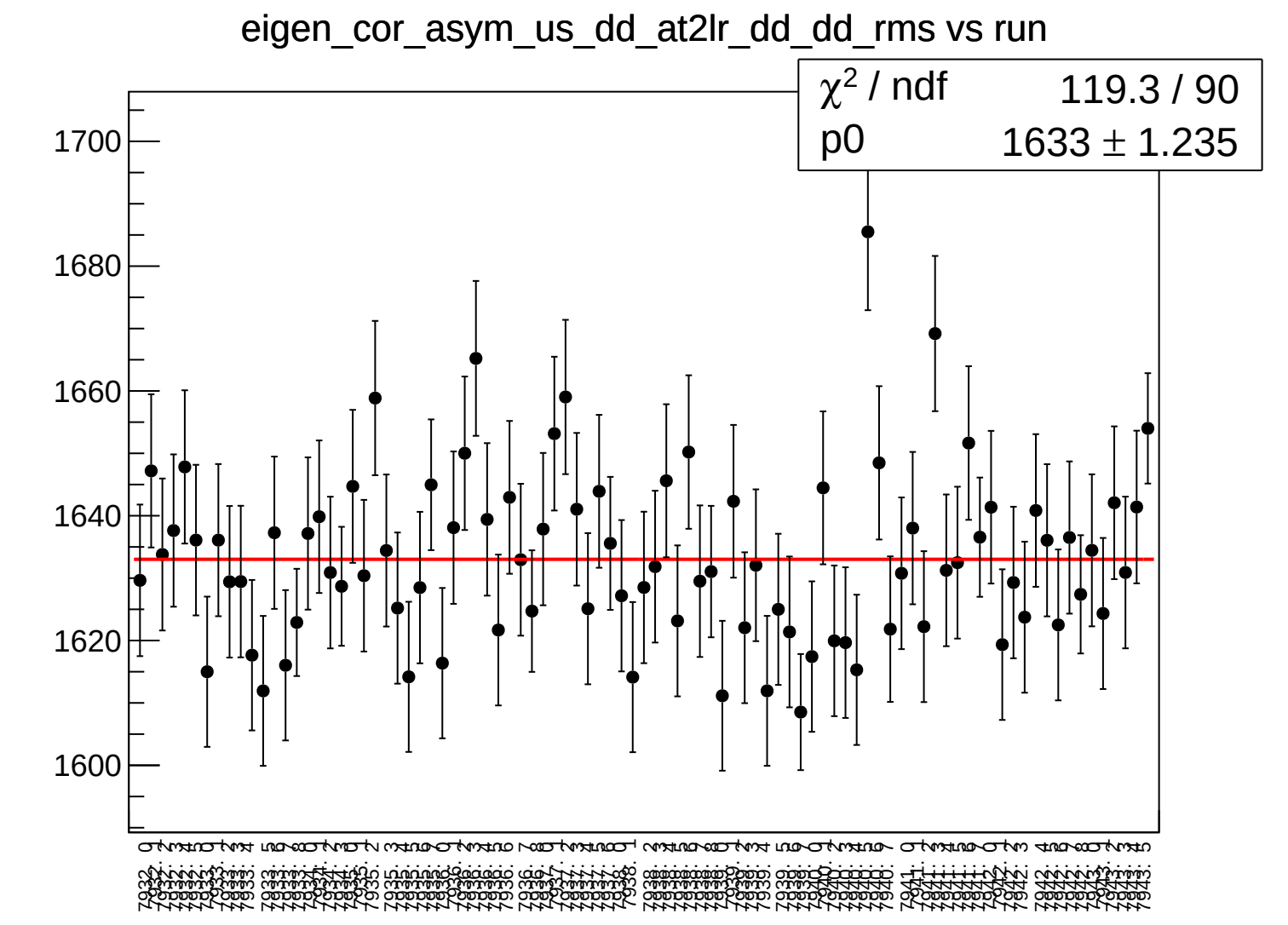

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 119.4 / 90
p0 −183.6 ± 1678
pull
Entries 91
Mean −344.1
Std Dev 0

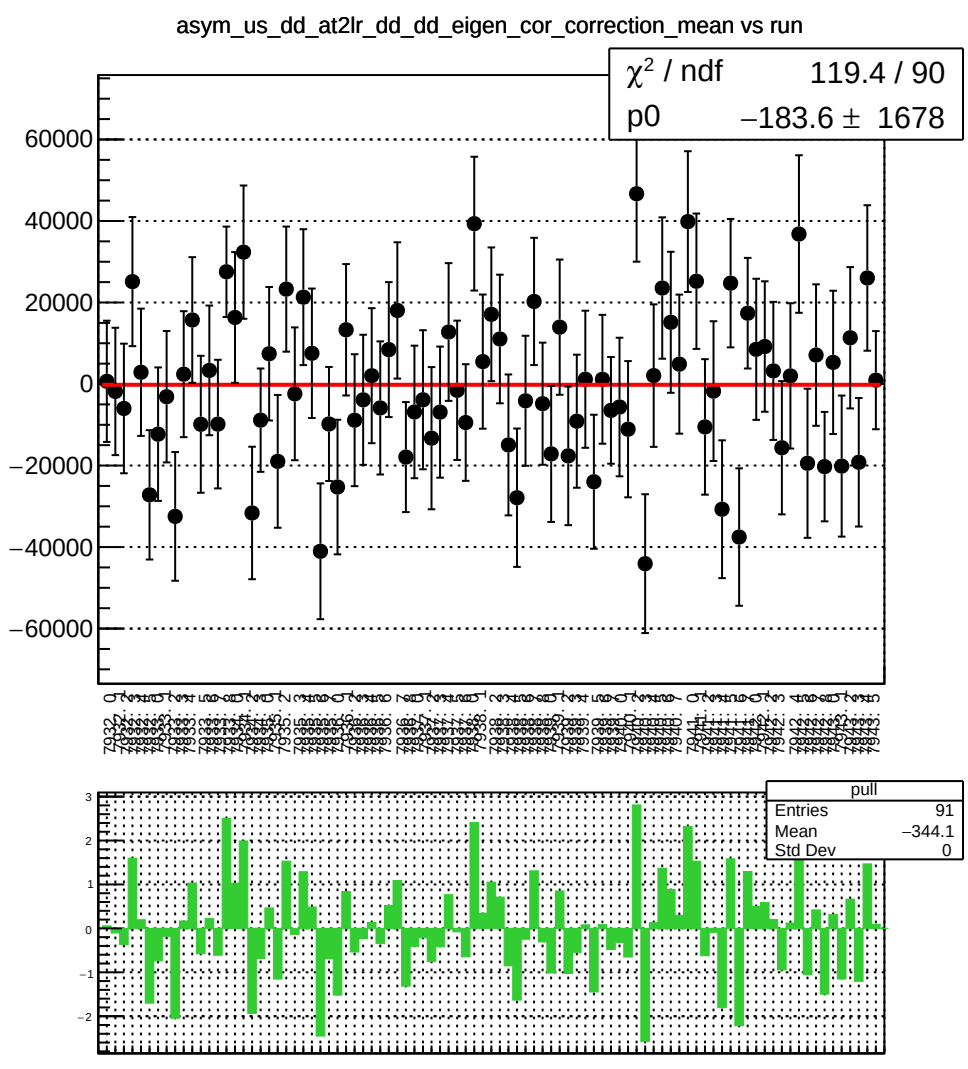

pull1D
Entries 91
Mean −0.003074
Std Dev 1.146

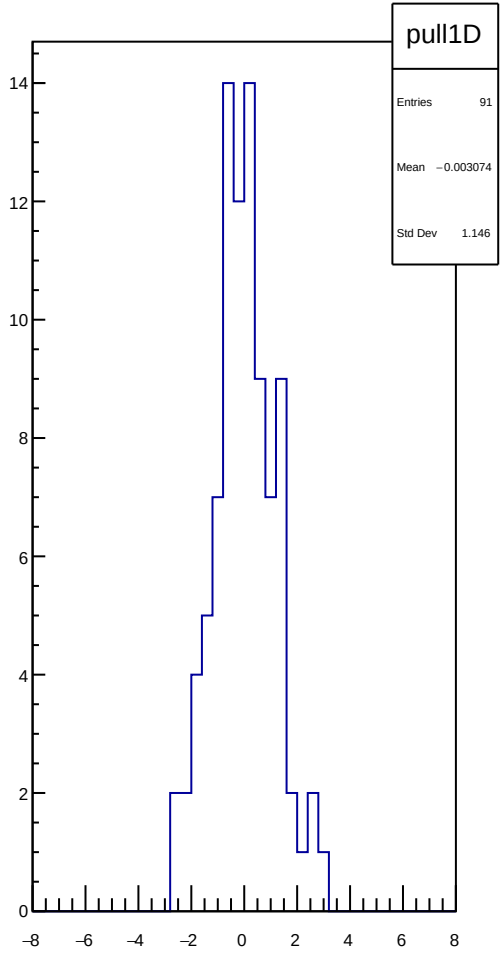

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3017 / 90
p0 1567 ± 1.186
1800
1700
1600
1500
1400

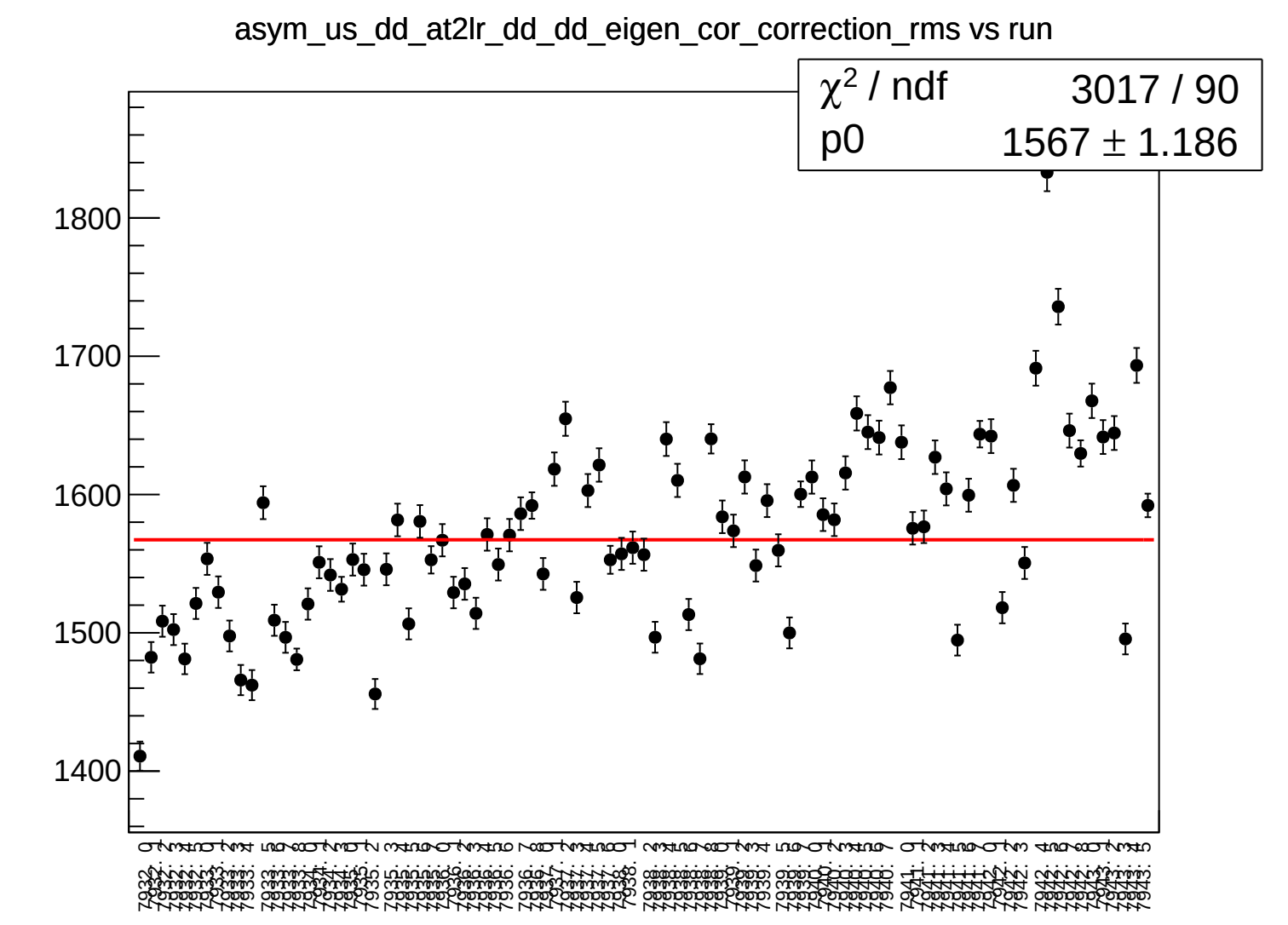

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.44 / 90
p0 2689 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 463.3
Std Dev 0
3
2
1
0
−1
−2

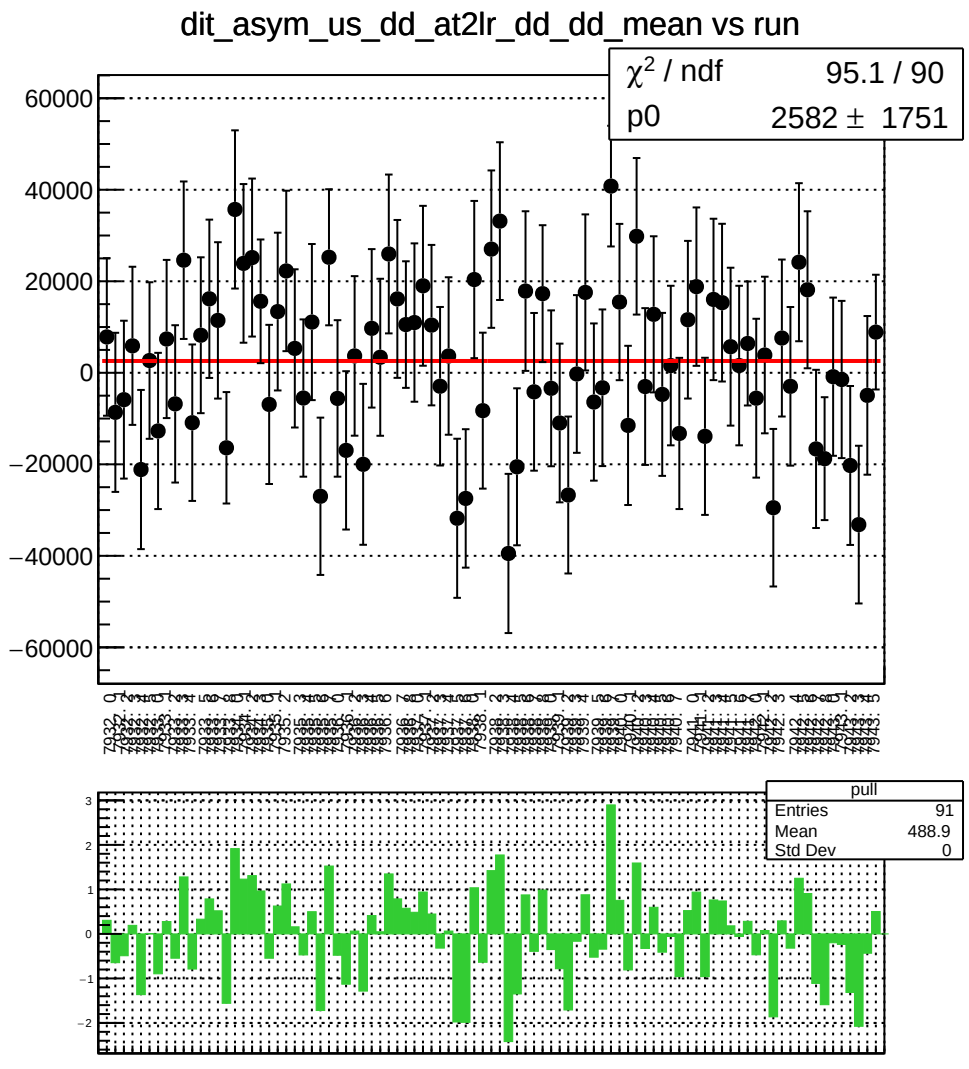

pull1D
Entries 91
Mean −0.006673
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

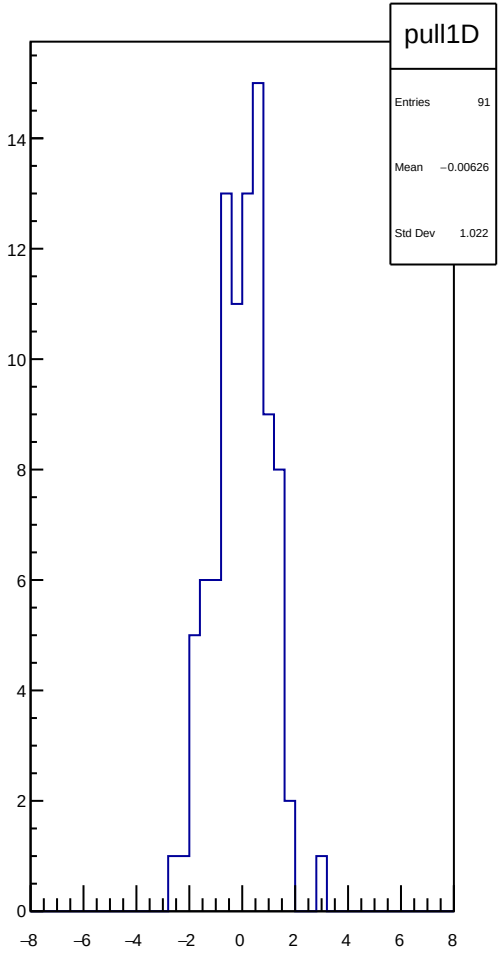

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 119.3 / 90
p0 1633 ± 1.235
1700
1680
1660
1640
1620
1600

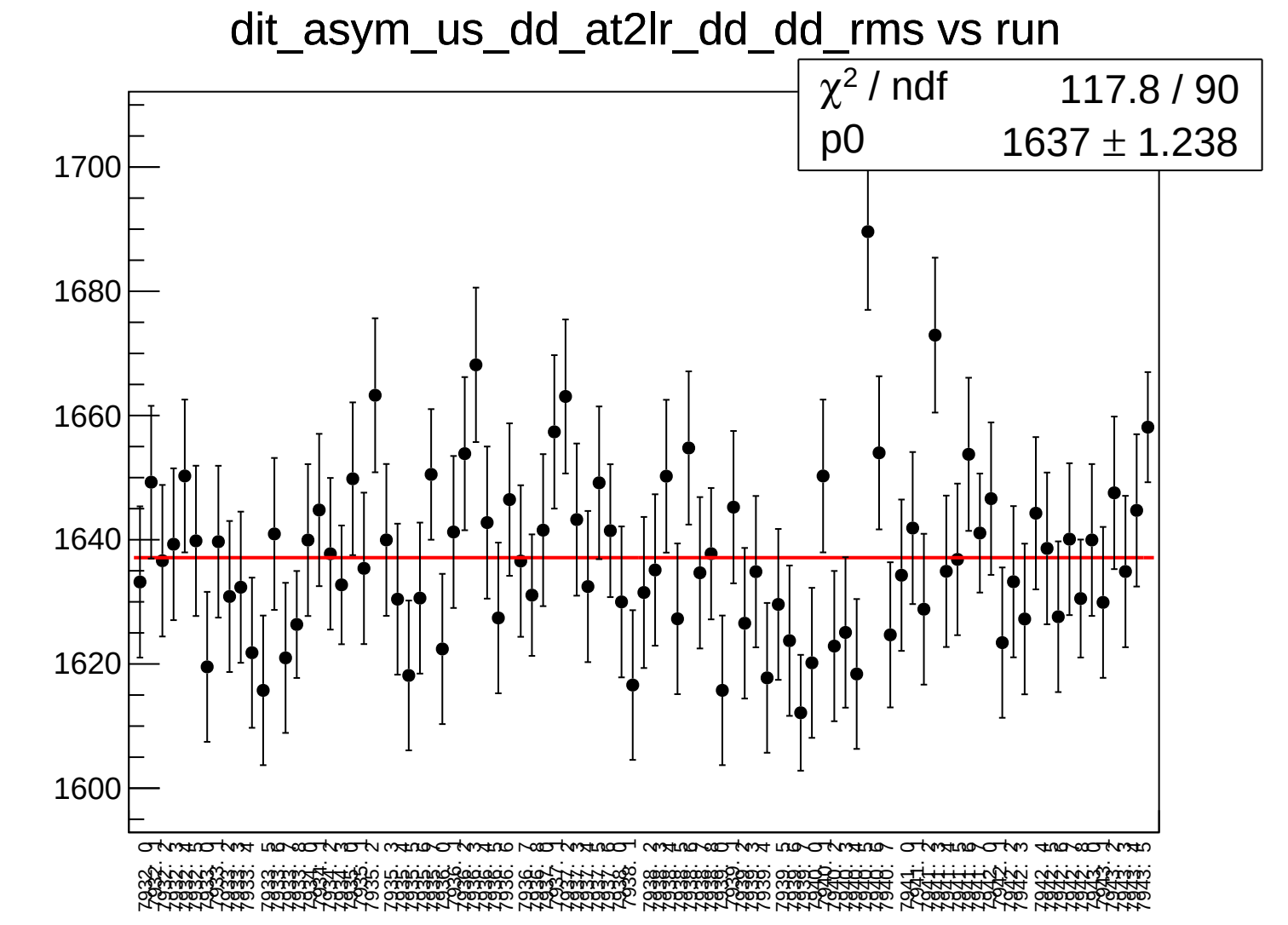

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 119.4 / 90
p0 −183.6 ± 1678
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −344.1
Std Dev 0
3
2
1
0
−1
−2

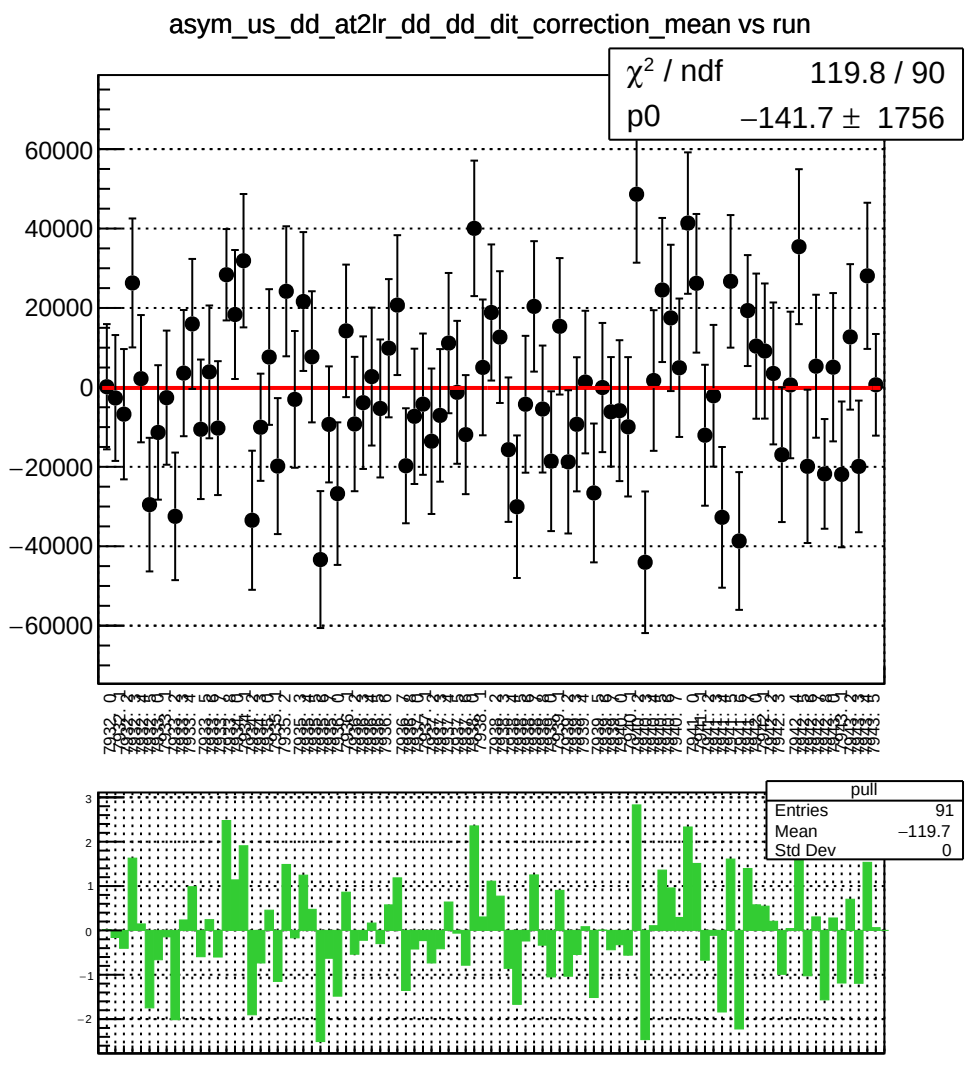

pull1D
Entries 91
Mean −0.003074
Std Dev 1.146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

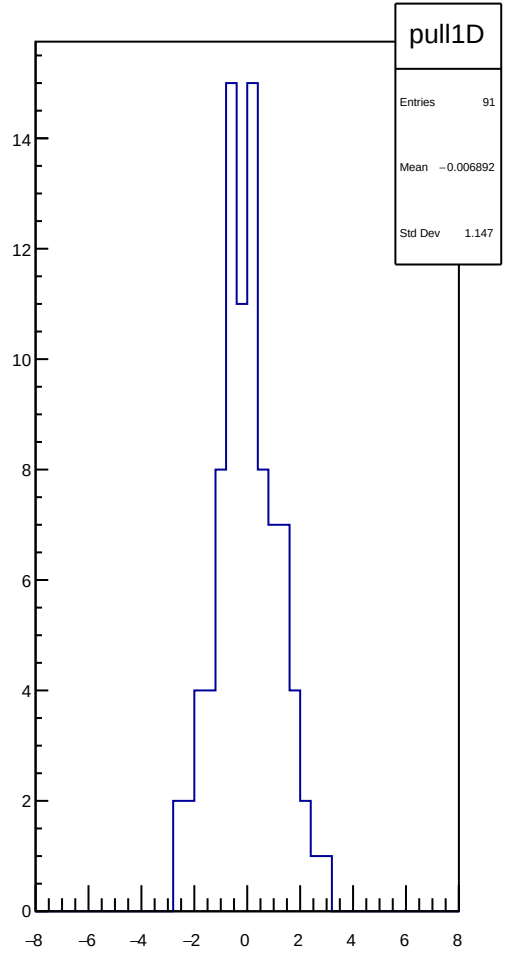

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3017 / 90
p0 1567 ± 1.186
1800
1700
1600
1500
1400

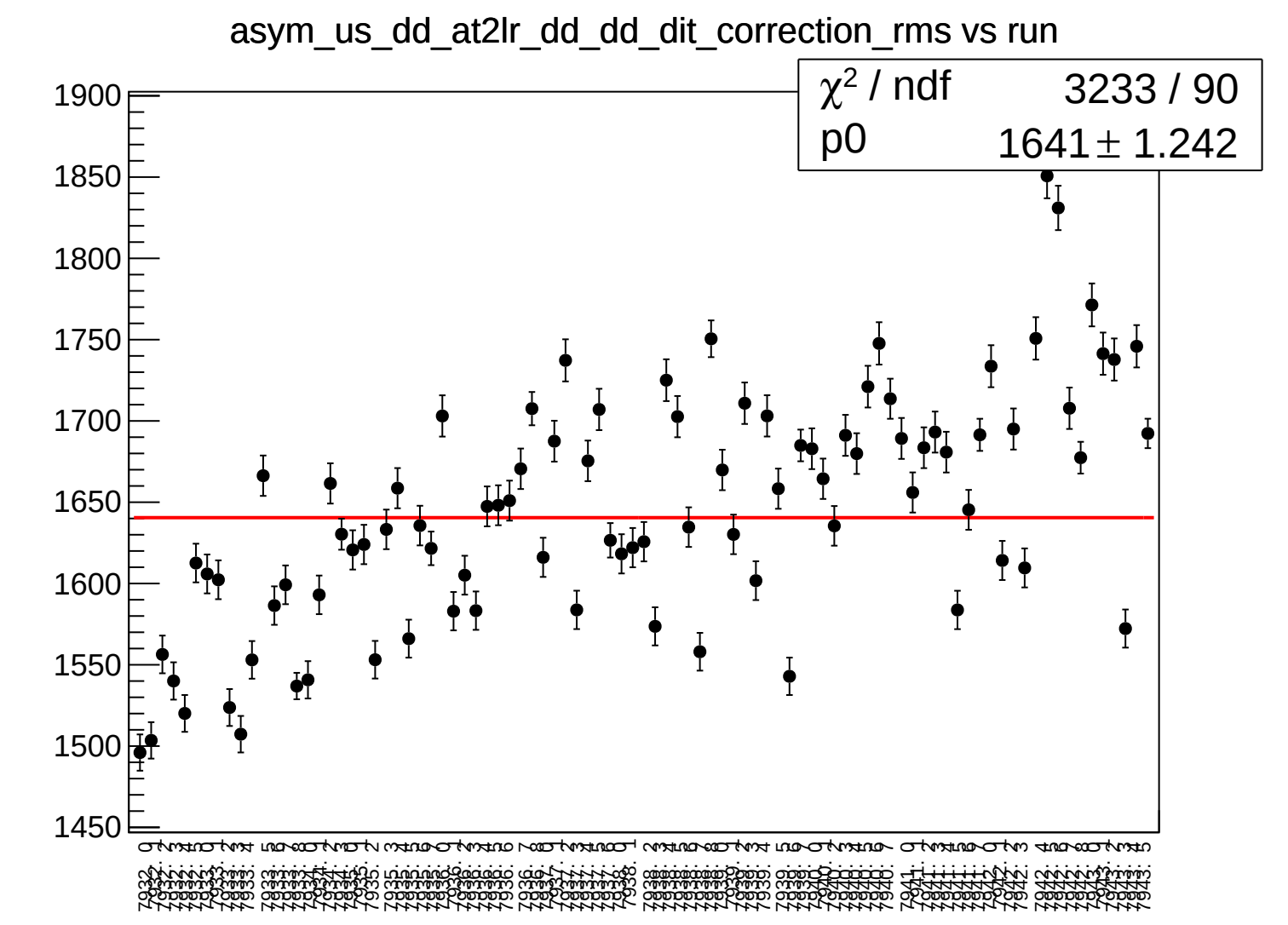

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.1 / 90
p0 2582 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 488.9
Std Dev 0
3
2
1
0
−1
−2

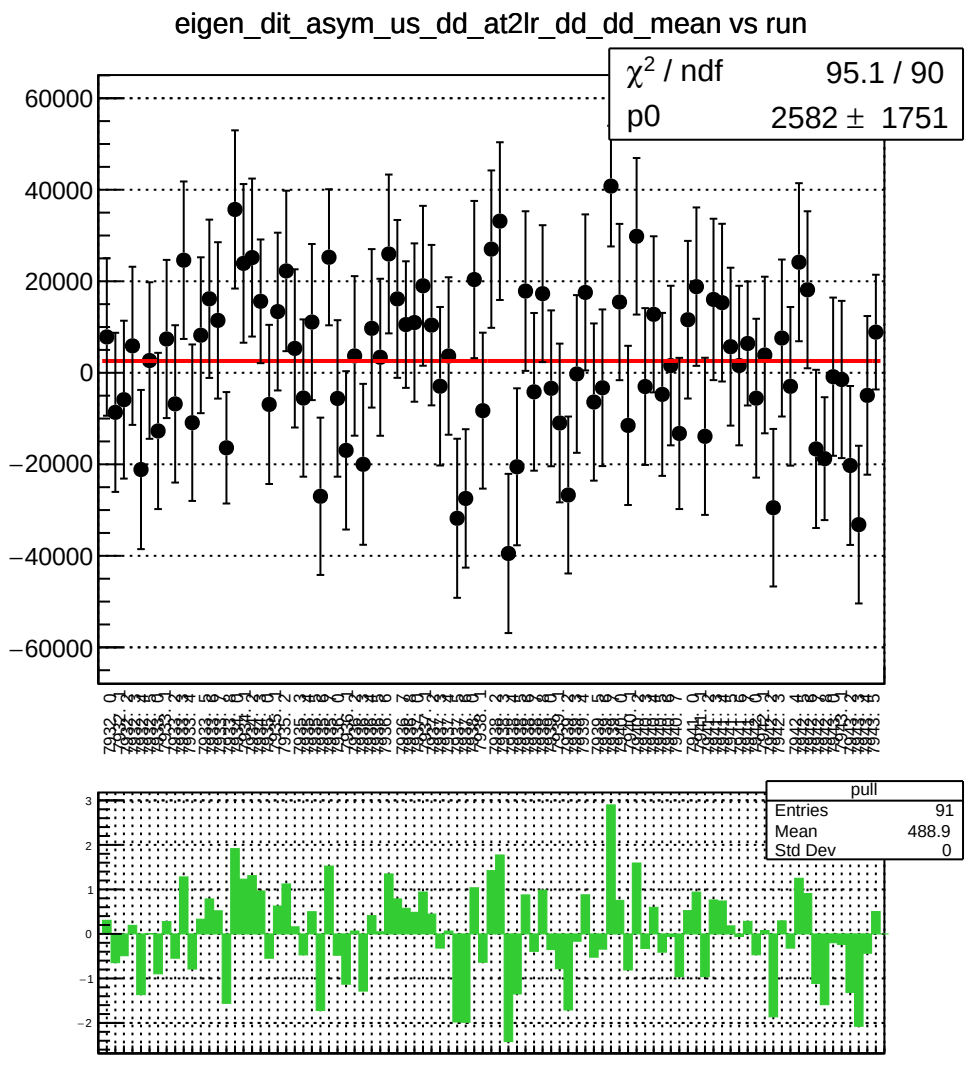

pull1D
Entries 91
Mean −0.00626
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

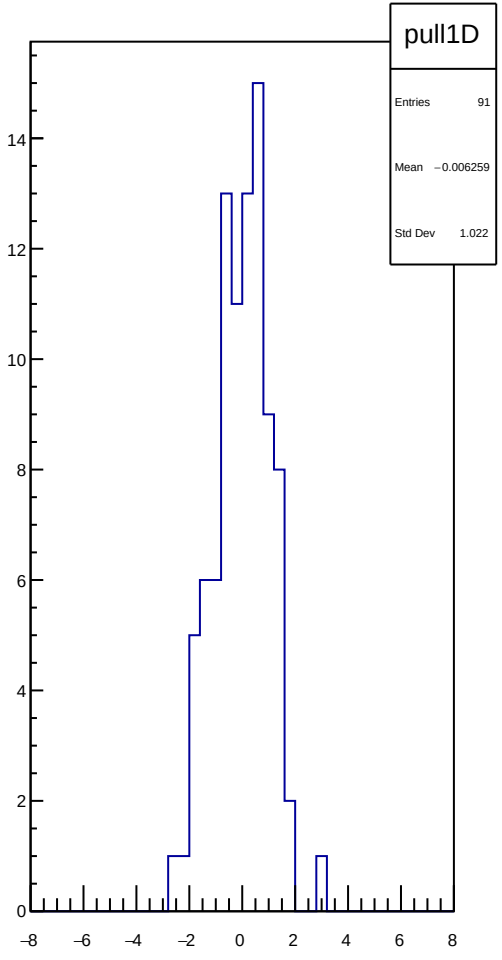

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 117.8 / 90
p0 1637 ± 1.238
1700
1680
1660
1640
1620
1600

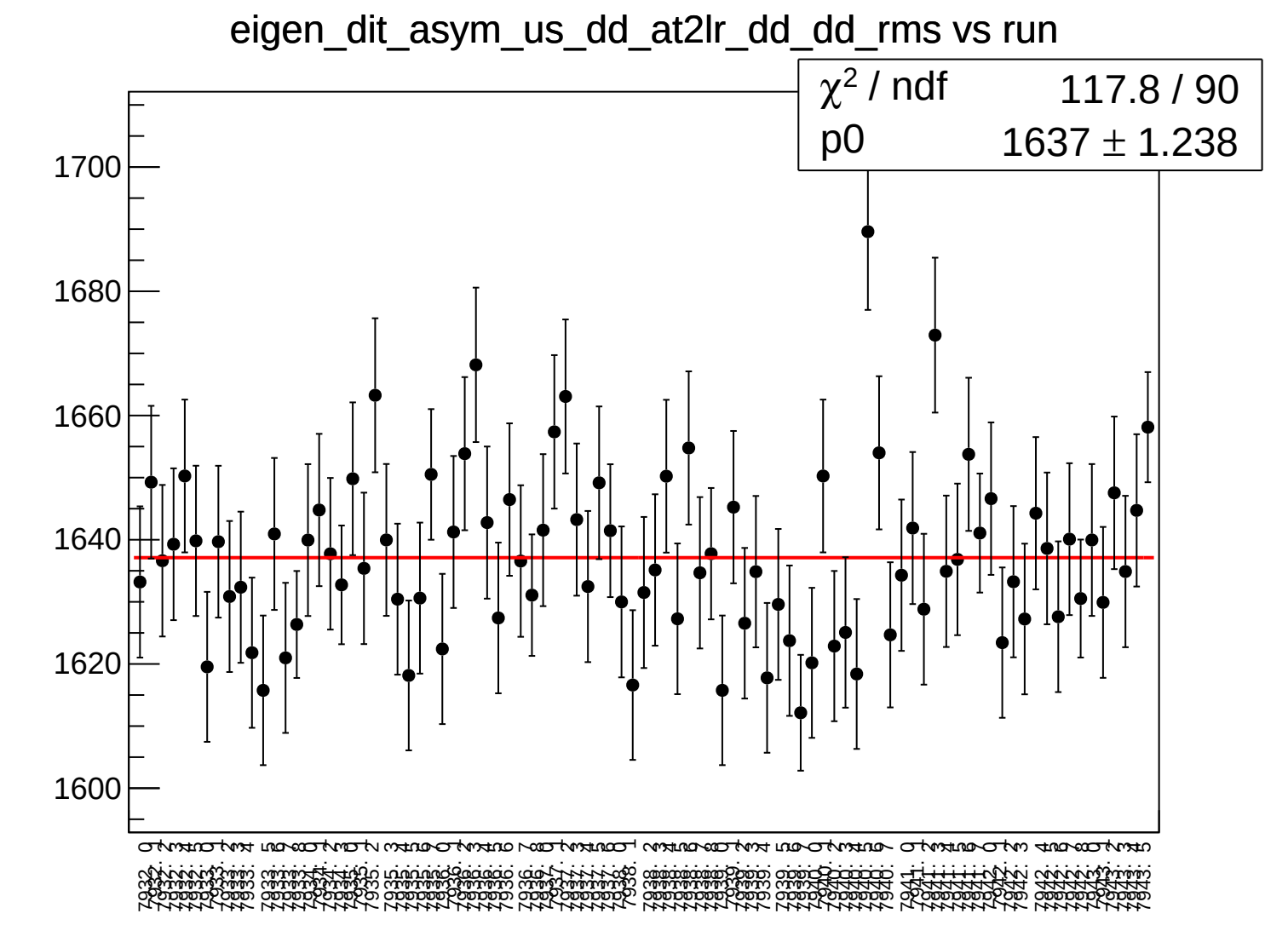

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 119.8 / 90
p0 −141.7 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −119.7
Std Dev 0
3
2
1
0
−1
−2

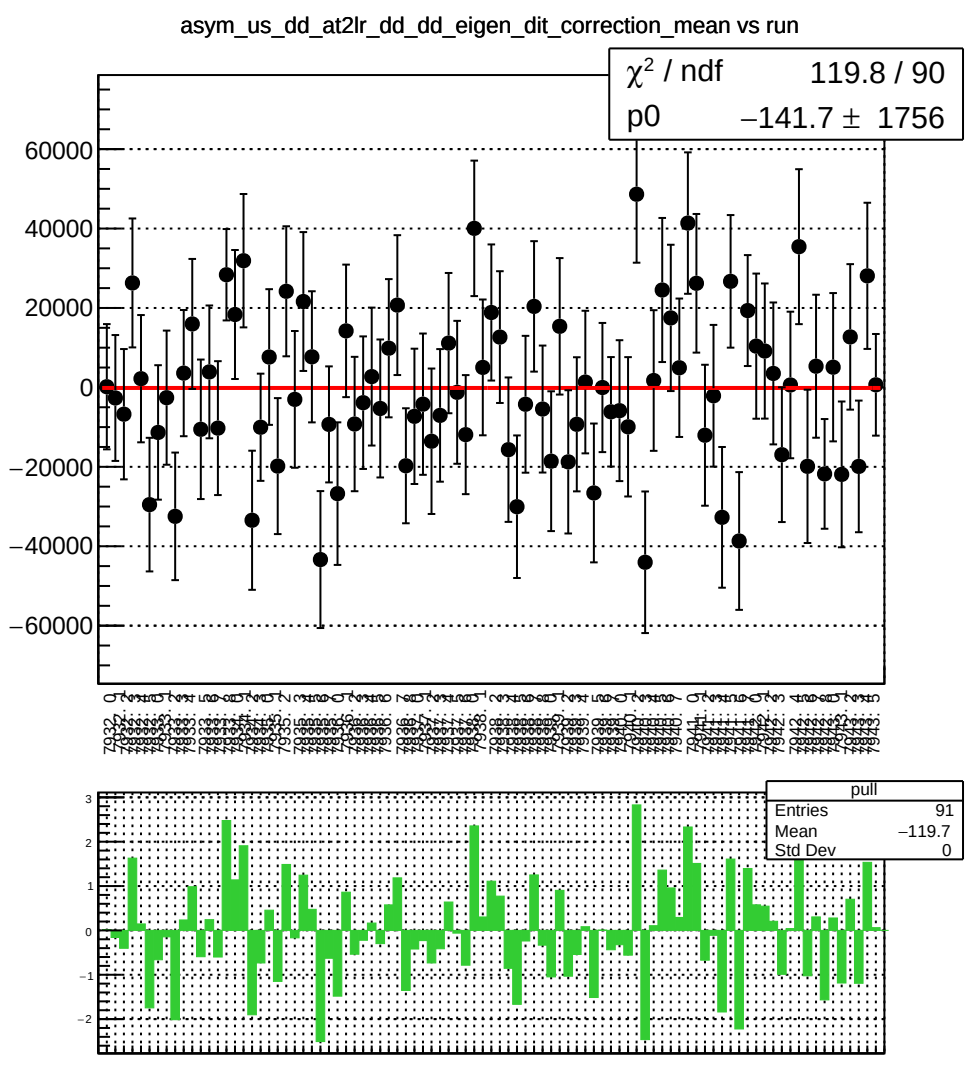

pull1D
Entries 91
Mean −0.006892
Std Dev 1.147
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

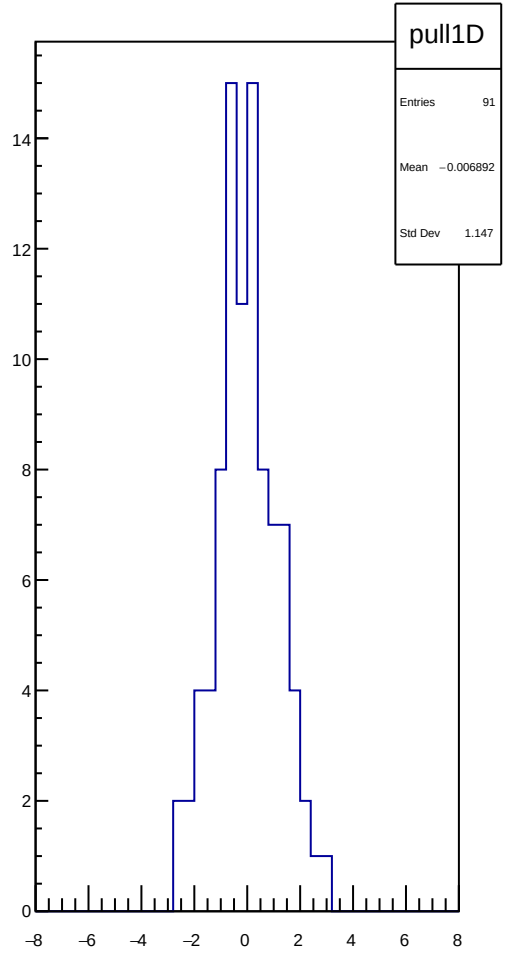

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3233 / 90
p0 1641 ± 1.242
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

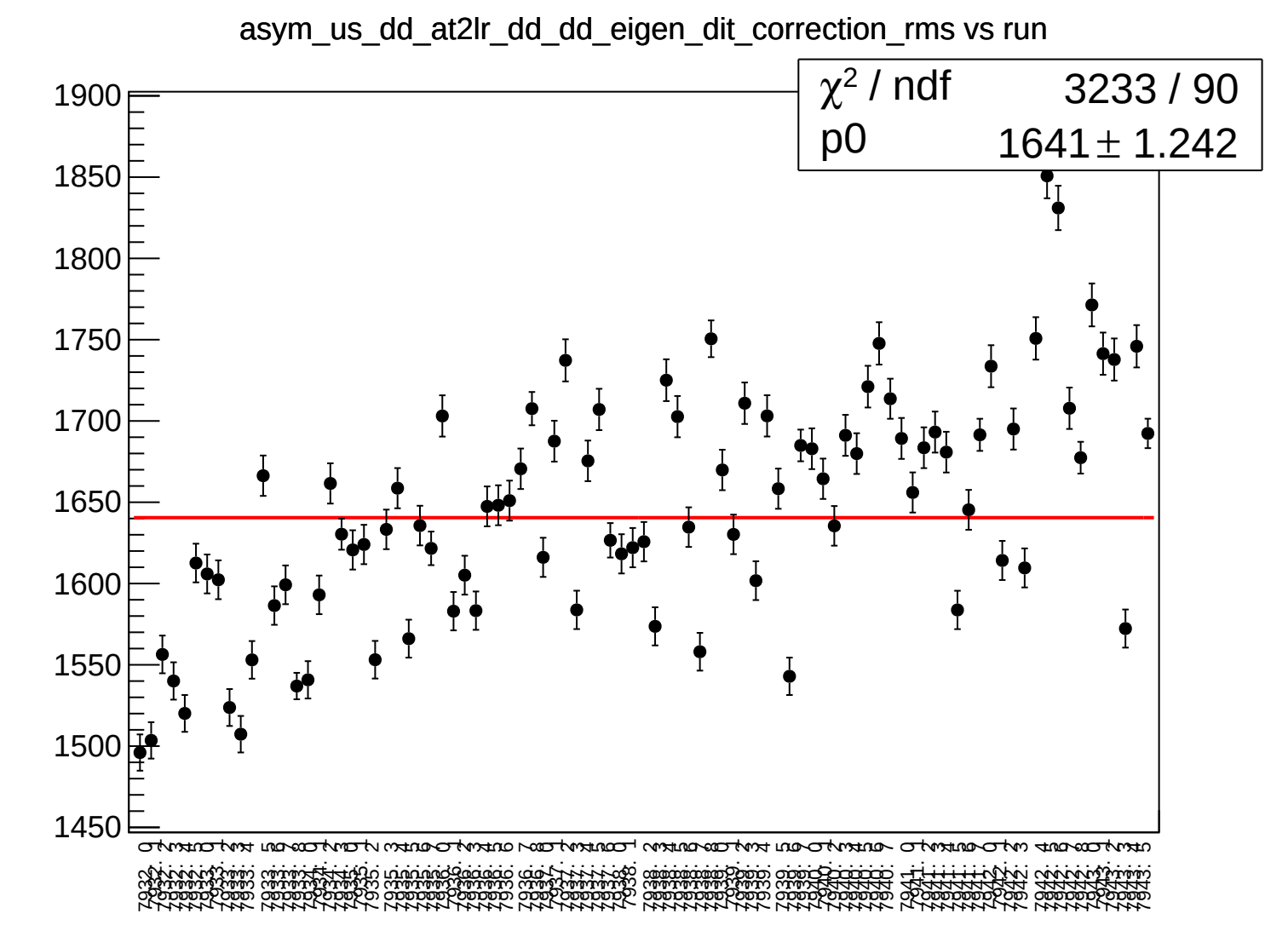

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.1 / 90
p0 2582 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 488.9
Std Dev 0
3
2
1
0
−1
−2

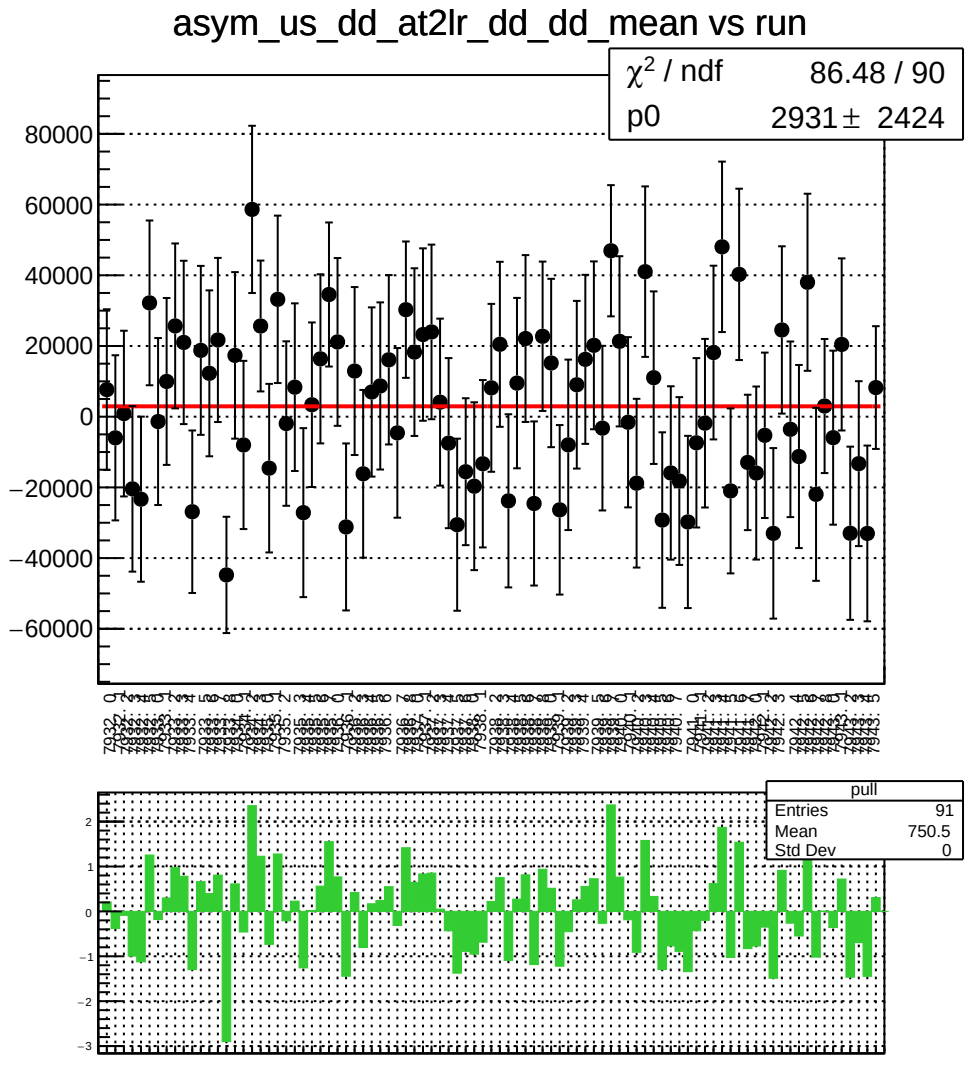

pull1D
Entries 91
Mean −0.006259
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

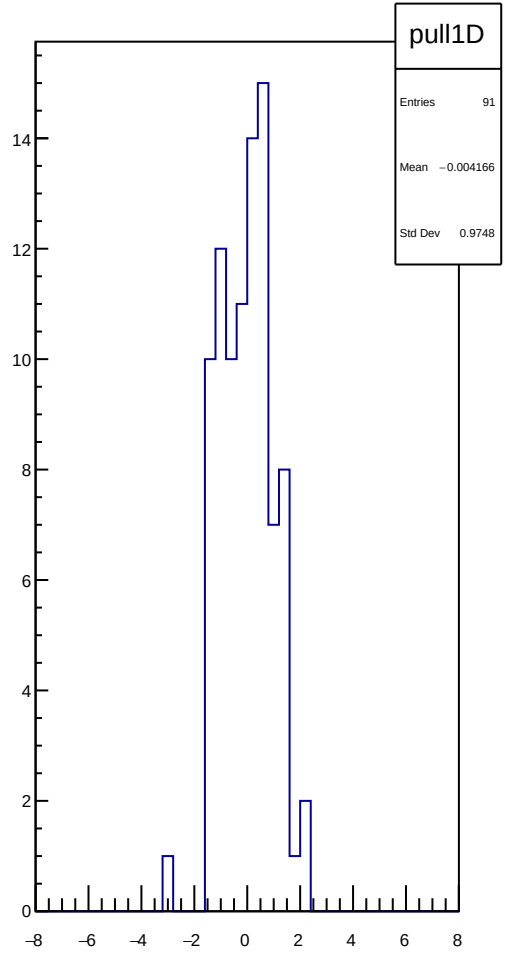

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 117.8 / 90
p0 1637 ± 1.238
1700
1680
1660
1640
1620
1600

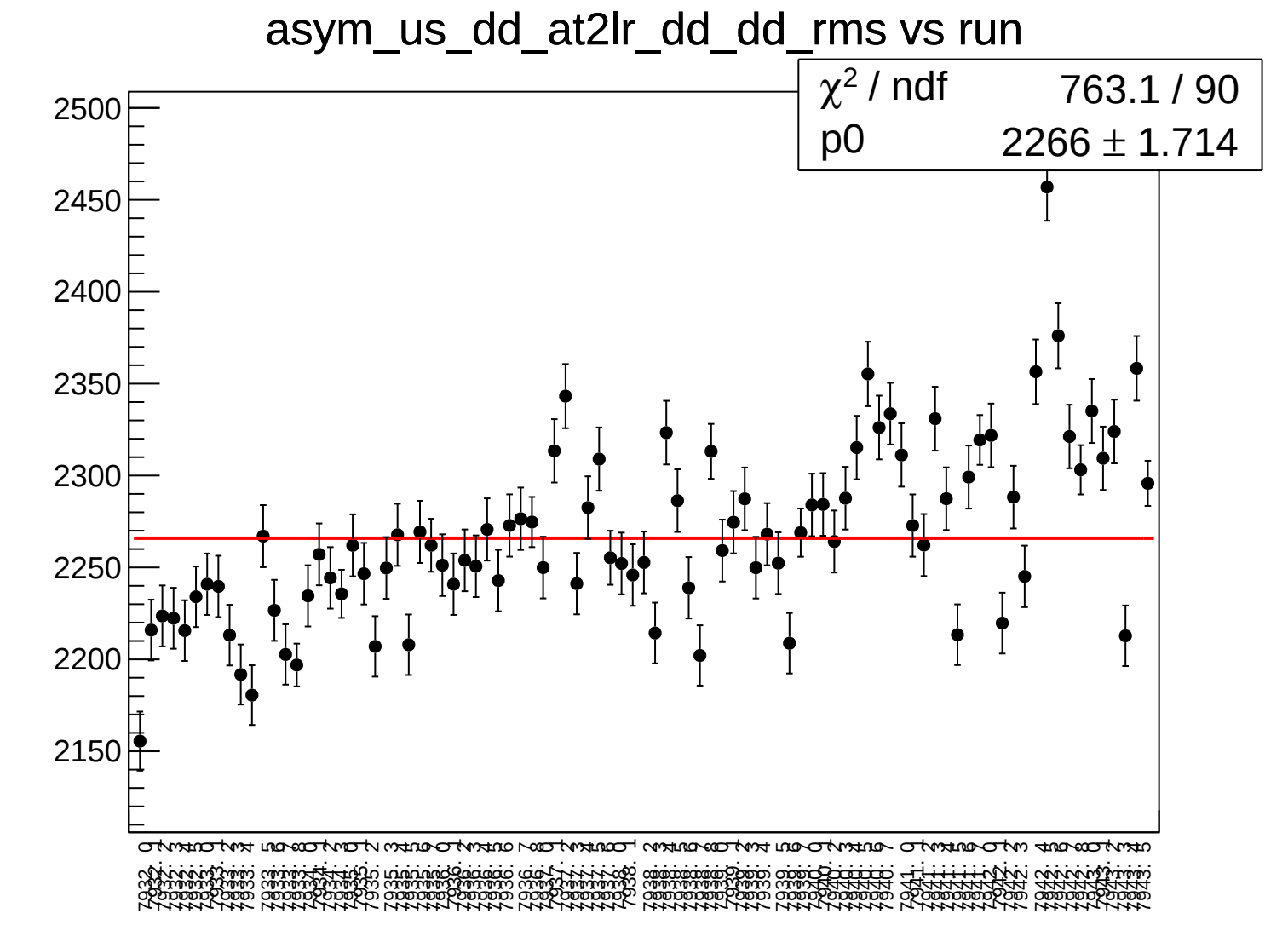

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 119.8 / 90
p0 −141.7 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −119.7
Std Dev 0
3
2
1
0
−1
−2

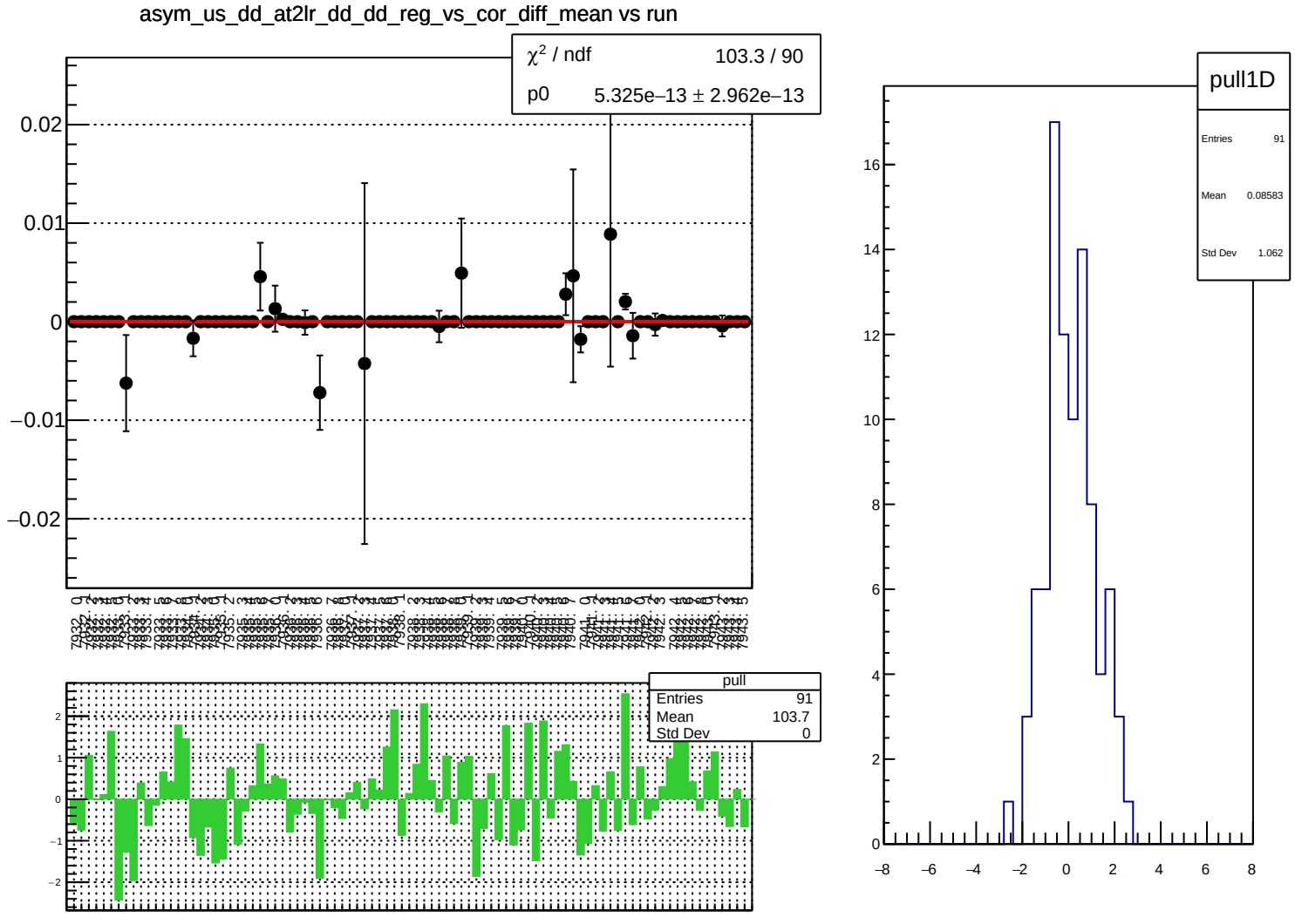

pull1D
Entries 91
Mean −0.006892
Std Dev 1.147
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

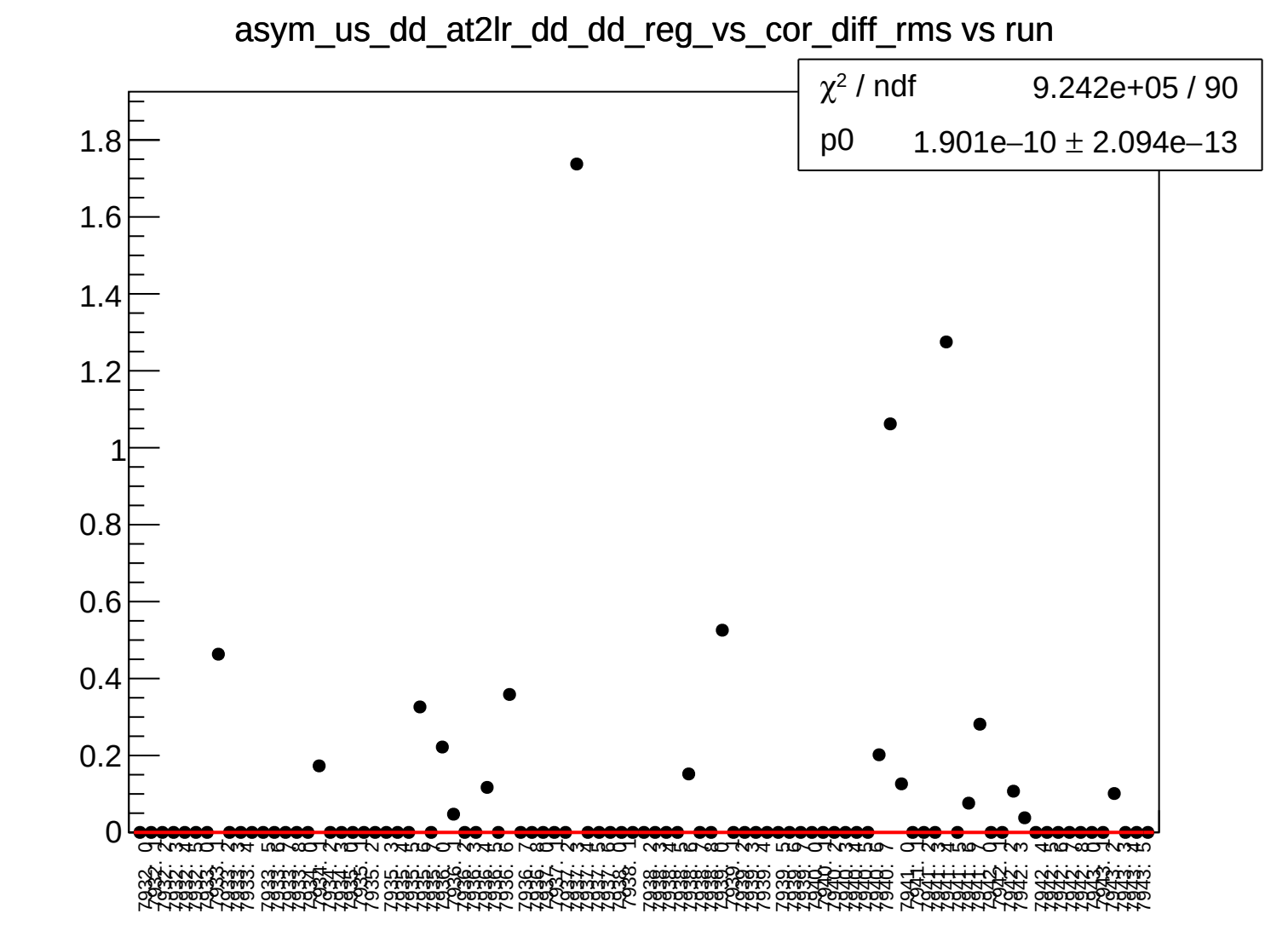

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3233 / 90
p0 1641 ± 1.242
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

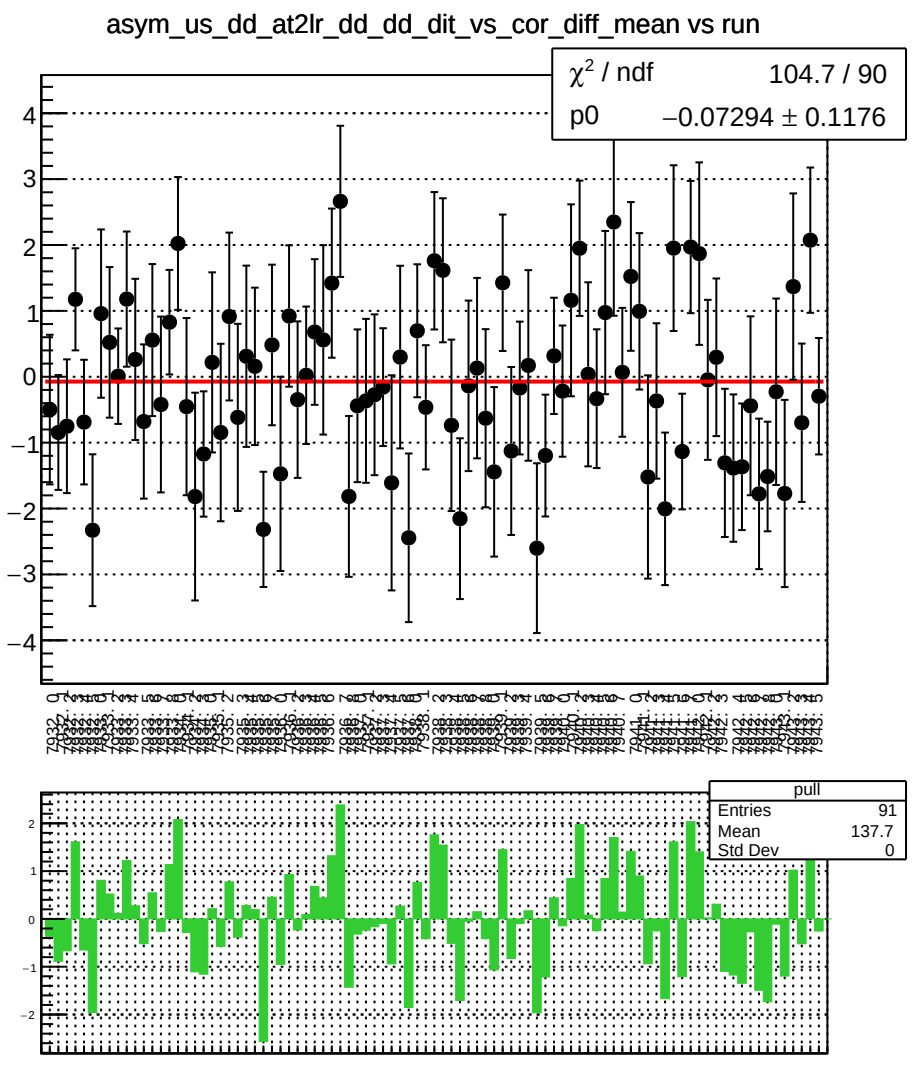

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.48 / 90
p0 2931 ± 2424
pull
Entries 91
Mean 750.5
Std Dev 0

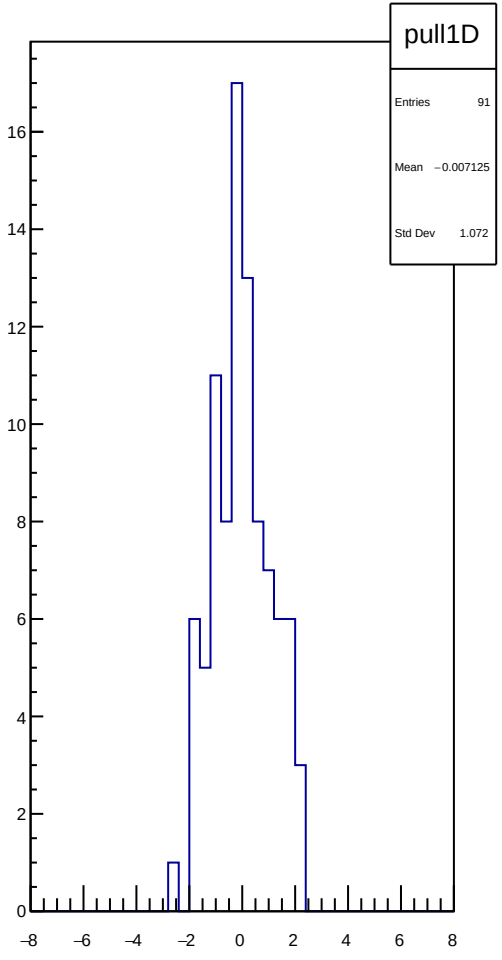

pull1D
Entries 91
Mean −0.004166
Std Dev 0.9748

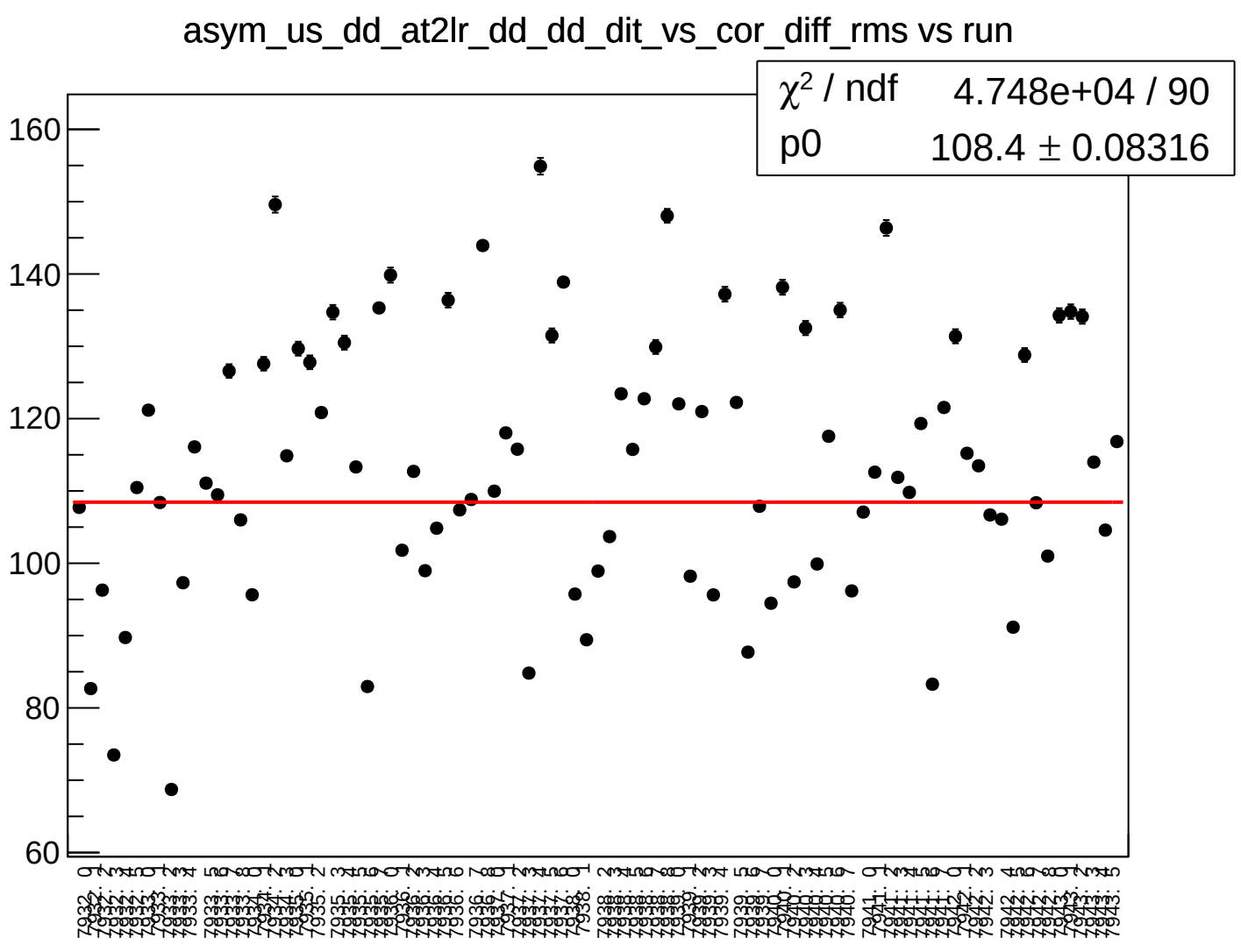

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 763.1 / 90
p0 2266 ± 1.714
2500
2450
2400
2350
2300
2250
2200
2150

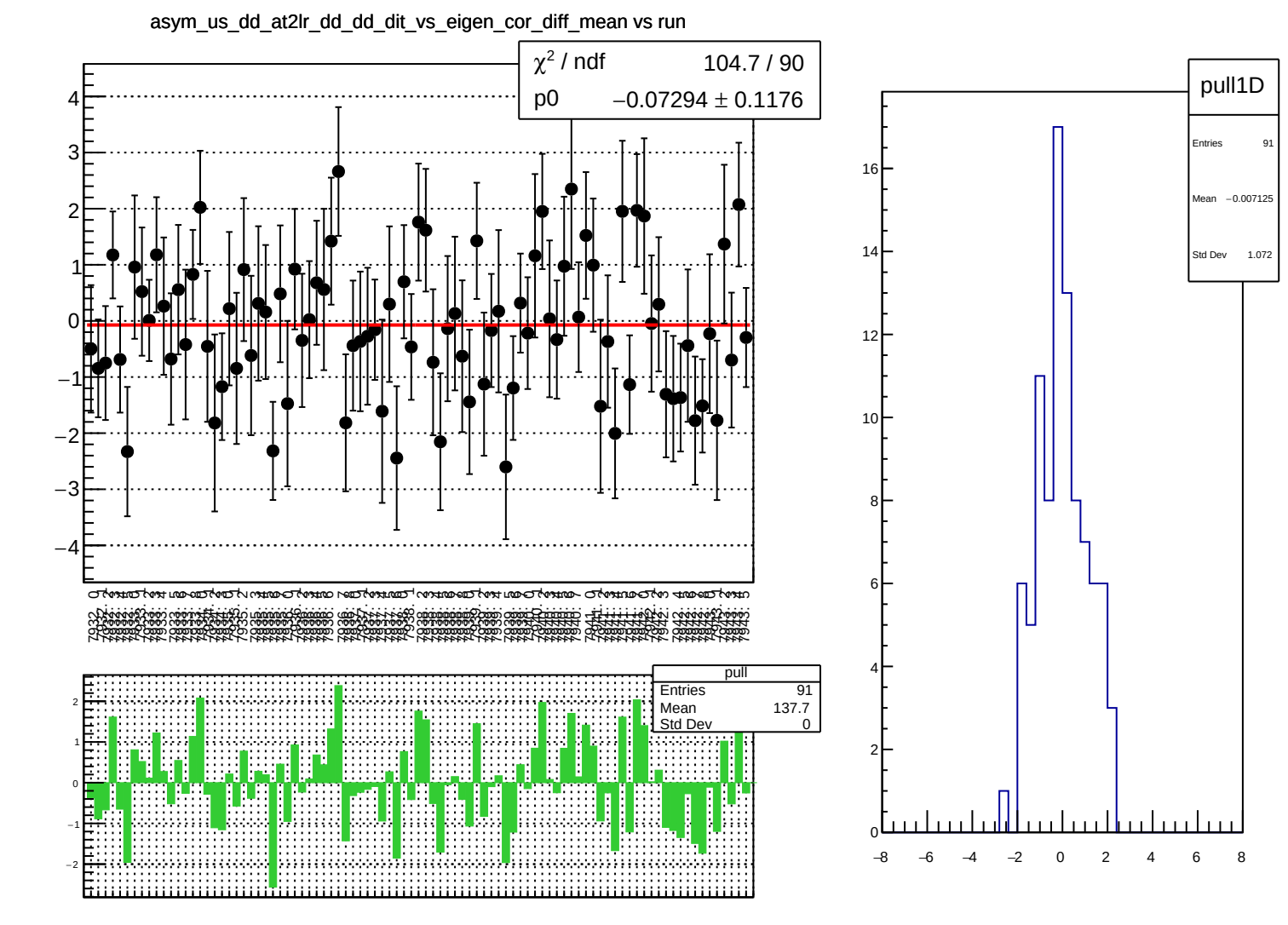

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 90
p0 5.325e−13 ± 2.962e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 103.7
Std Dev 0
pull1D
Entries 91
Mean 0.08583
Std Dev 1.062

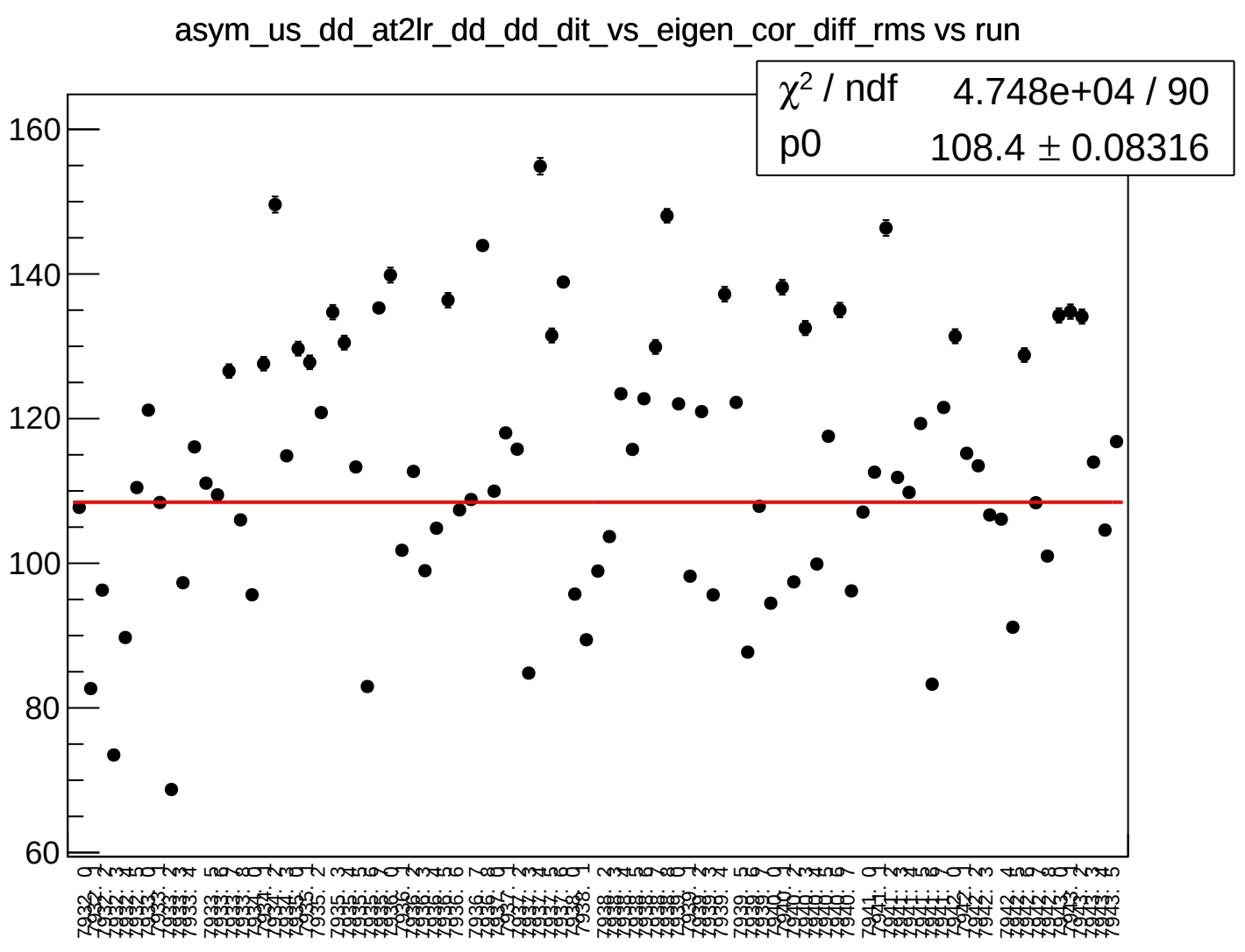

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.242e+05 / 90
p0 1.901e−10 ± 2.094e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

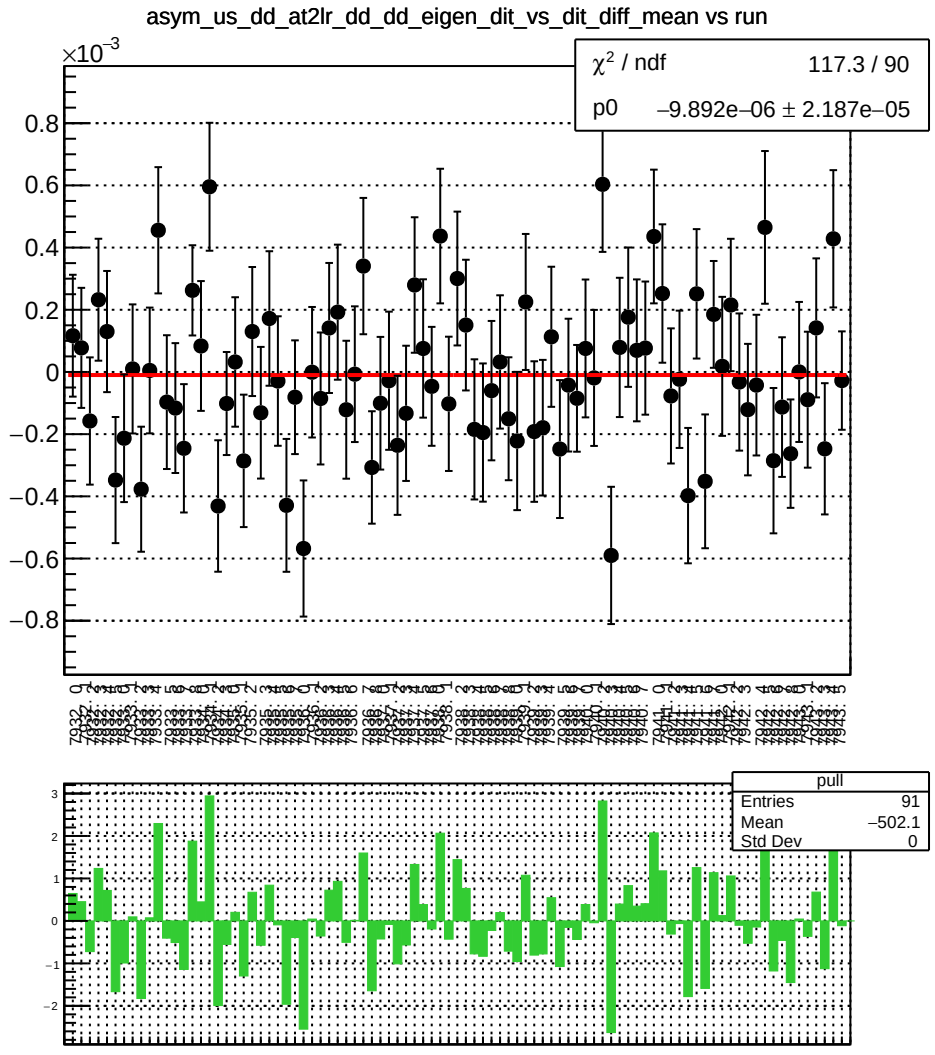

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.07294 ± 0.1176
pull
Entries 91
Mean 137.7
Std Dev 0

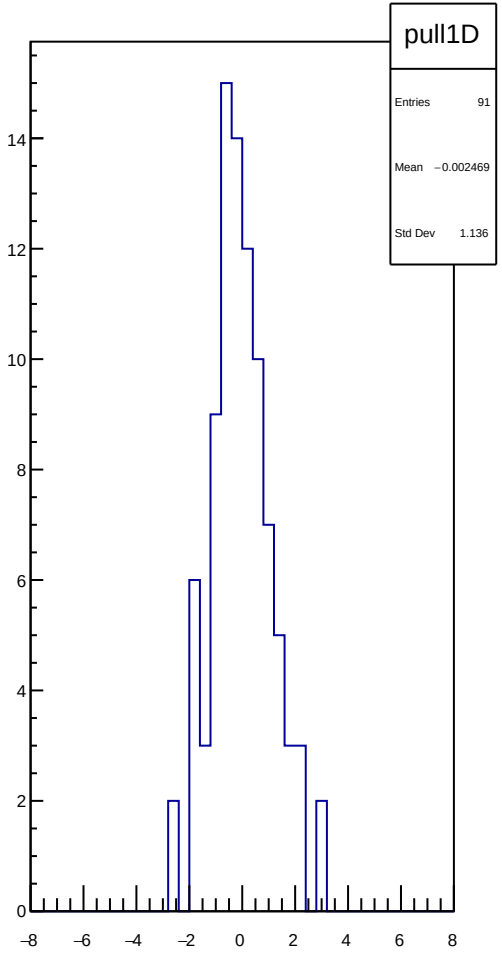

pull1D
Entries 91
Mean −0.007125
Std Dev 1.072

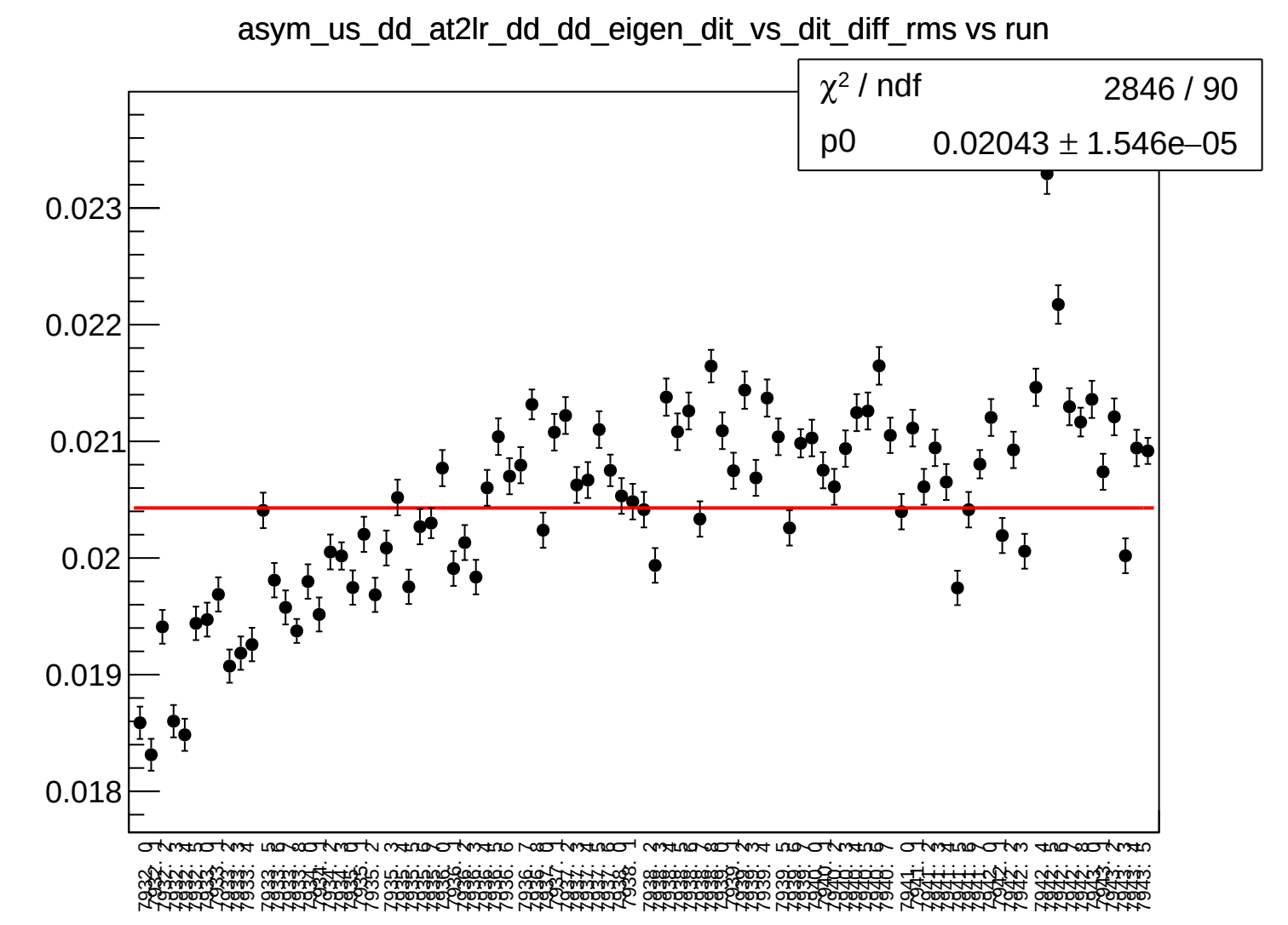

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.748e+04 / 90
p0 108.4 ± 0.08316
160
140
120
100
80
60

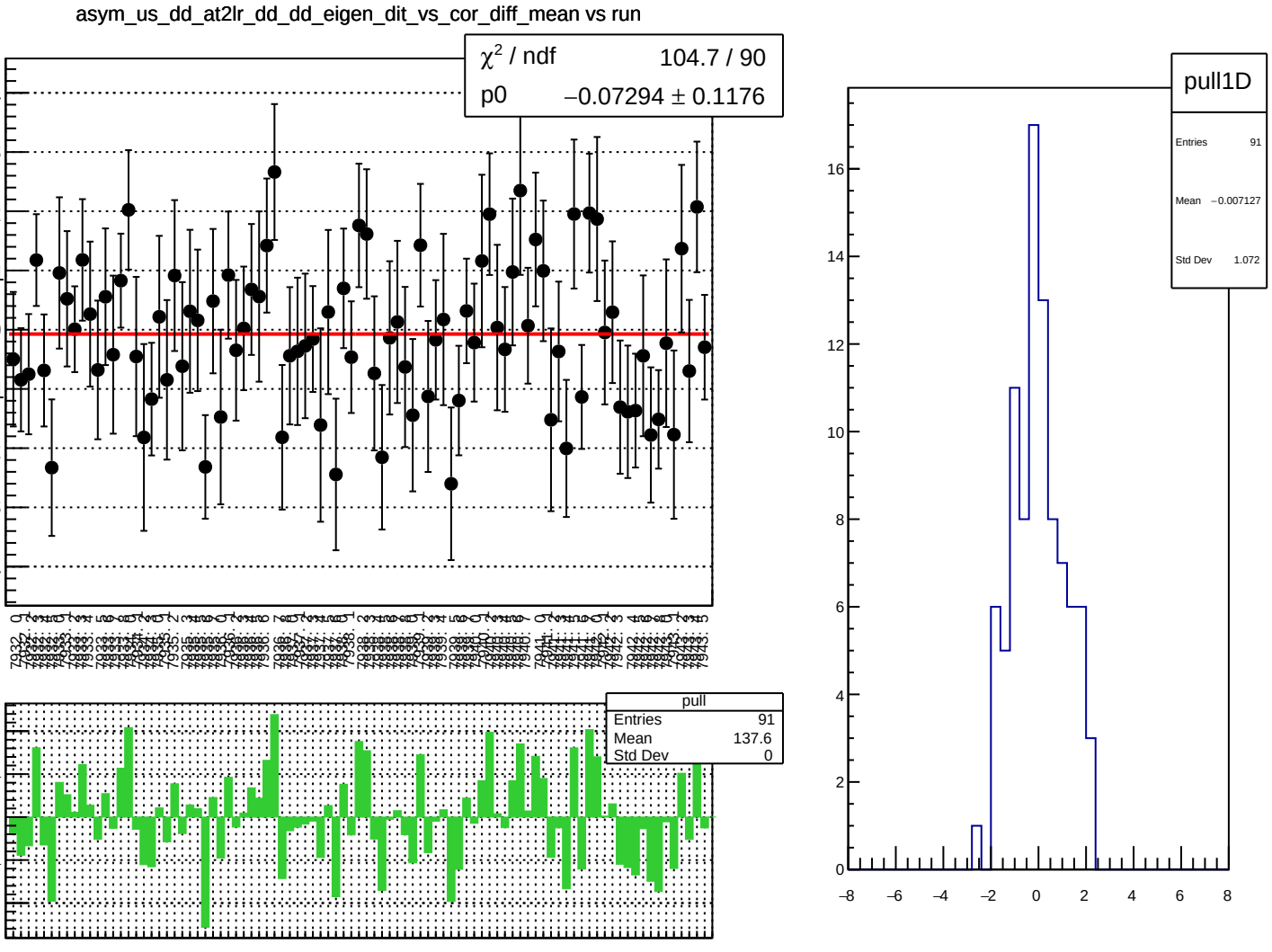

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.07294 ± 0.1176
pull
Entries 91
Mean 137.7
Std Dev 0
pull1D
Entries 91
Mean −0.007125
Std Dev 1.072

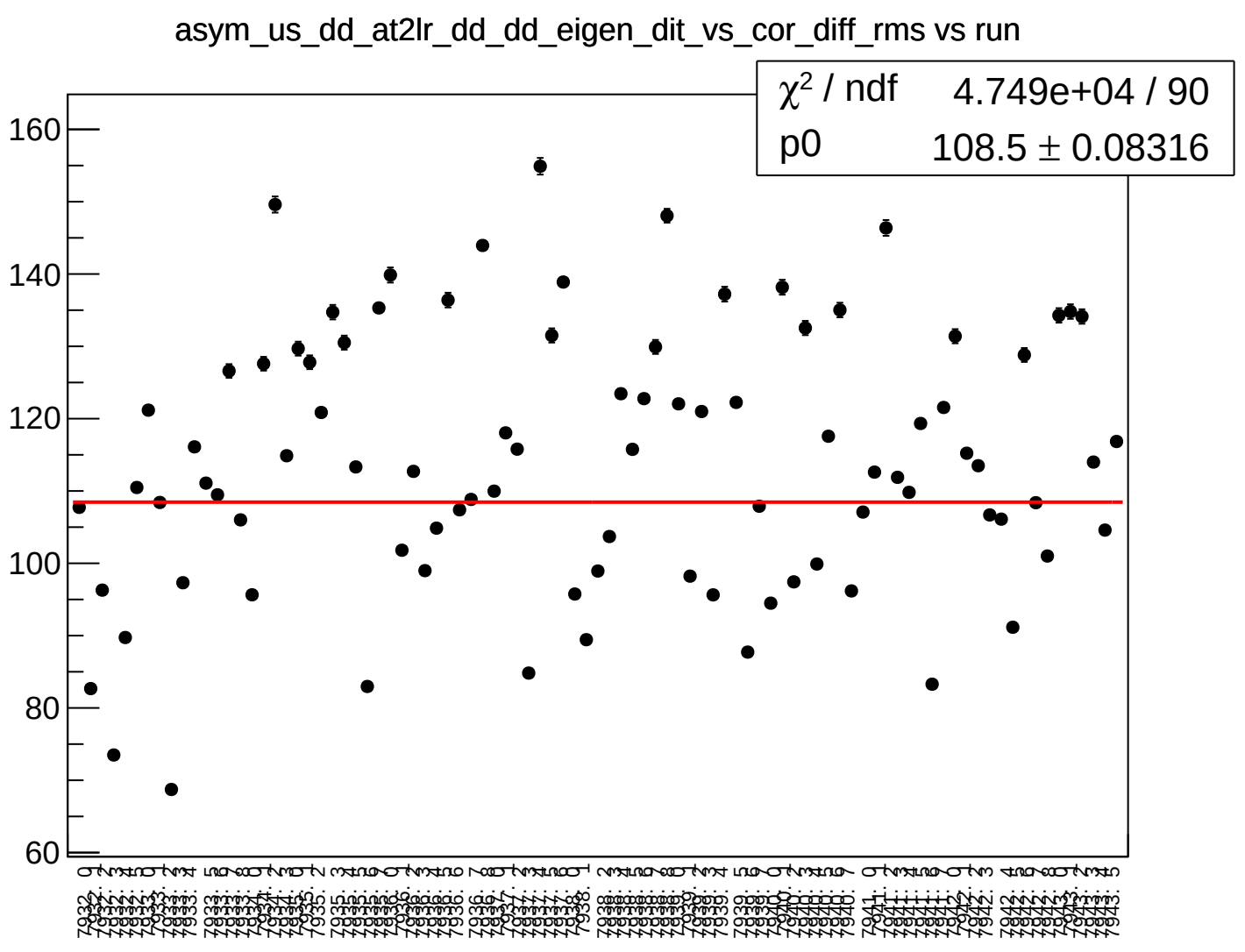

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.748e+04 / 90
p0 108.4 ± 0.08316
160
140
120
100
80
60

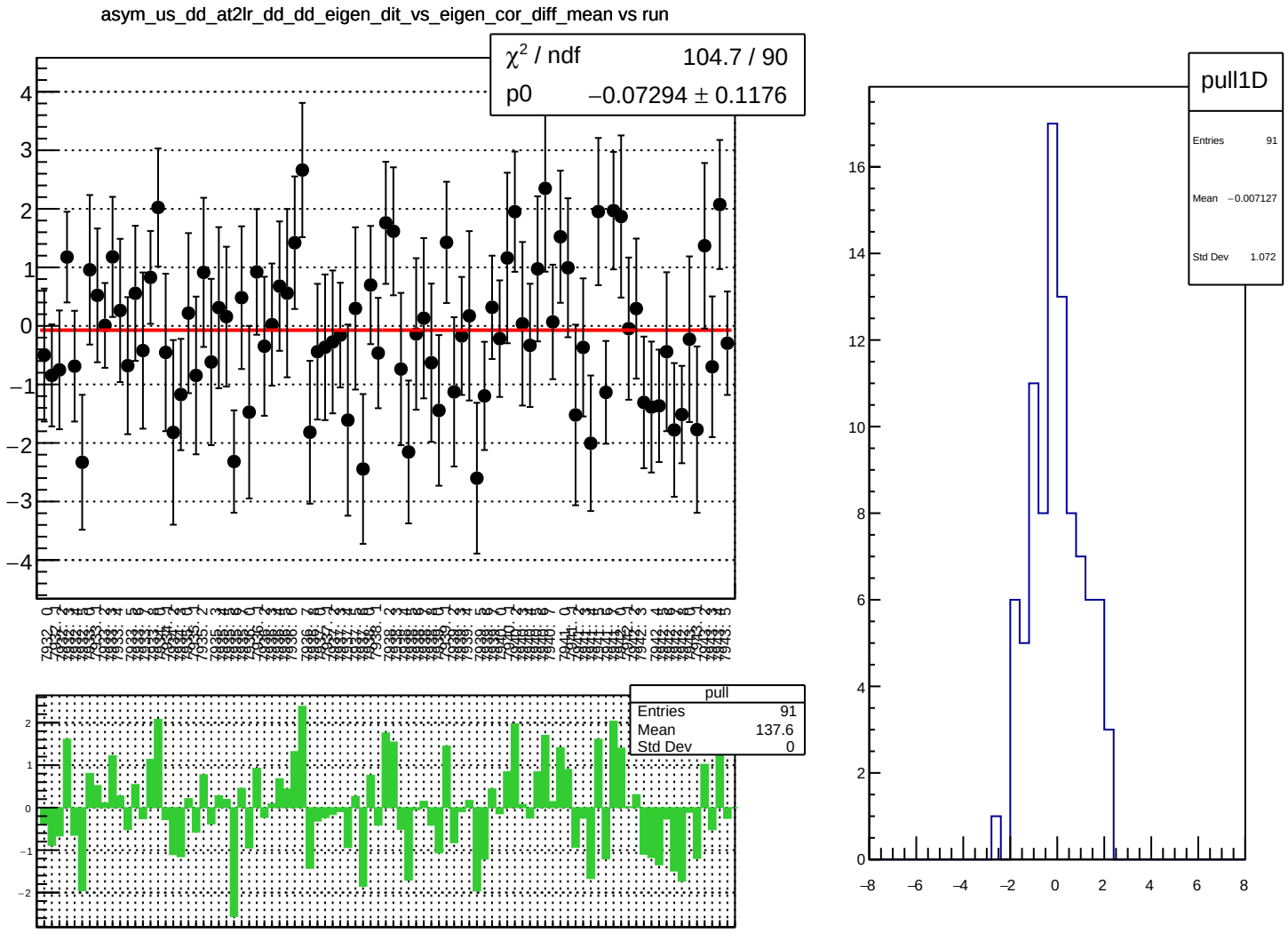

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.3 / 90
p0 −9.892e−06 ± 2.187e−05
pull
Entries 91
Mean −502.1
Std Dev 0

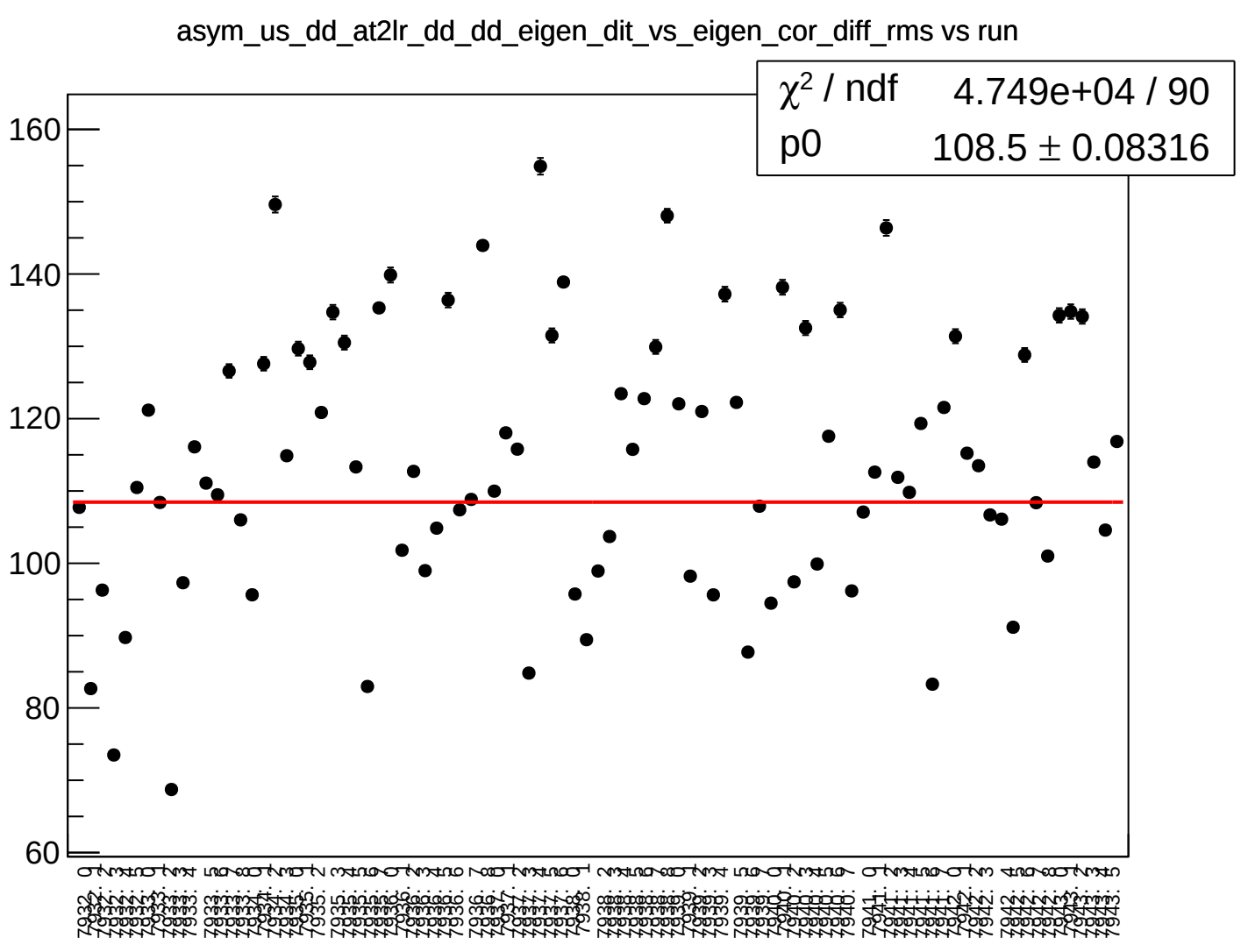

pull1D
Entries 91
Mean −0.002469
Std Dev 1.136

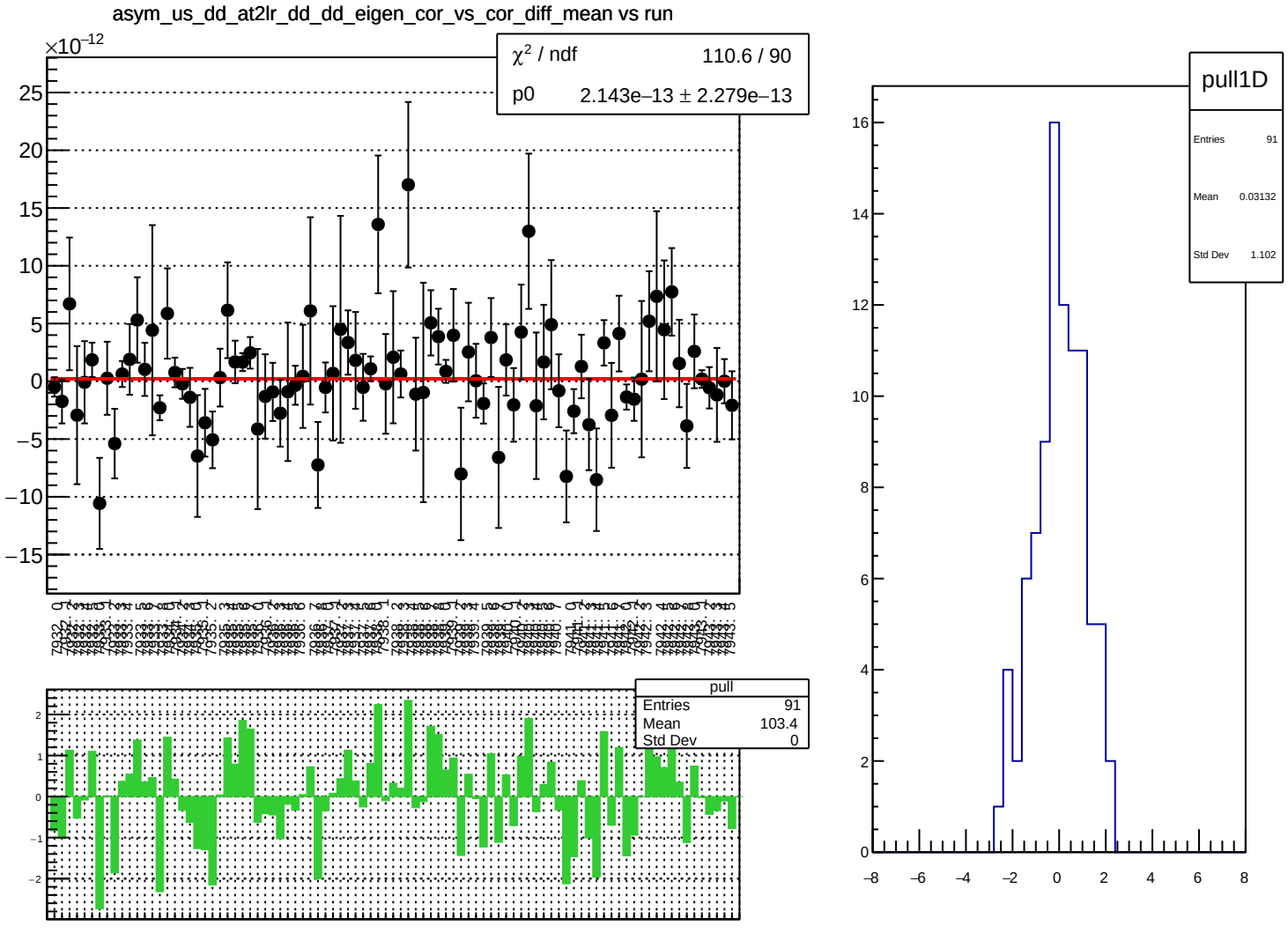

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2846 / 90
p0 0.02043 ± 1.546e−05
0.023
0.022
0.021
0.02
0.019
0.018

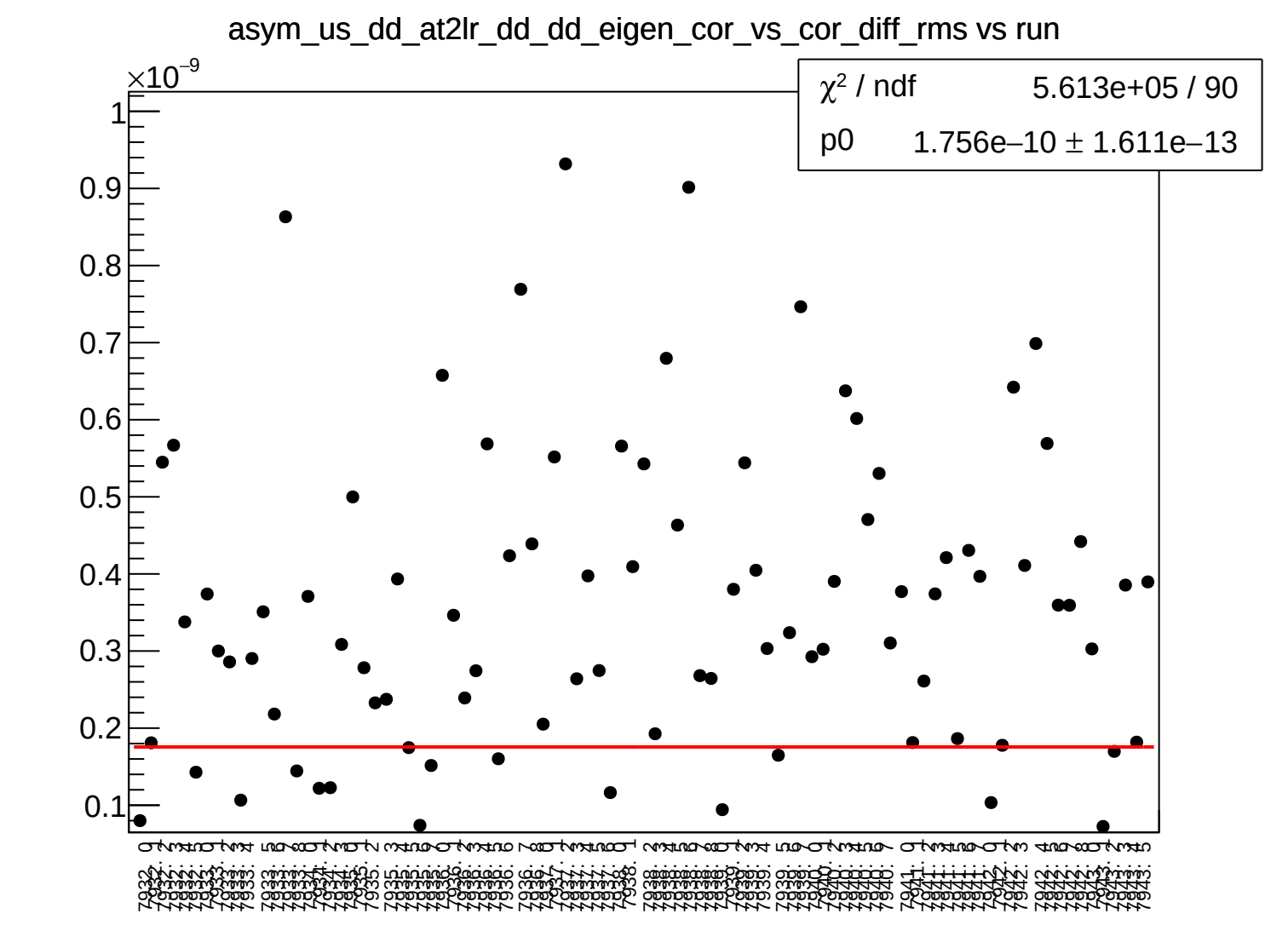

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.07294 ± 0.1176
pull
Entries 91
Mean 137.6
Std Dev 0
pull1D
Entries 91
Mean −0.007127
Std Dev 1.072

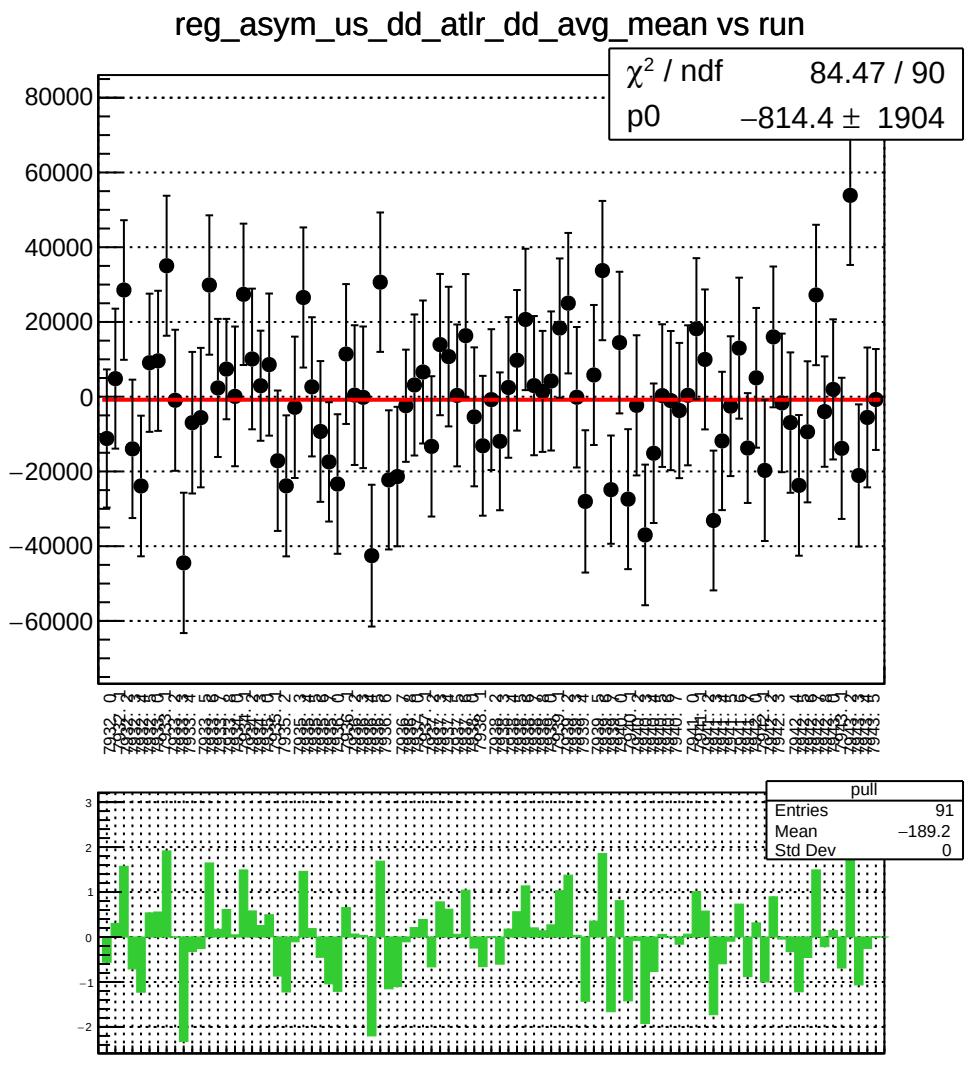

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.749e+04 / 90
p0 108.5 ± 0.08316
160
140
120
100
80
60

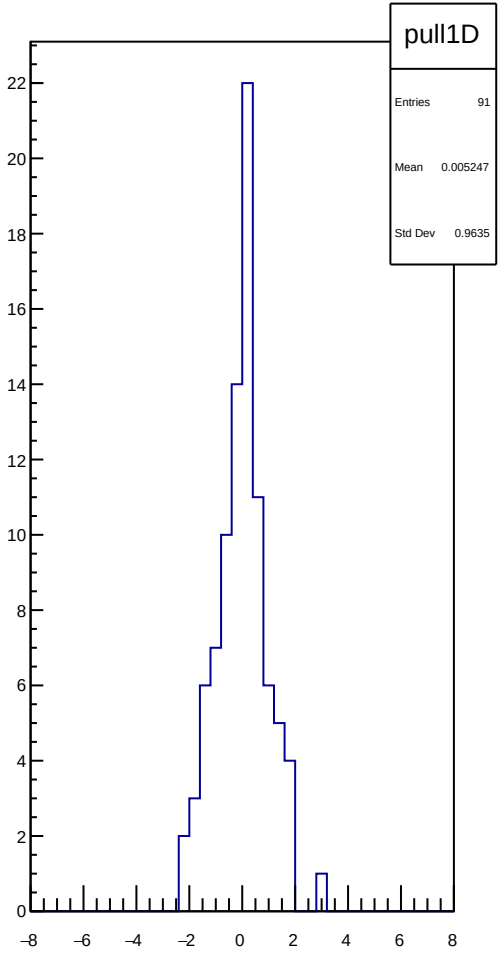

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.07294 ± 0.1176
pull
Entries 91
Mean 137.6
Std Dev 0
pull1D
Entries 91
Mean −0.007127
Std Dev 1.072

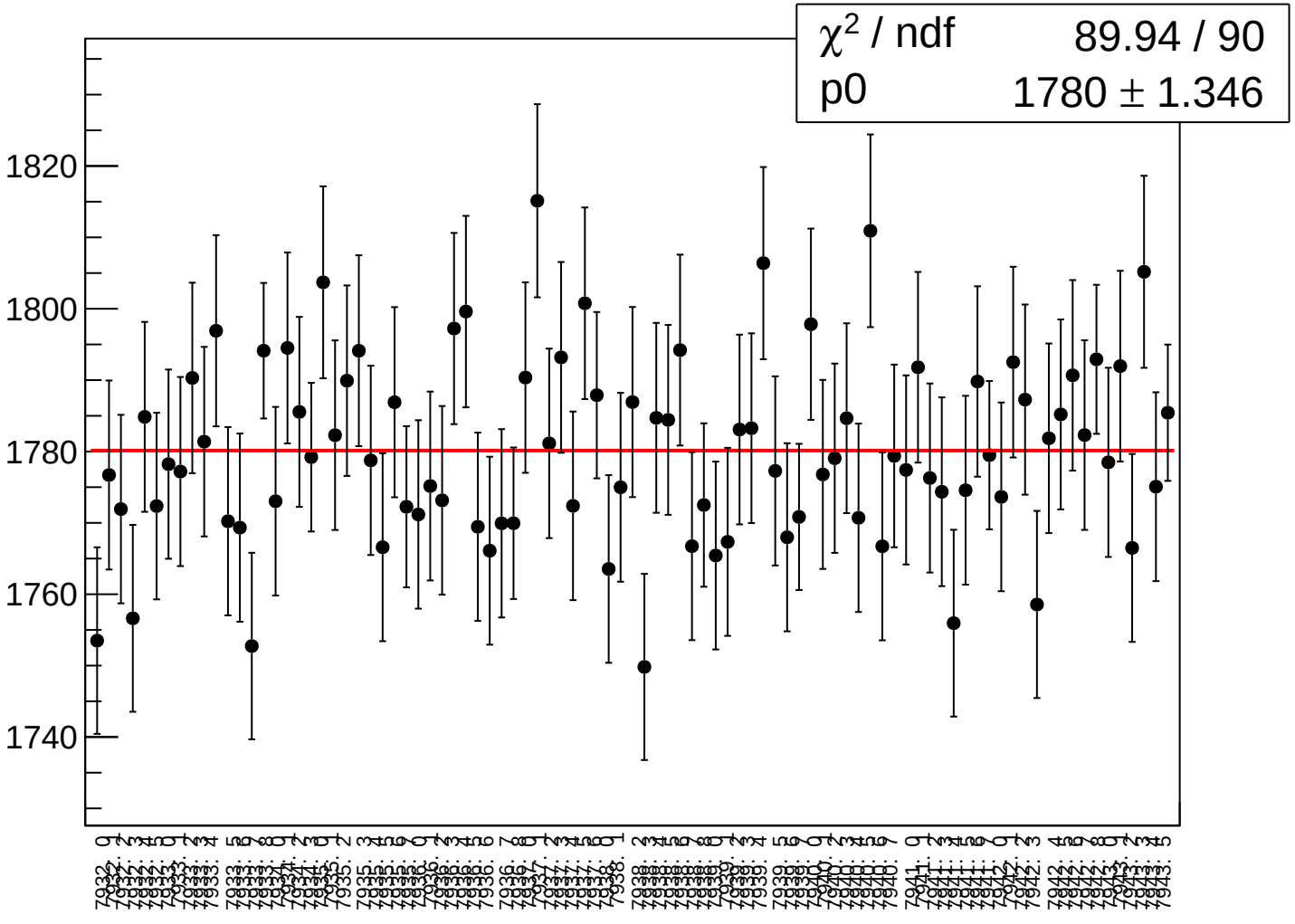

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.749e+04 / 90
p0 108.5 ± 0.08316
160
140
120
100
80
60

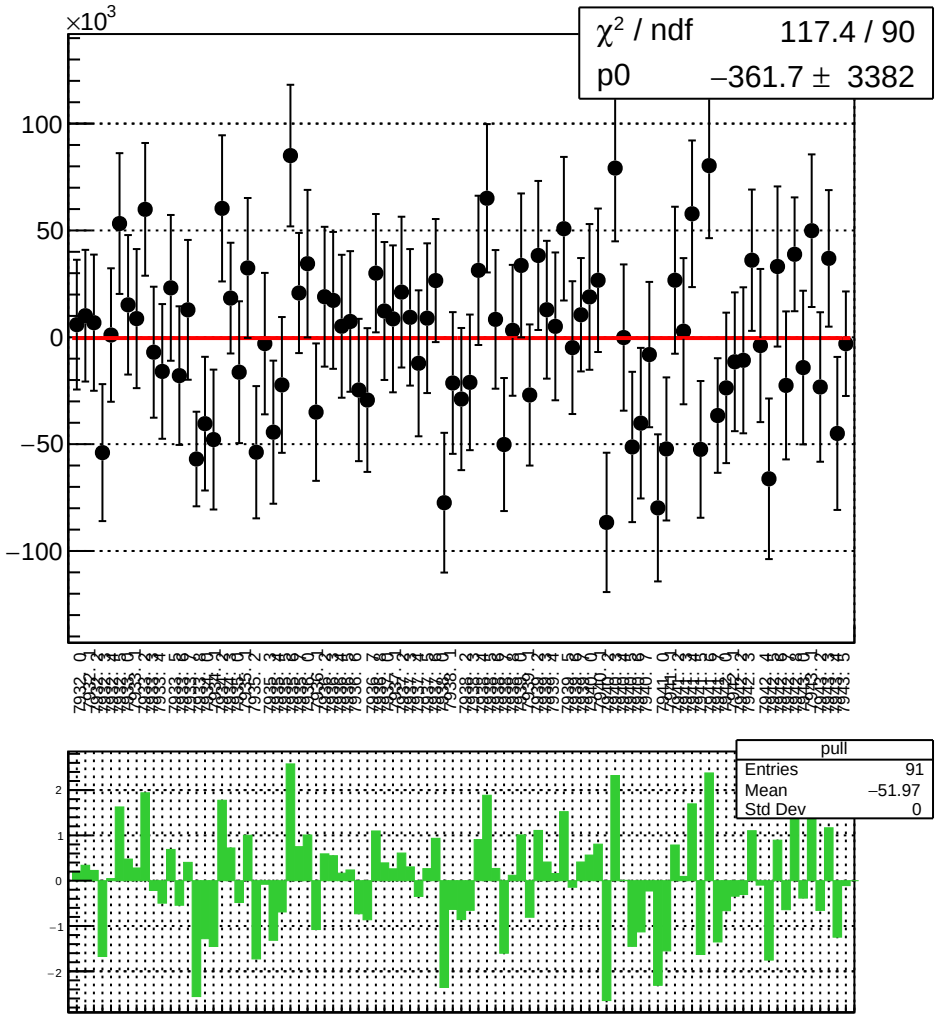

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.6 / 90
p0 2.143e−13 ± 2.279e−13
pull
Entries 91
Mean 103.4
Std Dev 0
pull1D
Entries 91
Mean 0.03132
Std Dev 1.102

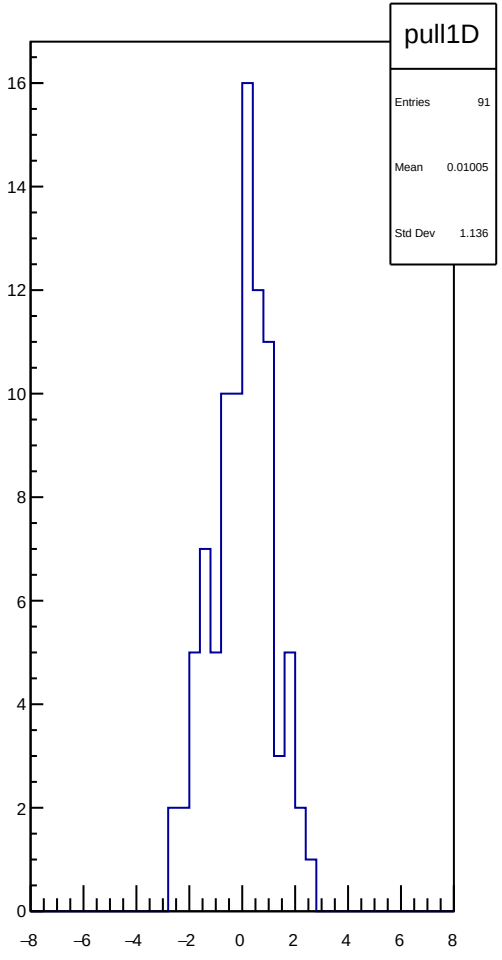

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.613e+05 / 90
p0 1.756e−10 ± 1.611e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

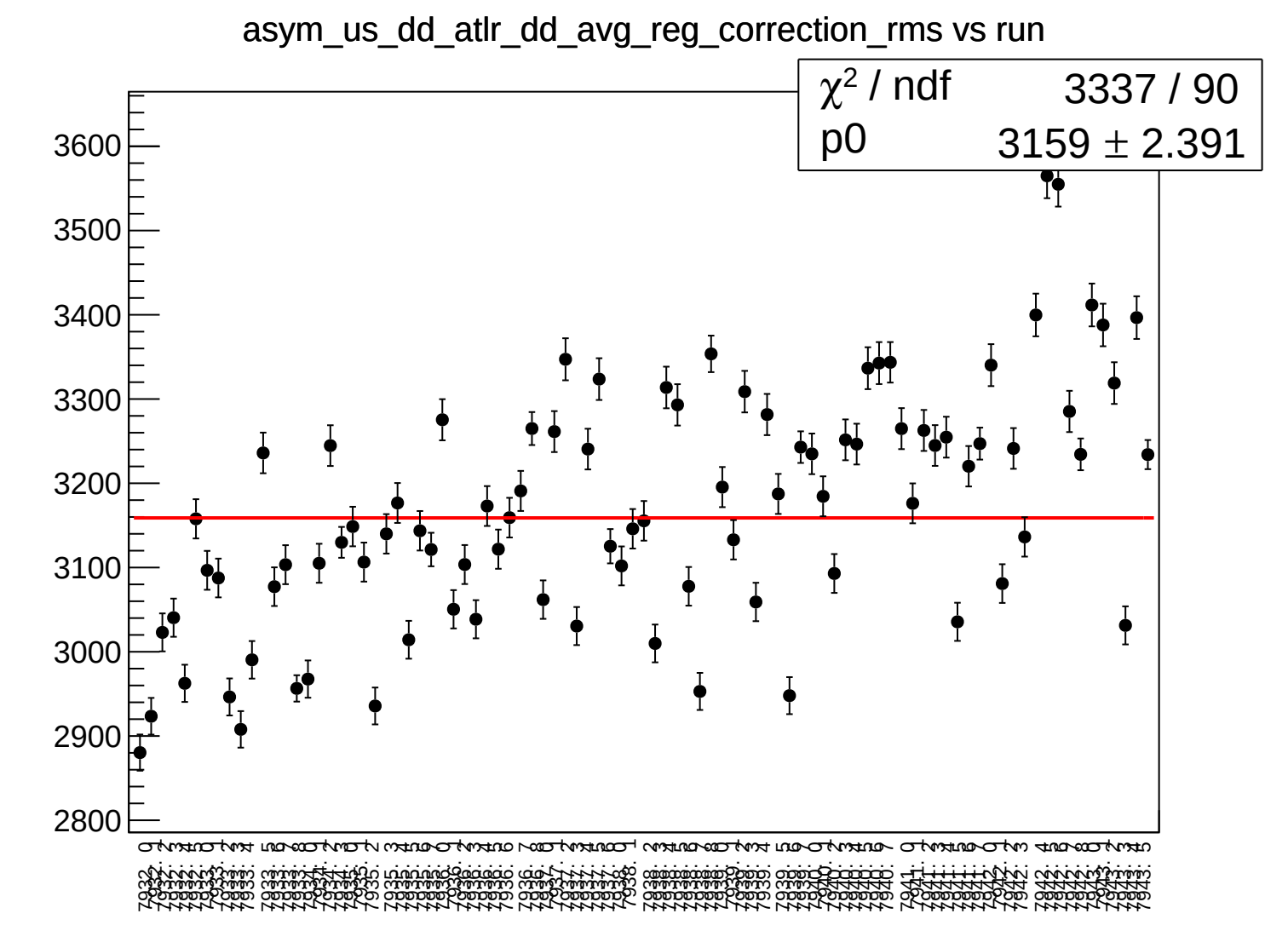

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.47 / 90
p0 −814.4 ± 1904
pull
Entries 91
Mean −189.2
Std Dev 0

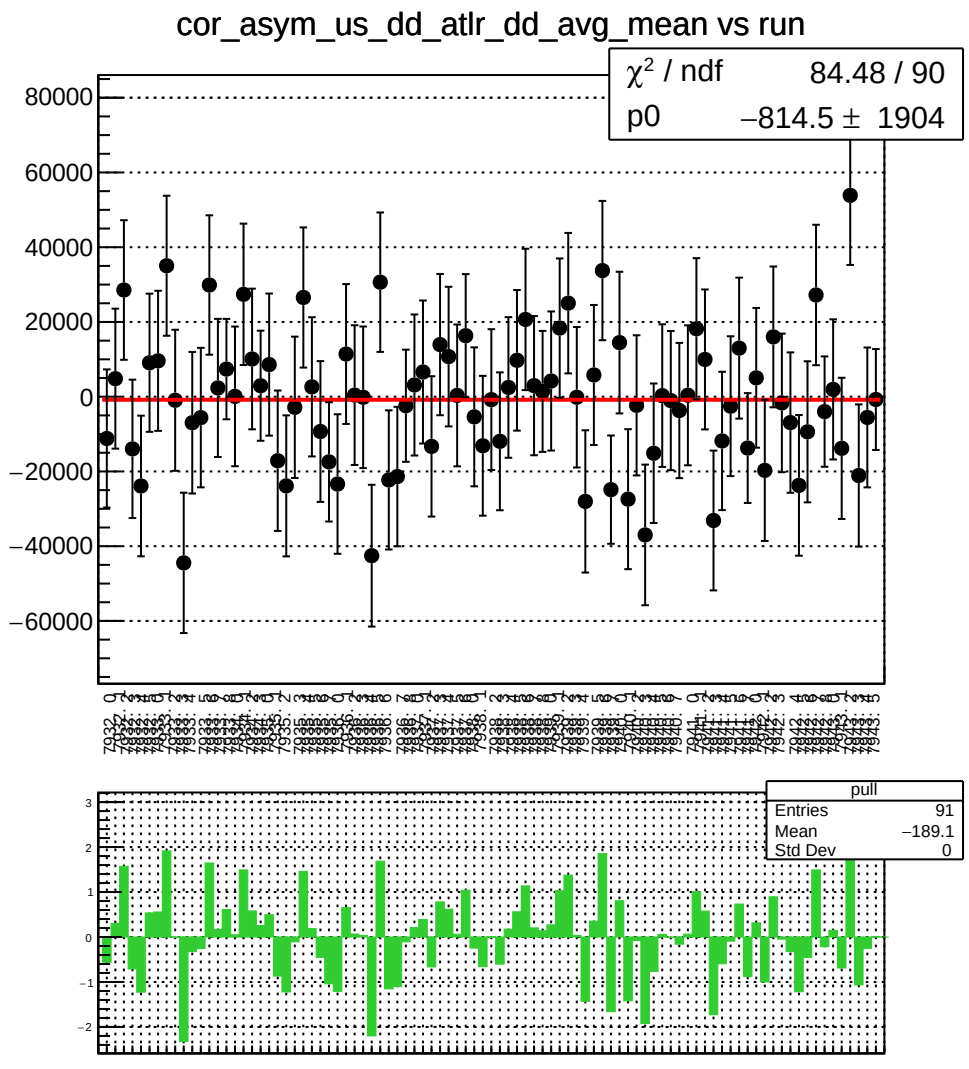

pull1D
Entries 91
Mean 0.005247
Std Dev 0.9635

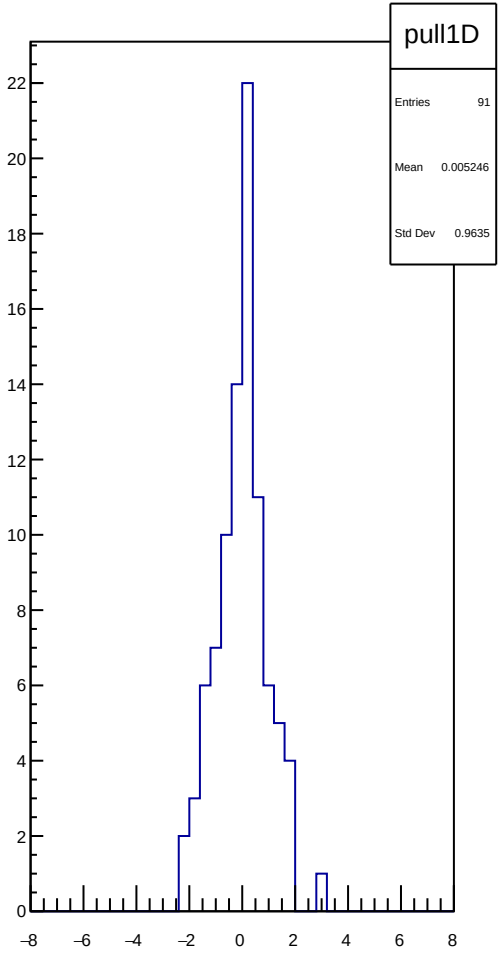

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 89.94 / 90
p0 1780 ± 1.346
1820
1800
1780
1760
1740

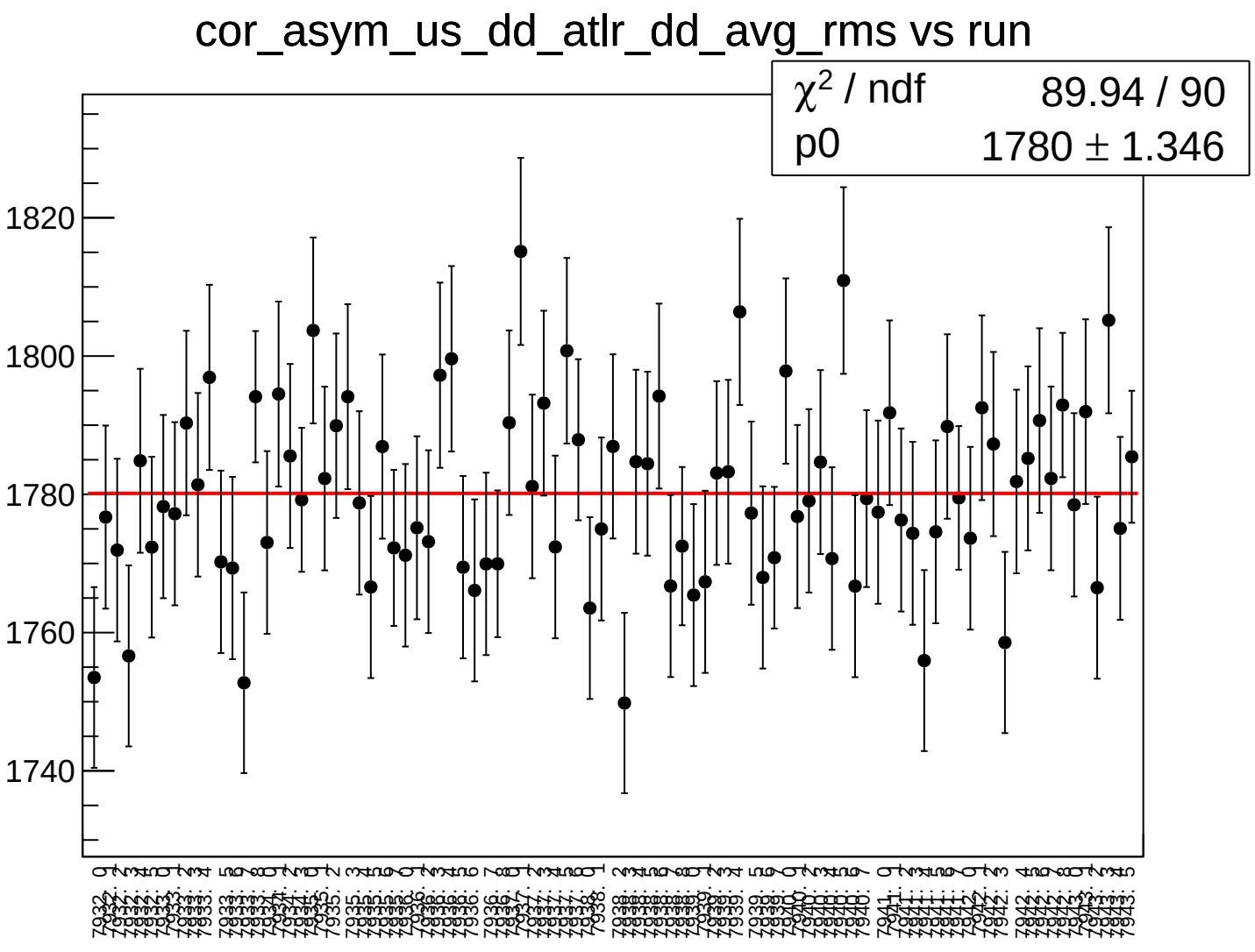

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 117.4 / 90
p0 −361.7 ± 3382
100
50
0
−50
−100
pull
Entries 91
Mean −51.97
Std Dev 0
2
1
0
−1
−2

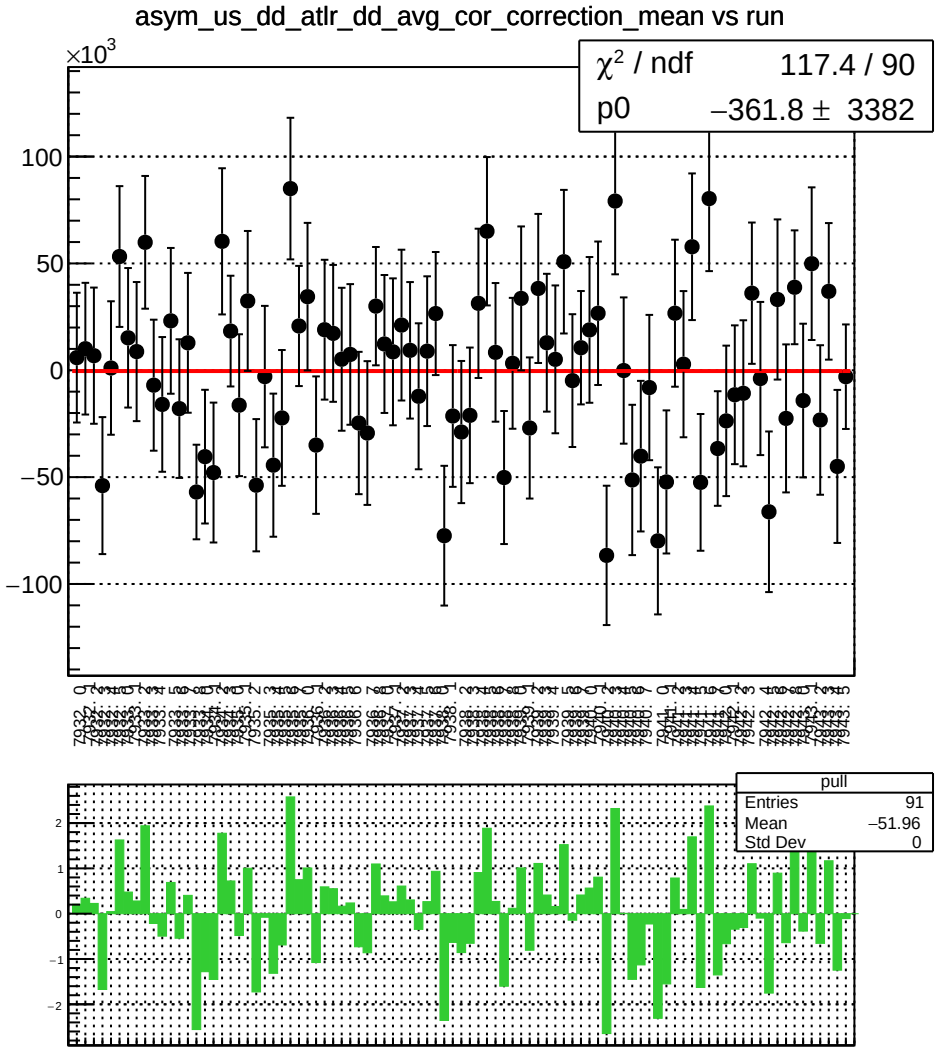

pull1D
Entries 91
Mean 0.01005
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

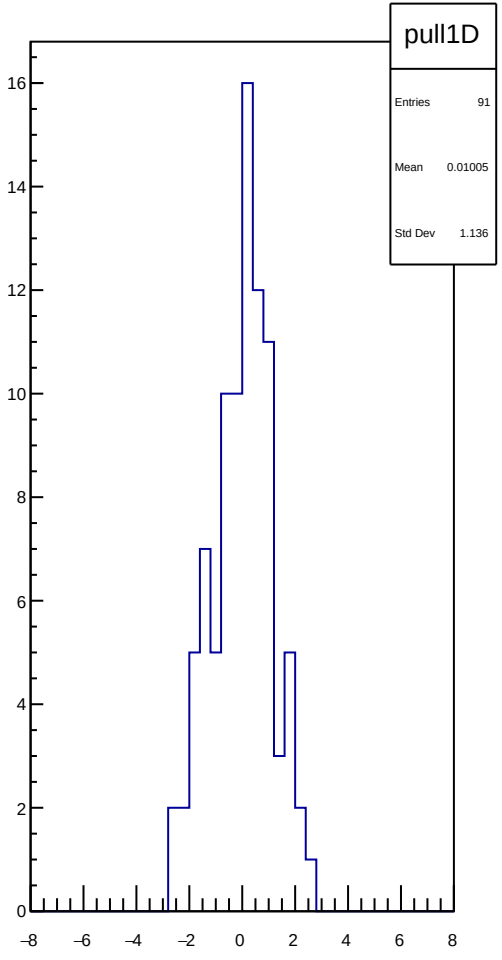

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3337 / 90
p0 3159 ± 2.391
3600
3500
3400
3300
3200
3100
3000
2900
2800

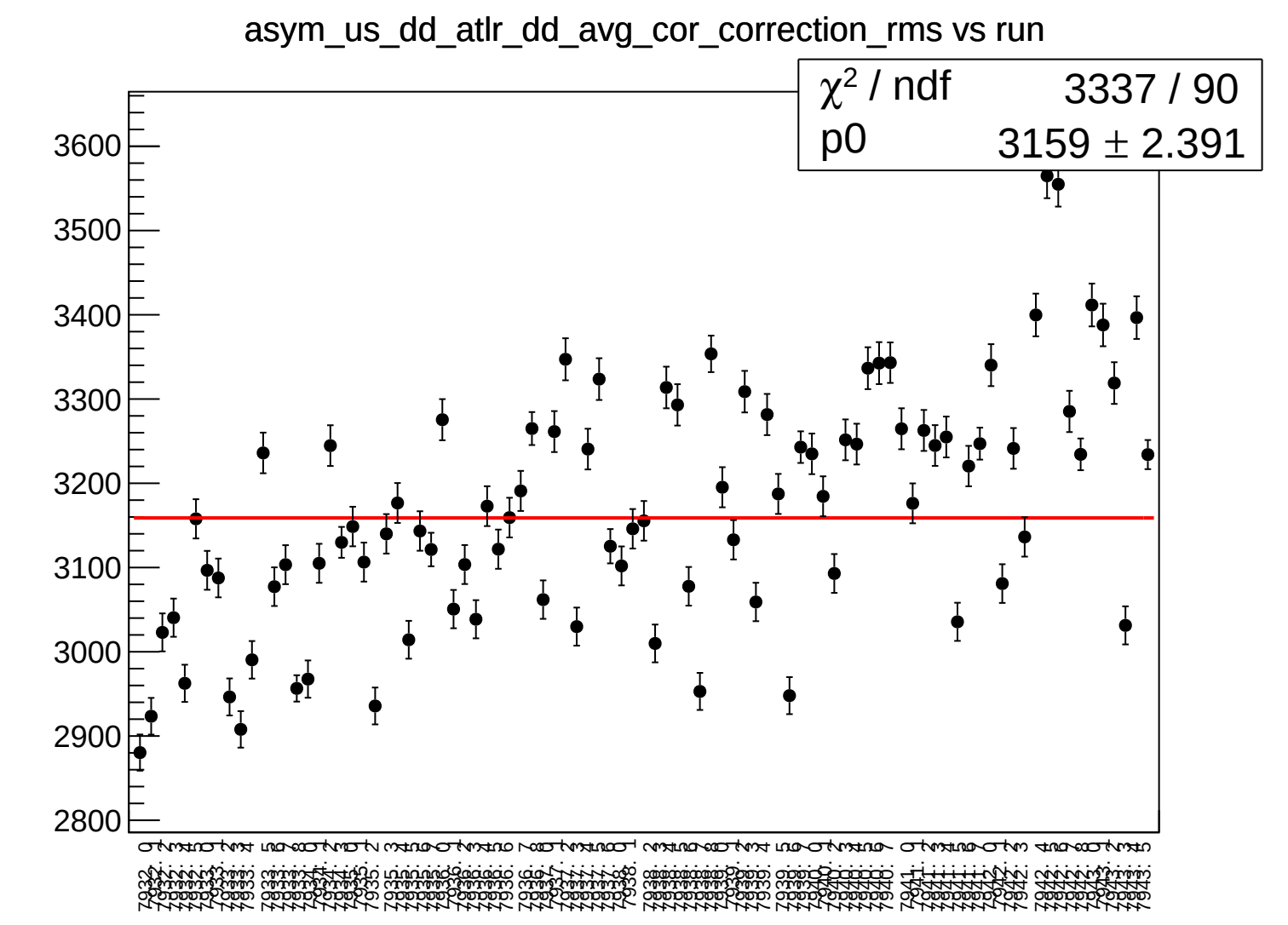

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.48 / 90
p0 −814.5 ± 1904
pull
Entries 91
Mean −189.1
Std Dev 0

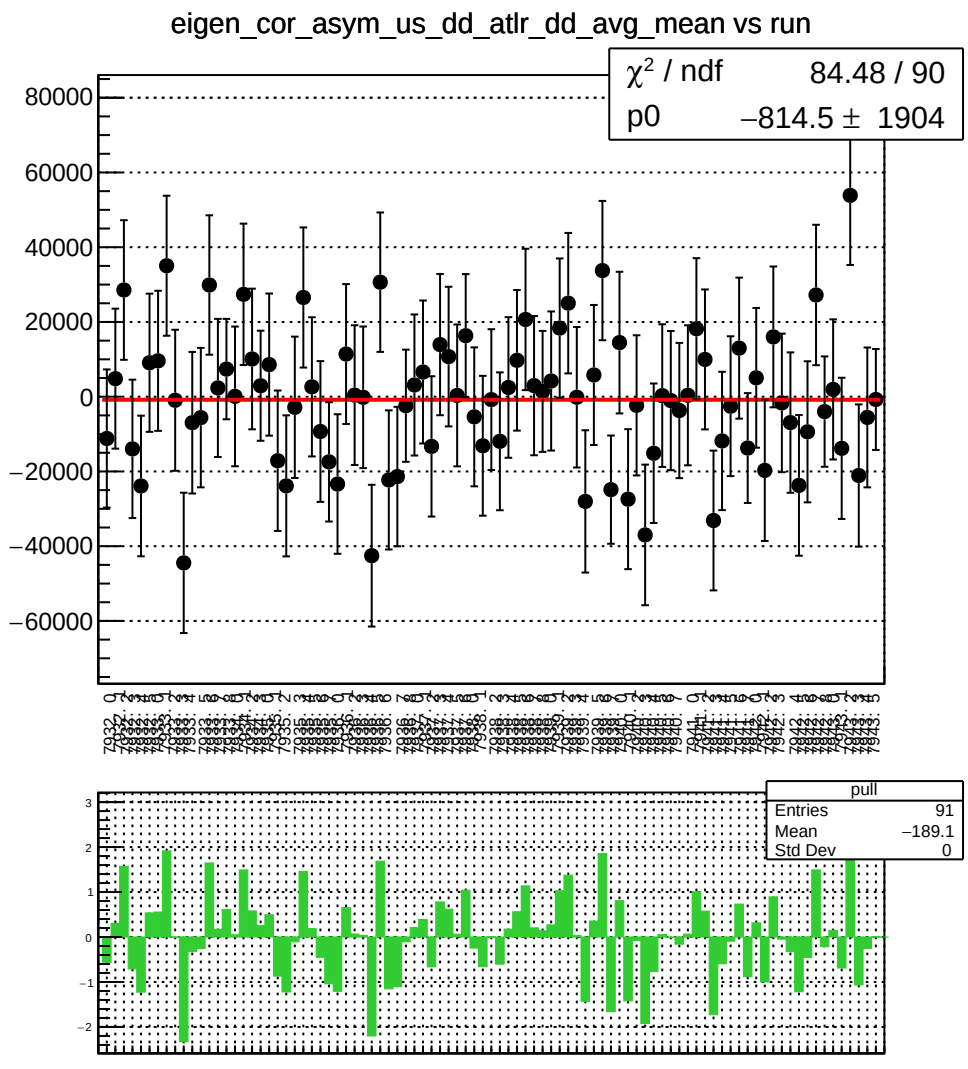

pull1D
Entries 91
Mean 0.005246
Std Dev 0.9635

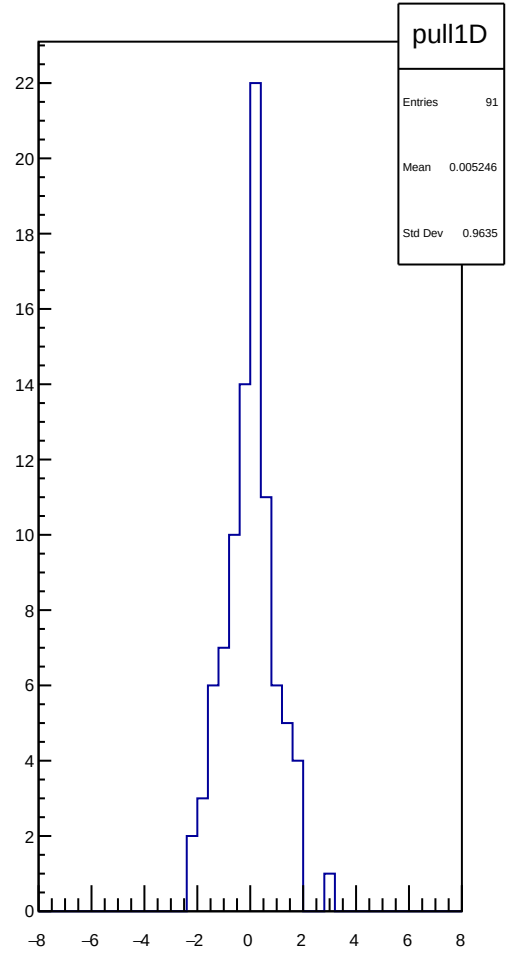

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 89.94 / 90
p0 1780 ± 1.346
1820
1800
1780
1760
1740

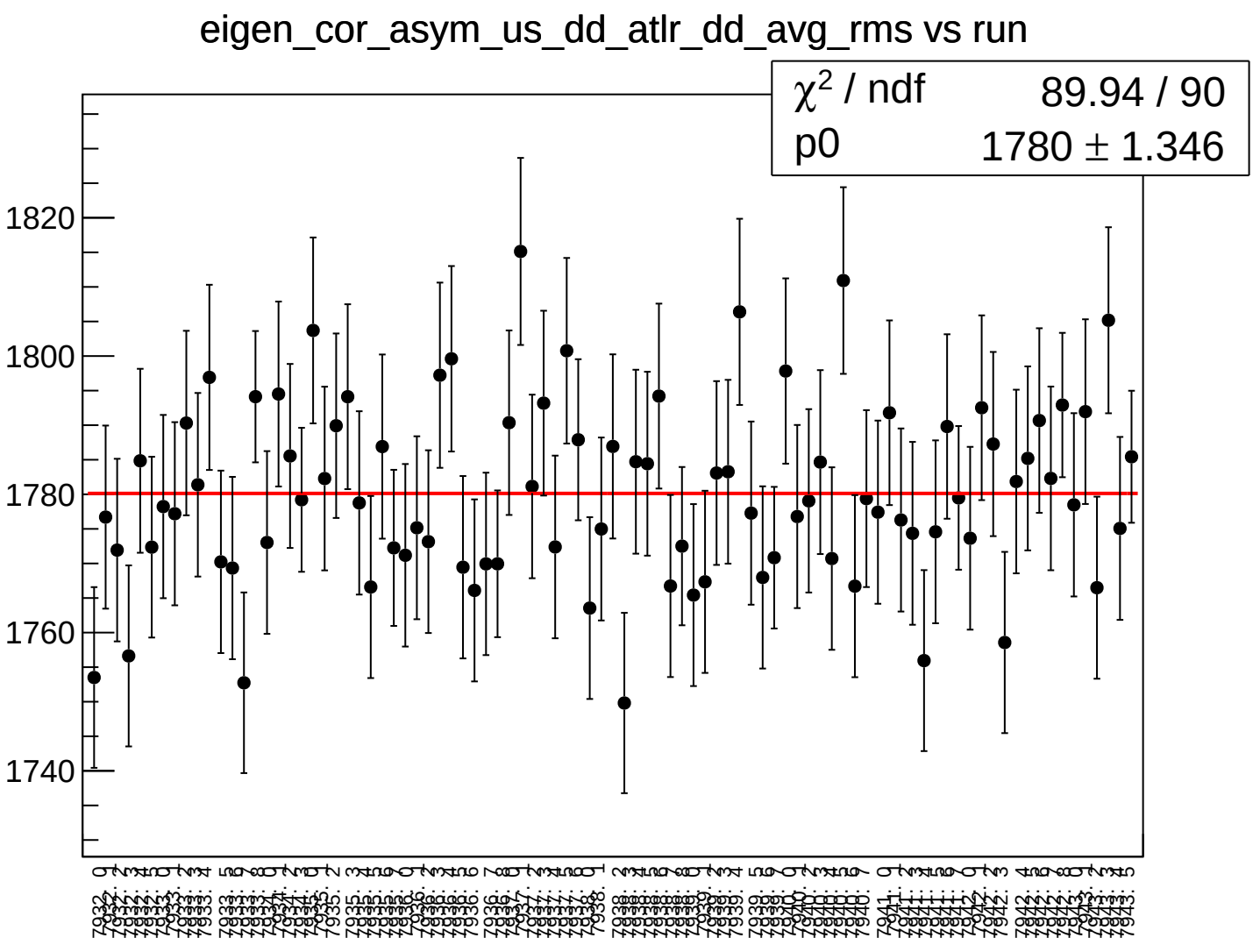

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 117.4 / 90
p0 −361.8 ± 3382
100
50
0
−50
−100
pull
Entries 91
Mean −51.96
Std Dev 0
2
1
0
−1
−2

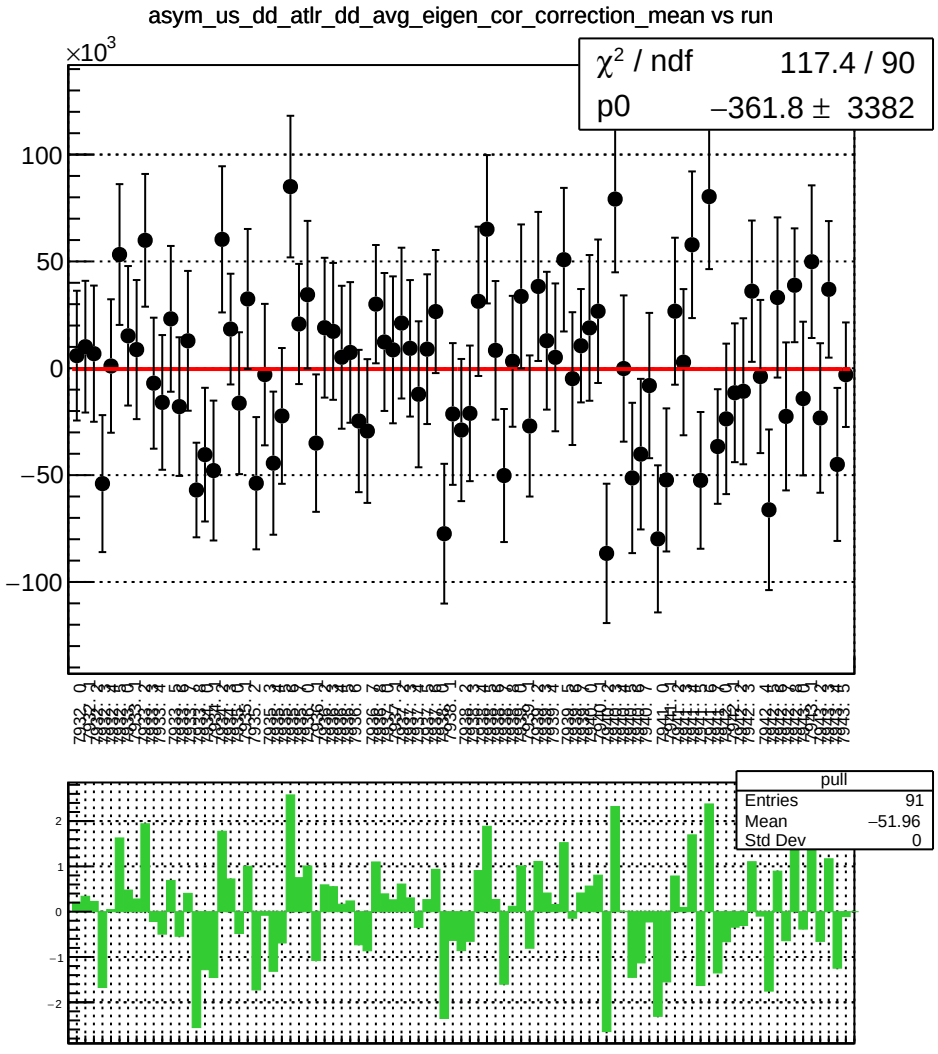

pull1D
Entries 91
Mean 0.01005
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

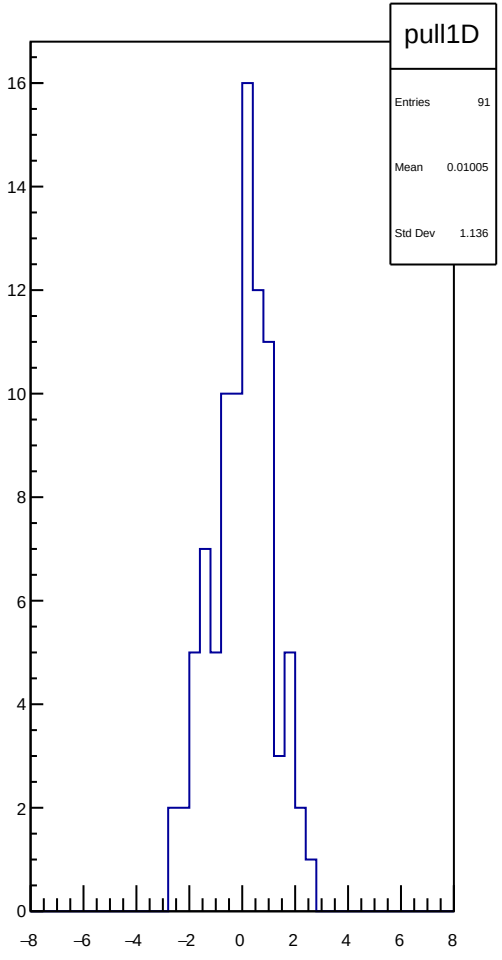

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3337 / 90
p0 3159 ± 2.391
3600
3500
3400
3300
3200
3100
3000
2900
2800

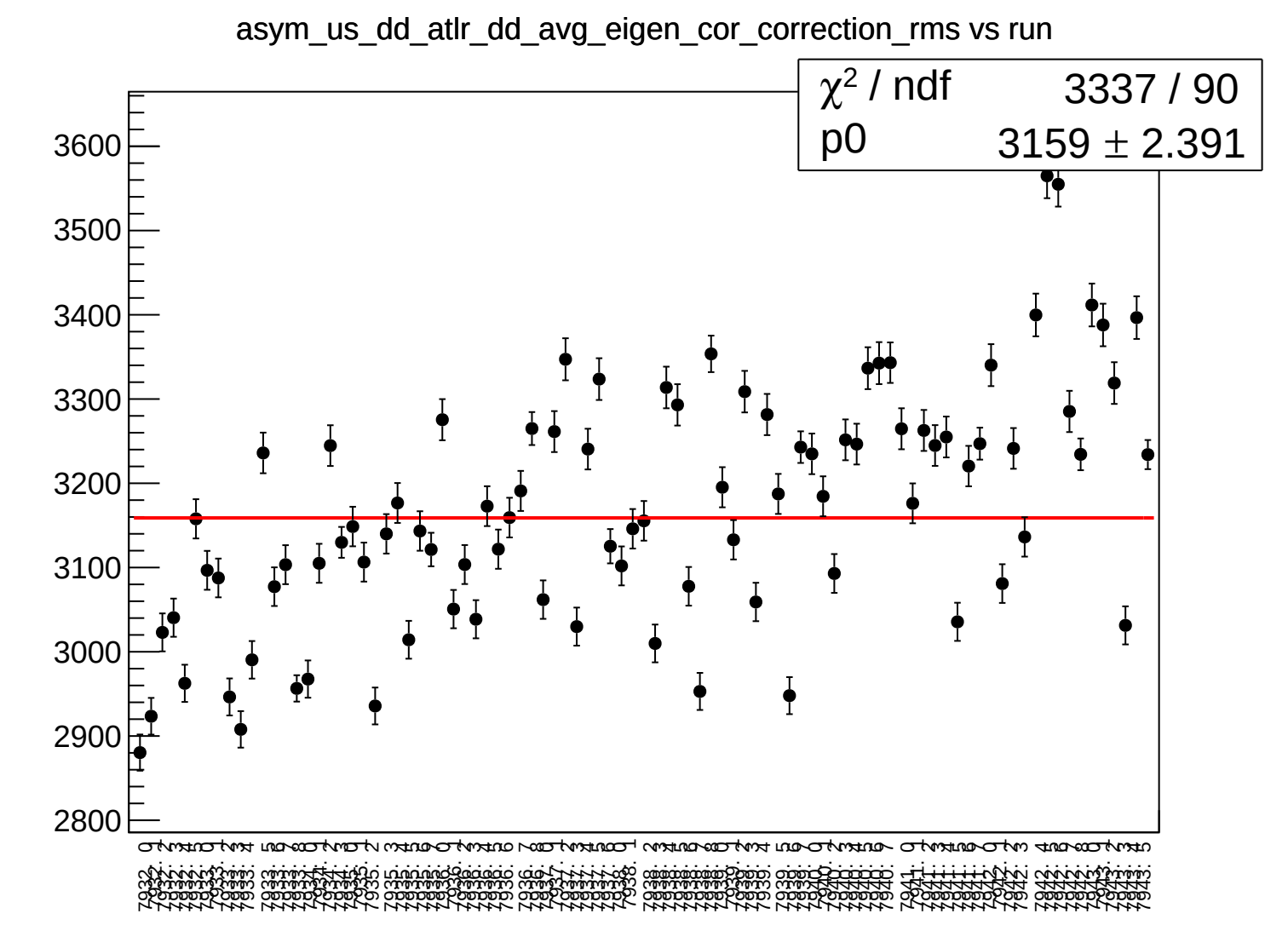

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.48 / 90
p0 −814.5 ± 1904
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −189.1
Std Dev 0
3
2
1
0
−1
−2

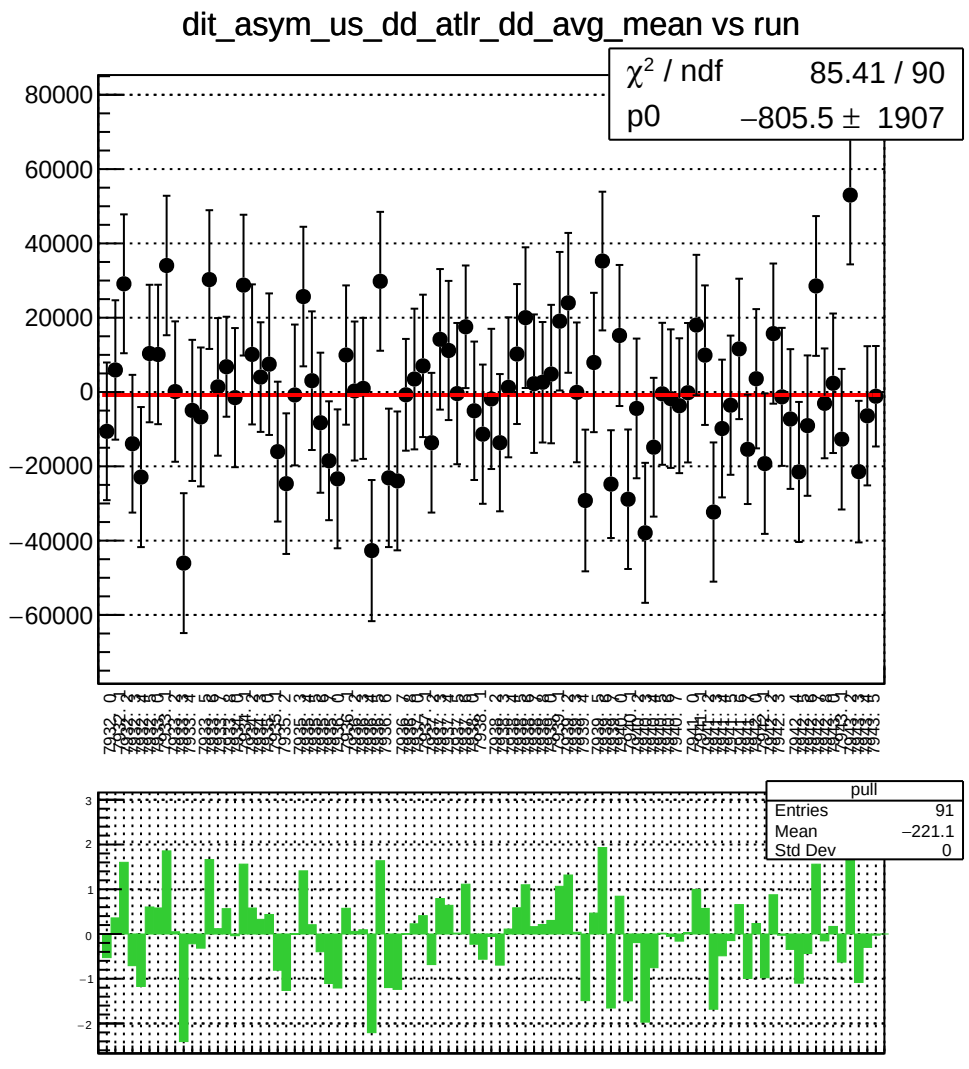

pull1D
Entries 91
Mean 0.005246
Std Dev 0.9635
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

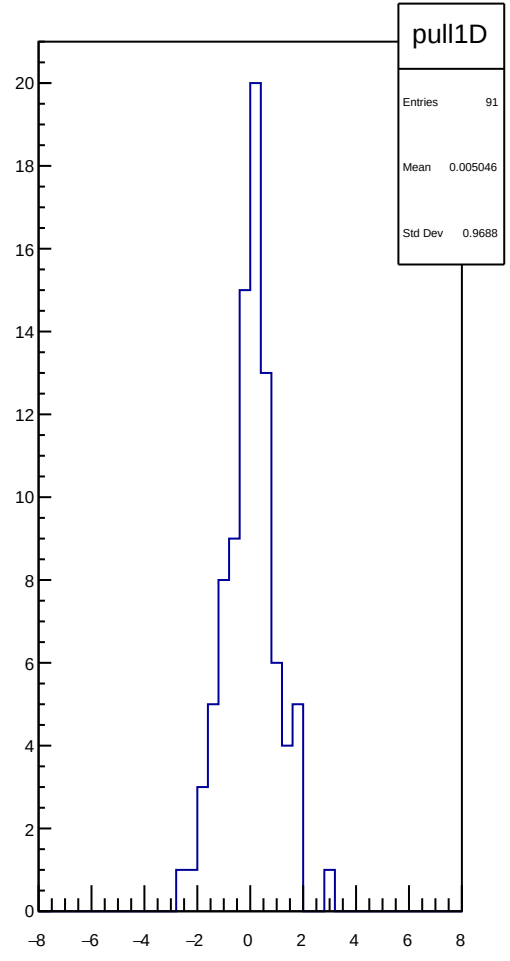

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 89.94 / 90
p0 1780 ± 1.346
1820
1800
1780
1760
1740

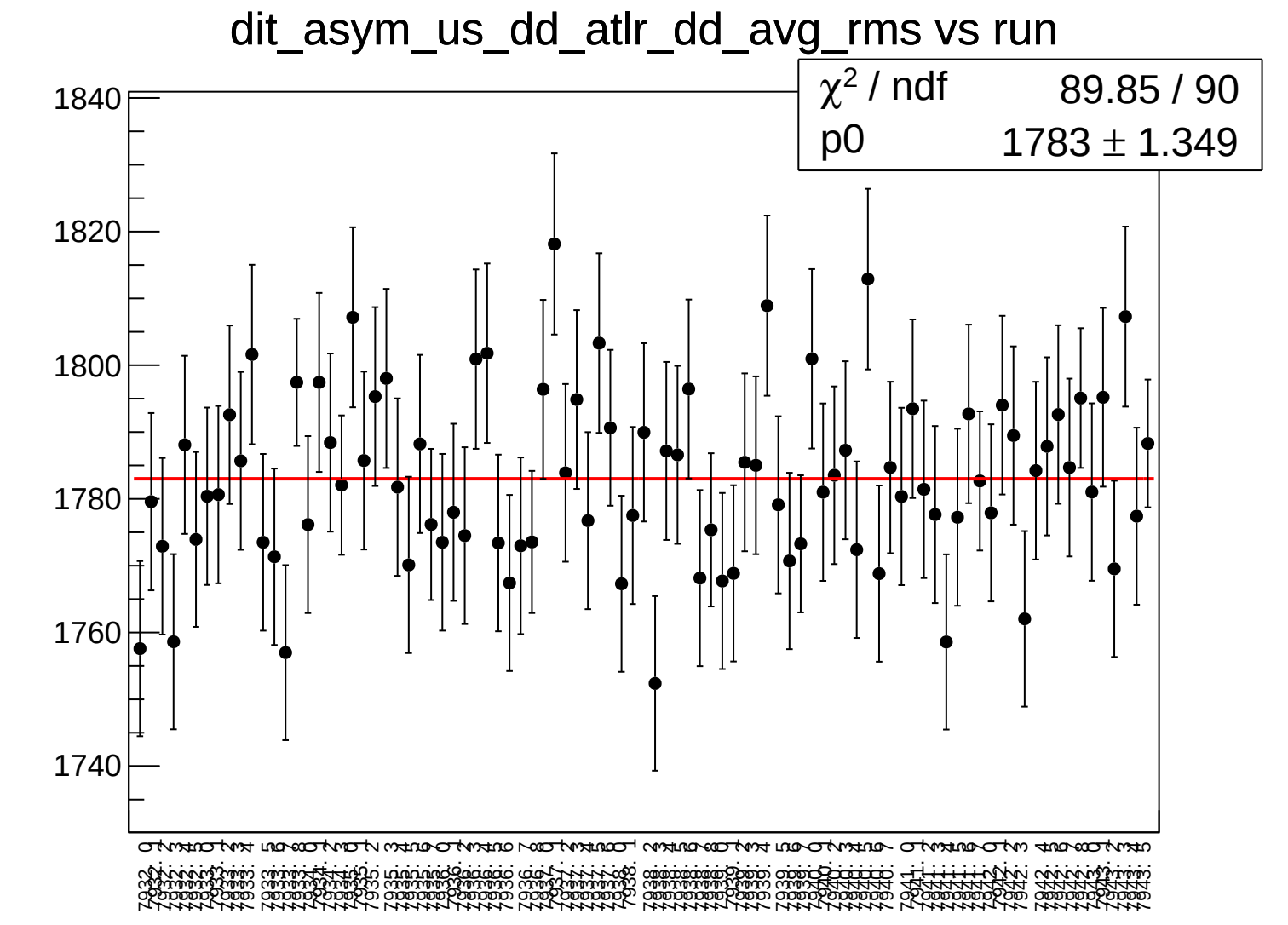

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 117.4 / 90
p0 −361.8 ± 3382
100
50
0
−50
−100
pull
Entries 91
Mean −51.96
Std Dev 0
2
1
0
−1
−2

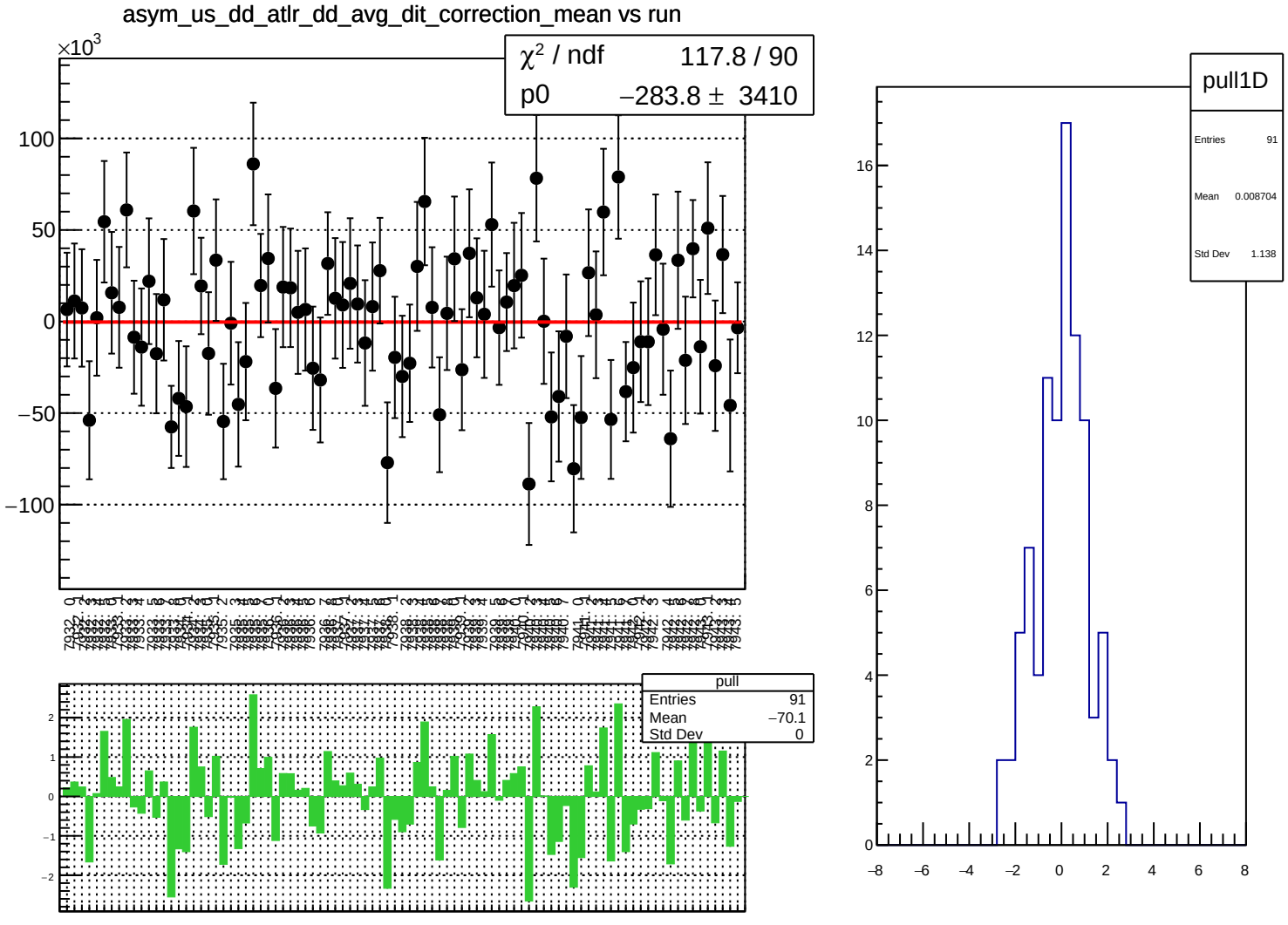

pull1D
Entries 91
Mean 0.01005
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

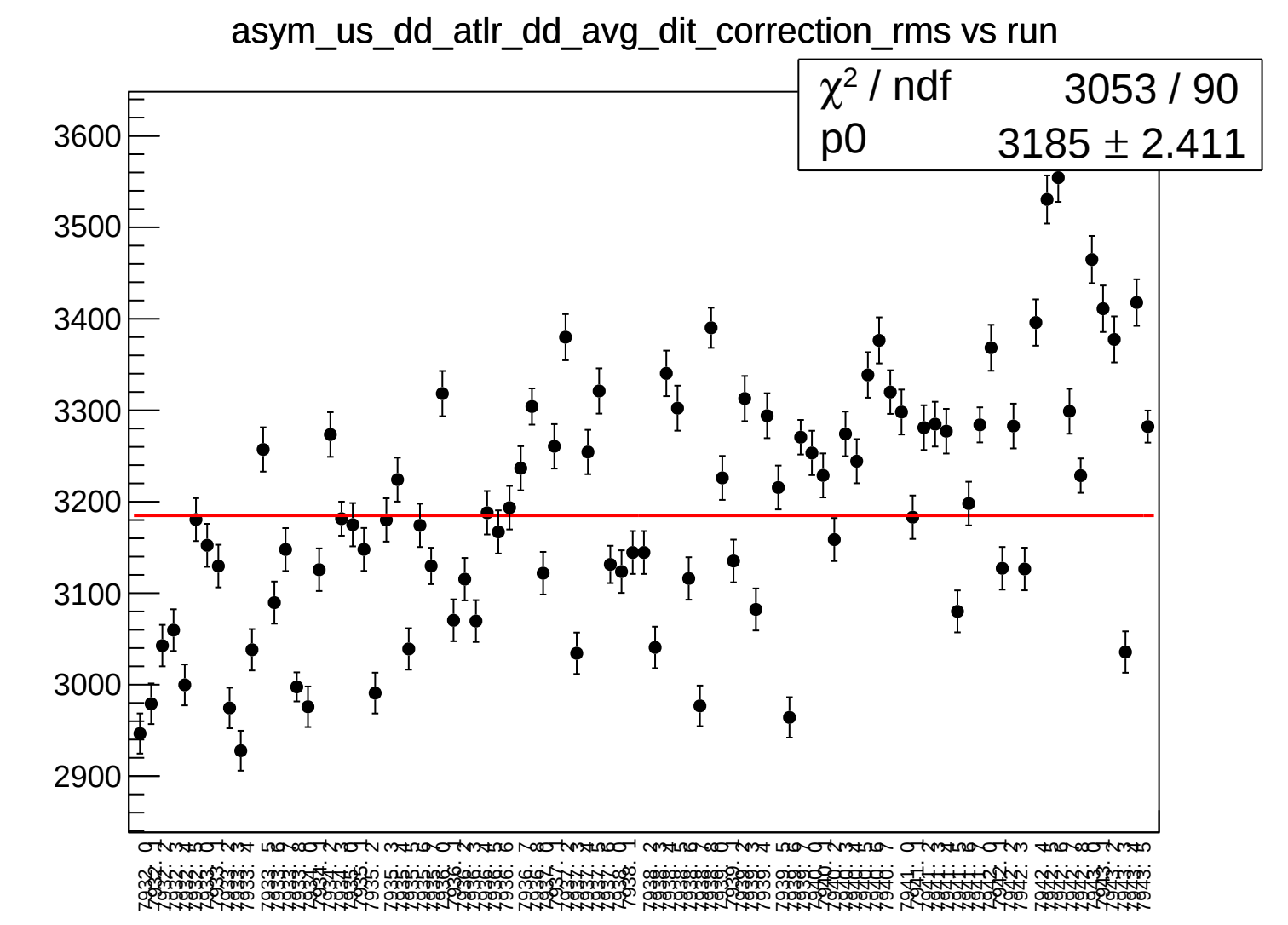

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3337 / 90
p0 3159 ± 2.391
3600
3500
3400
3300
3200
3100
3000
2900
2800

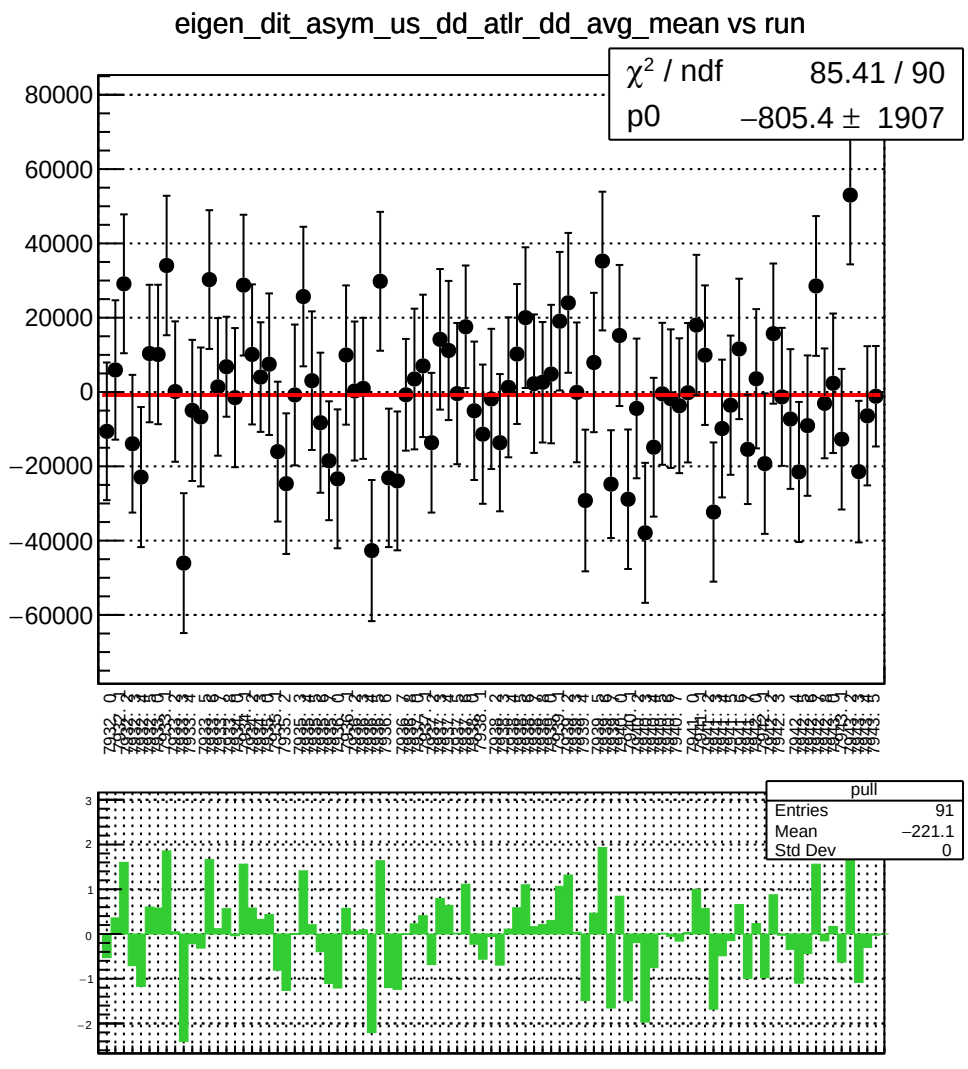

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.41 / 90
p0 −805.5 ± 1907
pull
Entries 91
Mean −221.1
Std Dev 0

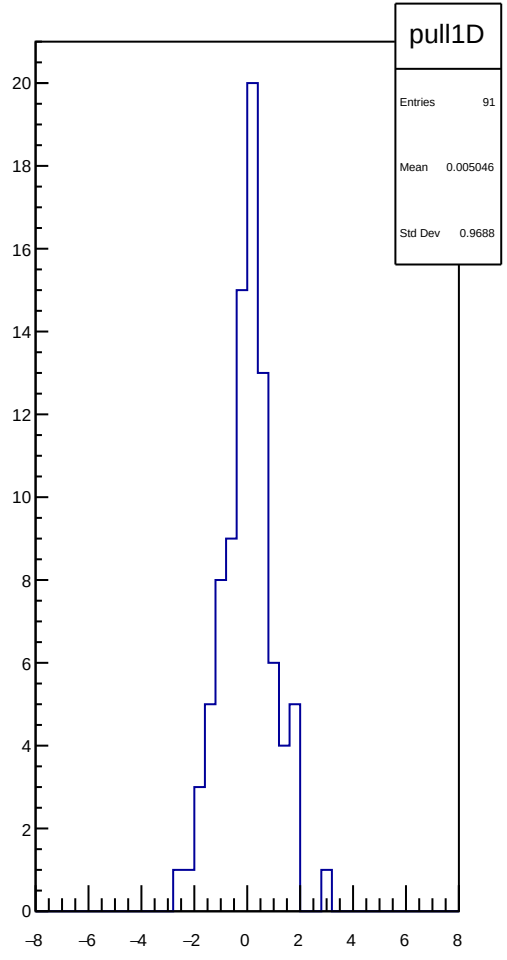

pull1D
Entries 91
Mean 0.005046
Std Dev 0.9688

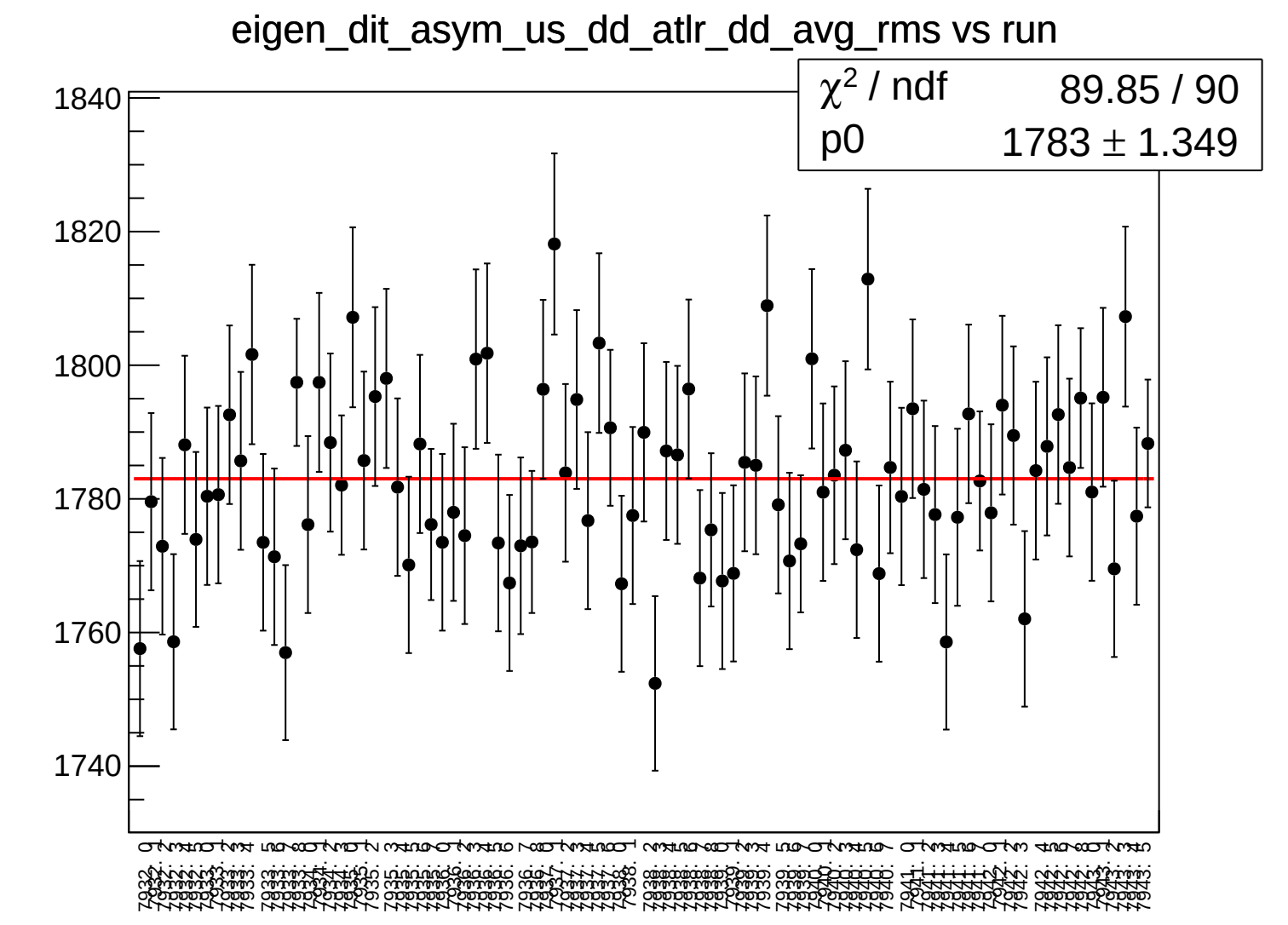

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 89.85 / 90
p0 1783 ± 1.349
1840
1820
1800
1780
1760
1740

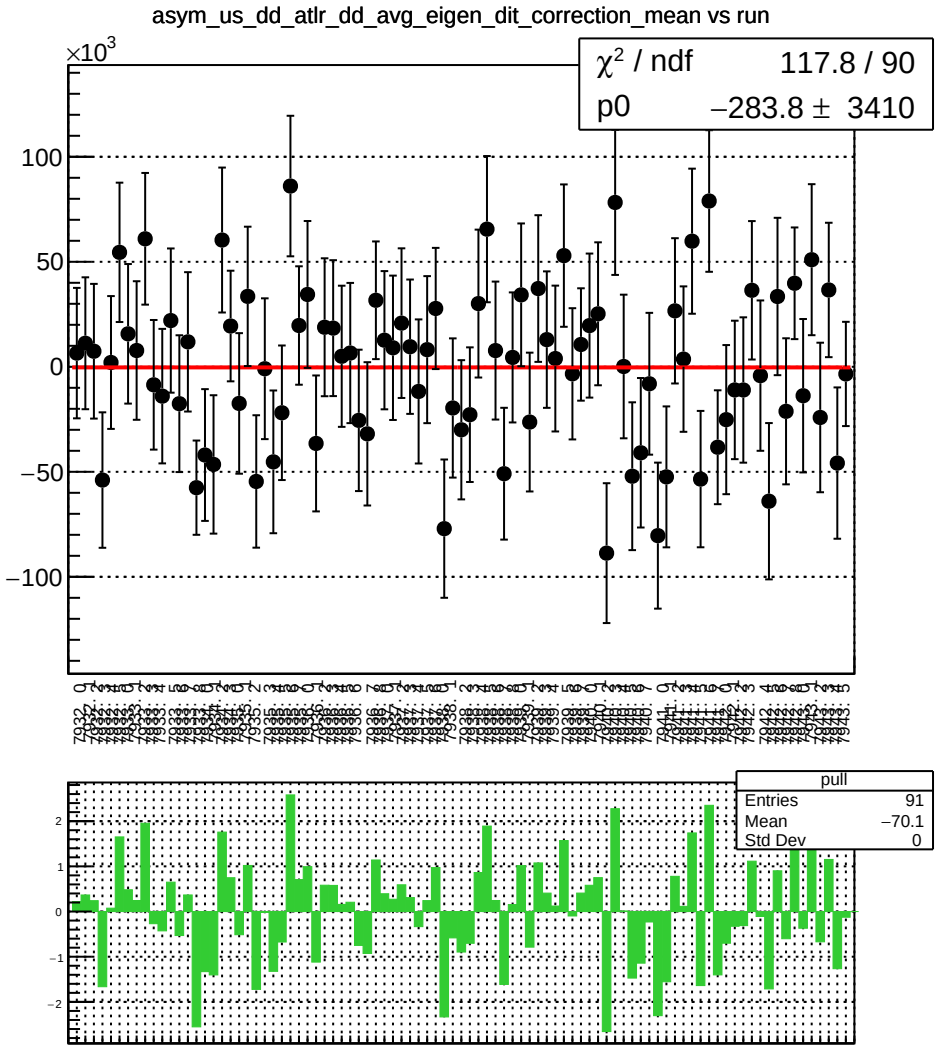

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 117.8 / 90
p0 −283.8 ± 3410
100
50
0
−50
−100
pull
Entries 91
Mean −70.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.008704
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

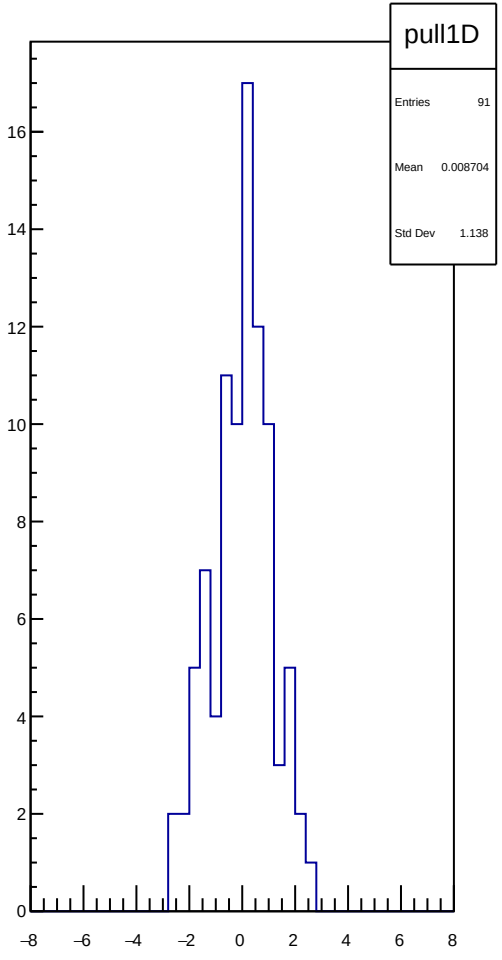

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3053 / 90
p0 3185 ± 2.411
3600
3500
3400
3300
3200
3100
3000
2900

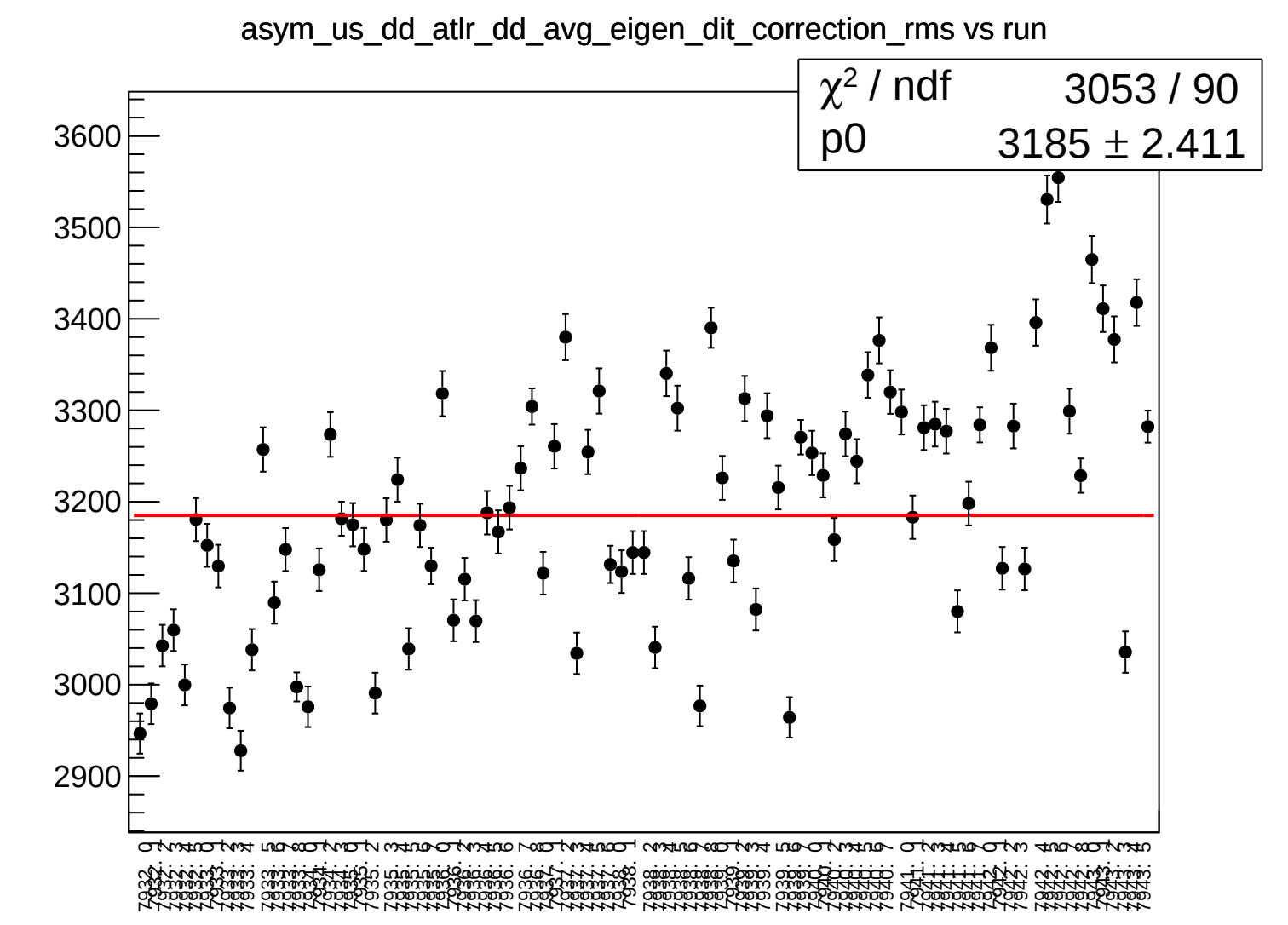

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.41 / 90
p0 −805.4 ± 1907
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −221.1
Std Dev 0
3
2
1
0
−1
−2

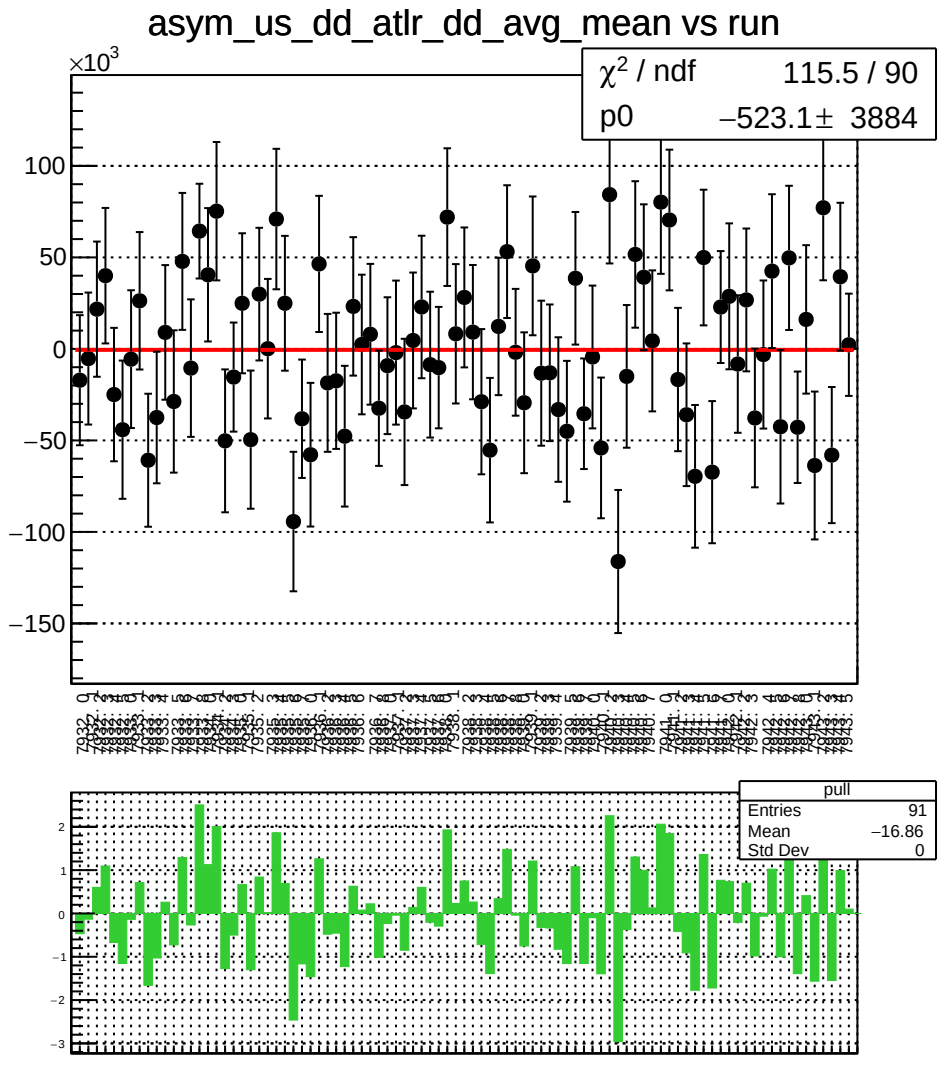

pull1D
Entries 91
Mean 0.005046
Std Dev 0.9688
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

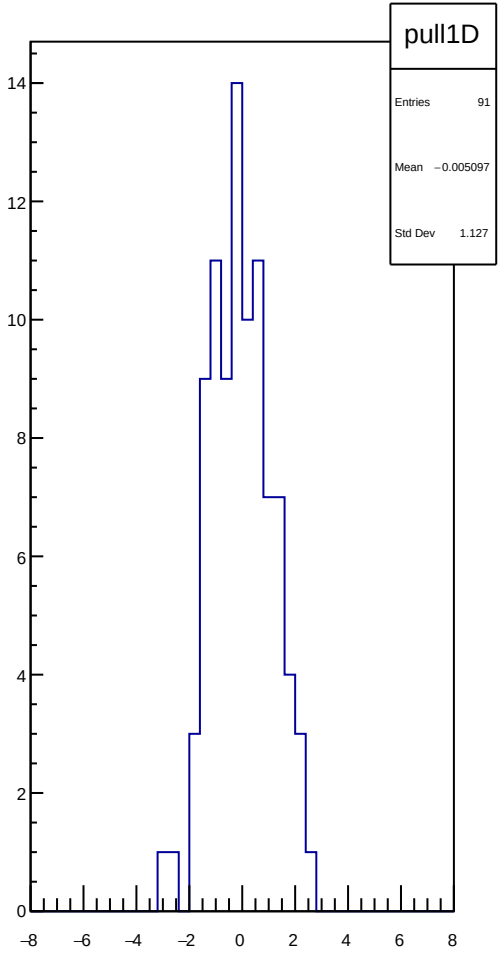

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 89.85 / 90
p0 1783 ± 1.349
1840
1820
1800
1780
1760
1740

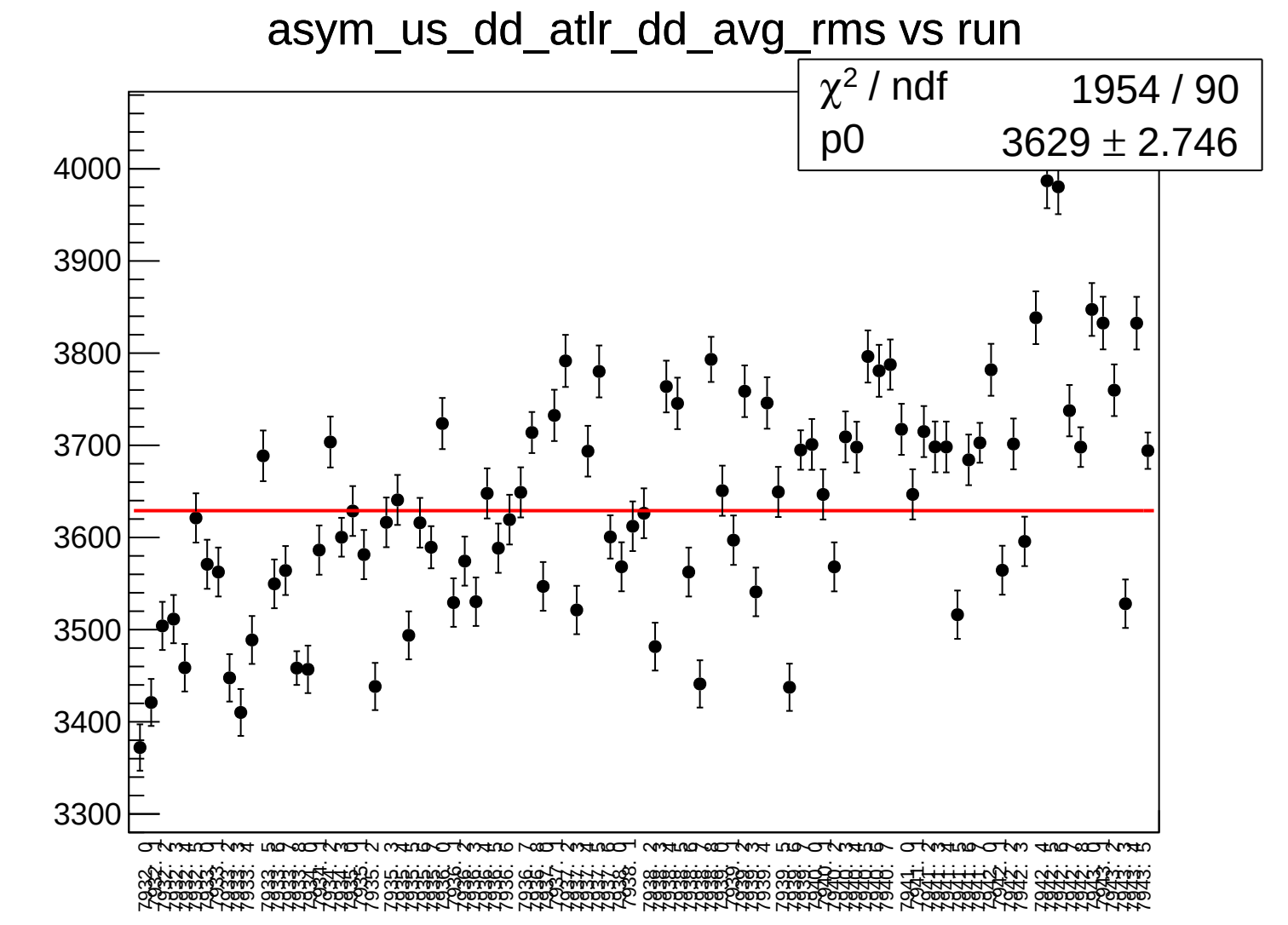

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 117.8 / 90
p0 −283.8 ± 3410
100
50
0
−50
−100
pull
Entries 91
Mean −70.1
Std Dev 0
2
1
0
−1
−2

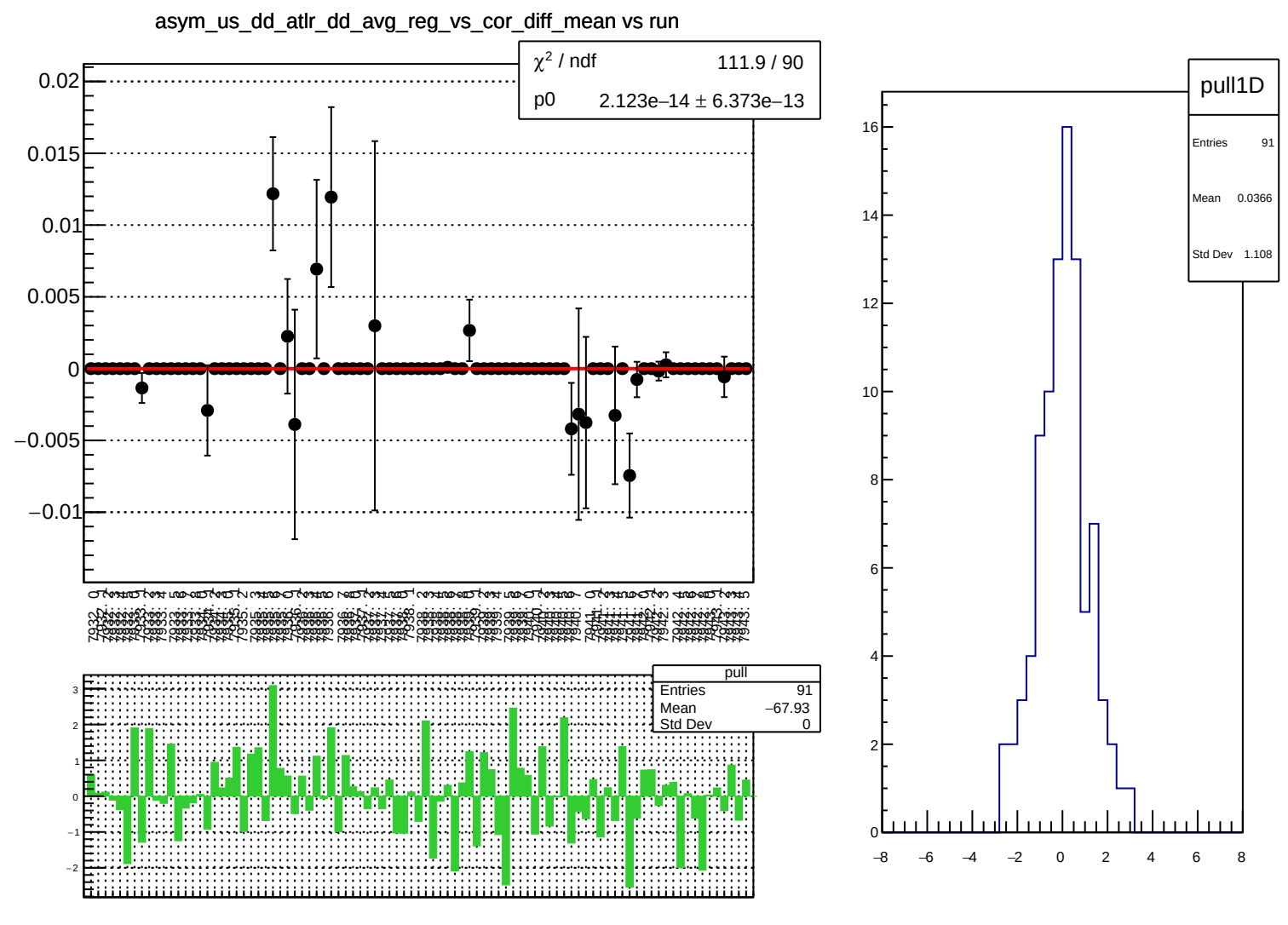

pull1D
Entries 91
Mean 0.008704
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

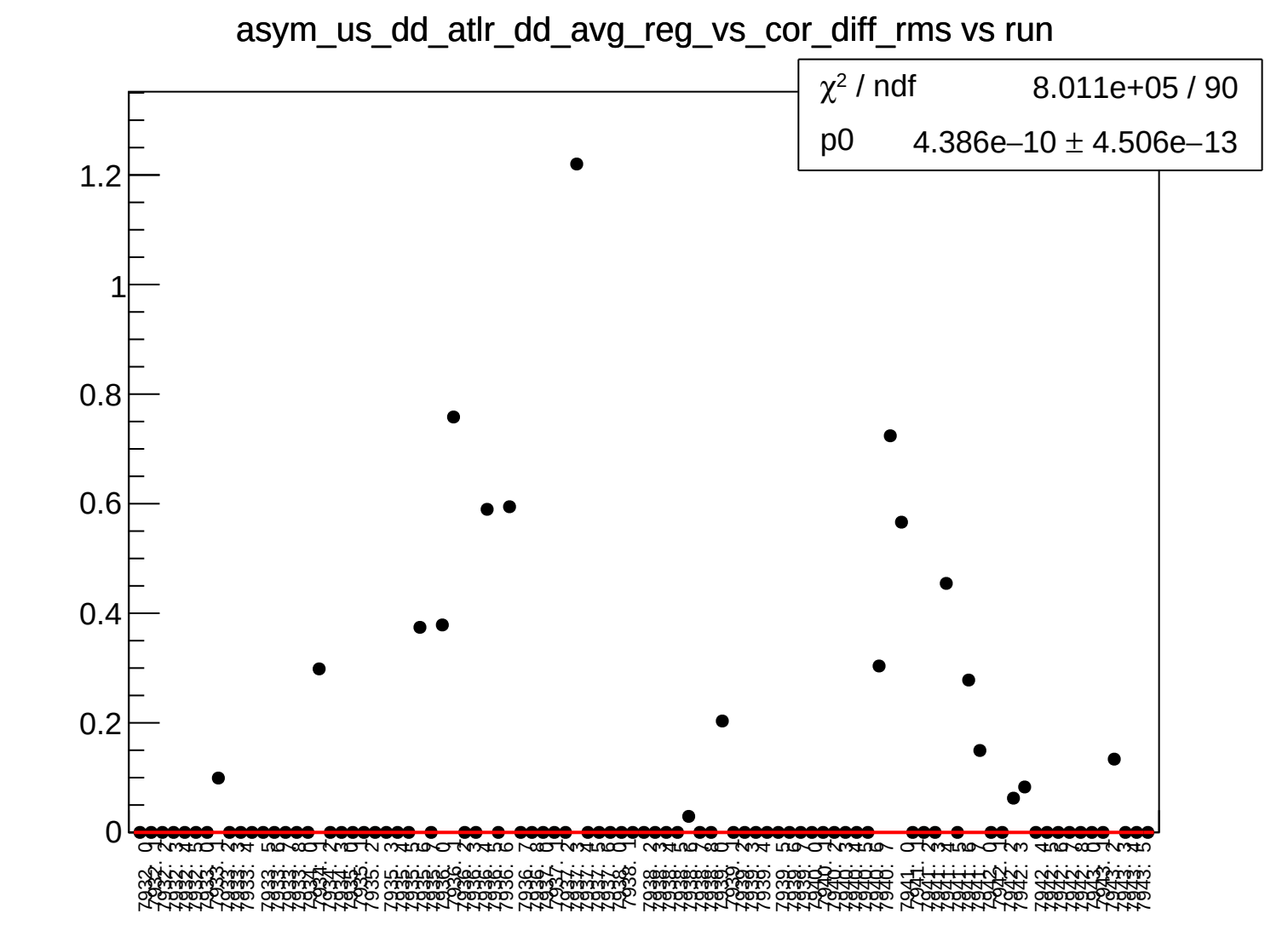

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3053 / 90
p0 3185 ± 2.411
3600
3500
3400
3300
3200
3100
3000
2900

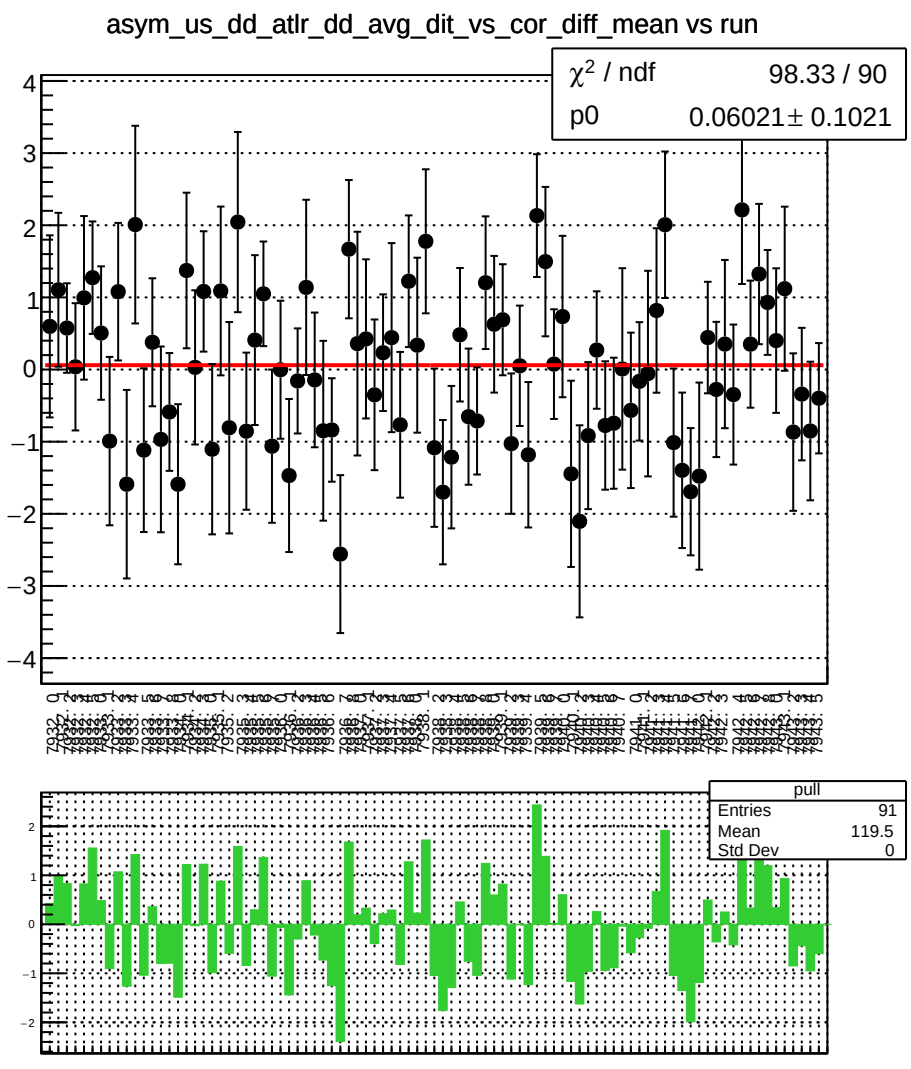

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 115.5 / 90
p0 −523.1± 3884
100
50
0
−50
−100
−150
pull
Entries 91
Mean −16.86
Std Dev 0
2
1
0
−1
−2
−3

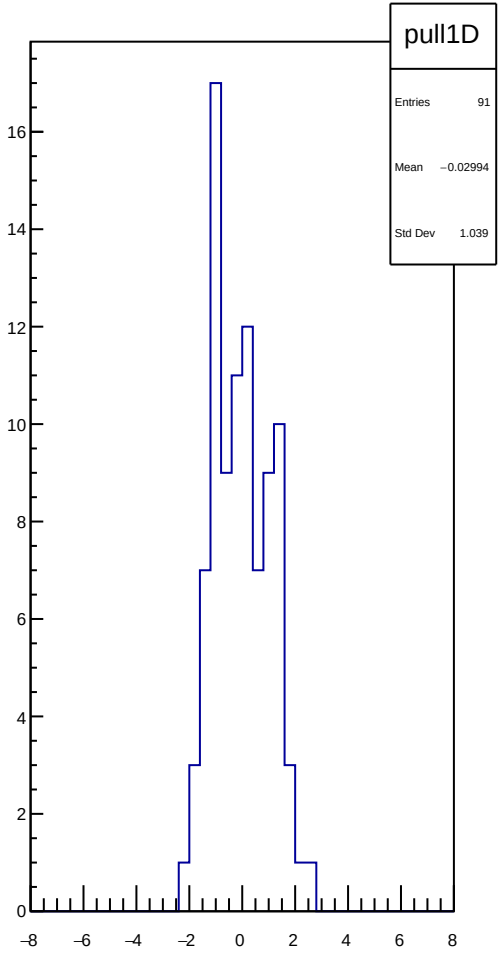

pull1D
Entries 91
Mean −0.005097
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

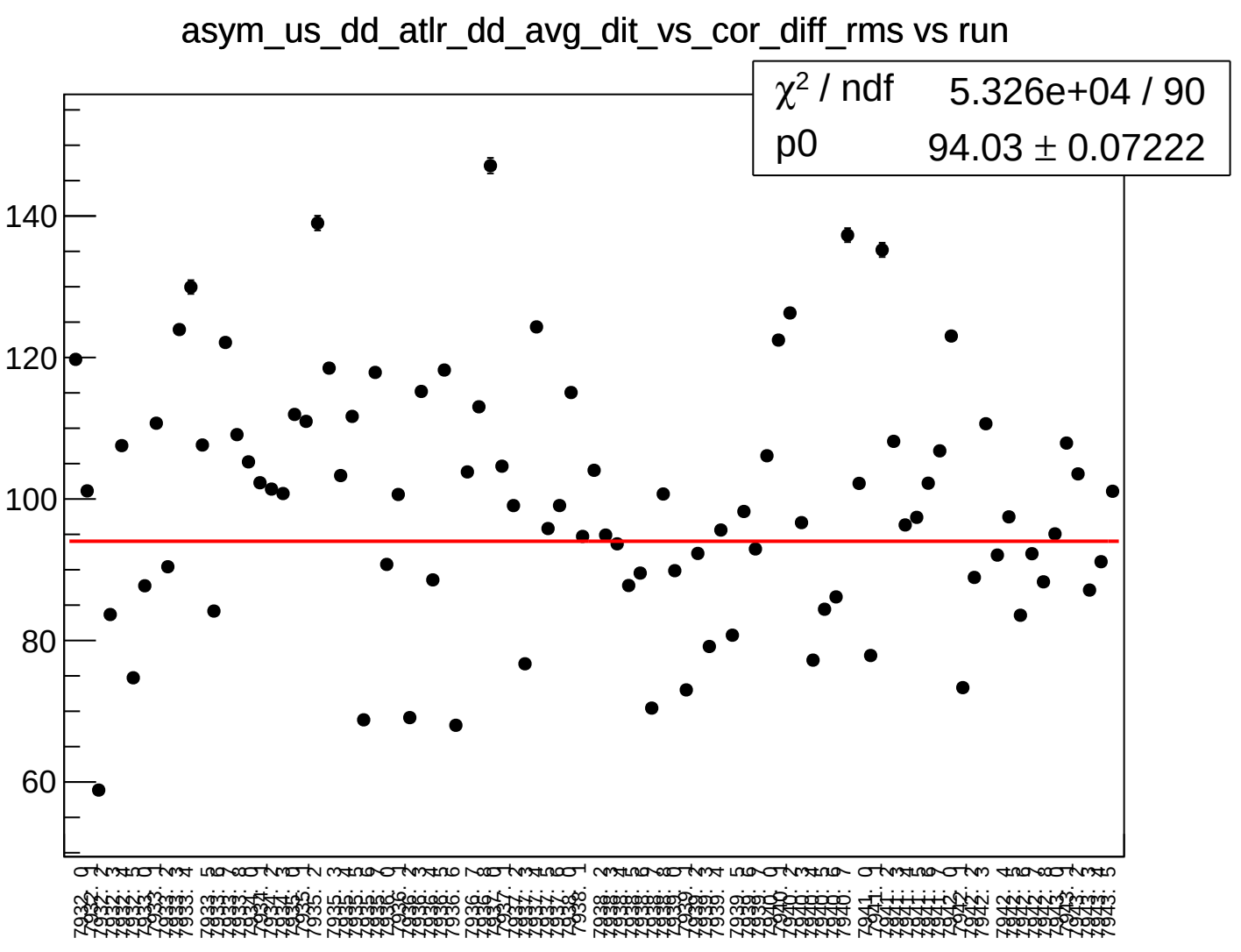

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1954 / 90
p0 3629 ± 2.746
4000
3900
3800
3700
3600
3500
3400
3300

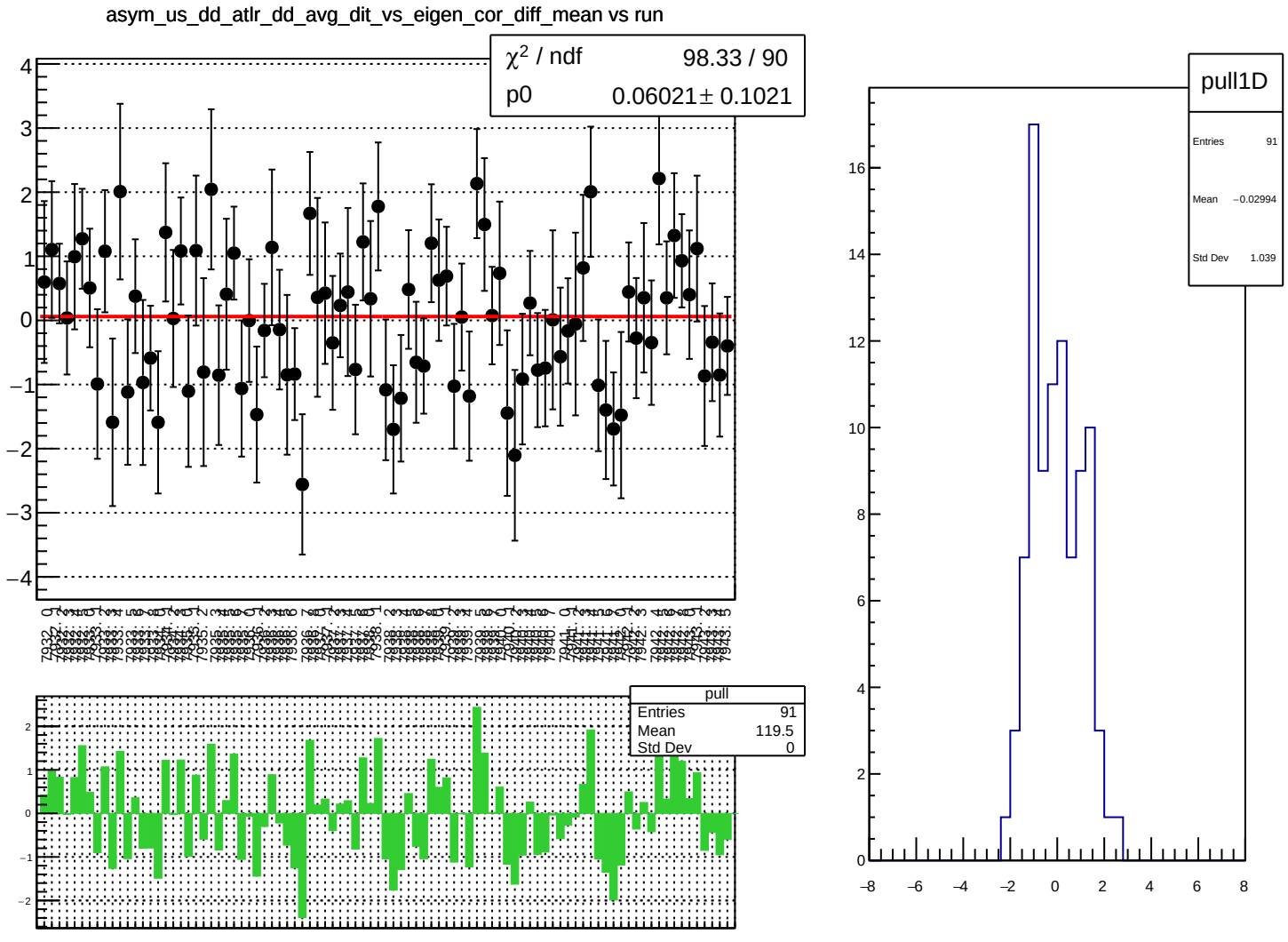

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.9 / 90
p0 2.123e−14 ± 6.373e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean −67.93
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0366
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

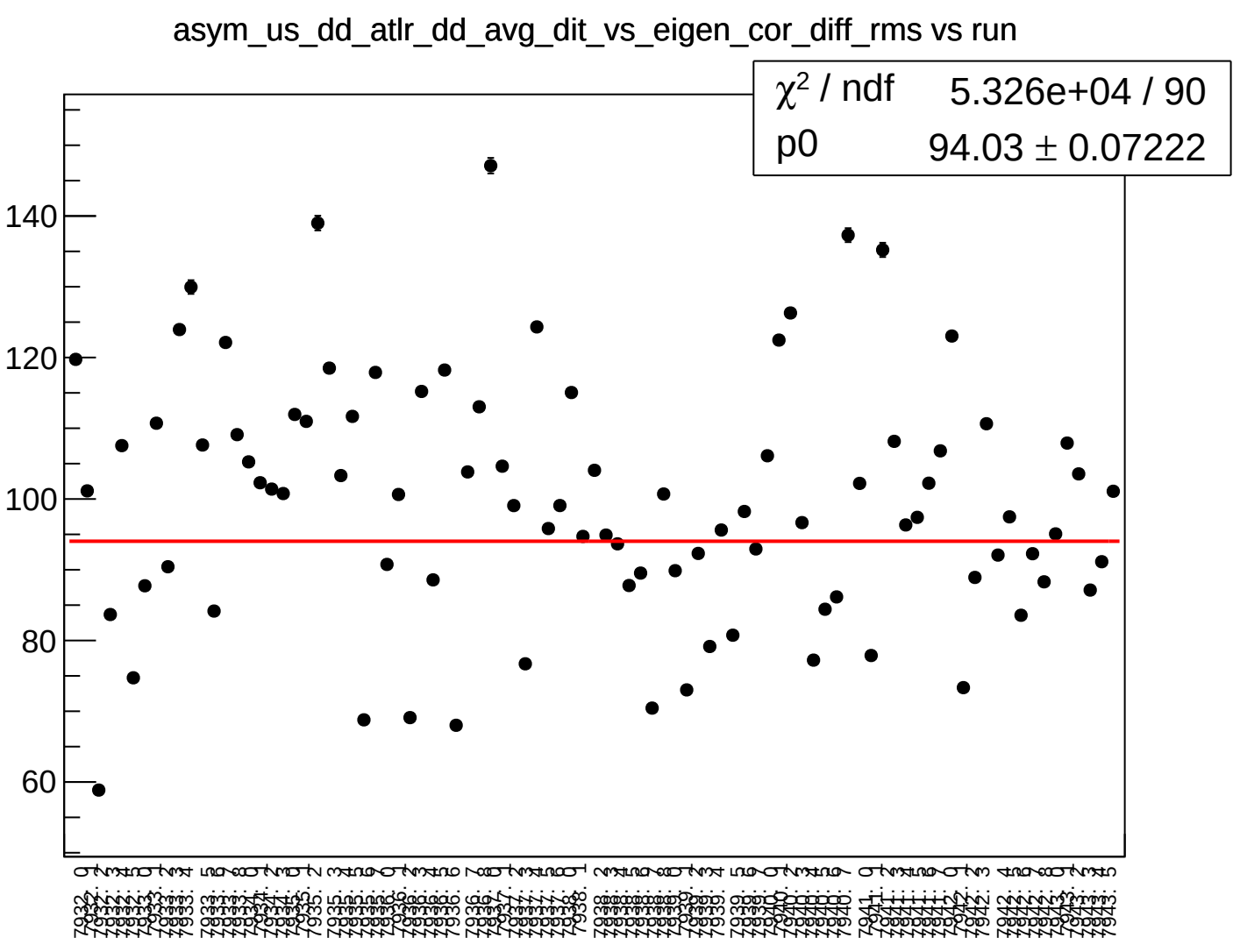

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.011e+05 / 90
p0 4.386e−10 ± 4.506e−13
1.2
1
0.8
0.6
0.4
0.2
0

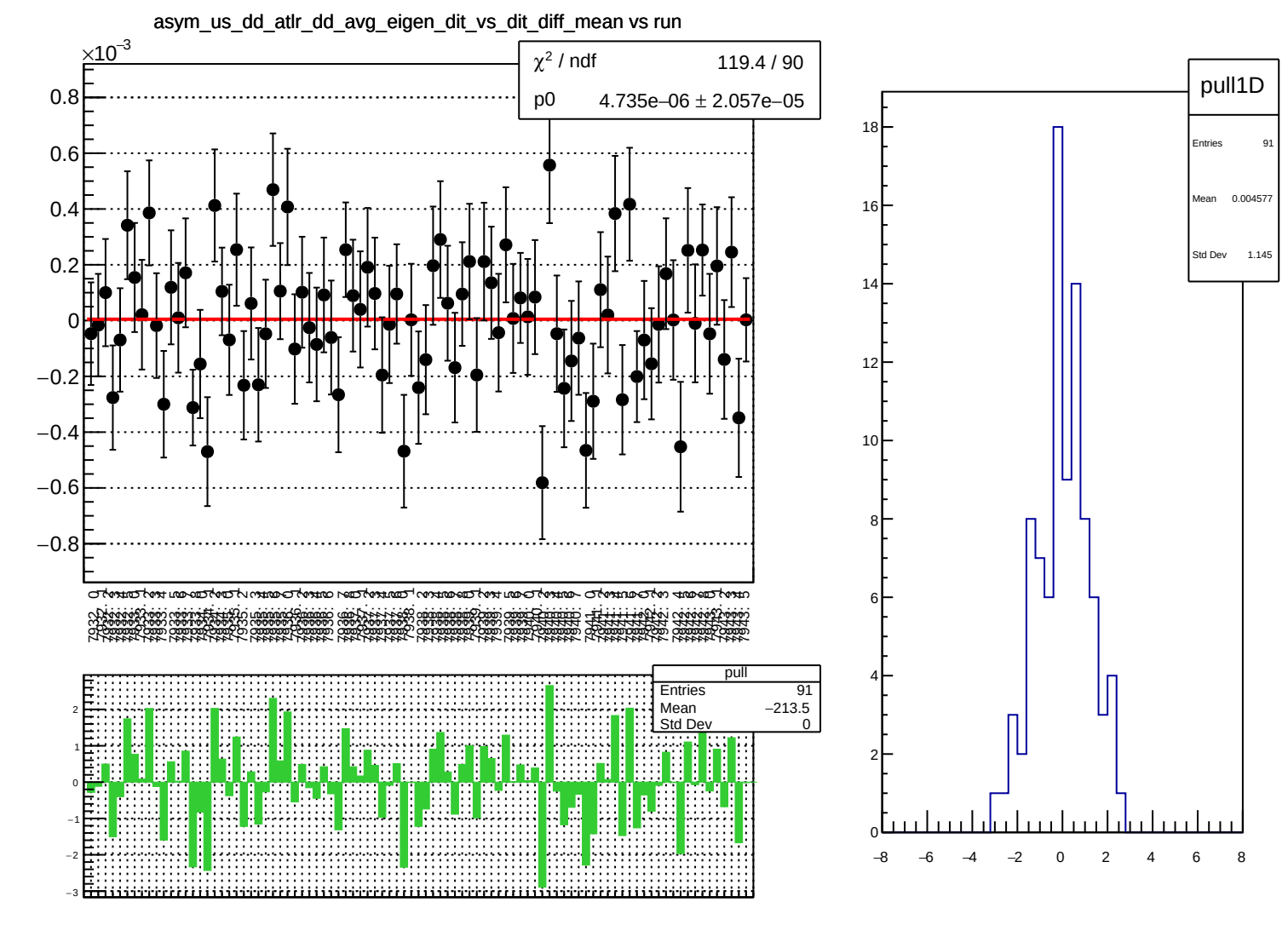

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.33 / 90
p0 0.06021 ± 0.1021
pull
Entries 91
Mean 119.5
Std Dev 0

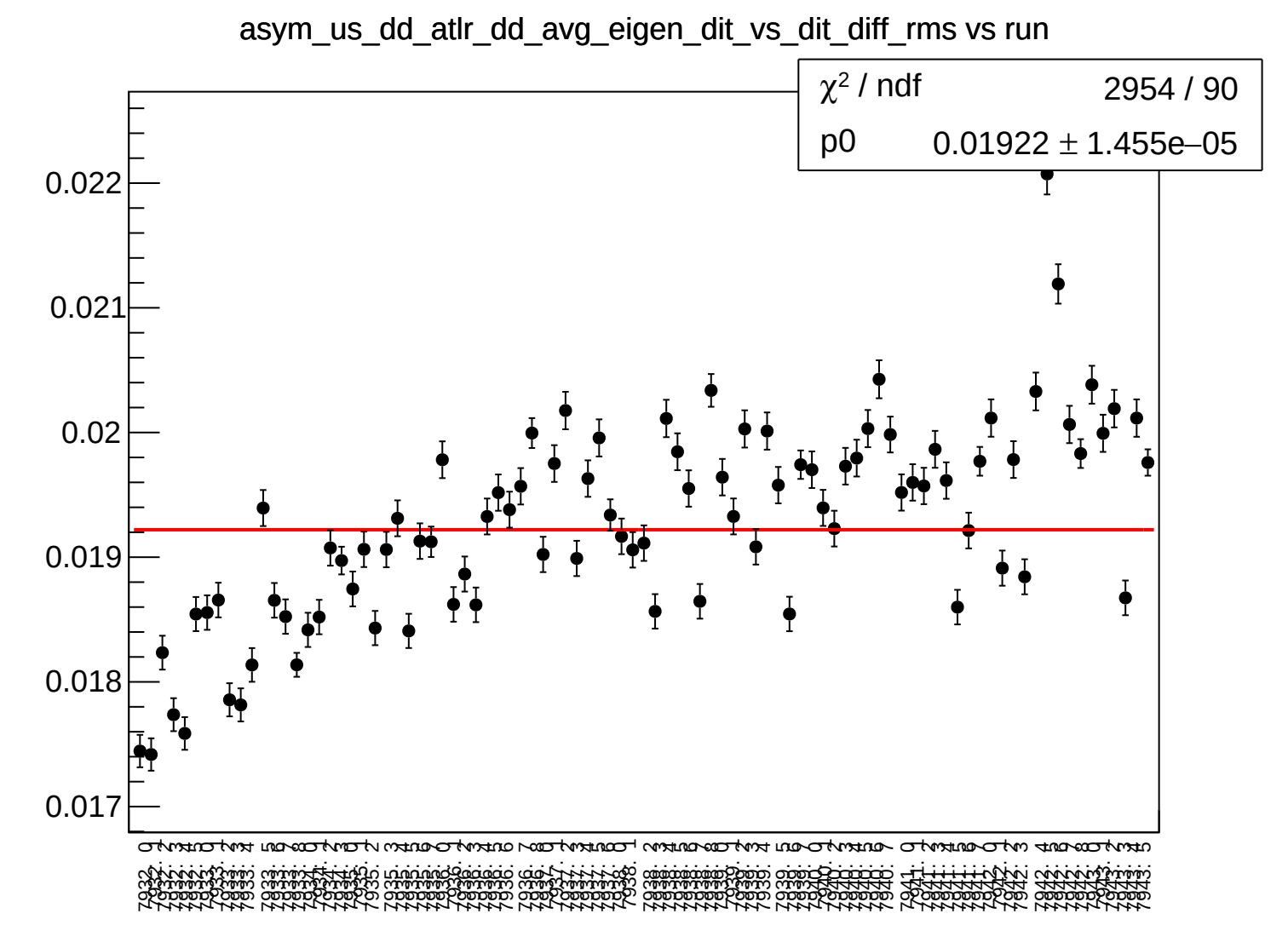

pull1D
Entries 91
Mean −0.02994
Std Dev 1.039

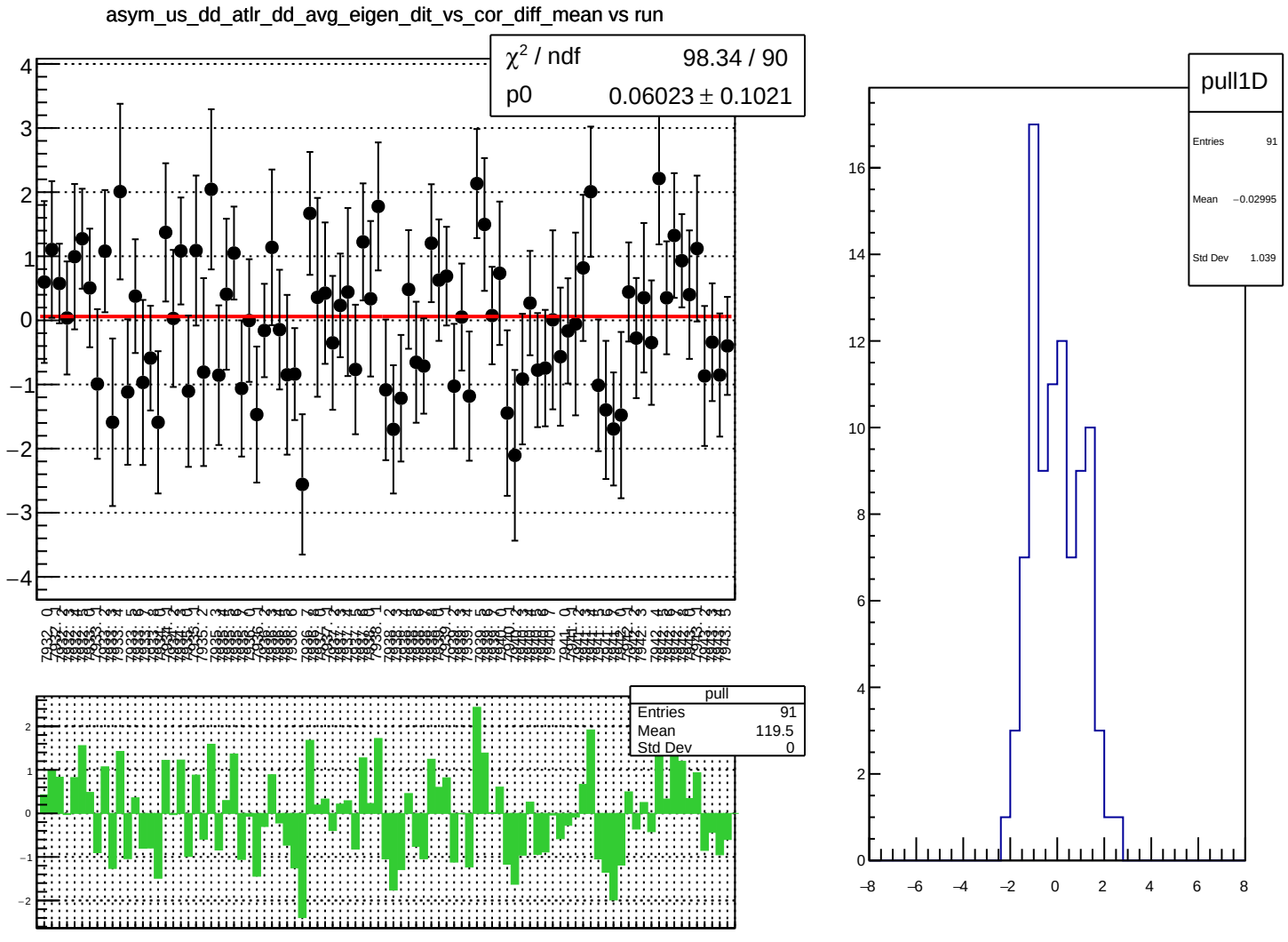

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.326e+04 / 90
p0 94.03 ± 0.07222
140
120
100
80
60

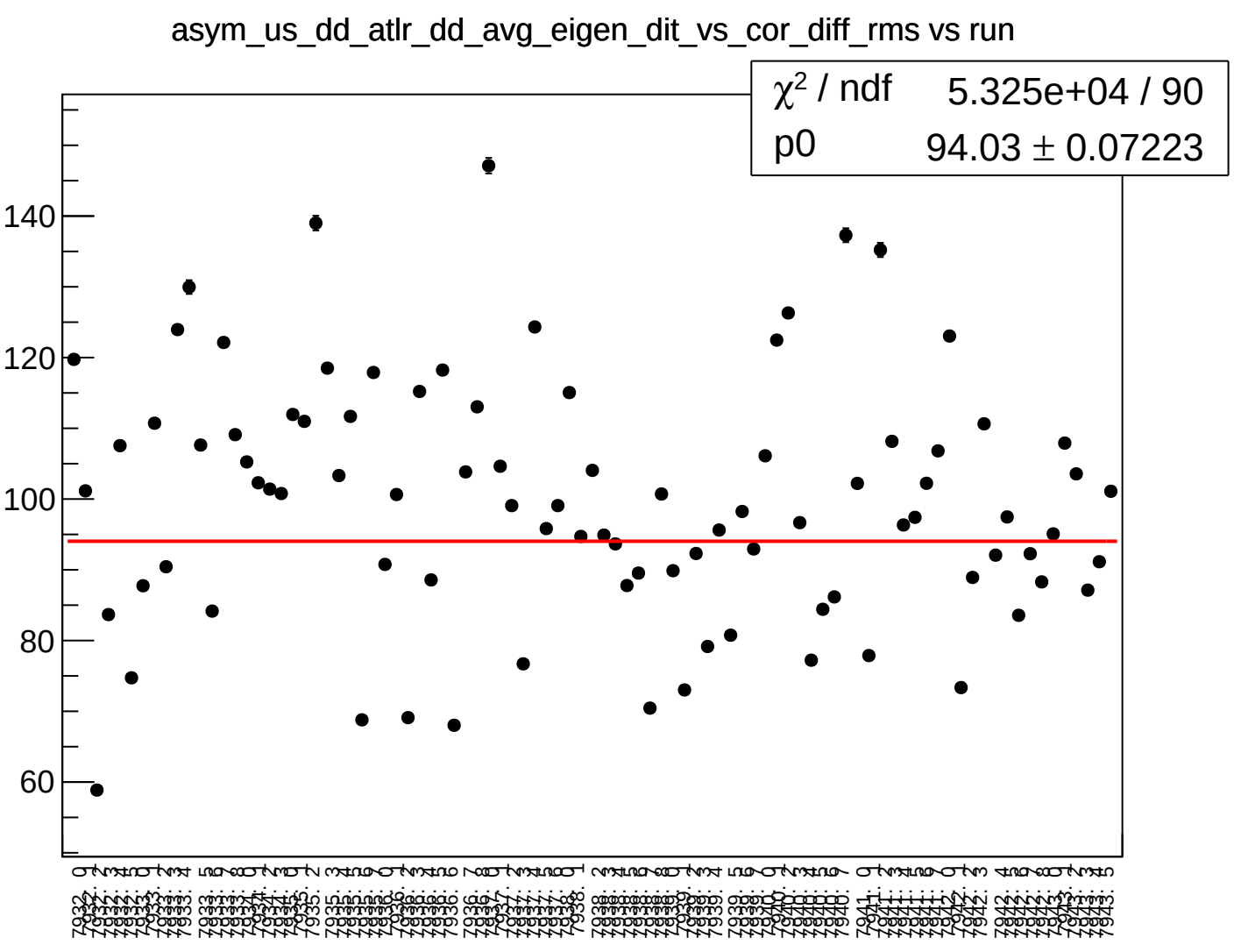

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.33 / 90
p0 0.06021 ± 0.1021
pull
Entries 91
Mean 119.5
Std Dev 0
pull1D
Entries 91
Mean −0.02994
Std Dev 1.039

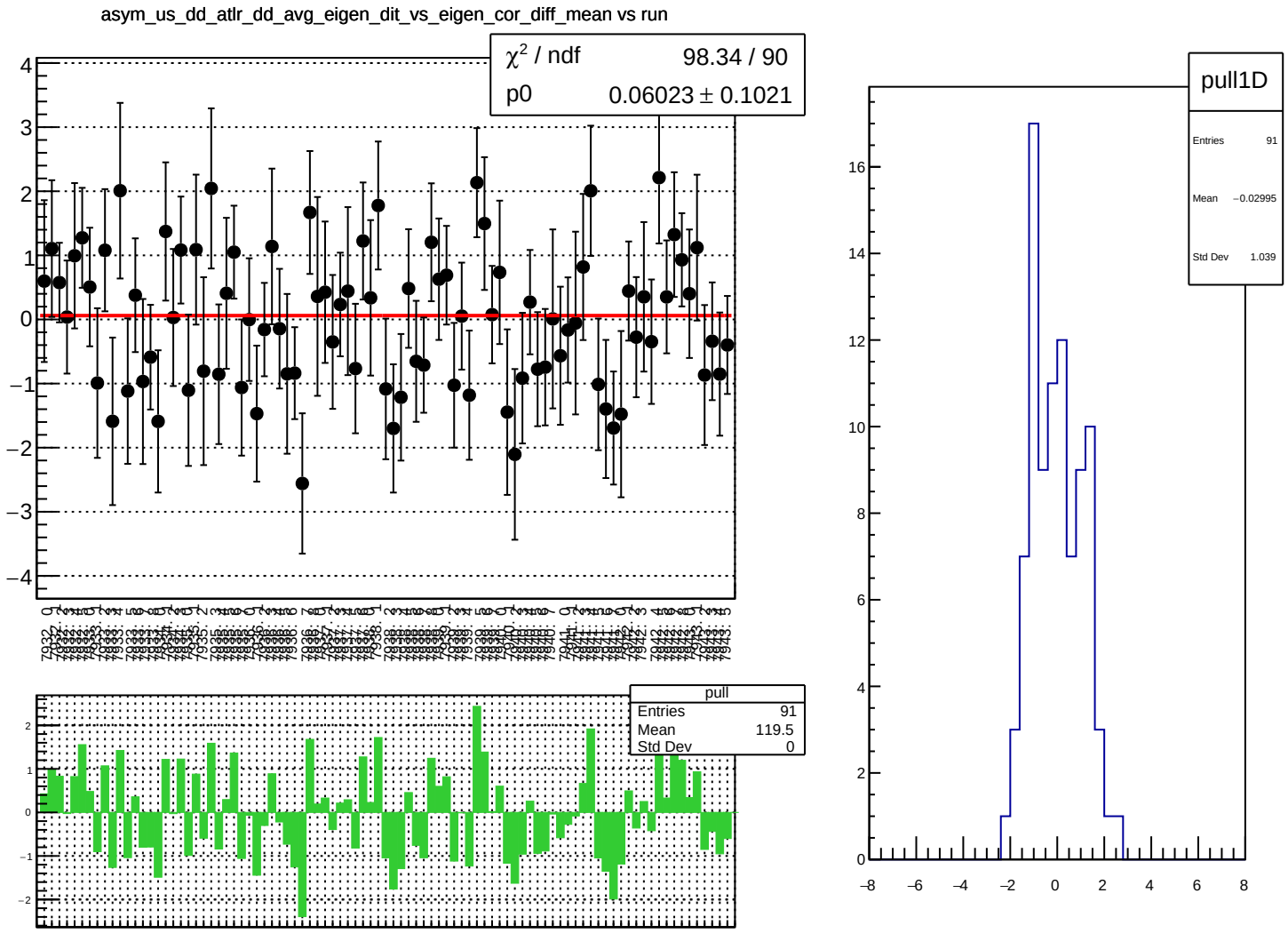

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.326e+04 / 90
p0 94.03 ± 0.07222
140
120
100
80
60

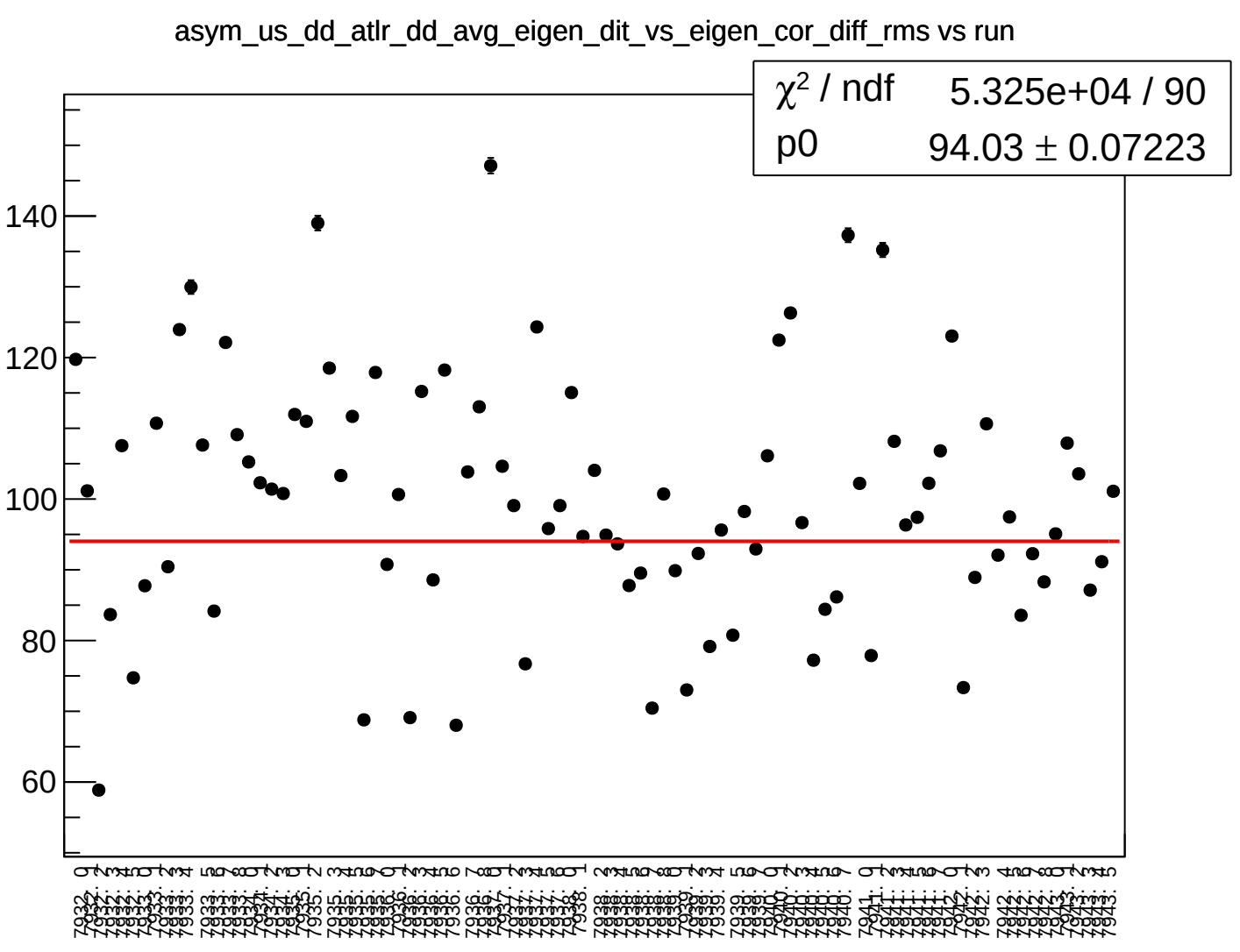

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 119.4 / 90
p0 4.735e−06 ± 2.057e−05
pull
Entries 91
Mean −213.5
Std Dev 0
pull1D
Entries 91
Mean 0.004577
Std Dev 1.145

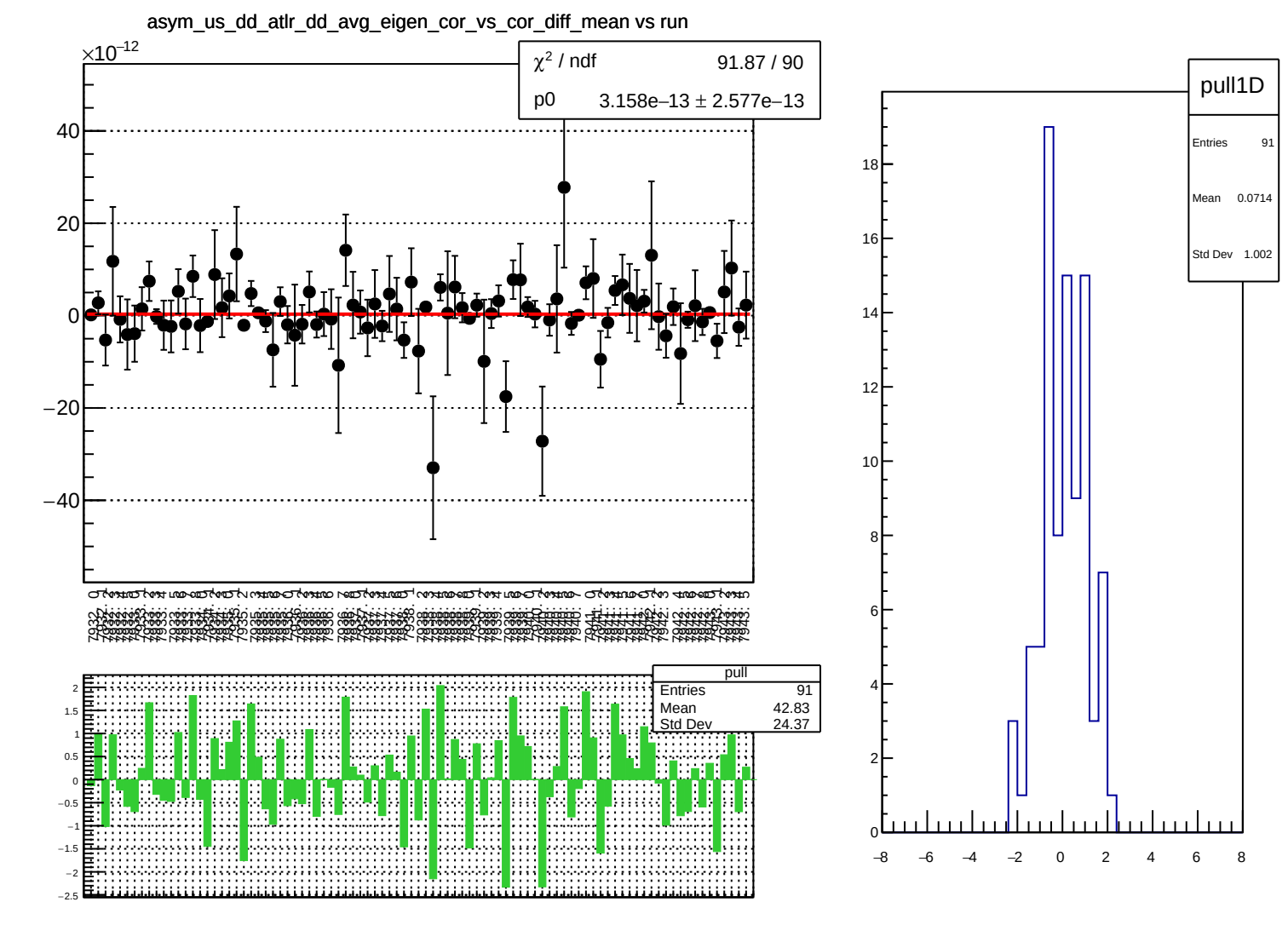

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2954 / 90
p0 0.01922 ± 1.455e−05
0.022
0.021
0.02
0.019
0.018
0.017

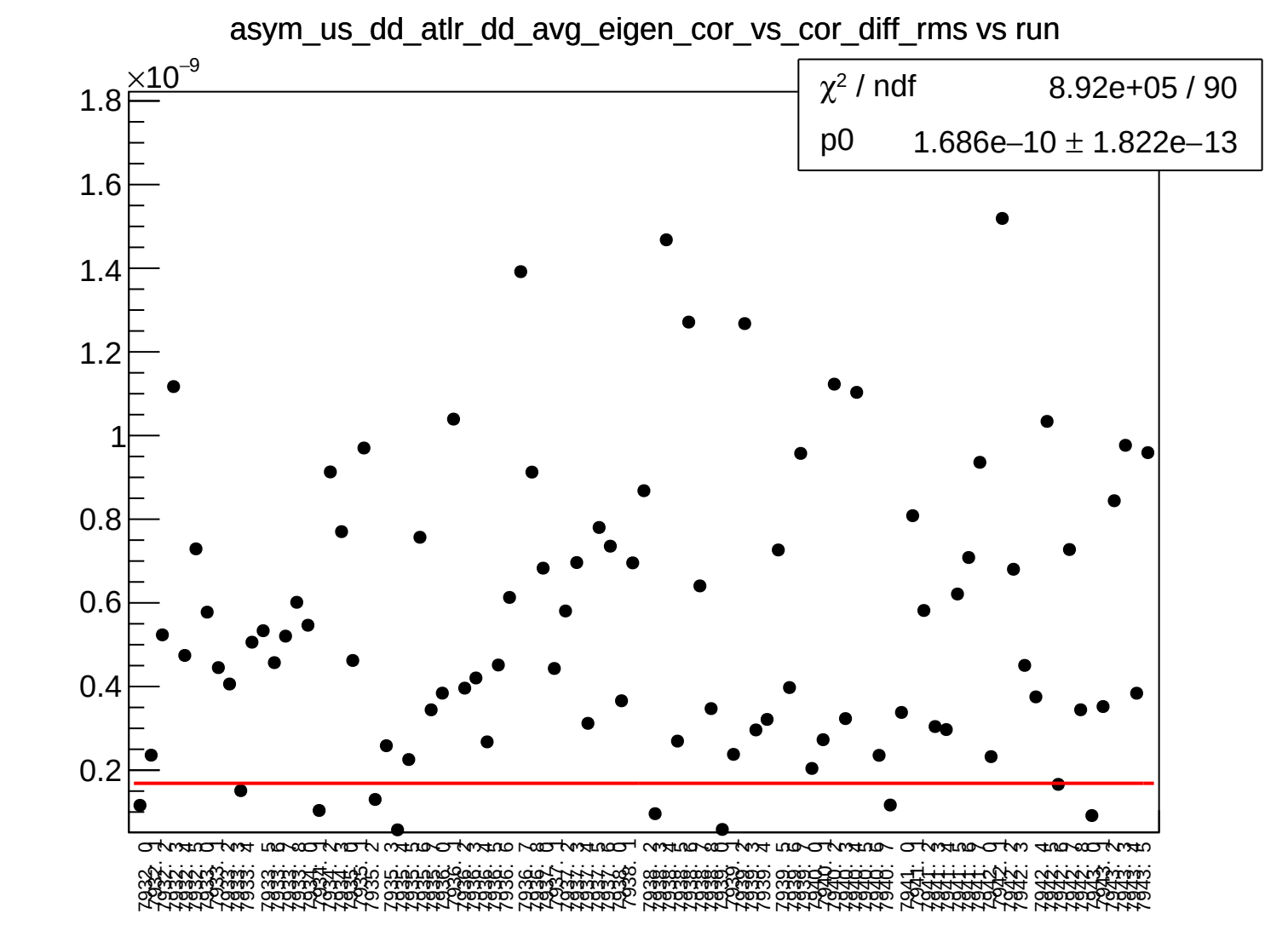

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.34 / 90
p0 0.06023 ± 0.1021
pull
Entries 91
Mean 119.5
Std Dev 0
pull1D
Entries 91
Mean −0.02995
Std Dev 1.039

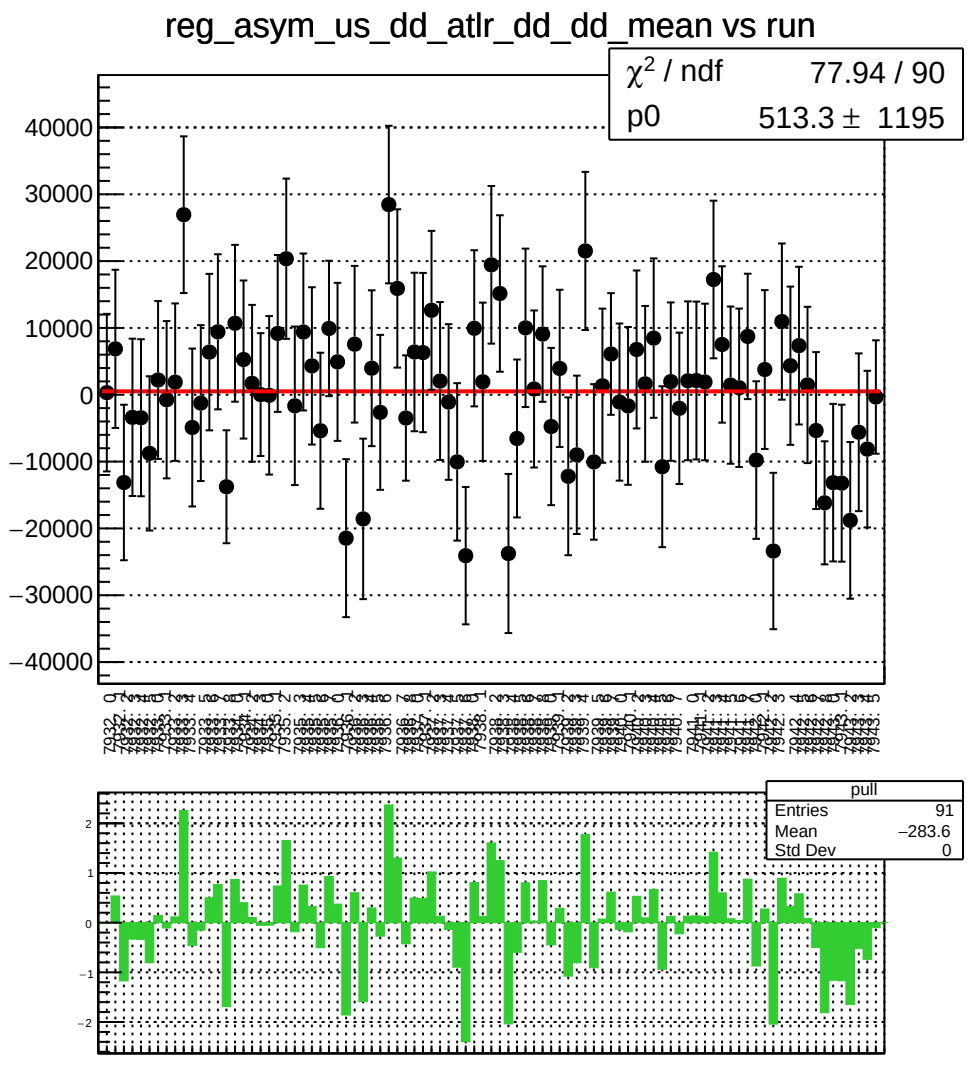

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.325e+04 / 90
p0 94.03 ± 0.07223
140
120
100
80
60

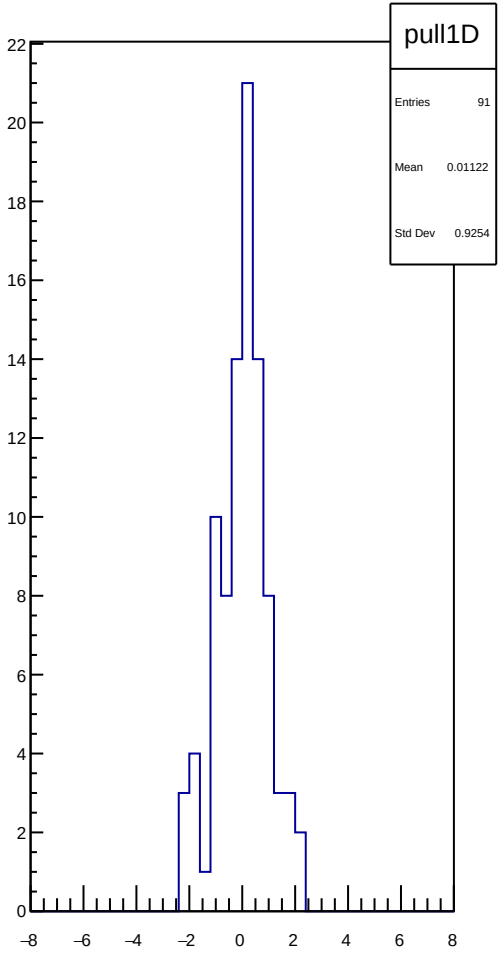

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.34 / 90
p0 0.06023 ± 0.1021
pull
Entries 91
Mean 119.5
Std Dev 0
pull1D
Entries 91
Mean −0.02995
Std Dev 1.039

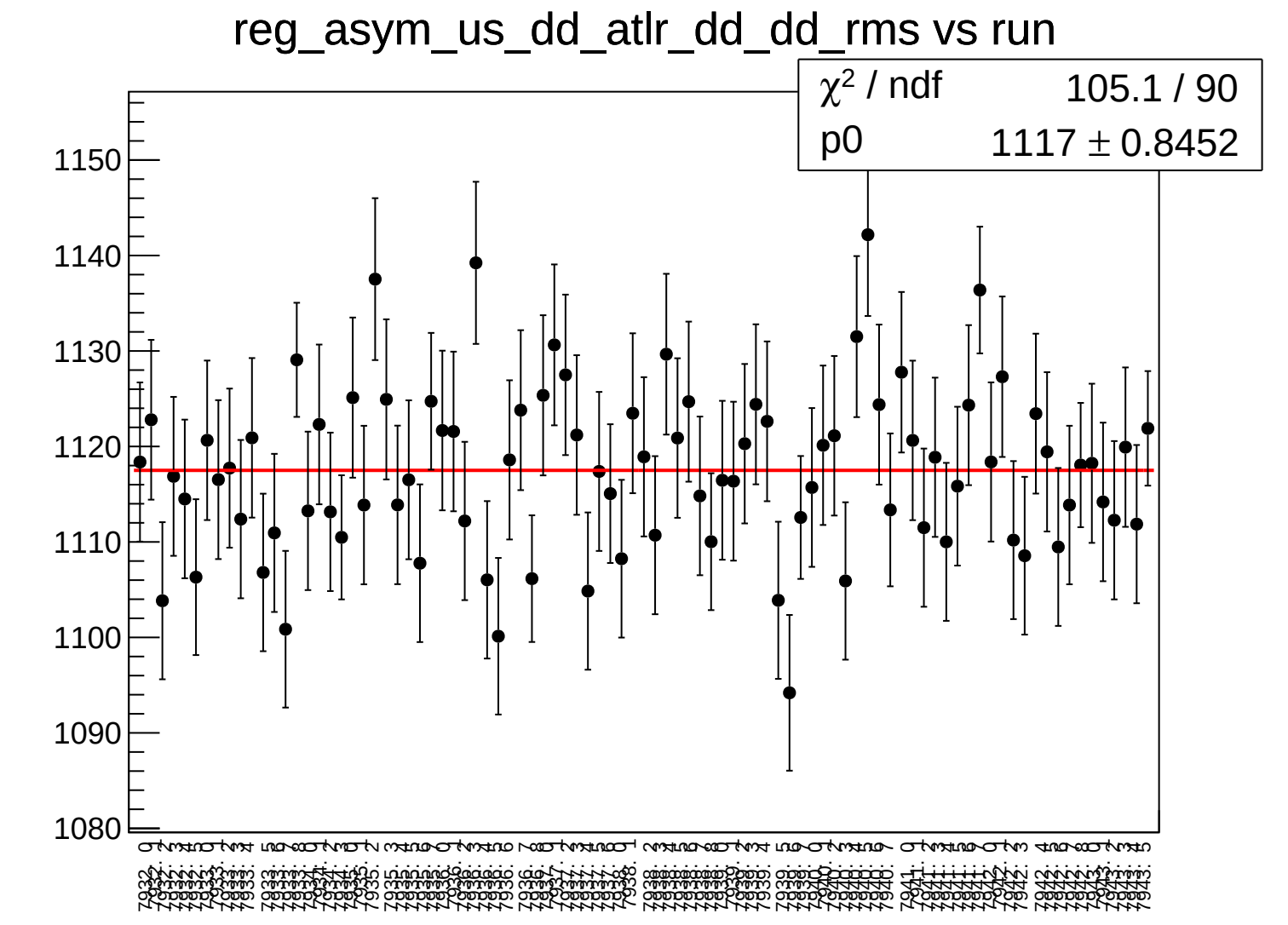

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.325e+04 / 90
p0 94.03 ± 0.07223
140
120
100
80
60

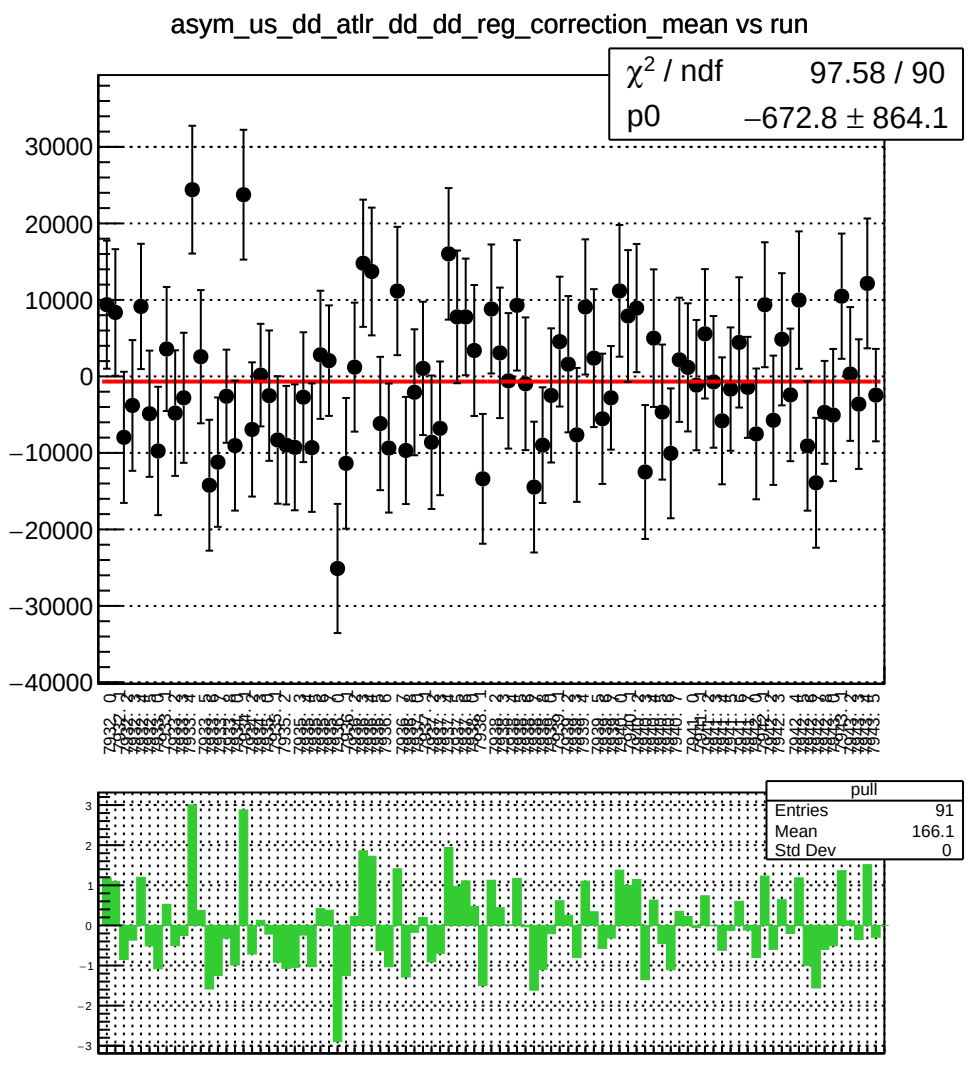

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.87 / 90
p0 3.158e−13 ± 2.577e−13
pull
Entries 91
Mean 42.83
Std Dev 24.37
pull1D
Entries 91
Mean 0.0714
Std Dev 1.002

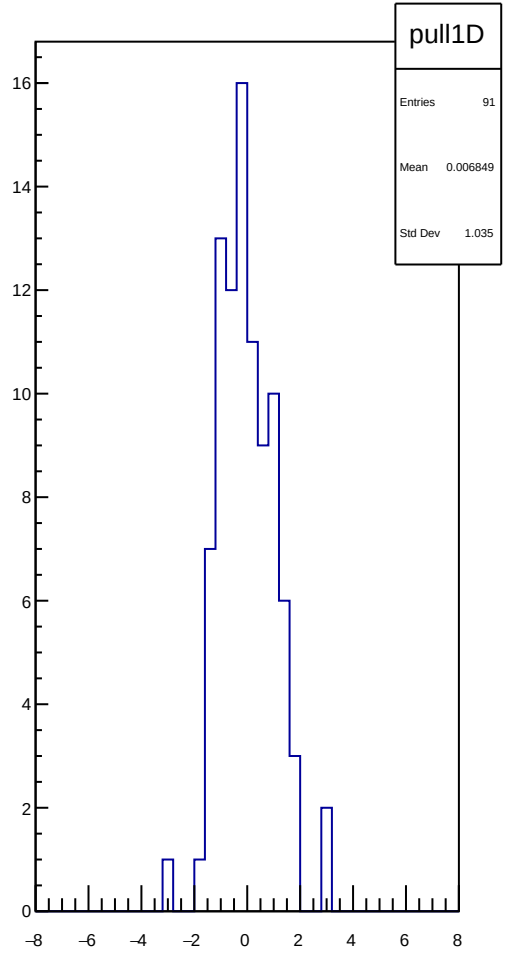

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.92e+05 / 90
p0 1.686e−10 ± 1.822e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

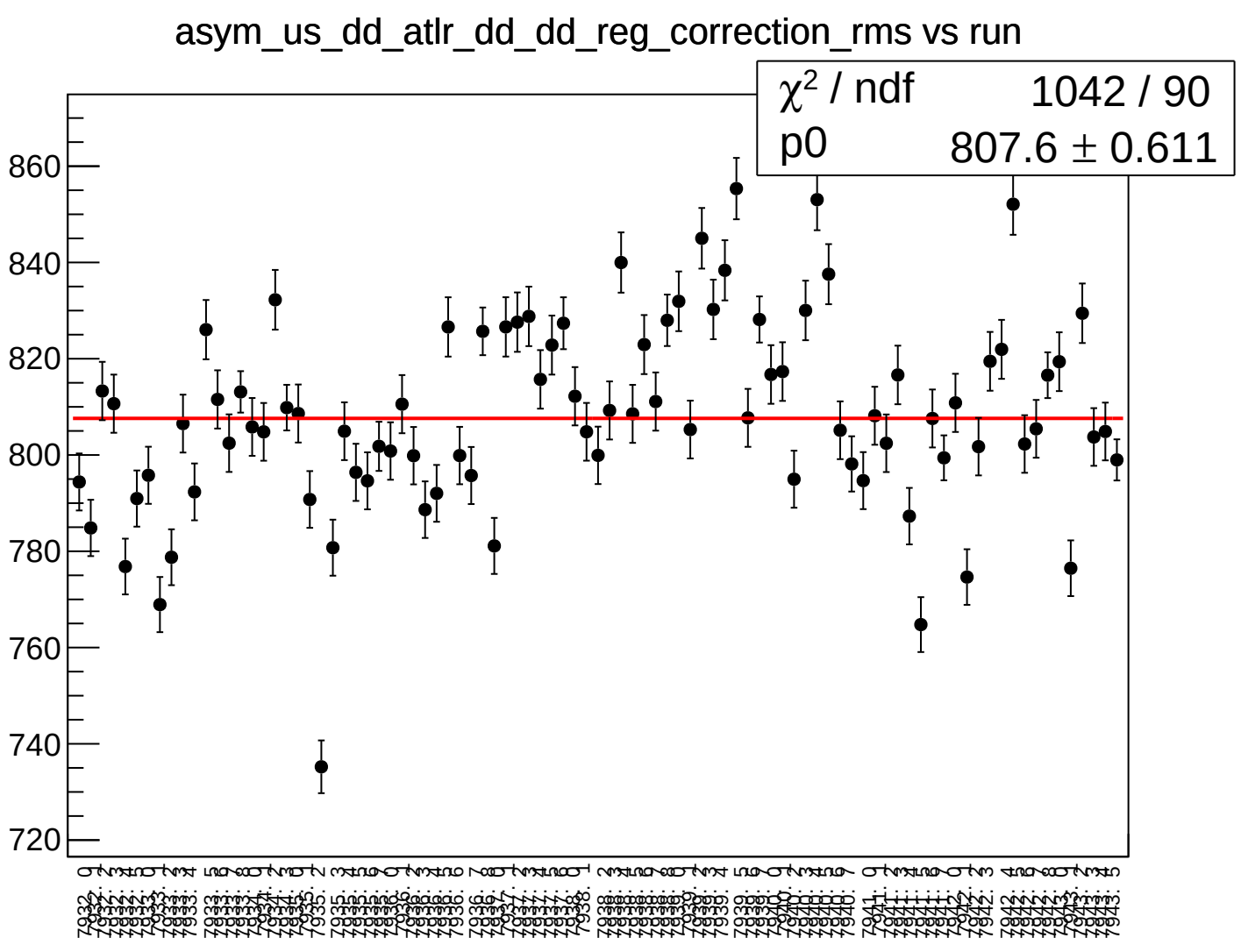

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 77.94 / 90
p0 513.3 ± 1195
pull
Entries 91
Mean −283.6
Std Dev 0

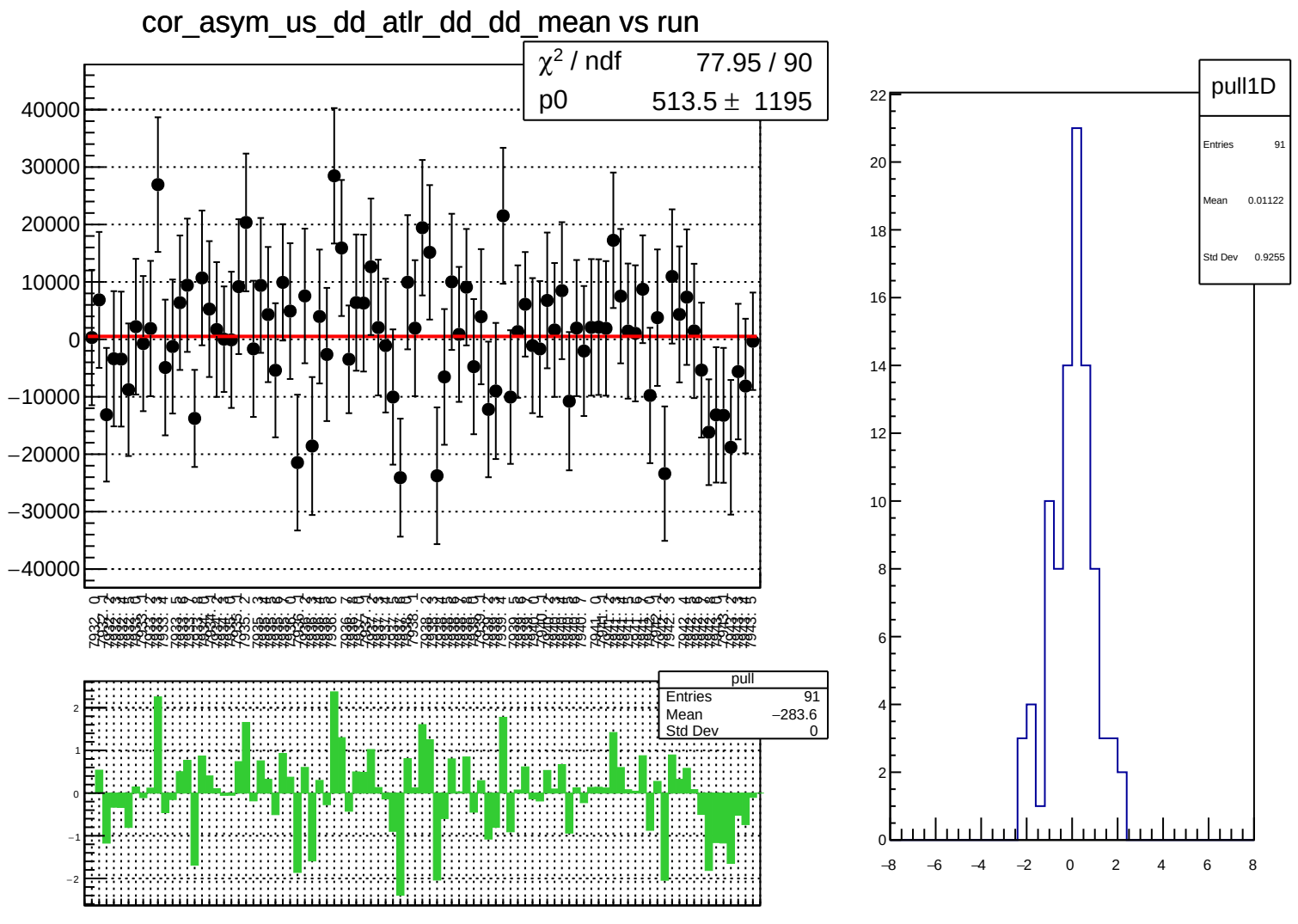

pull1D
Entries 91
Mean 0.01122
Std Dev 0.9254

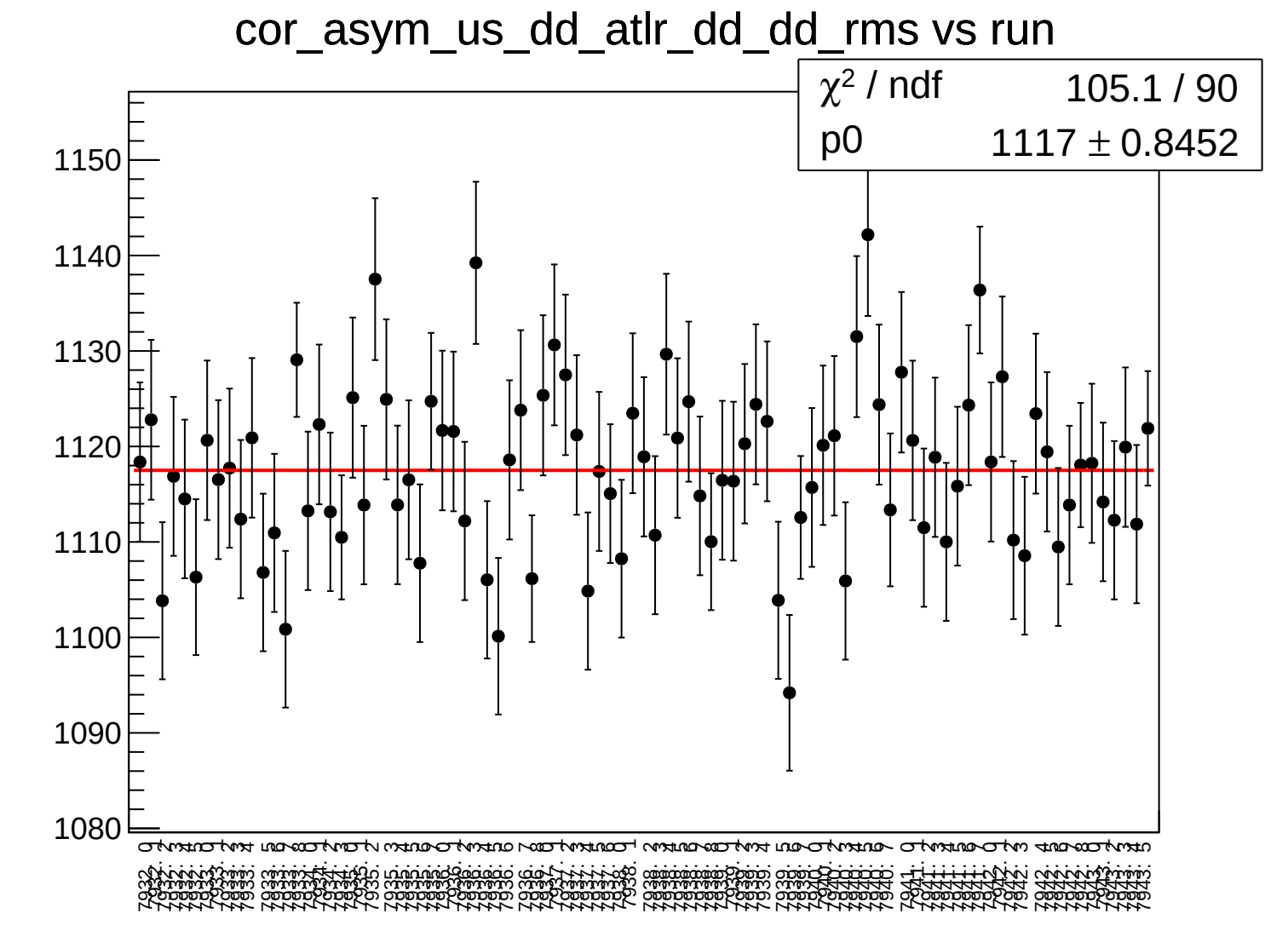

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 105.1 / 90
p0 1117 ± 0.8452
1150
1140
1130
1120
1110
1100
1090
1080

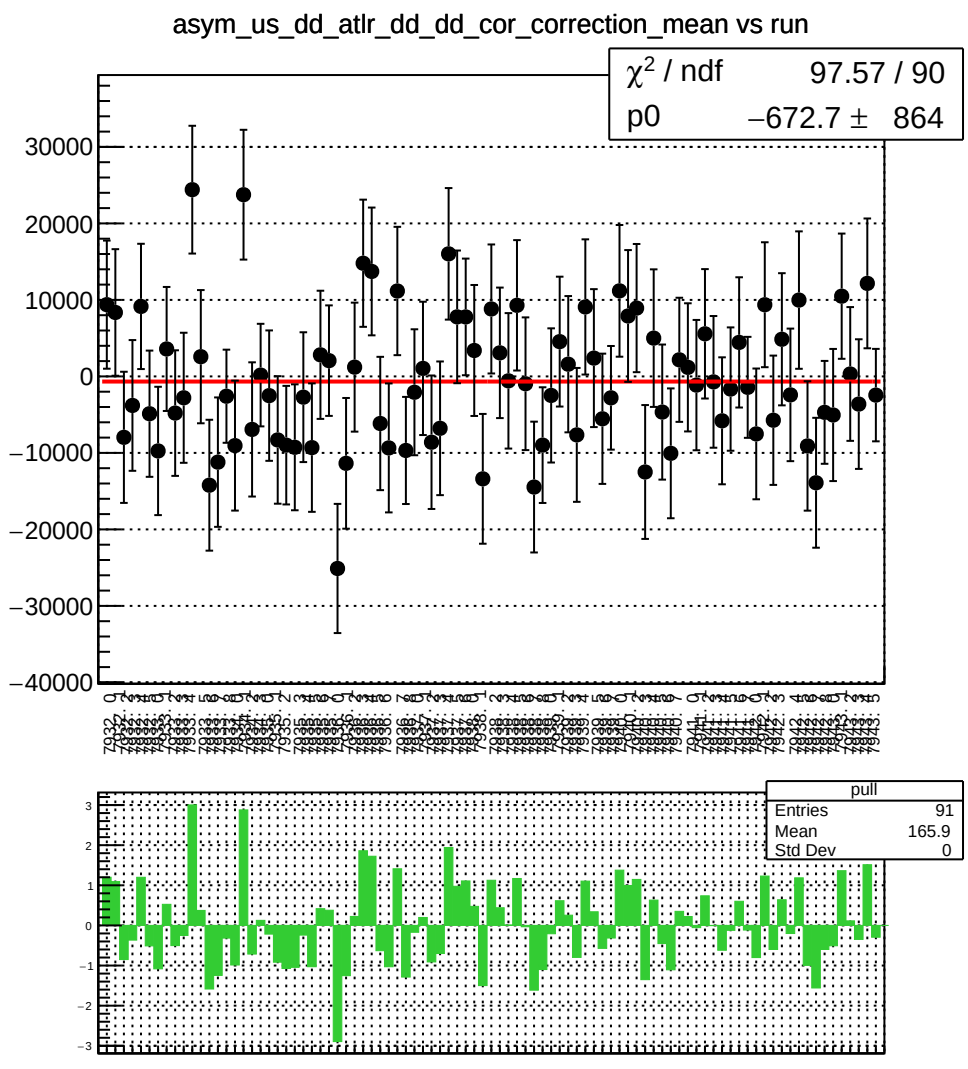

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 97.58 / 90
p0 −672.8 ± 864.1
pull
Entries 91
Mean 166.1
Std Dev 0

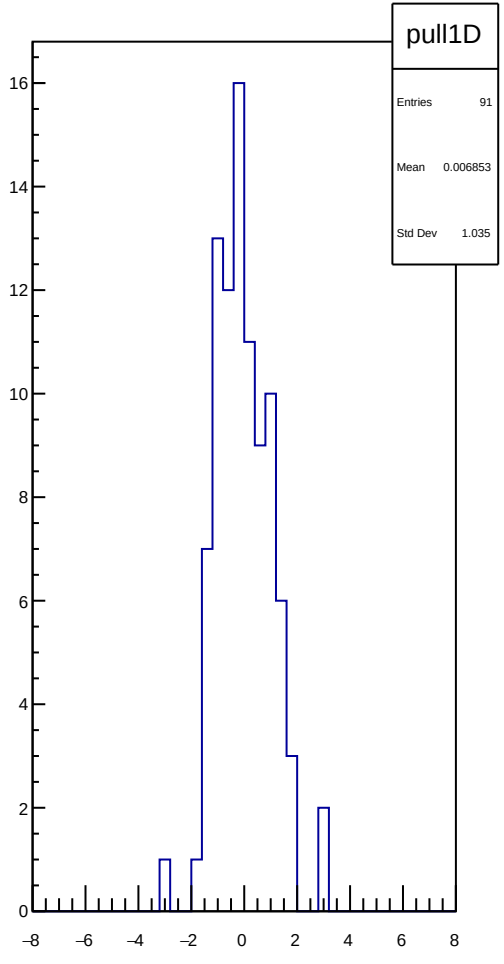

pull1D
Entries 91
Mean 0.006849
Std Dev 1.035

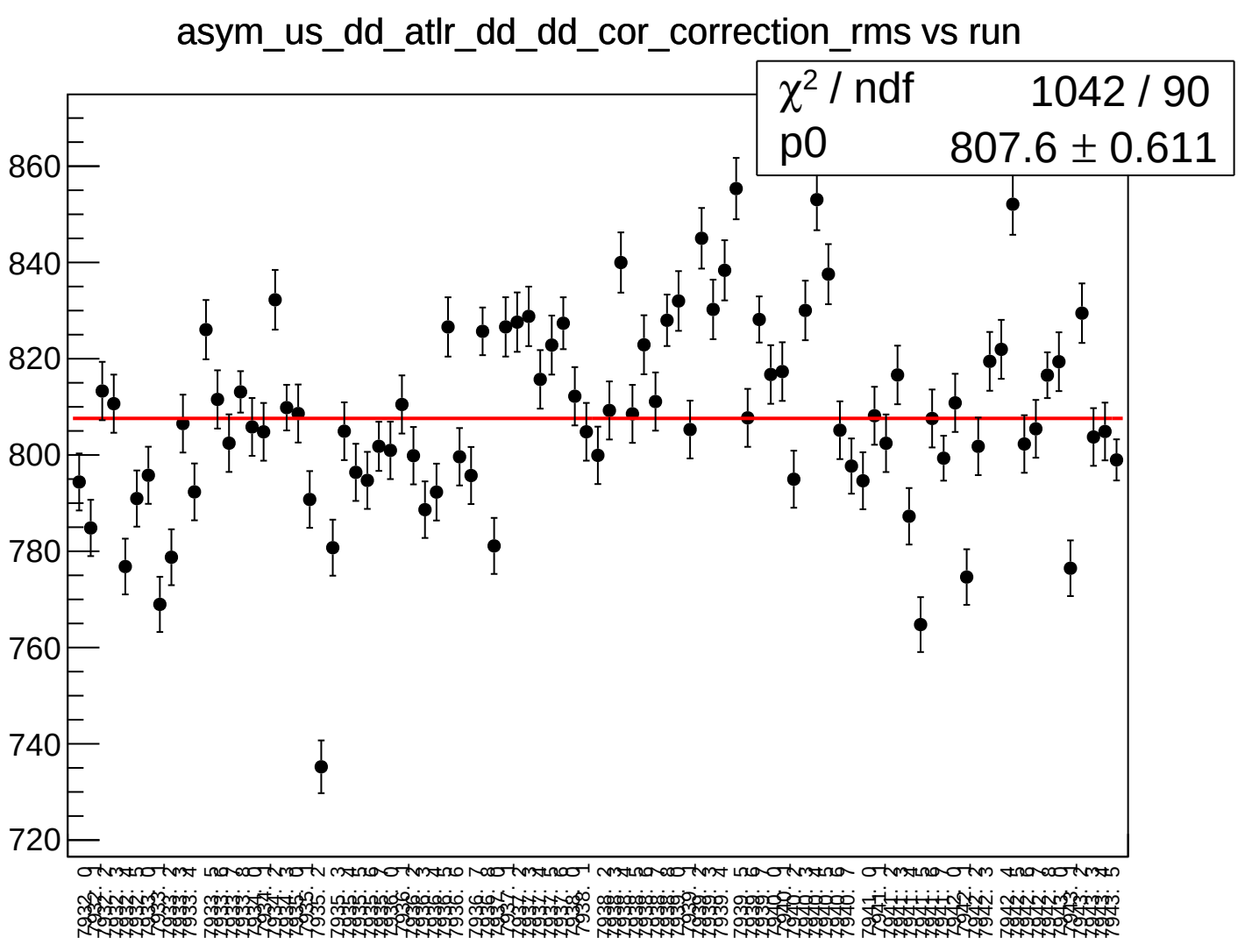

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1042 / 90
p0 807.6 ± 0.611
860
840
820
800
780
760
740
720

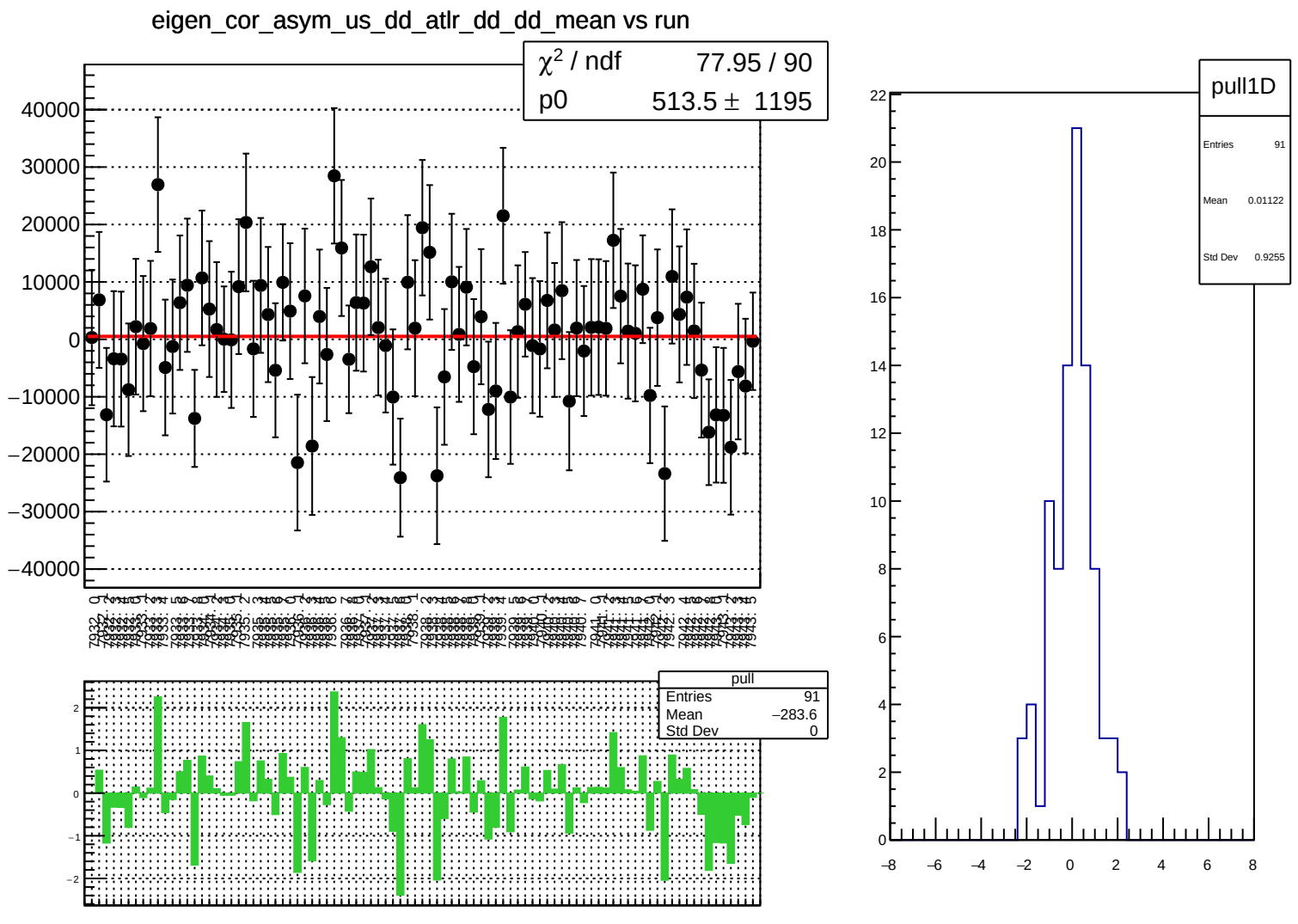

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 77.95 / 90
p0 513.5 ± 1195
pull
Entries 91
Mean −283.6
Std Dev 0
pull1D
Entries 91
Mean 0.01122
Std Dev 0.9255

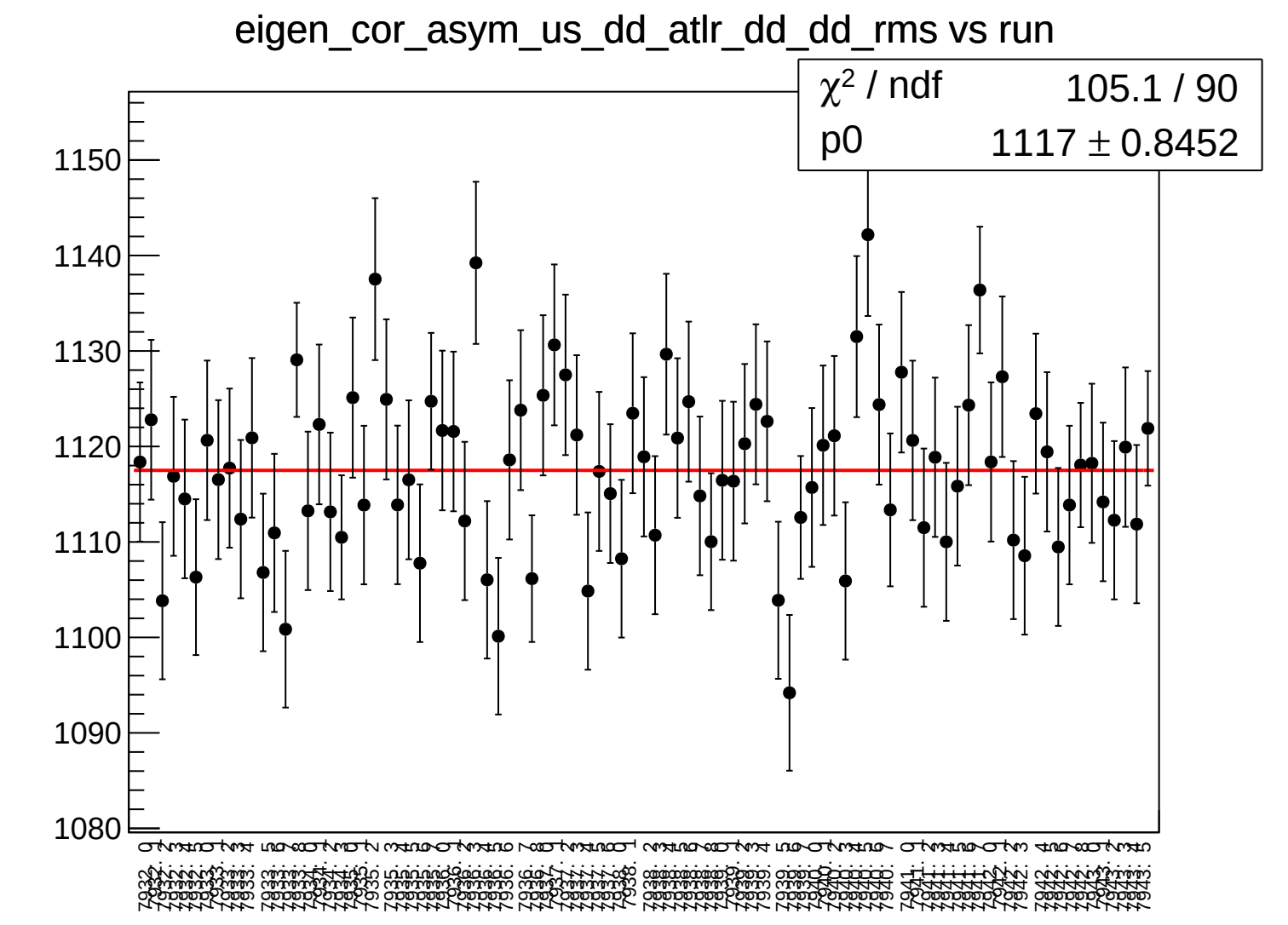

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 105.1 / 90
p0 1117 ± 0.8452
1150
1140
1130
1120
1110
1100
1090
1080

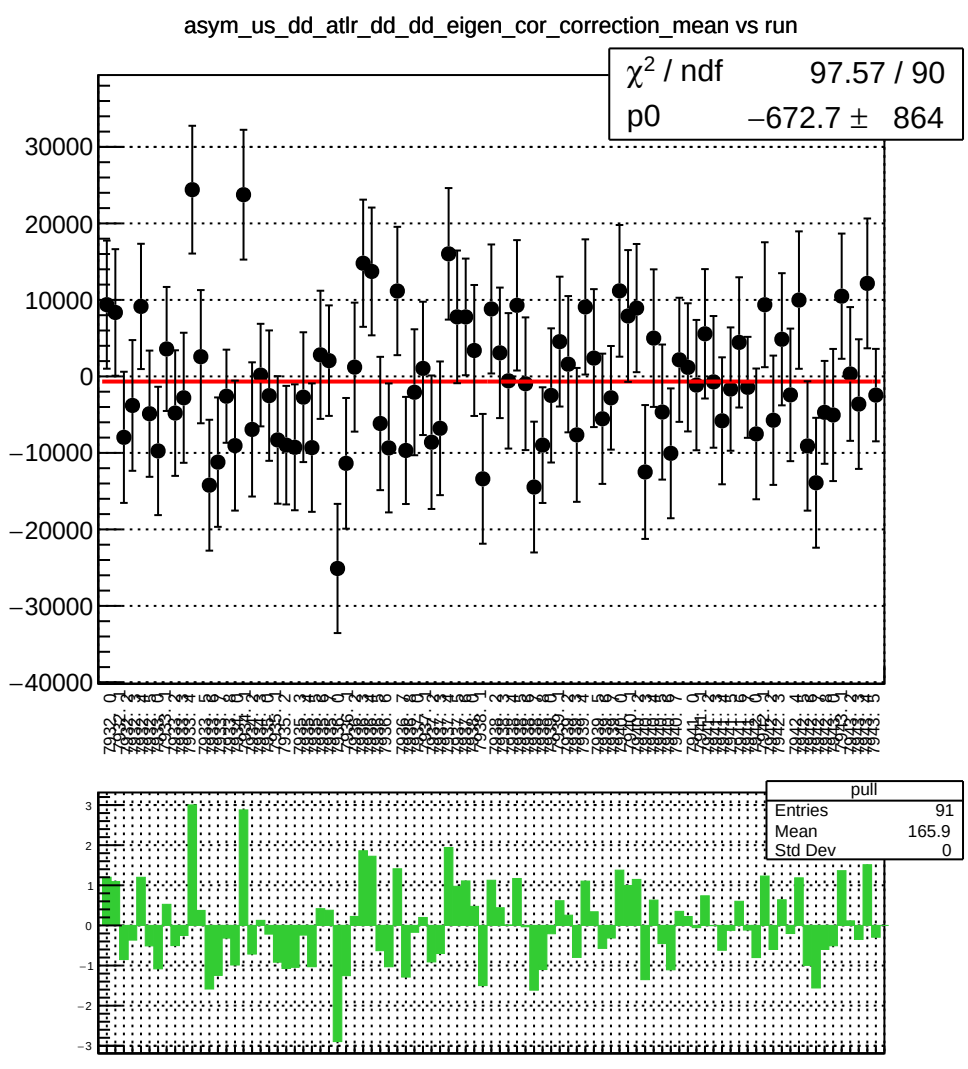

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 97.57 / 90
p0 −672.7 ± 864
pull
Entries 91
Mean 165.9
Std Dev 0

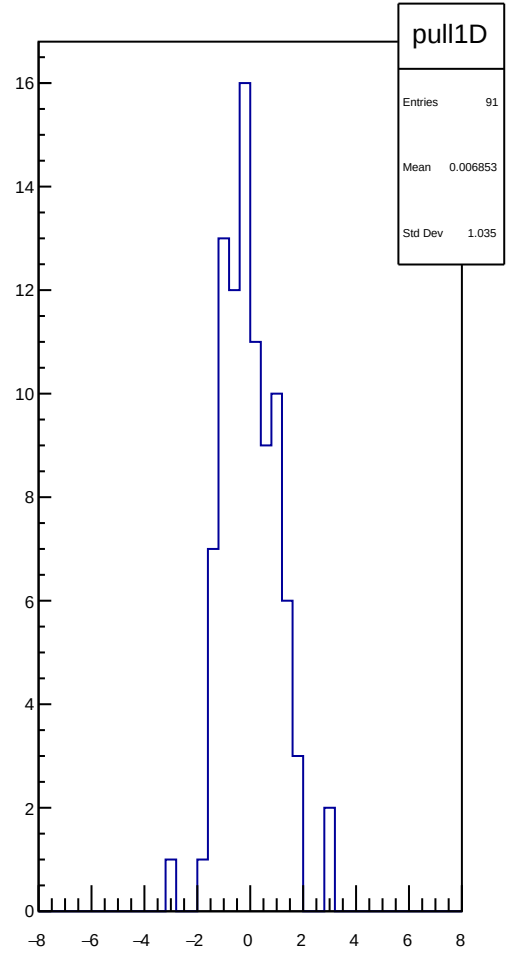

pull1D
Entries 91
Mean 0.006853
Std Dev 1.035

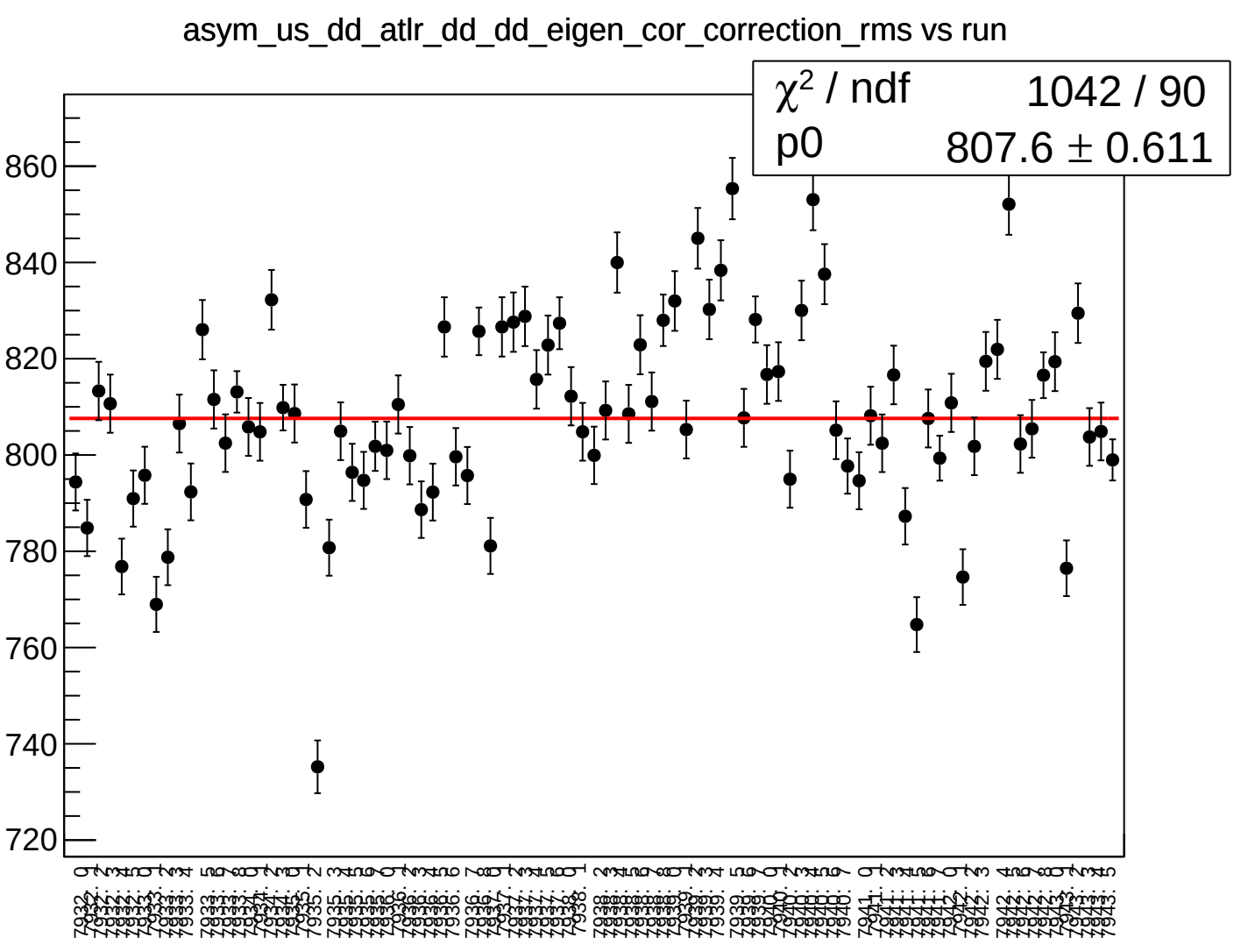

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1042 / 90
p0 807.6 ± 0.611
860
840
820
800
780
760
740
720

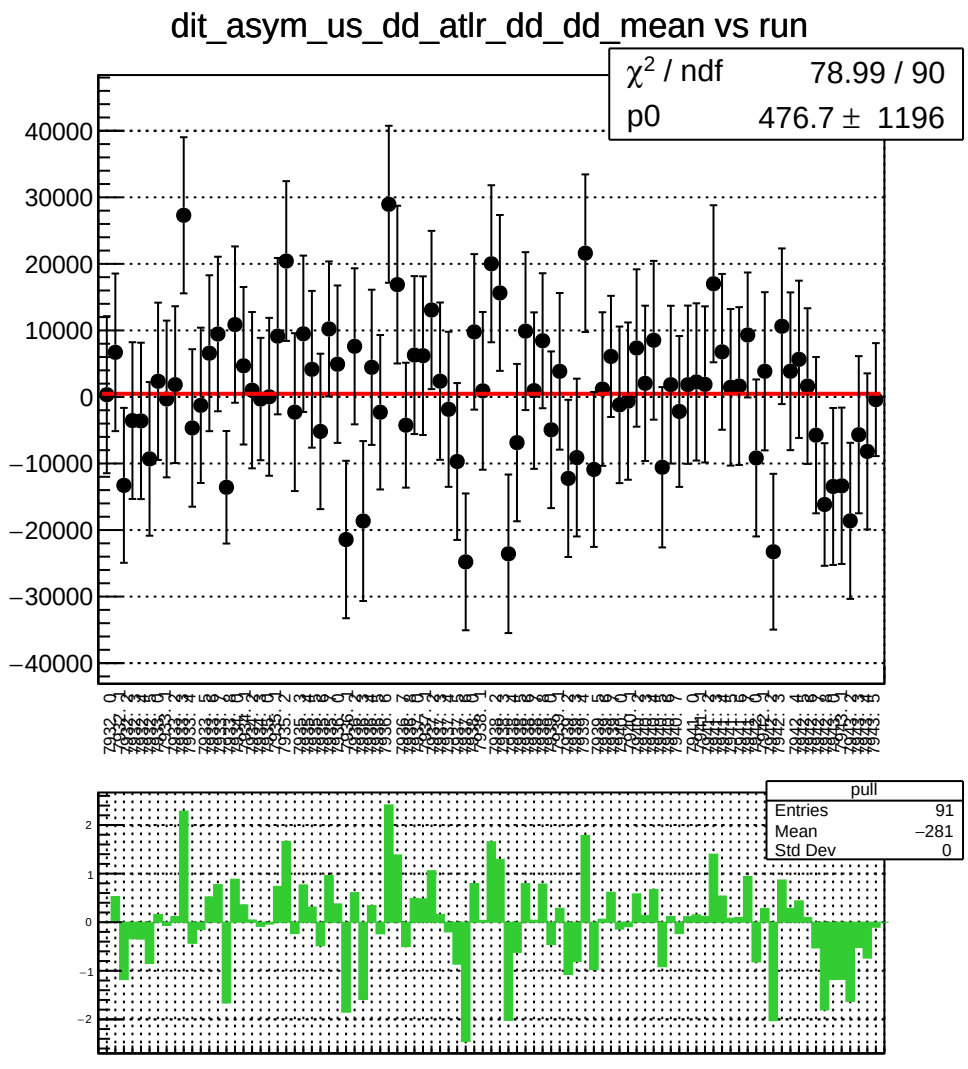

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 77.95 / 90
p0 513.5 ± 1195
pull
Entries 91
Mean −283.6
Std Dev 0
pull1D
Entries 91
Mean 0.01122
Std Dev 0.9255

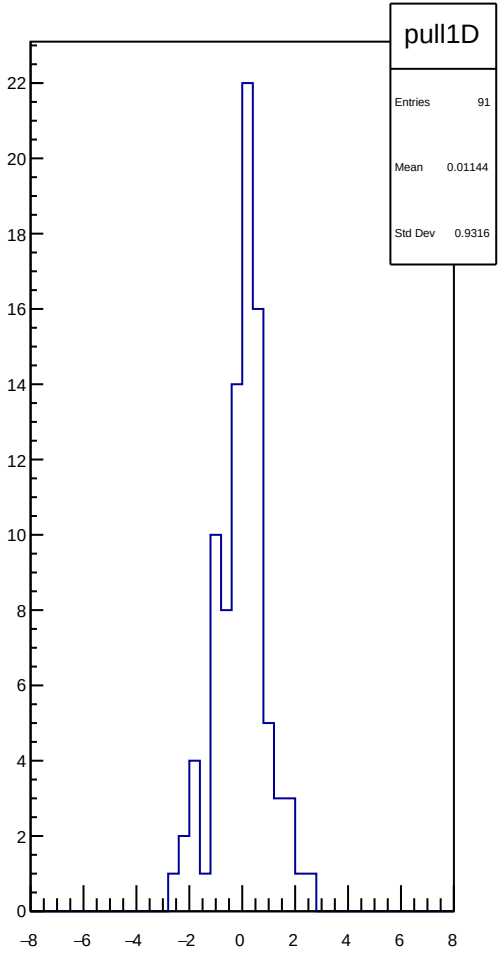

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 105.1 / 90
p0 1117 ± 0.8452
1150
1140
1130
1120
1110
1100
1090
1080

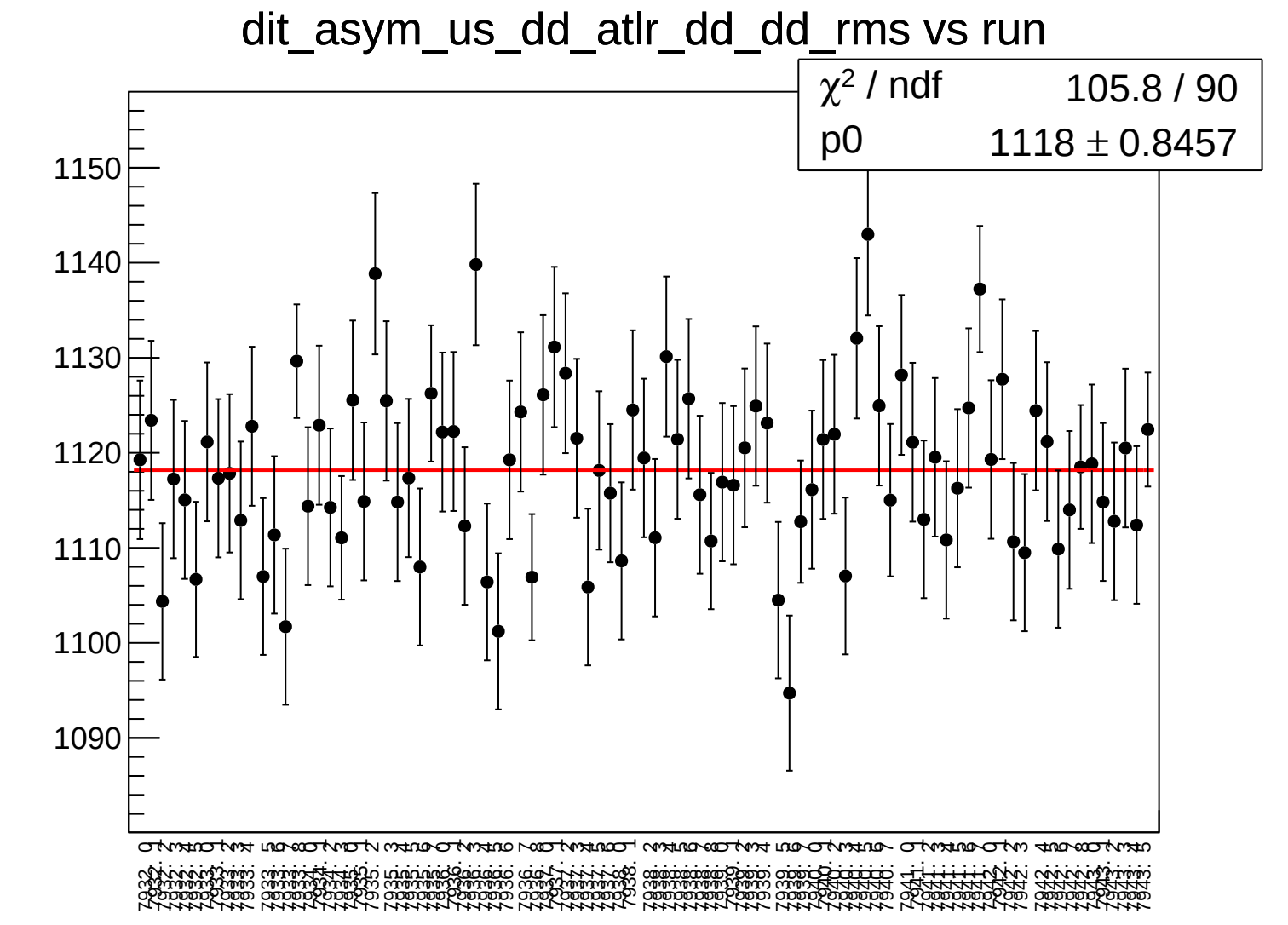

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.57 / 90
p0 −672.7 ± 864
pull
Entries 91
Mean 165.9
Std Dev 0

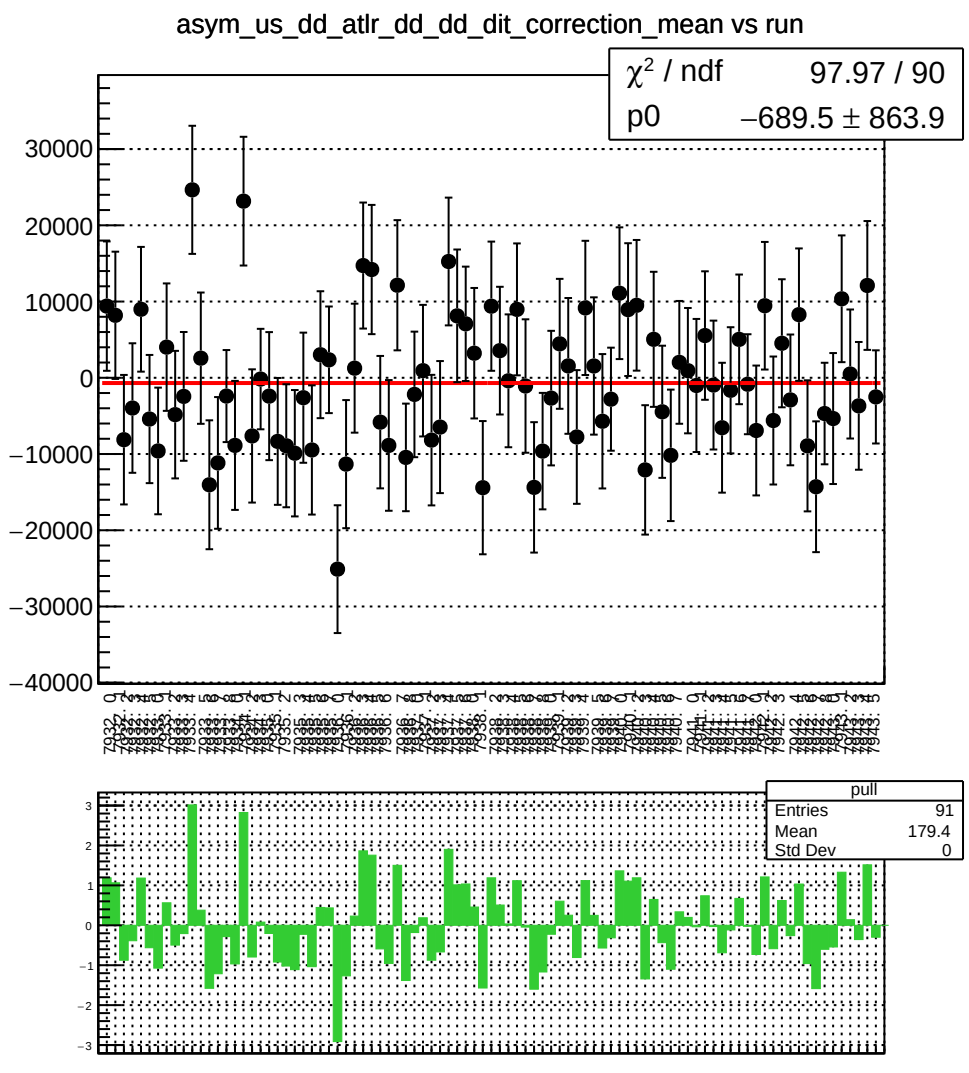

pull1D
Entries 91
Mean 0.006853
Std Dev 1.035

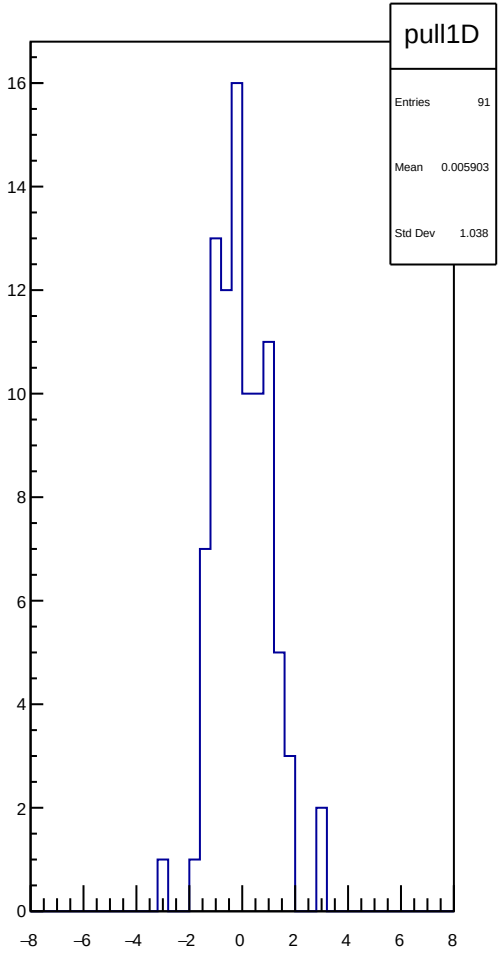

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1042 / 90
p0 807.6 ± 0.611
860
840
820
800
780
760
740
720

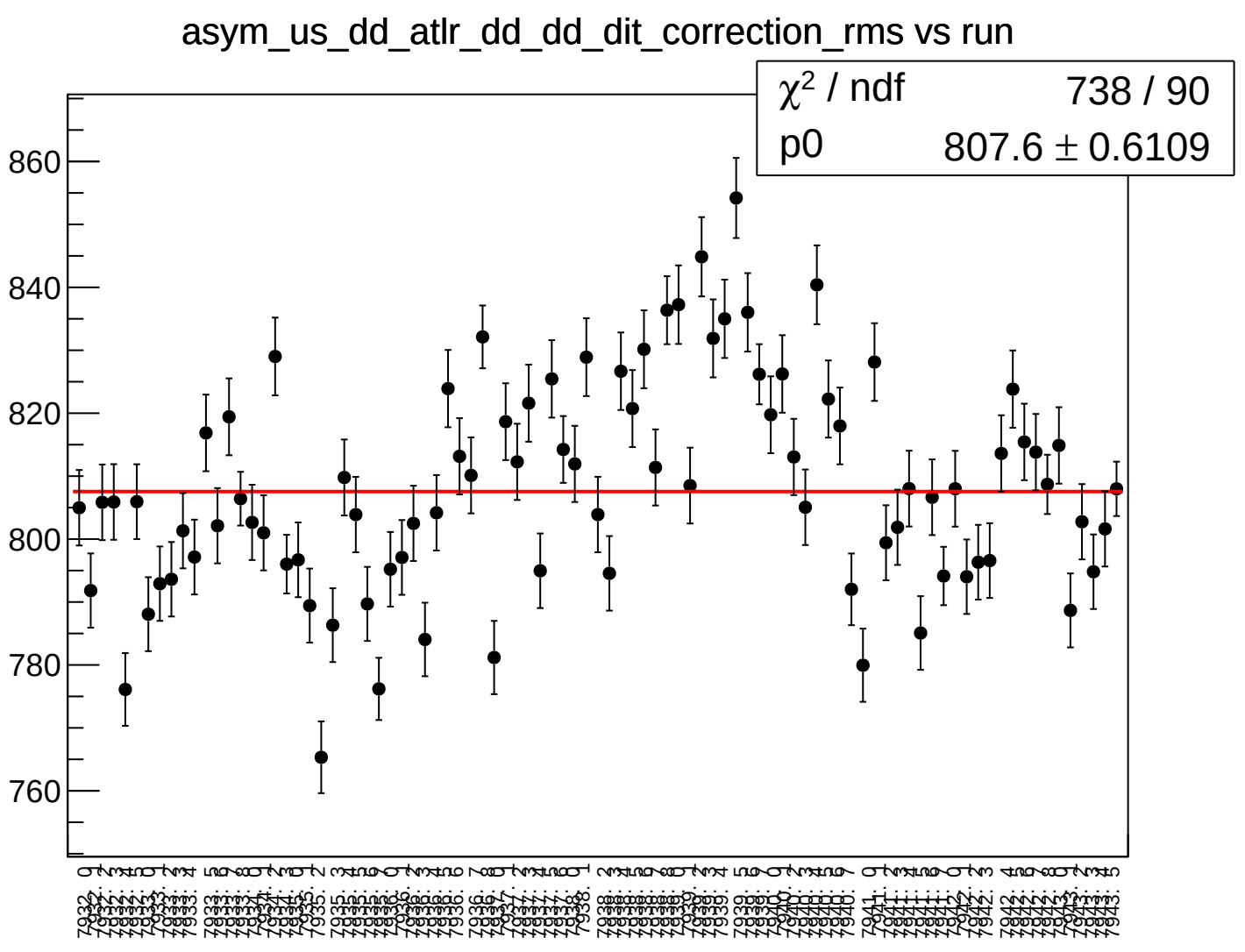

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.99 / 90
p0 476.7 ± 1196
pull
Entries 91
Mean −281
Std Dev 0

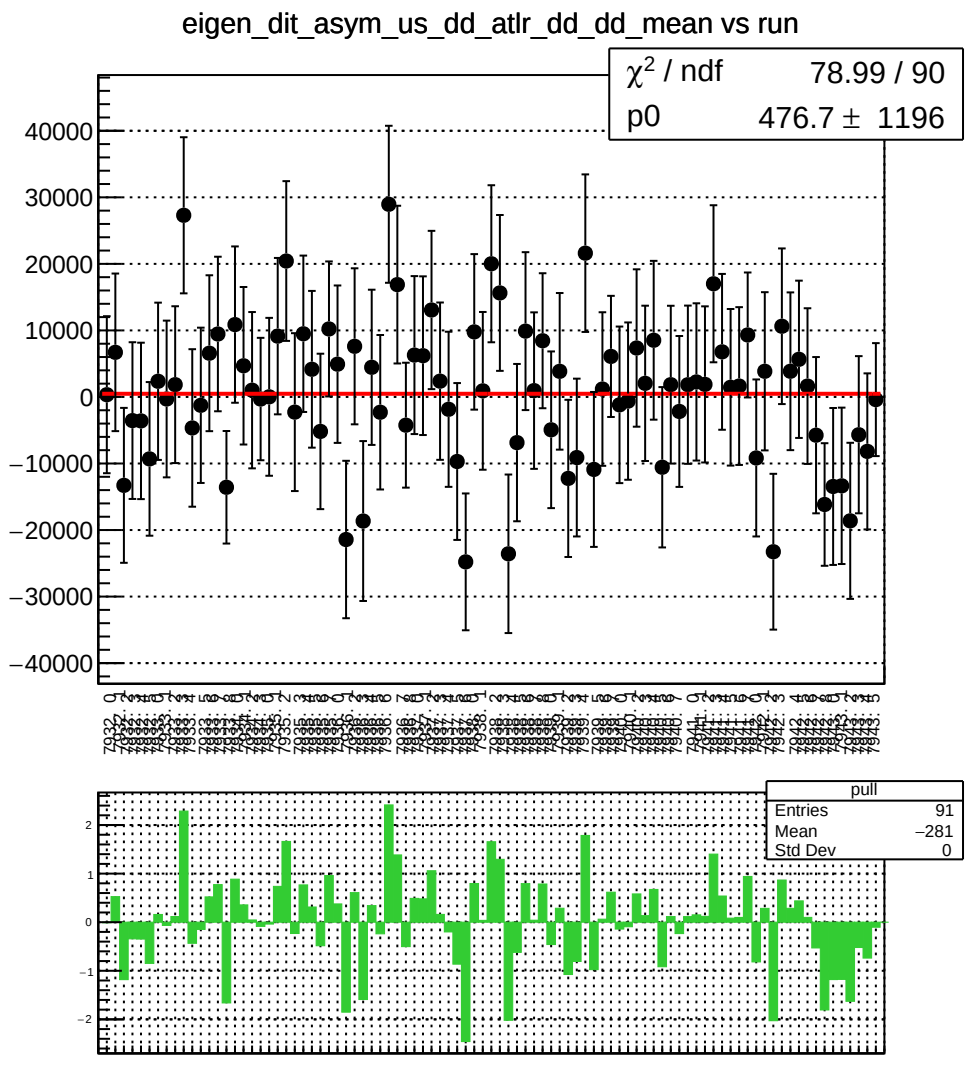

pull1D
Entries 91
Mean 0.01144
Std Dev 0.9316

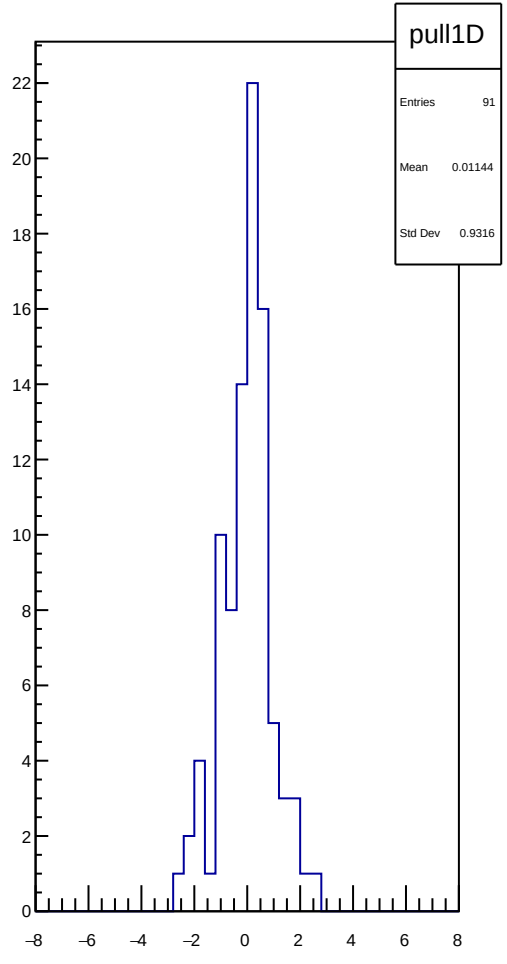

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 105.8 / 90
p0 1118 ± 0.8457
1150
1140
1130
1120
1110
1100
1090

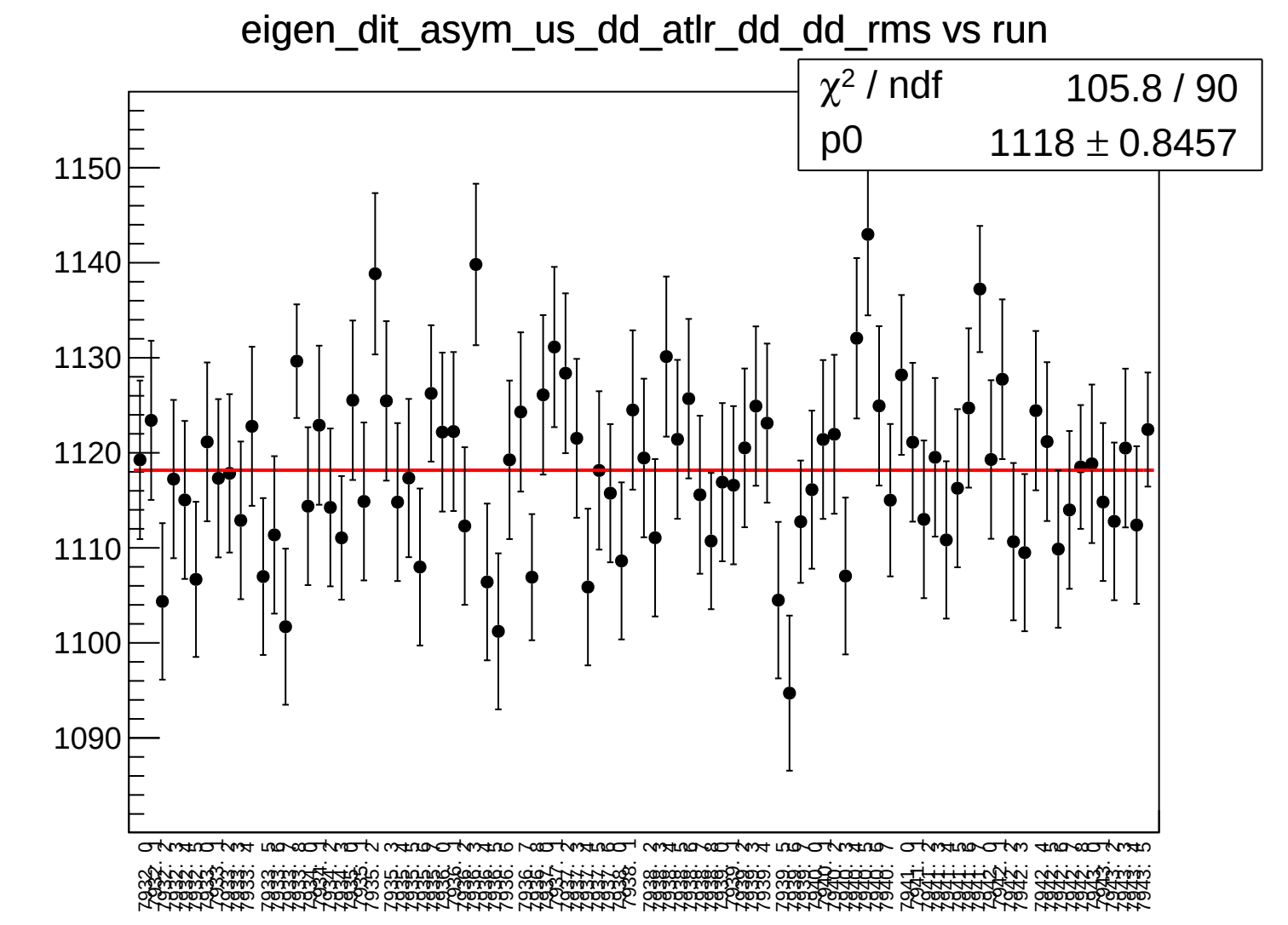

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 97.97 / 90
p0 −689.5 ± 863.9
pull
Entries 91
Mean 179.4
Std Dev 0

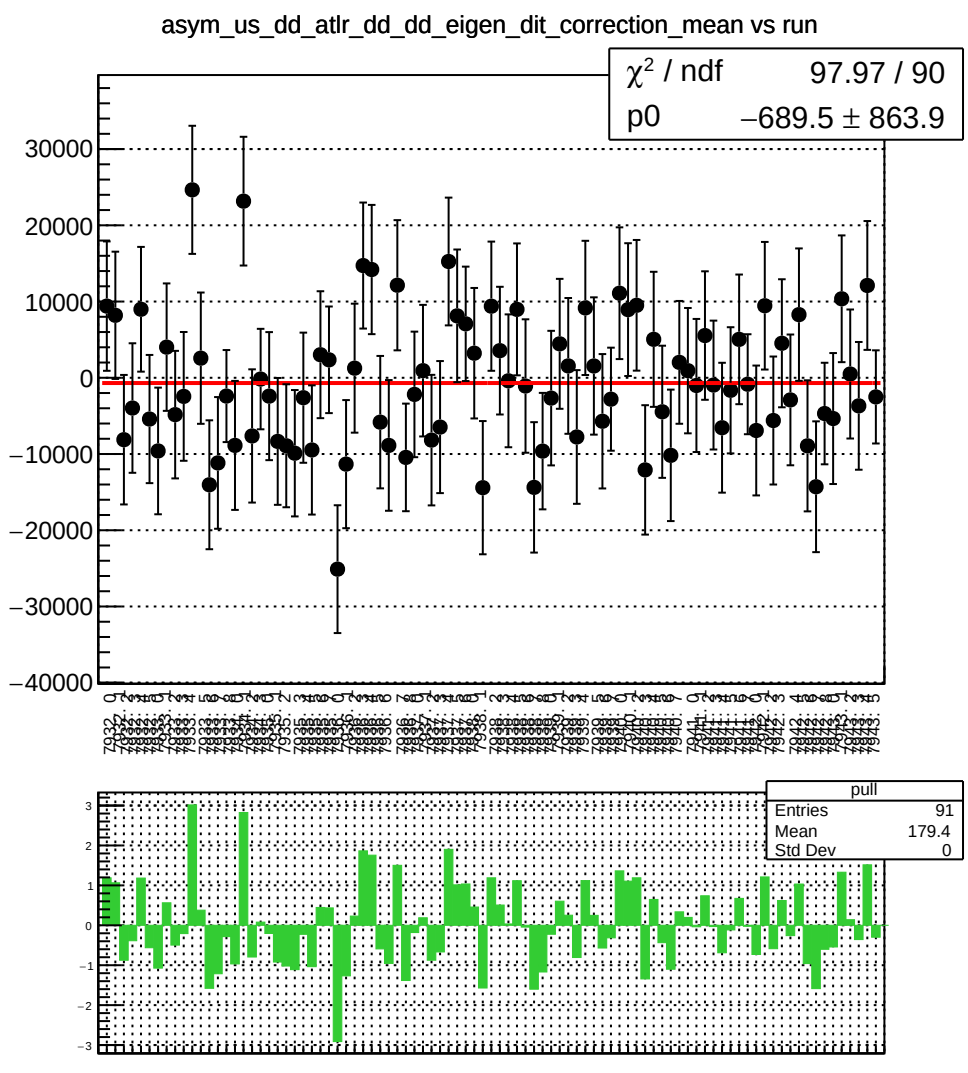

pull1D
Entries 91
Mean 0.005903
Std Dev 1.038

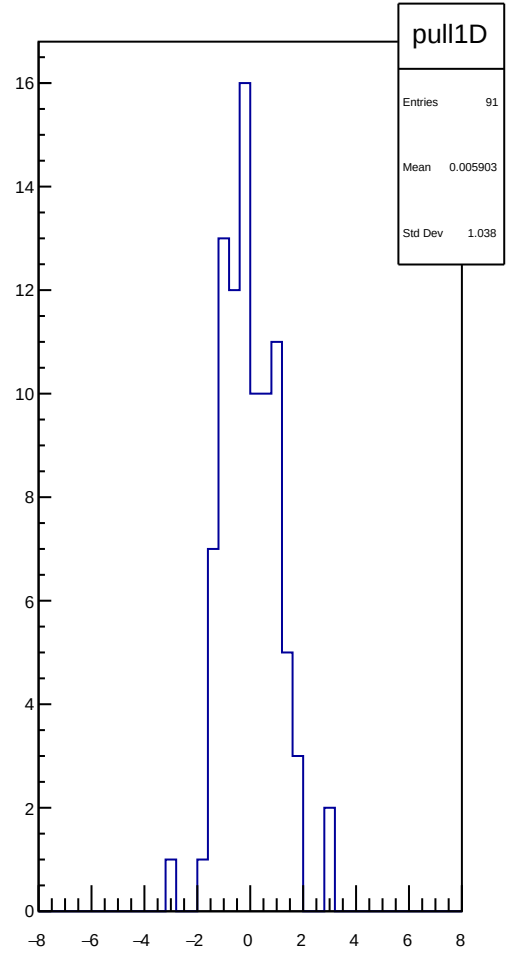

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 738 / 90
p0 807.6 ± 0.6109
860
840
820
800
780
760

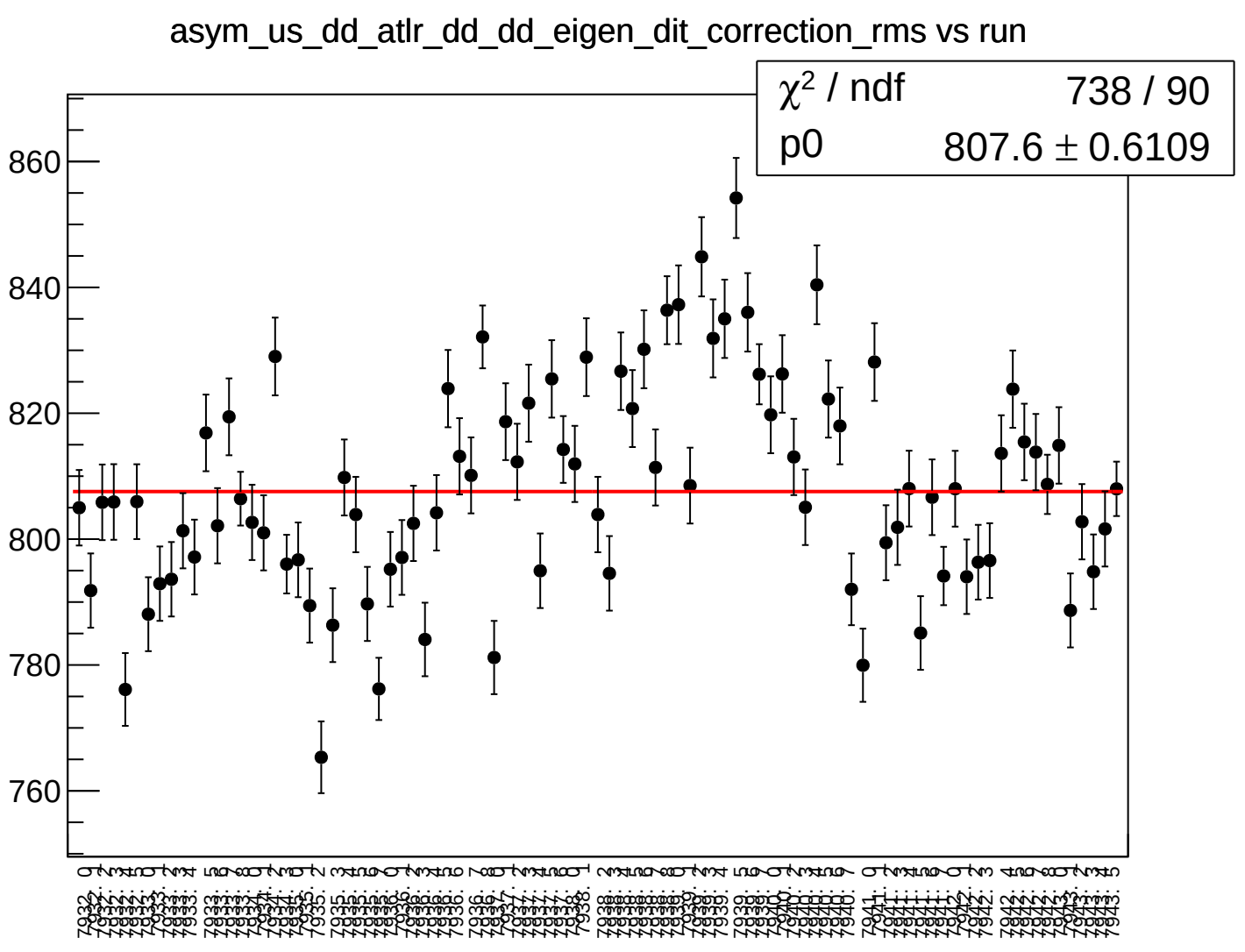

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.99 / 90
p0 476.7 ± 1196
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −281
Std Dev 0
2
1
0
−1
−2

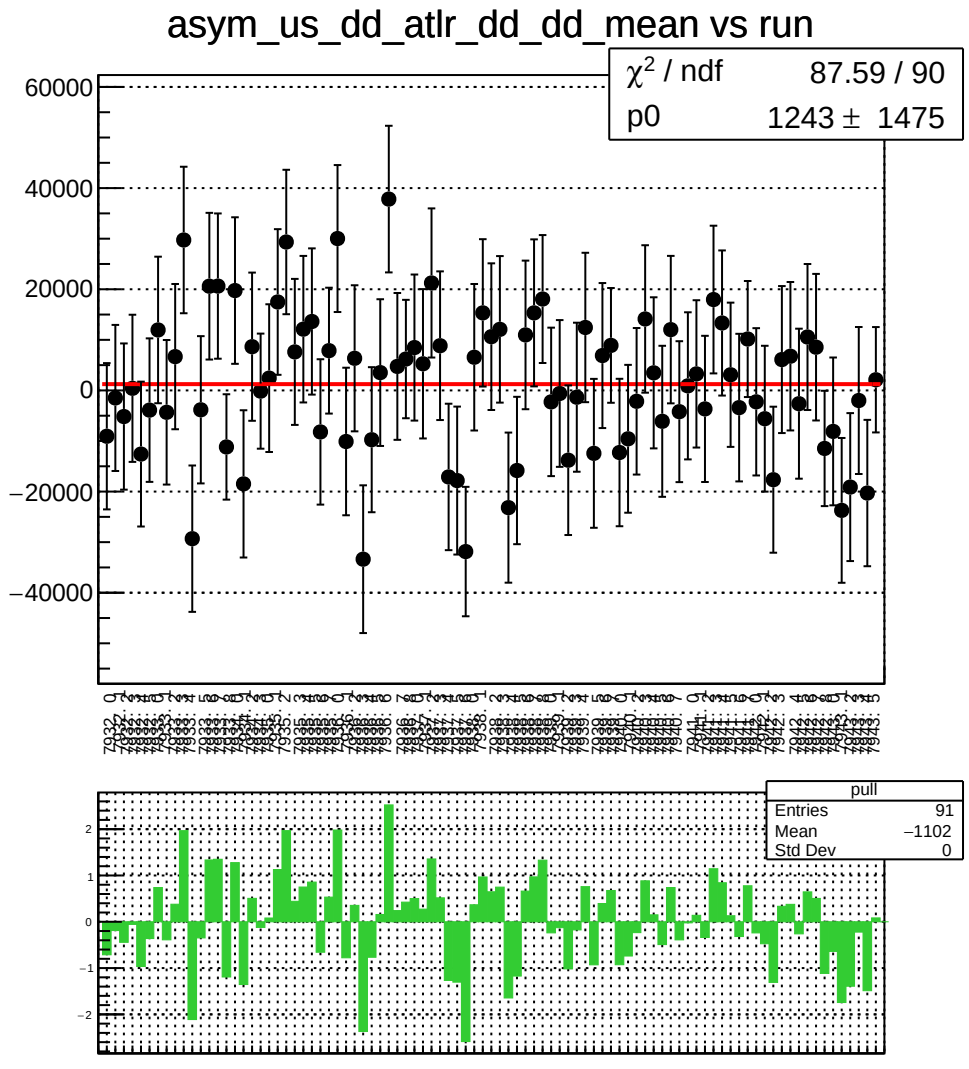

pull1D
Entries 91
Mean 0.01144
Std Dev 0.9316
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

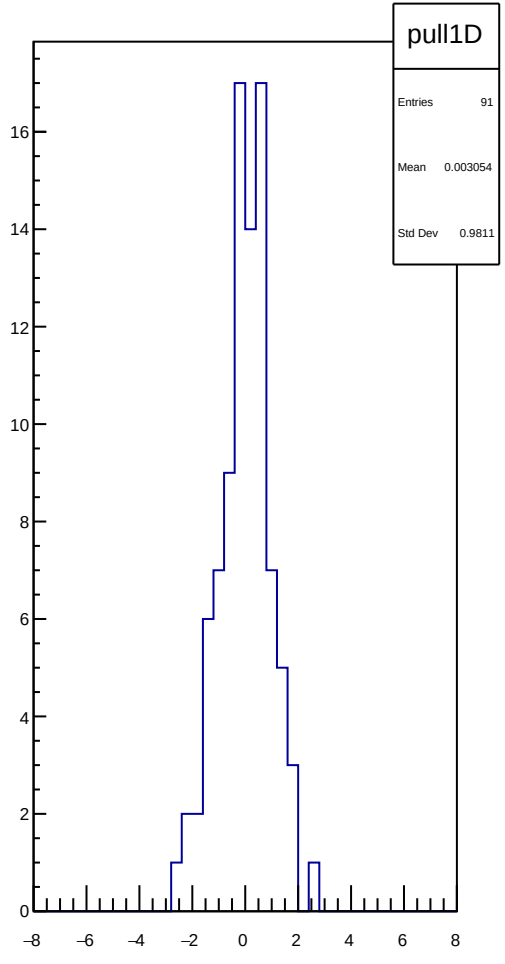

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 105.8 / 90
p0 1118 ± 0.8457
1150
1140
1130
1120
1110
1100
1090

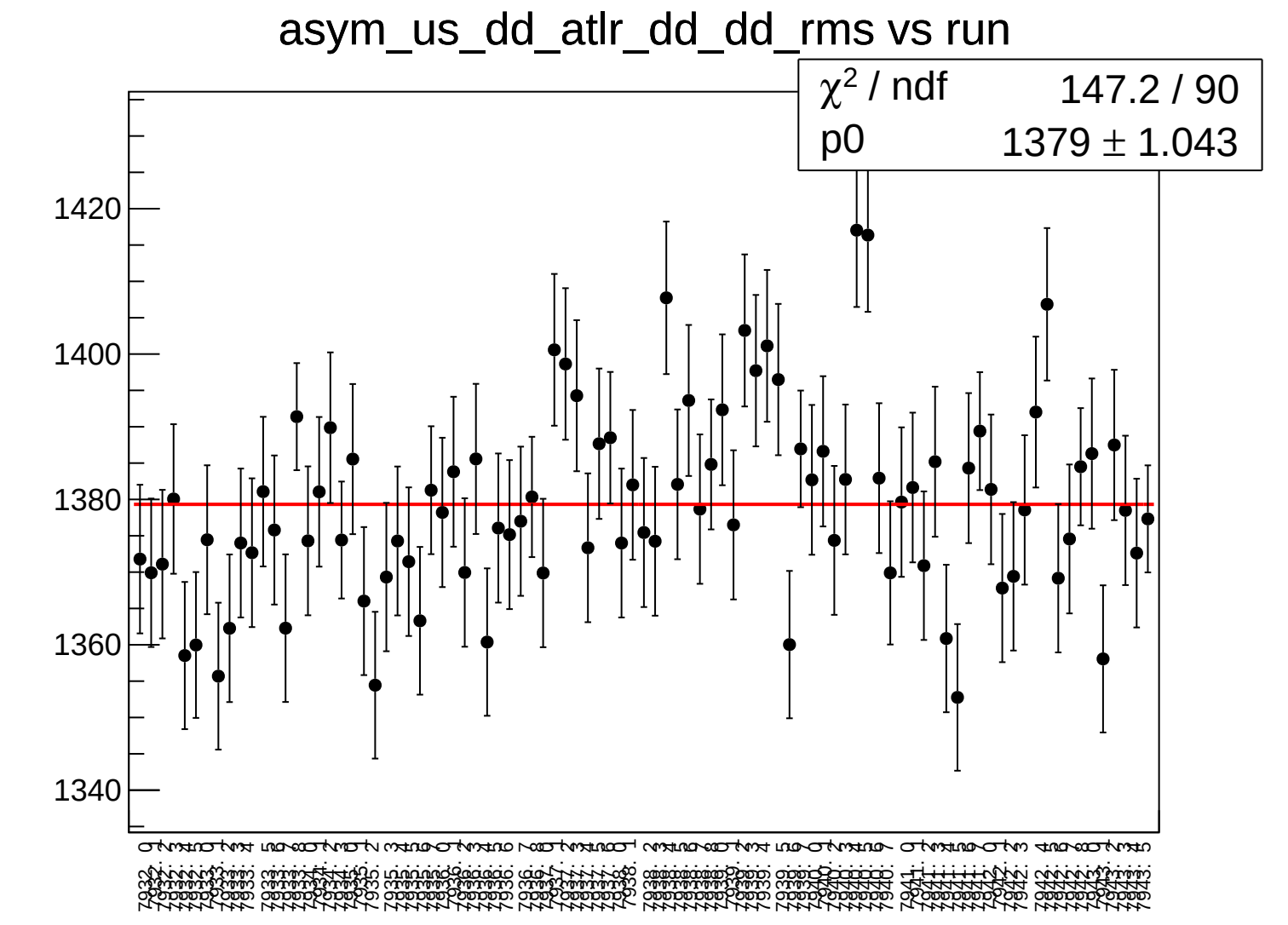

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.97 / 90
p0 −689.5 ± 863.9
pull
Entries 91
Mean 179.4
Std Dev 0

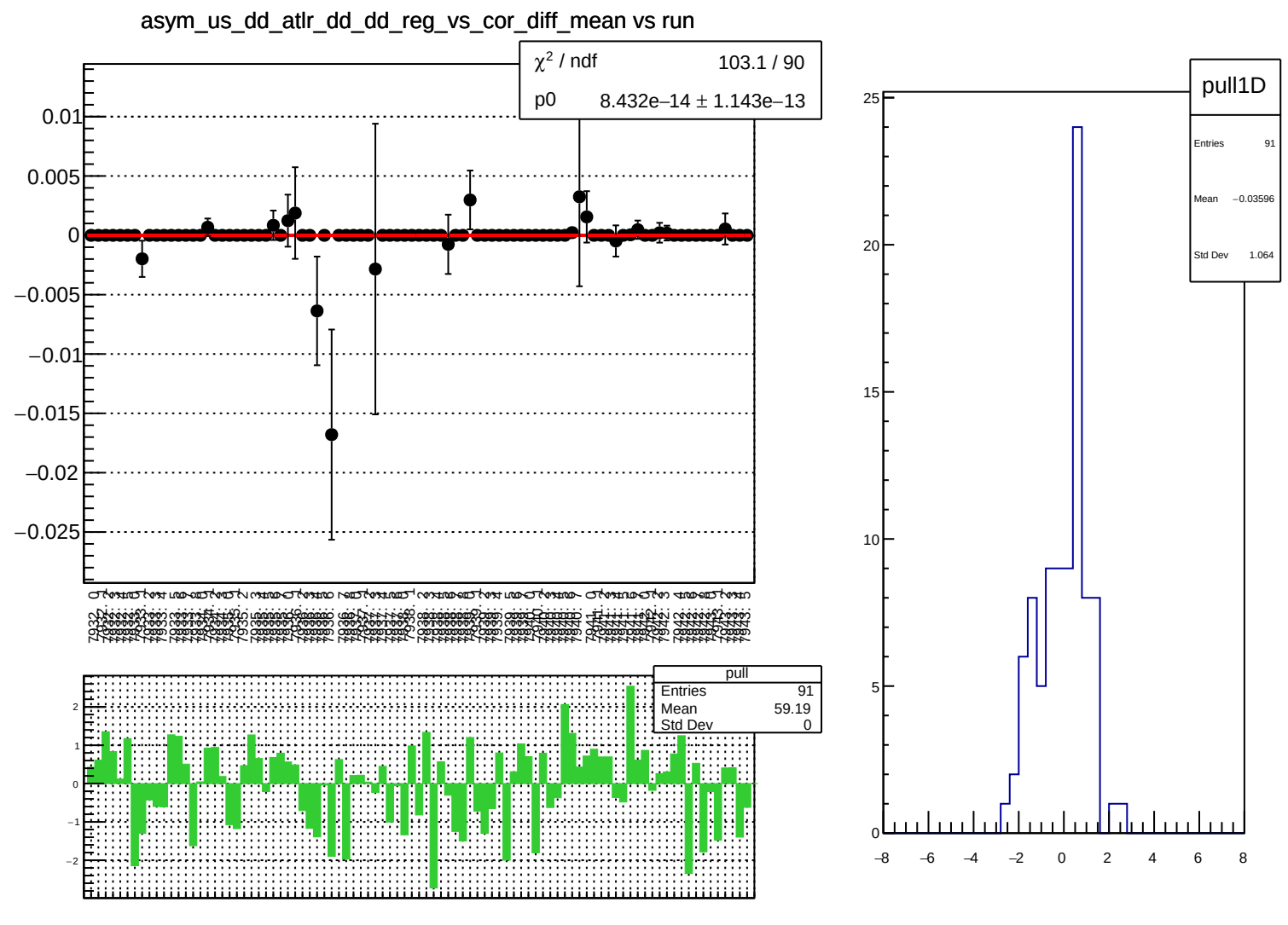

pull1D
Entries 91
Mean 0.005903
Std Dev 1.038

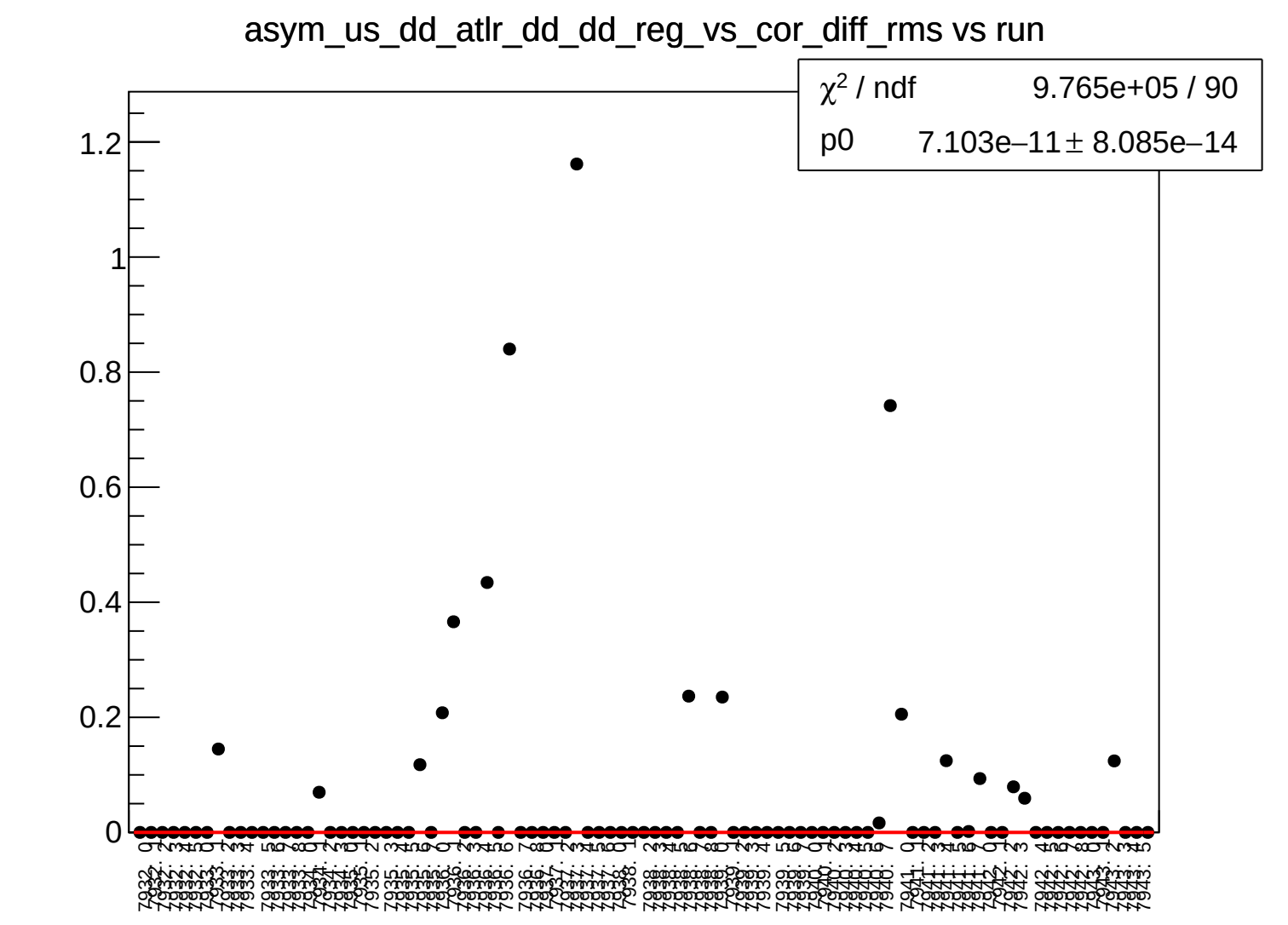

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 738 / 90
p0 807.6 ± 0.6109
860
840
820
800
780
760

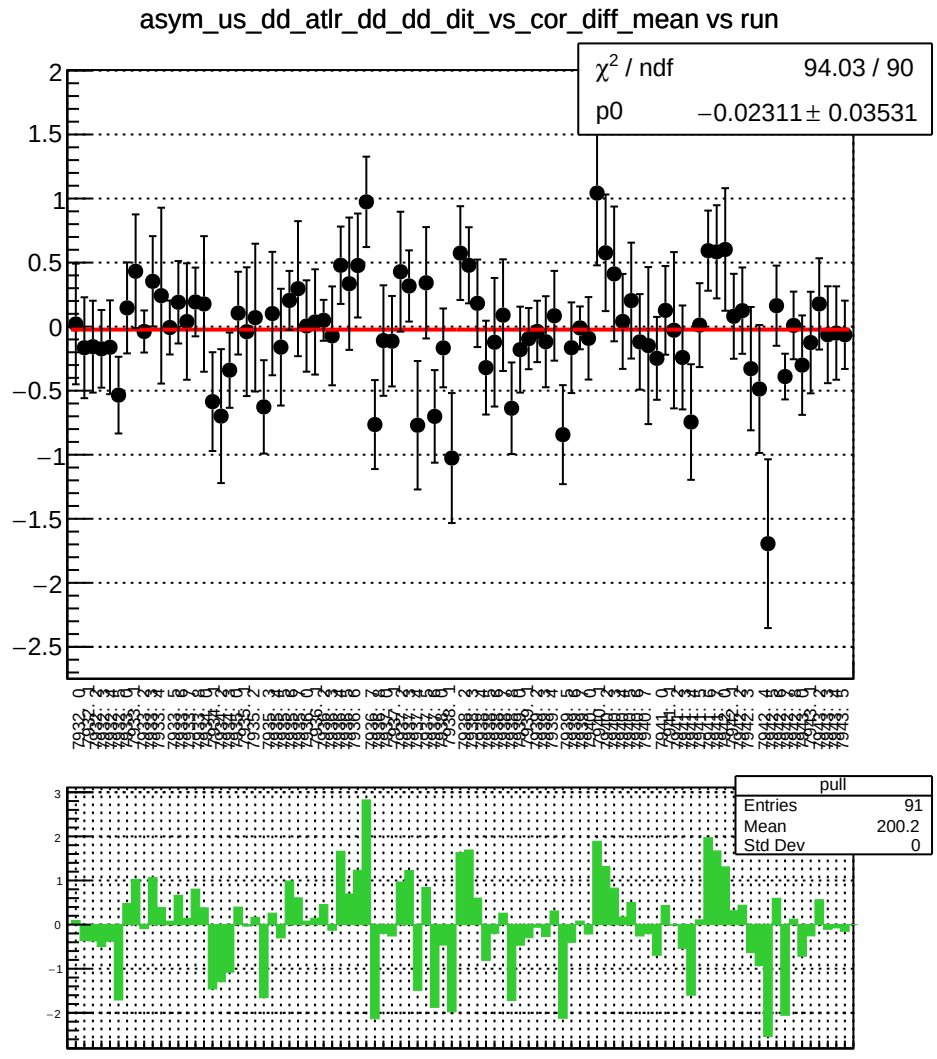

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.59 / 90
p0 1243 ± 1475
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −1102
Std Dev 0
2
1
0
−1
−2

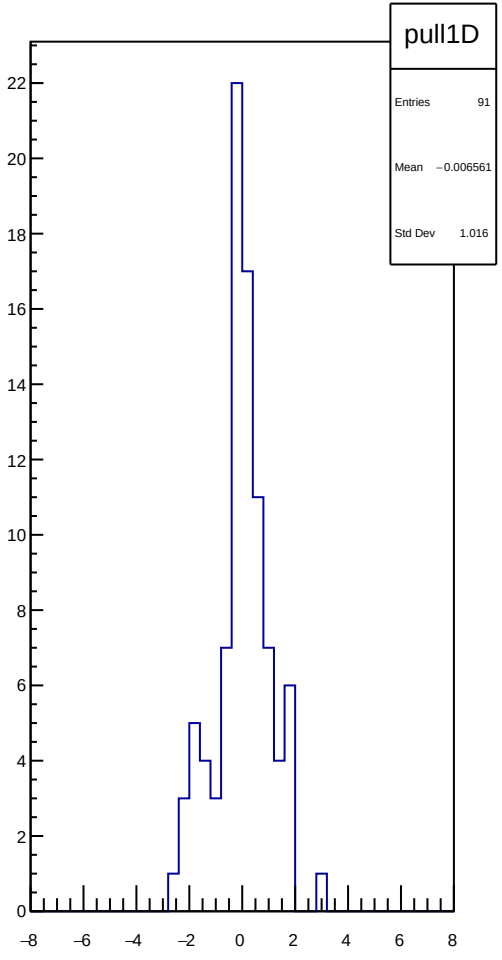

pull1D
Entries 91
Mean 0.003054
Std Dev 0.9811
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

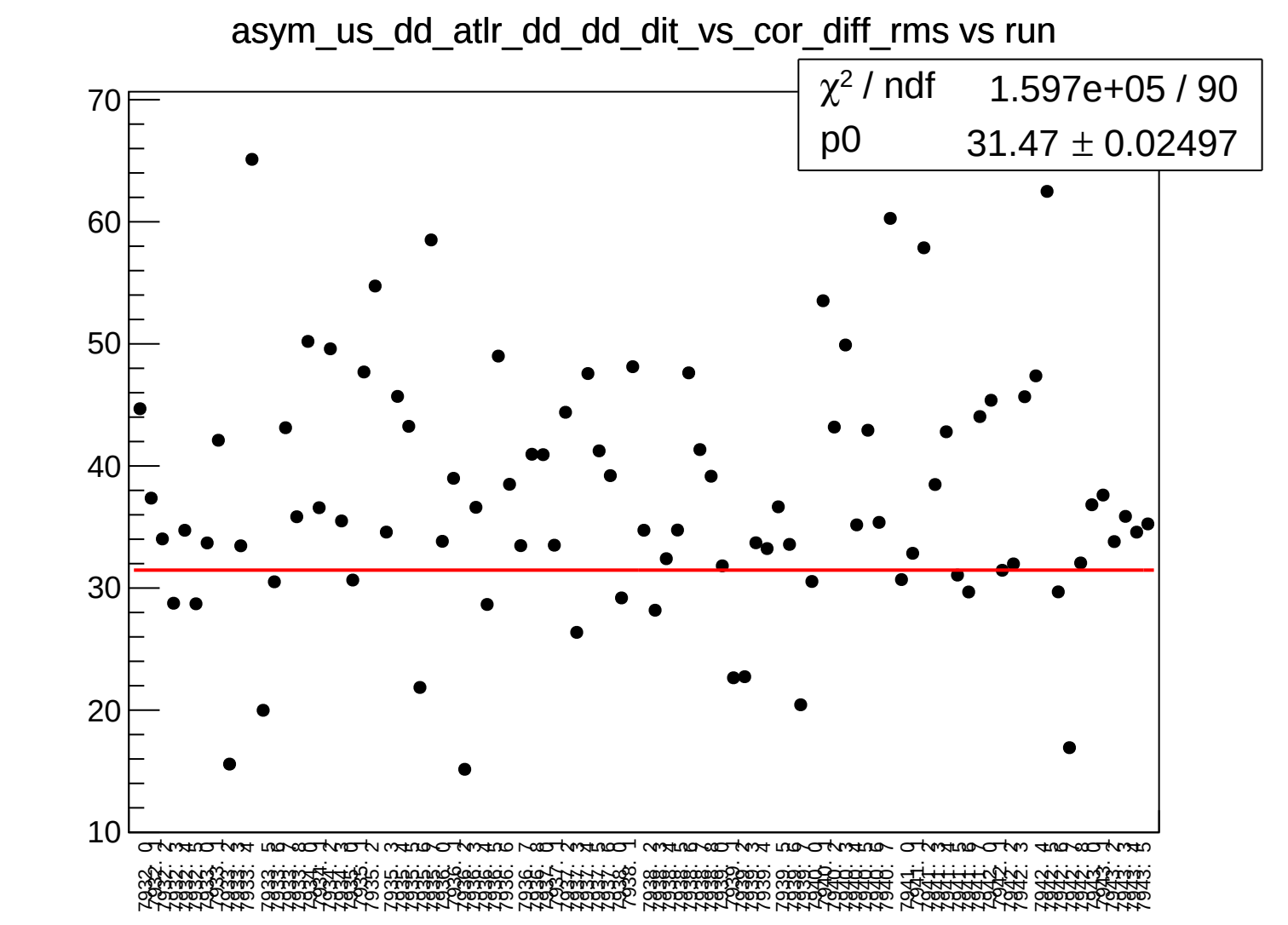

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 147.2 / 90
p0 1379 ± 1.043
1420
1400
1380
1360
1340

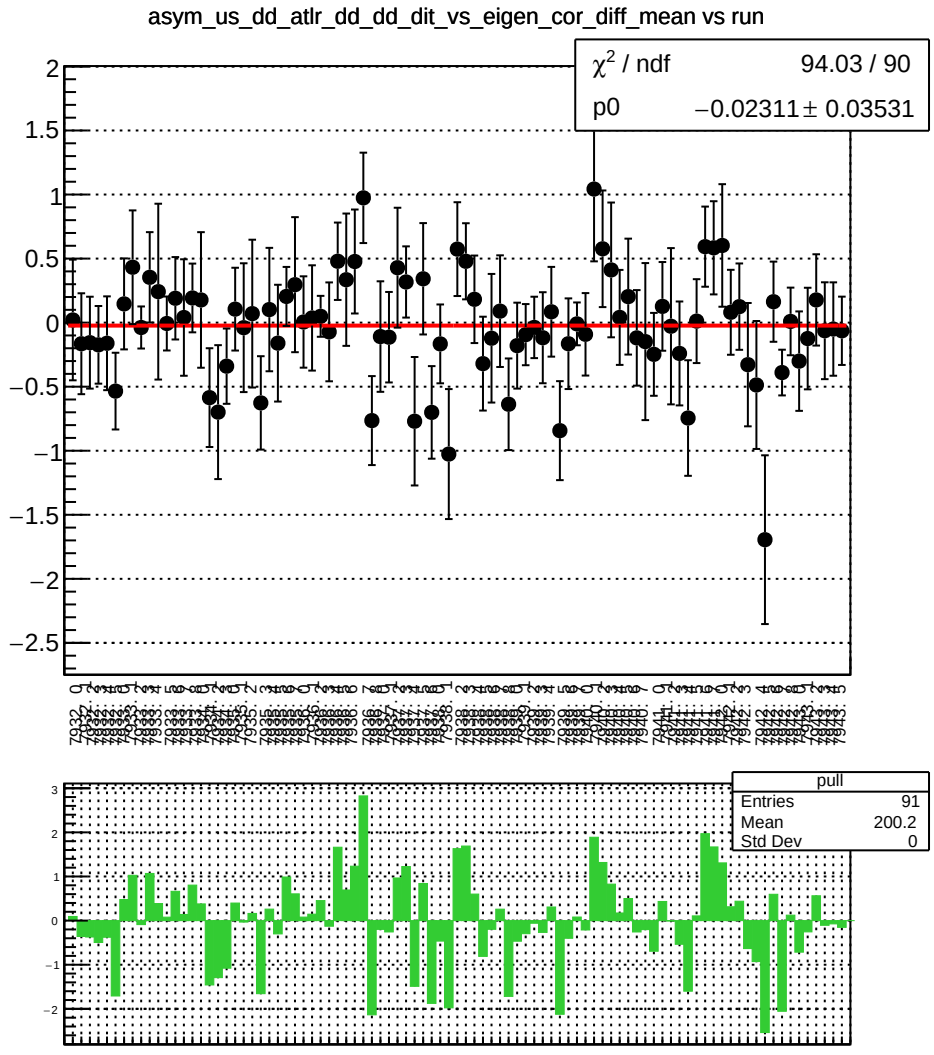

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 90
p0 8.432e−14 ± 1.143e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 91
Mean 59.19
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.03596
Std Dev 1.064
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

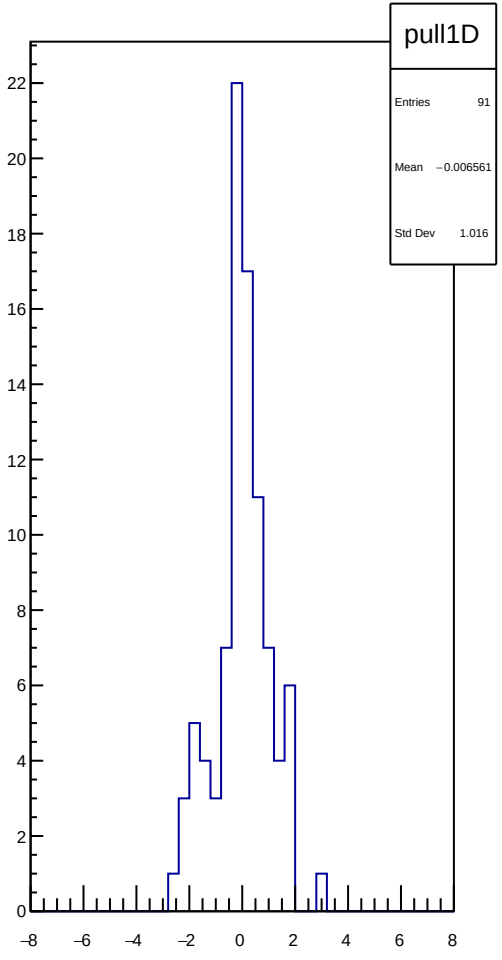

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.765e+05 / 90
p0 7.103e−11 ± 8.085e−14
1.2
1
0.8
0.6
0.4
0.2
0

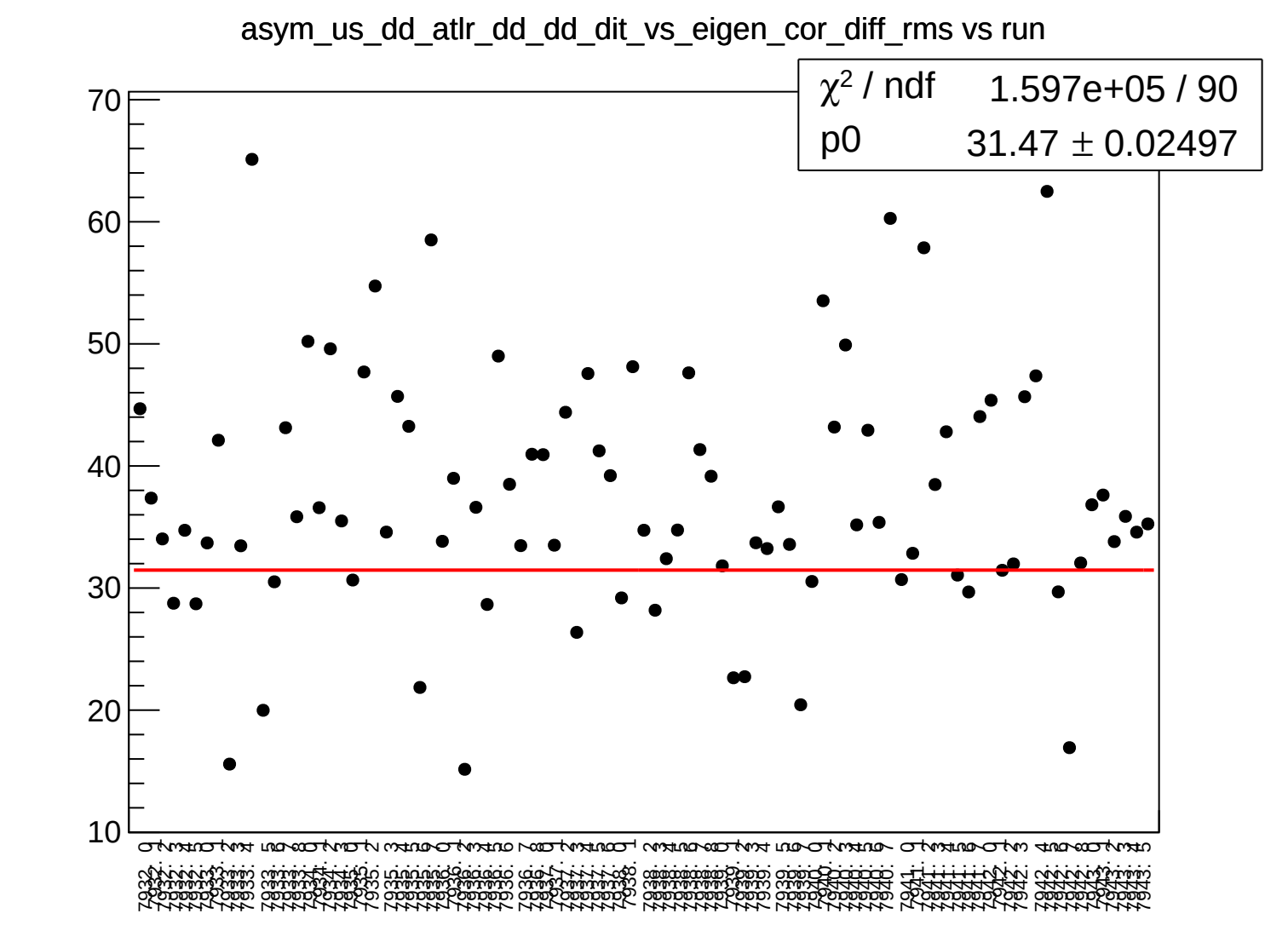

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 90
p0 −0.02311 ± 0.03531
pull
Entries 91
Mean 200.2
Std Dev 0

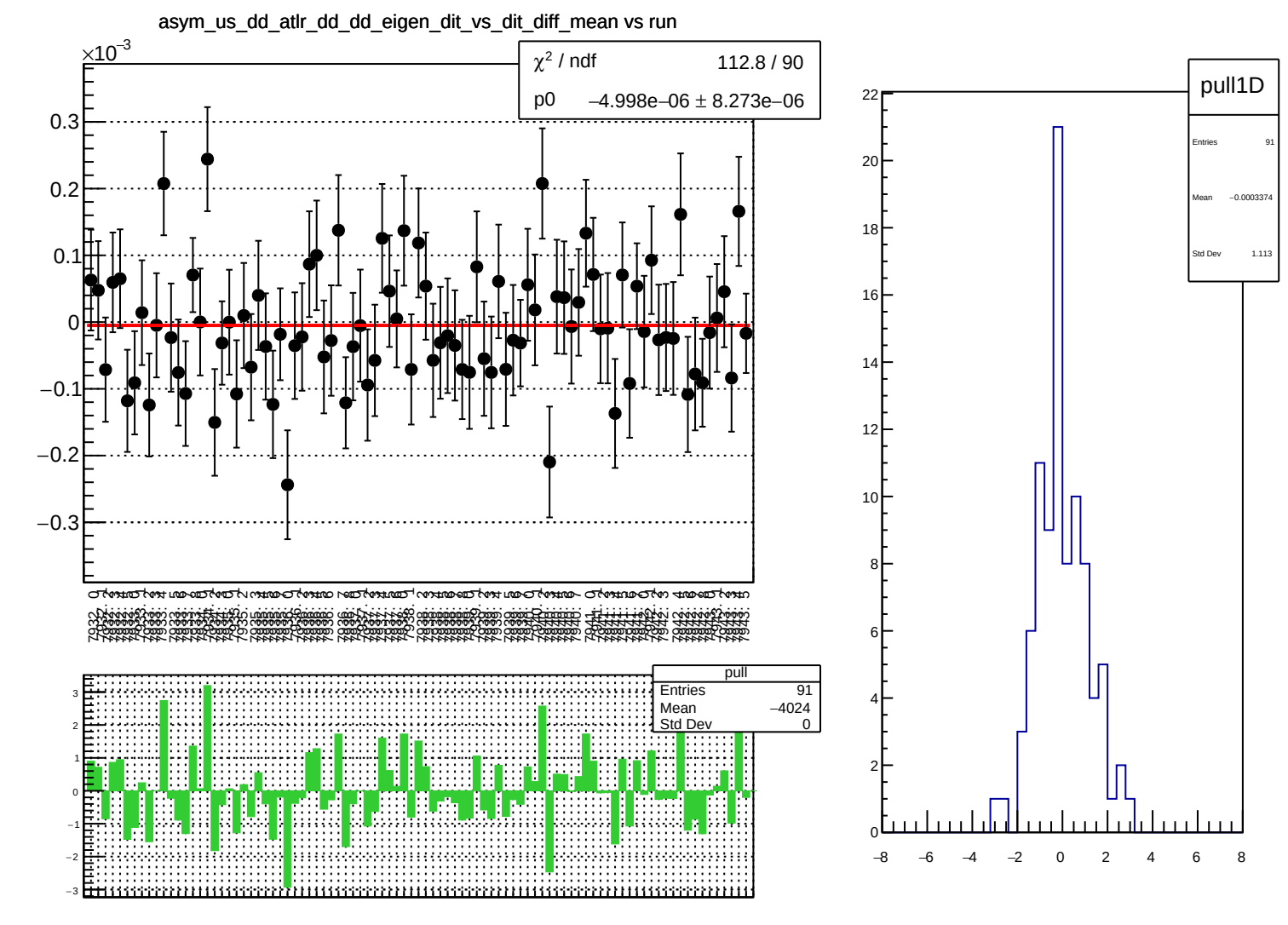

pull1D
Entries 91
Mean −0.006561
Std Dev 1.016

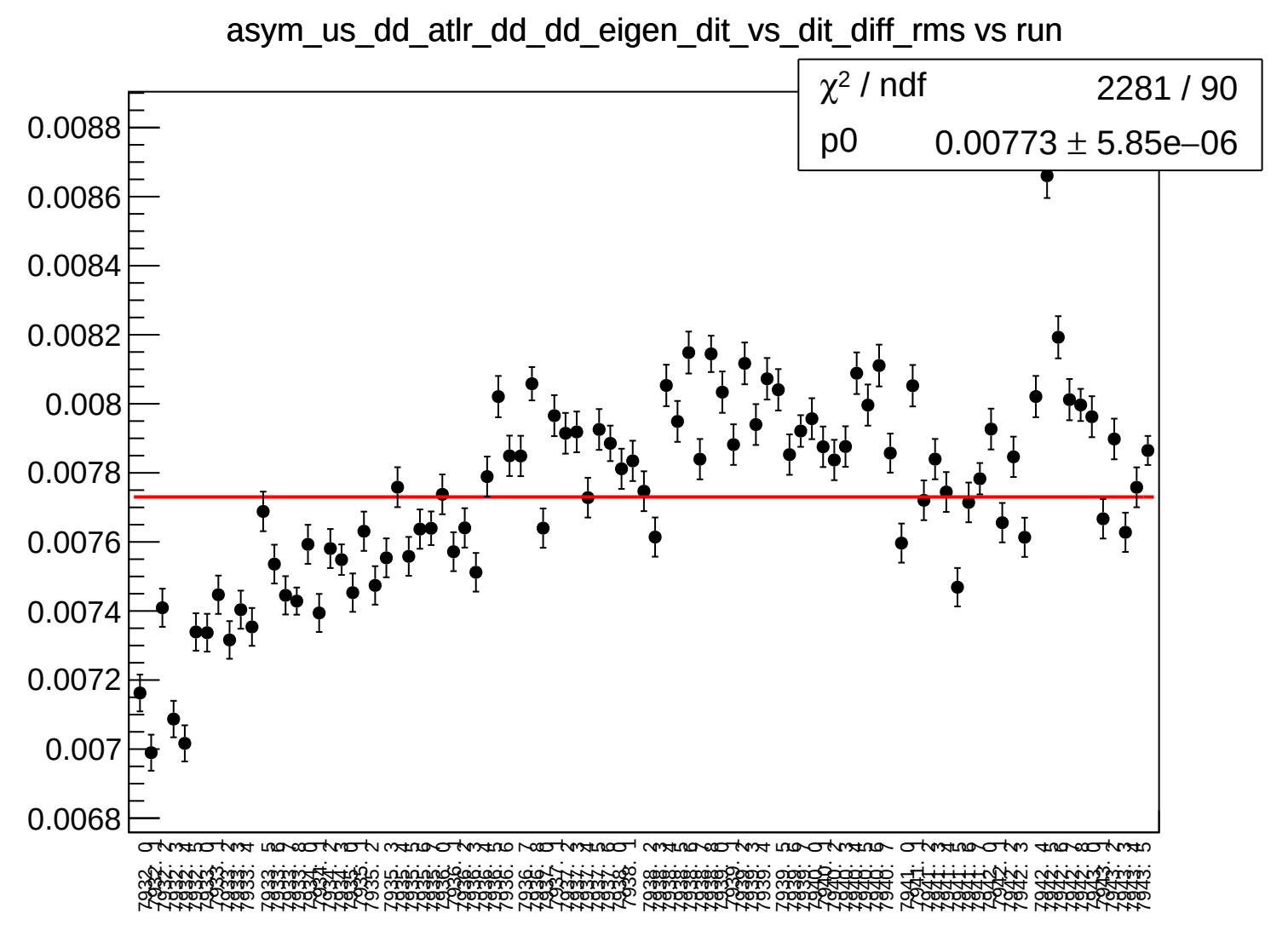

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 90
p0 31.47 ± 0.02497
70
60
50
40
30
20
10

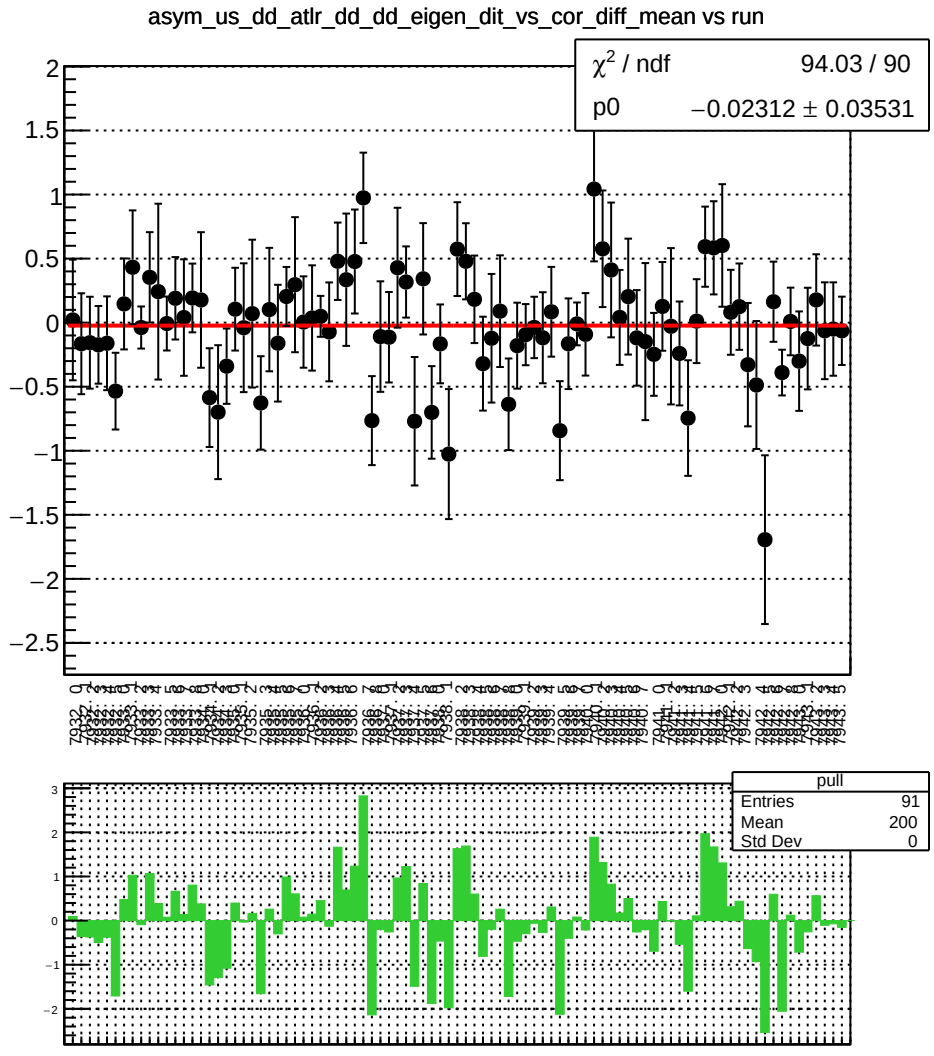

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.03 / 90
p0 −0.02311 ± 0.03531
pull
Entries 91
Mean 200.2
Std Dev 0

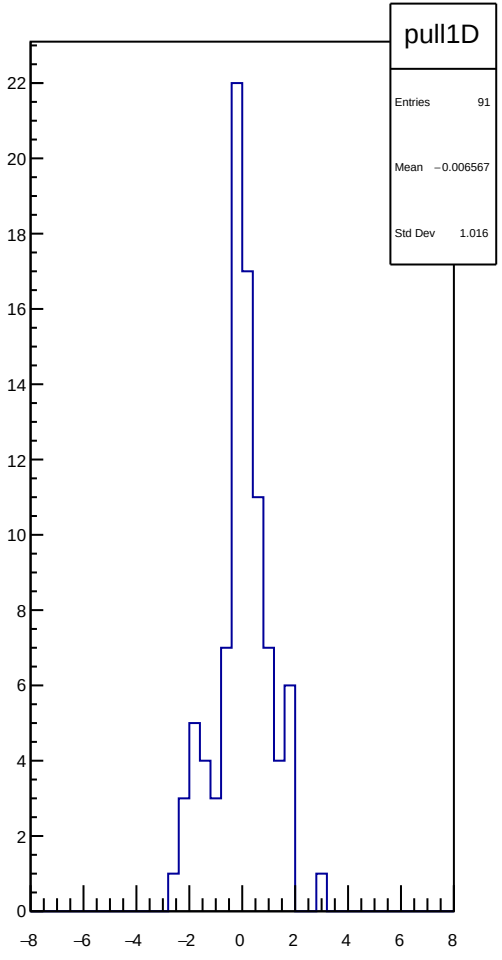

pull1D
Entries 91
Mean −0.006561
Std Dev 1.016

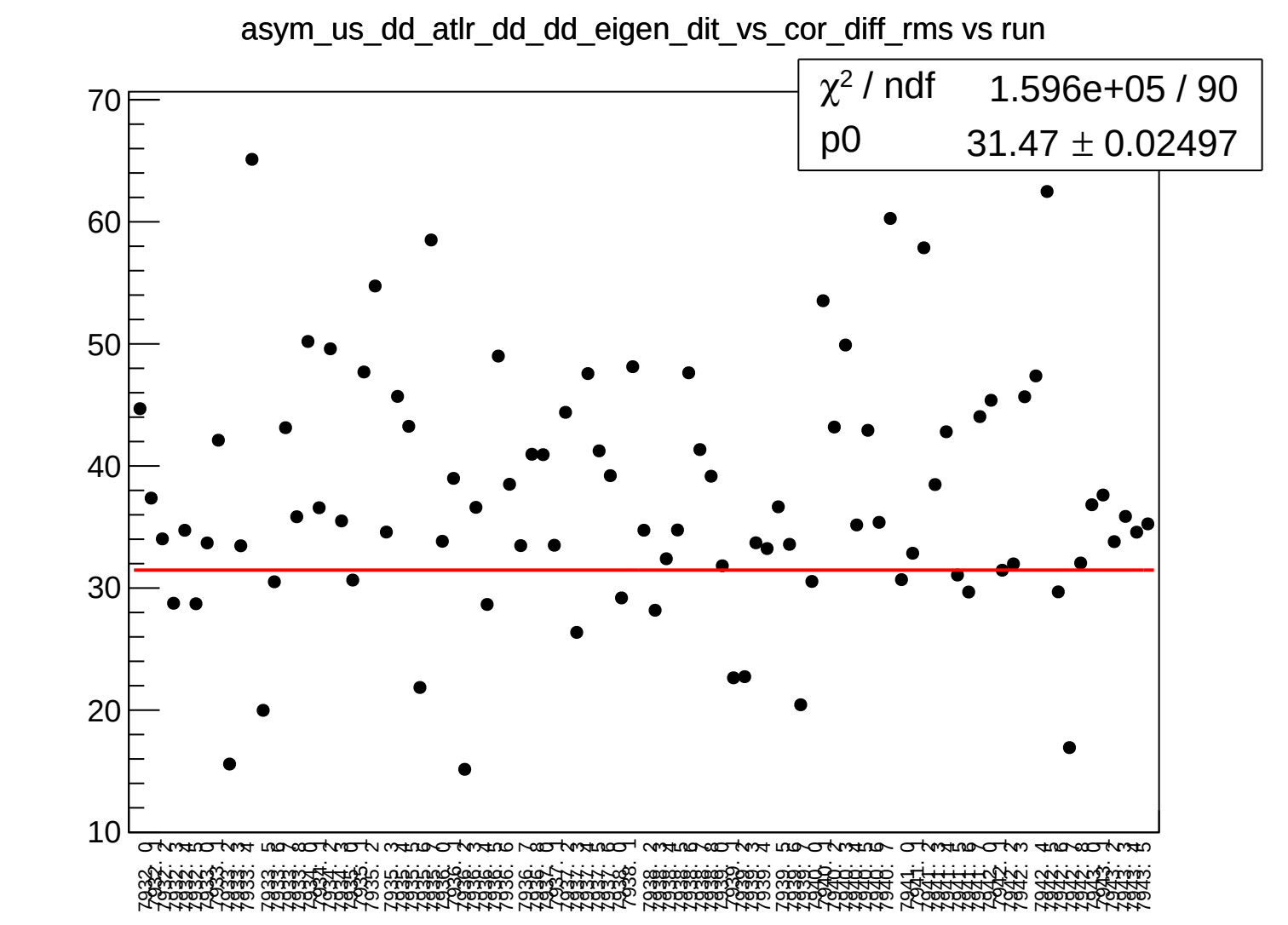

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 90
p0 31.47 ± 0.02497
70
60
50
40
30
20
10

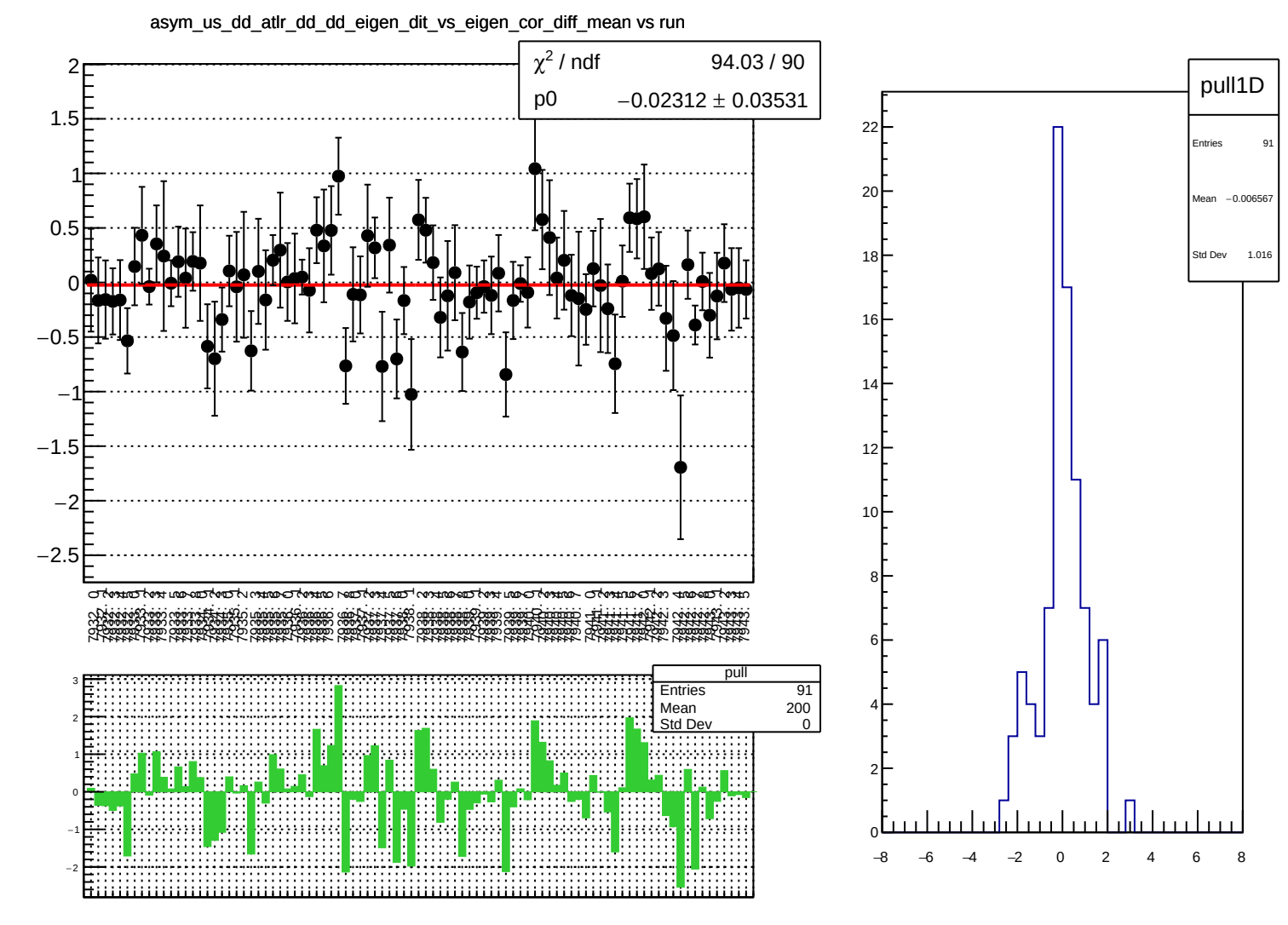

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.8 / 90
p0 −4.998e−06 ± 8.273e−06
pull
Entries 91
Mean −4024
Std Dev 0
pull1D
Entries 91
Mean −0.0003374
Std Dev 1.113

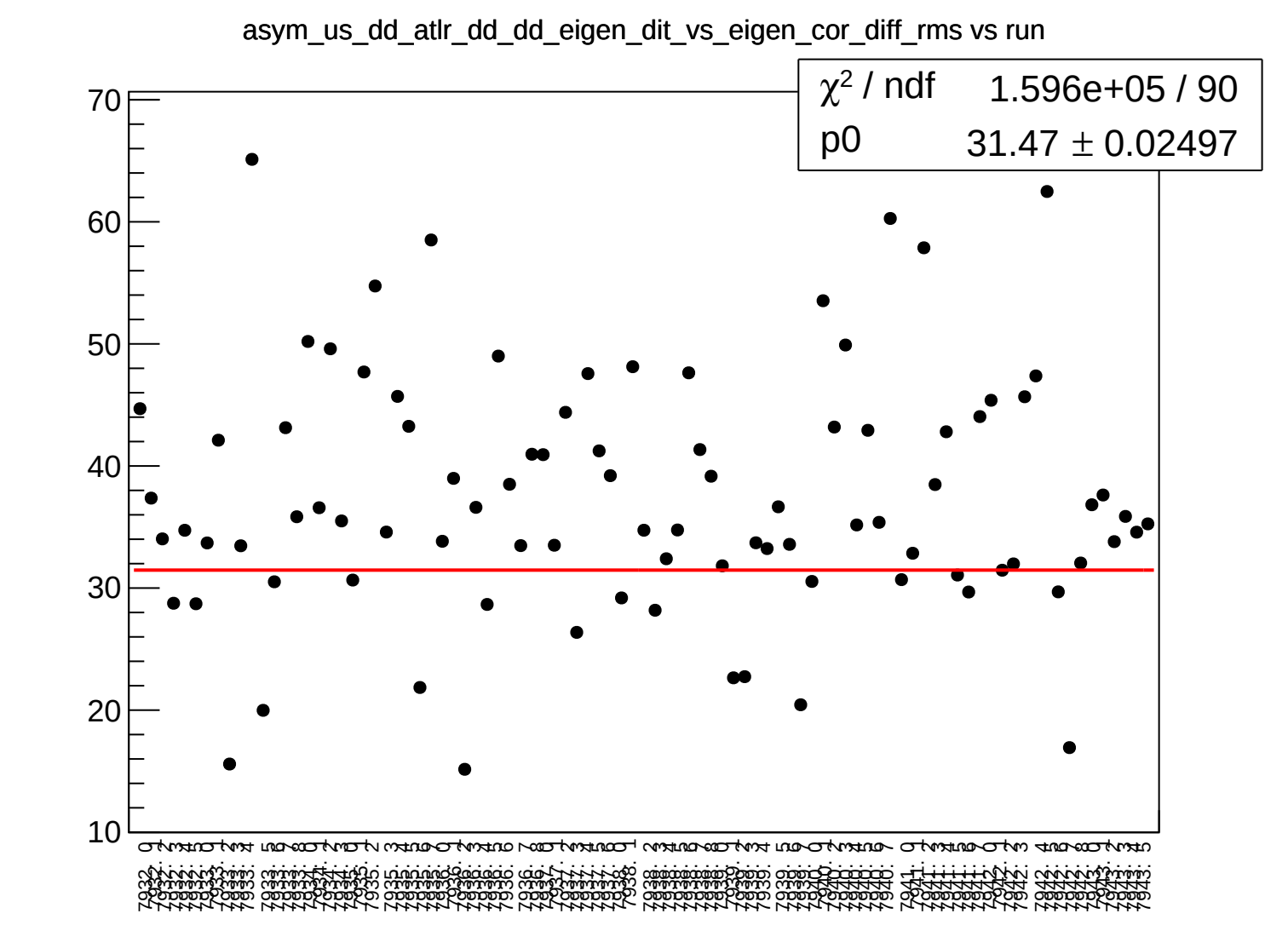

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2281 / 90
p0 0.00773 ± 5.85e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

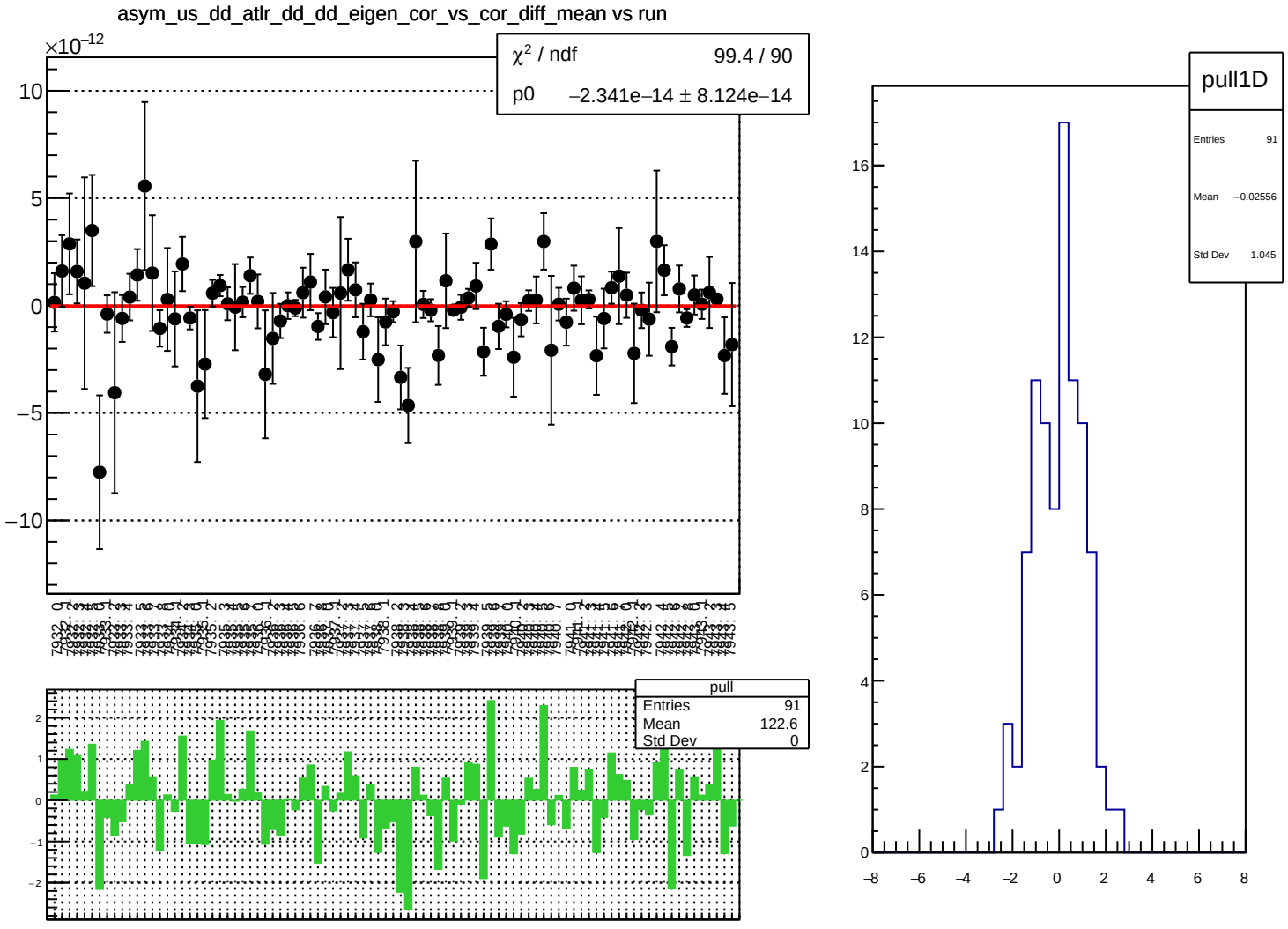

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 90
p0 −0.02312 ± 0.03531
pull
Entries 91
Mean 200
Std Dev 0

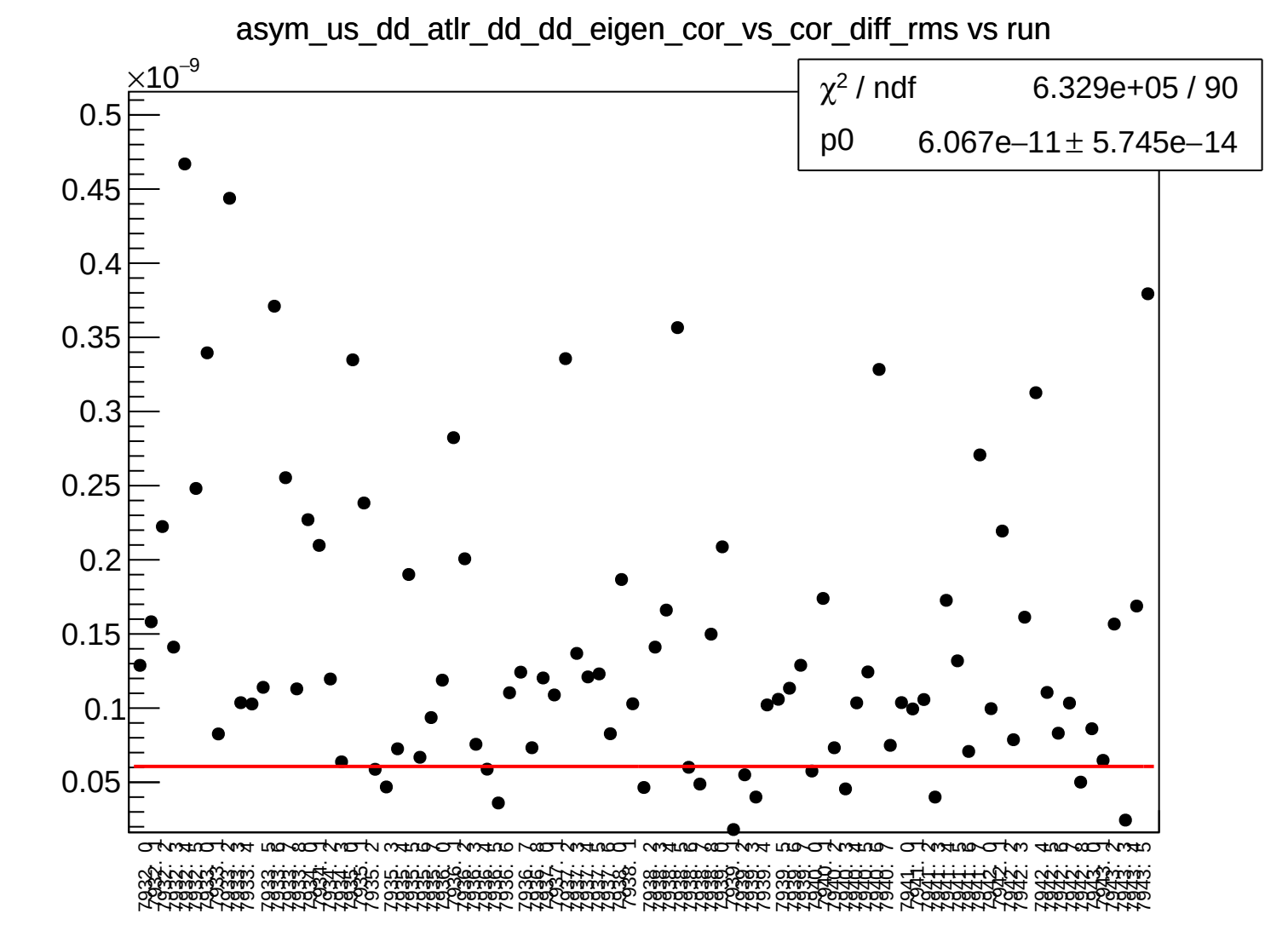

pull1D
Entries 91
Mean −0.006567
Std Dev 1.016

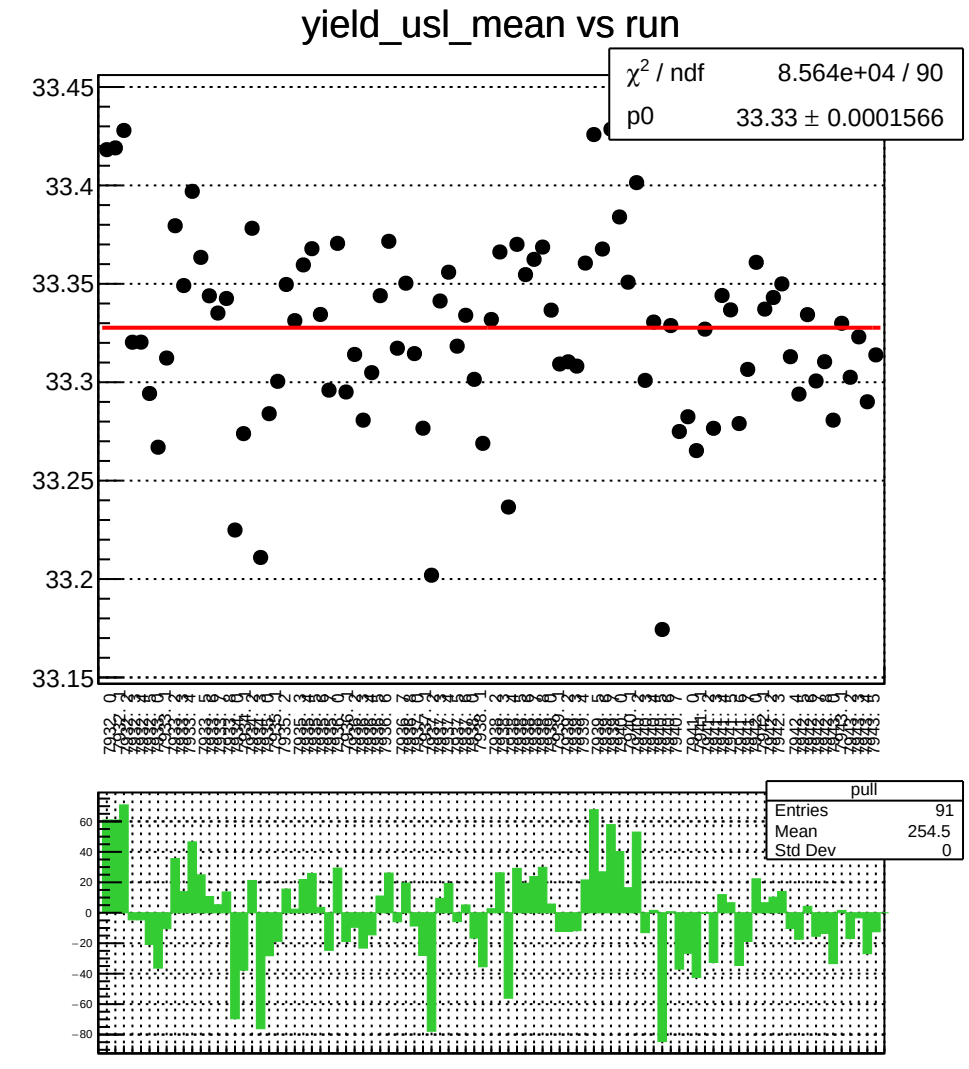

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 90
p0 31.47 ± 0.02497
70
60
50
40
30
20
10

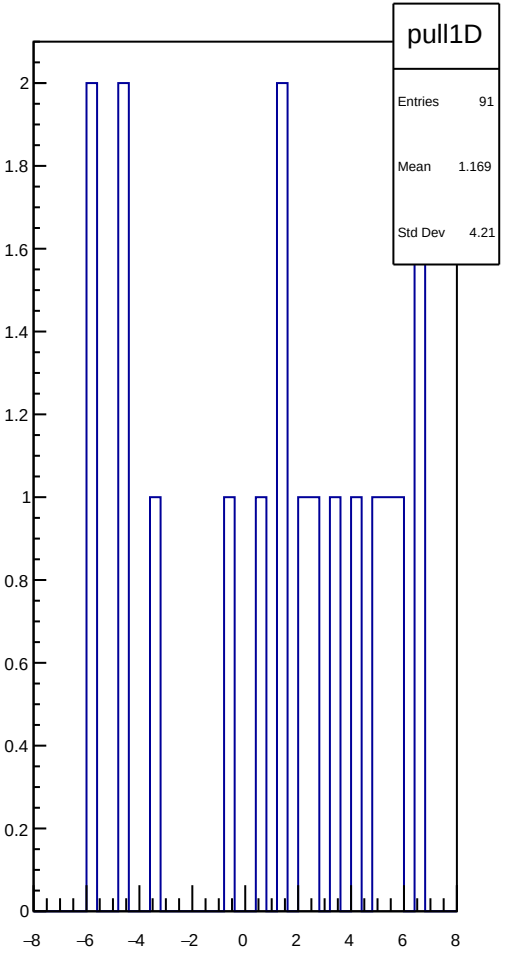

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.03 / 90
p0 −0.02312 ± 0.03531
pull
Entries 91
Mean 200
Std Dev 0
pull1D
Entries 91
Mean −0.006567
Std Dev 1.016

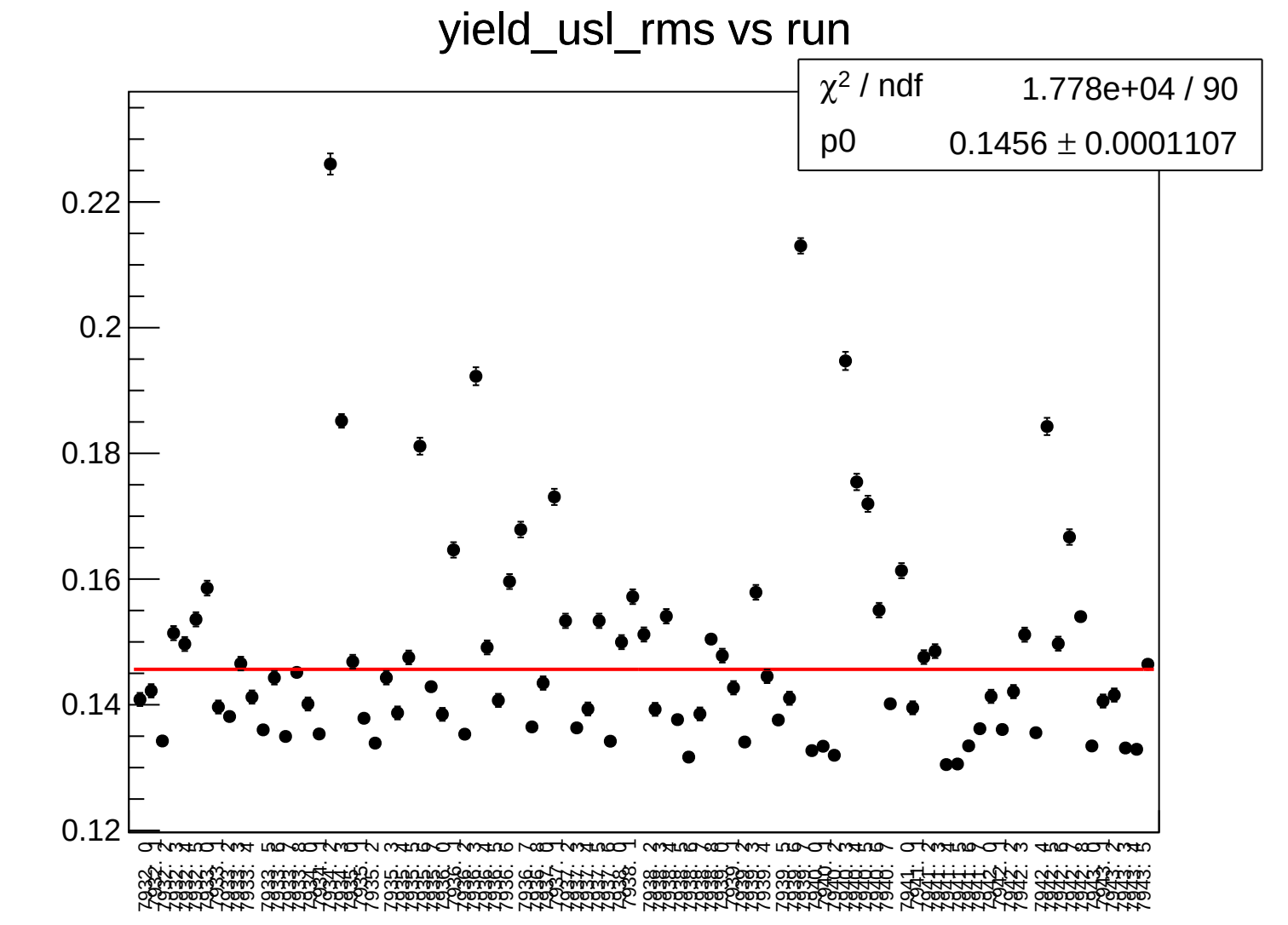

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 90
p0 31.47 ± 0.02497
70
60
50
40
30
20
10

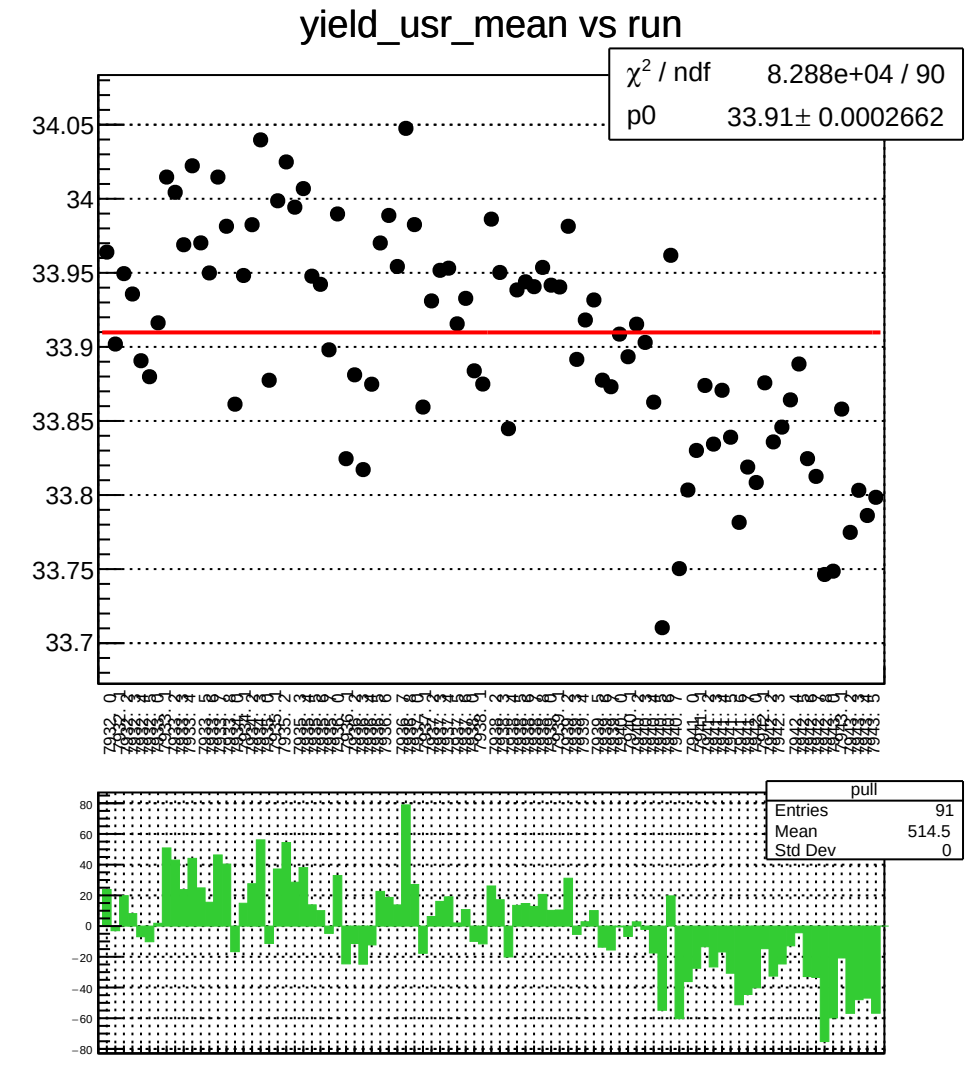

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.4 / 90
p0 −2.341e−14 ± 8.124e−14
pull
Entries 91
Mean 122.6
Std Dev 0
pull1D
Entries 91
Mean −0.02556
Std Dev 1.045

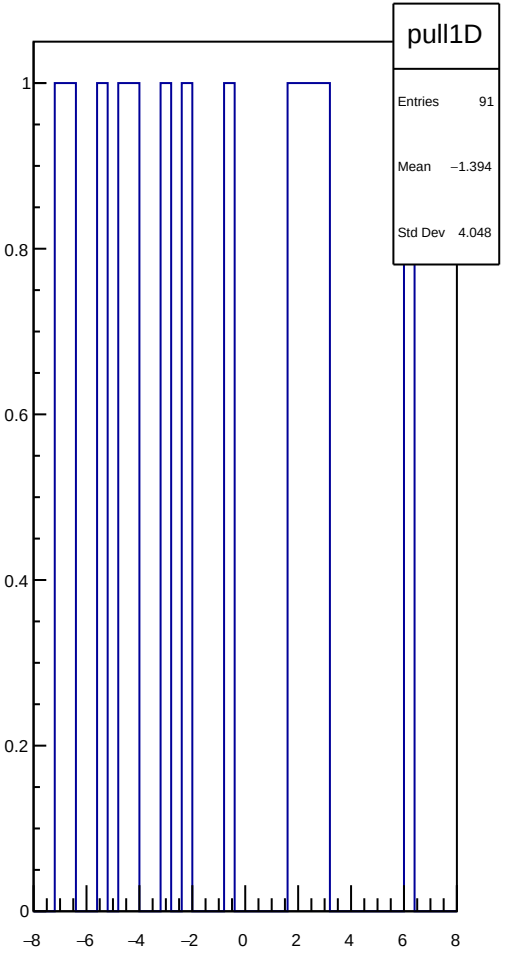

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.329e+05 / 90
p0 6.067e−11 ± 5.745e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

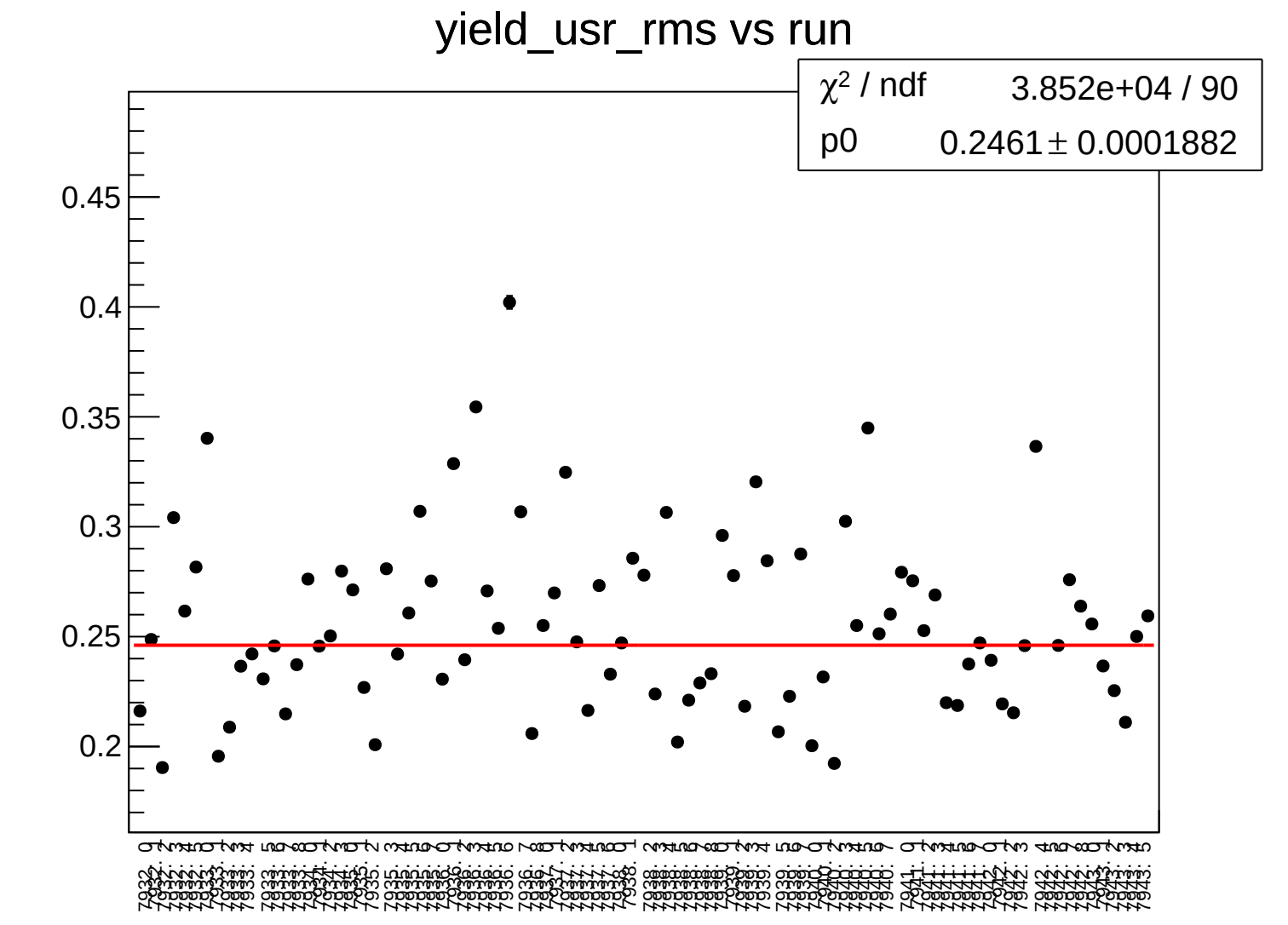

yield_usl_mean vs run
χ² / ndf 8.564e+04 / 90
p0 33.33 ± 0.0001566
33.45
33.4
33.35
33.3
33.25
33.2
33.15
pull
Entries 91
Mean 254.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

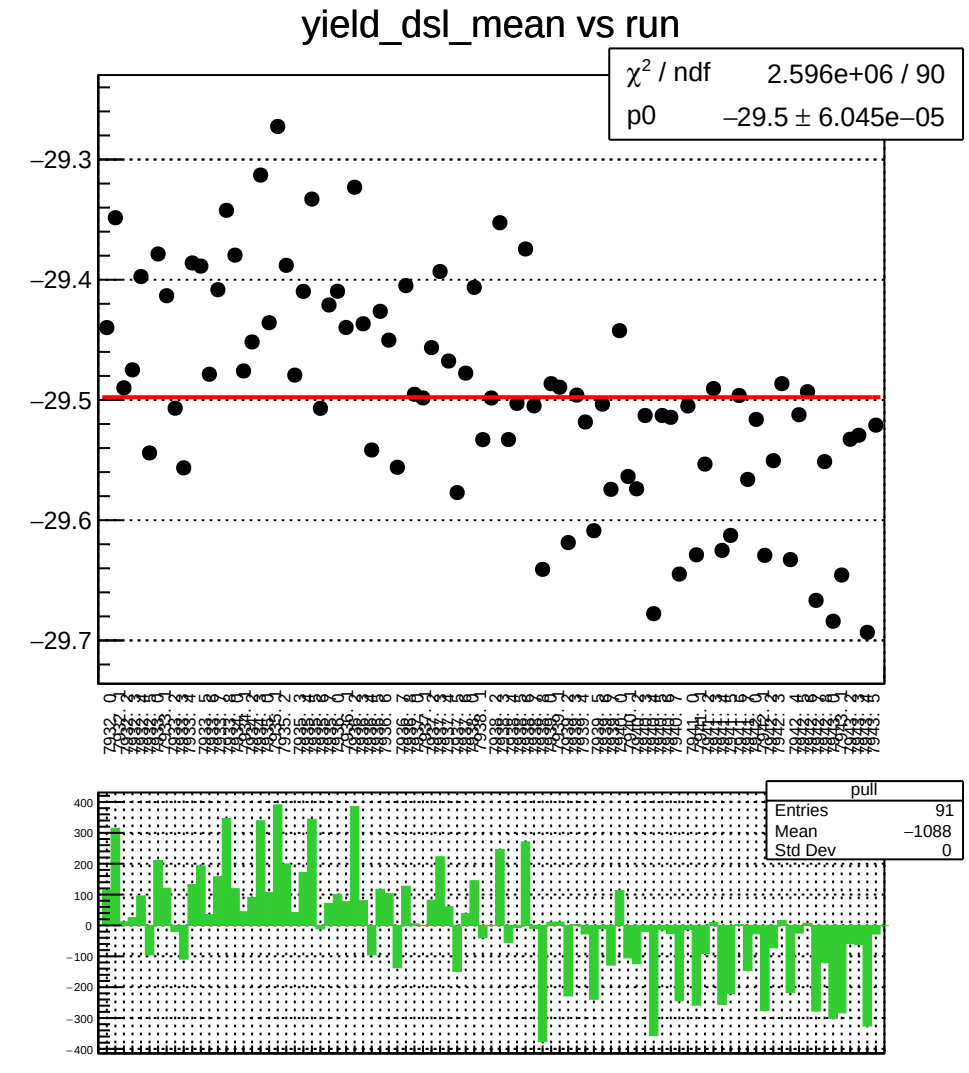

pull1D
Entries 91
Mean 1.169
Std Dev 4.21
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

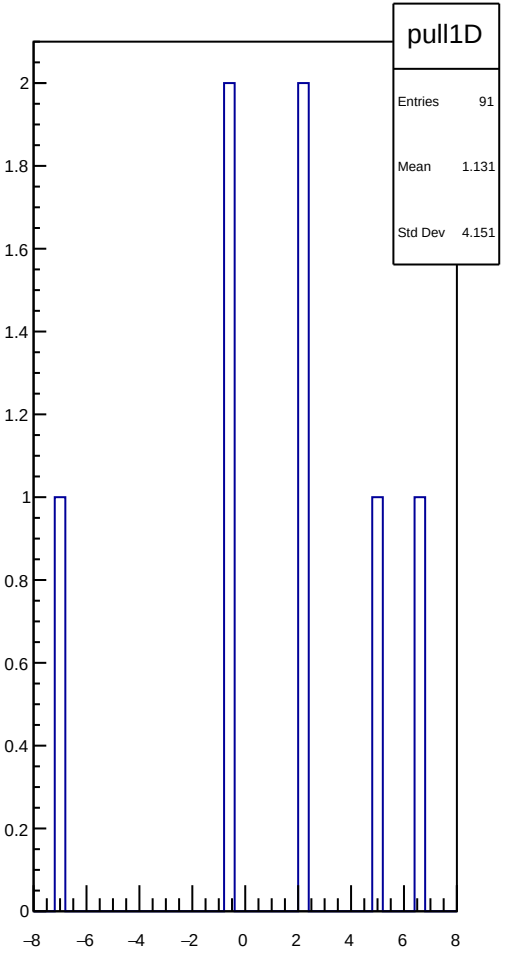

yield_usl_rms vs run
χ² / ndf 1.778e+04 / 90
p0 0.1456 ± 0.0001107
0.22
0.2
0.18
0.16
0.14
0.12

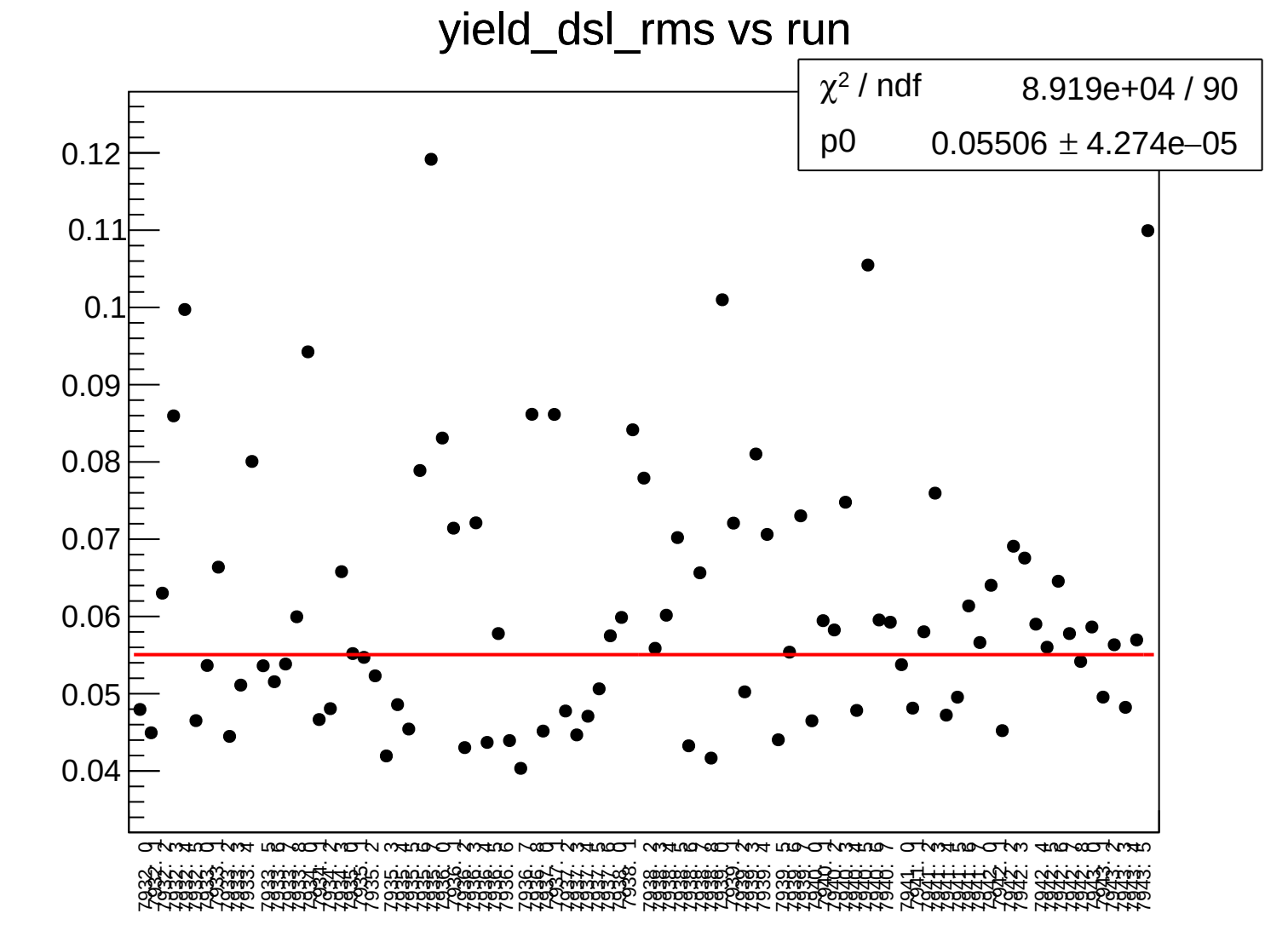

yield_usr_mean vs run
χ² / ndf 8.288e+04 / 90
p0 33.91± 0.0002662
34.05
34
33.95
33.9
33.85
33.8
33.75
33.7
pull
Entries 91
Mean 514.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

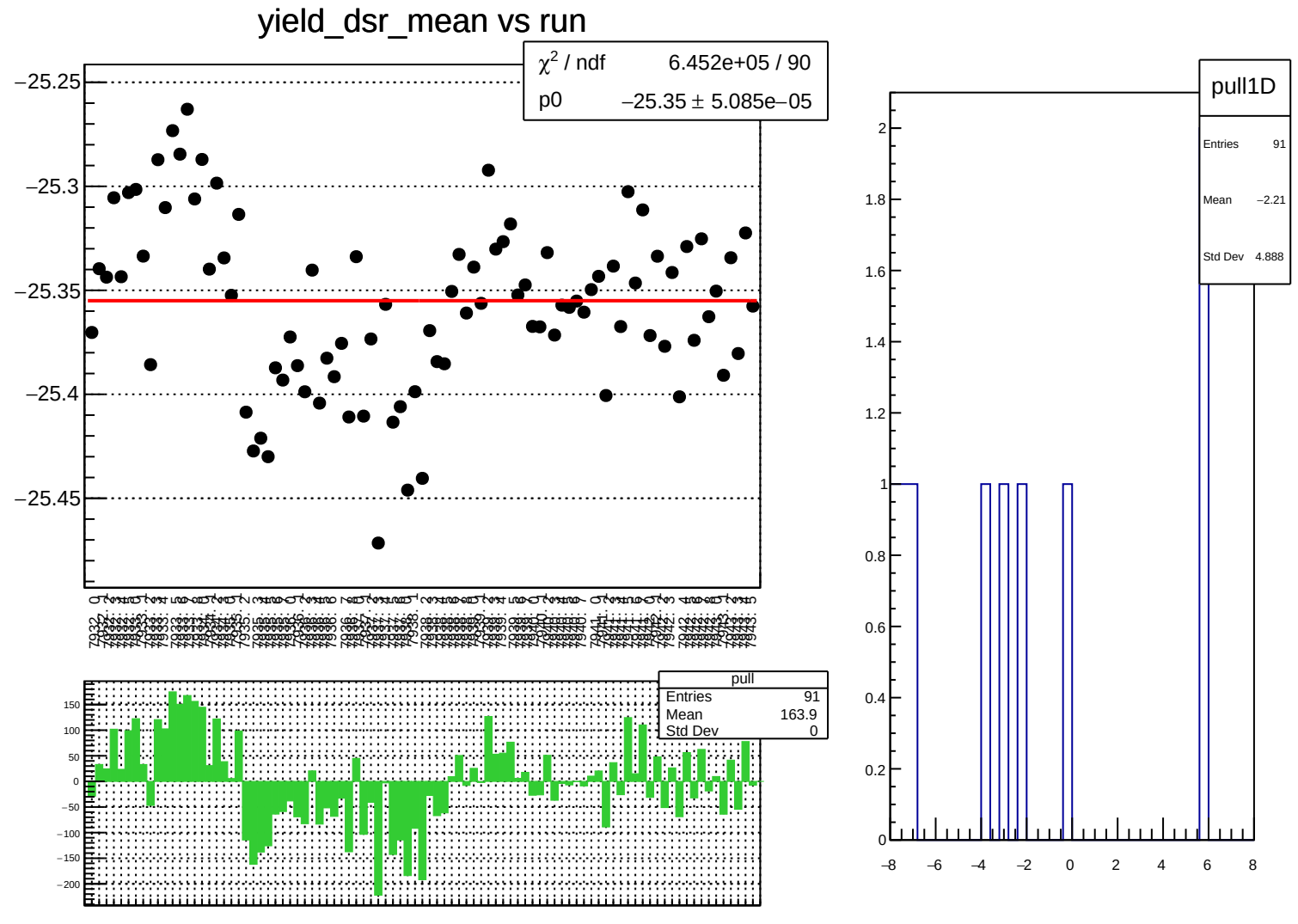

pull1D
Entries 91
Mean −1.394
Std Dev 4.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

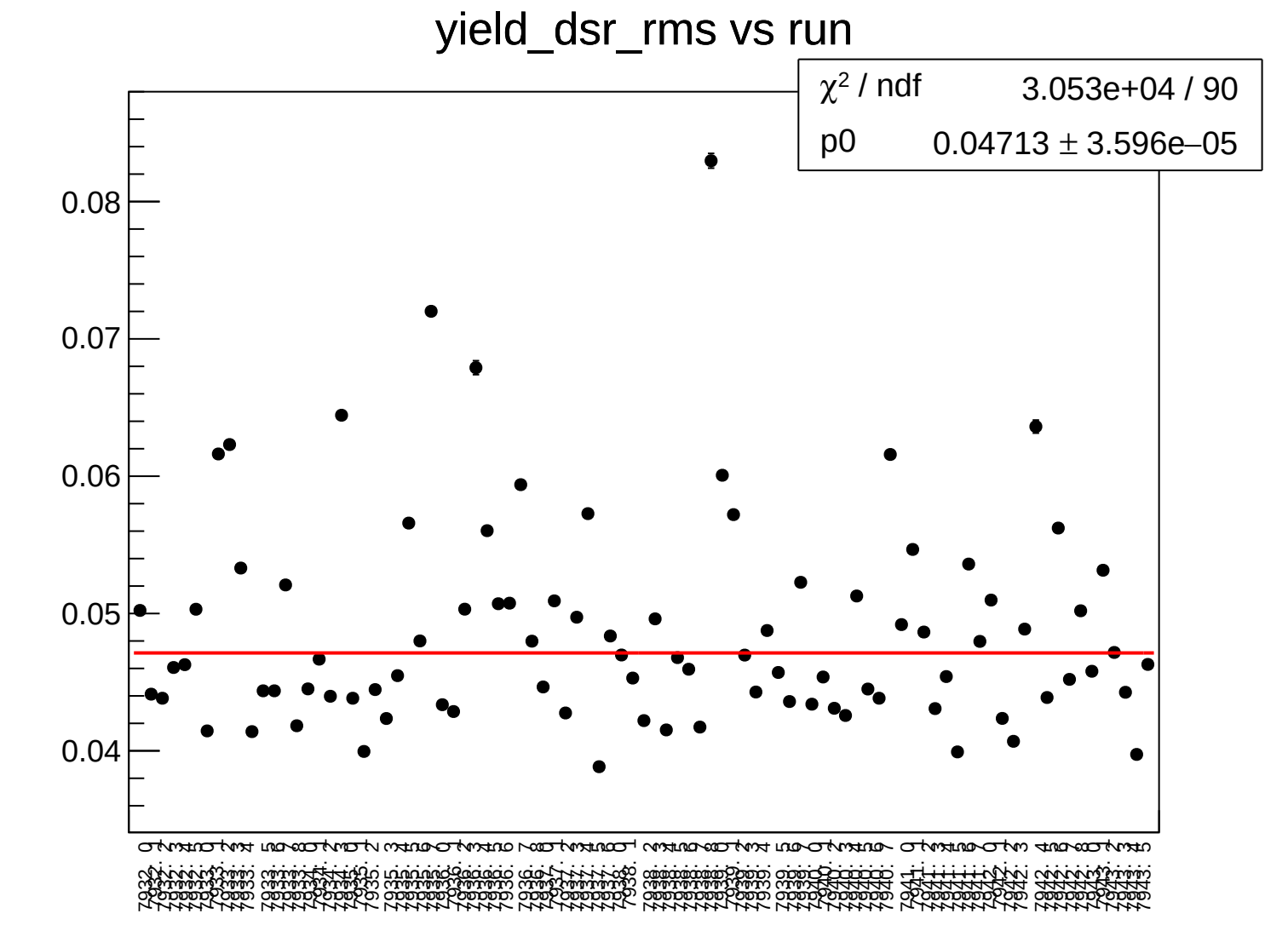

yield_usr_rms vs run
χ² / ndf 3.852e+04 / 90
p0 0.2461 ± 0.0001882
0.45
0.4
0.35
0.3
0.25
0.2

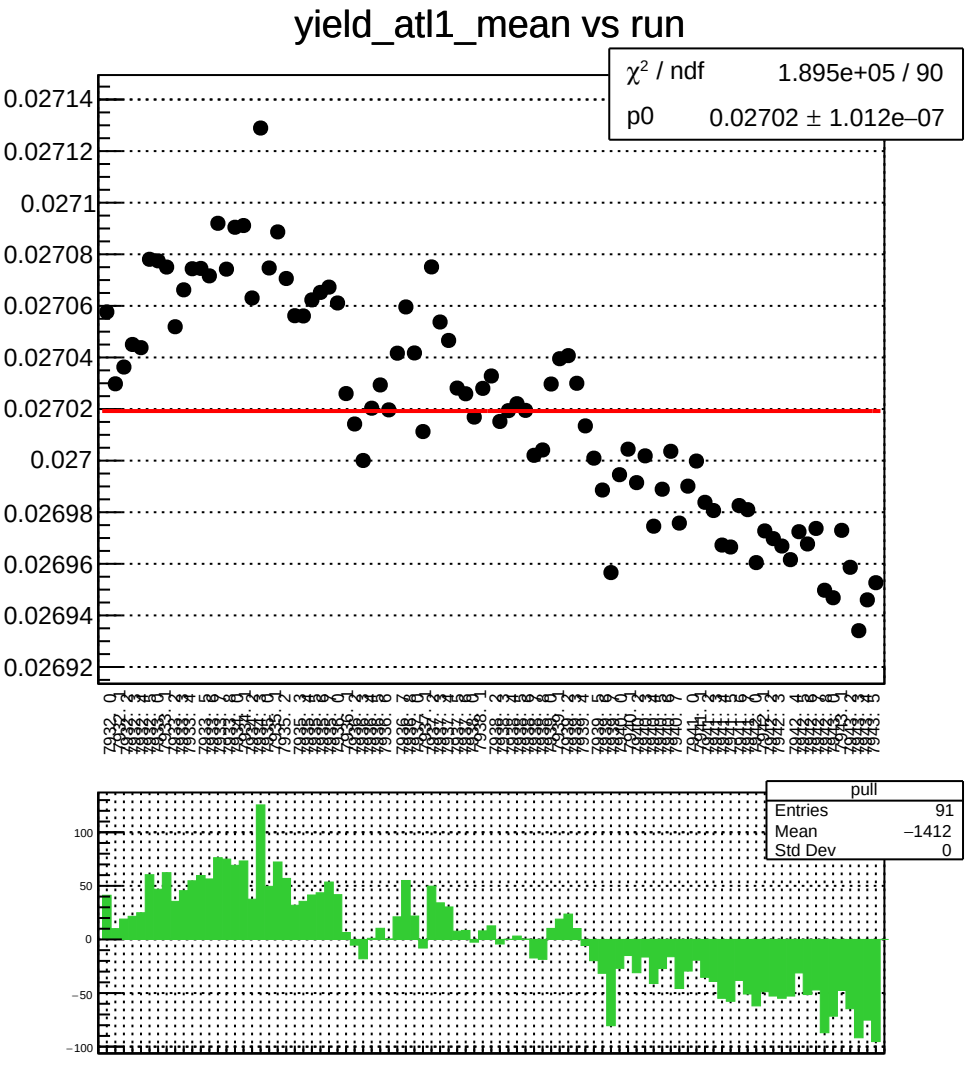

yield_dsl_mean vs run
χ² / ndf 2.596e+06 / 90
p0 −29.5 ± 6.045e−05
−29.3
−29.4
−29.5
−29.6
−29.7
pull
Entries 91
Mean −1088
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

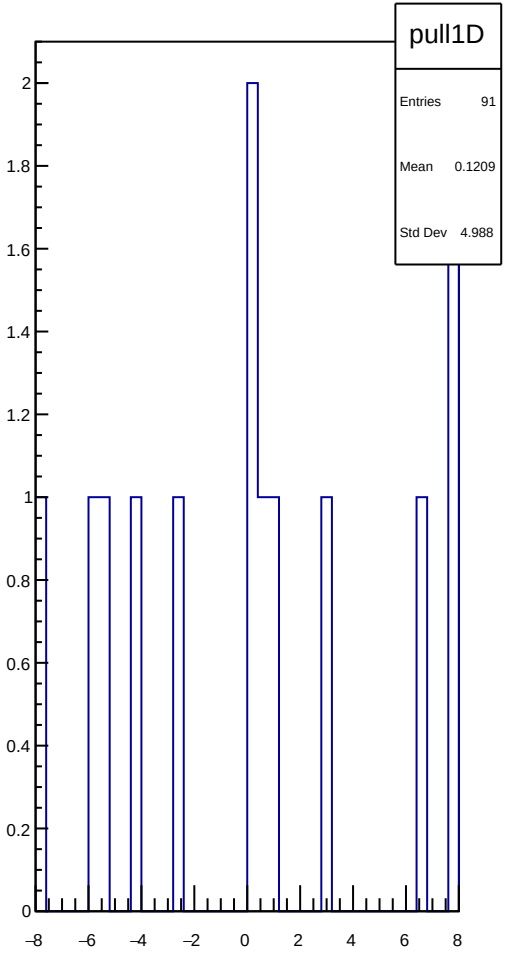

pull1D
Entries 91
Mean 1.131
Std Dev 4.151
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

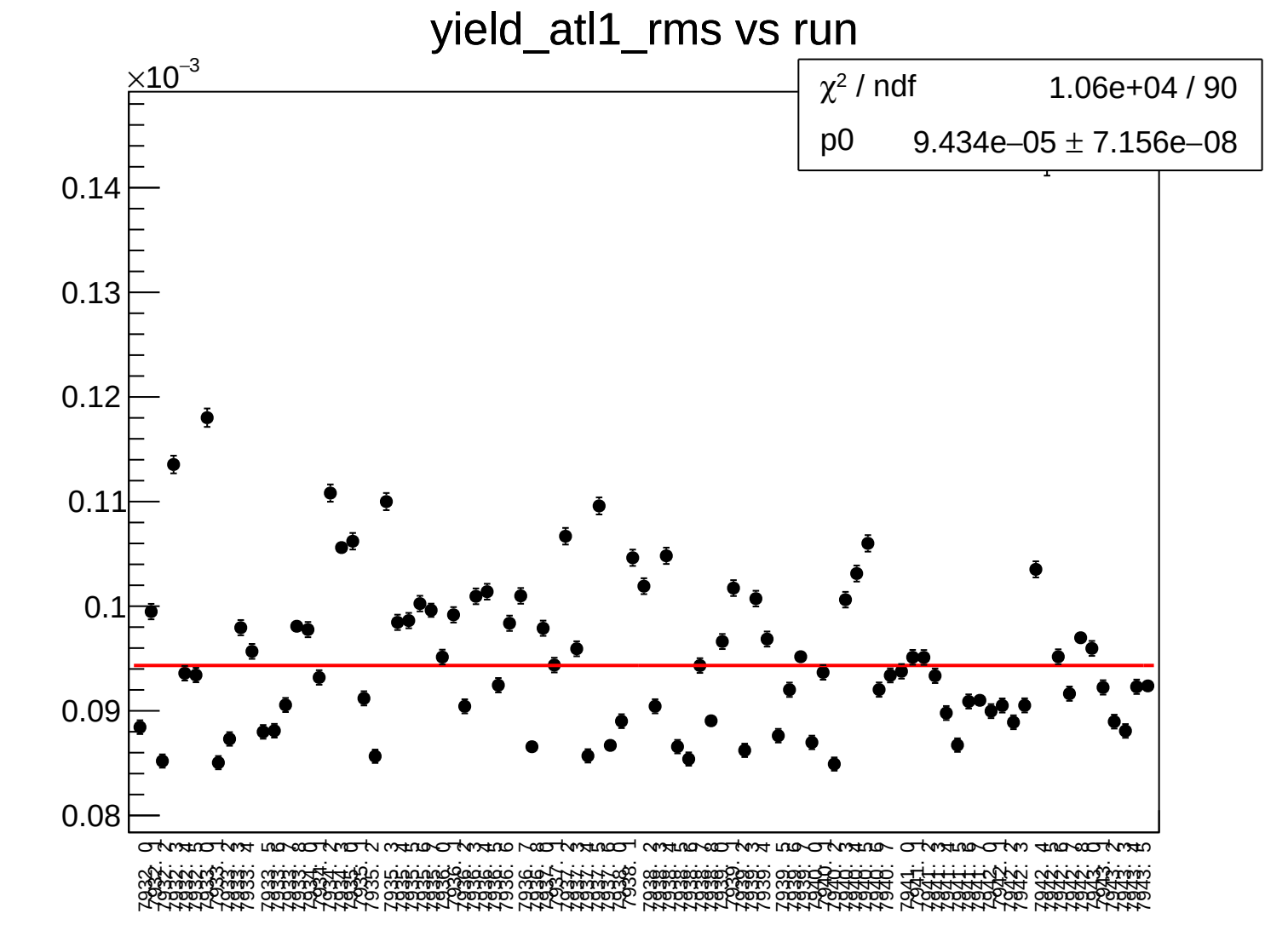

yield_dsl_rms vs run
χ² / ndf 8.919e+04 / 90
p0 0.05506 ± 4.274e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

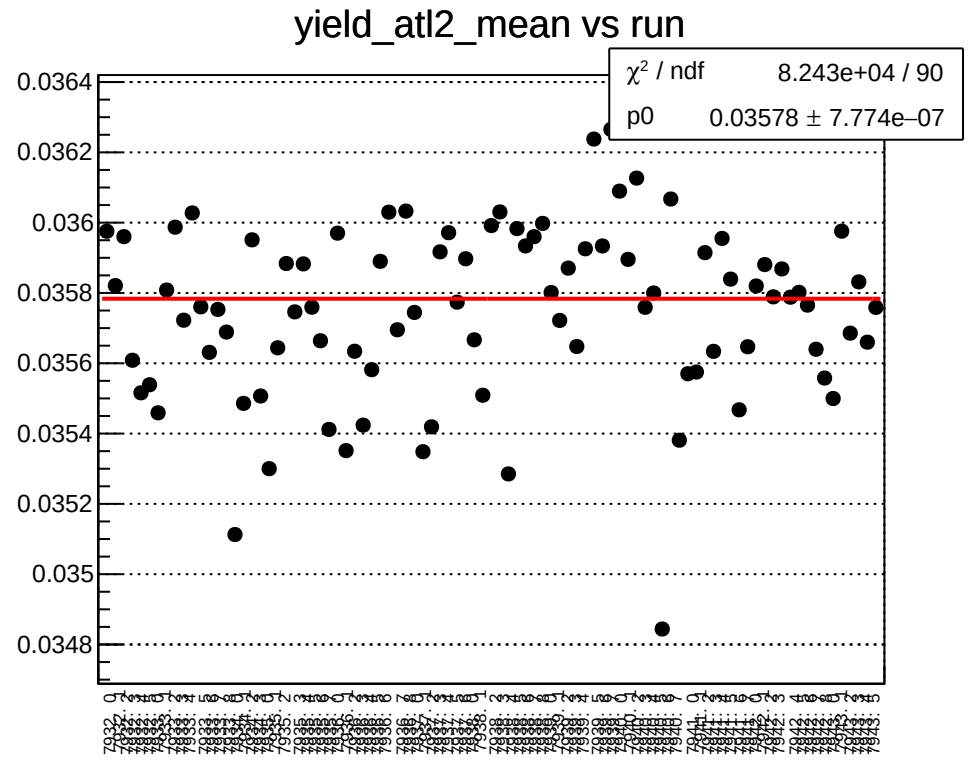

yield_dsr_mean vs run
χ² / ndf 6.452e+05 / 90
p0 −25.35 ± 5.085e−05
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 91
Mean 163.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 91
Mean −2.21
Std Dev 4.888
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

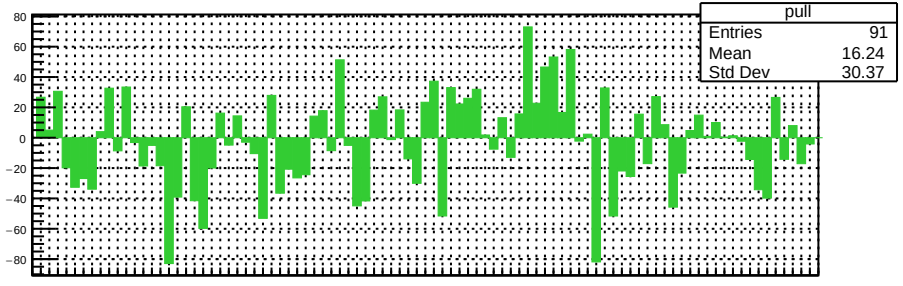

yield_dsr_rms vs run
χ² / ndf 3.053e+04 / 90
p0 0.04713 ± 3.596e−05
0.08
0.07
0.06
0.05
0.04

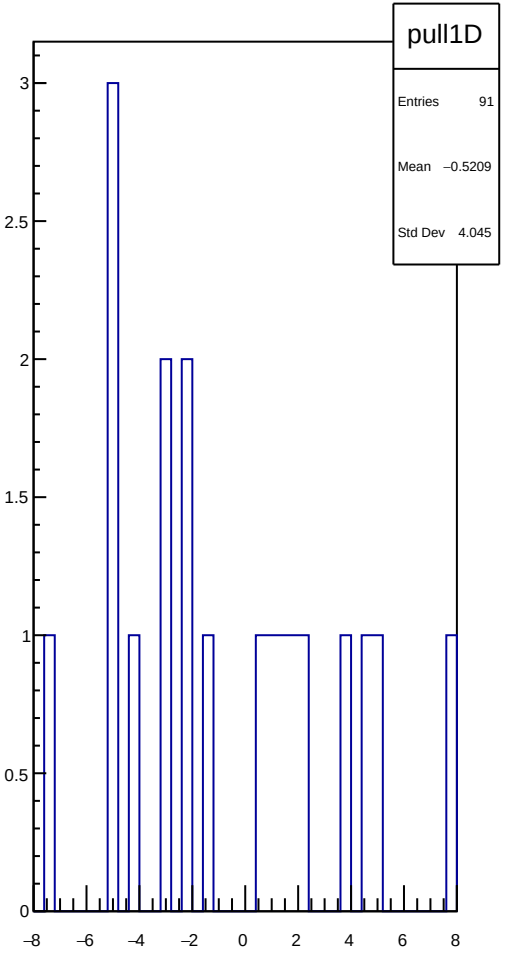

yield_atl1_mean vs run
χ² / ndf 1.895e+05 / 90
p0 0.02702 ± 1.012e−07
0.02714
0.02712
0.0271
0.02708
0.02706
0.02704
0.02702
0.027
0.02698
0.02696
0.02694
0.02692
pull
Entries 91
Mean −1412
Std Dev 0
100
50
0
−50
−100

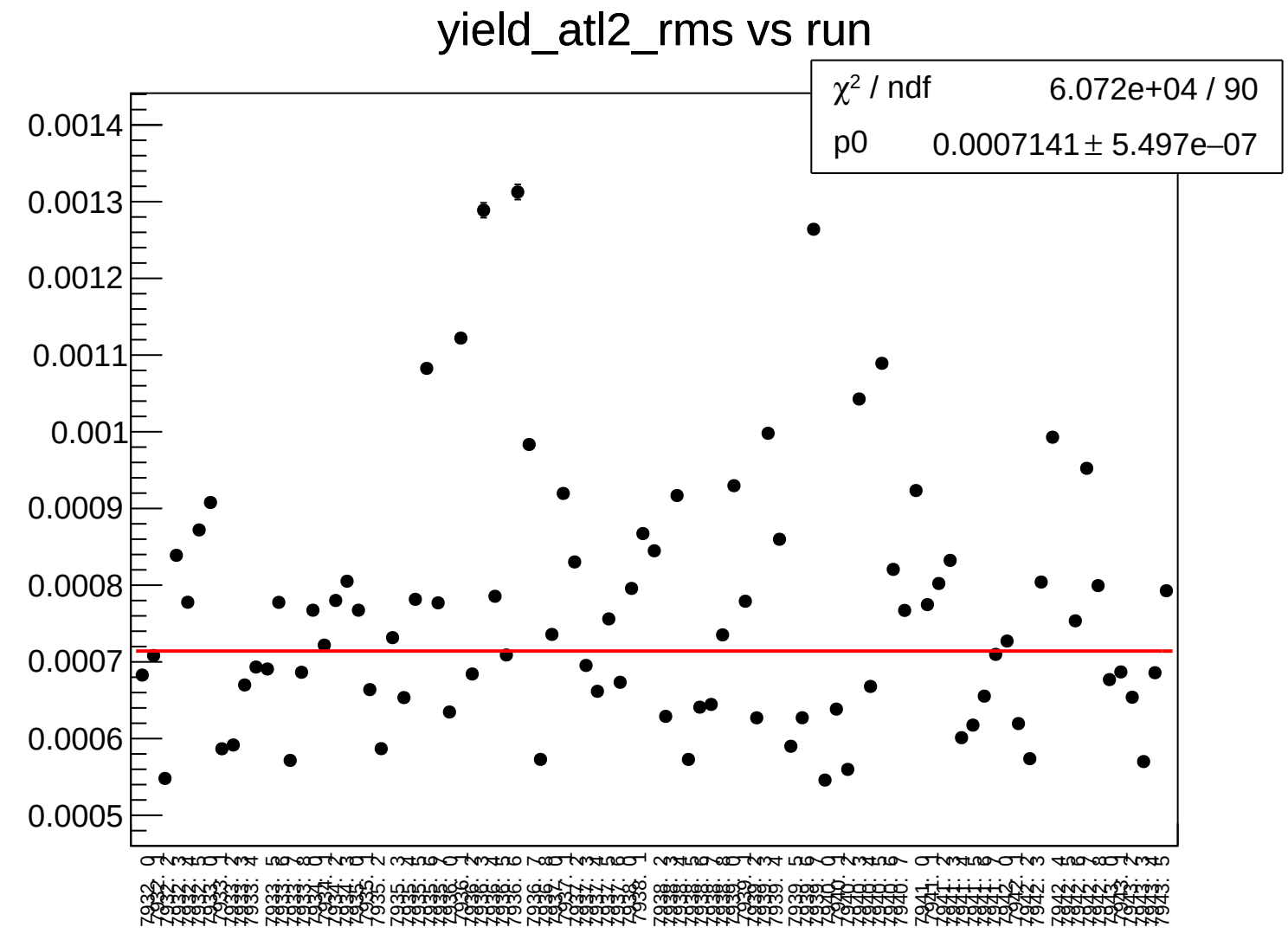

pull1D
Entries 91
Mean 0.1209
Std Dev 4.988
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

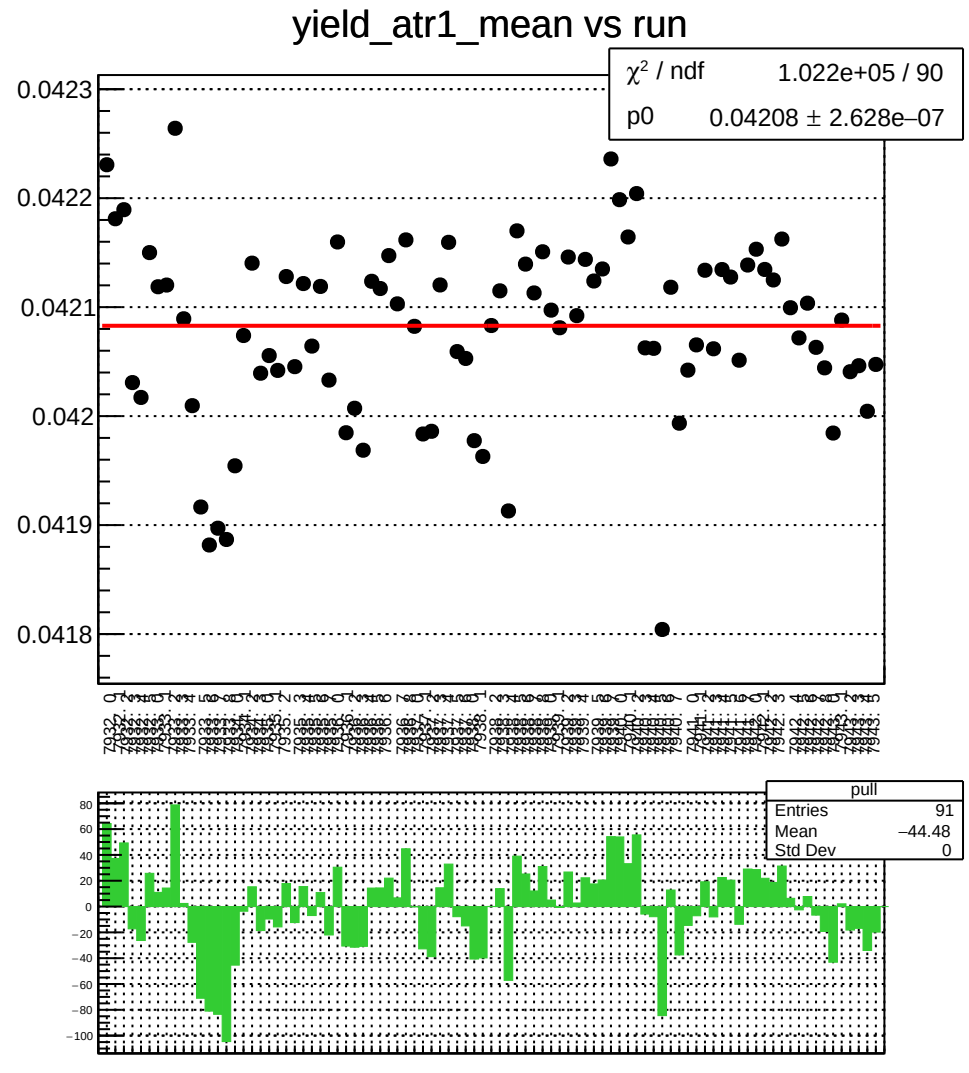

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.06e+04 / 90
p0 9.434e−05 ± 7.156e−08
0.14
0.13
0.12
0.11
0.1
0.09
0.08

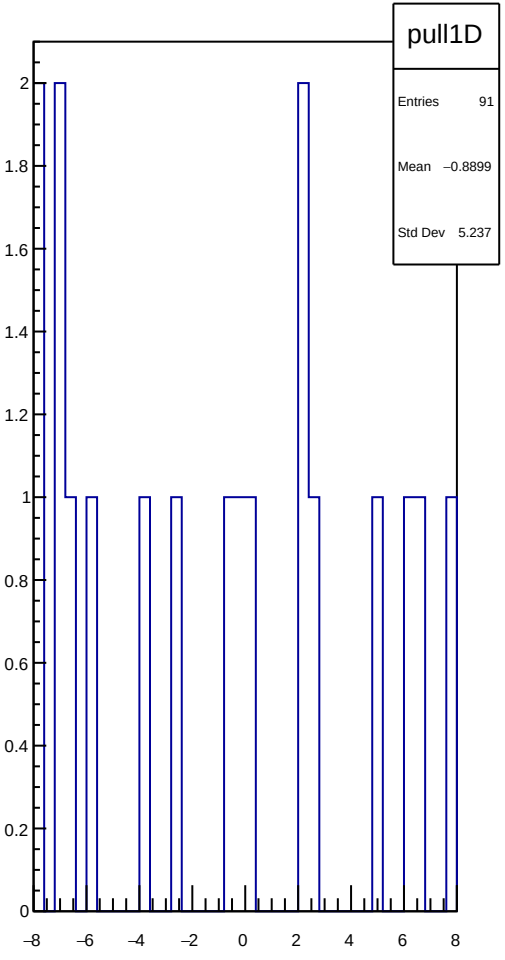

yield_atl2_mean vs run
χ² / ndf 8.243e+04 / 90
p0 0.03578 ± 7.774e−07
0.0364
0.0362
0.036
0.0358
0.0356
0.0354
0.0352
0.035
0.0348

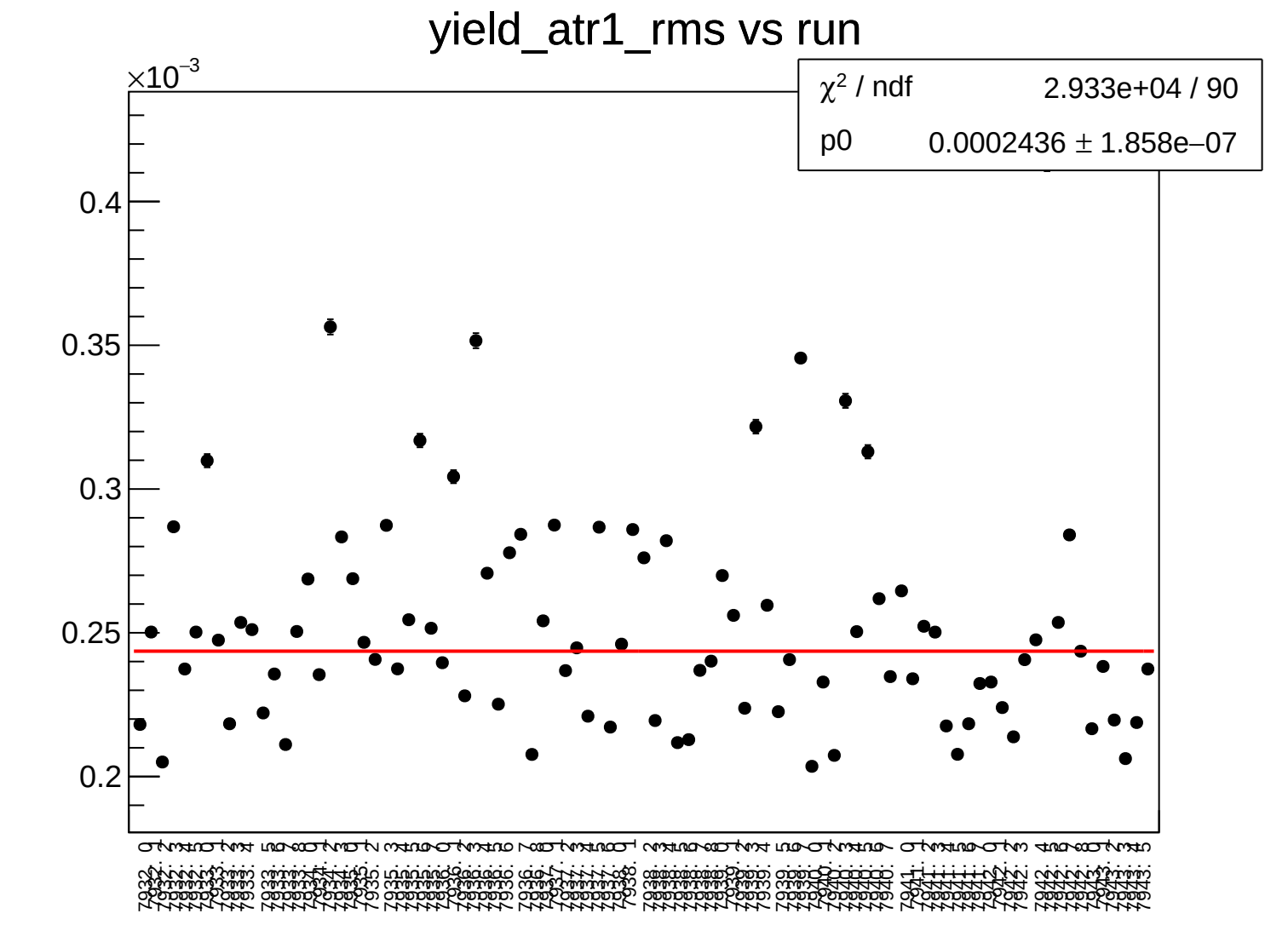

pull
Entries 91
Mean 16.24
Std Dev 30.37
80
60
40
20
0
−20
−40
−60
−80

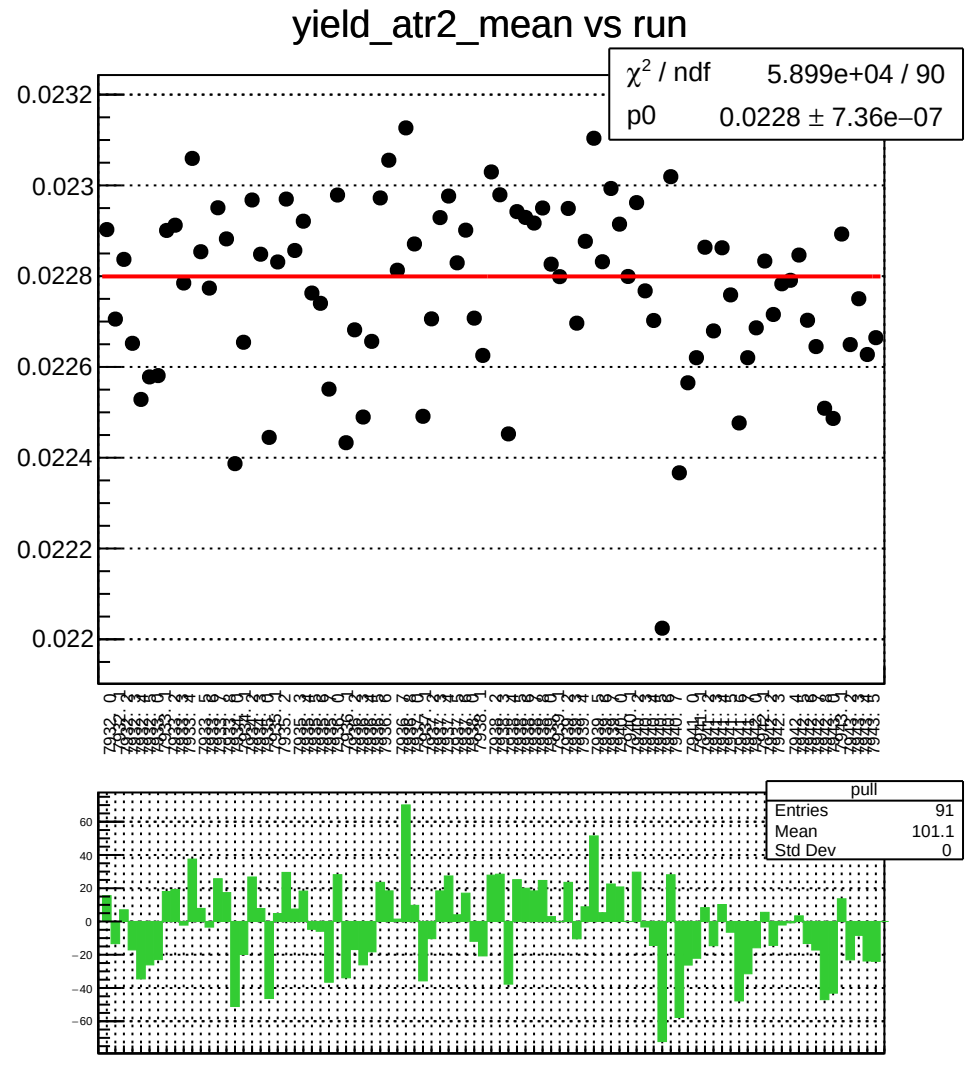

pull1D
Entries 91
Mean −0.5209
Std Dev 4.045
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

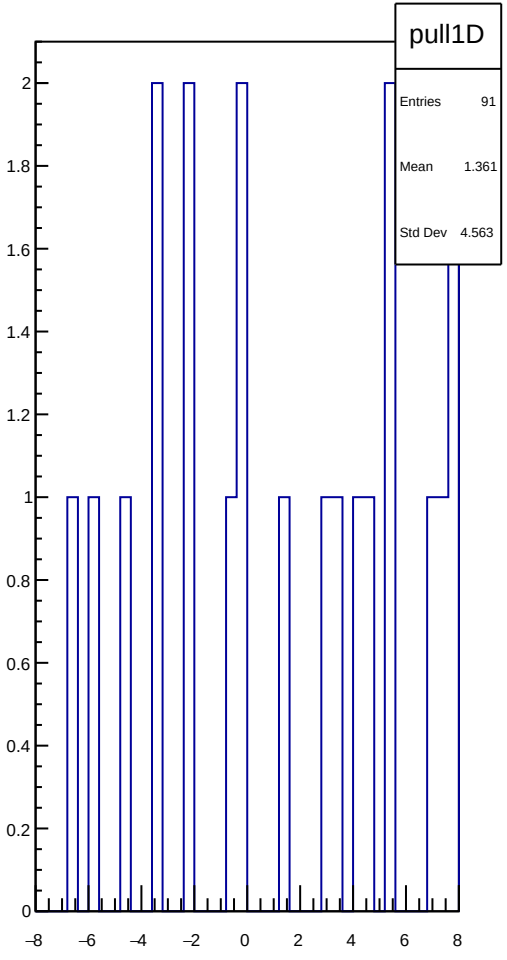

yield_atl2_rms vs run
χ² / ndf 6.072e+04 / 90
p0 0.0007141 ± 5.497e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

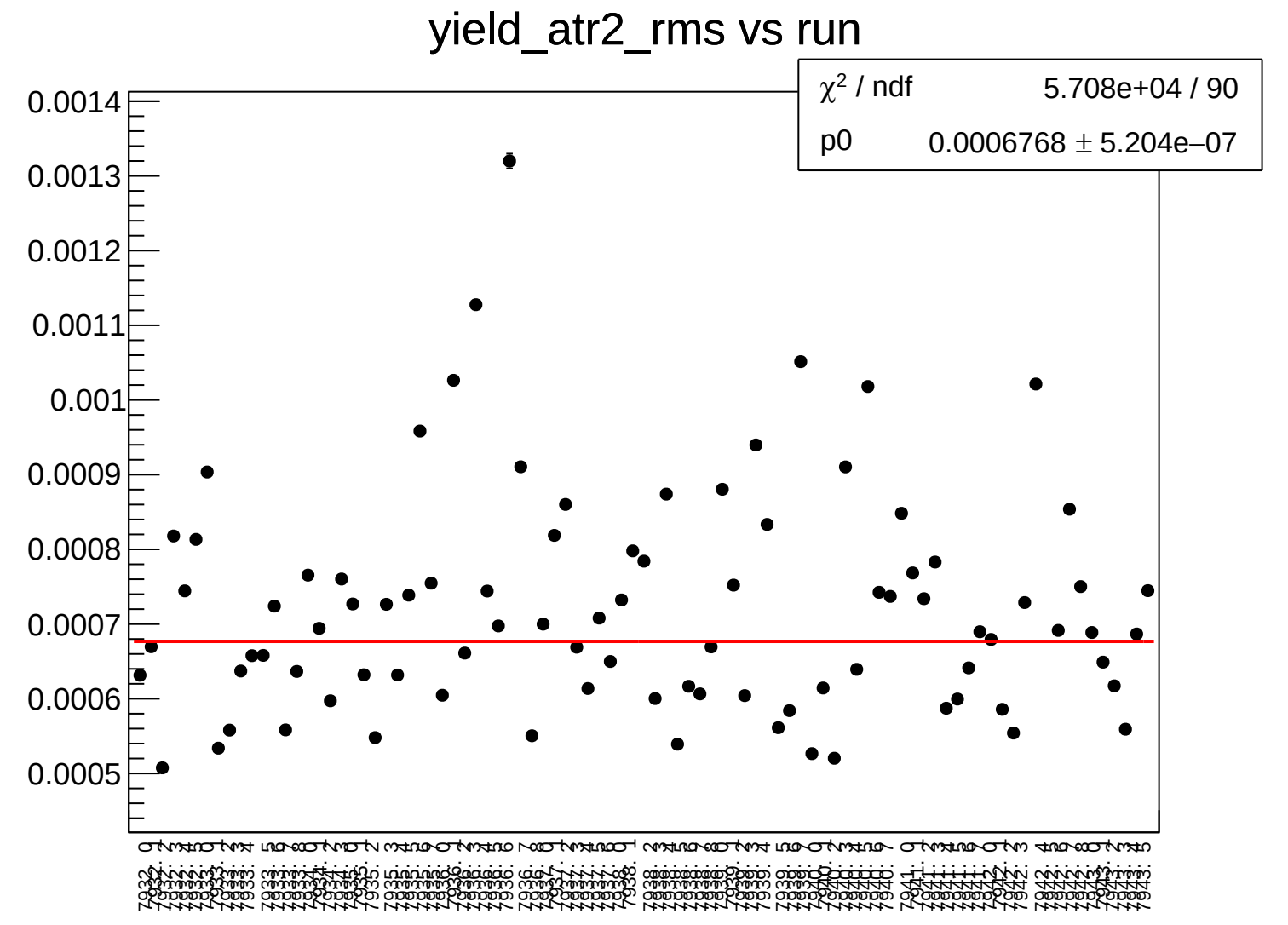

yield_atr1_mean vs run
χ² / ndf 1.022e+05 / 90
p0 0.04208 ± 2.628e−07
0.0423
0.0422
0.0421
0.042
0.0419
0.0418
pull
Entries 91
Mean −44.48
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

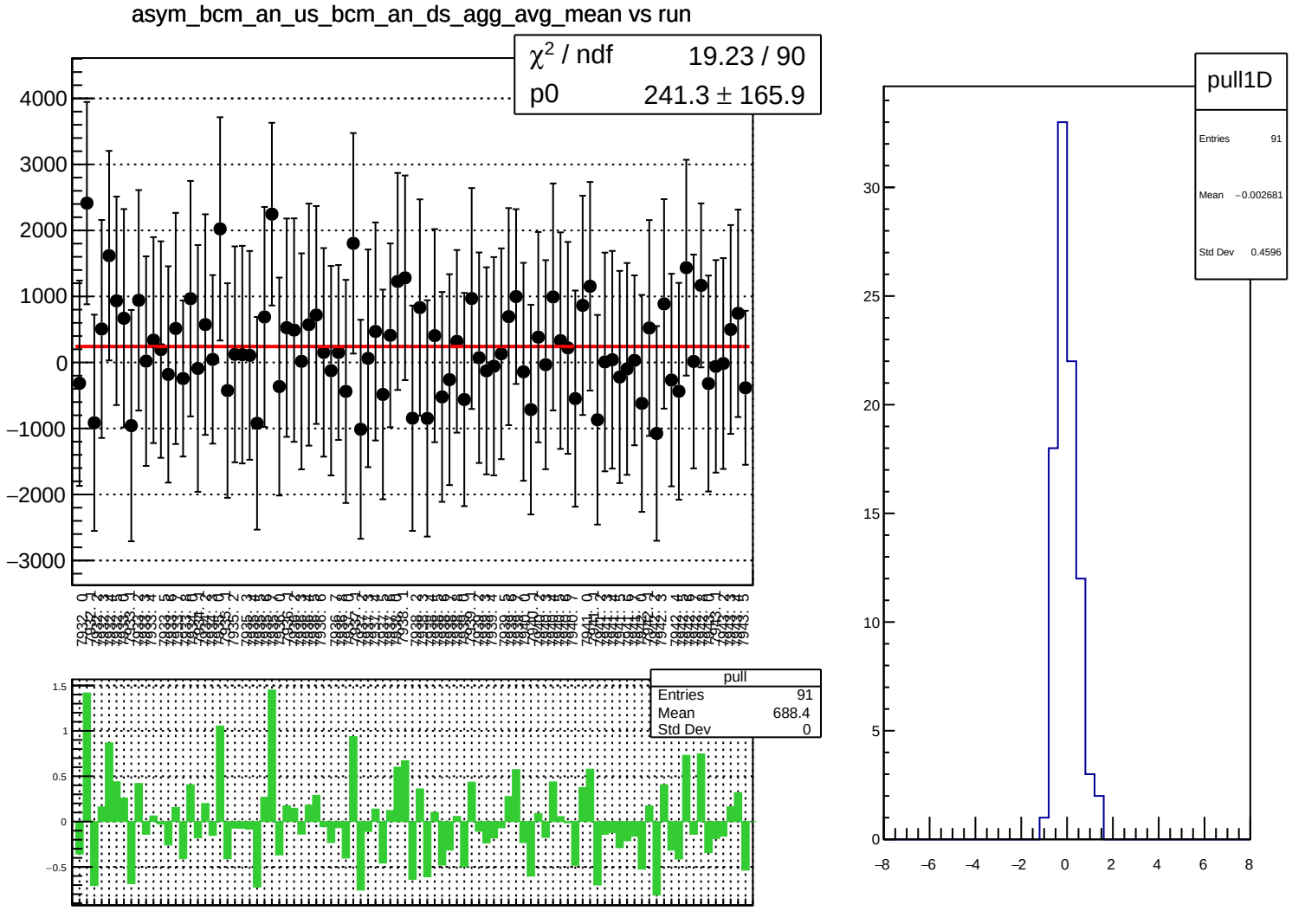

pull1D
Entries 91
Mean −0.8899
Std Dev 5.237
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

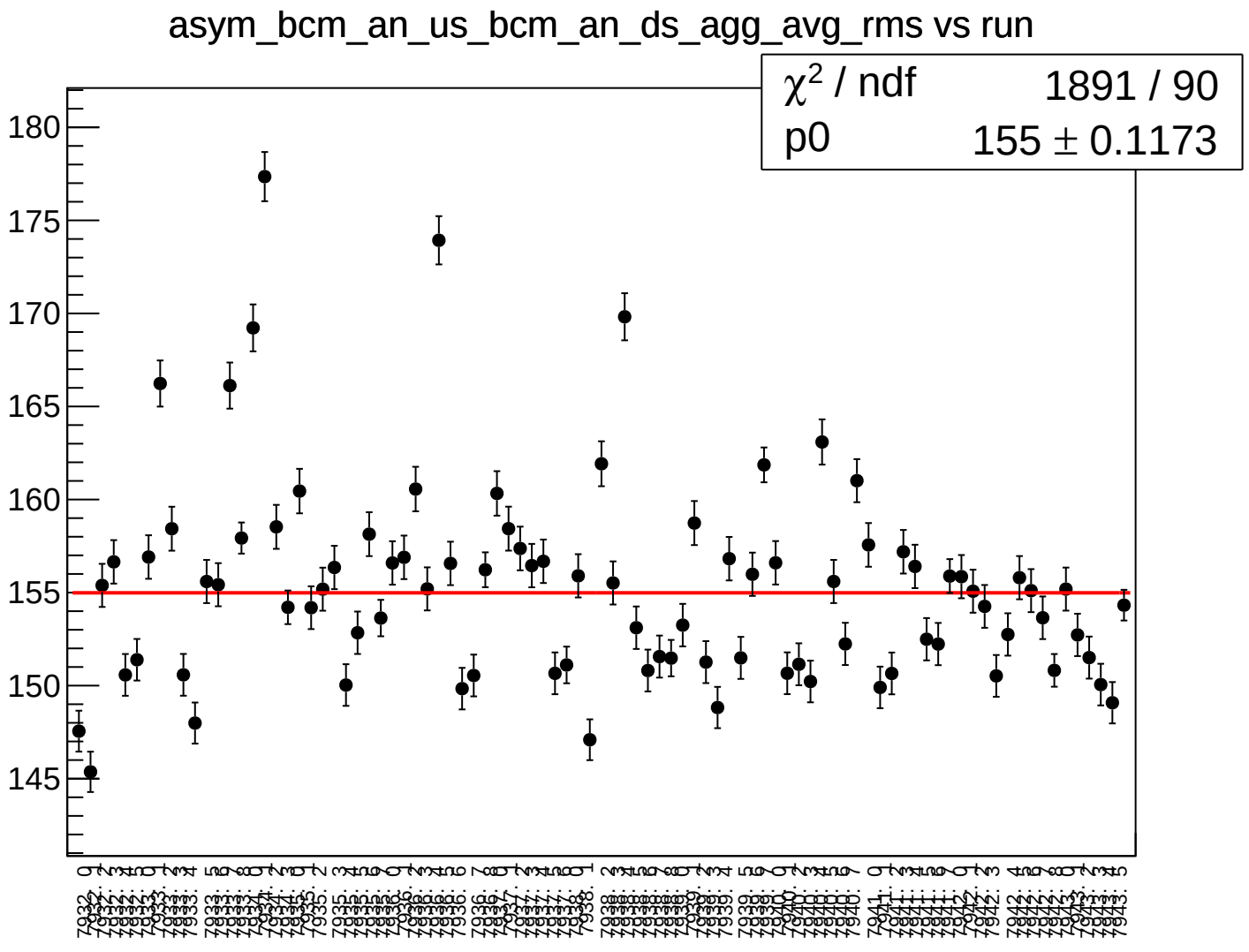

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.933e+04 / 90
p0 0.0002436 ± 1.858e−07
0.4
0.35
0.3
0.25
0.2

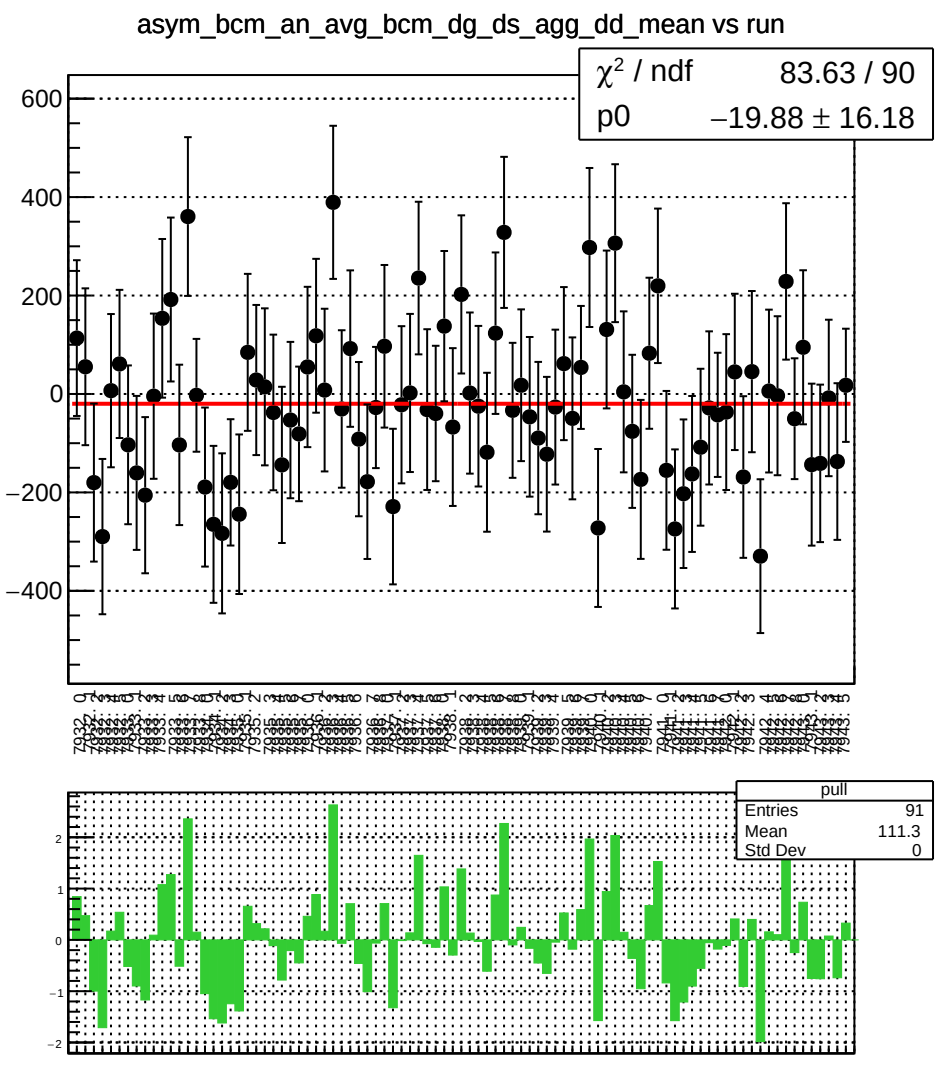

yield_atr2_mean vs run
χ² / ndf 5.899e+04 / 90
p0 0.0228 ± 7.36e−07
0.0232
0.023
0.0228
0.0226
0.0224
0.0222
0.022
pull
Entries 91
Mean 101.1
Std Dev 0
60
40
20
0
−20
−40
−60

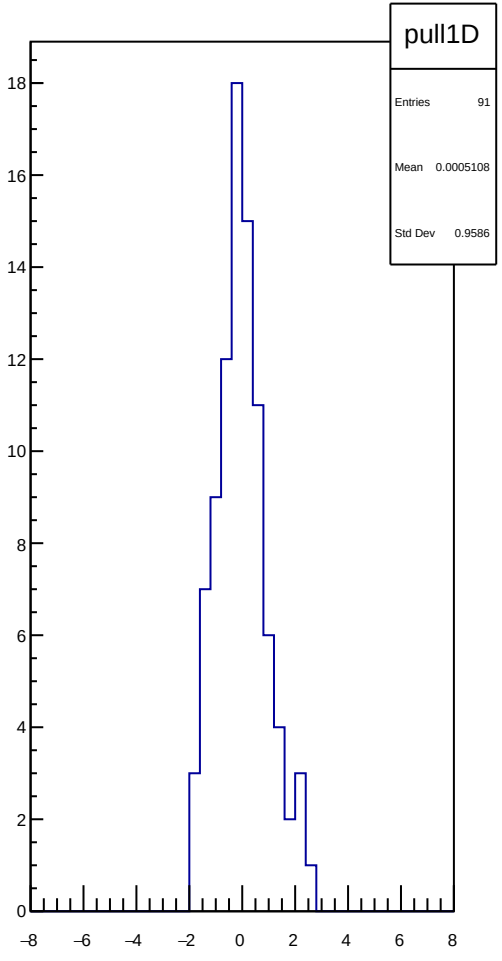

pull1D
Entries 91
Mean 1.361
Std Dev 4.563
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

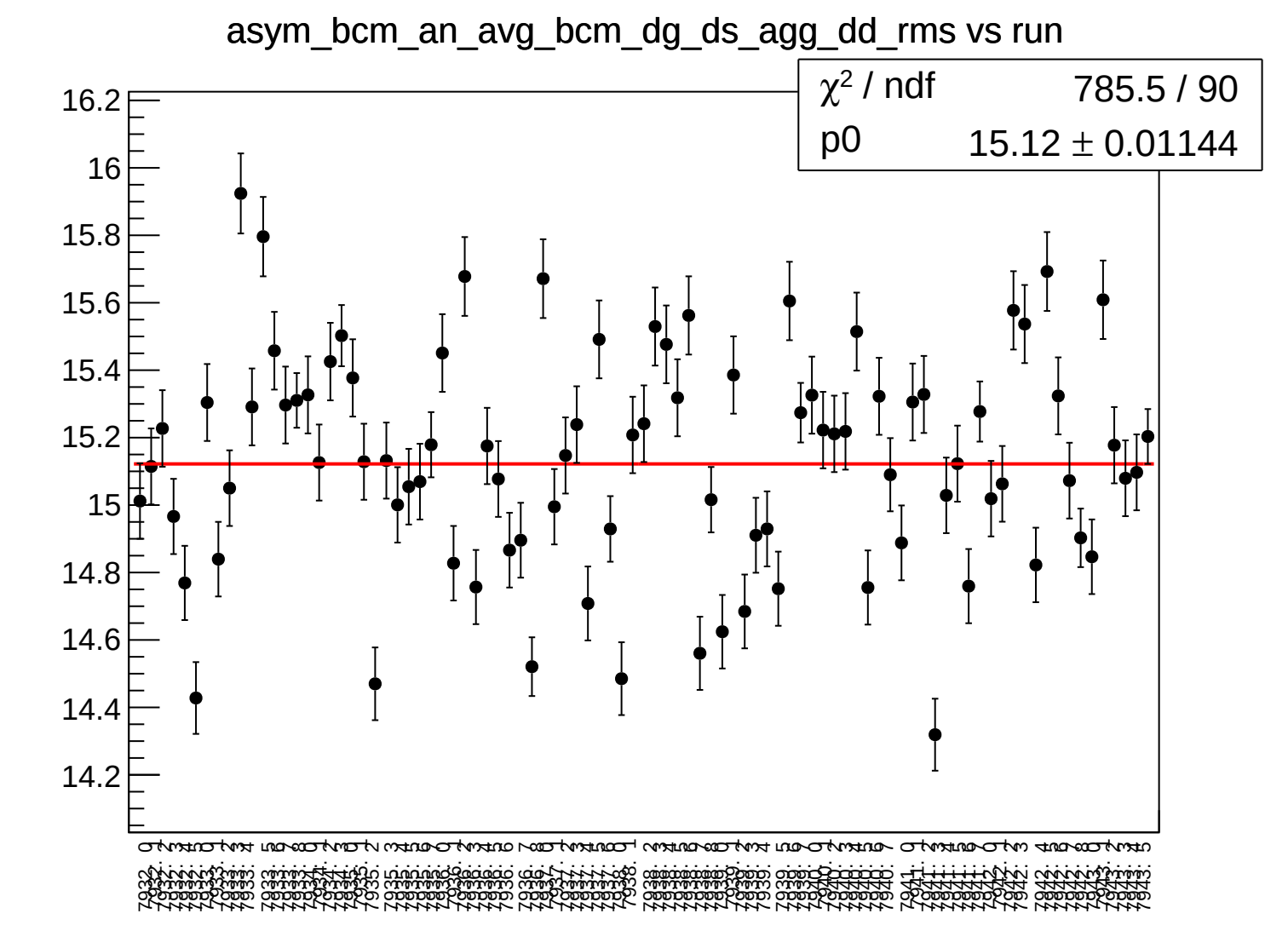

yield_atr2_rms vs run
χ² / ndf 5.708e+04 / 90
p0 0.0006768 ± 5.204e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

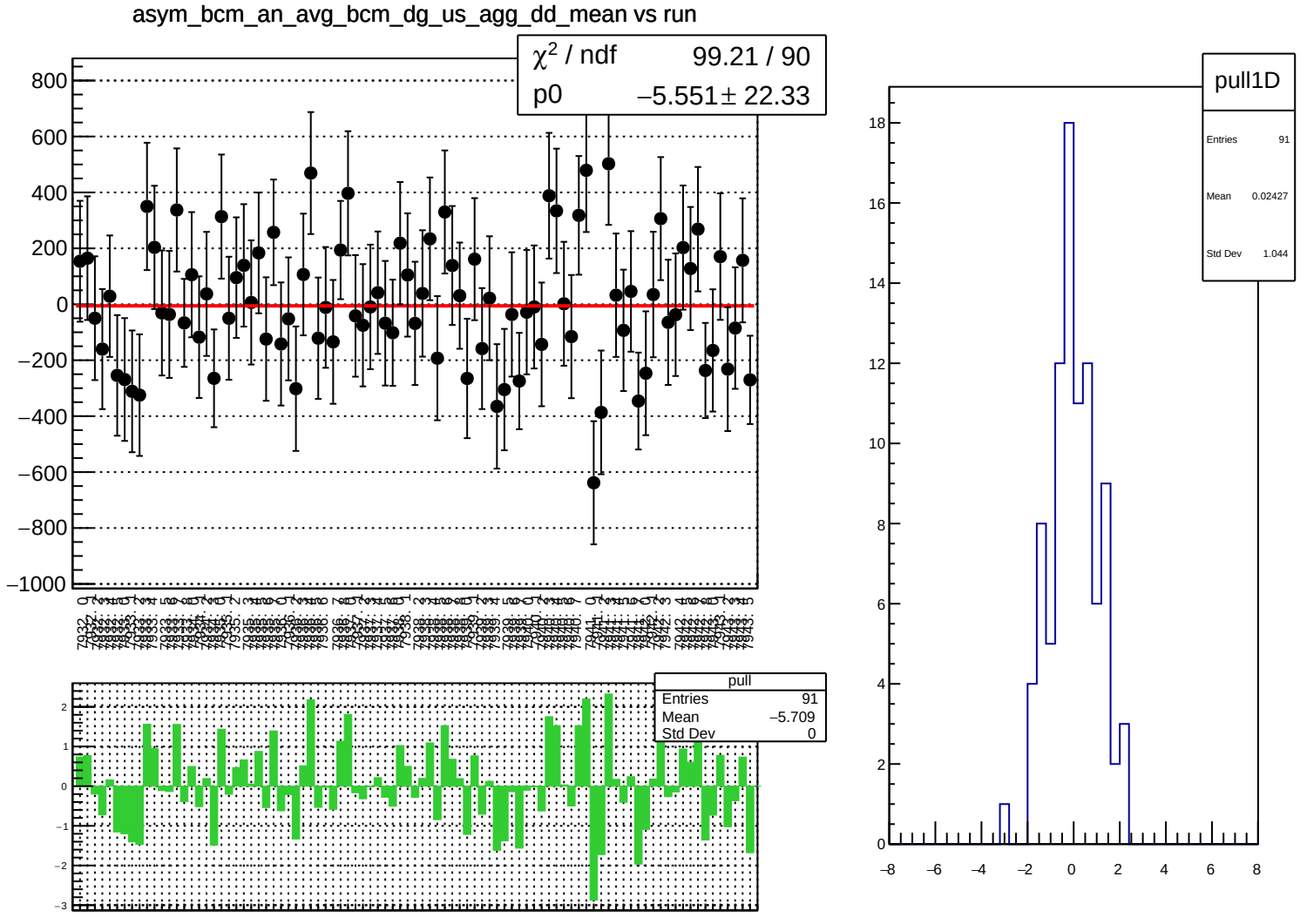

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.23 / 90
p0 241.3 ± 165.9
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 688.4
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.002681
Std Dev 0.4596
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

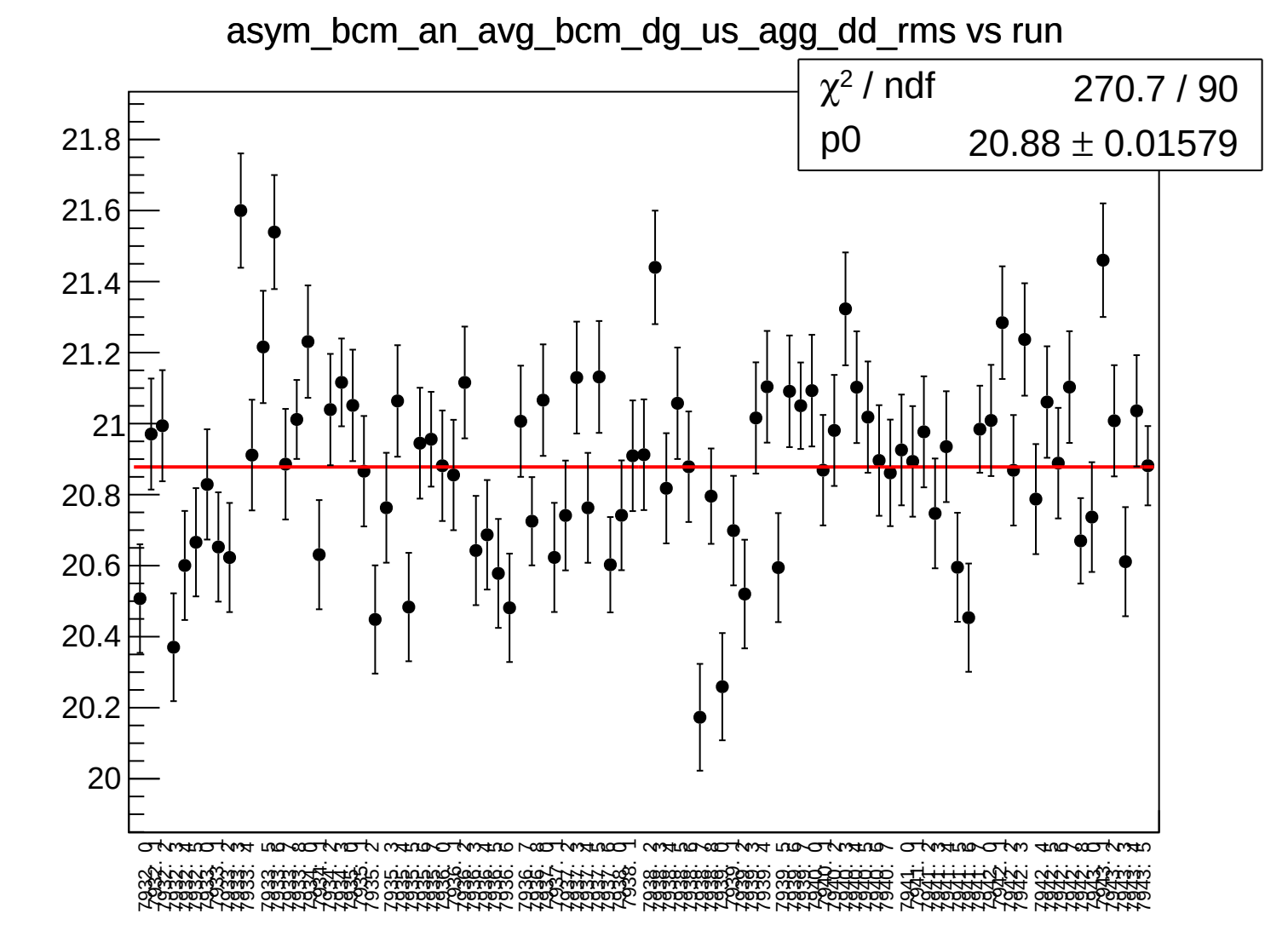

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1891 / 90
p0 155 ± 0.1173
180
175
170
165
160
155
150
145

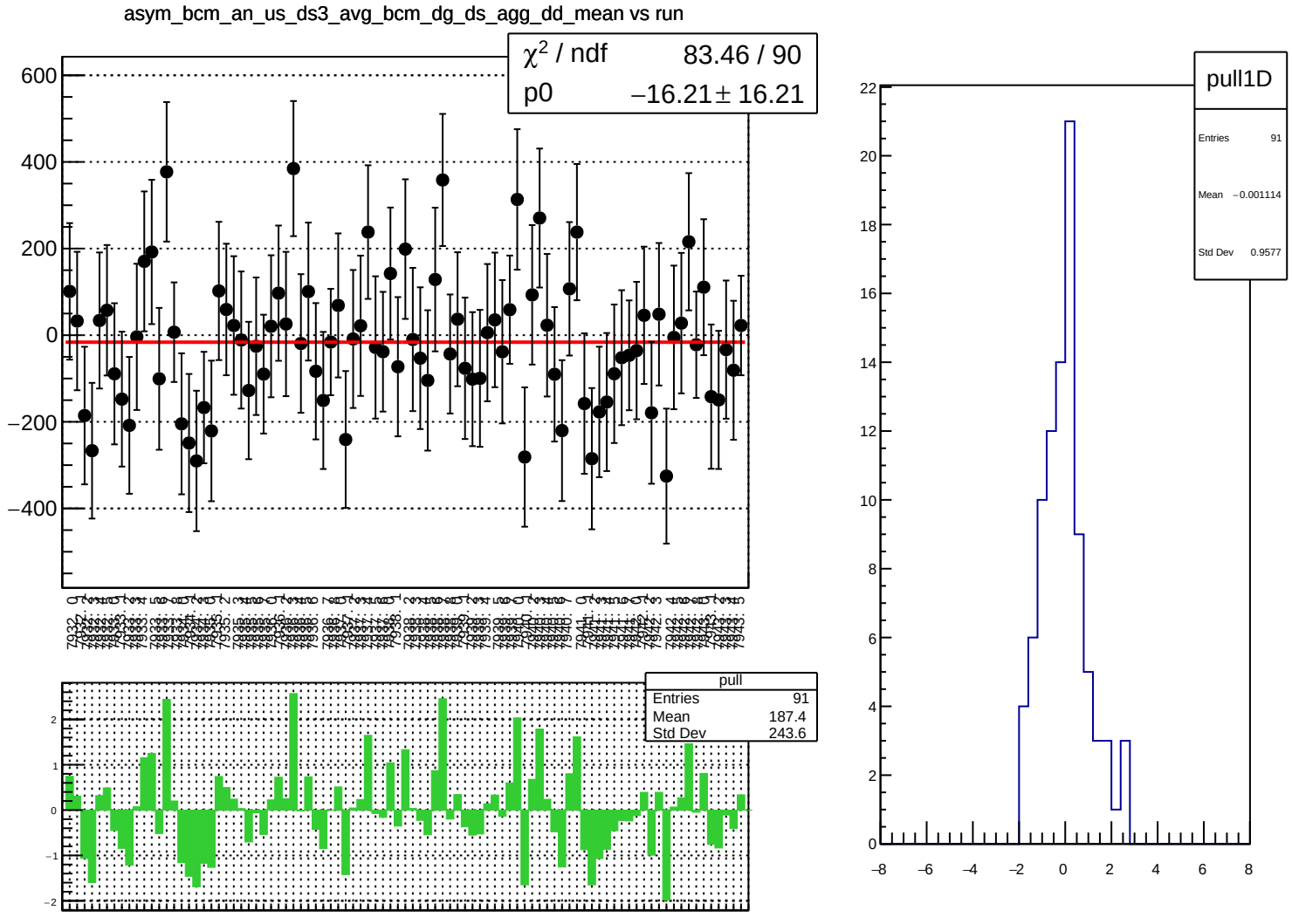

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.63 / 90
p0 −19.88 ± 16.18
pull
Entries 91
Mean 111.3
Std Dev 0

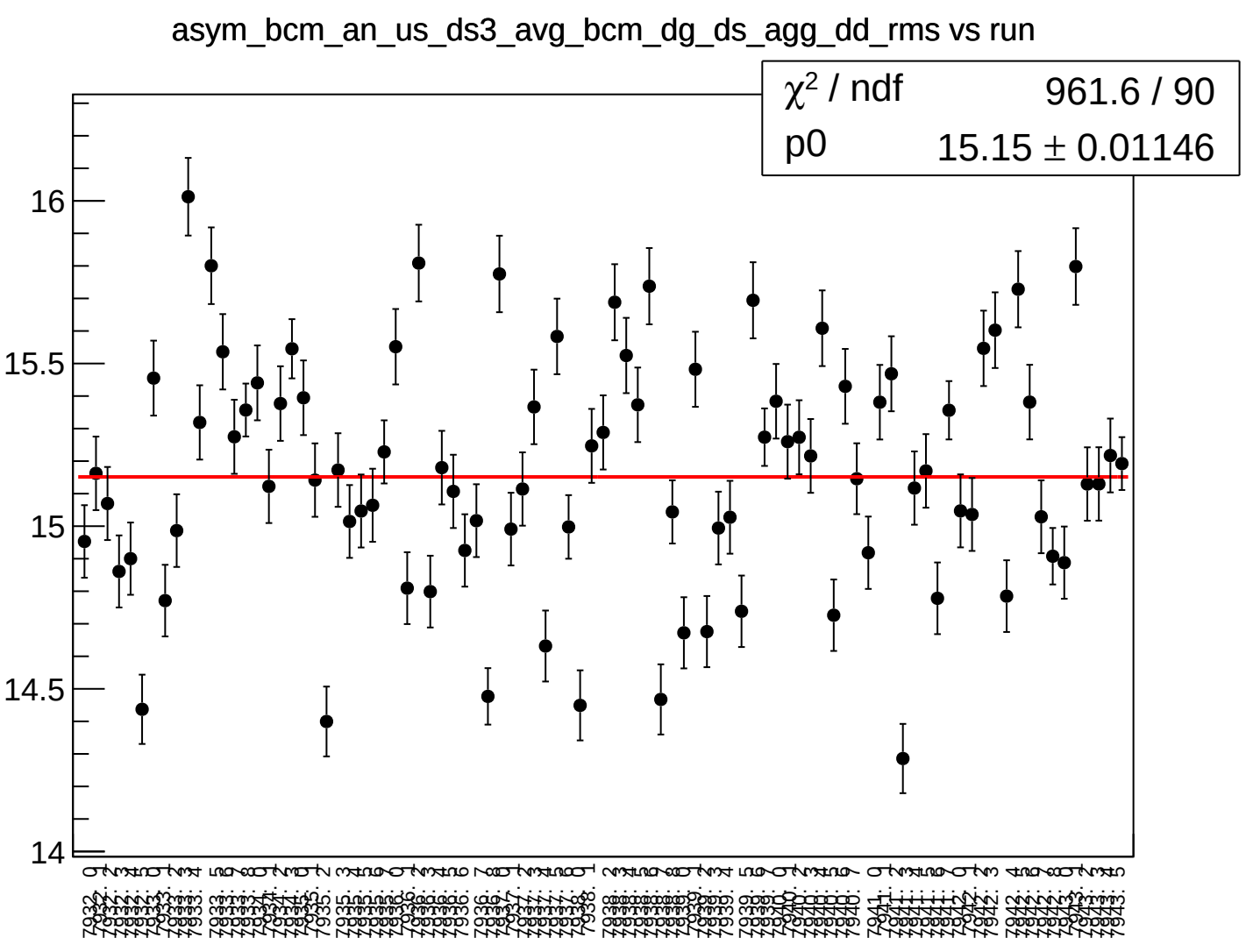

pull1D
Entries 91
Mean 0.0005108
Std Dev 0.9586

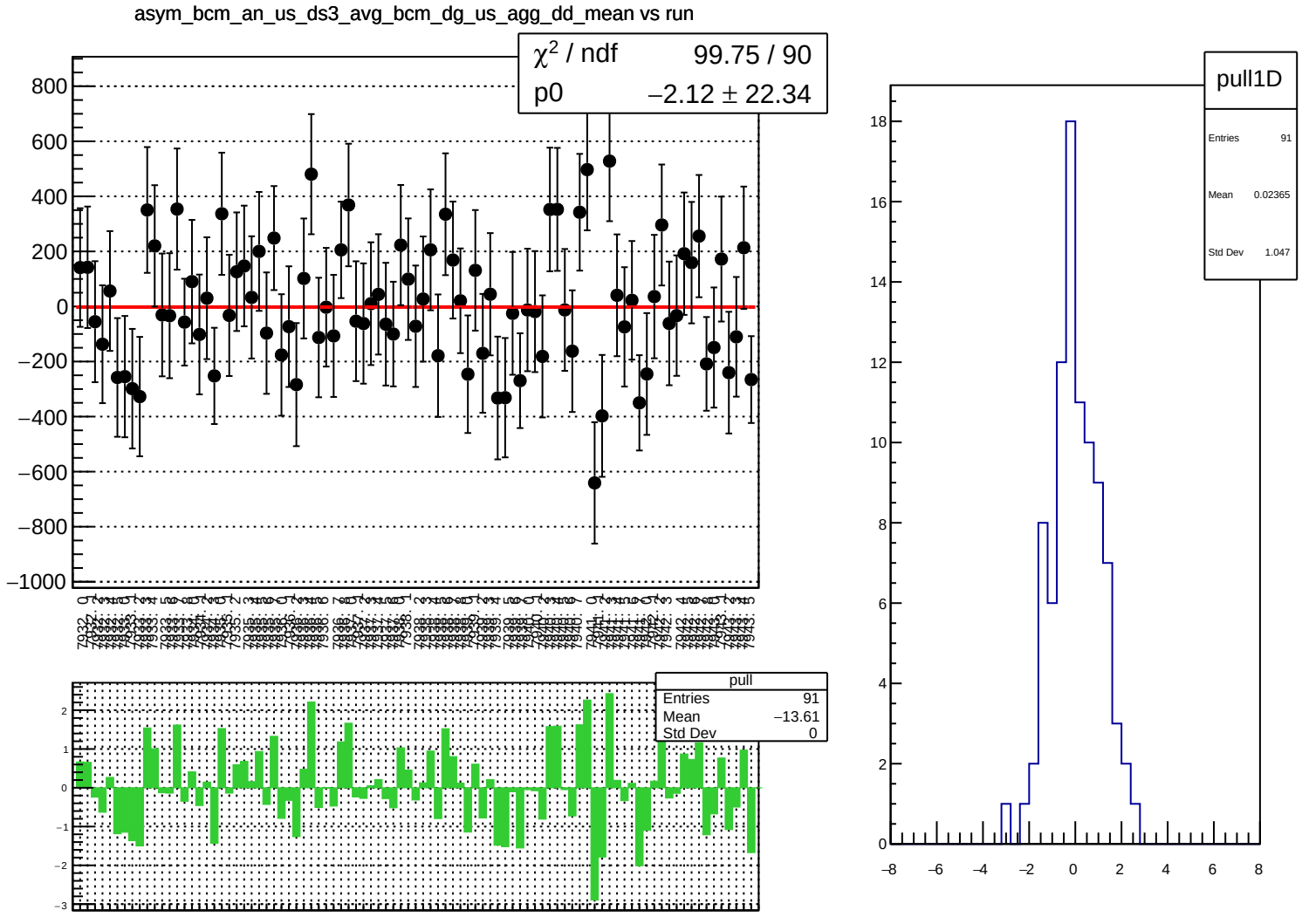

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 785.5 / 90
p0 15.12 ± 0.01144
16.2
16
15.8
15.6
15.4
15.2
15
14.8
14.6
14.4
14.2

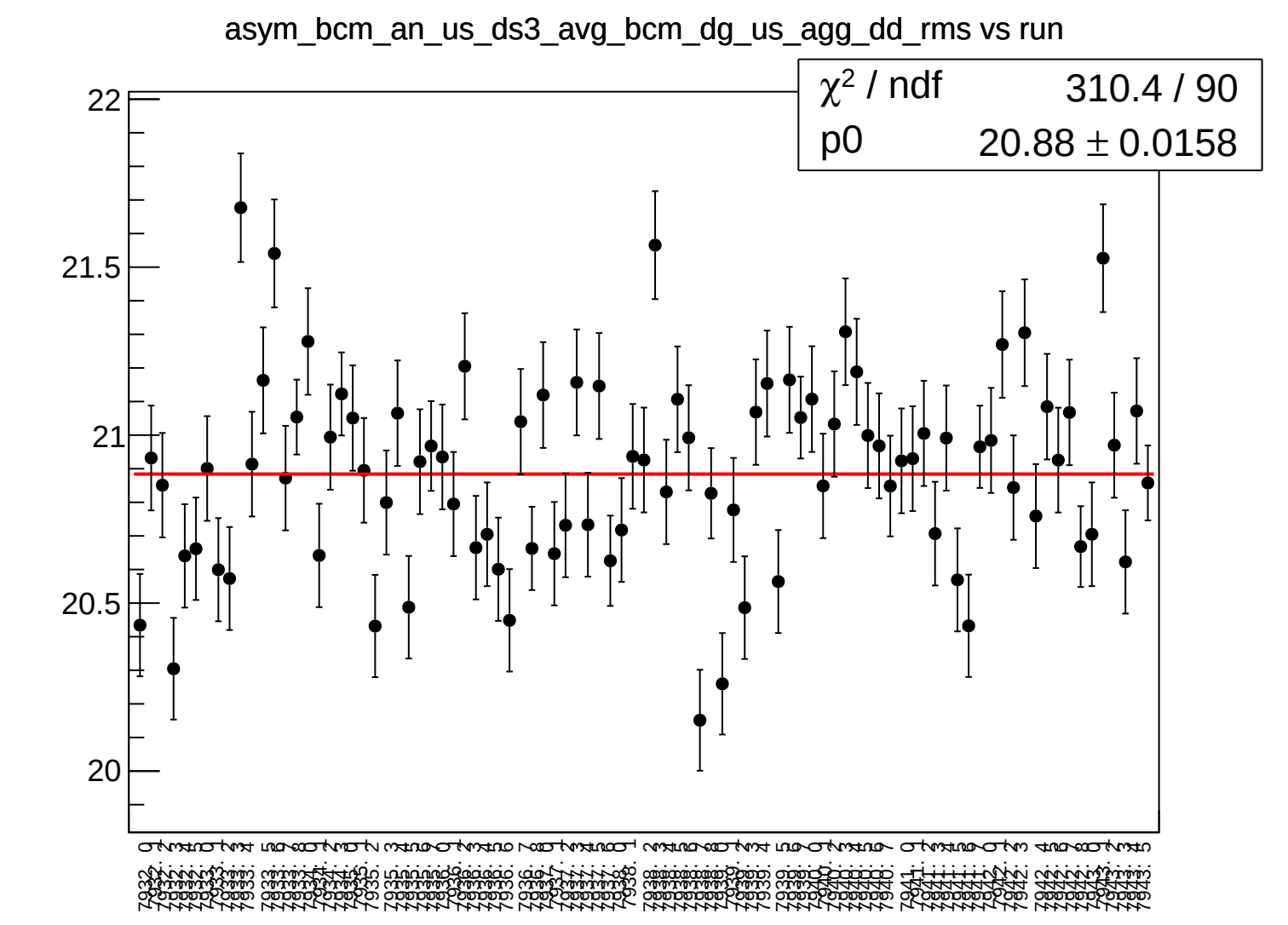

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 99.21 / 90
p0 −5.551 ± 22.33
pull
Entries 91
Mean −5.709
Std Dev 0
pull1D
Entries 91
Mean 0.02427
Std Dev 1.044

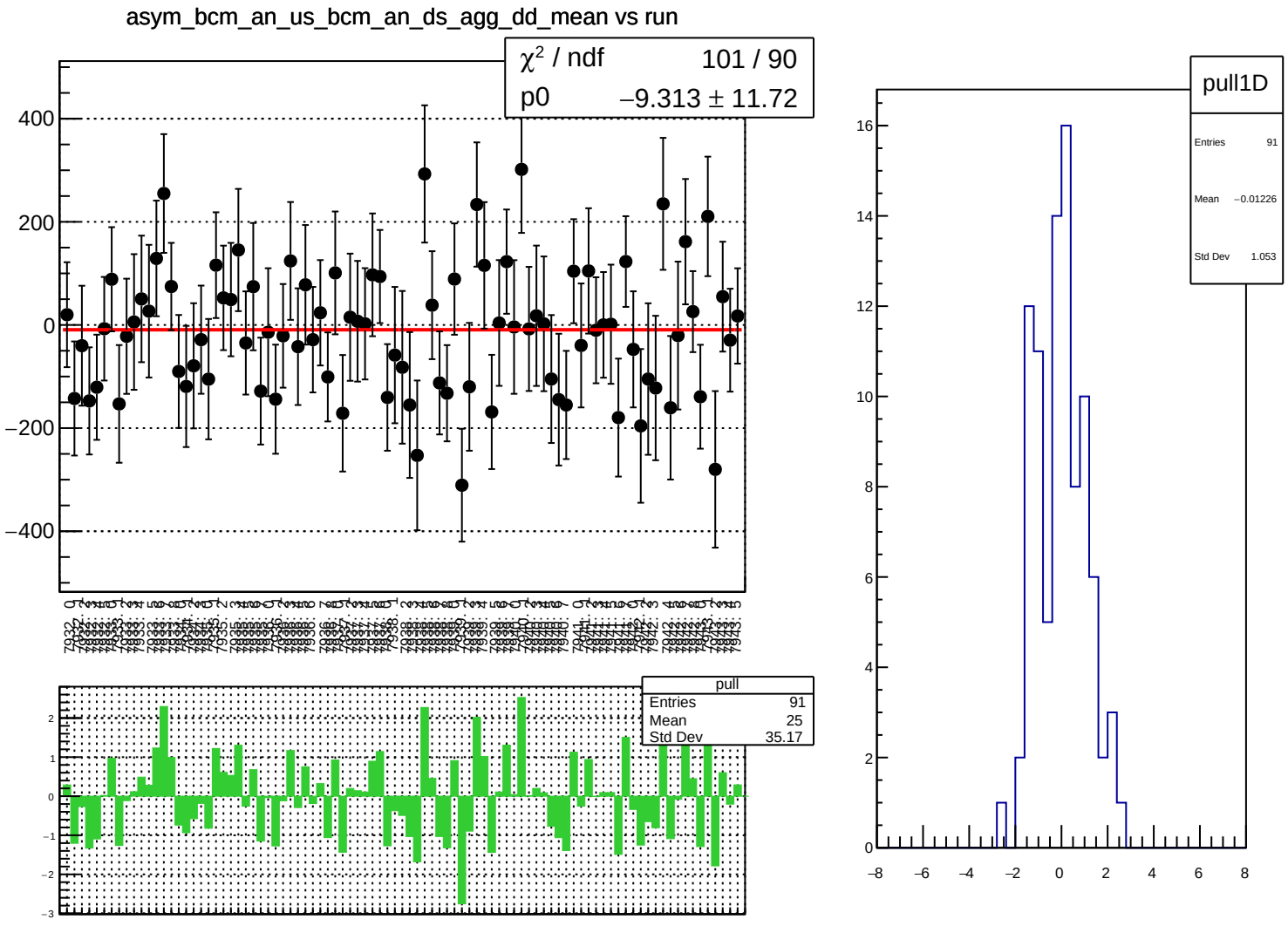

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 270.7 / 90
p0 20.88 ± 0.01579
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2
20

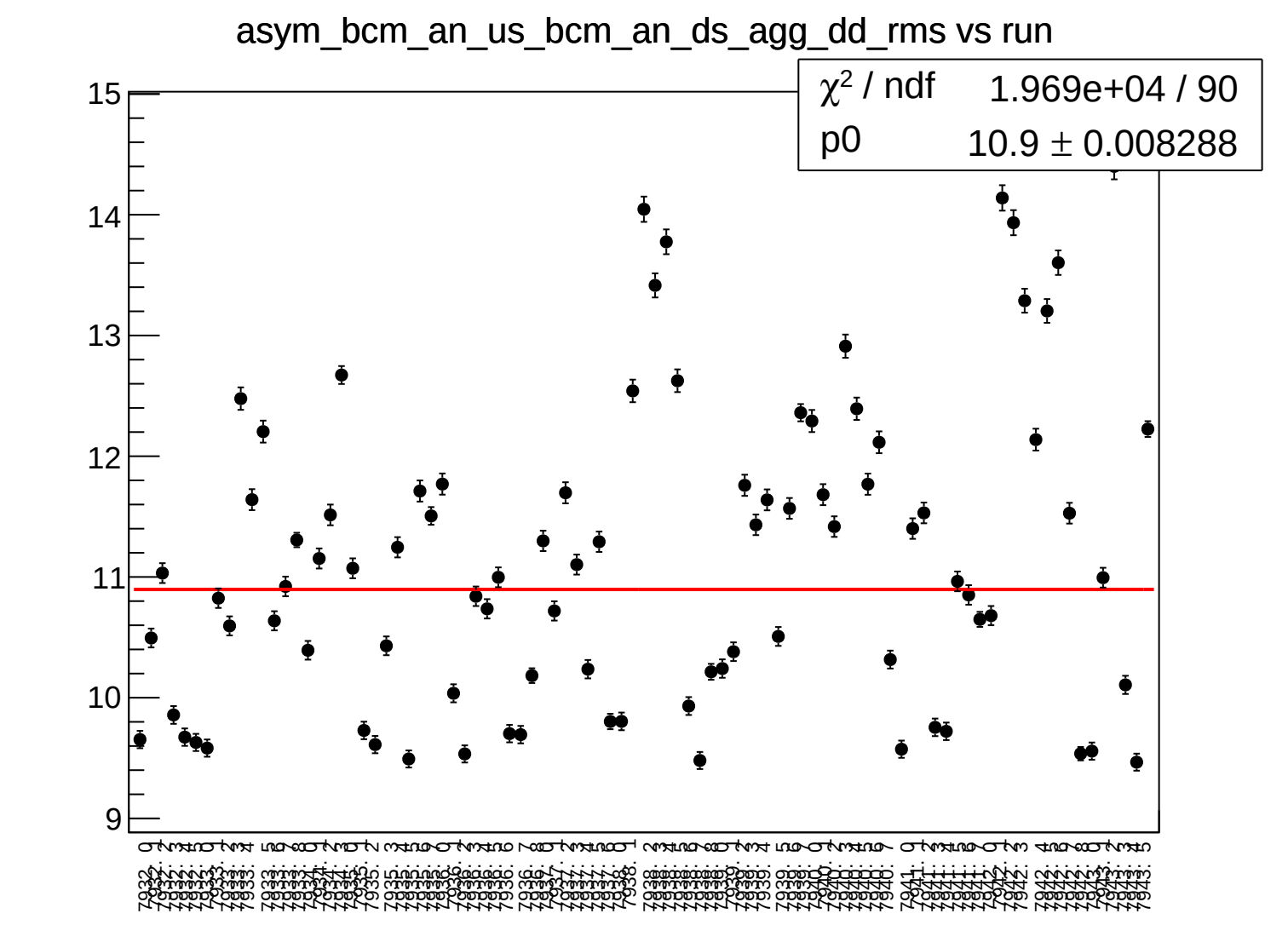

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.46 / 90
p0 −16.21 ± 16.21
pull
Entries 91
Mean 187.4
Std Dev 243.6
pull1D
Entries 91
Mean −0.001114
Std Dev 0.9577

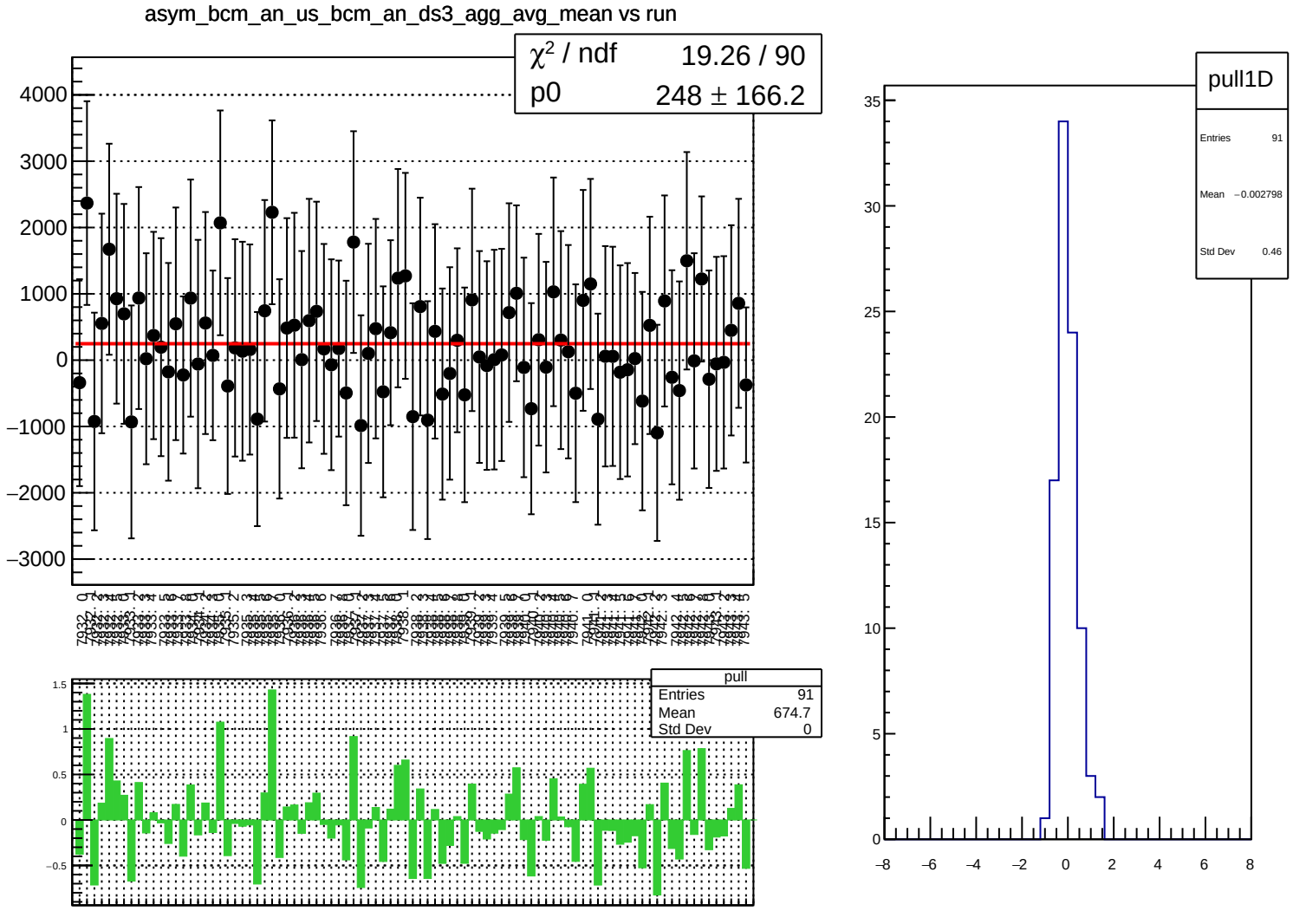

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 961.6 / 90
p0 15.15 ± 0.01146
16
15.5
15
14.5
14

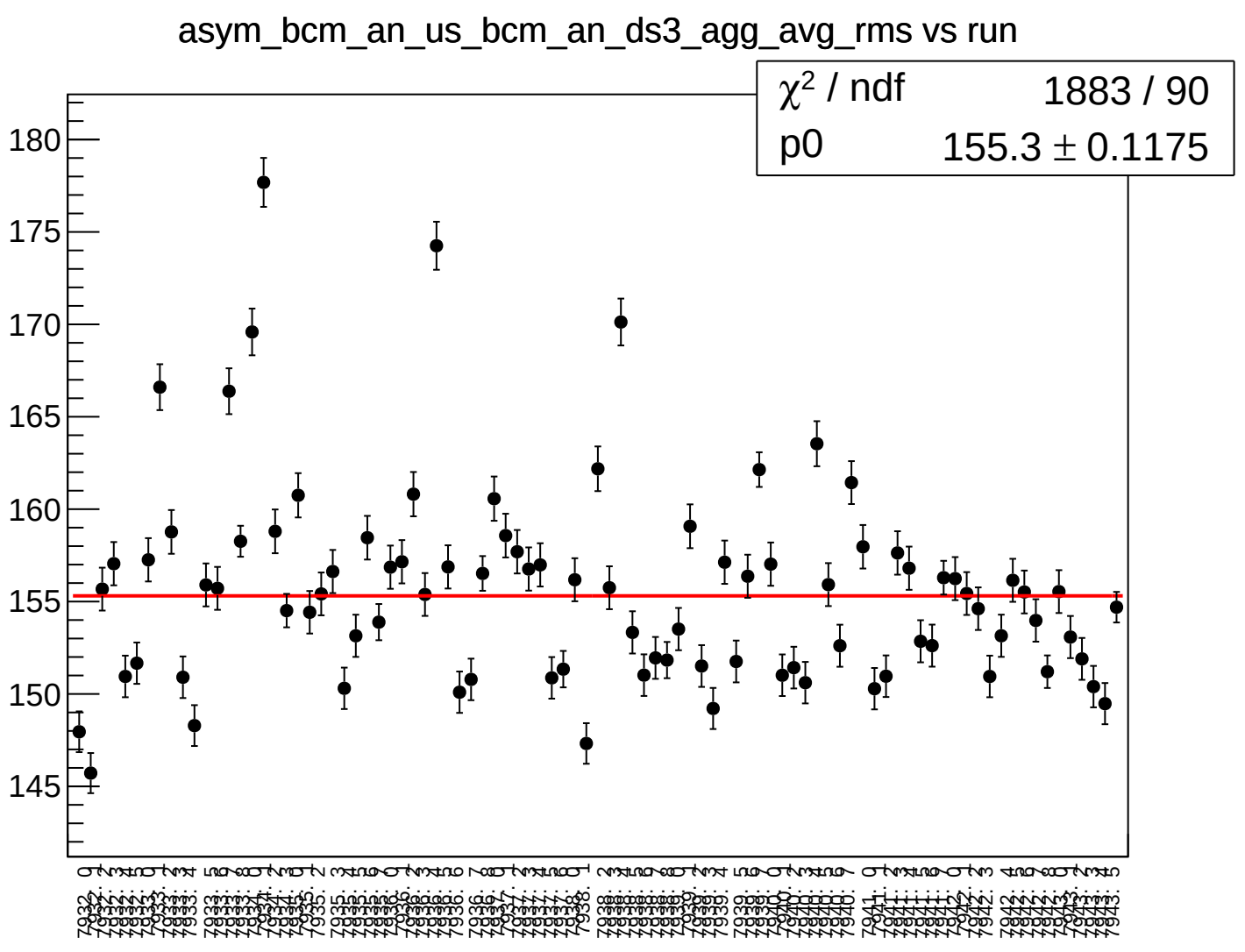

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 99.75 / 90
p0 −2.12 ± 22.34
pull
Entries 91
Mean −13.61
Std Dev 0
pull1D
Entries 91
Mean 0.02365
Std Dev 1.047

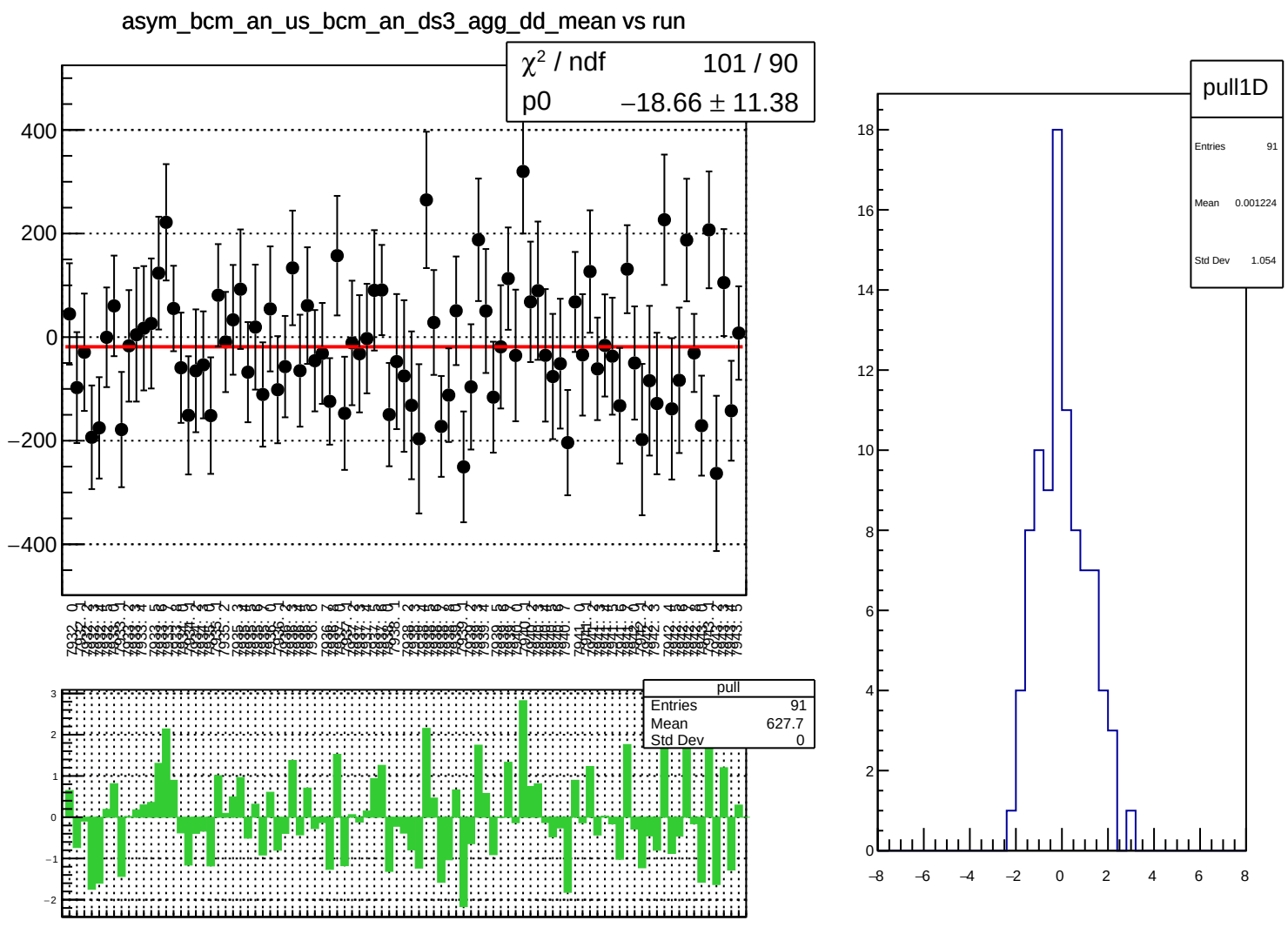

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 310.4 / 90
p0 20.88 ± 0.0158
22
21.5
21
20.5
20

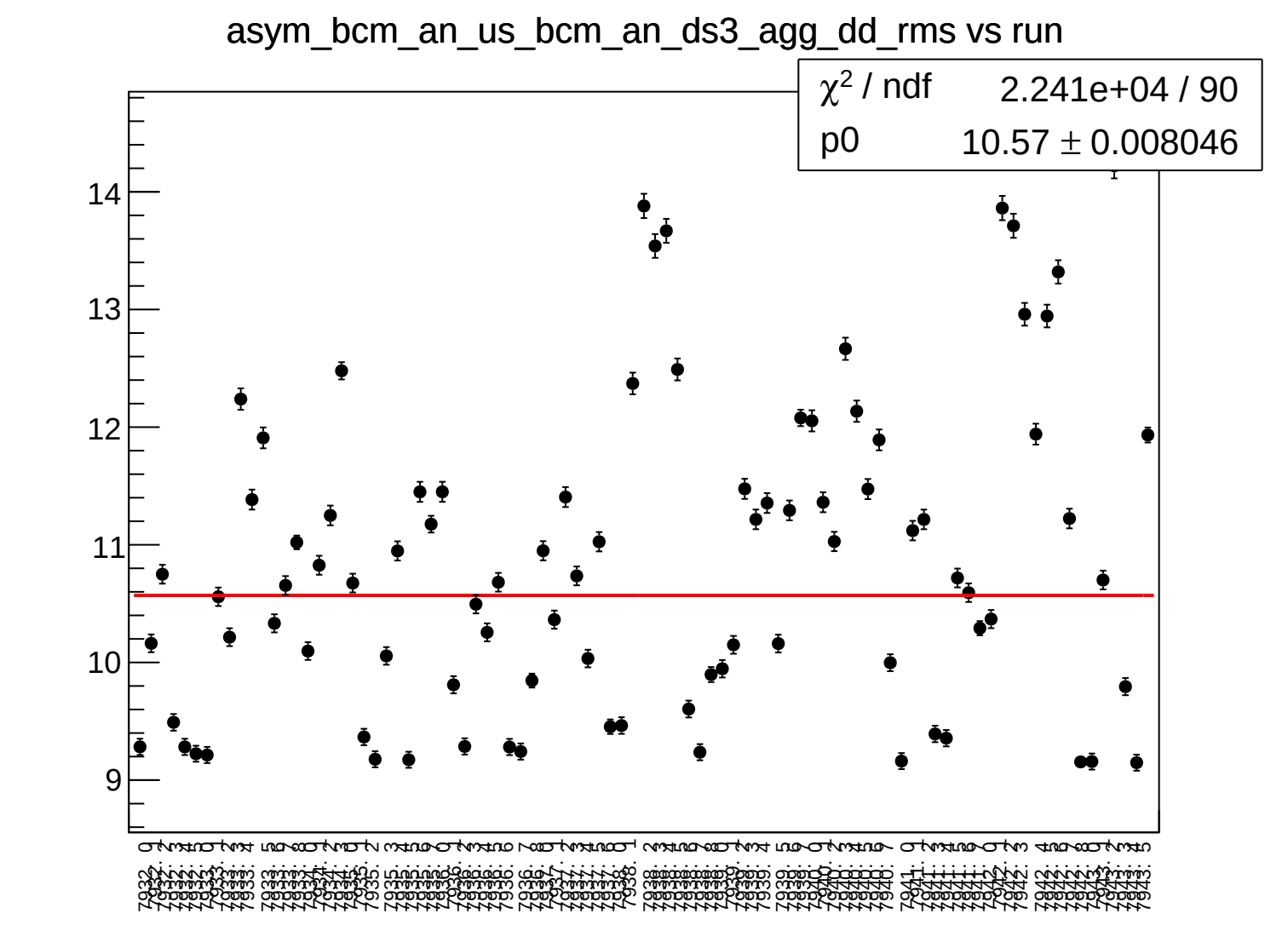

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 101 / 90
p0 −9.313 ± 11.72
400
200
0
−200
−400
pull
Entries 91
Mean 25
Std Dev 35.17
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01226
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

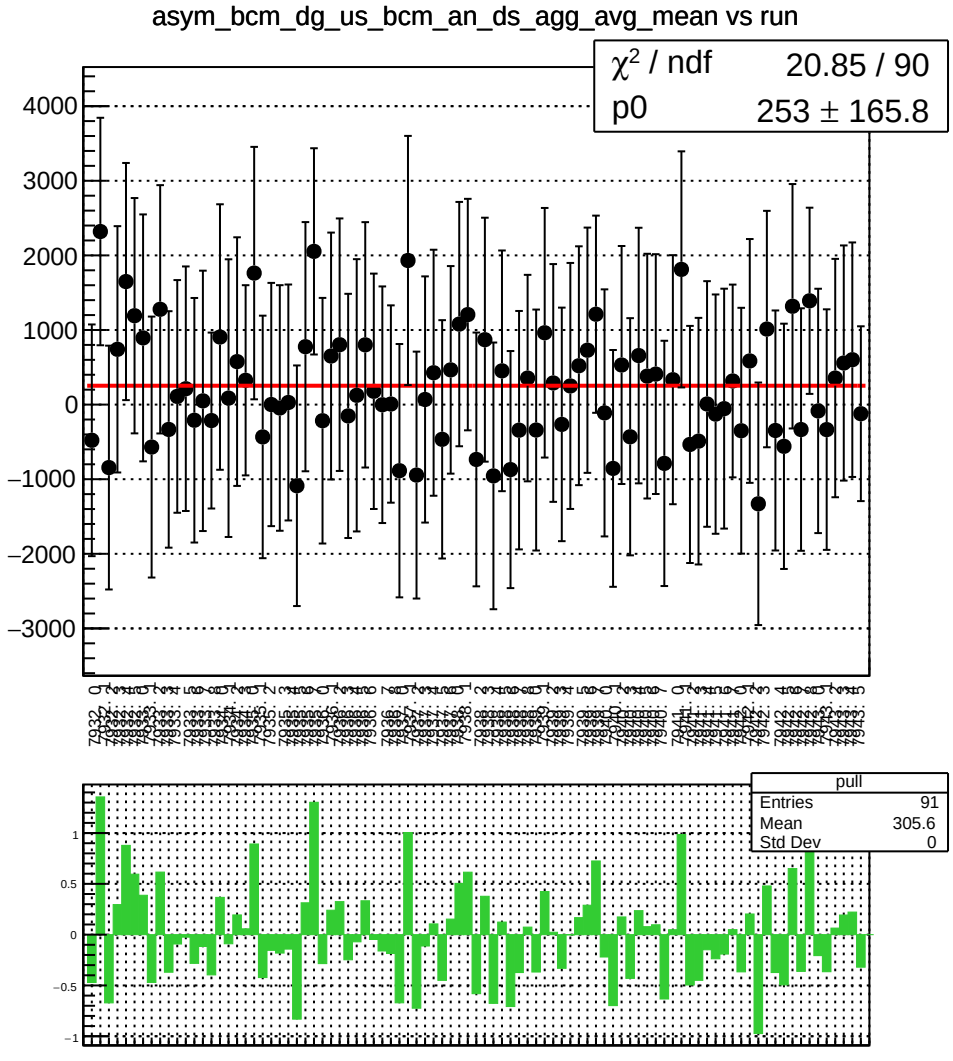

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.969e+04 / 90
p0 10.9 ± 0.008288
15
14
13
12
11
10
9

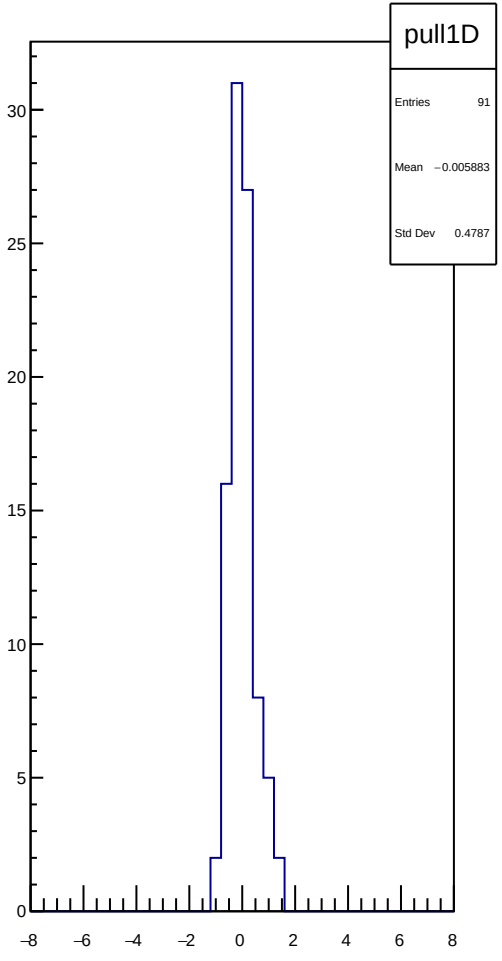

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 19.26 / 90
p0 248 ± 166.2
pull
Entries 91
Mean 674.7
Std Dev 0
pull1D
Entries 91
Mean −0.002798
Std Dev 0.46

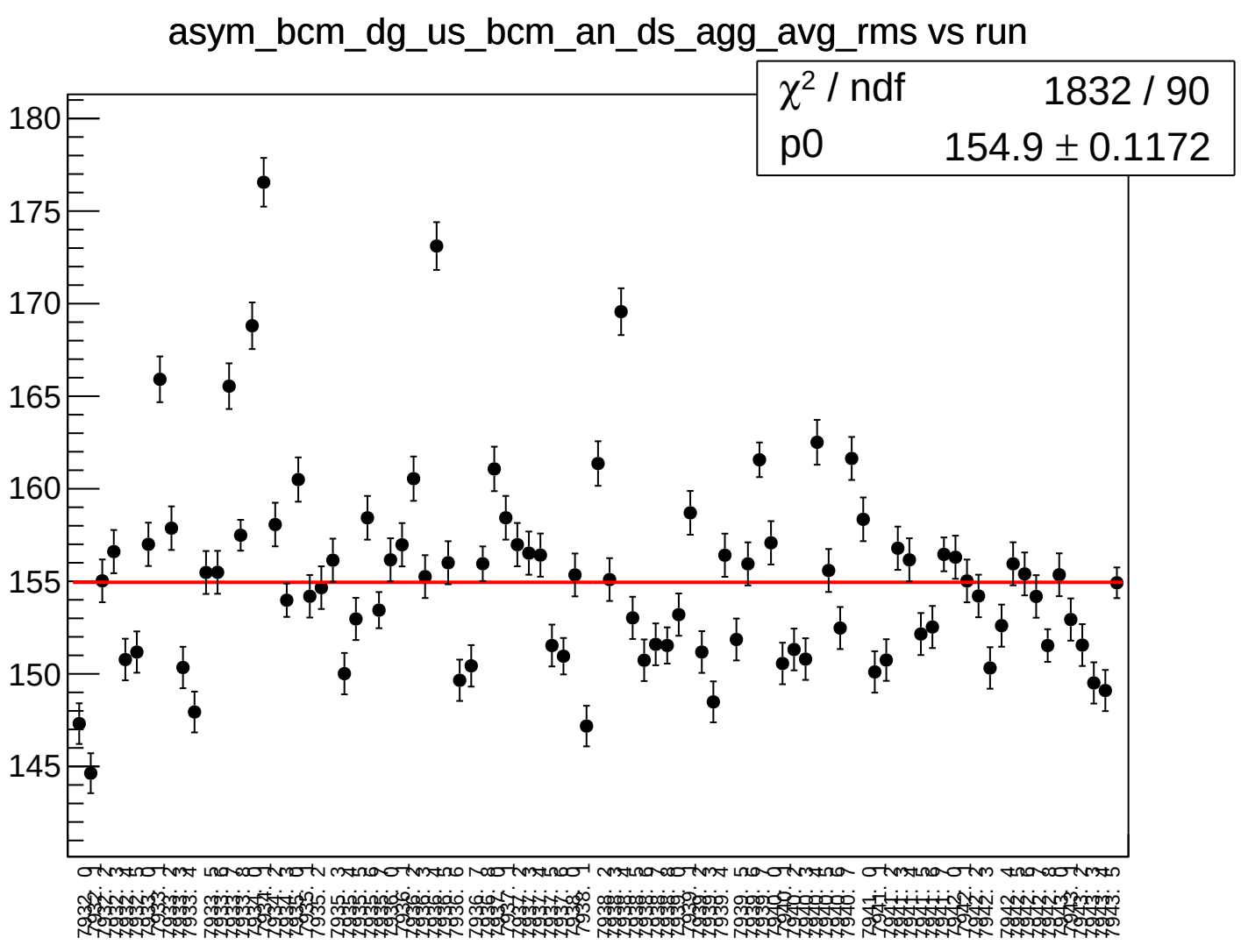

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1883 / 90
p0 155.3 ± 0.1175
180
175
170
165
160
155
150
145

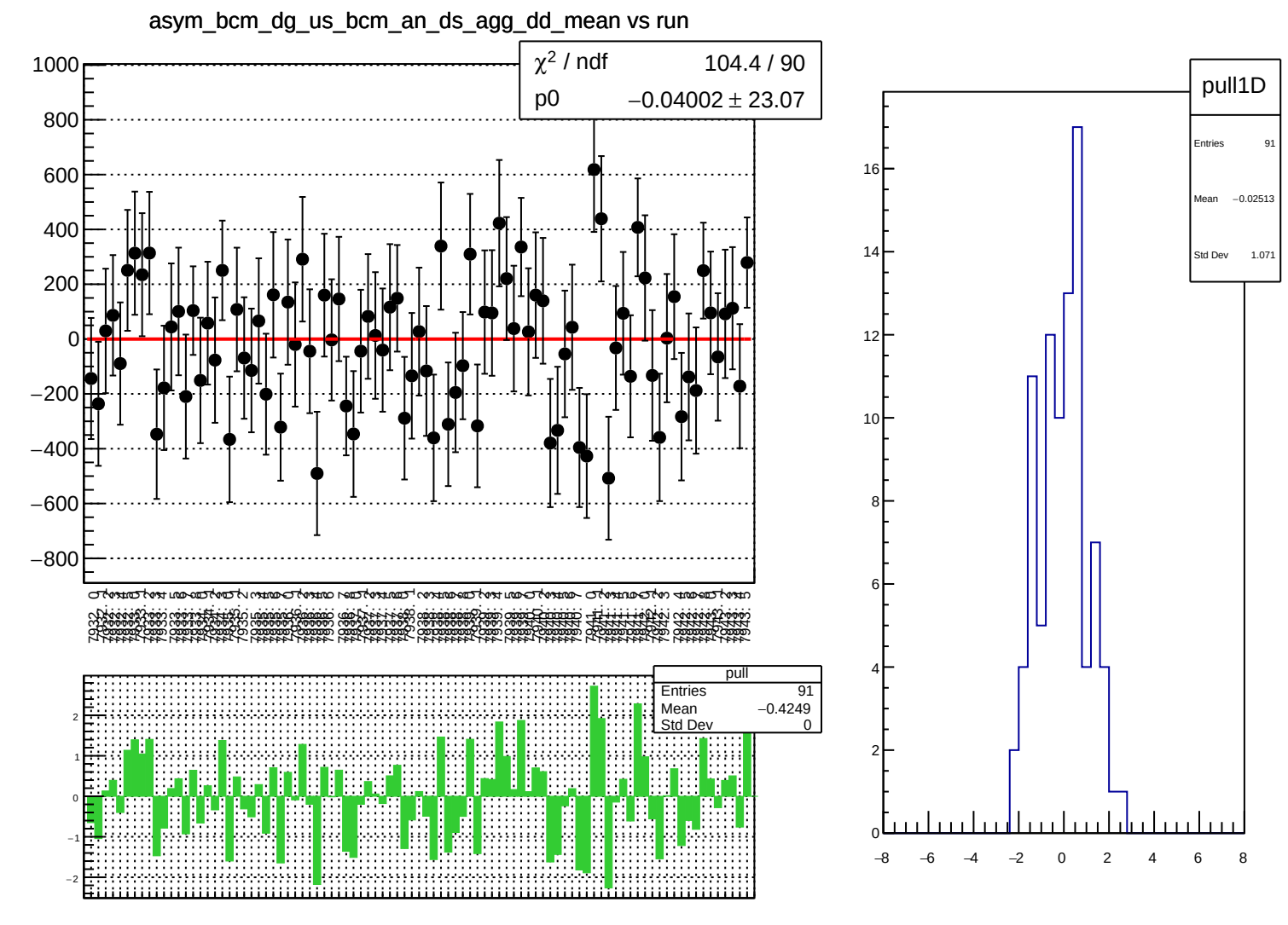

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 101 / 90
p0 −18.66 ± 11.38
400
200
0
−200
−400
pull
Entries 91
Mean 627.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.001224
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

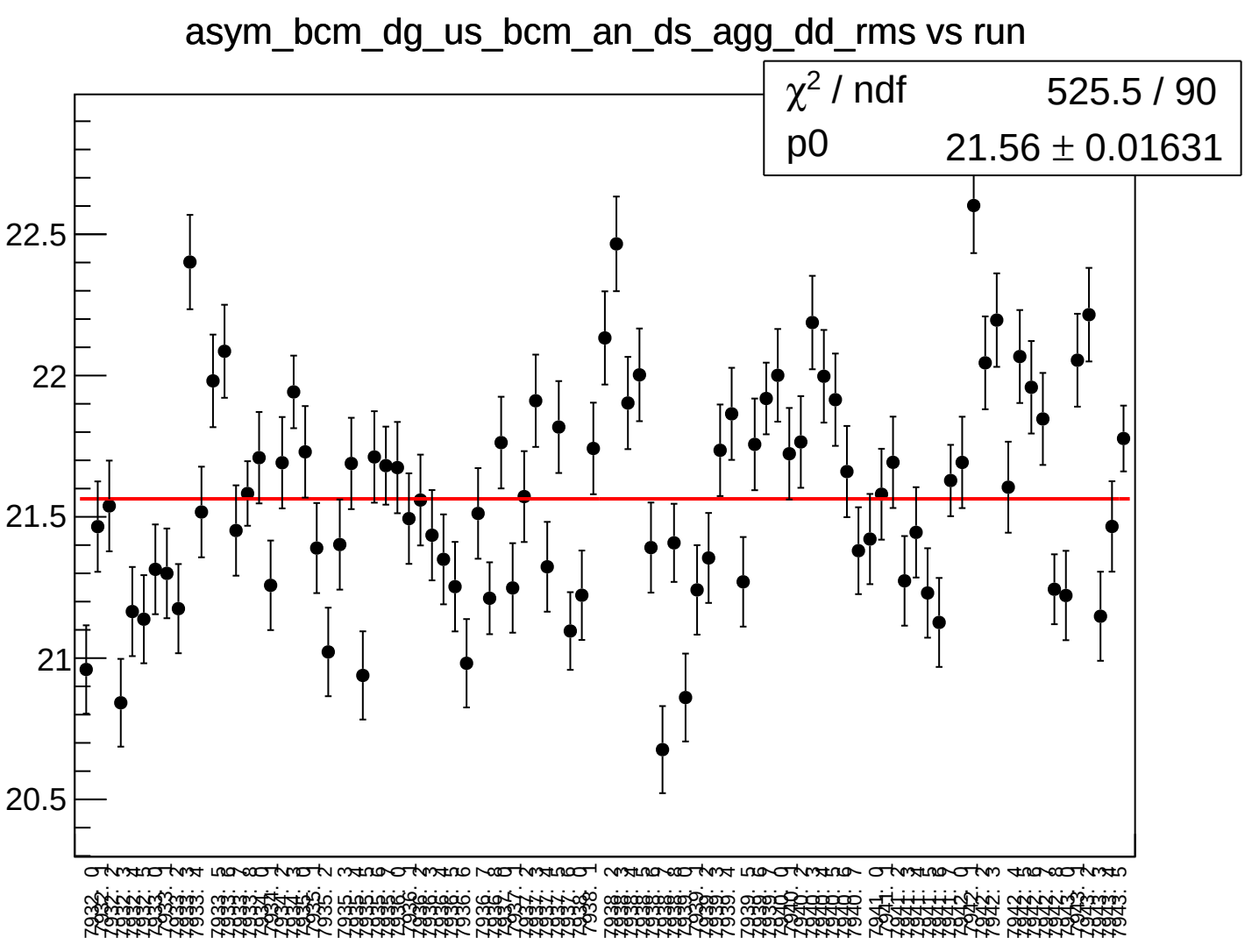

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.241e+04 / 90
p0 10.57 ± 0.008046
14
13
12
11
10
9

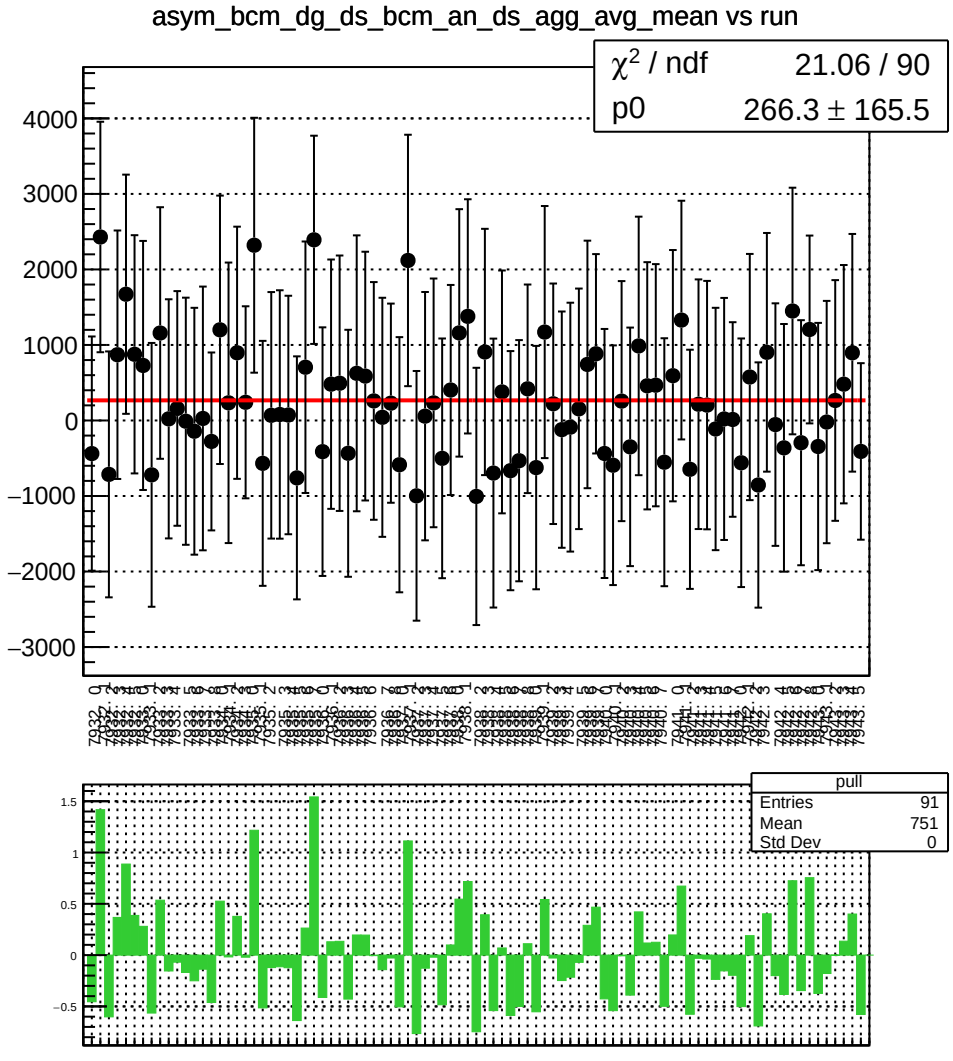

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.85 / 90
p0 253 ± 165.8
pull
Entries 91
Mean 305.6
Std Dev 0

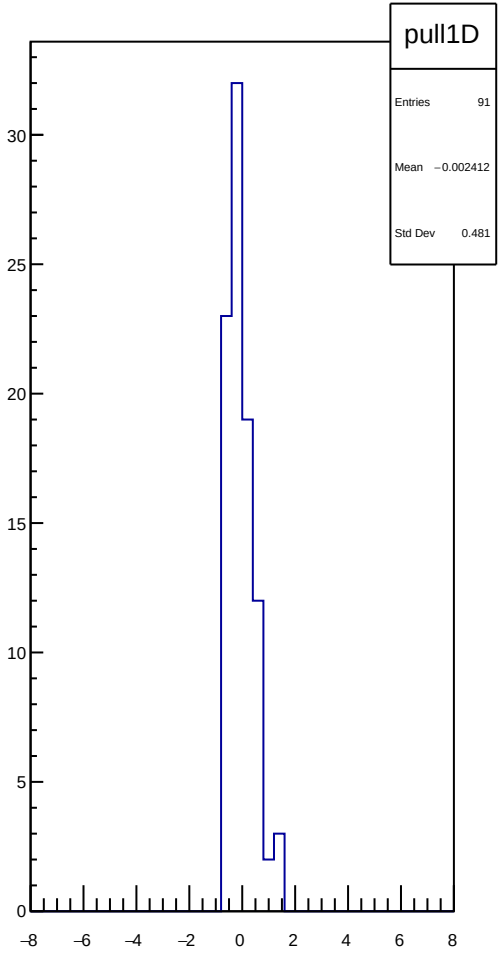

pull1D
Entries 91
Mean −0.005883
Std Dev 0.4787

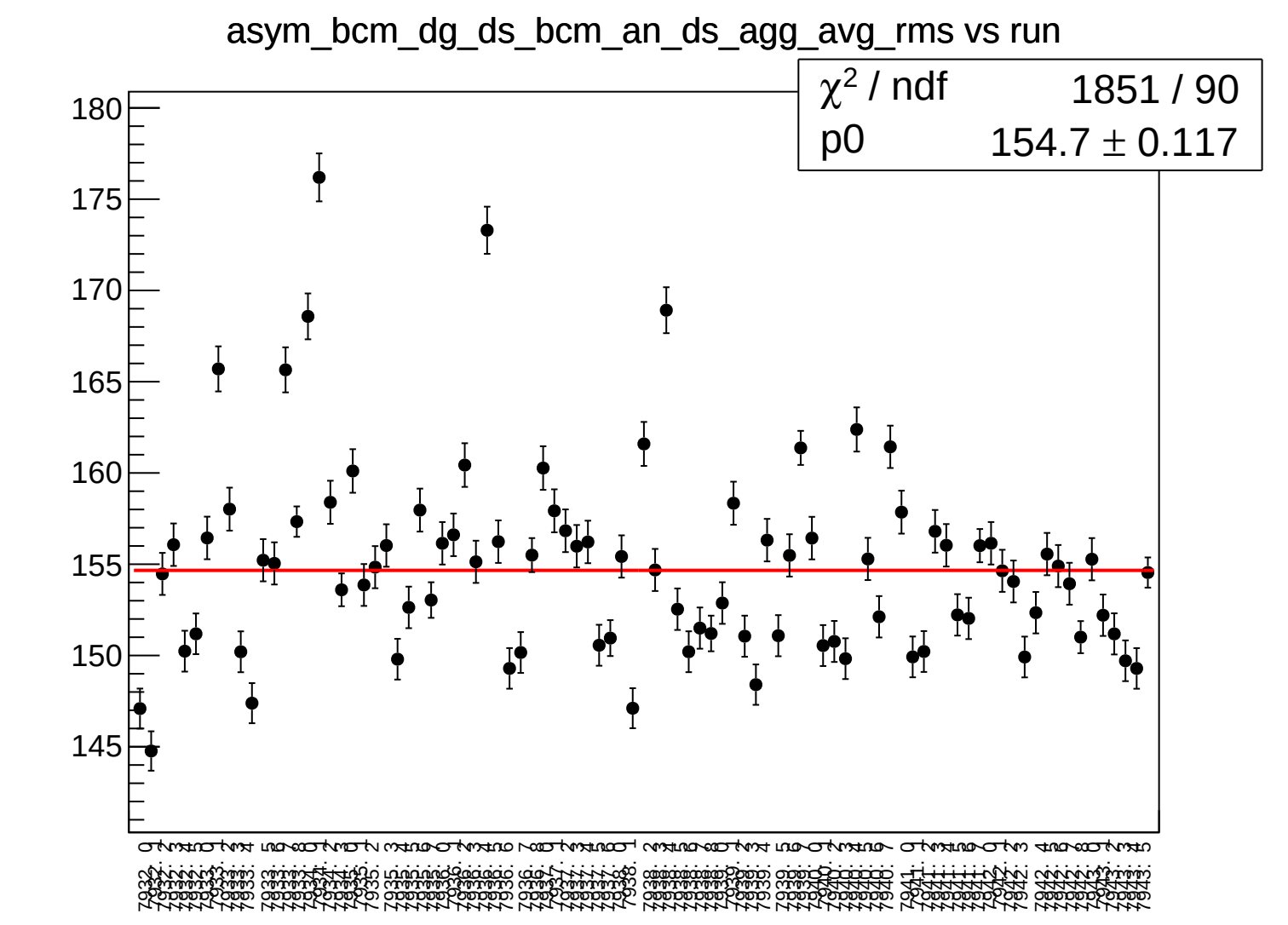

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1832 / 90
p0 154.9 ± 0.1172
180
175
170
165
160
155
150
145

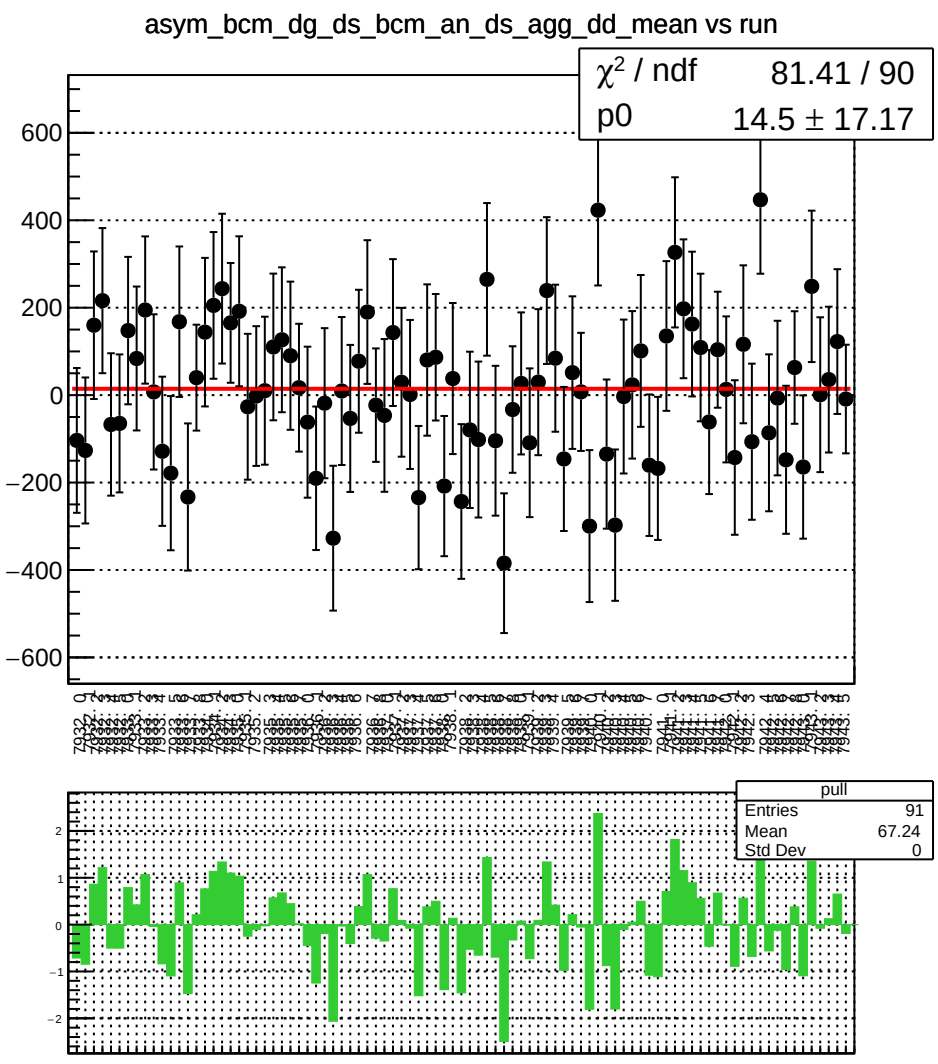

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 104.4 / 90
p0 −0.04002 ± 23.07
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −0.4249
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02513
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

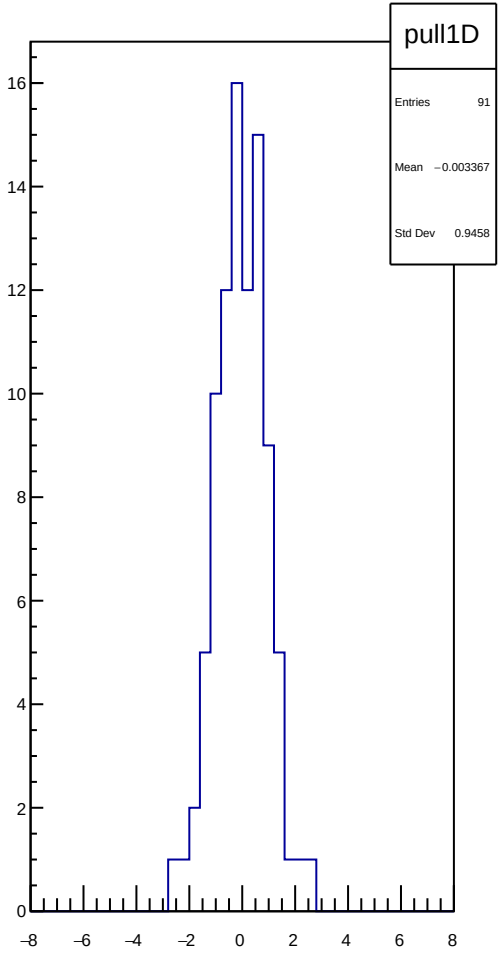

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 525.5 / 90
p0 21.56 ± 0.01631
22.5
22
21.5
21
20.5

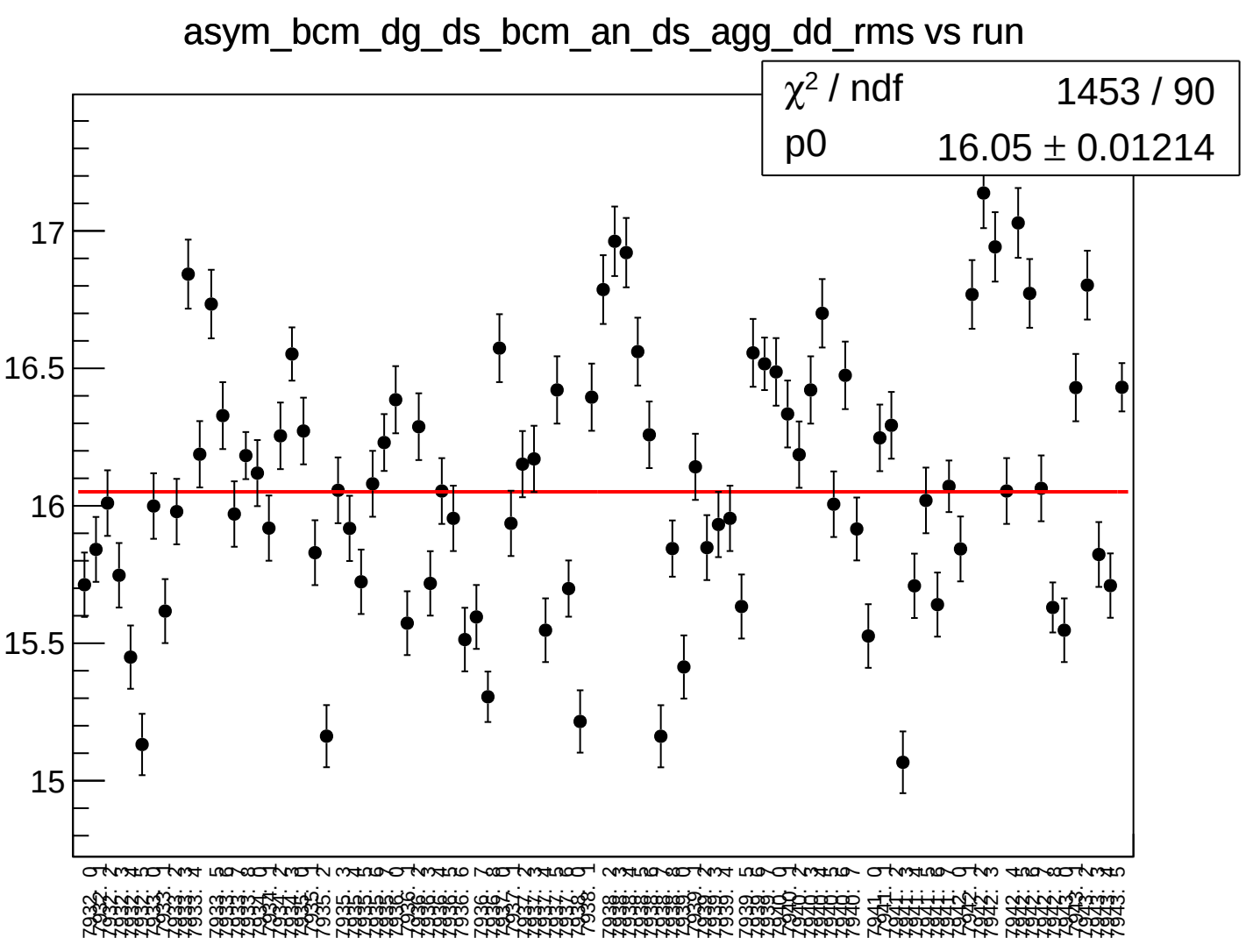

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.06 / 90
p0 266.3 ± 165.5
pull
Entries 91
Mean 751
Std Dev 0

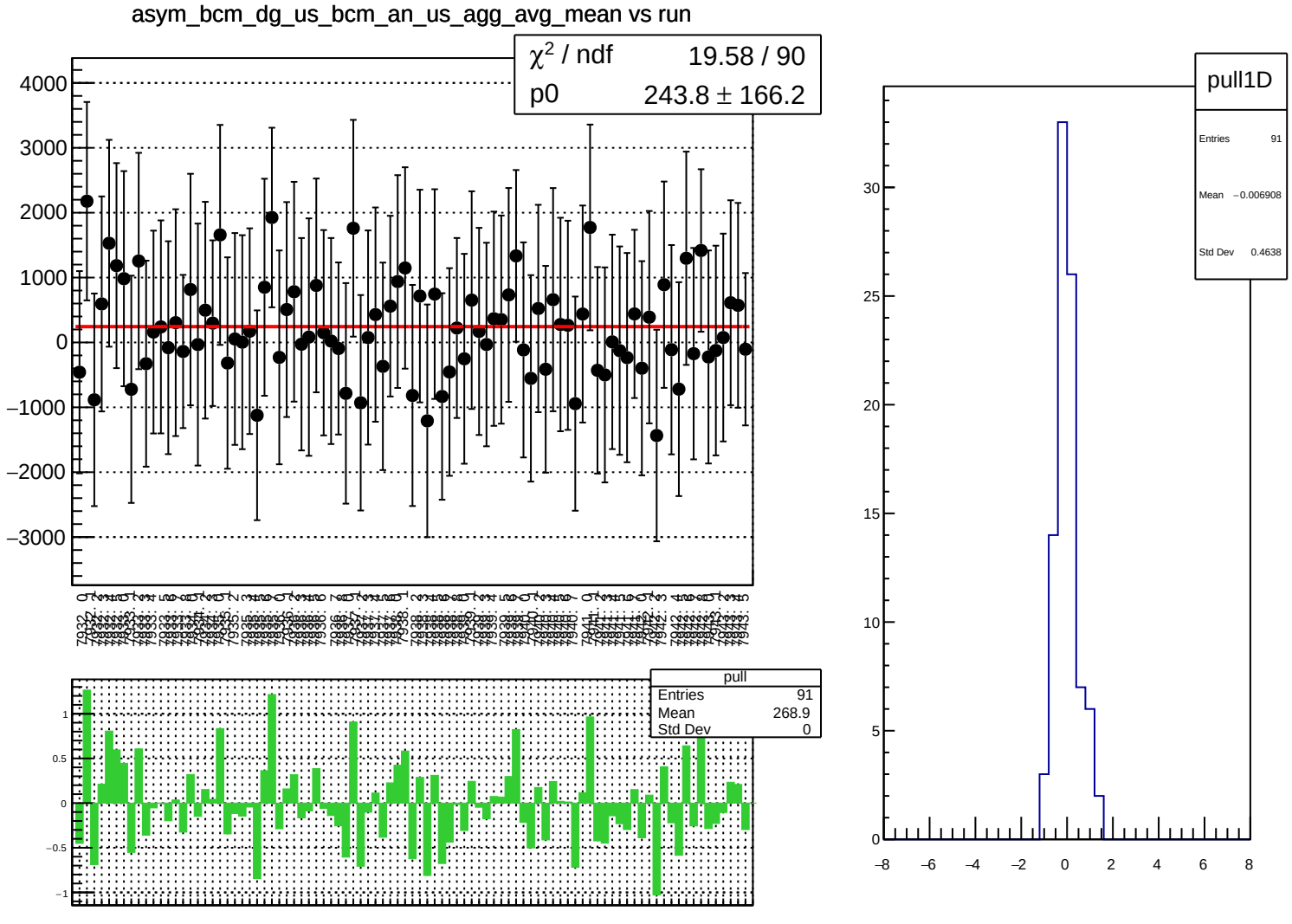

pull1D
Entries 91
Mean −0.002412
Std Dev 0.481

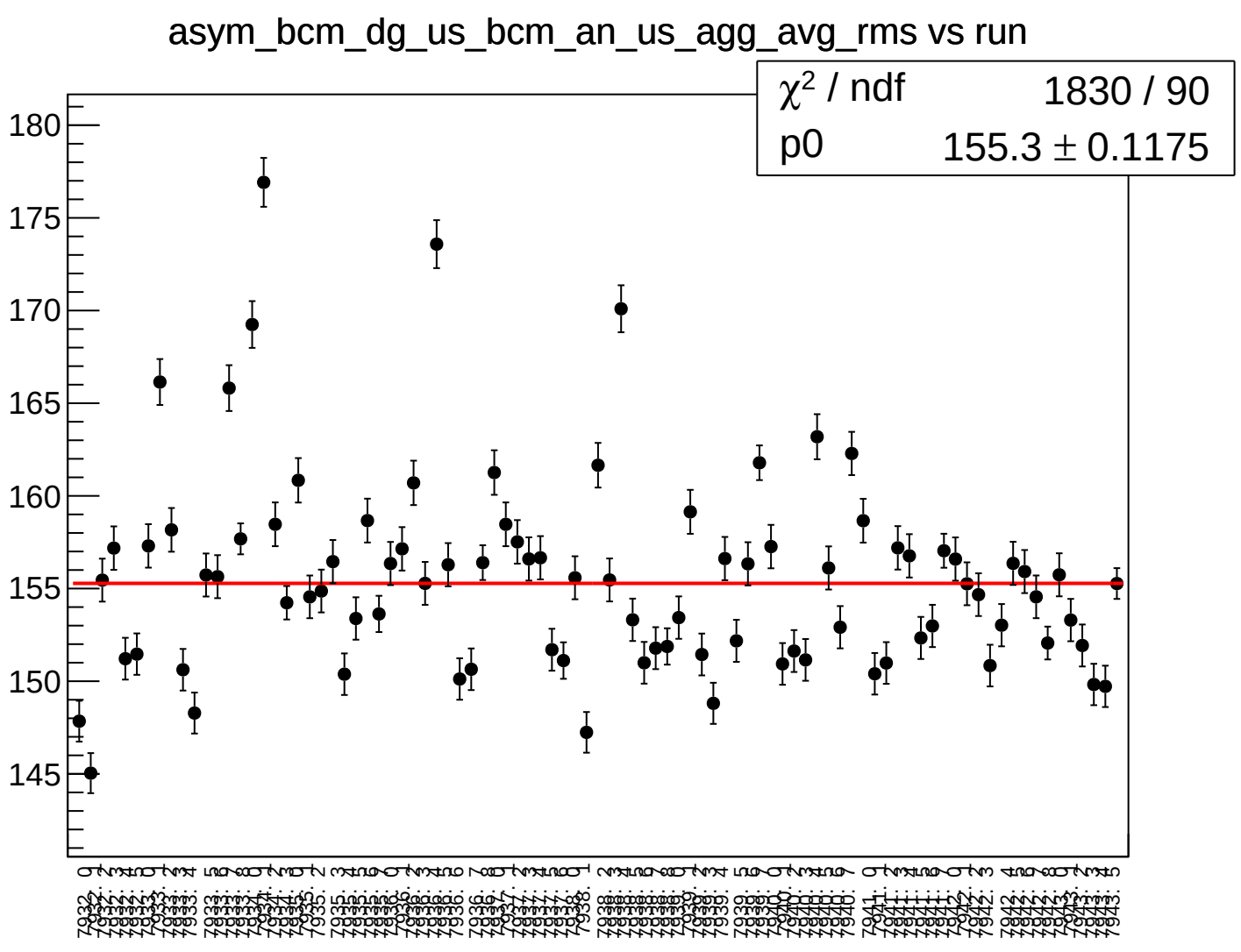

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1851 / 90
p0 154.7 ± 0.117
180
175
170
165
160
155
150
145

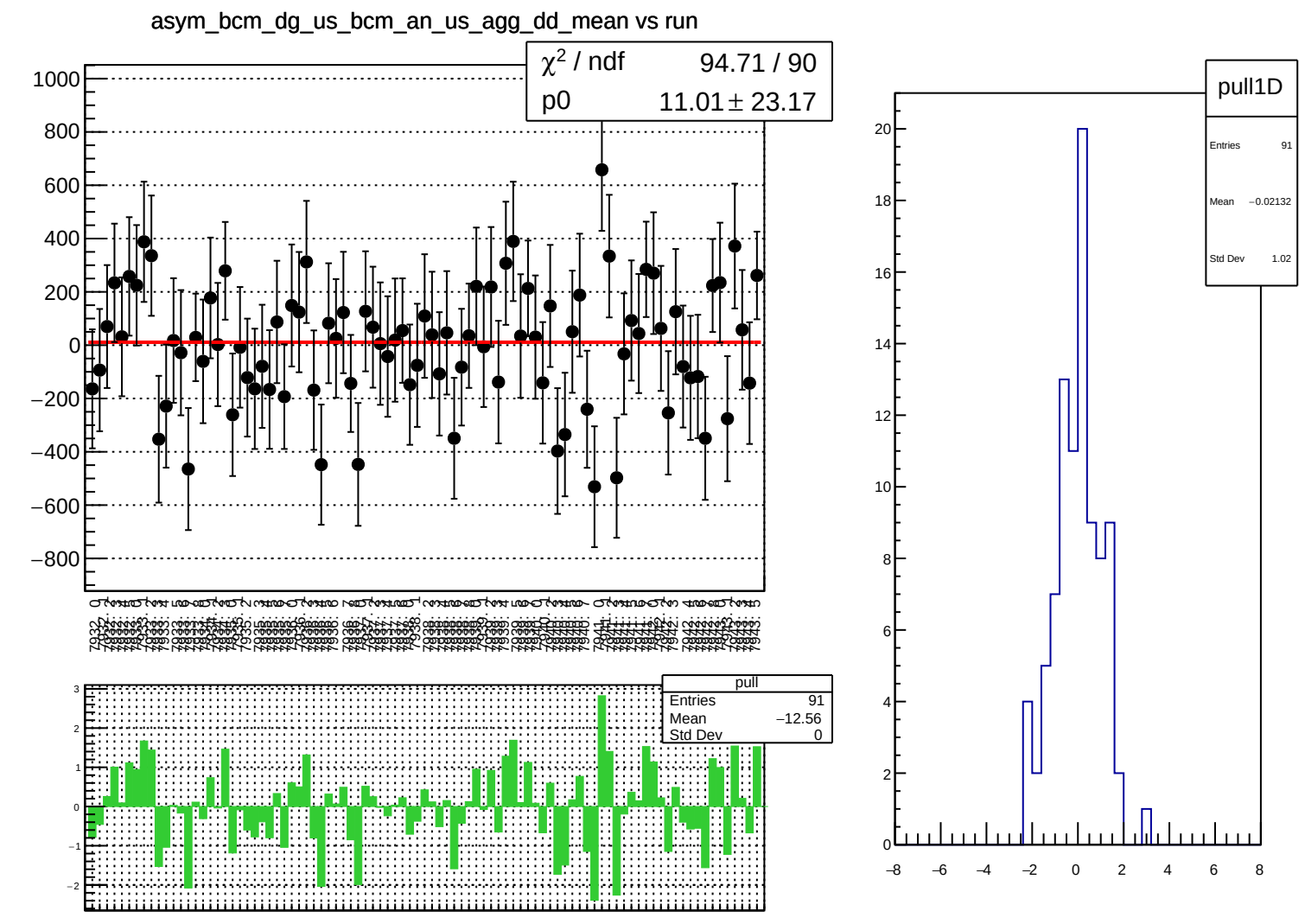

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.41 / 90
p0 14.5 ± 17.17
pull
Entries 91
Mean 67.24
Std Dev 0

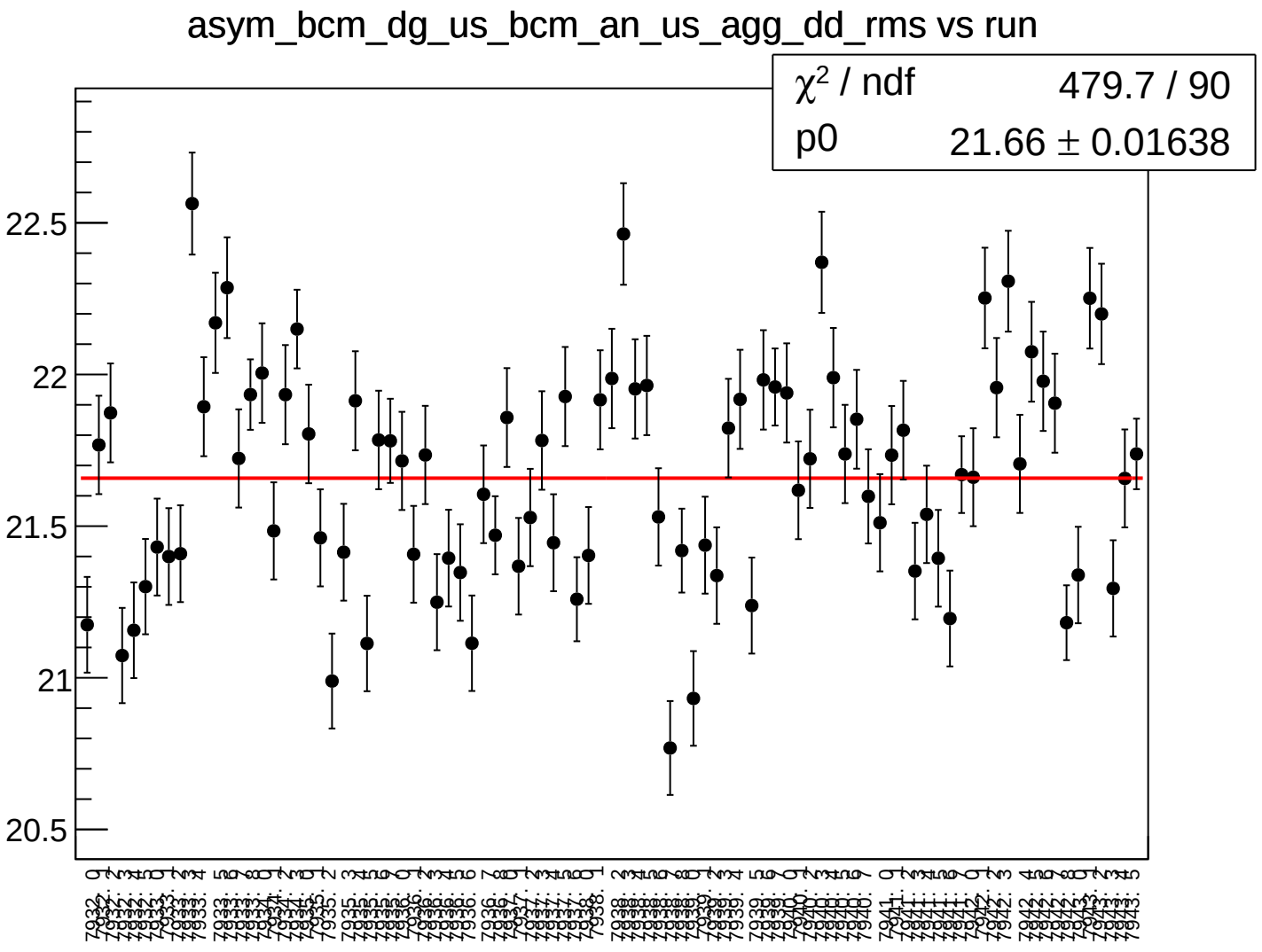

pull1D
Entries 91
Mean −0.003367
Std Dev 0.9458

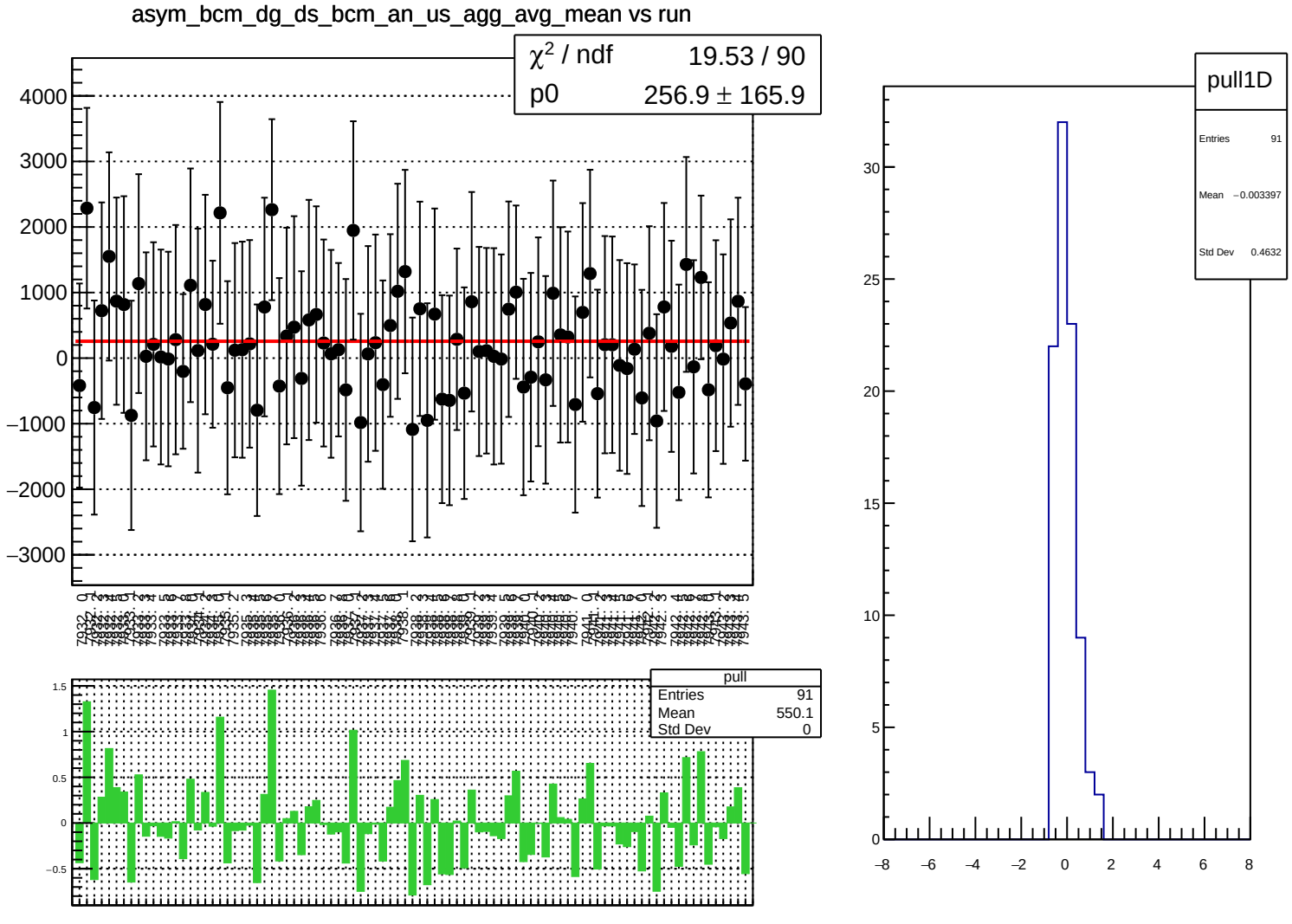

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1453 / 90
p0 16.05 ± 0.01214
17
16.5
16
15.5
15

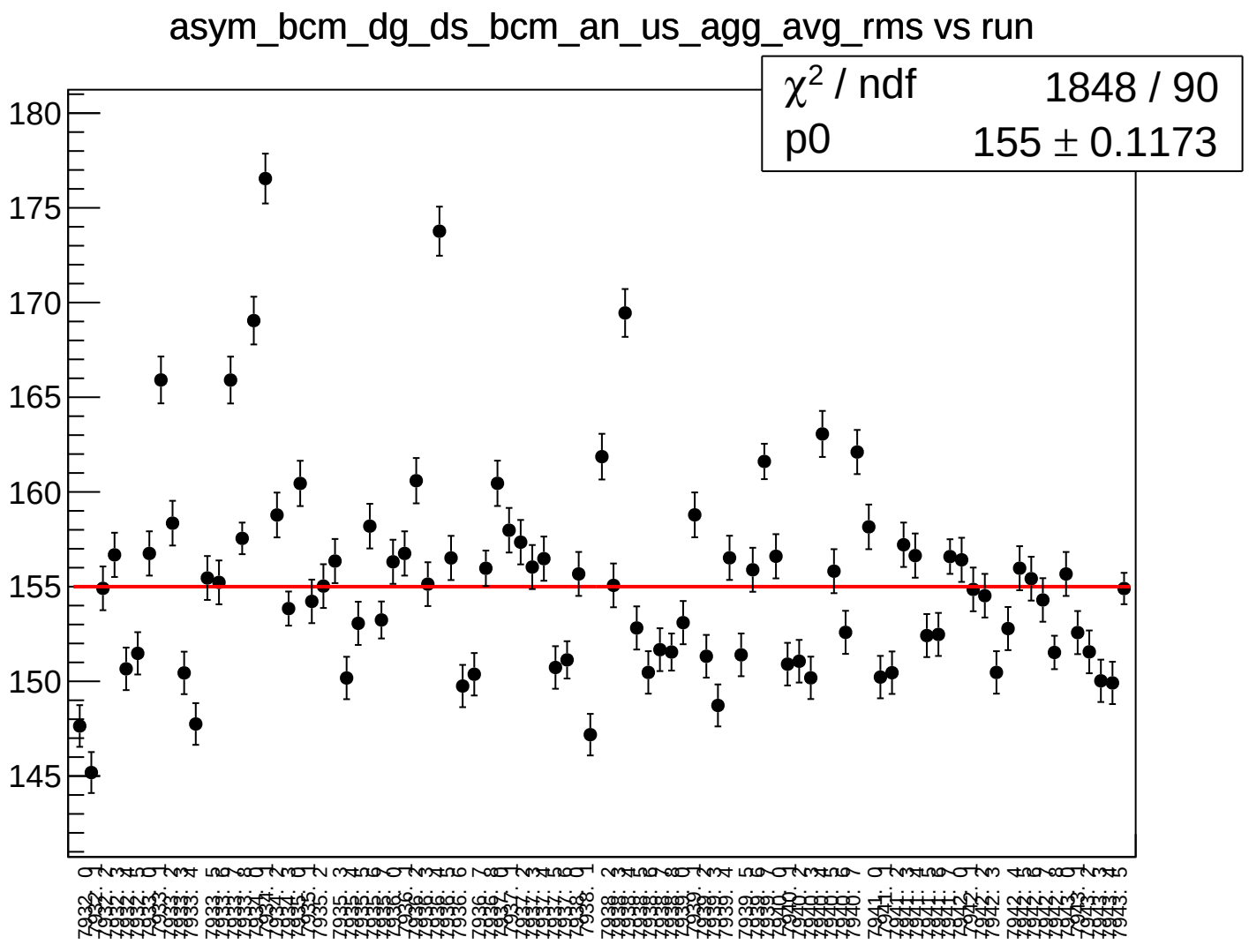

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.58 / 90
p0 243.8 ± 166.2
pull
Entries 91
Mean 268.9
Std Dev 0
pull1D
Entries 91
Mean −0.006908
Std Dev 0.4638

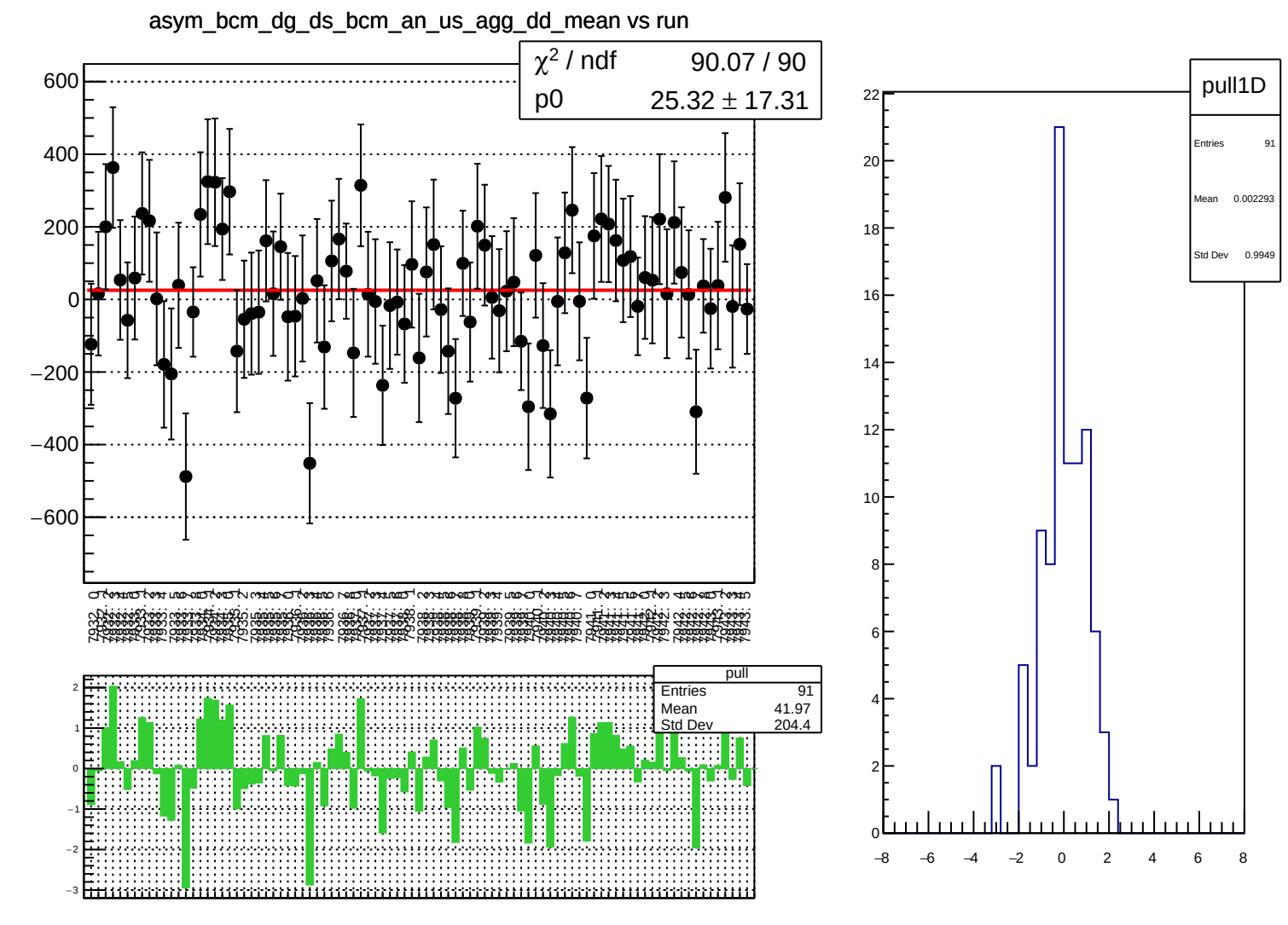

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1830 / 90
p0 155.3 ± 0.1175
180
175
170
165
160
155
150
145

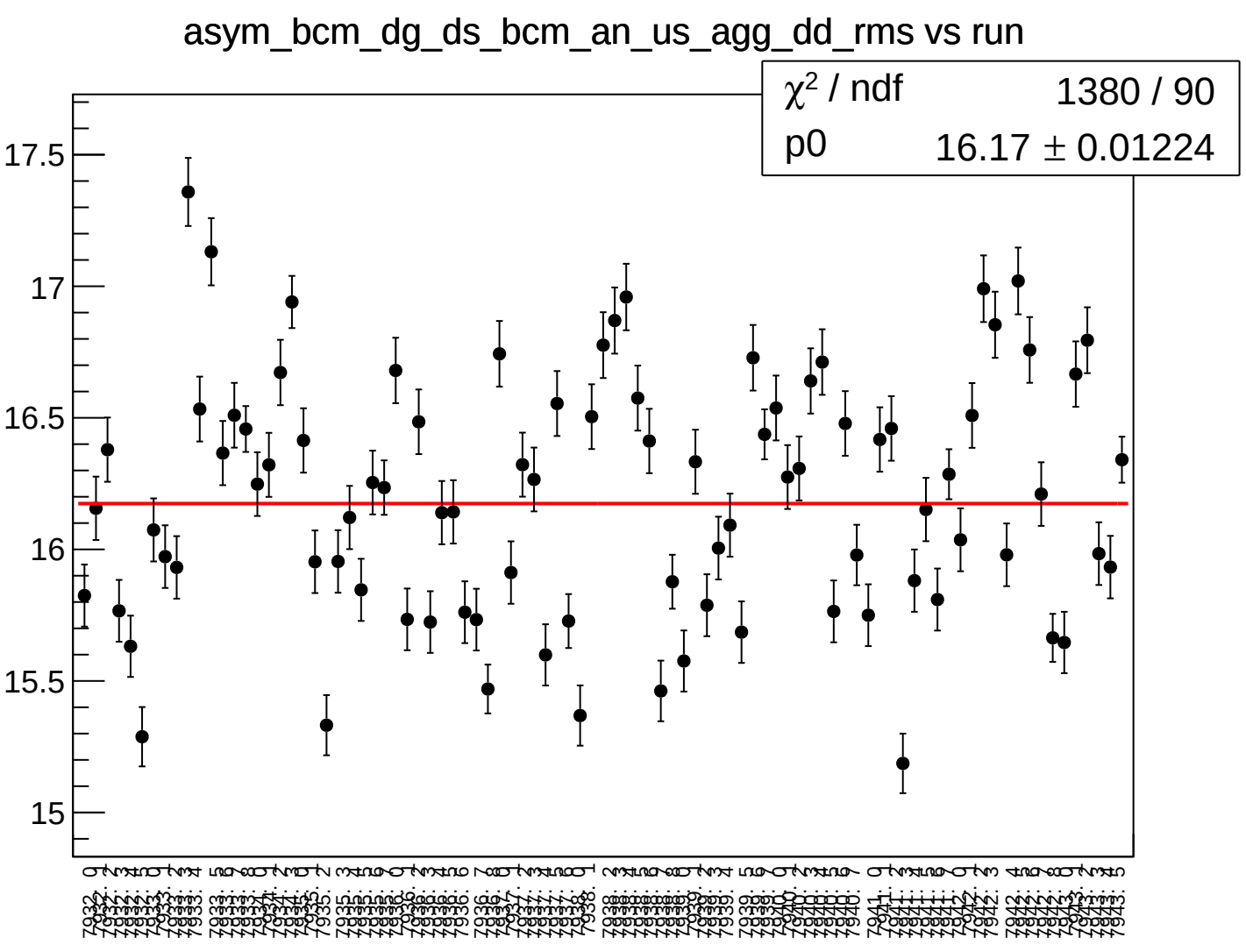

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 94.71 / 90
p0 11.01 ± 23.17
pull
Entries 91
Mean −12.56
Std Dev 0
pull1D
Entries 91
Mean −0.02132
Std Dev 1.02

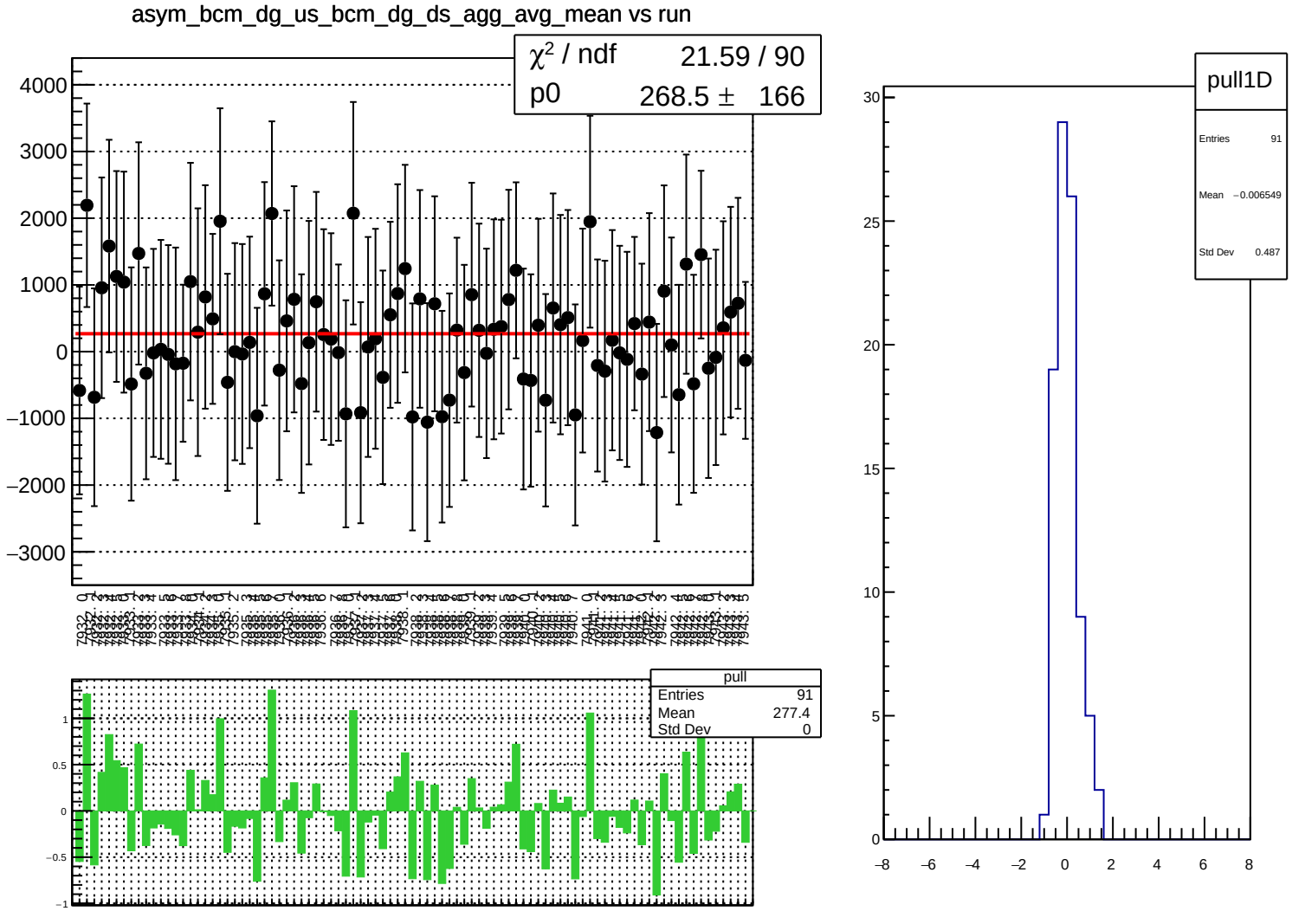

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 479.7 / 90
p0 21.66 ± 0.01638
22.5
22
21.5
21
20.5

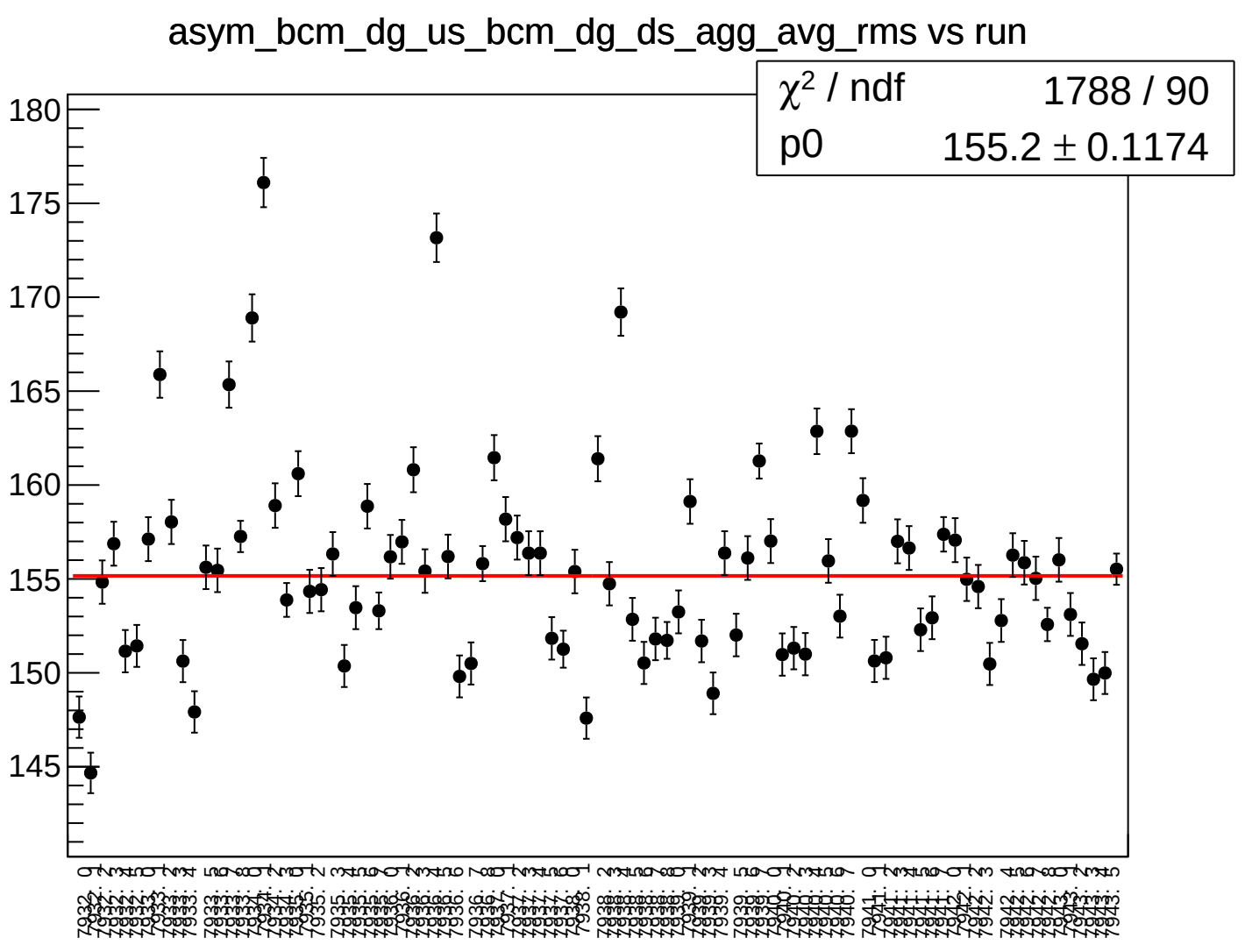

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.53 / 90
p0 256.9 ± 165.9
pull
Entries 91
Mean 550.1
Std Dev 0
pull1D
Entries 91
Mean −0.003397
Std Dev 0.4632

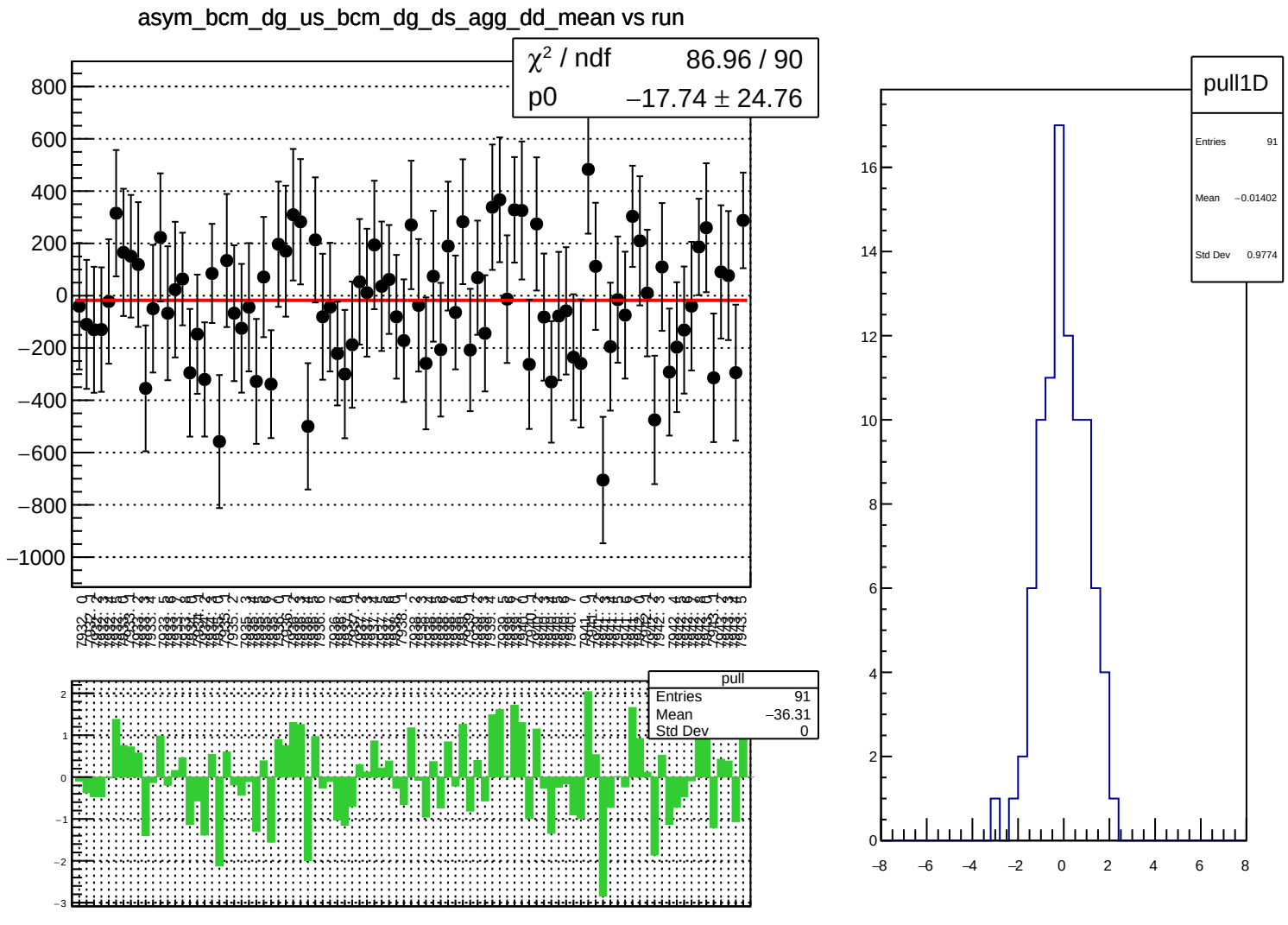

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1848 / 90
p0 155 ± 0.1173
180
175
170
165
160
155
150
145

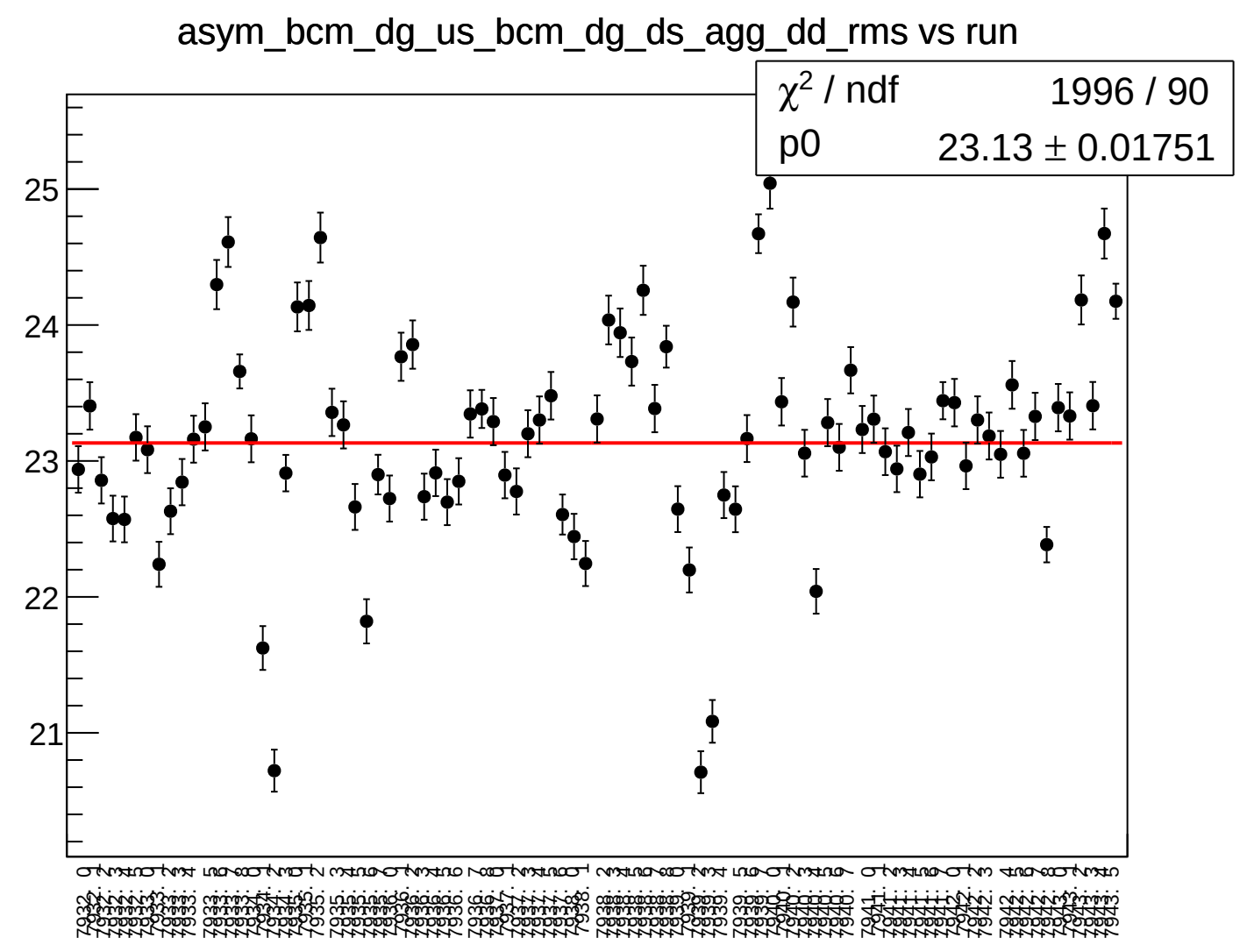

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 90.07 / 90
p0 25.32 ± 17.31
pull
Entries 91
Mean 41.97
Std Dev 204.4
pull1D
Entries 91
Mean 0.002293
Std Dev 0.9949

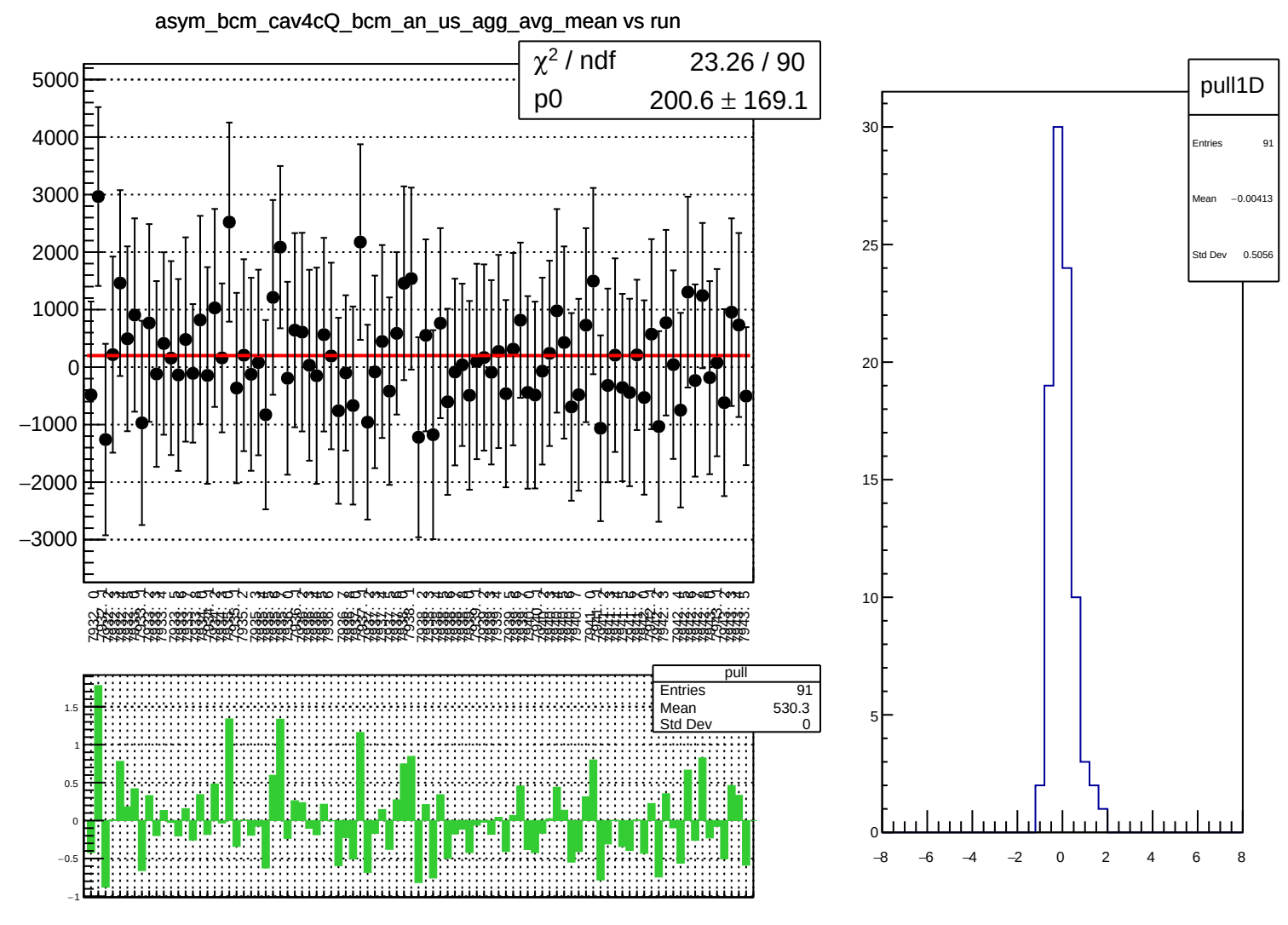

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1380 / 90
p0 16.17 ± 0.01224
17.5
17
16.5
16
15.5
15

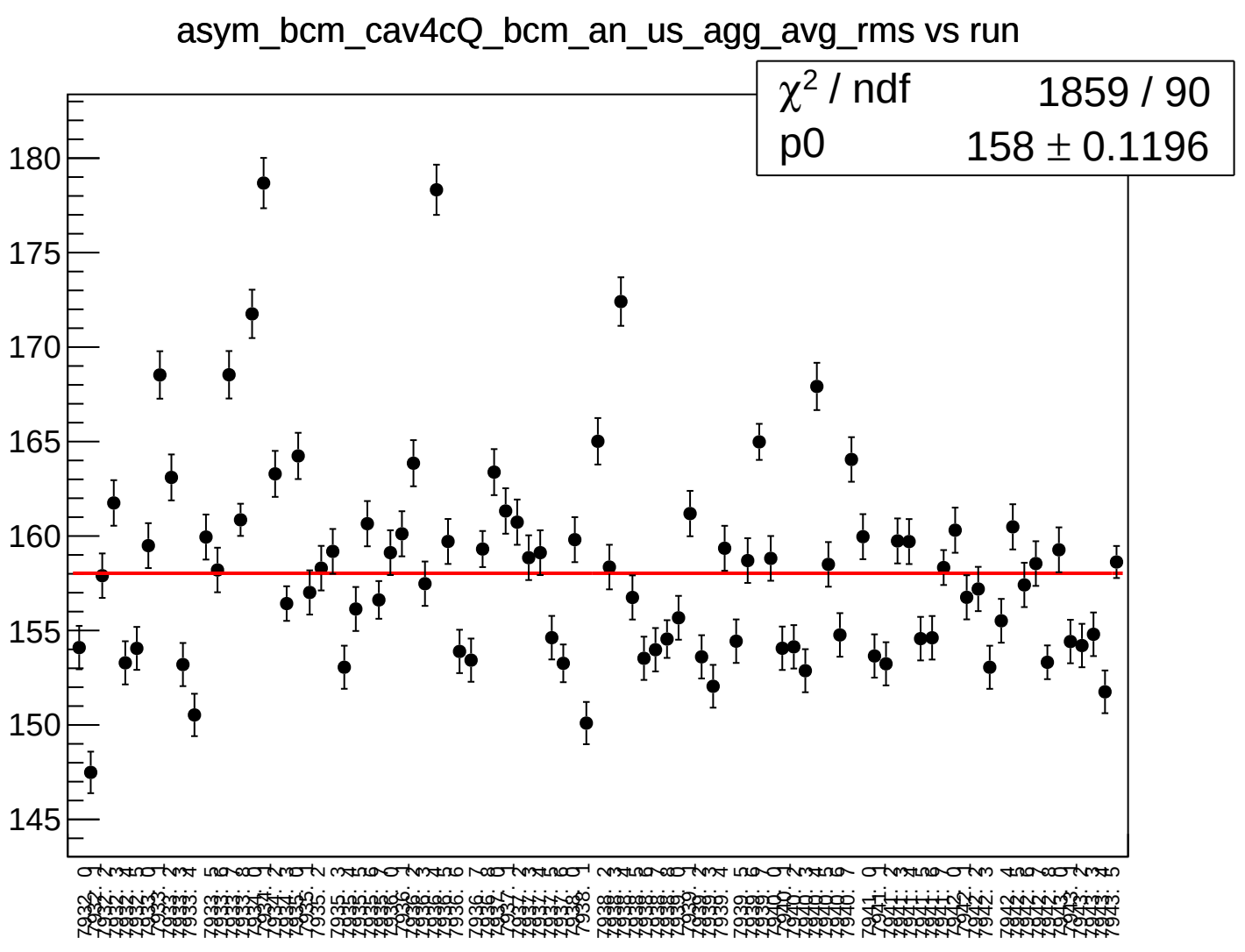

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.59 / 90
p0 268.5 ± 166
pull
Entries 91
Mean 277.4
Std Dev 0
pull1D
Entries 91
Mean −0.006549
Std Dev 0.487

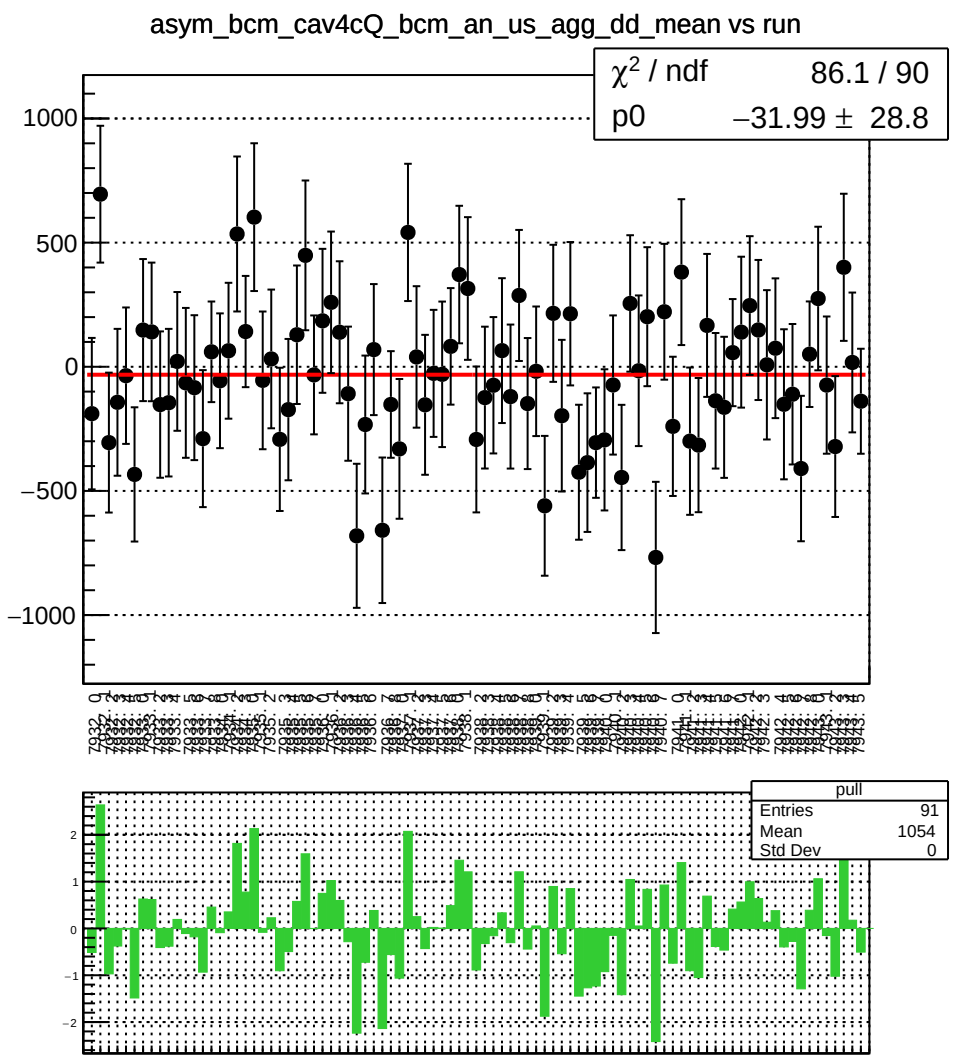

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1788 / 90
p0 155.2 ± 0.1174
180
175
170
165
160
155
150
145

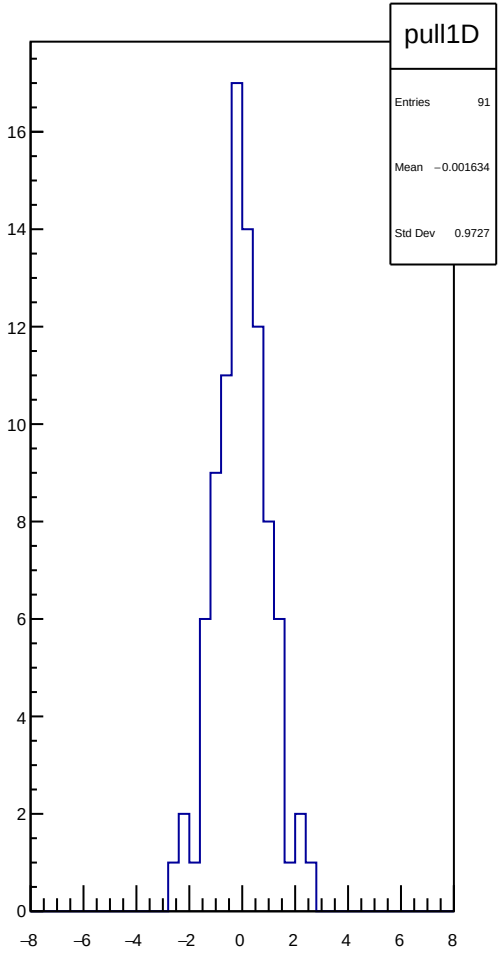

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 86.96 / 90
p0 −17.74 ± 24.76
pull
Entries 91
Mean −36.31
Std Dev 0
pull1D
Entries 91
Mean −0.01402
Std Dev 0.9774

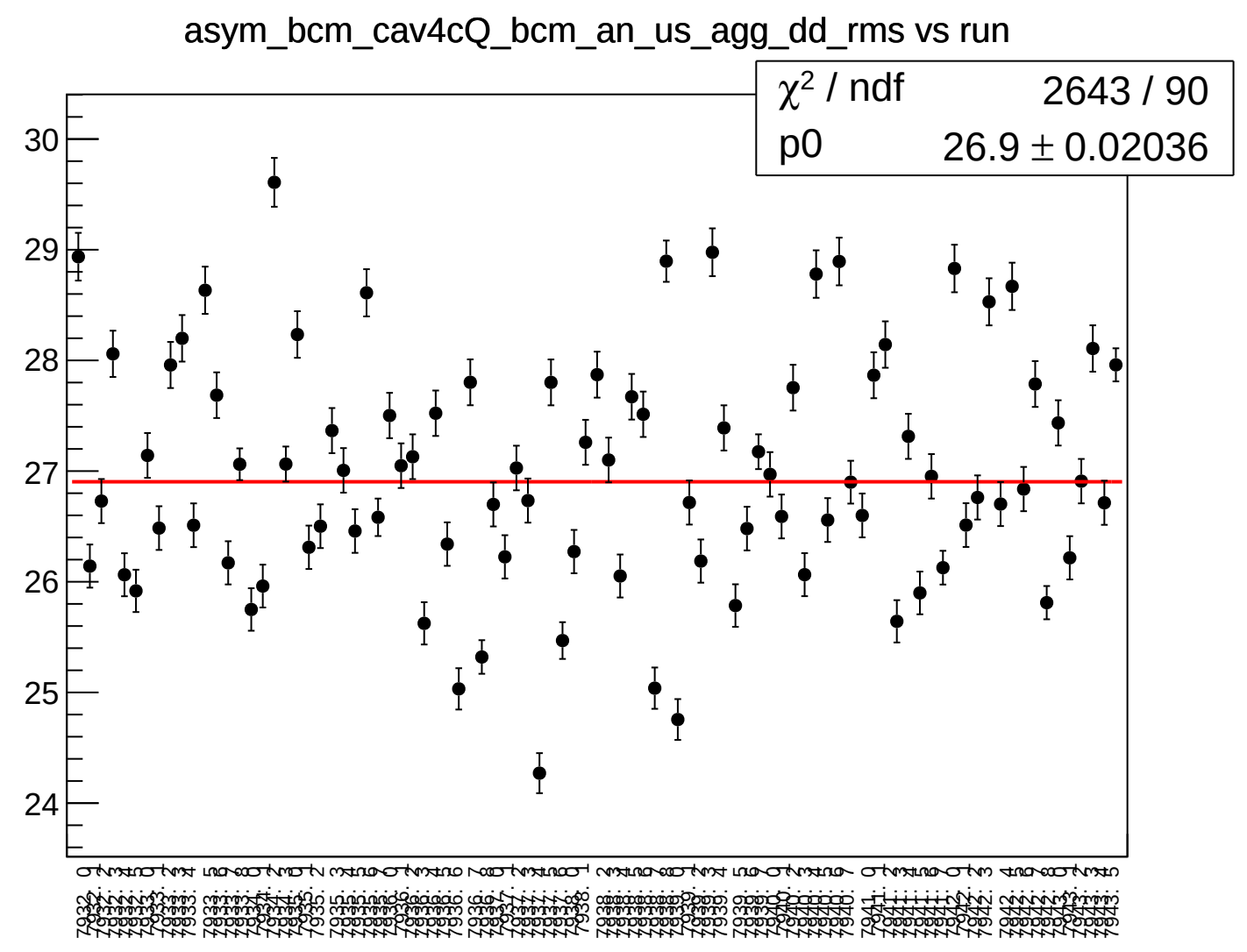

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1996 / 90
p0 23.13 ± 0.01751
25
24
23
22
21

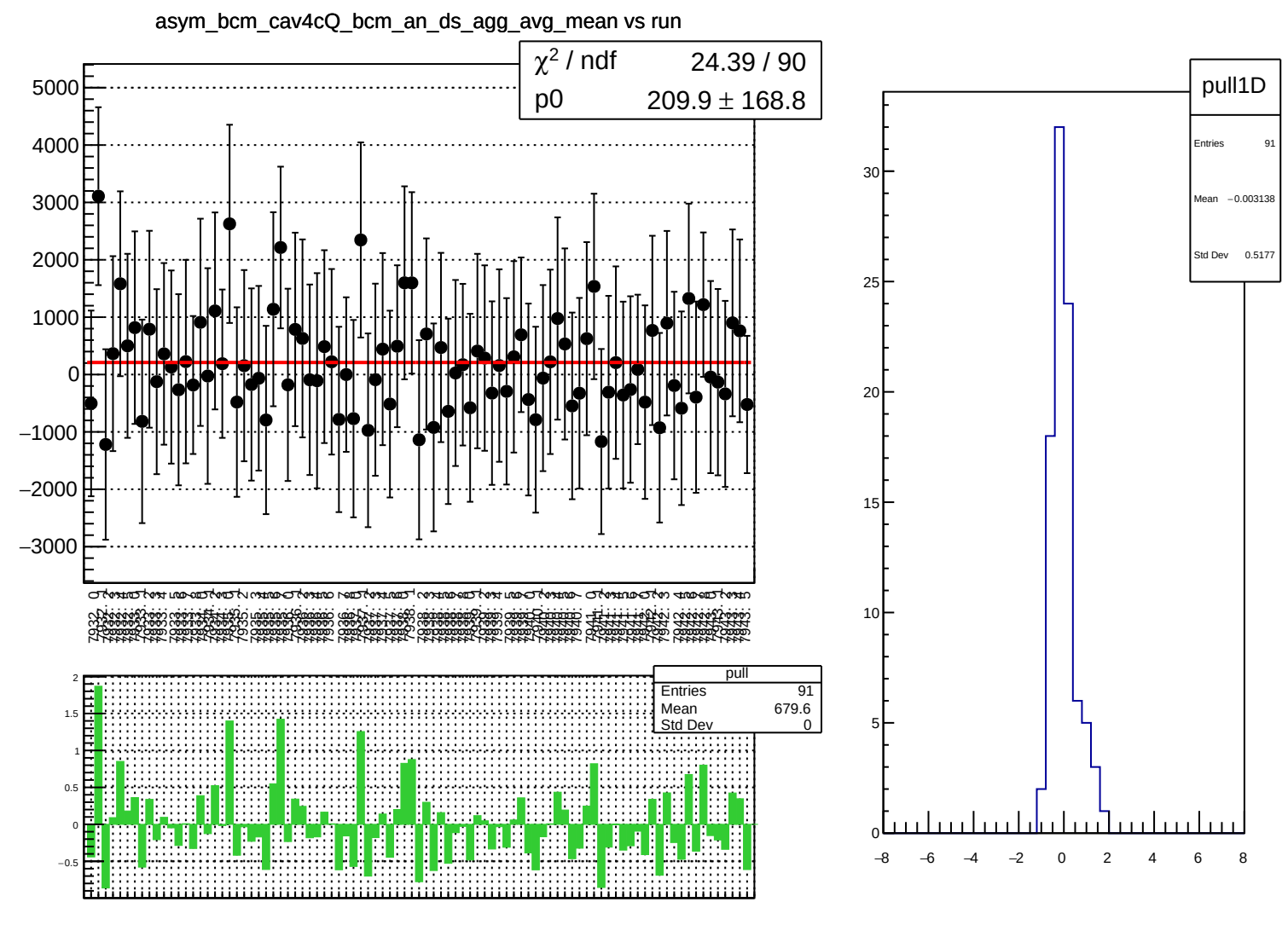

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.26 / 90
p0 200.6 ± 169.1
pull
Entries 91
Mean 530.3
Std Dev 0
pull1D
Entries 91
Mean −0.00413
Std Dev 0.5056

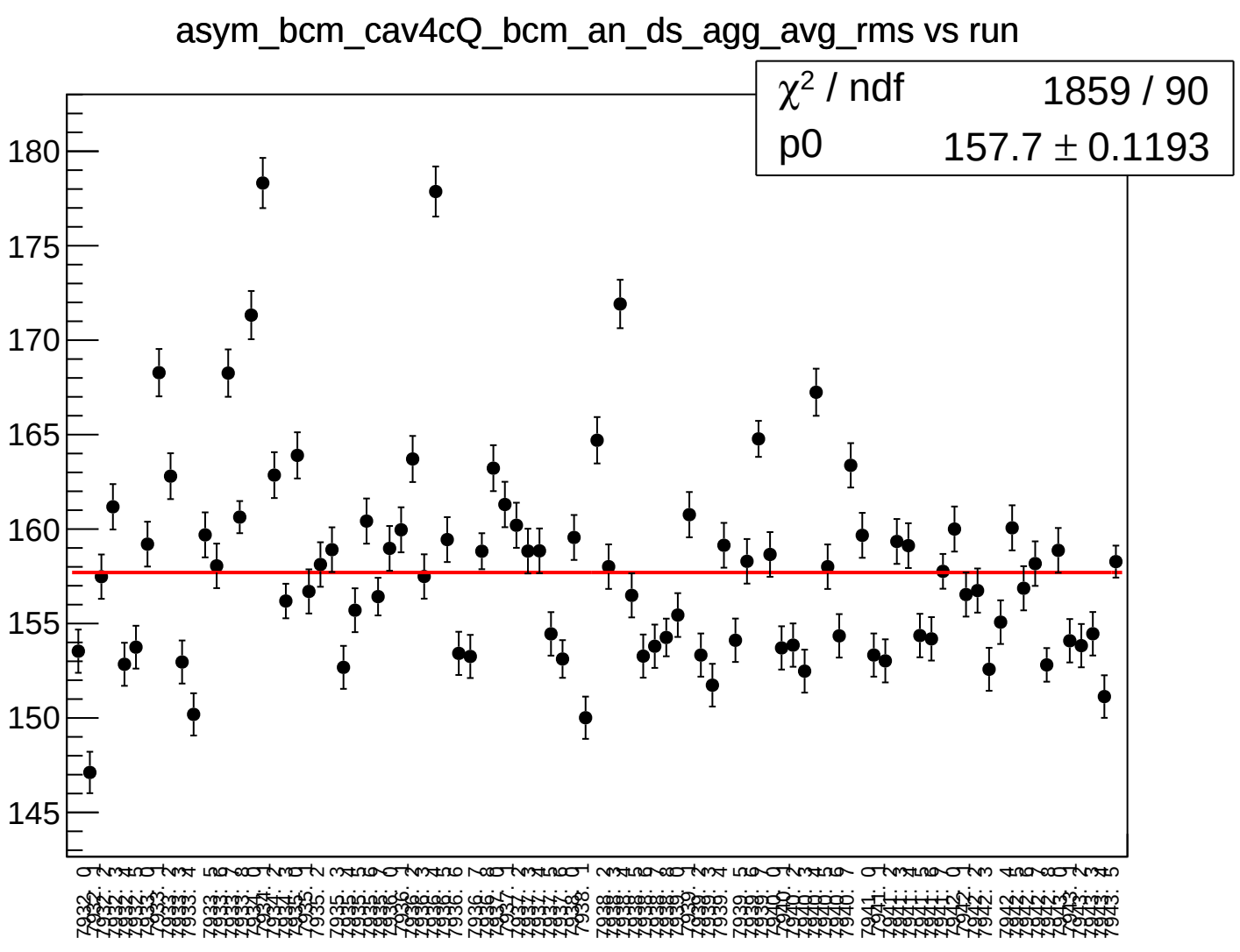

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1859 / 90
p0 158 ± 0.1196
180
175
170
165
160
155
150
145

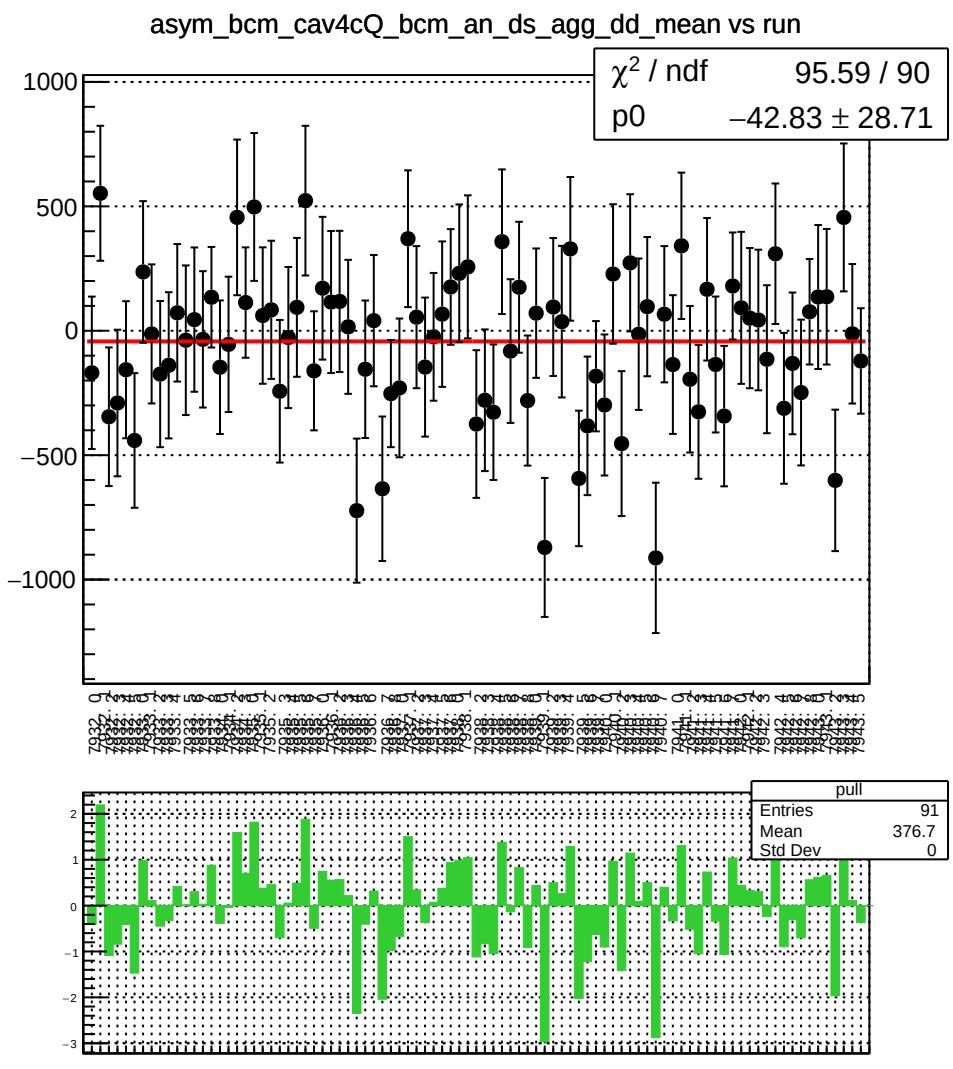

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.1 / 90
p0 −31.99 ± 28.8
1000
500
0
−500
−1000
pull
Entries 91
Mean 1054
Std Dev 0
2
1
0
−1
−2

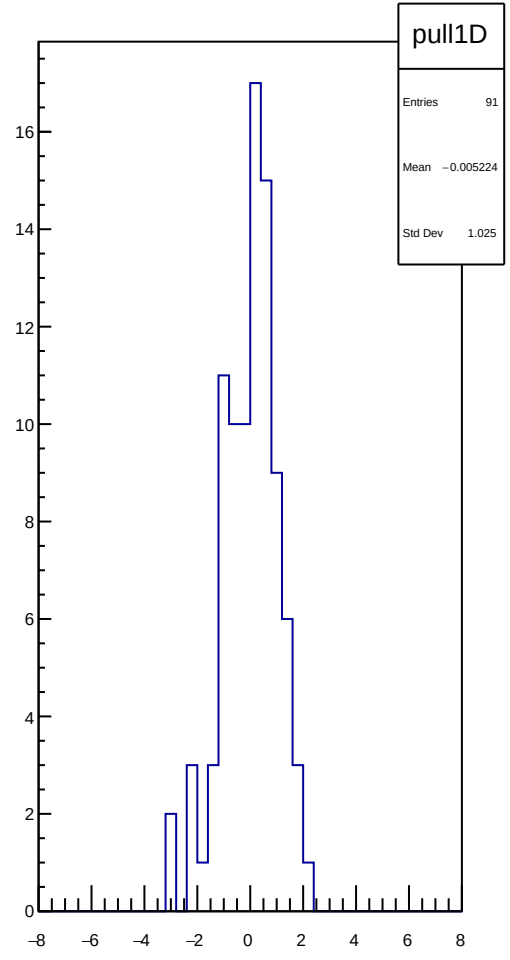

pull1D
Entries 91
Mean −0.001634
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

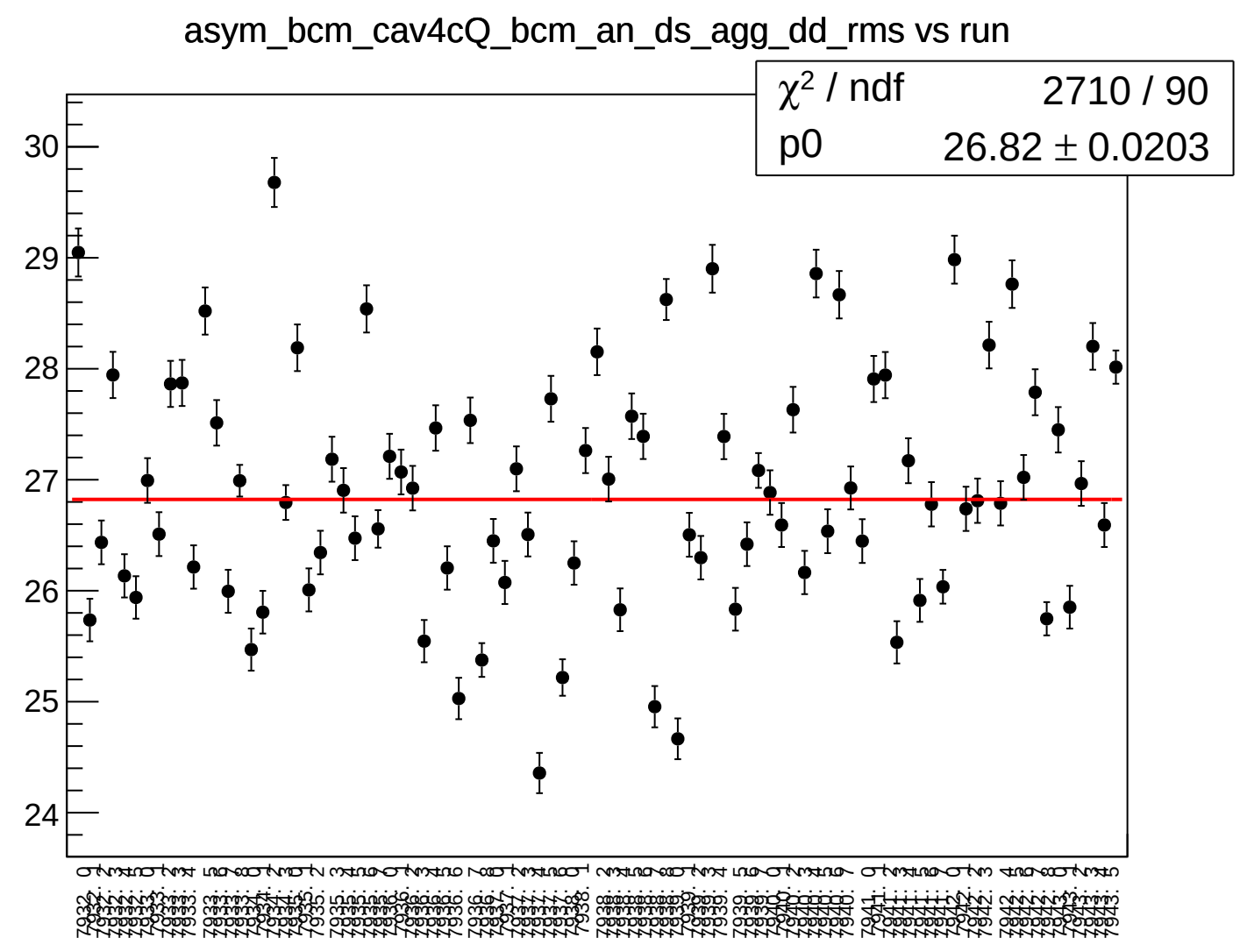

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2643 / 90
p0 26.9 ± 0.02036
30
29
28
27
26
25
24

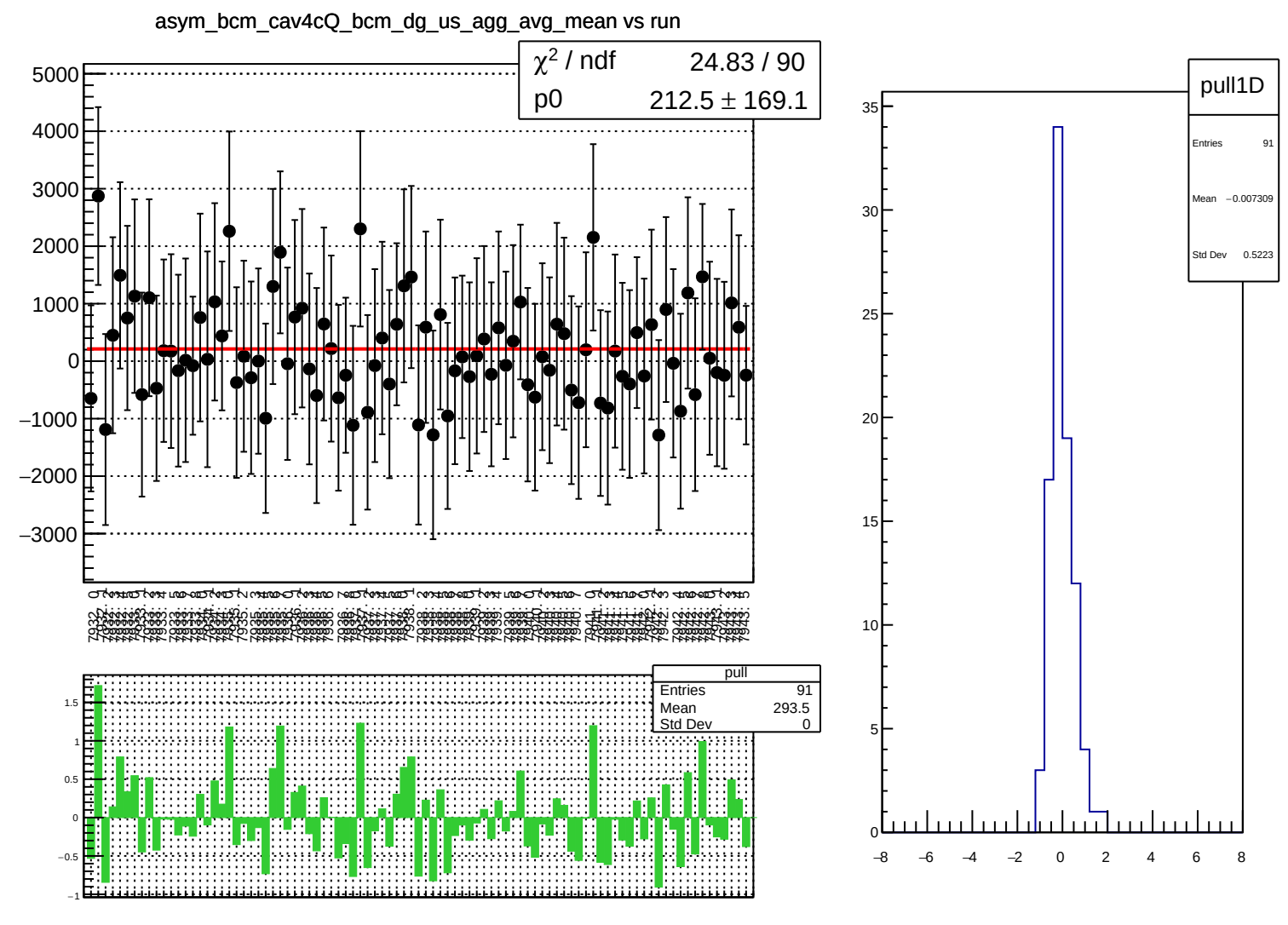

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.39 / 90
p0 209.9 ± 168.8
pull
Entries 91
Mean 679.6
Std Dev 0
pull1D
Entries 91
Mean −0.003138
Std Dev 0.5177

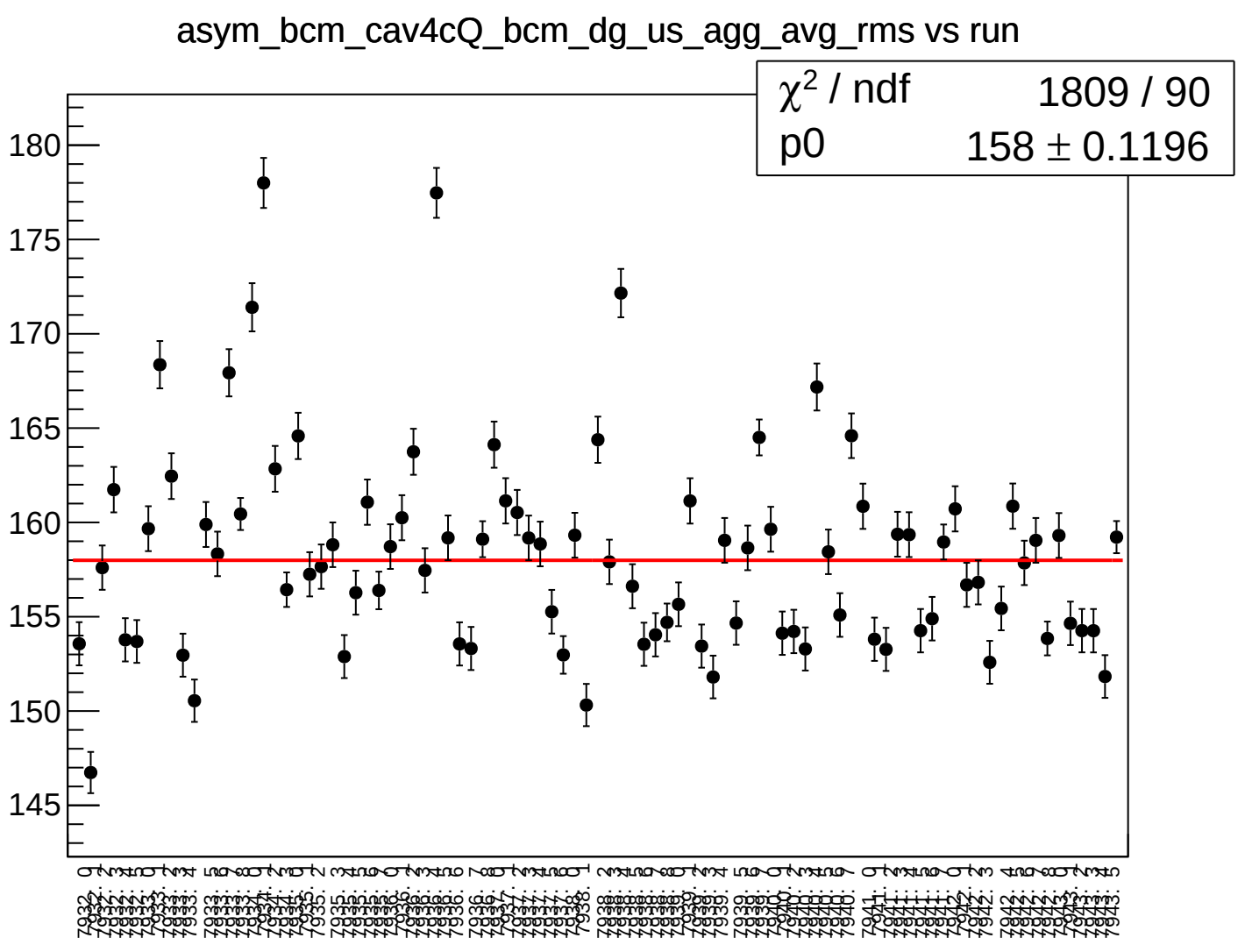

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1859 / 90
p0 157.7 ± 0.1193
180
175
170
165
160
155
150
145

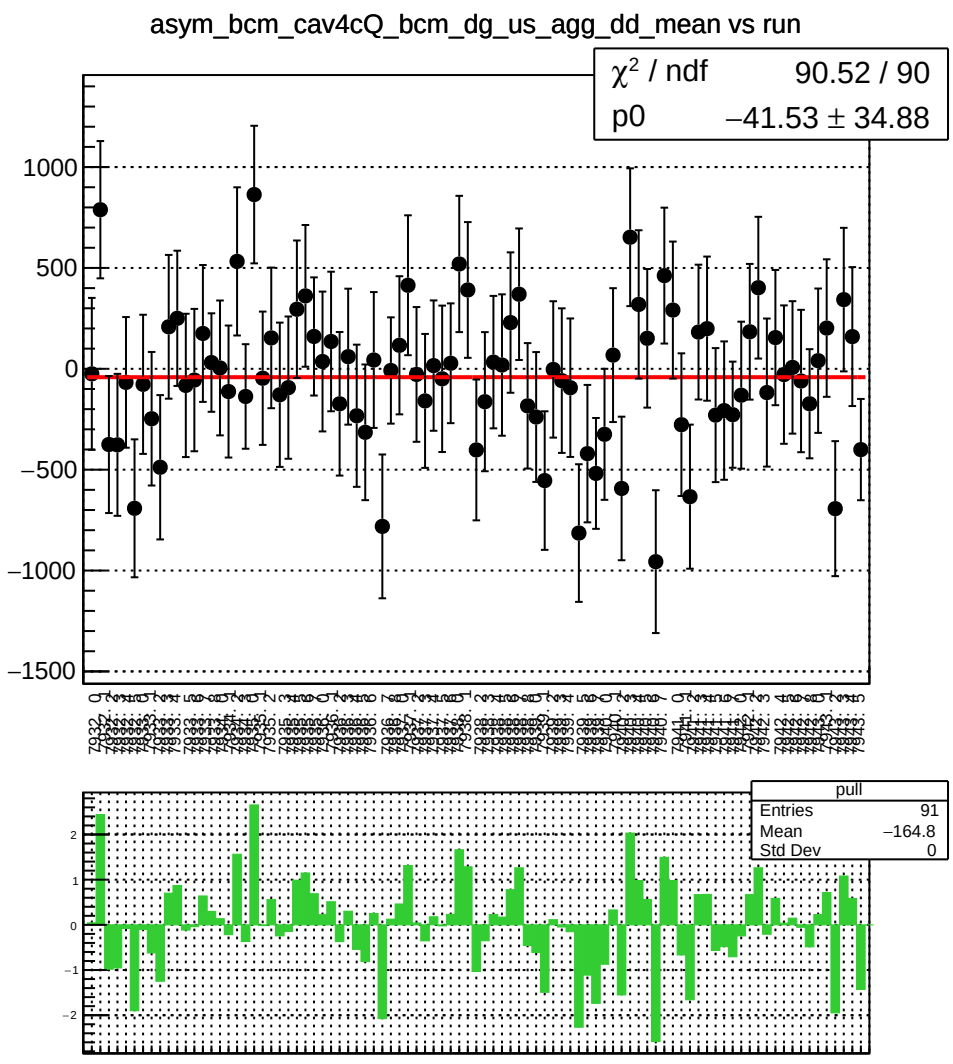

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.59 / 90
p0 −42.83 ± 28.71
1000
500
0
−500
−1000
pull
Entries 91
Mean 376.7
Std Dev 0
2
1
0
−1
−2
−3

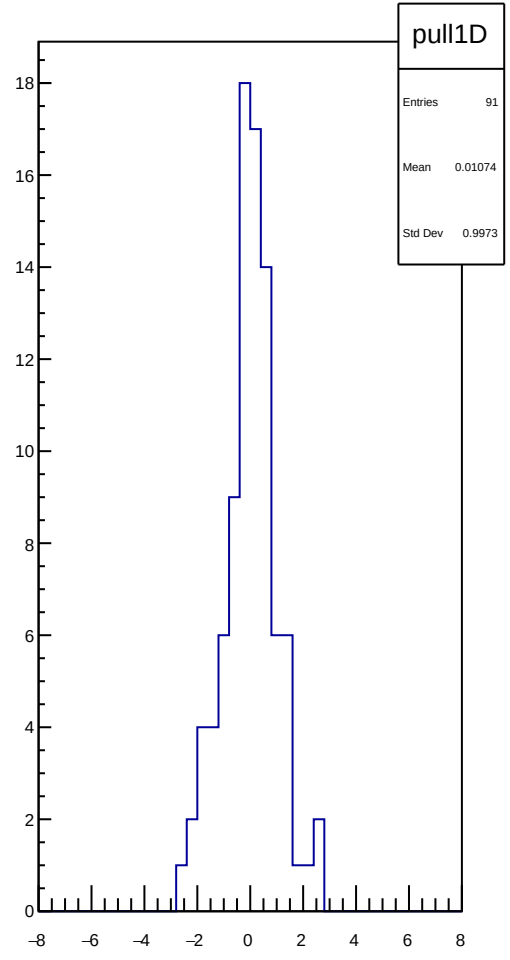

pull1D
Entries 91
Mean −0.005224
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

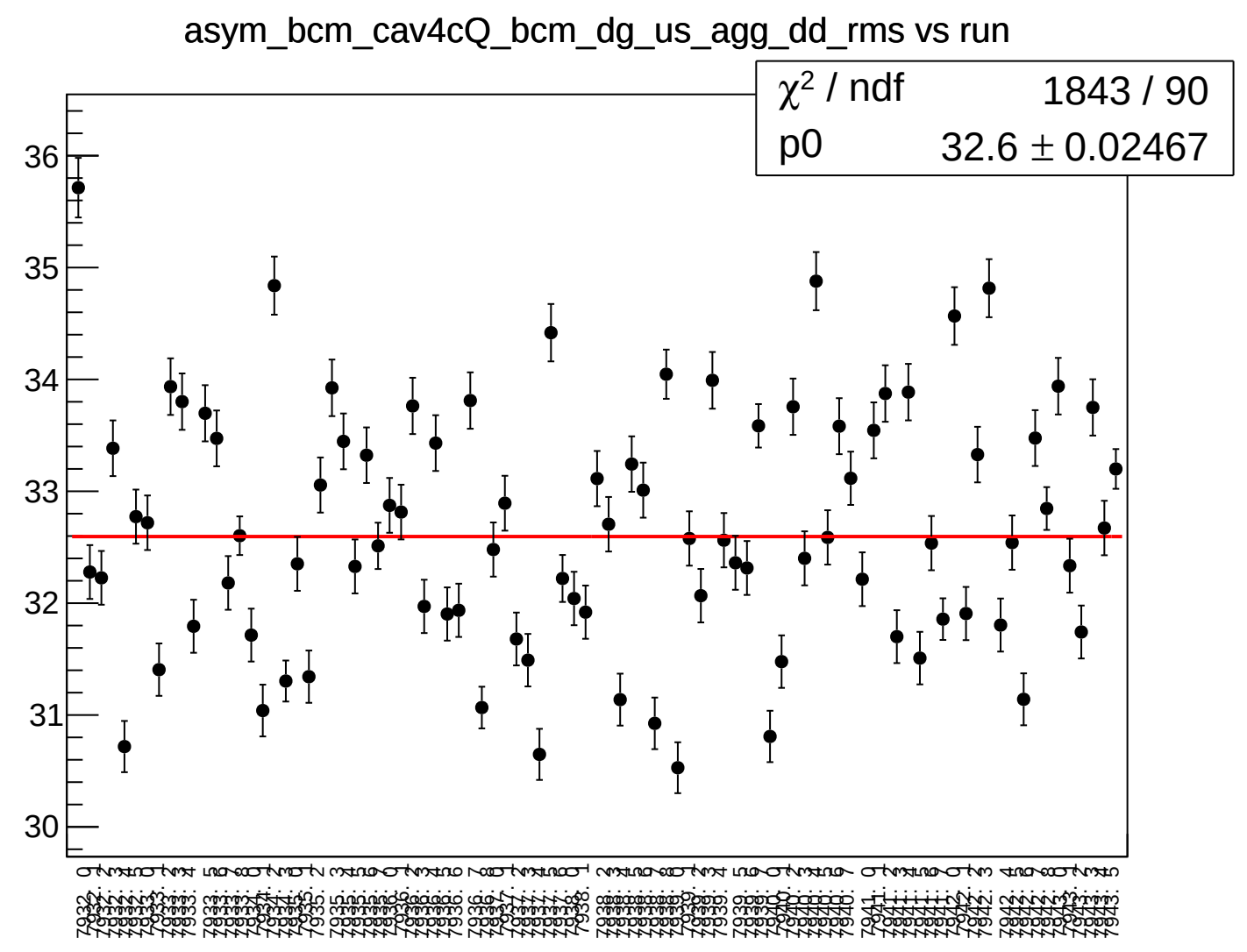

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2710 / 90
p0 26.82 ± 0.0203
30
29
28
27
26
25
24

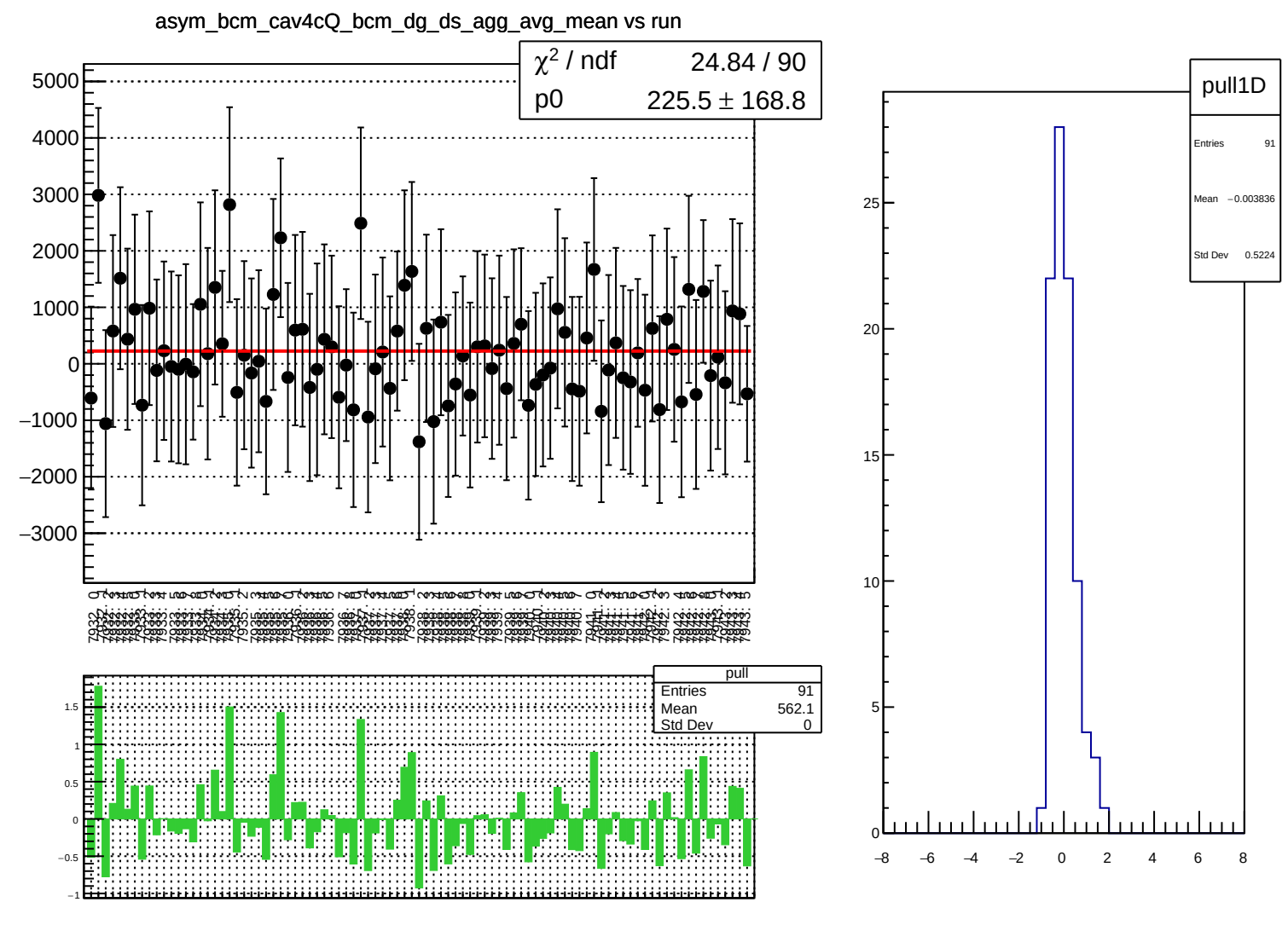

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.83 / 90
p0 212.5 ± 169.1
pull
Entries 91
Mean 293.5
Std Dev 0
pull1D
Entries 91
Mean −0.007309
Std Dev 0.5223

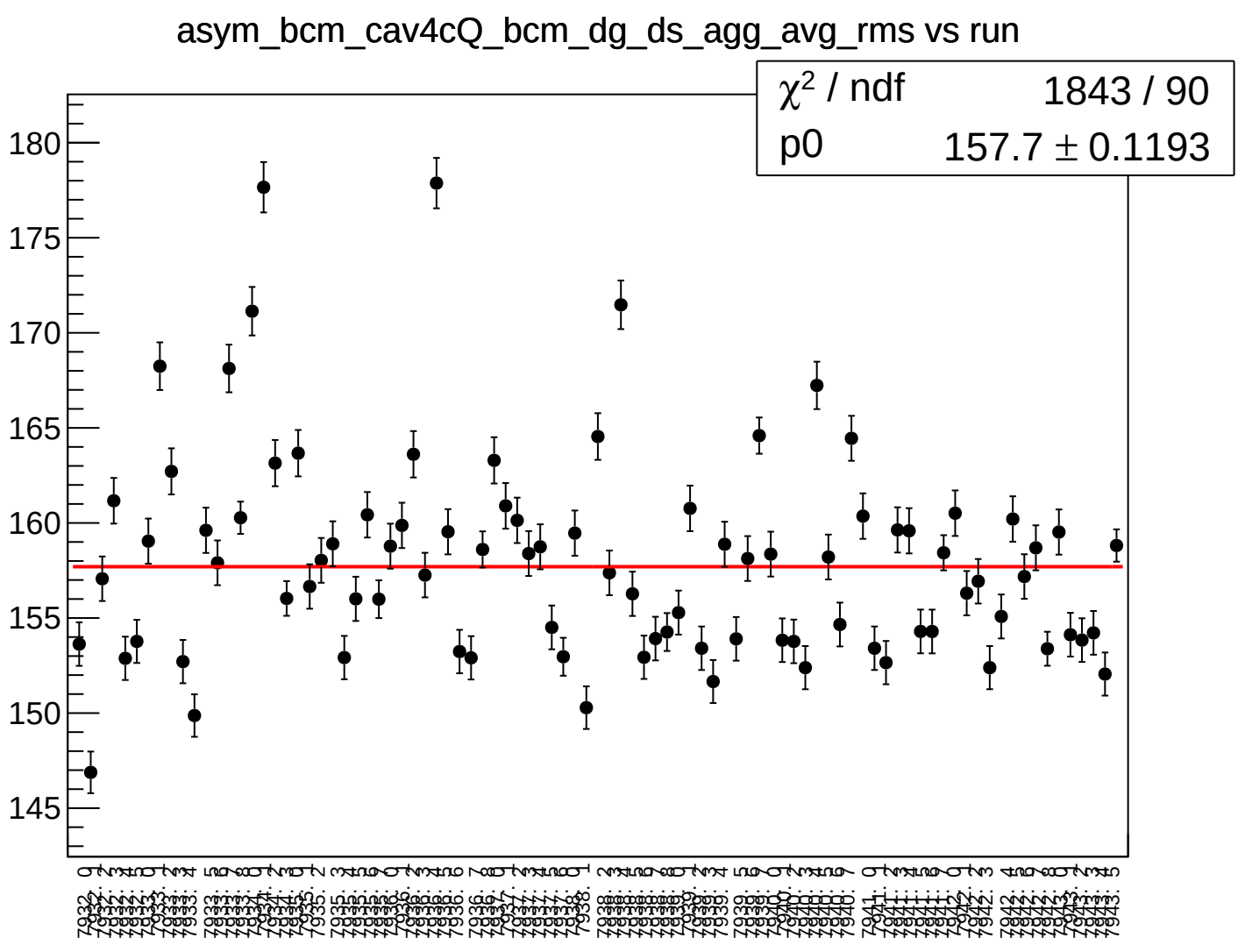

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1809 / 90
p0 158 ± 0.1196
180
175
170
165
160
155
150
145

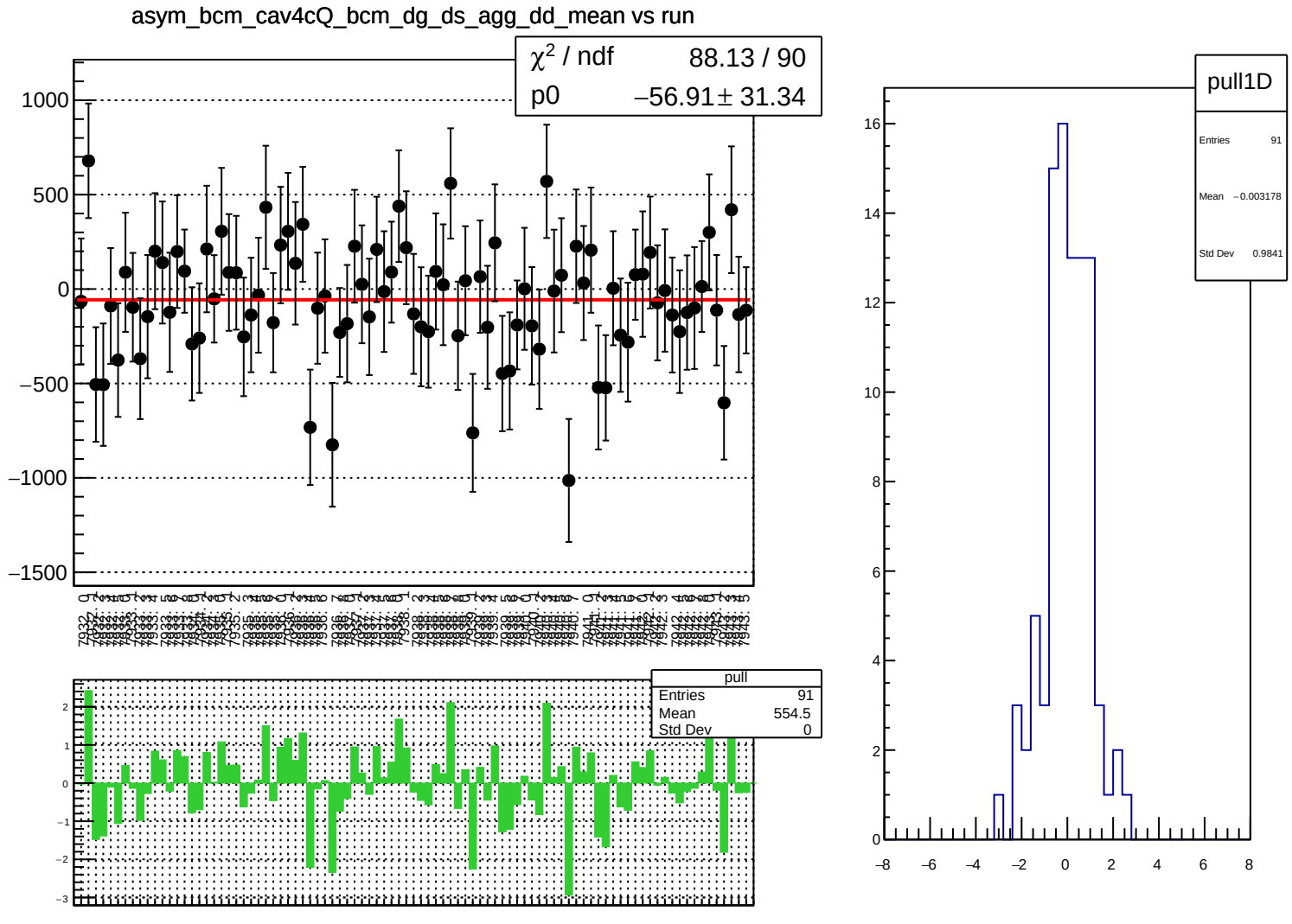

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.52 / 90
p0 −41.53 ± 34.88
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −164.8
Std Dev 0
2
1
0
−1
−2

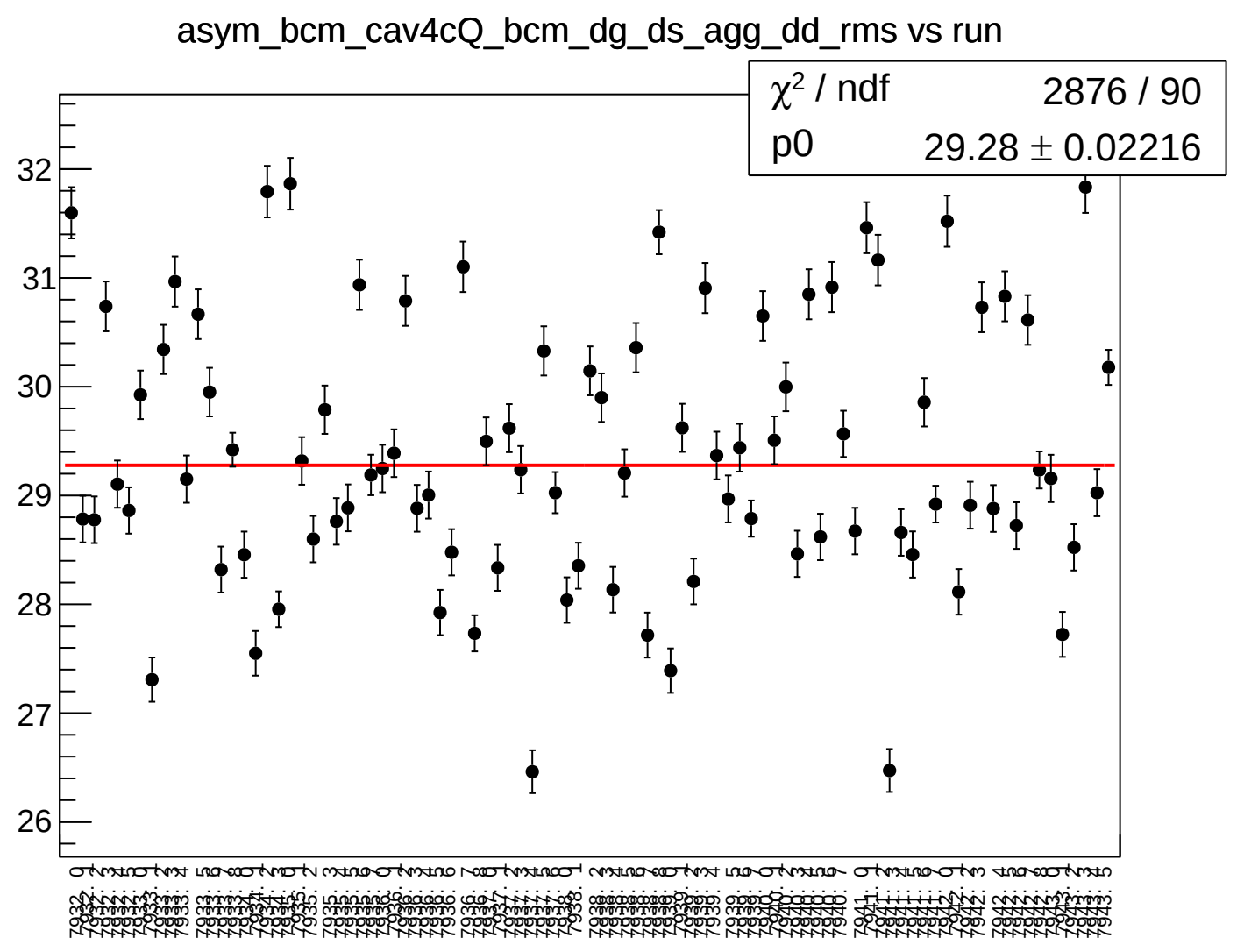

pull1D
Entries 91
Mean 0.01074
Std Dev 0.9973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

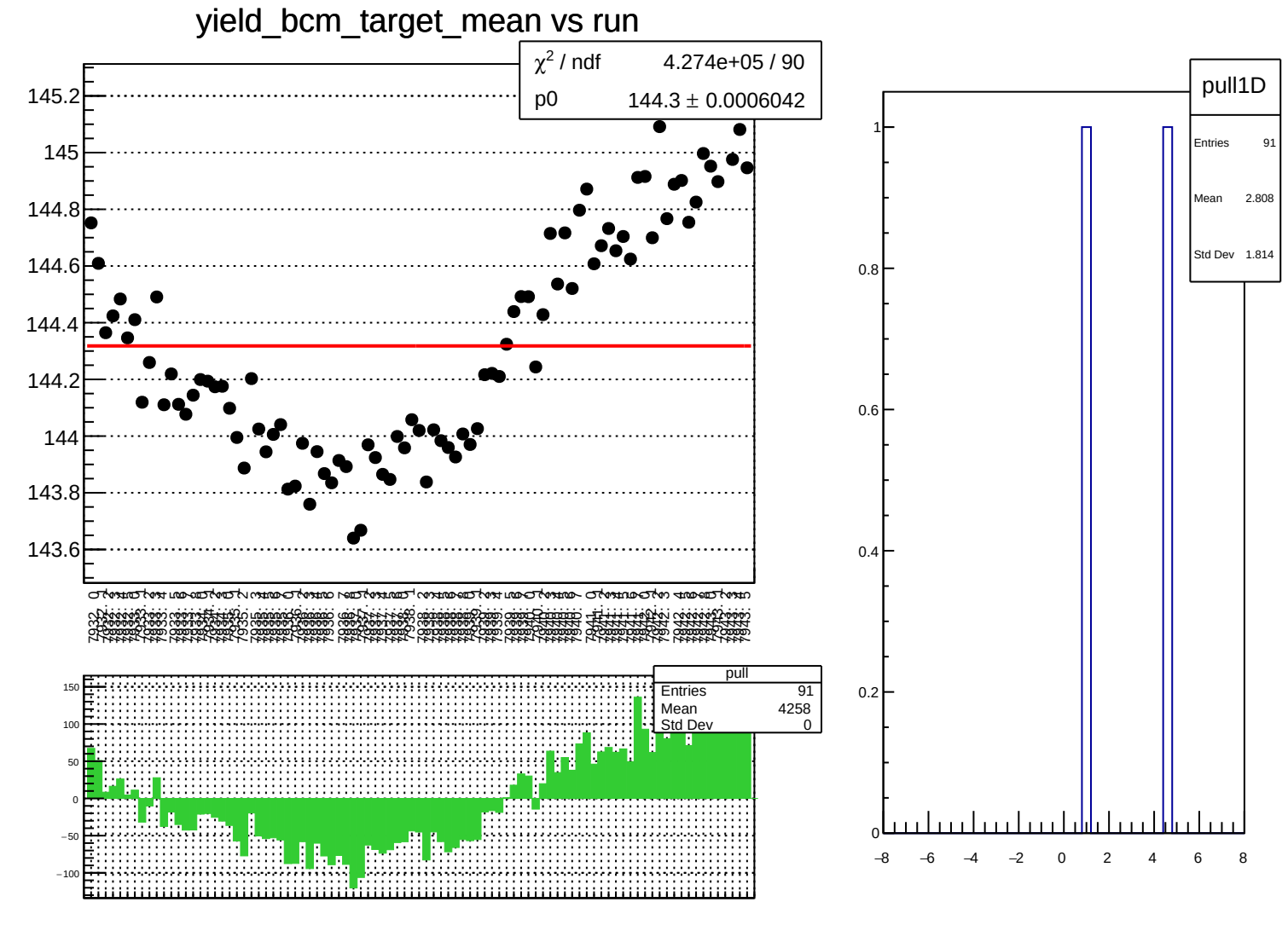

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1843 / 90
p0 32.6 ± 0.02467
36
35
34
33
32
31
30

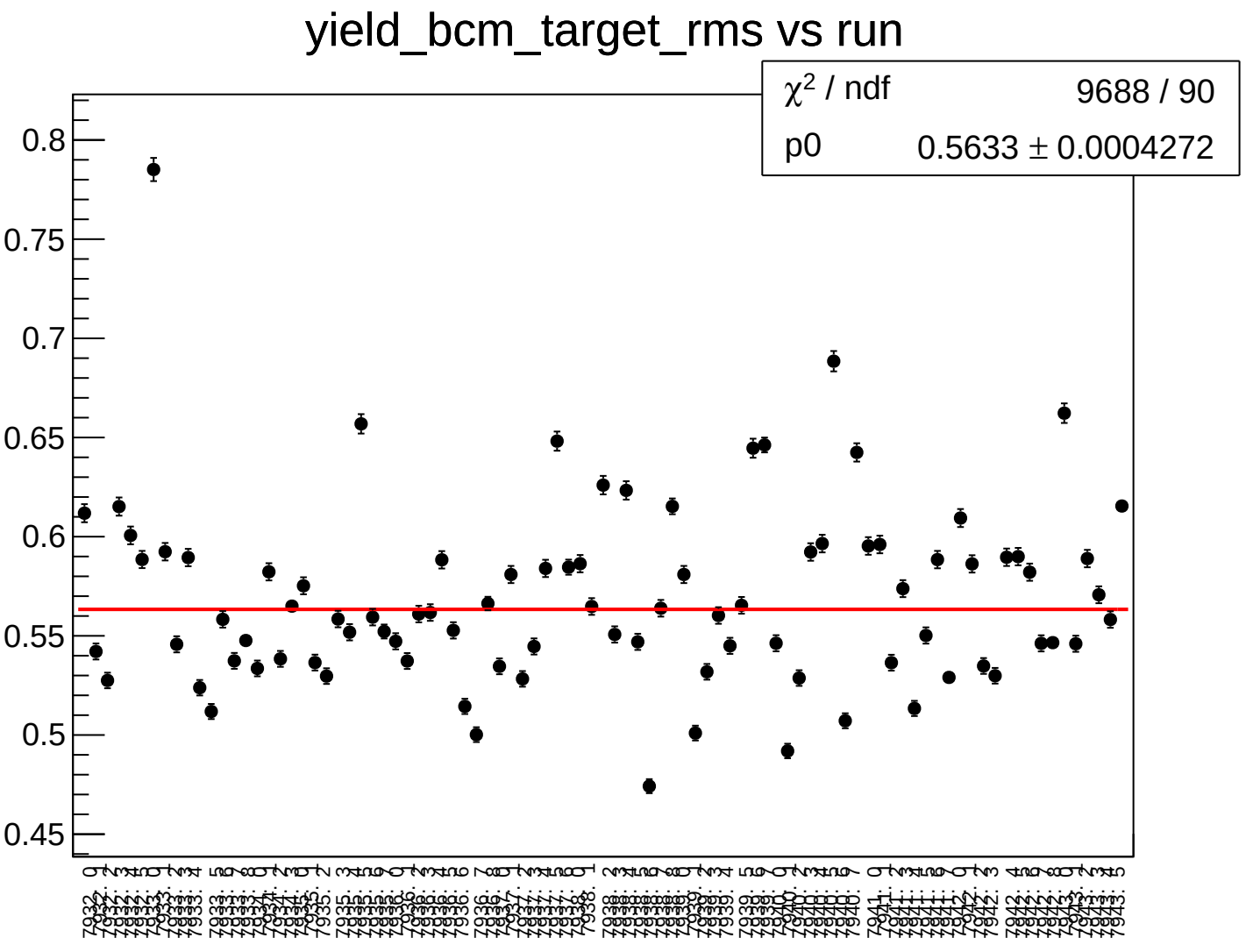

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.84 / 90
p0 225.5 ± 168.8
pull
Entries 91
Mean 562.1
Std Dev 0
pull1D
Entries 91
Mean −0.003836
Std Dev 0.5224

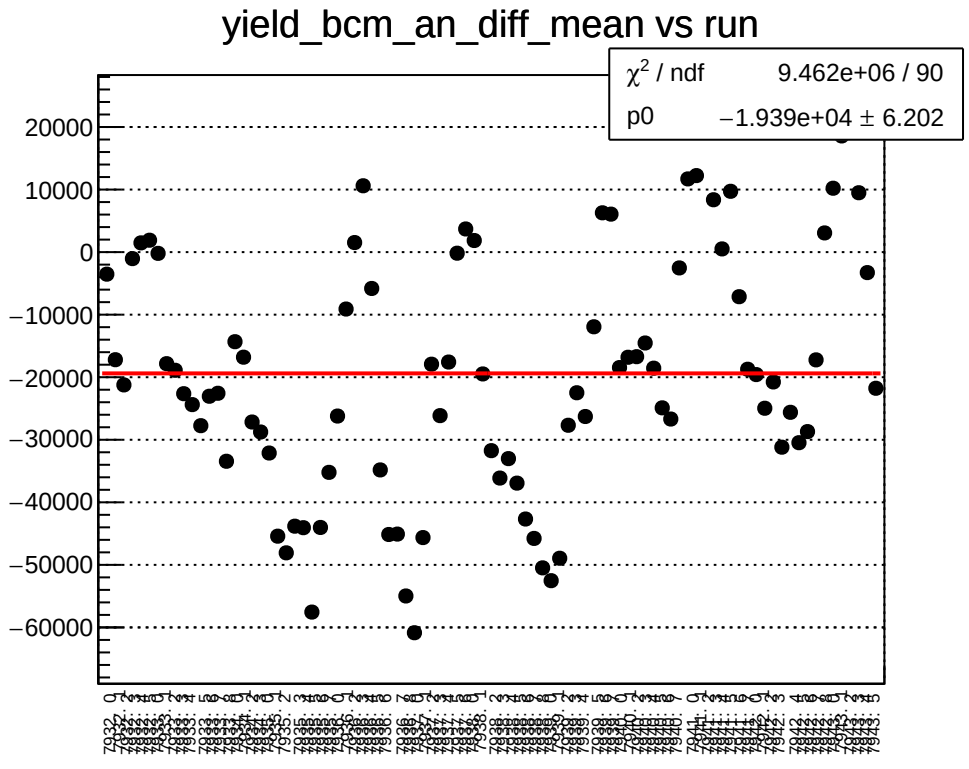

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1843 / 90
p0 157.7 ± 0.1193
180
175
170
165
160
155
150
145

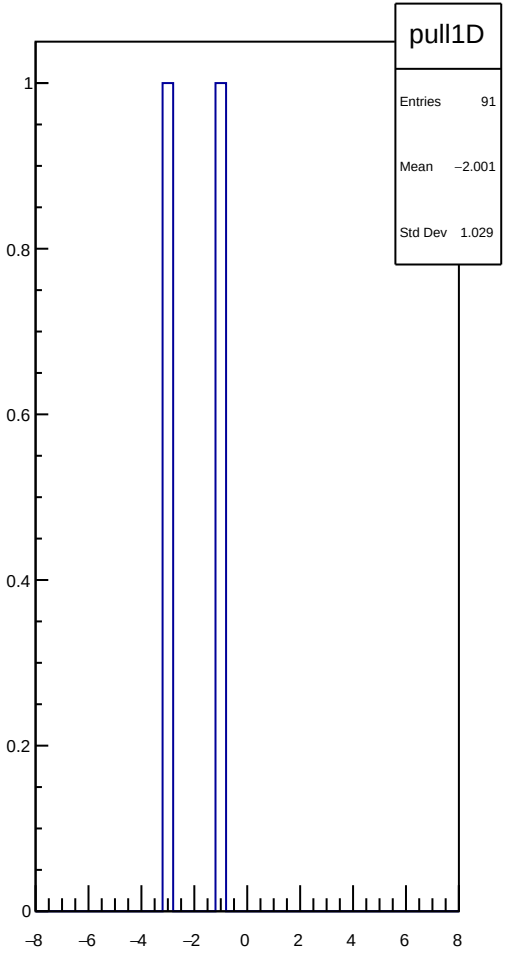

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.13 / 90
p0 −56.91 ± 31.34
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 554.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.003178
Std Dev 0.9841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

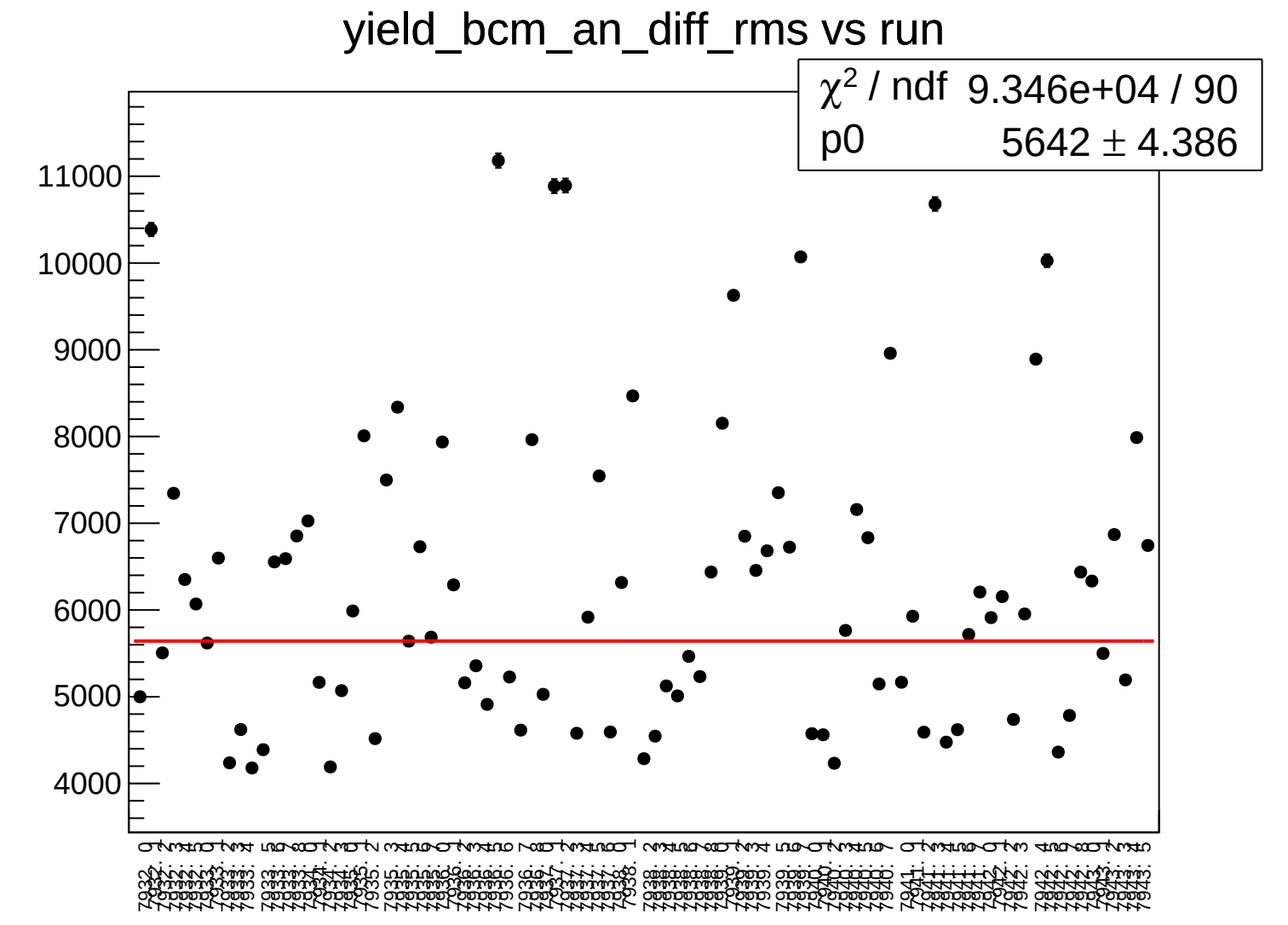

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2876 / 90
p0 29.28 ± 0.02216
32
31
30
29
28
27
26

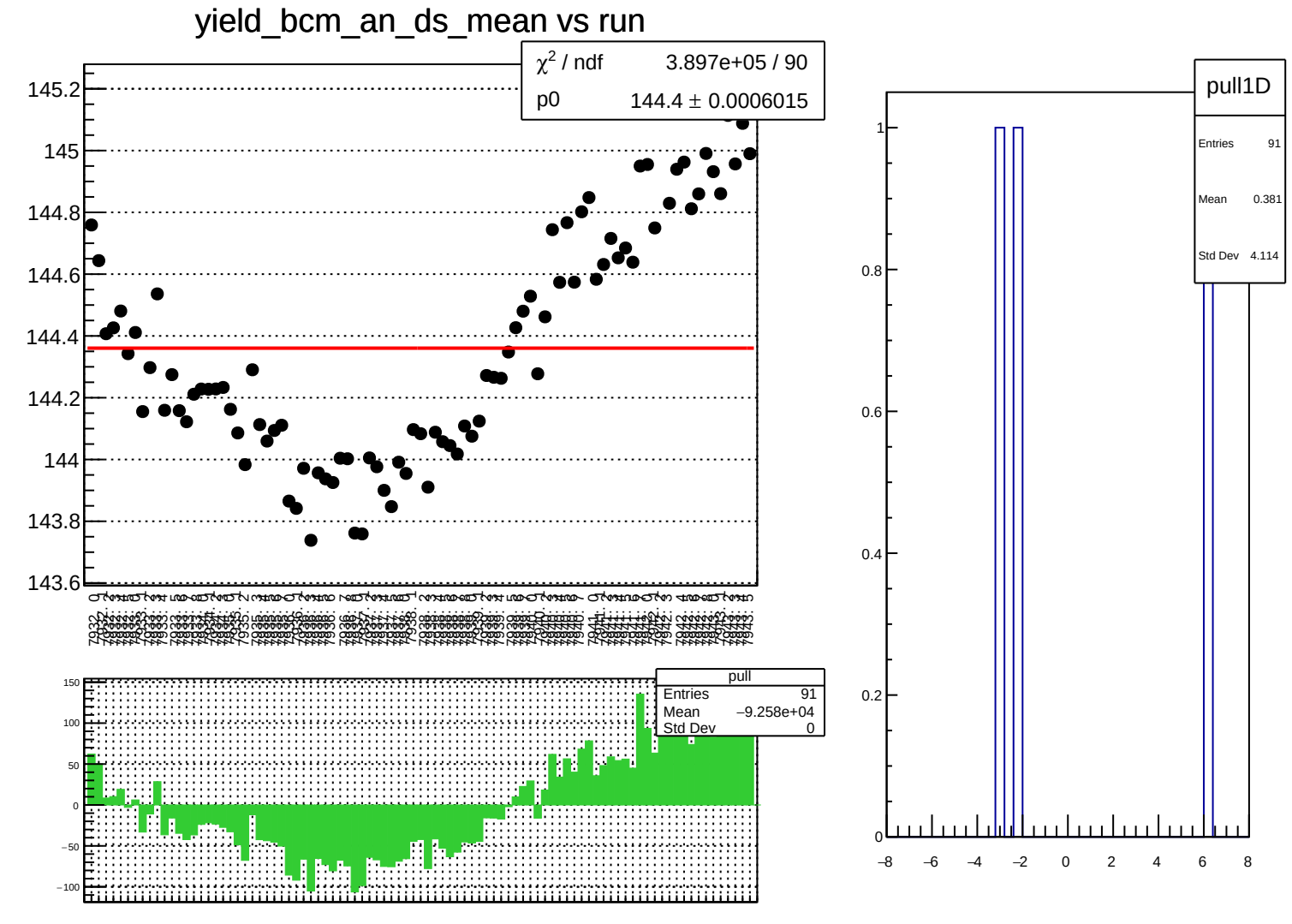

yield_bcm_target_mean vs run
χ² / ndf 4.274e+05 / 90
p0 144.3 ± 0.0006042
145.2
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 91
Mean 4258
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 91
Mean 2.808
Std Dev 1.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

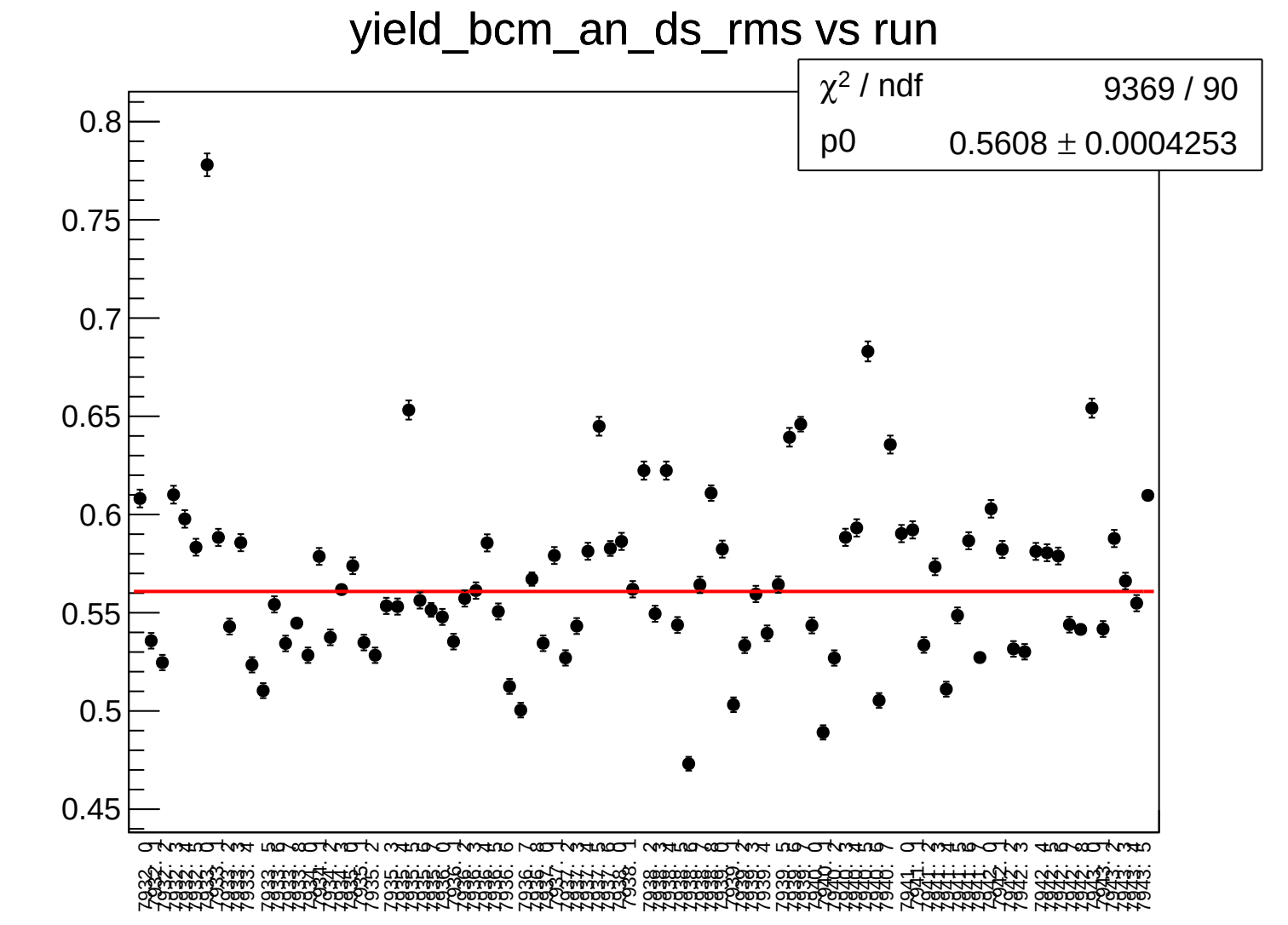

yield_bcm_target_rms vs run
χ^2 / ndf 9688 / 90
p0 0.5633 ± 0.0004272
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

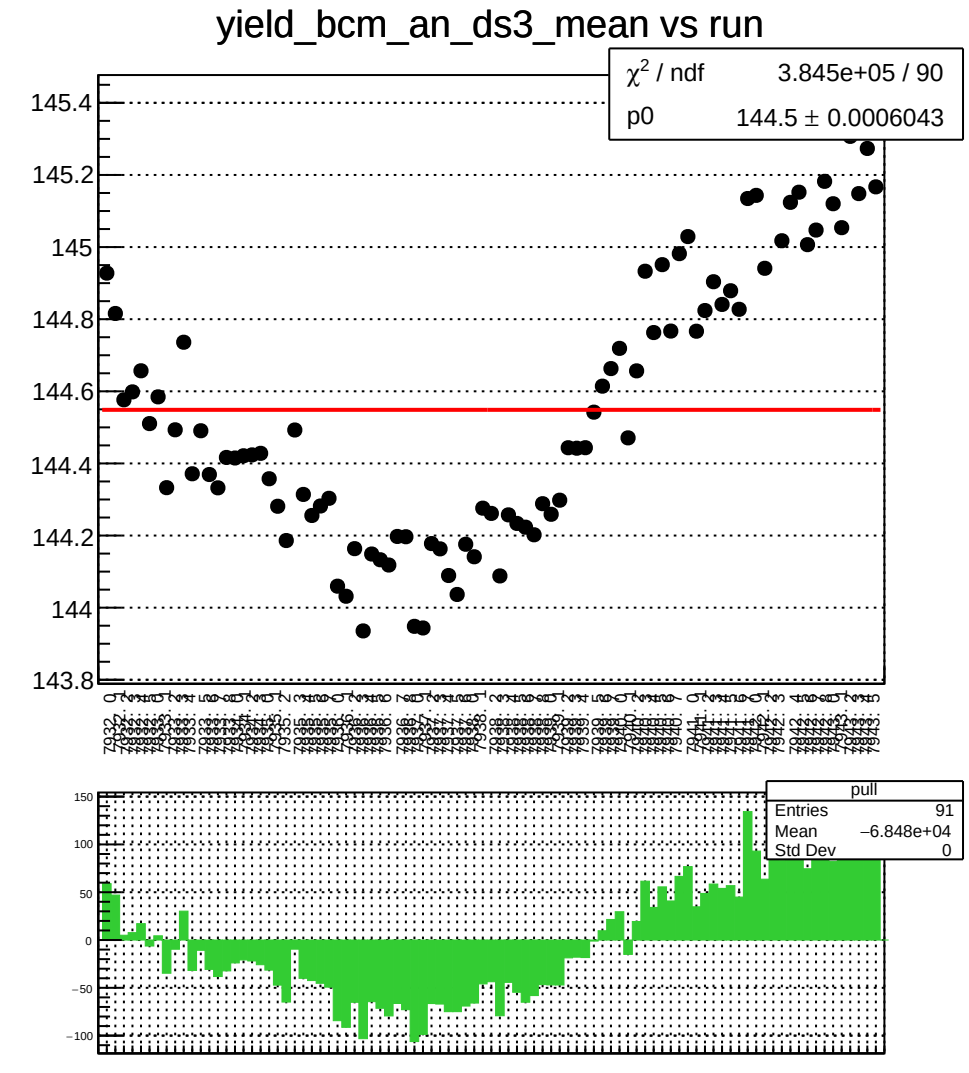

yield_bcm_an_diff_mean vs run
χ² / ndf 9.462e+06 / 90
p0 −1.939e+04 ± 6.202
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 91
Mean 5.531e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

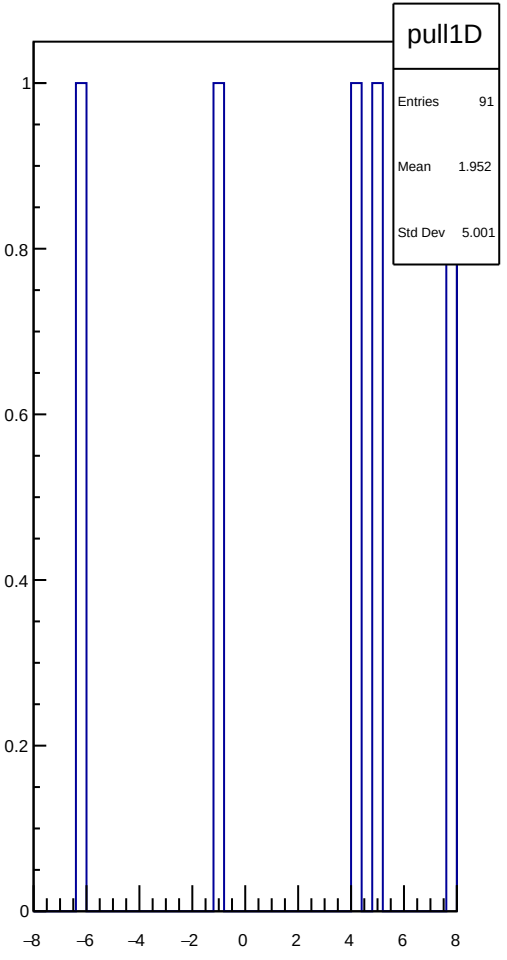

pull1D
Entries 91
Mean −2.001
Std Dev 1.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

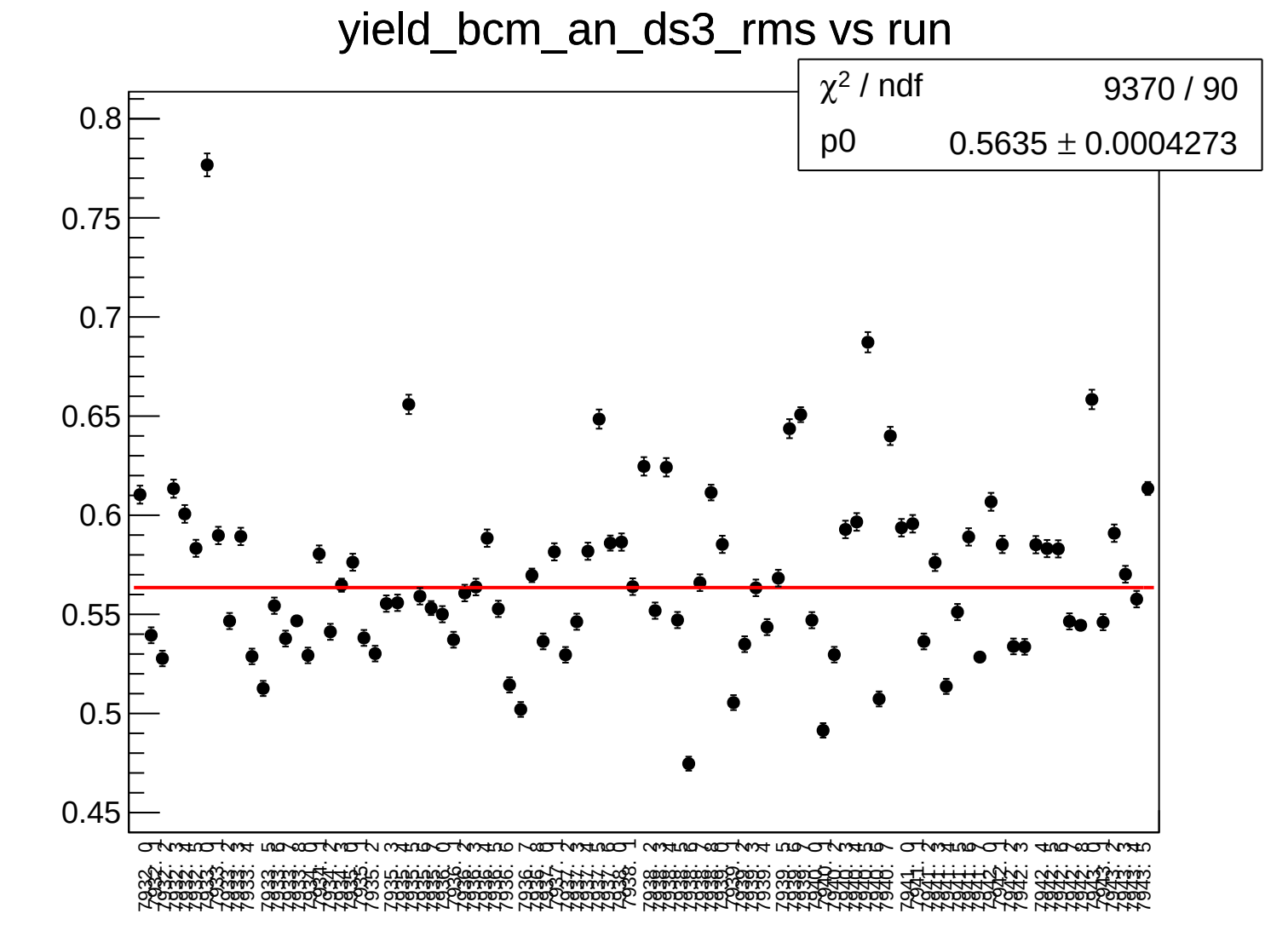

yield_bcm_an_diff_rms vs run
χ^2 / ndf 9.346e+04 / 90
p0 5642 ± 4.386
11000
10000
9000
8000
7000
6000
5000
4000

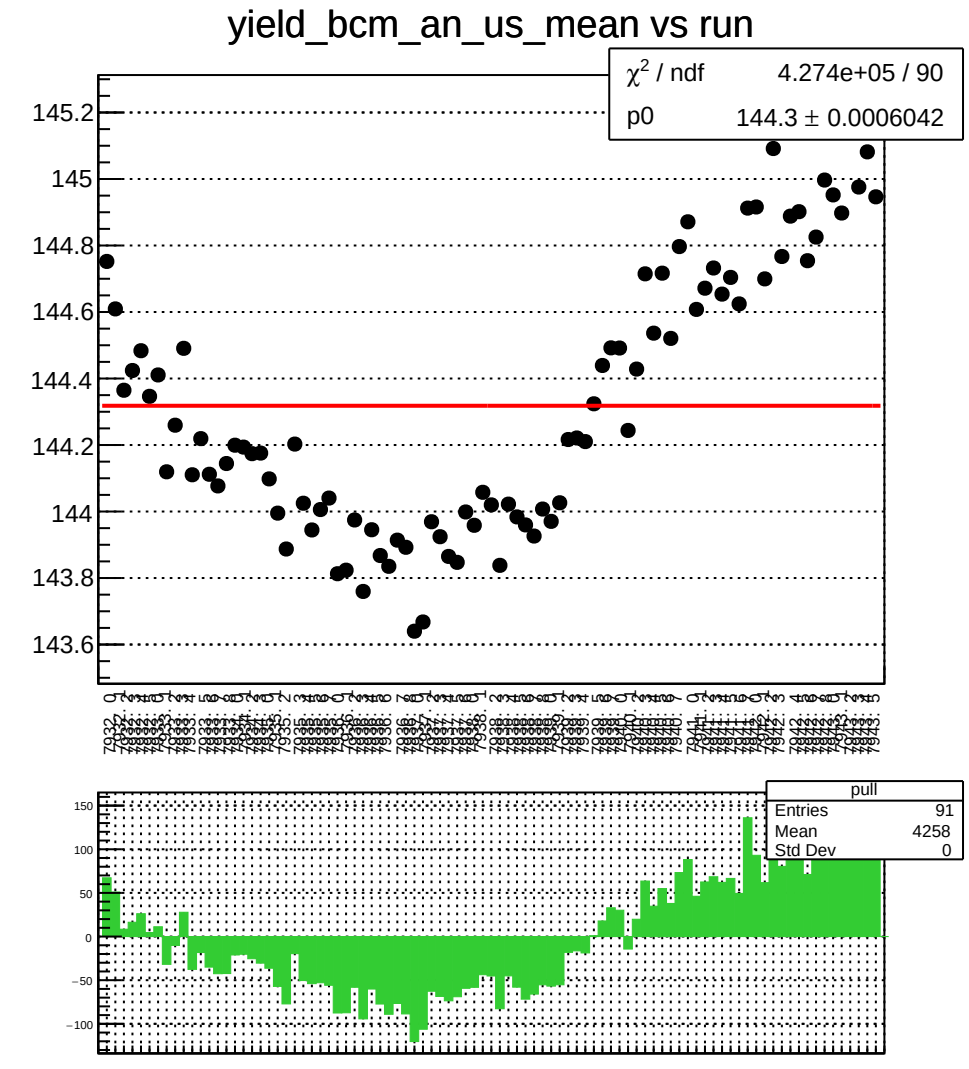

yield_bcm_an_ds_mean vs run
χ² / ndf 3.897e+05 / 90
p0 144.4 ± 0.0006015
145.2
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 91
Mean −9.258e+04
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 91
Mean 0.381
Std Dev 4.114
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

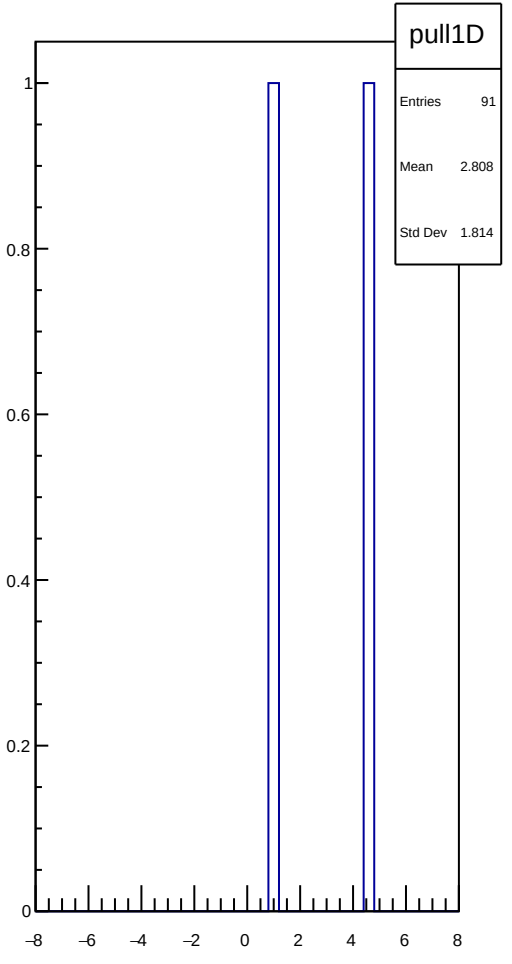

yield_bcm_an_ds_rms vs run
χ^2 / ndf 9369 / 90
p0 0.5608 ± 0.0004253
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

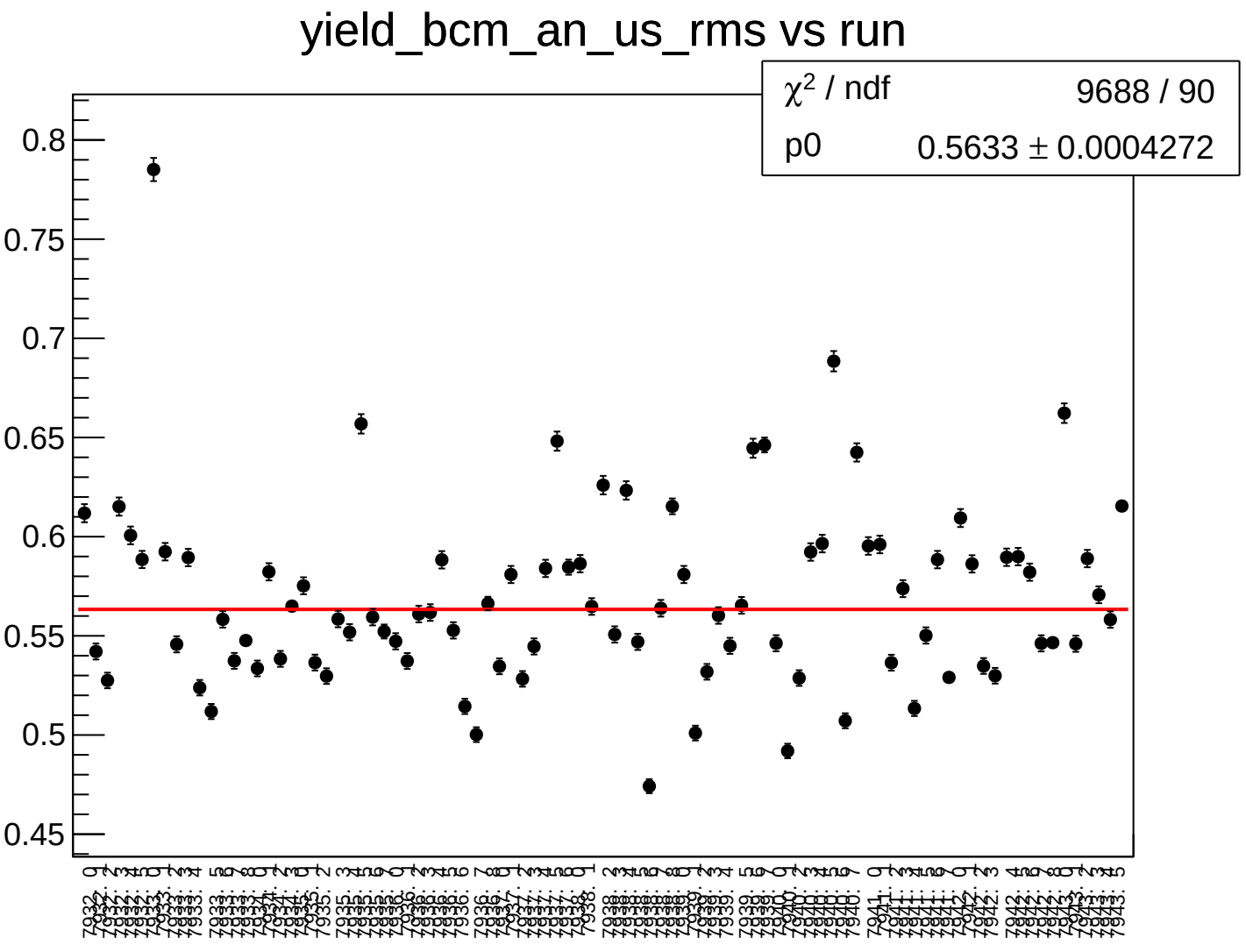

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.845e+05 / 90
p0 144.5 ± 0.0006043
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 91
Mean −6.848e+04
Std Dev 0
150
100
50
0
−50
−100

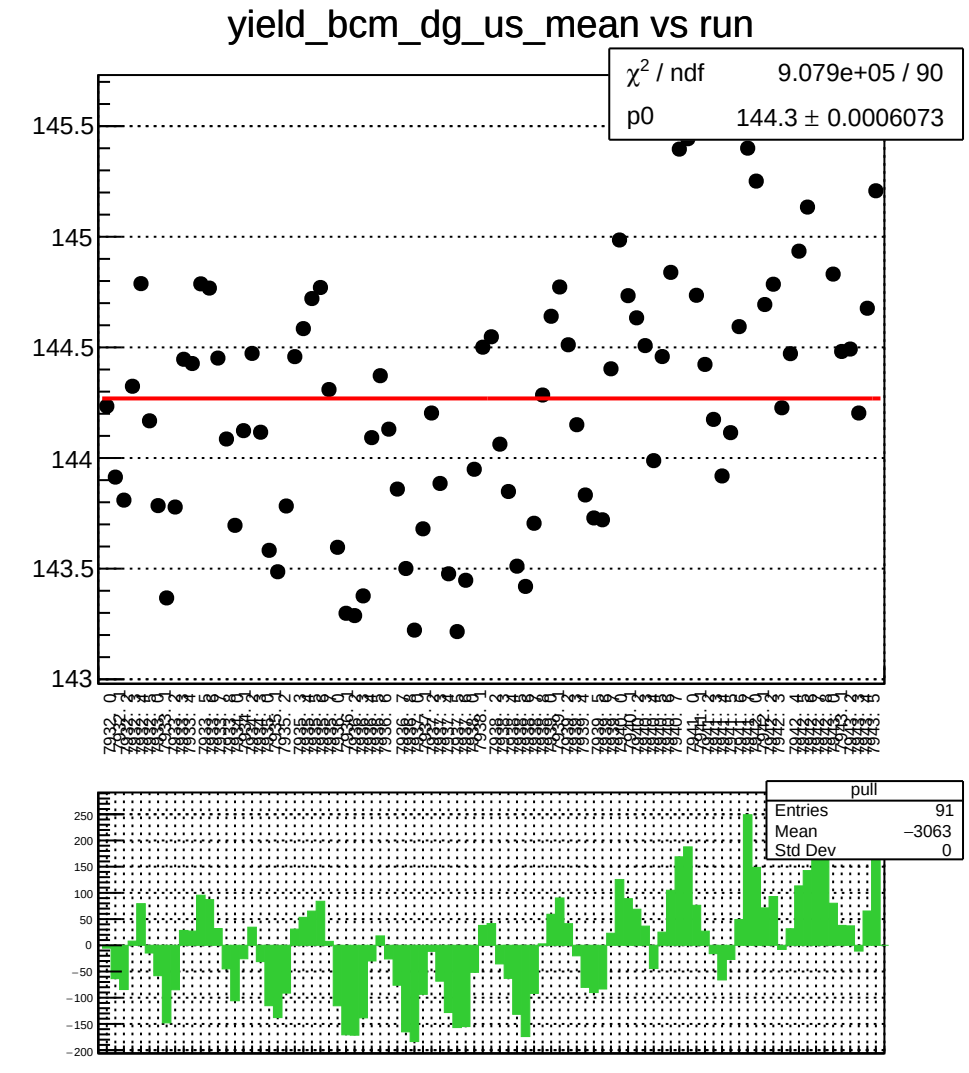

pull1D
Entries 91
Mean 1.952
Std Dev 5.001
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

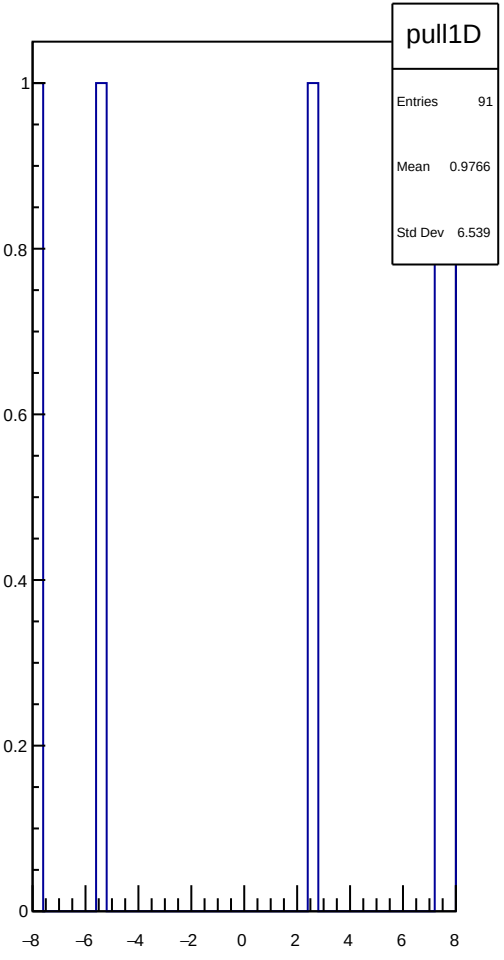

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 9370 / 90
p0 0.5635 ± 0.0004273
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

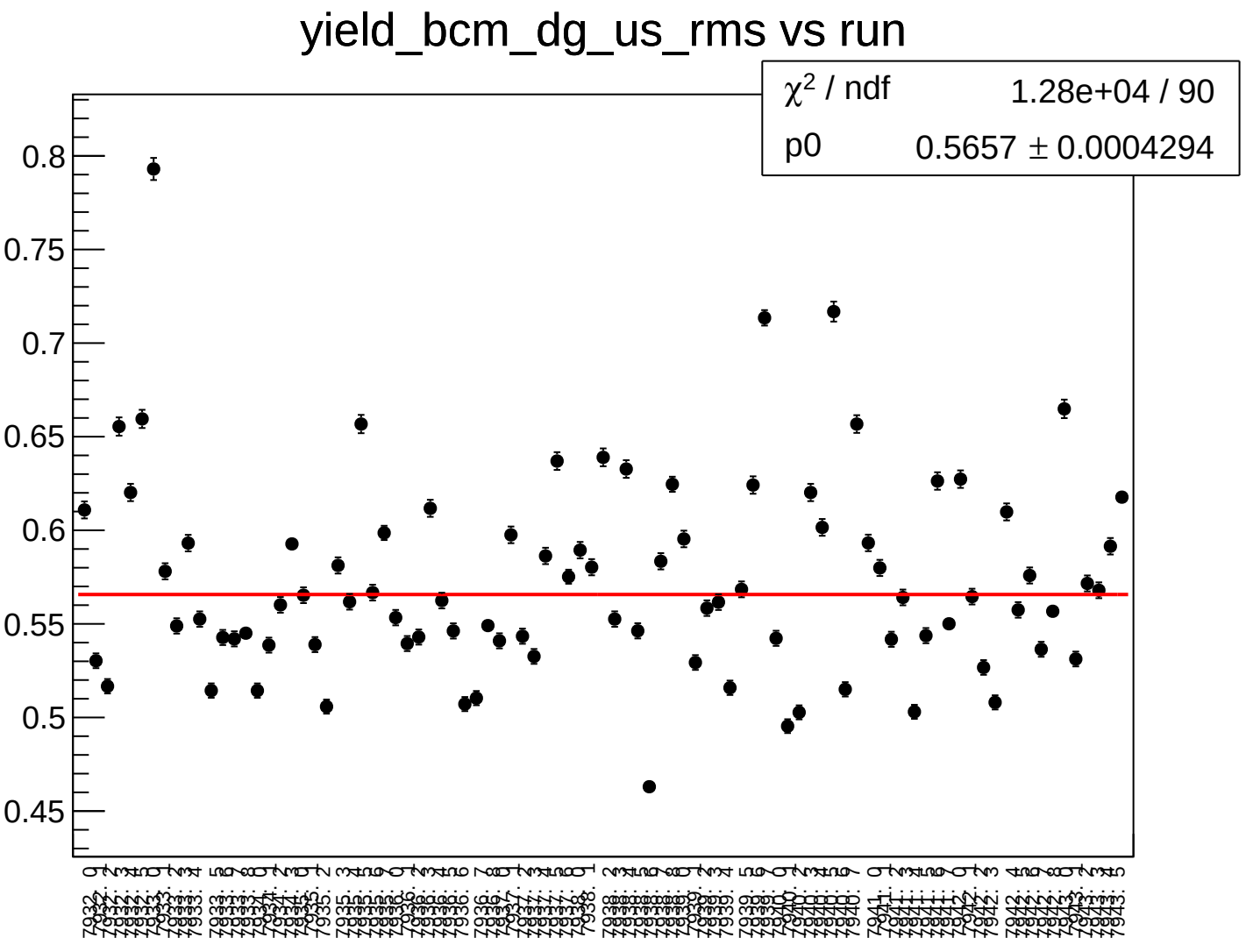

yield_bcm_an_us_mean vs run
χ² / ndf 4.274e+05 / 90
p0 144.3 ± 0.0006042
145.2
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 91
Mean 4258
Std Dev 0
150
100
50
0
−50
−100

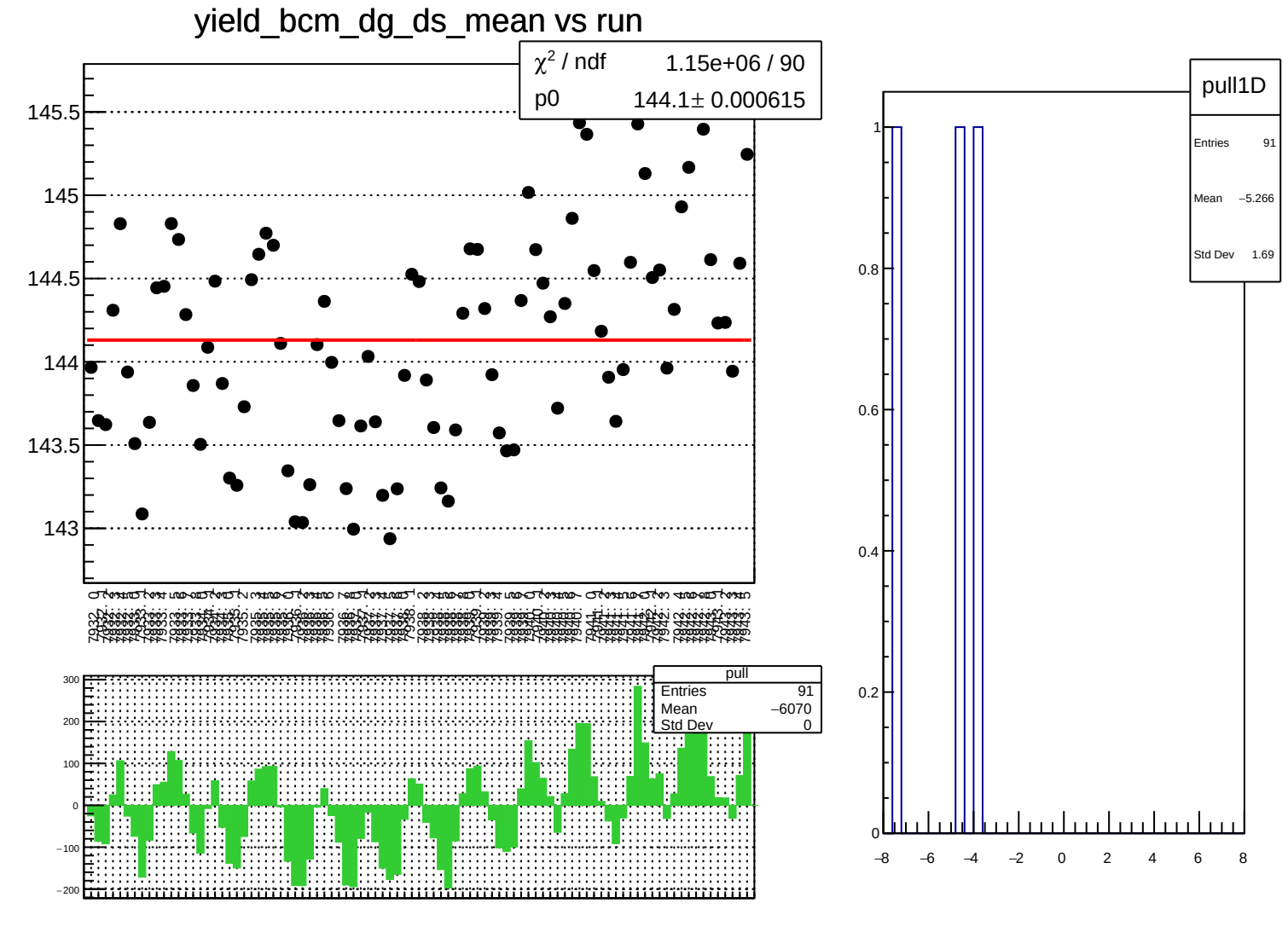

pull1D
Entries 91
Mean 2.808
Std Dev 1.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

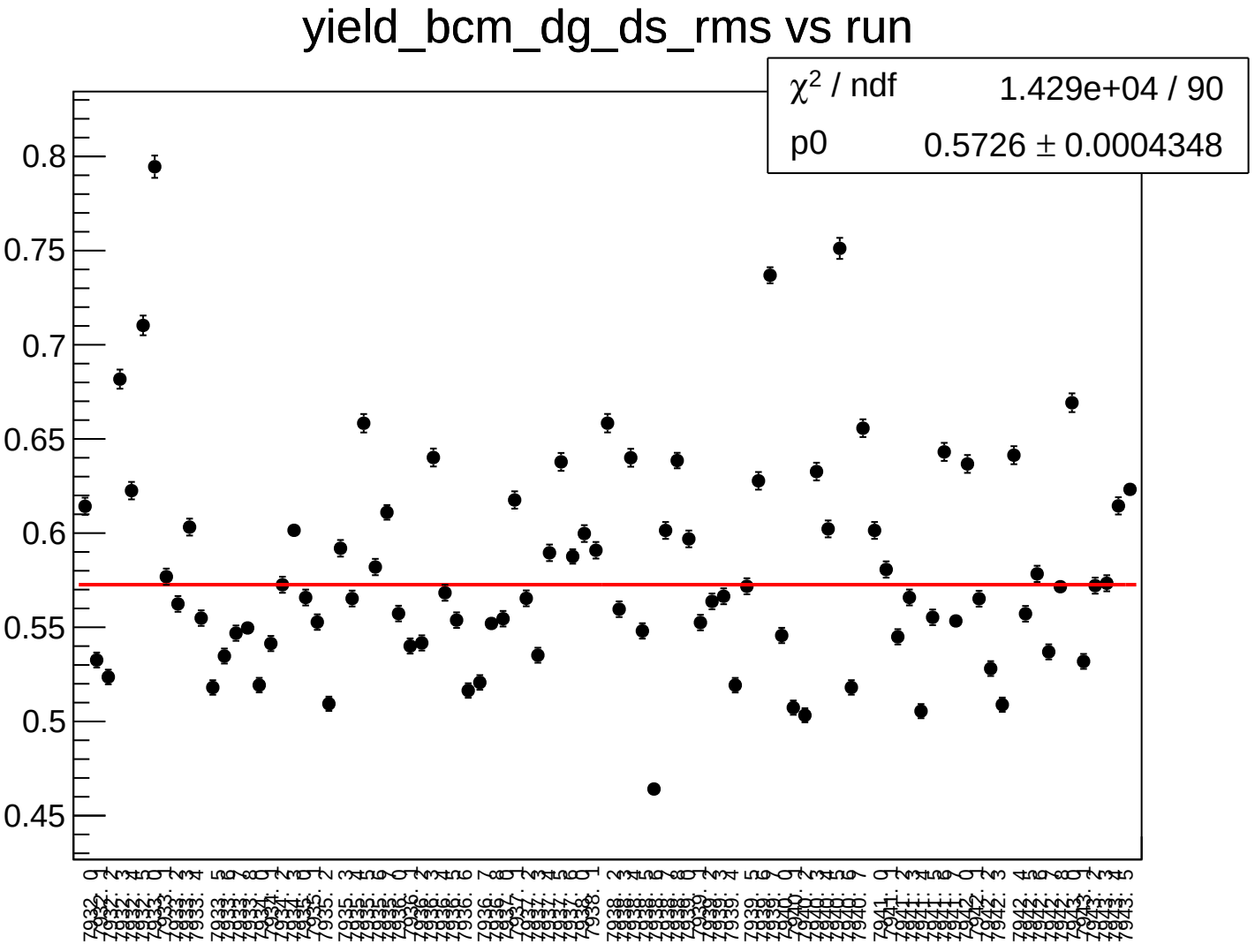

yield_bcm_an_us_rms vs run
χ² / ndf 9688 / 90
p0 0.5633 ± 0.0004272
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

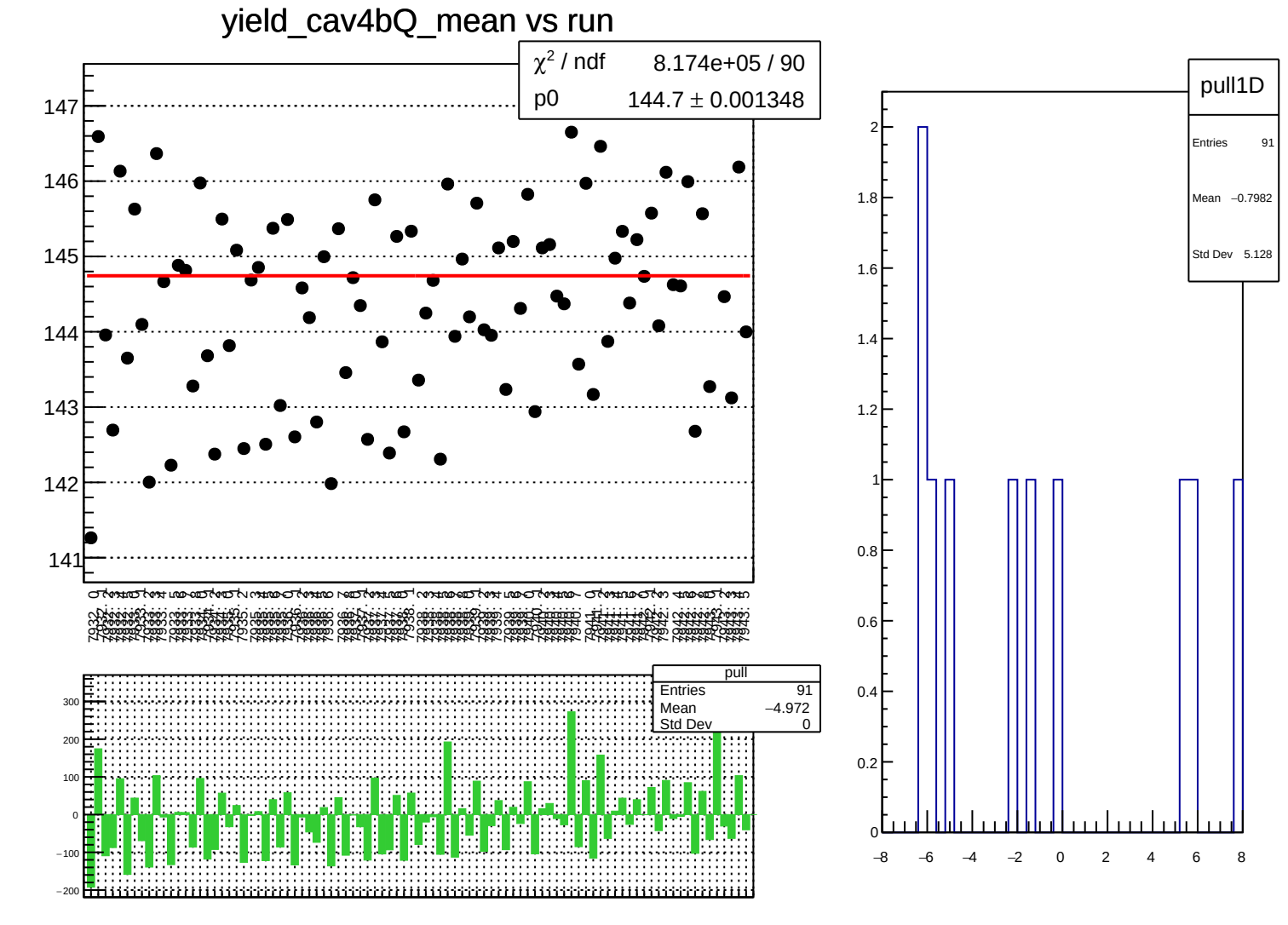

yield_bcm_dg_us_mean vs run
χ² / ndf 9.079e+05 / 90
p0 144.3 ± 0.0006073
145.5
145
144.5
144
143.5
143
pull
Entries 91
Mean −3063
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

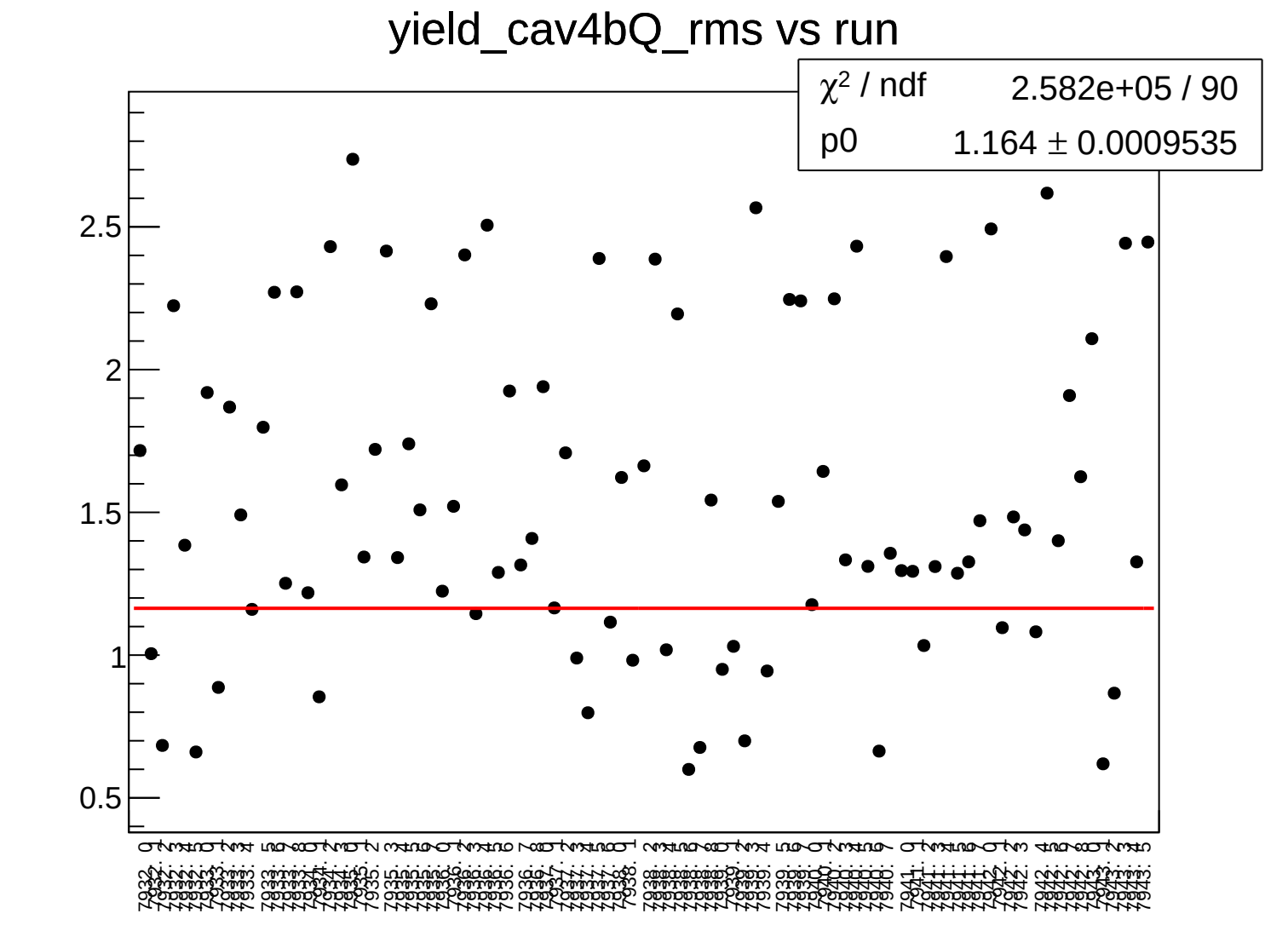

pull1D
Entries 91
Mean 0.9766
Std Dev 6.539
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

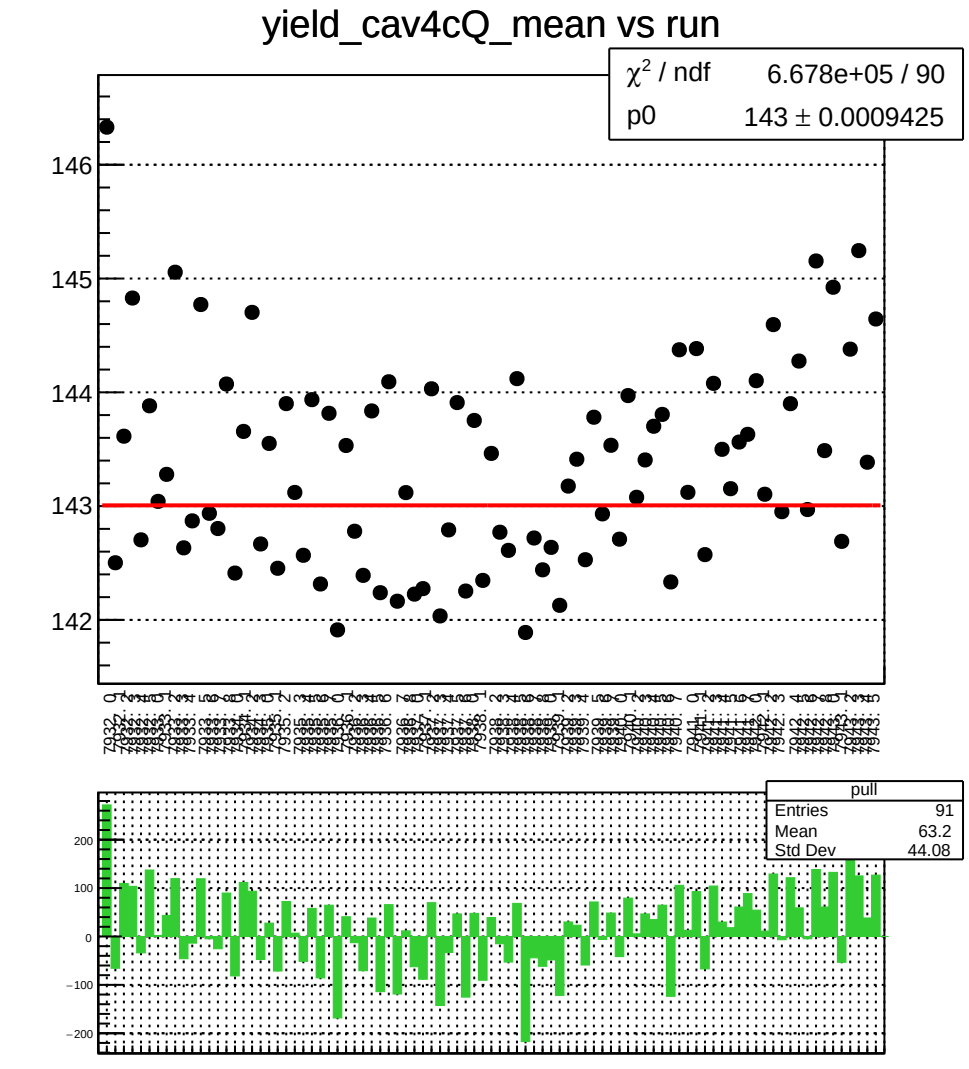

yield_bcm_dg_us_rms vs run
χ² / ndf 1.28e+04 / 90
p0 0.5657 ± 0.0004294
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

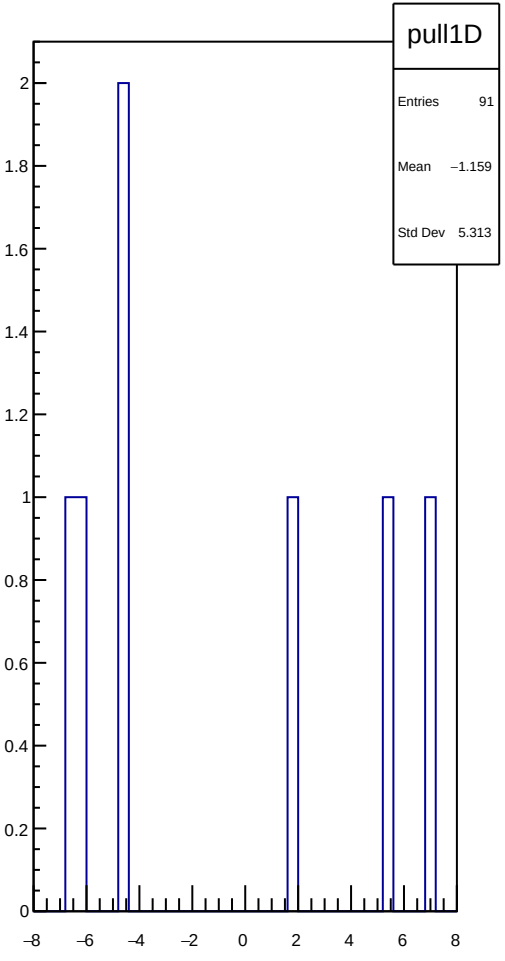

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.15e+06 / 90
p0 144.1± 0.000615
145.5
145
144.5
144
143.5
143
pull
Entries 91
Mean −6070
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 91
Mean −5.266
Std Dev 1.69
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

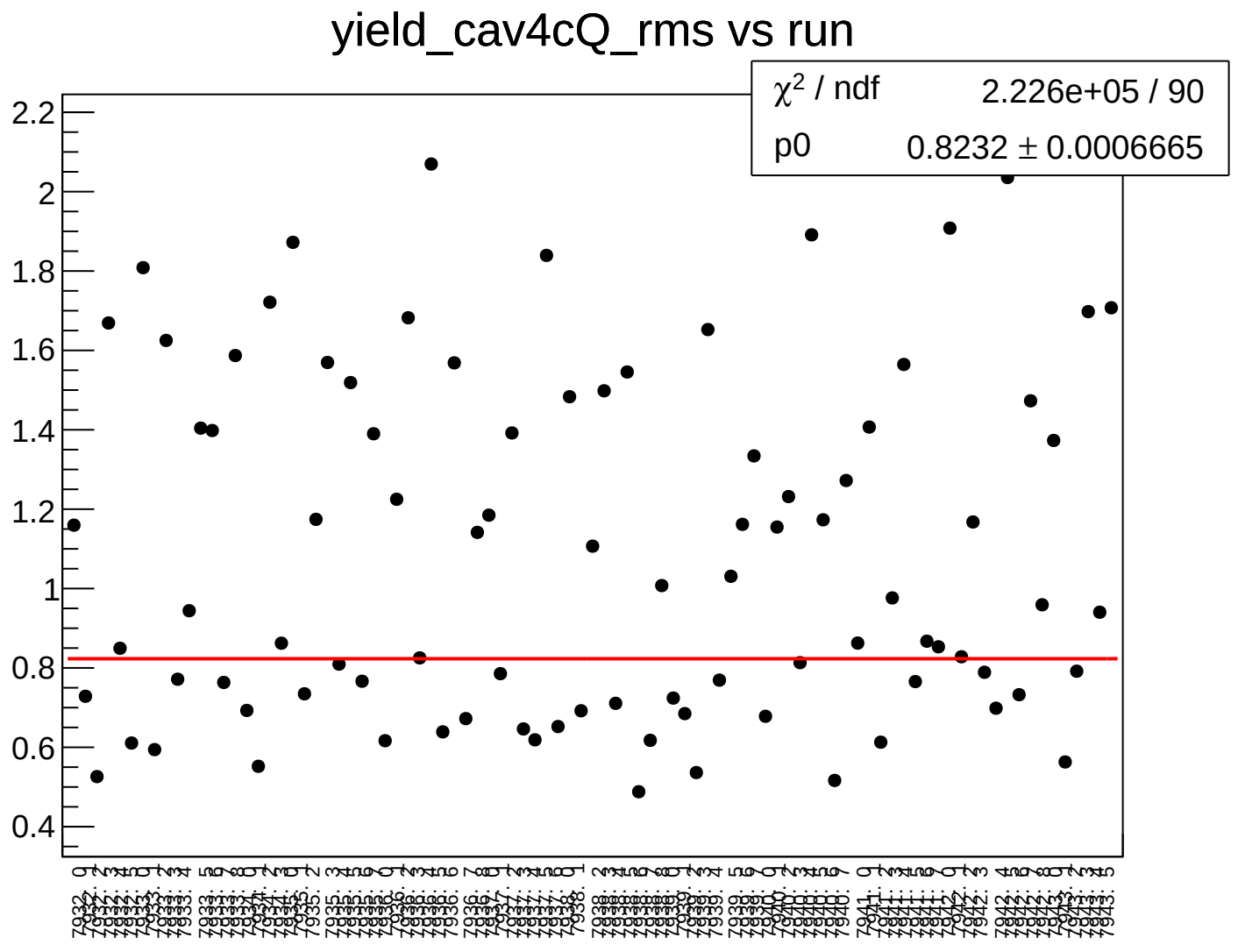

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.429e+04 / 90
p0 0.5726 ± 0.0004348
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

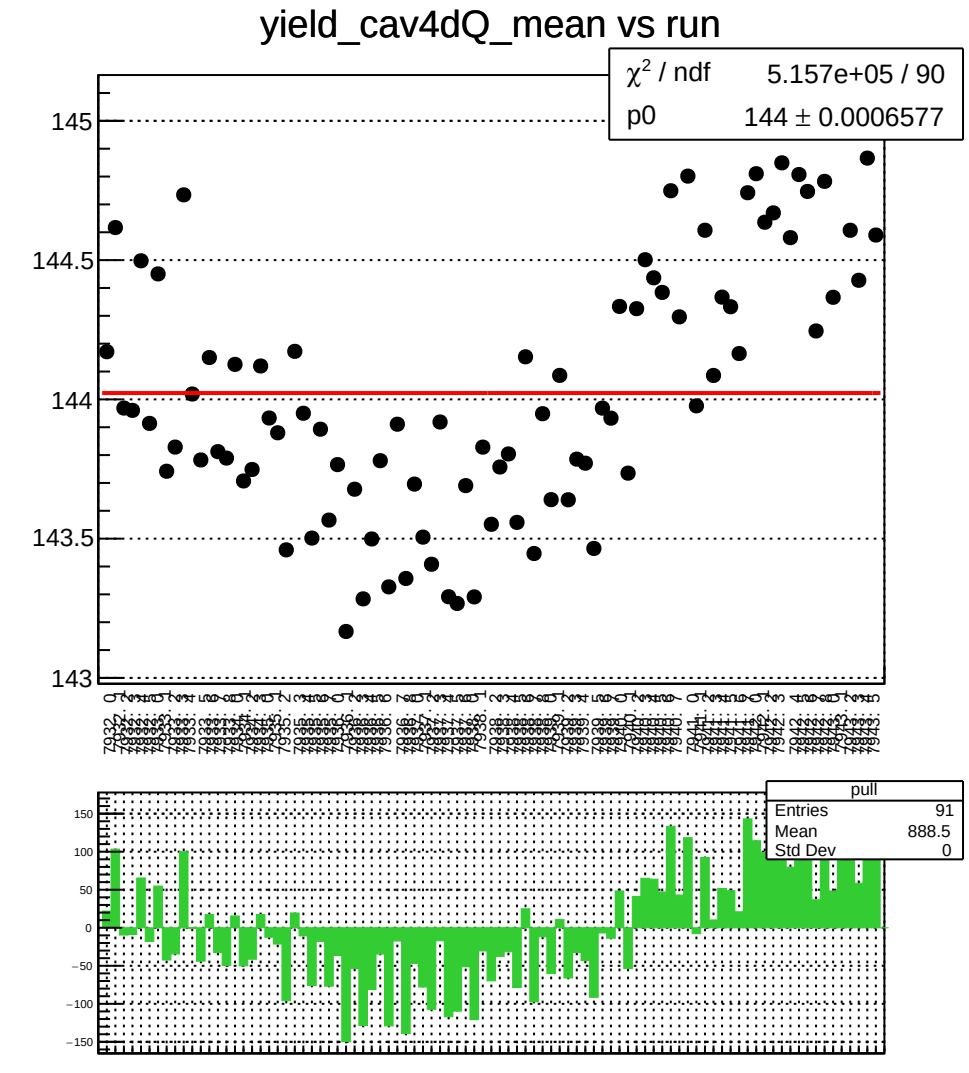

yield_cav4bQ_mean vs run
χ² / ndf 8.174e+05 / 90
p0 144.7 ± 0.001348
147
146
145
144
143
142
141
pull
Entries 91
Mean −4.972
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 91
Mean −0.7982
Std Dev 5.128
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

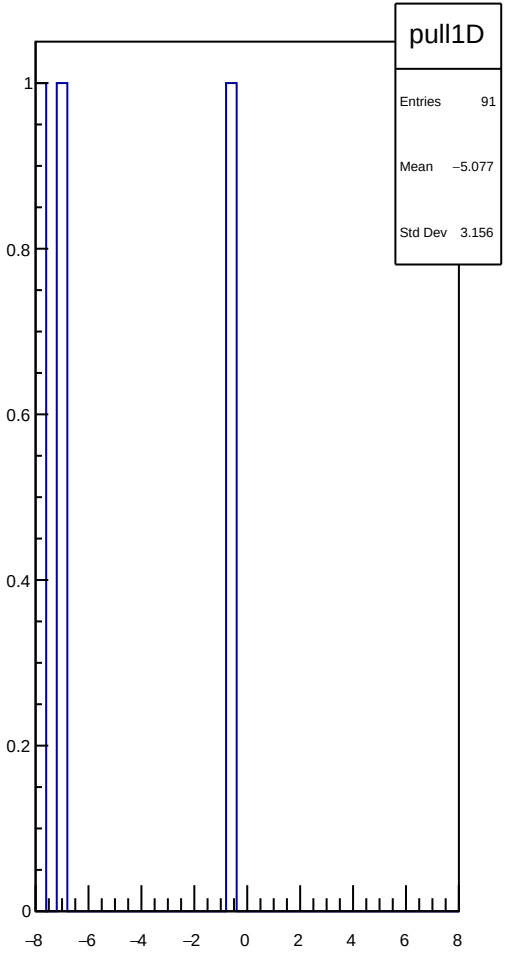

yield_cav4bQ_rms vs run
χ² / ndf 2.582e+05 / 90
p0 1.164 ± 0.0009535
2.5
2
1.5
1
0.5

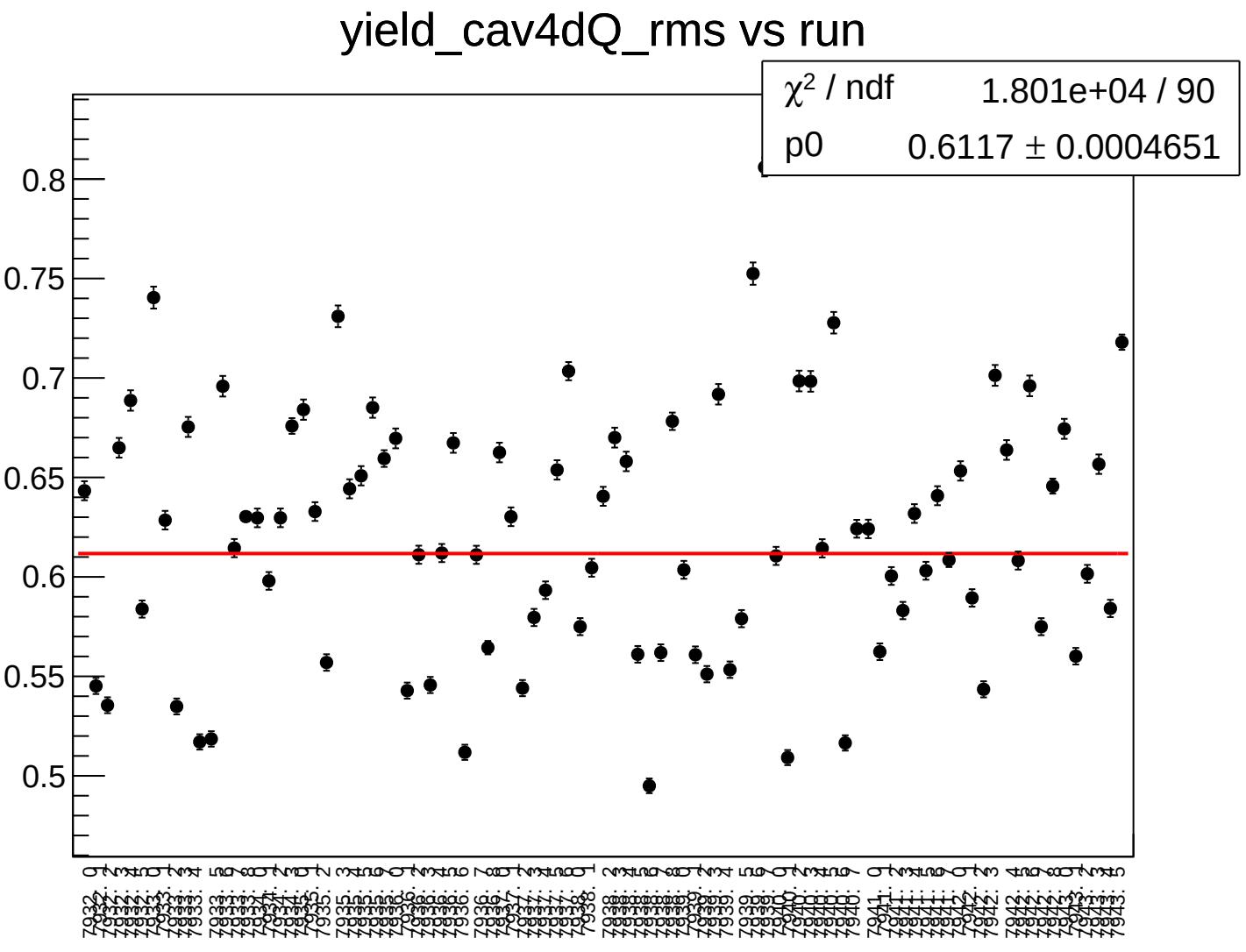

yield_cav4cQ_mean vs run
χ² / ndf 6.678e+05 / 90
p0 143 ± 0.0009425
146
145
144
143
142
pull
Entries 91
Mean 63.2
Std Dev 44.08
200
100
0
−100
−200

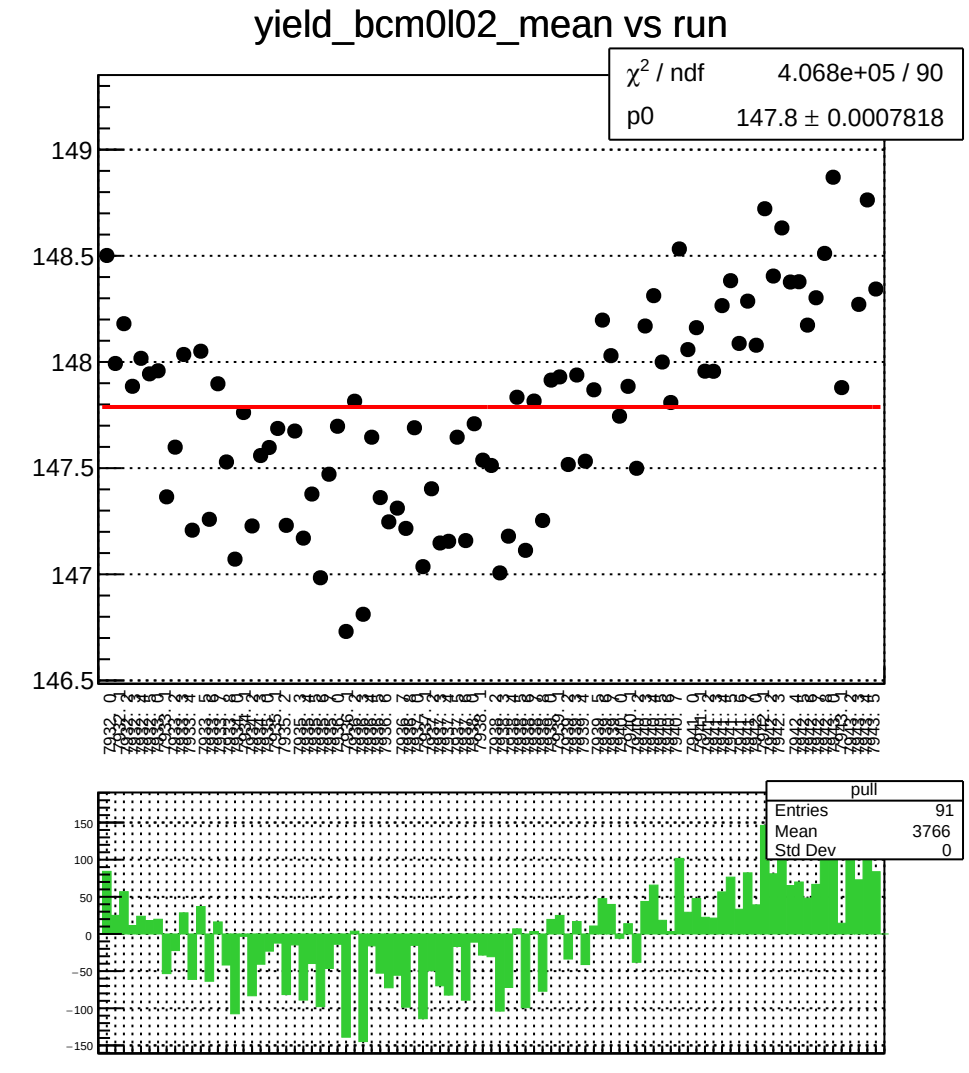

pull1D
Entries 91
Mean −1.159
Std Dev 5.313
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

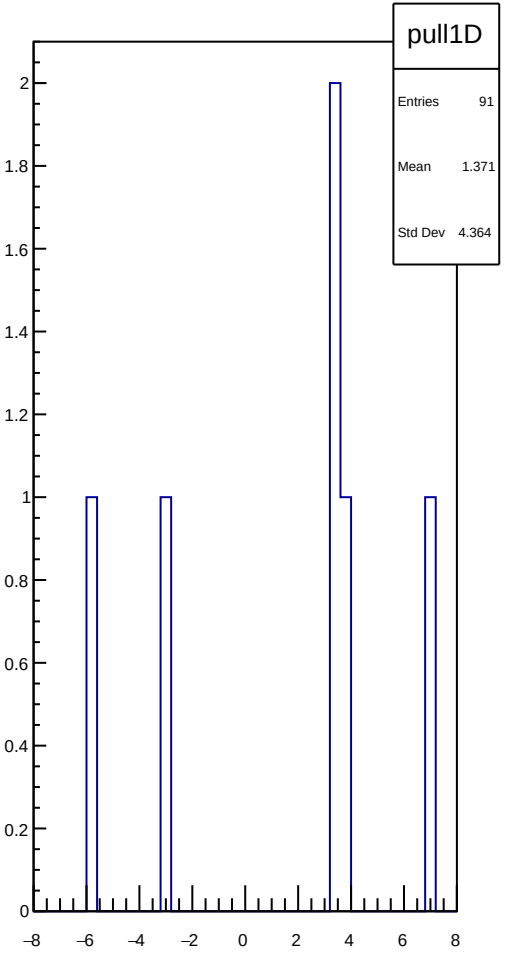

yield_cav4cQ_rms vs run
χ² / ndf 2.226e+05 / 90
p0 0.8232 ± 0.0006665
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

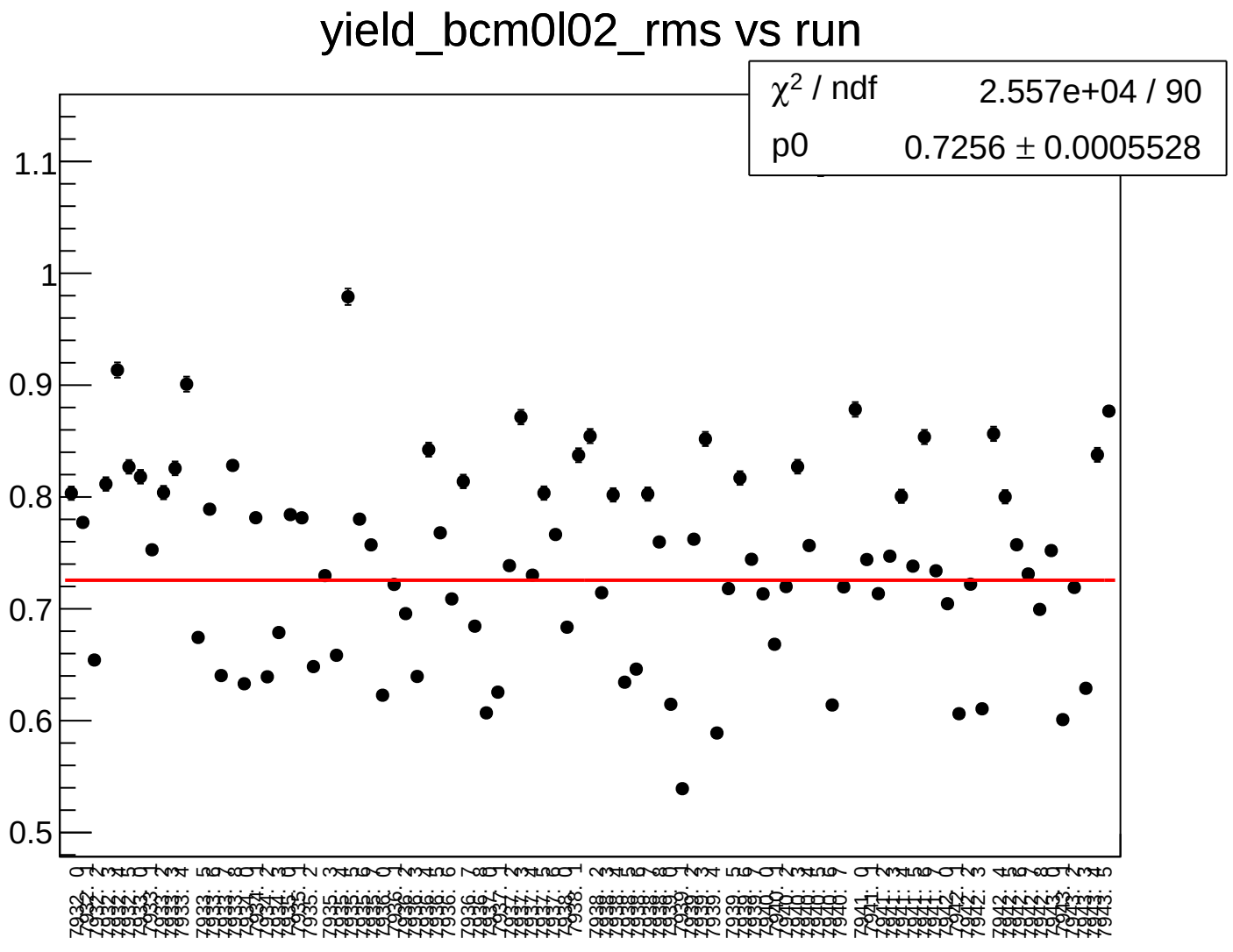

yield_cav4dQ_mean vs run
χ² / ndf 5.157e+05 / 90
p0 144 ± 0.0006577
145
144.5
144
143.5
143
pull
Entries 91
Mean 888.5
Std Dev 0
150
100
50
0
−50
−100
−150

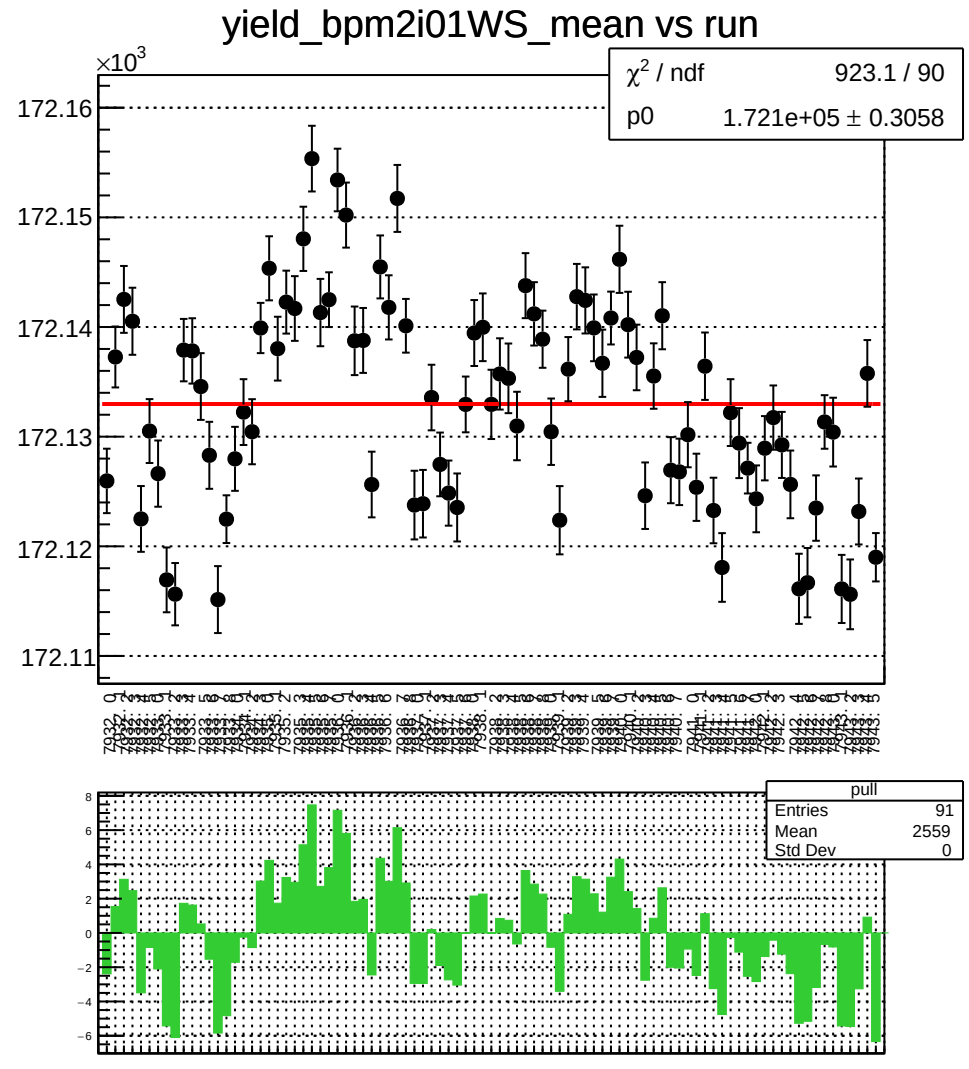

pull1D
Entries 91
Mean −5.077
Std Dev 3.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

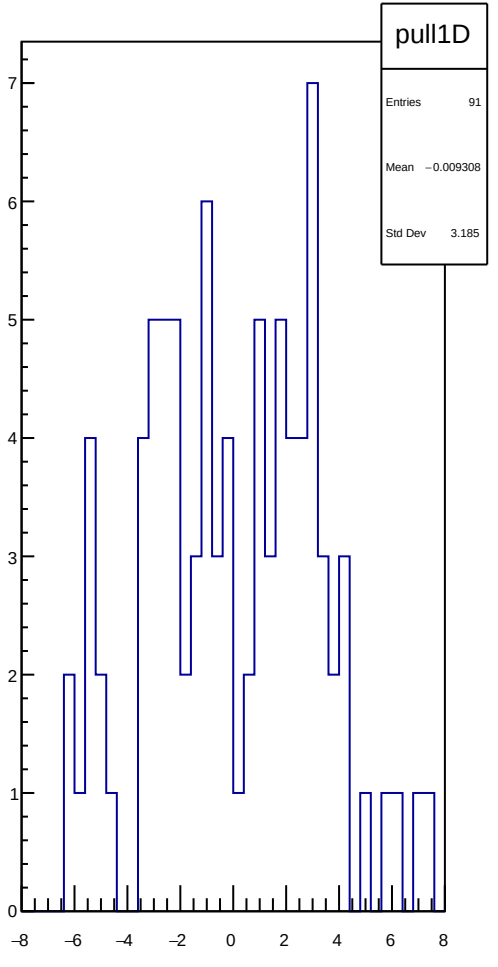

yield_cav4dQ_rms vs run
χ² / ndf 1.801e+04 / 90
p0 0.6117 ± 0.0004651
0.8
0.75
0.7
0.65
0.6
0.55
0.5

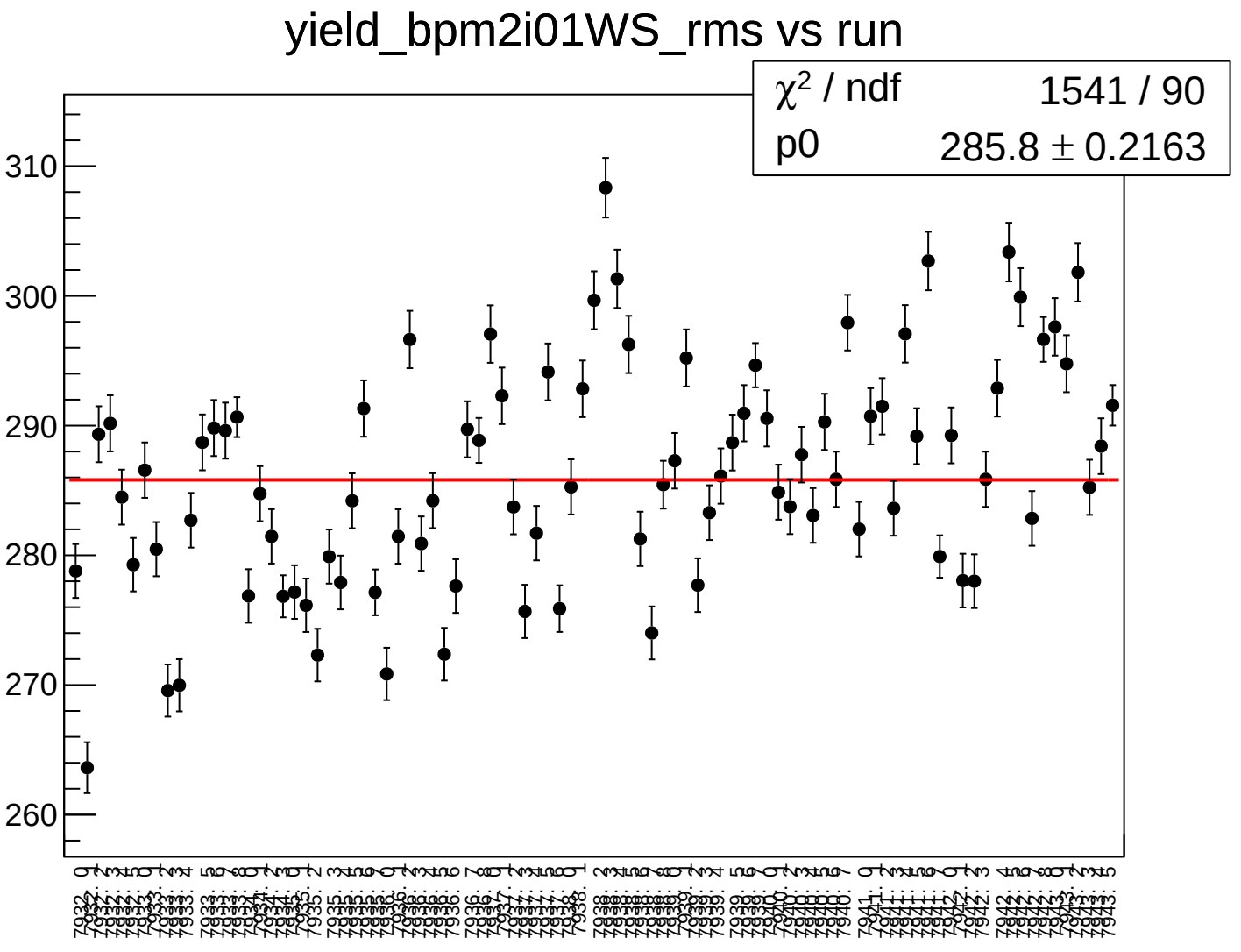

yield_bcm0l02_mean vs run
χ² / ndf 4.068e+05 / 90
p0 147.8 ± 0.0007818
149
148.5
148
147.5
147
146.5
pull
Entries 91
Mean 3766
Std Dev 0
150
100
50
0
−50
−100
−150

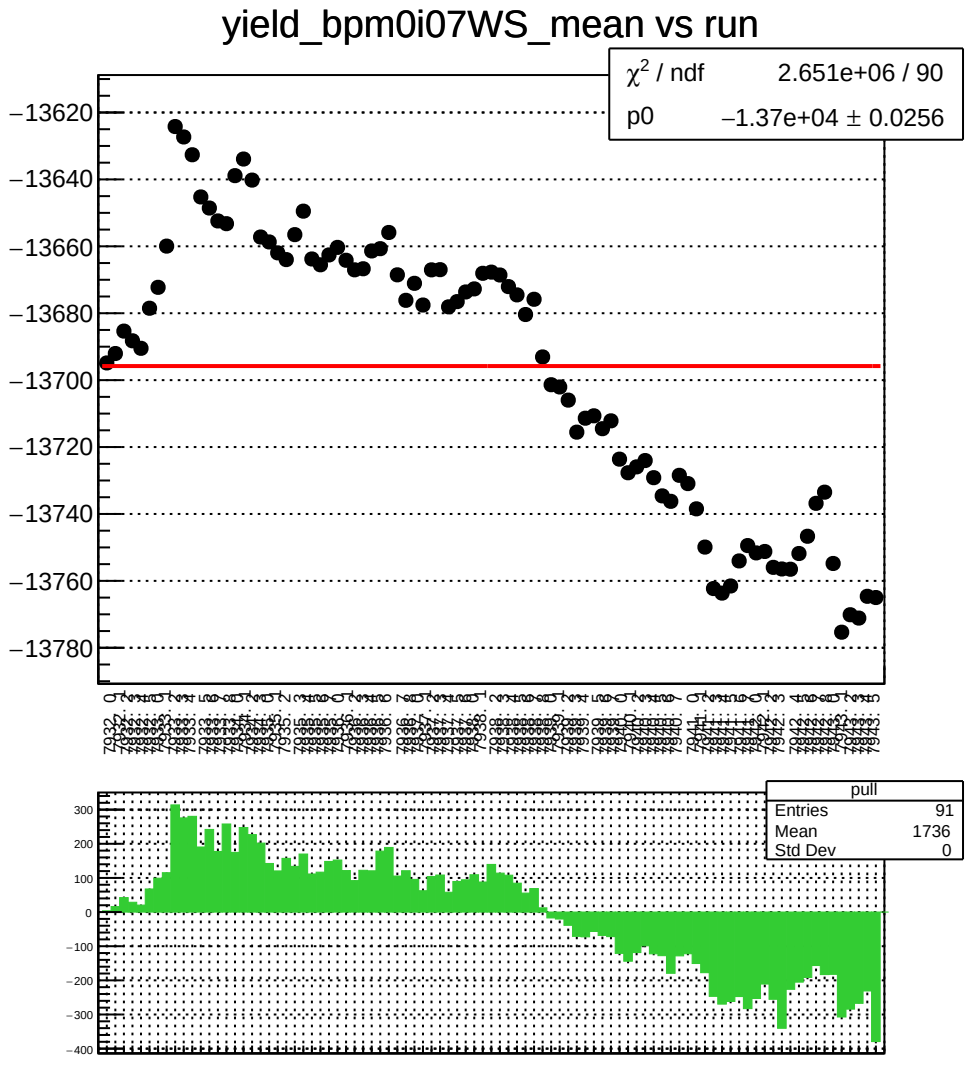

pull1D
Entries 91
Mean 1.371
Std Dev 4.364
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

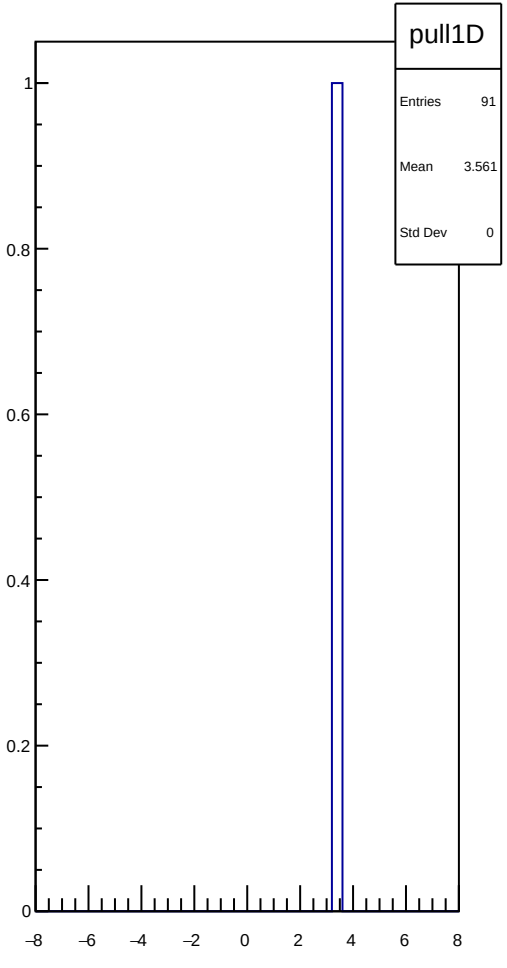

yield_bcm0l02_rms vs run
χ² / ndf 2.557e+04 / 90
p0 0.7256 ± 0.0005528
1.1
1
0.9
0.8
0.7
0.6
0.5

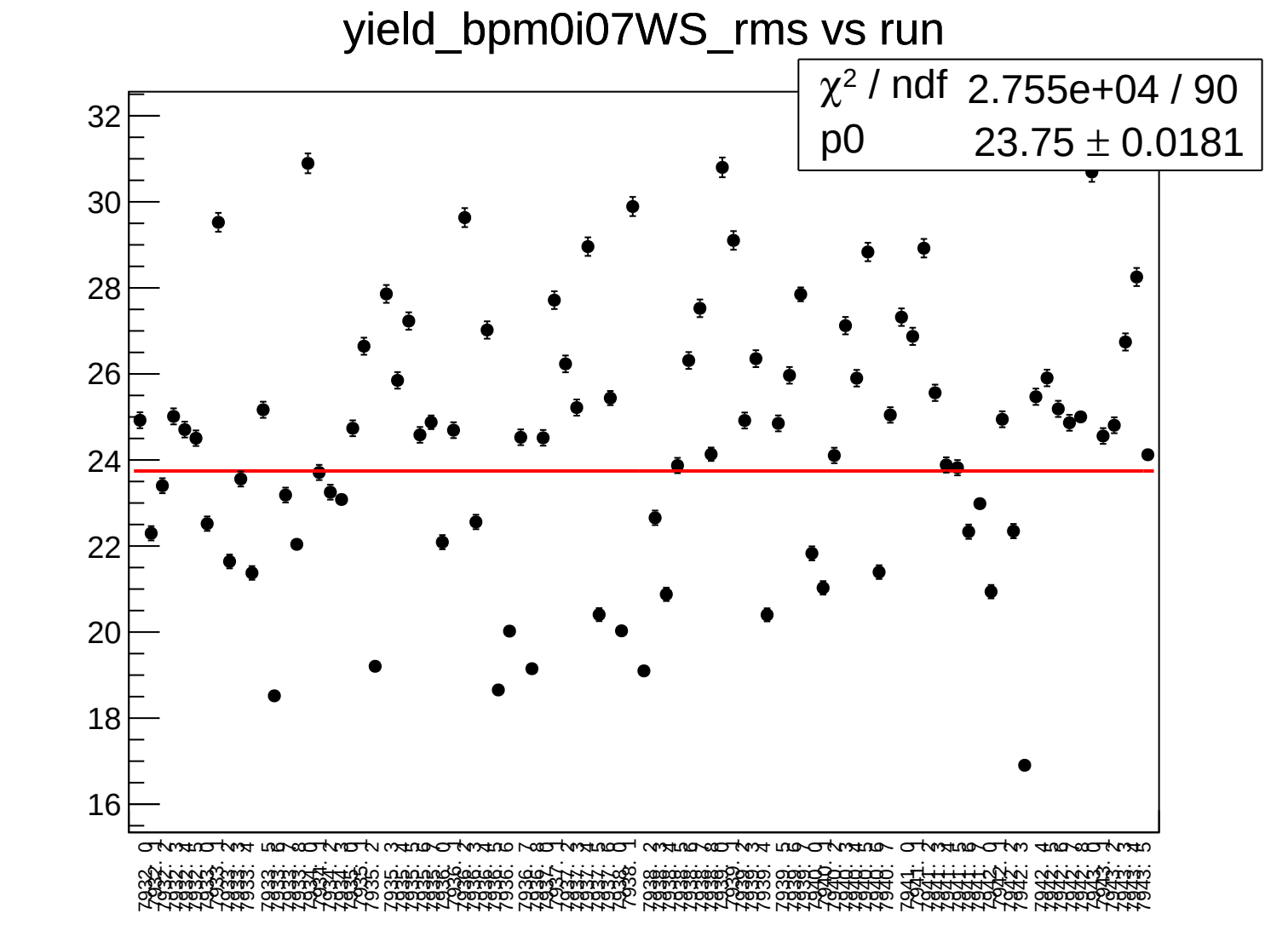

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 923.1 / 90
p0 1.721e+05 ± 0.3058
172.16
172.15
172.14
172.13
172.12
172.11
pull
Entries 91
Mean 2559
Std Dev 0

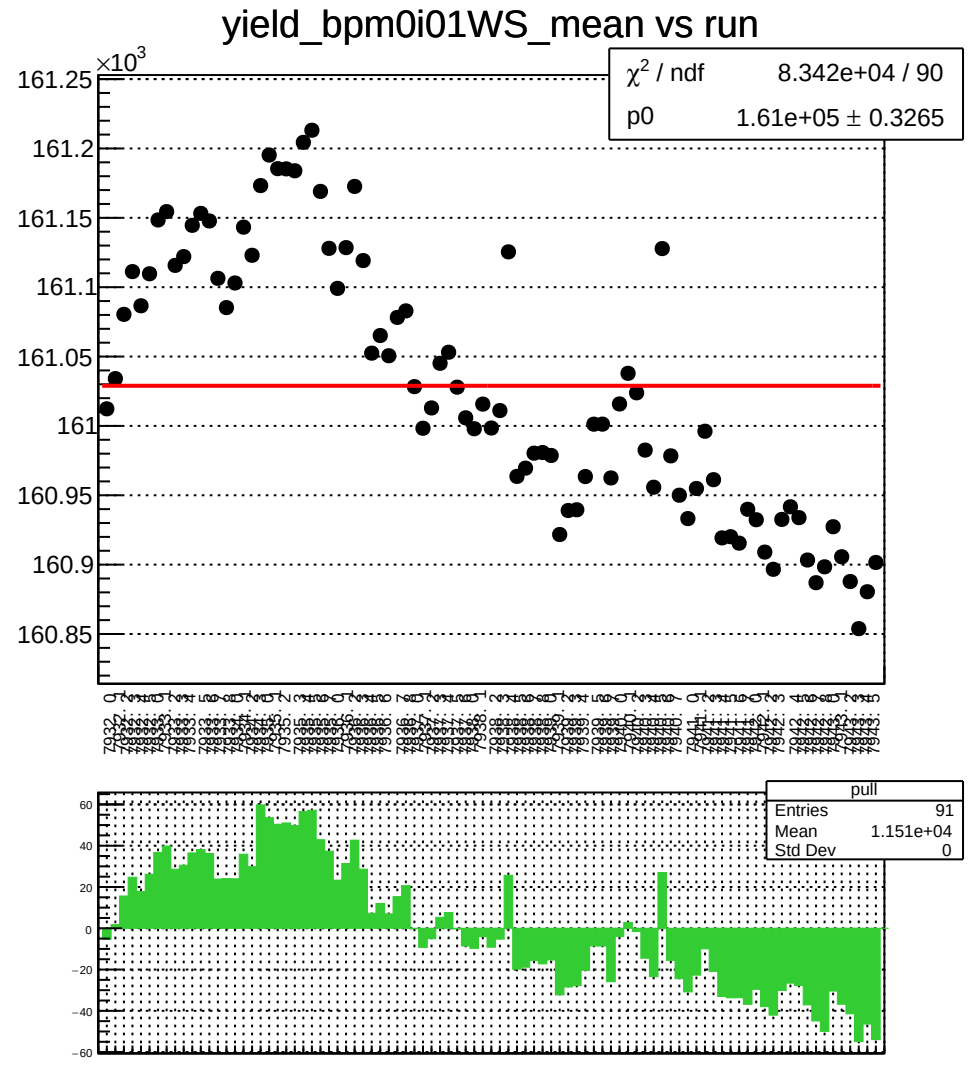

pull1D
Entries 91
Mean −0.009308
Std Dev 3.185

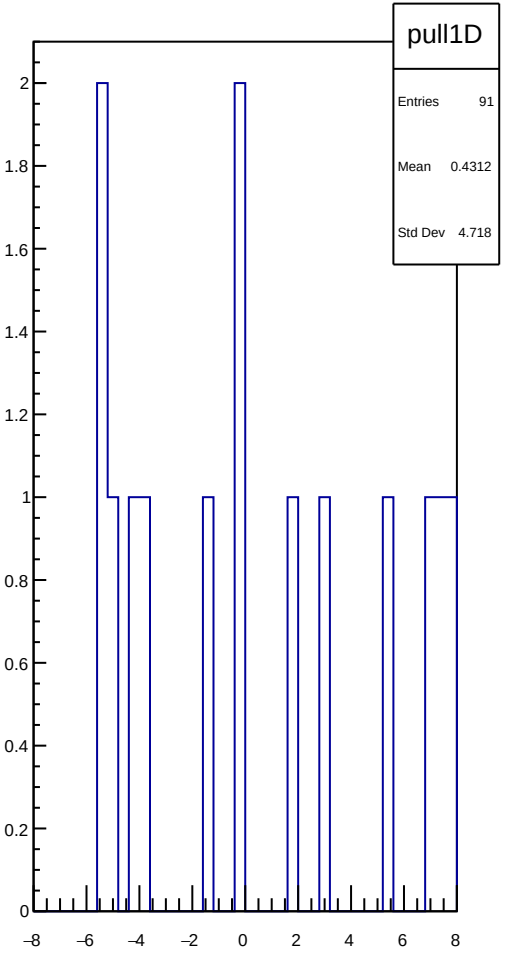

yield_bpm2i01WS_rms vs run
χ² / ndf 1541 / 90
p0 285.8 ± 0.2163
310
300
290
280
270
260

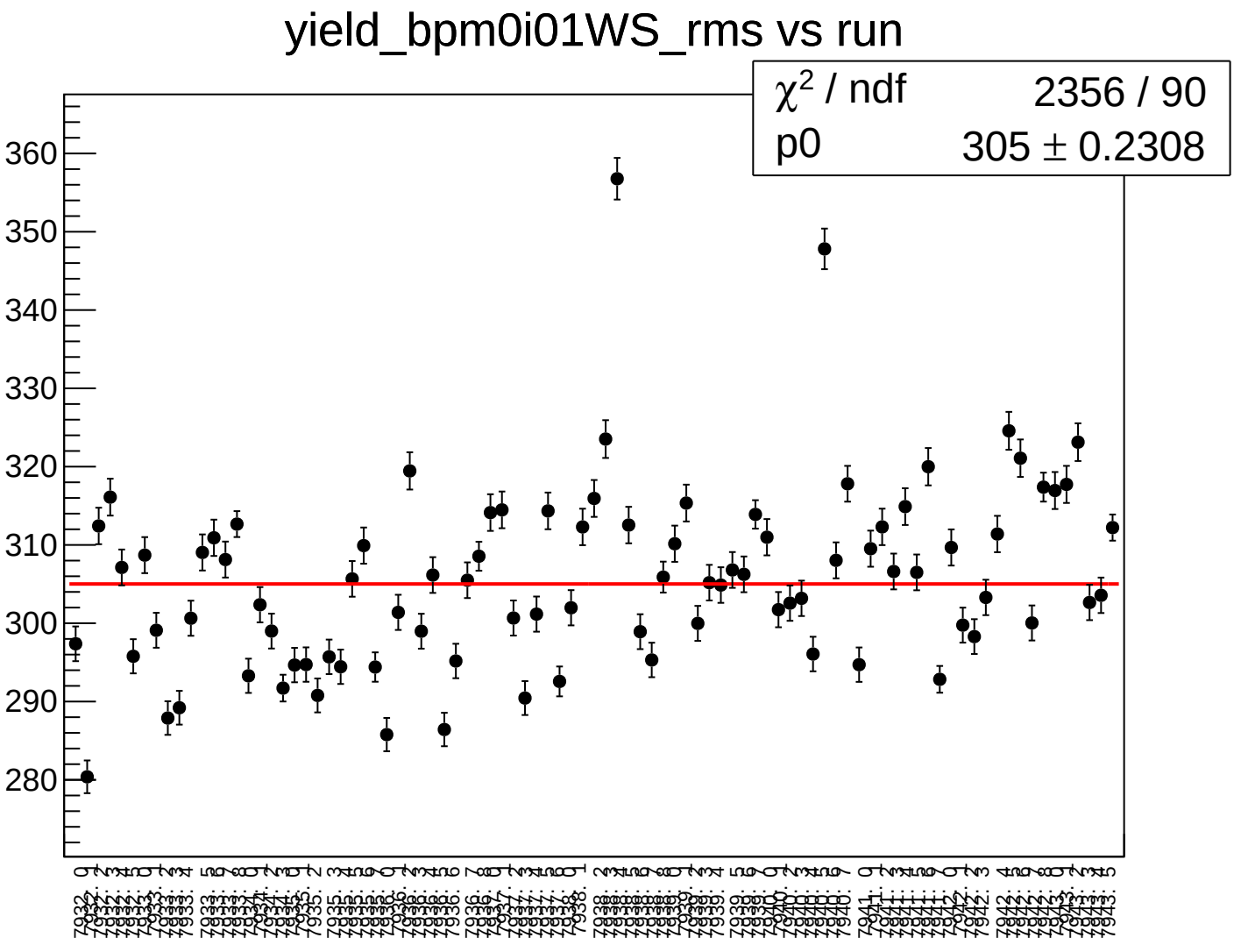

yield_bpm0i07WS_mean vs run
χ² / ndf 2.651e+06 / 90
p0 −1.37e+04 ± 0.0256
−13620
−13640
−13660
−13680
−13700
−13720
−13740
−13760
−13780
pull
Entries 91
Mean 1736
Std Dev 0
300
200
100
0
−100
−200
−300
−400

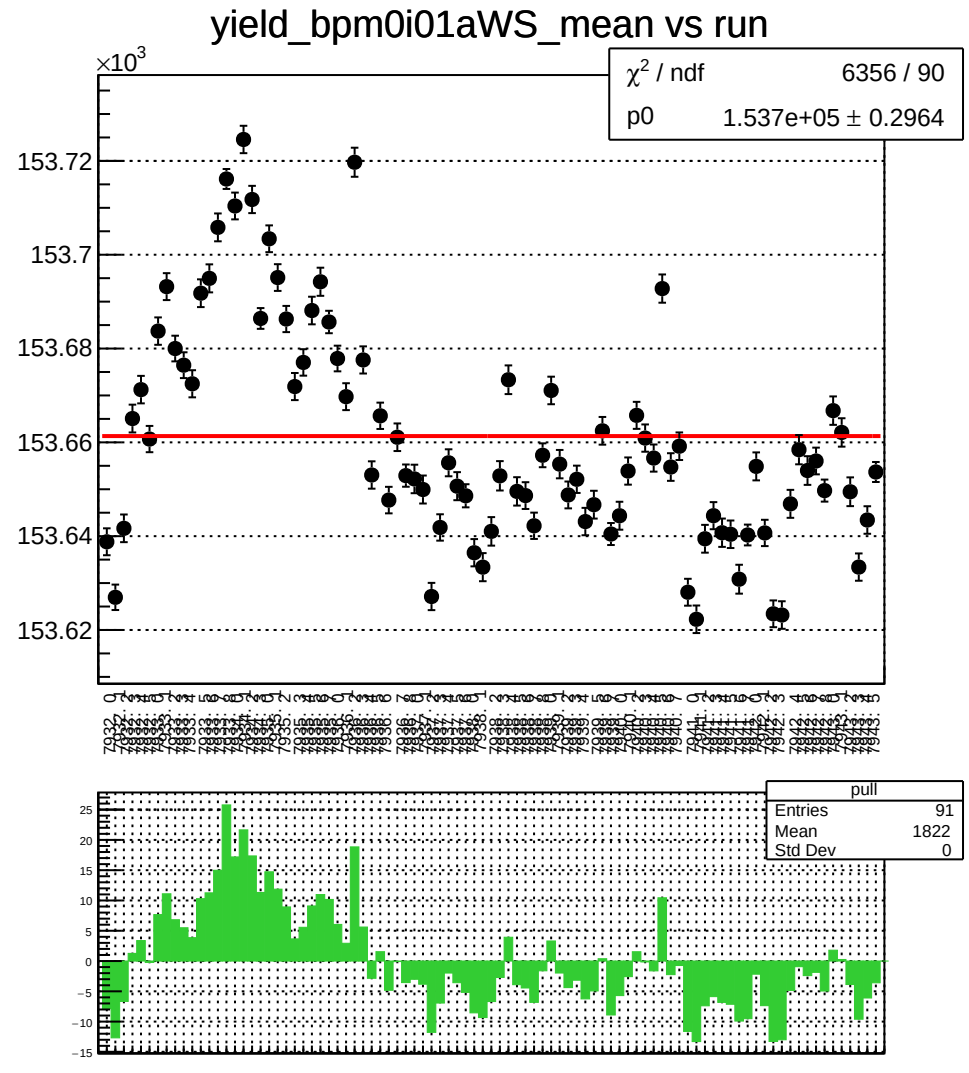

pull1D
Entries 91
Mean 3.561
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

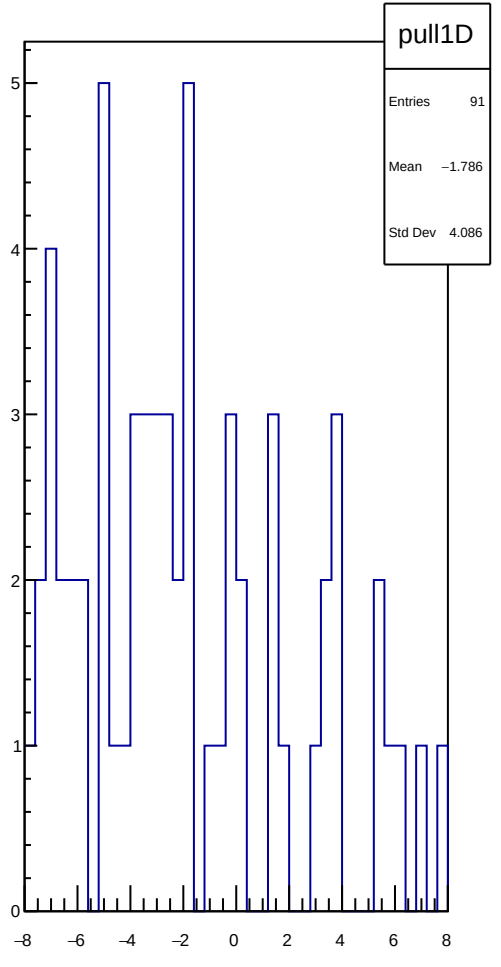

yield_bpm0i07WS_rms vs run
χ² / ndf 2.755e+04 / 90
p0 23.75 ± 0.0181
32
30
28
26
24
22
20
18
16

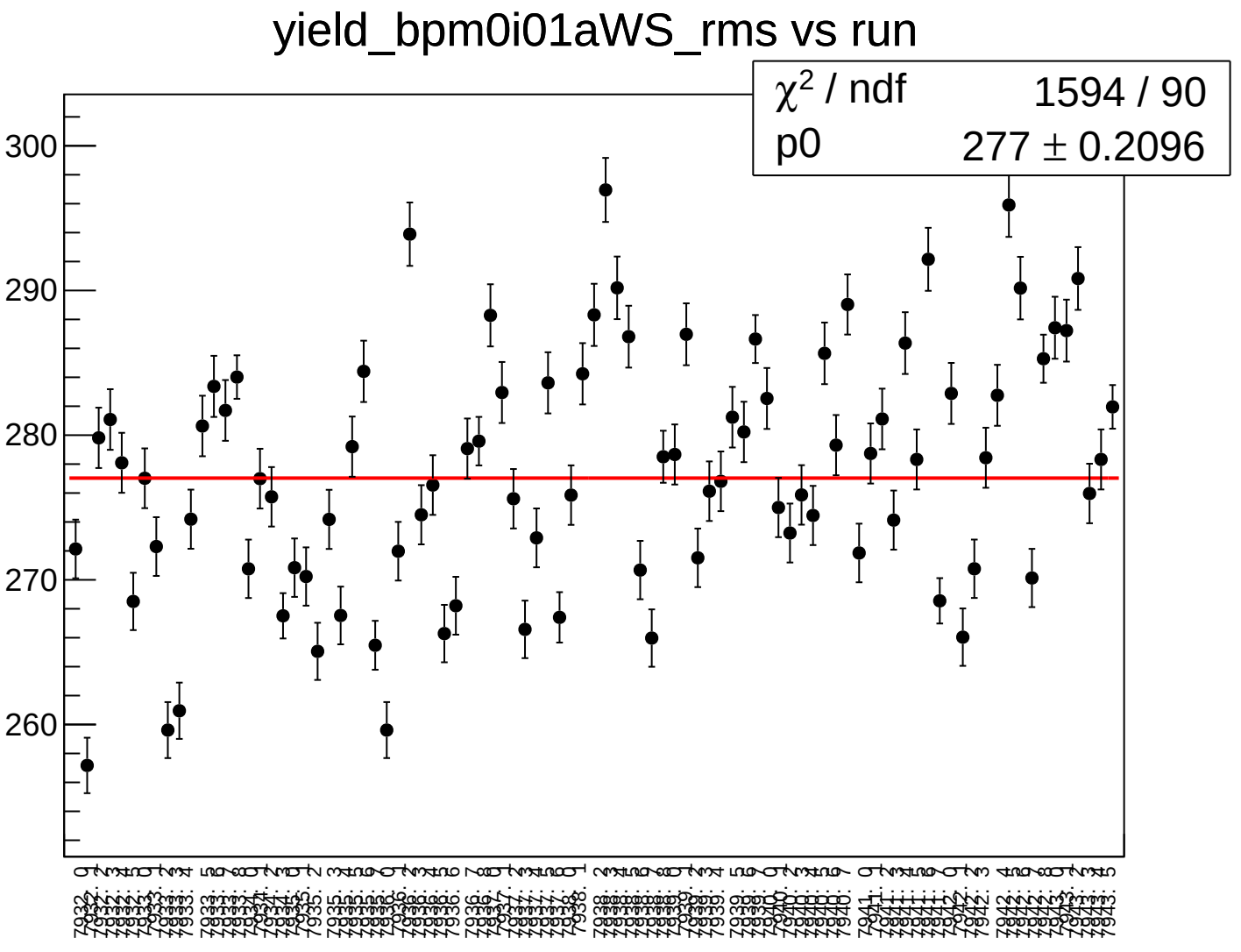

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 8.342e+04 / 90
p0 1.61e+05 ± 0.3265
161.25
161.2
161.15
161.1
161.05
161
160.95
160.9
160.85
pull
Entries 91
Mean 1.151e+04
Std Dev 0
60
40
20
0
−20
−40
−60

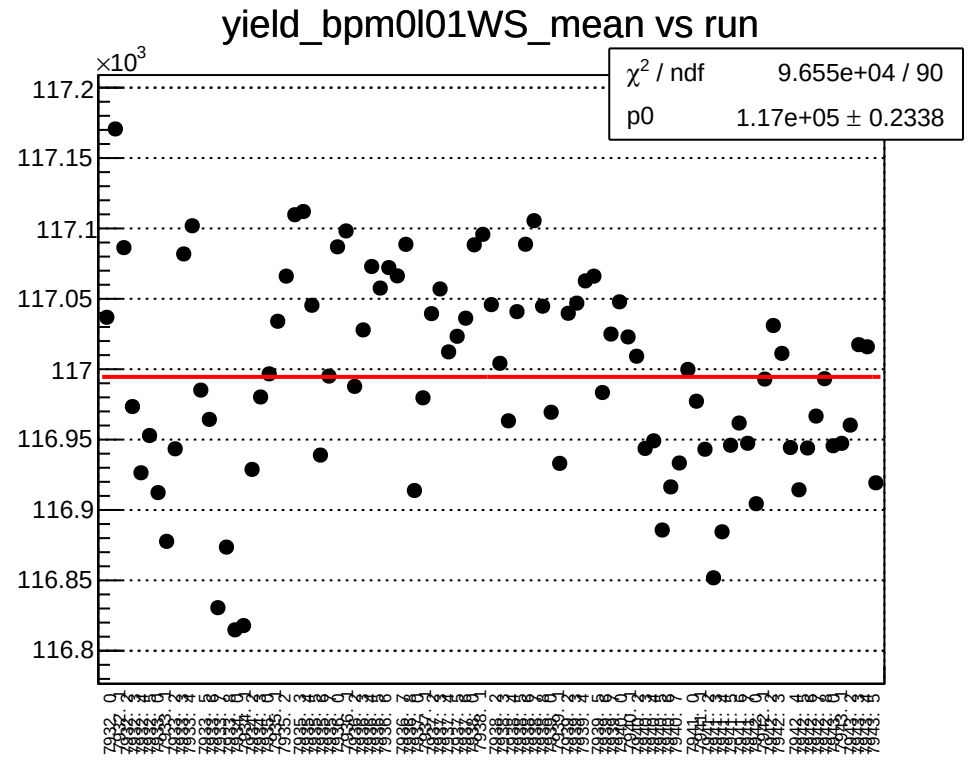

pull1D
Entries 91
Mean 0.4312
Std Dev 4.718
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

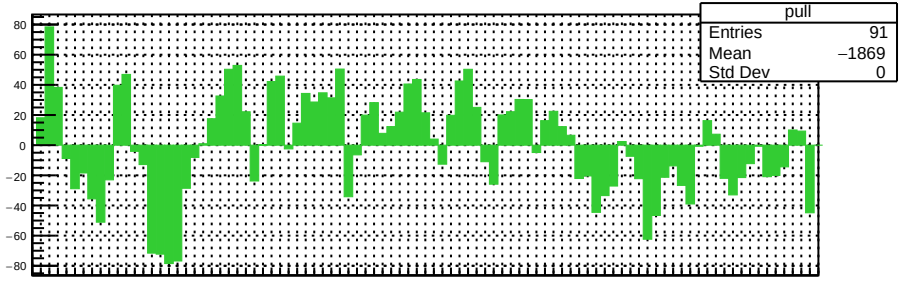

yield_bpm0i01WS_rms vs run
χ² / ndf 2356 / 90
p0 305 ± 0.2308
360
350
340
330
320
310
300
290
280

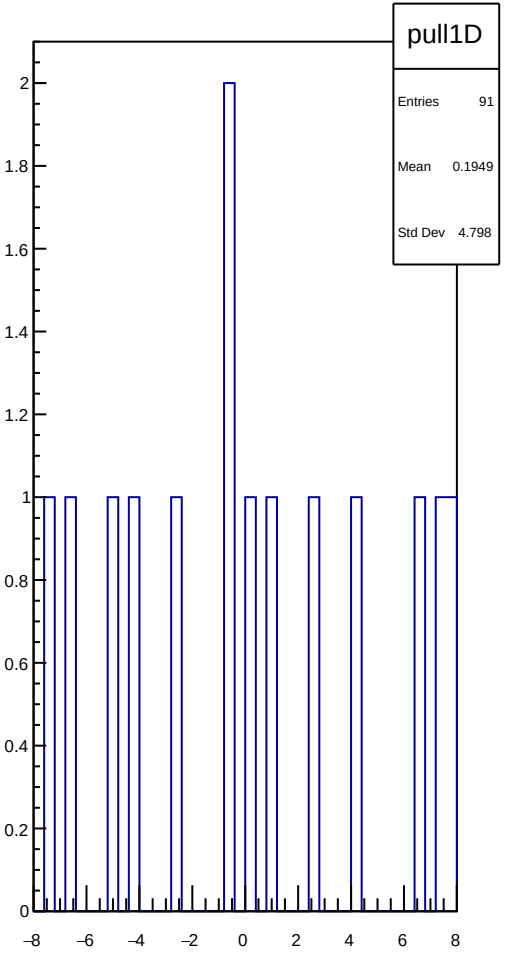

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 6356 / 90
p0 1.537e+05 ± 0.2964
153.72
153.7
153.68
153.66
153.64
153.62
pull
Entries 91
Mean 1822
Std Dev 0

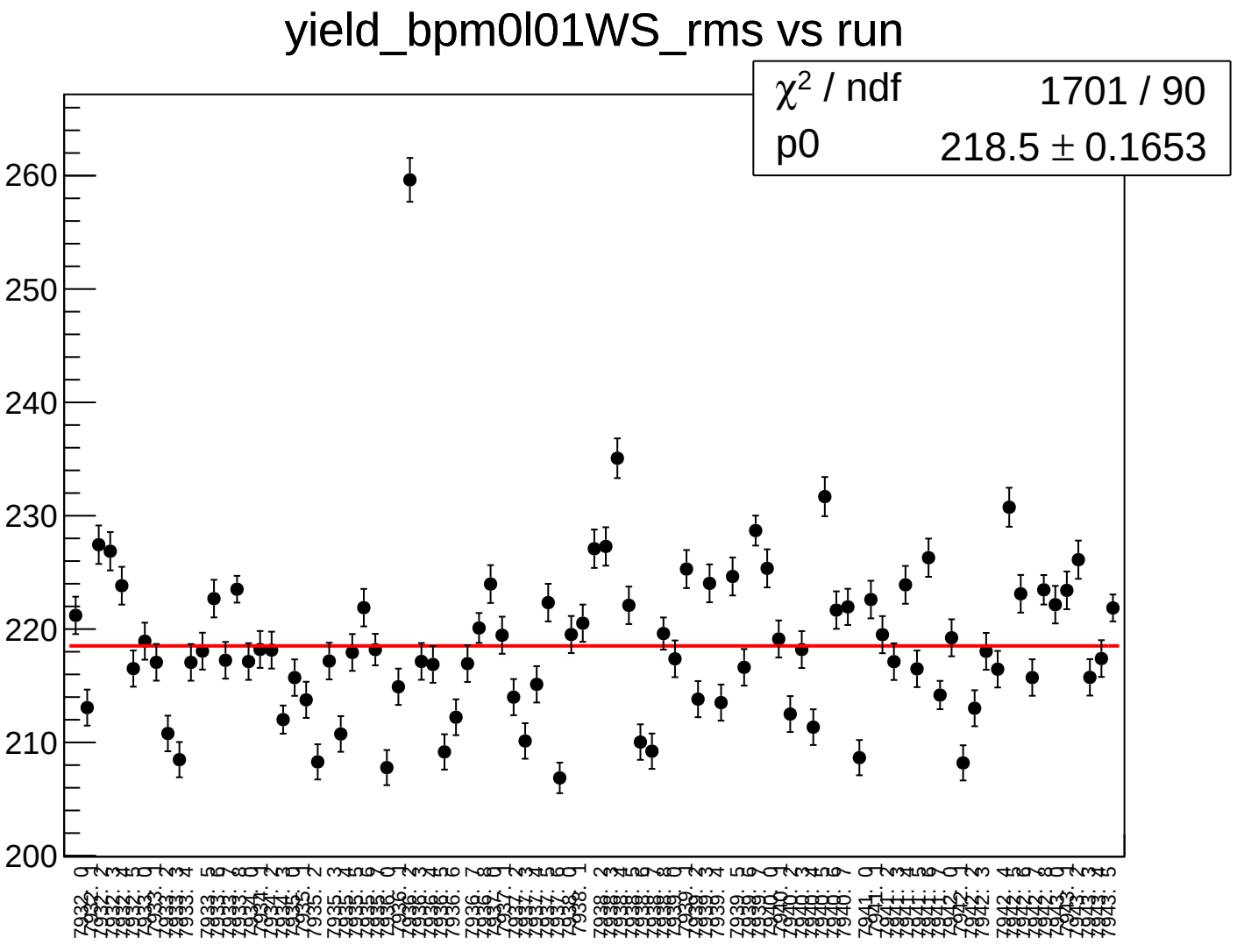

pull1D
Entries 91
Mean −1.786
Std Dev 4.086

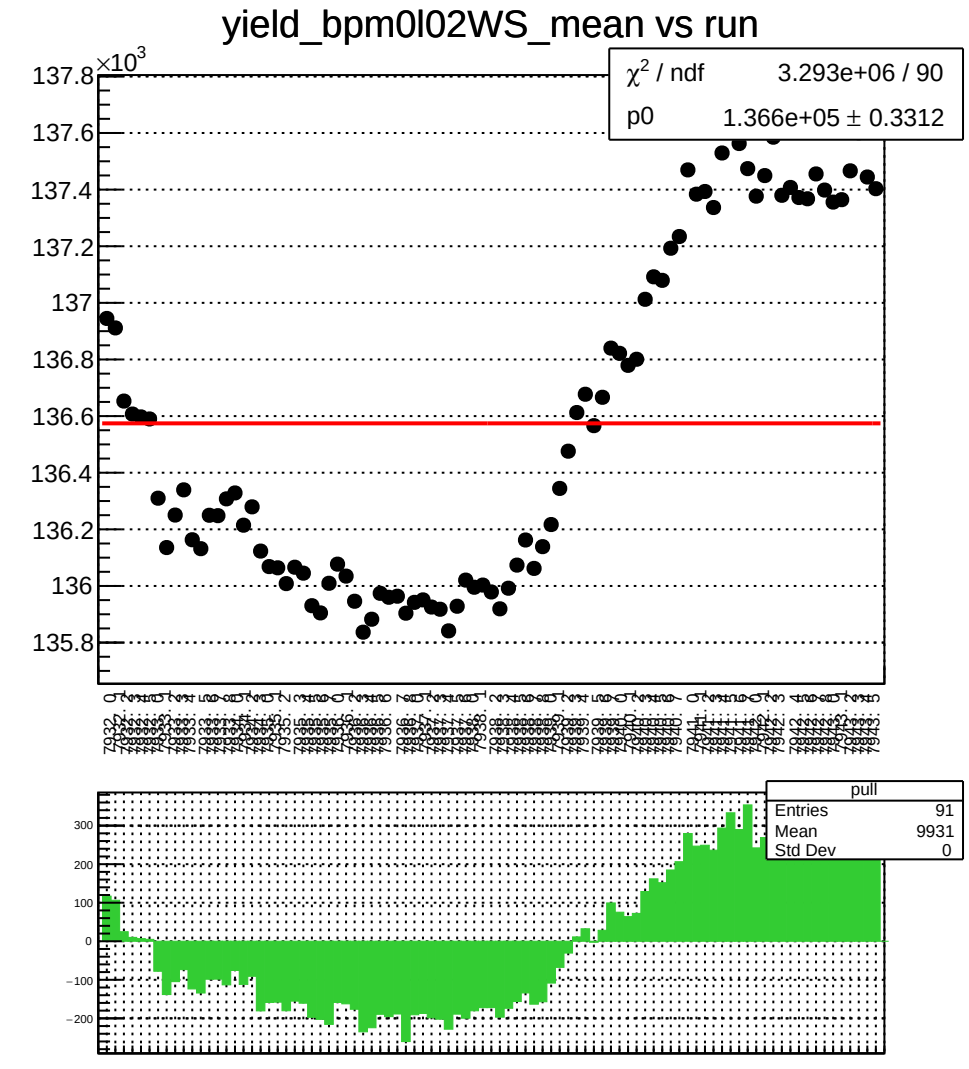

yield_bpm0i01aWS_rms vs run
χ² / ndf 1594 / 90
p0 277 ± 0.2096
300
290
280
270
260

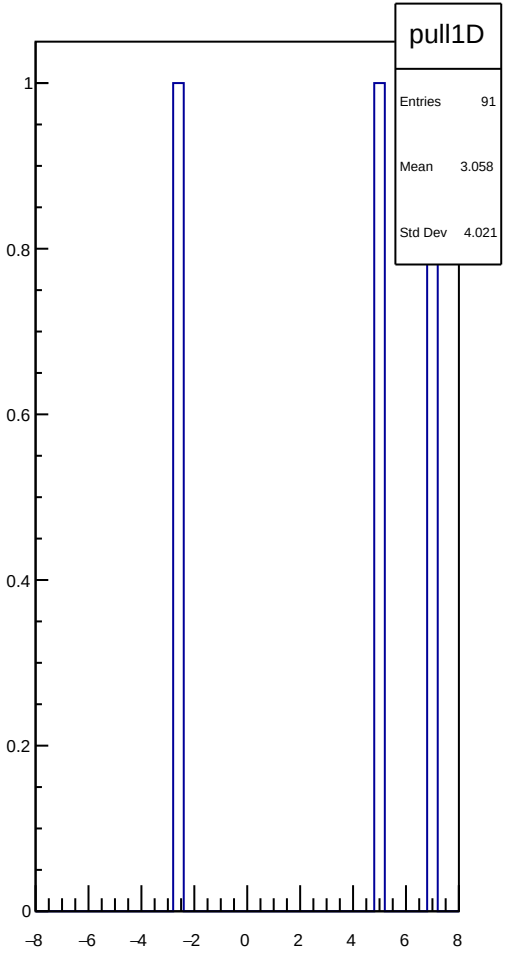

yield_bpm0l01WS_mean vs run
×10^3
117.2
117.15
117.1
117.05
117
116.95
116.9
116.85
116.8
χ² / ndf 9.655e+04 / 90
p0 1.17e+05 ± 0.2338

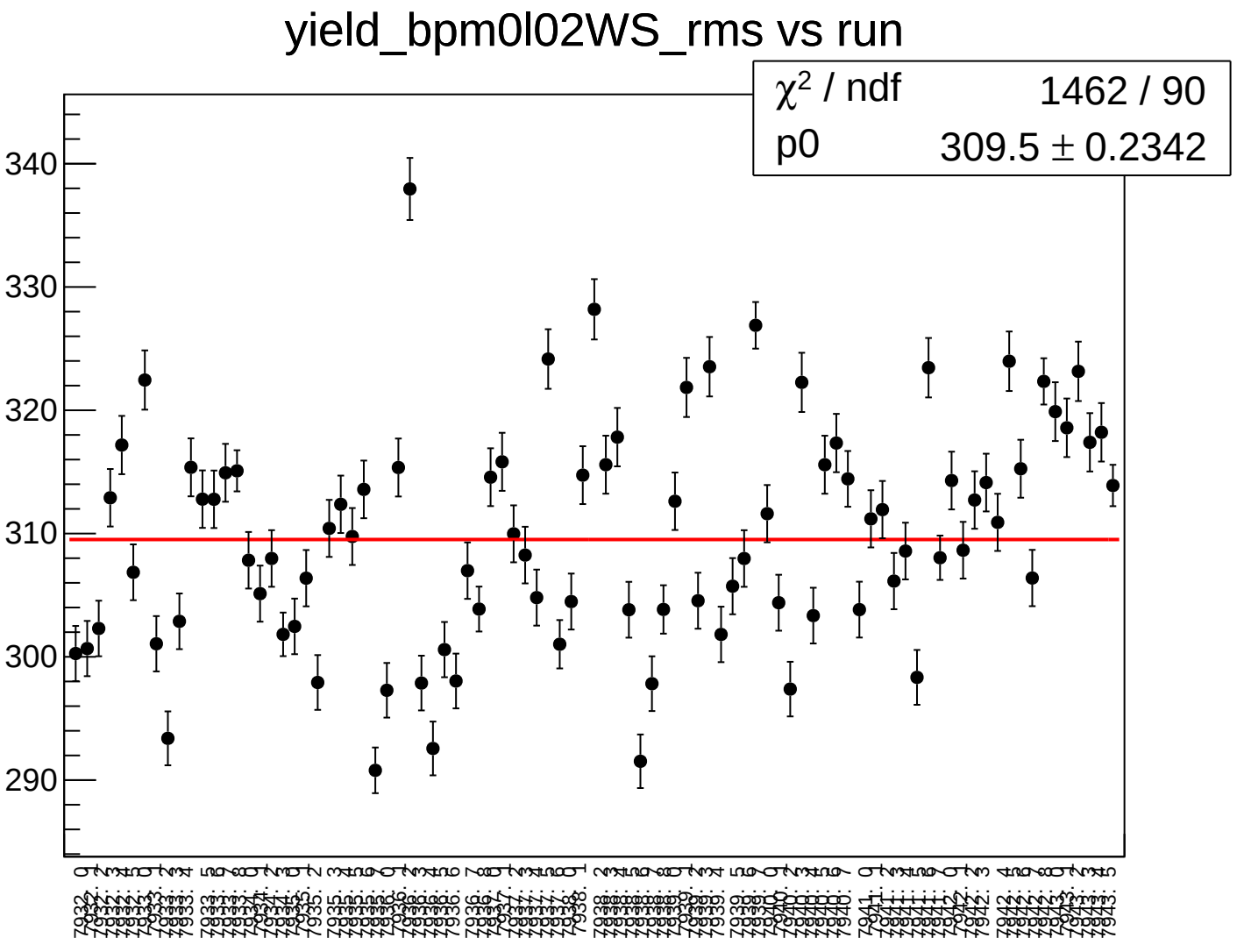

pull
Entries 91
Mean −1869
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

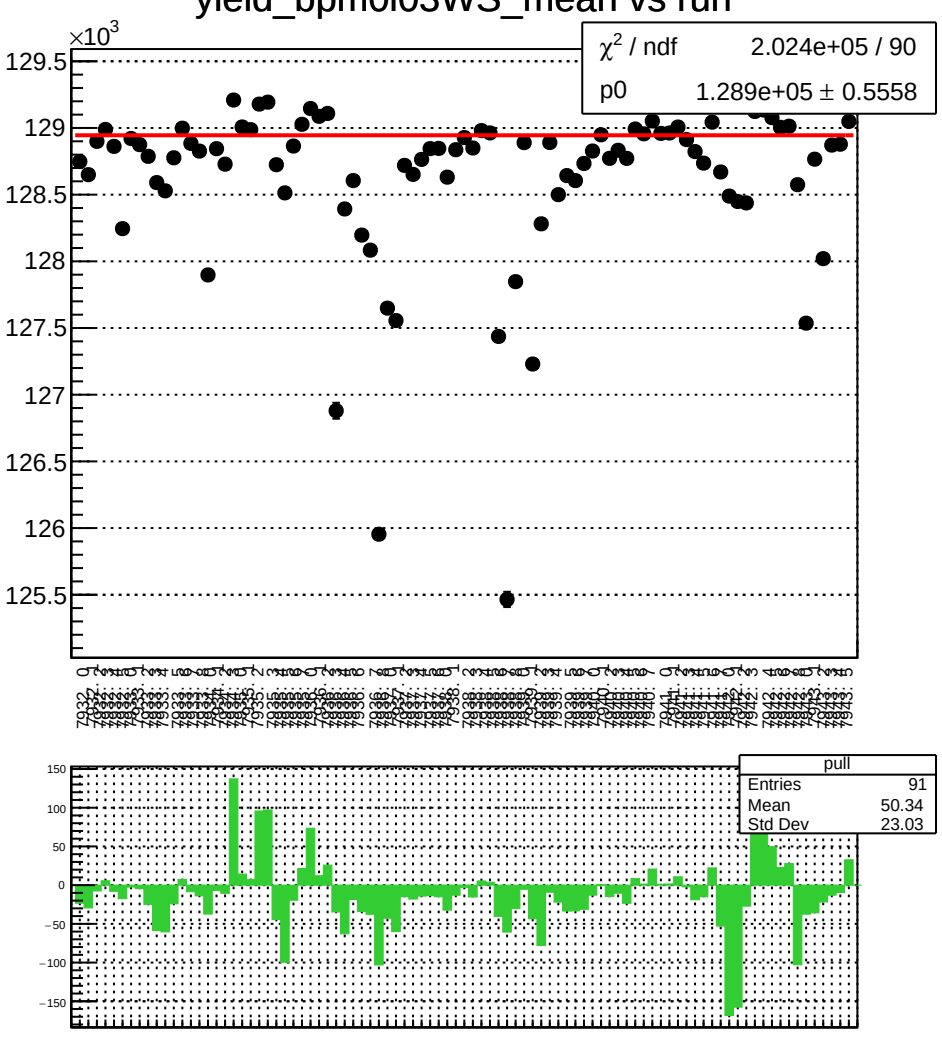

pull1D
Entries 91
Mean 0.1949
Std Dev 4.798
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

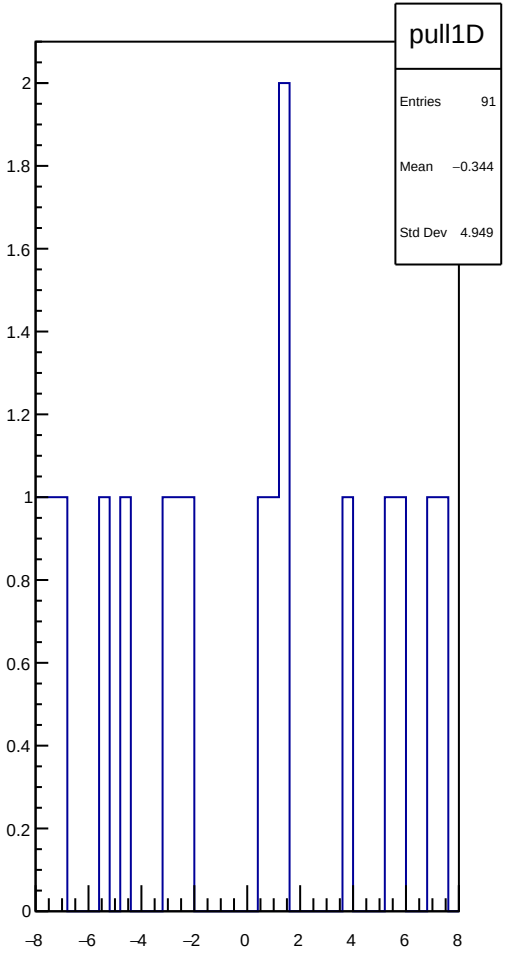

yield_bpm0l01WS_rms vs run
χ² / ndf 1701 / 90
p0 218.5 ± 0.1653
260
250
240
230
220
210
200

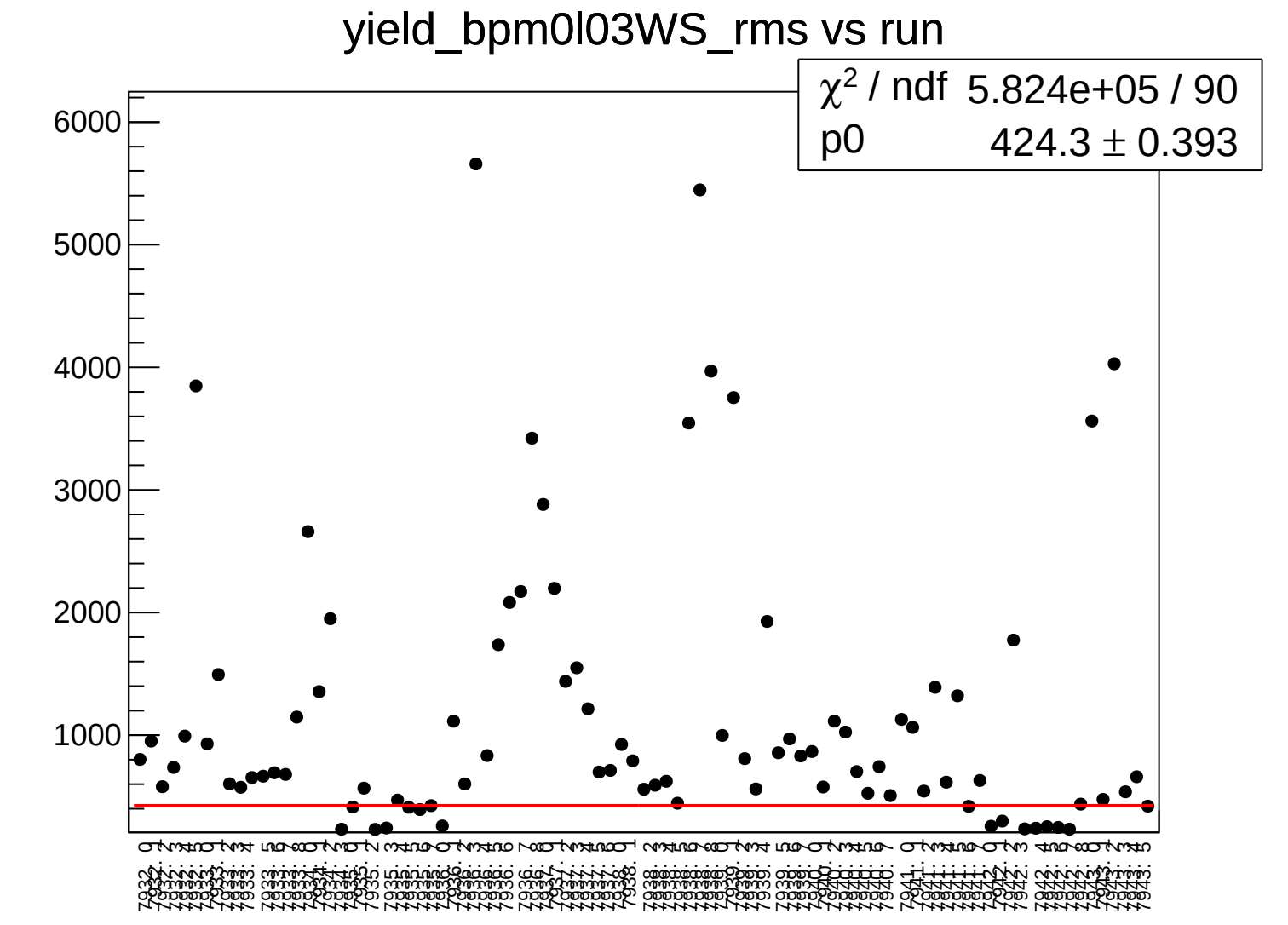

yield_bpm0l02WS_mean vs run
χ² / ndf 3.293e+06 / 90
p0 1.366e+05 ± 0.3312
×10³
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
136
135.8
pull
Entries 91
Mean 9931
Std Dev 0
300
200
100
0
−100
−200

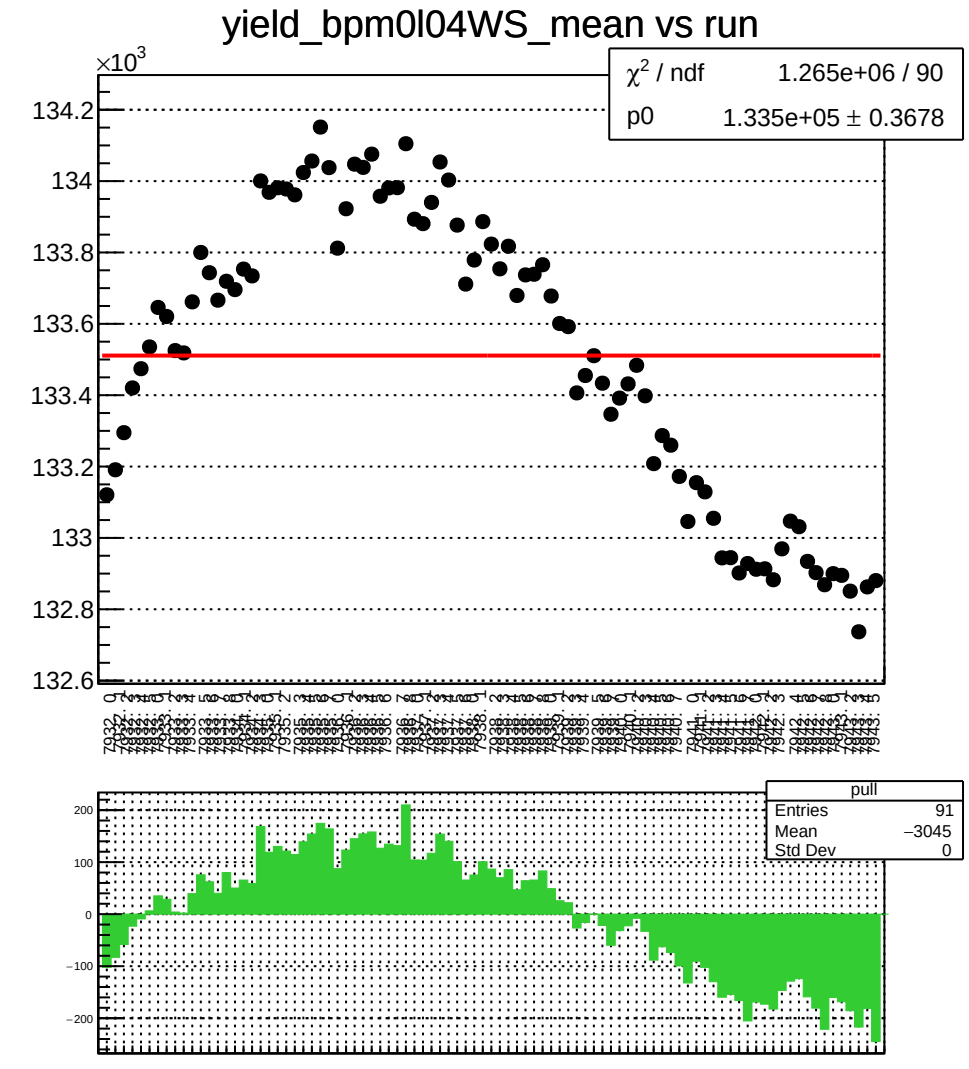

pull1D
Entries 91
Mean 3.058
Std Dev 4.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

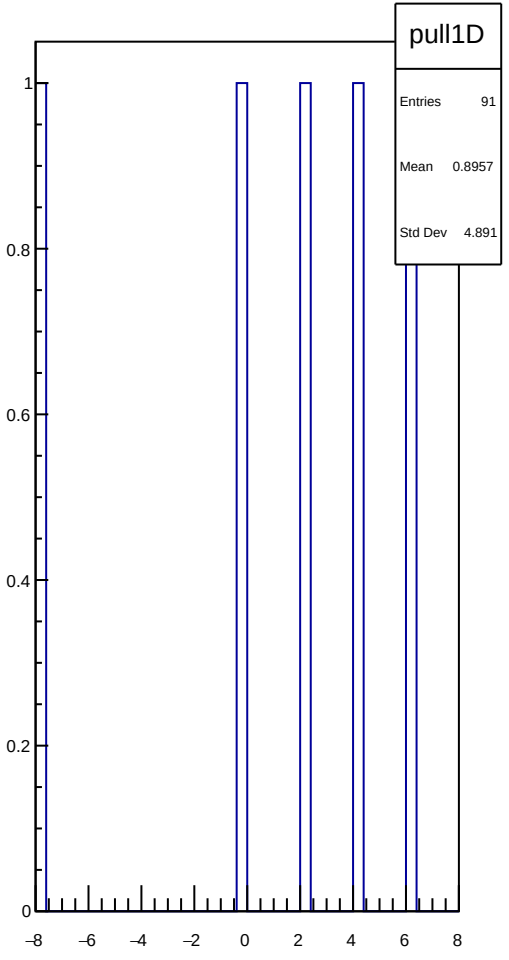

yield_bpm0l02WS_rms vs run
χ² / ndf 1462 / 90
p0 309.5 ± 0.2342
340
330
320
310
300
290

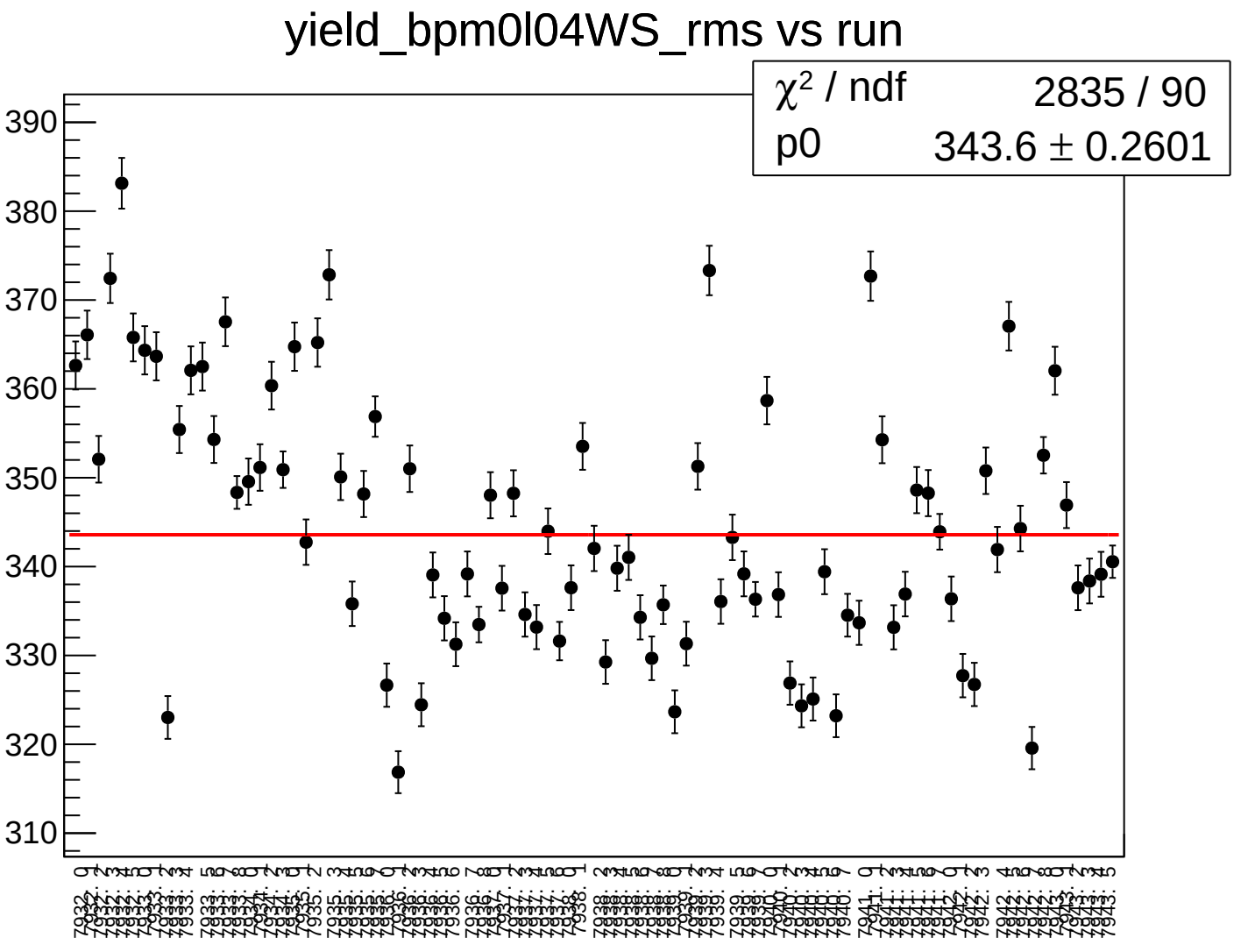

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.024e+05 / 90
p0 1.289e+05 ± 0.5558
129.5
129
128.5
128
127.5
127
126.5
126
125.5
pull
Entries 91
Mean 50.34
Std Dev 23.03
150
100
50
0
−50
−100
−150

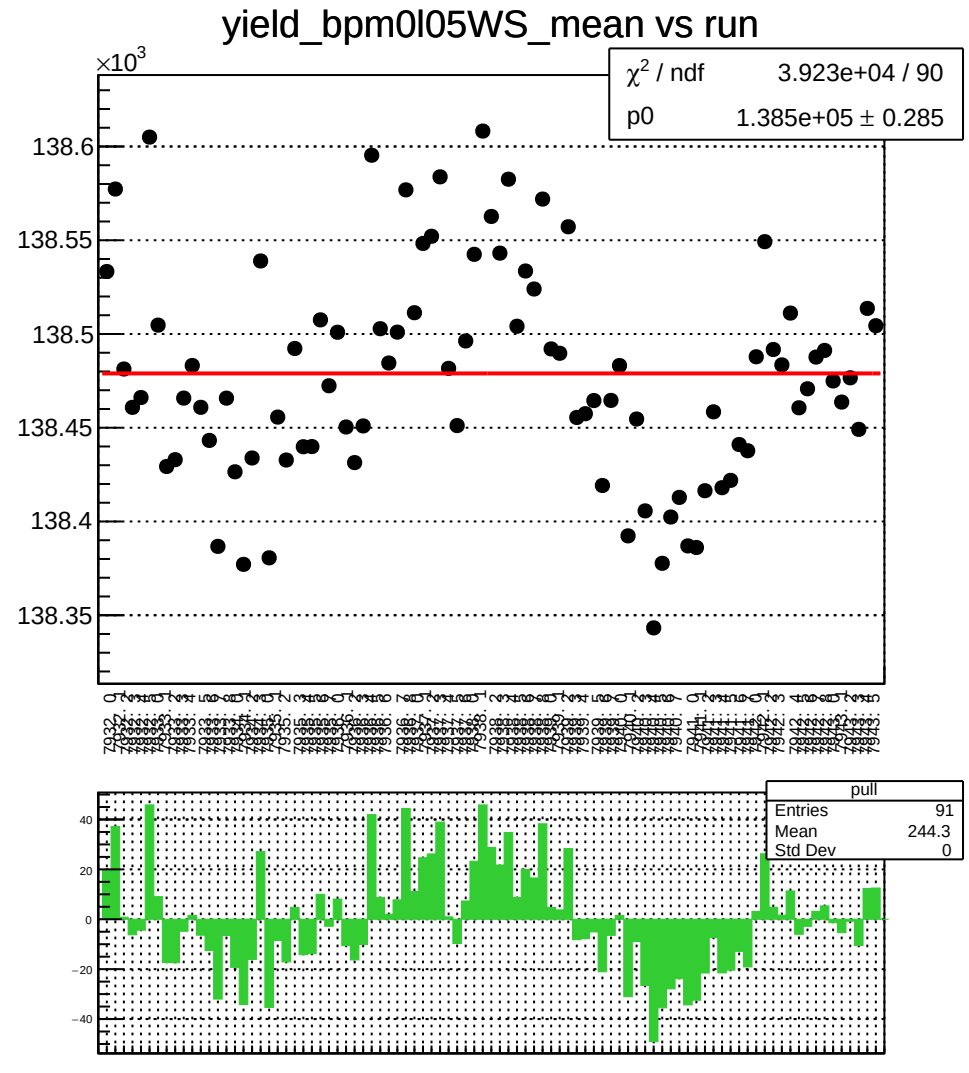

pull1D
Entries 91
Mean −0.344
Std Dev 4.949
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

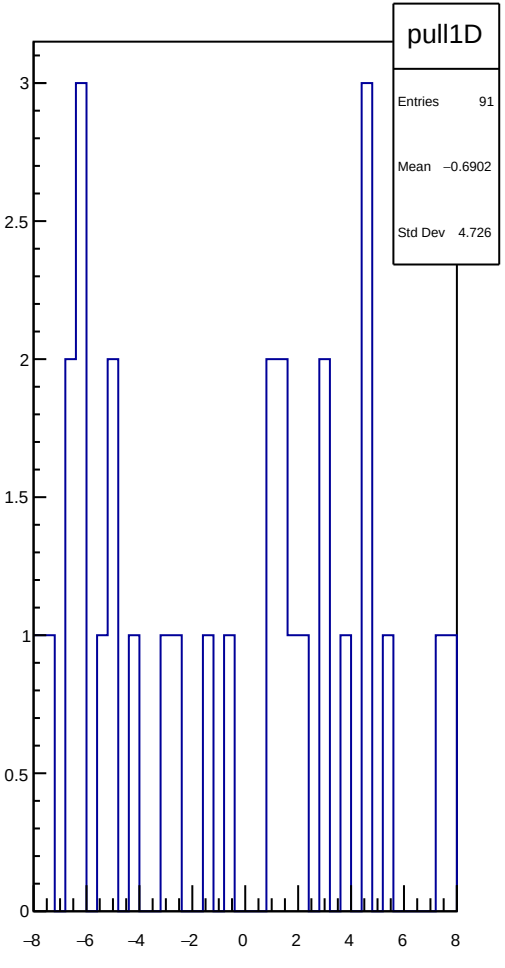

yield_bpm0l03WS_rms vs run
χ^2 / ndf 5.824e+05 / 90
p0 424.3 ± 0.393
6000
5000
4000
3000
2000
1000

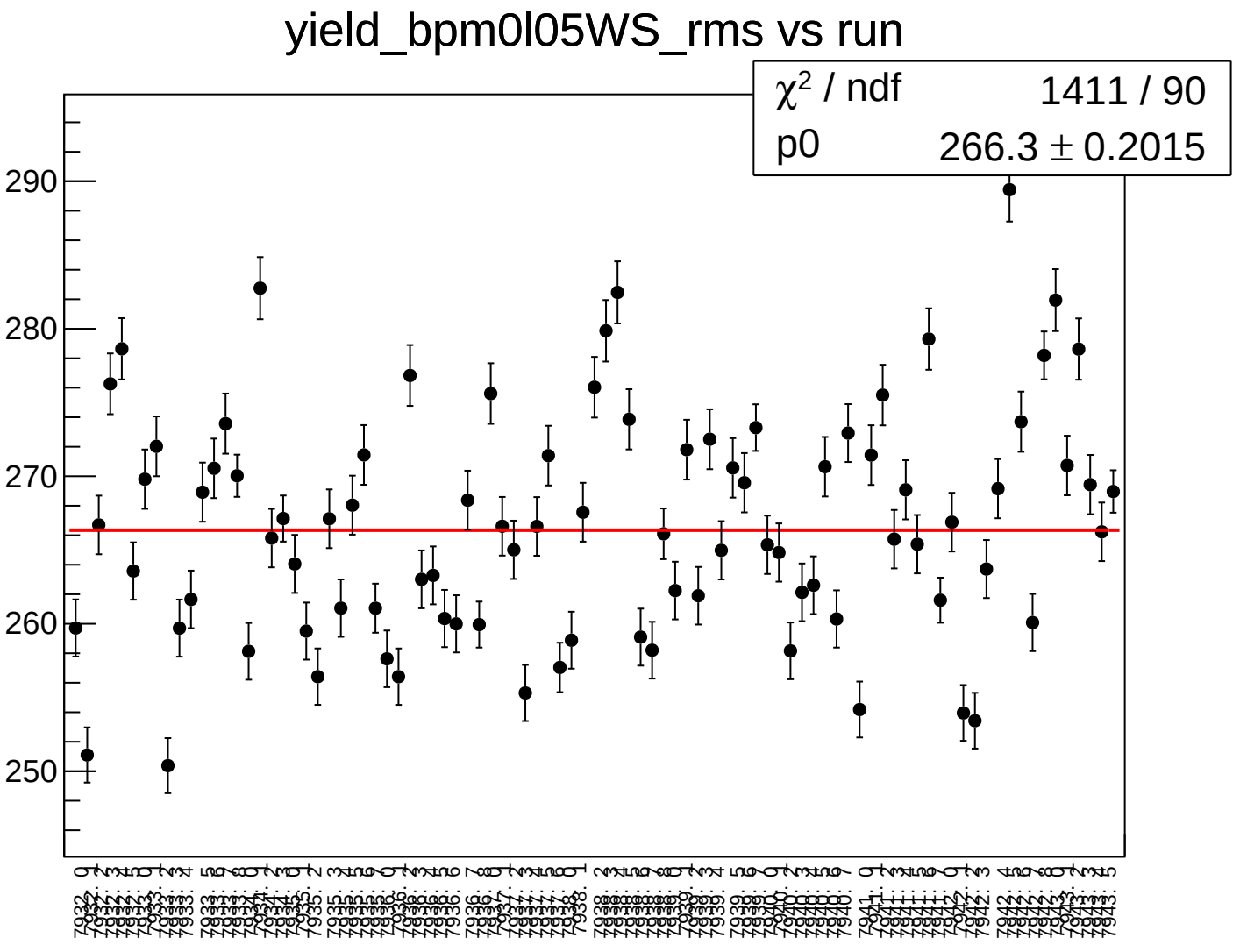

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 1.265e+06 / 90
p0 1.335e+05 ± 0.3678
134.2
134
133.8
133.6
133.4
133.2
133
132.8
132.6
pull
Entries 91
Mean −3045
Std Dev 0
200
100
0
−100
−200

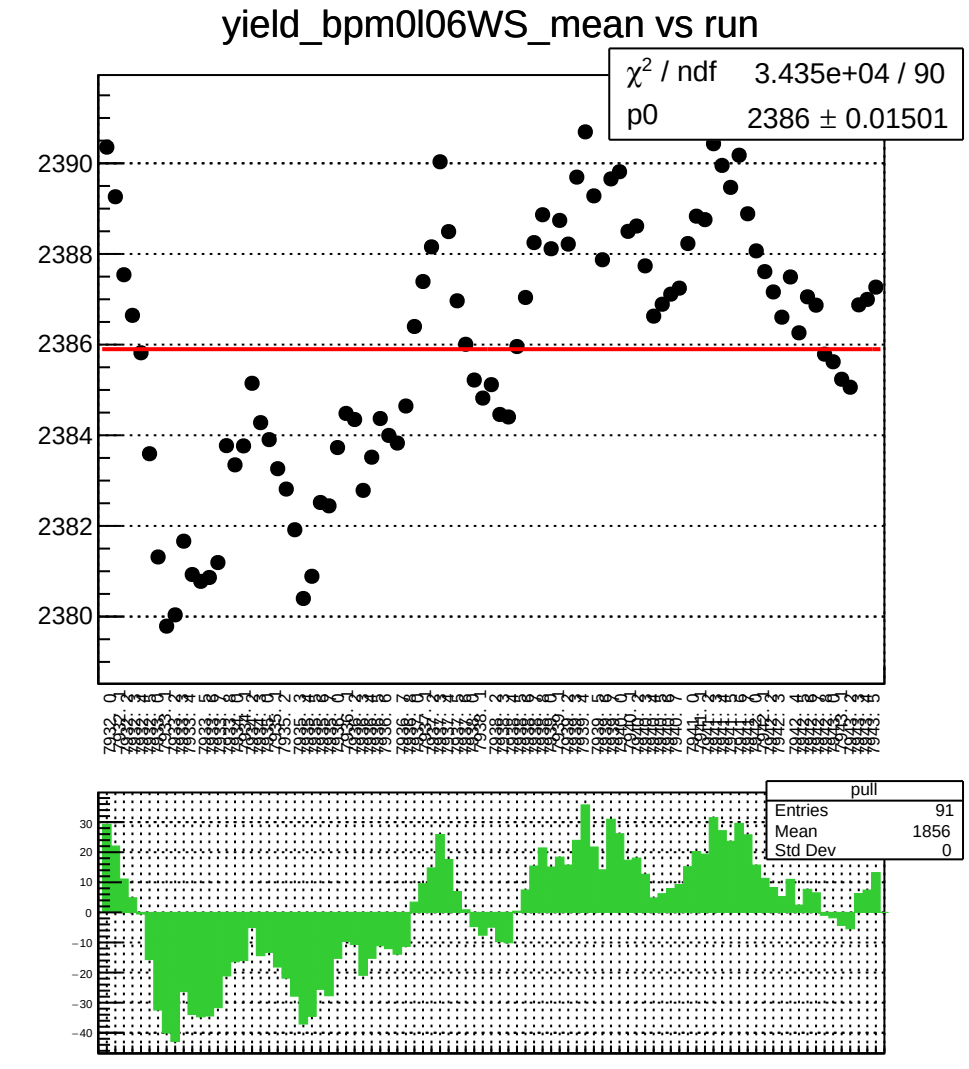

pull1D
Entries 91
Mean 0.8957
Std Dev 4.891
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

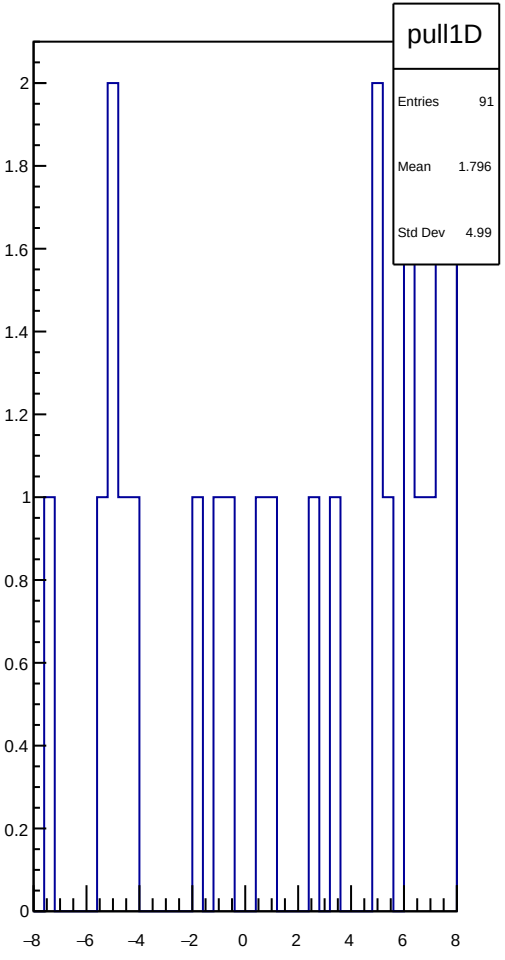

yield_bpm0l04WS_rms vs run
χ² / ndf 2835 / 90
p0 343.6 ± 0.2601
390
380
370
360
350
340
330
320
310

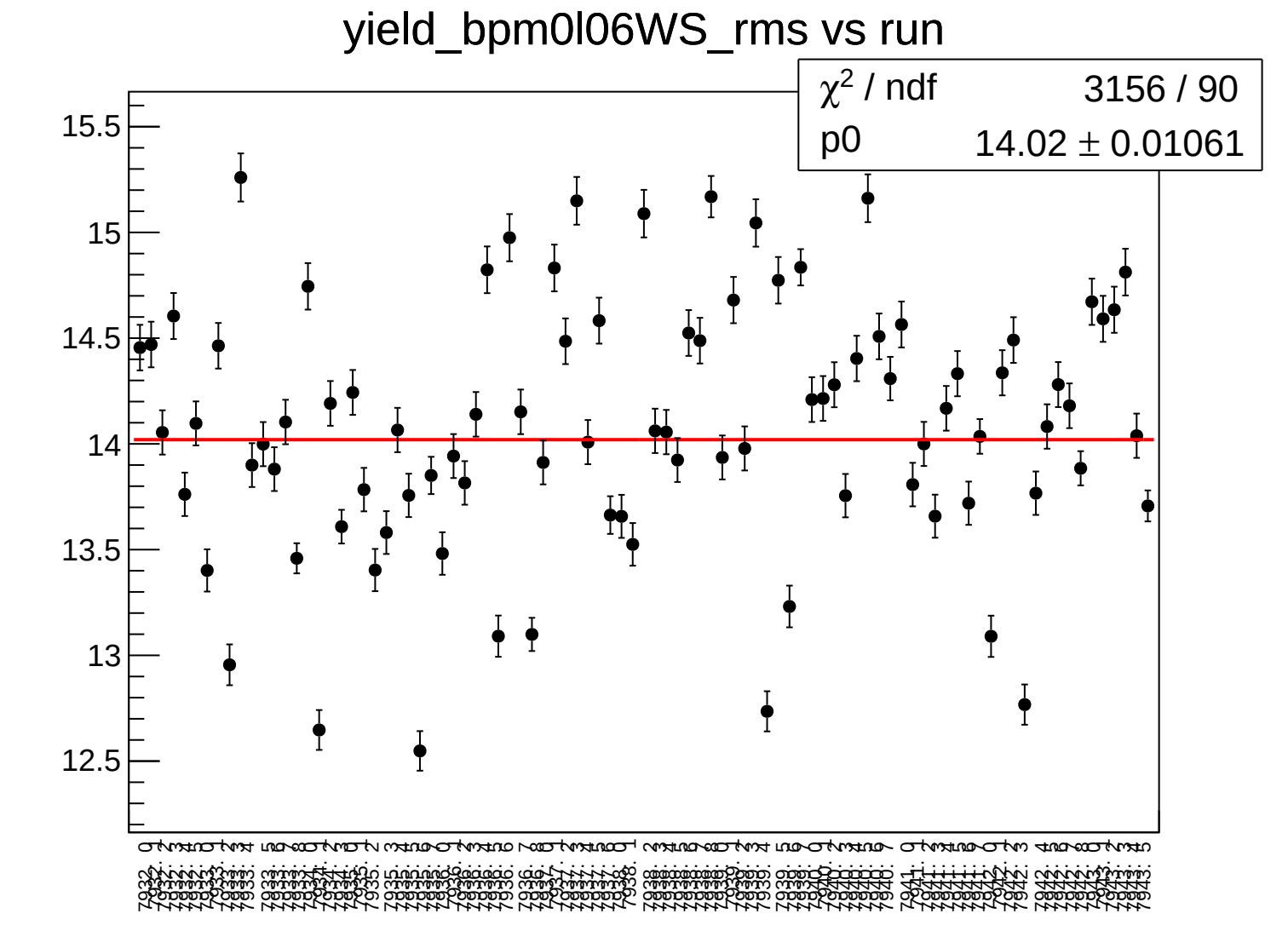

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 3.923e+04 / 90
p0 1.385e+05 ± 0.285
138.6
138.55
138.5
138.45
138.4
138.35
pull
Entries 91
Mean 244.3
Std Dev 0
40
20
0
−20
−40

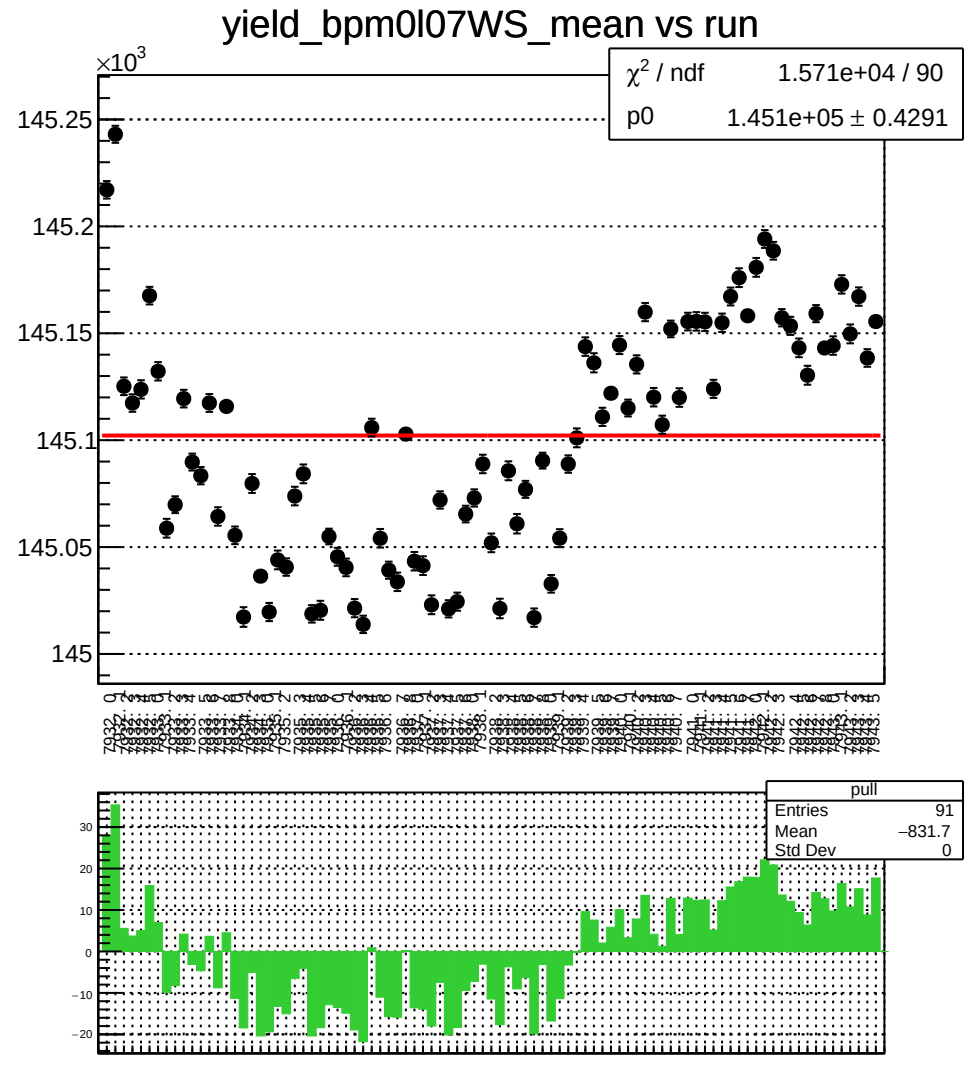

pull1D
Entries 91
Mean −0.6902
Std Dev 4.726
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

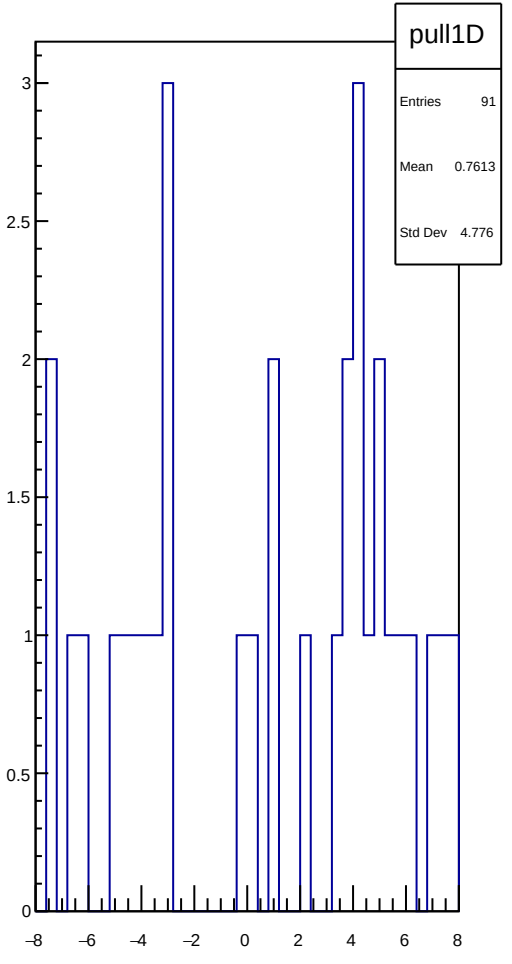

yield_bpm0l05WS_rms vs run
χ² / ndf 1411 / 90
p0 266.3 ± 0.2015
290
280
270
260
250

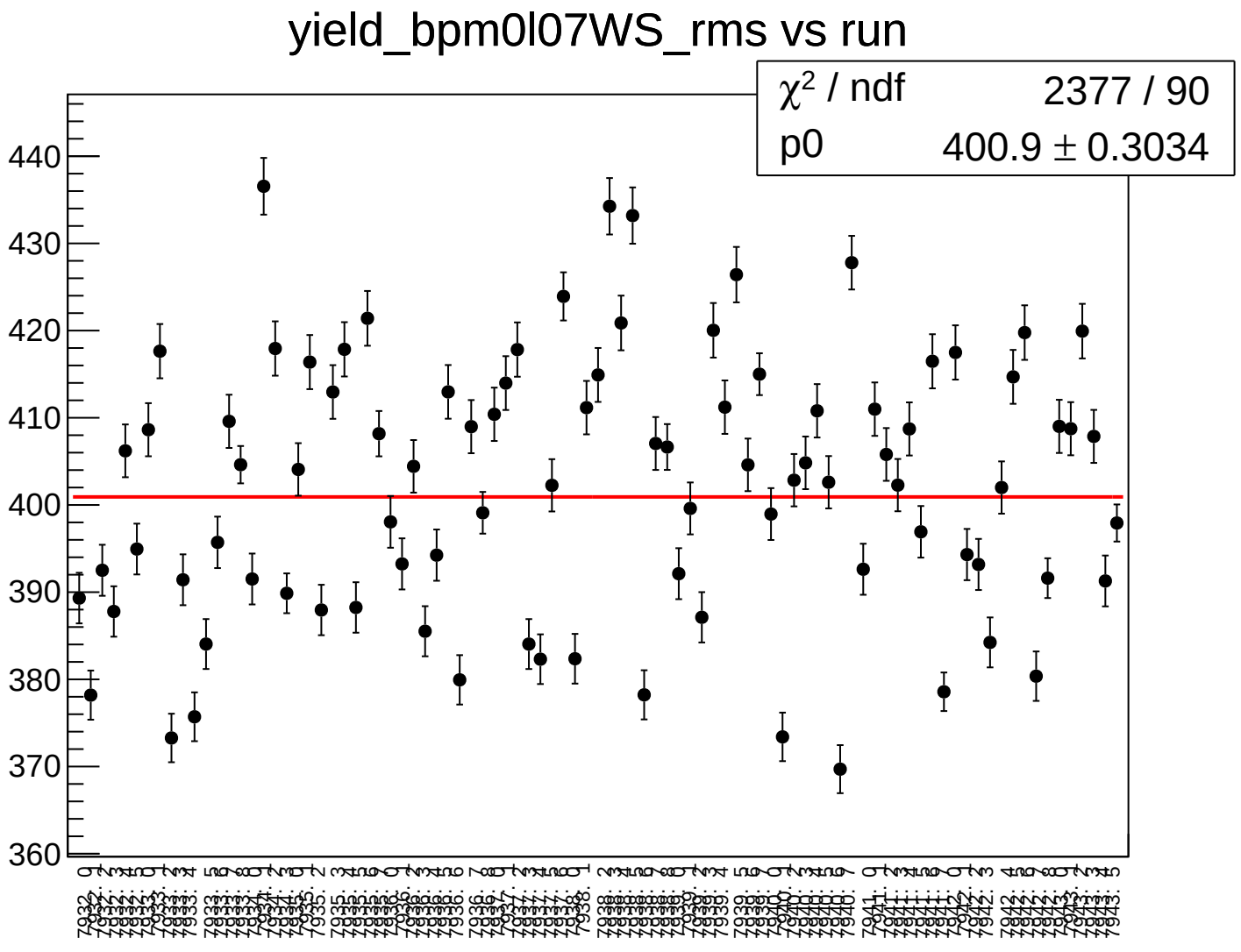

yield_bpm0l06WS_mean vs run
χ² / ndf 3.435e+04 / 90
p0 2386 ± 0.01501
2390
2388
2386
2384
2382
2380
pull
Entries 91
Mean 1856
Std Dev 0
30
20
10
0
−10
−20
−30
−40

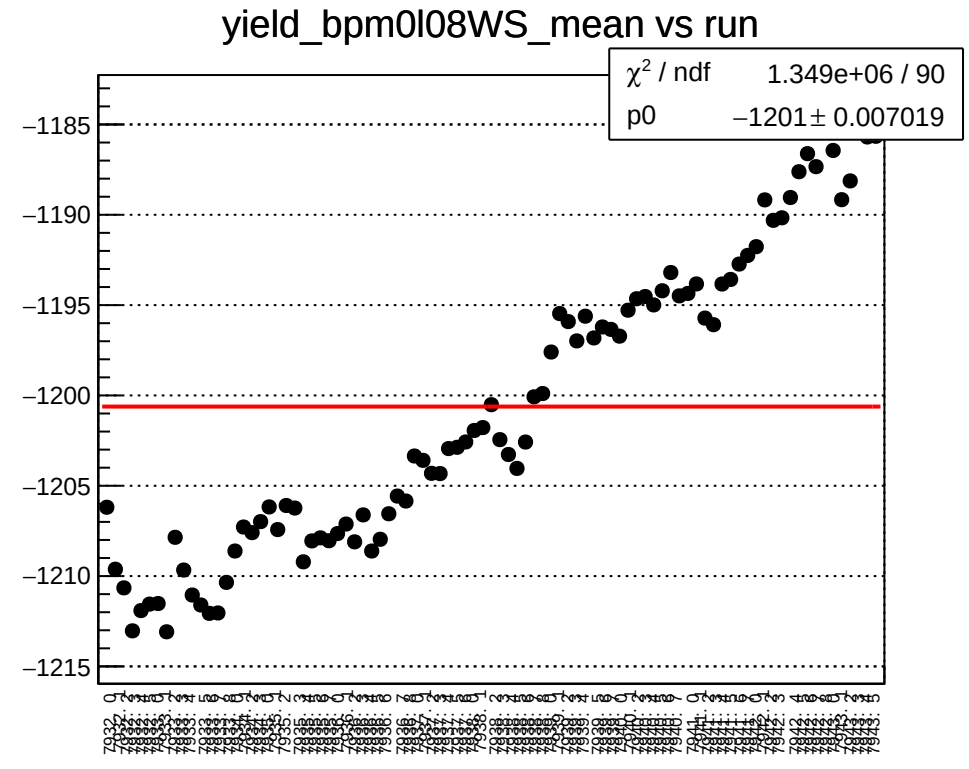

pull1D
Entries 91
Mean 1.796
Std Dev 4.99
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

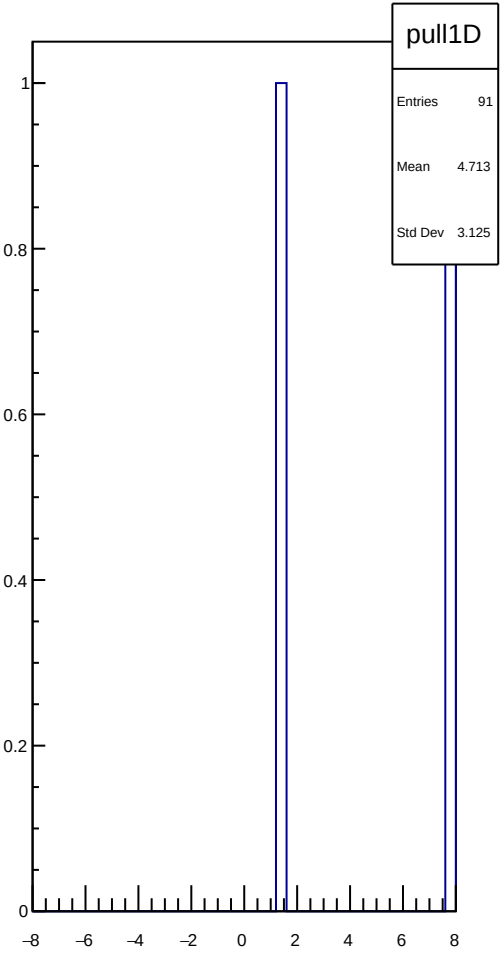

yield_bpm0l06WS_rms vs run
χ² / ndf 3156 / 90
p0 14.02 ± 0.01061
15.5
15
14.5
14
13.5
13
12.5

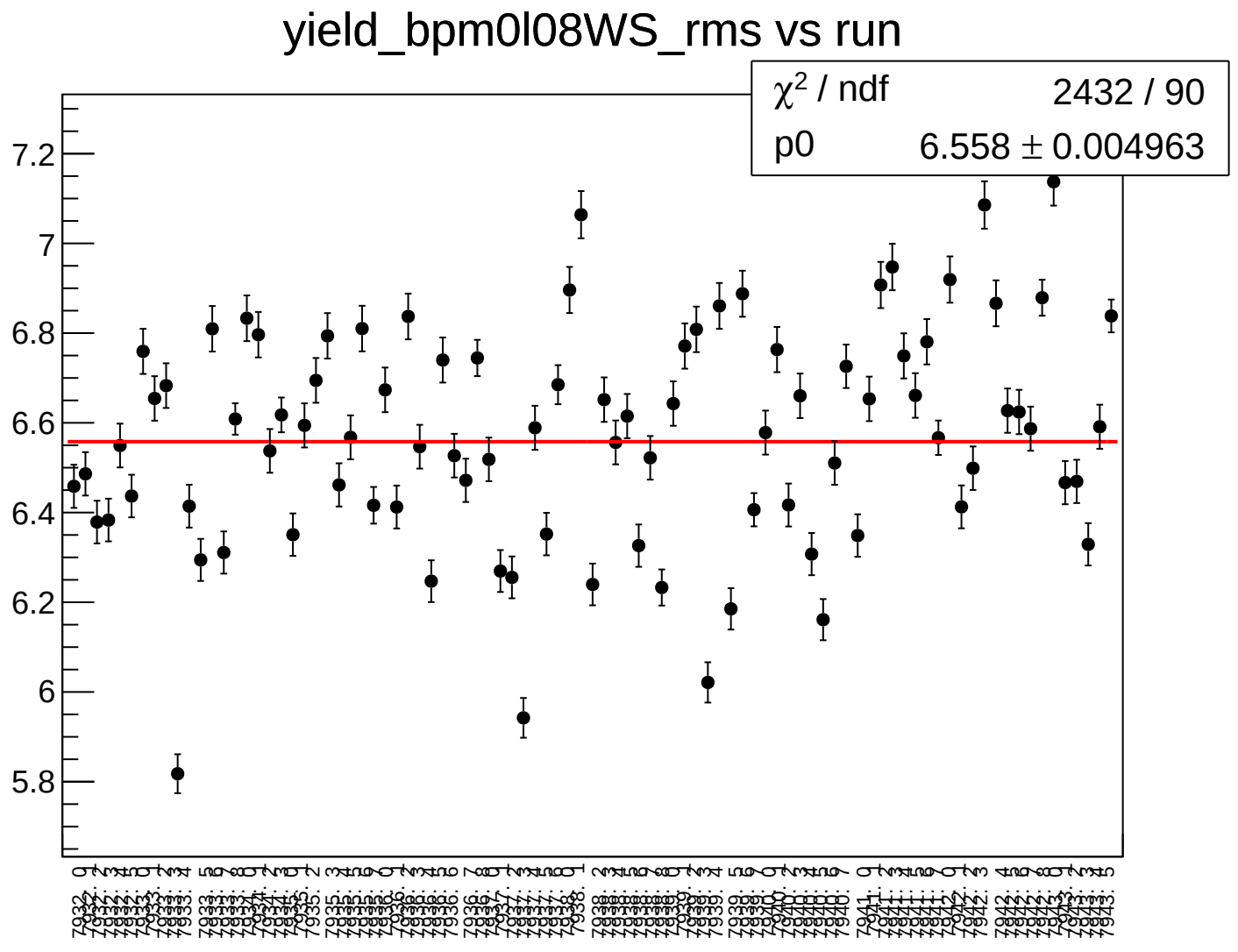

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.571e+04 / 90
p0 1.451e+05 ± 0.4291
145.25
145.2
145.15
145.1
145.05
145
pull
Entries 91
Mean −831.7
Std Dev 0
30
20
10
0
−10
−20

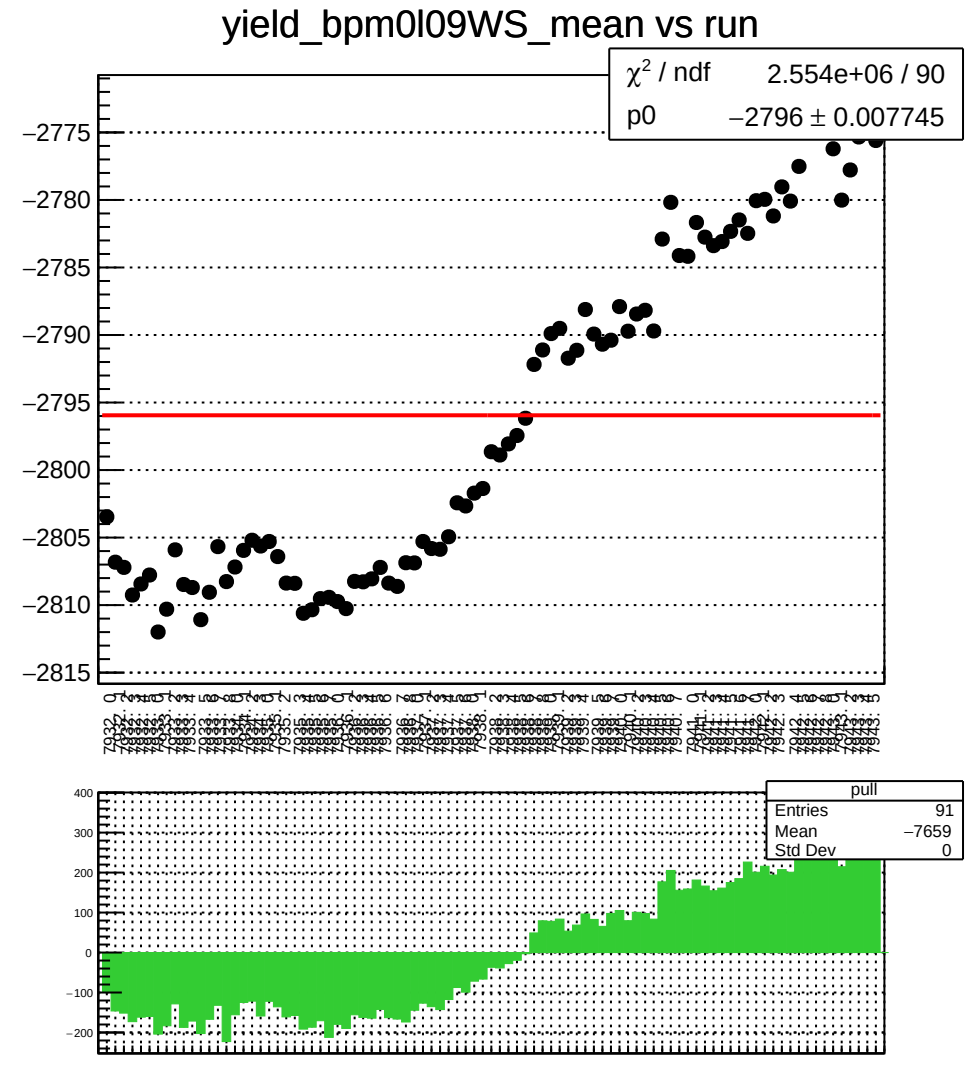

pull1D
Entries 91
Mean 0.7613
Std Dev 4.776
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

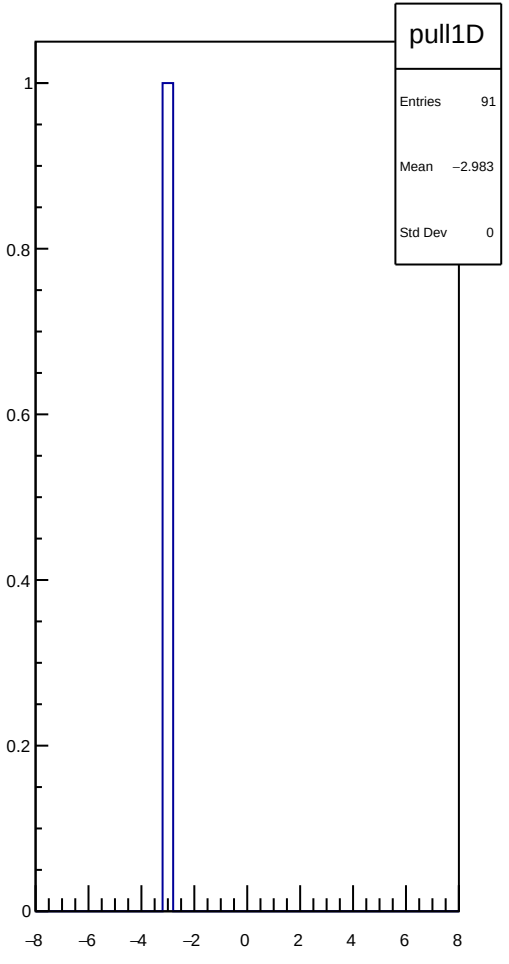

yield_bpm0l07WS_rms vs run
χ² / ndf 2377 / 90
p0 400.9 ± 0.3034
440
430
420
410
400
390
380
370
360

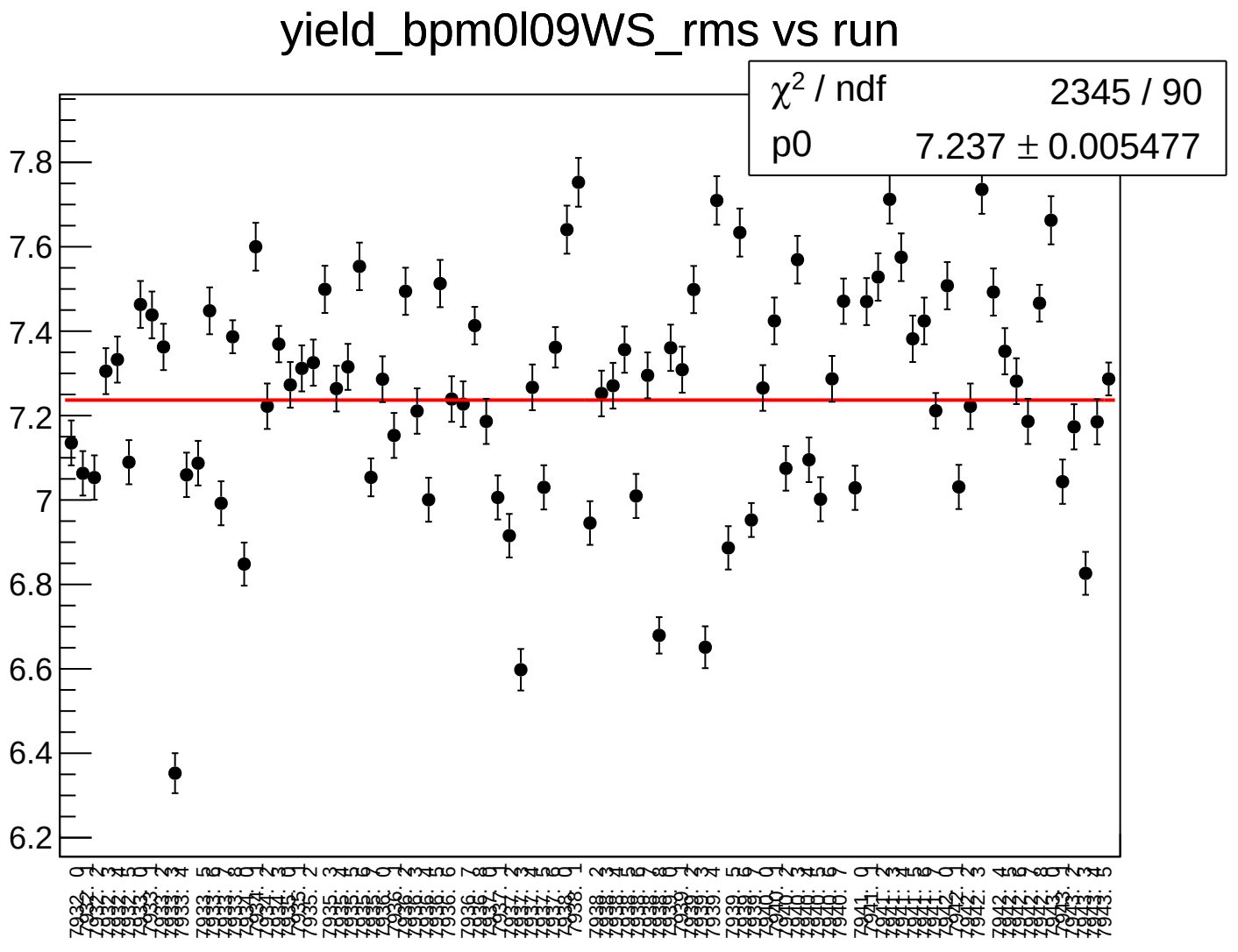

yield_bpm0l08WS_mean vs run
χ² / ndf 1.349e+06 / 90
p0 −1201 ± 0.007019
−1185
−1190
−1195
−1200
−1205
−1210
−1215
pull
Entries 91
Mean −1.642e+05
Std Dev 0
300
200
100
0
−100
−200

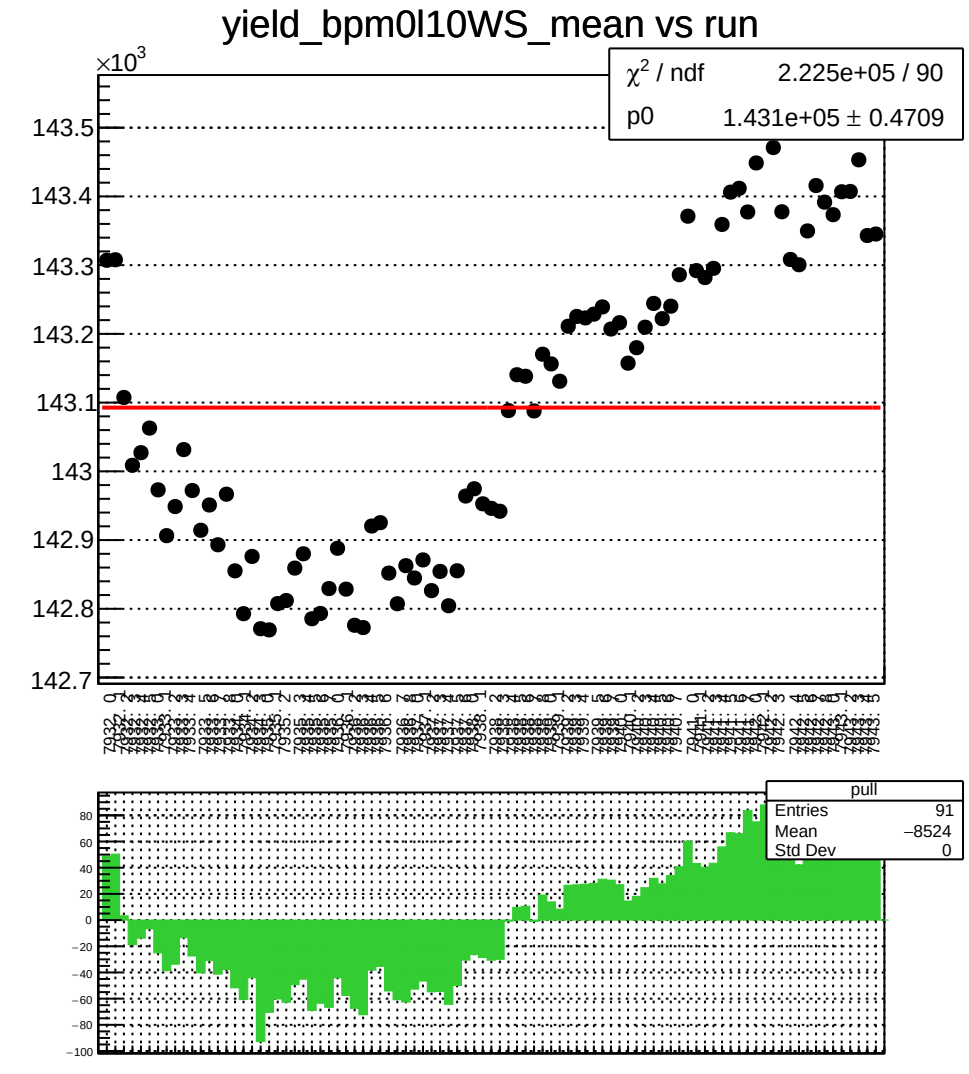

pull1D
Entries 91
Mean 4.713
Std Dev 3.125
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

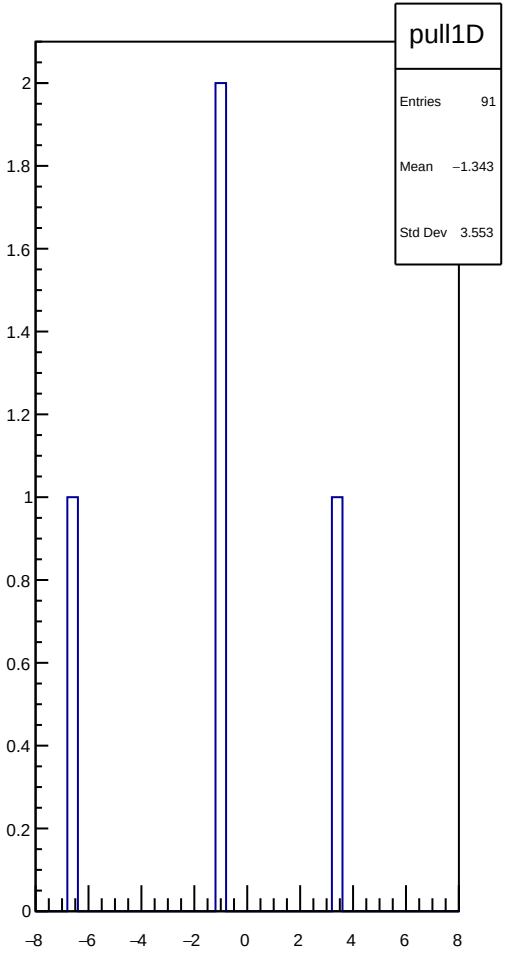

yield_bpm0l08WS_rms vs run
χ^2 / ndf 2432 / 90
p0 6.558 ± 0.004963
7.2
7
6.8
6.6
6.4
6.2
6
5.8

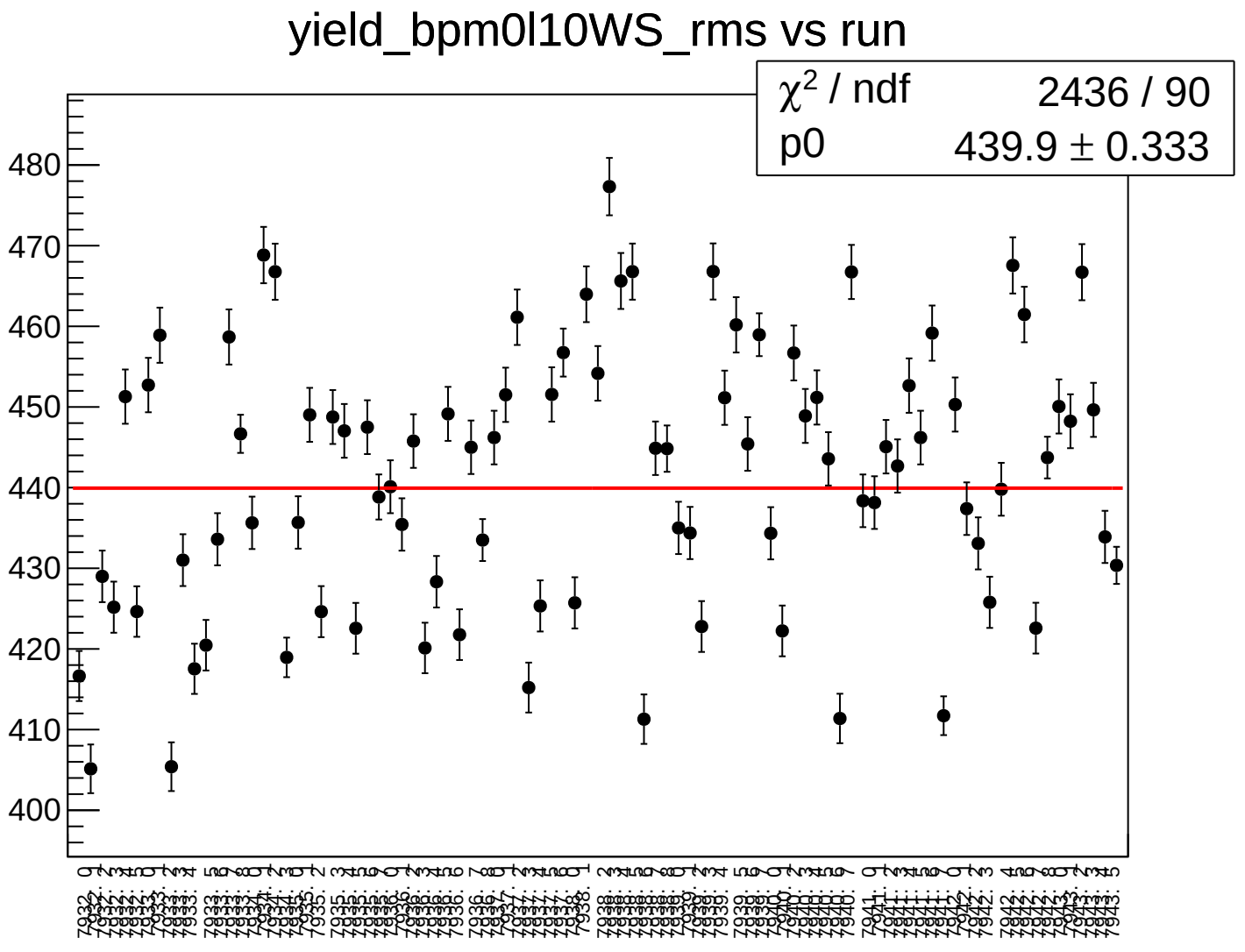

yield_bpm0l09WS_mean vs run
χ² / ndf 2.554e+06 / 90
p0 −2796 ± 0.007745
−2775
−2780
−2785
−2790
−2795
−2800
−2805
−2810
−2815
pull
Entries 91
Mean −7659
Std Dev 0
400
300
200
100
0
−100
−200

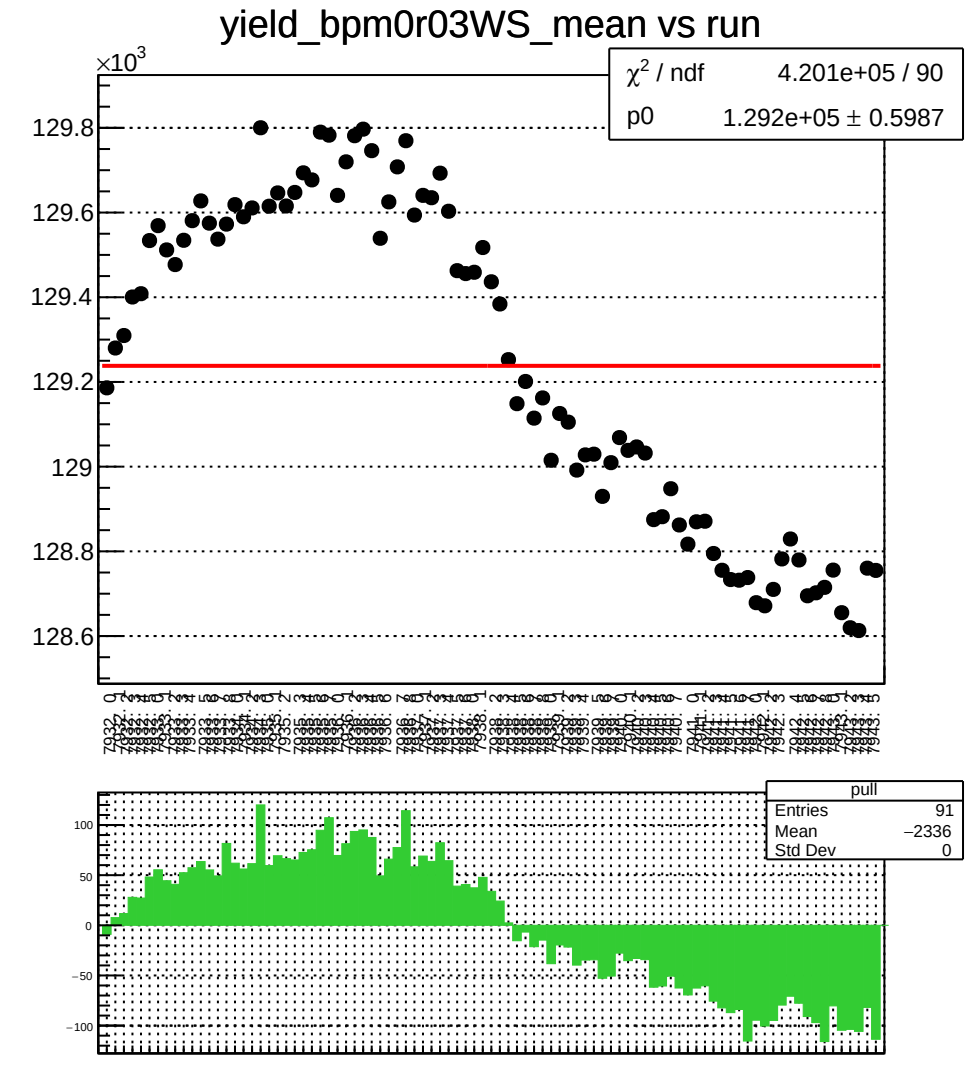

pull1D
Entries 91
Mean −2.983
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

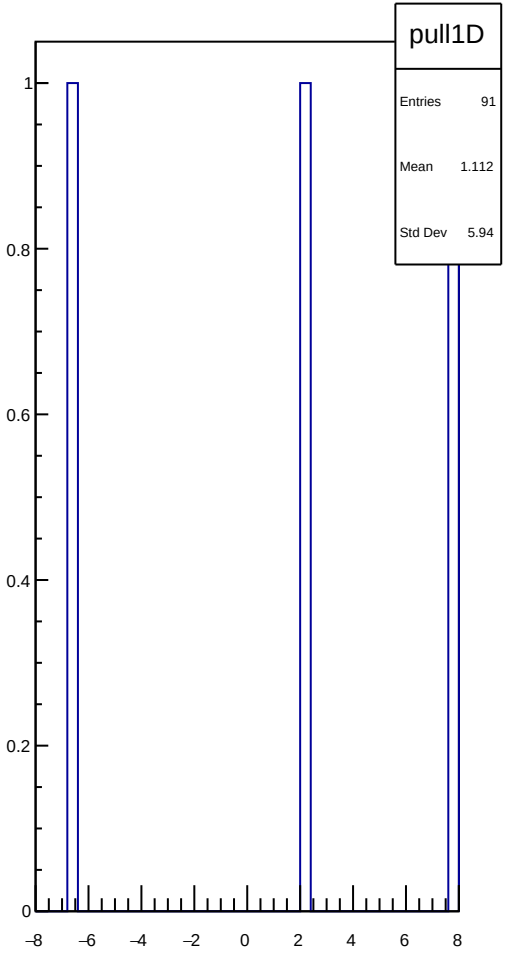

yield_bpm0l09WS_rms vs run
χ^2 / ndf 2345 / 90
p0 7.237 ± 0.005477
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2

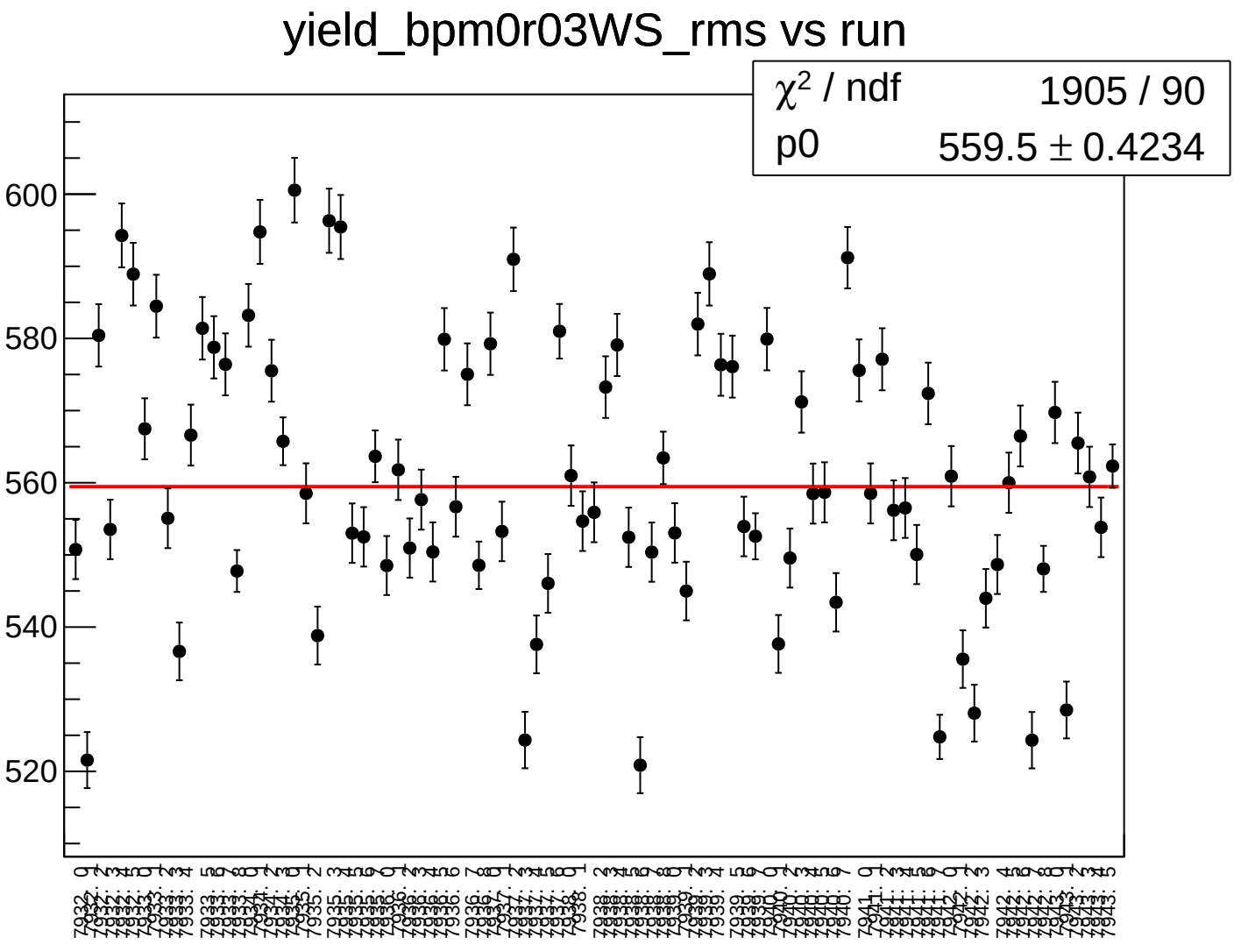

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.225e+05 / 90
p0 1.431e+05 ± 0.4709
143.5
143.4
143.3
143.2
143.1
143
142.9
142.8
142.7
pull
Entries 91
Mean −8524
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

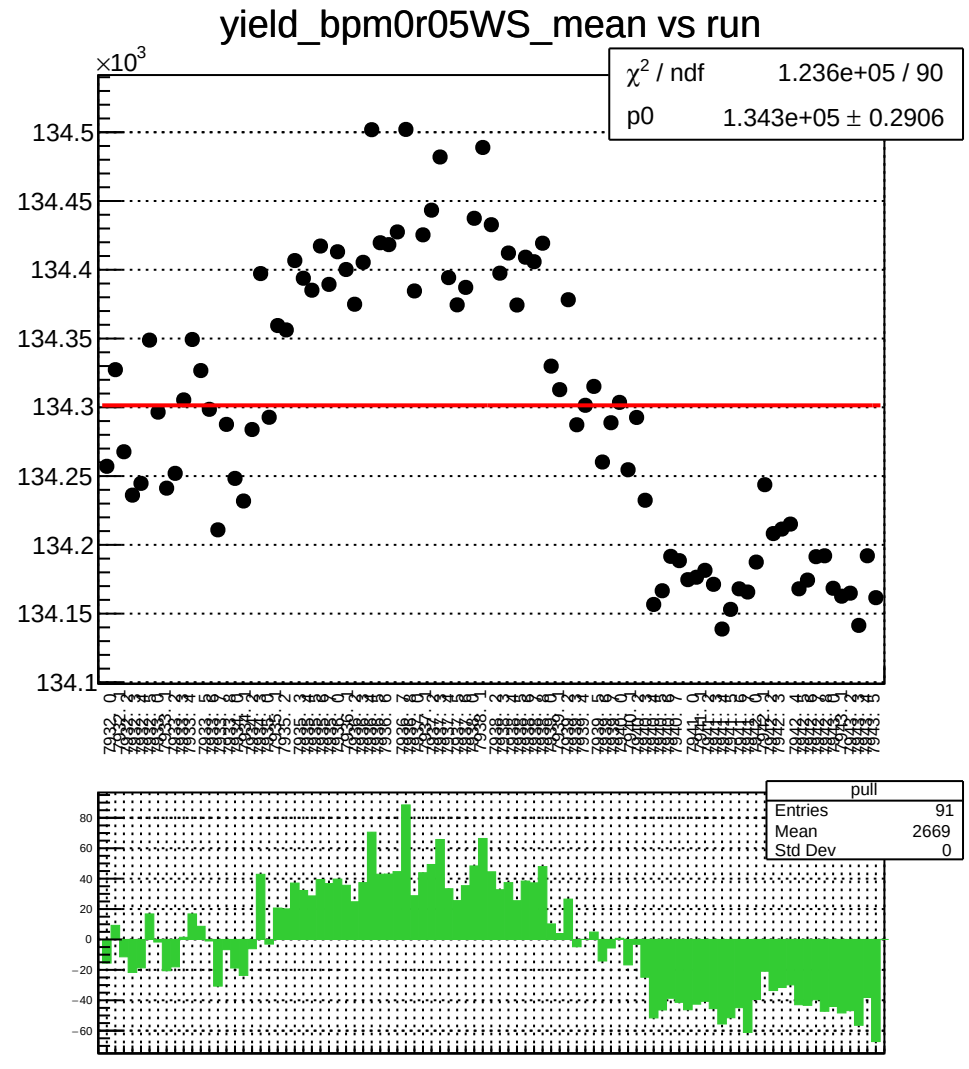

pull1D
Entries 91
Mean −1.343
Std Dev 3.553
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

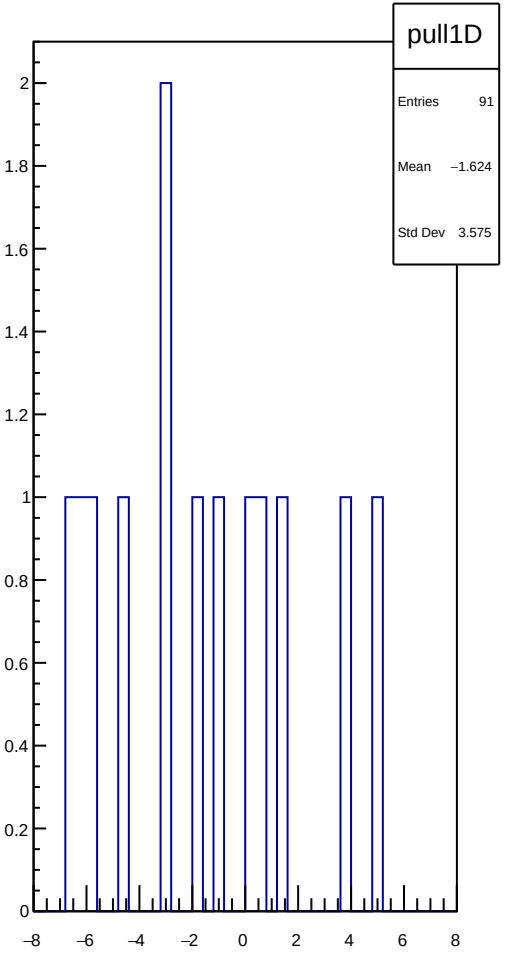

yield_bpm0l10WS_rms vs run
χ² / ndf 2436 / 90
p0 439.9 ± 0.333
480
470
460
450
440
430
420
410
400

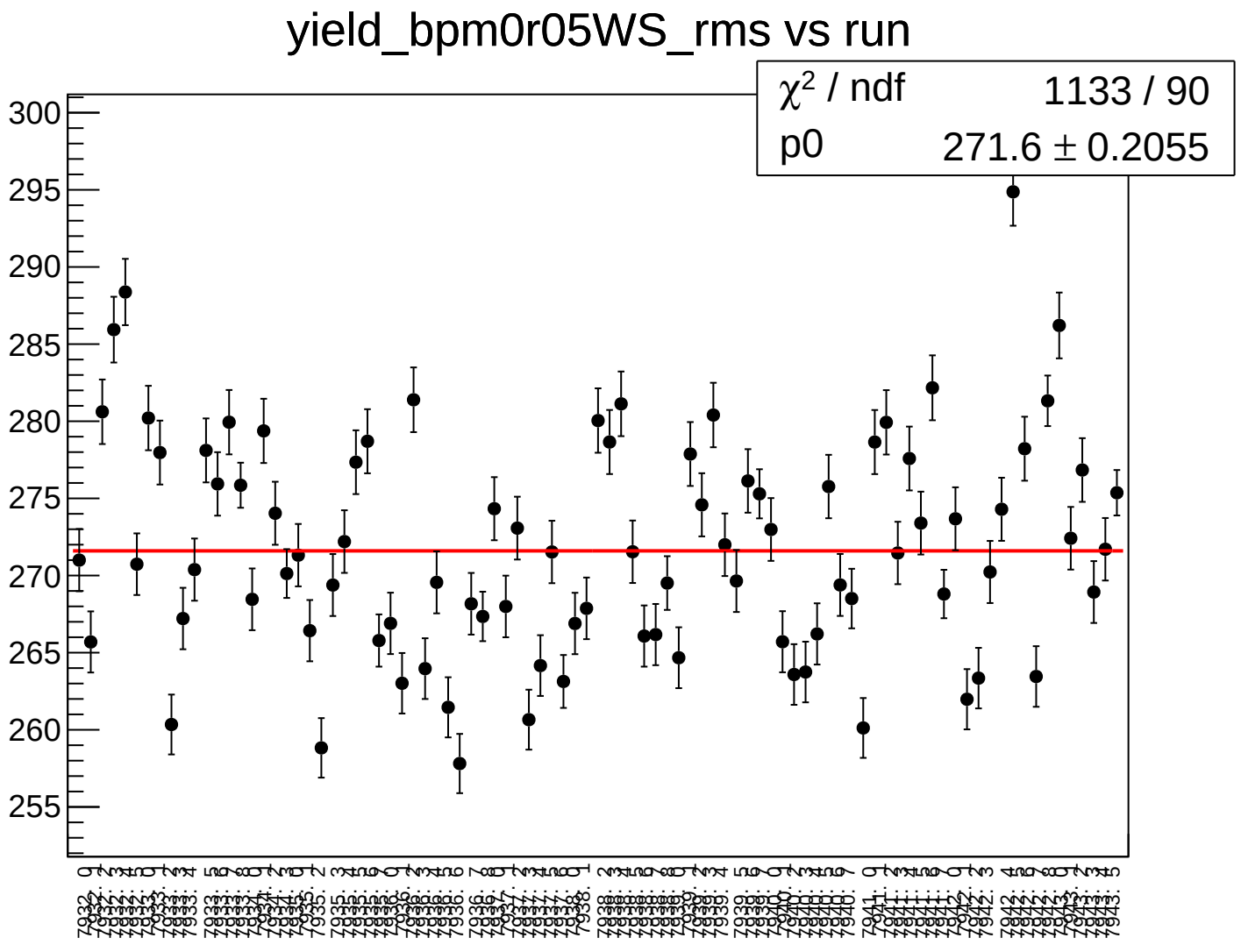

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.201e+05 / 90
p0 1.292e+05 ± 0.5987
129.8
129.6
129.4
129.2
129
128.8
128.6
pull
Entries 91
Mean −2336
Std Dev 0
100
50
0
−50
−100

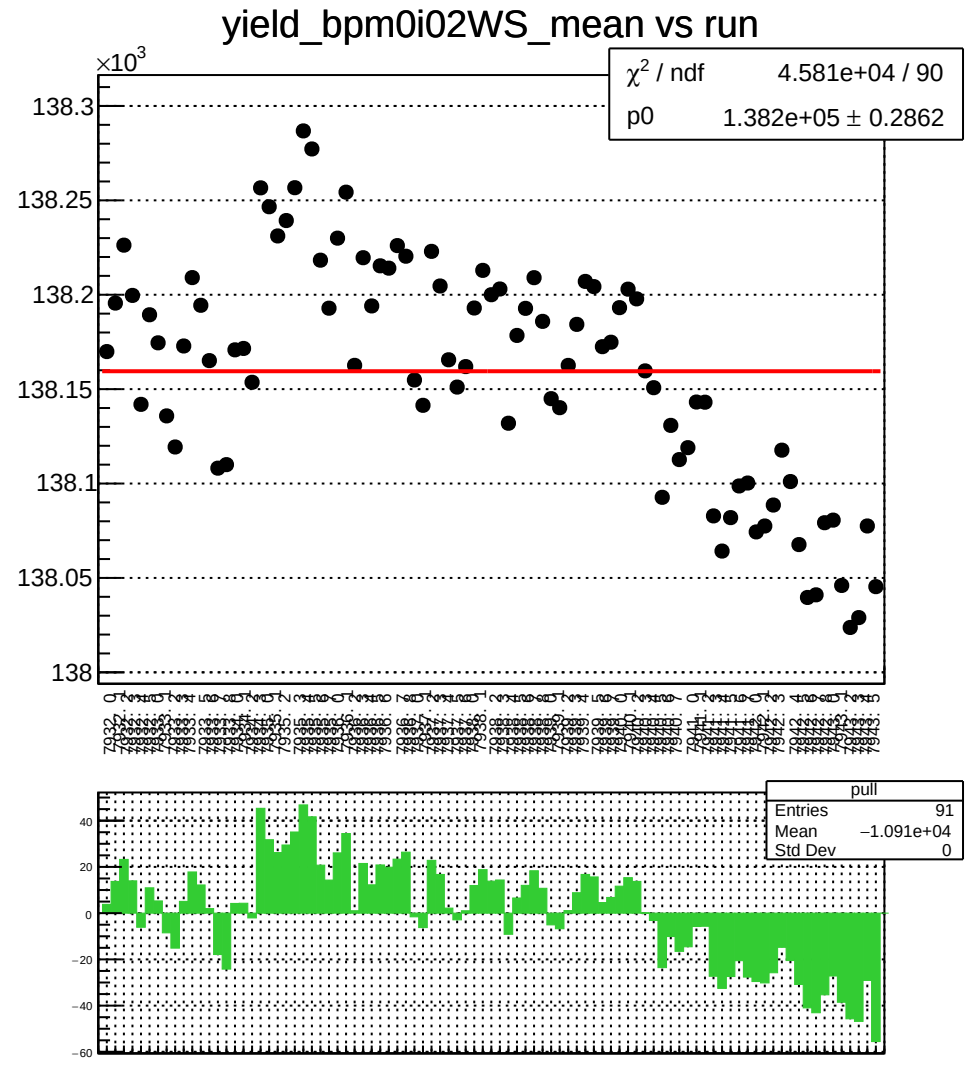

pull1D
Entries 91
Mean 1.112
Std Dev 5.94
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

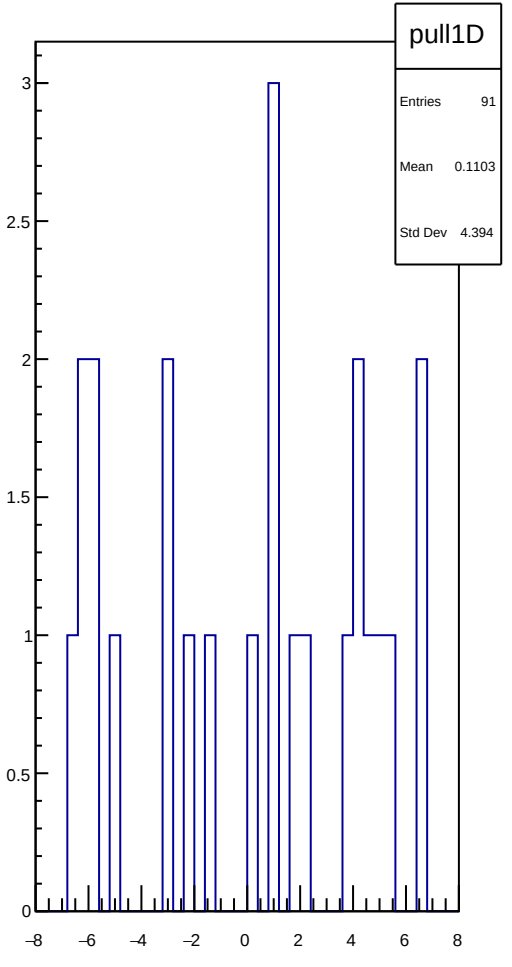

yield_bpm0r03WS_rms vs run
χ² / ndf 1905 / 90
p0 559.5 ± 0.4234
600
580
560
540
520

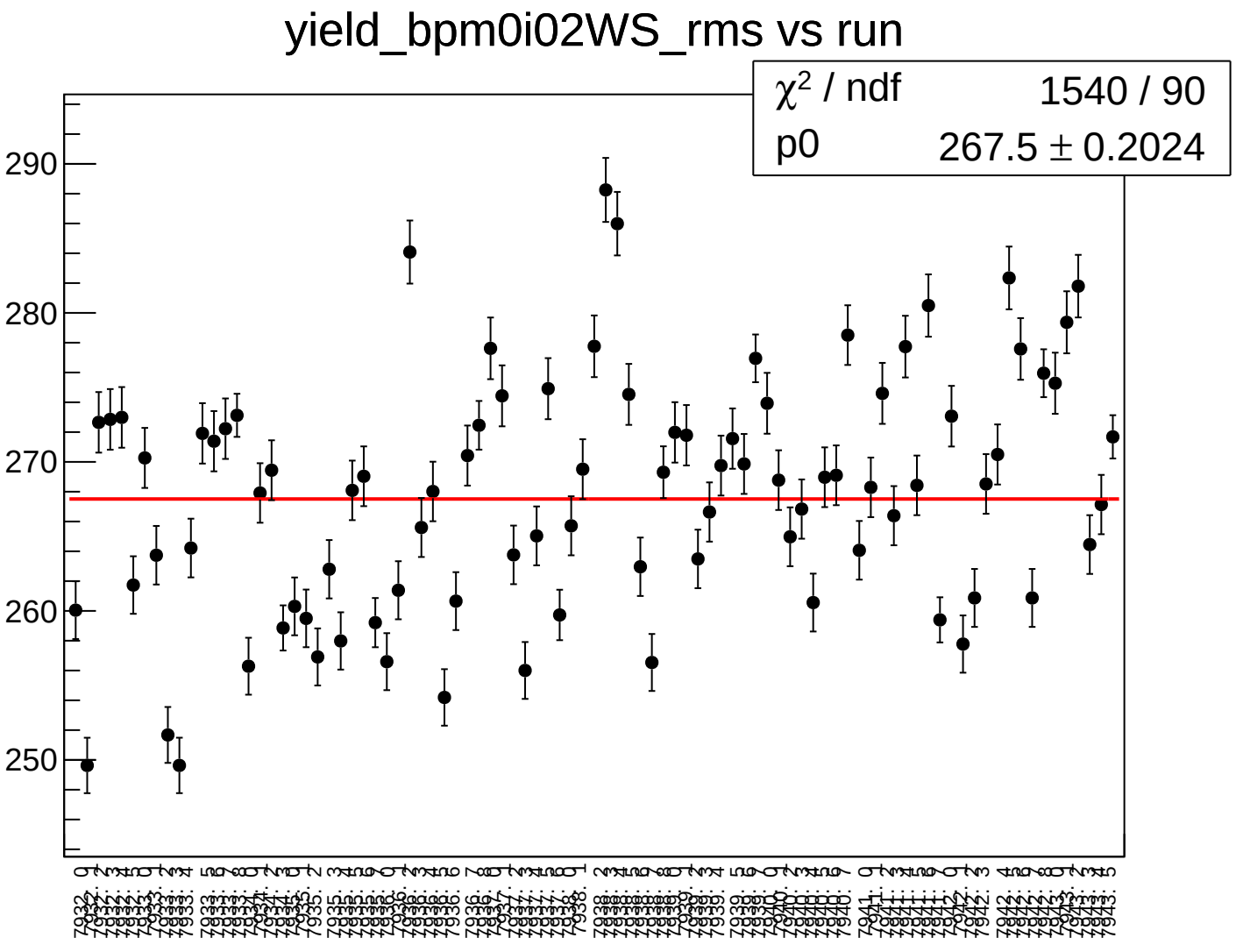

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.236e+05 / 90
p0 1.343e+05 ± 0.2906
134.5
134.45
134.4
134.35
134.3
134.25
134.2
134.15
134.1
pull
Entries 91
Mean 2669
Std Dev 0
80
60
40
20
0
−20
−40
−60

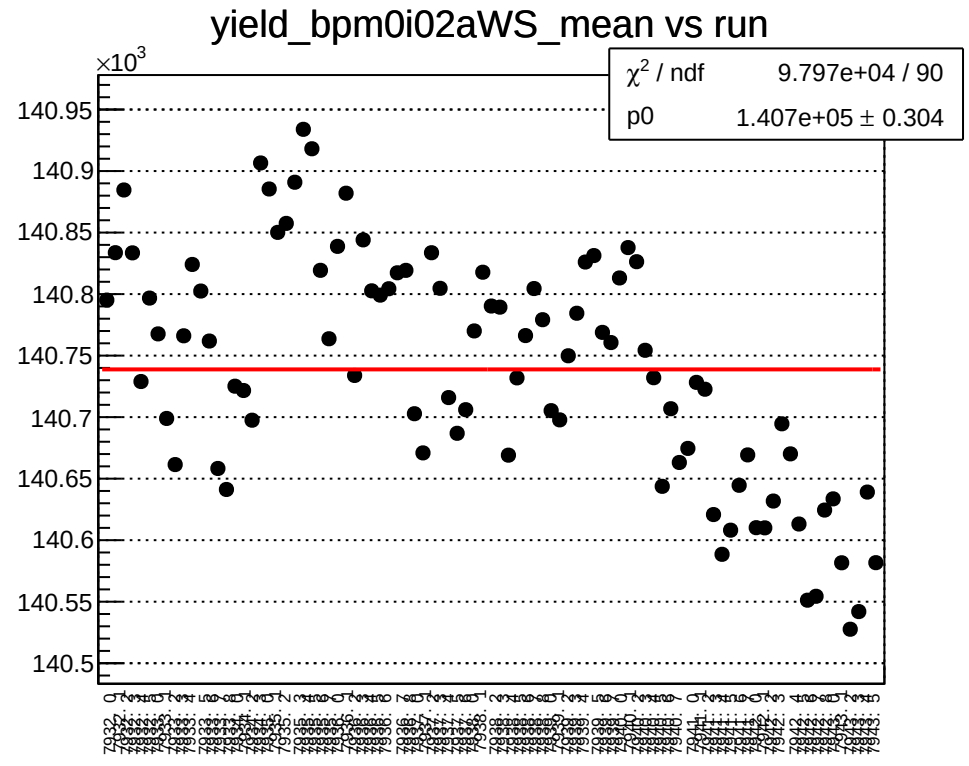

pull1D
Entries 91
Mean −1.624
Std Dev 3.575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

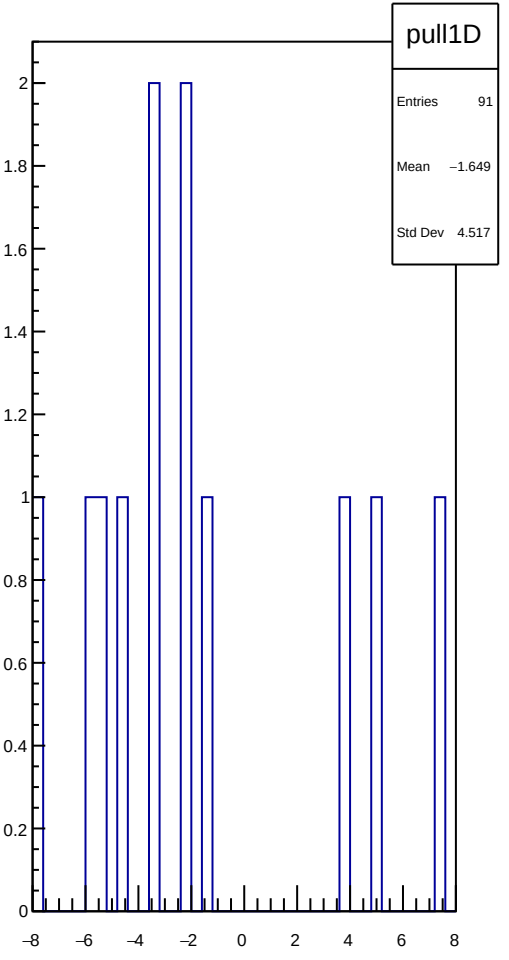

yield_bpm0r05WS_rms vs run
χ² / ndf 1133 / 90
p0 271.6 ± 0.2055
300
295
290
285
280
275
270
265
260
255

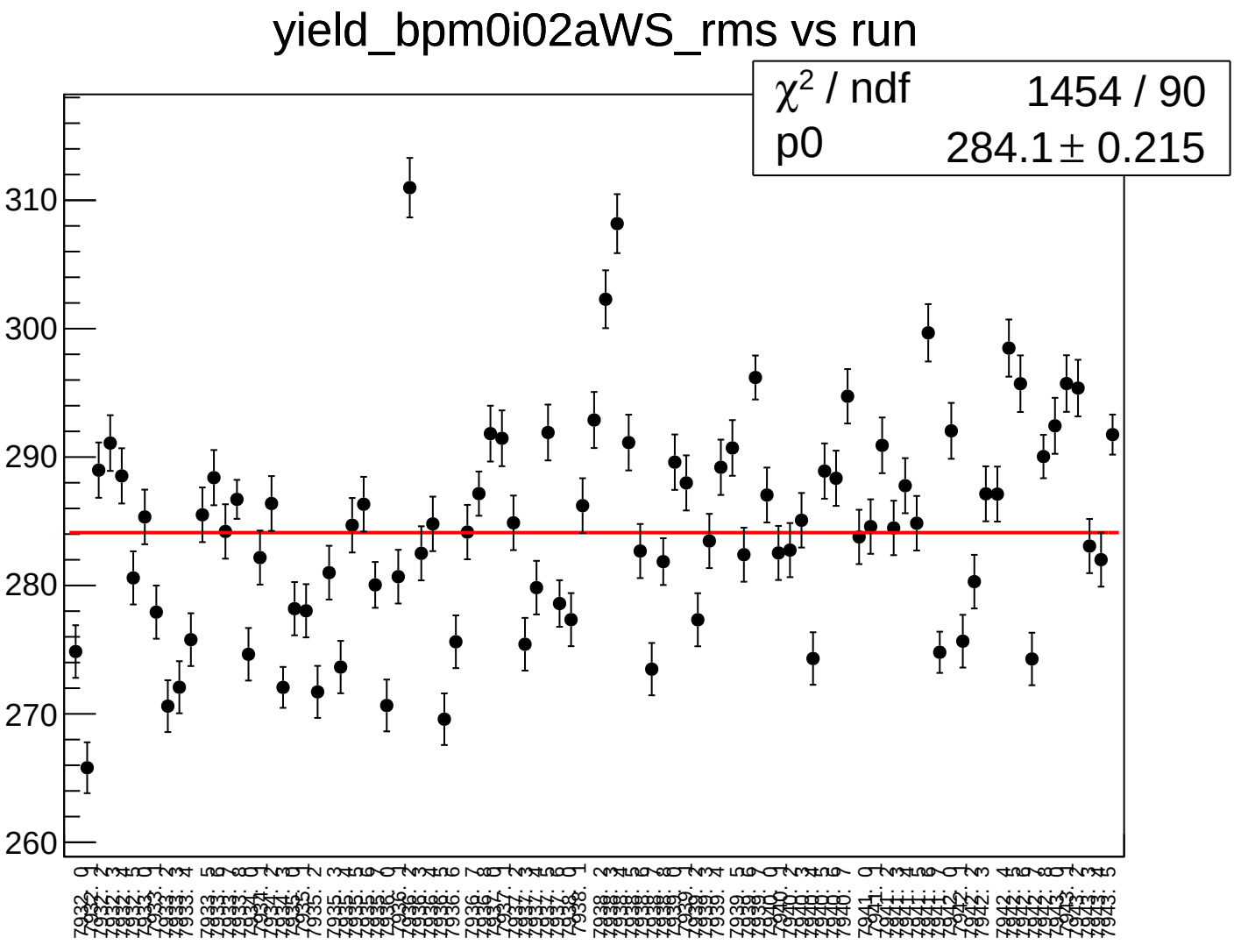

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 4.581e+04 / 90
p0 1.382e+05 ± 0.2862
138.3
138.25
138.2
138.15
138.1
138.05
138
pull
Entries 91
Mean −1.091e+04
Std Dev 0
40
20
0
−20
−40
−60

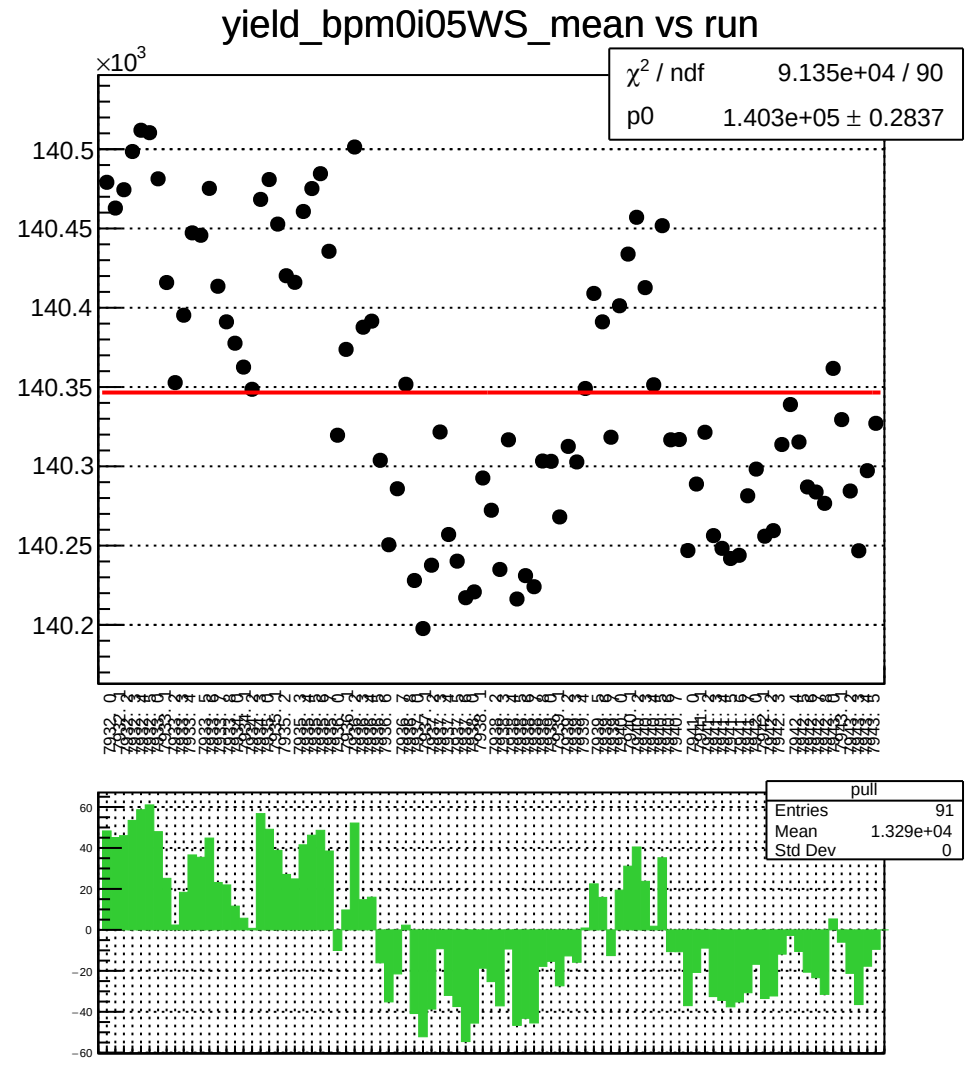

pull1D
Entries 91
Mean 0.1103
Std Dev 4.394
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

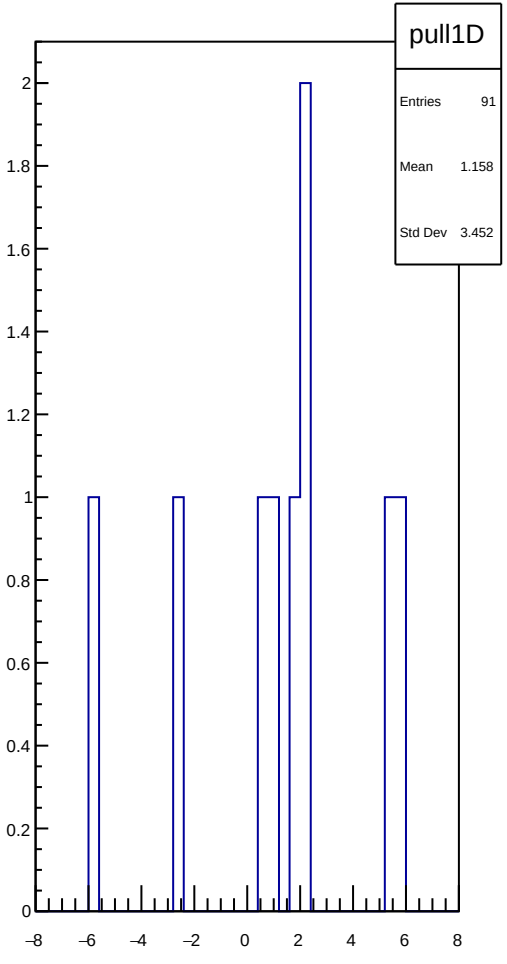

yield_bpm0i02WS_rms vs run
χ² / ndf 1540 / 90
p0 267.5 ± 0.2024
290
280
270
260
250

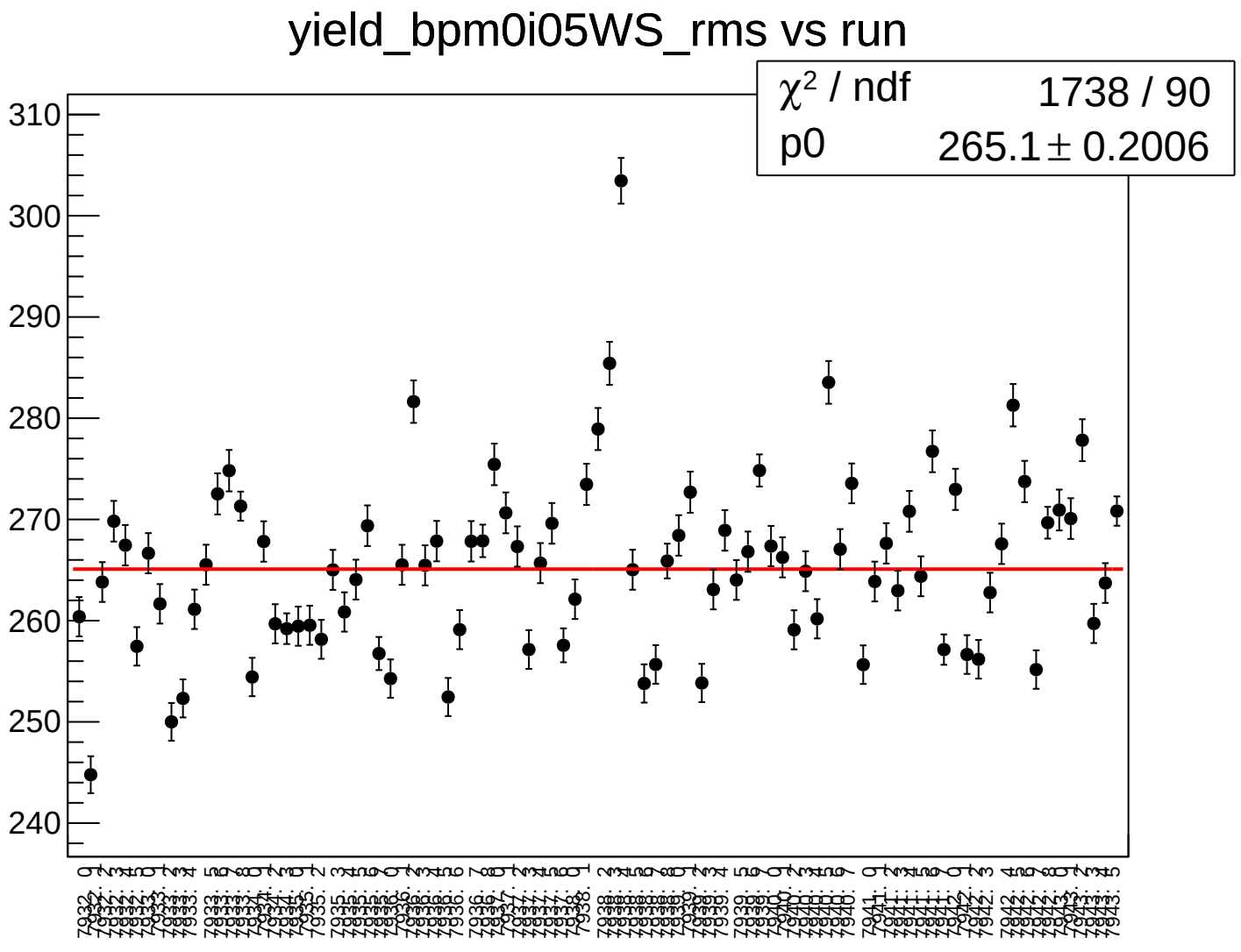

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 9.797e+04 / 90
p0 1.407e+05 ± 0.304
140.95
140.9
140.85
140.8
140.75
140.7
140.65
140.6
140.55
140.5
pull
Entries 91
Mean −1.201e+04
Std Dev 0
80
60
40
20
0
−20
−40
−60

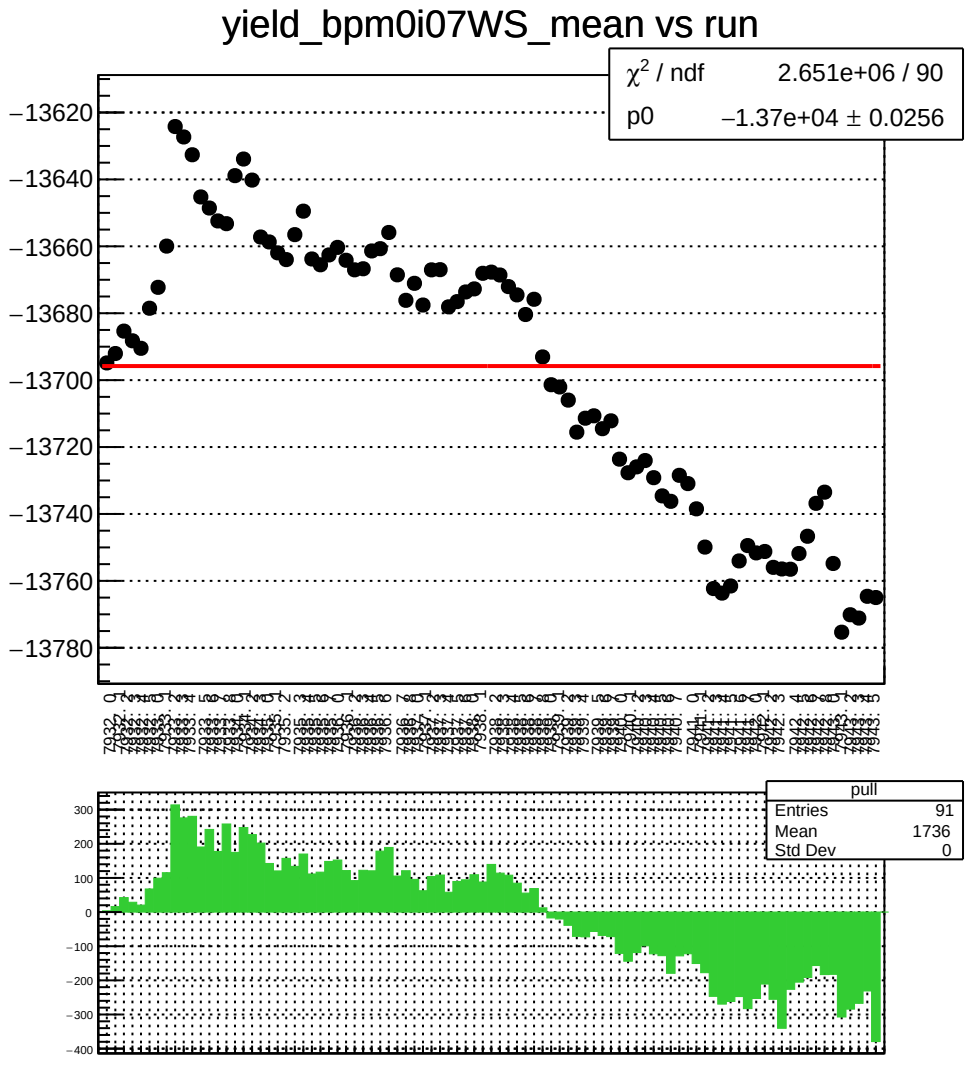

pull1D
Entries 91
Mean −1.649
Std Dev 4.517
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

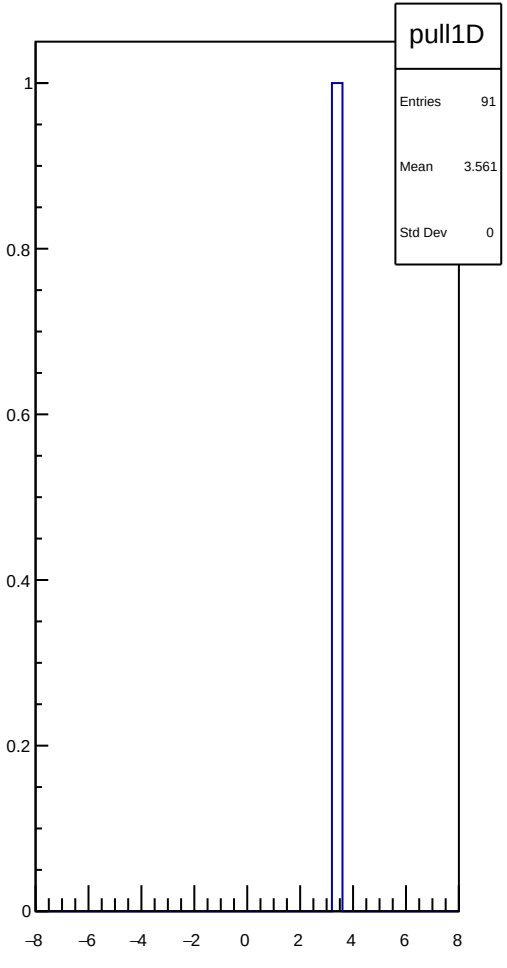

yield_bpm0i02aWS_rms vs run
χ² / ndf 1454 / 90
p0 284.1 ± 0.215
310
300
290
280
270
260

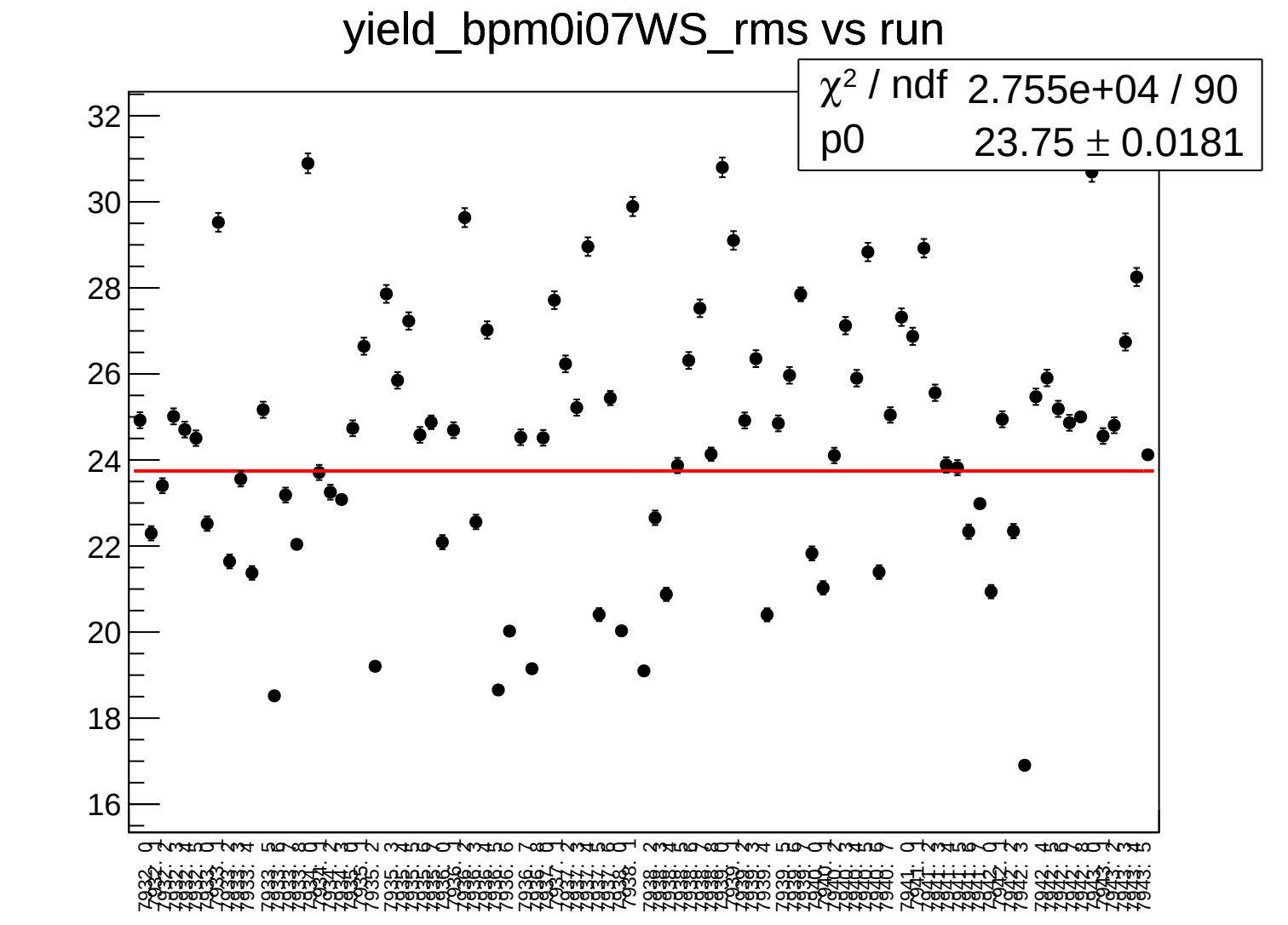

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 9.135e+04 / 90
p0 1.403e+05 ± 0.2837
140.5
140.45
140.4
140.35
140.3
140.25
140.2
pull
Entries 91
Mean 1.329e+04
Std Dev 0
60
40
20
0
−20
−40
−60

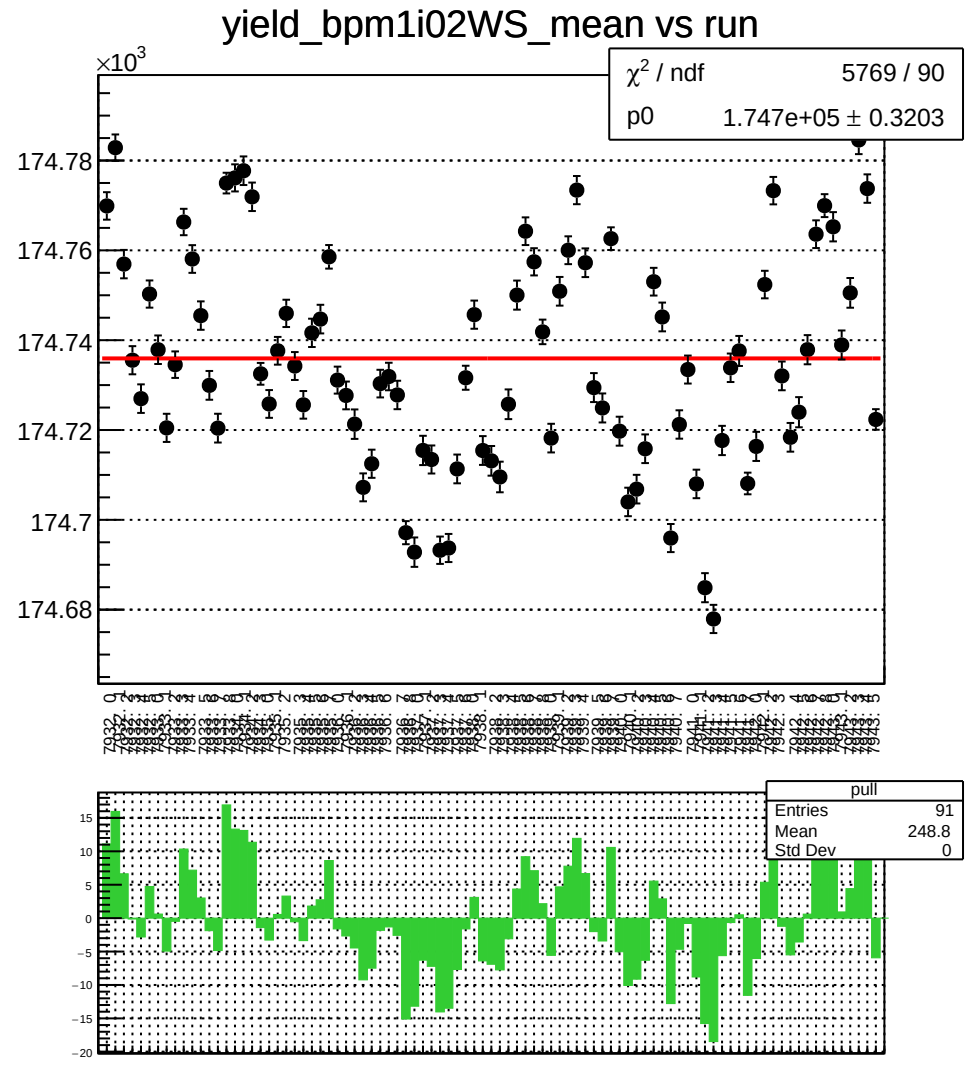

pull1D
Entries 91
Mean 1.158
Std Dev 3.452
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

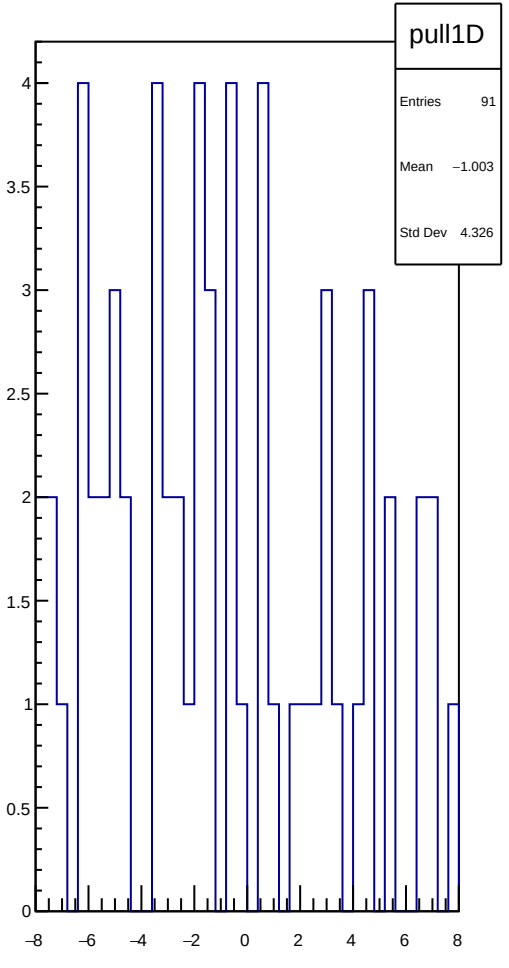

yield_bpm0i05WS_rms vs run
χ² / ndf 1738 / 90
p0 265.1 ± 0.2006
310
300
290
280
270
260
250
240

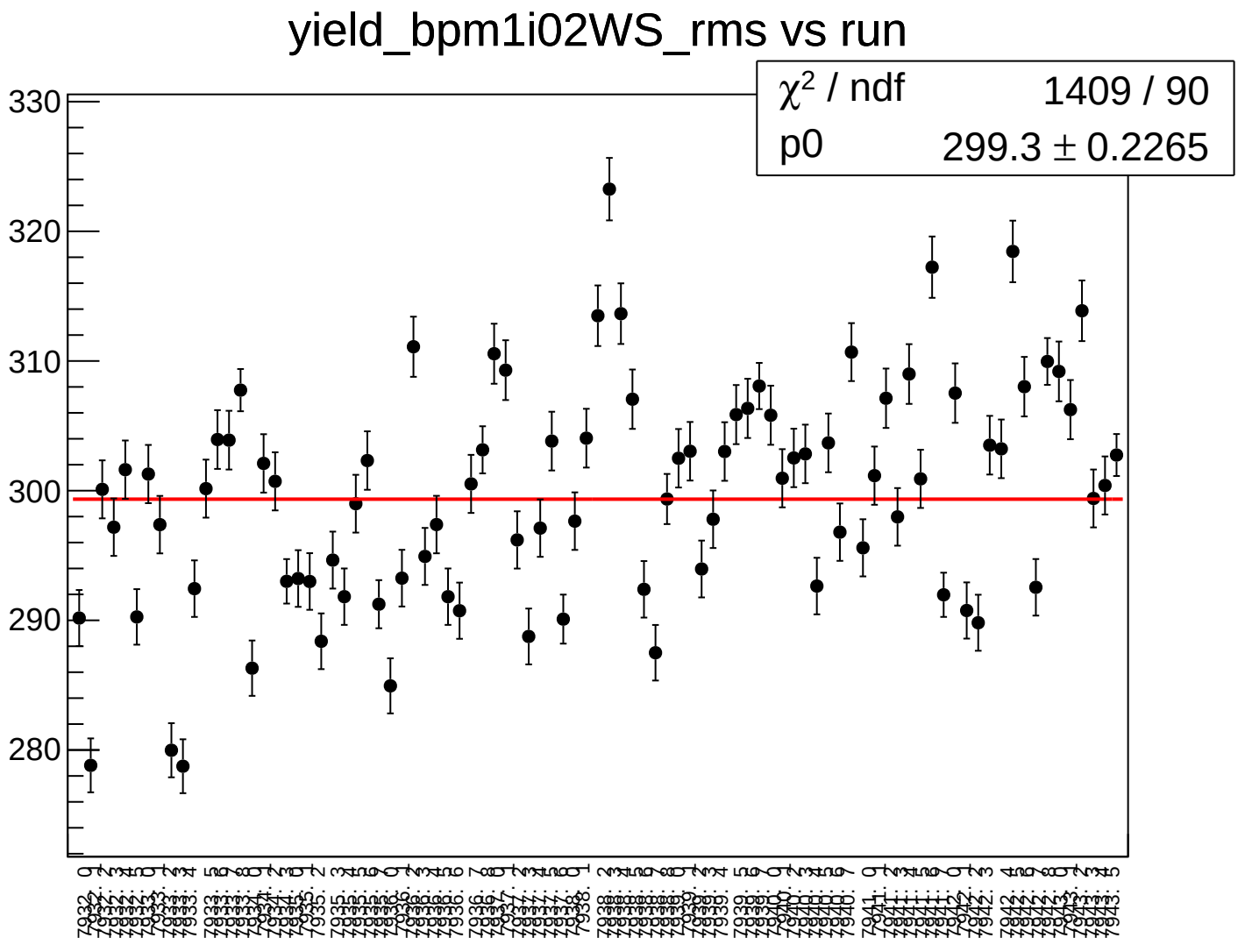

yield_bpm0i07WS_mean vs run
χ² / ndf 2.651e+06 / 90
p0 −1.37e+04 ± 0.0256
−13620
−13640
−13660
−13680
−13700
−13720
−13740
−13760
−13780
pull
Entries 91
Mean 1736
Std Dev 0
300
200
100
0
−100
−200
−300
−400

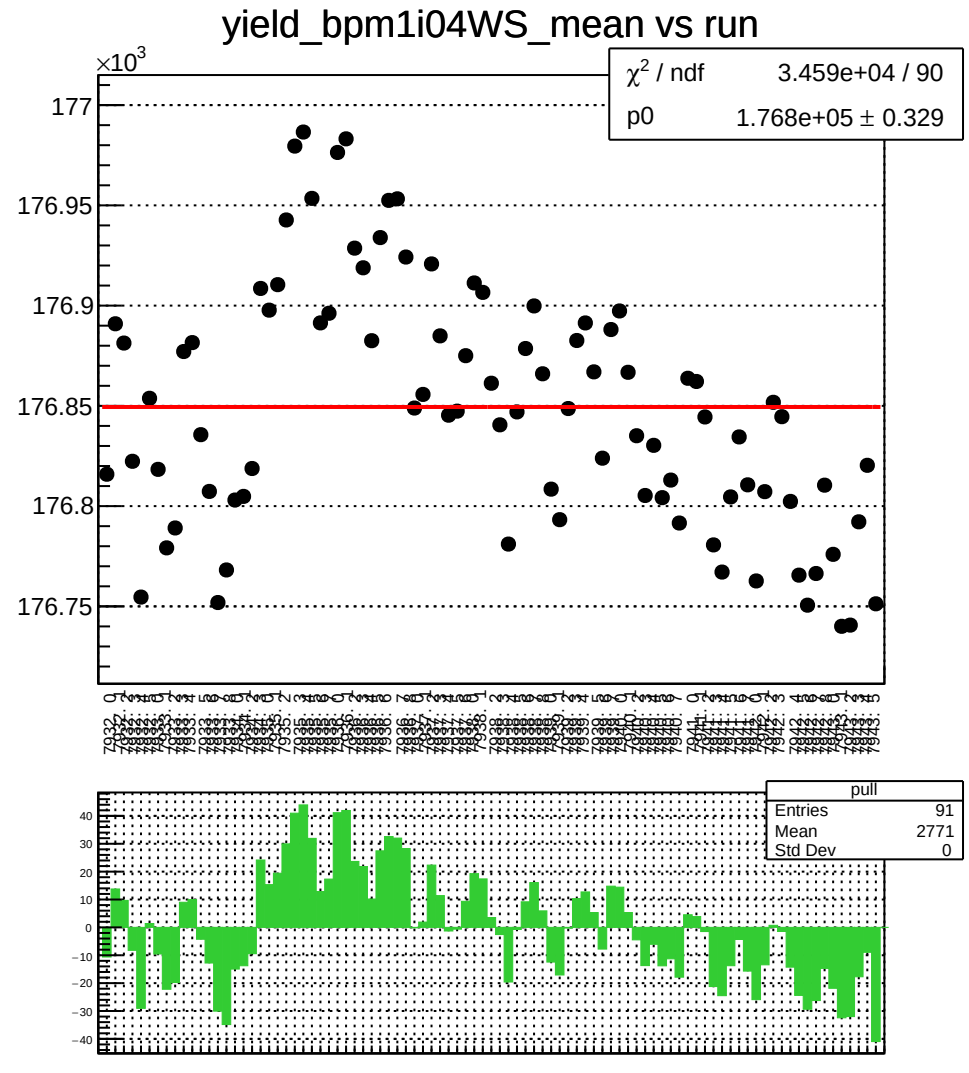

pull1D
Entries 91
Mean 3.561
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

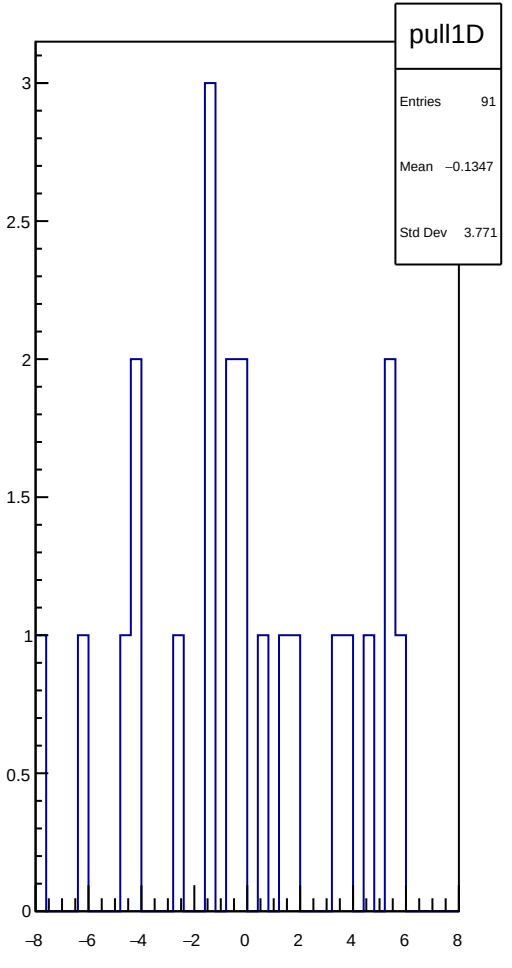

yield_bpm0i07WS_rms vs run
χ² / ndf 2.755e+04 / 90
p0 23.75 ± 0.0181
32
30
28
26
24
22
20
18
16

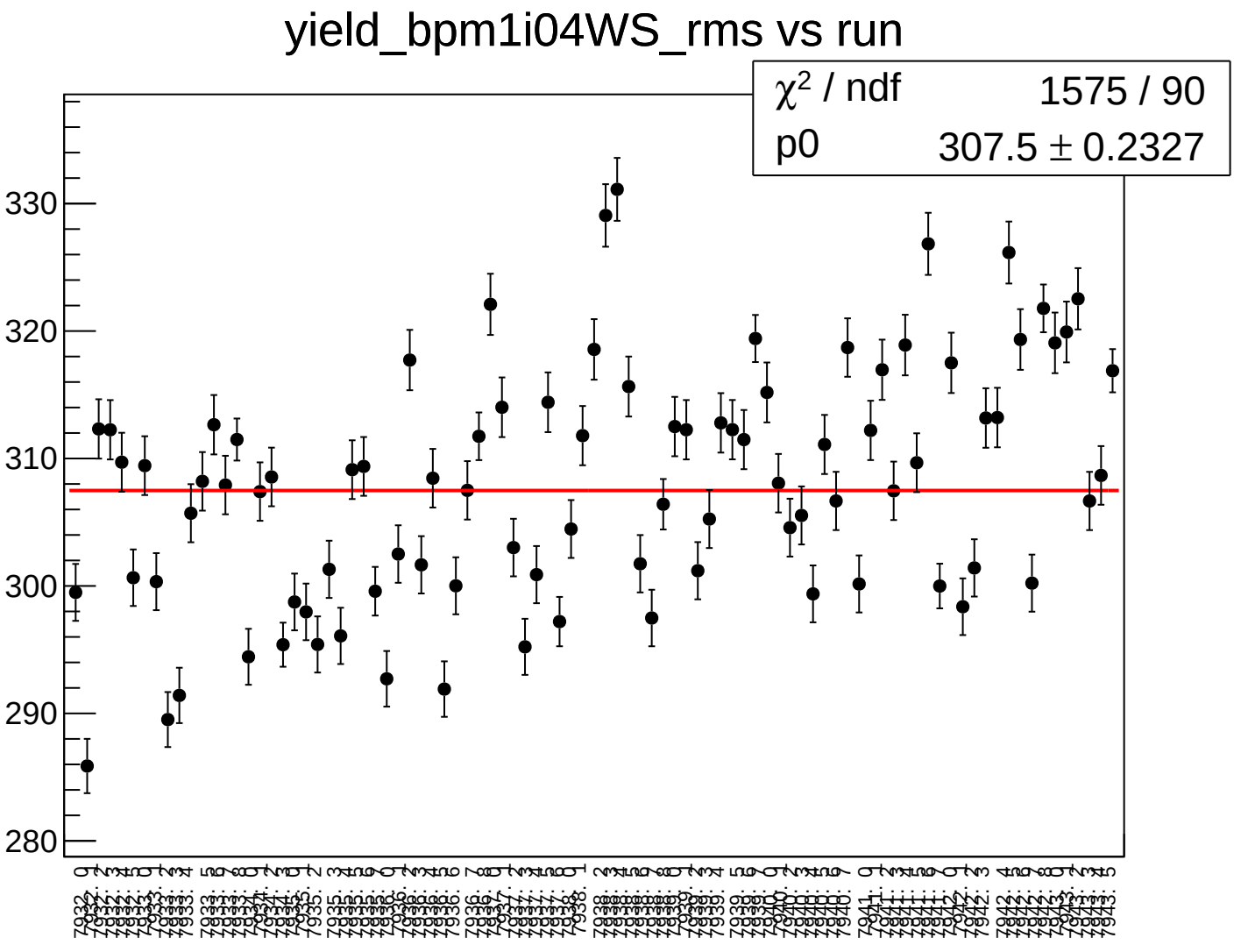

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5769 / 90
p0 1.747e+05 ± 0.3203
174.78
174.76
174.74
174.72
174.7
174.68
pull
Entries 91
Mean 248.8
Std Dev 0
15
10
5
0
−5
−10
−15
−20

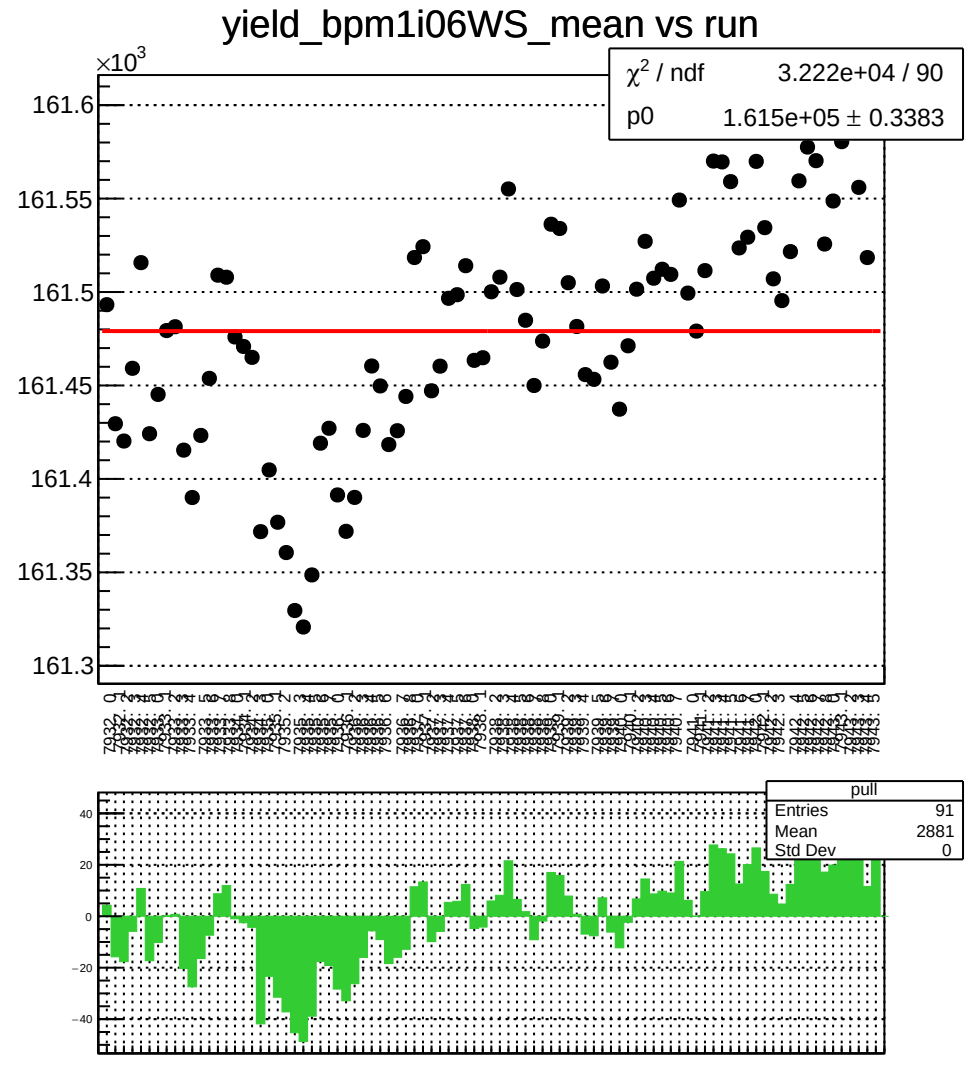

pull1D
Entries 91
Mean −1.003
Std Dev 4.326
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

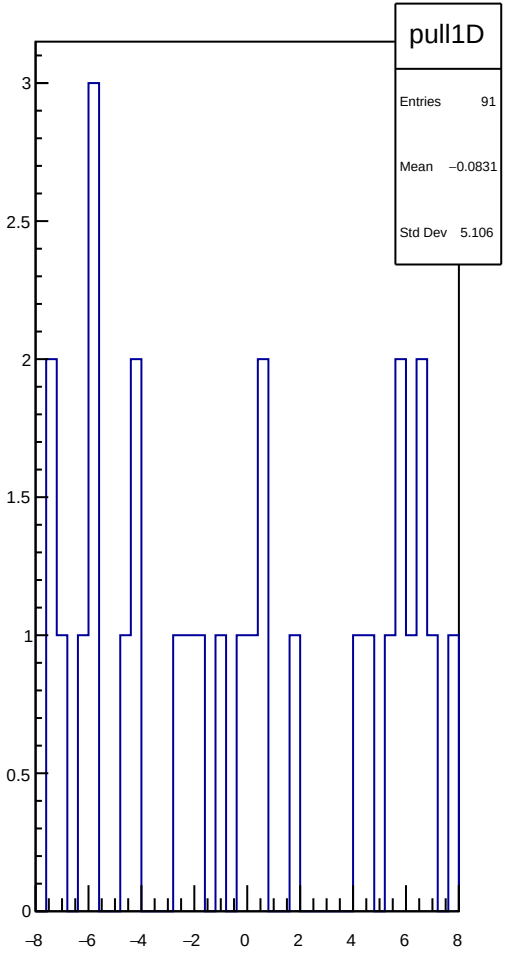

yield_bpm1i02WS_rms vs run
χ² / ndf 1409 / 90
p0 299.3 ± 0.2265
330
320
310
300
290
280

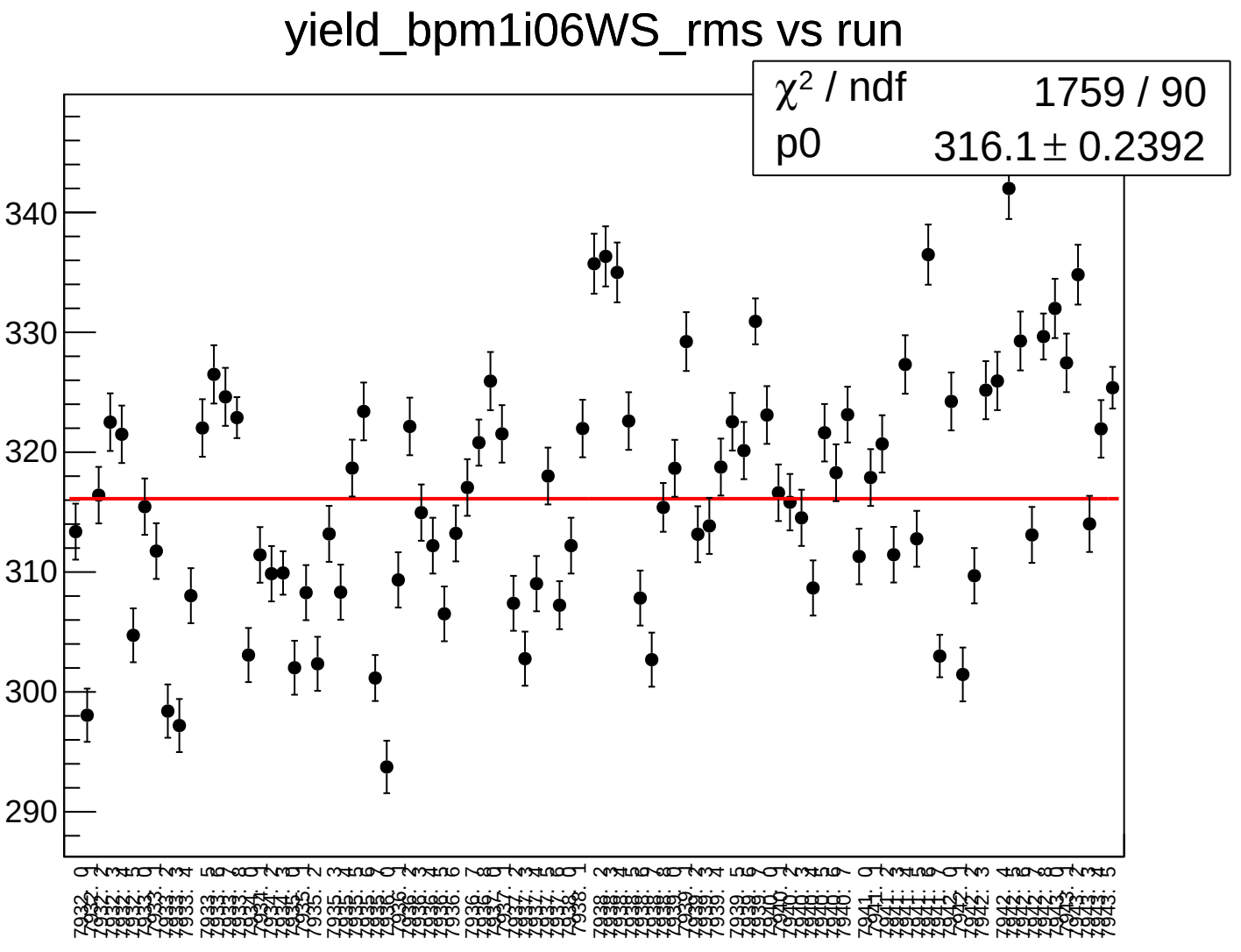

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.459e+04 / 90
p0 1.768e+05 ± 0.329
177
176.95
176.9
176.85
176.8
176.75
pull
Entries 91
Mean 2771
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

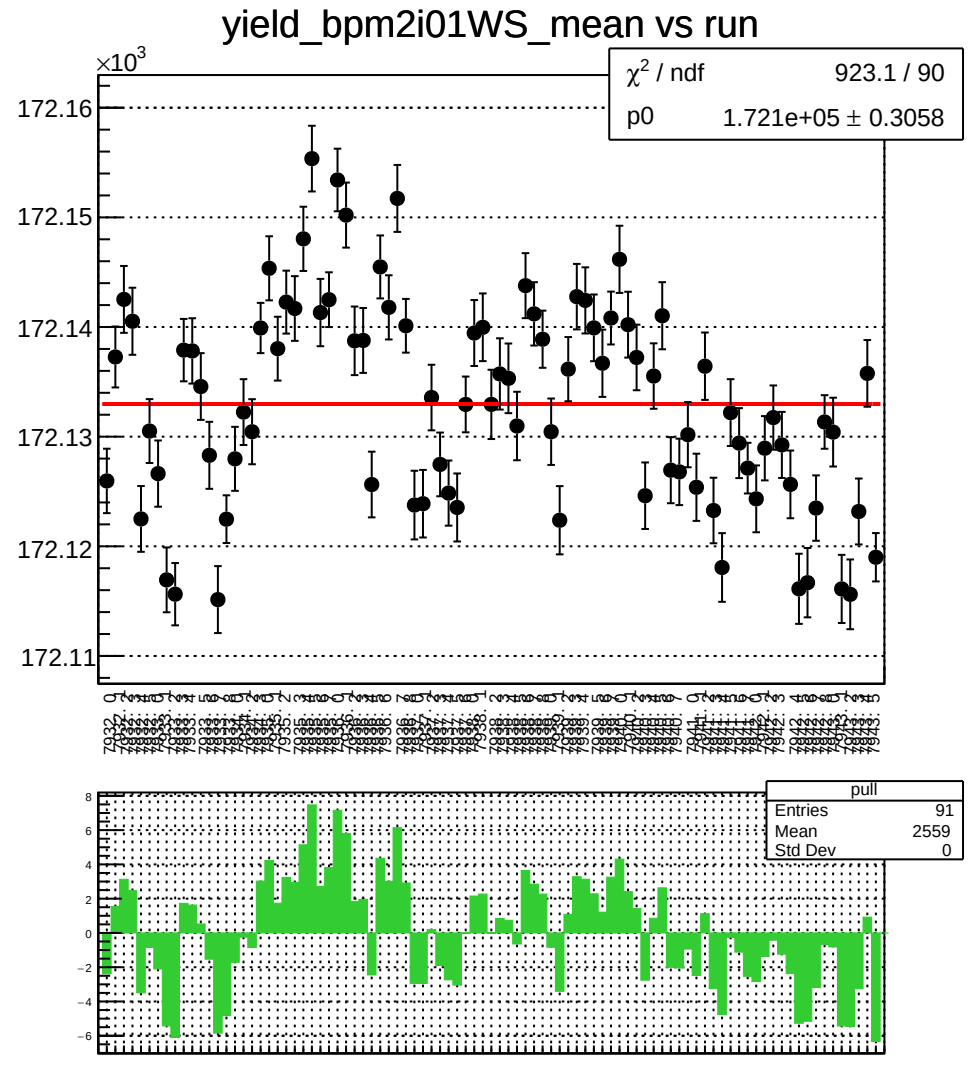

pull1D
Entries 91
Mean −0.1347
Std Dev 3.771
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

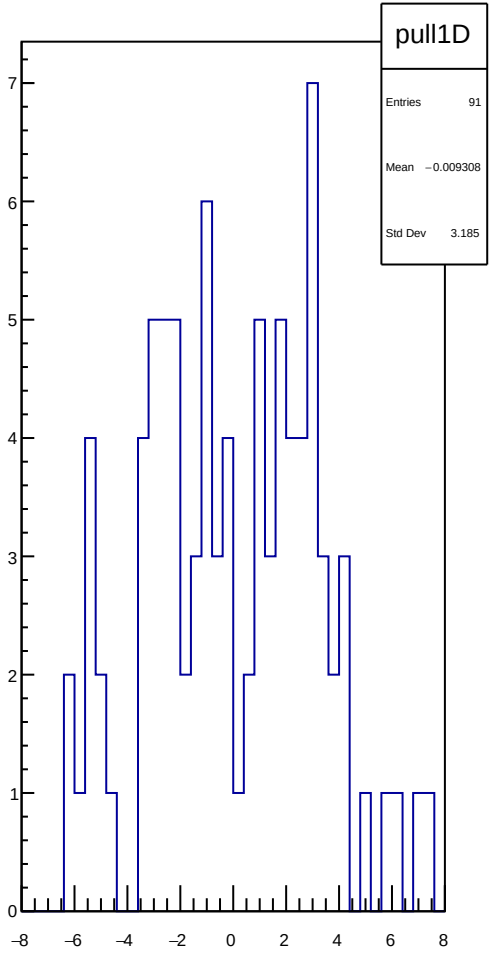

yield_bpm1i04WS_rms vs run
χ² / ndf 1575 / 90
p0 307.5 ± 0.2327
330
320
310
300
290
280

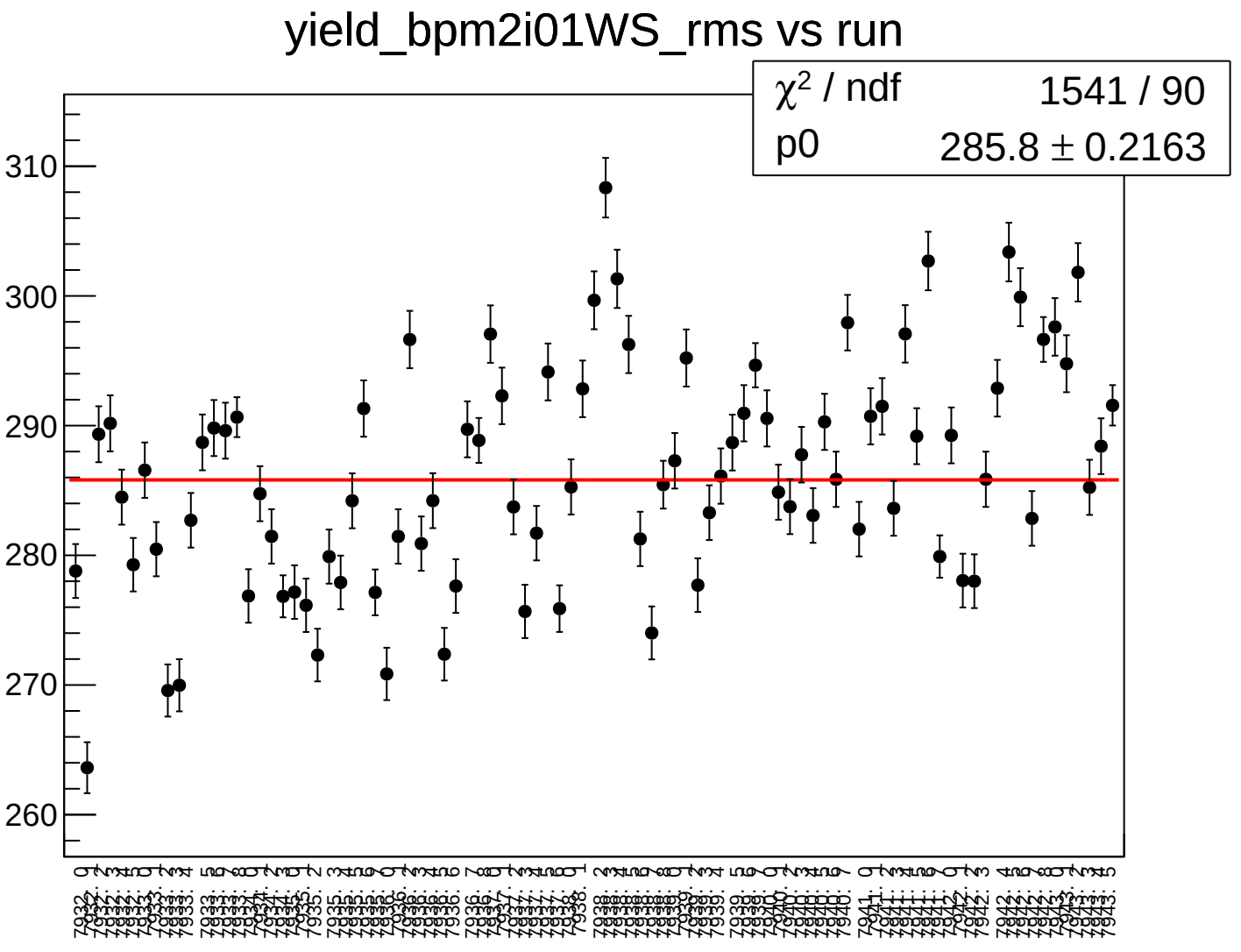

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.222e+04 / 90
p0 1.615e+05 ± 0.3383
161.6
161.55
161.5
161.45
161.4
161.35
161.3
pull
Entries 91
Mean 2881
Std Dev 0
40
20
0
−20
−40

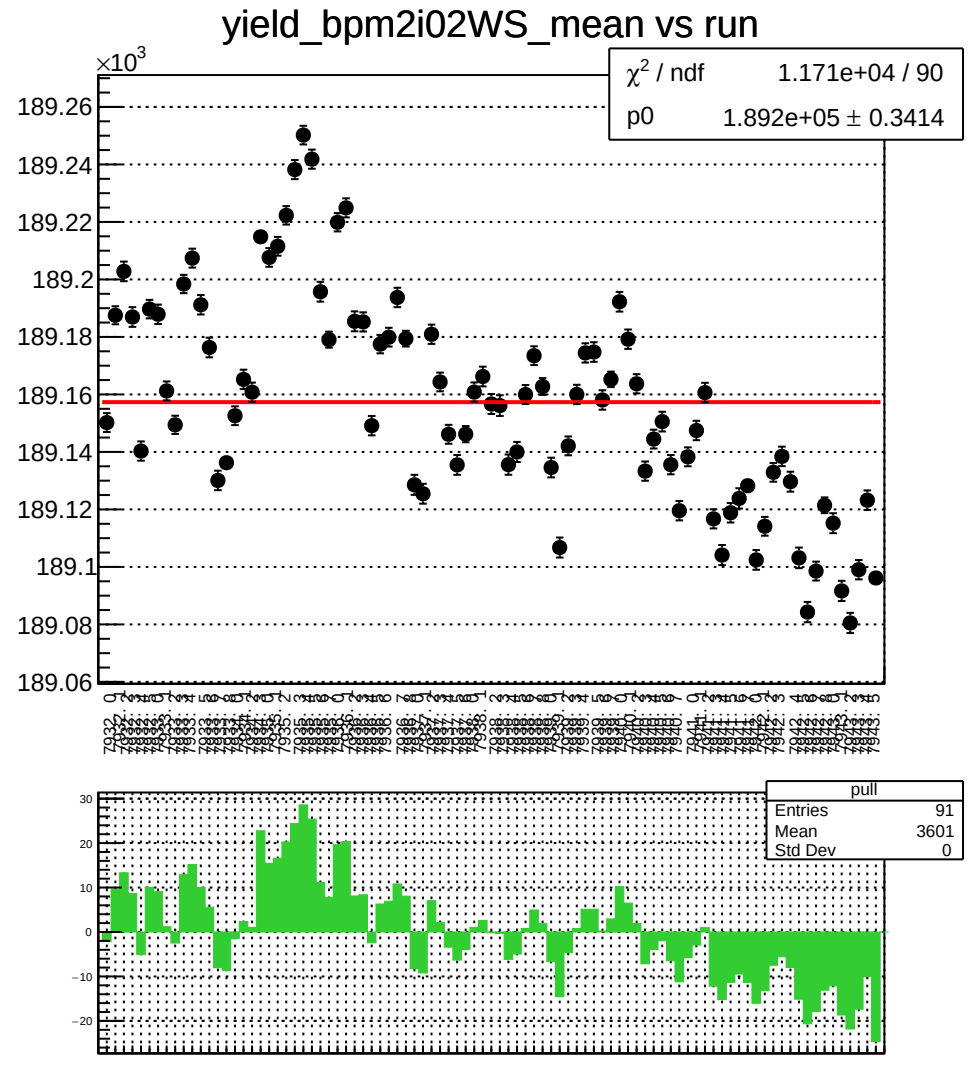

pull1D
Entries 91
Mean −0.0831
Std Dev 5.106
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

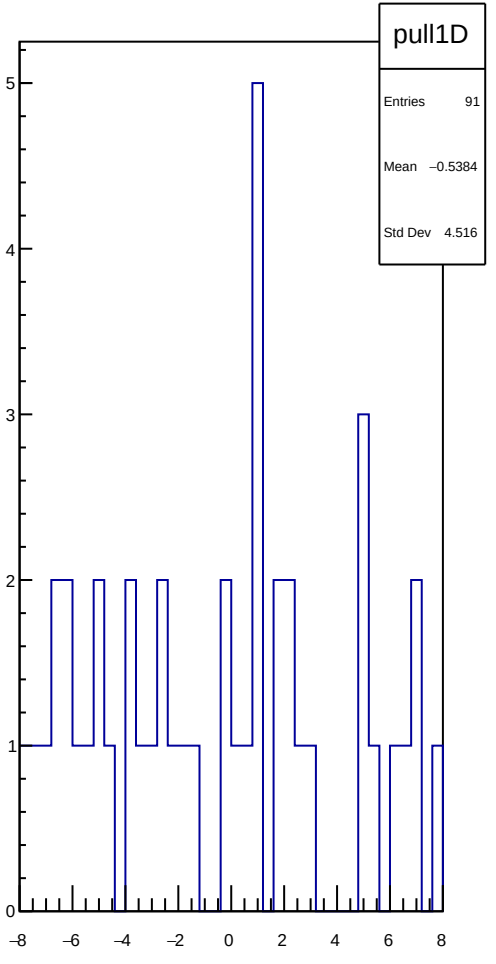

yield_bpm1i06WS_rms vs run
χ² / ndf 1759 / 90
p0 316.1 ± 0.2392
340
330
320
310
300
290

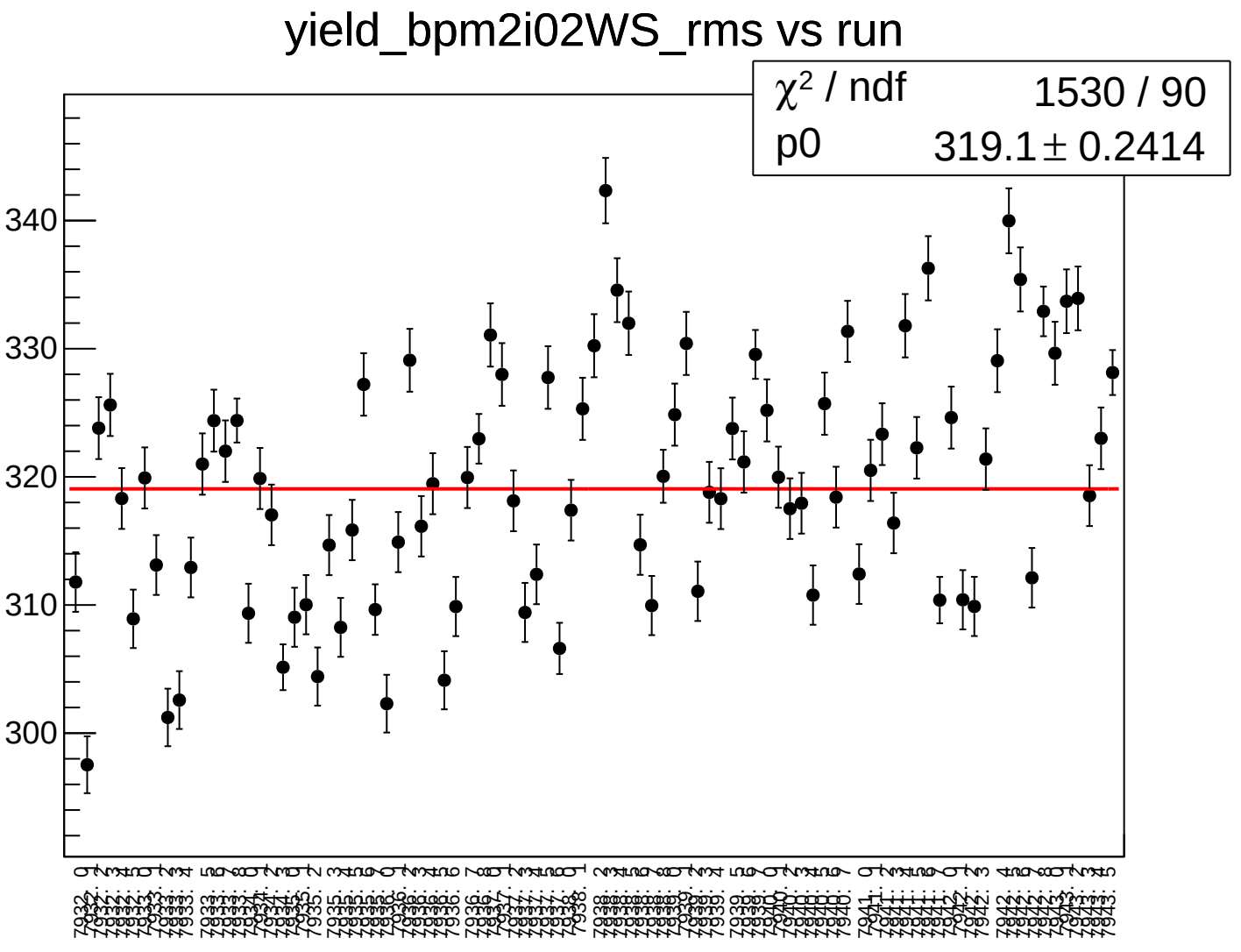

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 923.1 / 90
p0 1.721e+05 ± 0.3058
172.16
172.15
172.14
172.13
172.12
172.11
pull
Entries 91
Mean 2559
Std Dev 0

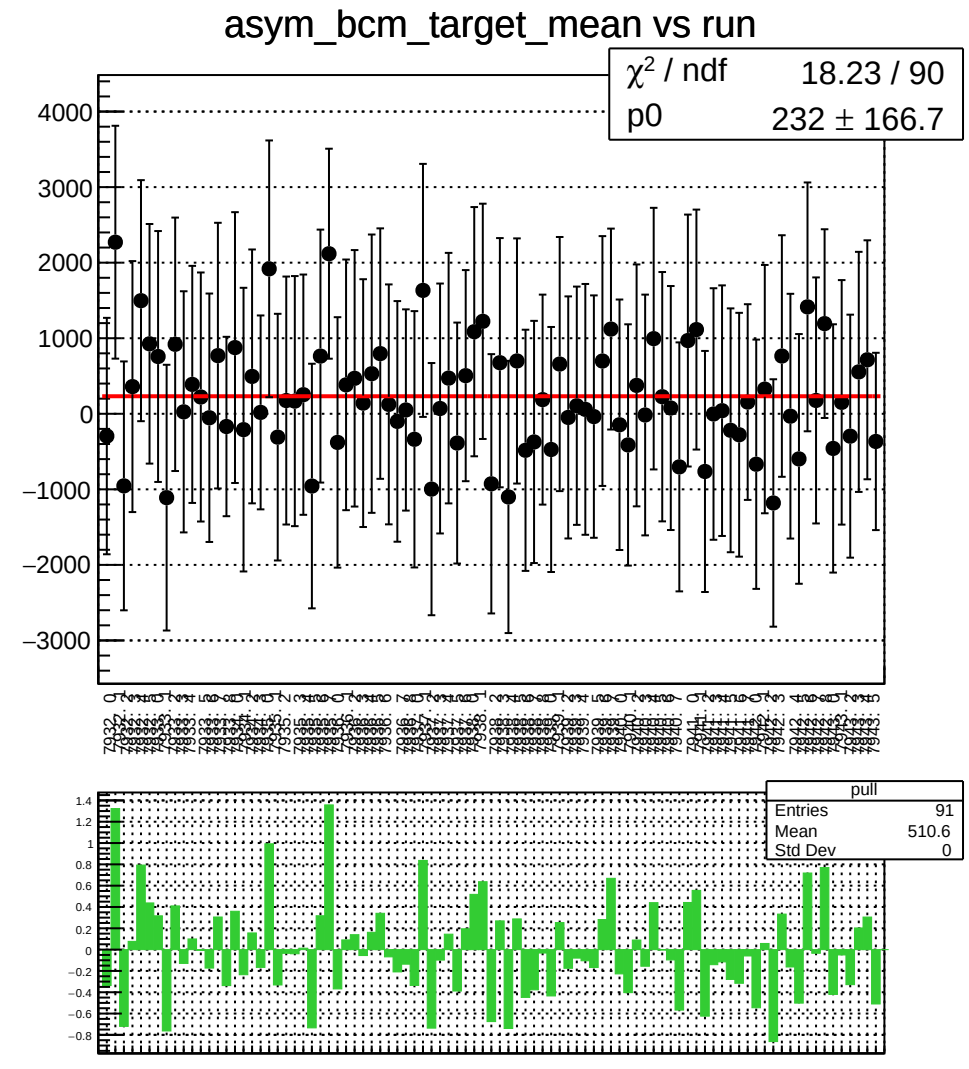

pull1D
Entries 91
Mean −0.009308
Std Dev 3.185

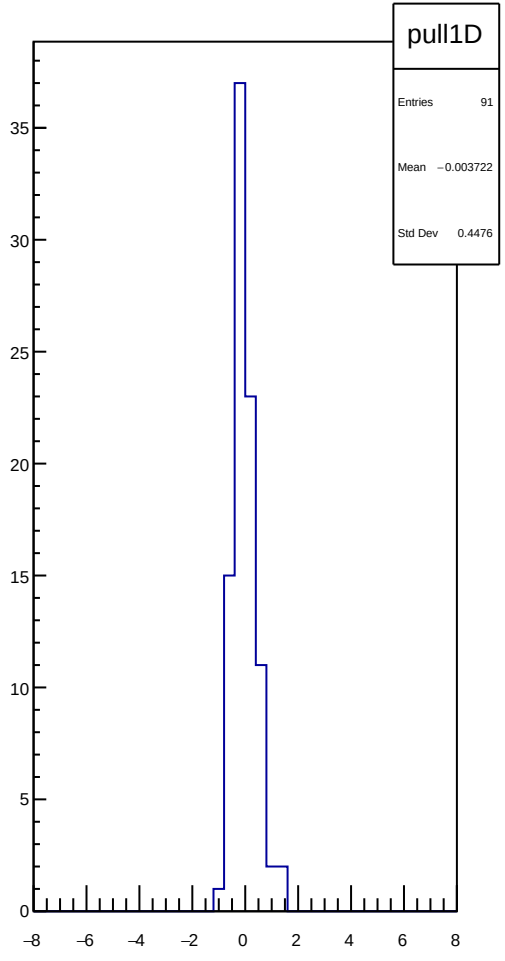

yield_bpm2i01WS_rms vs run
χ² / ndf 1541 / 90
p0 285.8 ± 0.2163
310
300
290
280
270
260

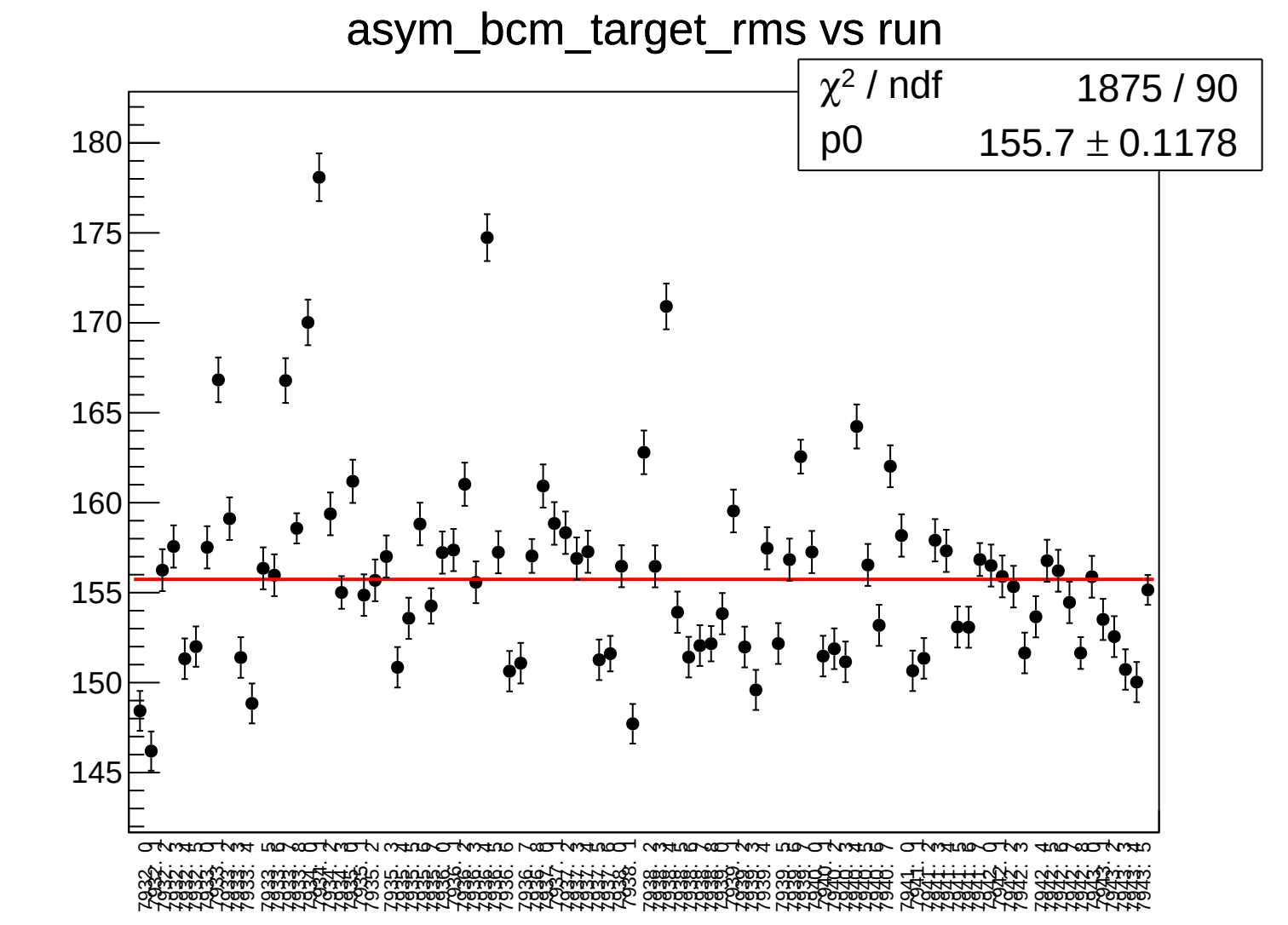

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.171e+04 / 90
p0 1.892e+05 ± 0.3414
189.26
189.24
189.22
189.2
189.18
189.16
189.14
189.12
189.1
189.08
189.06
pull
Entries 91
Mean 3601
Std Dev 0
30
20
10
0
−10
−20

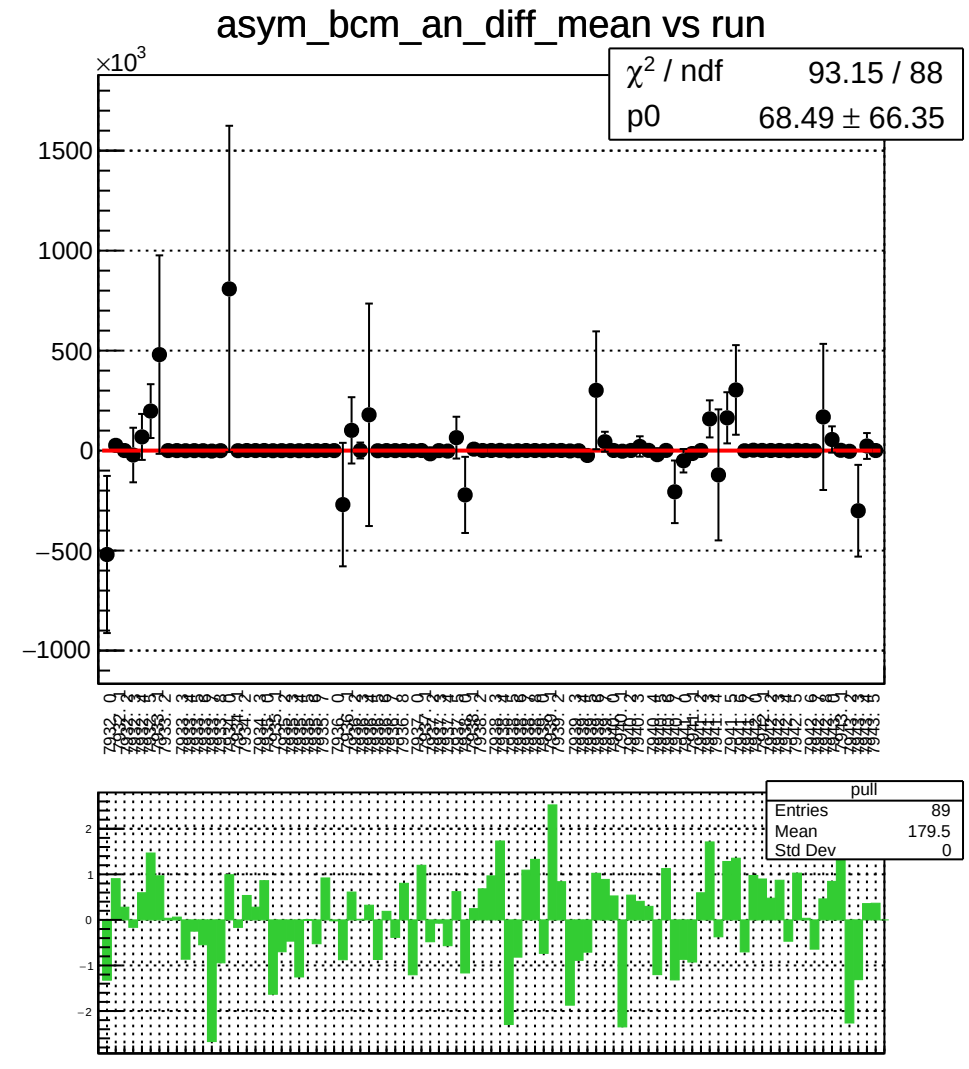

pull1D
Entries 91
Mean −0.5384
Std Dev 4.516
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

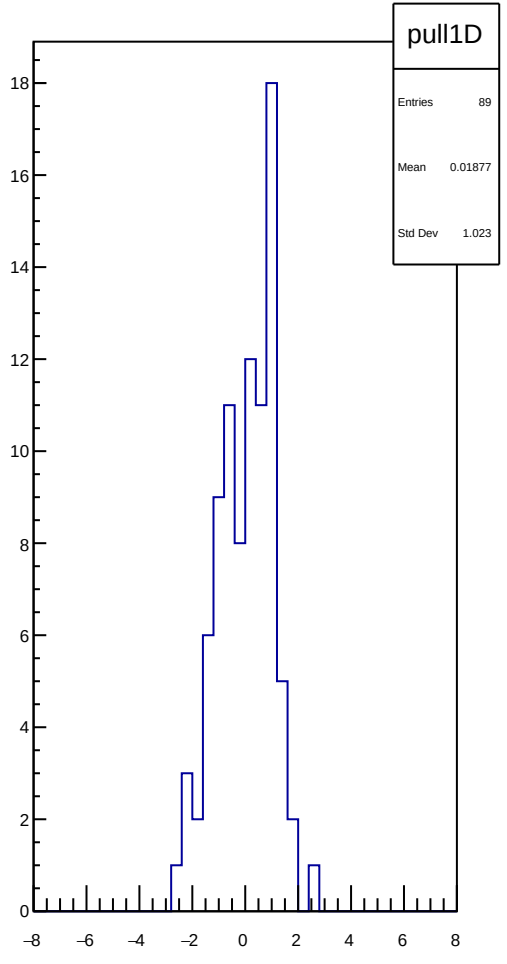

yield_bpm2i02WS_rms vs run
χ² / ndf 1530 / 90
p0 319.1 ± 0.2414
340
330
320
310
300

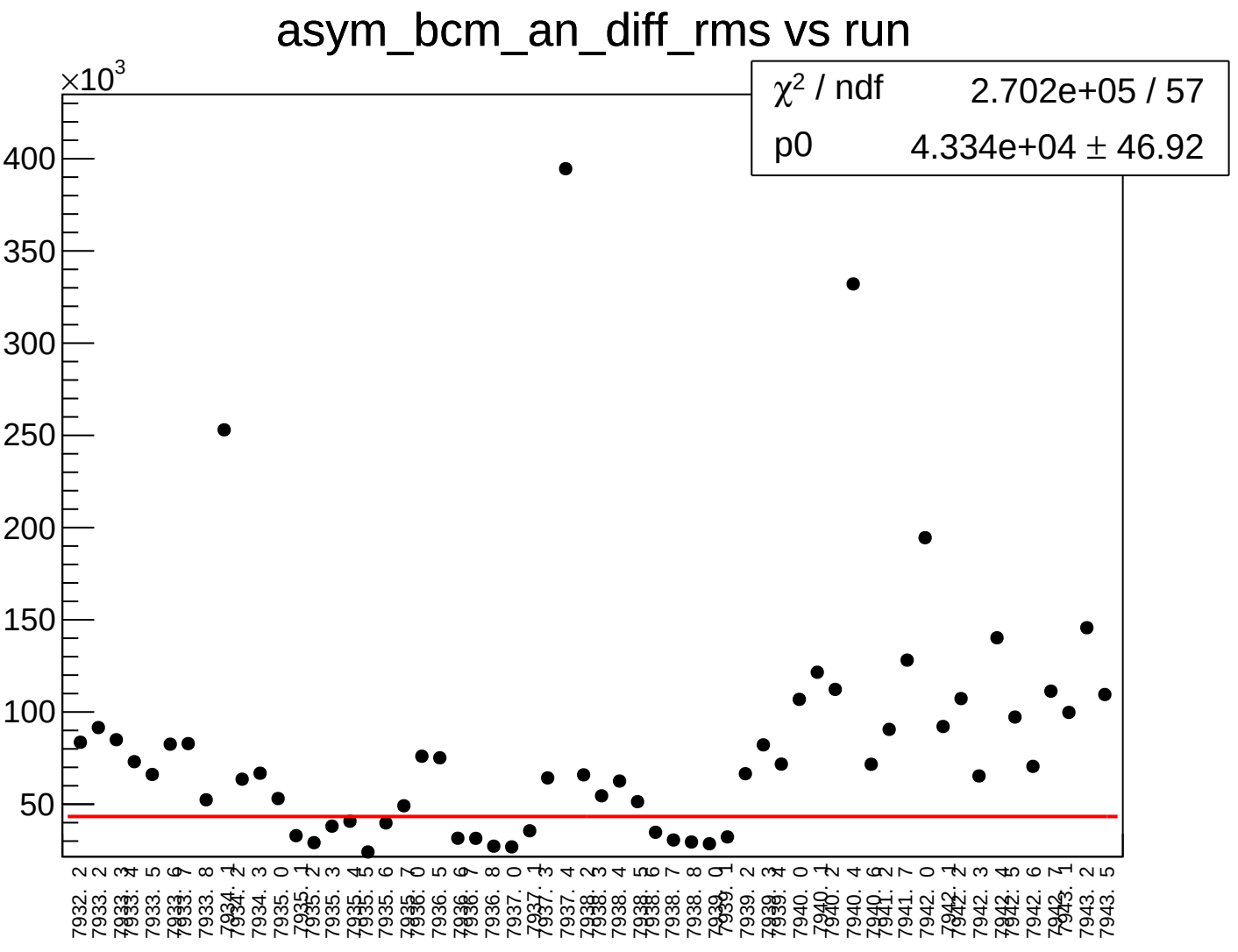

asym_bcm_target_mean vs run
χ² / ndf 18.23 / 90
p0 232 ± 166.7
pull
Entries 91
Mean 510.6
Std Dev 0

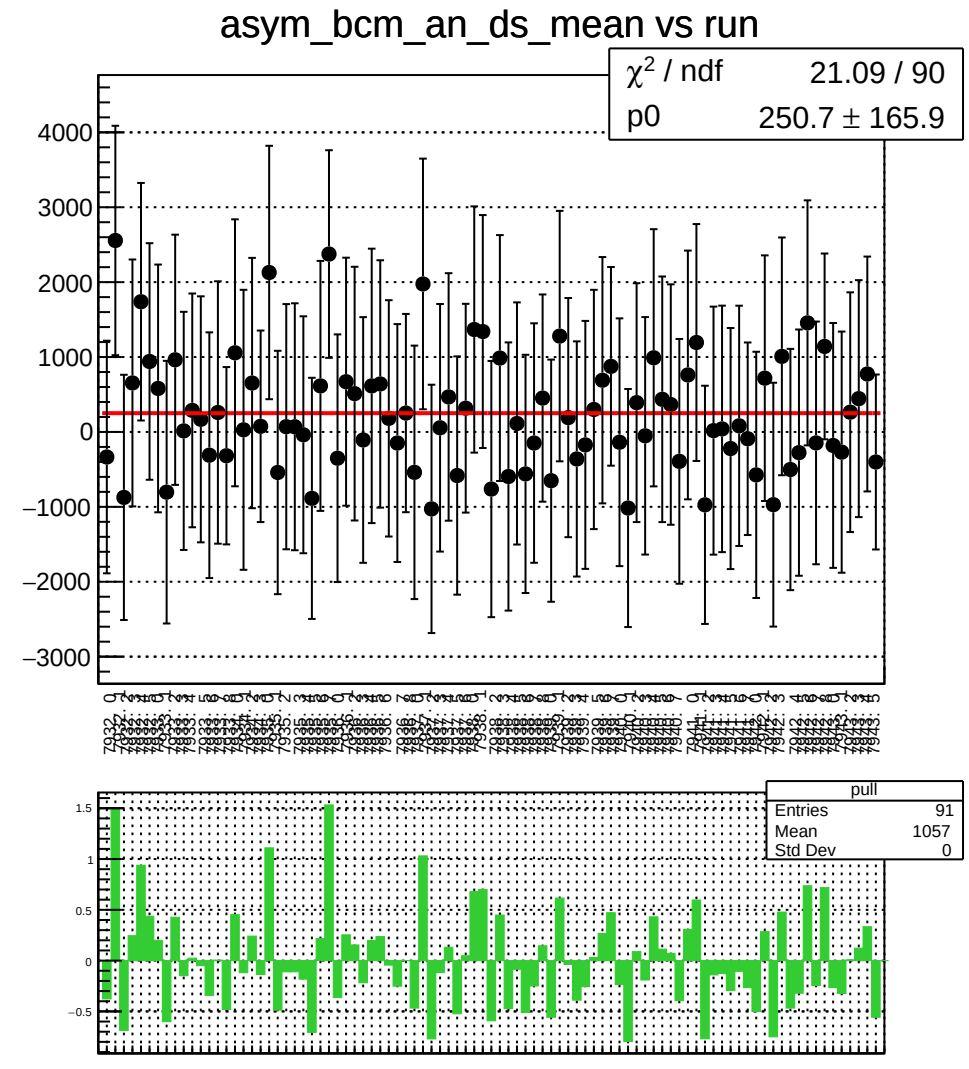

pull1D
Entries 91
Mean −0.003722
Std Dev 0.4476

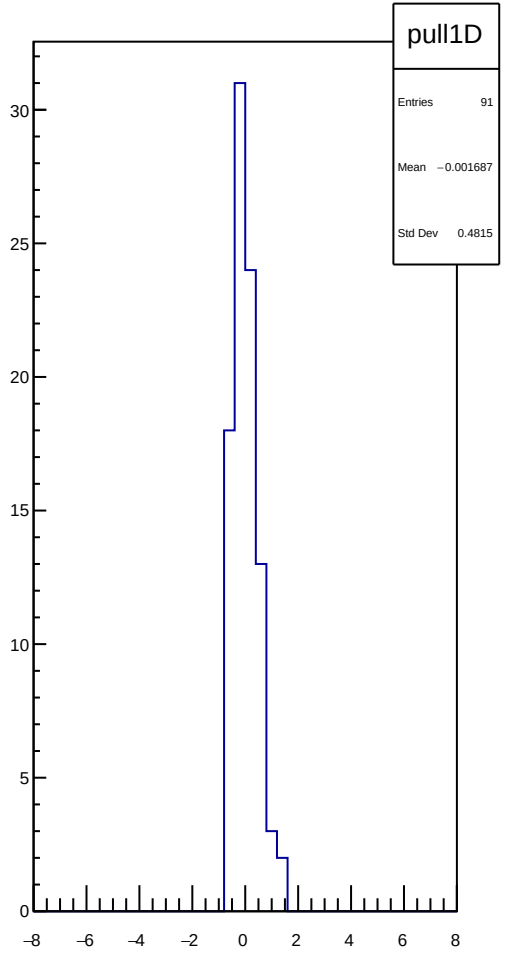

asym_bcm_target_rms vs run
χ^2 / ndf 1875 / 90
p0 155.7 ± 0.1178
180
175
170
165
160
155
150
145

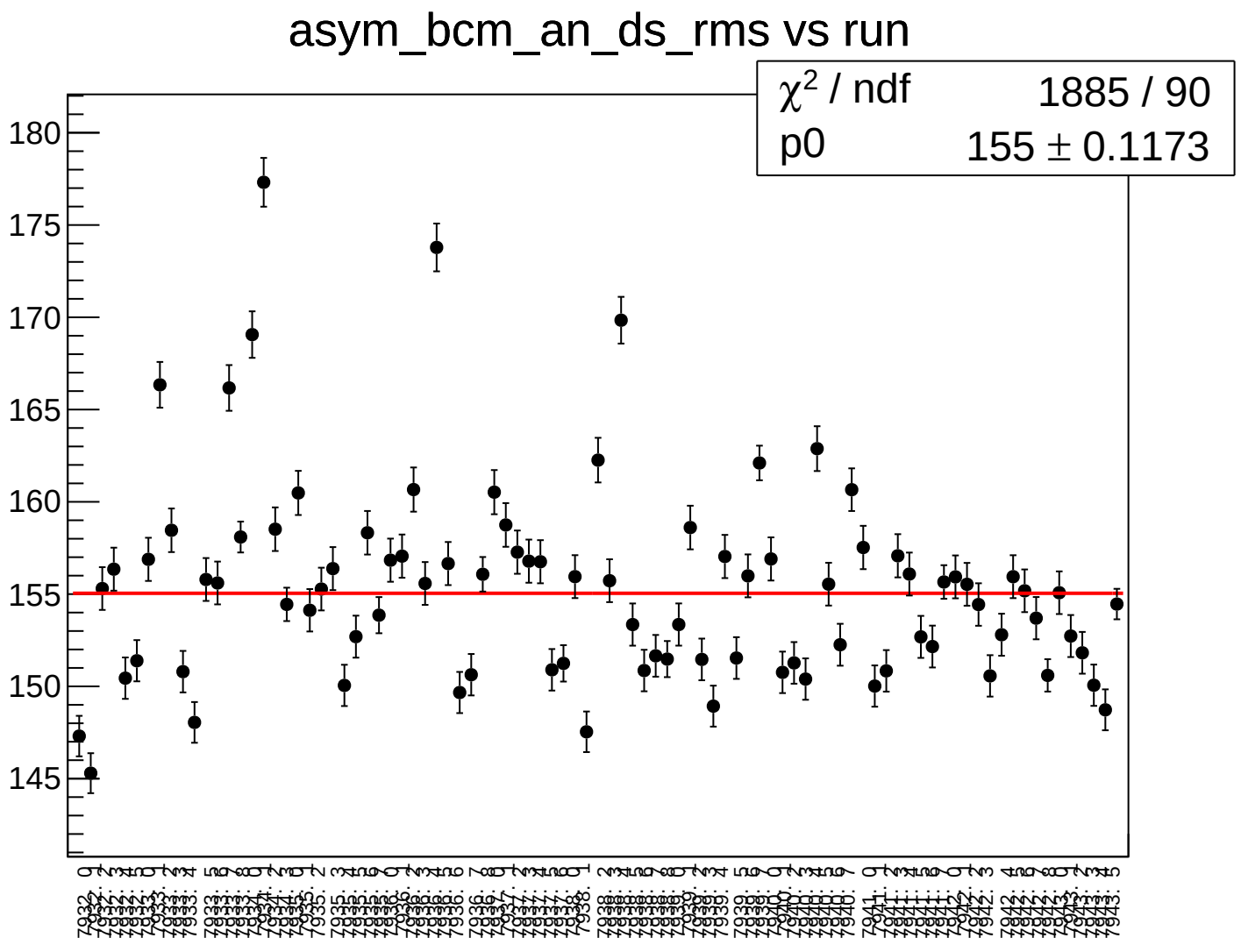

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 93.15 / 88
p0 68.49 ± 66.35
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 179.5
Std Dev 0
2
1
0
−1
−2

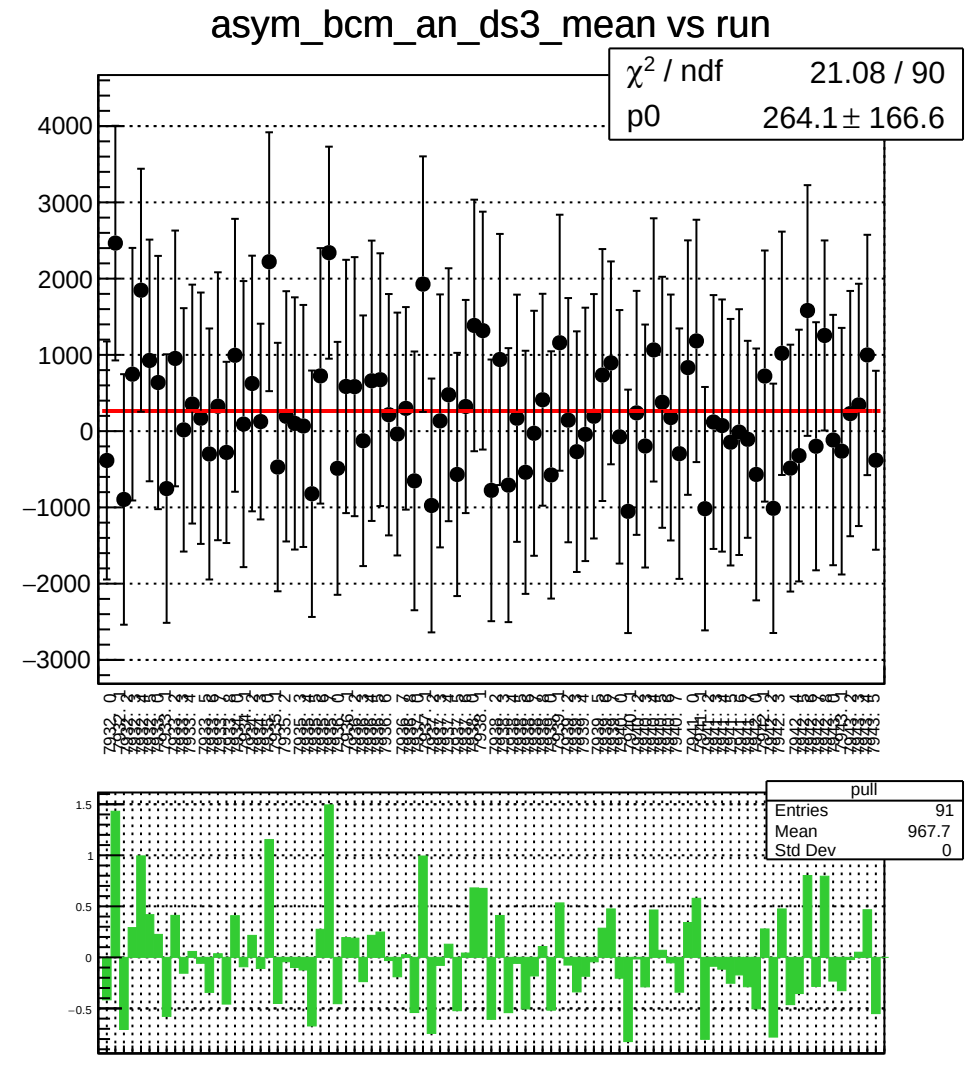

pull1D
Entries 89
Mean 0.01877
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

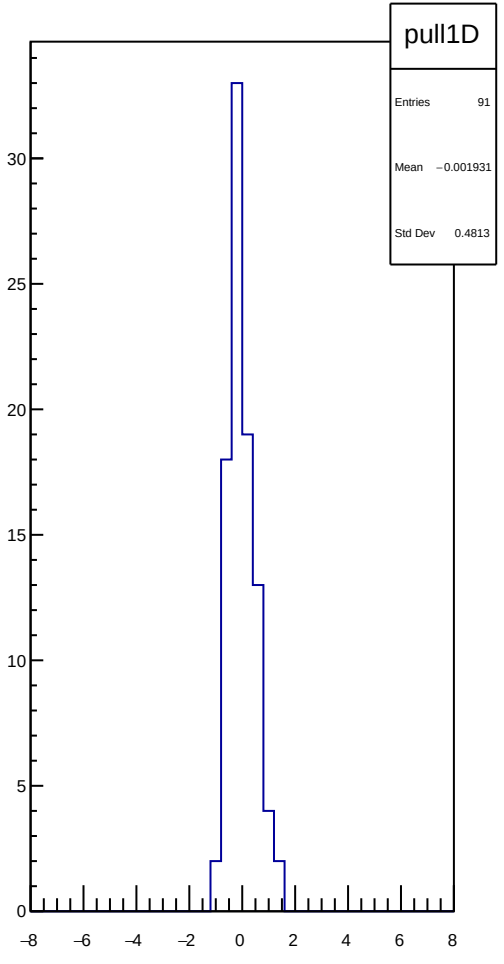

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 2.702e+05 / 57
p0 4.334e+04 ± 46.92
400
350
300
250
200
150
100
50

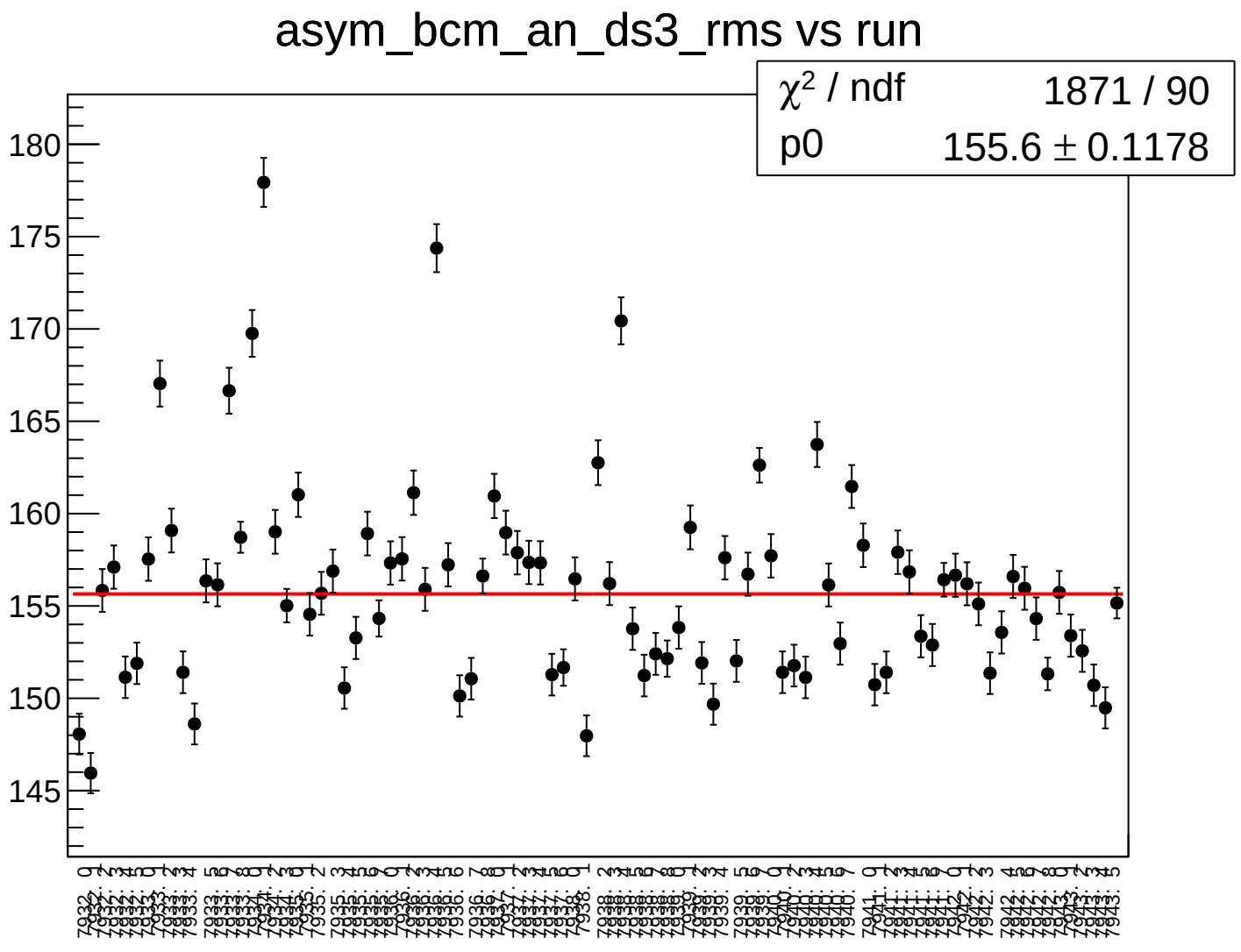

asym_bcm_an_ds_mean vs run
χ² / ndf 21.09 / 90
p0 250.7 ± 165.9
pull
Entries 91
Mean 1057
Std Dev 0

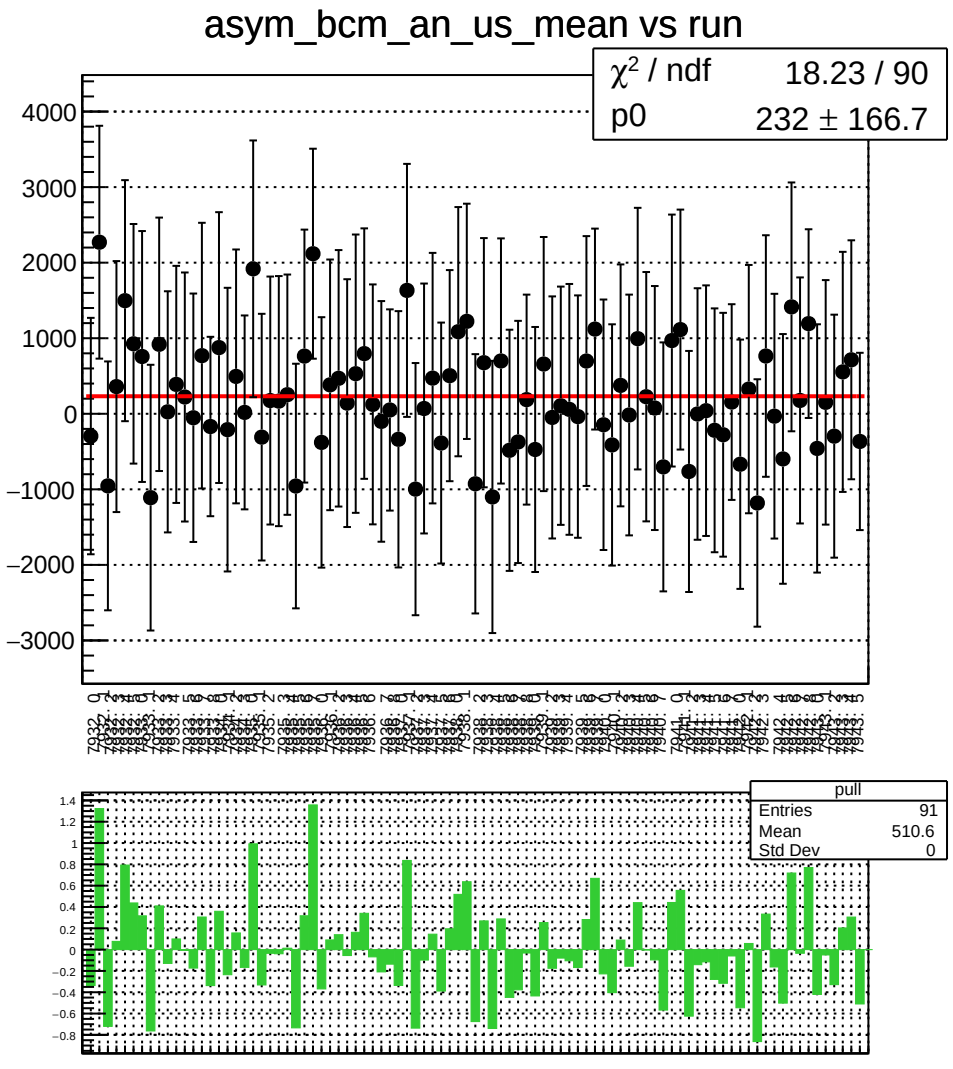

pull1D
Entries 91
Mean −0.001687
Std Dev 0.4815

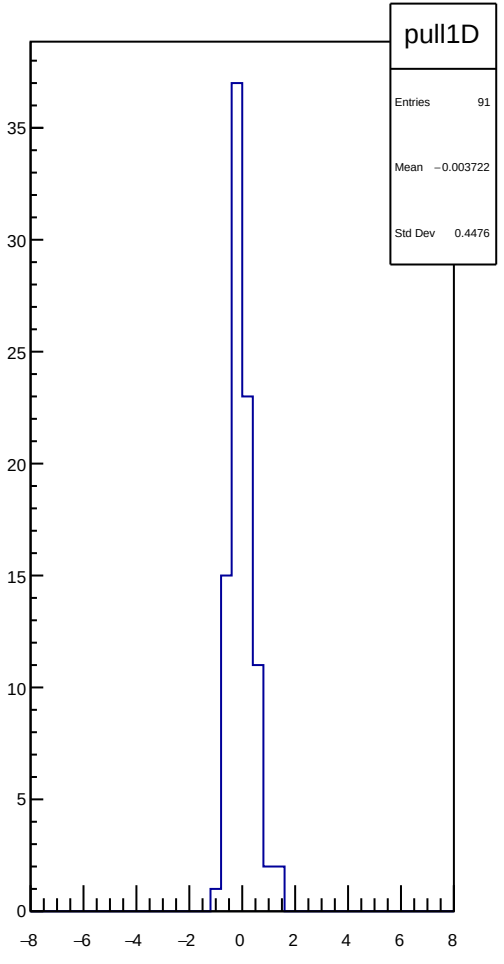

asym_bcm_an_ds_rms vs run
χ² / ndf 1885 / 90
p0 155 ± 0.1173
180
175
170
165
160
155
150
145

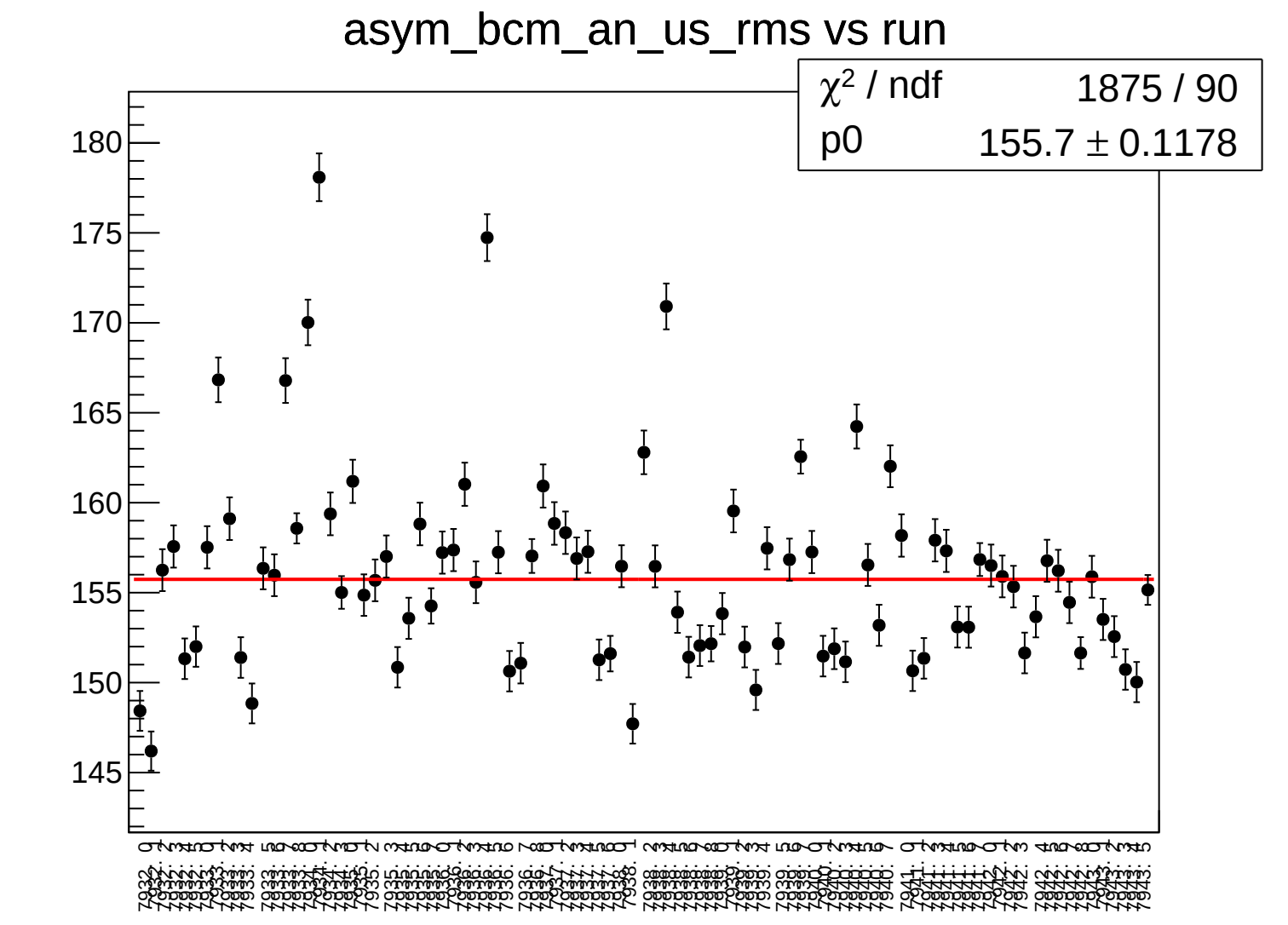

asym_bcm_an_ds3_mean vs run
χ² / ndf 21.08 / 90
p0 264.1 ± 166.6
pull
Entries 91
Mean 967.7
Std Dev 0

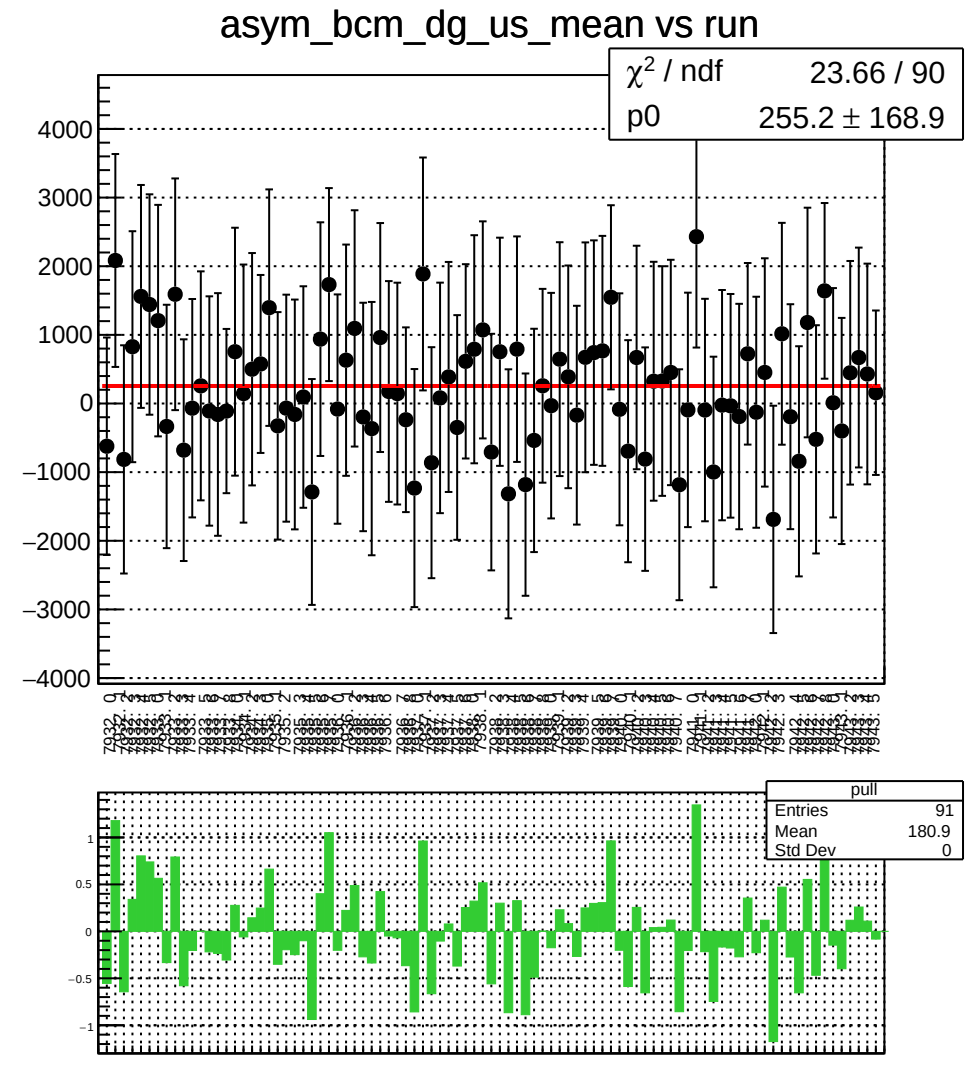

pull1D
Entries 91
Mean −0.001931
Std Dev 0.4813

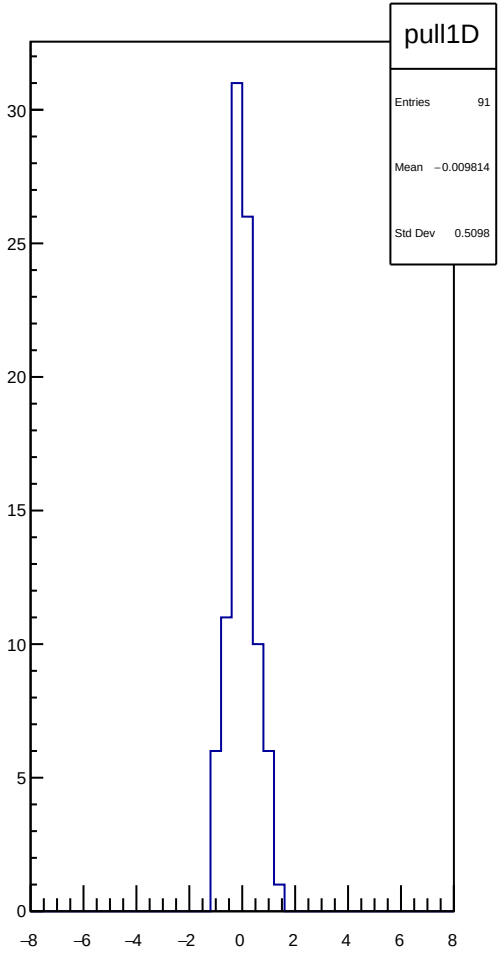

asym_bcm_an_ds3_rms vs run
χ² / ndf 1871 / 90
p0 155.6 ± 0.1178
180
175
170
165
160
155
150
145

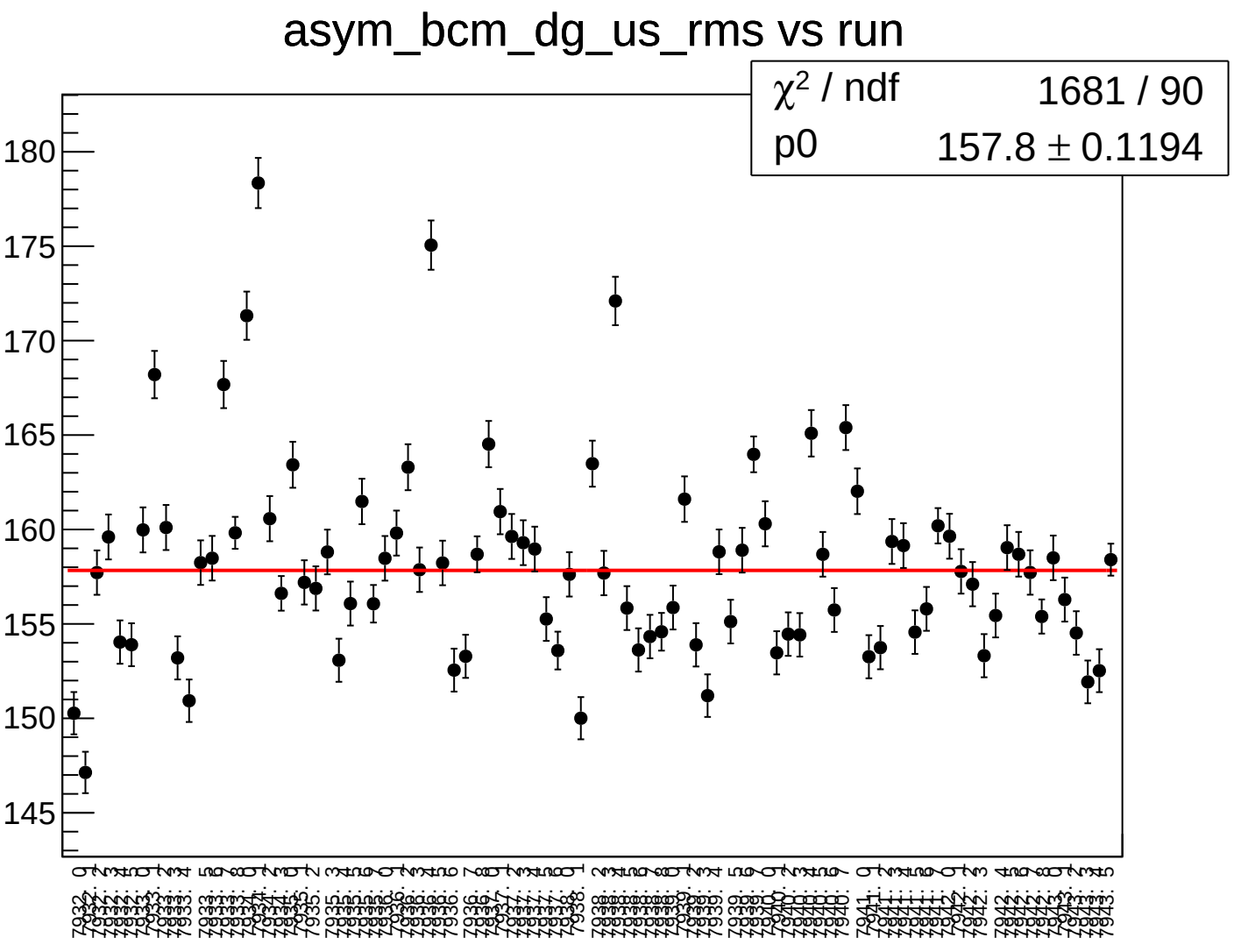

asym_bcm_an_us_mean vs run
χ² / ndf 18.23 / 90
p0 232 ± 166.7
pull
Entries 91
Mean 510.6
Std Dev 0

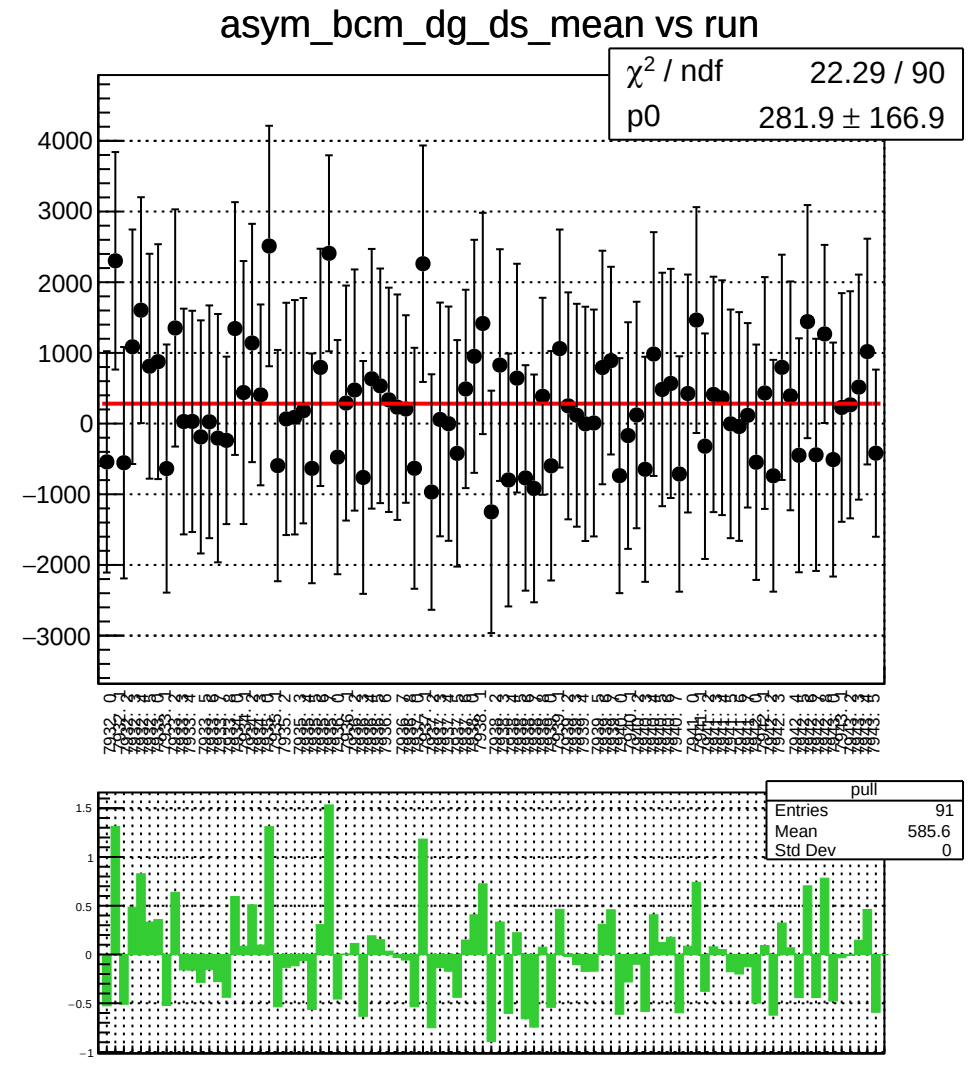

pull1D
Entries 91
Mean −0.003722
Std Dev 0.4476

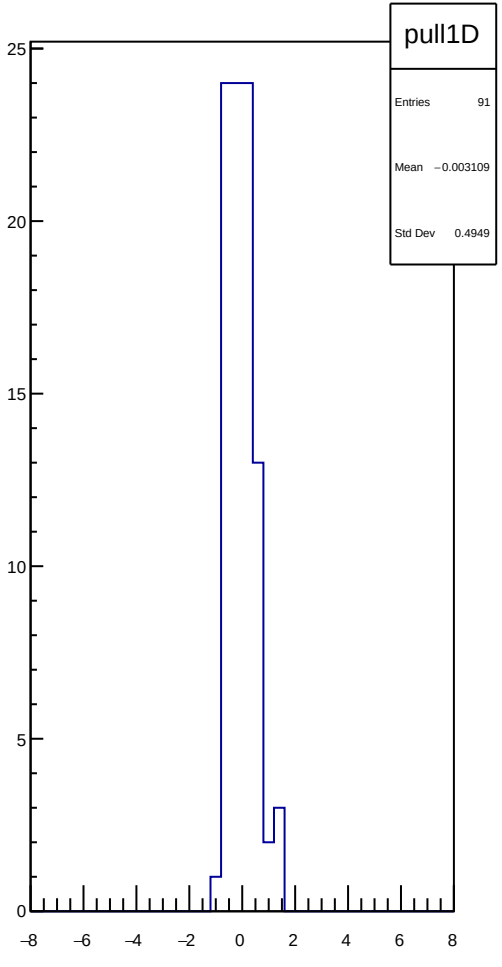

asym_bcm_an_us_rms vs run
χ² / ndf 1875 / 90
p0 155.7 ± 0.1178
180
175
170
165
160
155
150
145

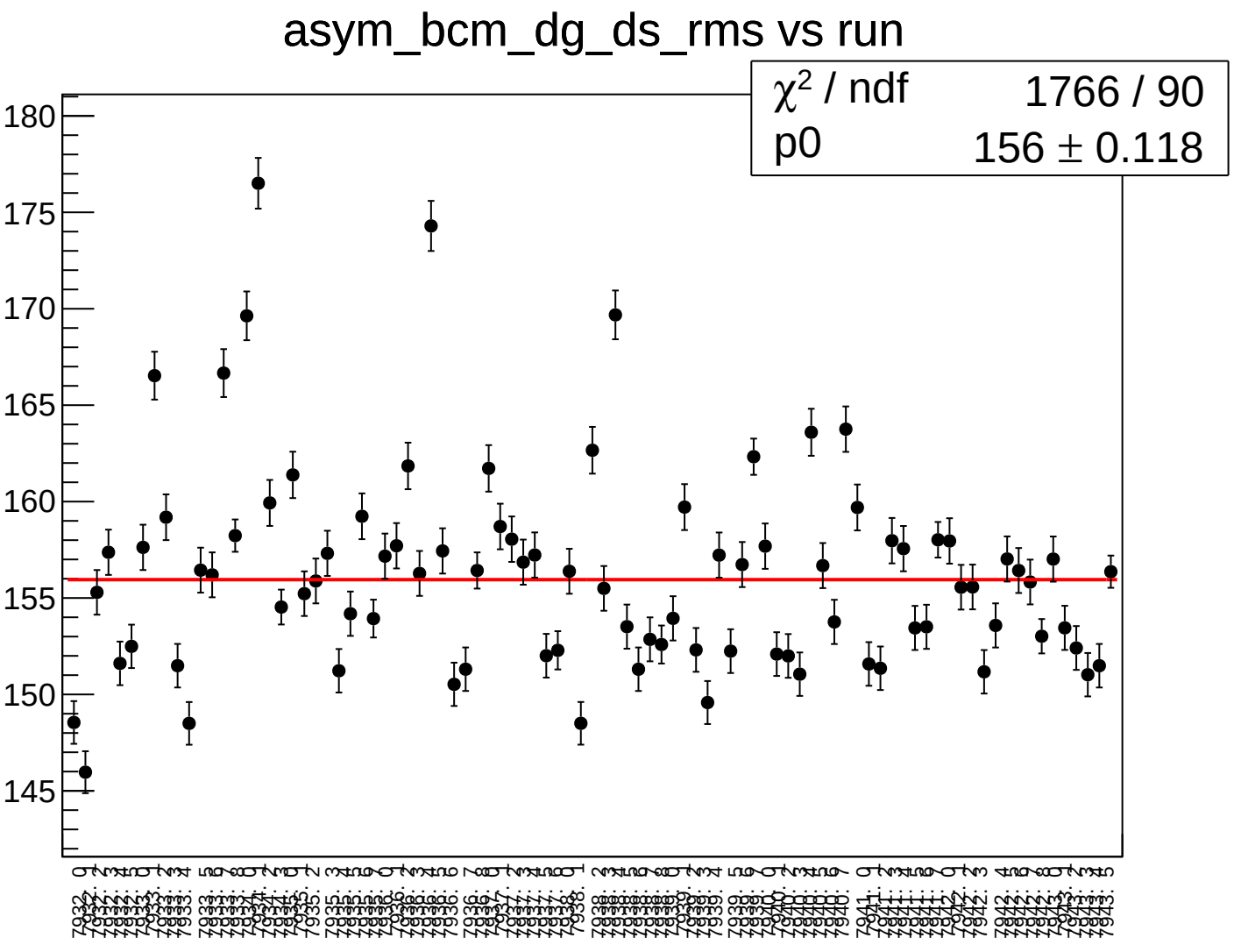

asym_bcm_dg_us_mean vs run
χ² / ndf 23.66 / 90
p0 255.2 ± 168.9
pull
Entries 91
Mean 180.9
Std Dev 0

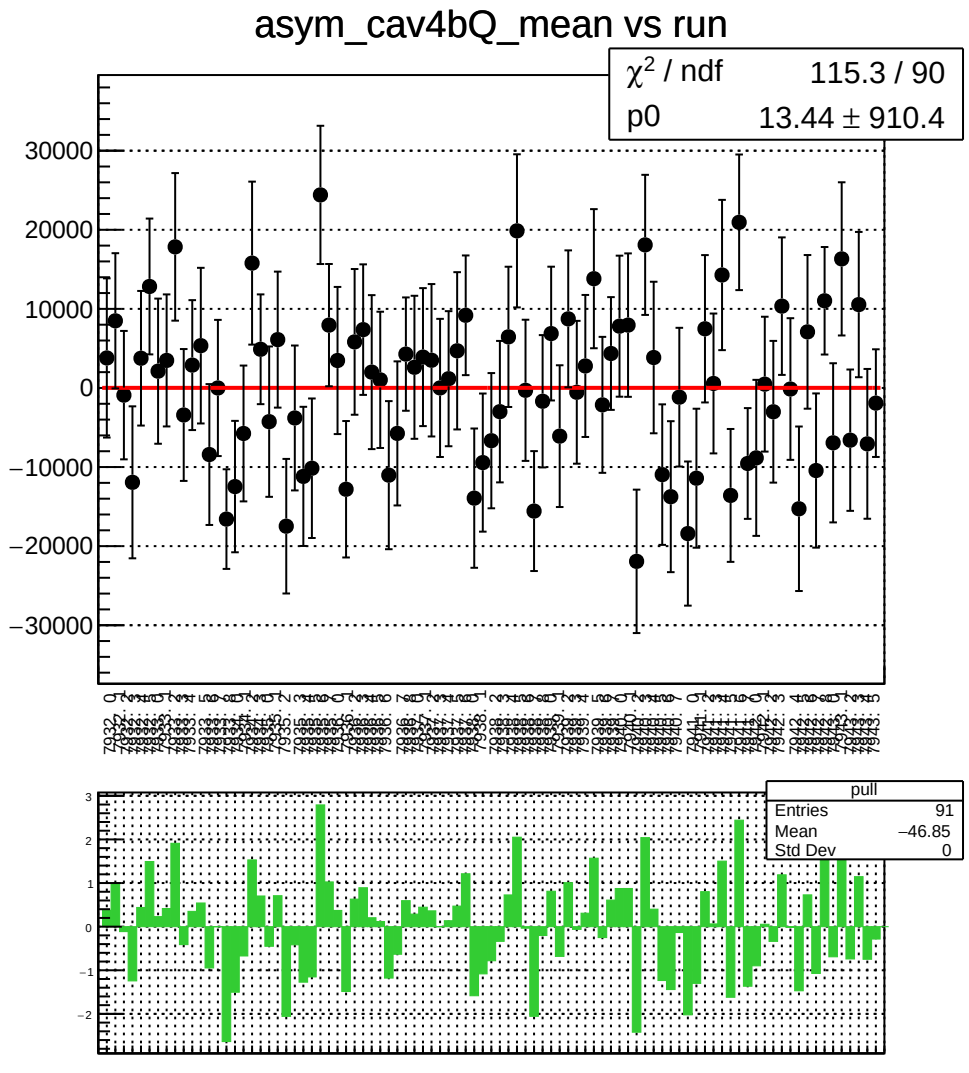

pull1D
Entries 91
Mean −0.009814
Std Dev 0.5098

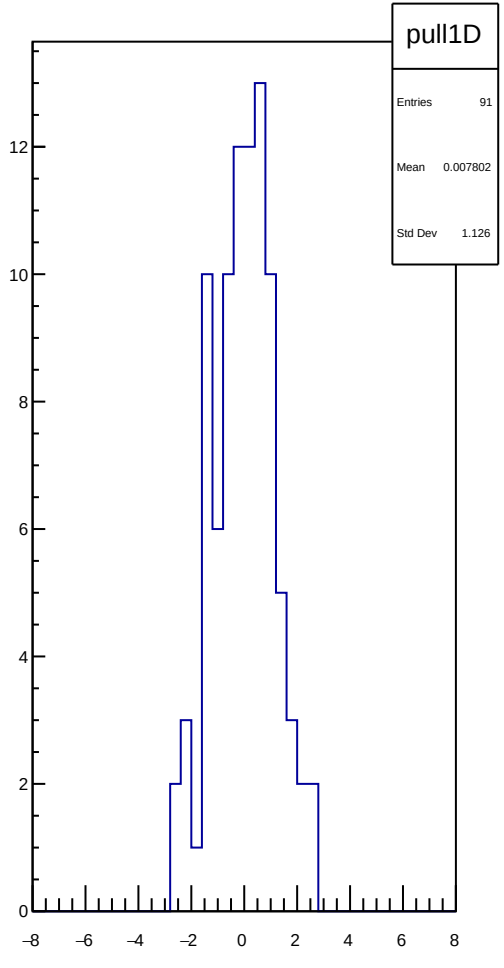

asym_bcm_dg_us_rms vs run
χ² / ndf 1681 / 90
p0 157.8 ± 0.1194
180
175
170
165
160
155
150
145

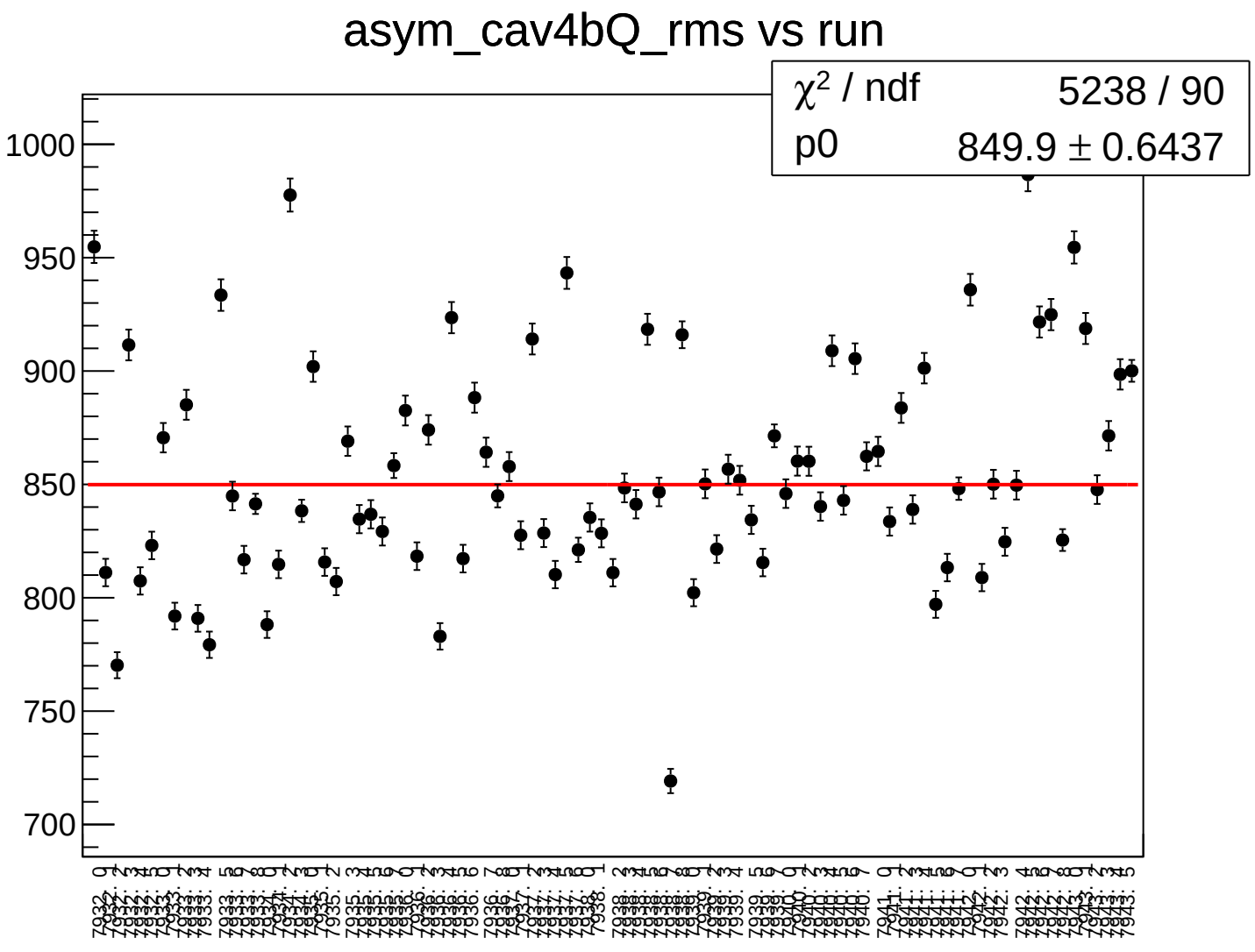

asym_bcm_dg_ds_mean vs run
χ² / ndf 22.29 / 90
p0 281.9 ± 166.9
pull
Entries 91
Mean 585.6
Std Dev 0

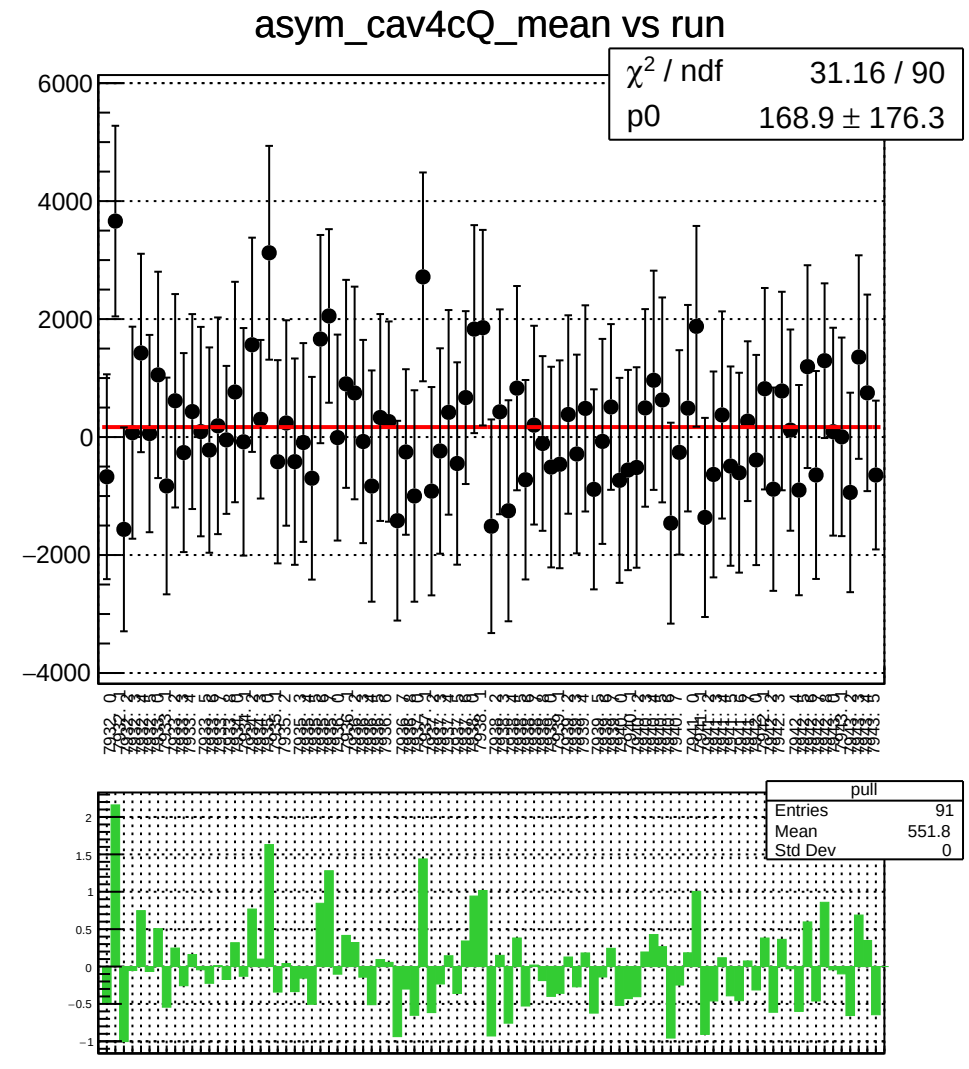

pull1D
Entries 91
Mean −0.003109
Std Dev 0.4949

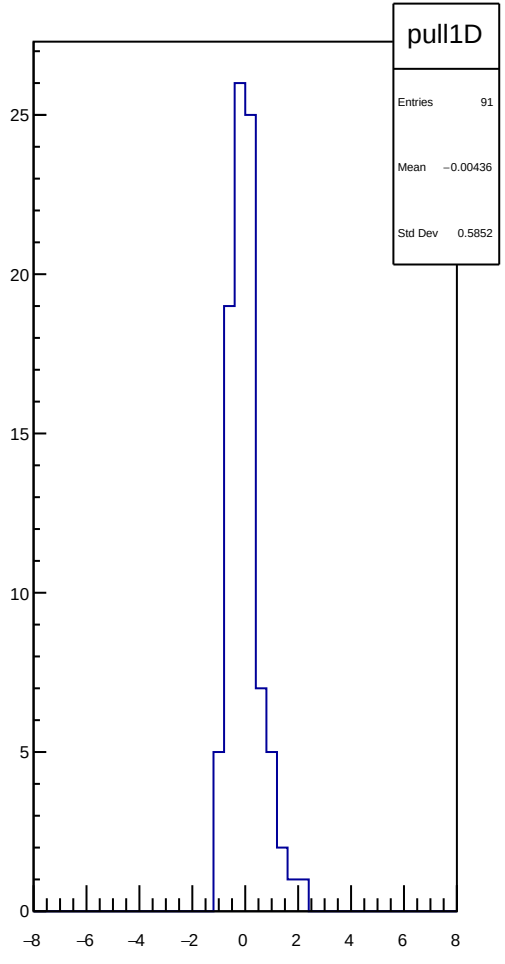

asym_bcm_dg_ds_rms vs run
χ² / ndf 1766 / 90
p0 156 ± 0.118
180
175
170
165
160
155
150
145

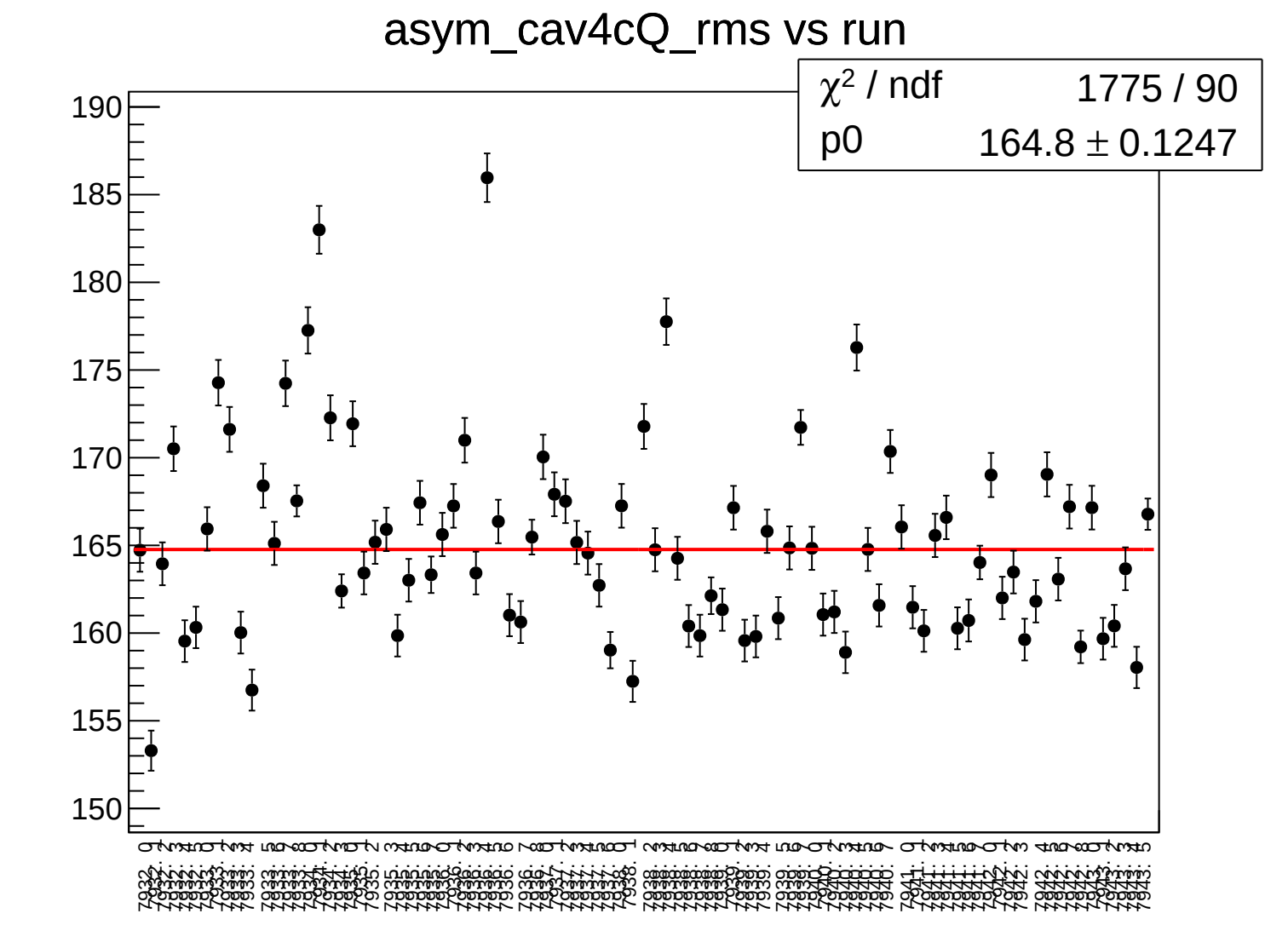

asym_cav4bQ_mean vs run
χ² / ndf 115.3 / 90
p0 13.44 ± 910.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −46.85
Std Dev 0
3
2
1
0
−1
−2

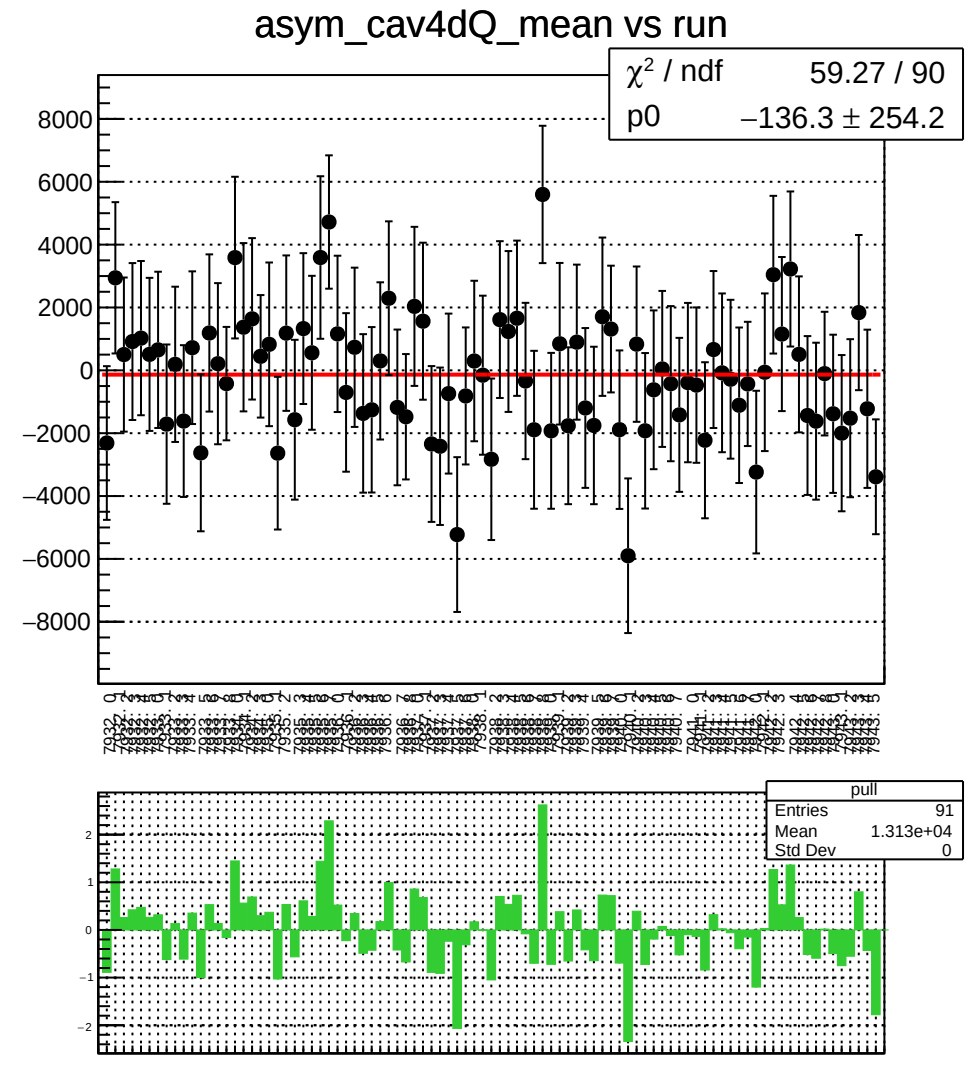

pull1D
Entries 91
Mean 0.007802
Std Dev 1.126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

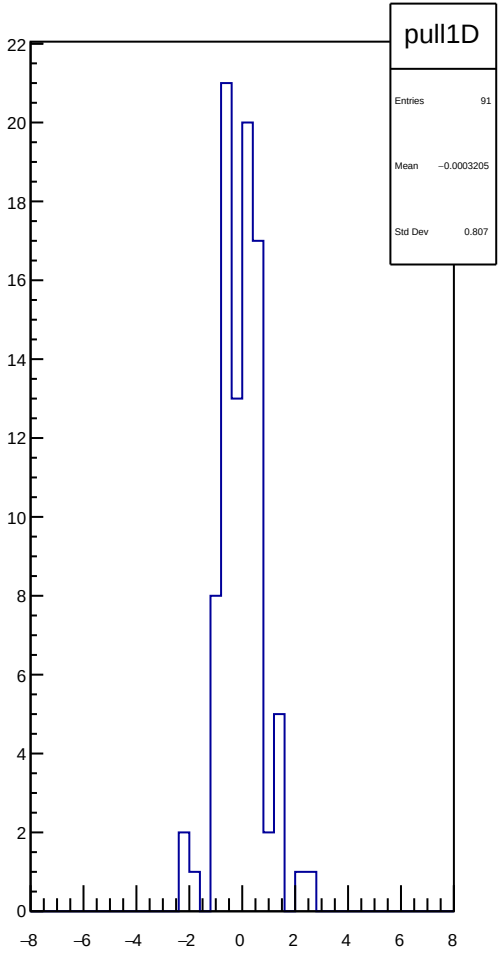

asym_cav4bQ_rms vs run
χ² / ndf 5238 / 90
p0 849.9 ± 0.6437
1000
950
900
850
800
750
700

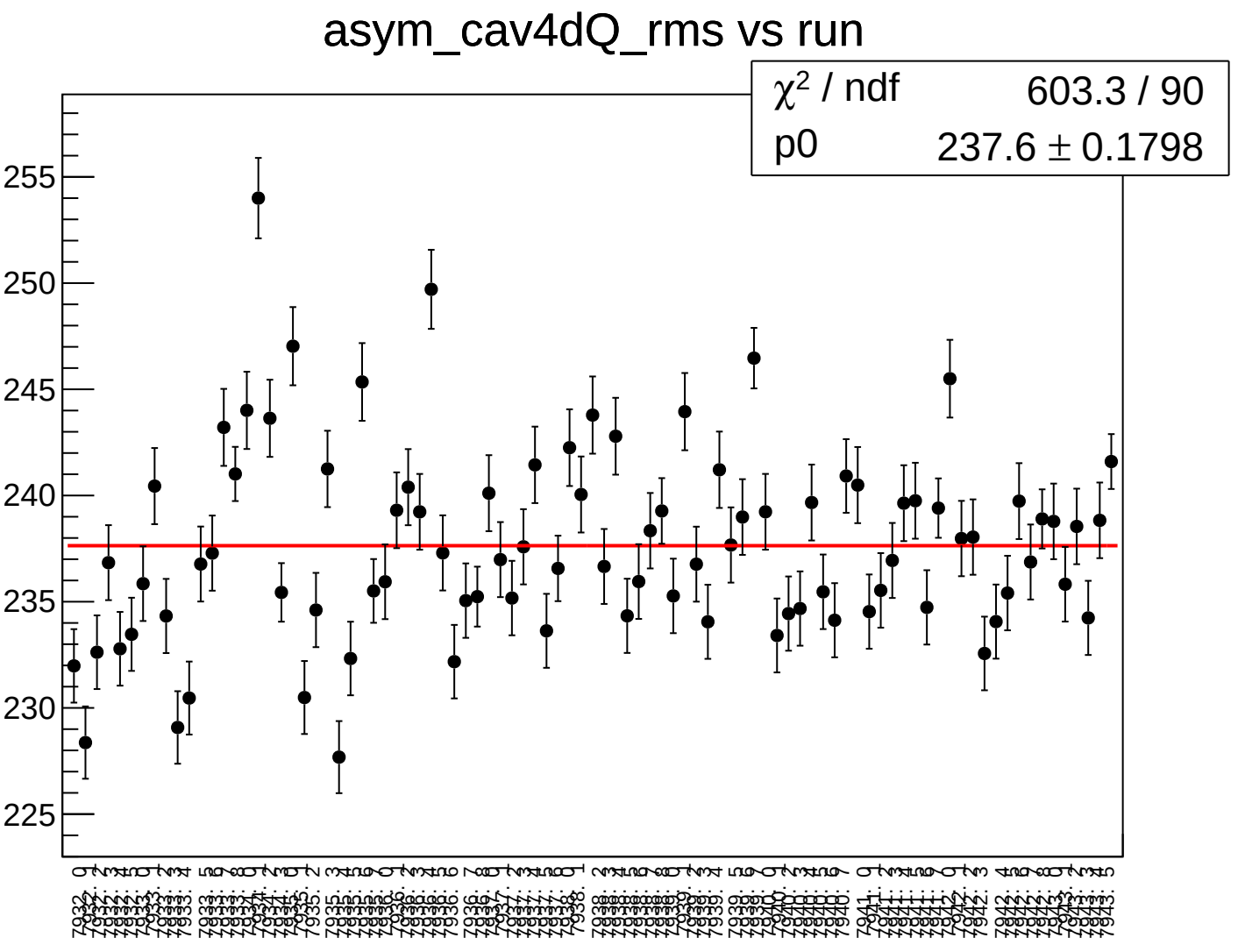

asym_cav4cQ_mean vs run
χ² / ndf 31.16 / 90
p0 168.9 ± 176.3
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 551.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

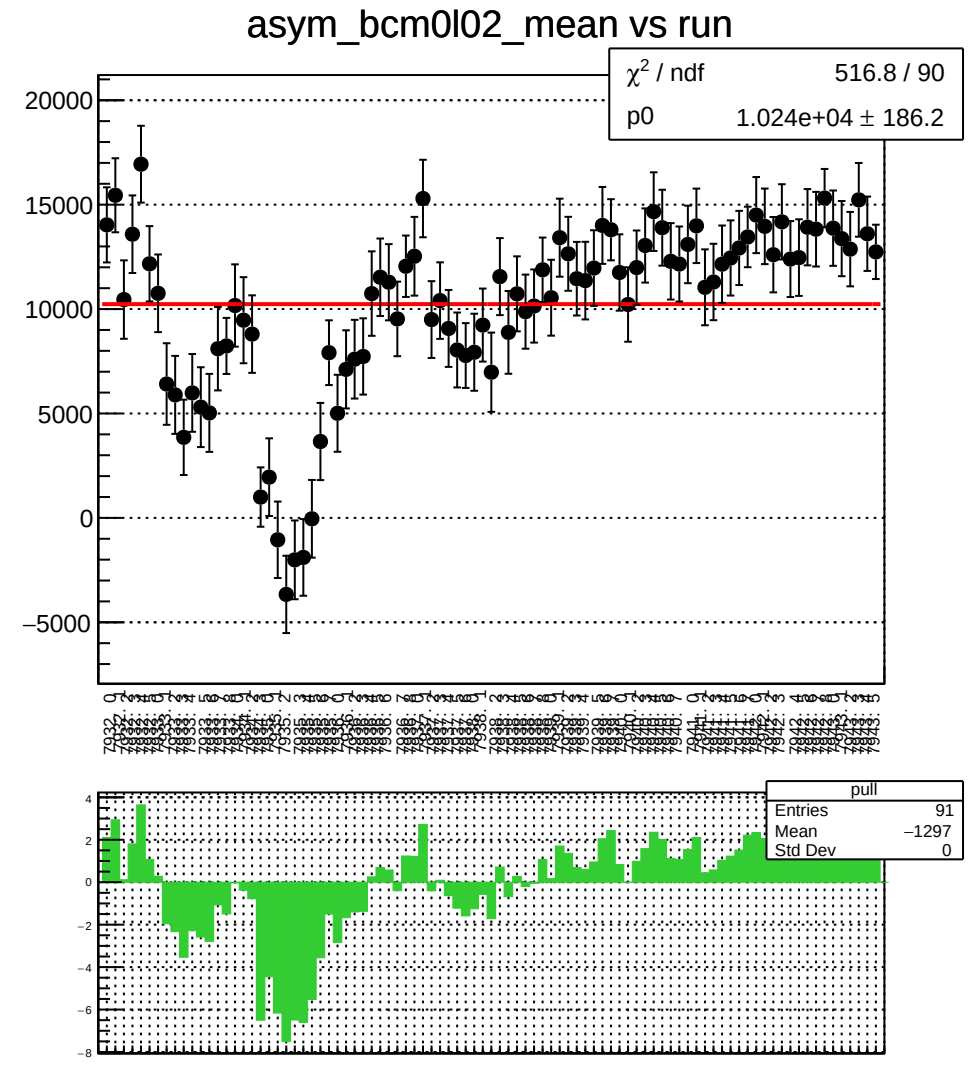

pull1D
Entries 91
Mean −0.00436
Std Dev 0.5852
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

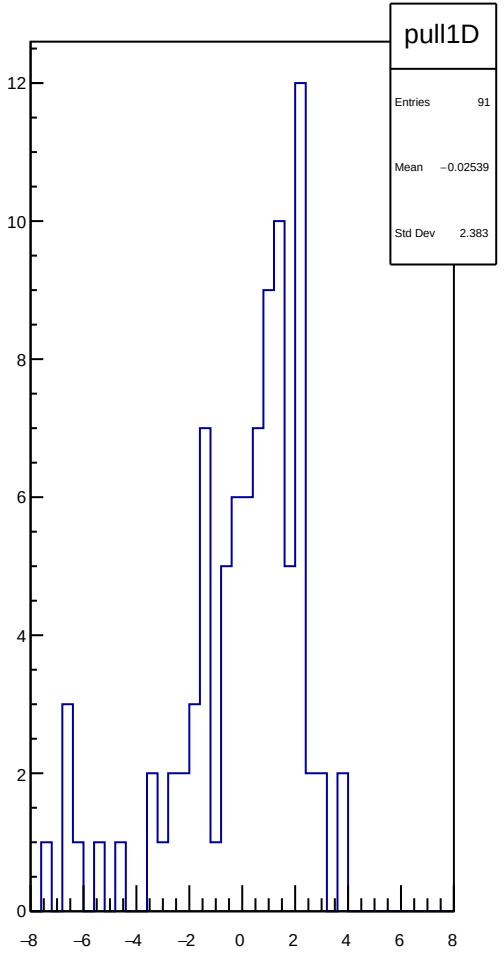

asym_cav4cQ_rms vs run
χ² / ndf 1775 / 90
p0 164.8 ± 0.1247
190
185
180
175
170
165
160
155
150

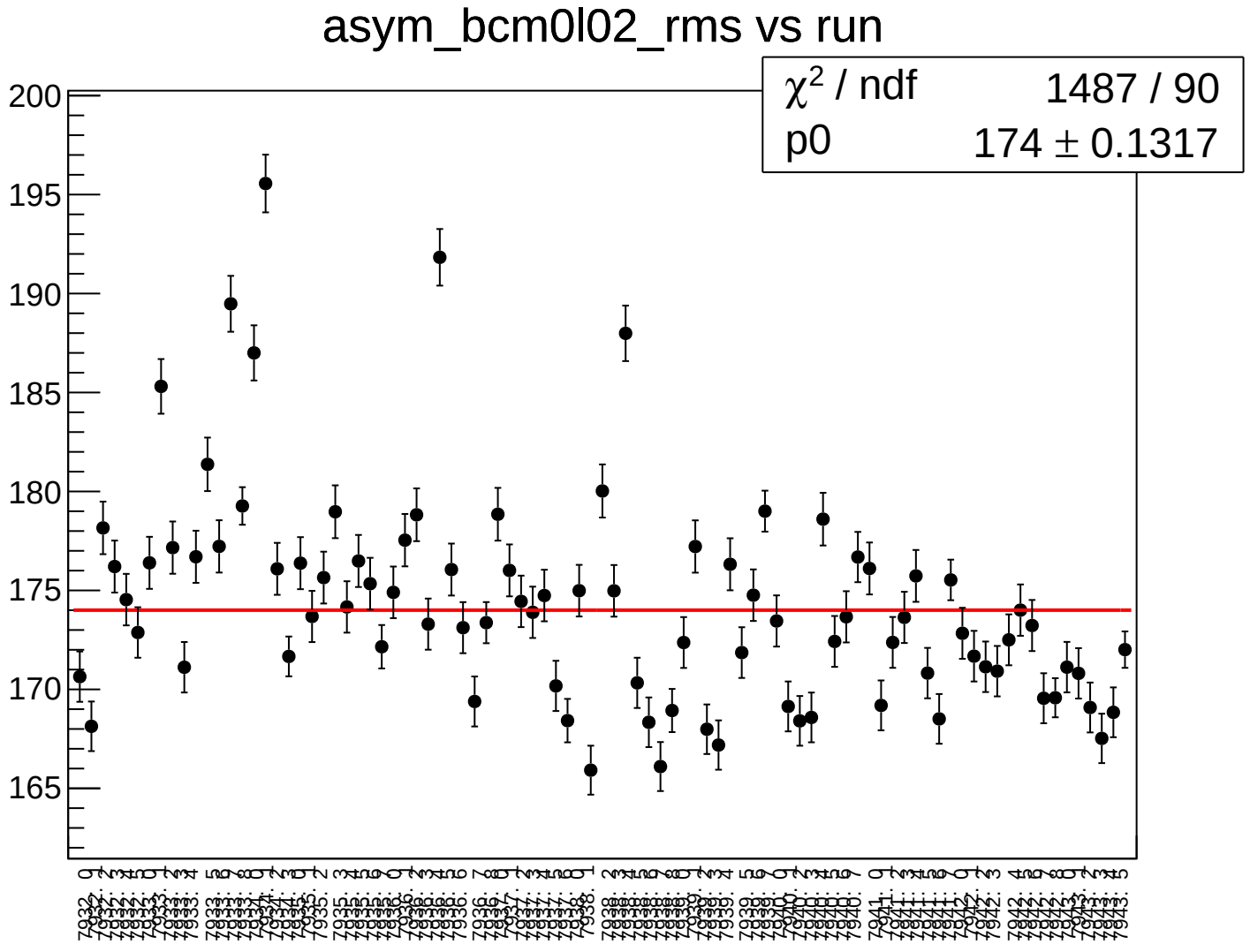

asym_cav4dQ_mean vs run
χ² / ndf 59.27 / 90
p0 −136.3 ± 254.2
pull
Entries 91
Mean 1.313e+04
Std Dev 0

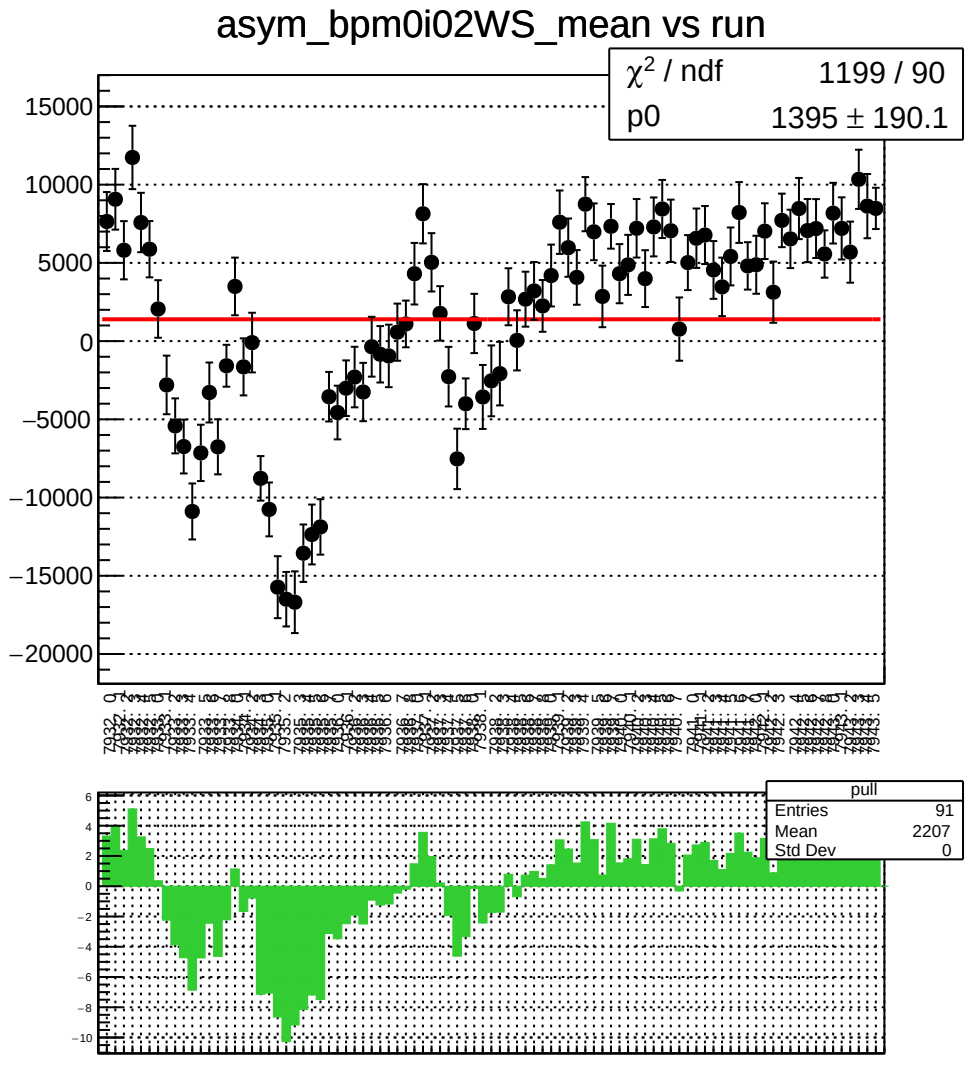

pull1D
Entries 91
Mean −0.0003205
Std Dev 0.807

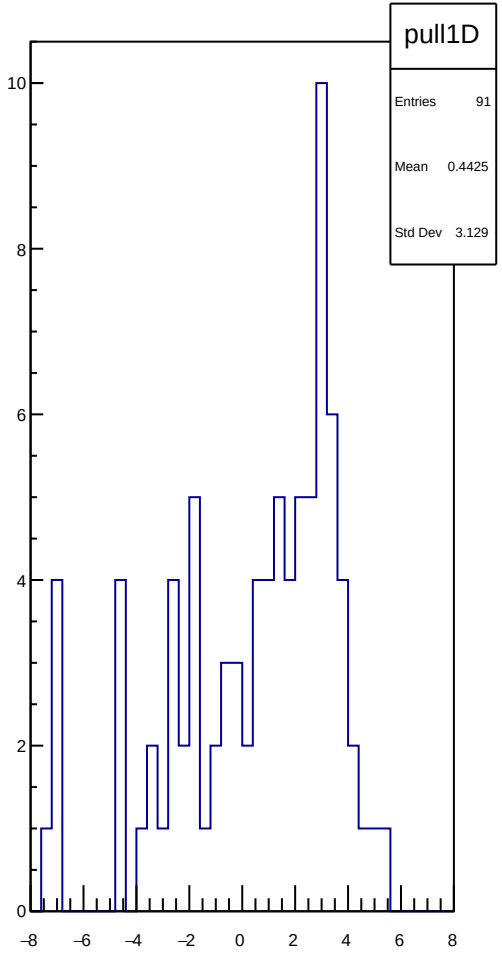

asym_cav4dQ_rms vs run
χ^2 / ndf 603.3 / 90
p0 237.6 ± 0.1798
255
250
245
240
235
230
225

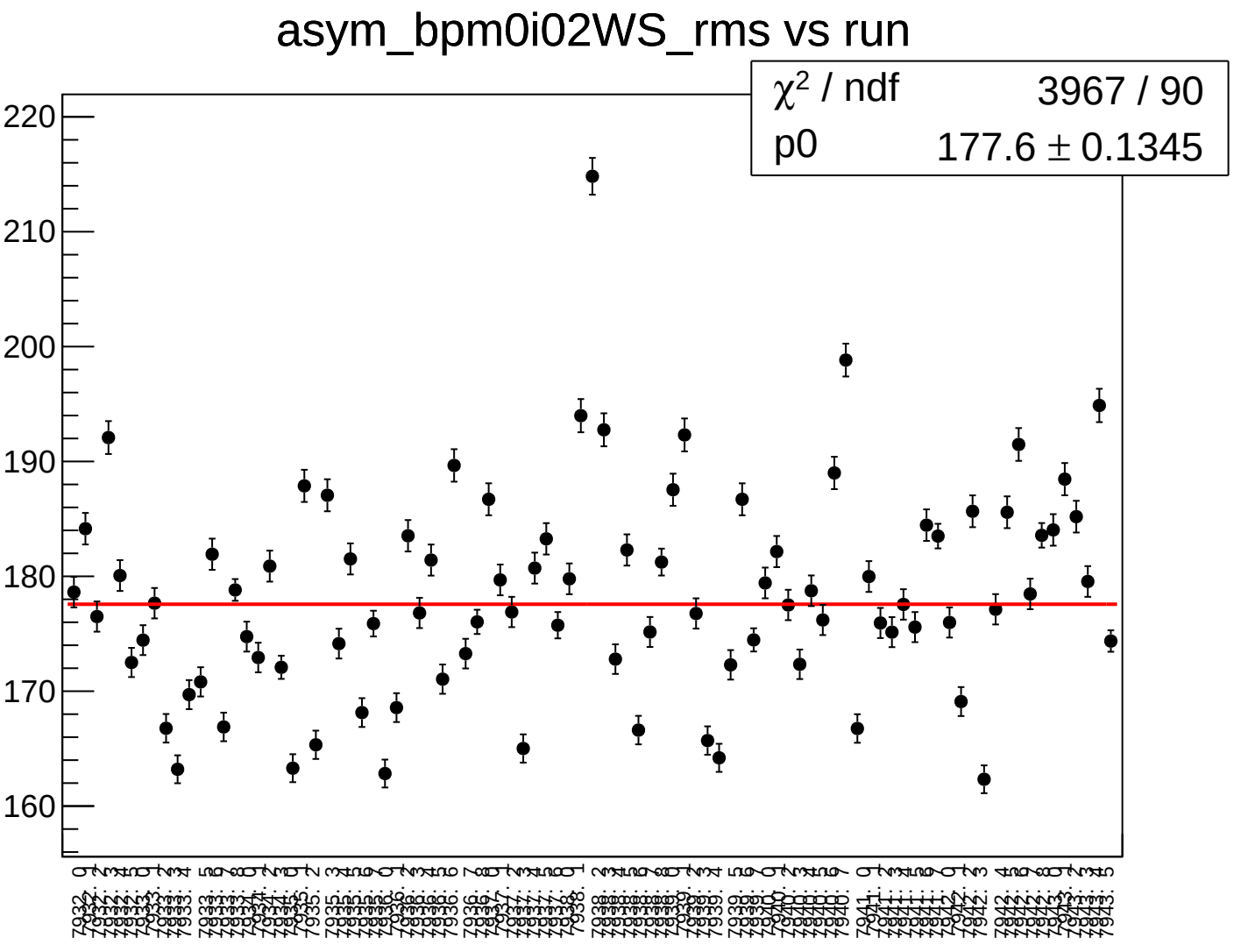

asym_bcm0l02_mean vs run
χ² / ndf 516.8 / 90
p0 1.024e+04 ± 186.2
pull
Entries 91
Mean −1297
Std Dev 0

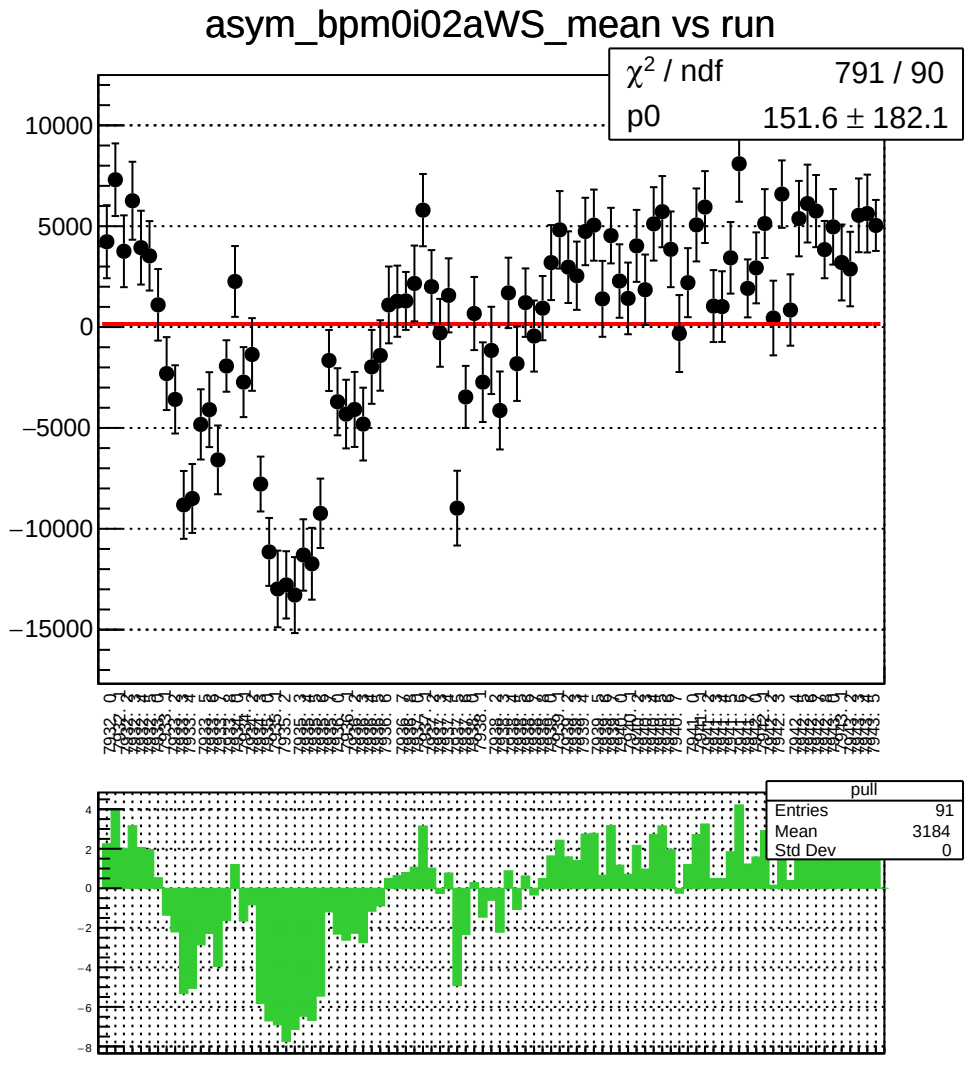

pull1D
Entries 91
Mean −0.02539
Std Dev 2.383

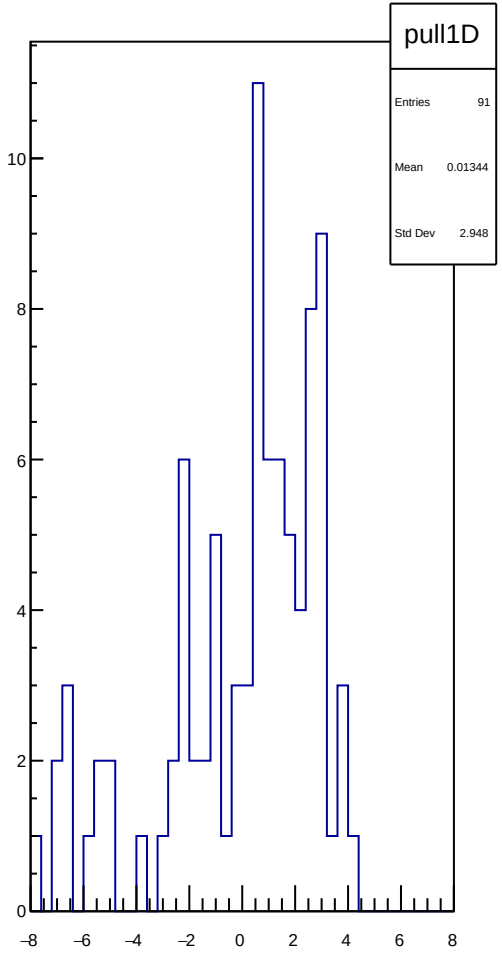

asym_bcm0l02_rms vs run
χ² / ndf 1487 / 90
p0 174 ± 0.1317
200
195
190
185
180
175
170
165

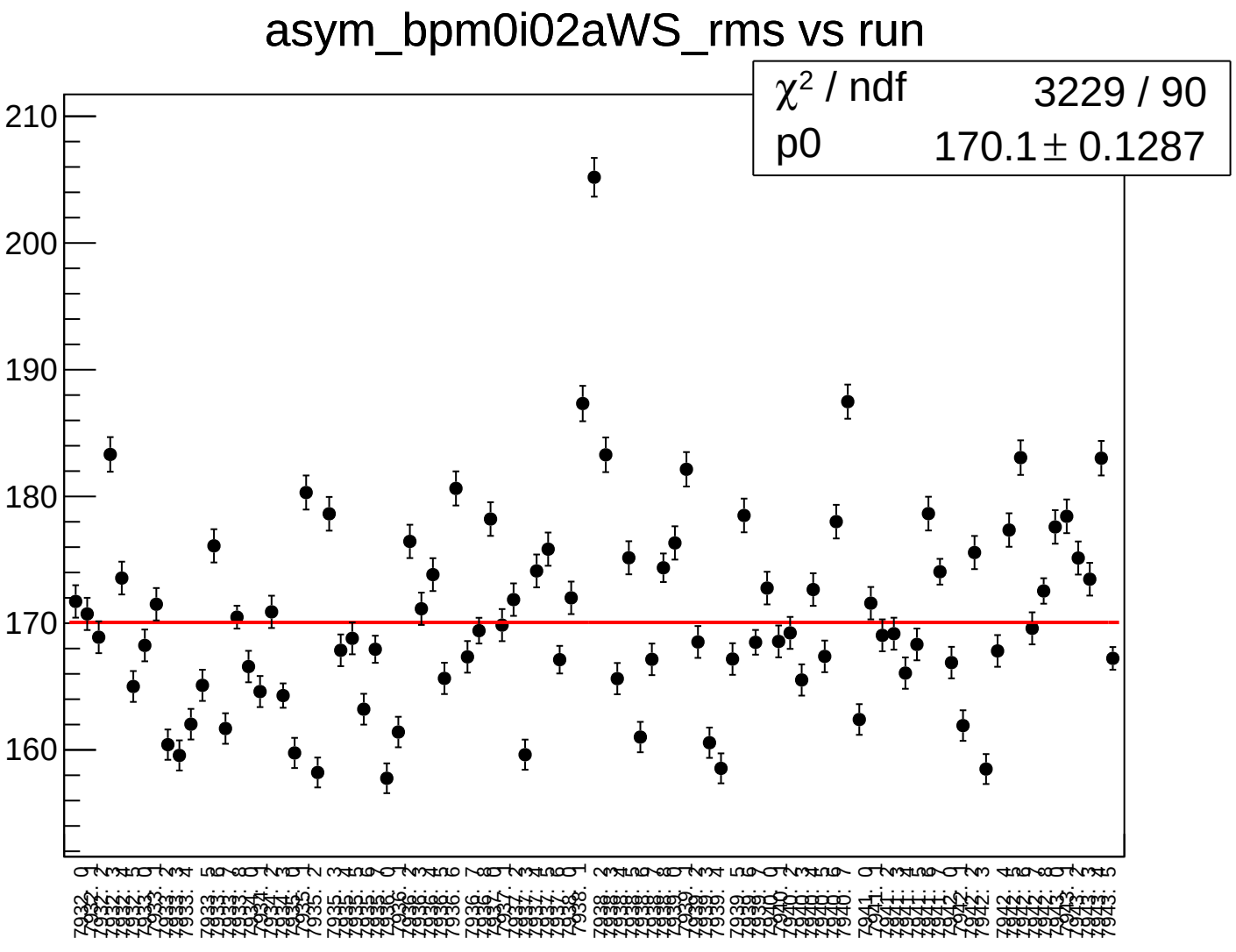

asym_bpm0i02WS_mean vs run
χ² / ndf 1199 / 90
p0 1395 ± 190.1
pull
Entries 91
Mean 2207
Std Dev 0

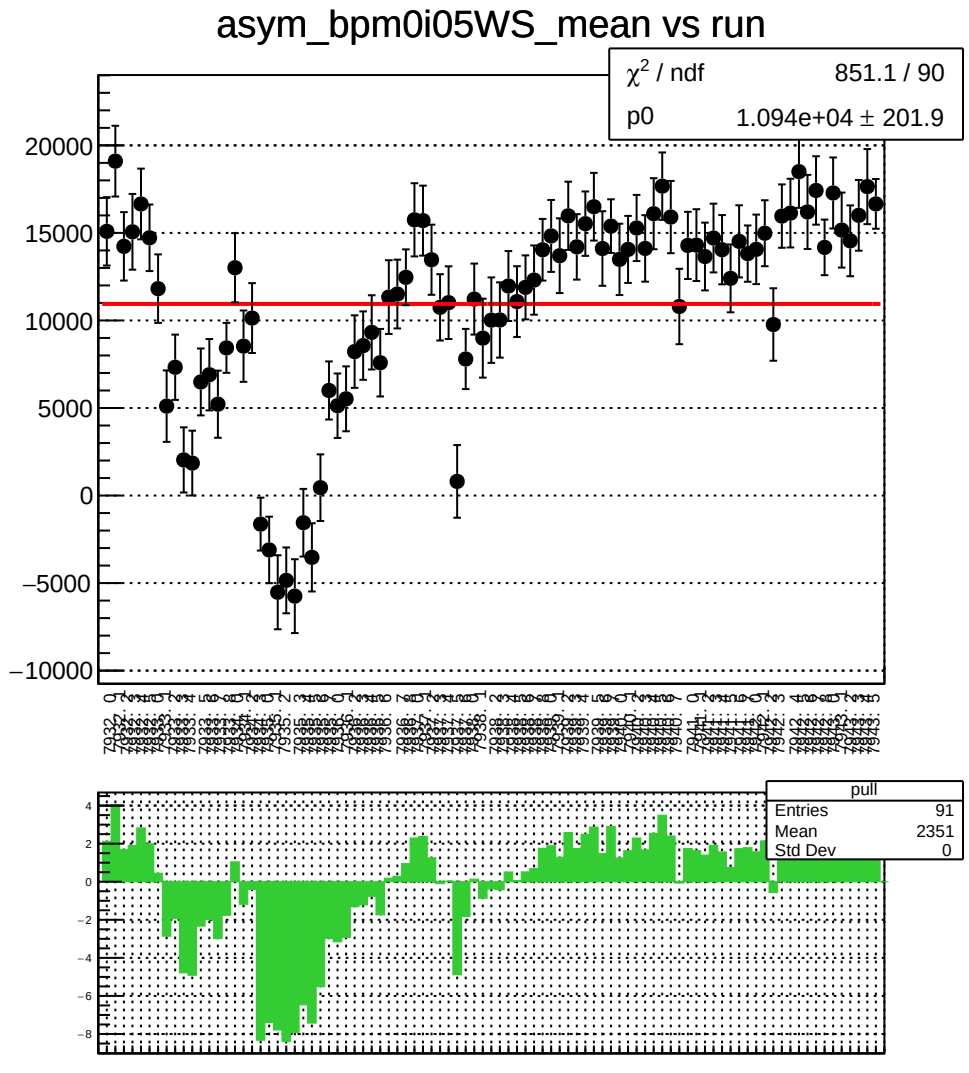

pull1D
Entries 91
Mean 0.4425
Std Dev 3.129

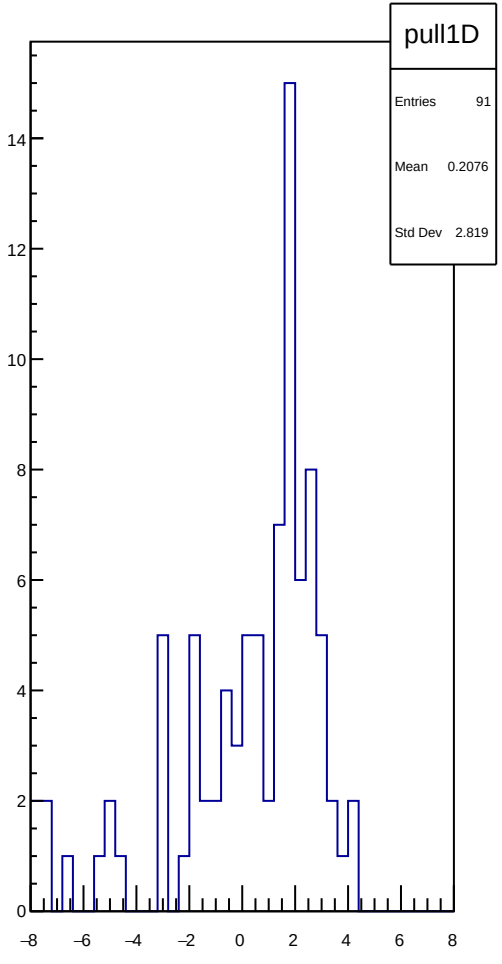

asym_bpm0i02WS_rms vs run
χ² / ndf 3967 / 90
p0 177.6 ± 0.1345
220
210
200
190
180
170
160

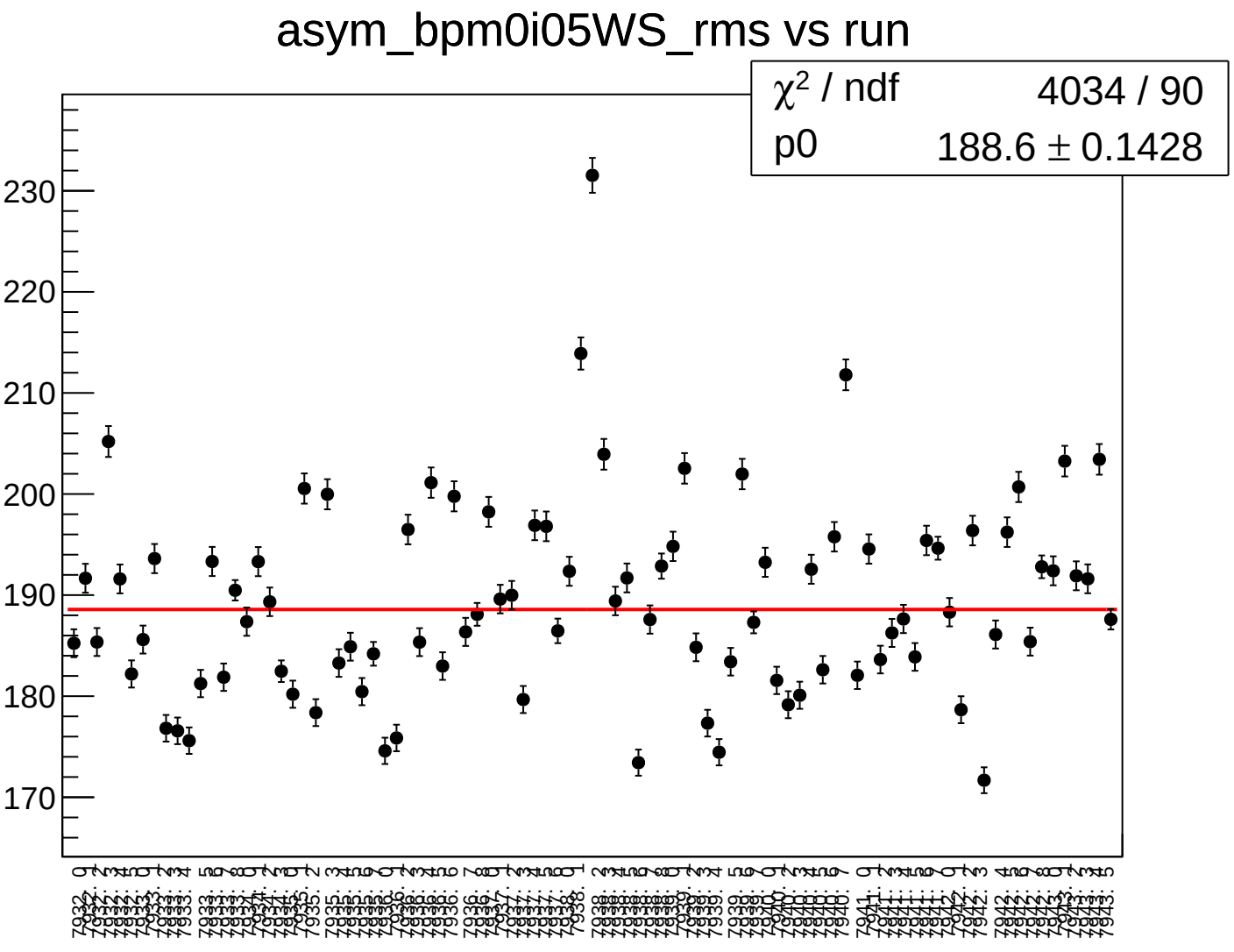

asym_bpm0i02aWS_mean vs run
χ² / ndf 791 / 90
p0 151.6 ± 182.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 3184
Std Dev 0
4
2
0
−2
−4
−6
−8

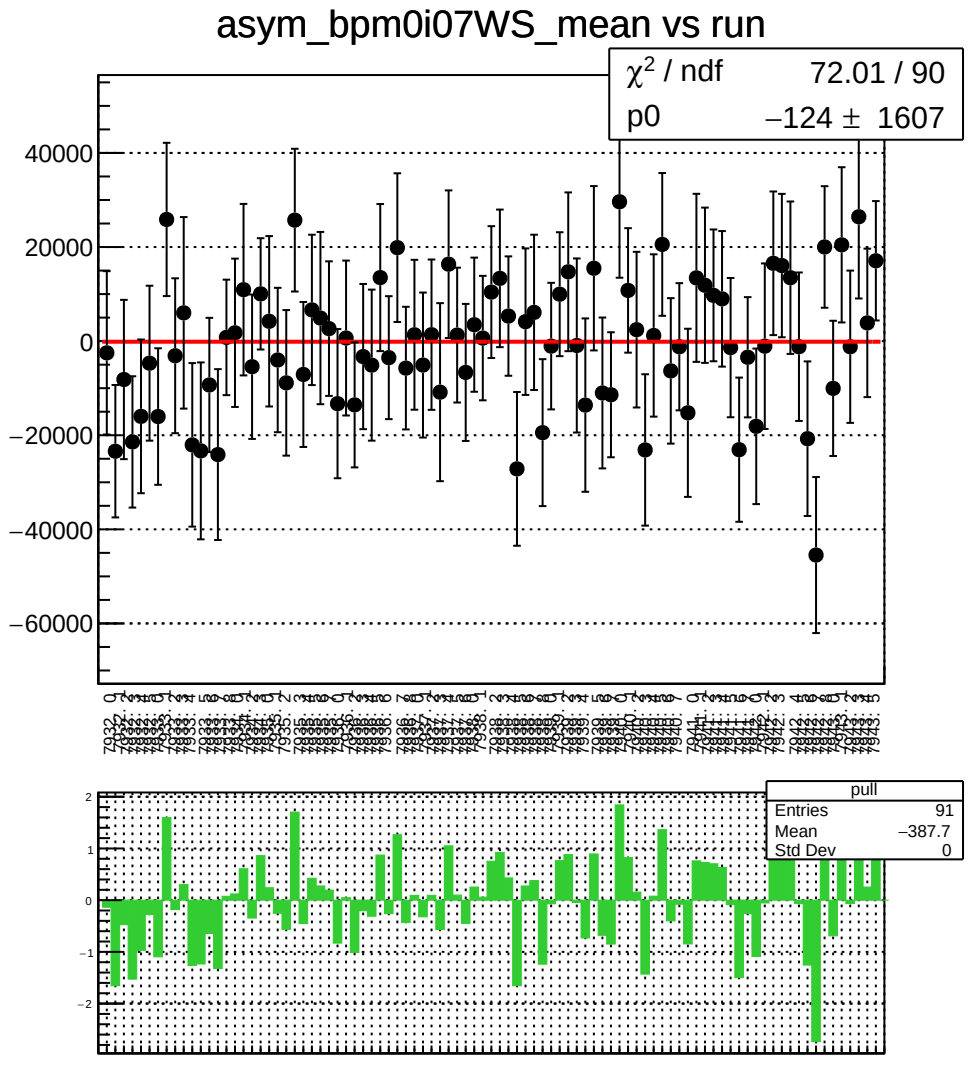

pull1D
Entries 91
Mean 0.01344
Std Dev 2.948
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

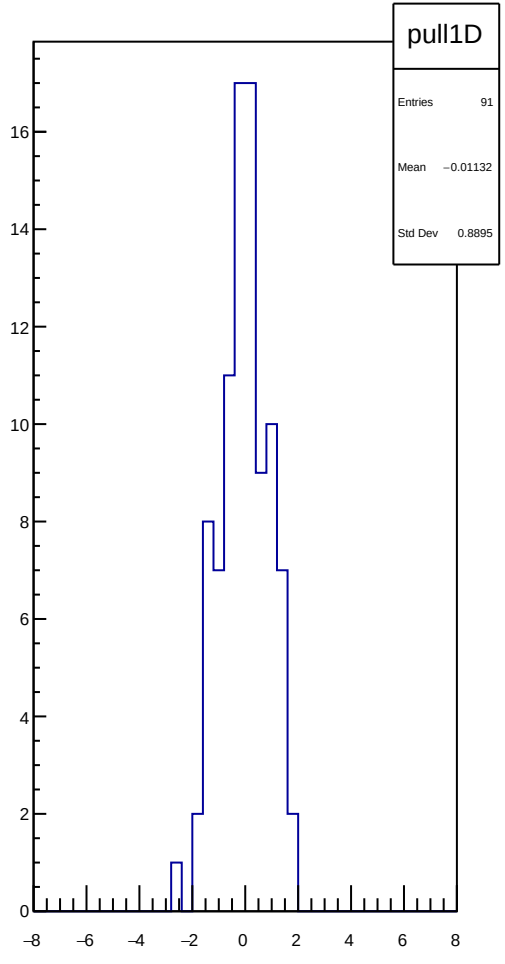

asym_bpm0i02aWS_rms vs run
χ² / ndf 3229 / 90
p0 170.1 ± 0.1287
210
200
190
180
170
160

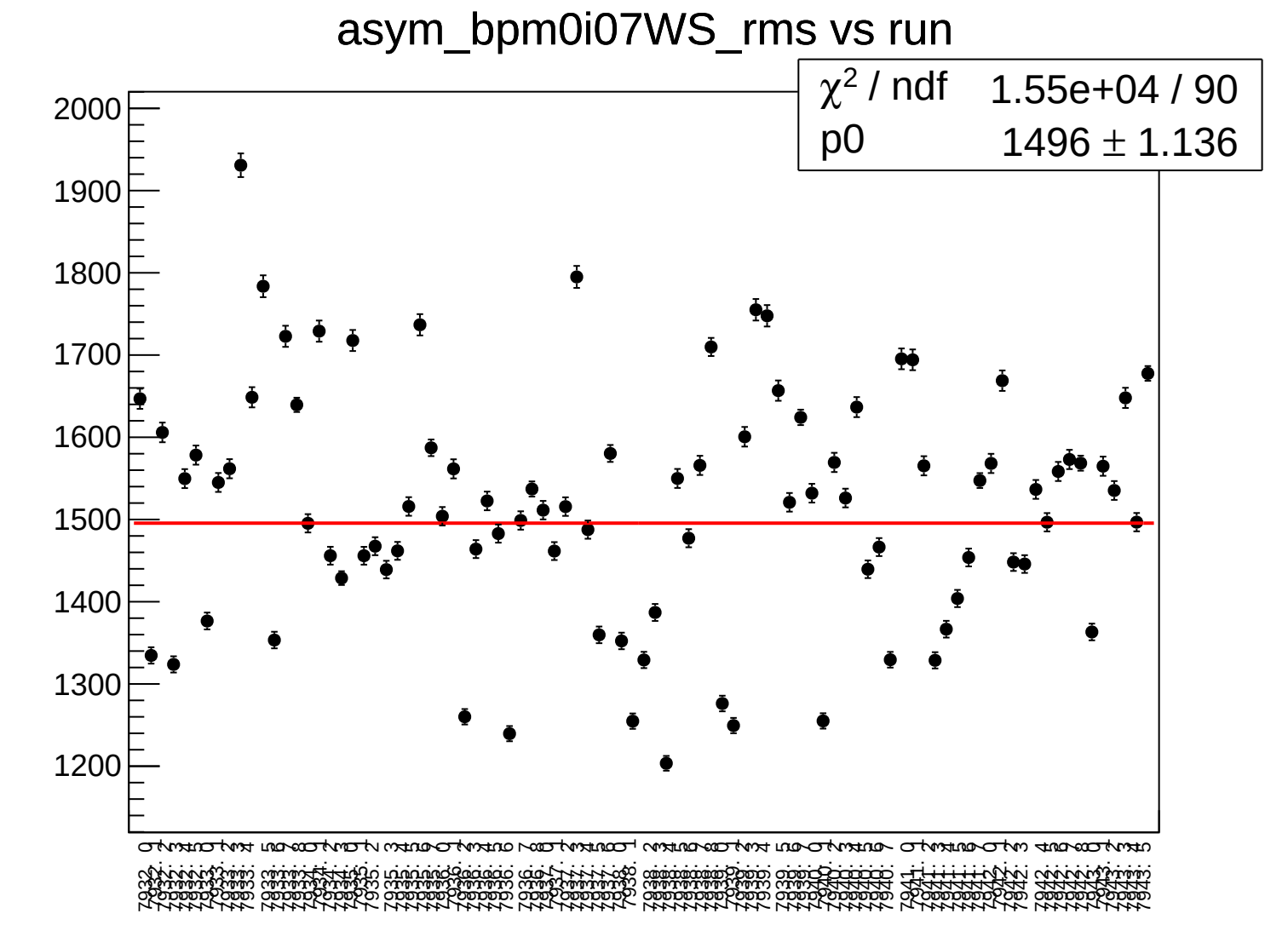

asym_bpm0i05WS_mean vs run
χ² / ndf 851.1 / 90
p0 1.094e+04 ± 201.9
pull
Entries 91
Mean 2351
Std Dev 0

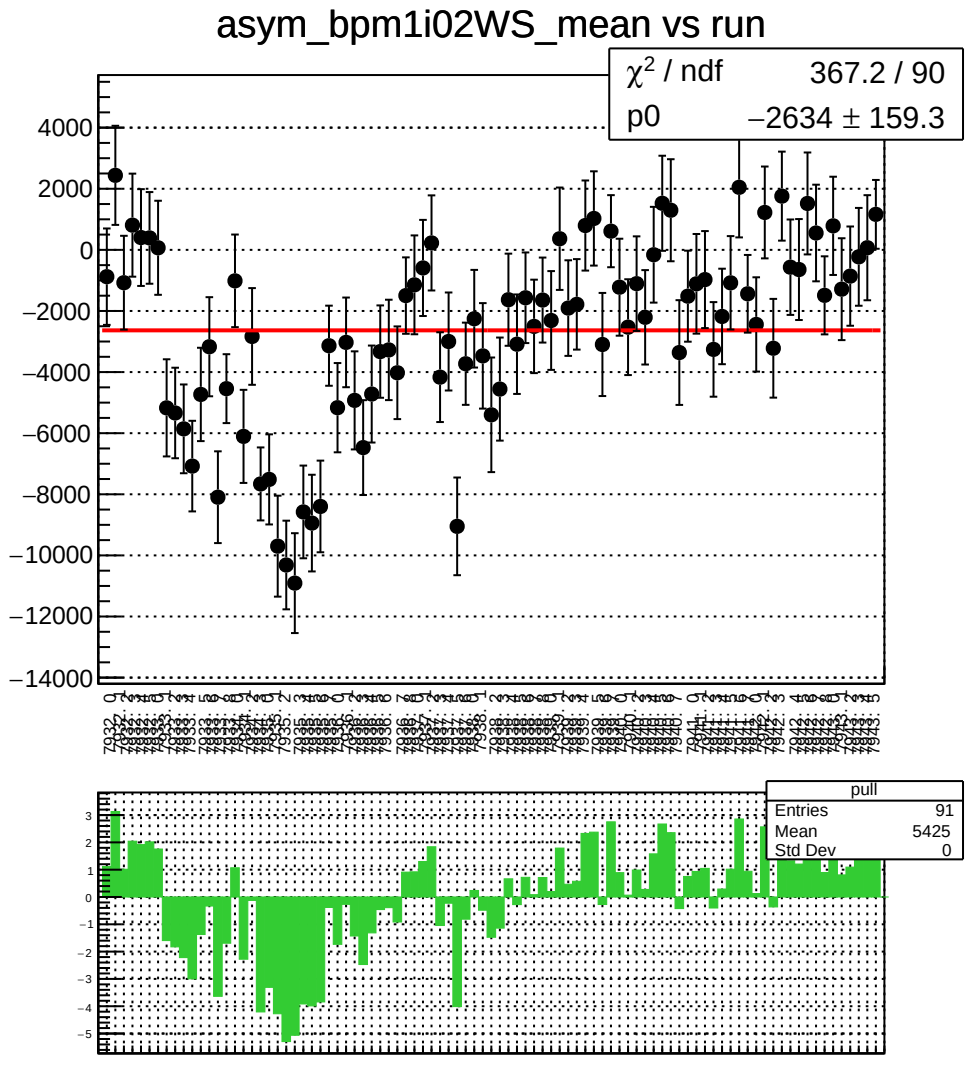

pull1D
Entries 91
Mean 0.2076
Std Dev 2.819

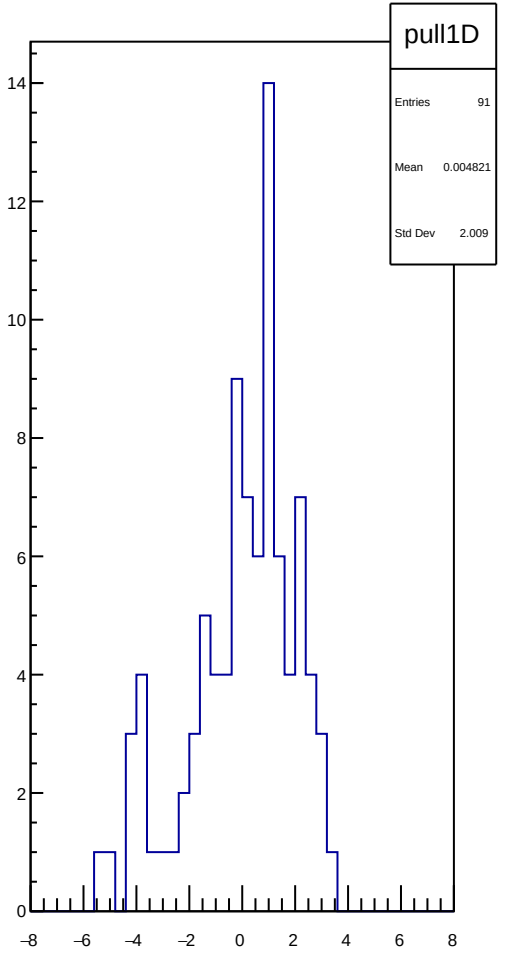

asym_bpm0i05WS_rms vs run
χ² / ndf 4034 / 90
p0 188.6 ± 0.1428
230
220
210
200
190
180
170

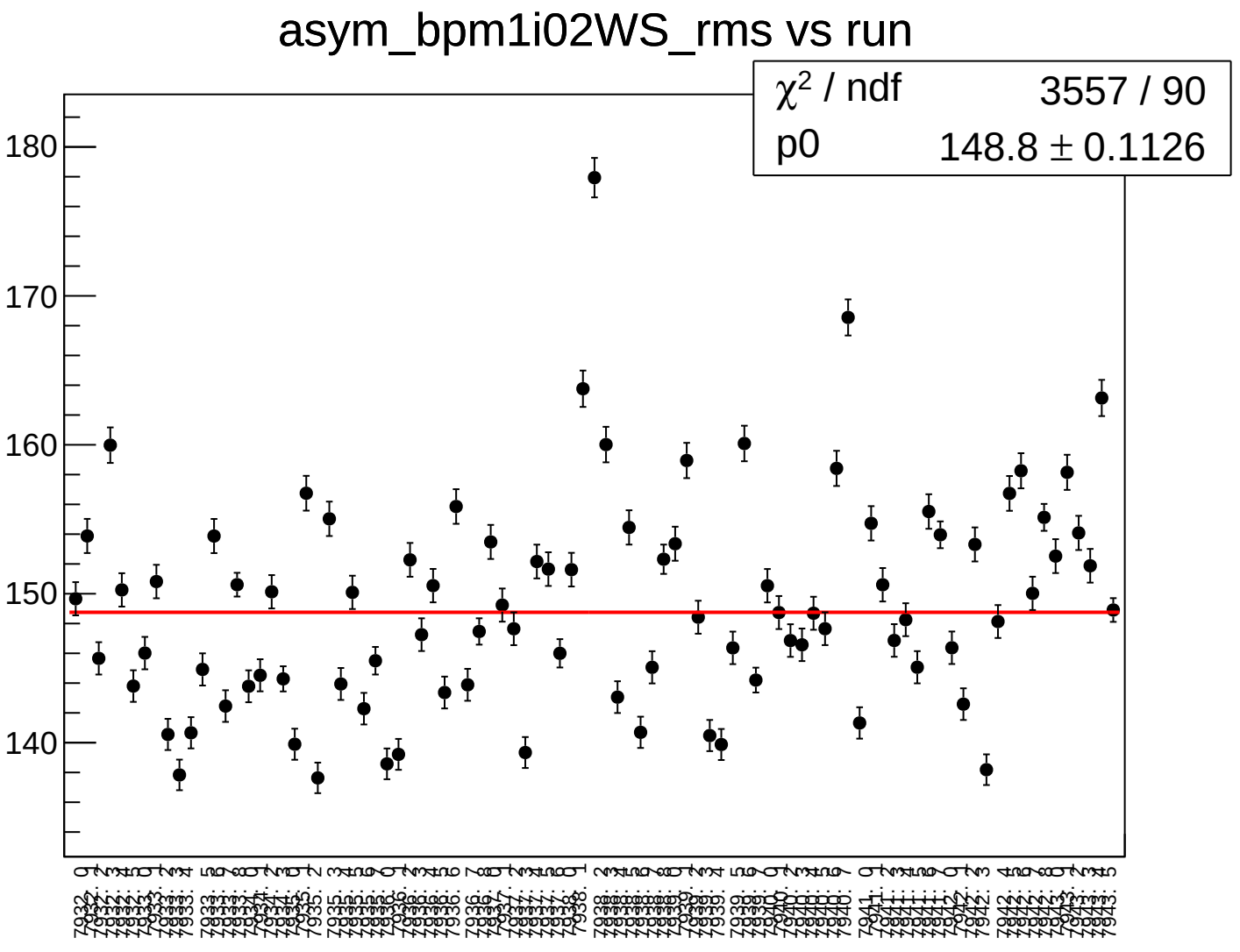

asym_bpm0i07WS_mean vs run
χ² / ndf 72.01 / 90
p0 −124 ± 1607
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −387.7
Std Dev 0
2
1
0
−1
−2

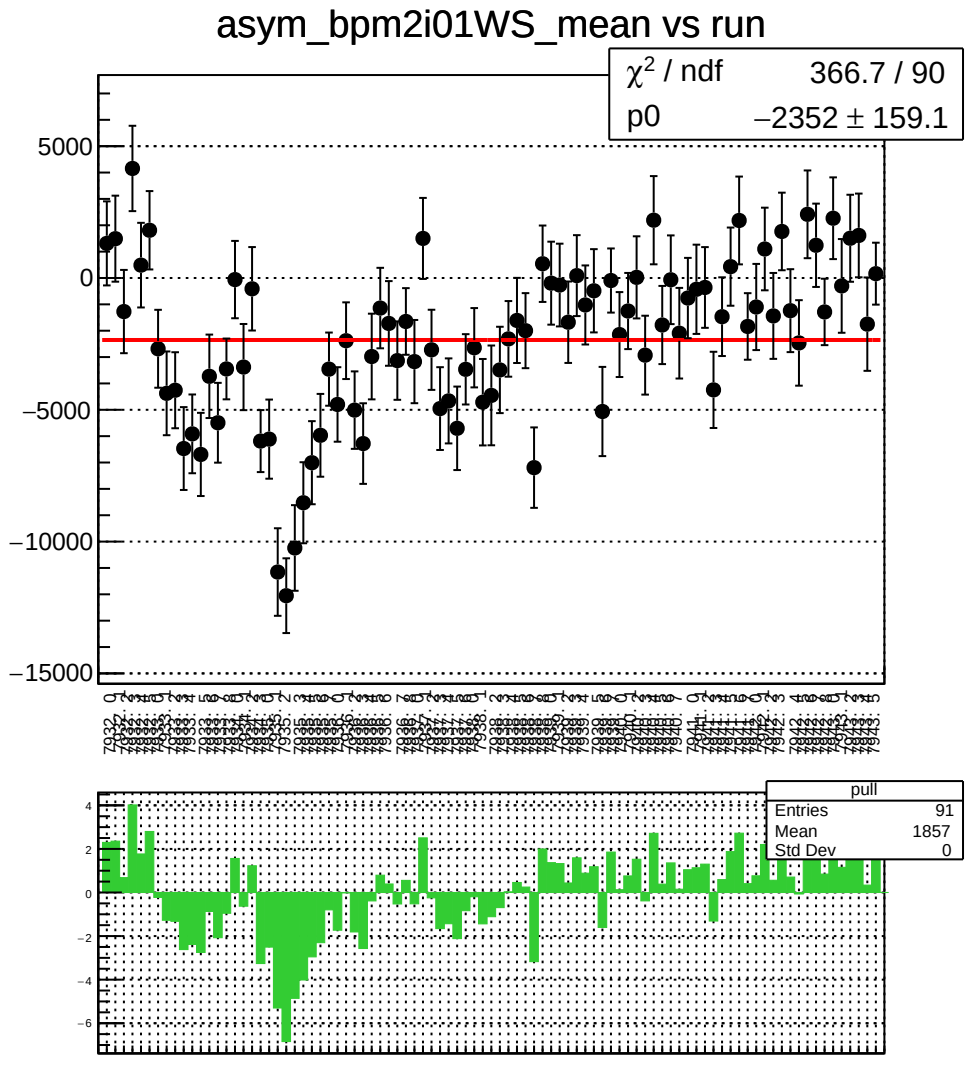

pull1D
Entries 91
Mean −0.01132
Std Dev 0.8895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

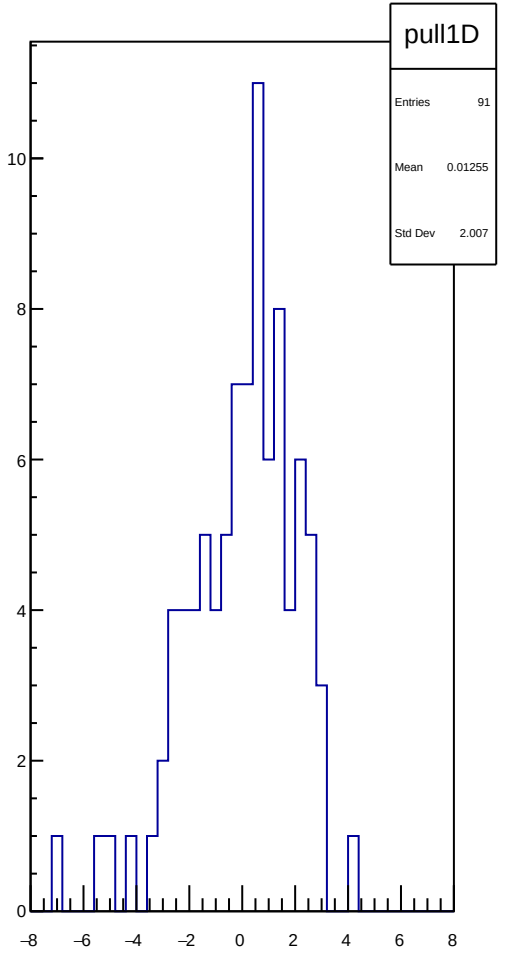

asym_bpm0i07WS_rms vs run
χ² / ndf 1.55e+04 / 90
p0 1496 ± 1.136
2000
1900
1800
1700
1600
1500
1400
1300
1200

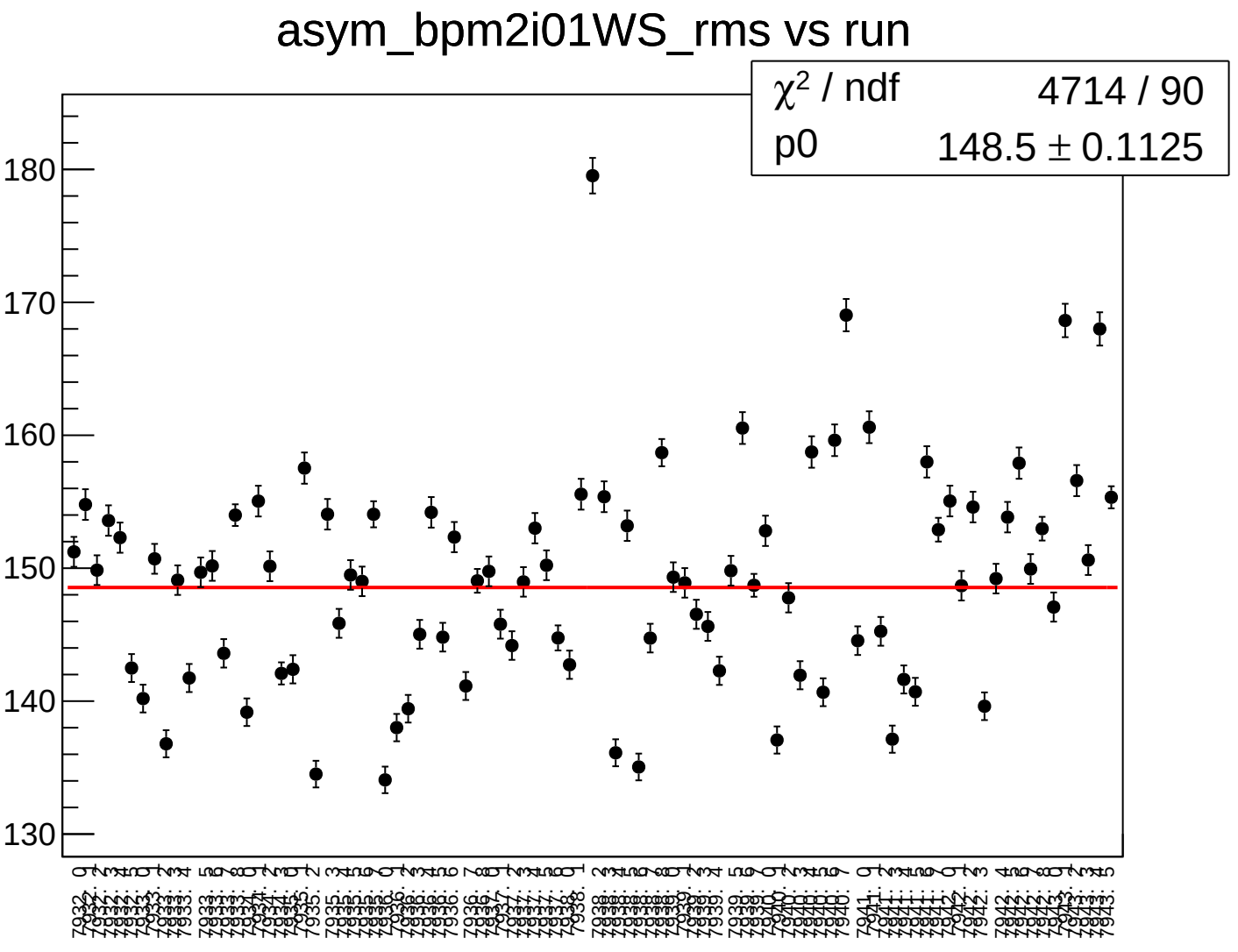

asym_bpm1i02WS_mean vs run
χ² / ndf 367.2 / 90
p0 −2634 ± 159.3
pull
Entries 91
Mean 5425
Std Dev 0

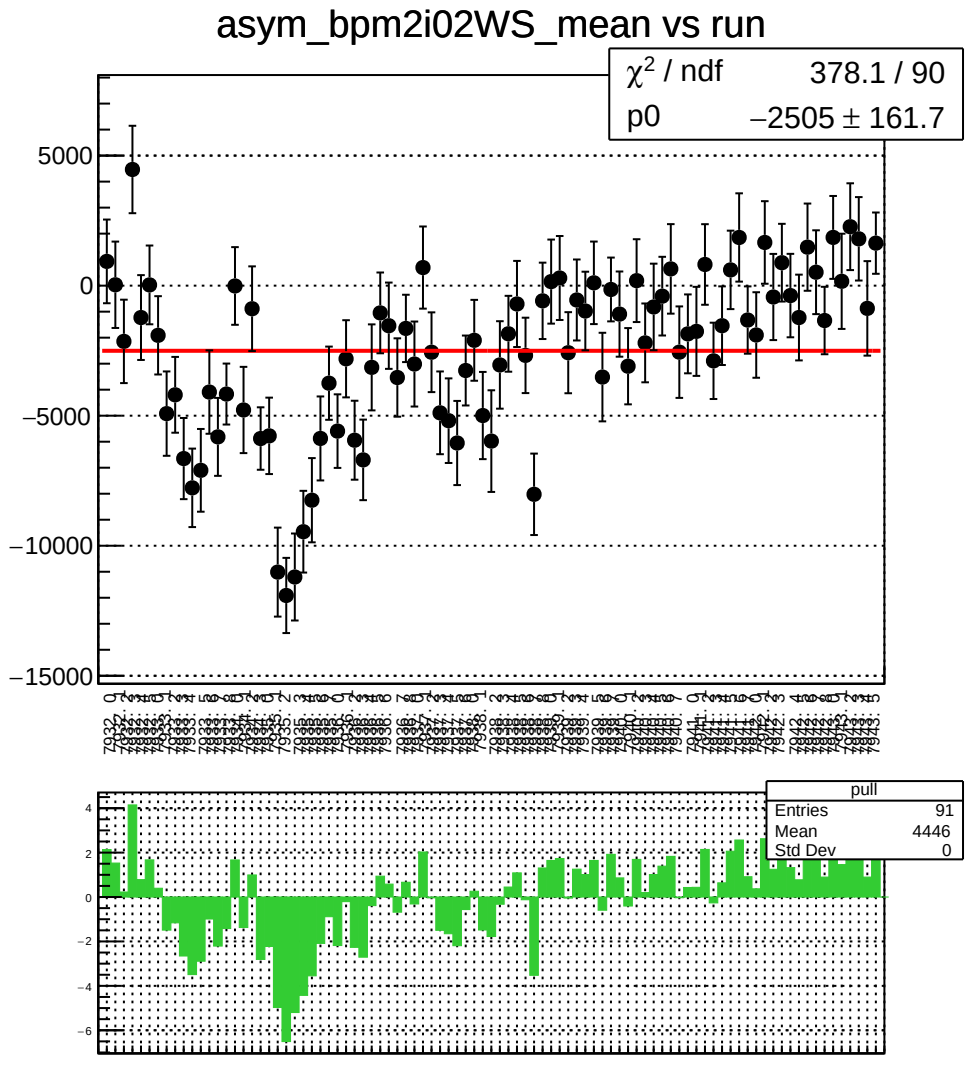

pull1D
Entries 91
Mean 0.004821
Std Dev 2.009

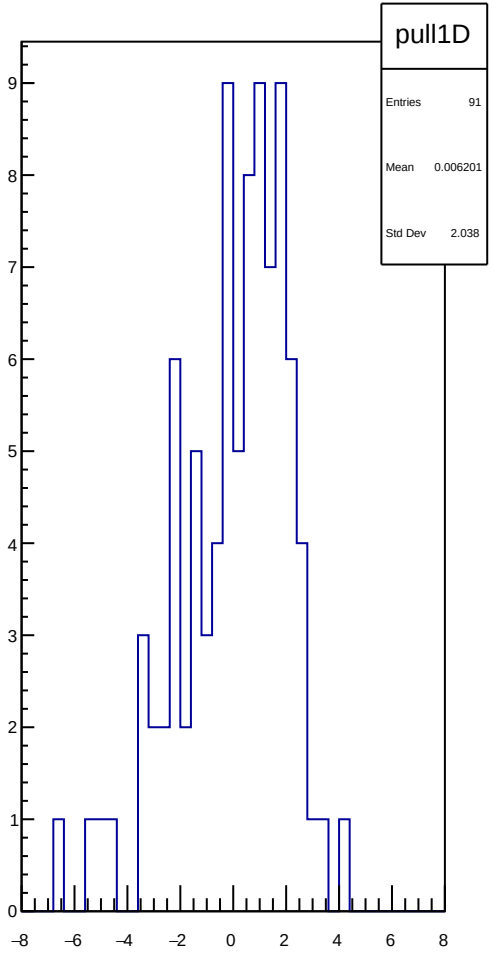

asym_bpm1i02WS_rms vs run
χ² / ndf 3557 / 90
p0 148.8 ± 0.1126
180
170
160
150
140

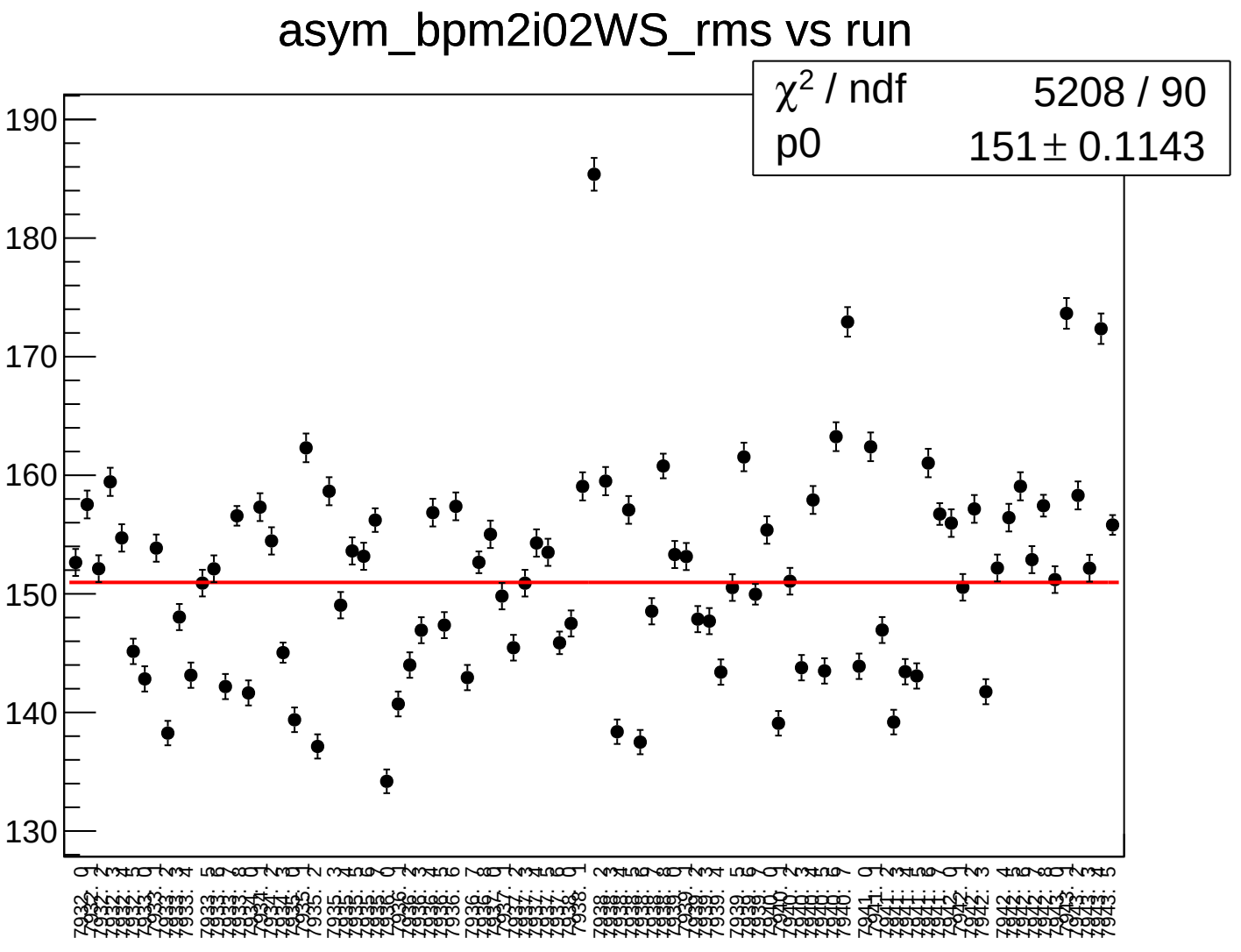

asym_bpm2i01WS_mean vs run
χ² / ndf 366.7 / 90
p0 −2352 ± 159.1
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 1857
Std Dev 0
4
2
0
−2
−4
−6

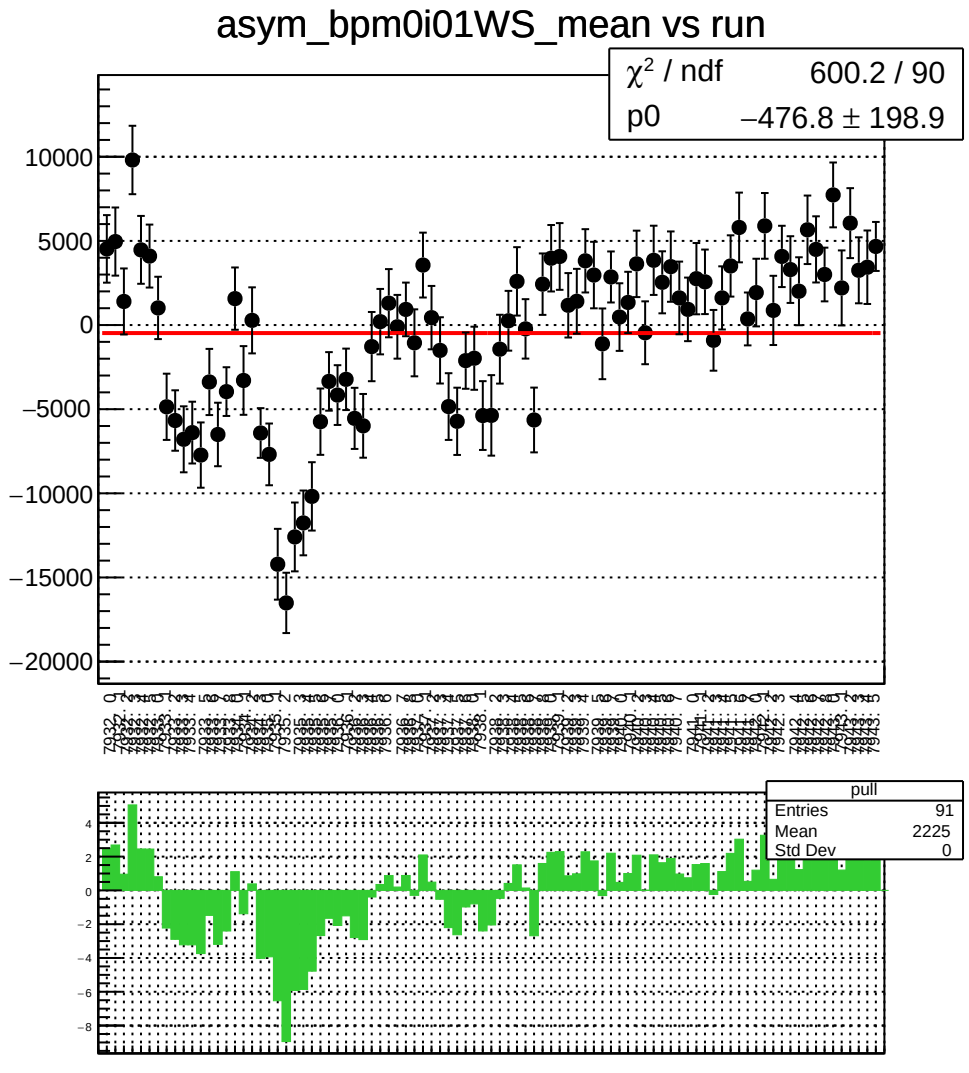

pull1D
Entries 91
Mean 0.01255
Std Dev 2.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

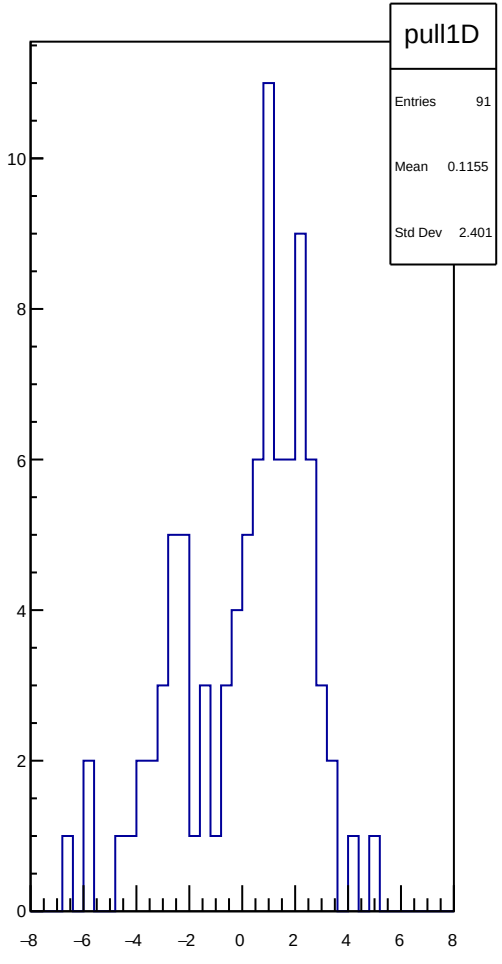

asym_bpm2i01WS_rms vs run
χ² / ndf 4714 / 90
p0 148.5 ± 0.1125
180
170
160
150
140
130

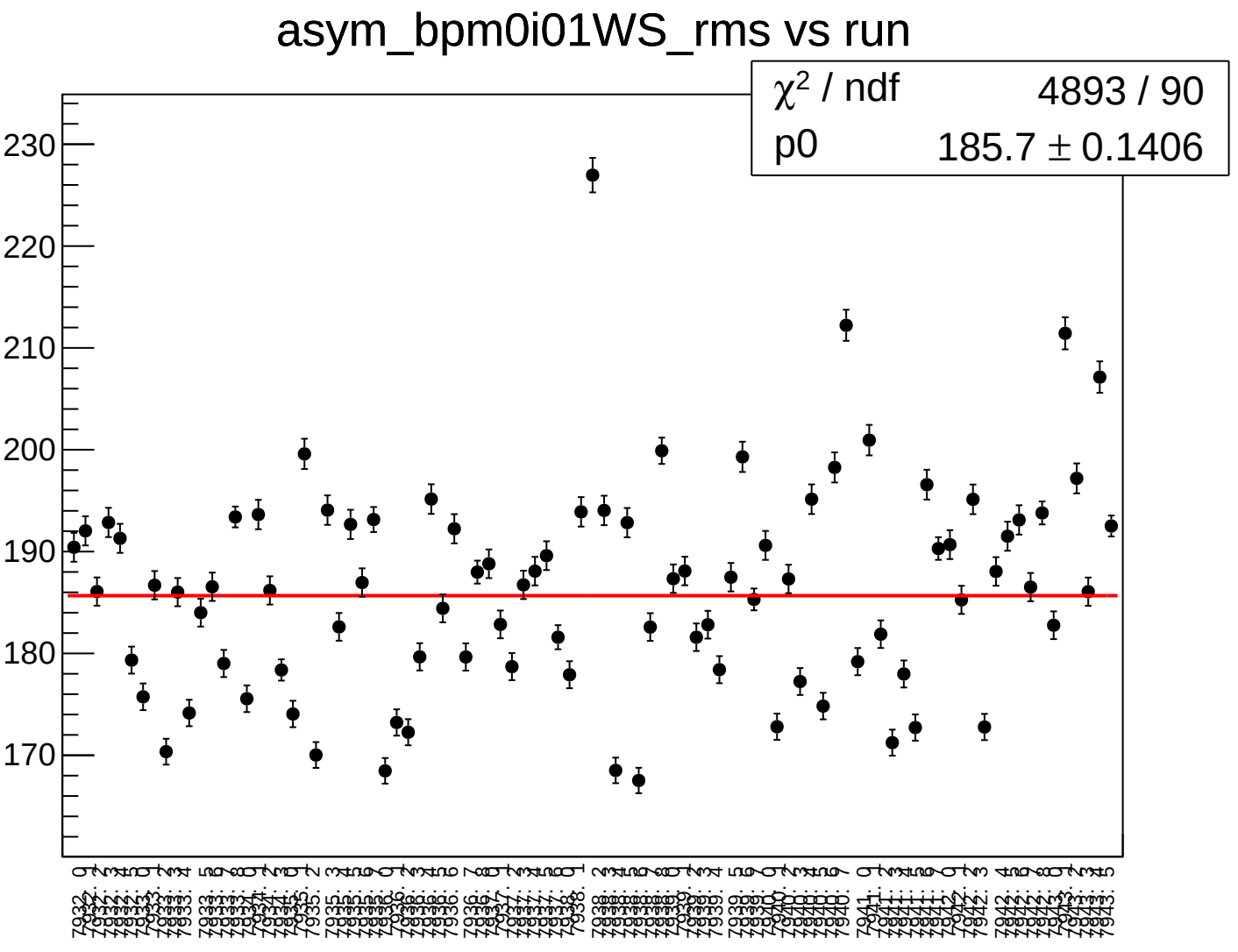

asym_bpm2i02WS_mean vs run
χ² / ndf 378.1 / 90
p0 −2505 ± 161.7
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 4446
Std Dev 0
4
2
0
−2
−4
−6

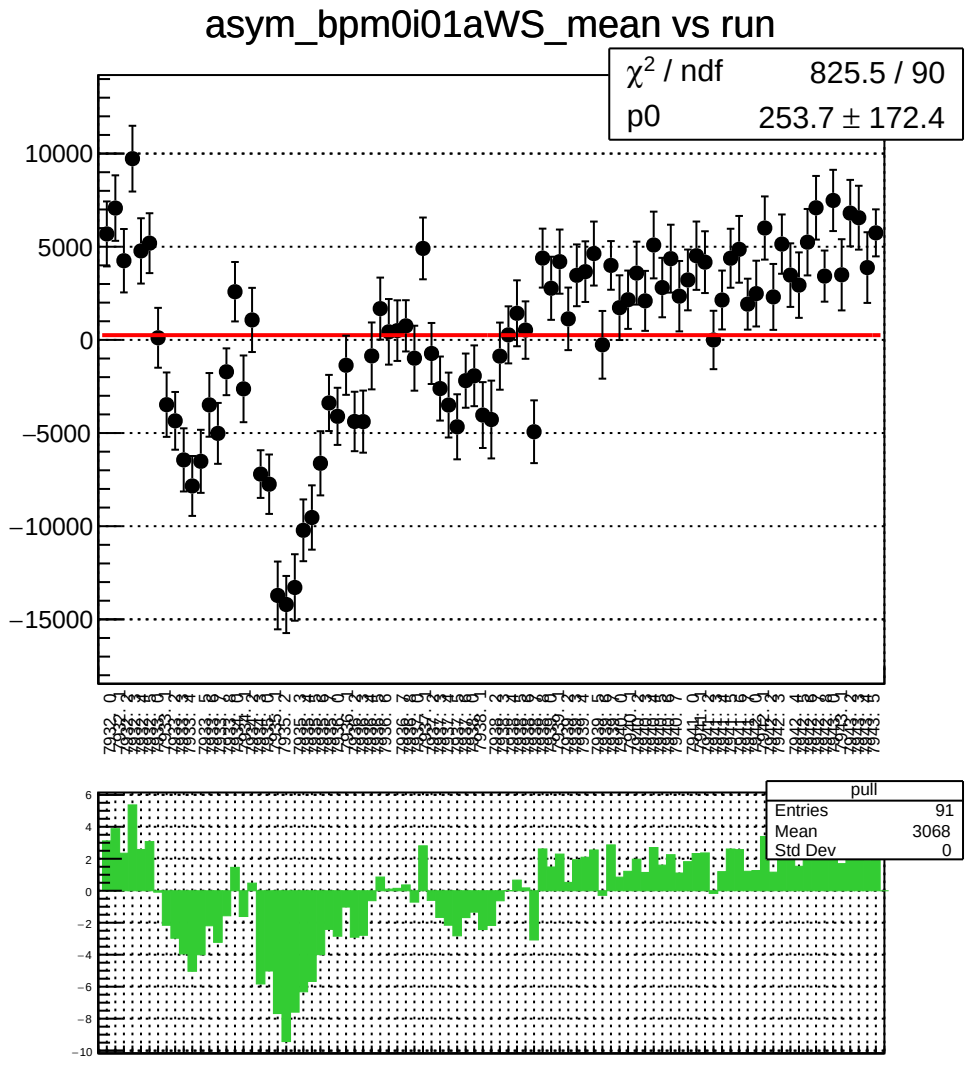

pull1D
Entries 91
Mean 0.006201
Std Dev 2.038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

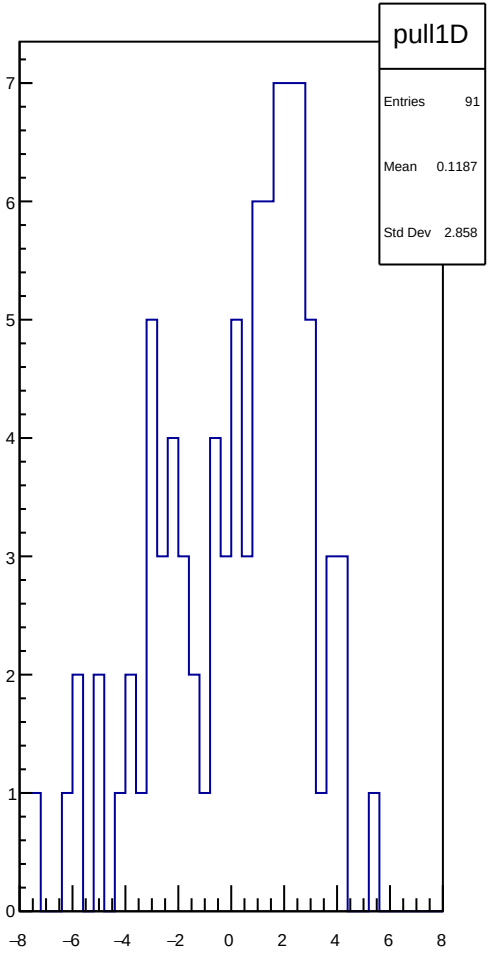

asym_bpm2i02WS_rms vs run
χ² / ndf 5208 / 90
p0 151 ± 0.1143
190
180
170
160
150
140
130

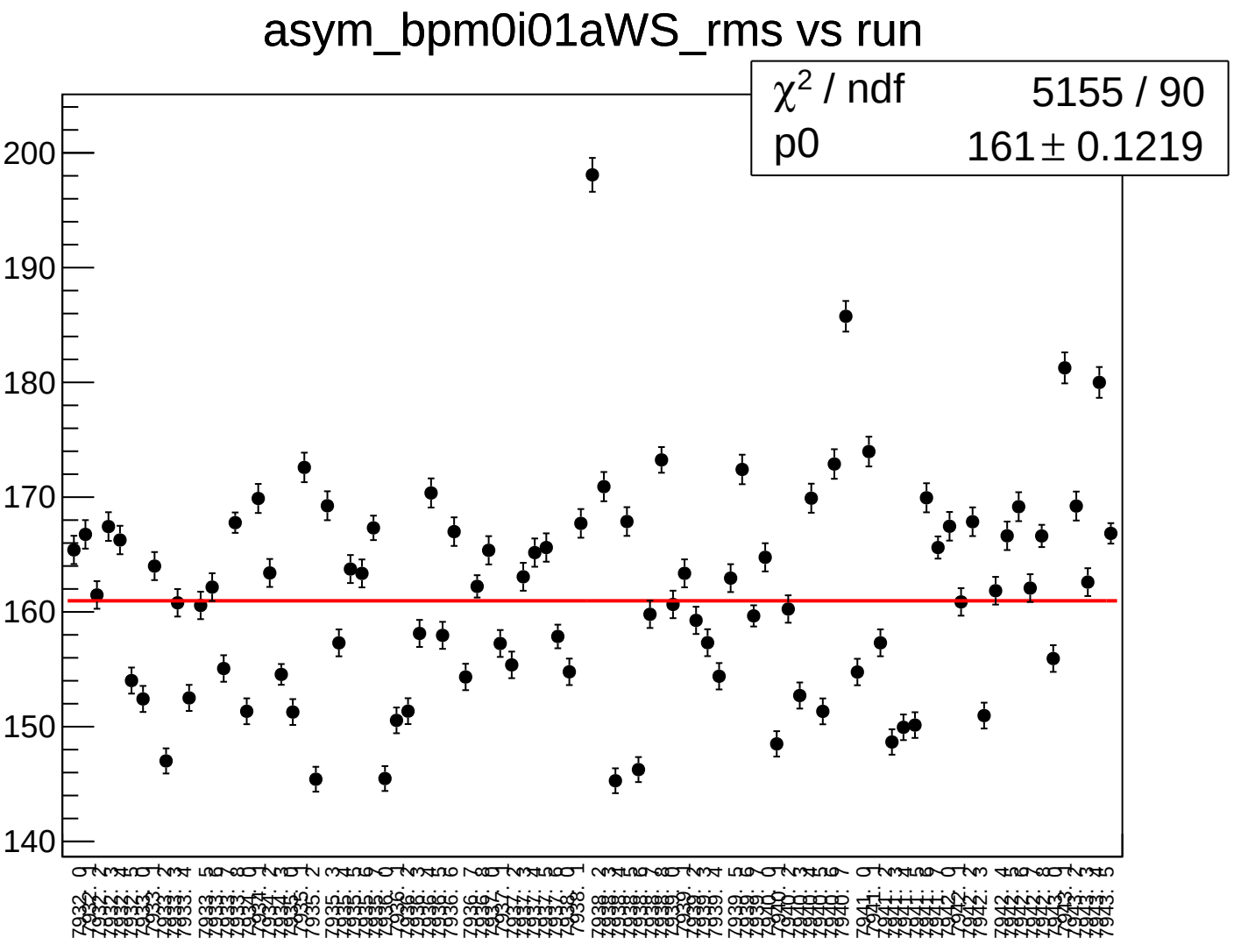

asym_bpm0i01WS_mean vs run
χ² / ndf 600.2 / 90
p0 −476.8 ± 198.9
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 2225
Std Dev 0
4
2
0
−2
−4
−6
−8

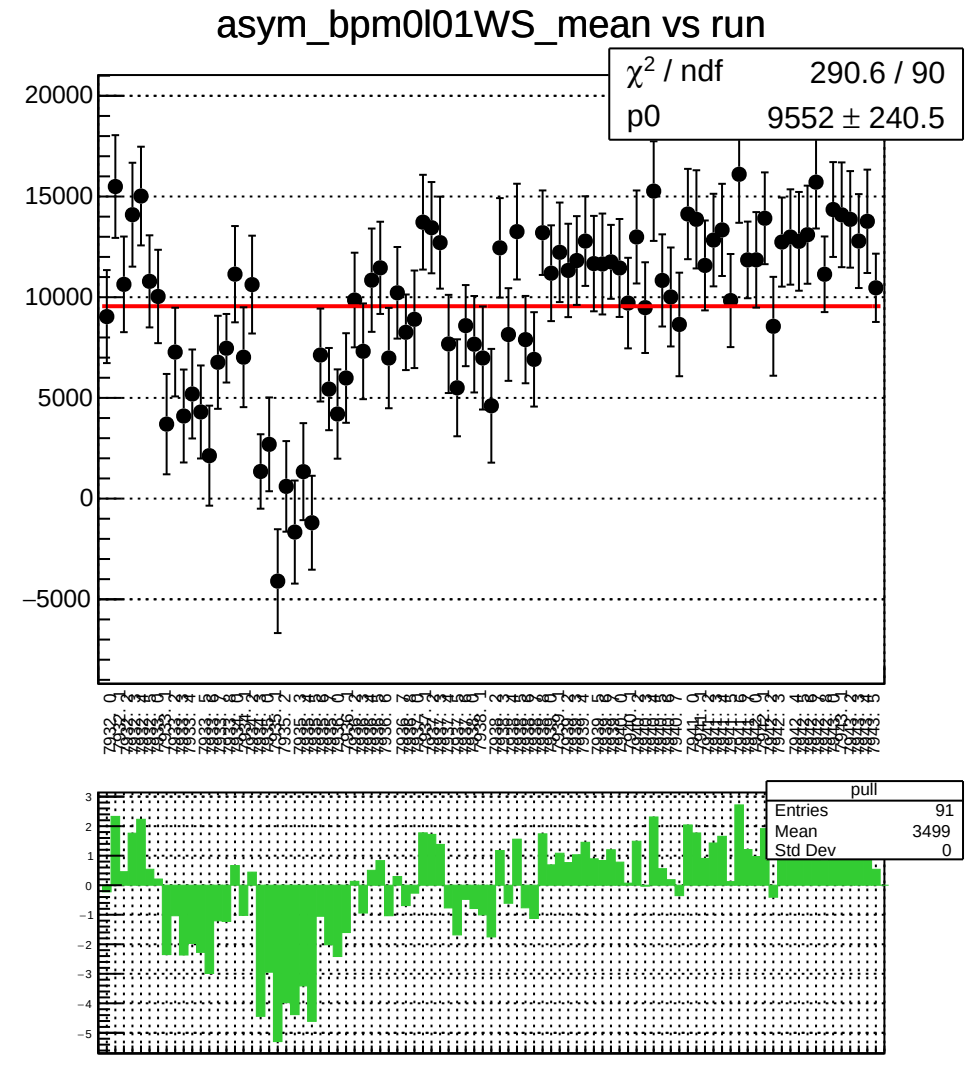

pull1D
Entries 91
Mean 0.1155
Std Dev 2.401
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

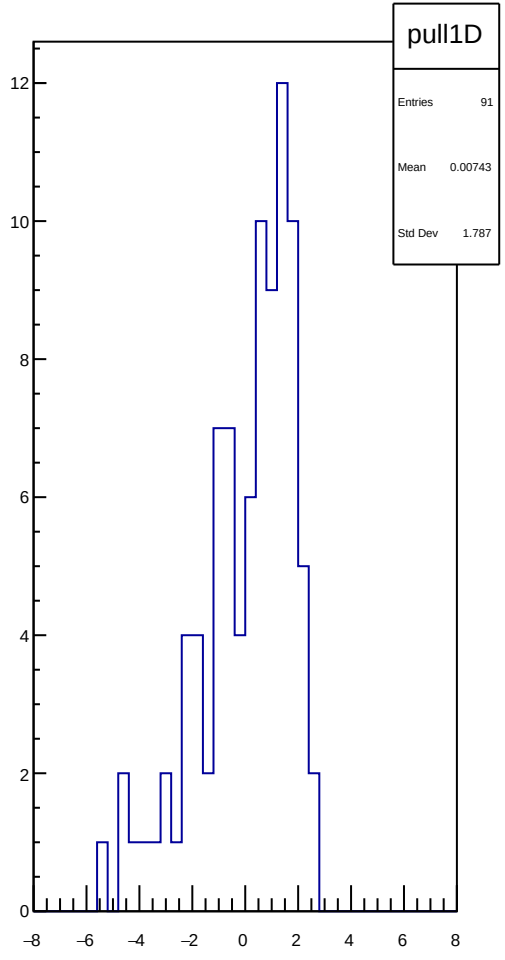

asym_bpm0i01WS_rms vs run
χ² / ndf 4893 / 90
p0 185.7 ± 0.1406
230
220
210
200
190
180
170

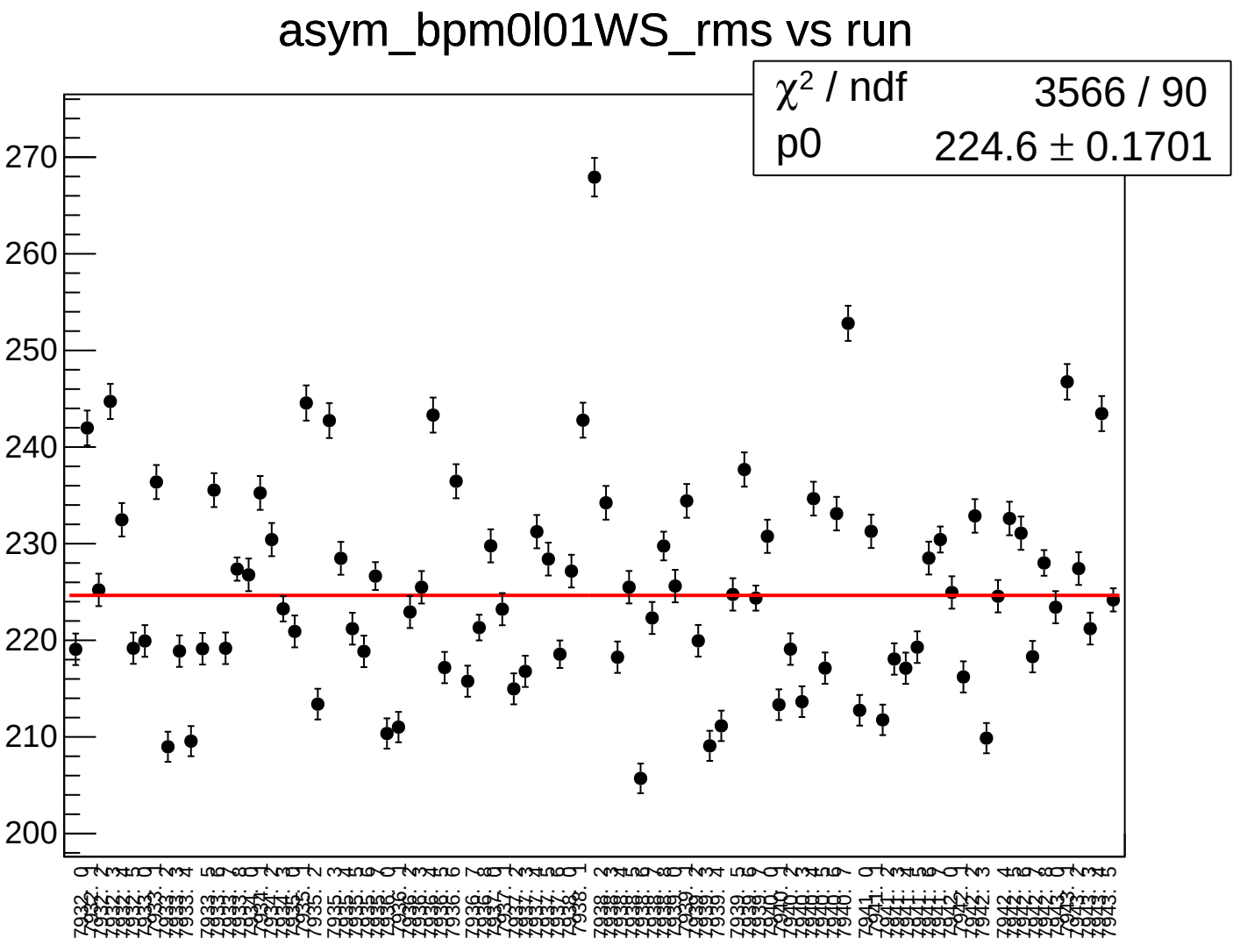

asym_bpm0i01aWS_mean vs run
χ² / ndf 825.5 / 90
p0 253.7 ± 172.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 3068
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

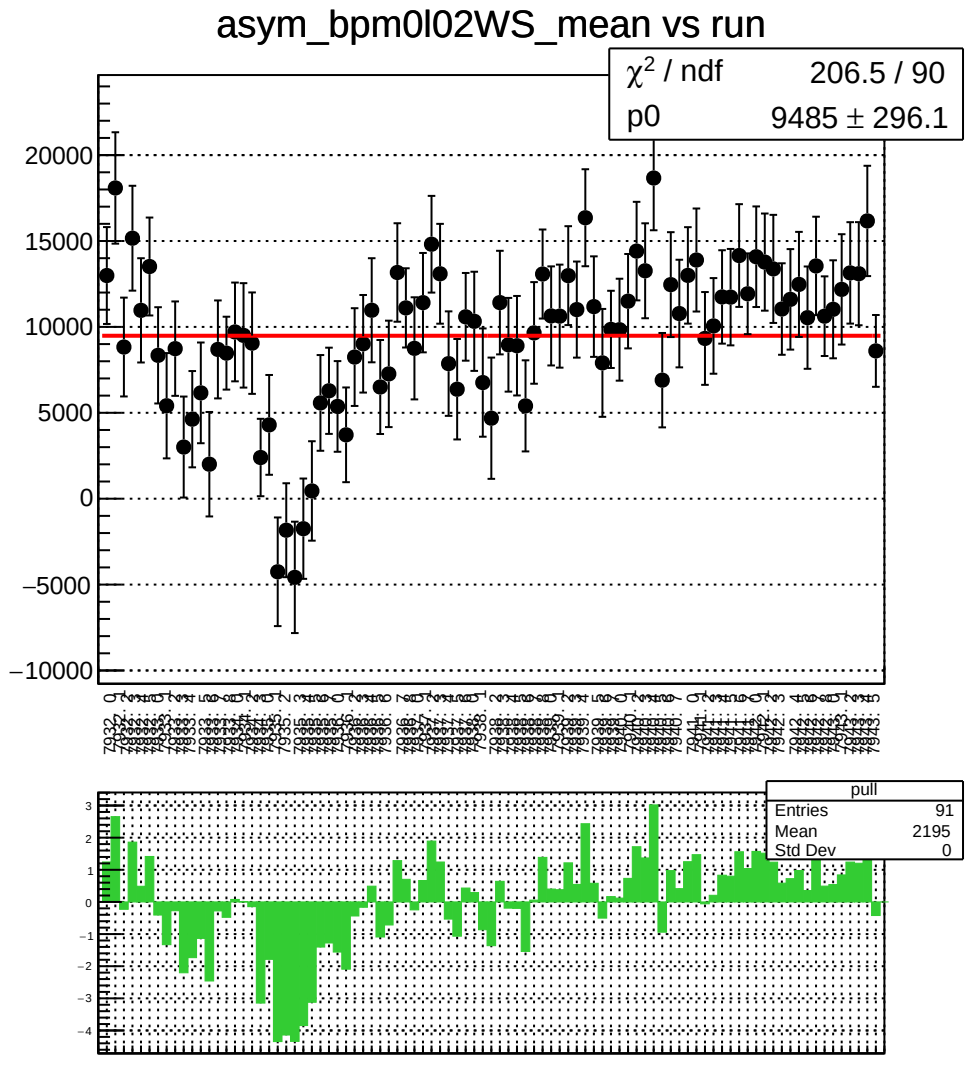

pull1D
Entries 91
Mean 0.1187
Std Dev 2.858
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

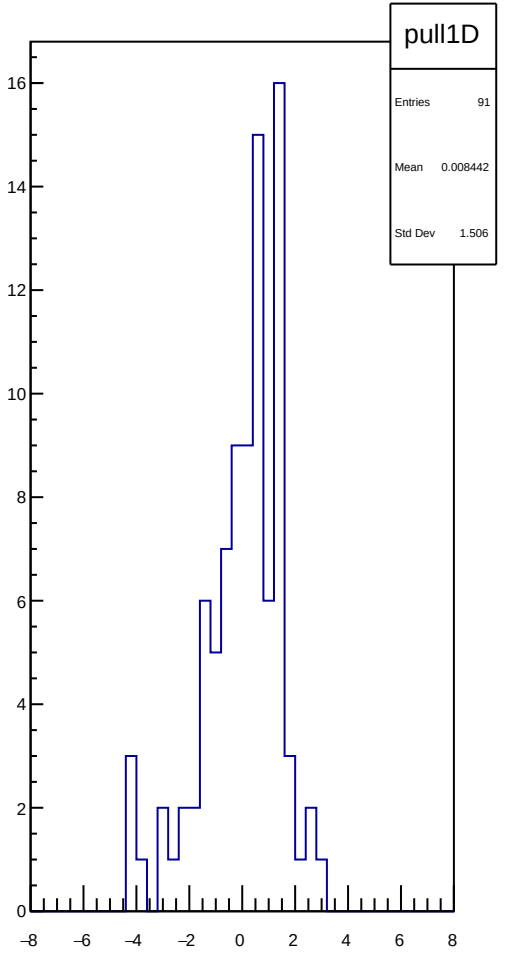

asym_bpm0i01aWS_rms vs run
χ² / ndf 5155 / 90
p0 161 ± 0.1219
200
190
180
170
160
150
140

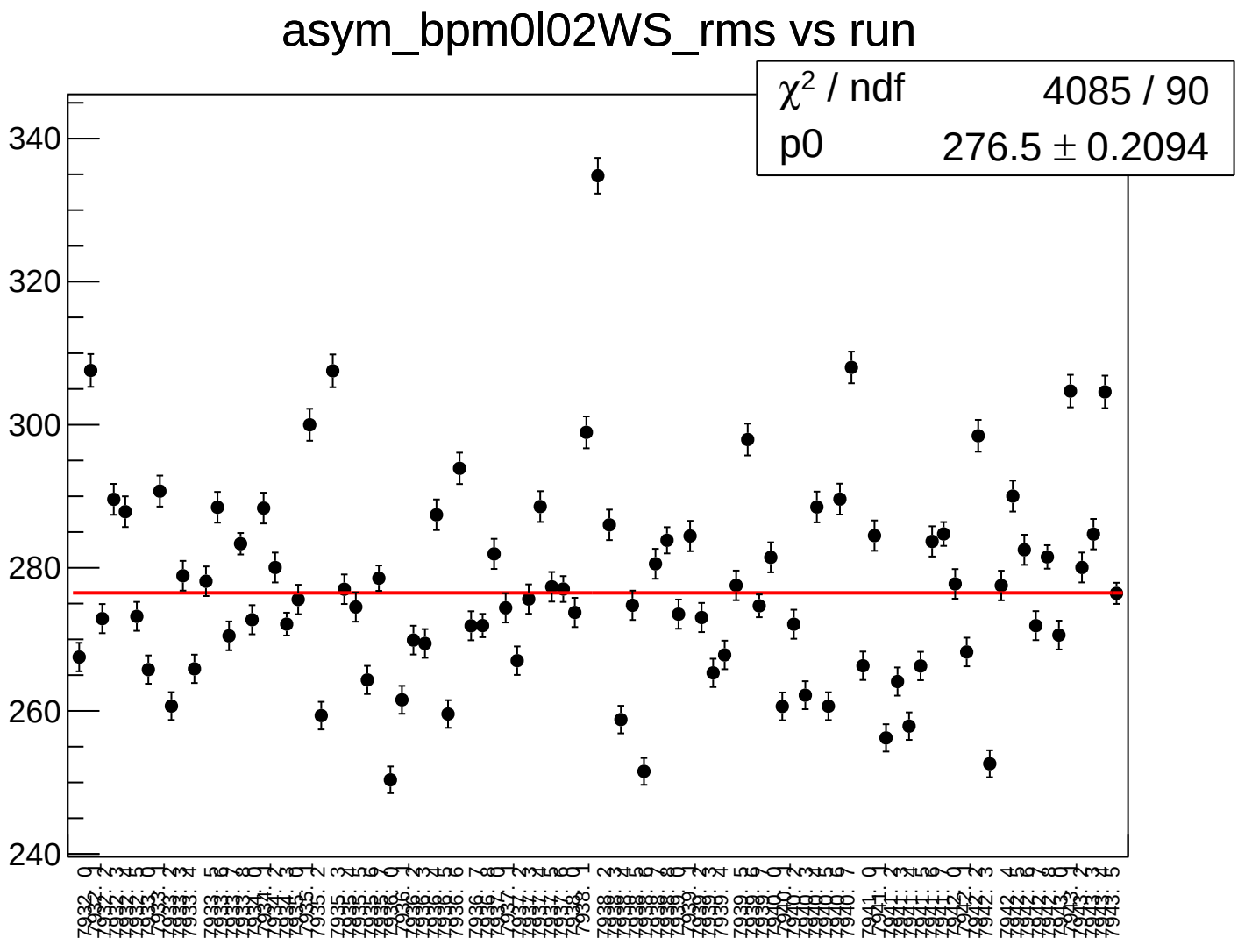

asym_bpm0l01WS_mean vs run
χ² / ndf 290.6 / 90
p0 9552 ± 240.5
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 3499
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

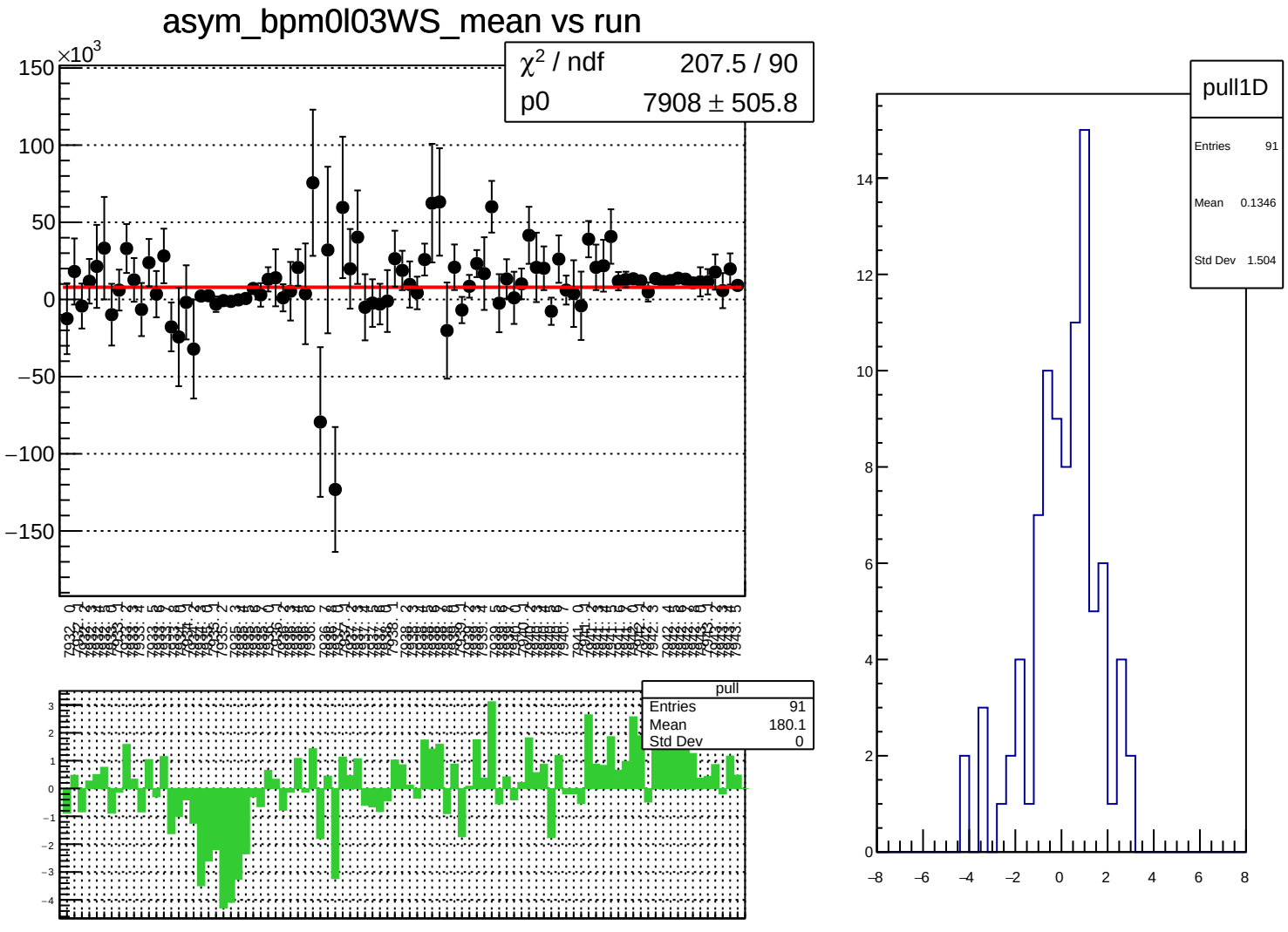

pull1D
Entries 91
Mean 0.00743
Std Dev 1.787
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

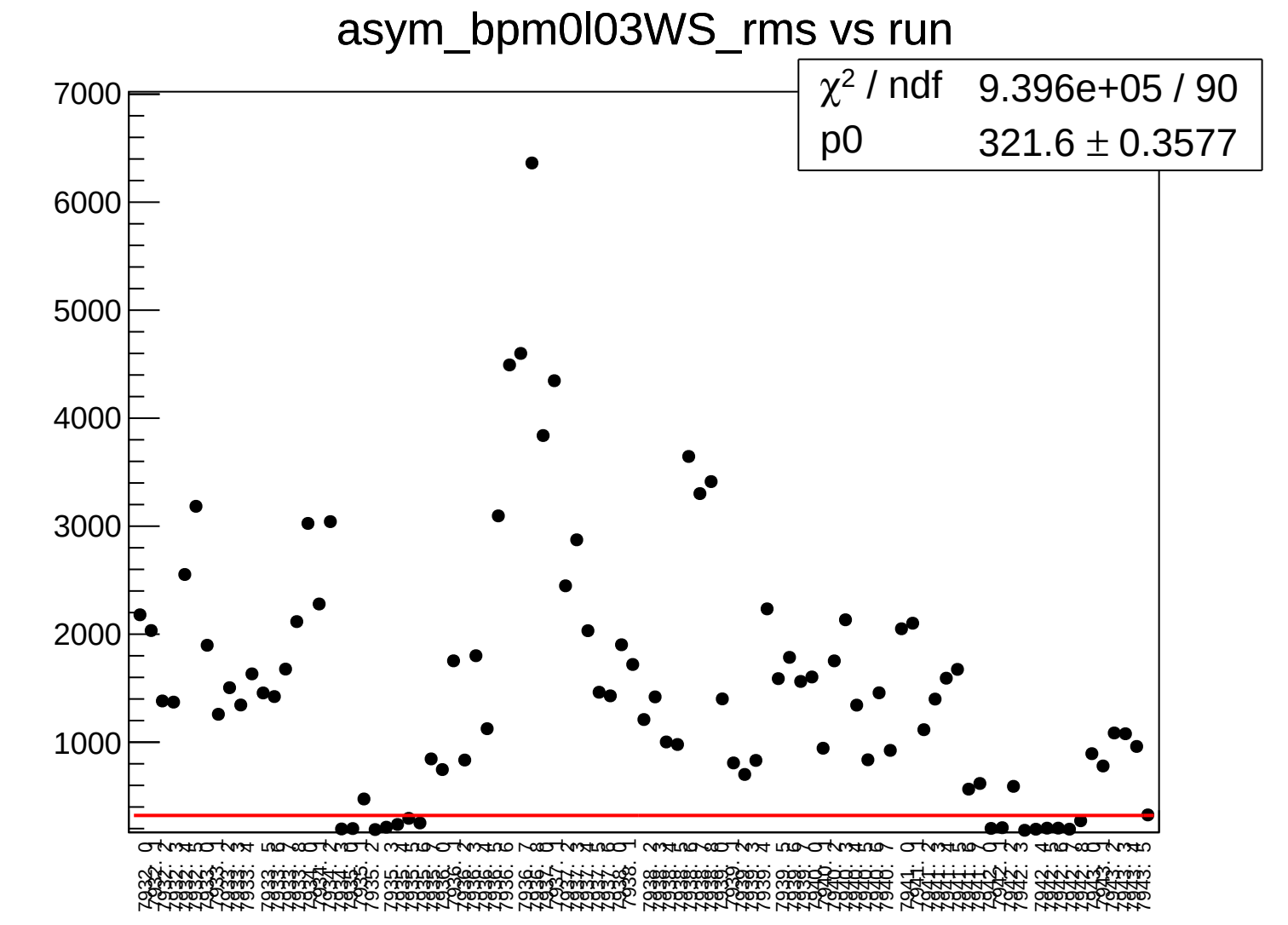

asym_bpm0l01WS_rms vs run
χ² / ndf 3566 / 90
p0 224.6 ± 0.1701
270
260
250
240
230
220
210
200

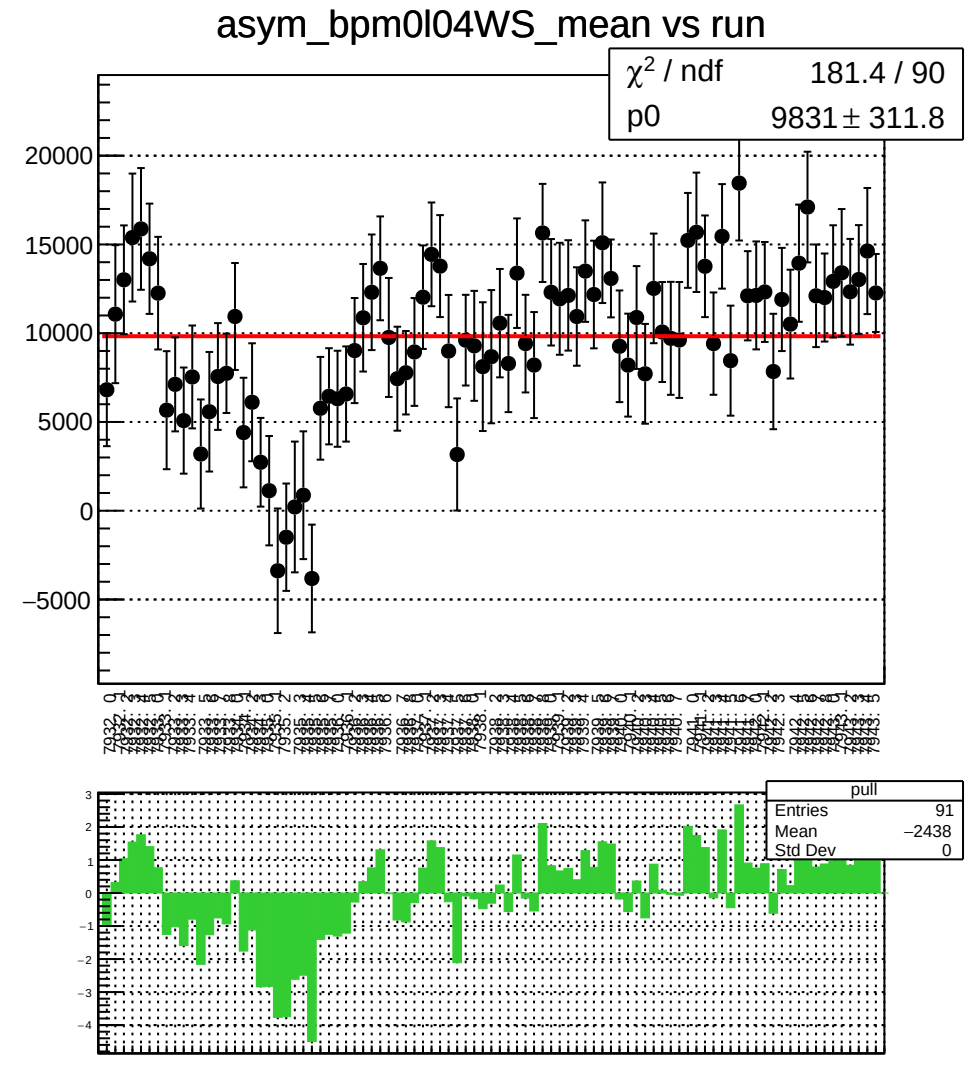

asym_bpm0l02WS_mean vs run
χ² / ndf 206.5 / 90
p0 9485 ± 296.1
pull
Entries 91
Mean 2195
Std Dev 0

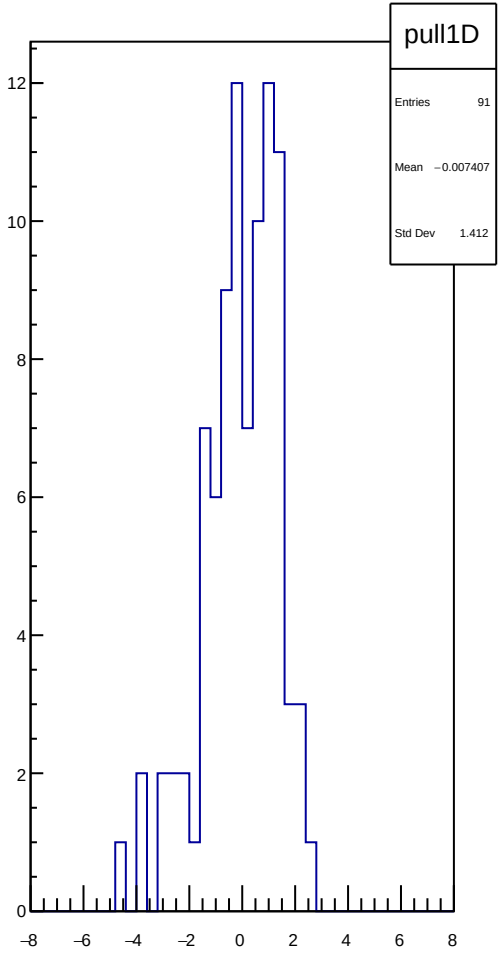

pull1D
Entries 91
Mean 0.008442
Std Dev 1.506

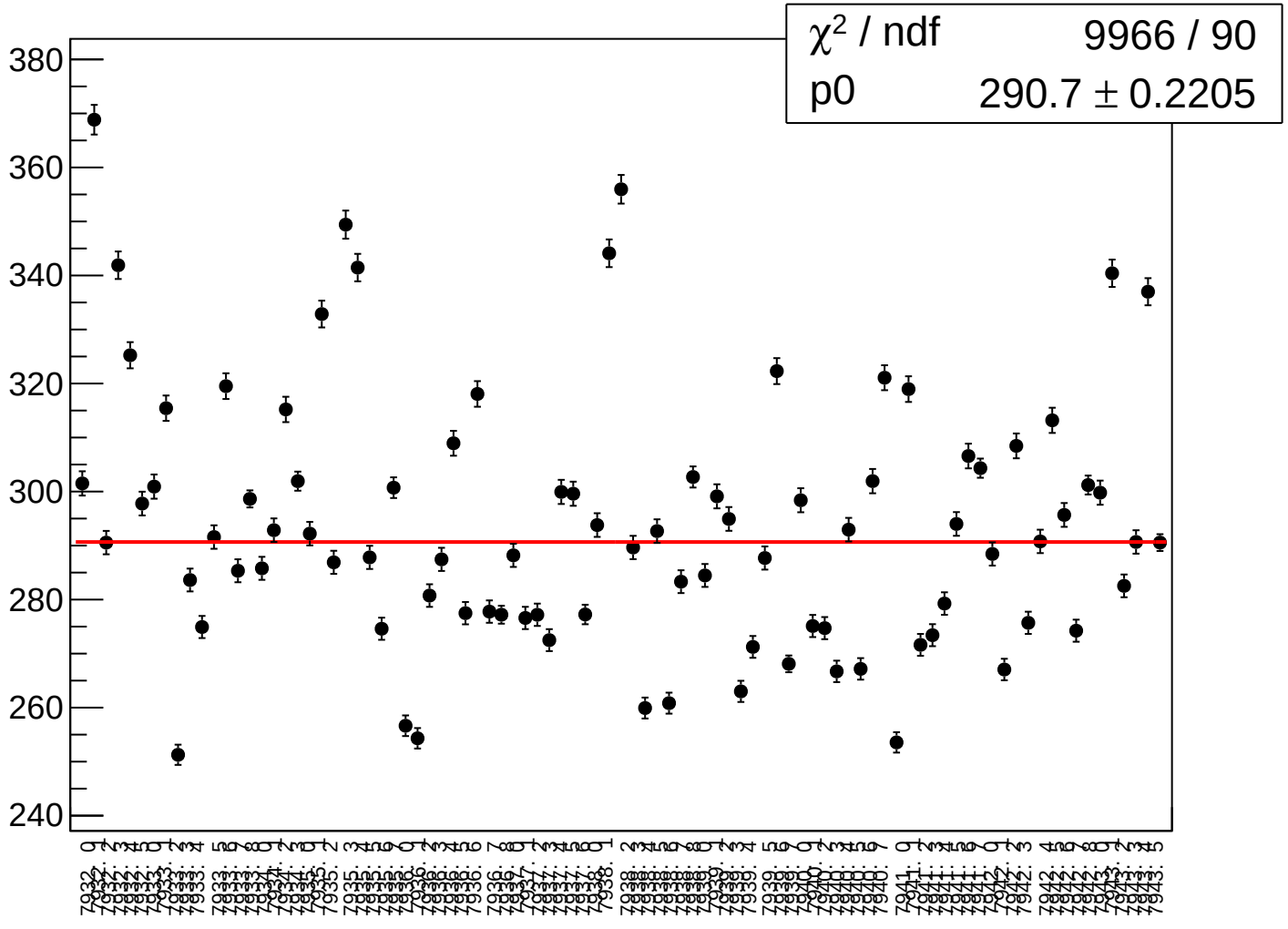

asym_bpm0l02WS_rms vs run
χ² / ndf 4085 / 90
p0 276.5 ± 0.2094
340
320
300
280
260
240

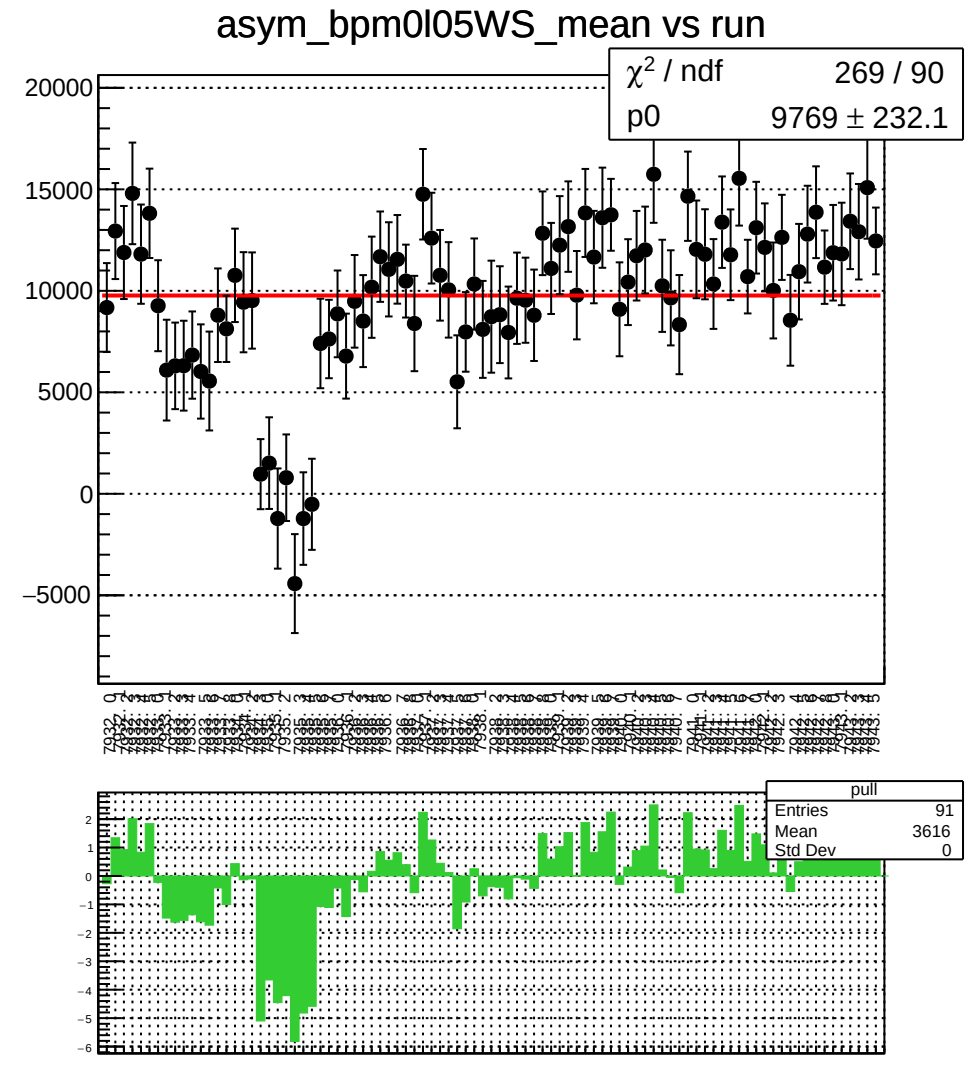

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 207.5 / 90
p0 7908 ± 505.8
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 180.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.1346
Std Dev 1.504
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

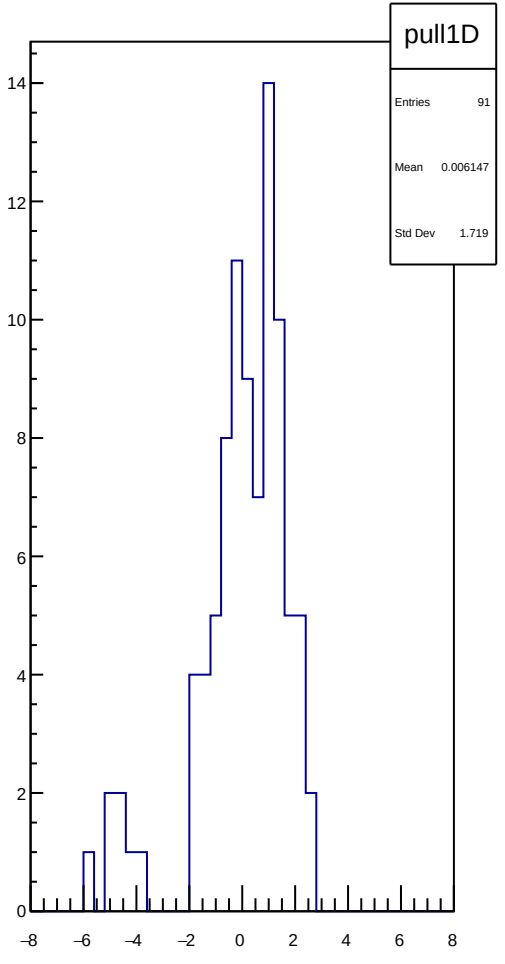

asym_bpm0l03WS_rms vs run
χ^2 / ndf 9.396e+05 / 90
p0 321.6 ± 0.3577
7000
6000
5000
4000
3000
2000
1000

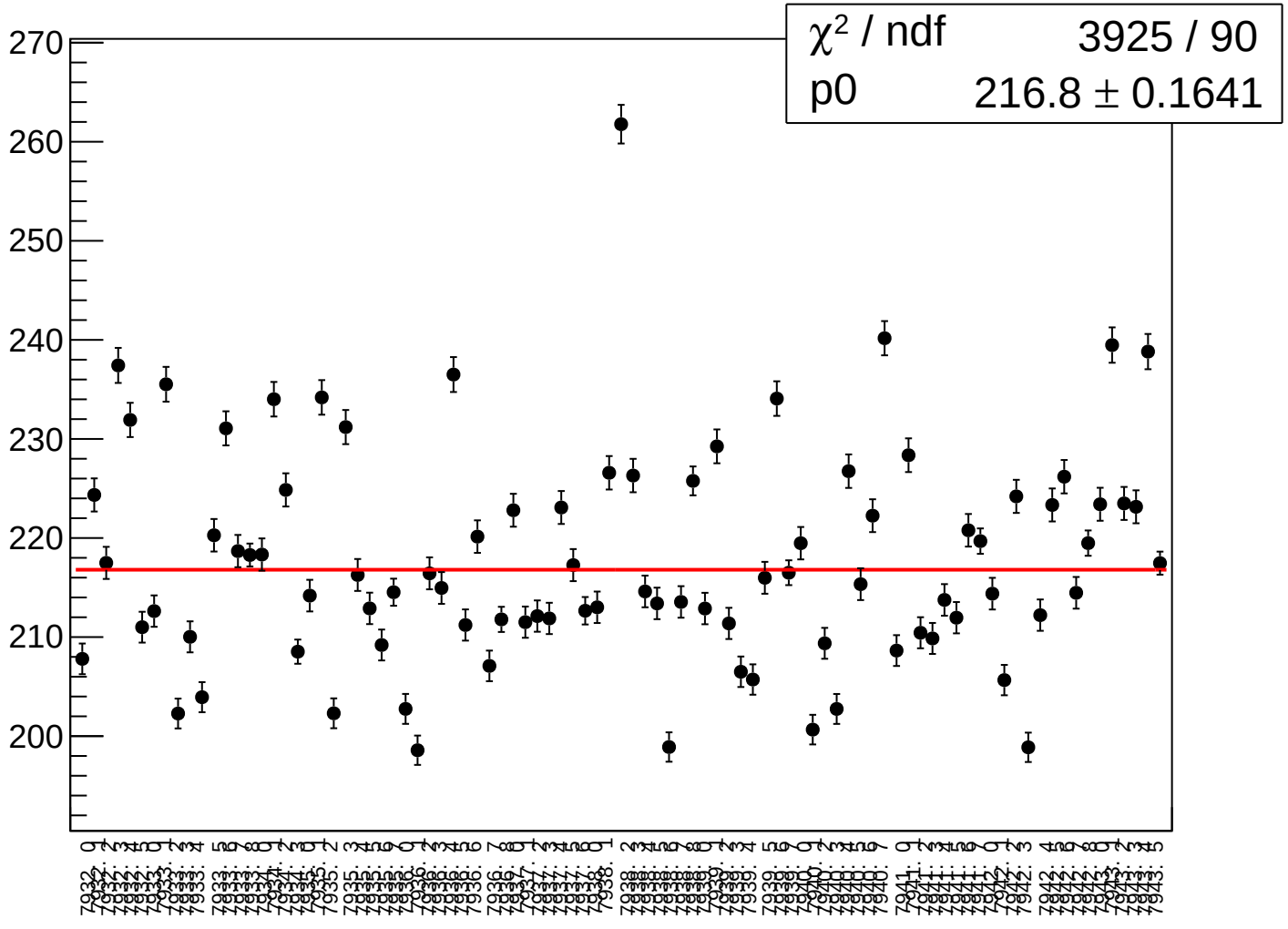

asym_bpm0l04WS_mean vs run
χ² / ndf 181.4 / 90
p0 9831 ± 311.8
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean −2438
Std Dev 0
3
2
1
0
−1
−2
−3
−4

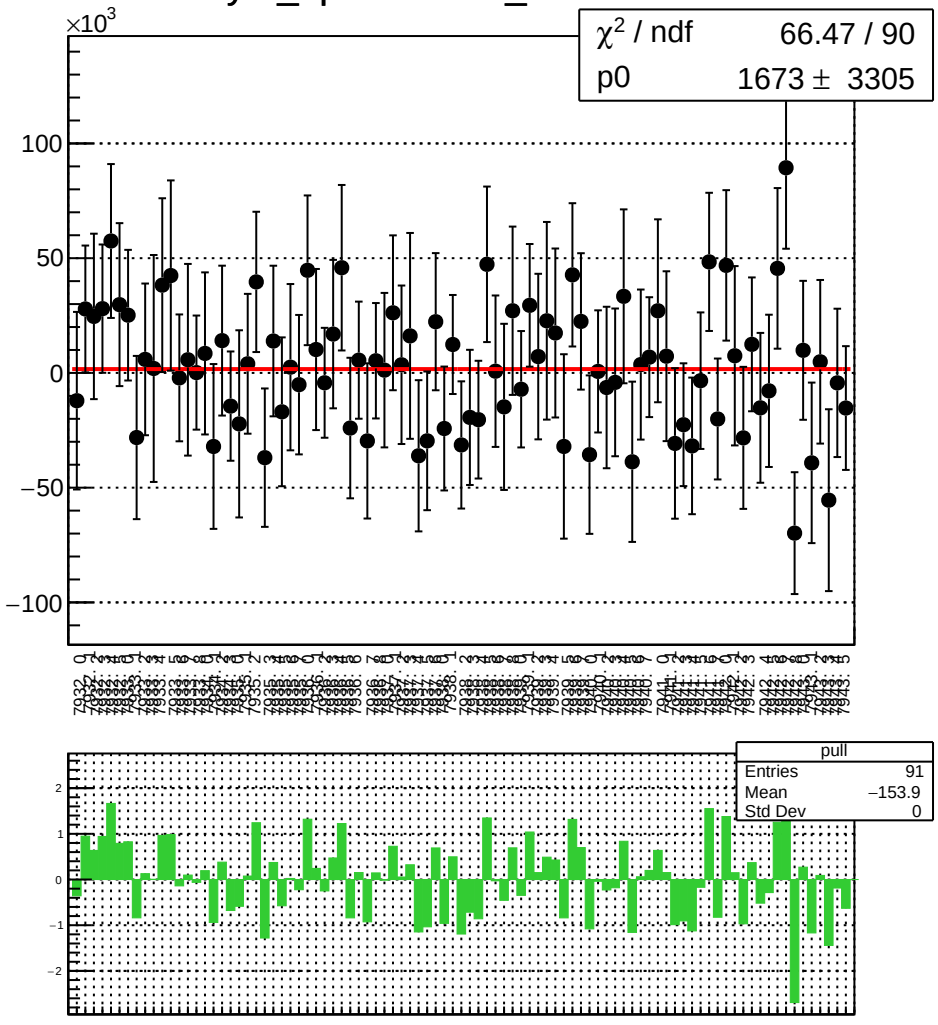

pull1D
Entries 91
Mean −0.007407
Std Dev 1.412
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

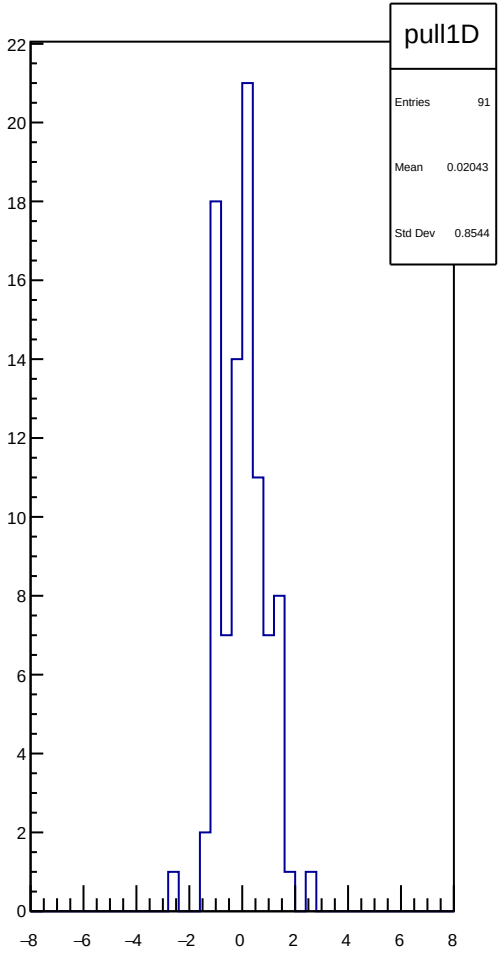

asym_bpm0l04WS_rms vs run
χ² / ndf 9966 / 90
p0 290.7 ± 0.2205
380
360
340
320
300
280
260
240

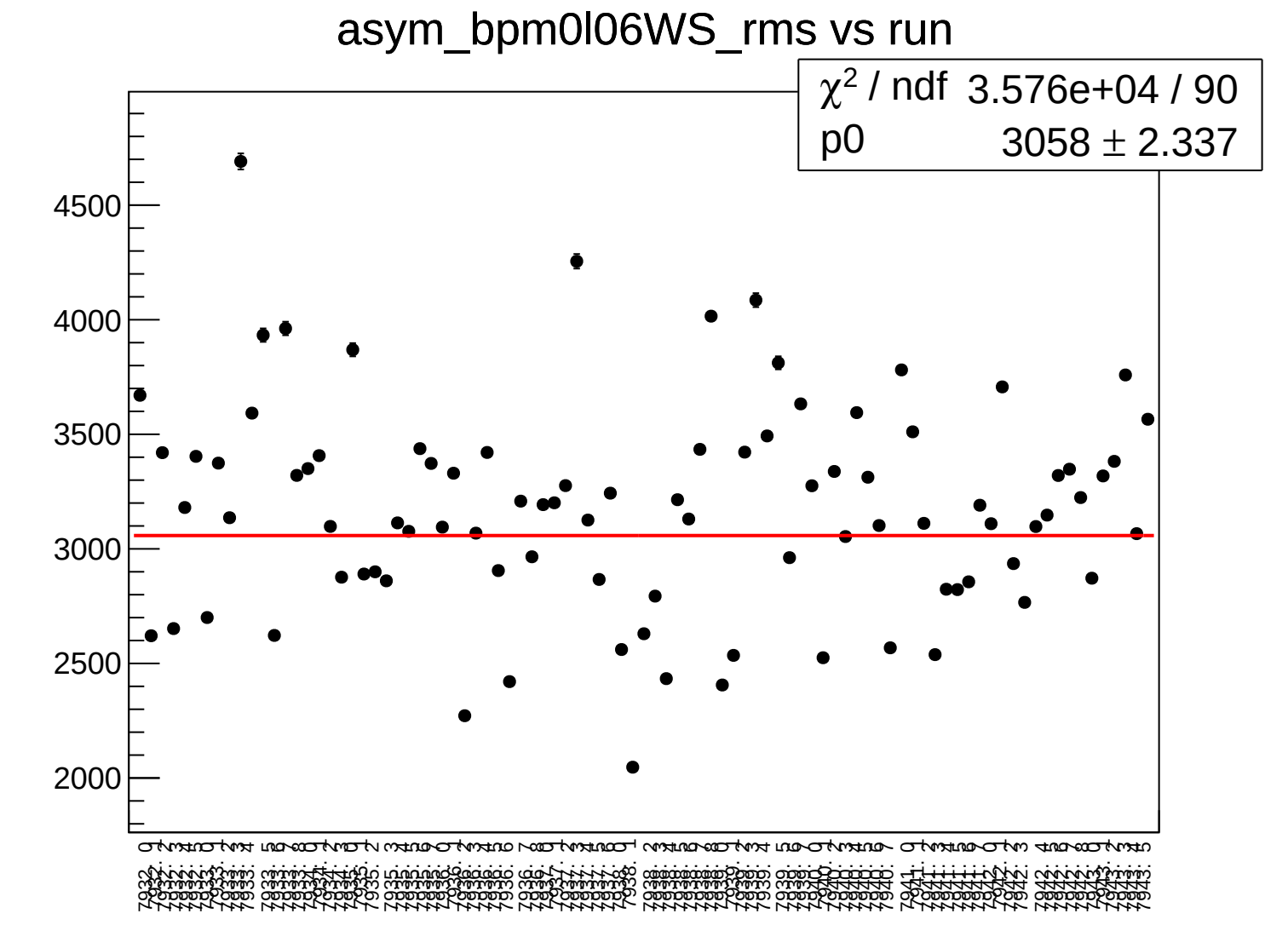

asym_bpm0l05WS_mean vs run
χ² / ndf 269 / 90
p0 9769 ± 232.1
pull
Entries 91
Mean 3616
Std Dev 0

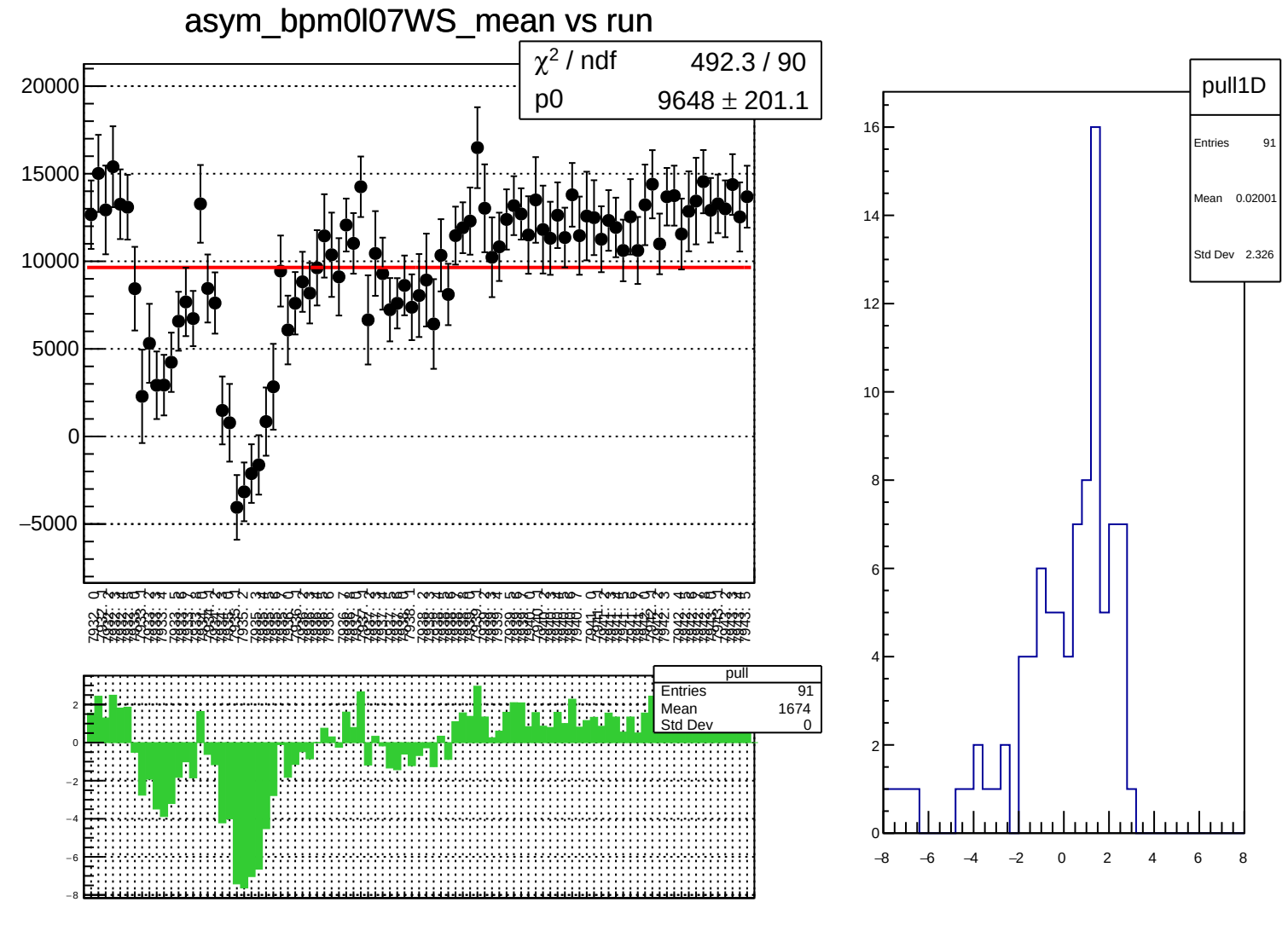

pull1D
Entries 91
Mean 0.006147
Std Dev 1.719

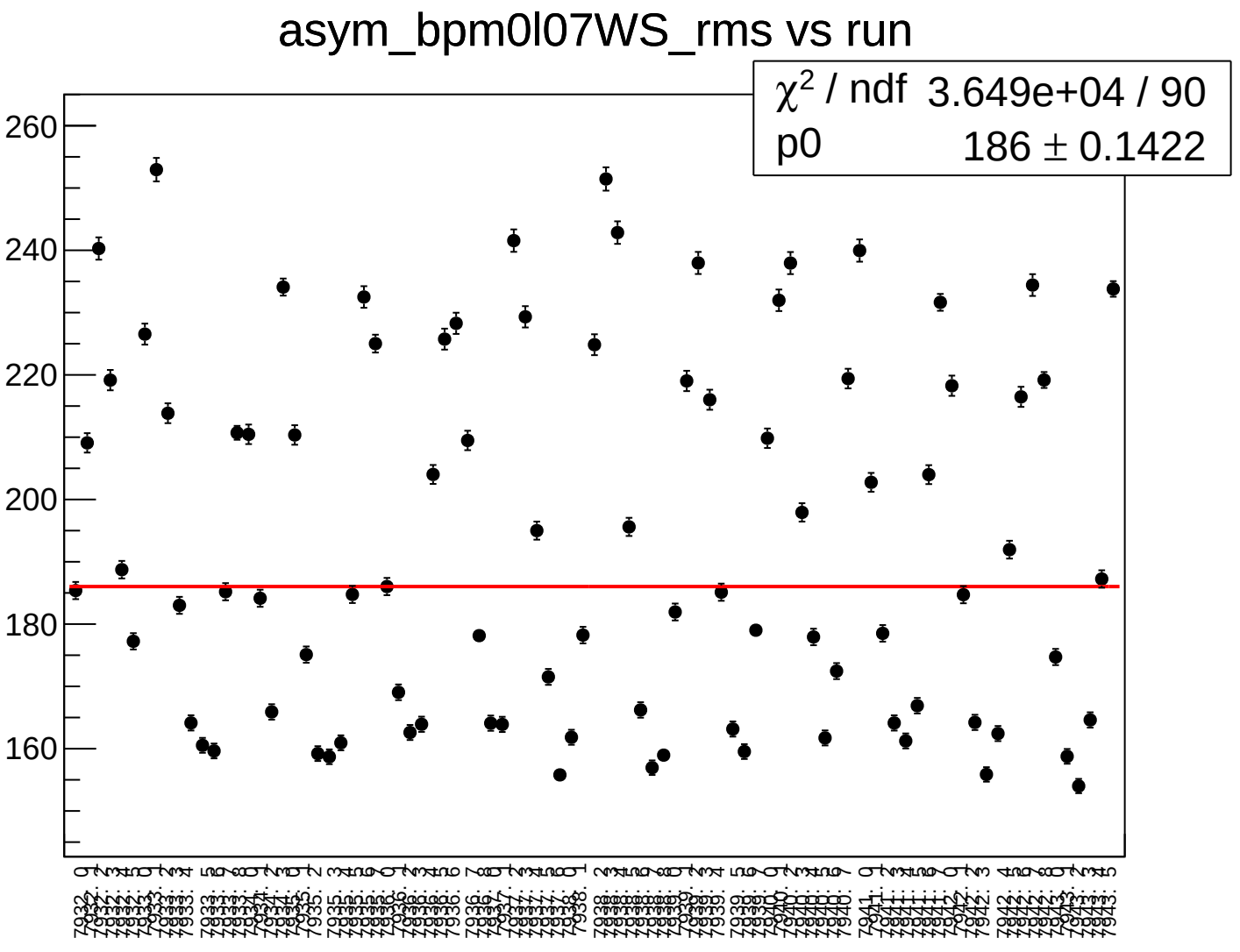

asym_bpm0l05WS_rms vs run
χ² / ndf 3925 / 90
p0 216.8 ± 0.1641
270
260
250
240
230
220
210
200

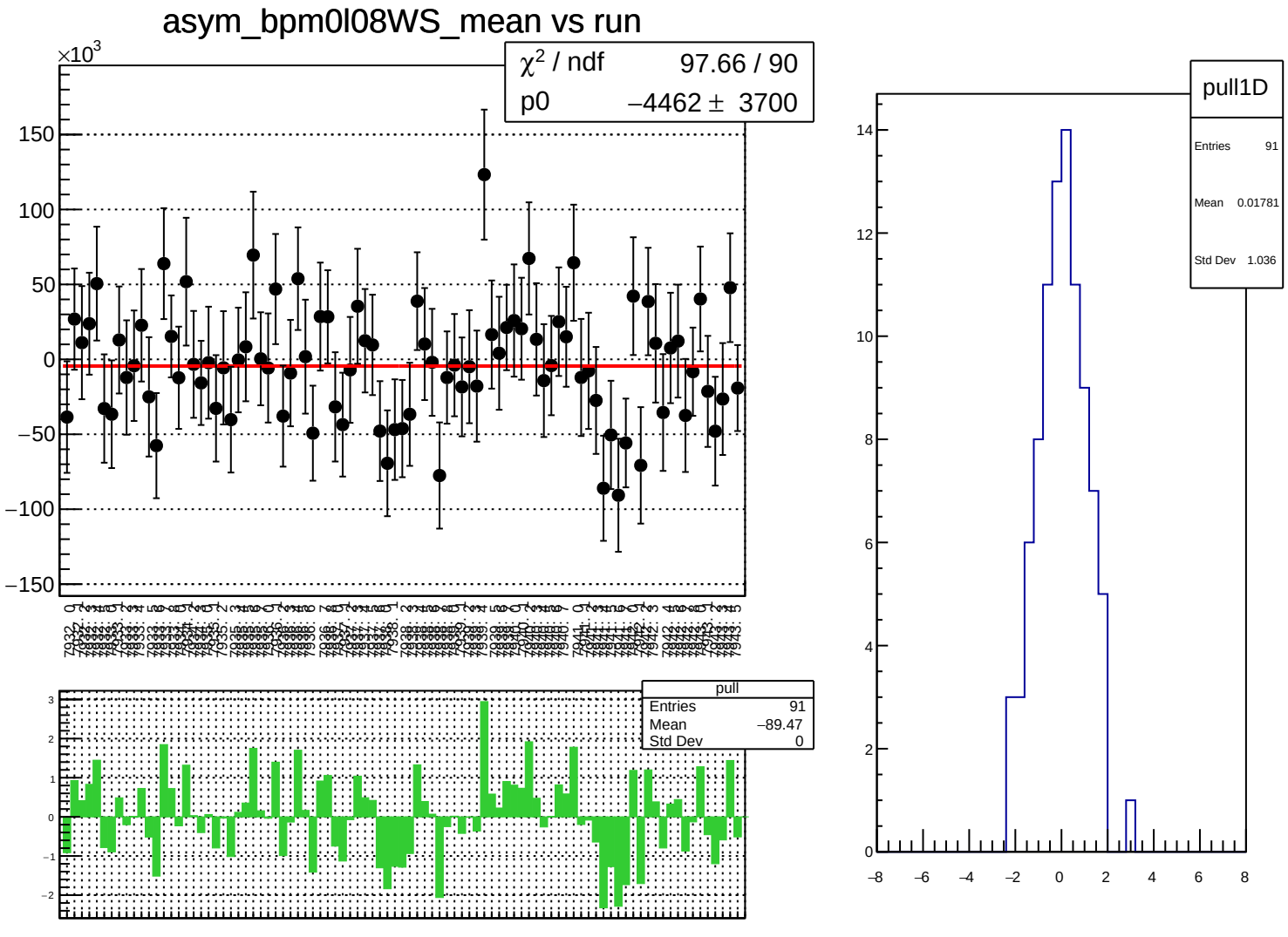

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 66.47 / 90
p0 1673 ± 3305
100
50
0
−50
−100
pull
Entries 91
Mean −153.9
Std Dev 0
2
1
0
−1
−2

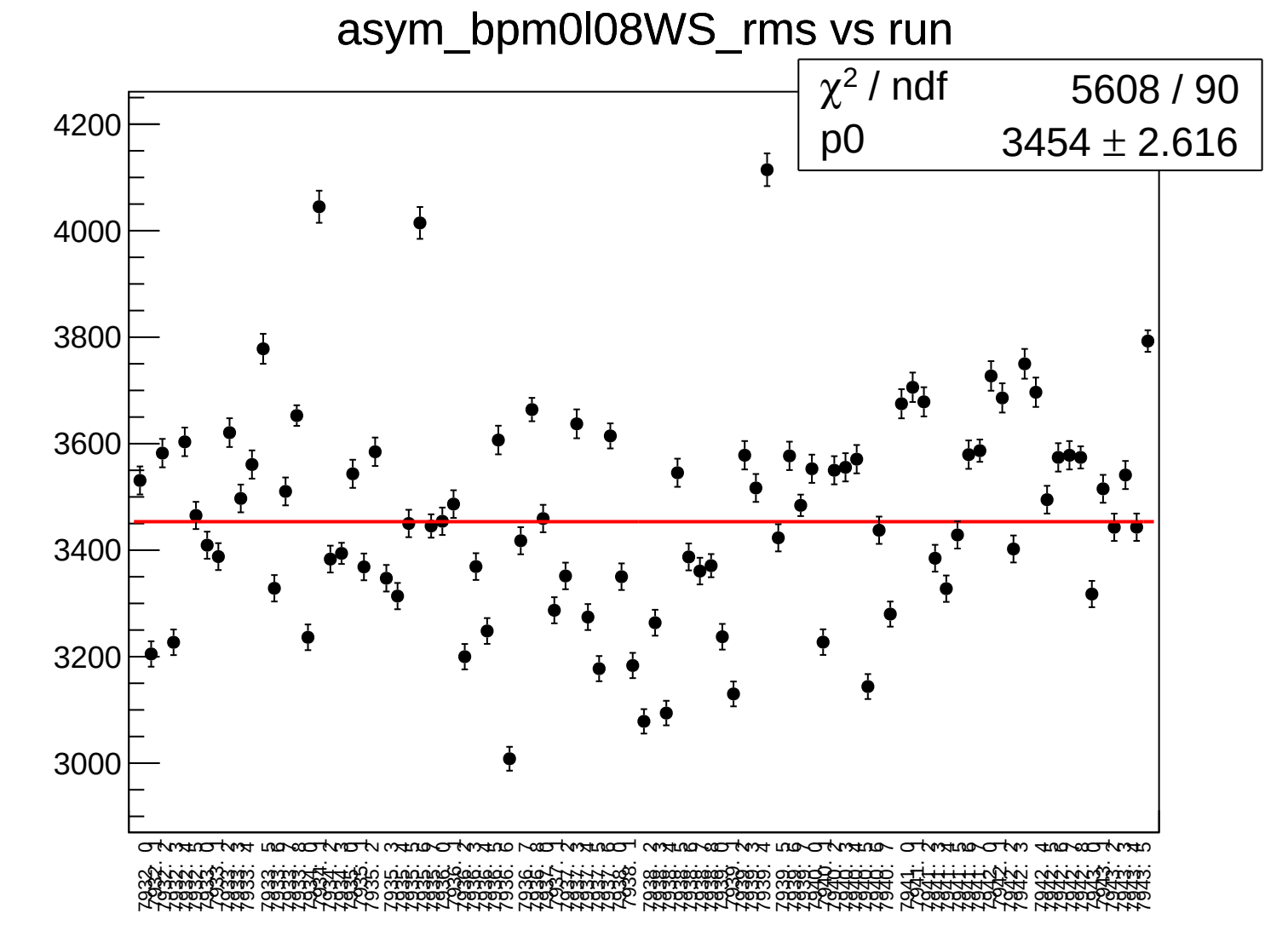

pull1D
Entries 91
Mean 0.02043
Std Dev 0.8544
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

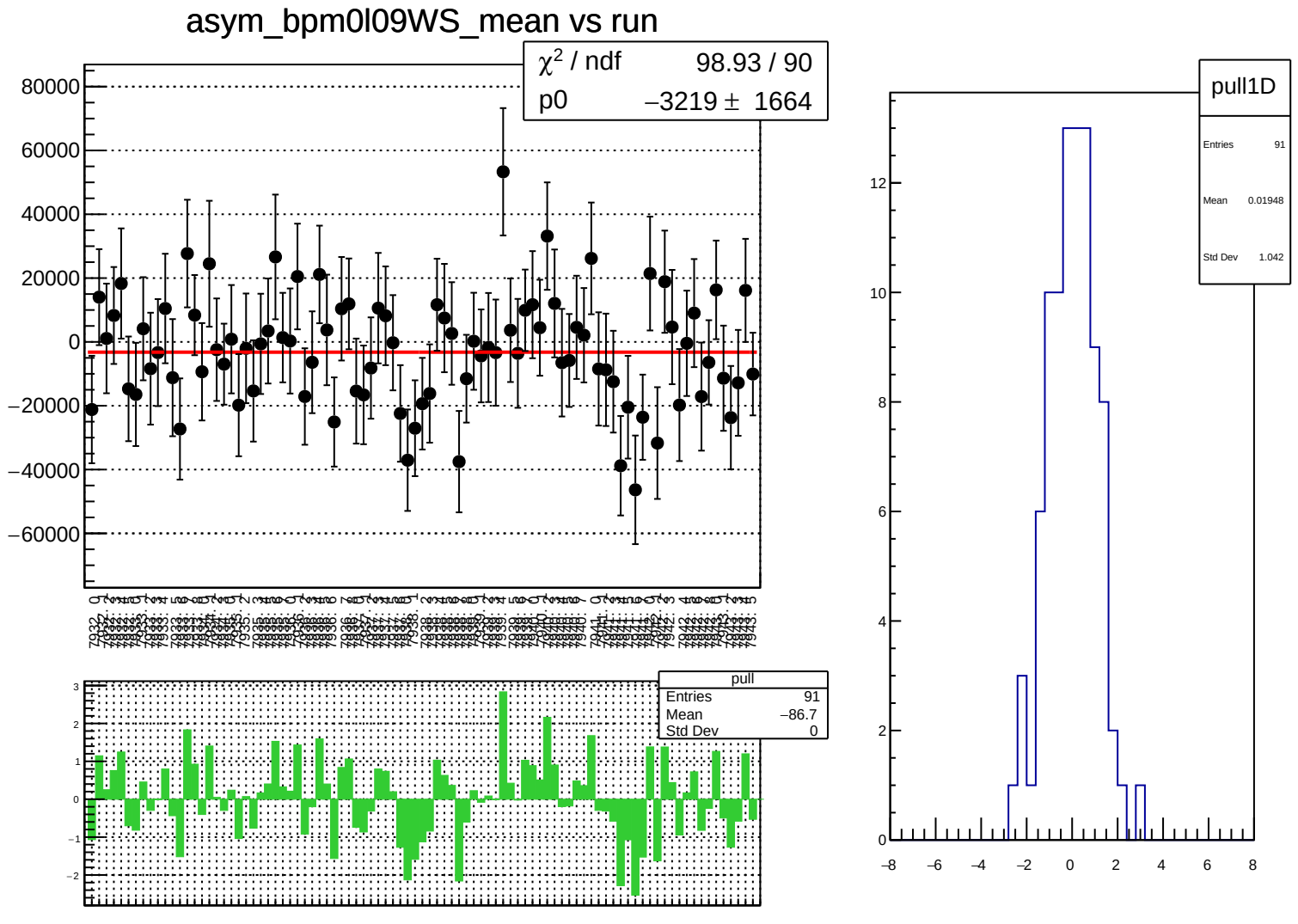

asym_bpm0l06WS_rms vs run
χ^2 / ndf 3.576e+04 / 90
p0 3058 ± 2.337
4500
4000
3500
3000
2500
2000

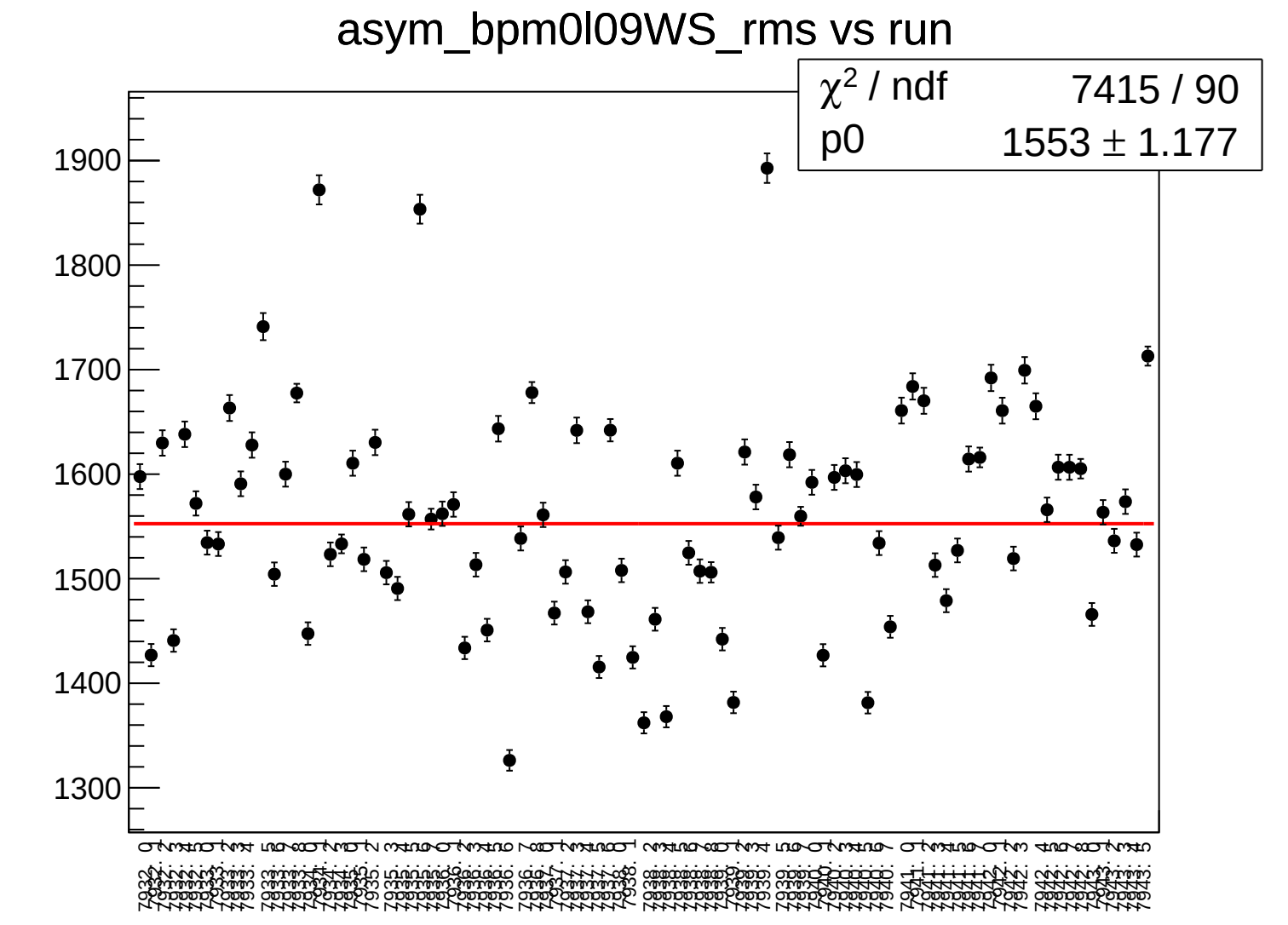

asym_bpm0l07WS_mean vs run
χ² / ndf 492.3 / 90
p0 9648 ± 201.1
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 1674
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 91
Mean 0.02001
Std Dev 2.326
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

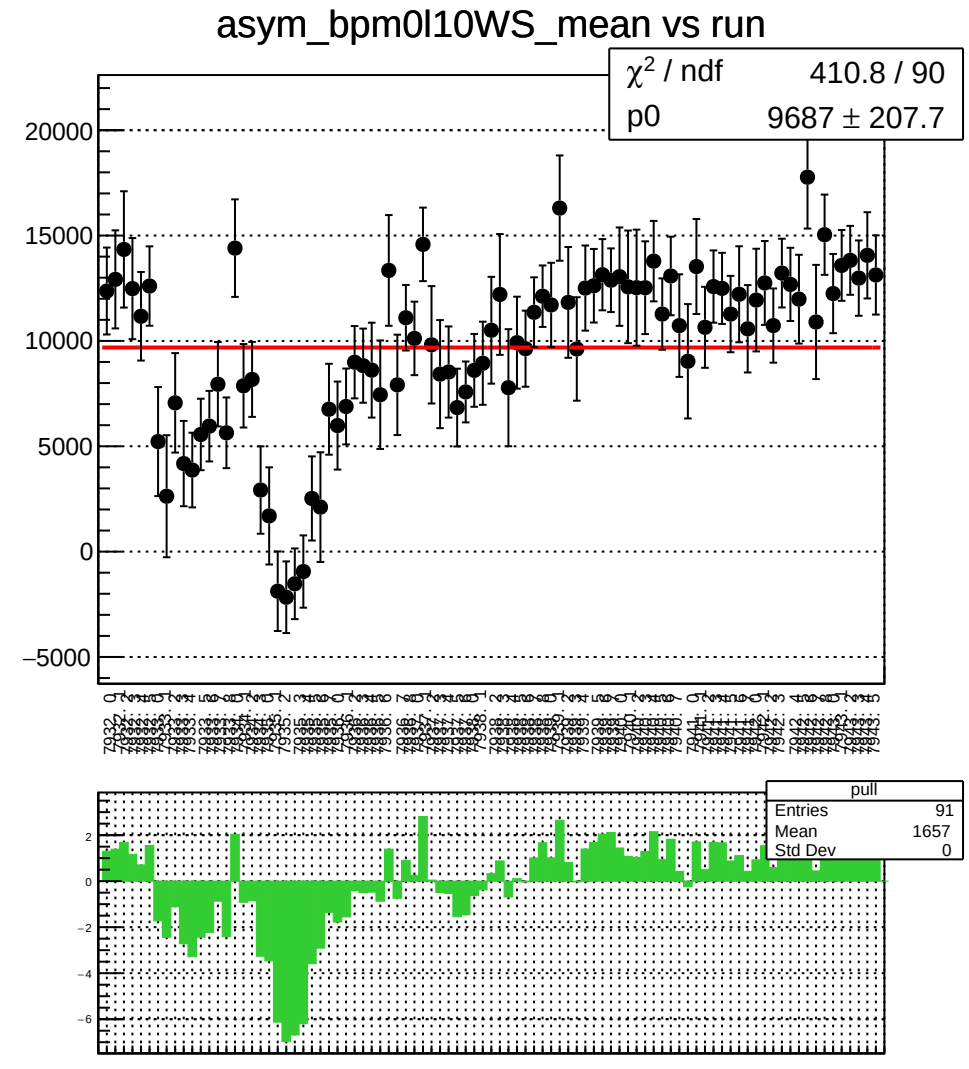

asym_bpm0l07WS_rms vs run
χ² / ndf 3.649e+04 / 90
p0 186 ± 0.1422
260
240
220
200
180
160

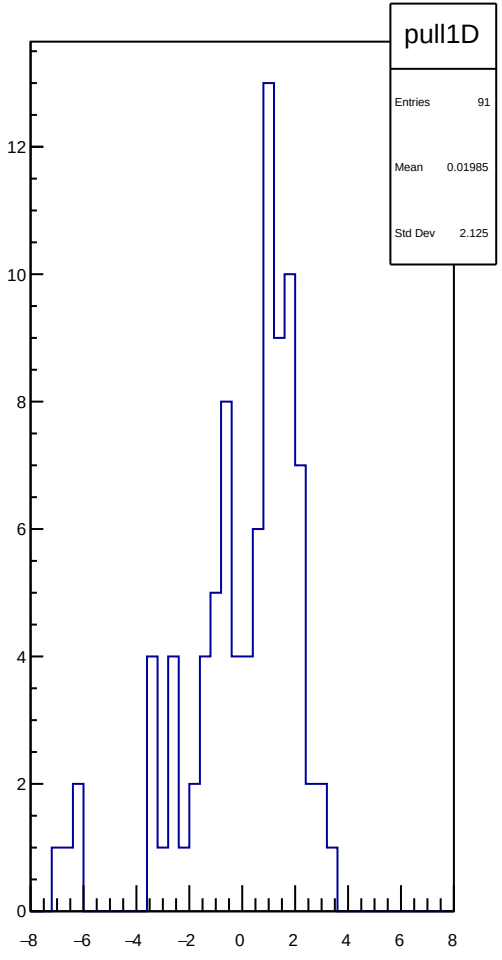

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 97.66 / 90
p0 −4462 ± 3700
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −89.47
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01781
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

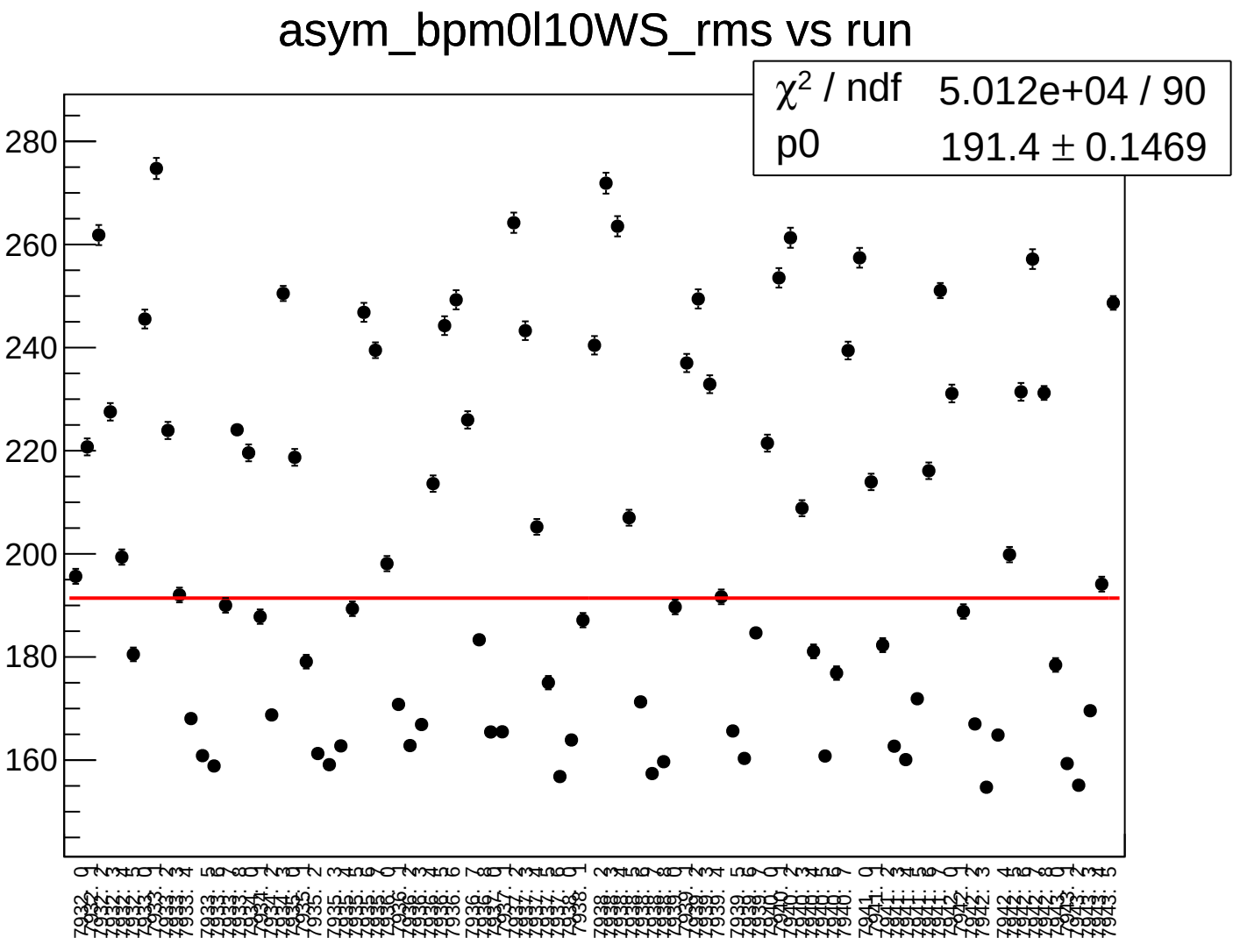

asym_bpm0l08WS_rms vs run
χ^2 / ndf 5608 / 90
p0 3454 ± 2.616
4200
4000
3800
3600
3400
3200
3000

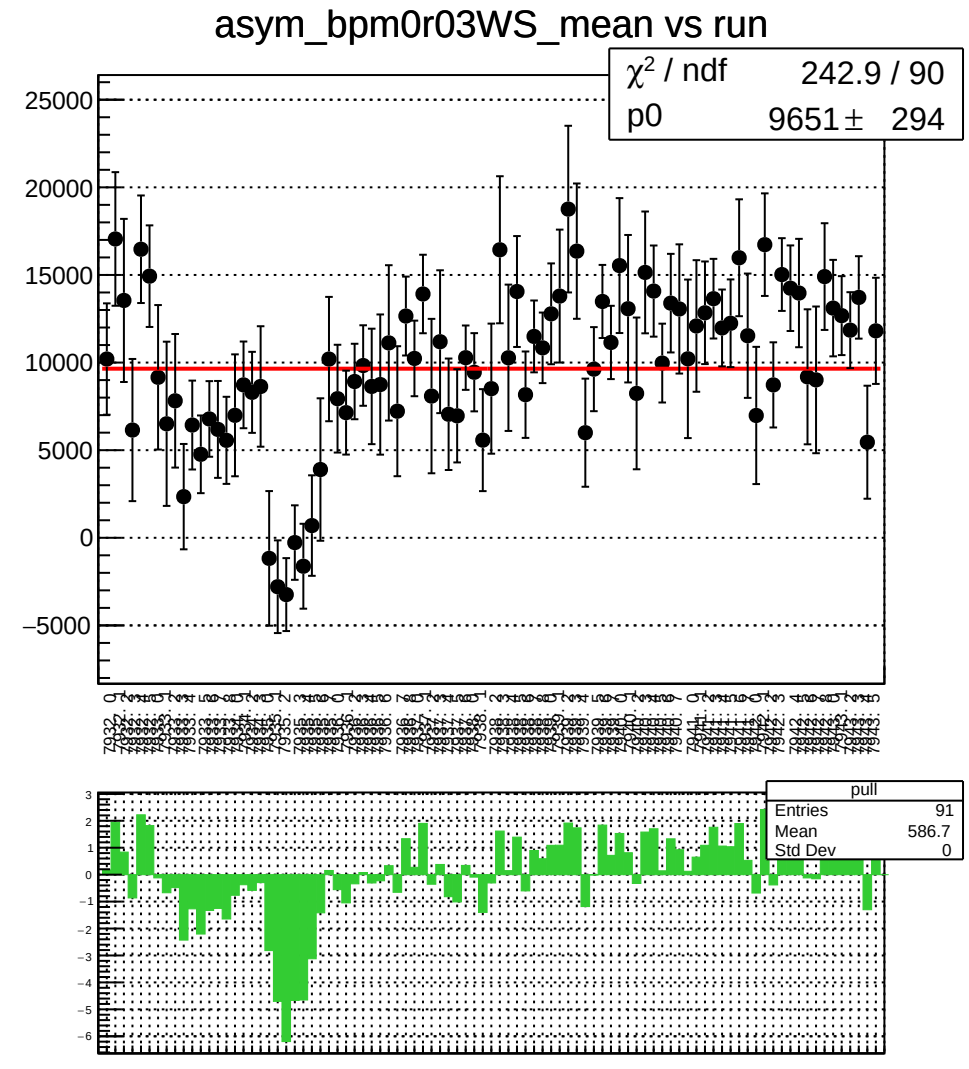

asym_bpm0l09WS_mean vs run
χ² / ndf 98.93 / 90
p0 −3219 ± 1664
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −86.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01948
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

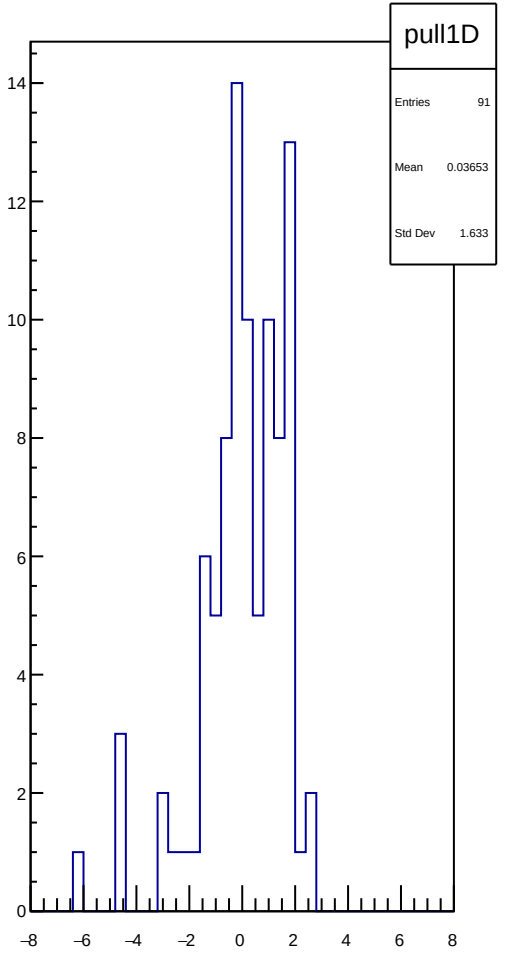

asym_bpm0l09WS_rms vs run
χ² / ndf 7415 / 90
p0 1553 ± 1.177
1900
1800
1700
1600
1500
1400
1300

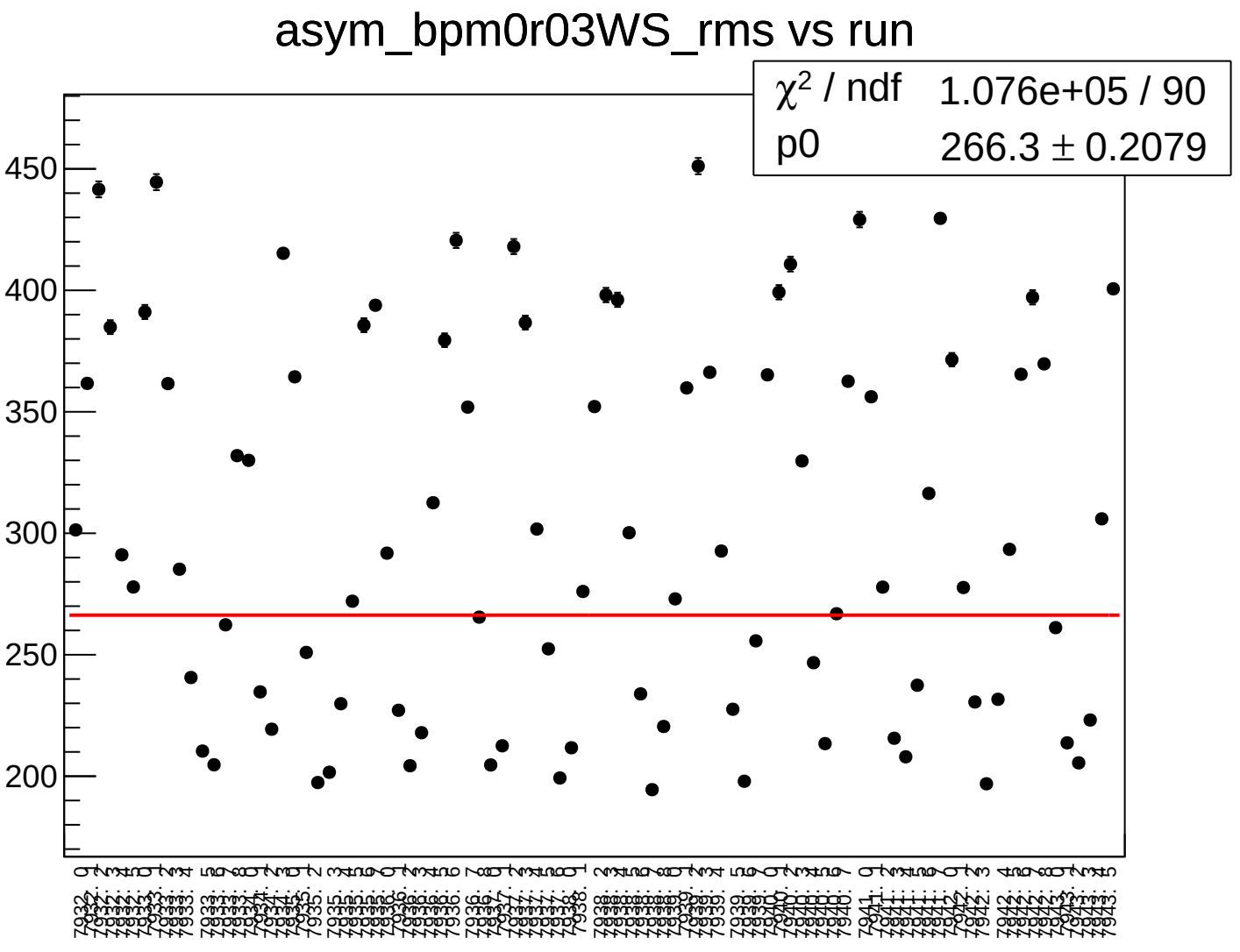

asym_bpm0l10WS_mean vs run
χ² / ndf 410.8 / 90
p0 9687 ± 207.7
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 1657
Std Dev 0
2
0
−2
−4
−6

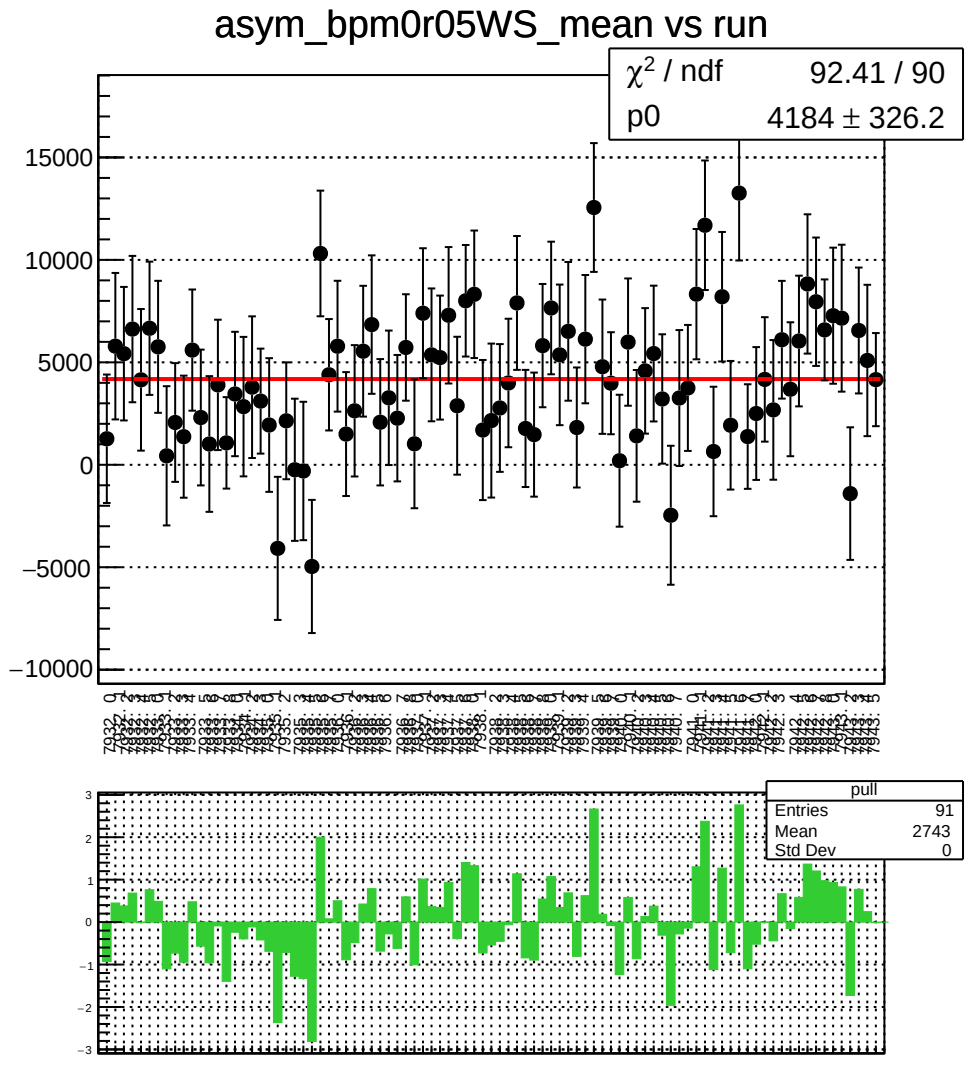

pull1D
Entries 91
Mean 0.01985
Std Dev 2.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

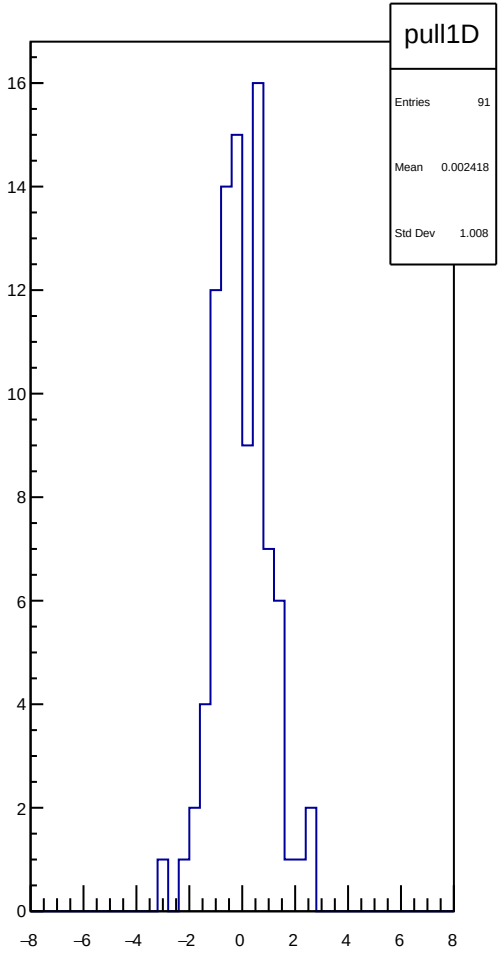

asym_bpm0l10WS_rms vs run
χ^2 / ndf 5.012e+04 / 90
p0 191.4 ± 0.1469
280
260
240
220
200
180
160

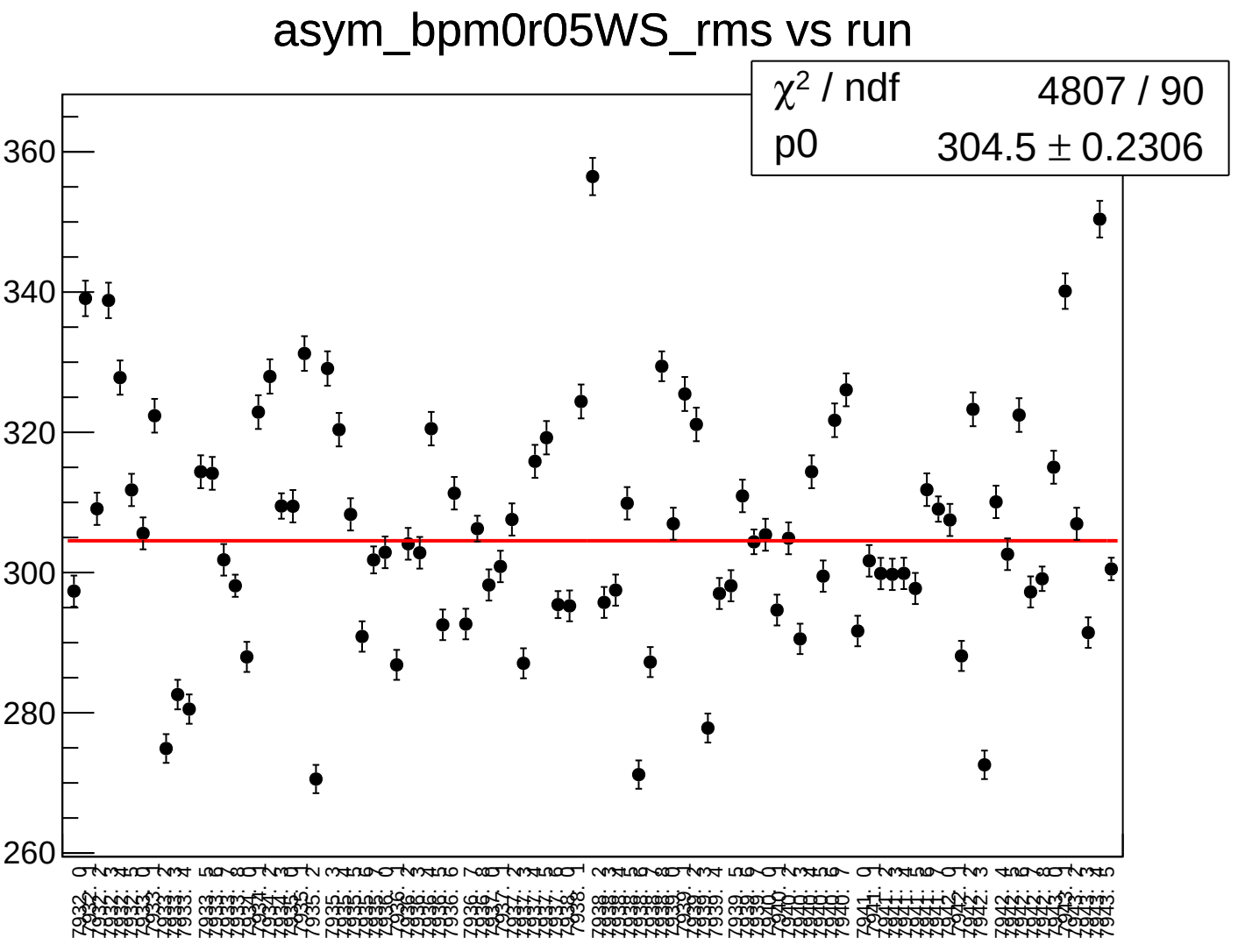

asym_bpm0r03WS_mean vs run
χ² / ndf 242.9 / 90
p0 9651 ± 294
pull
Entries 91
Mean 586.7
Std Dev 0

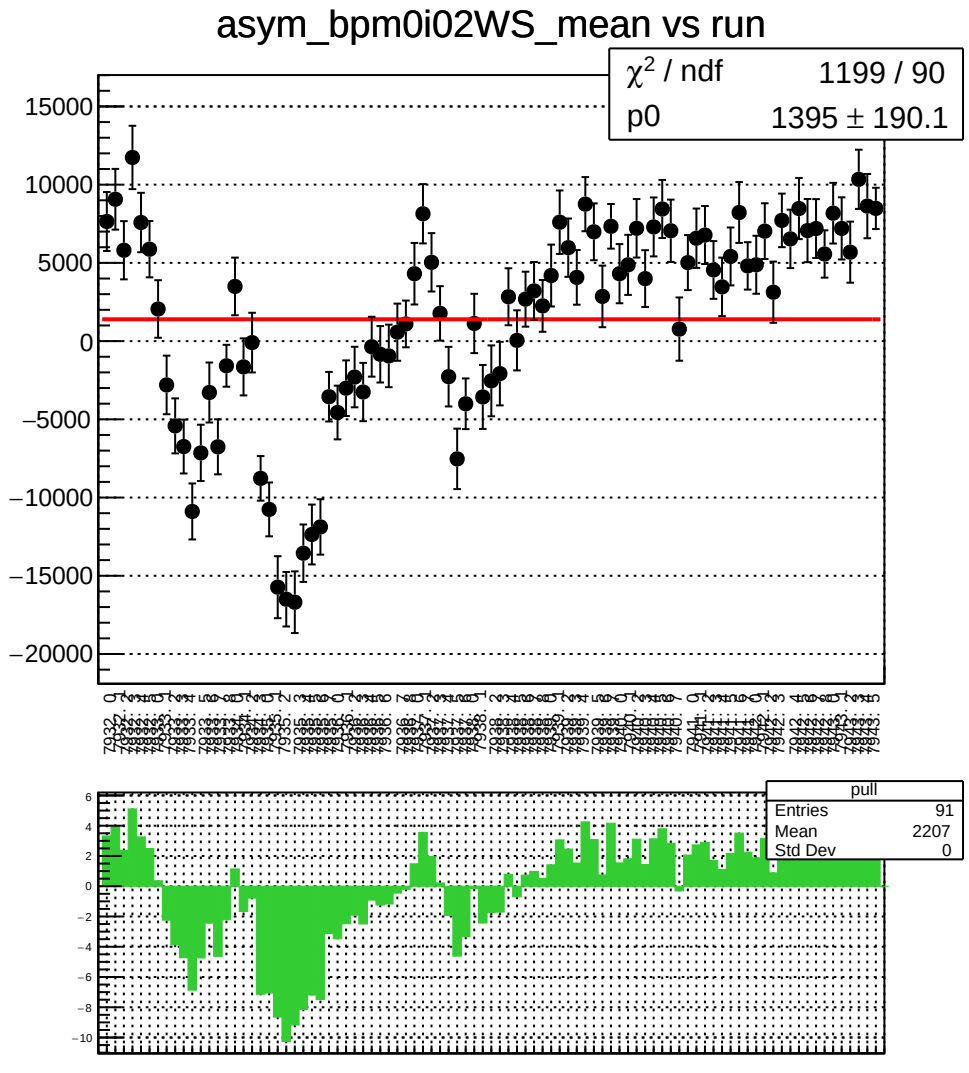

pull1D
Entries 91
Mean 0.03653
Std Dev 1.633

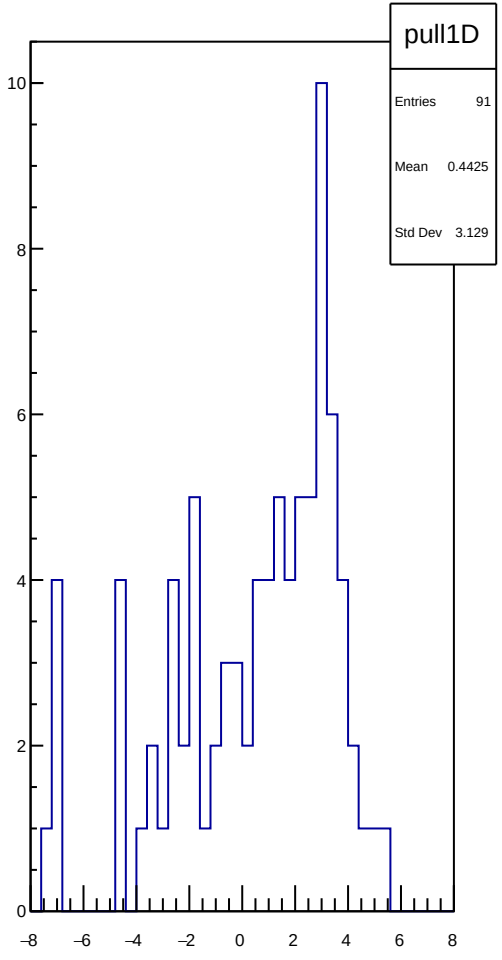

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.076e+05 / 90
p0 266.3 ± 0.2079
450
400
350
300
250
200

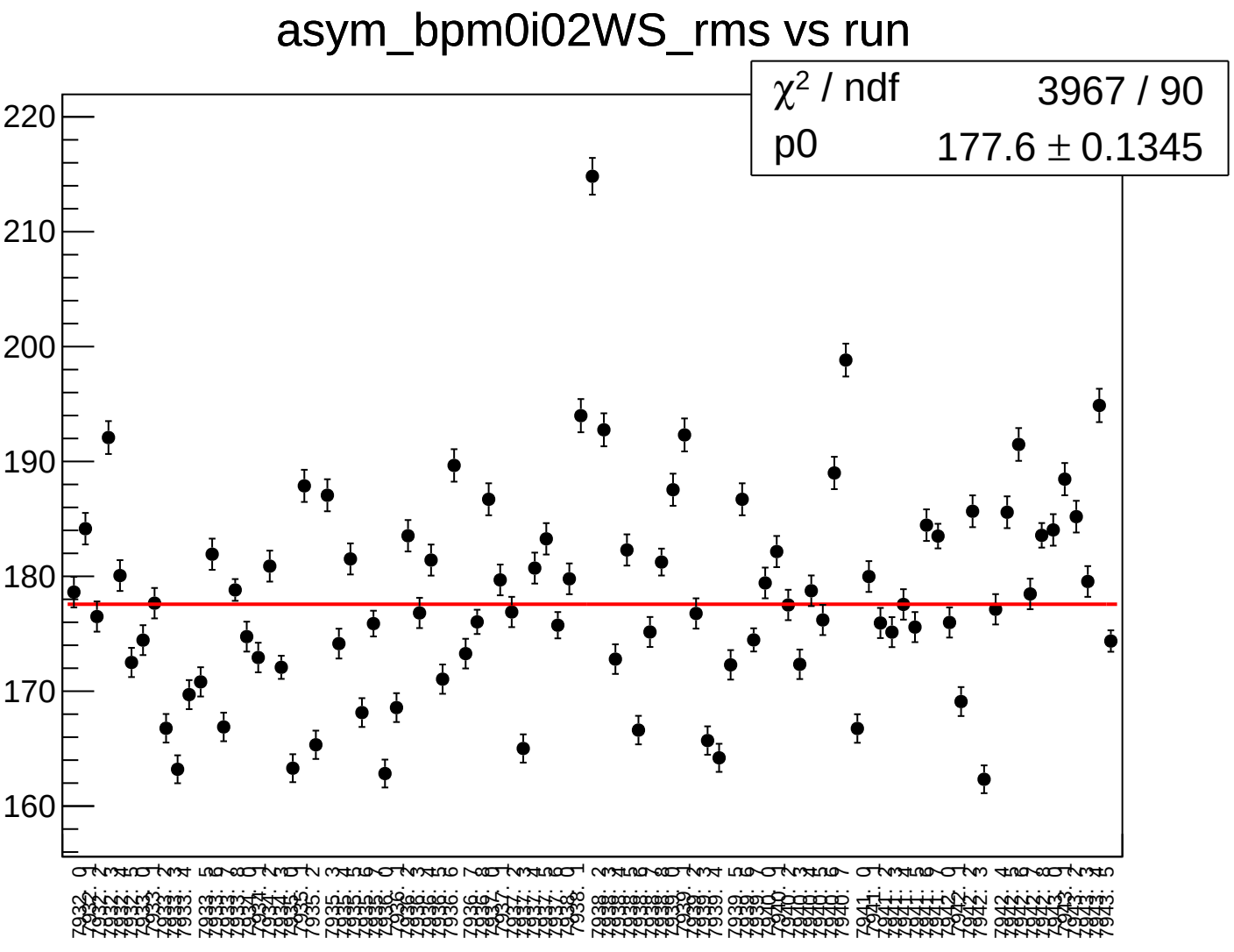

asym_bpm0r05WS_mean vs run
χ² / ndf 92.41 / 90
p0 4184 ± 326.2
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 2743
Std Dev 0
3
2
1
0
−1
−2
−3

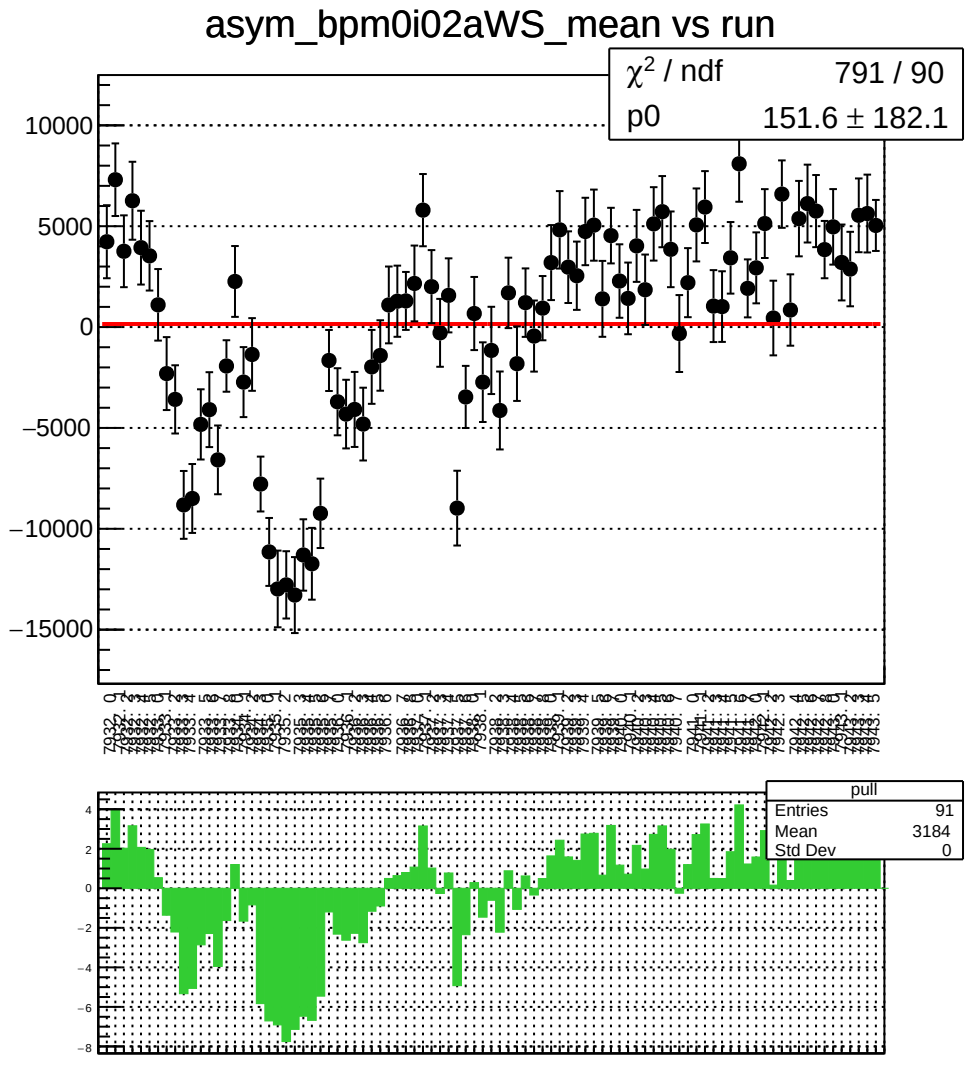

pull1D
Entries 91
Mean 0.002418
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

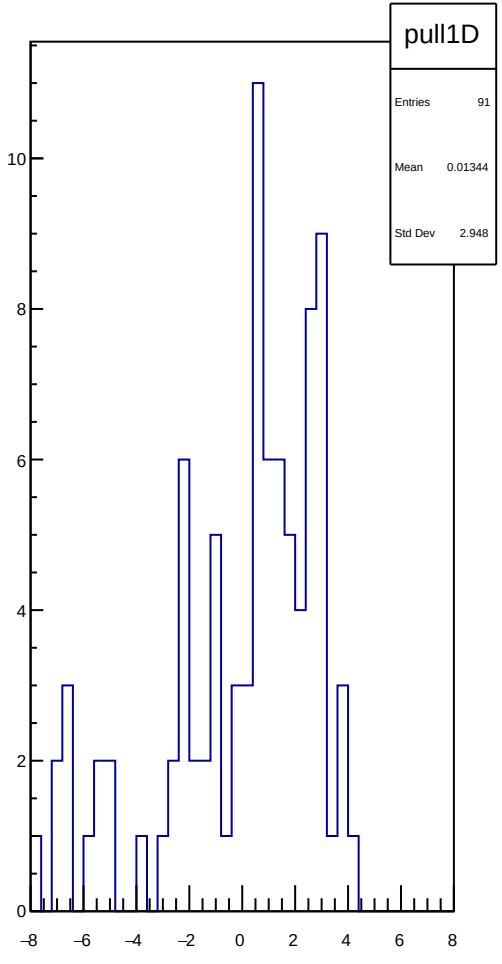

asym_bpm0r05WS_rms vs run
χ² / ndf 4807 / 90
p0 304.5 ± 0.2306
360
340
320
300
280
260

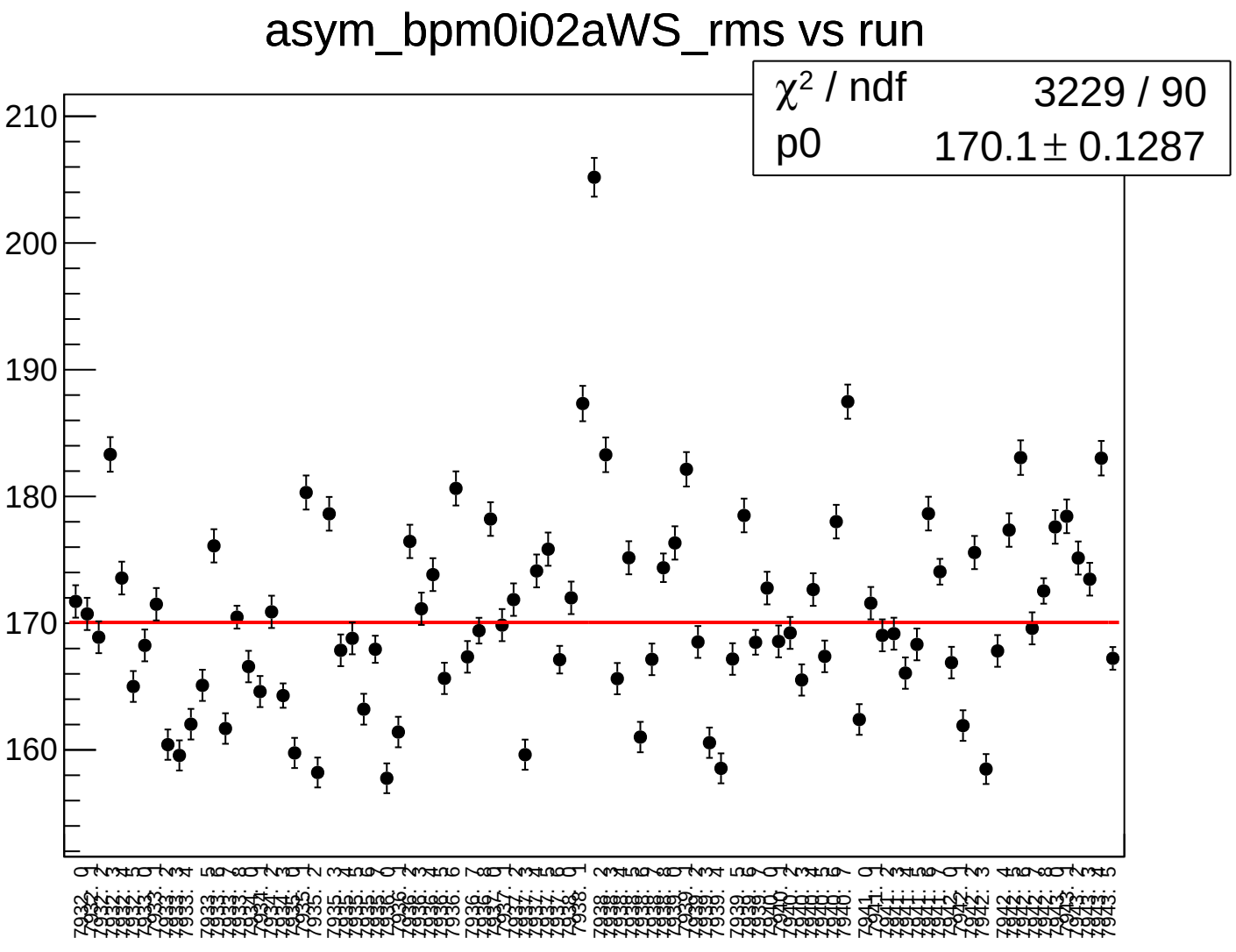

asym_bpm0i02WS_mean vs run
χ² / ndf 1199 / 90
p0 1395 ± 190.1
pull
Entries 91
Mean 2207
Std Dev 0

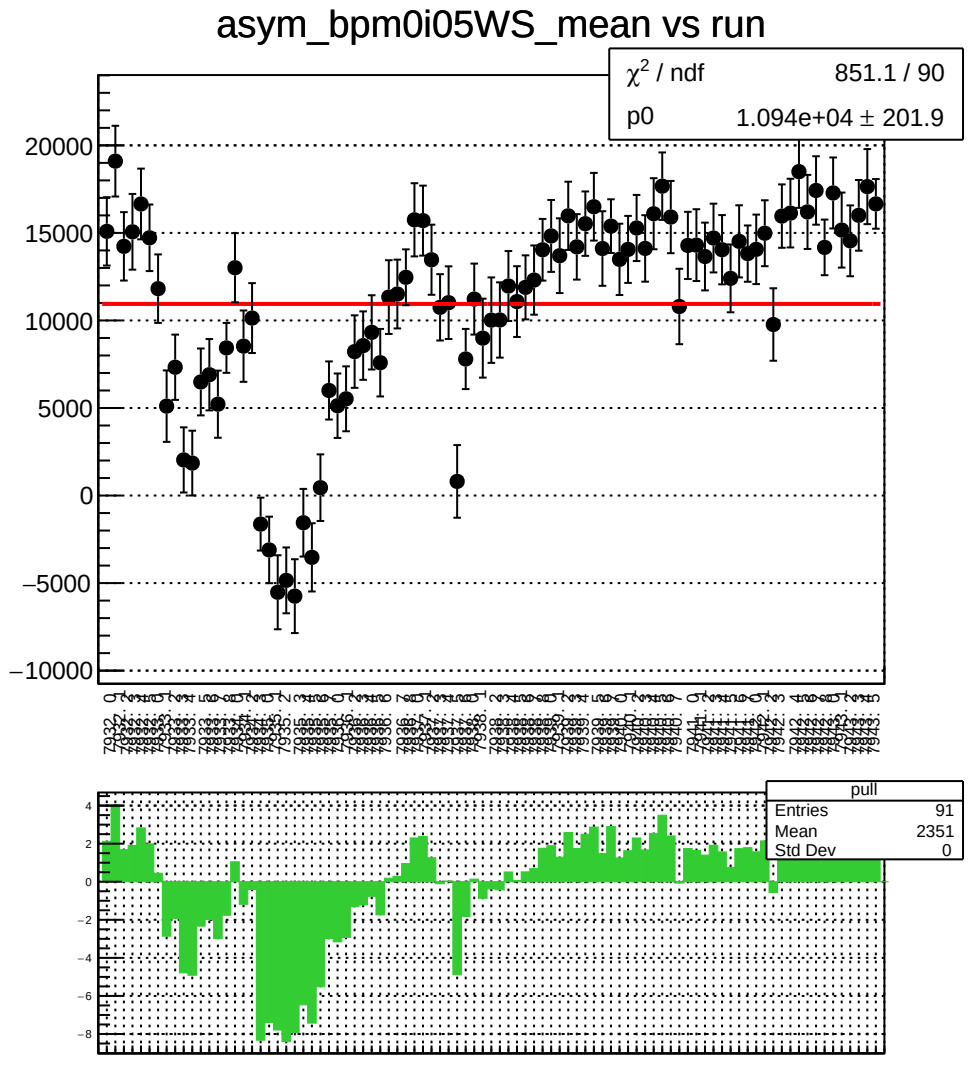

pull1D
Entries 91
Mean 0.4425
Std Dev 3.129

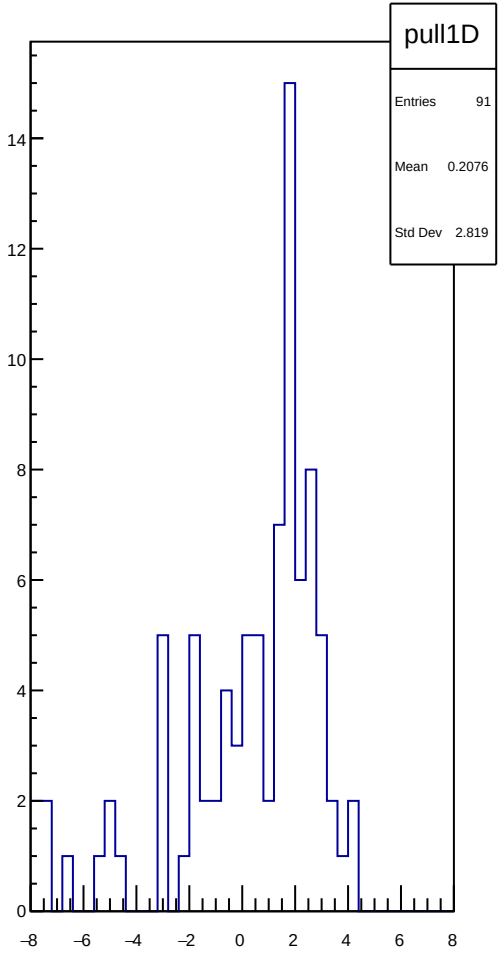

asym_bpm0i02WS_rms vs run
χ² / ndf 3967 / 90
p0 177.6 ± 0.1345
220
210
200
190
180
170
160

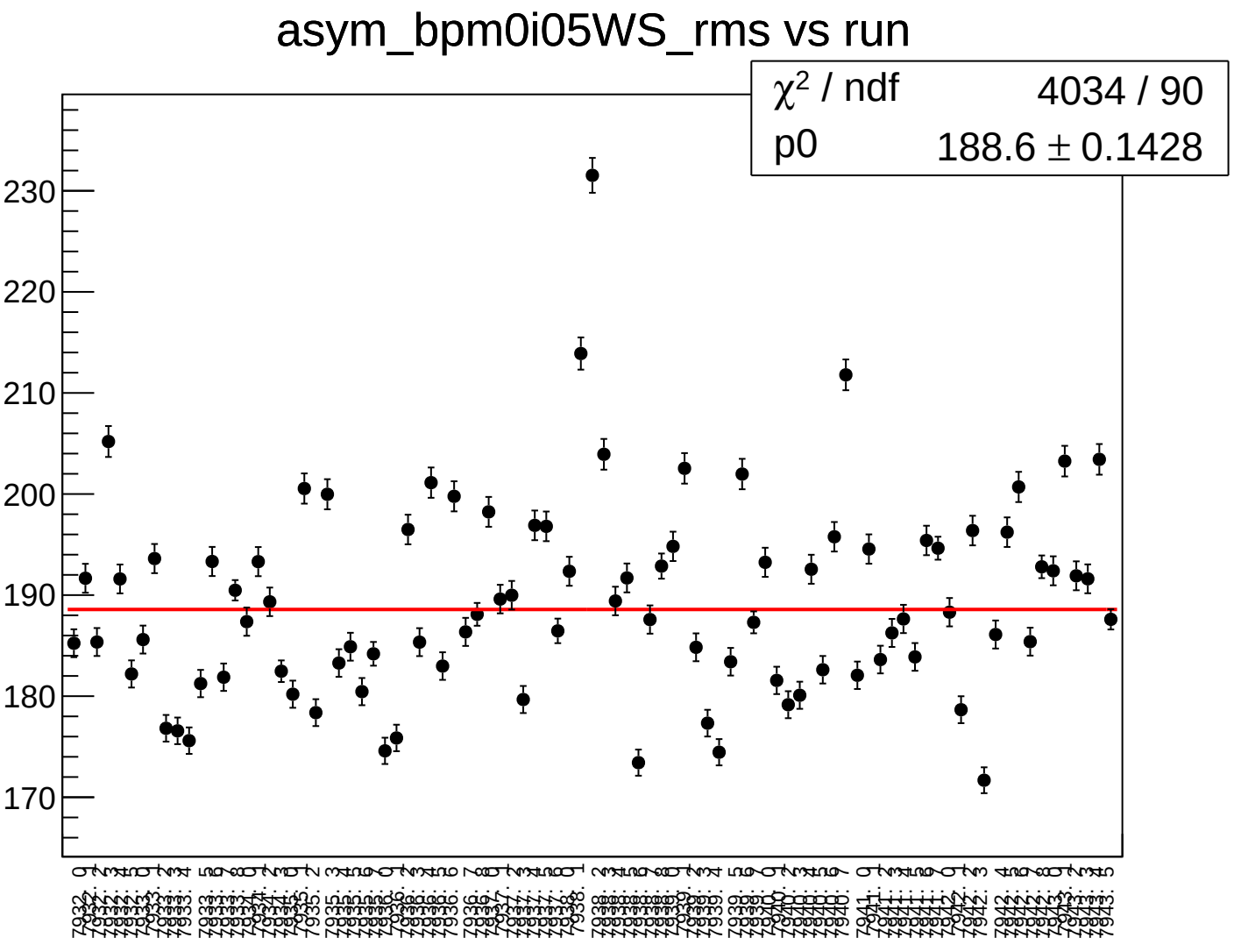

asym_bpm0i02aWS_mean vs run
χ² / ndf 791 / 90
p0 151.6 ± 182.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 3184
Std Dev 0
4
2
0
−2
−4
−6
−8

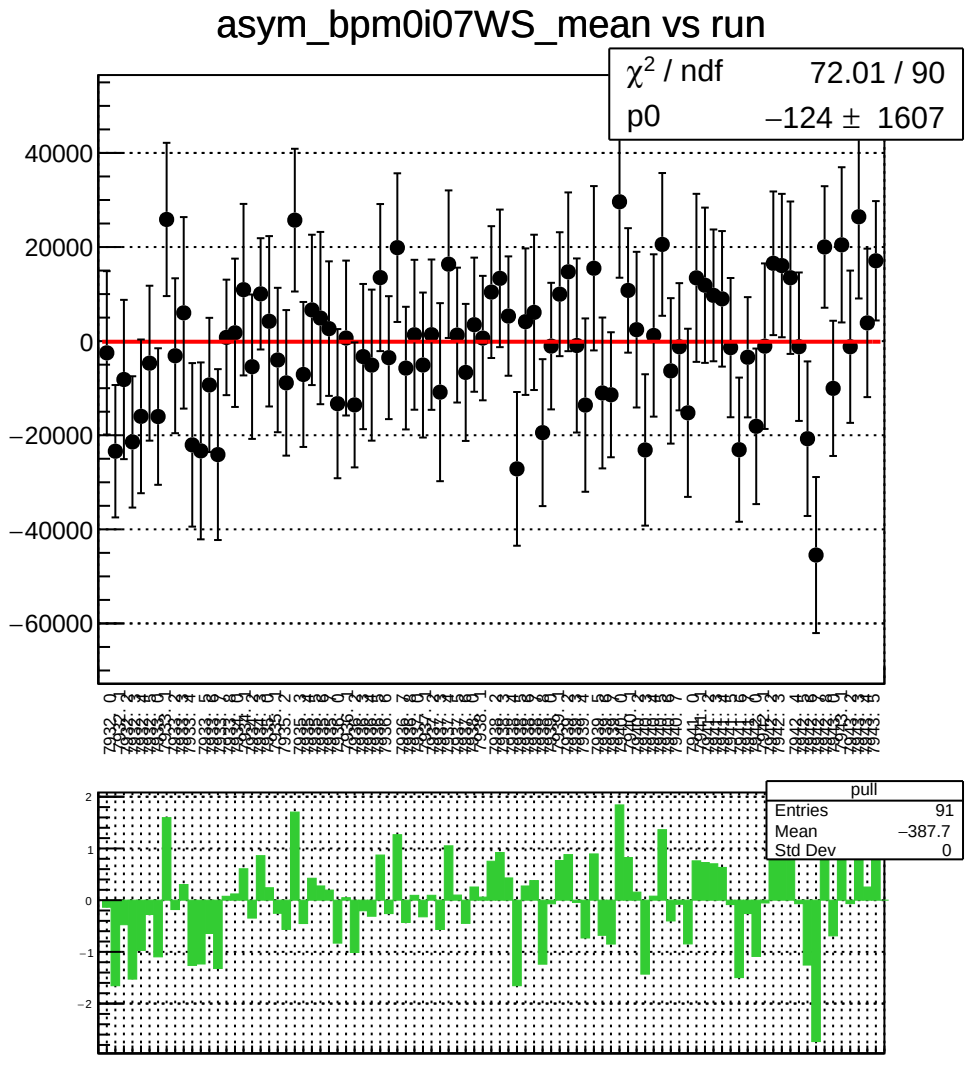

pull1D
Entries 91
Mean 0.01344
Std Dev 2.948
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

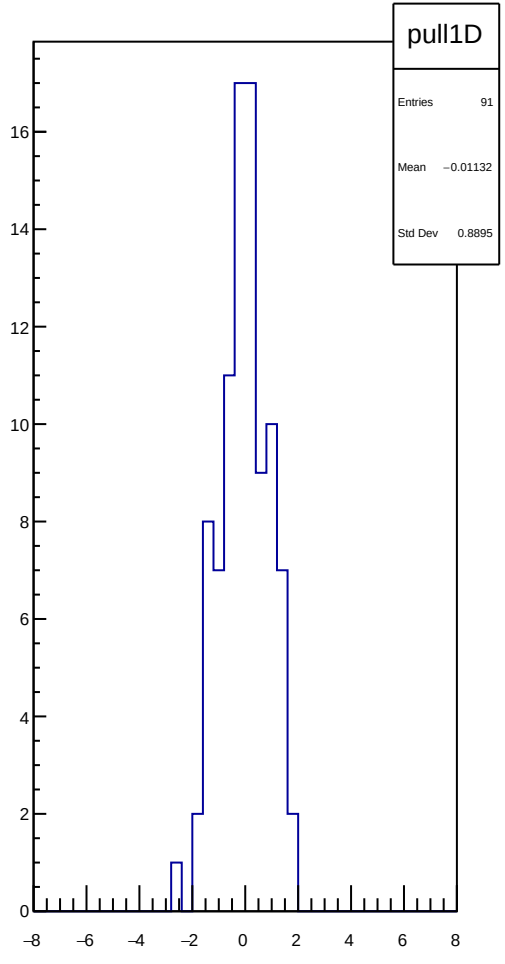

asym_bpm0i02aWS_rms vs run
χ² / ndf 3229 / 90
p0 170.1 ± 0.1287
210
200
190
180
170
160

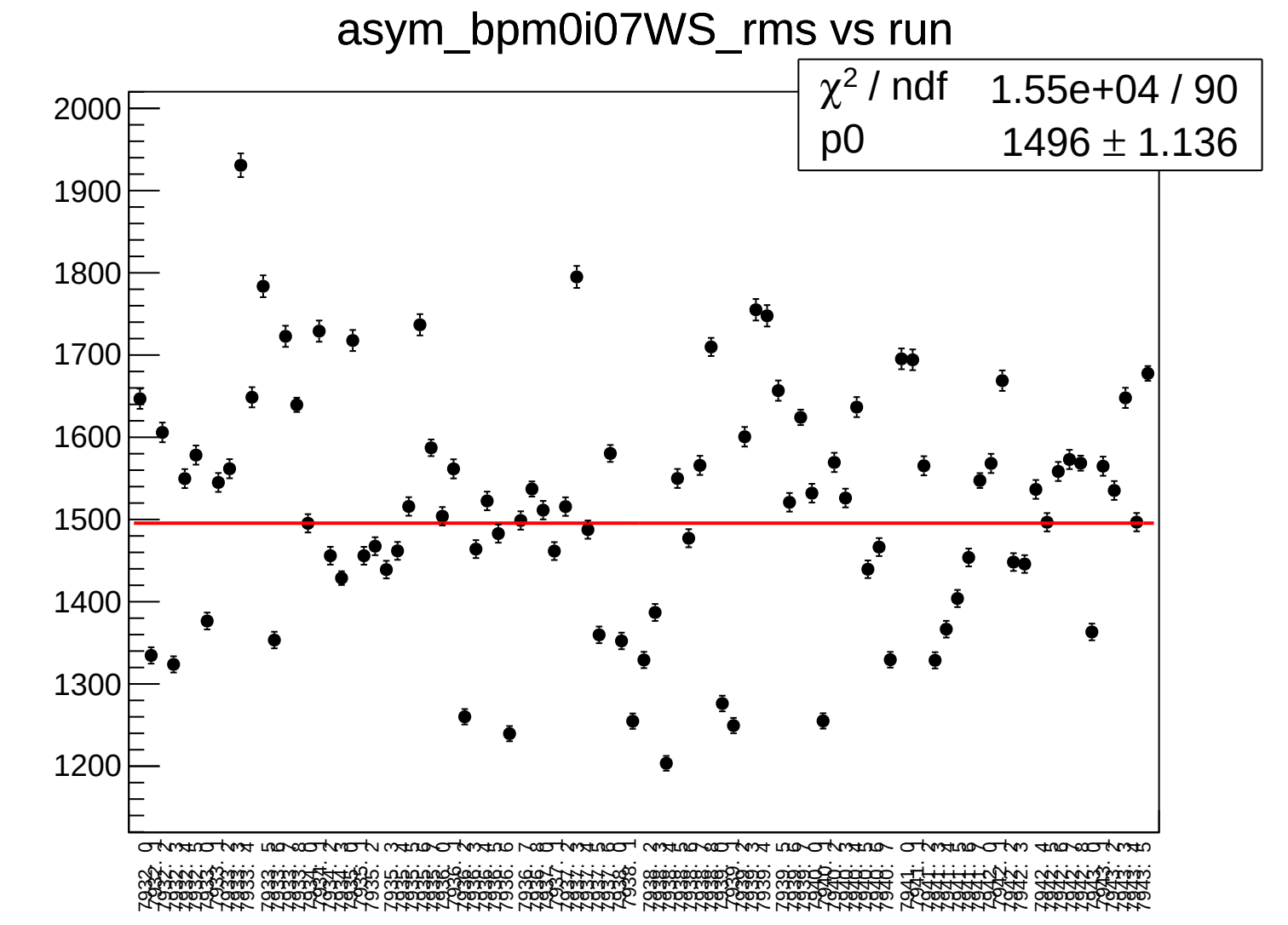

asym_bpm0i05WS_mean vs run
χ² / ndf 851.1 / 90
p0 1.094e+04 ± 201.9
pull
Entries 91
Mean 2351
Std Dev 0

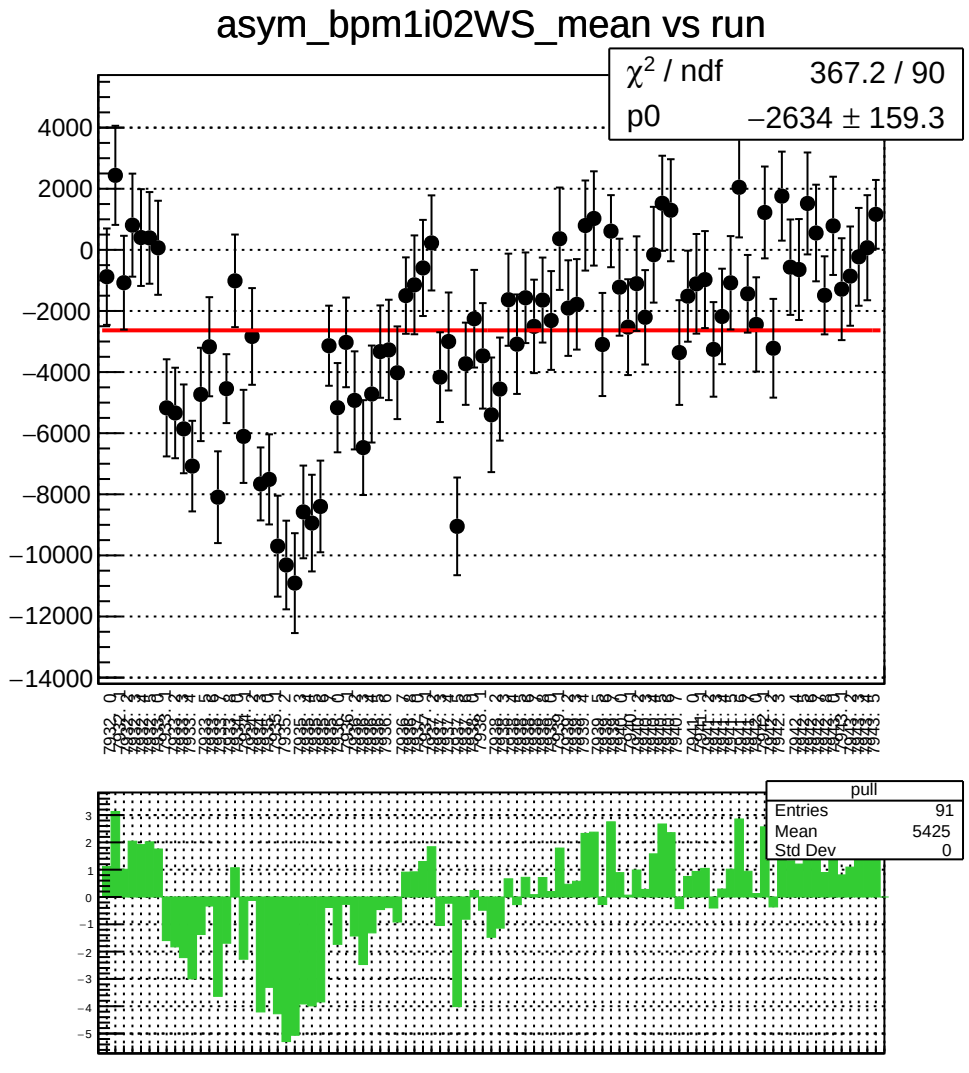

pull1D
Entries 91
Mean 0.2076
Std Dev 2.819

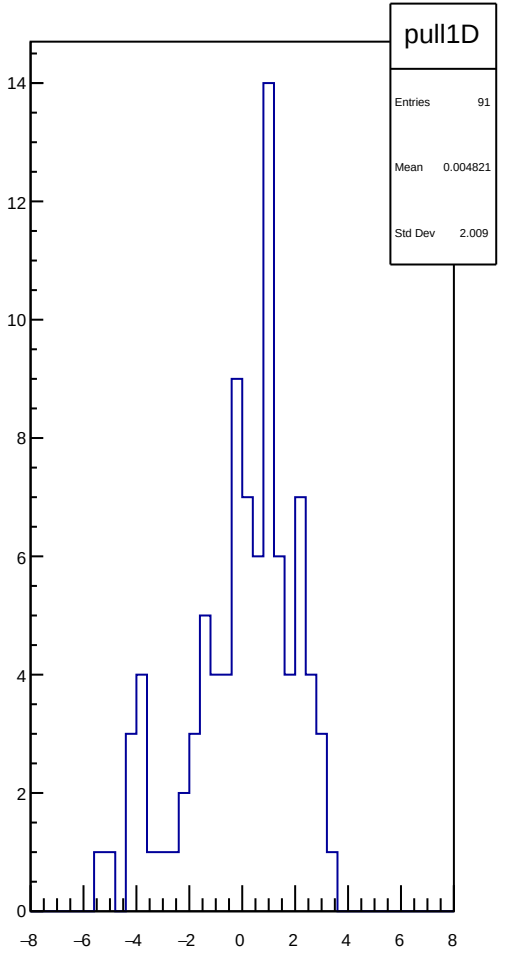

asym_bpm0i05WS_rms vs run
χ² / ndf 4034 / 90
p0 188.6 ± 0.1428
230
220
210
200
190
180
170

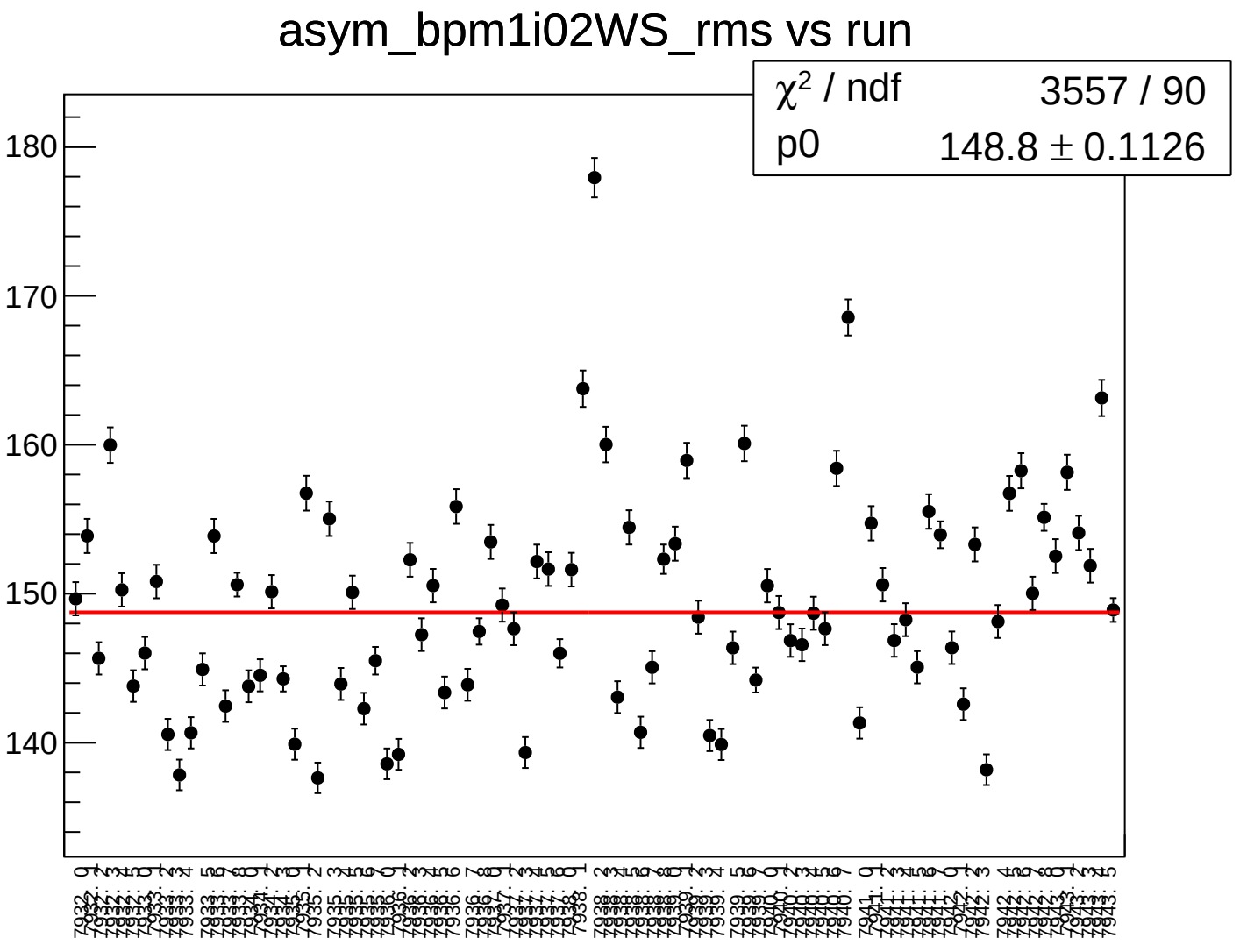

asym_bpm0i07WS_mean vs run
χ² / ndf 72.01 / 90
p0 −124 ± 1607
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −387.7
Std Dev 0
2
1
0
−1
−2

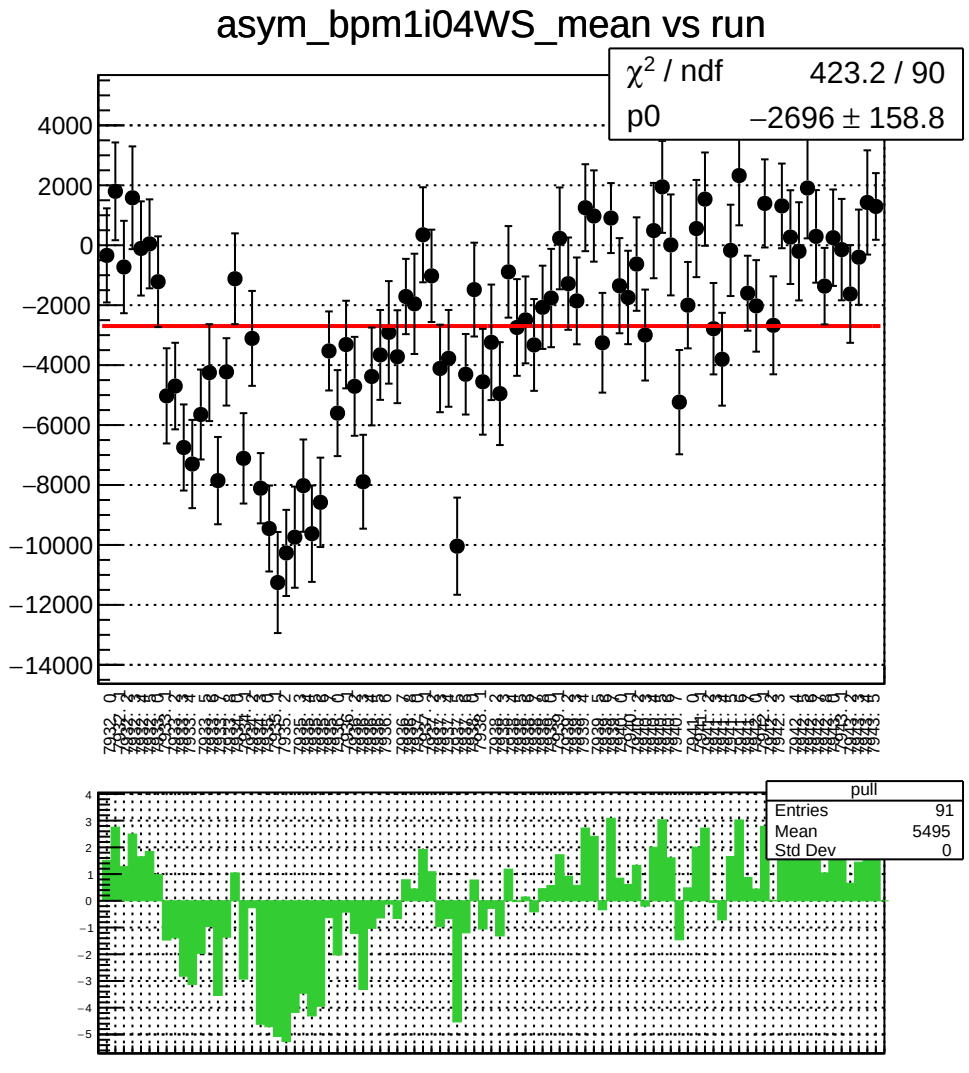

pull1D
Entries 91
Mean −0.01132
Std Dev 0.8895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

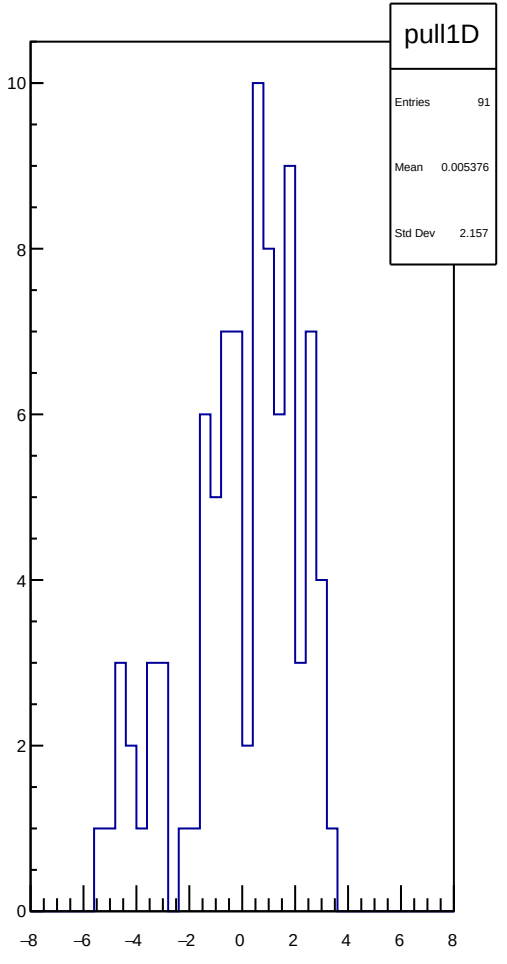

asym_bpm0i07WS_rms vs run
χ² / ndf 1.55e+04 / 90
p0 1496 ± 1.136
2000
1900
1800
1700
1600
1500
1400
1300
1200

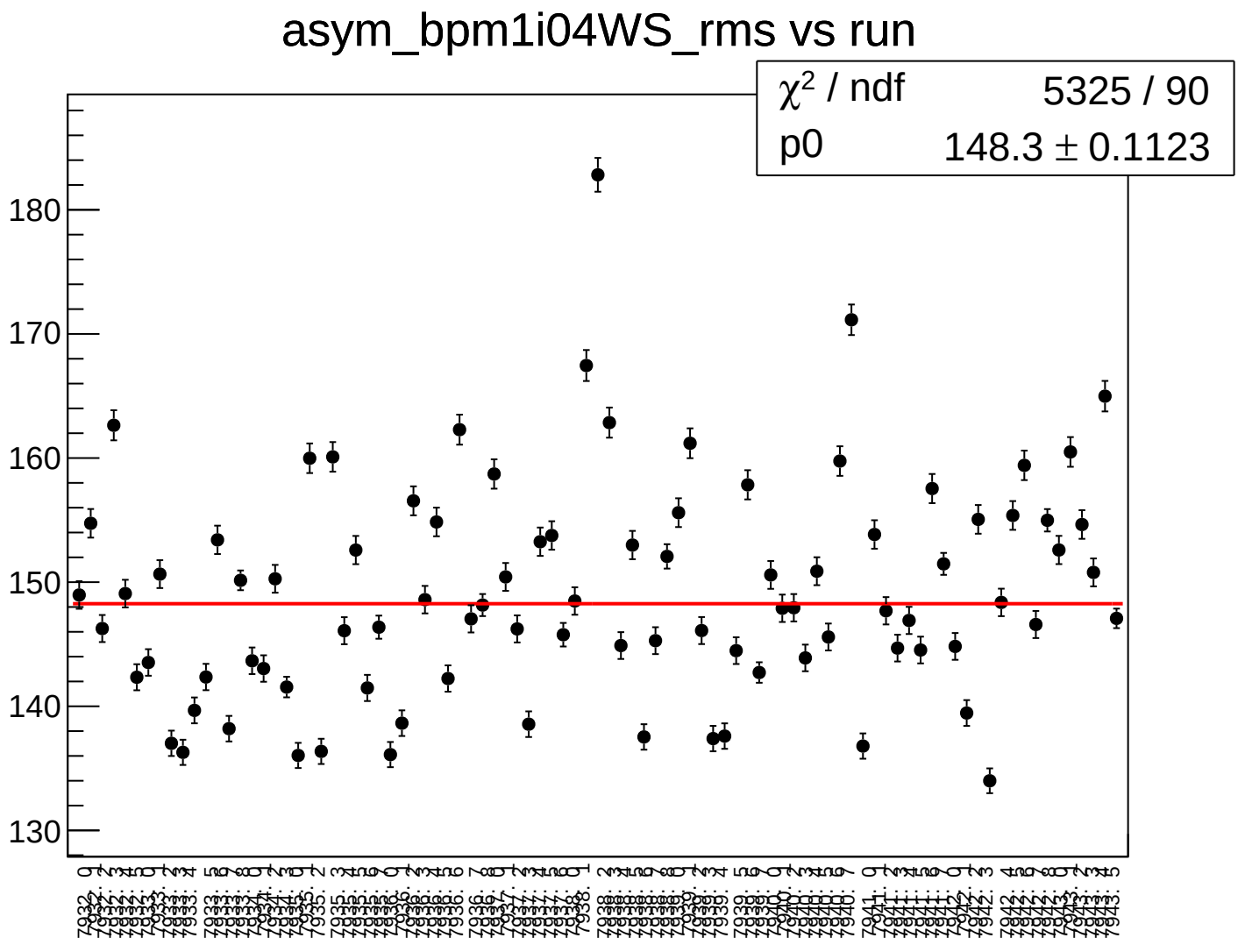

asym_bpm1i02WS_mean vs run
χ² / ndf 367.2 / 90
p0 −2634 ± 159.3
pull
Entries 91
Mean 5425
Std Dev 0

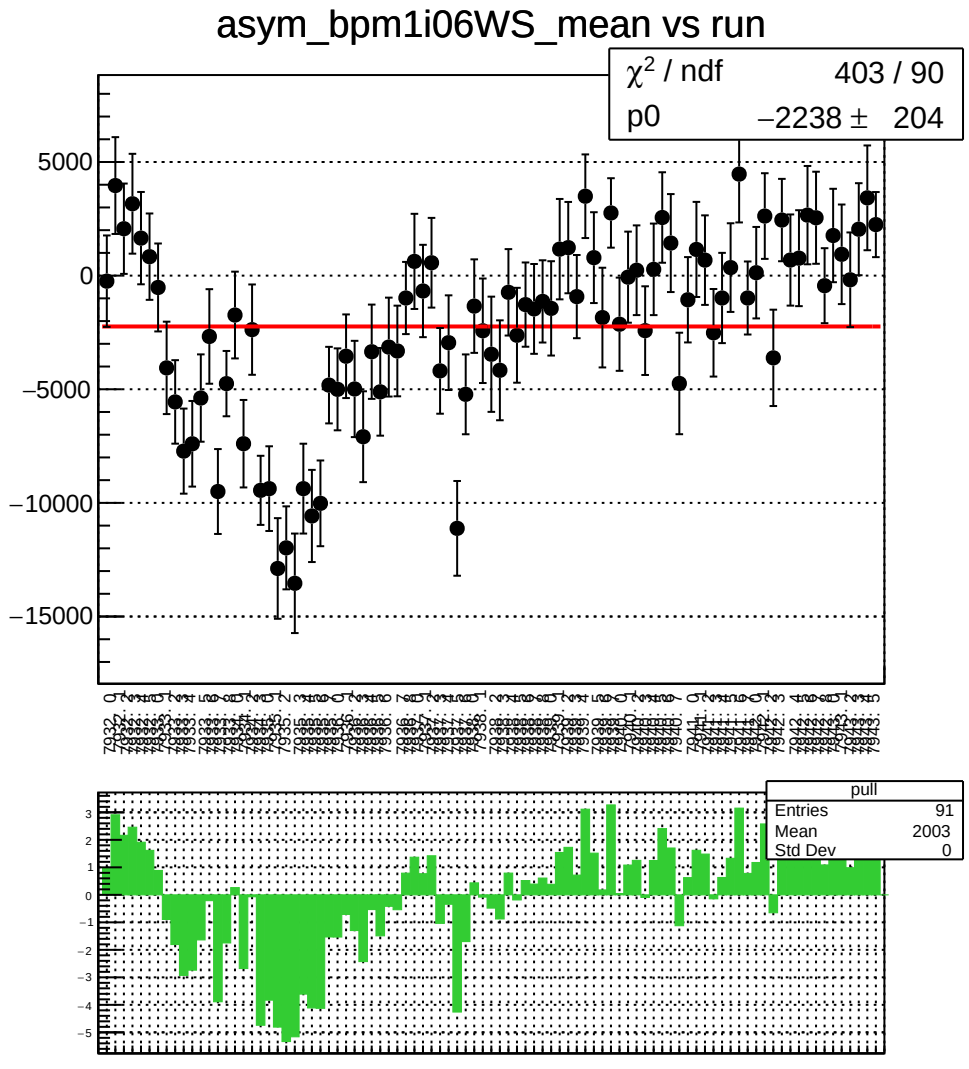

pull1D
Entries 91
Mean 0.004821
Std Dev 2.009

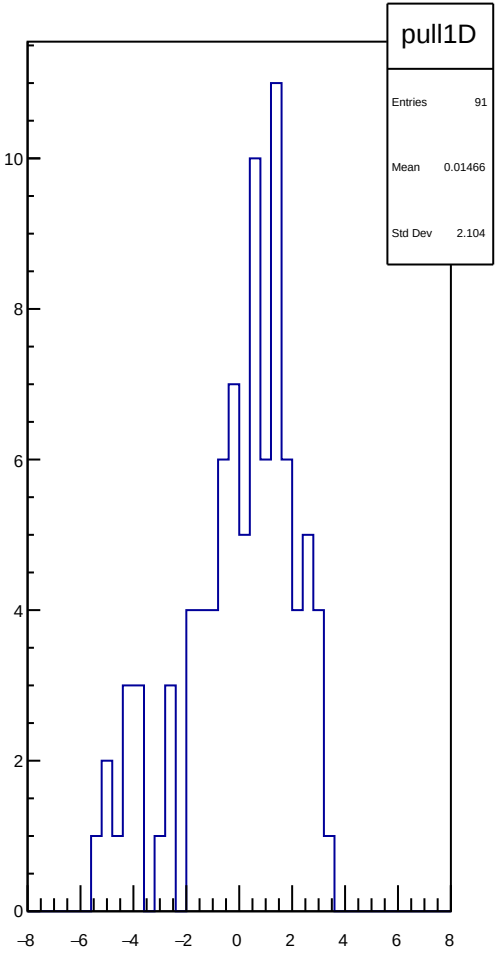

asym_bpm1i02WS_rms vs run
χ² / ndf 3557 / 90
p0 148.8 ± 0.1126
180
170
160
150
140

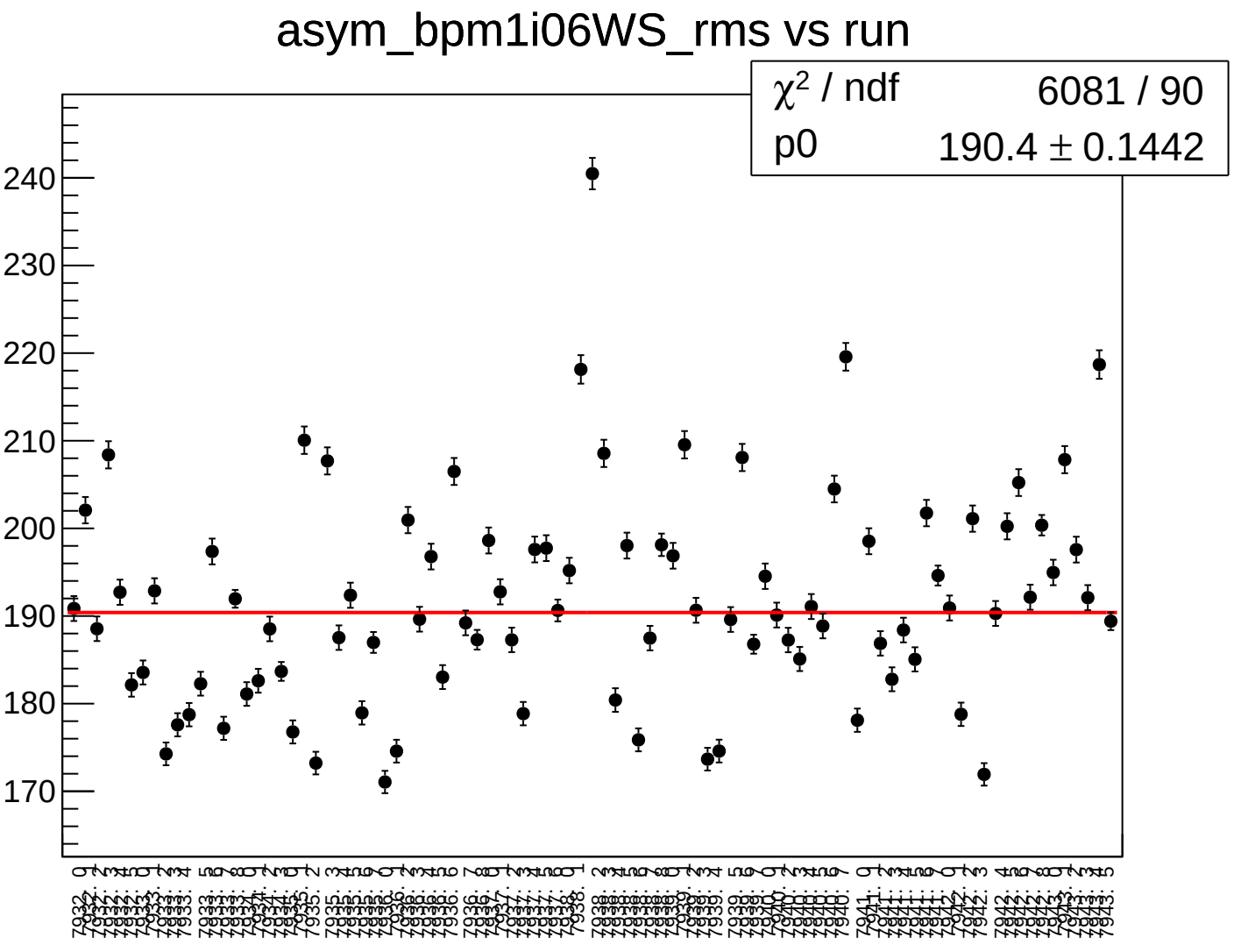

asym_bpm1i04WS_mean vs run
χ² / ndf 423.2 / 90
p0 −2696 ± 158.8
pull
Entries 91
Mean 5495
Std Dev 0

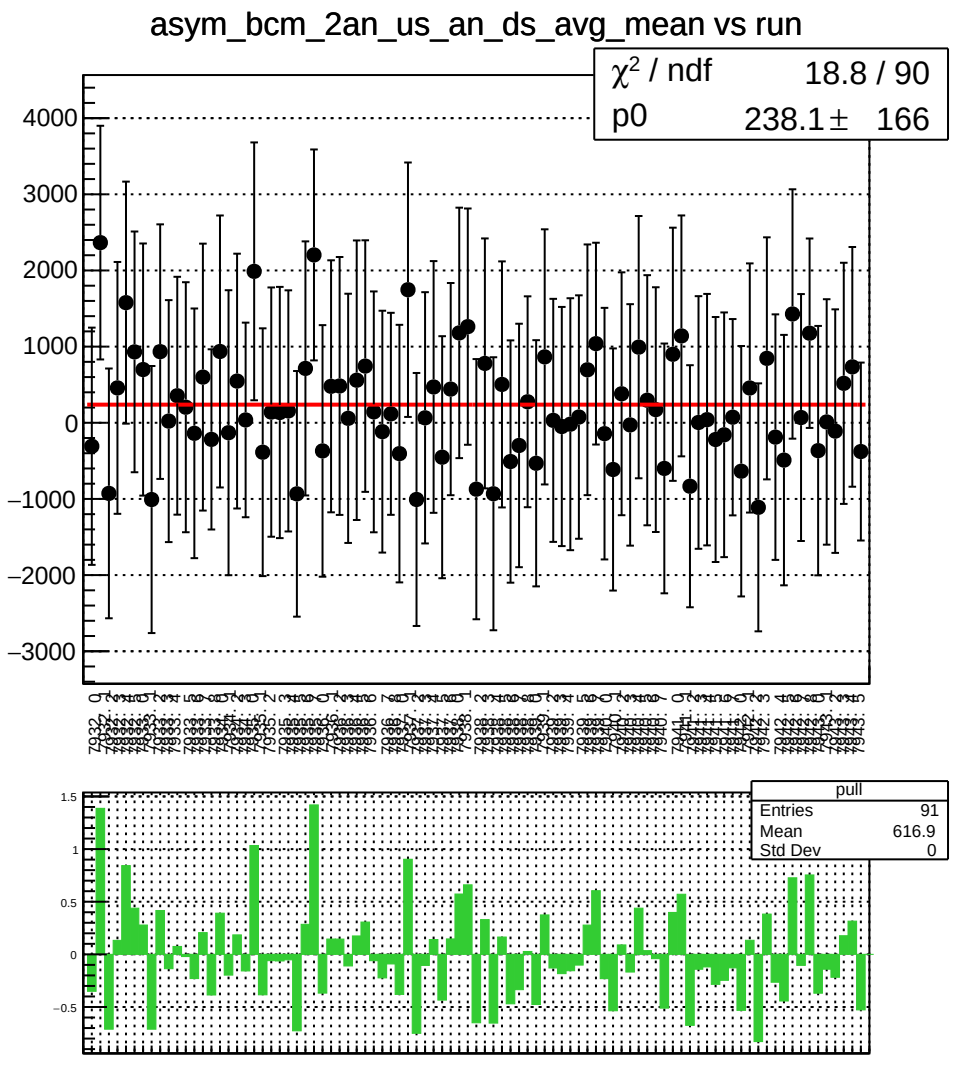

pull1D
Entries 91
Mean 0.005376
Std Dev 2.157

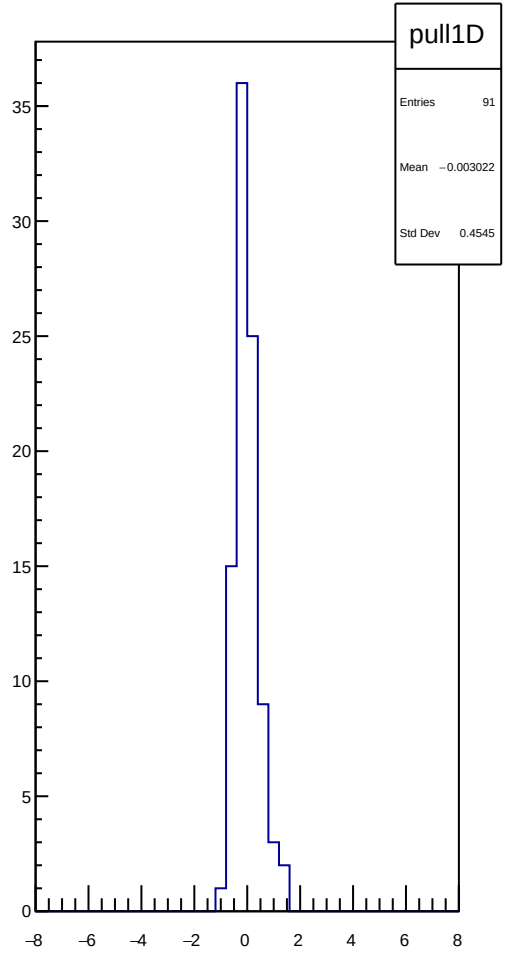

asym_bpm1i04WS_rms vs run
χ² / ndf 5325 / 90
p0 148.3 ± 0.1123
180
170
160
150
140
130

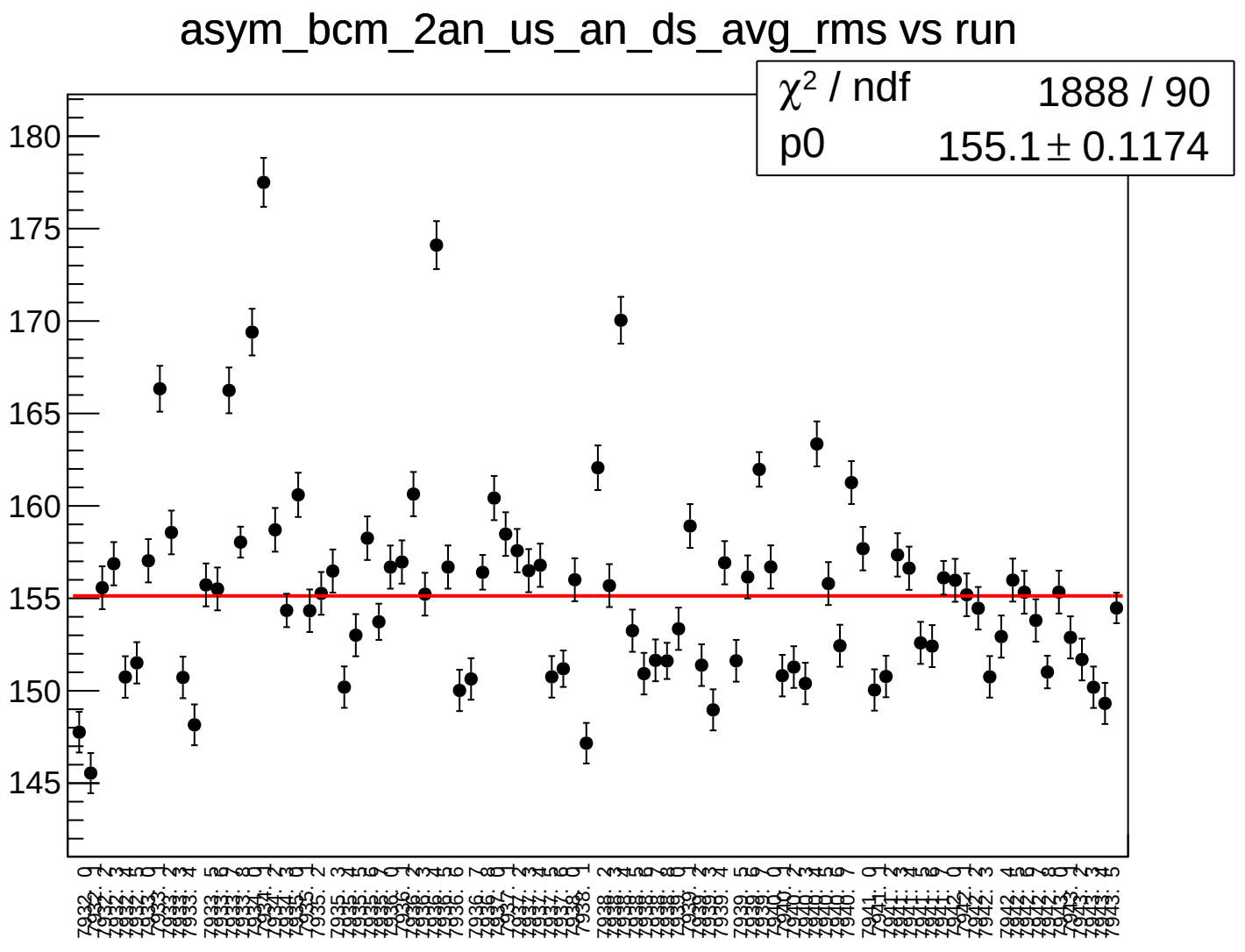

asym_bpm1i06WS_mean vs run
χ² / ndf 403 / 90
p0 −2238 ± 204
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 2003
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

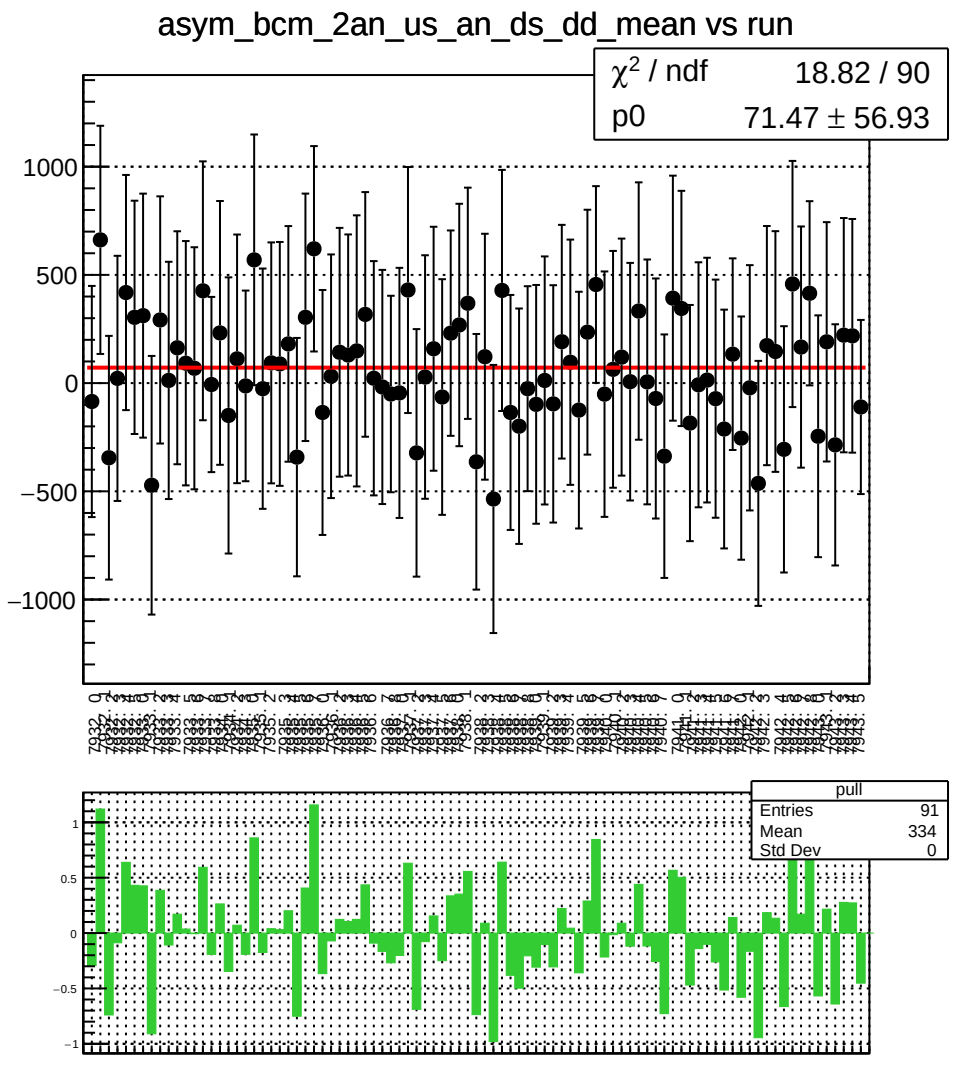

pull1D
Entries 91
Mean 0.01466
Std Dev 2.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

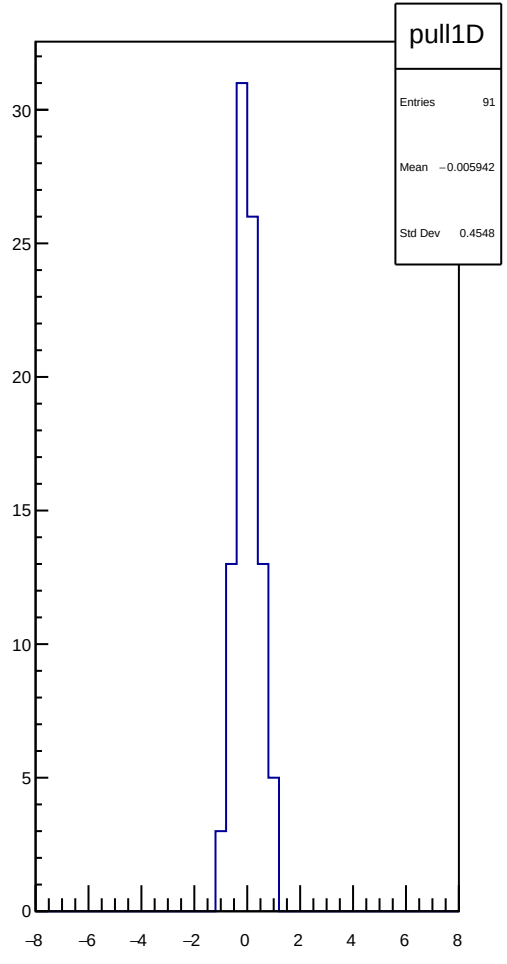

asym_bpm1i06WS_rms vs run
χ^2 / ndf 6081 / 90
p0 190.4 ± 0.1442
240
230
220
210
200
190
180
170

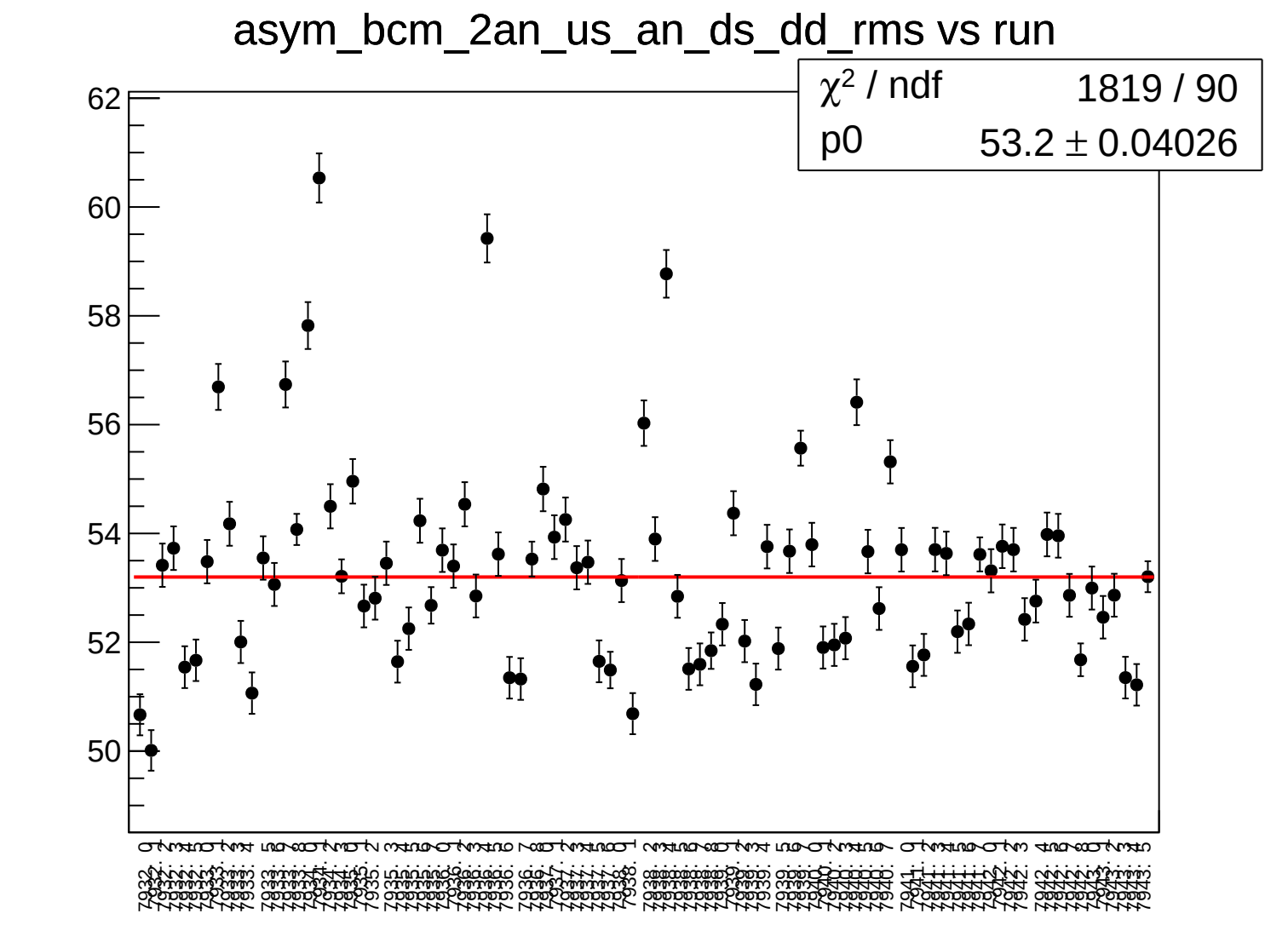

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 18.8 / 90
p0 238.1 ± 166
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 616.9
Std Dev 0
1.5
1
0.5
0
−0.5

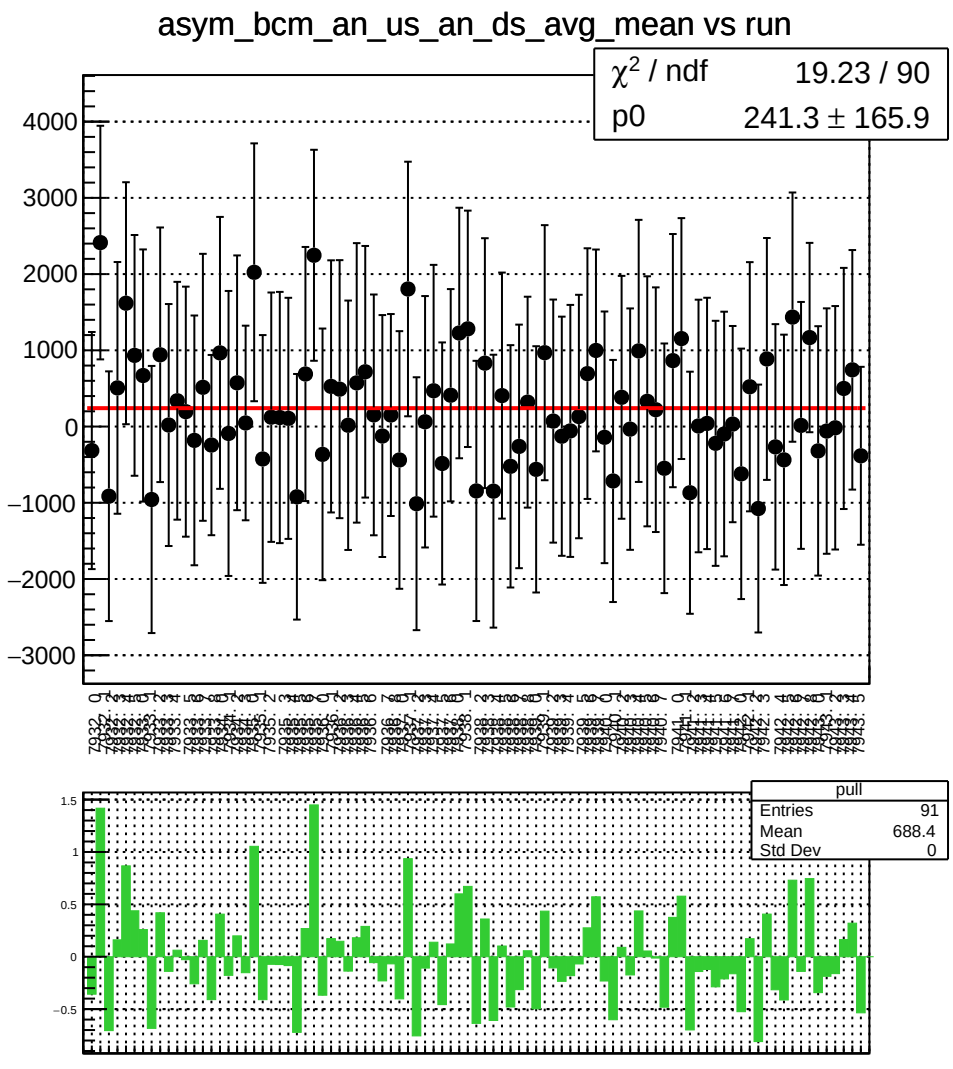

pull1D
Entries 91
Mean −0.003022
Std Dev 0.4545
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

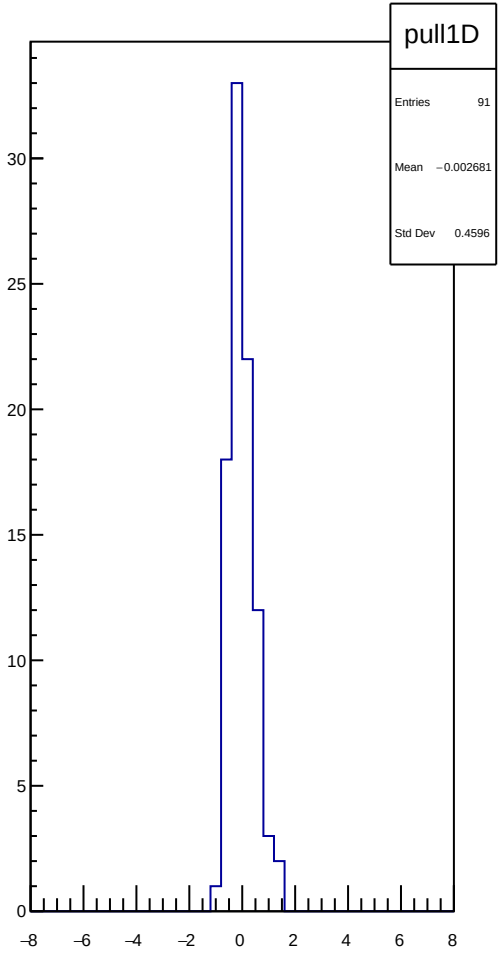

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1888 / 90
p0 155.1 ± 0.1174
180
175
170
165
160
155
150
145

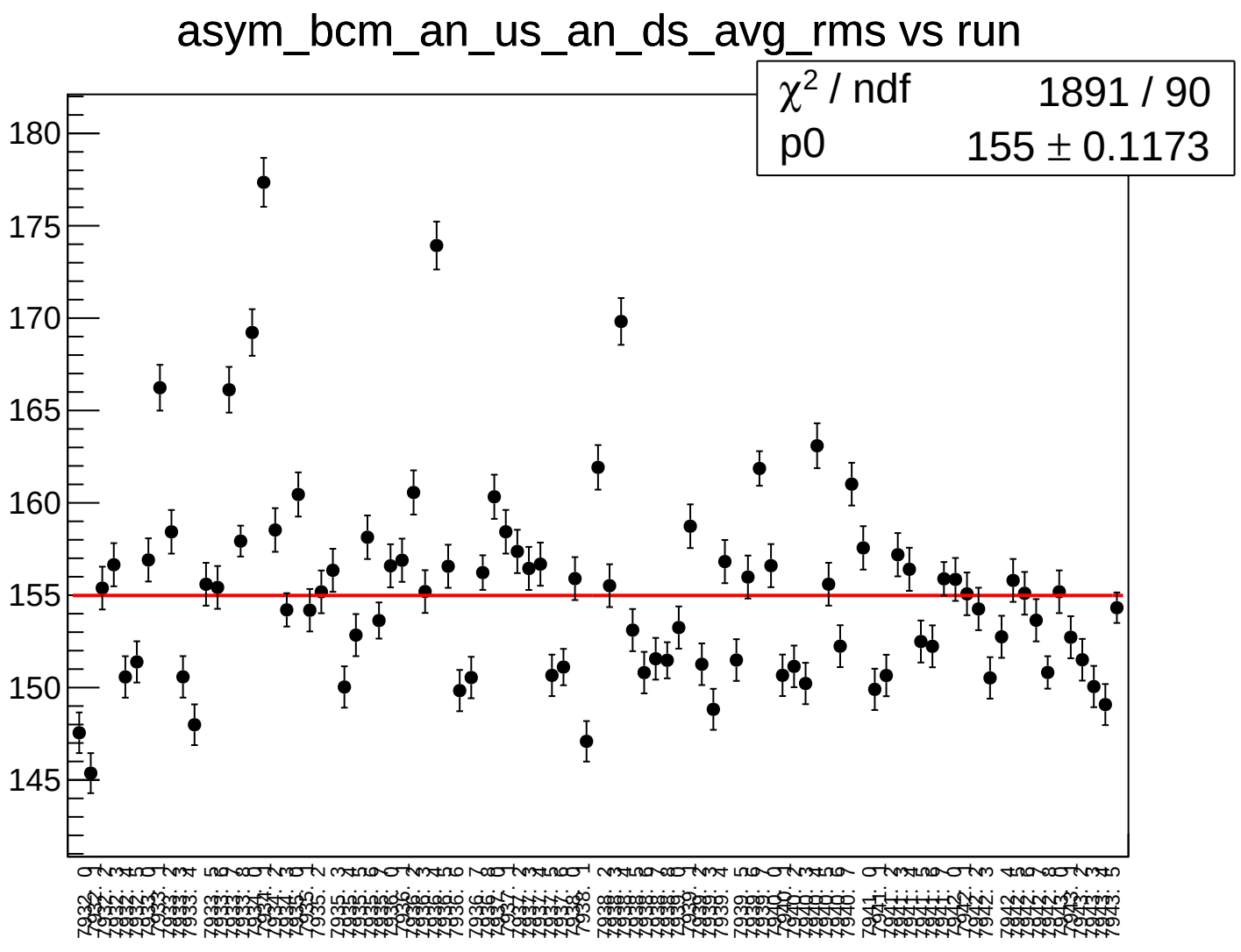

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 18.82 / 90
p0 71.47 ± 56.93
1000
500
0
−500
−1000
pull
Entries 91
Mean 334
Std Dev 0
1
0.5
0
−0.5
−1

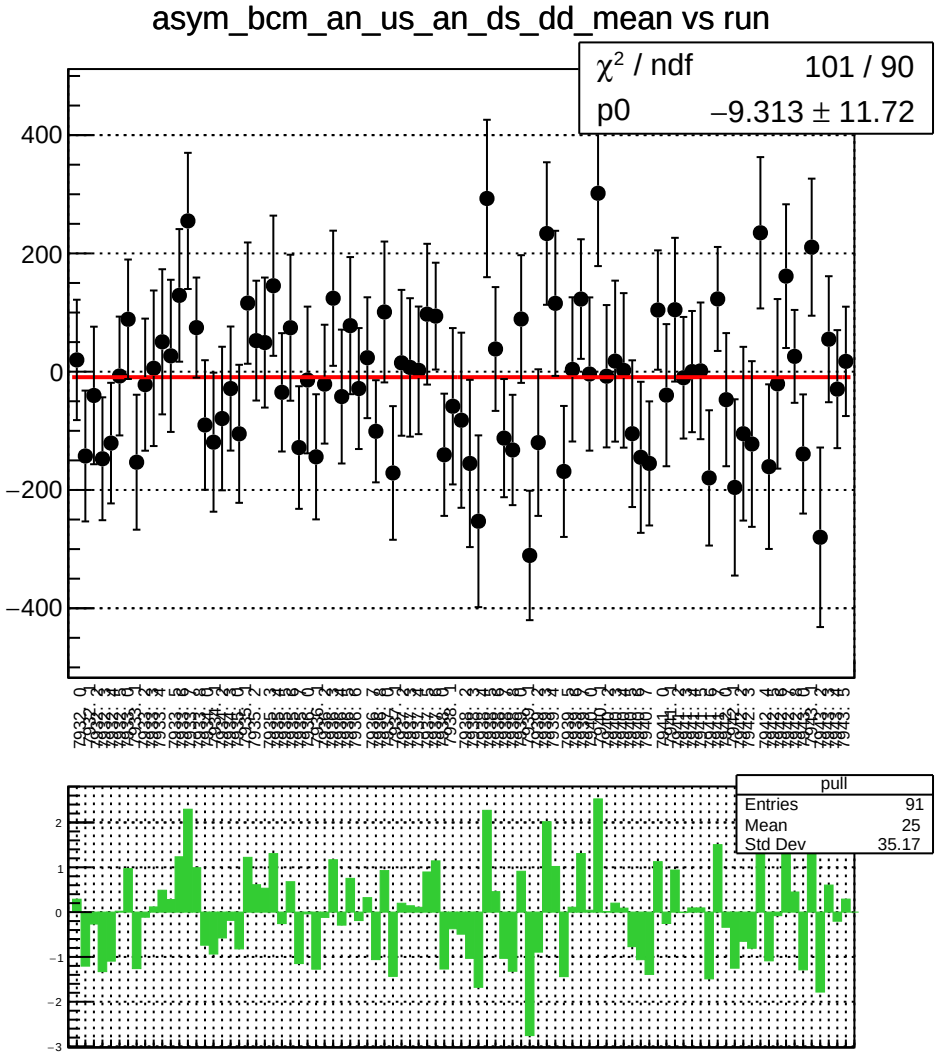

pull1D
Entries 91
Mean −0.005942
Std Dev 0.4548
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

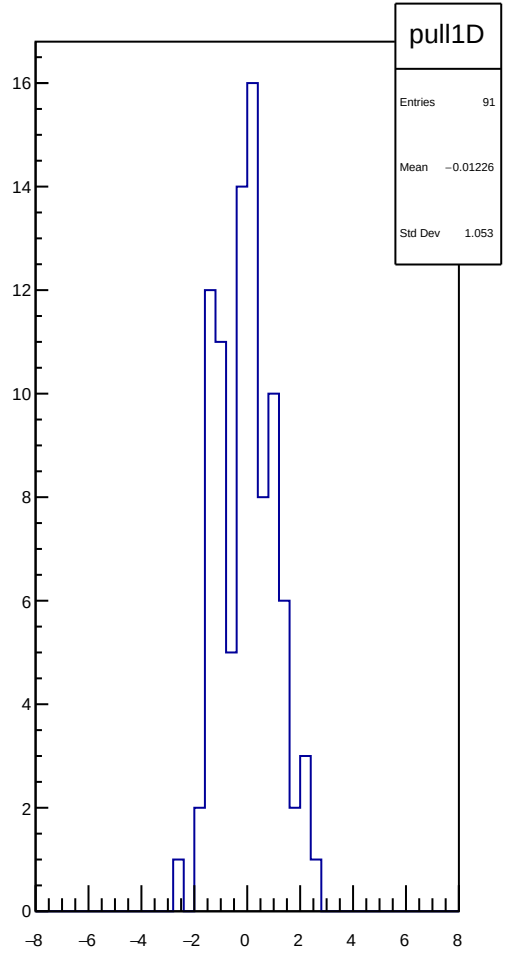

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1819 / 90
p0 53.2 ± 0.04026
62
60
58
56
54
52
50

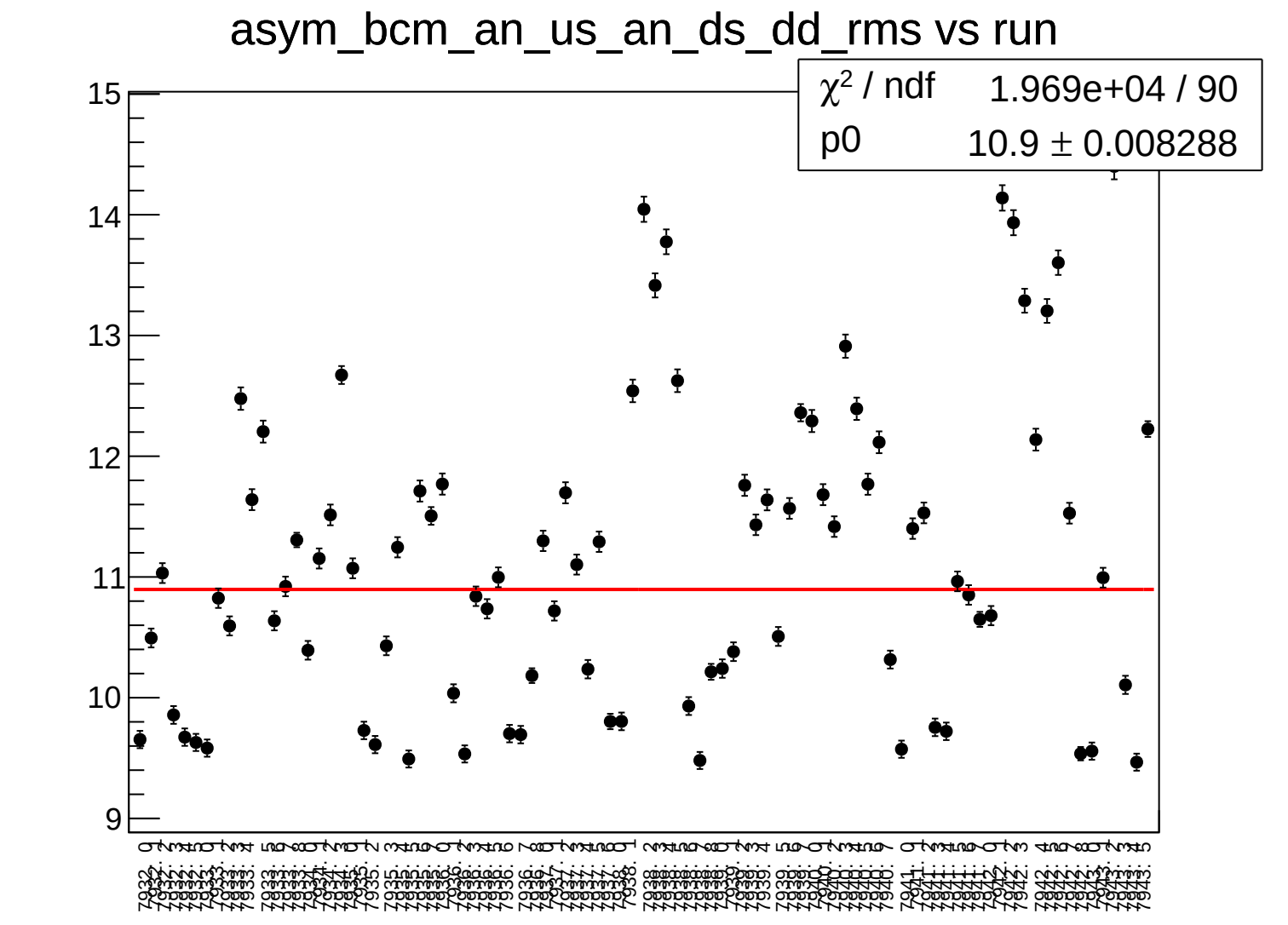

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 19.23 / 90
p0 241.3 ± 165.9
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 688.4
Std Dev 0
1.5
1
0.5
0
−0.5

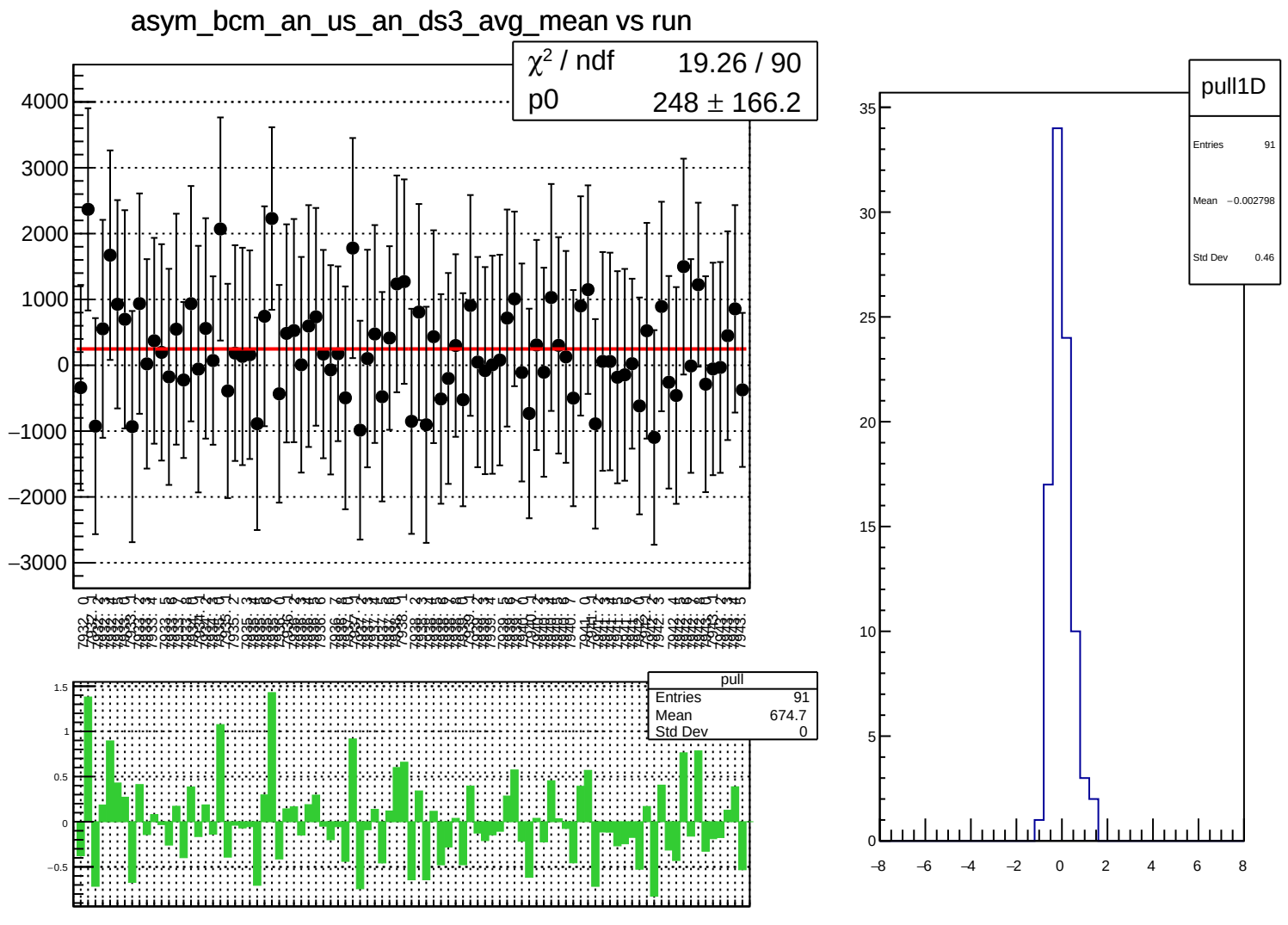

pull1D
Entries 91
Mean −0.002681
Std Dev 0.4596
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

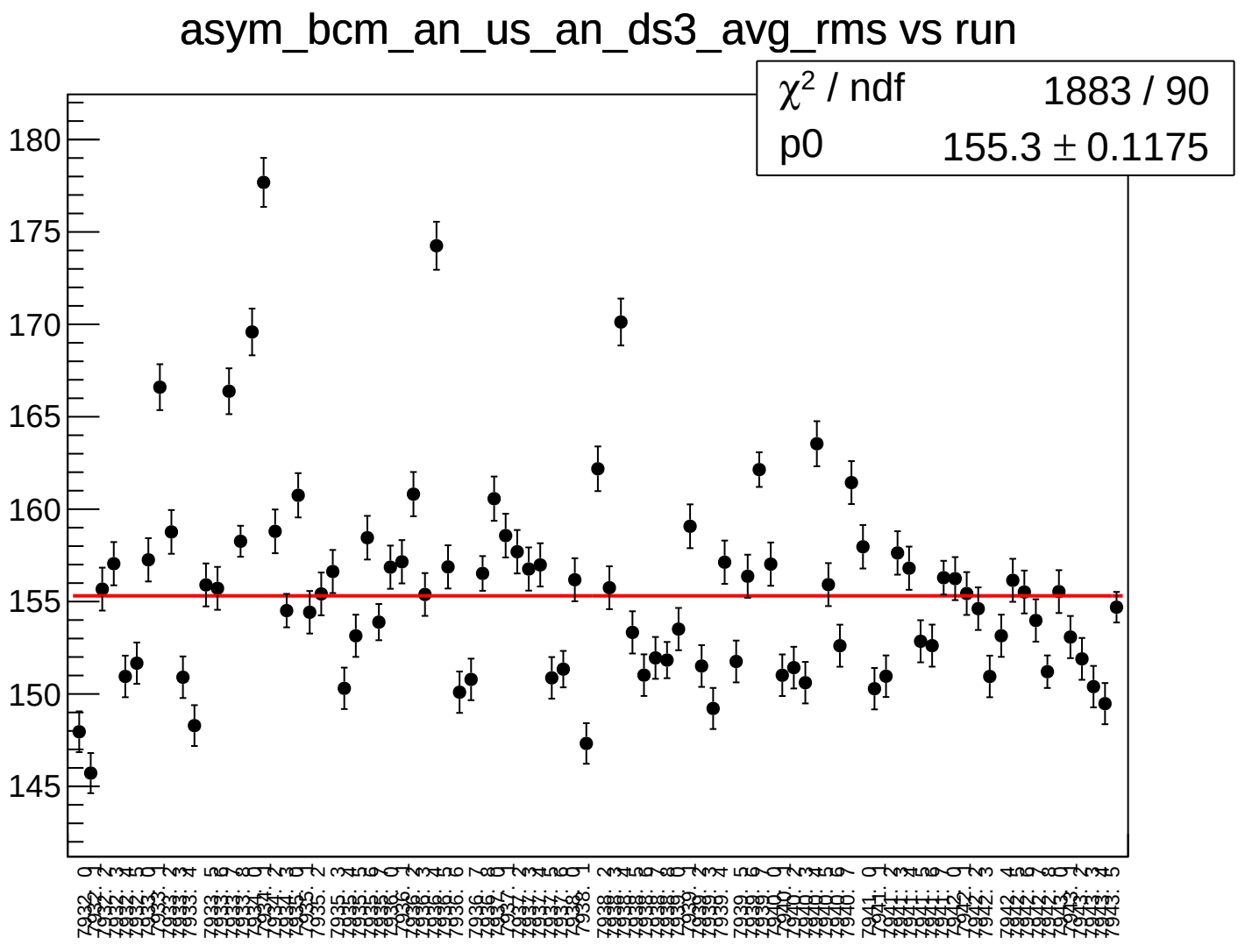

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1891 / 90
p0 155 ± 0.1173
180
175
170
165
160
155
150
145

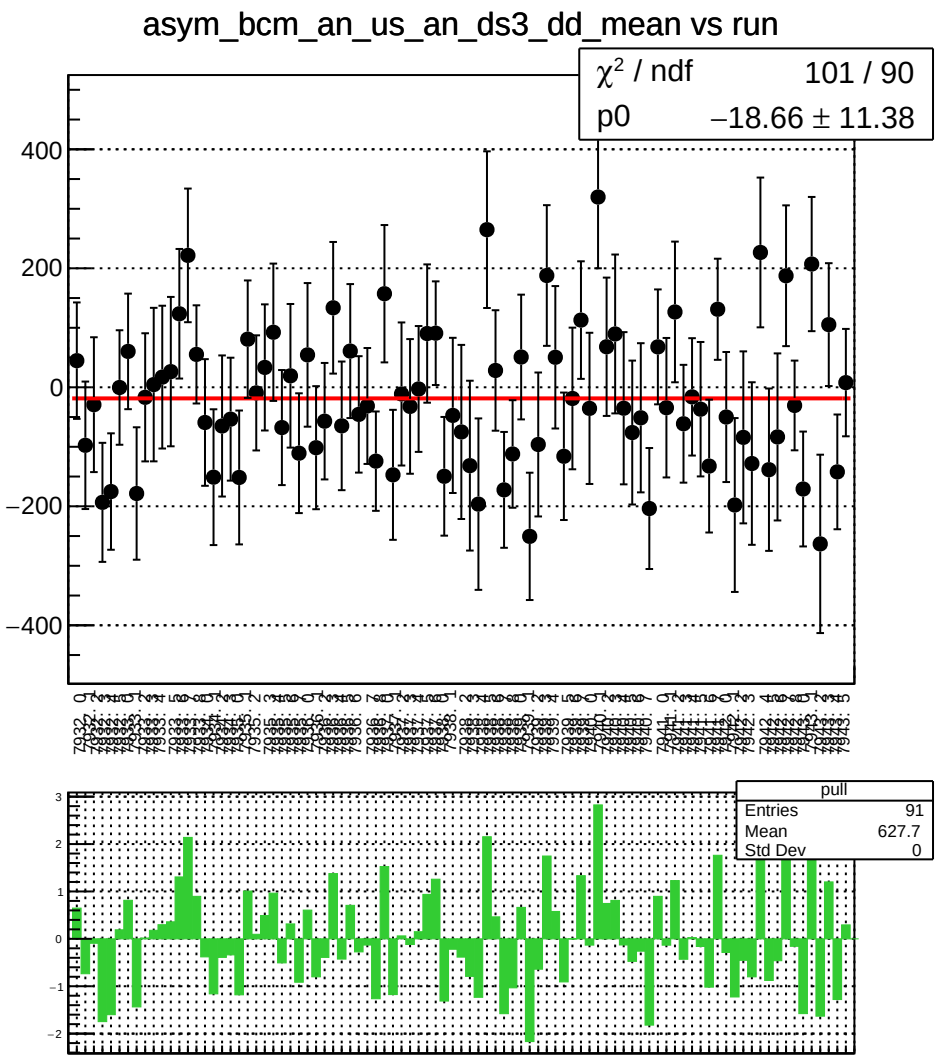

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 101 / 90
p0 −9.313 ± 11.72
400
200
0
−200
−400
pull
Entries 91
Mean 25
Std Dev 35.17
2
1
0
−1
−2
−3

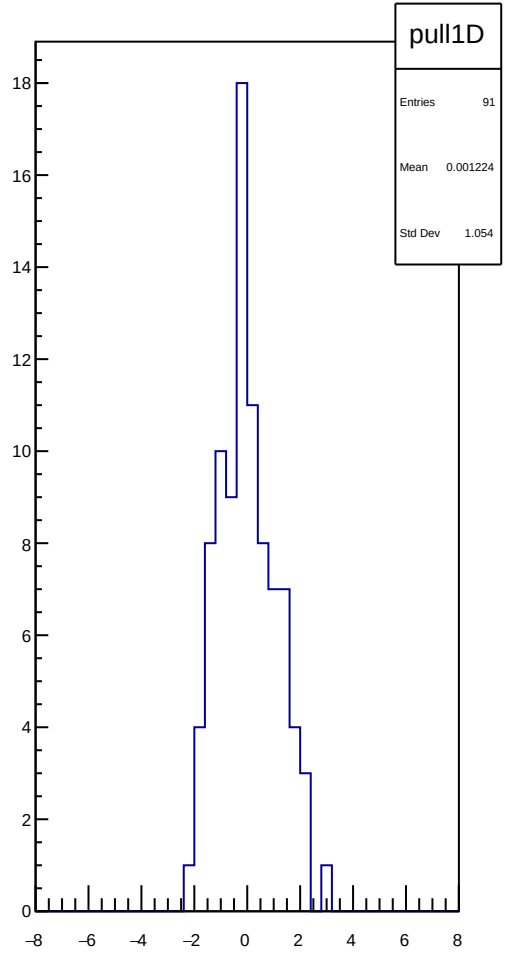

pull1D
Entries 91
Mean −0.01226
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

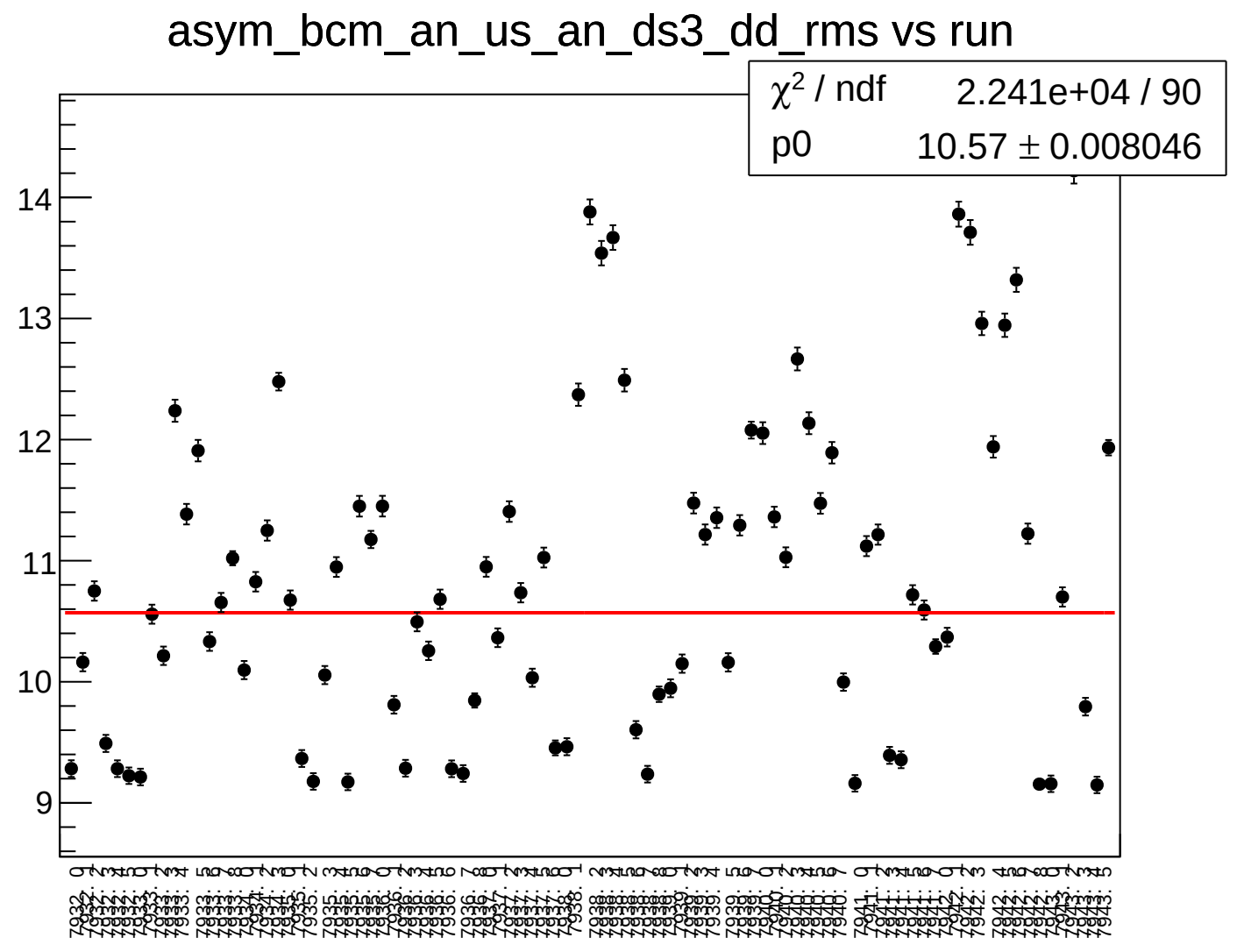

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.969e+04 / 90
p0 10.9 ± 0.008288
15
14
13
12
11
10
9

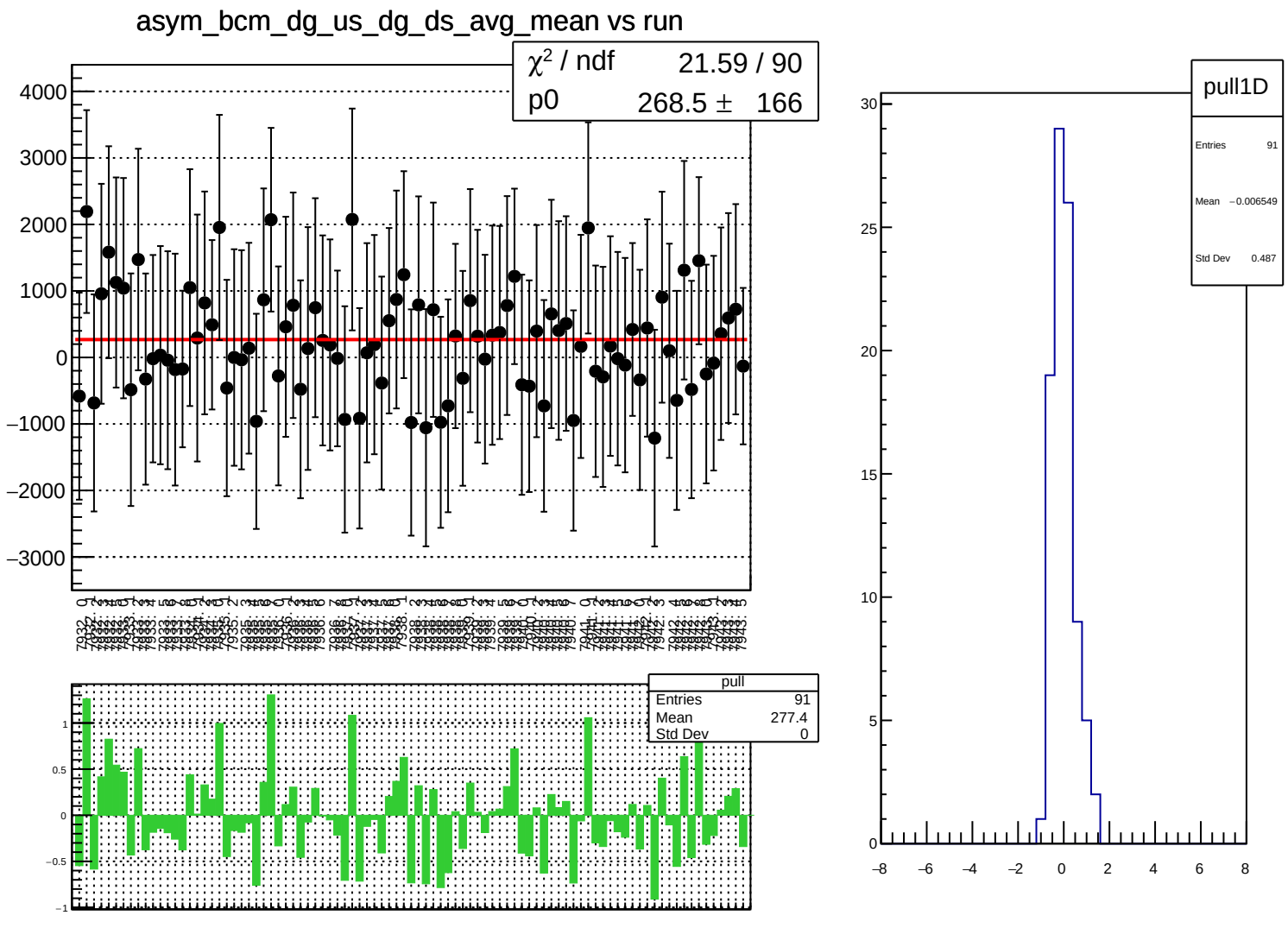

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 19.26 / 90
p0 248 ± 166.2
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 674.7
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.002798
Std Dev 0.46
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

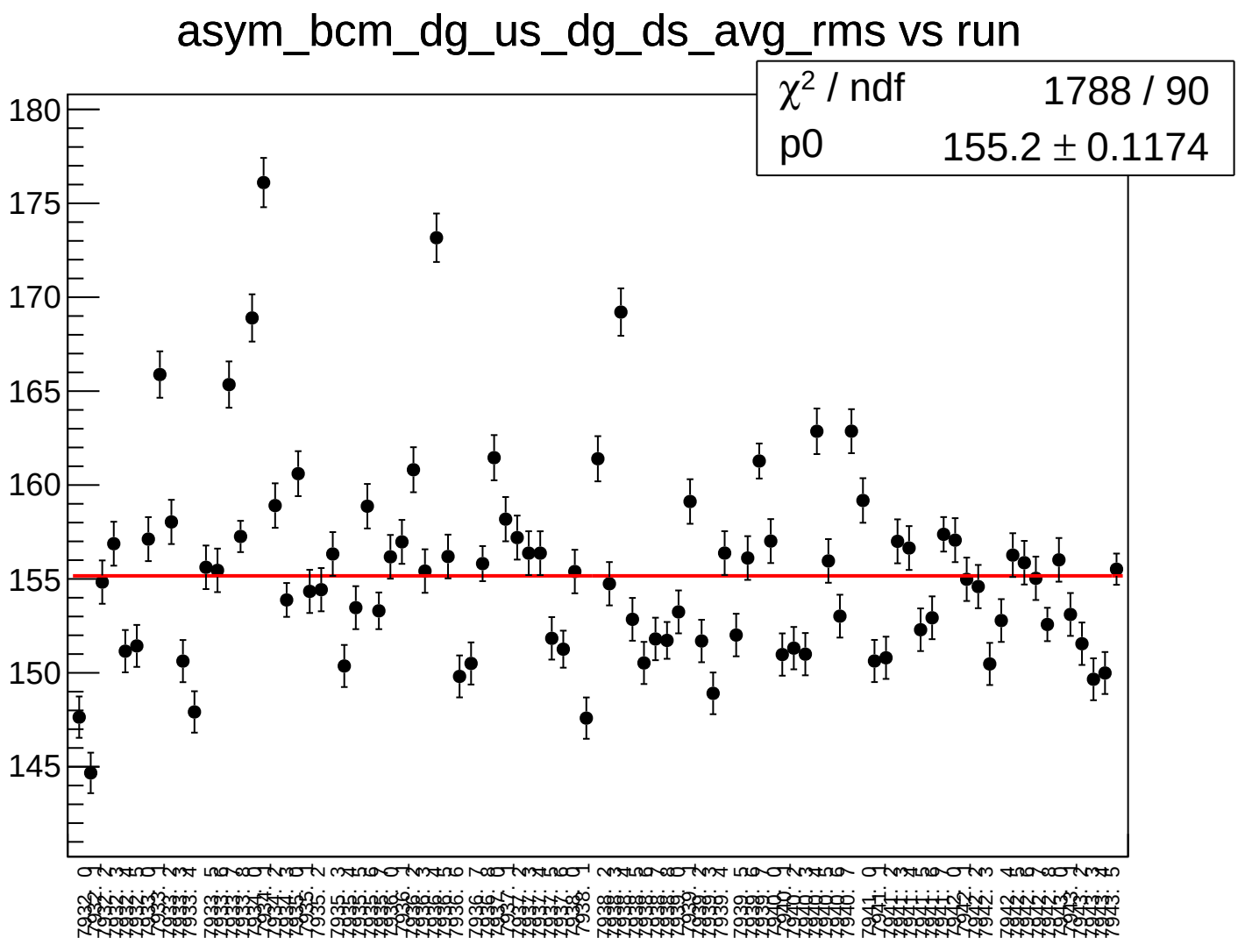

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1883 / 90
p0 155.3 ± 0.1175
180
175
170
165
160
155
150
145

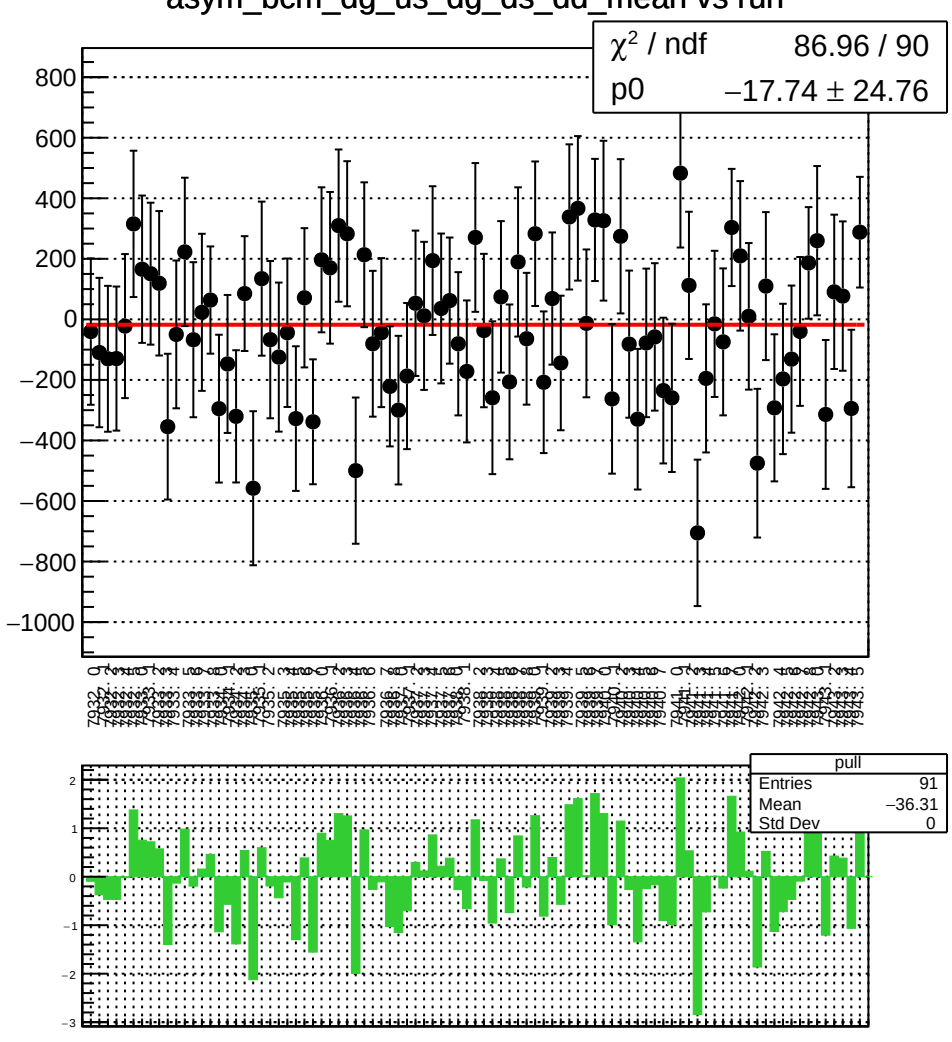

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 101 / 90
p0 −18.66 ± 11.38
400
200
0
−200
−400
pull
Entries 91
Mean 627.7
Std Dev 0
3
2
1
0
−1
−2

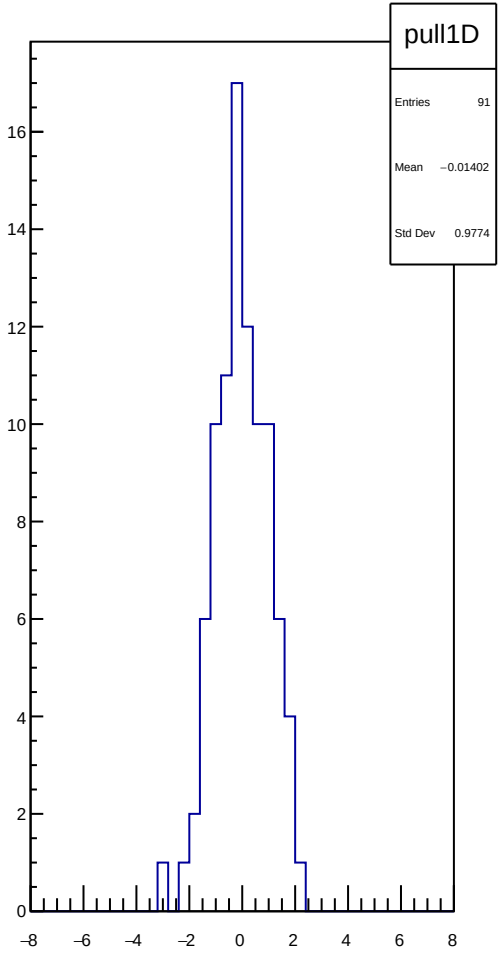

pull1D
Entries 91
Mean 0.001224
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

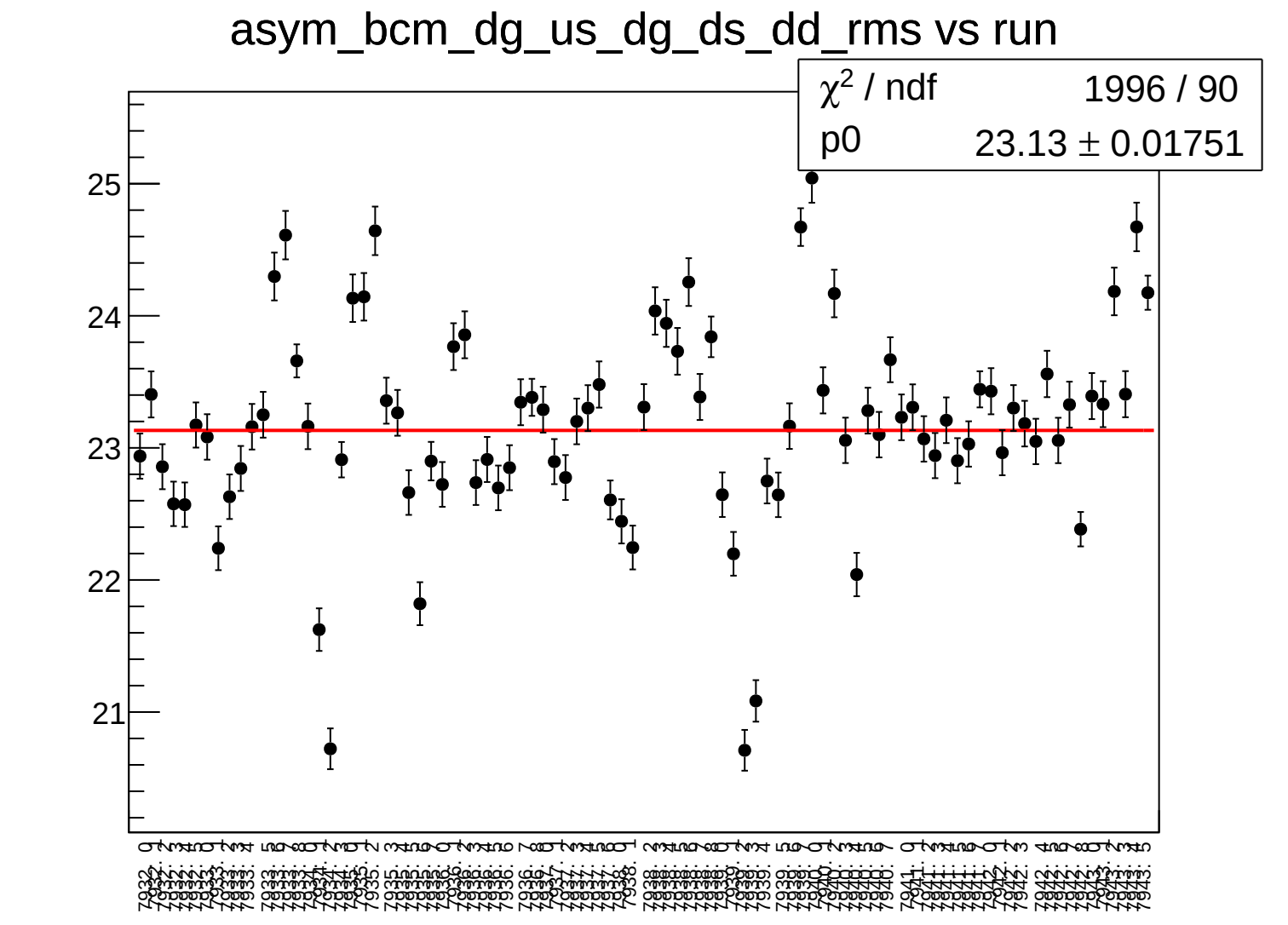

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.241e+04 / 90
p0 10.57 ± 0.008046
14
13
12
11
10
9

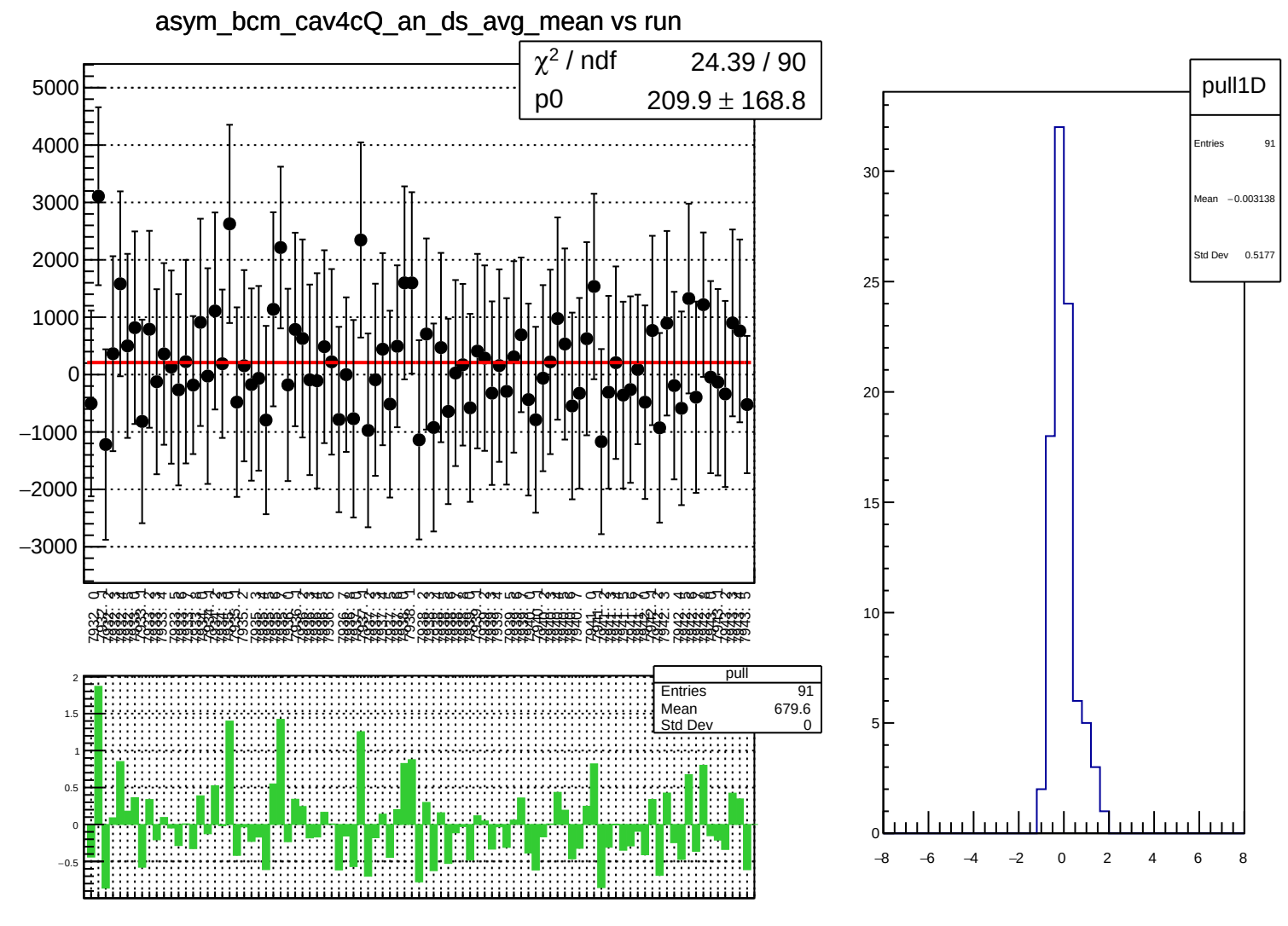

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 21.59 / 90
p0 268.5 ± 166
pull
Entries 91
Mean 277.4
Std Dev 0
pull1D
Entries 91
Mean −0.006549
Std Dev 0.487

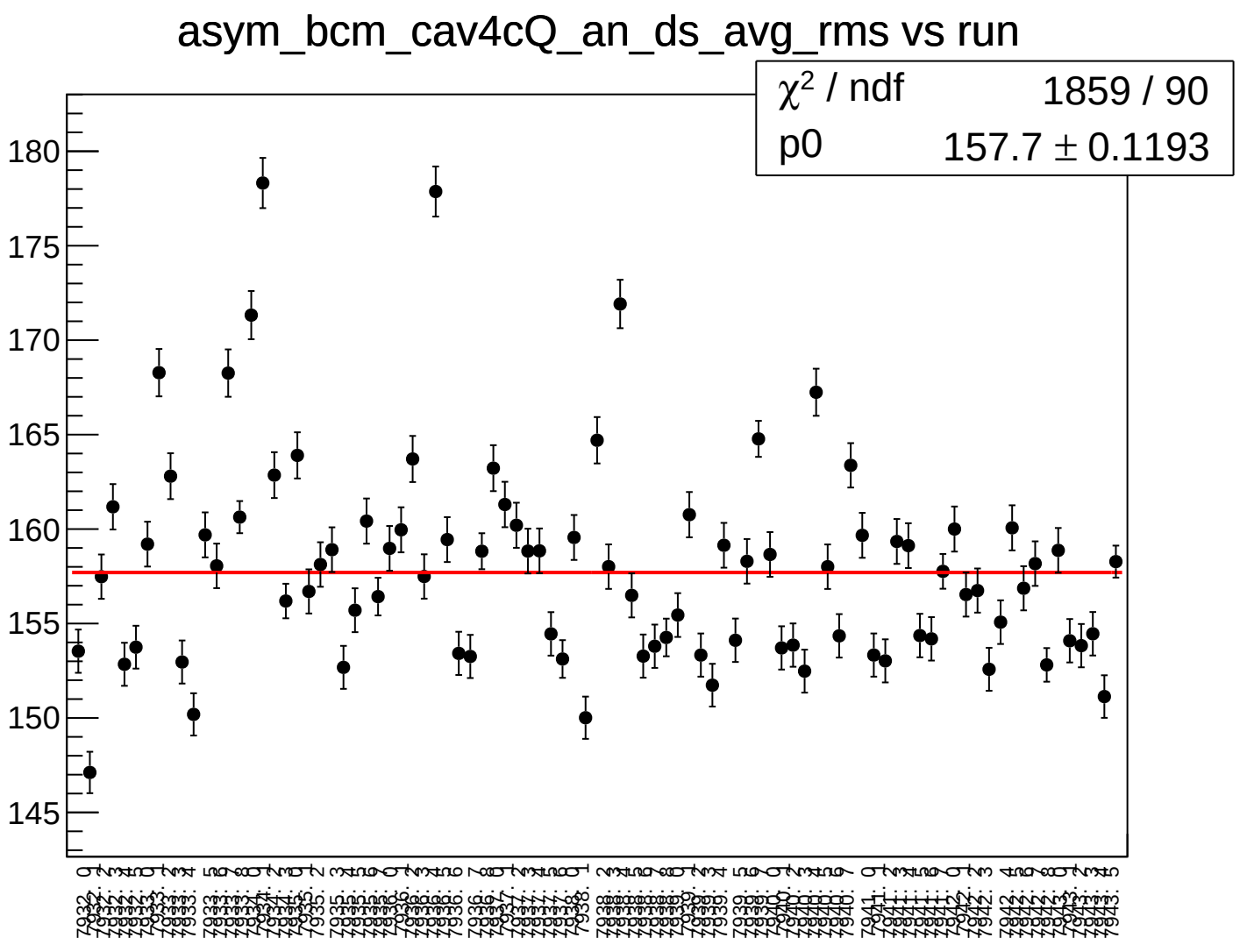

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1788 / 90
p0 155.2 ± 0.1174
180
175
170
165
160
155
150
145

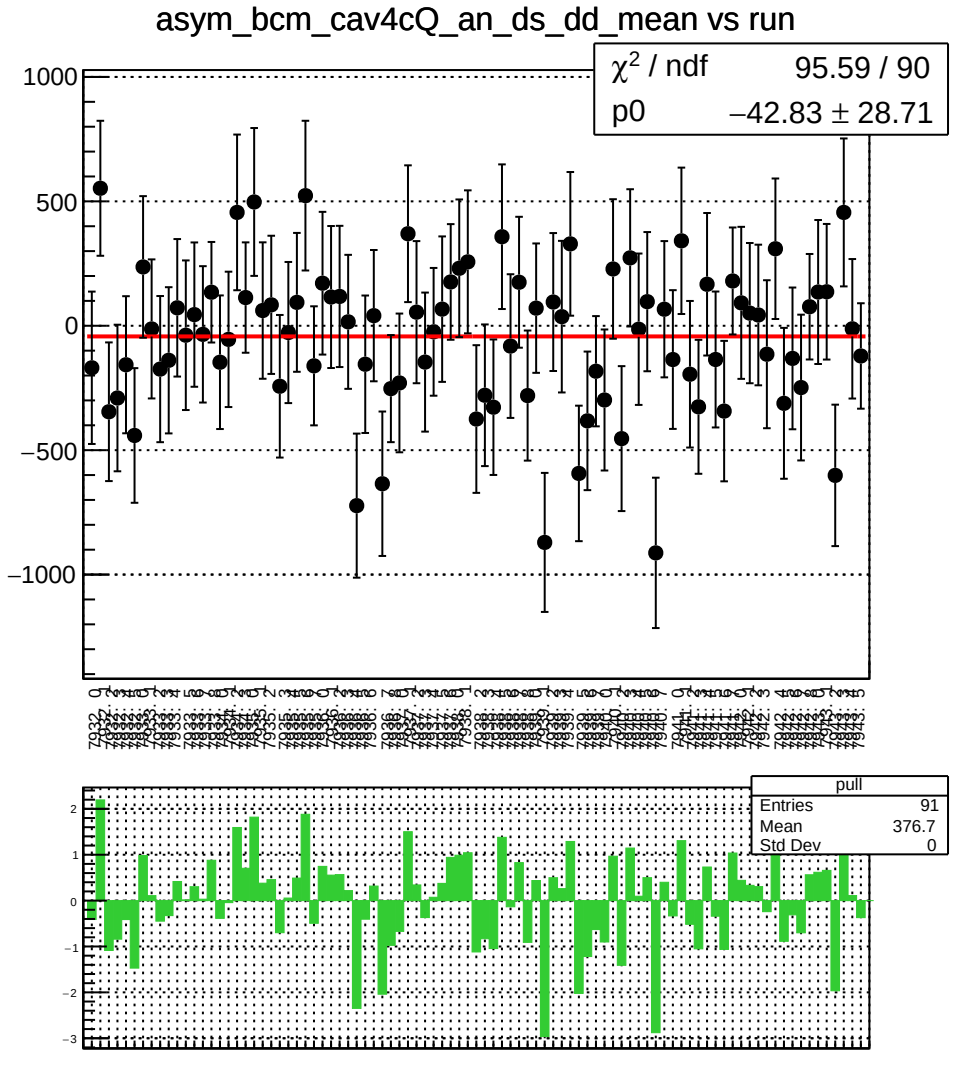

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 86.96 / 90
p0 −17.74 ± 24.76
pull
Entries 91
Mean −36.31
Std Dev 0

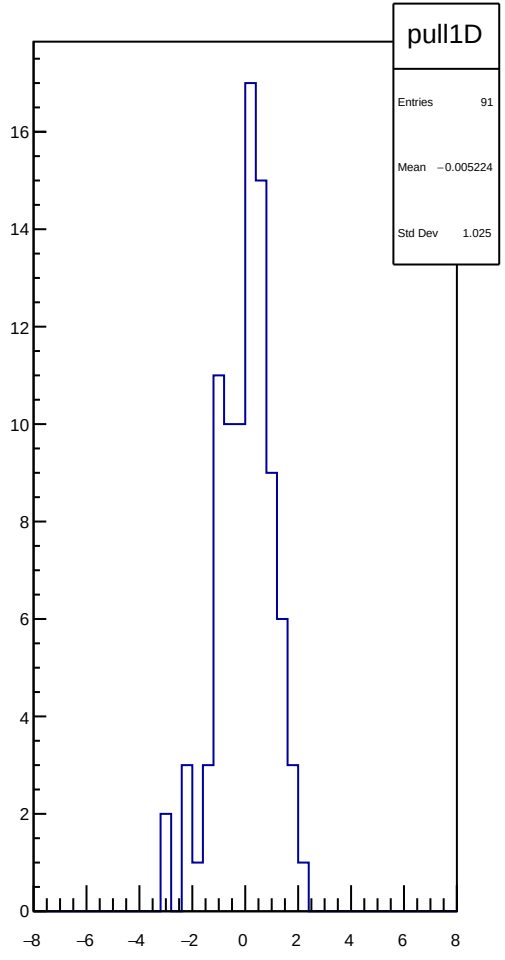

pull1D
Entries 91
Mean −0.01402
Std Dev 0.9774

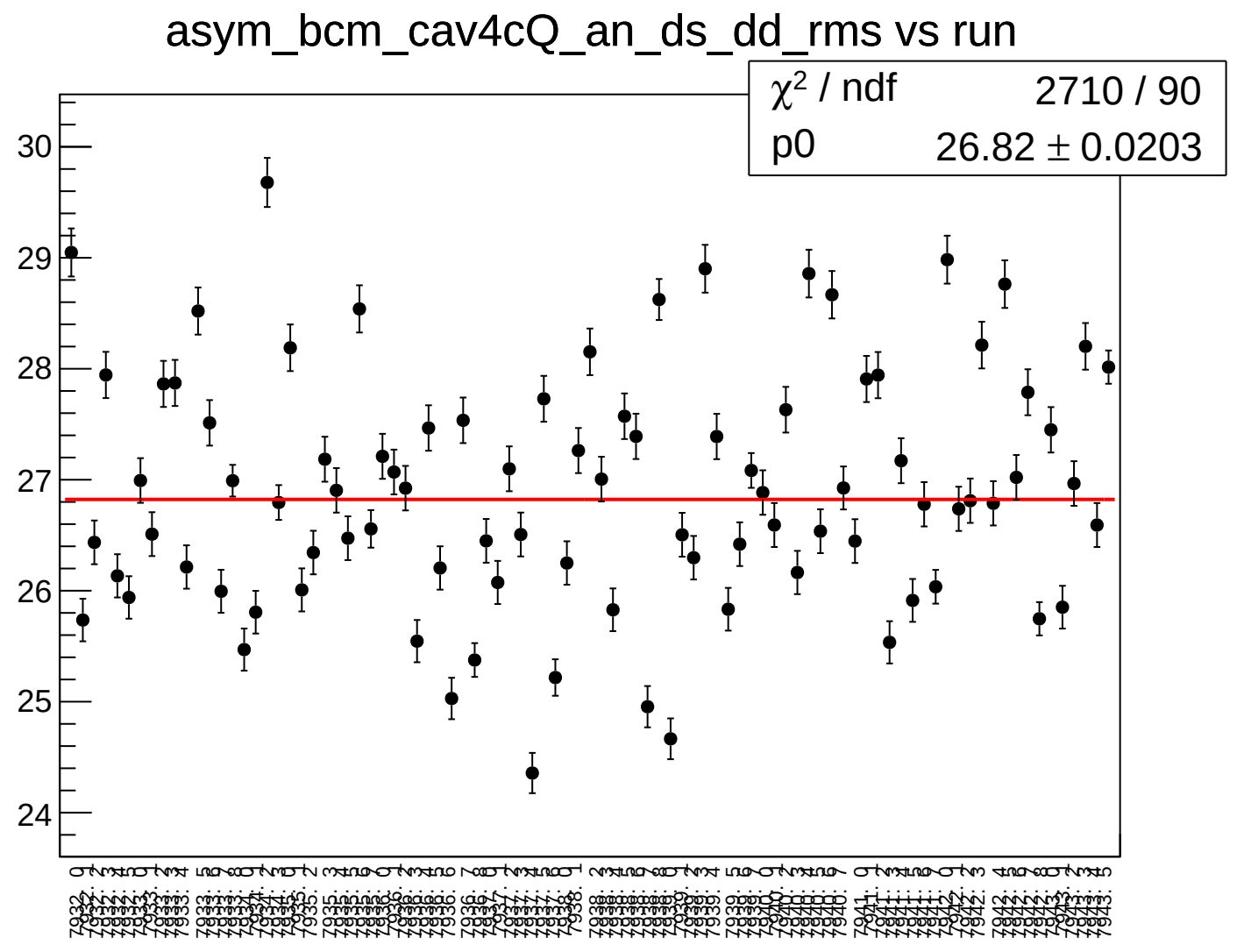

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1996 / 90
p0 23.13 ± 0.01751
25
24
23
22
21

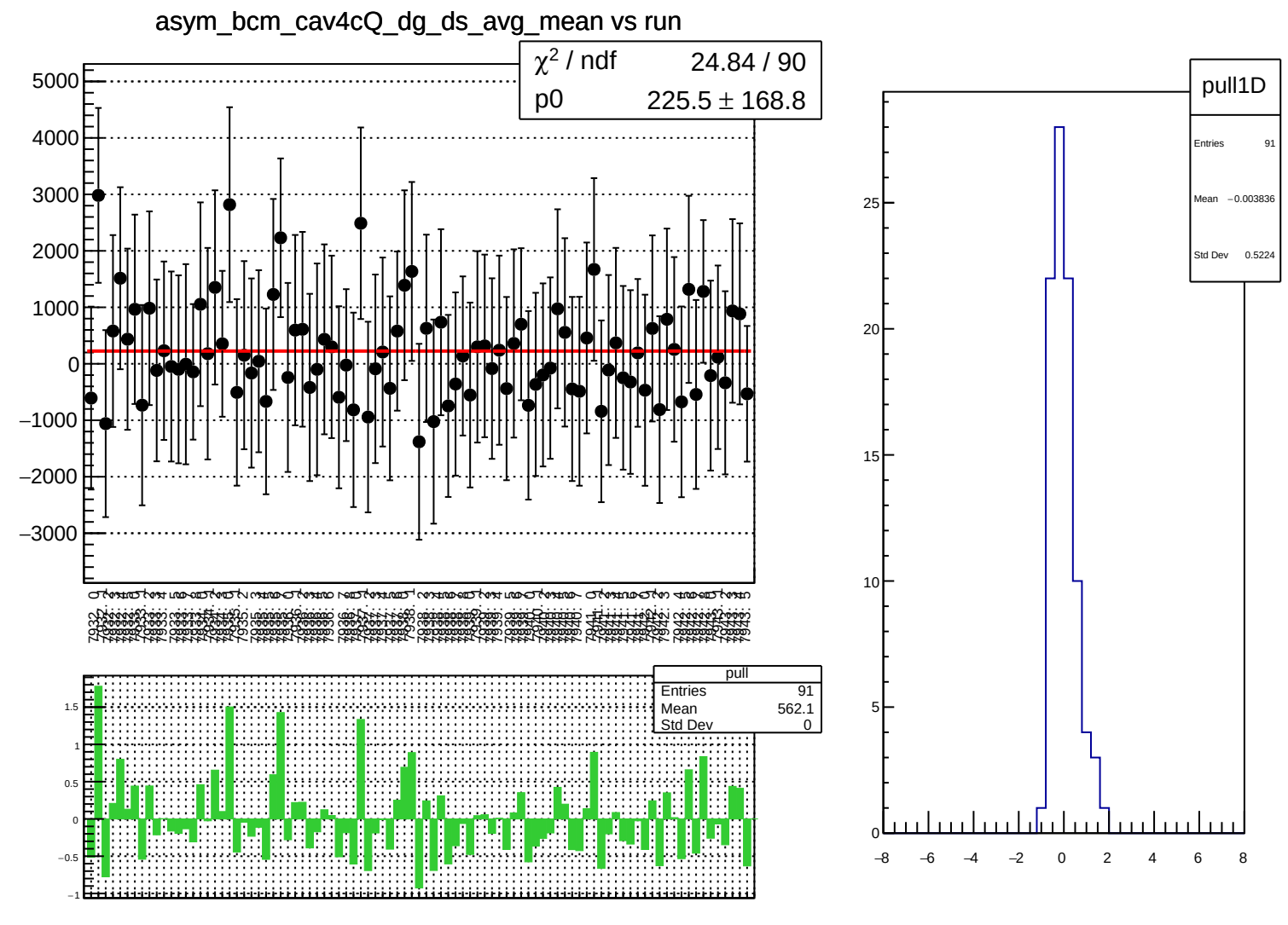

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 24.39 / 90
p0 209.9 ± 168.8
pull
Entries 91
Mean 679.6
Std Dev 0
pull1D
Entries 91
Mean −0.003138
Std Dev 0.5177

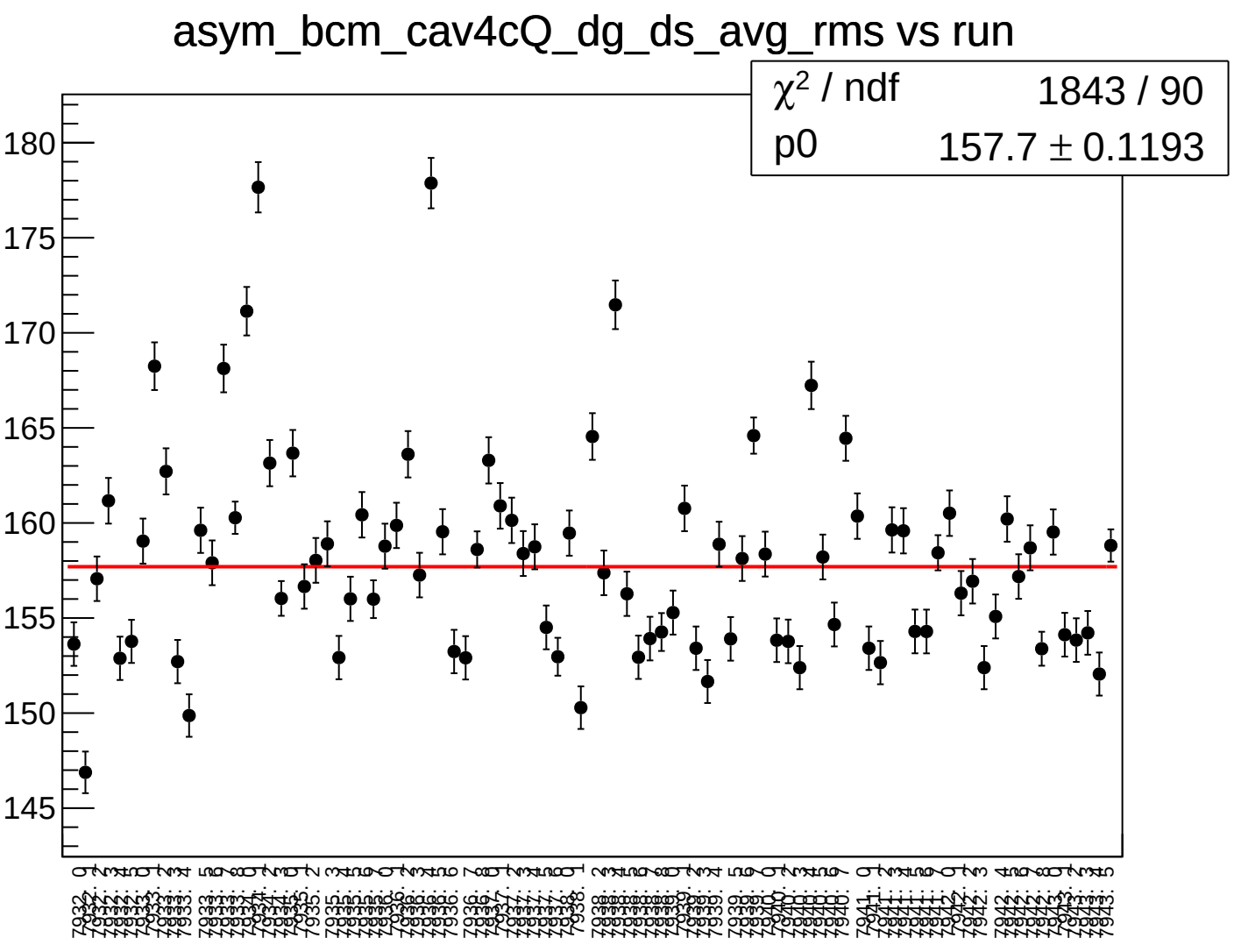

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1859 / 90
p0 157.7 ± 0.1193
180
175
170
165
160
155
150
145

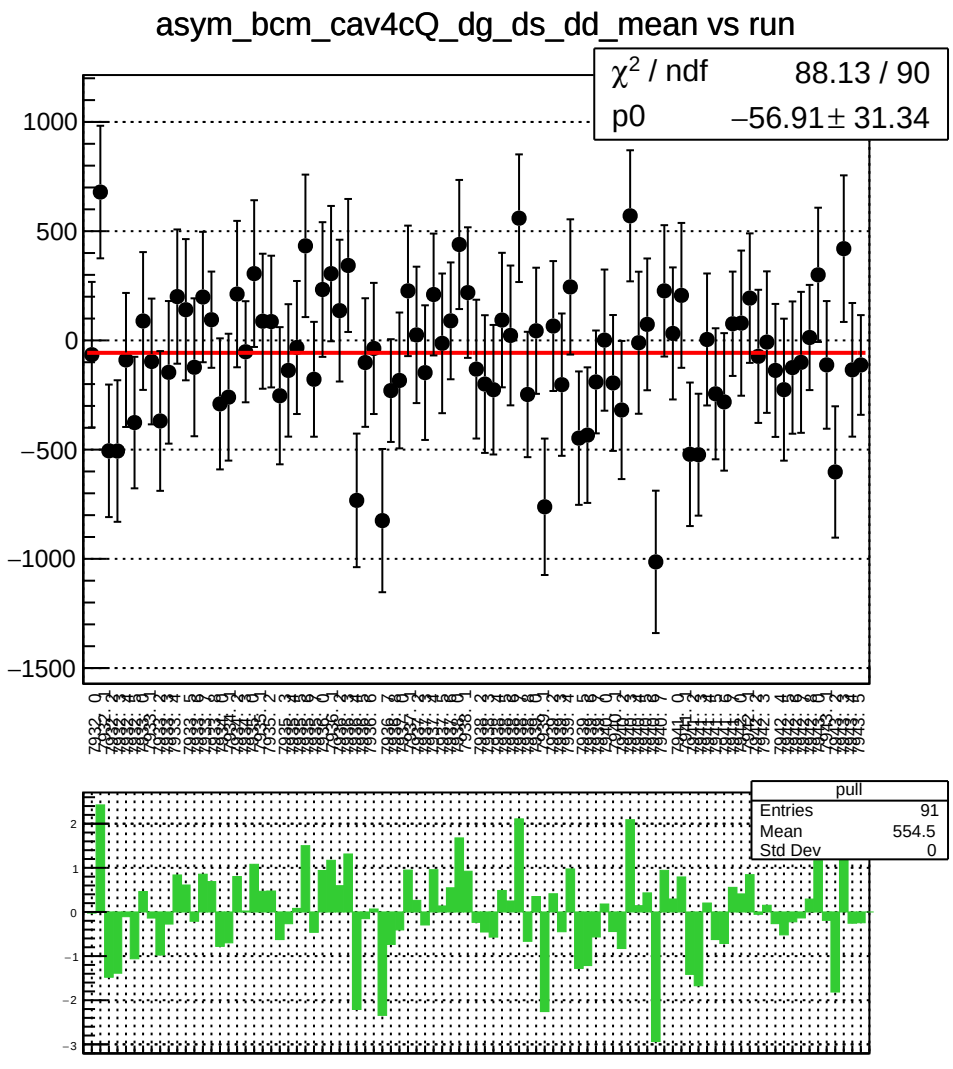

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 95.59 / 90
p0 −42.83 ± 28.71
1000
500
0
−500
−1000
pull
Entries 91
Mean 376.7
Std Dev 0
2
1
0
−1
−2
−3

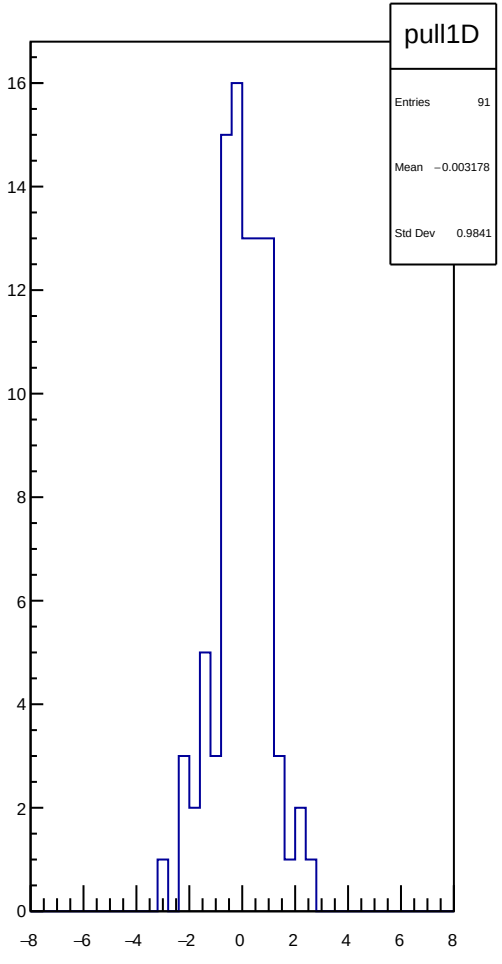

pull1D
Entries 91
Mean −0.005224
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

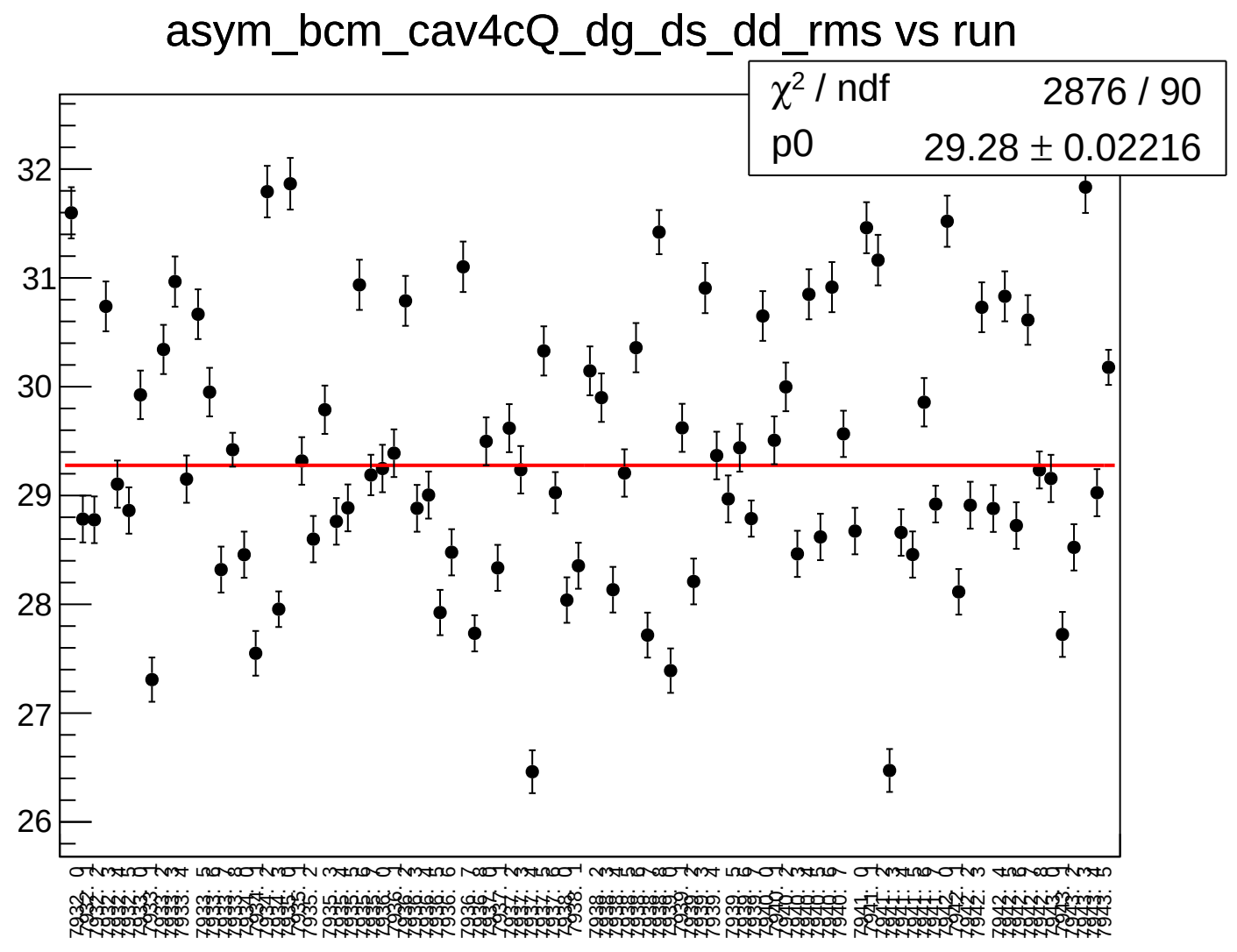

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2710 / 90
p0 26.82 ± 0.0203
30
29
28
27
26
25
24

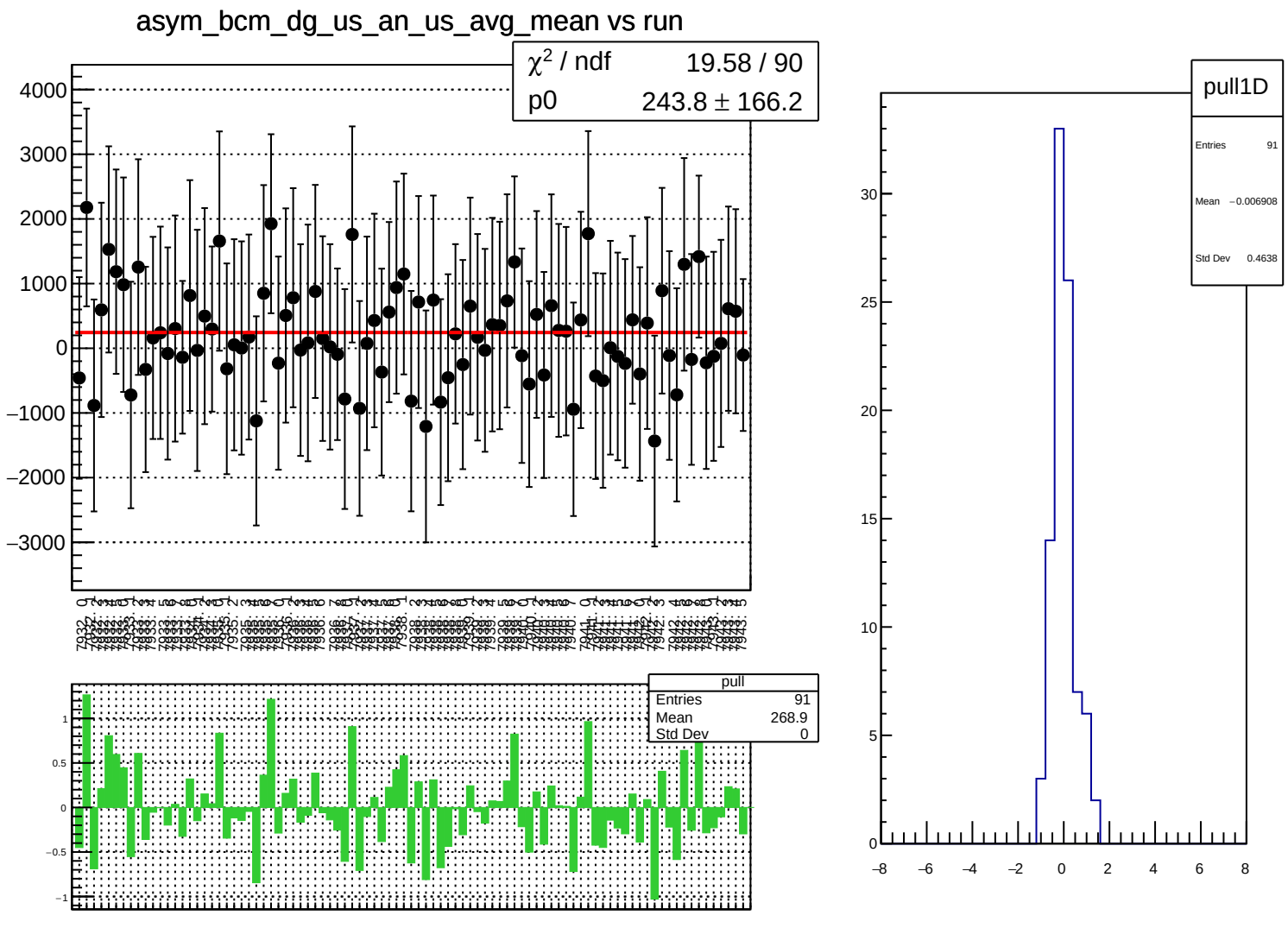

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 24.84 / 90
p0 225.5 ± 168.8
pull
Entries 91
Mean 562.1
Std Dev 0
pull1D
Entries 91
Mean −0.003836
Std Dev 0.5224

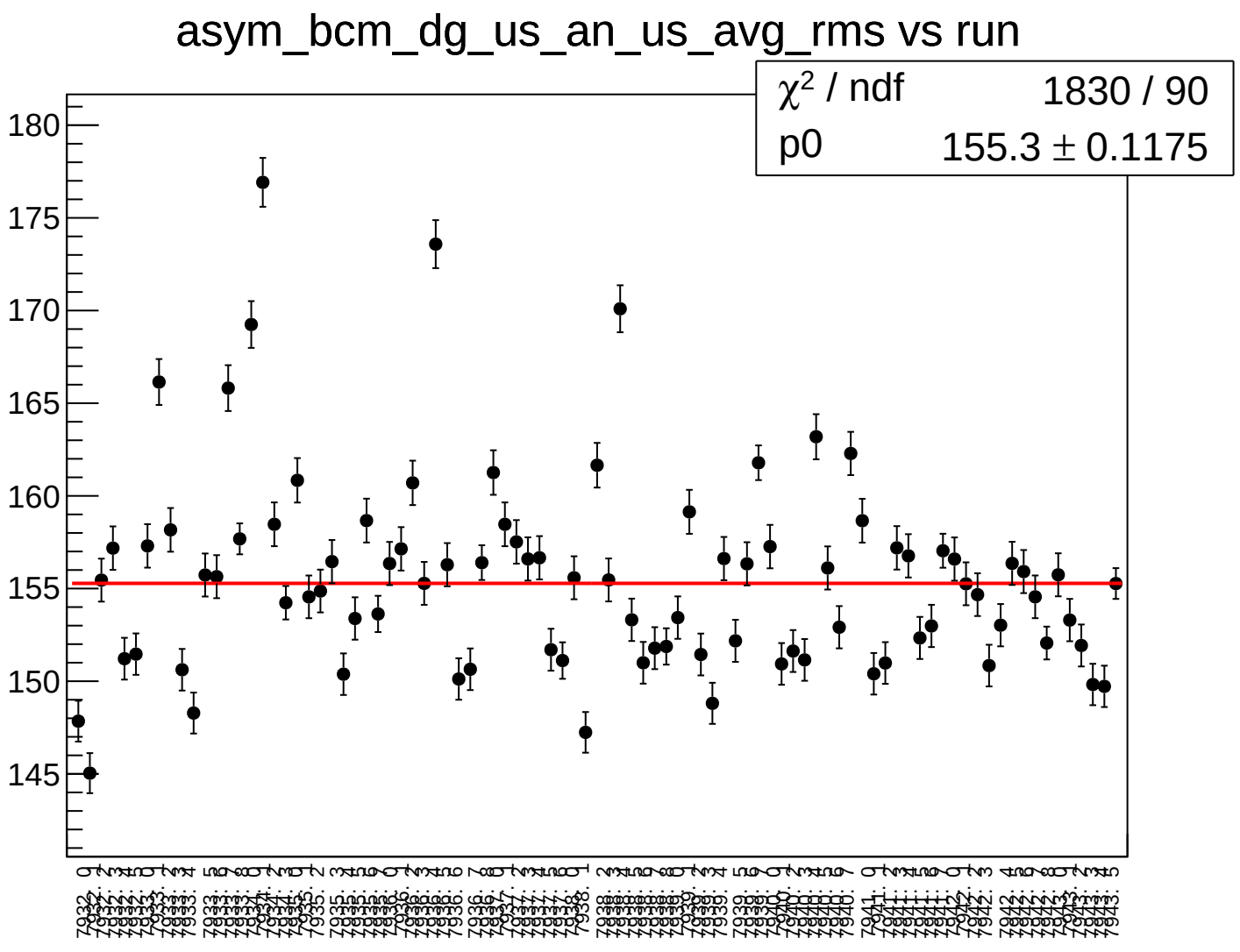

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1843 / 90
p0 157.7 ± 0.1193
180
175
170
165
160
155
150
145

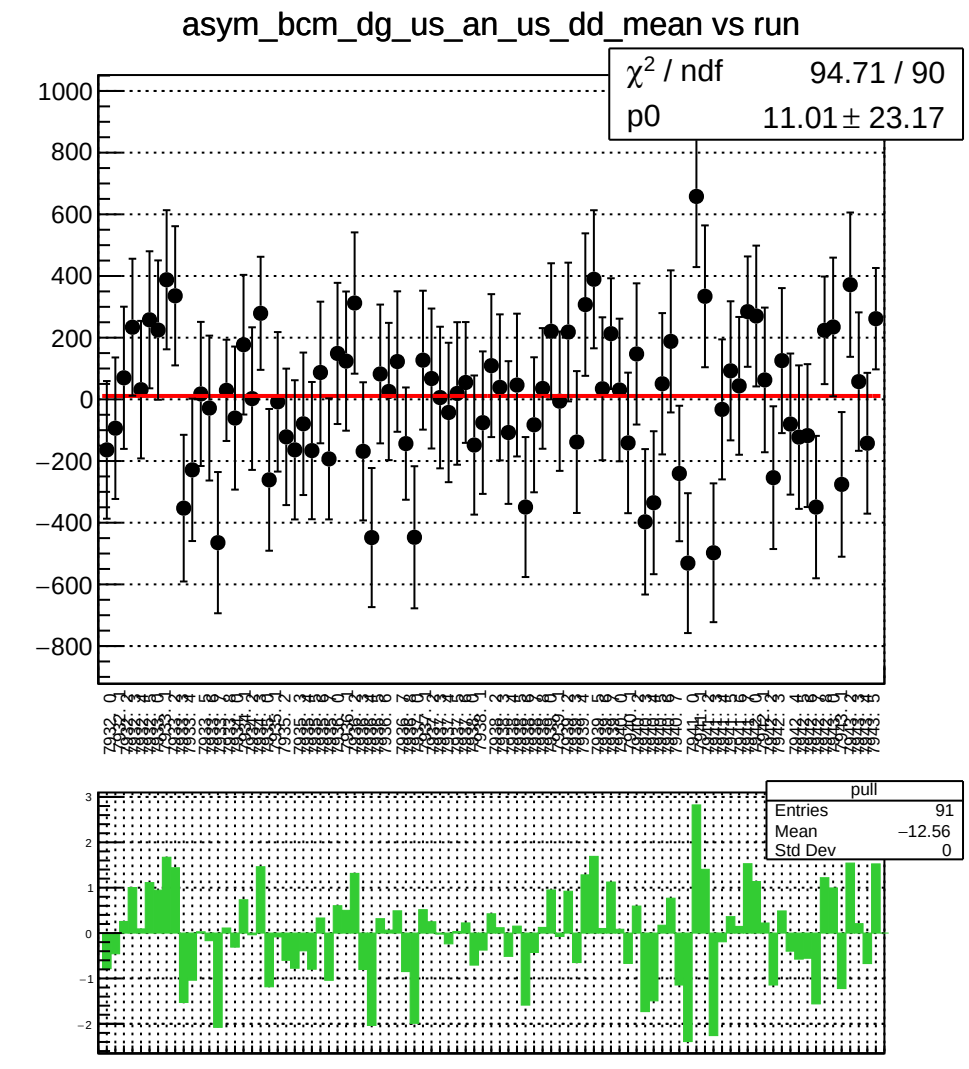

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 88.13 / 90
p0 −56.91 ± 31.34
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 554.5
Std Dev 0
2
1
0
−1
−2
−3

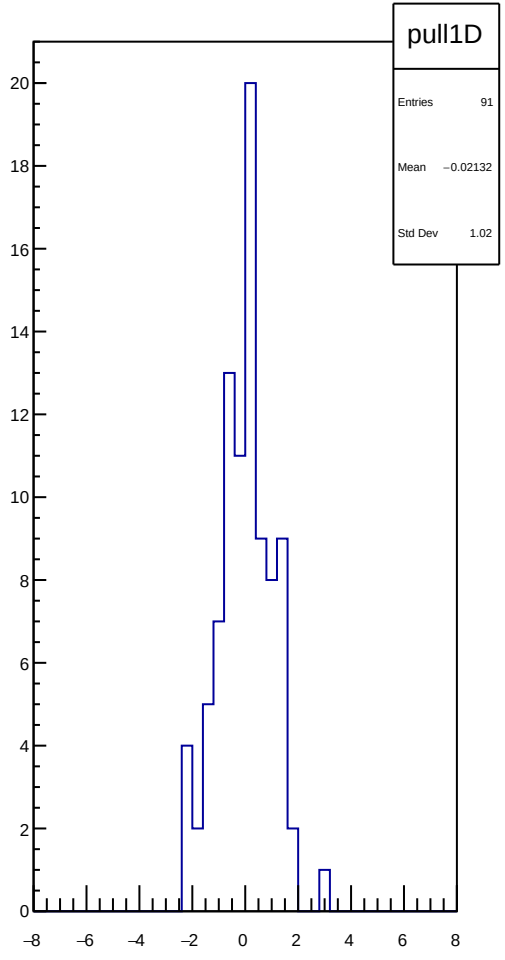

pull1D
Entries 91
Mean −0.003178
Std Dev 0.9841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

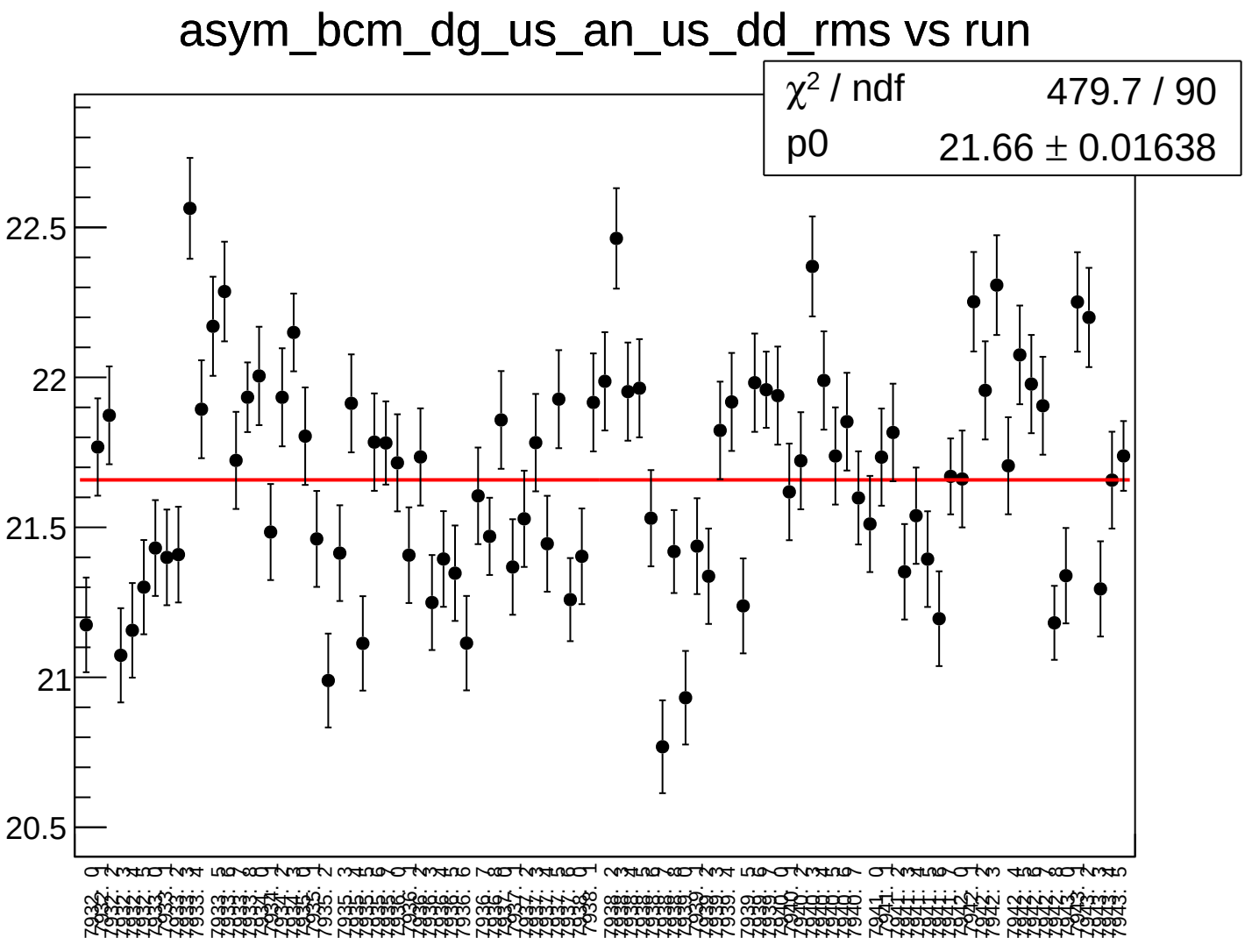

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2876 / 90
p0 29.28 ± 0.02216
32
31
30
29
28
27
26

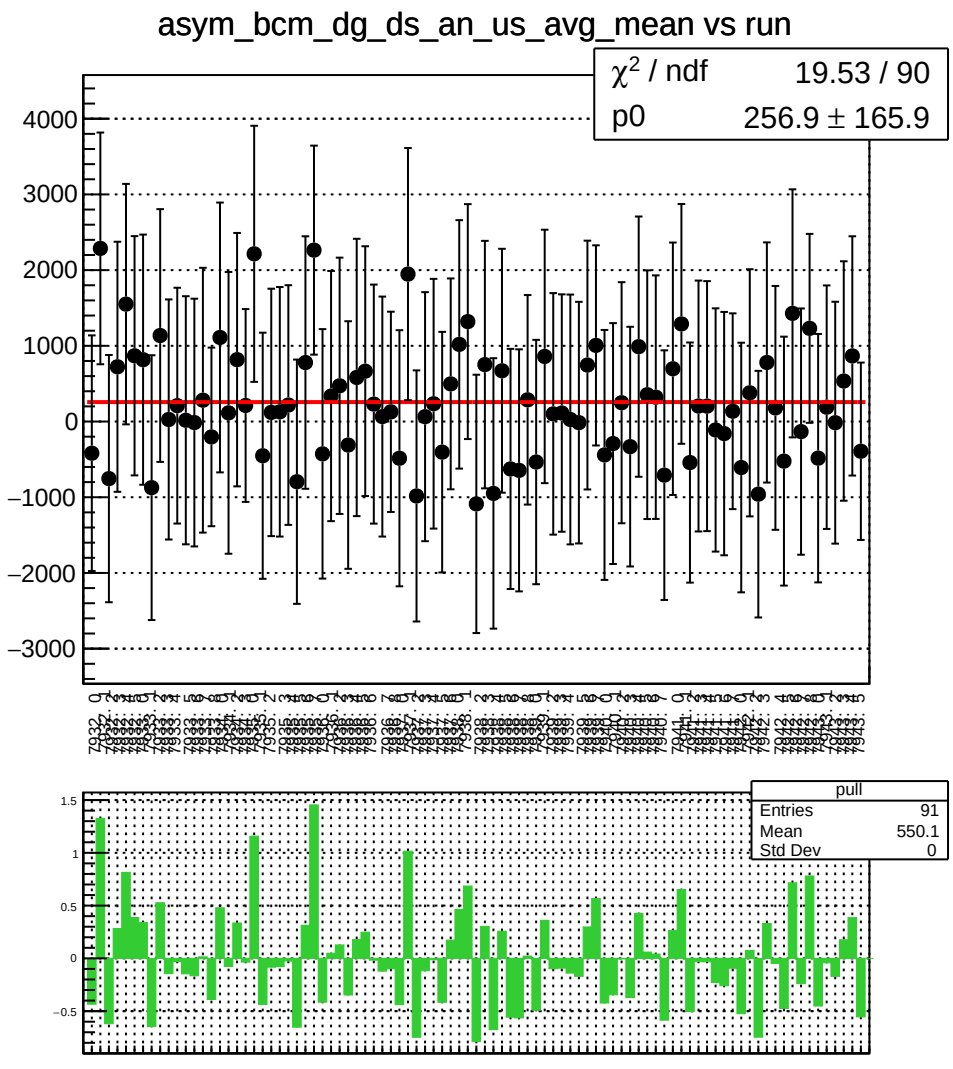

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 19.58 / 90
p0 243.8 ± 166.2
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 268.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.006908
Std Dev 0.4638
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

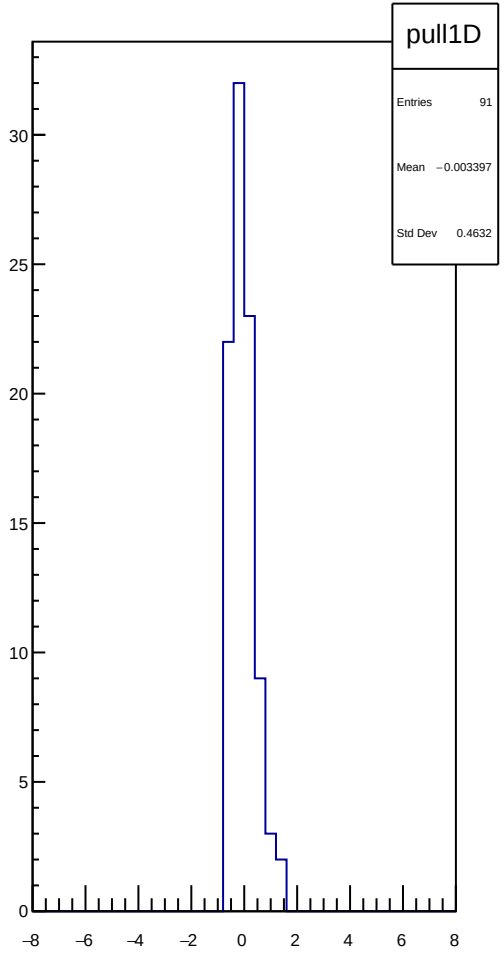

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1830 / 90
p0 155.3 ± 0.1175
180
175
170
165
160
155
150
145

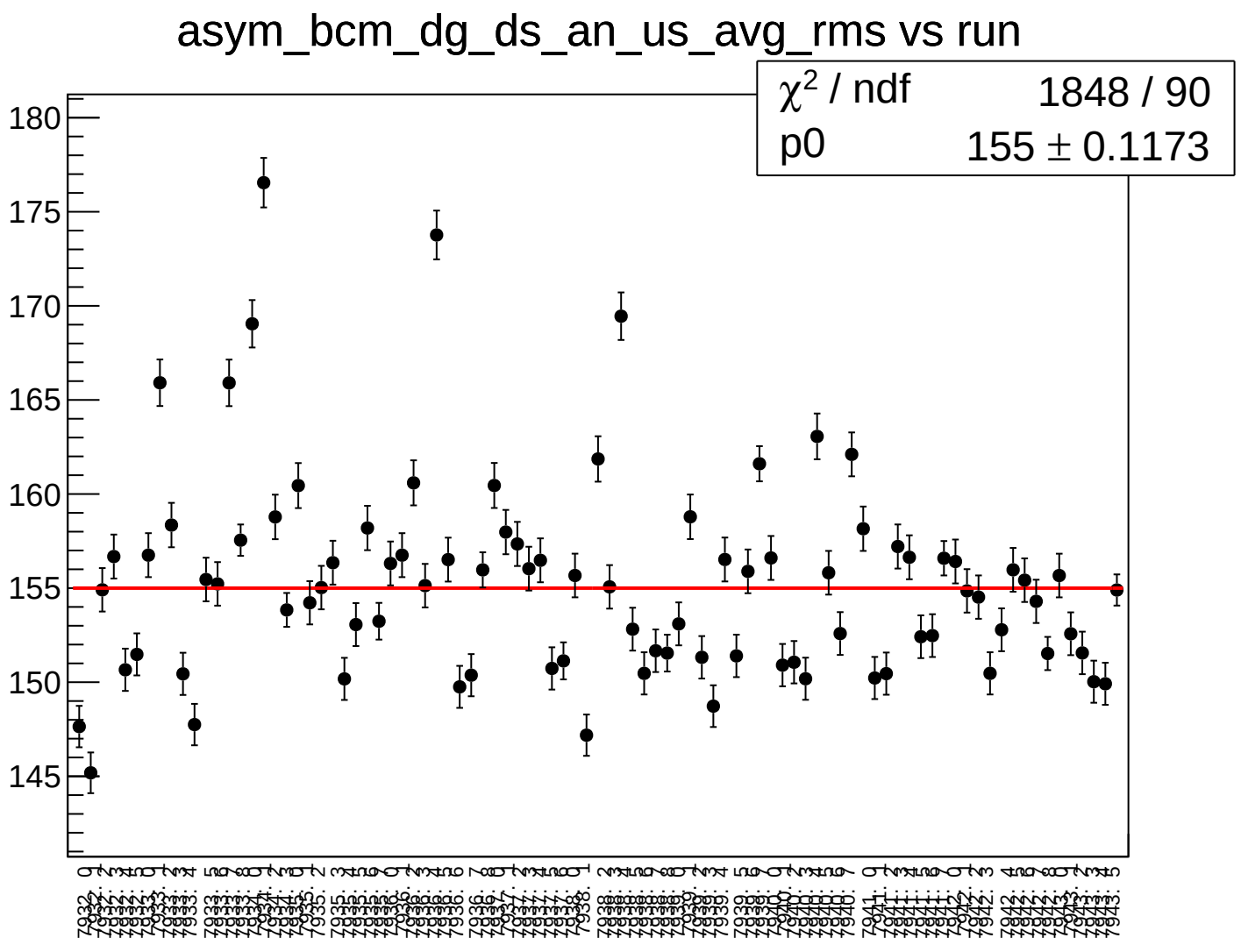

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 94.71 / 90
p0 11.01 ± 23.17
pull
Entries 91
Mean −12.56
Std Dev 0

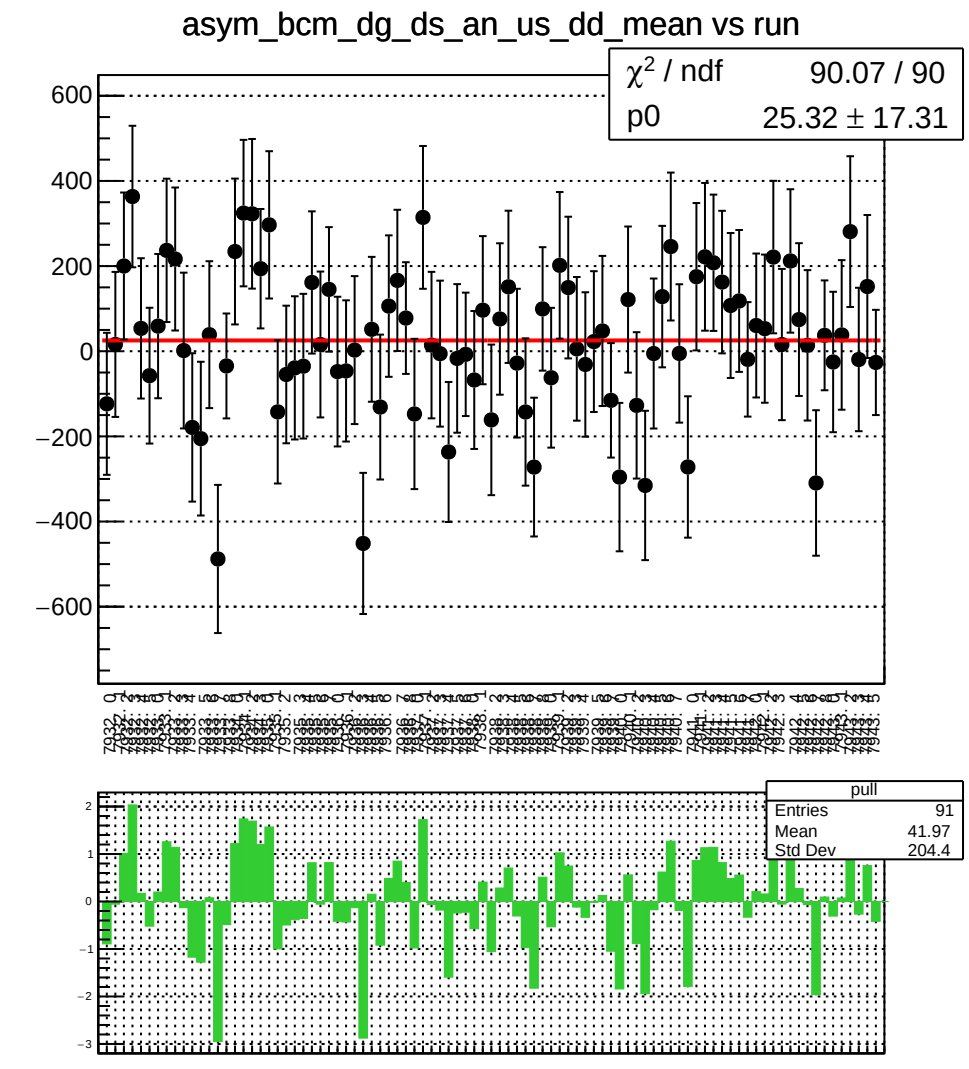

pull1D
Entries 91
Mean −0.02132
Std Dev 1.02

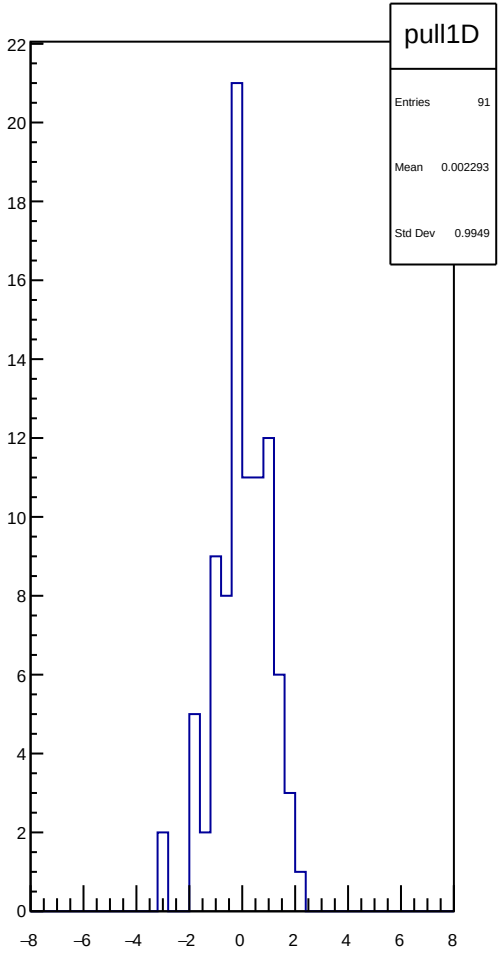

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 479.7 / 90
p0 21.66 ± 0.01638
22.5
22
21.5
21
20.5

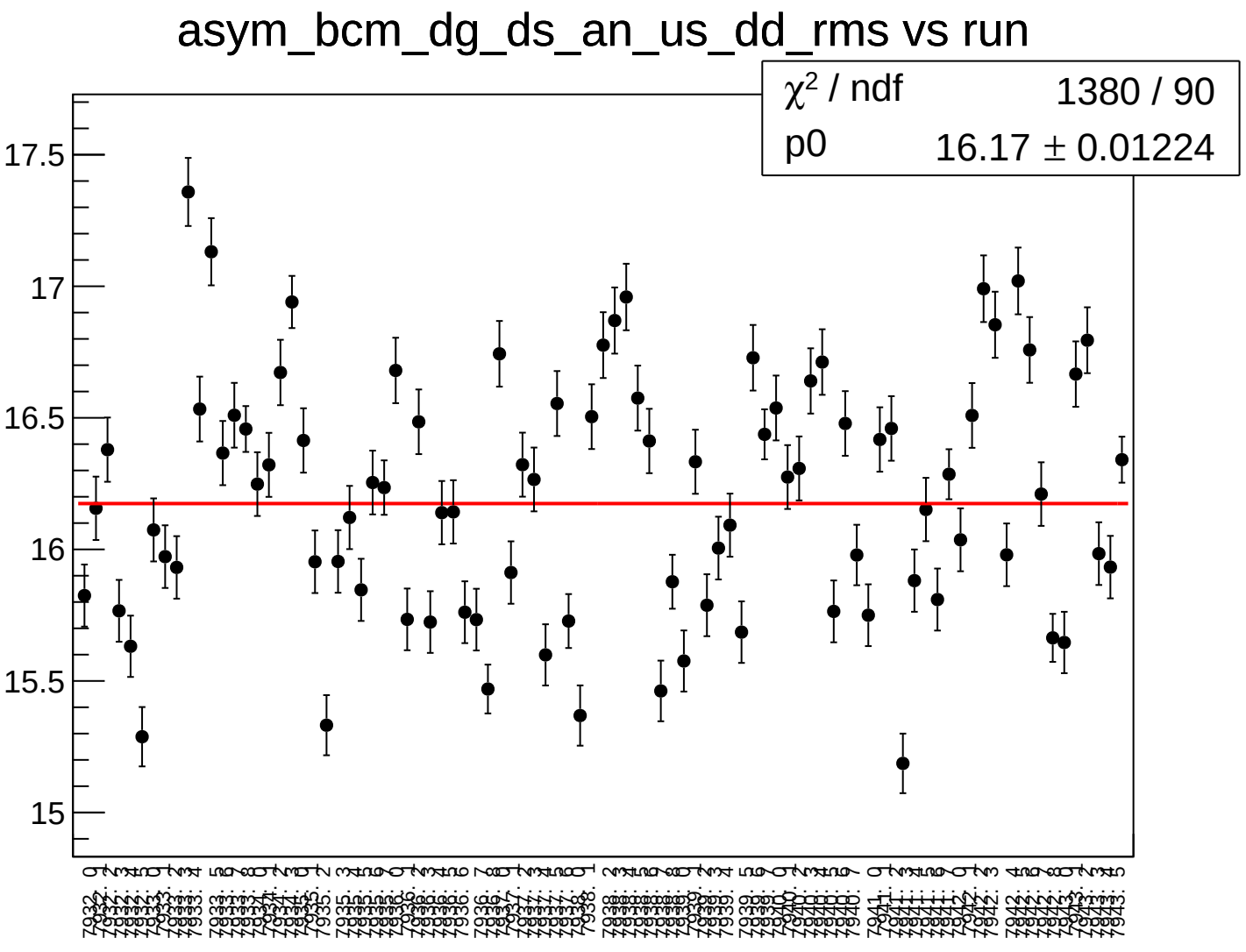

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 19.53 / 90
p0 256.9 ± 165.9
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 550.1
Std Dev 0
1.5
1
0.5
0
−0.5

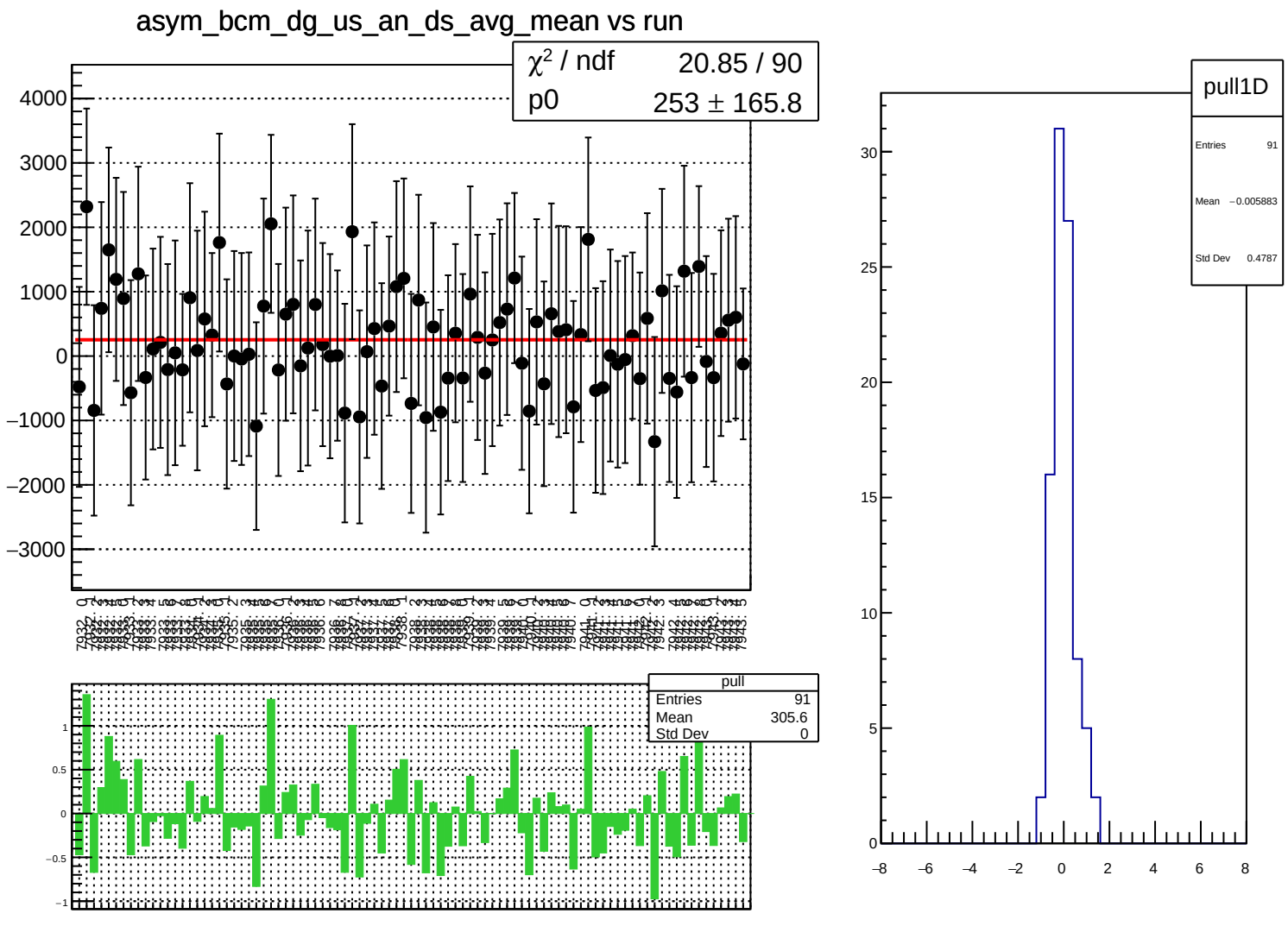

pull1D
Entries 91
Mean −0.003397
Std Dev 0.4632
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

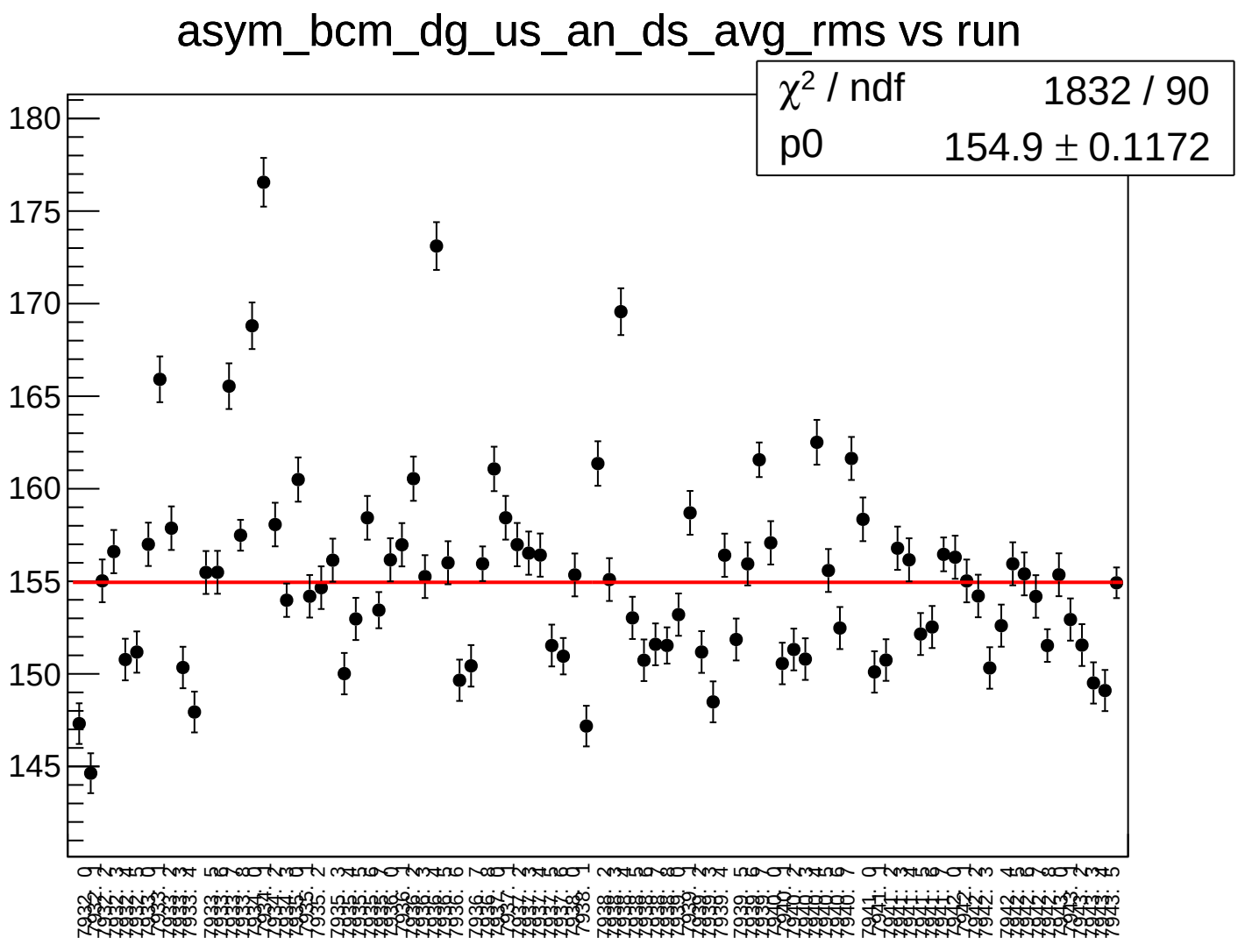

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1848 / 90
p0 155 ± 0.1173
180
175
170
165
160
155
150
145

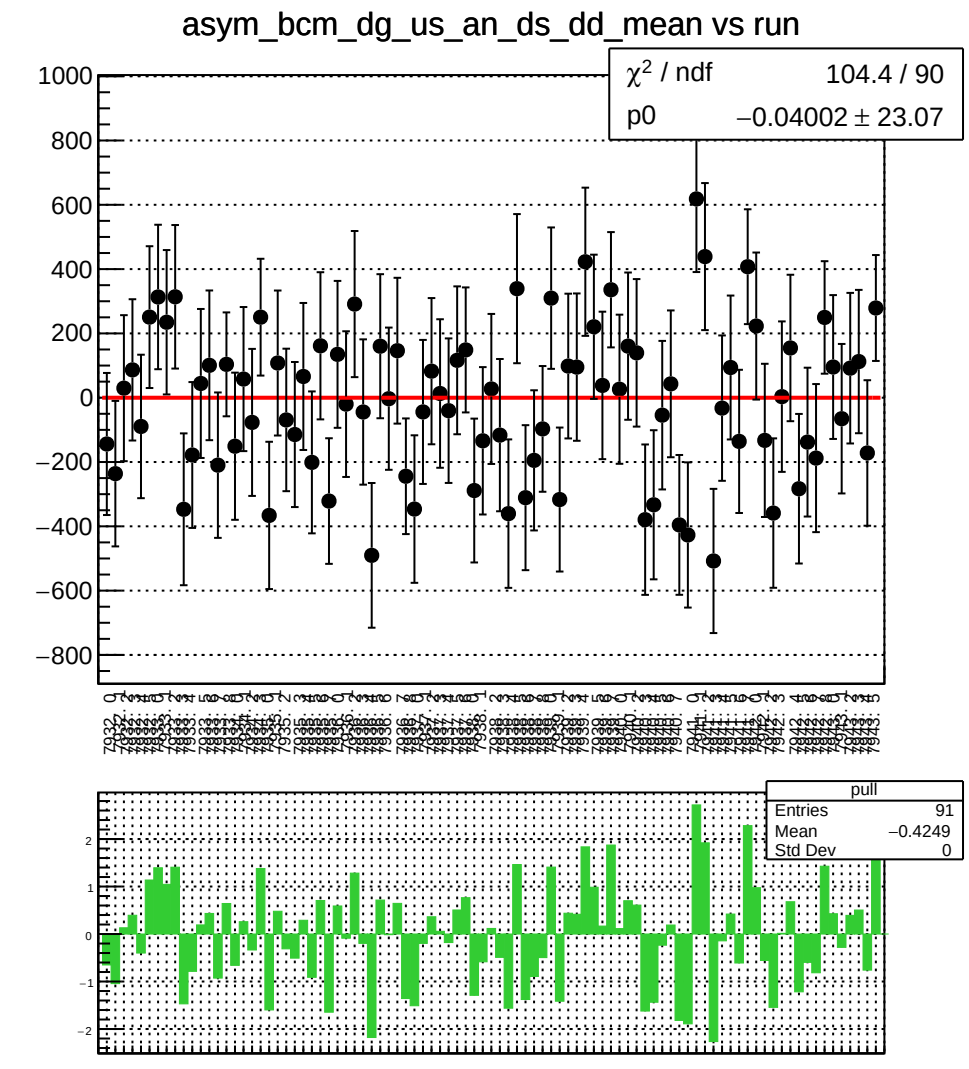

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 90.07 / 90
p0 25.32 ± 17.31
pull
Entries 91
Mean 41.97
Std Dev 204.4

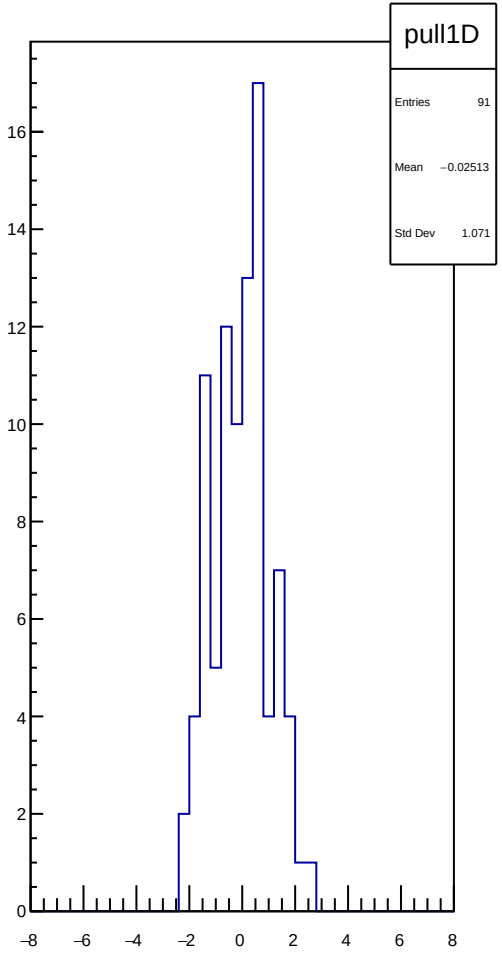

pull1D
Entries 91
Mean 0.002293
Std Dev 0.9949

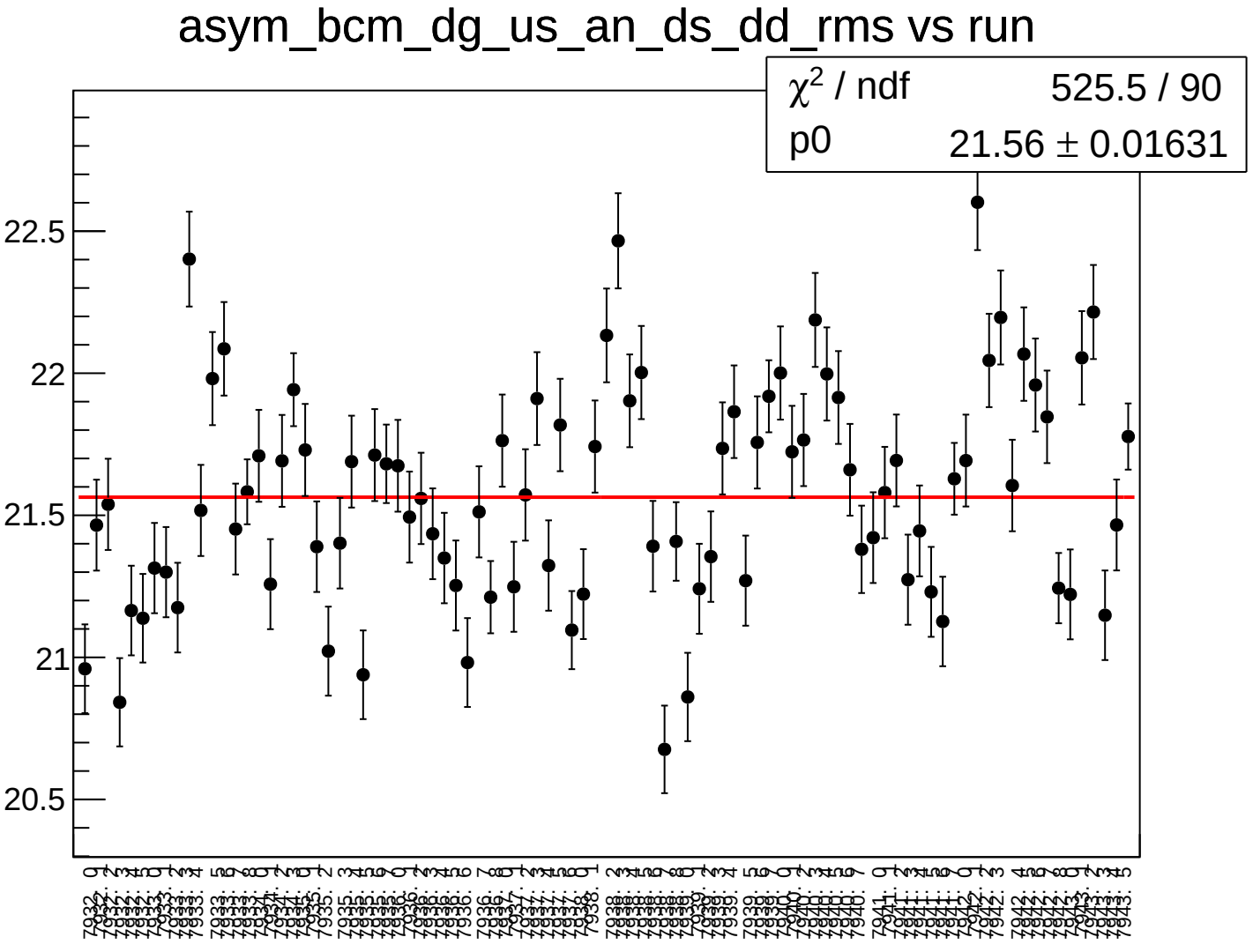

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1380 / 90
p0 16.17 ± 0.01224
17.5
17
16.5
16
15.5
15

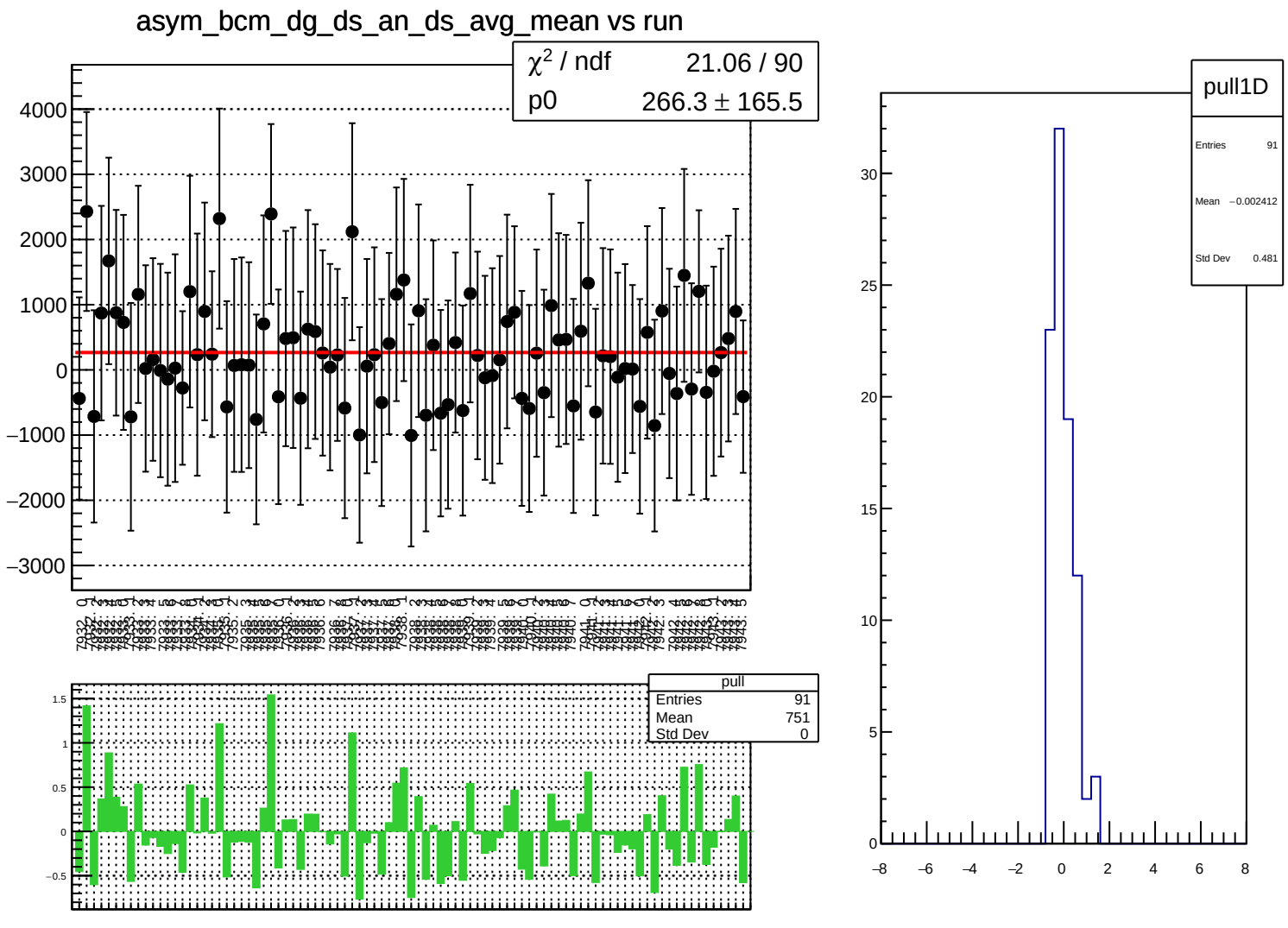

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 20.85 / 90
p0 253 ± 165.8
pull
Entries 91
Mean 305.6
Std Dev 0
pull1D
Entries 91
Mean −0.005883
Std Dev 0.4787

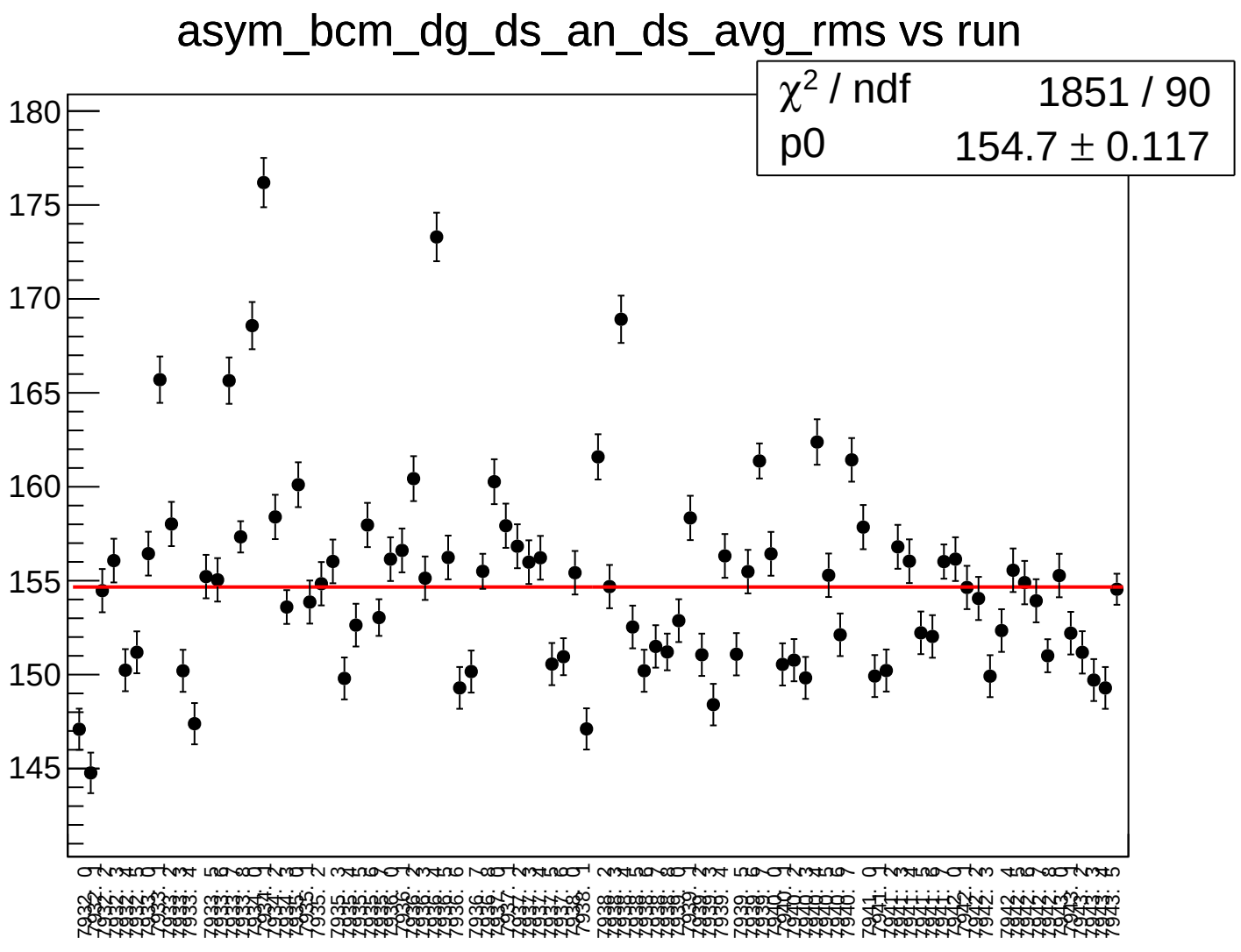

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1832 / 90
p0 154.9 ± 0.1172
180
175
170
165
160
155
150
145

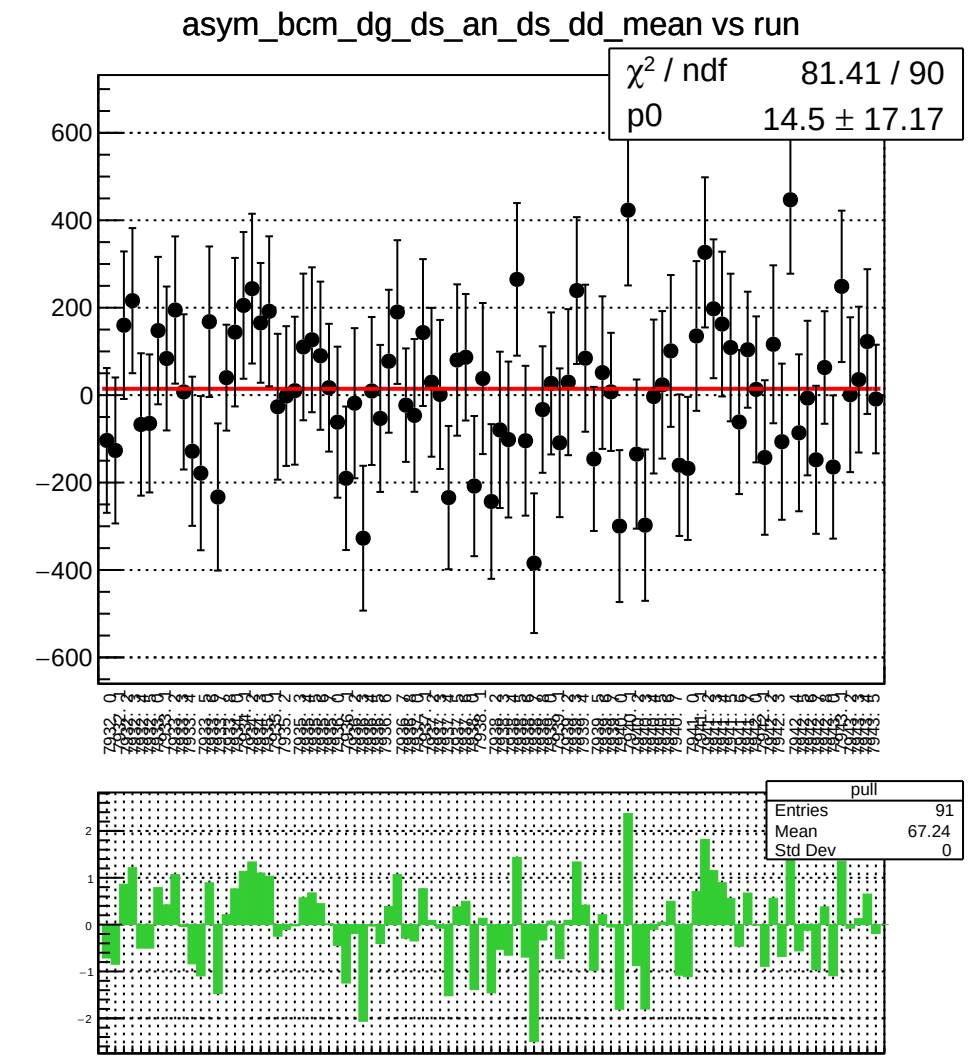

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 104.4 / 90
p0 −0.04002 ± 23.07
pull
Entries 91
Mean −0.4249
Std Dev 0

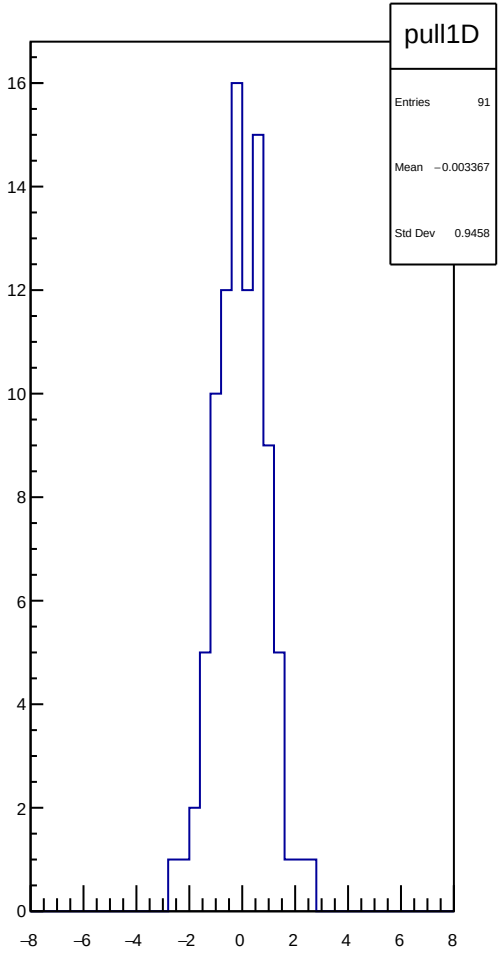

pull1D
Entries 91
Mean −0.02513
Std Dev 1.071

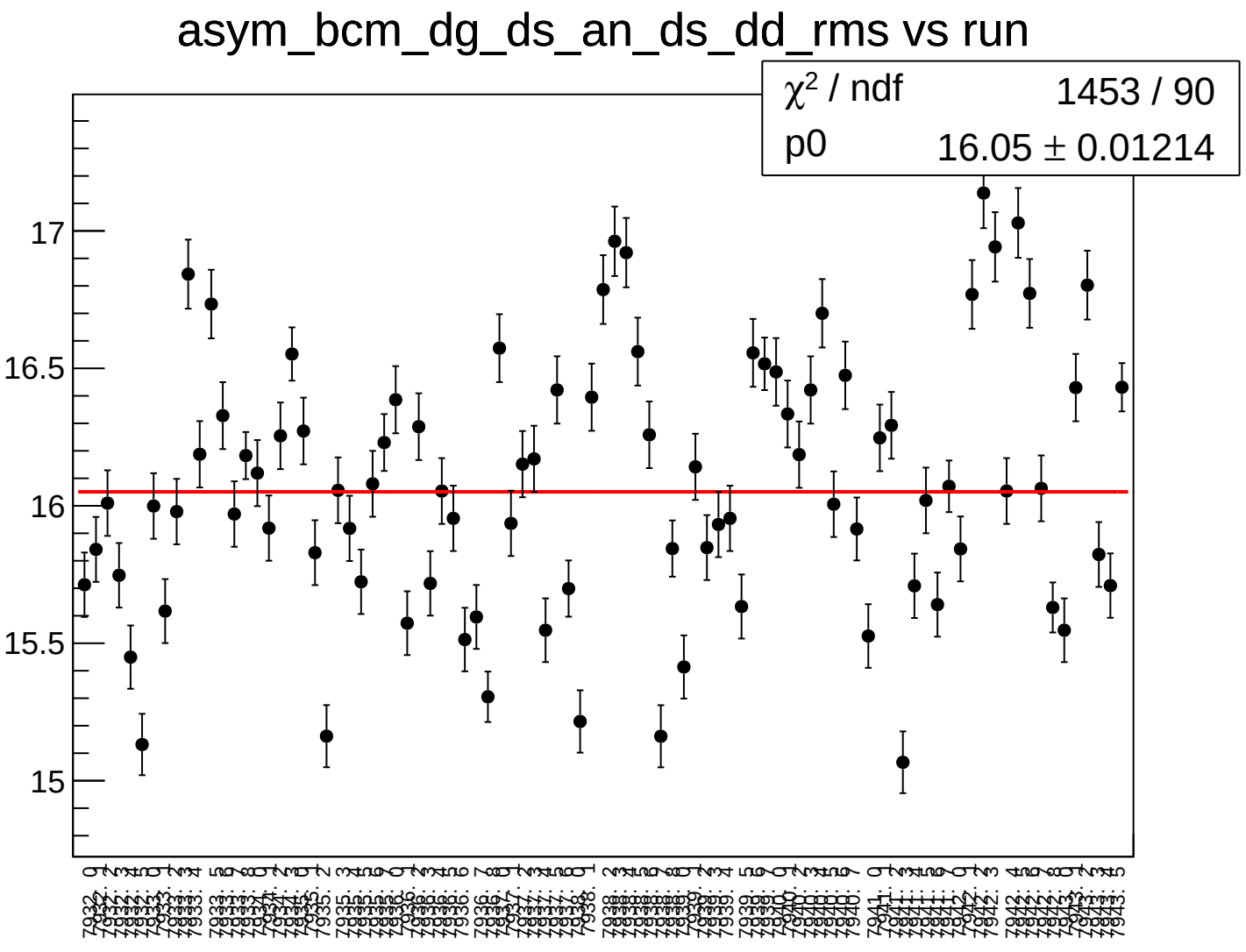

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 525.5 / 90
p0 21.56 ± 0.01631
22.5
22
21.5
21
20.5

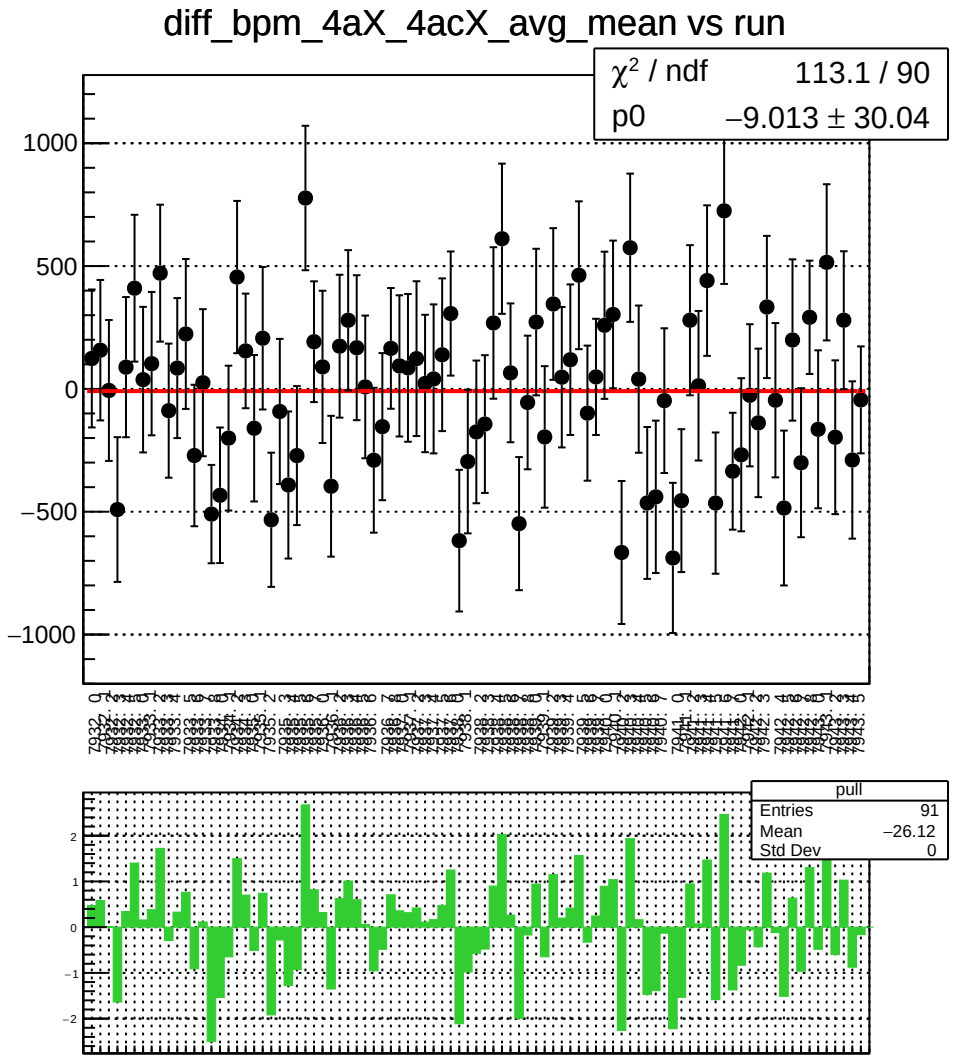

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 21.06 / 90
p0 266.3 ± 165.5
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 751
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.002412
Std Dev 0.481
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

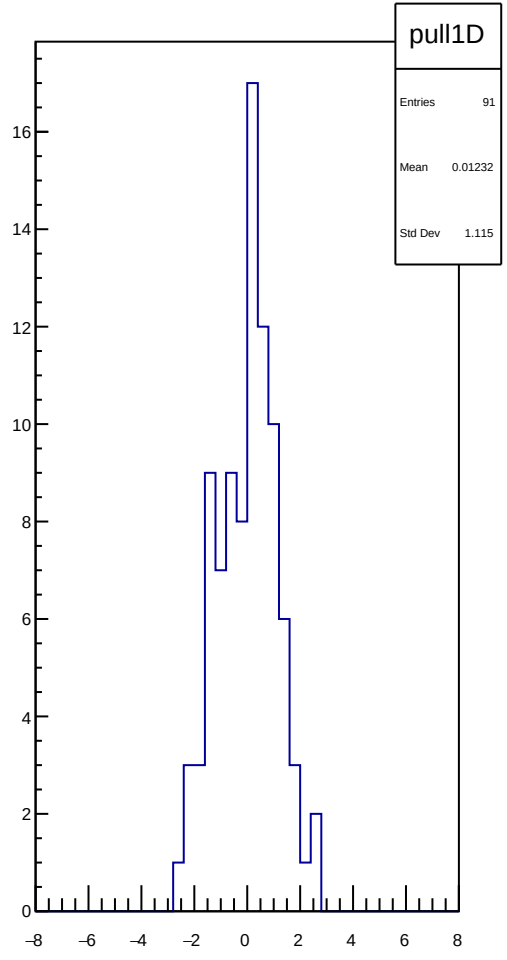

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1851 / 90
p0 154.7 ± 0.117
180
175
170
165
160
155
150
145

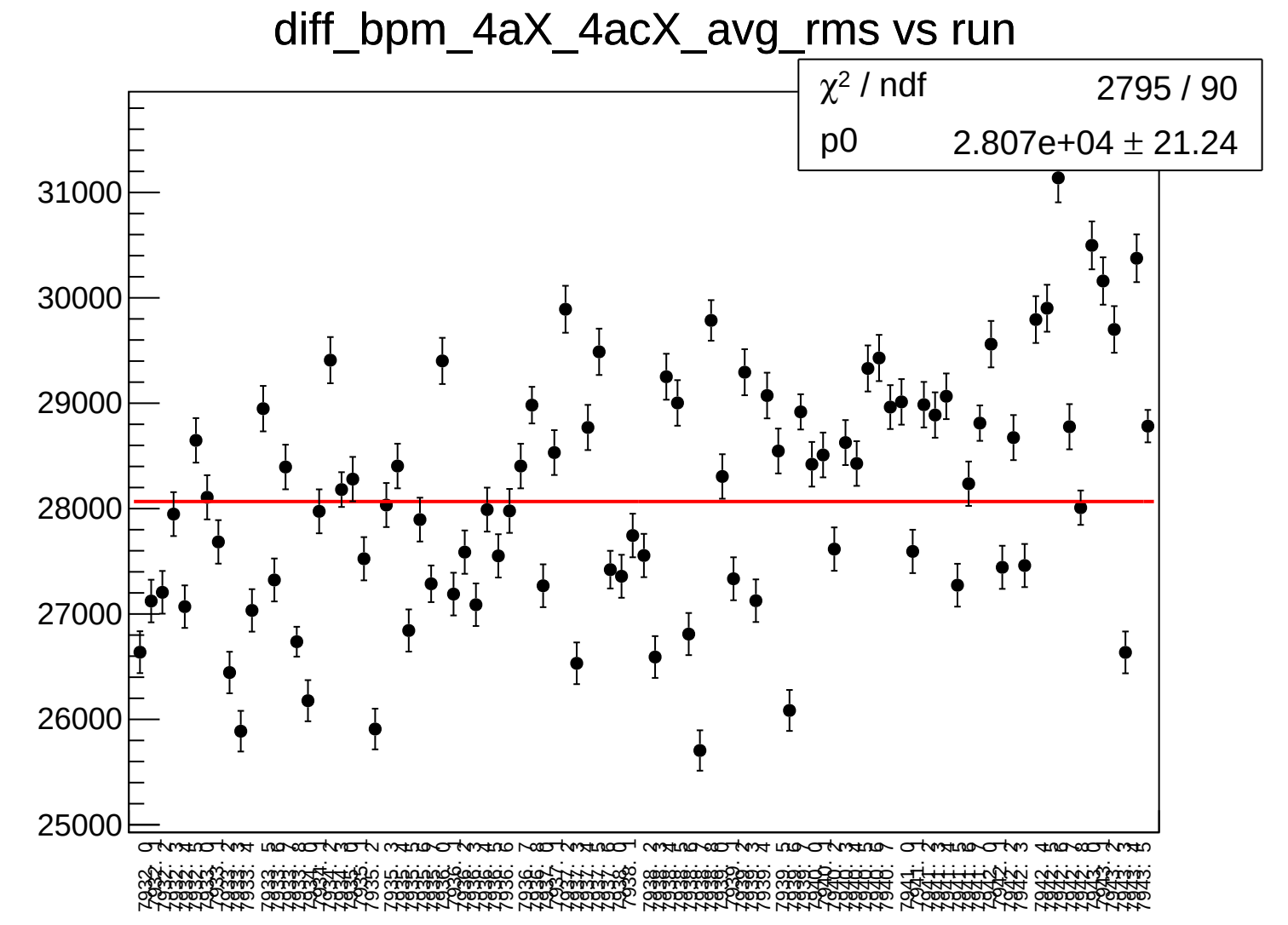

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 81.41 / 90
p0 14.5 ± 17.17
pull
Entries 91
Mean 67.24
Std Dev 0

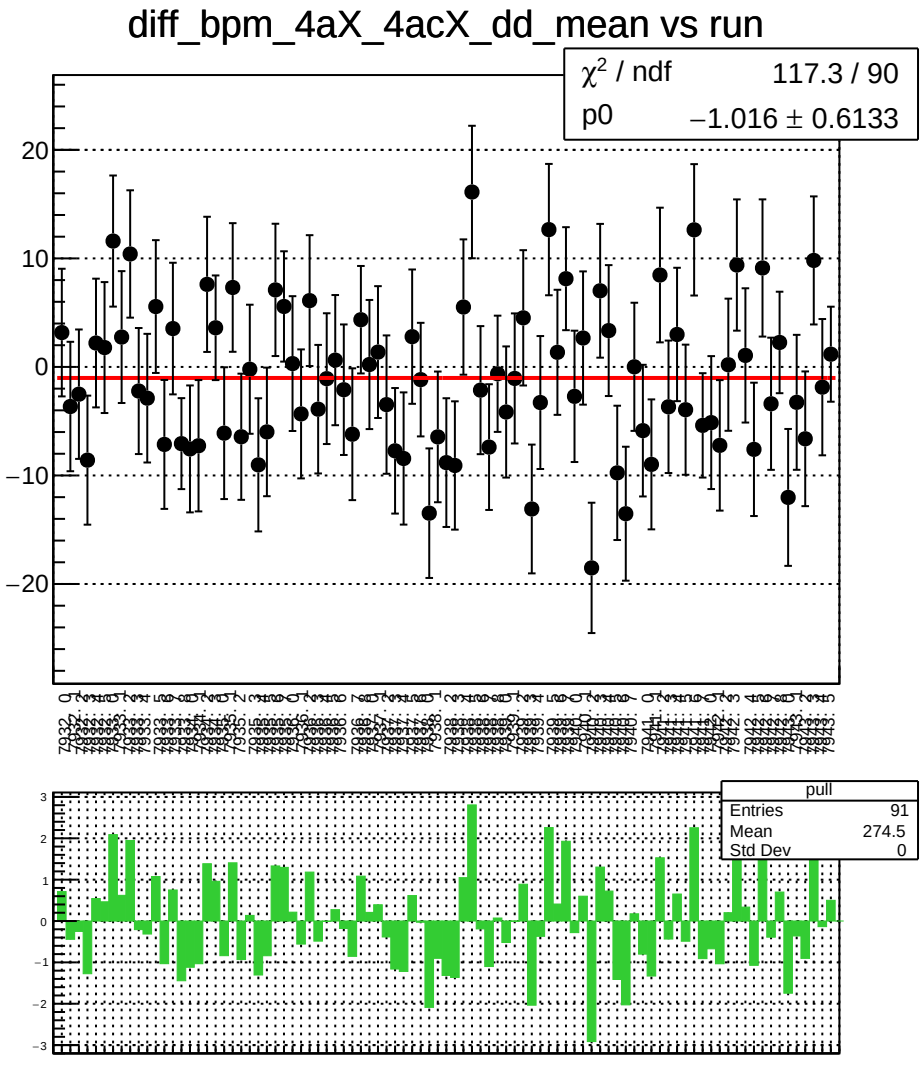

pull1D
Entries 91
Mean −0.003367
Std Dev 0.9458

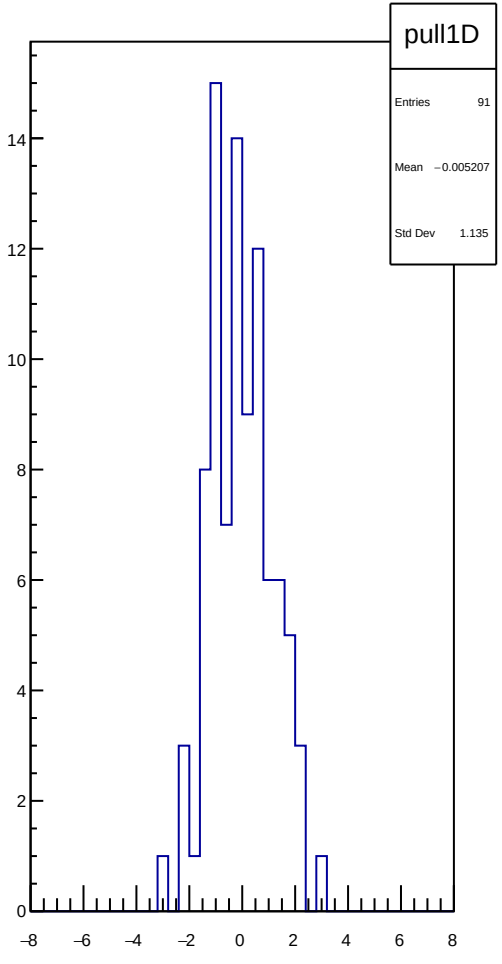

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1453 / 90
p0 16.05 ± 0.01214
17
16.5
16
15.5
15

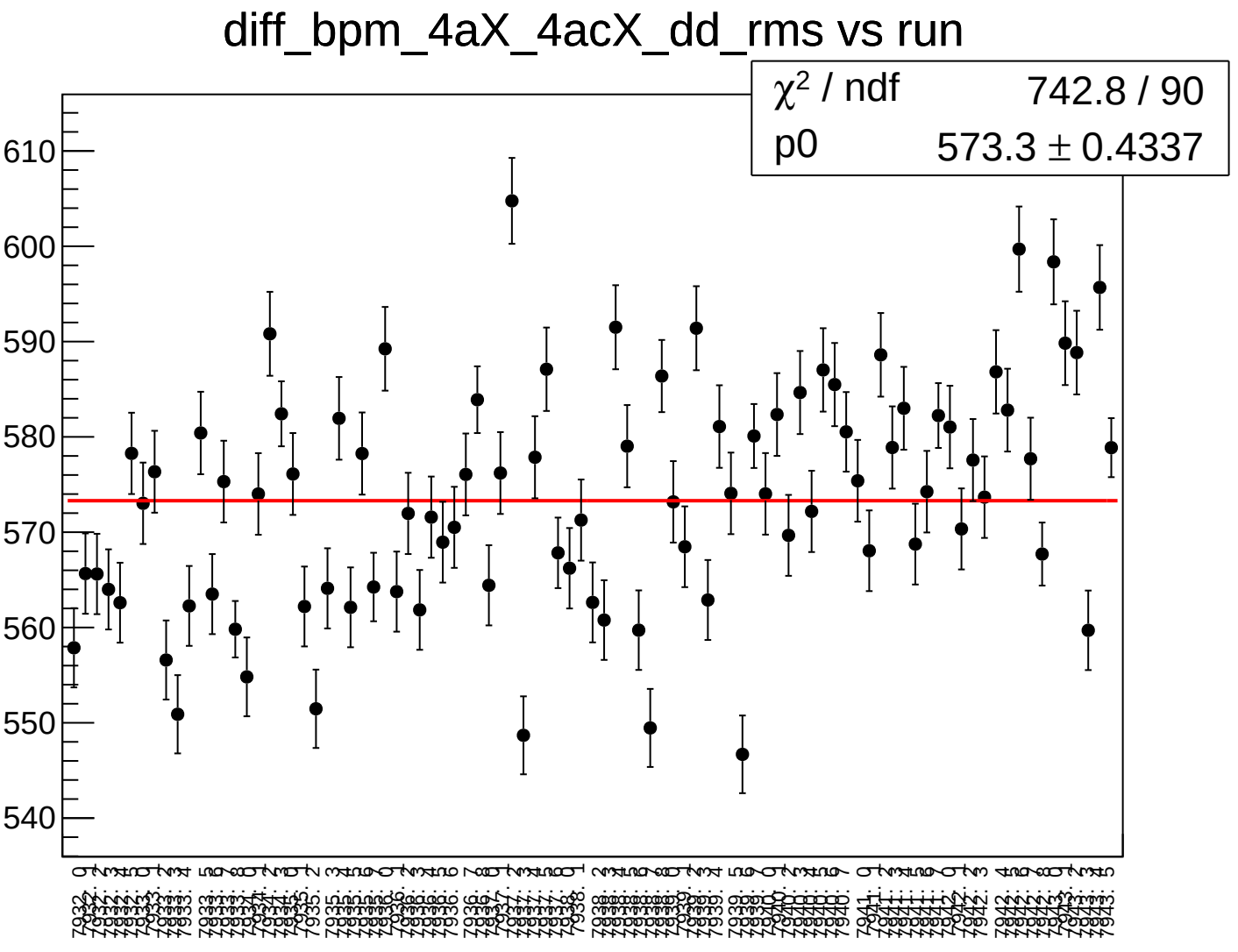

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 113.1 / 90
p0 −9.013 ± 30.04
1000
500
0
−500
−1000
pull
Entries 91
Mean −26.12
Std Dev 0
2
1
0
−1
−2

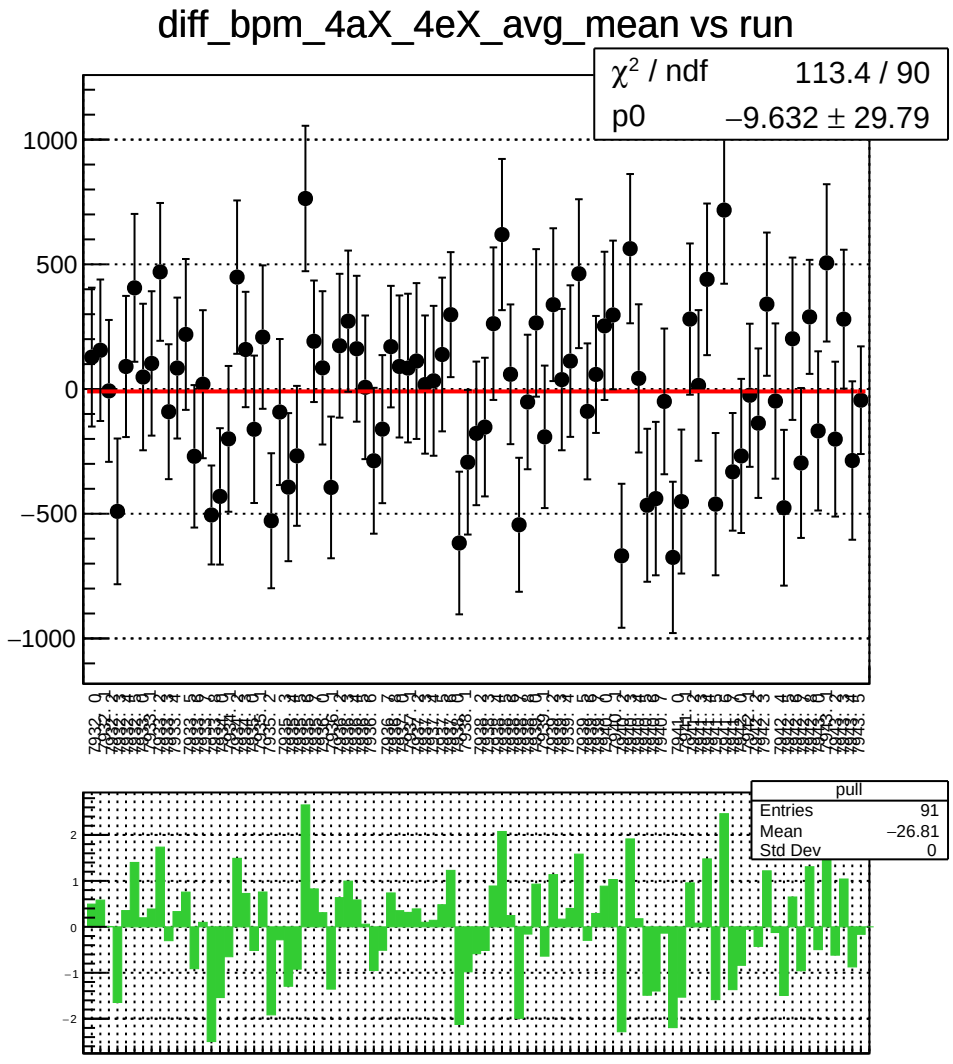

pull1D
Entries 91
Mean 0.01232
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

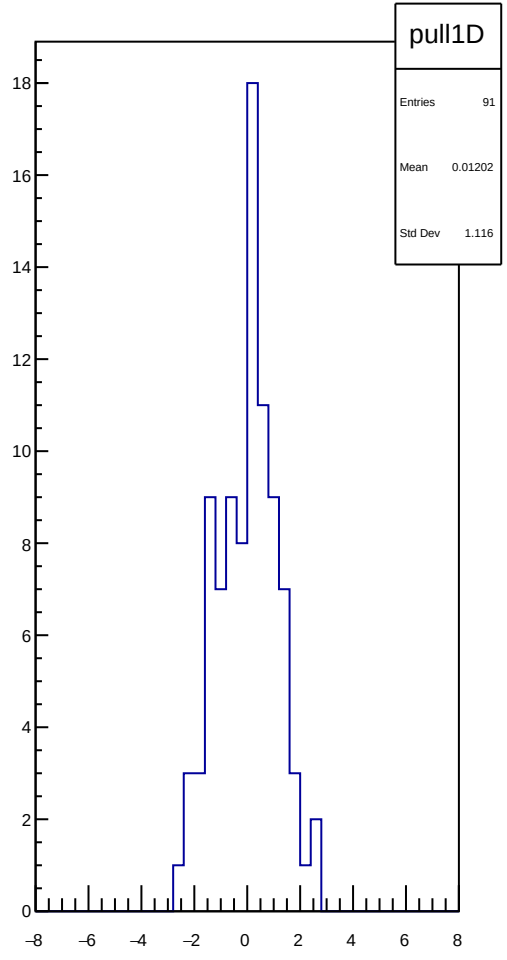

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2795 / 90
p0 2.807e+04 ± 21.24
31000
30000
29000
28000
27000
26000
25000

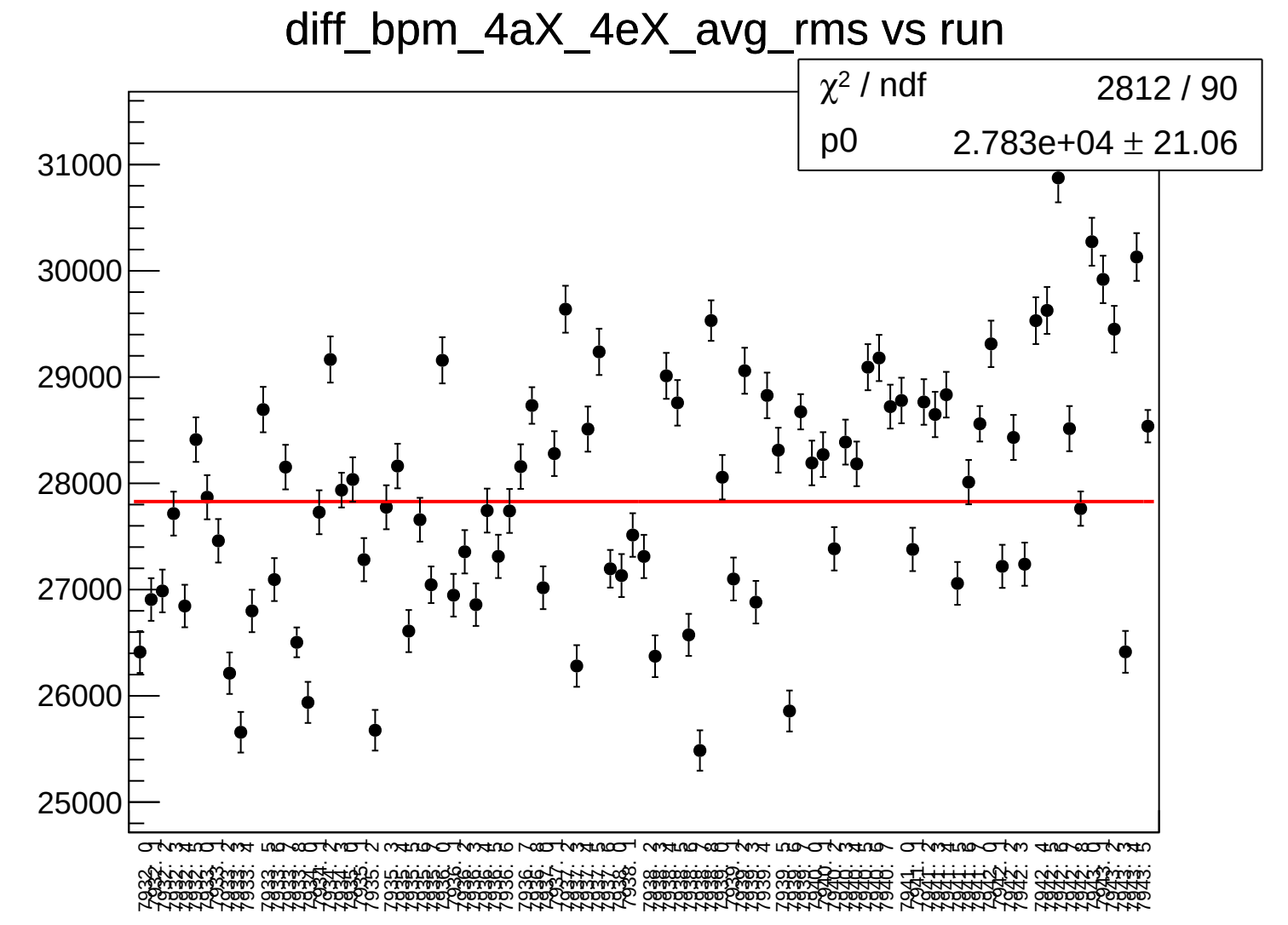

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 117.3 / 90
p0 −1.016 ± 0.6133
pull
Entries 91
Mean 274.5
Std Dev 0

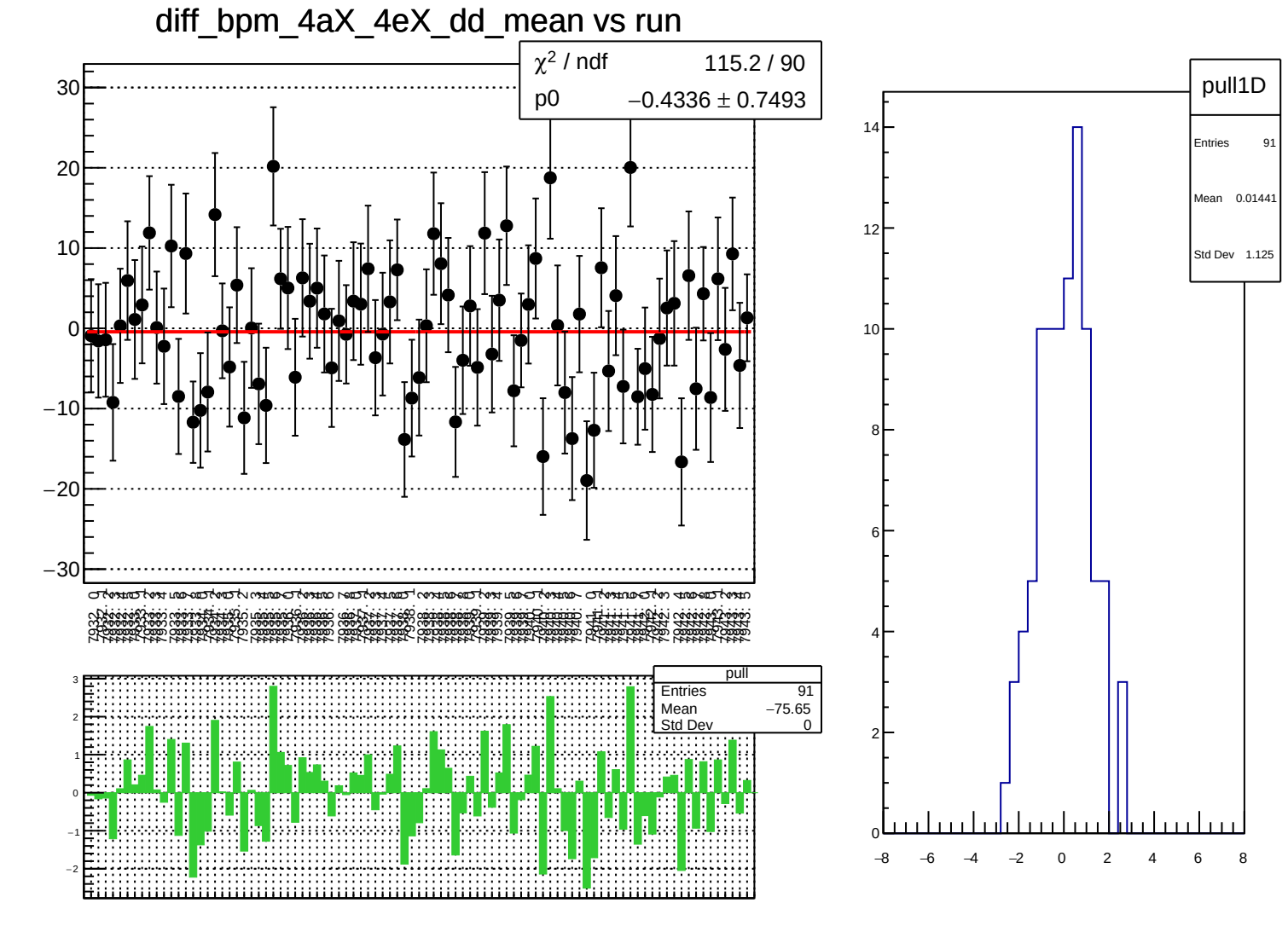

pull1D
Entries 91
Mean −0.005207
Std Dev 1.135

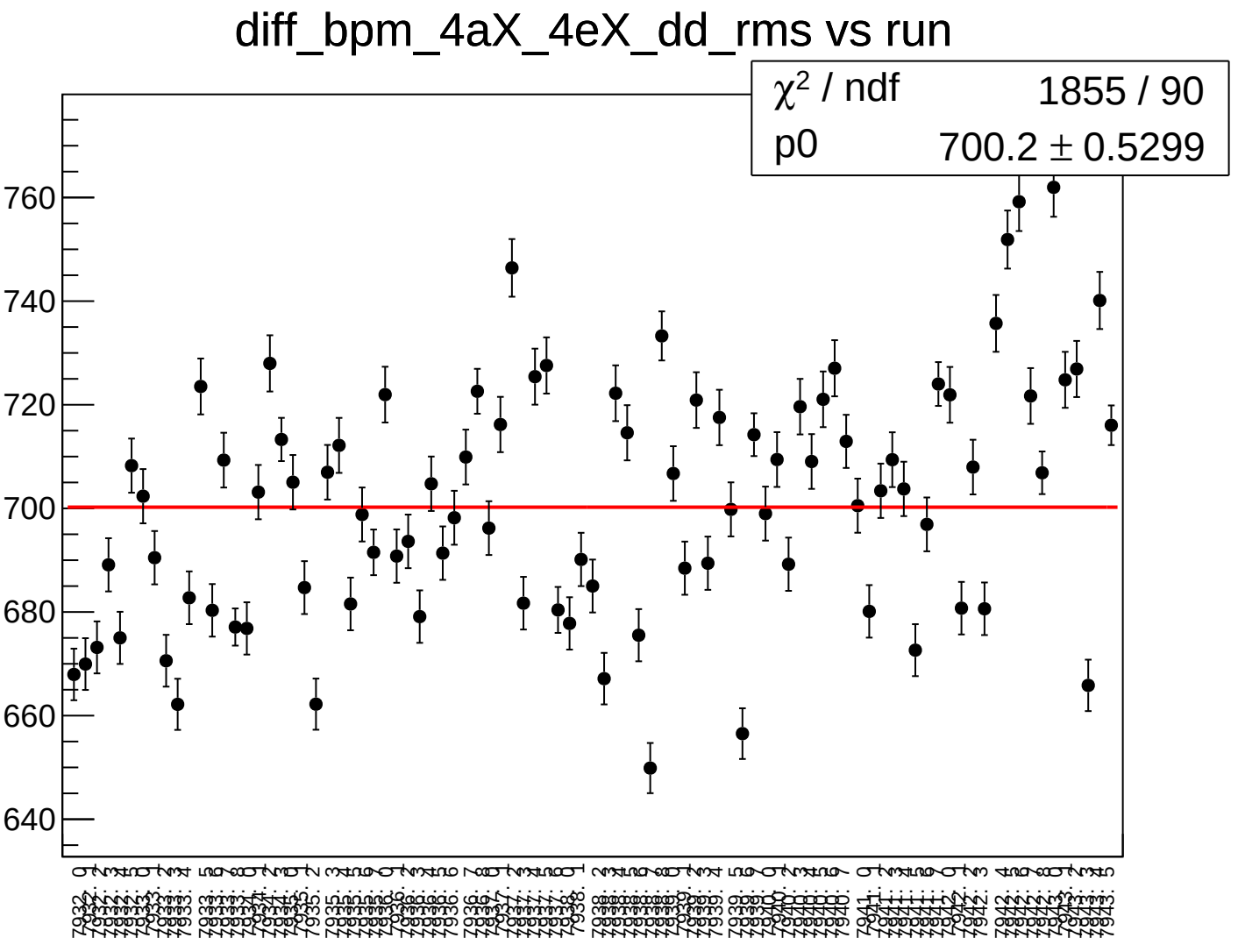

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 742.8 / 90
p0 573.3 ± 0.4337
610
600
590
580
570
560
550
540

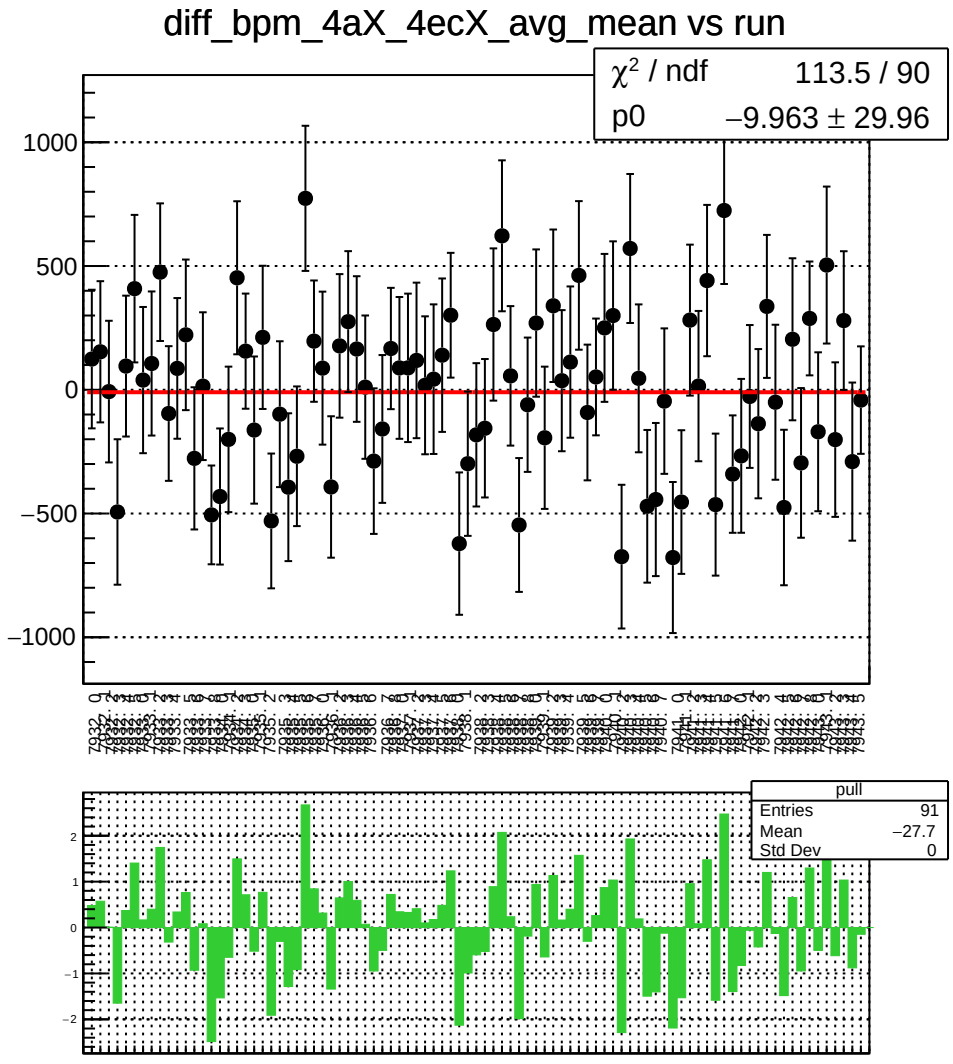

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 113.4 / 90
p0 −9.632 ± 29.79
1000
500
0
−500
−1000
pull
Entries 91
Mean −26.81
Std Dev 0
2
1
0
−1
−2

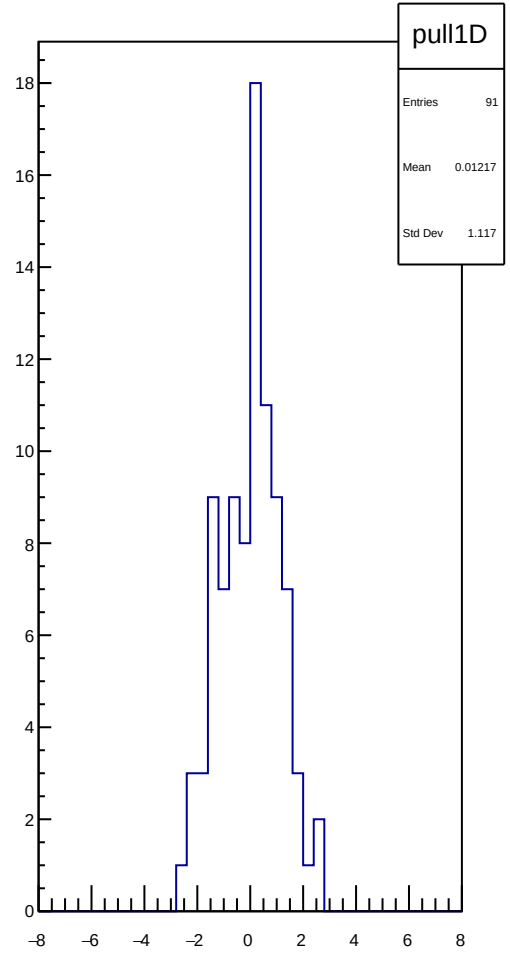

pull1D
Entries 91
Mean 0.01202
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

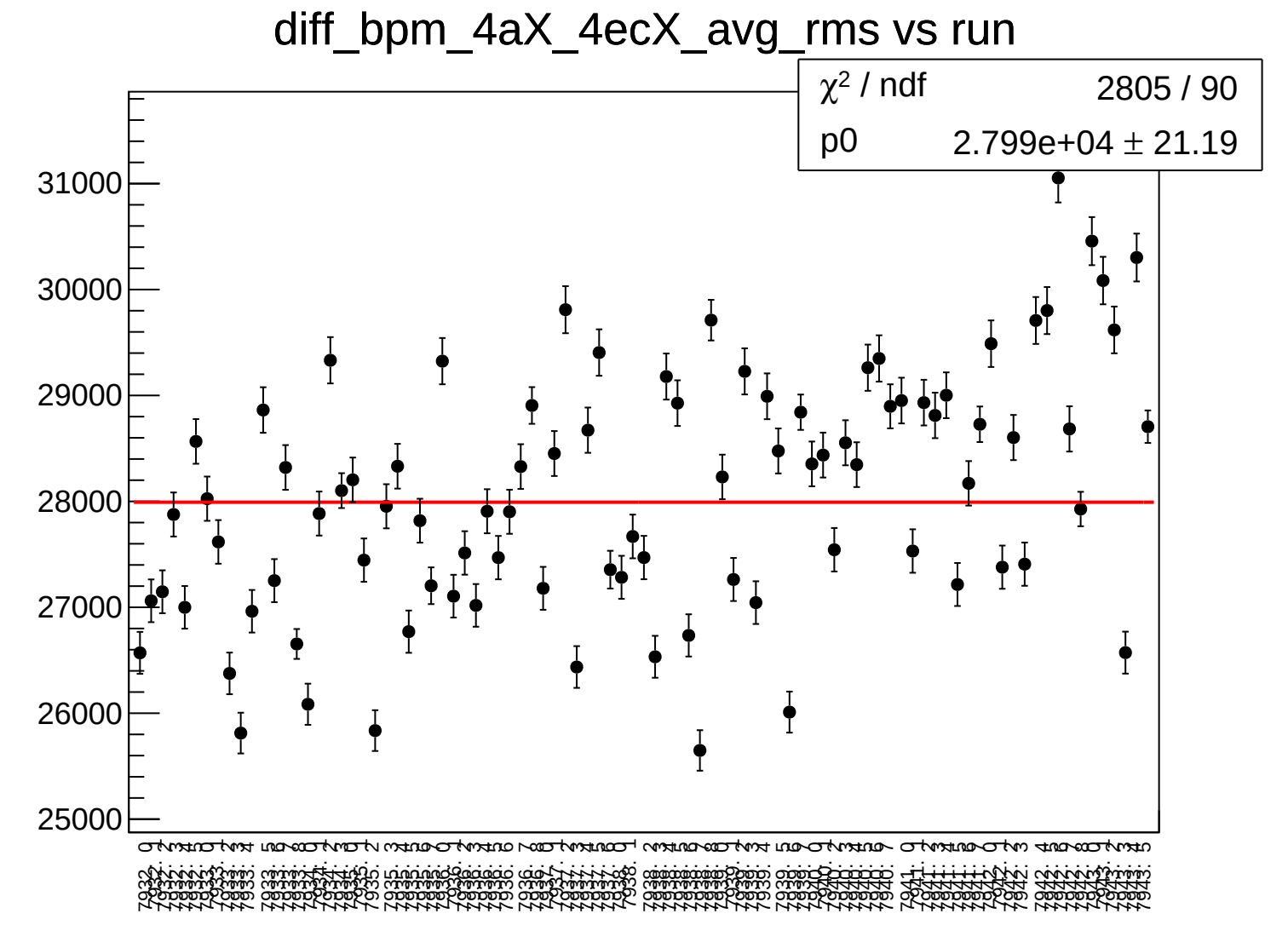

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2812 / 90
p0 2.783e+04 ± 21.06
31000
30000
29000
28000
27000
26000
25000

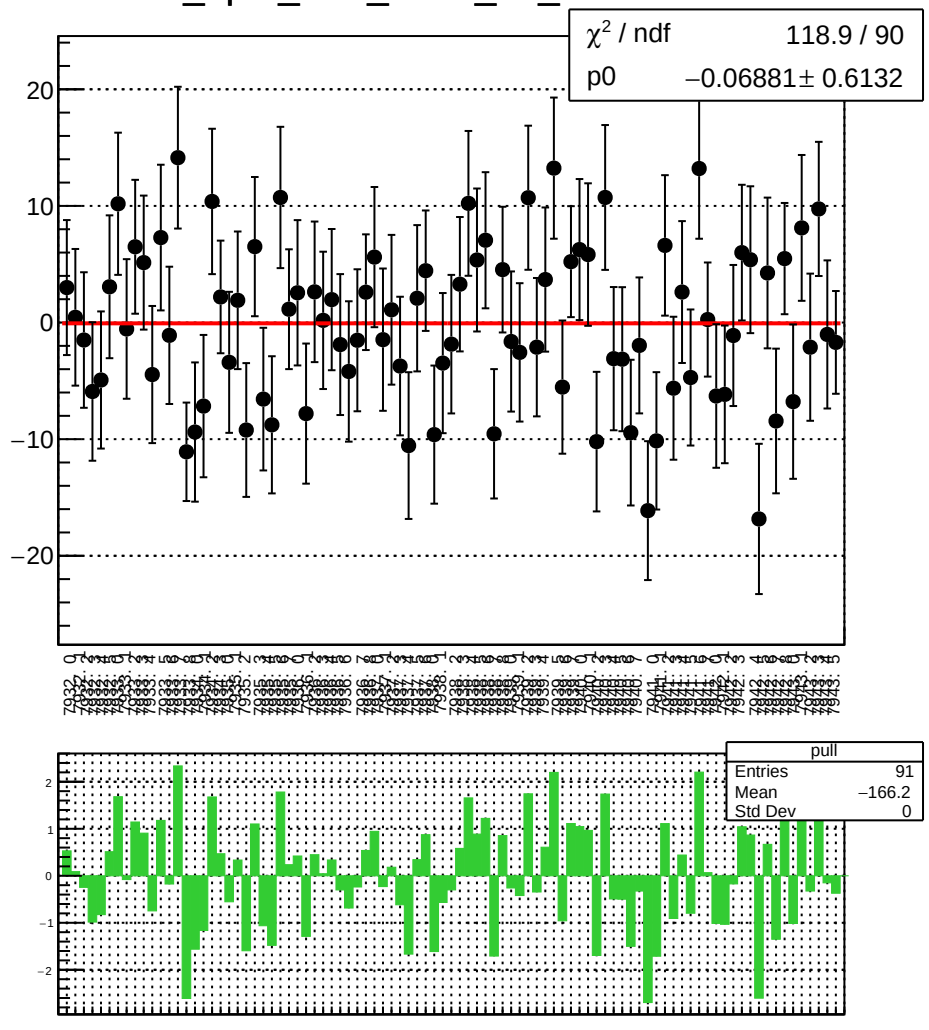

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 115.2 / 90
p0 −0.4336 ± 0.7493
pull
Entries 91
Mean −75.65
Std Dev 0
pull1D
Entries 91
Mean 0.01441
Std Dev 1.125

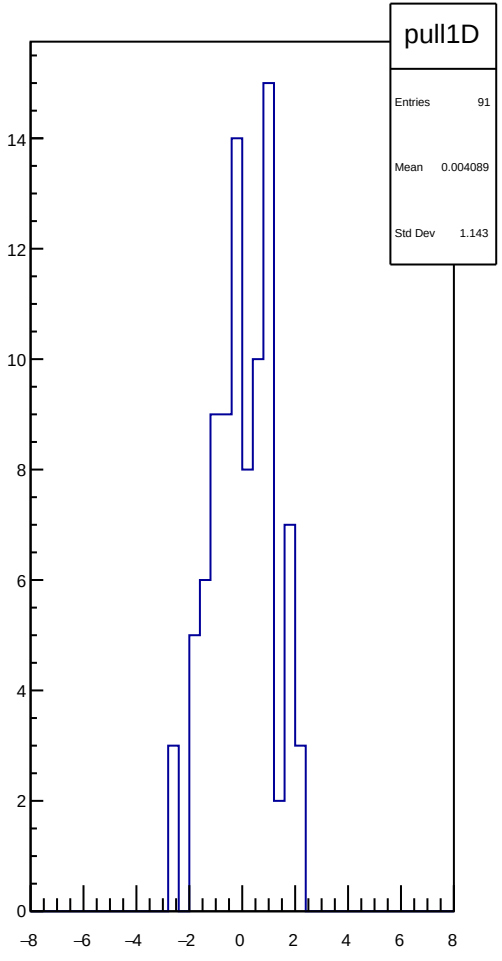

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1855 / 90
p0 700.2 ± 0.5299
760
740
720
700
680
660
640

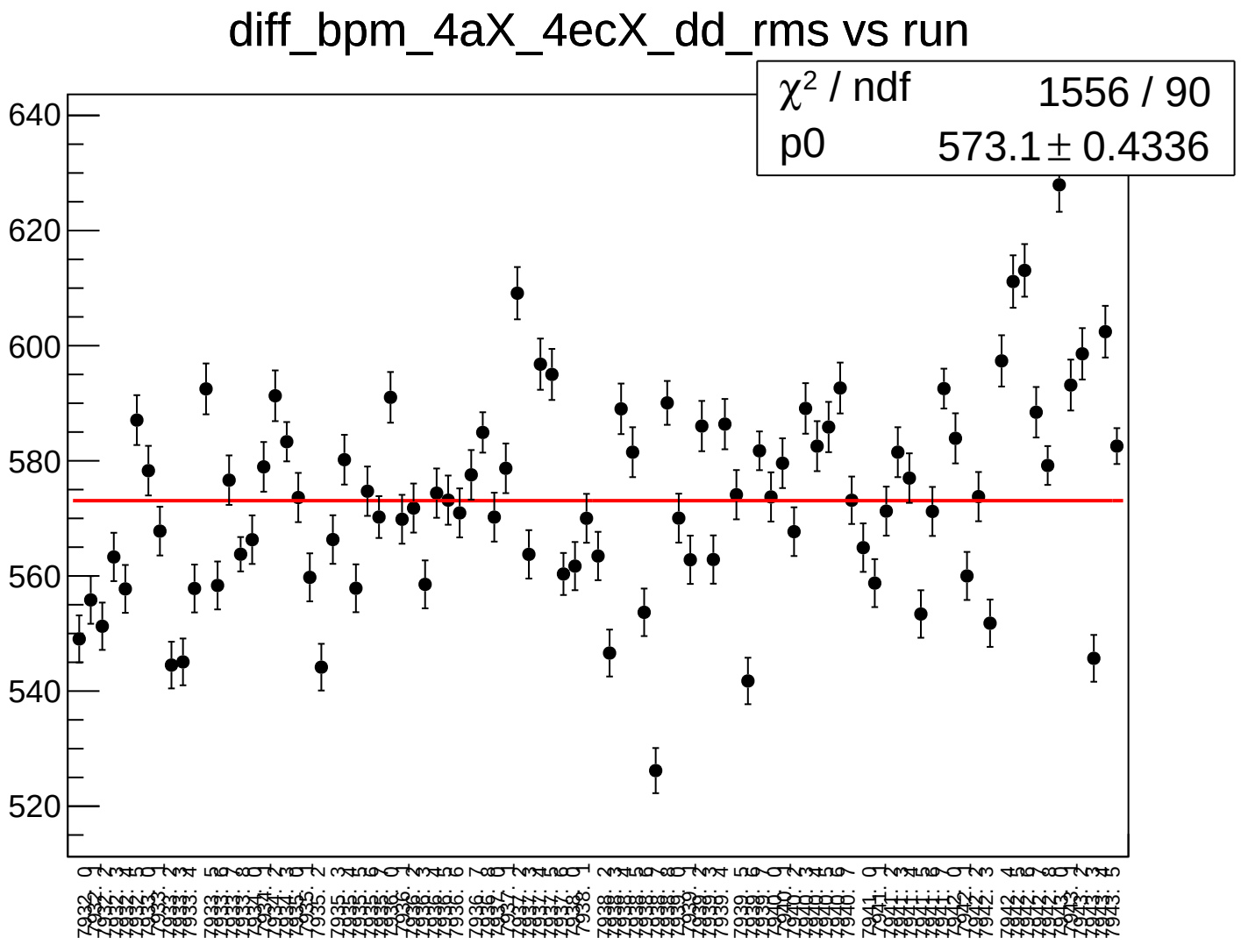

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 113.5 / 90
p0 −9.963 ± 29.96
1000
500
0
−500
−1000
pull
Entries 91
Mean −27.7
Std Dev 0
2
1
0
−1
−2

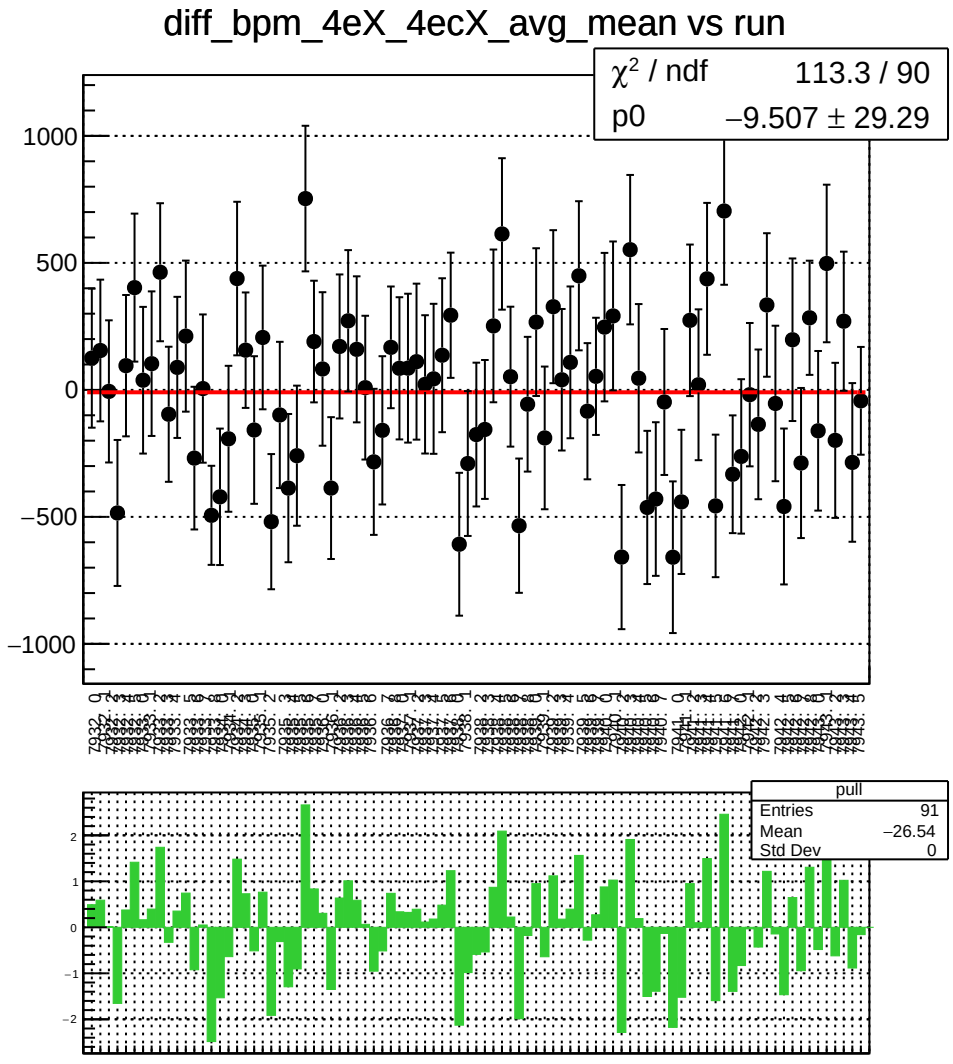

pull1D
Entries 91
Mean 0.01217
Std Dev 1.117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

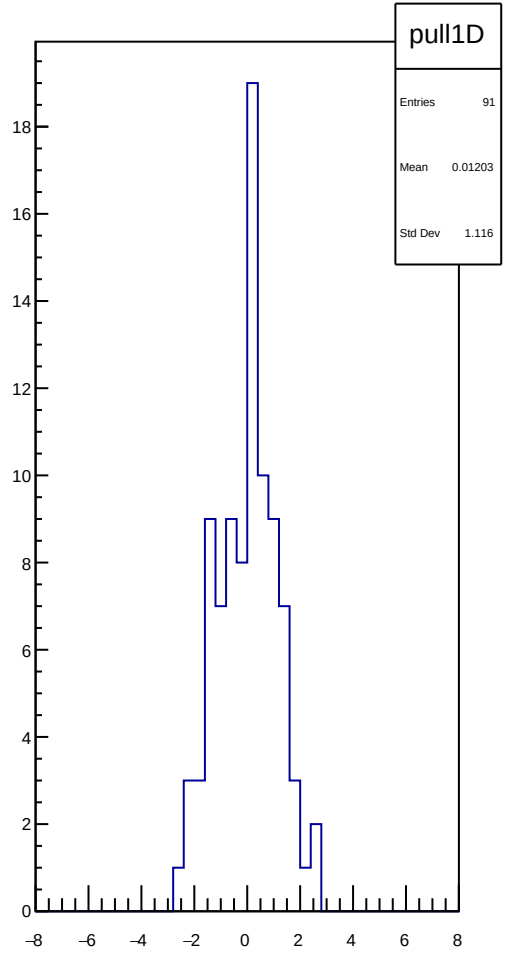

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2805 / 90
p0 2.799e+04 ± 21.19
31000
30000
29000
28000
27000
26000
25000

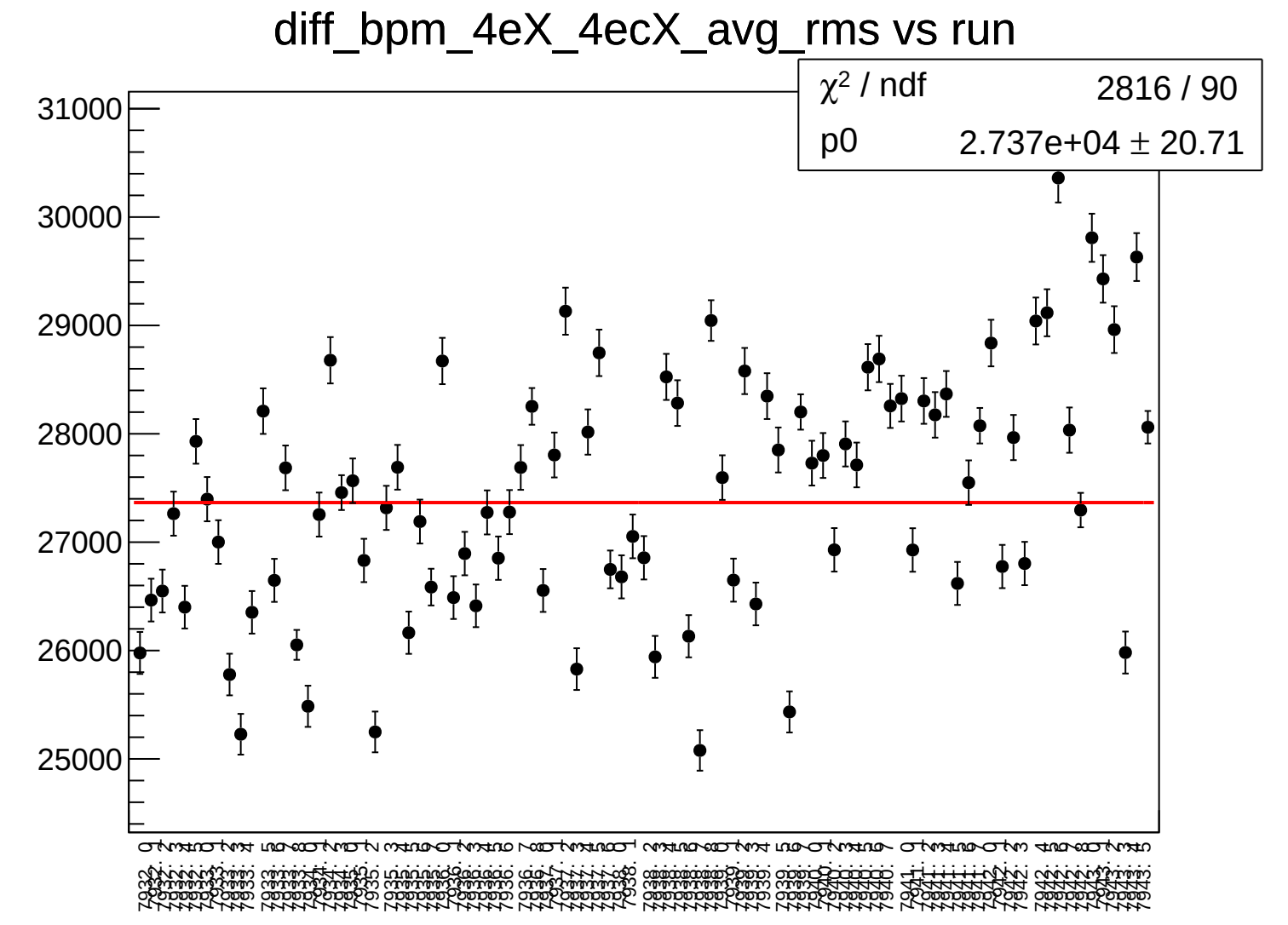

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 118.9 / 90
p0 −0.06881 ± 0.6132
pull
Entries 91
Mean −166.2
Std Dev 0

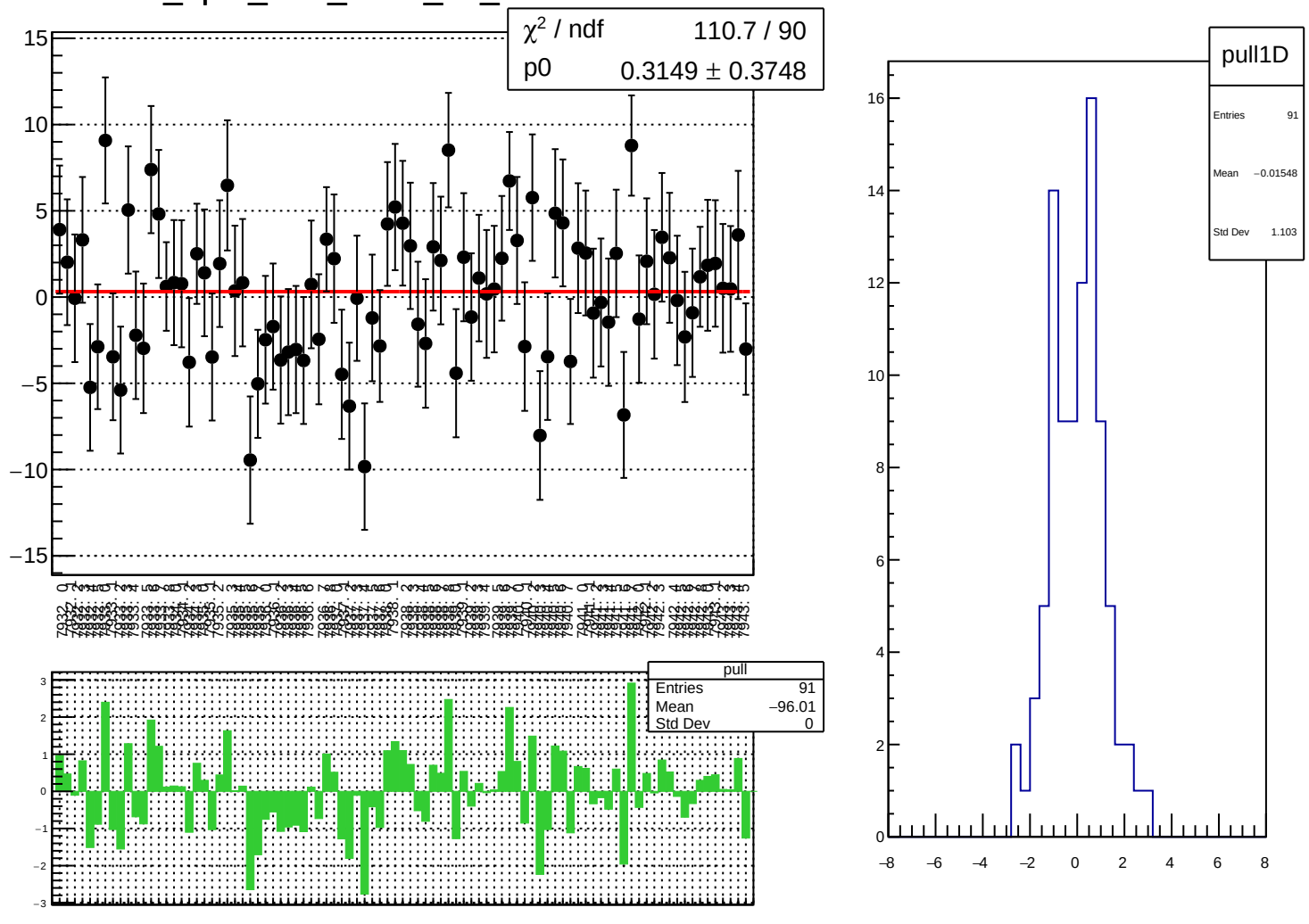

pull1D
Entries 91
Mean 0.004089
Std Dev 1.143

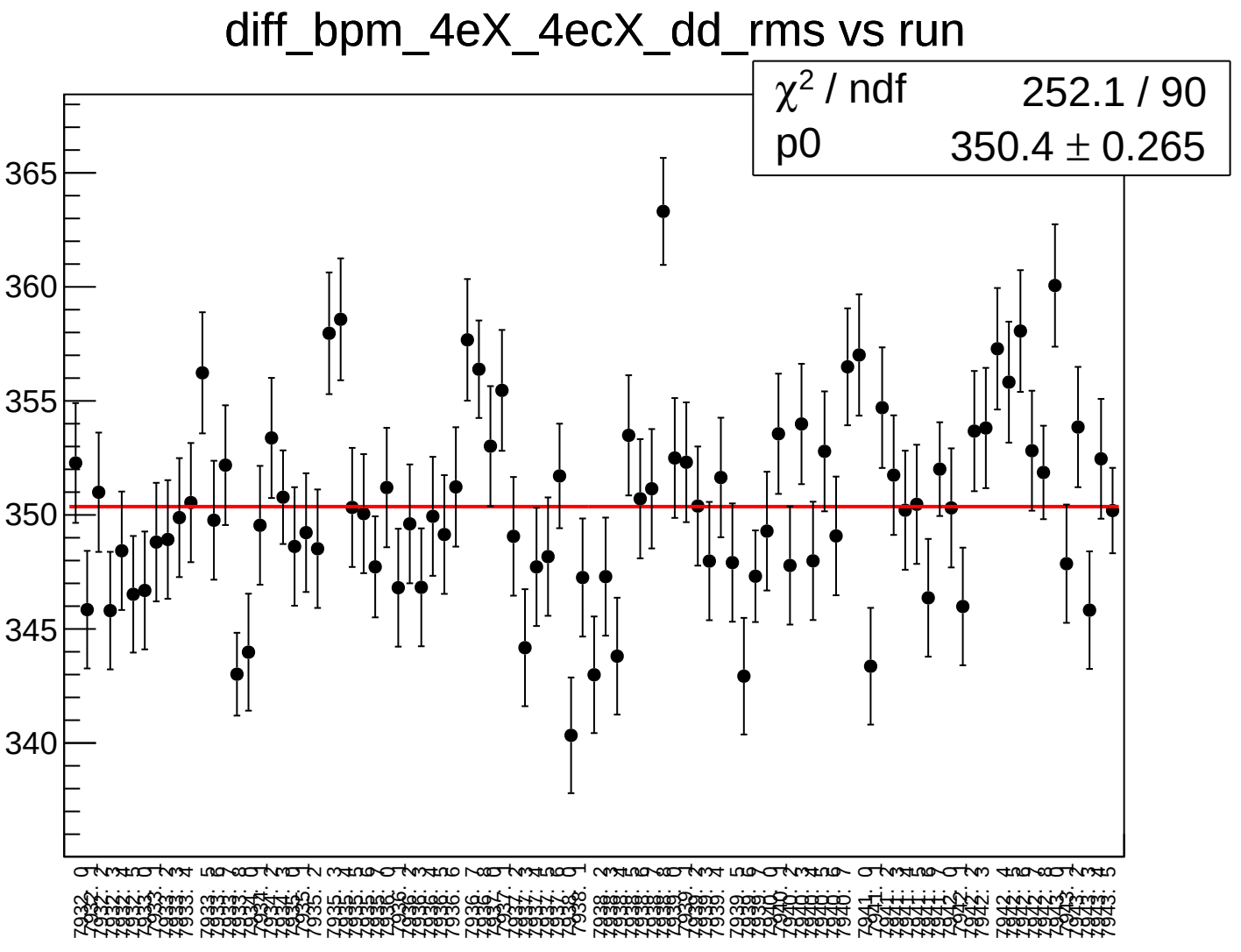

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1556 / 90
p0 573.1 ± 0.4336
640
620
600
580
560
540
520

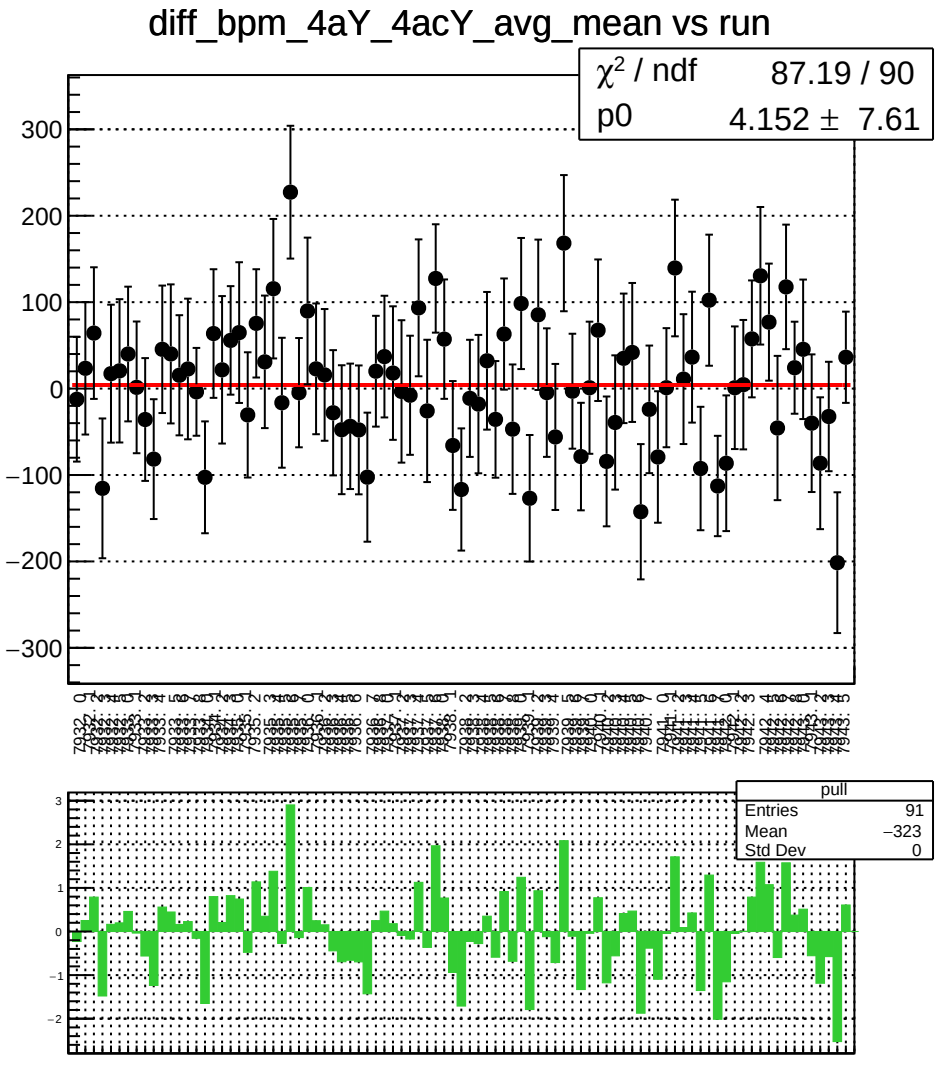

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 113.3 / 90
p0 −9.507 ± 29.29
1000
500
0
−500
−1000
pull
Entries 91
Mean −26.54
Std Dev 0
2
1
0
−1
−2

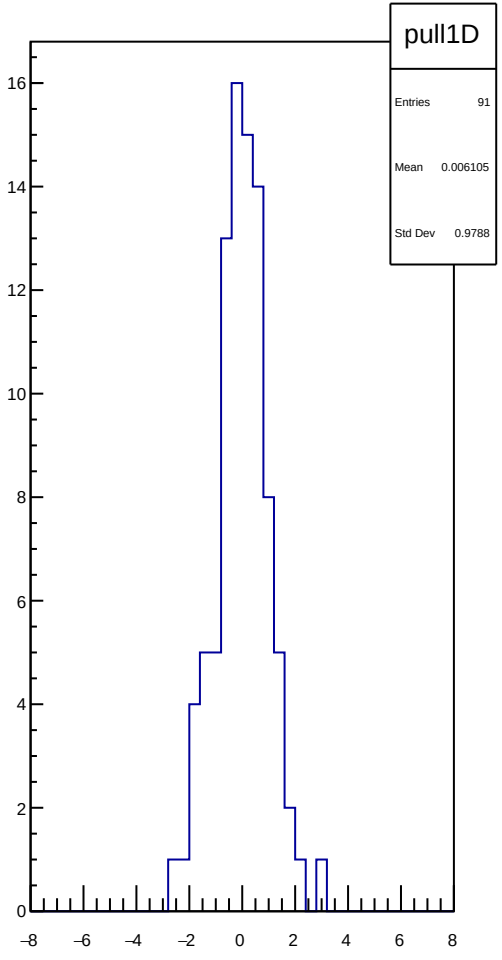

pull1D
Entries 91
Mean 0.01203
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

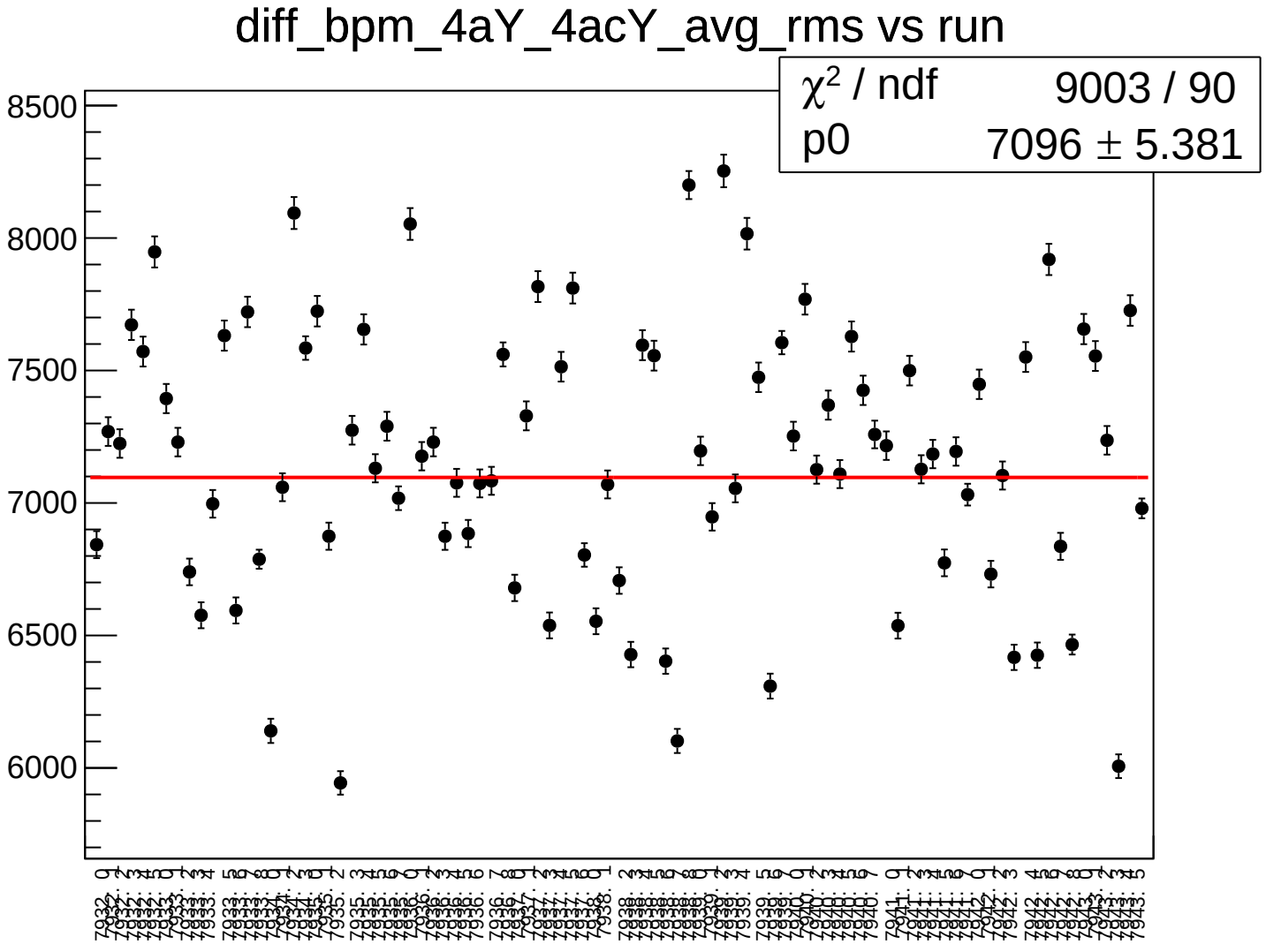

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2816 / 90
p0 2.737e+04 ± 20.71
31000
30000
29000
28000
27000
26000
25000

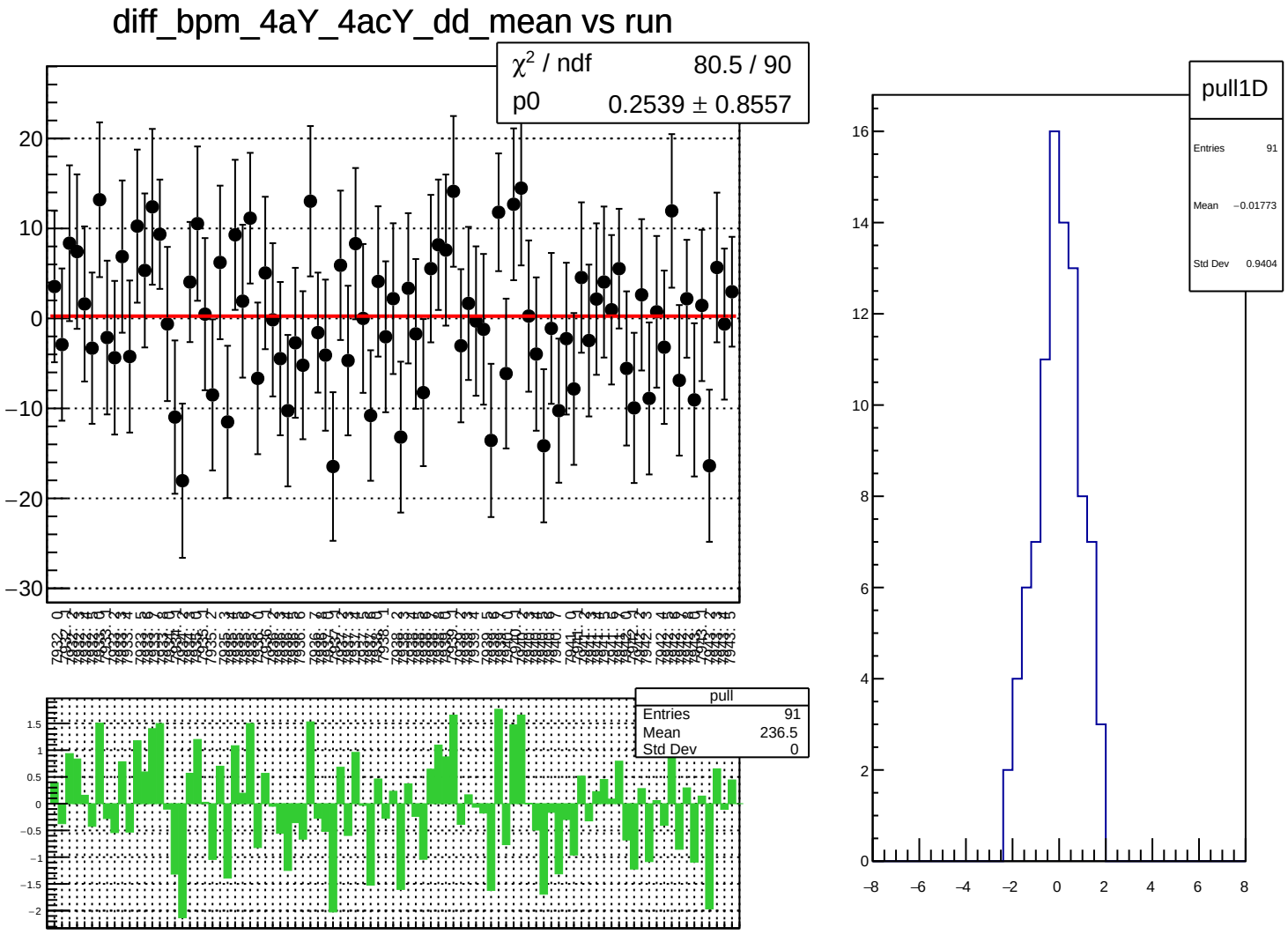

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 110.7 / 90
p0 0.3149 ± 0.3748
pull
Entries 91
Mean −96.01
Std Dev 0
pull1D
Entries 91
Mean −0.01548
Std Dev 1.103

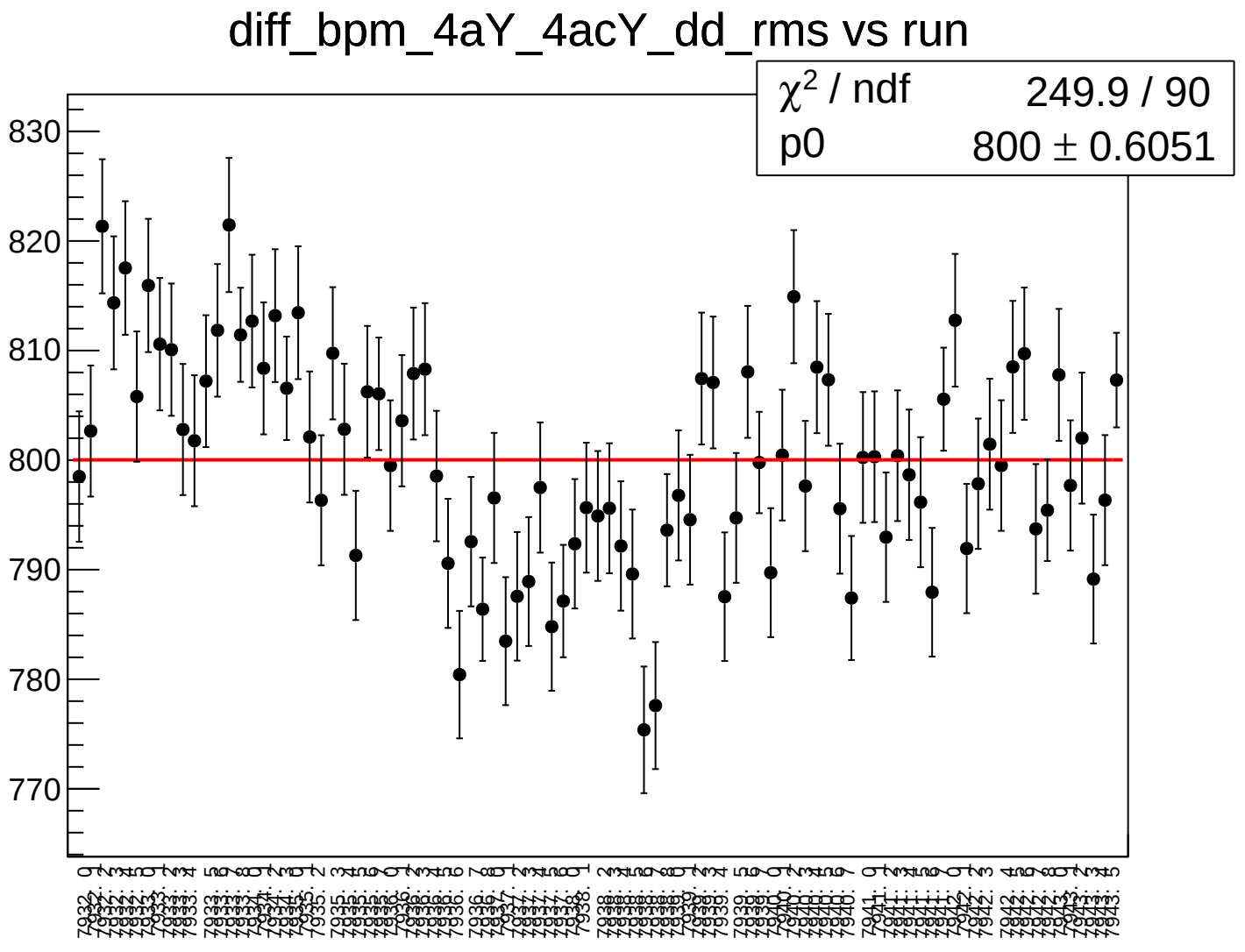

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 252.1 / 90
p0 350.4 ± 0.265
365
360
355
350
345
340

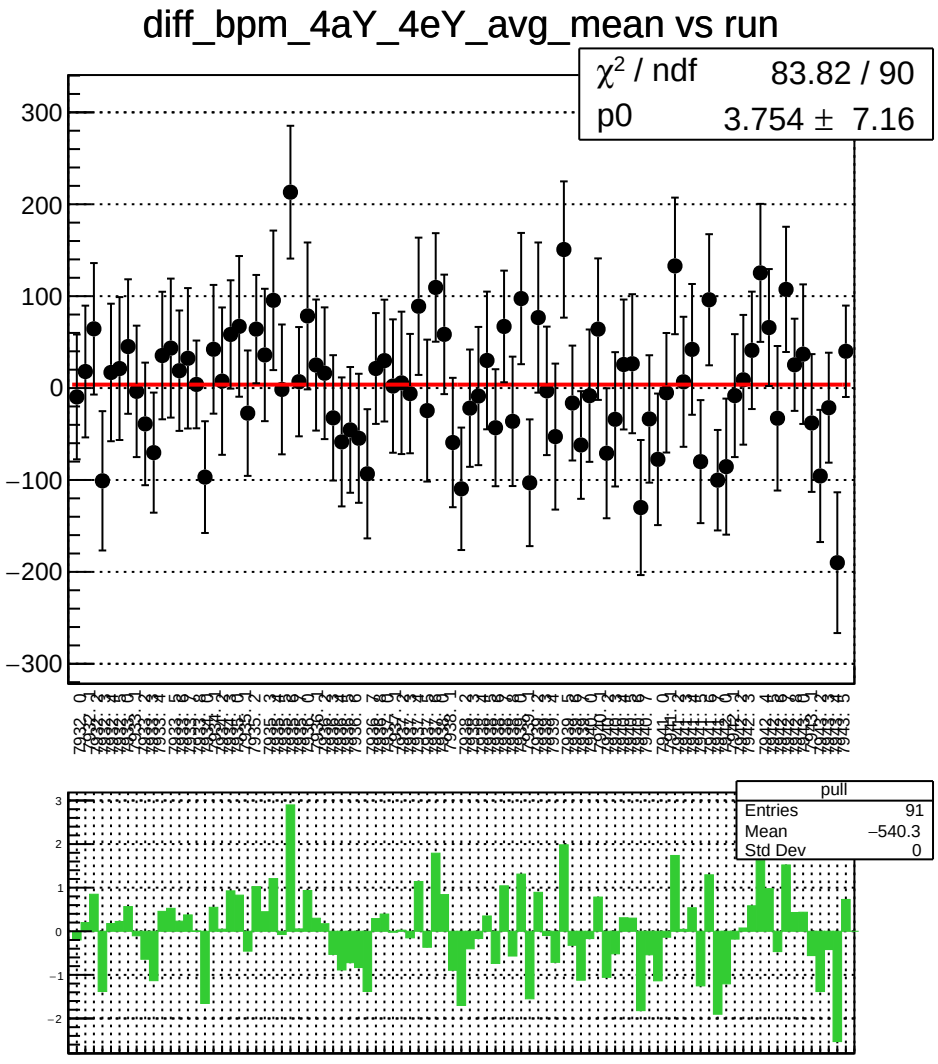

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 87.19 / 90
p0 4.152 ± 7.61
pull
Entries 91
Mean −323
Std Dev 0

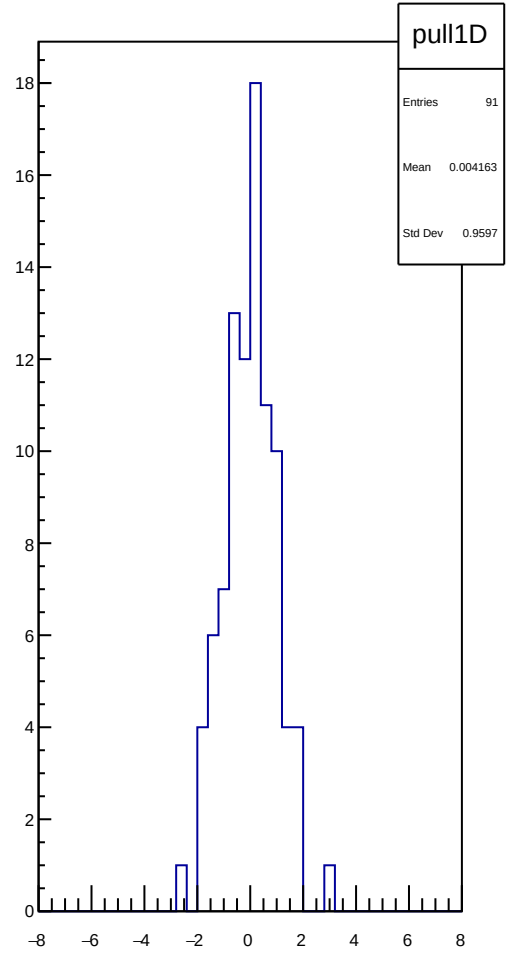

pull1D
Entries 91
Mean 0.006105
Std Dev 0.9788

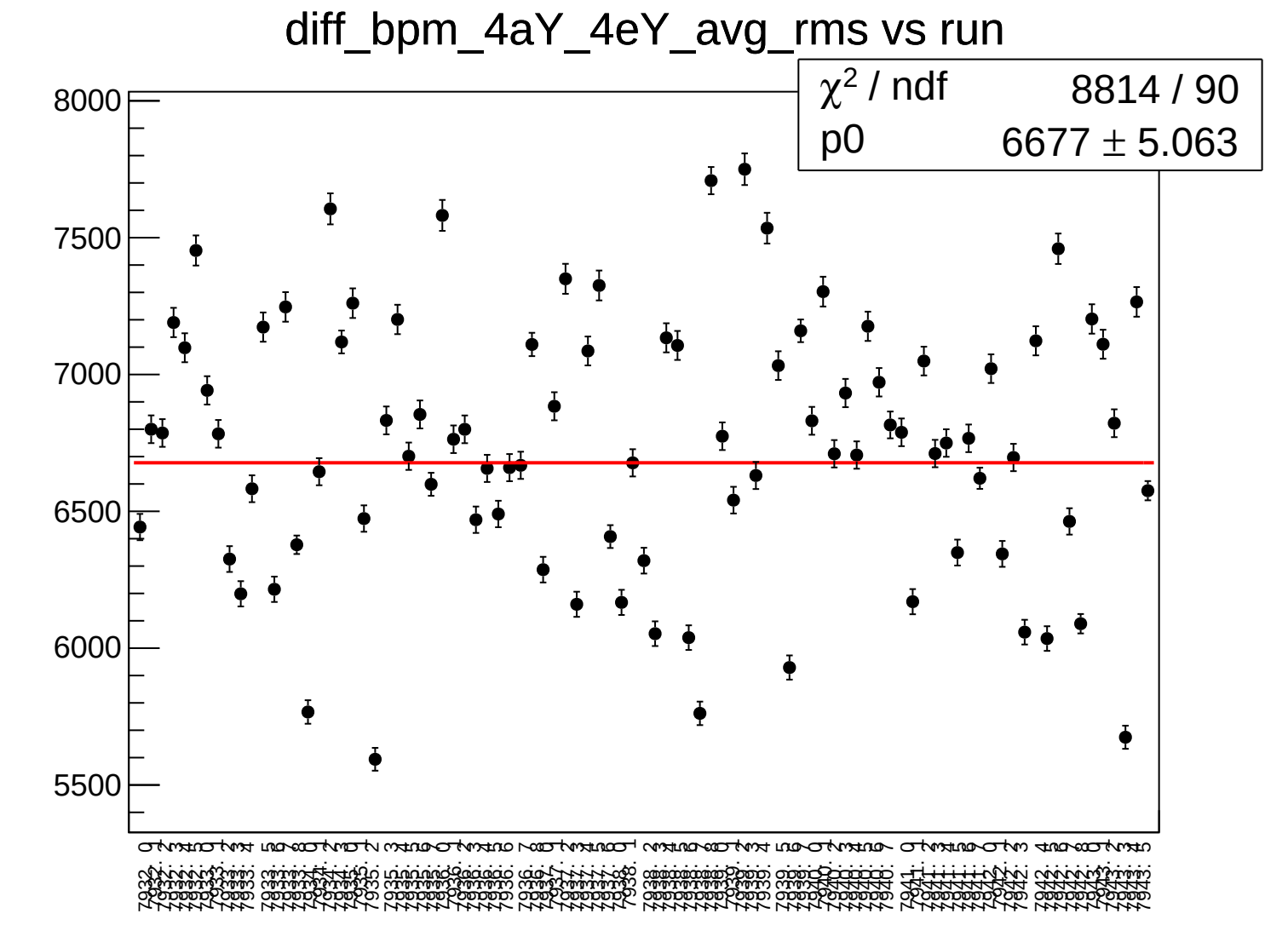

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 9003 / 90
p0 7096 ± 5.381
8500
8000
7500
7000
6500
6000

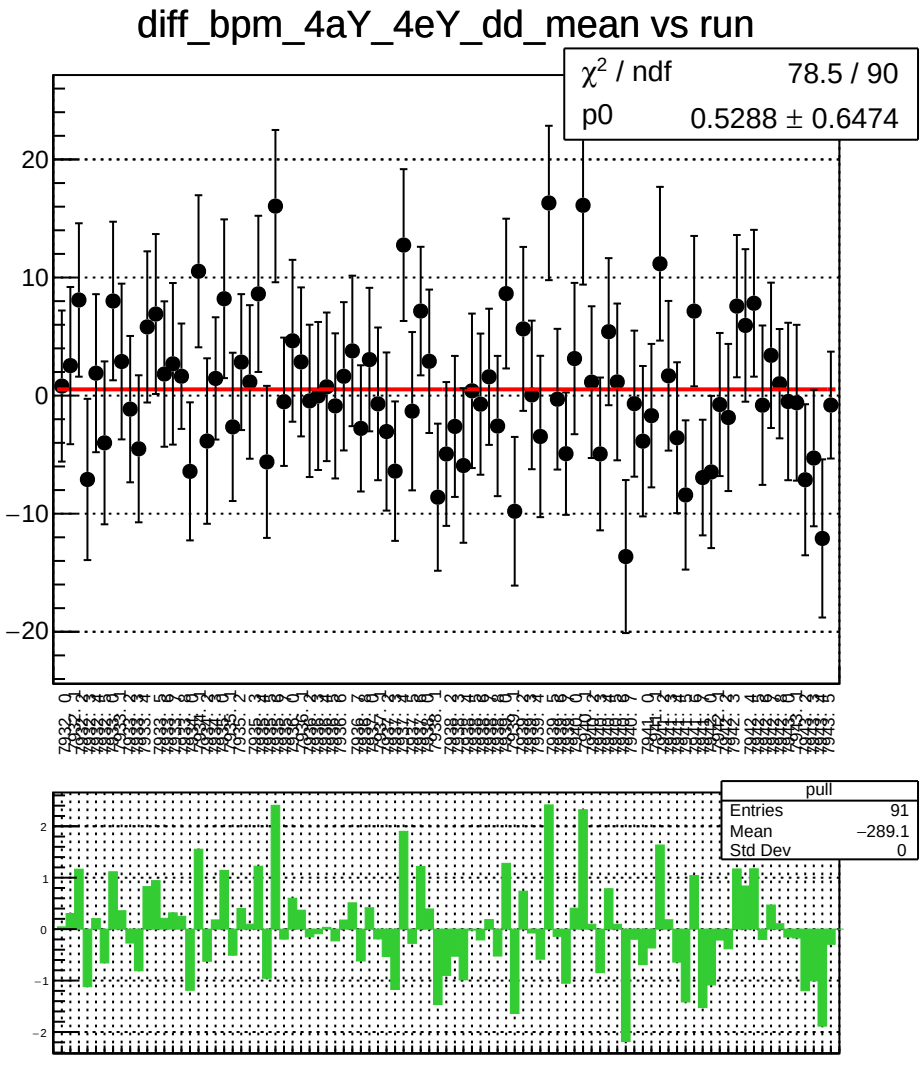

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 80.5 / 90
p0 0.2539 ± 0.8557
pull
Entries 91
Mean 236.5
Std Dev 0
pull1D
Entries 91
Mean −0.01773
Std Dev 0.9404

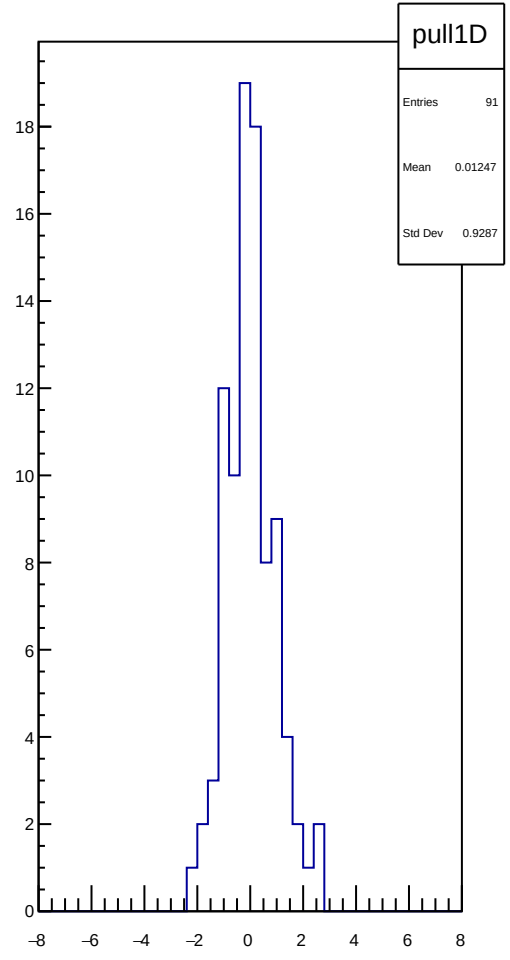

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 249.9 / 90
p0 800 ± 0.6051
830
820
810
800
790
780
770

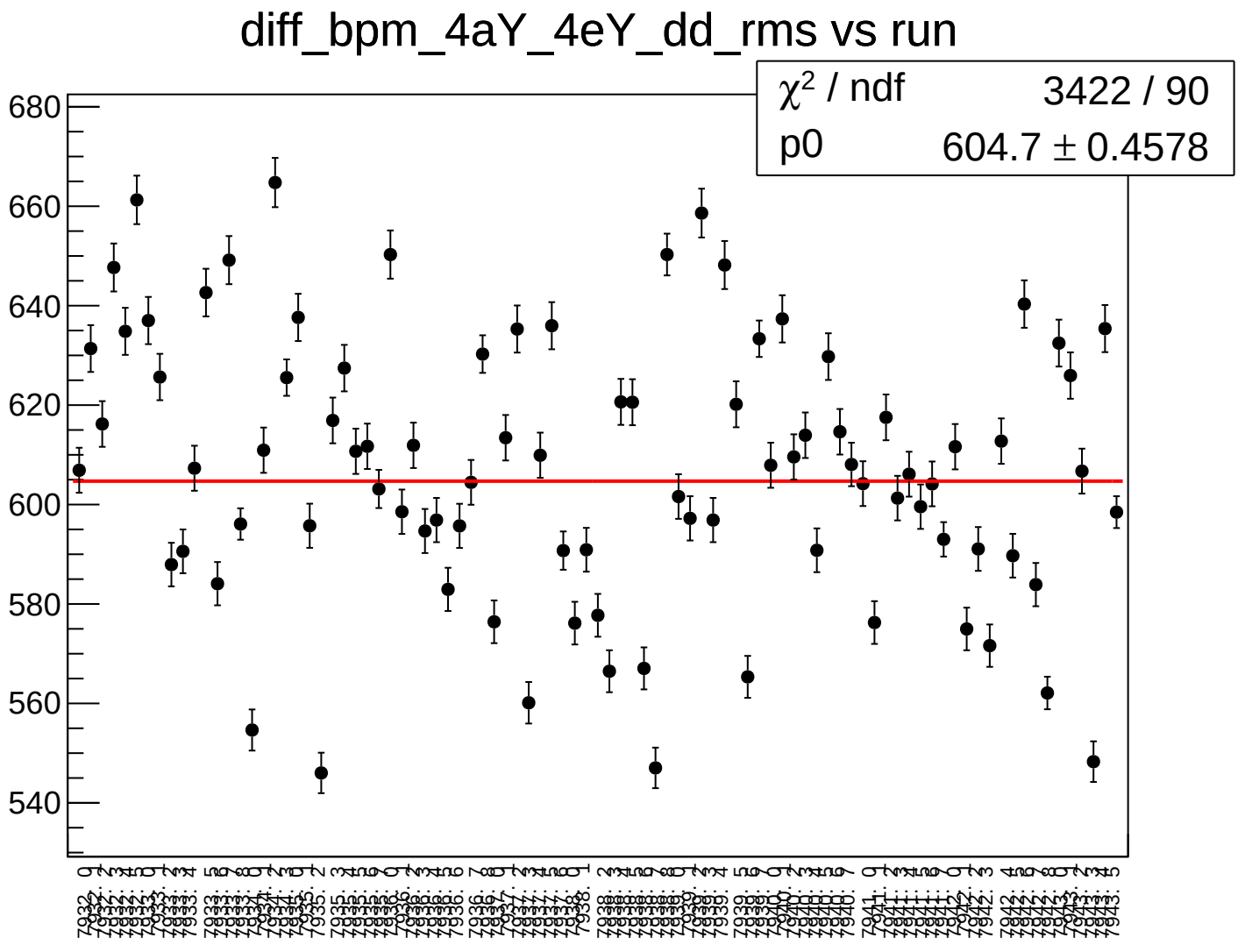

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 83.82 / 90
p0 3.754 ± 7.16
pull
Entries 91
Mean −540.3
Std Dev 0

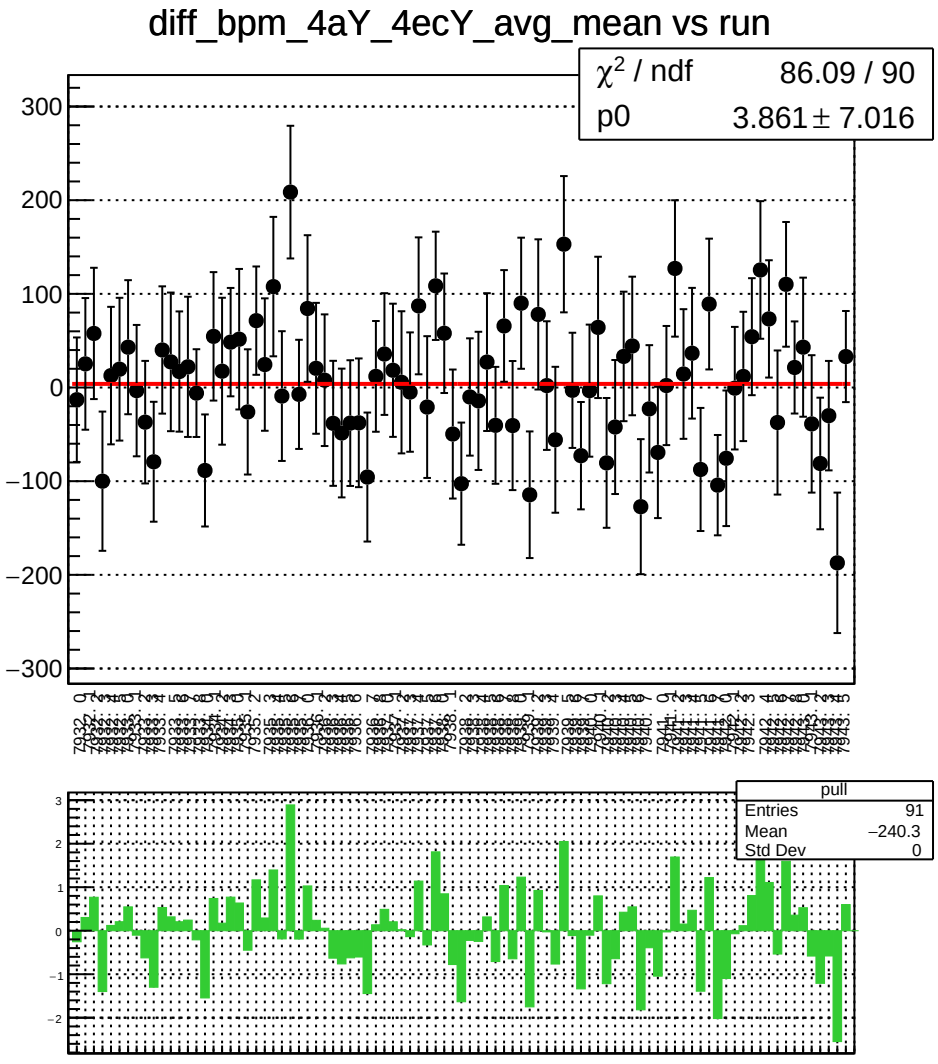

pull1D
Entries 91
Mean 0.004163
Std Dev 0.9597

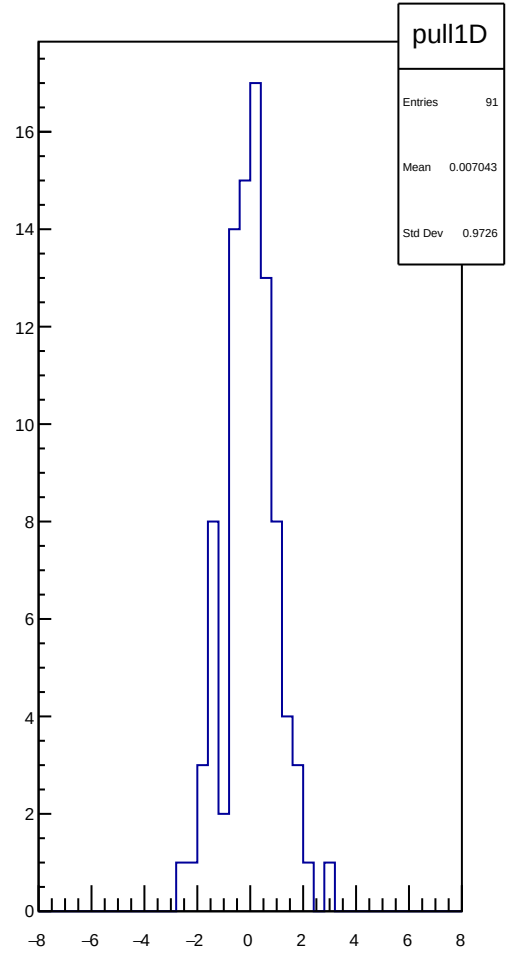

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 8814 / 90
p0 6677 ± 5.063
8000
7500
7000
6500
6000
5500

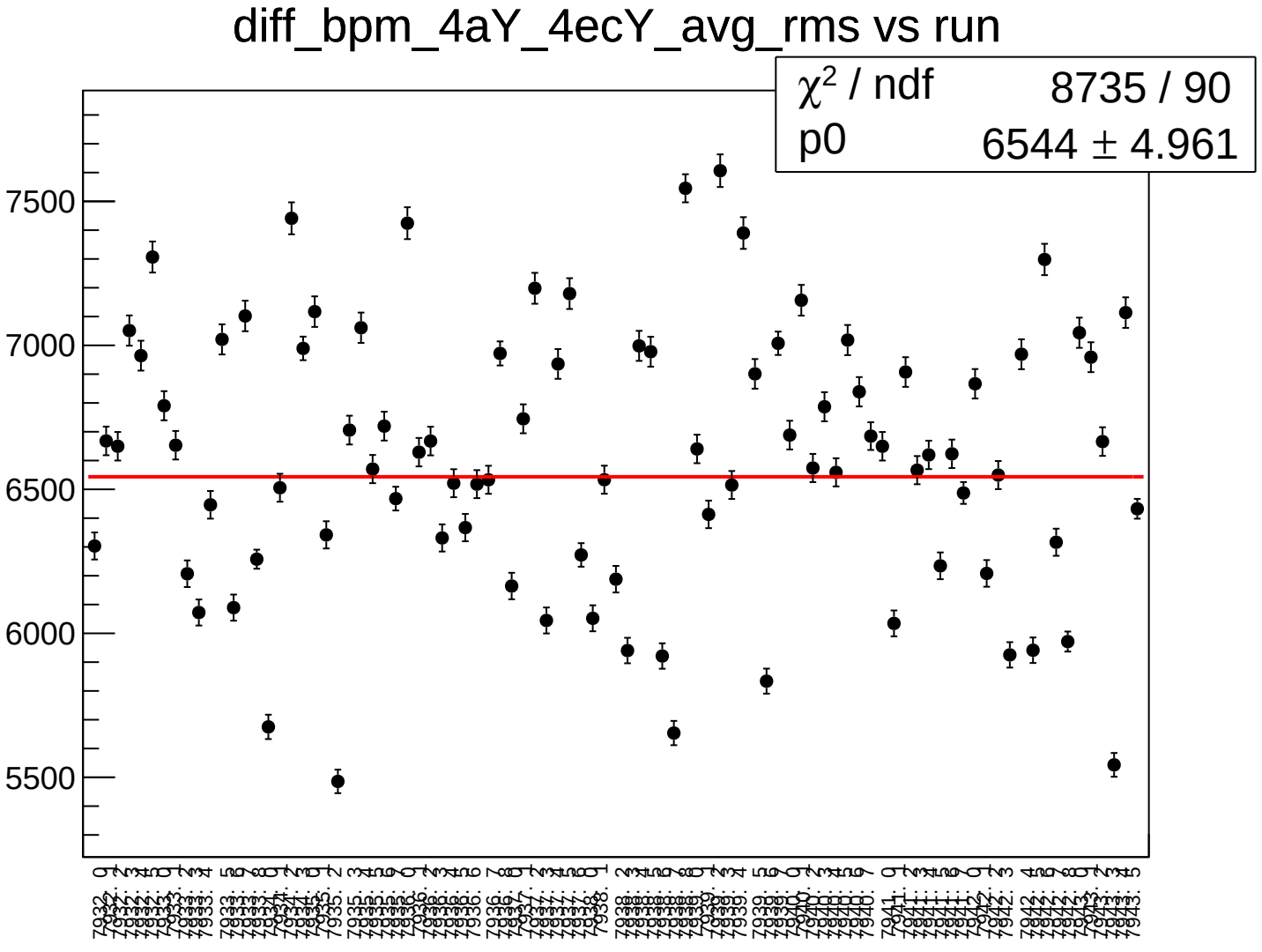

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 78.5 / 90
p0 0.5288 ± 0.6474
pull
Entries 91
Mean −289.1
Std Dev 0

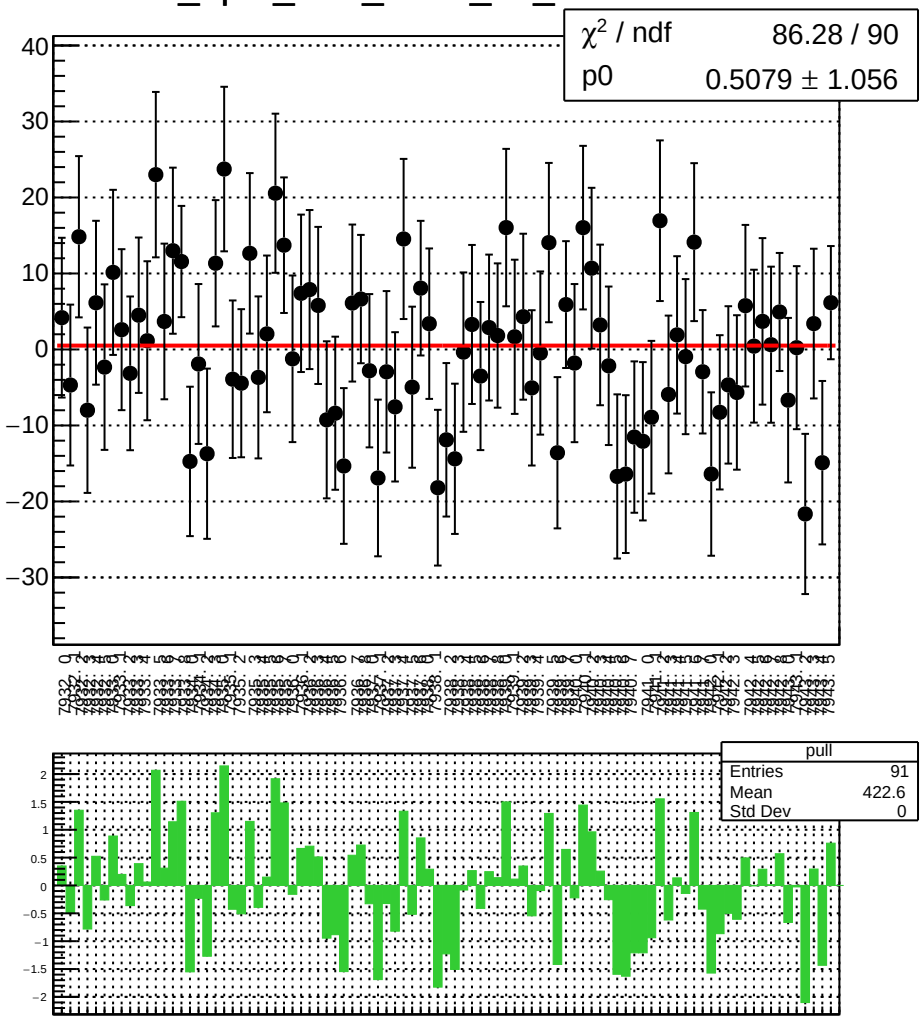

pull1D
Entries 91
Mean 0.01247
Std Dev 0.9287

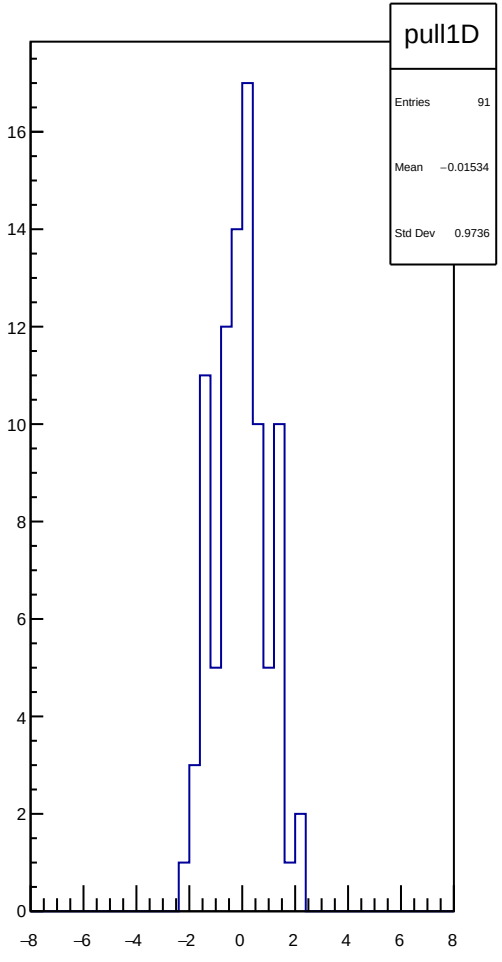

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3422 / 90
p0 604.7 ± 0.4578
680
660
640
620
600
580
560
540

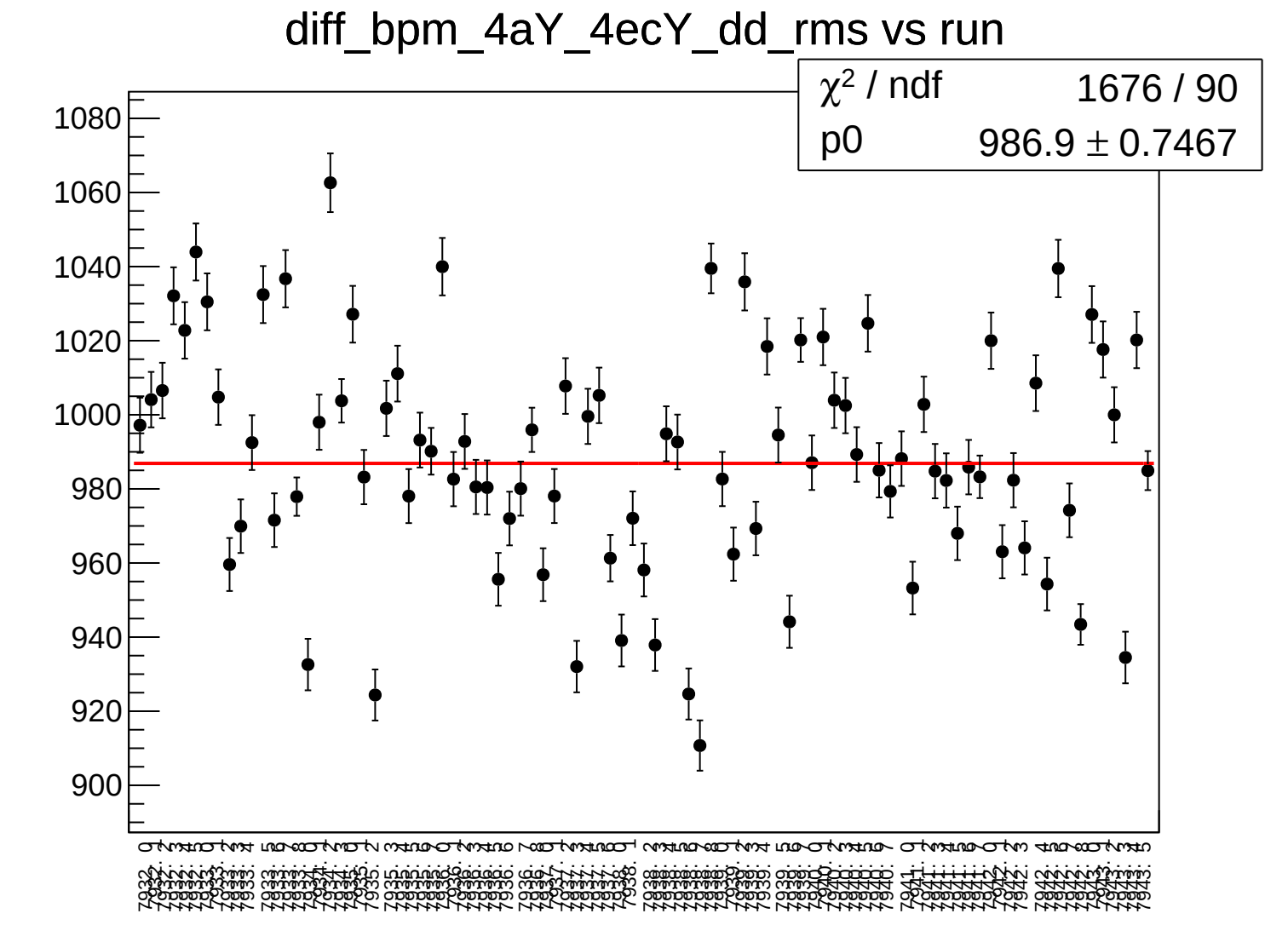

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 86.09 / 90
p0 3.861 ± 7.016
pull
Entries 91
Mean −240.3
Std Dev 0

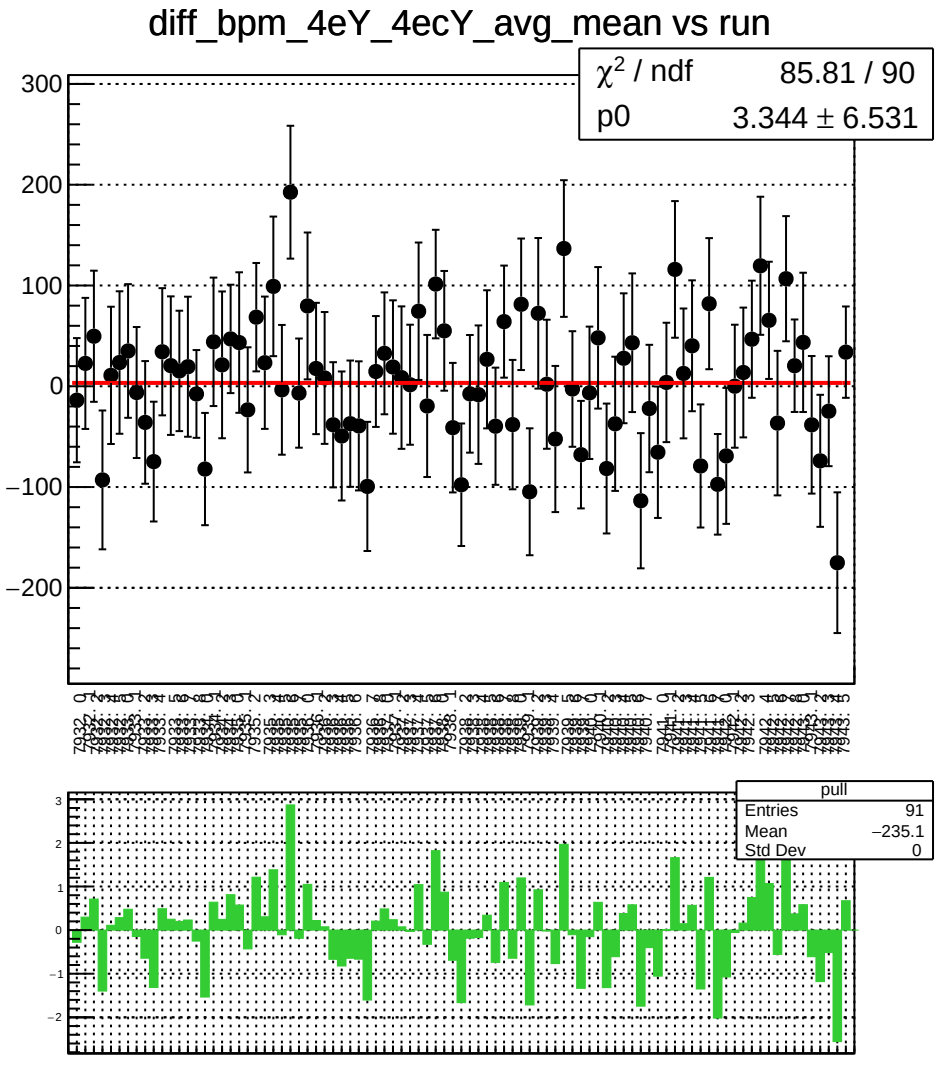

pull1D
Entries 91
Mean 0.007043
Std Dev 0.9726

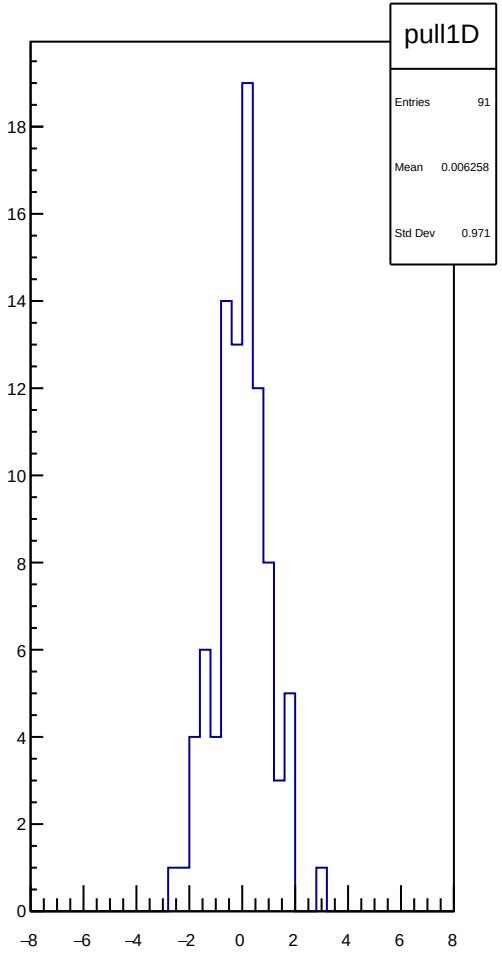

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 8735 / 90
p0 6544 ± 4.961
7500
7000
6500
6000
5500

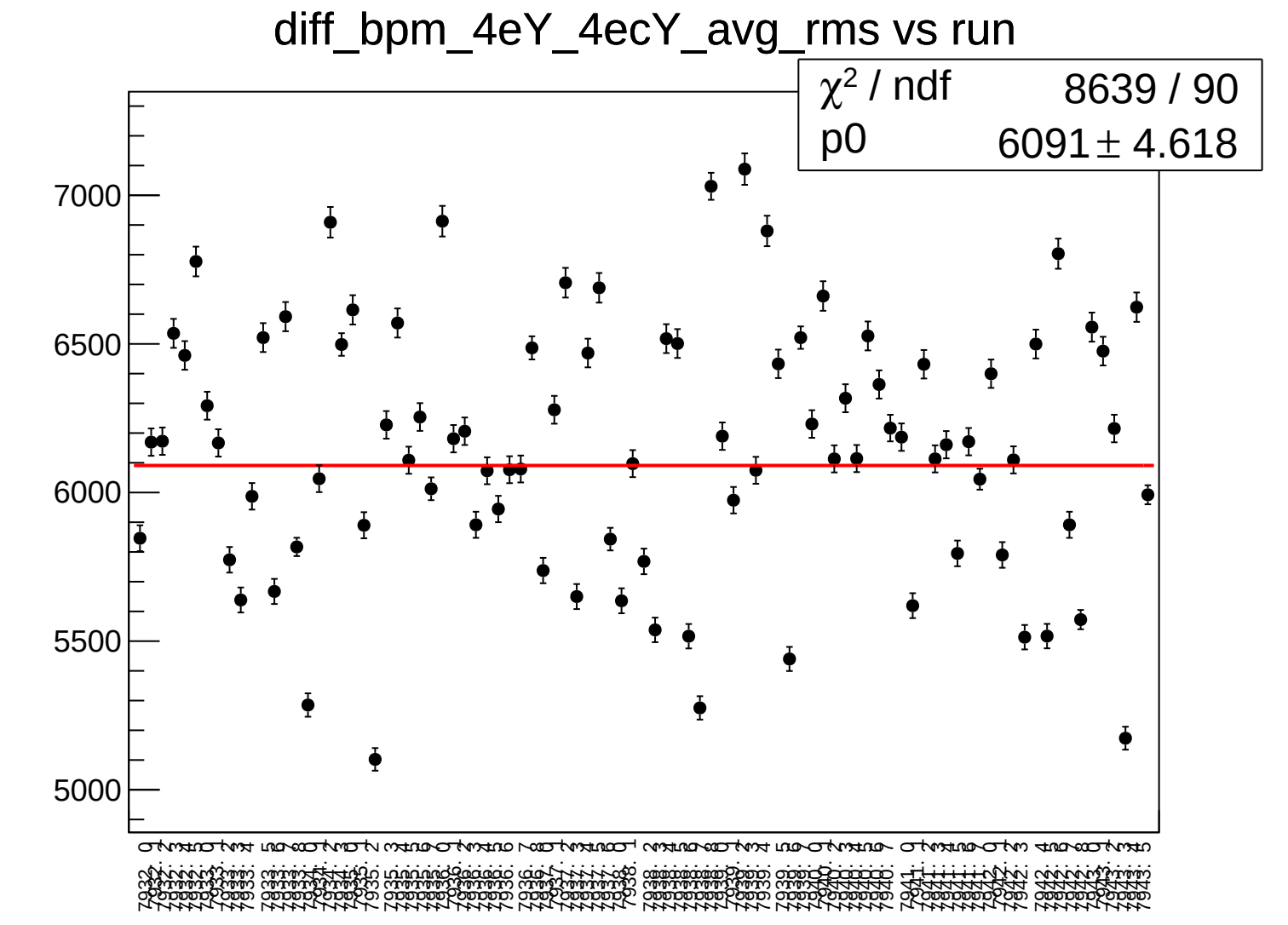

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 86.28 / 90
p0 0.5079 ± 1.056
pull
Entries 91
Mean 422.6
Std Dev 0

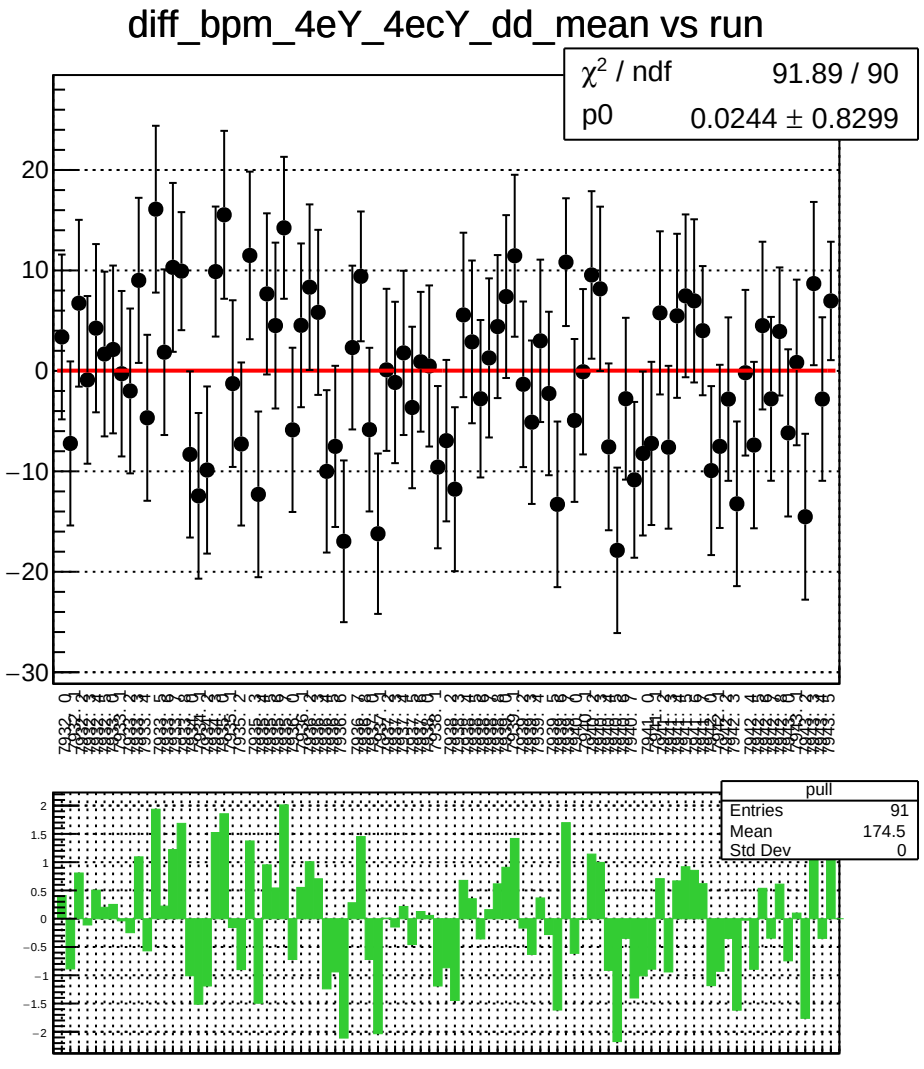

pull1D
Entries 91
Mean −0.01534
Std Dev 0.9736

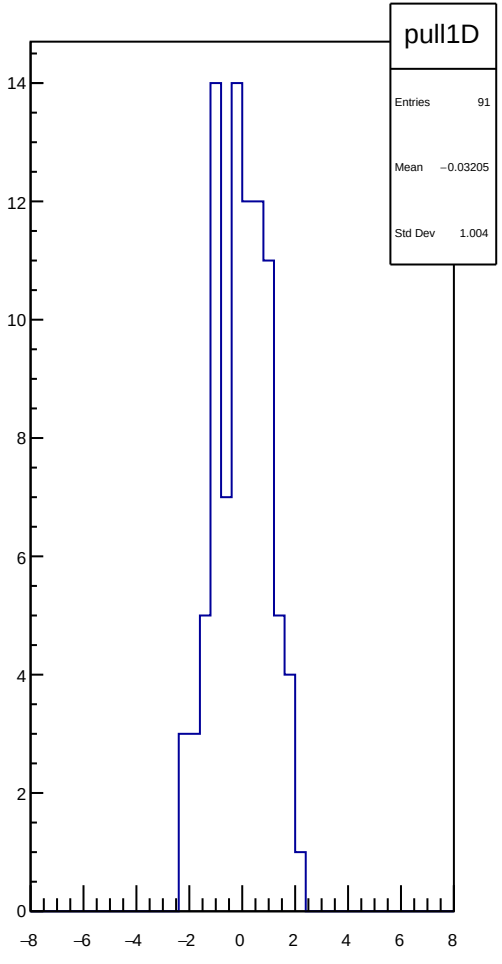

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1676 / 90
p0 986.9 ± 0.7467
1080
1060
1040
1020
1000
980
960
940
920
900

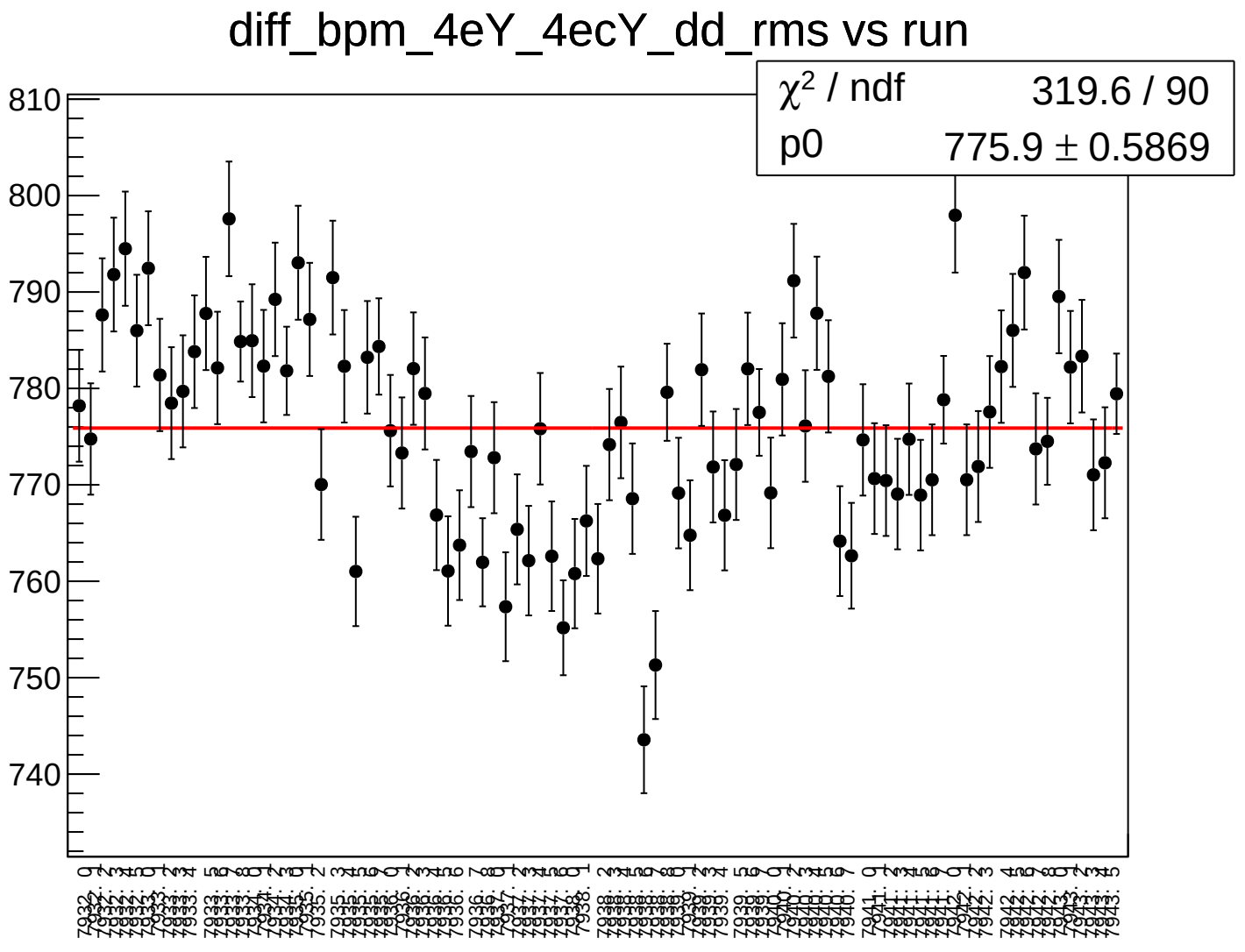

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 85.81 / 90
p0 3.344 ± 6.531
pull
Entries 91
Mean −235.1
Std Dev 0

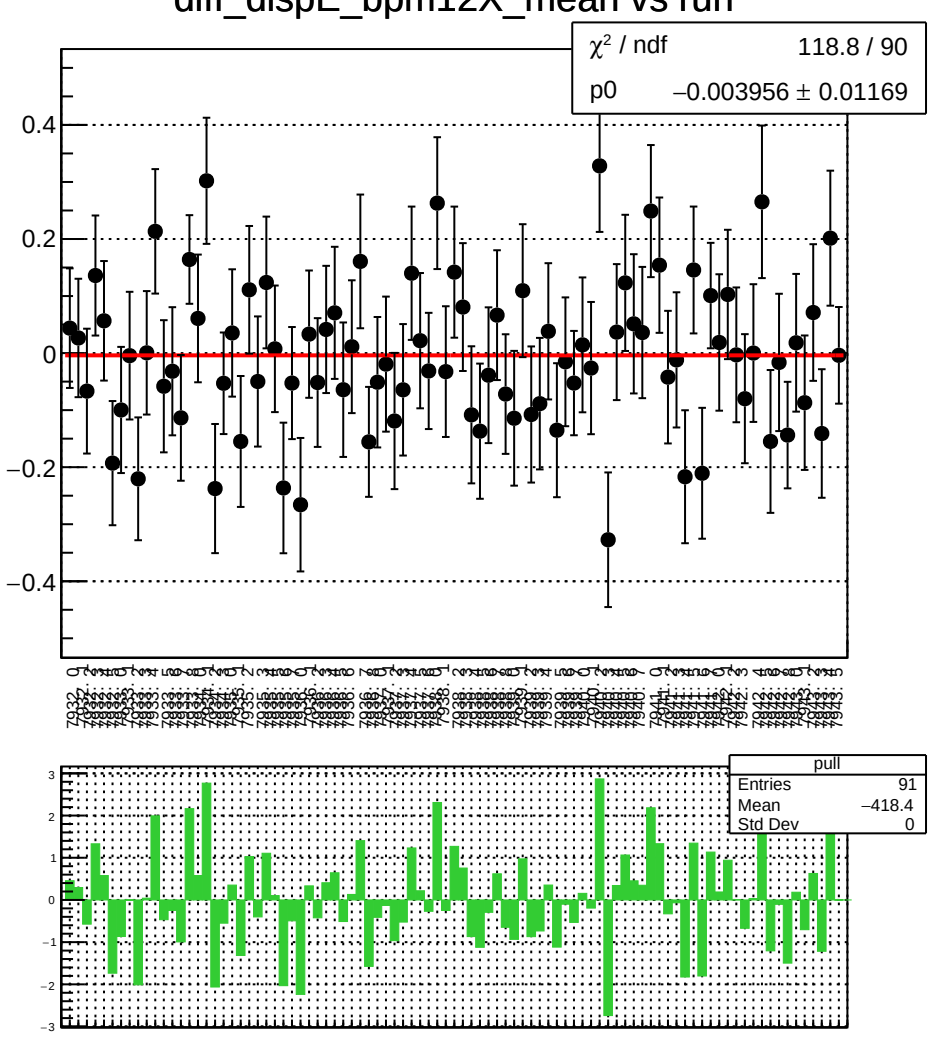

pull1D
Entries 91
Mean 0.006258
Std Dev 0.971

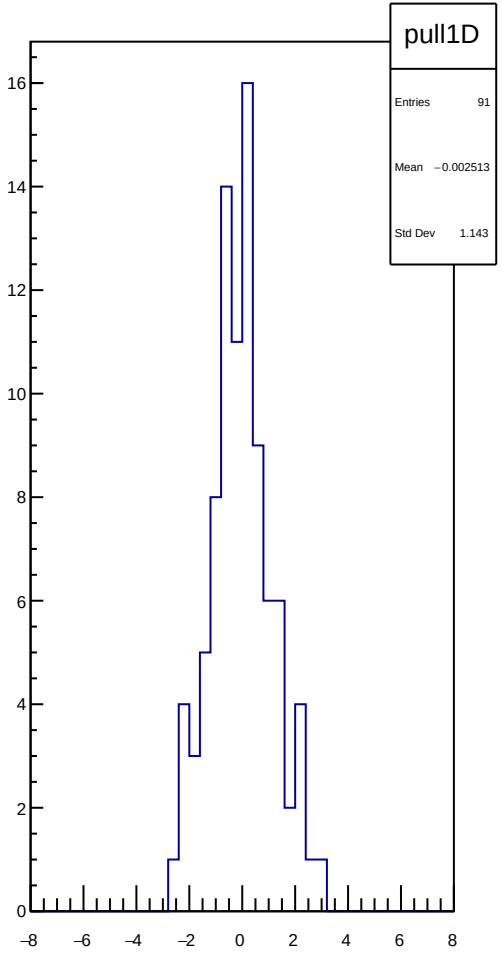

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 8639 / 90
p0 6091 ± 4.618
7000
6500
6000
5500
5000

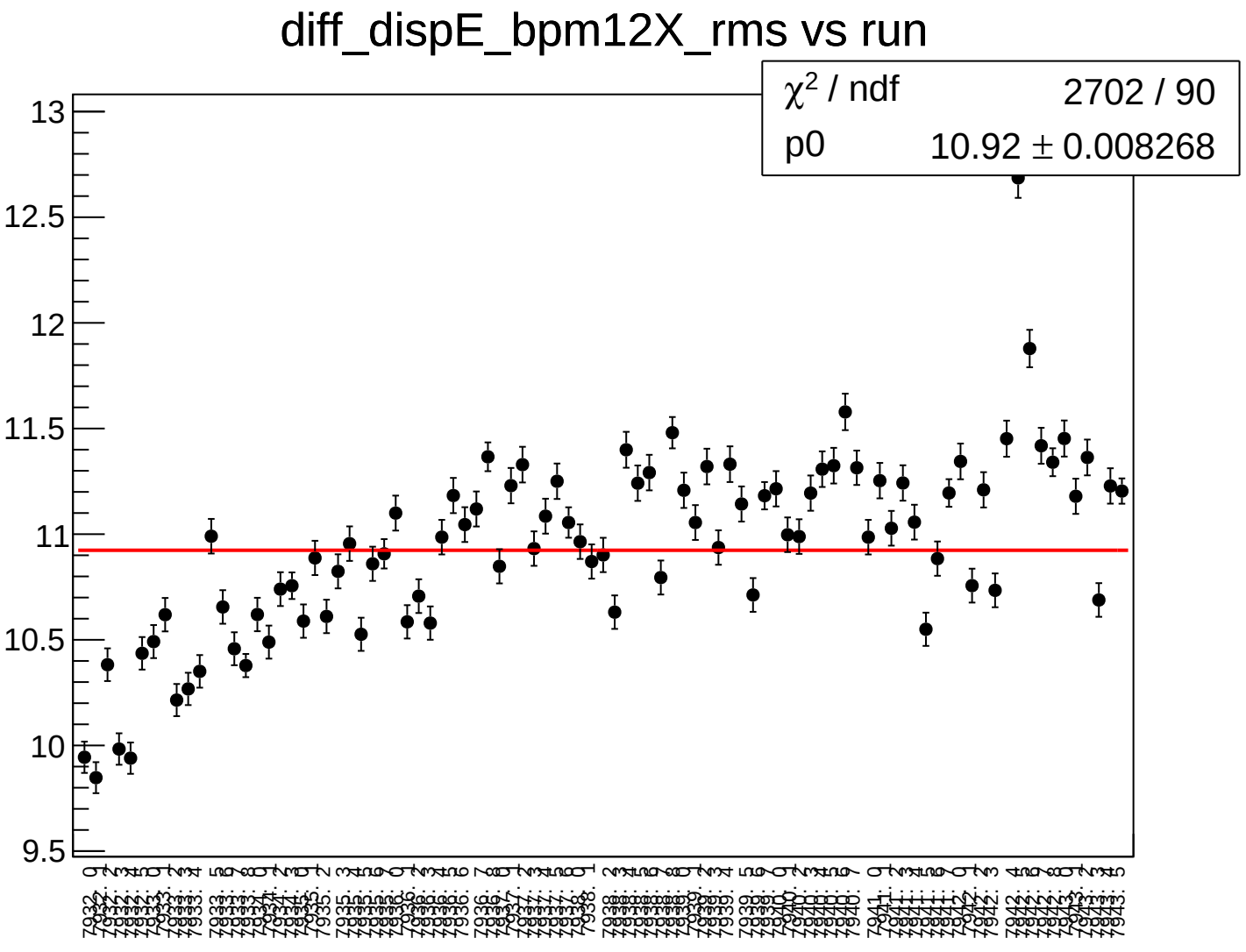

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 91.89 / 90
p0 0.0244 ± 0.8299
pull
Entries 91
Mean 174.5
Std Dev 0

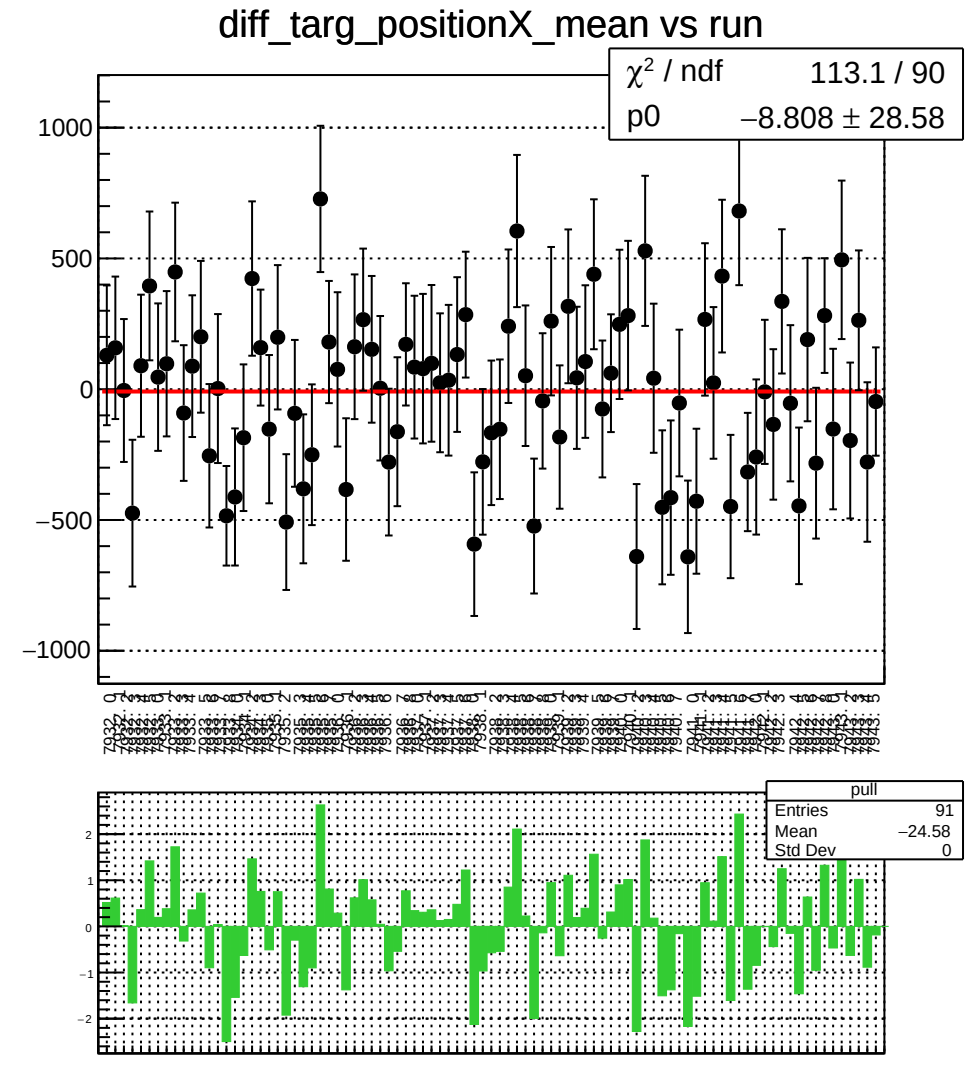

pull1D
Entries 91
Mean −0.03205
Std Dev 1.004

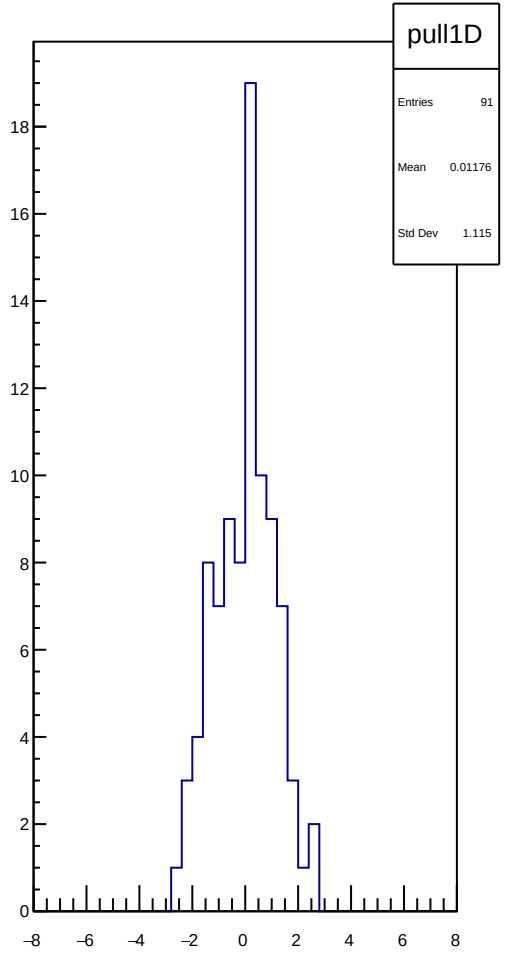

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 319.6 / 90
p0 775.9 ± 0.5869
810
800
790
780
770
760
750
740

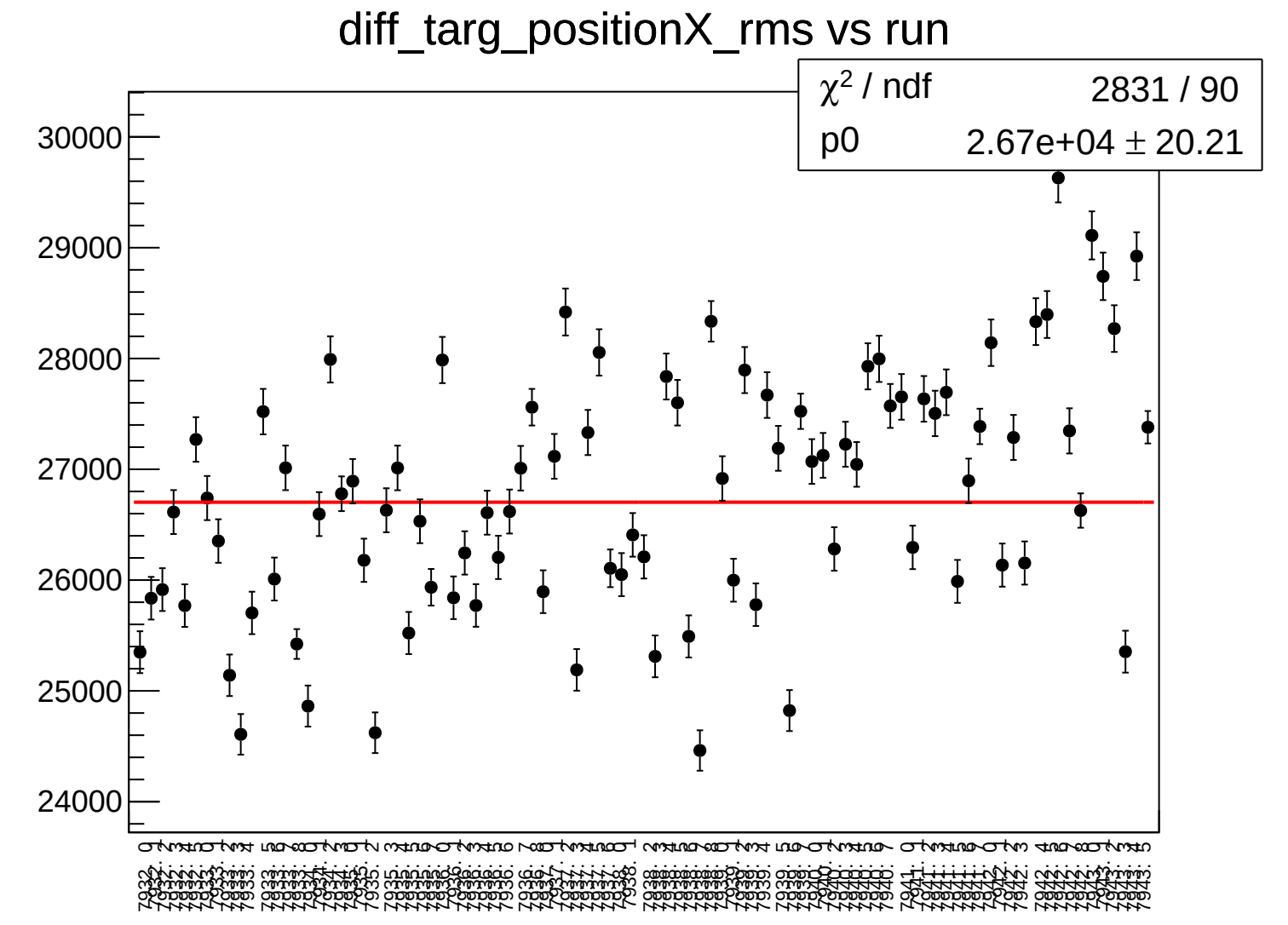

diff_dispE_bpm12X_mean vs run
χ² / ndf 118.8 / 90
p0 −0.003956 ± 0.01169
pull
Entries 91
Mean −418.4
Std Dev 0

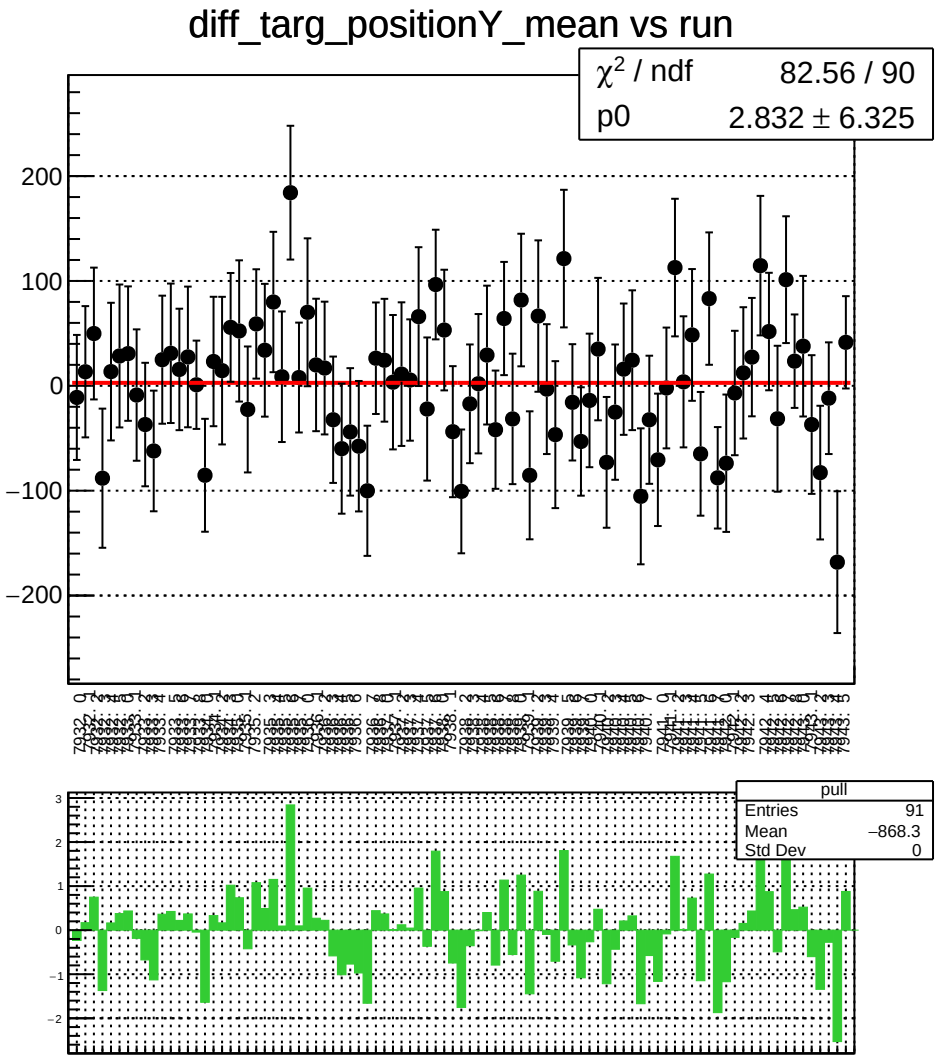

pull1D
Entries 91
Mean −0.002513
Std Dev 1.143

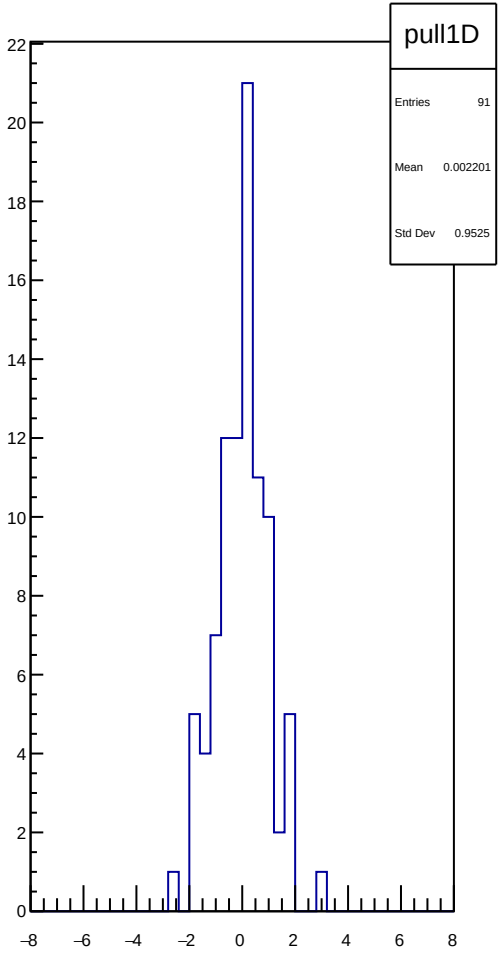

diff_dispE_bpm12X_rms vs run
χ² / ndf 2702 / 90
p0 10.92 ± 0.008268
13
12.5
12
11.5
11
10.5
10
9.5

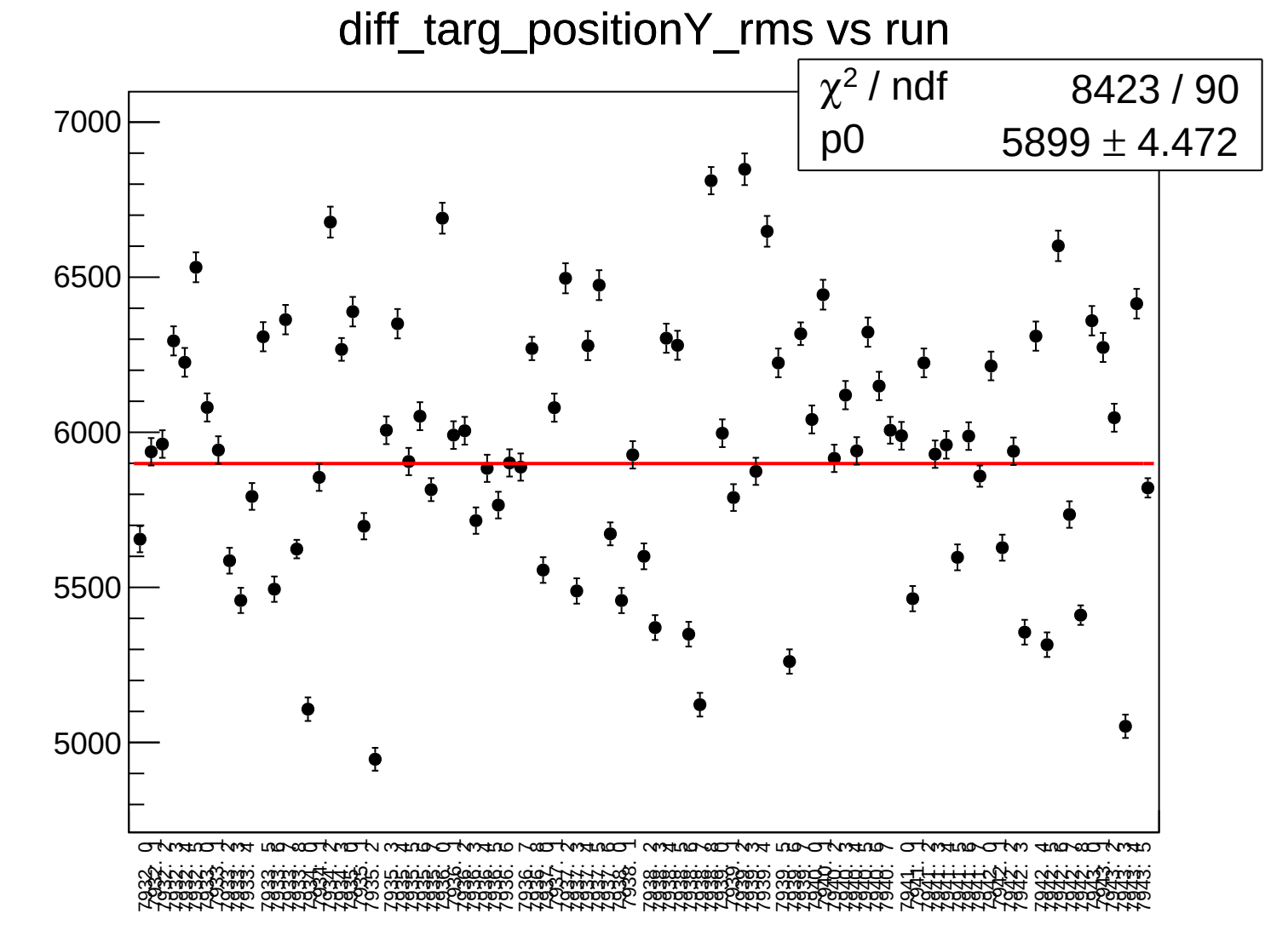

diff_targ_positionX_mean vs run
χ² / ndf 113.1 / 90
p0 −8.808 ± 28.58
1000
500
0
−500
−1000
pull
Entries 91
Mean −24.58
Std Dev 0
2
1
0
−1
−2

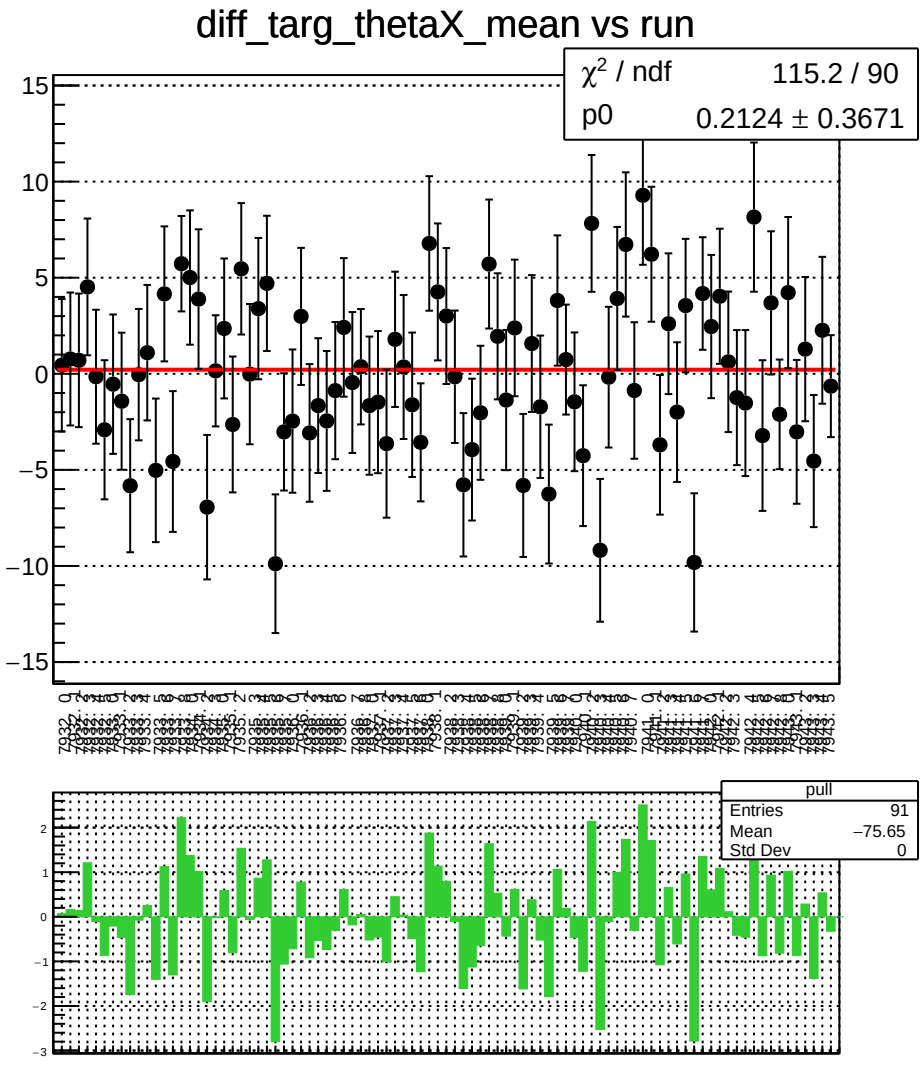

pull1D
Entries 91
Mean 0.01176
Std Dev 1.115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

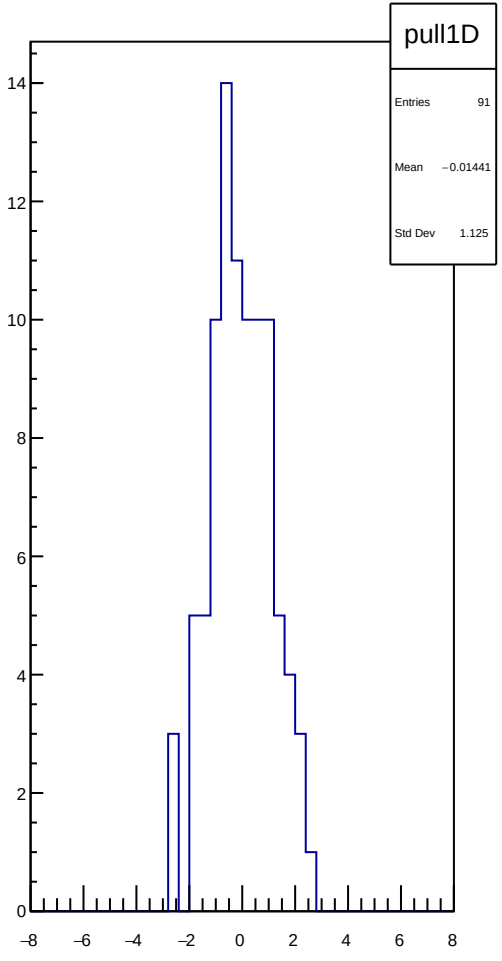

diff_targ_positionX_rms vs run
χ^2 / ndf 2831 / 90
p0 2.67e+04 ± 20.21
30000
29000
28000
27000
26000
25000
24000

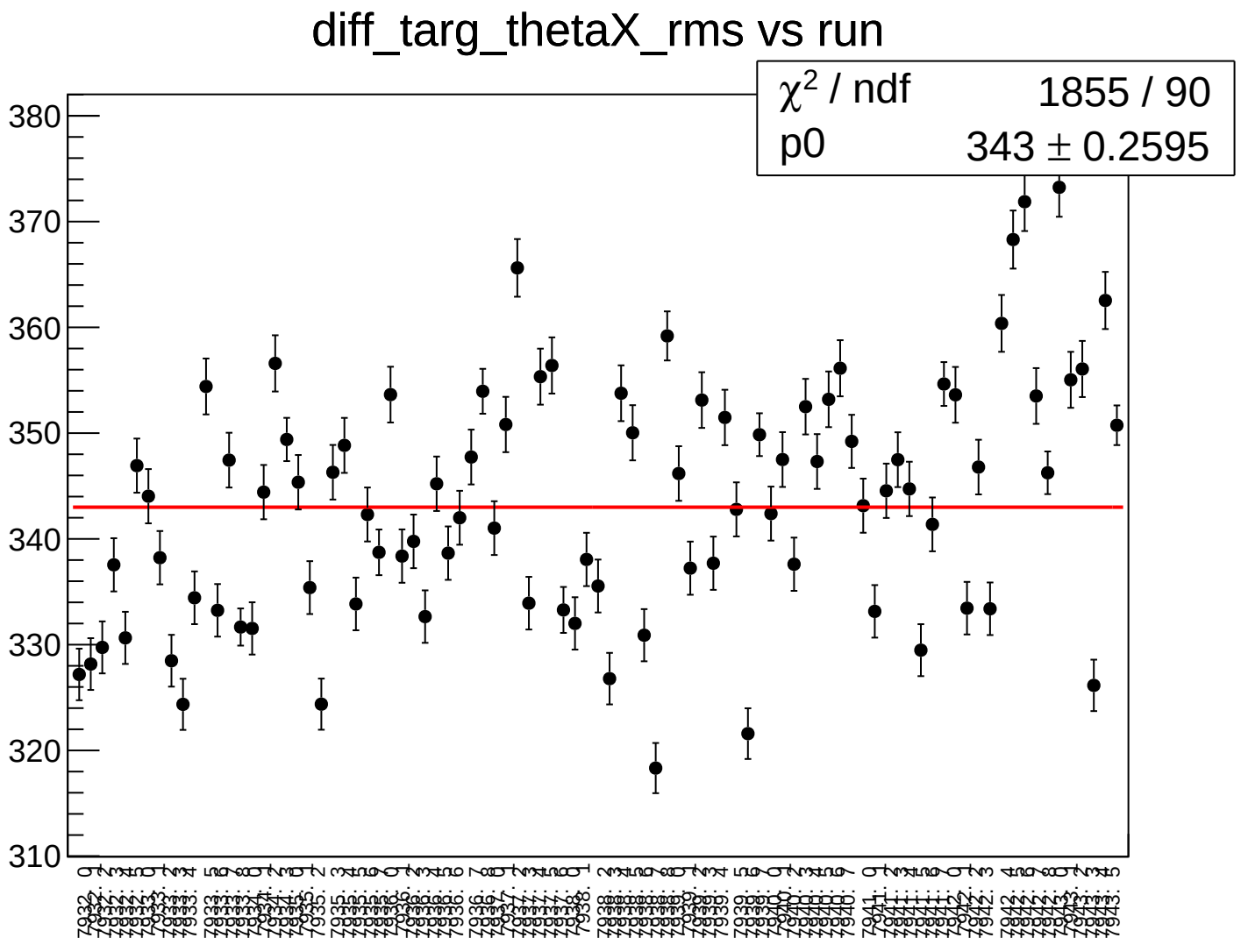

diff_targ_positionY_mean vs run
χ² / ndf 82.56 / 90
p0 2.832 ± 6.325
200
100
0
−100
−200
pull
Entries 91
Mean −868.3
Std Dev 0
3
2
1
0
−1
−2

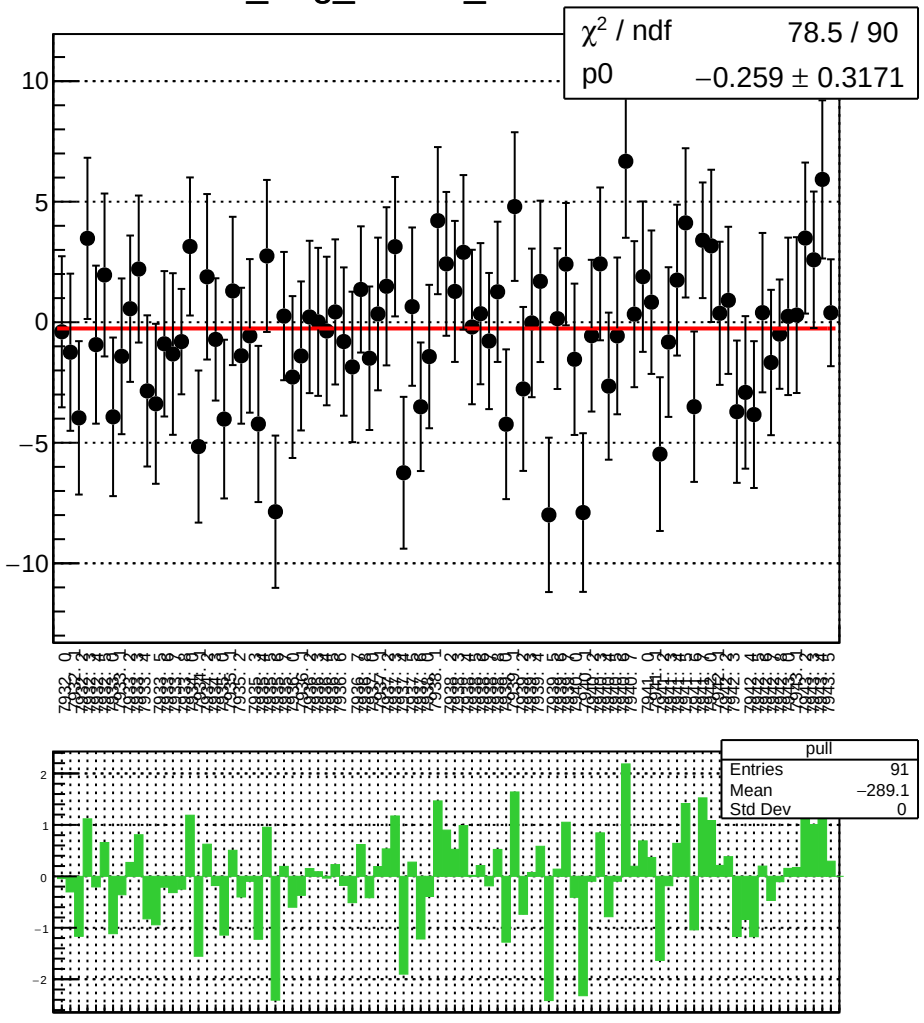

pull1D
Entries 91
Mean 0.002201
Std Dev 0.9525
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

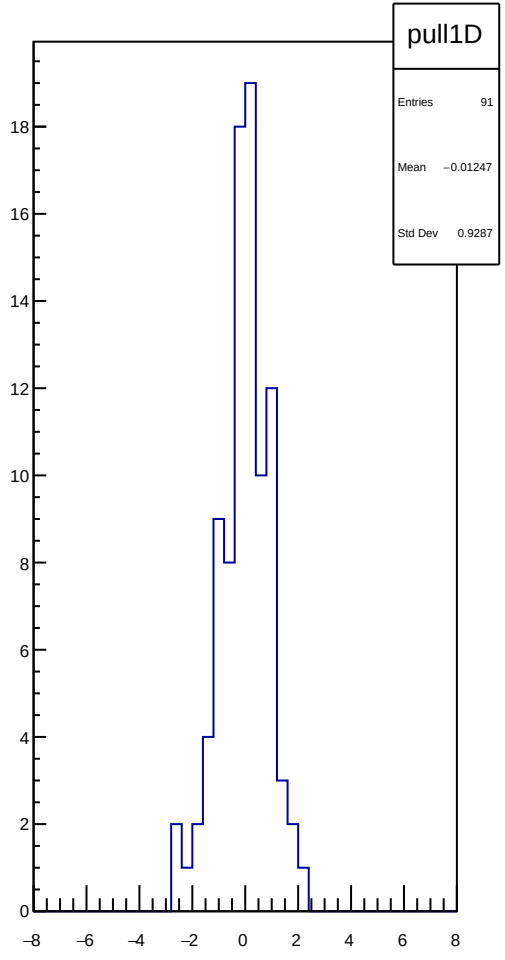

diff_targ_positionY_rms vs run
χ^2 / ndf 8423 / 90
p0 5899 ± 4.472
7000
6500
6000
5500
5000

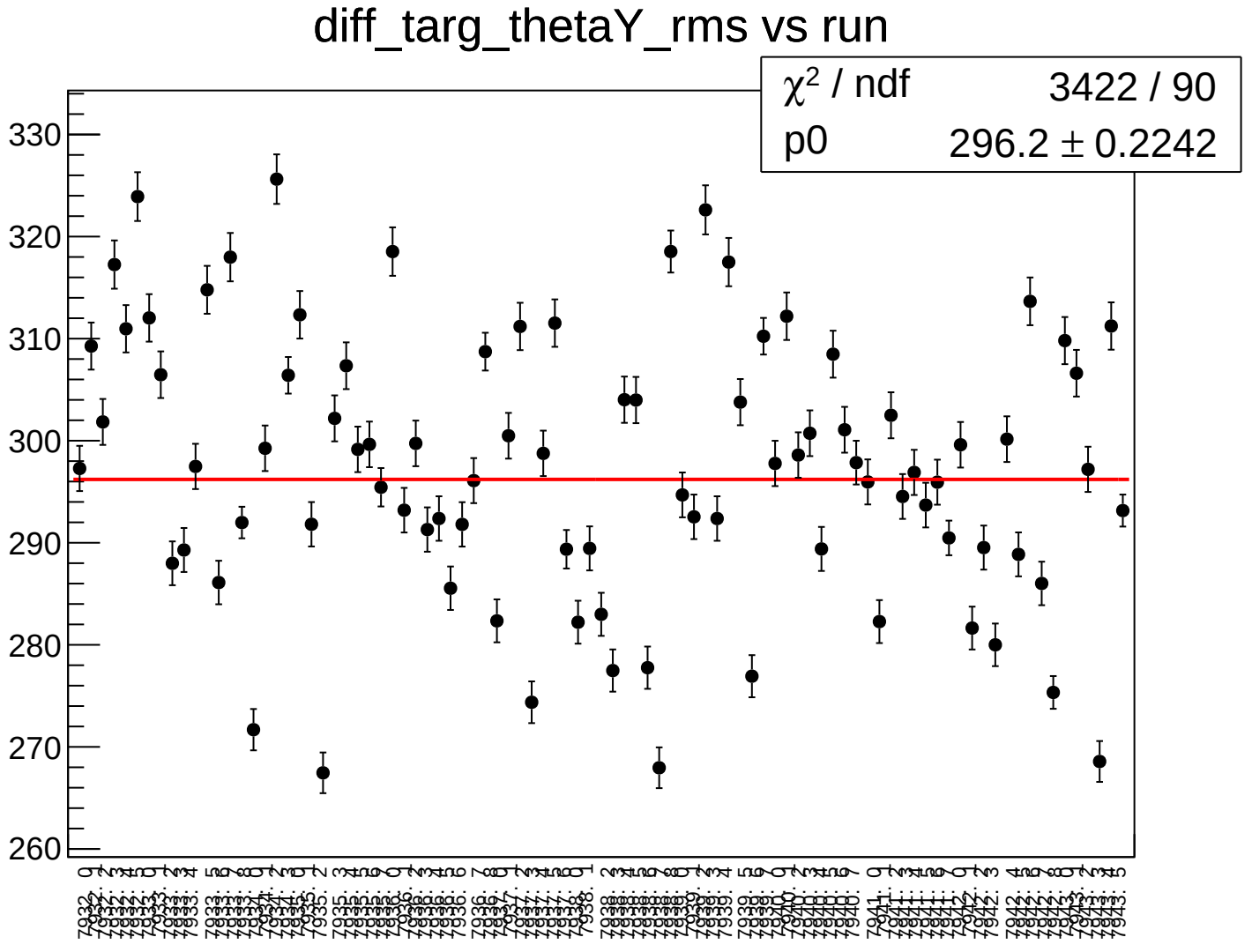

diff_targ_thetaX_mean vs run
χ² / ndf 115.2 / 90
p0 0.2124 ± 0.3671
pull
Entries 91
Mean −75.65
Std Dev 0

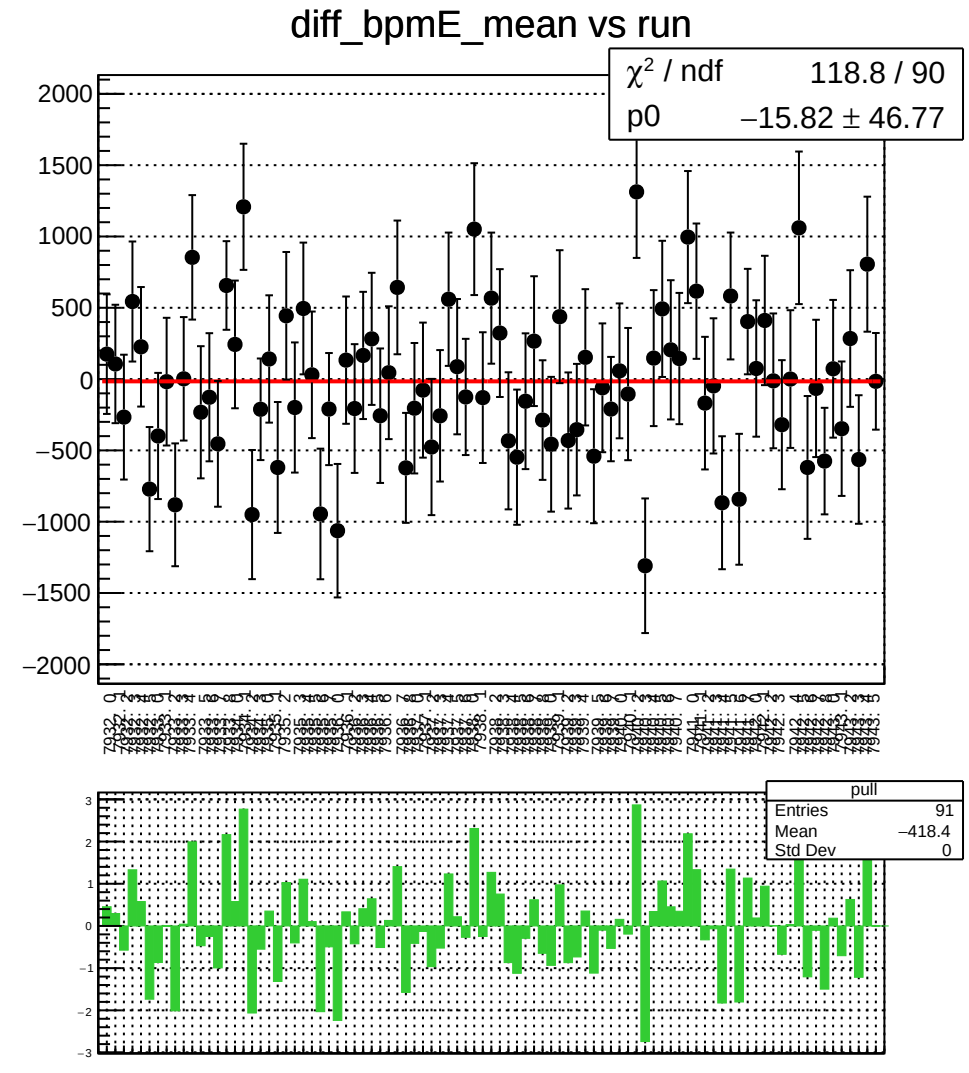

pull1D
Entries 91
Mean −0.01441
Std Dev 1.125

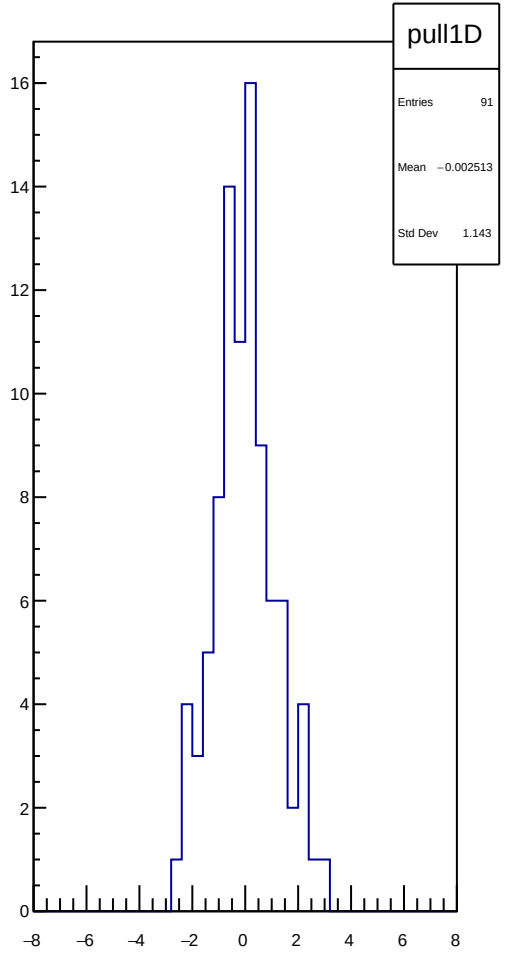

diff_targ_thetaX_rms vs run
χ² / ndf 1855 / 90
p0 343 ± 0.2595
380
370
360
350
340
330
320
310

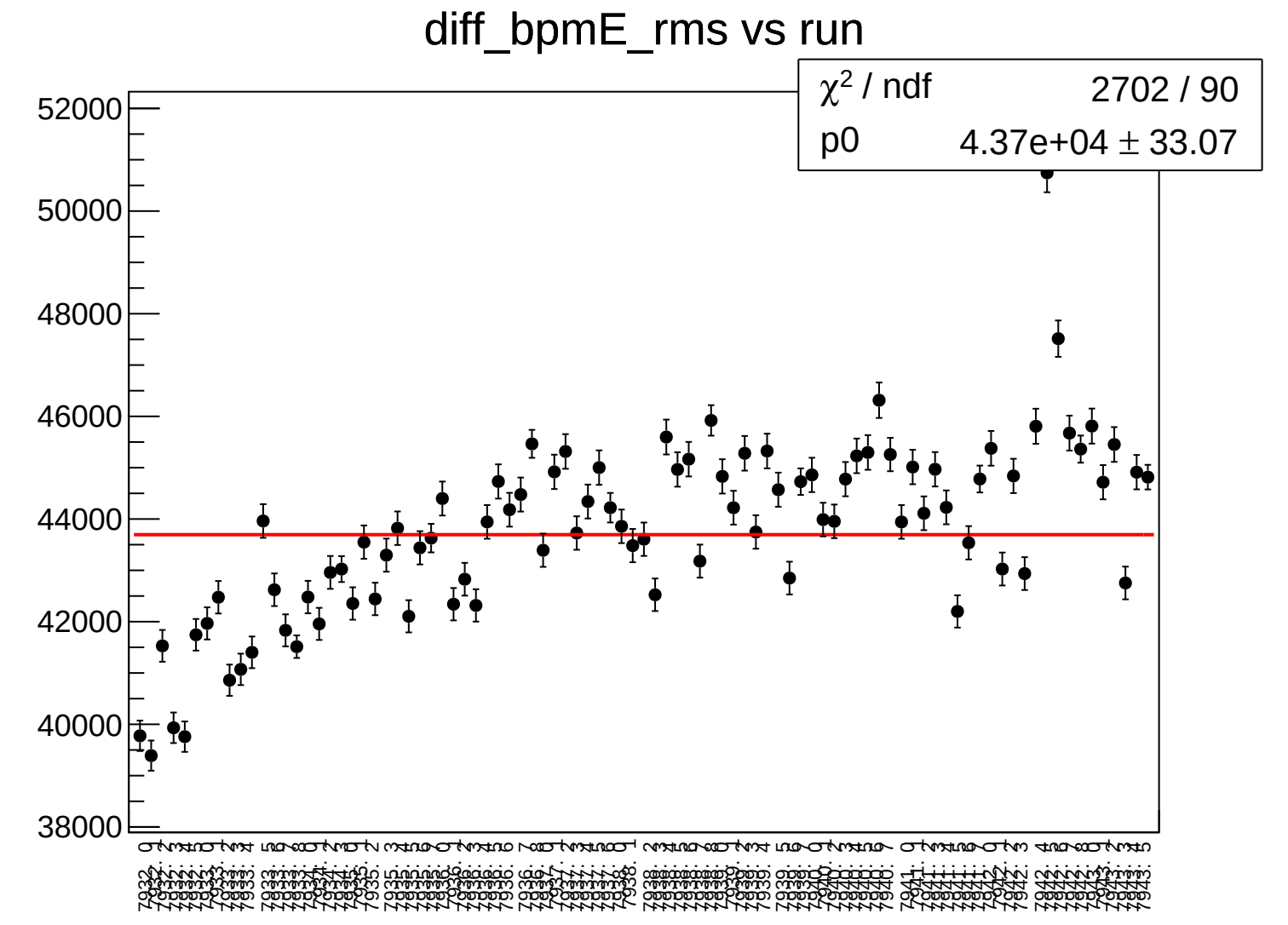

diff_targ_thetaY_mean vs run
χ² / ndf 78.5 / 90
p0 −0.259 ± 0.3171
pull
Entries 91
Mean −289.1
Std Dev 0

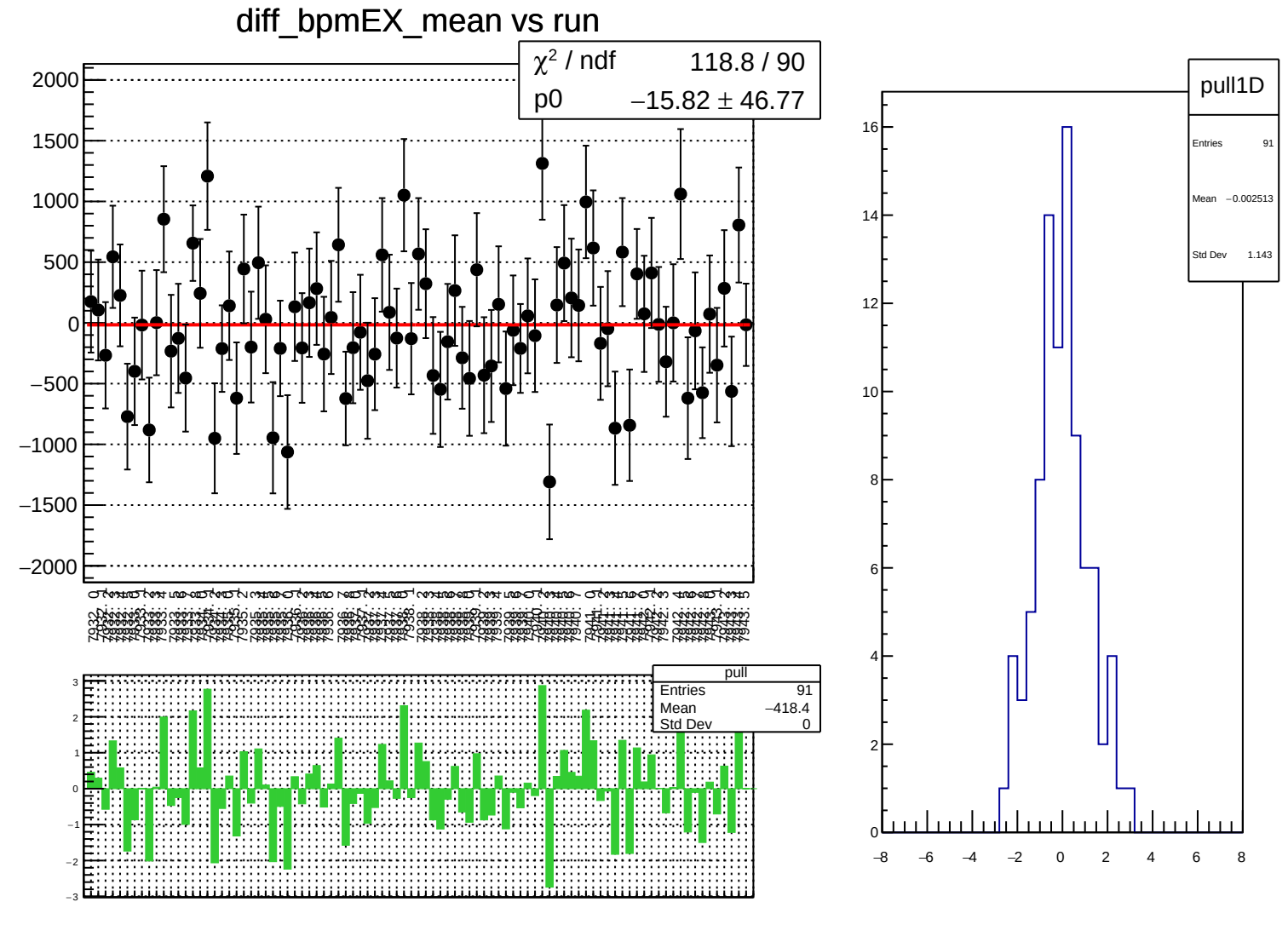

pull1D
Entries 91
Mean −0.01247
Std Dev 0.9287

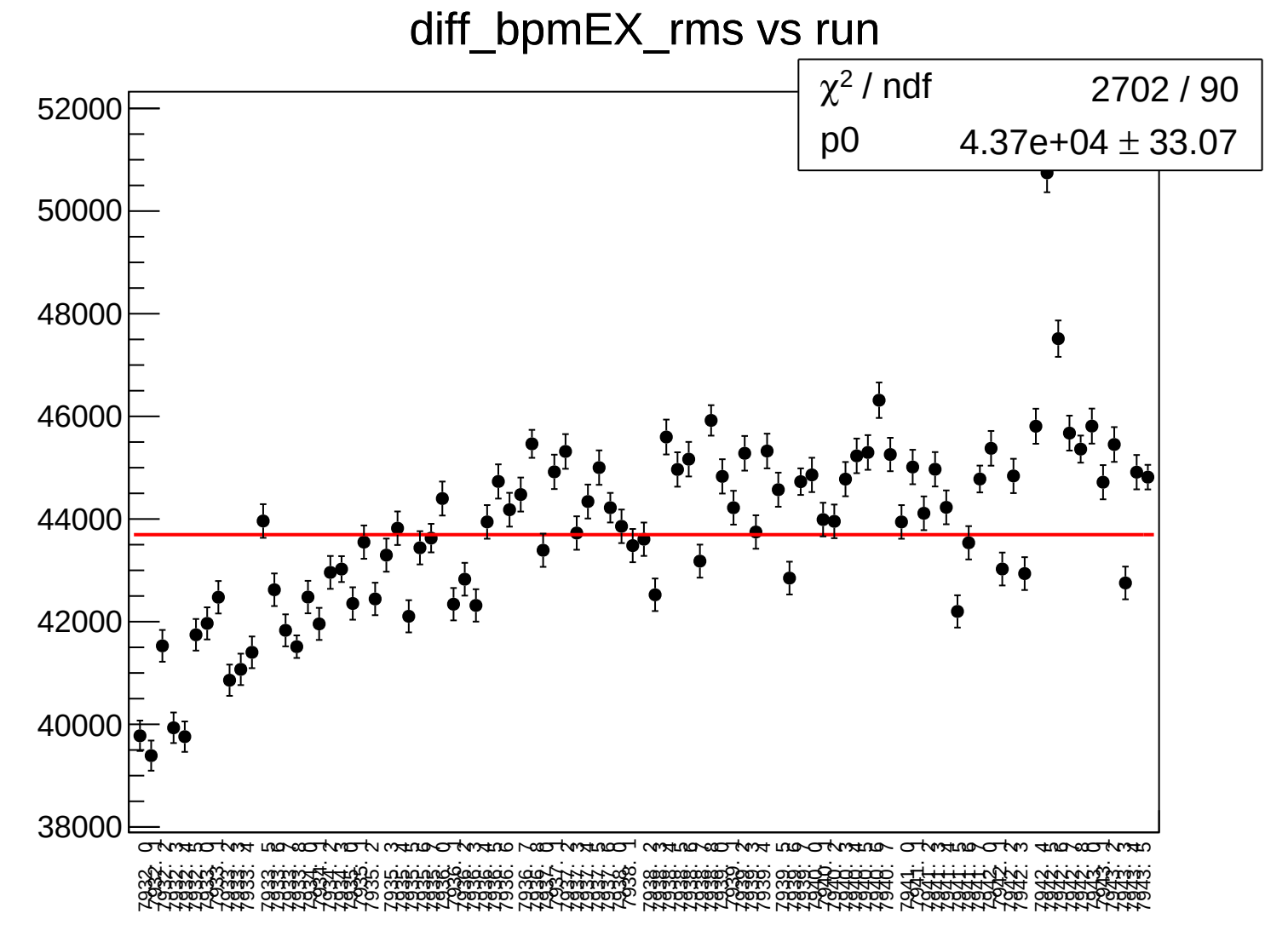

diff_targ_thetaY_rms vs run
χ² / ndf 3422 / 90
p0 296.2 ± 0.2242
330
320
310
300
290
280
270
260

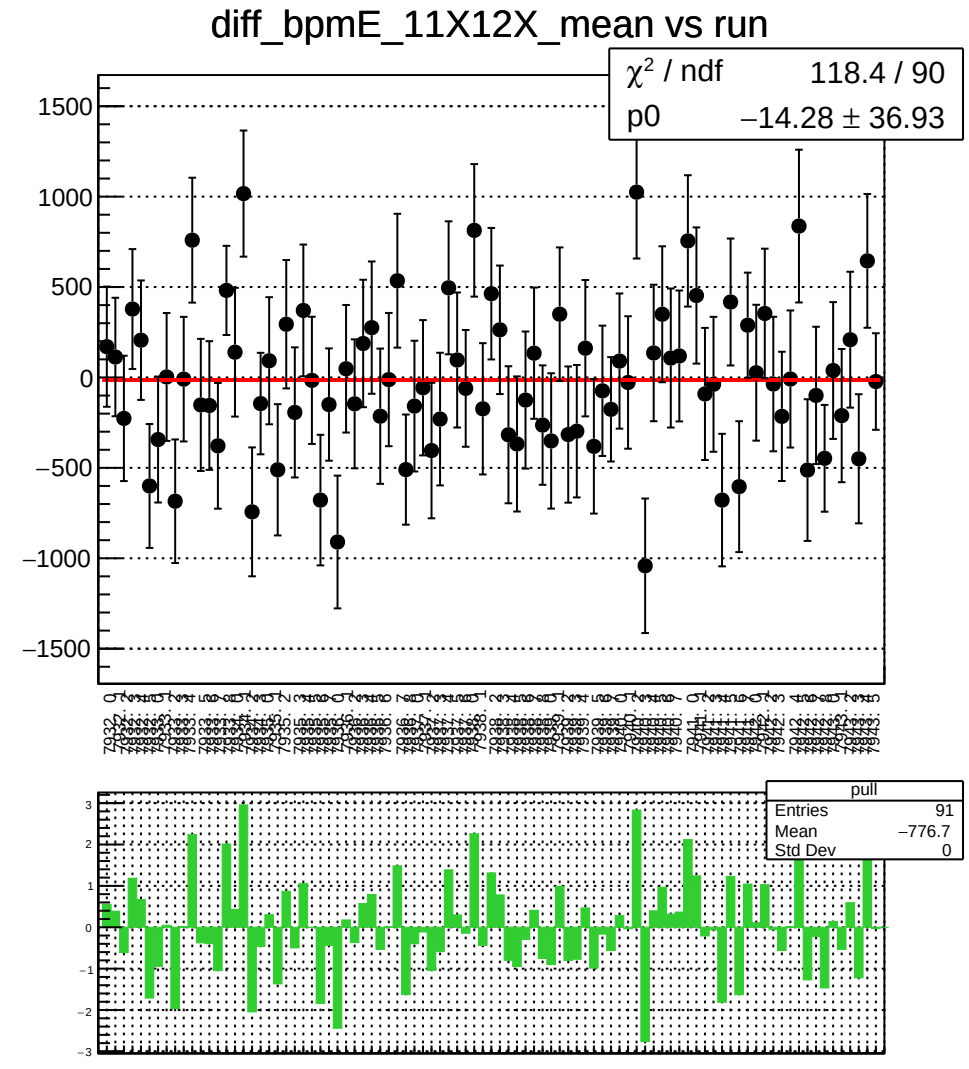

diff_bpmE_mean vs run
χ² / ndf 118.8 / 90
p0 −15.82 ± 46.77
pull
Entries 91
Mean −418.4
Std Dev 0

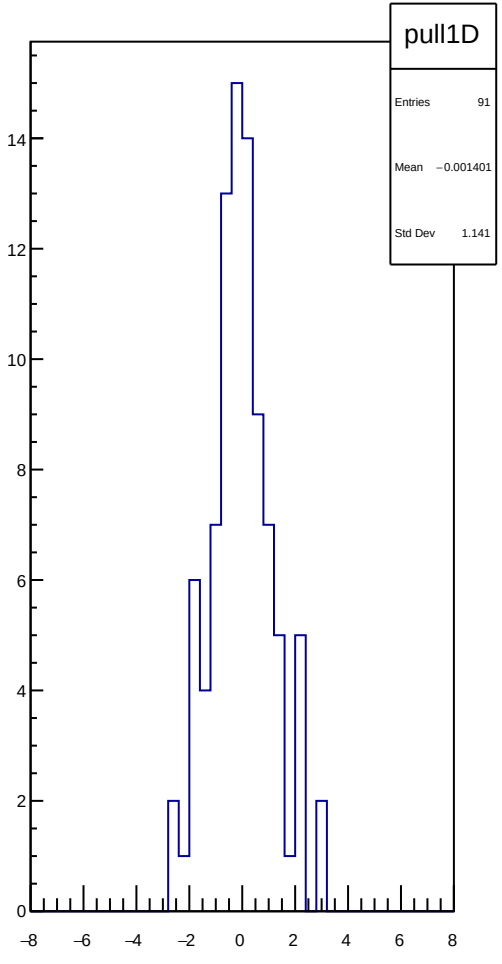

pull1D
Entries 91
Mean −0.002513
Std Dev 1.143

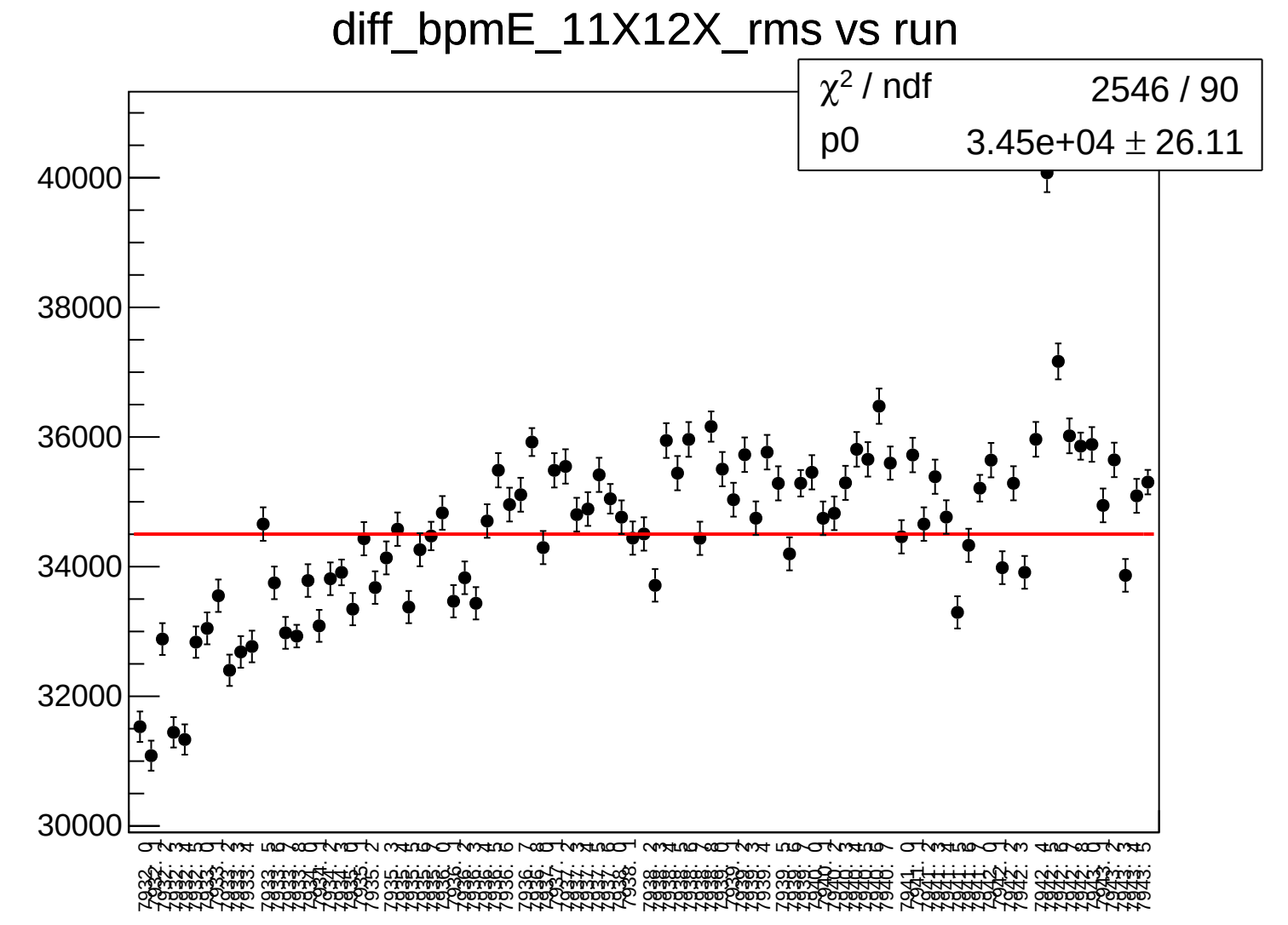

diff_bpmE_rms vs run
χ² / ndf 2702 / 90
p0 4.37e+04 ± 33.07
52000
50000
48000
46000
44000
42000
40000
38000

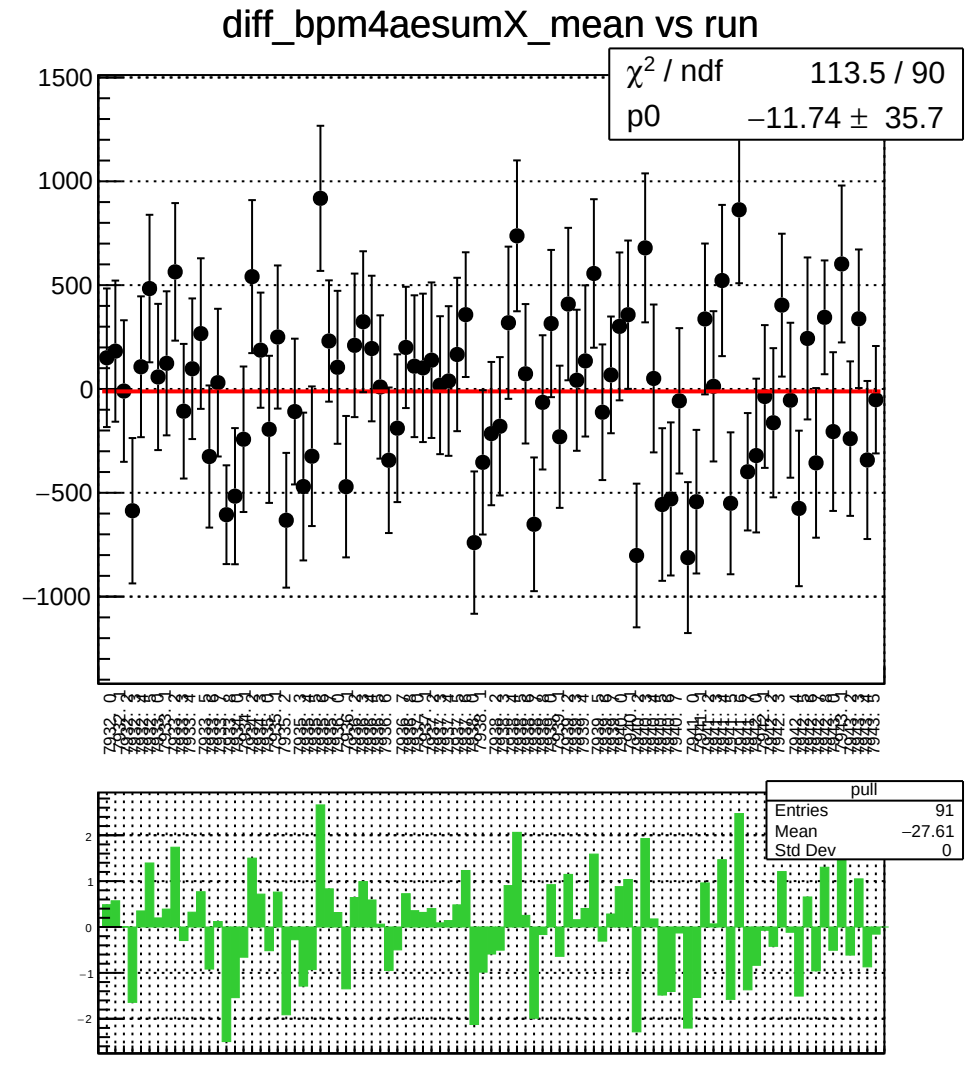

diff_bpmEX_mean vs run
χ² / ndf 118.8 / 90
p0 −15.82 ± 46.77
pull
Entries 91
Mean −418.4
Std Dev 0
pull1D
Entries 91
Mean −0.002513
Std Dev 1.143

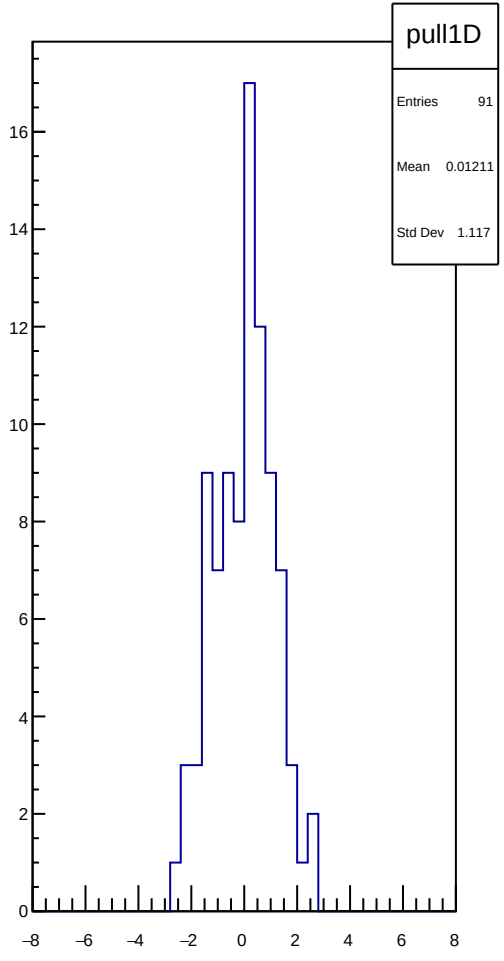

diff_bpmEX_rms vs run
χ² / ndf 2702 / 90
p0 4.37e+04 ± 33.07
52000
50000
48000
46000
44000
42000
40000
38000

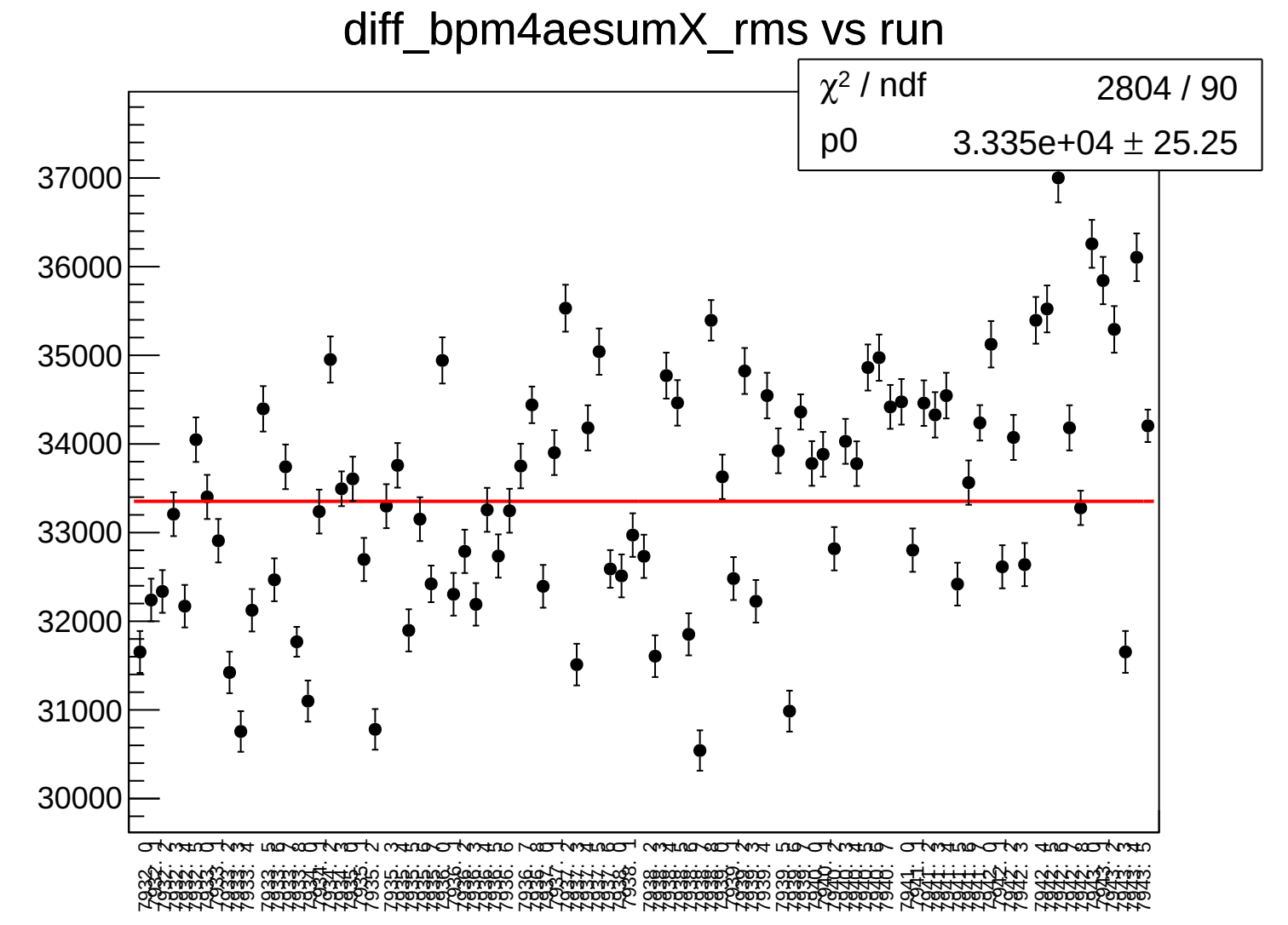

diff_bpmE_11X12X_mean vs run
χ² / ndf 118.4 / 90
p0 −14.28 ± 36.93
pull
Entries 91
Mean −776.7
Std Dev 0

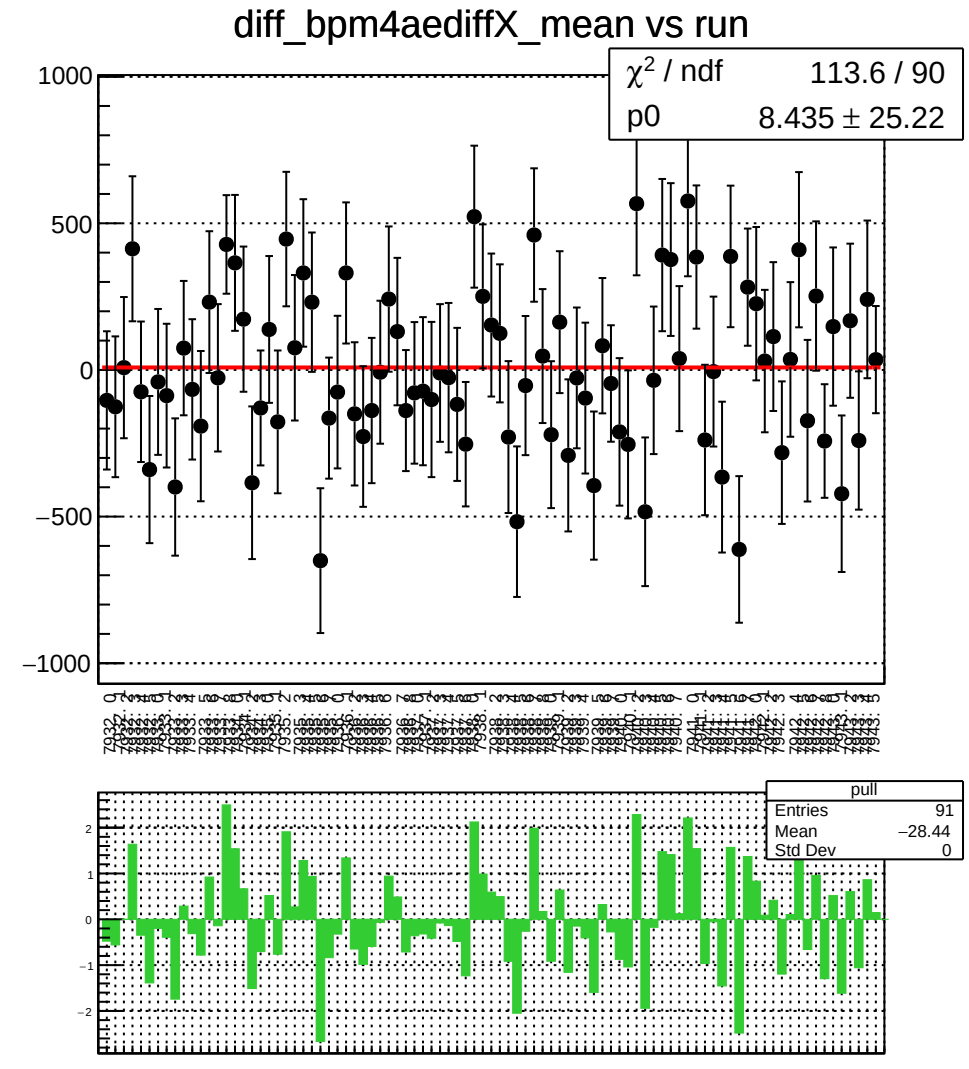

pull1D
Entries 91
Mean −0.001401
Std Dev 1.141

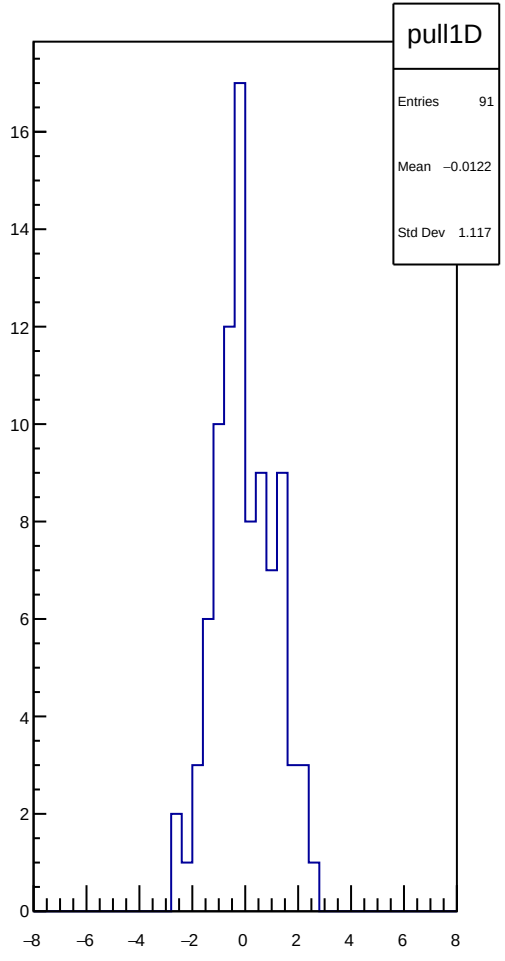

diff_bpmE_11X12X_rms vs run
χ^2 / ndf 2546 / 90
p0 3.45e+04 ± 26.11
40000
38000
36000
34000
32000
30000

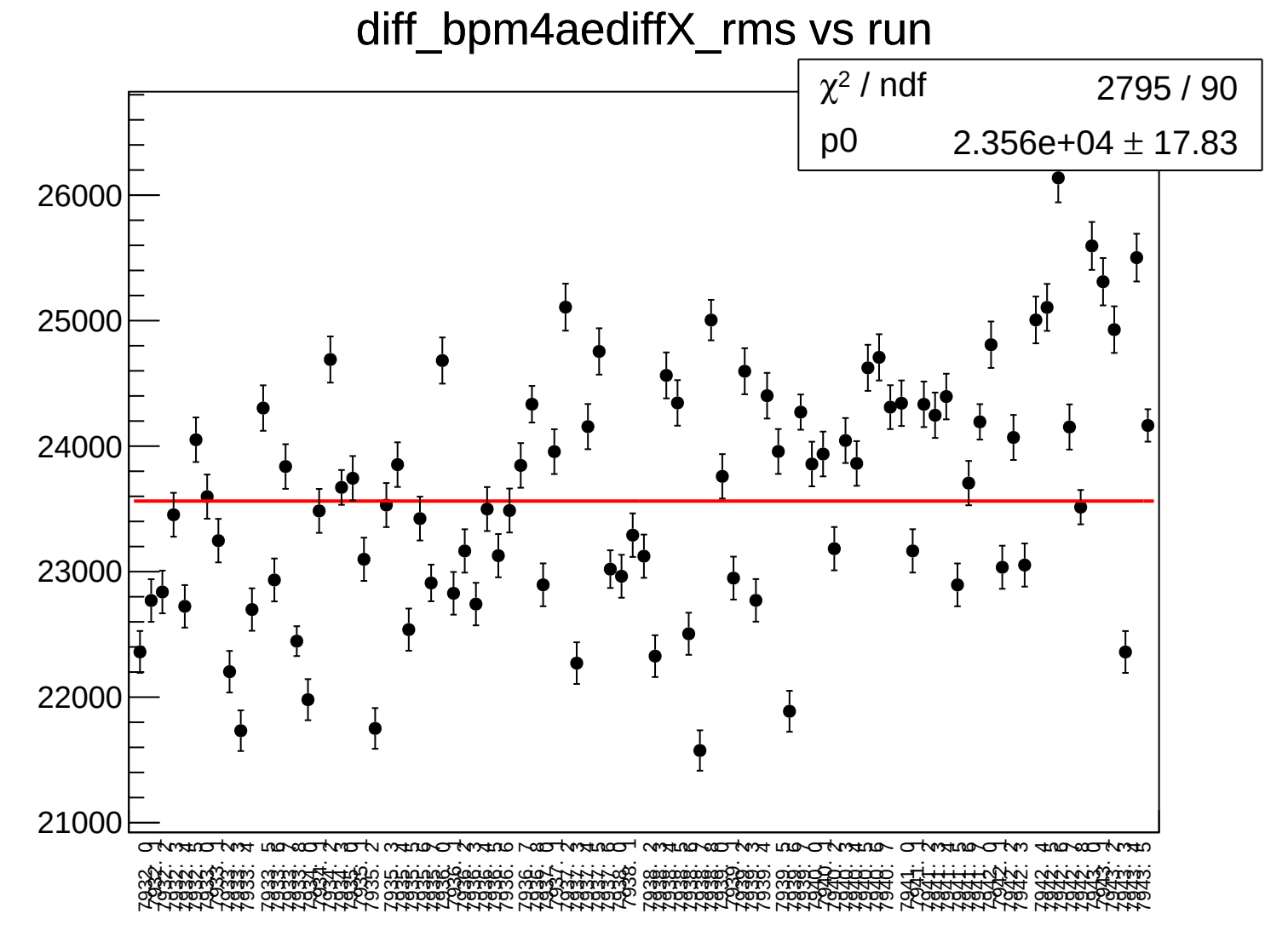

diff_bpm4aesumX_mean vs run
χ² / ndf 113.5 / 90
p0 −11.74 ± 35.7
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean −27.61
Std Dev 0
2
1
0
−1
−2

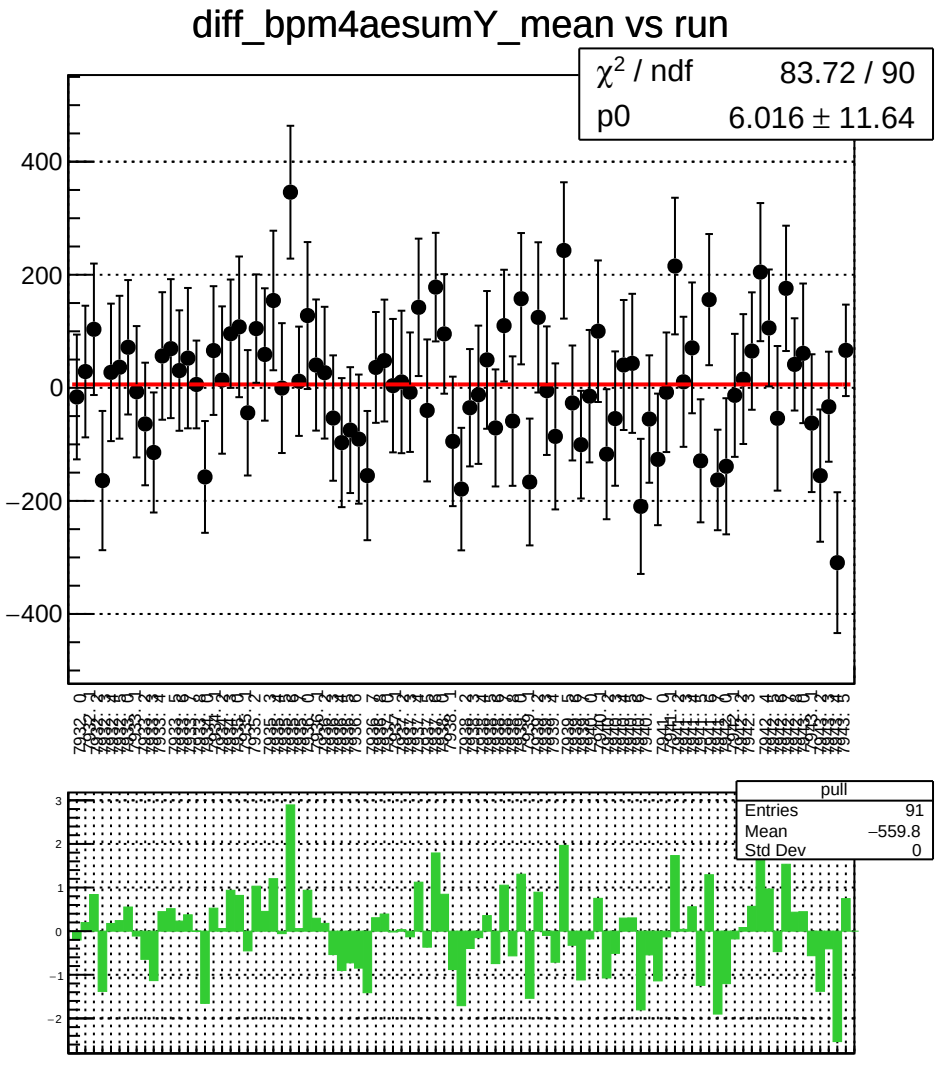

pull1D
Entries 91
Mean 0.01211
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

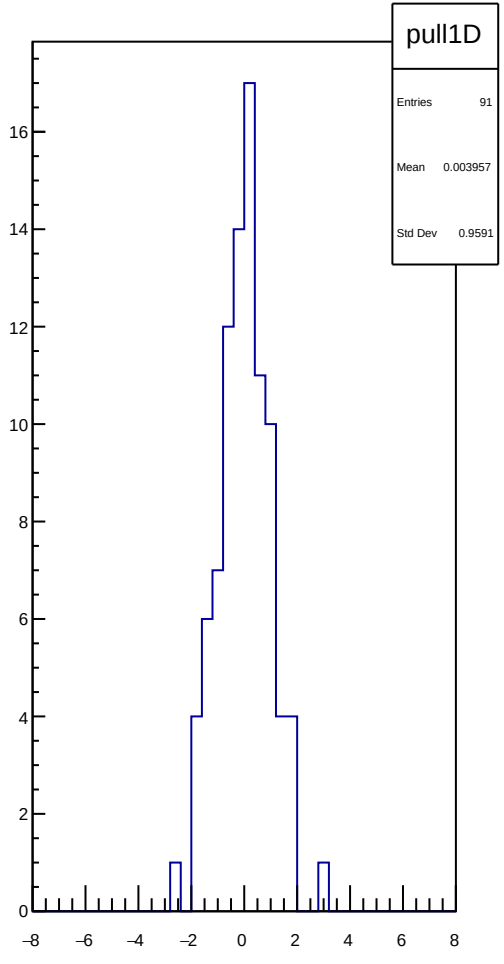

diff_bpm4aesumX_rms vs run
χ² / ndf 2804 / 90
p0 3.335e+04 ± 25.25
37000
36000
35000
34000
33000
32000
31000
30000

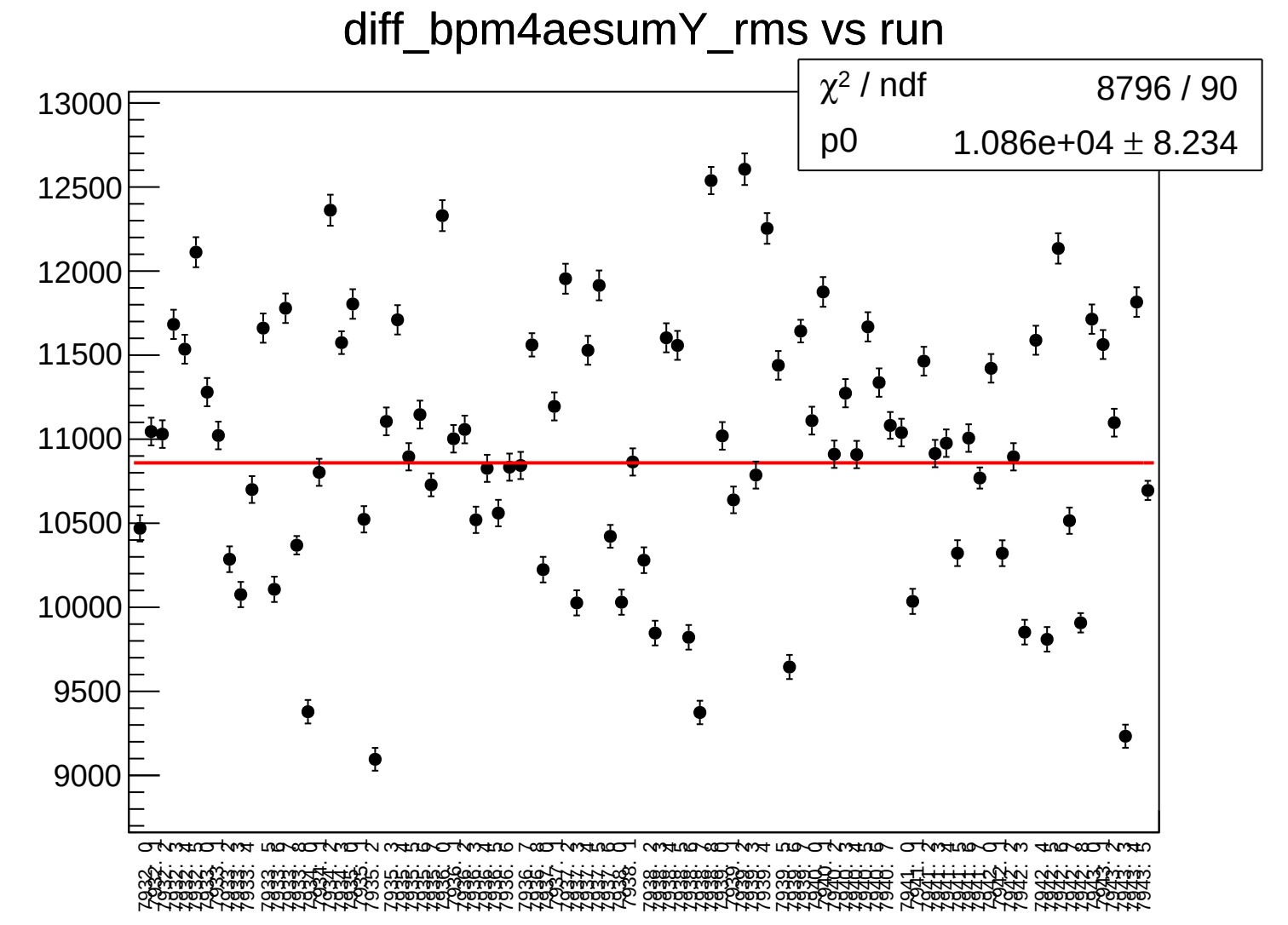

diff_bpm4aediffX_mean vs run
χ² / ndf 113.6 / 90
p0 8.435 ± 25.22
1000
500
0
−500
−1000
pull
Entries 91
Mean −28.44
Std Dev 0
2
1
0
−1
−2

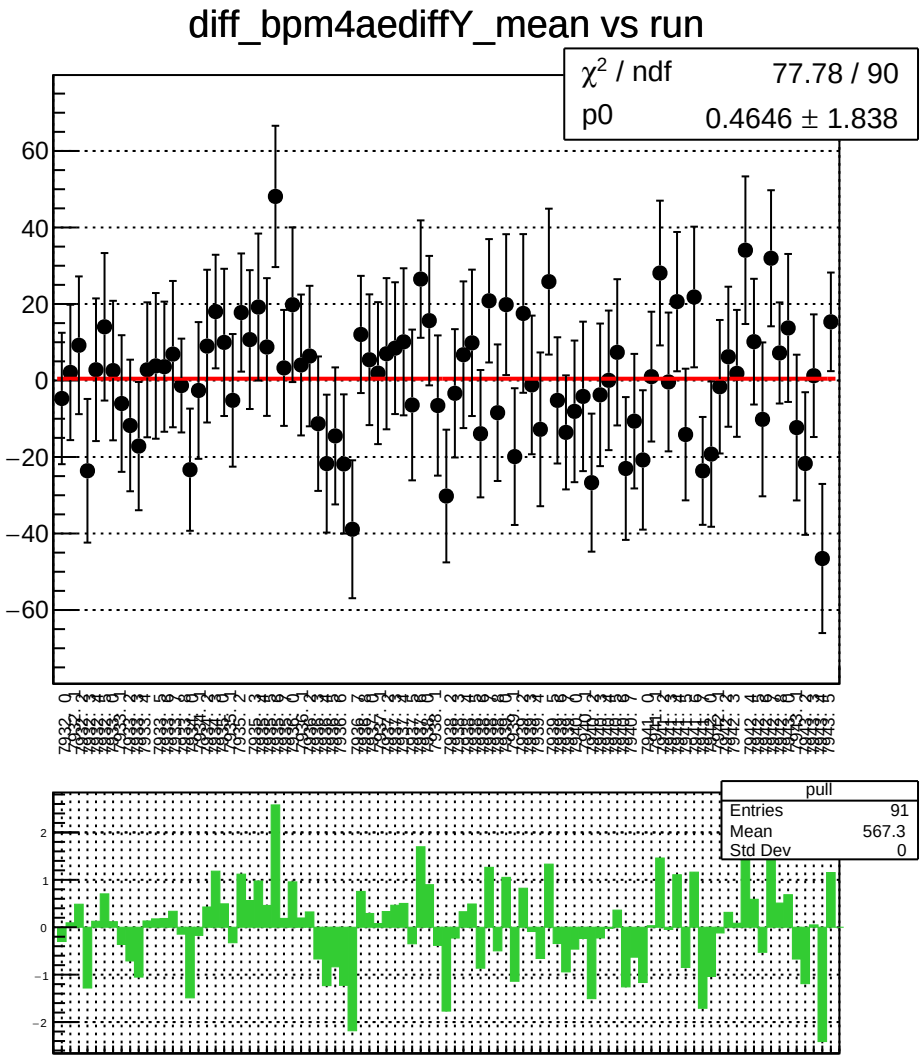

pull1D
Entries 91
Mean −0.0122
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

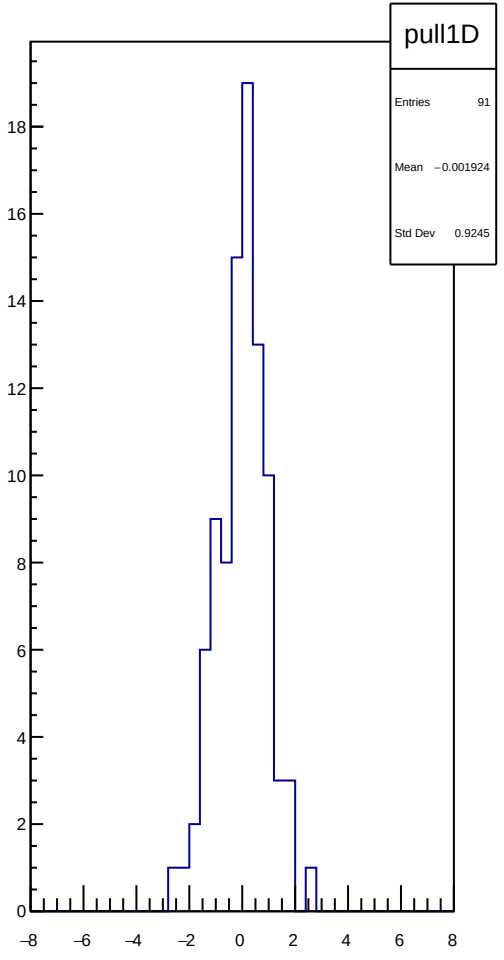

diff_bpm4aediffX_rms vs run
χ² / ndf 2795 / 90
p0 2.356e+04 ± 17.83
26000
25000
24000
23000
22000
21000

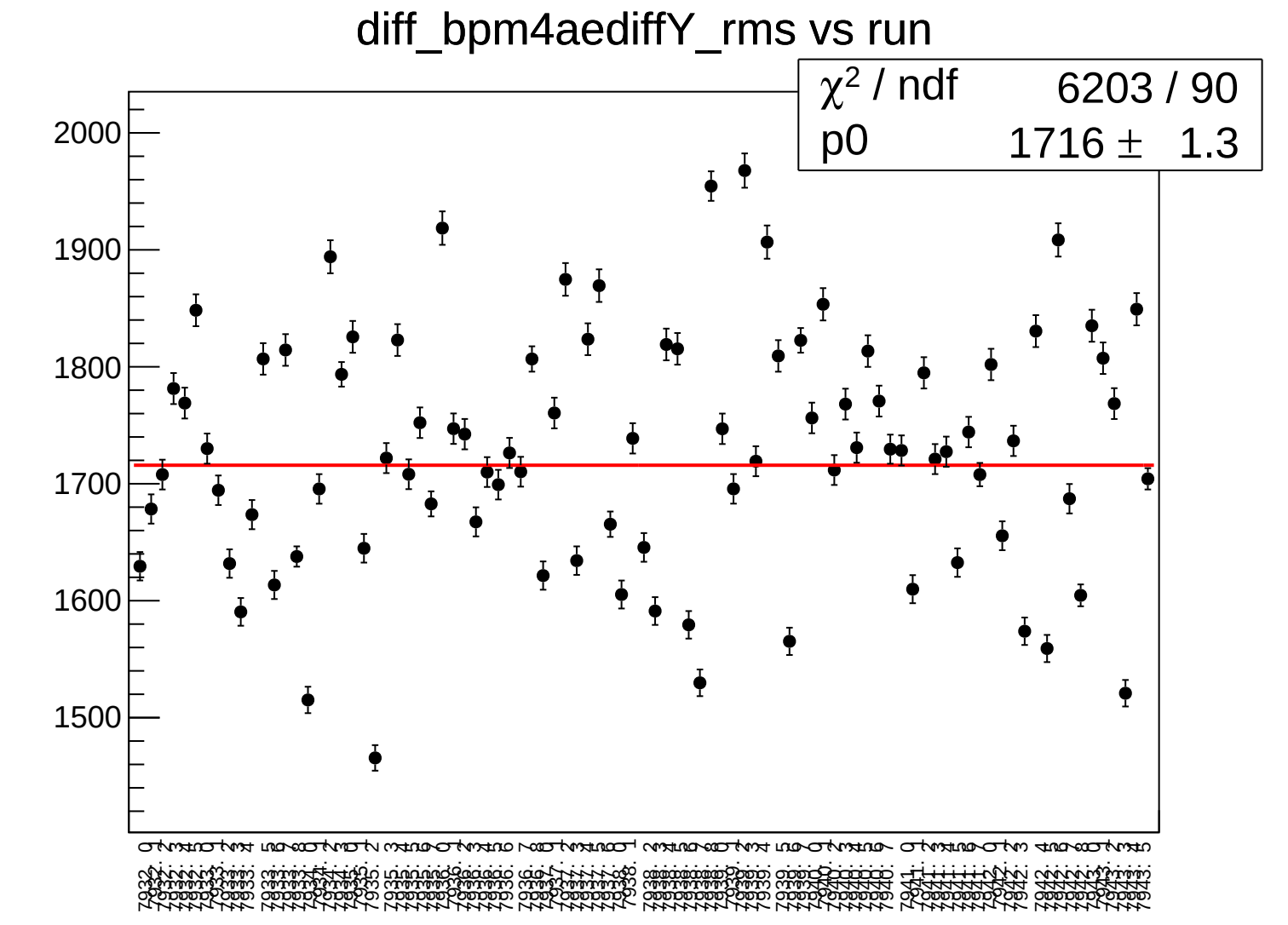

diff_bpm4aesumY_mean vs run
χ² / ndf 83.72 / 90
p0 6.016 ± 11.64
400
200
0
−200
−400
pull
Entries 91
Mean −559.8
Std Dev 0
3
2
1
0
−1
−2

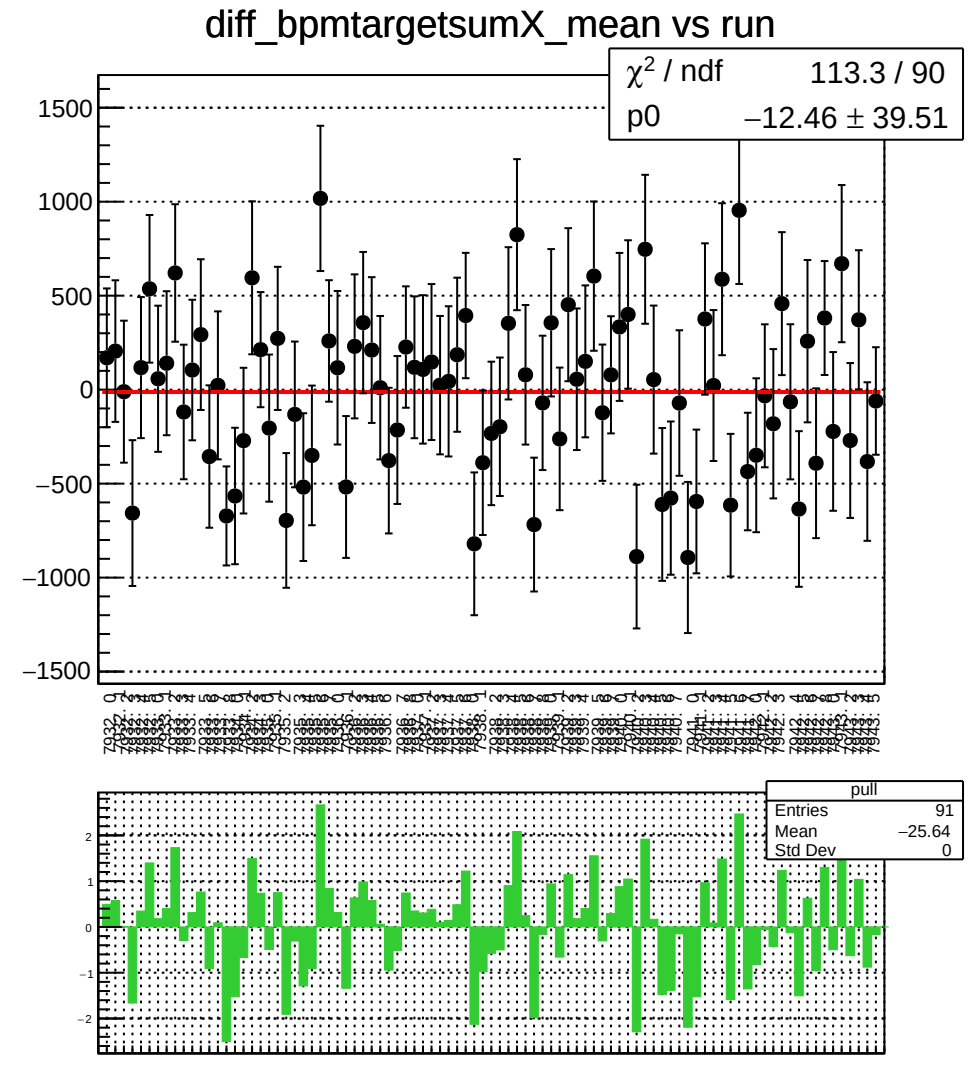

pull1D
Entries 91
Mean 0.003957
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

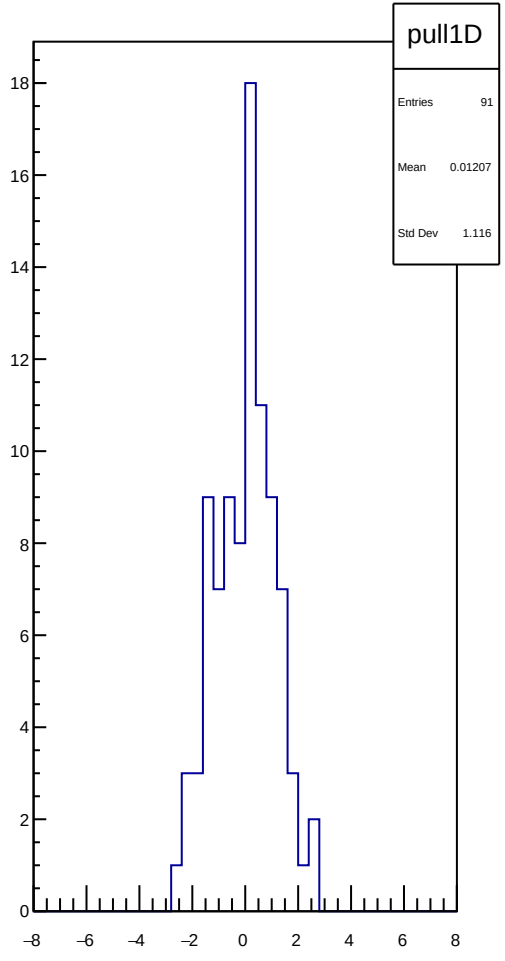

diff_bpm4aesumY_rms vs run
χ² / ndf 8796 / 90
p0 1.086e+04 ± 8.234
13000
12500
12000
11500
11000
10500
10000
9500
9000

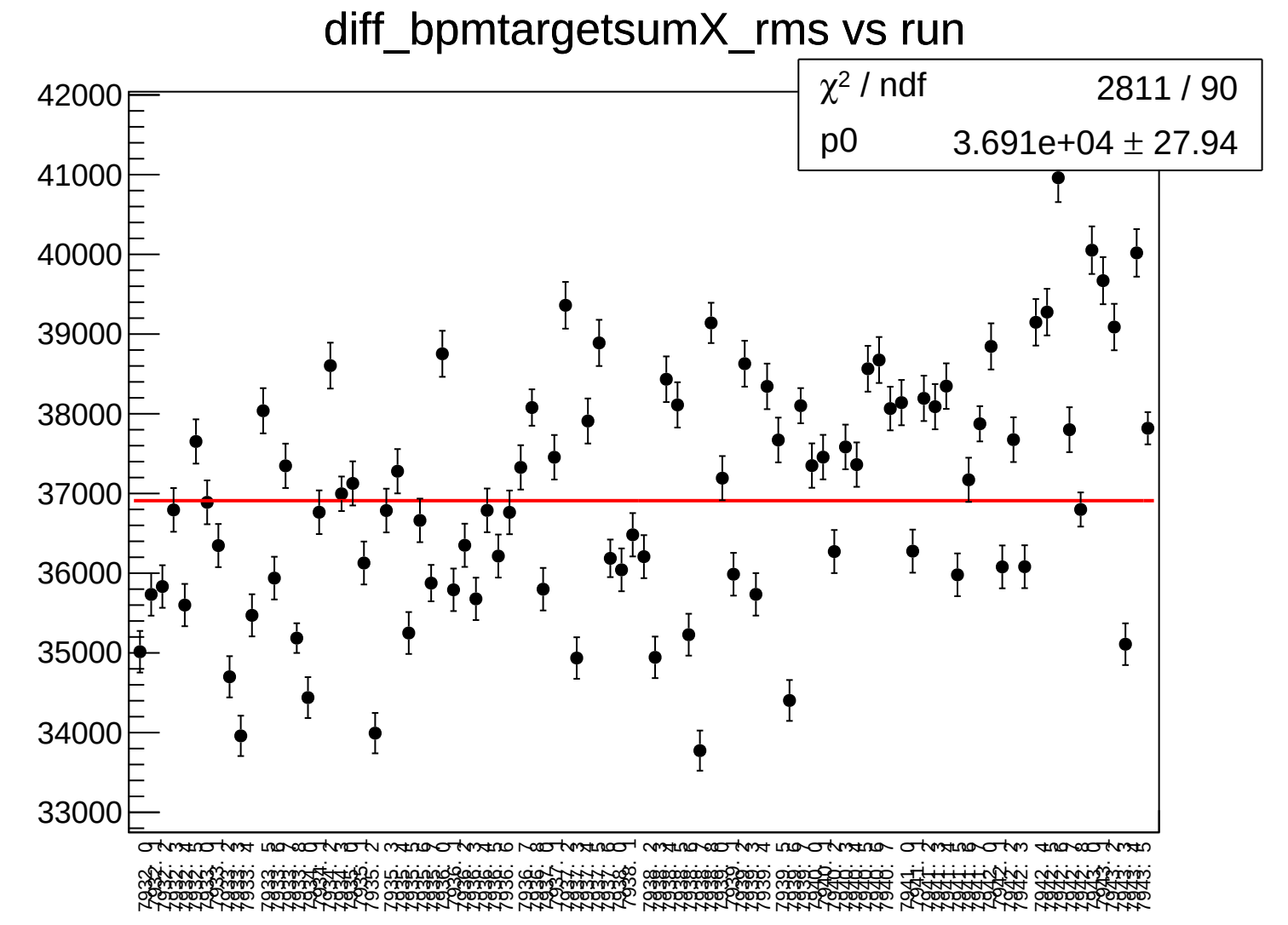

diff_bpm4aediffY_mean vs run
χ² / ndf 77.78 / 90
p0 0.4646 ± 1.838
pull
Entries 91
Mean 567.3
Std Dev 0

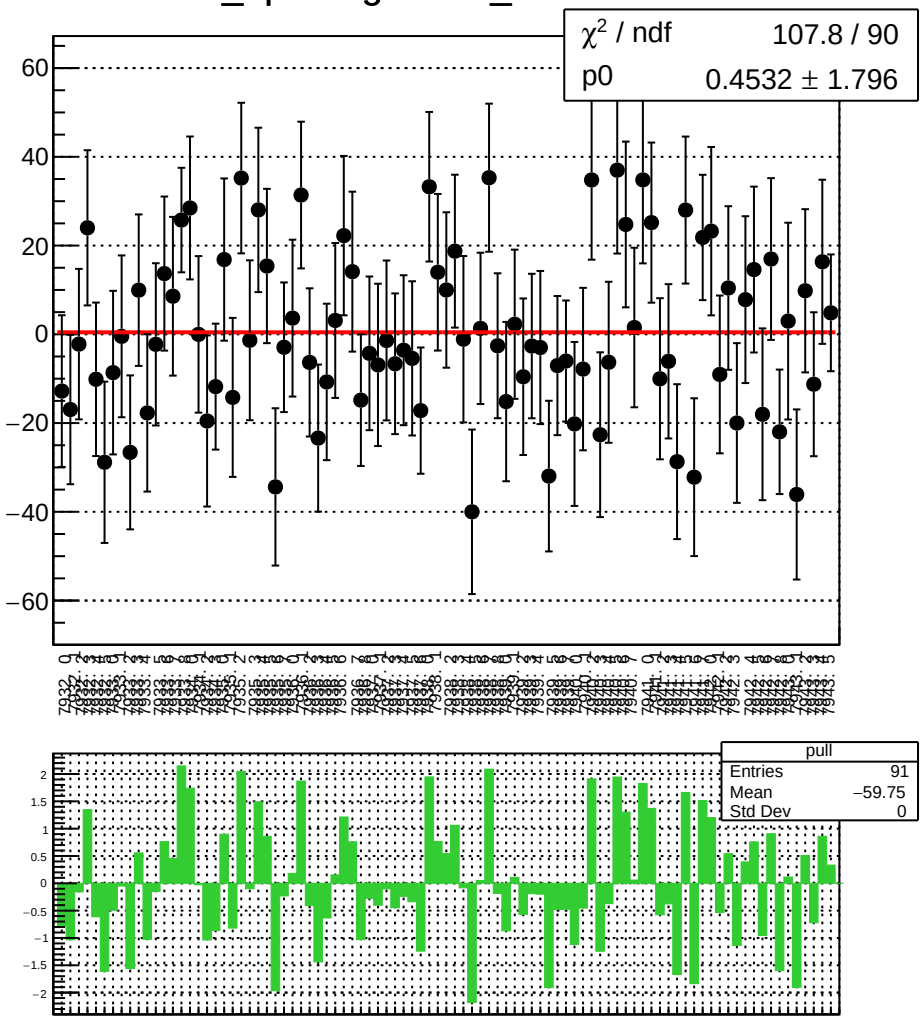

pull1D
Entries 91
Mean −0.001924
Std Dev 0.9245

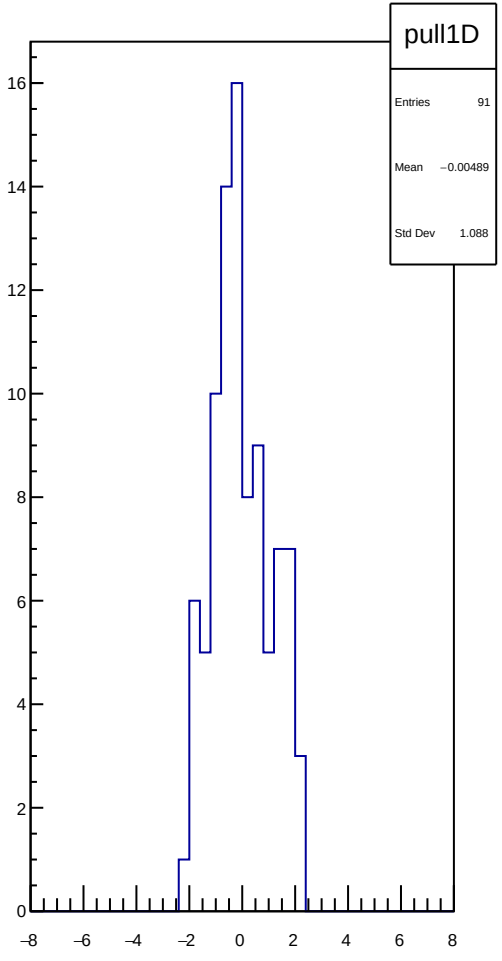

diff_bpm4aediffY_rms vs run
χ² / ndf 6203 / 90
p0 1716 ± 1.3
2000
1900
1800
1700
1600
1500

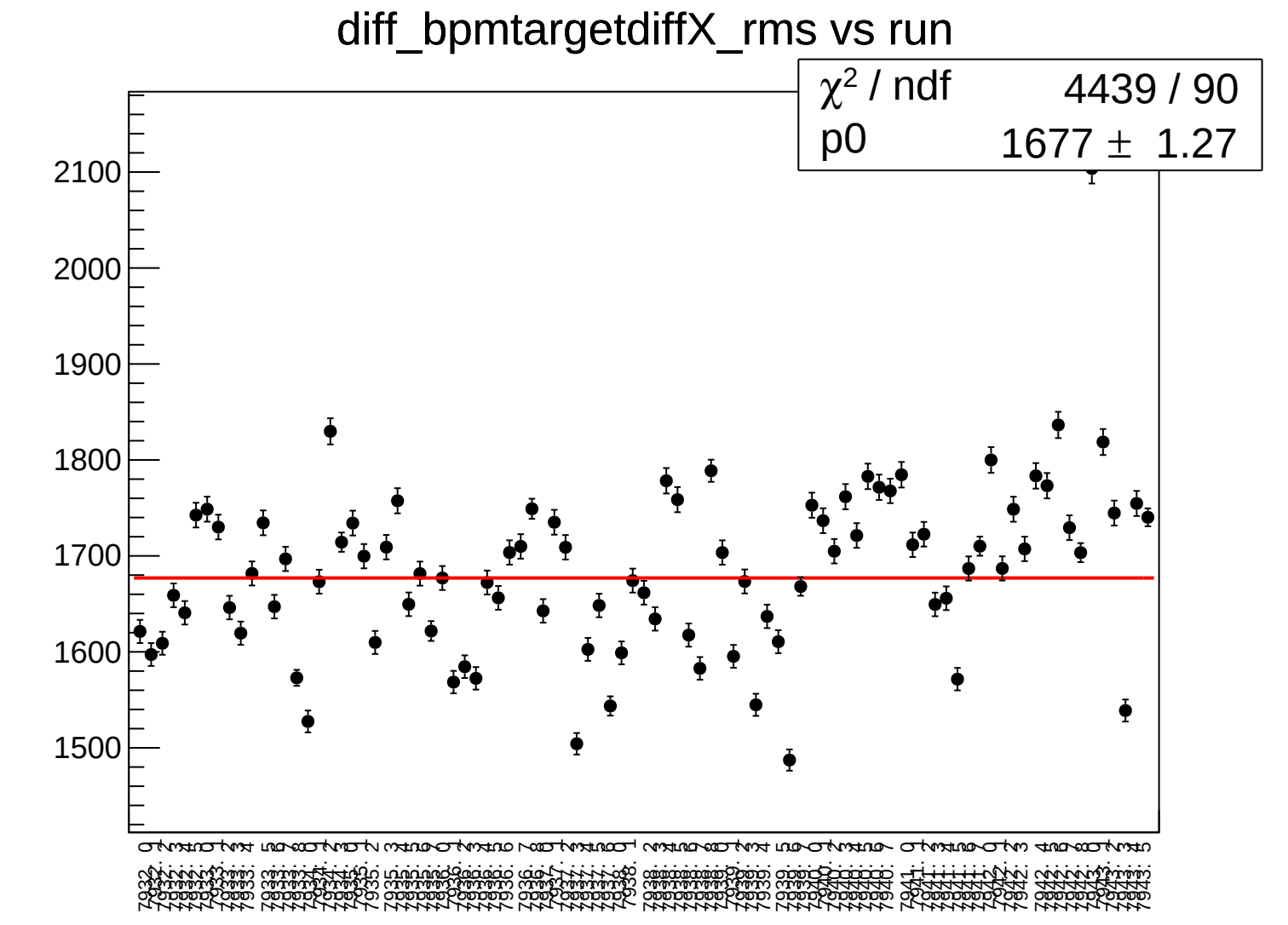

diff_bpmtargetsumX_mean vs run
χ² / ndf 113.3 / 90
p0 −12.46 ± 39.51
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −25.64
Std Dev 0
2
1
0
−1
−2

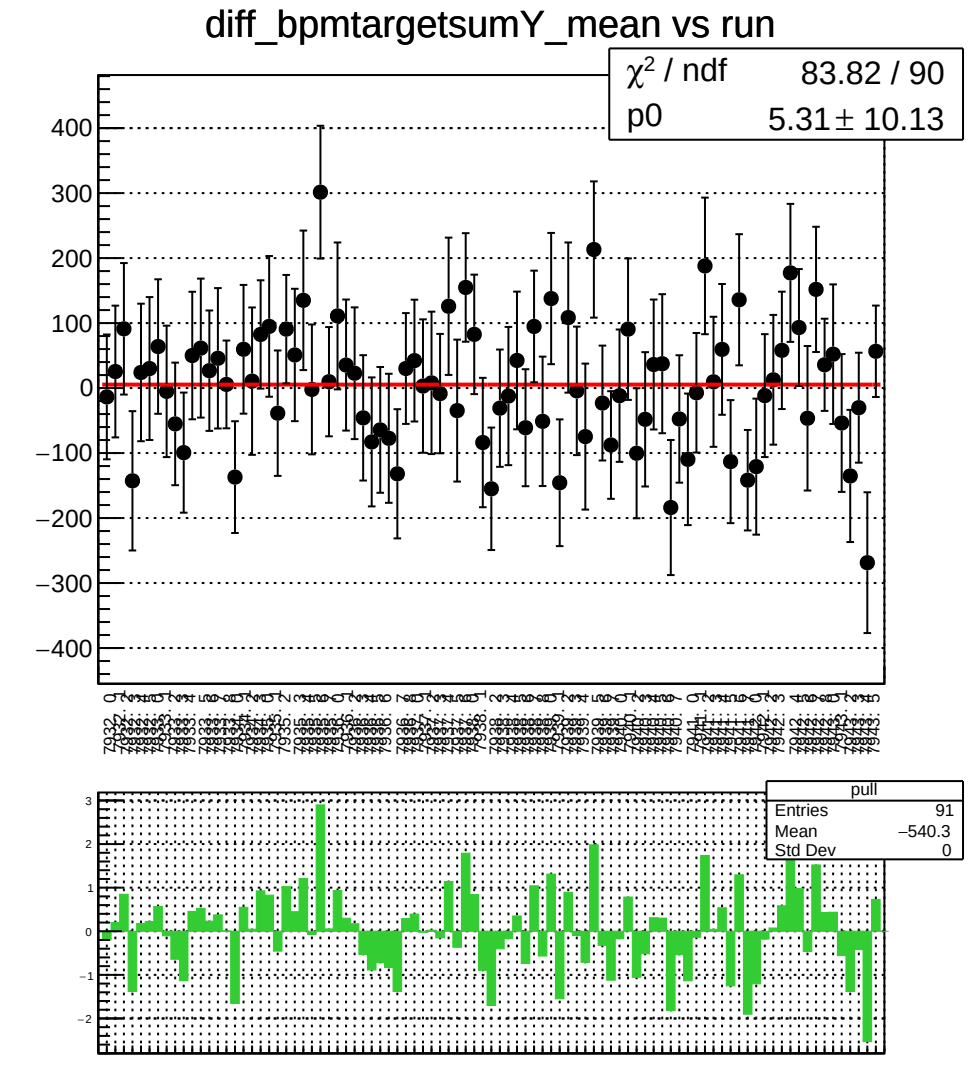

pull1D
Entries 91
Mean 0.01207
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

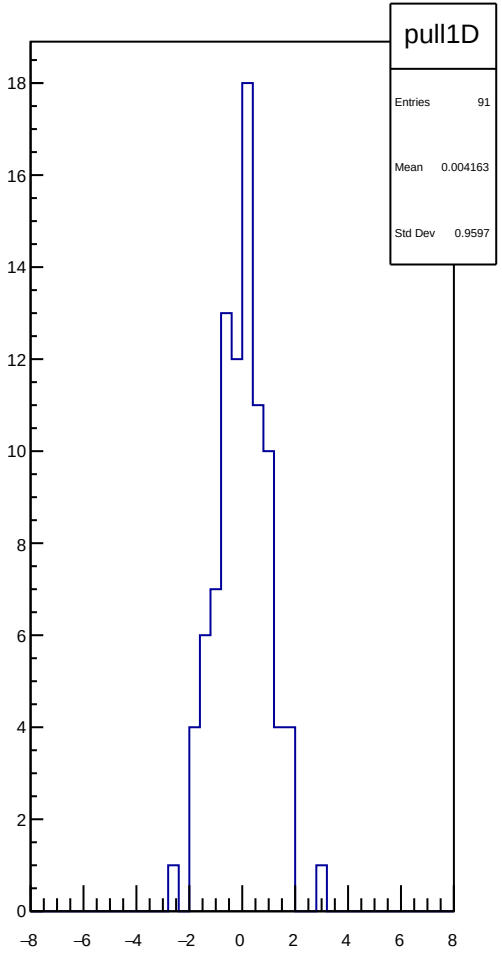

diff_bpmtargetsumX_rms vs run
χ² / ndf 2811 / 90
p0 3.691e+04 ± 27.94
42000
41000
40000
39000
38000
37000
36000
35000
34000
33000

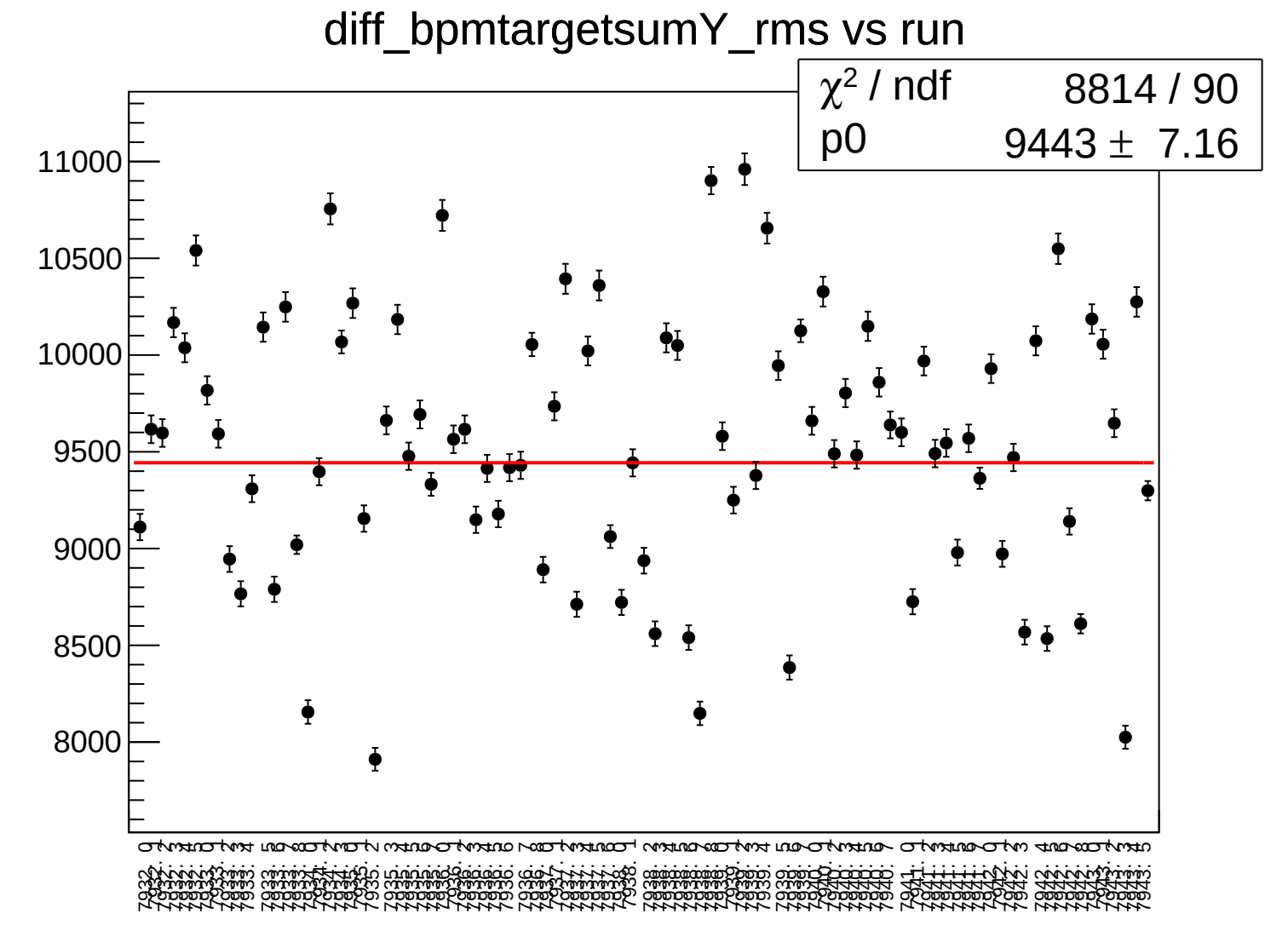

diff_bpmtargetdiffX_mean vs run
χ² / ndf 107.8 / 90
p0 0.4532 ± 1.796
pull
Entries 91
Mean −59.75
Std Dev 0

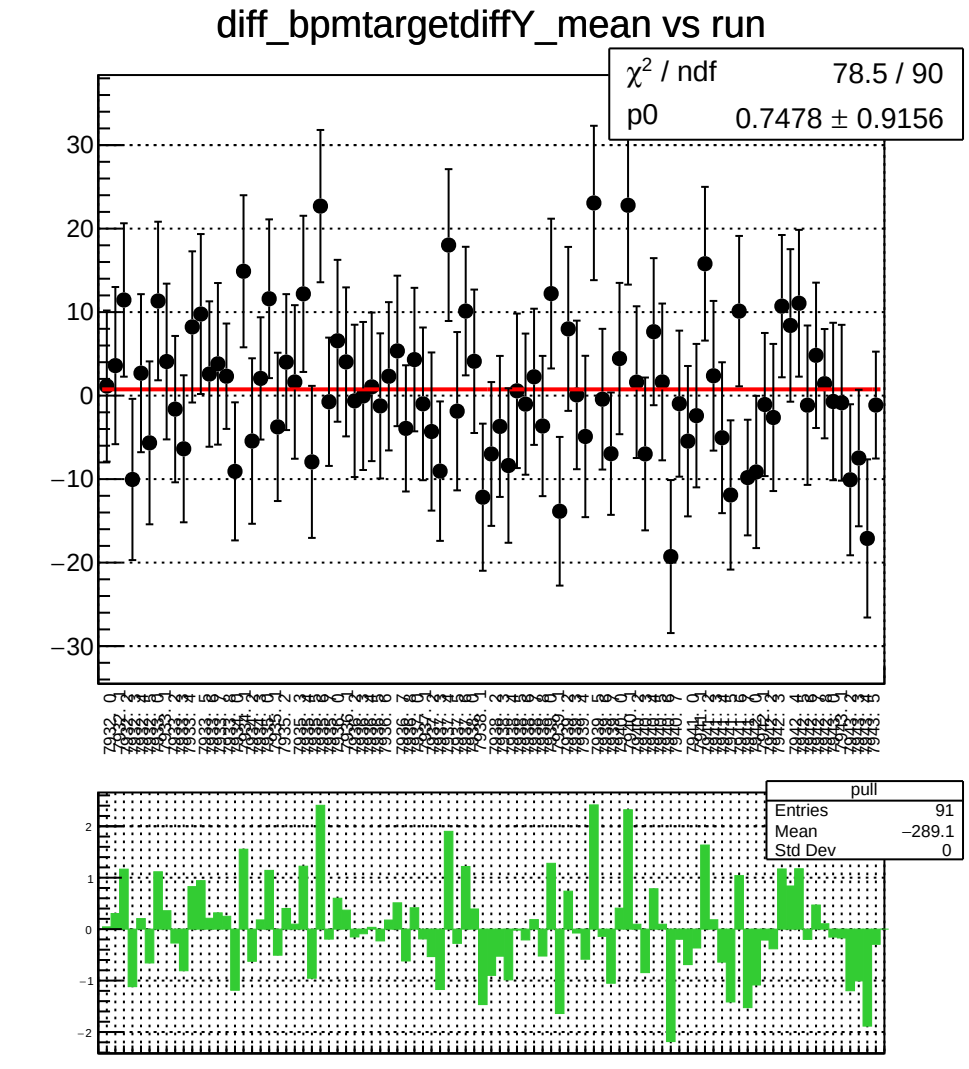

pull1D
Entries 91
Mean −0.00489
Std Dev 1.088

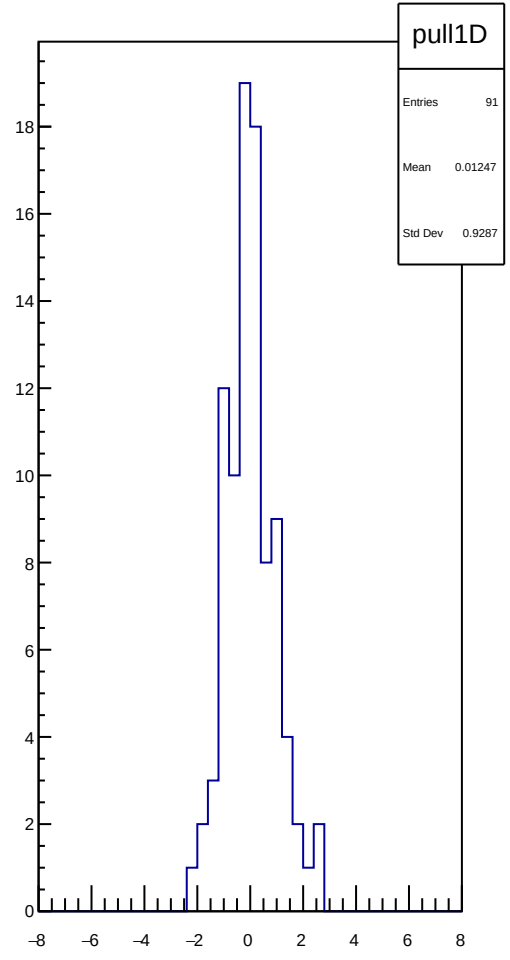

diff_bpmtargetdiffX_rms vs run
χ² / ndf 4439 / 90
p0 1677 ± 1.27
2100
2000
1900
1800
1700
1600
1500

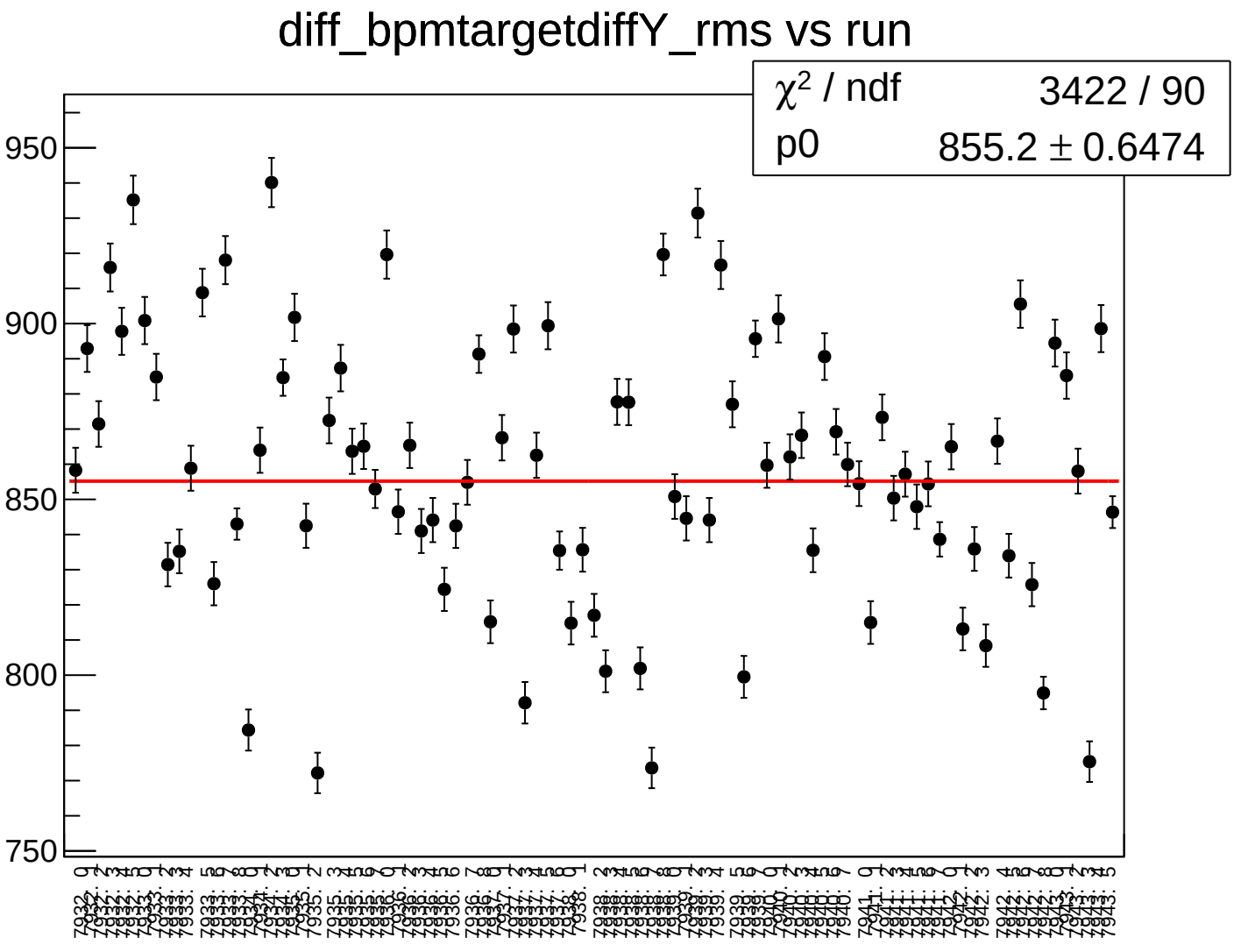

diff_bpmtargetsumY_mean vs run
χ² / ndf 83.82 / 90
p0 5.31 ± 10.13
pull
Entries 91
Mean −540.3
Std Dev 0

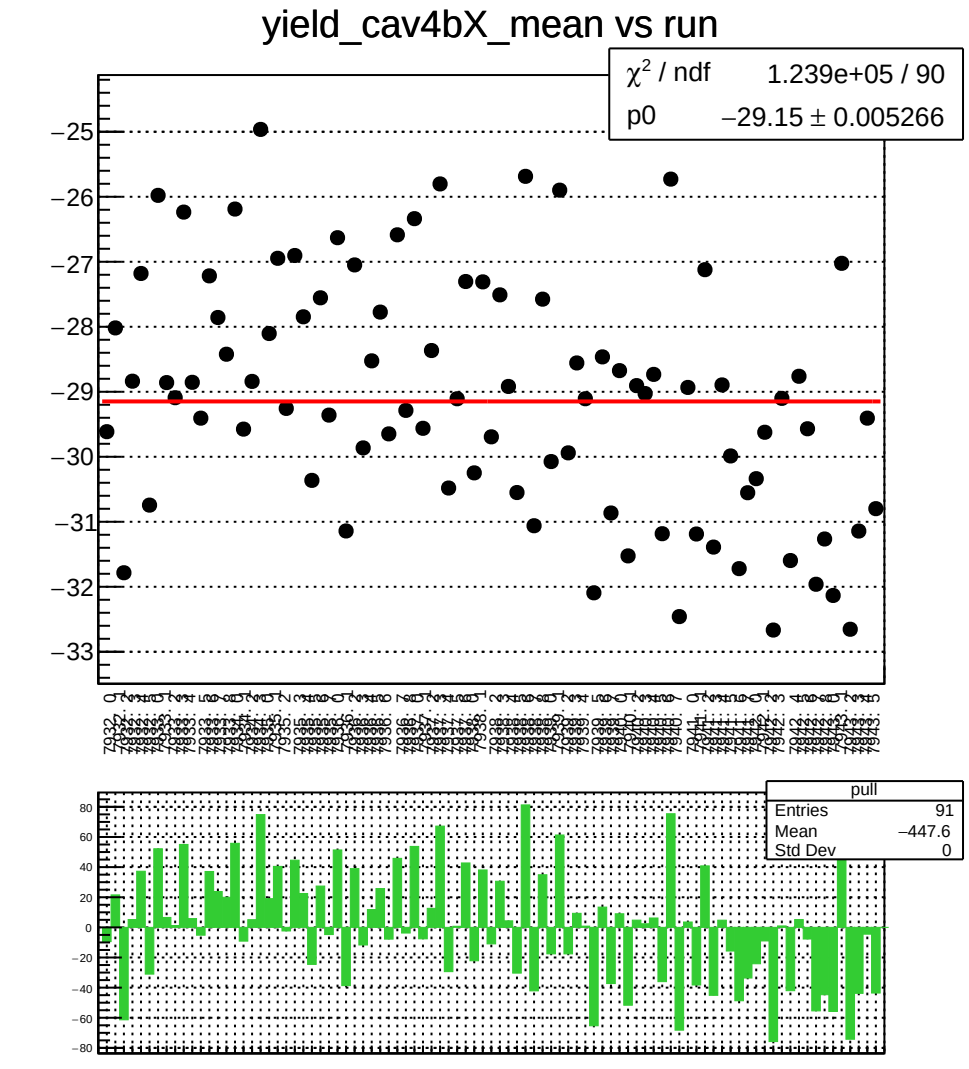

pull1D
Entries 91
Mean 0.004163
Std Dev 0.9597

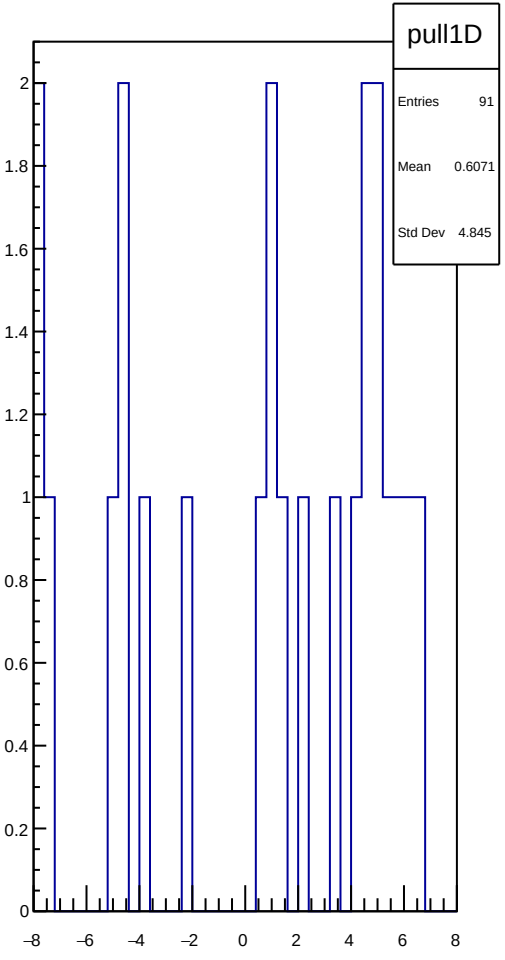

diff_bpmtargetsumY_rms vs run
χ² / ndf 8814 / 90
p0 9443 ± 7.16
11000
10500
10000
9500
9000
8500
8000

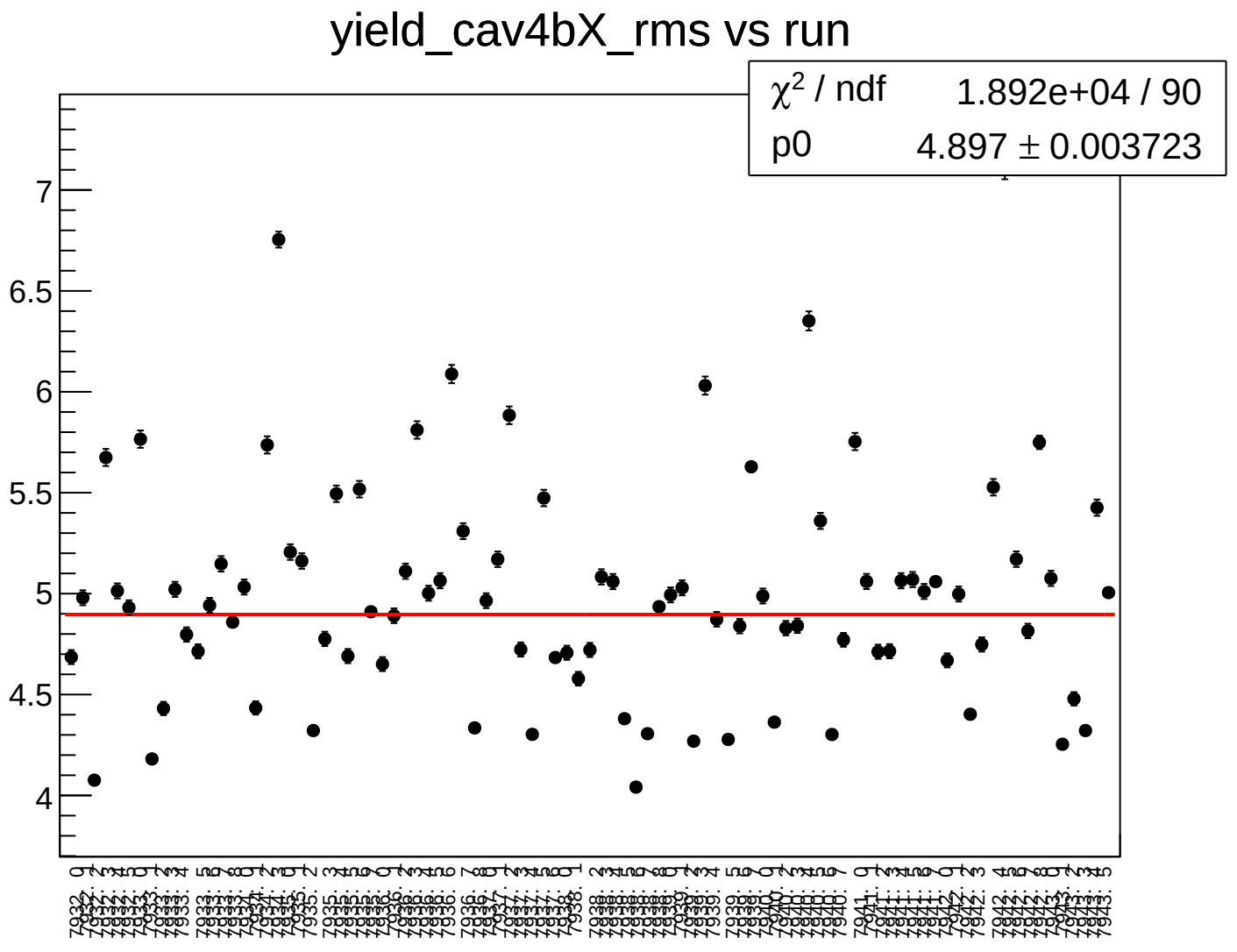

diff_bpmtargetdiffY_mean vs run
χ² / ndf 78.5 / 90
p0 0.7478 ± 0.9156
pull
Entries 91
Mean −289.1
Std Dev 0

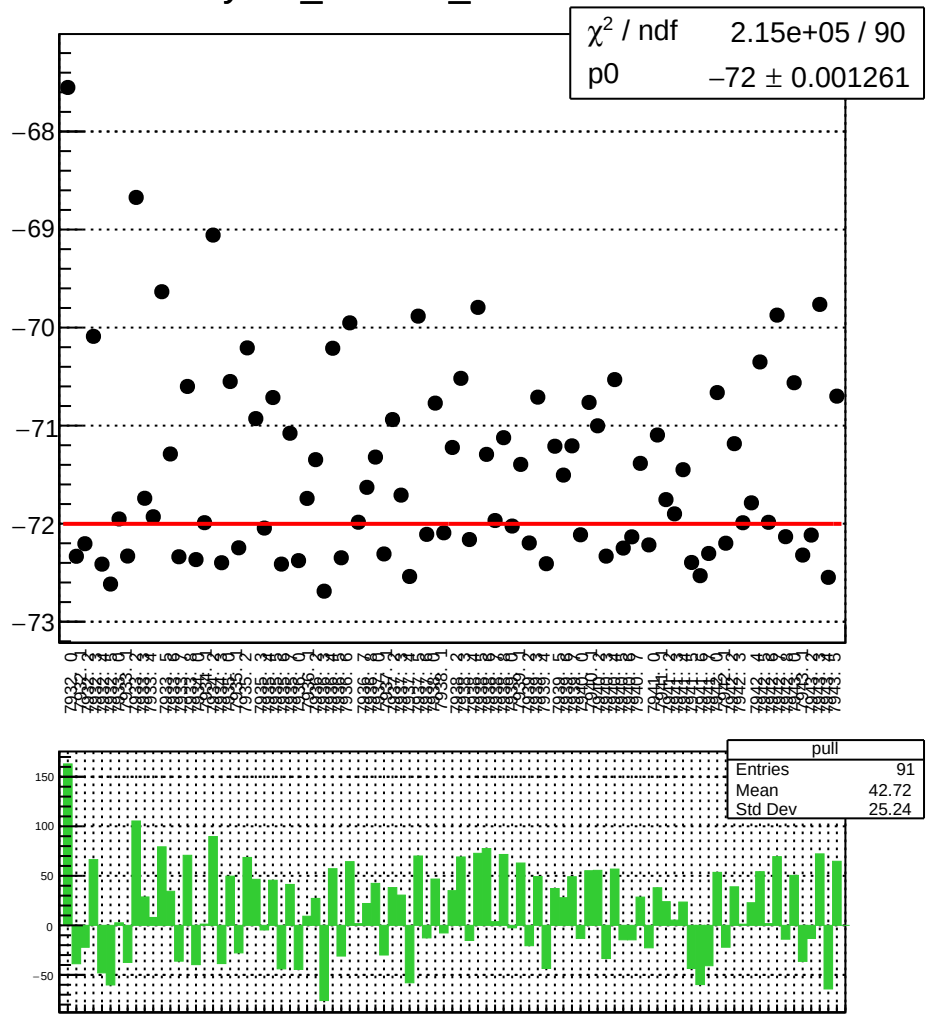

pull1D
Entries 91
Mean 0.01247
Std Dev 0.9287

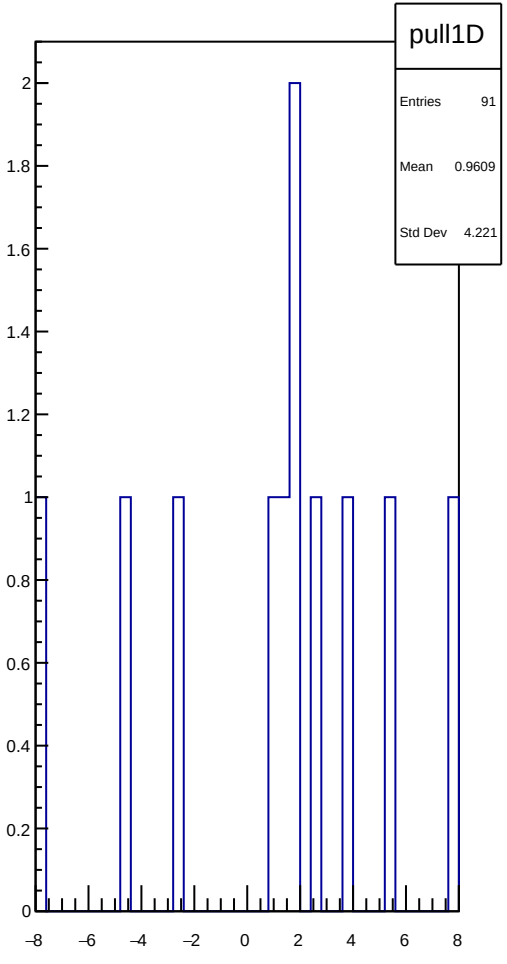

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3422 / 90
p0 855.2 ± 0.6474
950
900
850
800
750

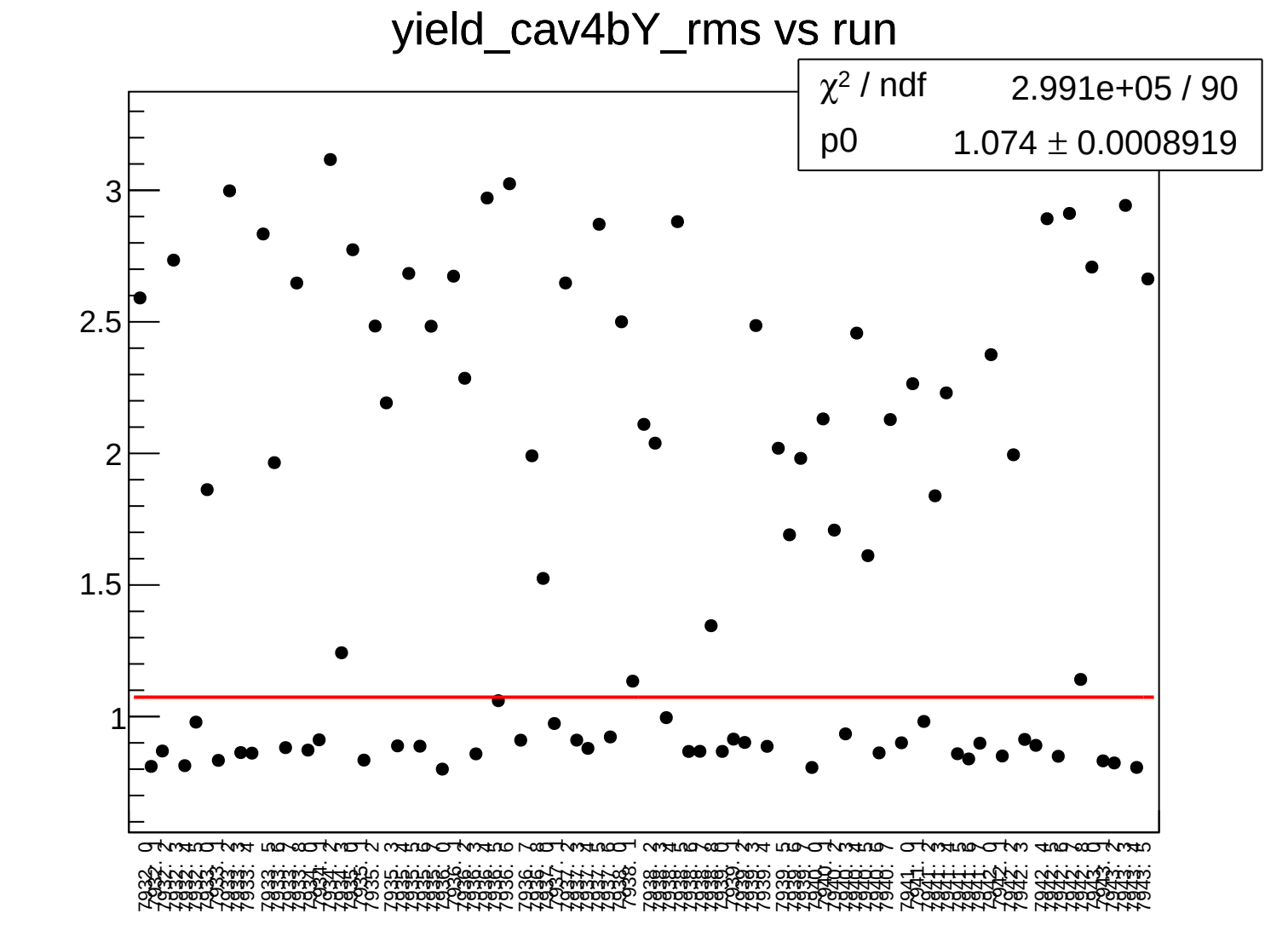

yield_cav4bX_mean vs run
χ² / ndf 1.239e+05 / 90
p0 −29.15 ± 0.005266
pull
Entries 91
Mean −447.6
Std Dev 0

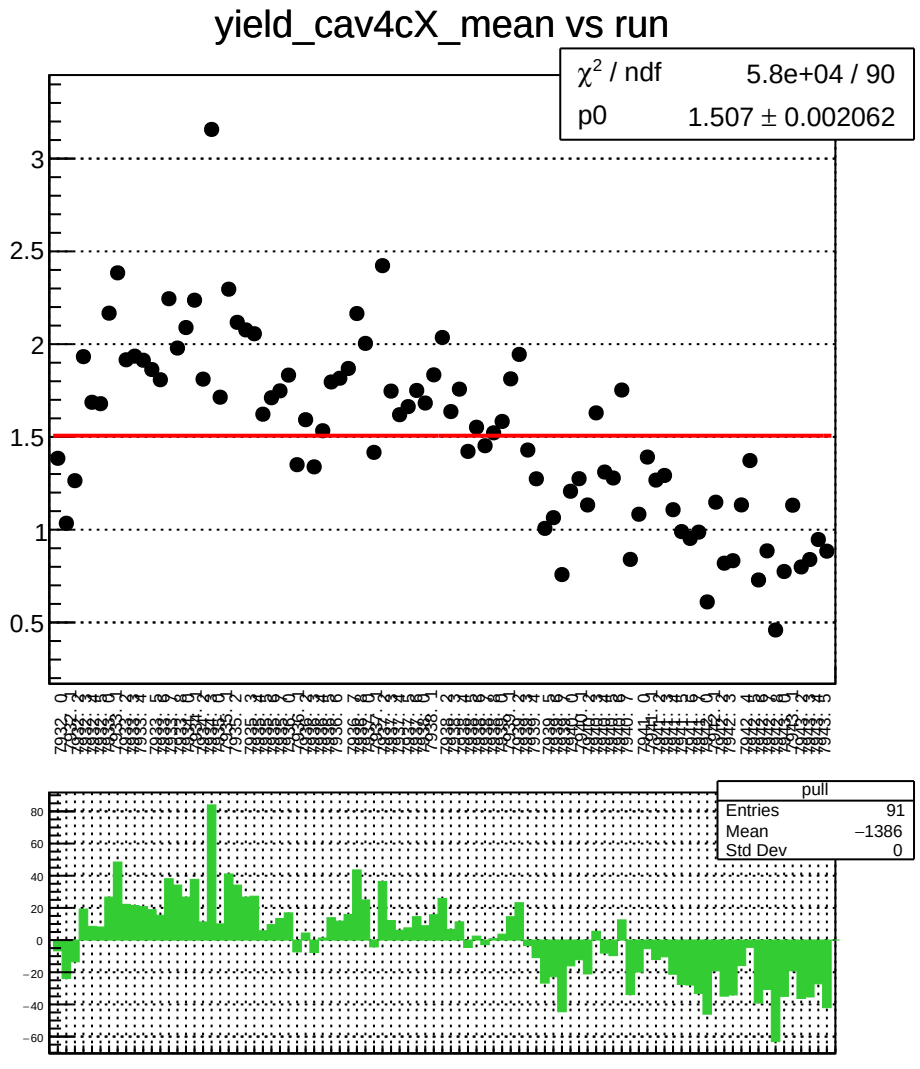

pull1D
Entries 91
Mean 0.6071
Std Dev 4.845

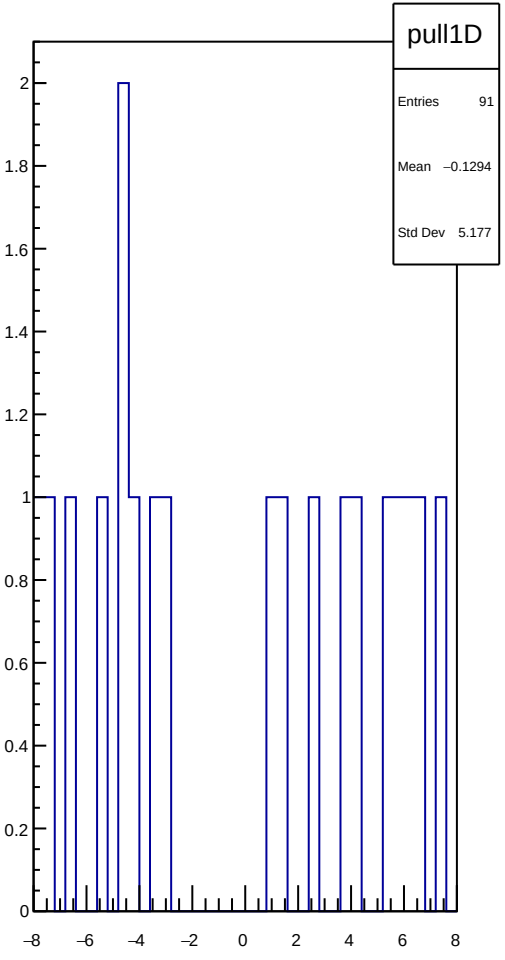

yield_cav4bX_rms vs run
χ^2 / ndf 1.892e+04 / 90
p0 4.897 ± 0.003723
7
6.5
6
5.5
5
4.5
4

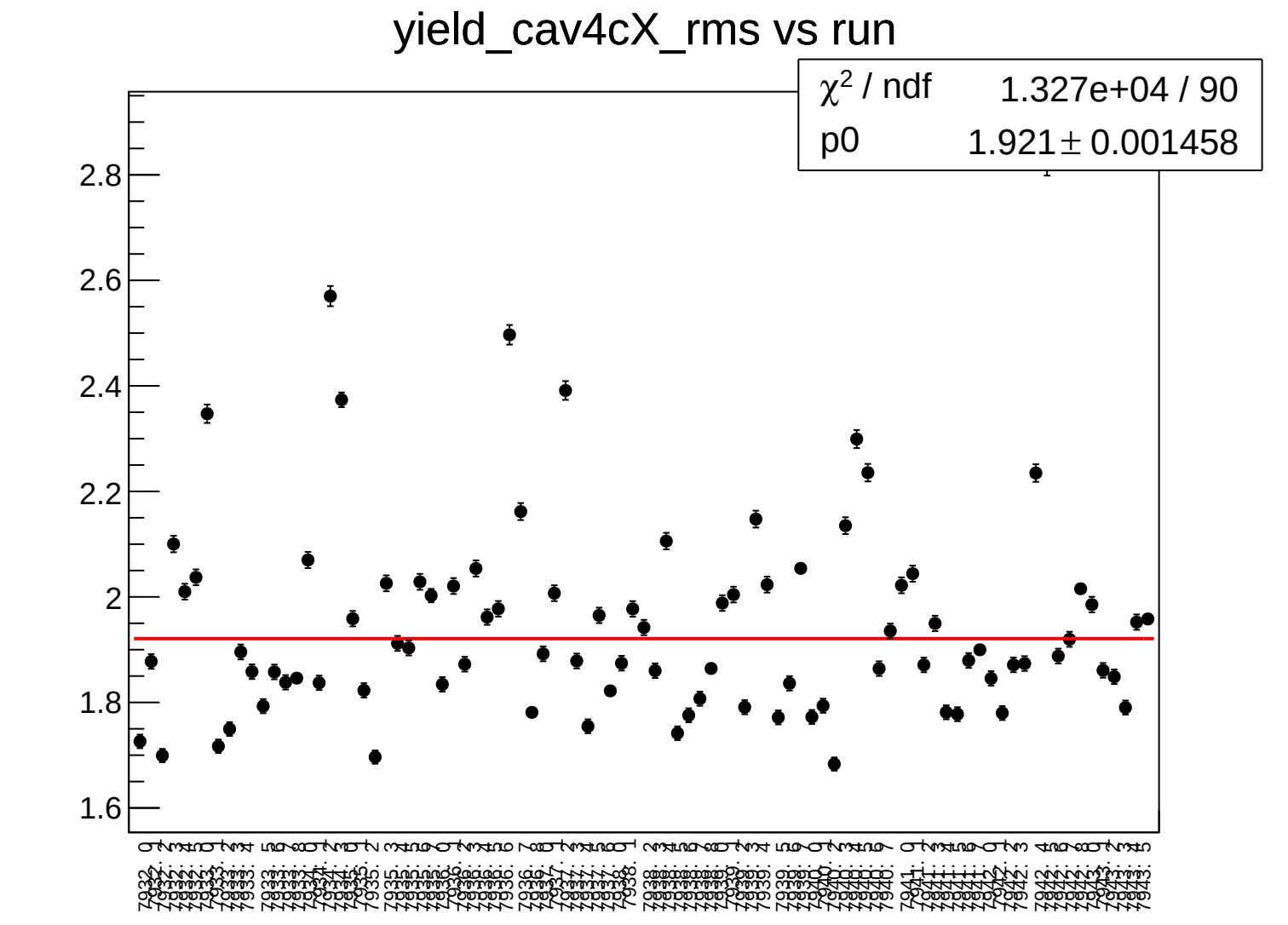

yield_cav4bY_mean vs run
χ² / ndf 2.15e+05 / 90
p0 −72 ± 0.001261
−68
−69
−70
−71
−72
−73
pull
Entries 91
Mean 42.72
Std Dev 25.24
150
100
50
0
−50

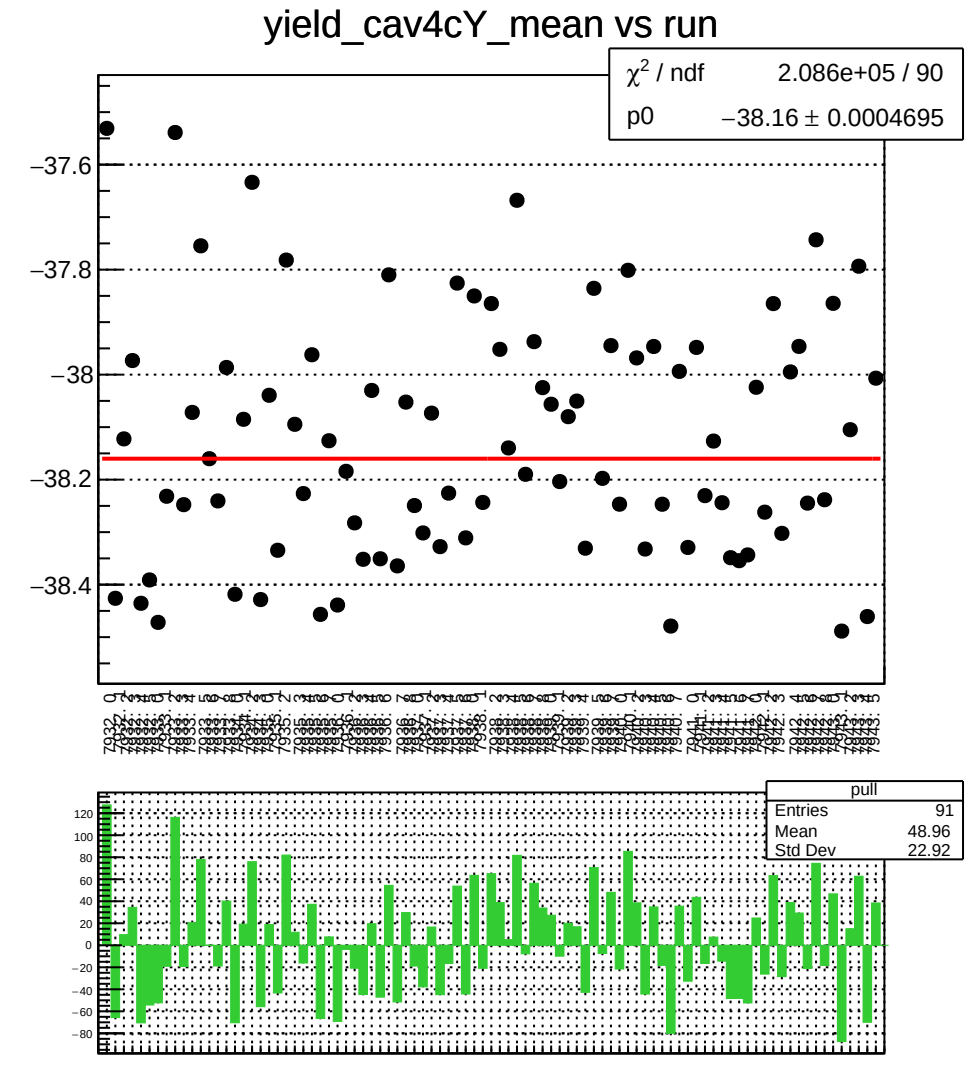

pull1D
Entries 91
Mean 0.9609
Std Dev 4.221
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

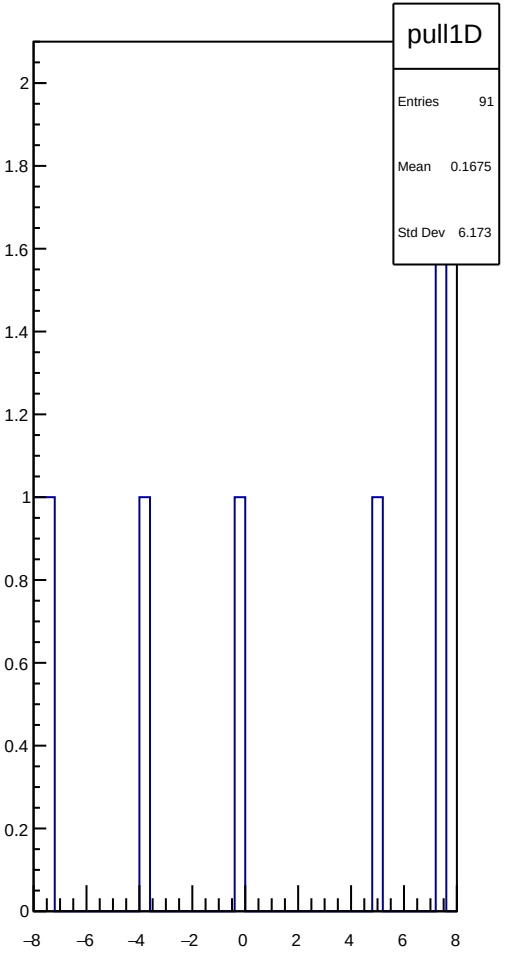

yield_cav4bY_rms vs run
χ² / ndf 2.991e+05 / 90
p0 1.074 ± 0.0008919
3
2.5
2
1.5
1

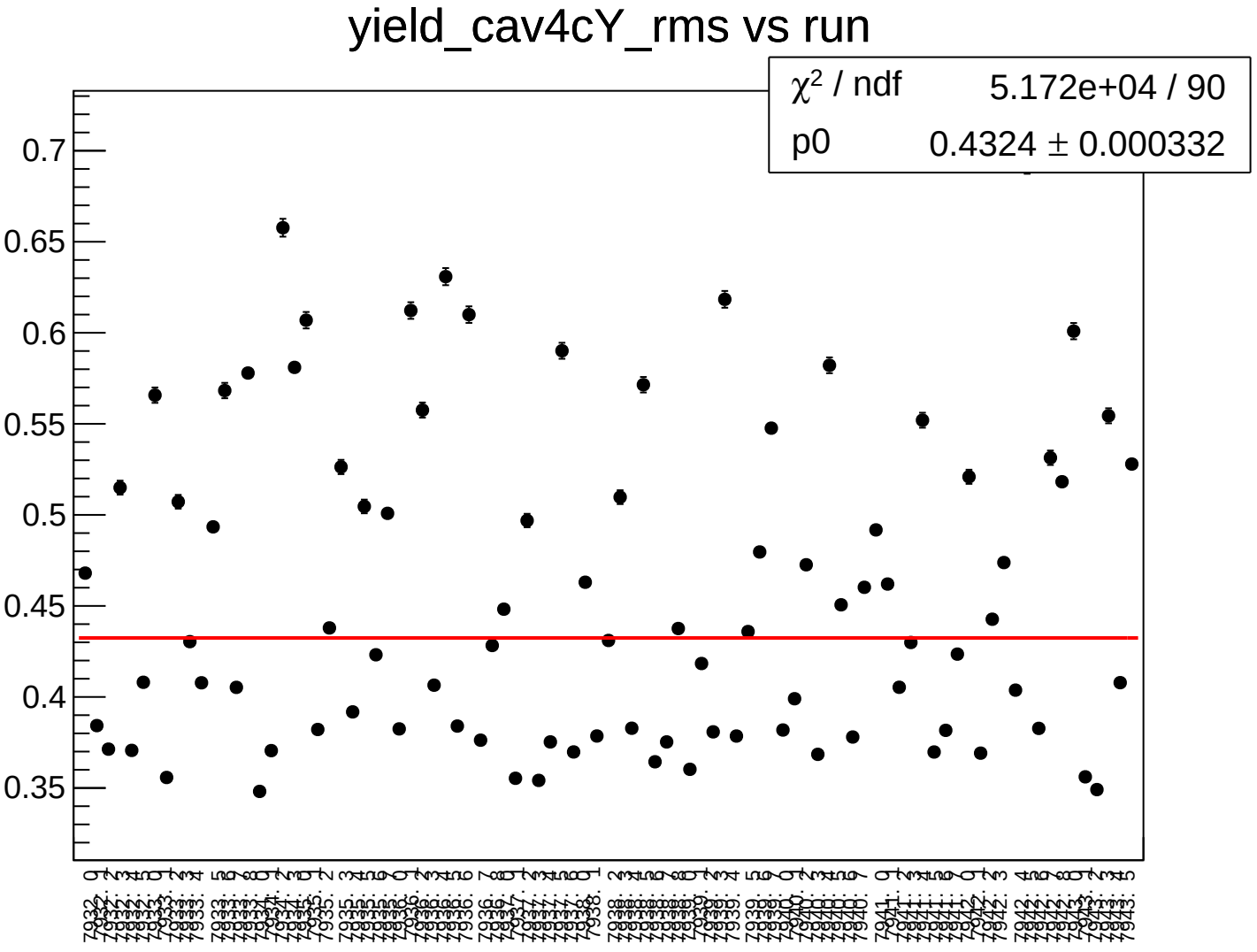

yield_cav4cX_mean vs run
χ² / ndf 5.8e+04 / 90
p0 1.507 ± 0.002062
pull
Entries 91
Mean −1386
Std Dev 0

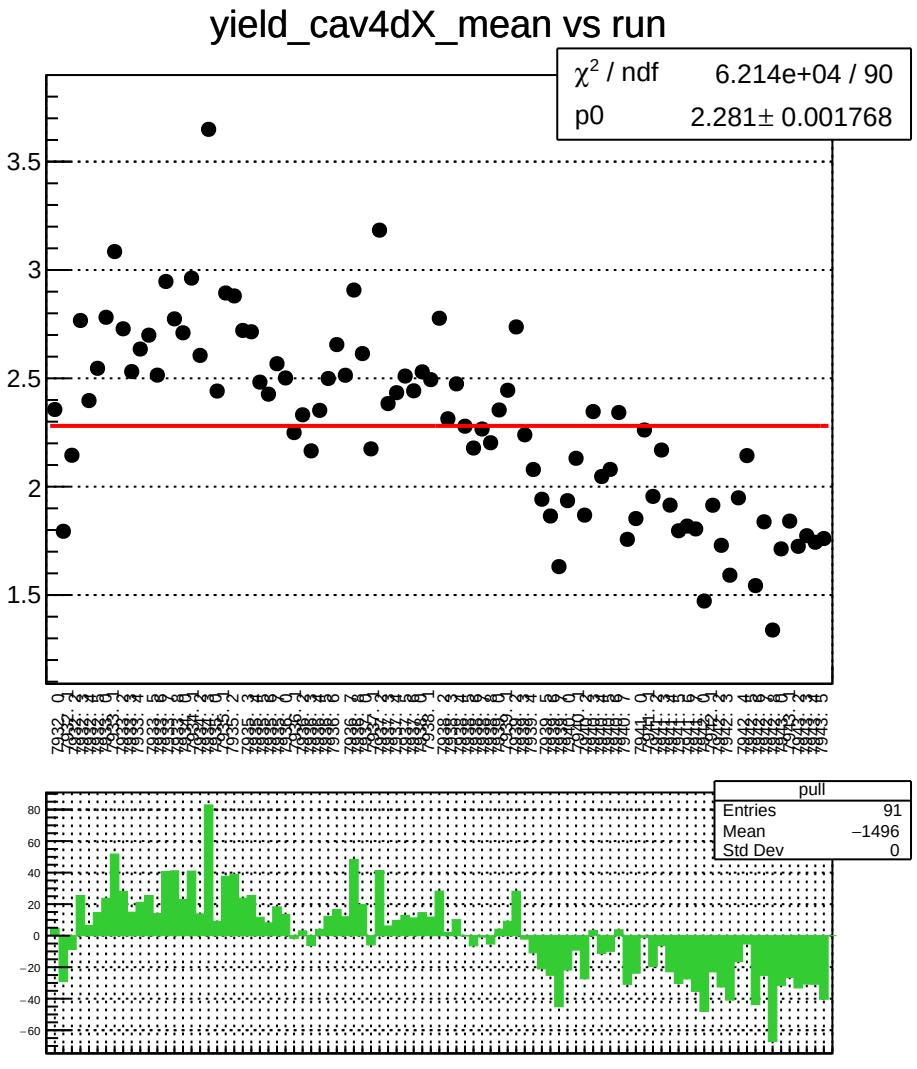

pull1D
Entries 91
Mean −0.1294
Std Dev 5.177

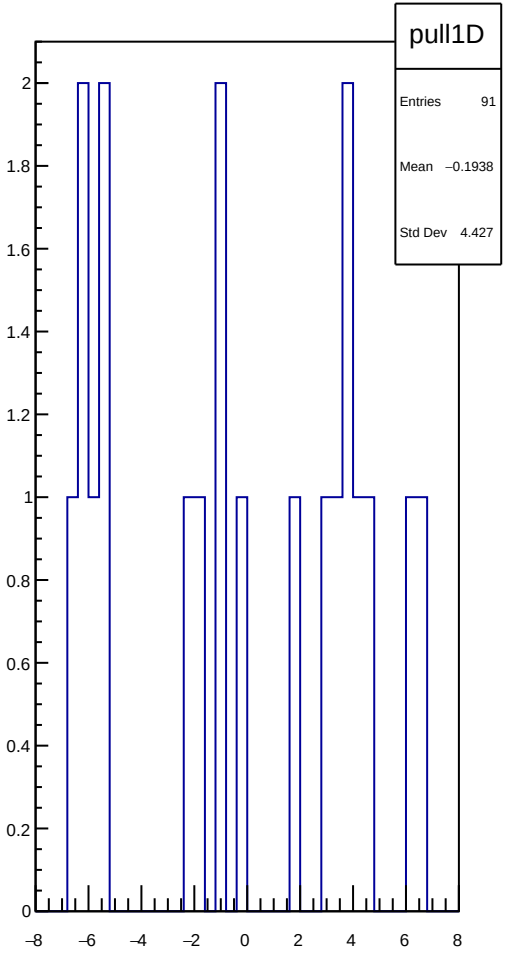

yield_cav4cX_rms vs run
χ^2 / ndf 1.327e+04 / 90
p0 1.921 ± 0.001458
2.8
2.6
2.4
2.2
2
1.8
1.6

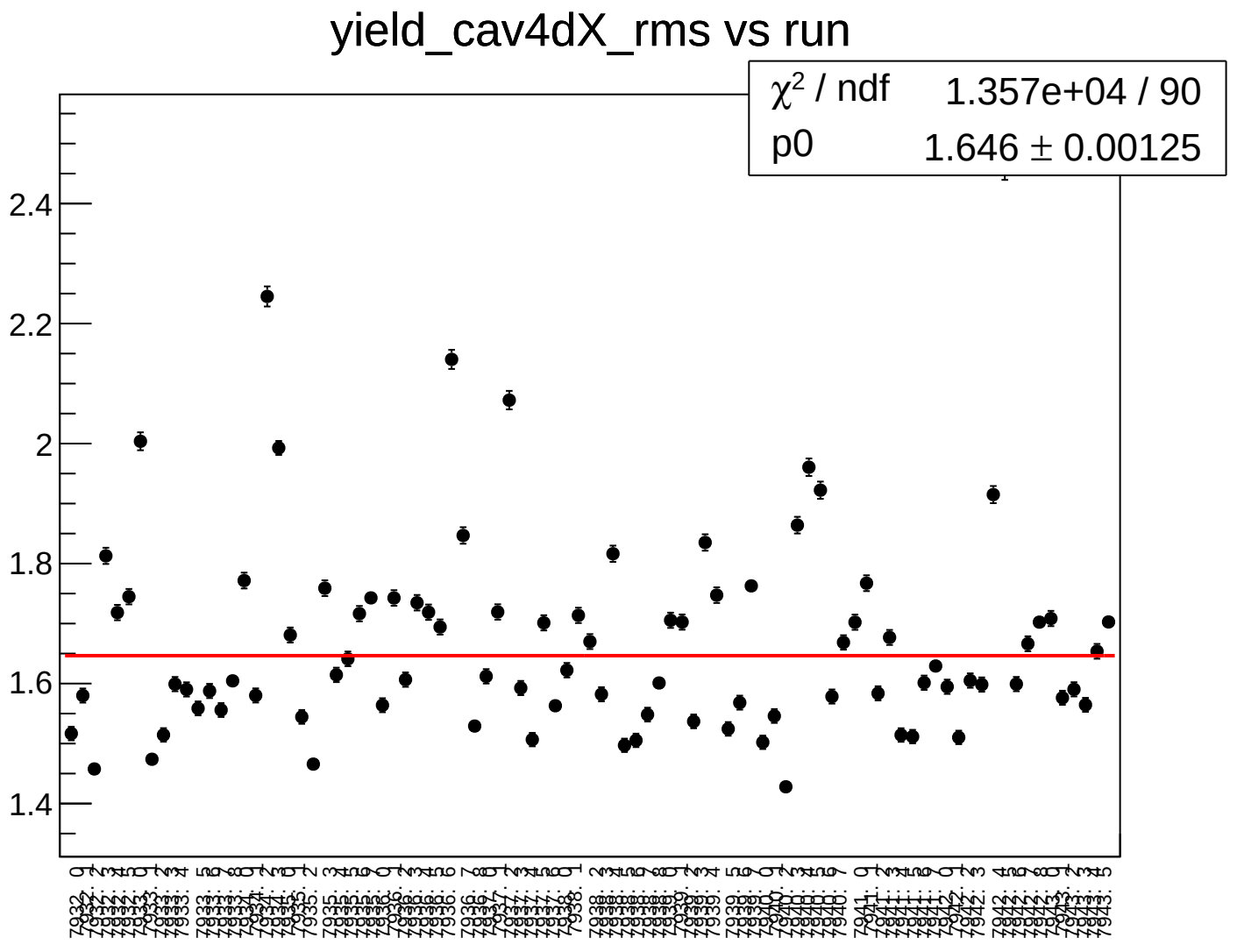

yield_cav4cY_mean vs run
χ² / ndf 2.086e+05 / 90
p0 −38.16 ± 0.0004695
−37.6
−37.8
−38
−38.2
−38.4
pull
Entries 91
Mean 48.96
Std Dev 22.92
120
100
80
60
40
20
0
−20
−40
−60
−80

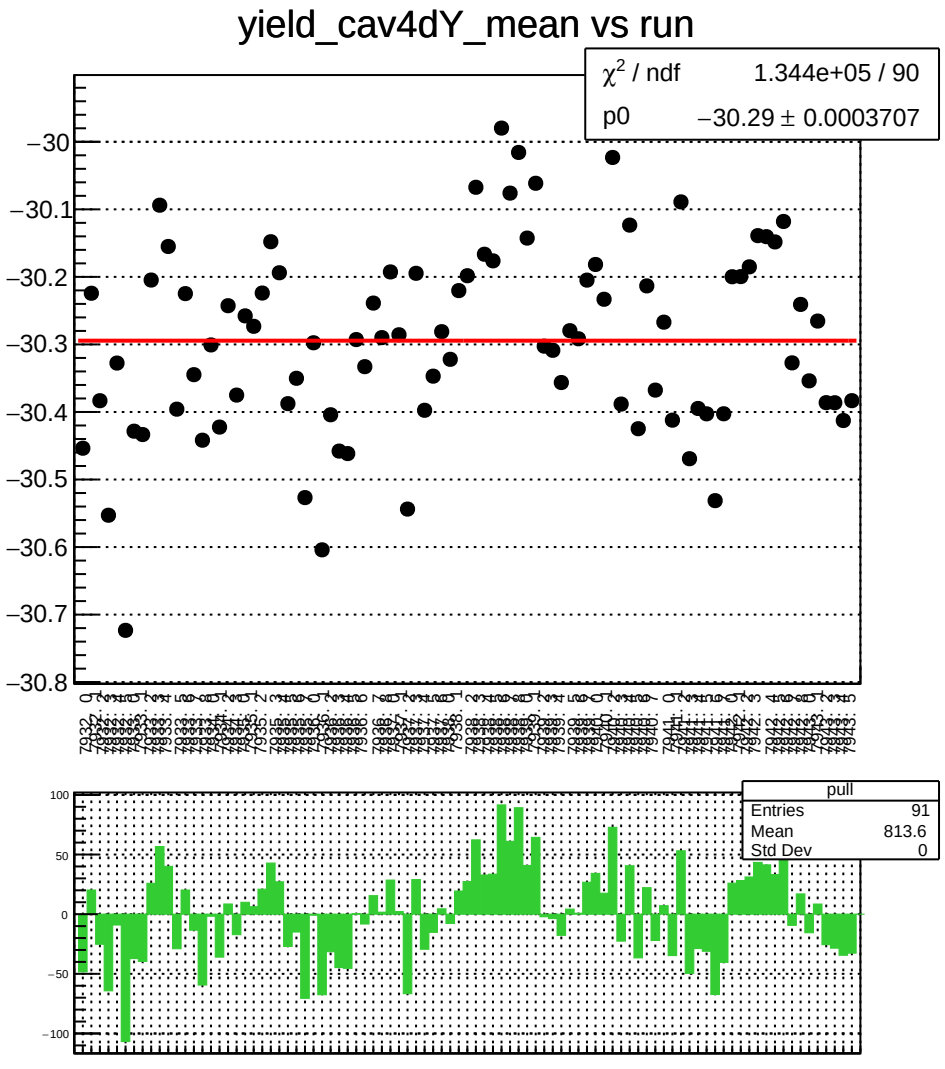

pull1D
Entries 91
Mean 0.1675
Std Dev 6.173
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

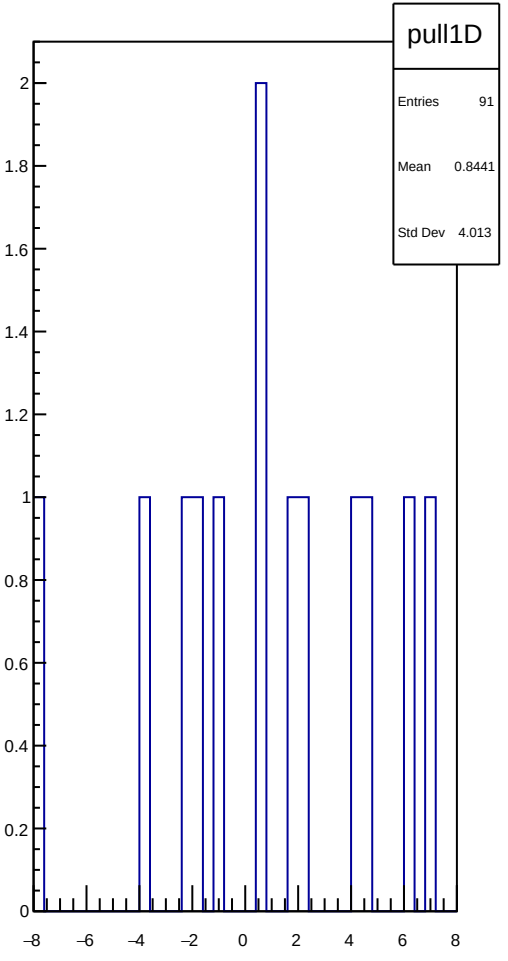

yield_cav4cY_rms vs run
χ² / ndf 5.172e+04 / 90
p0 0.4324 ± 0.000332
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

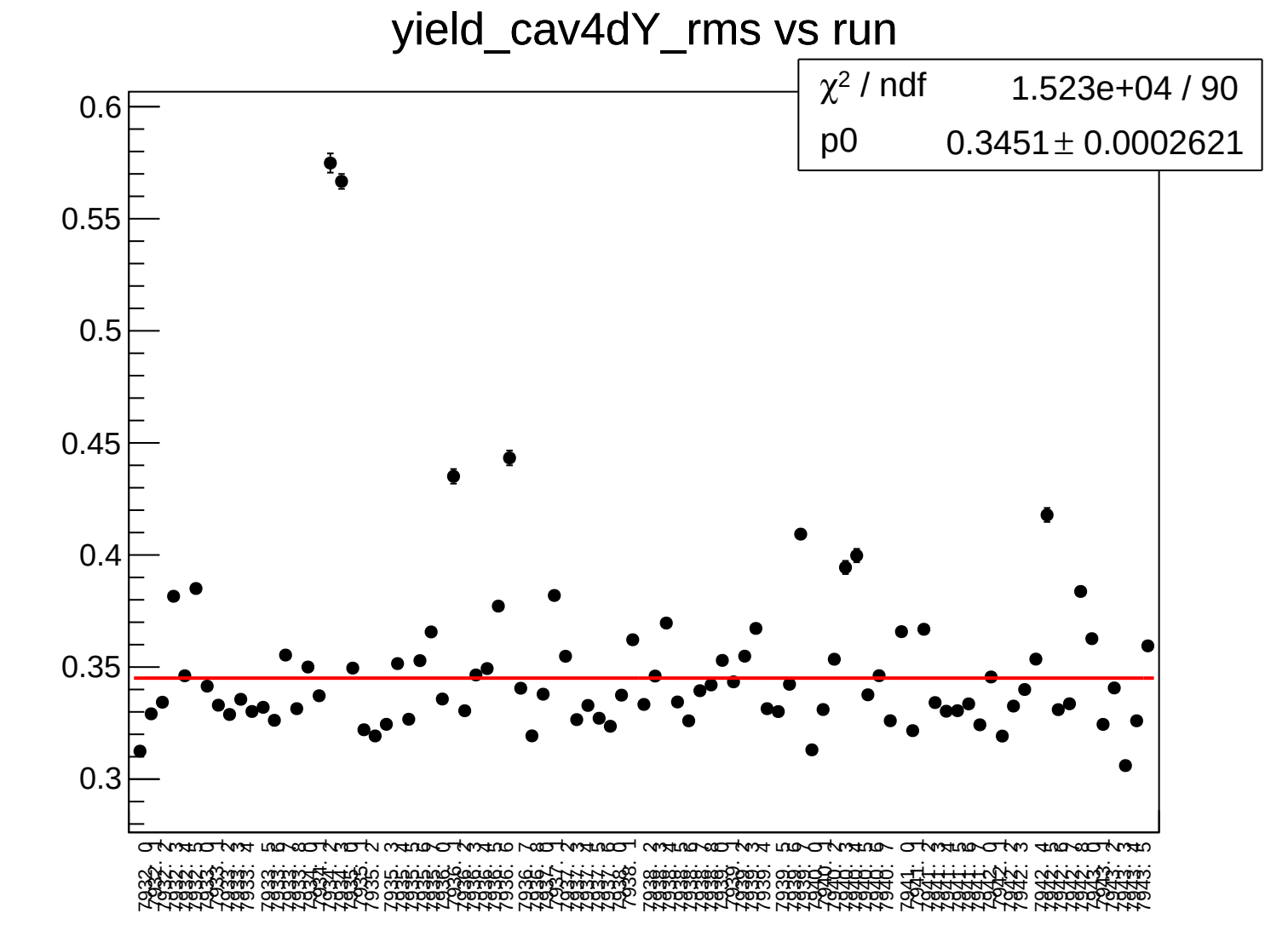

yield_cav4dX_mean vs run
χ² / ndf 6.214e+04 / 90
p0 2.281± 0.001768
3.5
3
2.5
2
1.5
pull
Entries 91
Mean −1496
Std Dev 0
80
60
40
20
0
−20
−40
−60

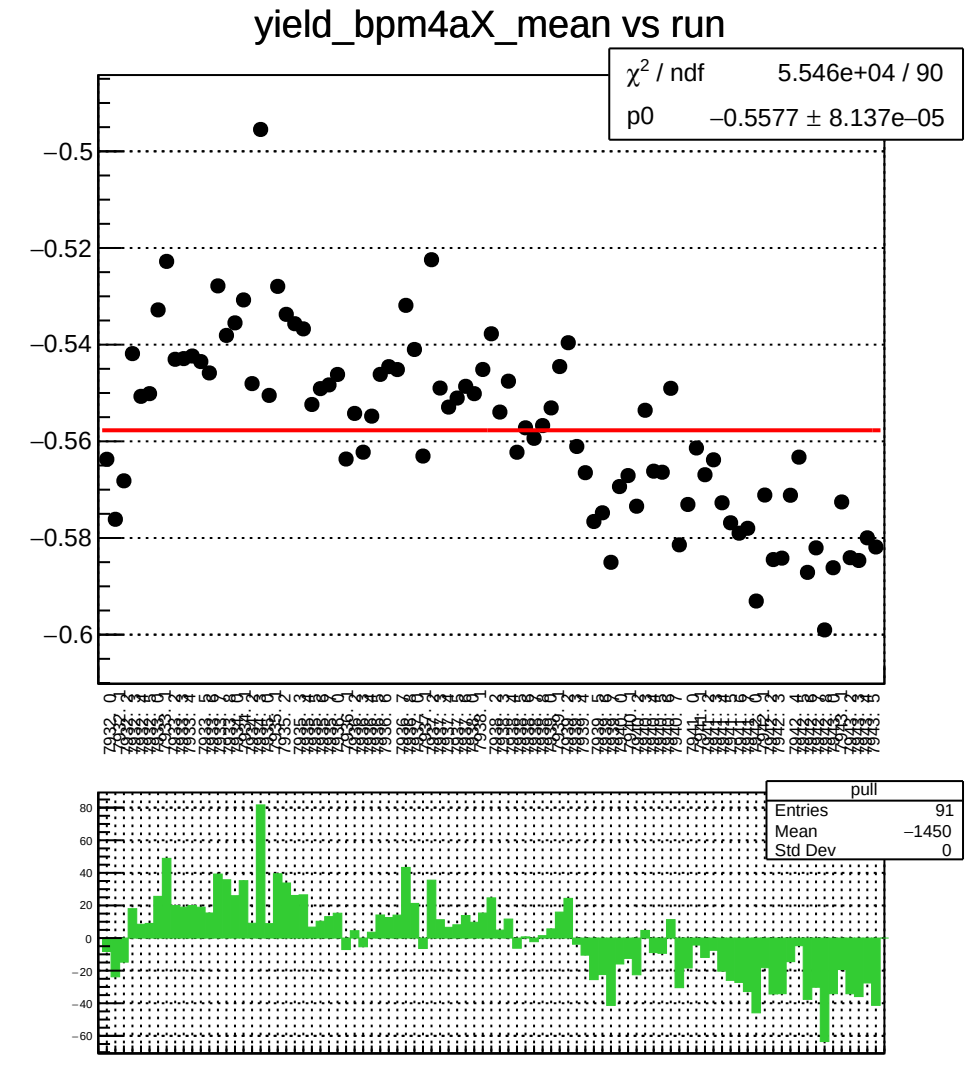

pull1D
Entries 91
Mean −0.1938
Std Dev 4.427
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

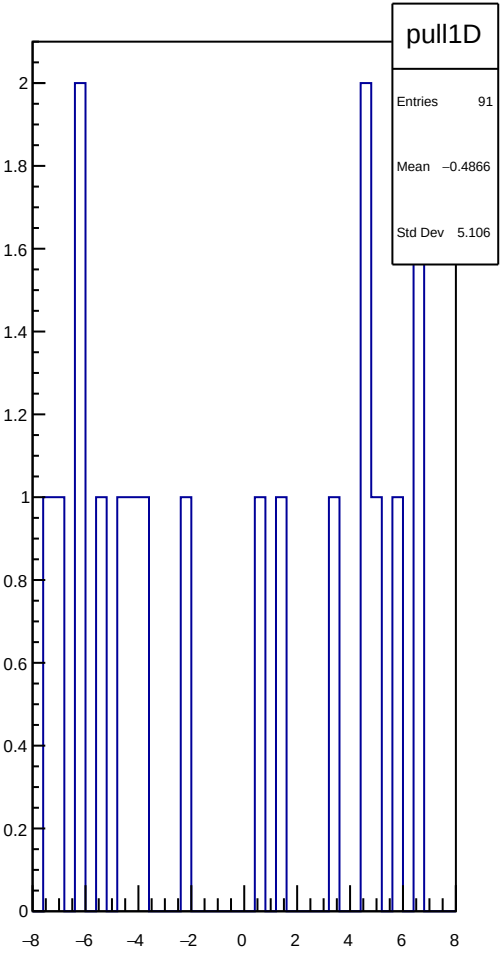

yield_cav4dX_rms vs run
χ² / ndf 1.357e+04 / 90
p0 1.646 ± 0.00125
2.4
2.2
2
1.8
1.6
1.4

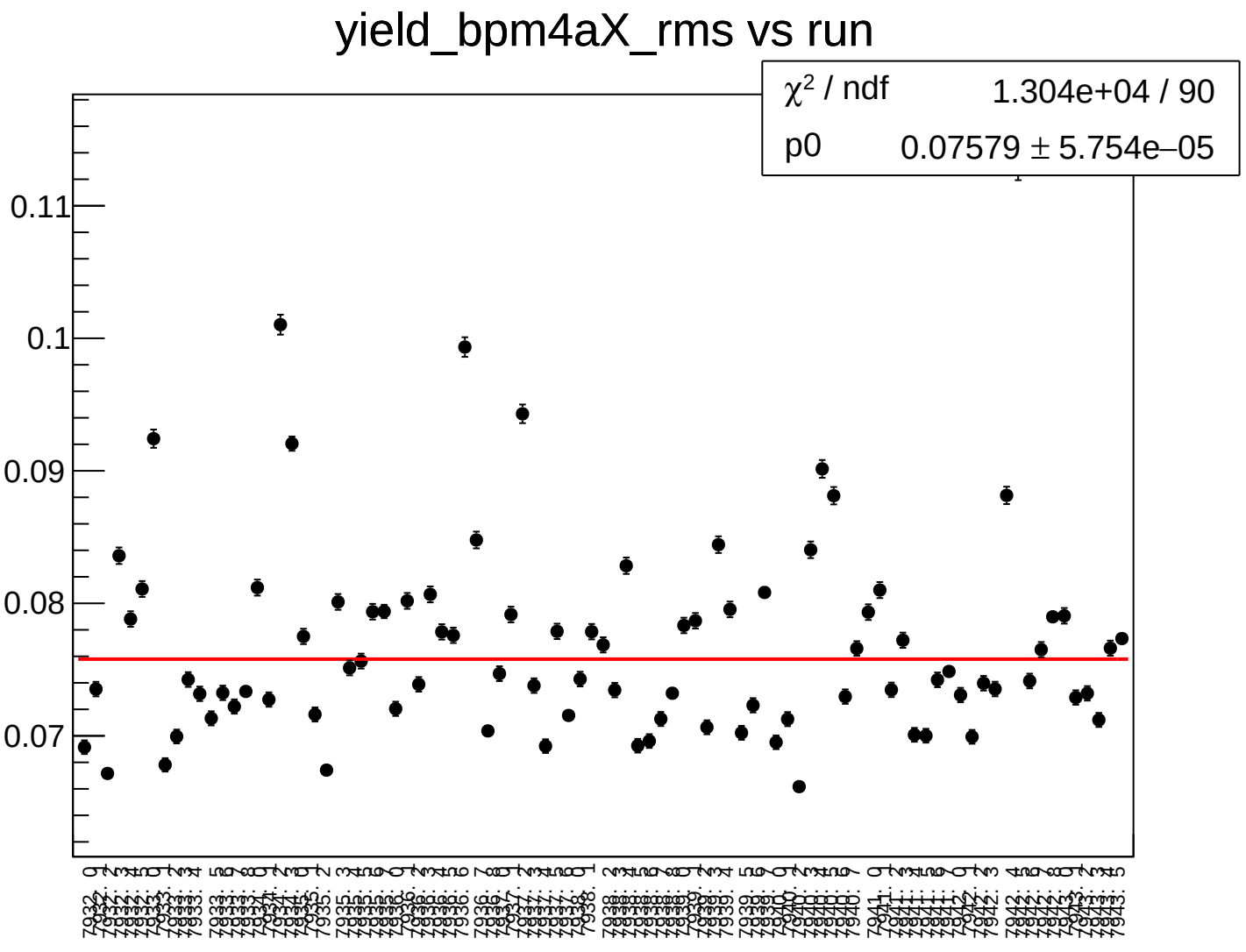

yield_cav4dY_mean vs run
χ² / ndf 1.344e+05 / 90
p0 −30.29 ± 0.0003707
−30
−30.1
−30.2
−30.3
−30.4
−30.5
−30.6
−30.7
−30.8
pull
Entries 91
Mean 813.6
Std Dev 0
100
50
0
−50
−100

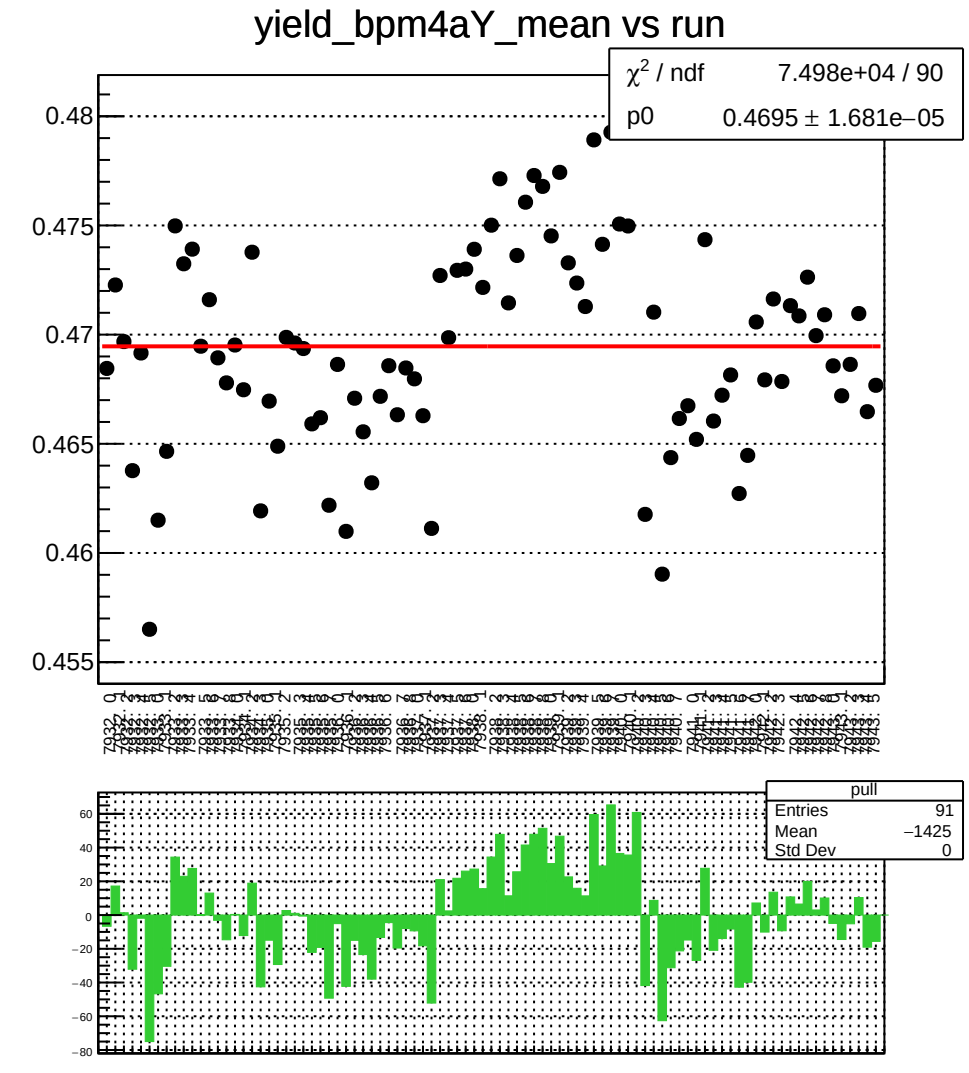

pull1D
Entries 91
Mean 0.8441
Std Dev 4.013
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

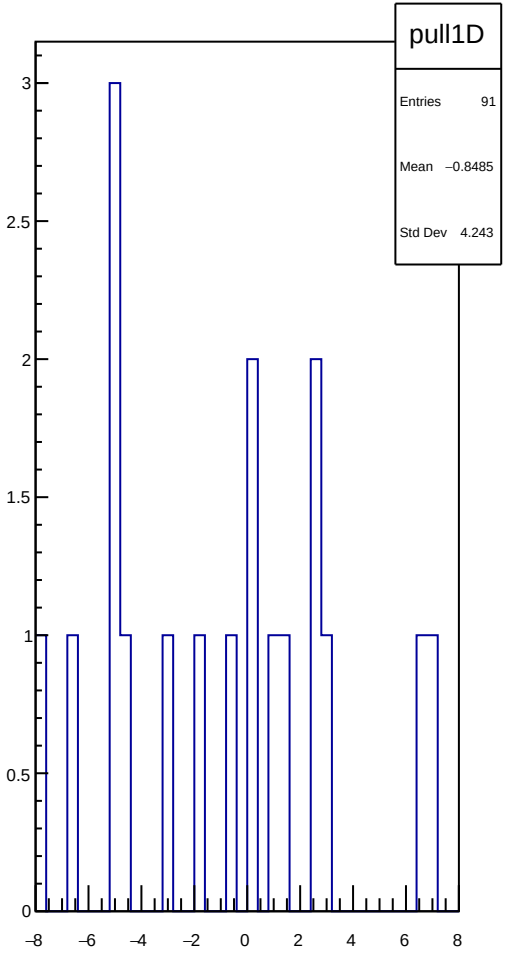

yield_cav4dY_rms vs run
χ² / ndf 1.523e+04 / 90
p0 0.3451 ± 0.0002621
0.6
0.55
0.5
0.45
0.4
0.35
0.3

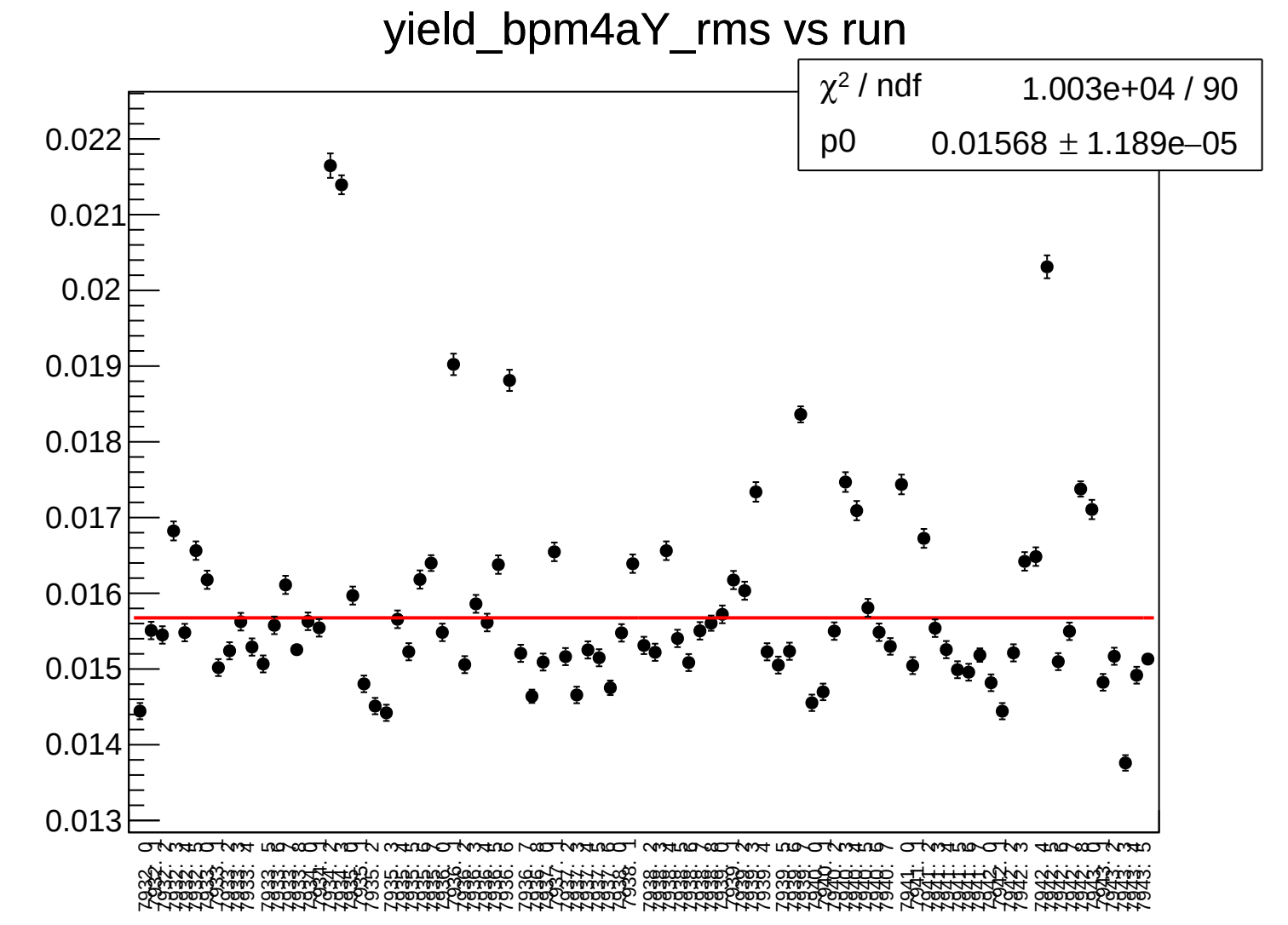

yield_bpm4aX_mean vs run
χ² / ndf 5.546e+04 / 90
p0 −0.5577 ± 8.137e−05
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
pull
Entries 91
Mean −1450
Std Dev 0
80
60
40
20
0
−20
−40
−60

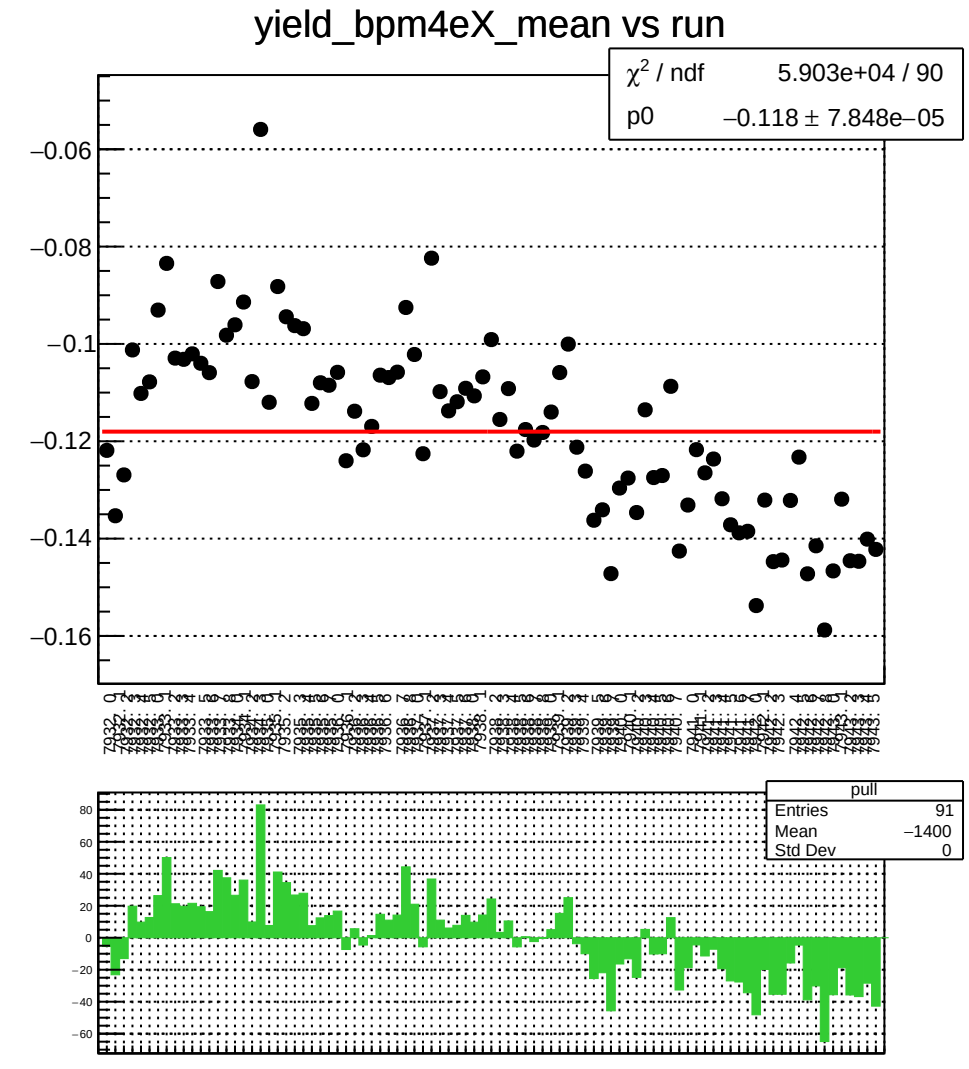

pull1D
Entries 91
Mean −0.4866
Std Dev 5.106
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

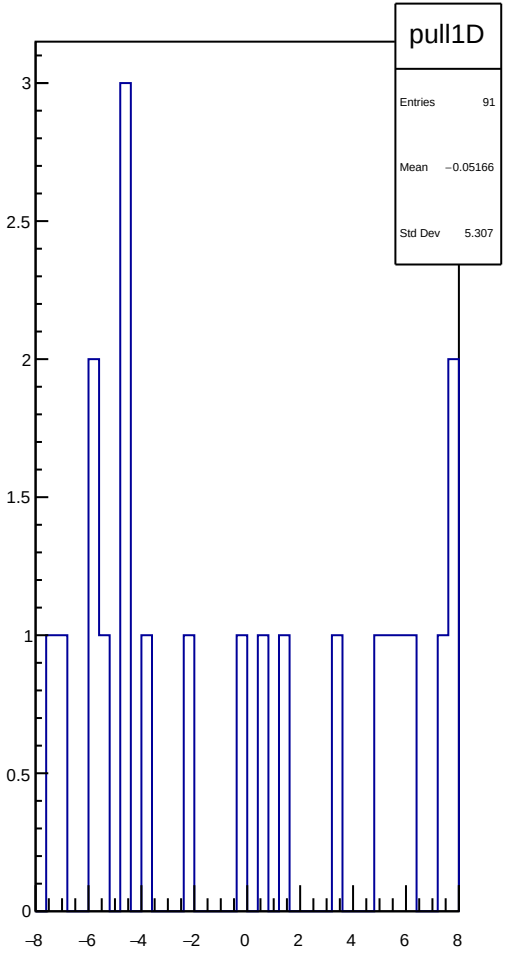

yield_bpm4aX_rms vs run
χ² / ndf 1.304e+04 / 90
p0 0.07579 ± 5.754e−05
0.11
0.1
0.09
0.08
0.07

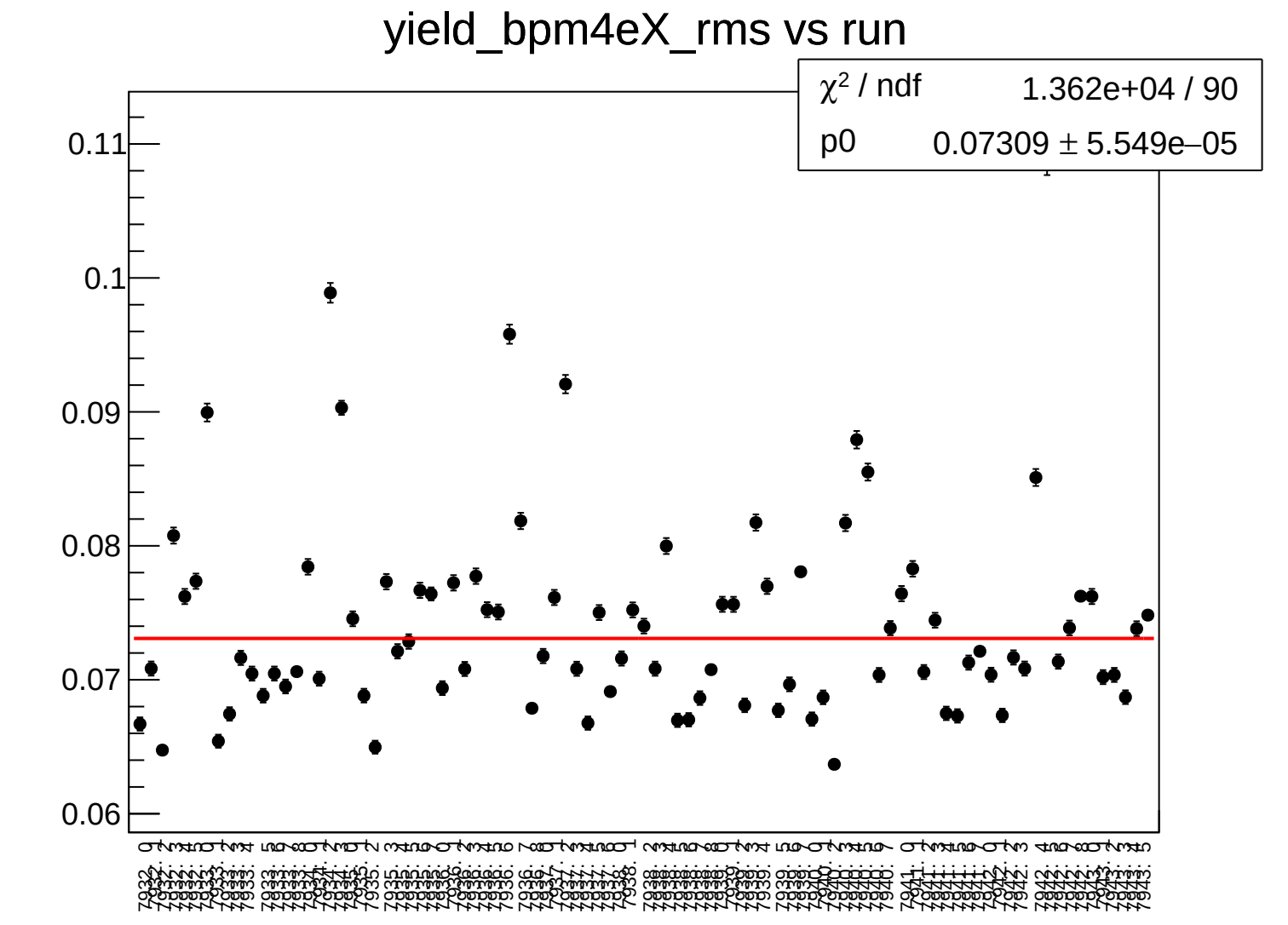

yield_bpm4aY_mean vs run
χ² / ndf 7.498e+04 / 90
p0 0.4695 ± 1.681e−05
0.48
0.475
0.47
0.465
0.46
0.455
pull
Entries 91
Mean −1425
Std Dev 0
60
40
20
0
−20
−40
−60
−80

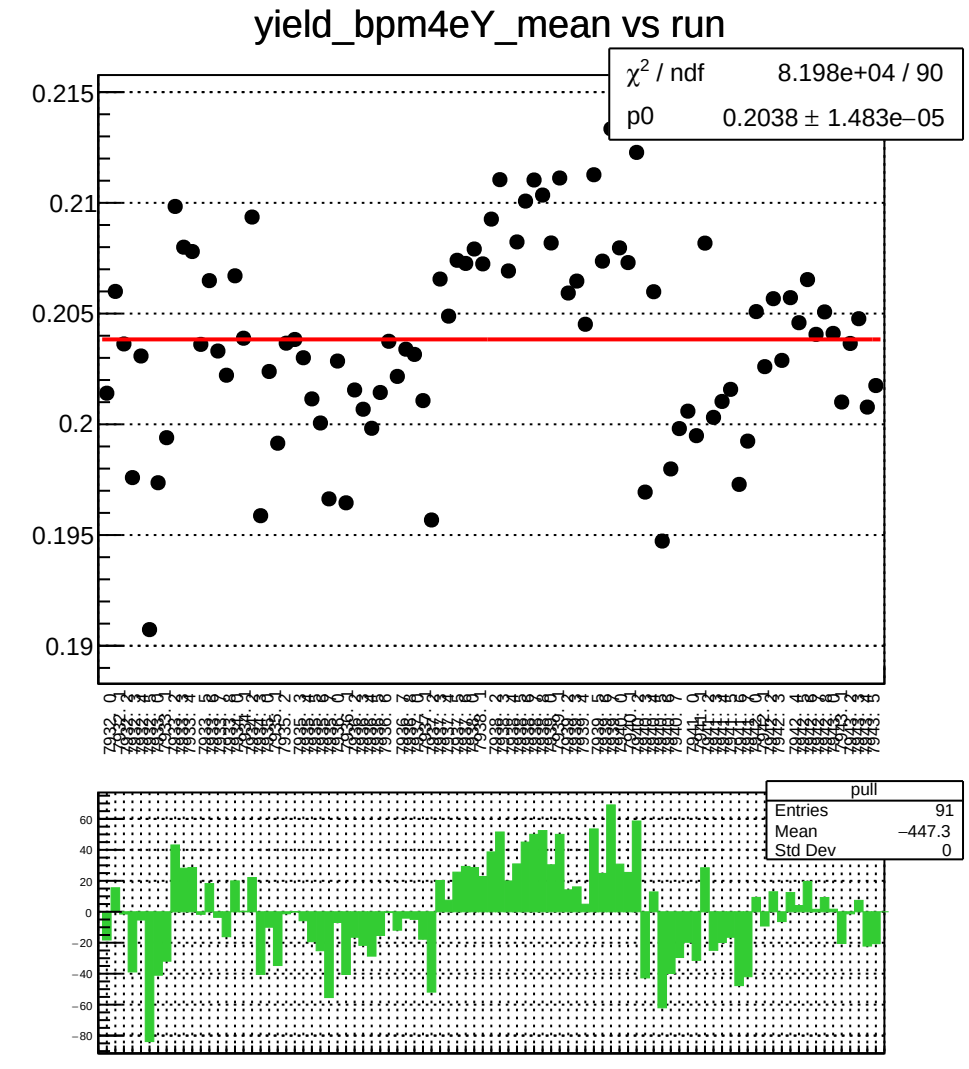

pull1D
Entries 91
Mean −0.8485
Std Dev 4.243
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

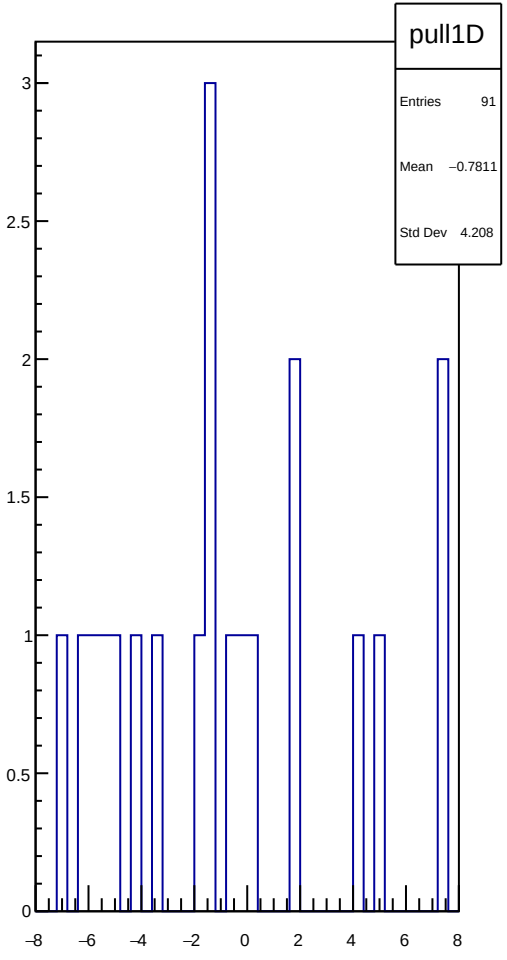

yield_bpm4aY_rms vs run
χ² / ndf 1.003e+04 / 90
p0 0.01568 ± 1.189e–05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

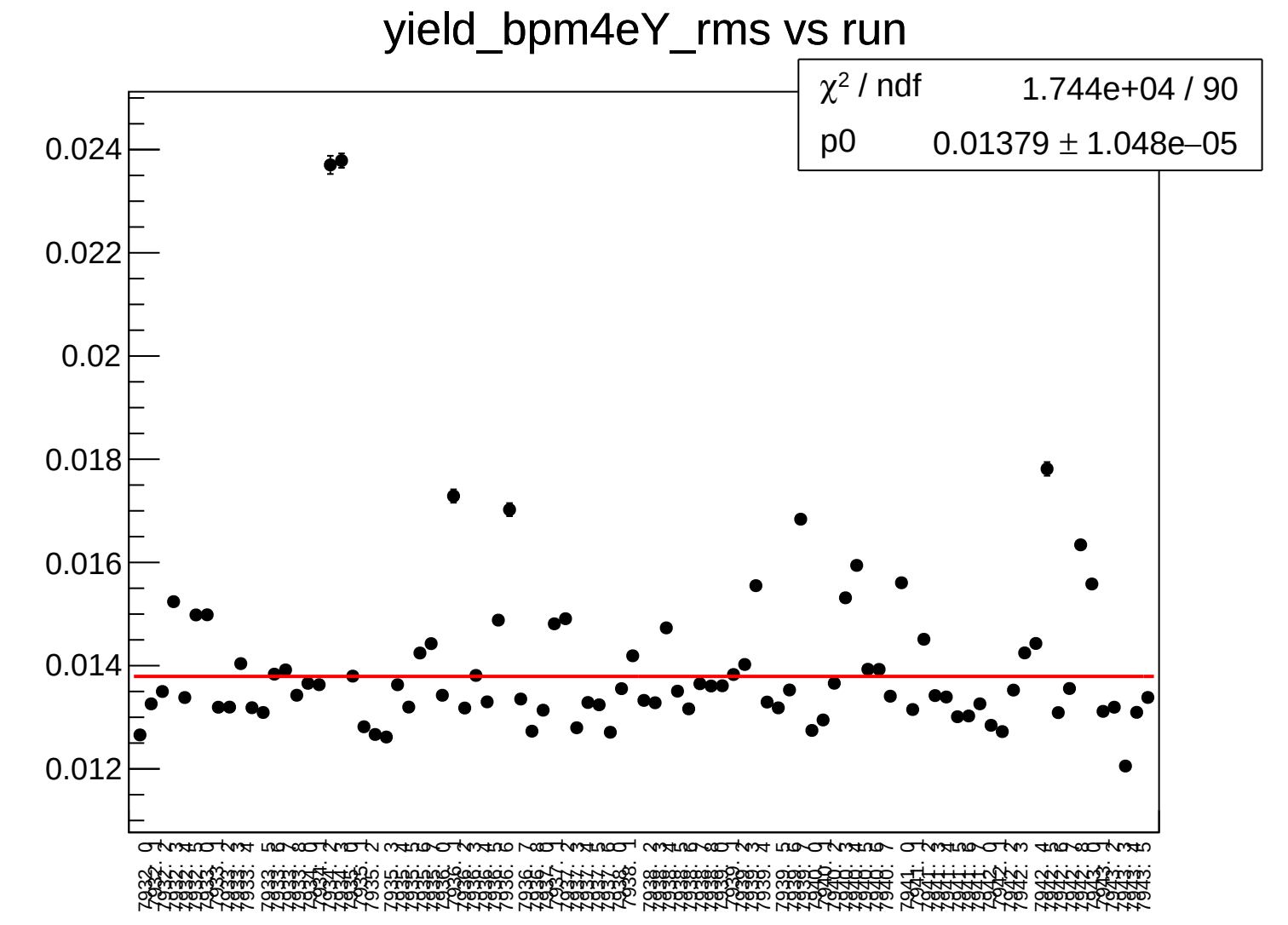

yield_bpm4eX_mean vs run
χ² / ndf 5.903e+04 / 90
p0 −0.118 ± 7.848e−05
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 91
Mean −1400
Std Dev 0
80
60
40
20
0
−20
−40
−60

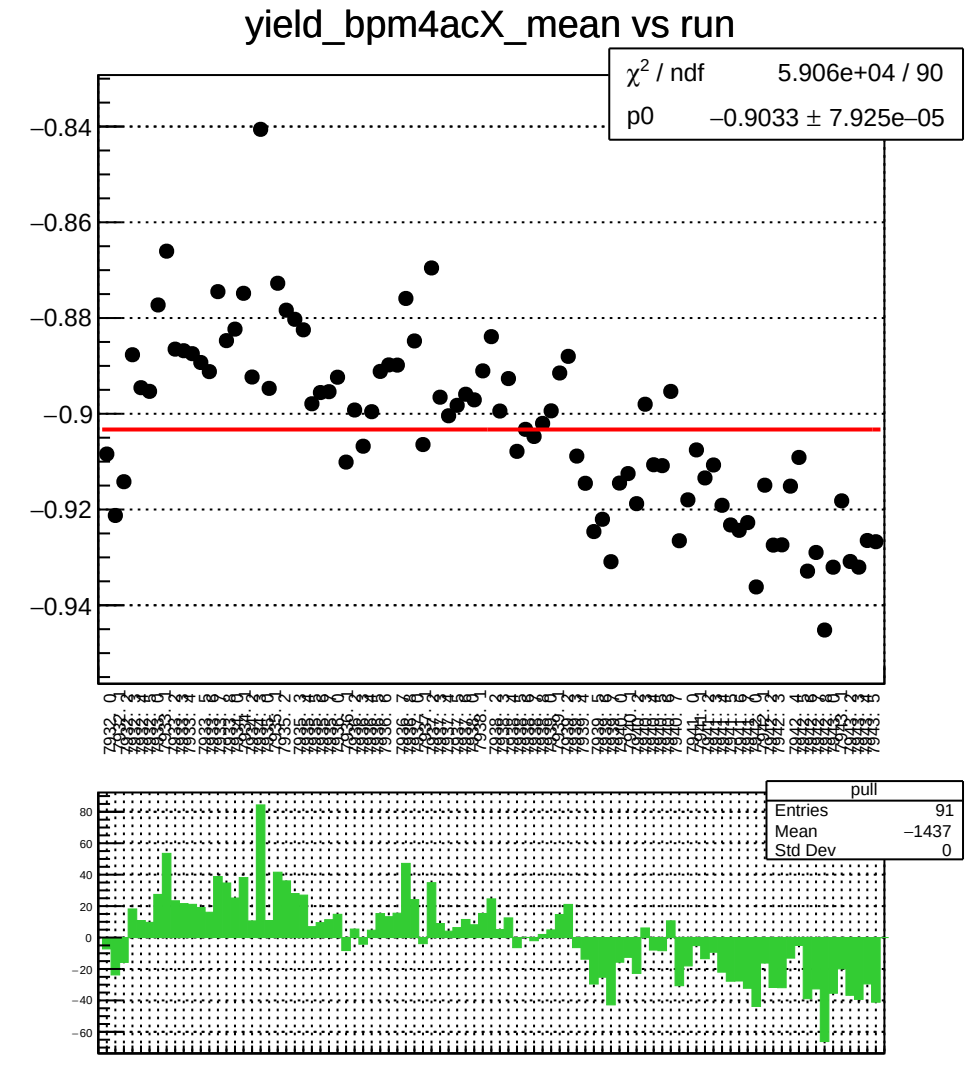

pull1D
Entries 91
Mean −0.05166
Std Dev 5.307
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

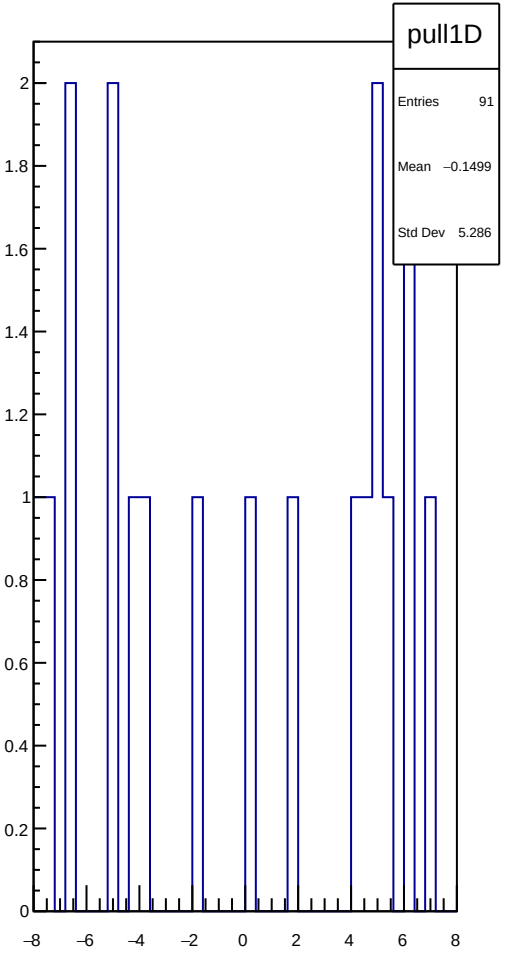

yield_bpm4eX_rms vs run
χ² / ndf 1.362e+04 / 90
p0 0.07309 ± 5.549e–05
0.11
0.1
0.09
0.08
0.07
0.06

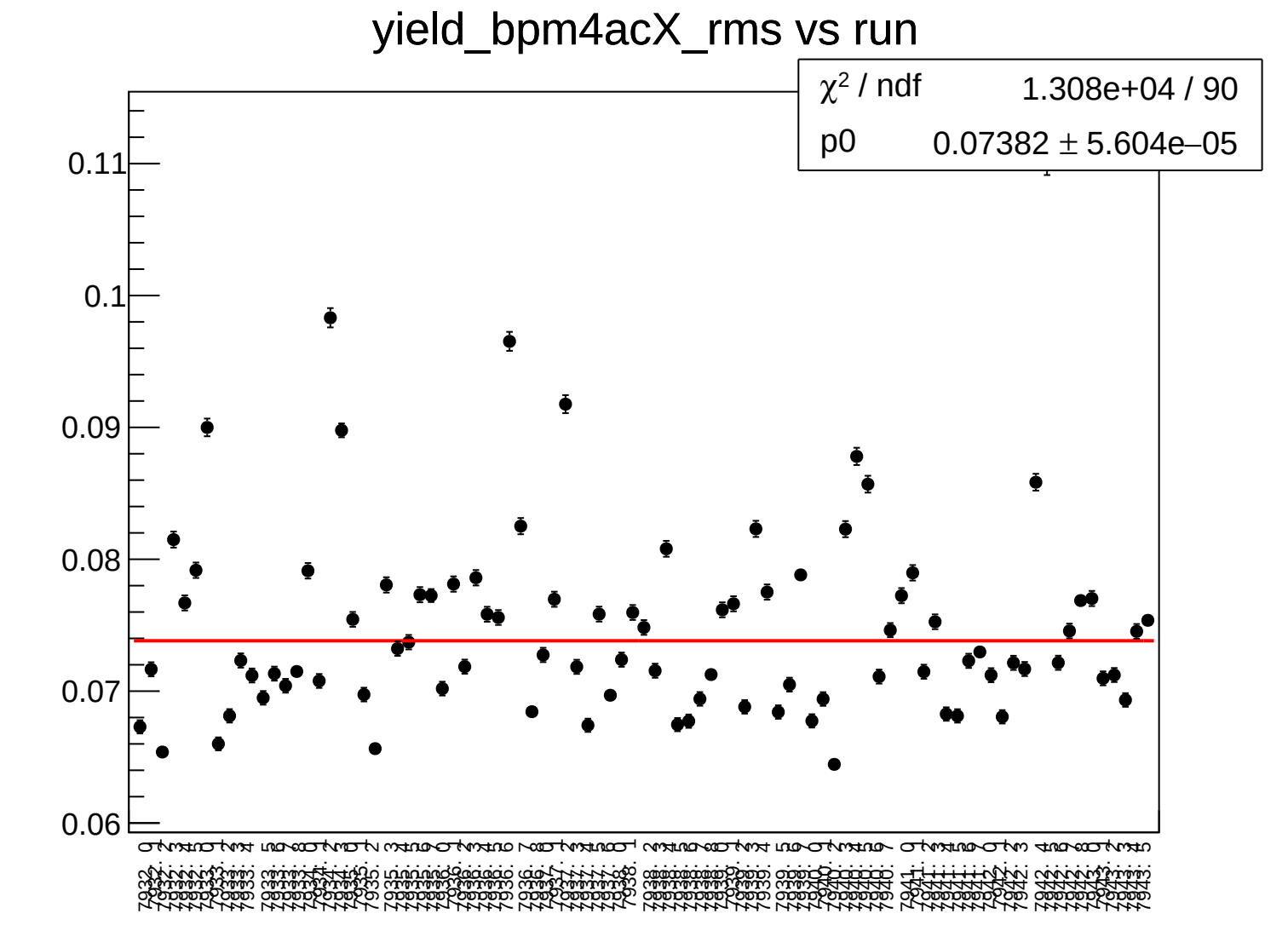

yield_bpm4eY_mean vs run
χ² / ndf 8.198e+04 / 90
p0 0.2038 ± 1.483e−05
0.215
0.21
0.205
0.2
0.195
0.19
pull
Entries 91
Mean −447.3
Std Dev 0
60
40
20
0
−20
−40
−60
−80

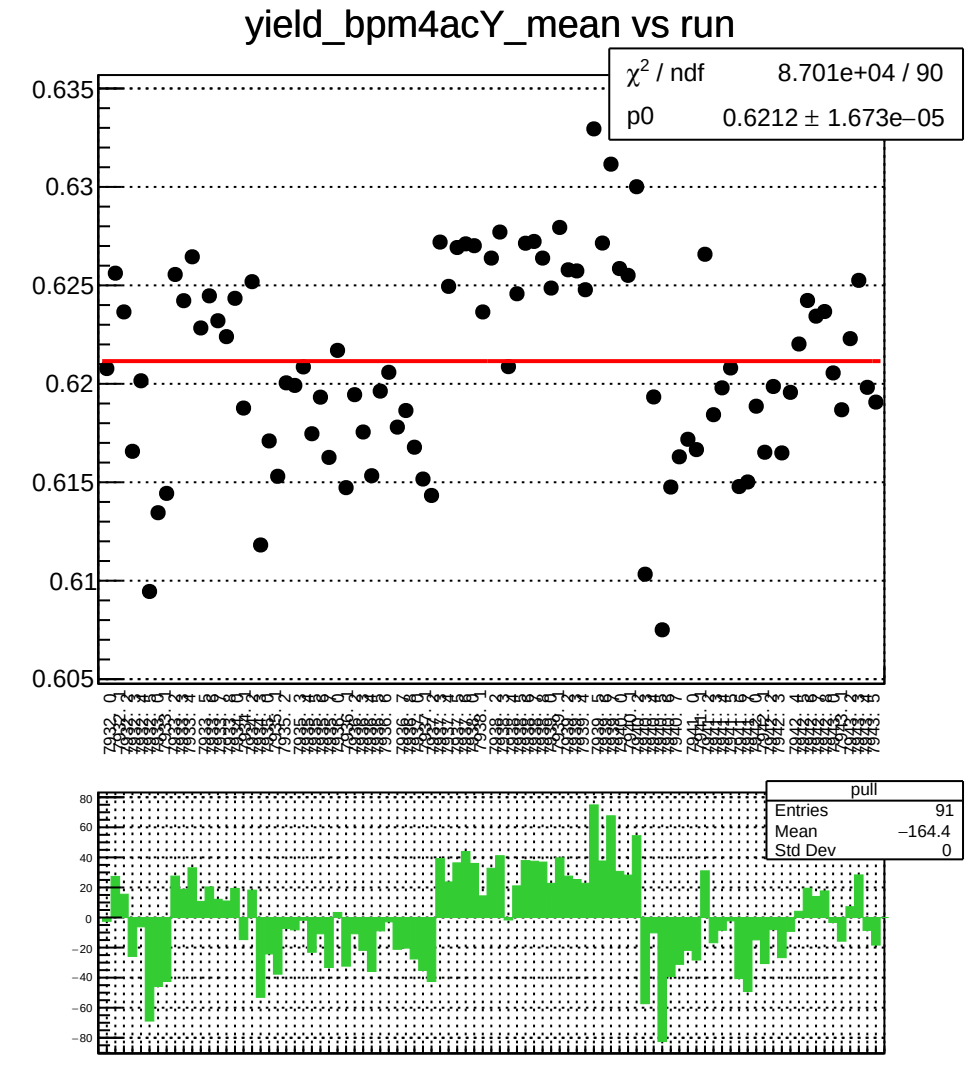

pull1D
Entries 91
Mean −0.7811
Std Dev 4.208
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

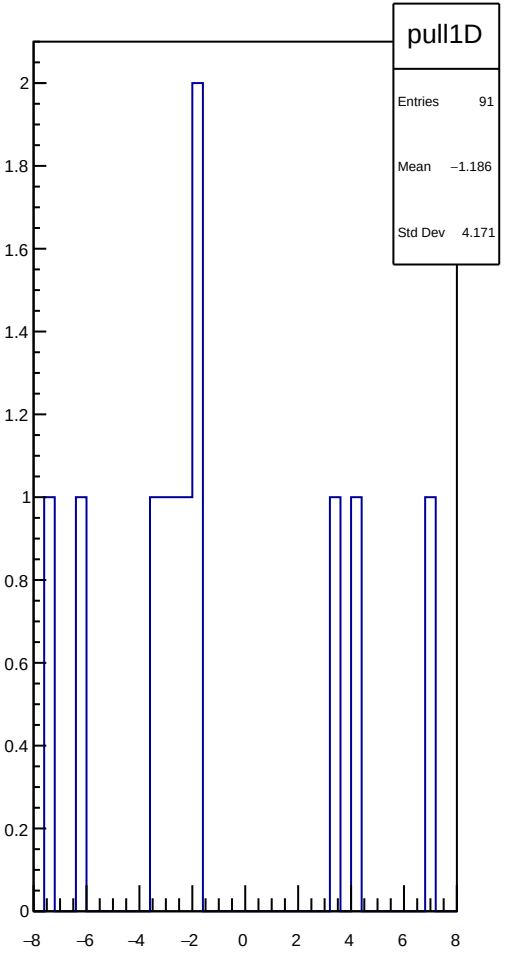

yield_bpm4eY_rms vs run
χ² / ndf 1.744e+04 / 90
p0 0.01379 ± 1.048e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

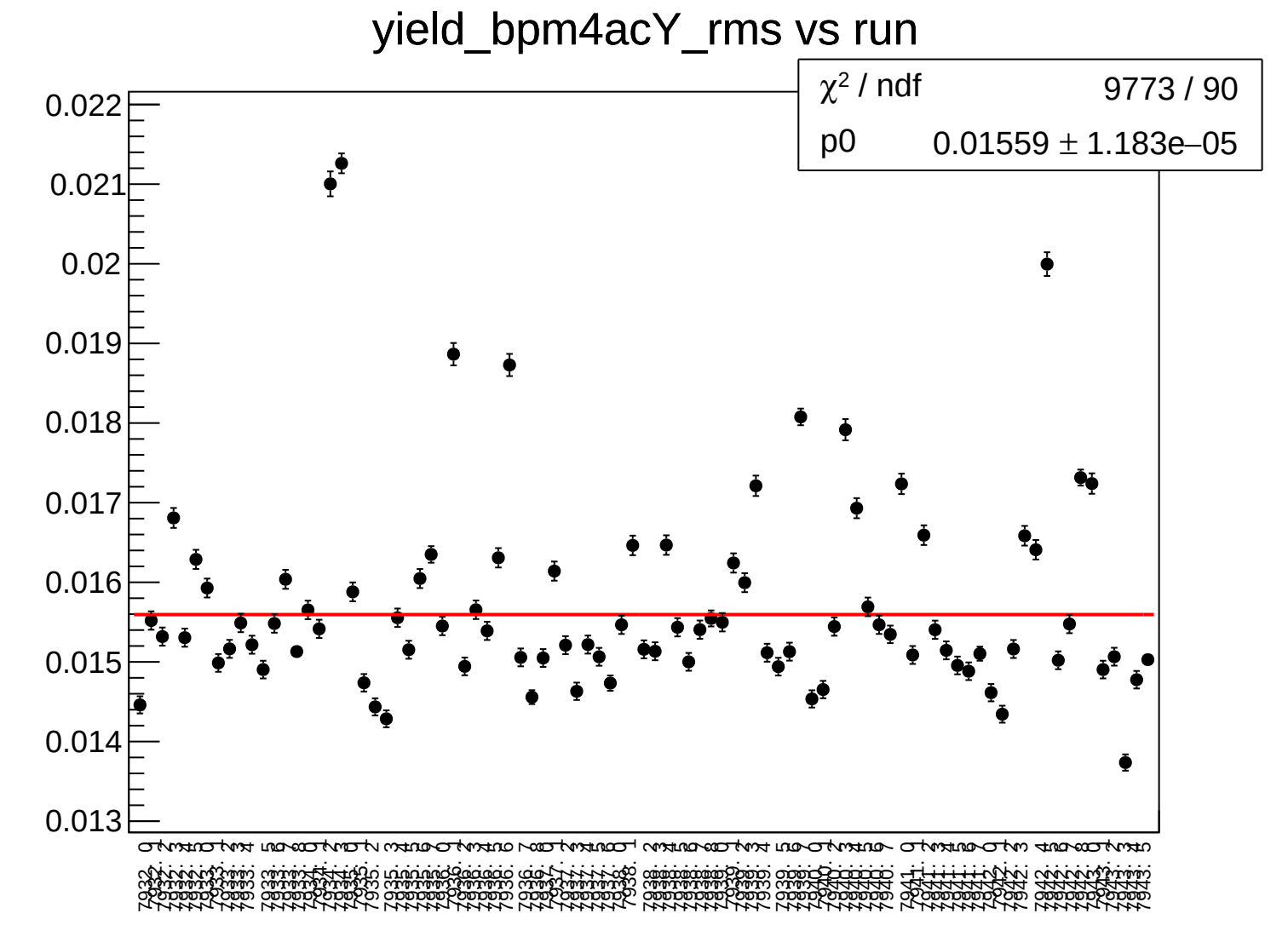

yield_bpm4acX_mean vs run
χ² / ndf 5.906e+04 / 90
p0 −0.9033 ± 7.925e−05
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
pull
Entries 91
Mean −1437
Std Dev 0
80
60
40
20
0
−20
−40
−60

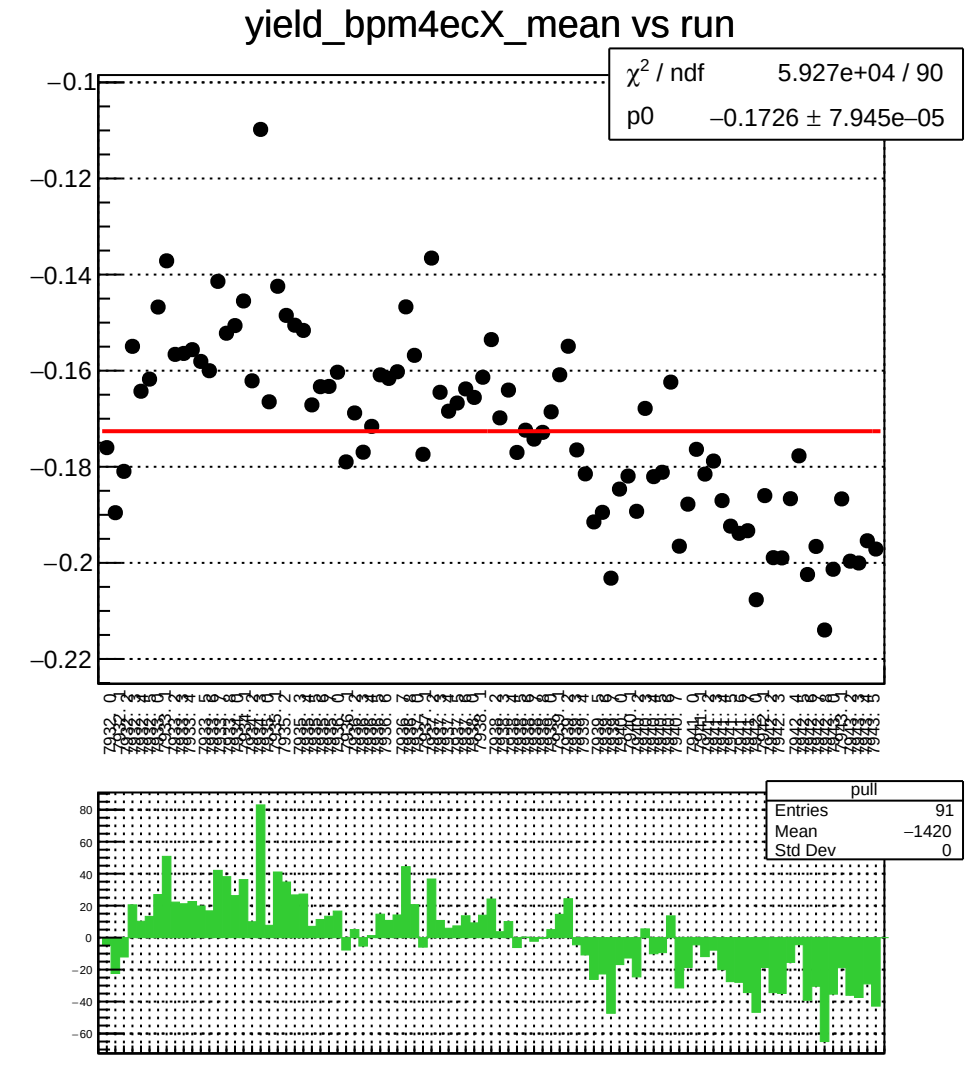

pull1D
Entries 91
Mean −0.1499
Std Dev 5.286
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

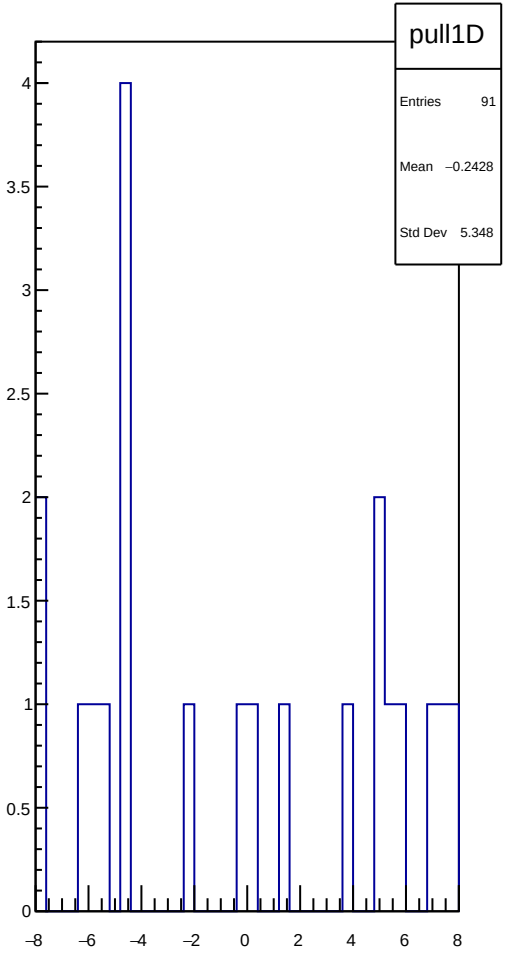

yield_bpm4acX_rms vs run
χ² / ndf 1.308e+04 / 90
p0 0.07382 ± 5.604e−05
0.11
0.1
0.09
0.08
0.07
0.06

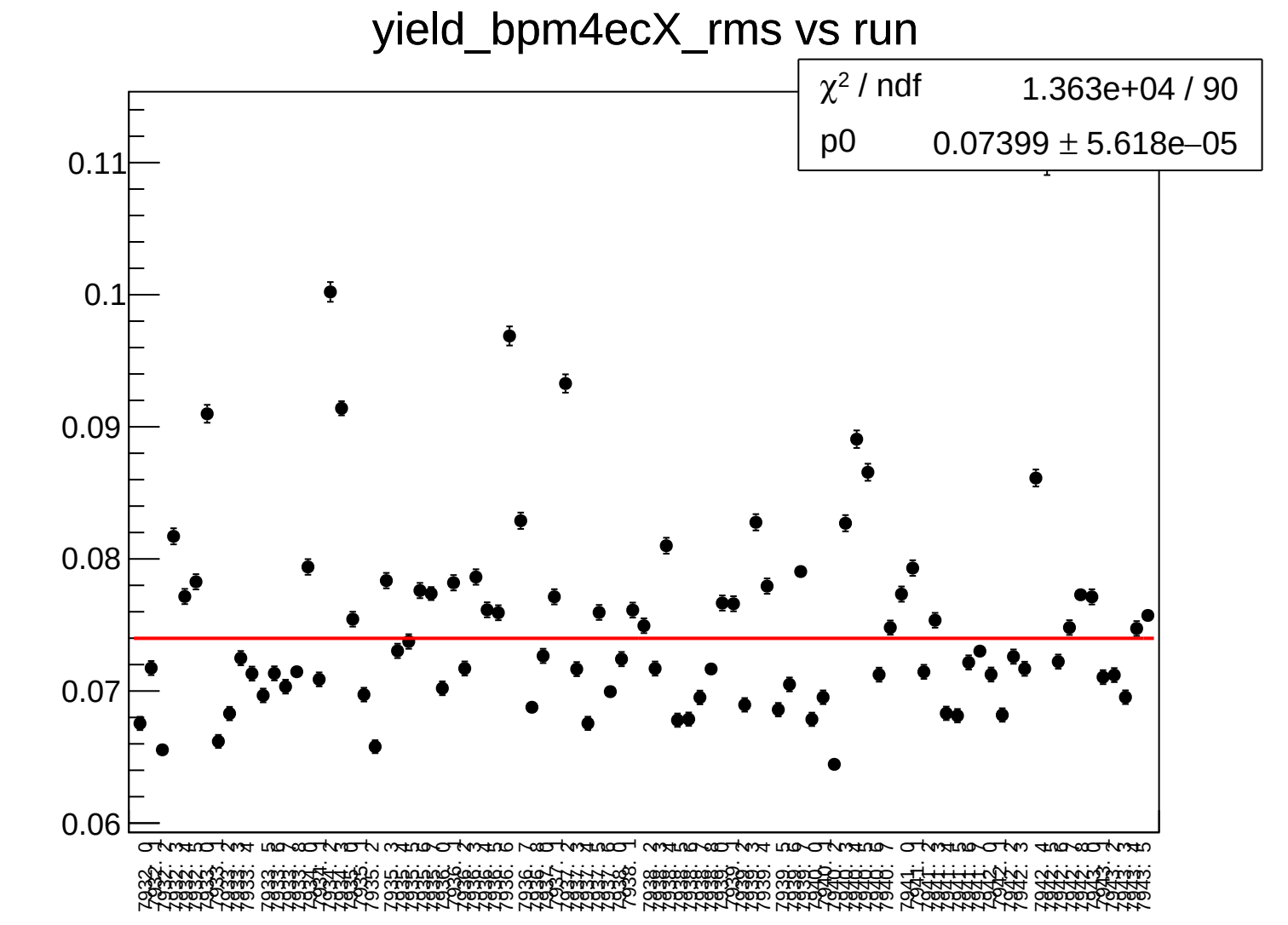

yield_bpm4acY_mean vs run
χ² / ndf 8.701e+04 / 90
p0 0.6212 ± 1.673e−05
0.635
0.63
0.625
0.62
0.615
0.61
0.605
pull
Entries 91
Mean −164.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

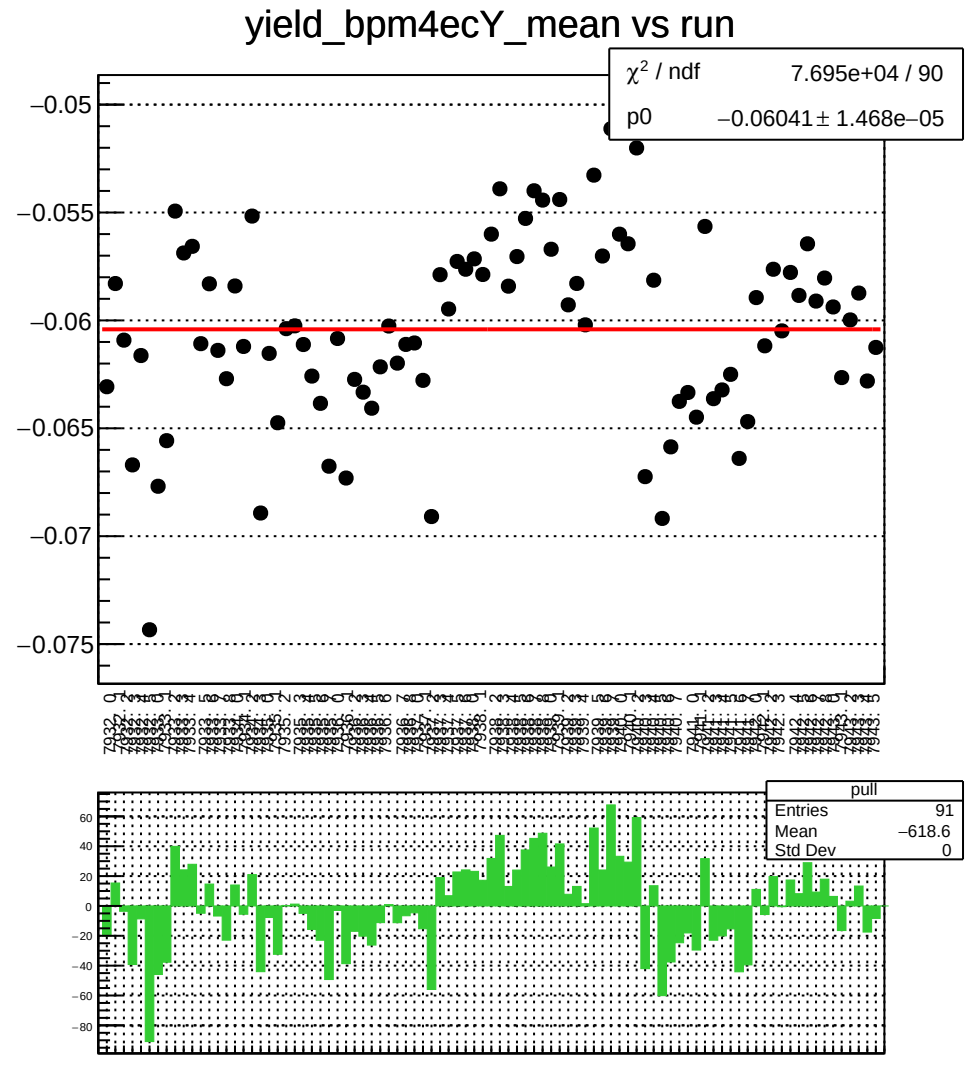

pull1D
Entries 91
Mean −1.186
Std Dev 4.171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

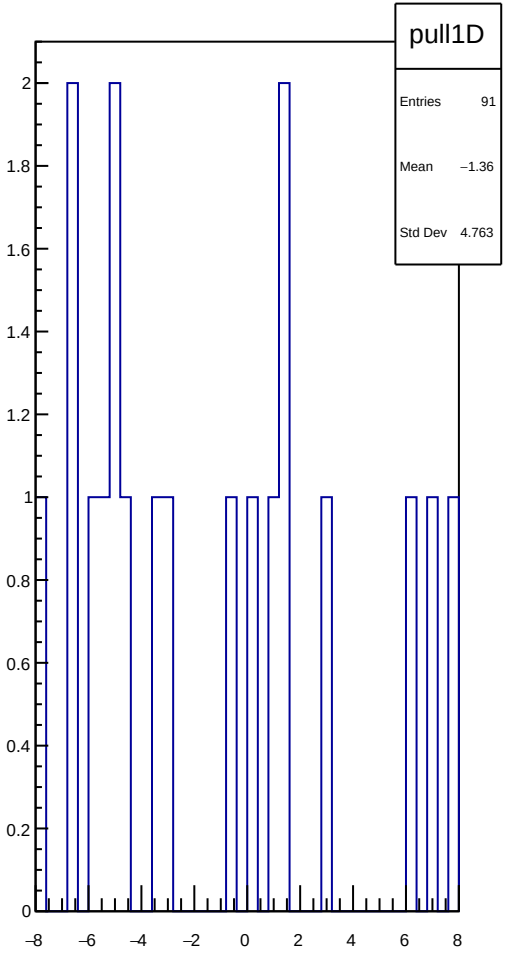

yield_bpm4acY_rms vs run
χ² / ndf 9773 / 90
p0 0.01559 ± 1.183e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

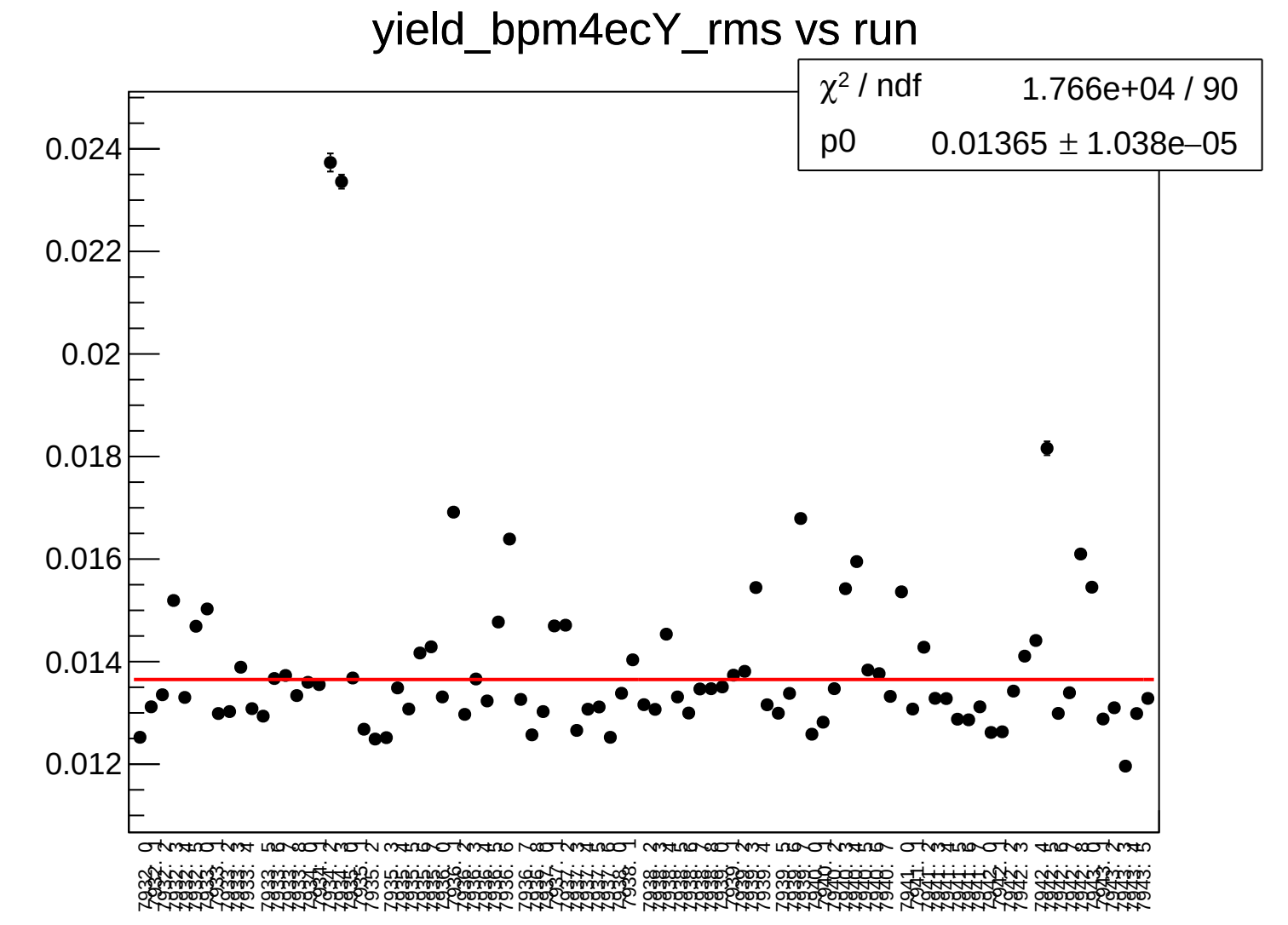

yield_bpm4ecX_mean vs run
χ² / ndf 5.927e+04 / 90
p0 −0.1726 ± 7.945e−05
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 91
Mean −1420
Std Dev 0
80
60
40
20
0
−20
−40
−60

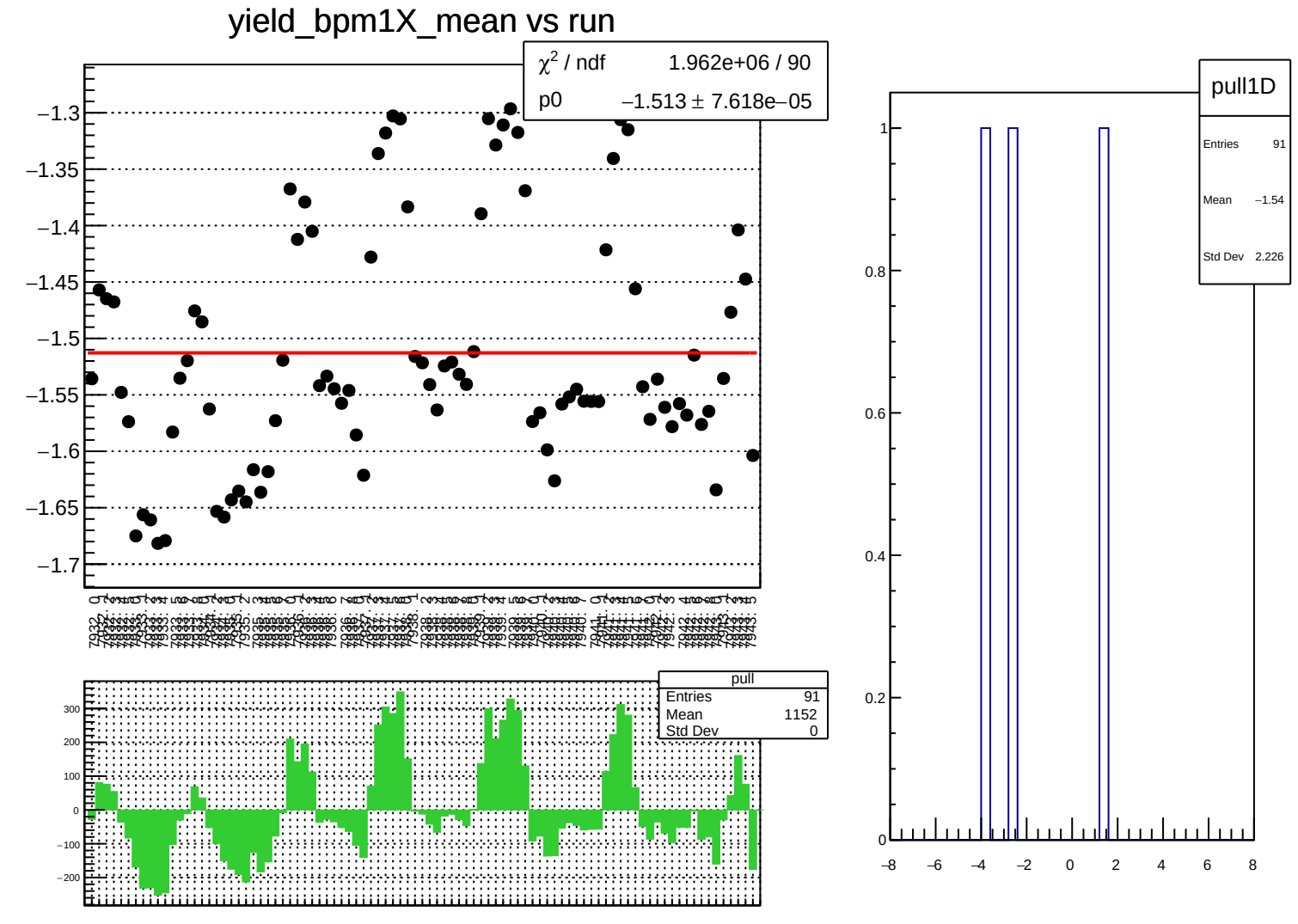

pull1D
Entries 91
Mean −0.2428
Std Dev 5.348
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

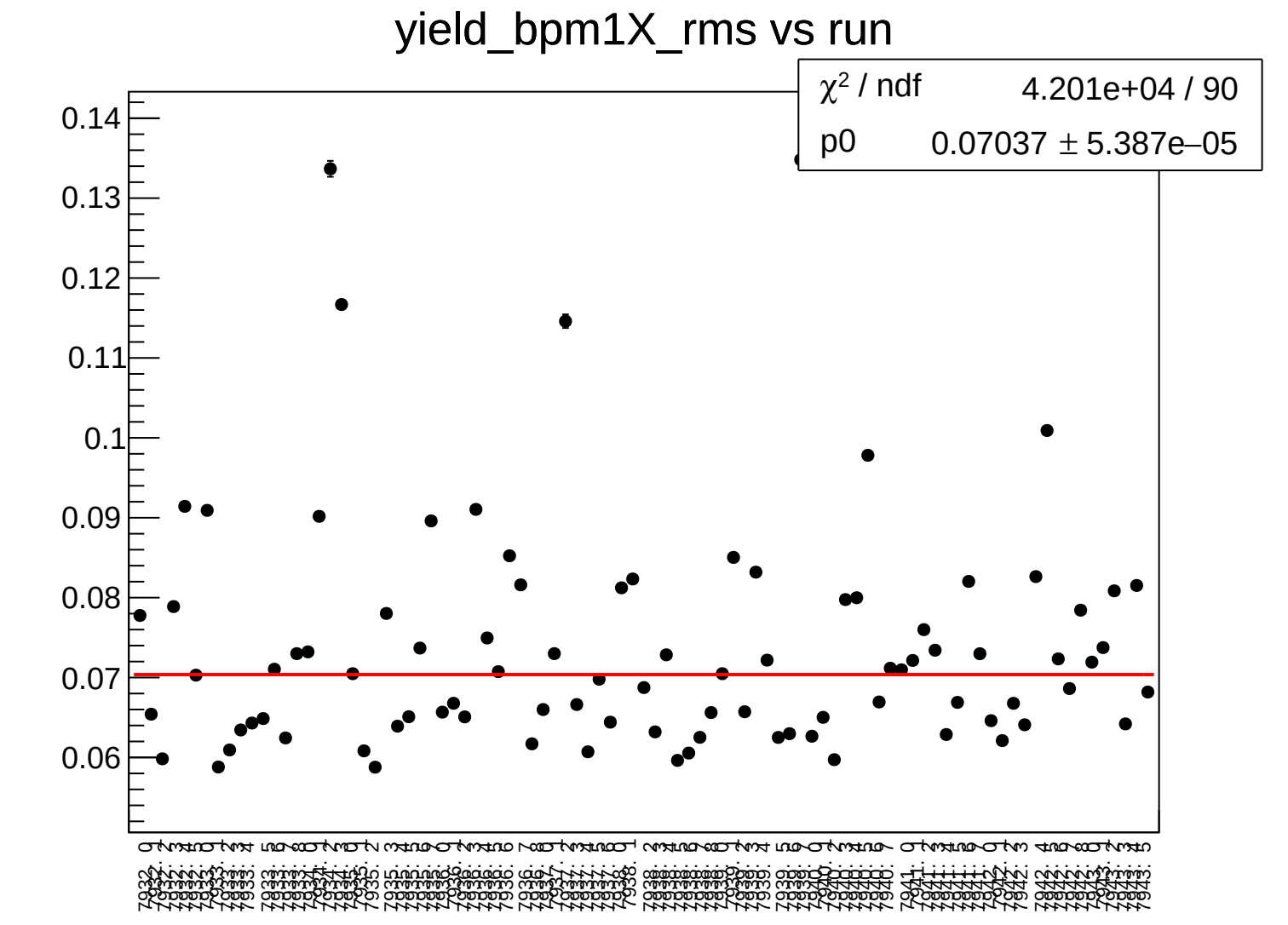

yield_bpm4ecX_rms vs run
χ² / ndf 1.363e+04 / 90
p0 0.07399 ± 5.618e–05
0.11
0.1
0.09
0.08
0.07
0.06

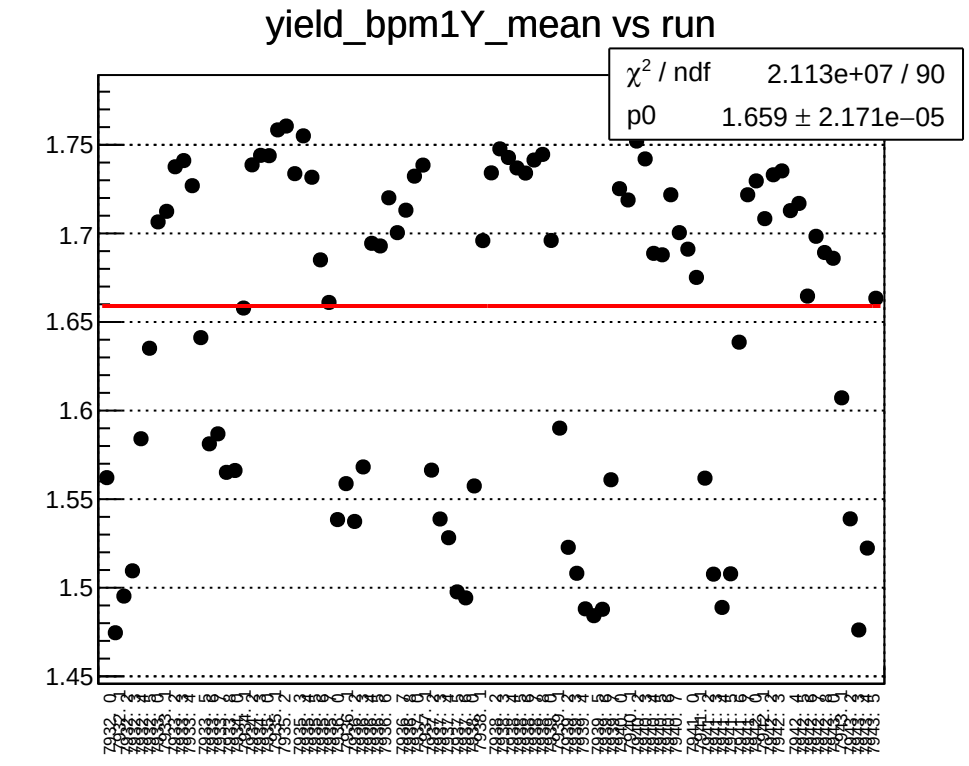

yield_bpm4ecY_mean vs run
χ² / ndf 7.695e+04 / 90
p0 −0.06041 ± 1.468e−05
−0.05
−0.055
−0.06
−0.065
−0.07
−0.075
pull
Entries 91
Mean −618.6
Std Dev 0
60
40
20
0
−20
−40
−60
−80

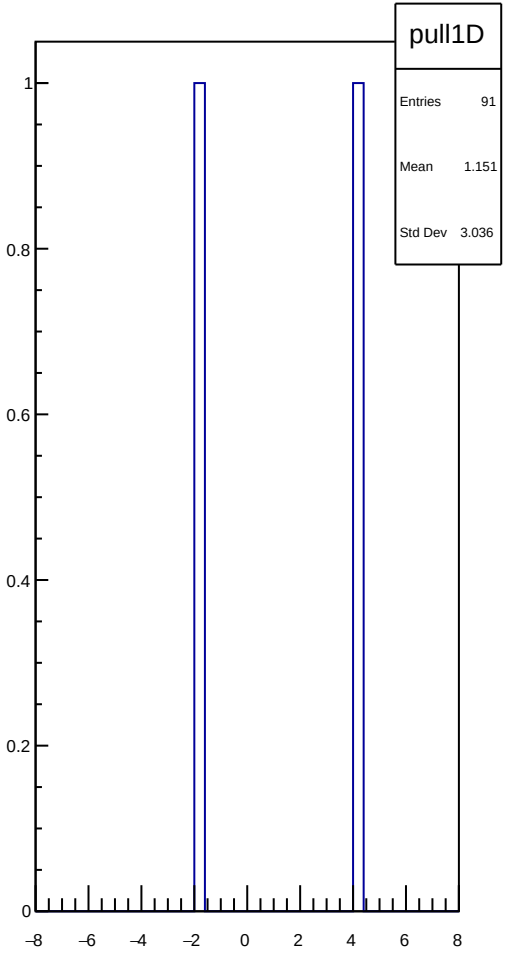

pull1D
Entries 91
Mean −1.36
Std Dev 4.763
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

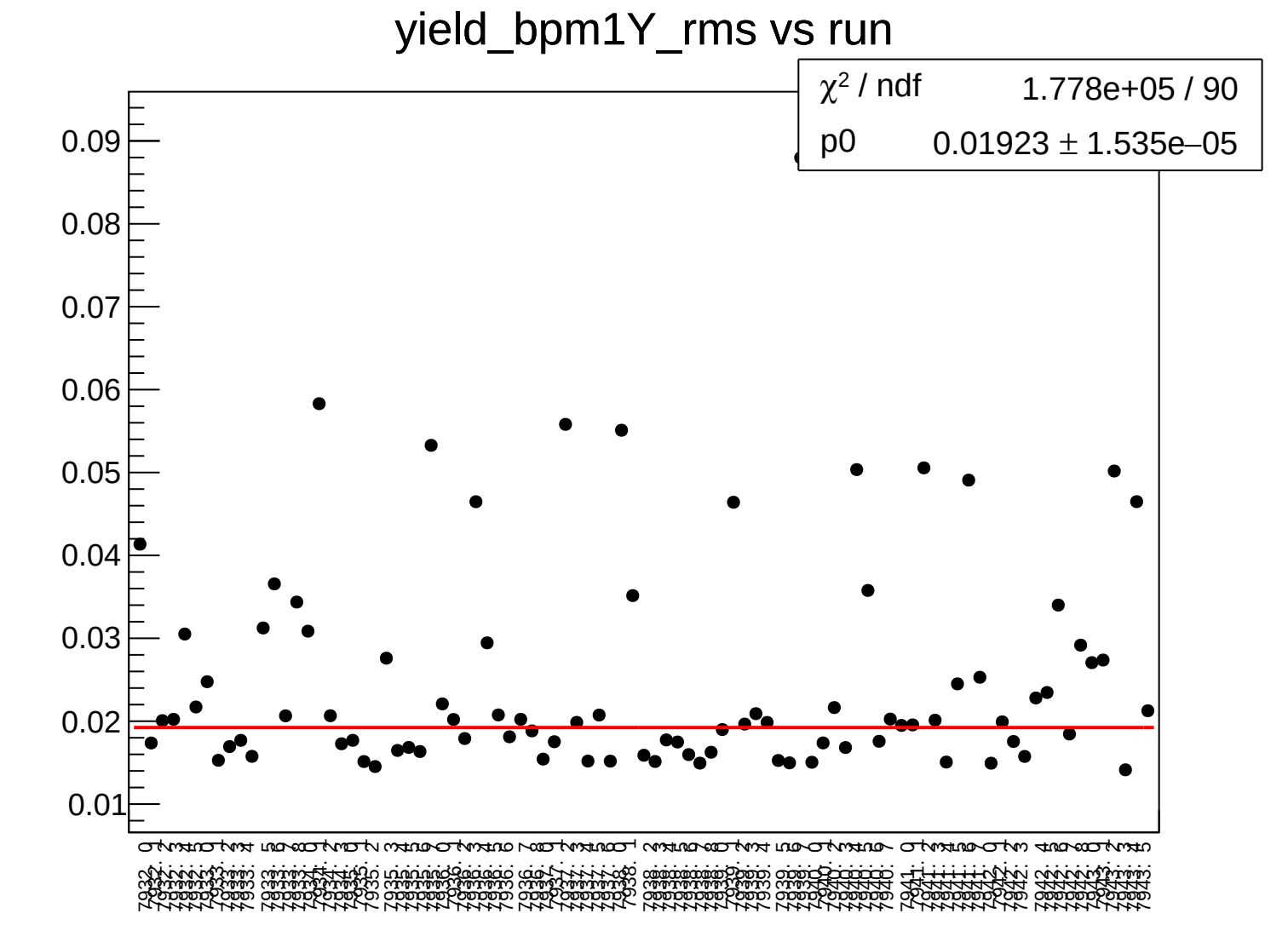

yield_bpm4ecY_rms vs run
χ² / ndf 1.766e+04 / 90
p0 0.01365 ± 1.038e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

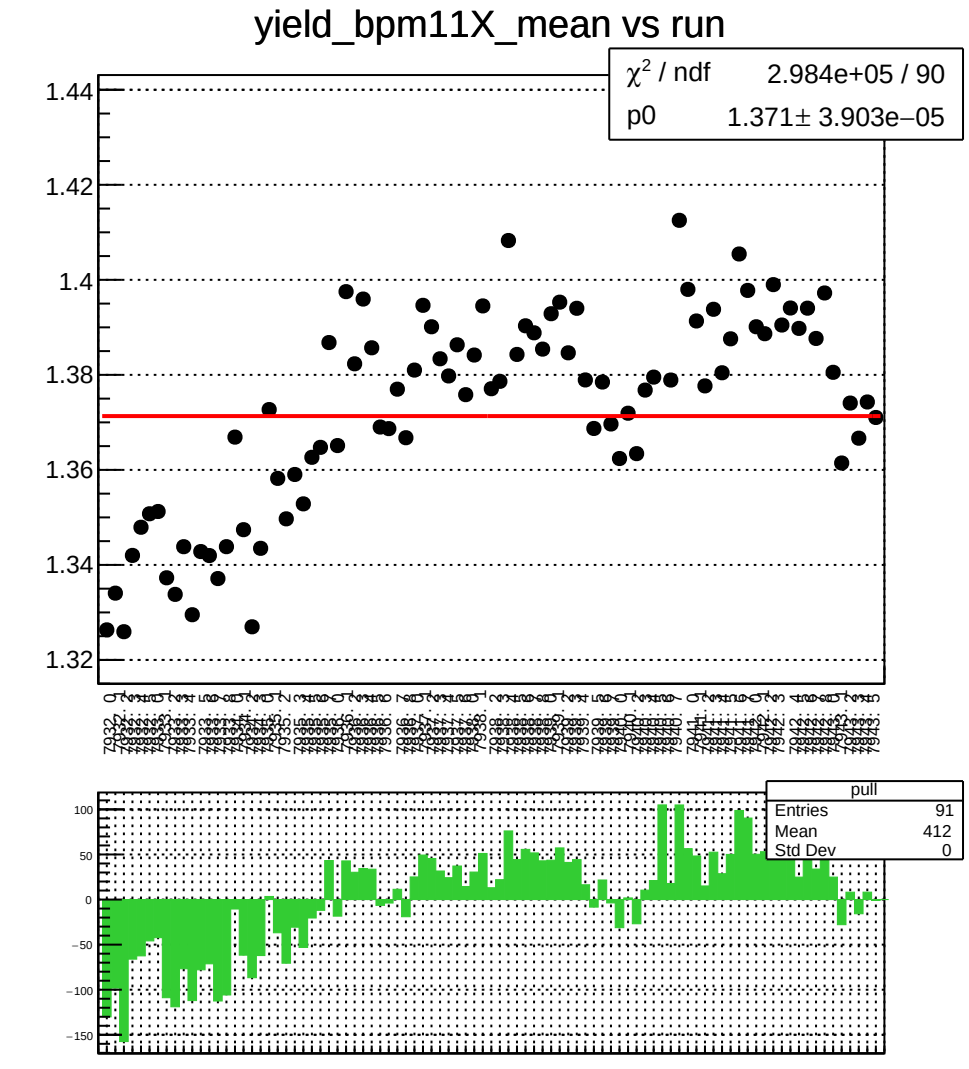

yield_bpm1X_mean vs run
χ² / ndf 1.962e+06 / 90
p0 −1.513 ± 7.618e−05
−1.3
−1.35
−1.4
−1.45
−1.5
−1.55
−1.6
−1.65
−1.7
pull
Entries 91
Mean 1152
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 91
Mean −1.54
Std Dev 2.226
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

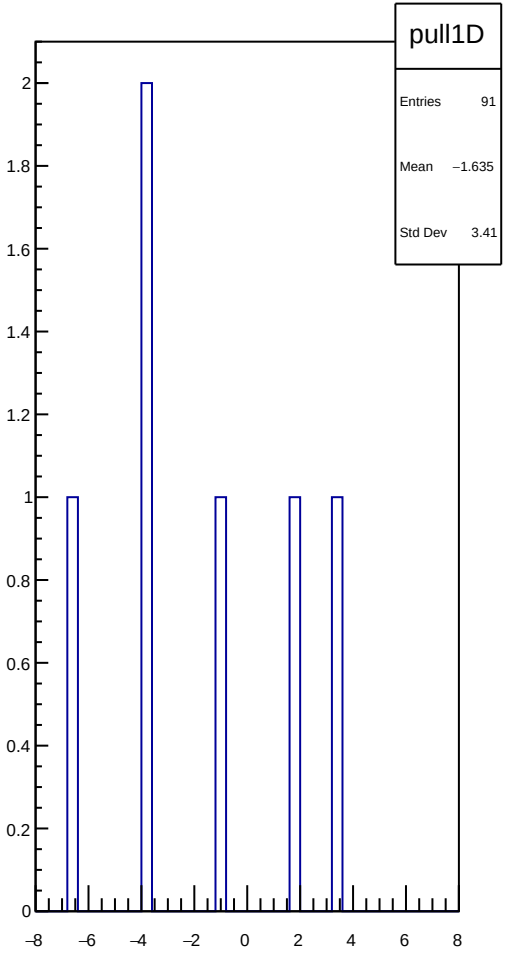

yield_bpm1X_rms vs run
χ² / ndf 4.201e+04 / 90
p0 0.07037 ± 5.387e–05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

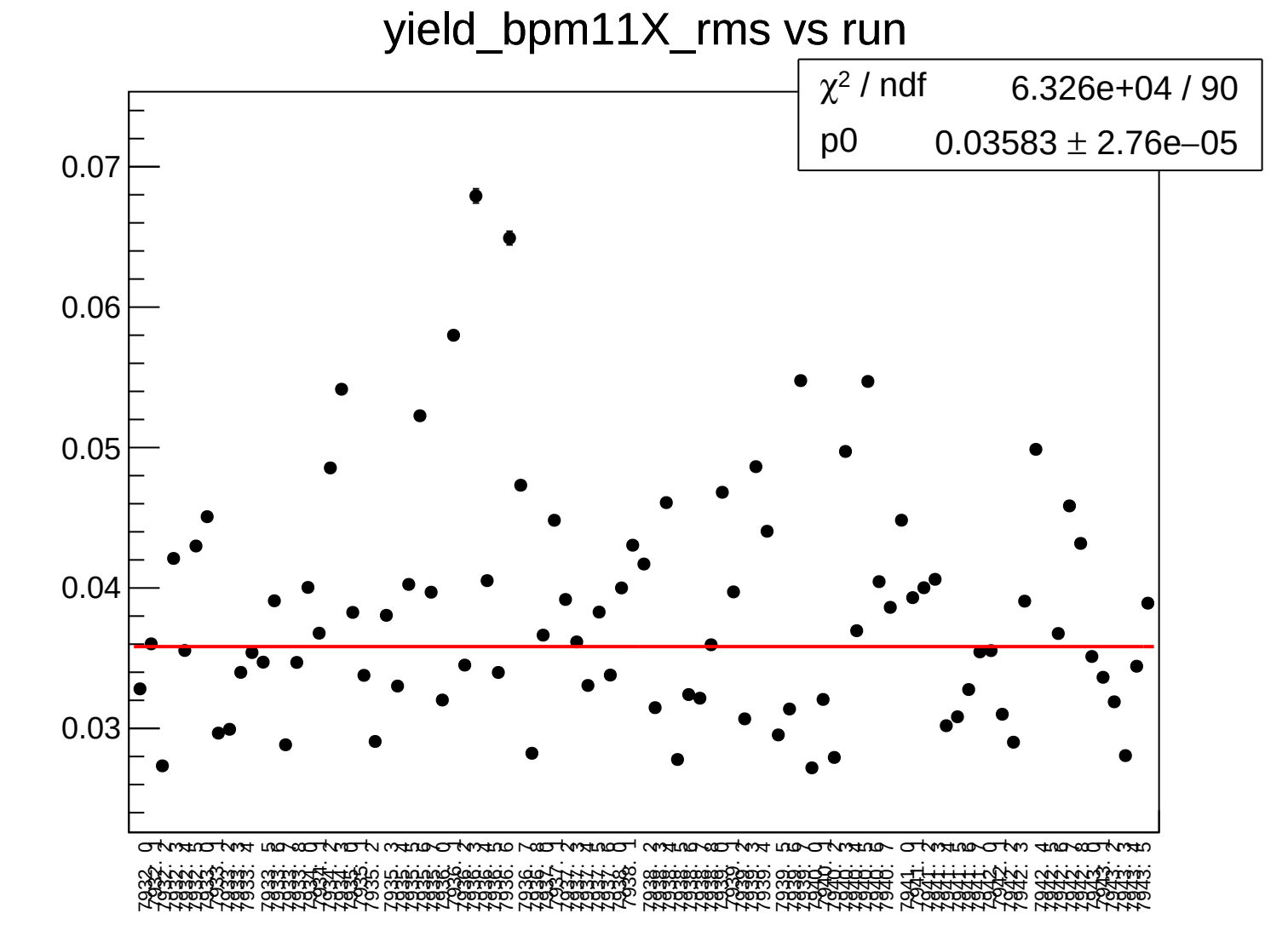

yield_bpm1Y_mean vs run
χ² / ndf 2.113e+07 / 90
p0 1.659 ± 2.171e−05
1.75
1.7
1.65
1.6
1.55
1.5
1.45
pull
Entries 91
Mean 56.56
Std Dev 44.84
600
400
200
0
−200
−400
−600
−800
−1000
−1200

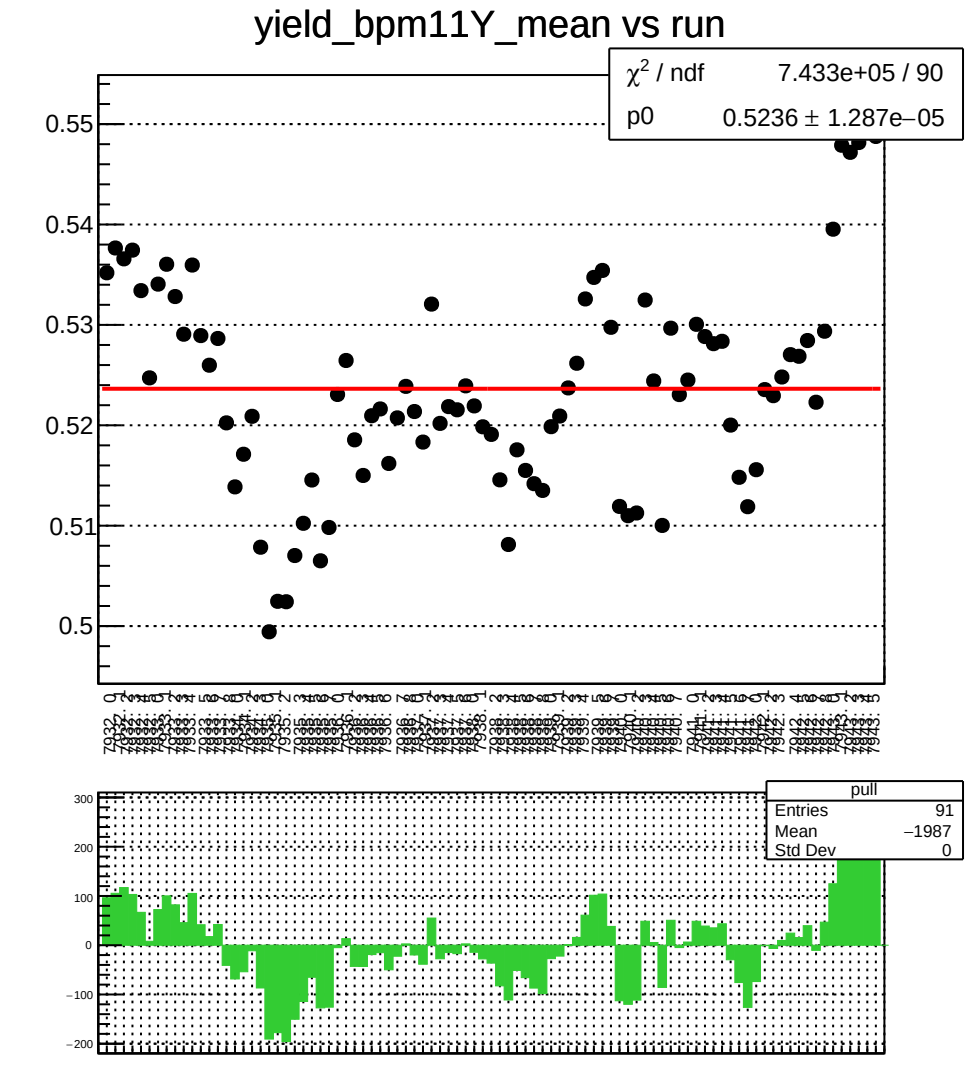

pull1D
Entries 91
Mean 1.151
Std Dev 3.036
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

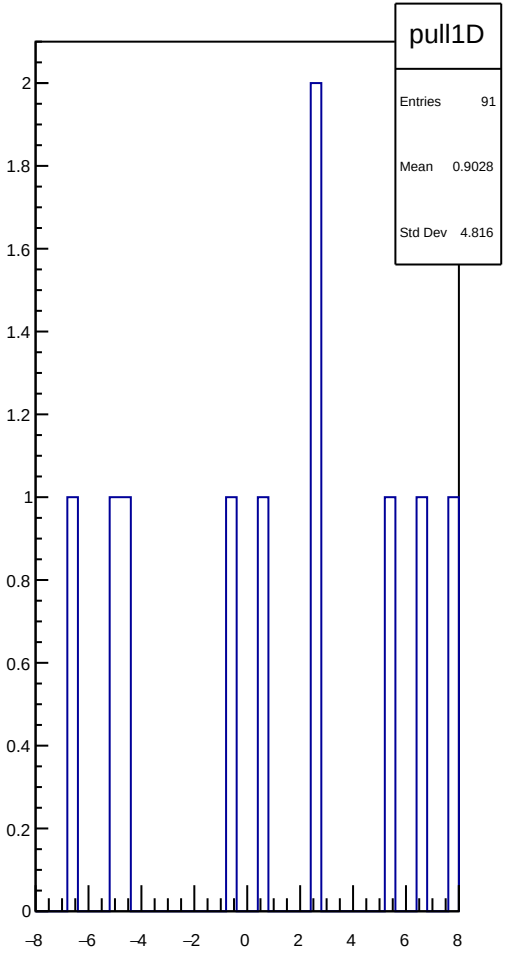

yield_bpm1Y_rms vs run
χ² / ndf 1.778e+05 / 90
p0 0.01923 ± 1.535e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

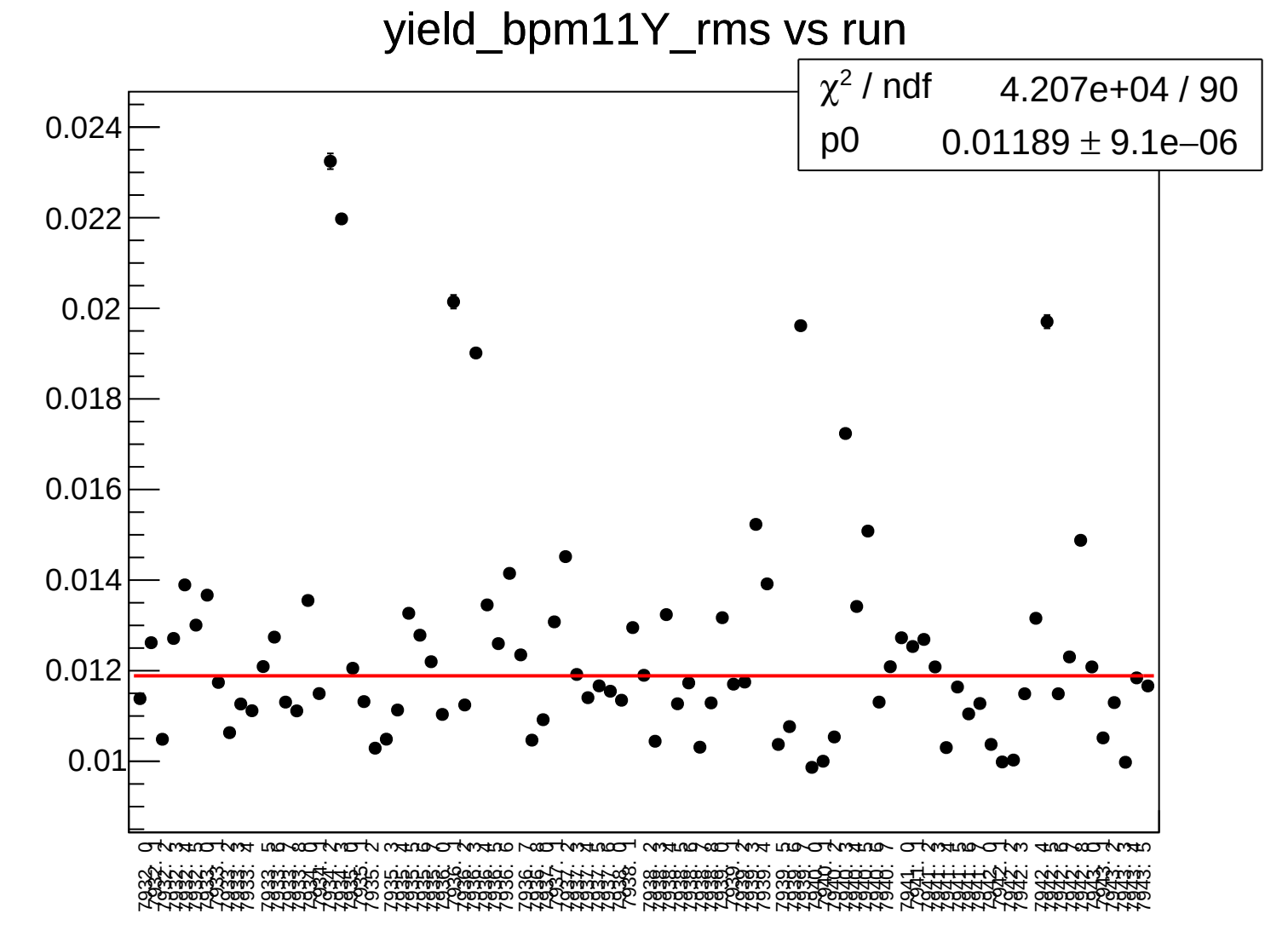

yield_bpm11X_mean vs run
χ² / ndf 2.984e+05 / 90
p0 1.371± 3.903e−05
1.44
1.42
1.4
1.38
1.36
1.34
1.32
pull
Entries 91
Mean 412
Std Dev 0
100
50
0
−50
−100
−150

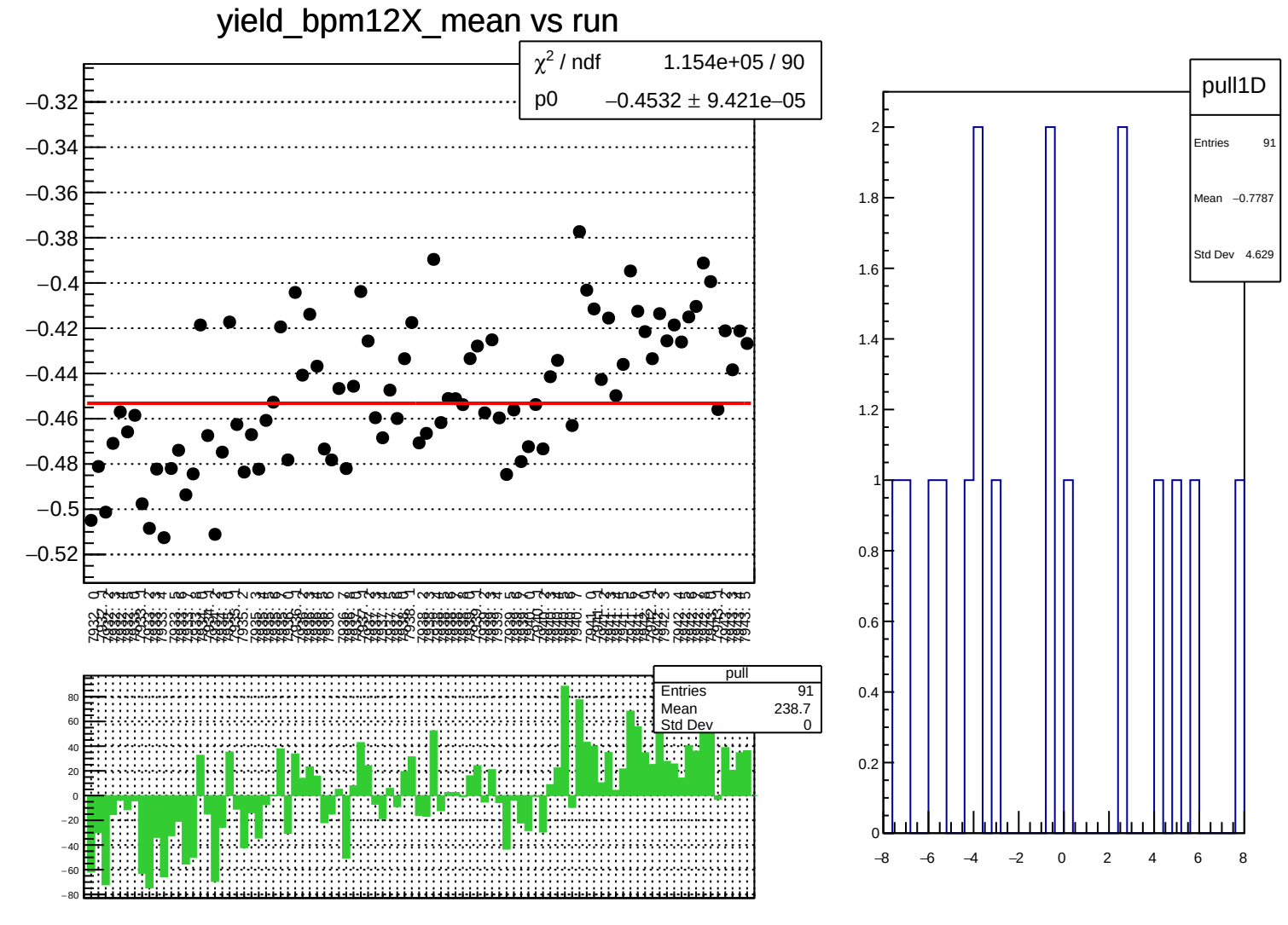

pull1D
Entries 91
Mean −1.635
Std Dev 3.41
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

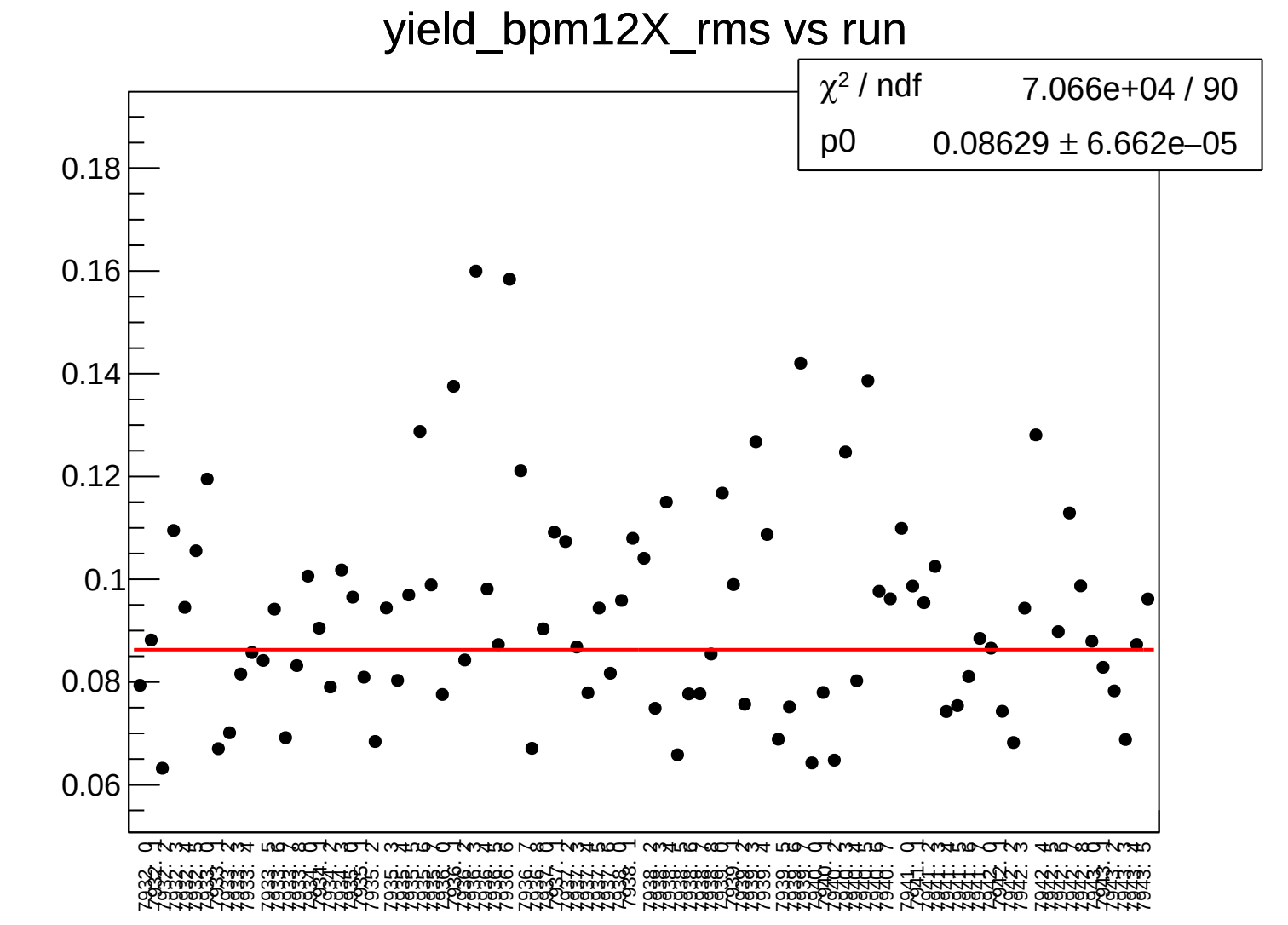

yield_bpm11X_rms vs run
χ² / ndf 6.326e+04 / 90
p0 0.03583 ± 2.76e−05
0.07
0.06
0.05
0.04
0.03

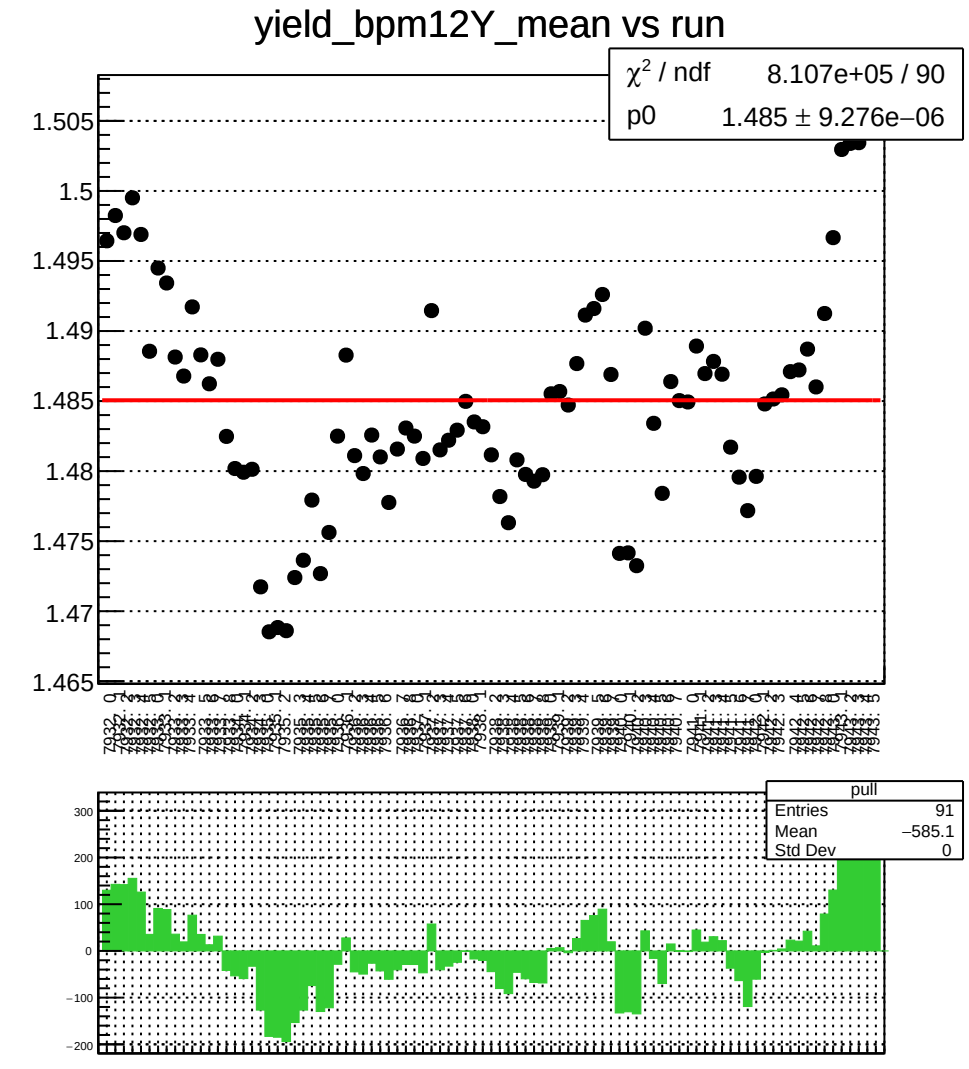

yield_bpm11Y_mean vs run
χ² / ndf 7.433e+05 / 90
p0 0.5236 ± 1.287e−05
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 91
Mean −1987
Std Dev 0
300
200
100
0
−100
−200

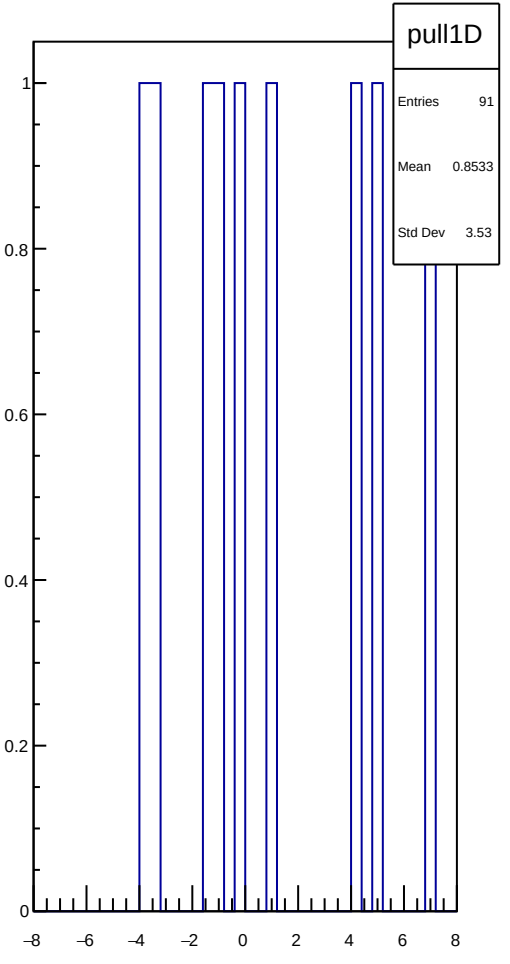

pull1D
Entries 91
Mean 0.9028
Std Dev 4.816
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

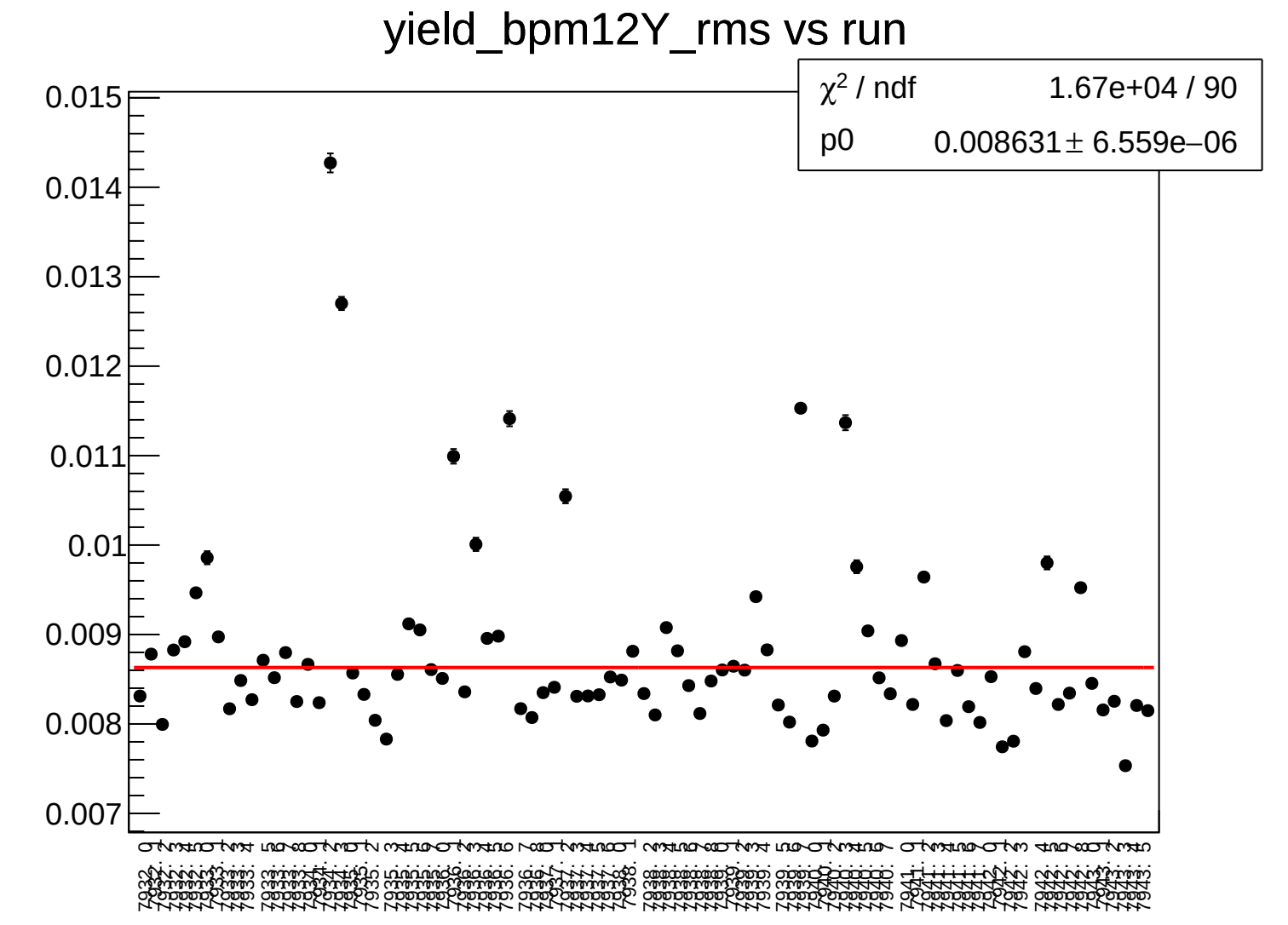

yield_bpm11Y_rms vs run
χ^2 / ndf 4.207e+04 / 90
p0 0.01189 ± 9.1e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

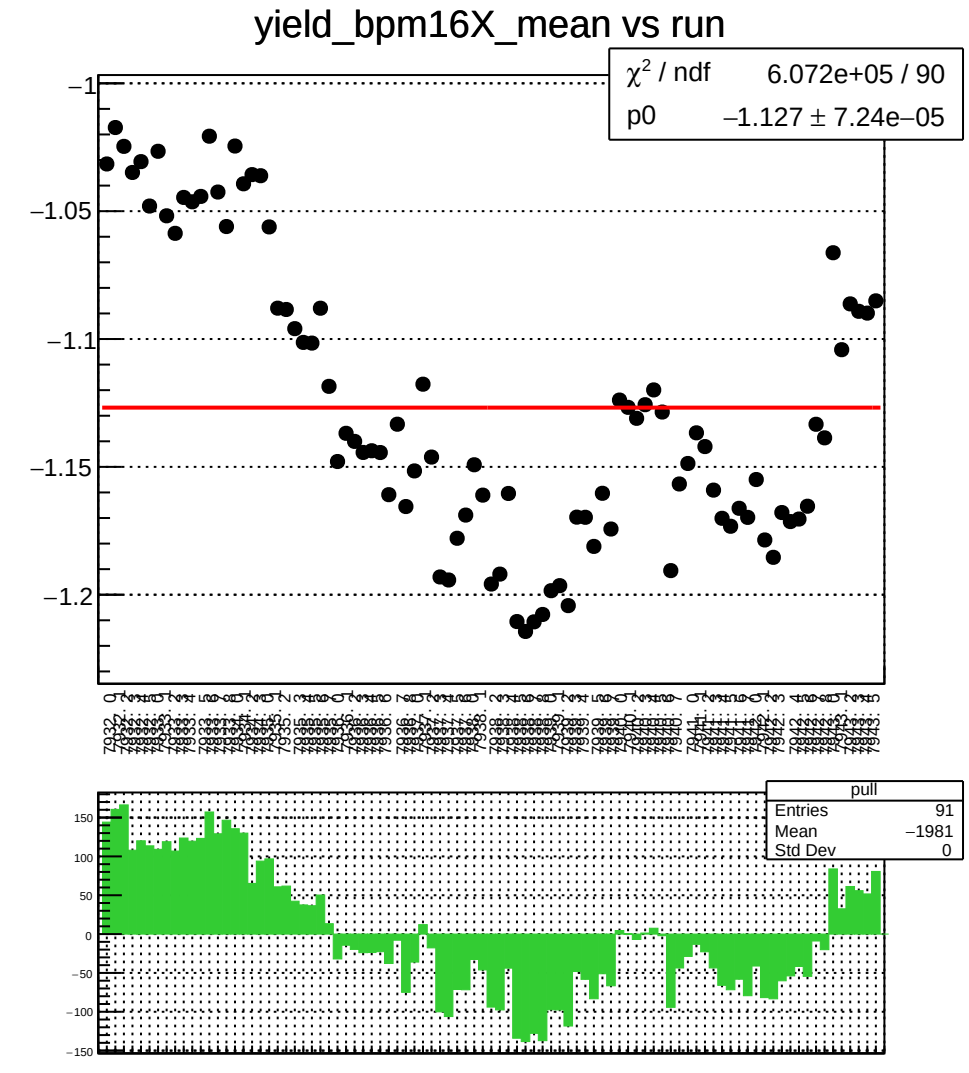

yield_bpm12X_mean vs run
χ² / ndf 1.154e+05 / 90
p0 −0.4532 ± 9.421e−05
pull
Entries 91
Mean 238.7
Std Dev 0
pull1D
Entries 91
Mean −0.7787
Std Dev 4.629

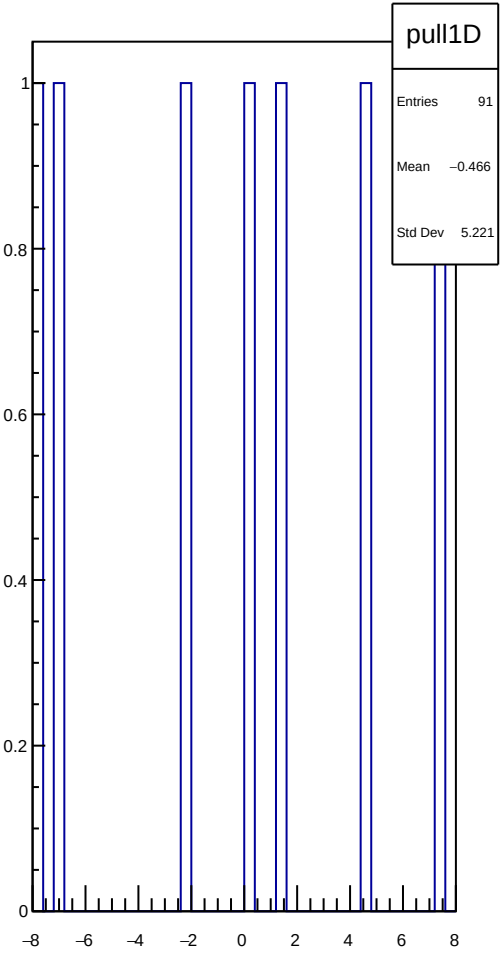

yield_bpm12X_rms vs run
χ² / ndf 7.066e+04 / 90
p0 0.08629 ± 6.662e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

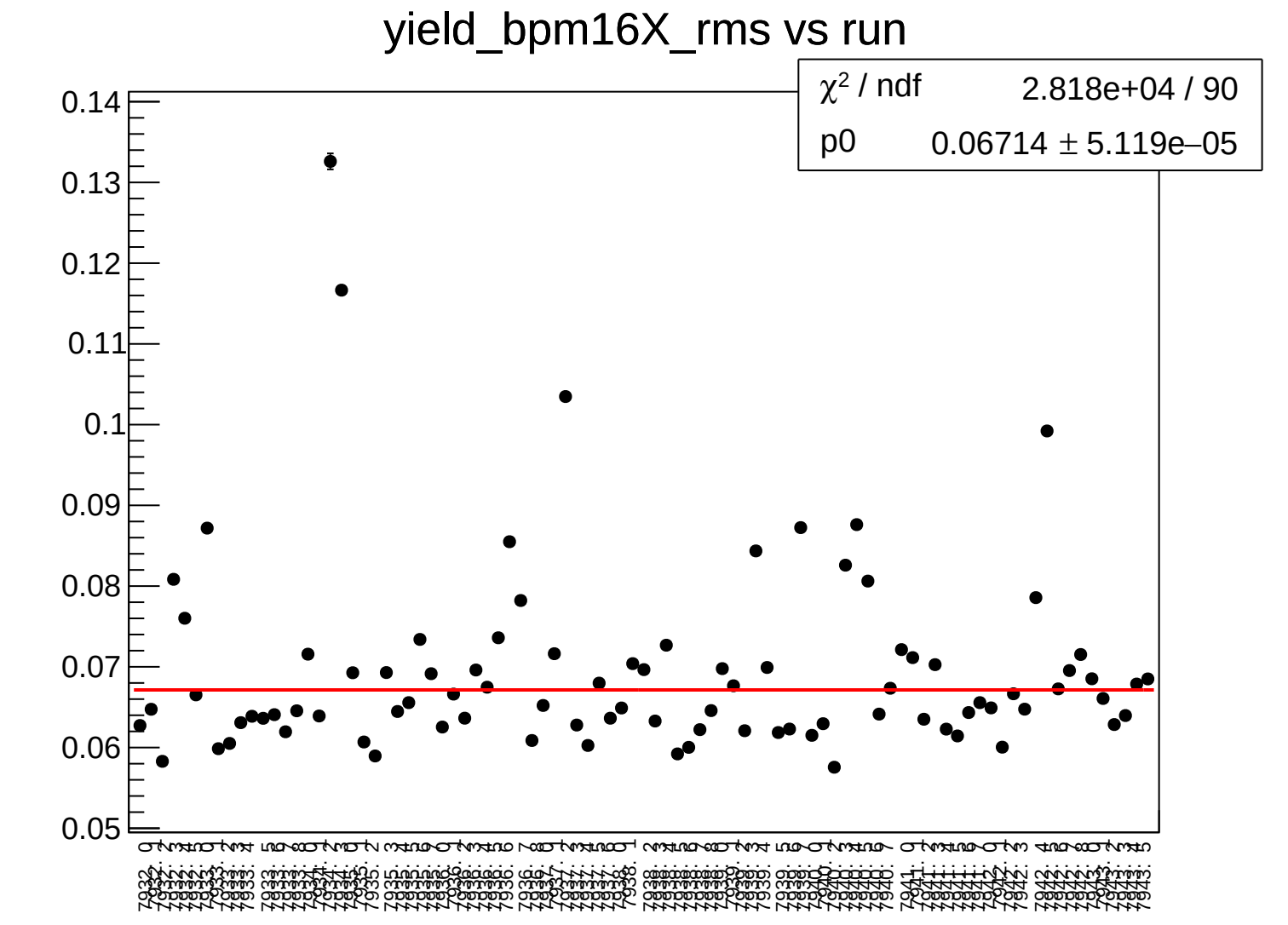

yield_bpm12Y_mean vs run
χ² / ndf 8.107e+05 / 90
p0 1.485 ± 9.276e−06
1.505
1.5
1.495
1.49
1.485
1.48
1.475
1.47
1.465
pull
Entries 91
Mean −585.1
Std Dev 0
300
200
100
0
−100
−200

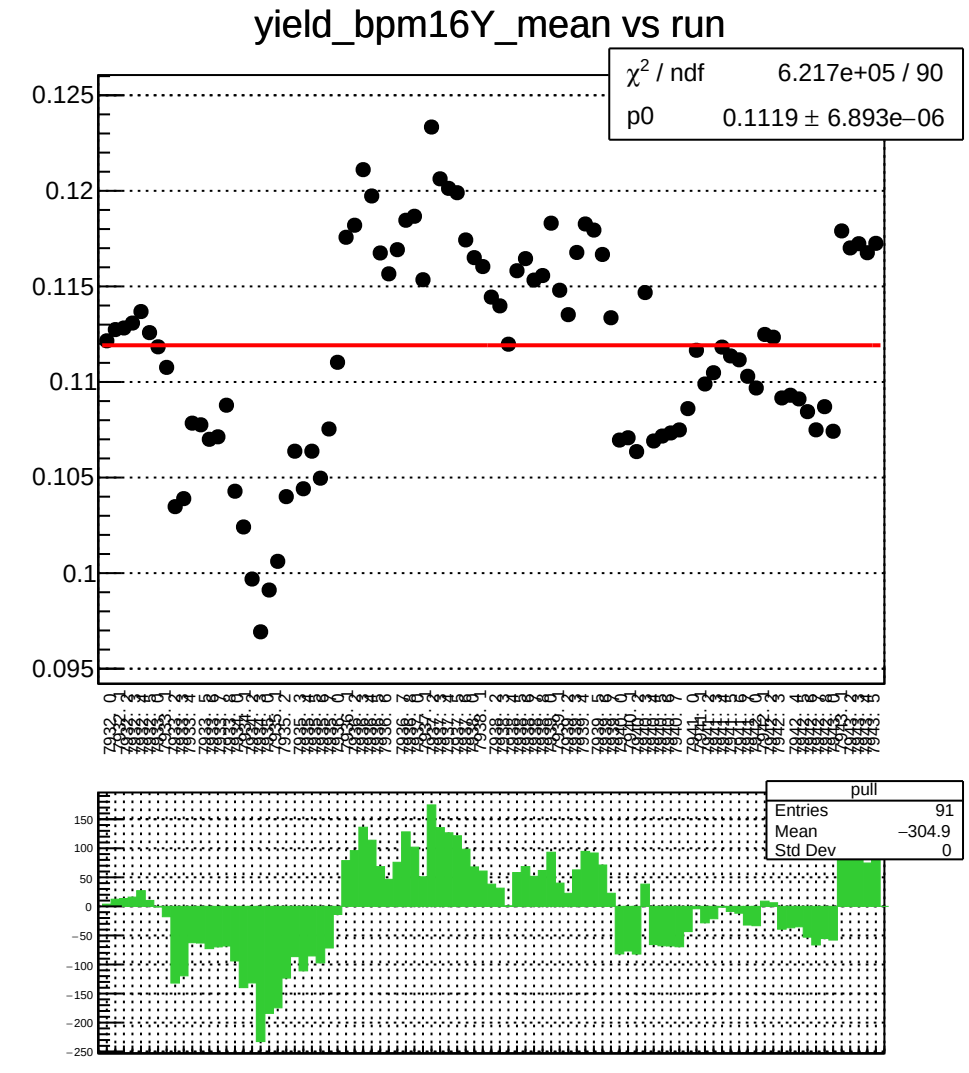

pull1D
Entries 91
Mean 0.8533
Std Dev 3.53
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

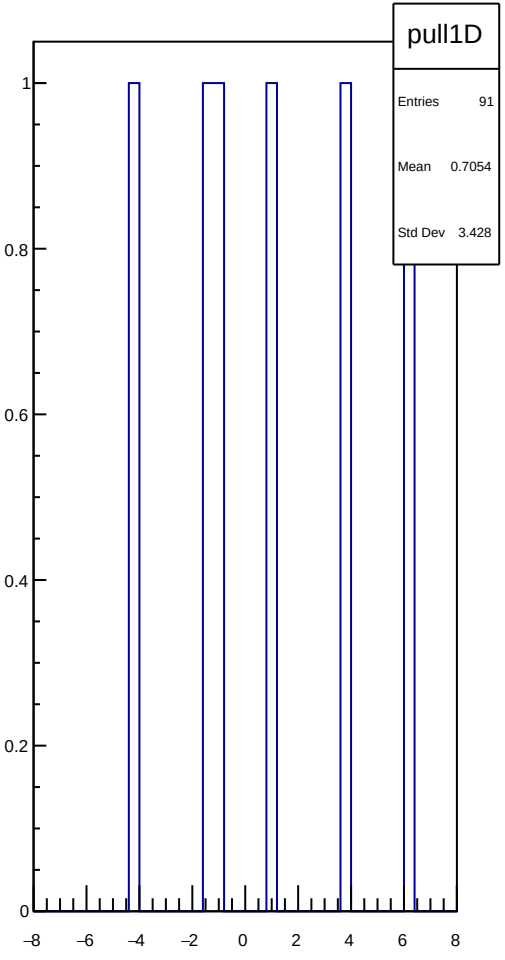

yield_bpm12Y_rms vs run
χ² / ndf 1.67e+04 / 90
p0 0.008631 ± 6.559e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

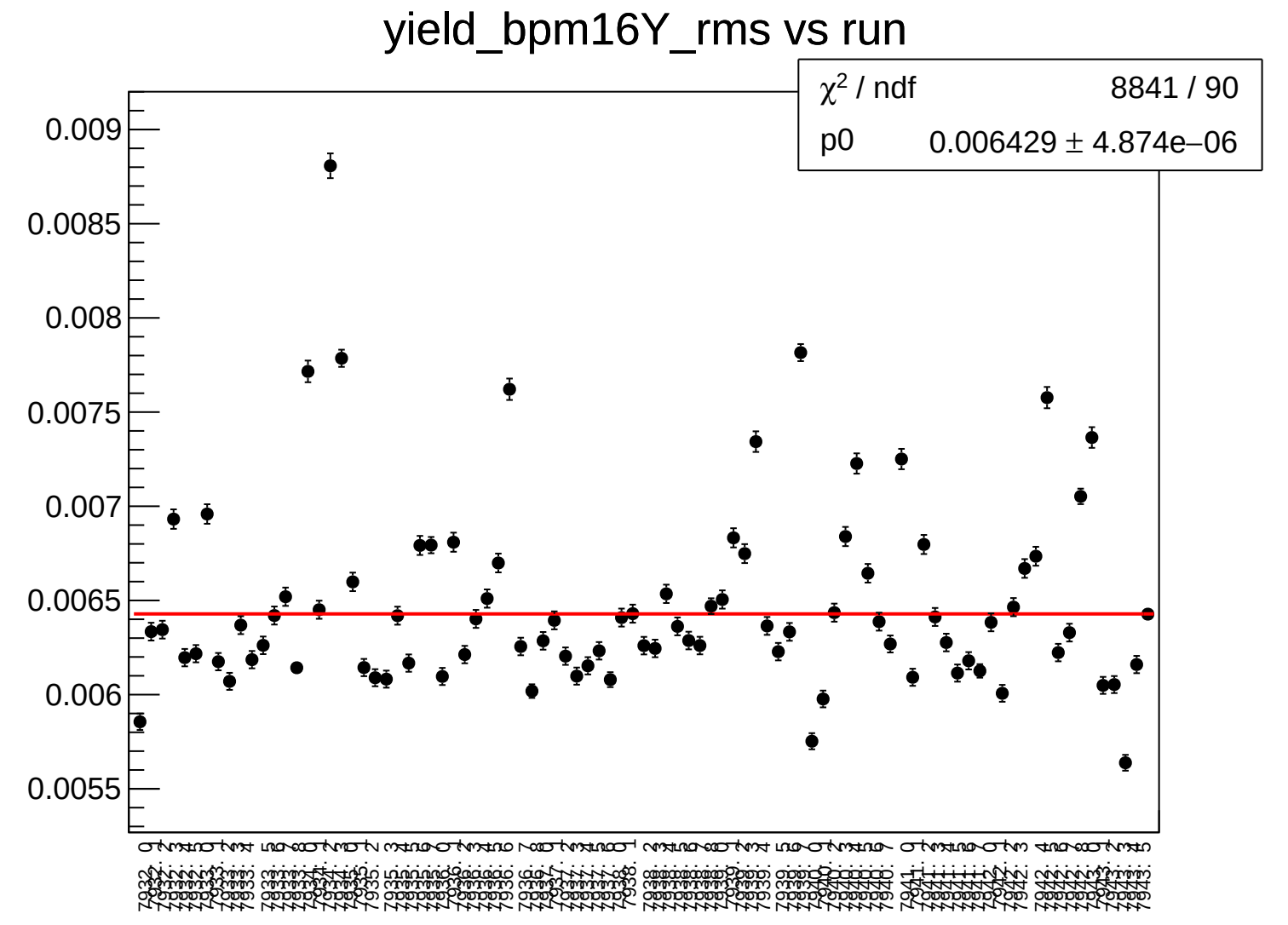

yield_bpm16X_mean vs run
χ² / ndf 6.072e+05 / 90
p0 −1.127 ± 7.24e−05
−1
−1.05
−1.1
−1.15
−1.2
pull
Entries 91
Mean −1981
Std Dev 0
150
100
50
0
−50
−100
−150

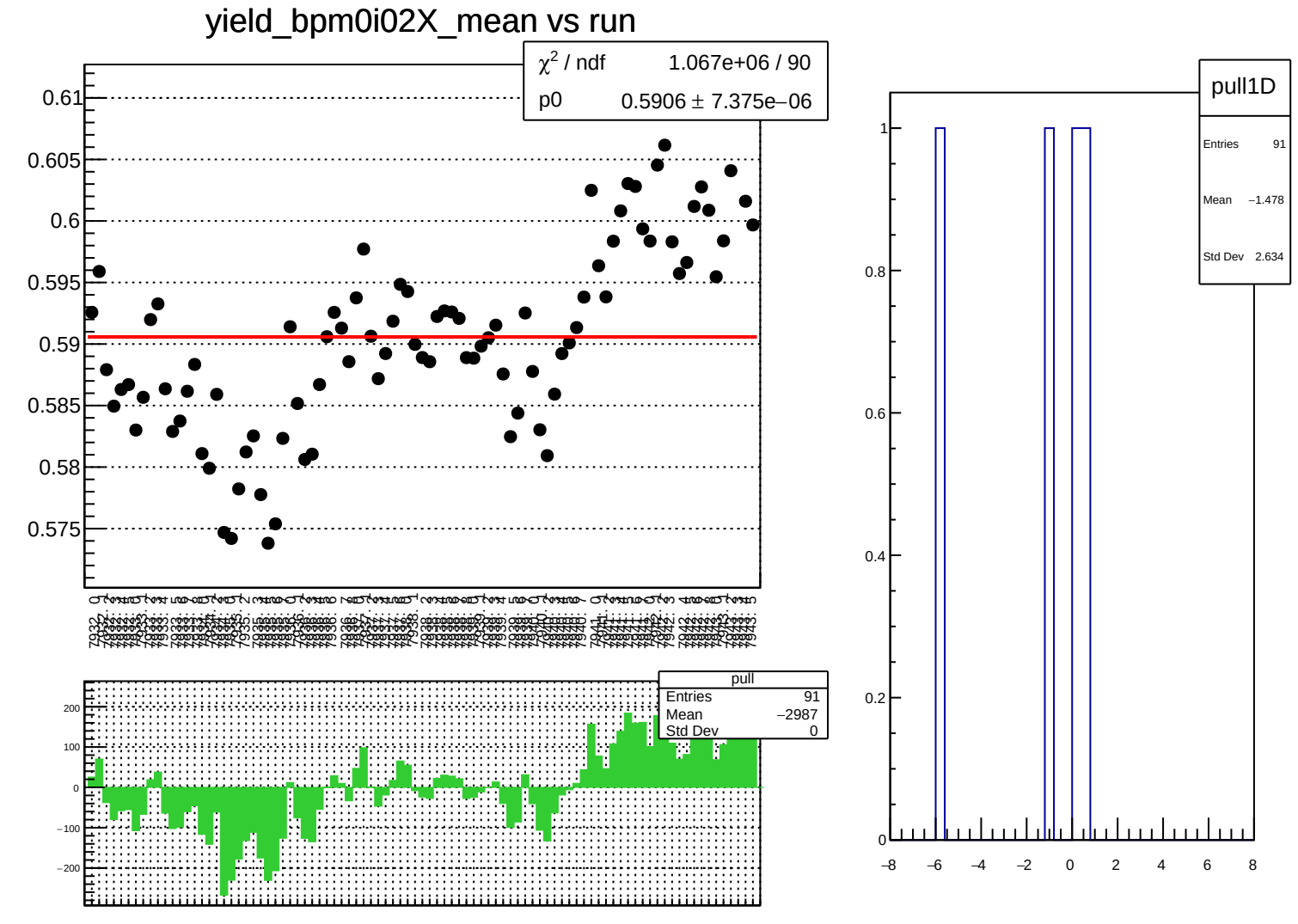

pull1D
Entries 91
Mean −0.466
Std Dev 5.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

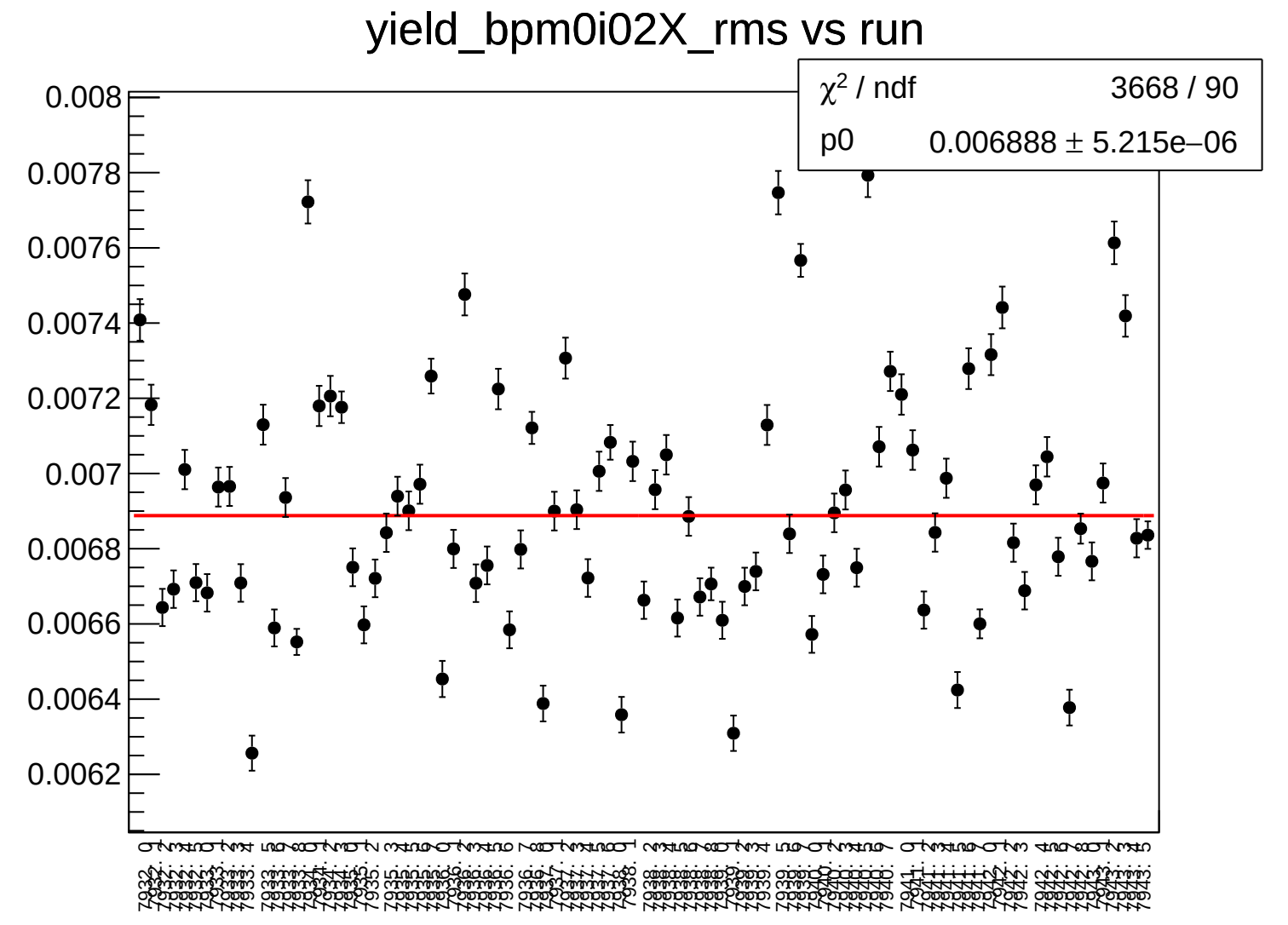

yield_bpm16X_rms vs run
χ² / ndf 2.818e+04 / 90
p0 0.06714 ± 5.119e−05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05

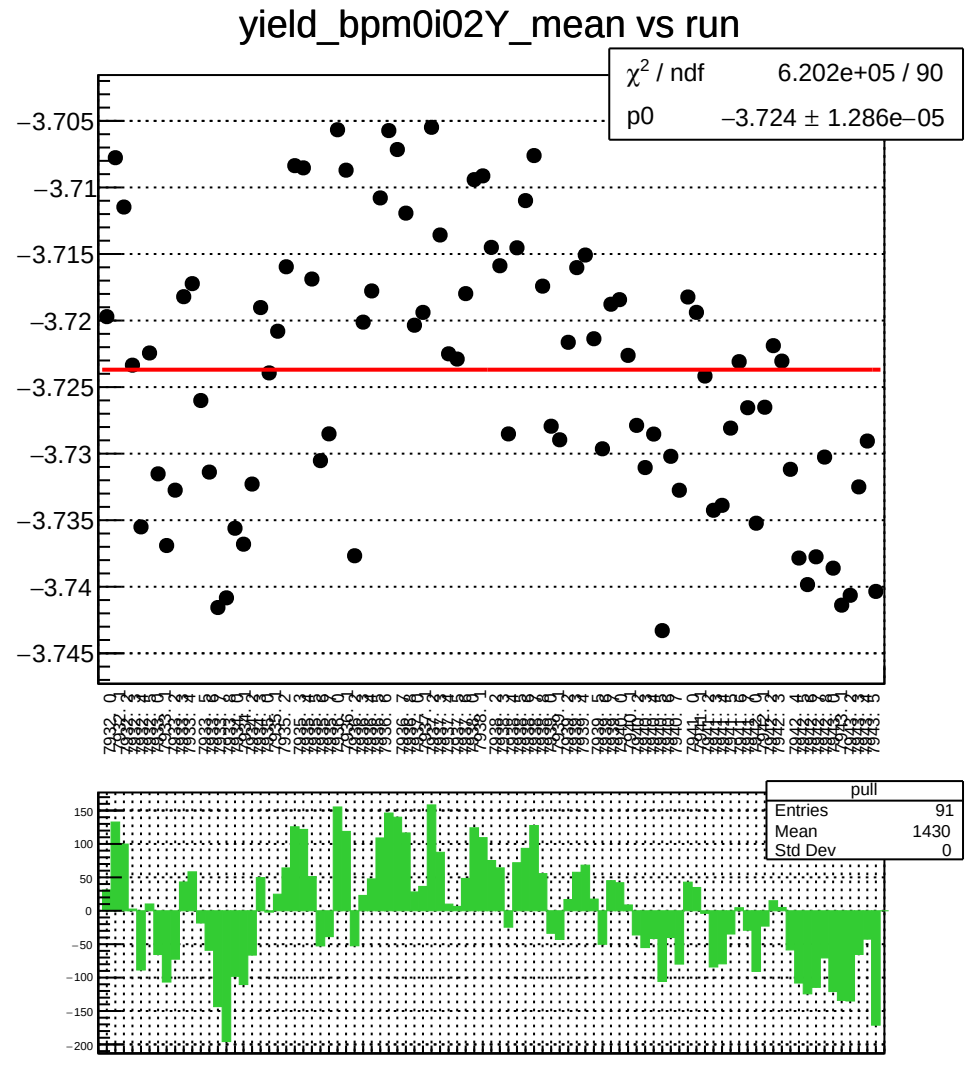

yield_bpm16Y_mean vs run
χ² / ndf 6.217e+05 / 90
p0 0.1119 ± 6.893e−06
pull
Entries 91
Mean −304.9
Std Dev 0

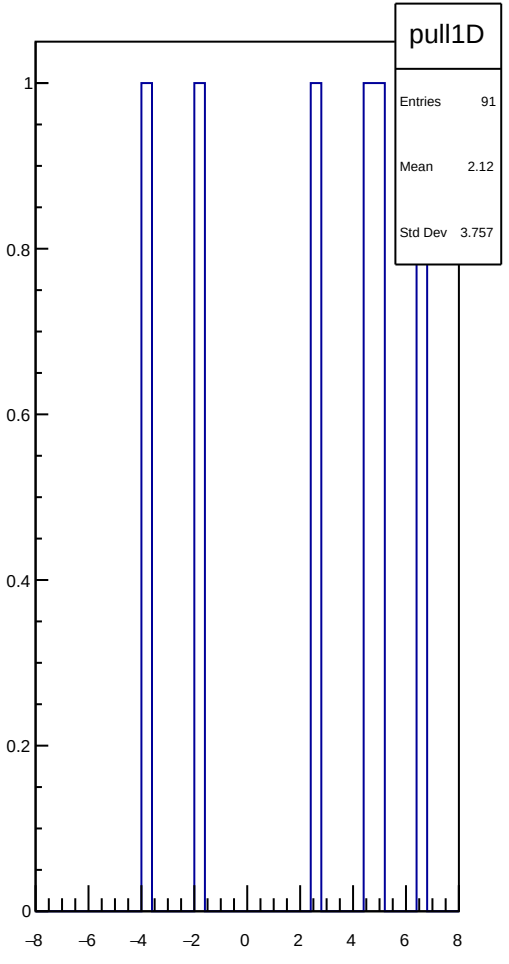

pull1D
Entries 91
Mean 0.7054
Std Dev 3.428

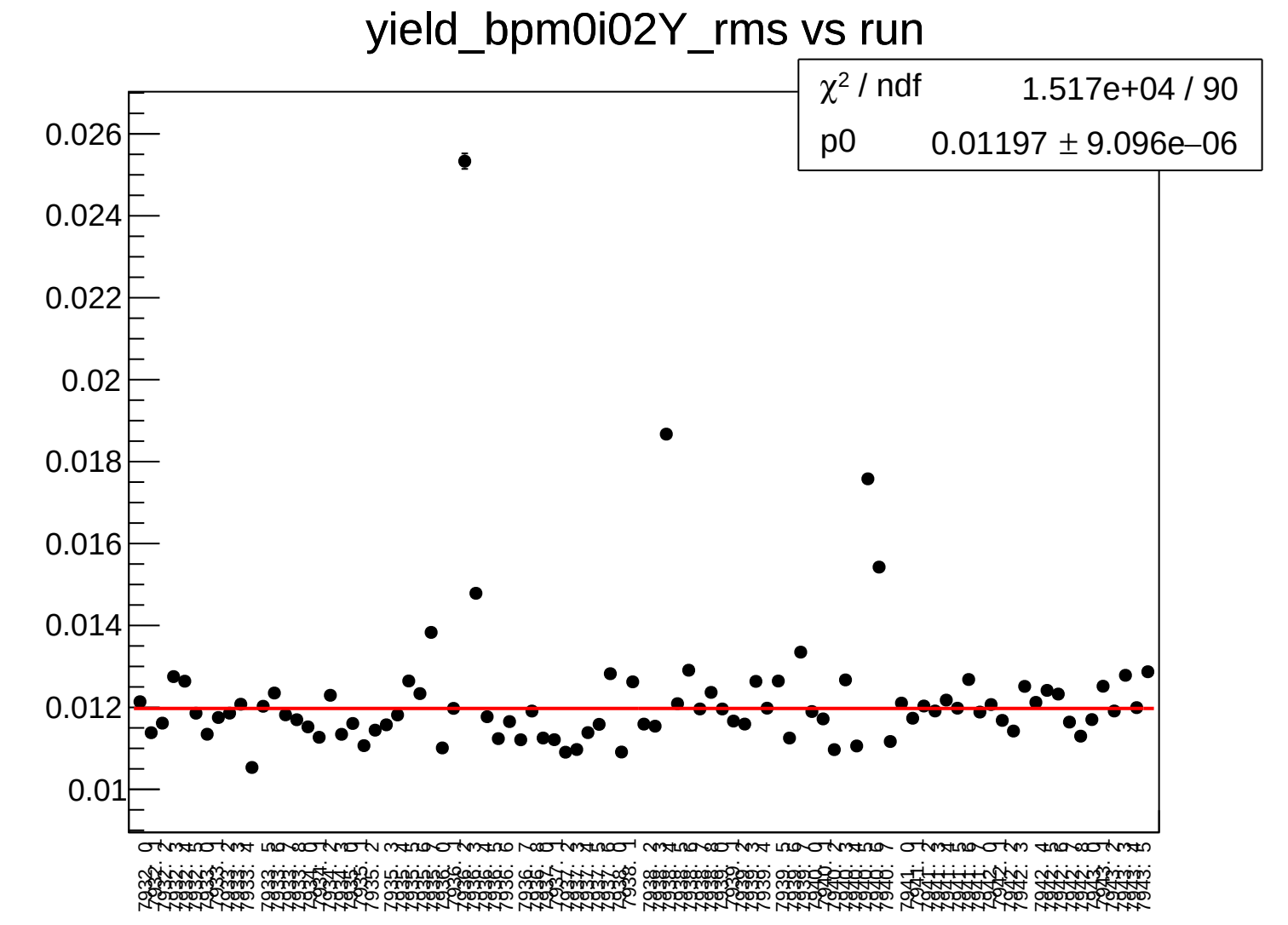

yield_bpm16Y_rms vs run
χ² / ndf 8841 / 90
p0 0.006429 ± 4.874e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

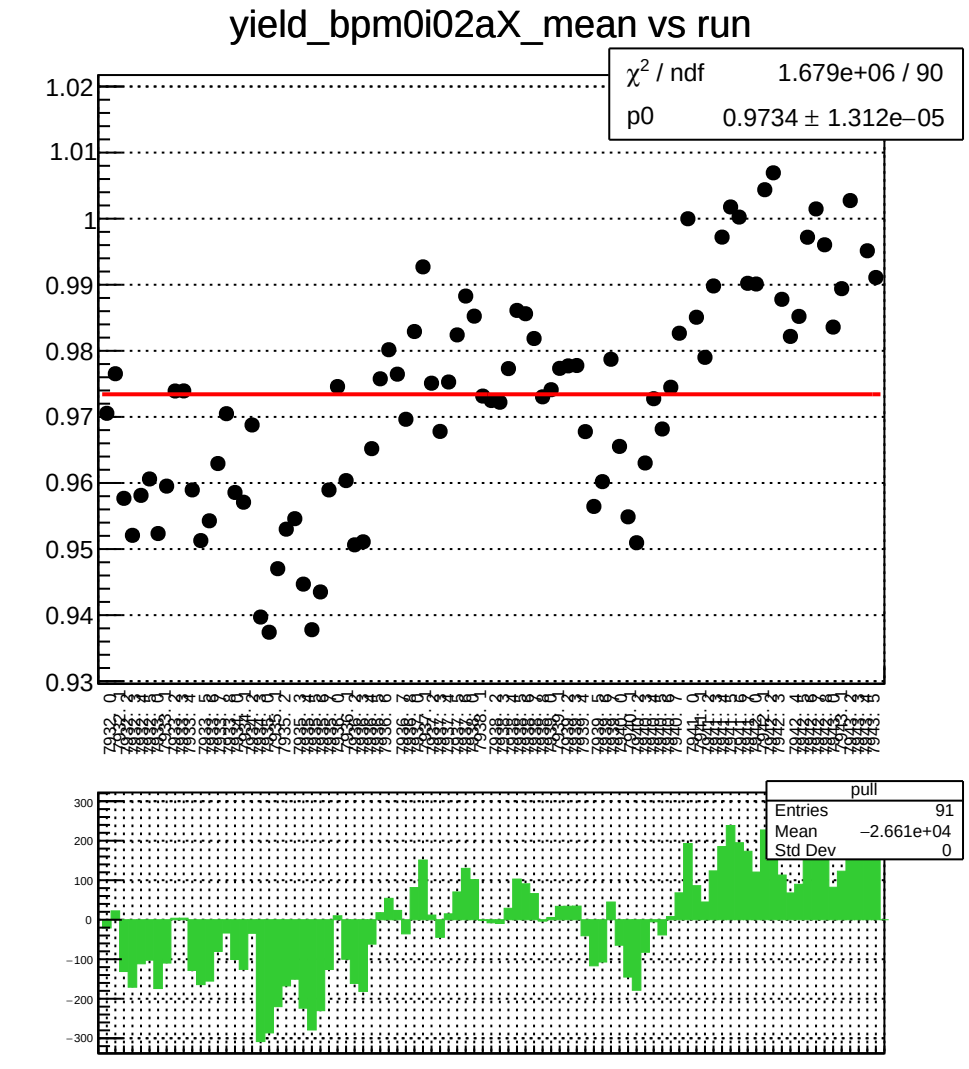

yield_bpm0i02X_mean vs run
χ² / ndf 1.067e+06 / 90
p0 0.5906 ± 7.375e−06
0.61
0.605
0.6
0.595
0.59
0.585
0.58
0.575
pull
Entries 91
Mean −2987
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 91
Mean −1.478
Std Dev 2.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

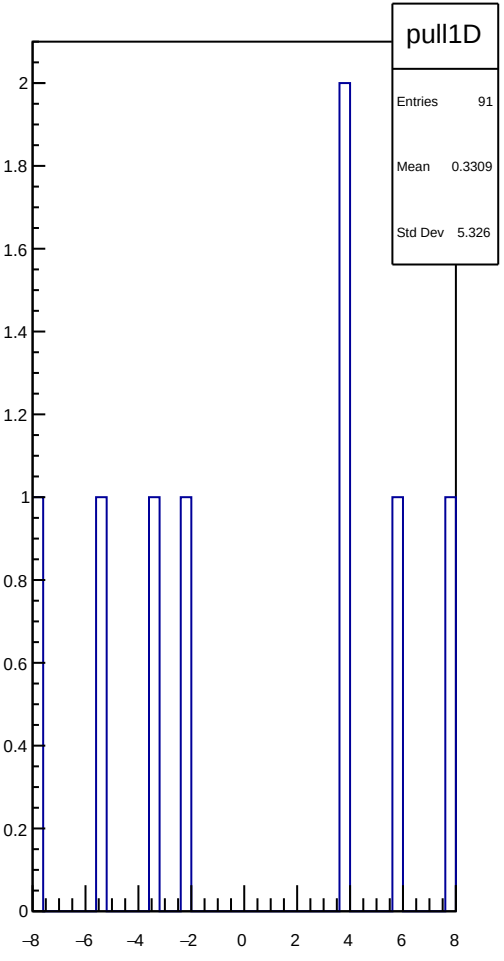

yield_bpm0i02X_rms vs run
χ² / ndf 3668 / 90
p0 0.006888 ± 5.215e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

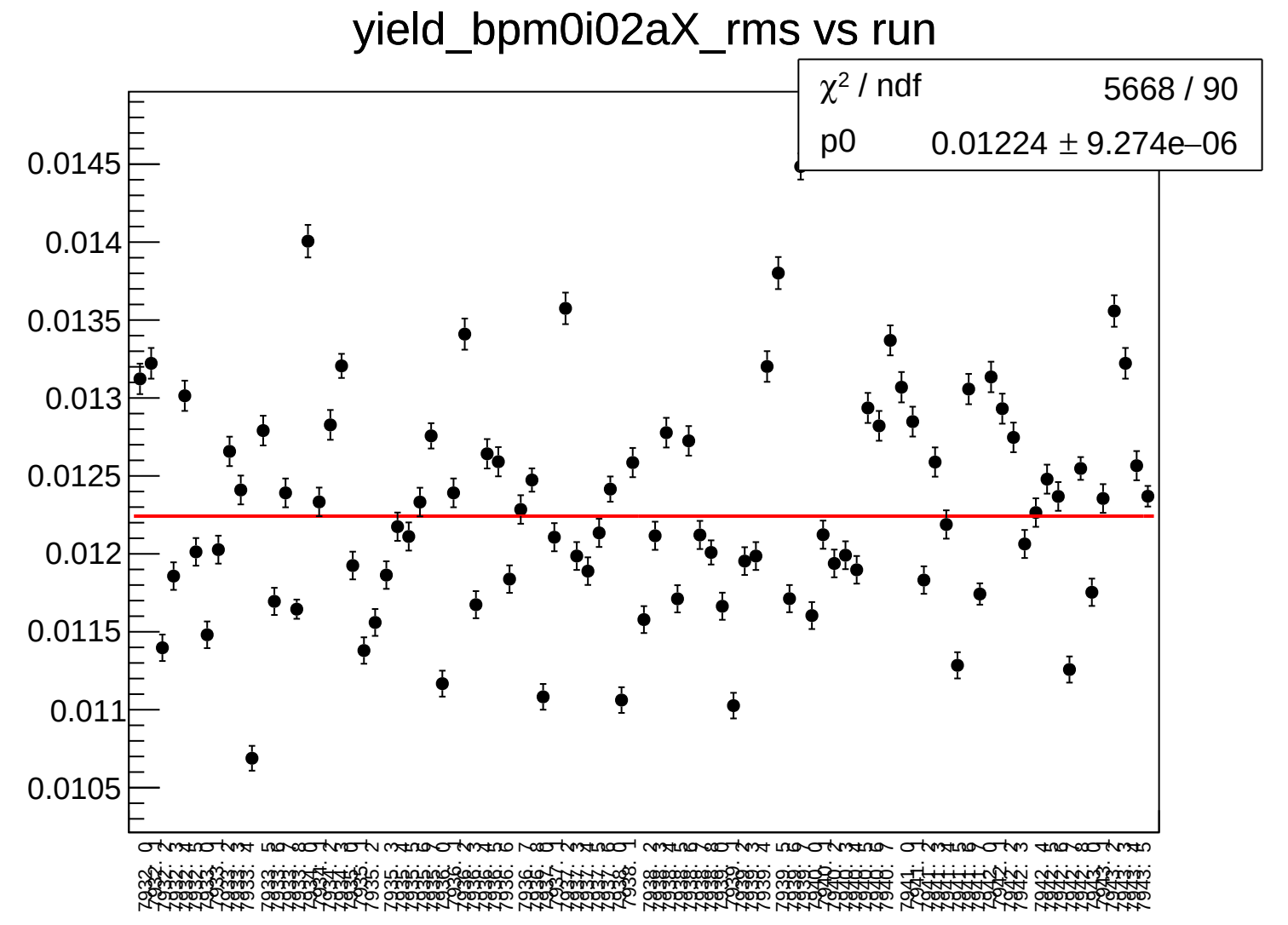

yield_bpm0i02Y_mean vs run
χ² / ndf 6.202e+05 / 90
p0 −3.724 ± 1.286e−05
−3.705
−3.71
−3.715
−3.72
−3.725
−3.73
−3.735
−3.74
−3.745
pull
Entries 91
Mean 1430
Std Dev 0
150
100
50
0
−50
−100
−150
−200

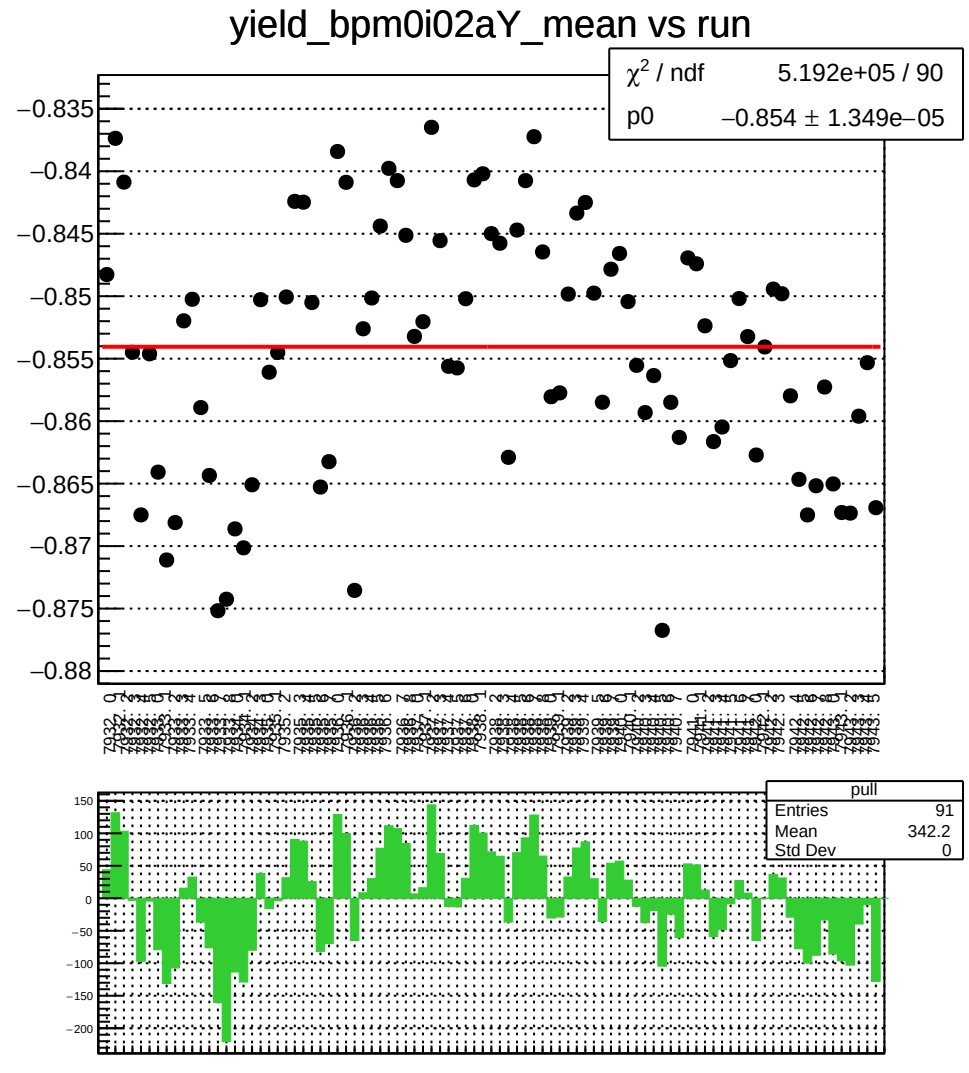

pull1D
Entries 91
Mean 2.12
Std Dev 3.757
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

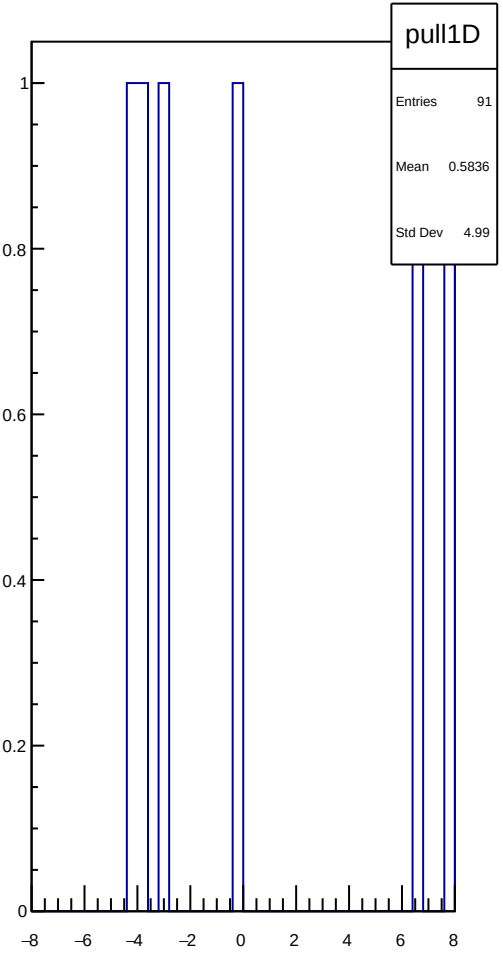

yield_bpm0i02Y_rms vs run
χ² / ndf 1.517e+04 / 90
p0 0.01197 ± 9.096e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

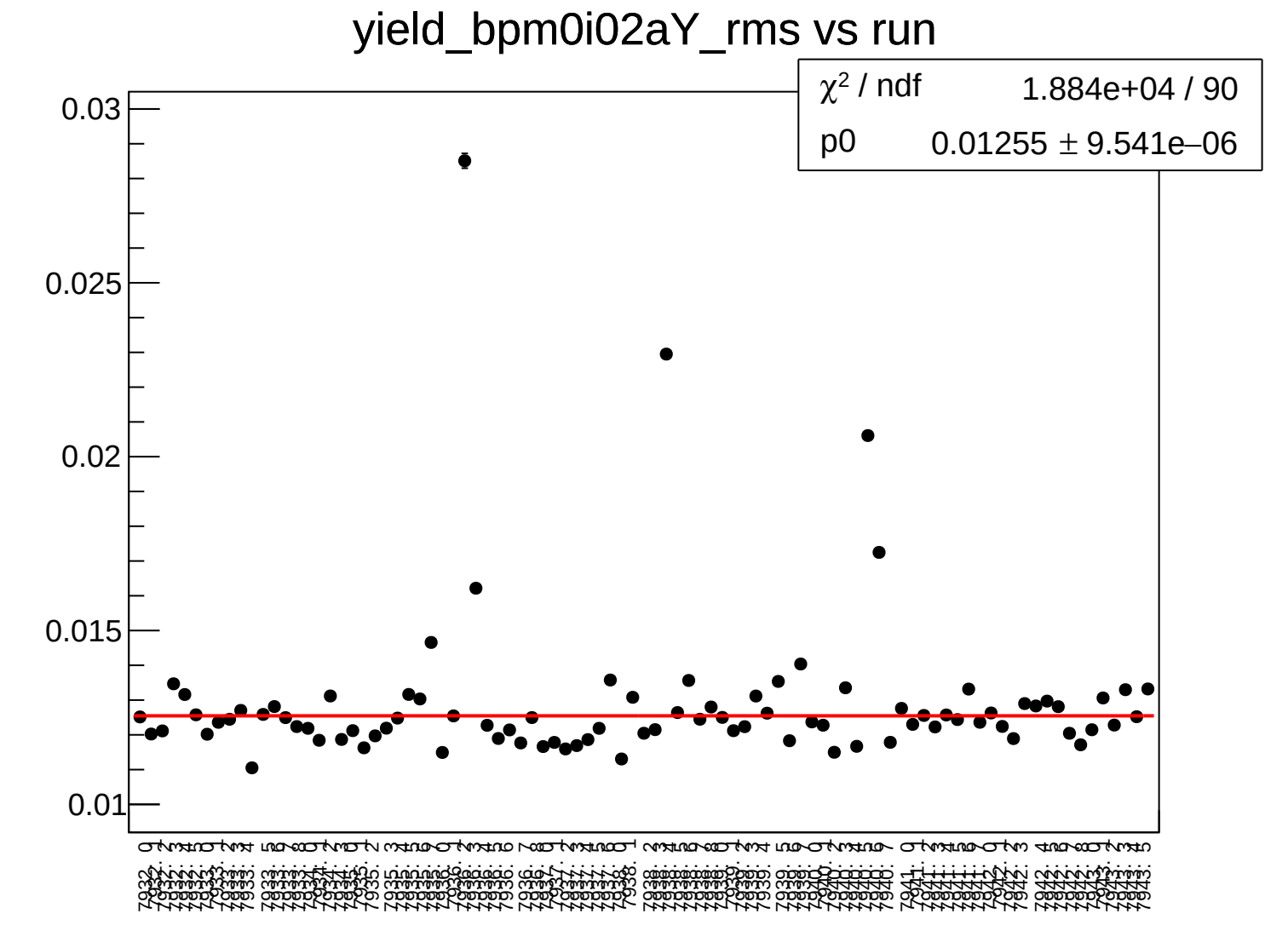

yield_bpm0i02aX_mean vs run
χ² / ndf 1.679e+06 / 90
p0 0.9734 ± 1.312e−05
pull
Entries 91
Mean −2.661e+04
Std Dev 0

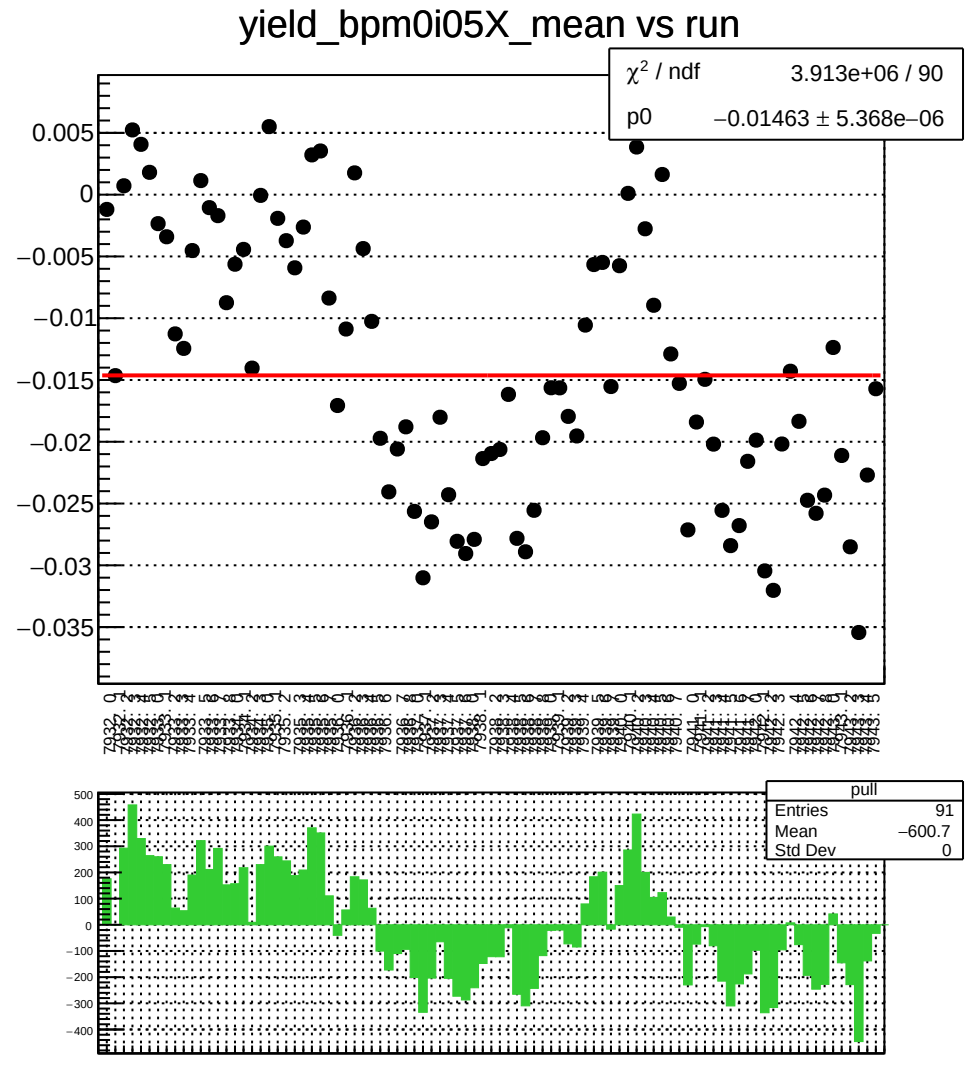

pull1D
Entries 91
Mean 0.3309
Std Dev 5.326

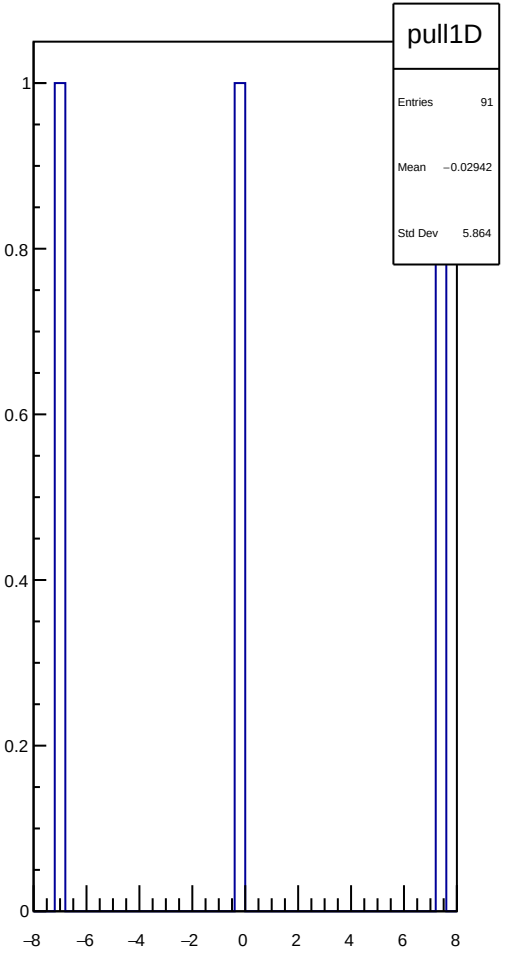

yield_bpm0i02aX_rms vs run
χ² / ndf 5668 / 90
p0 0.01224 ± 9.274e–06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

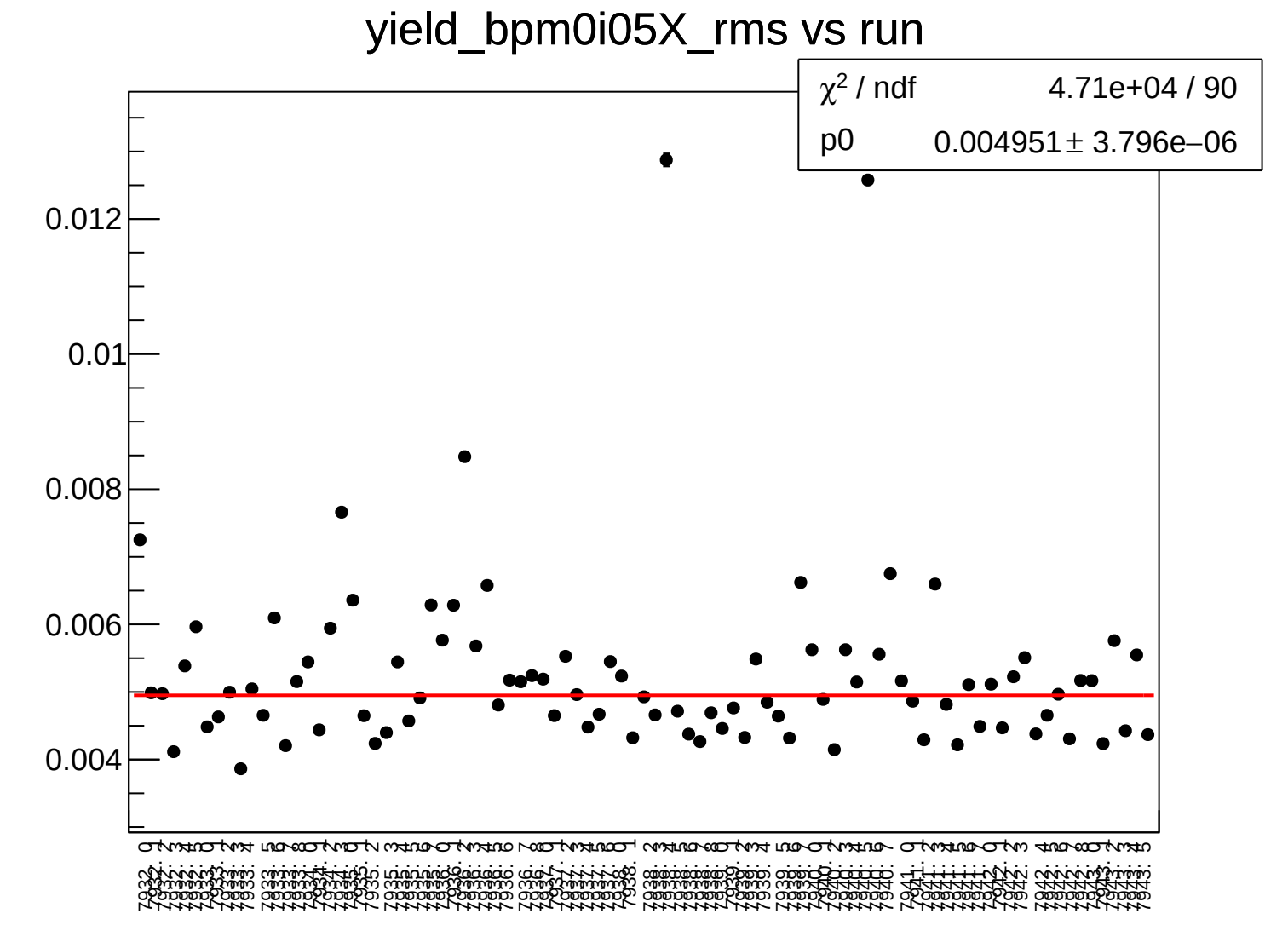

yield_bpm0i02aY_mean vs run
χ² / ndf 5.192e+05 / 90
p0 −0.854 ± 1.349e−05
−0.835
−0.84
−0.845
−0.85
−0.855
−0.86
−0.865
−0.87
−0.875
−0.88
pull
Entries 91
Mean 342.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200

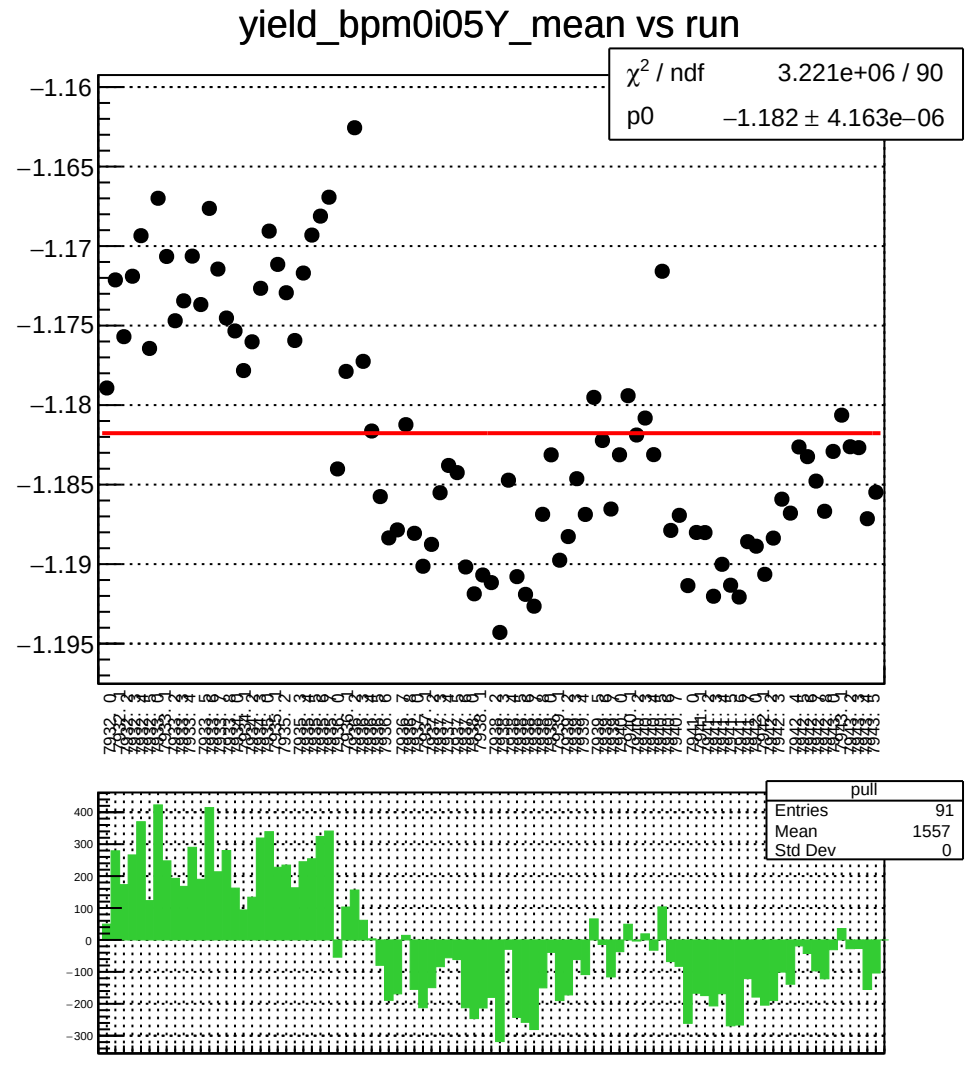

pull1D
Entries 91
Mean 0.5836
Std Dev 4.99
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

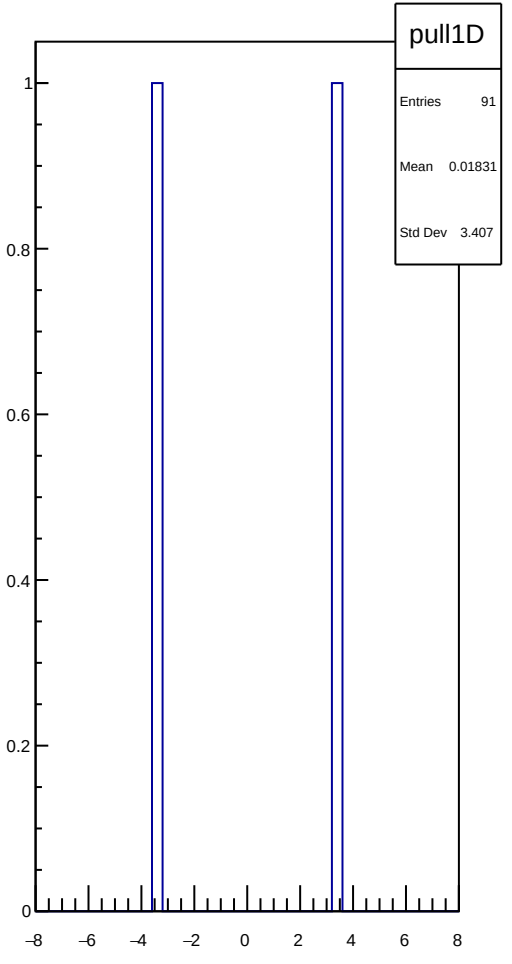

yield_bpm0i02aY_rms vs run
χ² / ndf 1.884e+04 / 90
p0 0.01255 ± 9.541e–06
0.03
0.025
0.02
0.015
0.01

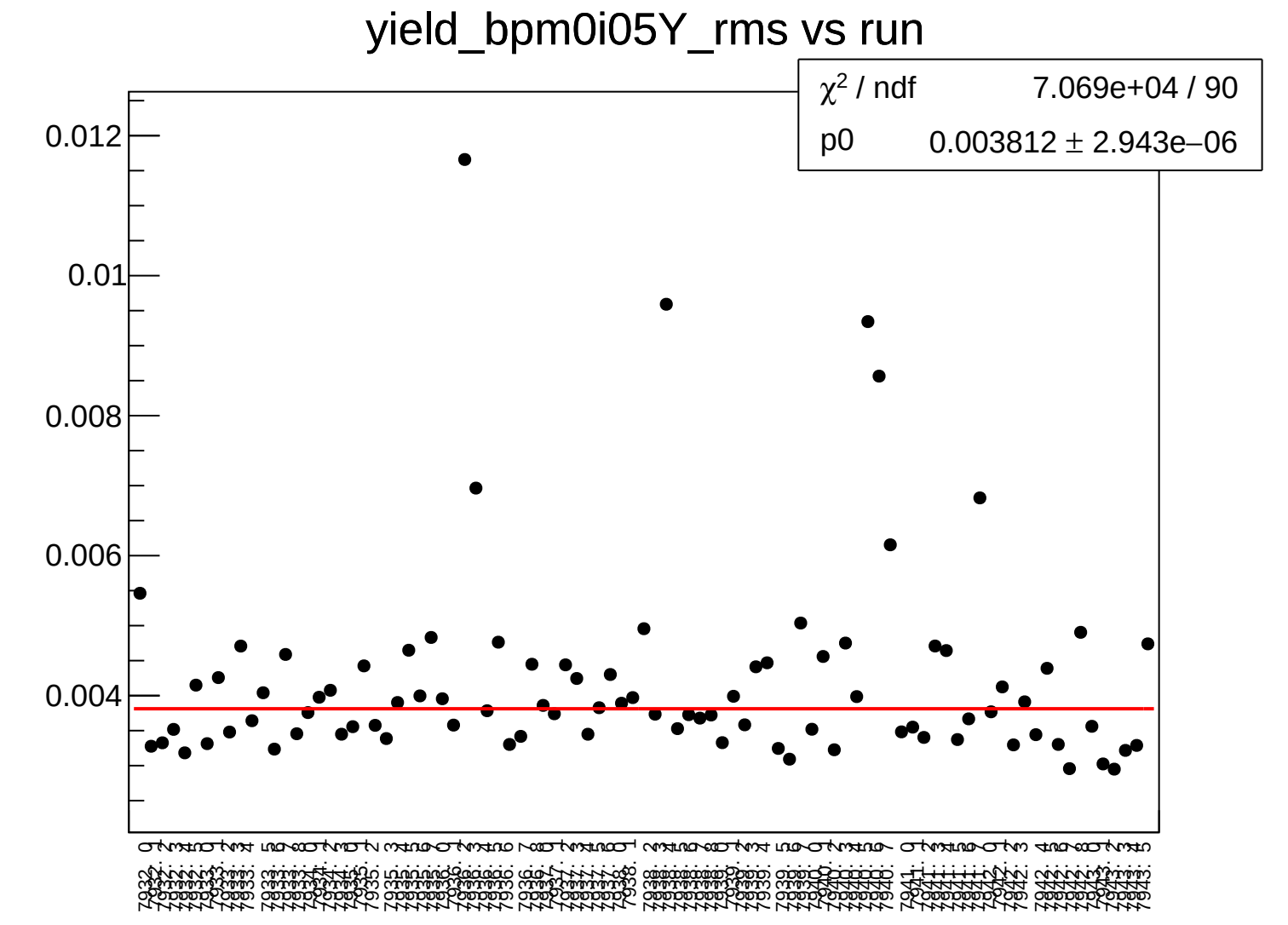

yield_bpm0i05X_mean vs run
χ² / ndf 3.913e+06 / 90
p0 −0.01463 ± 5.368e−06
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
−0.035
pull
Entries 91
Mean −600.7
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

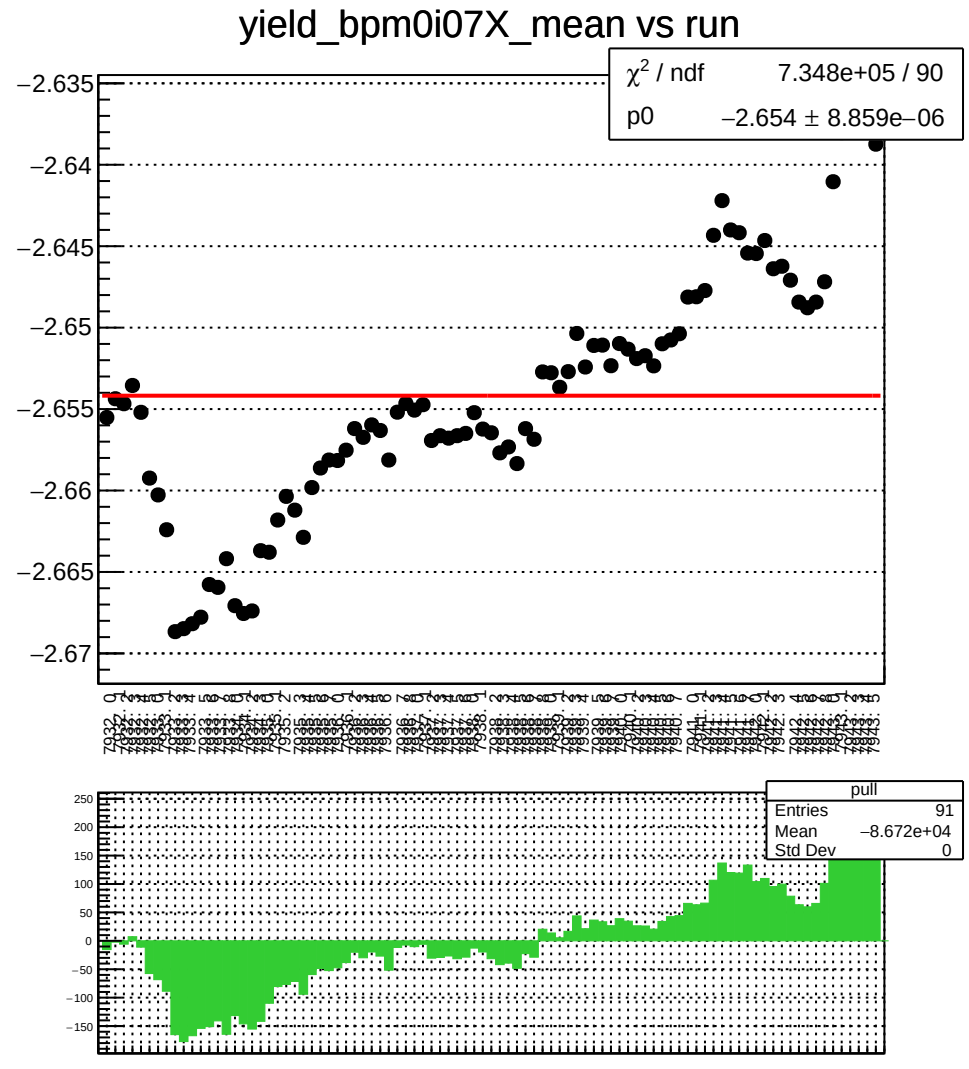

pull1D
Entries 91
Mean −0.02942
Std Dev 5.864
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

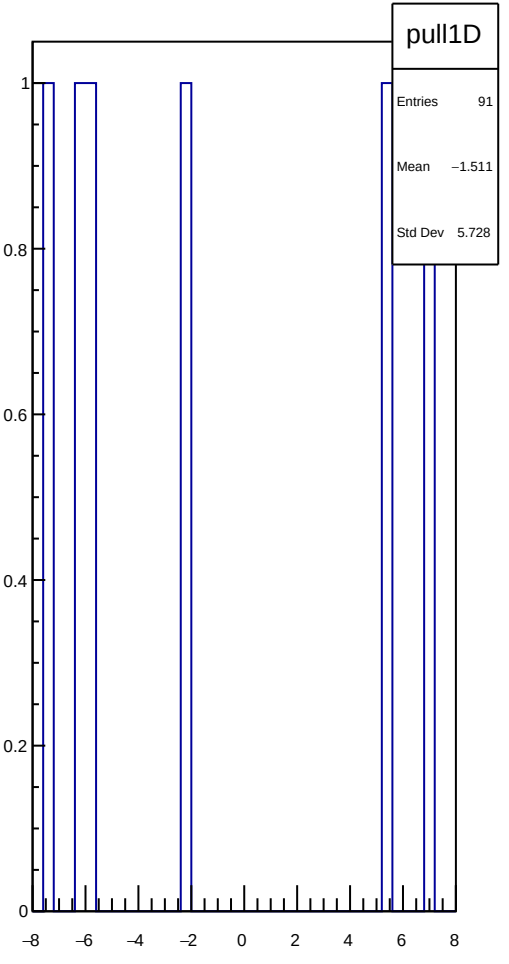

yield_bpm0i05X_rms vs run
χ² / ndf 4.71e+04 / 90
p0 0.004951 ± 3.796e−06
0.012
0.01
0.008
0.006
0.004

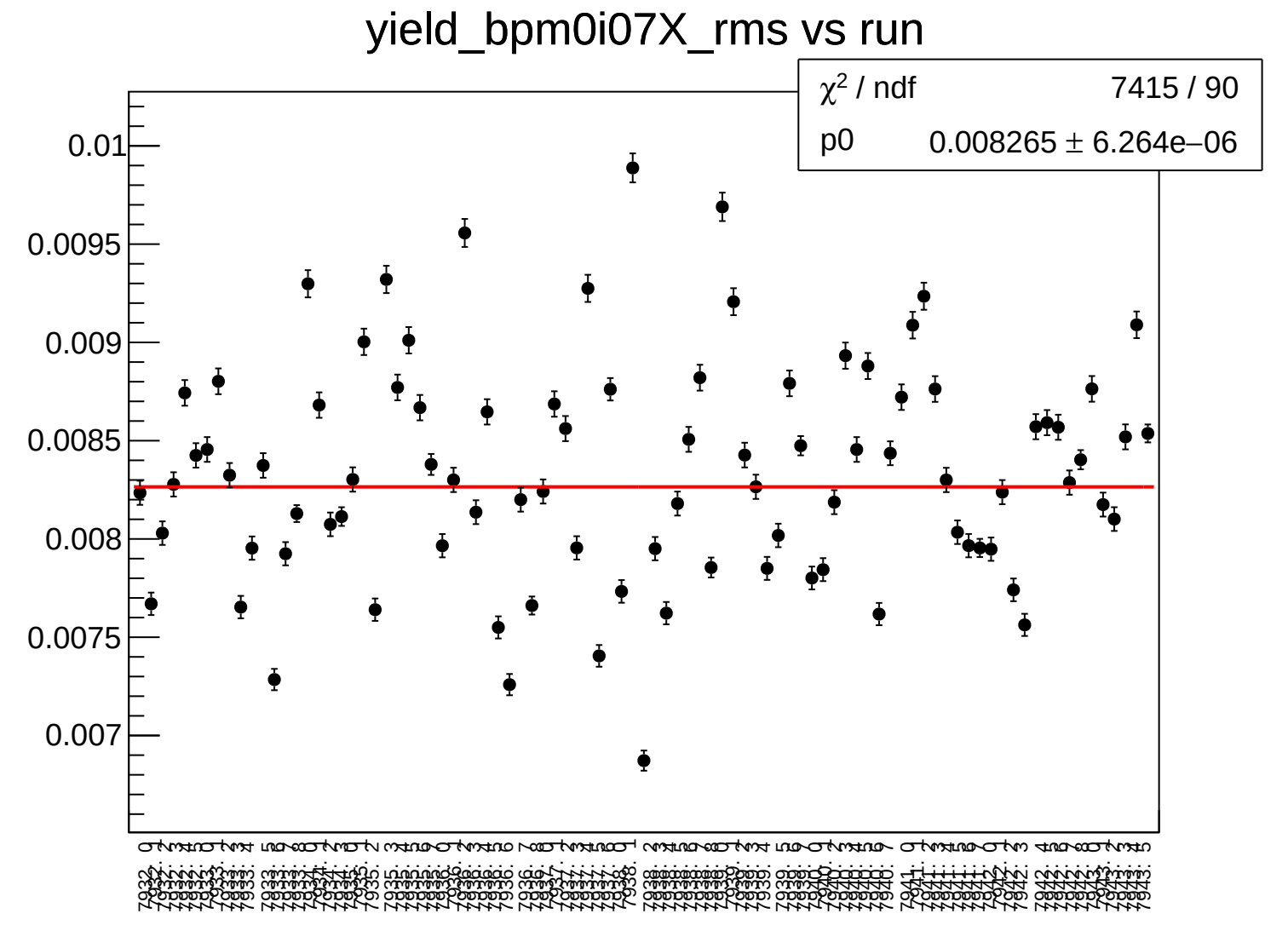

yield_bpm0i05Y_mean vs run
χ² / ndf 3.221e+06 / 90
p0 −1.182 ± 4.163e−06
−1.16
−1.165
−1.17
−1.175
−1.18
−1.185
−1.19
−1.195
pull
Entries 91
Mean 1557
Std Dev 0
400
300
200
100
0
−100
−200
−300

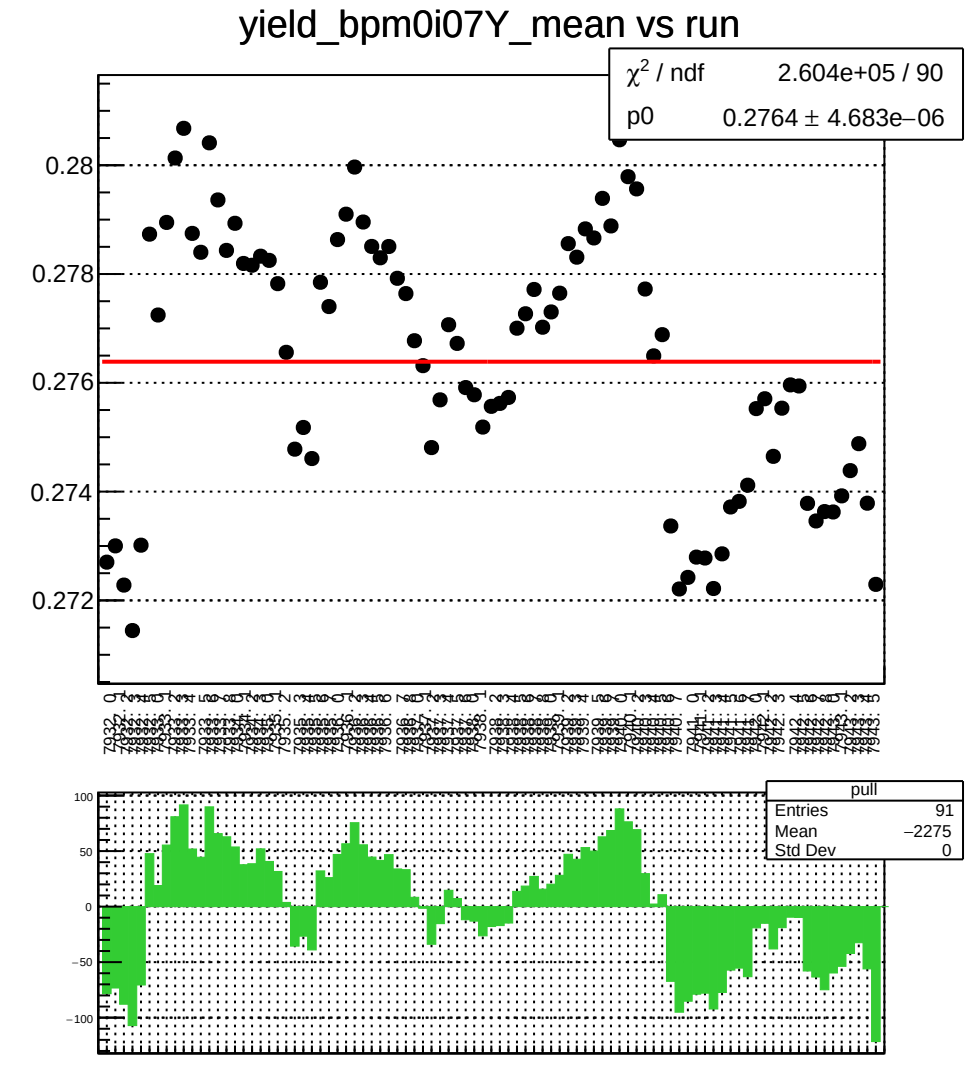

pull1D
Entries 91
Mean 0.01831
Std Dev 3.407
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

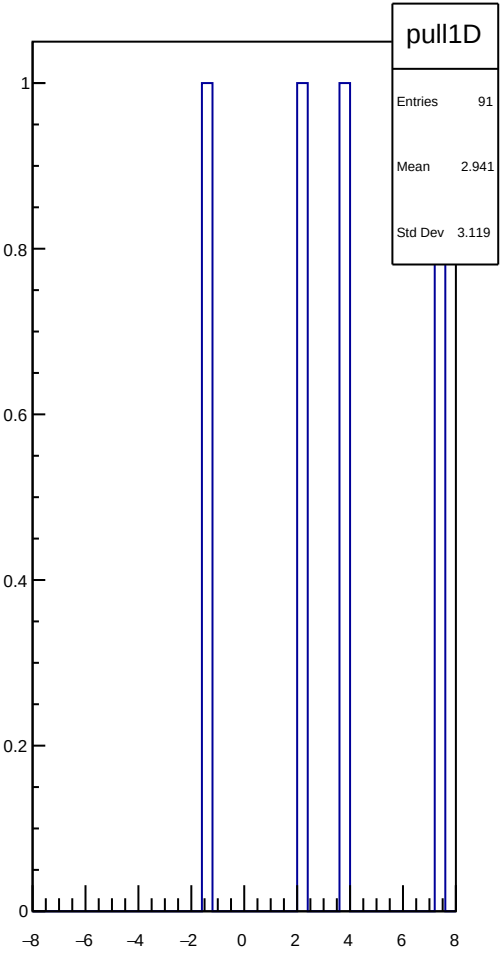

yield_bpm0i05Y_rms vs run
χ^2 / ndf 7.069e+04 / 90
p0 0.003812 ± 2.943e−06
0.012
0.01
0.008
0.006
0.004

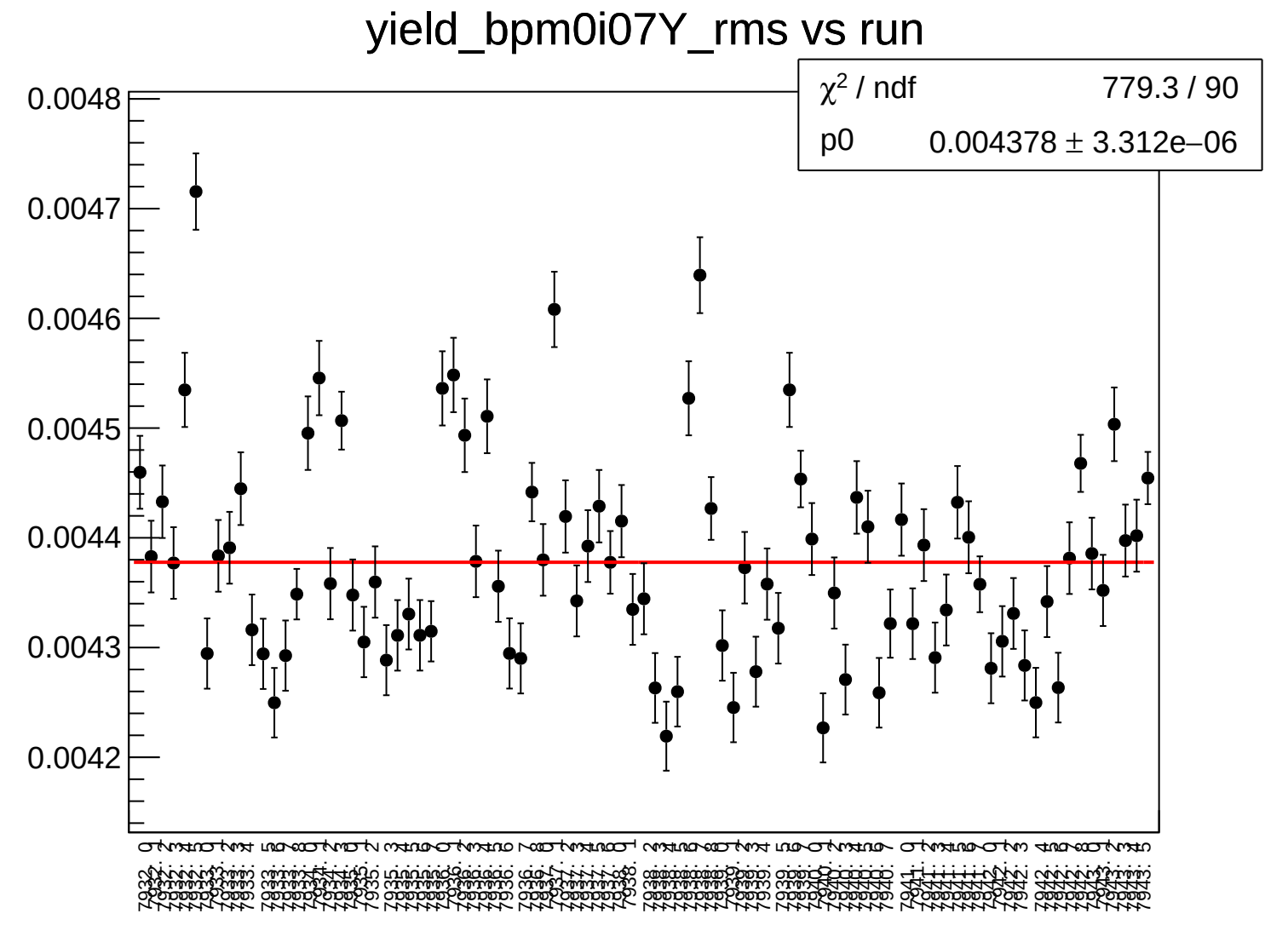

yield_bpm0i07X_mean vs run
χ² / ndf 7.348e+05 / 90
p0 −2.654 ± 8.859e−06
−2.635
−2.64
−2.645
−2.65
−2.655
−2.66
−2.665
−2.67
pull
Entries 91
Mean −8.672e+04
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

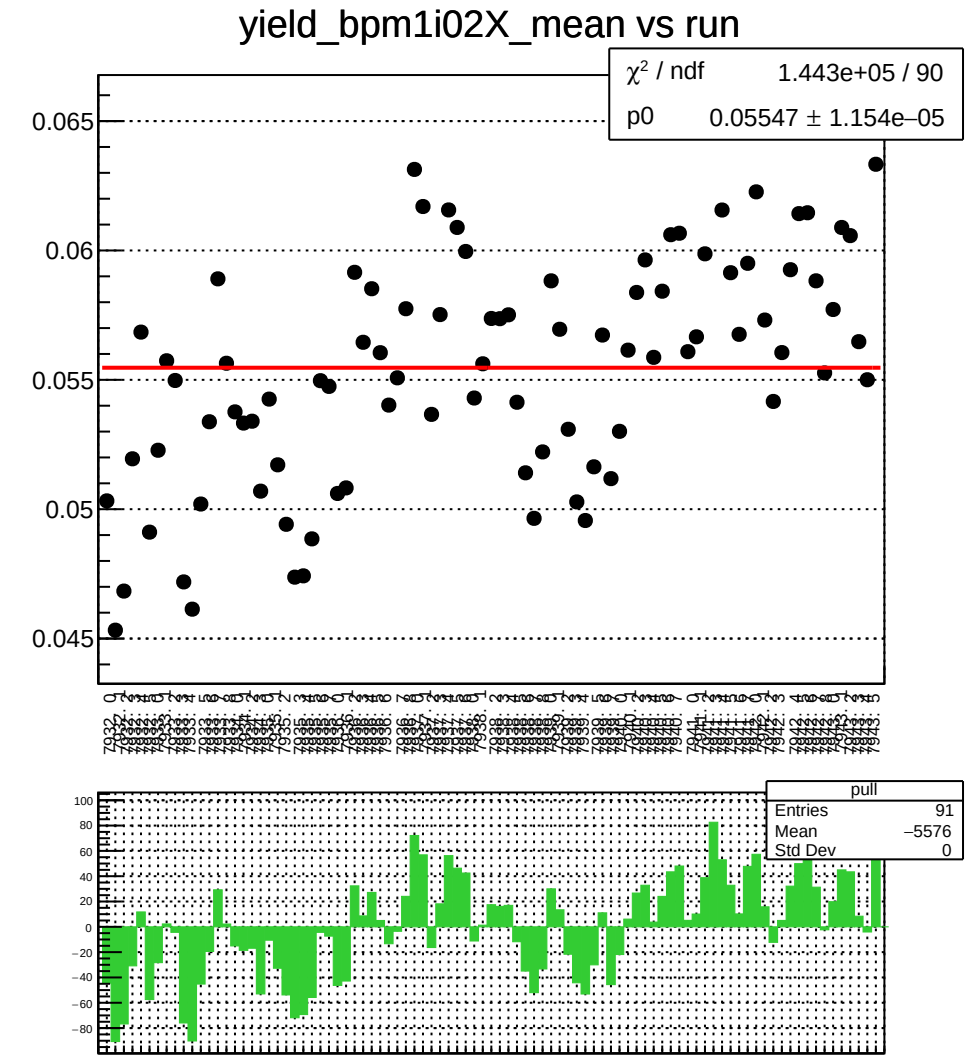

pull1D
Entries 91
Mean −1.511
Std Dev 5.728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

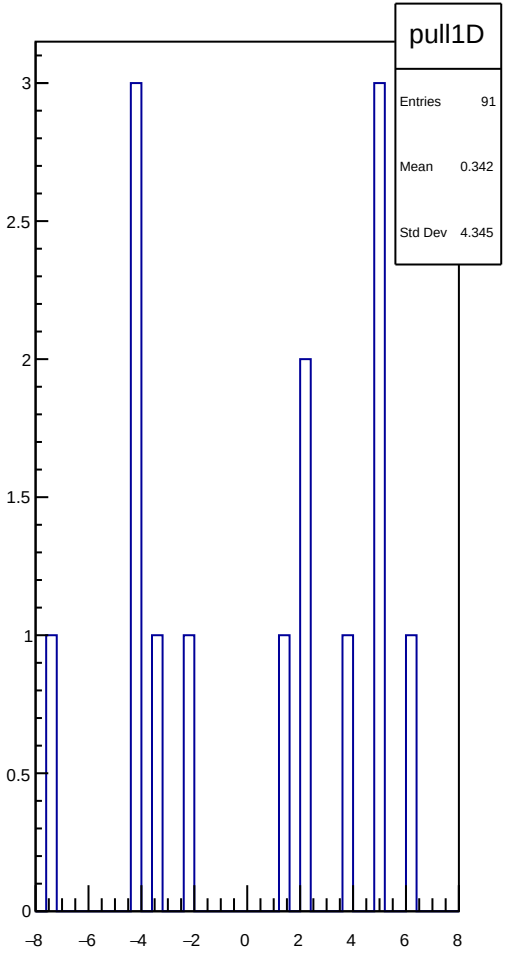

yield_bpm0i07X_rms vs run
χ² / ndf 7415 / 90
p0 0.008265 ± 6.264e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

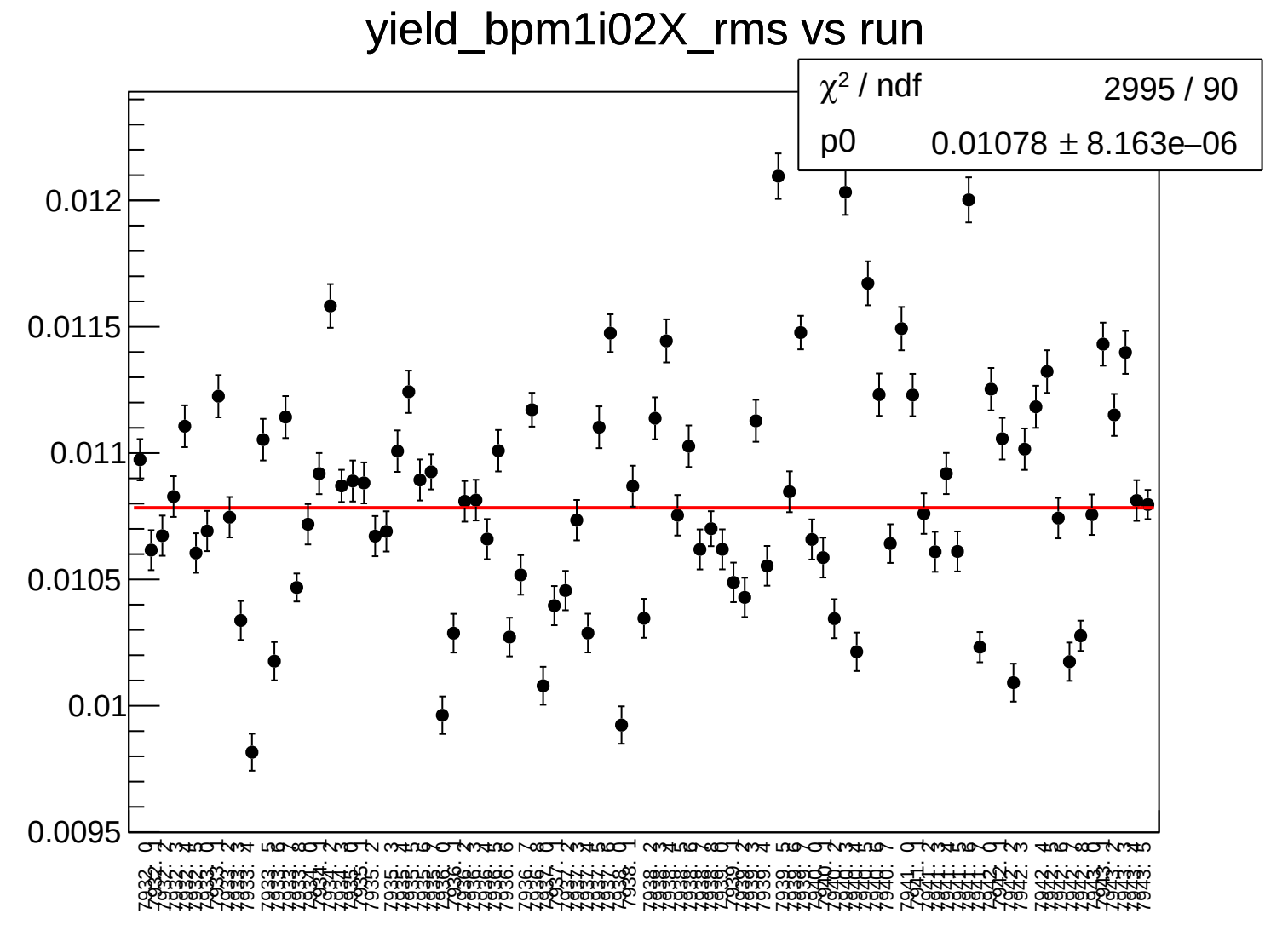

yield_bpm0i07Y_mean vs run
χ² / ndf 2.604e+05 / 90
p0 0.2764 ± 4.683e−06
0.28
0.278
0.276
0.274
0.272
pull
Entries 91
Mean −2275
Std Dev 0
100
50
0
−50
−100

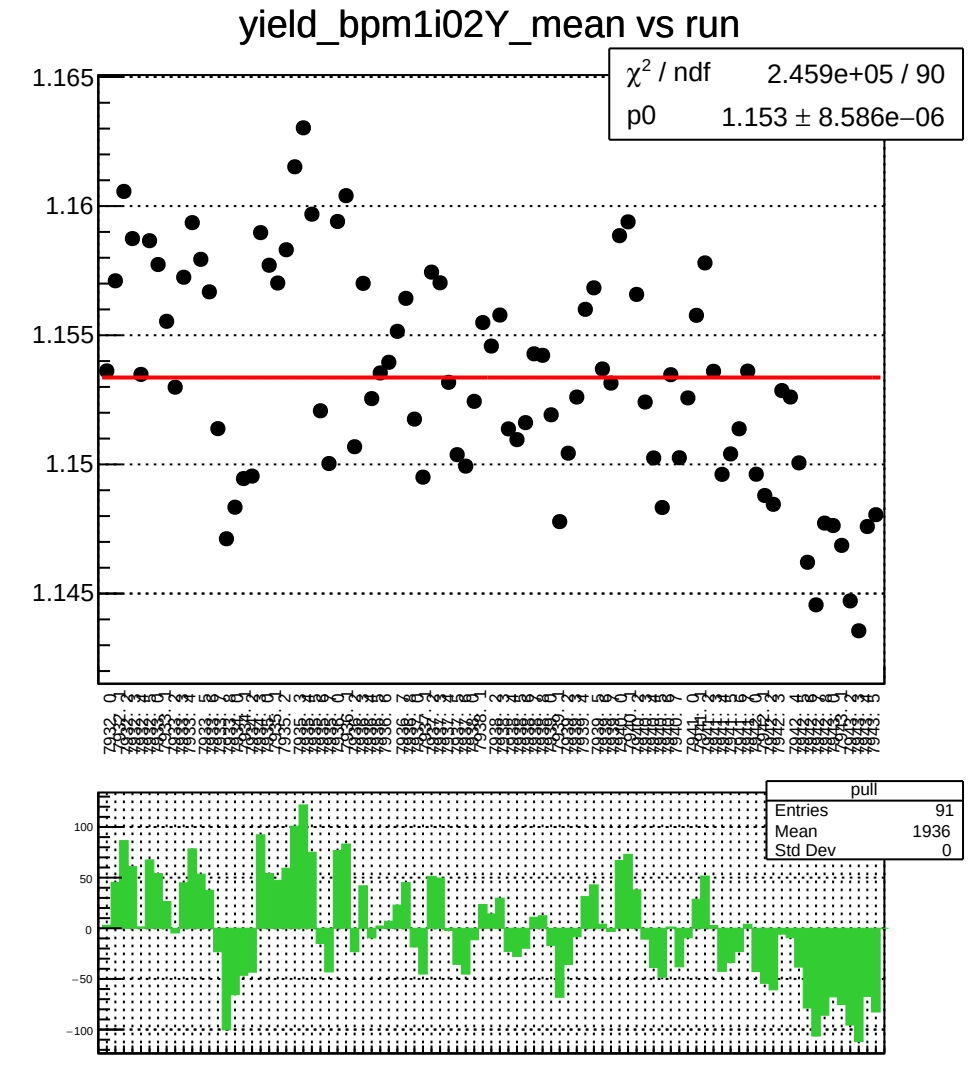

pull1D
Entries 91
Mean 2.941
Std Dev 3.119
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

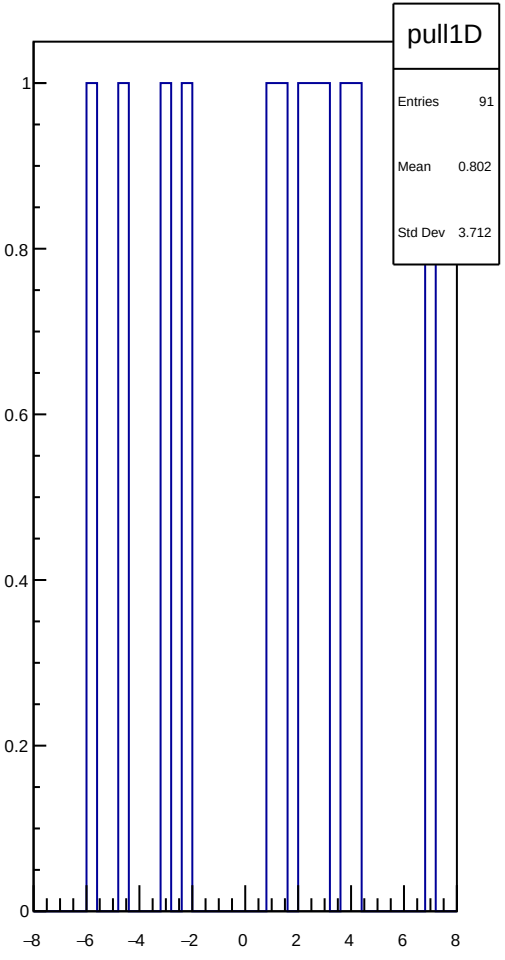

yield_bpm0i07Y_rms vs run
χ² / ndf 779.3 / 90
p0 0.004378 ± 3.312e−06
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042

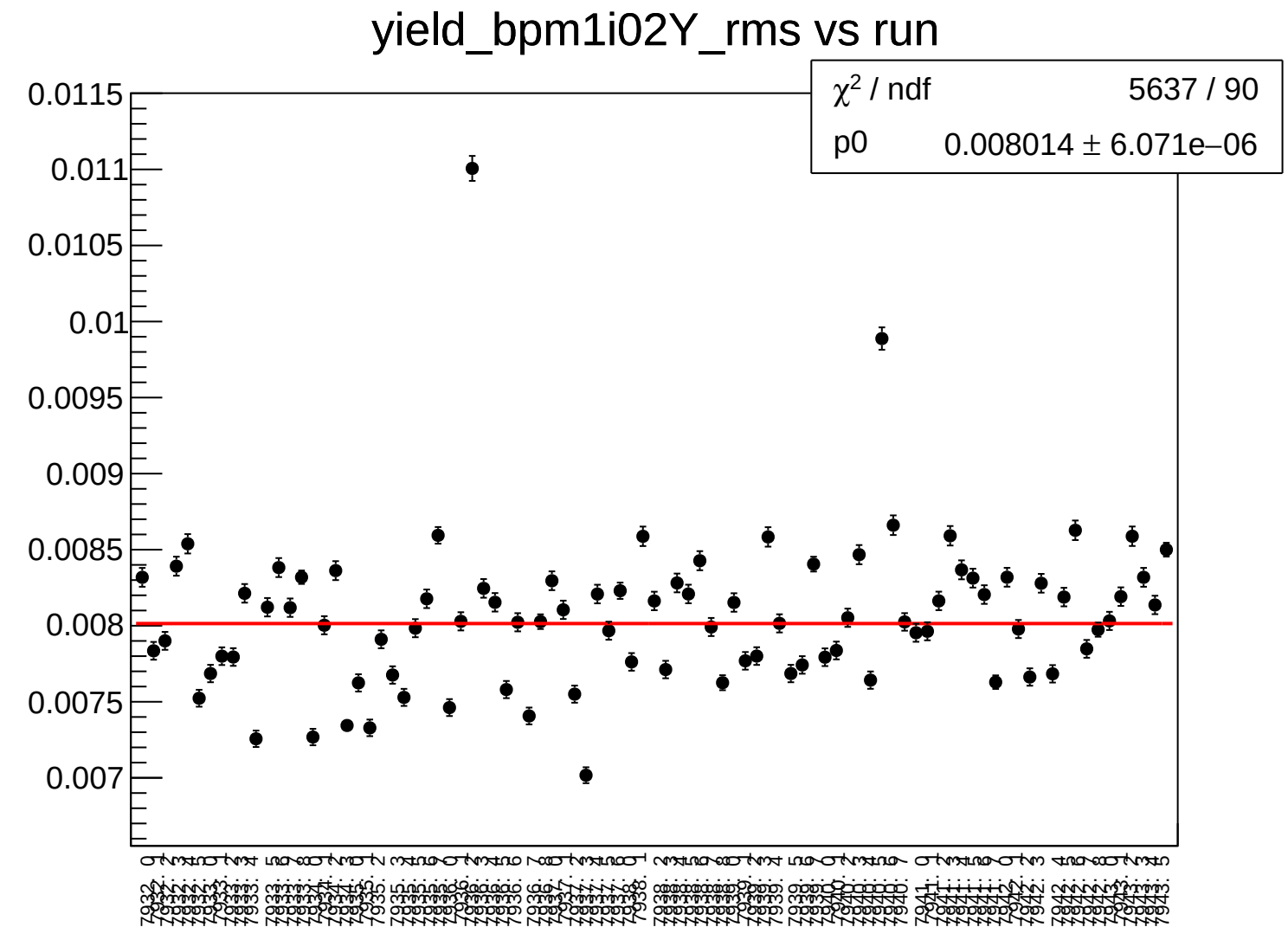

yield_bpm1i02X_mean vs run
χ² / ndf 1.443e+05 / 90
p0 0.05547 ± 1.154e−05
0.065
0.06
0.055
0.05
0.045
pull
Entries 91
Mean −5576
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

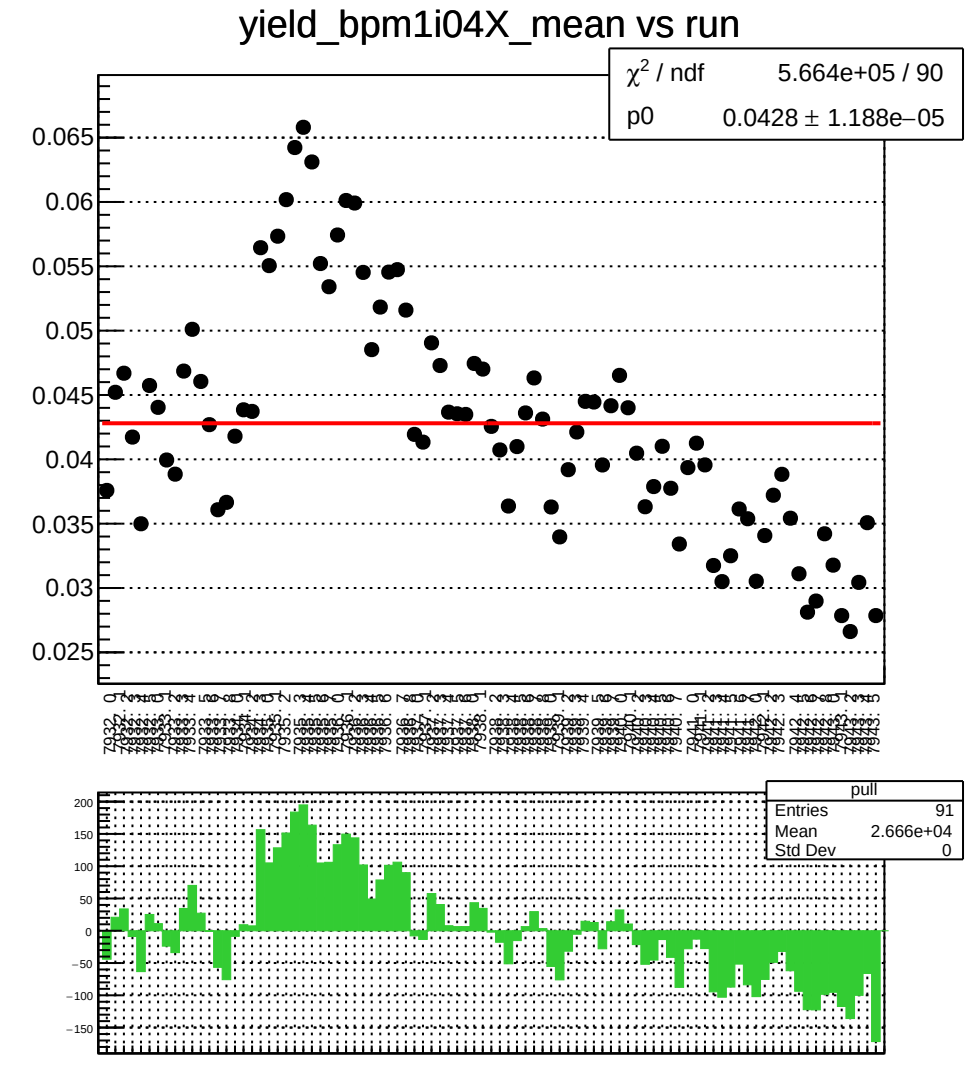

pull1D
Entries 91
Mean 0.342
Std Dev 4.345
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

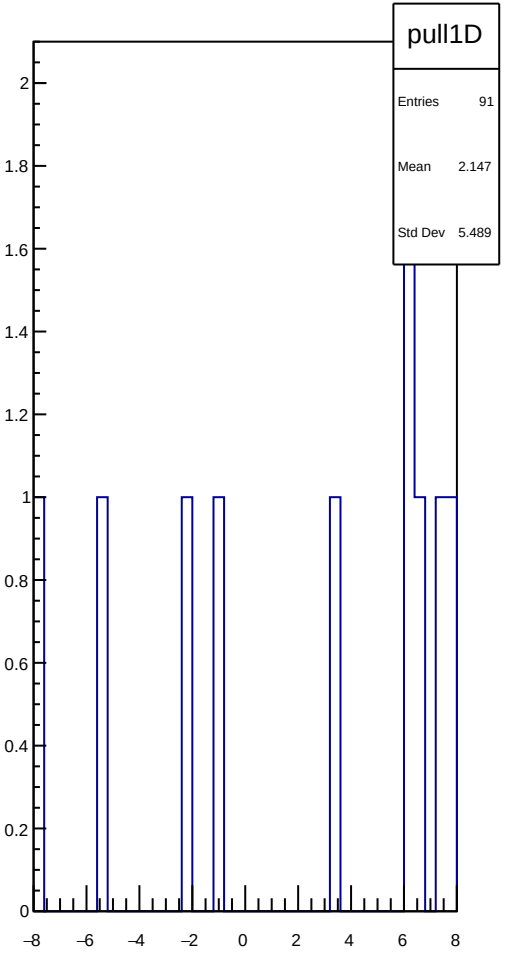

yield_bpm1i02X_rms vs run
χ² / ndf 2995 / 90
p0 0.01078 ± 8.163e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095

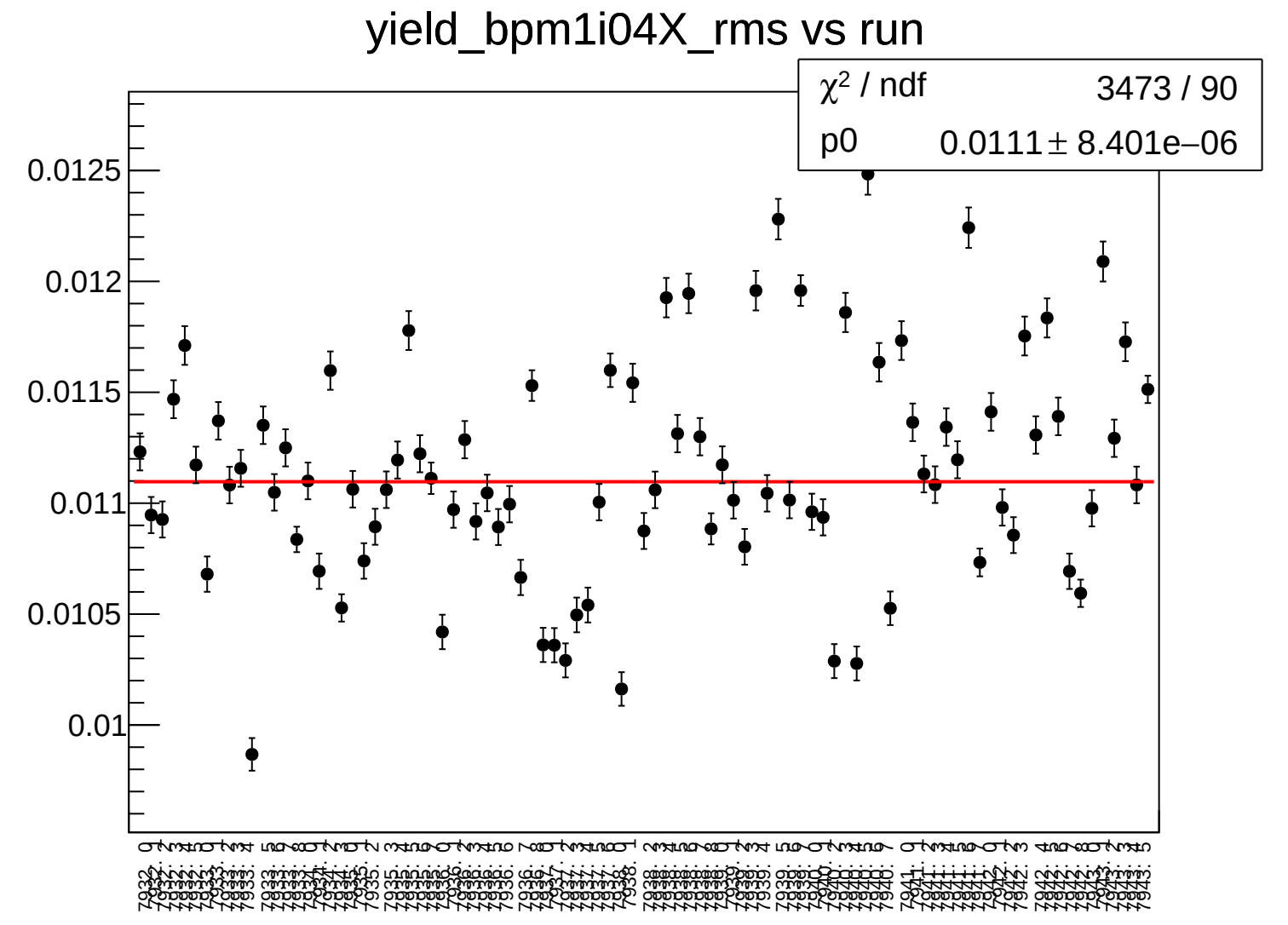

yield_bpm1i02Y_mean vs run
χ² / ndf 2.459e+05 / 90
p0 1.153 ± 8.586e−06
1.165
1.16
1.155
1.15
1.145
pull
Entries 91
Mean 1936
Std Dev 0
100
50
0
−50
−100

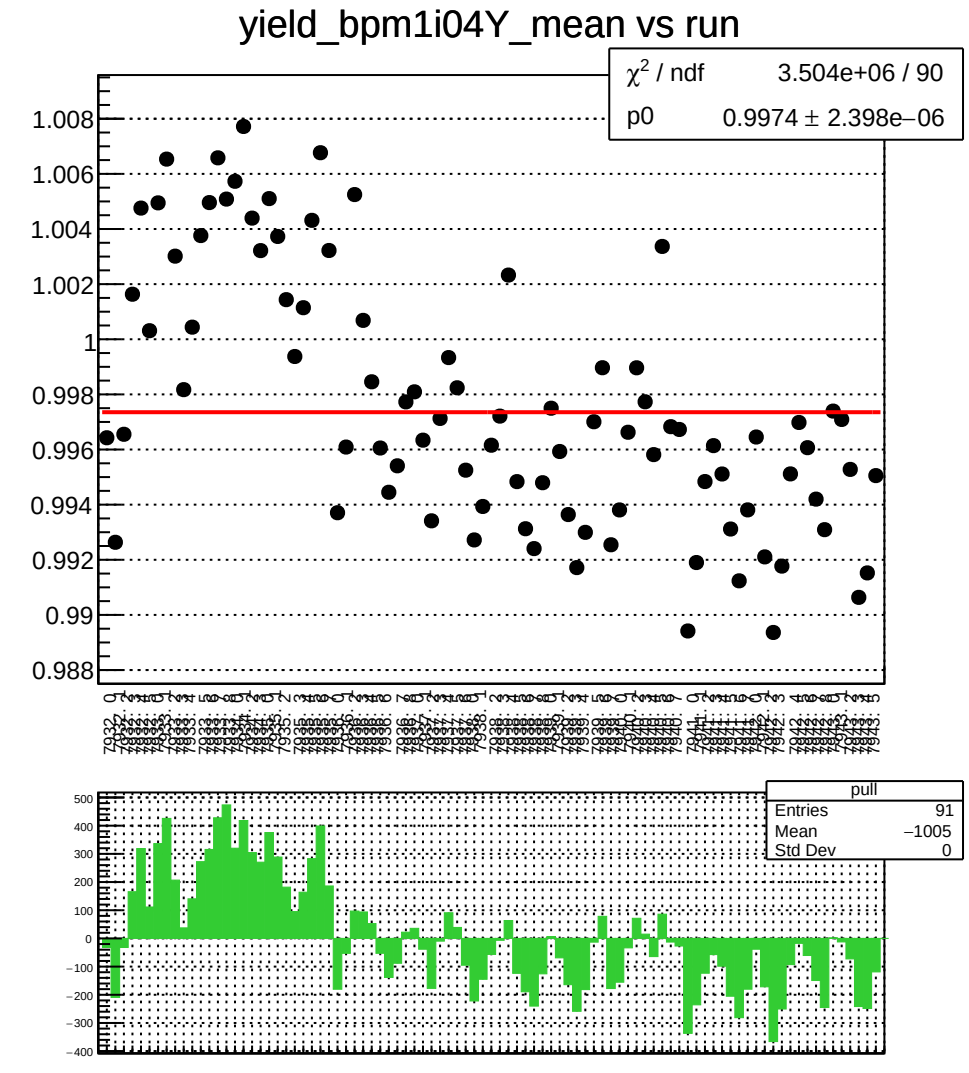

pull1D
Entries 91
Mean 0.802
Std Dev 3.712
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

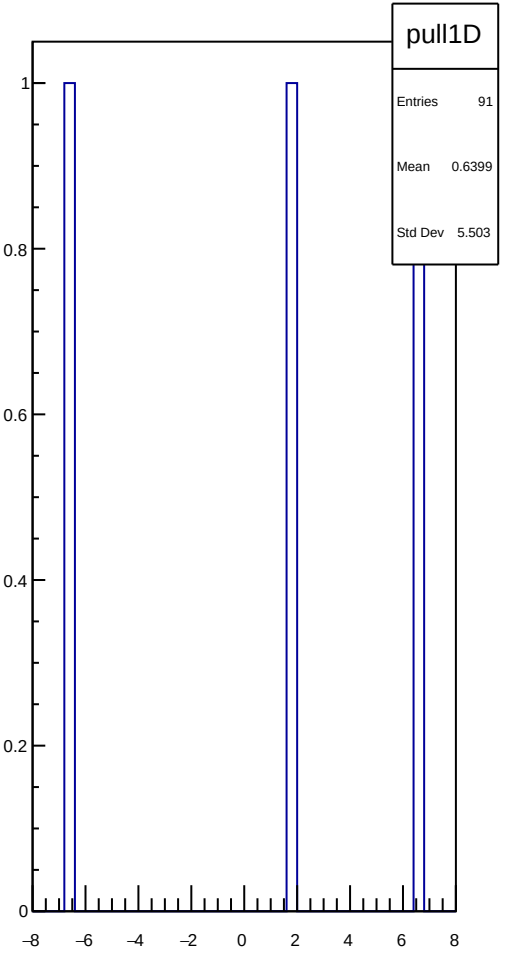

yield_bpm1i02Y_rms vs run
χ² / ndf 5637 / 90
p0 0.008014 ± 6.071e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

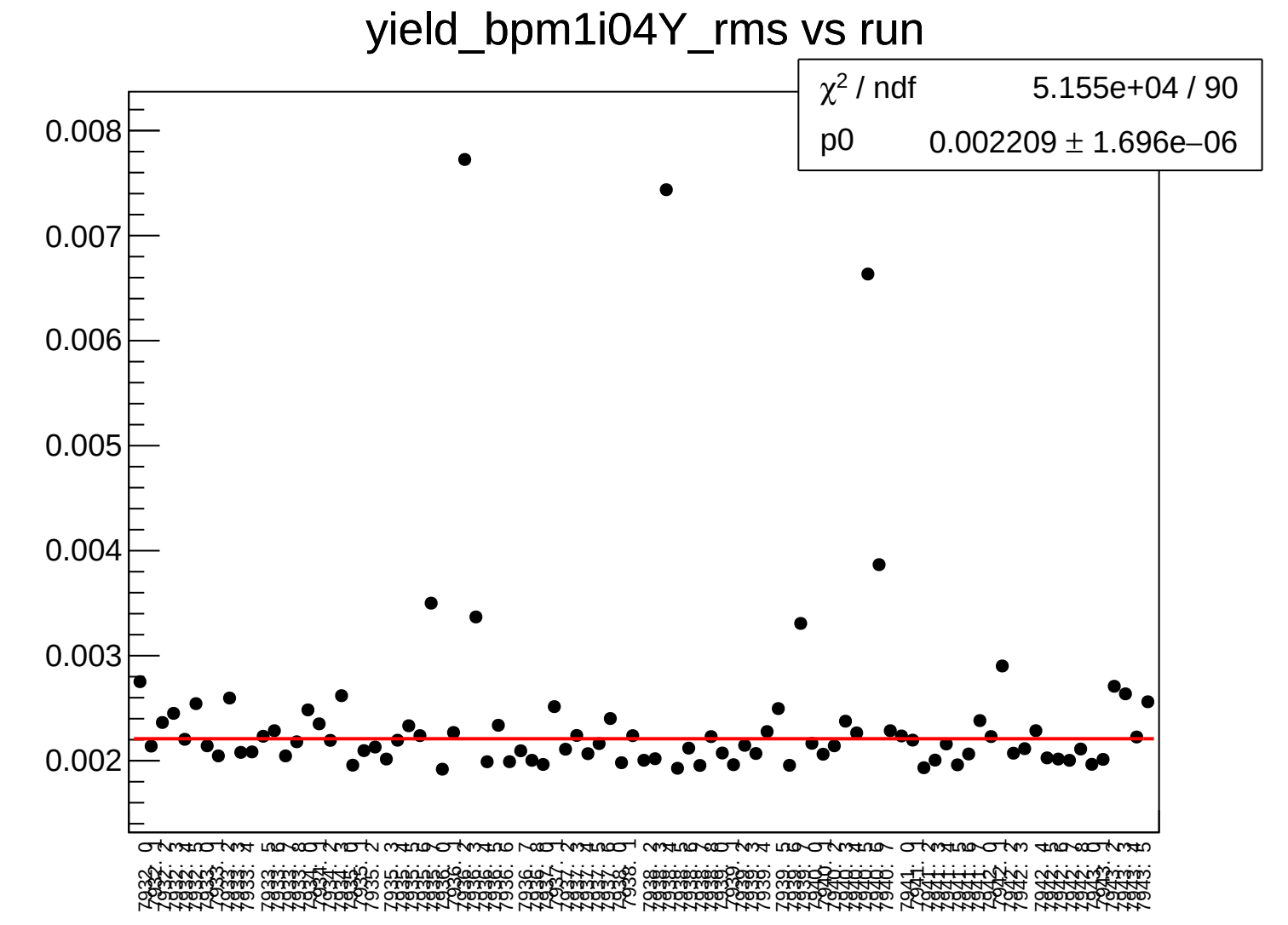

yield_bpm1i04X_mean vs run
χ² / ndf 5.664e+05 / 90
p0 0.0428 ± 1.188e−05
pull
Entries 91
Mean 2.666e+04
Std Dev 0

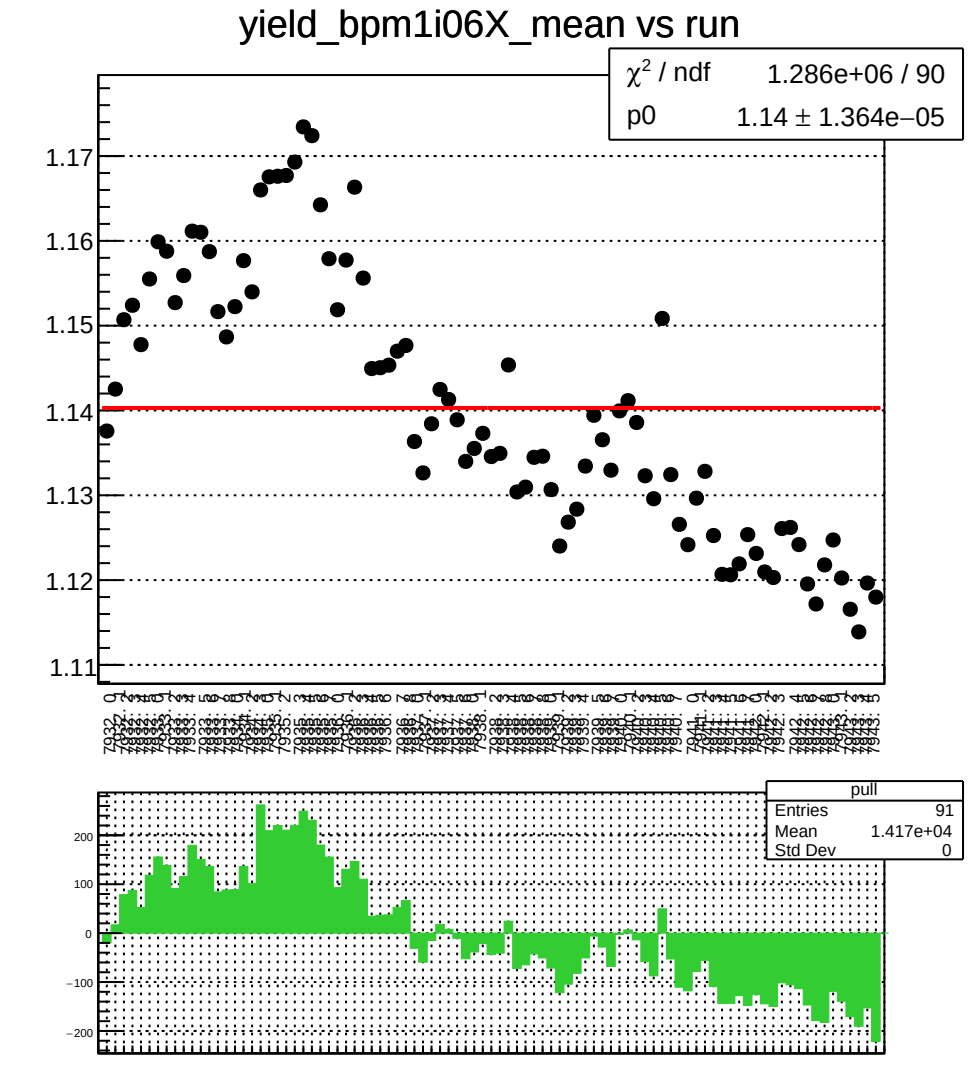

pull1D
Entries 91
Mean 2.147
Std Dev 5.489

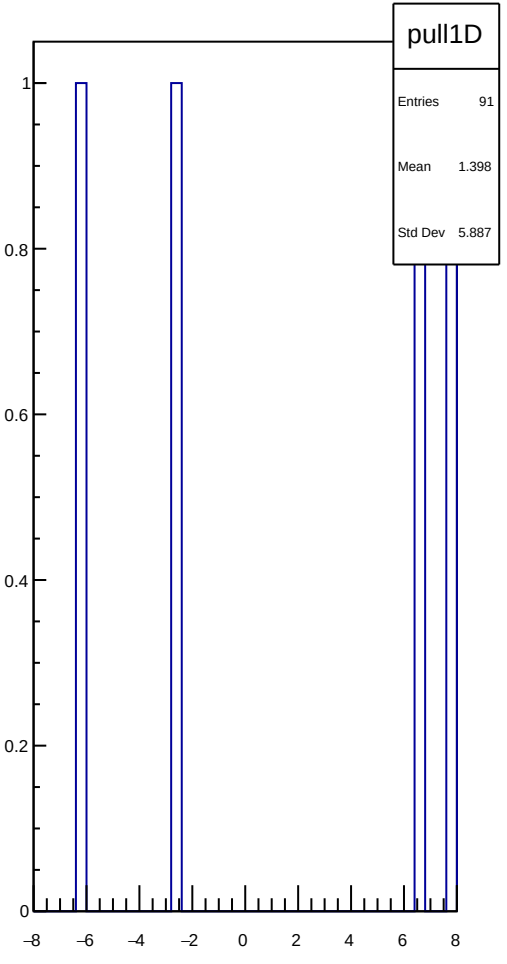

yield_bpm1i04X_rms vs run
χ² / ndf 3473 / 90
p0 0.0111 ± 8.401e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01

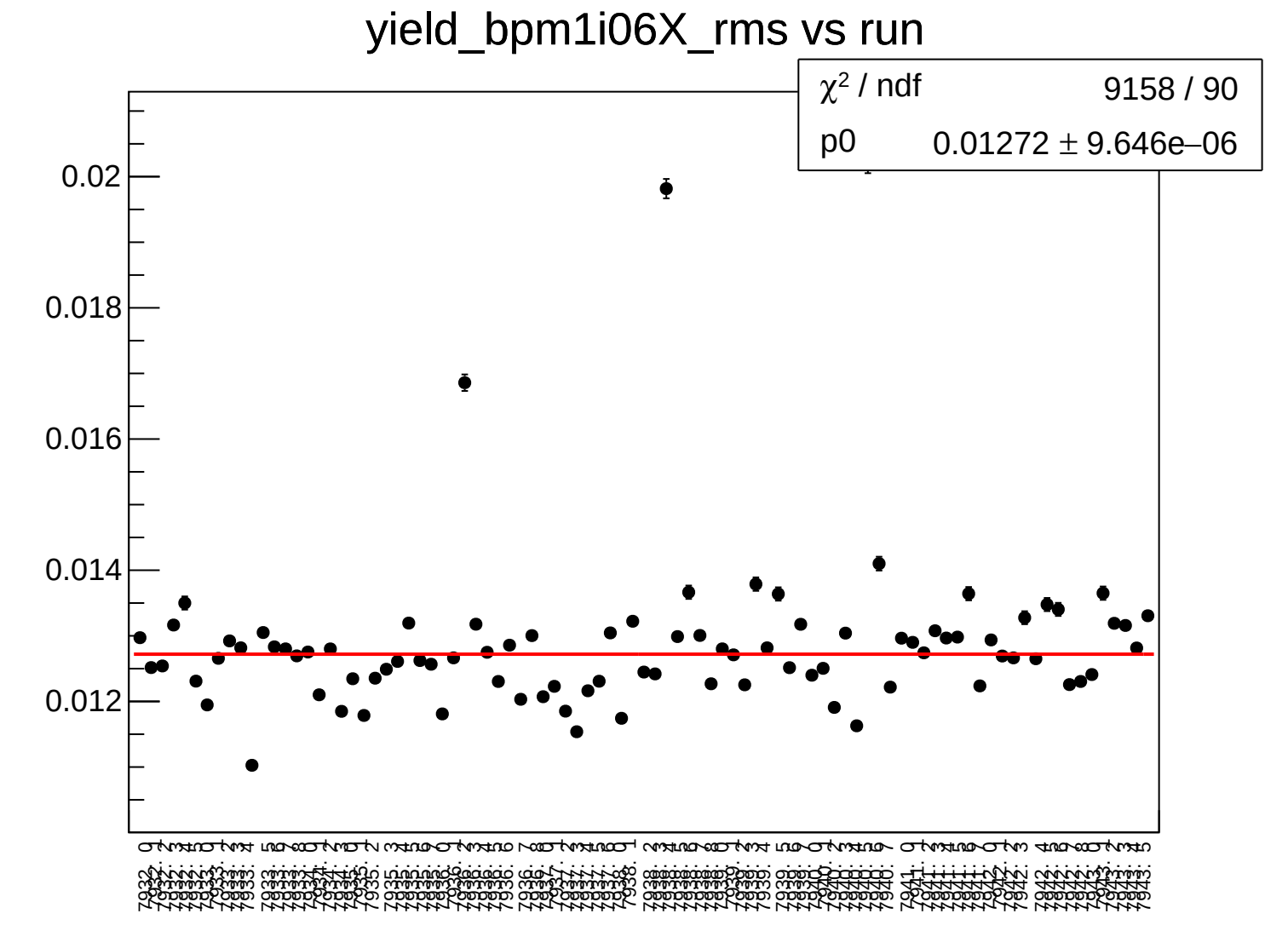

yield_bpm1i04Y_mean vs run
χ² / ndf 3.504e+06 / 90
p0 0.9974 ± 2.398e−06
1.008
1.006
1.004
1.002
1
0.998
0.996
0.994
0.992
0.99
0.988
pull
Entries 91
Mean −1005
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

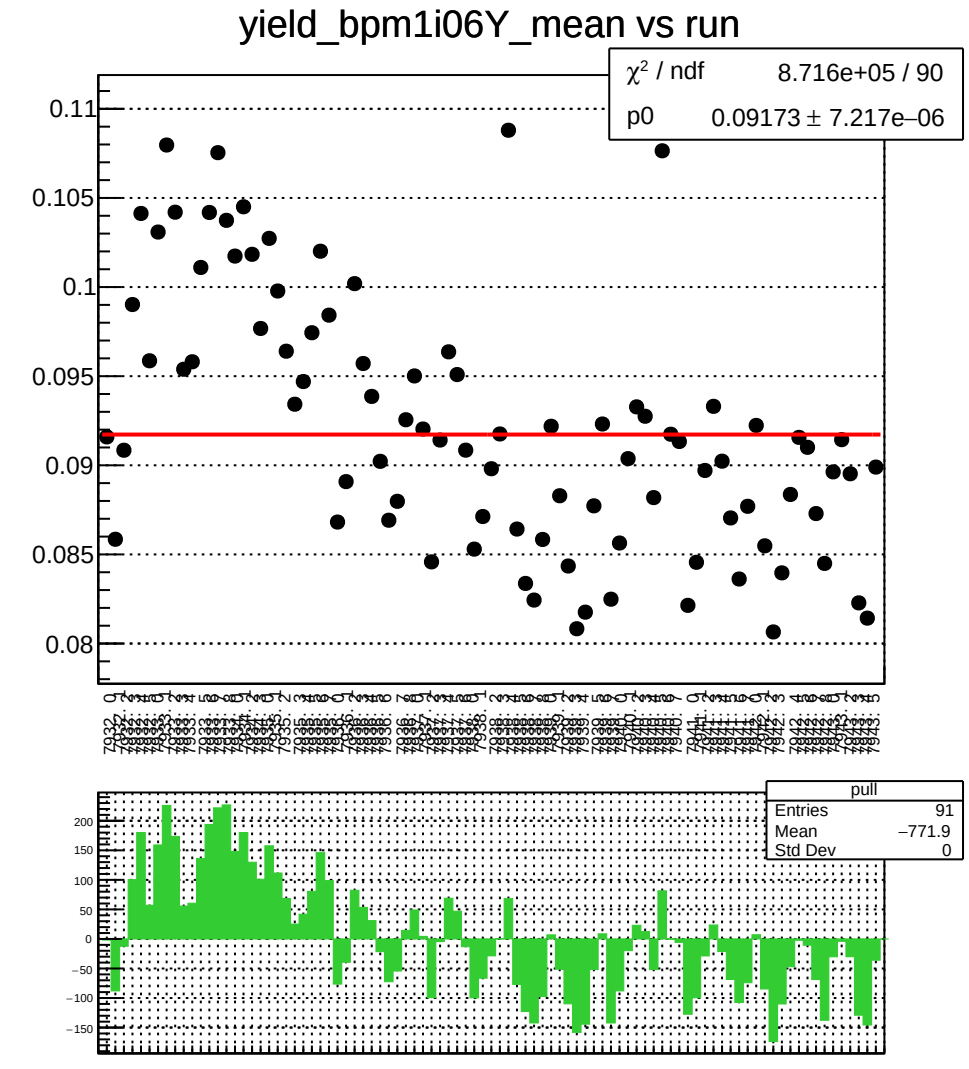

pull1D
Entries 91
Mean 0.6399
Std Dev 5.503
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

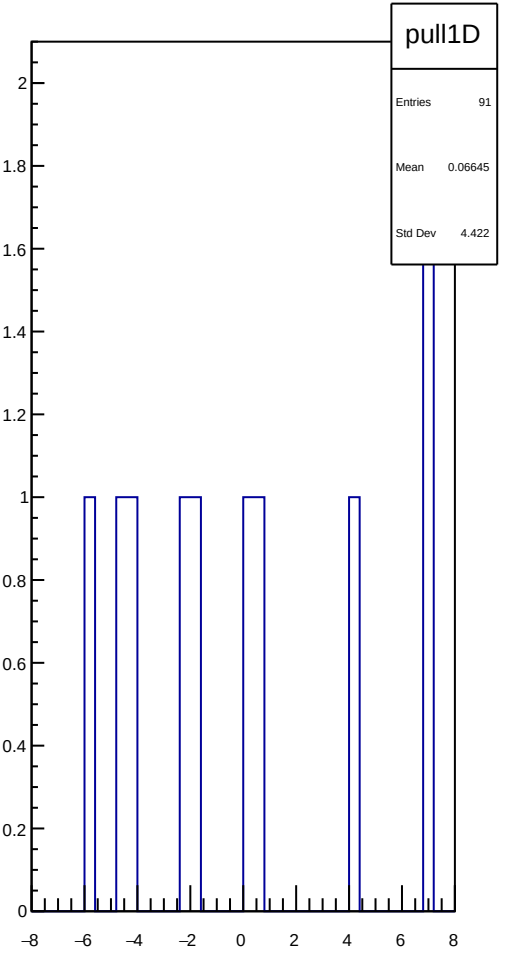

yield_bpm1i04Y_rms vs run
χ^2 / ndf 5.155e+04 / 90
p0 0.002209 ± 1.696e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

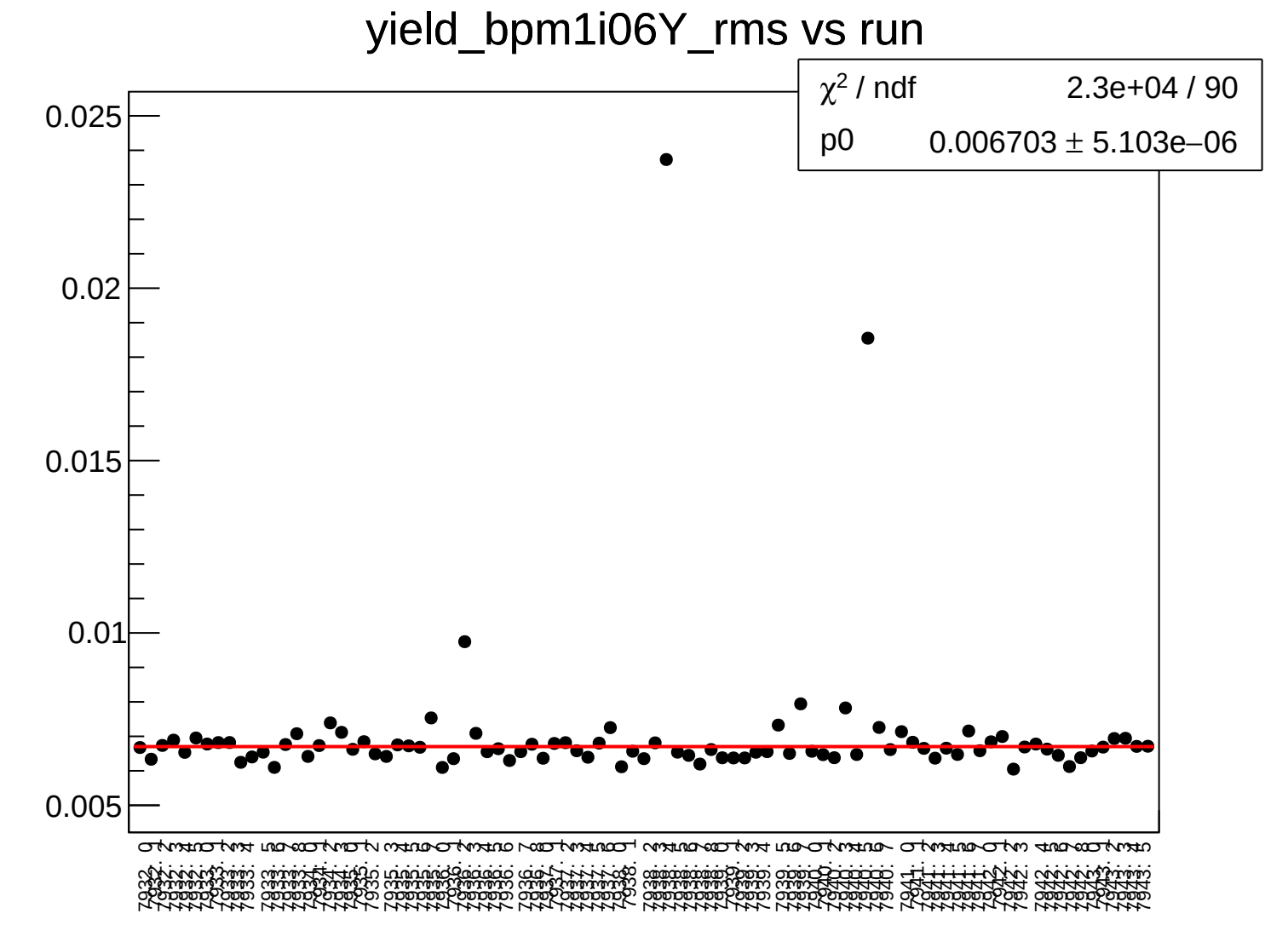

yield_bpm1i06X_mean vs run
χ² / ndf 1.286e+06 / 90
p0 1.14 ± 1.364e−05
1.17
1.16
1.15
1.14
1.13
1.12
1.11
pull
Entries 91
Mean 1.417e+04
Std Dev 0
200
100
0
−100
−200

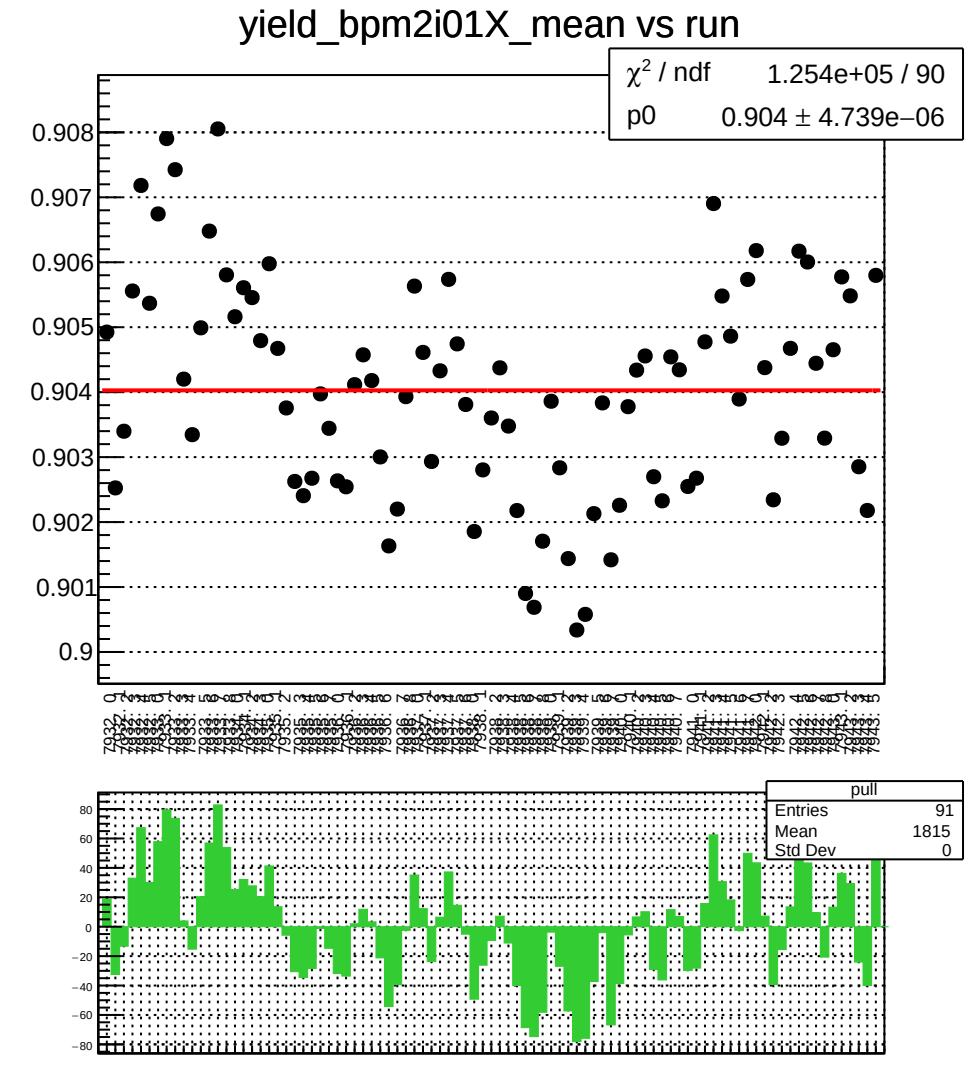

pull1D
Entries 91
Mean 1.398
Std Dev 5.887
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

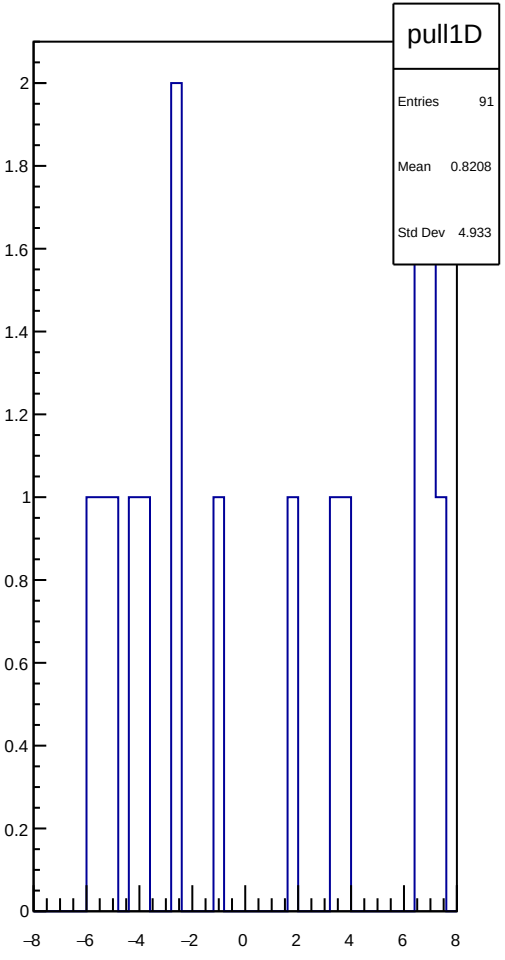

yield_bpm1i06X_rms vs run
χ² / ndf 9158 / 90
p0 0.01272 ± 9.646e–06
0.02
0.018
0.016
0.014
0.012

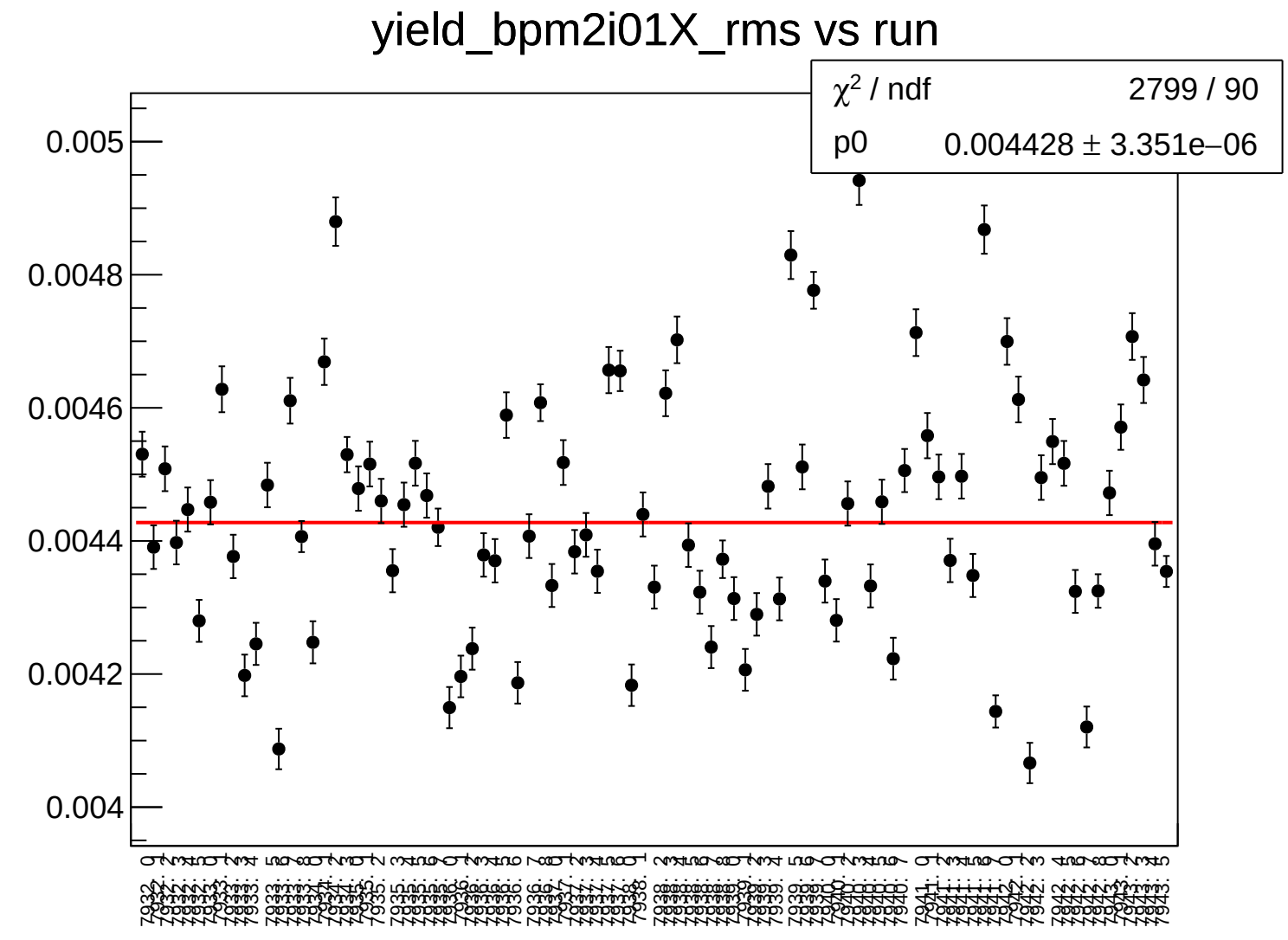

yield_bpm1i06Y_mean vs run
χ² / ndf 8.716e+05 / 90
p0 0.09173 ± 7.217e−06
pull
Entries 91
Mean −771.9
Std Dev 0

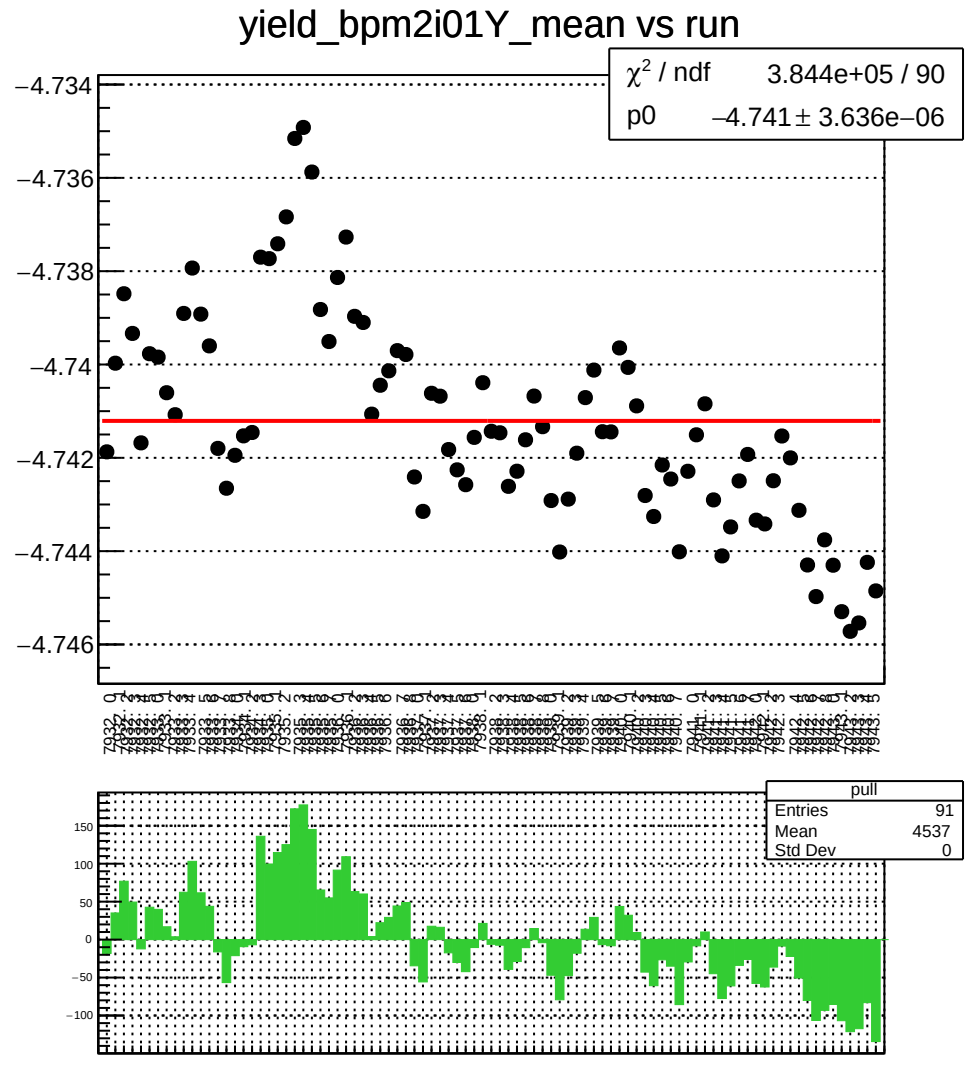

pull1D
Entries 91
Mean 0.06645
Std Dev 4.422

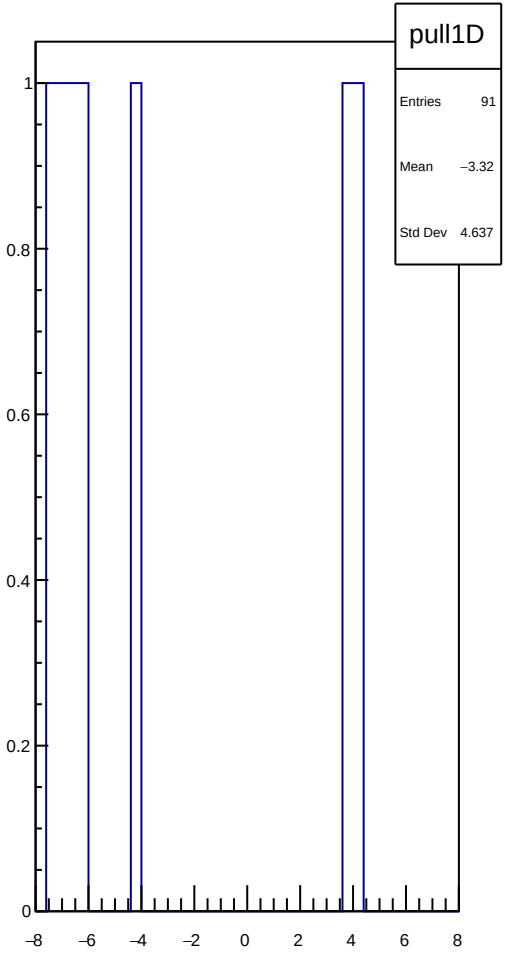

yield_bpm1i06Y_rms vs run
χ² / ndf 2.3e+04 / 90
p0 0.006703 ± 5.103e−06
0.025
0.02
0.015
0.01
0.005

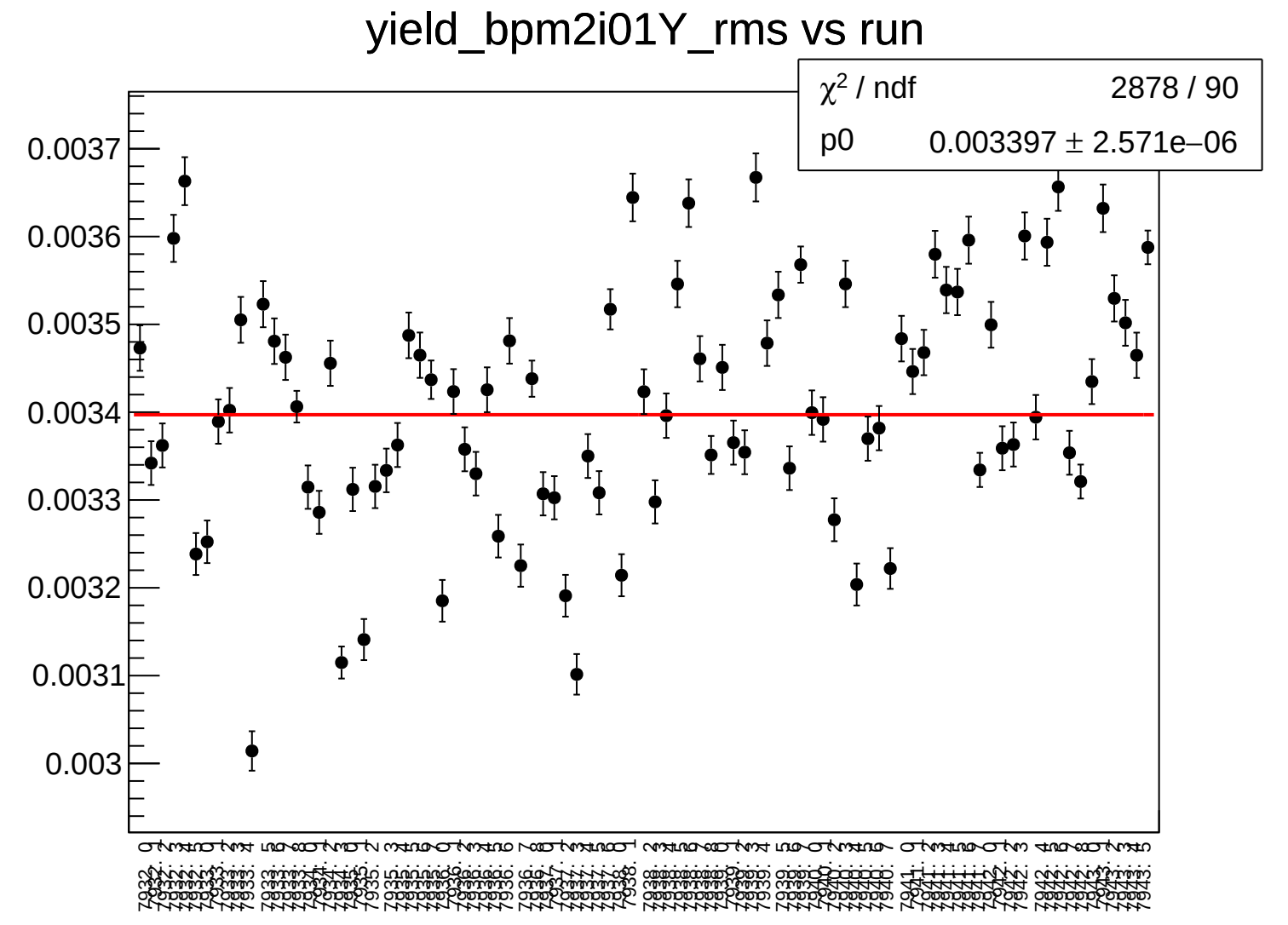

yield_bpm2i01X_mean vs run
χ² / ndf 1.254e+05 / 90
p0 0.904 ± 4.739e−06
pull
Entries 91
Mean 1815
Std Dev 0

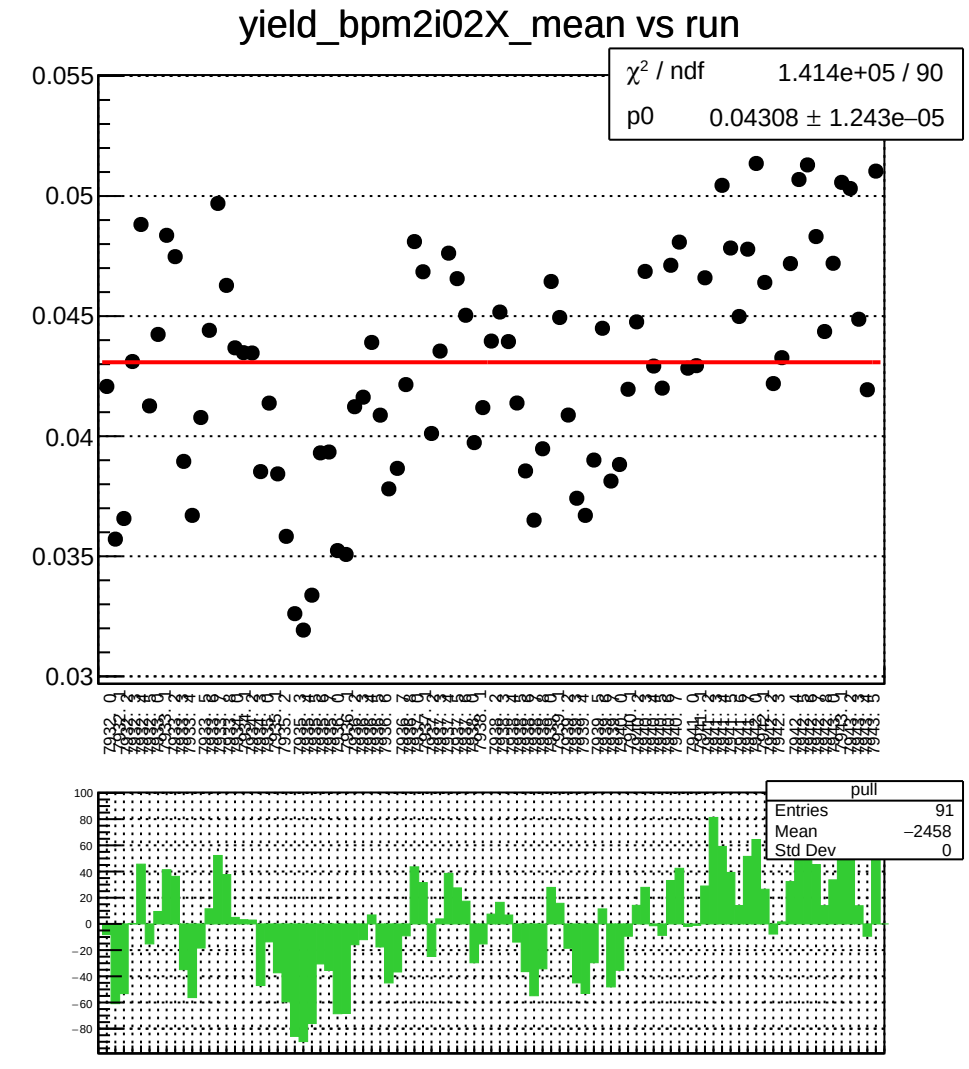

pull1D
Entries 91
Mean 0.8208
Std Dev 4.933

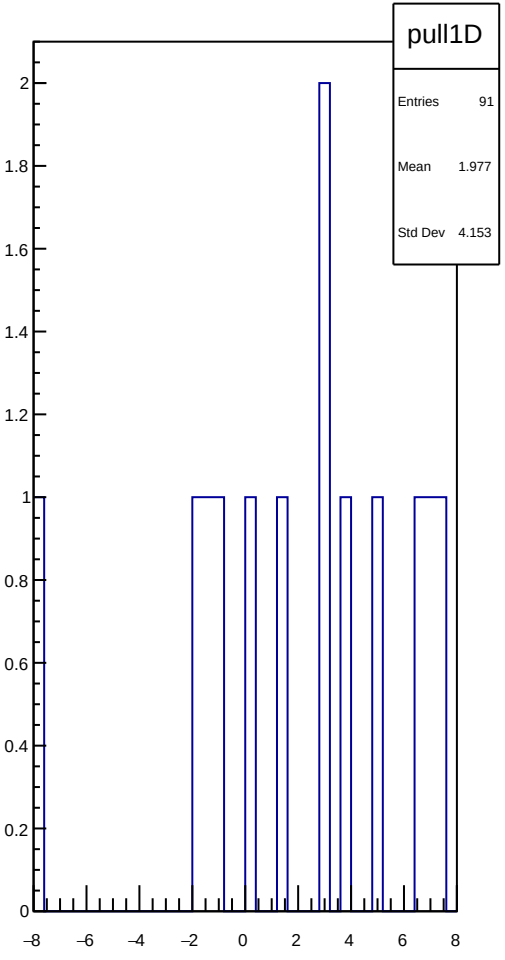

yield_bpm2i01X_rms vs run
χ² / ndf 2799 / 90
p0 0.004428 ± 3.351e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

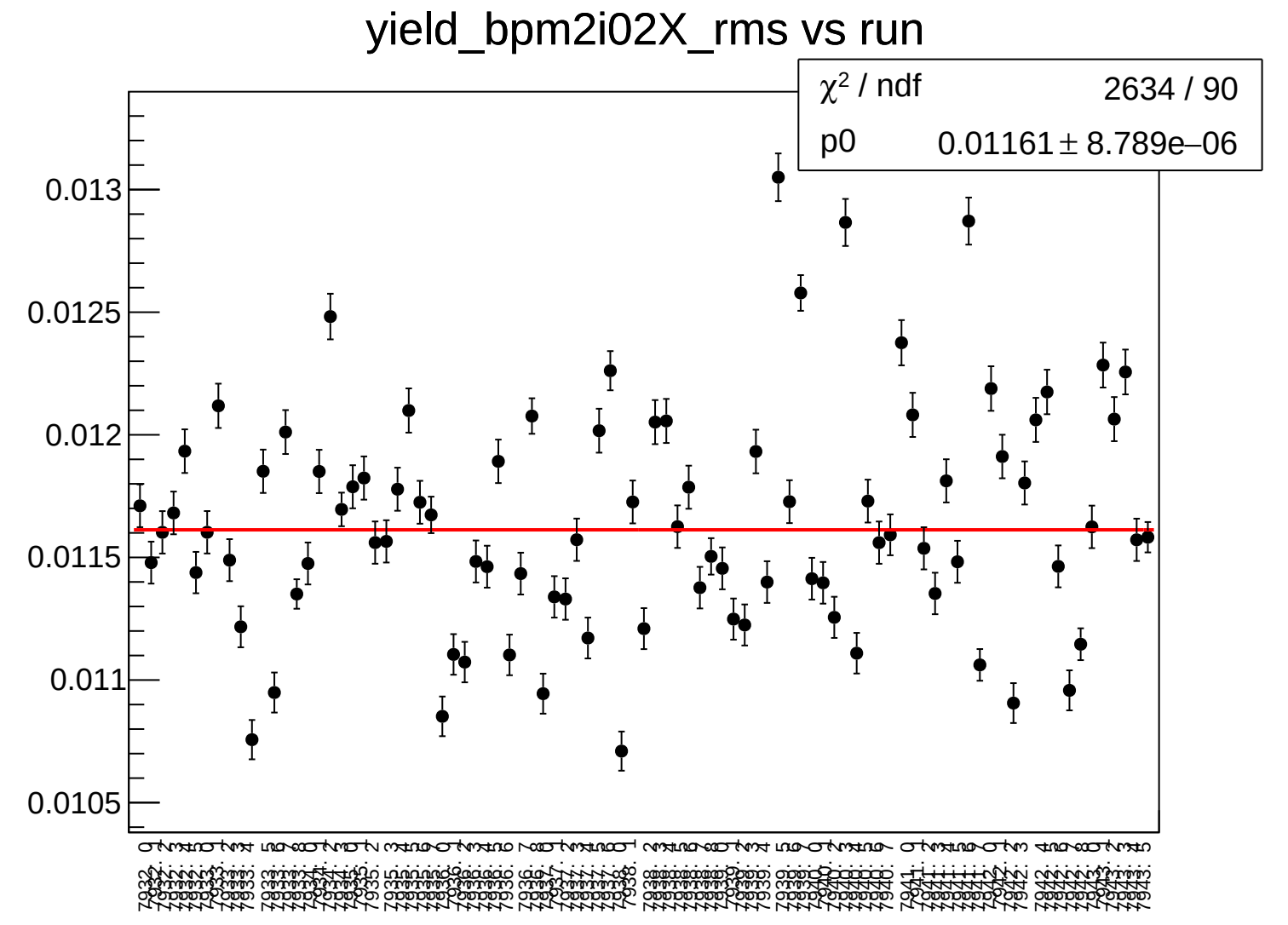

yield_bpm2i01Y_mean vs run
χ² / ndf 3.844e+05 / 90
p0 −4.741 ± 3.636e−06
−4.734
−4.736
−4.738
−4.74
−4.742
−4.744
−4.746
pull
Entries 91
Mean 4537
Std Dev 0
150
100
50
0
−50
−100

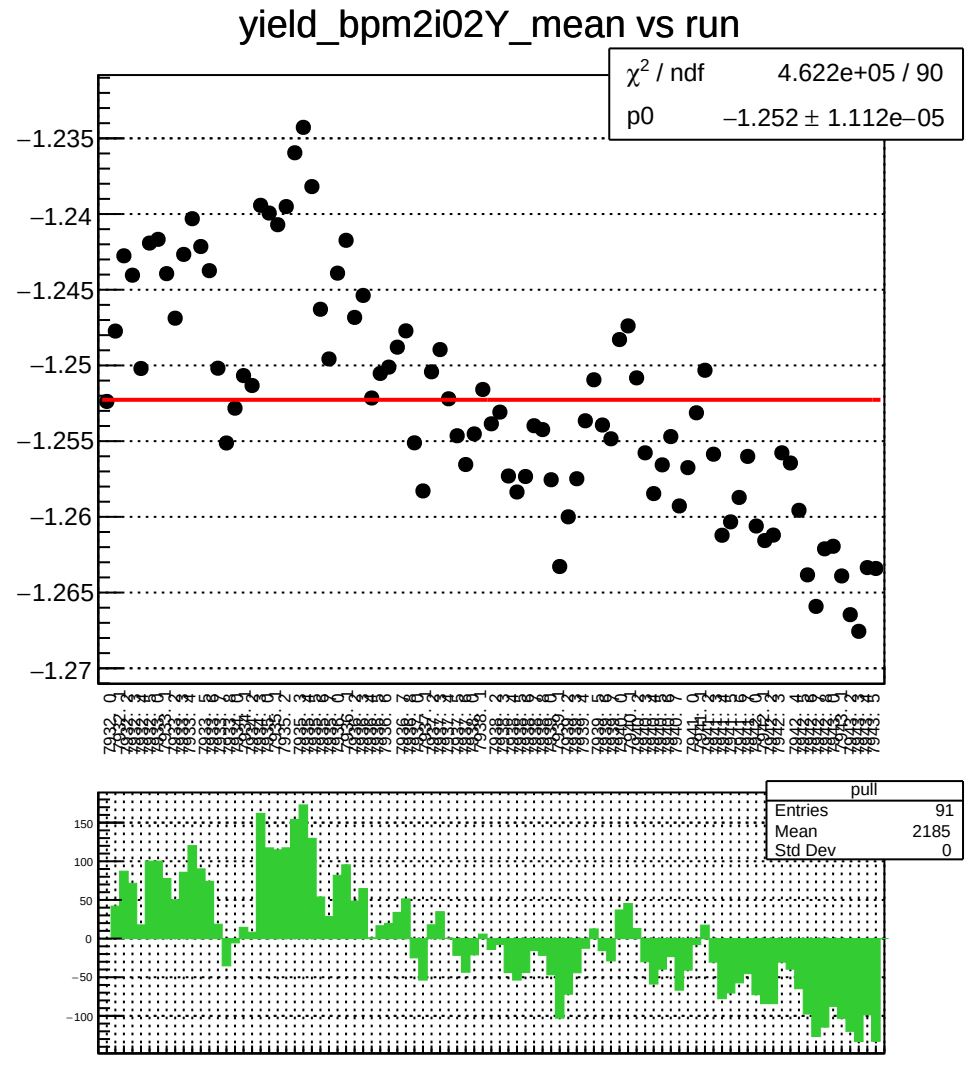

pull1D
Entries 91
Mean −3.32
Std Dev 4.637
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

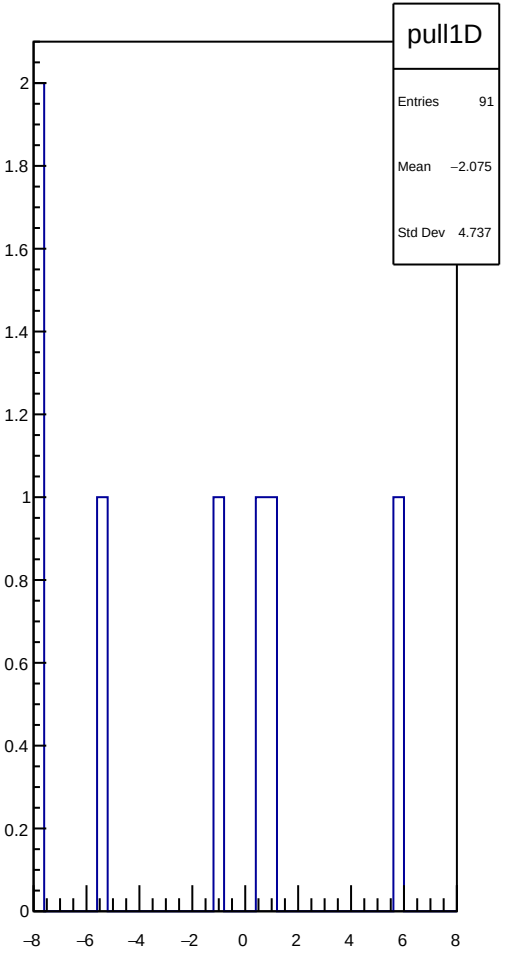

yield_bpm2i01Y_rms vs run
χ² / ndf 2878 / 90
p0 0.003397 ± 2.571e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

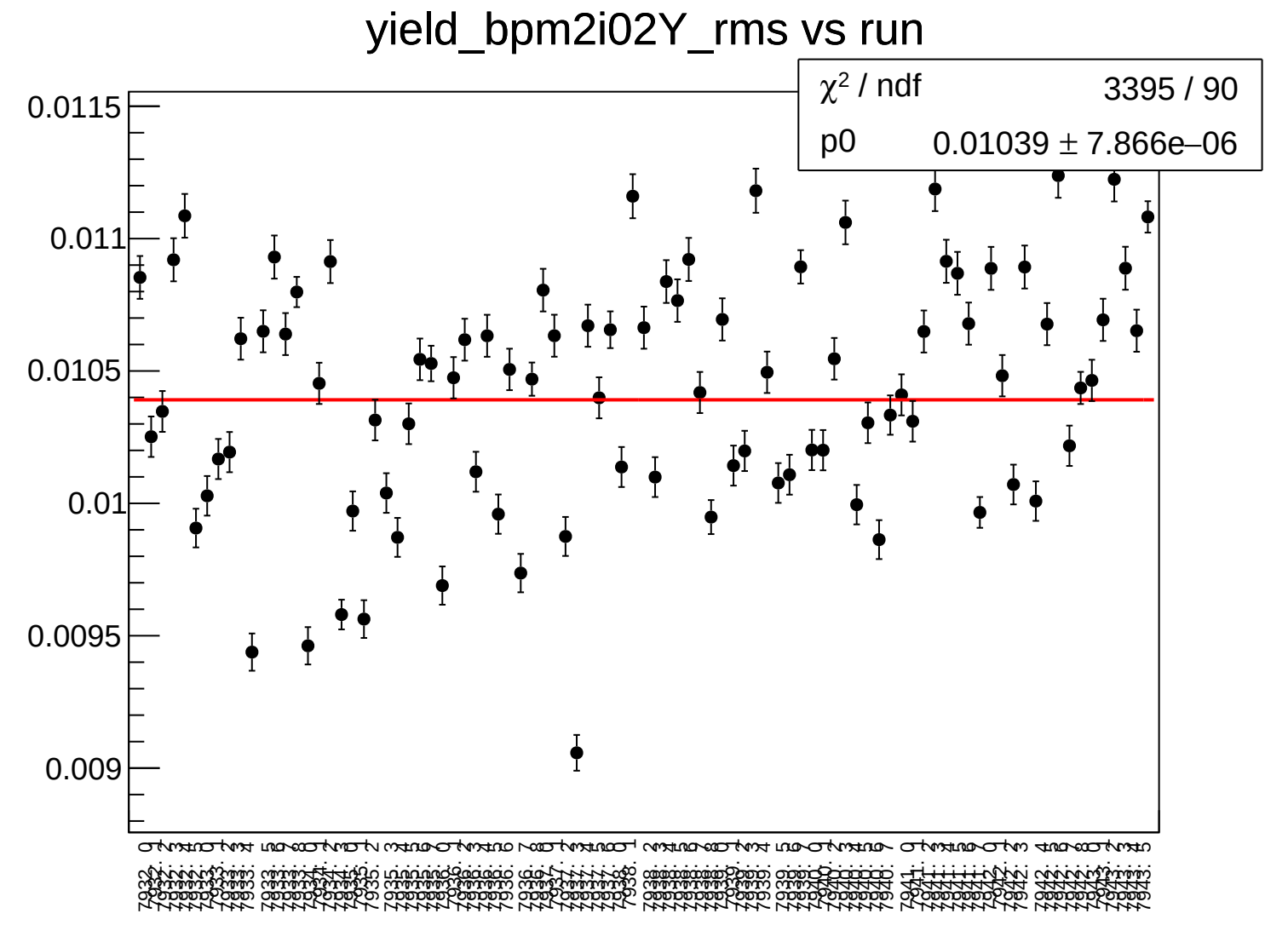

yield_bpm2i02X_mean vs run
χ² / ndf 1.414e+05 / 90
p0 0.04308 ± 1.243e−05
0.055
0.05
0.045
0.04
0.035
0.03
pull
Entries 91
Mean −2458
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

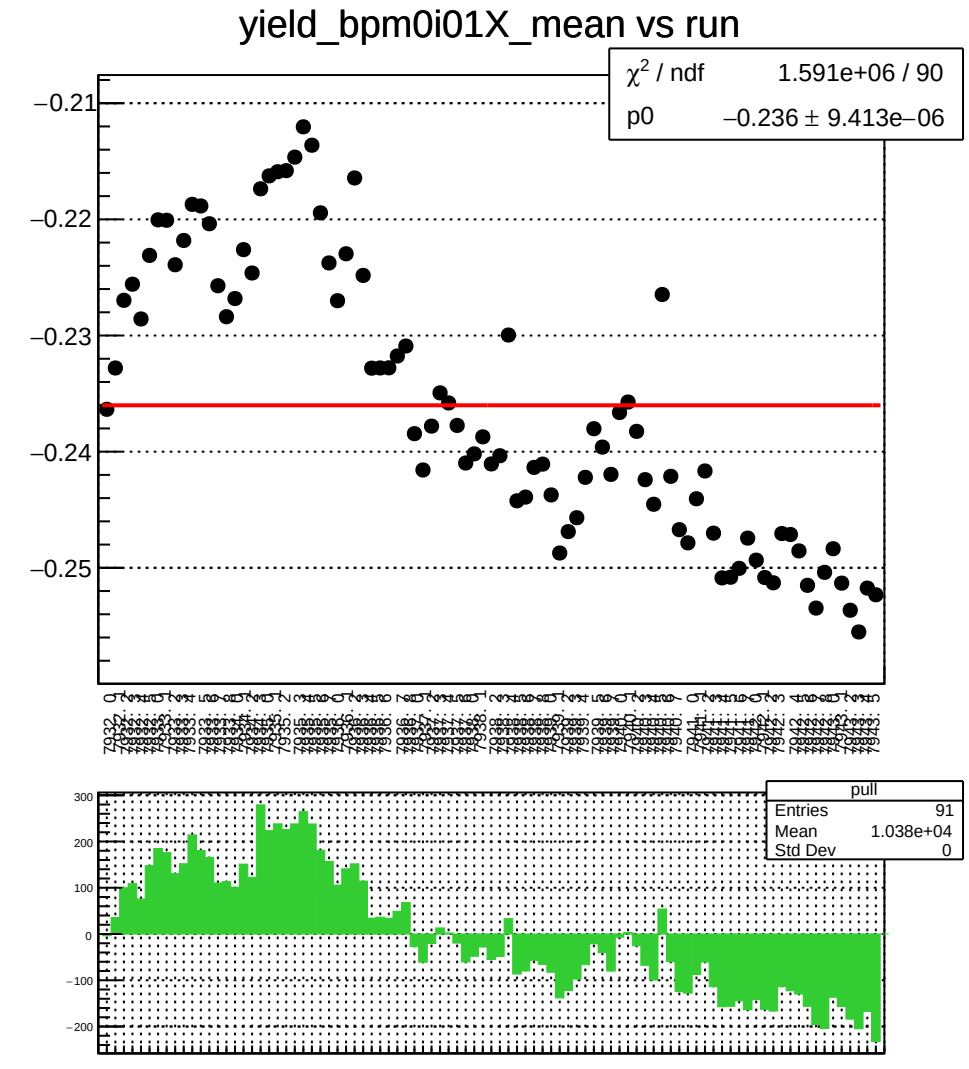

pull1D
Entries 91
Mean 1.977
Std Dev 4.153
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

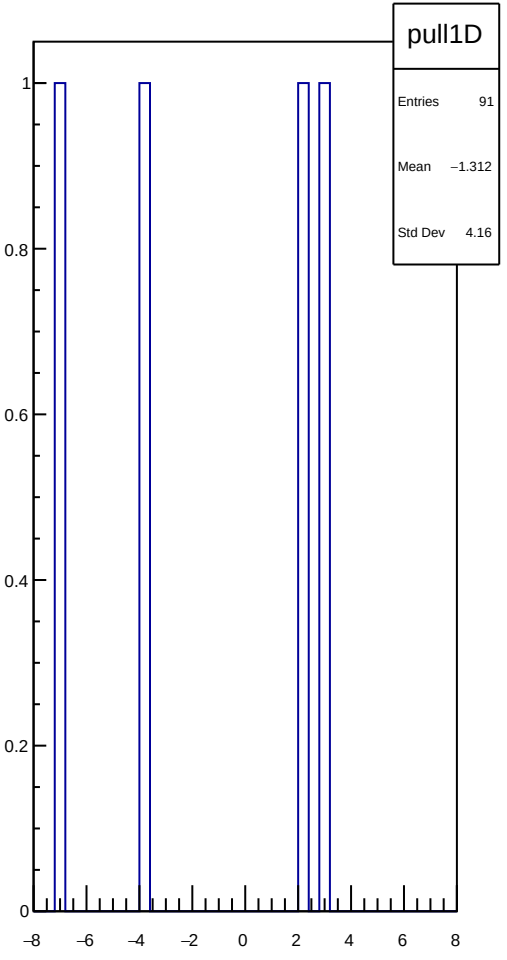

yield_bpm2i02X_rms vs run
χ² / ndf 2634 / 90
p0 0.01161 ± 8.789e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105

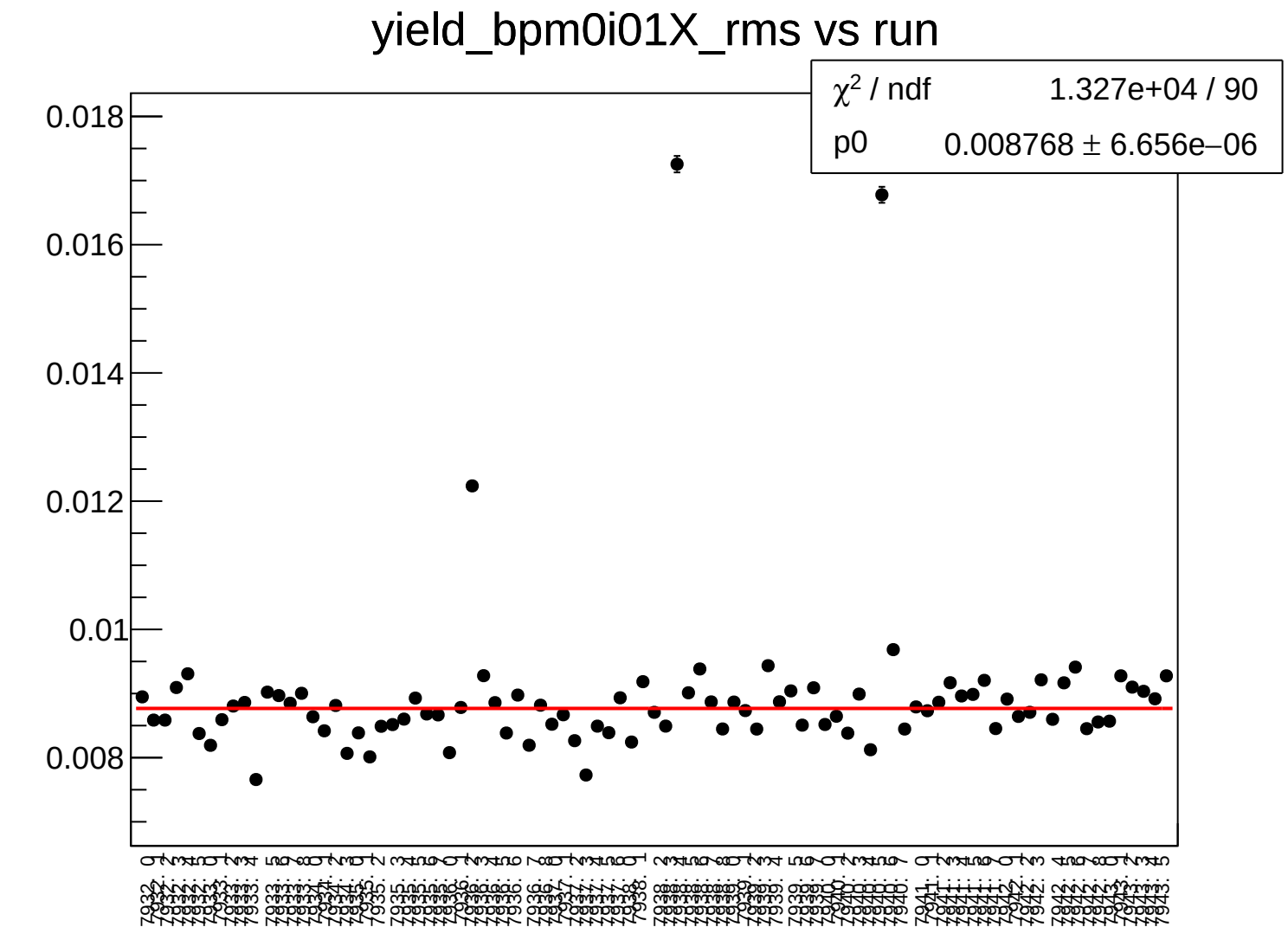

yield_bpm2i02Y_mean vs run
χ² / ndf 4.622e+05 / 90
p0 −1.252 ± 1.112e−05
−1.235
−1.24
−1.245
−1.25
−1.255
−1.26
−1.265
−1.27
pull
Entries 91
Mean 2185
Std Dev 0
150
100
50
0
−50
−100

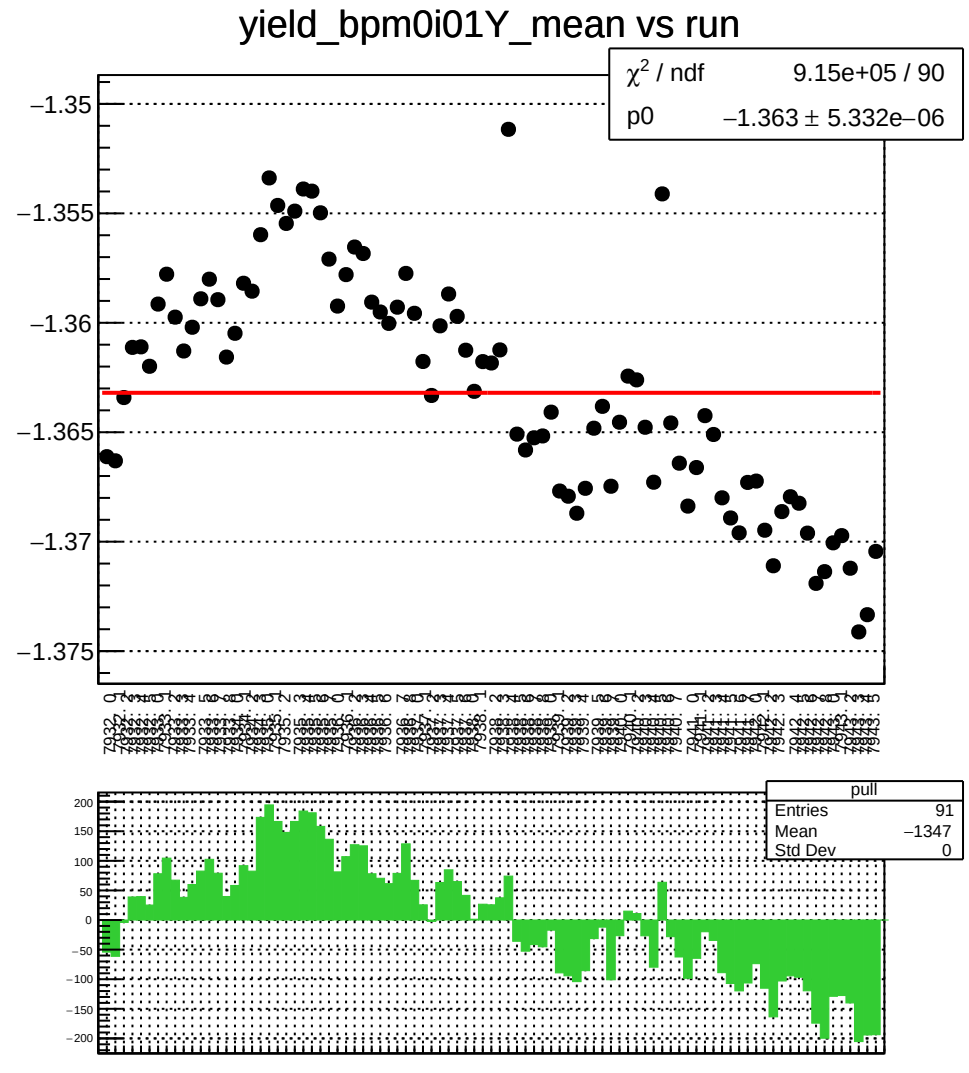

pull1D
Entries 91
Mean −2.075
Std Dev 4.737
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

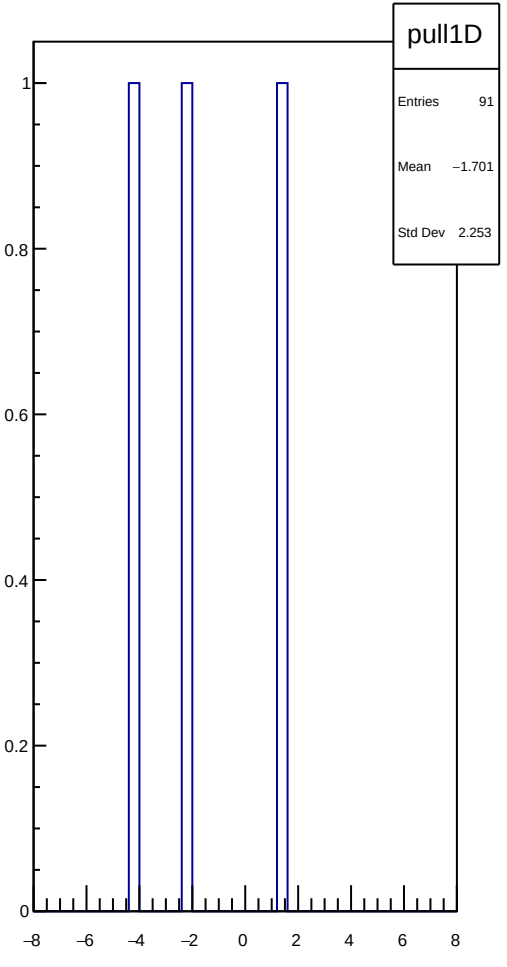

yield_bpm2i02Y_rms vs run
χ² / ndf 3395 / 90
p0 0.01039 ± 7.866e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009

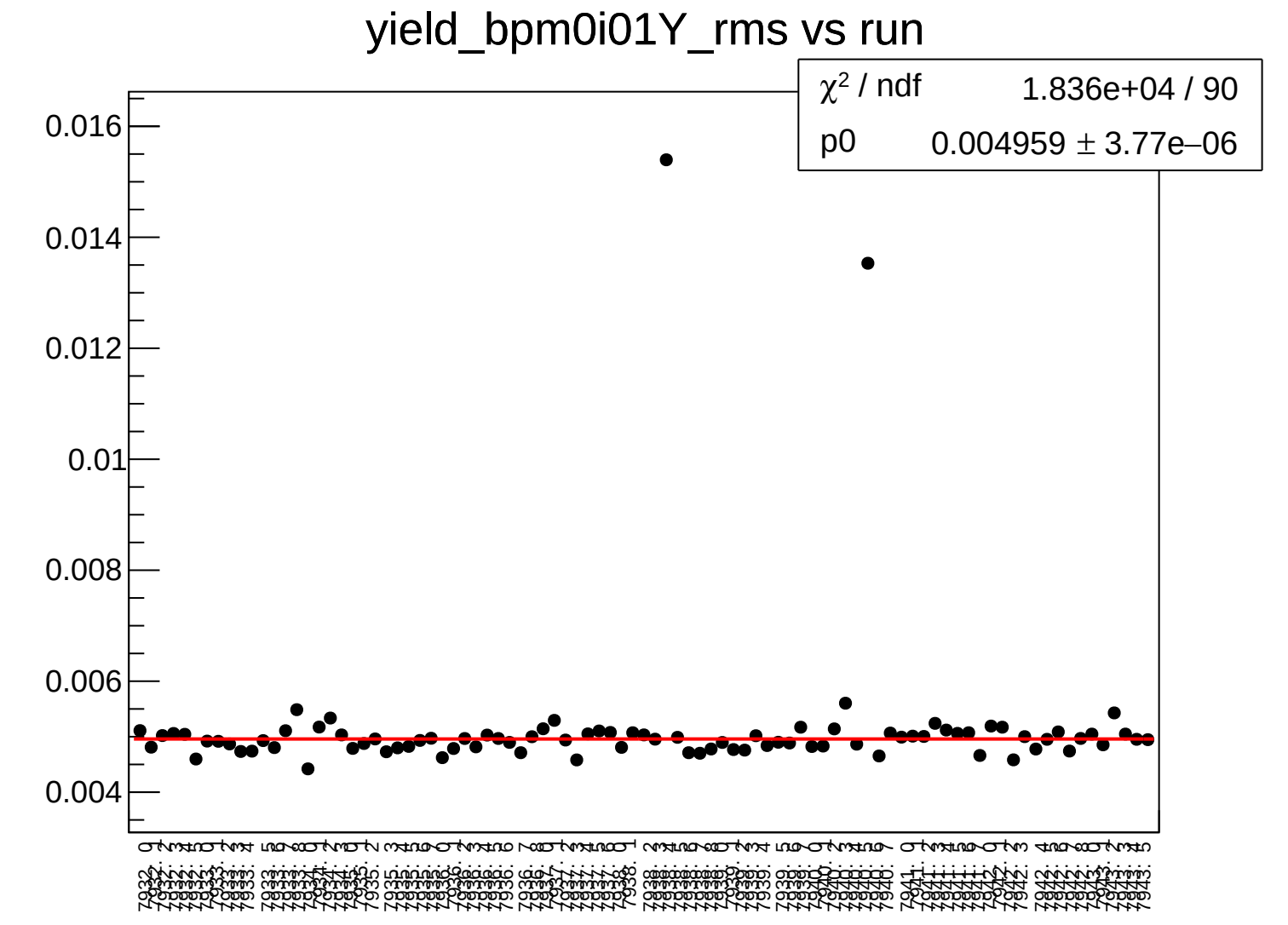

yield_bpm0i01X_mean vs run
χ² / ndf 1.591e+06 / 90
p0 −0.236 ± 9.413e−06
−0.21
−0.22
−0.23
−0.24
−0.25
pull
Entries 91
Mean 1.038e+04
Std Dev 0
300
200
100
0
−100
−200

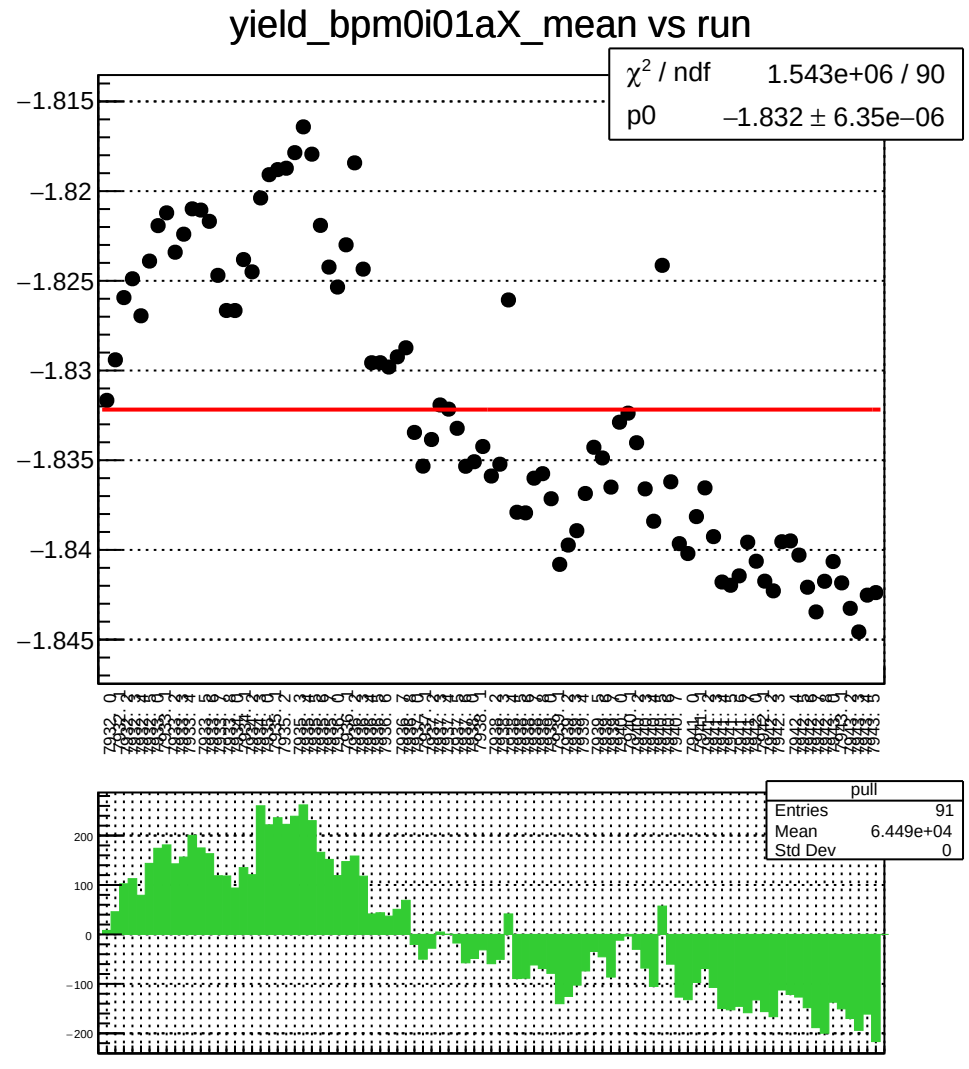

pull1D
Entries 91
Mean −1.312
Std Dev 4.16
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

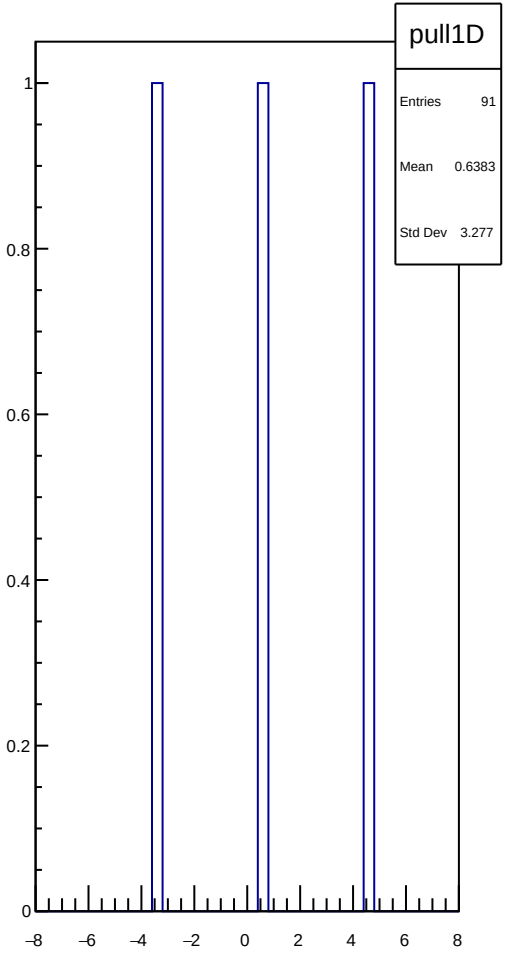

yield_bpm0i01X_rms vs run
χ² / ndf 1.327e+04 / 90
p0 0.008768 ± 6.656e−06
0.018
0.016
0.014
0.012
0.01
0.008

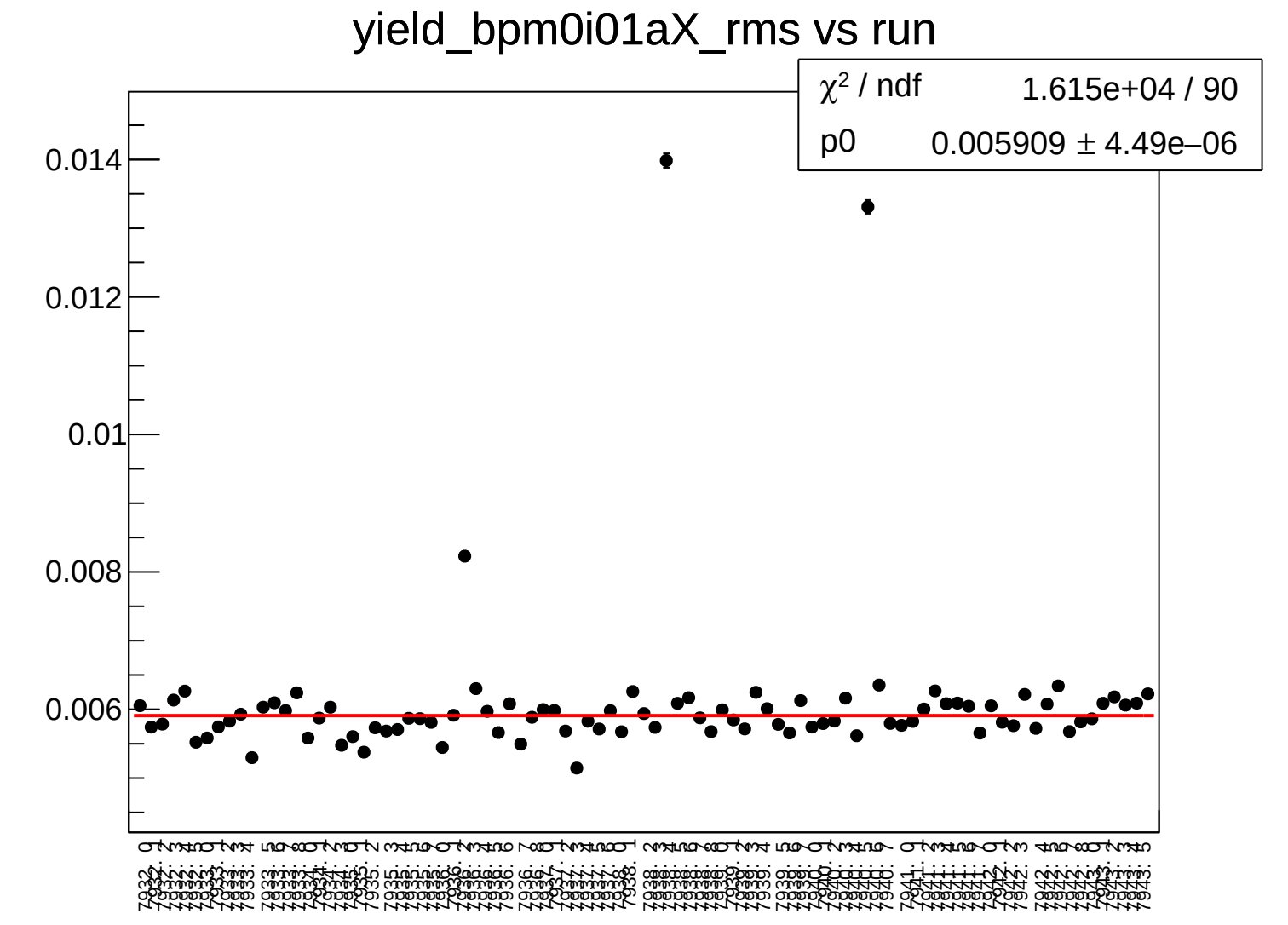

yield_bpm0i01Y_mean vs run
χ² / ndf 9.15e+05 / 90
p0 −1.363 ± 5.332e−06
−1.35
−1.355
−1.36
−1.365
−1.37
−1.375
pull
Entries 91
Mean −1347
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

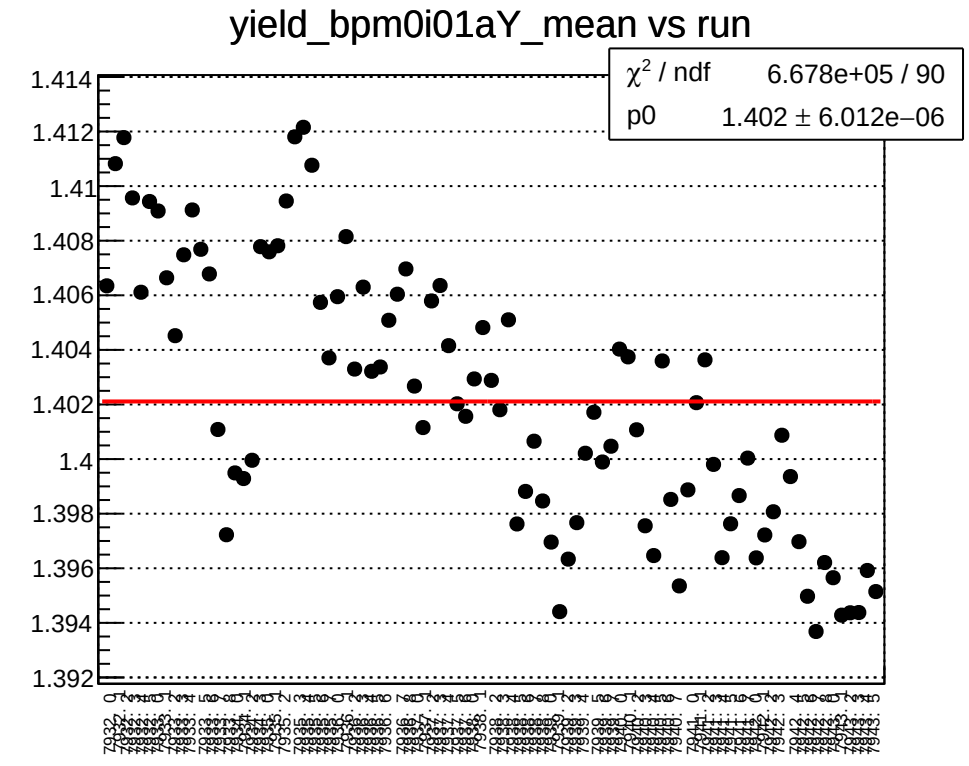

pull1D
Entries 91
Mean −1.701
Std Dev 2.253
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

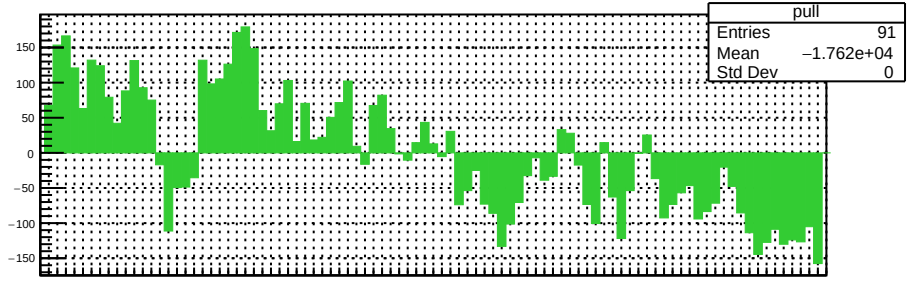

yield_bpm0i01Y_rms vs run
χ² / ndf 1.836e+04 / 90
p0 0.004959 ± 3.77e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

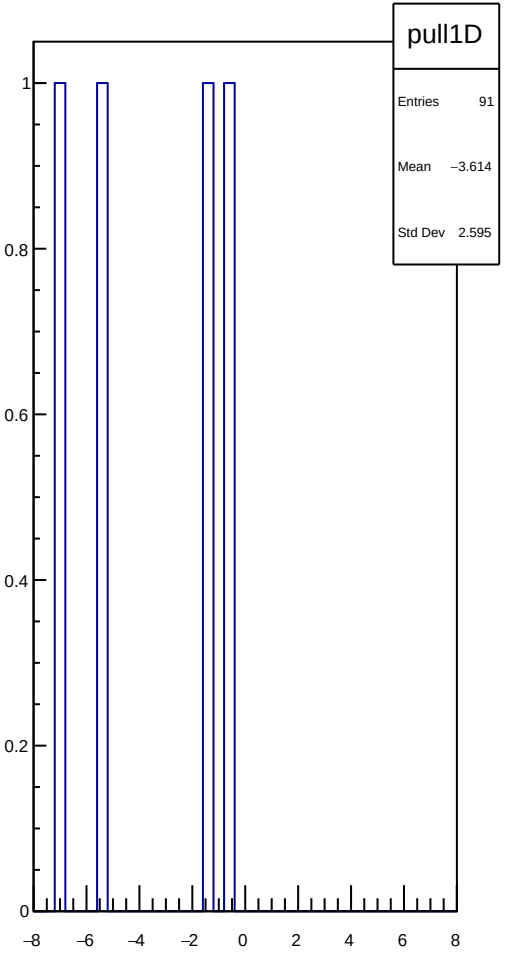

yield_bpm0i01aX_mean vs run
χ² / ndf 1.543e+06 / 90
p0 −1.832 ± 6.35e−06
−1.815
−1.82
−1.825
−1.83
−1.835
−1.84
−1.845
pull
Entries 91
Mean 6.449e+04
Std Dev 0
200
100
0
−100
−200

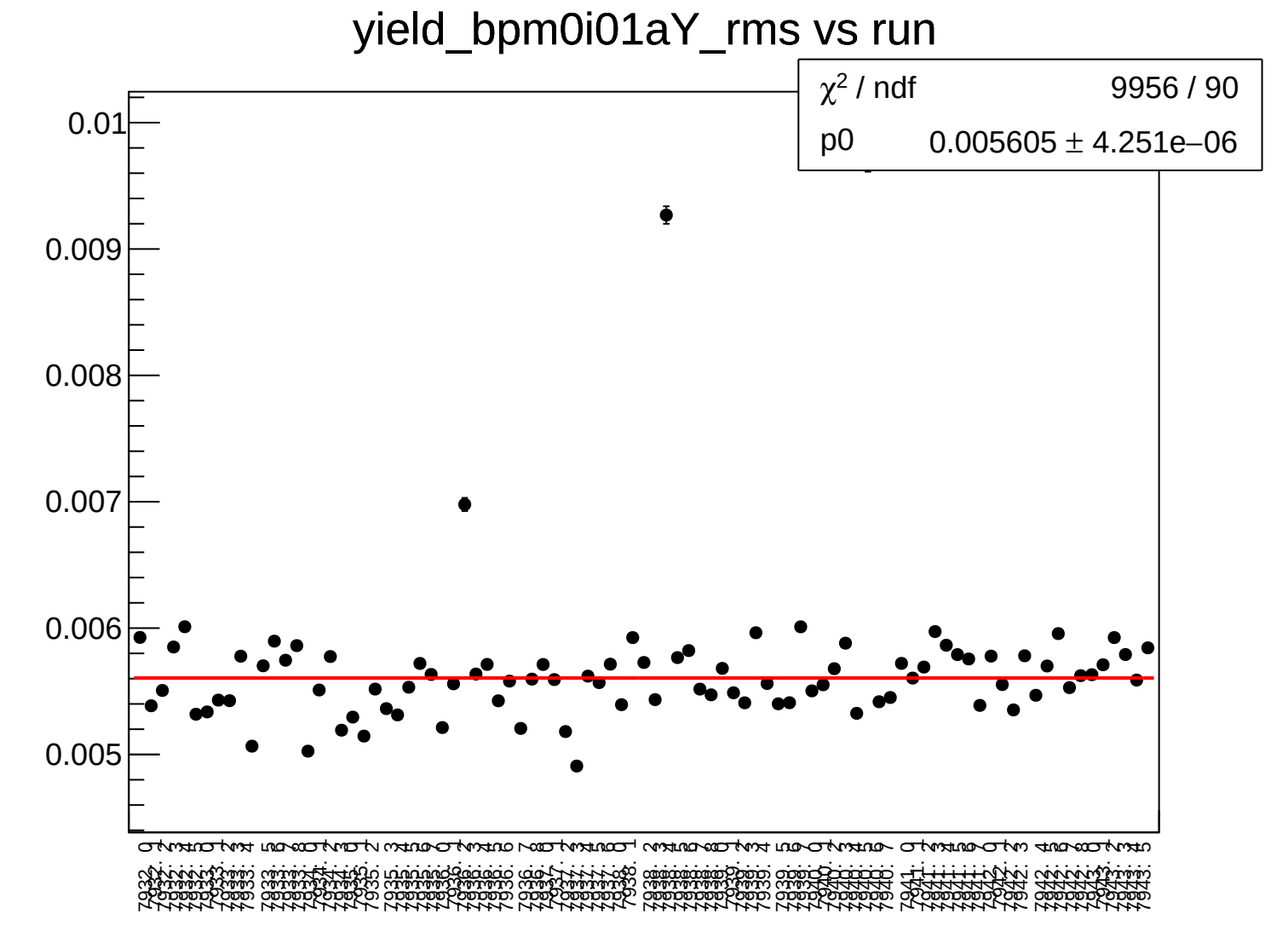

pull1D
Entries 91
Mean 0.6383
Std Dev 3.277
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

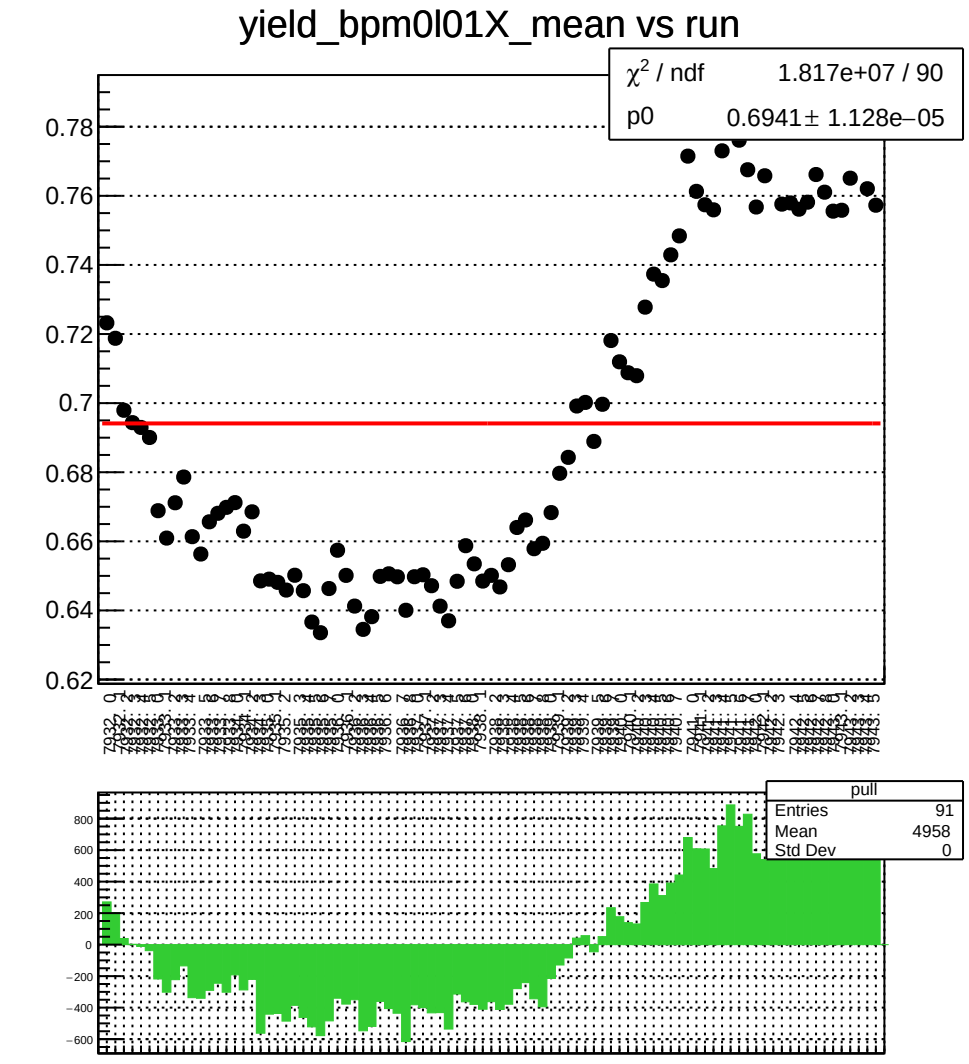

yield_bpm0i01aX_rms vs run
χ² / ndf 1.615e+04 / 90
p0 0.005909 ± 4.49e–06
0.014
0.012
0.01
0.008
0.006

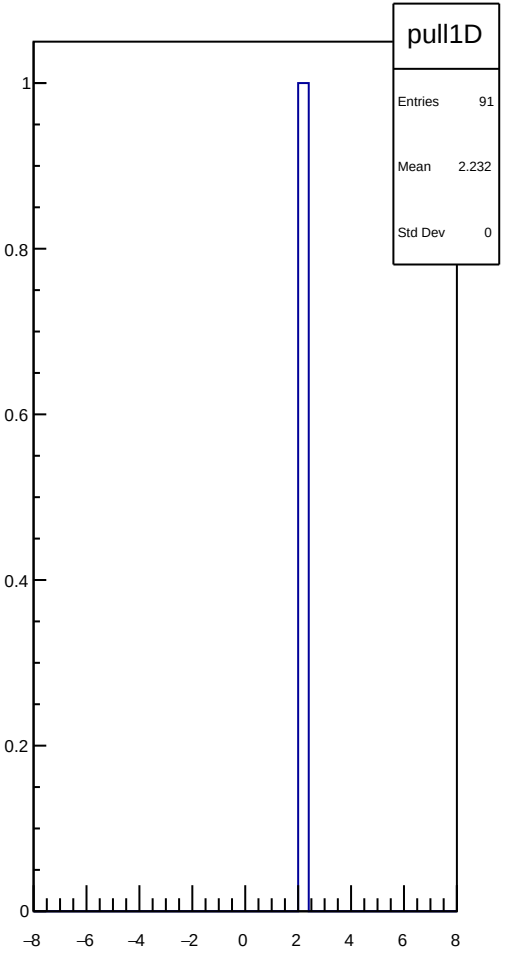

yield_bpm0i01aY_mean vs run
χ² / ndf 6.678e+05 / 90
p0 1.402 ± 6.012e−06
1.414
1.412
1.41
1.408
1.406
1.404
1.402
1.4
1.398
1.396
1.394
1.392

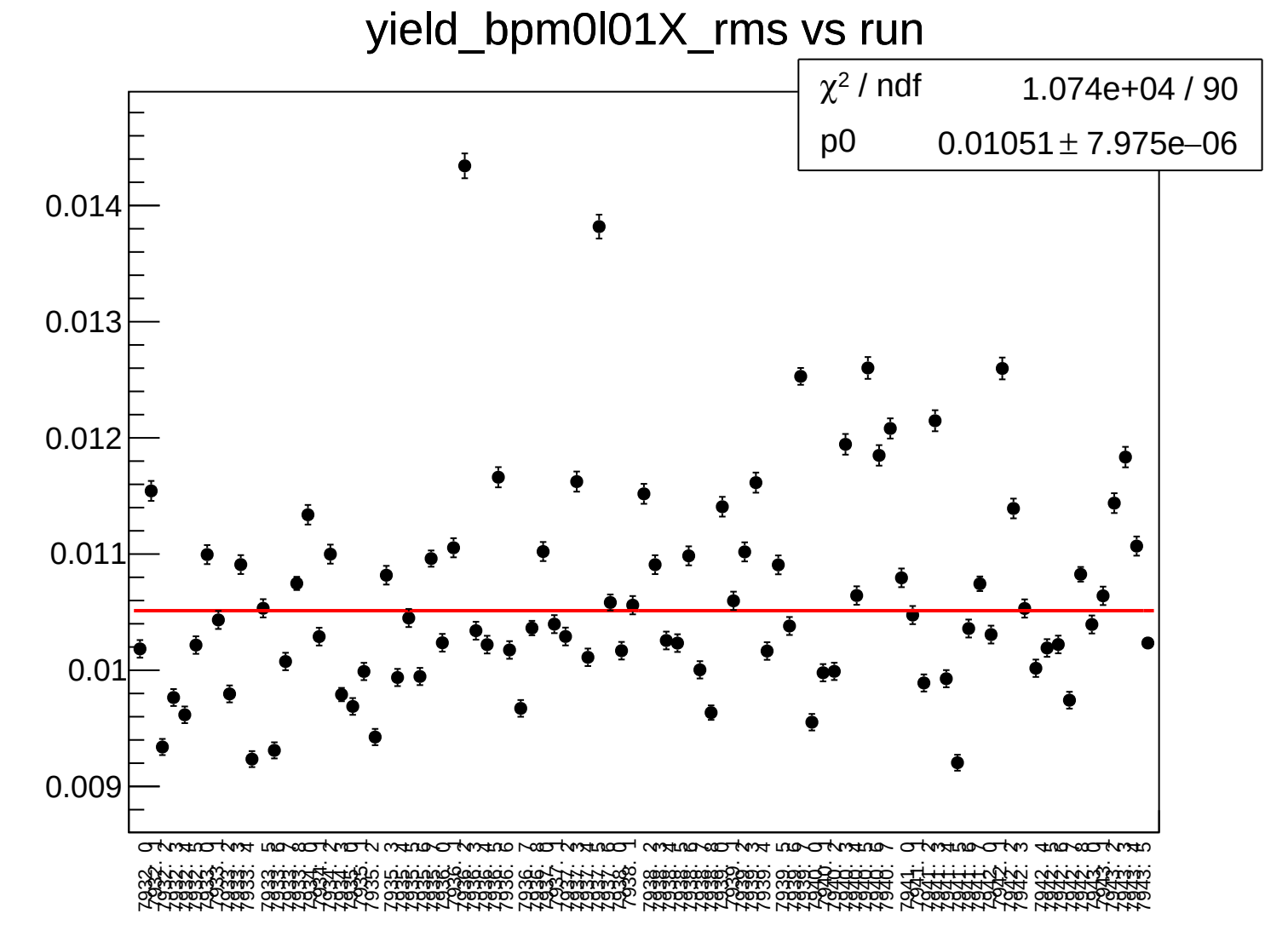

pull
Entries 91
Mean −1.762e+04
Std Dev 0
150
100
50
0
−50
−100
−150

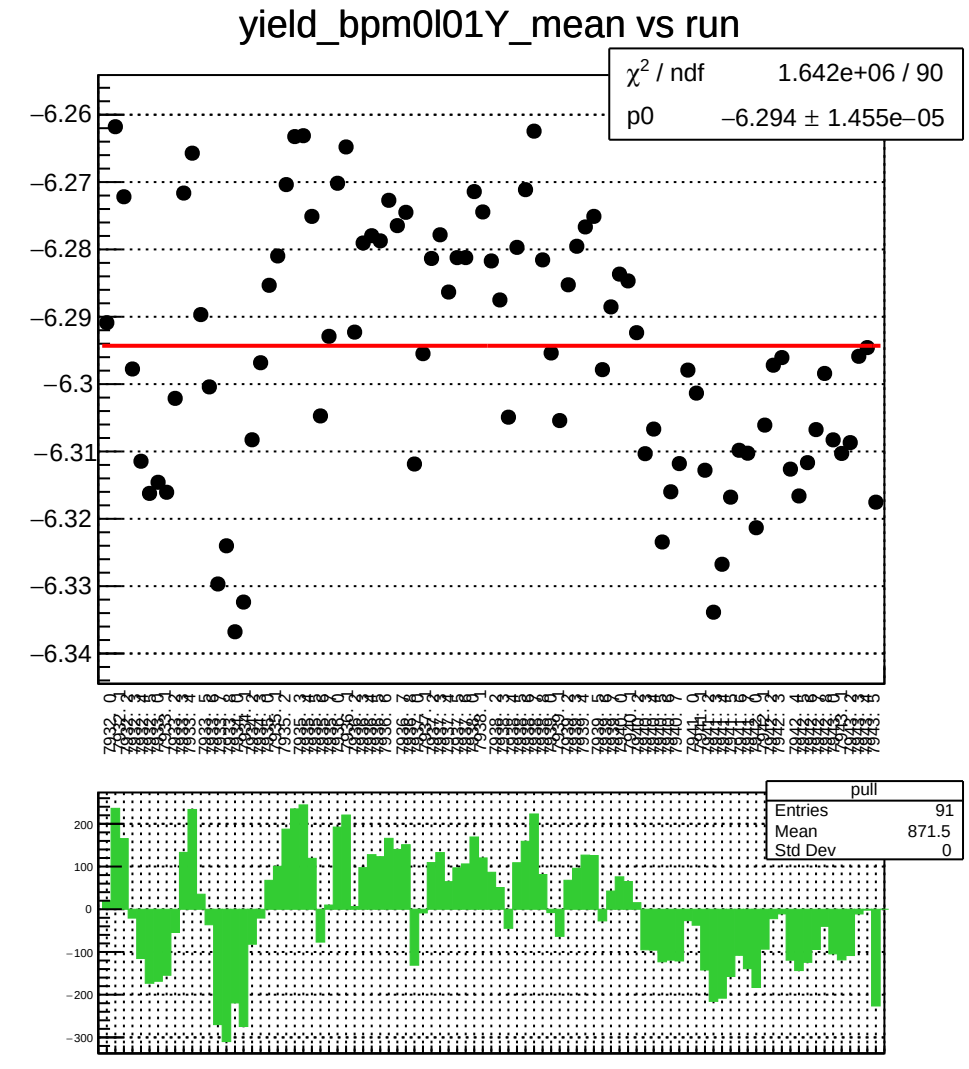

pull1D
Entries 91
Mean −3.614
Std Dev 2.595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

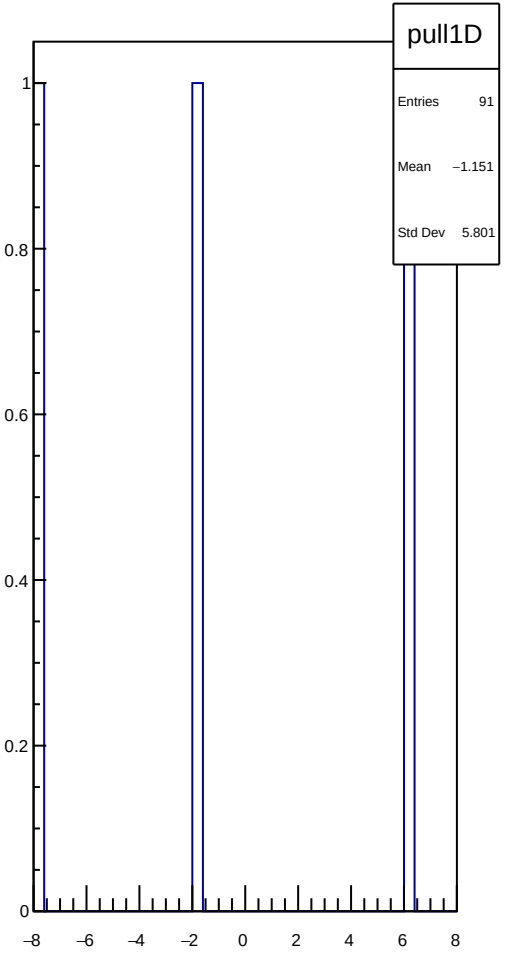

yield_bpm0i01aY_rms vs run
χ² / ndf 9956 / 90
p0 0.005605 ± 4.251e−06
0.01
0.009
0.008
0.007
0.006
0.005

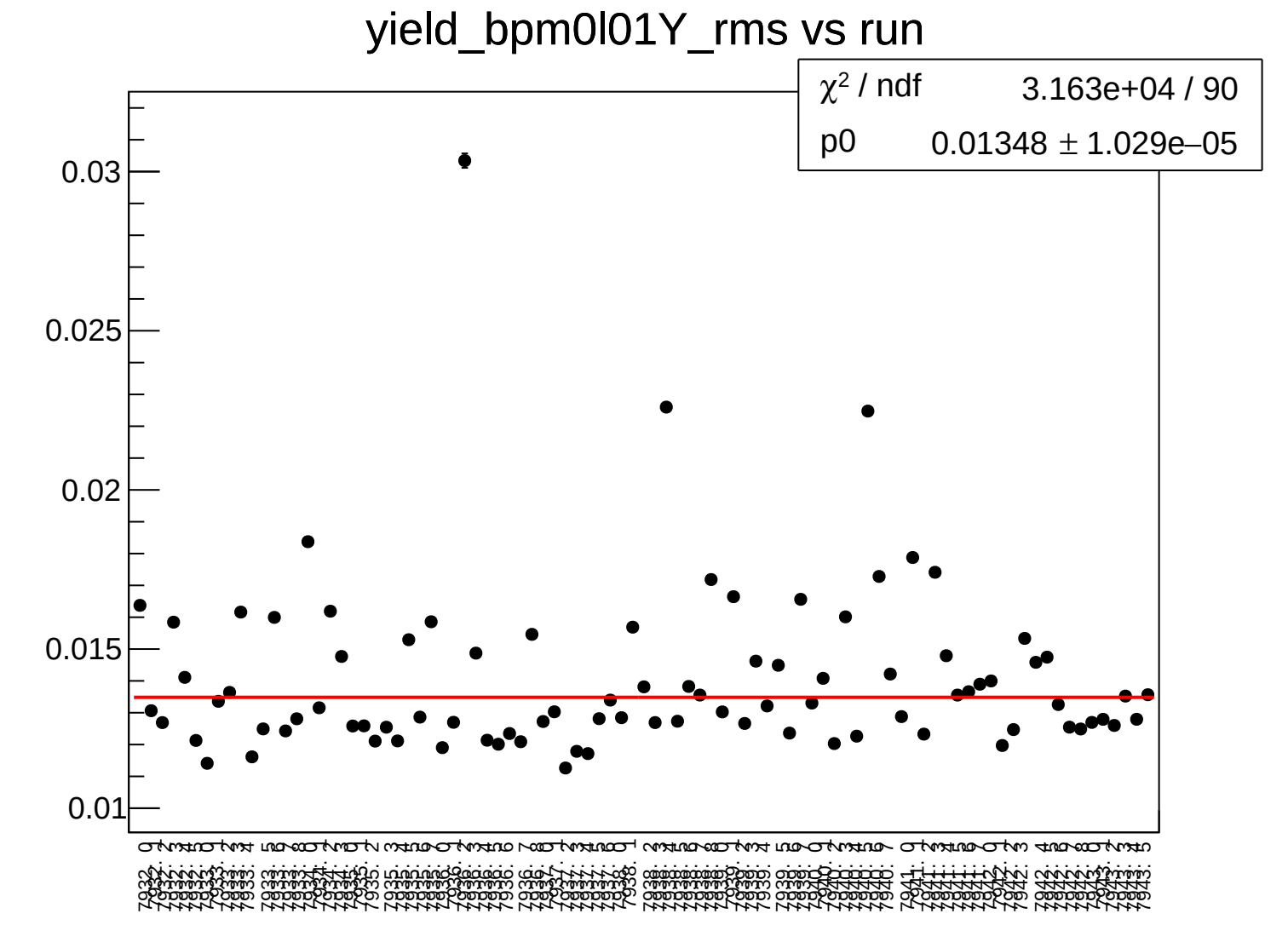

yield_bpm0l01X_mean vs run
χ² / ndf 1.817e+07 / 90
p0 0.6941 ± 1.128e−05
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
0.62
pull
Entries 91
Mean 4958
Std Dev 0
800
600
400
200
0
−200
−400
−600

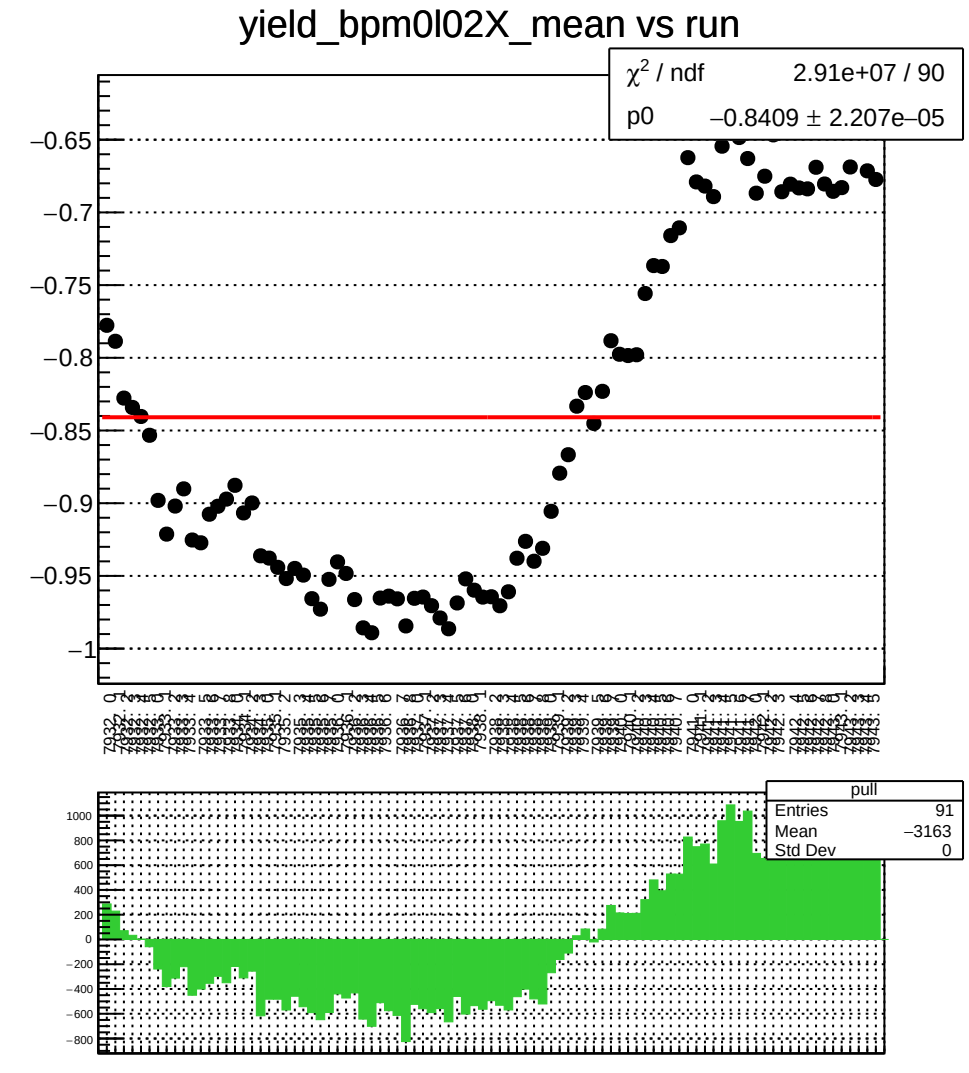

pull1D
Entries 91
Mean 2.232
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

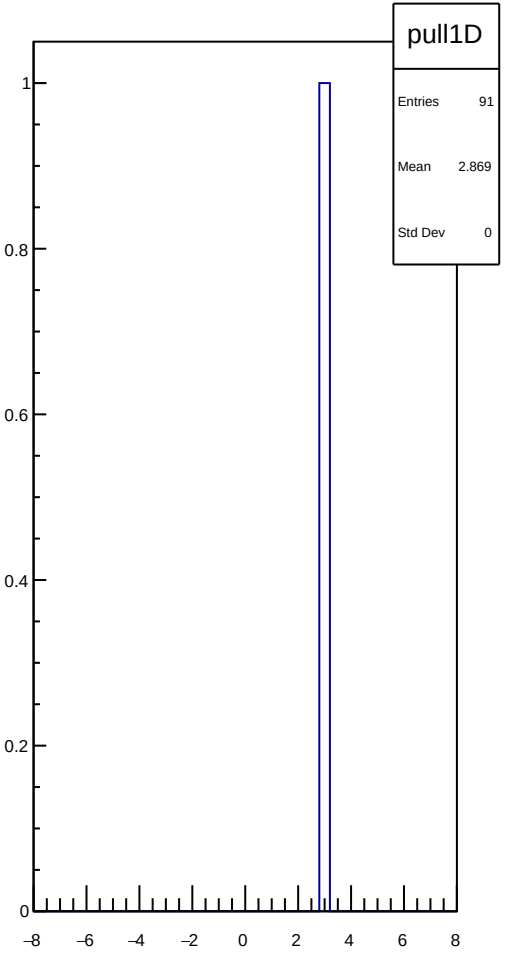

yield_bpm0l01X_rms vs run
χ² / ndf 1.074e+04 / 90
p0 0.01051 ± 7.975e–06
0.014
0.013
0.012
0.011
0.01
0.009

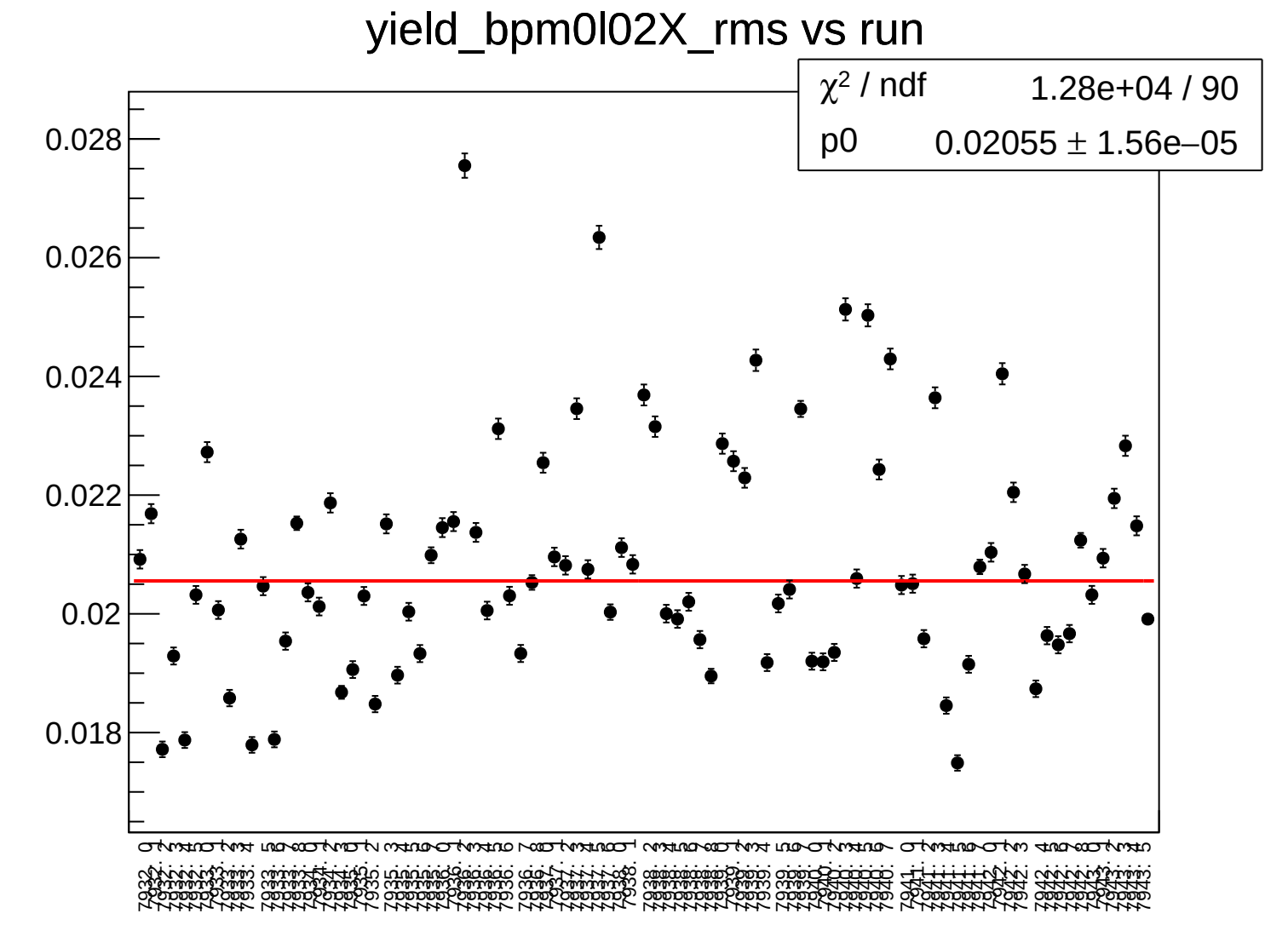

yield_bpm0l01Y_mean vs run
χ² / ndf 1.642e+06 / 90
p0 −6.294 ± 1.455e−05
−6.26
−6.27
−6.28
−6.29
−6.3
−6.31
−6.32
−6.33
−6.34
pull
Entries 91
Mean 871.5
Std Dev 0
200
100
0
−100
−200
−300

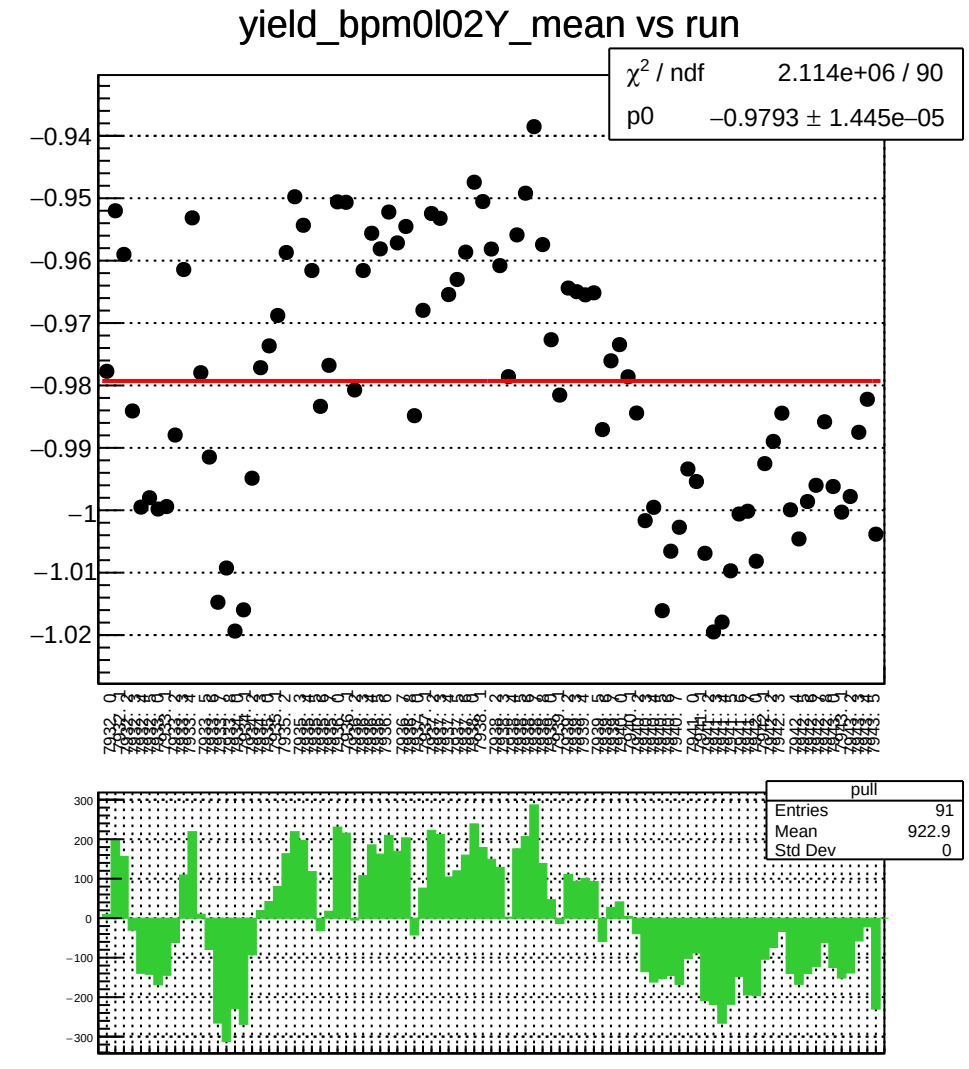

pull1D
Entries 91
Mean −1.151
Std Dev 5.801
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

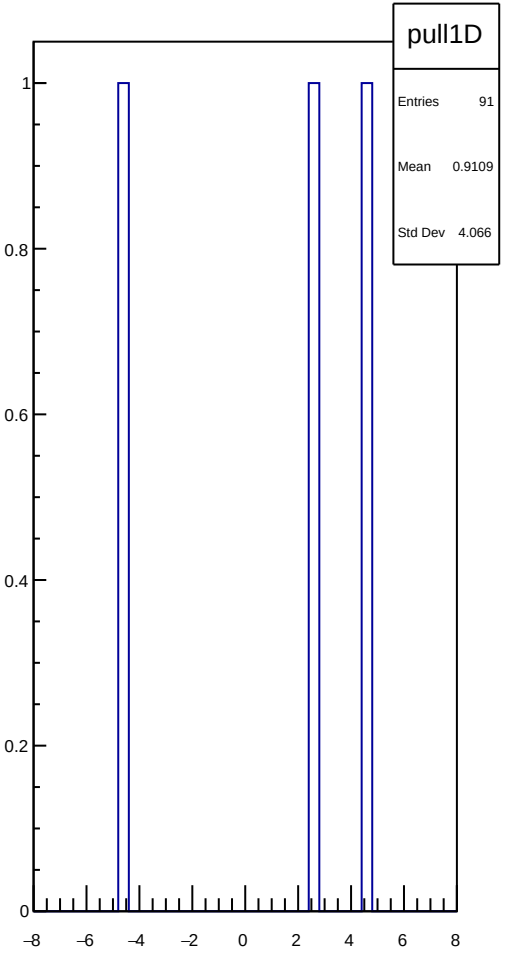

yield_bpm0l01Y_rms vs run
χ² / ndf 3.163e+04 / 90
p0 0.01348 ± 1.029e–05
0.03
0.025
0.02
0.015
0.01

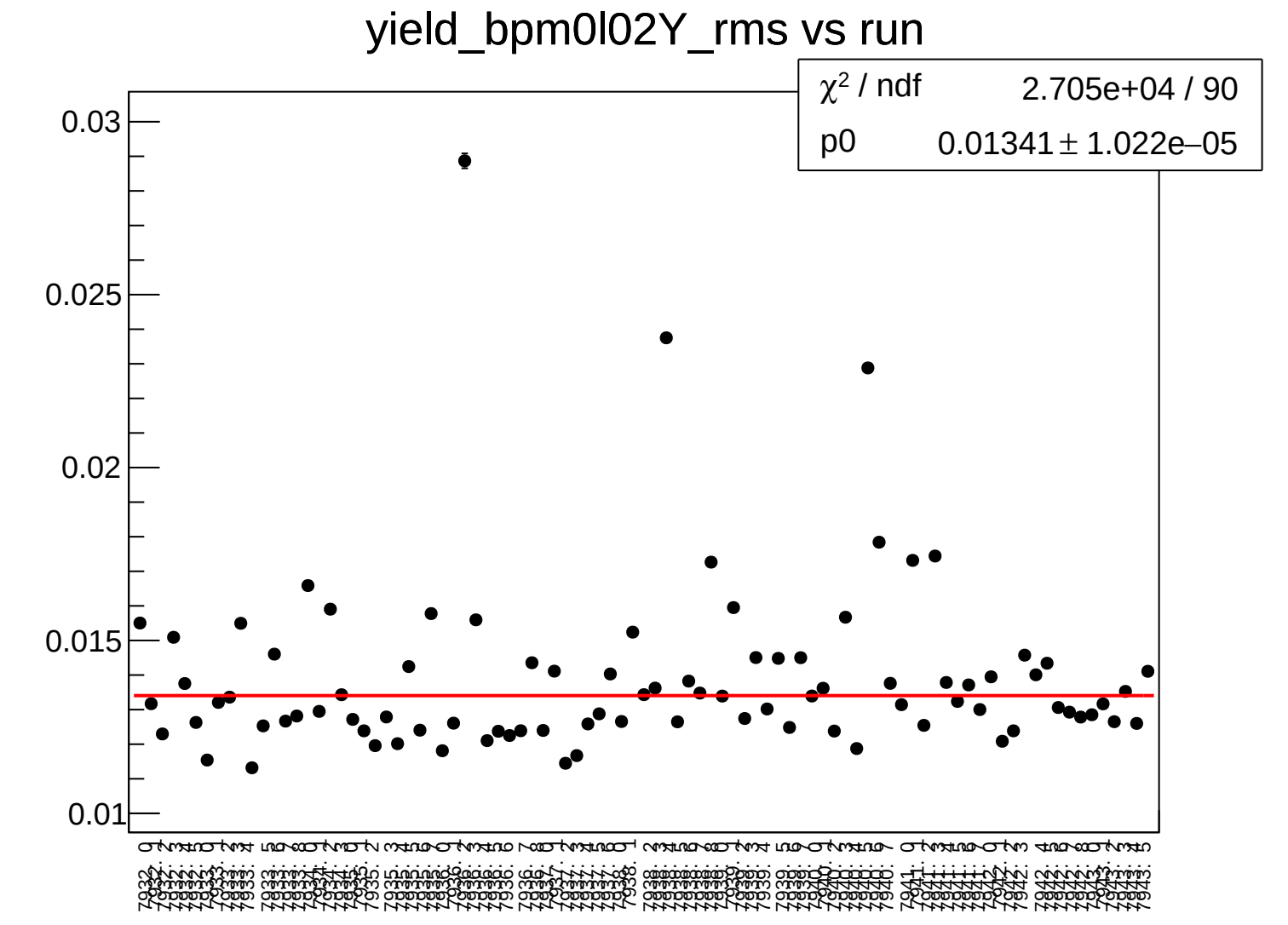

yield_bpm0l02X_mean vs run
χ² / ndf 2.91e+07 / 90
p0 −0.8409 ± 2.207e−05
pull
Entries 91
Mean −3163
Std Dev 0

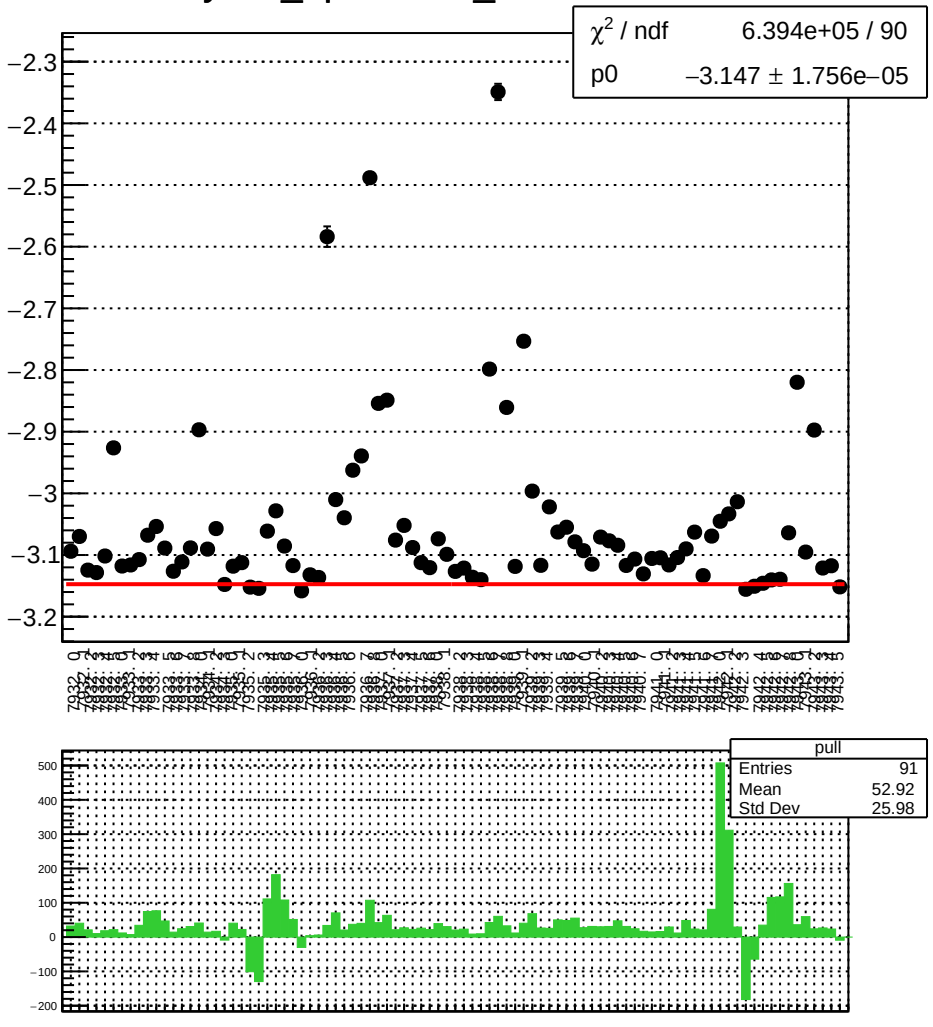

pull1D
Entries 91
Mean 2.869
Std Dev 0

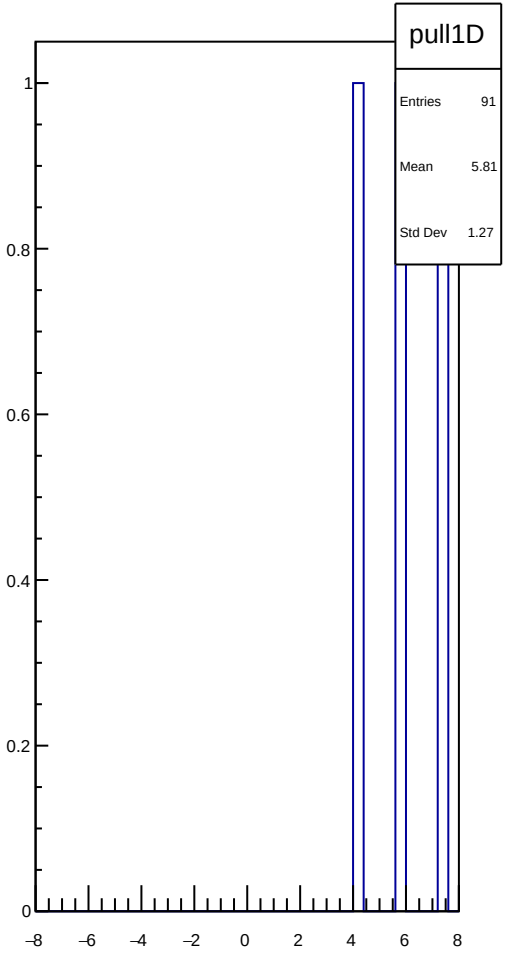

yield_bpm0l02X_rms vs run
χ² / ndf 1.28e+04 / 90
p0 0.02055 ± 1.56e−05
0.028
0.026
0.024
0.022
0.02
0.018

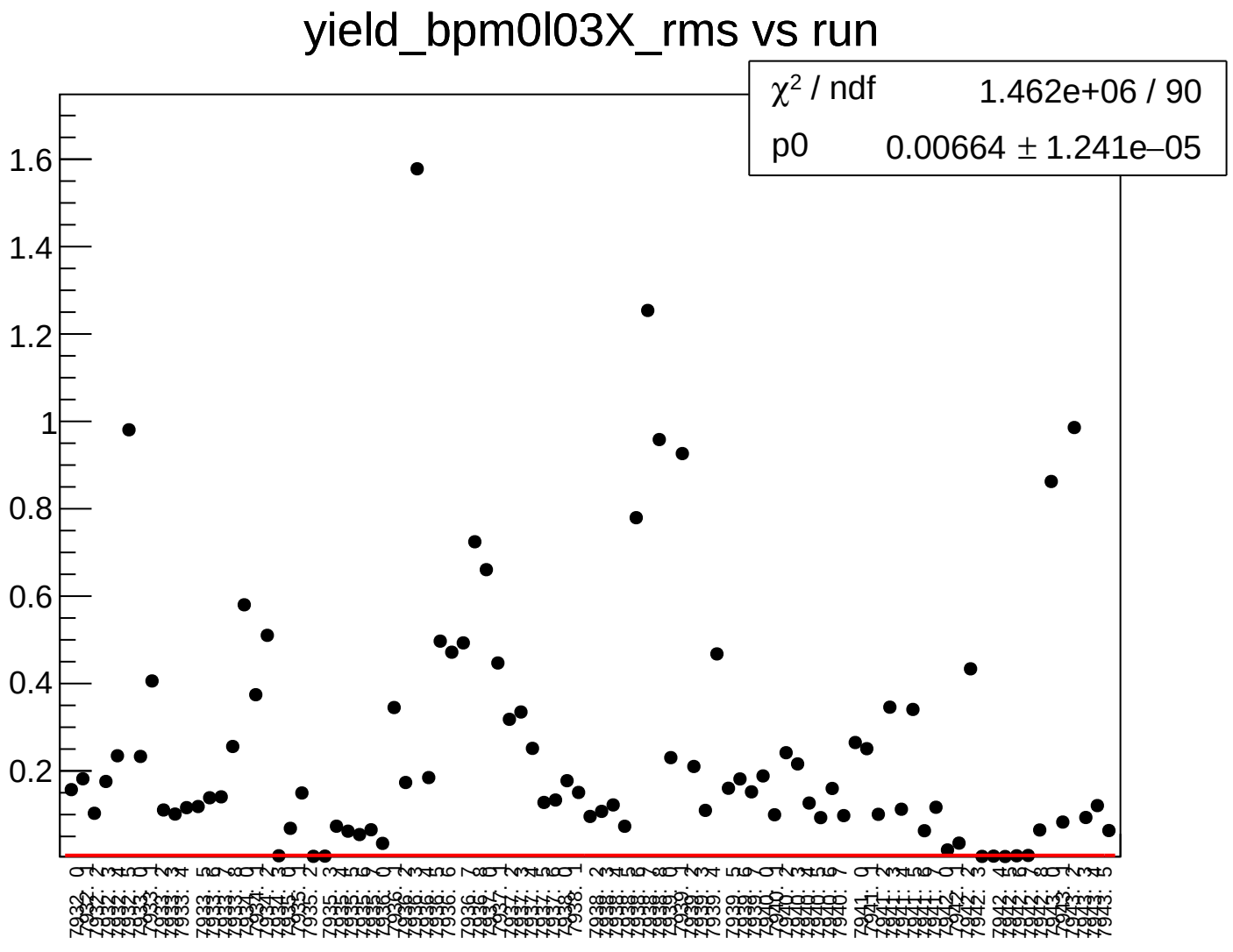

yield_bpm0l02Y_mean vs run
χ² / ndf 2.114e+06 / 90
p0 −0.9793 ± 1.445e−05
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
−1
−1.01
−1.02
pull
Entries 91
Mean 922.9
Std Dev 0
300
200
100
0
−100
−200
−300

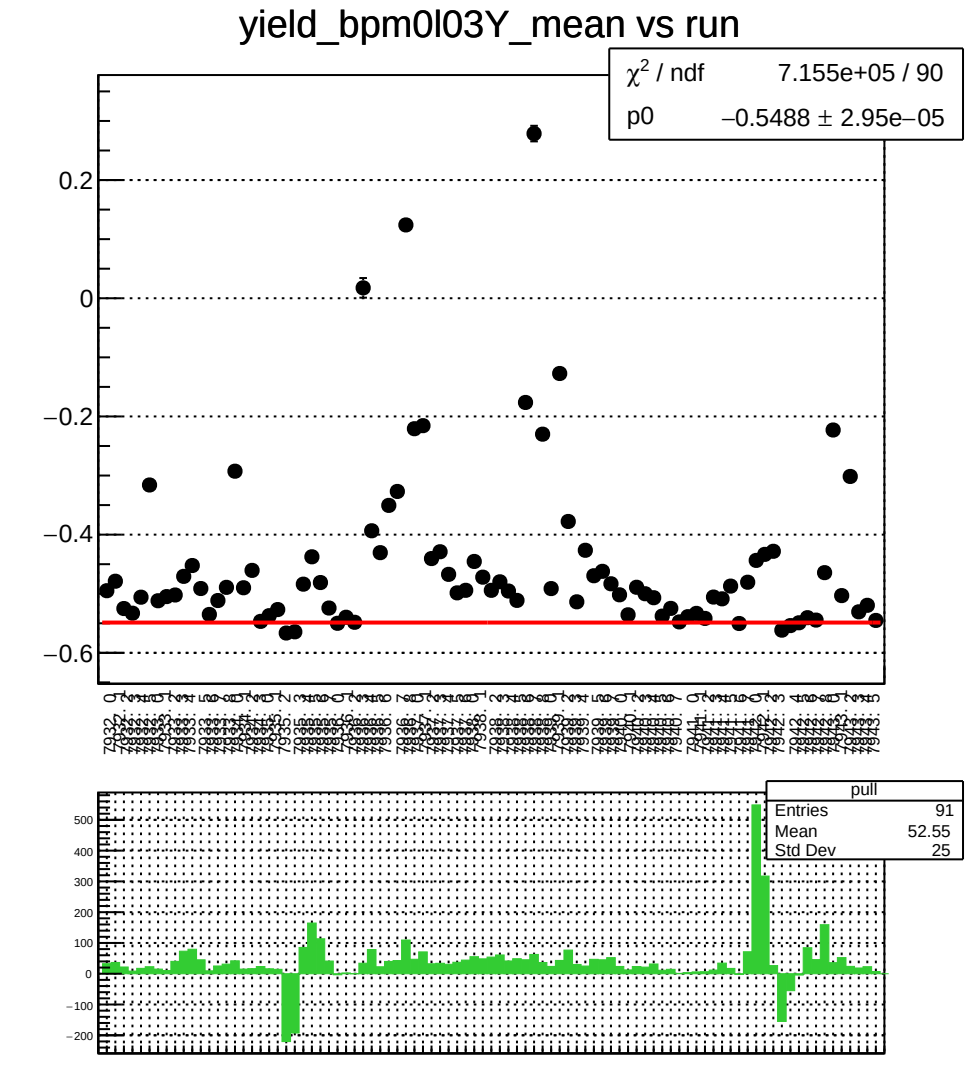

pull1D
Entries 91
Mean 0.9109
Std Dev 4.066
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

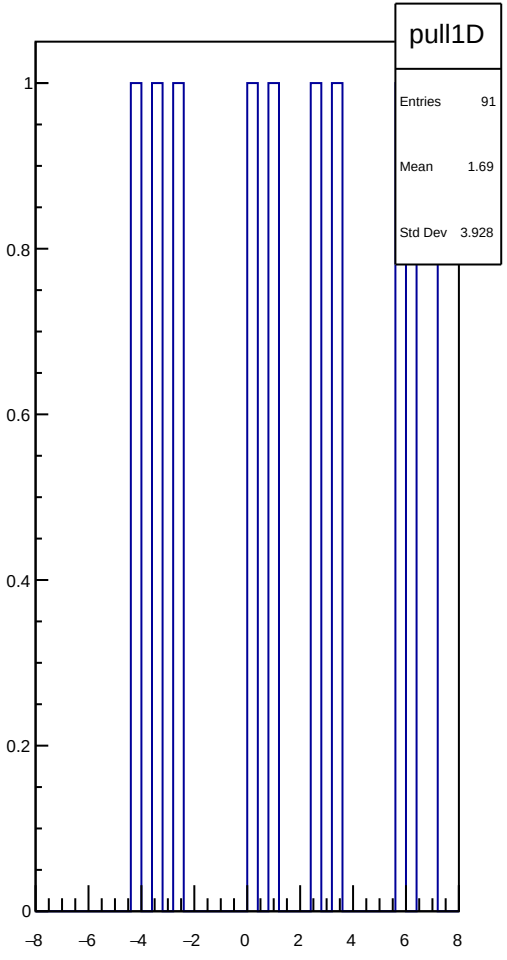

yield_bpm0l02Y_rms vs run
χ² / ndf 2.705e+04 / 90
p0 0.01341 ± 1.022e–05
0.03
0.025
0.02
0.015
0.01

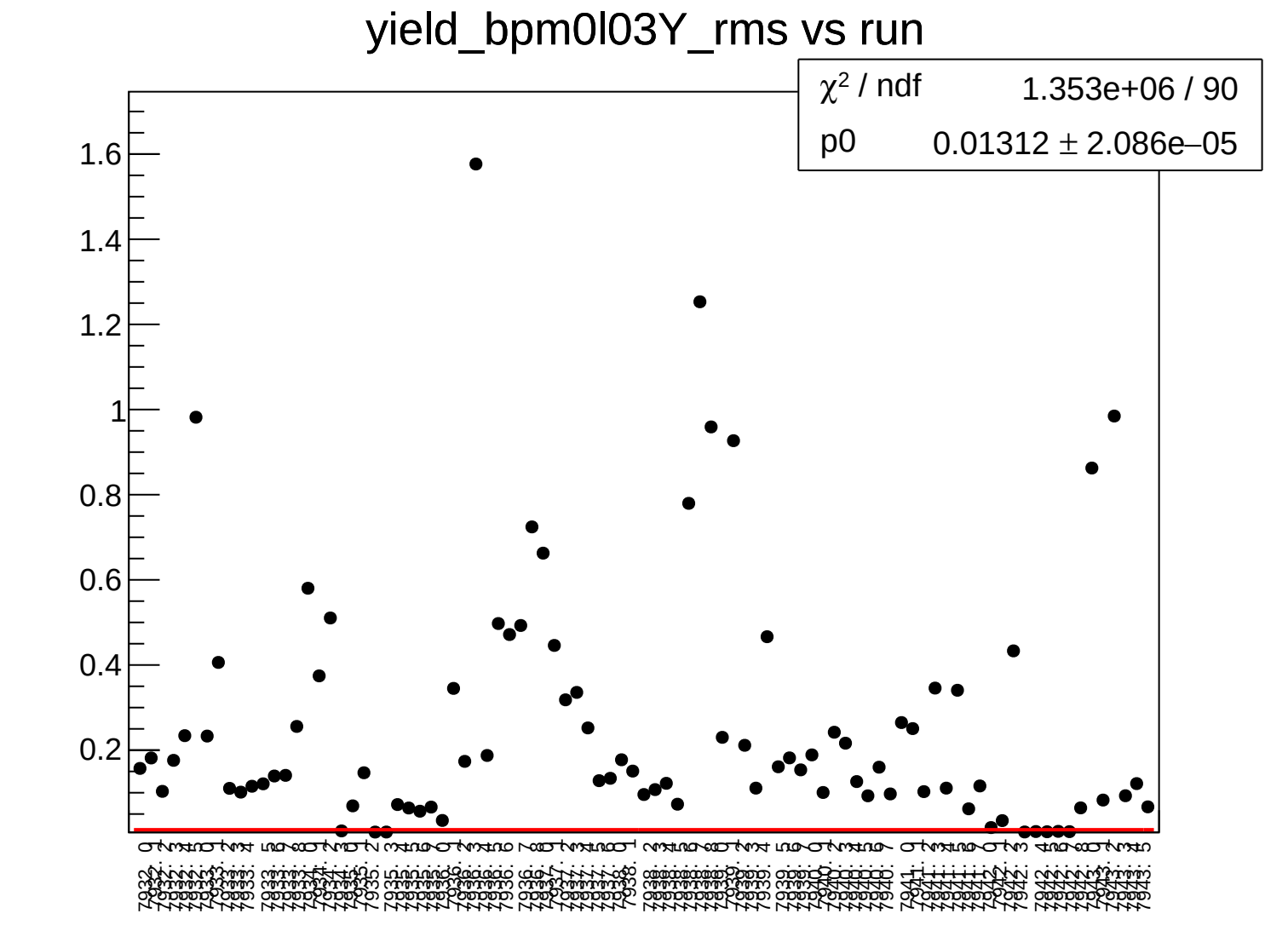

yield_bpm0l03X_mean vs run
χ² / ndf 6.394e+05 / 90
p0 −3.147 ± 1.756e−05
pull
Entries 91
Mean 52.92
Std Dev 25.98

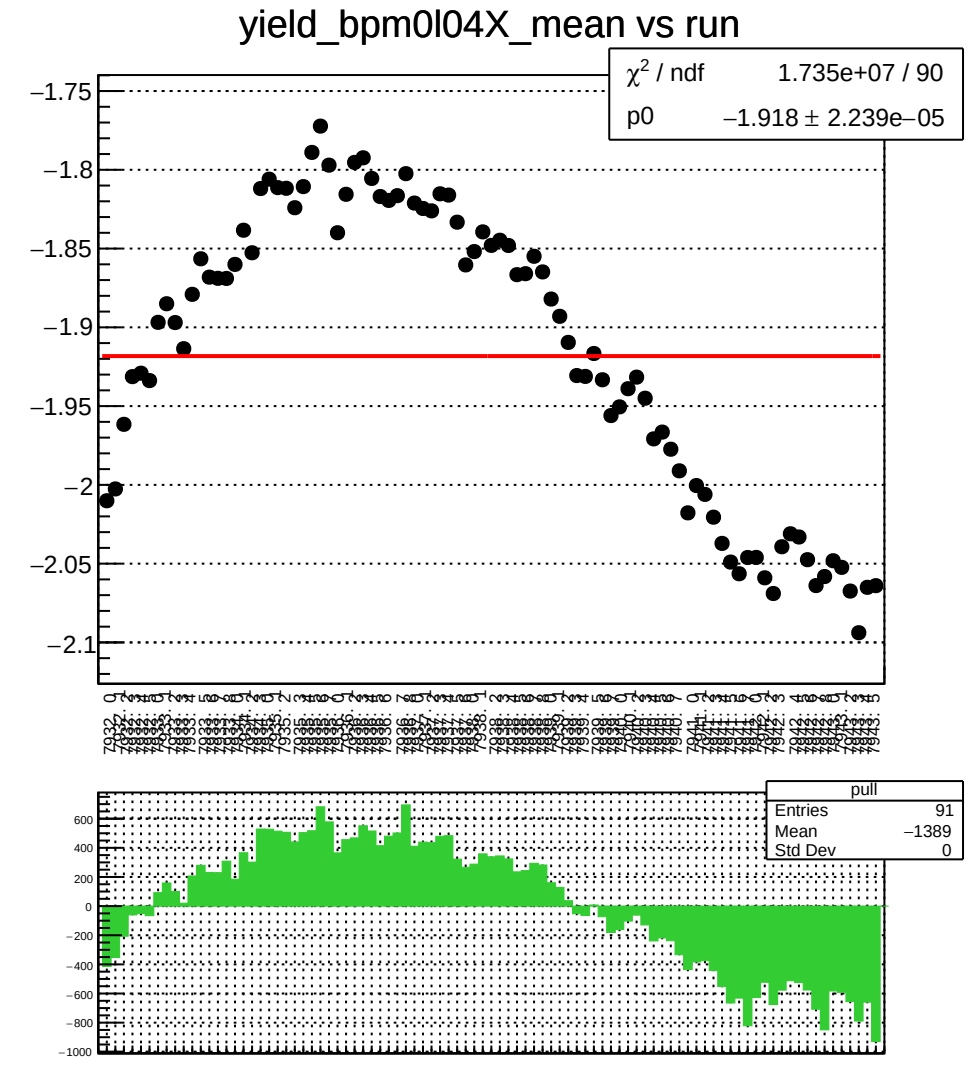

pull1D
Entries 91
Mean 5.81
Std Dev 1.27

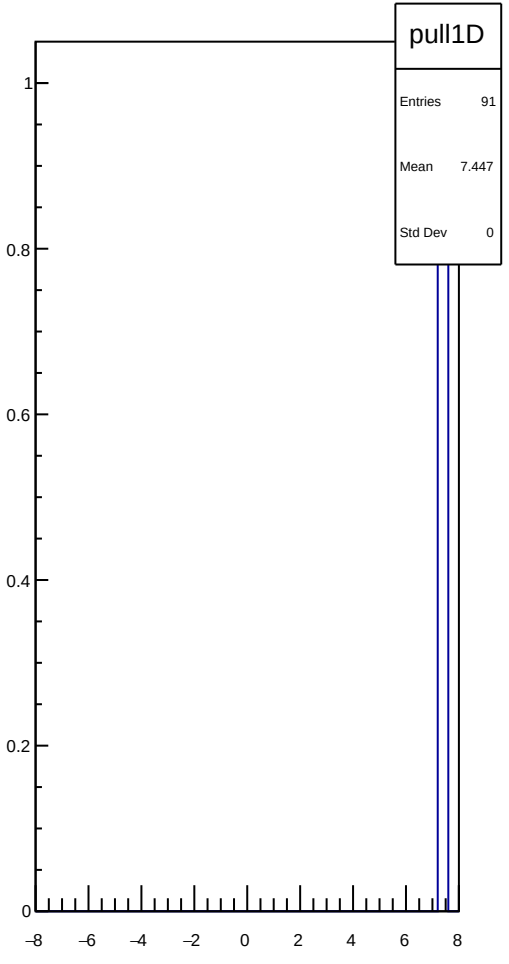

yield_bpm0l03X_rms vs run
χ² / ndf 1.462e+06 / 90
p0 0.00664 ± 1.241e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

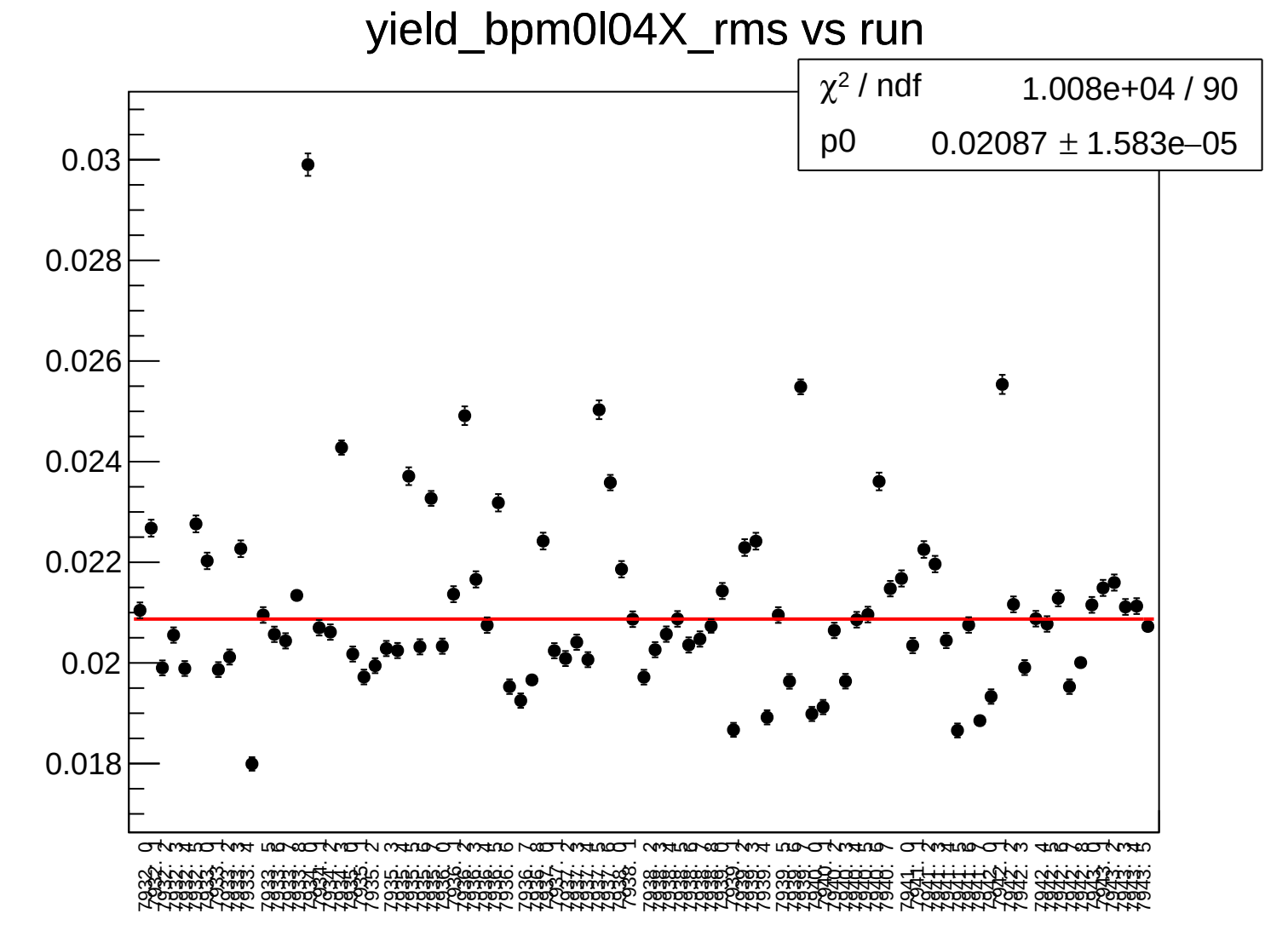

yield_bpm0l03Y_mean vs run
χ² / ndf 7.155e+05 / 90
p0 −0.5488 ± 2.95e−05
0.2
0
−0.2
−0.4
−0.6
pull
Entries 91
Mean 52.55
Std Dev 25
500
400
300
200
100
0
−100
−200

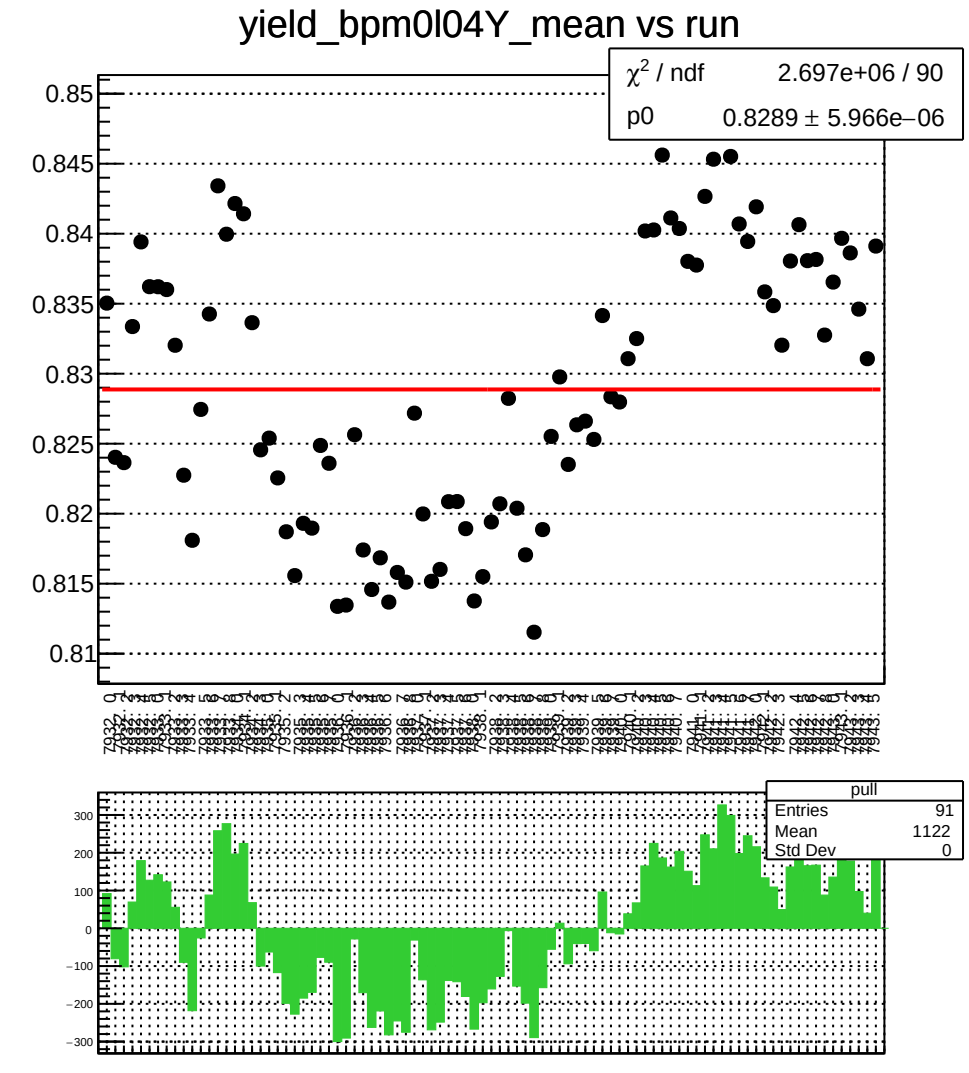

pull1D
Entries 91
Mean 1.69
Std Dev 3.928
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

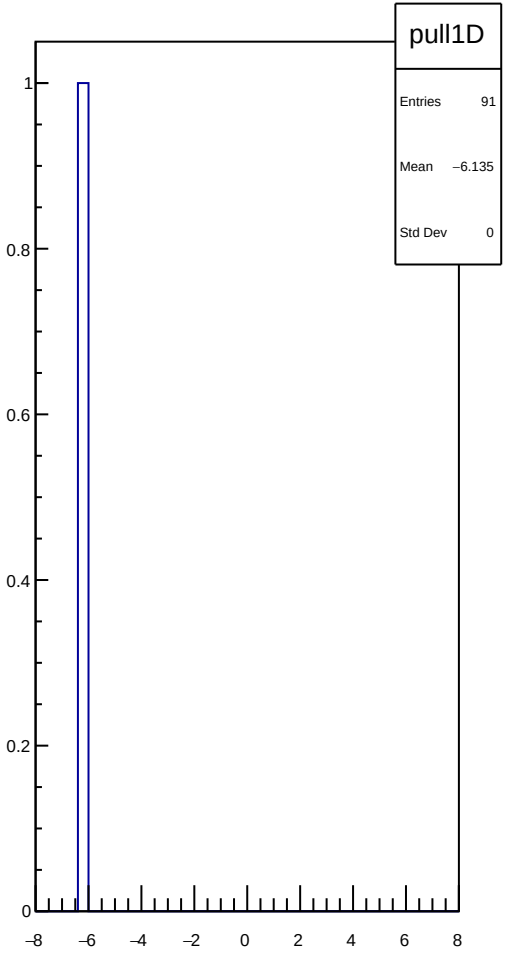

yield_bpm0l03Y_rms vs run
χ² / ndf 1.353e+06 / 90
p0 0.01312 ± 2.086e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

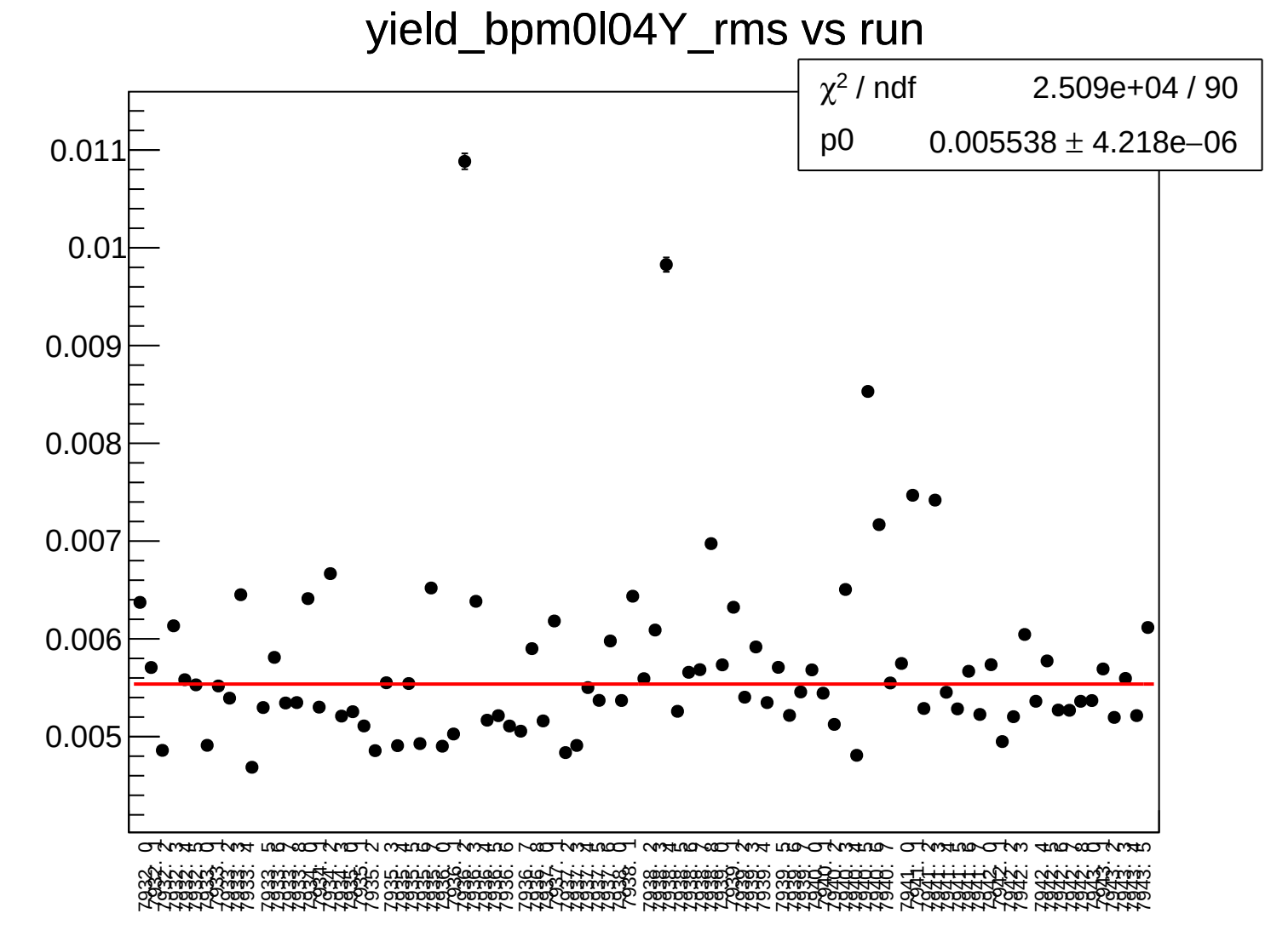

yield_bpm0l04X_mean vs run
χ² / ndf 1.735e+07 / 90
p0 −1.918 ± 2.239e−05
−1.75
−1.8
−1.85
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 91
Mean −1389
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

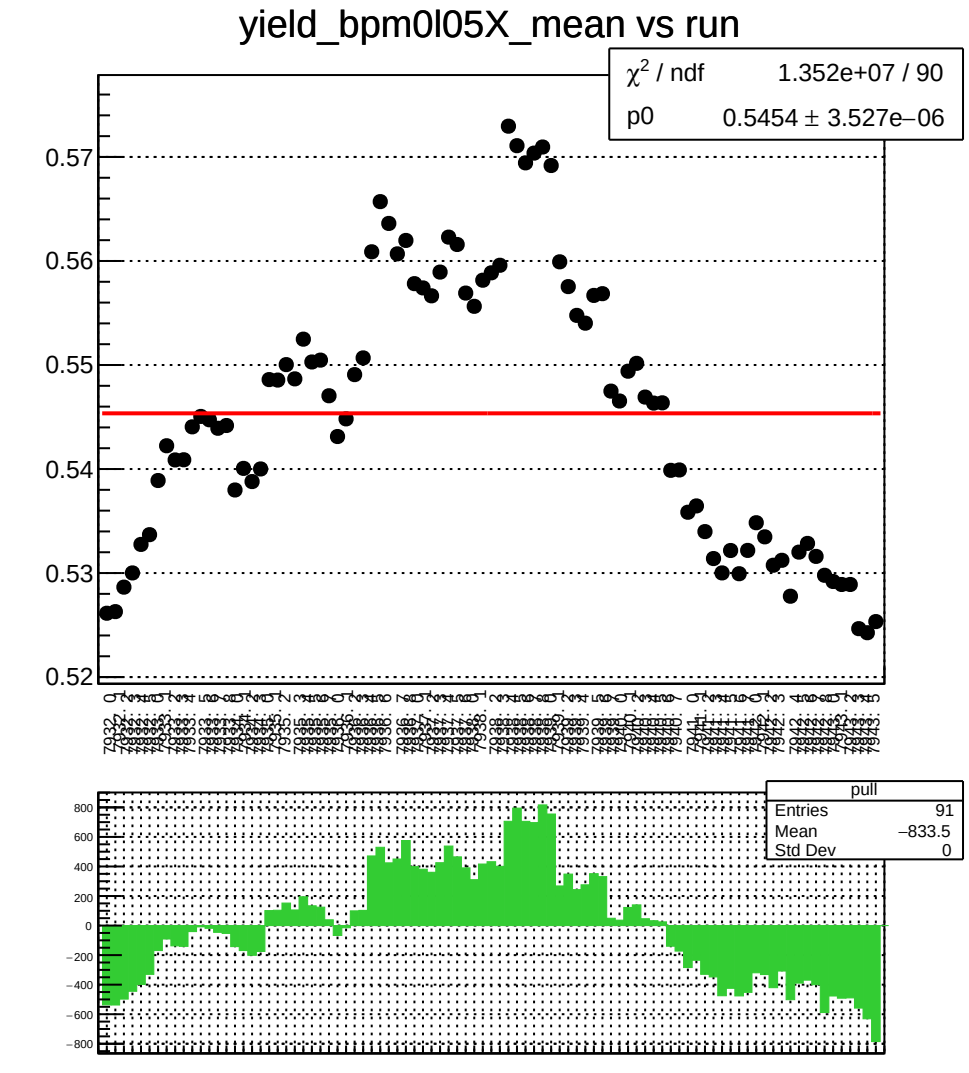

pull1D
Entries 91
Mean 7.447
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

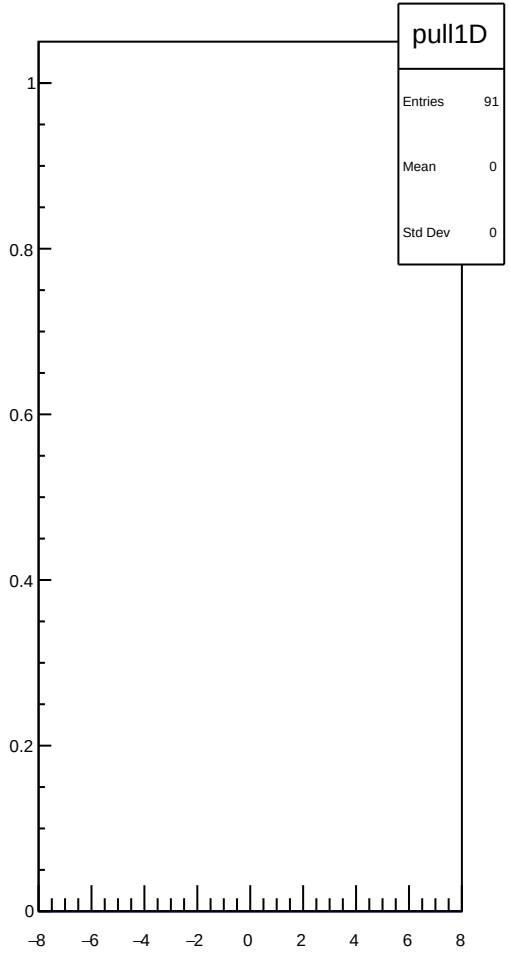

yield_bpm0l04X_rms vs run
χ² / ndf 1.008e+04 / 90
p0 0.02087 ± 1.583e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018

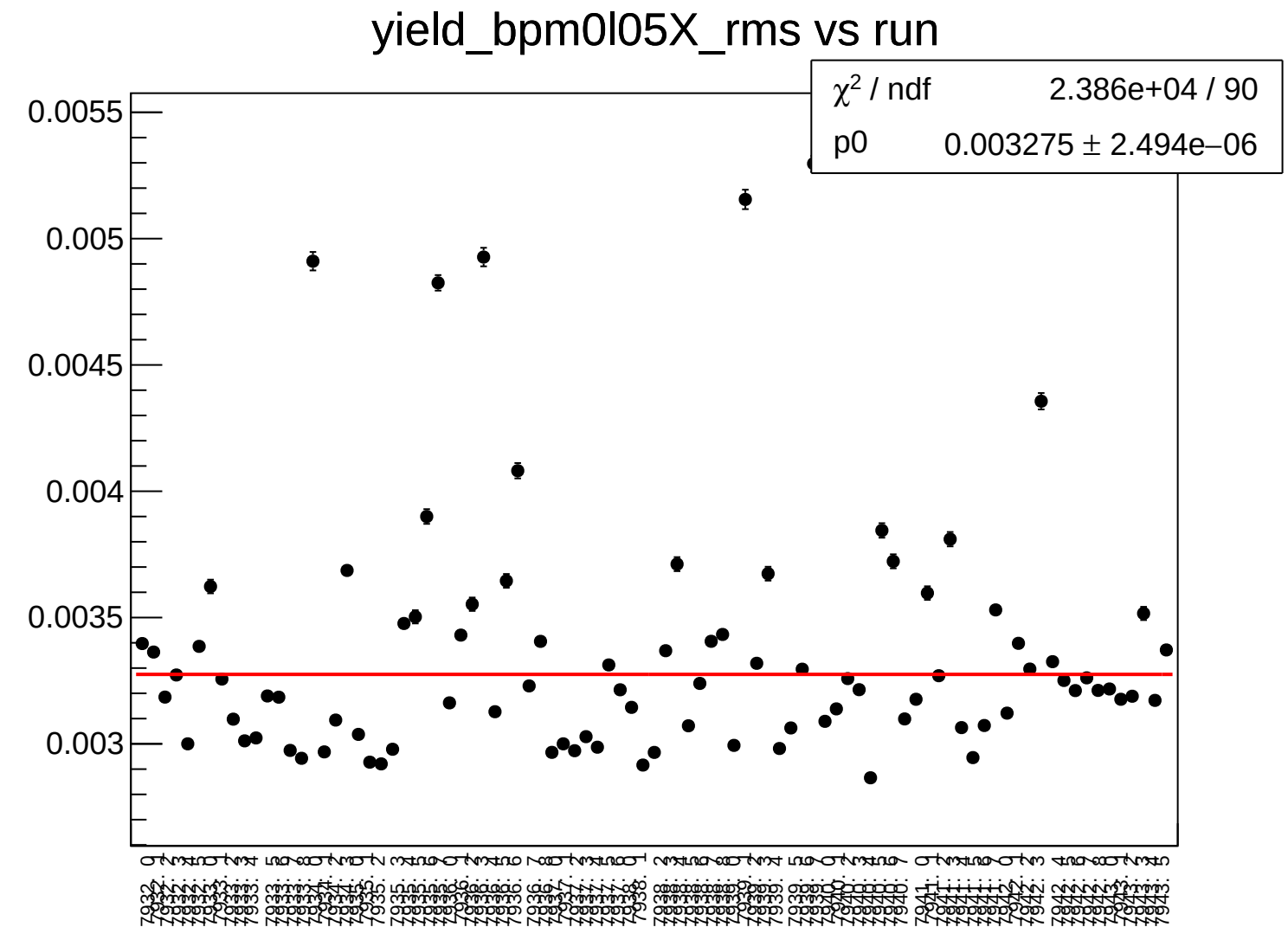

yield_bpm0l04Y_mean vs run
χ² / ndf 2.697e+06 / 90
p0 0.8289 ± 5.966e−06
0.85
0.845
0.84
0.835
0.83
0.825
0.82
0.815
0.81
pull
Entries 91
Mean 1122
Std Dev 0
300
200
100
0
−100
−200
−300

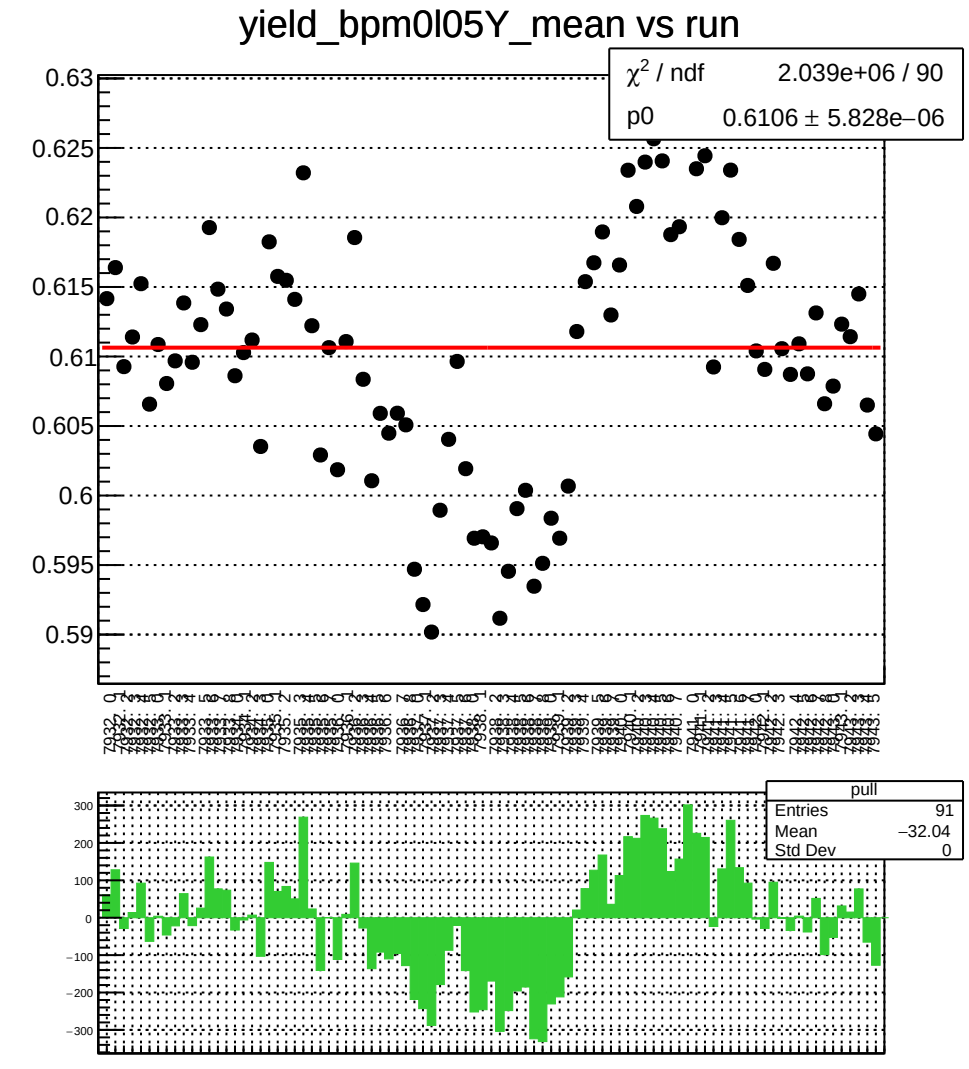

pull1D
Entries 91
Mean −6.135
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

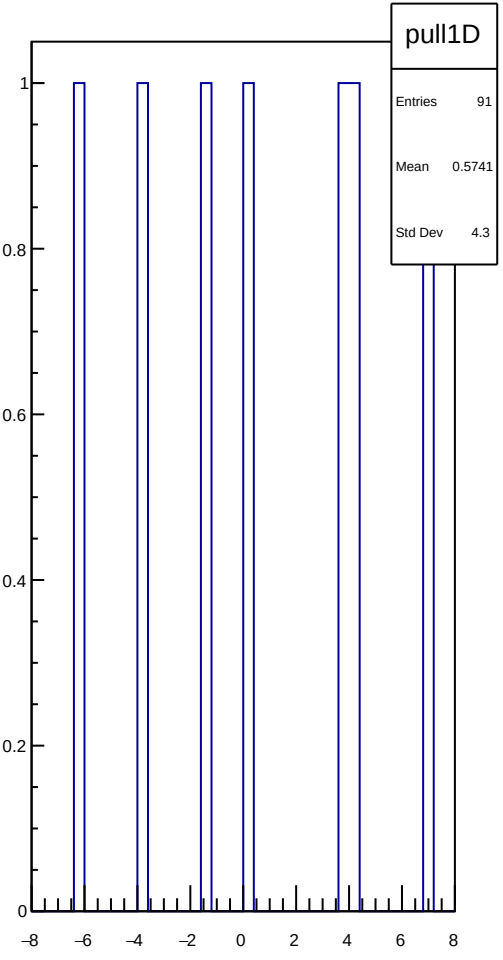

yield_bpm0l04Y_rms vs run
χ^2 / ndf 2.509e+04 / 90
p0 0.005538 ± 4.218e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

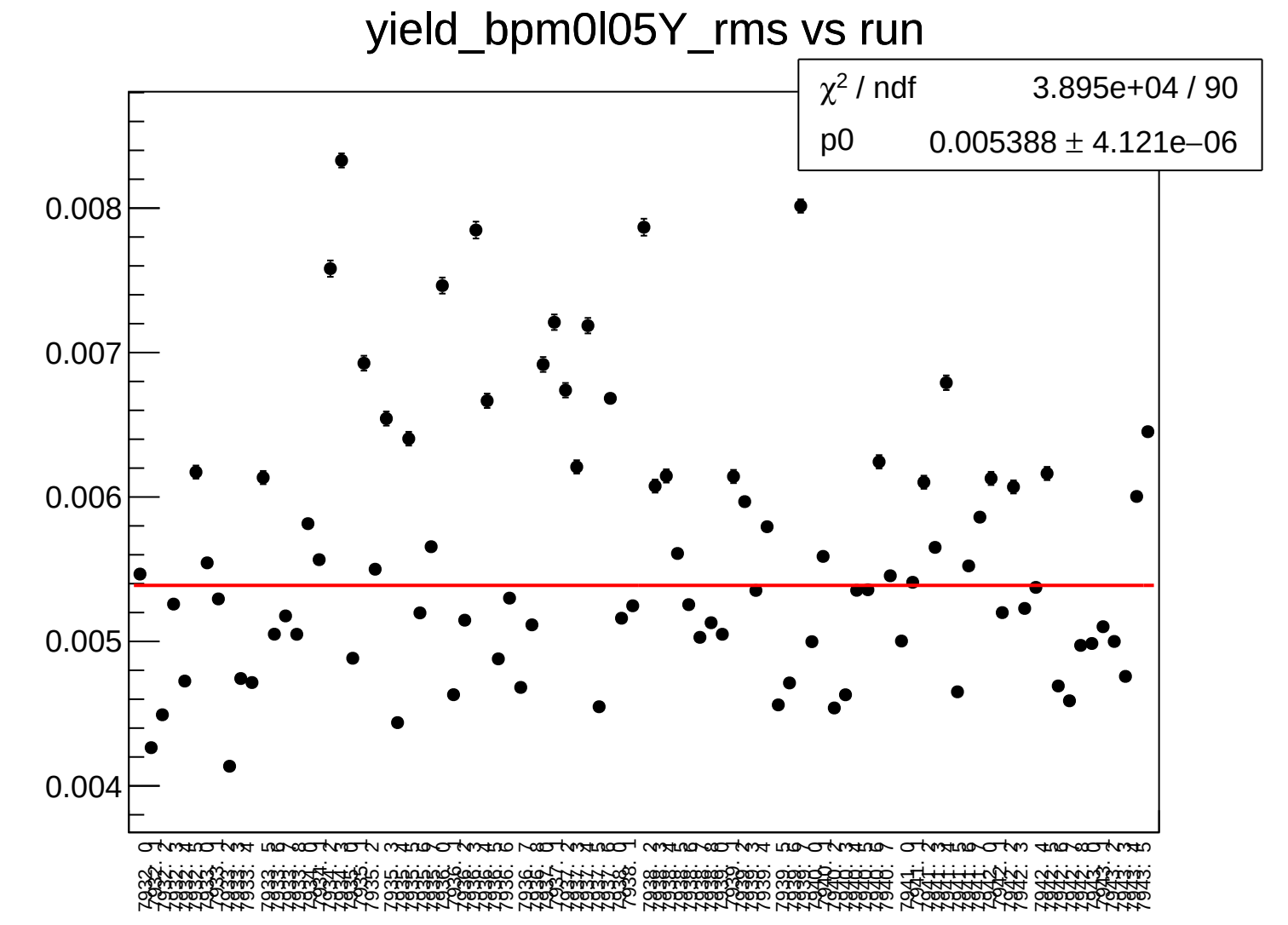

yield_bpm0l05X_mean vs run
χ² / ndf 1.352e+07 / 90
p0 0.5454 ± 3.527e−06
0.57
0.56
0.55
0.54
0.53
0.52
pull
Entries 91
Mean −833.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

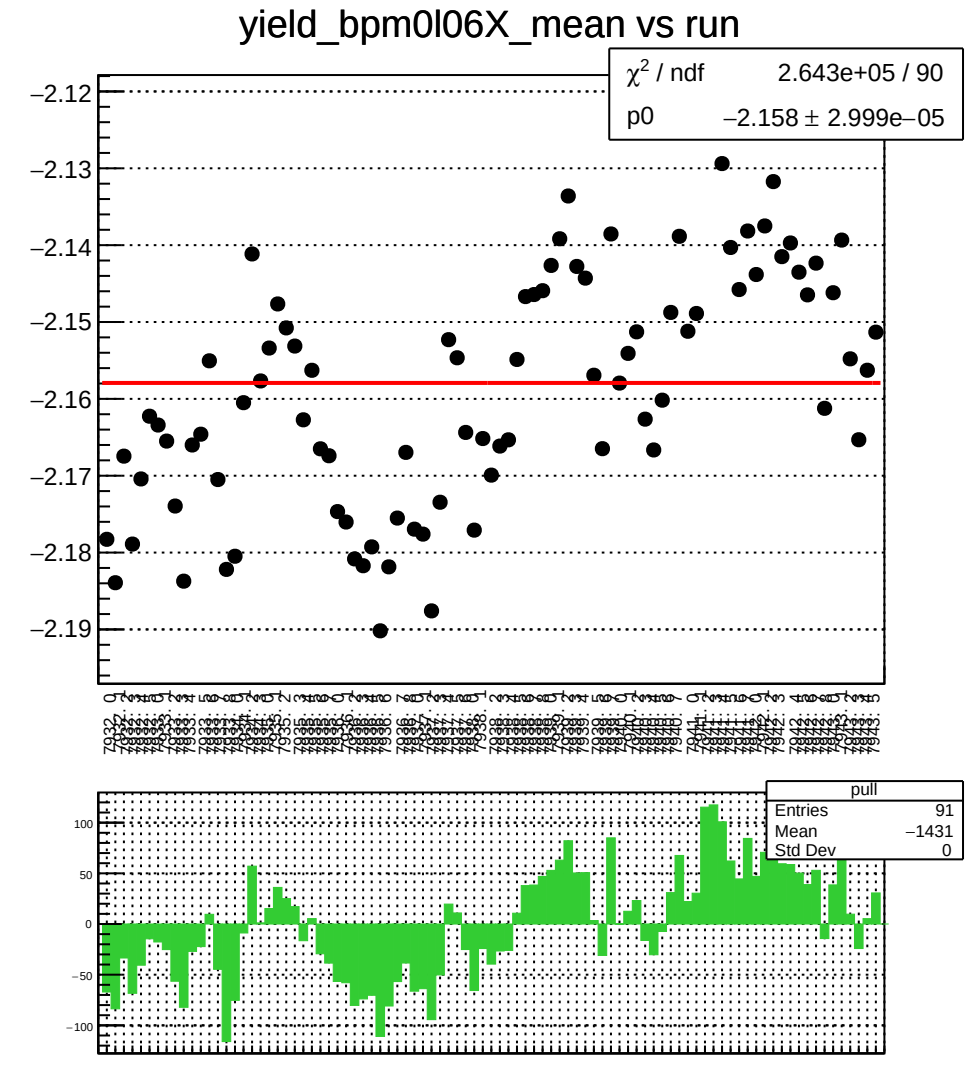

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

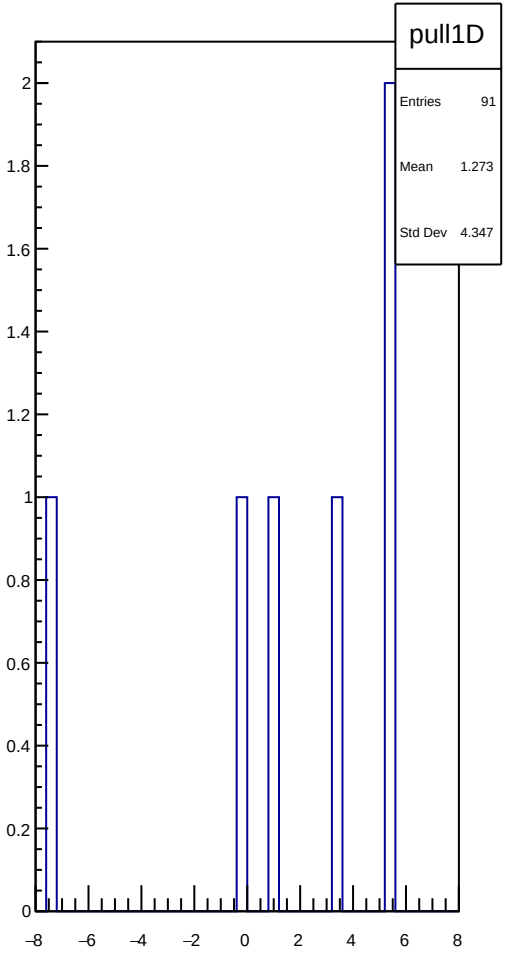

yield_bpm0l05X_rms vs run
χ^2 / ndf 2.386e+04 / 90
p0 0.003275 ± 2.494e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

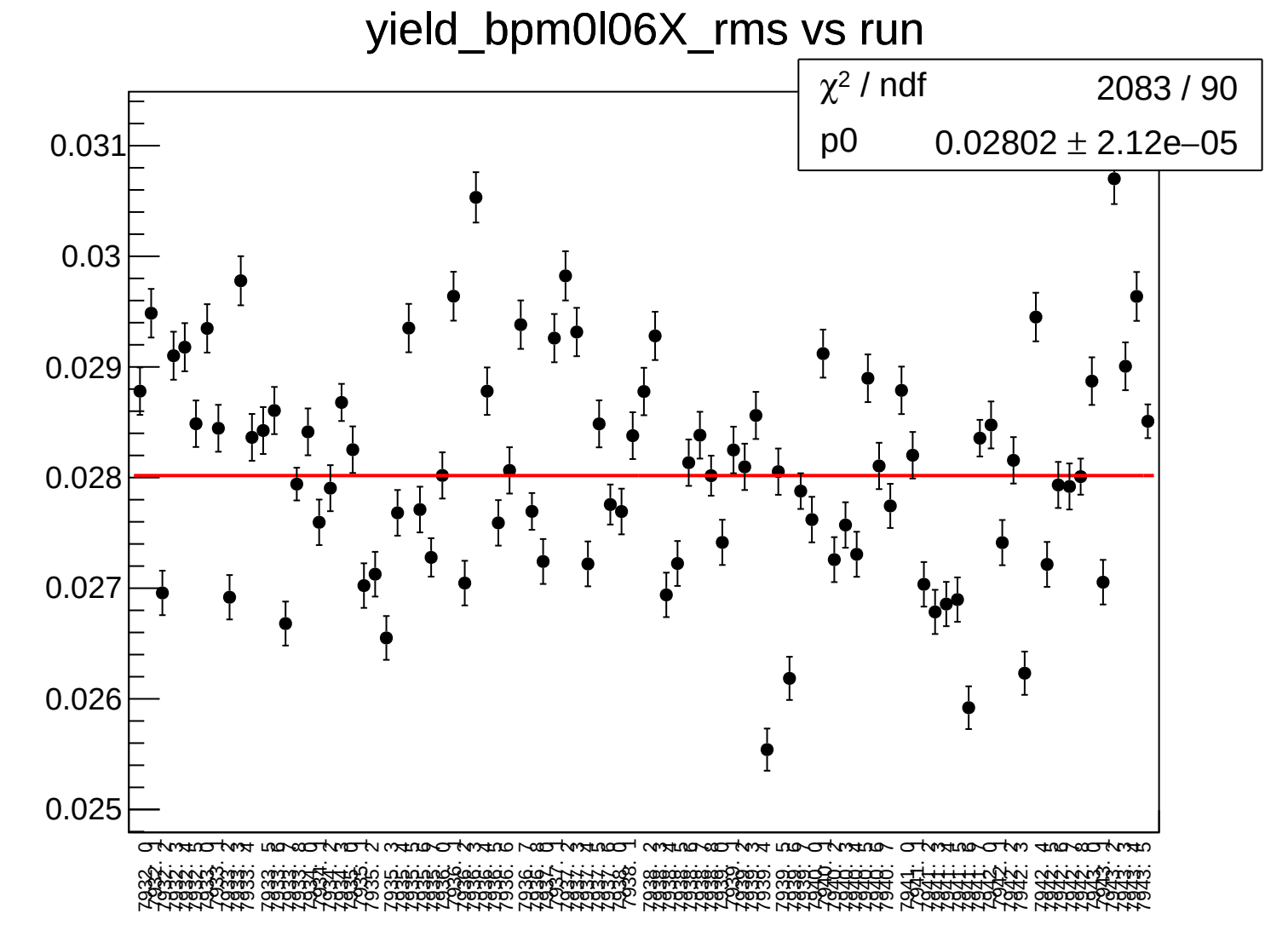

yield_bpm0l05Y_mean vs run
χ² / ndf 2.039e+06 / 90
p0 0.6106 ± 5.828e−06
pull
Entries 91
Mean −32.04
Std Dev 0

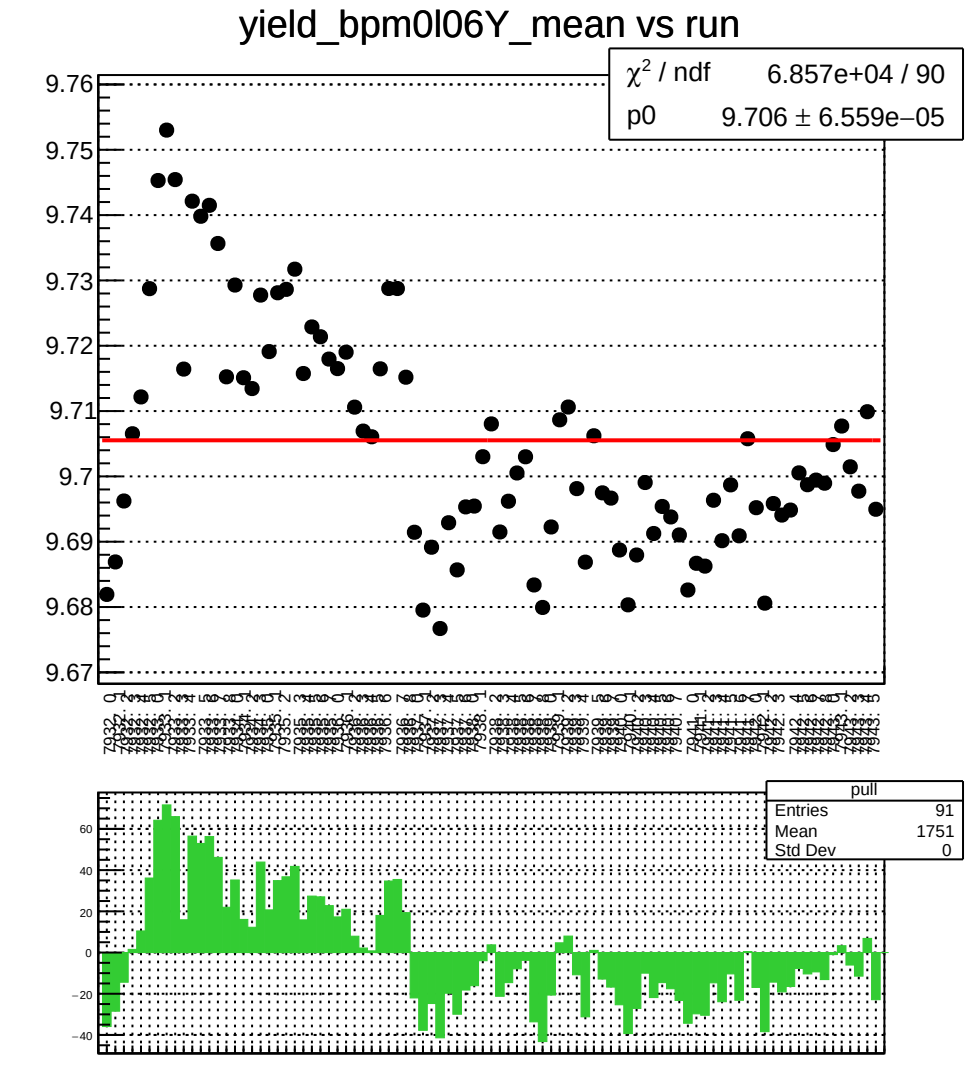

pull1D
Entries 91
Mean 0.5741
Std Dev 4.3

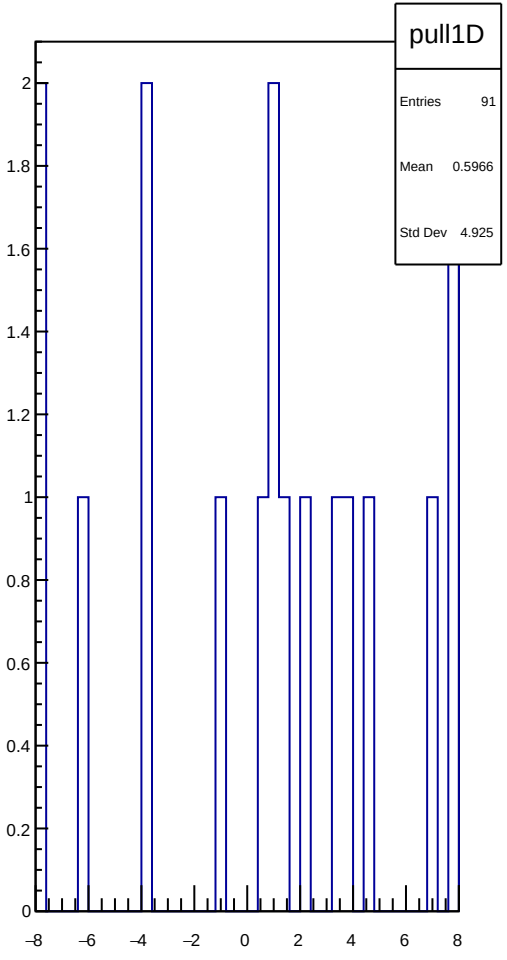

yield_bpm0l05Y_rms vs run
χ² / ndf 3.895e+04 / 90
p0 0.005388 ± 4.121e−06
0.008
0.007
0.006
0.005
0.004

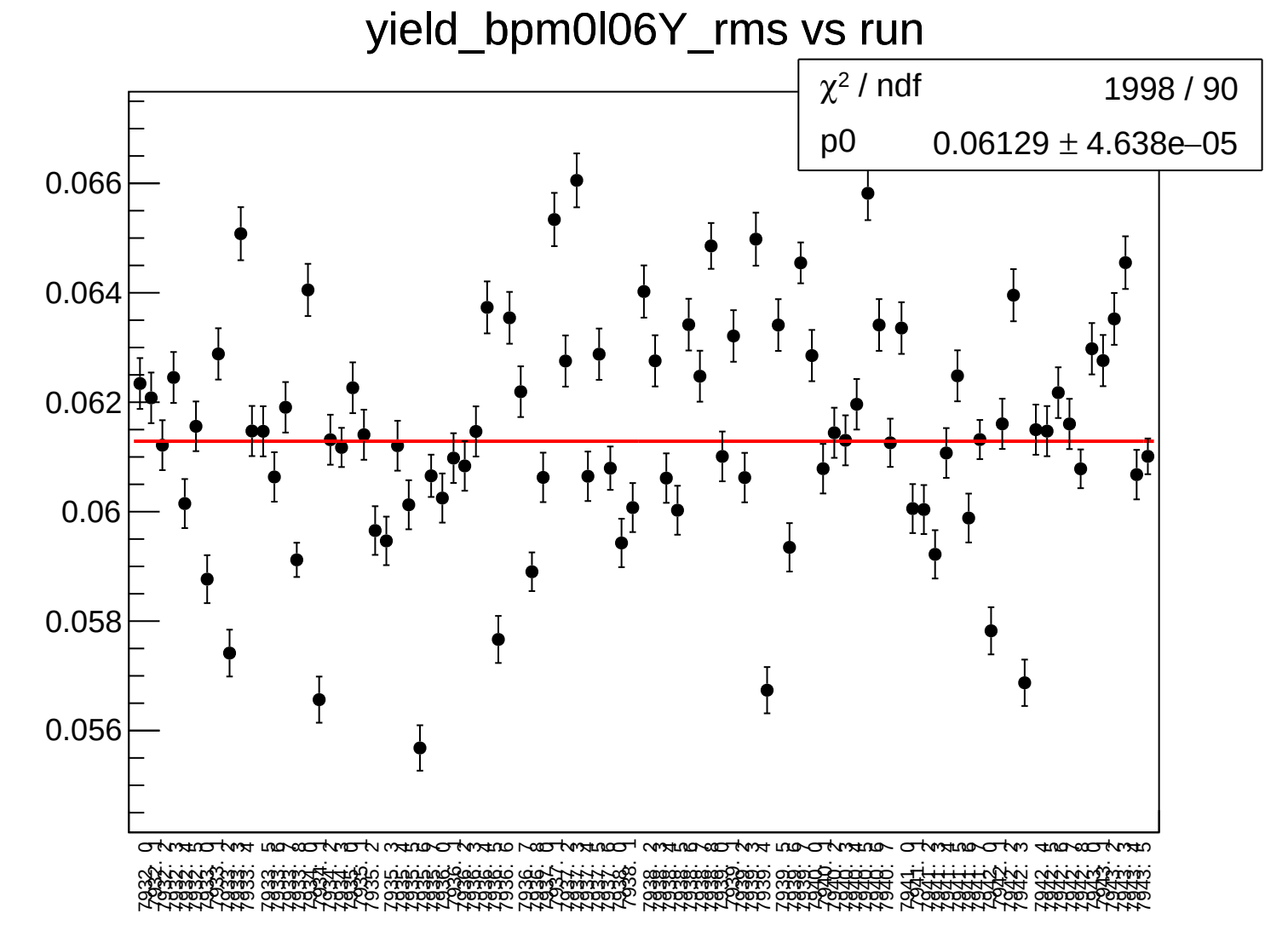

yield_bpm0l06X_mean vs run
χ² / ndf 2.643e+05 / 90
p0 −2.158 ± 2.999e−05
−2.12
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
pull
Entries 91
Mean −1431
Std Dev 0
100
50
0
−50
−100

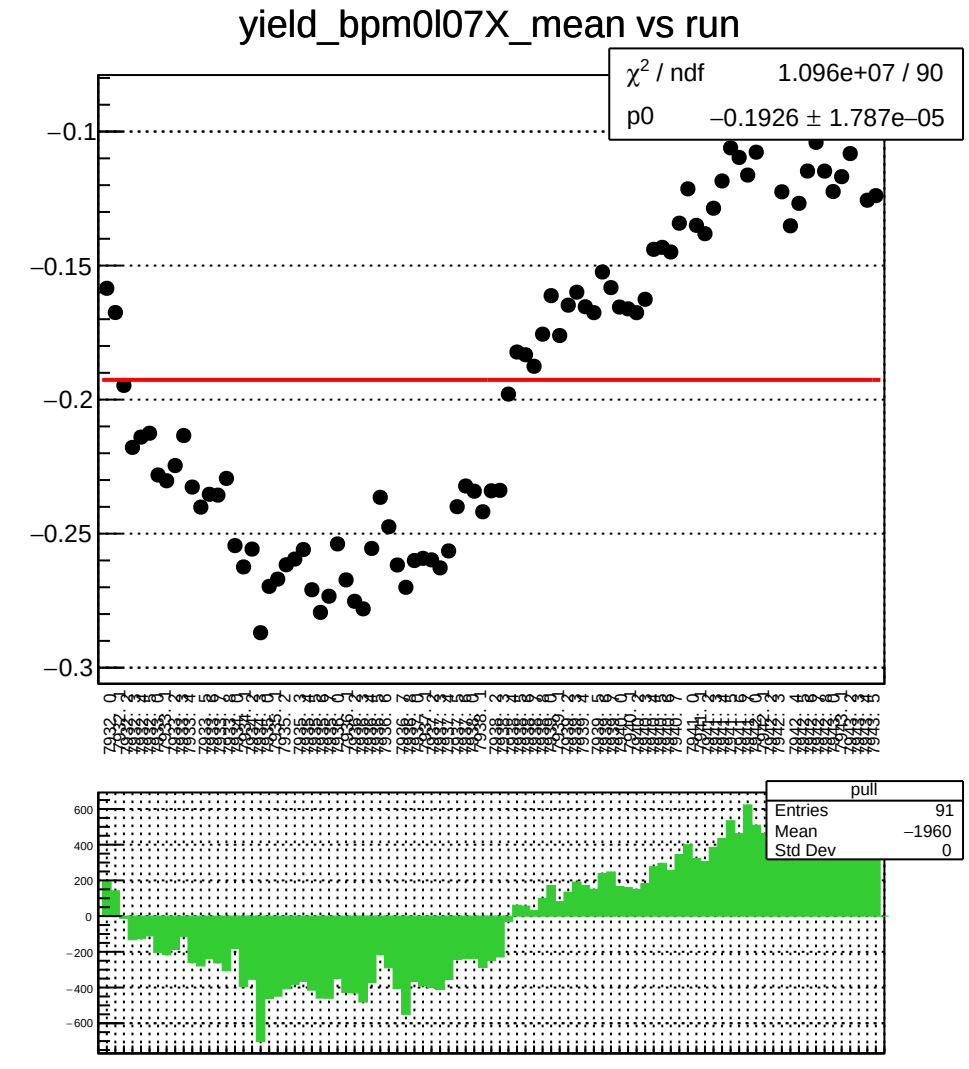

pull1D
Entries 91
Mean 1.273
Std Dev 4.347
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

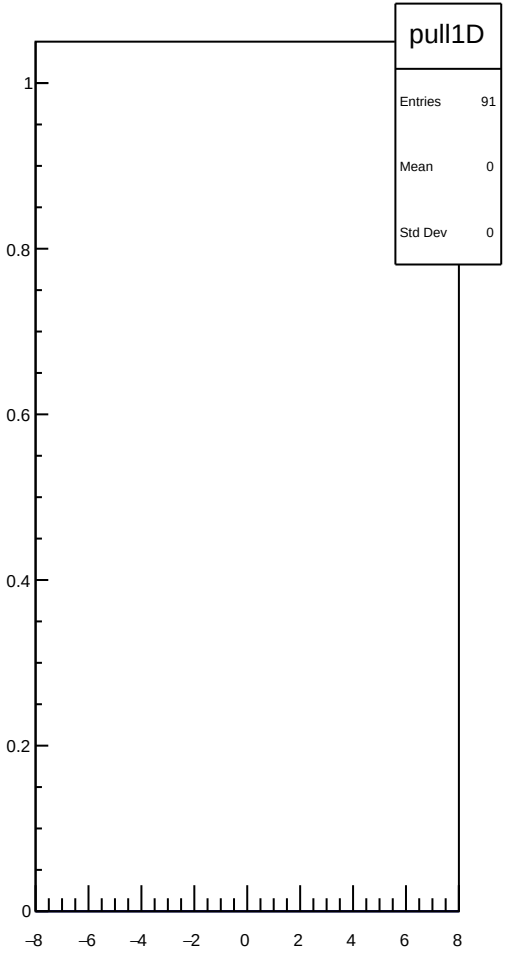

yield_bpm0l06X_rms vs run
χ² / ndf 2083 / 90
p0 0.02802 ± 2.12e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025

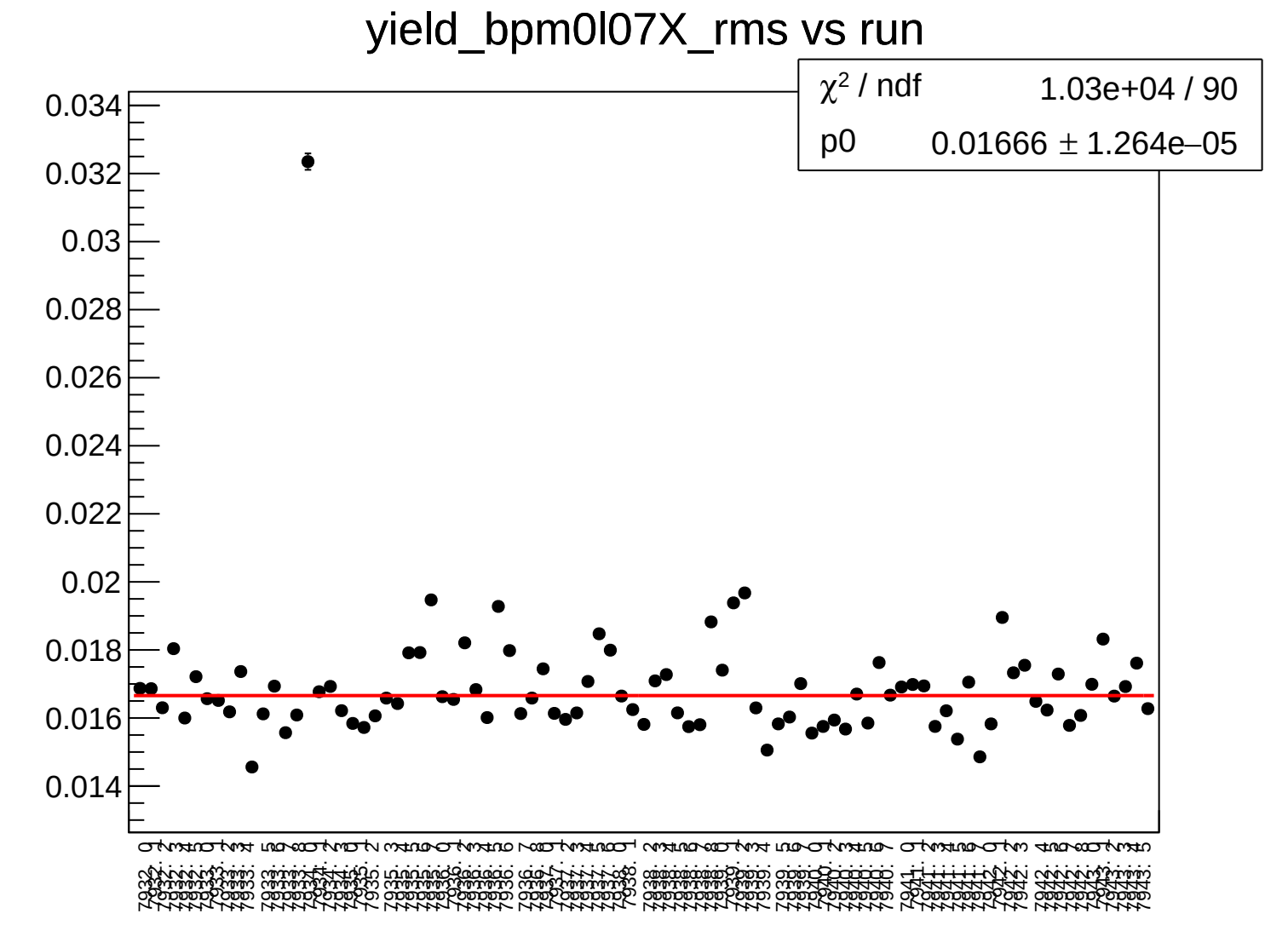

yield_bpm0l06Y_mean vs run
χ² / ndf 6.857e+04 / 90
p0 9.706 ± 6.559e−05
9.76
9.75
9.74
9.73
9.72
9.71
9.7
9.69
9.68
9.67
pull
Entries 91
Mean 1751
Std Dev 0
60
40
20
0
−20
−40

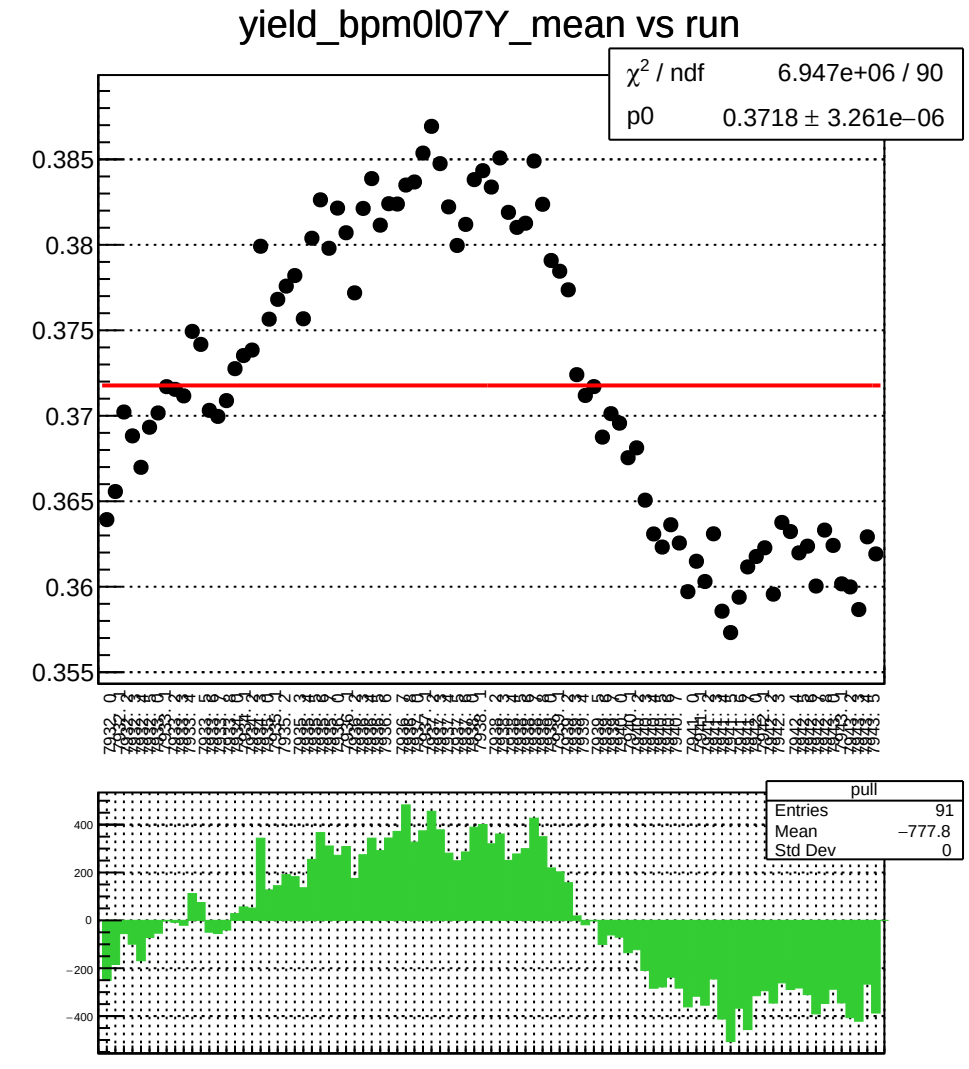

pull1D
Entries 91
Mean 0.5966
Std Dev 4.925
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

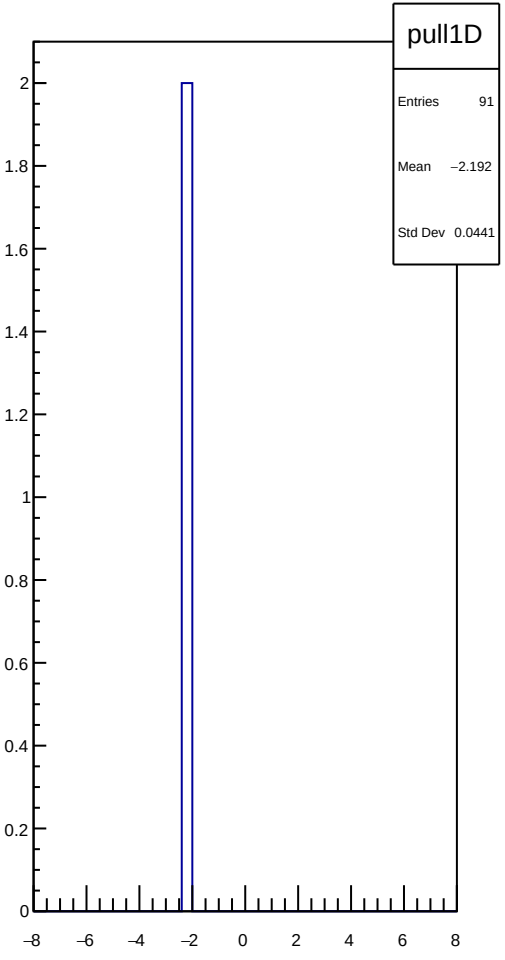

yield_bpm0l06Y_rms vs run
χ² / ndf 1998 / 90
p0 0.06129 ± 4.638e–05
0.066
0.064
0.062
0.06
0.058
0.056

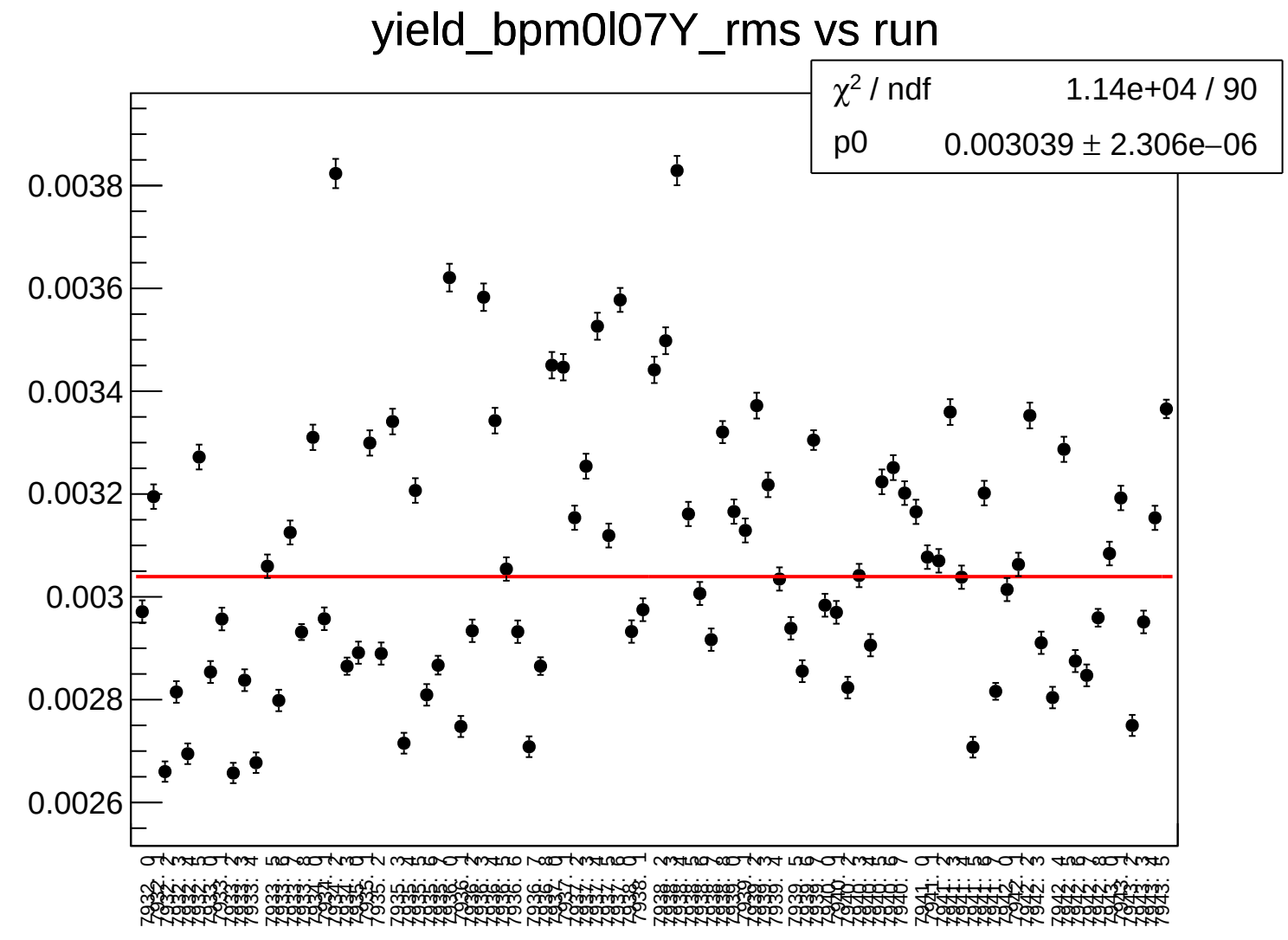

yield_bpm0l07X_mean vs run
χ² / ndf 1.096e+07 / 90
p0 −0.1926 ± 1.787e−05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 91
Mean −1960
Std Dev 0
600
400
200
0
−200
−400
−600

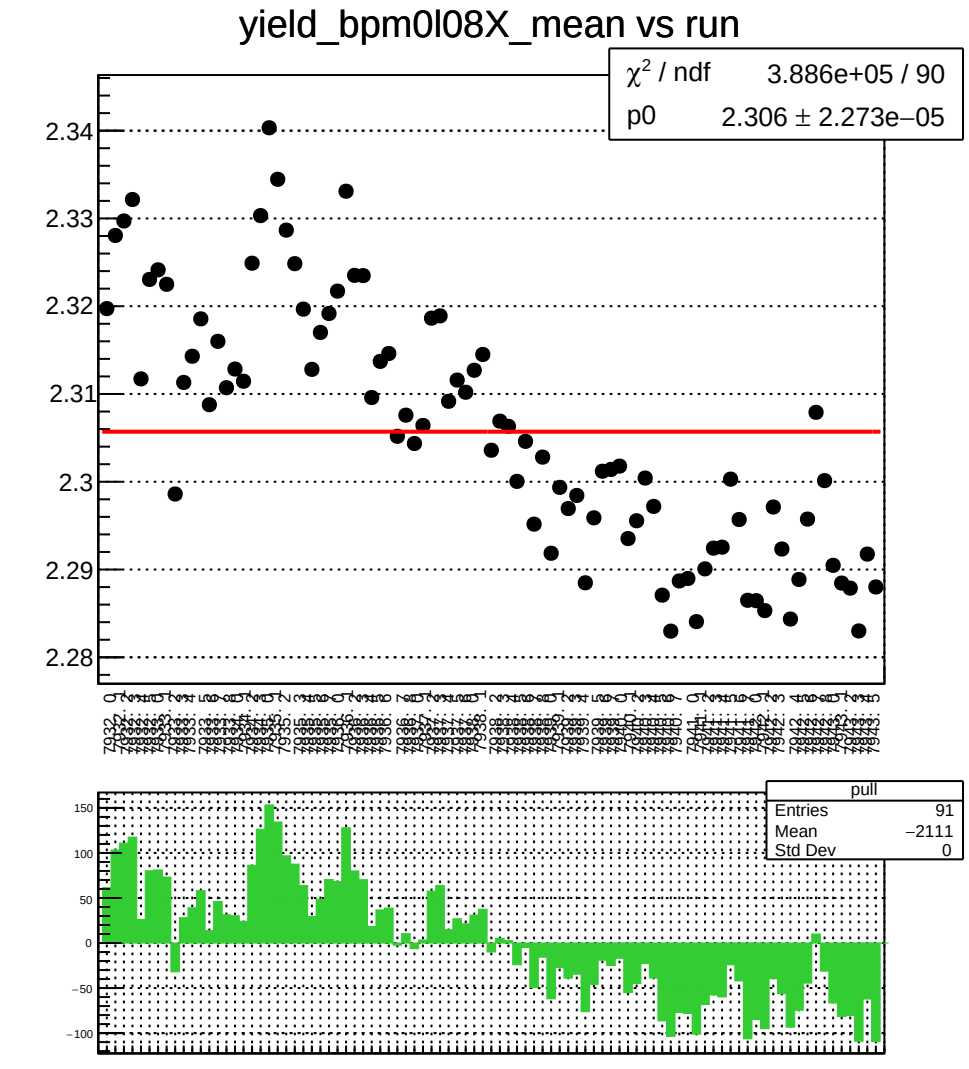

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

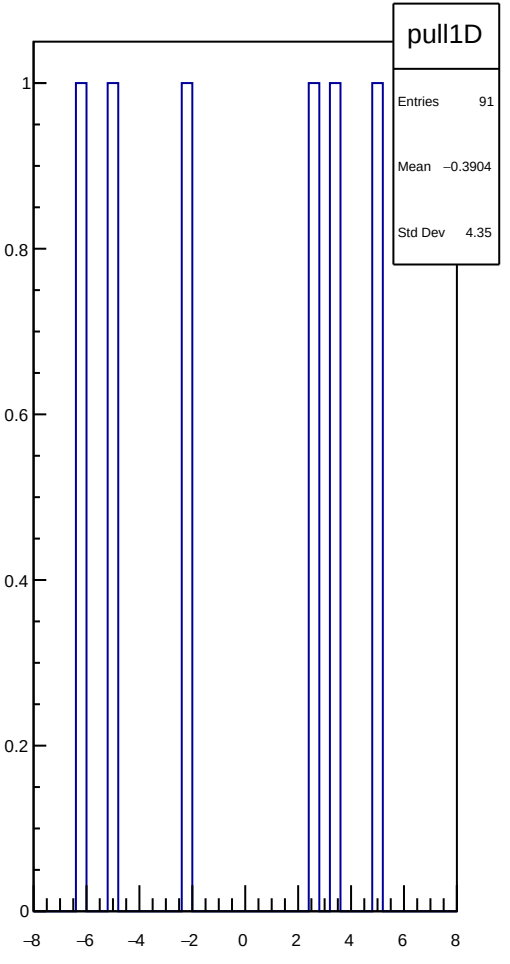

yield_bpm0l07X_rms vs run
χ² / ndf 1.03e+04 / 90
p0 0.01666 ± 1.264e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

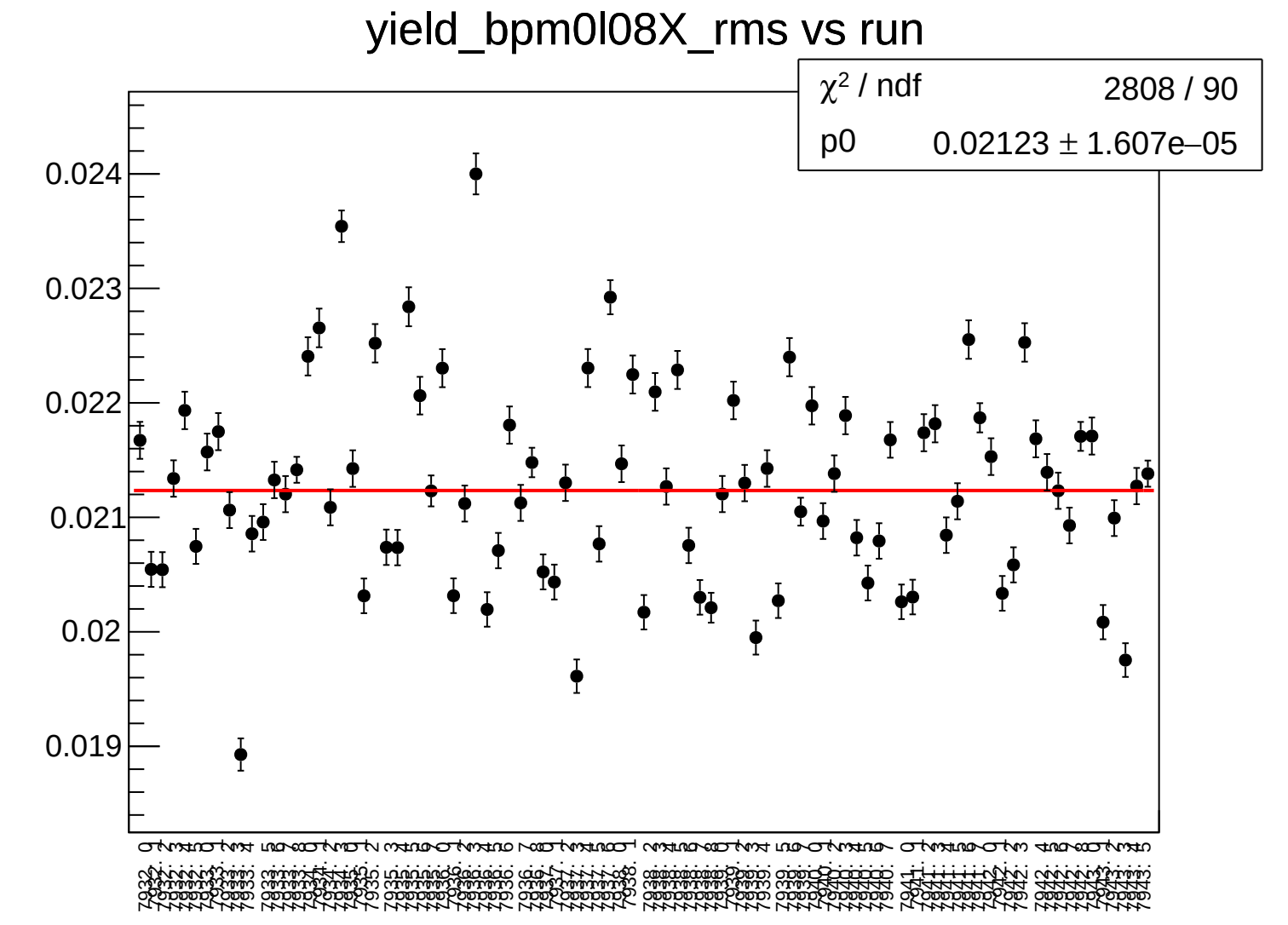

yield_bpm0l07Y_mean vs run
χ² / ndf 6.947e+06 / 90
p0 0.3718 ± 3.261e−06
0.385
0.38
0.375
0.37
0.365
0.36
0.355
pull
Entries 91
Mean −777.8
Std Dev 0
400
200
0
−200
−400

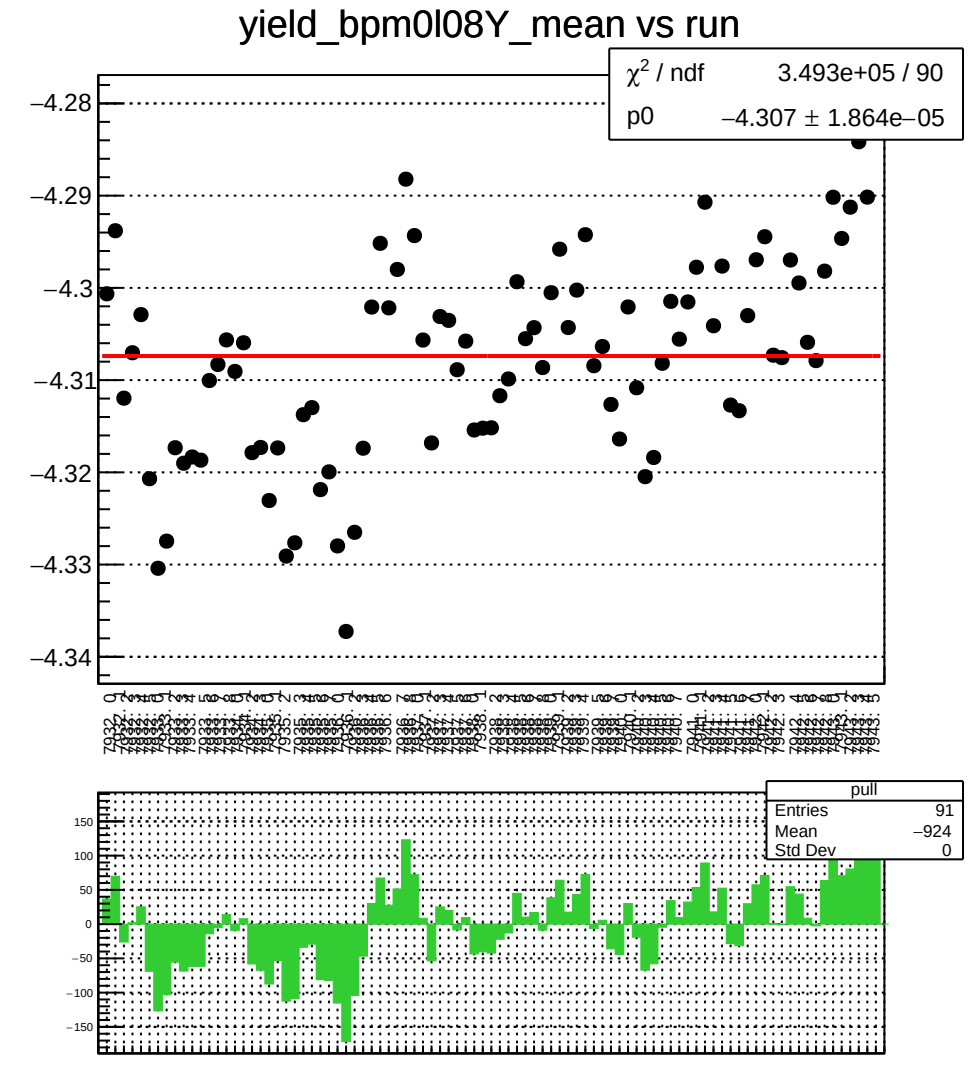

pull1D
Entries 91
Mean −2.192
Std Dev 0.0441
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

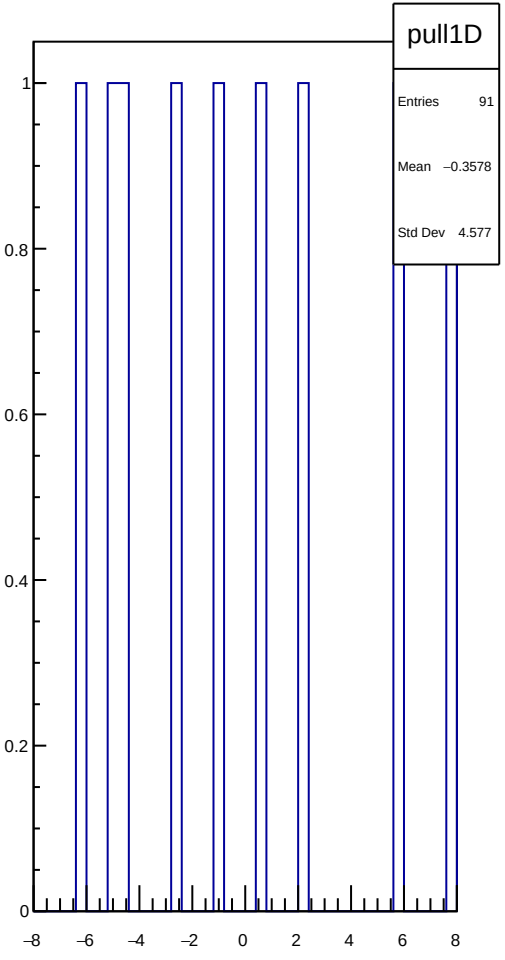

yield_bpm0l07Y_rms vs run
χ² / ndf 1.14e+04 / 90
p0 0.003039 ± 2.306e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

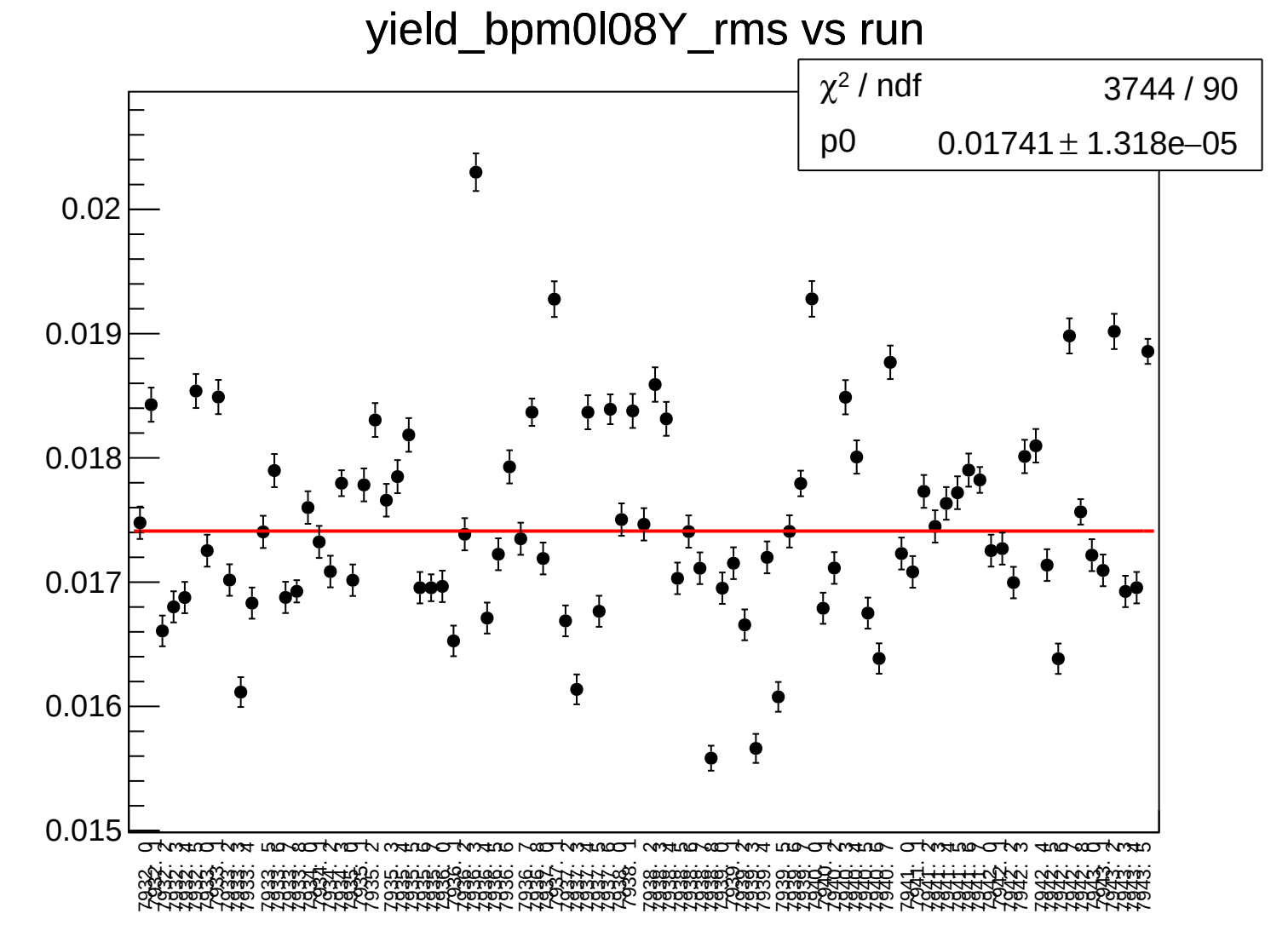

yield_bpm0l08X_mean vs run
χ² / ndf 3.886e+05 / 90
p0 2.306 ± 2.273e−05
2.34
2.33
2.32
2.31
2.3
2.29
2.28
pull
Entries 91
Mean −2111
Std Dev 0
150
100
50
0
−50
−100

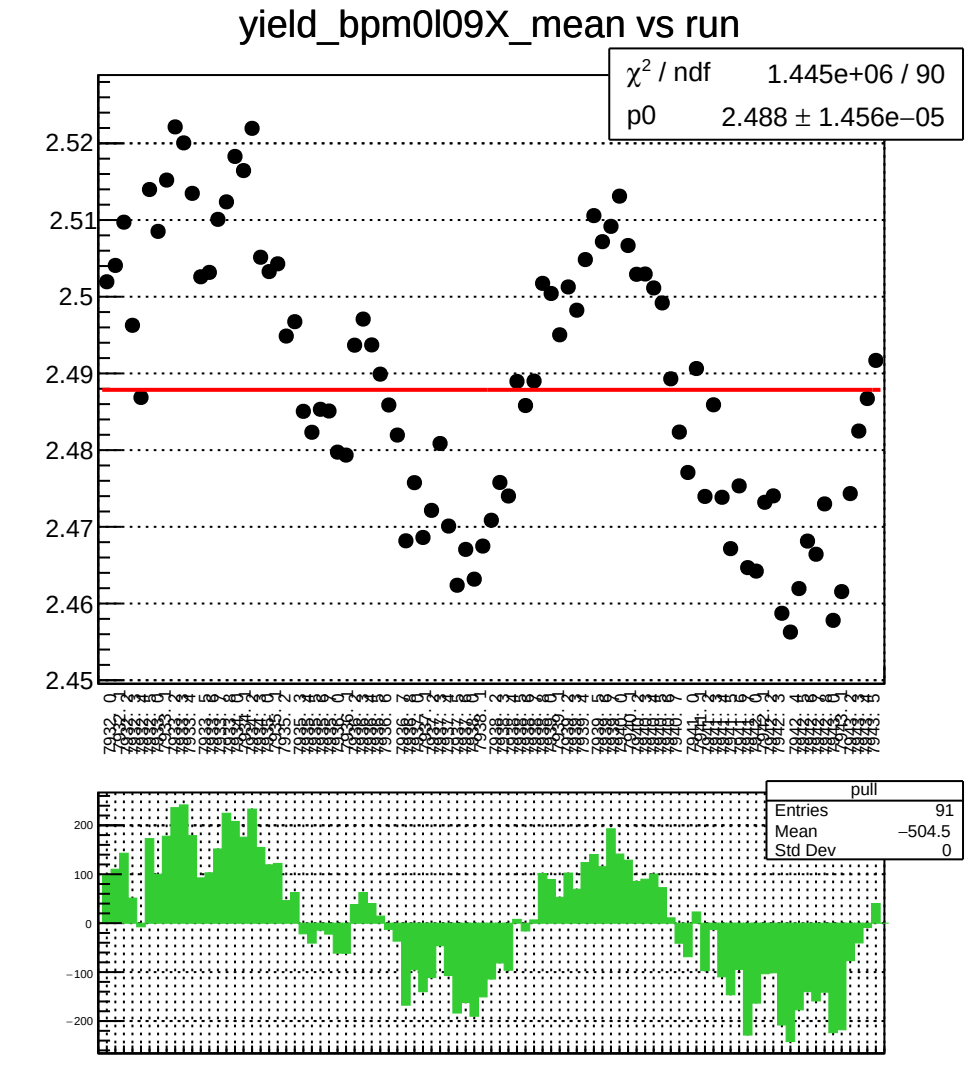

pull1D
Entries 91
Mean −0.3904
Std Dev 4.35
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

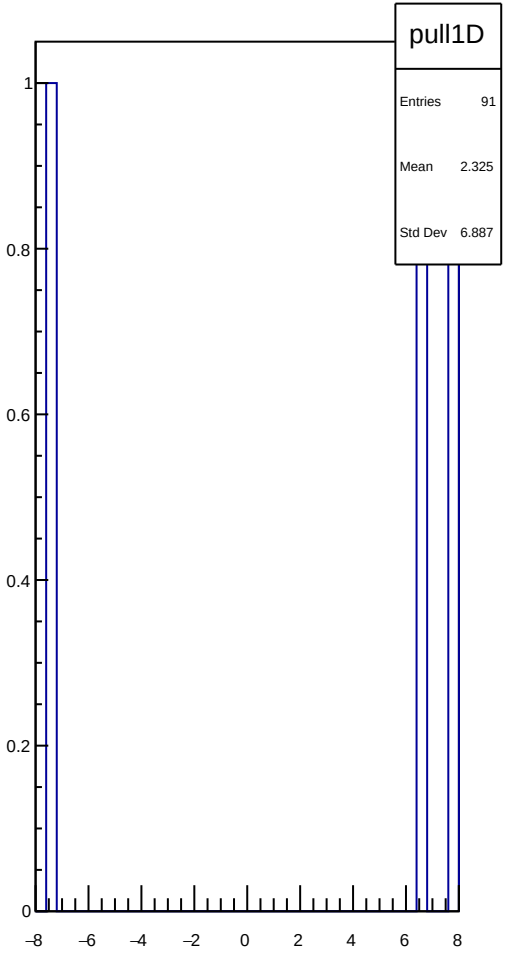

yield_bpm0l08X_rms vs run
χ² / ndf 2808 / 90
p0 0.02123 ± 1.607e–05
0.024
0.023
0.022
0.021
0.02
0.019

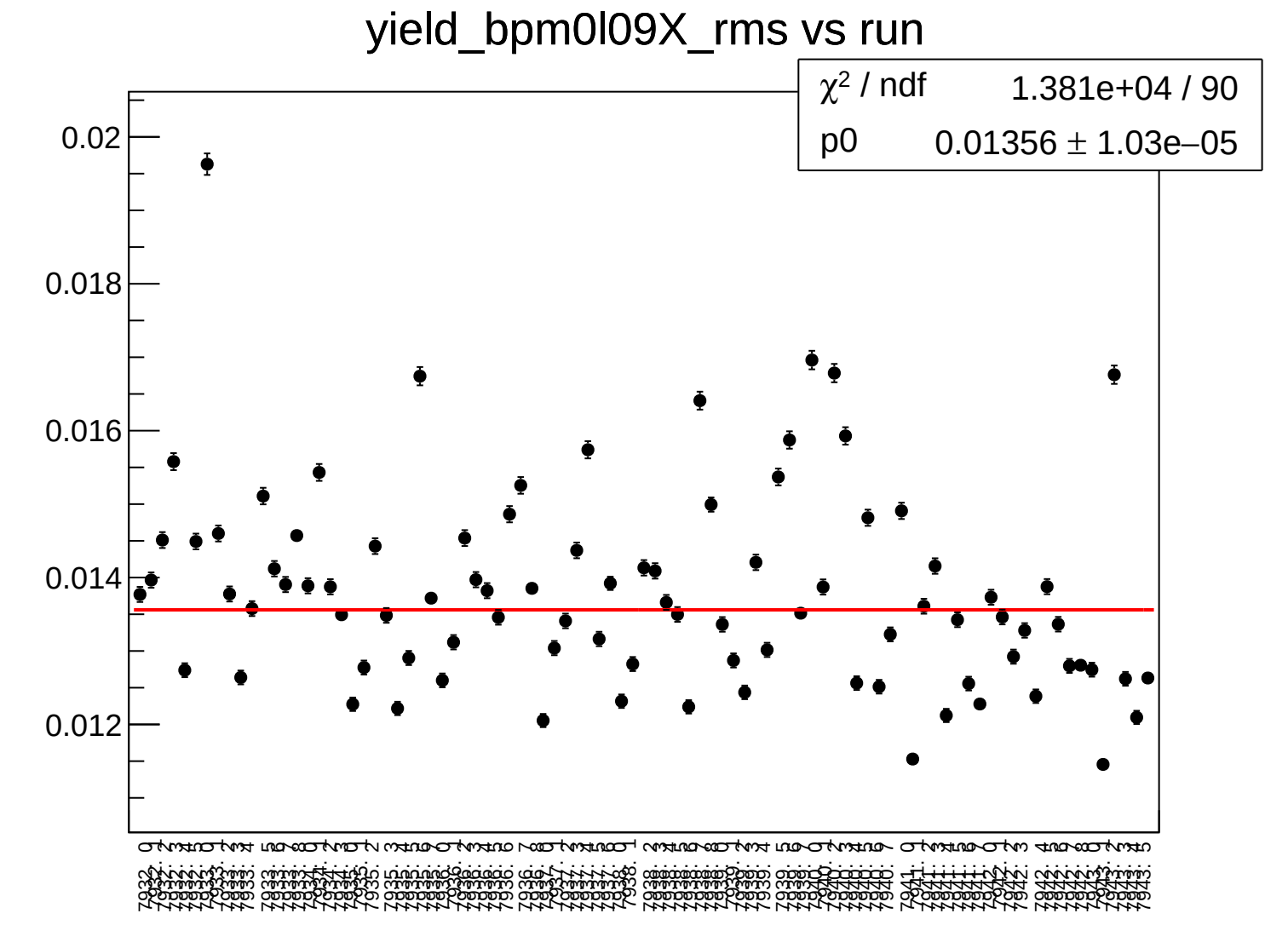

yield_bpm0l08Y_mean vs run
χ² / ndf 3.493e+05 / 90
p0 −4.307 ± 1.864e−05
−4.28
−4.29
−4.3
−4.31
−4.32
−4.33
−4.34
pull
Entries 91
Mean −924
Std Dev 0
150
100
50
0
−50
−100
−150

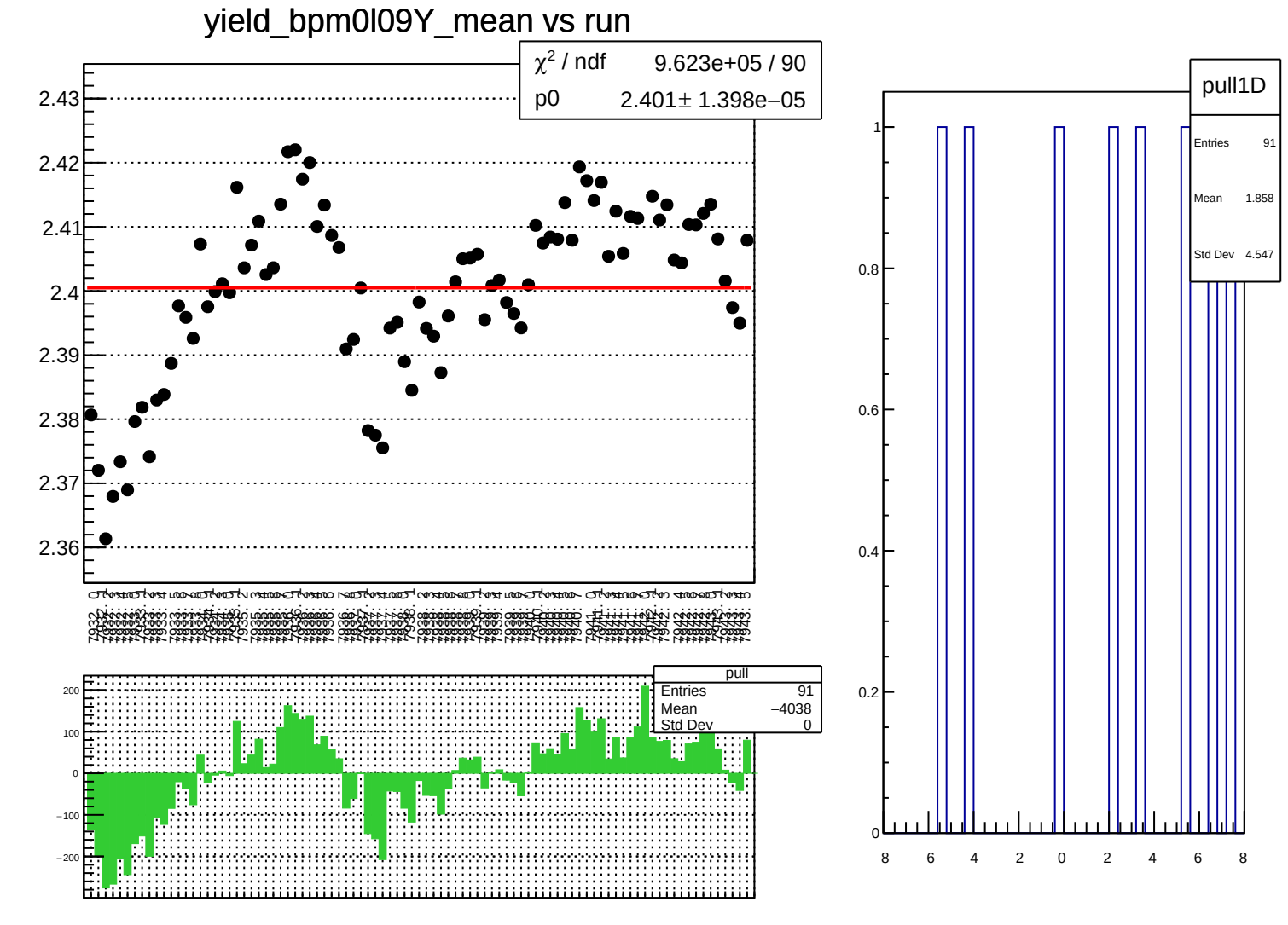

pull1D
Entries 91
Mean −0.3578
Std Dev 4.577
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

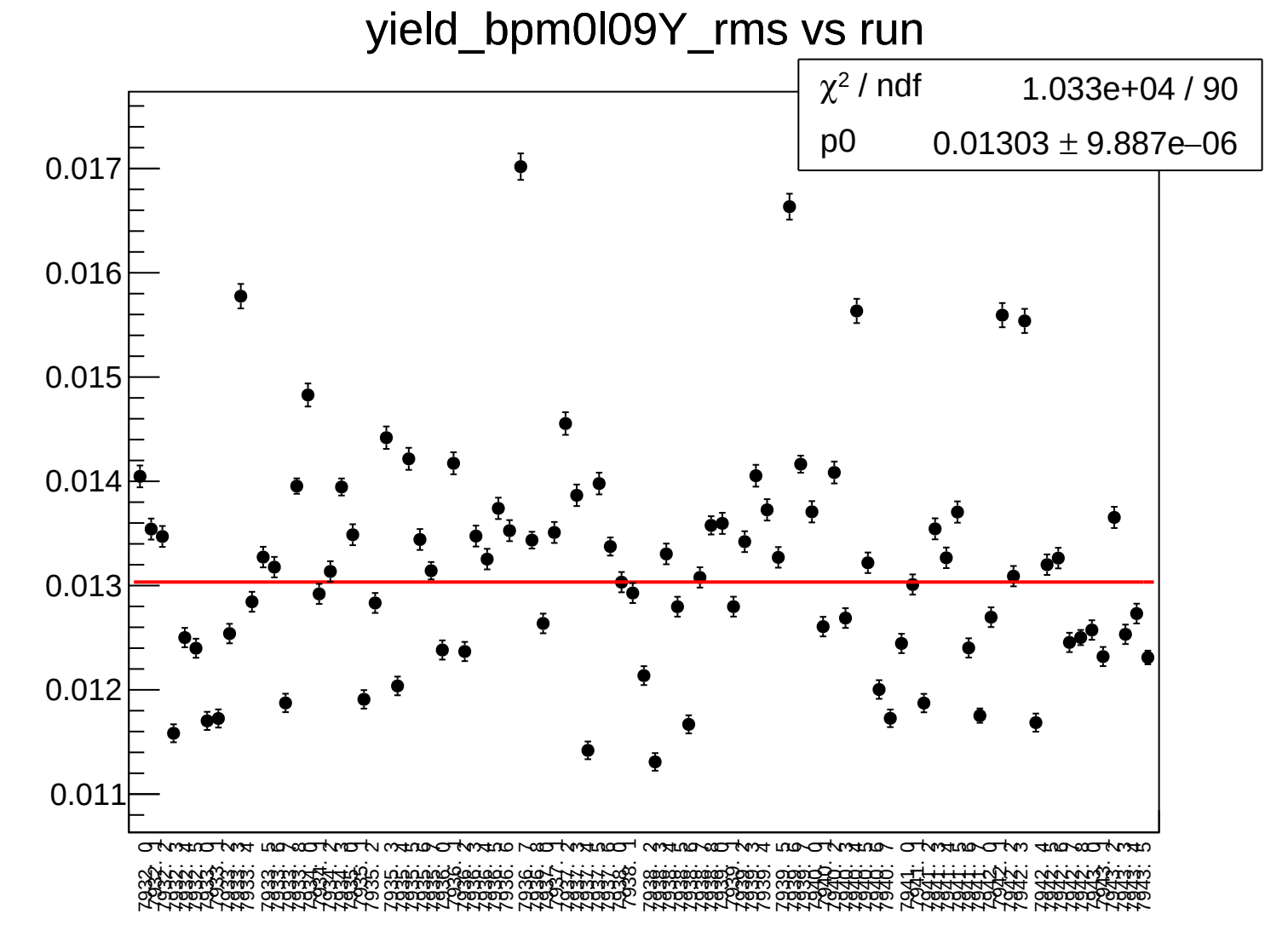

yield_bpm0l08Y_rms vs run
χ² / ndf 3744 / 90
p0 0.01741 ± 1.318e–05
0.02
0.019
0.018
0.017
0.016
0.015

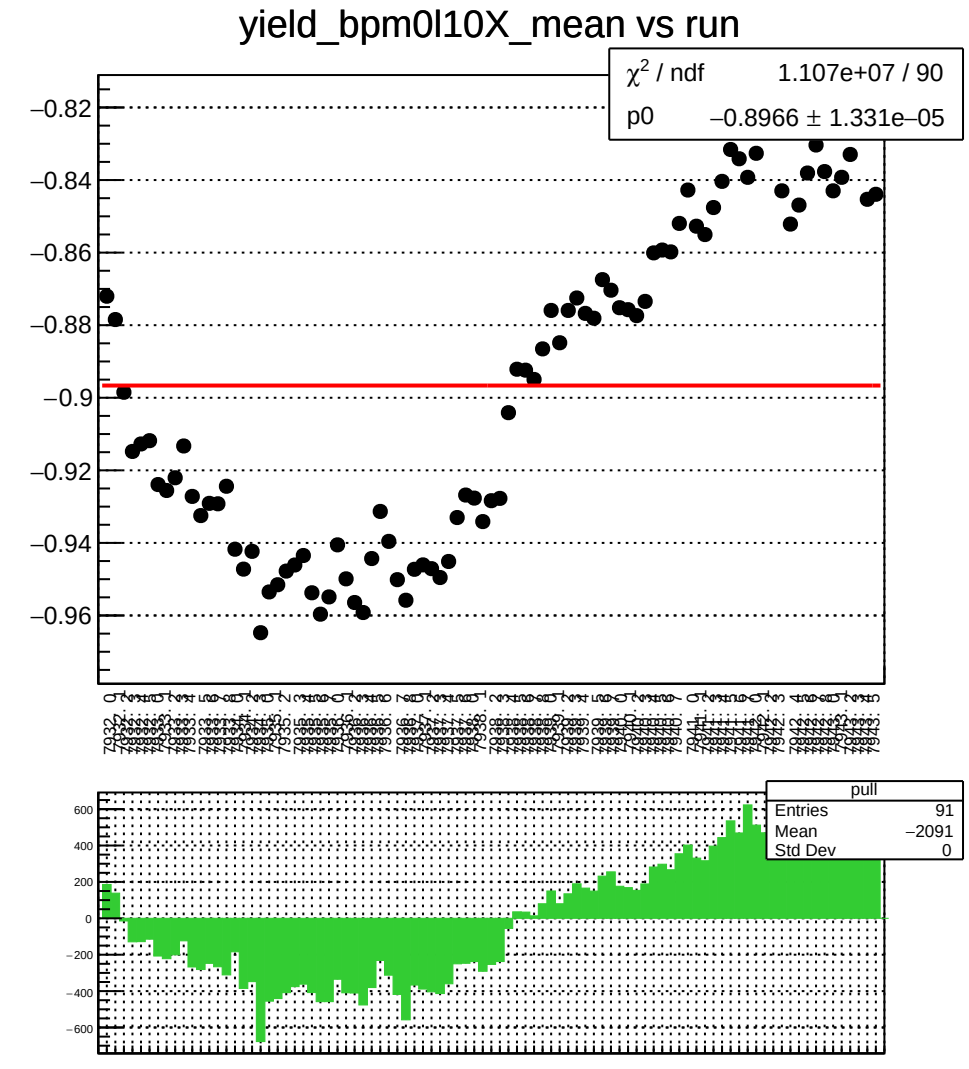

yield_bpm0l09X_mean vs run
χ² / ndf 1.445e+06 / 90
p0 2.488 ± 1.456e−05
2.52
2.51
2.5
2.49
2.48
2.47
2.46
2.45
pull
Entries 91
Mean −504.5
Std Dev 0
200
100
0
−100
−200

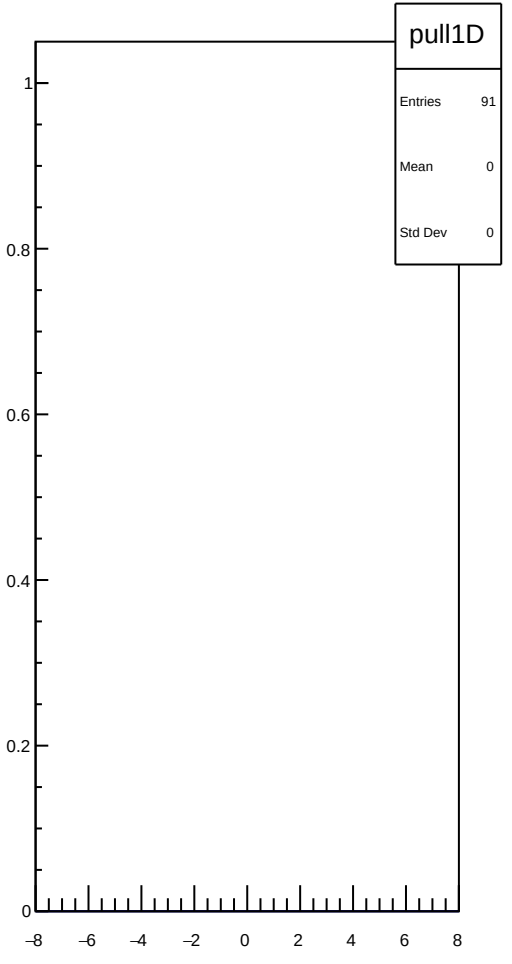

pull1D
Entries 91
Mean 2.325
Std Dev 6.887
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

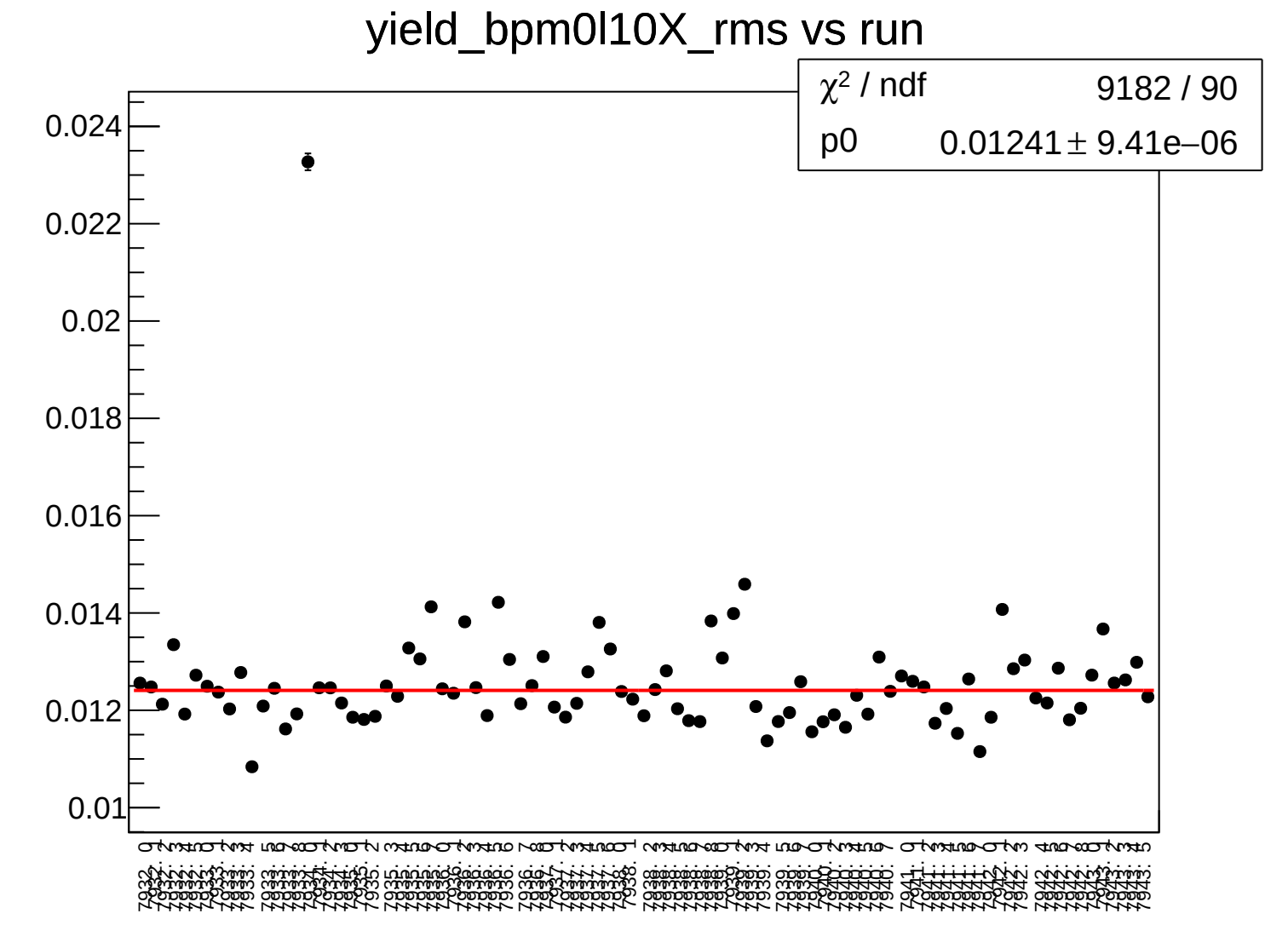

yield_bpm0l09X_rms vs run
χ² / ndf 1.381e+04 / 90
p0 0.01356 ± 1.03e−05
0.02
0.018
0.016
0.014
0.012

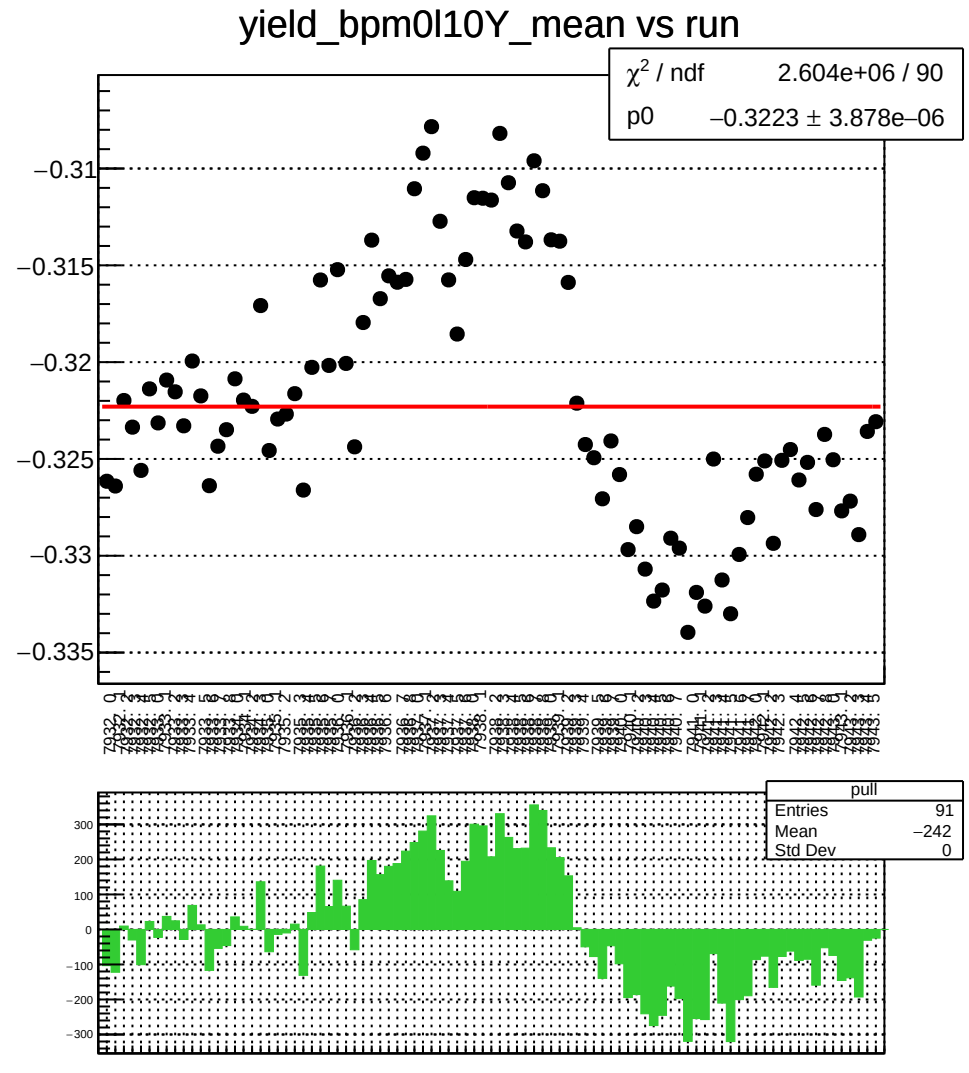

yield_bpm0l09Y_mean vs run
χ² / ndf 9.623e+05 / 90
p0 2.401± 1.398e−05
2.43
2.42
2.41
2.4
2.39
2.38
2.37
2.36
pull
Entries 91
Mean −4038
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 91
Mean 1.858
Std Dev 4.547
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

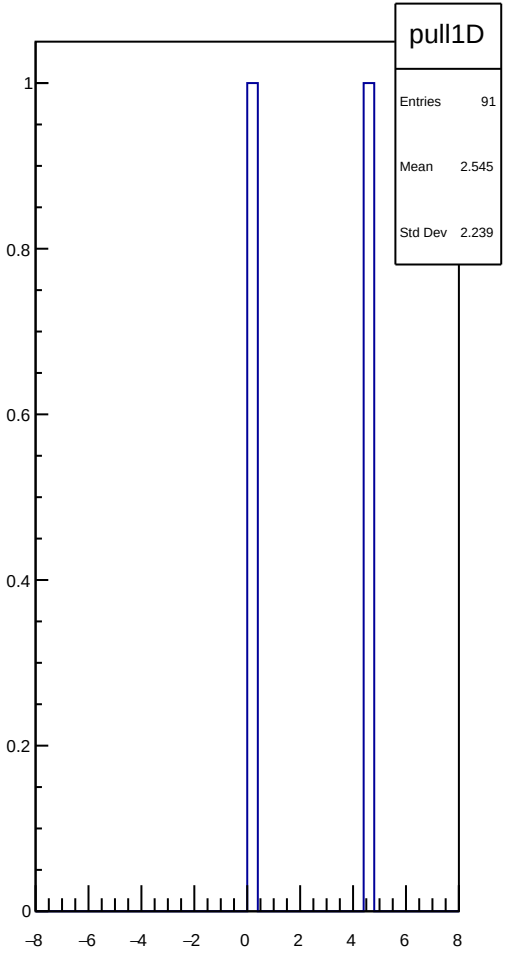

yield_bpm0l09Y_rms vs run
χ² / ndf 1.033e+04 / 90
p0 0.01303 ± 9.887e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011

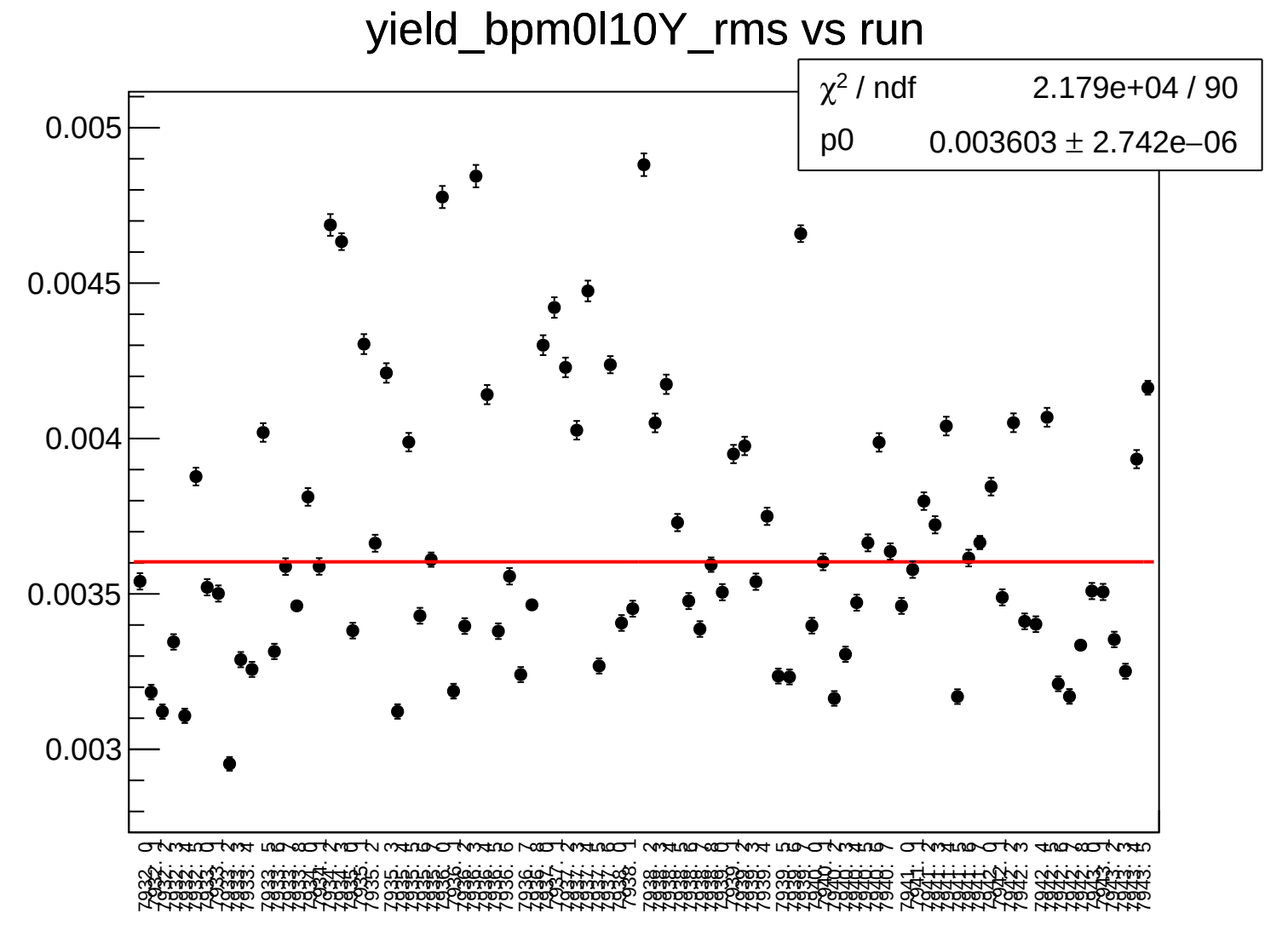

yield_bpm0l10X_mean vs run
χ^2 / ndf 1.107e+07 / 90
p0 −0.8966 ± 1.331e−05
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
pull
Entries 91
Mean −2091
Std Dev 0
600
400
200
0
−200
−400
−600

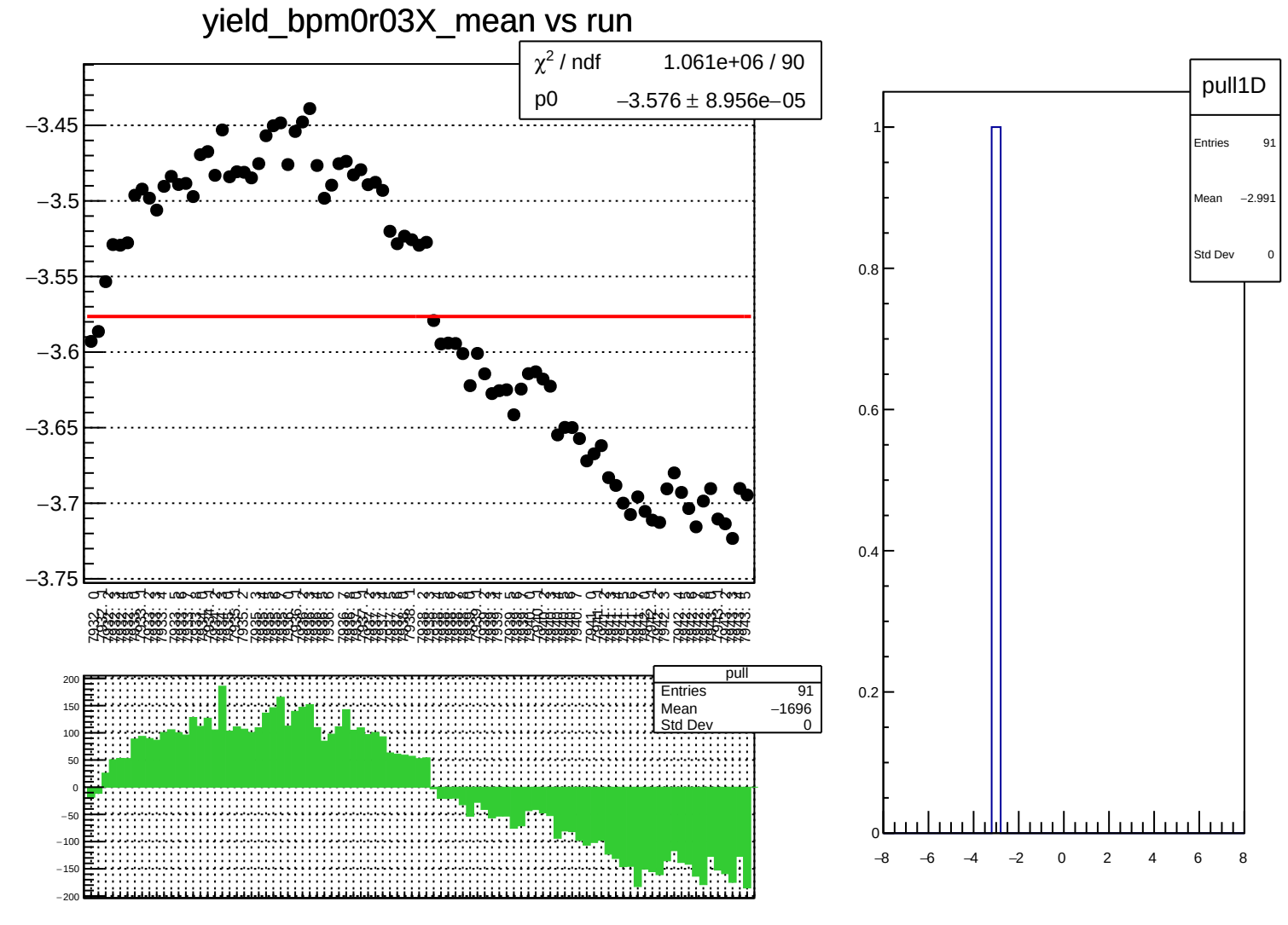

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

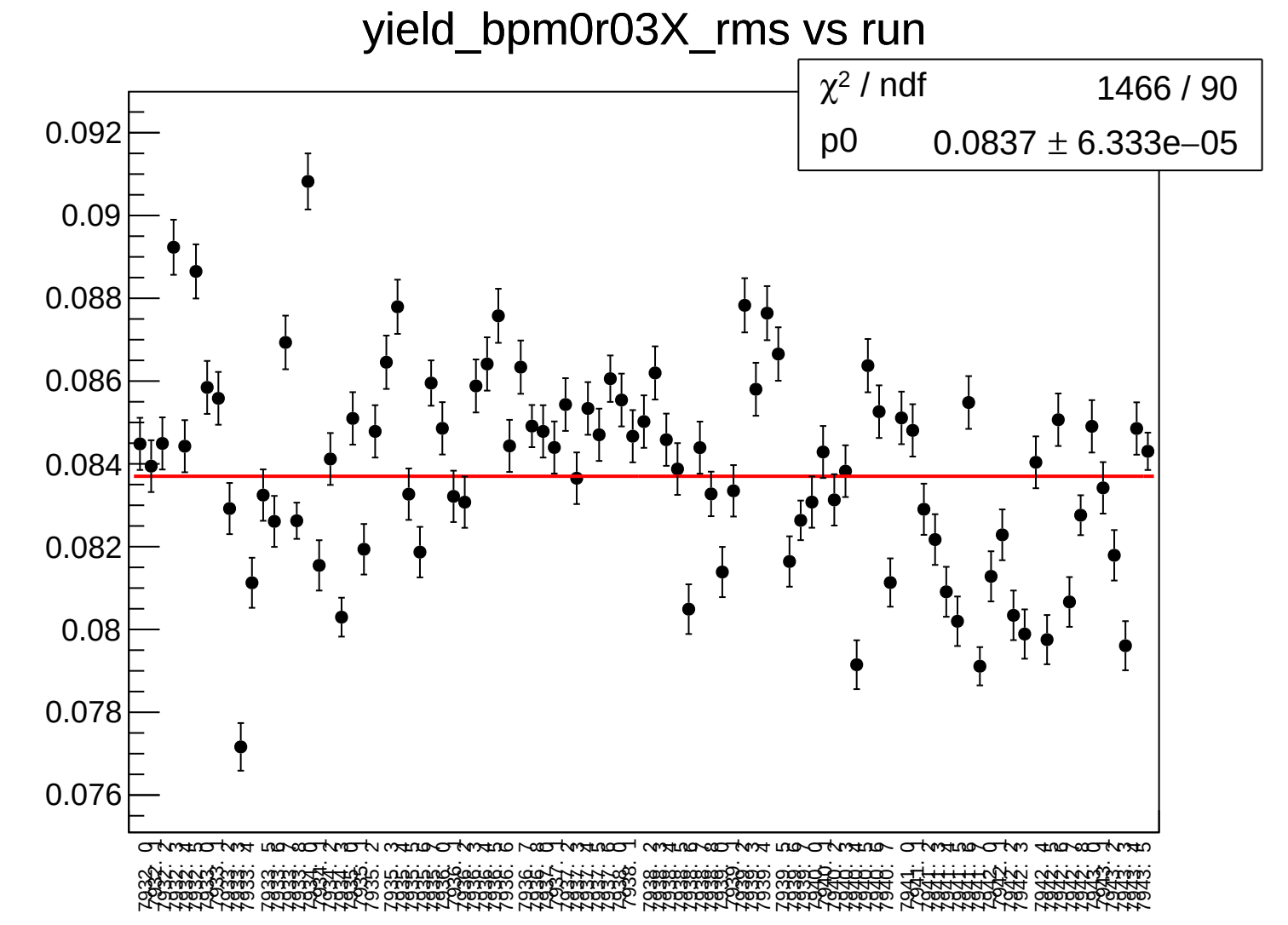

yield_bpm0l10X_rms vs run
χ² / ndf 9182 / 90
p0 0.01241 ± 9.41e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

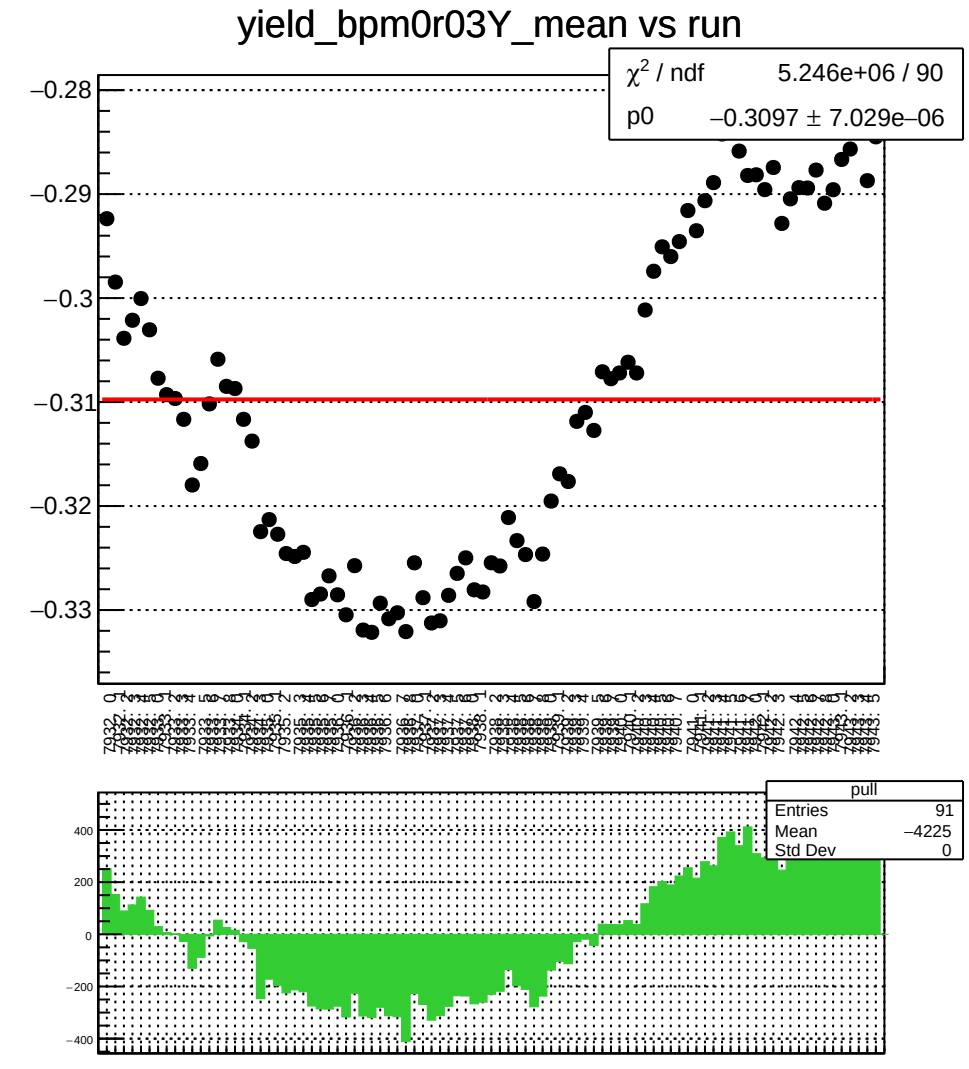

yield_bpm0l10Y_mean vs run
χ² / ndf 2.604e+06 / 90
p0 −0.3223 ± 3.878e−06
−0.31
−0.315
−0.32
−0.325
−0.33
−0.335
pull
Entries 91
Mean −242
Std Dev 0
300
200
100
0
−100
−200
−300

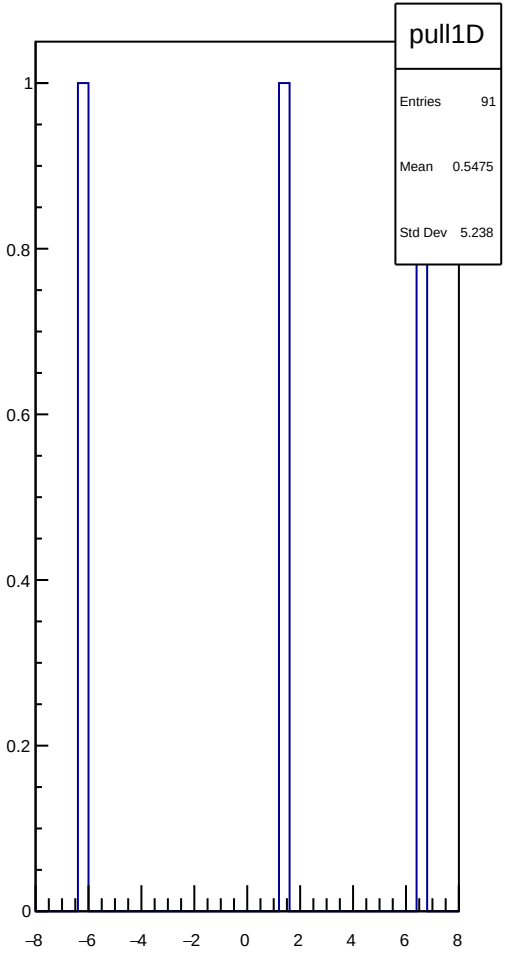

pull1D
Entries 91
Mean 2.545
Std Dev 2.239
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

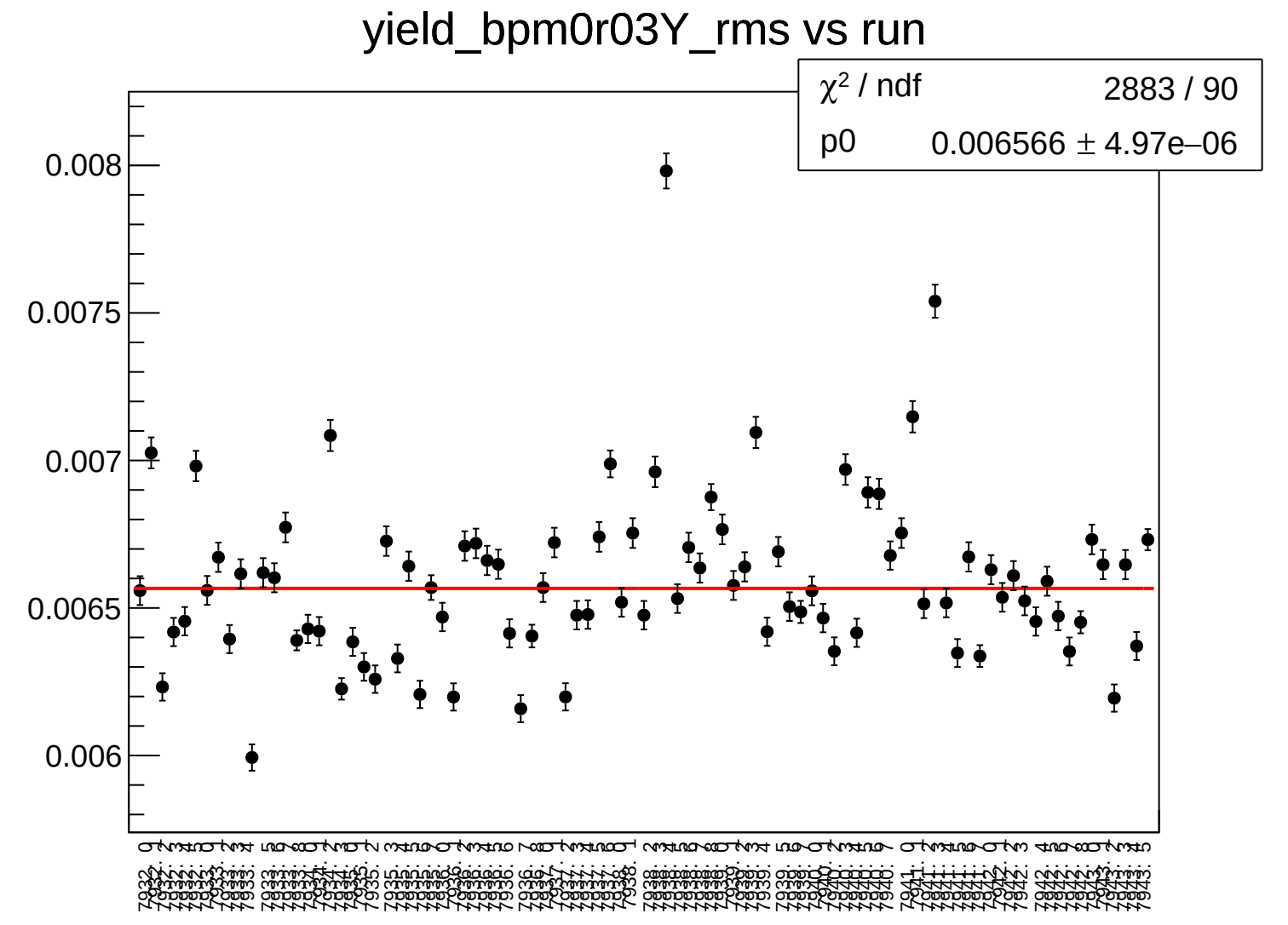

yield_bpm0l10Y_rms vs run
χ² / ndf 2.179e+04 / 90
p0 0.003603 ± 2.742e−06
0.005
0.0045
0.004
0.0035
0.003

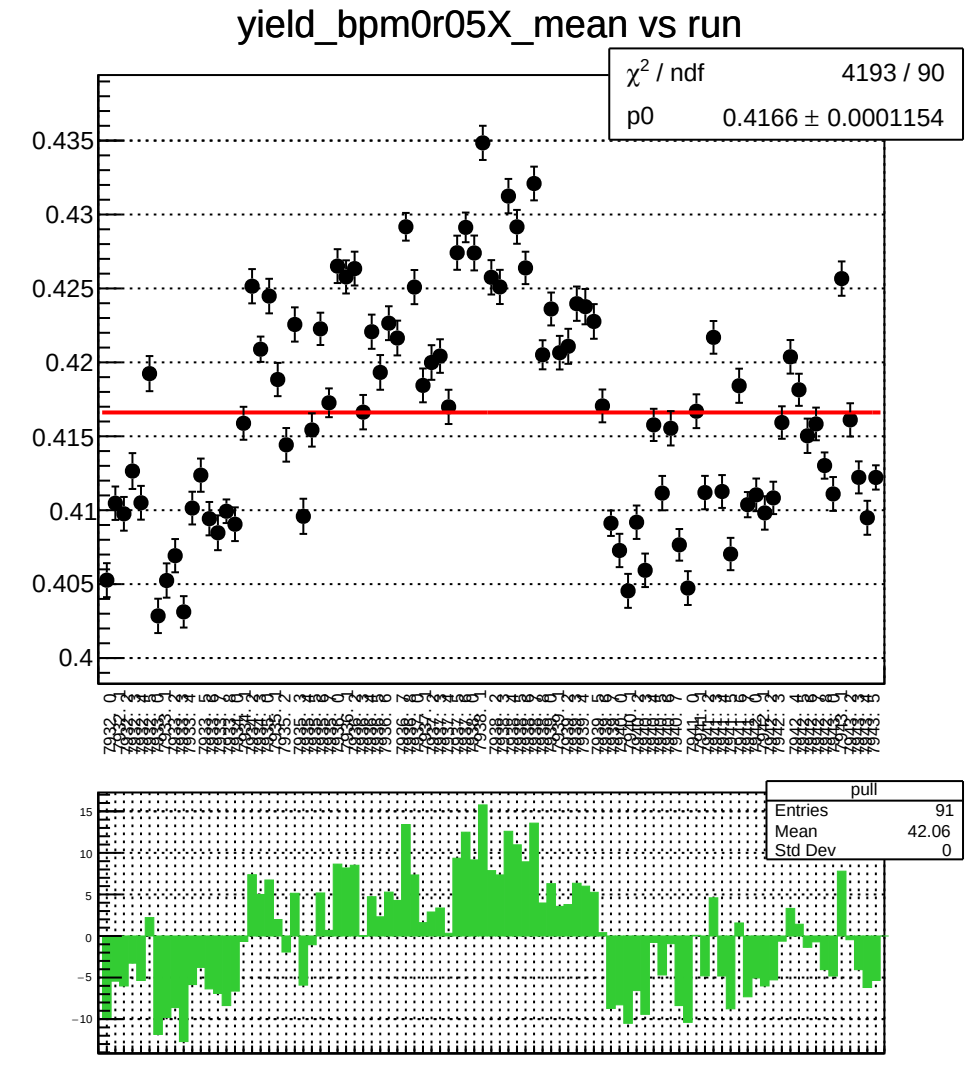

yield_bpm0r03X_mean vs run
χ² / ndf 1.061e+06 / 90
p0 −3.576 ± 8.956e−05
−3.45
−3.5
−3.55
−3.6
−3.65
−3.7
−3.75
pull
Entries 91
Mean −1696
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 91
Mean −2.991
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

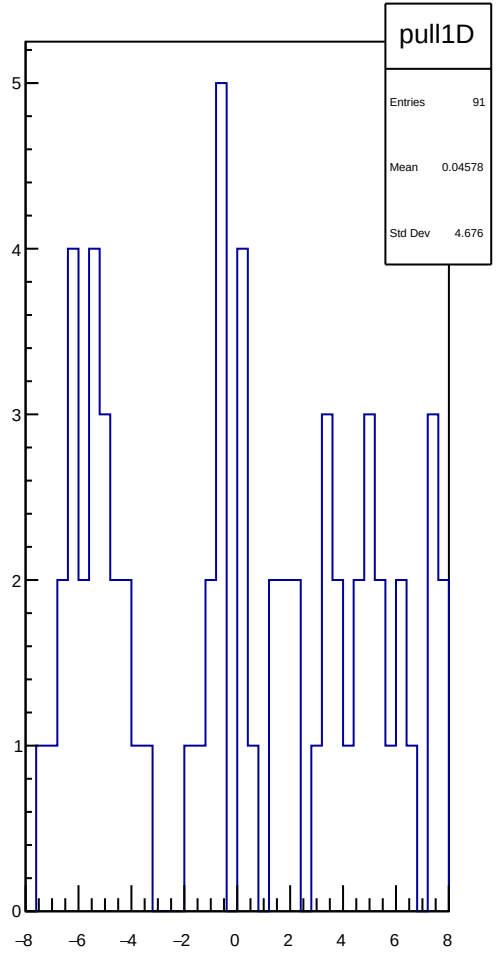

yield_bpm0r03X_rms vs run
χ² / ndf 1466 / 90
p0 0.0837 ± 6.333e−05
0.092
0.09
0.088
0.086
0.084
0.082
0.08
0.078
0.076

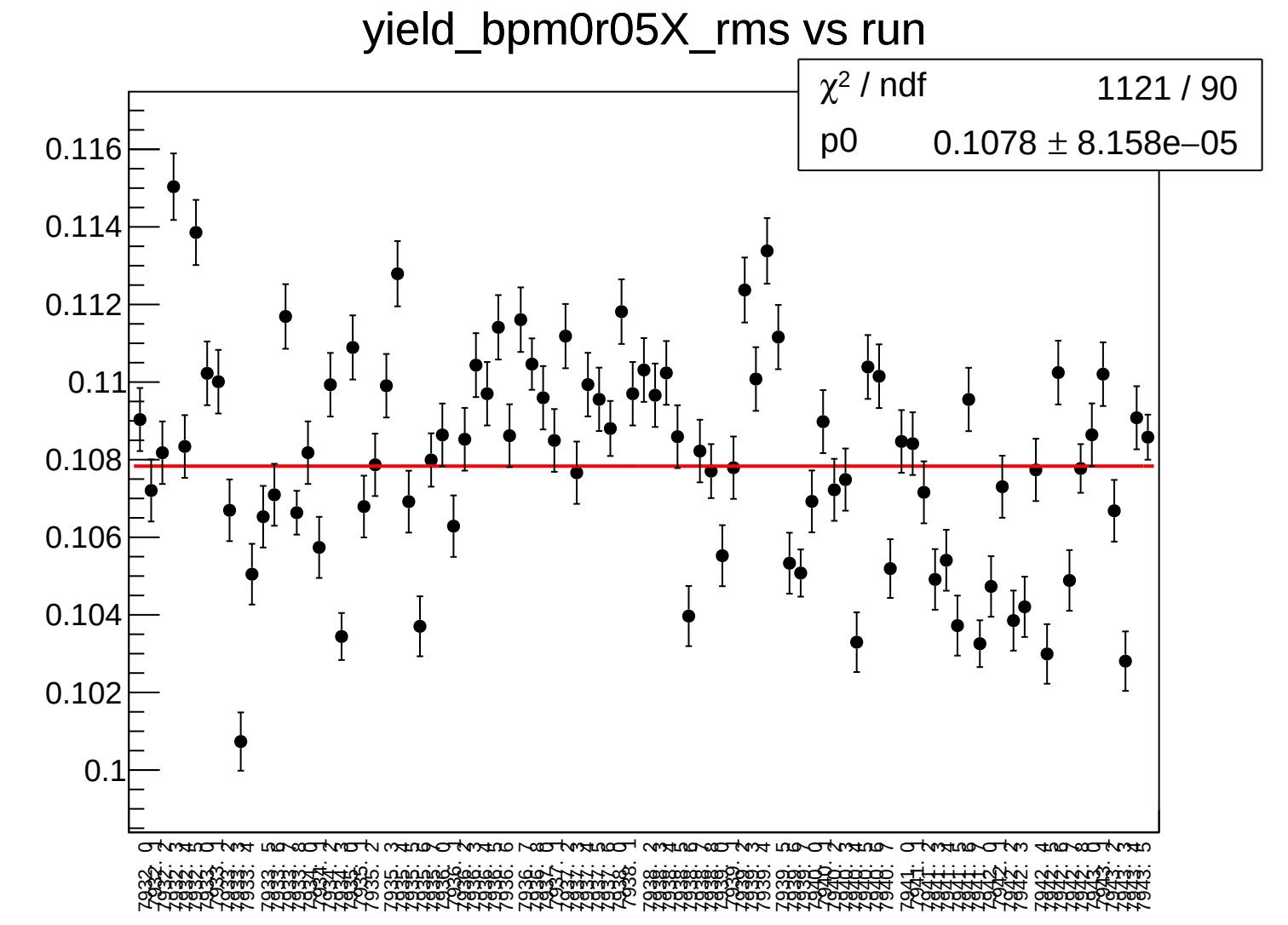

yield_bpm0r03Y_mean vs run
χ² / ndf 5.246e+06 / 90
p0 −0.3097 ± 7.029e−06
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
pull
Entries 91
Mean −4225
Std Dev 0
400
200
0
−200
−400

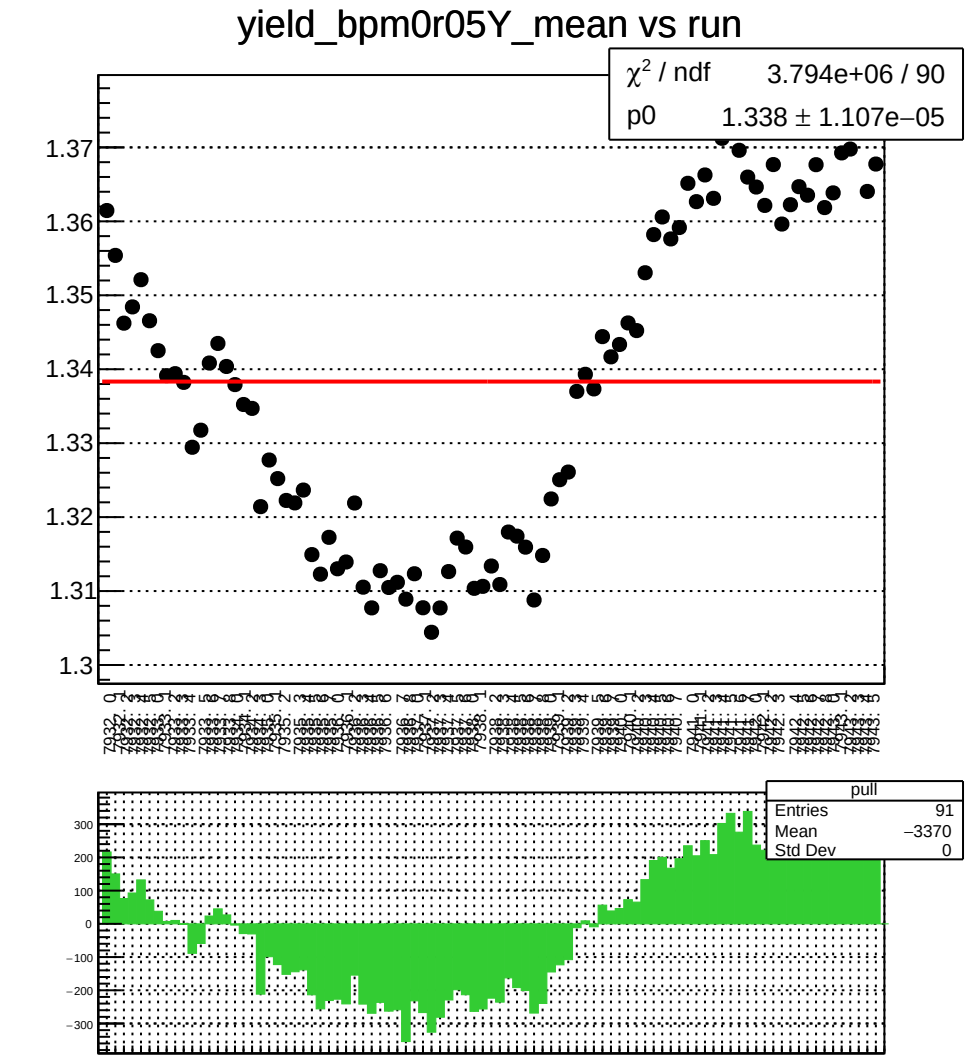

pull1D
Entries 91
Mean 0.5475
Std Dev 5.238
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

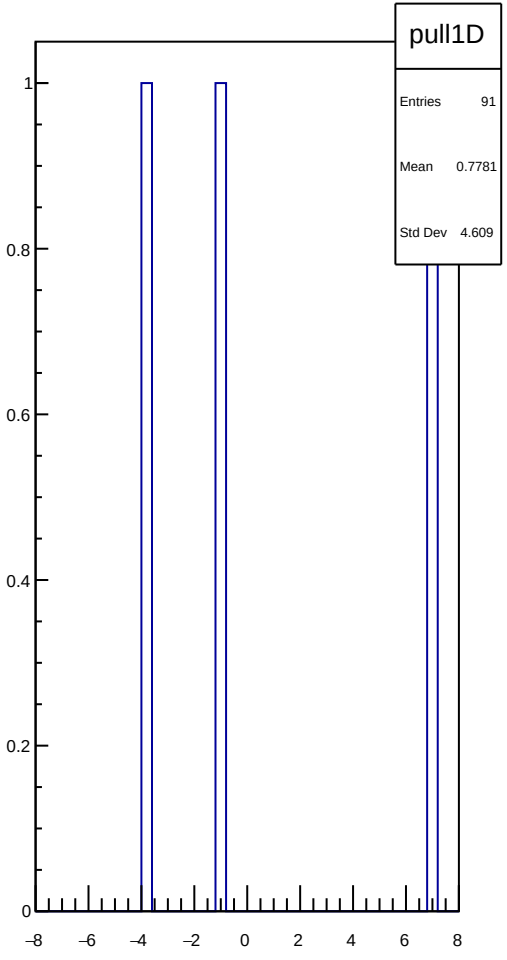

yield_bpm0r03Y_rms vs run
χ² / ndf 2883 / 90
p0 0.006566 ± 4.97e–06
0.008
0.0075
0.007
0.0065
0.006

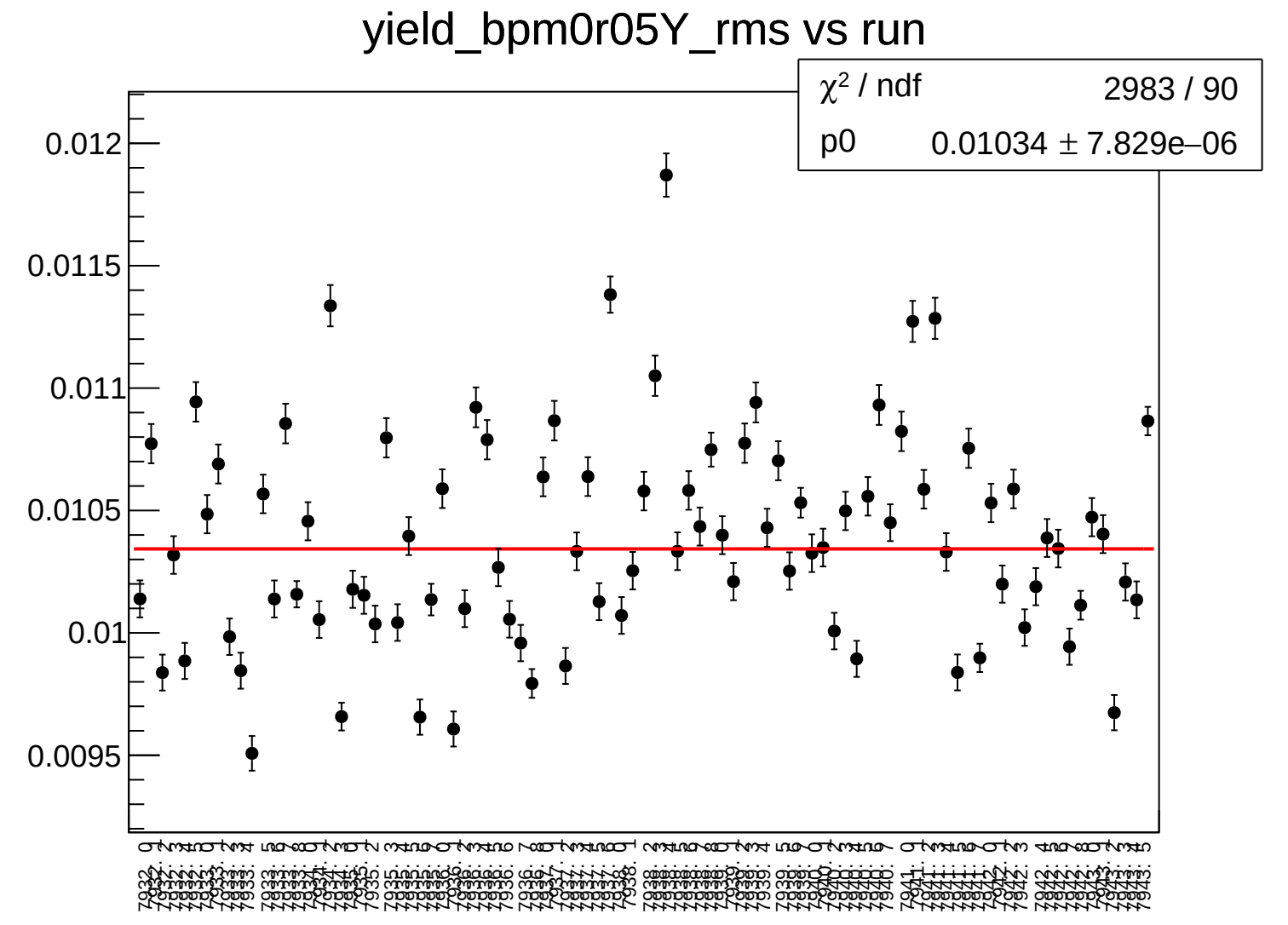

yield_bpm0r05X_mean vs run
χ² / ndf 4193 / 90
p0 0.4166 ± 0.0001154
pull
Entries 91
Mean 42.06
Std Dev 0

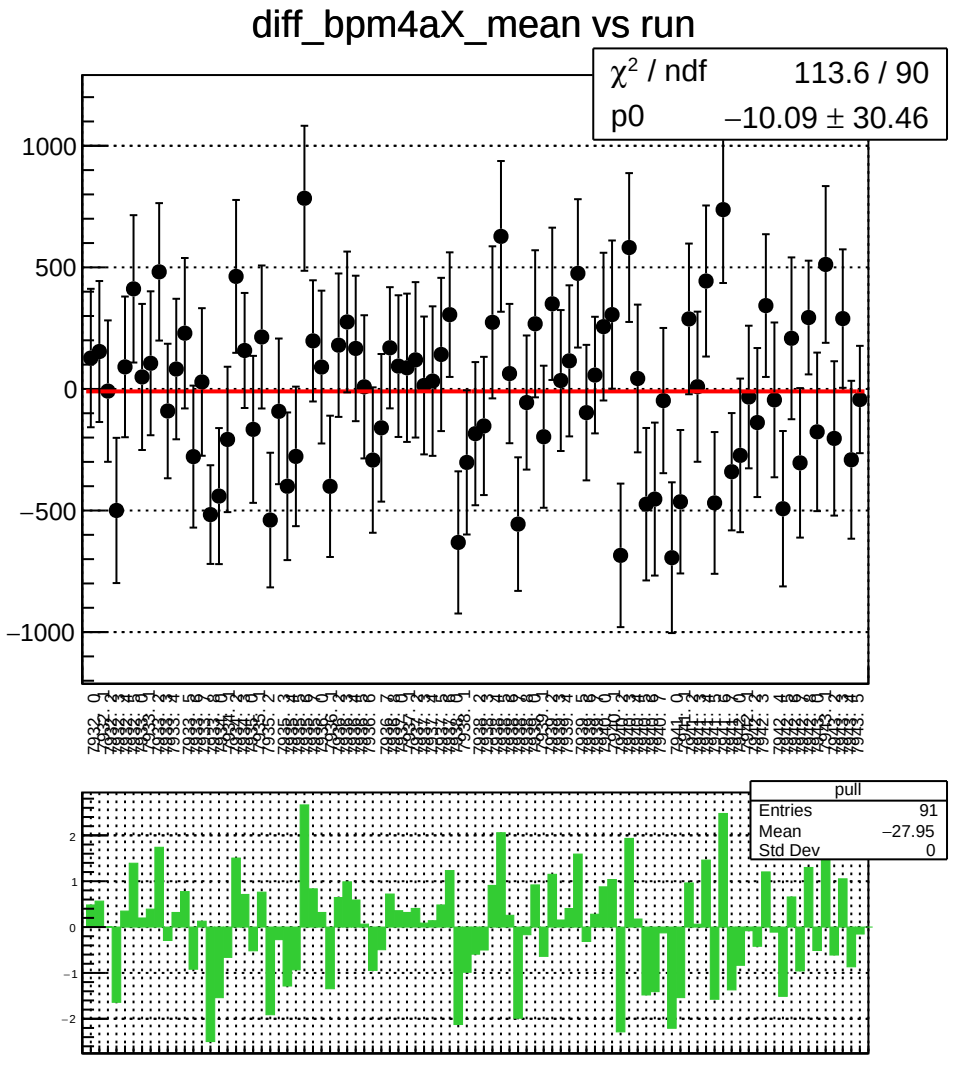

pull1D
Entries 91
Mean 0.04578
Std Dev 4.676

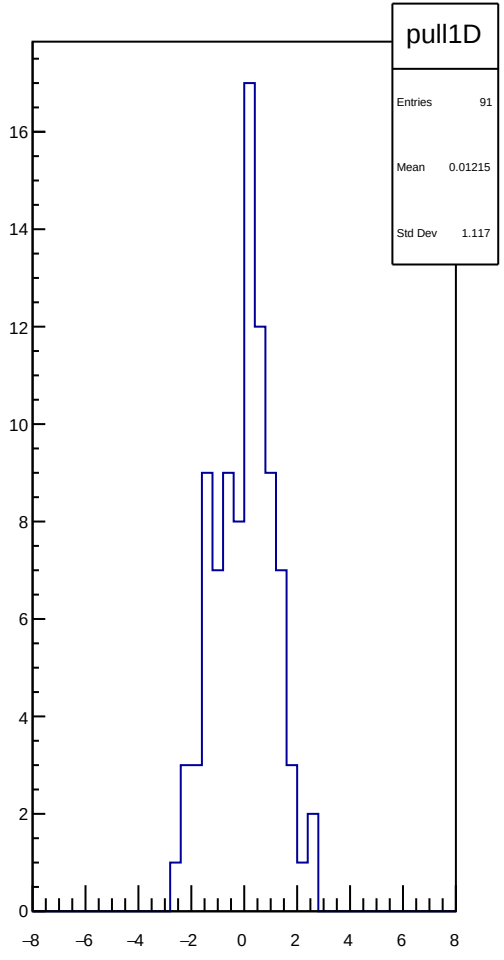

yield_bpm0r05X_rms vs run
χ² / ndf 1121 / 90
p0 0.1078 ± 8.158e−05
0.116
0.114
0.112
0.11
0.108
0.106
0.104
0.102
0.1


yield_bpm0r05Y_mean vs run
χ² / ndf 3.794e+06 / 90
p0 1.338 ± 1.107e−05
1.37
1.36
1.35
1.34
1.33
1.32
1.31
1.3
pull
Entries 91
Mean −3370
Std Dev 0
300
200
100
0
−100
−200
−300

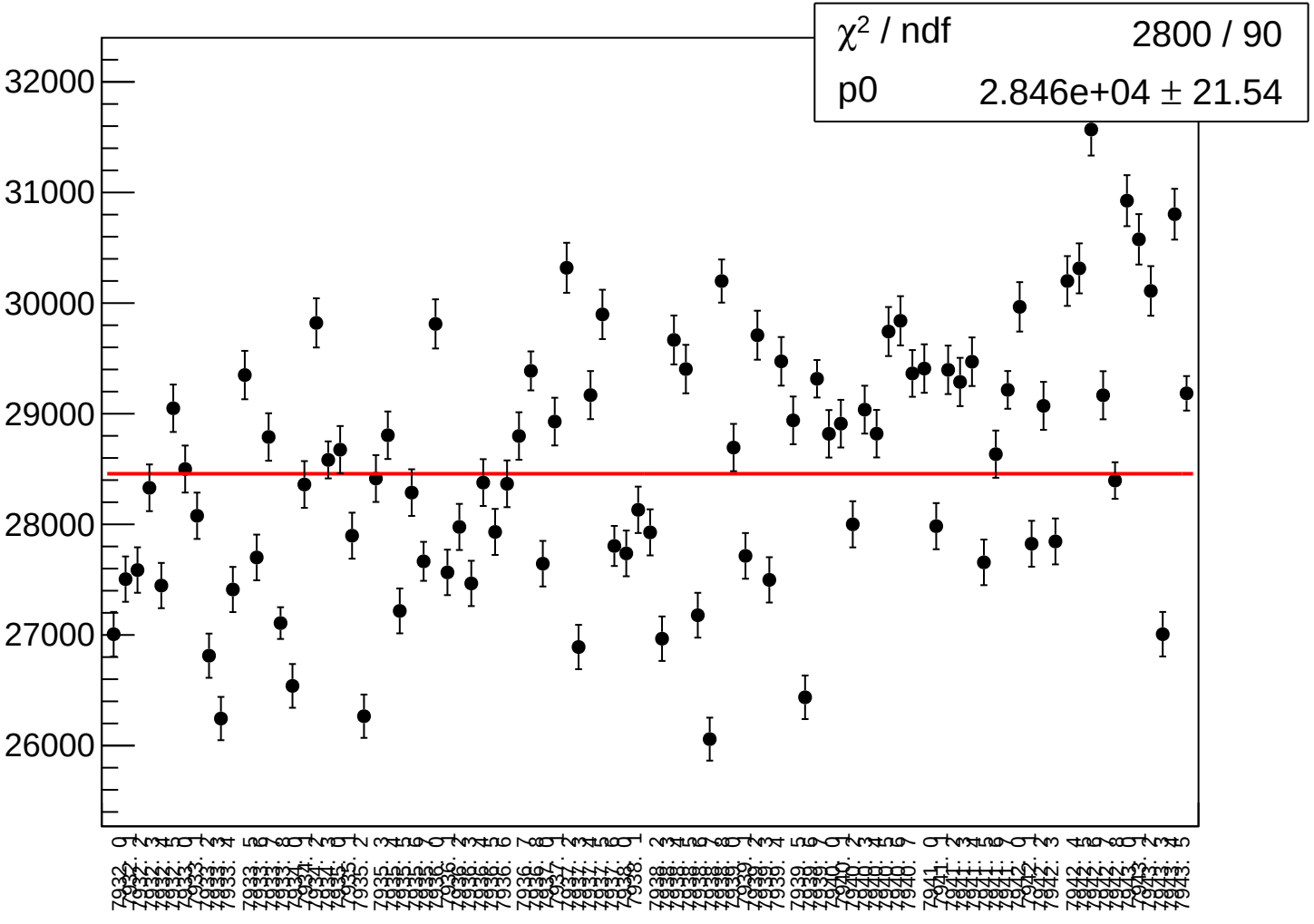

pull1D
Entries 91
Mean 0.7781
Std Dev 4.609
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

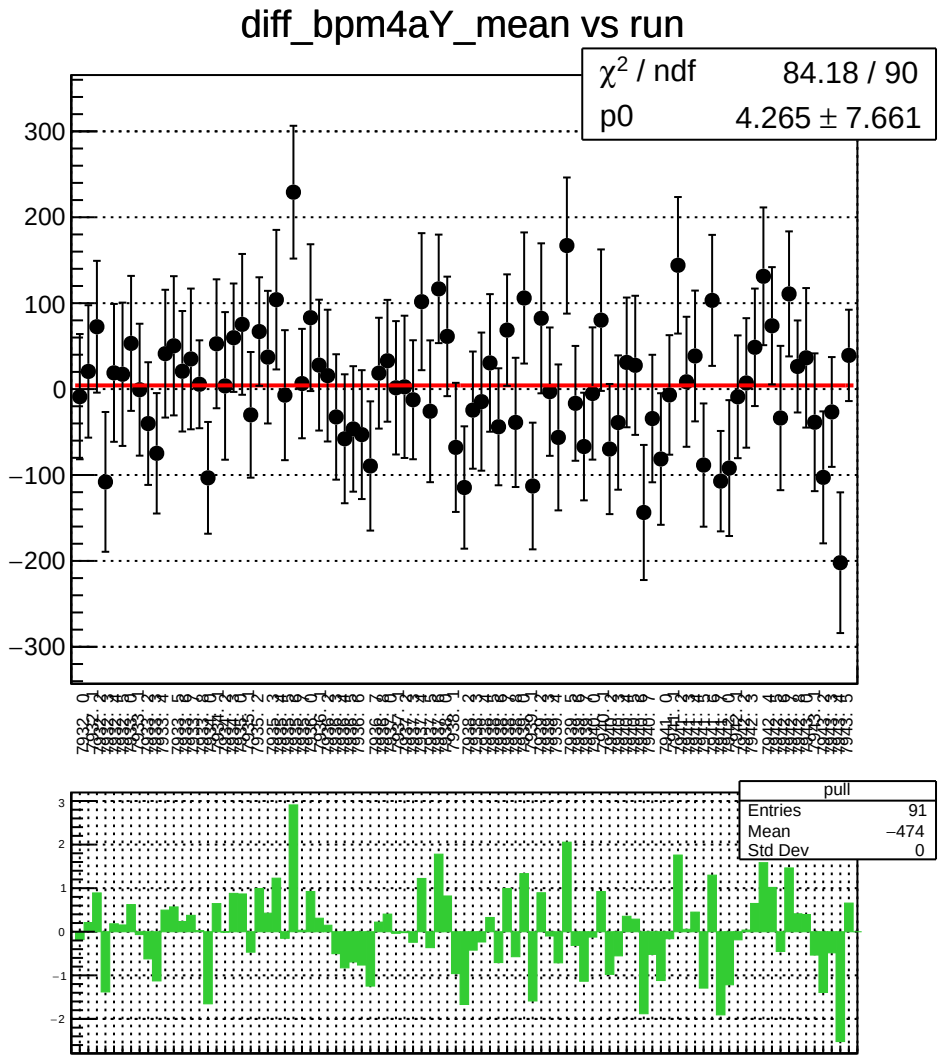

yield_bpm0r05Y_rms vs run
χ² / ndf 2983 / 90
p0 0.01034 ± 7.829e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095

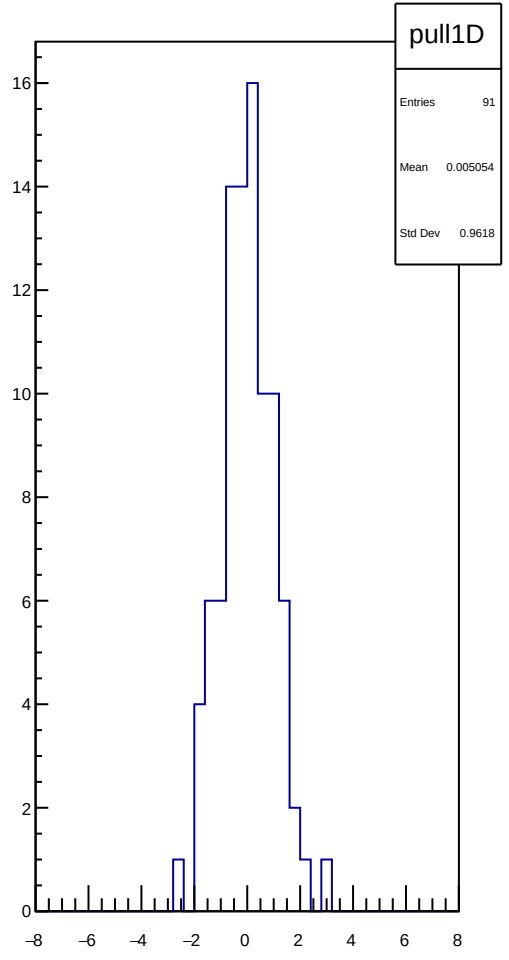

diff_bpm4aX_mean vs run
χ² / ndf 113.6 / 90
p0 −10.09 ± 30.46
1000
500
0
−500
−1000
pull
Entries 91
Mean −27.95
Std Dev 0
2
1
0
−1
−2

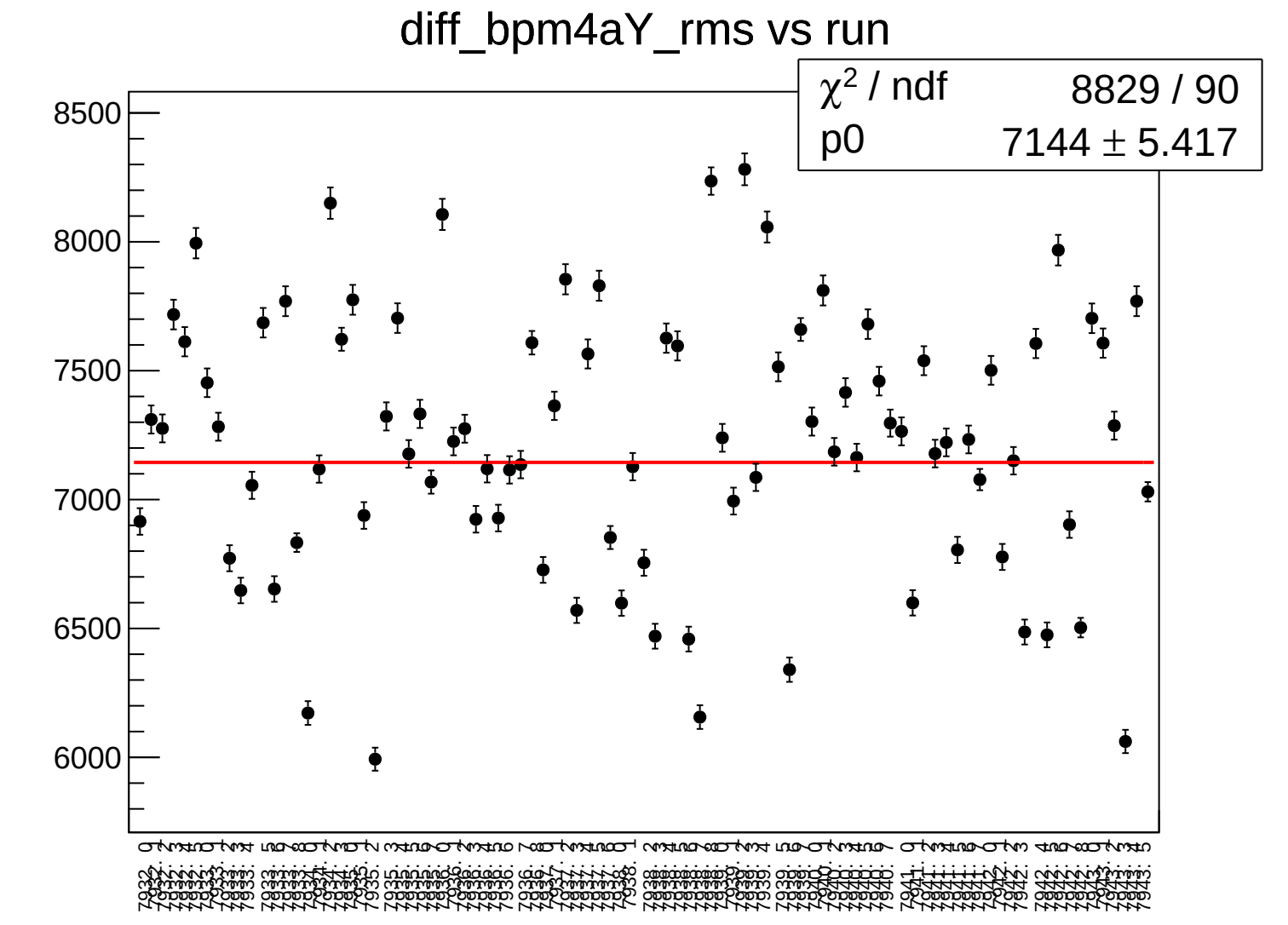

pull1D
Entries 91
Mean 0.01215
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

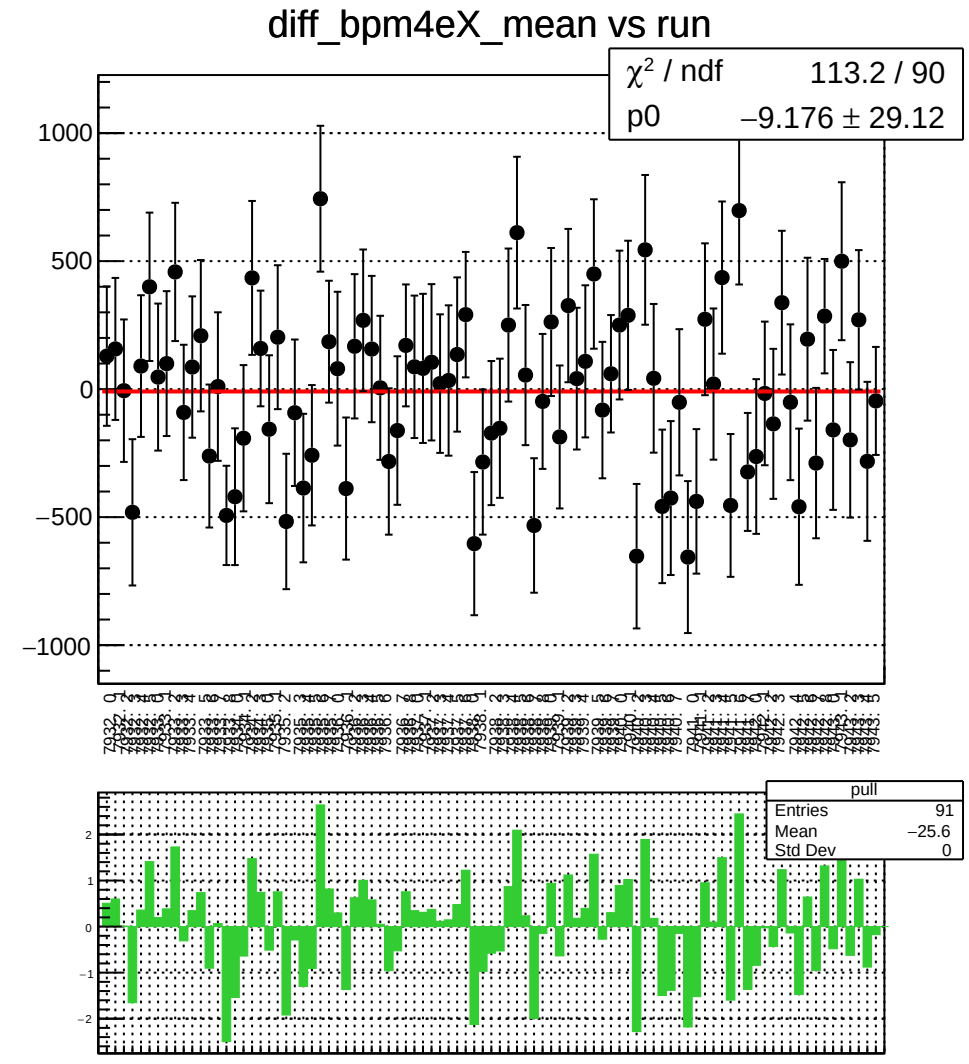
diff_bpm4aX_rms vs run

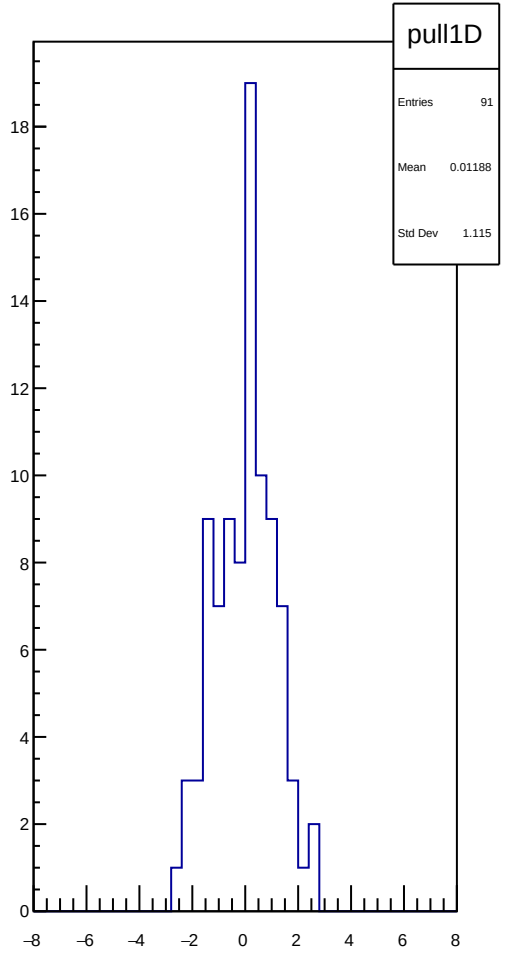


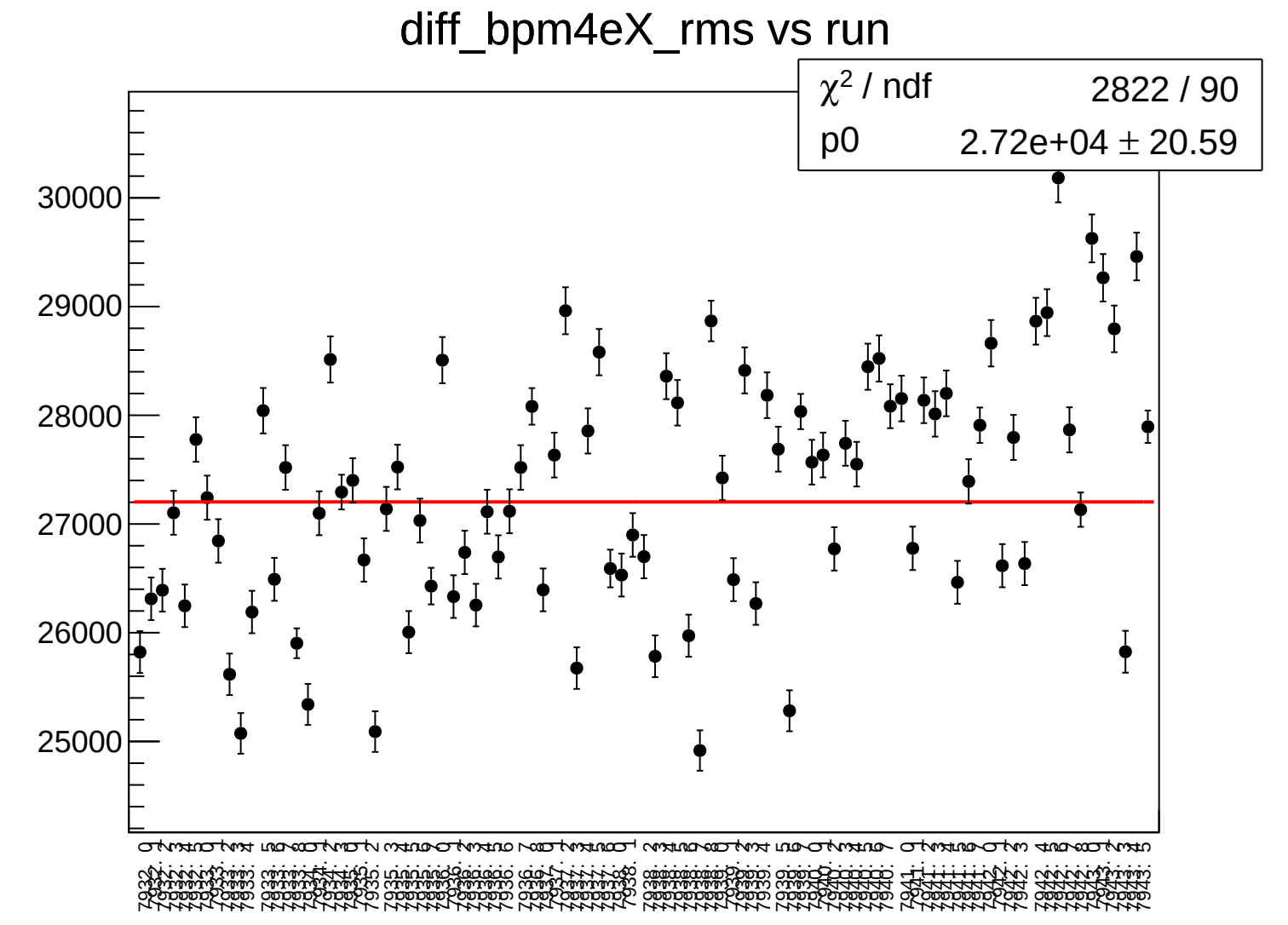

diff_bpm4aY_mean vs run
χ² / ndf 84.18 / 90
p0 4.265 ± 7.661
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −474
Std Dev 0
3
2
1
0
−1
−2

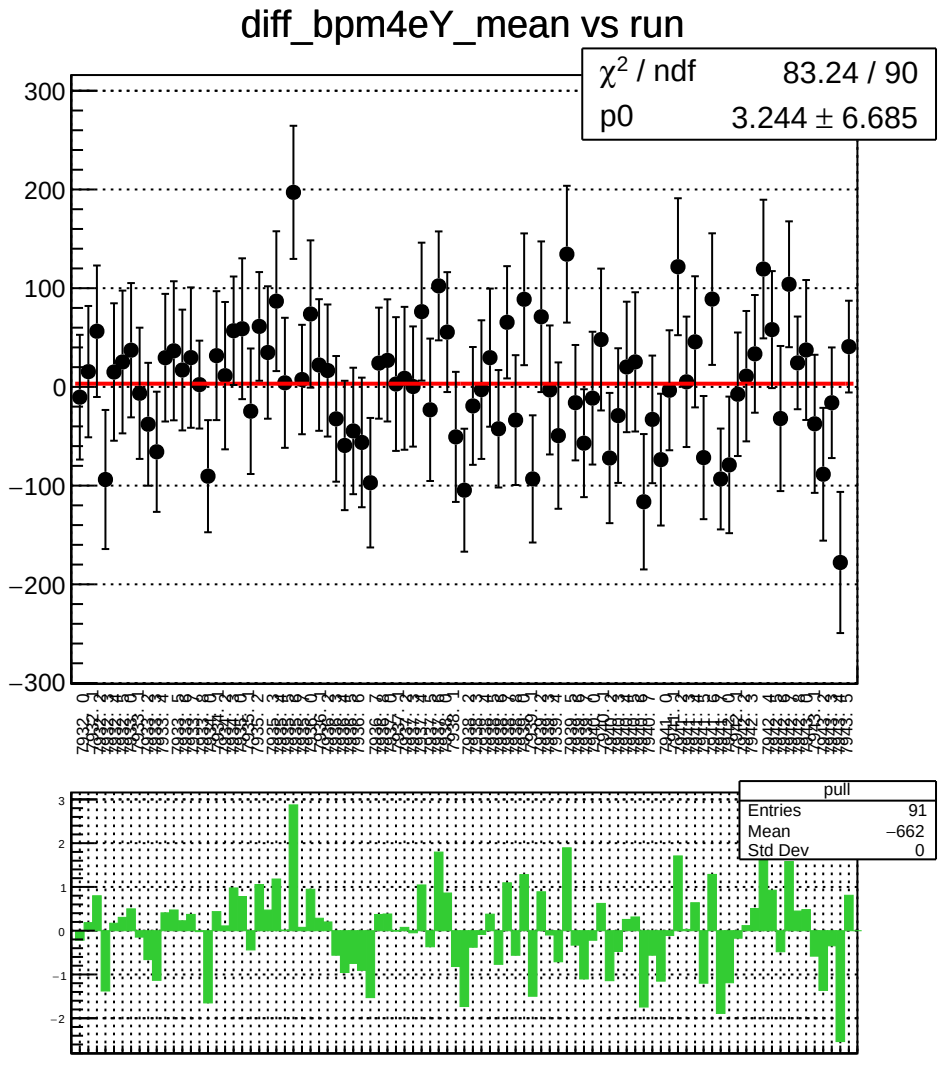

pull1D
Entries 91
Mean 0.005054
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

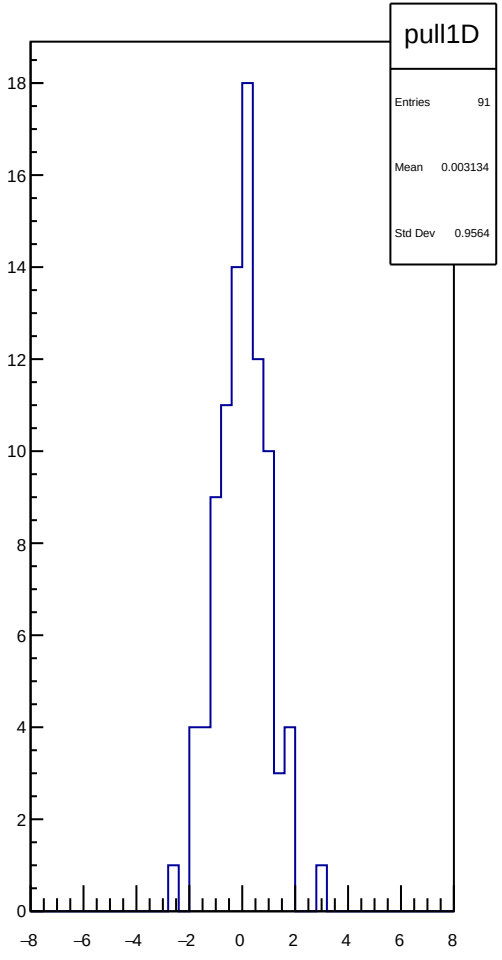

diff_bpm4aY_rms vs run
χ² / ndf 8829 / 90
p0 7144 ± 5.417
8500
8000
7500
7000
6500
6000

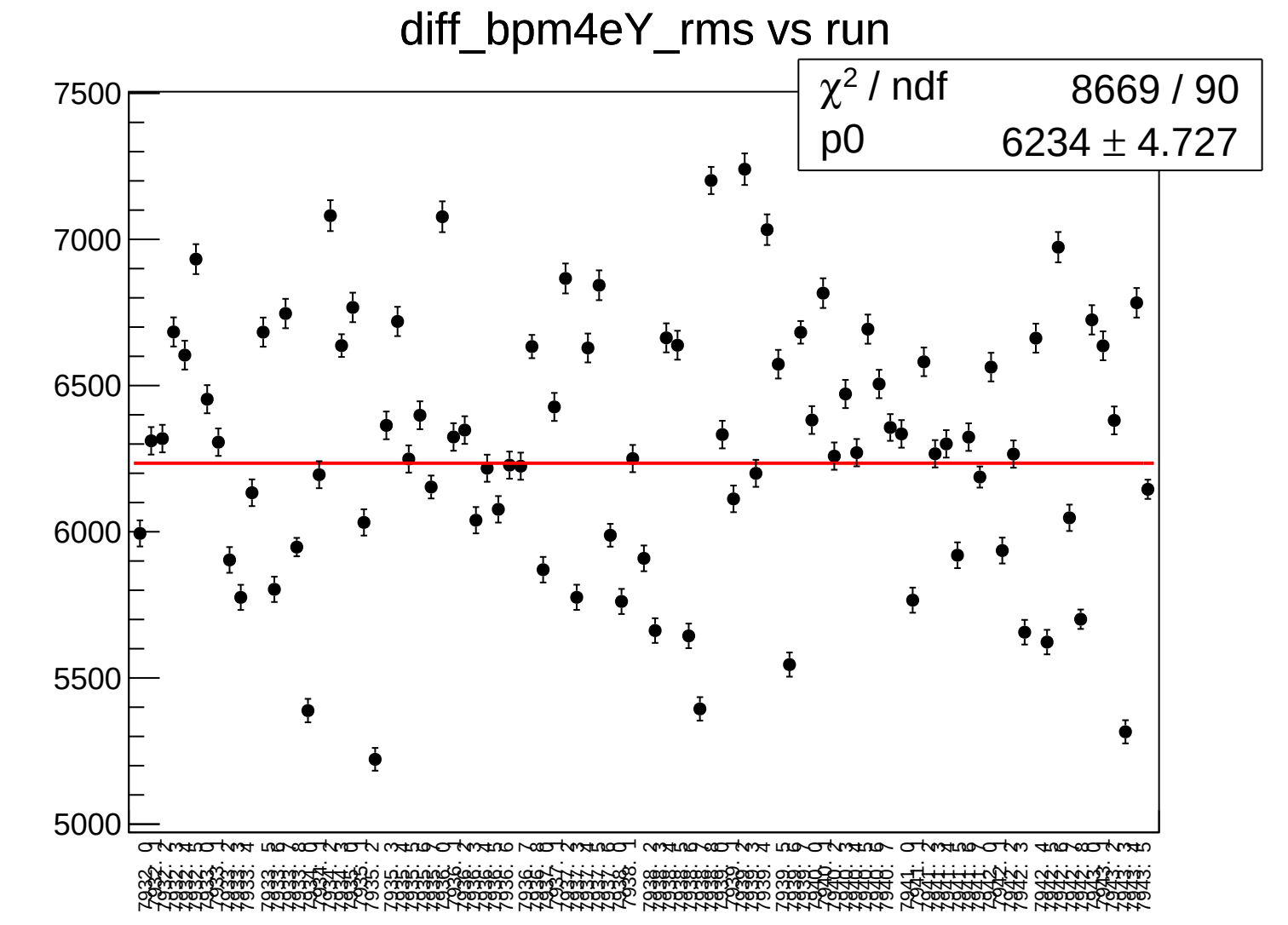

diff_bpm4eX_mean vs run
χ² / ndf 113.2 / 90
p0 −9.176 ± 29.12
1000
500
0
−500
−1000
pull
Entries 91
Mean −25.6
Std Dev 0
2
1
0
−1
−2

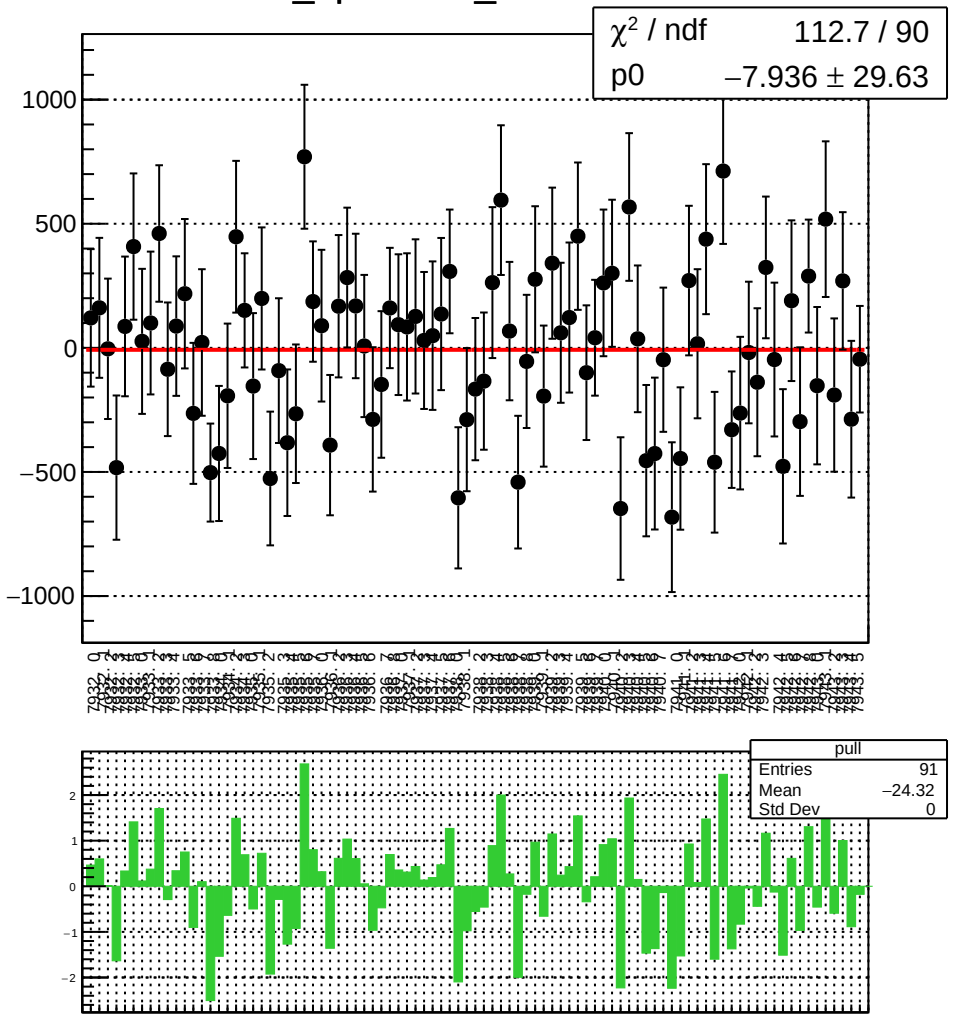

pull1D
Entries 91
Mean 0.01188
Std Dev 1.115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

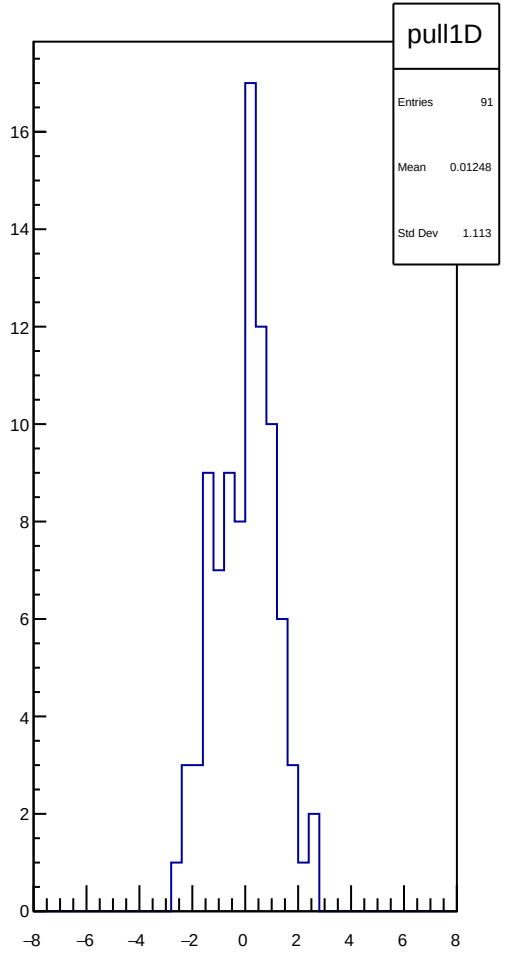

diff_bpm4eX_rms vs run
χ^2 / ndf 2822 / 90
p0 2.72e+04 ± 20.59
30000
29000
28000
27000
26000
25000


diff_bpm4eY_mean vs run
χ² / ndf 83.24 / 90
p0 3.244 ± 6.685
pull
Entries 91
Mean −662
Std Dev 0

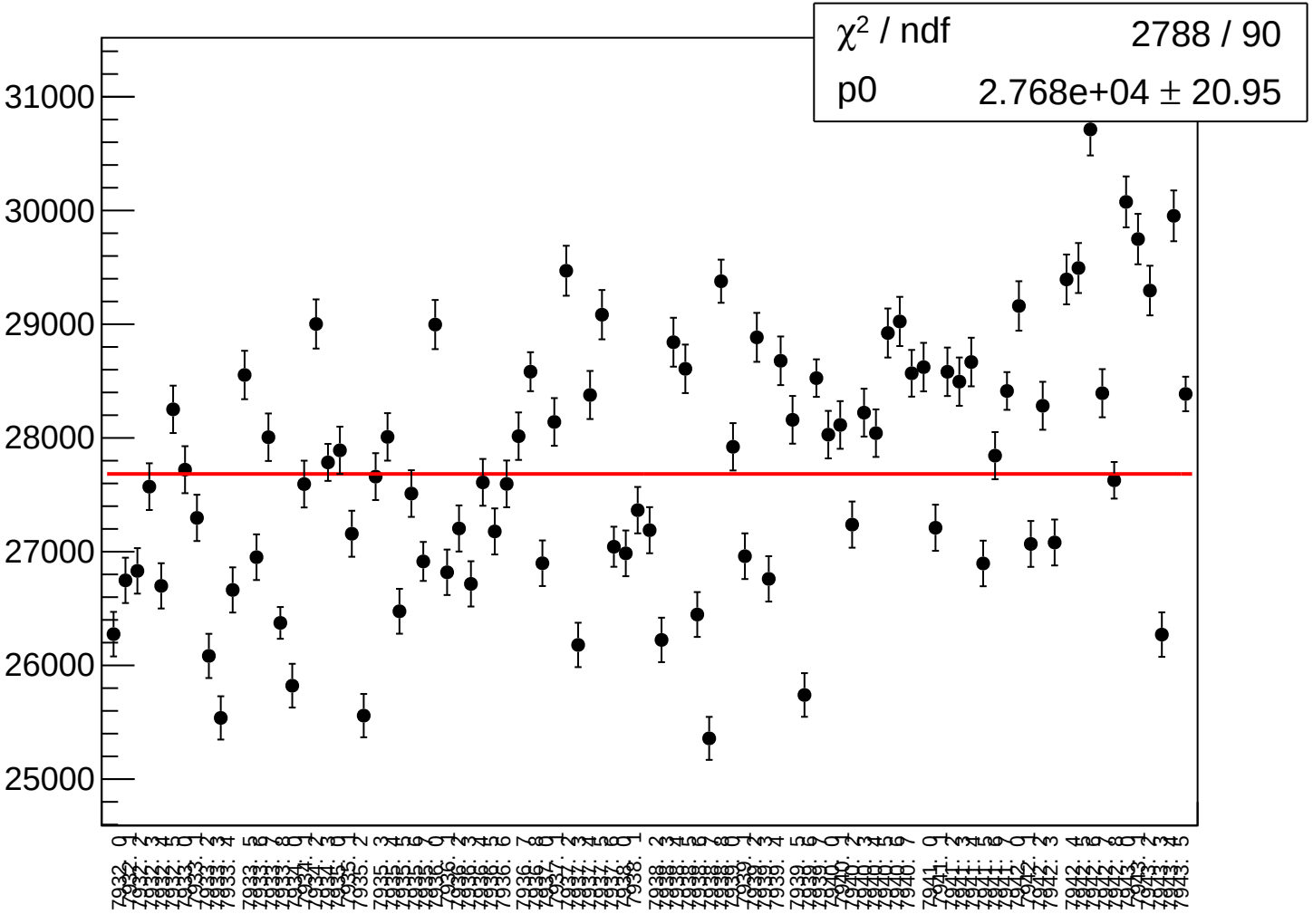

pull1D
Entries 91
Mean 0.003134
Std Dev 0.9564

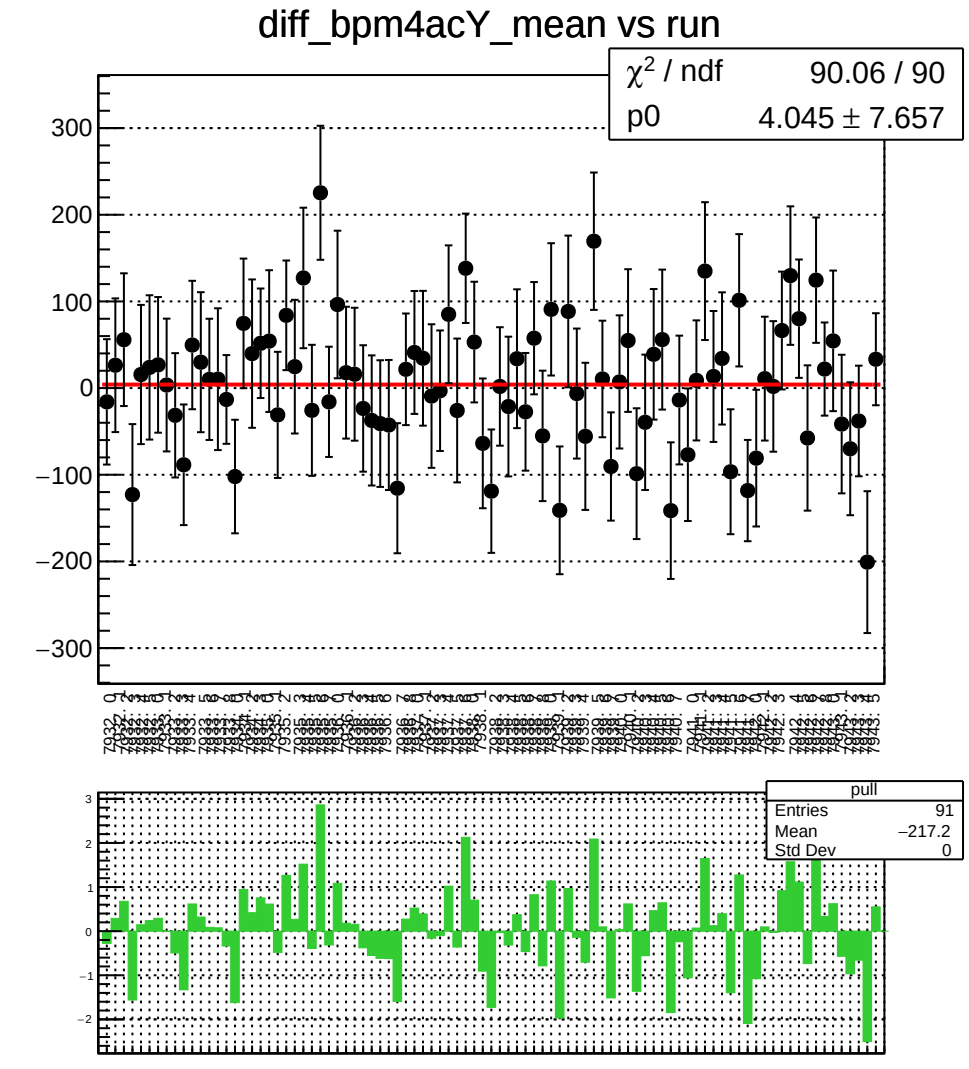

diff_bpm4eY_rms vs run
χ^2 / ndf 8669 / 90
p0 6234 ± 4.727
7500
7000
6500
6000
5500
5000

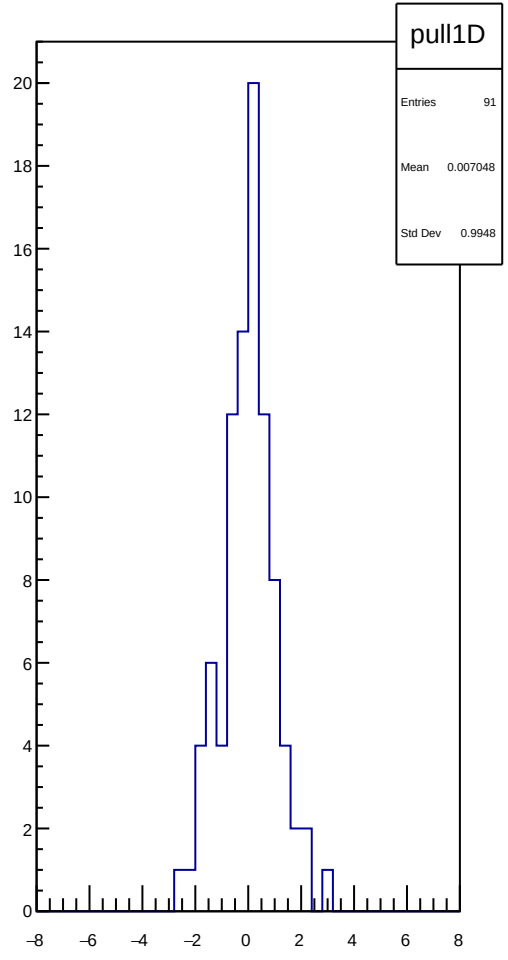

diff_bpm4acX_mean vs run
χ² / ndf 112.7 / 90
p0 −7.936 ± 29.63
pull
Entries 91
Mean −24.32
Std Dev 0

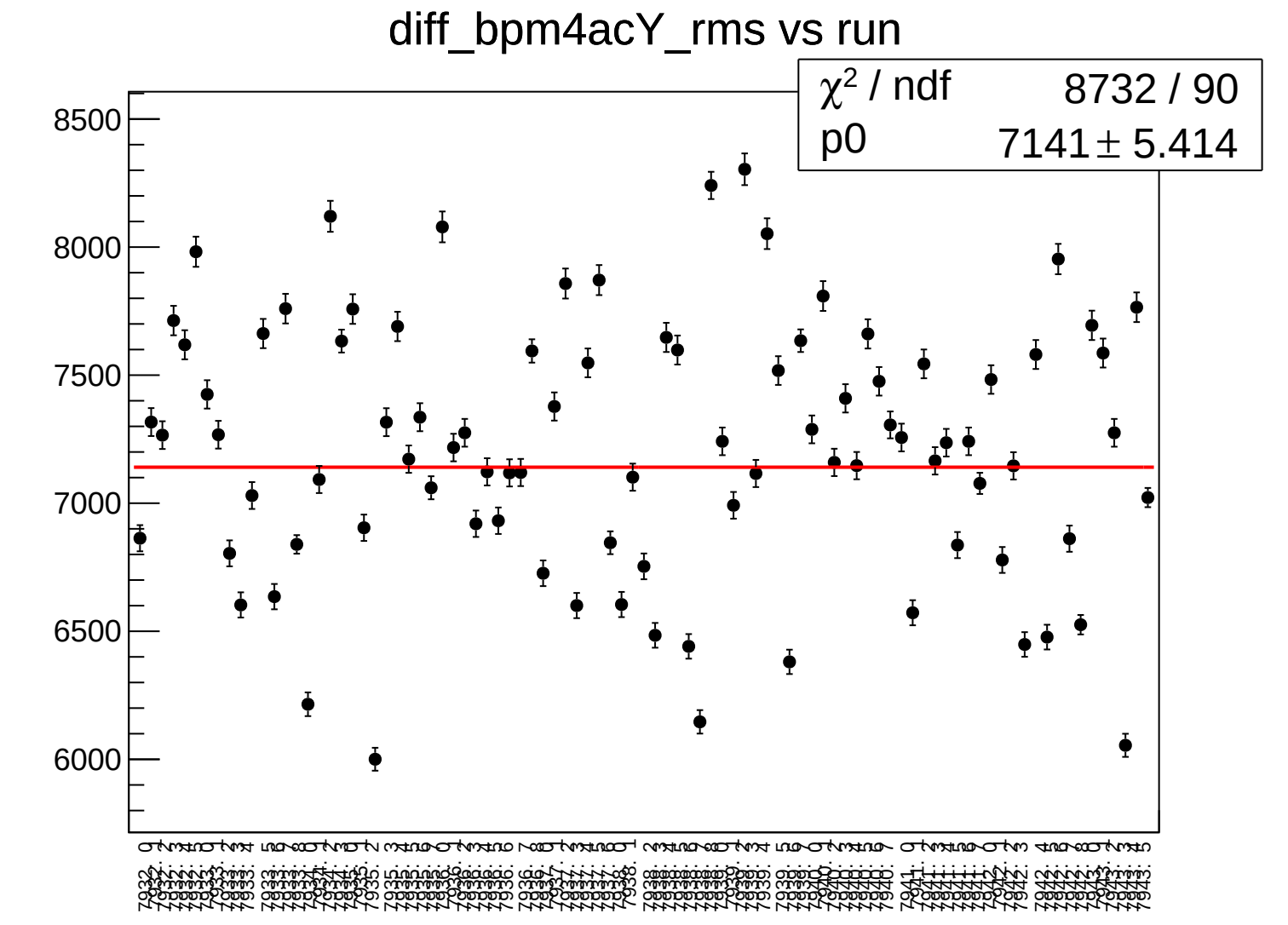

pull1D
Entries 91
Mean 0.01248
Std Dev 1.113

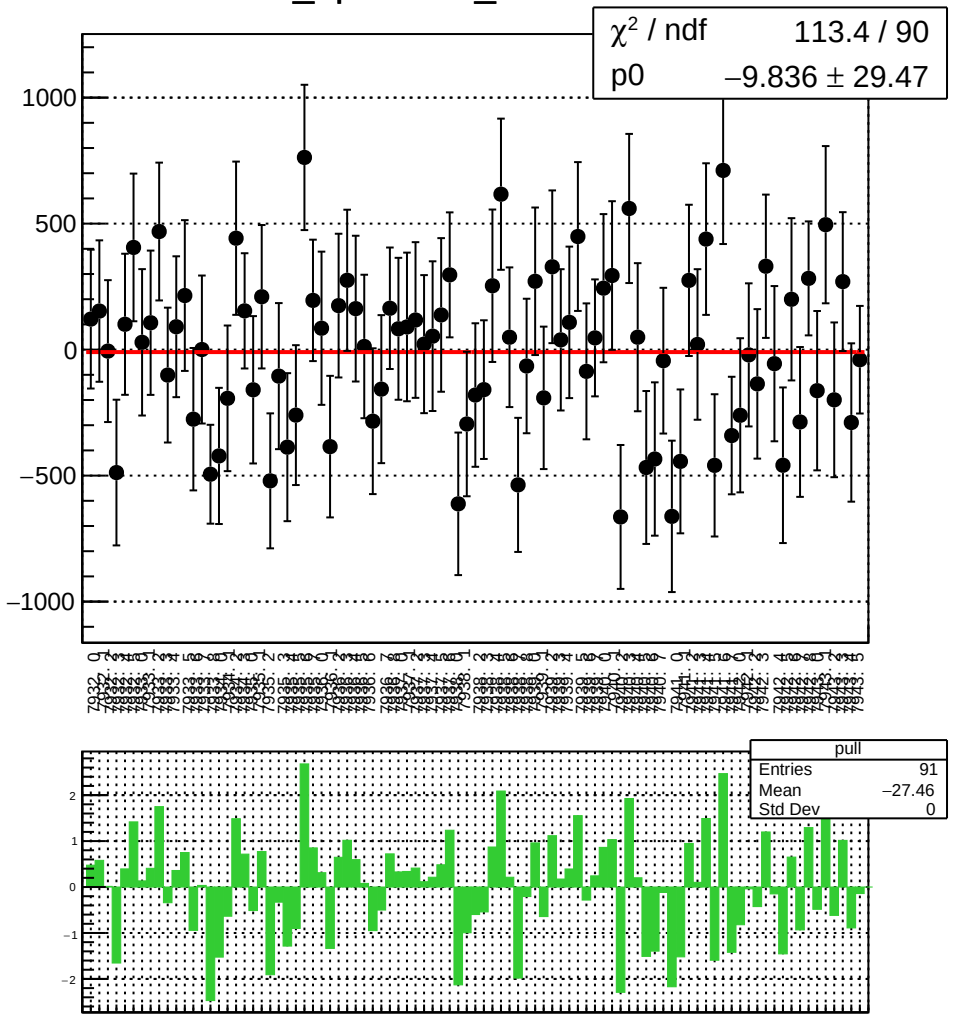
diff_bpm4acX_rms vs run

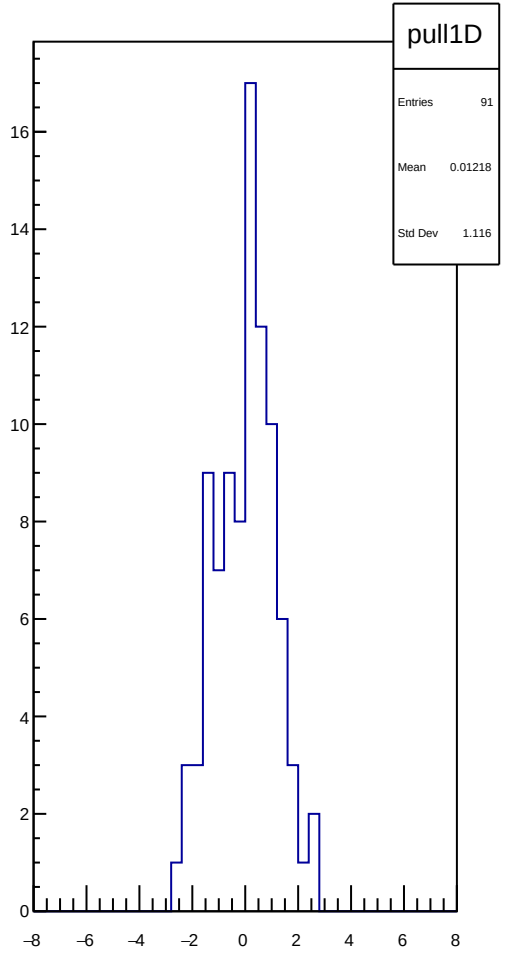


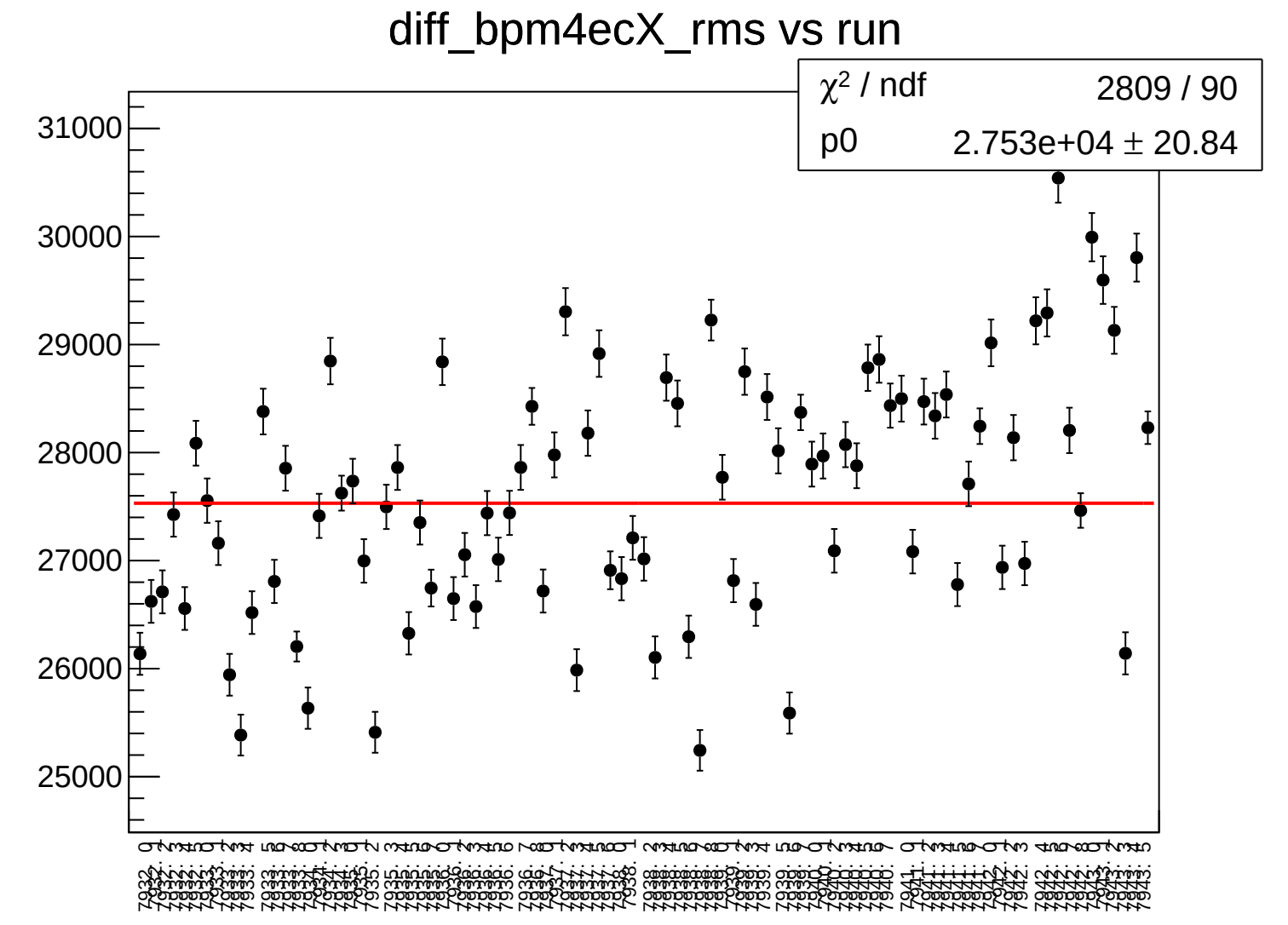

diff_bpm4acY_mean vs run
χ² / ndf 90.06 / 90
p0 4.045 ± 7.657
pull
Entries 91
Mean −217.2
Std Dev 0

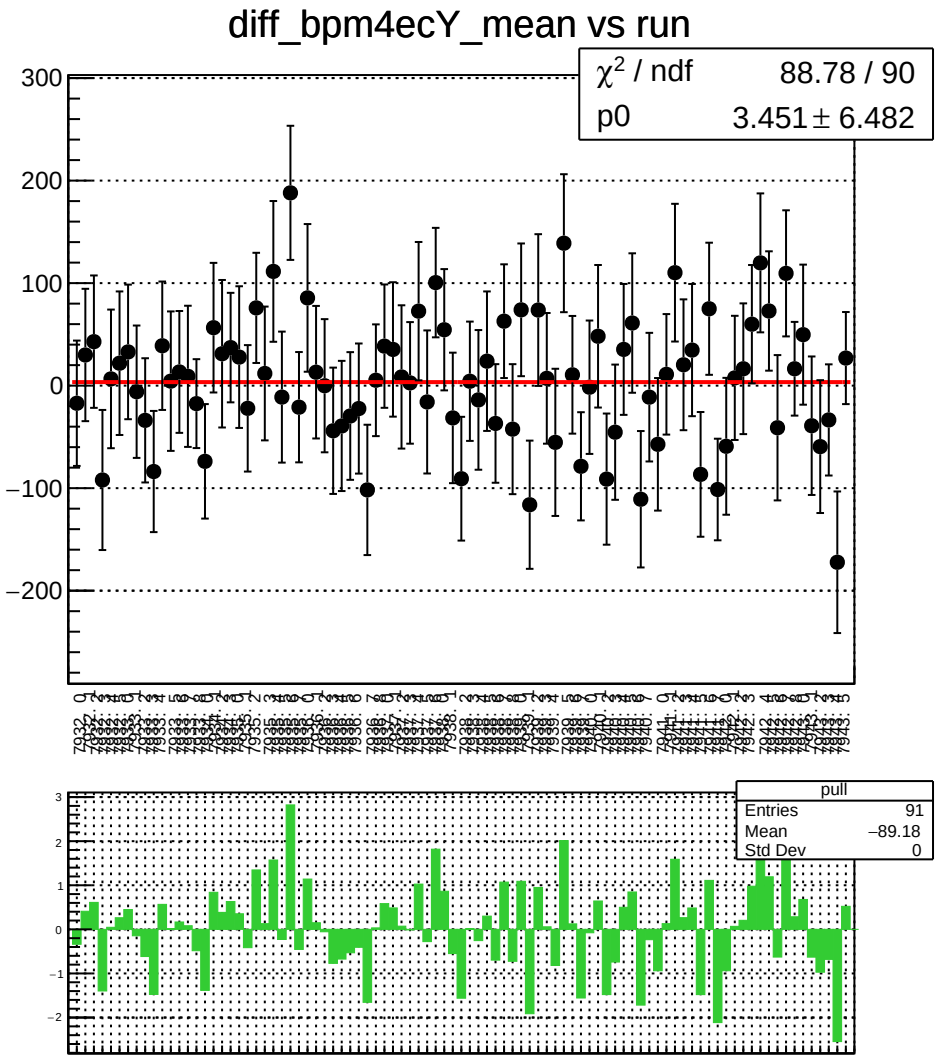

pull1D
Entries 91
Mean 0.007048
Std Dev 0.9948

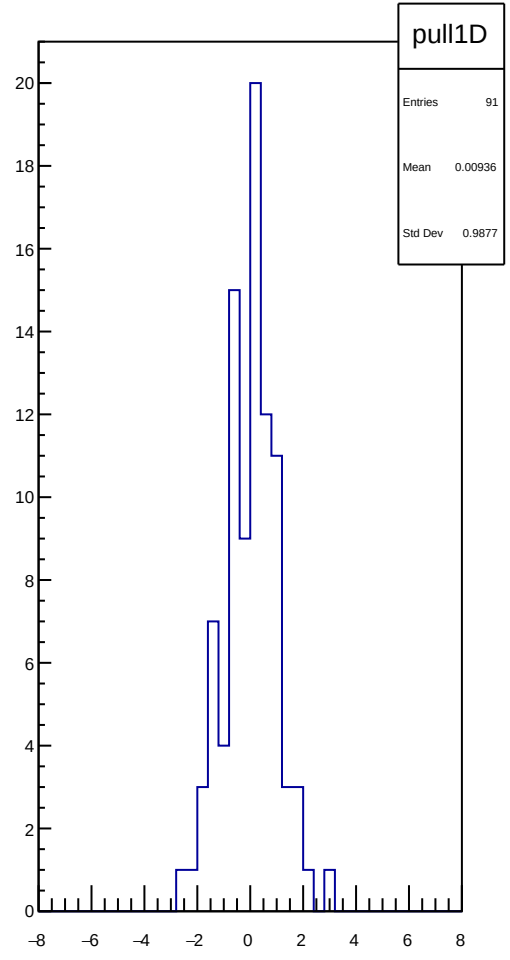

diff_bpm4acY_rms vs run
χ² / ndf 8732 / 90
p0 7141 ± 5.414
8500
8000
7500
7000
6500
6000

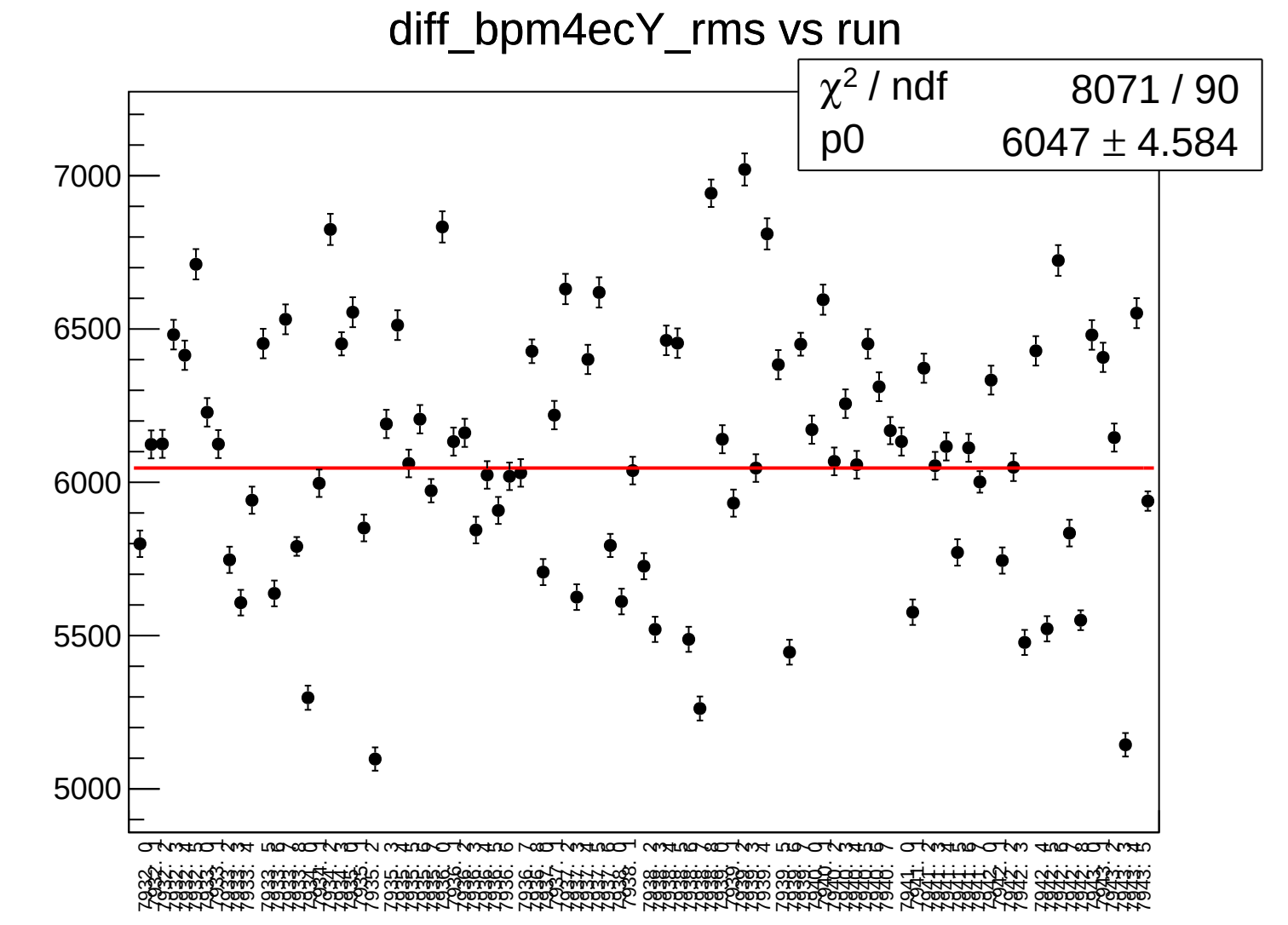

diff_bpm4ecX_mean vs run
χ² / ndf 113.4 / 90
p0 −9.836 ± 29.47
1000
500
0
−500
−1000
pull
Entries 91
Mean −27.46
Std Dev 0
2
1
0
−1
−2

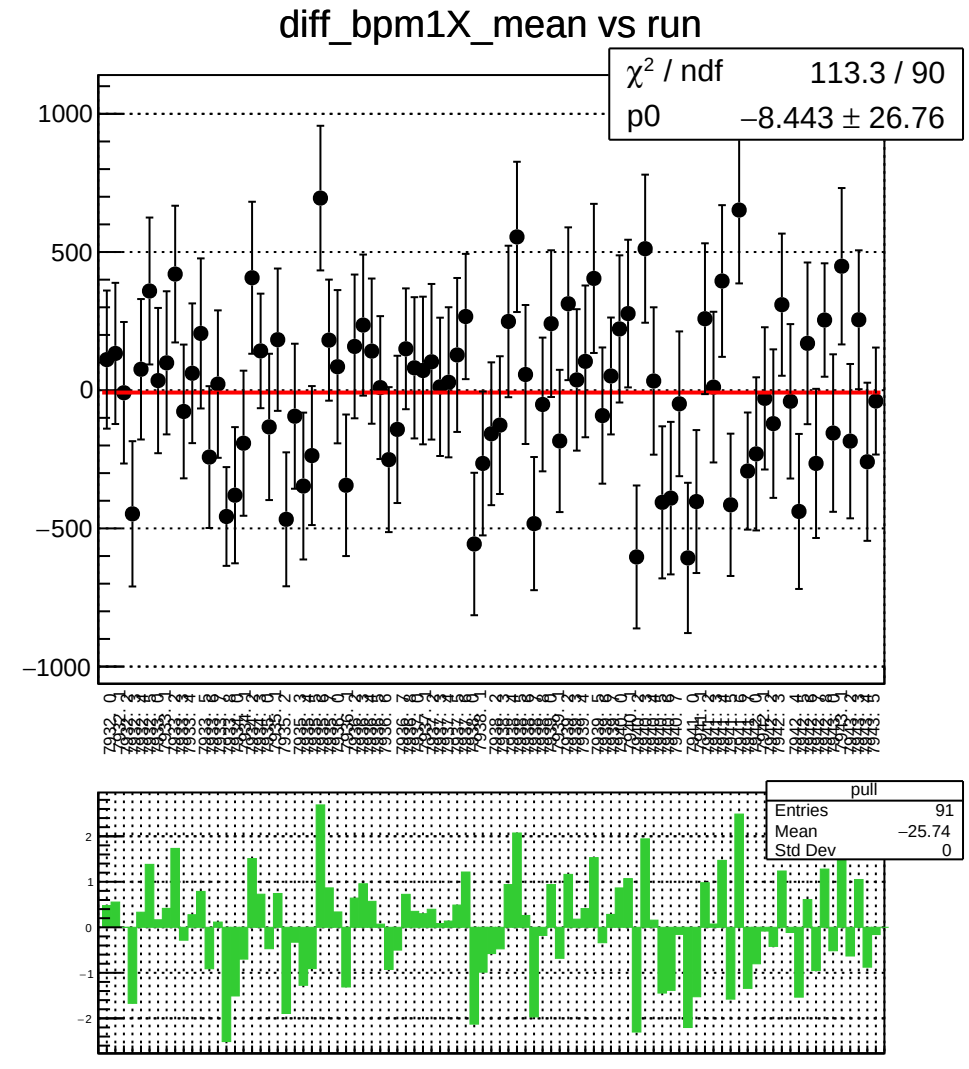

pull1D
Entries 91
Mean 0.01218
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

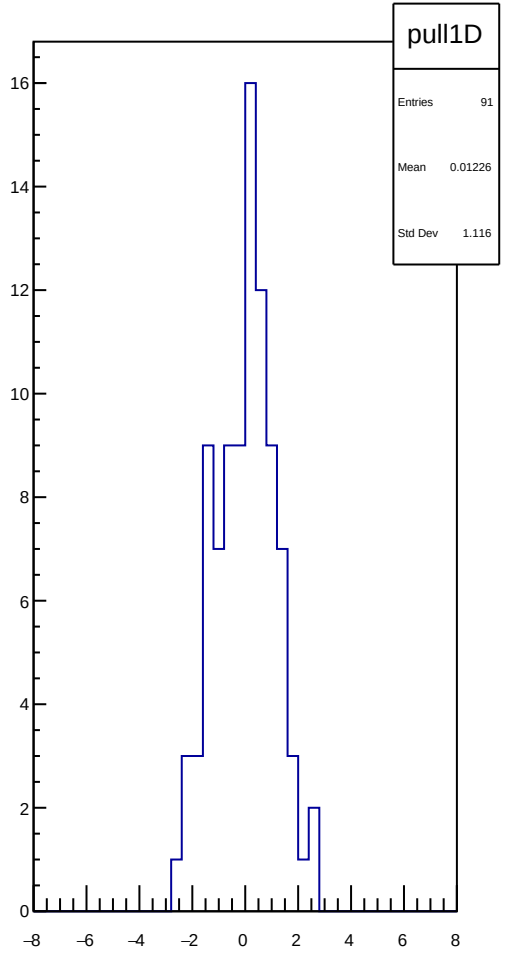

diff_bpm4ecX_rms vs run
χ² / ndf 2809 / 90
p0 2.753e+04 ± 20.84
31000
30000
29000
28000
27000
26000
25000

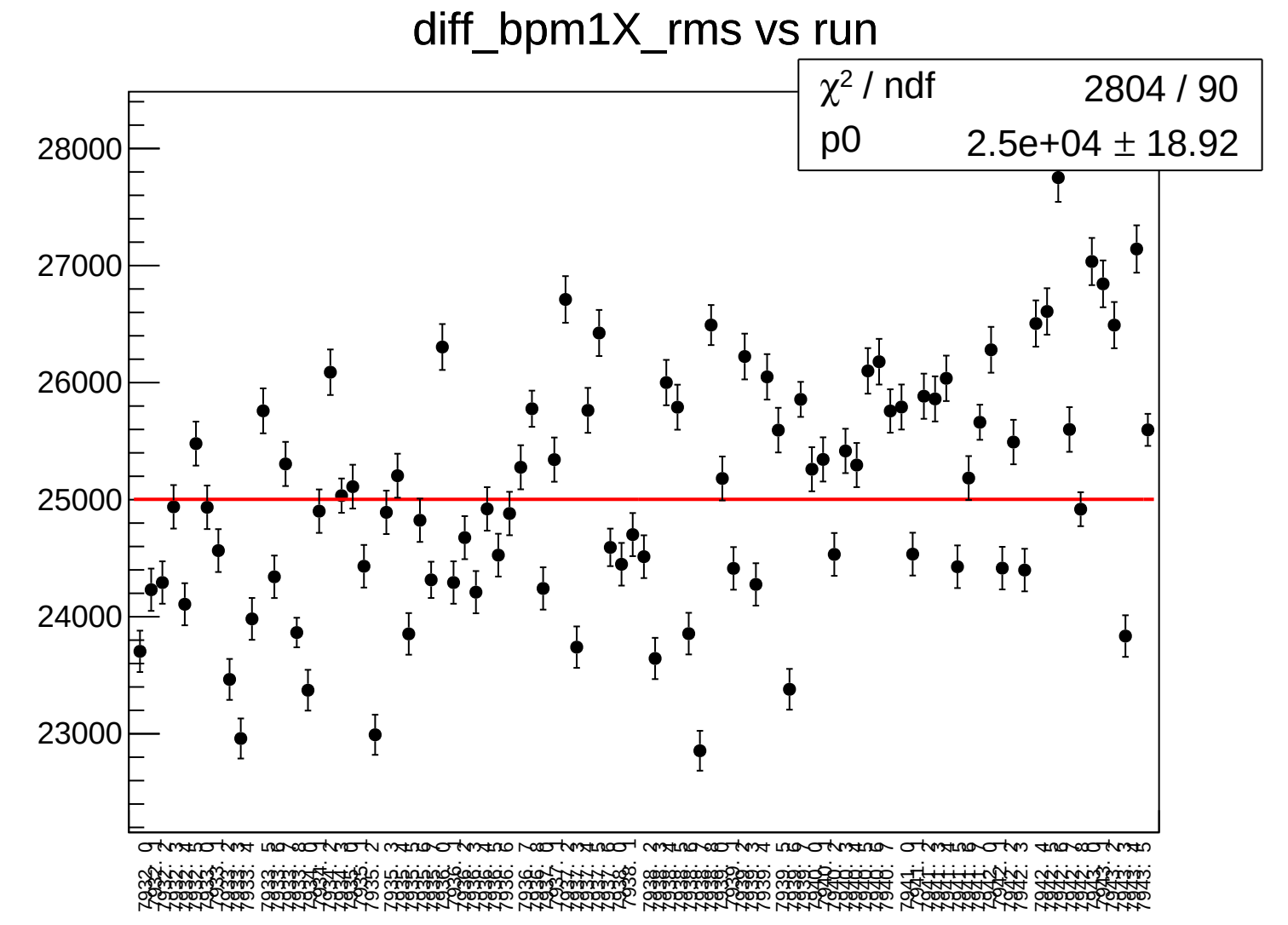

diff_bpm4ecY_mean vs run
χ² / ndf 88.78 / 90
p0 3.451 ± 6.482
pull
Entries 91
Mean −89.18
Std Dev 0

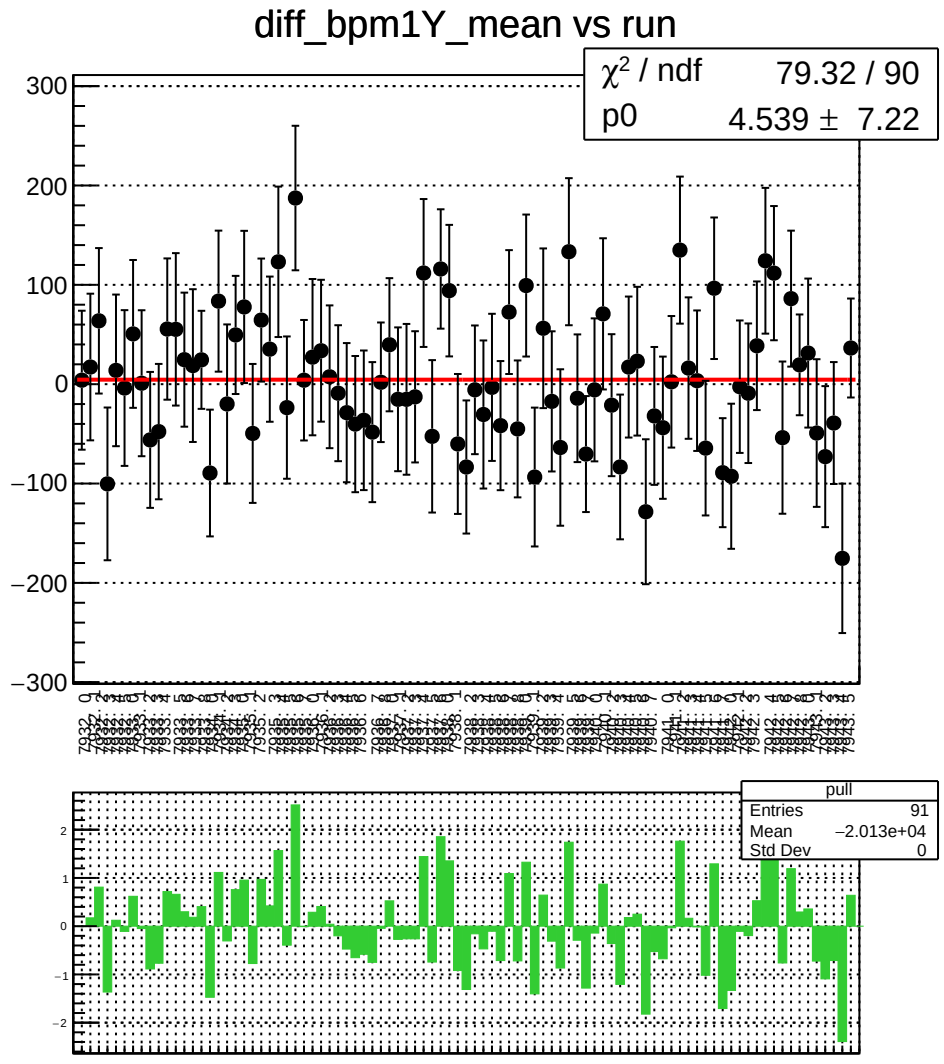

pull1D
Entries 91
Mean 0.00936
Std Dev 0.9877

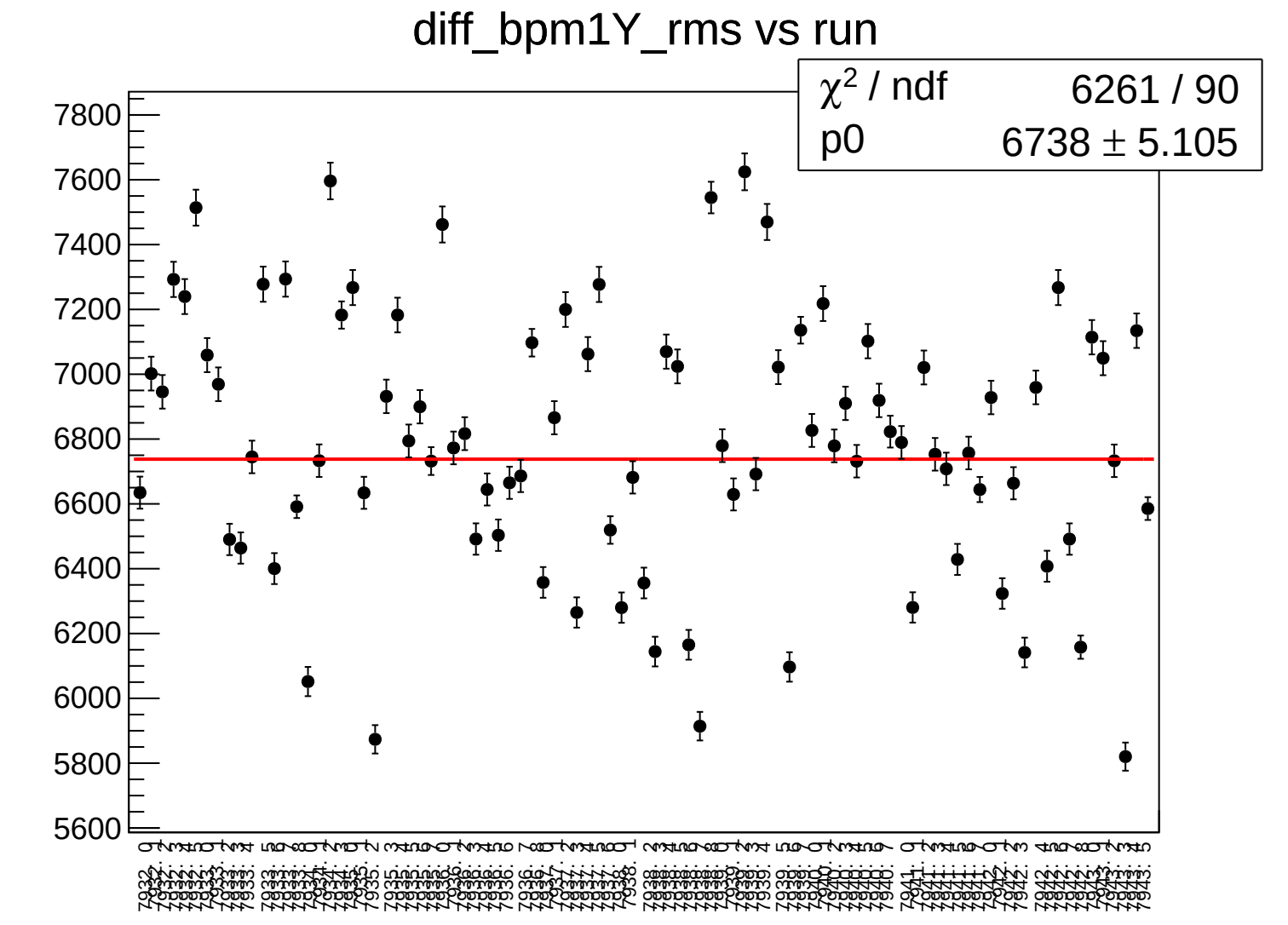

diff_bpm4ecY_rms vs run
χ^2 / ndf 8071 / 90
p0 6047 ± 4.584
7000
6500
6000
5500
5000

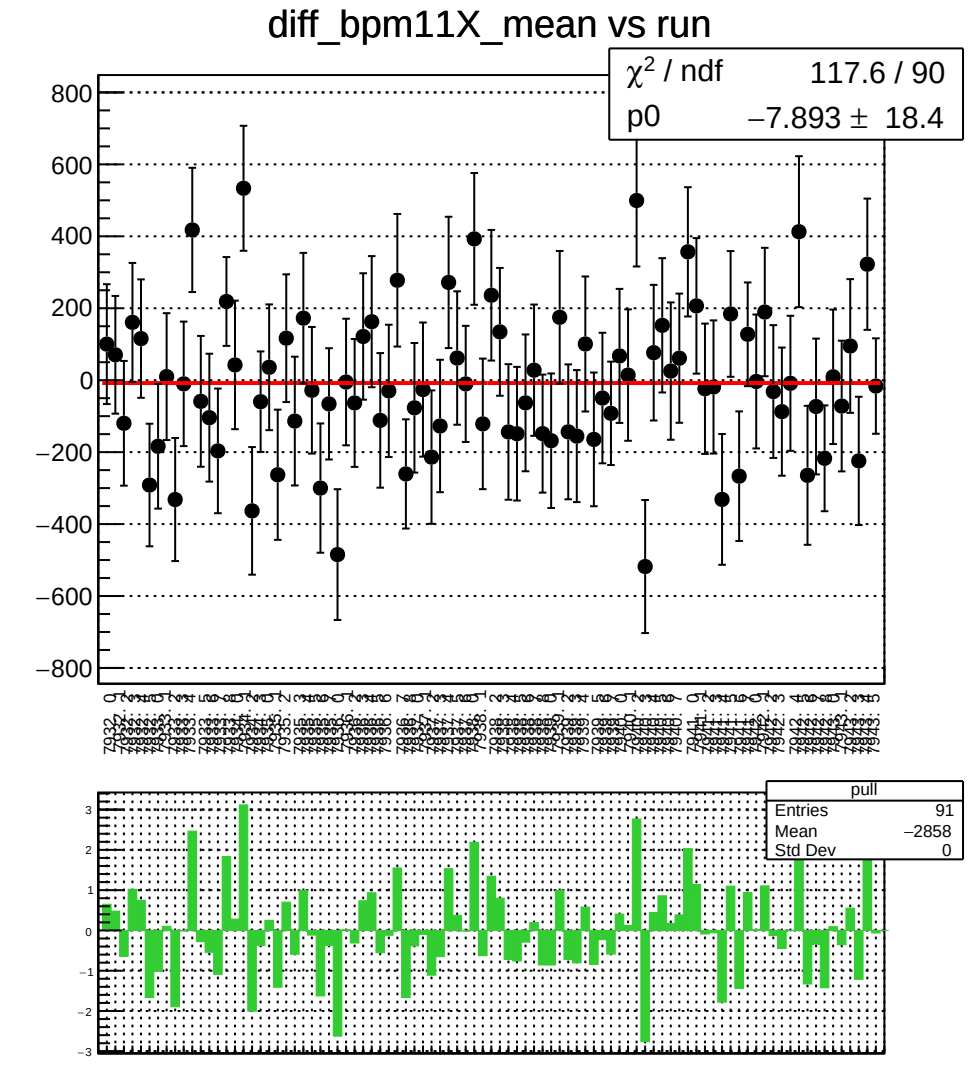

diff_bpm1X_mean vs run
χ² / ndf 113.3 / 90
p0 −8.443 ± 26.76
1000
500
0
−500
−1000
pull
Entries 91
Mean −25.74
Std Dev 0
2
1
0
−1
−2

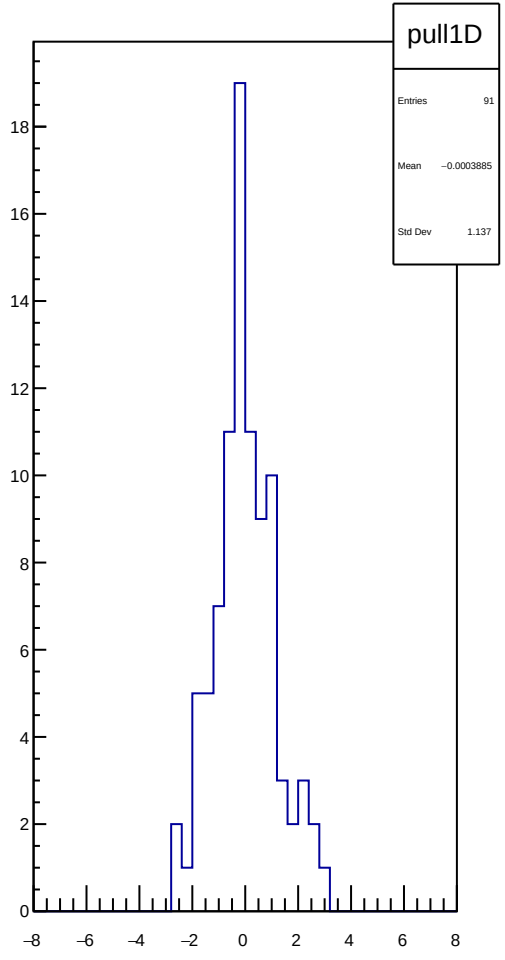

pull1D
Entries 91
Mean 0.01226
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

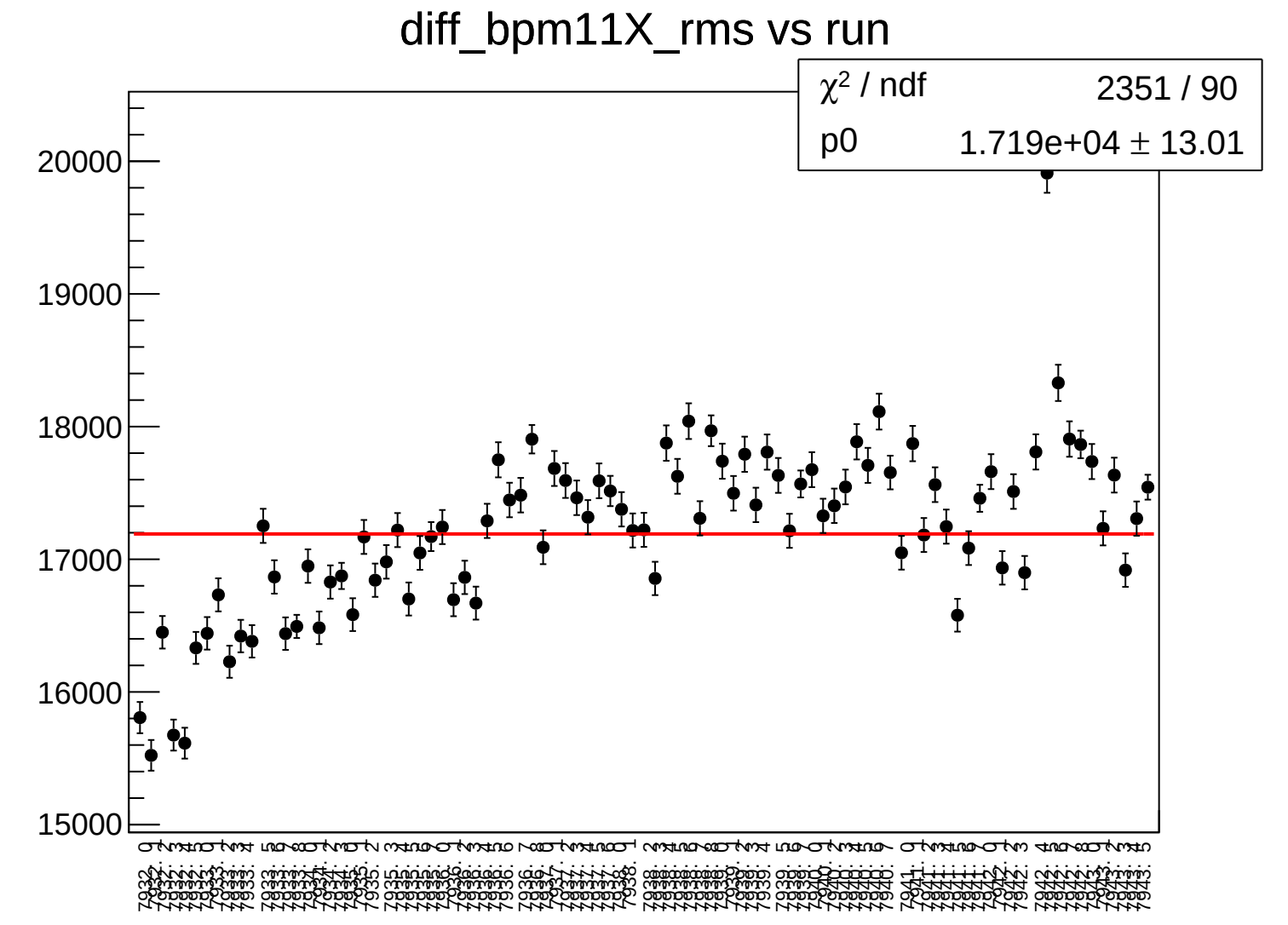

diff_bpm1X_rms vs run
χ² / ndf 2804 / 90
p0 2.5e+04 ± 18.92
28000
27000
26000
25000
24000
23000

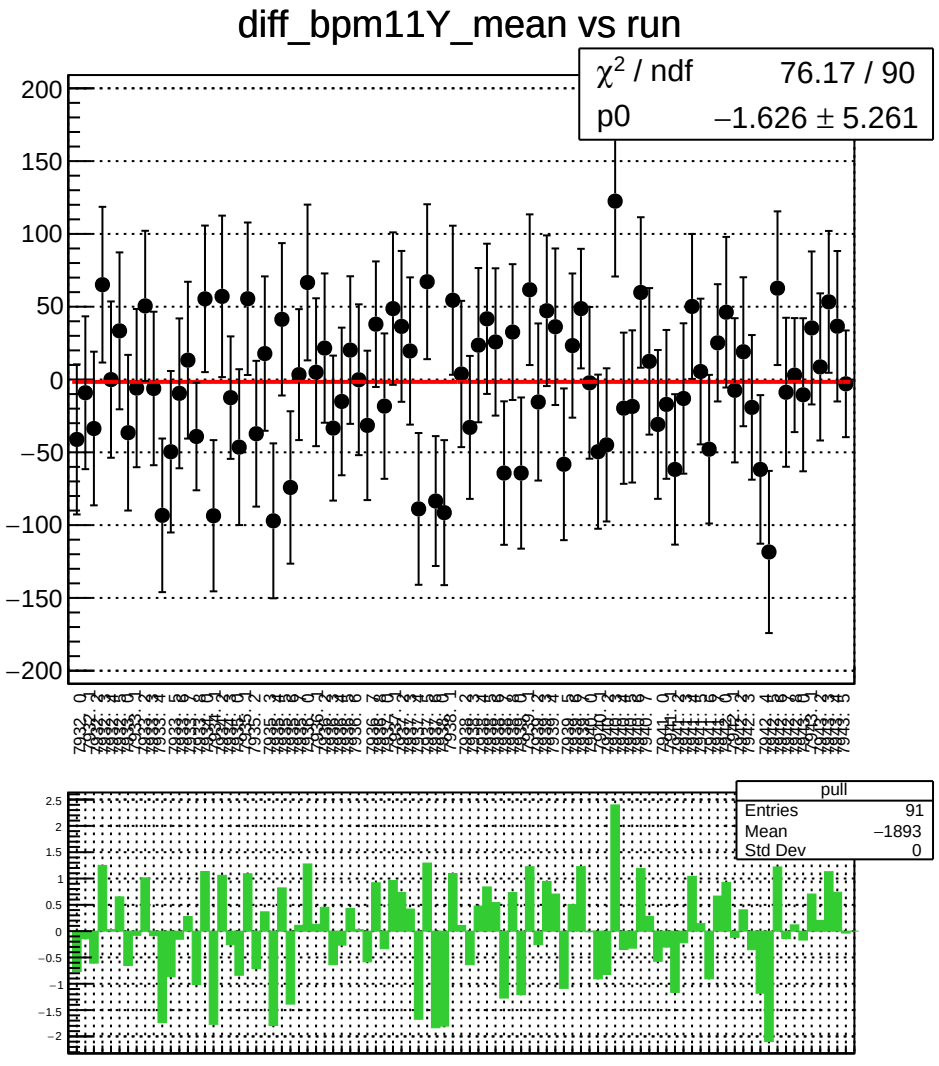

diff_bpm1Y_mean vs run
χ² / ndf 79.32 / 90
p0 4.539 ± 7.22
pull
Entries 91
Mean −2.013e+04
Std Dev 0
pull1D
Entries 91
Mean 0.0001455
Std Dev 0.9336

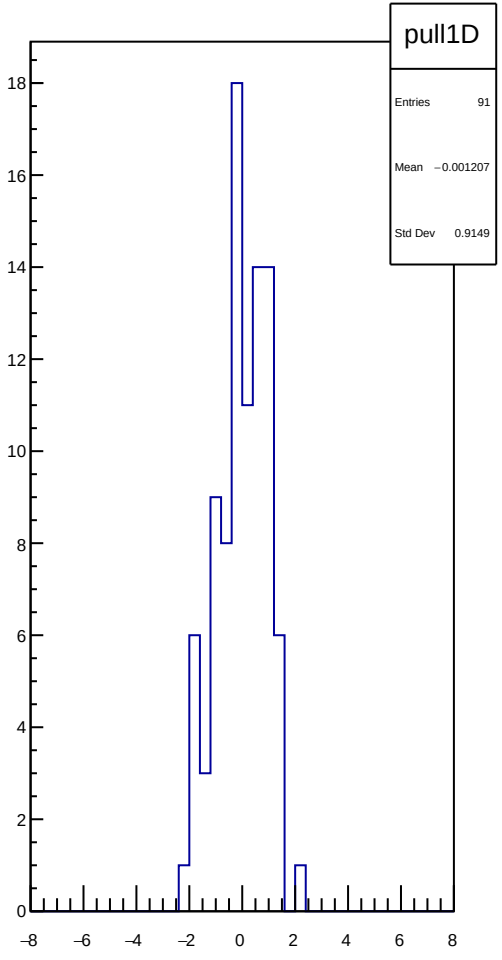

diff_bpm1Y_rms vs run
χ² / ndf 6261 / 90
p0 6738 ± 5.105
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

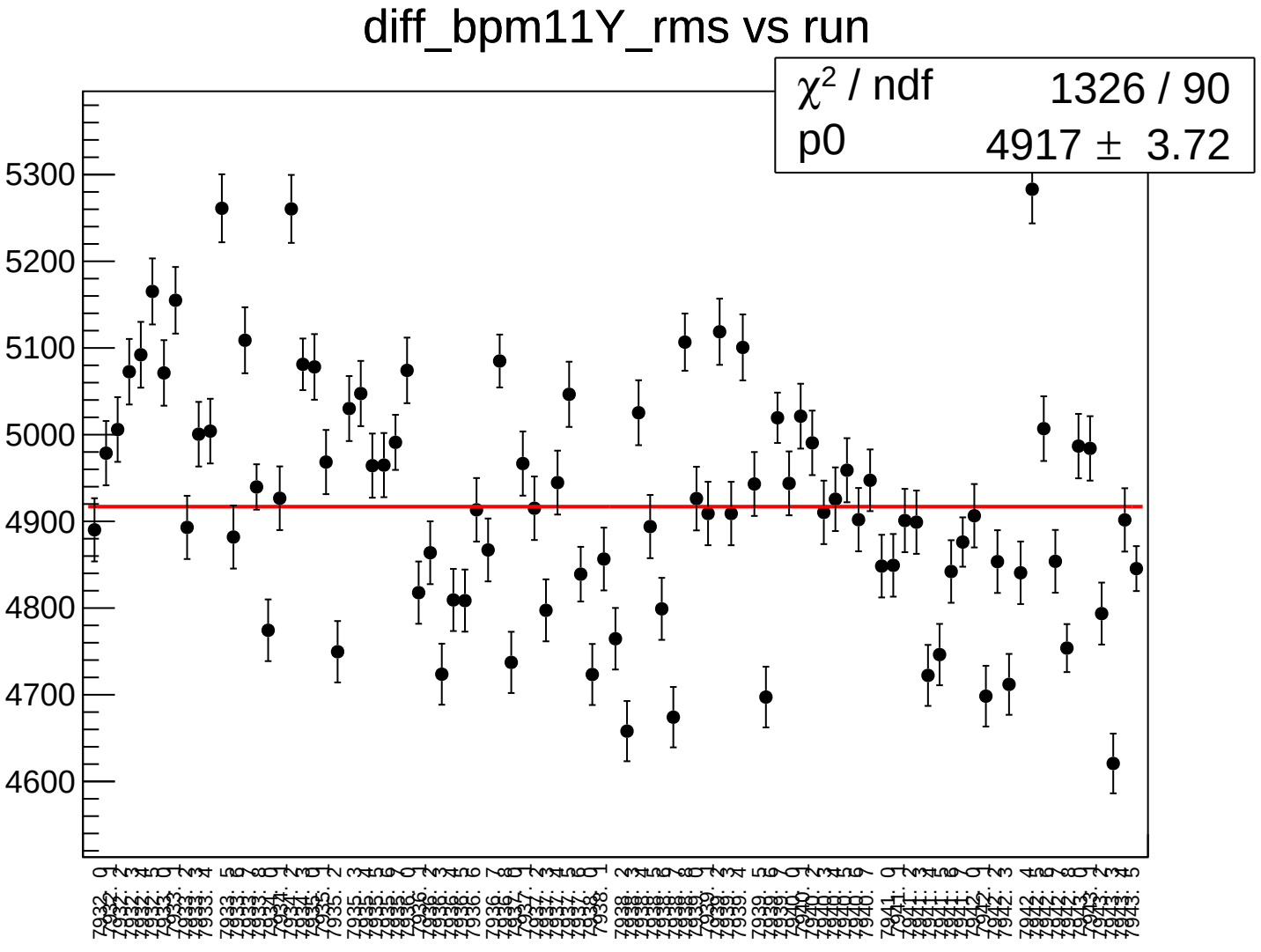

diff_bpm11X_mean vs run
χ² / ndf 117.6 / 90
p0 −7.893 ± 18.4
pull
Entries 91
Mean −2858
Std Dev 0

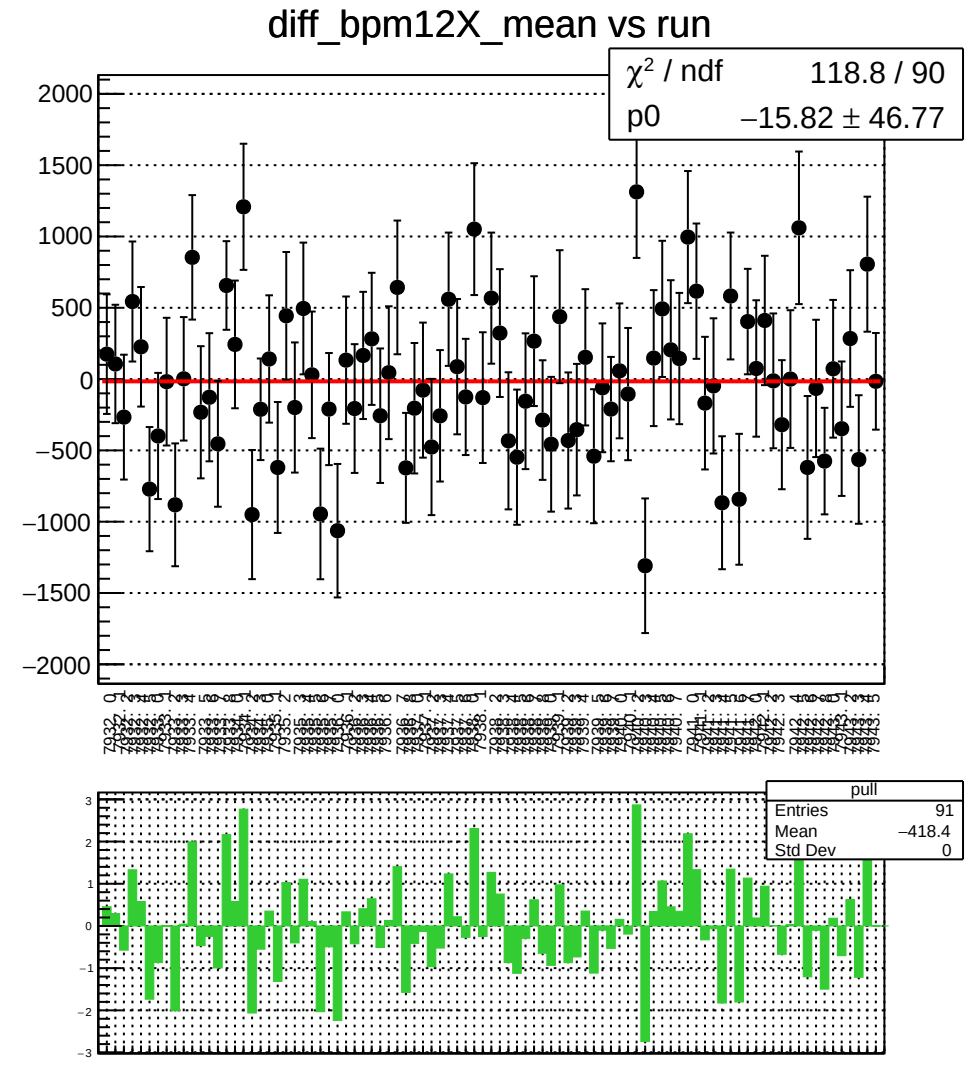

pull1D
Entries 91
Mean −0.0003885
Std Dev 1.137

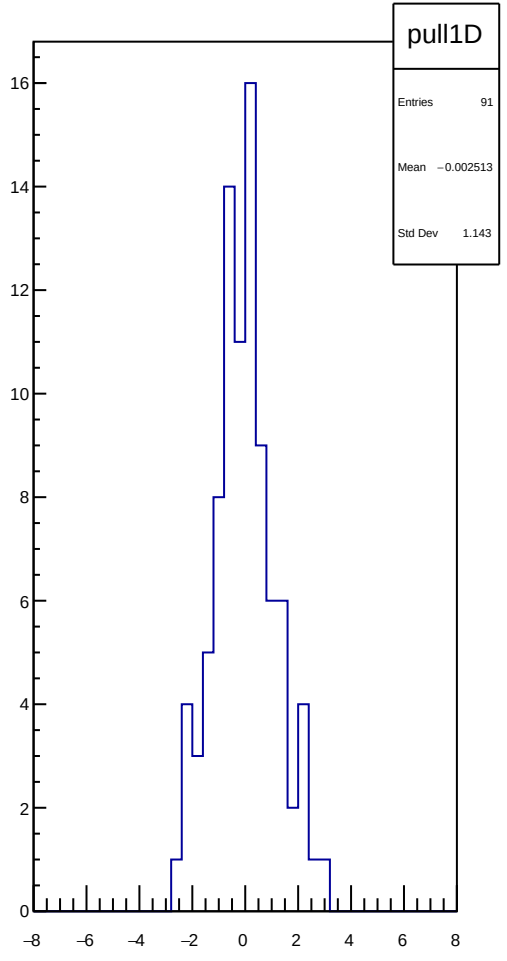

diff_bpm11X_rms vs run
χ² / ndf 2351 / 90
p0 1.719e+04 ± 13.01
20000
19000
18000
17000
16000
15000

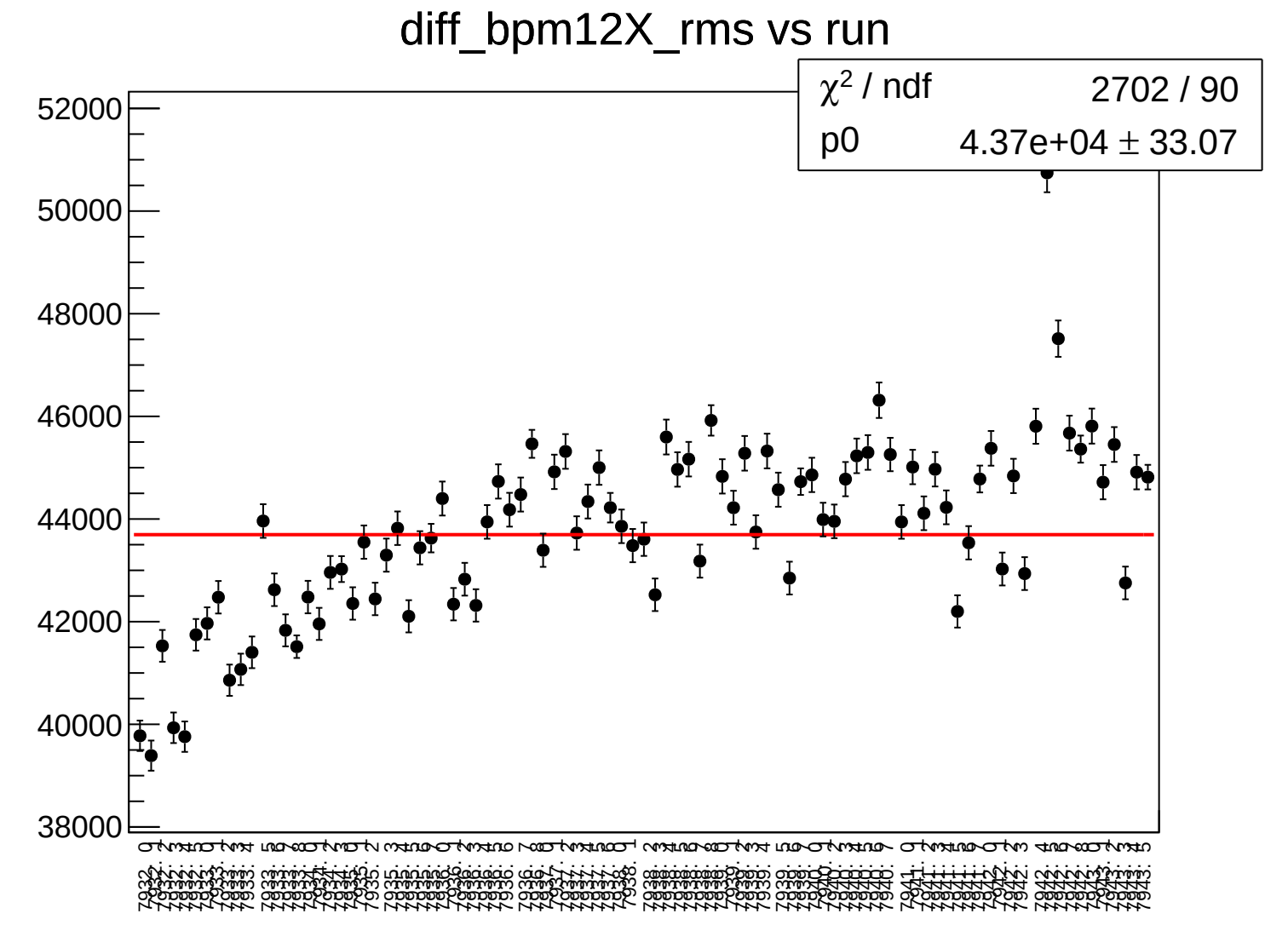

diff_bpm11Y_mean vs run
χ² / ndf 76.17 / 90
p0 −1.626 ± 5.261
pull
Entries 91
Mean −1893
Std Dev 0

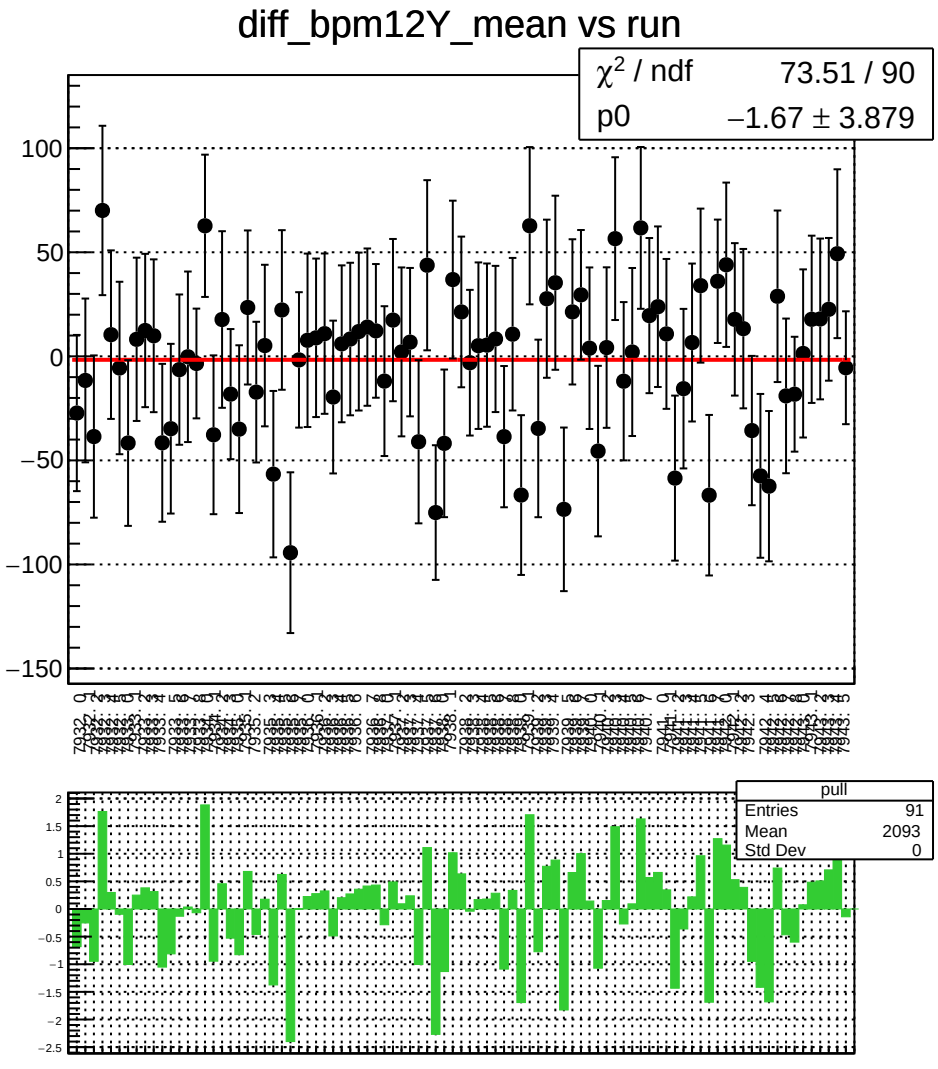

pull1D
Entries 91
Mean −0.001207
Std Dev 0.9149

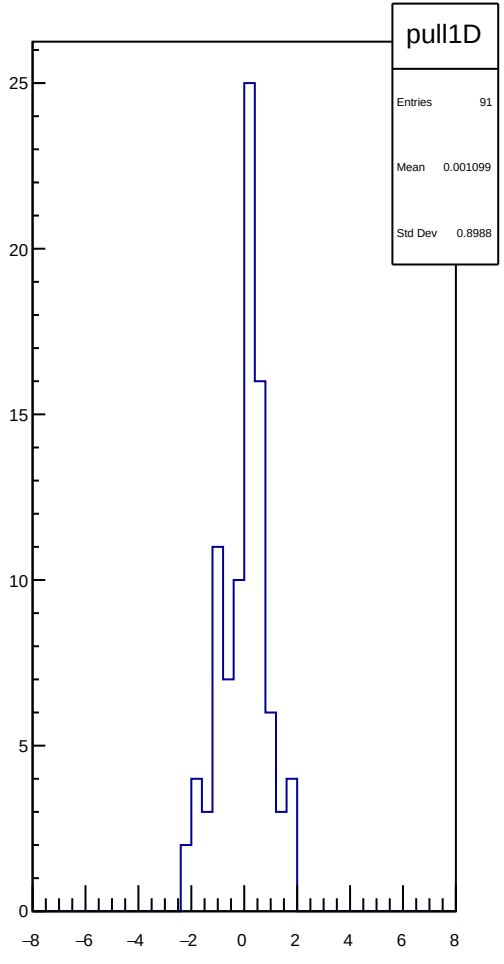

diff_bpm11Y_rms vs run
χ² / ndf 1326 / 90
p0 4917 ± 3.72
5300
5200
5100
5000
4900
4800
4700
4600

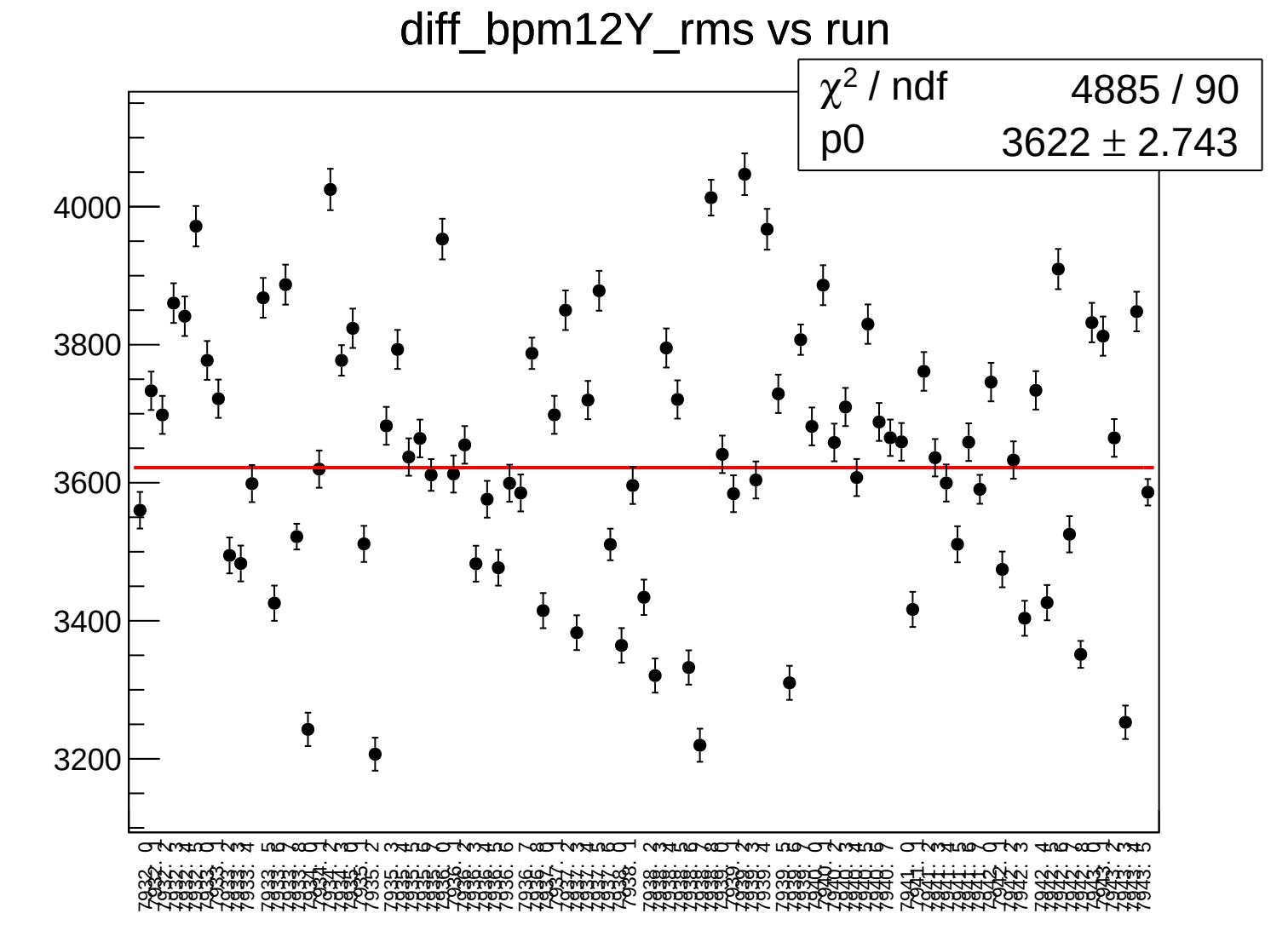

diff_bpm12X_mean vs run
χ² / ndf 118.8 / 90
p0 −15.82 ± 46.77
pull
Entries 91
Mean −418.4
Std Dev 0

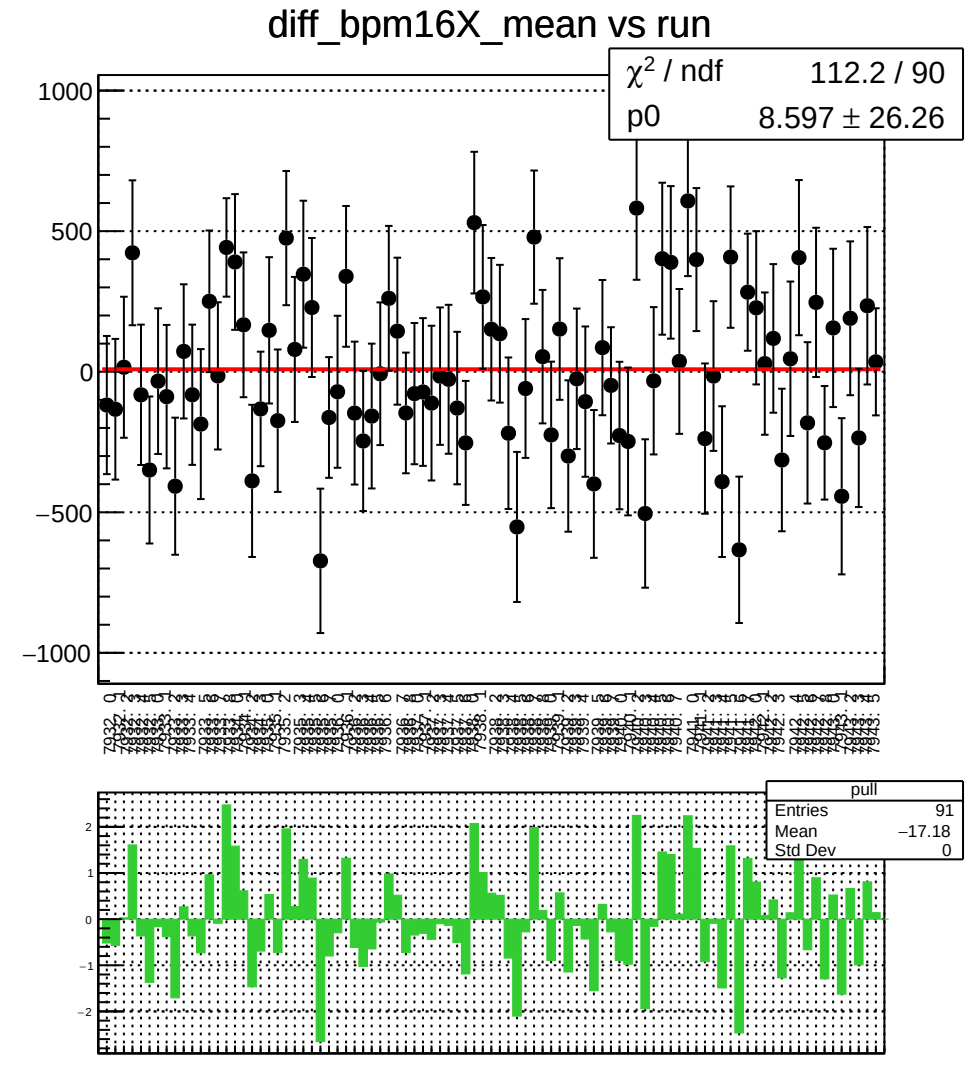

pull1D
Entries 91
Mean −0.002513
Std Dev 1.143

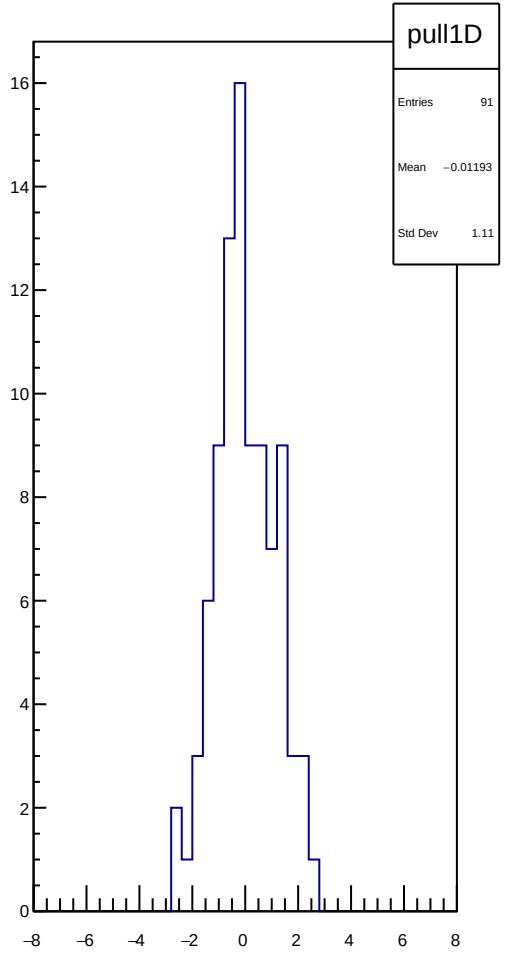

diff_bpm12X_rms vs run
χ² / ndf 2702 / 90
p0 4.37e+04 ± 33.07
52000
50000
48000
46000
44000
42000
40000
38000

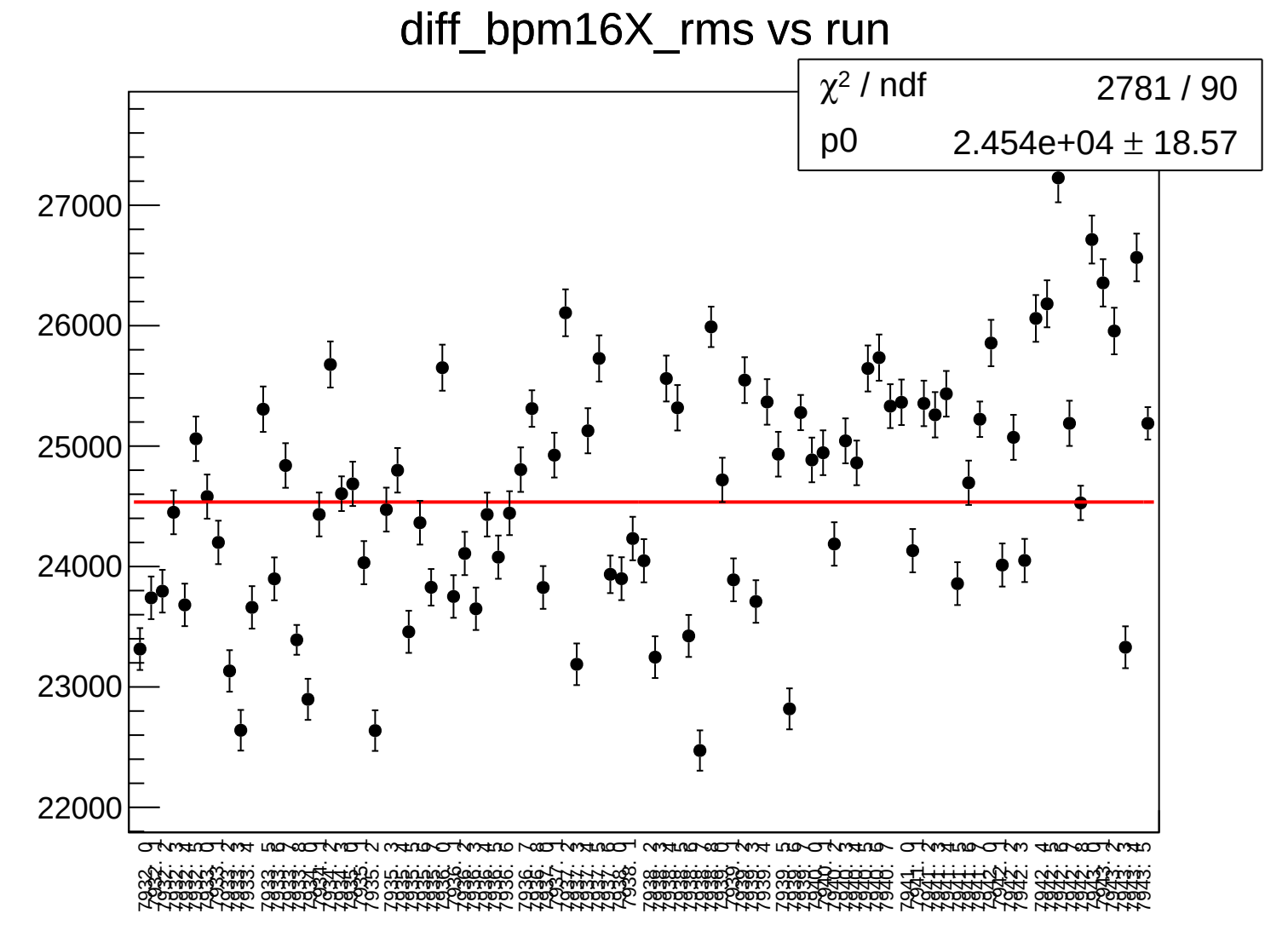

diff_bpm12Y_mean vs run
χ² / ndf 73.51 / 90
p0 −1.67 ± 3.879
pull
Entries 91
Mean 2093
Std Dev 0

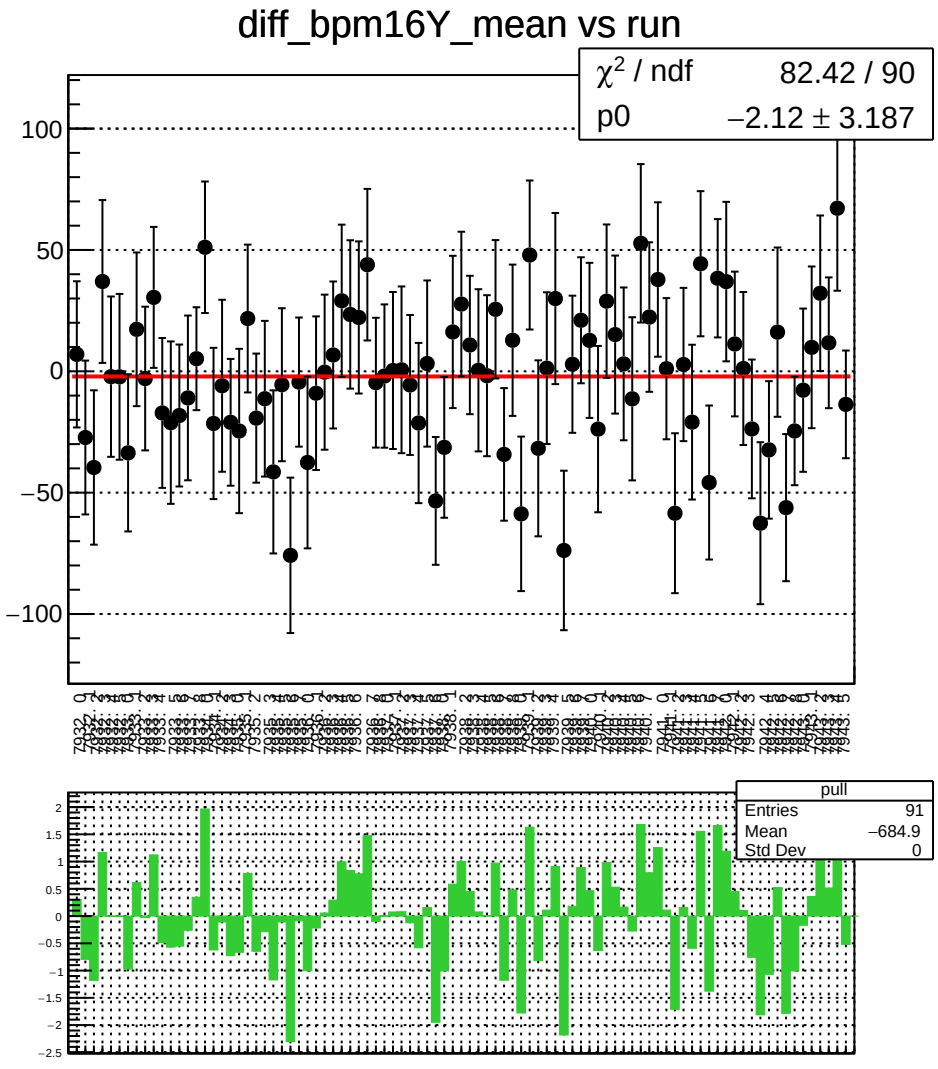

pull1D
Entries 91
Mean 0.001099
Std Dev 0.8988

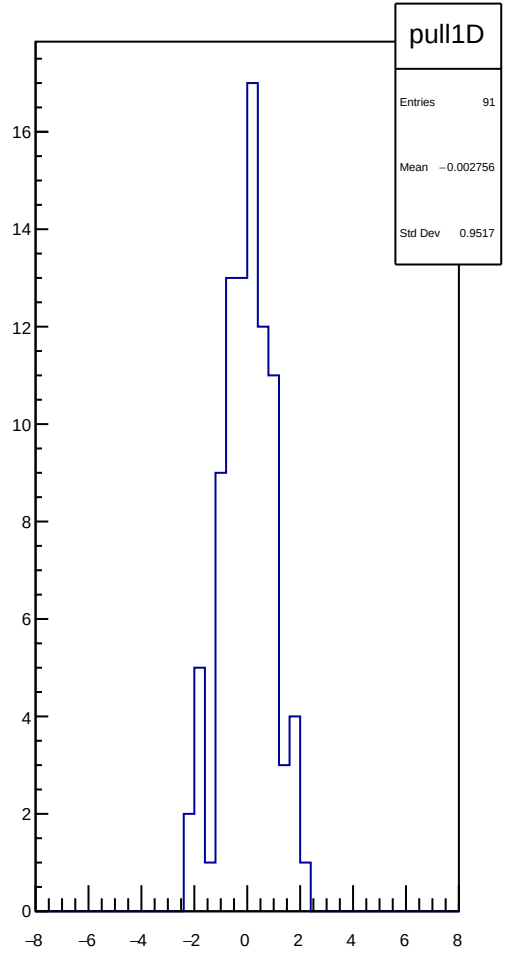

diff_bpm12Y_rms vs run
χ² / ndf 4885 / 90
p0 3622 ± 2.743
4000
3800
3600
3400
3200

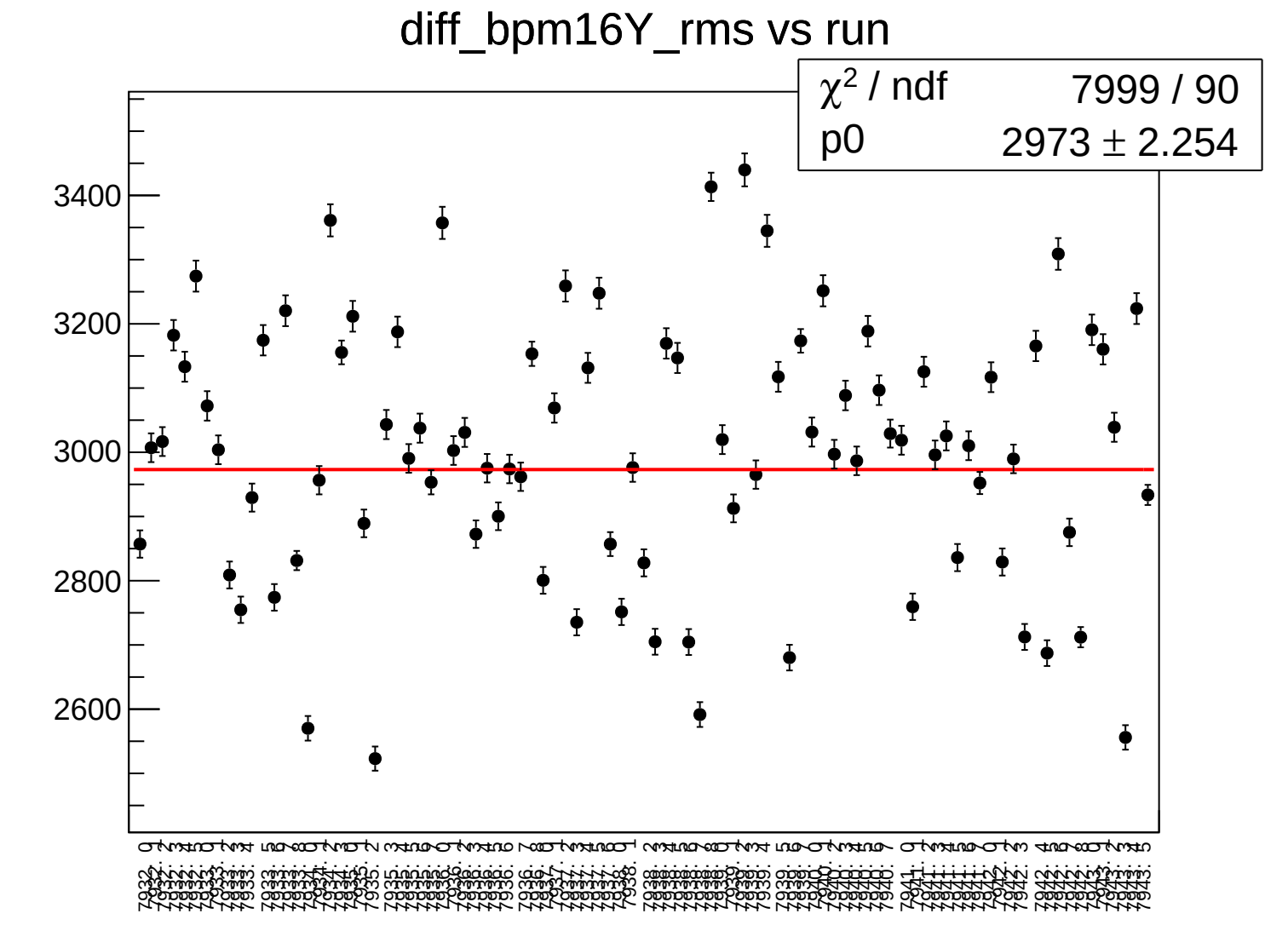

diff_bpm16X_mean vs run
χ² / ndf 112.2 / 90
p0 8.597 ± 26.26
1000
500
0
−500
−1000
pull
Entries 91
Mean −17.18
Std Dev 0
2
1
0
−1
−2

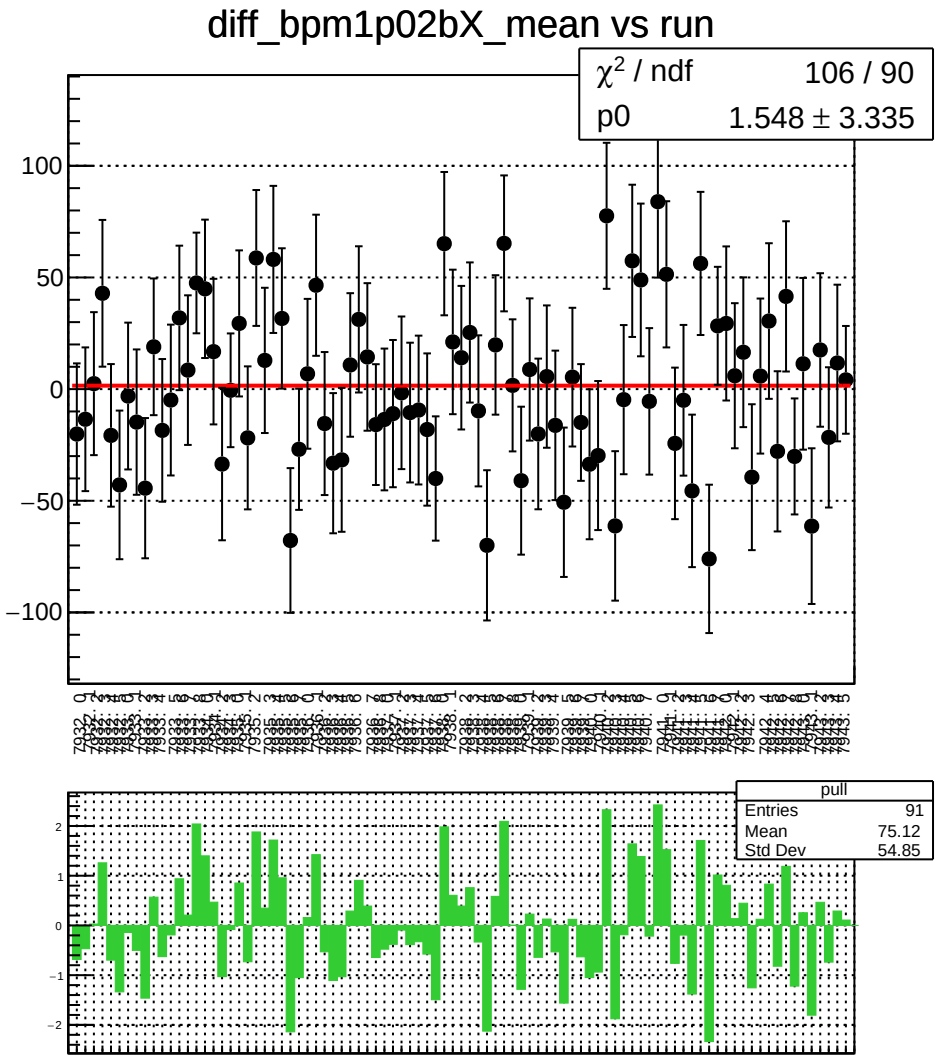

pull1D
Entries 91
Mean −0.01193
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

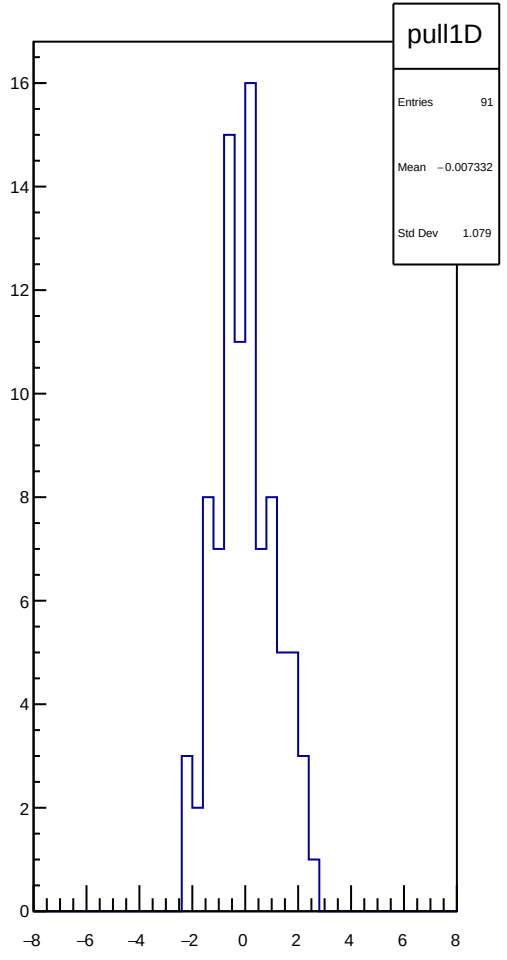

diff_bpm16X_rms vs run
χ² / ndf 2781 / 90
p0 2.454e+04 ± 18.57
27000
26000
25000
24000
23000
22000

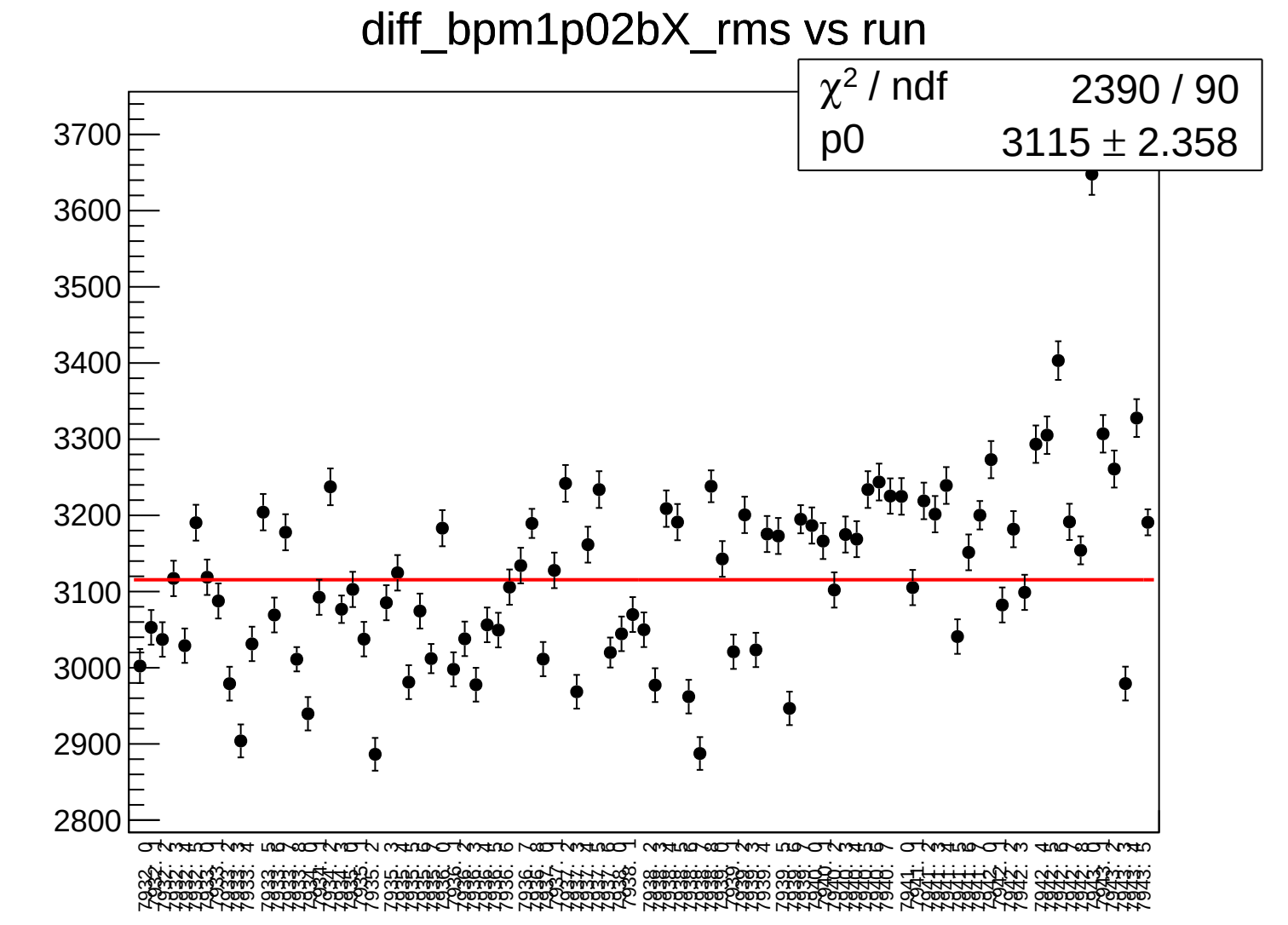

diff_bpm16Y_mean vs run
χ^2 / ndf 82.42 / 90
p0 −2.12 ± 3.187
100
50
0
−50
−100
pull
Entries 91
Mean −684.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

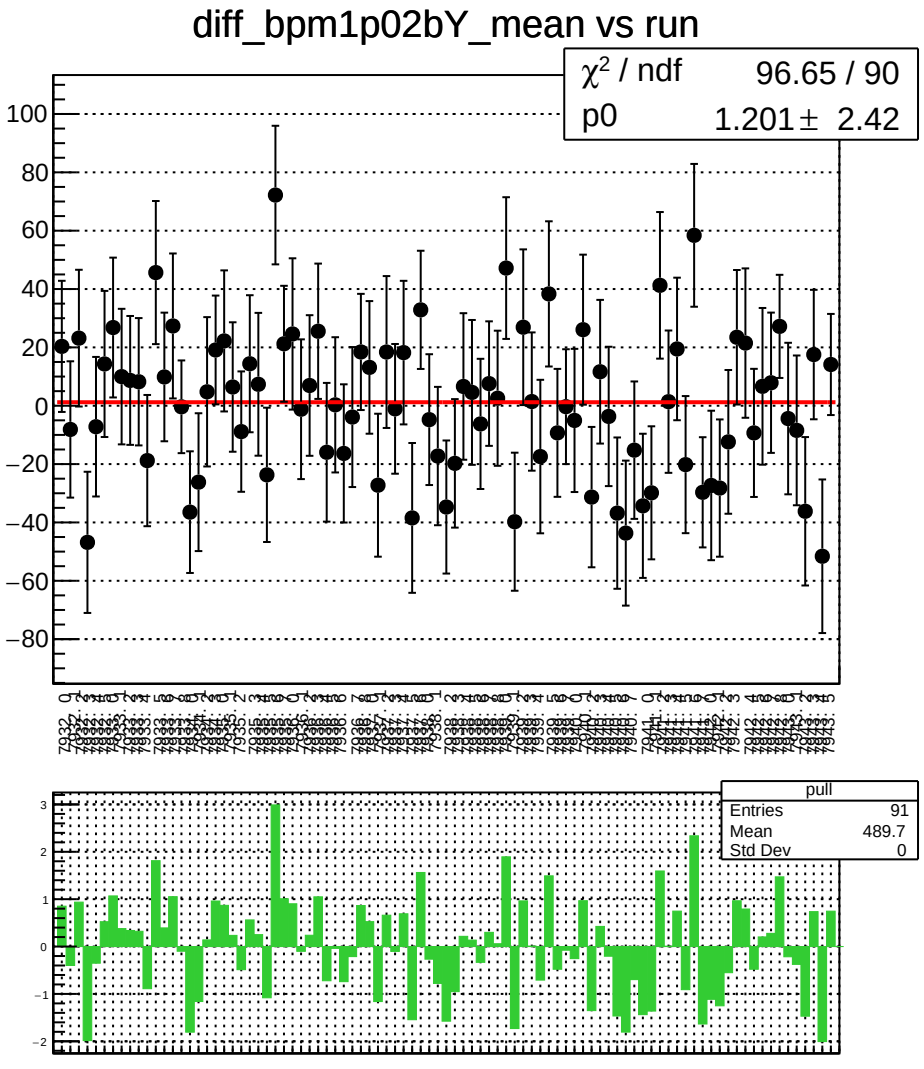

pull1D
Entries 91
Mean −0.002756
Std Dev 0.9517
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

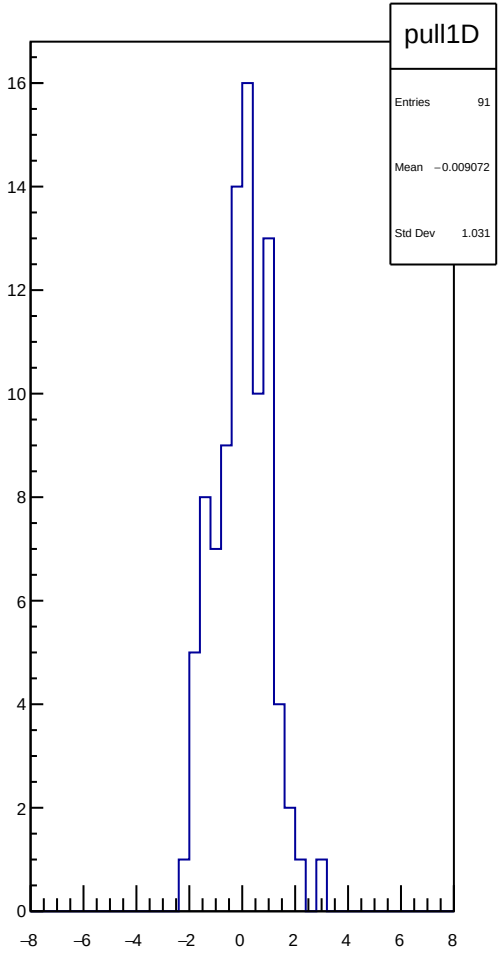

diff_bpm16Y_rms vs run
χ² / ndf 7999 / 90
p0 2973 ± 2.254
3400
3200
3000
2800
2600

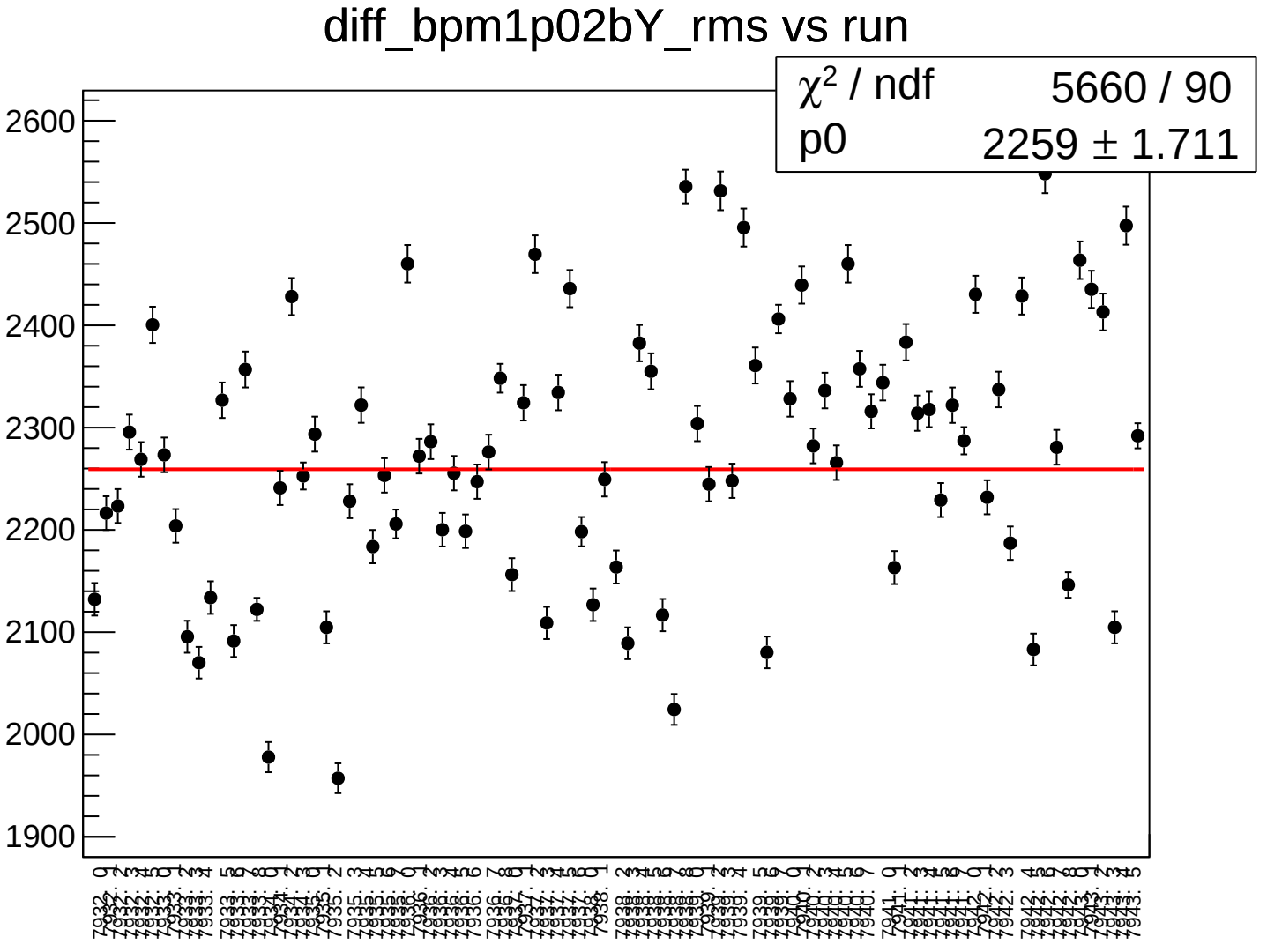

diff_bpm1p02bX_mean vs run
χ² / ndf 106 / 90
p0 1.548 ± 3.335
100
50
0
−50
−100
pull
Entries 91
Mean 75.12
Std Dev 54.85
2
1
0
−1
−2

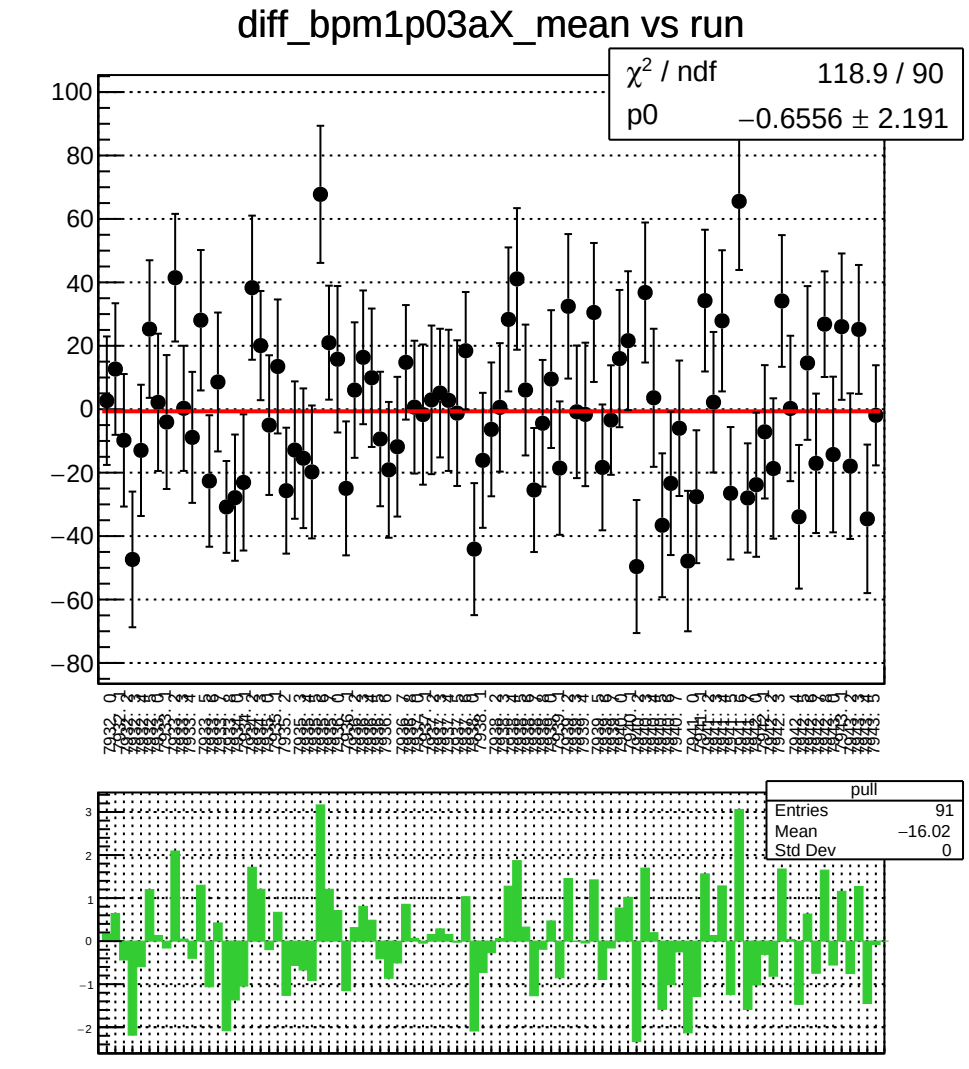

pull1D
Entries 91
Mean −0.007332
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

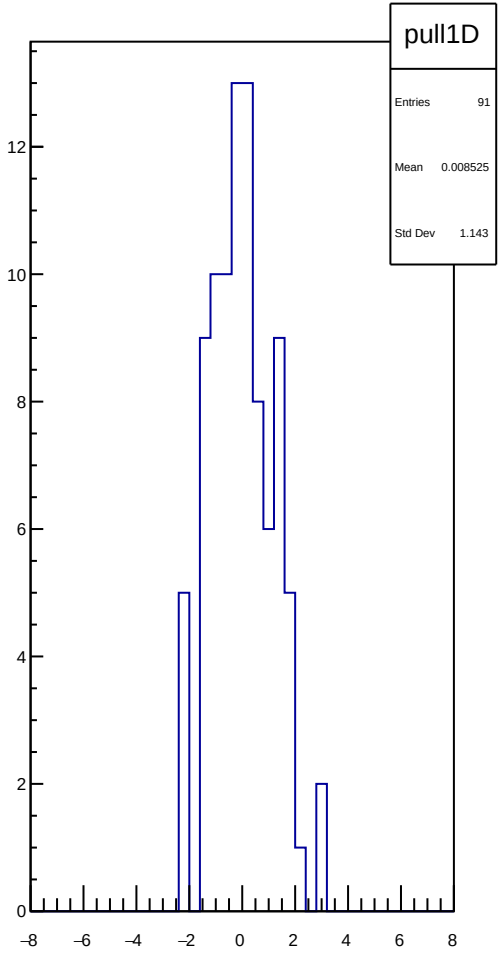

diff_bpm1p02bX_rms vs run
χ² / ndf 2390 / 90
p0 3115 ± 2.358
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800

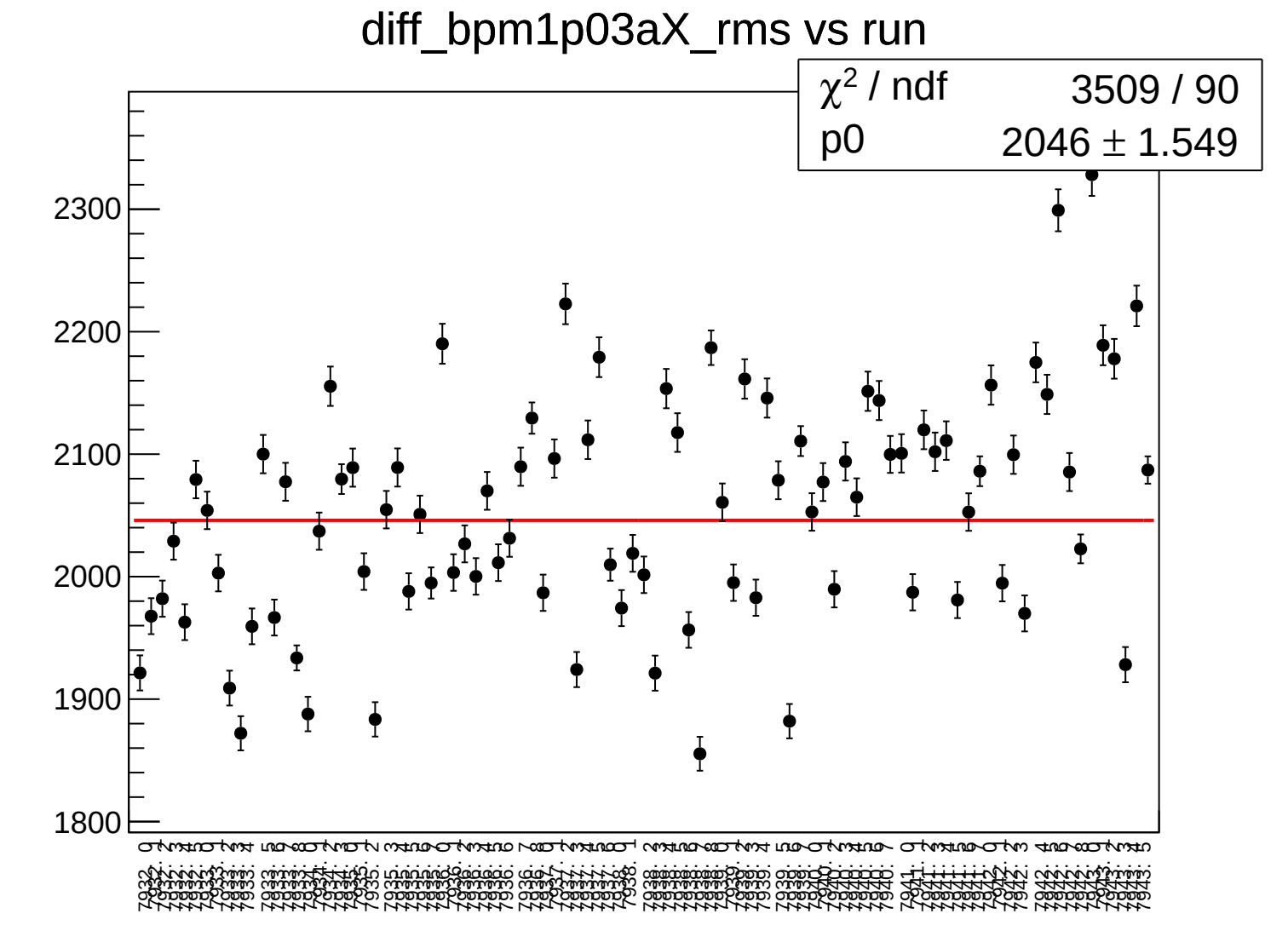

diff_bpm1p02bY_mean vs run
χ² / ndf 96.65 / 90
p0 1.201 ± 2.42
pull
Entries 91
Mean 489.7
Std Dev 0

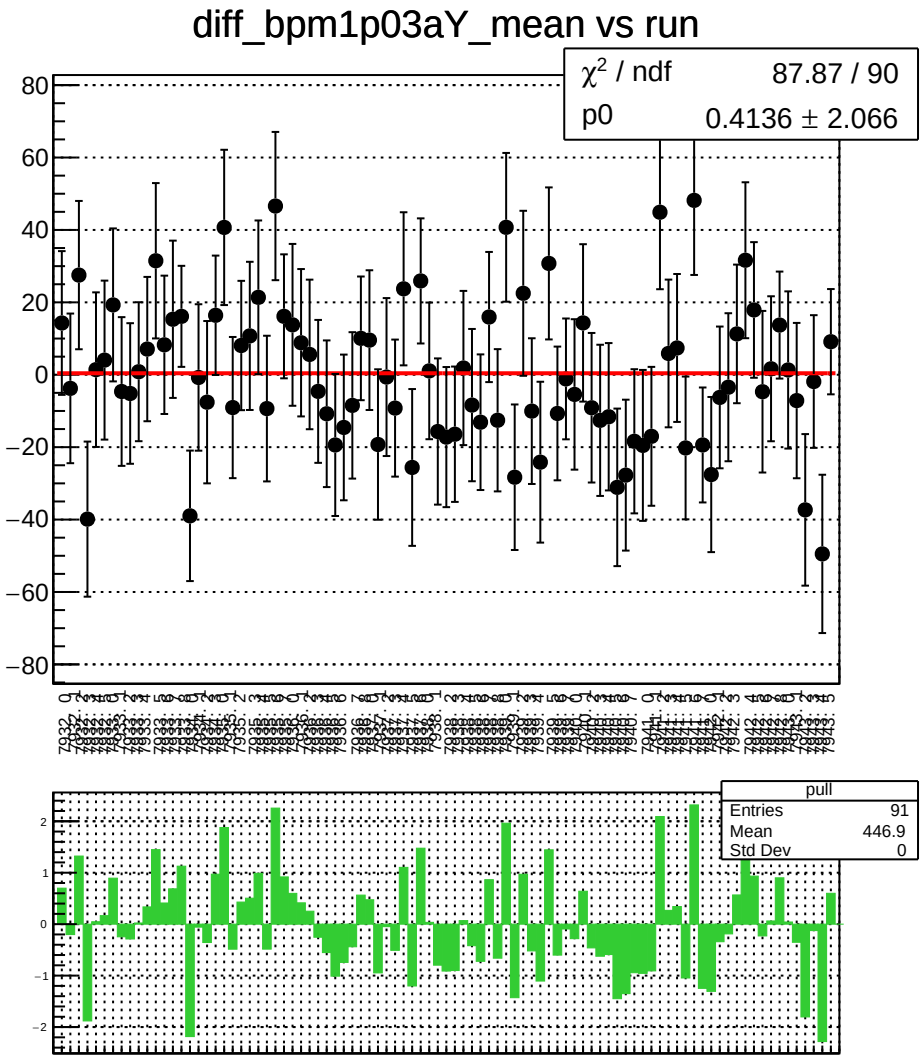

pull1D
Entries 91
Mean −0.009072
Std Dev 1.031

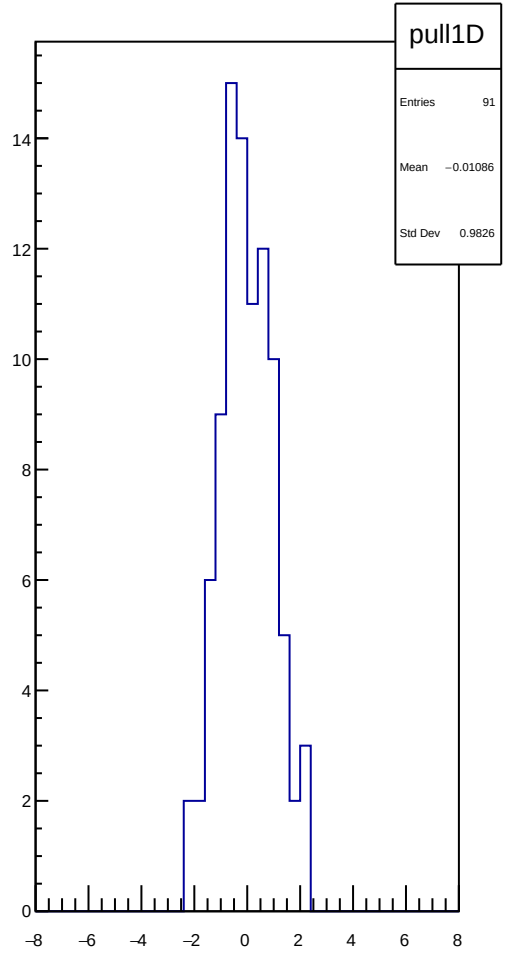

diff_bpm1p02bY_rms vs run
χ² / ndf 5660 / 90
p0 2259 ± 1.711
2600
2500
2400
2300
2200
2100
2000
1900

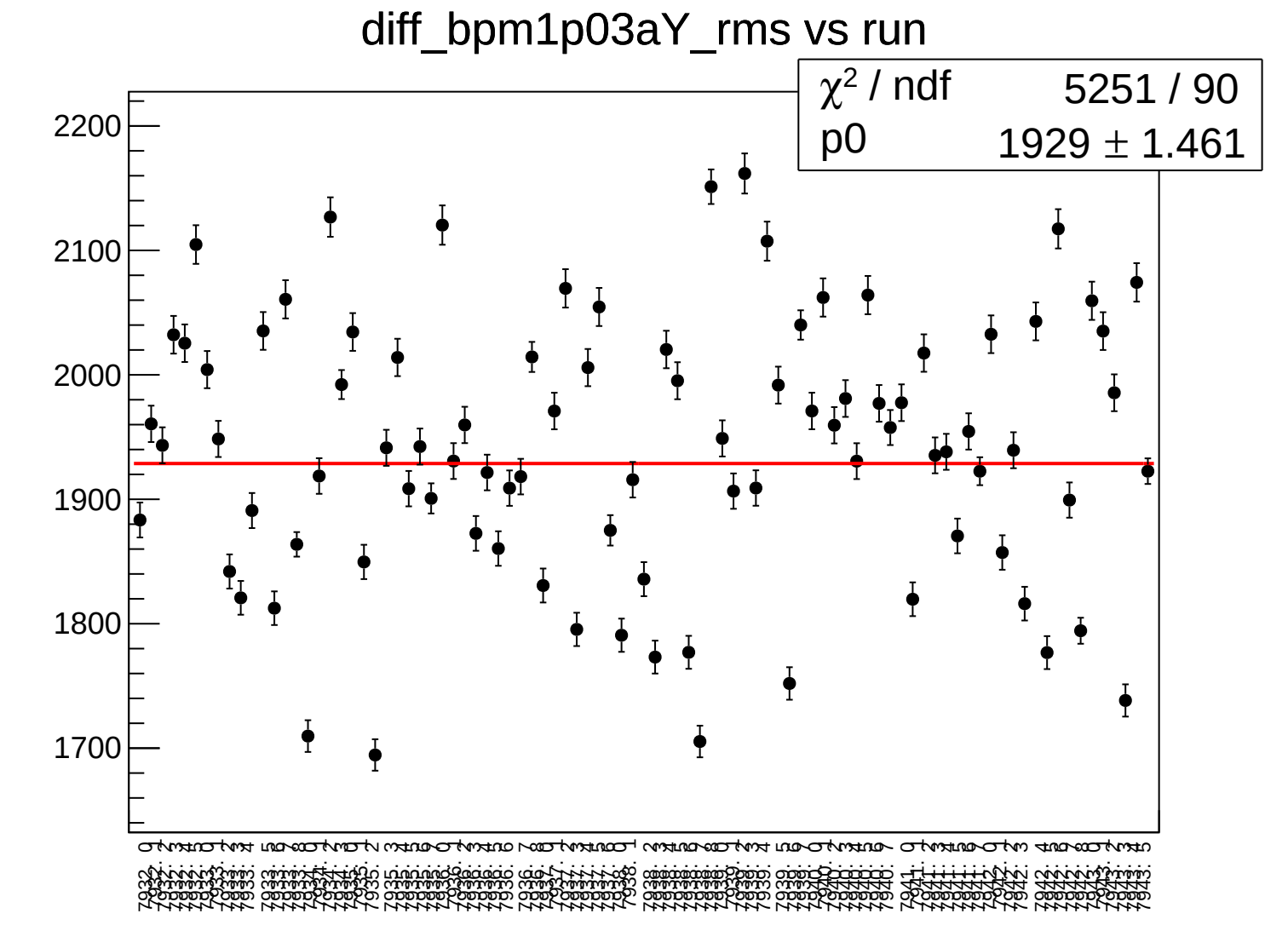

diff_bpm1p03aX_mean vs run
χ² / ndf 118.9 / 90
p0 −0.6556 ± 2.191
pull
Entries 91
Mean −16.02
Std Dev 0

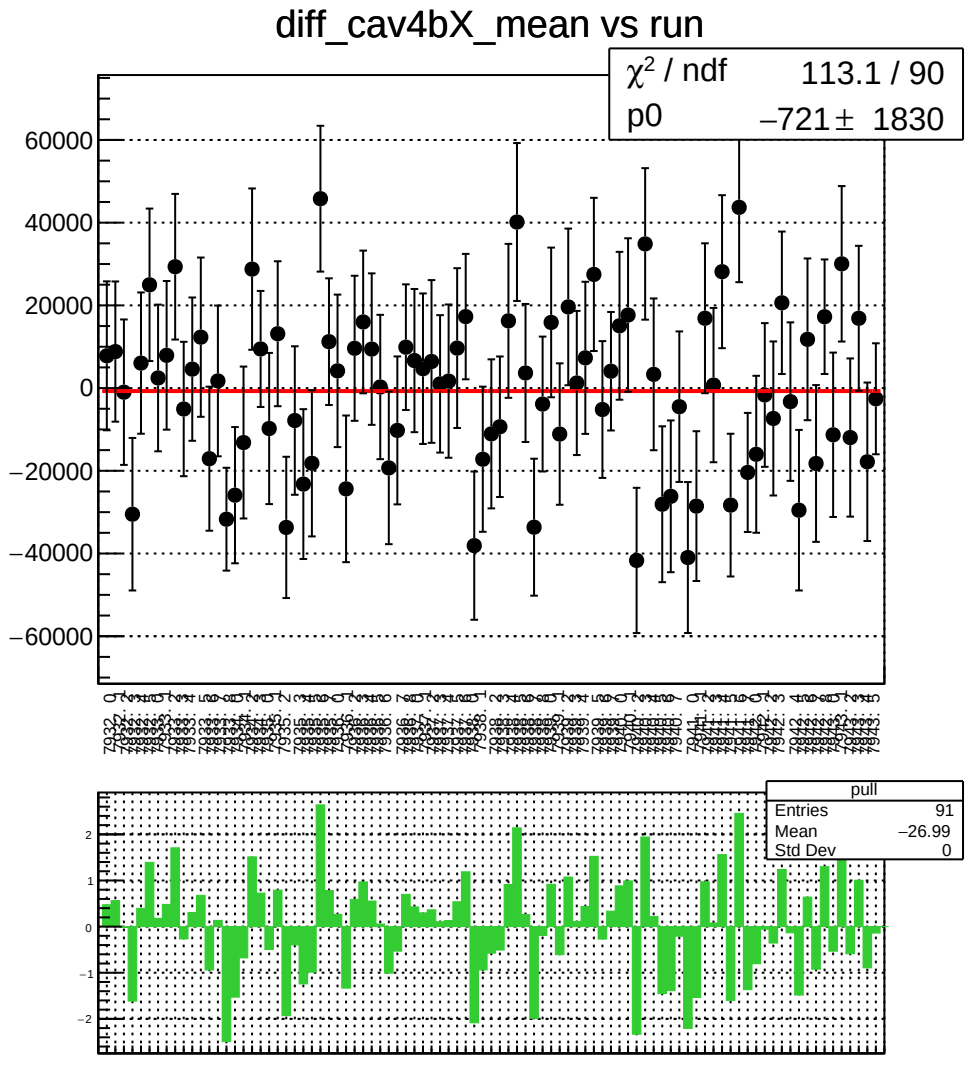

pull1D
Entries 91
Mean 0.008525
Std Dev 1.143

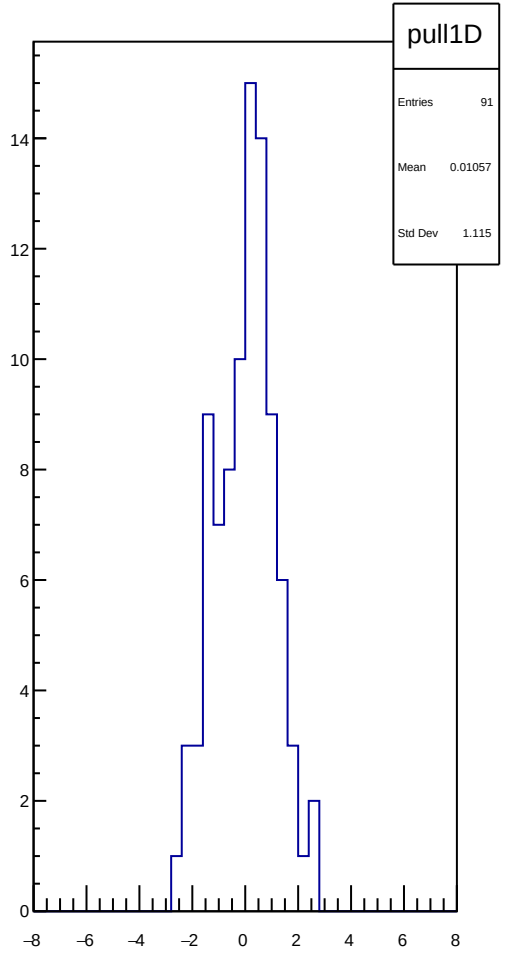

diff_bpm1p03aX_rms vs run
χ² / ndf 3509 / 90
p0 2046 ± 1.549
2300
2200
2100
2000
1900
1800

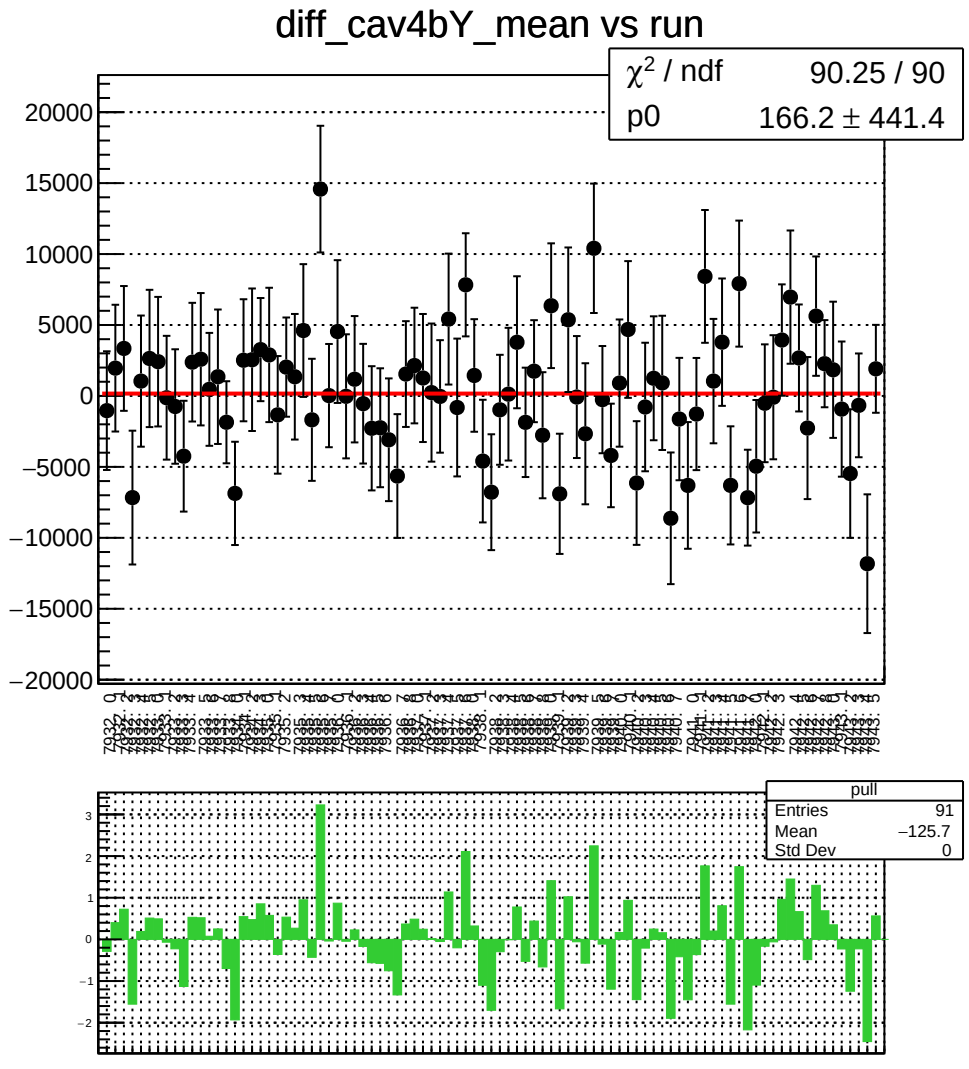

diff_bpm1p03aY_mean vs run
χ² / ndf 87.87 / 90
p0 0.4136 ± 2.066
pull
Entries 91
Mean 446.9
Std Dev 0

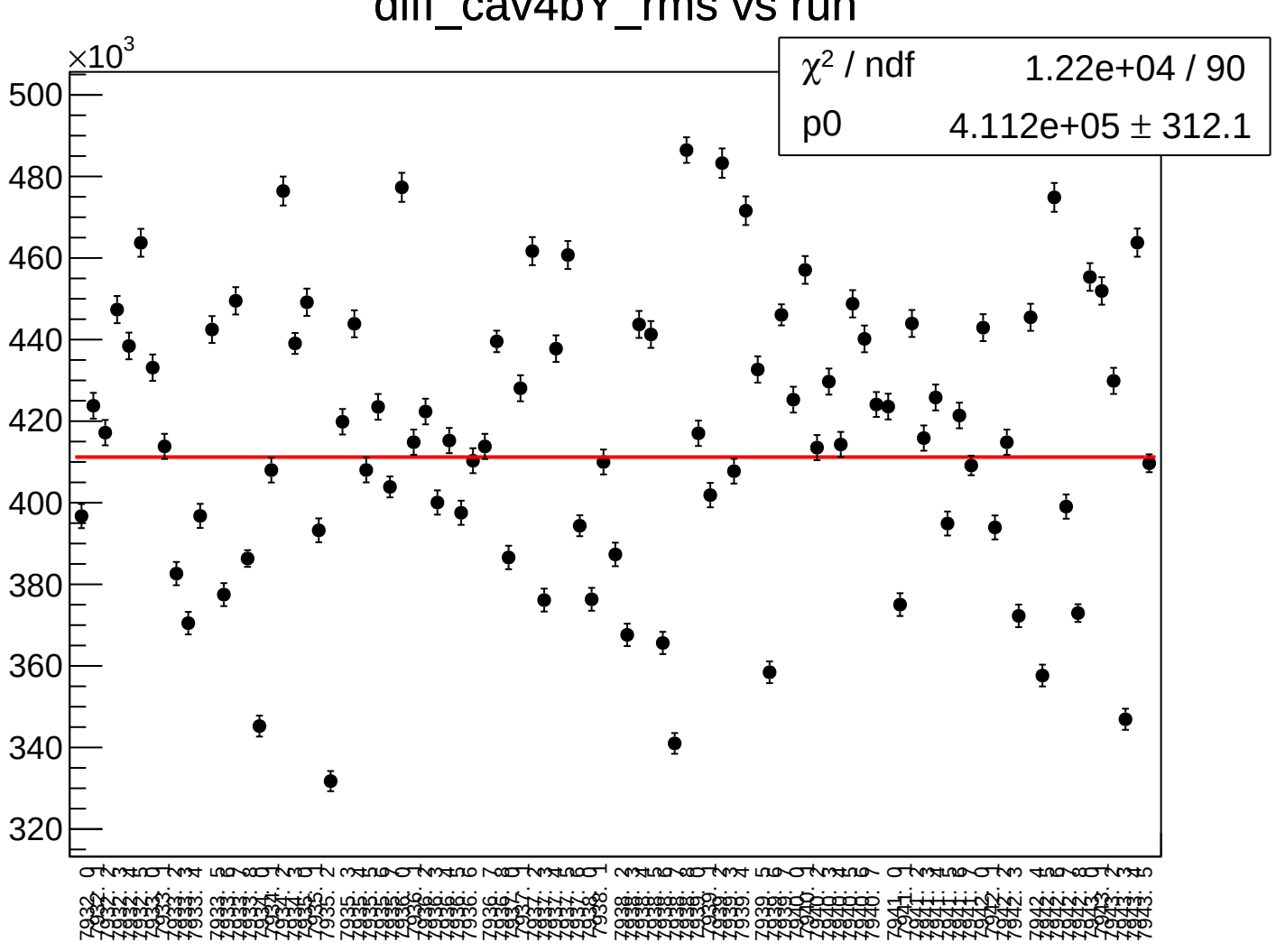

pull1D
Entries 91
Mean −0.01086
Std Dev 0.9826

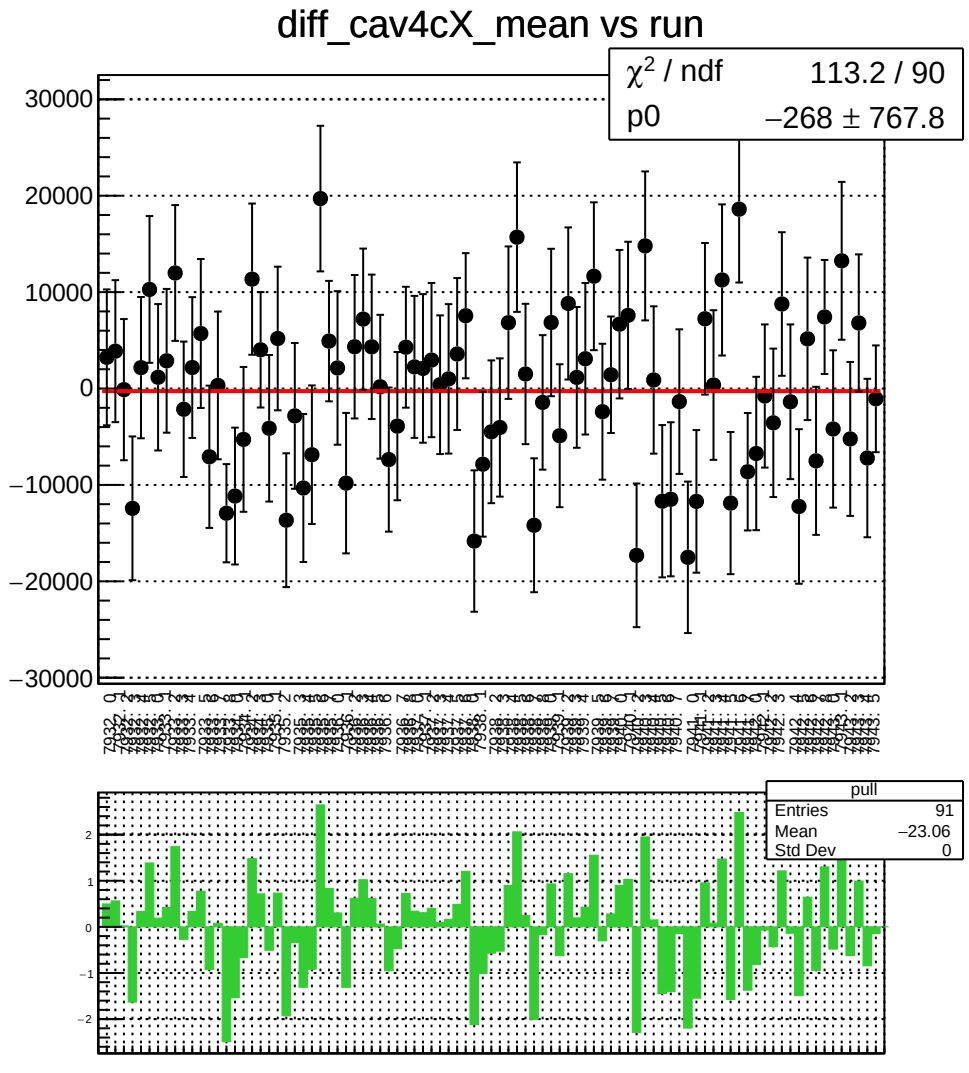

diff_bpm1p03aY_rms vs run
χ² / ndf 5251 / 90
p0 1929 ± 1.461
2200
2100
2000
1900
1800
1700

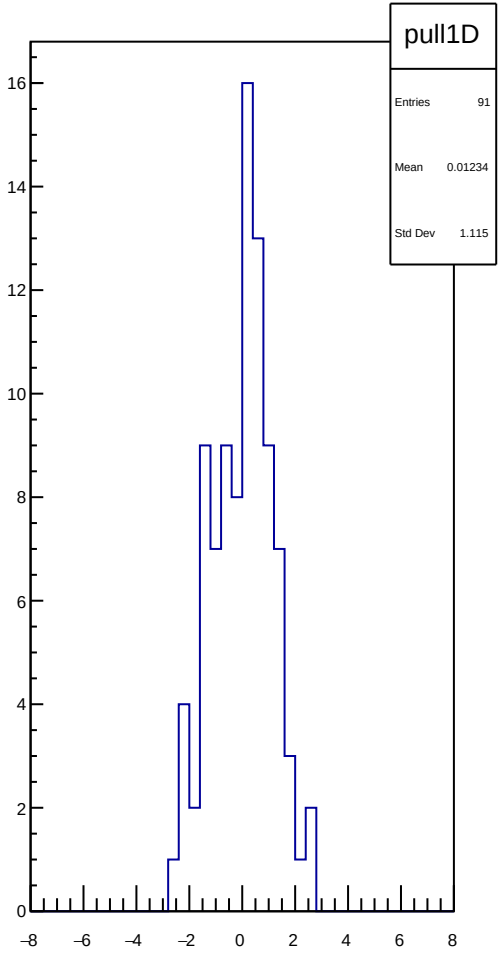

diff_cav4bX_mean vs run
χ² / ndf 113.1 / 90
p0 −721 ± 1830
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −26.99
Std Dev 0
2
1
0
−1
−2

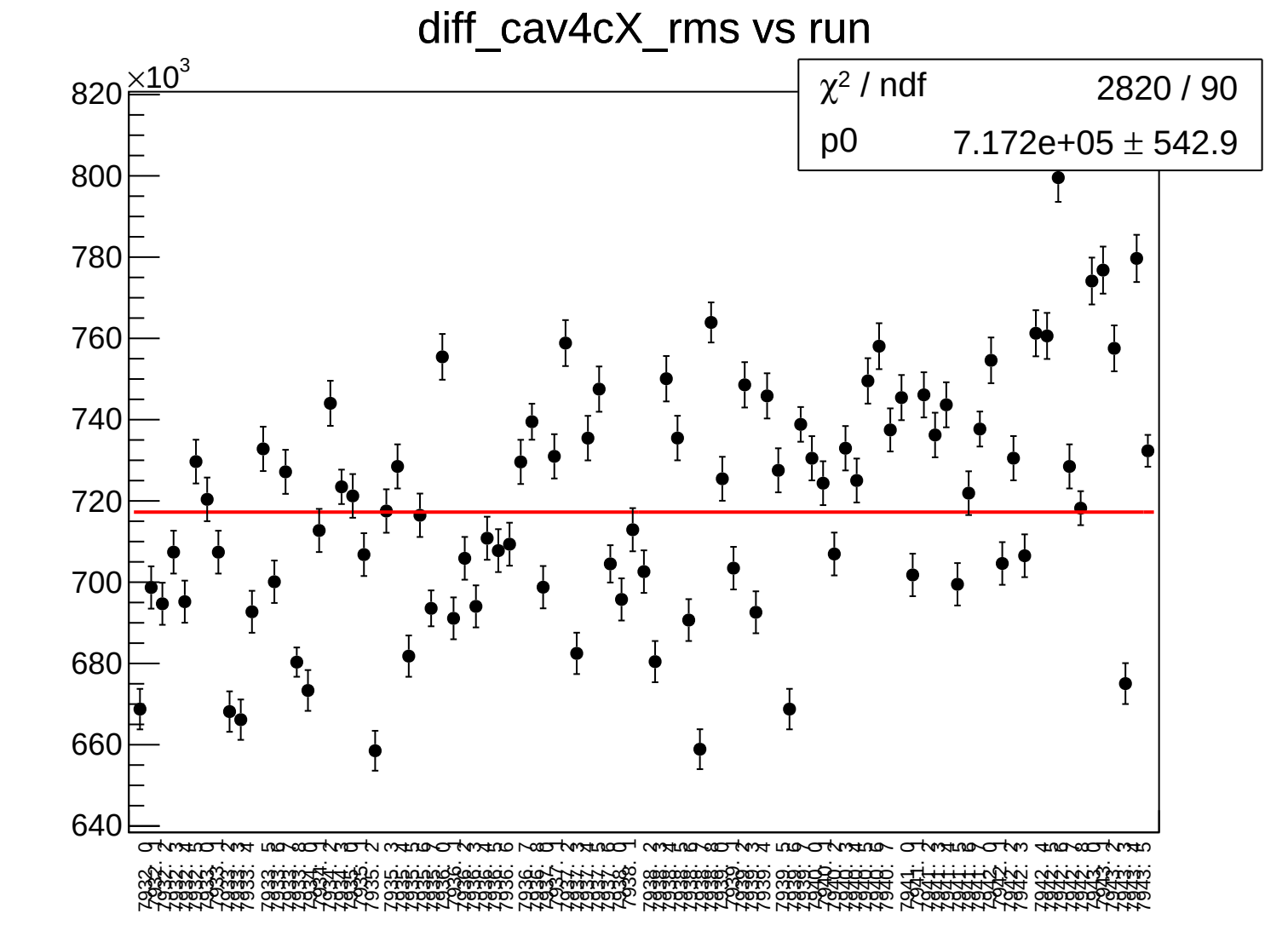

pull1D
Entries 91
Mean 0.01057
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

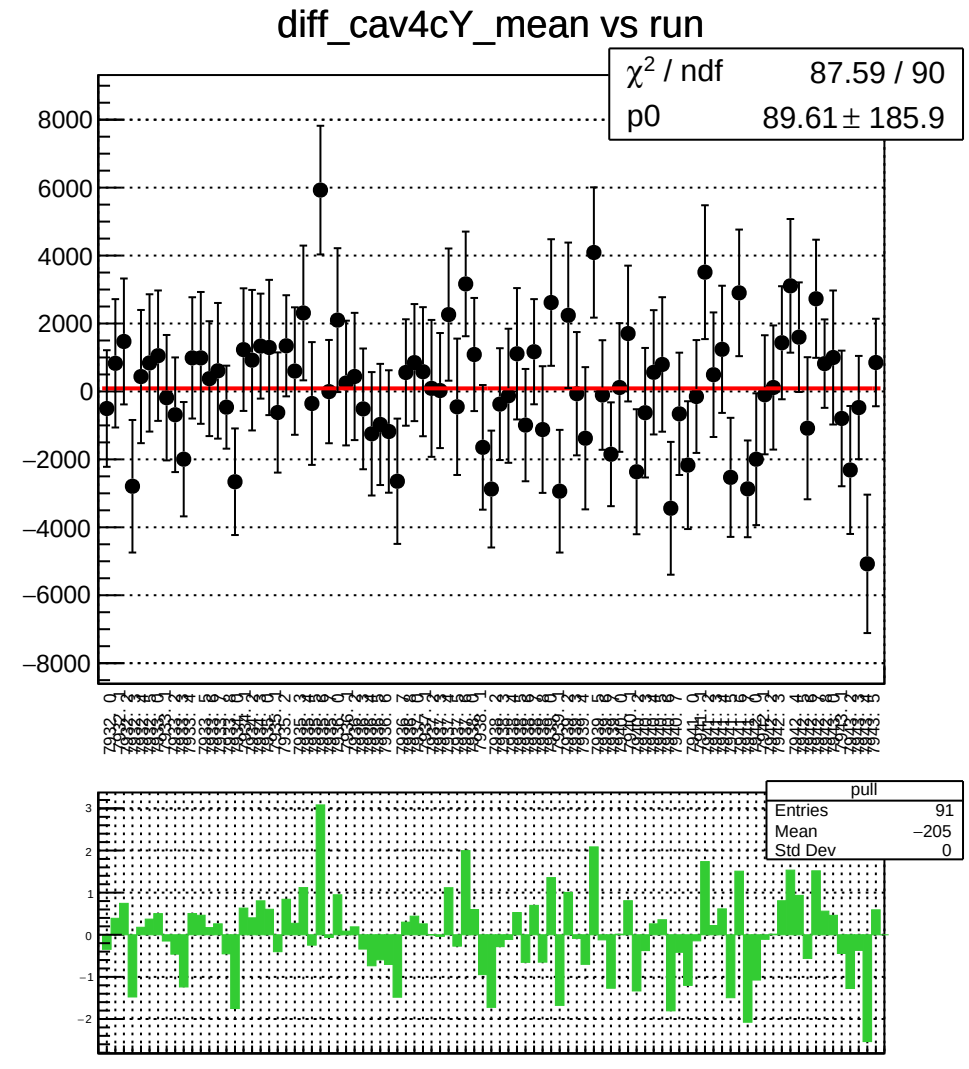

diff_cav4bY_mean vs run
χ² / ndf 90.25 / 90
p0 166.2 ± 441.4
pull
Entries 91
Mean −125.7
Std Dev 0
pull1D
Entries 91
Mean 0.01121
Std Dev 0.9958

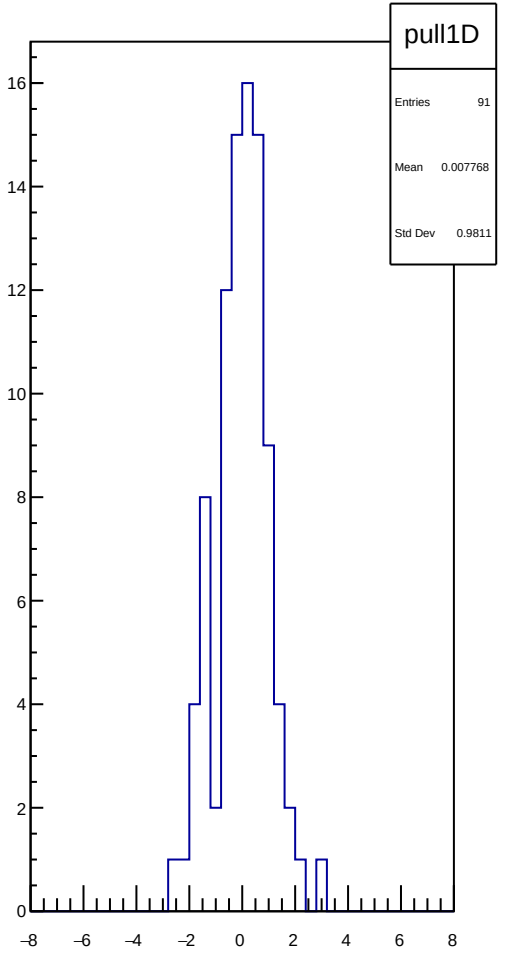

diff_cav4bY_rms vs run
×10^3
500
480
460
440
420
400
380
360
340
320
χ² / ndf 1.22e+04 / 90
p0 4.112e+05 ± 312.1

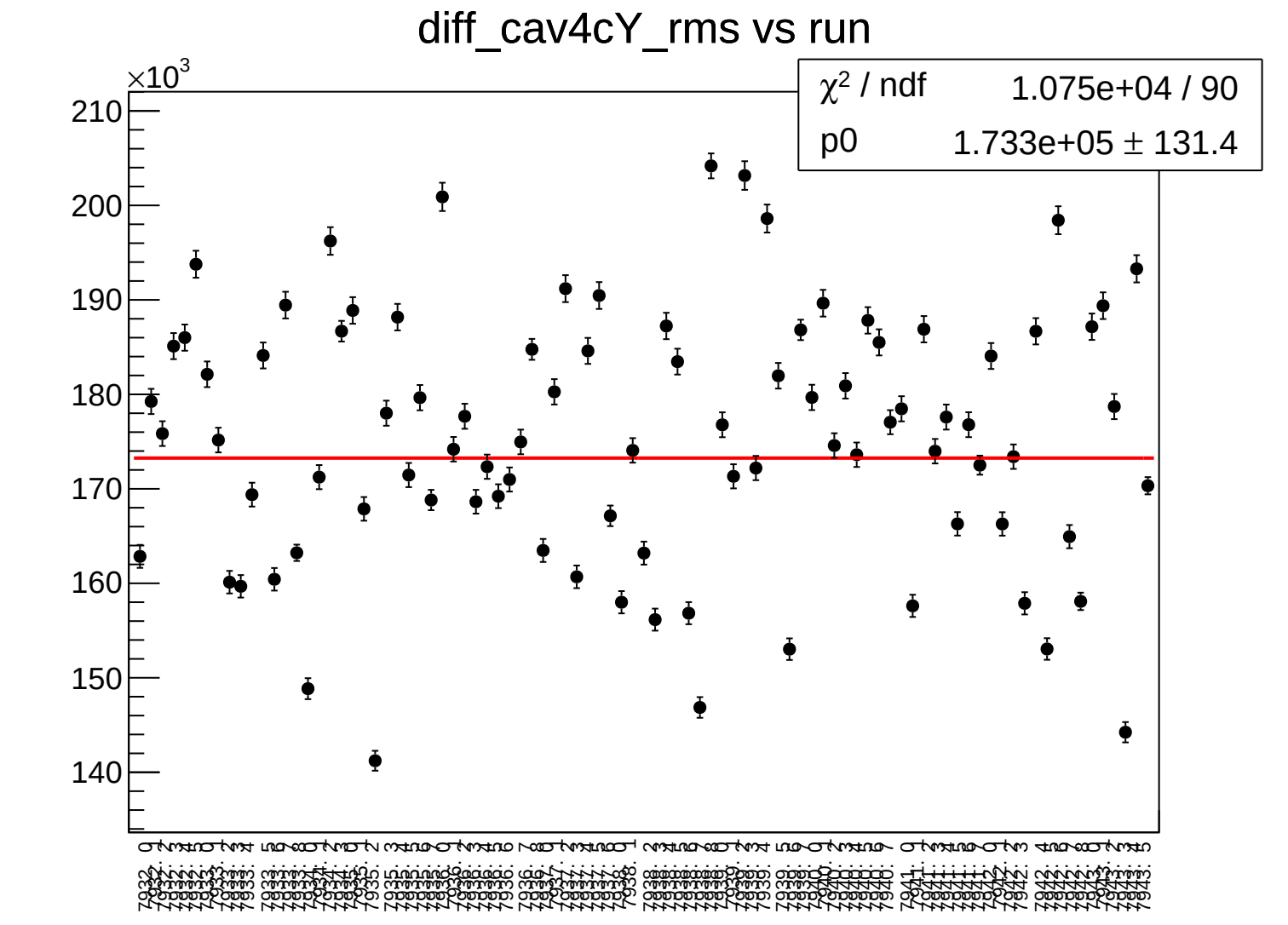

diff_cav4cX_mean vs run
χ² / ndf 113.2 / 90
p0 −268 ± 767.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −23.06
Std Dev 0
2
1
0
−1
−2

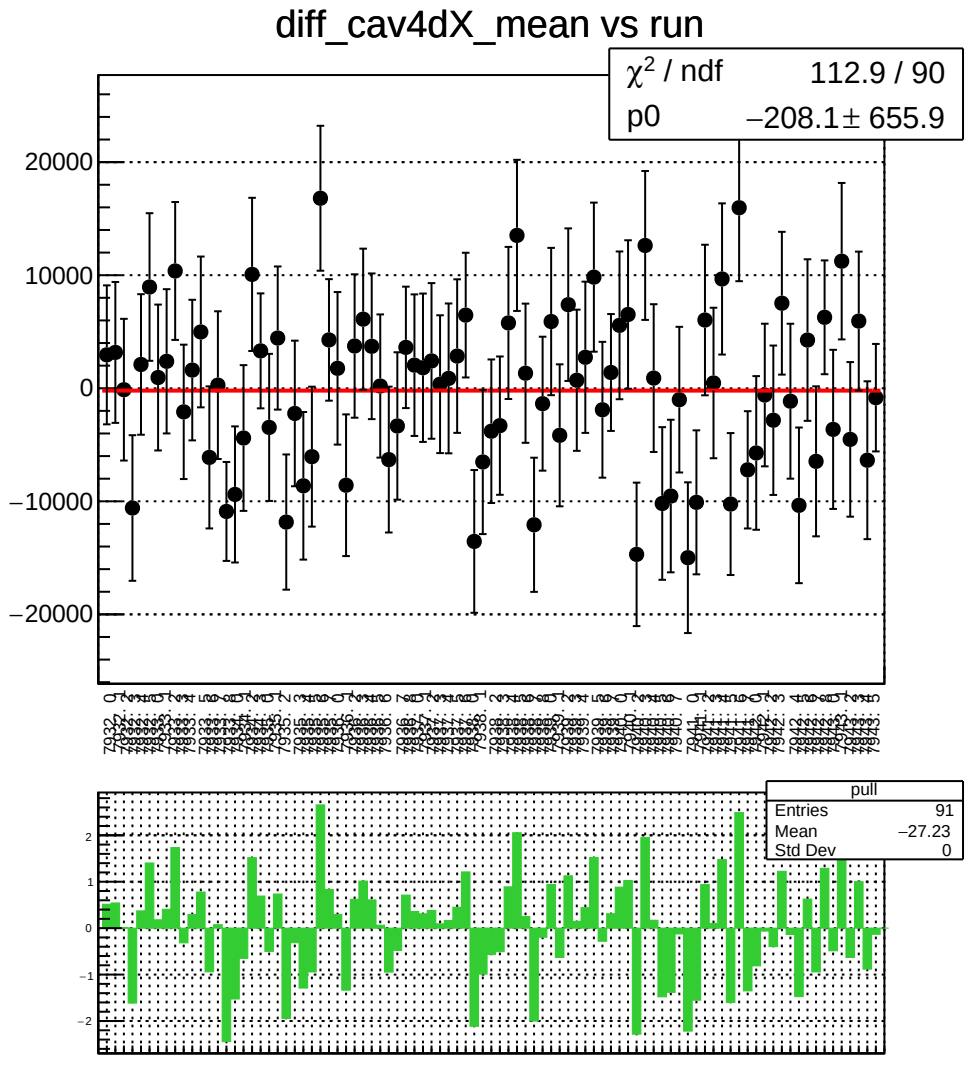

pull1D
Entries 91
Mean 0.01234
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

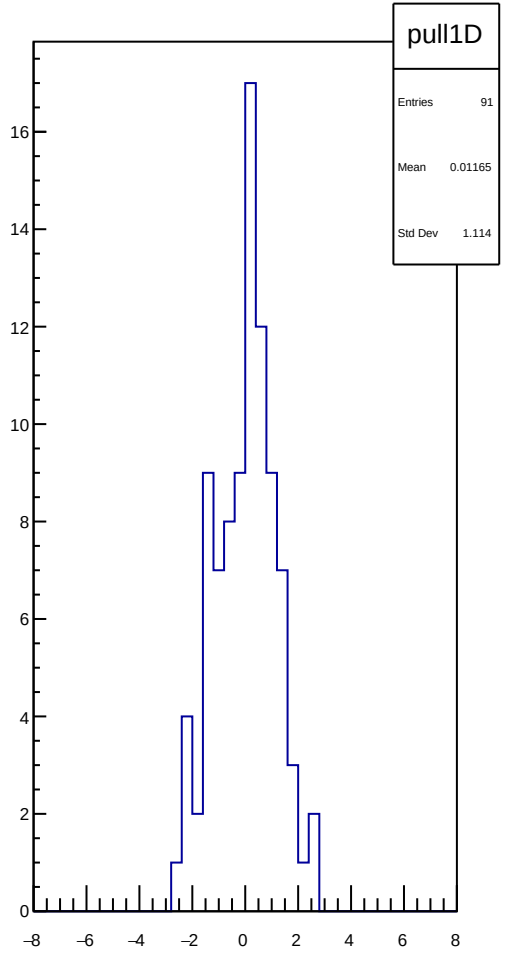

diff_cav4cX_rms vs run
χ² / ndf 2820 / 90
p0 7.172e+05 ± 542.9
×10³
820
800
780
760
740
720
700
680
660
640

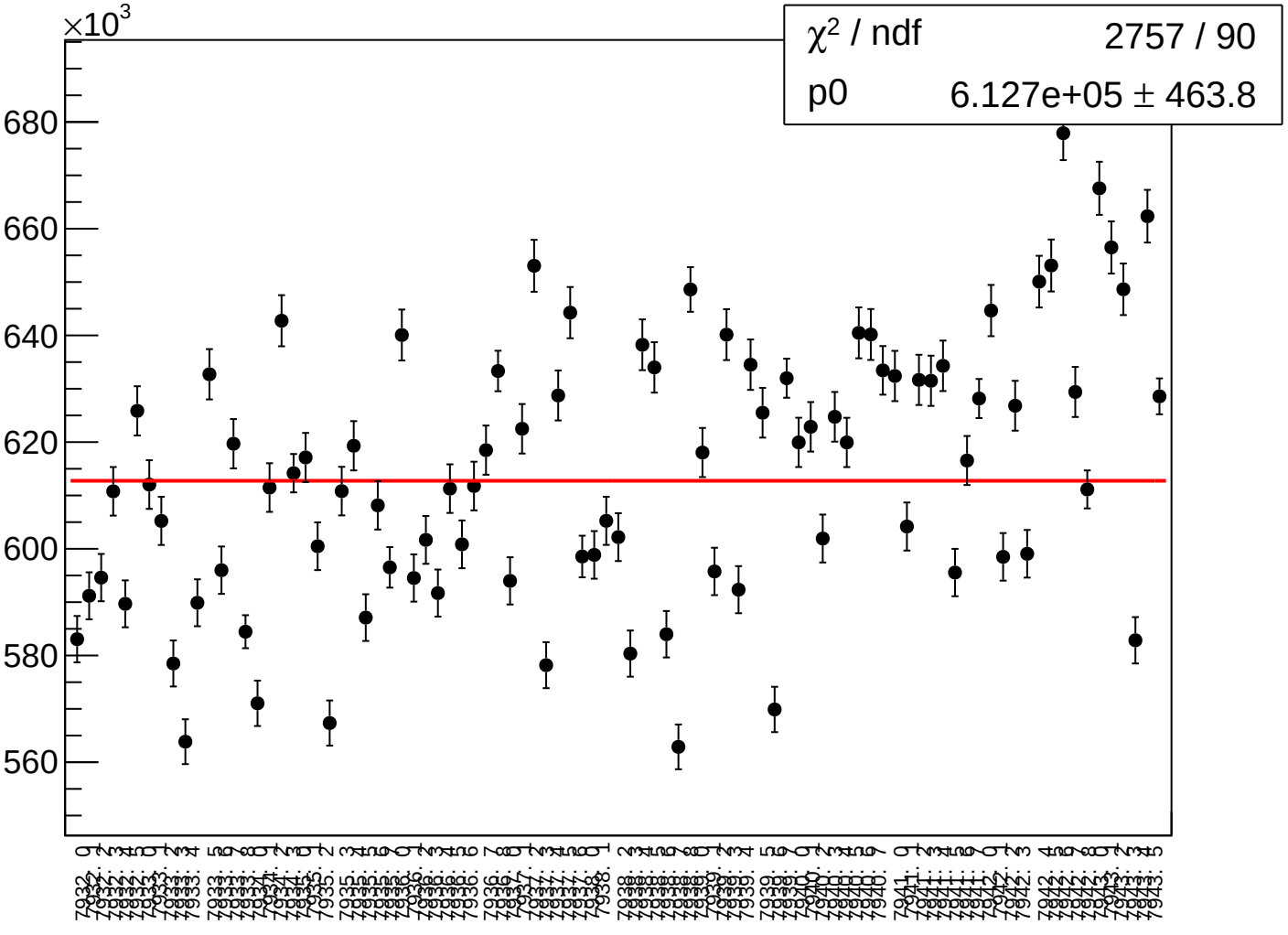

diff_cav4cY_mean vs run
χ² / ndf 87.59 / 90
p0 89.61 ± 185.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean −205
Std Dev 0
3
2
1
0
−1
−2

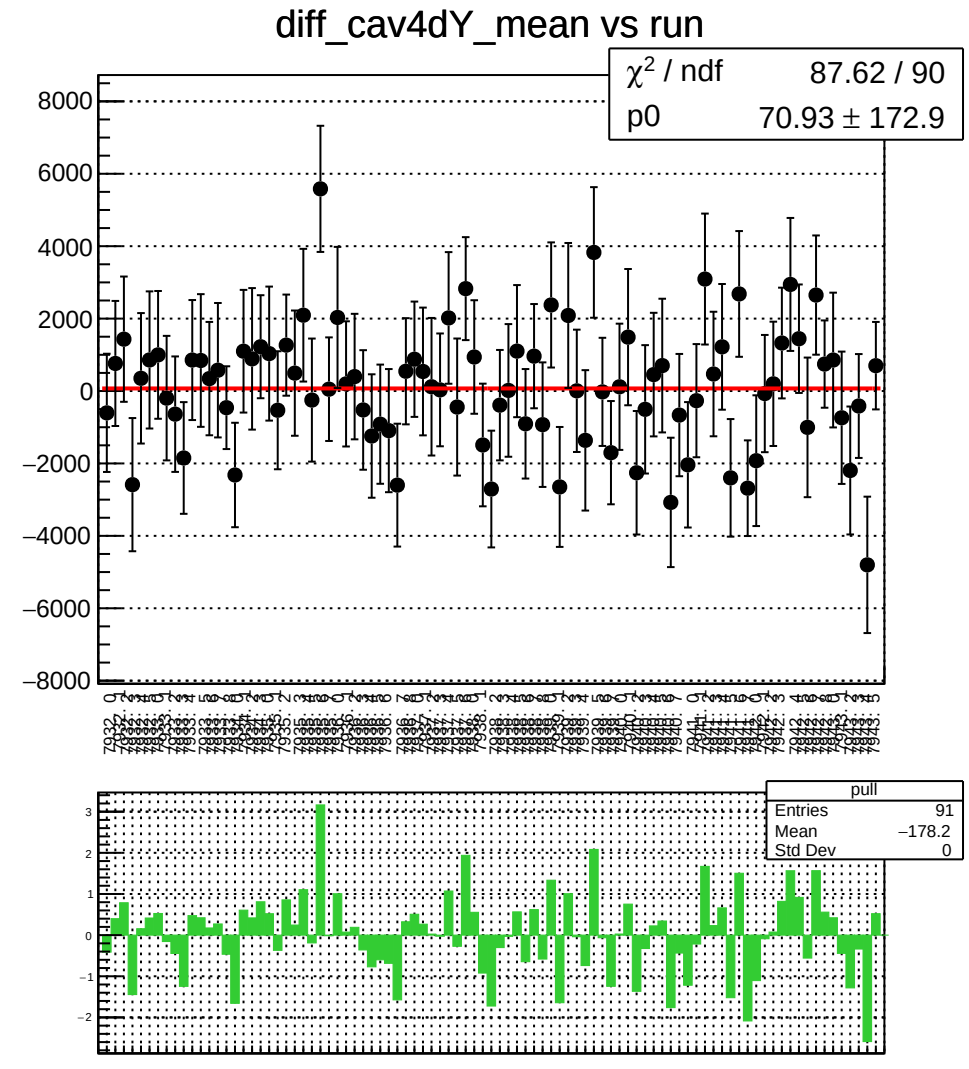

pull1D
Entries 91
Mean 0.007768
Std Dev 0.9811
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

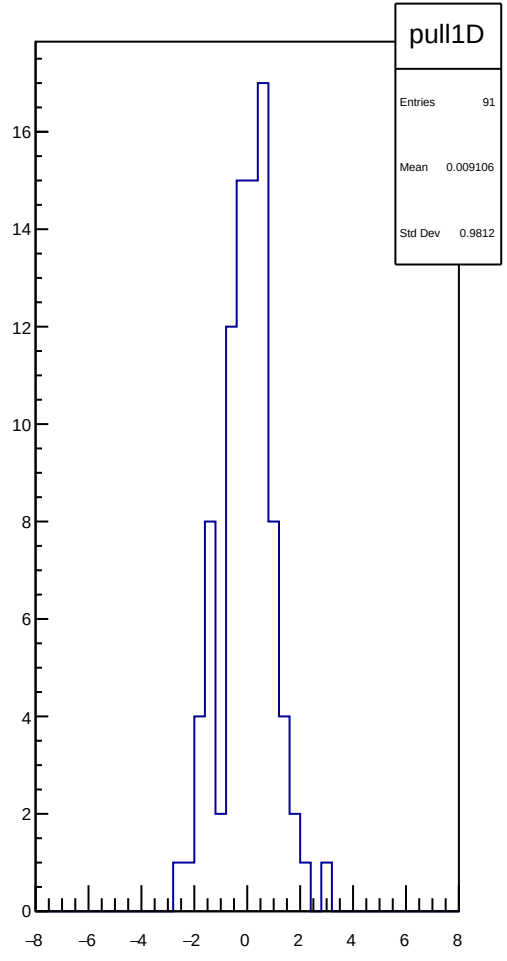

diff_cav4cY_rms vs run
×10^3
210
200
190
180
170
160
150
140
χ² / ndf 1.075e+04 / 90
p0 1.733e+05 ± 131.4

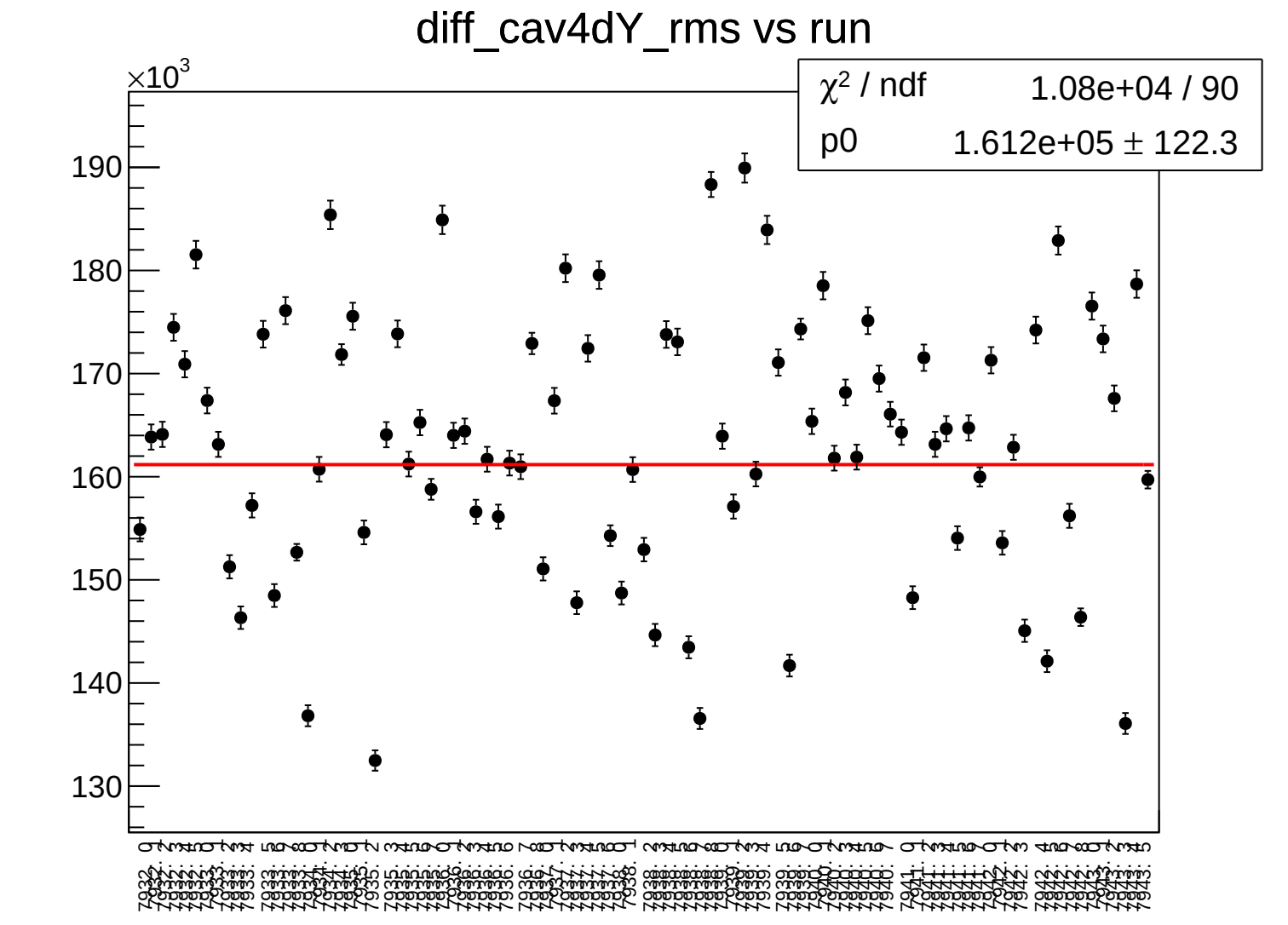

diff_cav4dX_mean vs run
χ² / ndf 112.9 / 90
p0 −208.1± 655.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −27.23
Std Dev 0
2
1
0
−1
−2

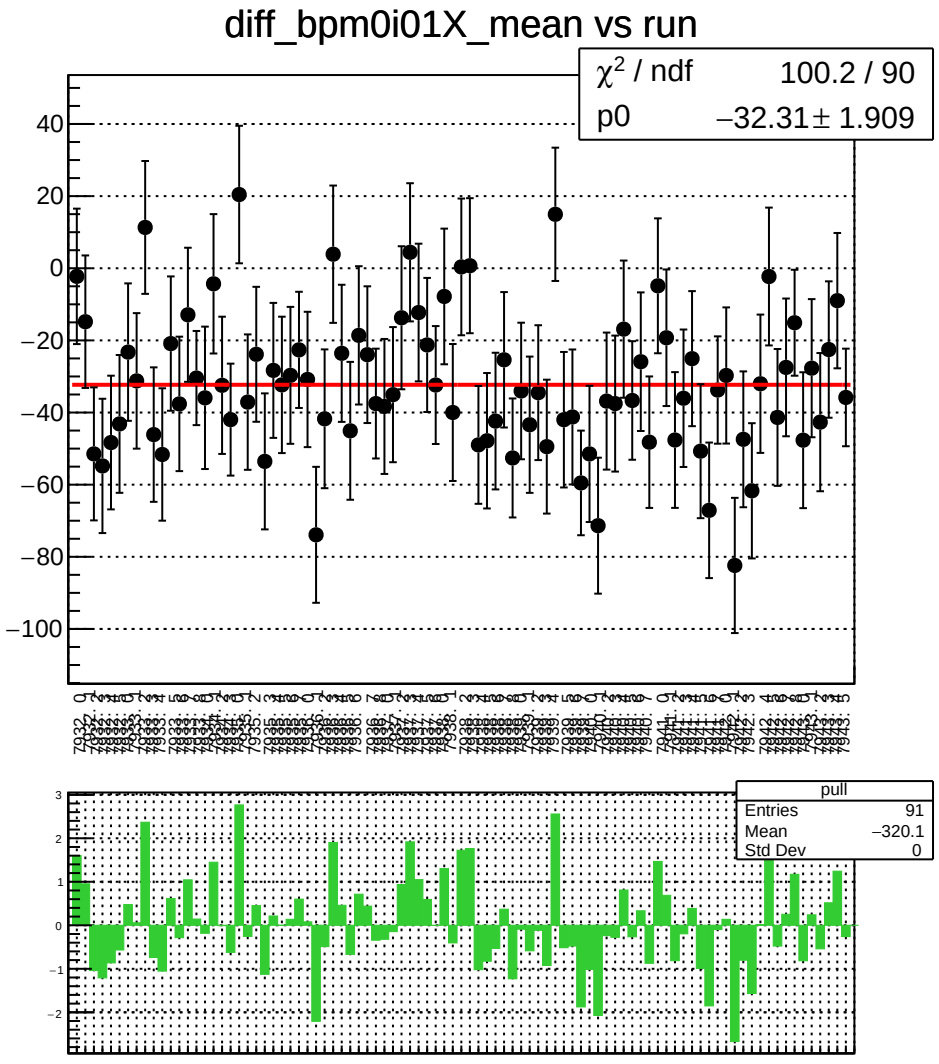

pull1D
Entries 91
Mean 0.01165
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

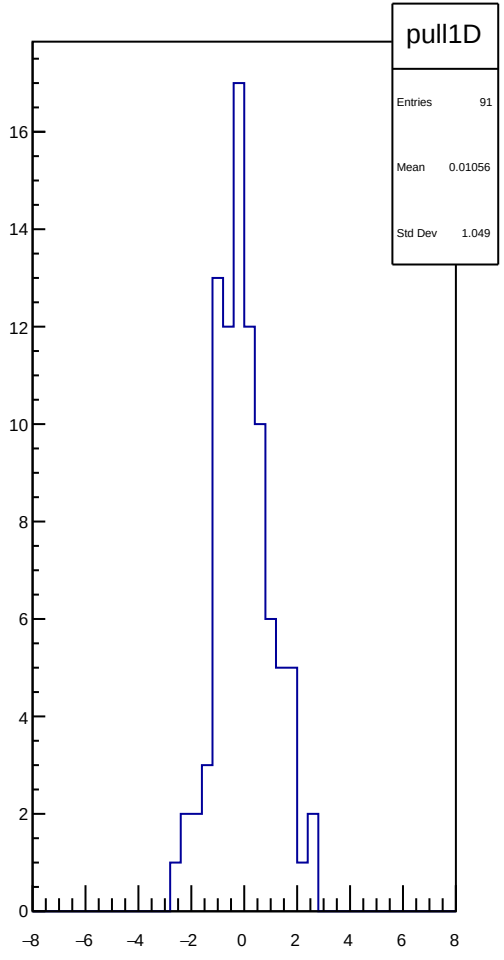

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2757 / 90
p0 6.127e+05 ± 463.8
680
660
640
620
600
580
560

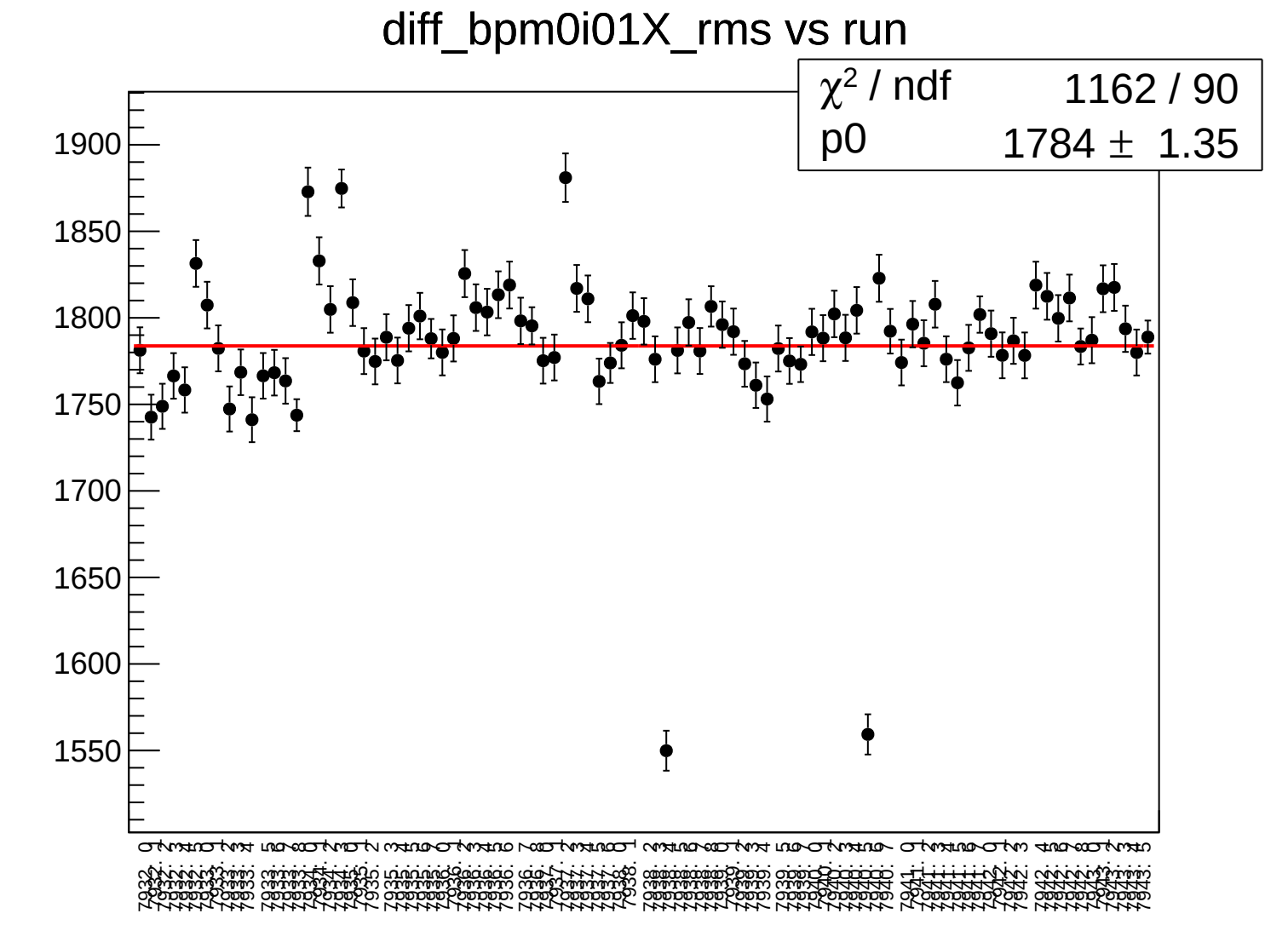

diff_cav4dY_mean vs run
χ² / ndf 87.62 / 90
p0 70.93 ± 172.9
pull
Entries 91
Mean −178.2
Std Dev 0

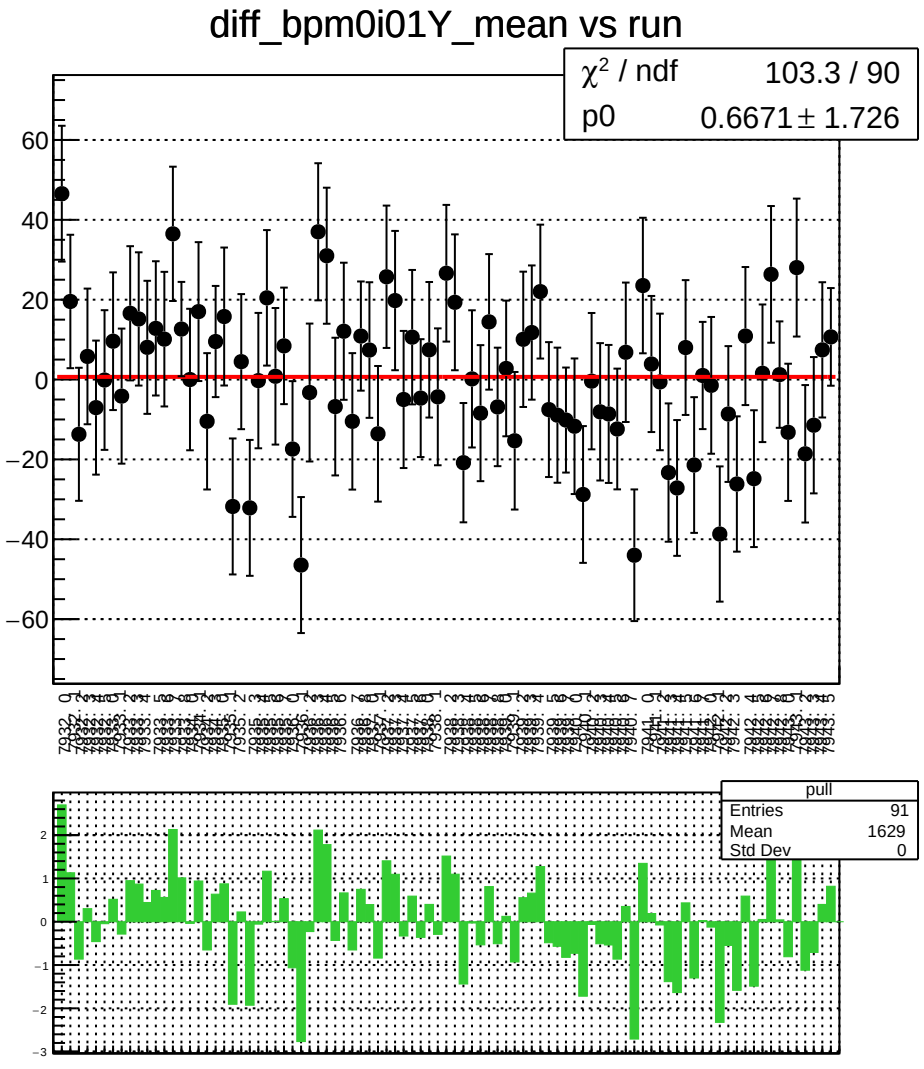

pull1D
Entries 91
Mean 0.009106
Std Dev 0.9812

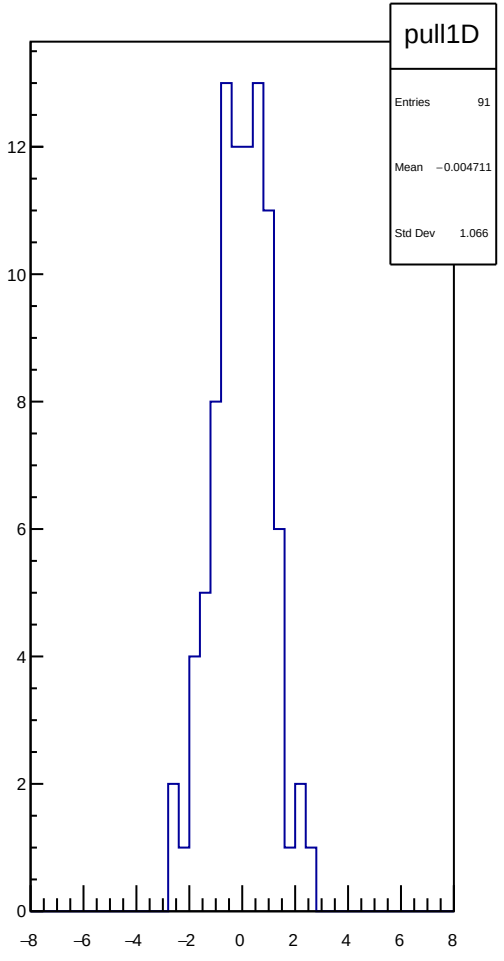

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.08e+04 / 90
p0 1.612e+05 ± 122.3
190
180
170
160
150
140
130

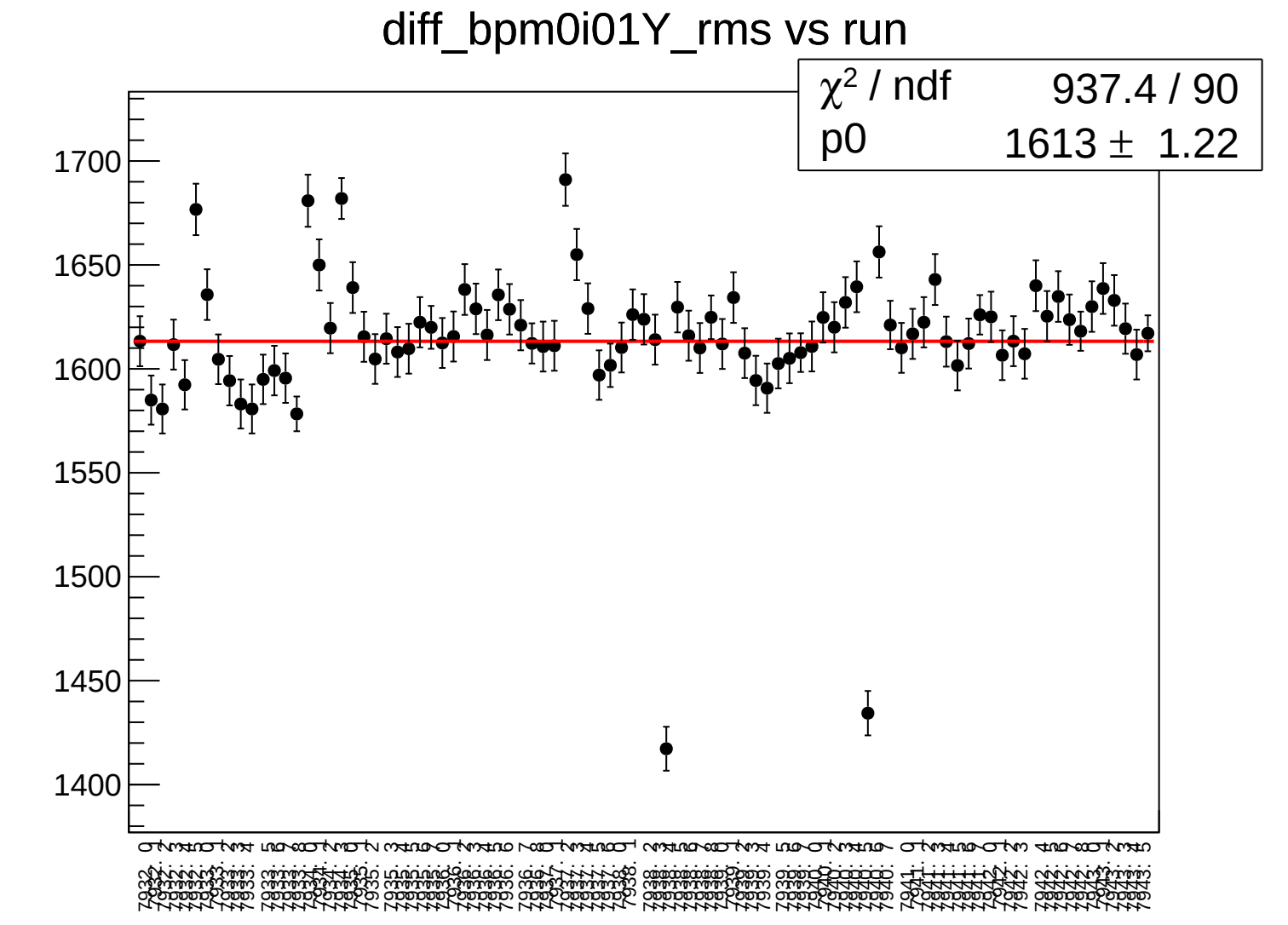

diff_bpm0i01X_mean vs run
χ² / ndf 100.2 / 90
p0 −32.31 ± 1.909
pull
Entries 91
Mean −320.1
Std Dev 0

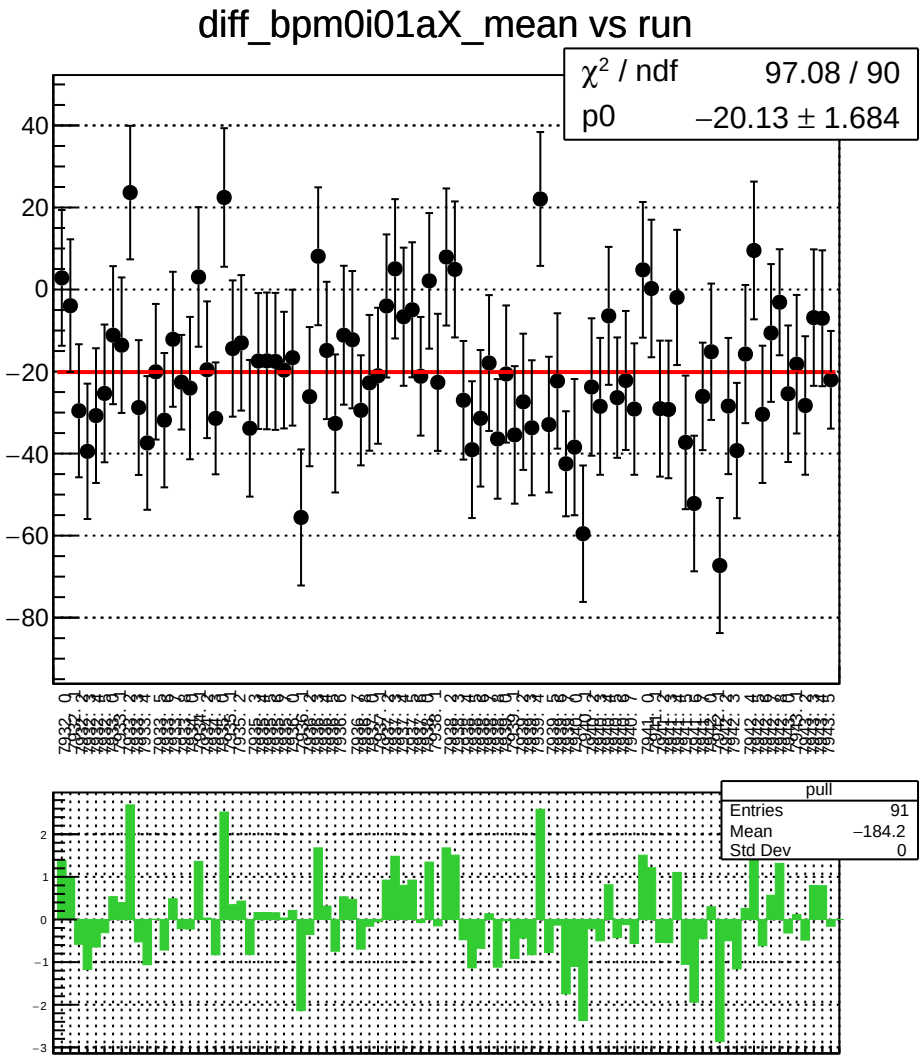

pull1D
Entries 91
Mean 0.01056
Std Dev 1.049

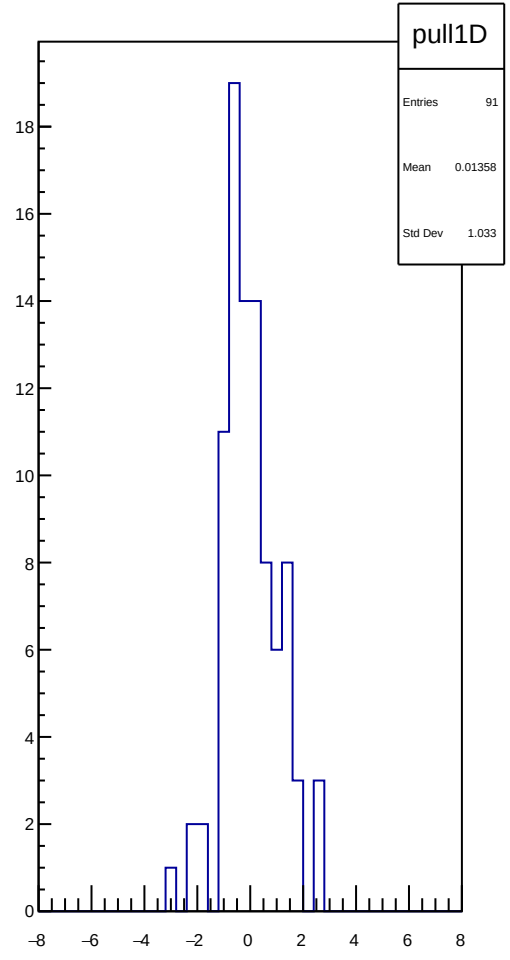

diff_bpm0i01X_rms vs run
χ² / ndf 1162 / 90
p0 1784 ± 1.35
1900
1850
1800
1750
1700
1650
1600
1550

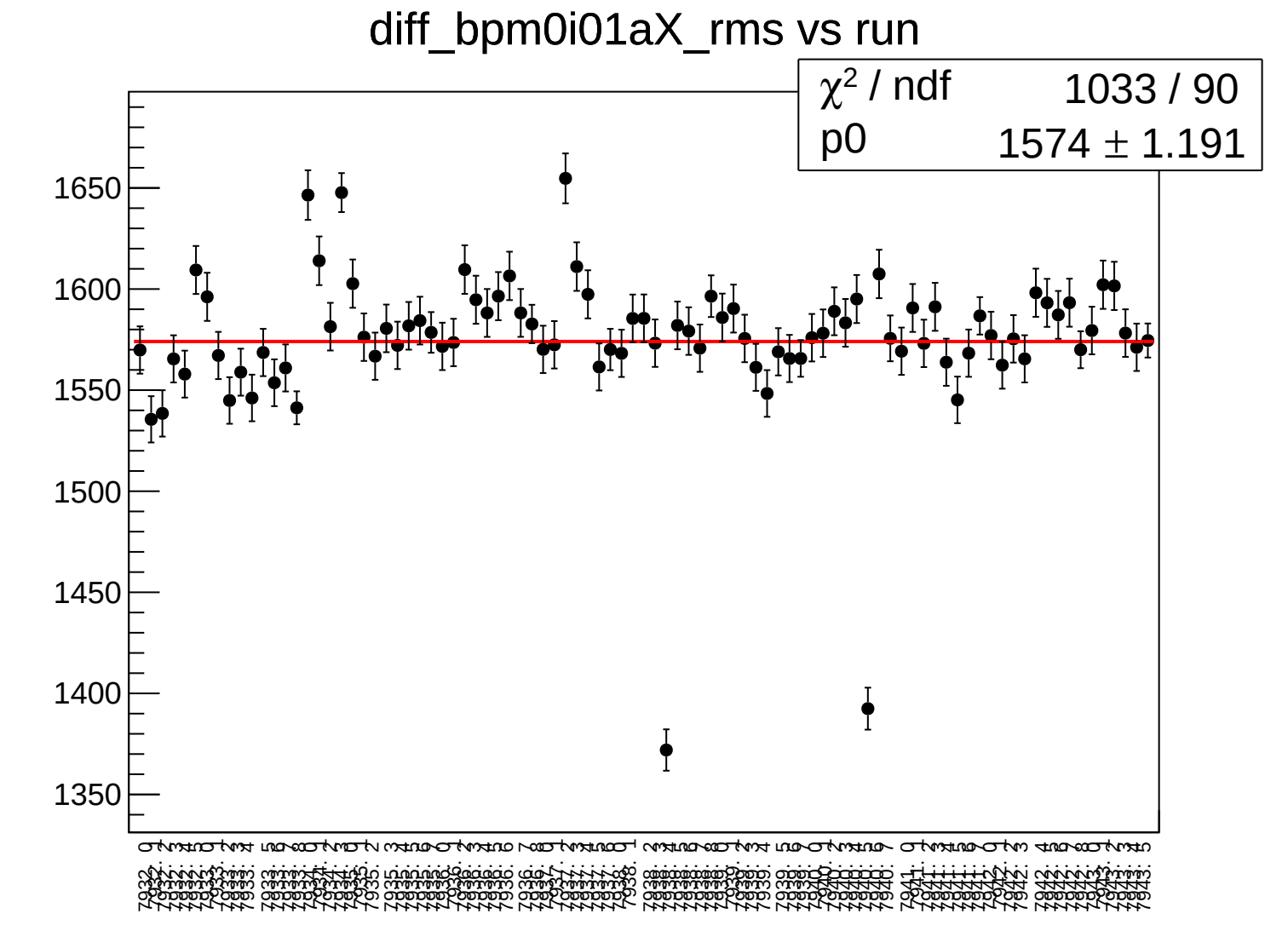

diff_bpm0i01Y_mean vs run
χ² / ndf 103.3 / 90
p0 0.6671 ± 1.726
pull
Entries 91
Mean 1629
Std Dev 0

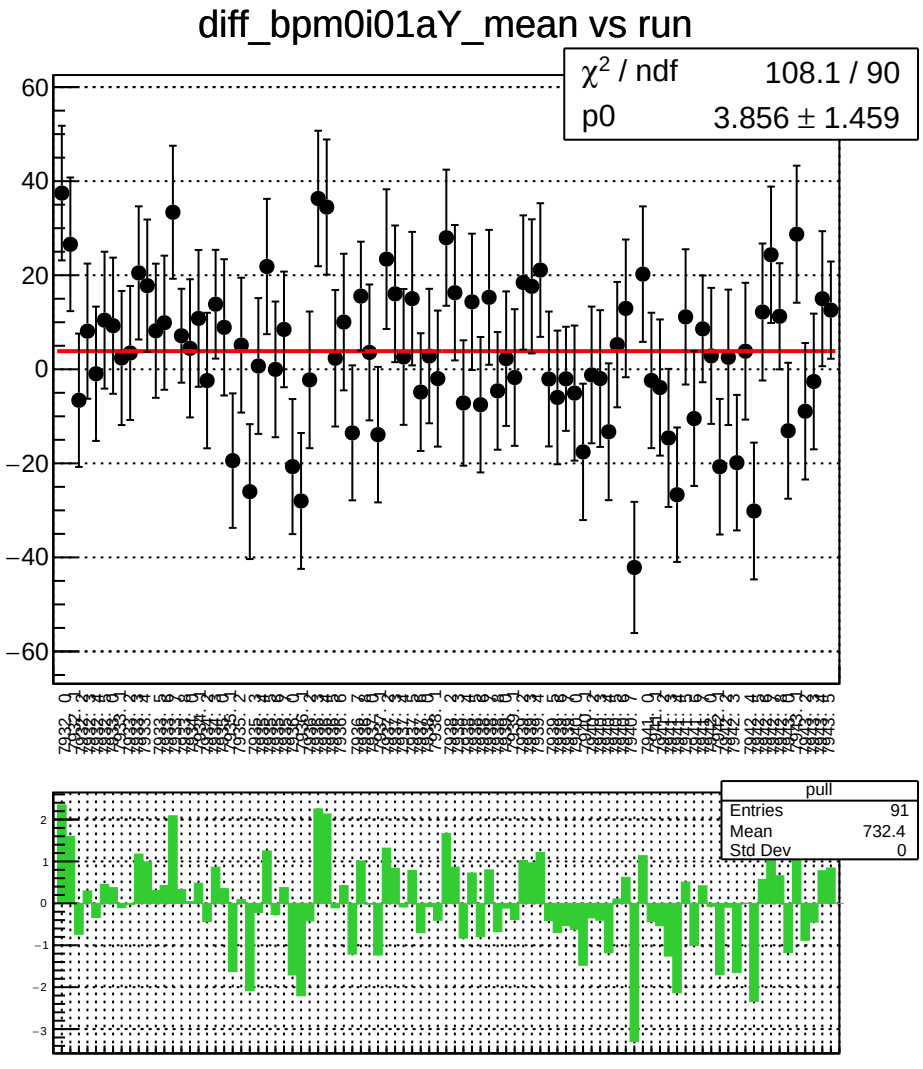

pull1D
Entries 91
Mean −0.004711
Std Dev 1.066

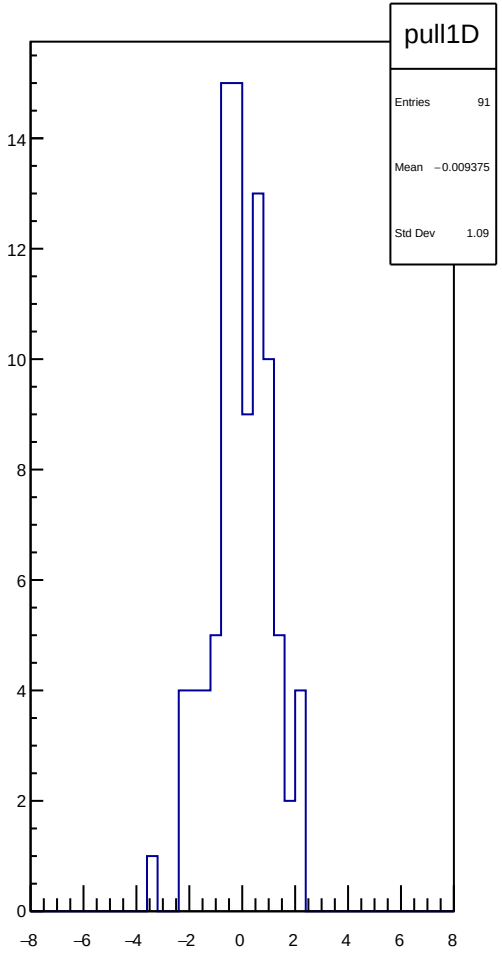

diff_bpm0i01Y_rms vs run
χ² / ndf 937.4 / 90
p0 1613 ± 1.22
1700
1650
1600
1550
1500
1450
1400

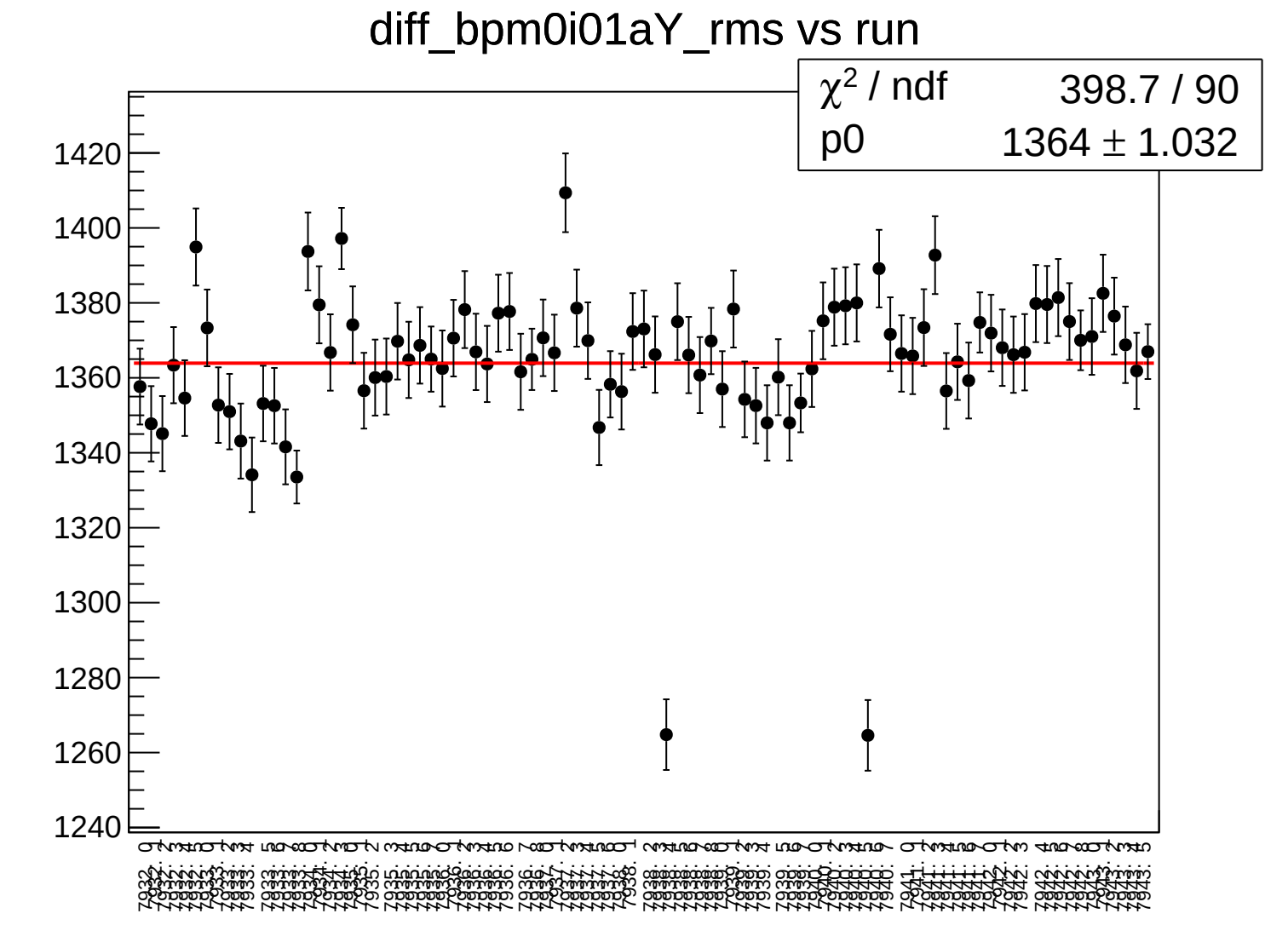

diff_bpm0i01aX_mean vs run
χ² / ndf 97.08 / 90
p0 −20.13 ± 1.684
pull
Entries 91
Mean −184.2
Std Dev 0

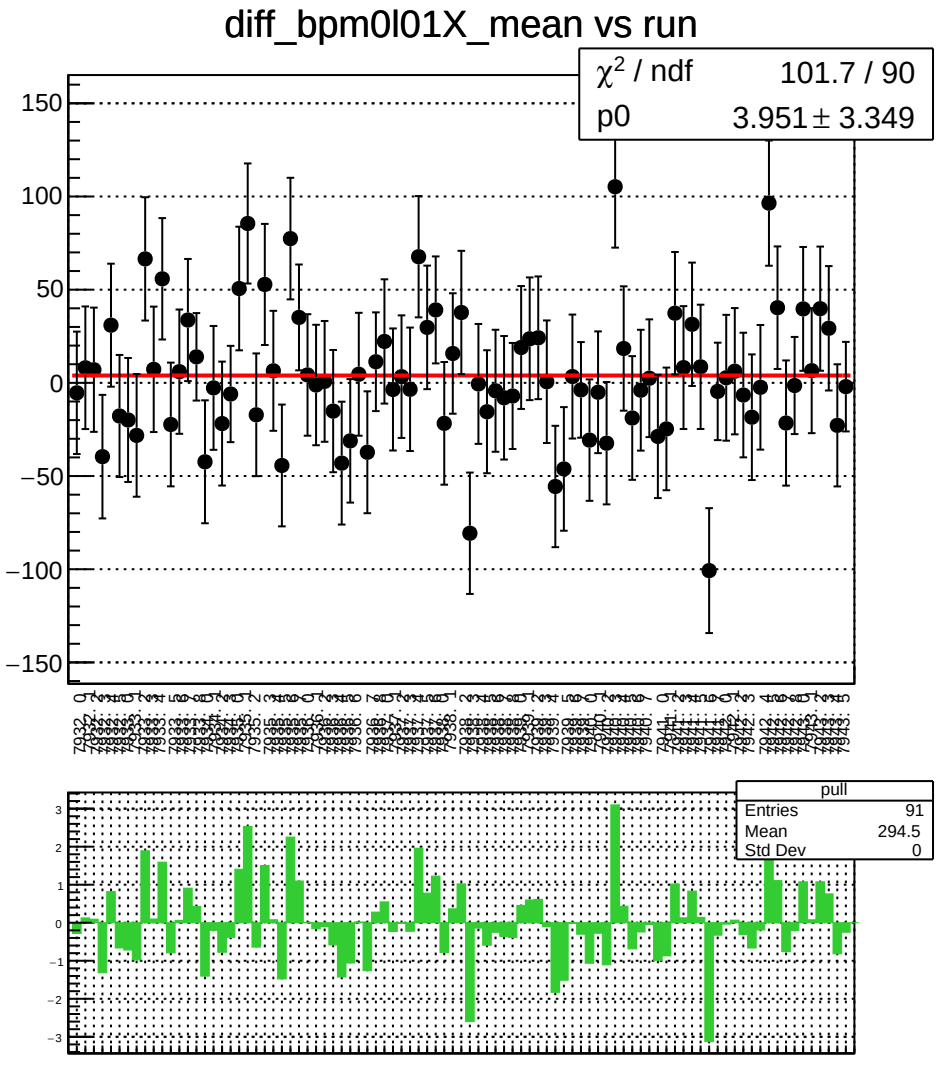

pull1D
Entries 91
Mean 0.01358
Std Dev 1.033

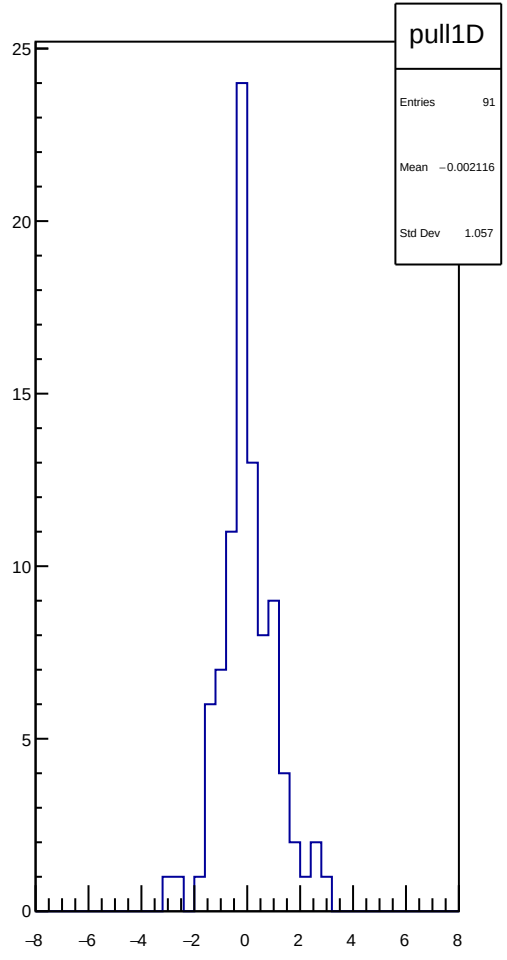

diff_bpm0i01aX_rms vs run
χ² / ndf 1033 / 90
p0 1574 ± 1.191
1650
1600
1550
1500
1450
1400
1350

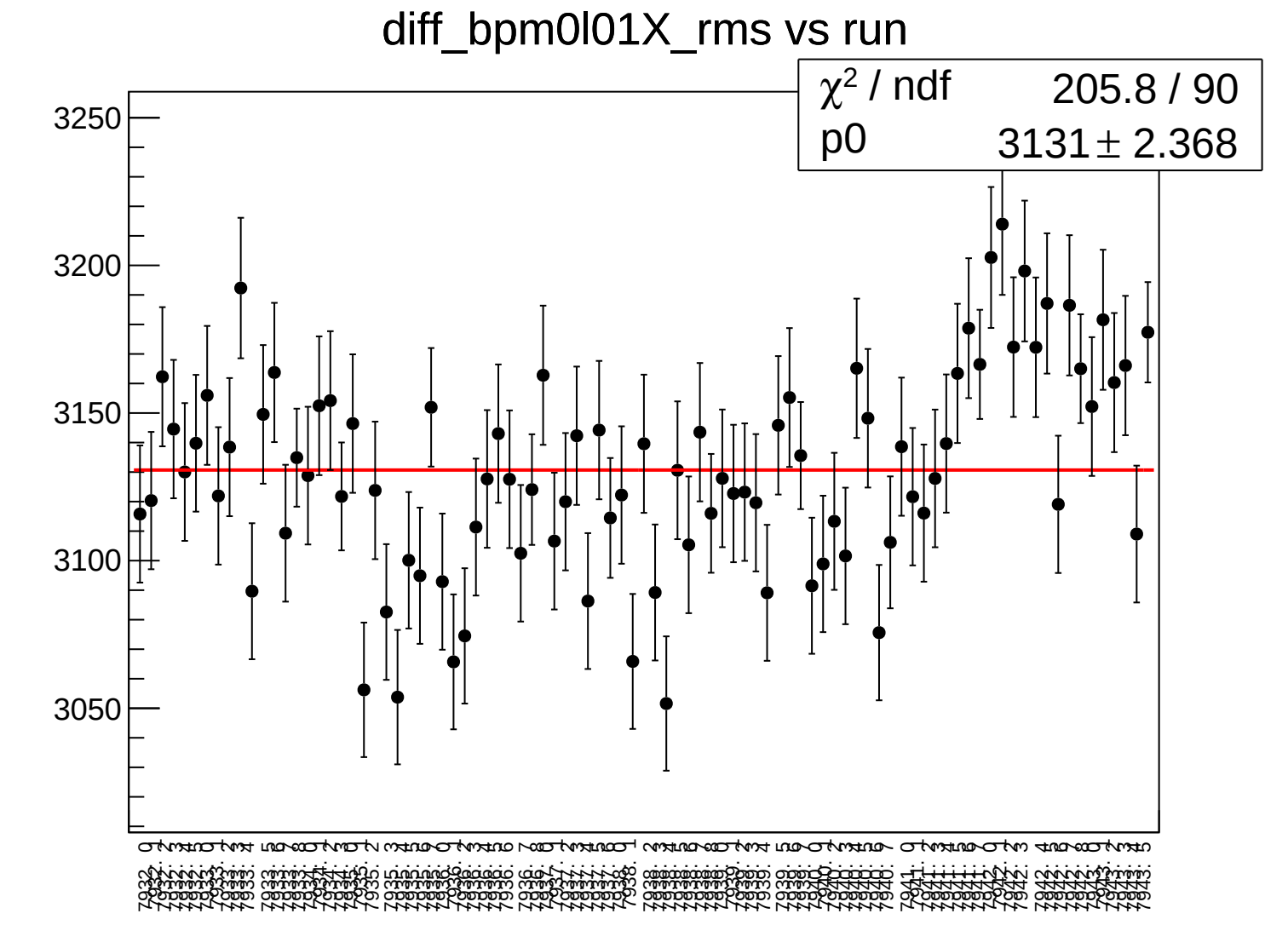

diff_bpm0i01aY_mean vs run
χ² / ndf 108.1 / 90
p0 3.856 ± 1.459
pull
Entries 91
Mean 732.4
Std Dev 0

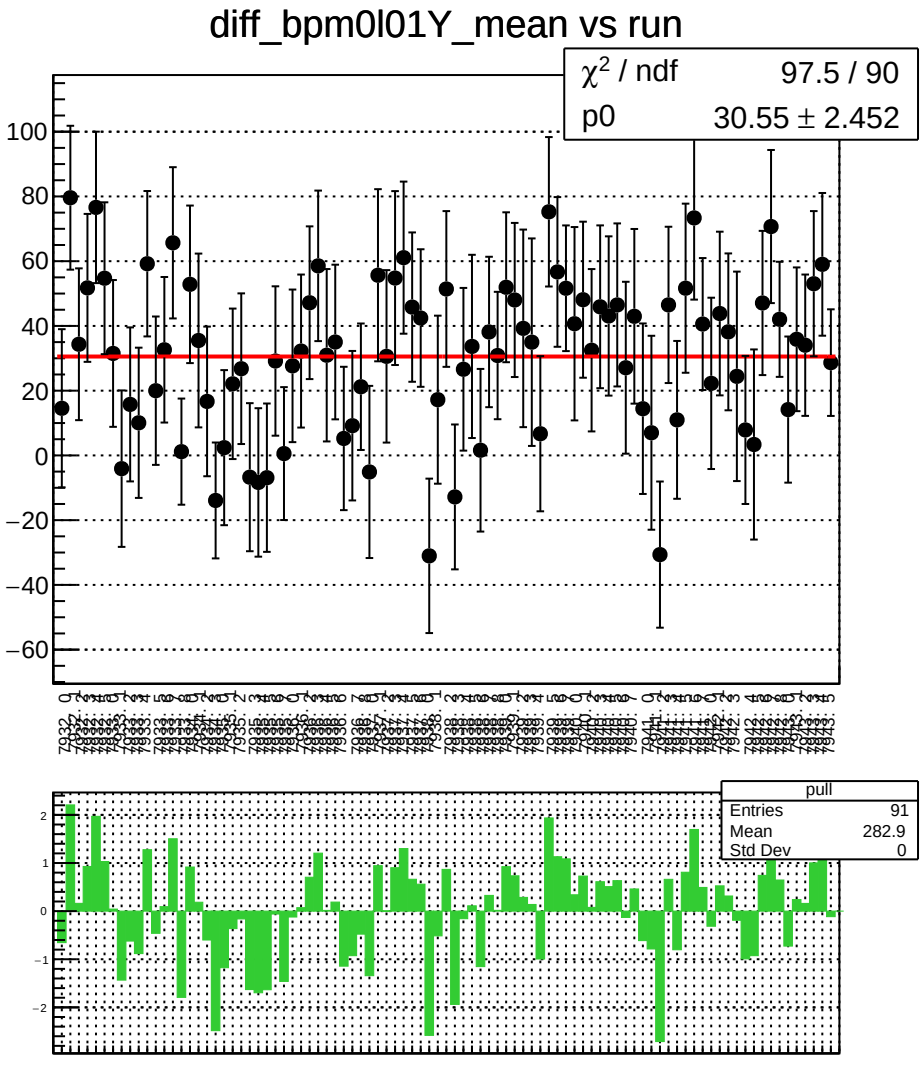

pull1D
Entries 91
Mean −0.009375
Std Dev 1.09

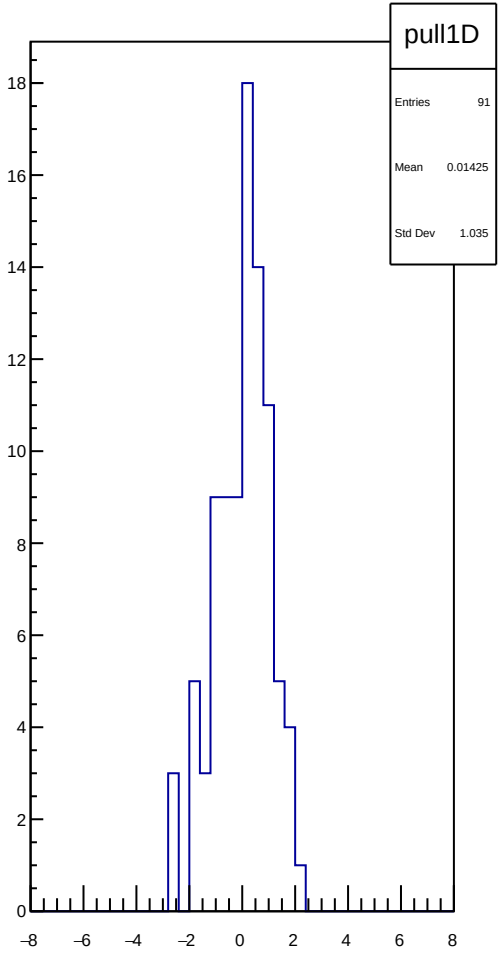

diff_bpm0i01aY_rms vs run
χ² / ndf 398.7 / 90
p0 1364 ± 1.032
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

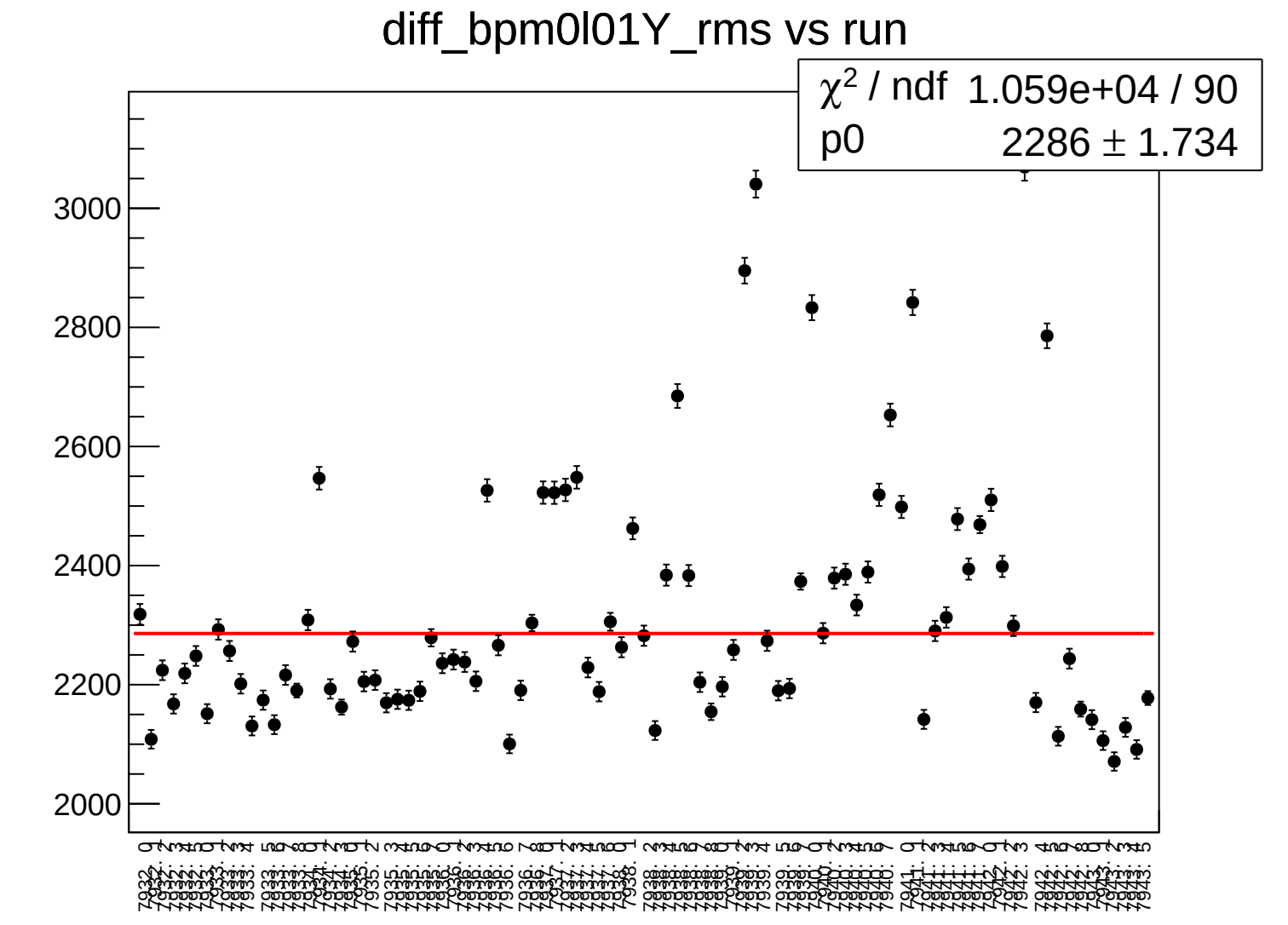

diff_bpm0l01X_mean vs run
χ² / ndf 101.7 / 90
p0 3.951 ± 3.349
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 294.5
Std Dev 0
3
2
1
0
−1
−2
−3

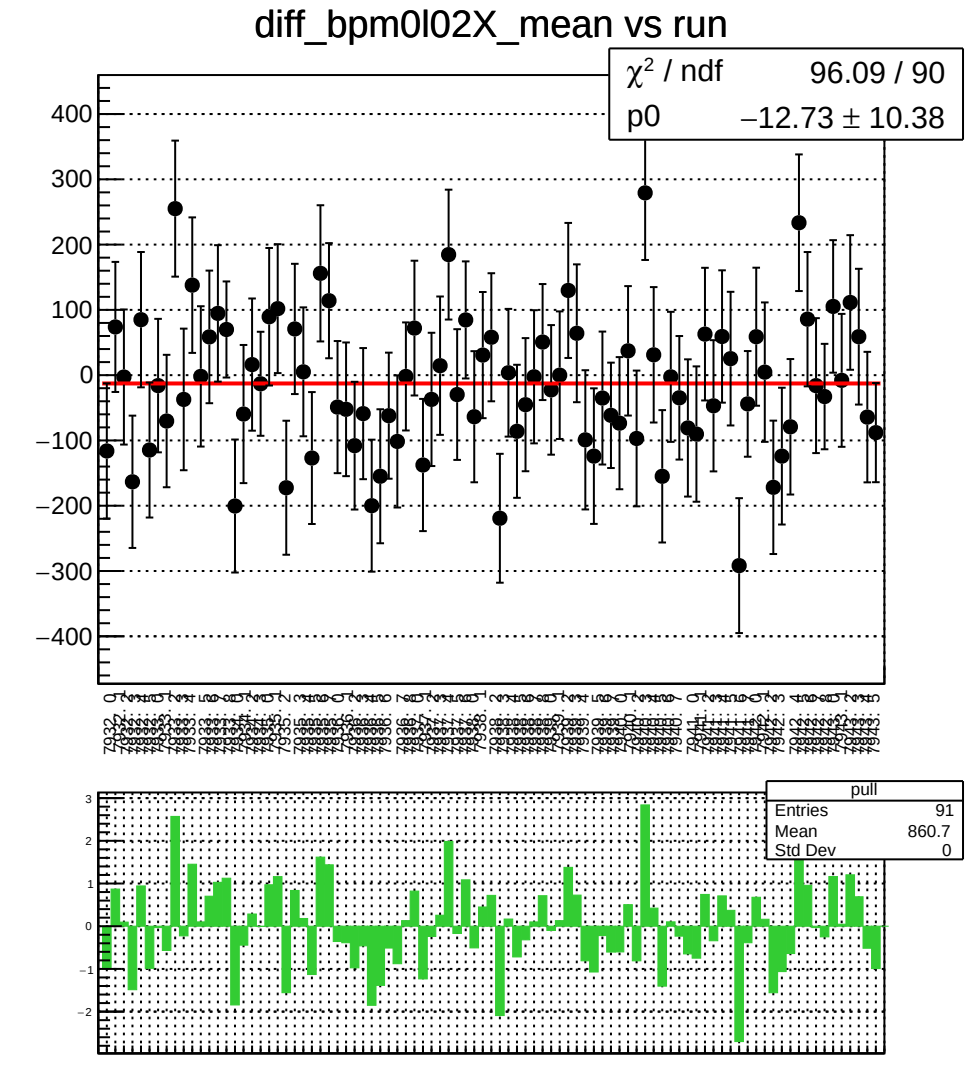

pull1D
Entries 91
Mean −0.002116
Std Dev 1.057
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

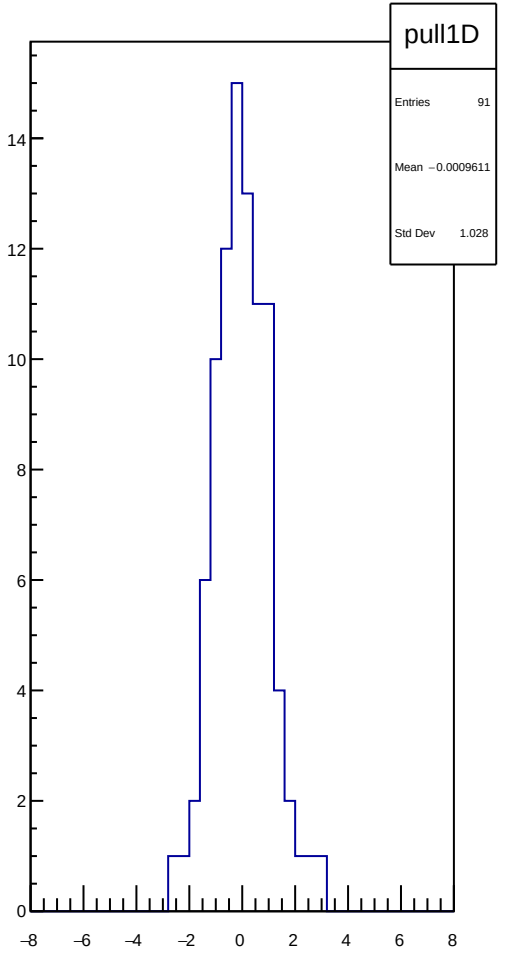

diff_bpm0l01X_rms vs run
χ² / ndf 205.8 / 90
p0 3131 ± 2.368
3250
3200
3150
3100
3050

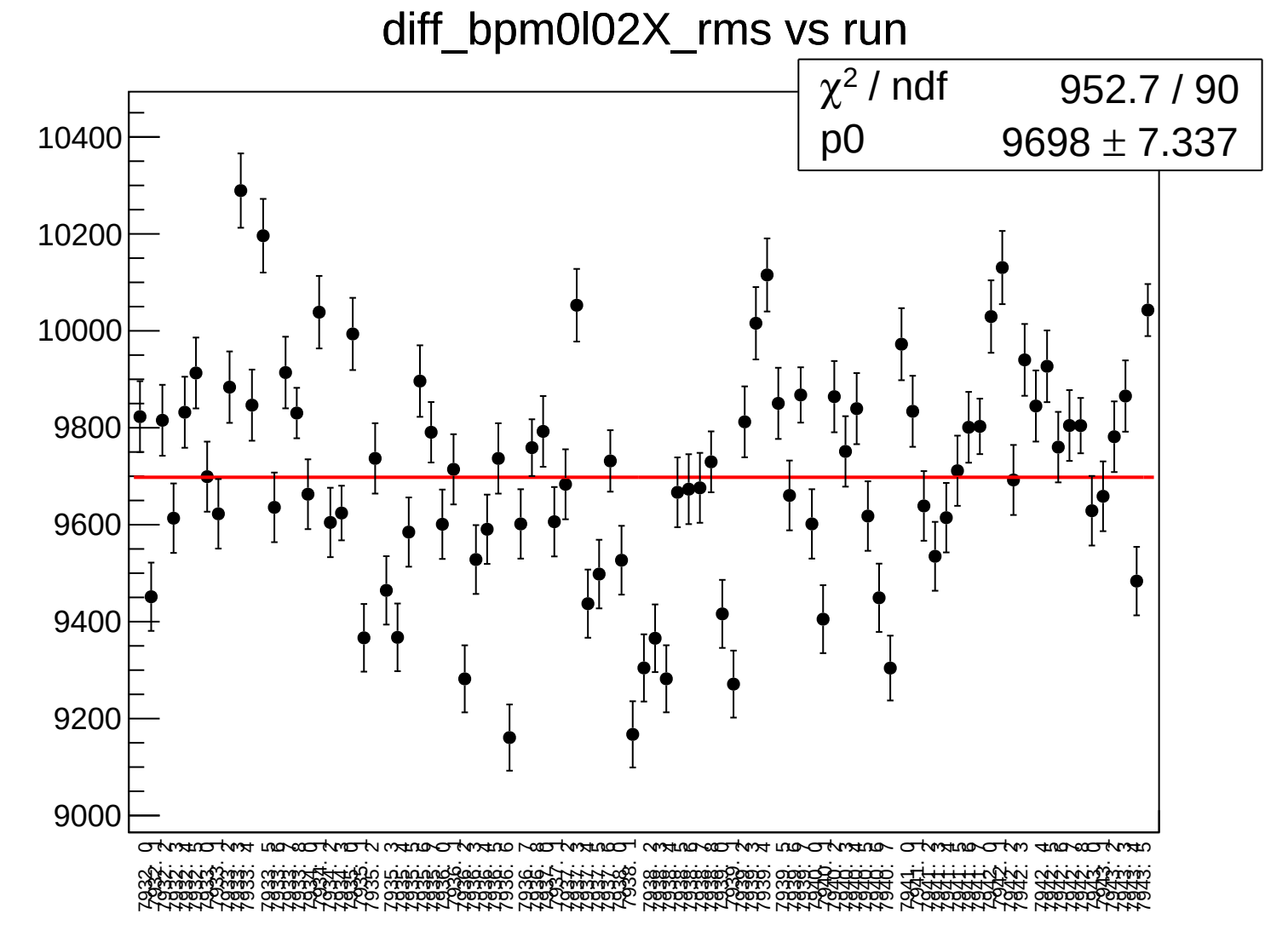

diff_bpm0l01Y_mean vs run
χ^2 / ndf 97.5 / 90
p0 30.55 ± 2.452
pull
Entries 91
Mean 282.9
Std Dev 0

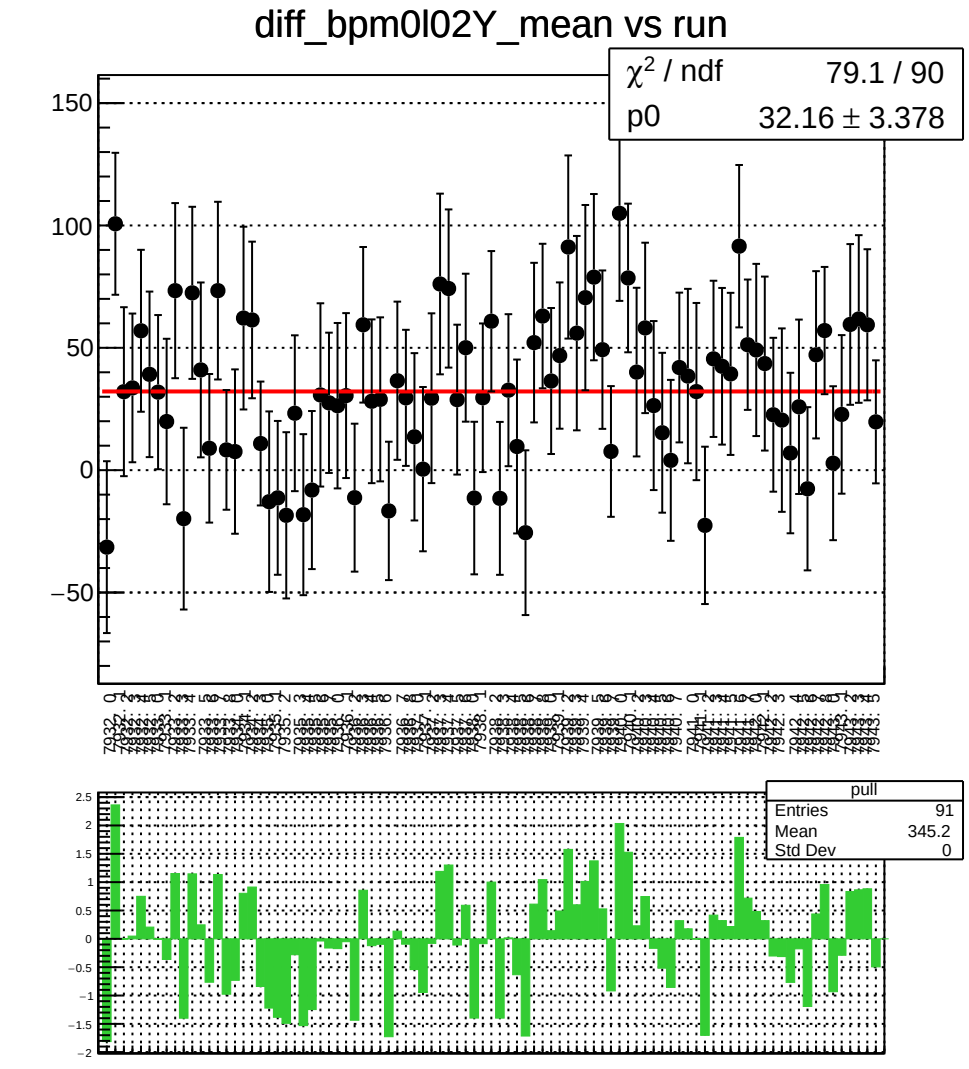

pull1D
Entries 91
Mean 0.01425
Std Dev 1.035

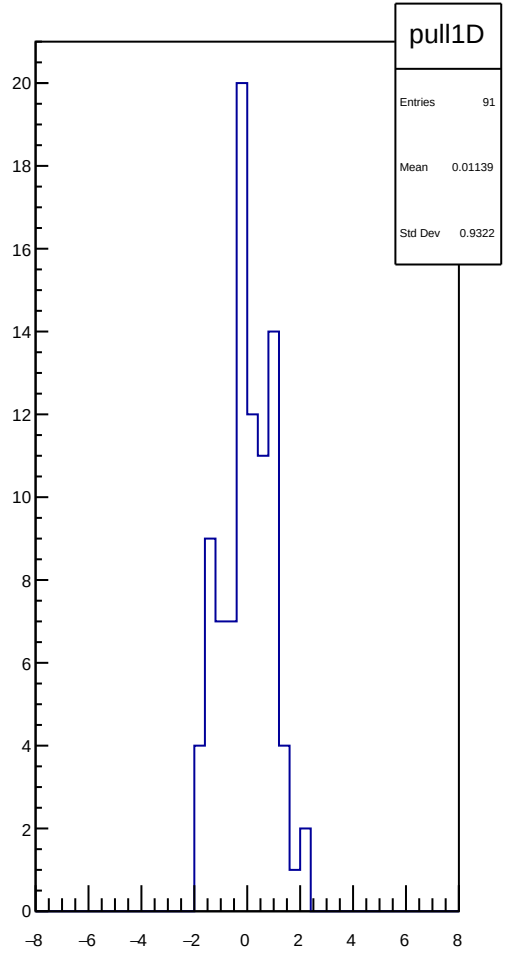

diff_bpm0l01Y_rms vs run
χ² / ndf 1.059e+04 / 90
p0 2286 ± 1.734
3000
2800
2600
2400
2200
2000

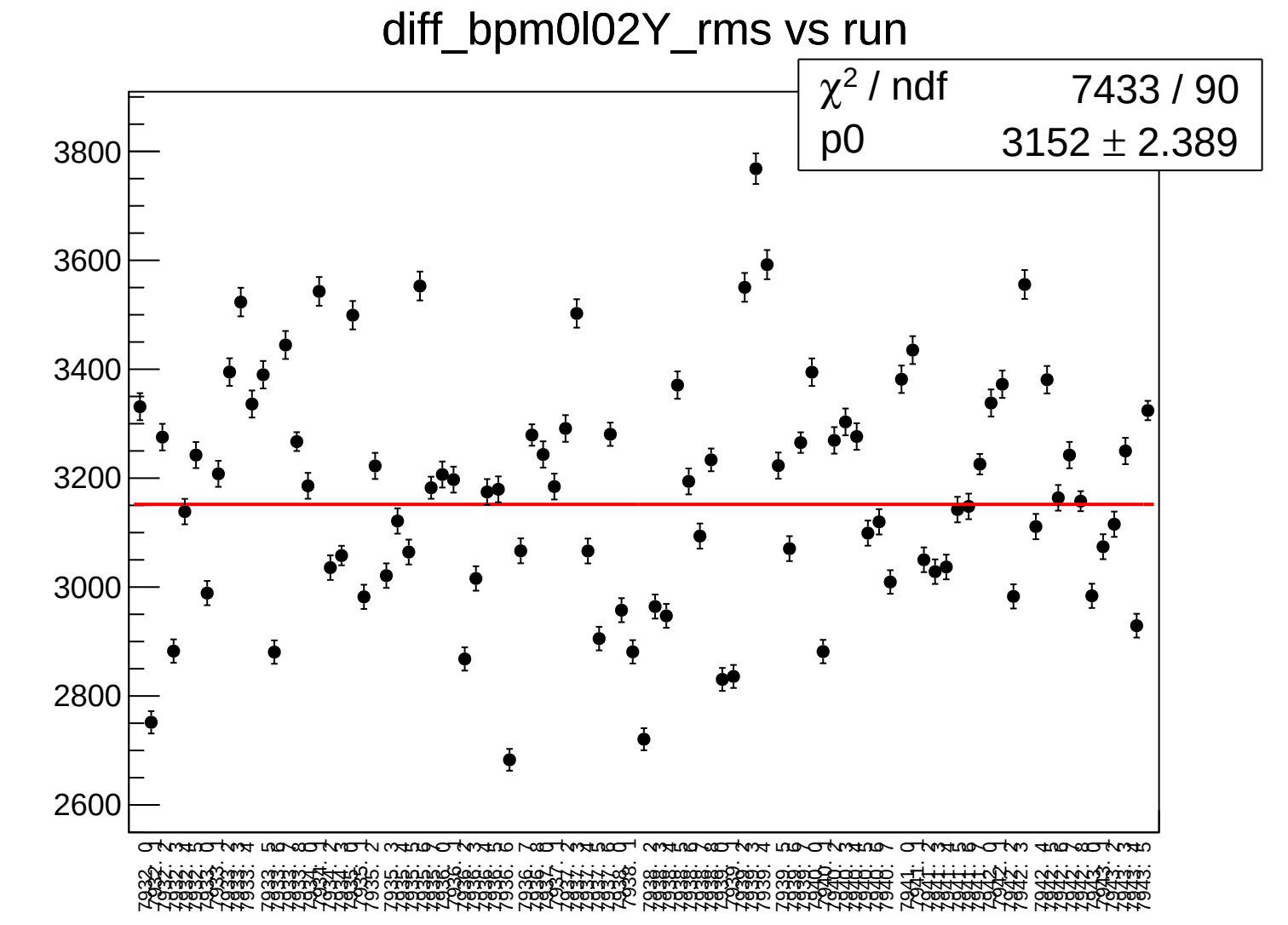

diff_bpm0l02X_mean vs run
χ² / ndf 96.09 / 90
p0 −12.73 ± 10.38
pull
Entries 91
Mean 860.7
Std Dev 0

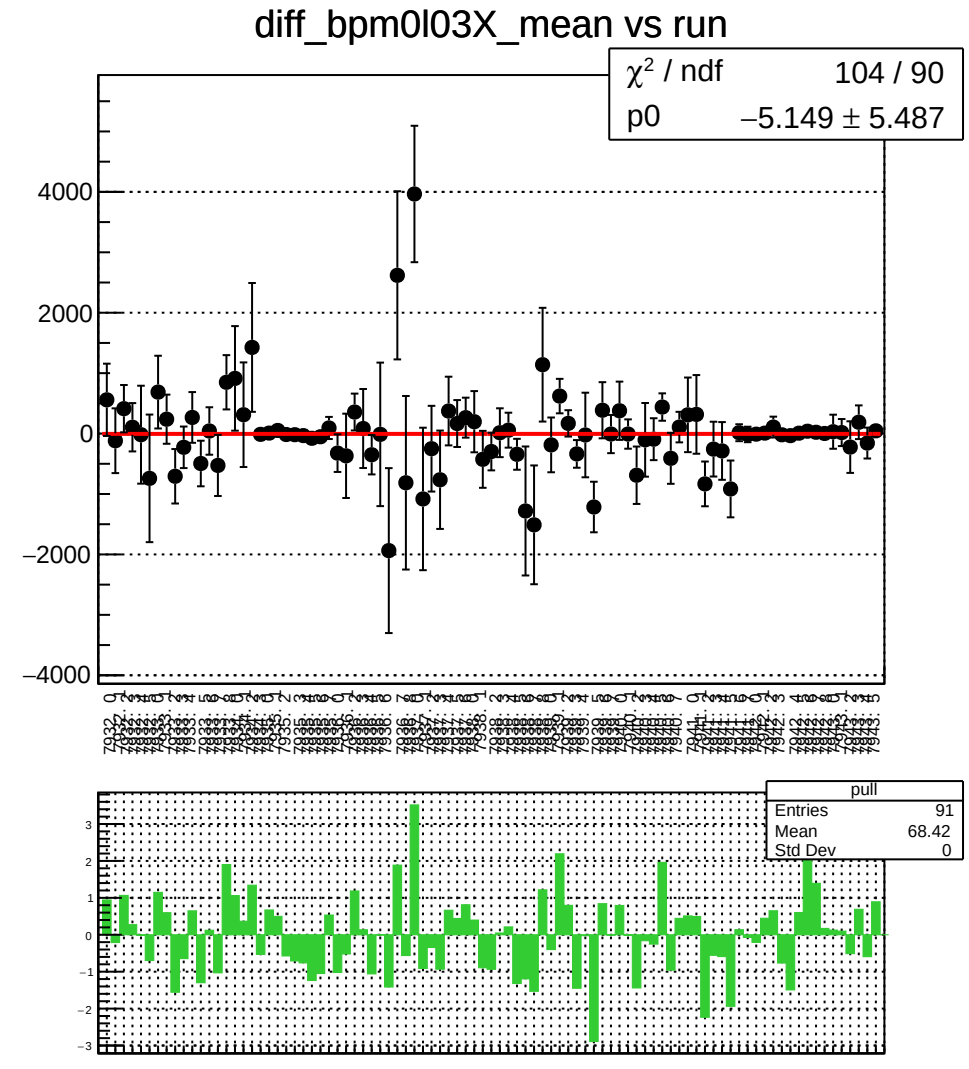

pull1D
Entries 91
Mean −0.0009611
Std Dev 1.028

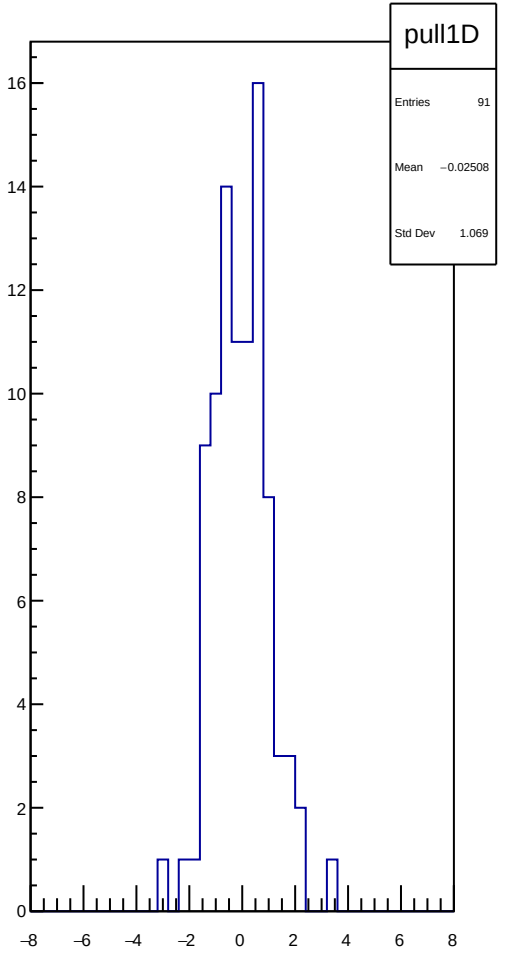

diff_bpm0l02X_rms vs run
χ² / ndf 952.7 / 90
p0 9698 ± 7.337
10400
10200
10000
9800
9600
9400
9200
9000

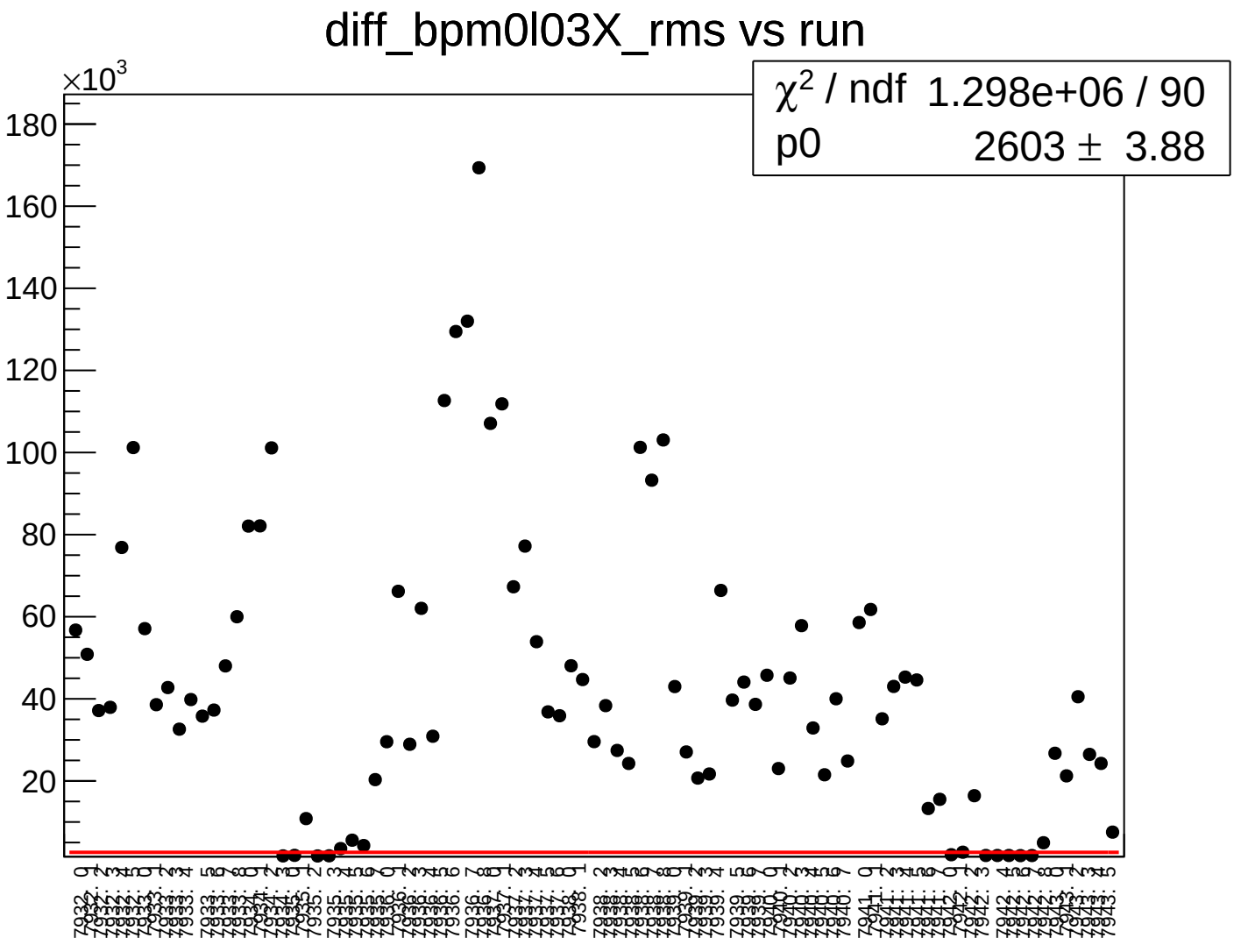

diff_bpm0l02Y_mean vs run
χ^2 / ndf 79.1 / 90
p0 32.16 ± 3.378
150
100
50
0
−50
pull
Entries 91
Mean 345.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

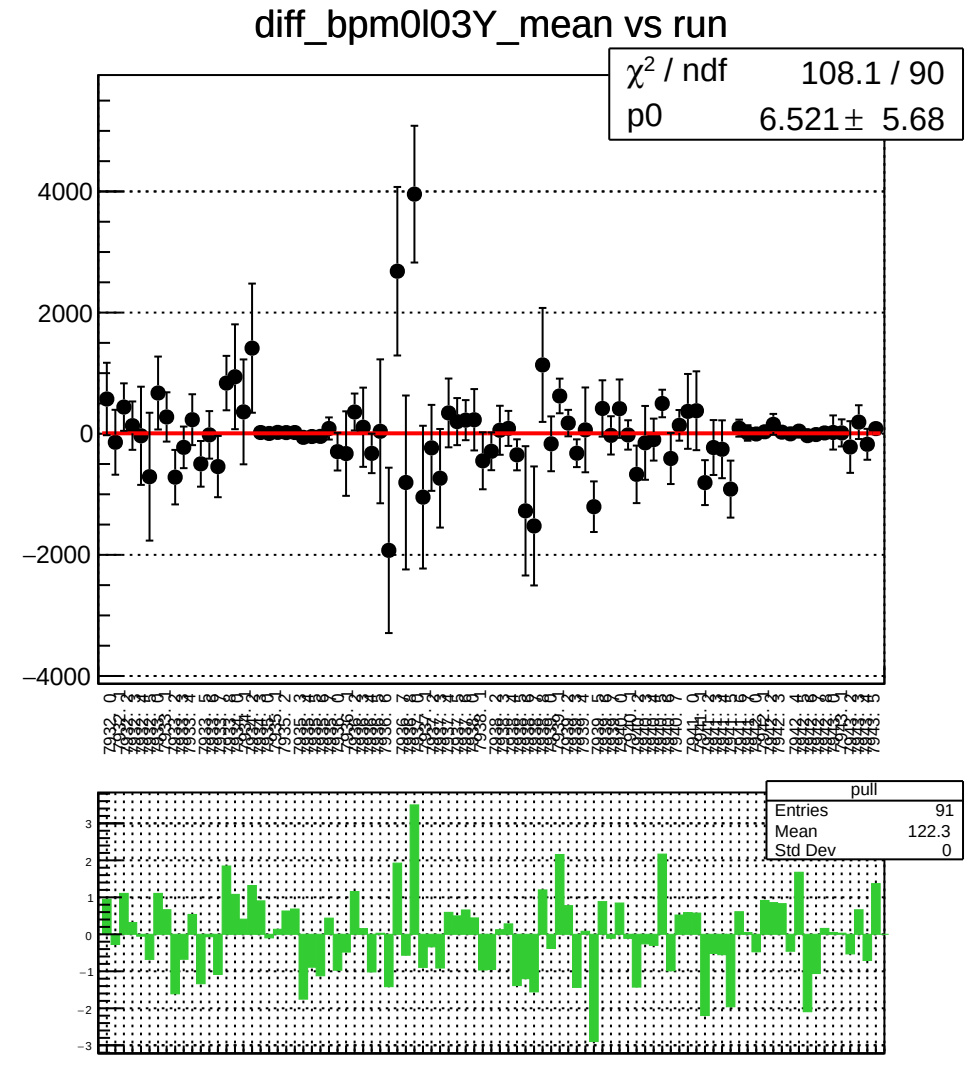

pull1D
Entries 91
Mean 0.01139
Std Dev 0.9322
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

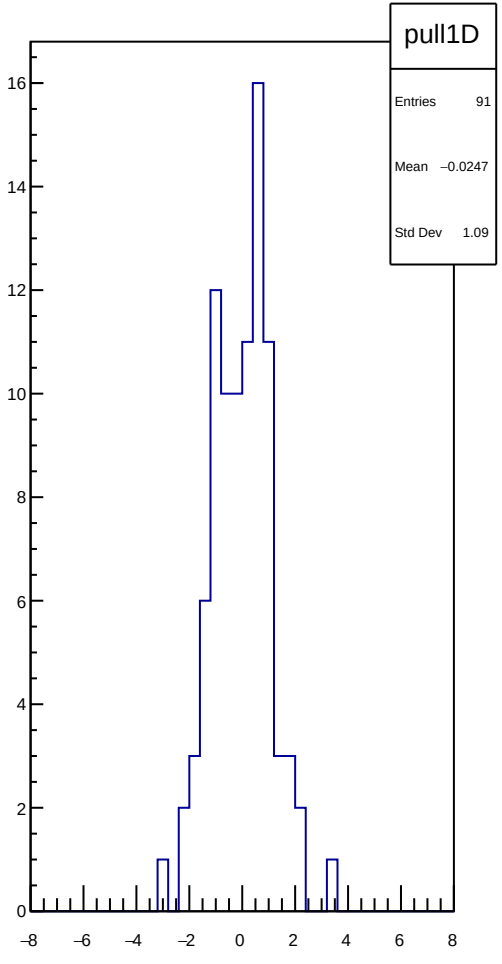

diff_bpm0l02Y_rms vs run
χ² / ndf 7433 / 90
p0 3152 ± 2.389
3800
3600
3400
3200
3000
2800
2600

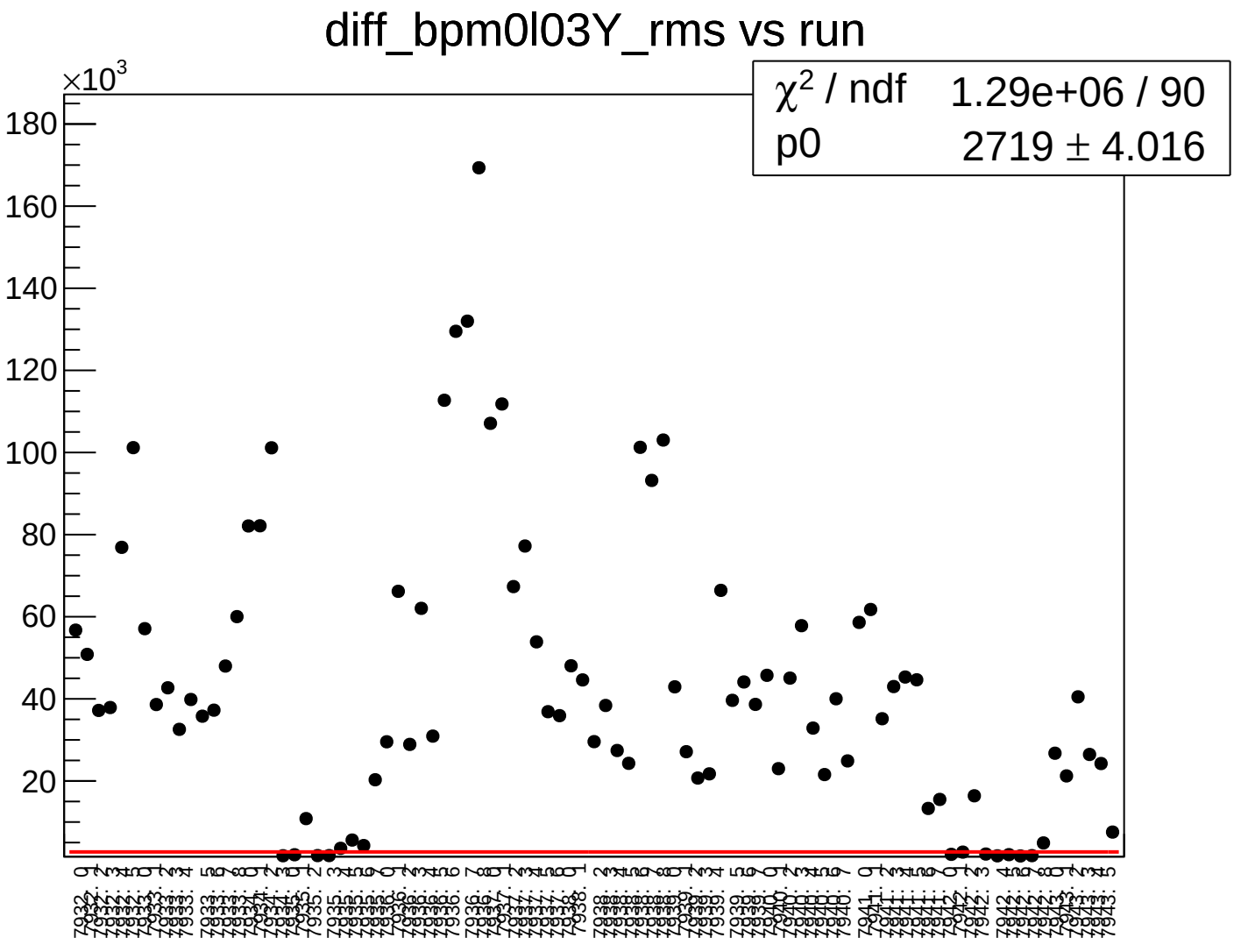

diff_bpm0l03X_mean vs run
χ² / ndf 104 / 90
p0 −5.149 ± 5.487
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 68.42
Std Dev 0
3
2
1
0
−1
−2
−3

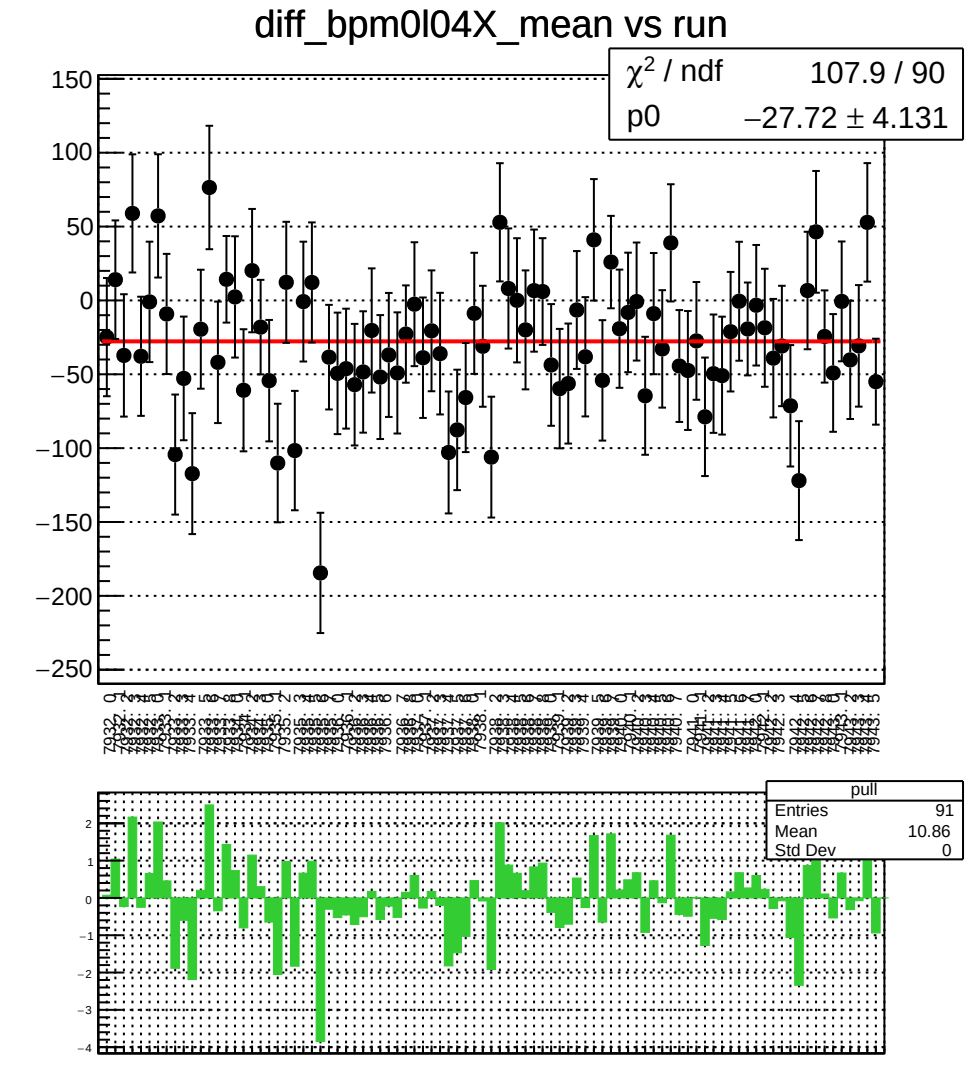

pull1D
Entries 91
Mean −0.02508
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

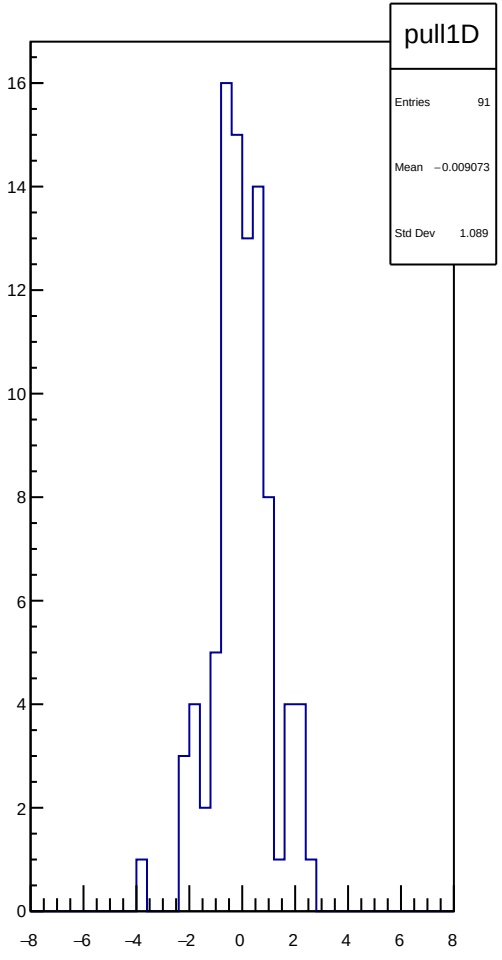

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.298e+06 / 90
p0 2603 ± 3.88
180
160
140
120
100
80
60
40
20

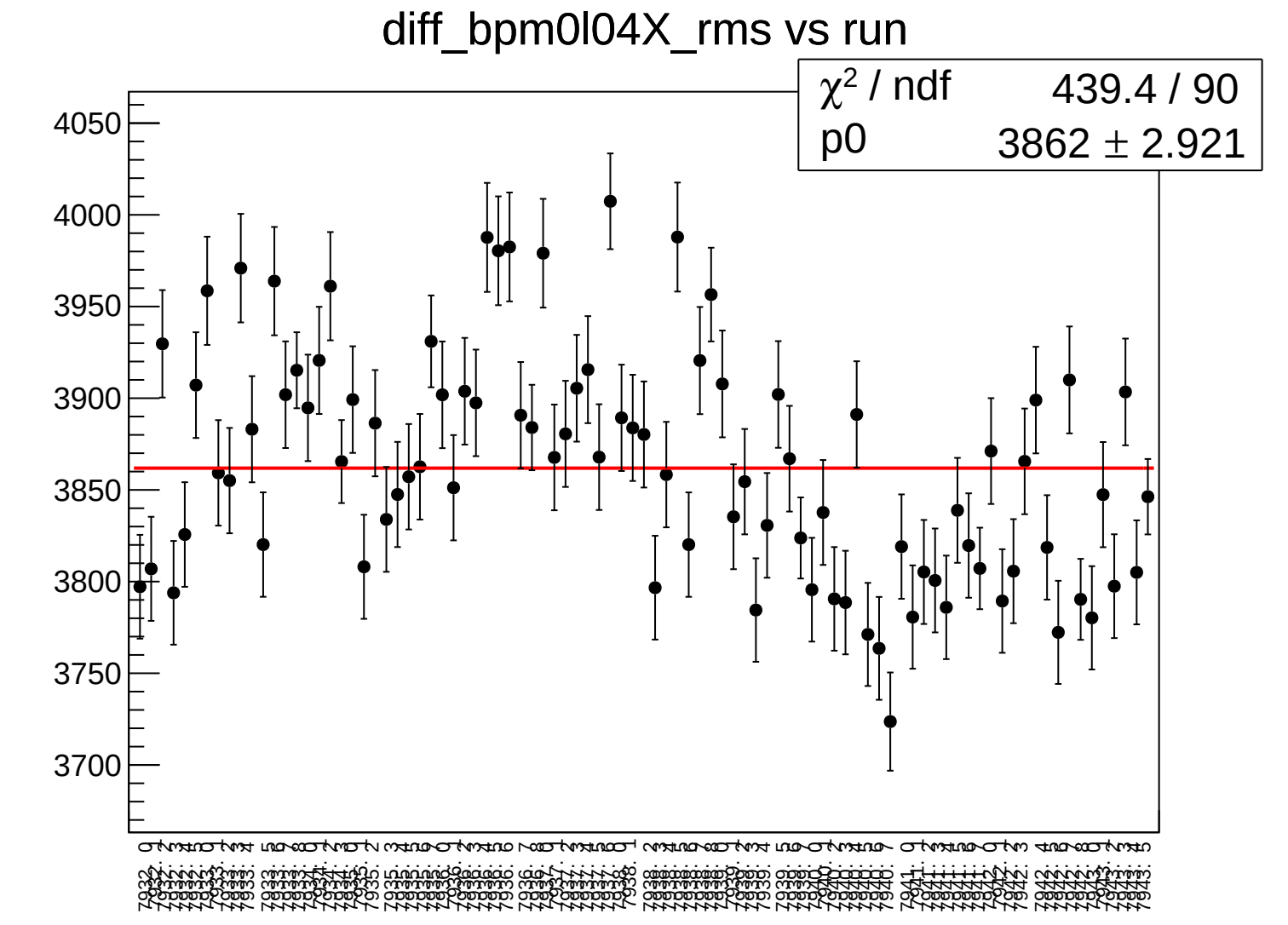

diff_bpm0l03Y_mean vs run
χ² / ndf 108.1 / 90
p0 6.521 ± 5.68
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 122.3
Std Dev 0
3
2
1
0
−1
−2
−3

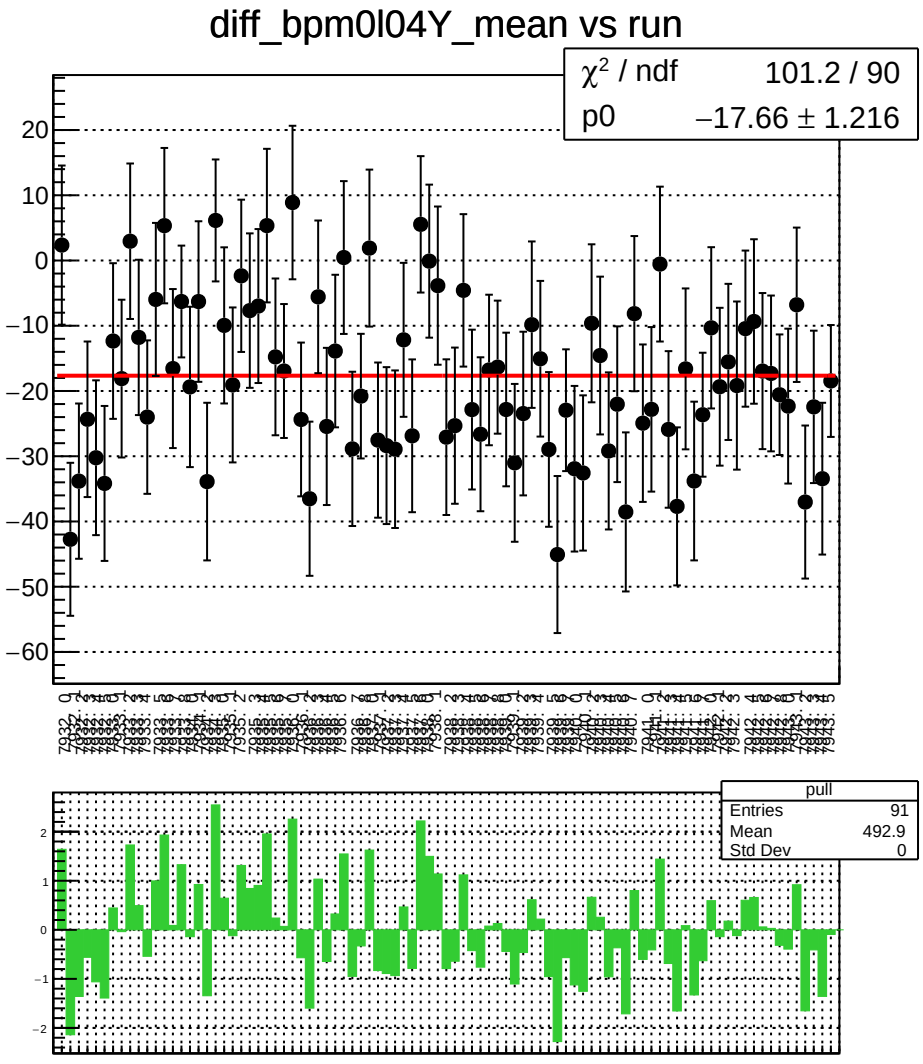

pull1D
Entries 91
Mean −0.0247
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

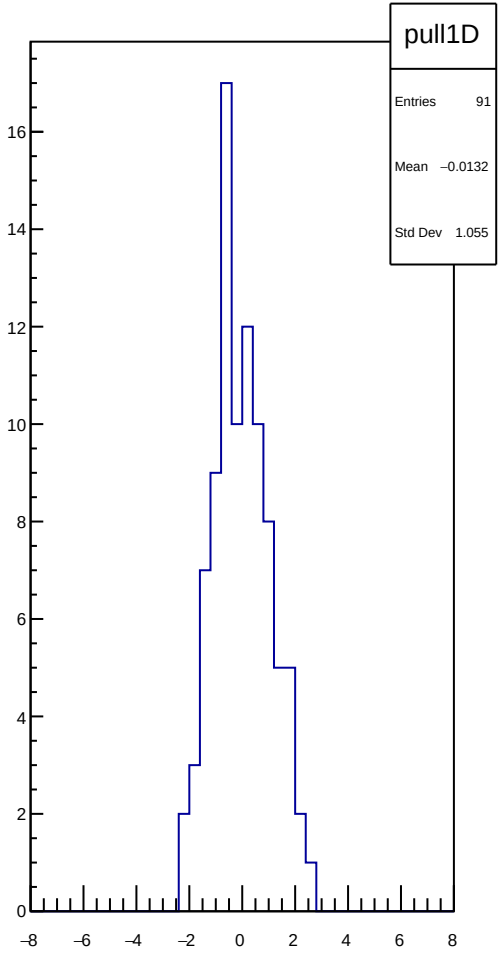

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.29e+06 / 90
p0 2719 ± 4.016
180
160
140
120
100
80
60
40
20

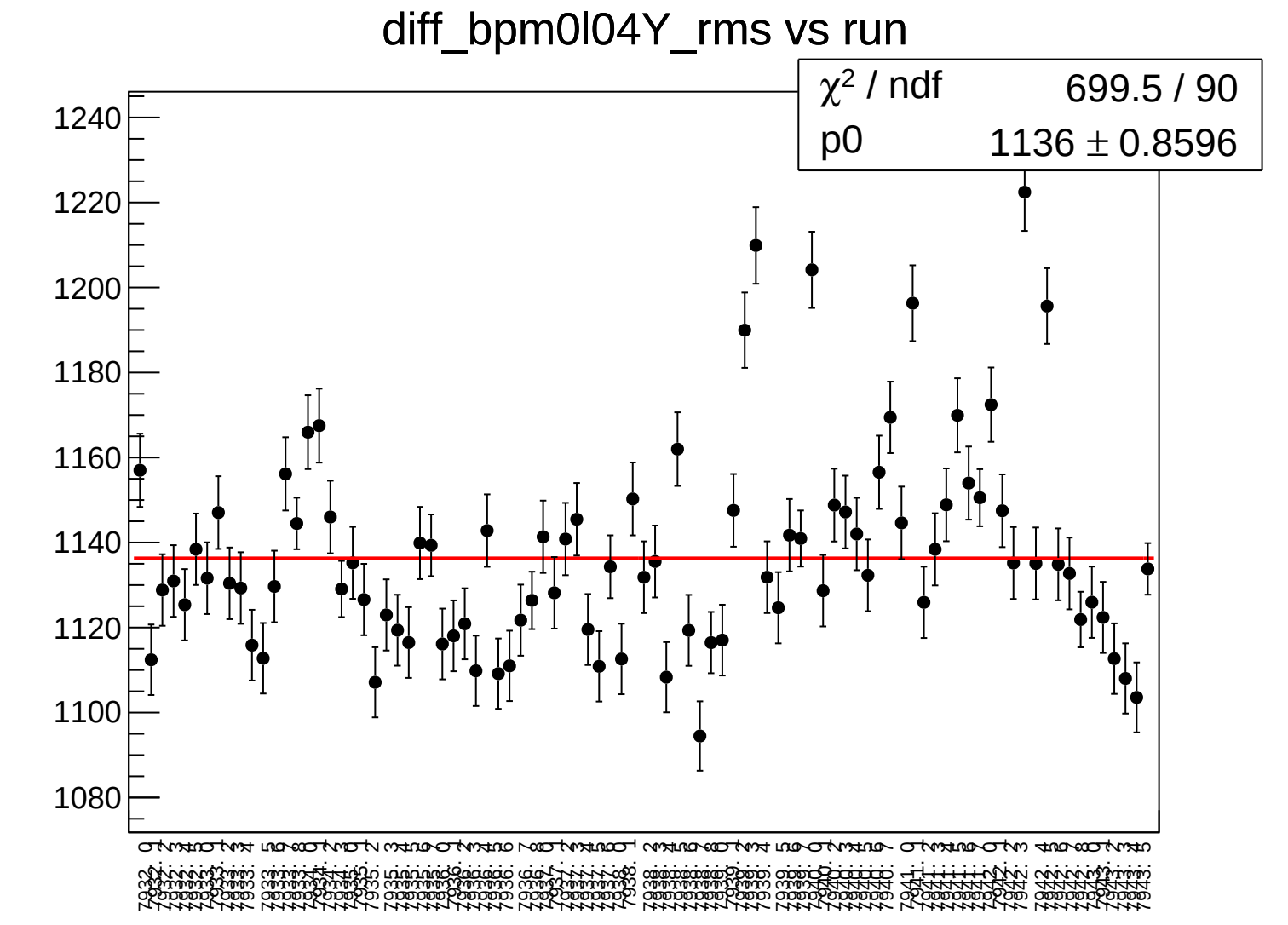

diff_bpm0l04X_mean vs run
χ² / ndf 107.9 / 90
p0 −27.72 ± 4.131
pull
Entries 91
Mean 10.86
Std Dev 0

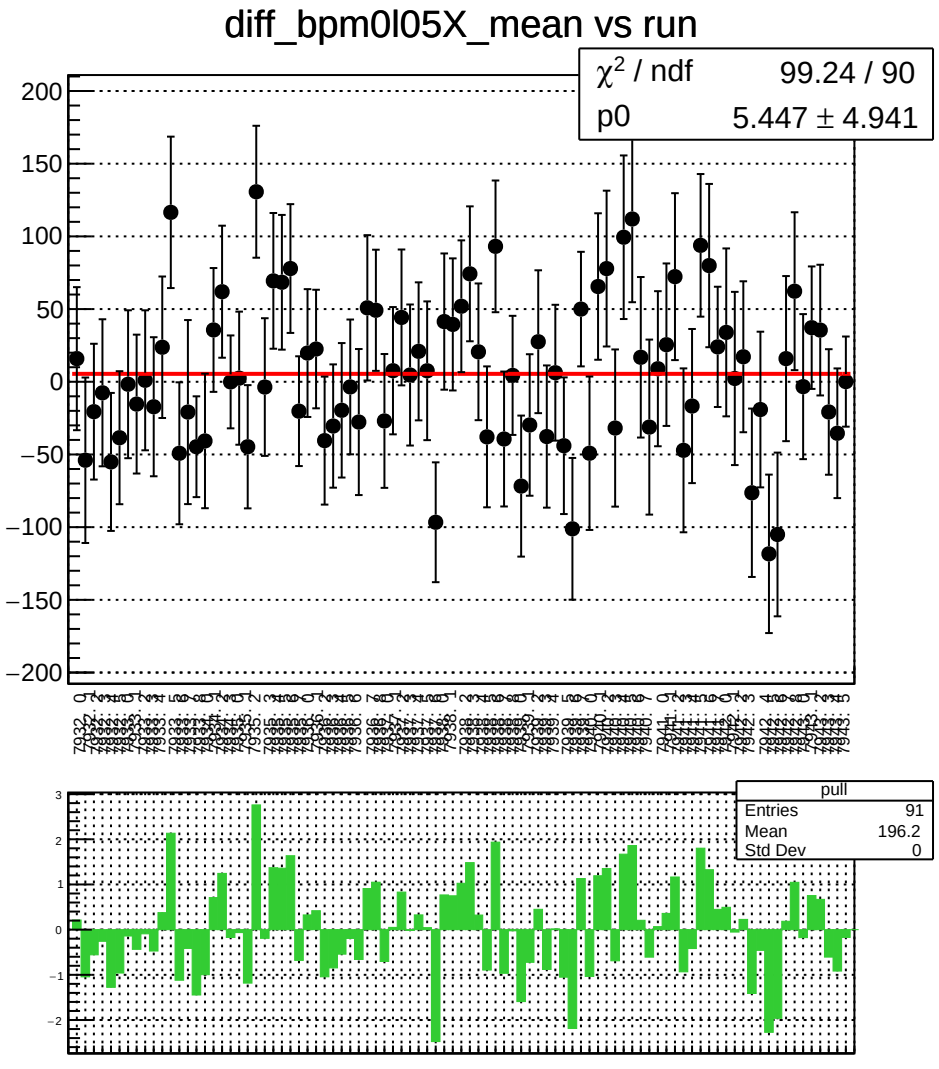

pull1D
Entries 91
Mean −0.009073
Std Dev 1.089

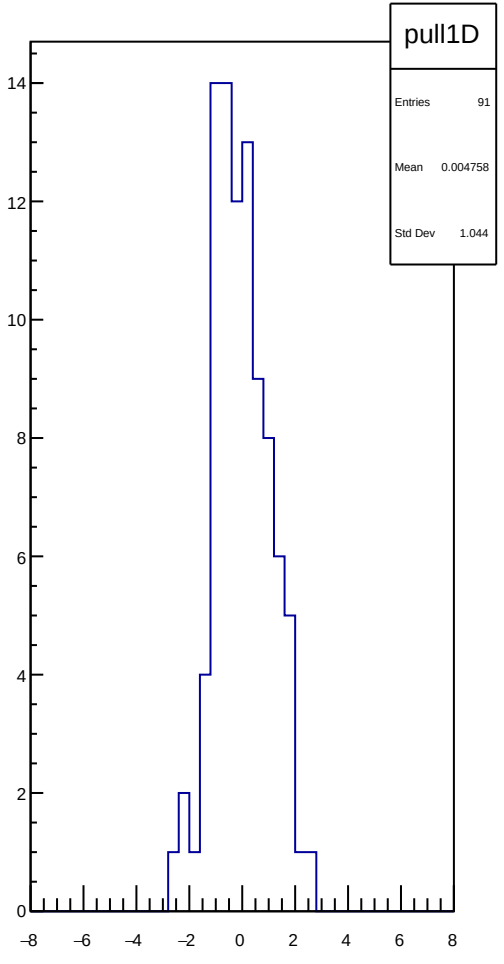

diff_bpm0l04X_rms vs run
χ² / ndf 439.4 / 90
p0 3862 ± 2.921
4050
4000
3950
3900
3850
3800
3750
3700

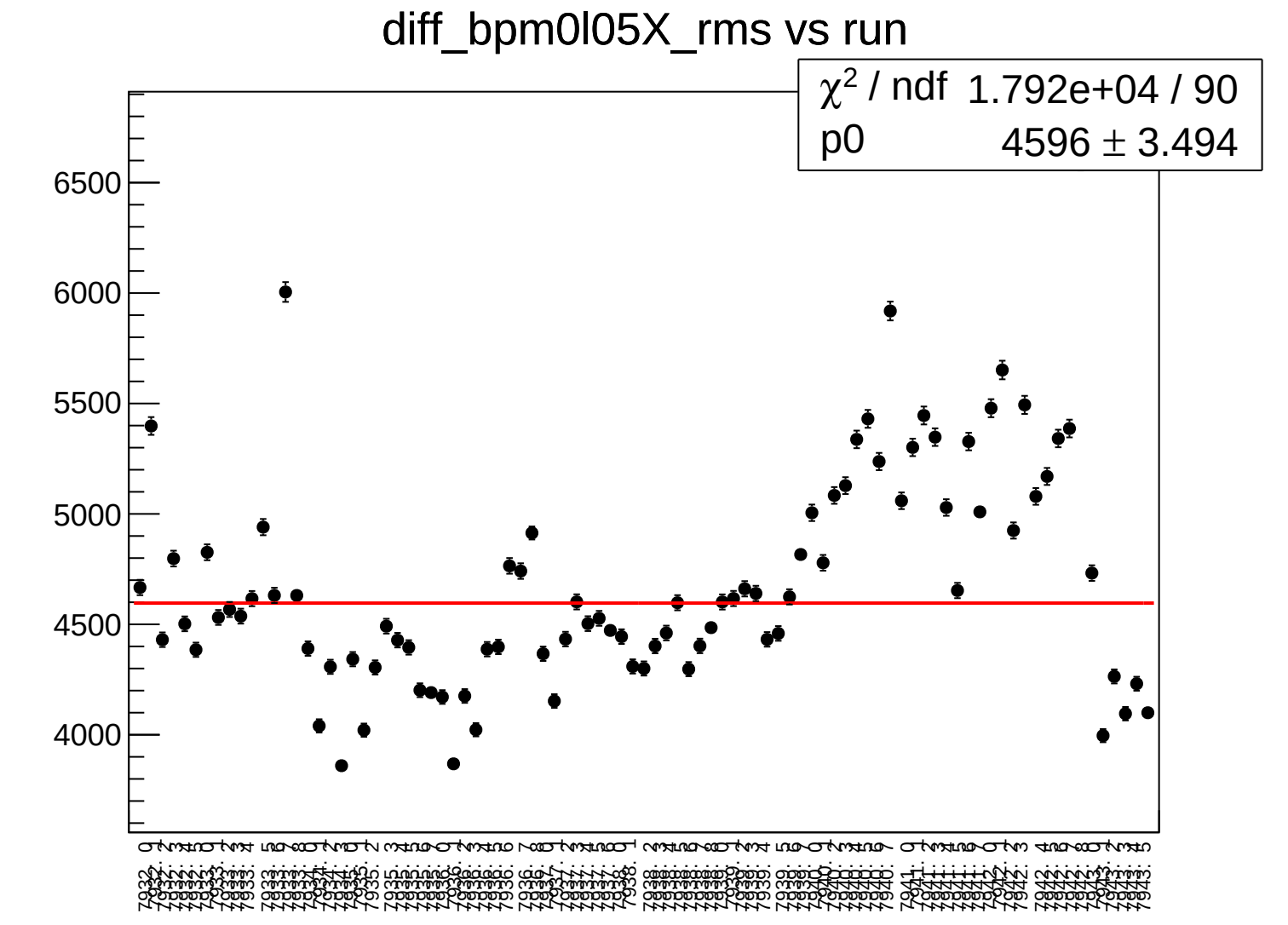

diff_bpm0l04Y_mean vs run
χ² / ndf 101.2 / 90
p0 −17.66 ± 1.216
pull
Entries 91
Mean 492.9
Std Dev 0

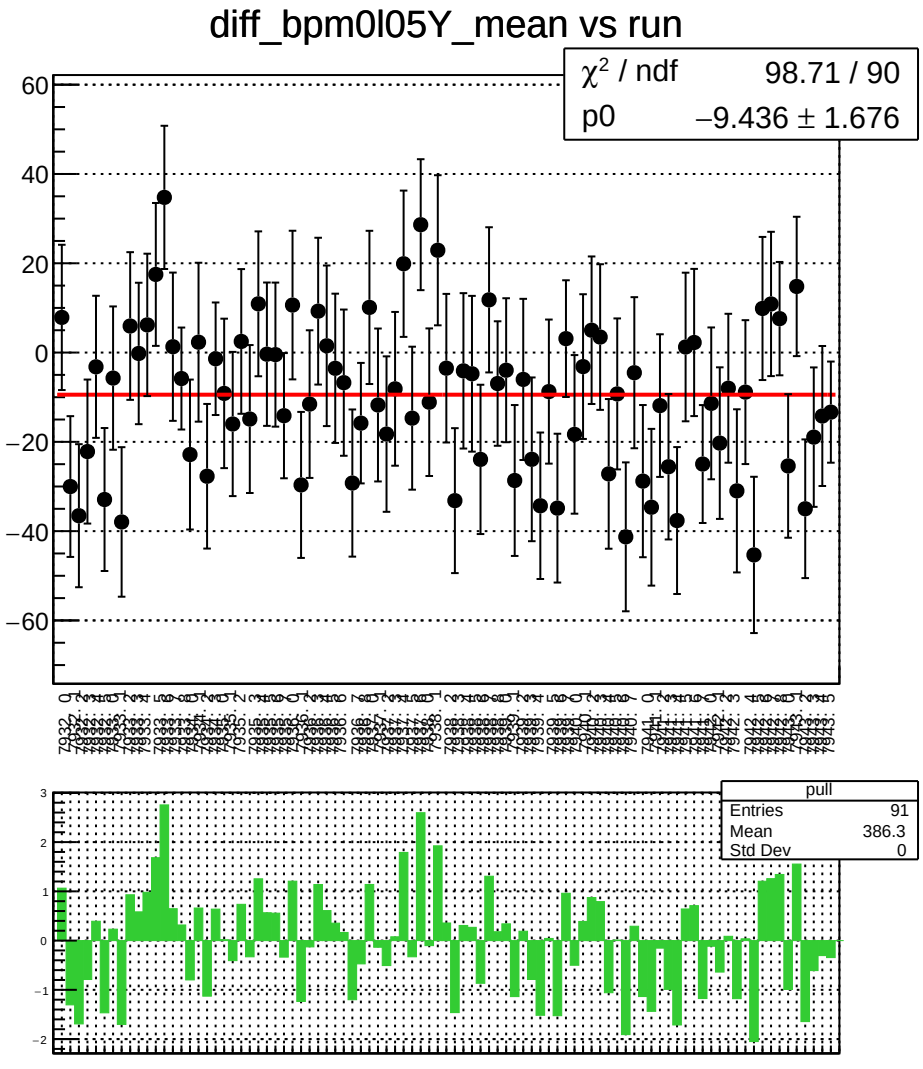

pull1D
Entries 91
Mean −0.0132
Std Dev 1.055

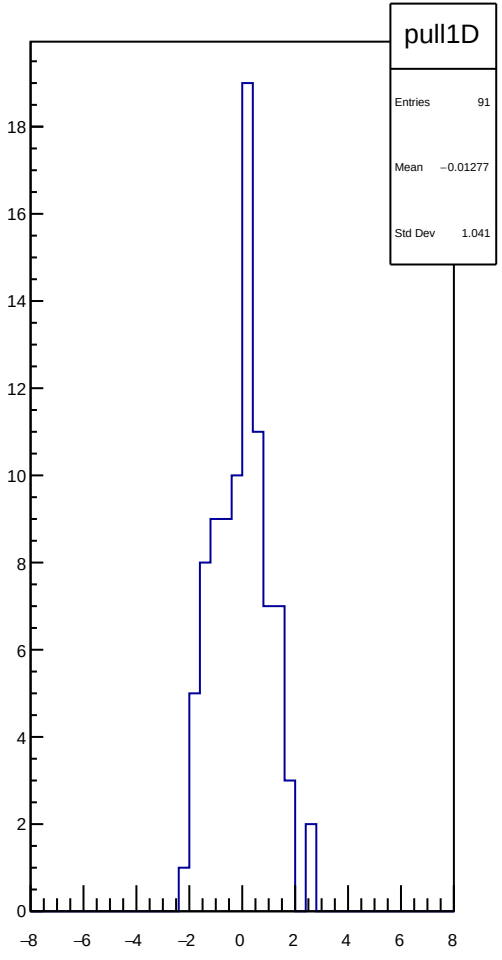

diff_bpm0l04Y_rms vs run
χ² / ndf 699.5 / 90
p0 1136 ± 0.8596
1240
1220
1200
1180
1160
1140
1120
1100
1080

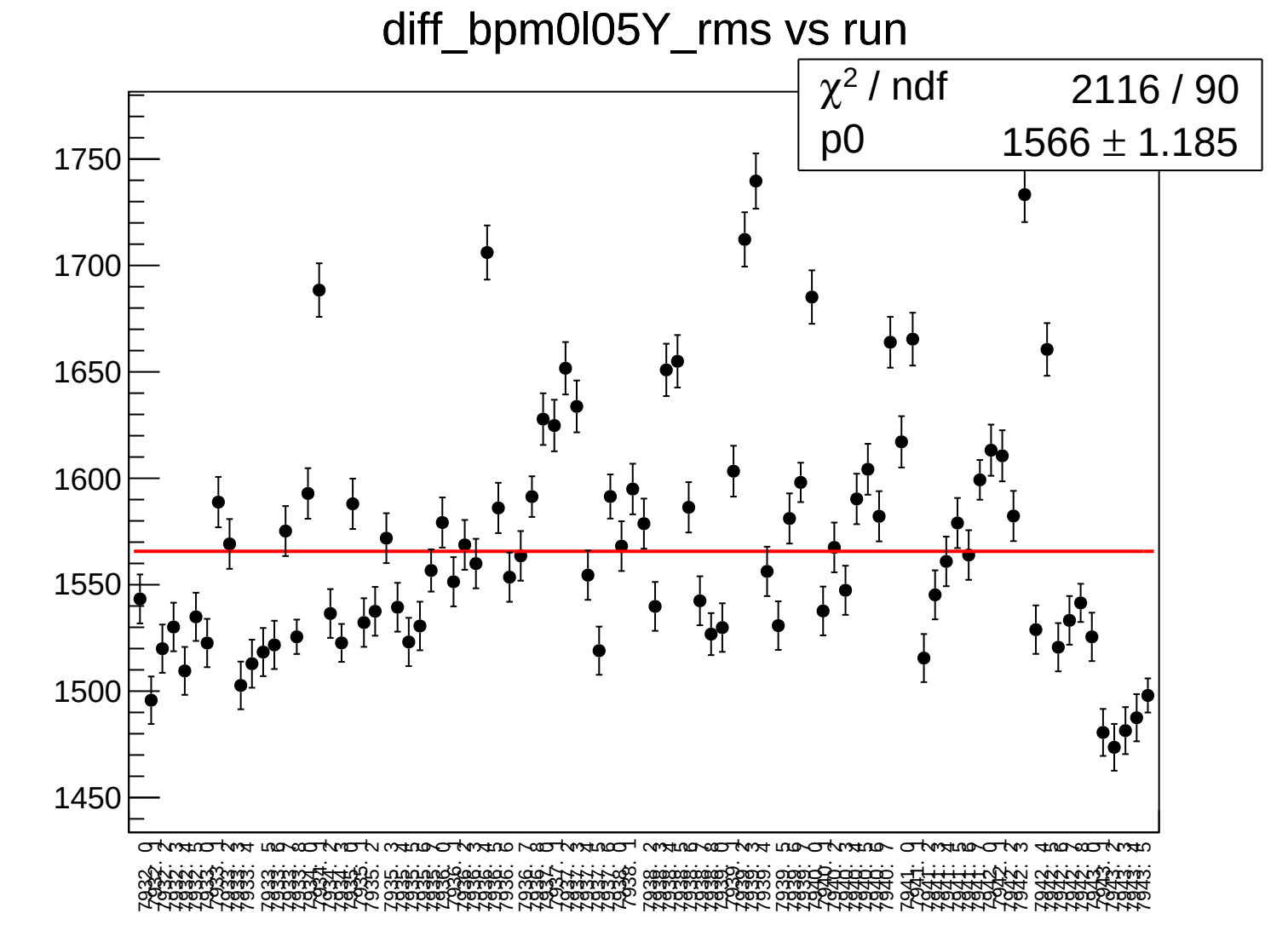

diff_bpm0l05X_mean vs run
χ^2 / ndf 99.24 / 90
p0 5.447 ± 4.941
pull
Entries 91
Mean 196.2
Std Dev 0

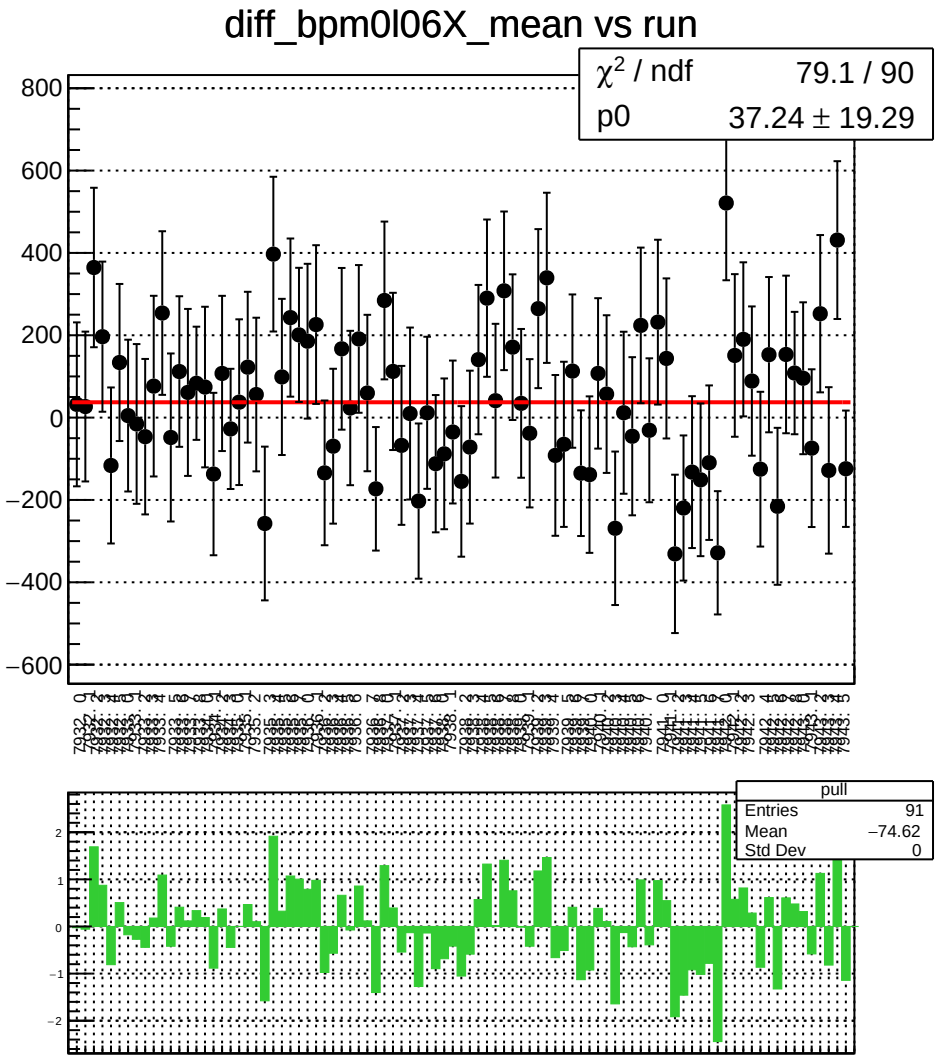

pull1D
Entries 91
Mean 0.004758
Std Dev 1.044

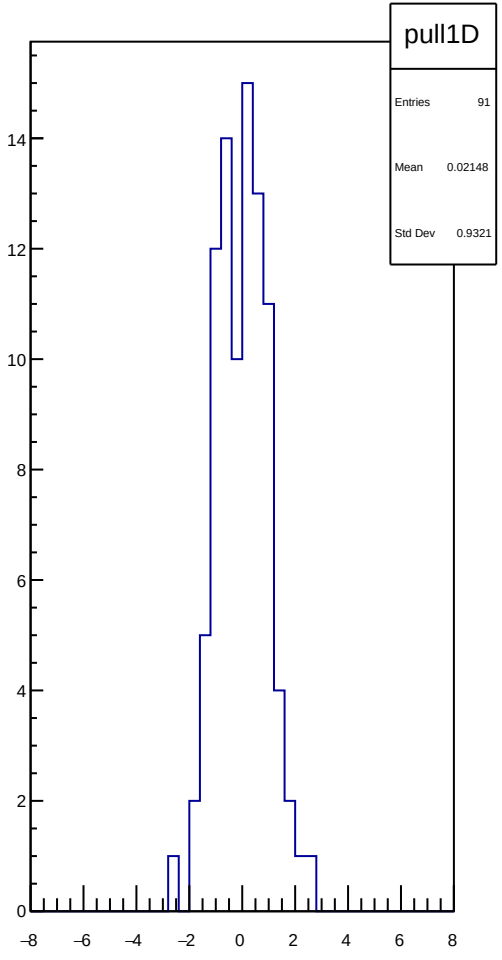

diff_bpm0l05X_rms vs run
χ² / ndf 1.792e+04 / 90
p0 4596 ± 3.494
6500
6000
5500
5000
4500
4000

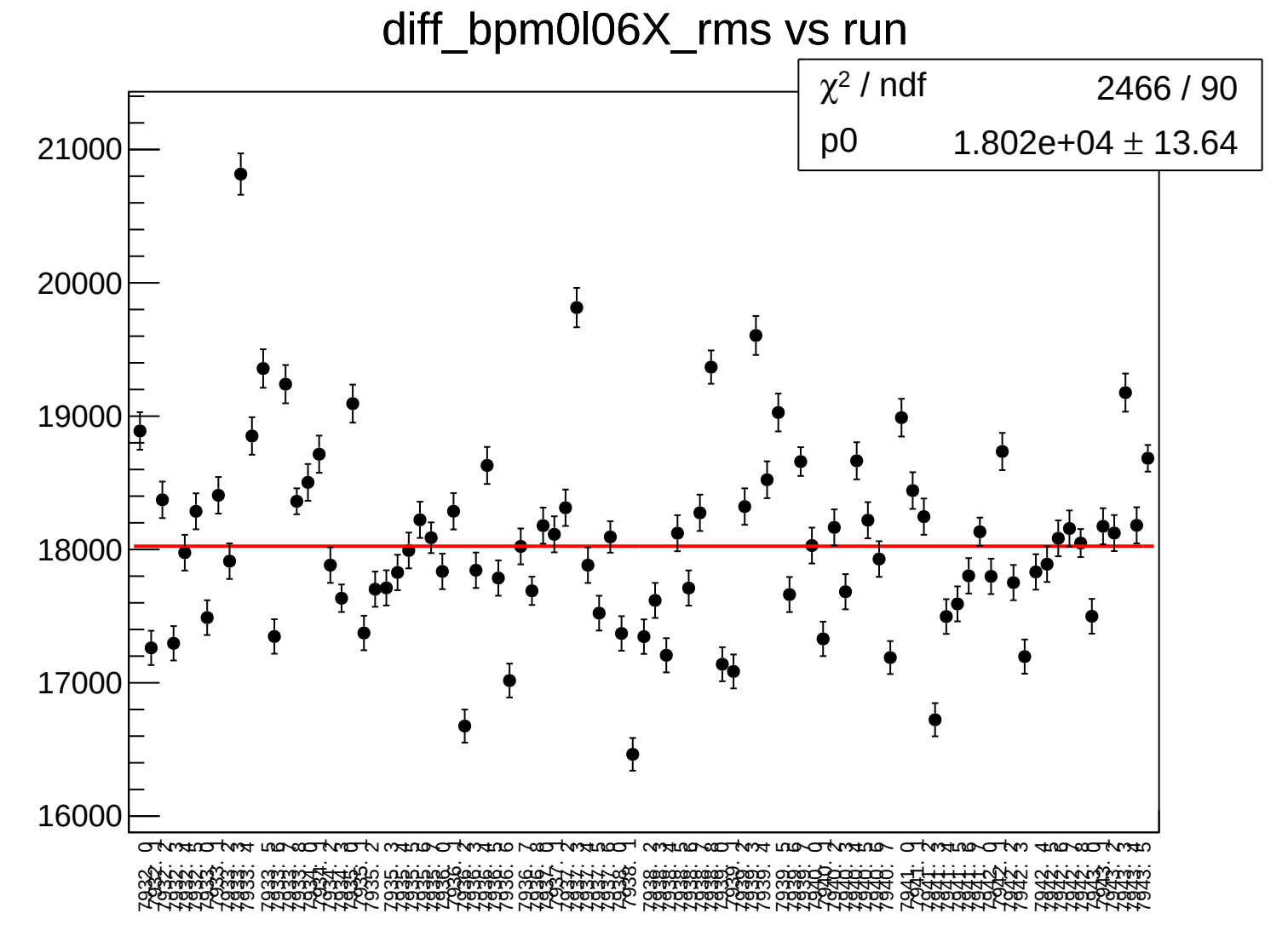

diff_bpm0l05Y_mean vs run
χ² / ndf 98.71 / 90
p0 −9.436 ± 1.676
pull
Entries 91
Mean 386.3
Std Dev 0

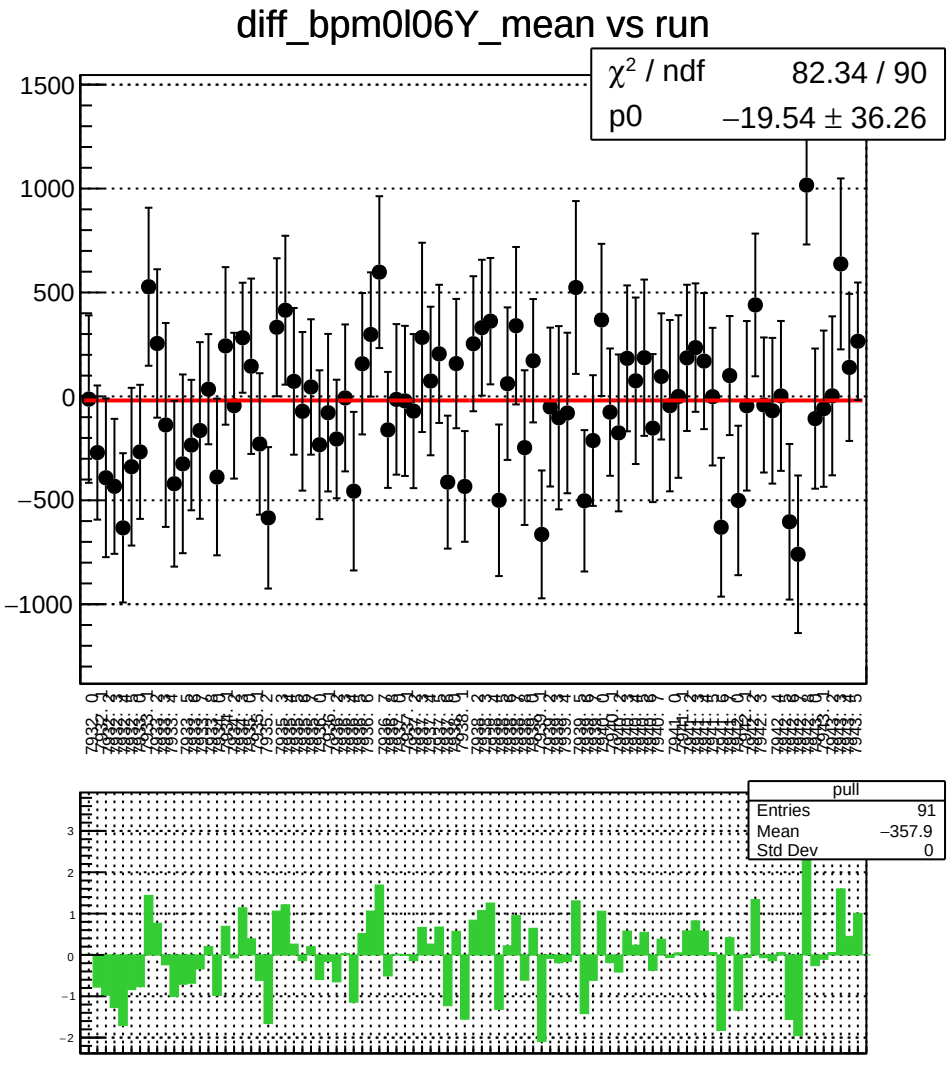

pull1D
Entries 91
Mean −0.01277
Std Dev 1.041

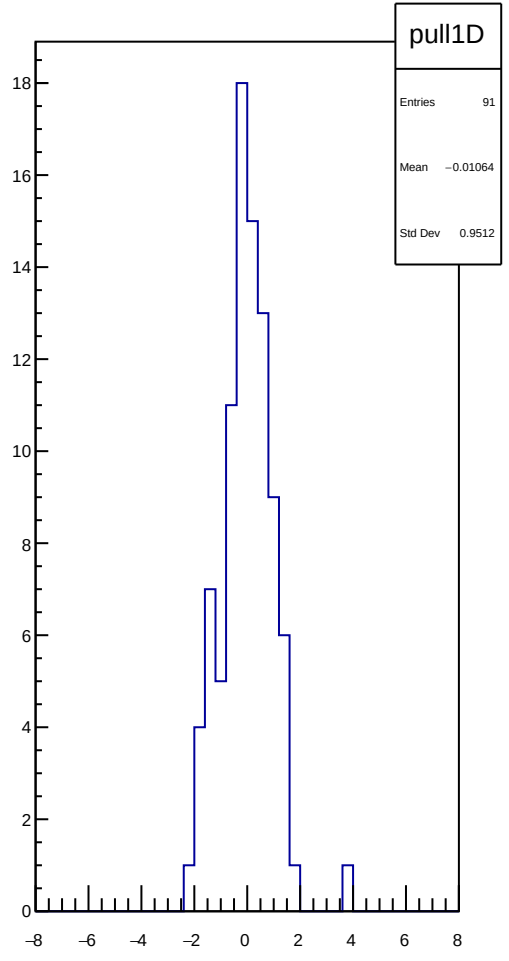

diff_bpm0l05Y_rms vs run
χ² / ndf 2116 / 90
p0 1566 ± 1.185
1750
1700
1650
1600
1550
1500
1450

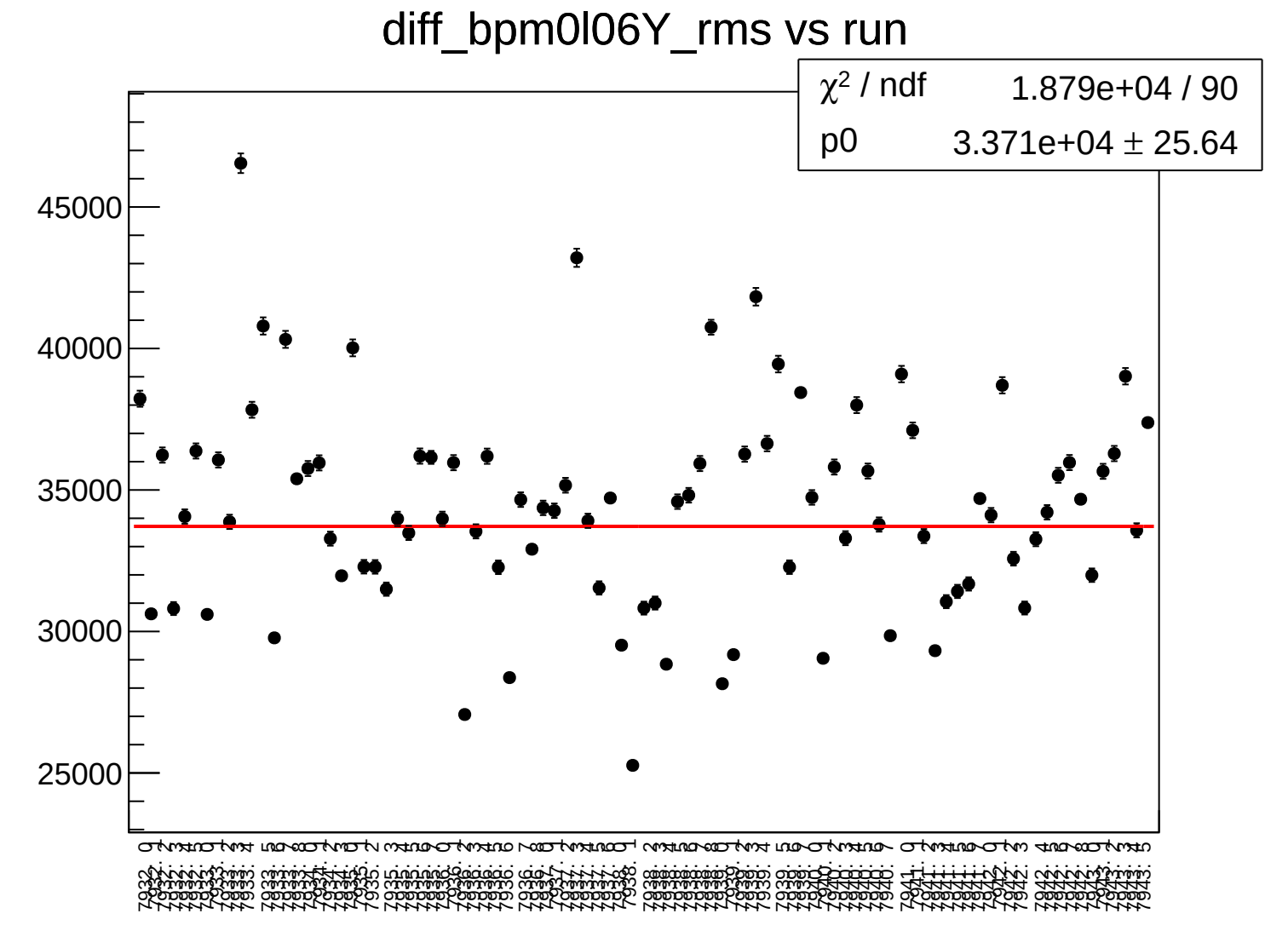

diff_bpm0l06X_mean vs run
χ^2 / ndf 79.1 / 90
p0 37.24 ± 19.29
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −74.62
Std Dev 0
2
1
0
−1
−2

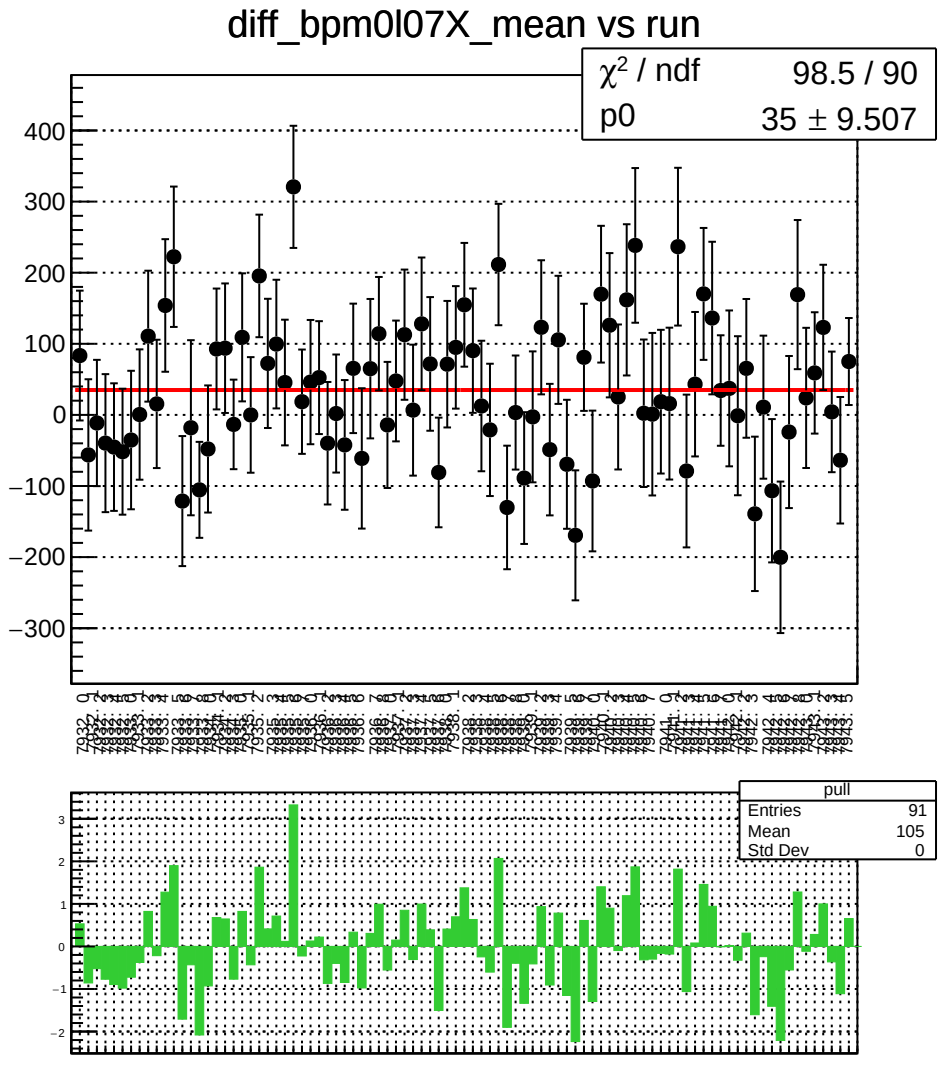

pull1D
Entries 91
Mean 0.02148
Std Dev 0.9321
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

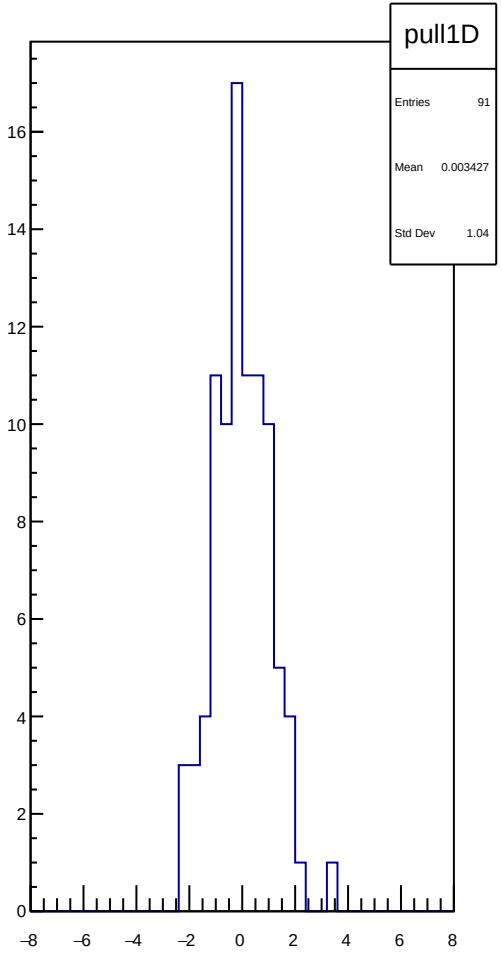

diff_bpm0l06X_rms vs run
χ² / ndf 2466 / 90
p0 1.802e+04 ± 13.64
21000
20000
19000
18000
17000
16000

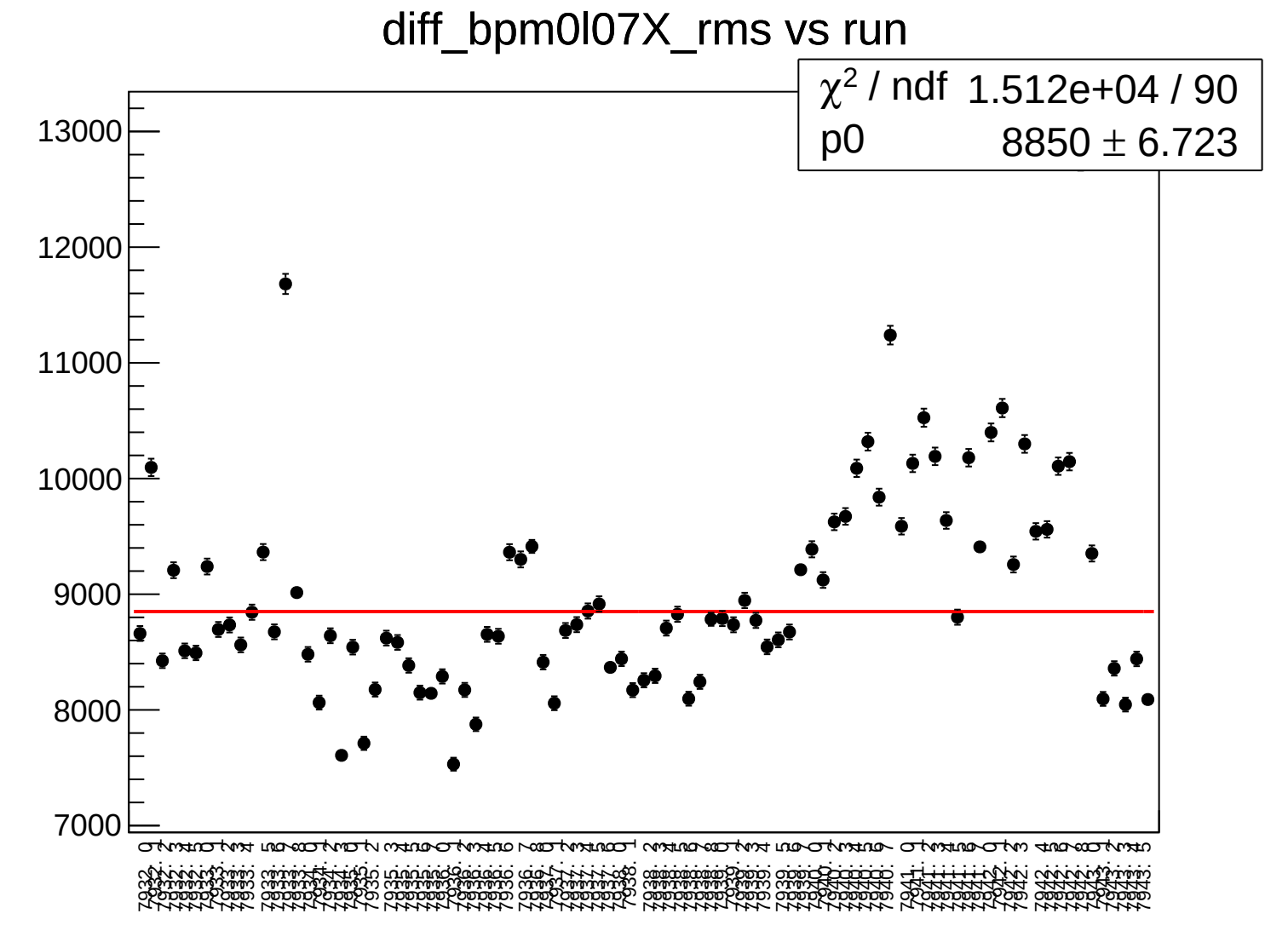

diff_bpm0l06Y_mean vs run
χ² / ndf 82.34 / 90
p0 −19.54 ± 36.26
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean −357.9
Std Dev 0
3
2
1
0
−1
−2

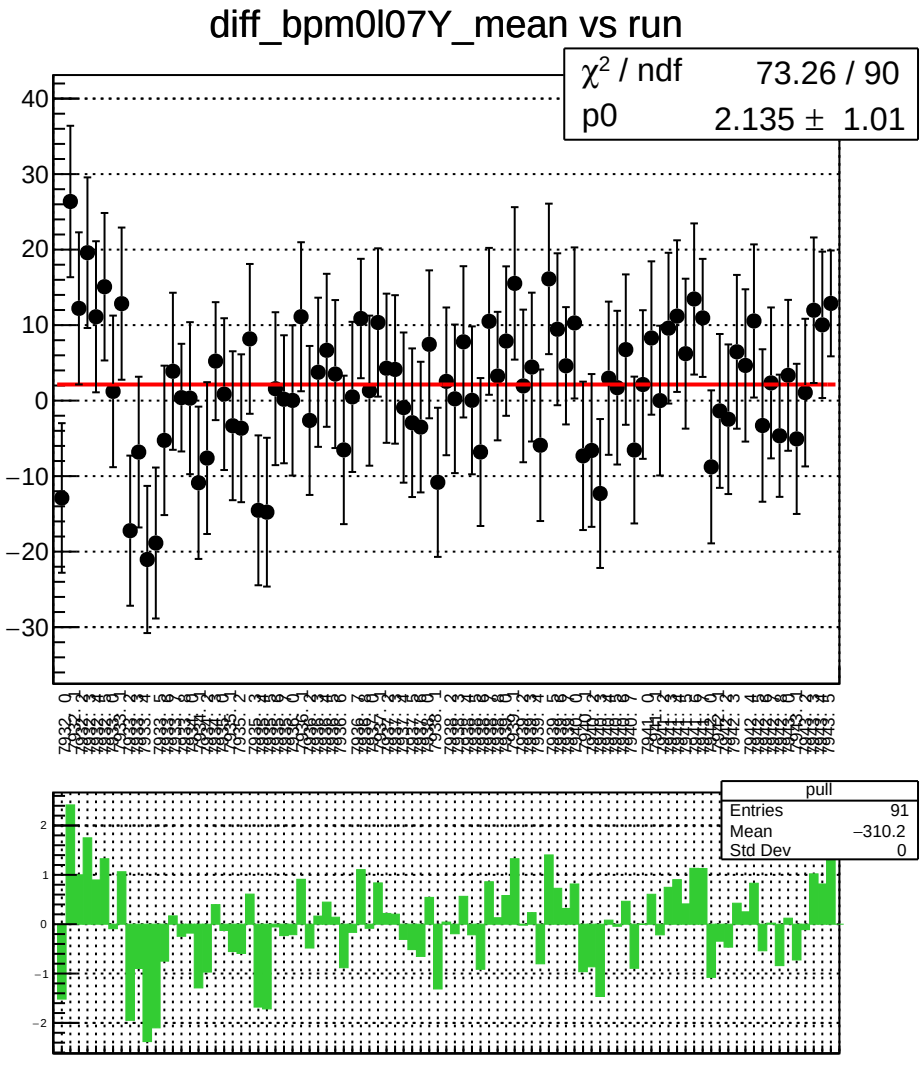

pull1D
Entries 91
Mean −0.01064
Std Dev 0.9512
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

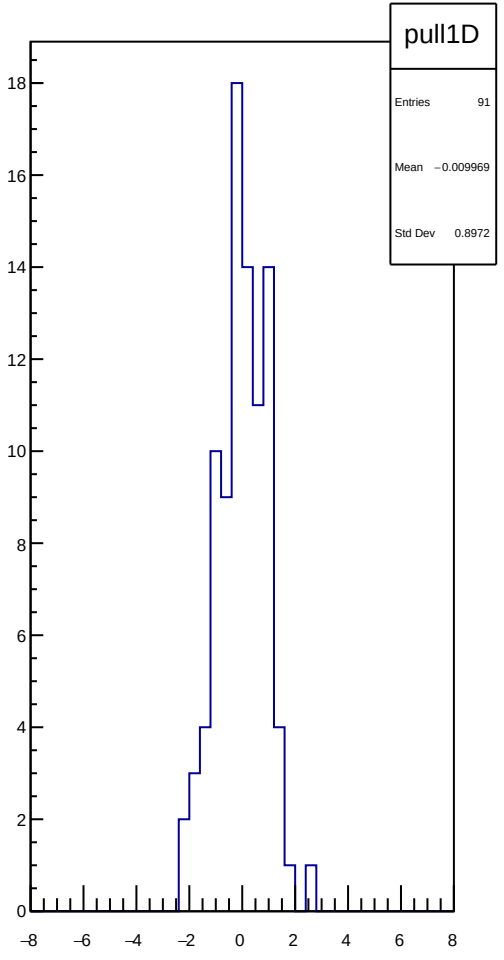

diff_bpm0l06Y_rms vs run
χ² / ndf 1.879e+04 / 90
p0 3.371e+04 ± 25.64
45000
40000
35000
30000
25000

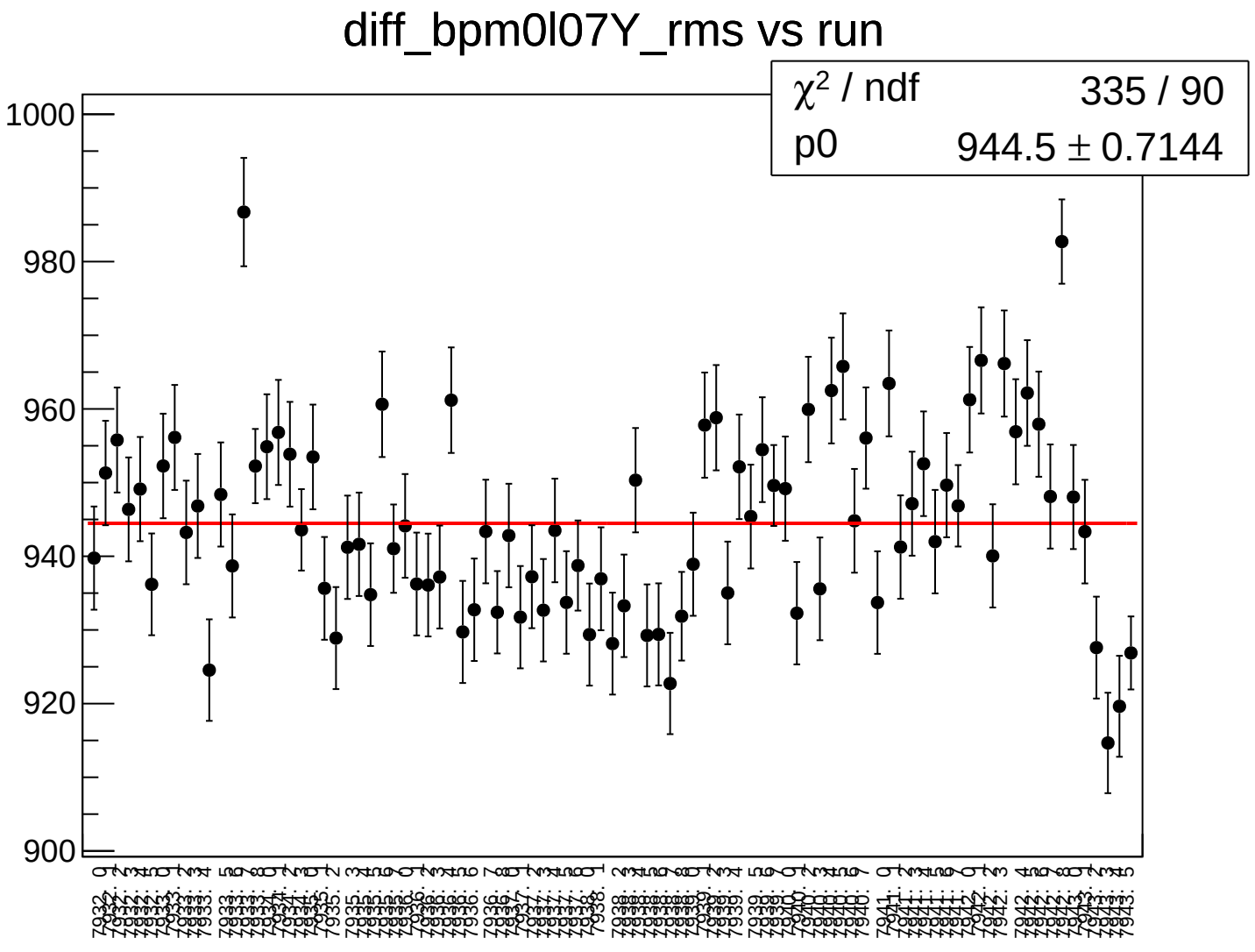

diff_bpm0l07X_mean vs run
χ² / ndf 98.5 / 90
p0 35 ± 9.507
pull
Entries 91
Mean 105
Std Dev 0

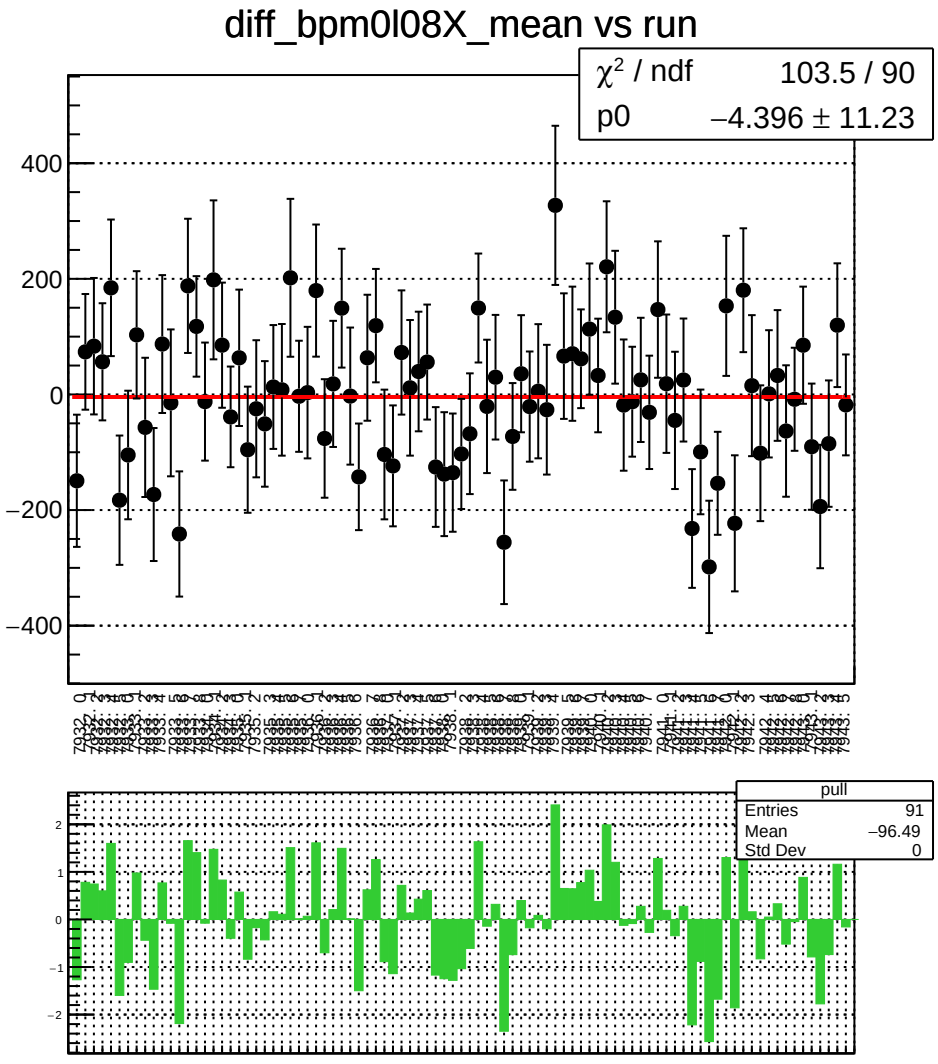

pull1D
Entries 91
Mean 0.003427
Std Dev 1.04

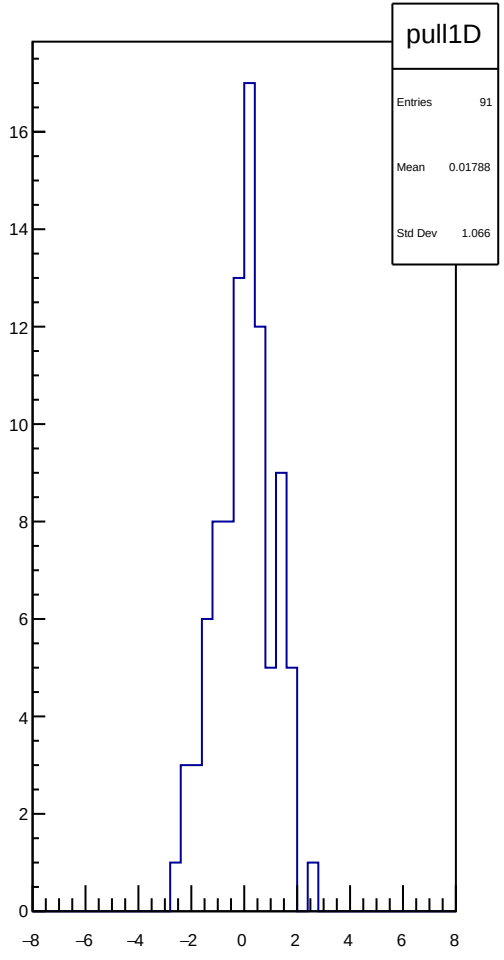

diff_bpm0l07X_rms vs run
χ² / ndf 1.512e+04 / 90
p0 8850 ± 6.723
13000
12000
11000
10000
9000
8000
7000

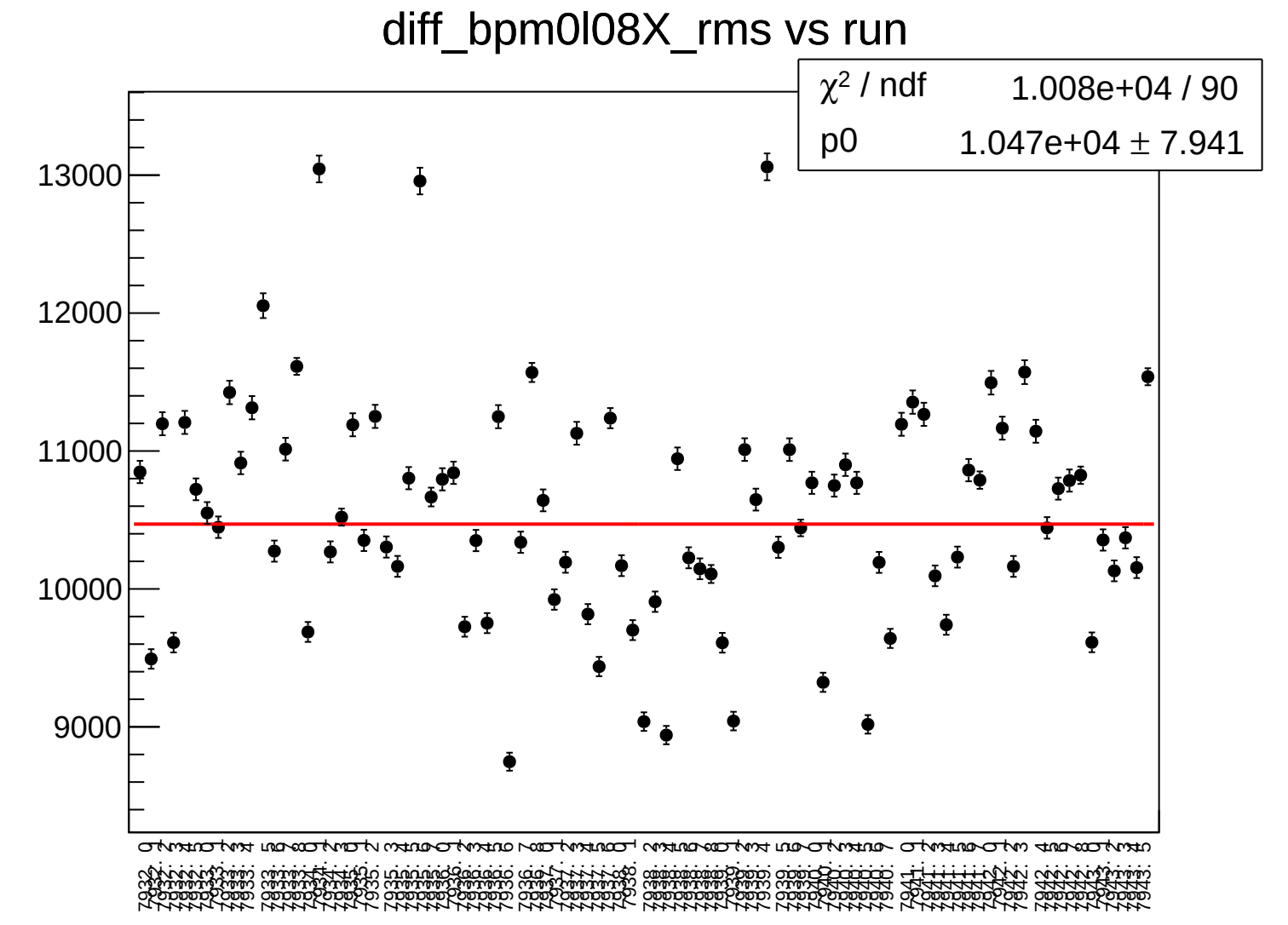

diff_bpm0l07Y_mean vs run
χ² / ndf 73.26 / 90
p0 2.135 ± 1.01
pull
Entries 91
Mean −310.2
Std Dev 0

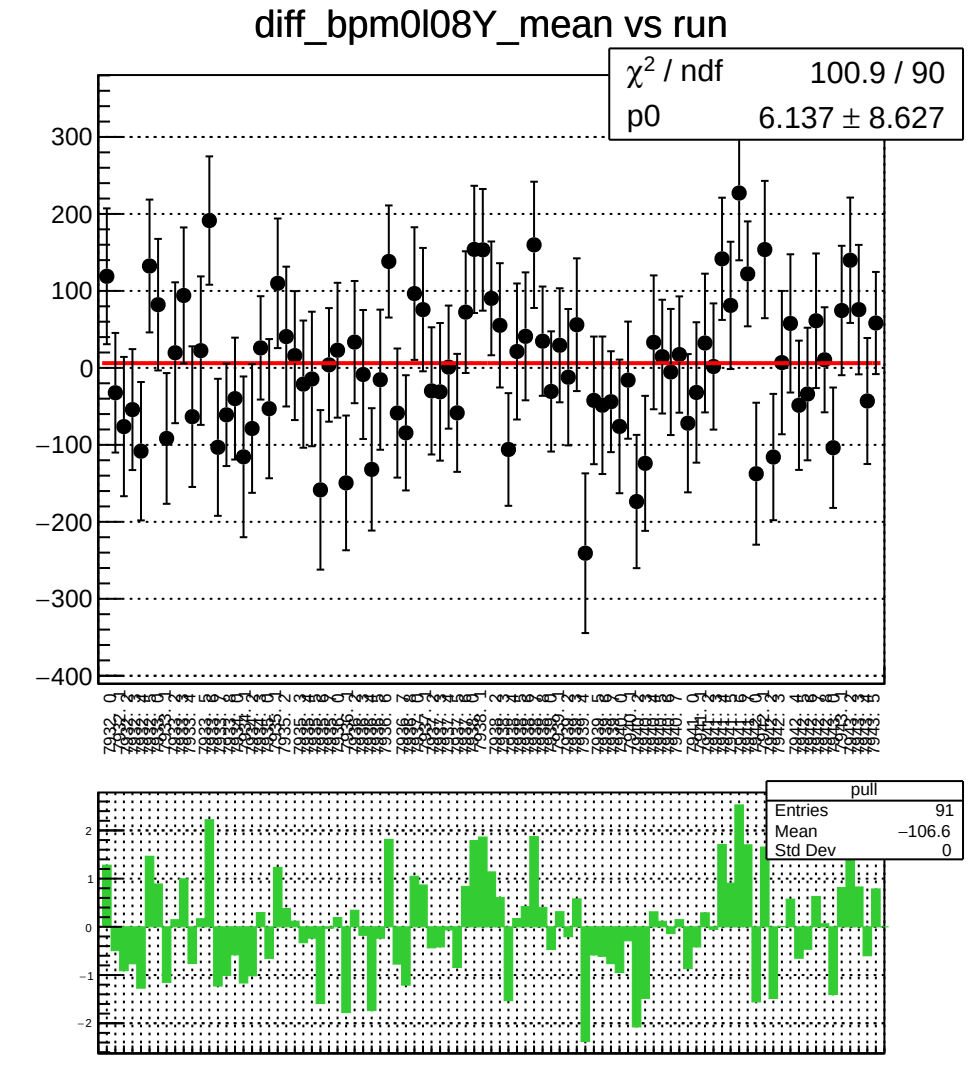

pull1D
Entries 91
Mean −0.009969
Std Dev 0.8972

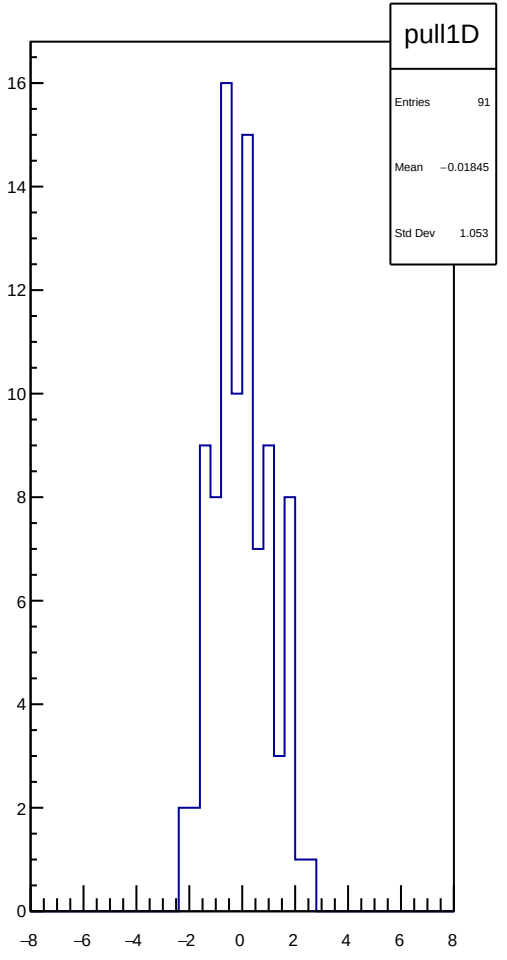

diff_bpm0l07Y_rms vs run
χ² / ndf 335 / 90
p0 944.5 ± 0.7144
1000
980
960
940
920
900

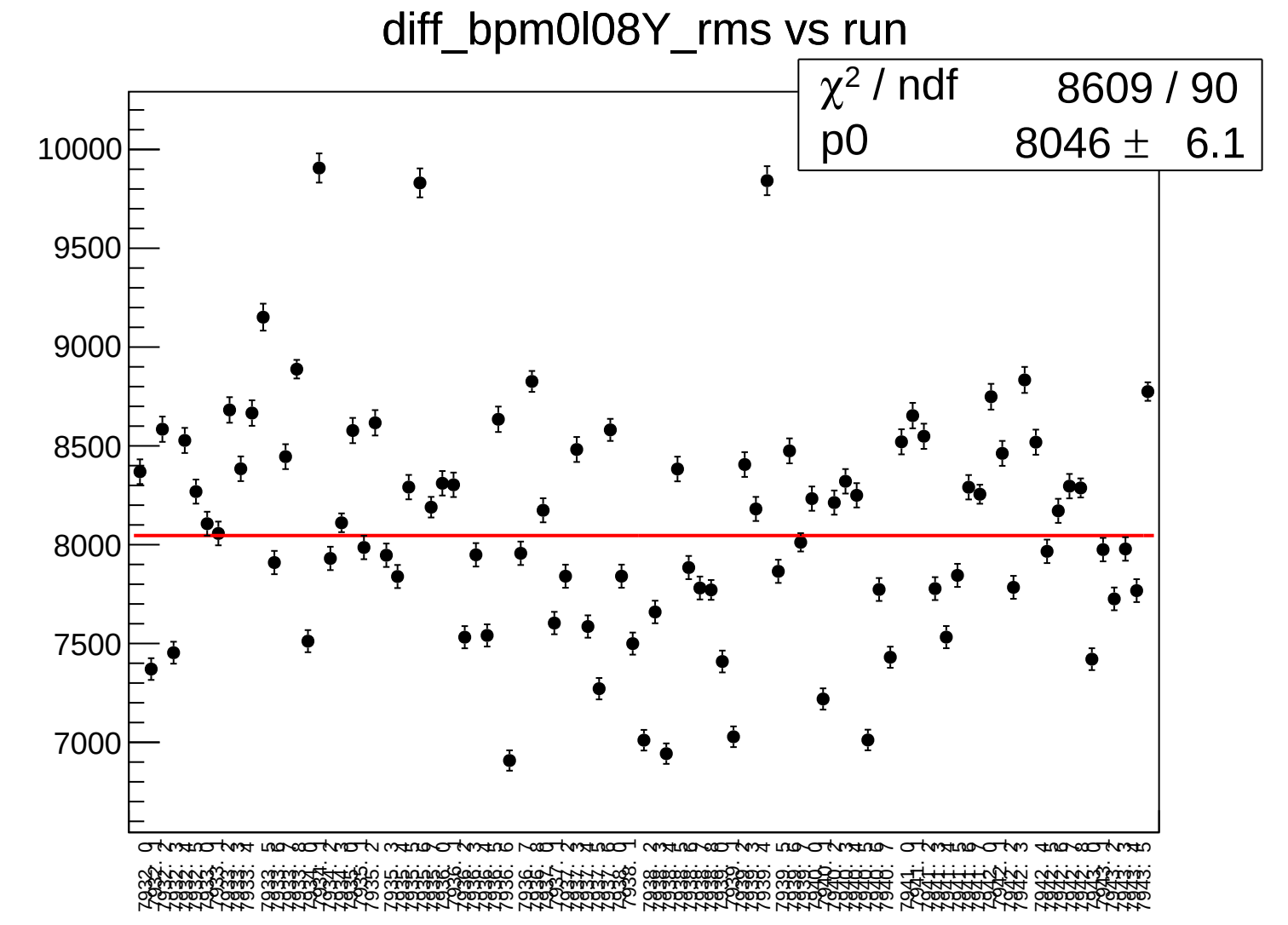

diff_bpm0l08X_mean vs run
χ² / ndf 103.5 / 90
p0 −4.396 ± 11.23
400
200
0
−200
−400
pull
Entries 91
Mean −96.49
Std Dev 0
2
1
0
−1
−2

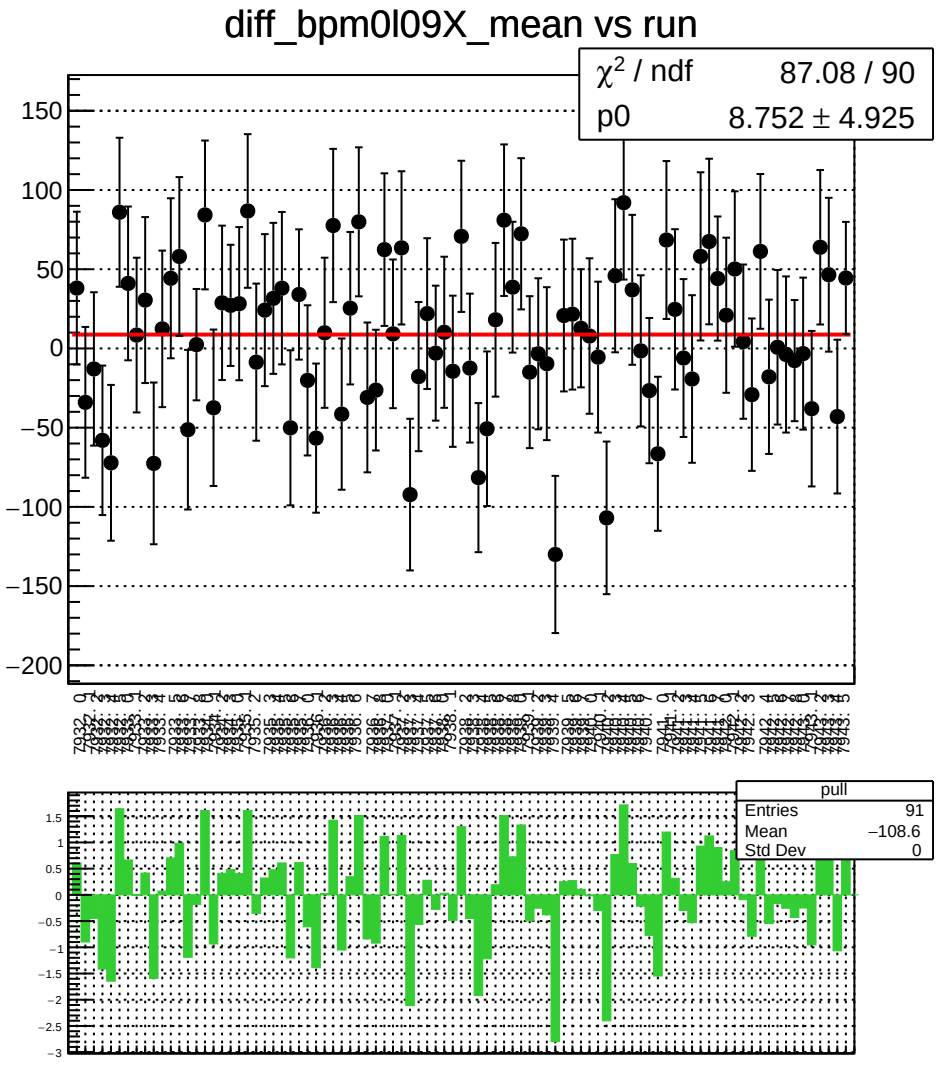

pull1D
Entries 91
Mean 0.01788
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

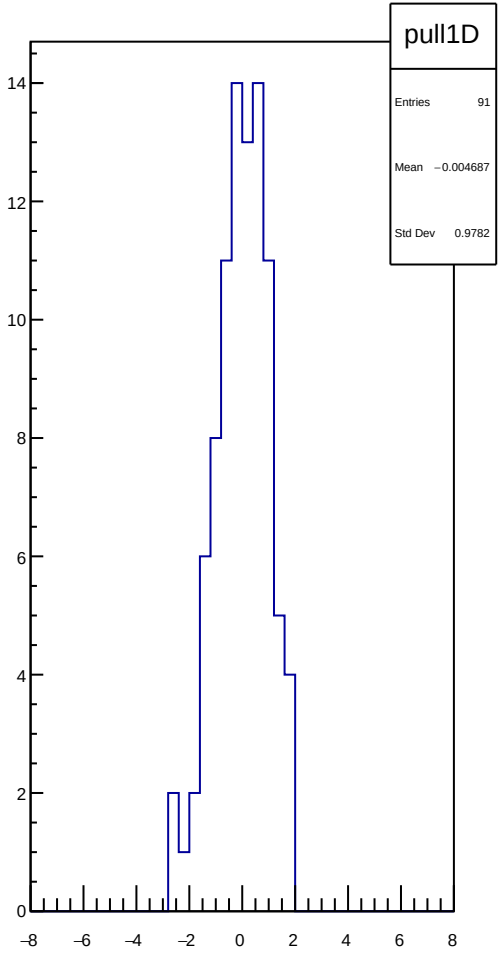

diff_bpm0l08X_rms vs run
χ² / ndf 1.008e+04 / 90
p0 1.047e+04 ± 7.941
13000
12000
11000
10000
9000

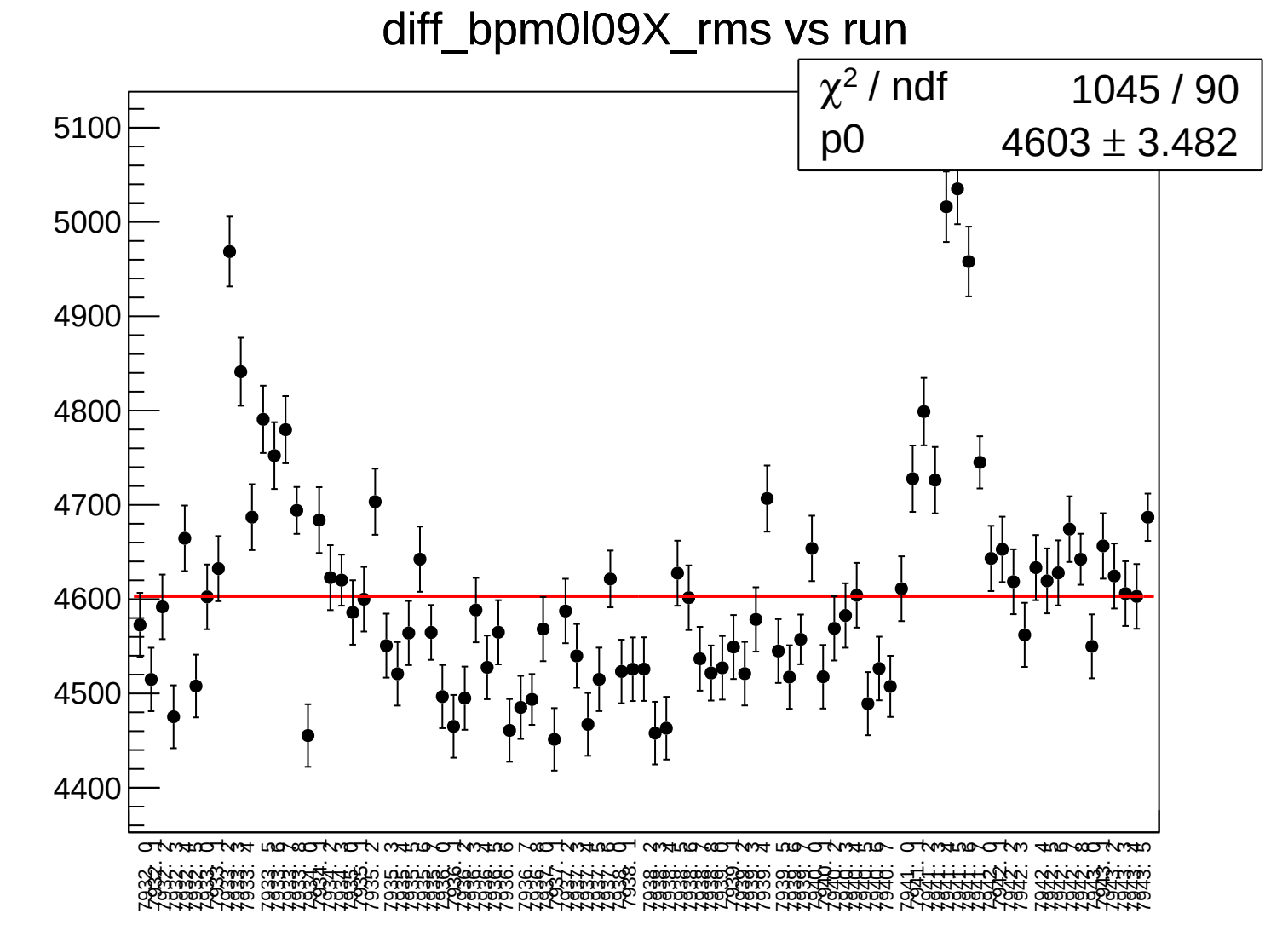

diff_bpm0l08Y_mean vs run
χ² / ndf 100.9 / 90
p0 6.137 ± 8.627
pull
Entries 91
Mean −106.6
Std Dev 0

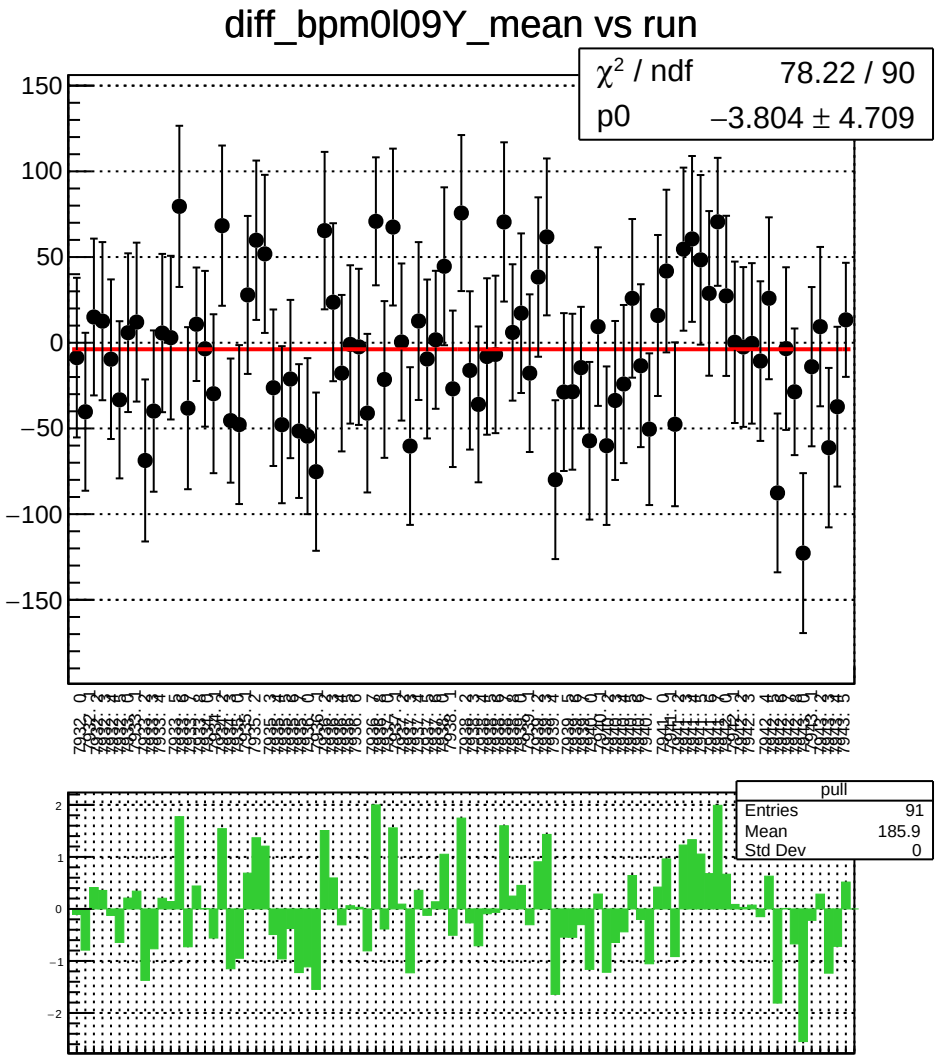

pull1D
Entries 91
Mean −0.01845
Std Dev 1.053

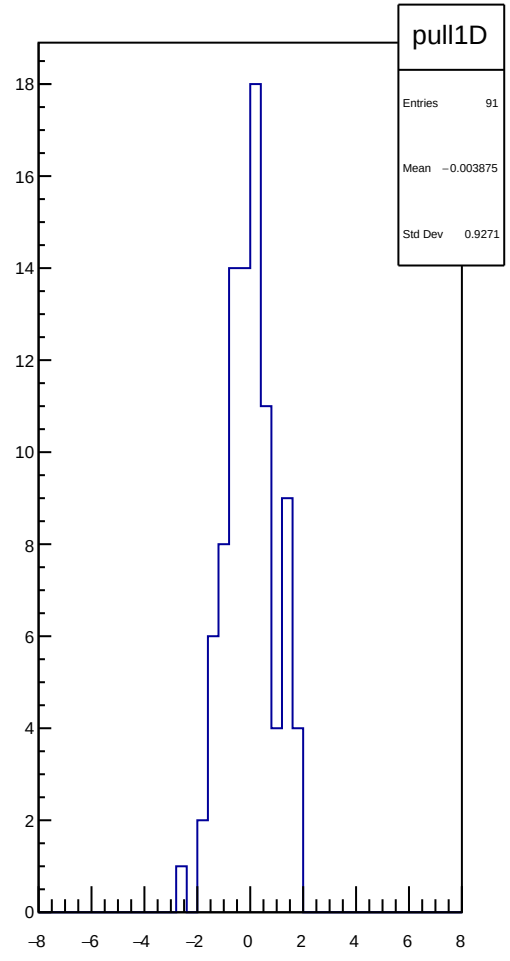

diff_bpm0l08Y_rms vs run
χ² / ndf 8609 / 90
p0 8046 ± 6.1
10000
9500
9000
8500
8000
7500
7000

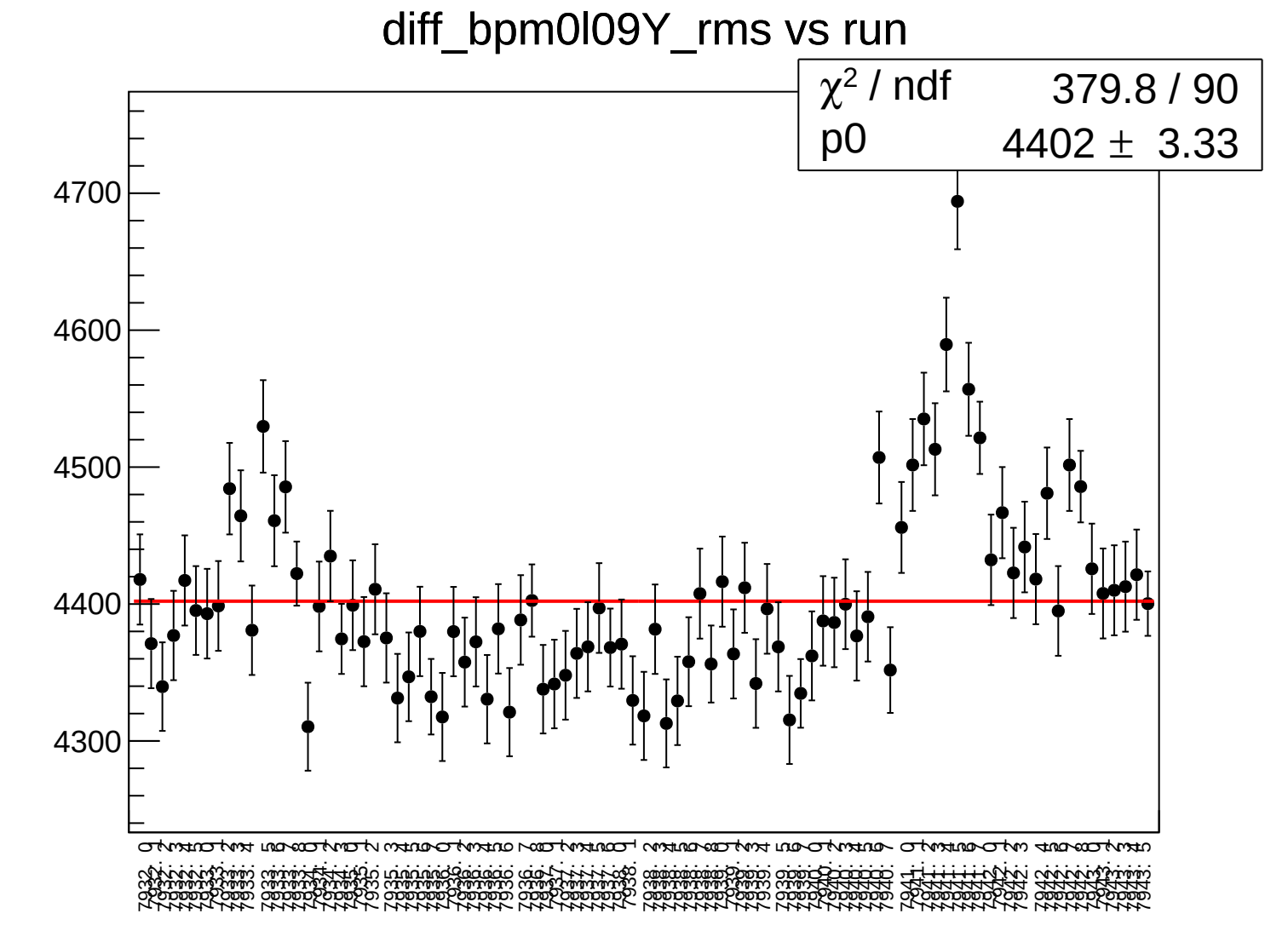

diff_bpm0l09X_mean vs run
χ² / ndf 87.08 / 90
p0 8.752 ± 4.925
pull
Entries 91
Mean −108.6
Std Dev 0

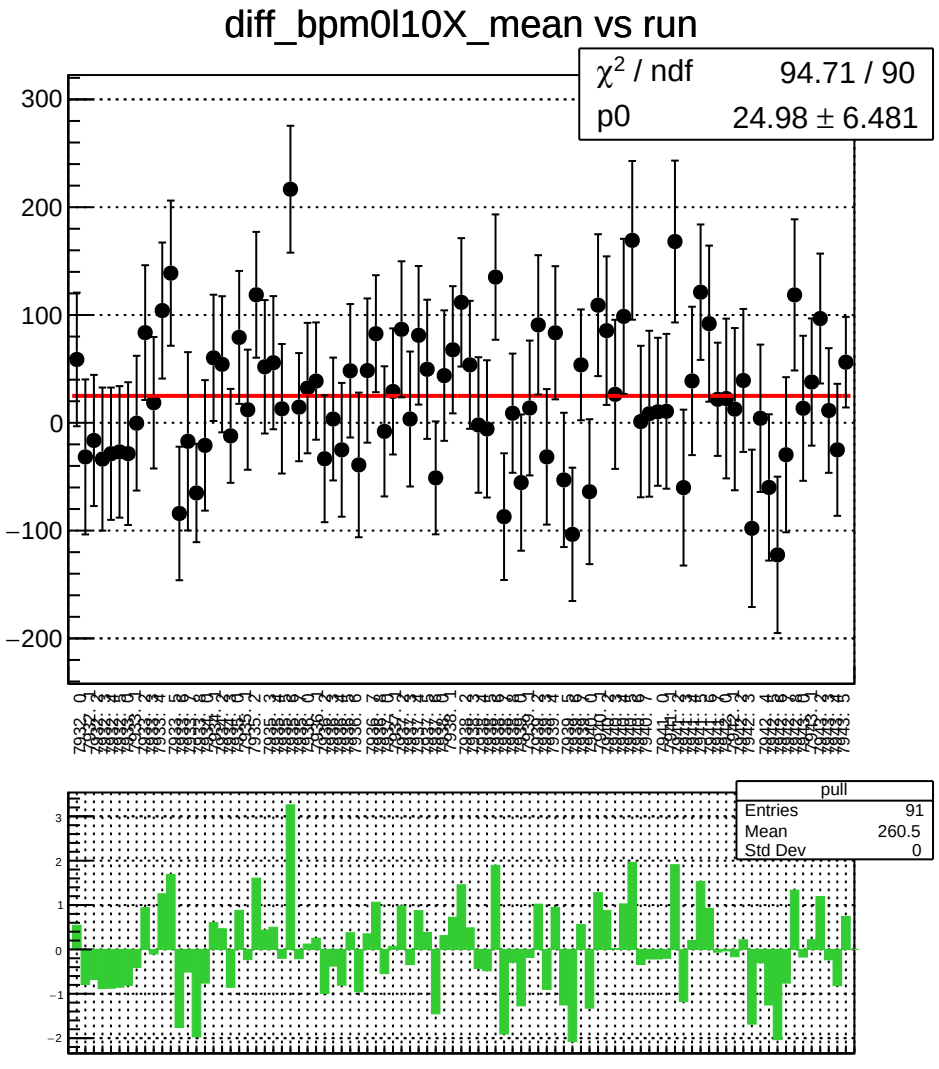

pull1D
Entries 91
Mean −0.004687
Std Dev 0.9782

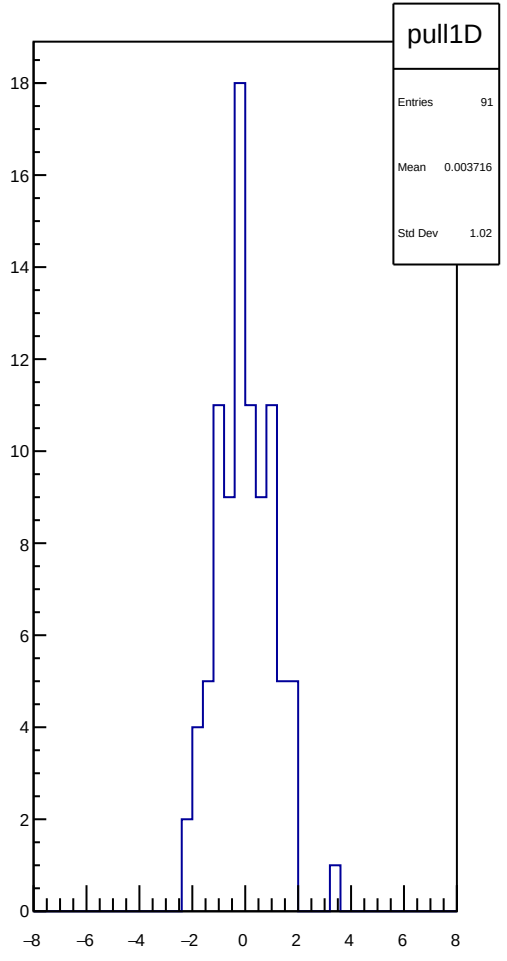

diff_bpm0l09X_rms vs run
χ^2 / ndf 1045 / 90
p0 4603 ± 3.482
5100
5000
4900
4800
4700
4600
4500
4400

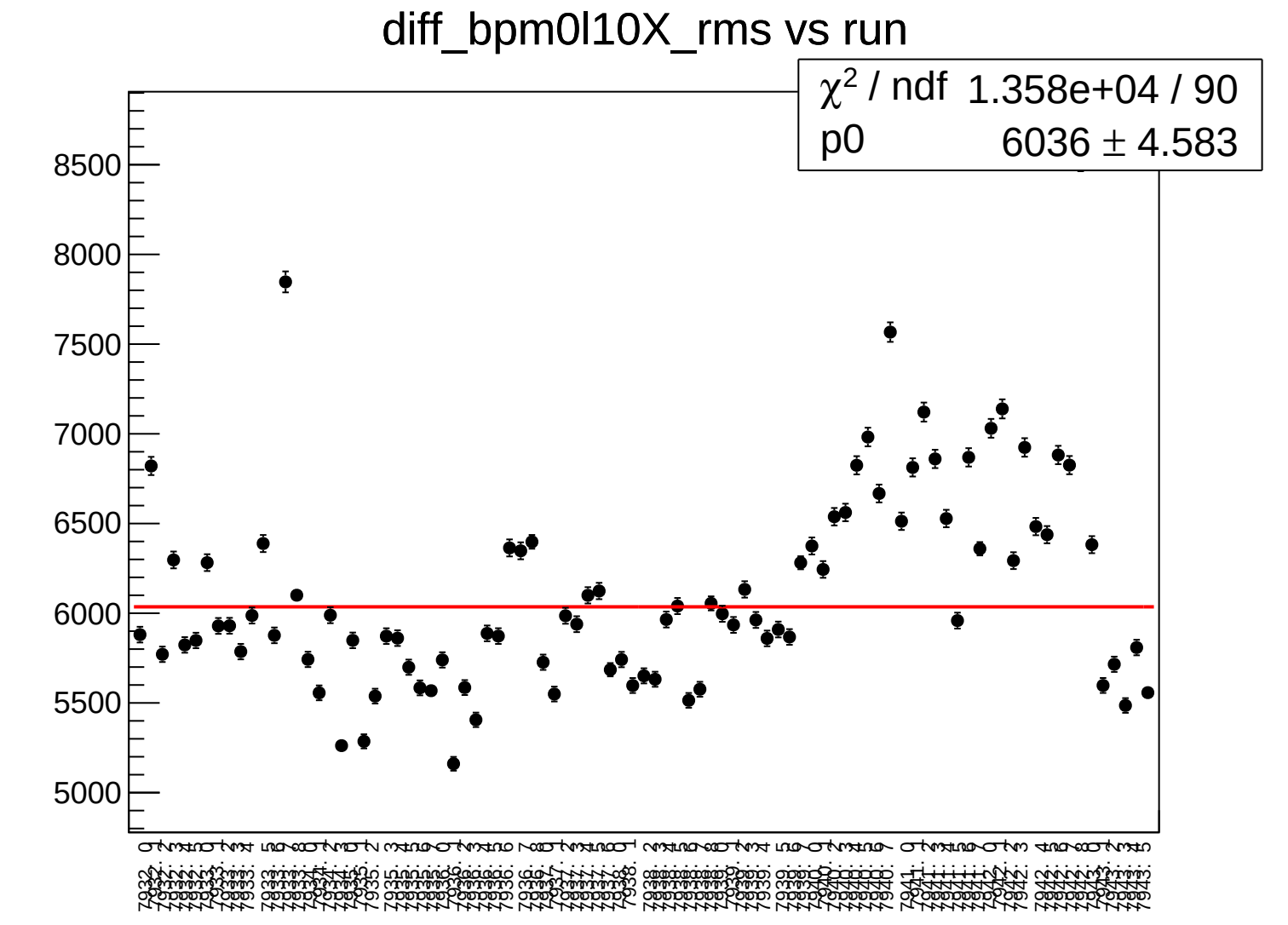

diff_bpm0l09Y_mean vs run
χ² / ndf 78.22 / 90
p0 −3.804 ± 4.709
pull
Entries 91
Mean 185.9
Std Dev 0

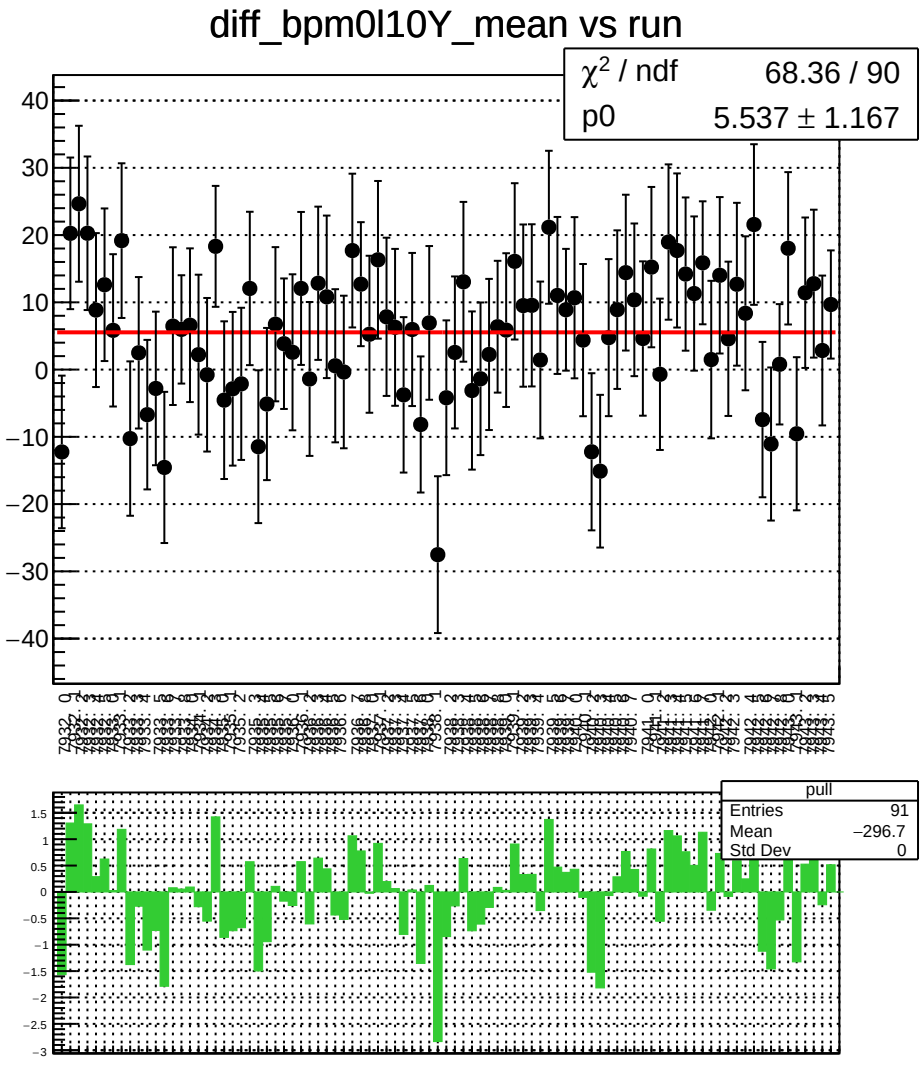

pull1D
Entries 91
Mean −0.003875
Std Dev 0.9271

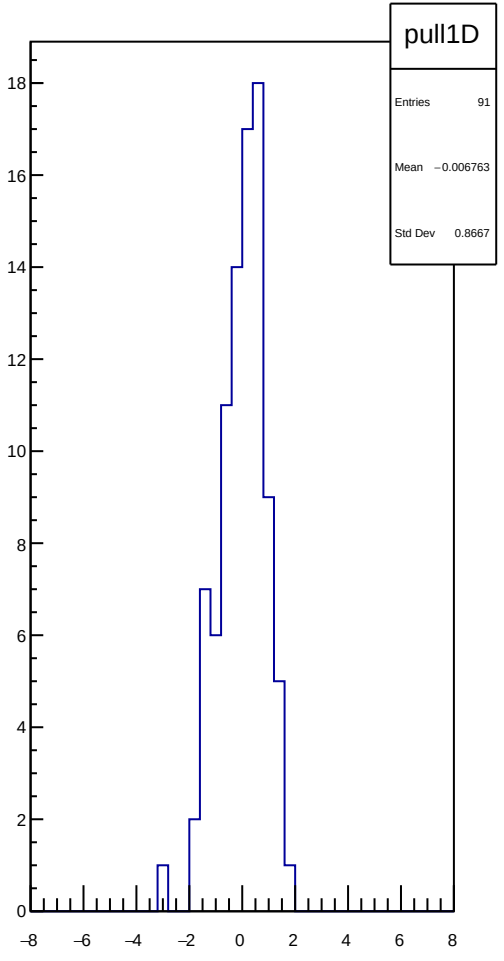

diff_bpm0l09Y_rms vs run
χ² / ndf 379.8 / 90
p0 4402 ± 3.33
4700
4600
4500
4400
4300

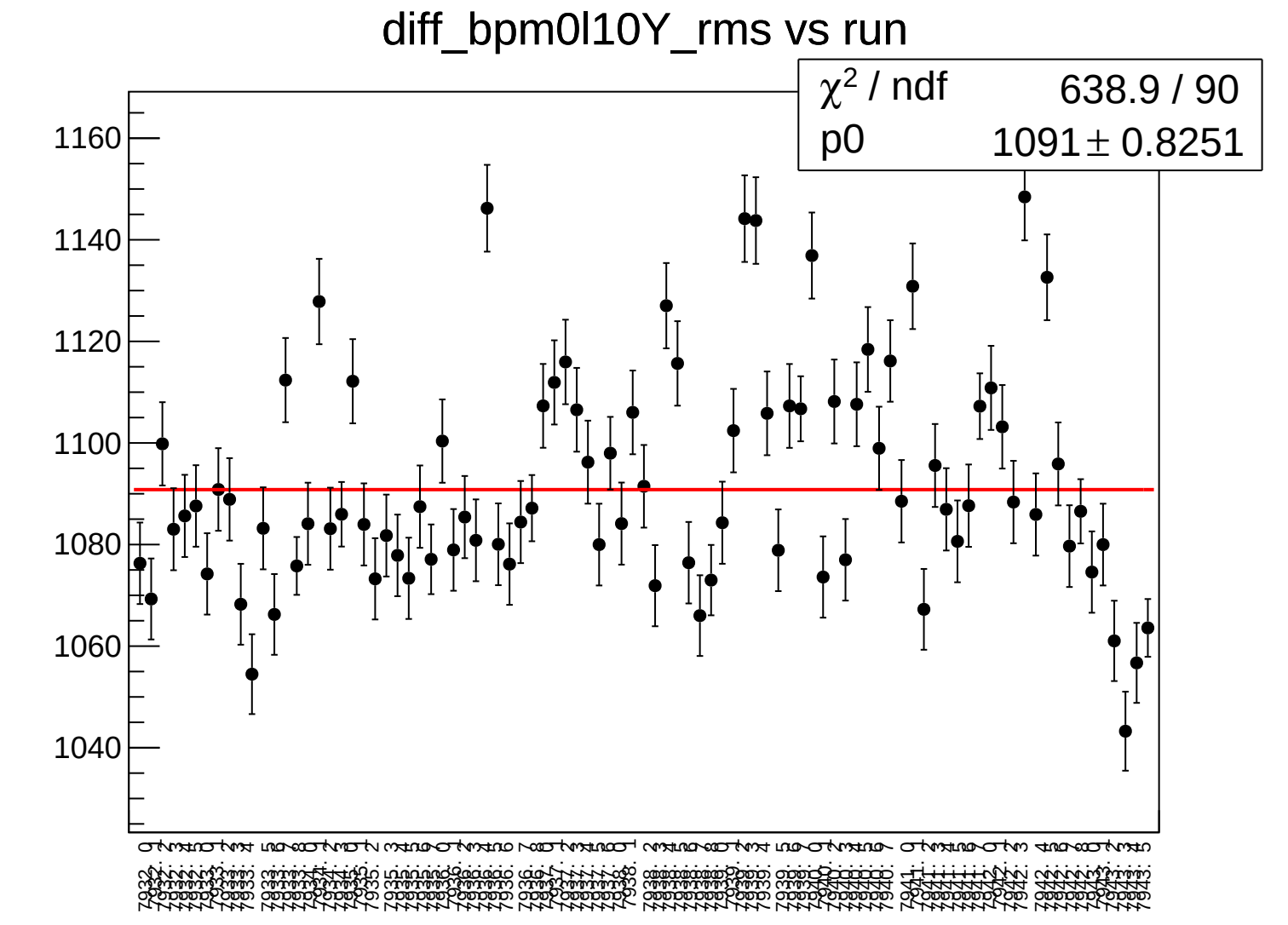

diff_bpm0l10X_mean vs run
χ² / ndf 94.71 / 90
p0 24.98 ± 6.481
300
200
100
0
−100
−200
pull
Entries 91
Mean 260.5
Std Dev 0
3
2
1
0
−1
−2

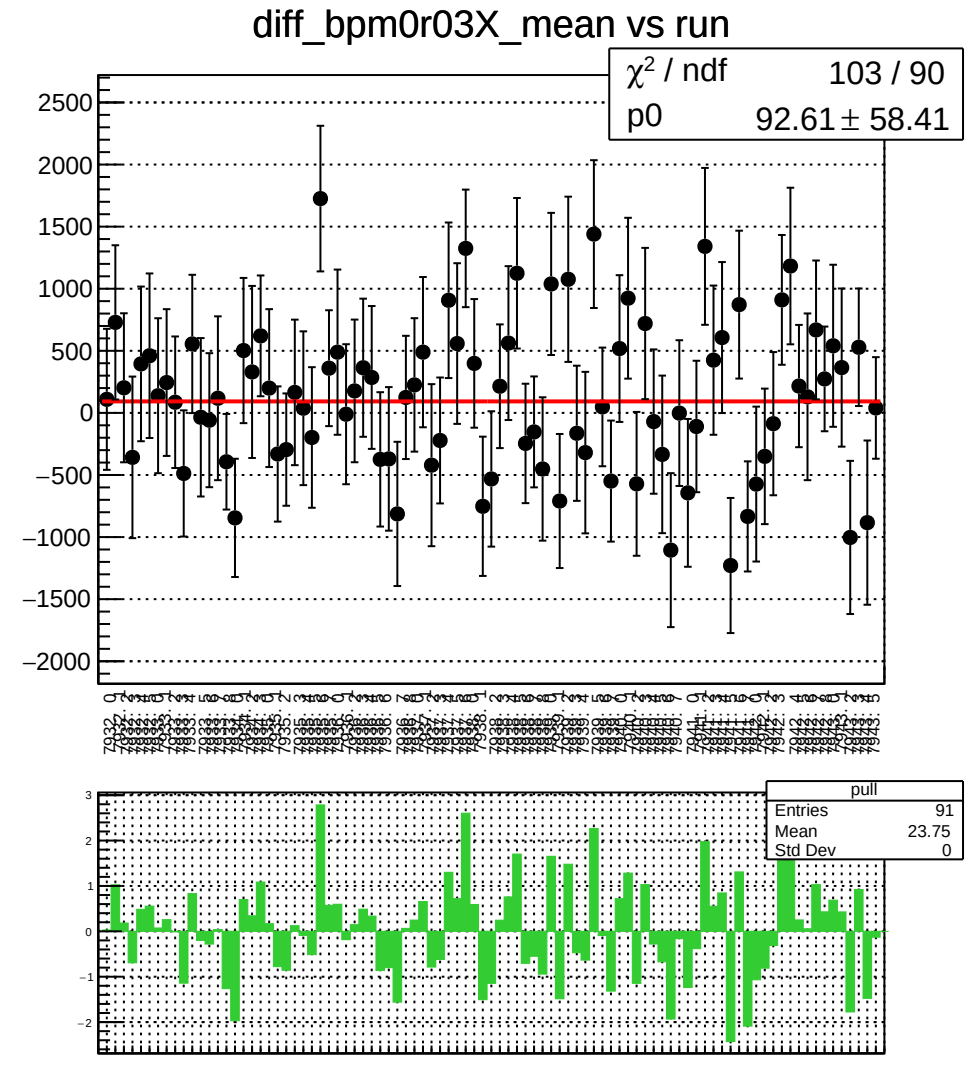

pull1D
Entries 91
Mean 0.003716
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

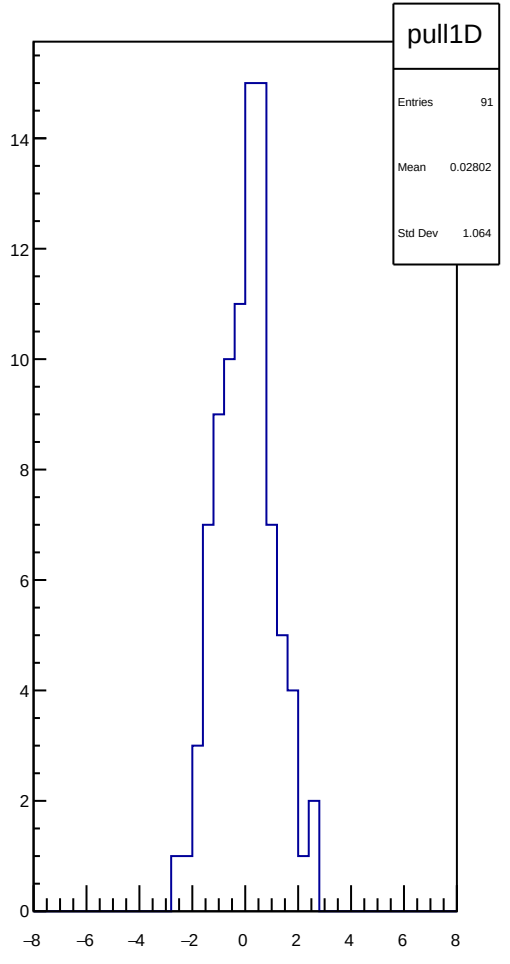

diff_bpm0l10X_rms vs run
χ² / ndf 1.358e+04 / 90
p0 6036 ± 4.583
8500
8000
7500
7000
6500
6000
5500
5000

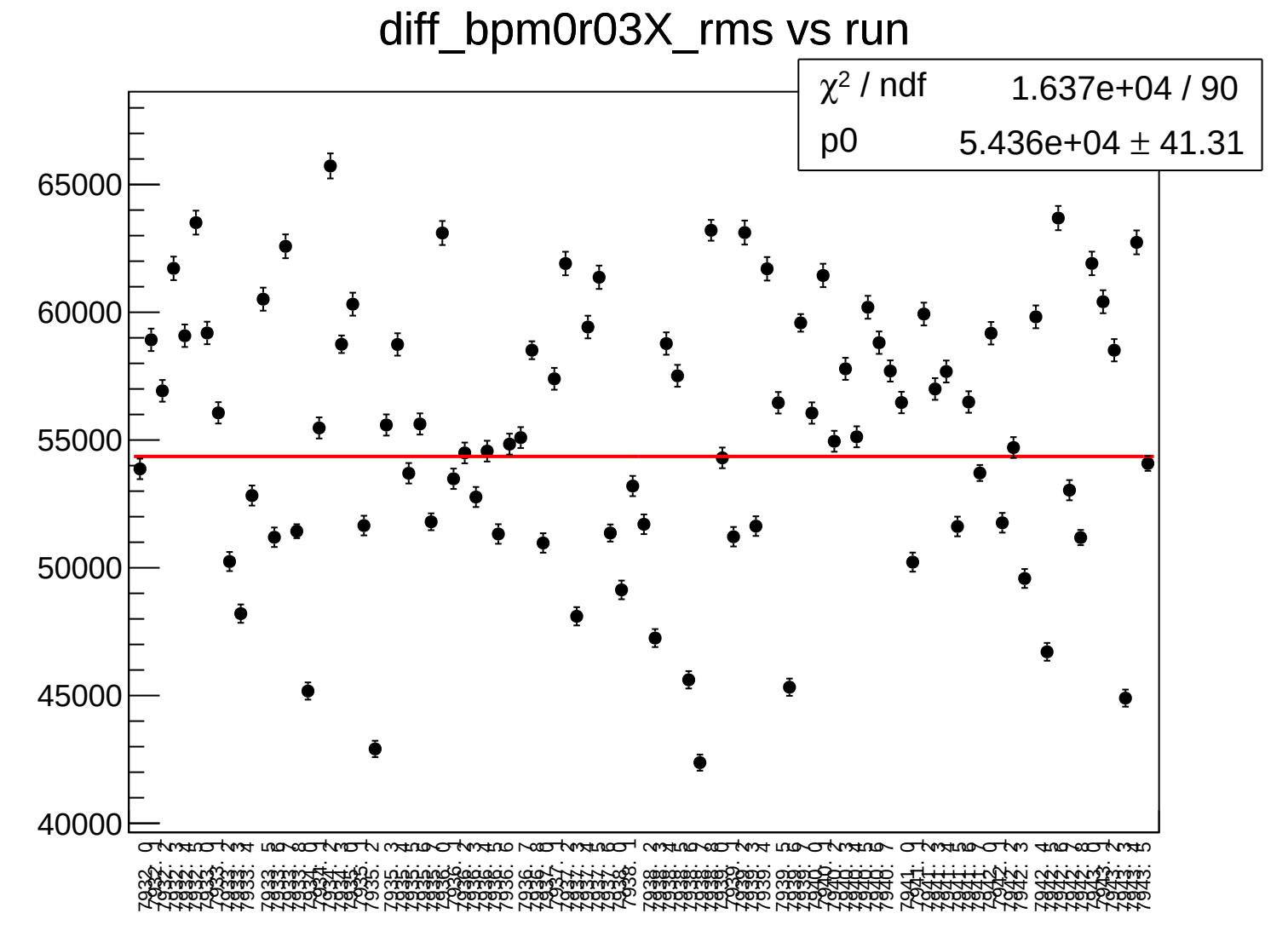

diff_bpm0l10Y_mean vs run
χ² / ndf 68.36 / 90
p0 5.537 ± 1.167
pull
Entries 91
Mean −296.7
Std Dev 0

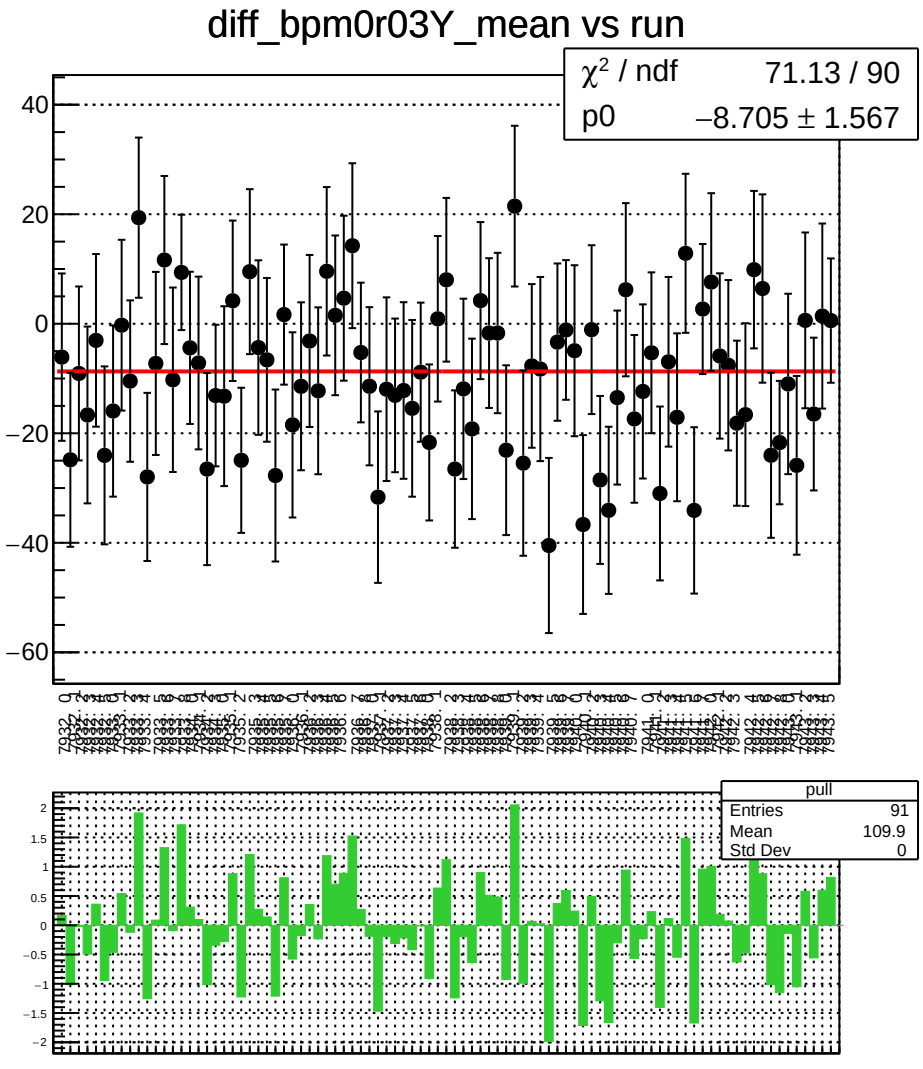

pull1D
Entries 91
Mean −0.006763
Std Dev 0.8667

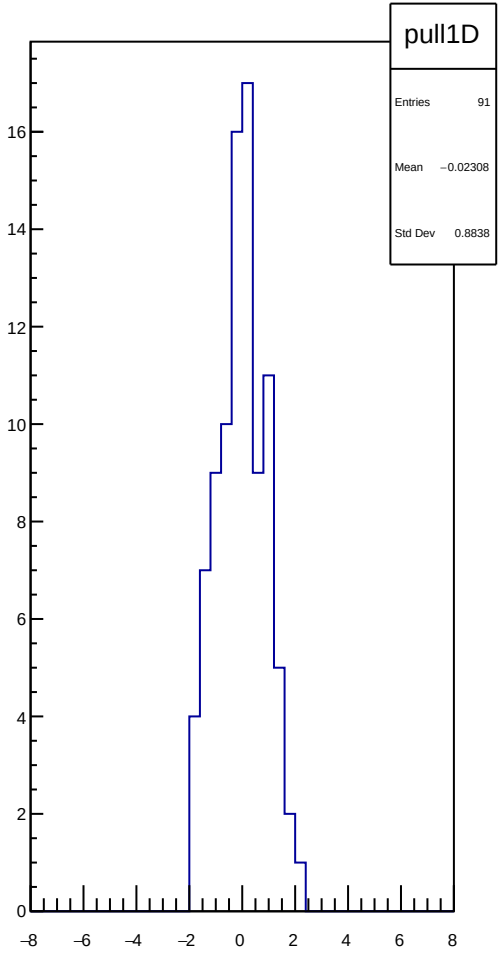

diff_bpm0l10Y_rms vs run
χ² / ndf 638.9 / 90
p0 1091 ± 0.8251
1160
1140
1120
1100
1080
1060
1040

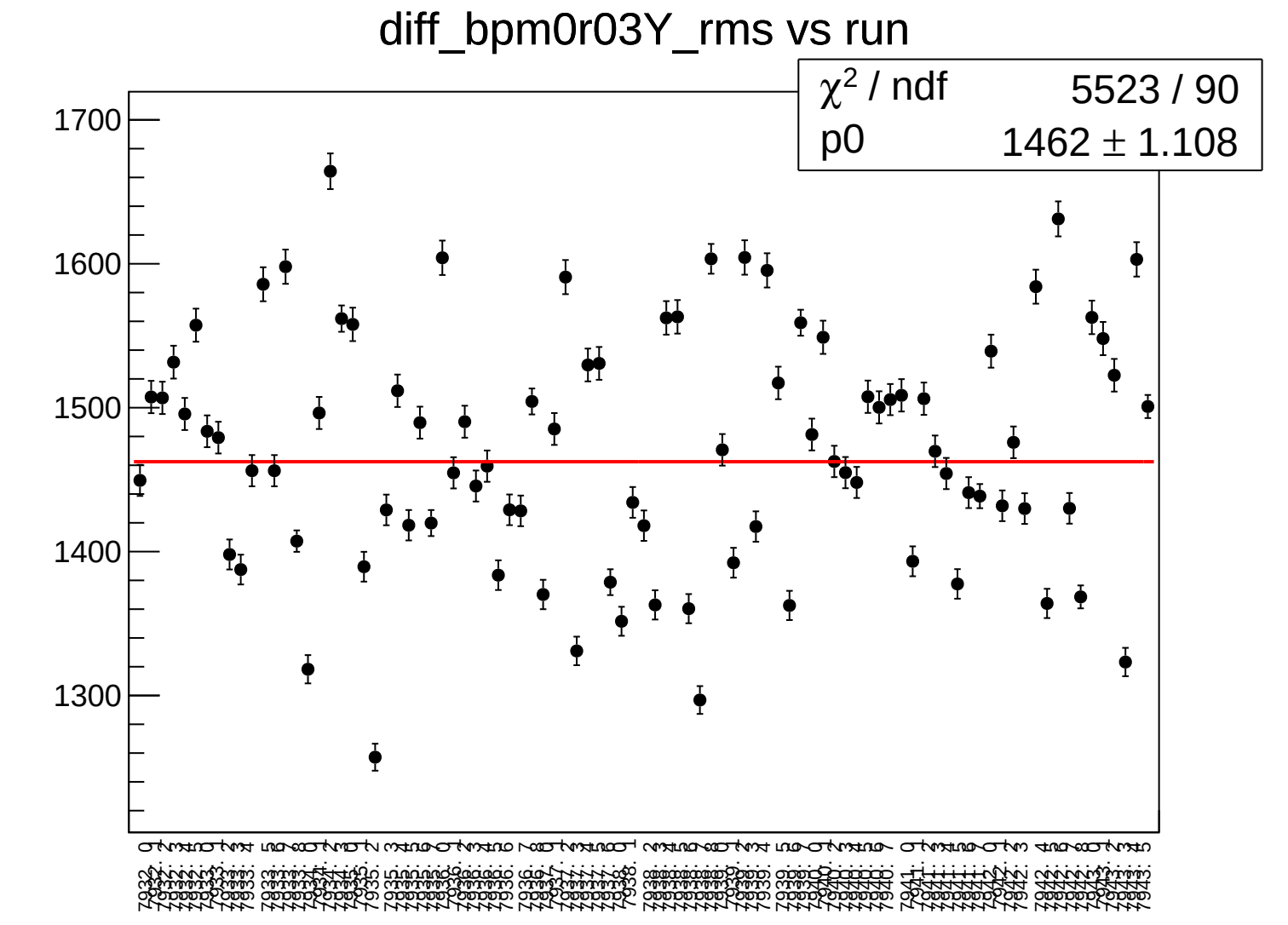

diff_bpm0r03X_mean vs run
χ² / ndf 103 / 90
p0 92.61 ± 58.41
pull
Entries 91
Mean 23.75
Std Dev 0

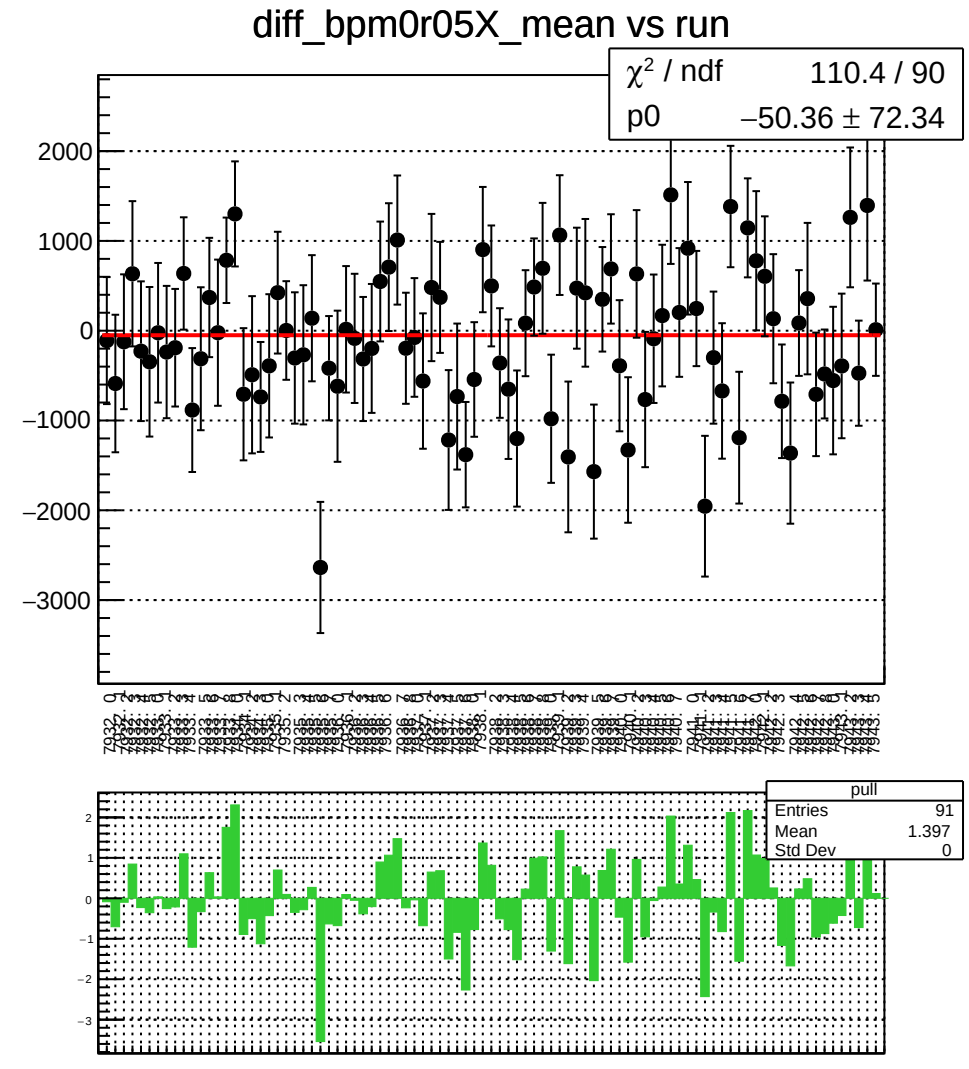

pull1D
Entries 91
Mean 0.02802
Std Dev 1.064

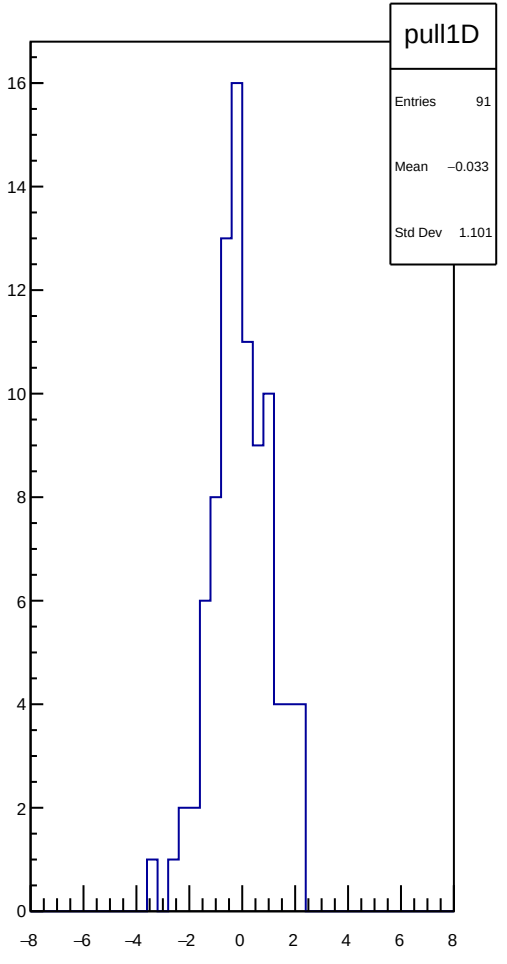

diff_bpm0r03X_rms vs run
χ² / ndf 1.637e+04 / 90
p0 5.436e+04 ± 41.31
65000
60000
55000
50000
45000
40000

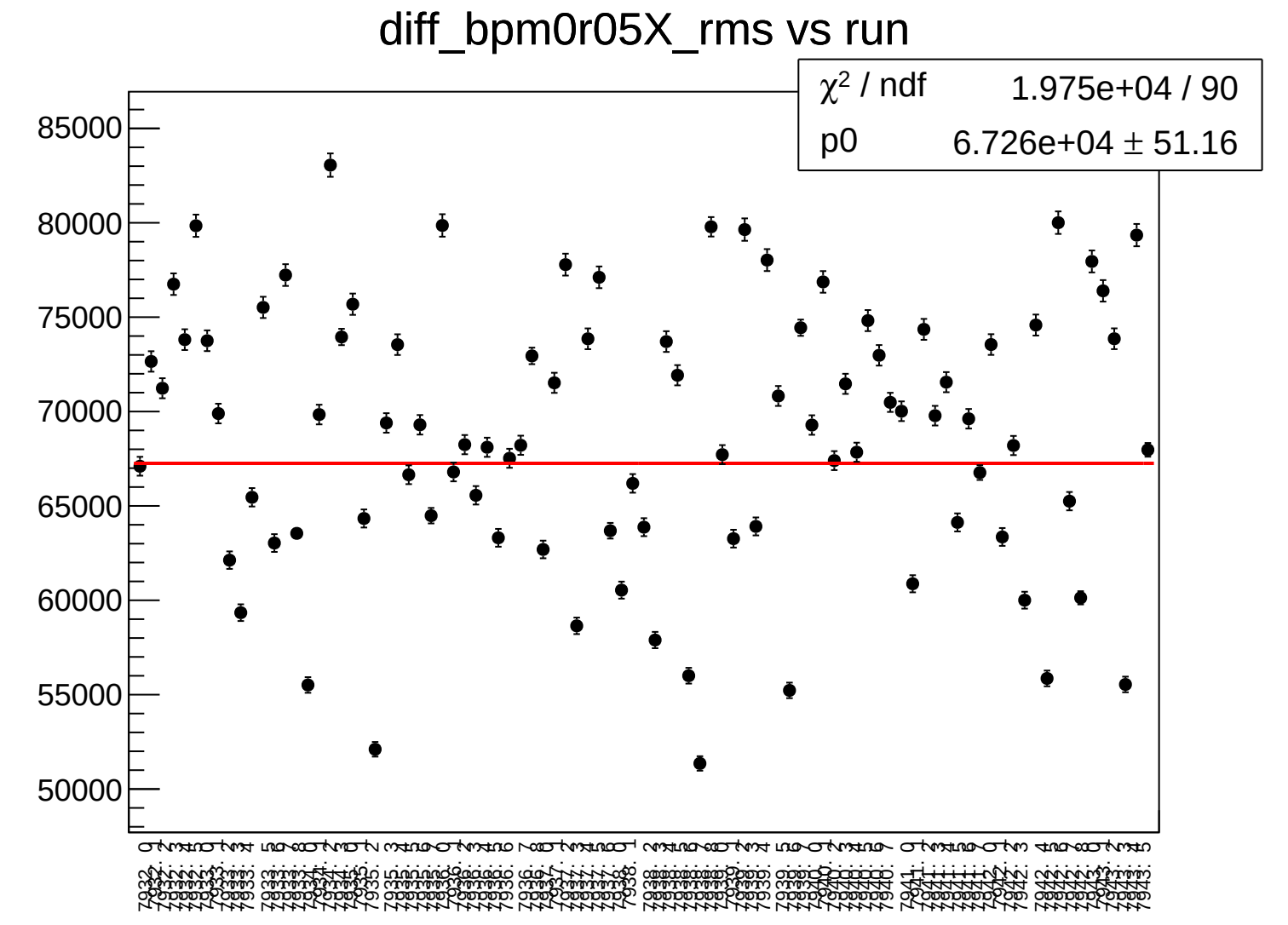

diff_bpm0r03Y_mean vs run
χ² / ndf 71.13 / 90
p0 −8.705 ± 1.567
pull
Entries 91
Mean 109.9
Std Dev 0

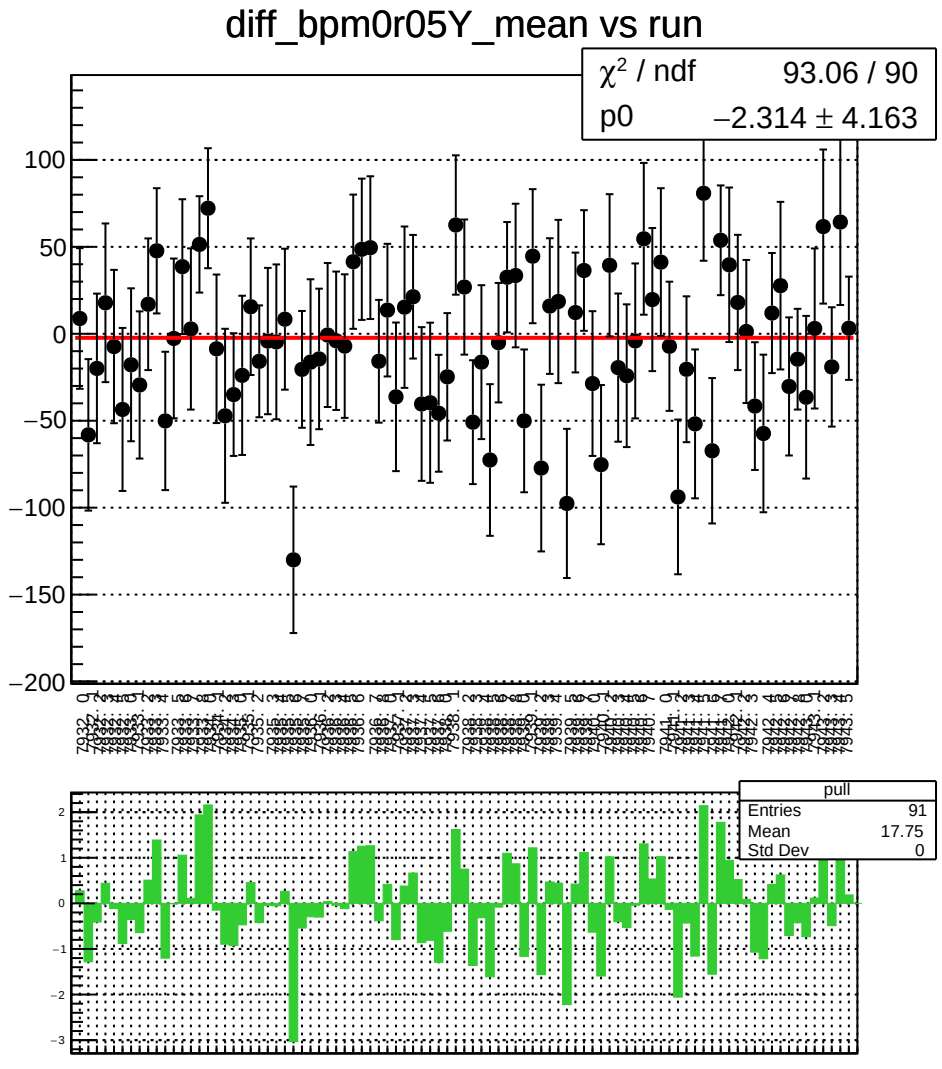

pull1D
Entries 91
Mean −0.02308
Std Dev 0.8838

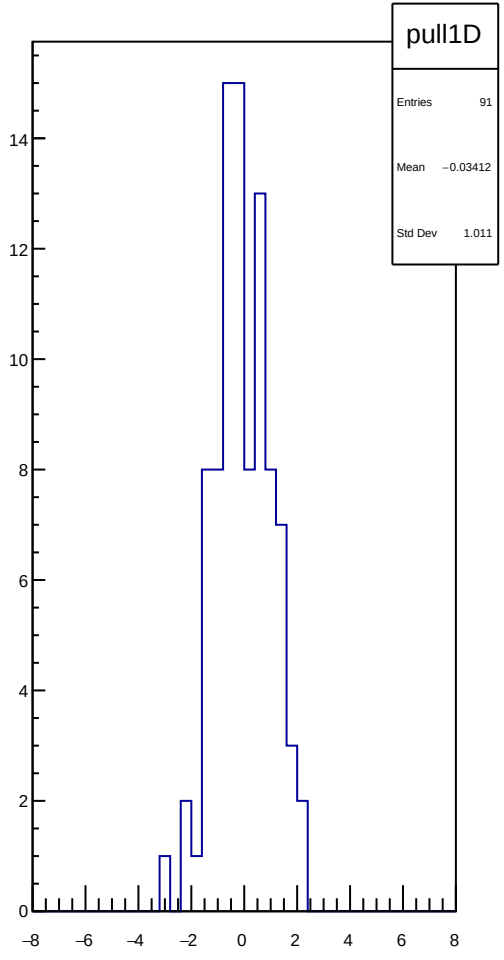

diff_bpm0r03Y_rms vs run
χ² / ndf 5523 / 90
p0 1462 ± 1.108
1700
1600
1500
1400
1300

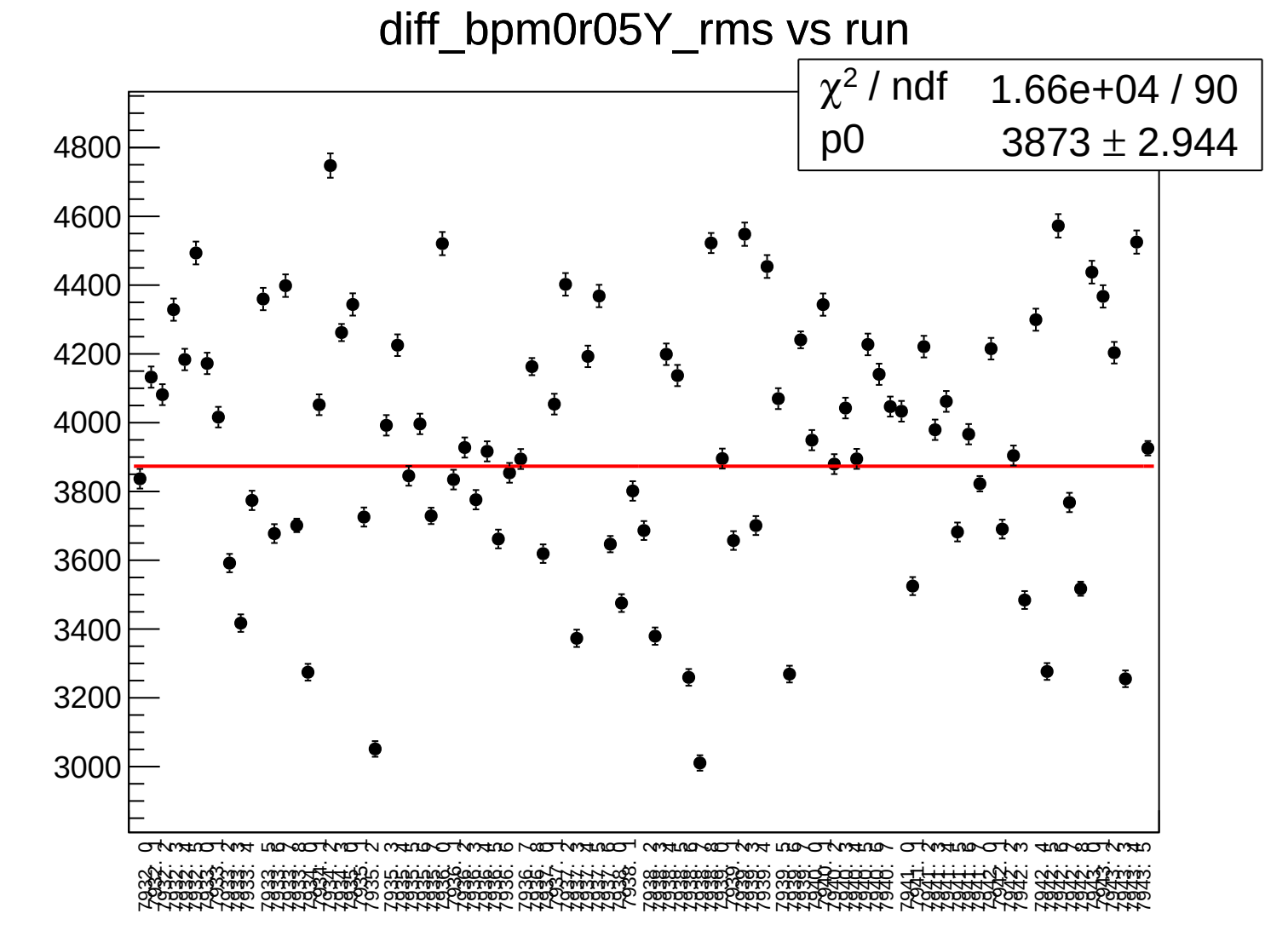

diff_bpm0r05X_mean vs run
χ² / ndf 110.4 / 90
p0 −50.36 ± 72.34
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 1.397
Std Dev 0
2
1
0
−1
−2
−3

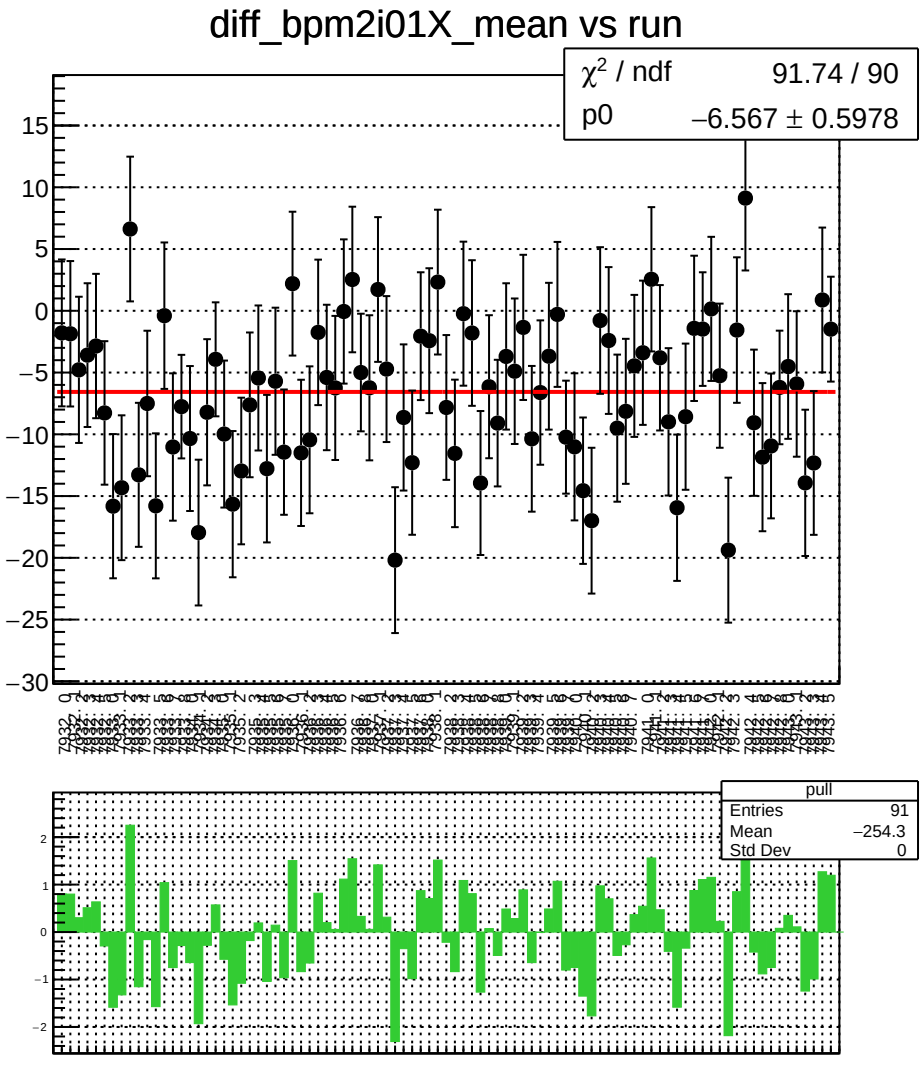

pull1D
Entries 91
Mean −0.033
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

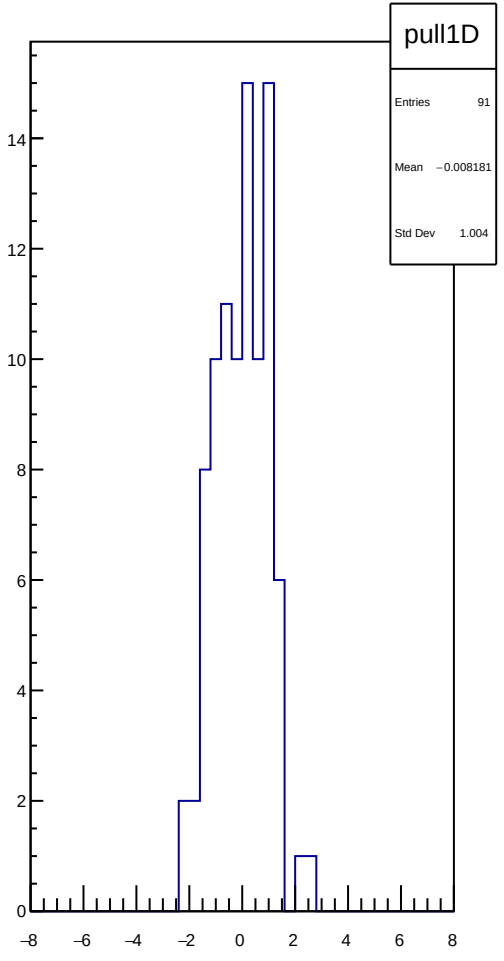

diff_bpm0r05X_rms vs run
χ² / ndf 1.975e+04 / 90
p0 6.726e+04 ± 51.16
85000
80000
75000
70000
65000
60000
55000
50000

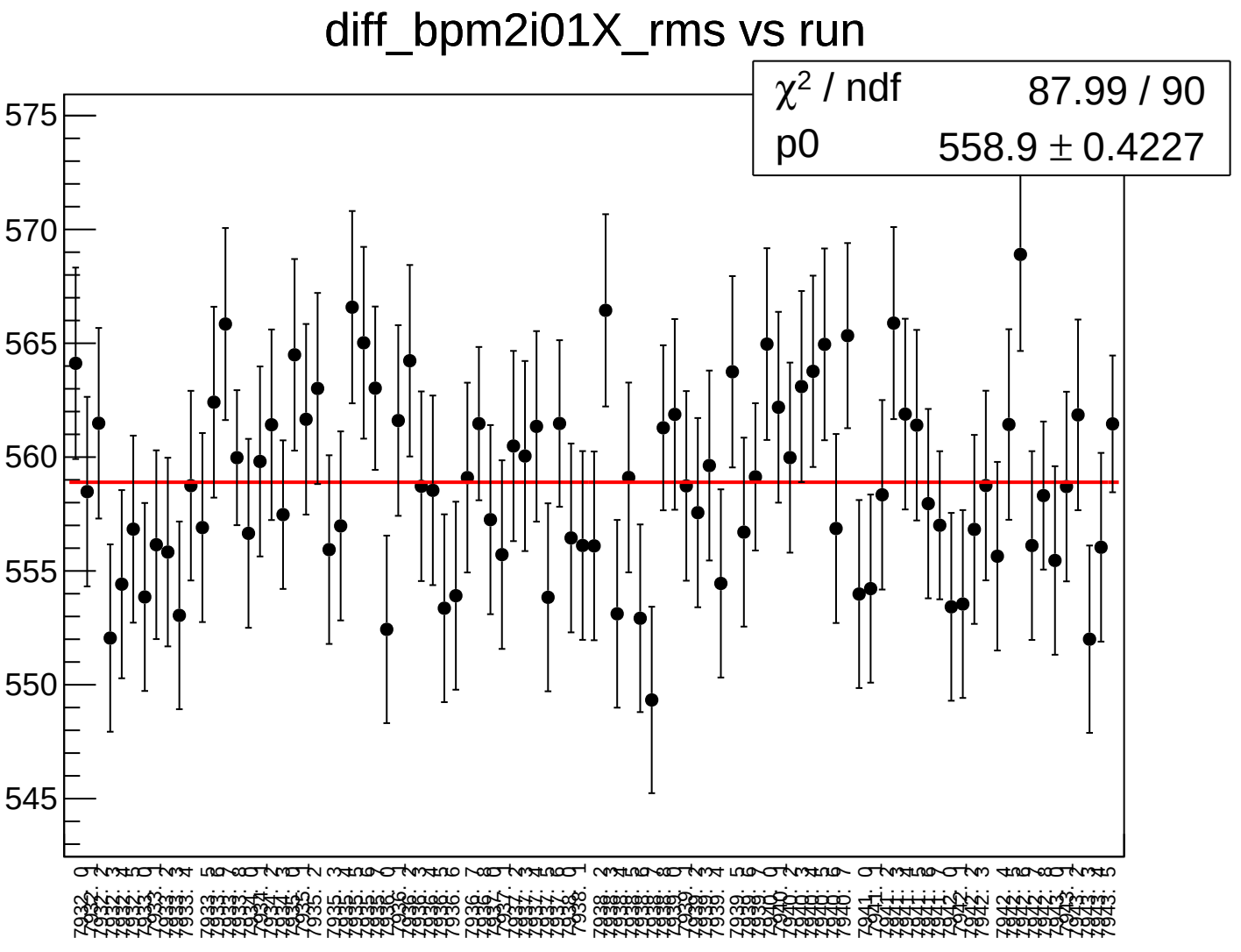

diff_bpm0r05Y_mean vs run
χ² / ndf 93.06 / 90
p0 −2.314 ± 4.163
pull
Entries 91
Mean 17.75
Std Dev 0

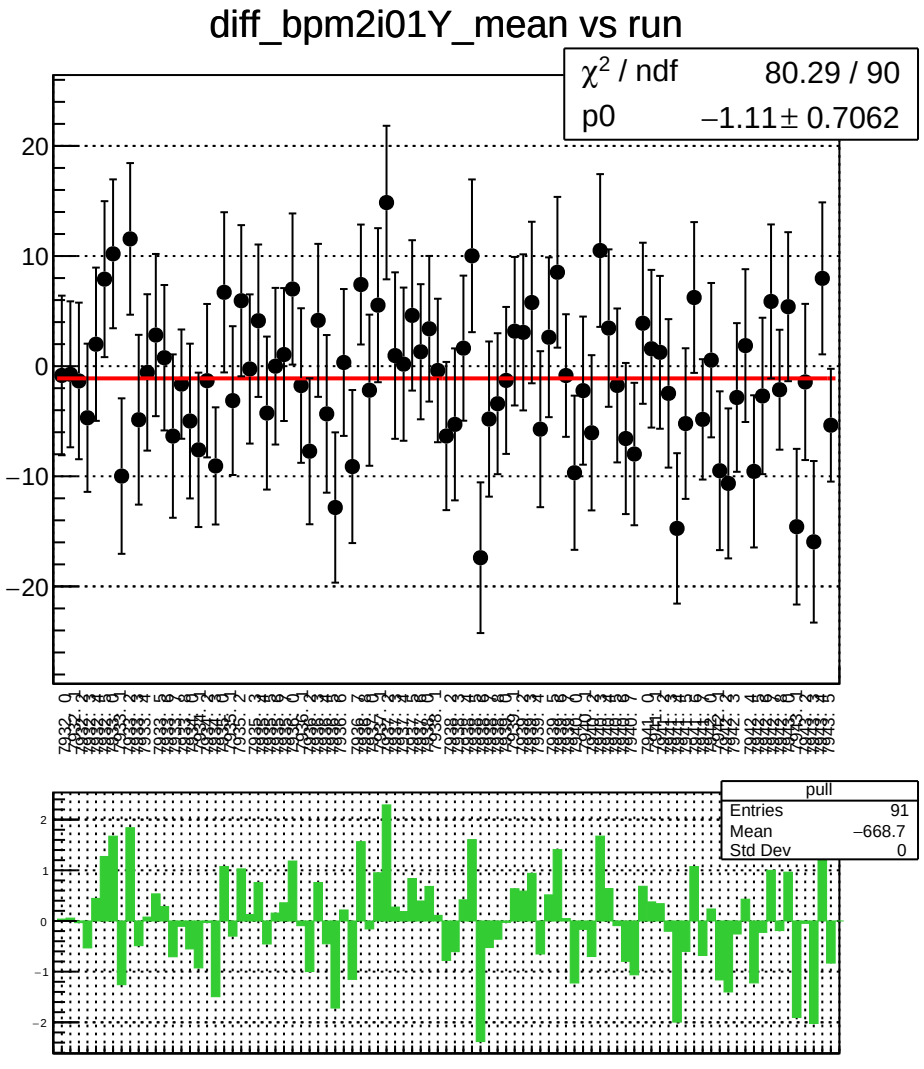

pull1D
Entries 91
Mean −0.03412
Std Dev 1.011

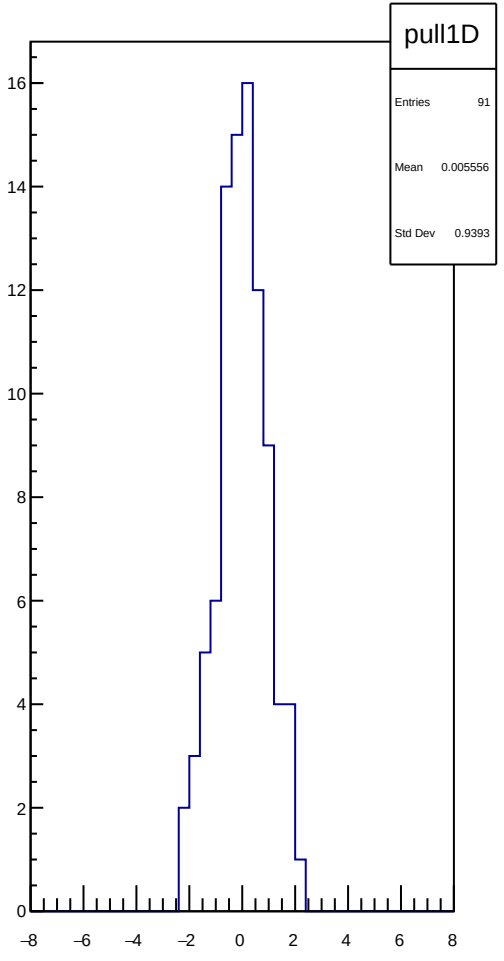

diff_bpm0r05Y_rms vs run
χ² / ndf 1.66e+04 / 90
p0 3873 ± 2.944
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

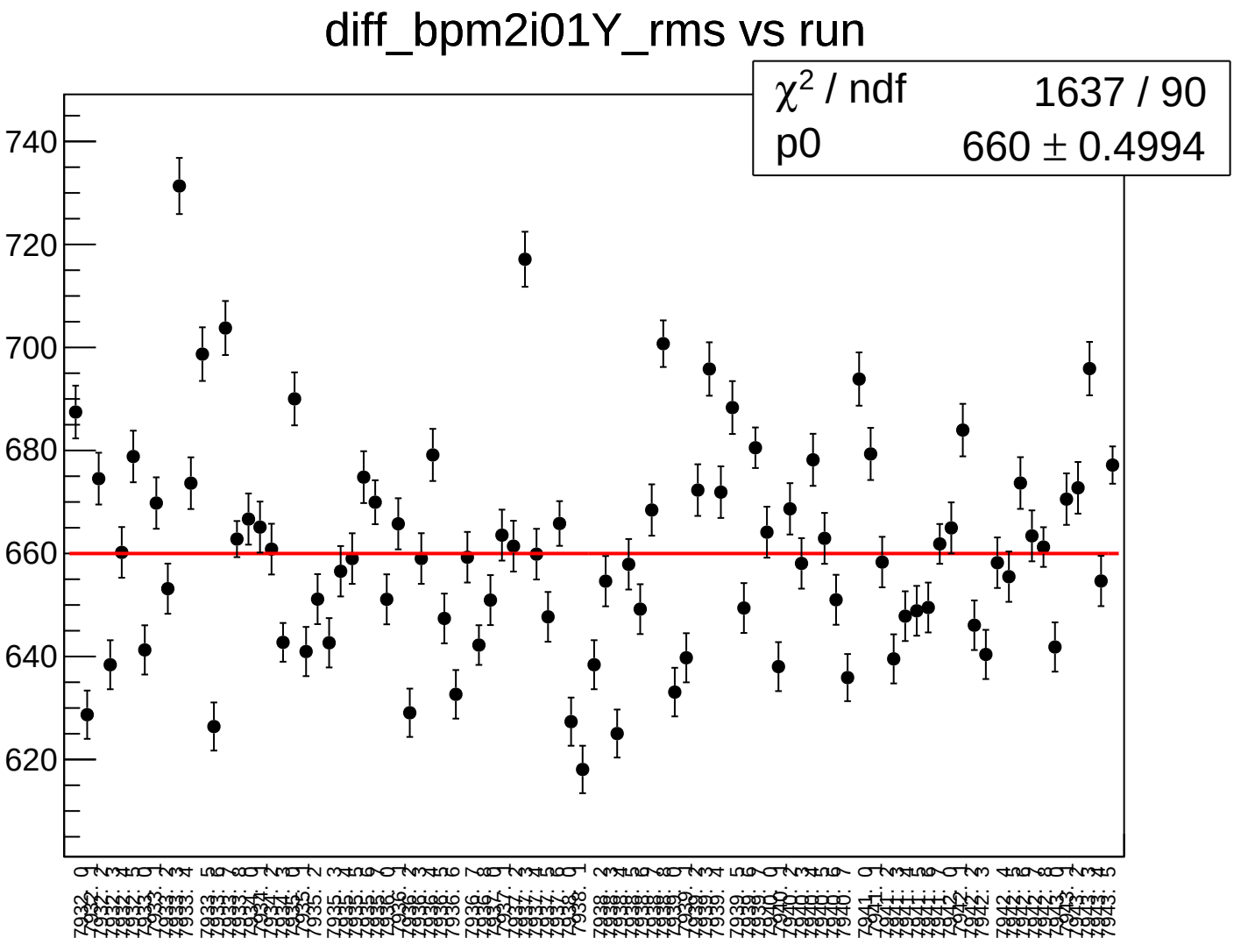

diff_bpm2i01X_mean vs run
χ² / ndf 91.74 / 90
p0 −6.567 ± 0.5978
pull
Entries 91
Mean −254.3
Std Dev 0

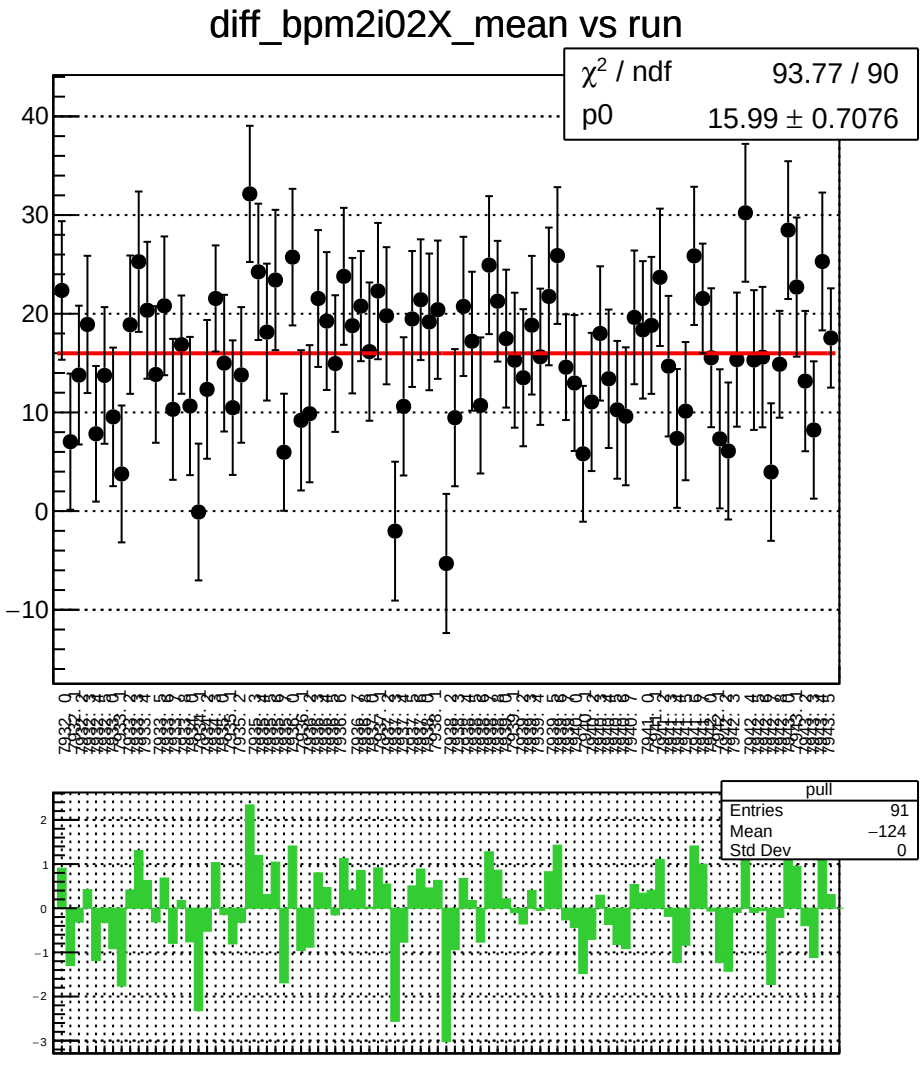

pull1D
Entries 91
Mean −0.008181
Std Dev 1.004

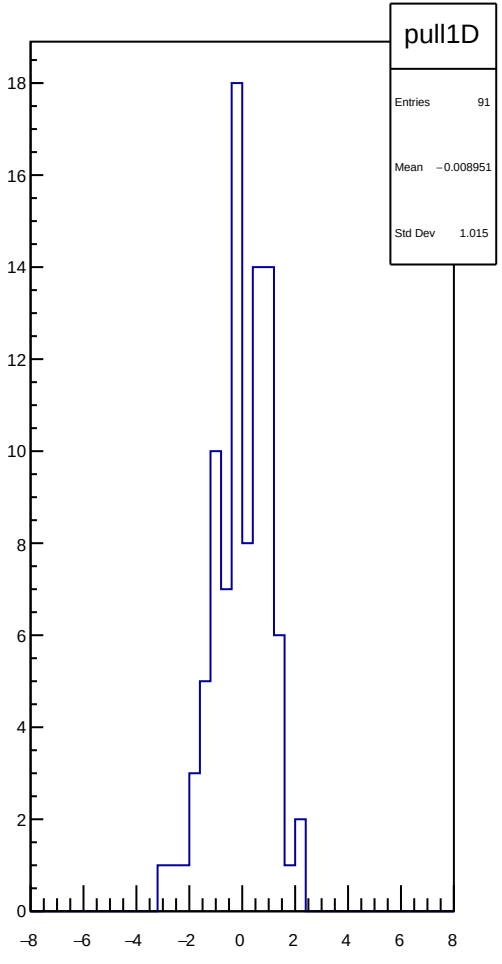

diff_bpm2i01X_rms vs run
χ² / ndf 87.99 / 90
p0 558.9 ± 0.4227
575
570
565
560
555
550
545

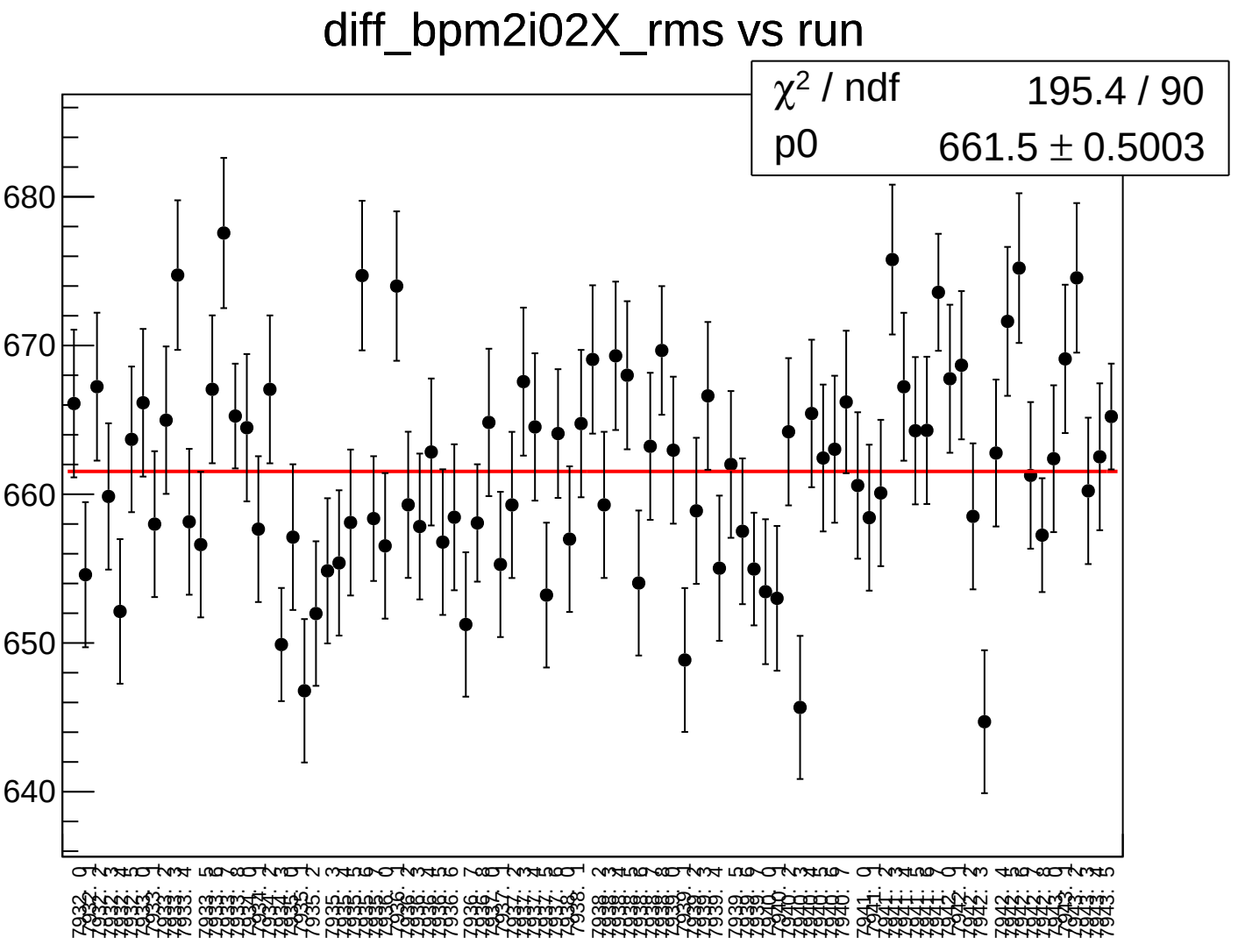

diff_bpm2i01Y_mean vs run
χ² / ndf 80.29 / 90
p0 −1.11 ± 0.7062
pull
Entries 91
Mean −668.7
Std Dev 0

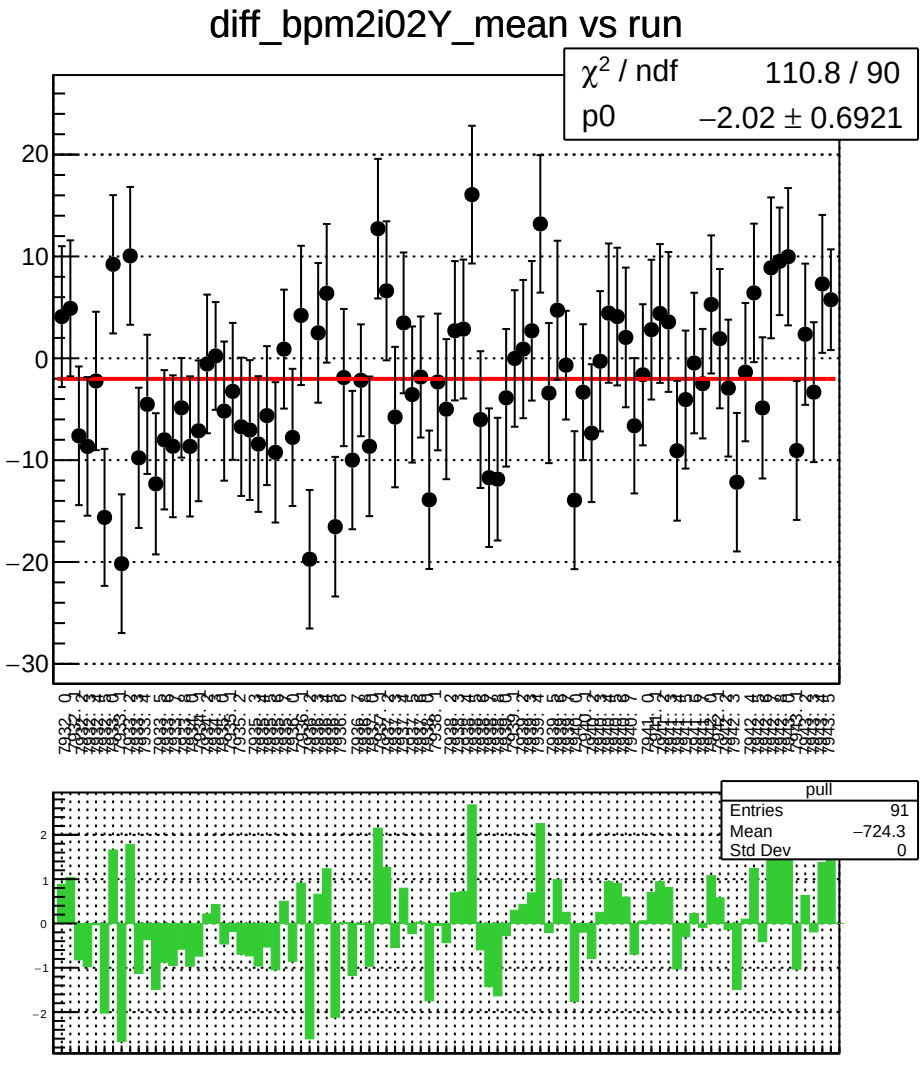

pull1D
Entries 91
Mean 0.005556
Std Dev 0.9393

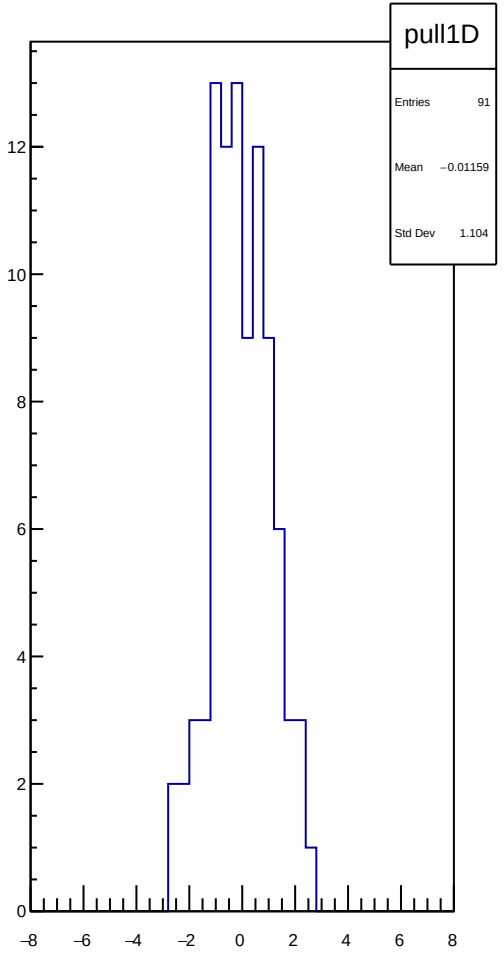

diff_bpm2i01Y_rms vs run
χ² / ndf 1637 / 90
p0 660 ± 0.4994
740
720
700
680
660
640
620

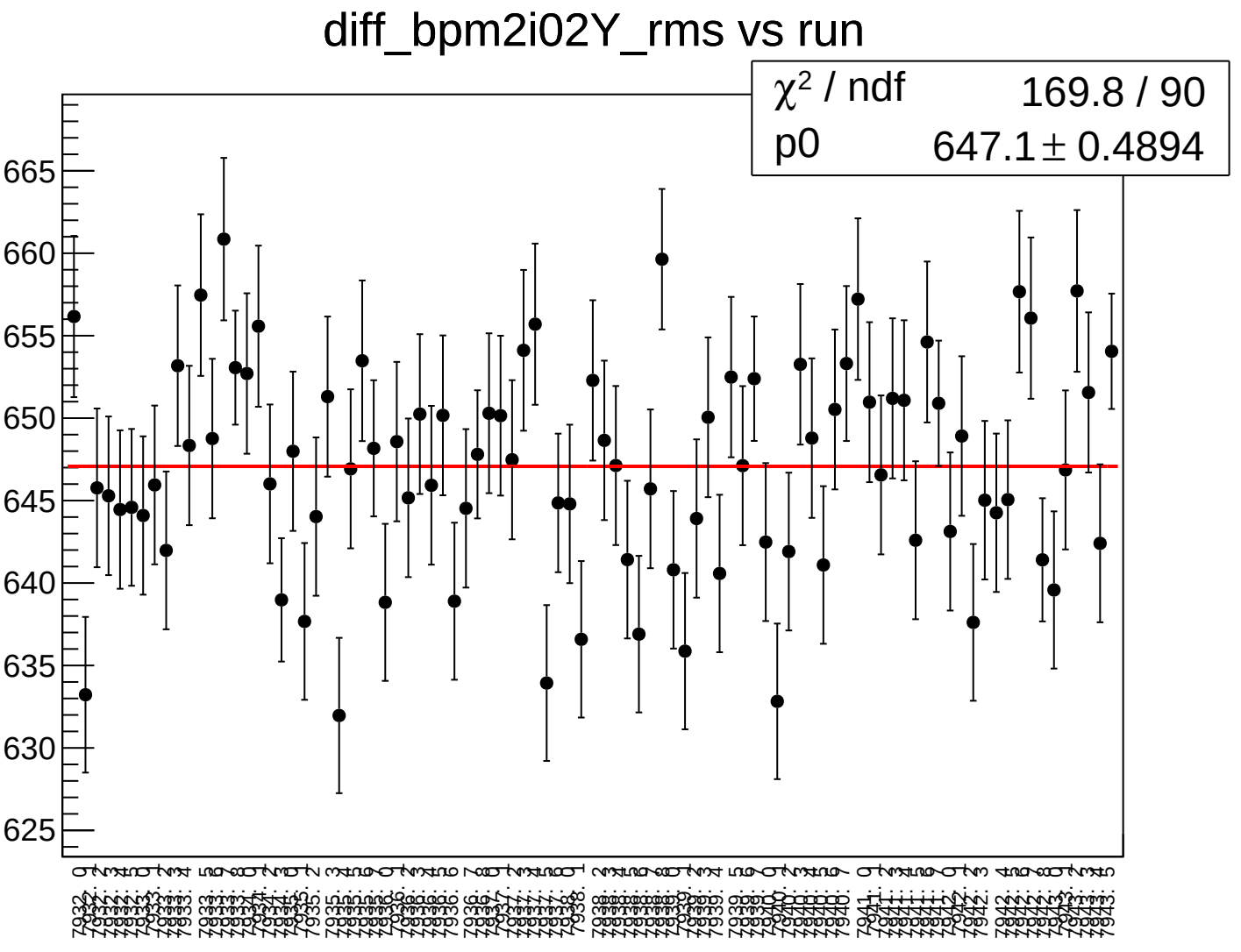

diff_bpm2i02X_mean vs run
χ^2 / ndf 93.77 / 90
p0 15.99 ± 0.7076
pull
Entries 91
Mean −124
Std Dev 0

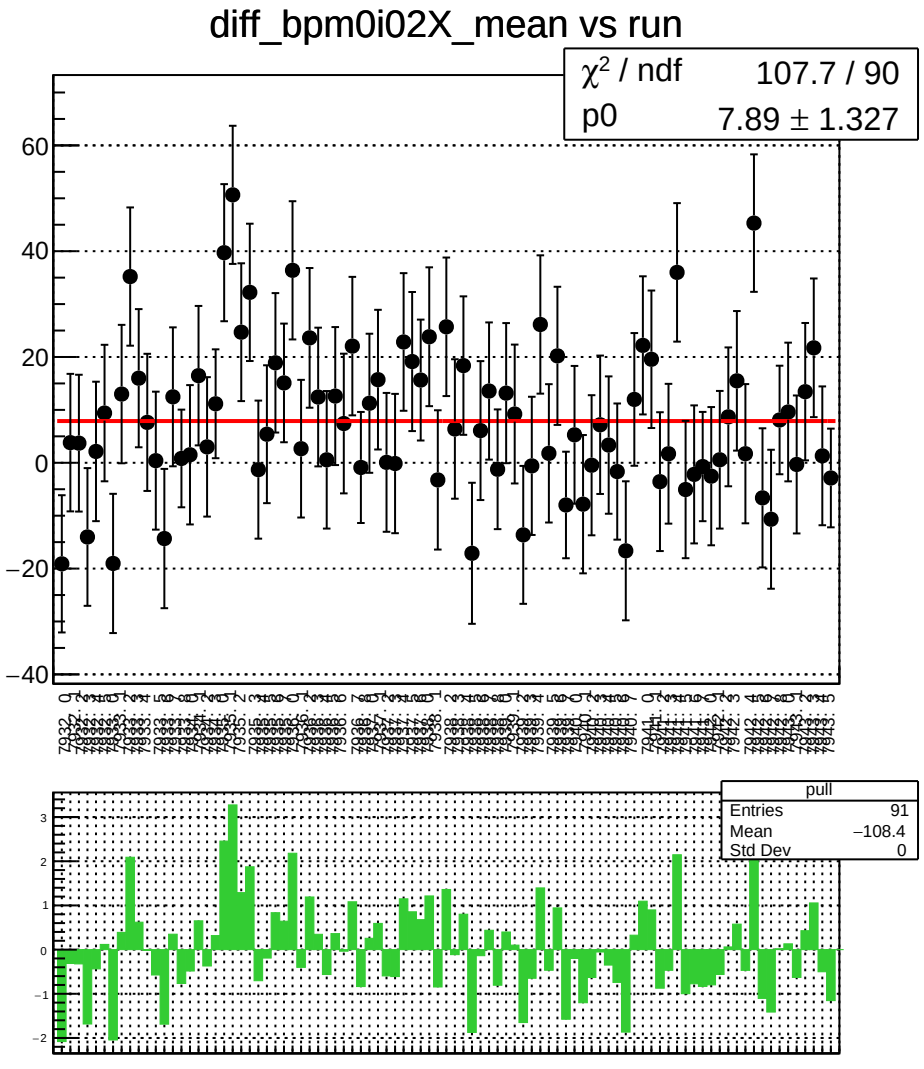

pull1D
Entries 91
Mean −0.008951
Std Dev 1.015

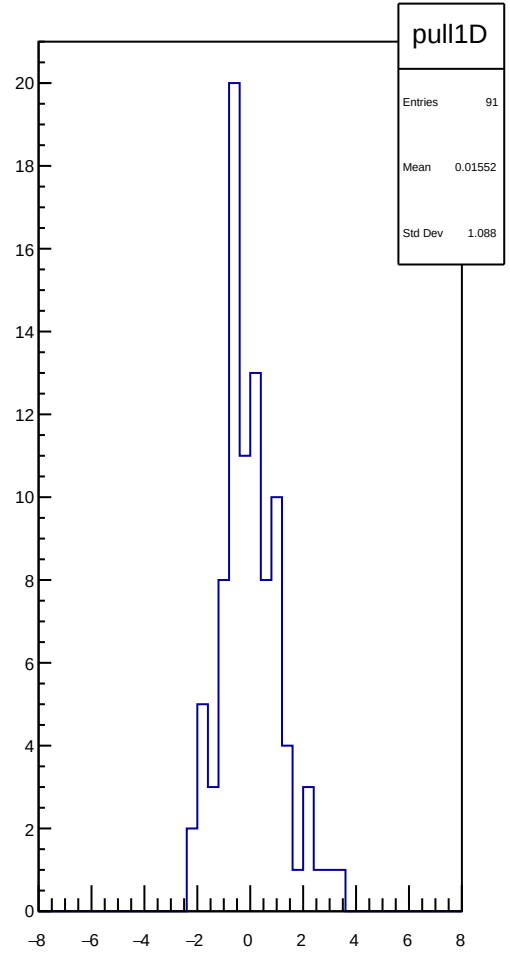

diff_bpm2i02X_rms vs run
χ² / ndf 195.4 / 90
p0 661.5 ± 0.5003
680
670
660
650
640

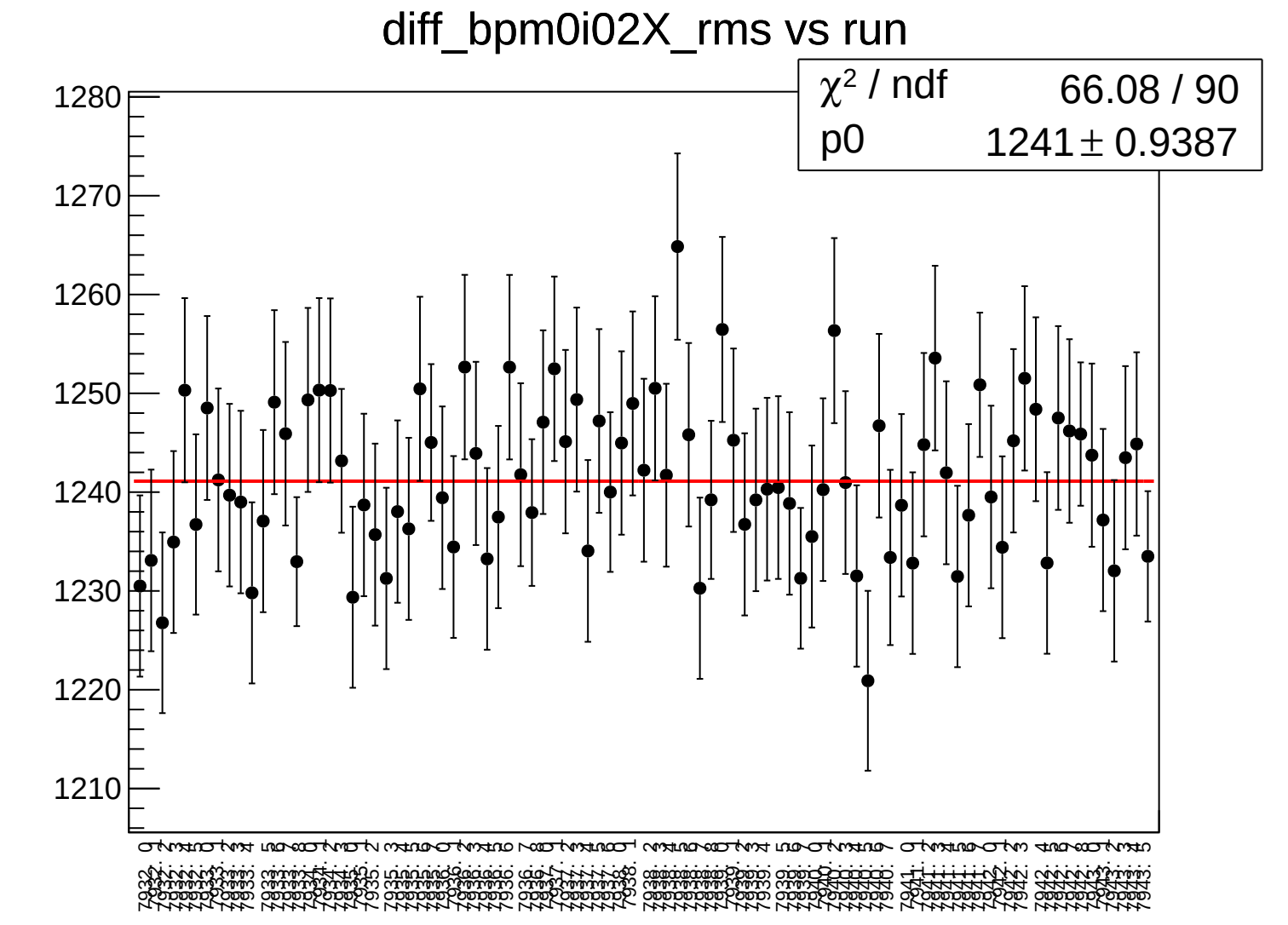

diff_bpm2i02Y_mean vs run
χ² / ndf 110.8 / 90
p0 −2.02 ± 0.6921
pull
Entries 91
Mean −724.3
Std Dev 0

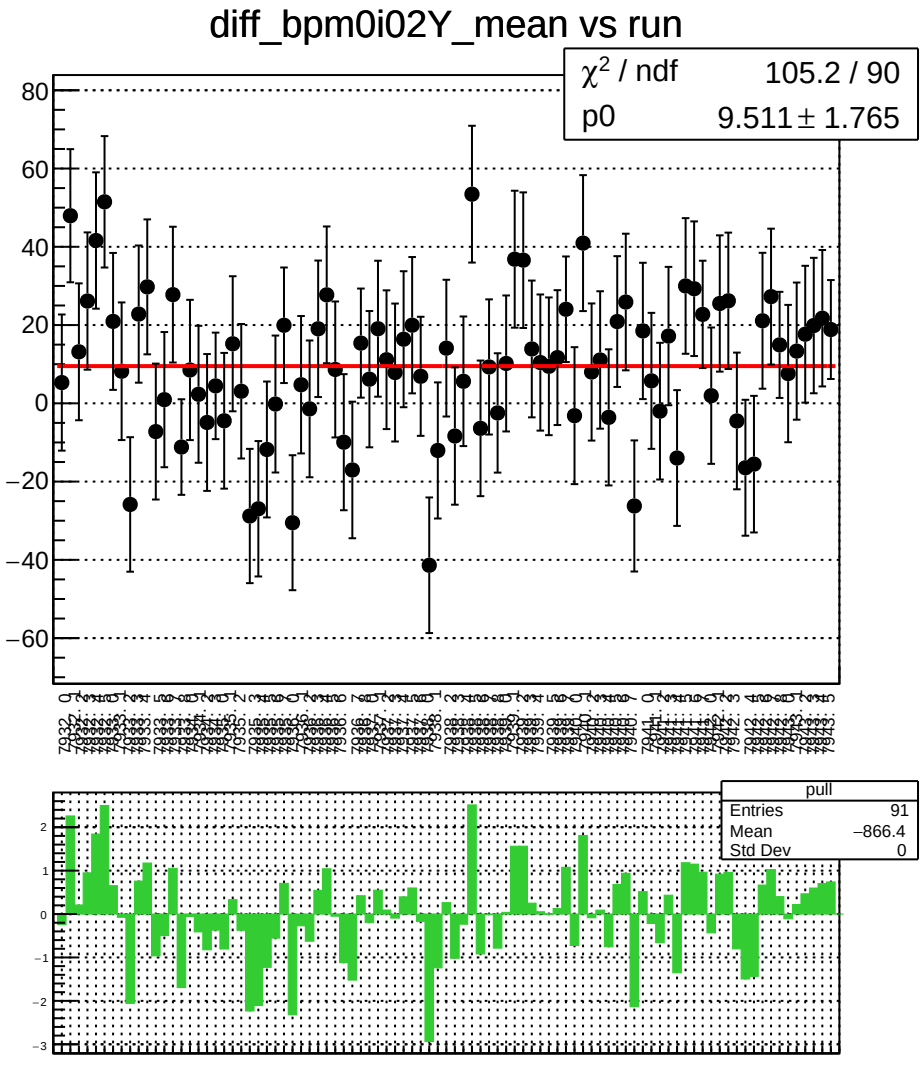

pull1D
Entries 91
Mean −0.01159
Std Dev 1.104

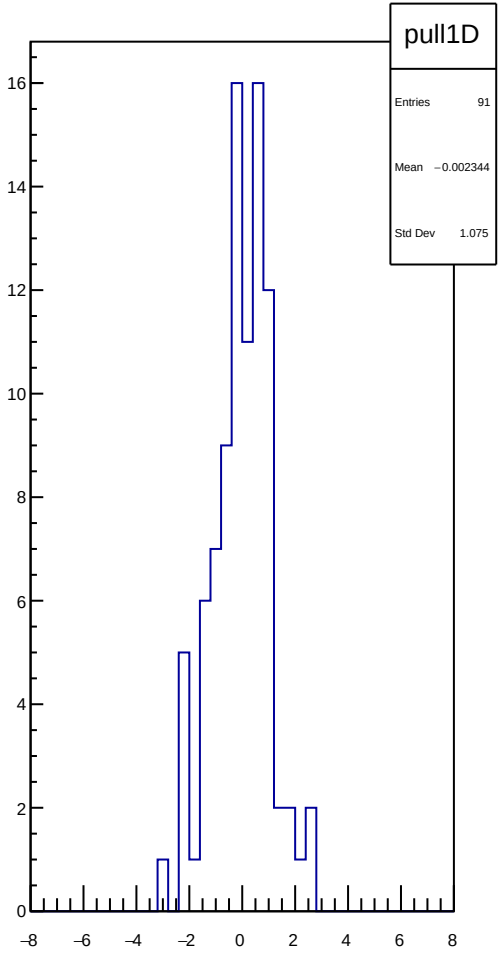

diff_bpm2i02Y_rms vs run
χ² / ndf 169.8 / 90
p0 647.1 ± 0.4894
665
660
655
650
645
640
635
630
625

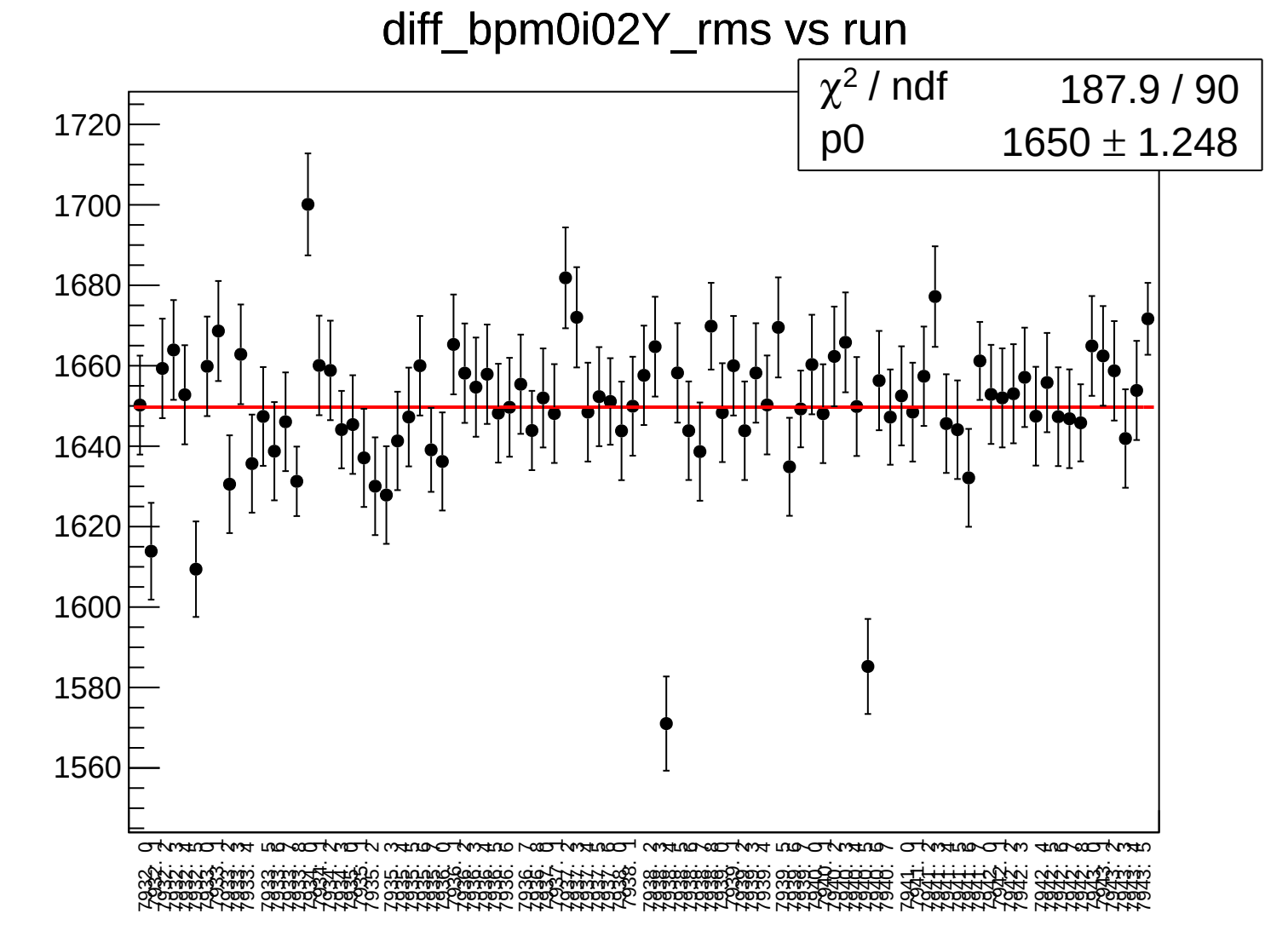

diff_bpm0i02X_mean vs run
χ² / ndf 107.7 / 90
p0 7.89 ± 1.327
pull
Entries 91
Mean −108.4
Std Dev 0

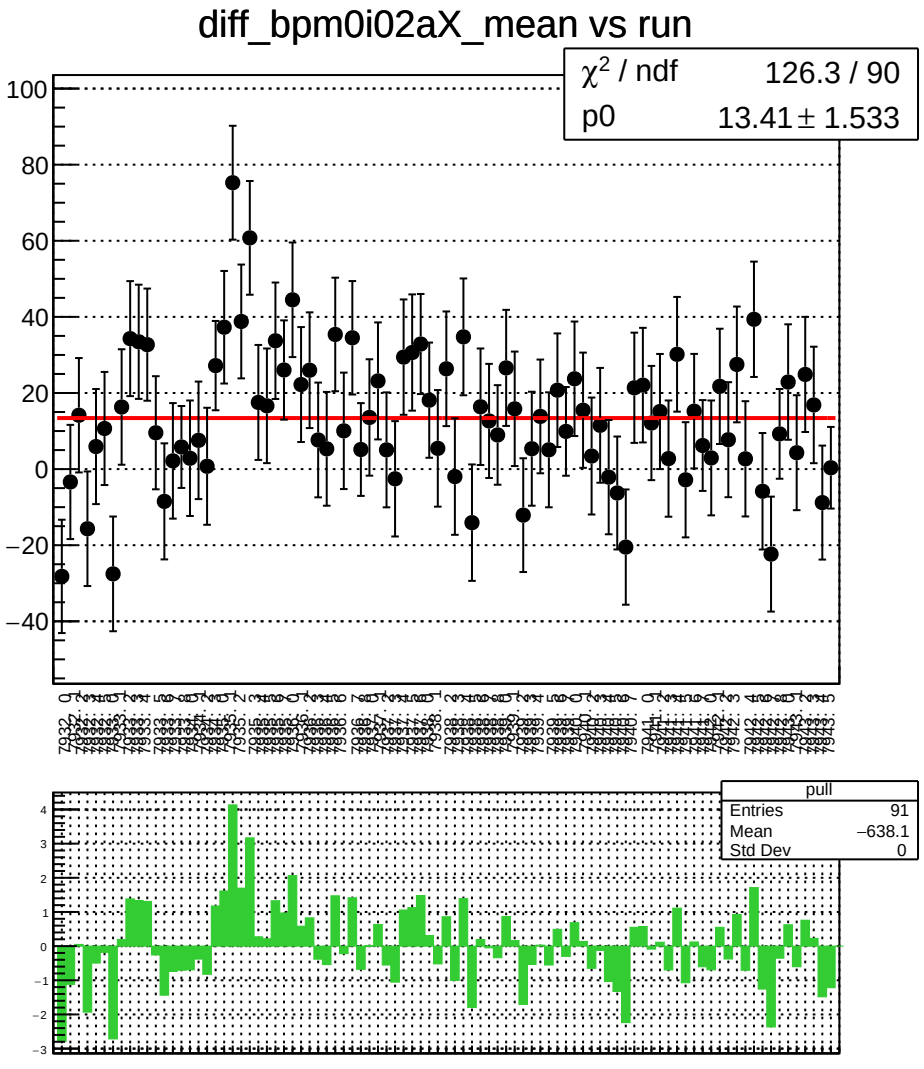

pull1D
Entries 91
Mean 0.01552
Std Dev 1.088

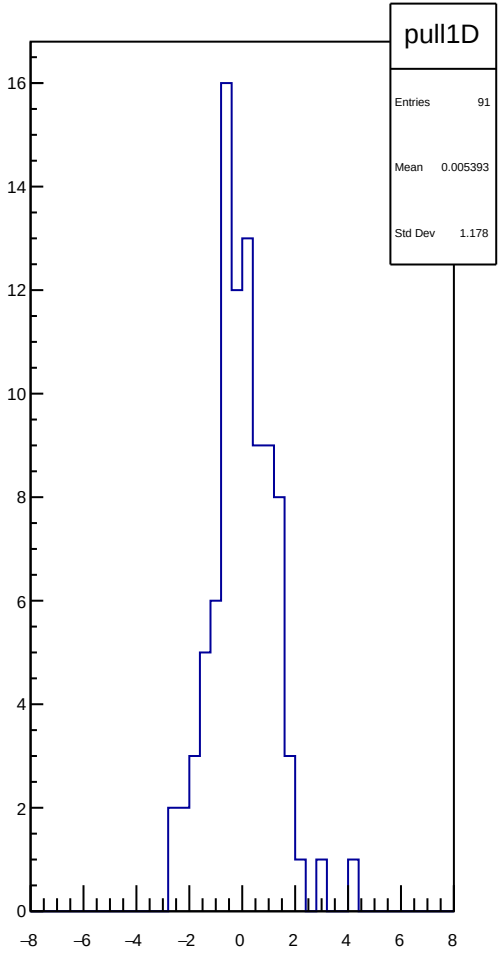

diff_bpm0i02X_rms vs run
χ² / ndf 66.08 / 90
p0 1241 ± 0.9387
1280
1270
1260
1250
1240
1230
1220
1210

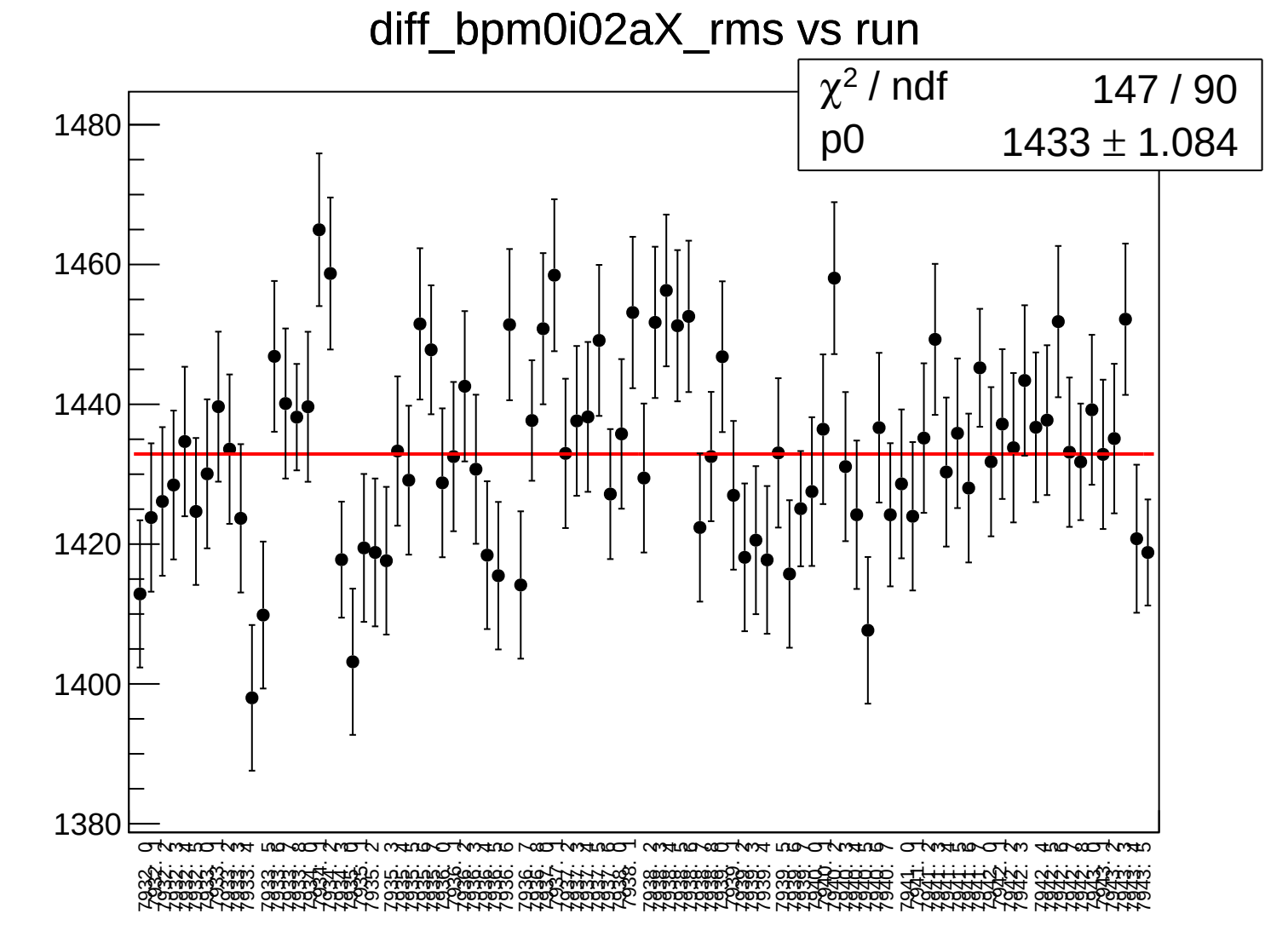

diff_bpm0i02Y_mean vs run
χ² / ndf 105.2 / 90
p0 9.511 ± 1.765
pull
Entries 91
Mean −866.4
Std Dev 0

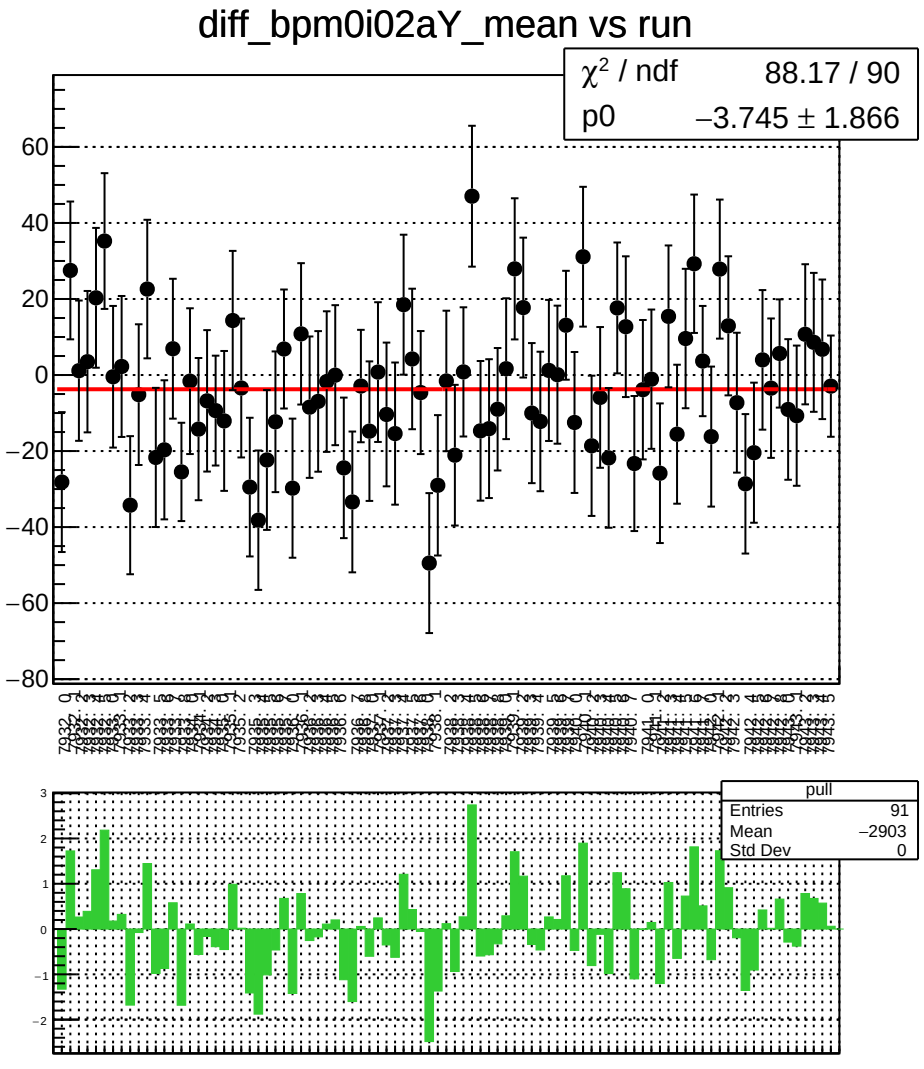

pull1D
Entries 91
Mean −0.002344
Std Dev 1.075

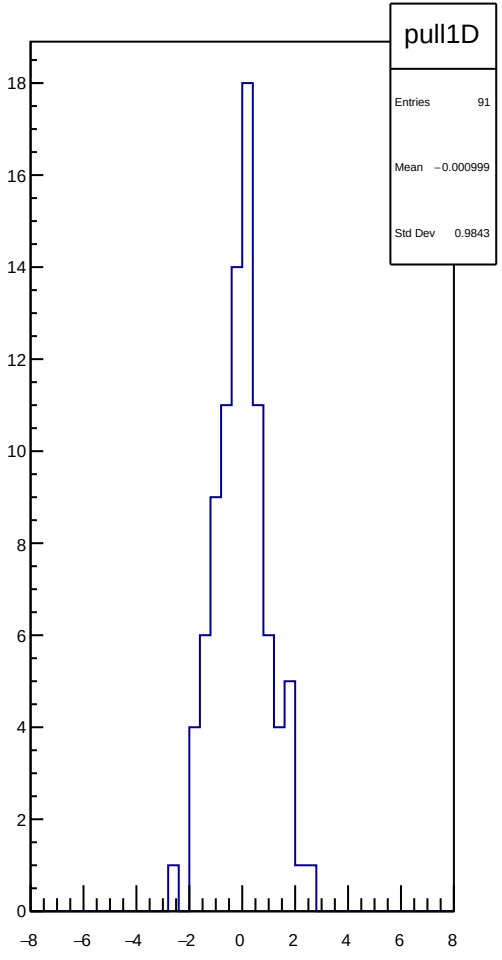

diff_bpm0i02Y_rms vs run
χ² / ndf 187.9 / 90
p0 1650 ± 1.248
1720
1700
1680
1660
1640
1620
1600
1580
1560

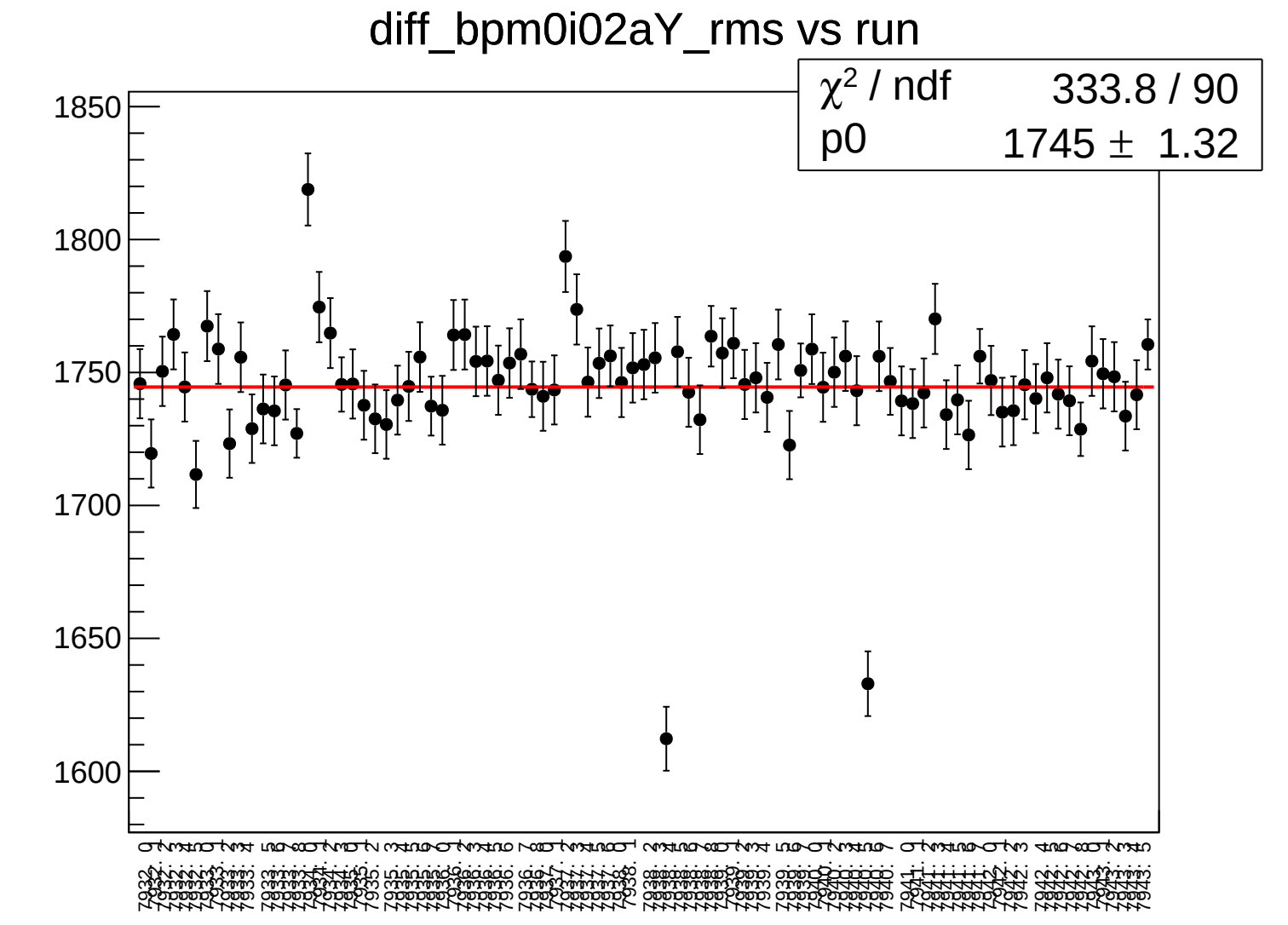

diff_bpm0i02aX_mean vs run
χ^2 / ndf 126.3 / 90
p0 13.41 ± 1.533
pull
Entries 91
Mean −638.1
Std Dev 0

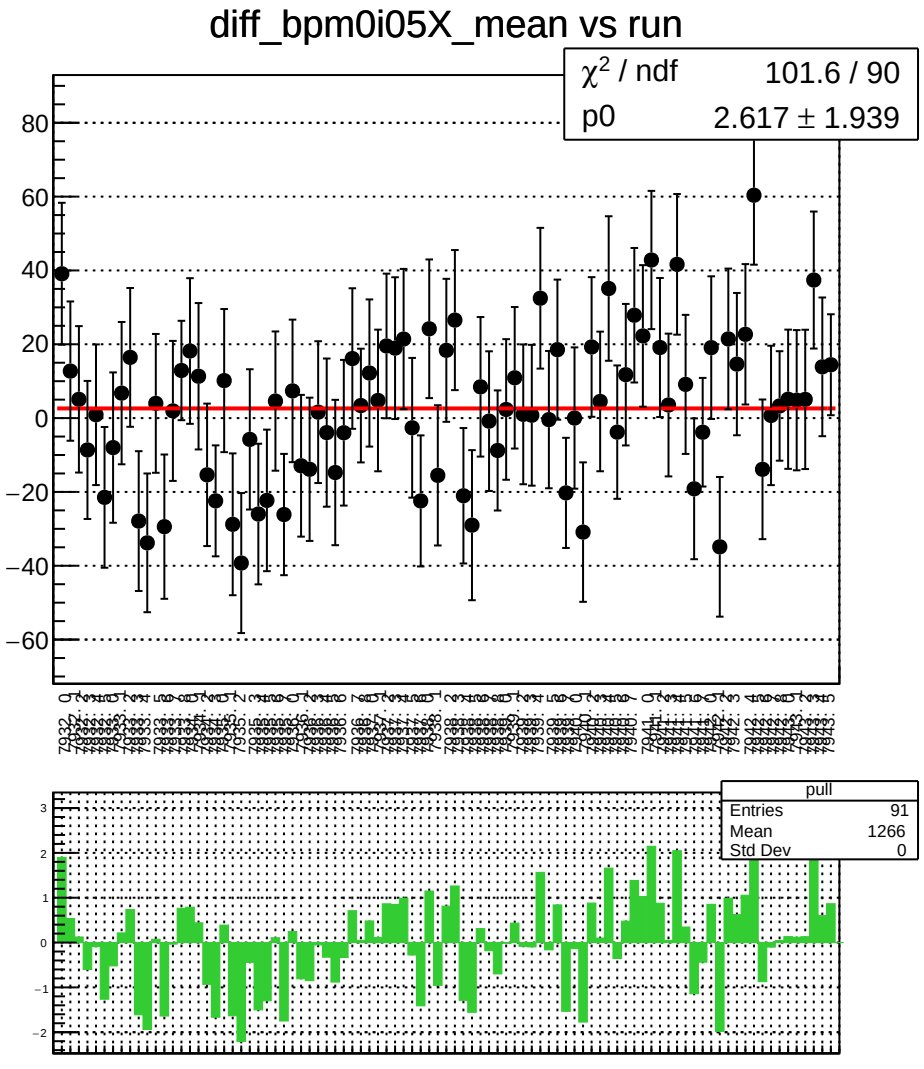

pull1D
Entries 91
Mean 0.005393
Std Dev 1.178

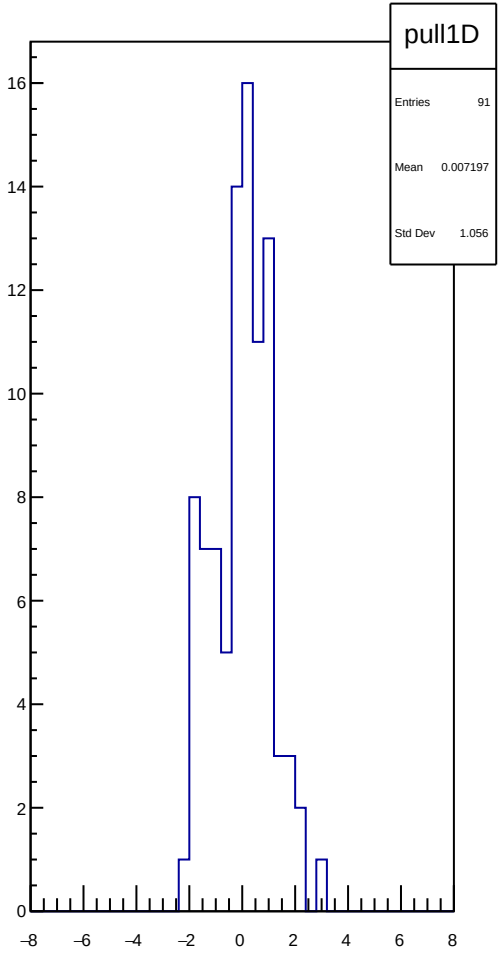

diff_bpm0i02aX_rms vs run
χ² / ndf 147 / 90
p0 1433 ± 1.084
1480
1460
1440
1420
1400
1380

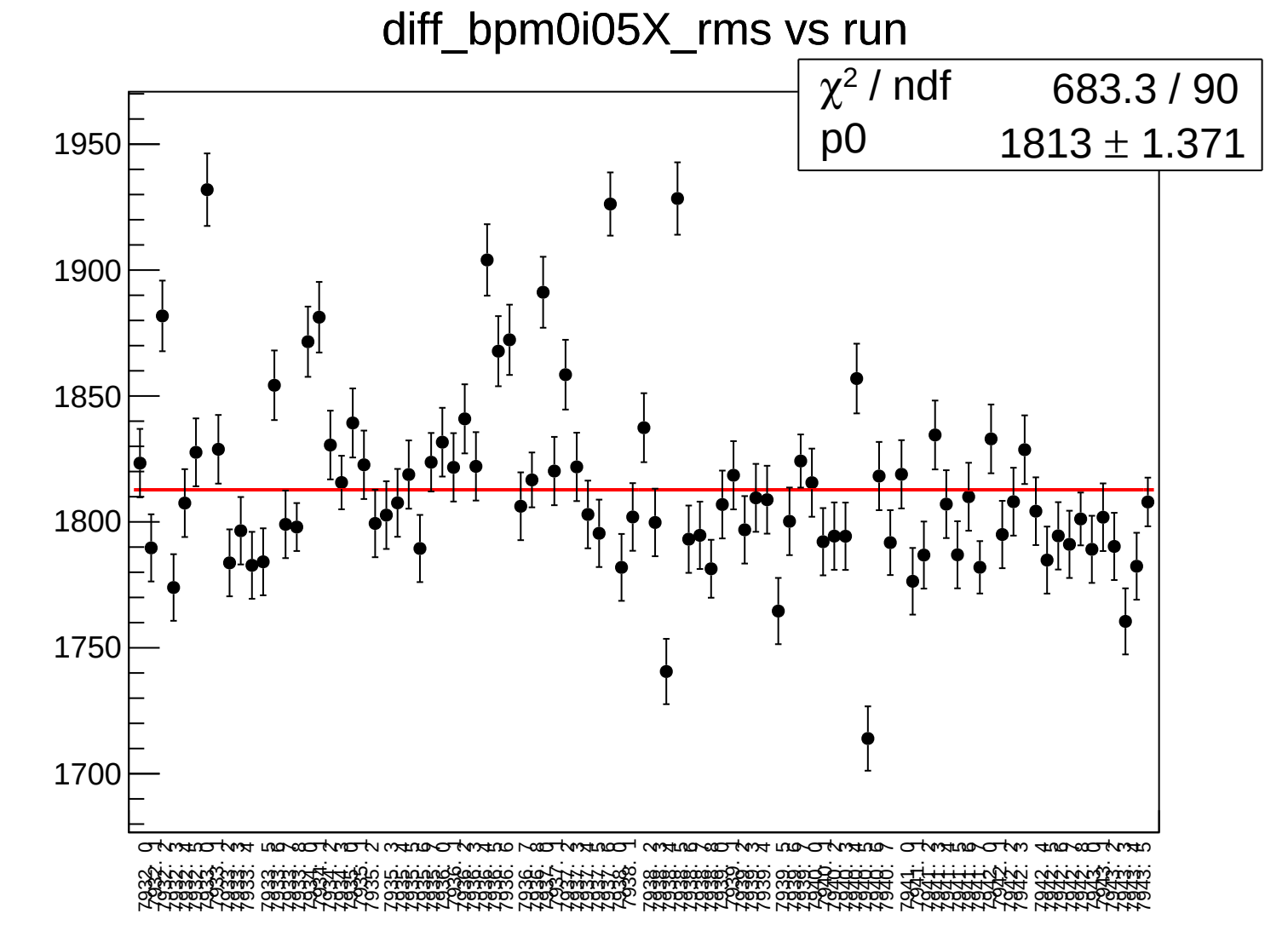

diff_bpm0i02aY_mean vs run
χ² / ndf 88.17 / 90
p0 −3.745 ± 1.866
pull
Entries 91
Mean −2903
Std Dev 0

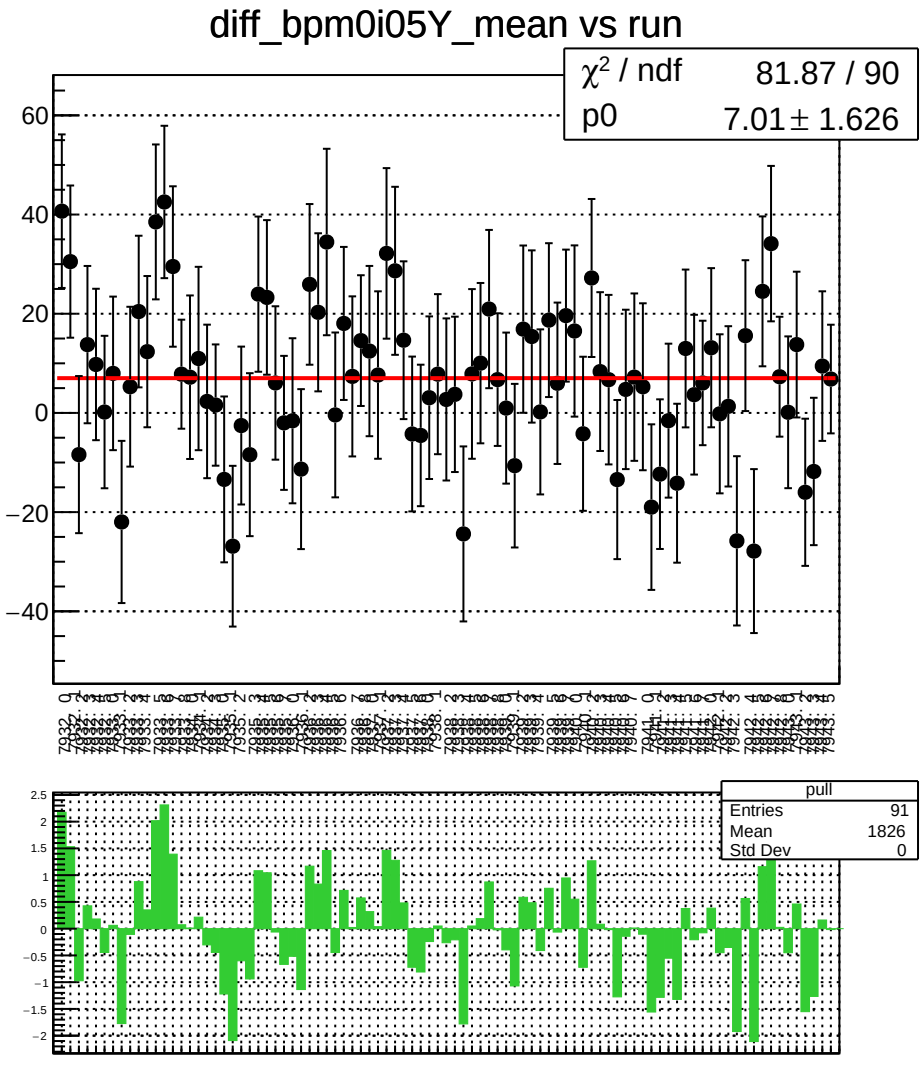

pull1D
Entries 91
Mean −0.000999
Std Dev 0.9843

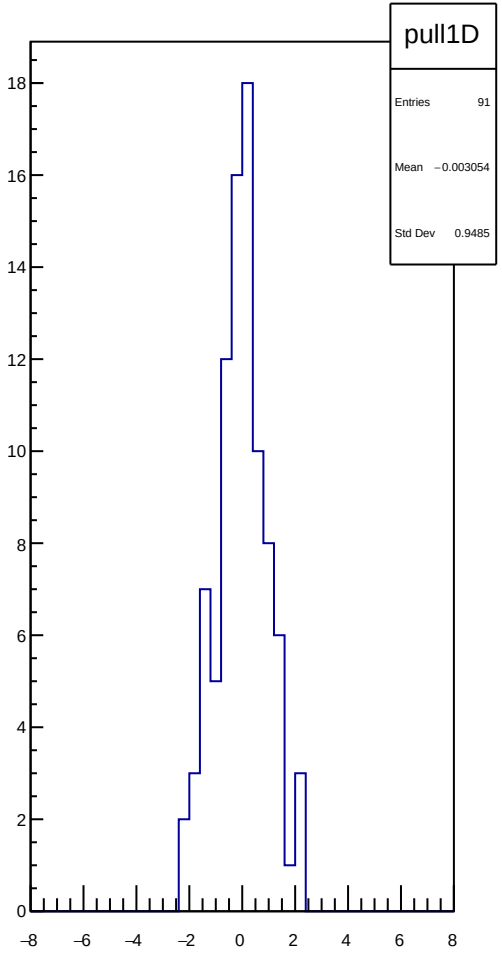

diff_bpm0i02aY_rms vs run
χ² / ndf 333.8 / 90
p0 1745 ± 1.32
1850
1800
1750
1700
1650
1600

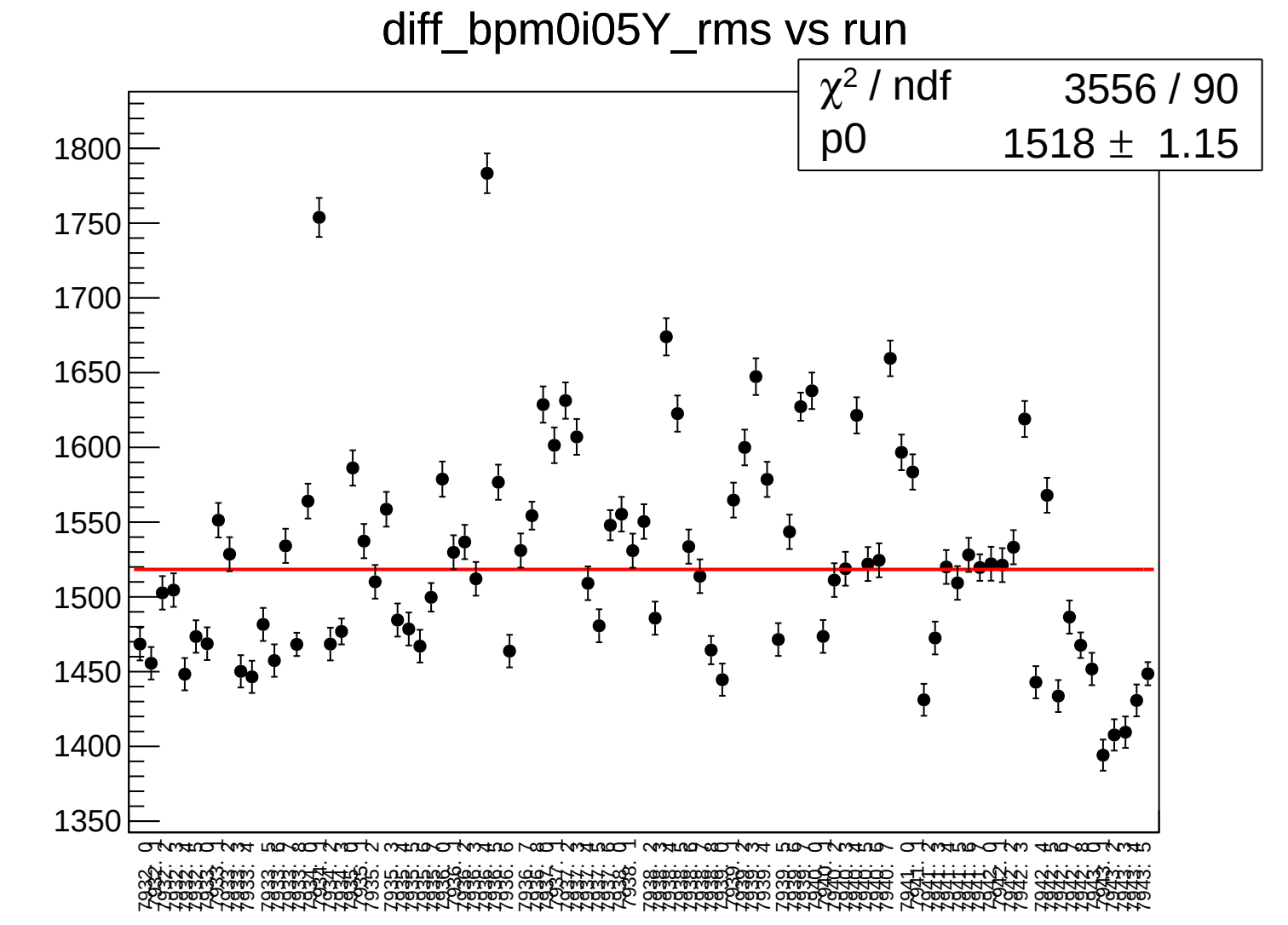

diff_bpm0i05X_mean vs run
χ² / ndf 101.6 / 90
p0 2.617 ± 1.939
pull
Entries 91
Mean 1266
Std Dev 0

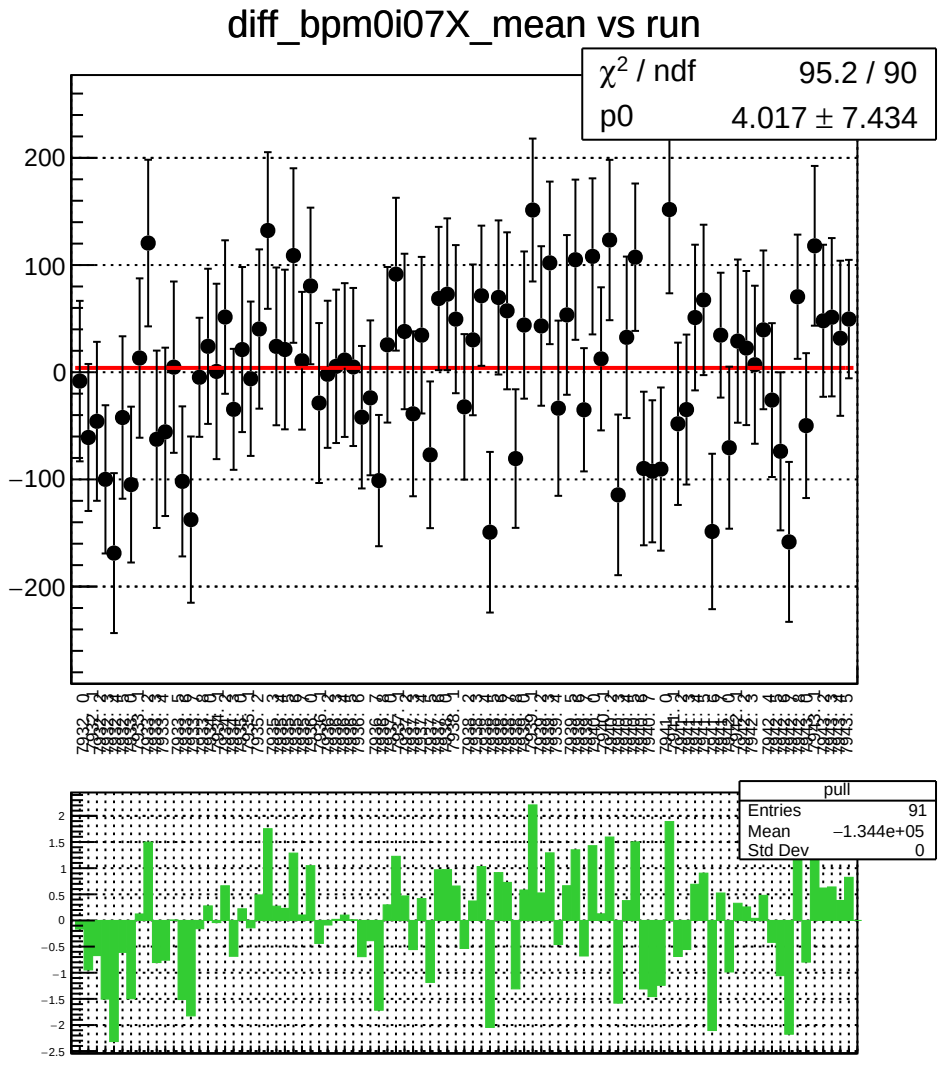

pull1D
Entries 91
Mean 0.007197
Std Dev 1.056

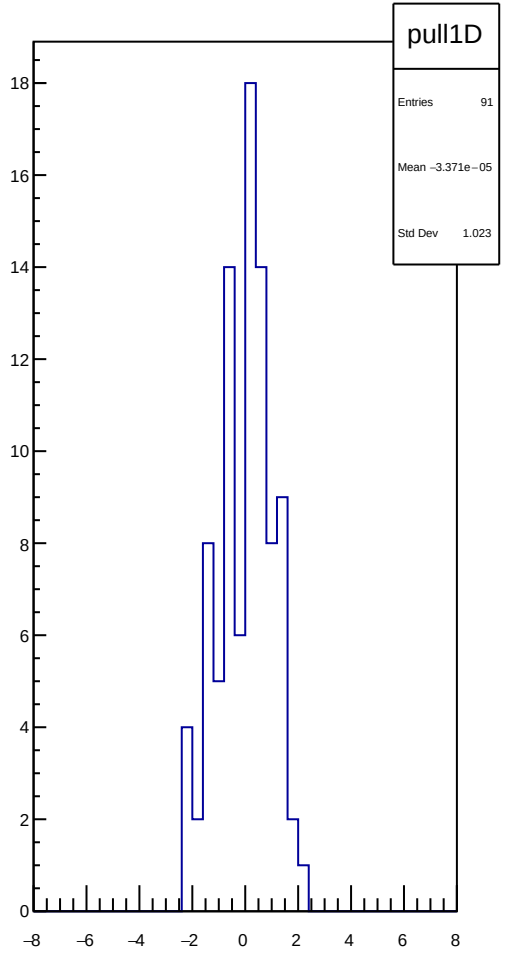

diff_bpm0i05X_rms vs run
χ² / ndf 683.3 / 90
p0 1813 ± 1.371
1950
1900
1850
1800
1750
1700

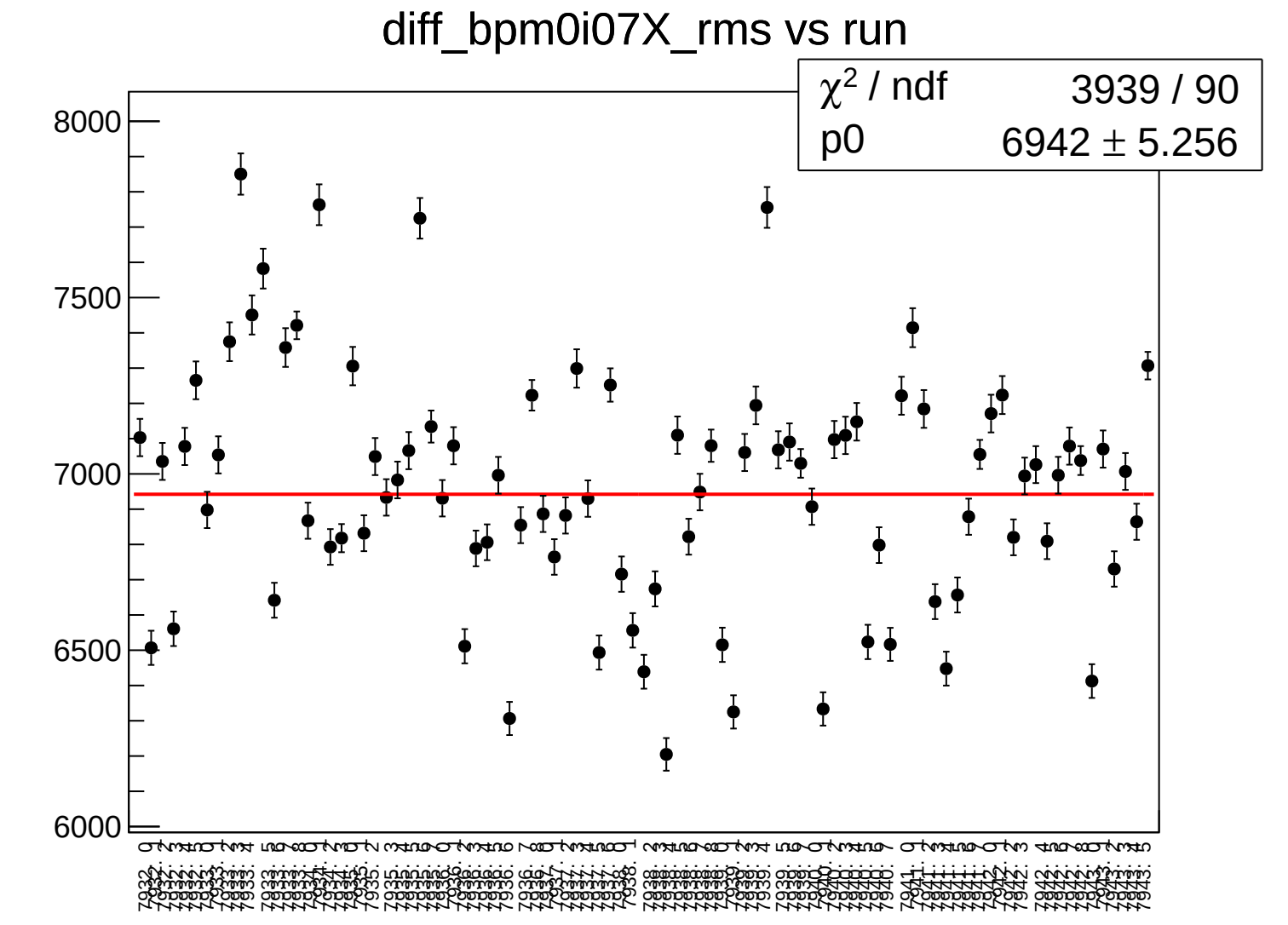

diff_bpm0i05Y_mean vs run
χ^2 / ndf 81.87 / 90
p0 7.01 ± 1.626
pull
Entries 91
Mean 1826
Std Dev 0

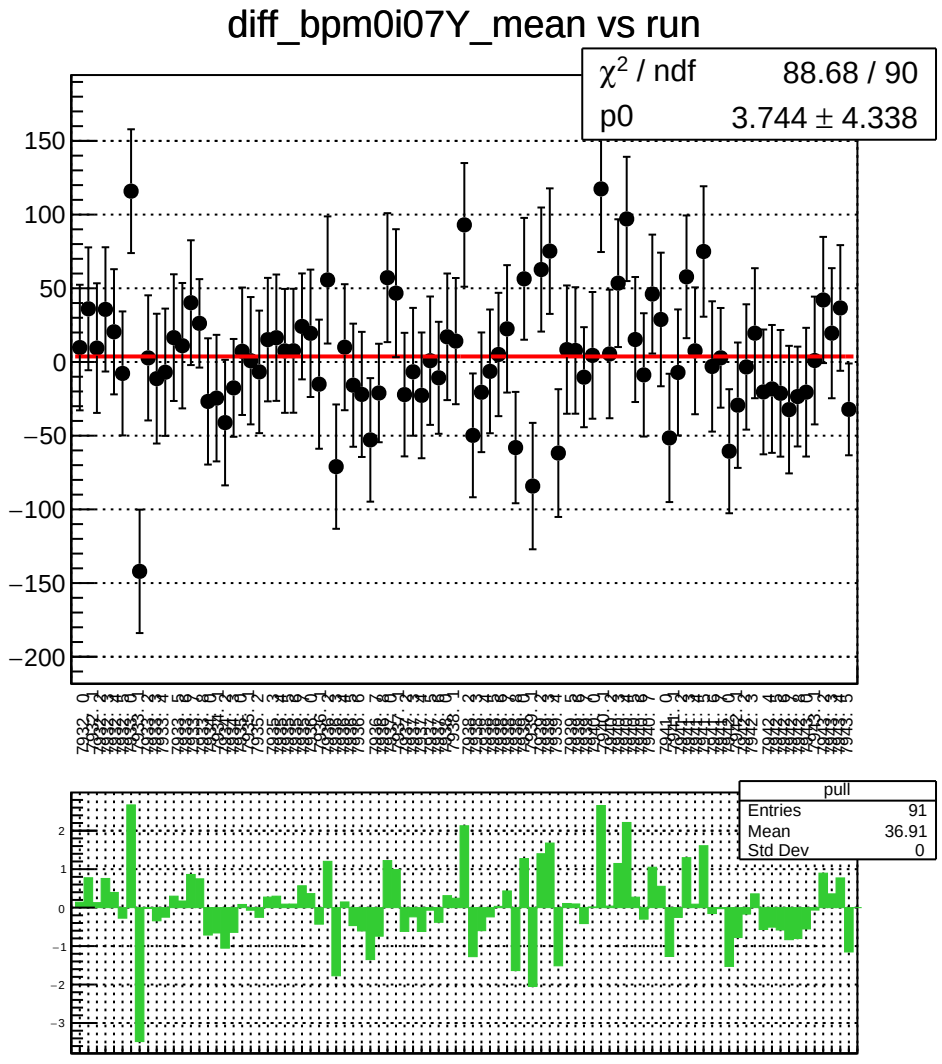

pull1D
Entries 91
Mean −0.003054
Std Dev 0.9485

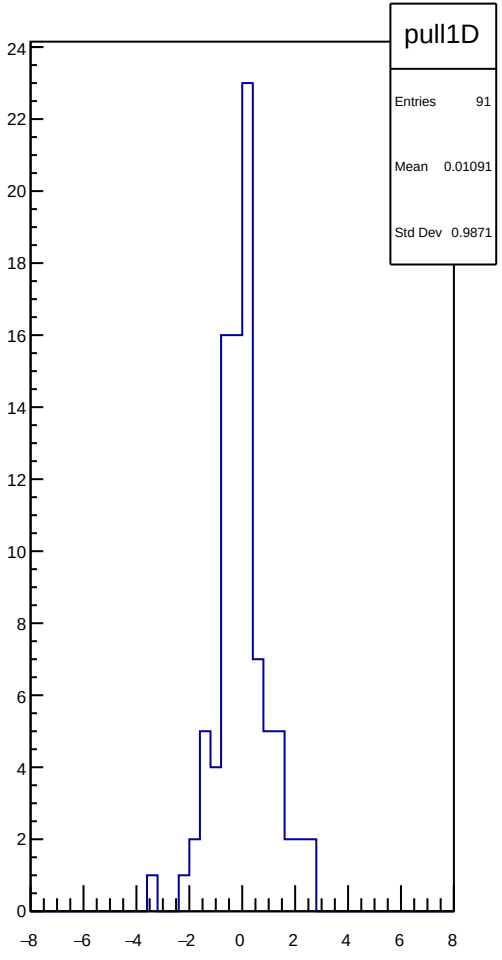

diff_bpm0i05Y_rms vs run
χ² / ndf 3556 / 90
p0 1518 ± 1.15
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

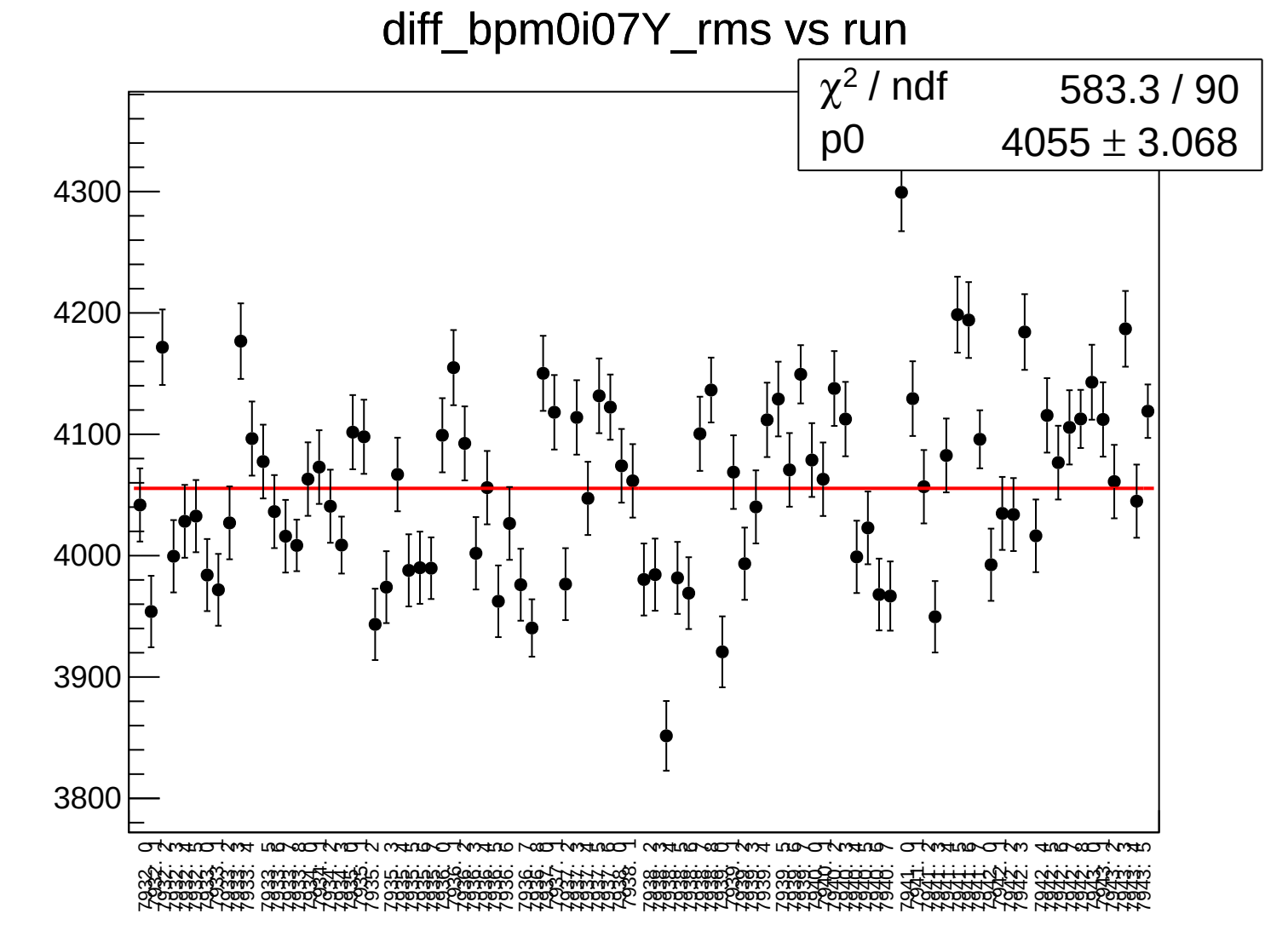

diff_bpm0i07X_mean vs run
χ² / ndf 95.2 / 90
p0 4.017 ± 7.434
200
100
0
−100
−200
pull
Entries 91
Mean −1.344e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

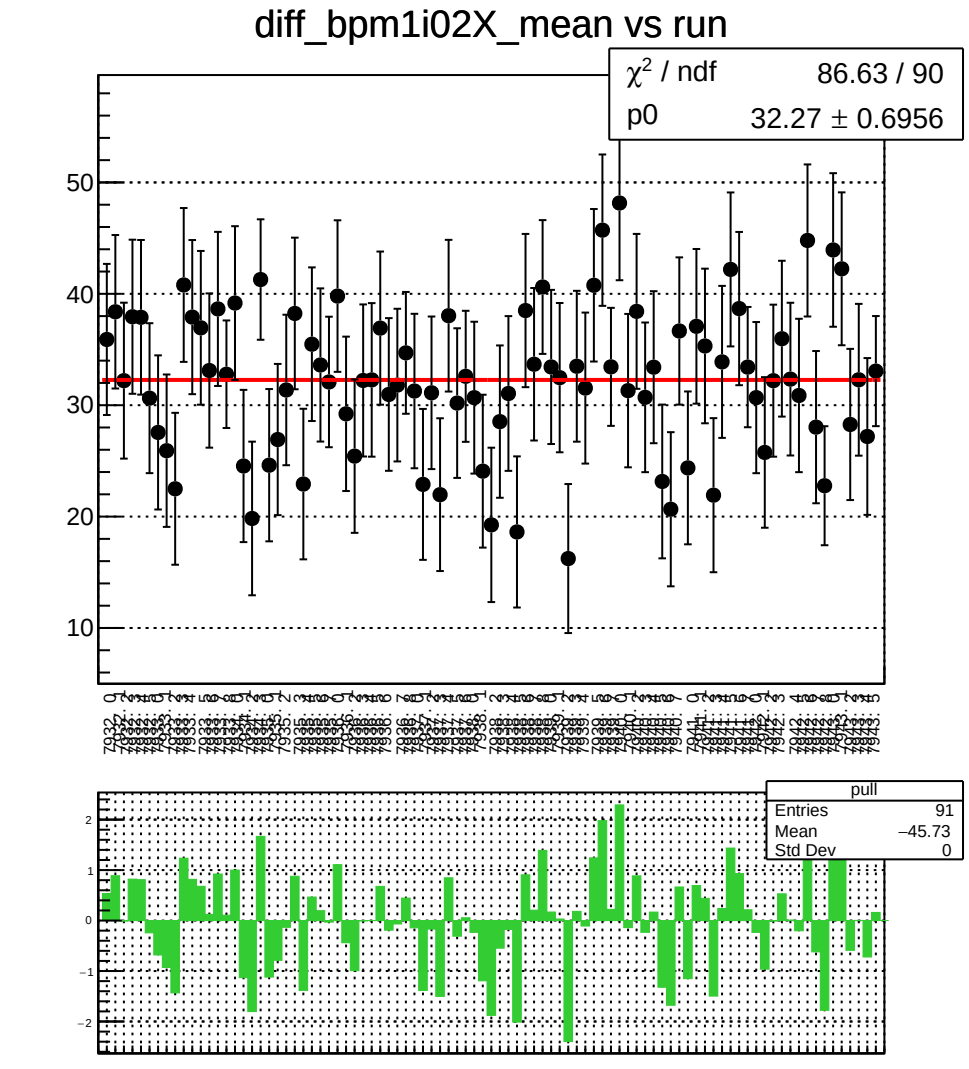

pull1D
Entries 91
Mean −3.371e−05
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

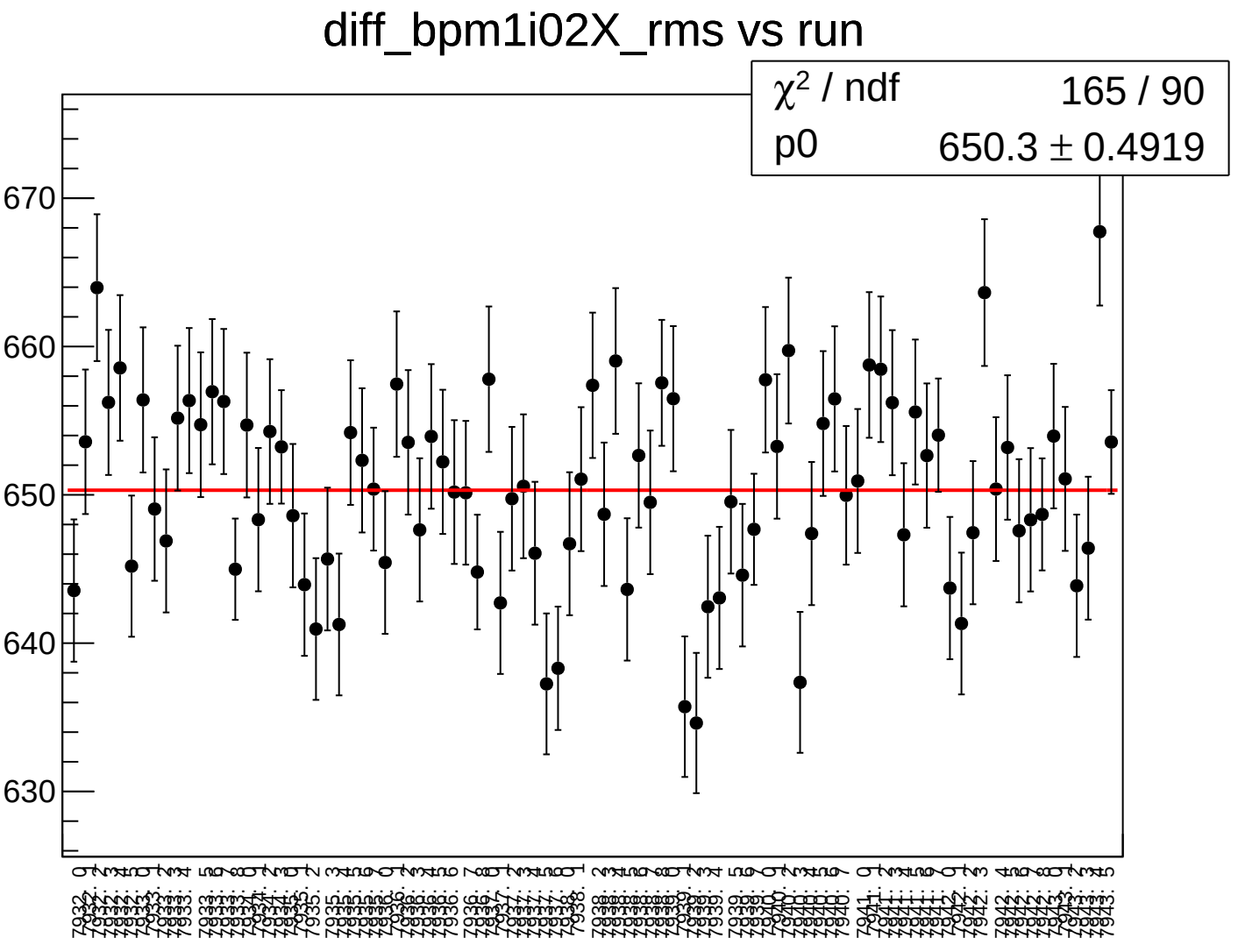

diff_bpm0i07X_rms vs run
χ² / ndf 3939 / 90
p0 6942 ± 5.256
8000
7500
7000
6500
6000

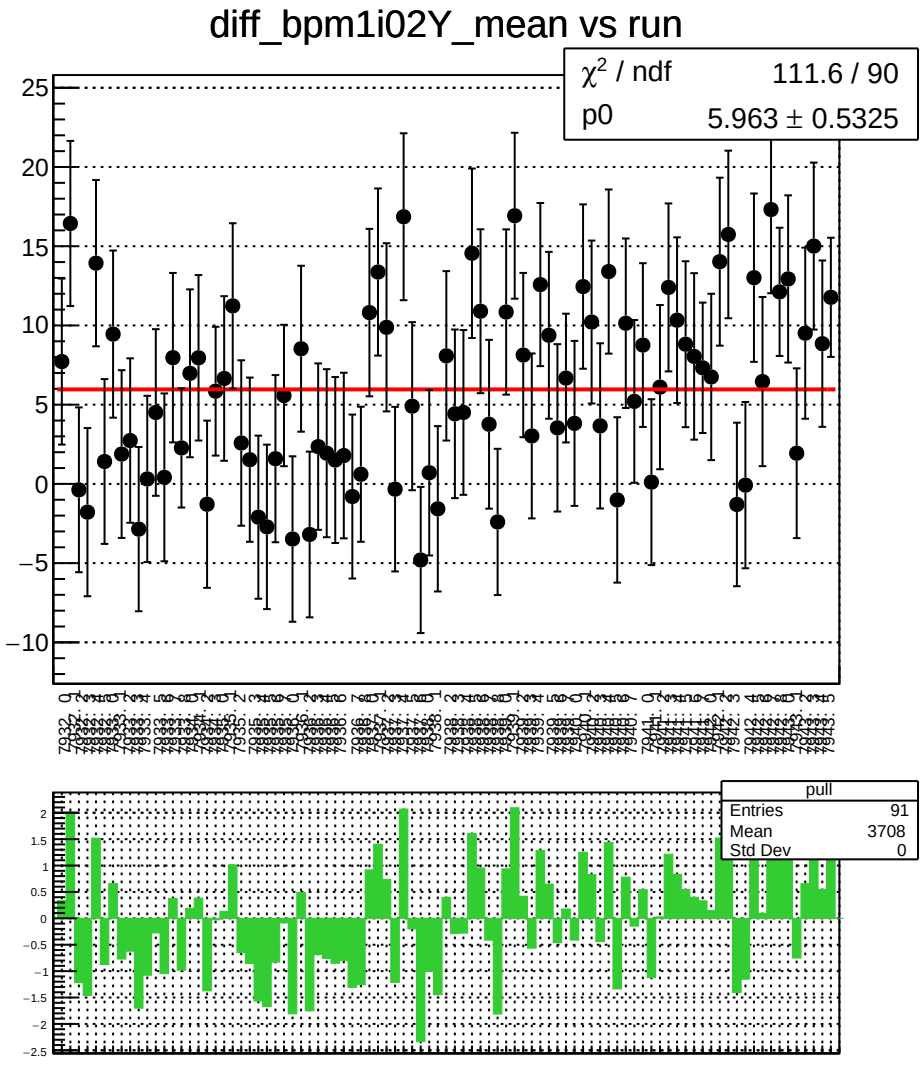

diff_bpm0i07Y_mean vs run
χ^2 / ndf 88.68 / 90
p0 3.744 ± 4.338
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean 36.91
Std Dev 0
2
1
0
−1
−2
−3

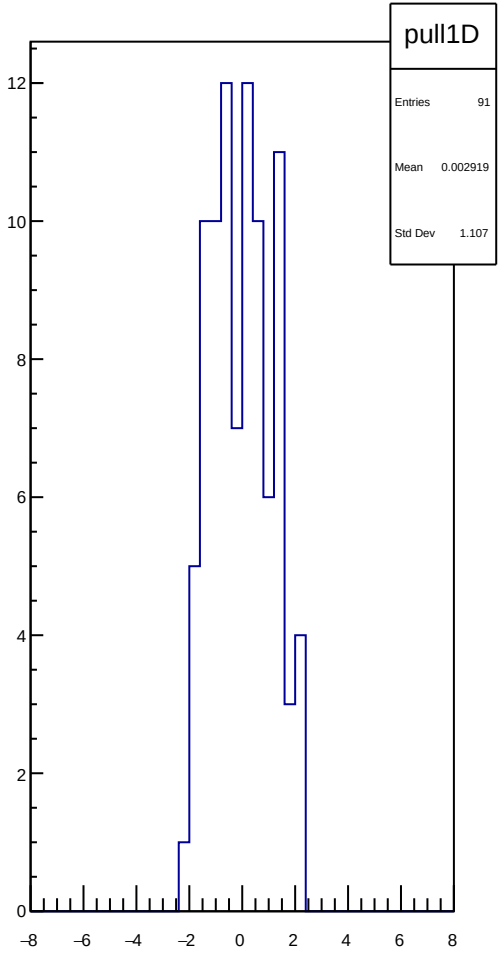

pull1D
Entries 91
Mean 0.01091
Std Dev 0.9871
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

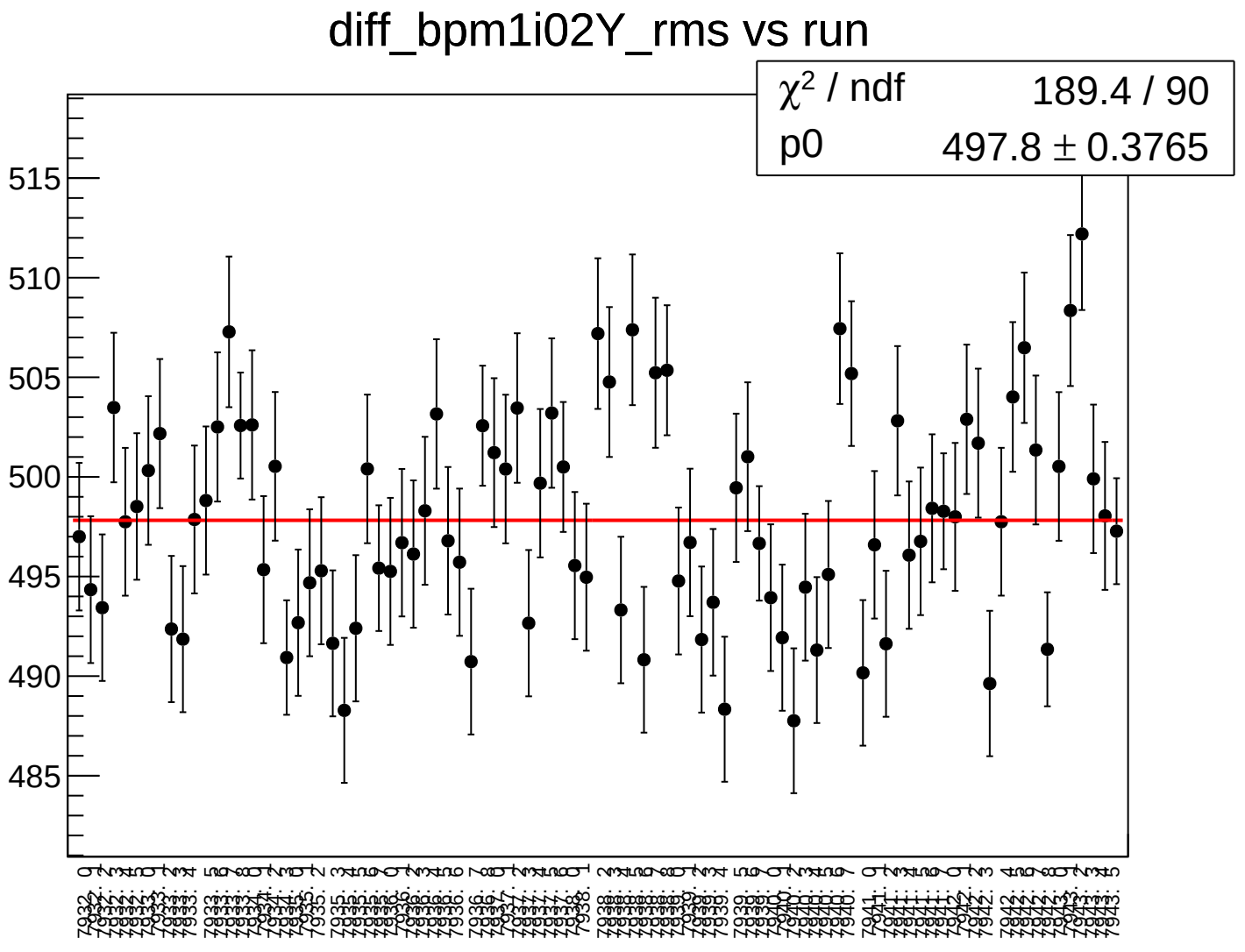

diff_bpm0i07Y_rms vs run
χ² / ndf 583.3 / 90
p0 4055 ± 3.068
4300
4200
4100
4000
3900
3800

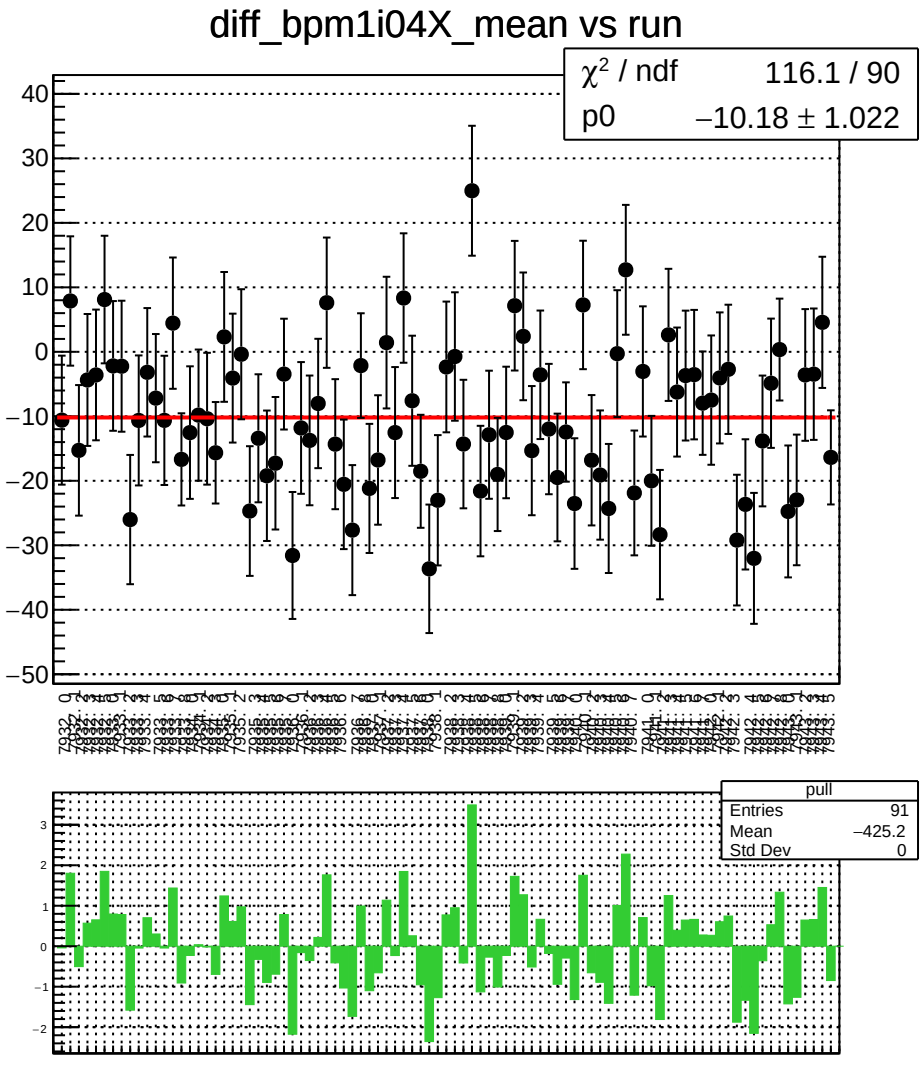

diff_bpm1i02X_mean vs run
χ² / ndf 86.63 / 90
p0 32.27 ± 0.6956
pull
Entries 91
Mean −45.73
Std Dev 0
pull1D
Entries 91
Mean −0.003692
Std Dev 0.9757

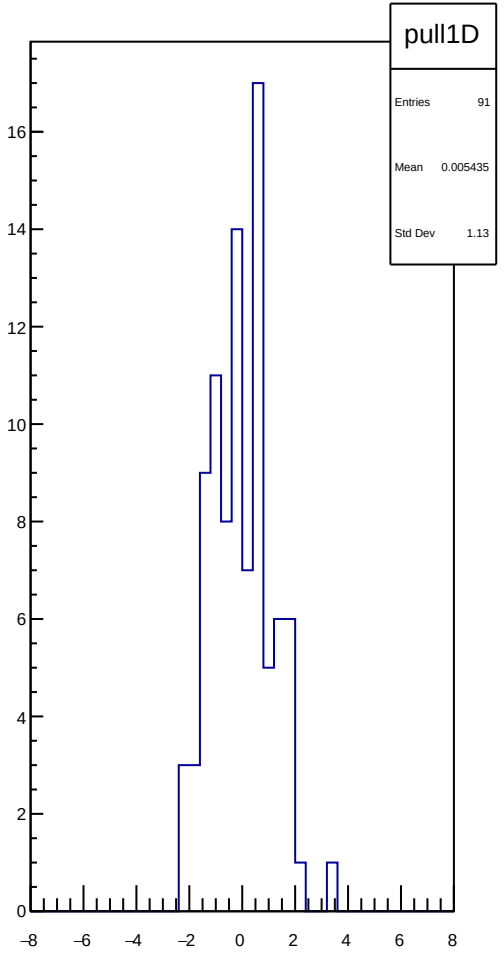

diff_bpm1i02X_rms vs run
χ² / ndf 165 / 90
p0 650.3 ± 0.4919
670
660
650
640
630

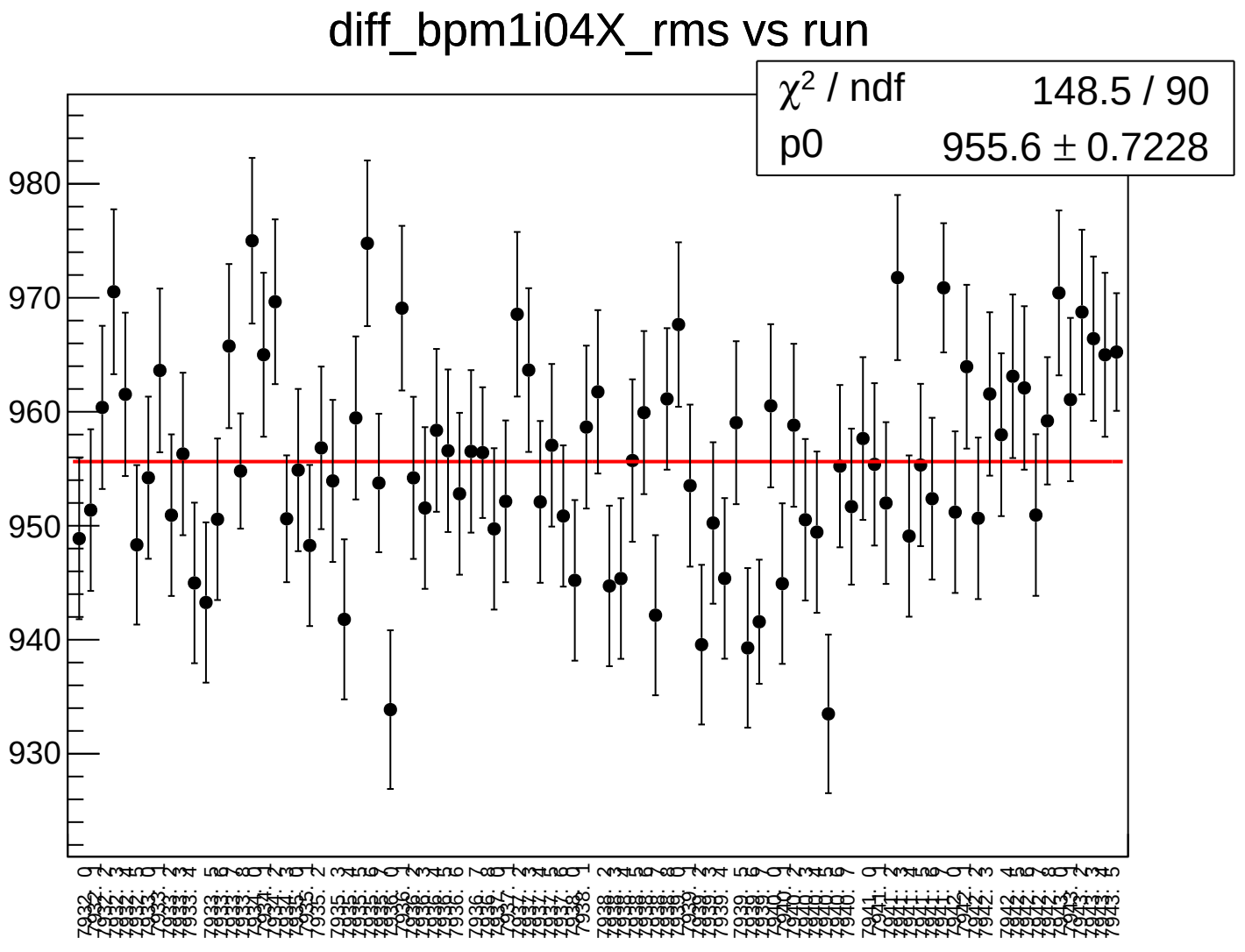

diff_bpm1i02Y_mean vs run
χ² / ndf 111.6 / 90
p0 5.963 ± 0.5325
pull
Entries 91
Mean 3708
Std Dev 0

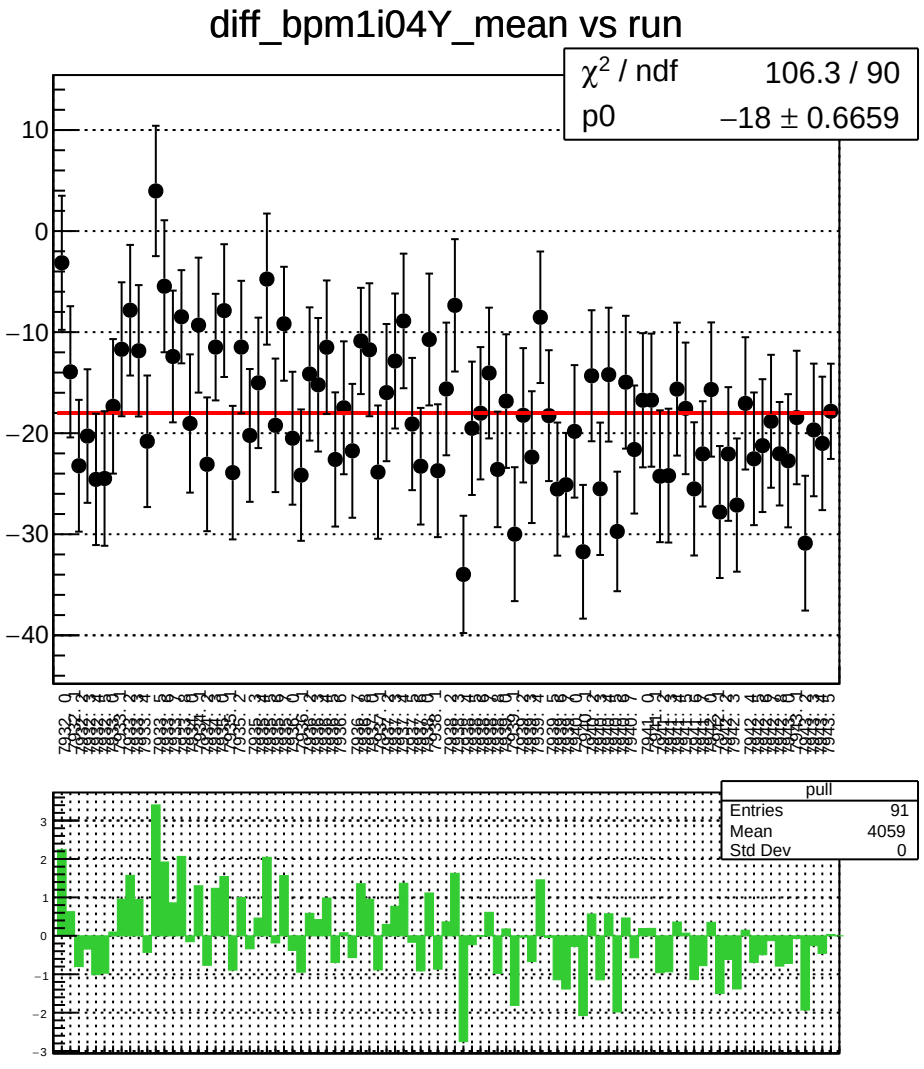

pull1D
Entries 91
Mean 0.002919
Std Dev 1.107

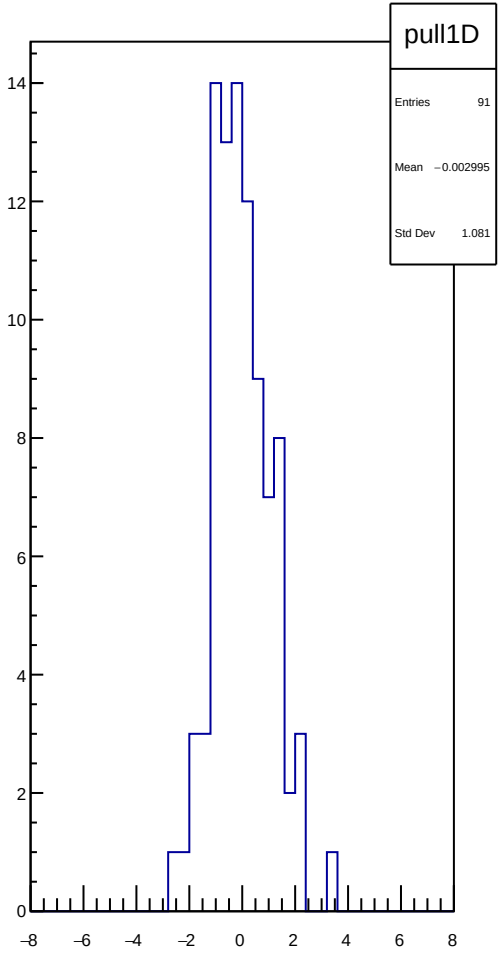

diff_bpm1i02Y_rms vs run
χ² / ndf 189.4 / 90
p0 497.8 ± 0.3765
515
510
505
500
495
490
485

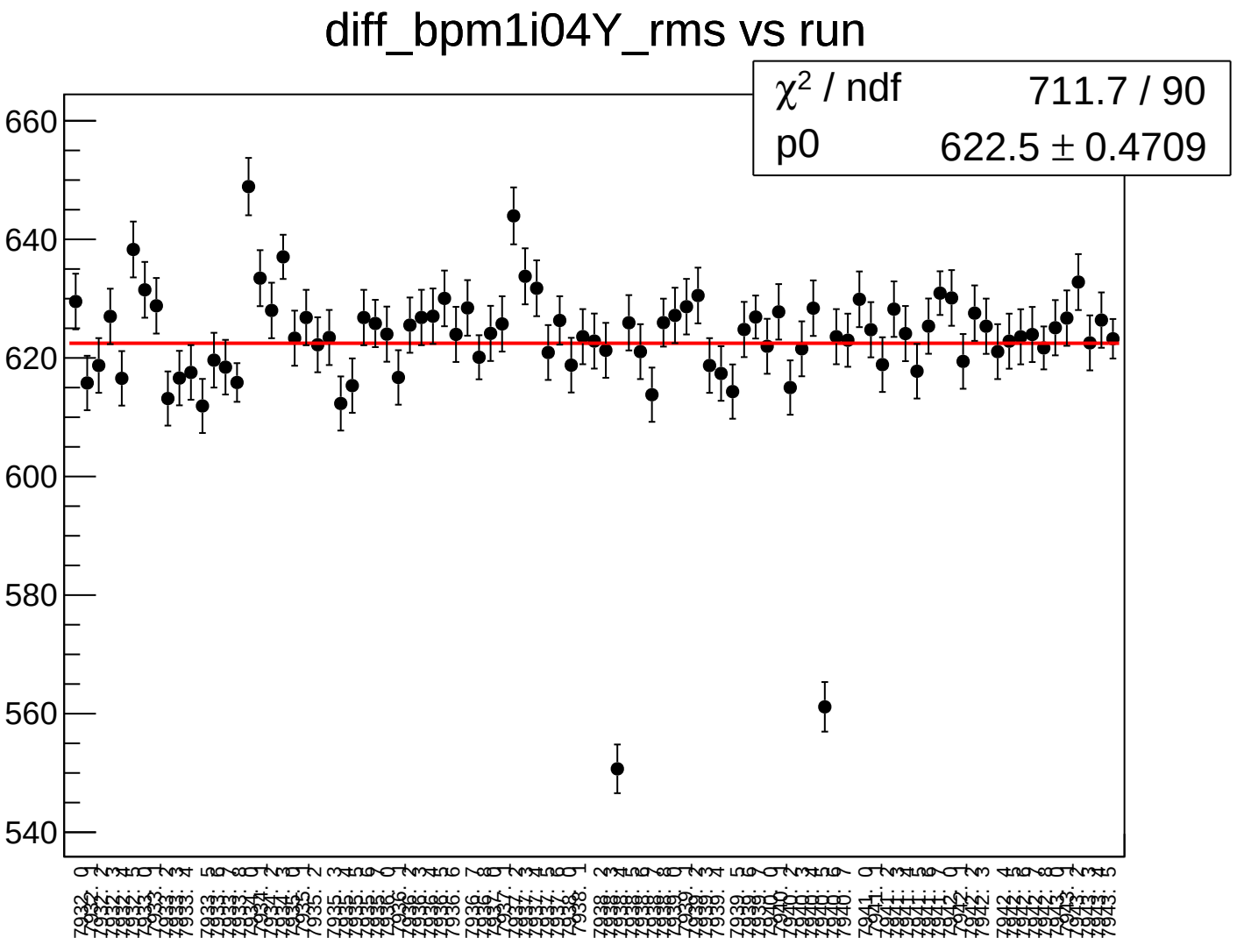

diff_bpm1i04X_mean vs run
χ² / ndf 116.1 / 90
p0 −10.18 ± 1.022
pull
Entries 91
Mean −425.2
Std Dev 0

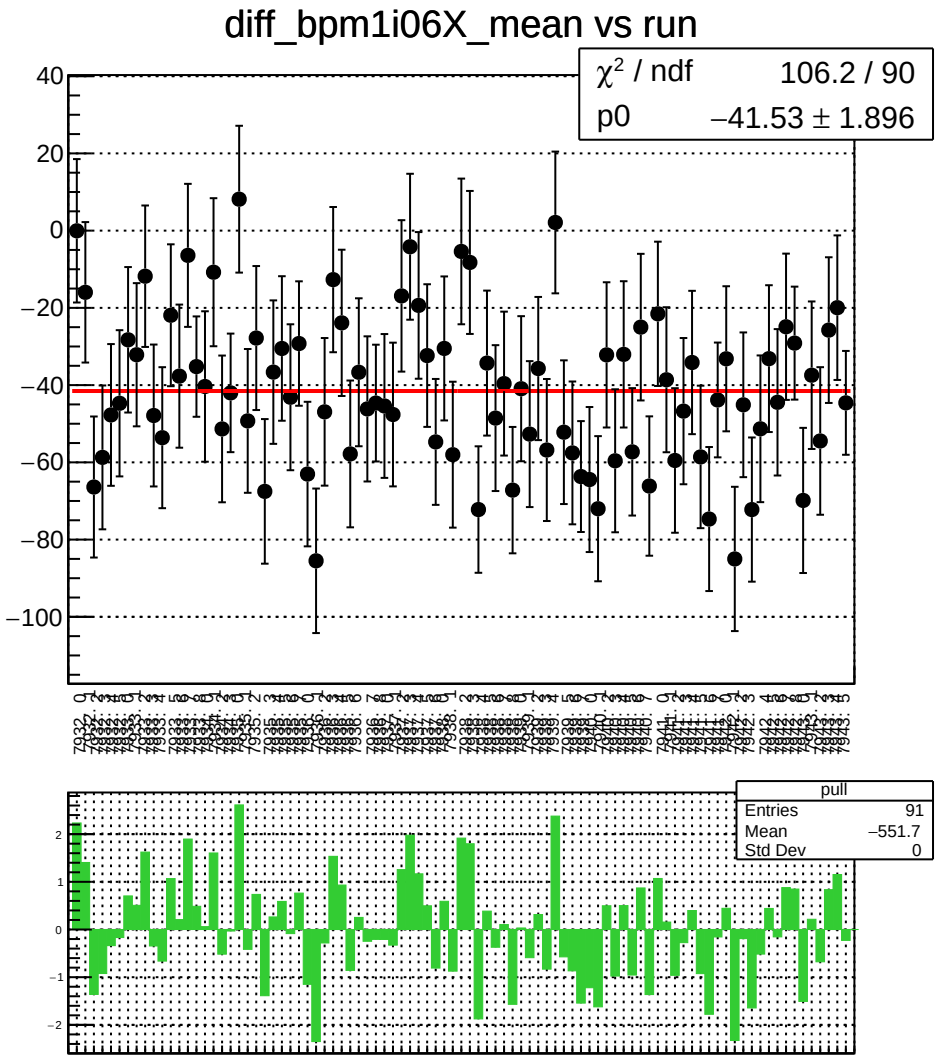

pull1D
Entries 91
Mean 0.005435
Std Dev 1.13

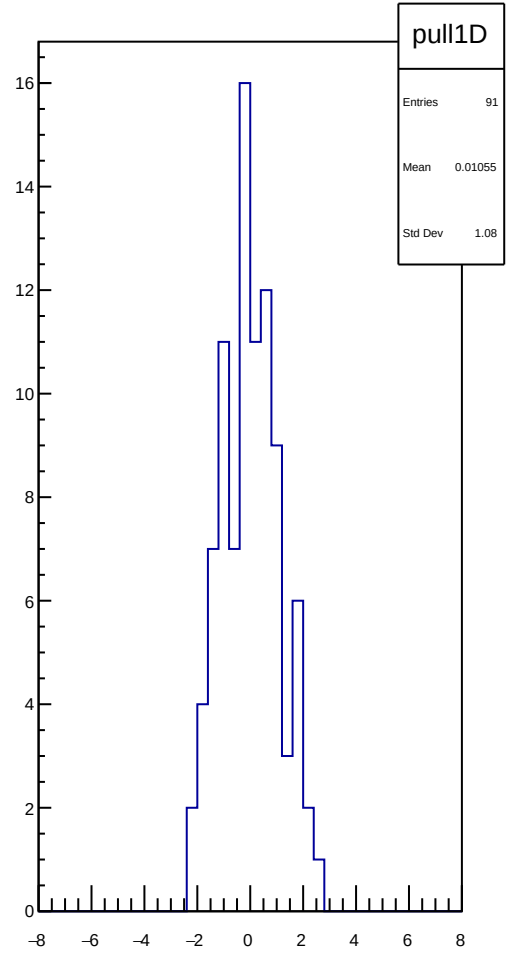

diff_bpm1i04X_rms vs run
χ² / ndf 148.5 / 90
p0 955.6 ± 0.7228
980
970
960
950
940
930

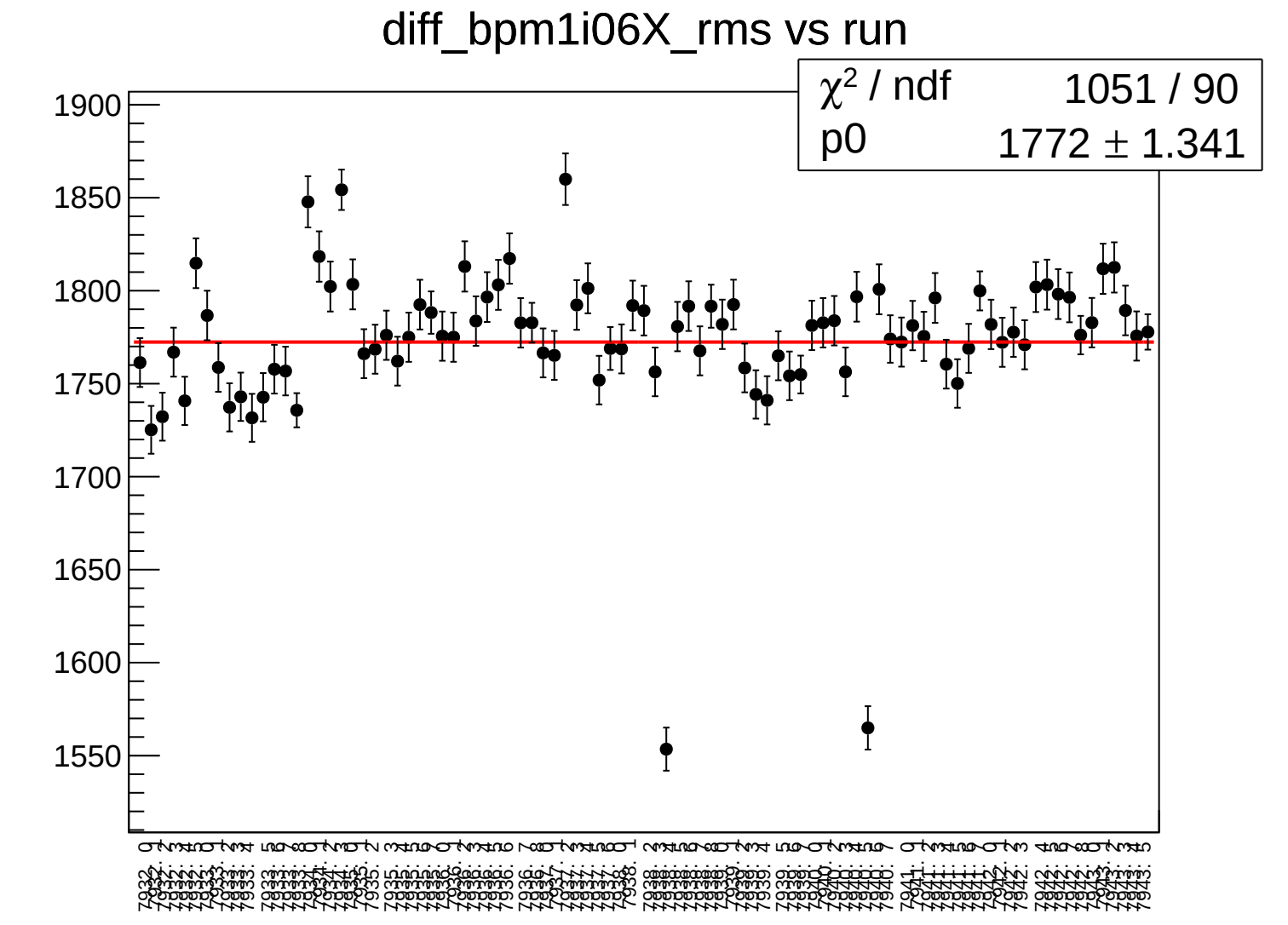

diff_bpm1i04Y_mean vs run
χ² / ndf 106.3 / 90
p0 −18 ± 0.6659
pull
Entries 91
Mean 4059
Std Dev 0

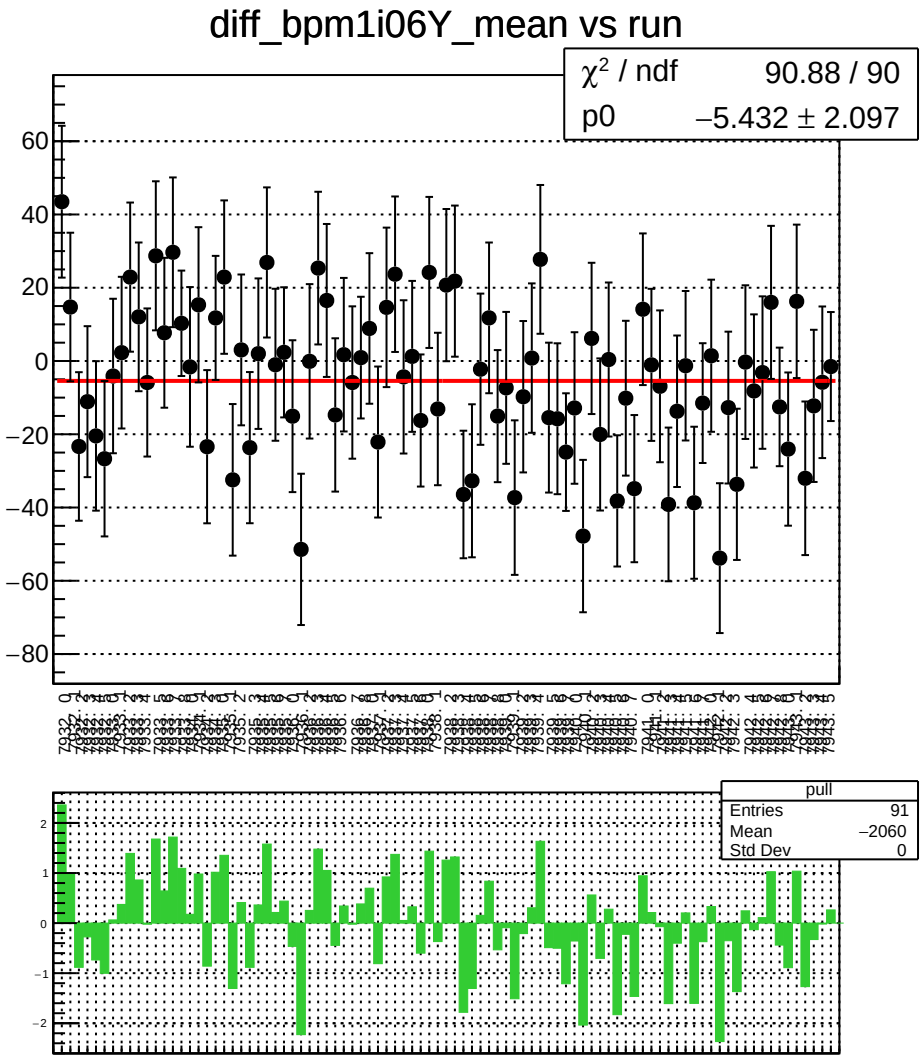

pull1D
Entries 91
Mean −0.002995
Std Dev 1.081

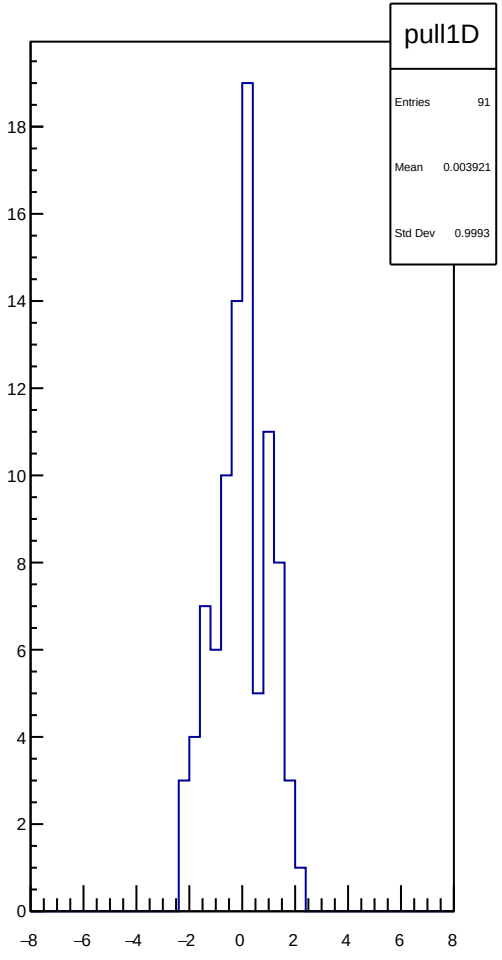

diff_bpm1i04Y_rms vs run
χ² / ndf 711.7 / 90
p0 622.5 ± 0.4709
660
640
620
600
580
560
540

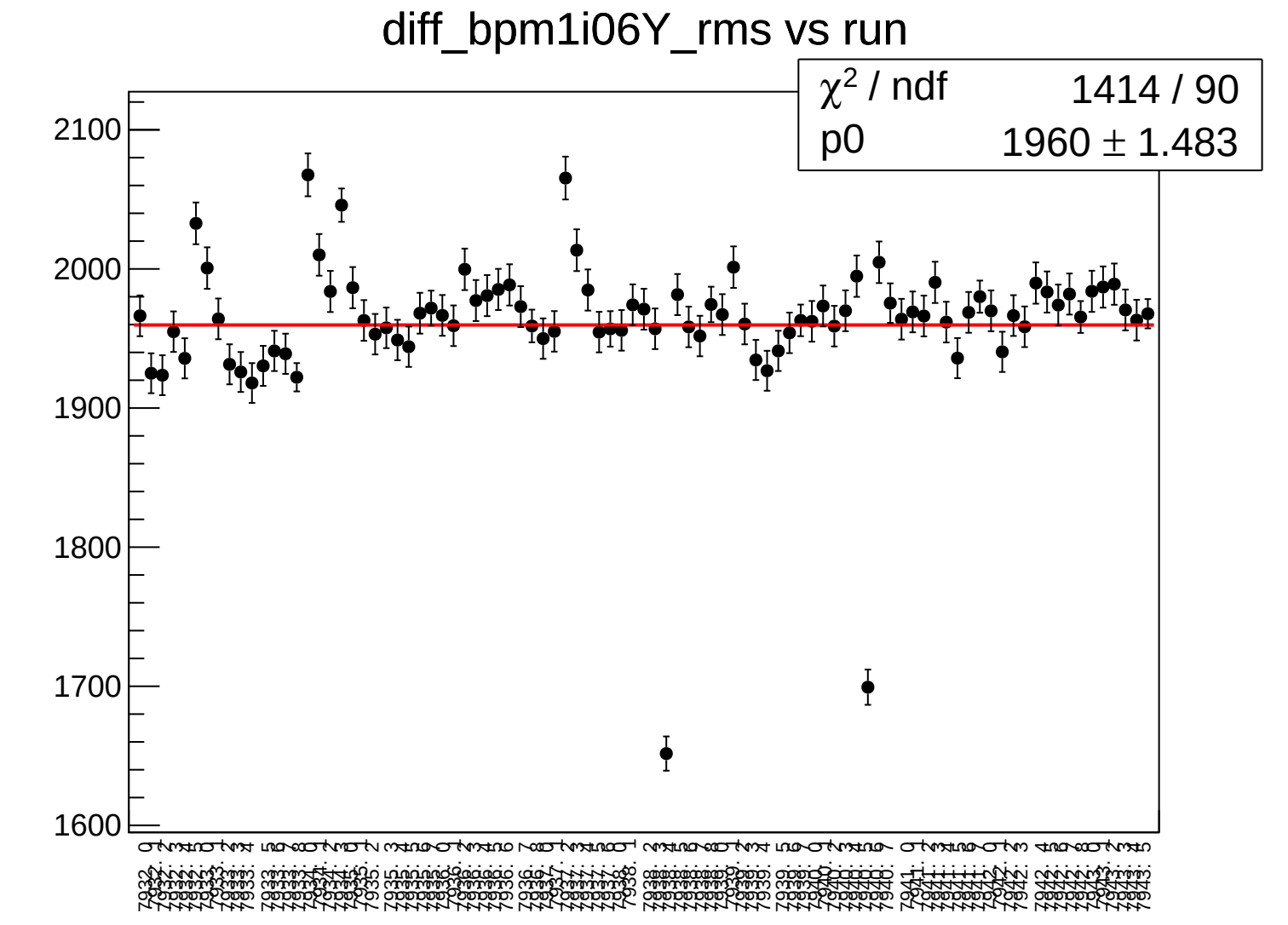

diff_bpm1i06X_mean vs run
χ² / ndf 106.2 / 90
p0 −41.53 ± 1.896
pull
Entries 91
Mean −551.7
Std Dev 0

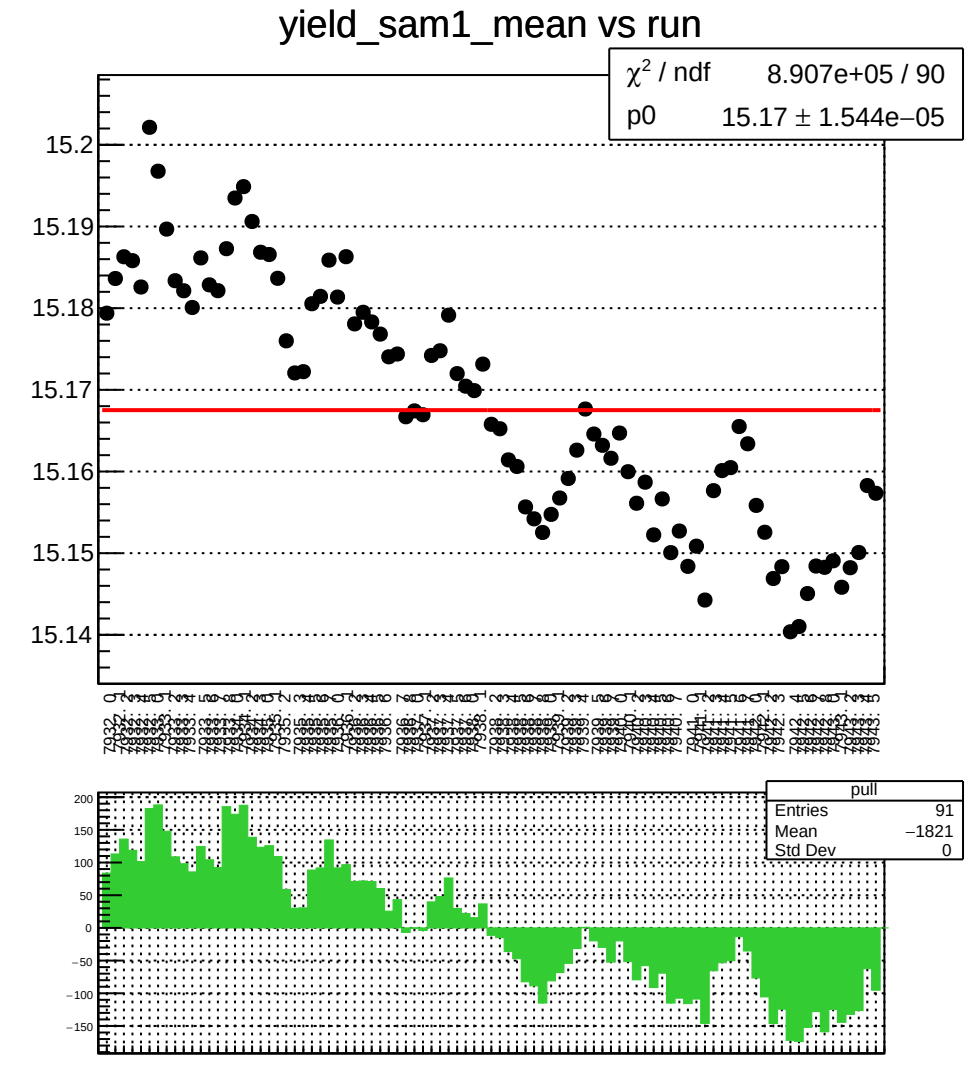

pull1D
Entries 91
Mean 0.01055
Std Dev 1.08

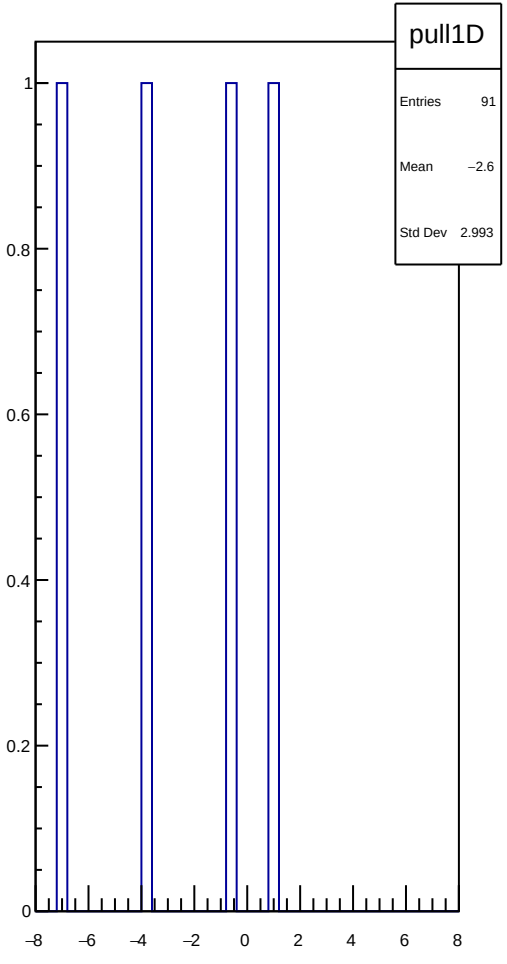

diff_bpm1i06X_rms vs run
χ^2 / ndf 1051 / 90
p0 1772 ± 1.341
1900
1850
1800
1750
1700
1650
1600
1550

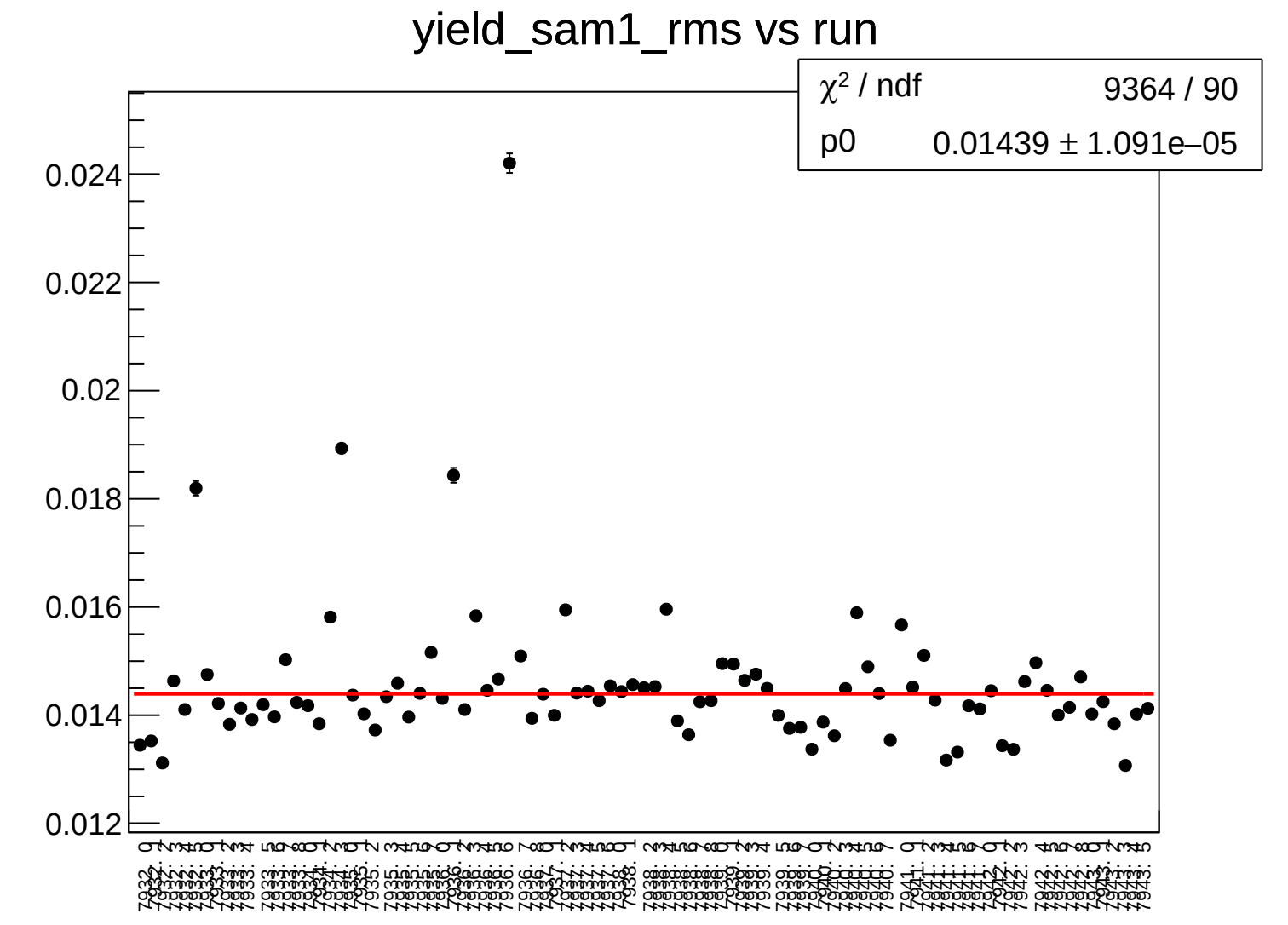

diff_bpm1i06Y_mean vs run
χ² / ndf 90.88 / 90
p0 −5.432 ± 2.097
pull
Entries 91
Mean −2060
Std Dev 0

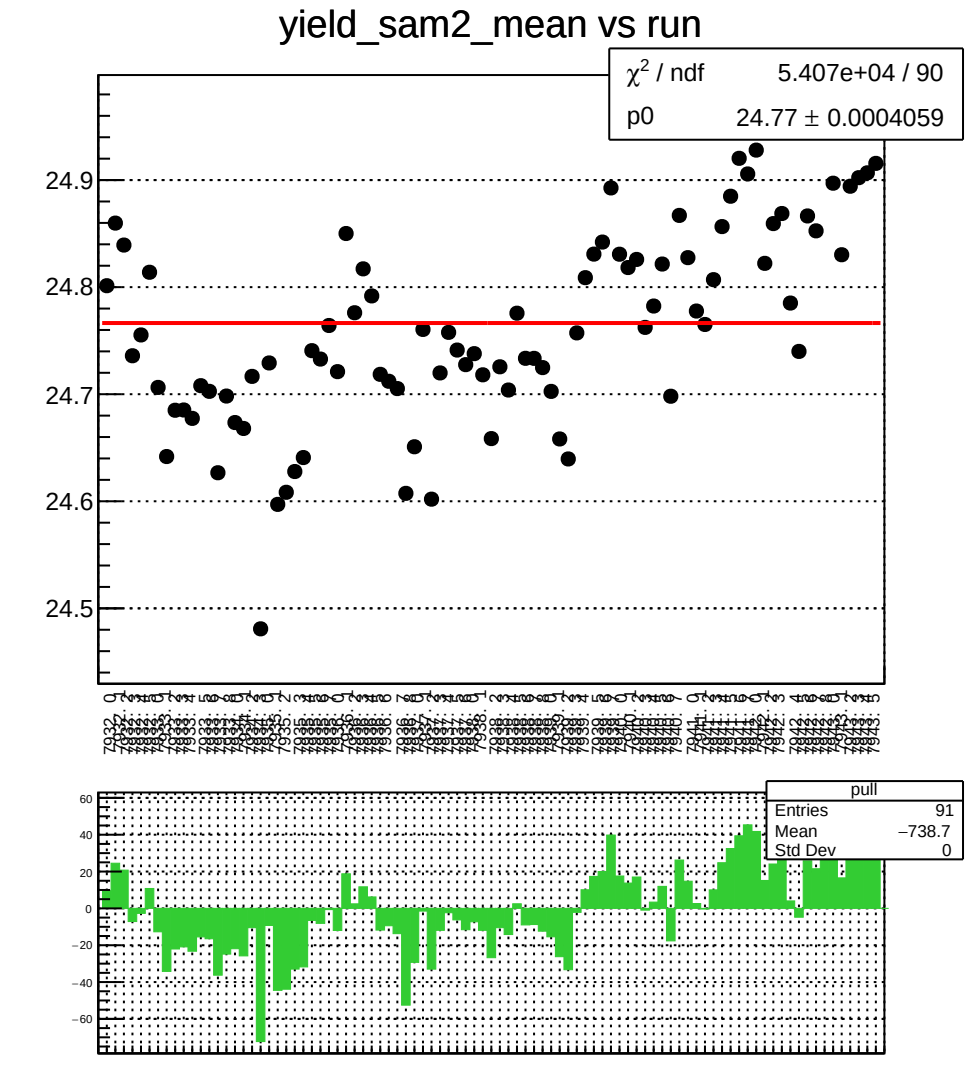

pull1D
Entries 91
Mean 0.003921
Std Dev 0.9993

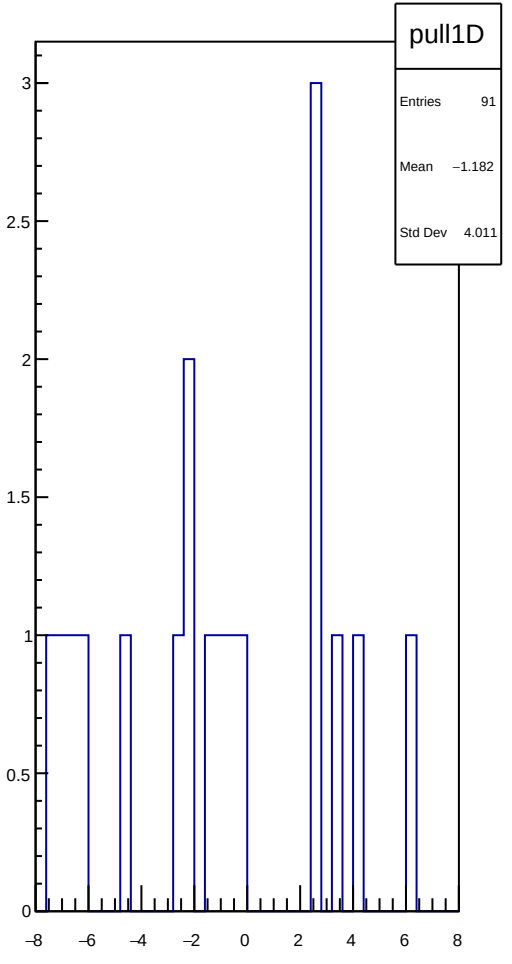

diff_bpm1i06Y_rms vs run
χ² / ndf 1414 / 90
p0 1960 ± 1.483
2100
2000
1900
1800
1700
1600

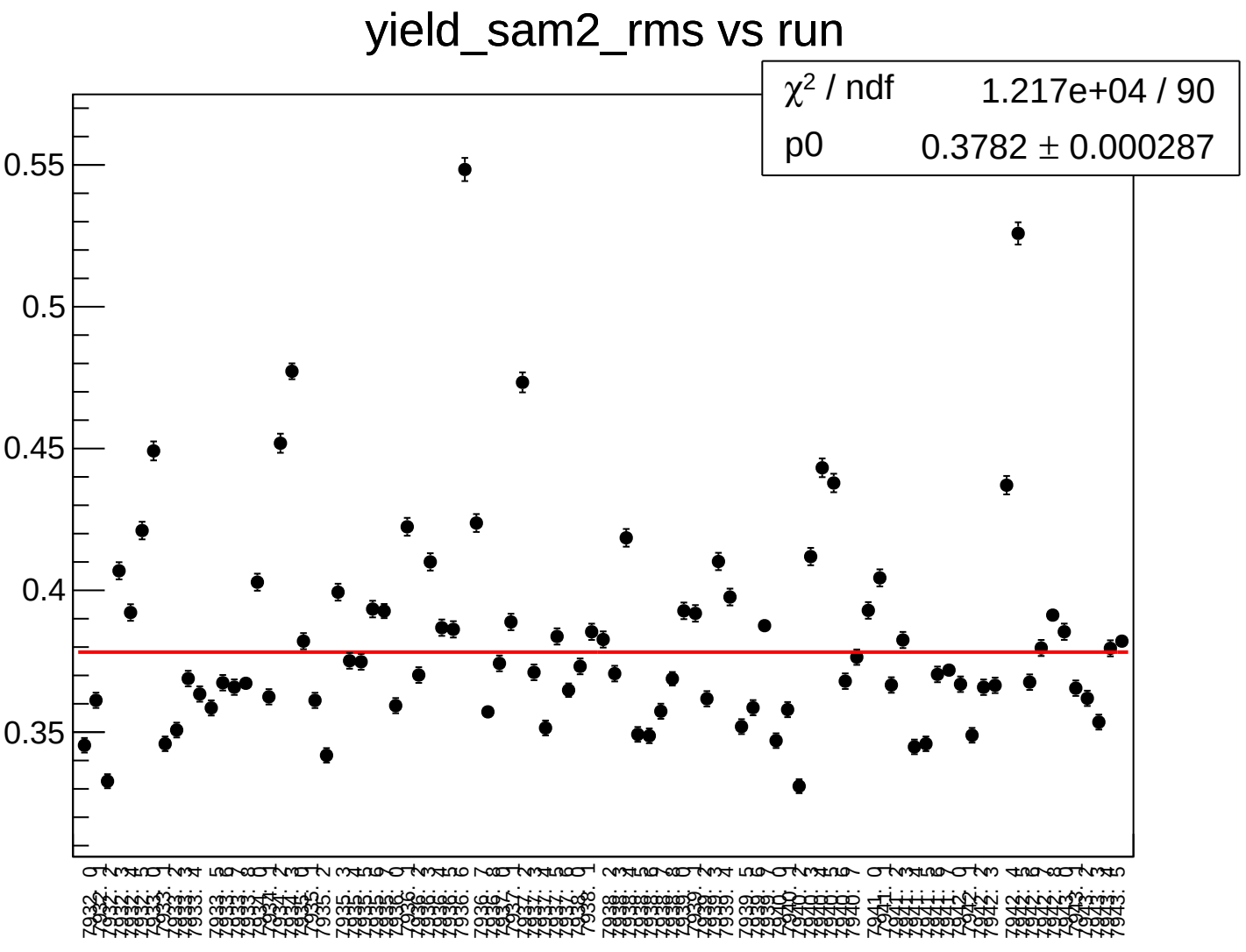

yield_sam1_mean vs run
χ² / ndf 8.907e+05 / 90
p0 15.17 ± 1.544e−05
15.2
15.19
15.18
15.17
15.16
15.15
15.14
pull
Entries 91
Mean −1821
Std Dev 0
200
150
100
50
0
−50
−100
−150

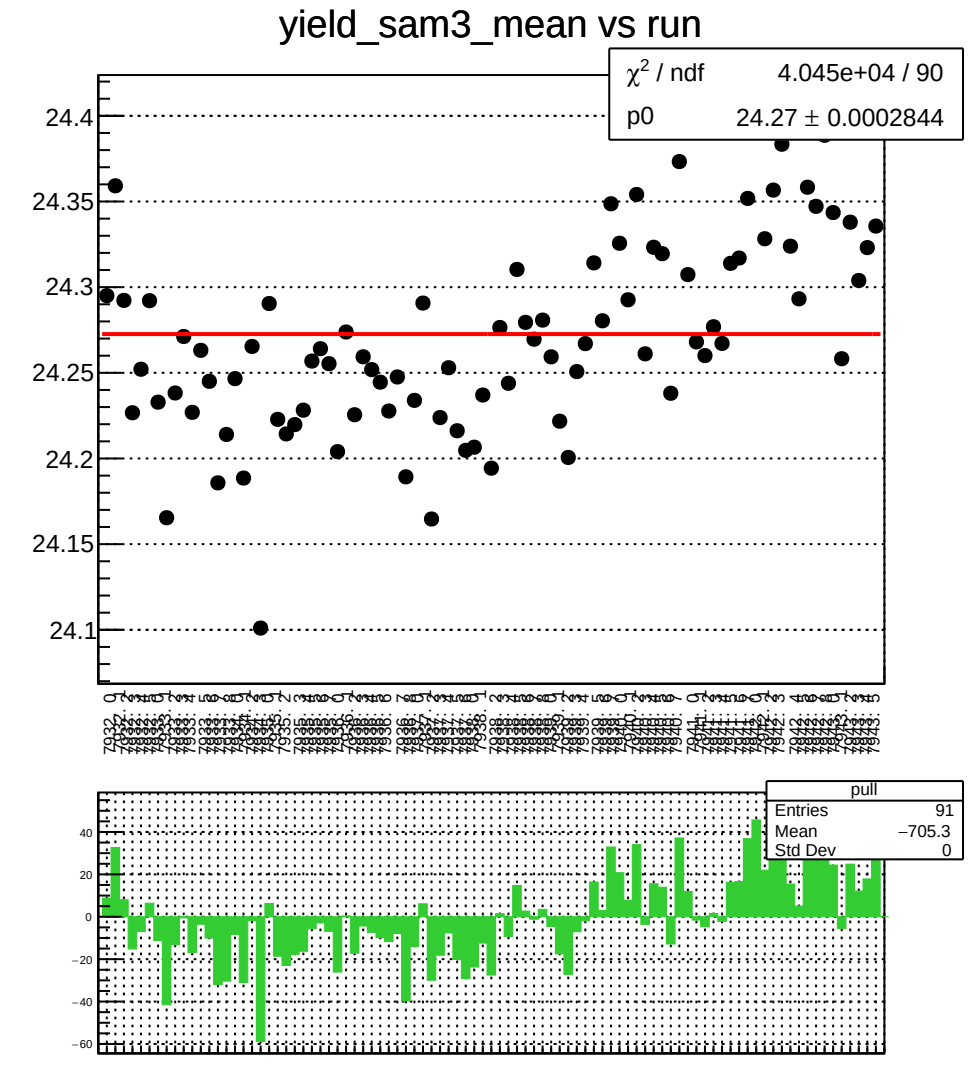

pull1D
Entries 91
Mean −2.6
Std Dev 2.993
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

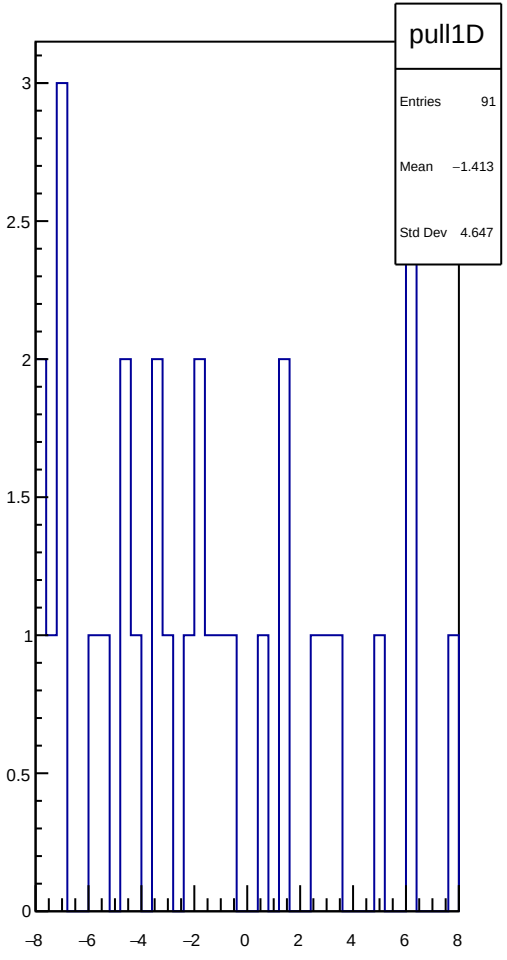

yield_sam1_rms vs run
χ² / ndf 9364 / 90
p0 0.01439 ± 1.091e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

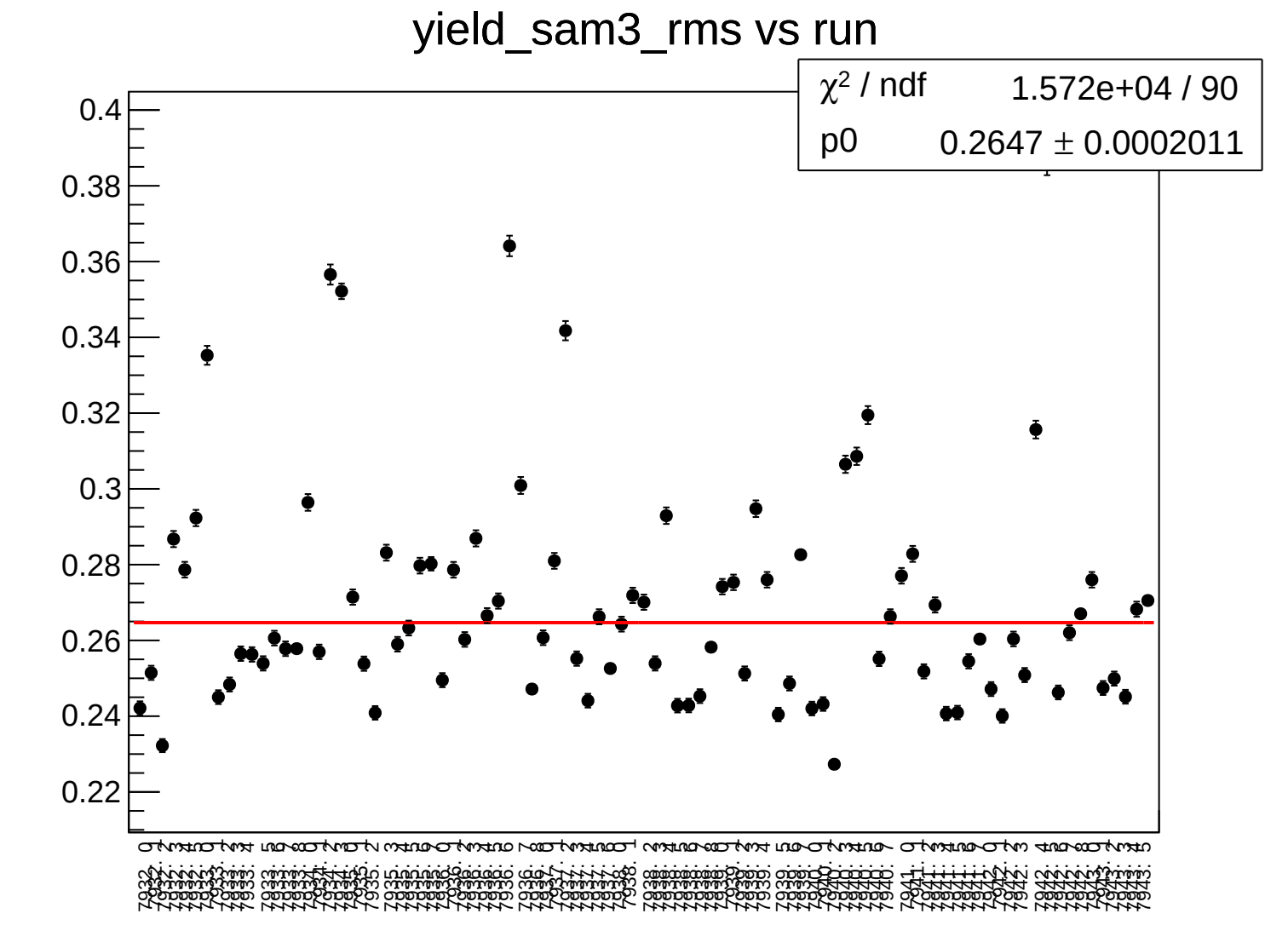

yield_sam2_mean vs run
χ² / ndf 5.407e+04 / 90
p0 24.77 ± 0.0004059
24.9
24.8
24.7
24.6
24.5
pull
Entries 91
Mean −738.7
Std Dev 0
60
40
20
0
−20
−40
−60

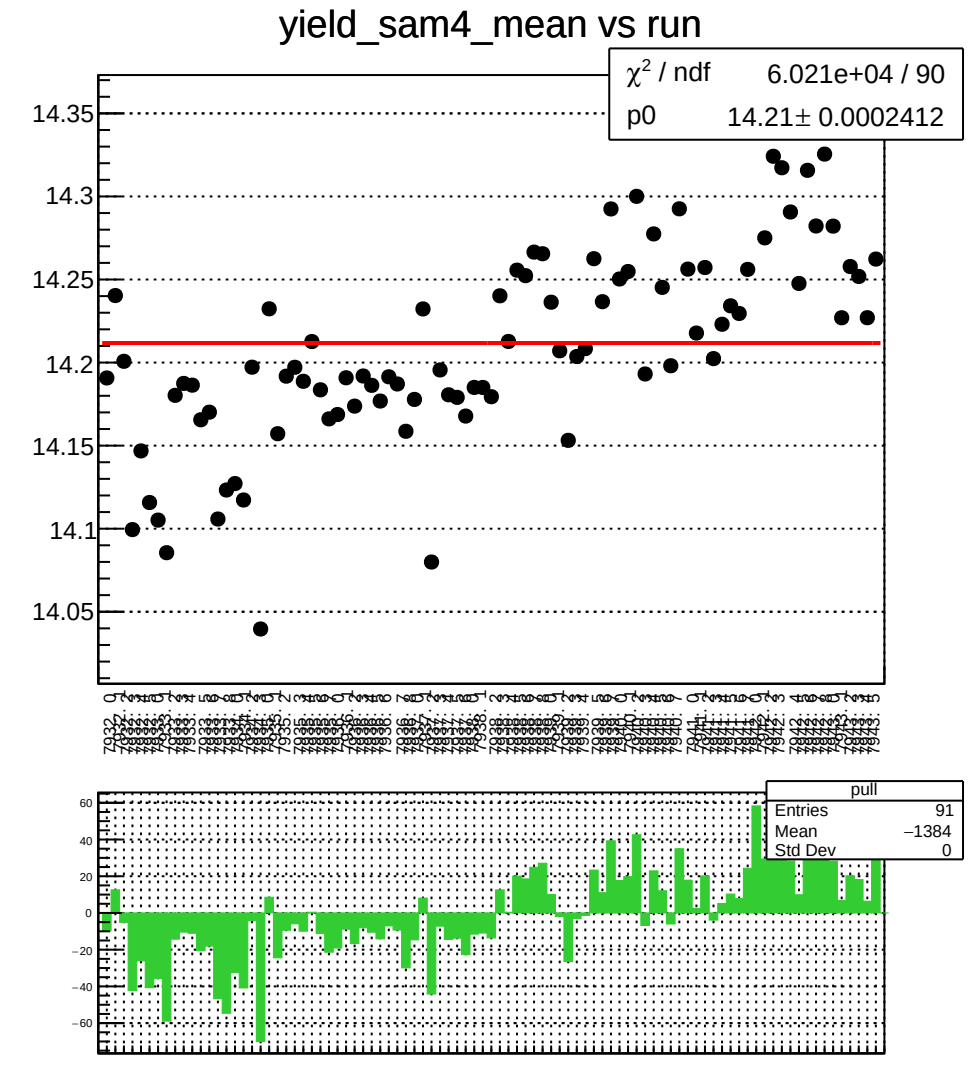

pull1D
Entries 91
Mean −1.182
Std Dev 4.011
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

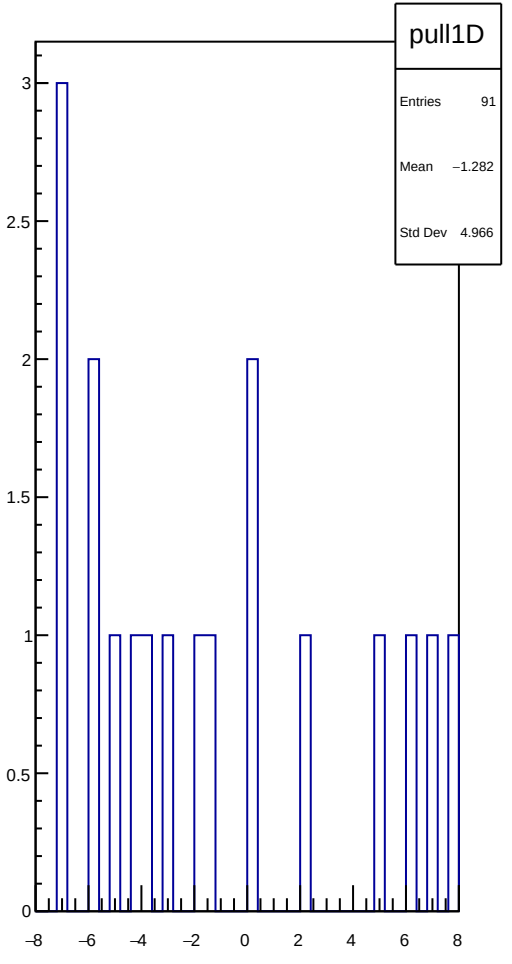

yield_sam2_rms vs run
χ² / ndf 1.217e+04 / 90
p0 0.3782 ± 0.000287
0.55
0.5
0.45
0.4
0.35

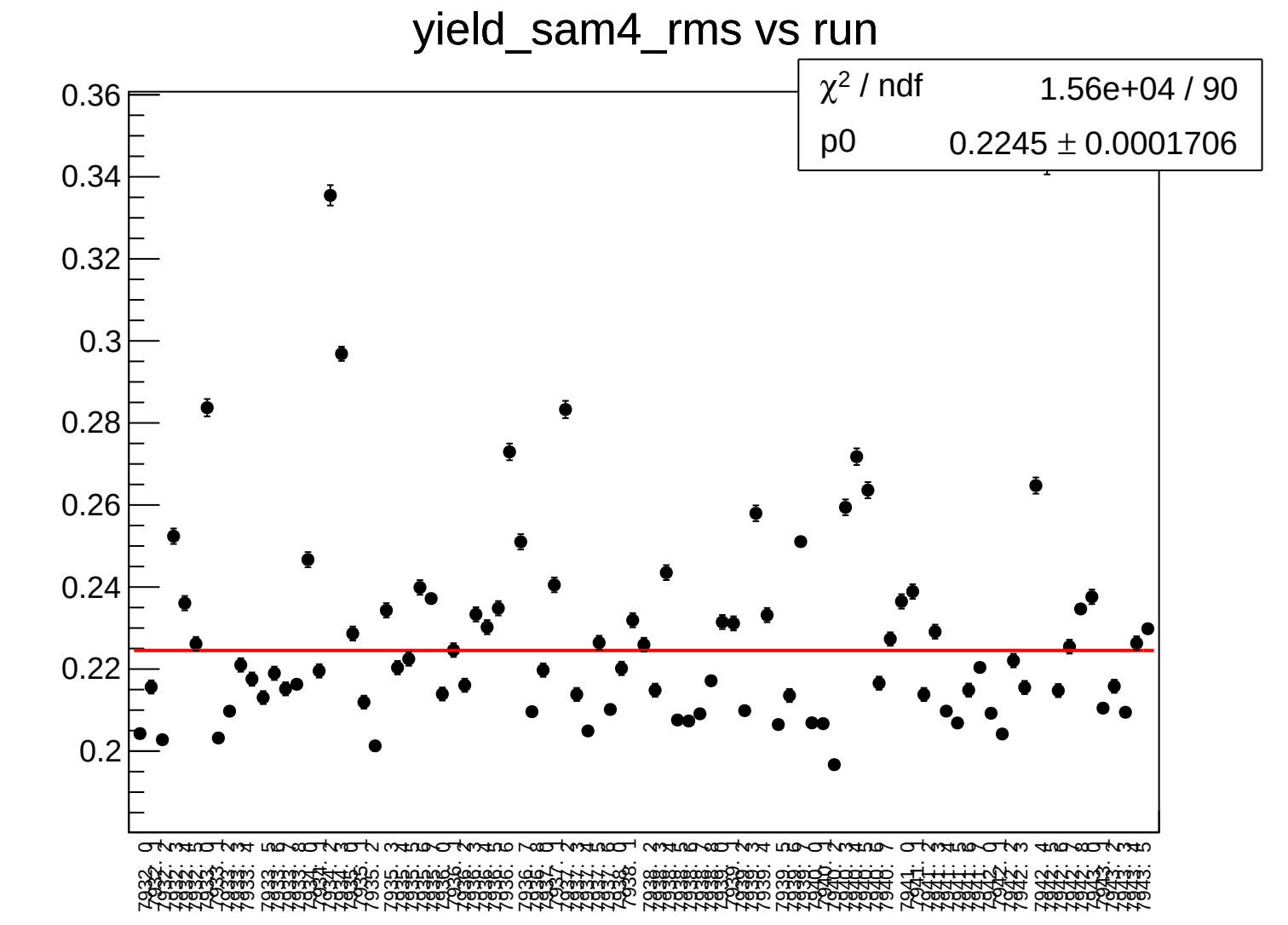

yield_sam3_mean vs run
χ² / ndf 4.045e+04 / 90
p0 24.27 ± 0.0002844
24.4
24.35
24.3
24.25
24.2
24.15
24.1
pull
Entries 91
Mean −705.3
Std Dev 0
40
20
0
−20
−40
−60

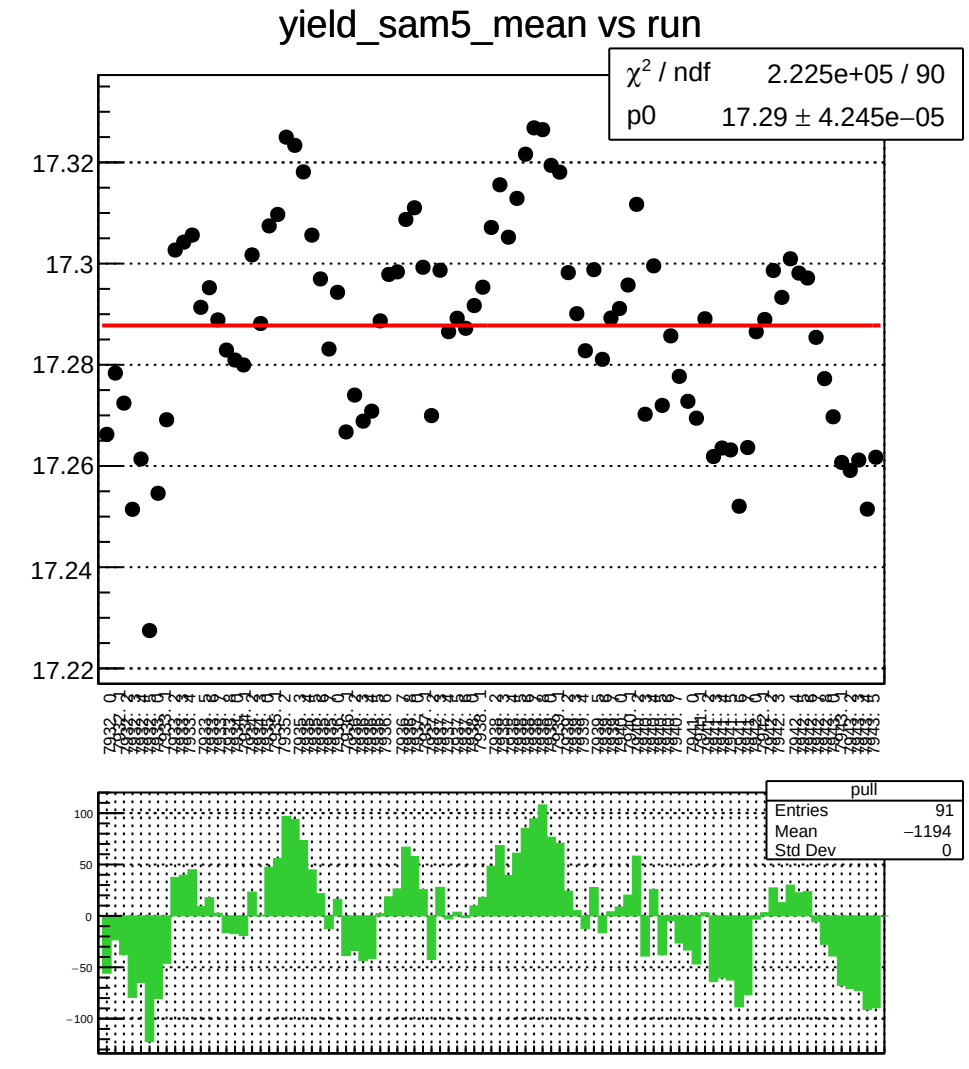

pull1D
Entries 91
Mean −1.413
Std Dev 4.647
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

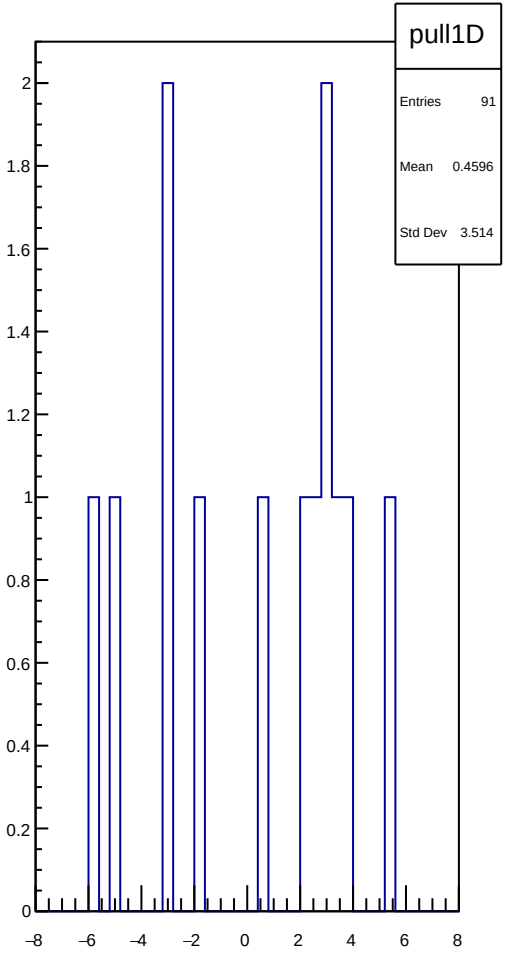

yield_sam3_rms vs run
χ² / ndf 1.572e+04 / 90
p0 0.2647 ± 0.0002011
0.4
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22

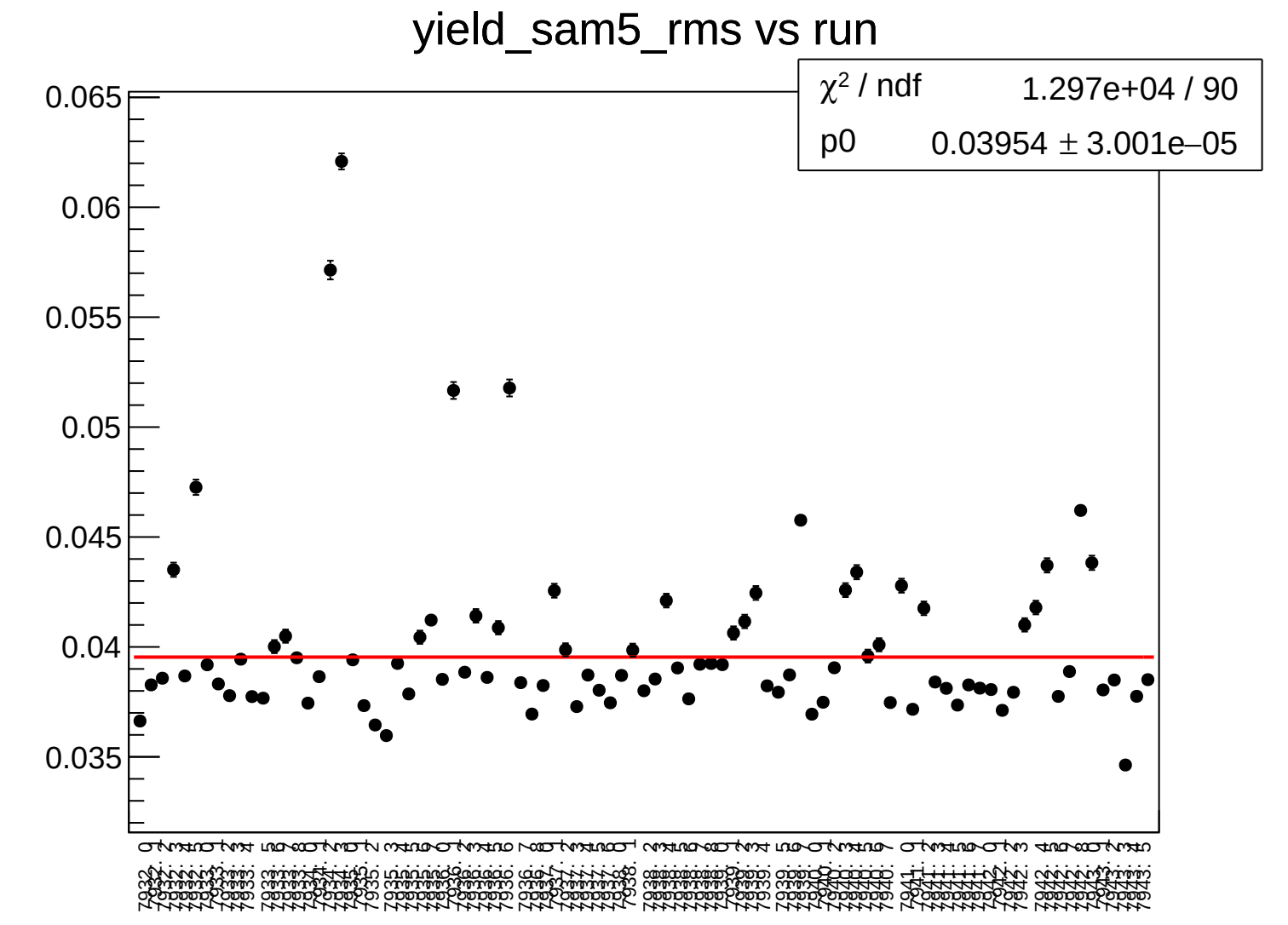

yield_sam4_mean vs run
χ² / ndf 6.021e+04 / 90
p0 14.21± 0.0002412
14.35
14.3
14.25
14.2
14.15
14.1
14.05
pull
Entries 91
Mean −1384
Std Dev 0
60
40
20
0
−20
−40
−60

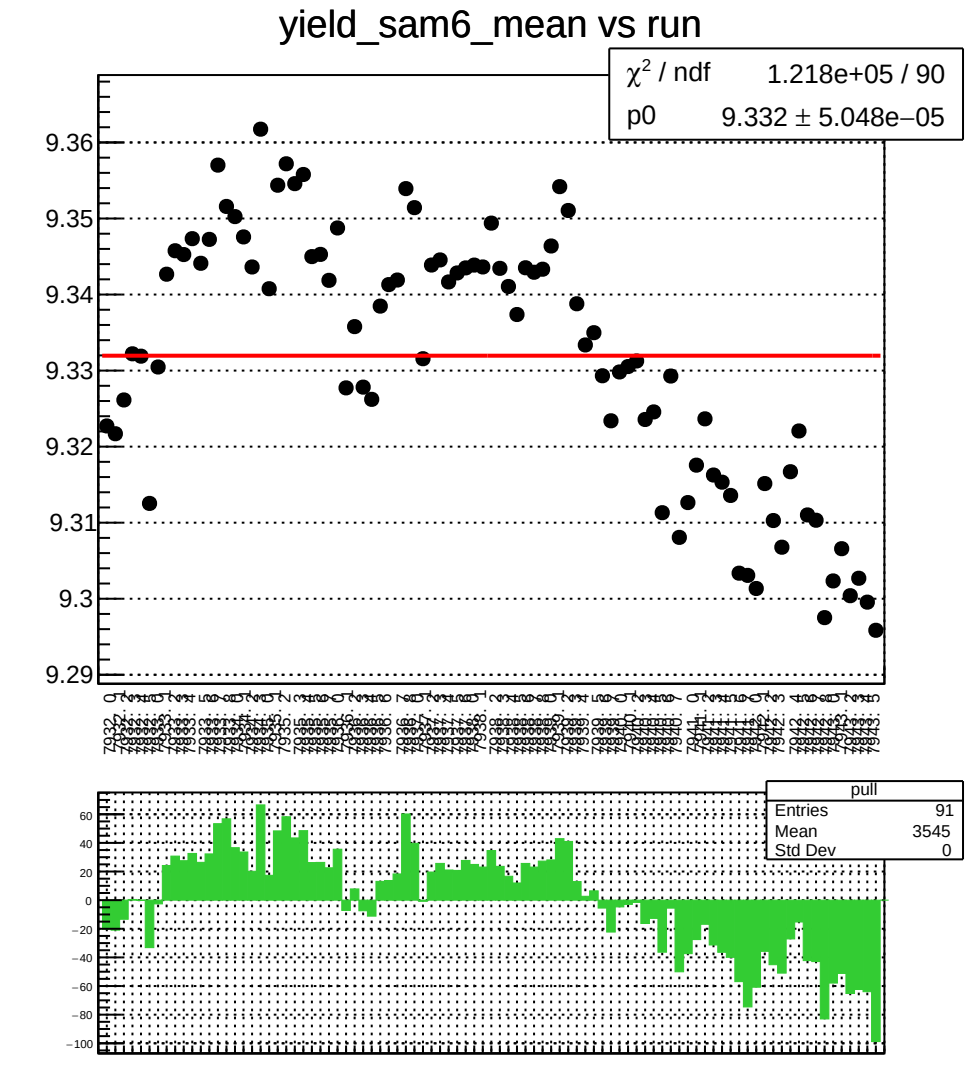

pull1D
Entries 91
Mean −1.282
Std Dev 4.966
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

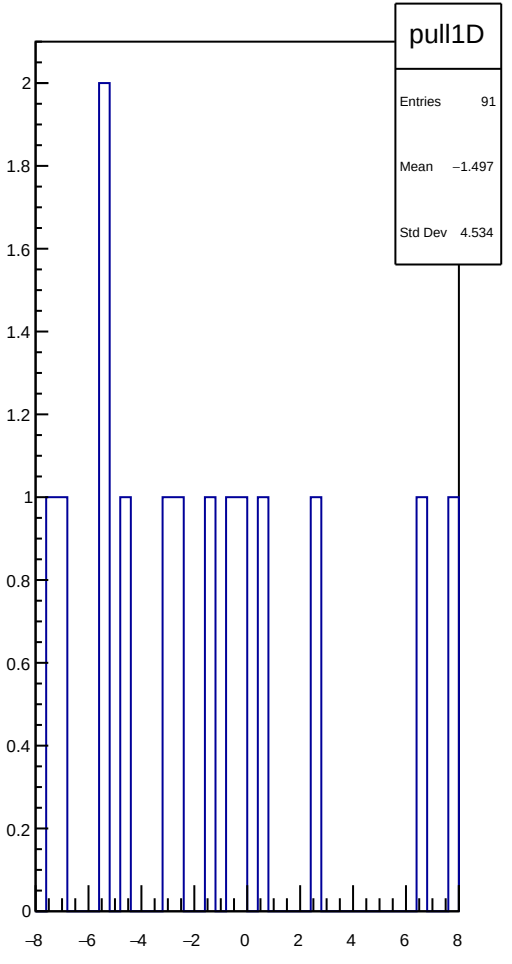

yield_sam4_rms vs run
χ² / ndf 1.56e+04 / 90
p0 0.2245 ± 0.0001706
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2

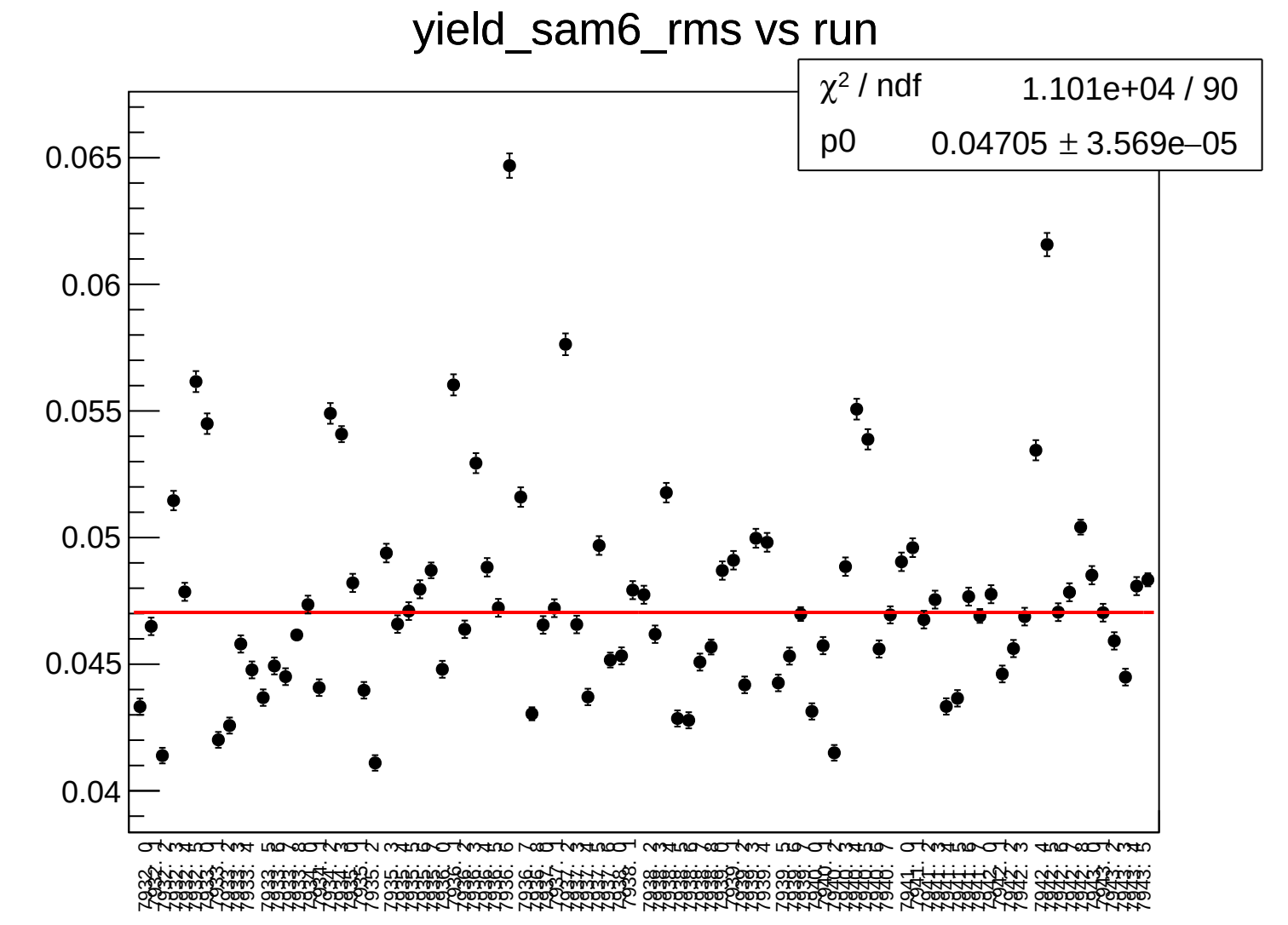

yield_sam5_mean vs run
χ² / ndf 2.225e+05 / 90
p0 17.29 ± 4.245e−05
17.32
17.3
17.28
17.26
17.24
17.22
pull
Entries 91
Mean −1194
Std Dev 0
100
50
0
−50
−100

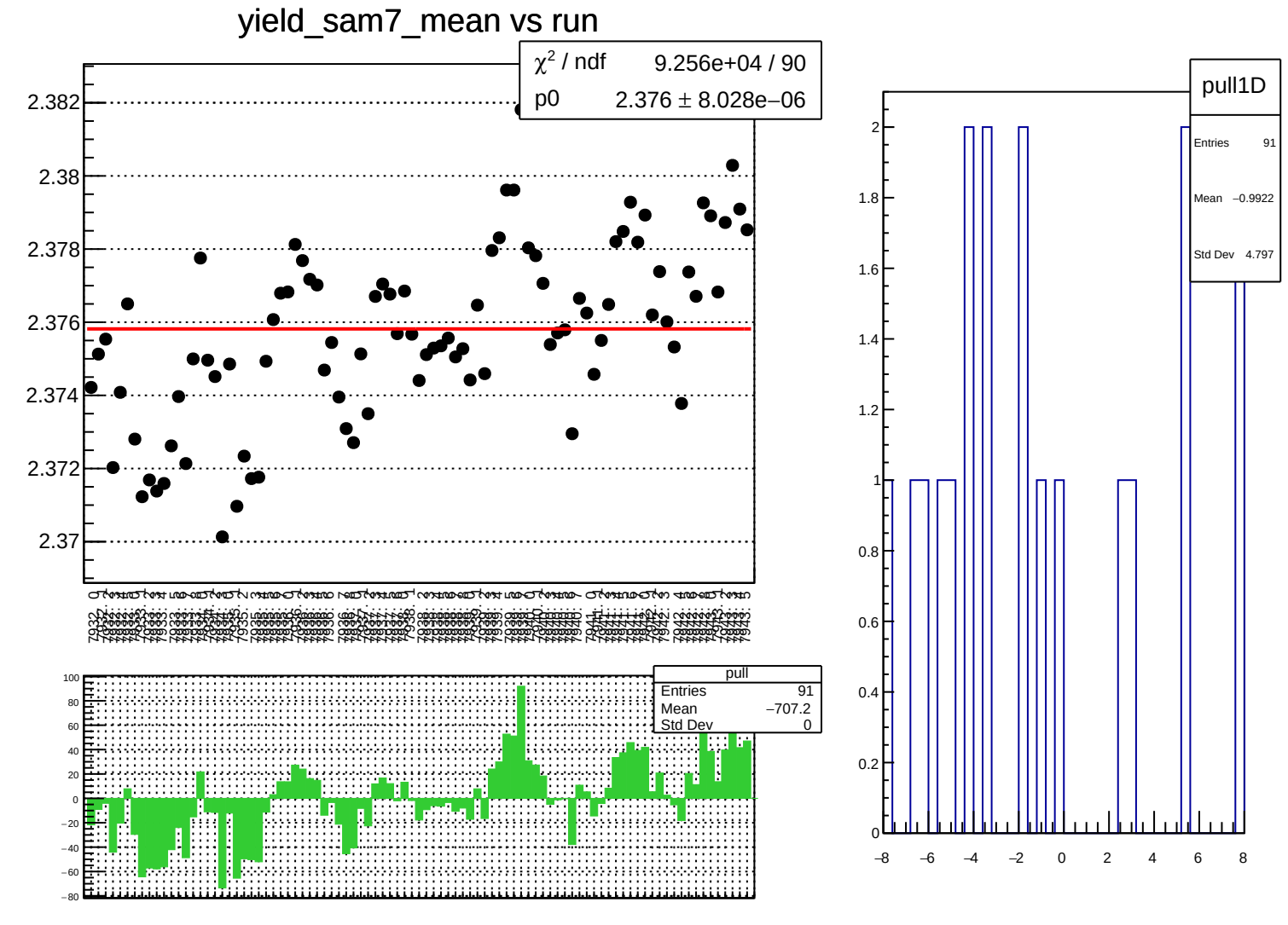

pull1D
Entries 91
Mean 0.4596
Std Dev 3.514
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

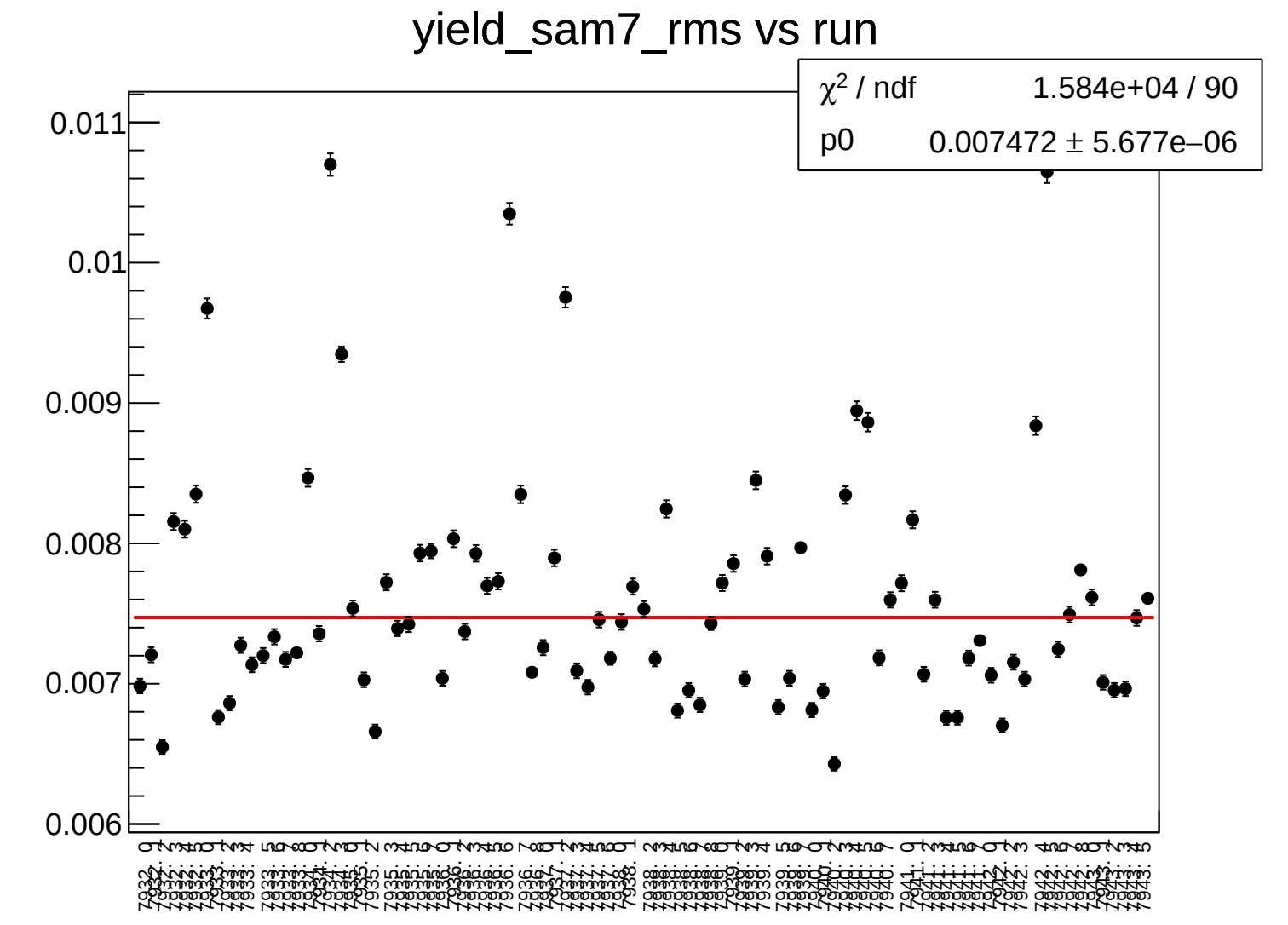

yield_sam5_rms vs run
χ² / ndf 1.297e+04 / 90
p0 0.03954 ± 3.001e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

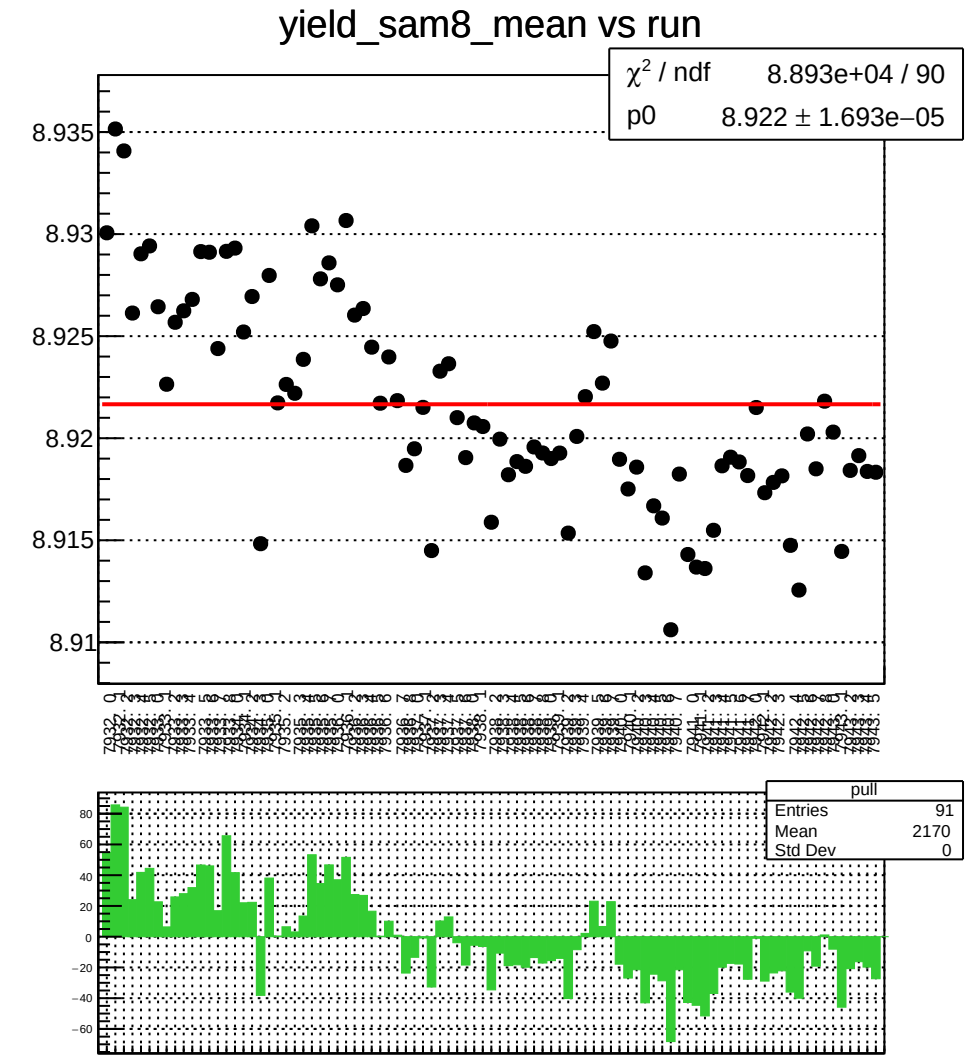

yield_sam6_mean vs run
χ² / ndf 1.218e+05 / 90
p0 9.332 ± 5.048e−05
9.36
9.35
9.34
9.33
9.32
9.31
9.3
9.29
pull
Entries 91
Mean 3545
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

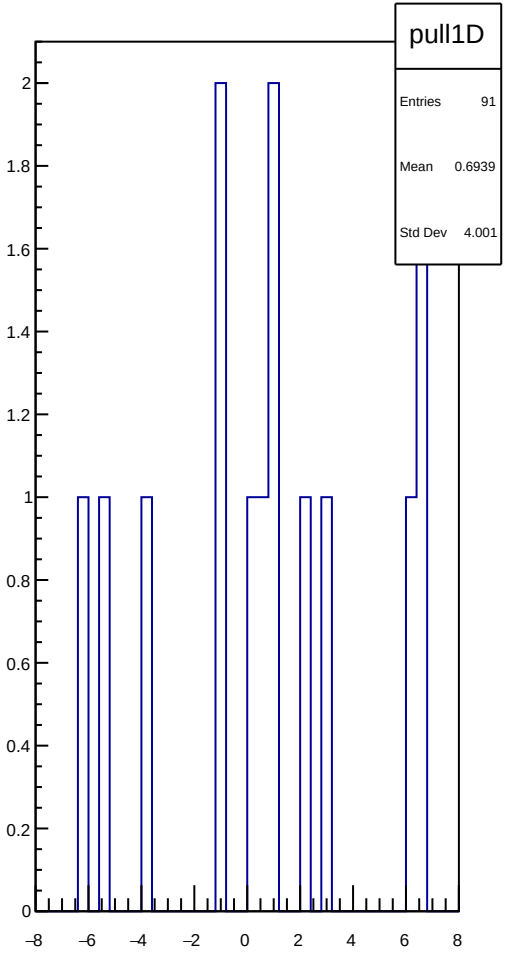

pull1D
Entries 91
Mean −1.497
Std Dev 4.534
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

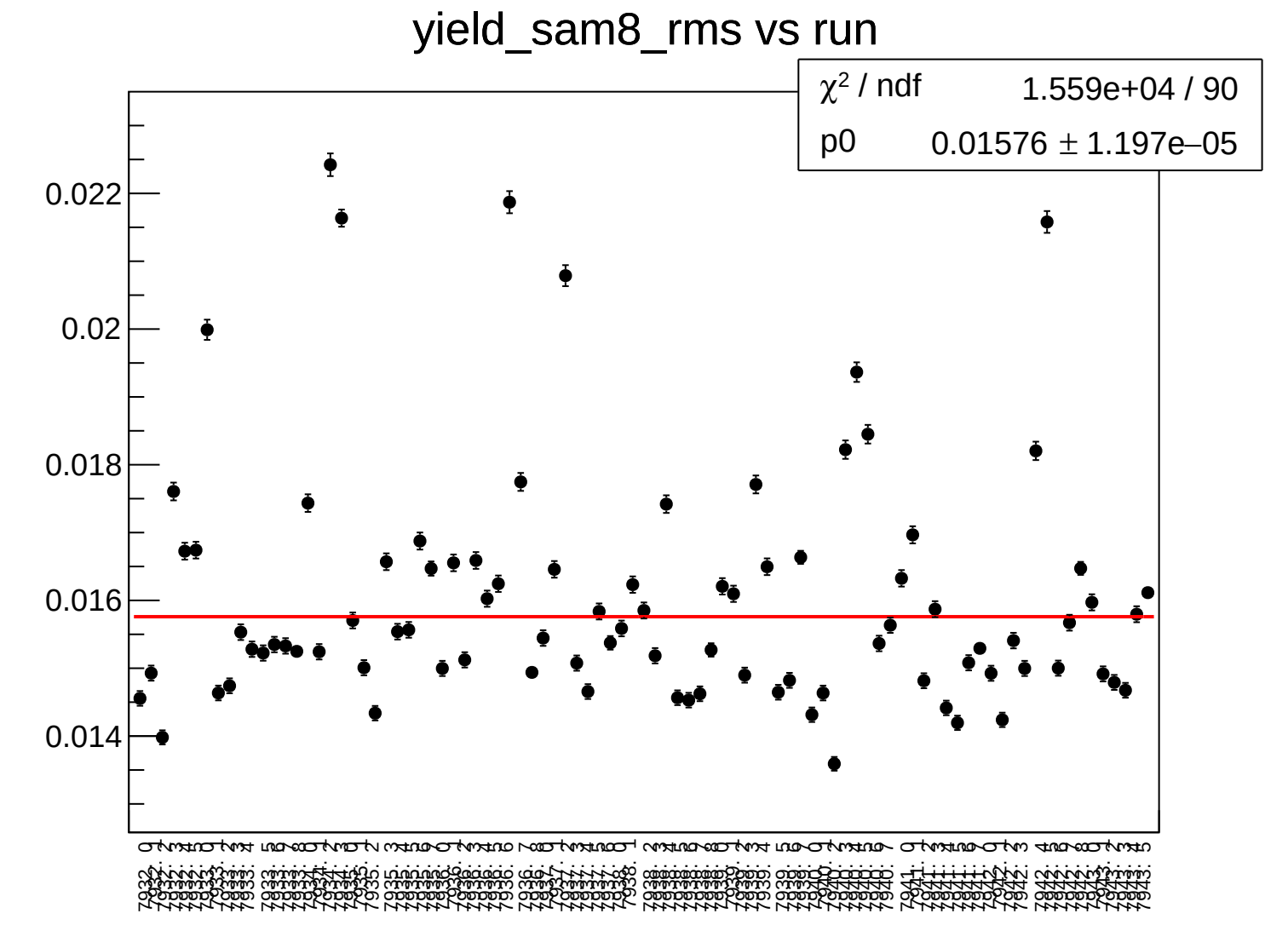

yield_sam6_rms vs run
χ² / ndf 1.101e+04 / 90
p0 0.04705 ± 3.569e–05
0.065
0.06
0.055
0.05
0.045
0.04

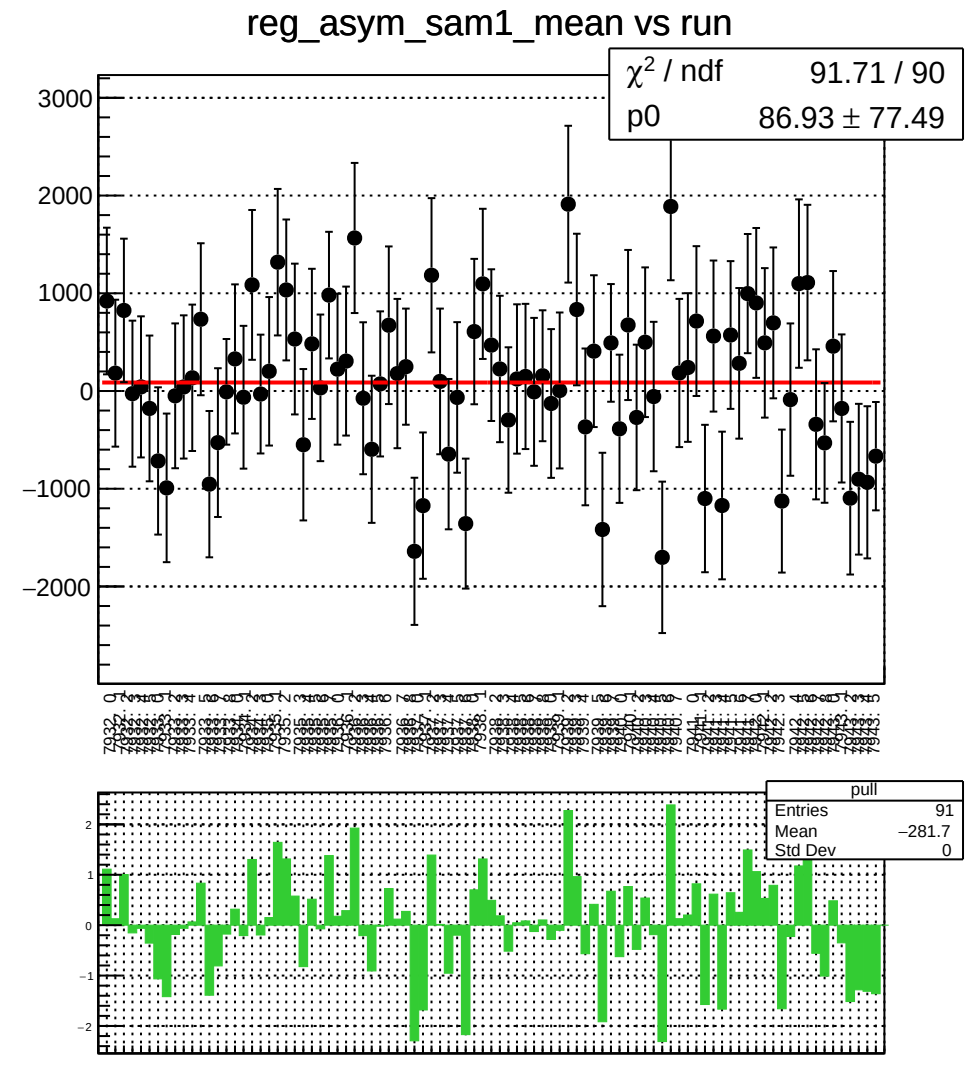

yield_sam7_mean vs run
χ² / ndf 9.256e+04 / 90
p0 2.376 ± 8.028e−06
2.382
2.38
2.378
2.376
2.374
2.372
2.37
pull
Entries 91
Mean −707.2
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 91
Mean −0.9922
Std Dev 4.797
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

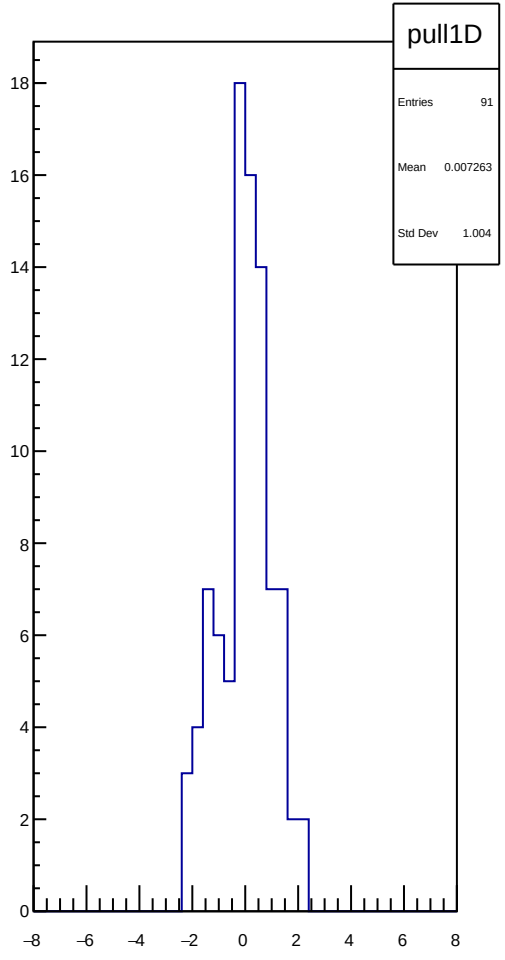

yield_sam7_rms vs run
χ² / ndf 1.584e+04 / 90
p0 0.007472 ± 5.677e−06
0.011
0.01
0.009
0.008
0.007
0.006

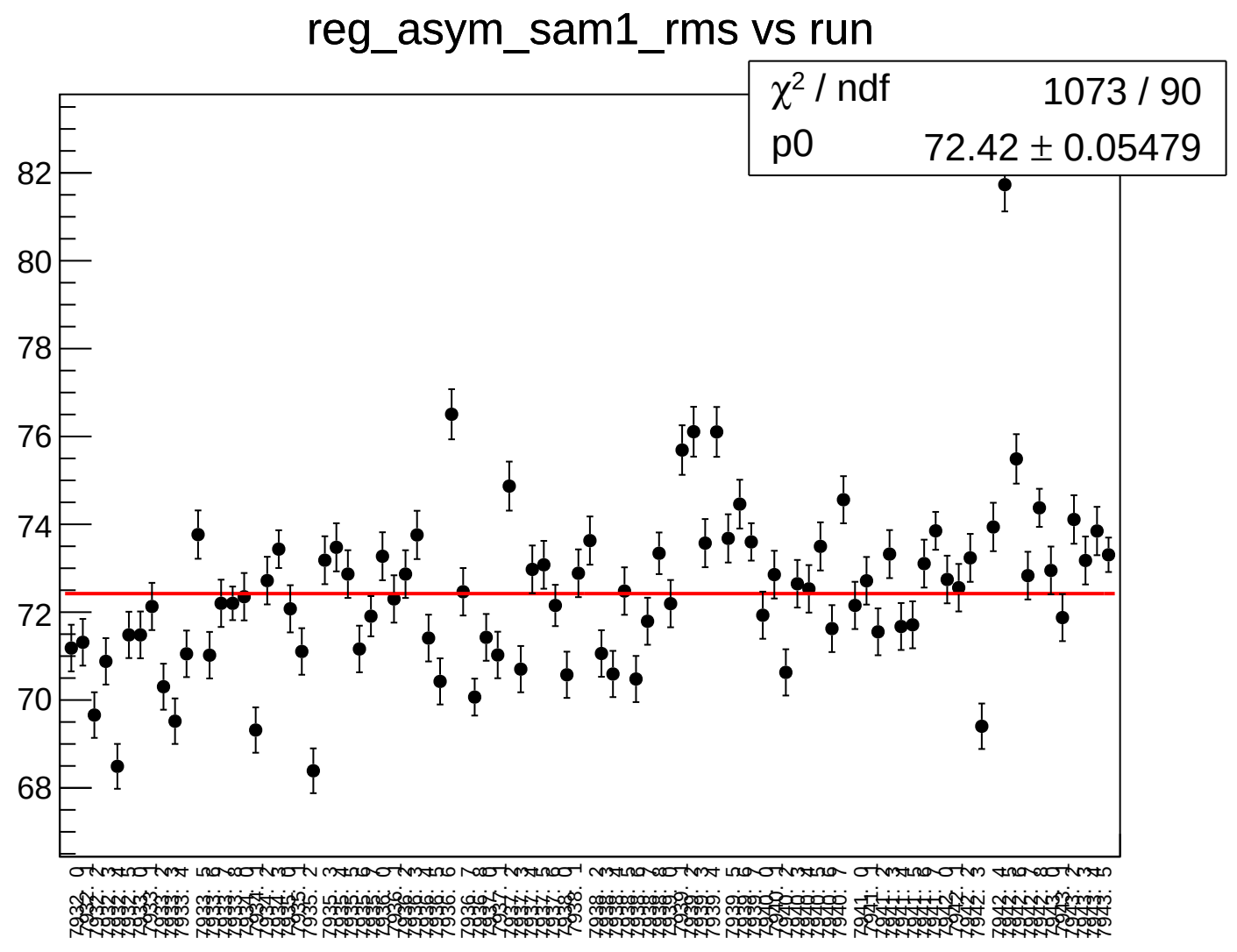

yield_sam8_mean vs run
χ² / ndf 8.893e+04 / 90
p0 8.922 ± 1.693e−05
8.935
8.93
8.925
8.92
8.915
8.91
pull
Entries 91
Mean 2170
Std Dev 0
80
60
40
20
0
−20
−40
−60

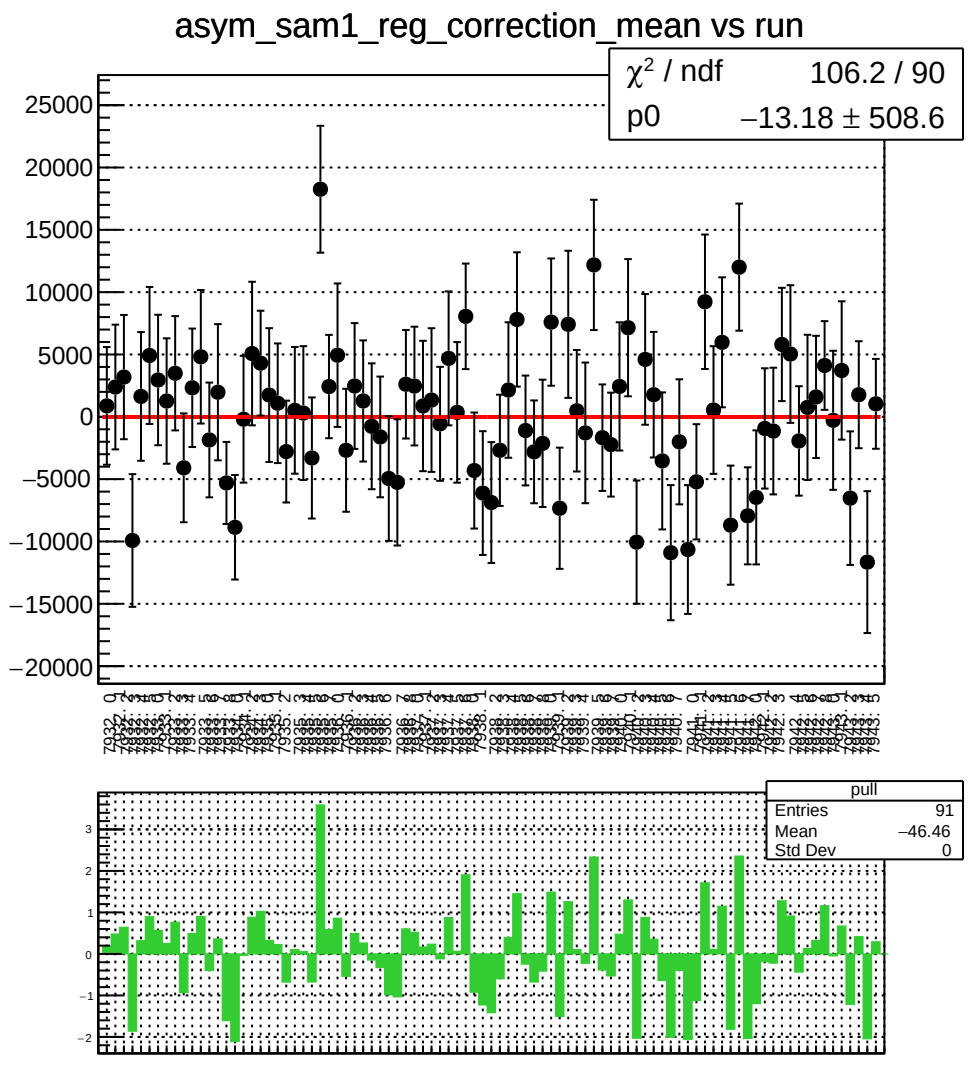

pull1D
Entries 91
Mean 0.6939
Std Dev 4.001
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

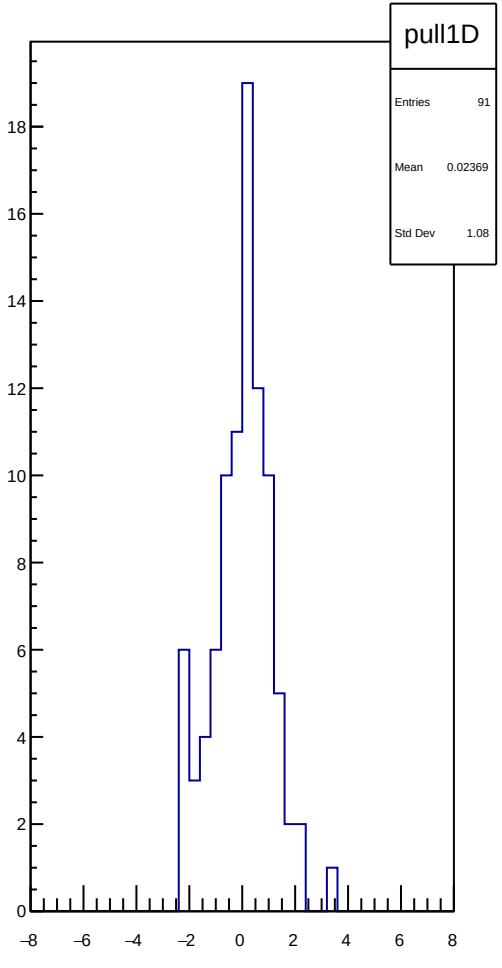

yield_sam8_rms vs run
χ² / ndf 1.559e+04 / 90
p0 0.01576 ± 1.197e–05
0.022
0.02
0.018
0.016
0.014

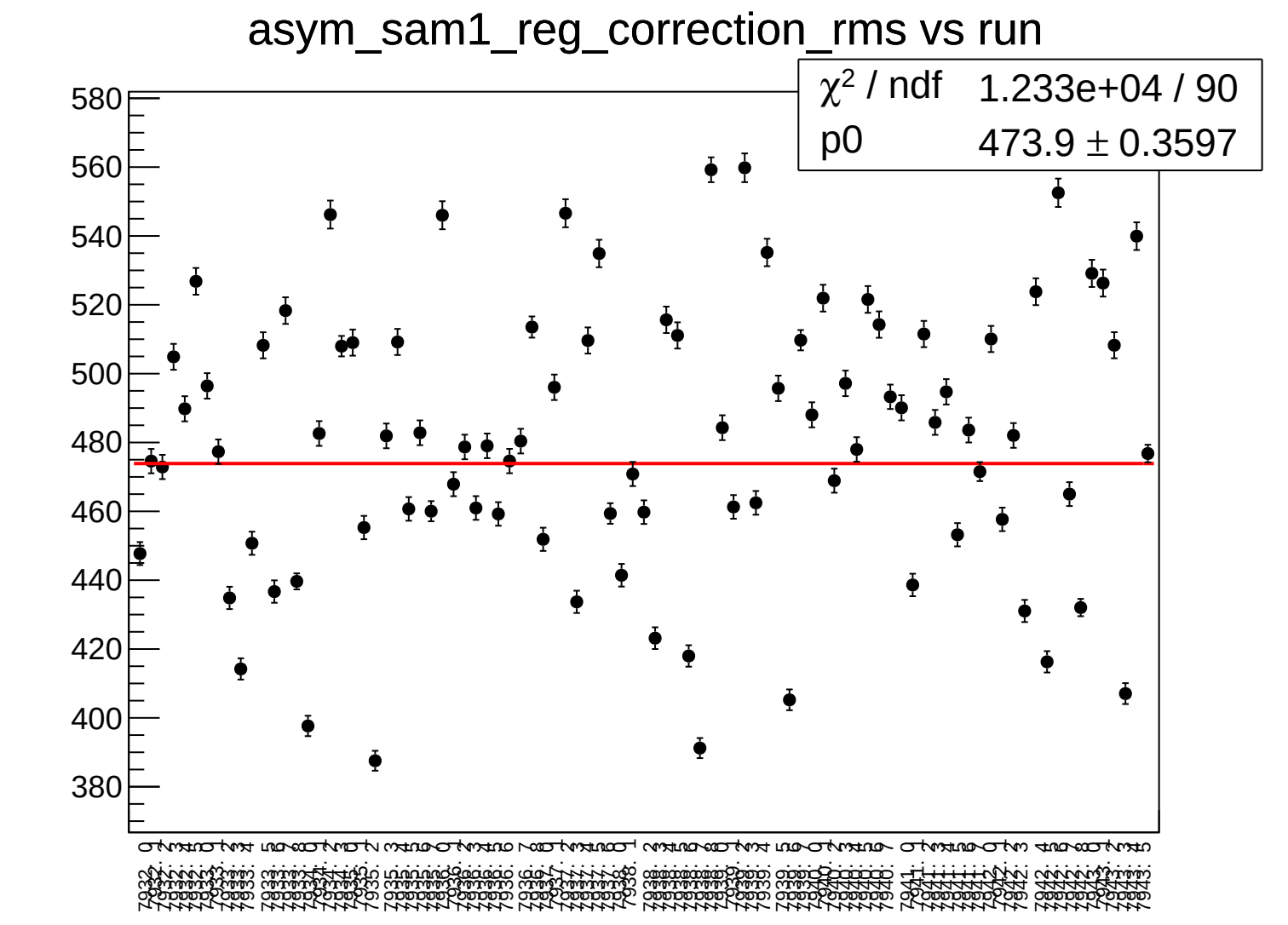

reg_asym_sam1_mean vs run
χ² / ndf 91.71 / 90
p0 86.93 ± 77.49
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −281.7
Std Dev 0
2
1
0
−1
−2

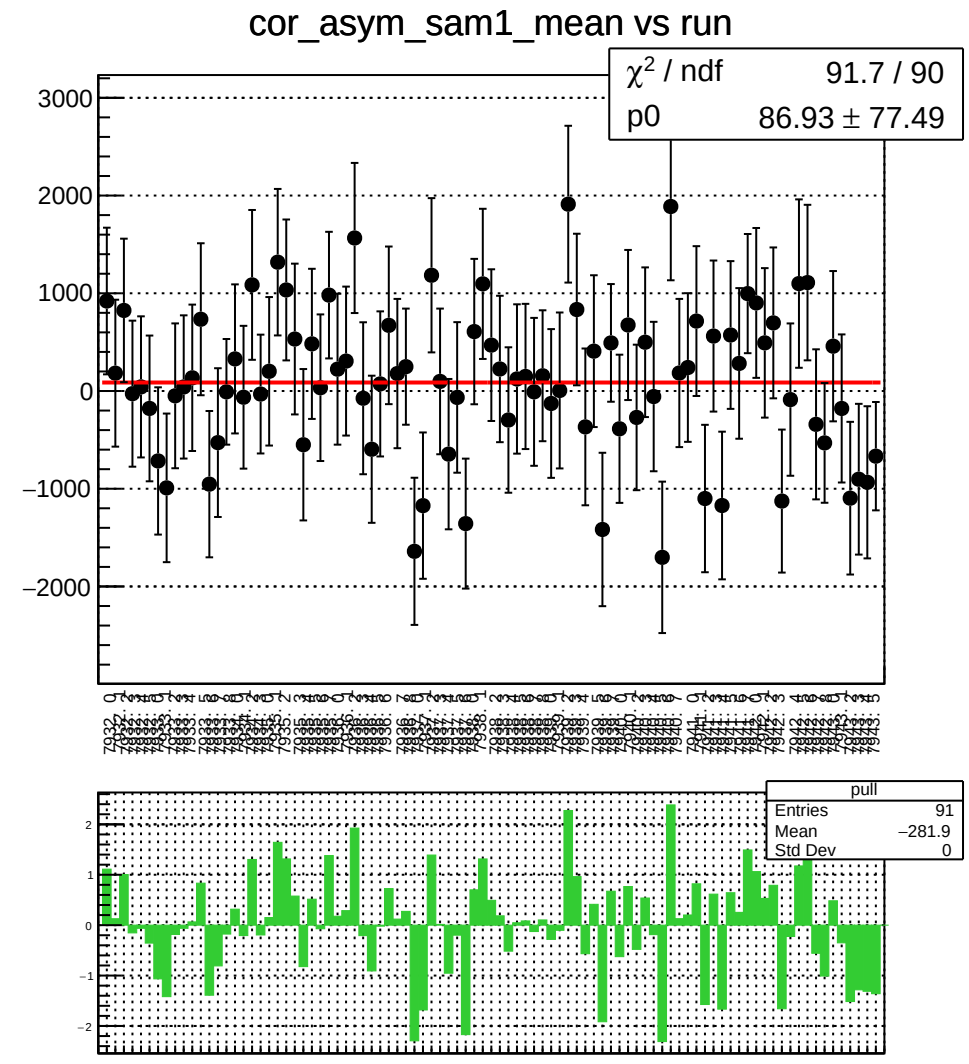

pull1D
Entries 91
Mean 0.007263
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

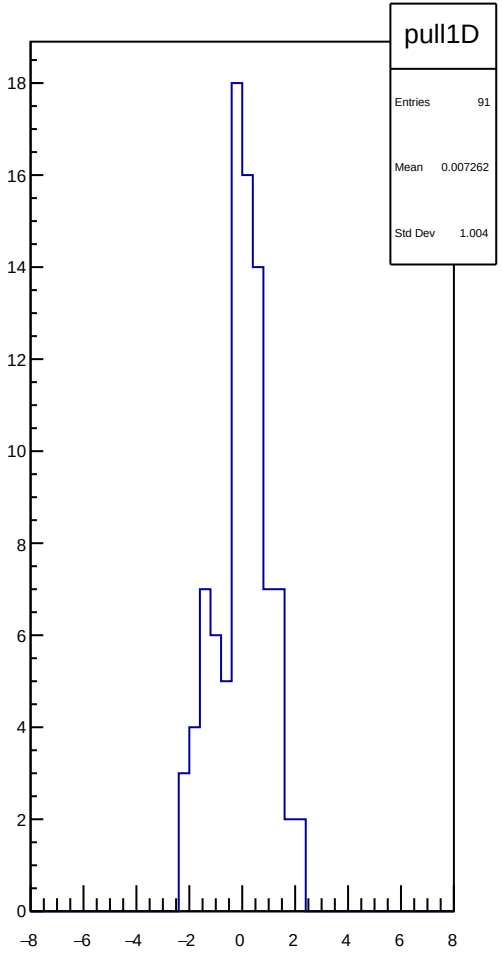

reg_asym_sam1_rms vs run
χ^2 / ndf 1073 / 90
p0 72.42 ± 0.05479
82
80
78
76
74
72
70
68

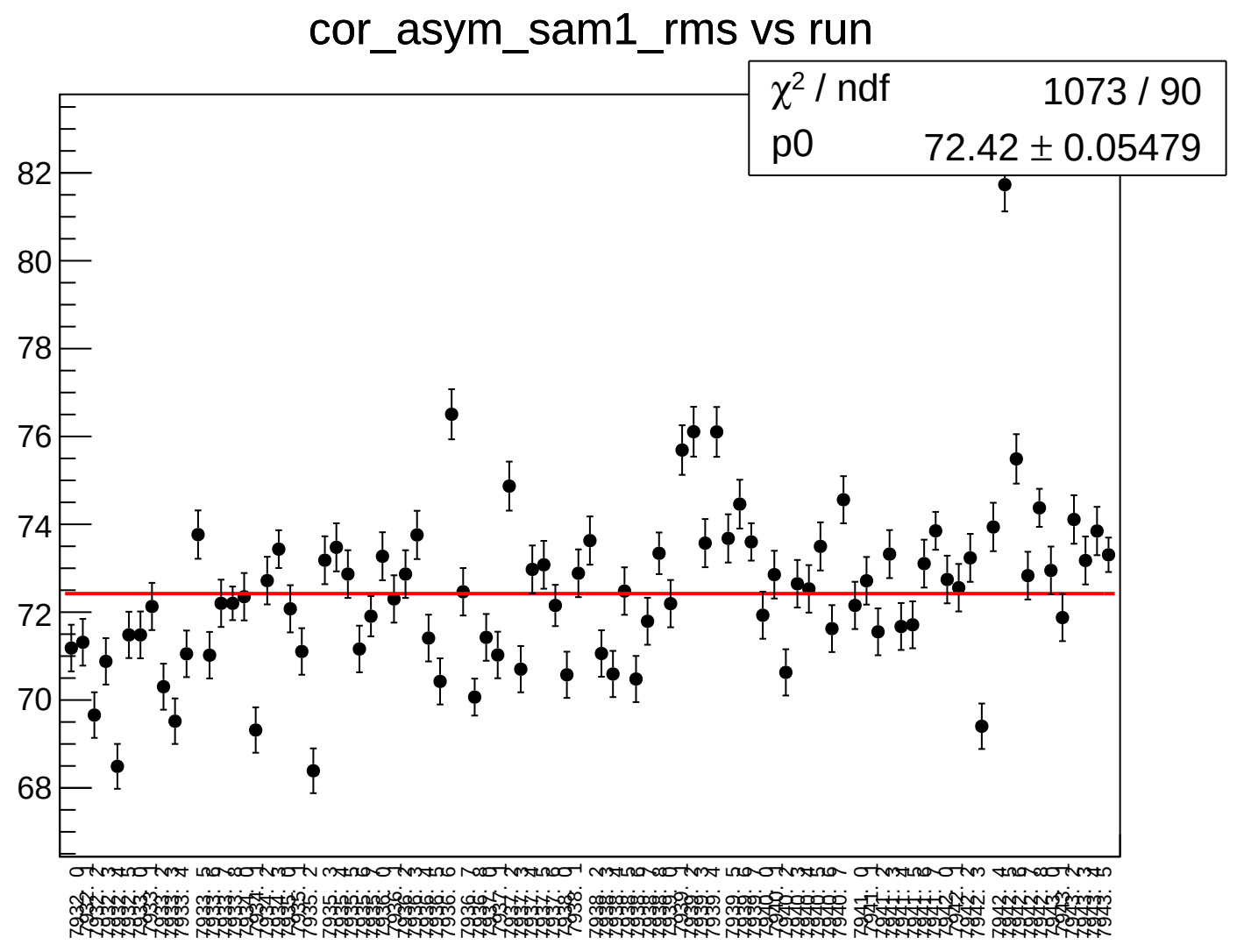

asym_sam1_reg_correction_mean vs run
χ² / ndf 106.2 / 90
p0 −13.18 ± 508.6
pull
Entries 91
Mean −46.46
Std Dev 0

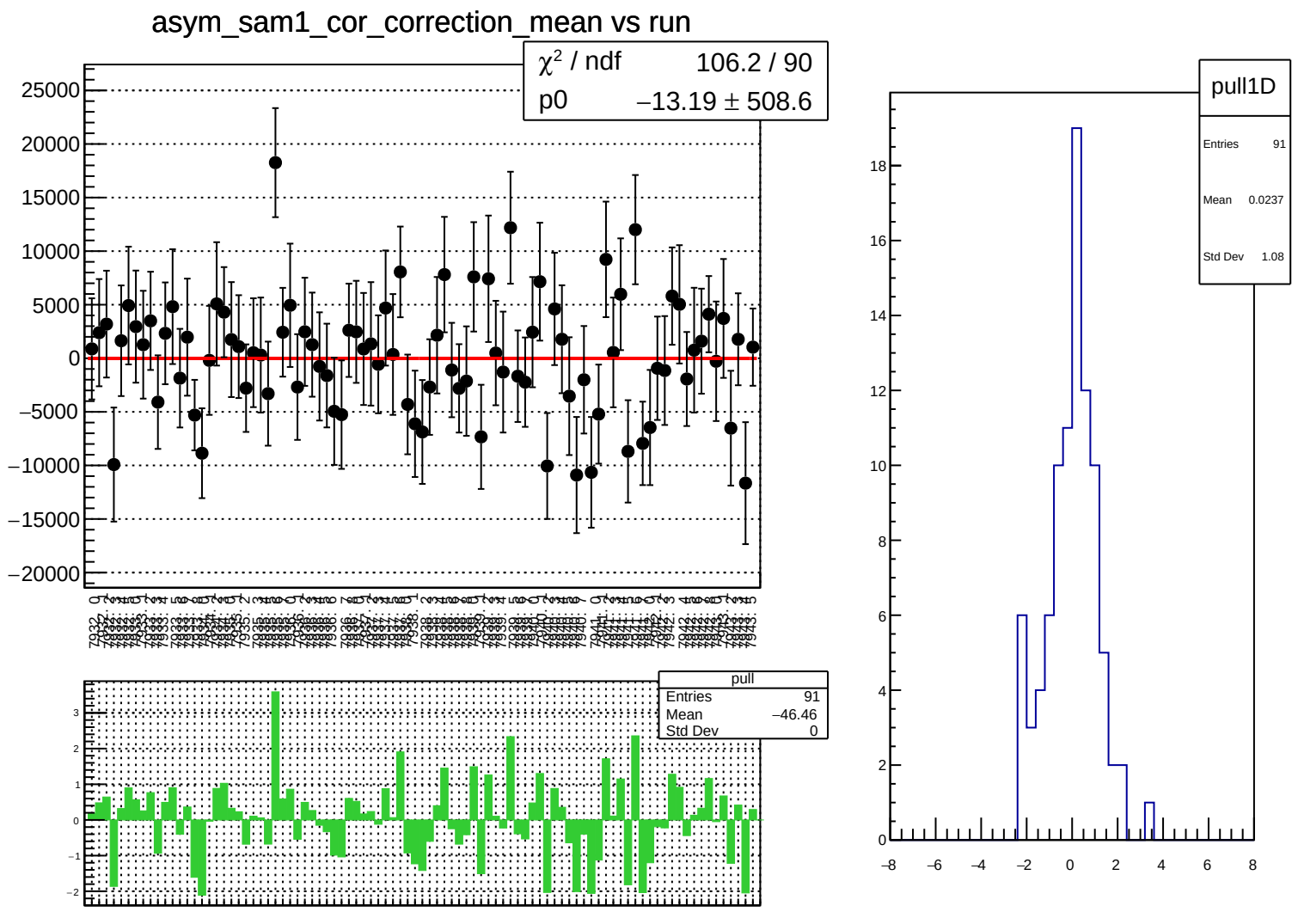

pull1D
Entries 91
Mean 0.02369
Std Dev 1.08

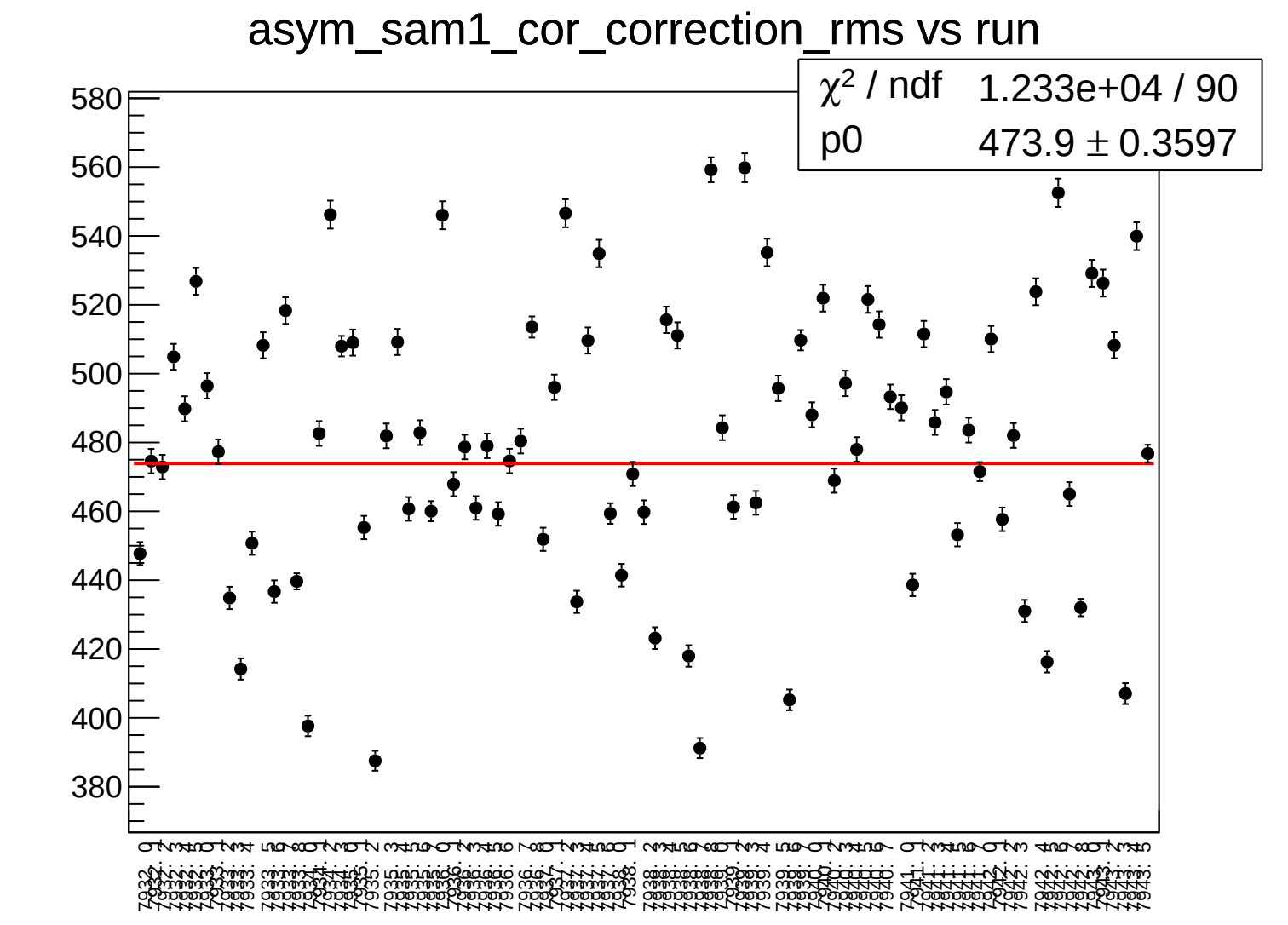

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.233e+04 / 90
p0 473.9 ± 0.3597
580
560
540
520
500
480
460
440
420
400
380

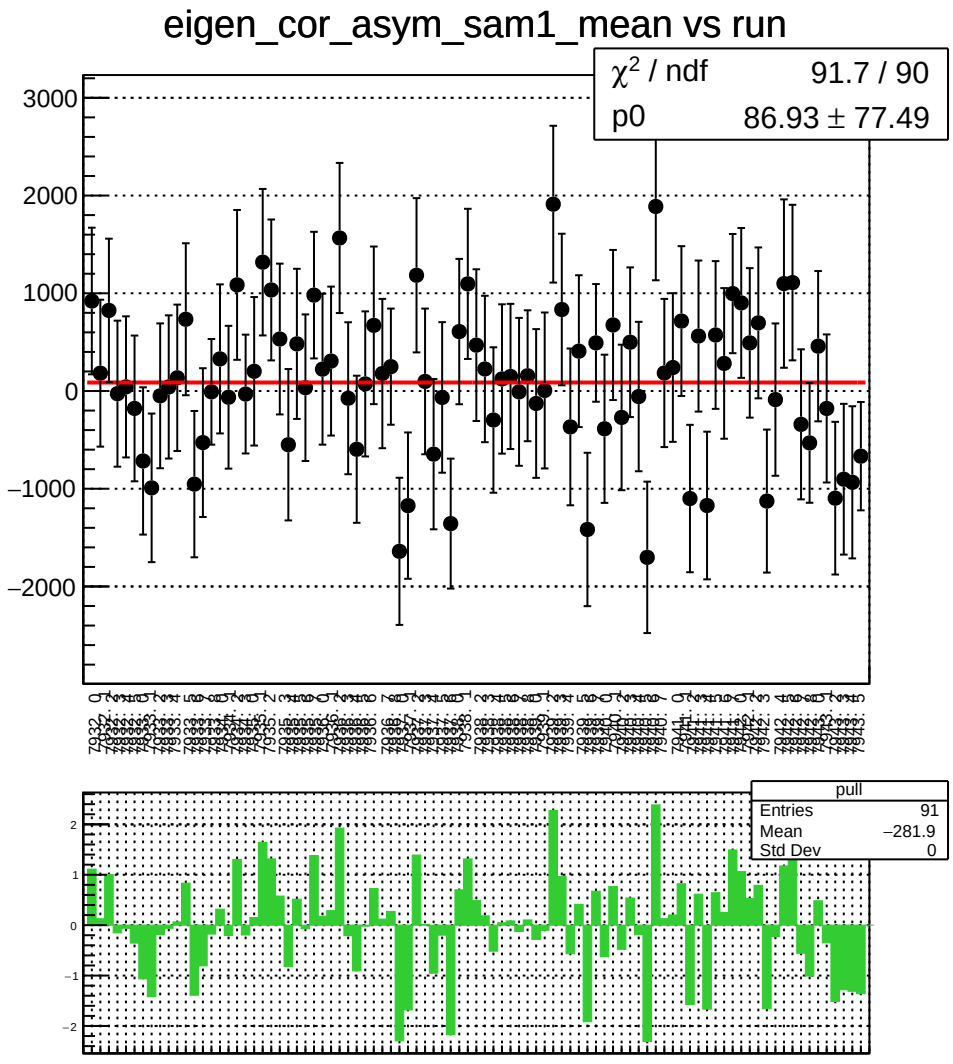

cor_asym_sam1_mean vs run
χ² / ndf 91.7 / 90
p0 86.93 ± 77.49
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −281.9
Std Dev 0
2
1
0
−1
−2

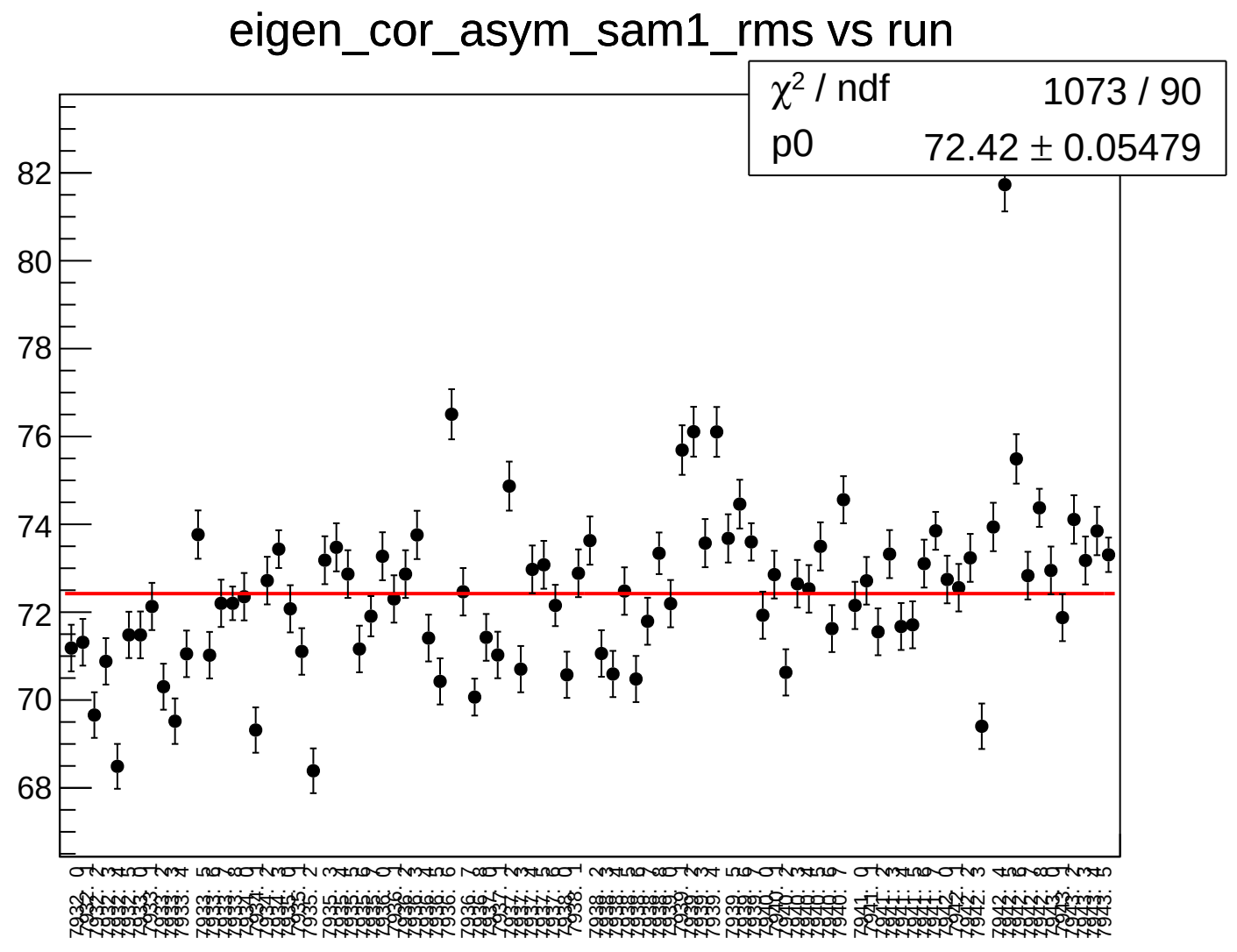

pull1D
Entries 91
Mean 0.007262
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

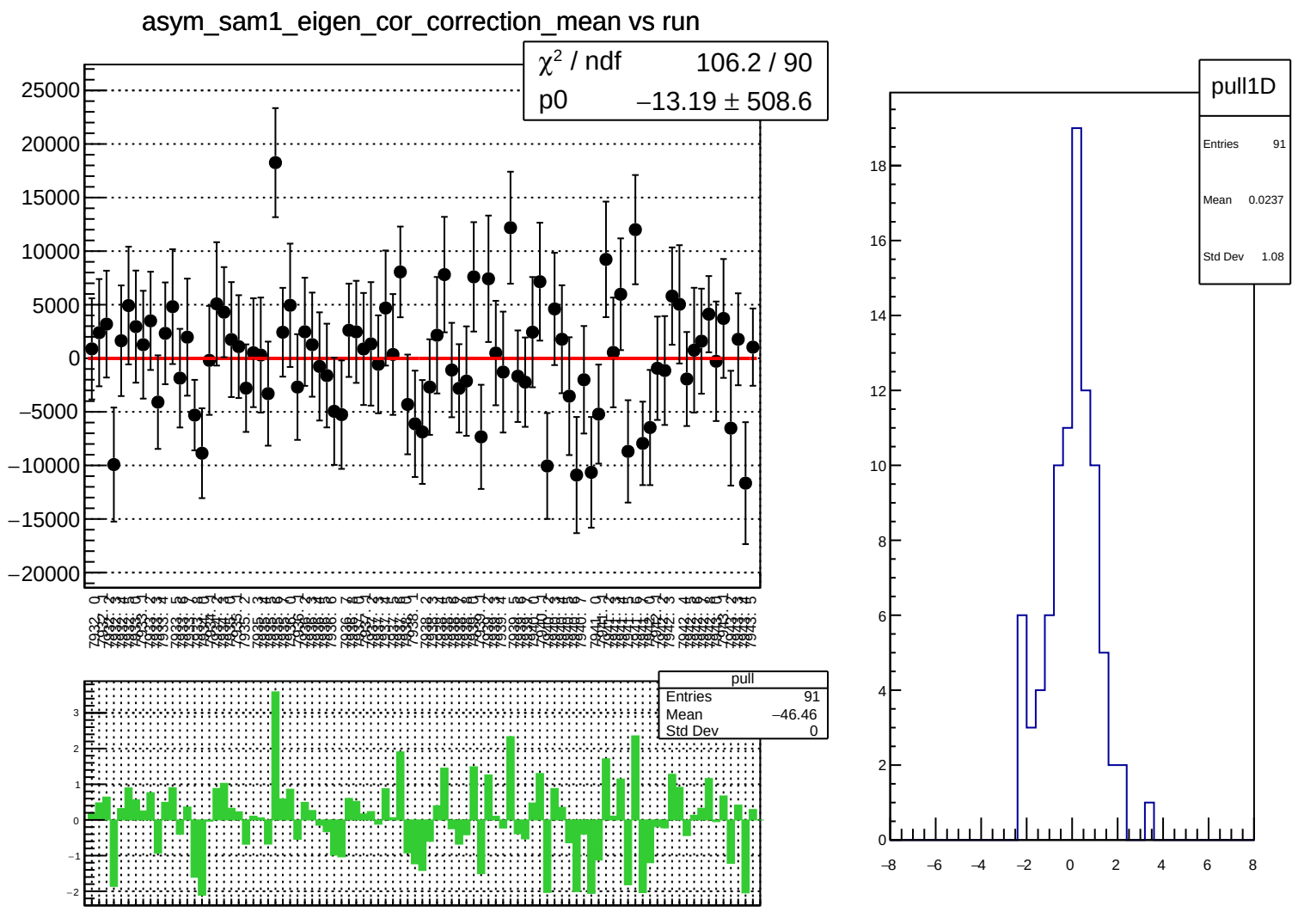

cor_asym_sam1_rms vs run
χ² / ndf 1073 / 90
p0 72.42 ± 0.05479
82
80
78
76
74
72
70
68

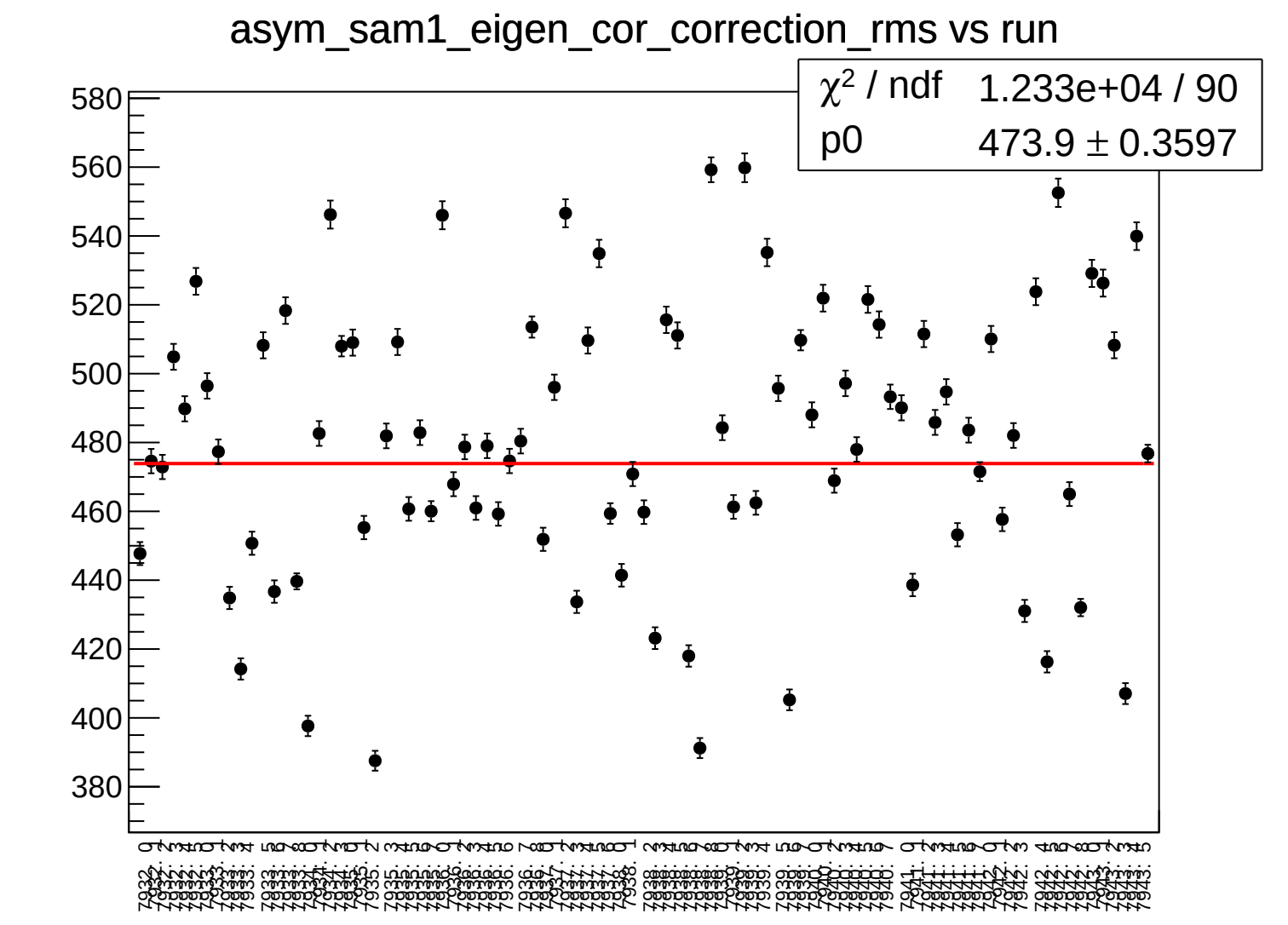

asym_sam1_cor_correction_mean vs run
χ² / ndf 106.2 / 90
p0 −13.19 ± 508.6
pull
Entries 91
Mean −46.46
Std Dev 0
pull1D
Entries 91
Mean 0.0237
Std Dev 1.08

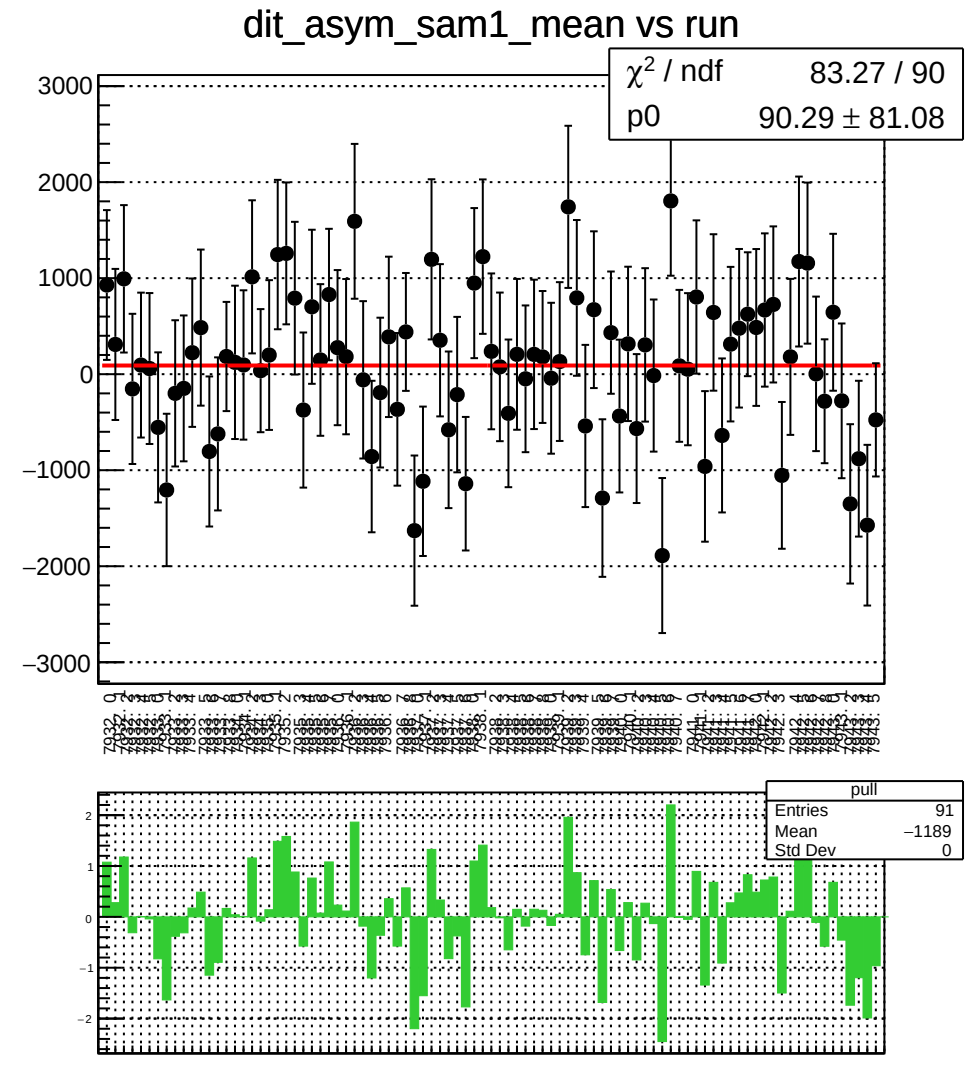

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.233e+04 / 90
p0 473.9 ± 0.3597
580
560
540
520
500
480
460
440
420
400
380

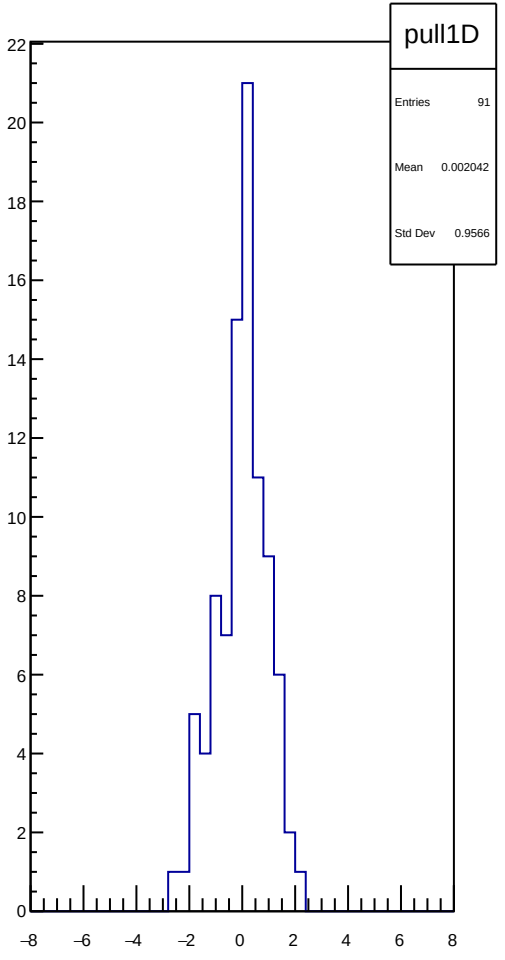

eigen_cor_asym_sam1_mean vs run
χ² / ndf 91.7 / 90
p0 86.93 ± 77.49
pull
Entries 91
Mean −281.9
Std Dev 0
pull1D
Entries 91
Mean 0.007262
Std Dev 1.004

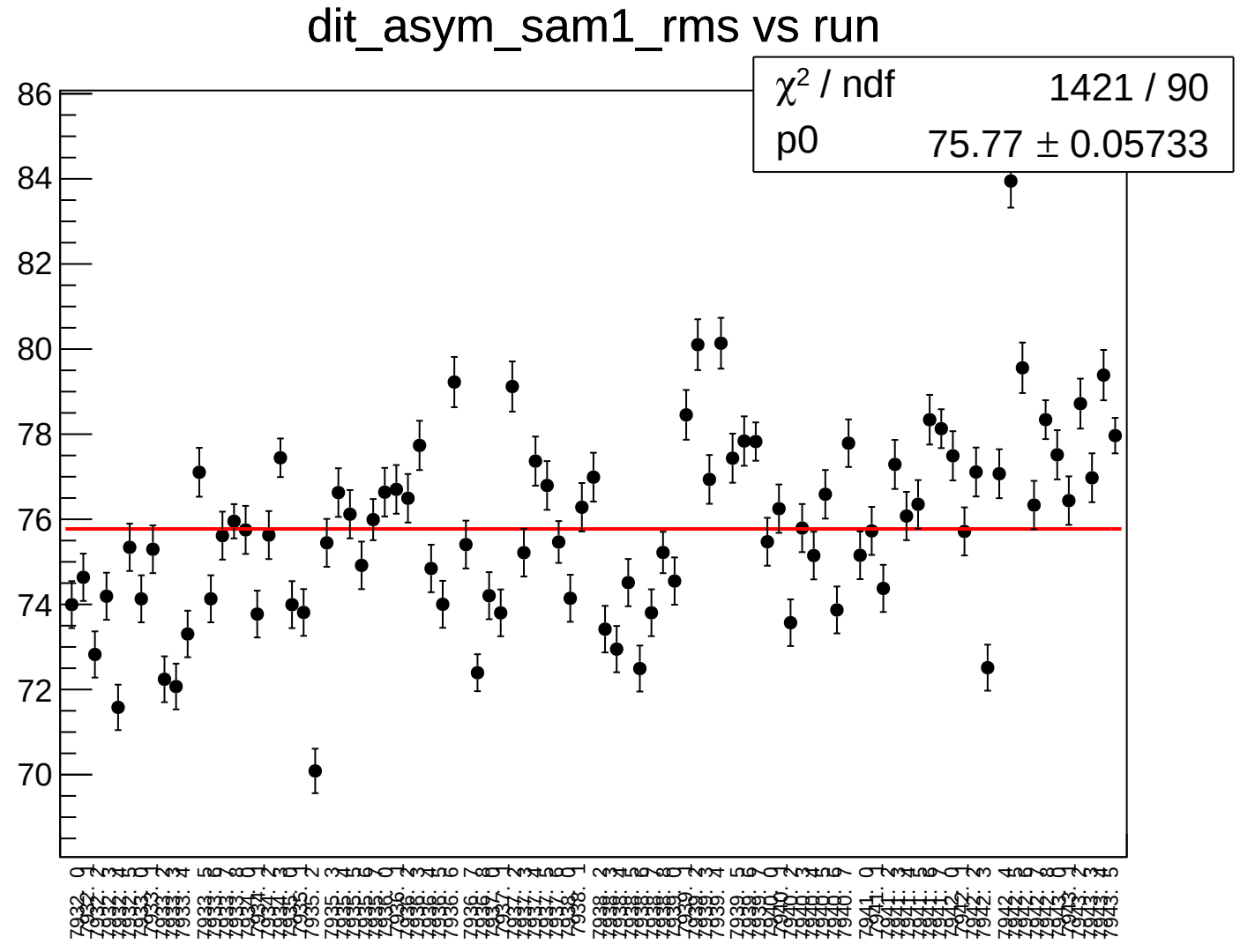

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1073 / 90
p0 72.42 ± 0.05479
82
80
78
76
74
72
70
68

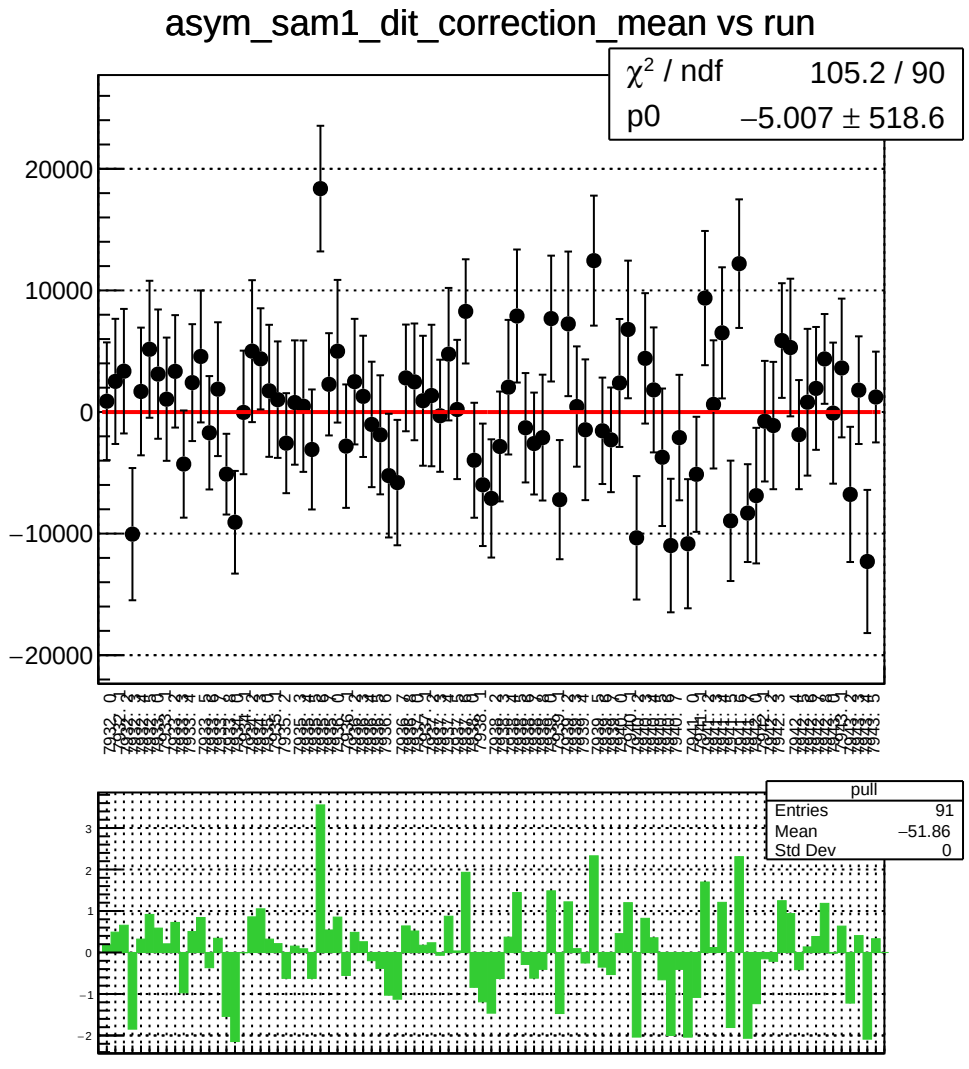

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 106.2 / 90
p0 −13.19 ± 508.6
pull
Entries 91
Mean −46.46
Std Dev 0
pull1D
Entries 91
Mean 0.0237
Std Dev 1.08

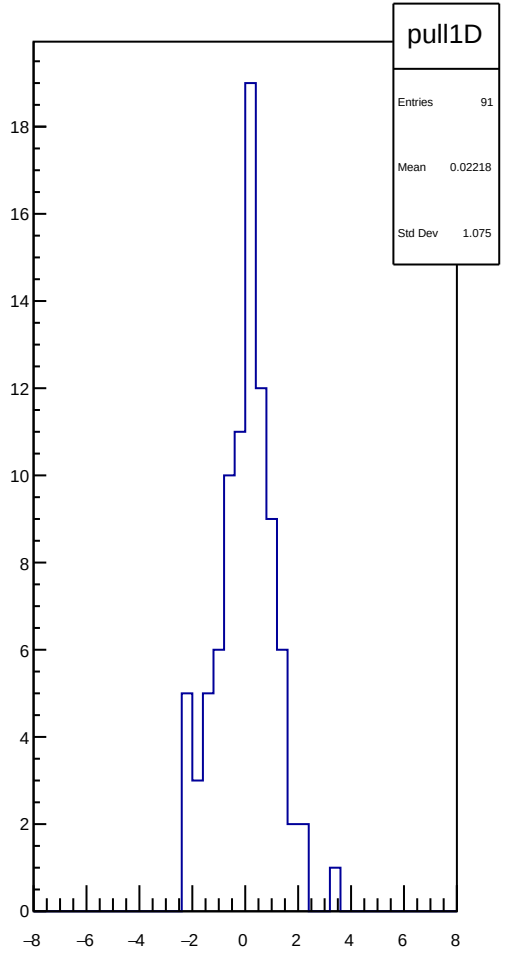

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.233e+04 / 90
p0 473.9 ± 0.3597
580
560
540
520
500
480
460
440
420
400
380

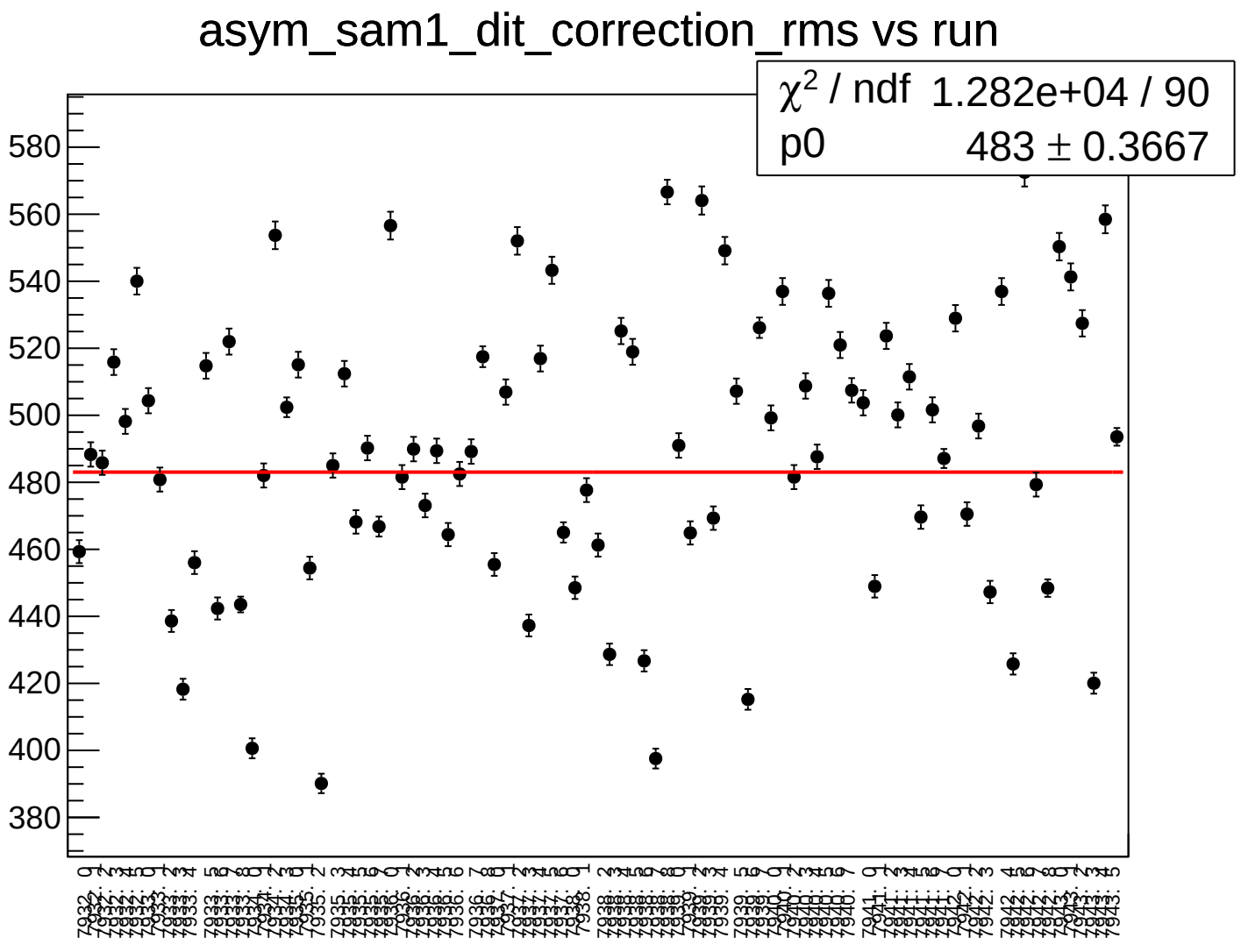

dit_asym_sam1_mean vs run
χ² / ndf 83.27 / 90
p0 90.29 ± 81.08
pull
Entries 91
Mean −1189
Std Dev 0

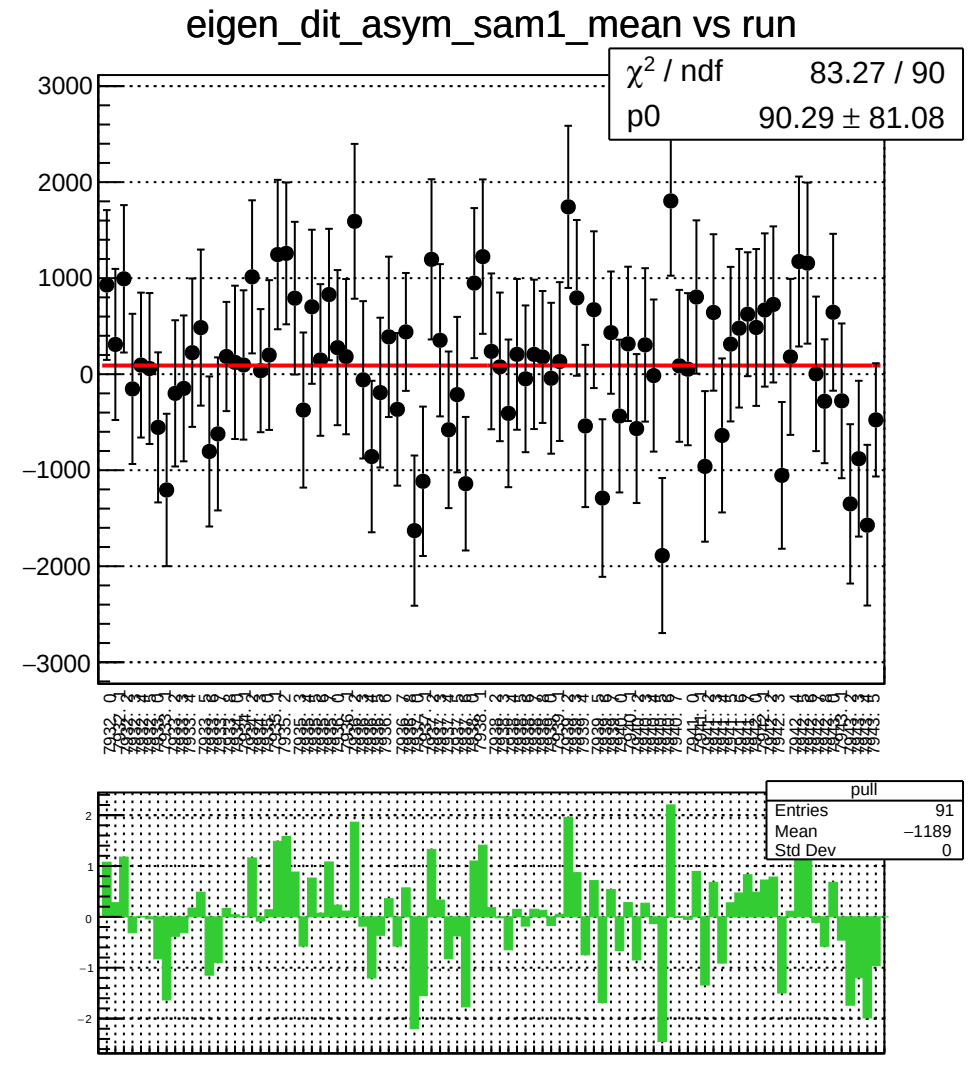

pull1D
Entries 91
Mean 0.002042
Std Dev 0.9566

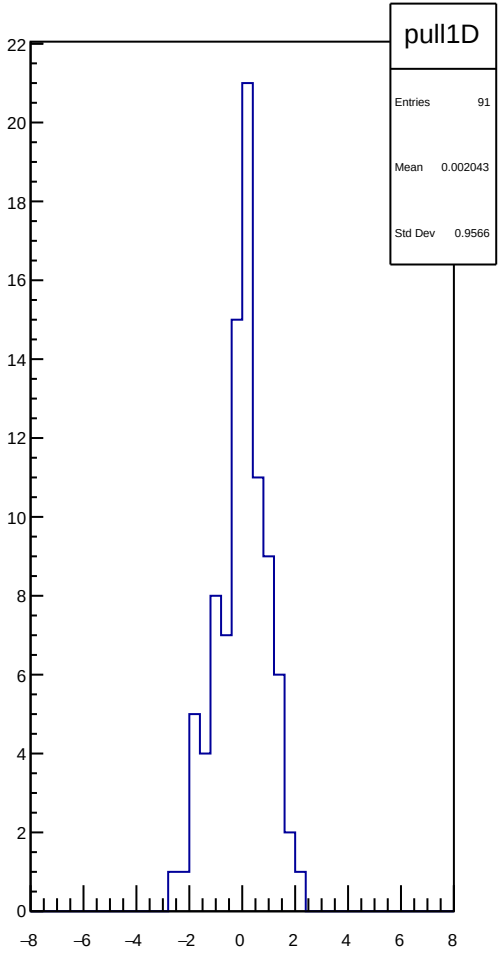

dit_asym_sam1_rms vs run
χ^2 / ndf 1421 / 90
p0 75.77 ± 0.05733
86
84
82
80
78
76
74
72
70

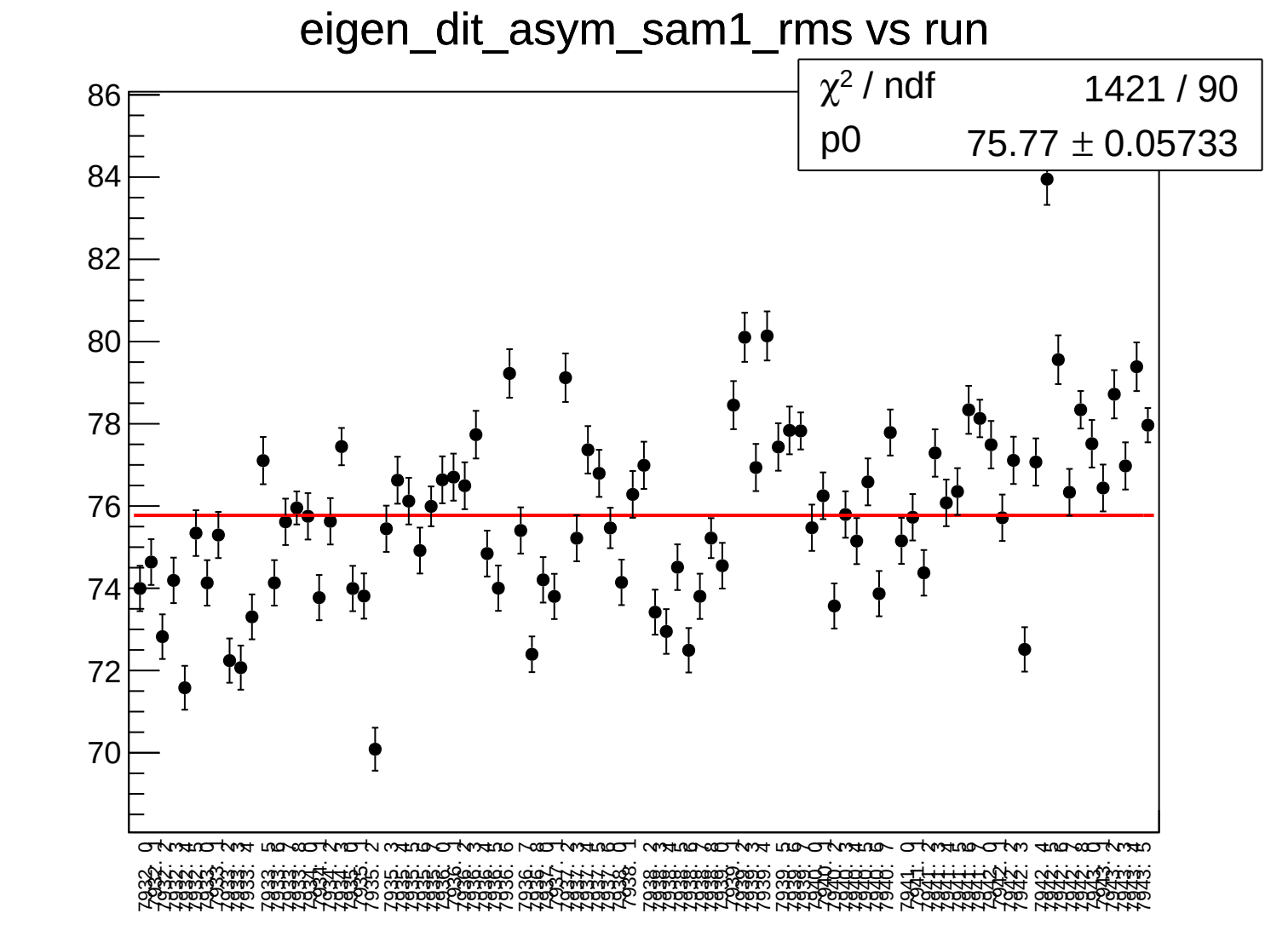

asym_sam1_dit_correction_mean vs run
χ² / ndf 105.2 / 90
p0 −5.007 ± 518.6
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −51.86
Std Dev 0
3
2
1
0
−1
−2

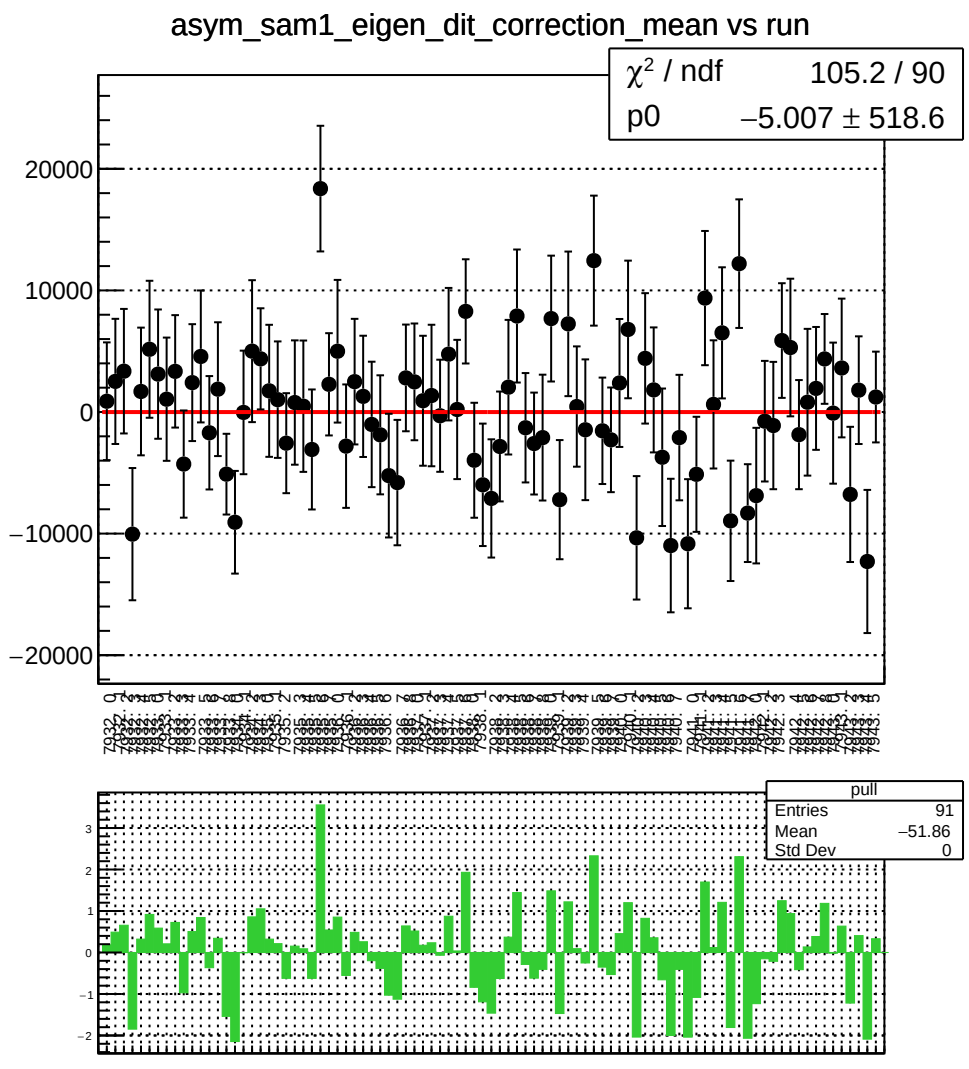

pull1D
Entries 91
Mean 0.02218
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

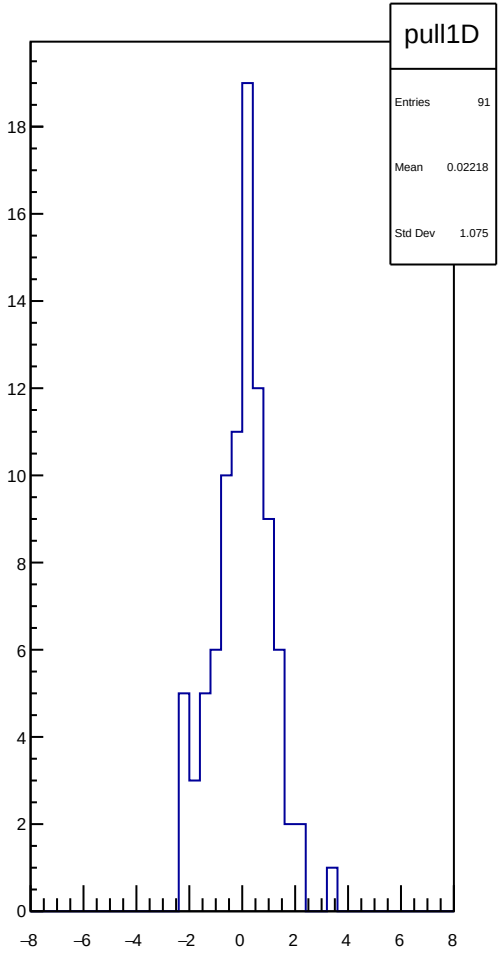

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.282e+04 / 90
p0 483 ± 0.3667
580
560
540
520
500
480
460
440
420
400
380

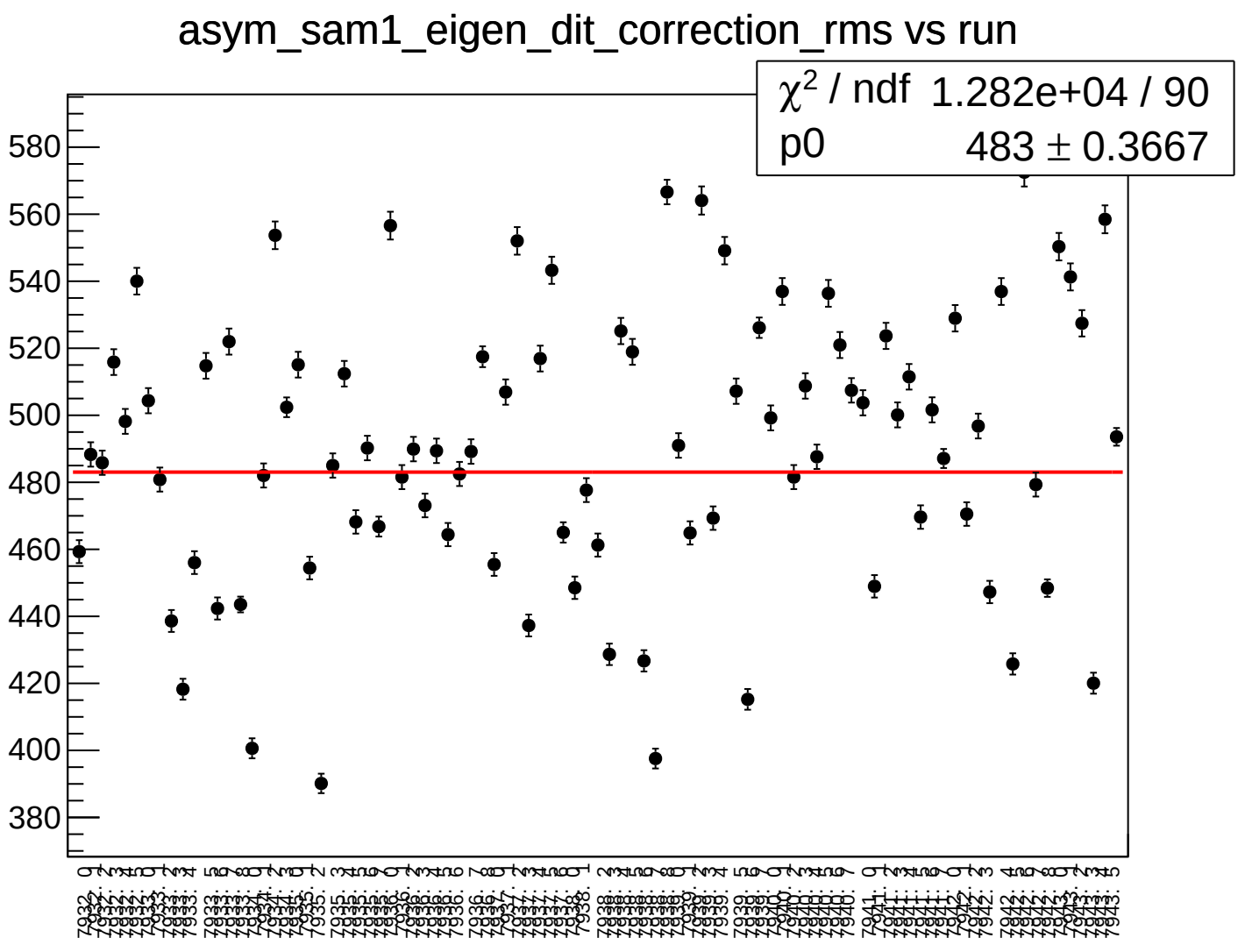

eigen_dit_asym_sam1_mean vs run
χ² / ndf 83.27 / 90
p0 90.29 ± 81.08
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −1189
Std Dev 0
2
1
0
−1
−2

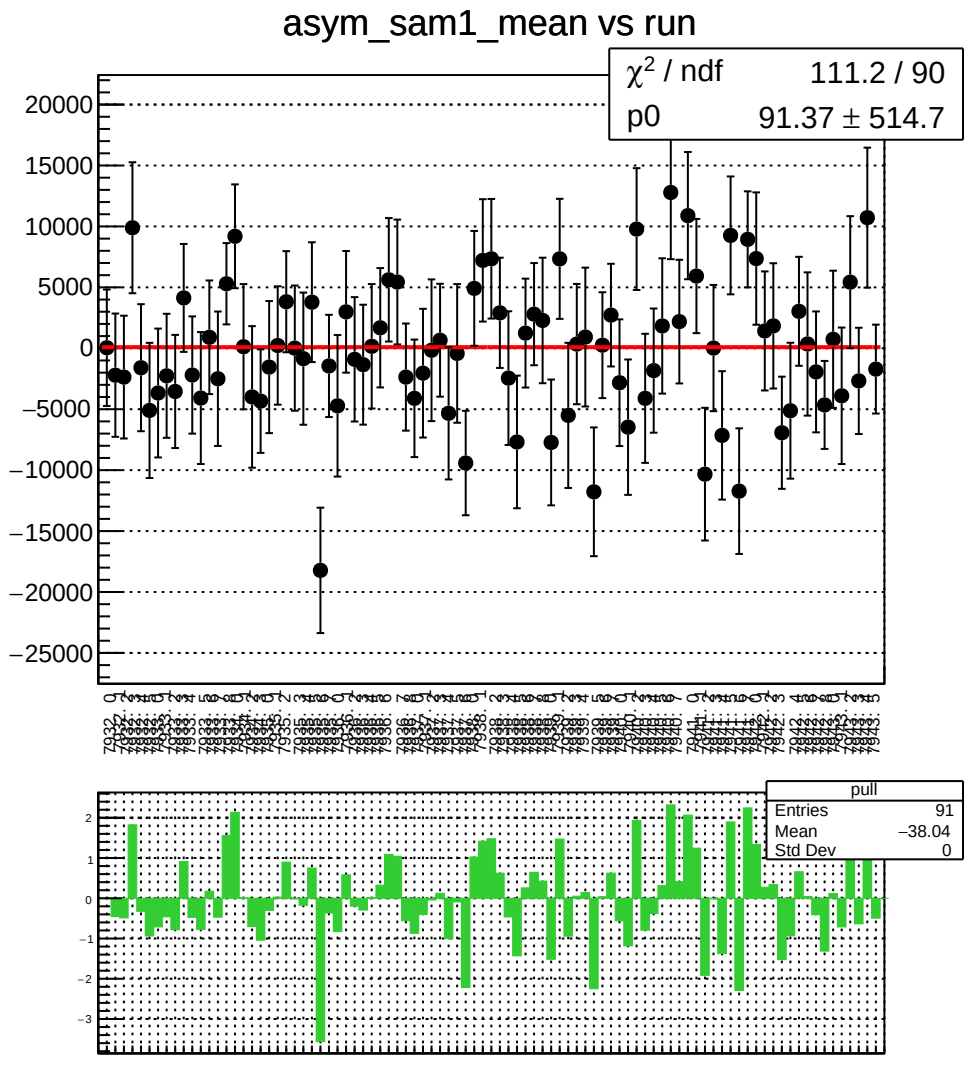

pull1D
Entries 91
Mean 0.002043
Std Dev 0.9566
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

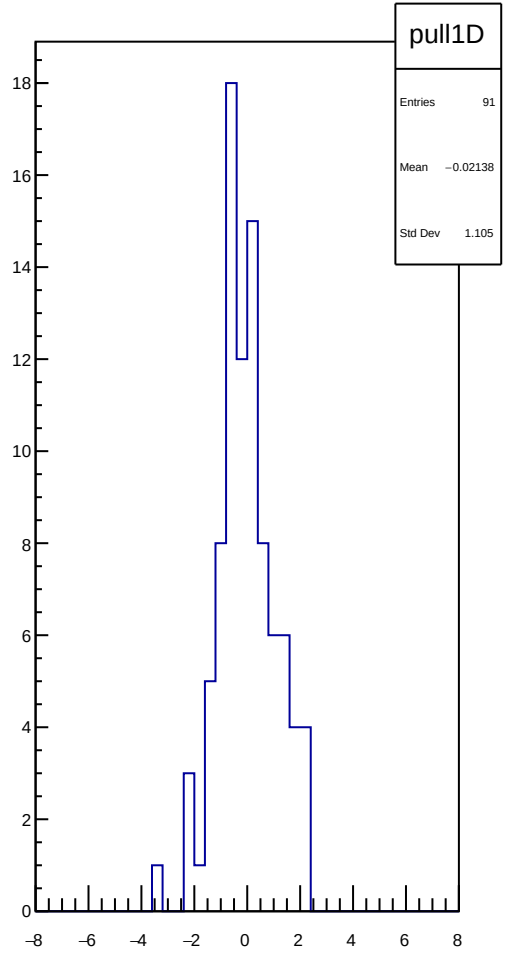

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1421 / 90
p0 75.77 ± 0.05733
86
84
82
80
78
76
74
72
70

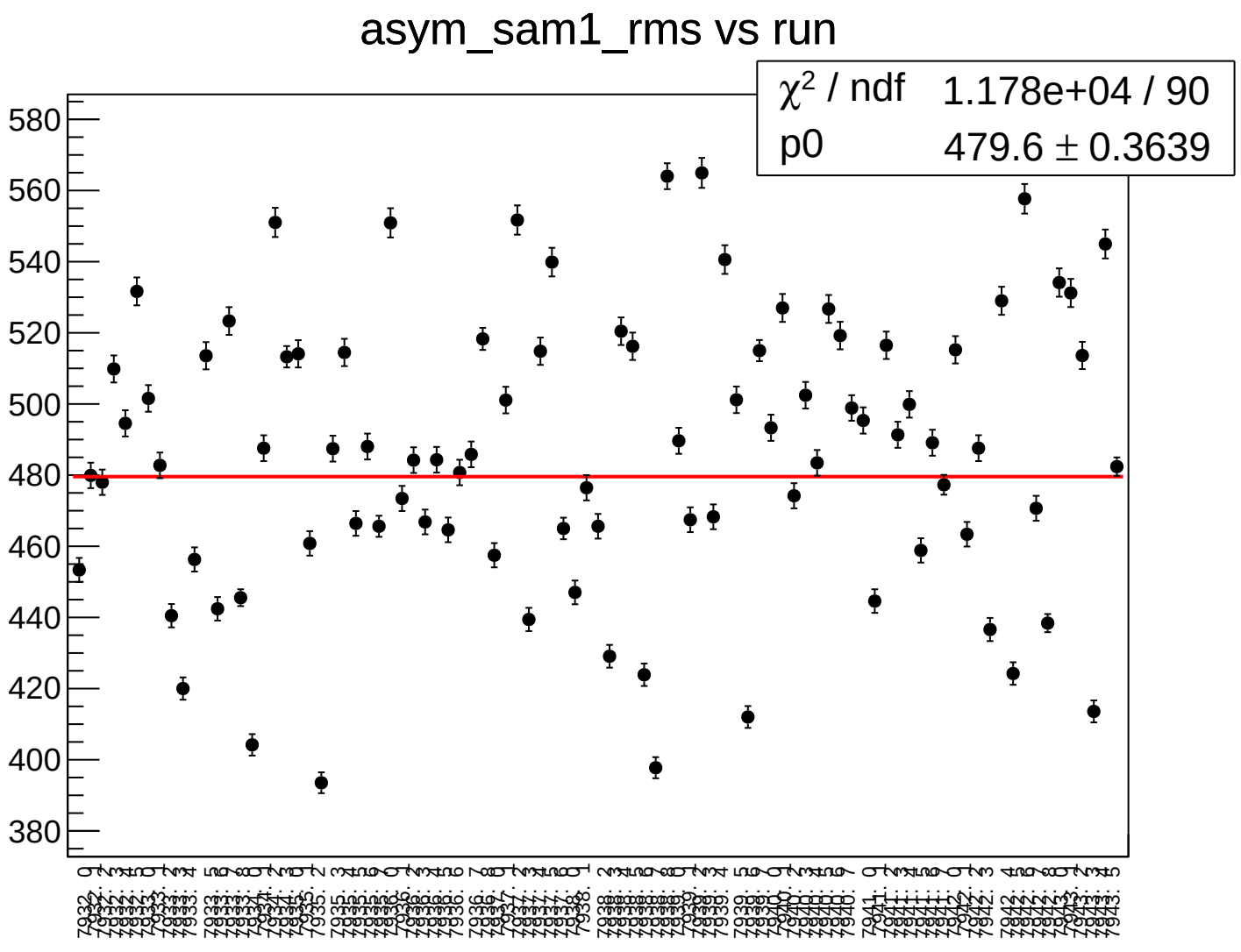

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 105.2 / 90
p0 −5.007 ± 518.6
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −51.86
Std Dev 0
3
2
1
0
−1
−2

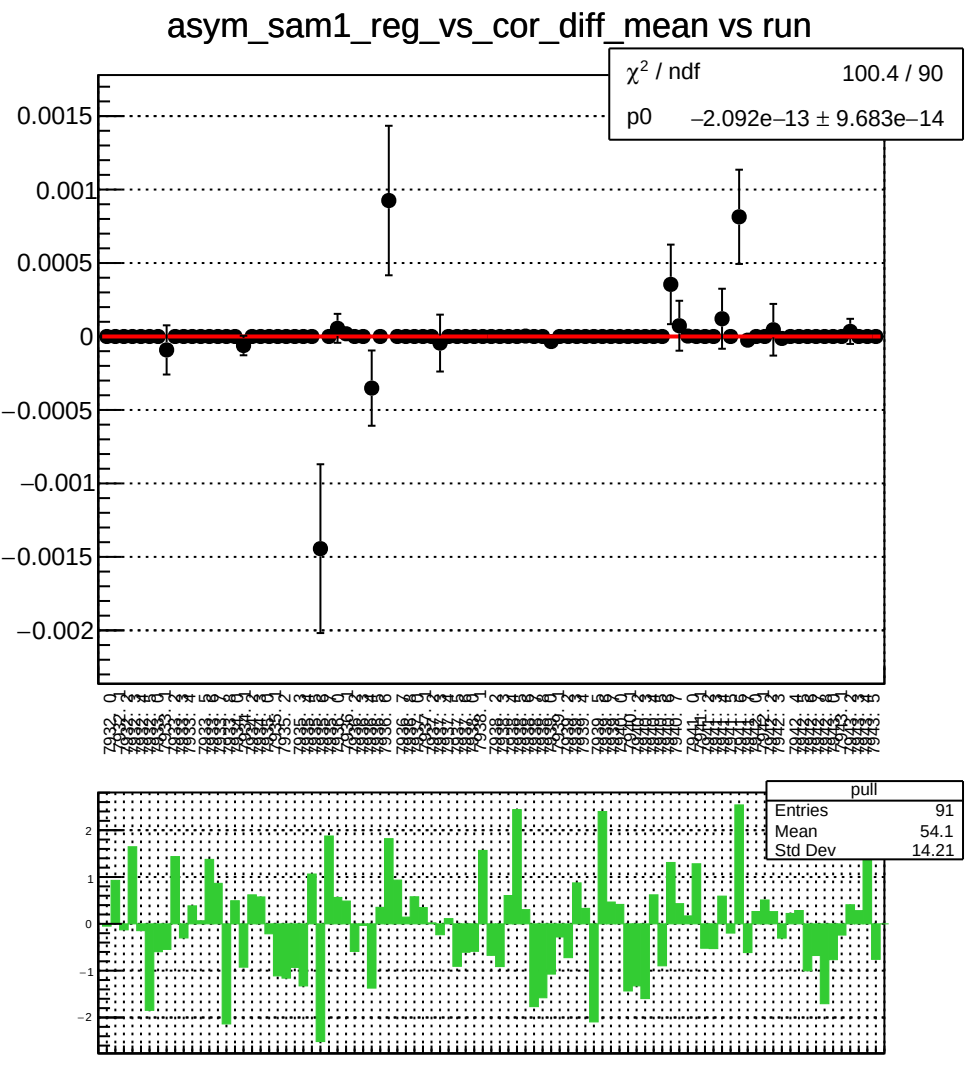

pull1D
Entries 91
Mean 0.02218
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

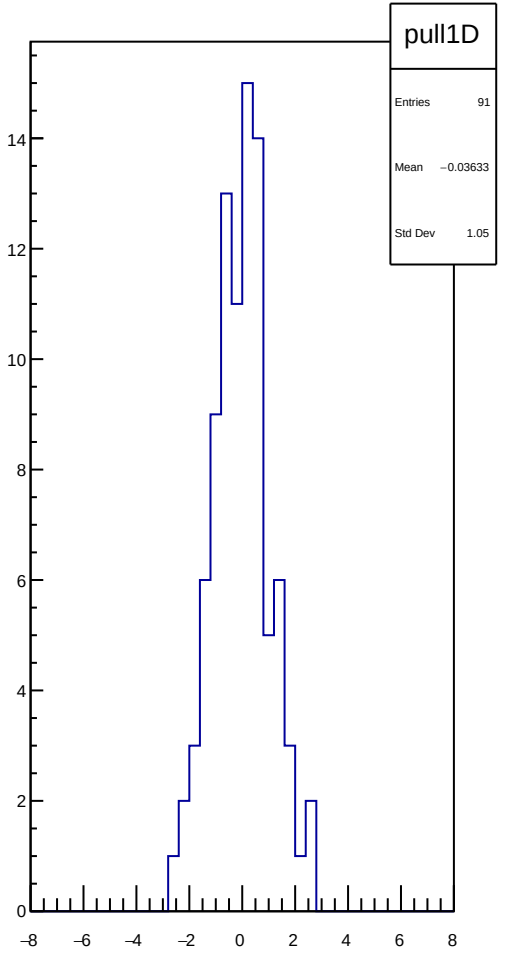

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.282e+04 / 90
p0 483 ± 0.3667
580
560
540
520
500
480
460
440
420
400
380

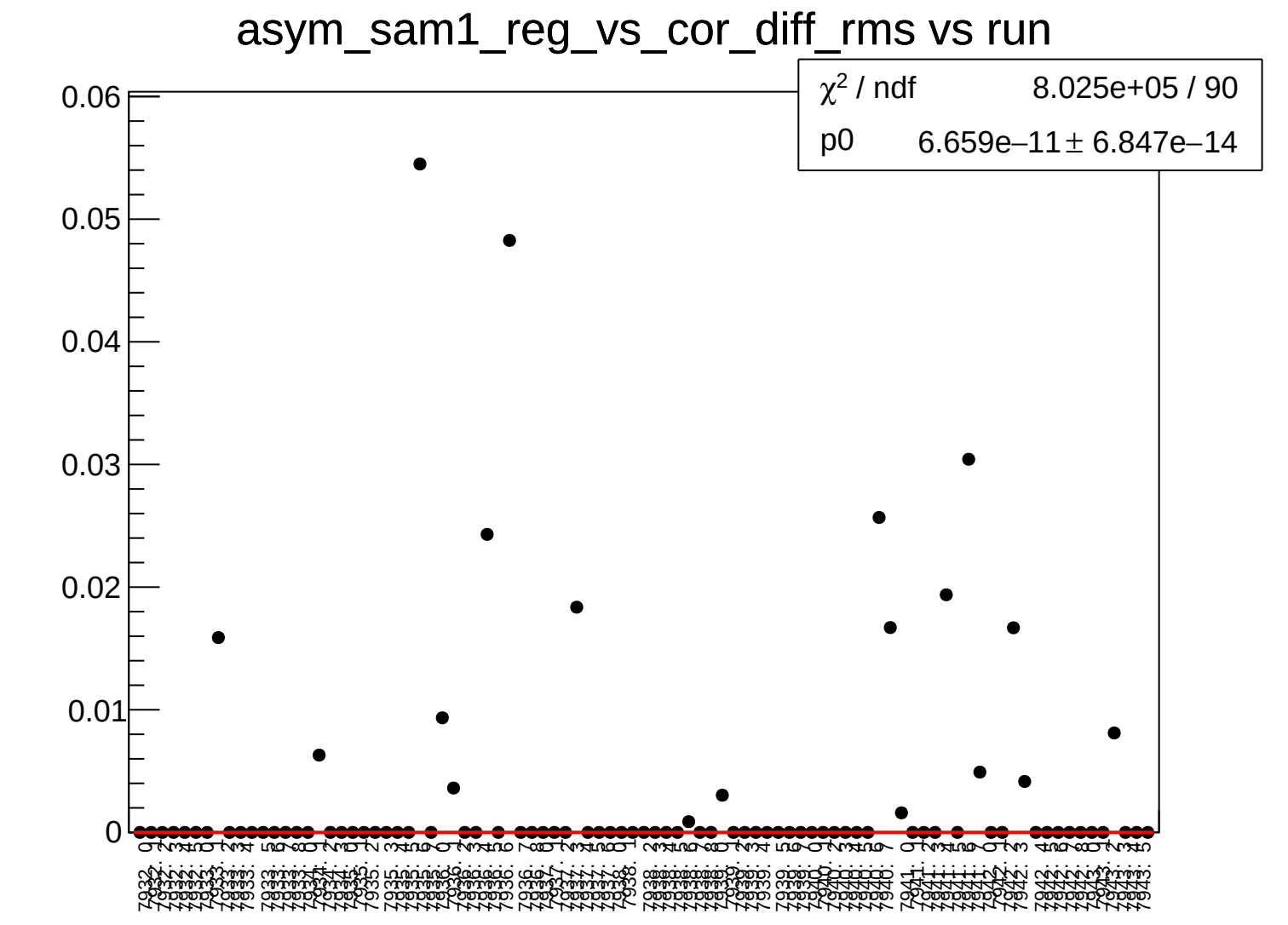

asym_sam1_mean vs run
χ² / ndf 111.2 / 90
p0 91.37 ± 514.7
pull
Entries 91
Mean −38.04
Std Dev 0

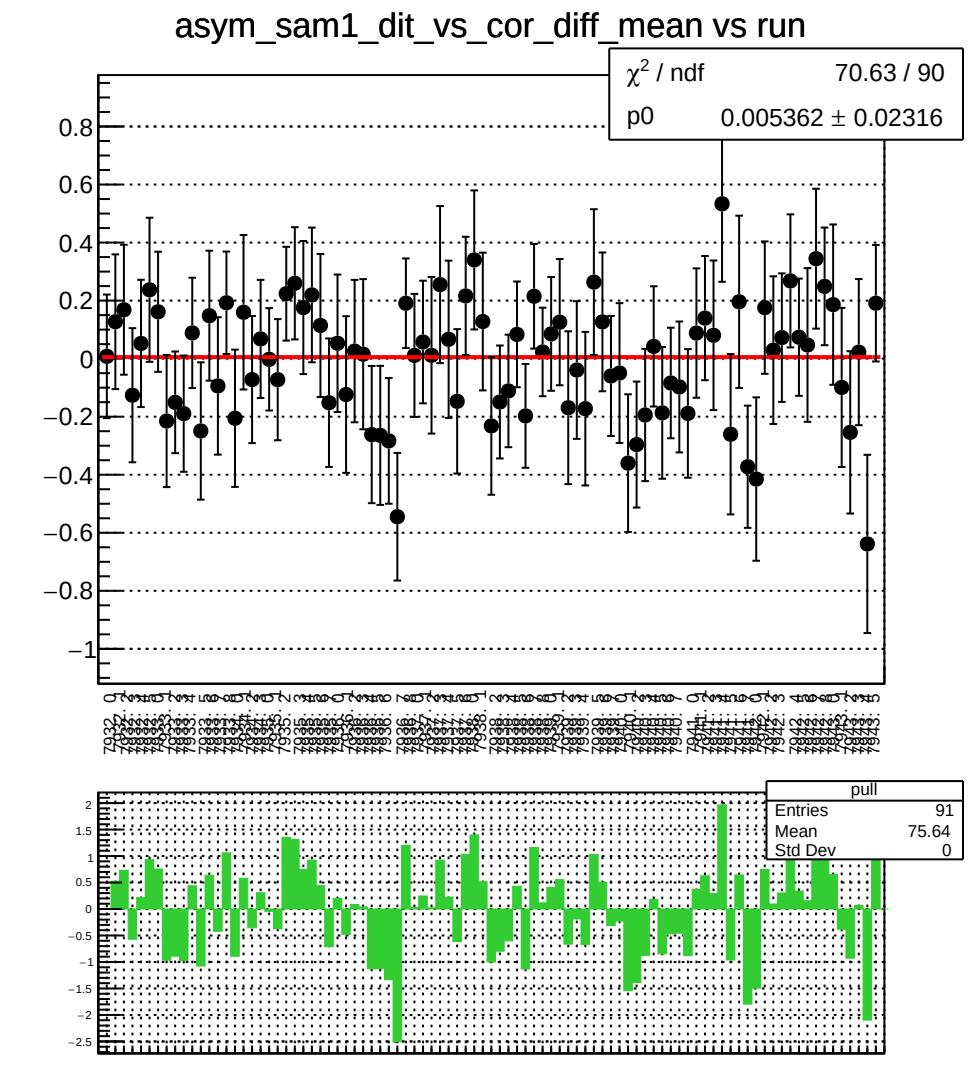

pull1D
Entries 91
Mean −0.02138
Std Dev 1.105

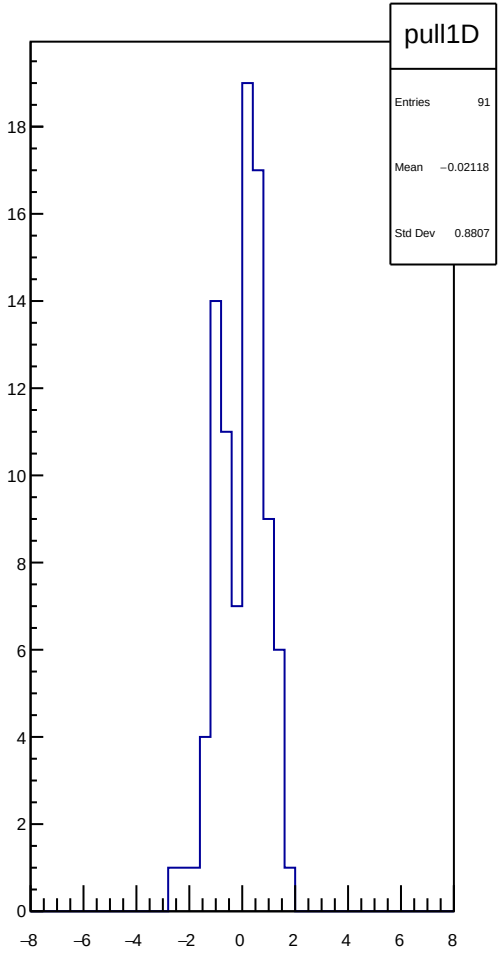

asym_sam1_rms vs run
χ² / ndf 1.178e+04 / 90
p0 479.6 ± 0.3639
580
560
540
520
500
480
460
440
420
400
380

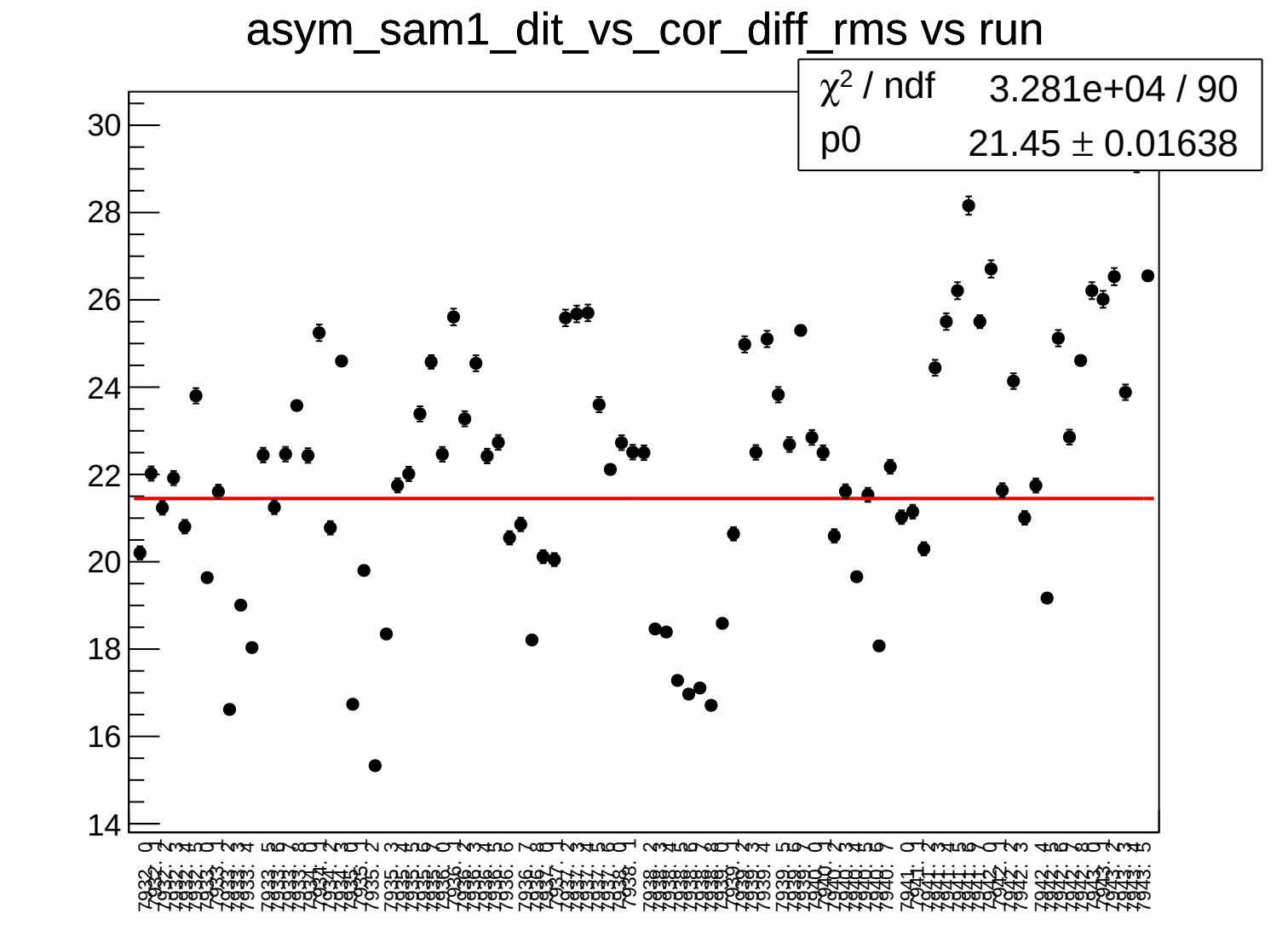

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 −2.092e−13 ± 9.683e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 54.1
Std Dev 14.21
2
1
0
−1
−2

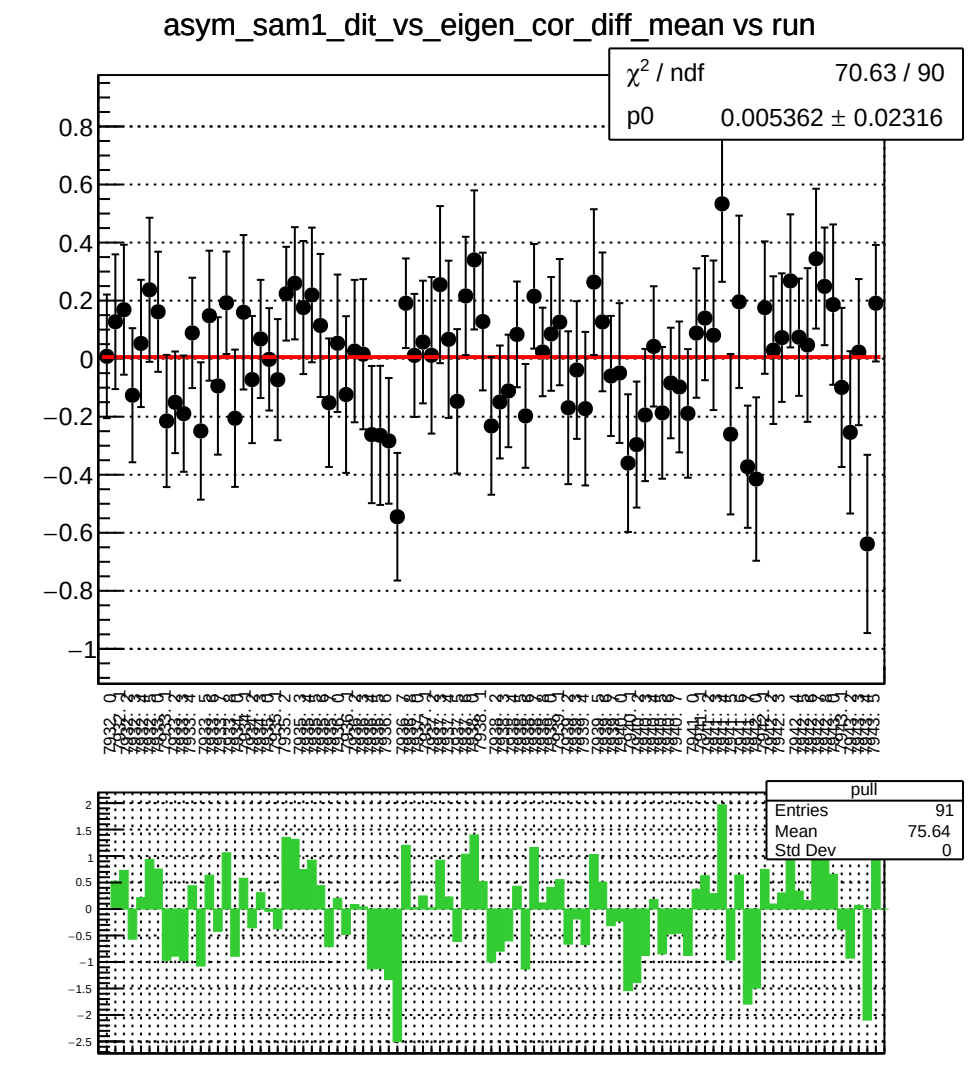

pull1D
Entries 91
Mean −0.03633
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

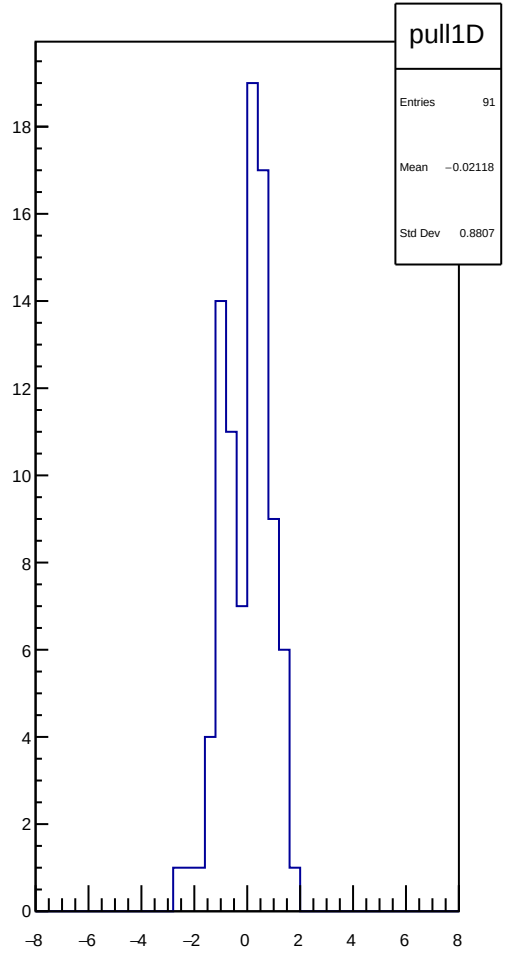

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.025e+05 / 90
p0 6.659e−11 ± 6.847e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

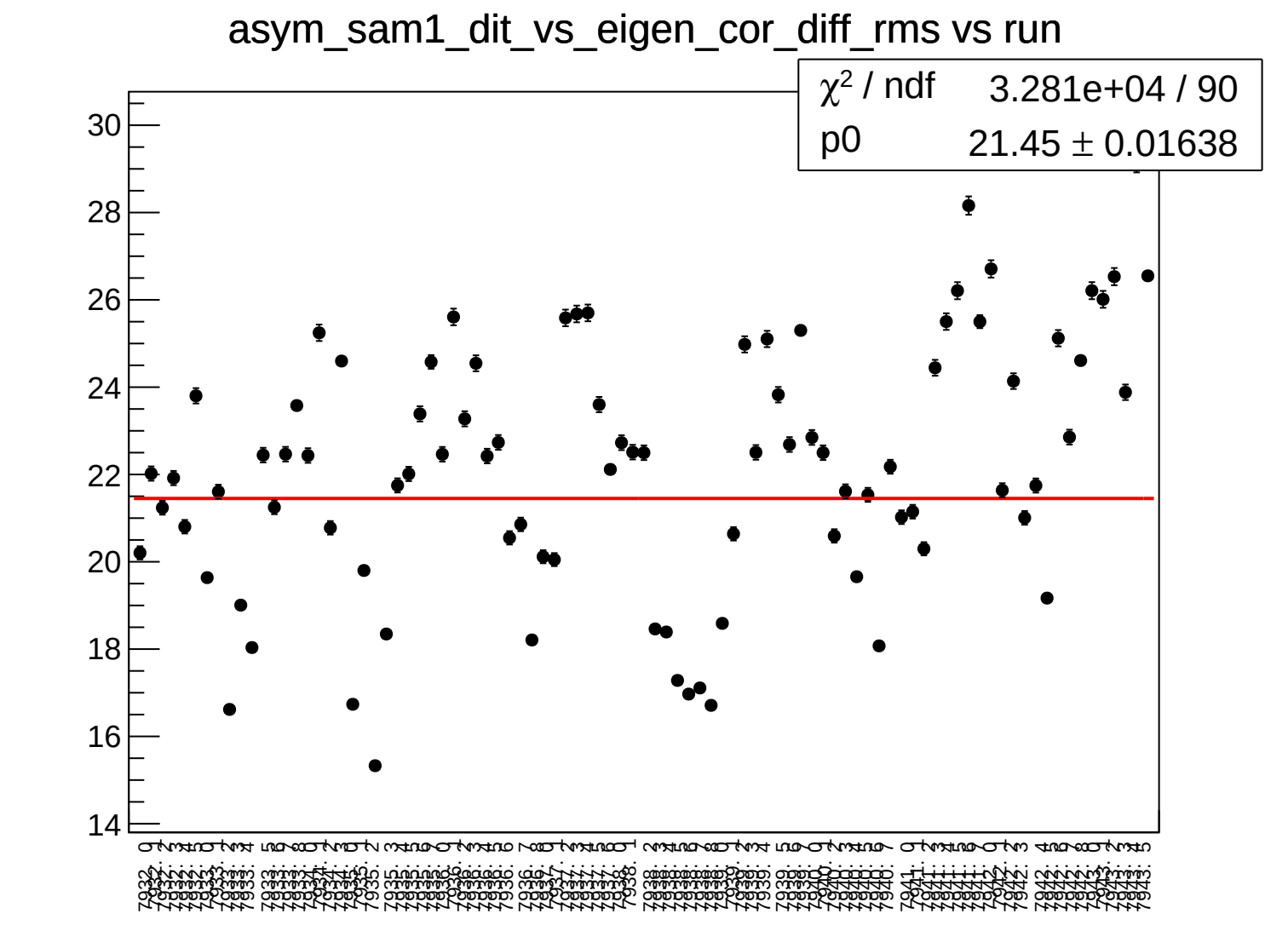

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 70.63 / 90
p0 0.005362 ± 0.02316
pull
Entries 91
Mean 75.64
Std Dev 0

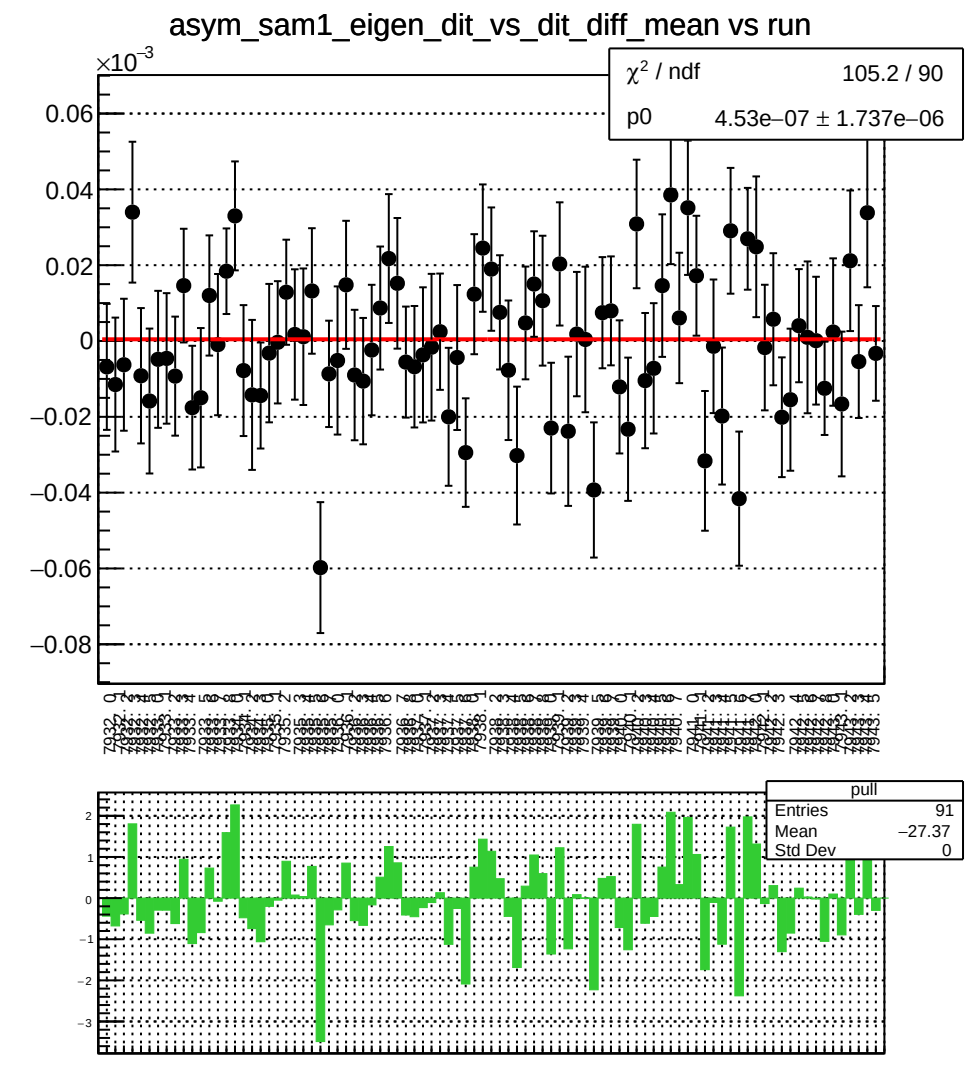

pull1D
Entries 91
Mean −0.02118
Std Dev 0.8807

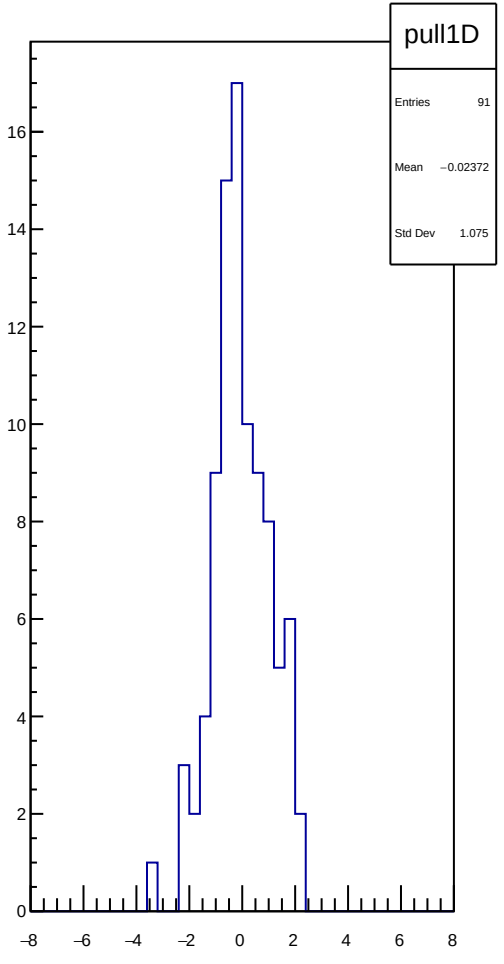

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.281e+04 / 90
p0 21.45 ± 0.01638
30
28
26
24
22
20
18
16
14

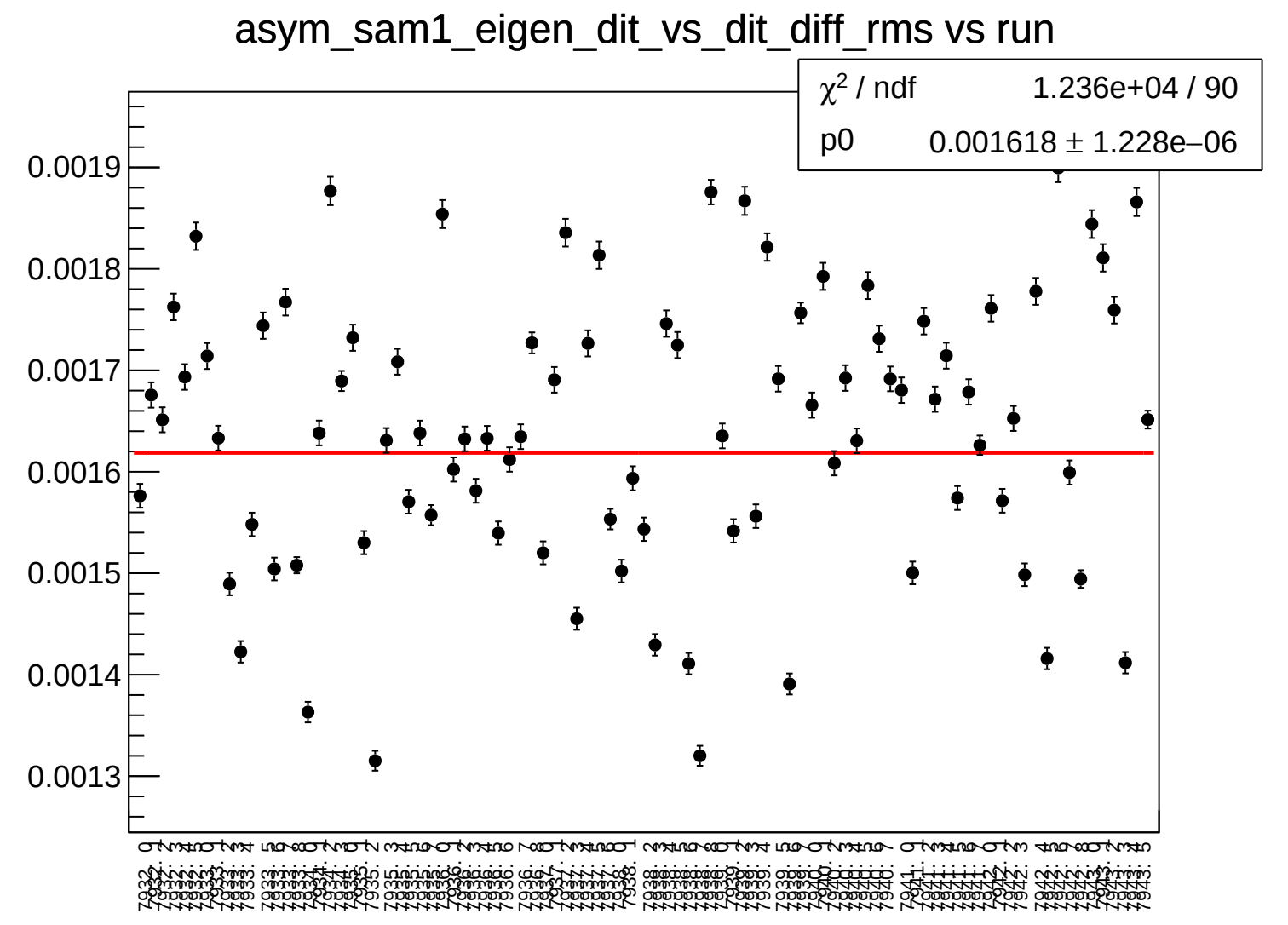

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.63 / 90
p0 0.005362 ± 0.02316
pull
Entries 91
Mean 75.64
Std Dev 0

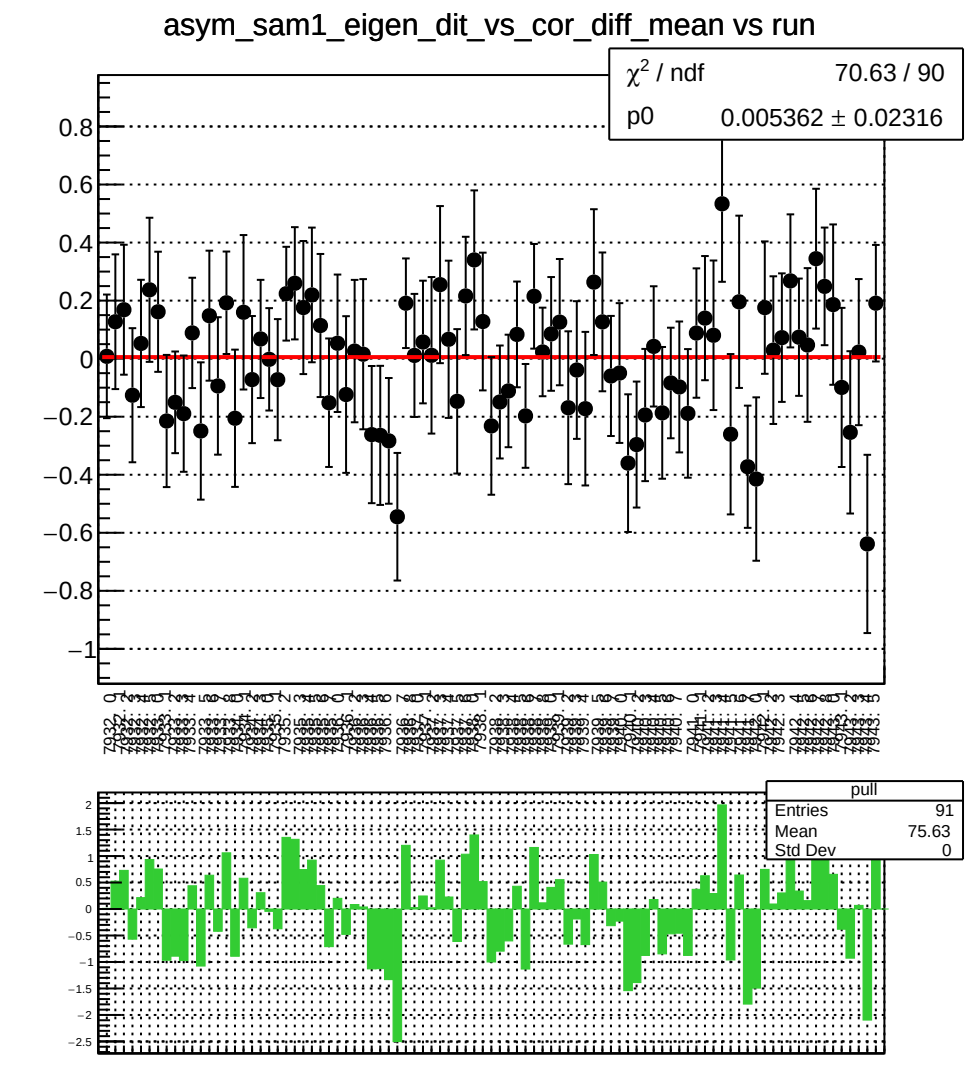

pull1D
Entries 91
Mean −0.02118
Std Dev 0.8807

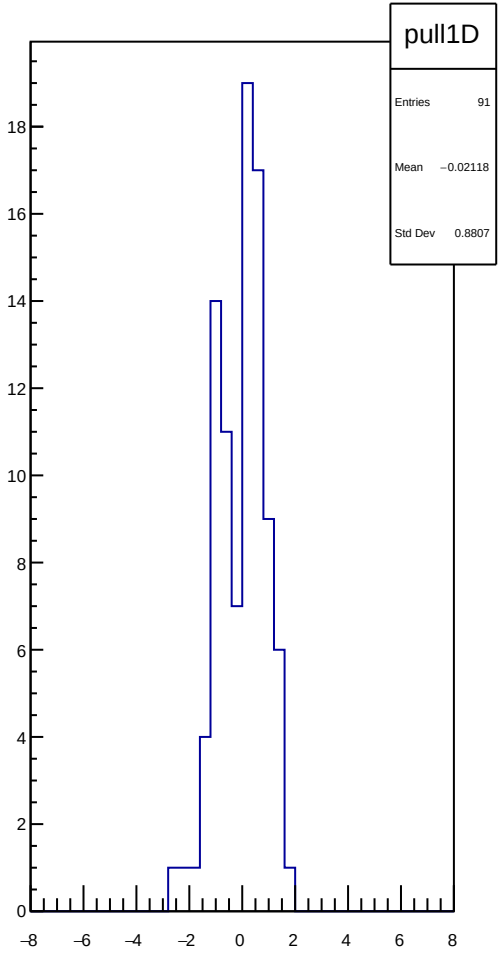

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.281e+04 / 90
p0 21.45 ± 0.01638
30
28
26
24
22
20
18
16
14

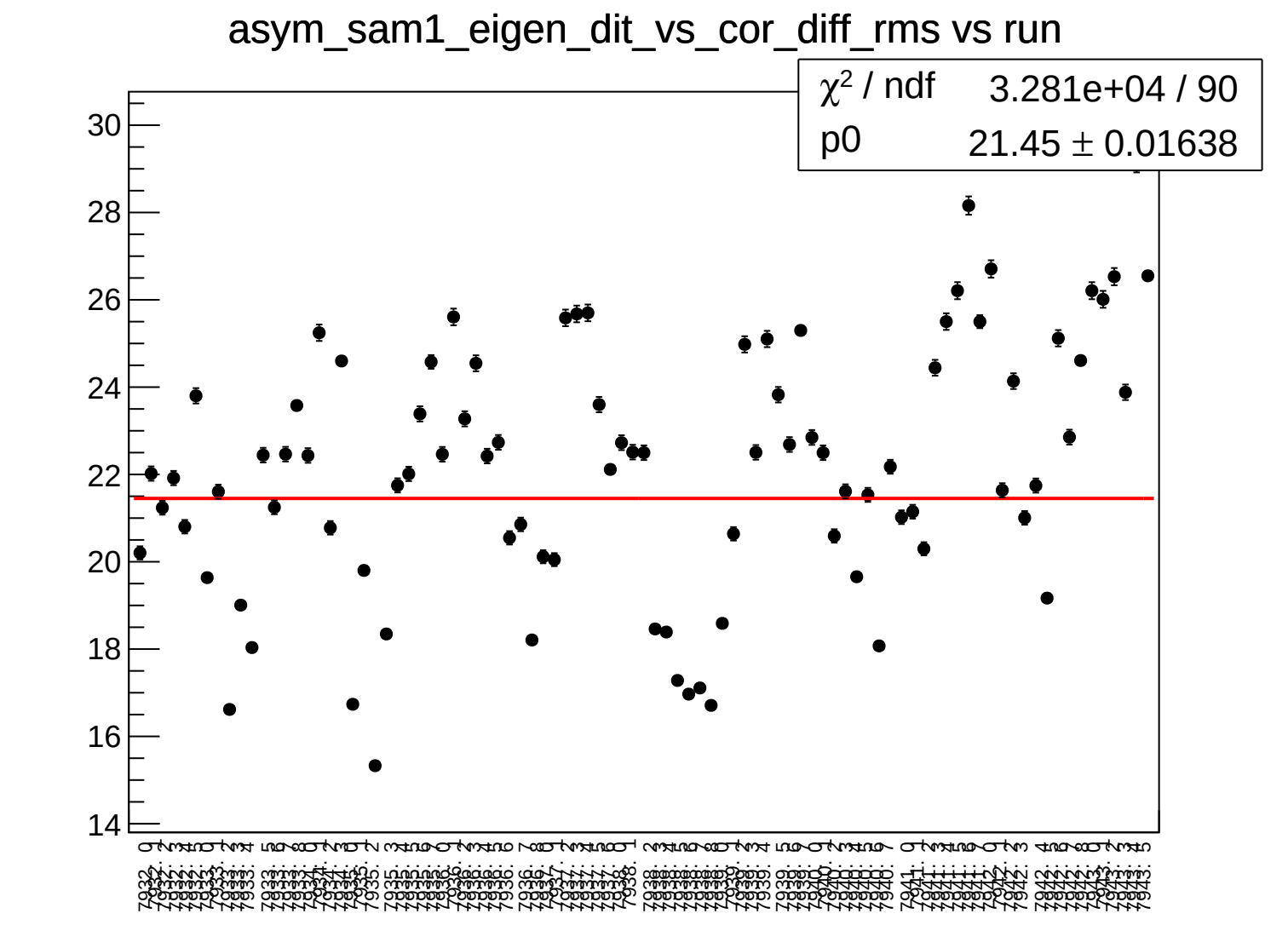

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.2 / 90
p0 4.53e−07 ± 1.737e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean −27.37
Std Dev 0
2
1
0
−1
−2
−3

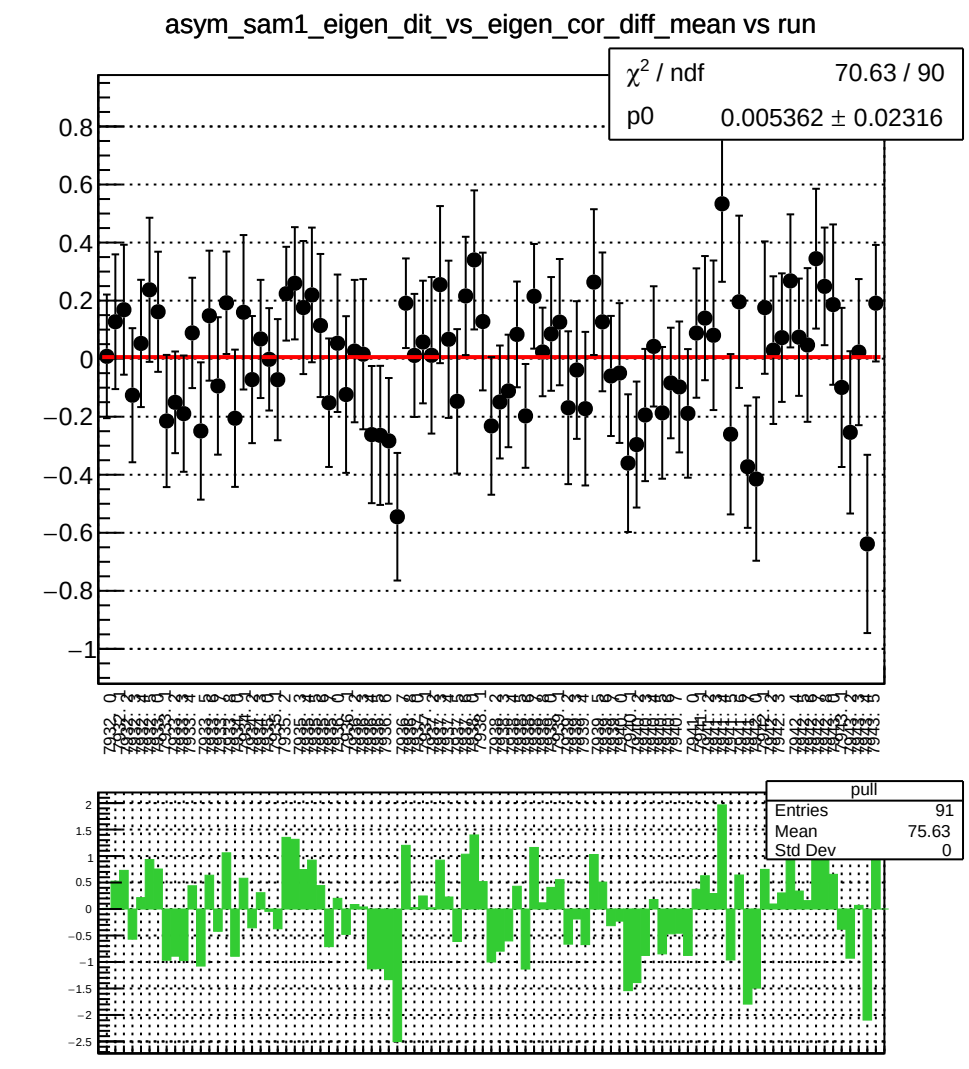

pull1D
Entries 91
Mean −0.02372
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

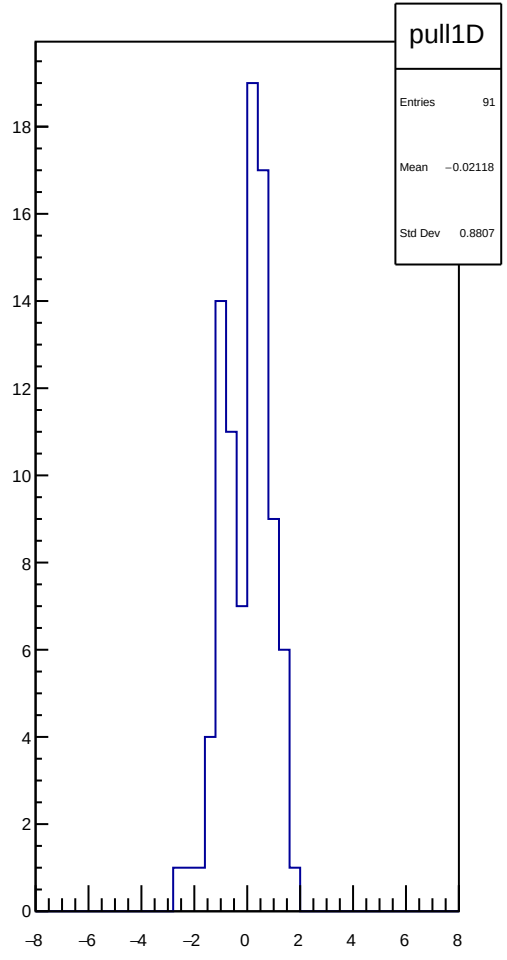

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.236e+04 / 90
p0 0.001618 ± 1.228e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

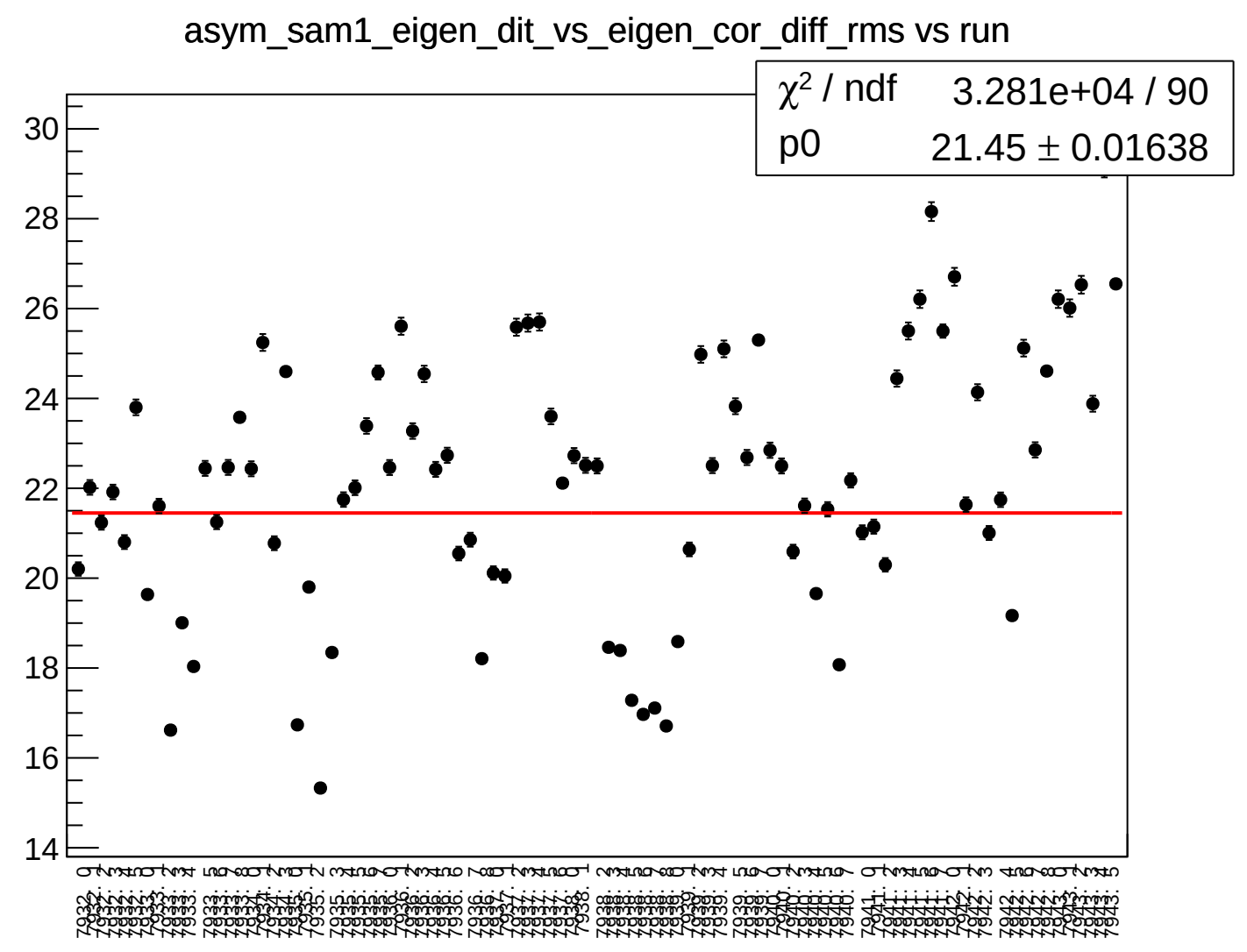

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.63 / 90
p0 0.005362 ± 0.02316
pull
Entries 91
Mean 75.63
Std Dev 0

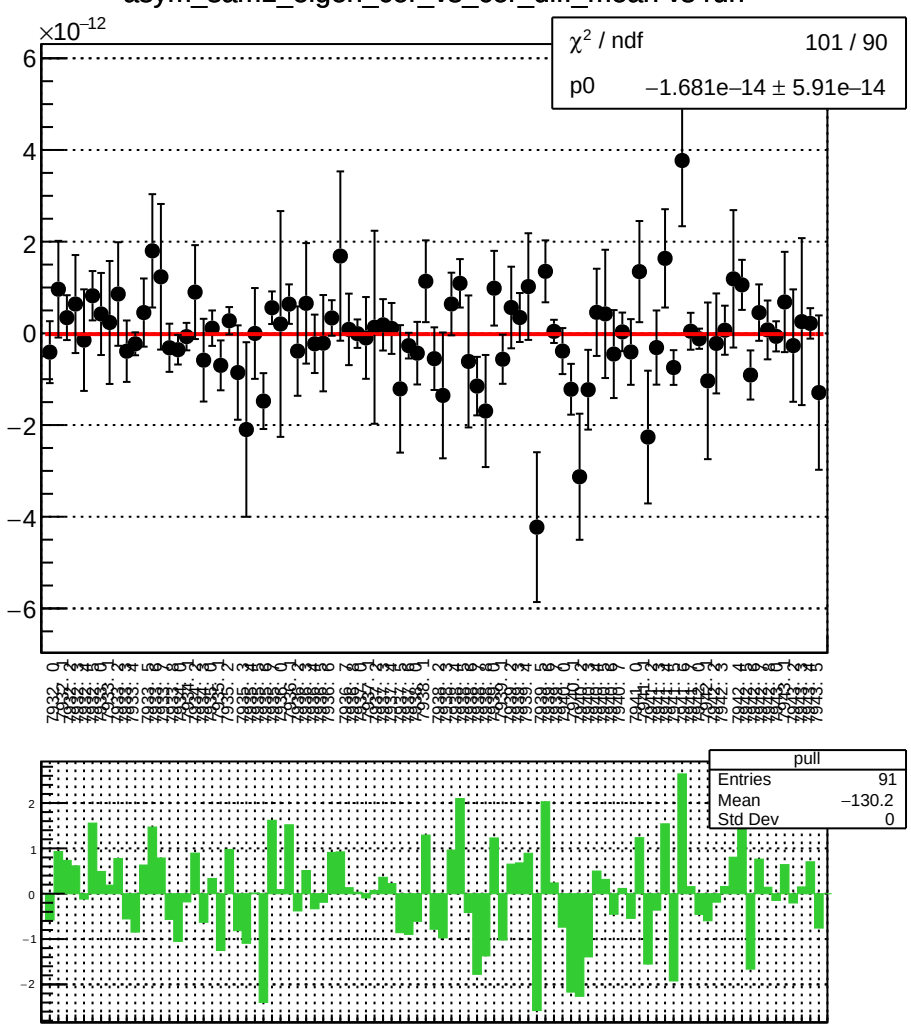

pull1D
Entries 91
Mean −0.02118
Std Dev 0.8807

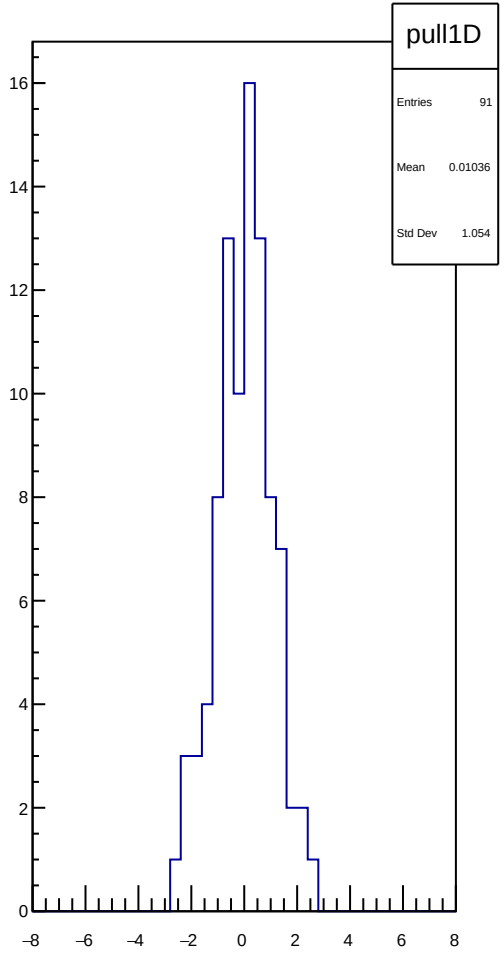

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.281e+04 / 90
p0 21.45 ± 0.01638
30
28
26
24
22
20
18
16
14

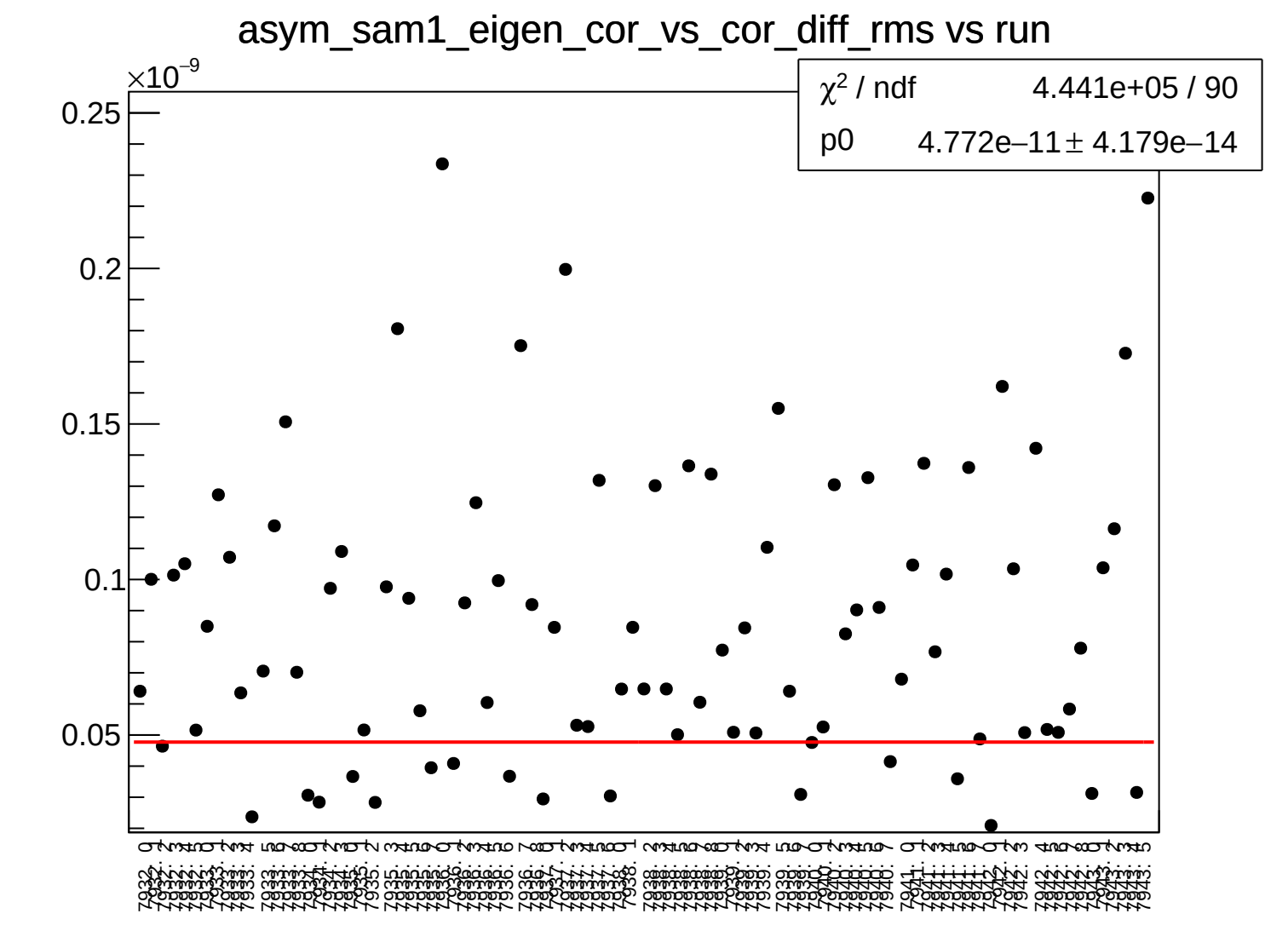

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.63 / 90
p0 0.005362 ± 0.02316
pull
Entries 91
Mean 75.63
Std Dev 0

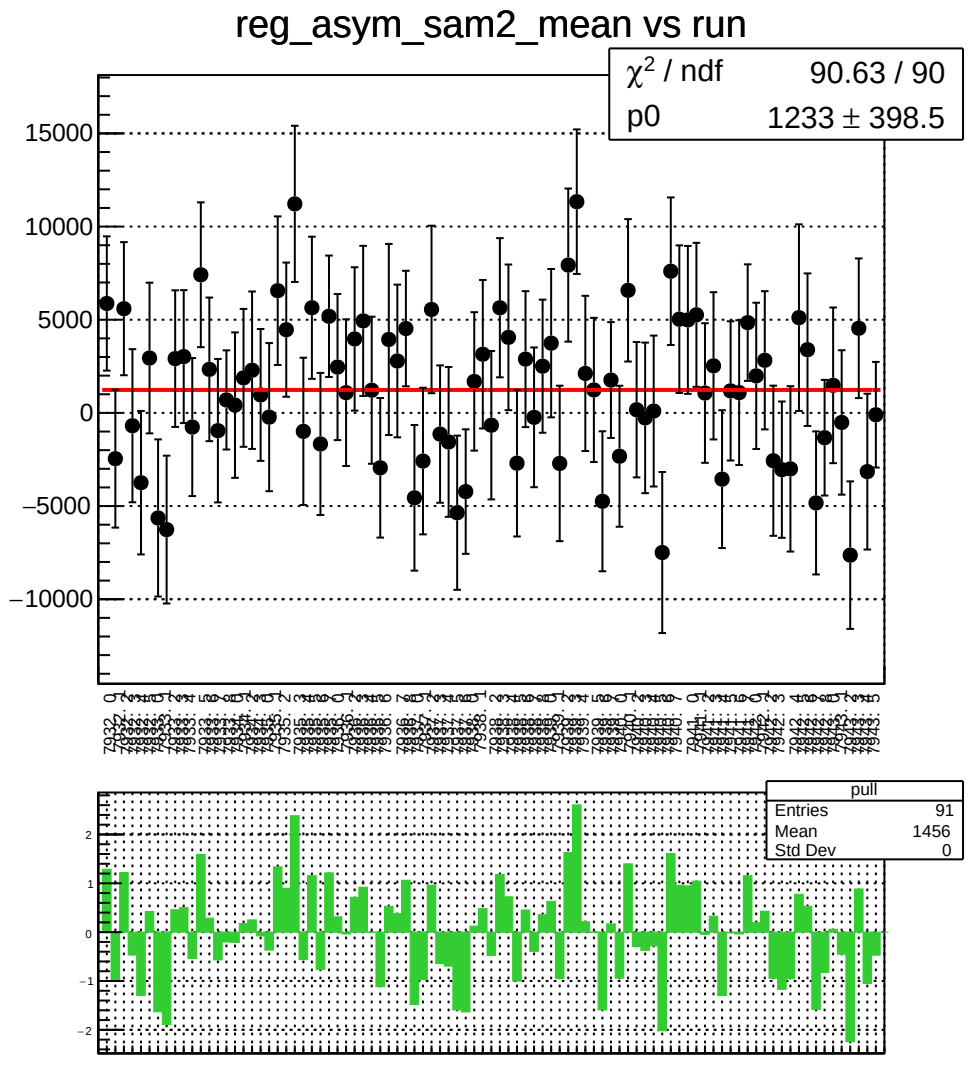

pull1D
Entries 91
Mean −0.02118
Std Dev 0.8807

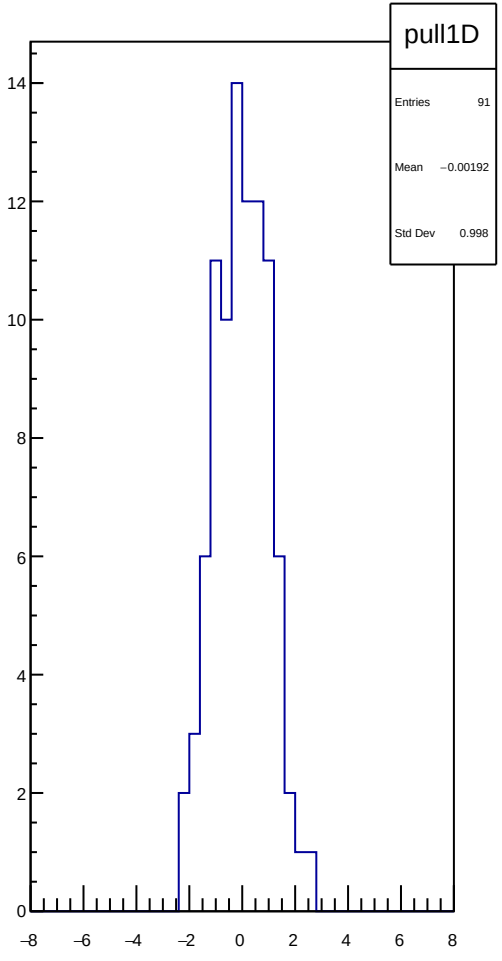

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.281e+04 / 90
p0 21.45 ± 0.01638
30
28
26
24
22
20
18
16
14

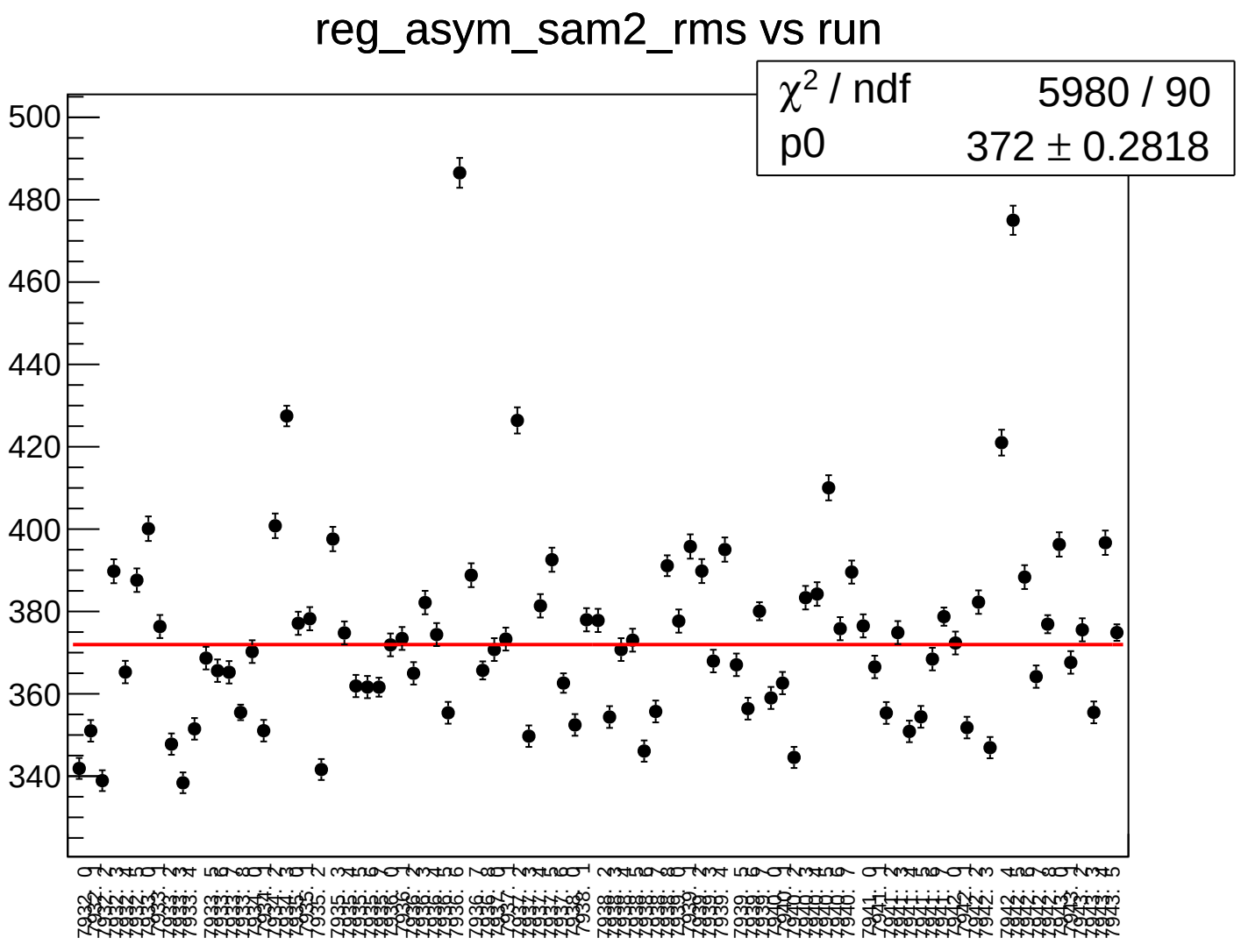

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101 / 90
p0 −1.681e−14 ± 5.91e−14
pull
Entries 91
Mean −130.2
Std Dev 0

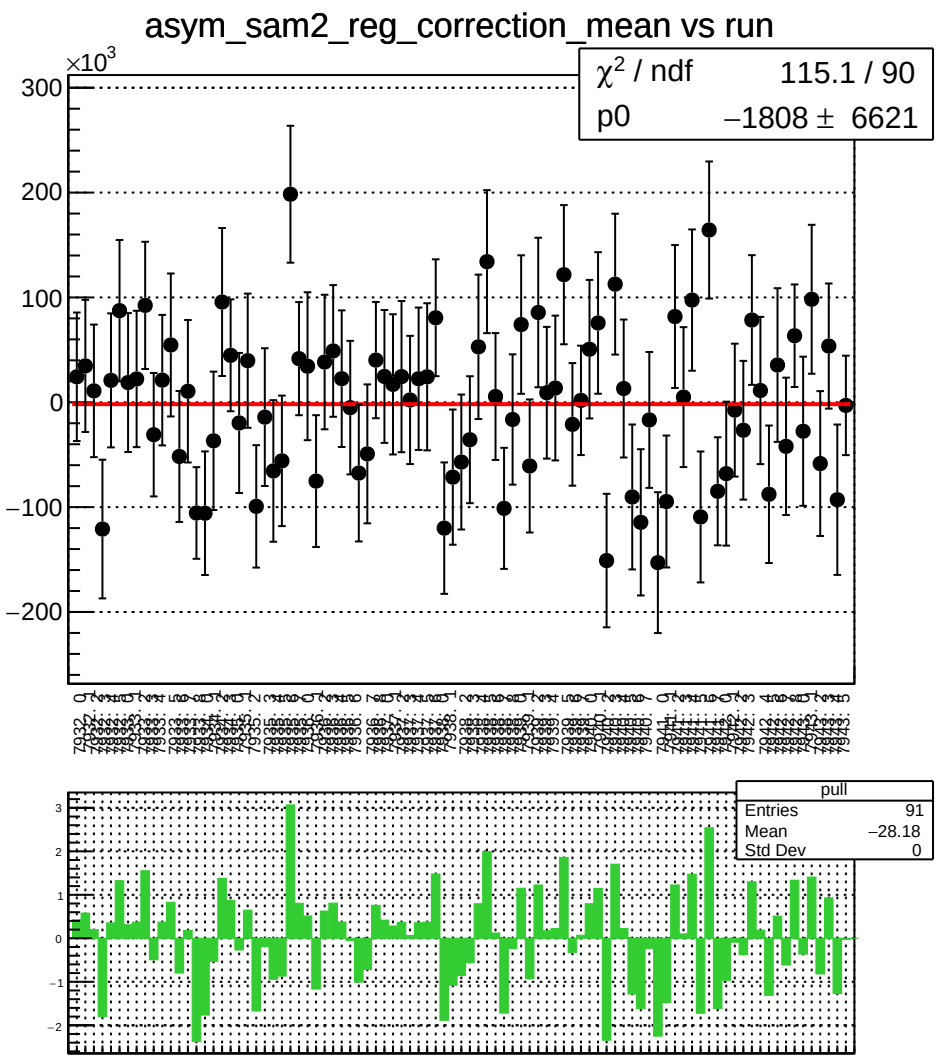

pull1D
Entries 91
Mean 0.01036
Std Dev 1.054

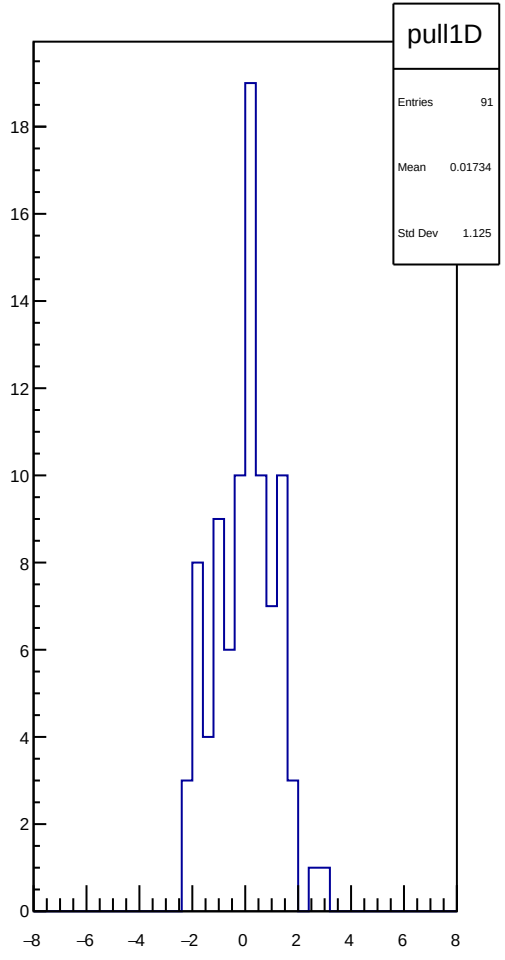

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.441e+05 / 90
p0 4.772e−11 ± 4.179e−14

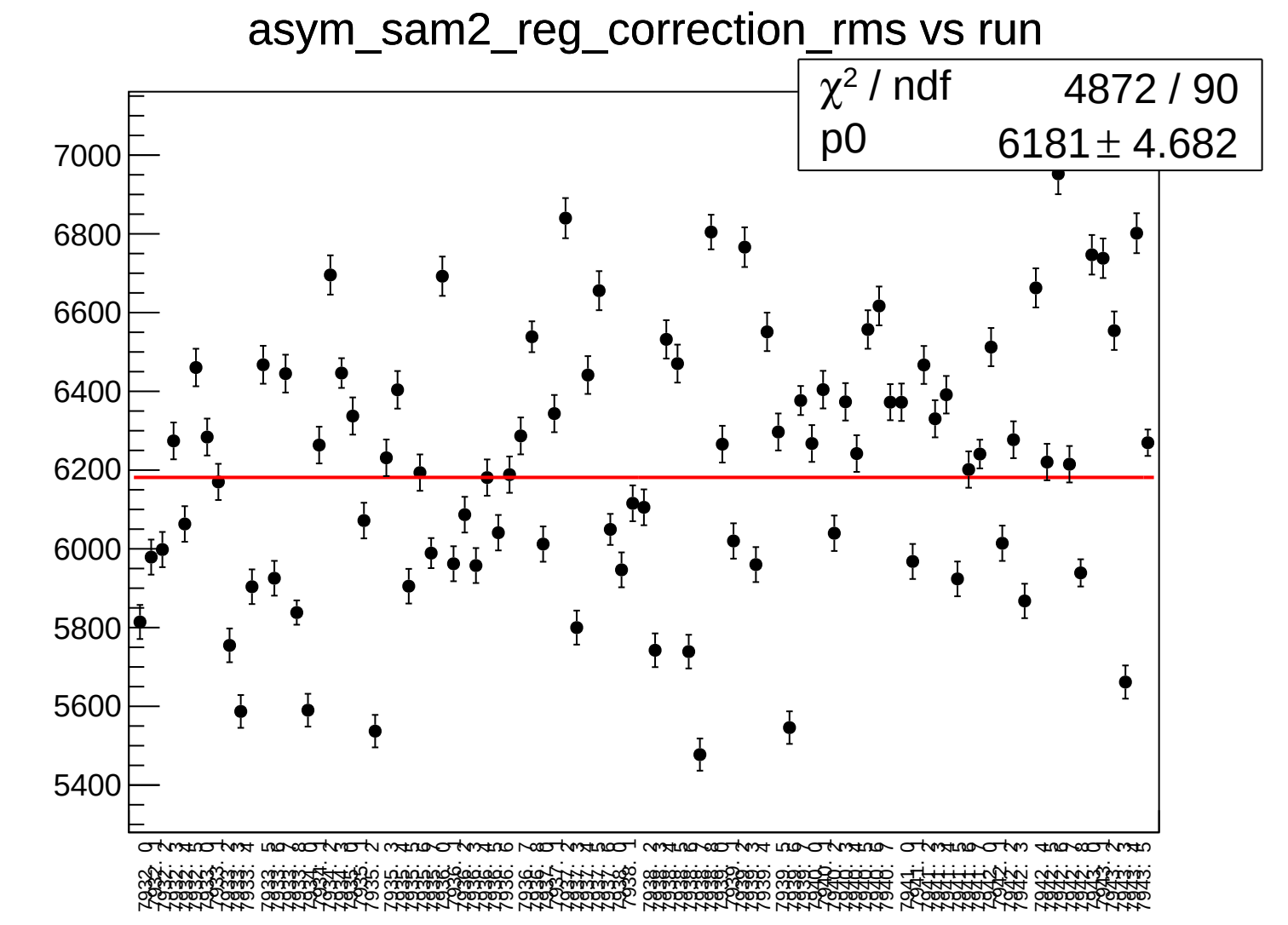

reg_asym_sam2_mean vs run
χ² / ndf 90.63 / 90
p0 1233 ± 398.5
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 1456
Std Dev 0
2
1
0
−1
−2

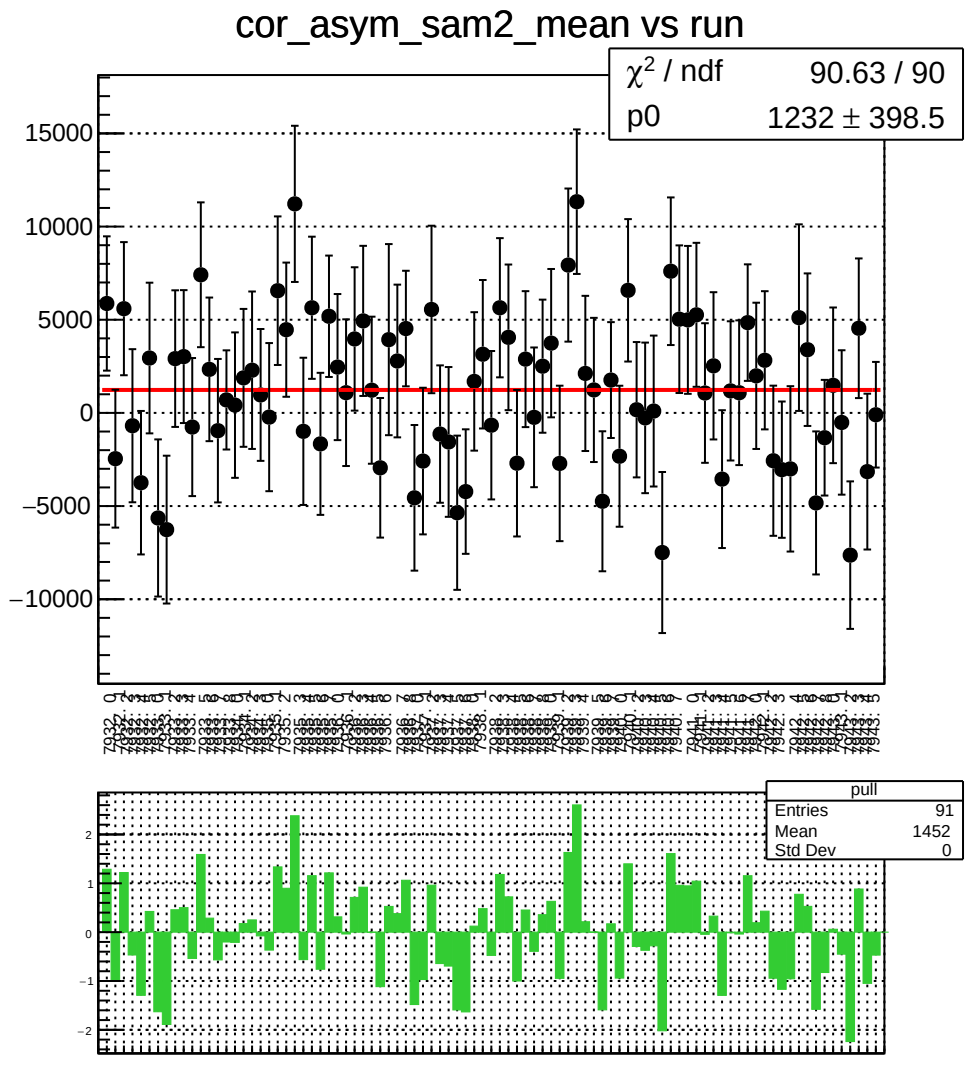

pull1D
Entries 91
Mean −0.00192
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

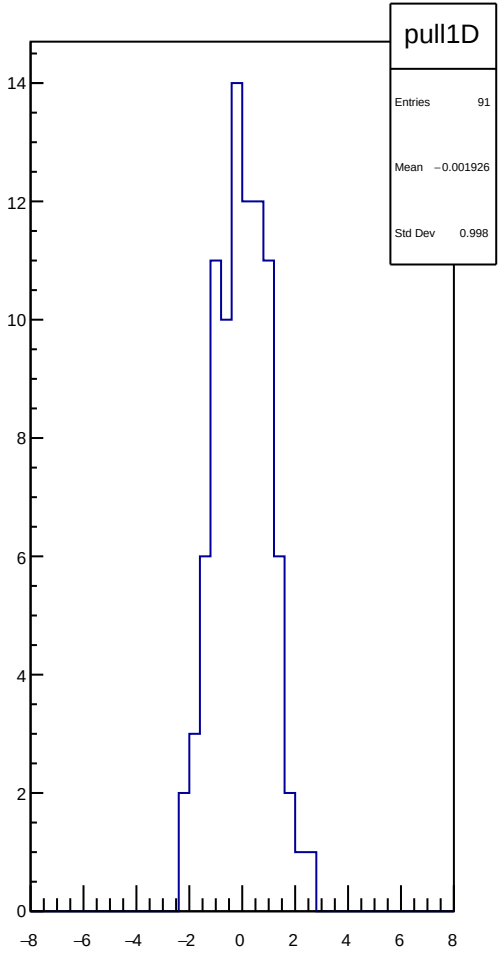

reg_asym_sam2_rms vs run
χ² / ndf 5980 / 90
p0 372 ± 0.2818
500
480
460
440
420
400
380
360
340

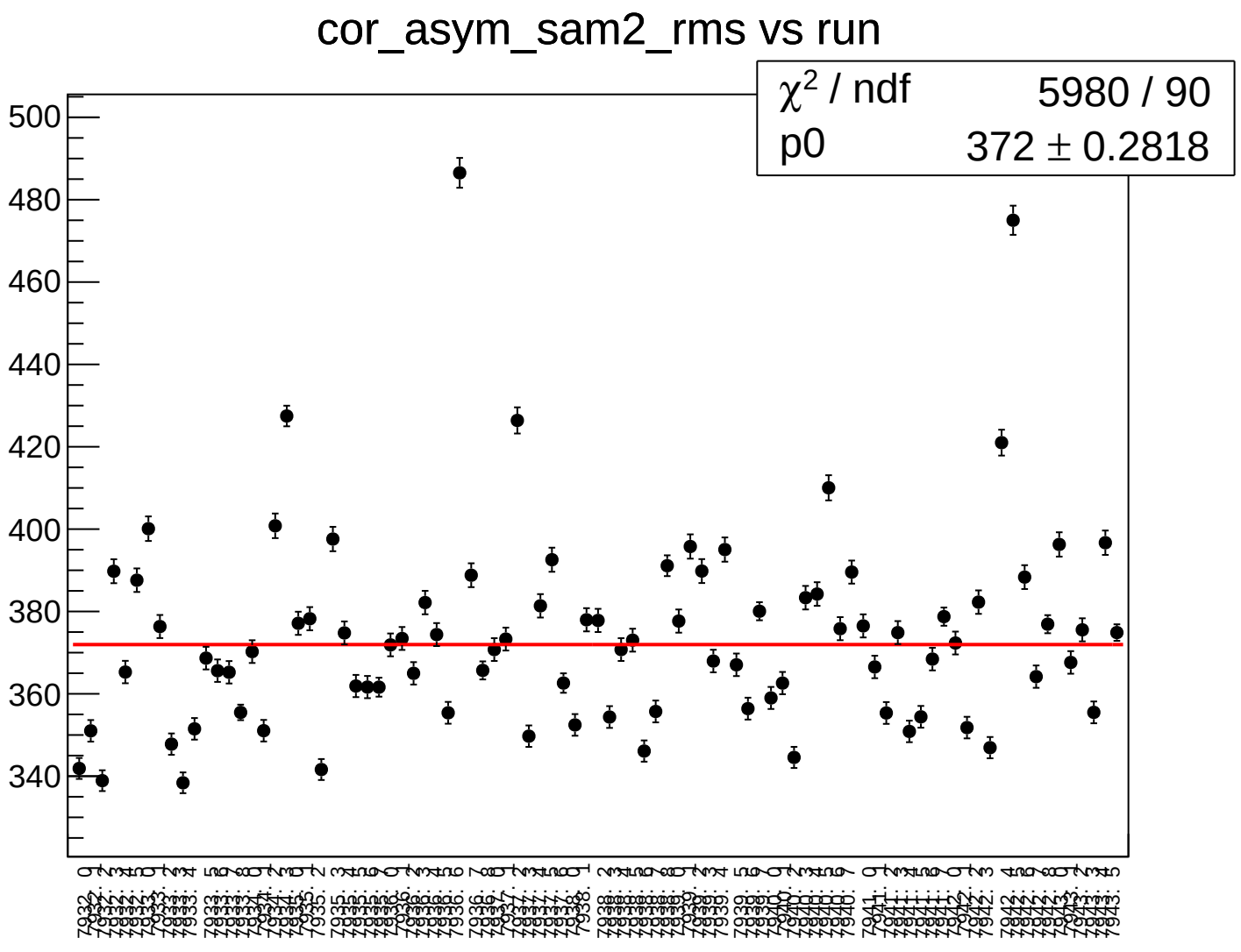

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 115.1 / 90
p0 −1808 ± 6621
pull
Entries 91
Mean −28.18
Std Dev 0

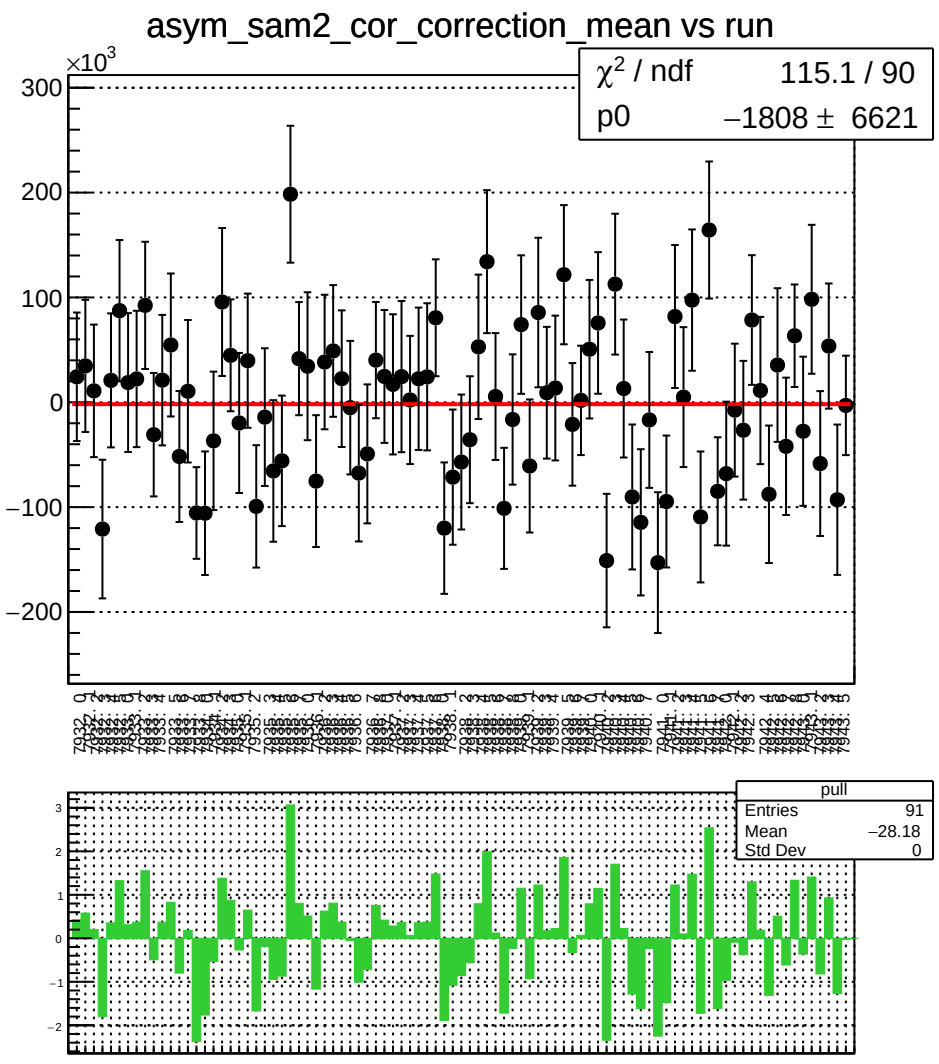

pull1D
Entries 91
Mean 0.01734
Std Dev 1.125

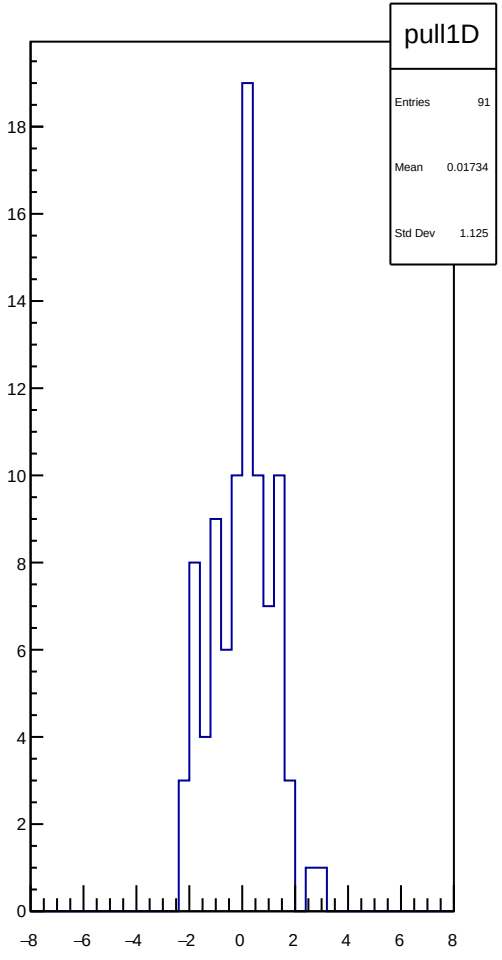

asym_sam2_reg_correction_rms vs run
χ² / ndf 4872 / 90
p0 6181 ± 4.682
7000
6800
6600
6400
6200
6000
5800
5600
5400

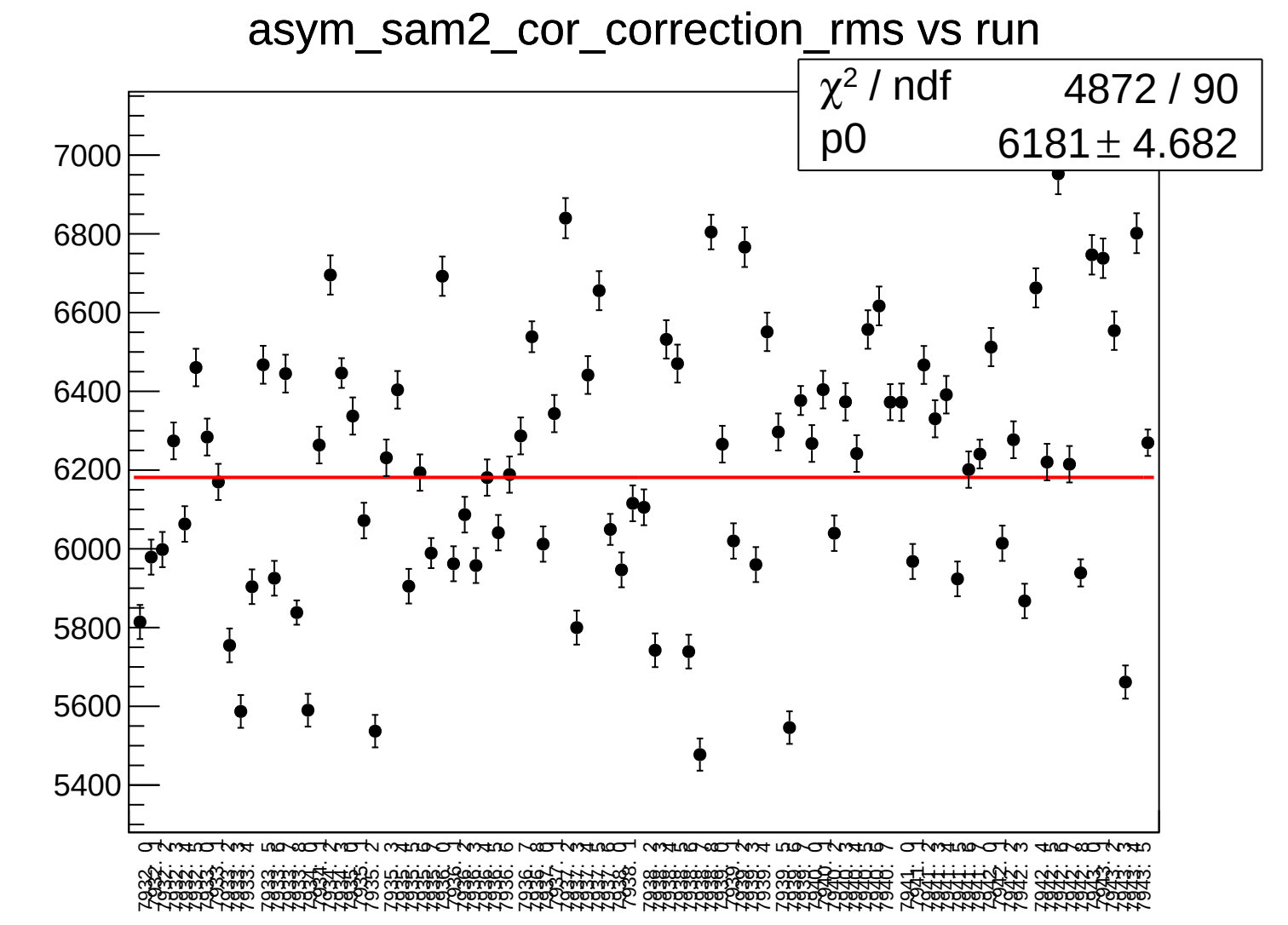

cor_asym_sam2_mean vs run
χ² / ndf 90.63 / 90
p0 1232 ± 398.5
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 1452
Std Dev 0
2
1
0
−1
−2

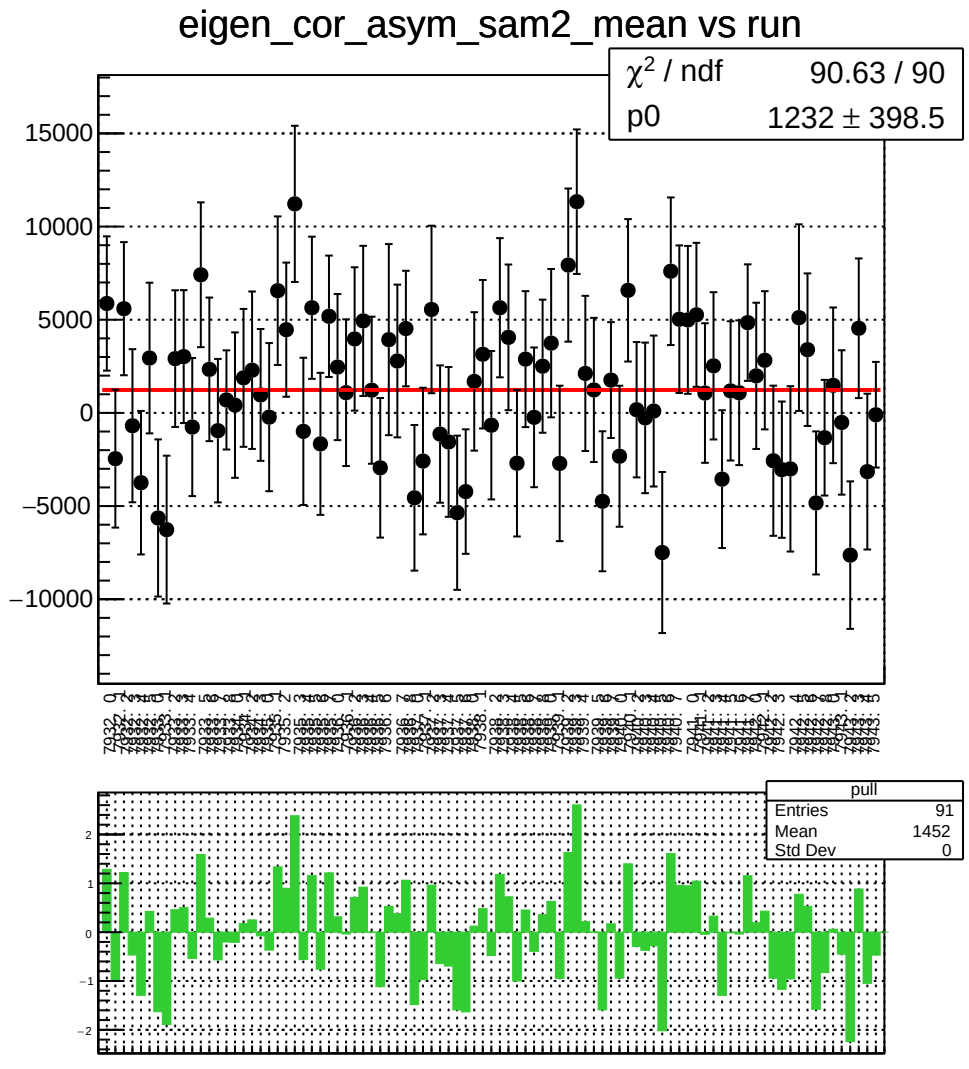

pull1D
Entries 91
Mean −0.001926
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

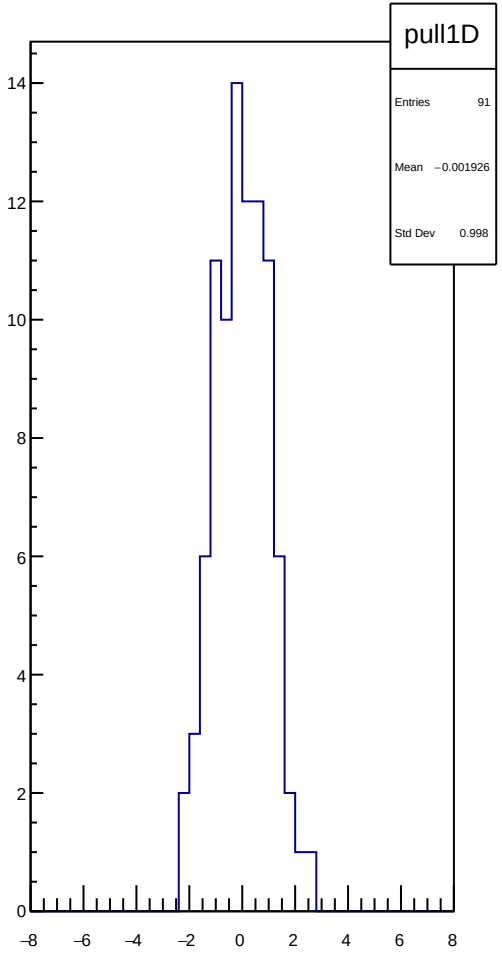

cor_asym_sam2_rms vs run
χ² / ndf 5980 / 90
p0 372 ± 0.2818
500
480
460
440
420
400
380
360
340

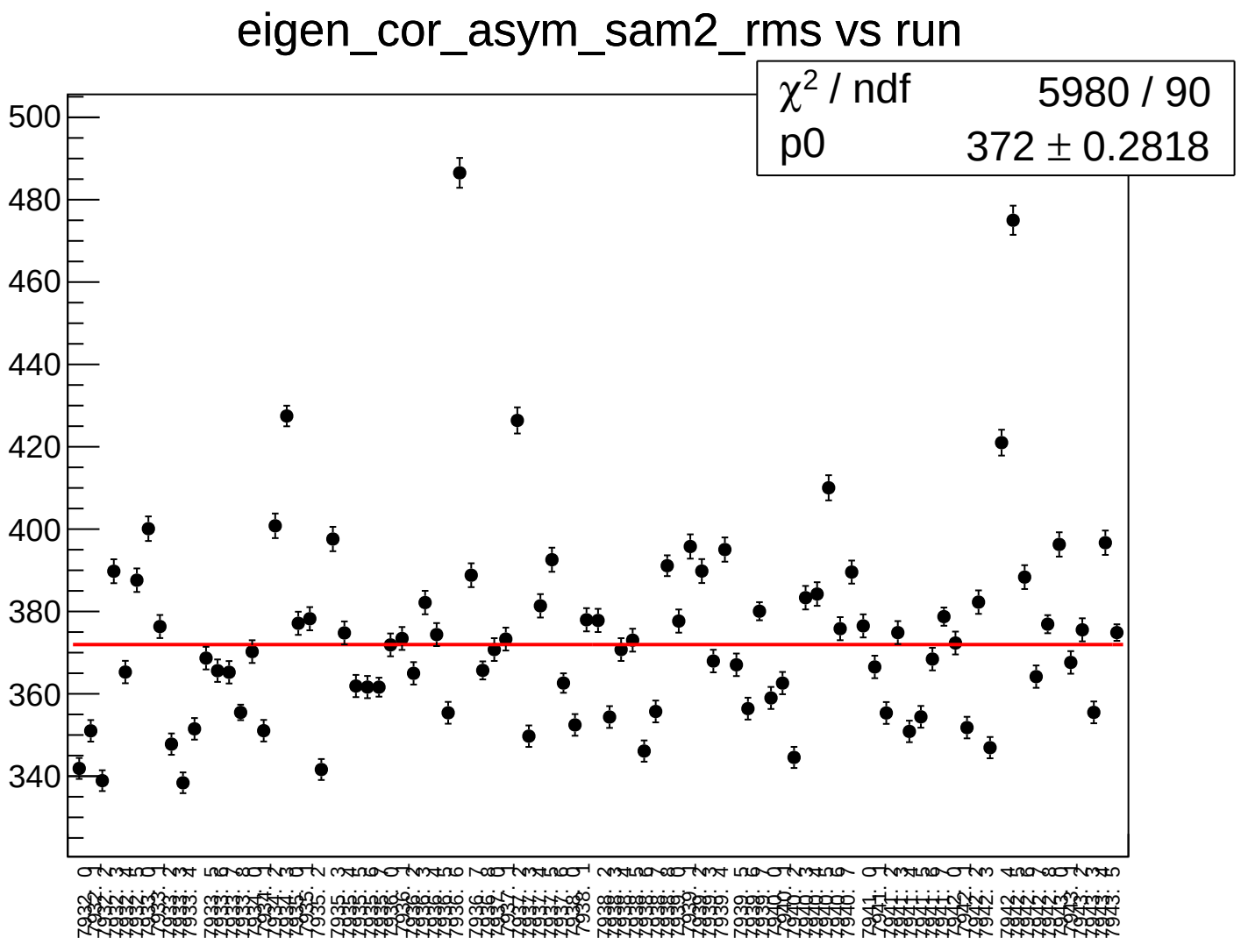

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 115.1 / 90
p0 −1808 ± 6621
300
200
100
0
−100
−200
pull
Entries 91
Mean −28.18
Std Dev 0
3
2
1
0
−1
−2

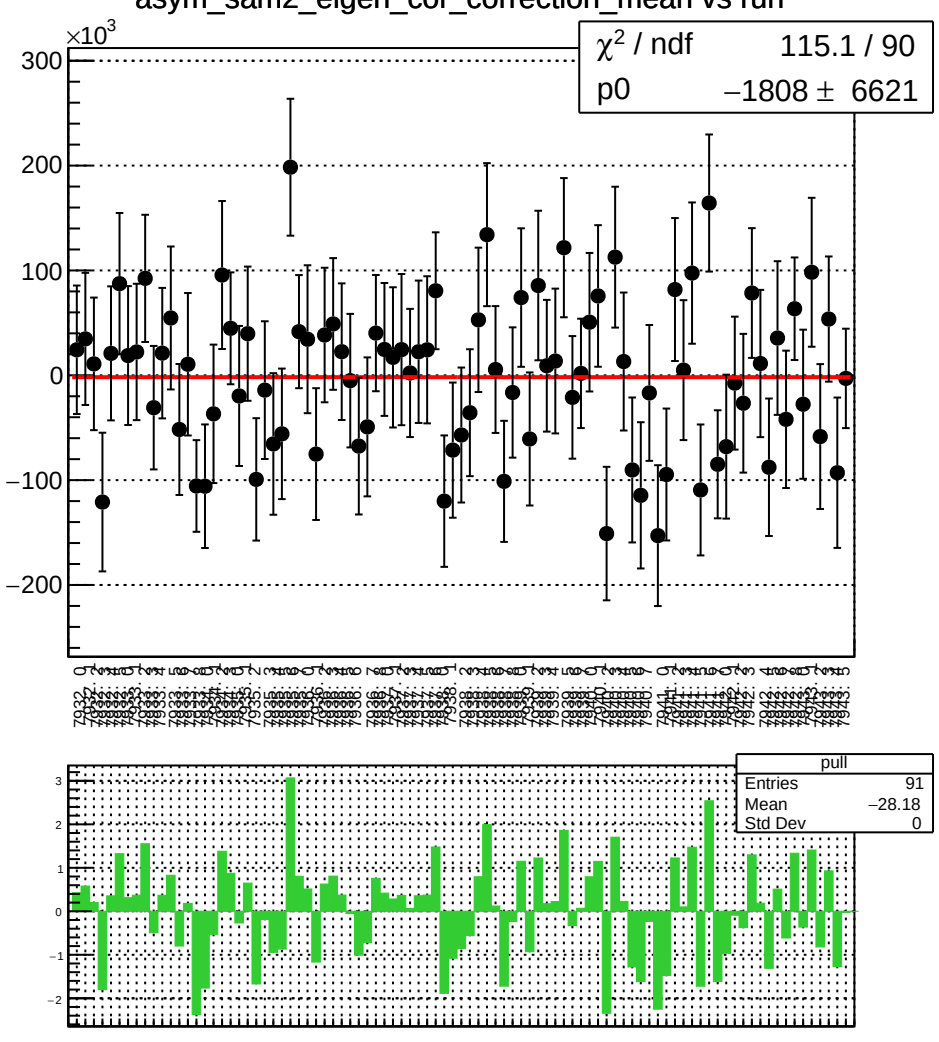

pull1D
Entries 91
Mean 0.01734
Std Dev 1.125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

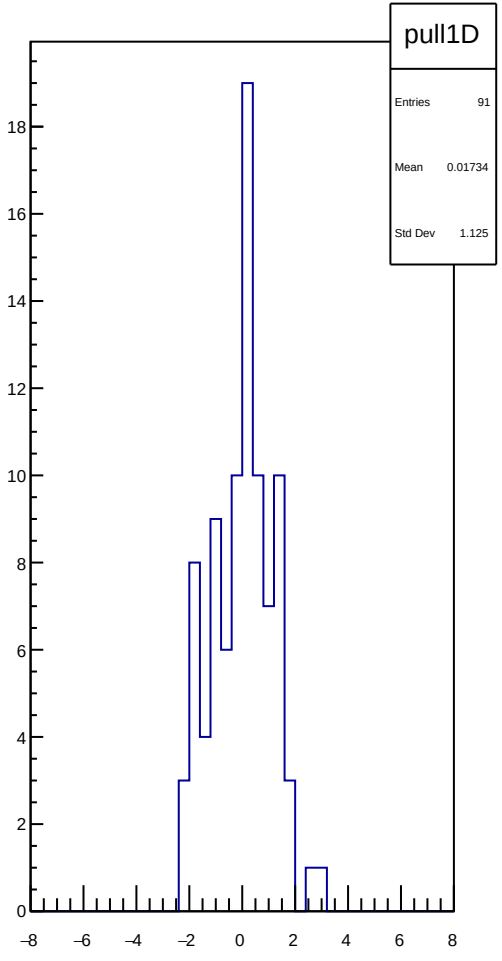

asym_sam2_cor_correction_rms vs run
χ² / ndf 4872 / 90
p0 6181 ± 4.682
7000
6800
6600
6400
6200
6000
5800
5600
5400

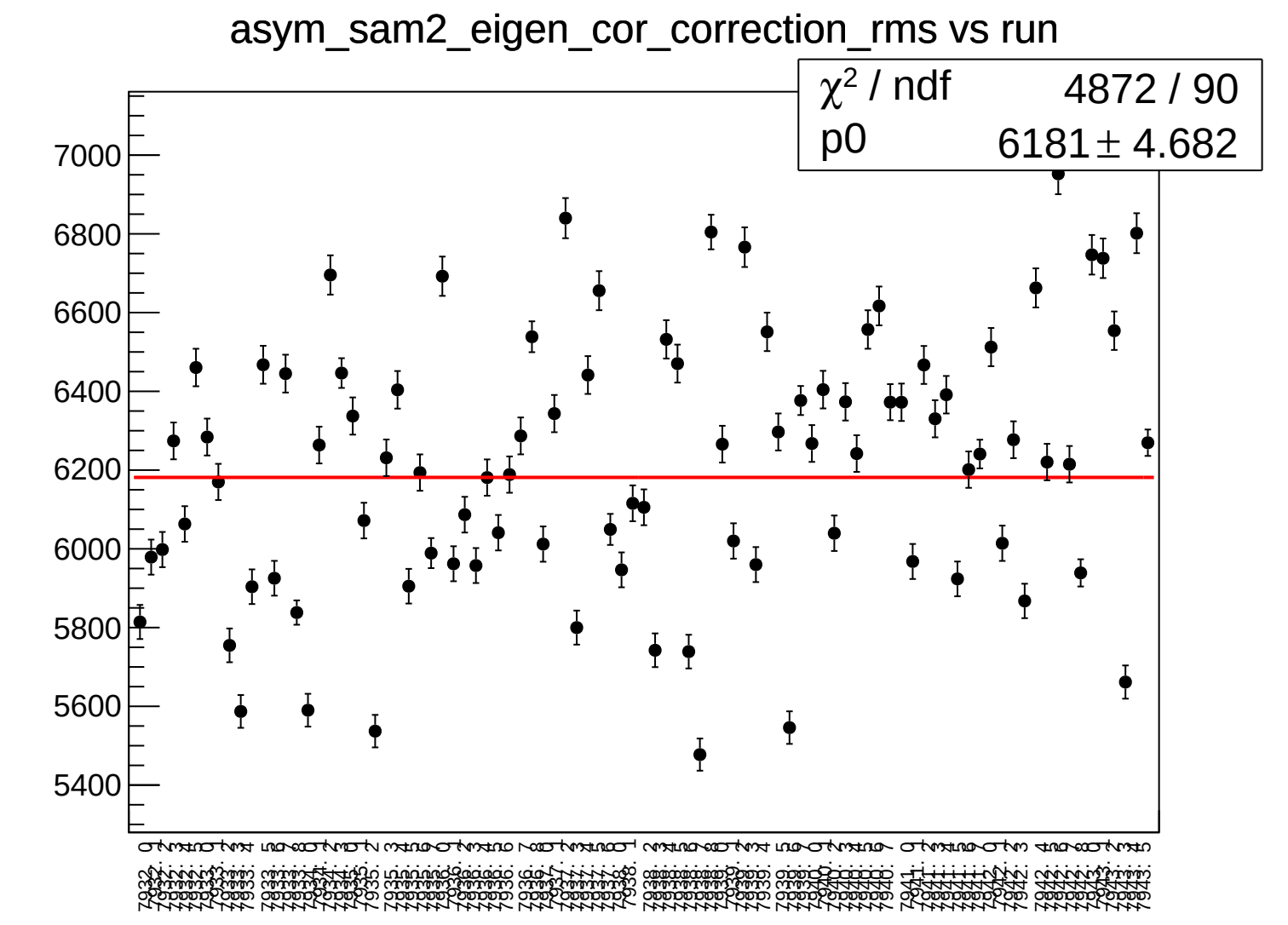

eigen_cor_asym_sam2_mean vs run
χ² / ndf 90.63 / 90
p0 1232 ± 398.5
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 1452
Std Dev 0
2
1
0
−1
−2

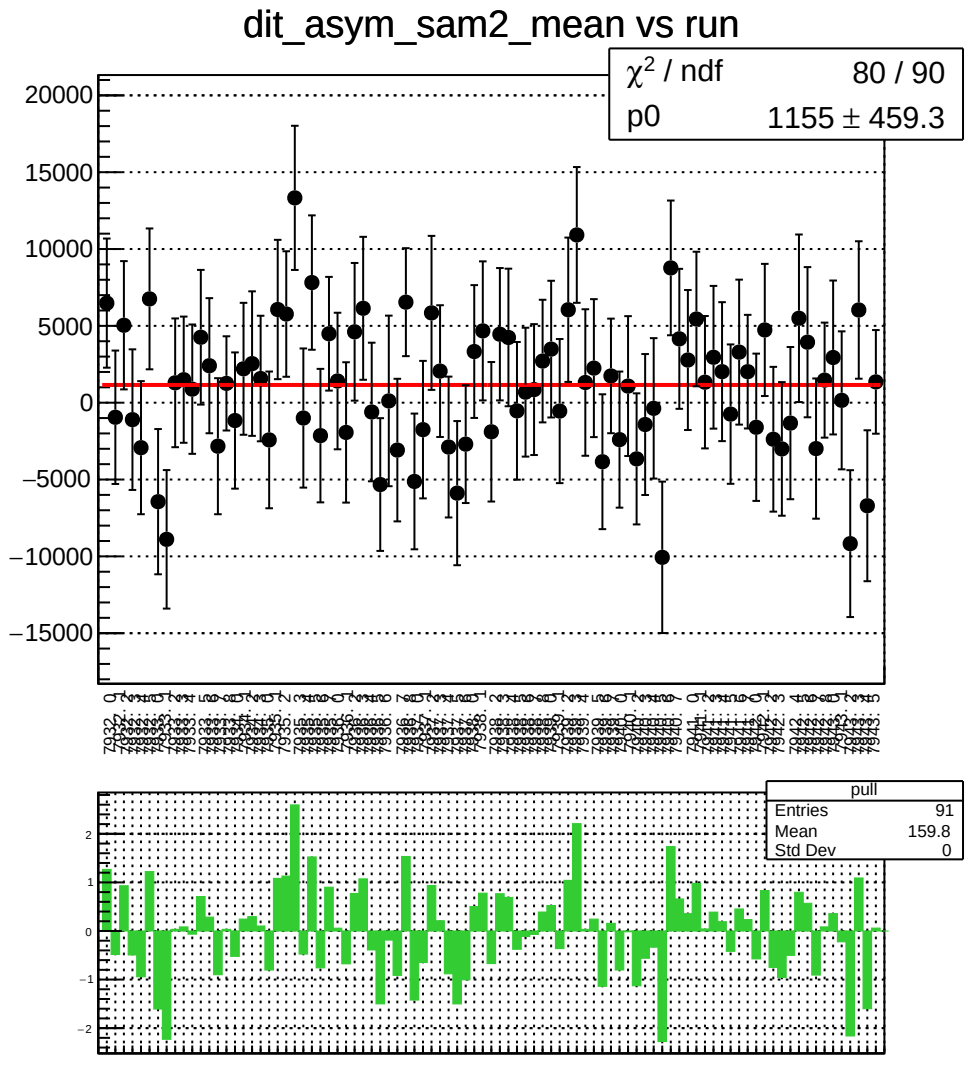

pull1D
Entries 91
Mean −0.001926
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

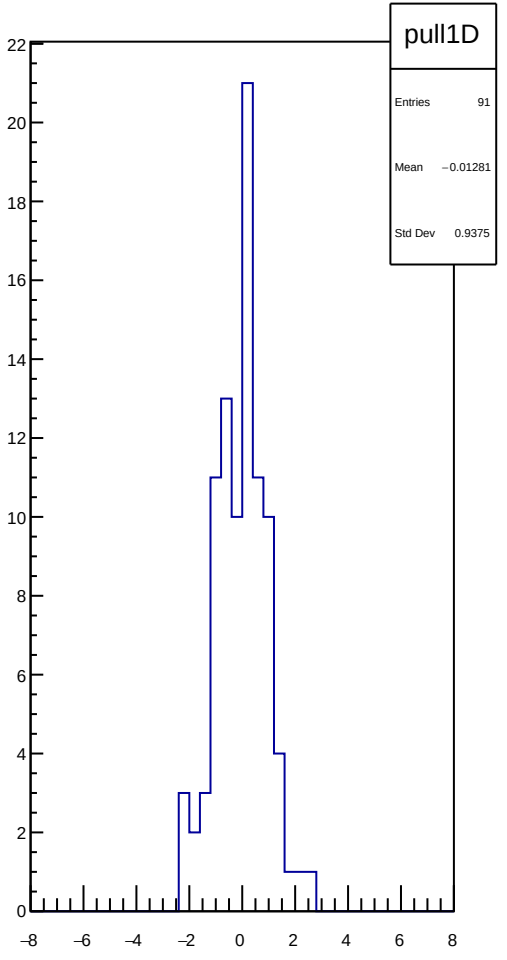

eigen_cor_asym_sam2_rms vs run
χ^2 / ndf 5980 / 90
p0 372 ± 0.2818
500
480
460
440
420
400
380
360
340

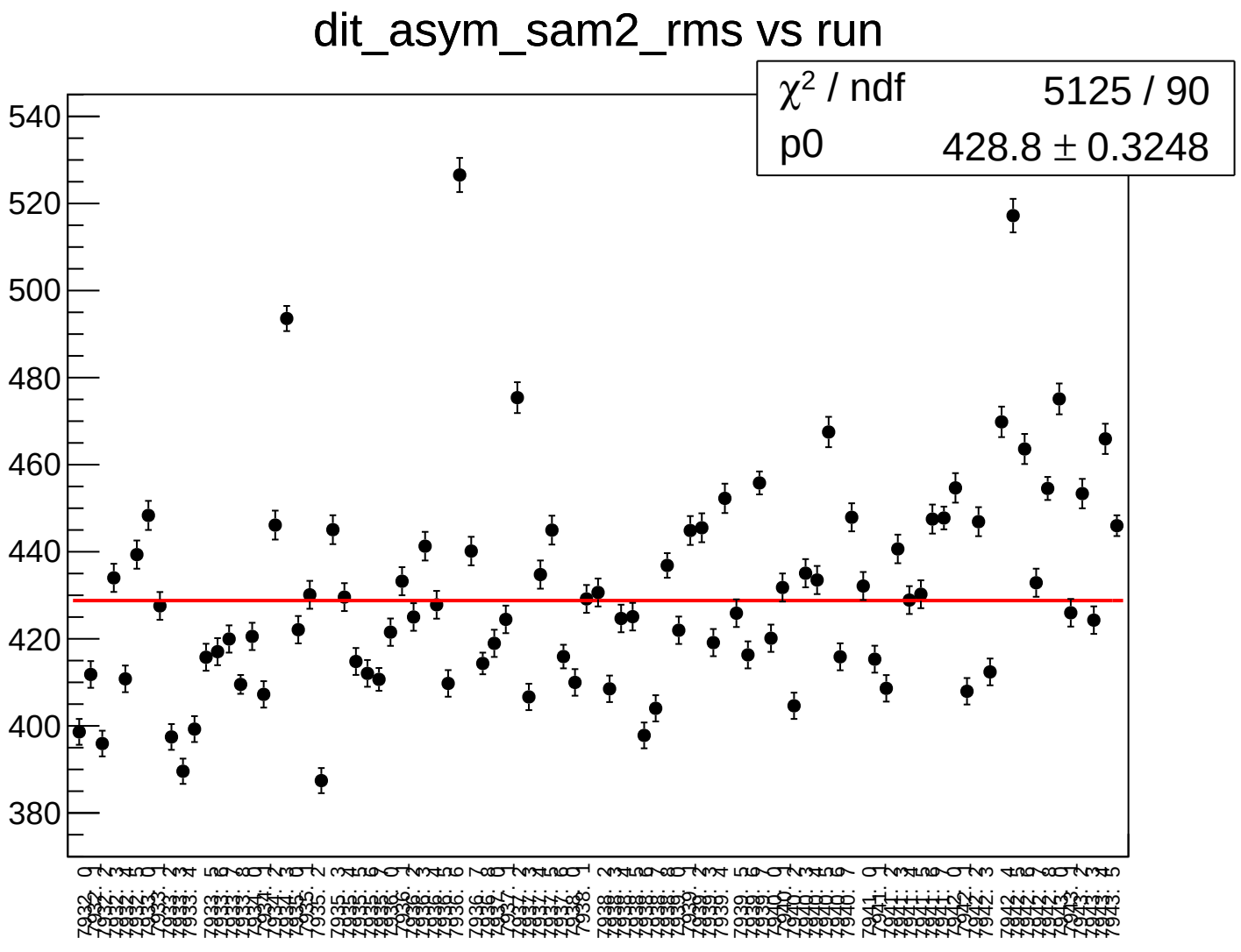

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 115.1 / 90
p0 −1808 ± 6621
pull
Entries 91
Mean −28.18
Std Dev 0

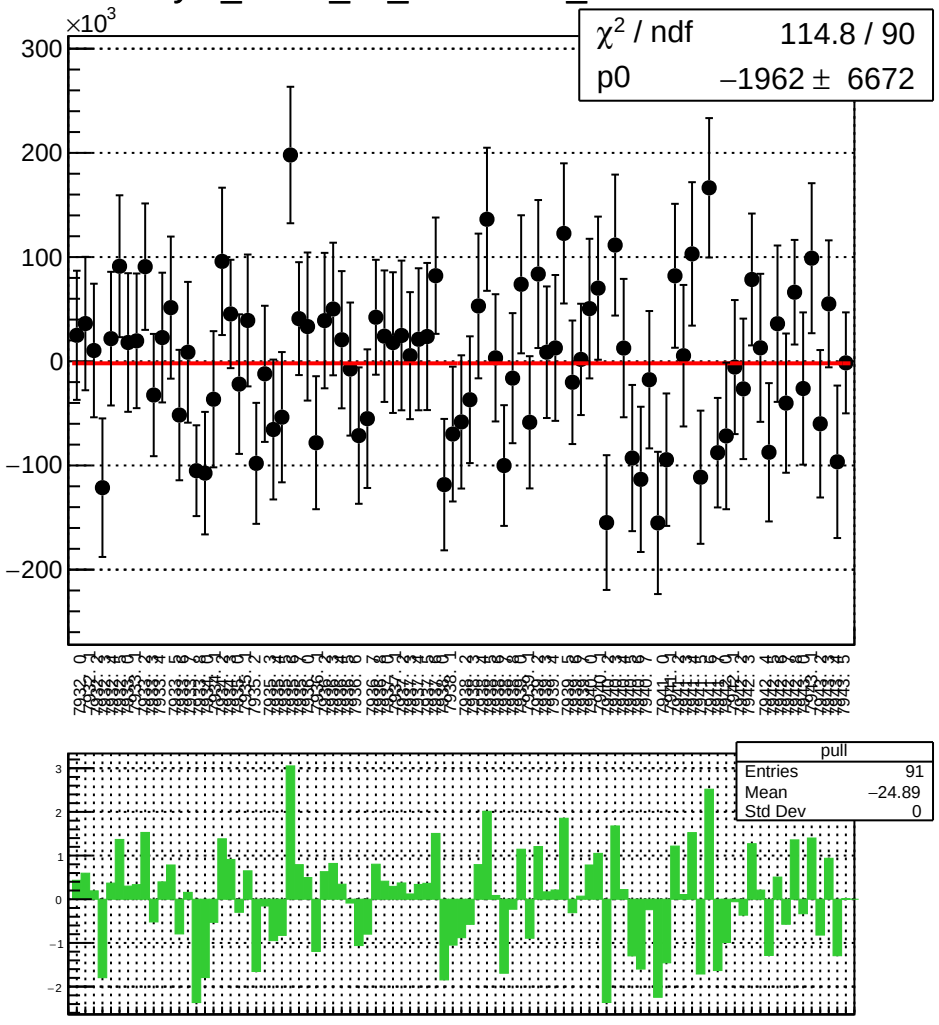

pull1D
Entries 91
Mean 0.01734
Std Dev 1.125

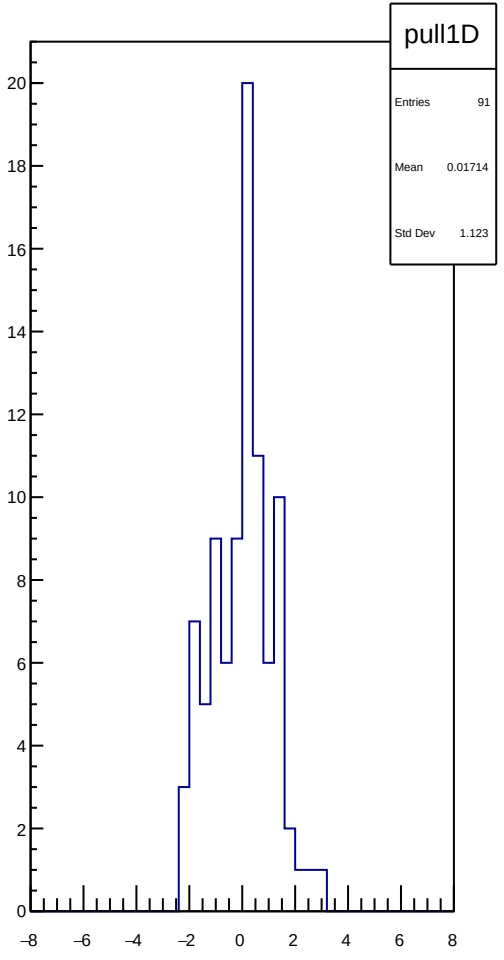

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 4872 / 90
p0 6181 ± 4.682
7000
6800
6600
6400
6200
6000
5800
5600
5400

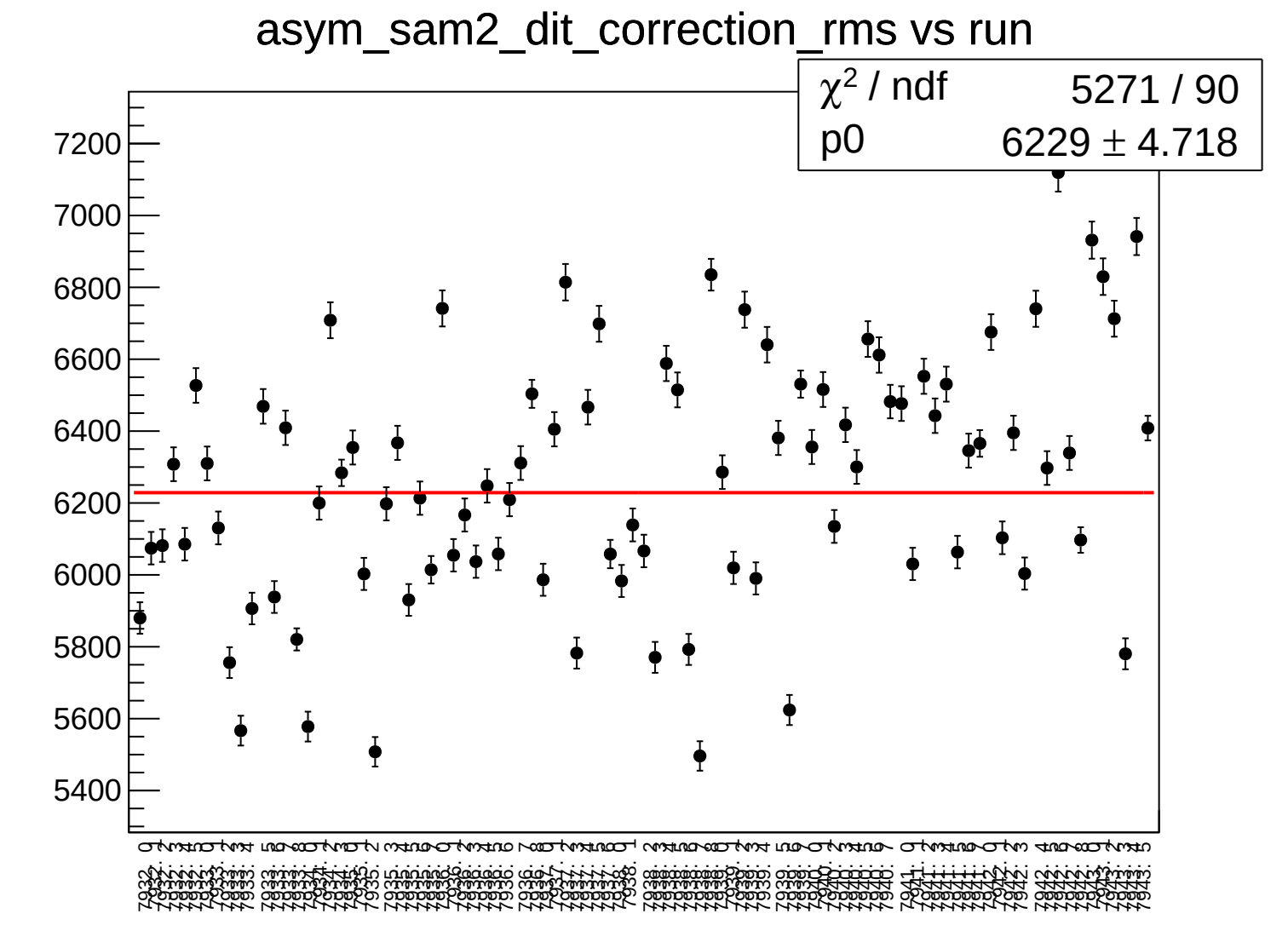

dit_asym_sam2_mean vs run
χ² / ndf 80 / 90
p0 1155 ± 459.3
pull
Entries 91
Mean 159.8
Std Dev 0

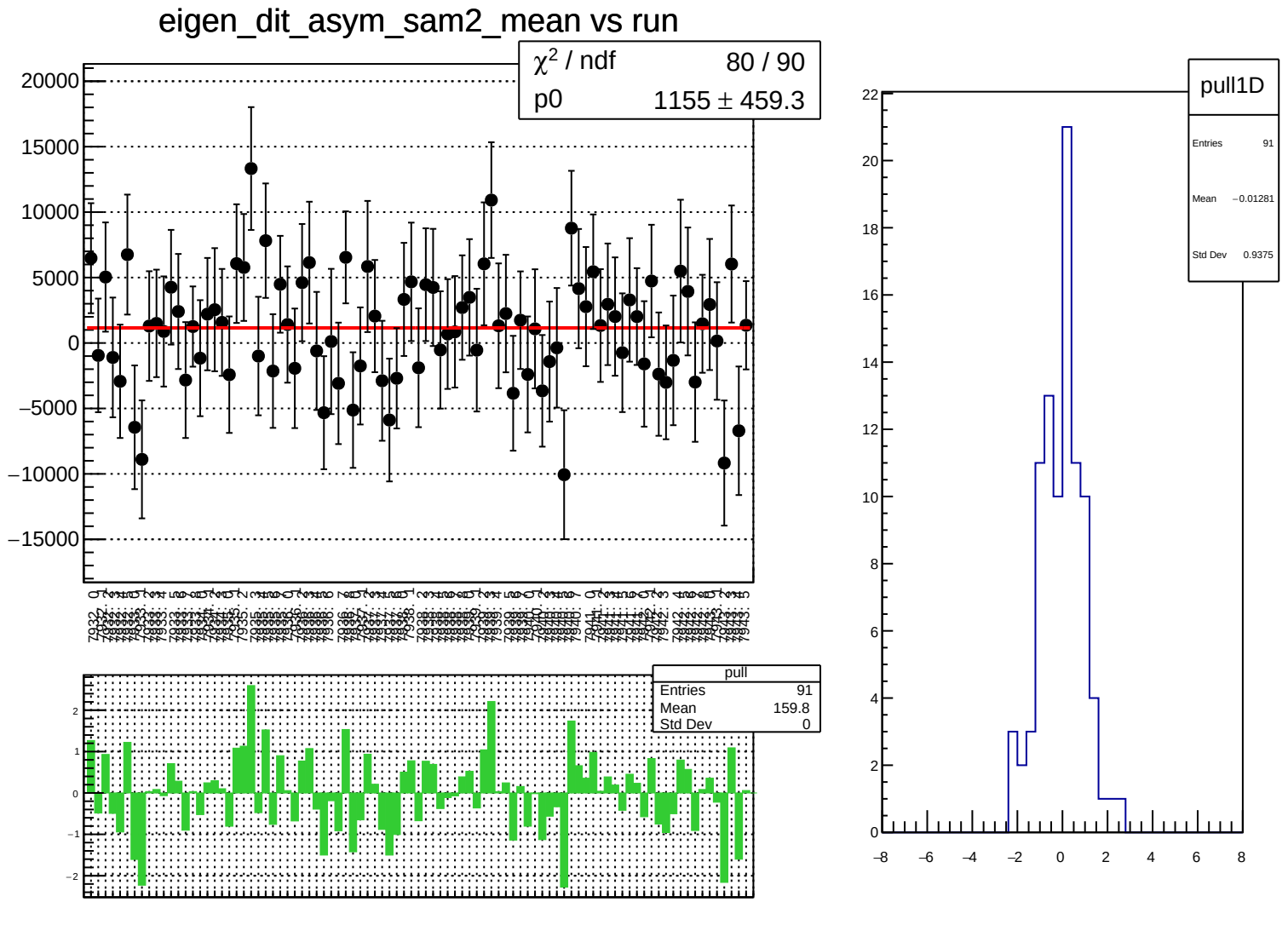

pull1D
Entries 91
Mean −0.01281
Std Dev 0.9375

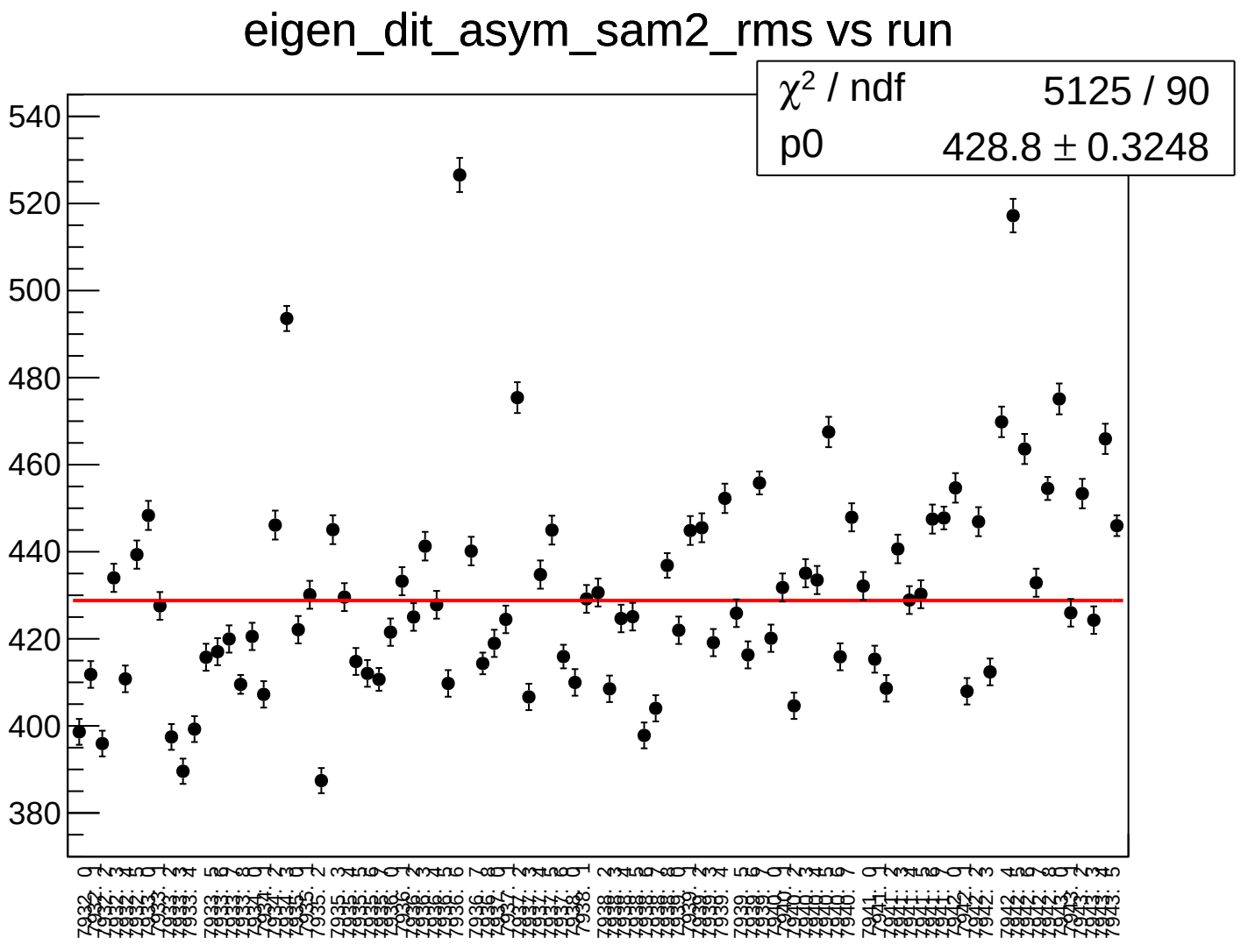

dit_asym_sam2_rms vs run
χ² / ndf 5125 / 90
p0 428.8 ± 0.3248
540
520
500
480
460
440
420
400
380

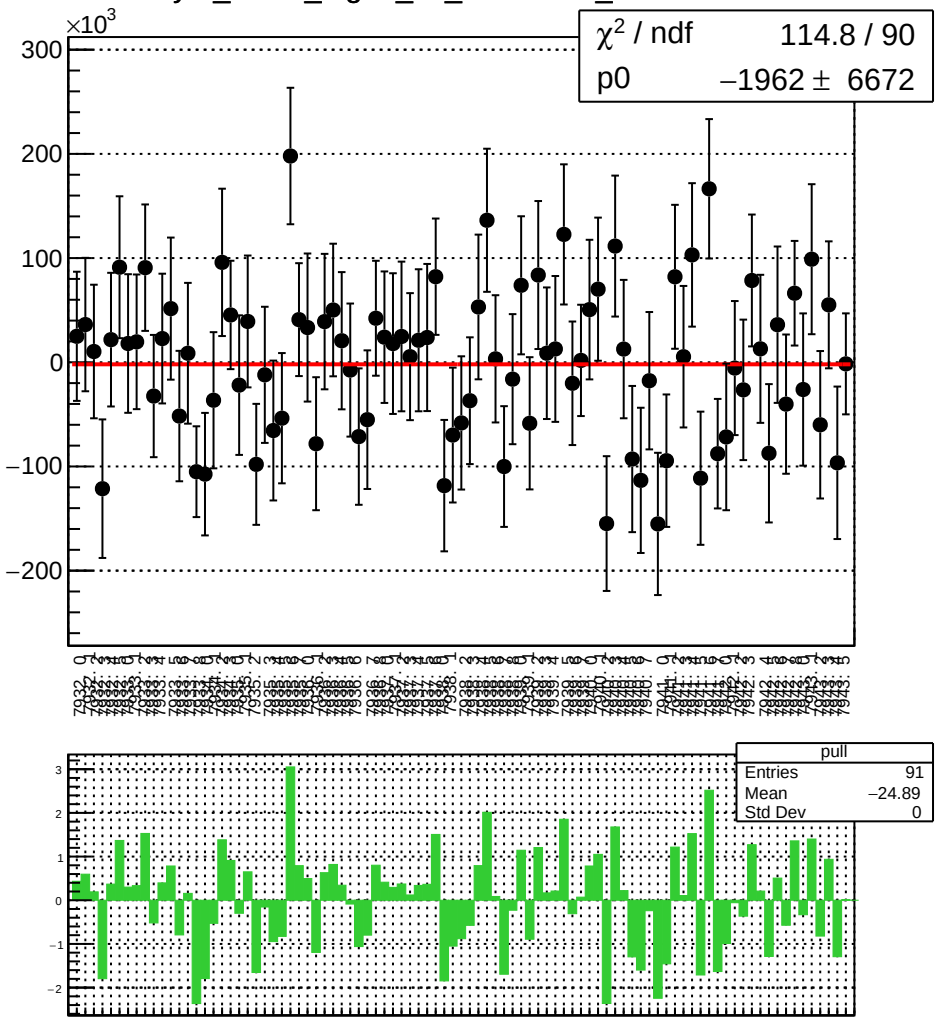

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 114.8 / 90
p0 −1962 ± 6672
pull
Entries 91
Mean −24.89
Std Dev 0

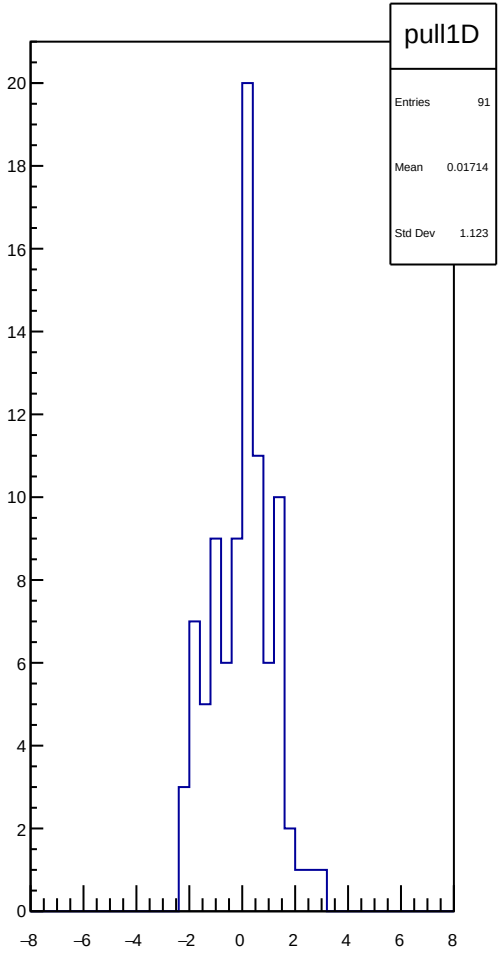

pull1D
Entries 91
Mean 0.01714
Std Dev 1.123

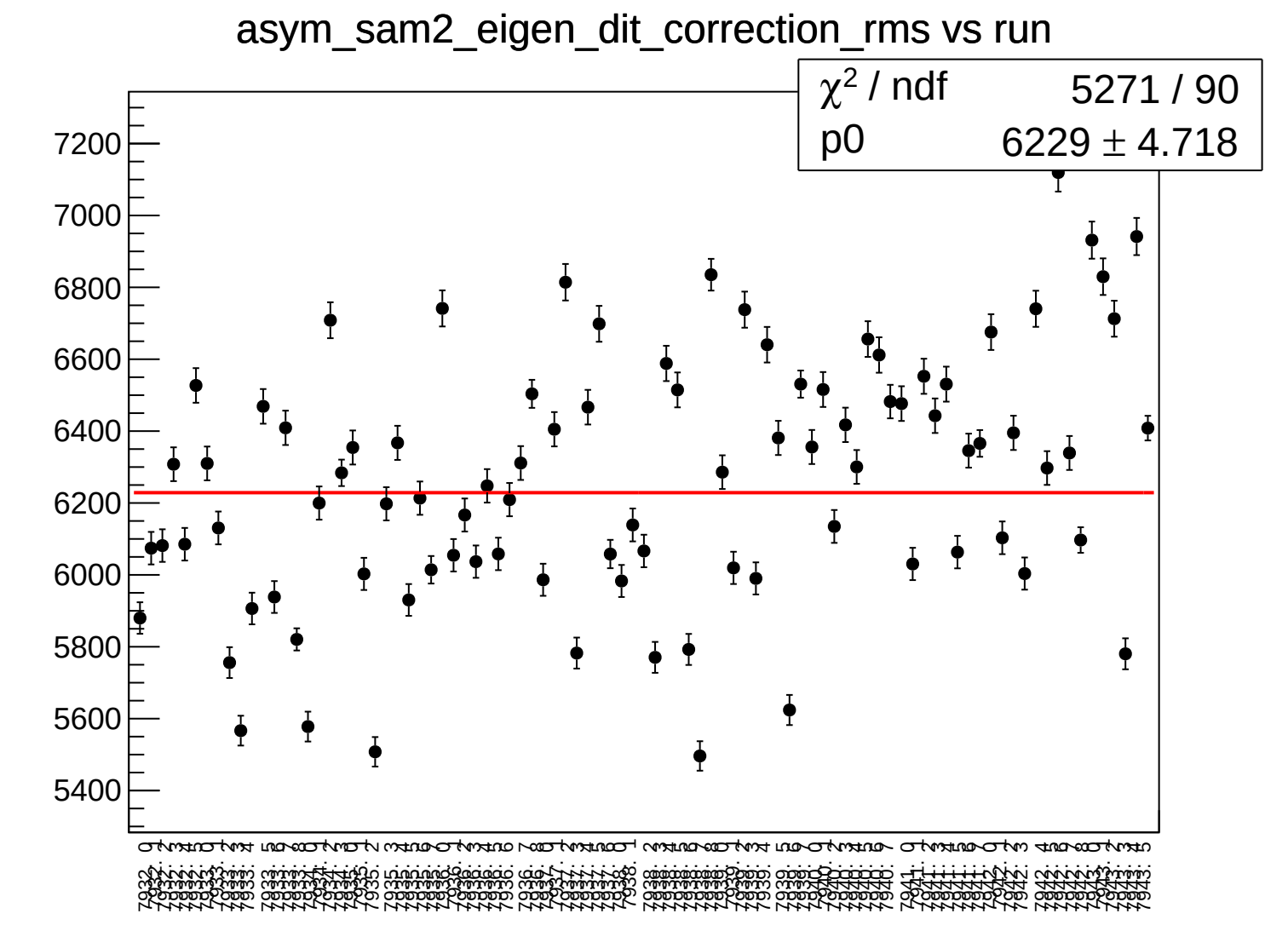

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 5271 / 90
p0 6229 ± 4.718
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

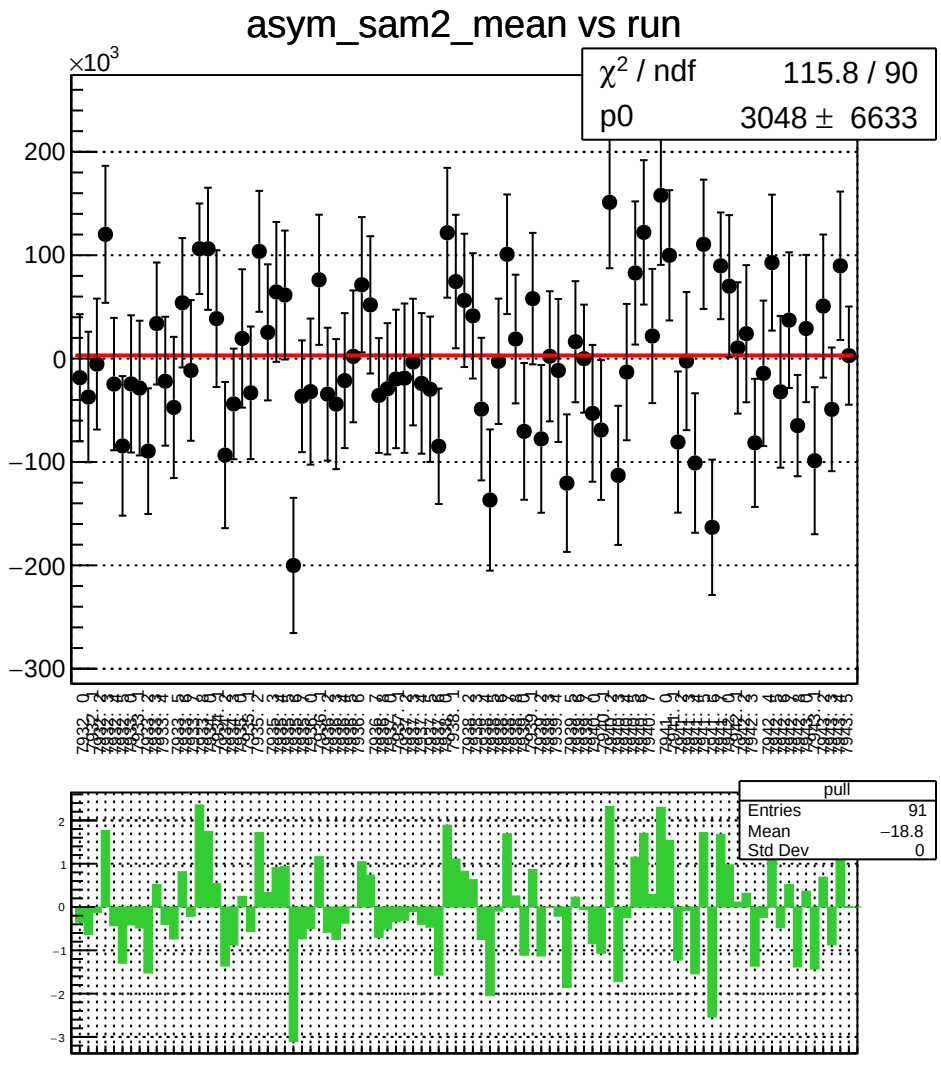

eigen_dit_asym_sam2_mean vs run
χ² / ndf 80 / 90
p0 1155 ± 459.3
pull
Entries 91
Mean 159.8
Std Dev 0
pull1D
Entries 91
Mean −0.01281
Std Dev 0.9375

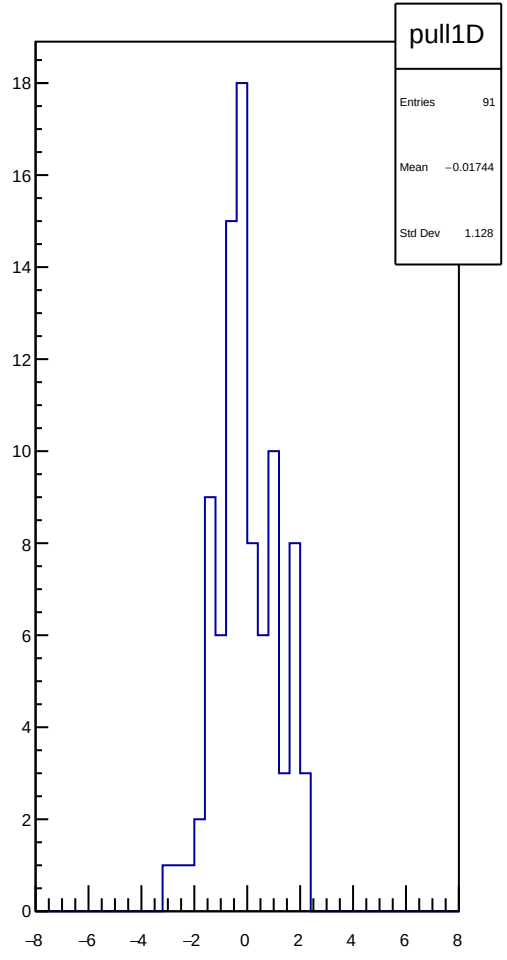

eigen_dit_asym_sam2_rms vs run
χ² / ndf 5125 / 90
p0 428.8 ± 0.3248
540
520
500
480
460
440
420
400
380

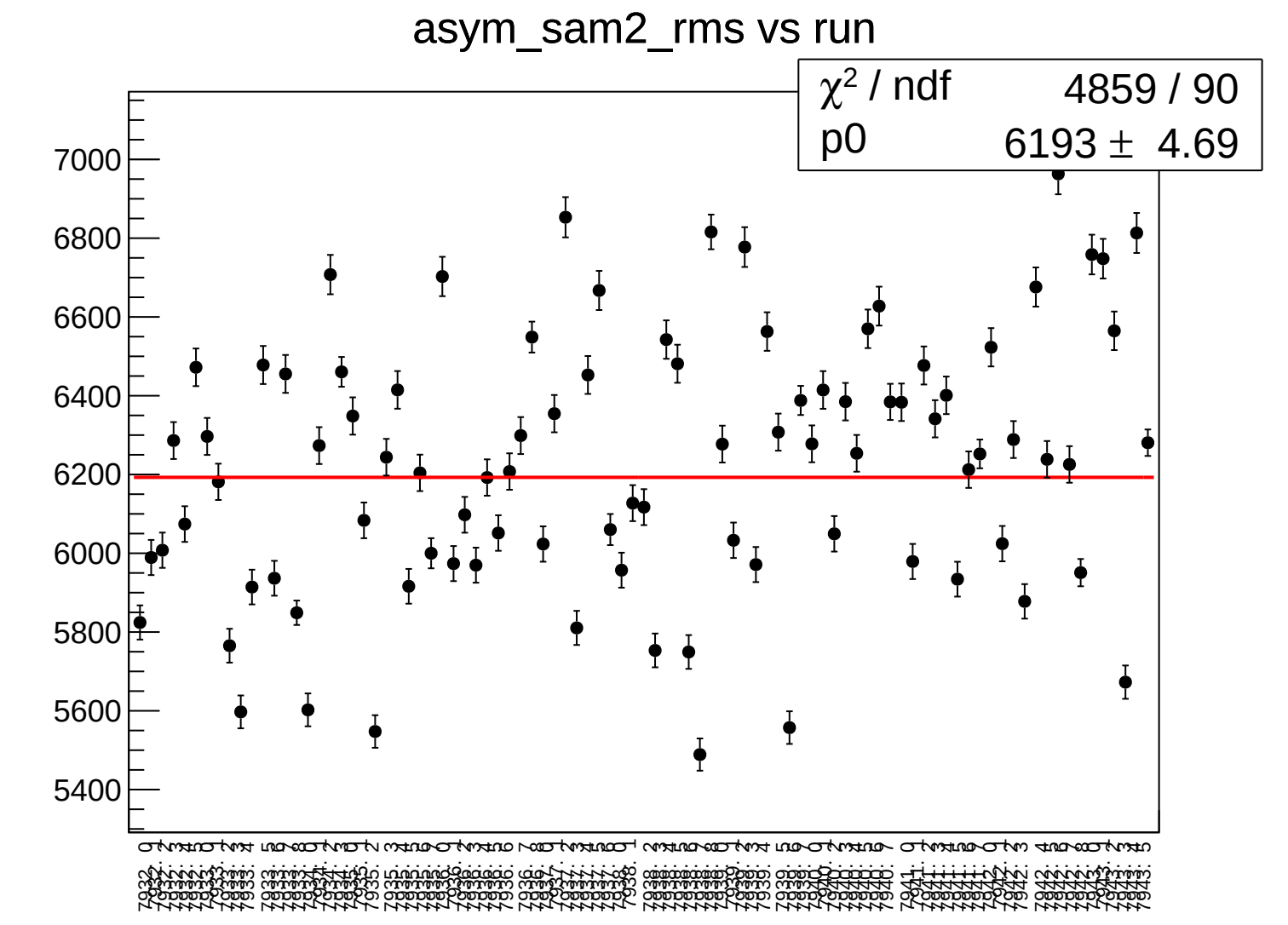

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.8 / 90
p0 −1962 ± 6672
pull
Entries 91
Mean −24.89
Std Dev 0

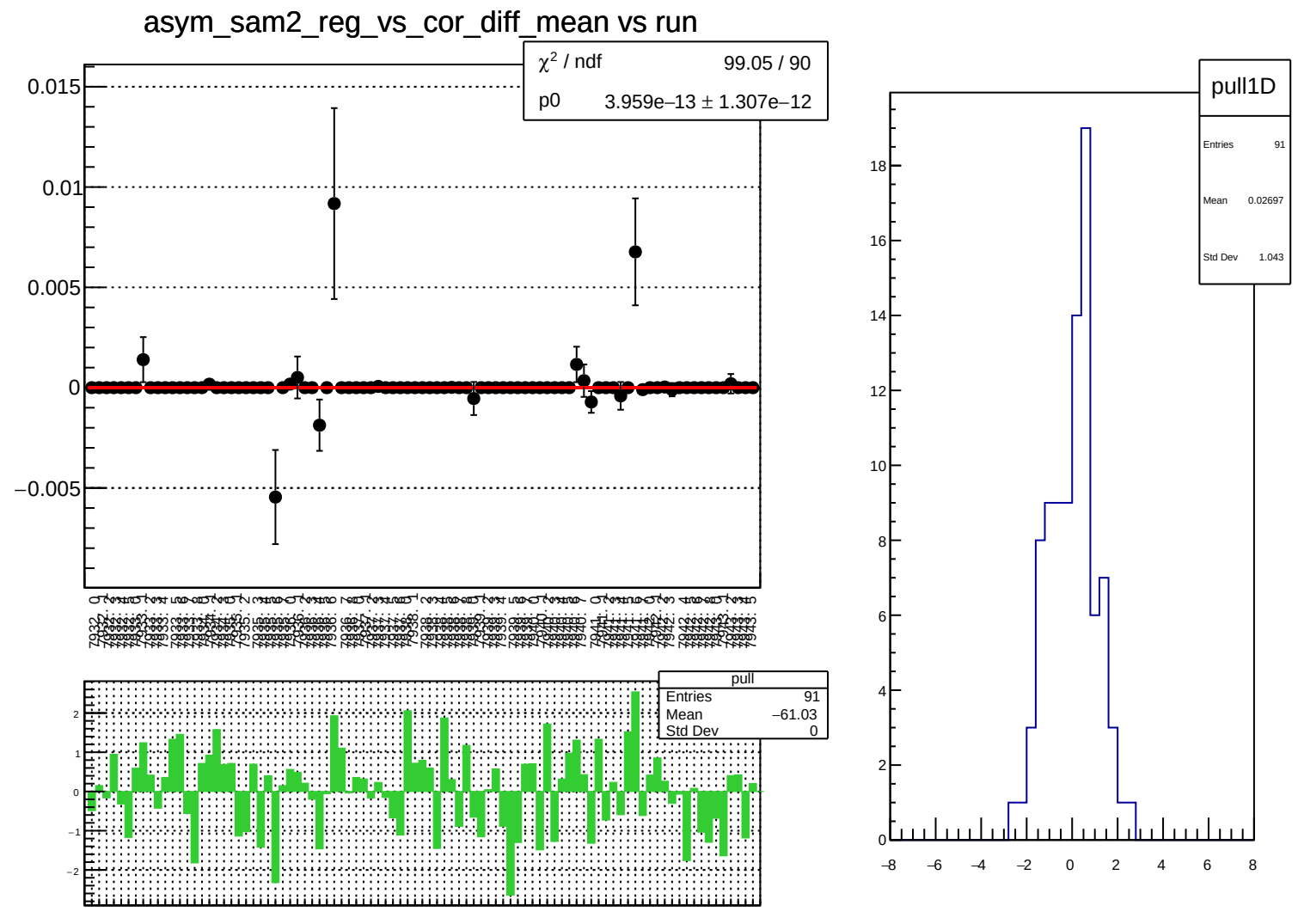

pull1D
Entries 91
Mean 0.01714
Std Dev 1.123

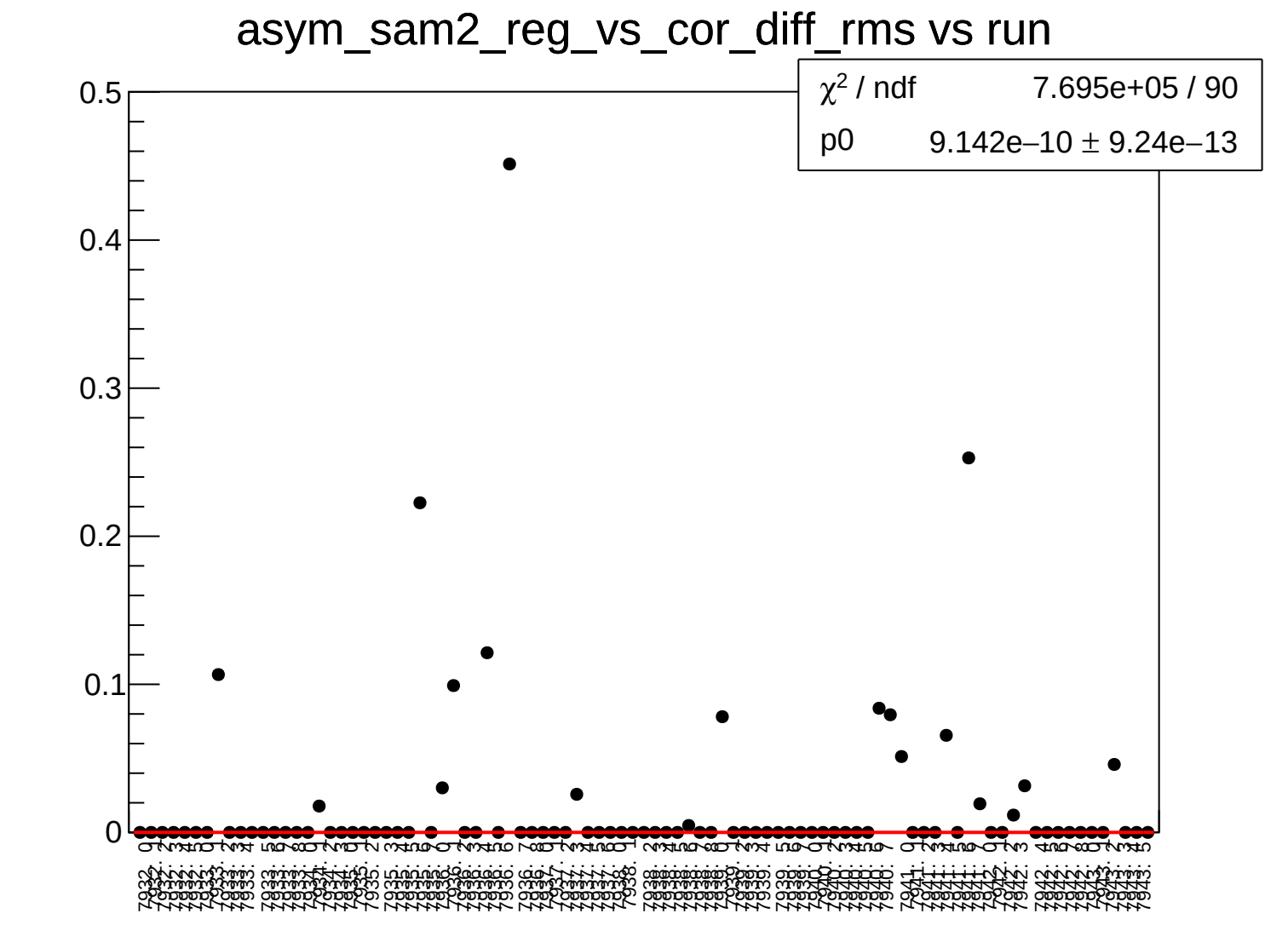

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 5271 / 90
p0 6229 ± 4.718
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

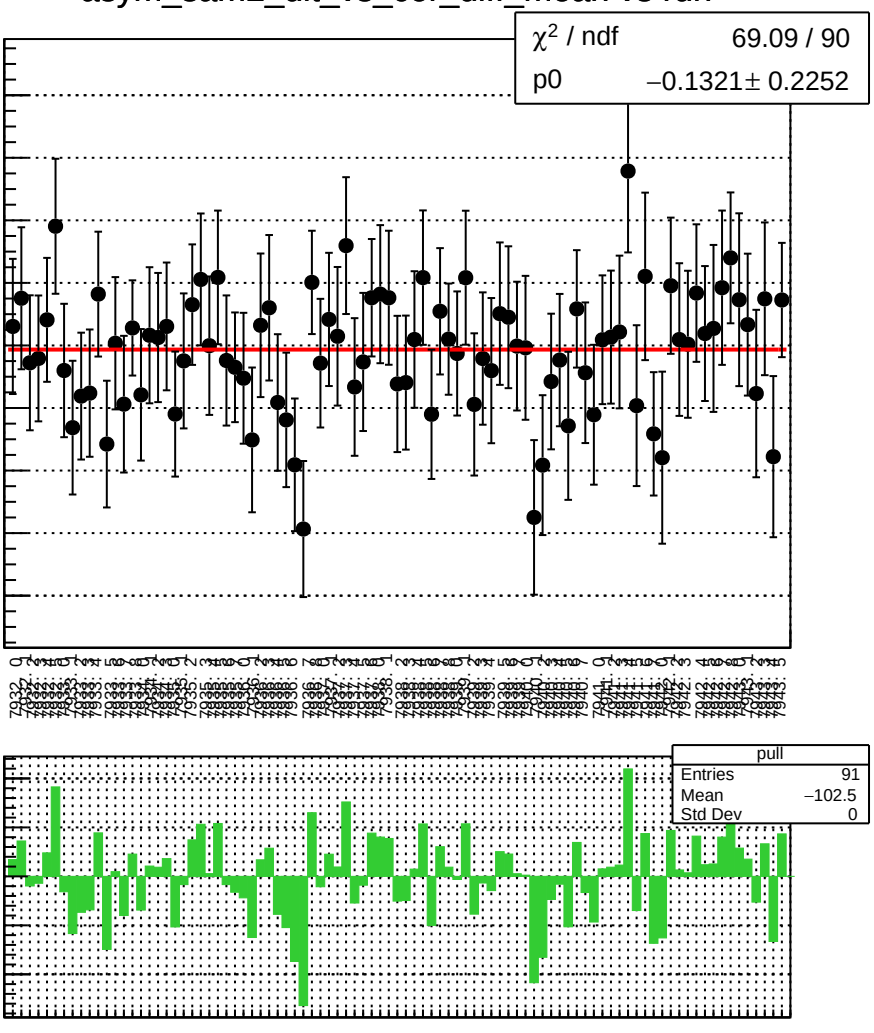

asym_sam2_mean vs run
×10^3
χ^2 / ndf 115.8 / 90
p0 3048 ± 6633
pull
Entries 91
Mean −18.8
Std Dev 0

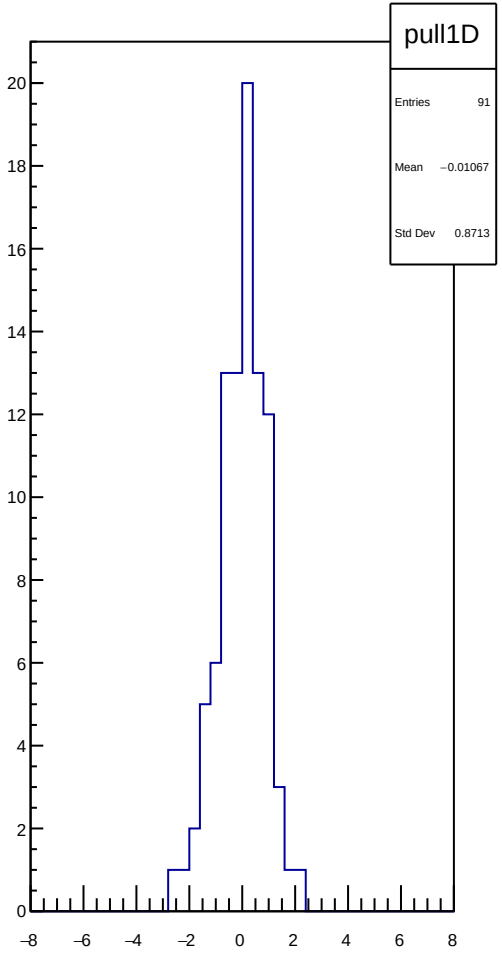

pull1D
Entries 91
Mean −0.01744
Std Dev 1.128

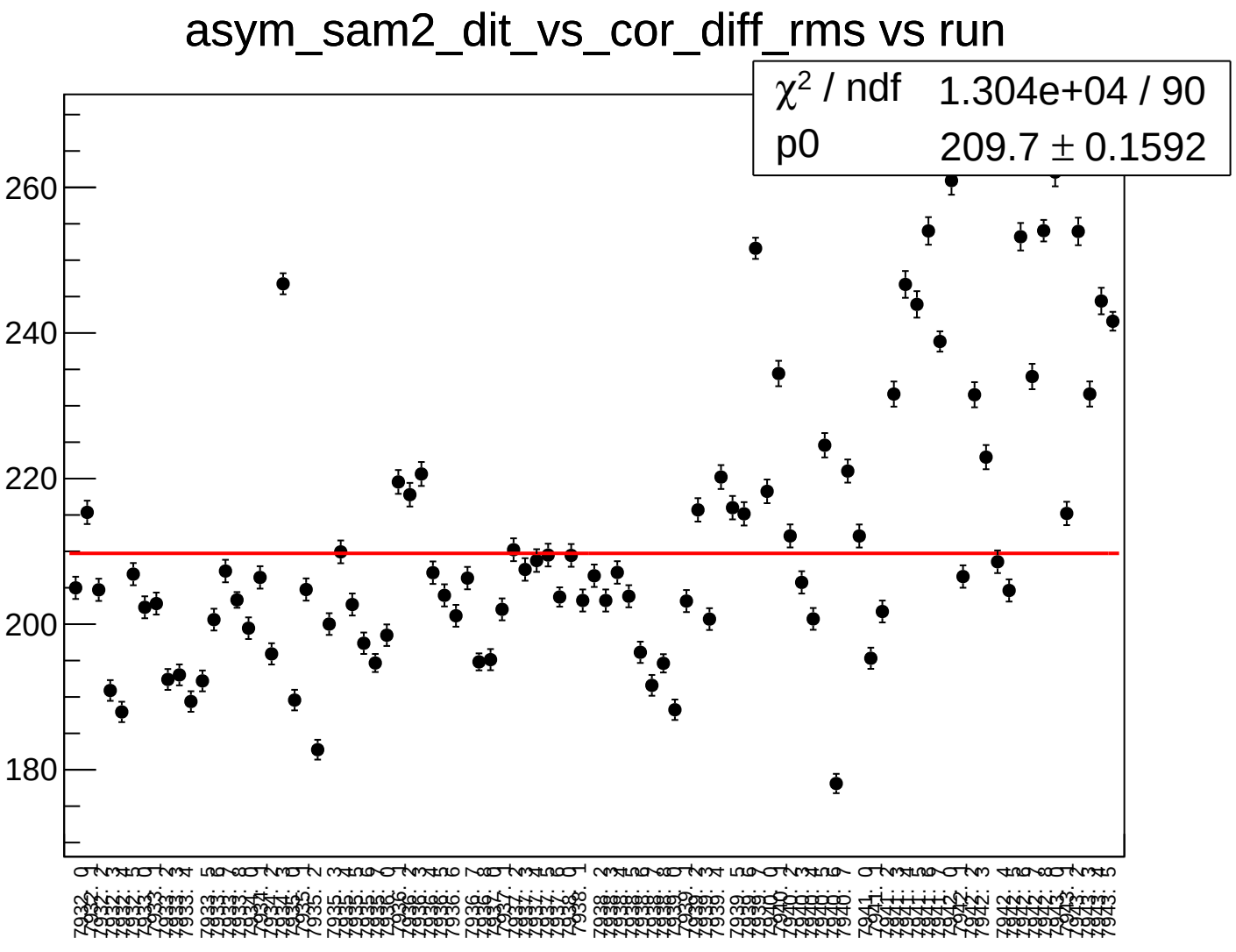

asym_sam2_rms vs run
χ² / ndf 4859 / 90
p0 6193 ± 4.69
7000
6800
6600
6400
6200
6000
5800
5600
5400

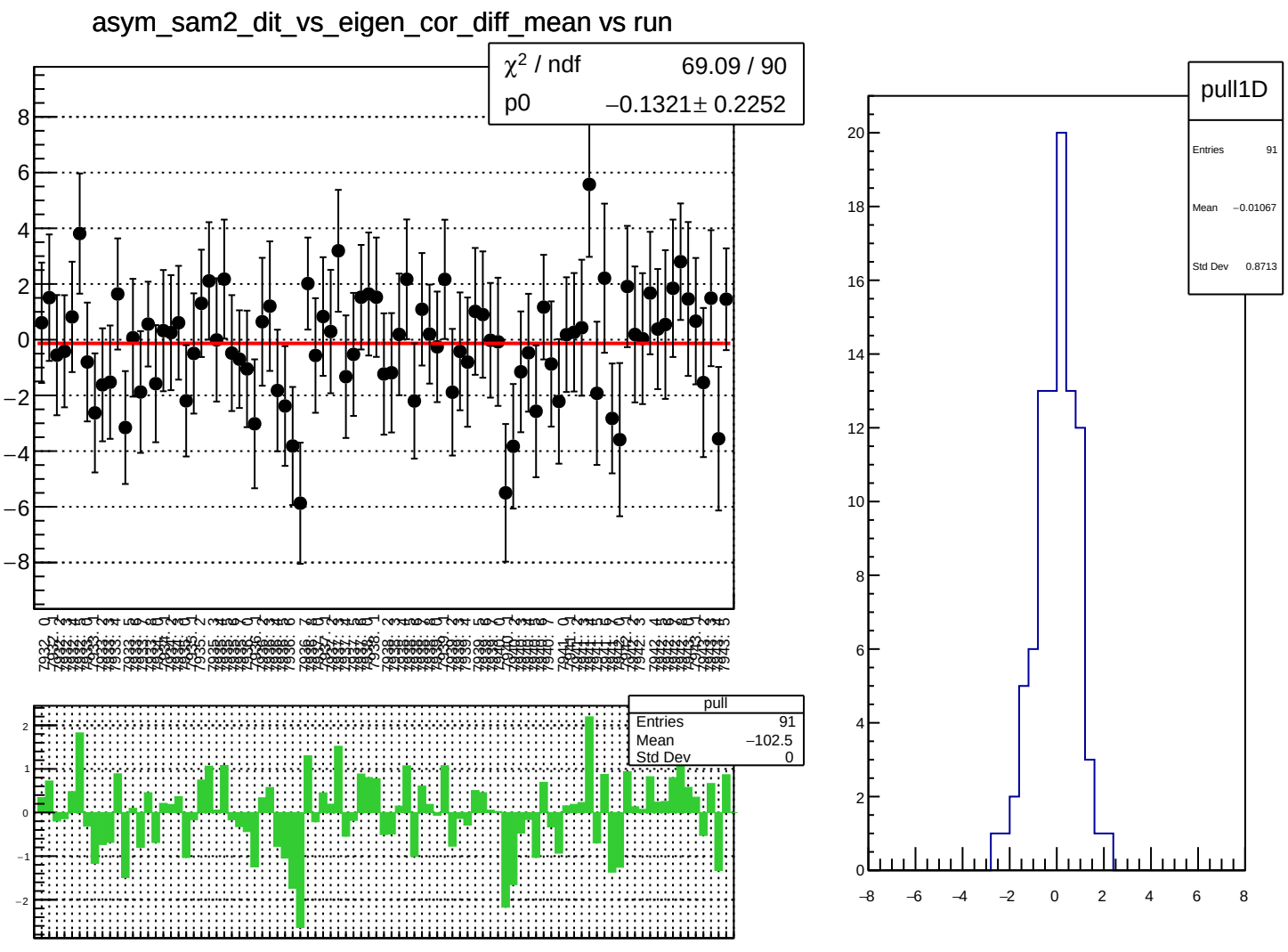

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 99.05 / 90
p0 3.959e−13 ± 1.307e−12
0.015
0.01
0.005
0
−0.005
pull
Entries 91
Mean −61.03
Std Dev 0
pull1D
Entries 91
Mean 0.02697
Std Dev 1.043

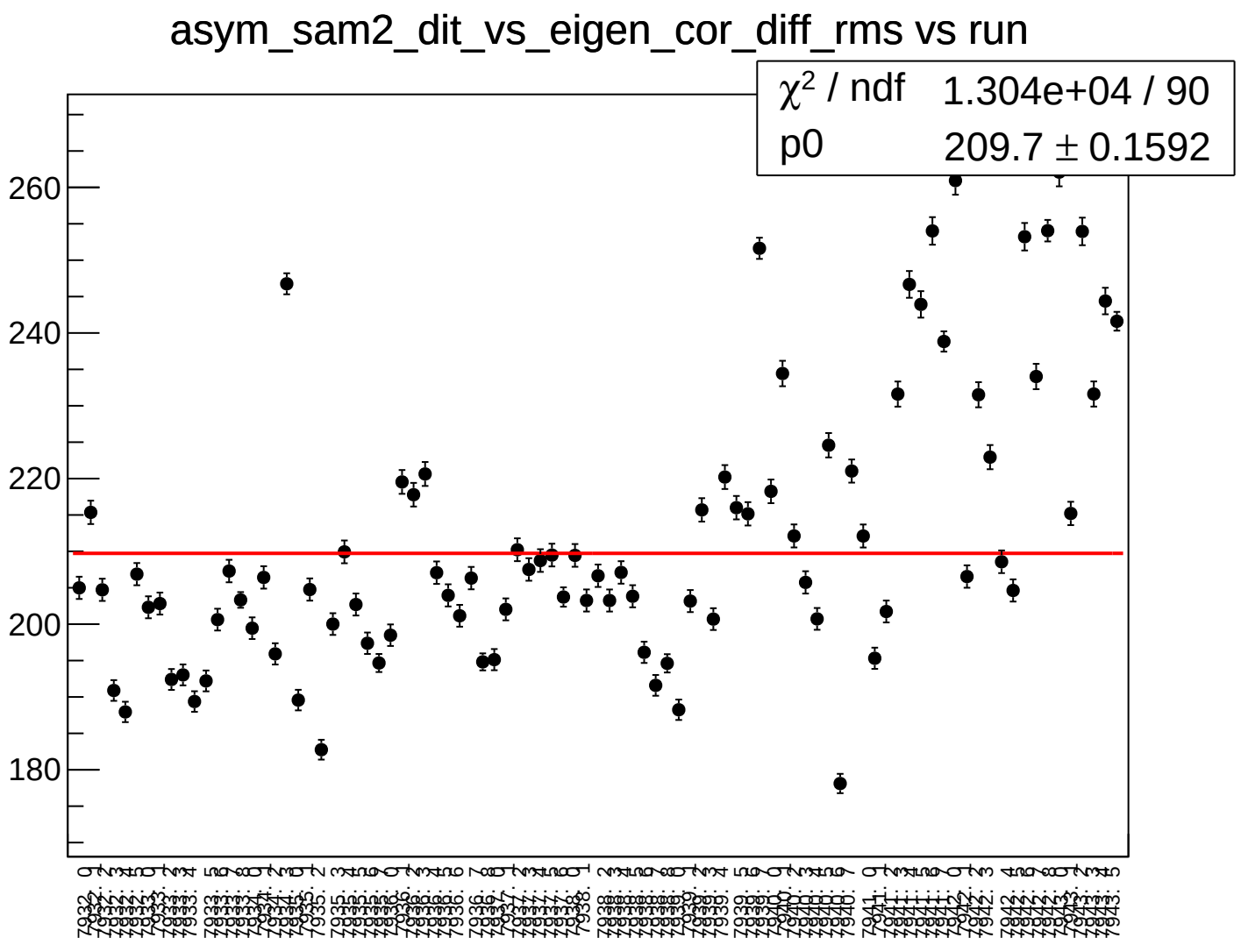

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 7.695e+05 / 90
p0 9.142e−10 ± 9.24e−13
0.5
0.4
0.3
0.2
0.1
0

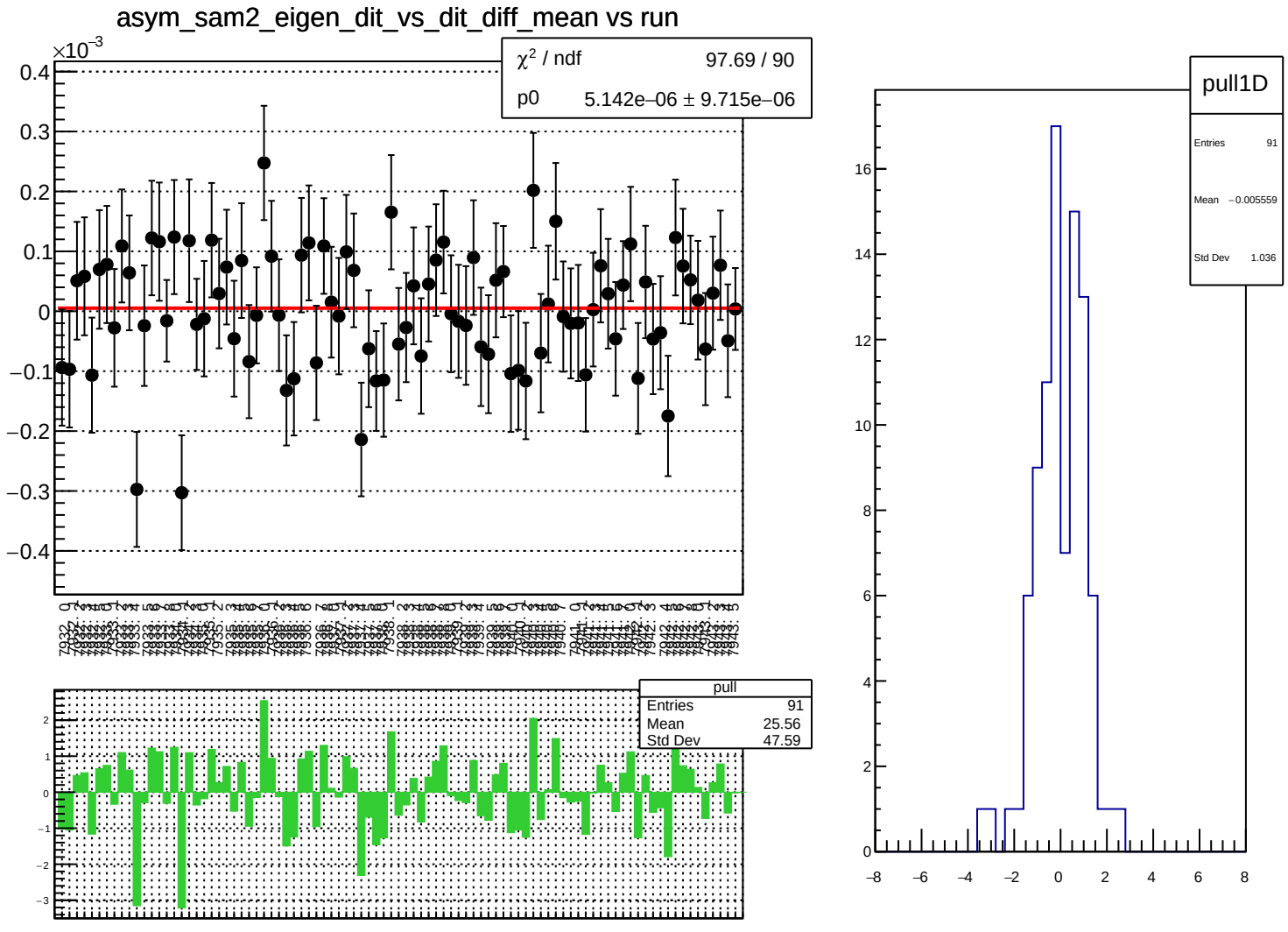

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 69.09 / 90
p0 −0.1321± 0.2252
pull
Entries 91
Mean −102.5
Std Dev 0

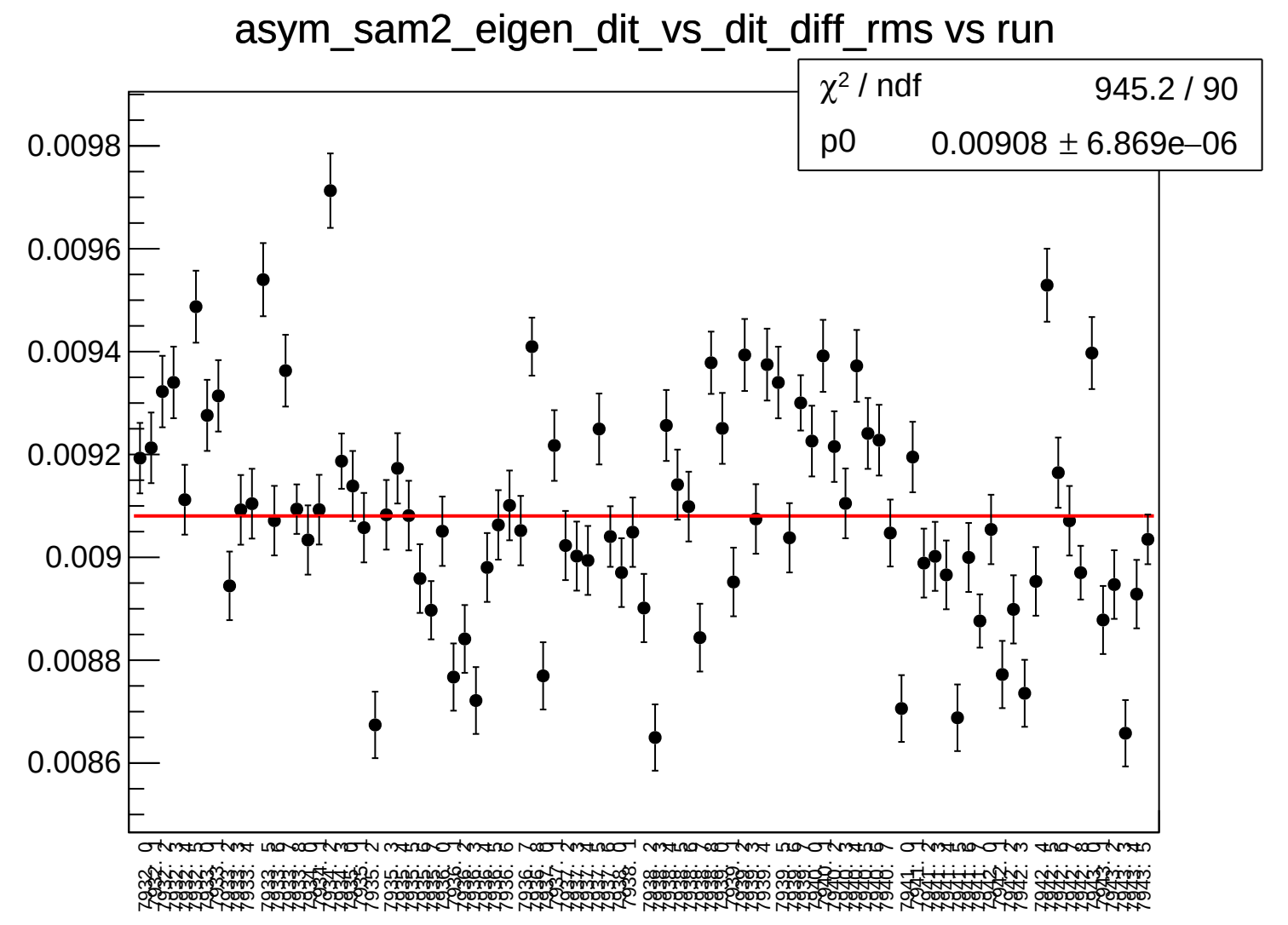

pull1D
Entries 91
Mean −0.01067
Std Dev 0.8713

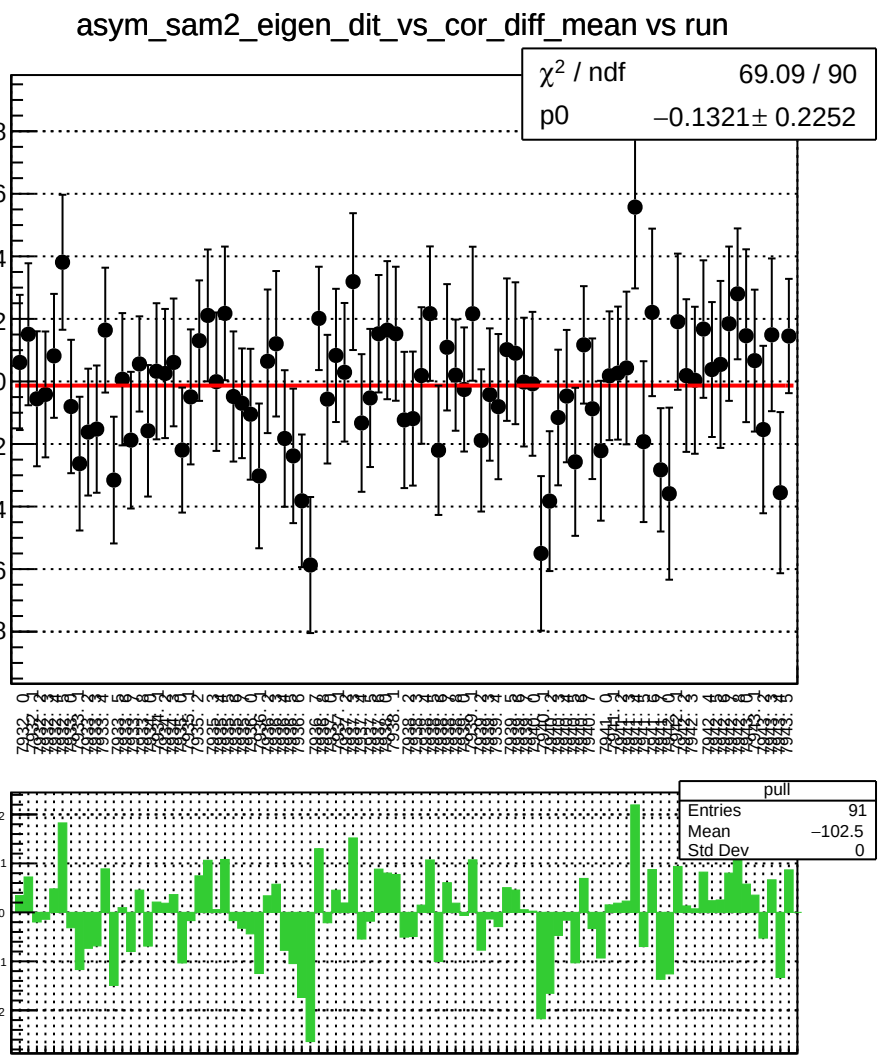

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+04 / 90
p0 209.7 ± 0.1592
260
240
220
200
180

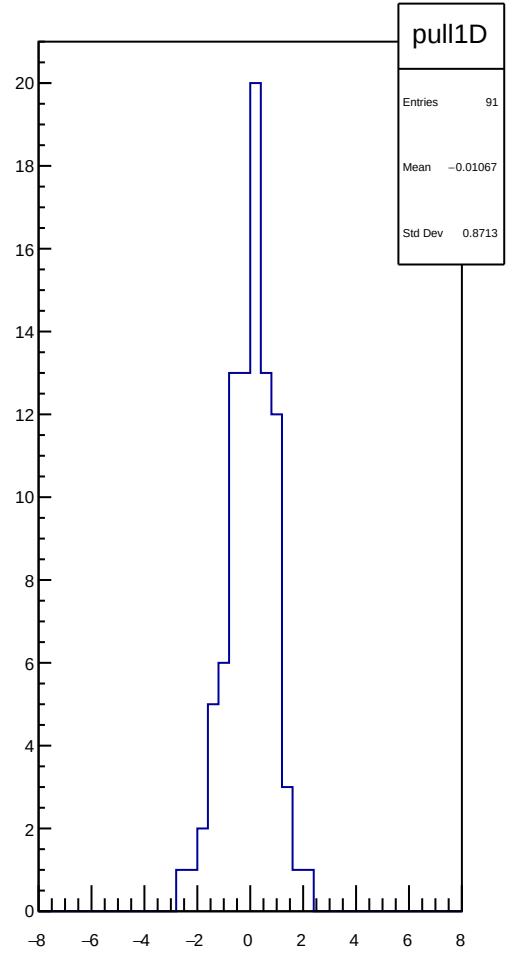

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.09 / 90
p0 −0.1321± 0.2252
pull
Entries 91
Mean −102.5
Std Dev 0
pull1D
Entries 91
Mean −0.01067
Std Dev 0.8713

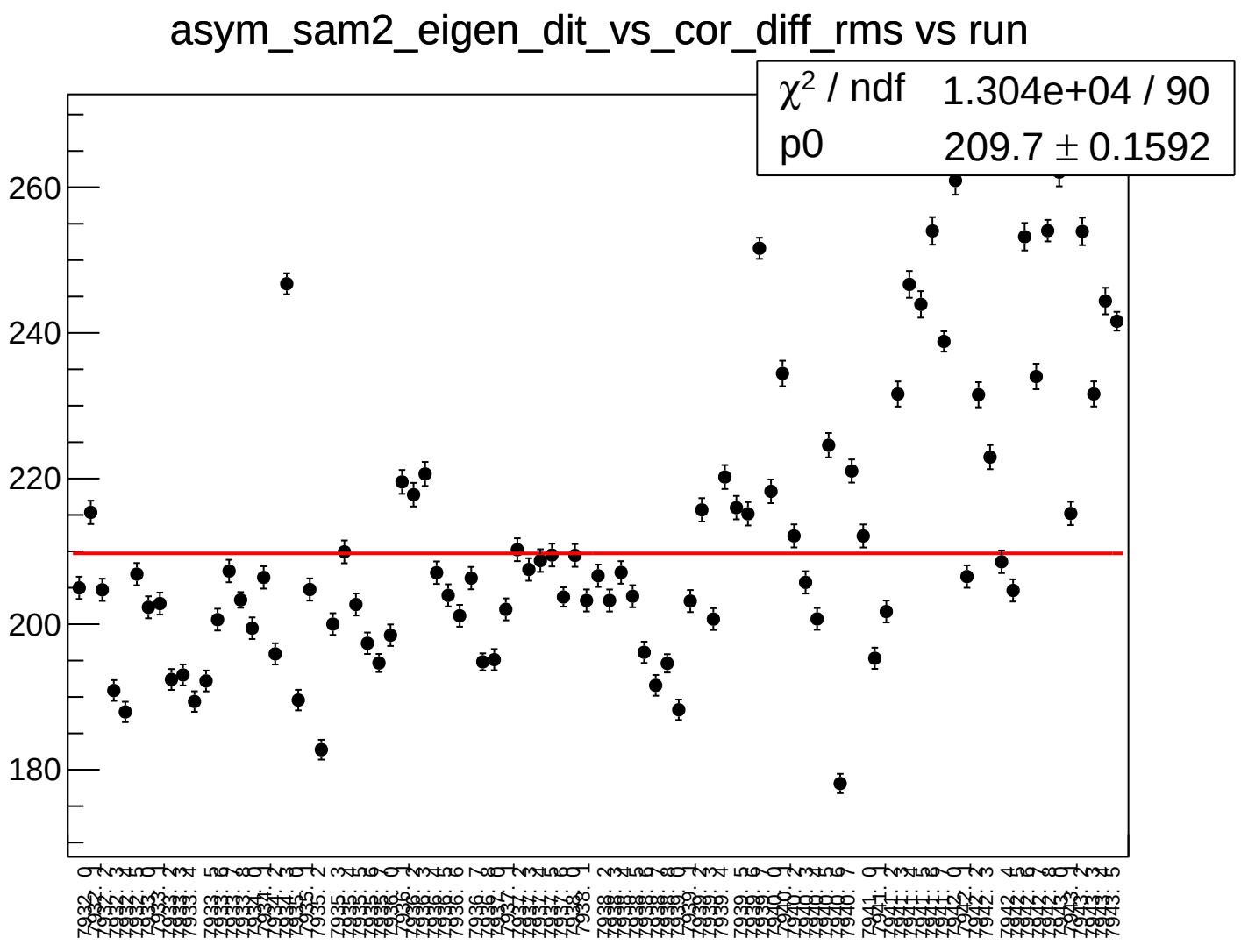

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+04 / 90
p0 209.7 ± 0.1592
260
240
220
200
180

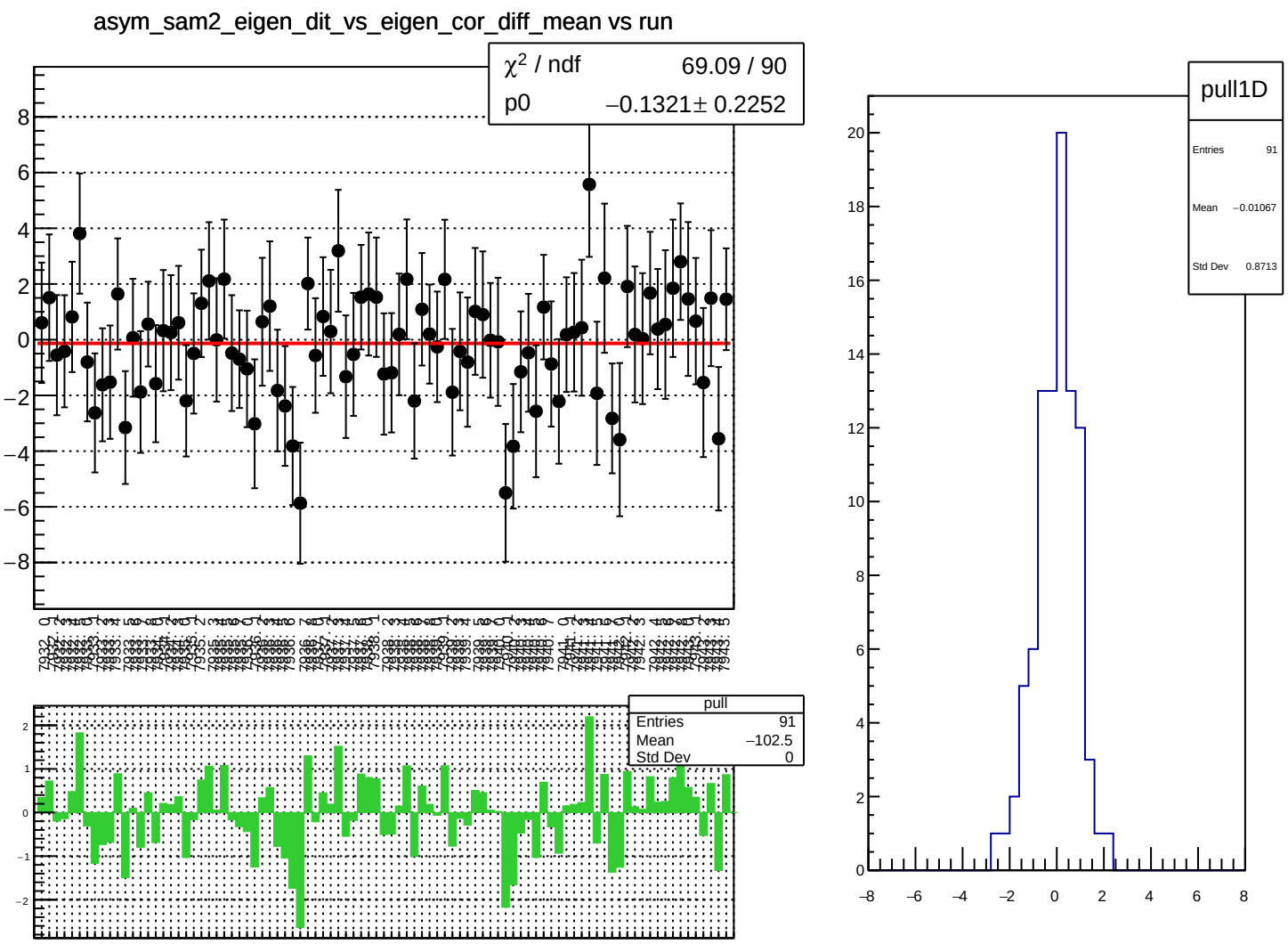

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.69 / 90
p0 5.142e−06 ± 9.715e−06
pull
Entries 91
Mean 25.56
Std Dev 47.59
pull1D
Entries 91
Mean −0.005559
Std Dev 1.036

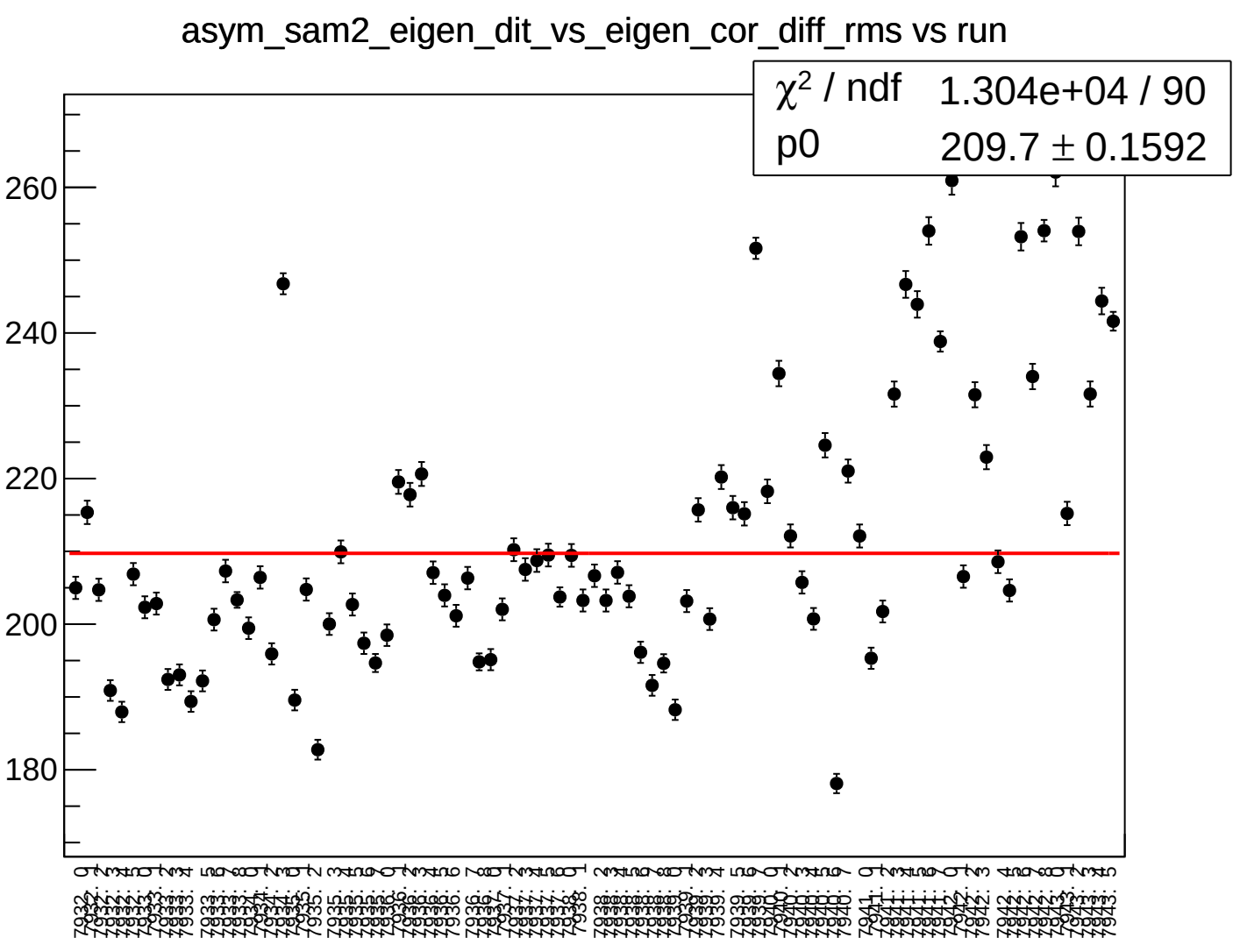

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 945.2 / 90
p0 0.00908 ± 6.869e−06
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086

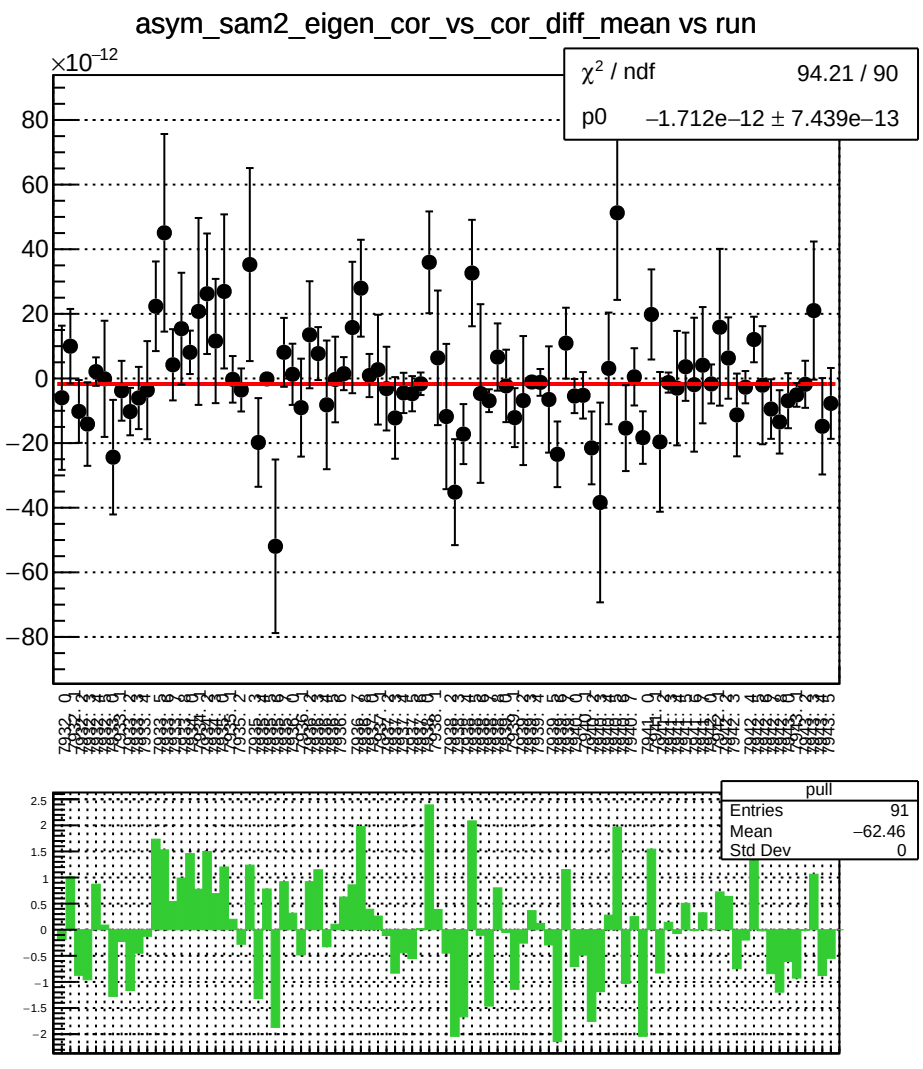

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.09 / 90
p0 −0.1321± 0.2252
pull
Entries 91
Mean −102.5
Std Dev 0

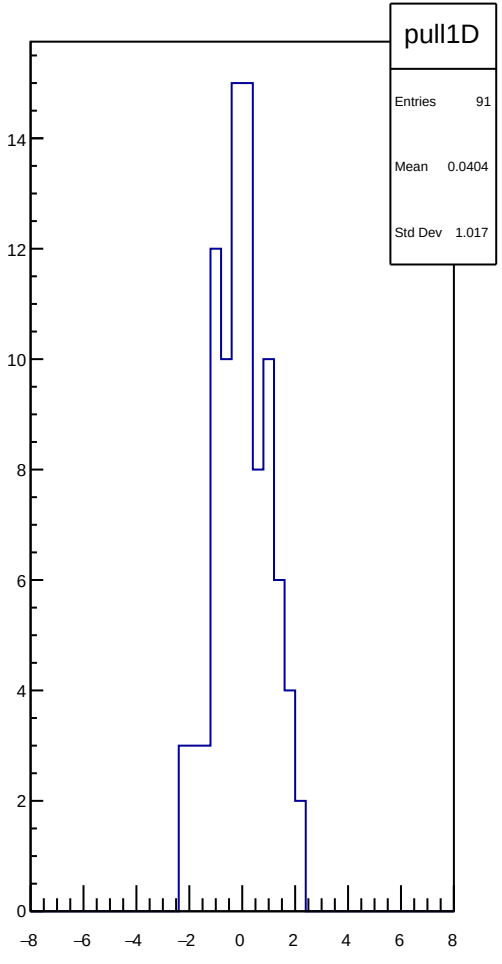

pull1D
Entries 91
Mean −0.01067
Std Dev 0.8713

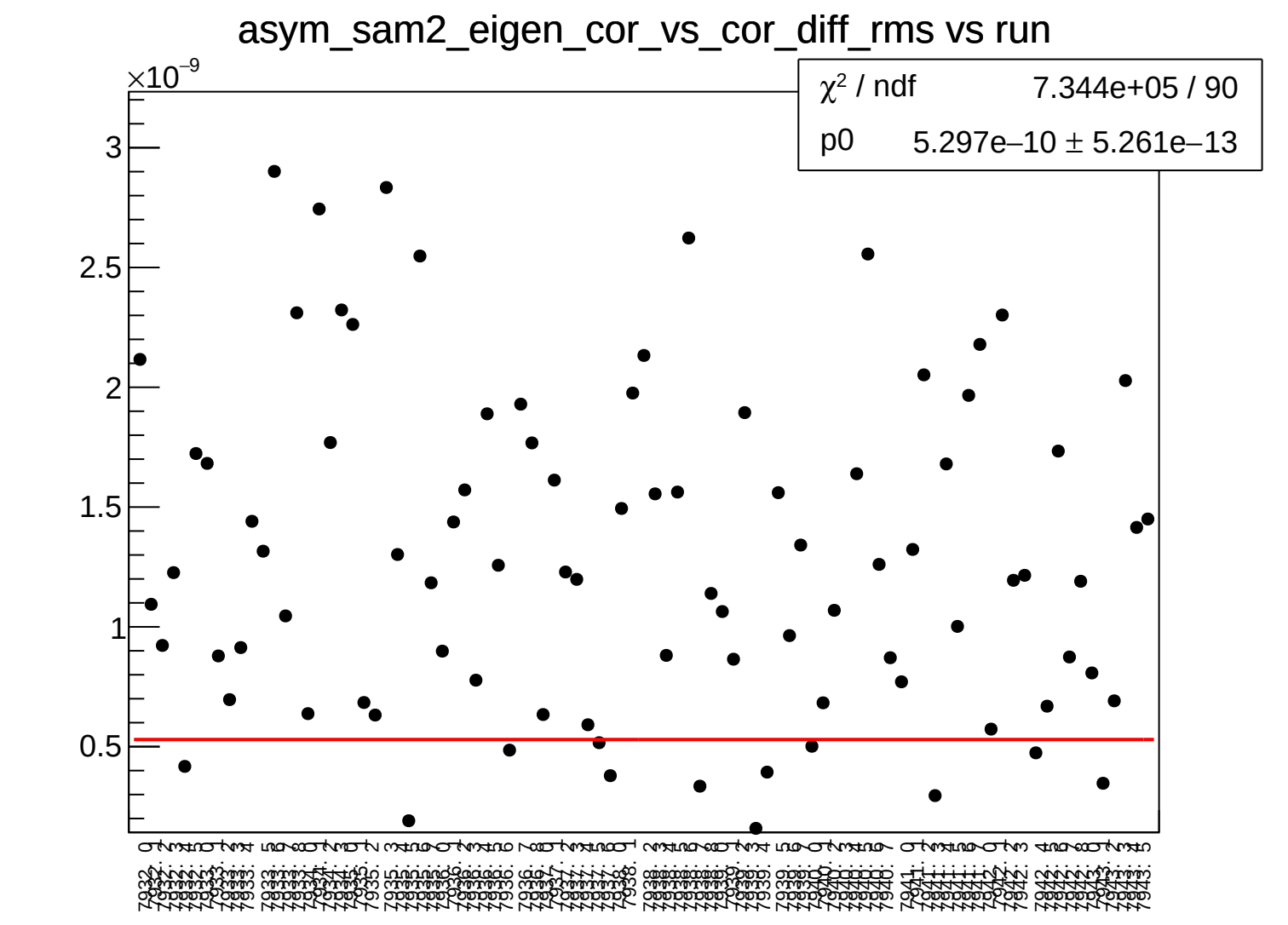

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.304e+04 / 90
p0 209.7 ± 0.1592
260
240
220
200
180

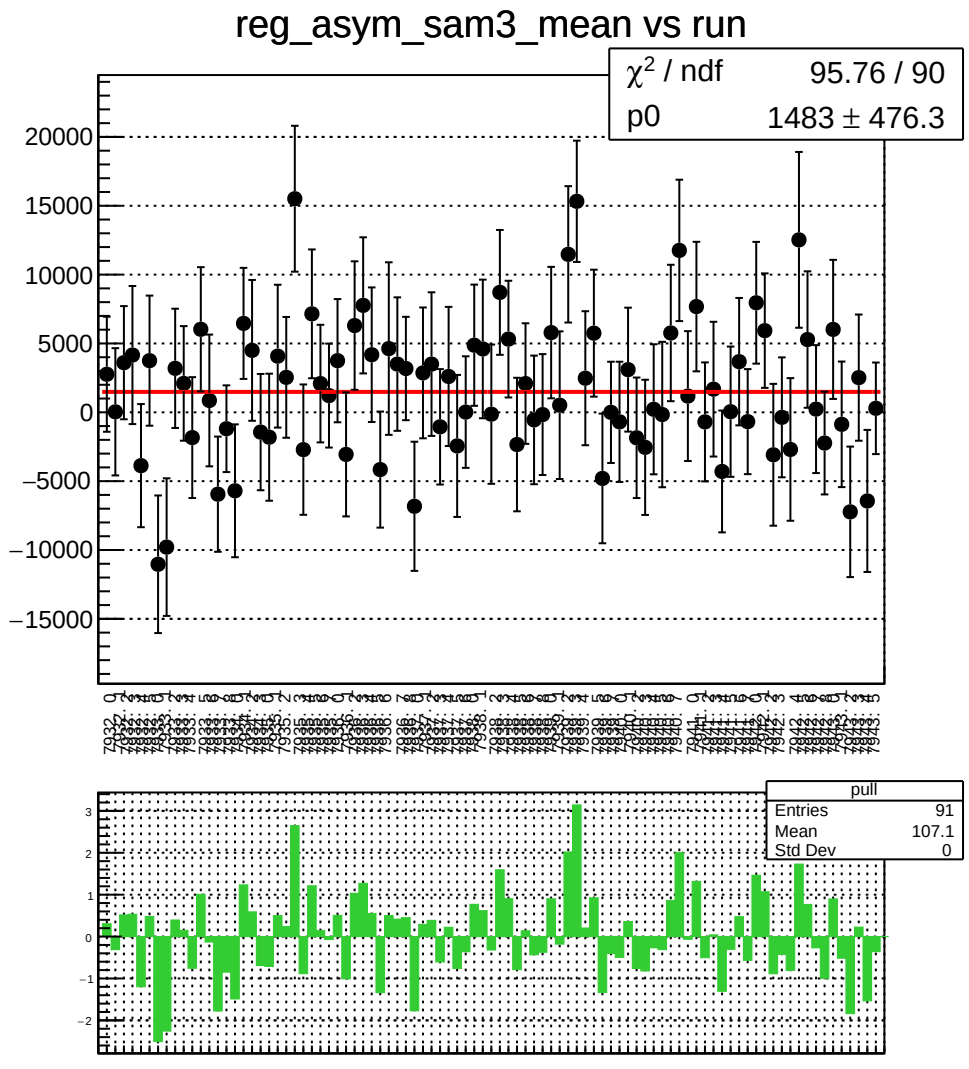

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.09 / 90
p0 −0.1321± 0.2252
pull
Entries 91
Mean −102.5
Std Dev 0
pull1D
Entries 91
Mean −0.01067
Std Dev 0.8713

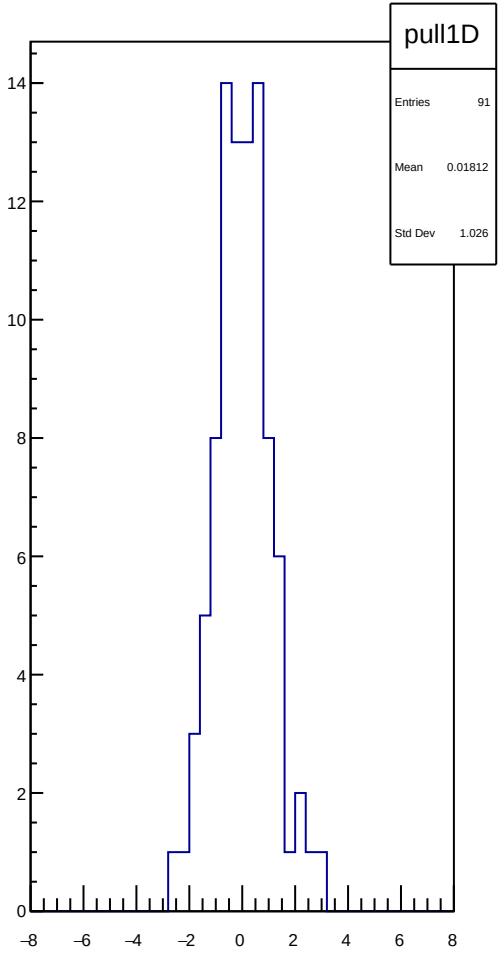

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+04 / 90
p0 209.7 ± 0.1592
260
240
220
200
180

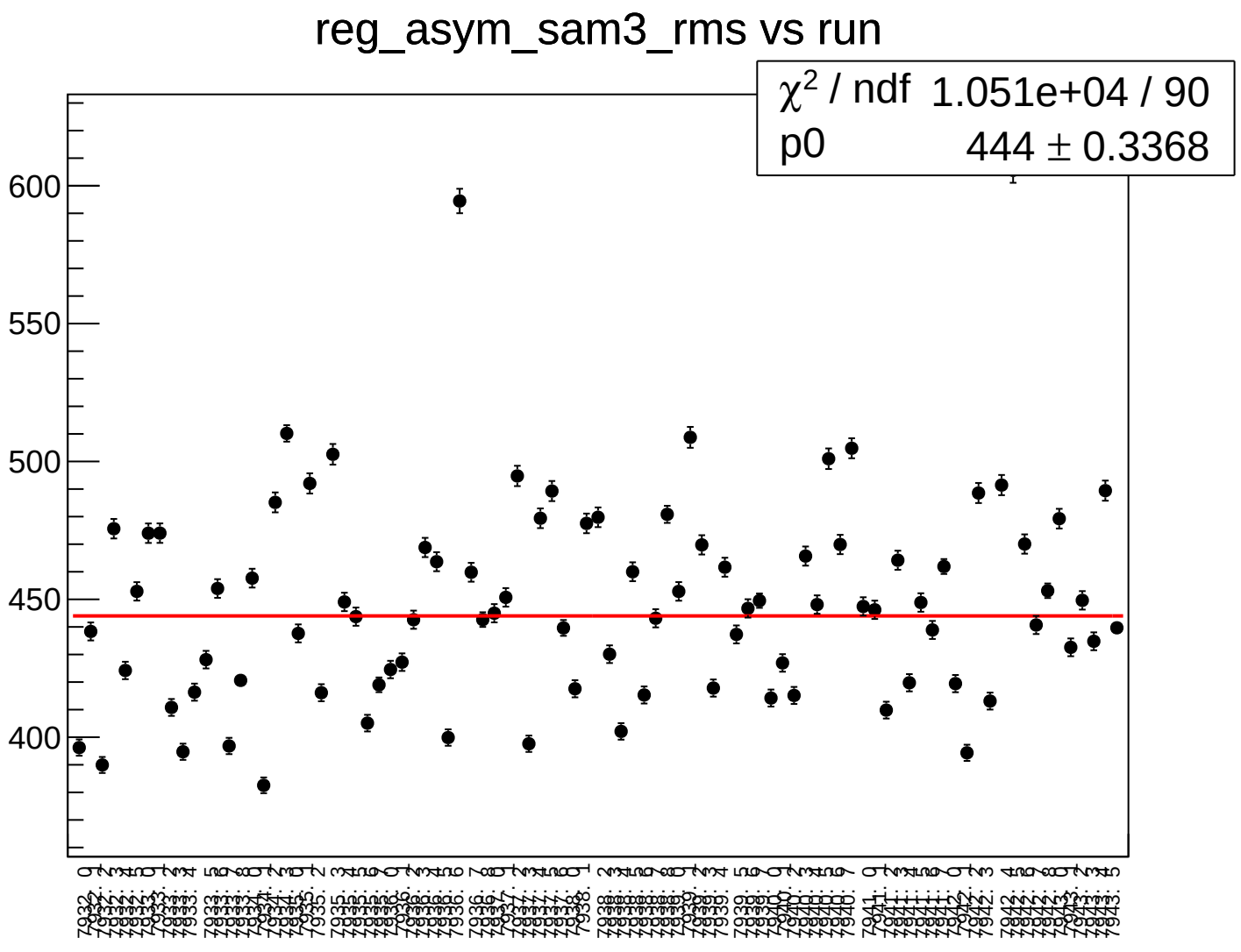

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.21 / 90
p0 −1.712e−12 ± 7.439e−13
pull
Entries 91
Mean −62.46
Std Dev 0

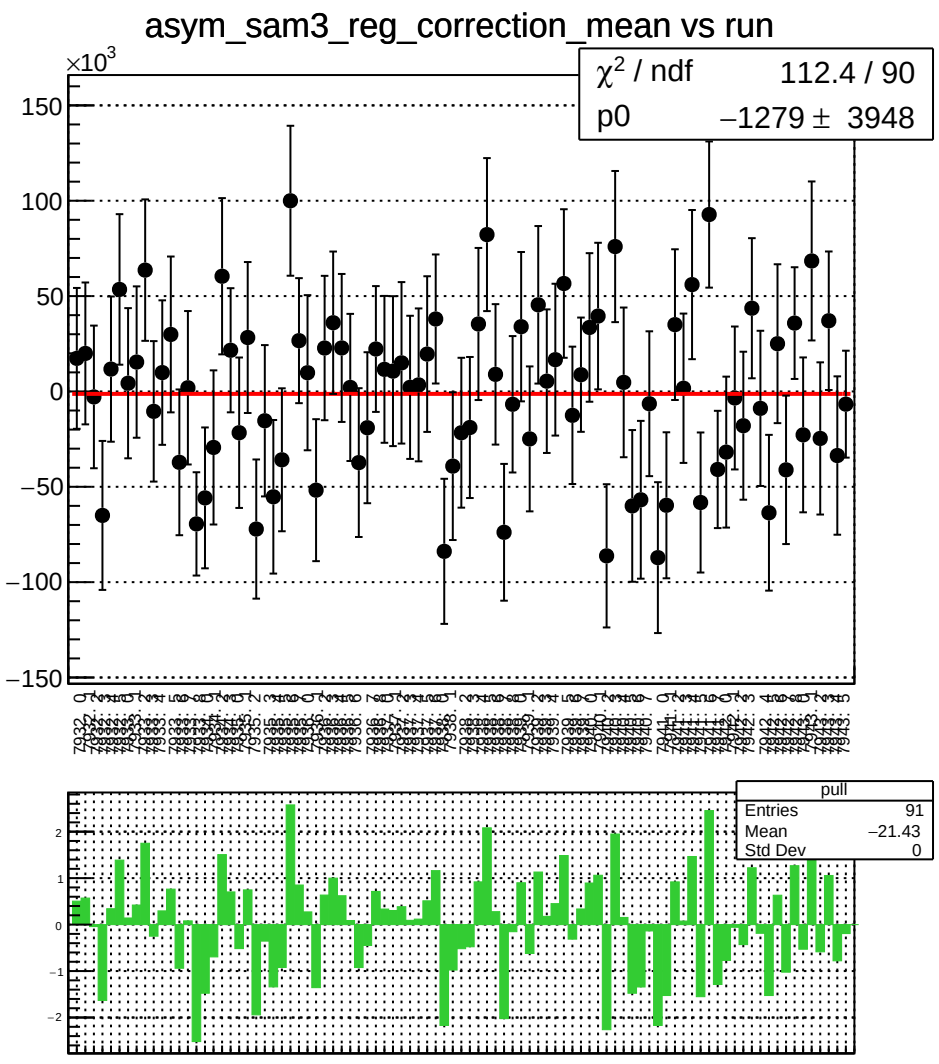

pull1D
Entries 91
Mean 0.0404
Std Dev 1.017

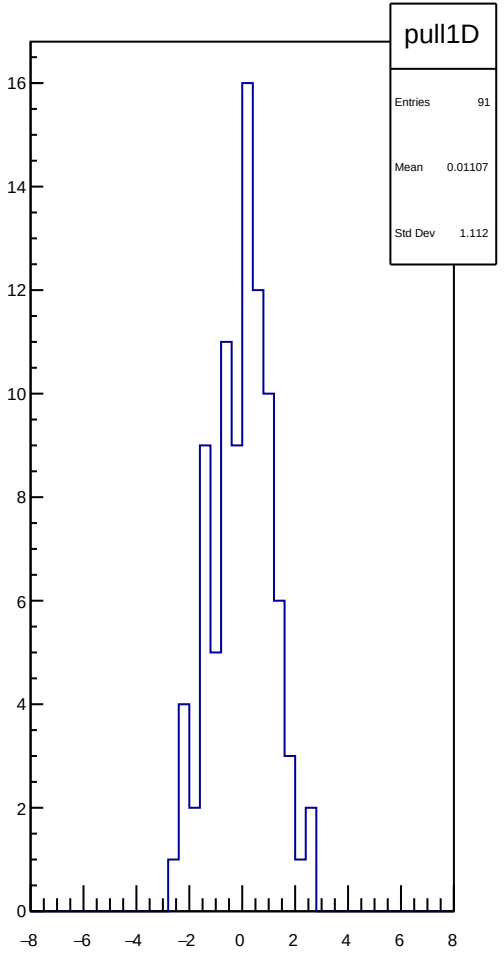

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.344e+05 / 90
p0 5.297e−10 ± 5.261e−13
3
2.5
2
1.5
1
0.5


reg_asym_sam3_mean vs run
χ² / ndf 95.76 / 90
p0 1483 ± 476.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 107.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01812
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_rms vs run
χ^2 / ndf 1.051e+04 / 90
p0 444 ± 0.3368
600
550
500
450
400


asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 112.4 / 90
p0 −1279 ± 3948
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −21.43
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01107
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
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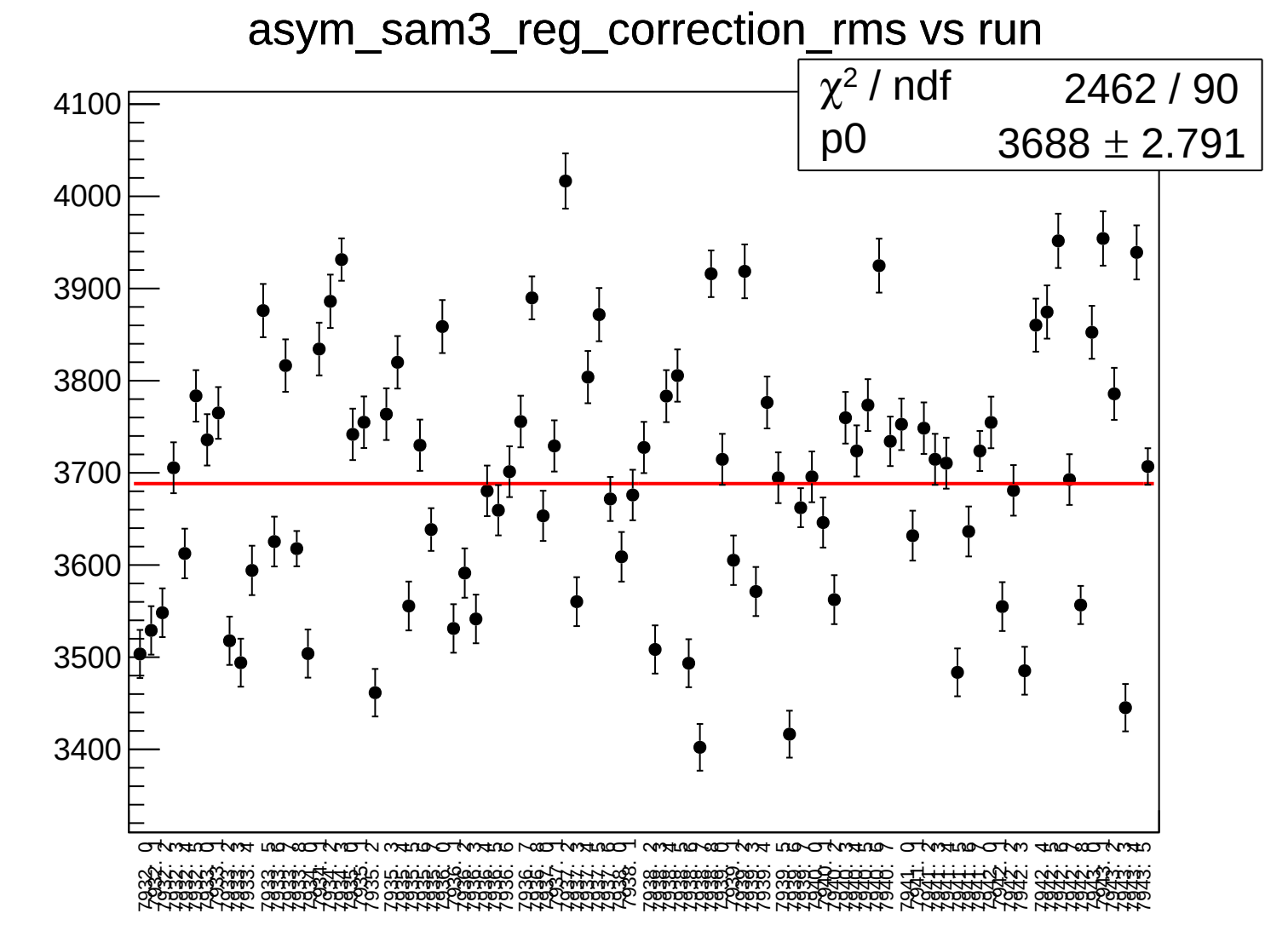
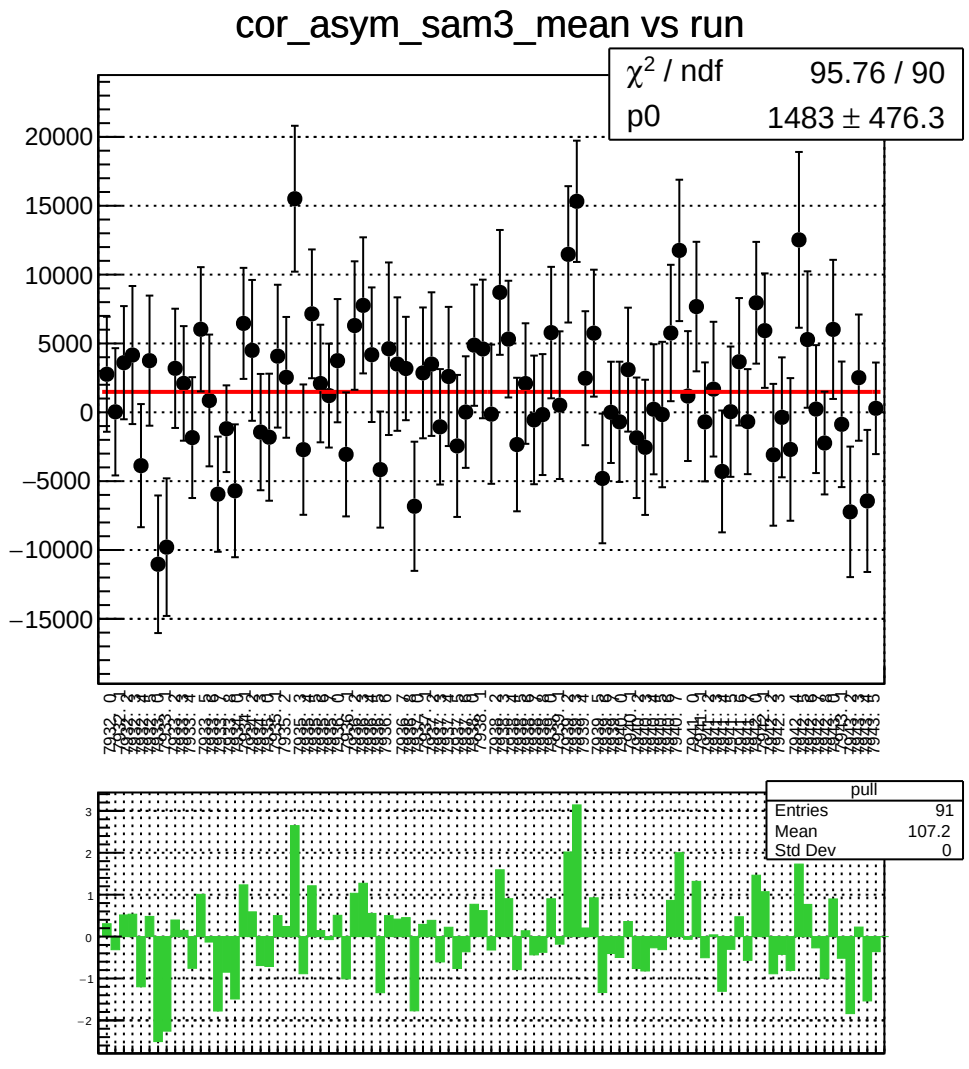
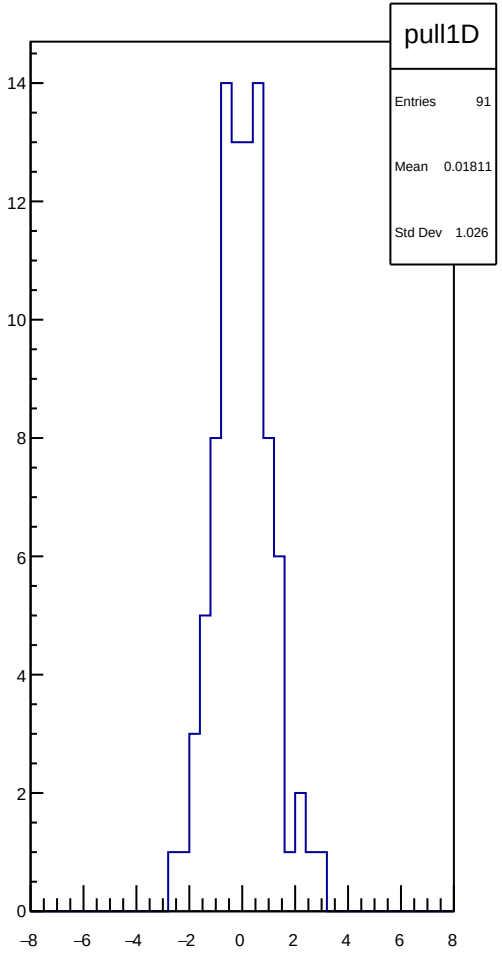
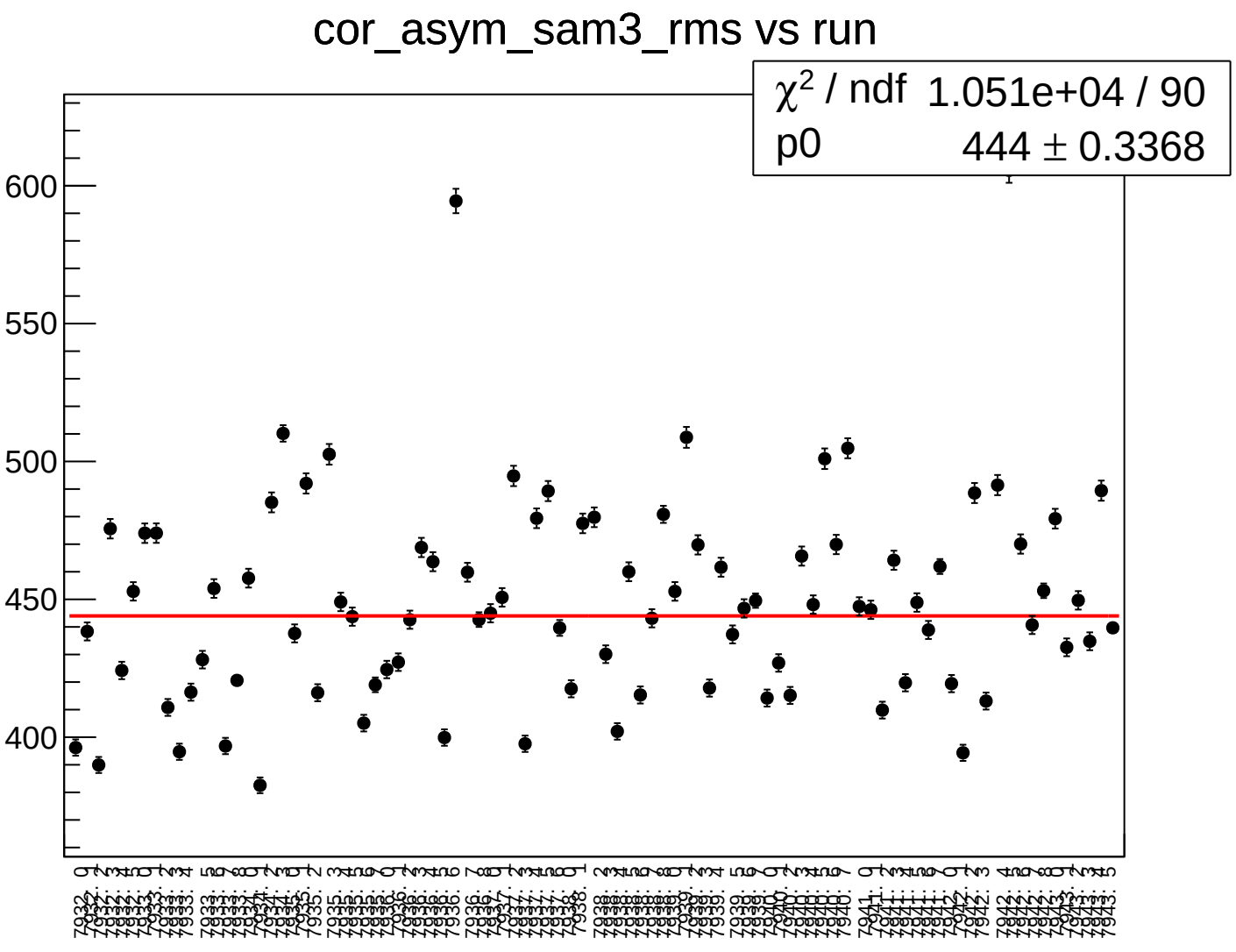
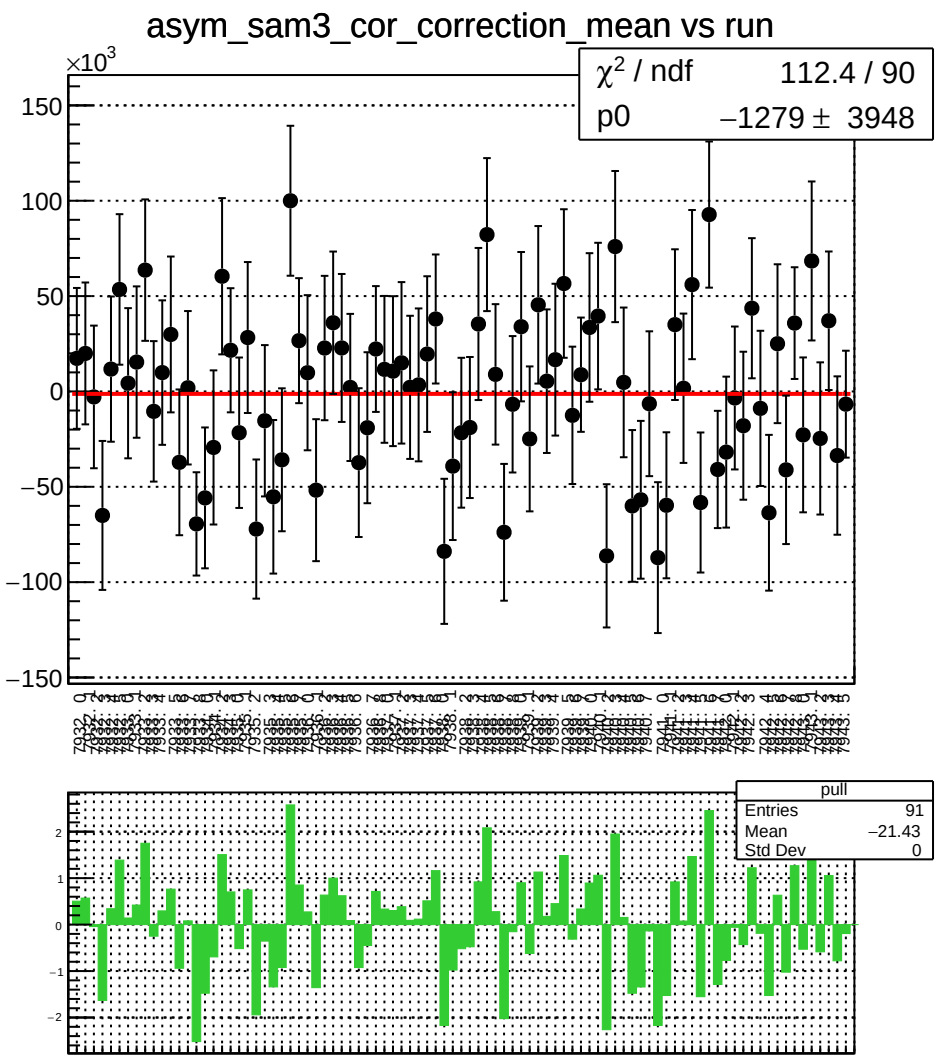
0
2
4
6
8

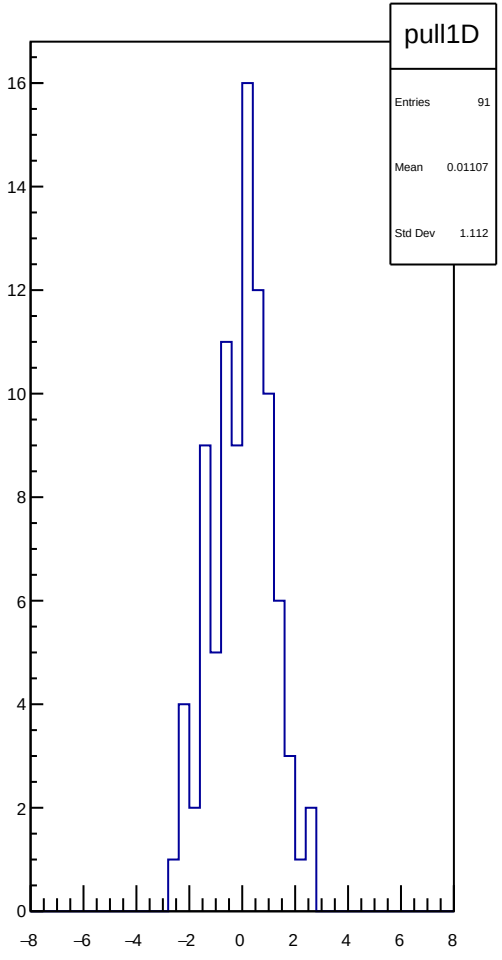

asym_sam3_reg_correction_rms vs run
χ² / ndf 2462 / 90
p0 3688 ± 2.791
4100
4000
3900
3800
3700
3600
3500
3400


cor_asym_sam3_mean vs run
χ² / ndf 95.76 / 90
p0 1483 ± 476.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 107.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01811
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam3_rms vs run
χ^2 / ndf 1.051e+04 / 90
p0 444 ± 0.3368
600
550
500
450
400


asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 112.4 / 90
p0 −1279 ± 3948
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −21.43
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01107
Std Dev 1.112
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14
12
10
8
6
4
2
0
−8
−6
−4
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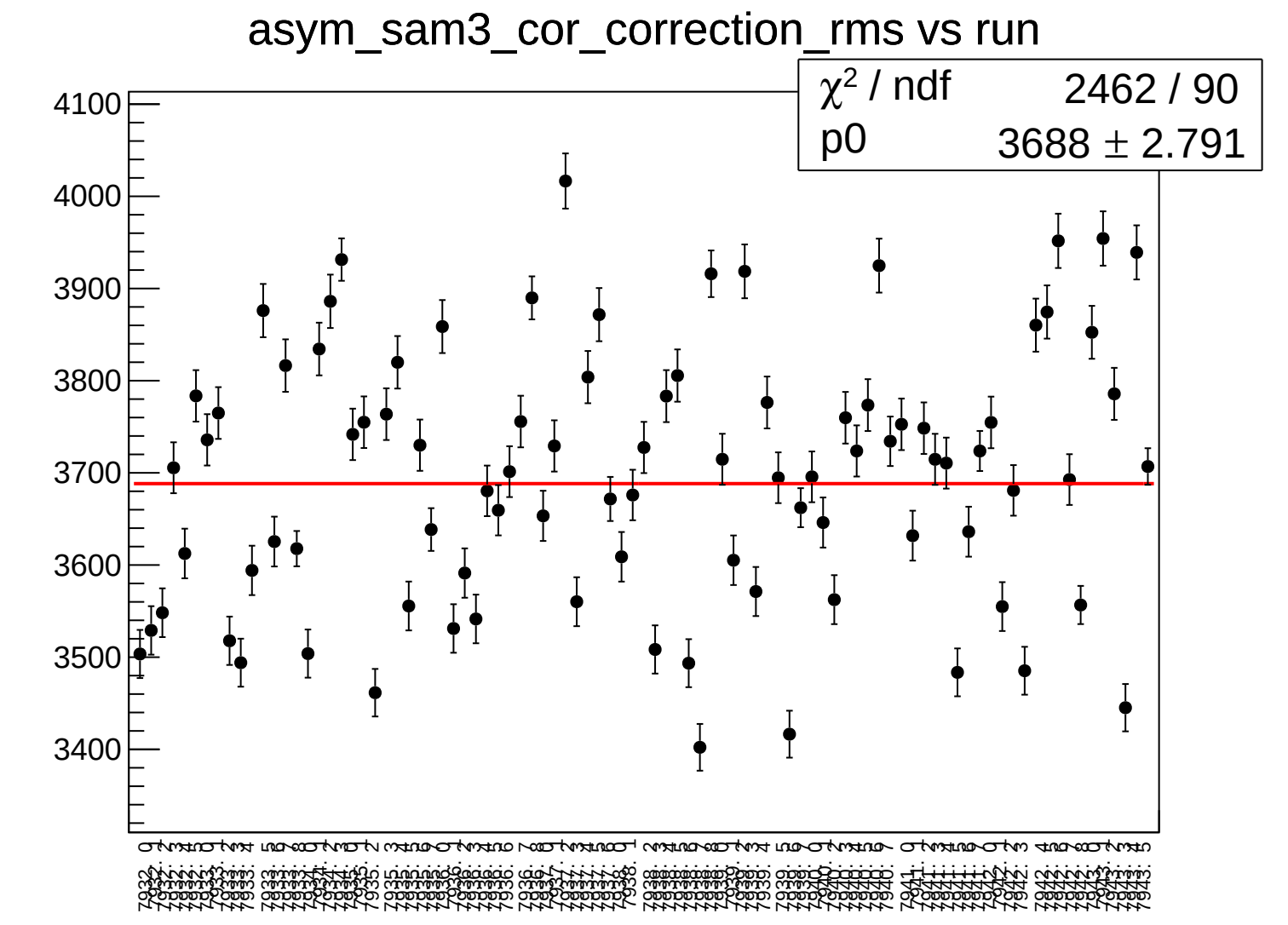
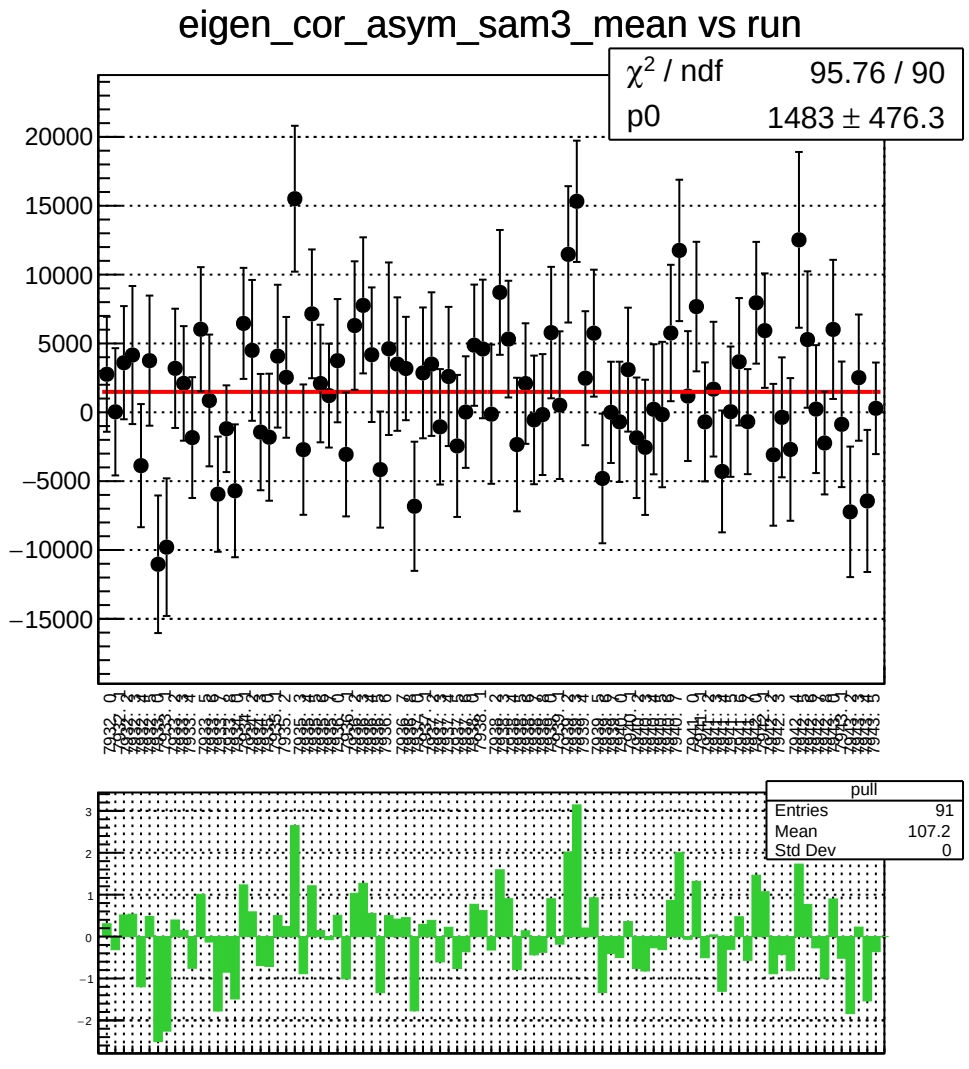
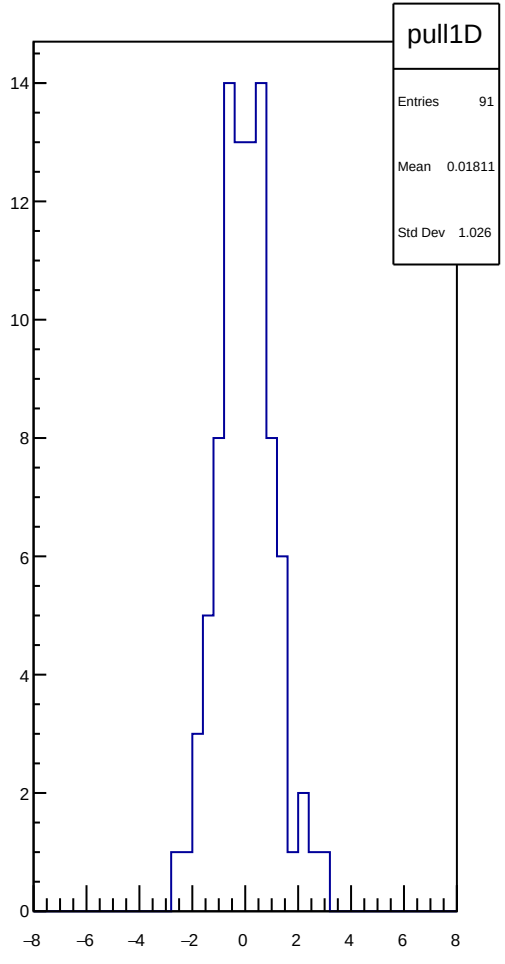
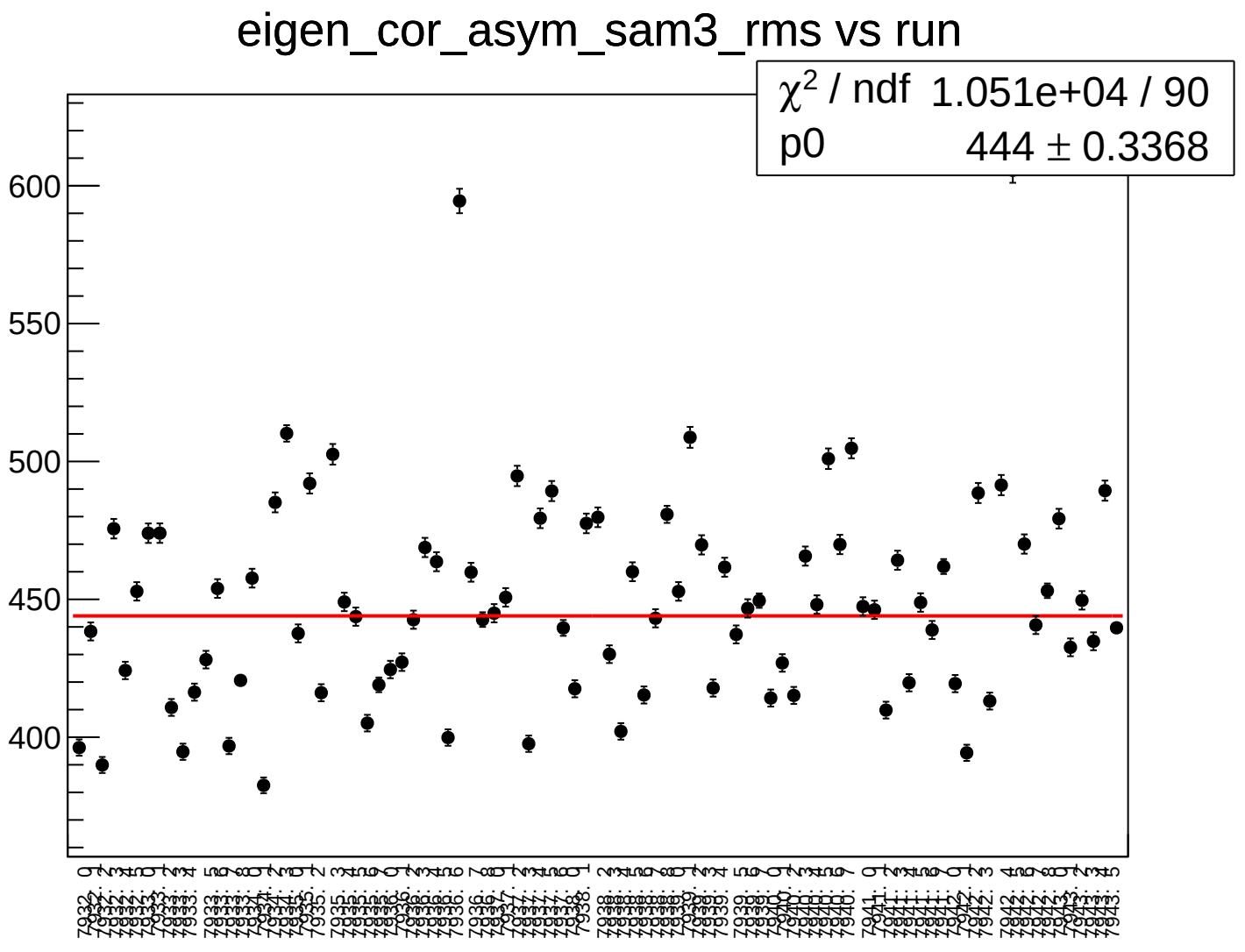
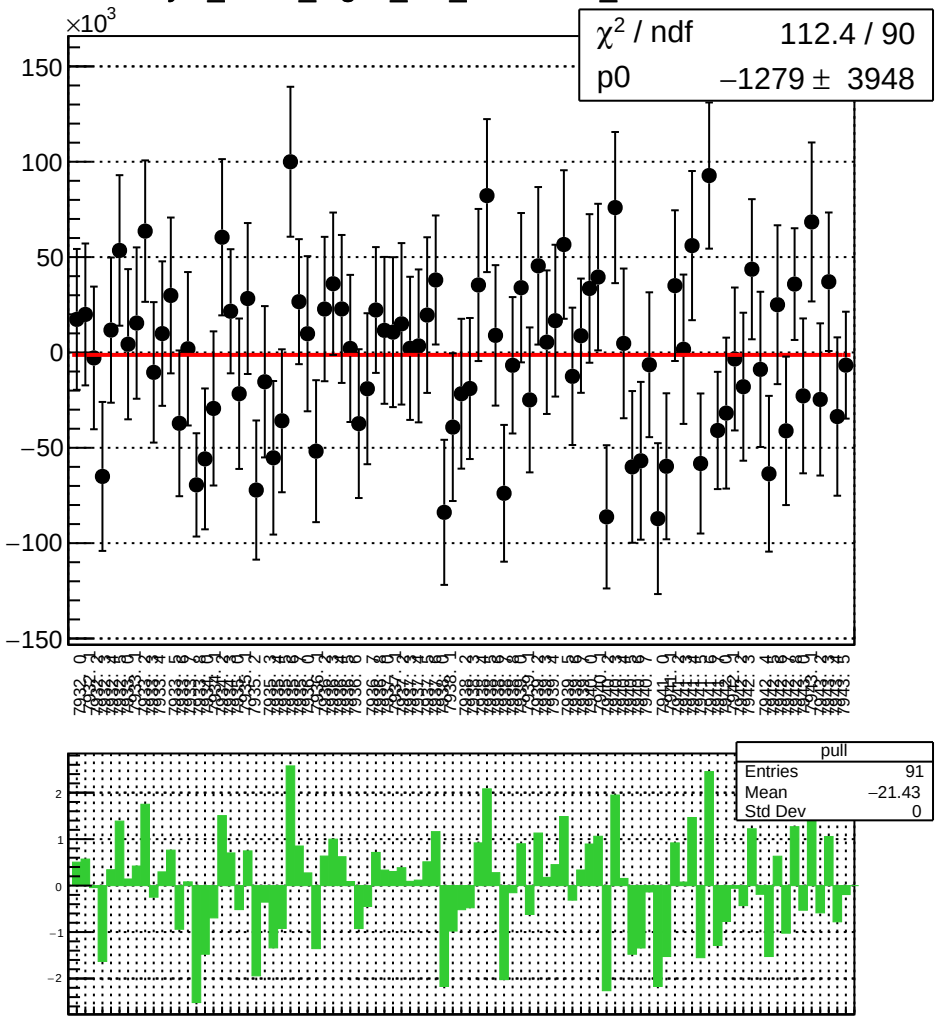
2
4
6
8

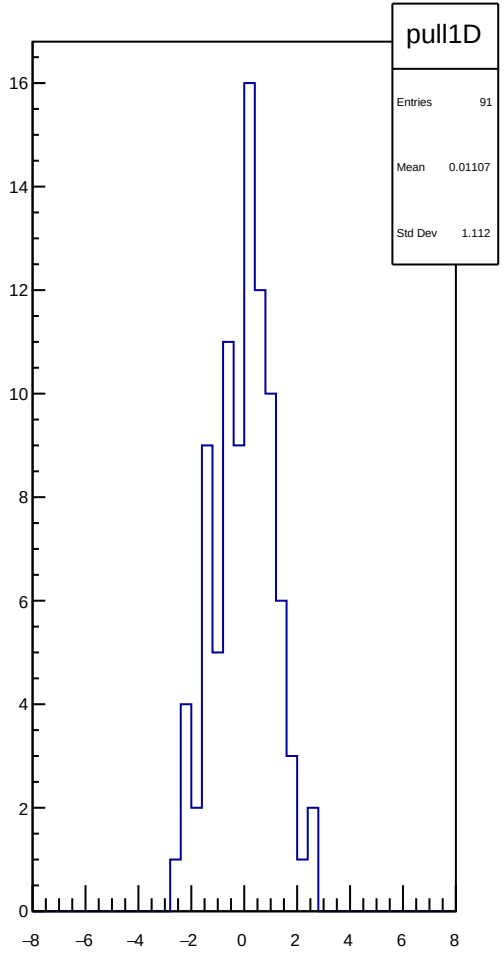

asym_sam3_cor_correction_rms vs run
χ² / ndf 2462 / 90
p0 3688 ± 2.791
4100
4000
3900
3800
3700
3600
3500
3400


eigen_cor_asym_sam3_mean vs run
χ² / ndf 95.76 / 90
p0 1483 ± 476.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 107.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01811
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 1.051e+04 / 90
p0 444 ± 0.3368
600
550
500
450
400


asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 112.4 / 90
p0 −1279 ± 3948
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −21.43
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01107
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
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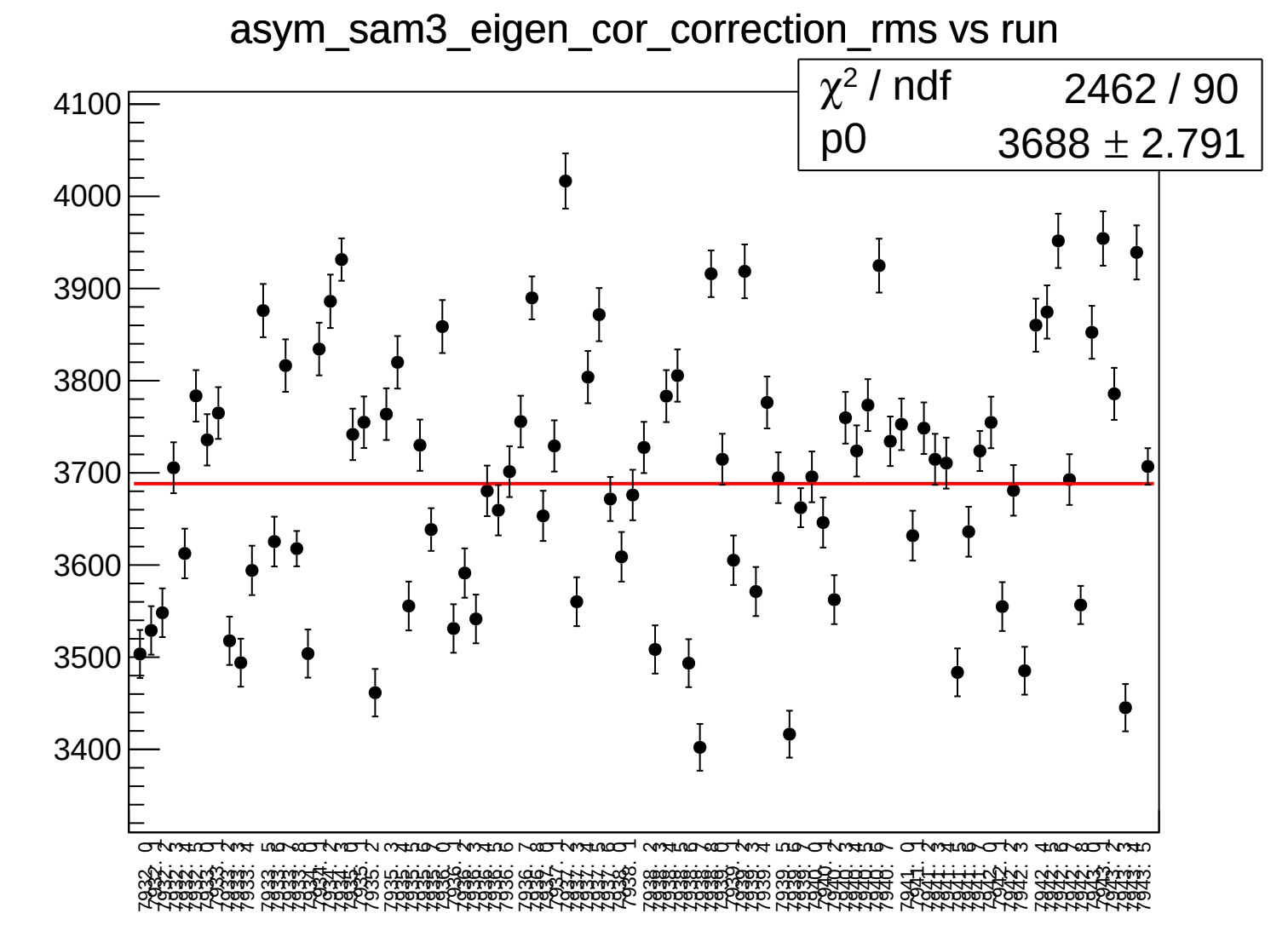
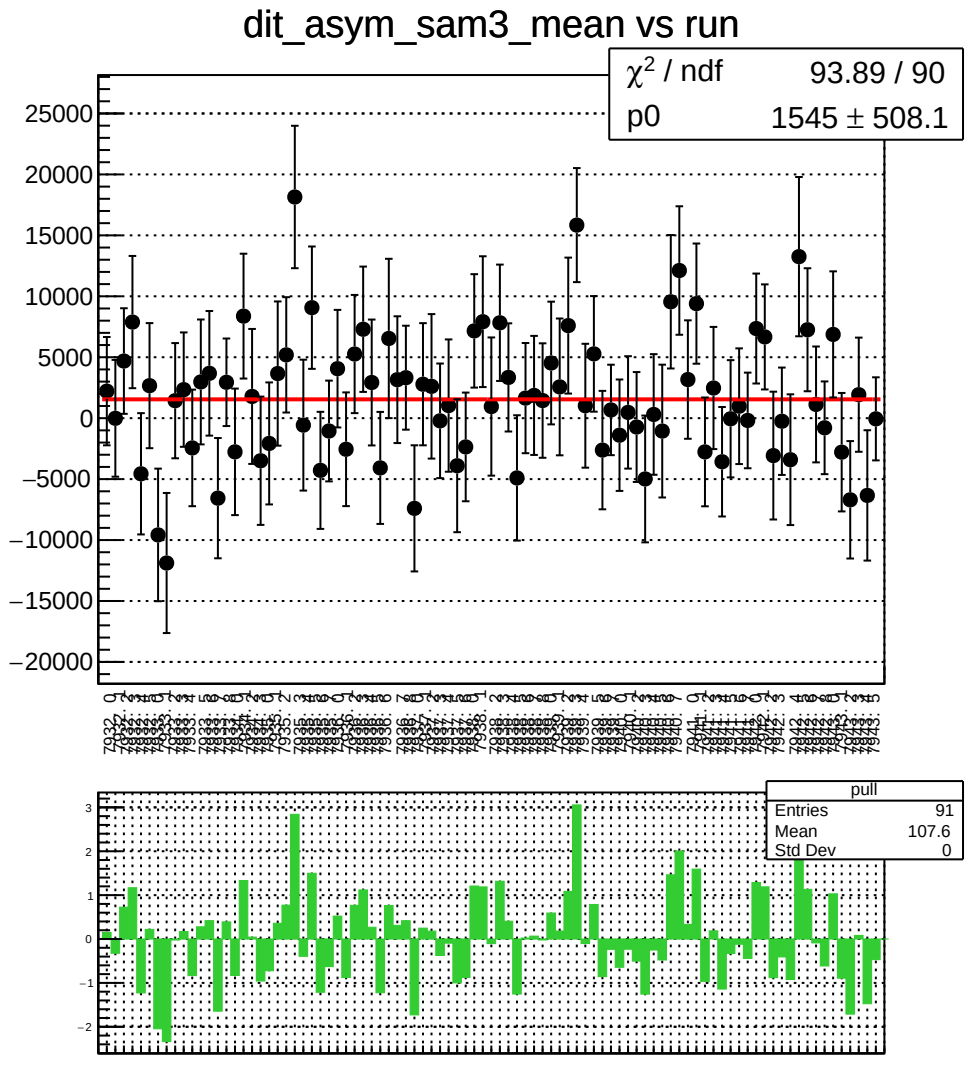
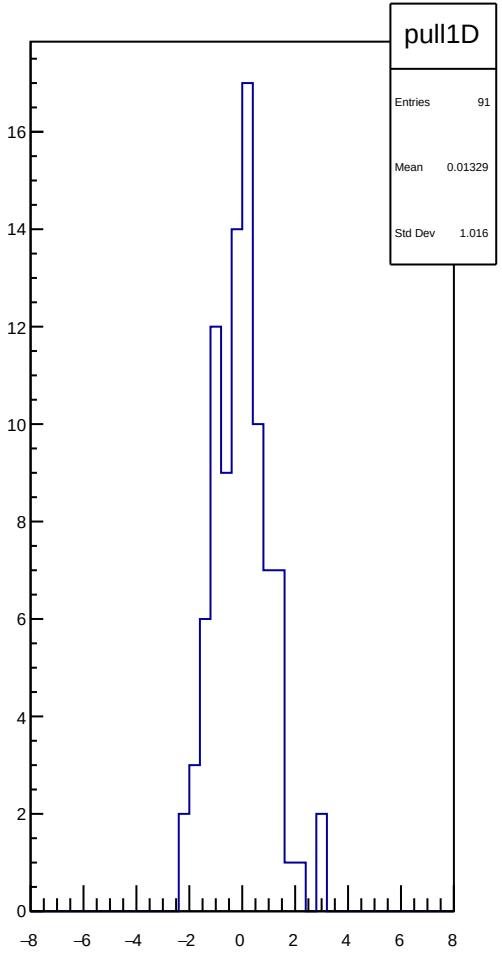
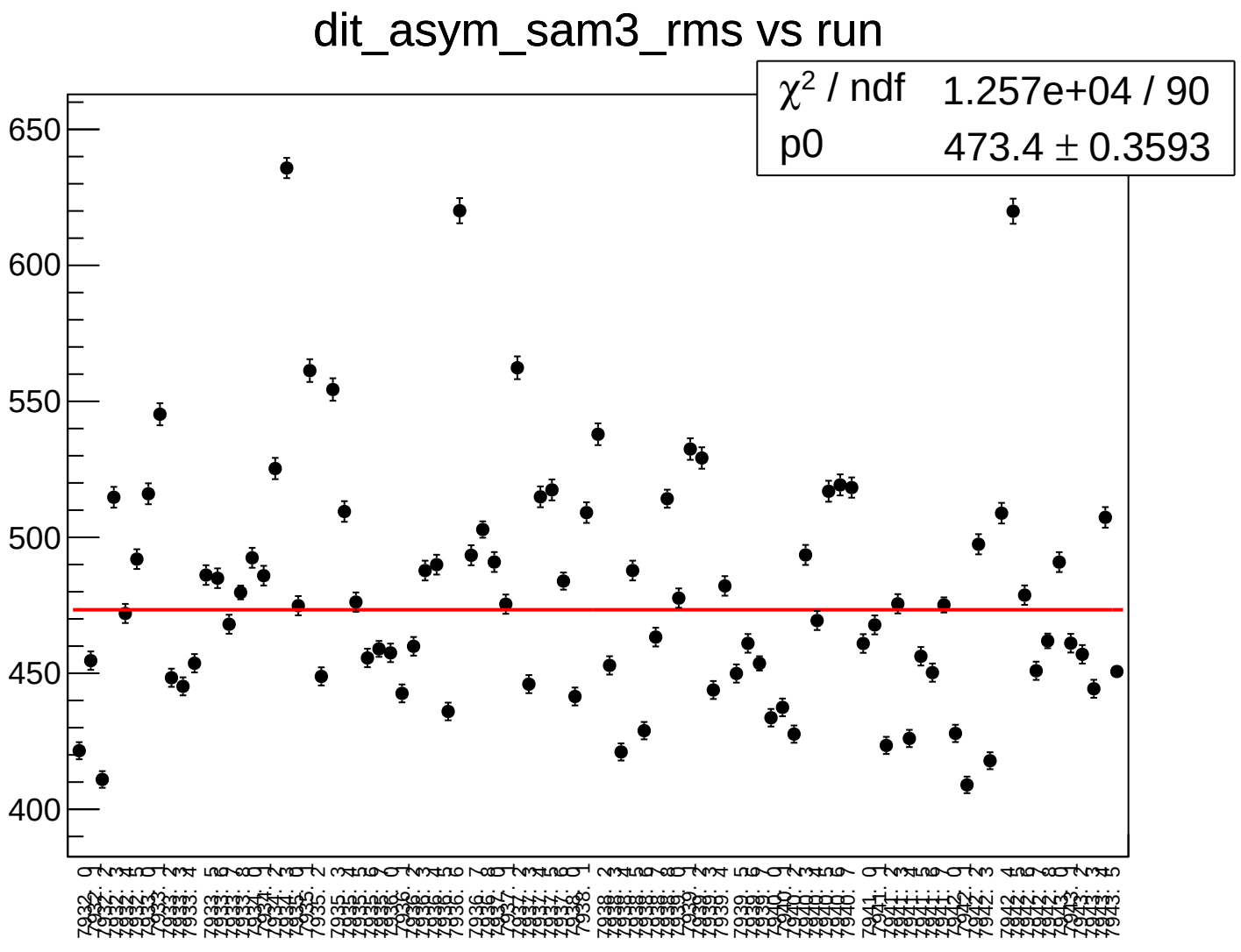
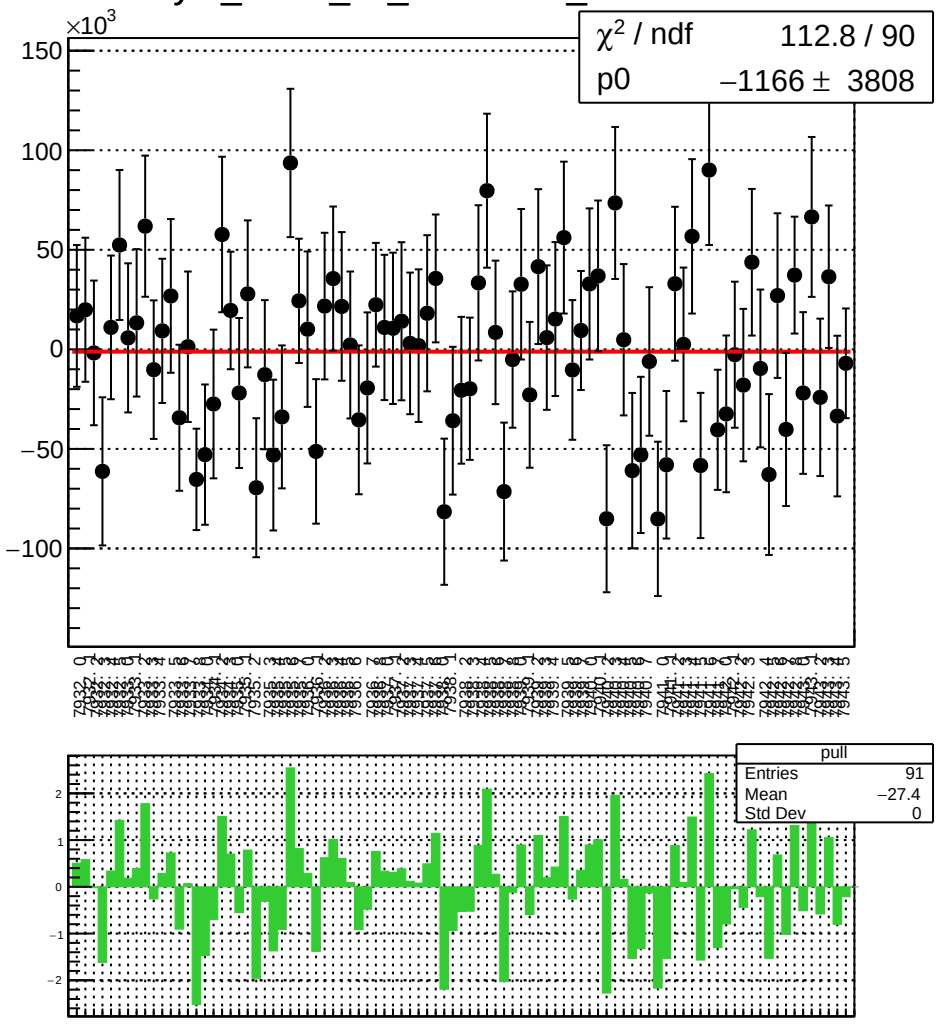
2
4
6
8

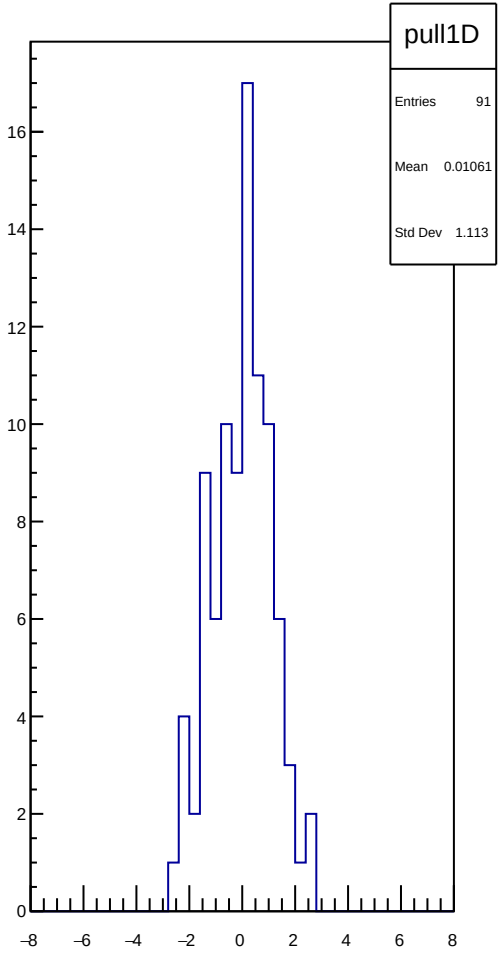

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2462 / 90
p0 3688 ± 2.791
4100
4000
3900
3800
3700
3600
3500
3400

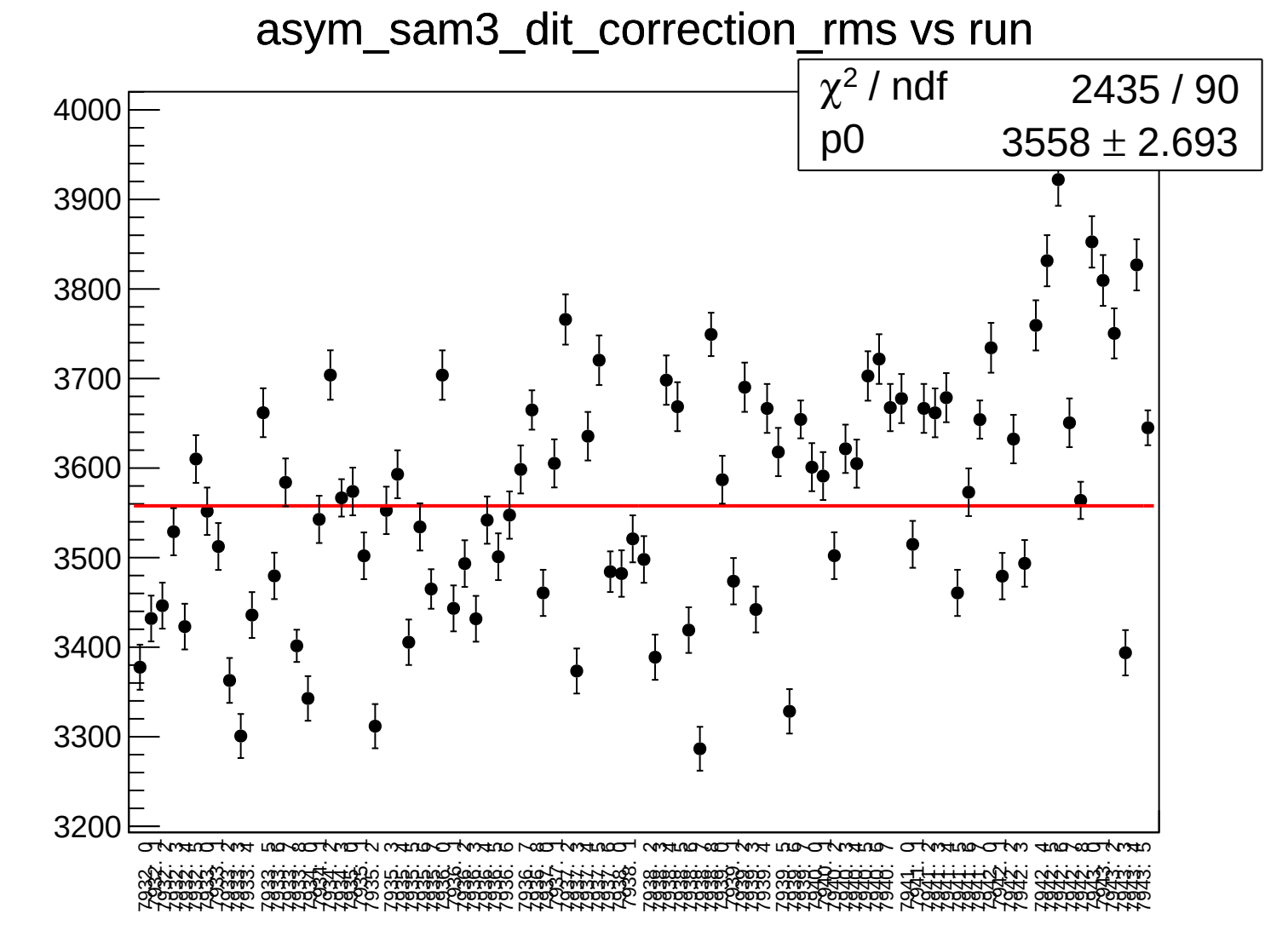

dit_asym_sam3_mean vs run
χ² / ndf 93.89 / 90
p0 1545 ± 508.1
pull
Entries 91
Mean 107.6
Std Dev 0

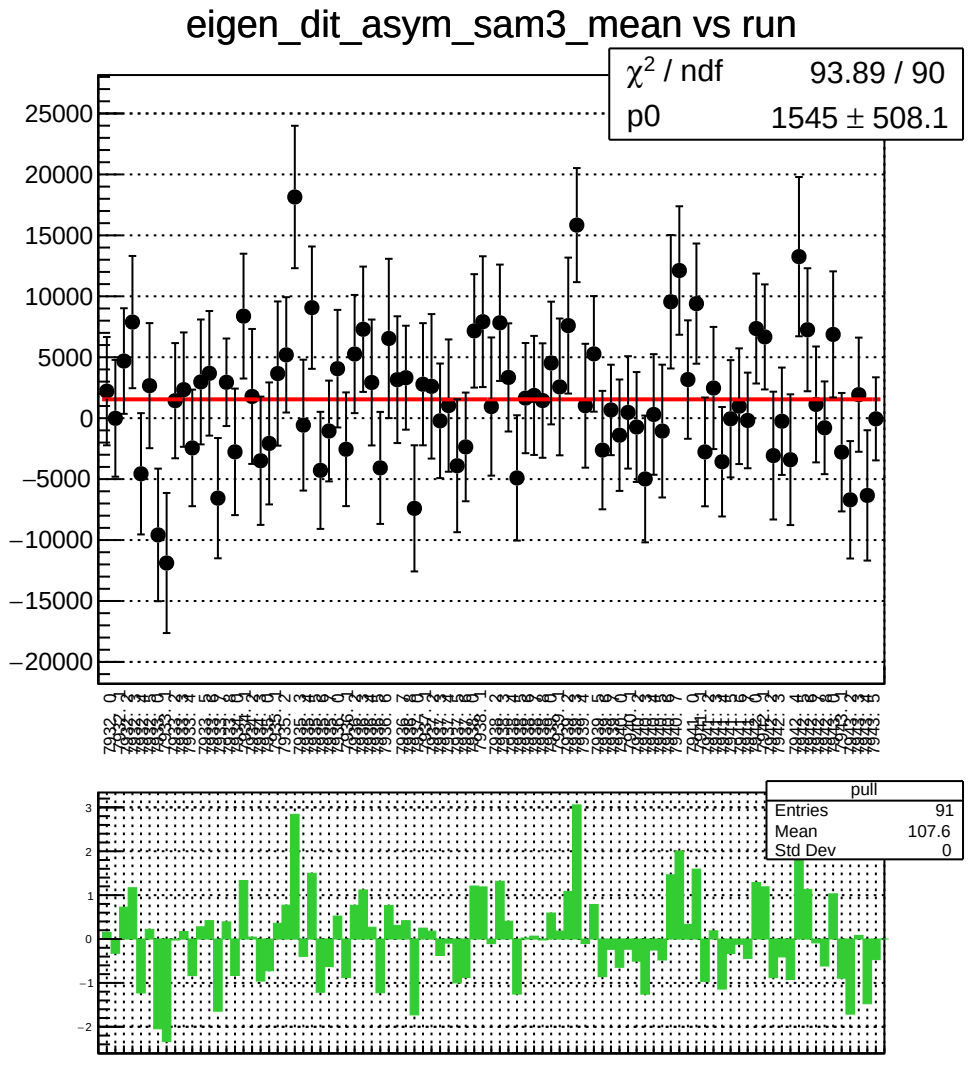

pull1D
Entries 91
Mean 0.01329
Std Dev 1.016

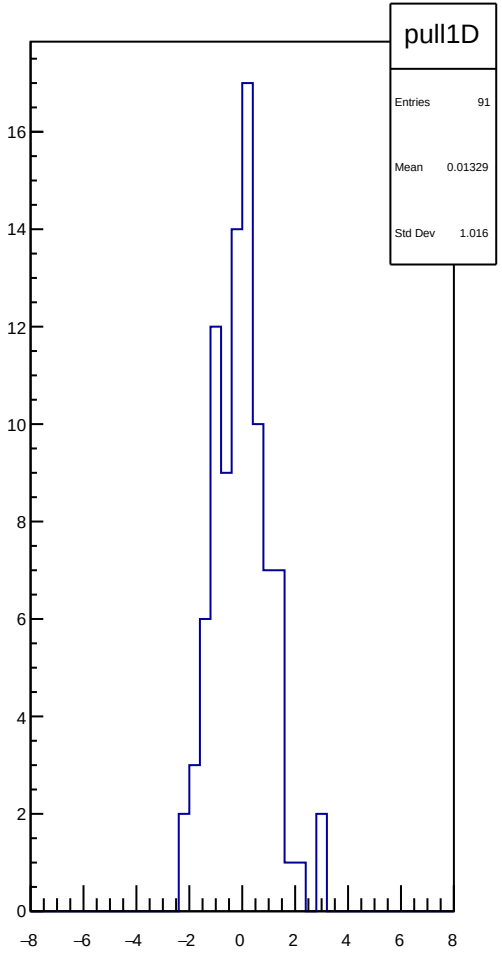

dit_asym_sam3_rms vs run
χ² / ndf 1.257e+04 / 90
p0 473.4 ± 0.3593
650
600
550
500
450
400

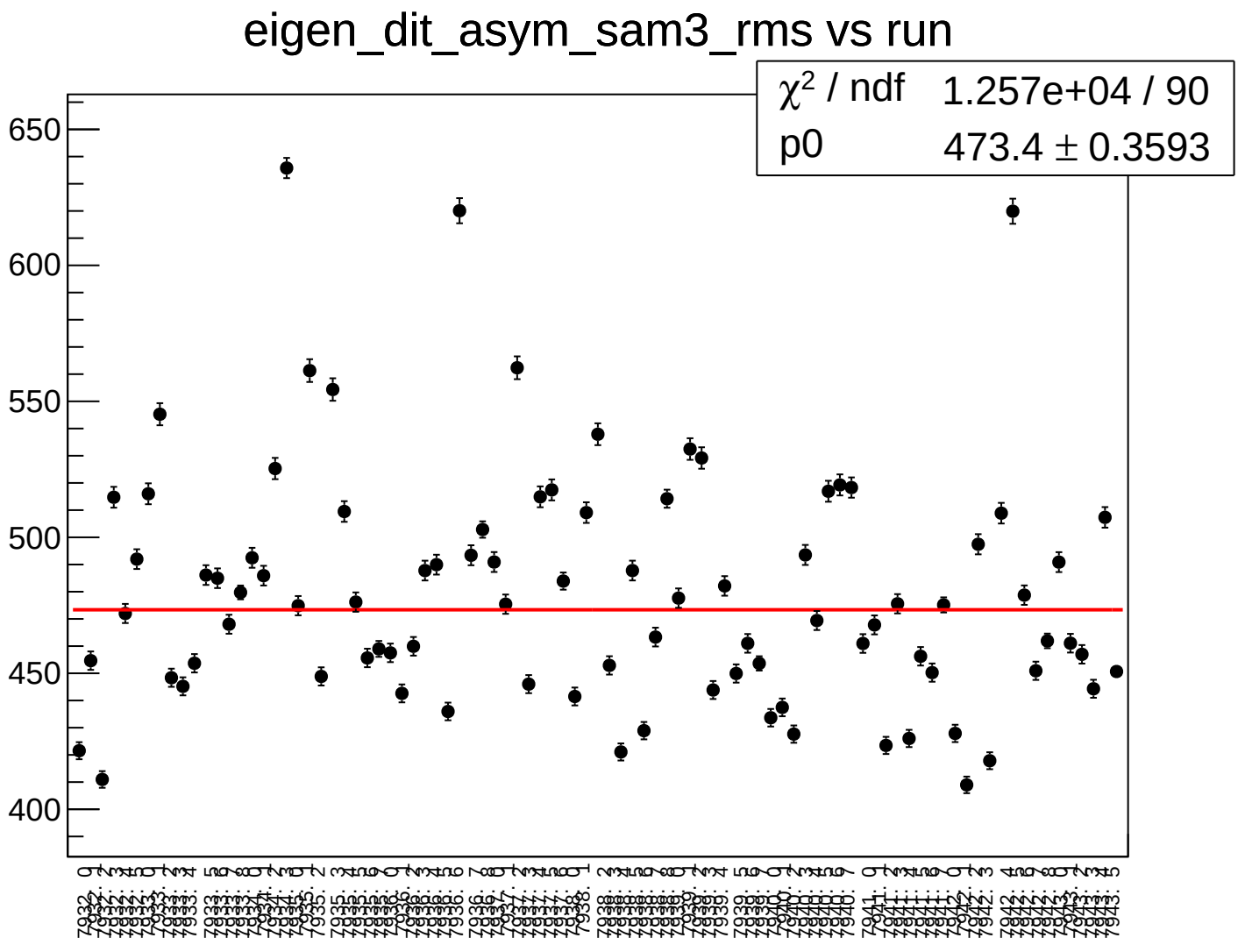

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 112.8 / 90
p0 −1166 ± 3808
150
100
50
0
−50
−100
pull
Entries 91
Mean −27.4
Std Dev 0
2
1
0
−1
−2

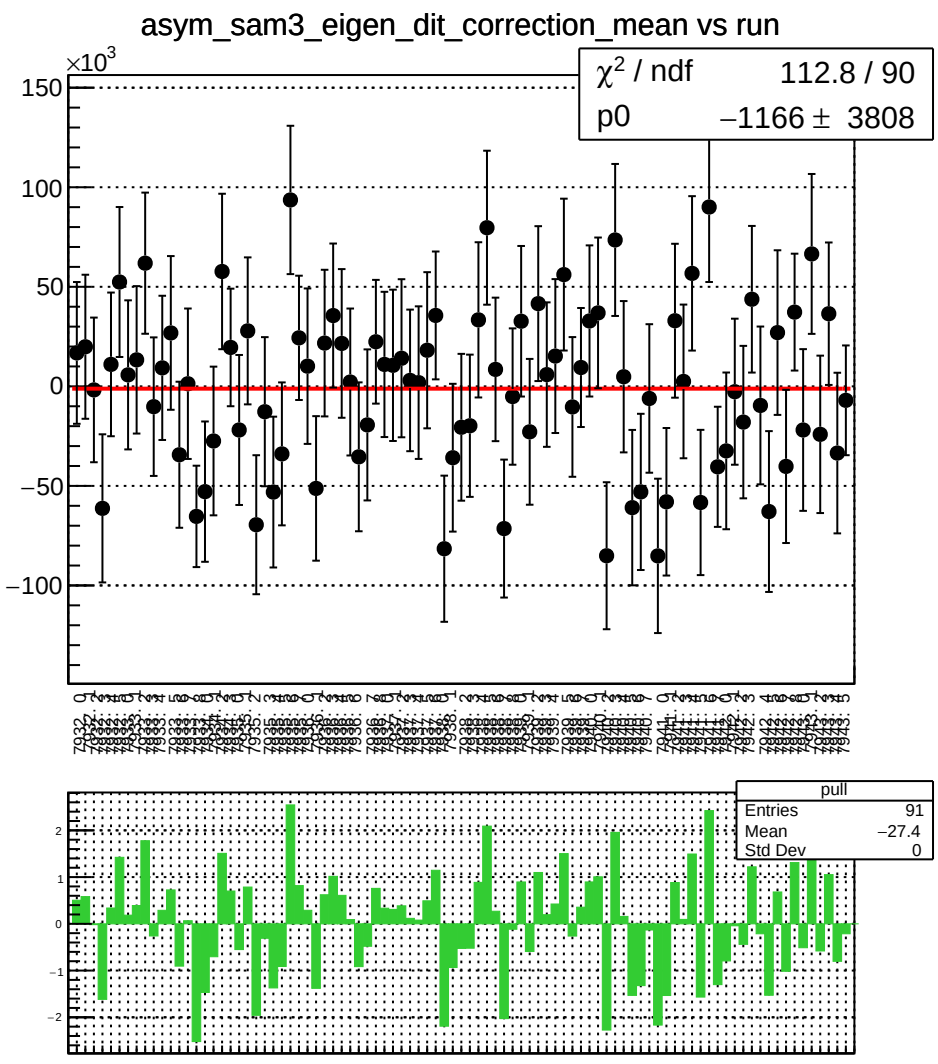

pull1D
Entries 91
Mean 0.01061
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

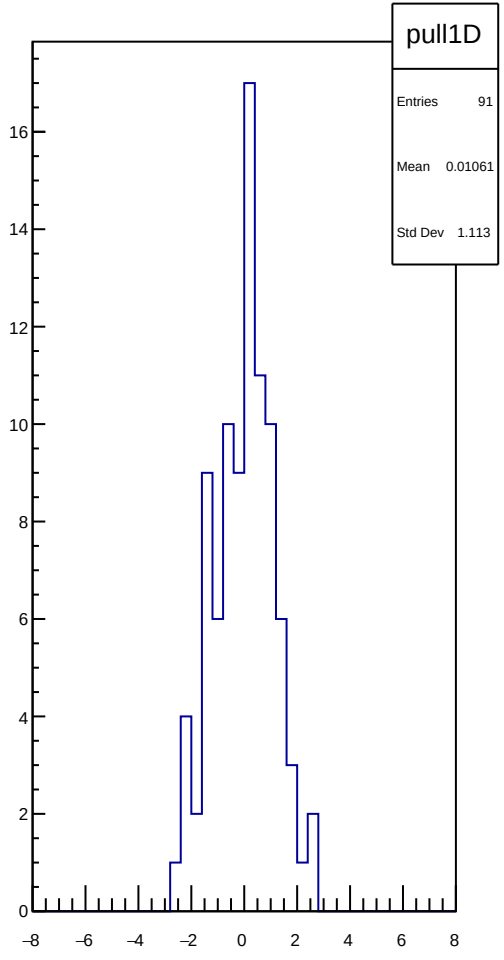

asym_sam3_dit_correction_rms vs run
χ² / ndf 2435 / 90
p0 3558 ± 2.693
4000
3900
3800
3700
3600
3500
3400
3300
3200

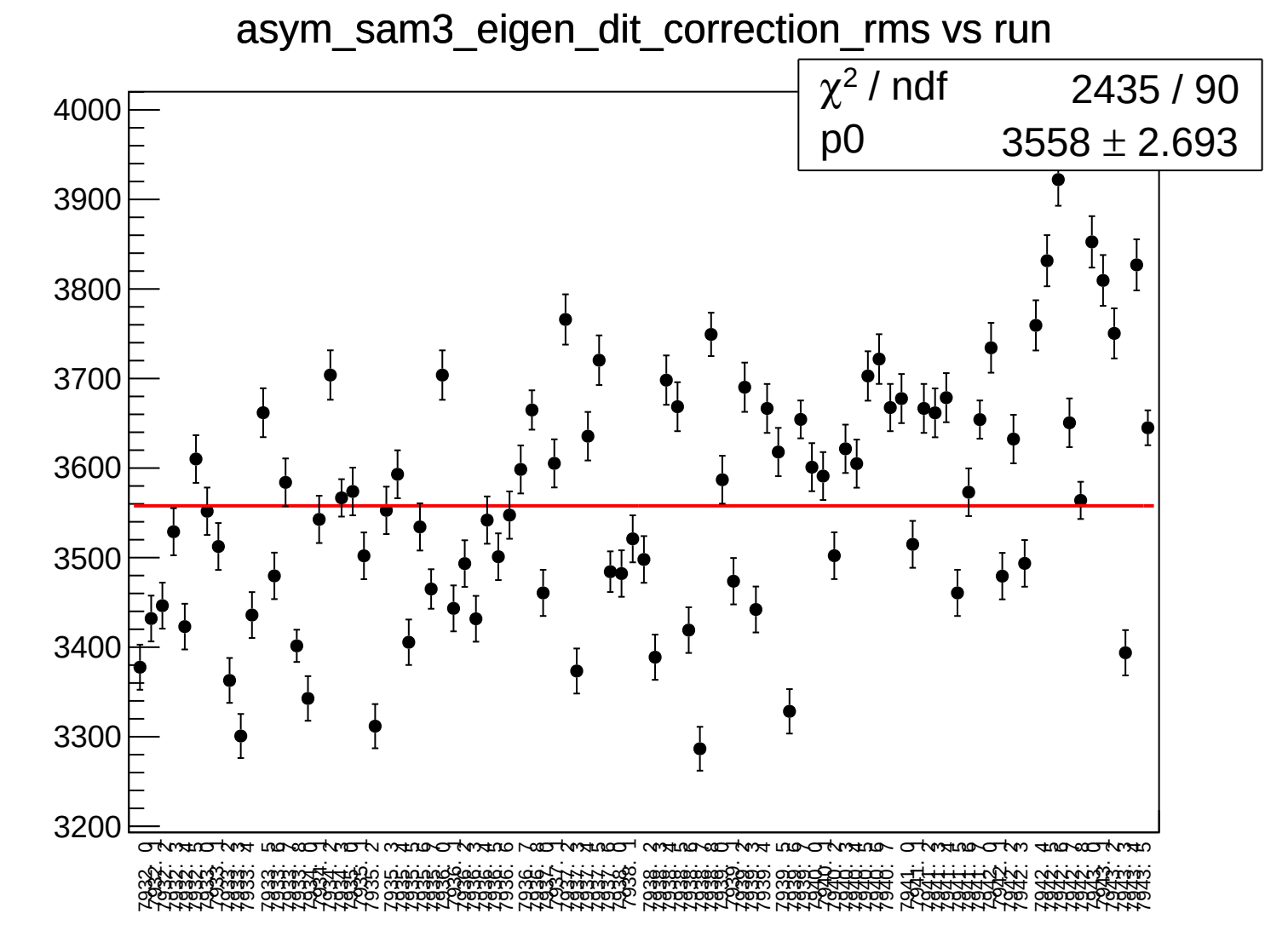

eigen_dit_asym_sam3_mean vs run
χ² / ndf 93.89 / 90
p0 1545 ± 508.1
pull
Entries 91
Mean 107.6
Std Dev 0

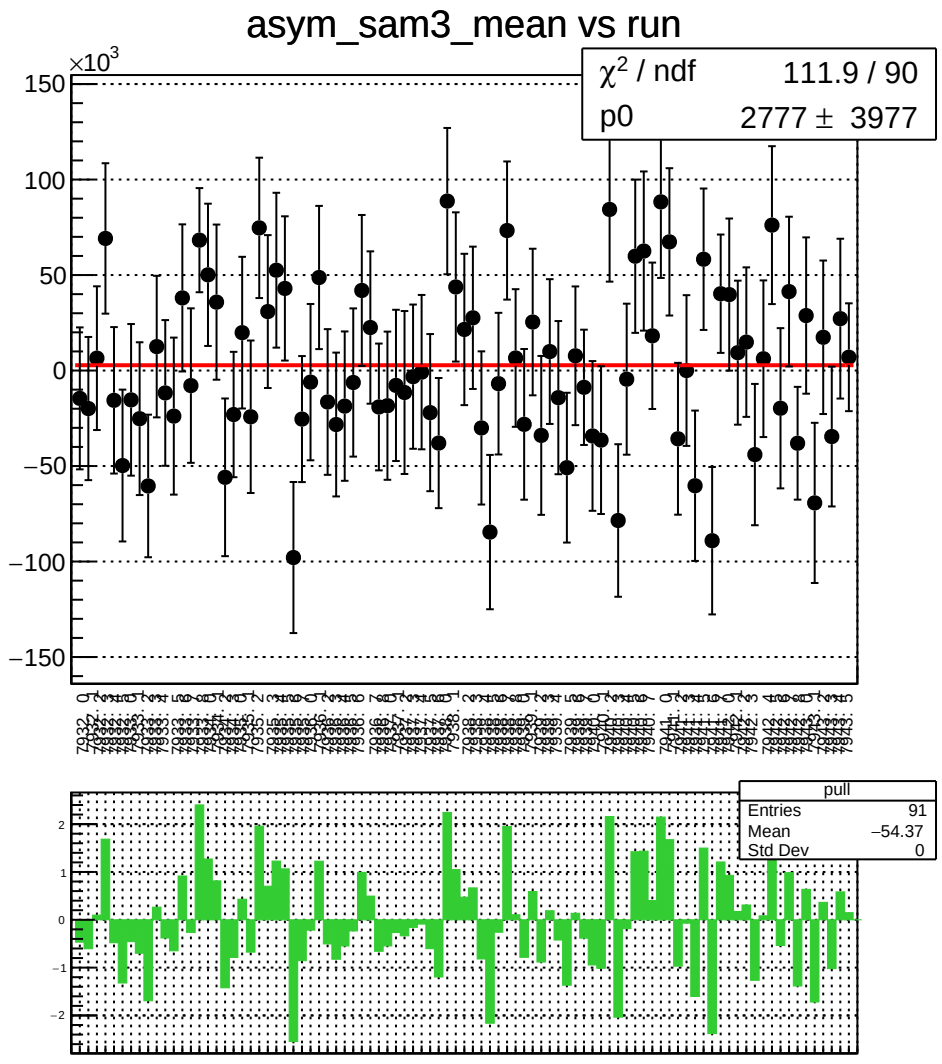

pull1D
Entries 91
Mean 0.01329
Std Dev 1.016

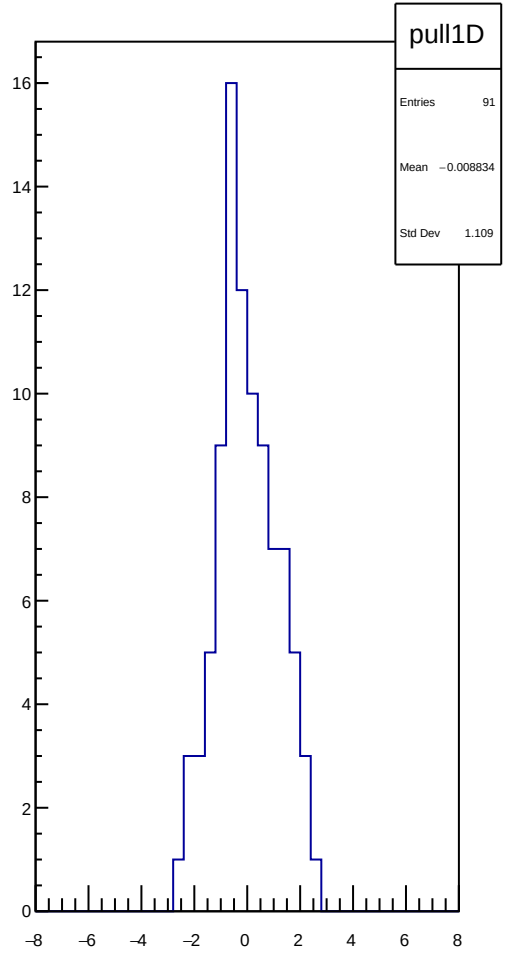

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.257e+04 / 90
p0 473.4 ± 0.3593
650
600
550
500
450
400

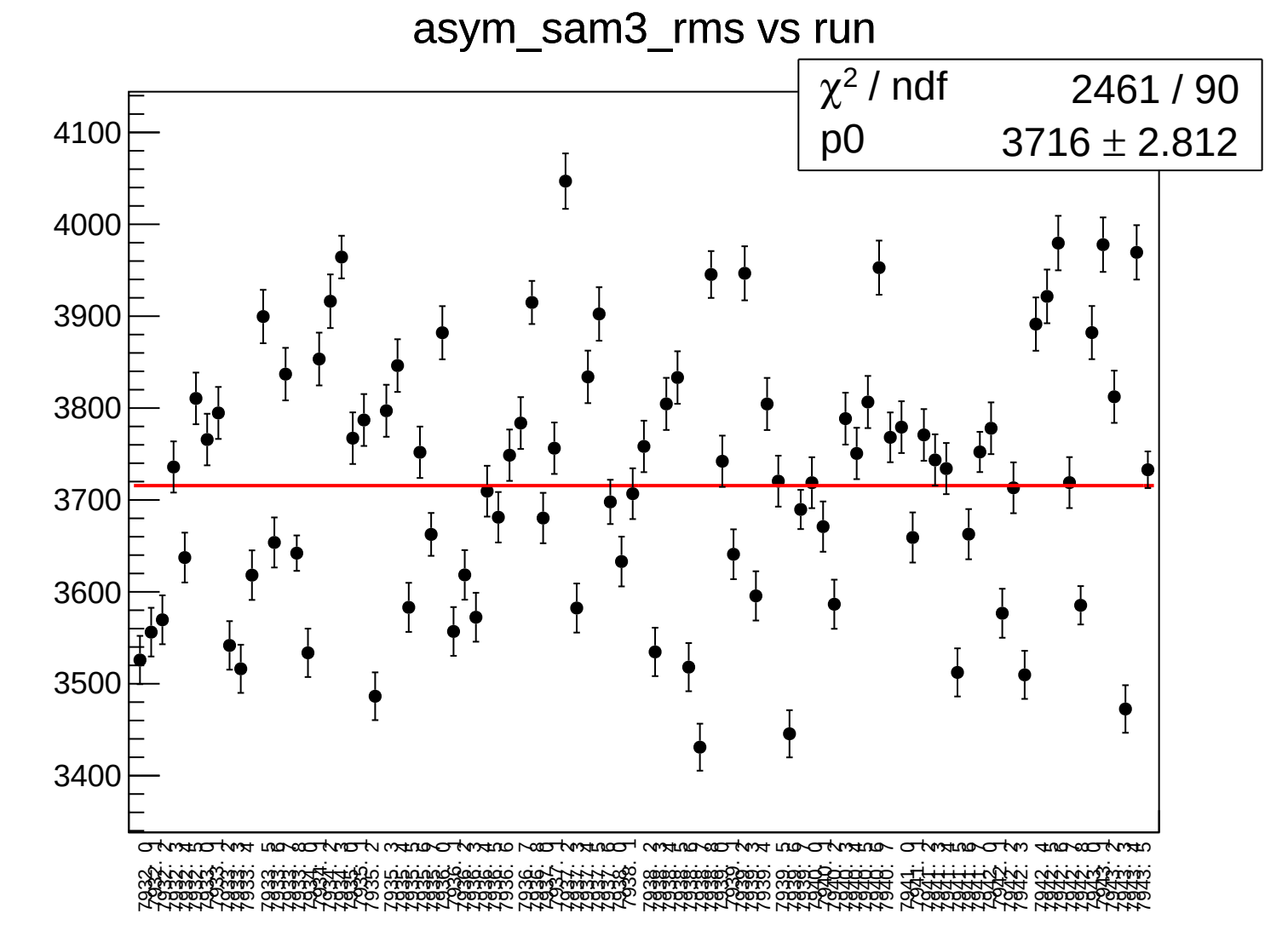

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 112.8 / 90
p0 −1166 ± 3808
150
100
50
0
−50
−100
pull
Entries 91
Mean −27.4
Std Dev 0
2
1
0
−1
−2

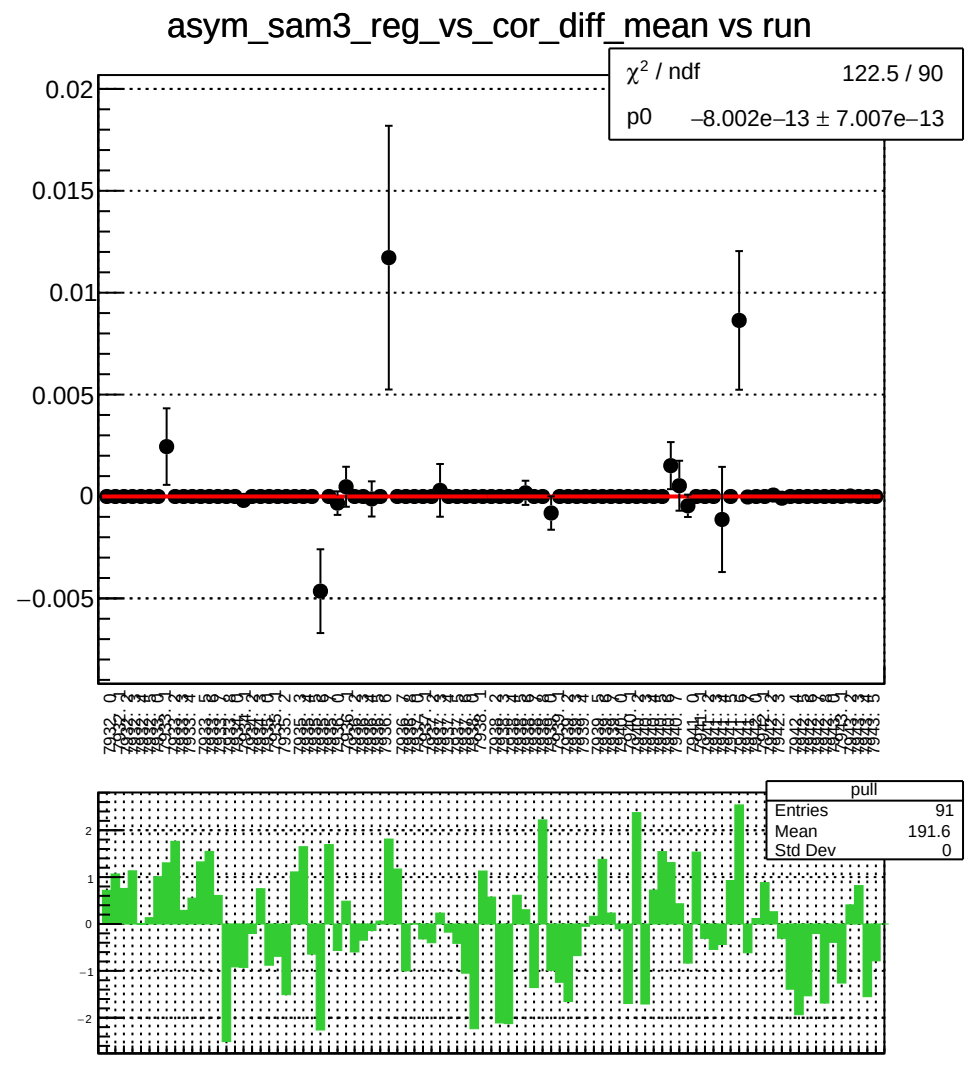

pull1D
Entries 91
Mean 0.01061
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

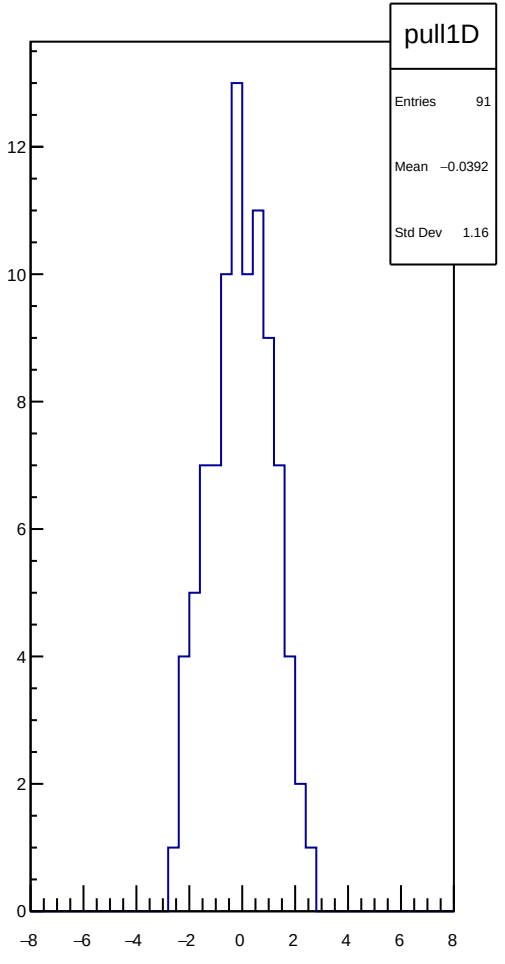

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2435 / 90
p0 3558 ± 2.693
4000
3900
3800
3700
3600
3500
3400
3300
3200

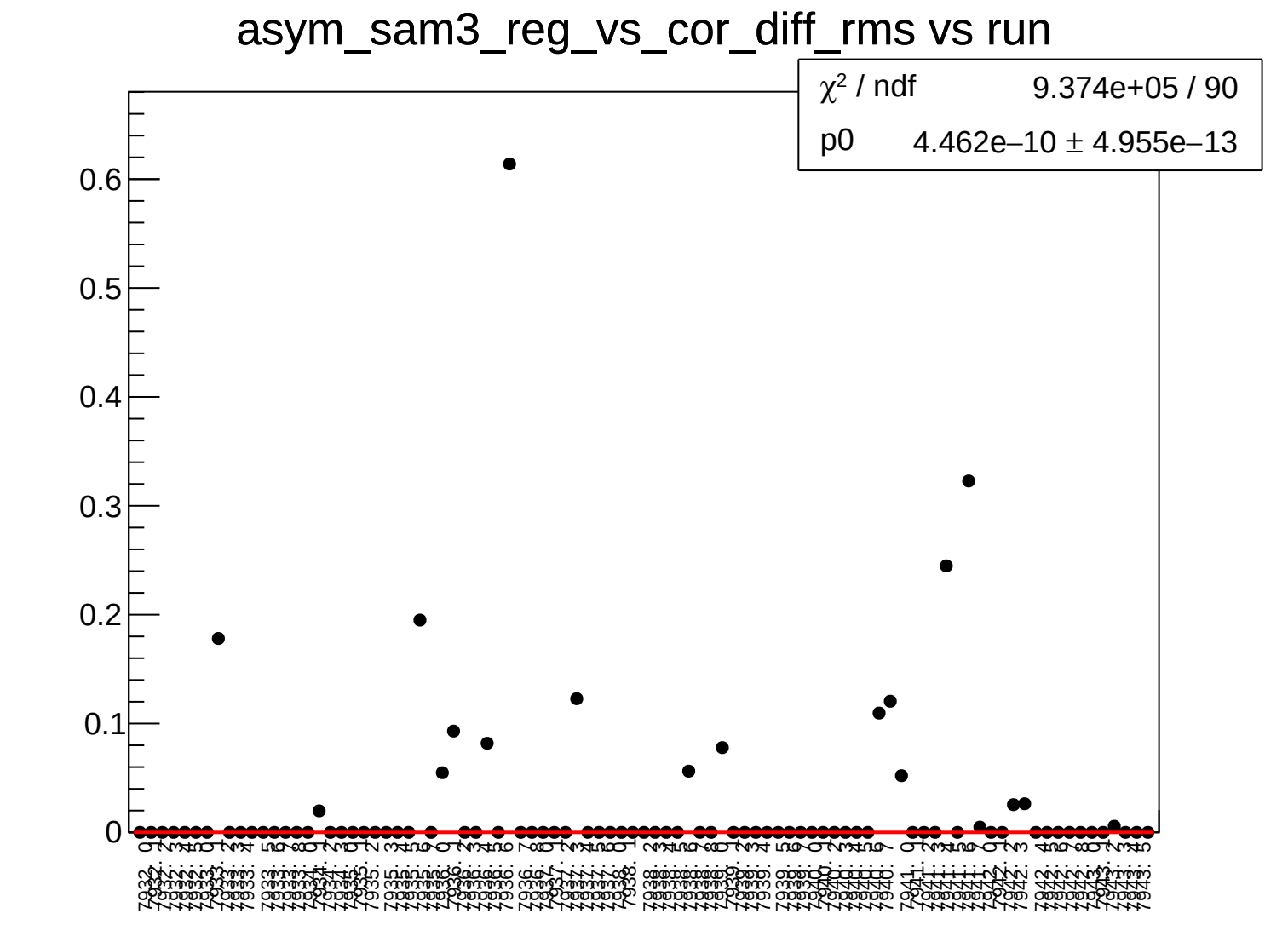

asym_sam3_mean vs run
×10^3
χ^2 / ndf 111.9 / 90
p0 2777 ± 3977
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −54.37
Std Dev 0
2
1
0
−1
−2

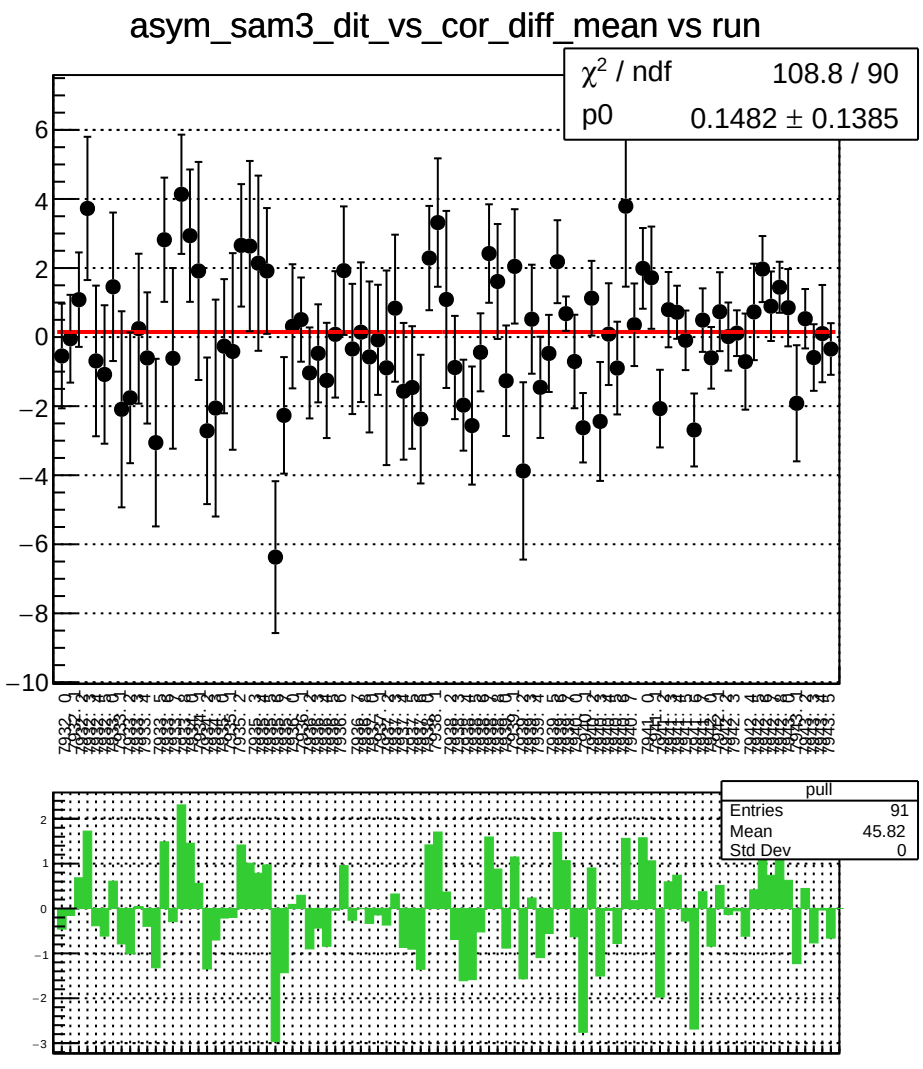

pull1D
Entries 91
Mean −0.008834
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

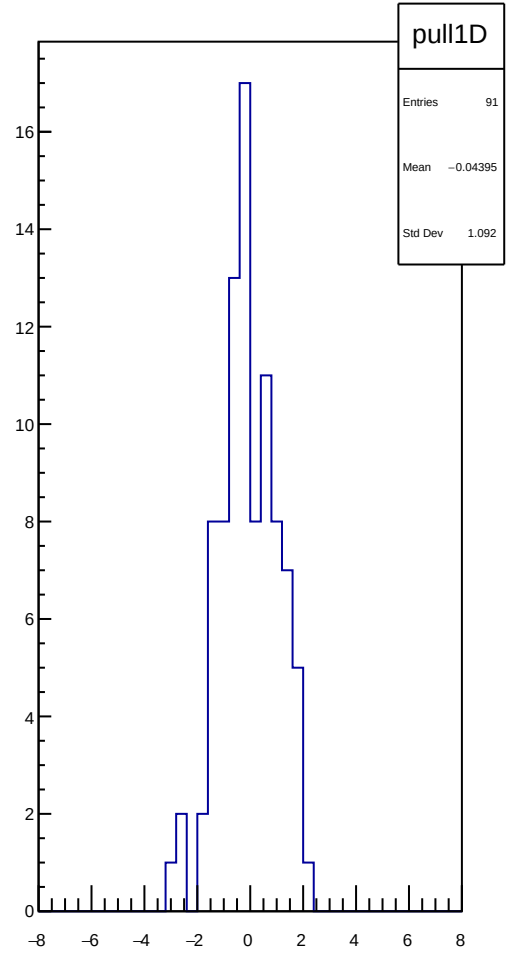

asym_sam3_rms vs run
χ^2 / ndf 2461 / 90
p0 3716 ± 2.812
4100
4000
3900
3800
3700
3600
3500
3400

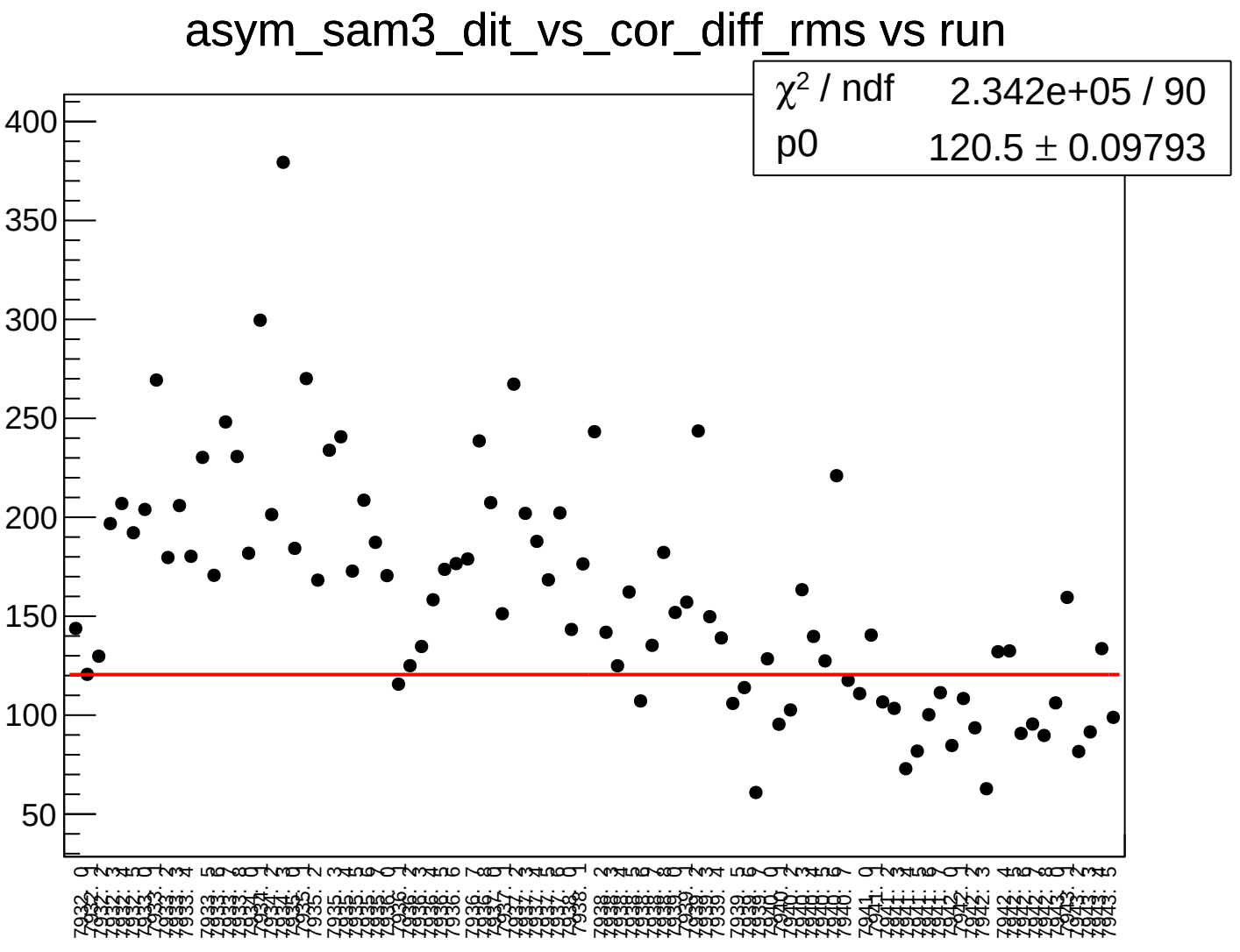

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 122.5 / 90
p0 −8.002e−13 ± 7.007e−13
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 91
Mean 191.6
Std Dev 0
2
1
0
−1
−2

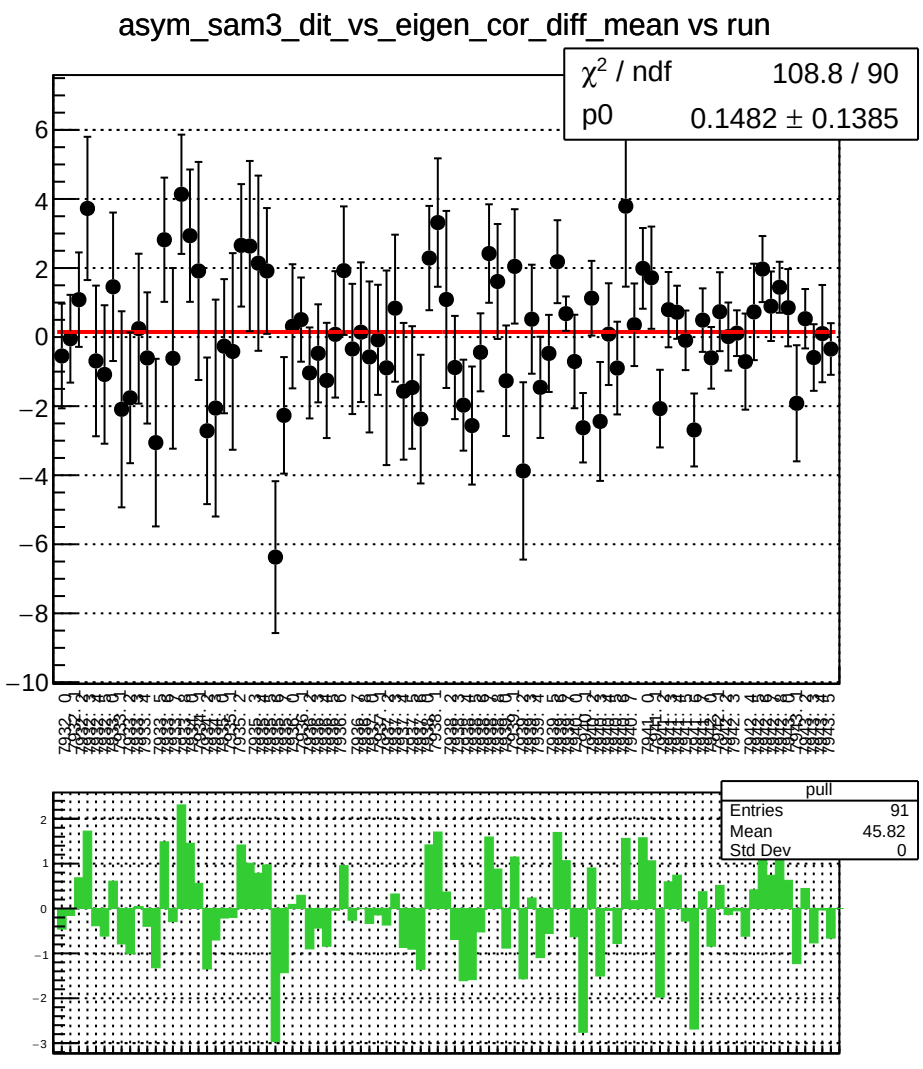

pull1D
Entries 91
Mean −0.0392
Std Dev 1.16
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

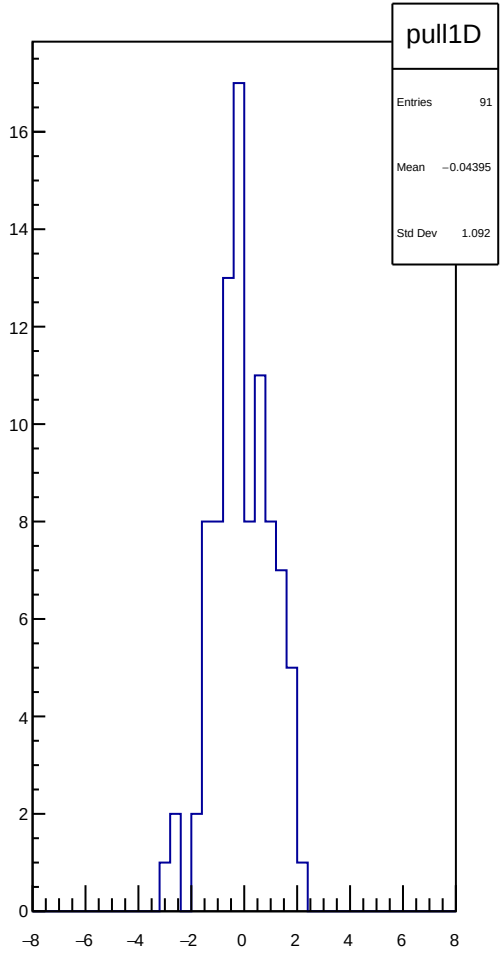

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.374e+05 / 90
p0 4.462e−10 ± 4.955e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

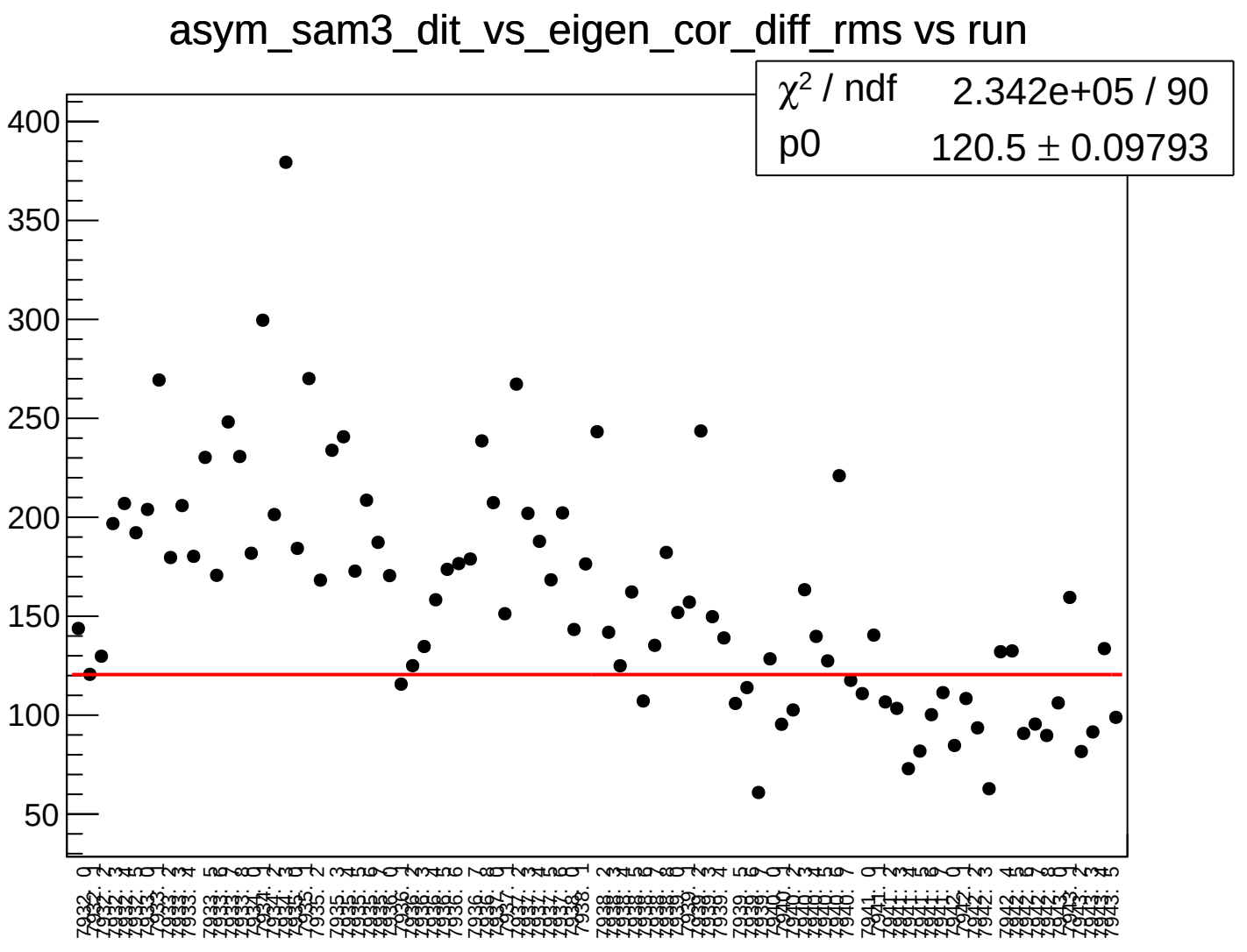

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 90
p0 0.1482 ± 0.1385
pull
Entries 91
Mean 45.82
Std Dev 0

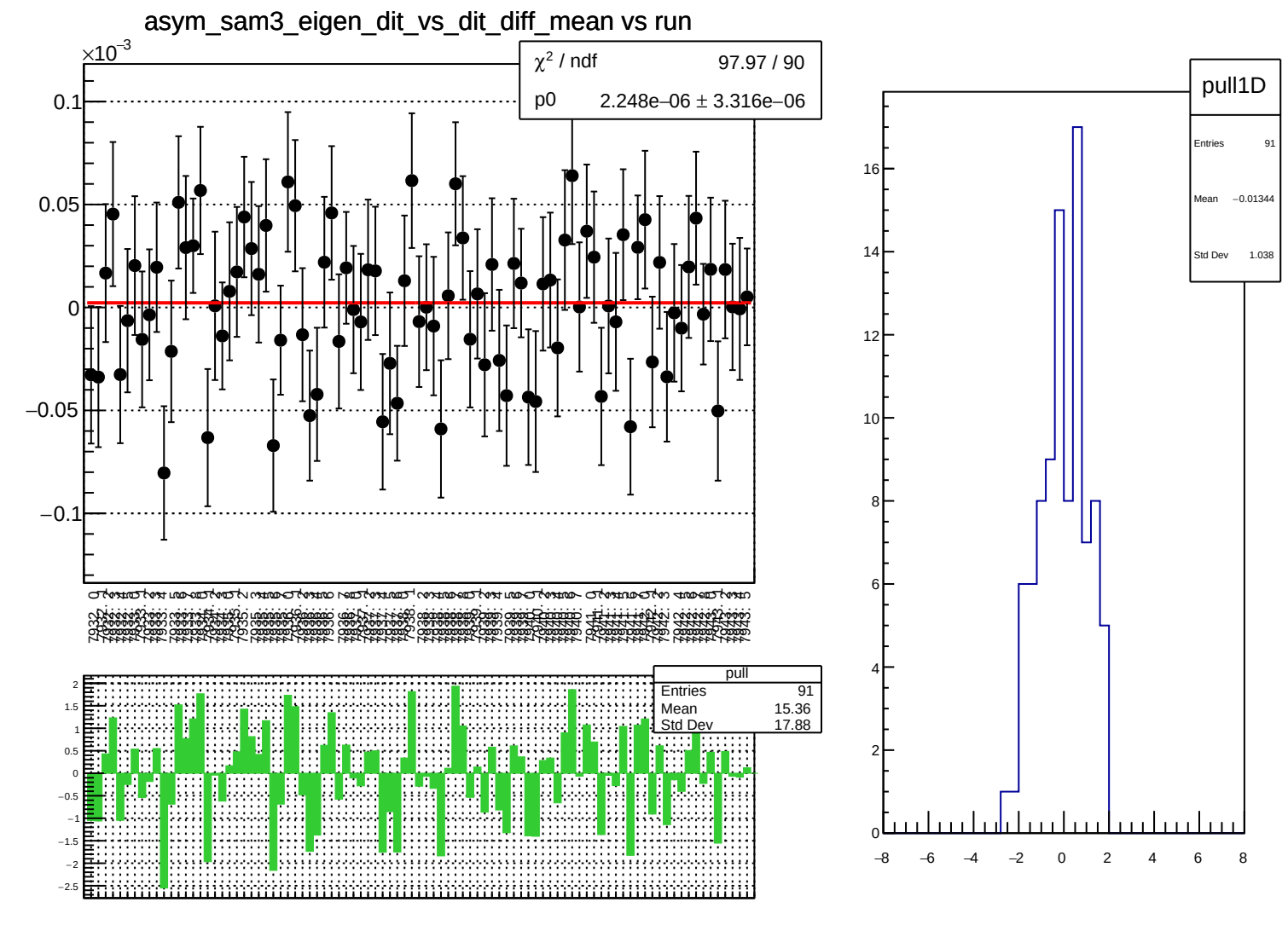

pull1D
Entries 91
Mean −0.04395
Std Dev 1.092

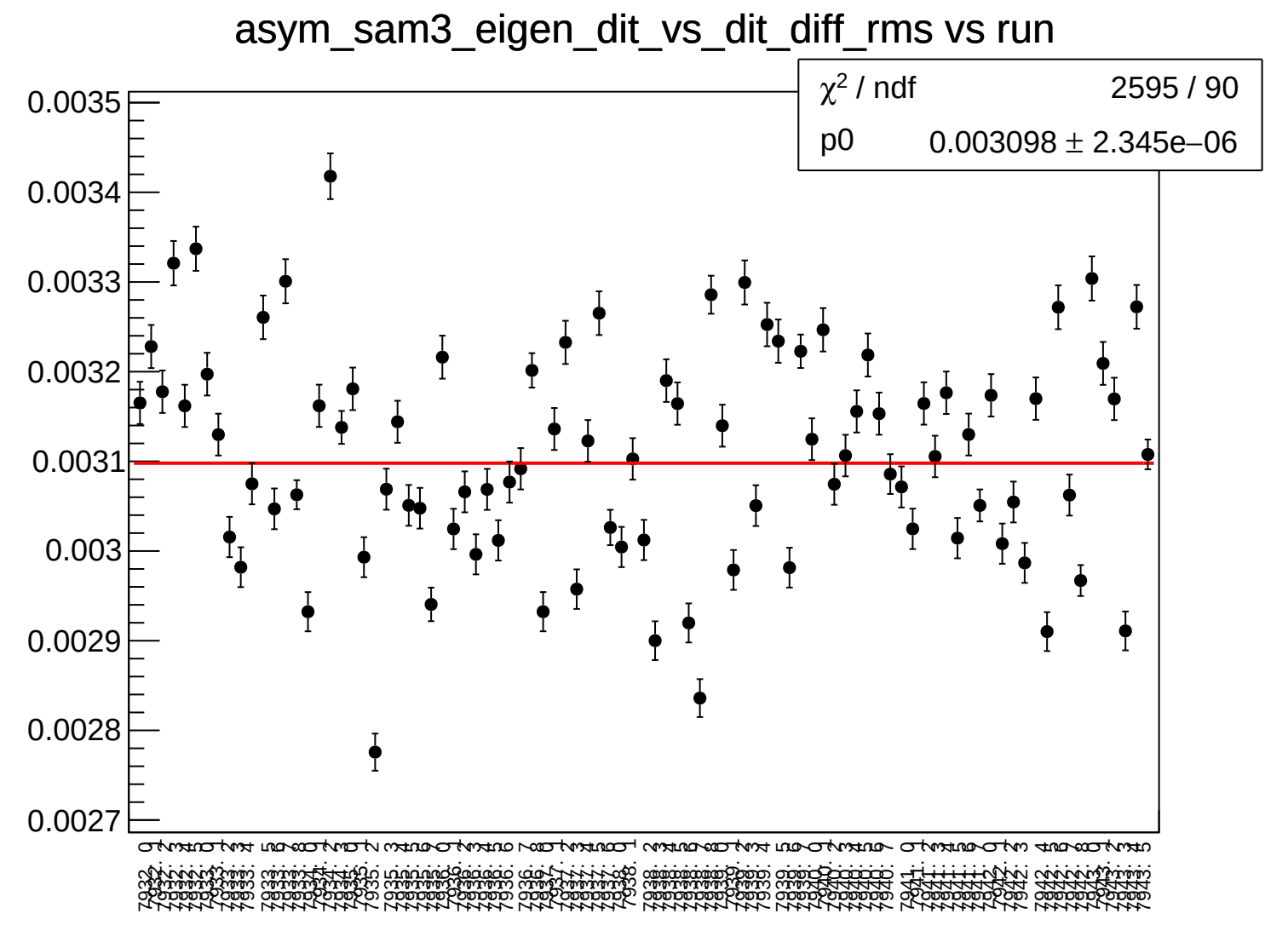

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 90
p0 120.5 ± 0.09793
400
350
300
250
200
150
100
50

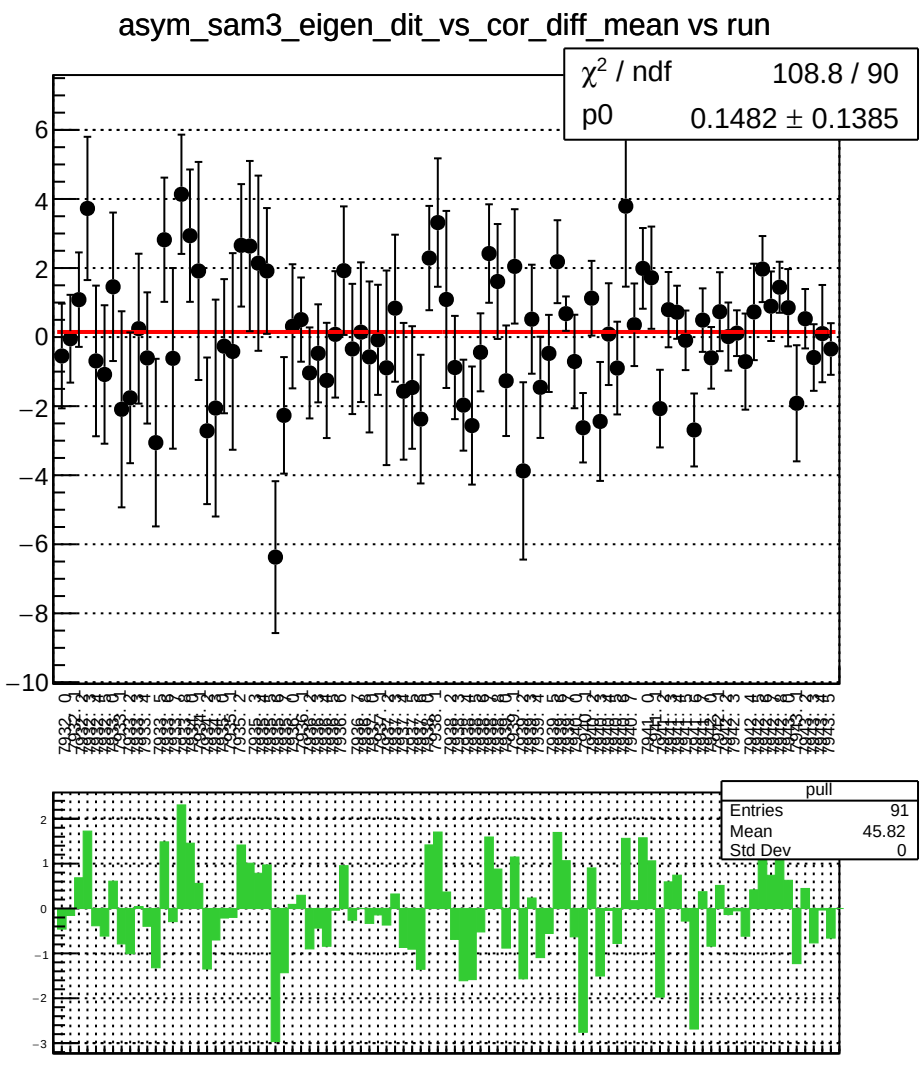

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 90
p0 0.1482 ± 0.1385
pull
Entries 91
Mean 45.82
Std Dev 0

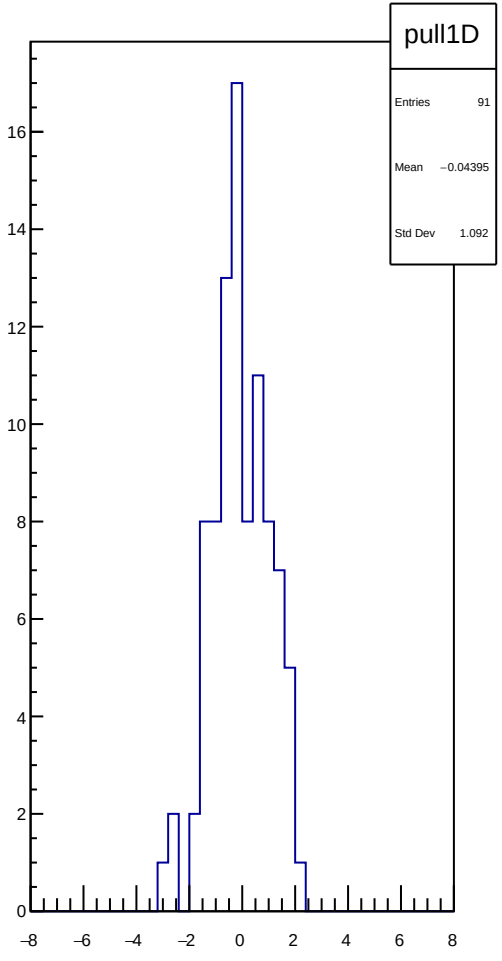

pull1D
Entries 91
Mean −0.04395
Std Dev 1.092

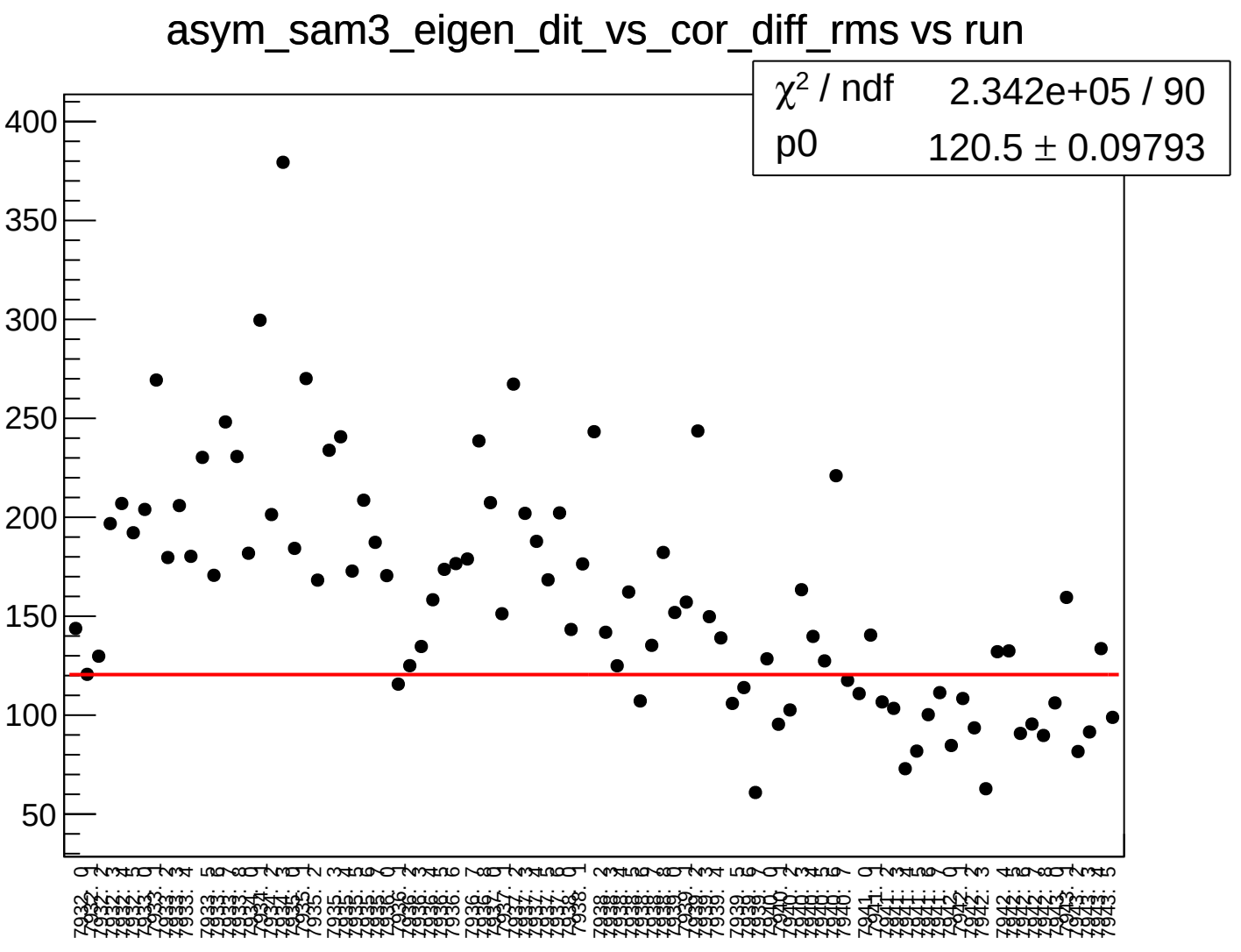

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 90
p0 120.5 ± 0.09793
400
350
300
250
200
150
100
50

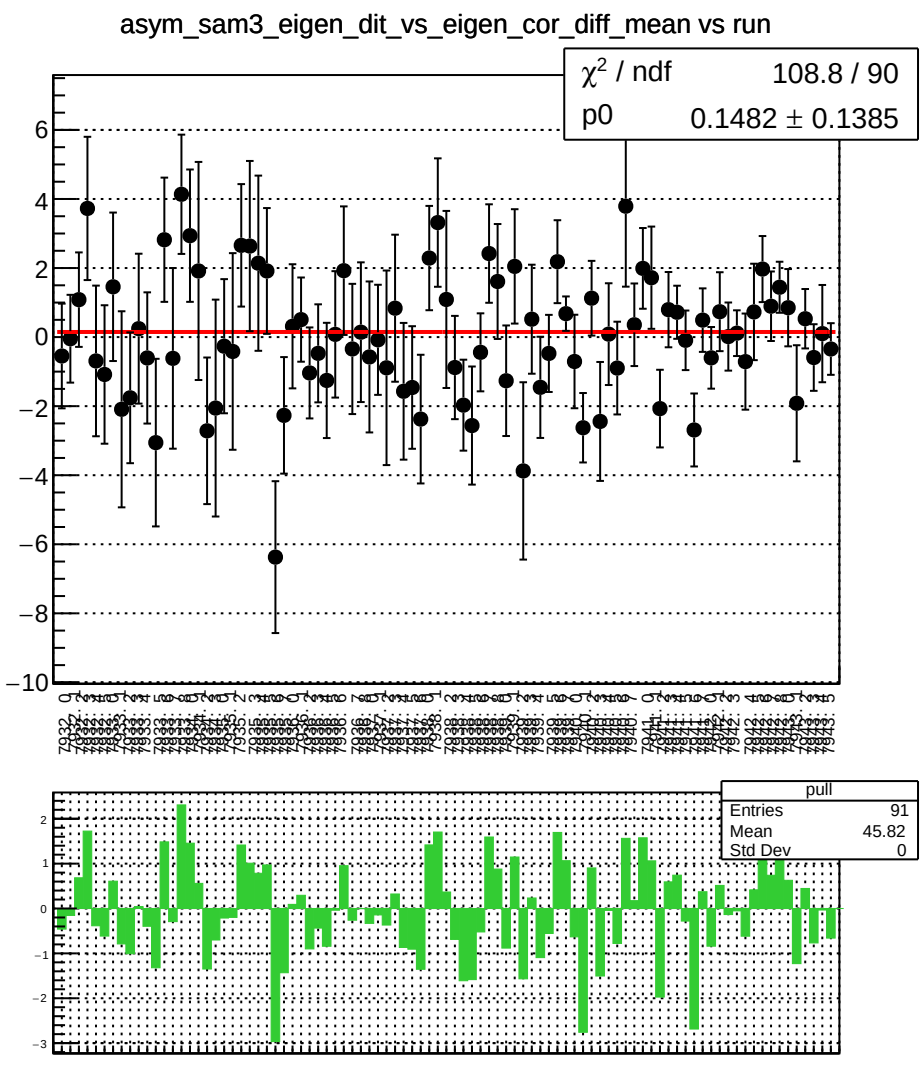

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.97 / 90
p0 2.248e−06 ± 3.316e−06
pull
Entries 91
Mean 15.36
Std Dev 17.88
pull1D
Entries 91
Mean −0.01344
Std Dev 1.038

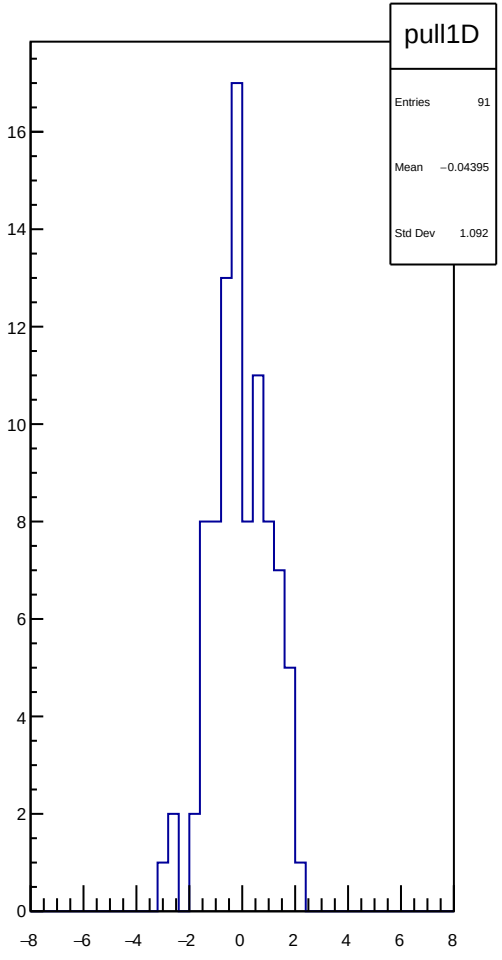

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2595 / 90
p0 0.003098 ± 2.345e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

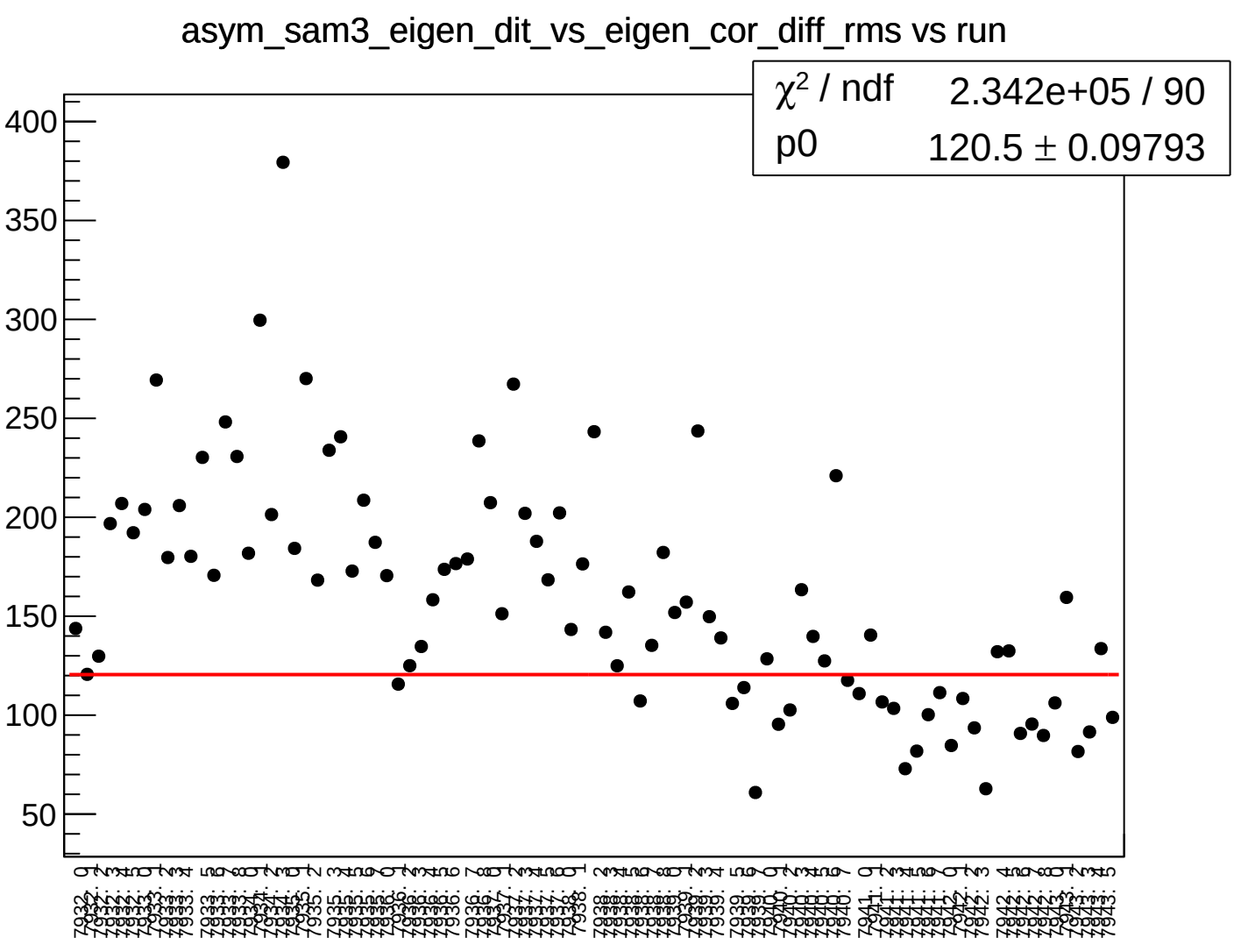

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 90
p0 0.1482 ± 0.1385
pull
Entries 91
Mean 45.82
Std Dev 0

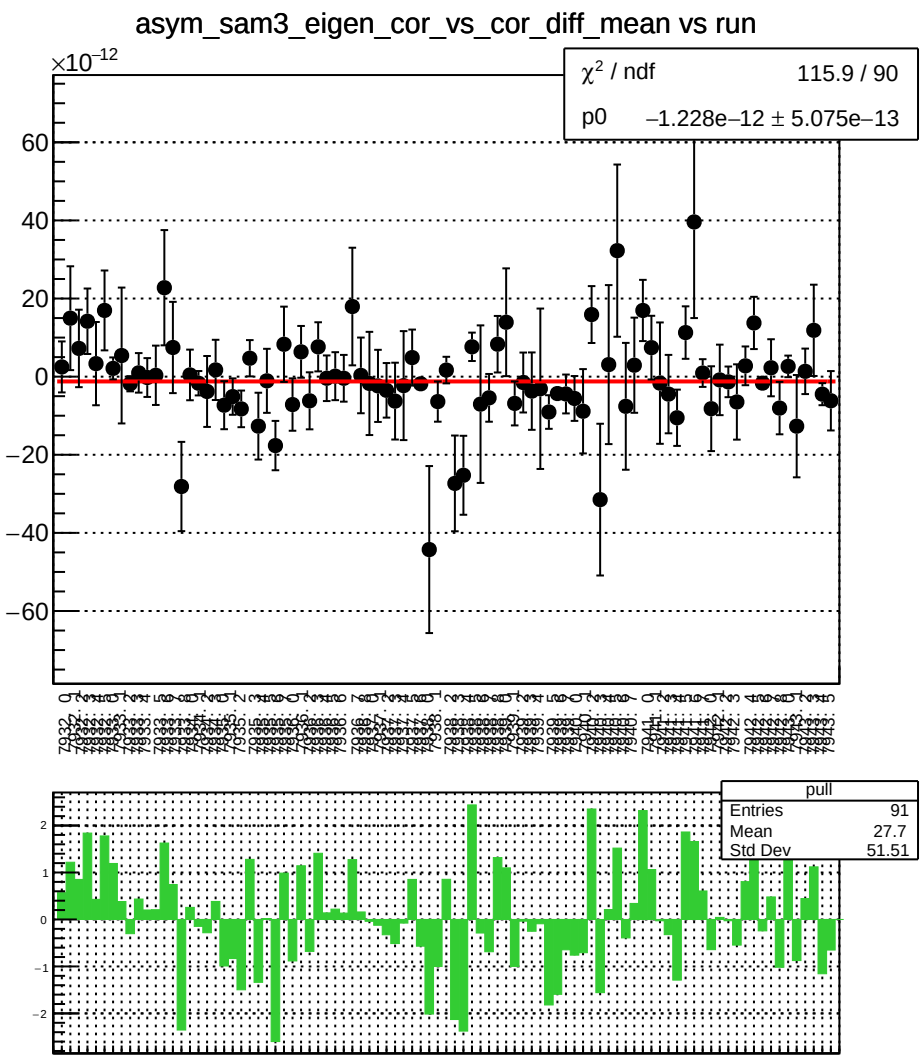

pull1D
Entries 91
Mean −0.04395
Std Dev 1.092

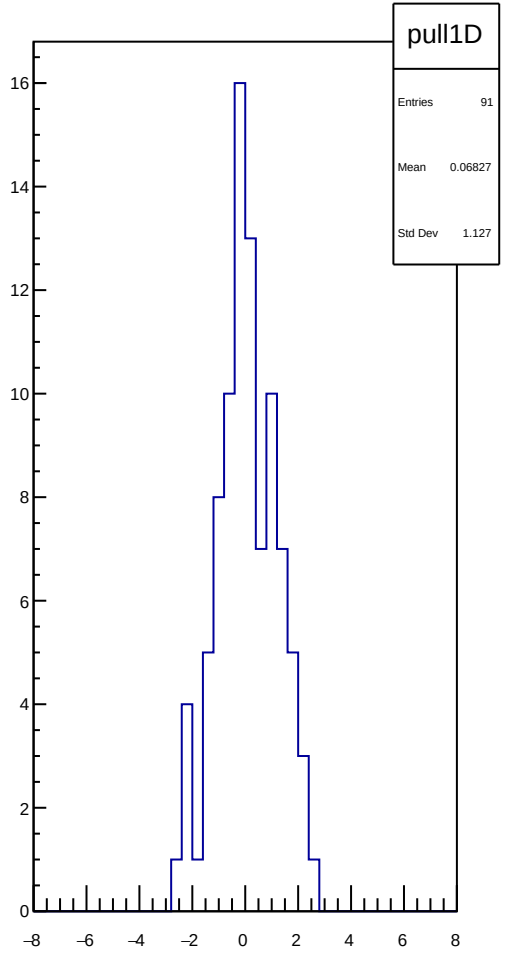

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 90
p0 120.5 ± 0.09793
400
350
300
250
200
150
100
50

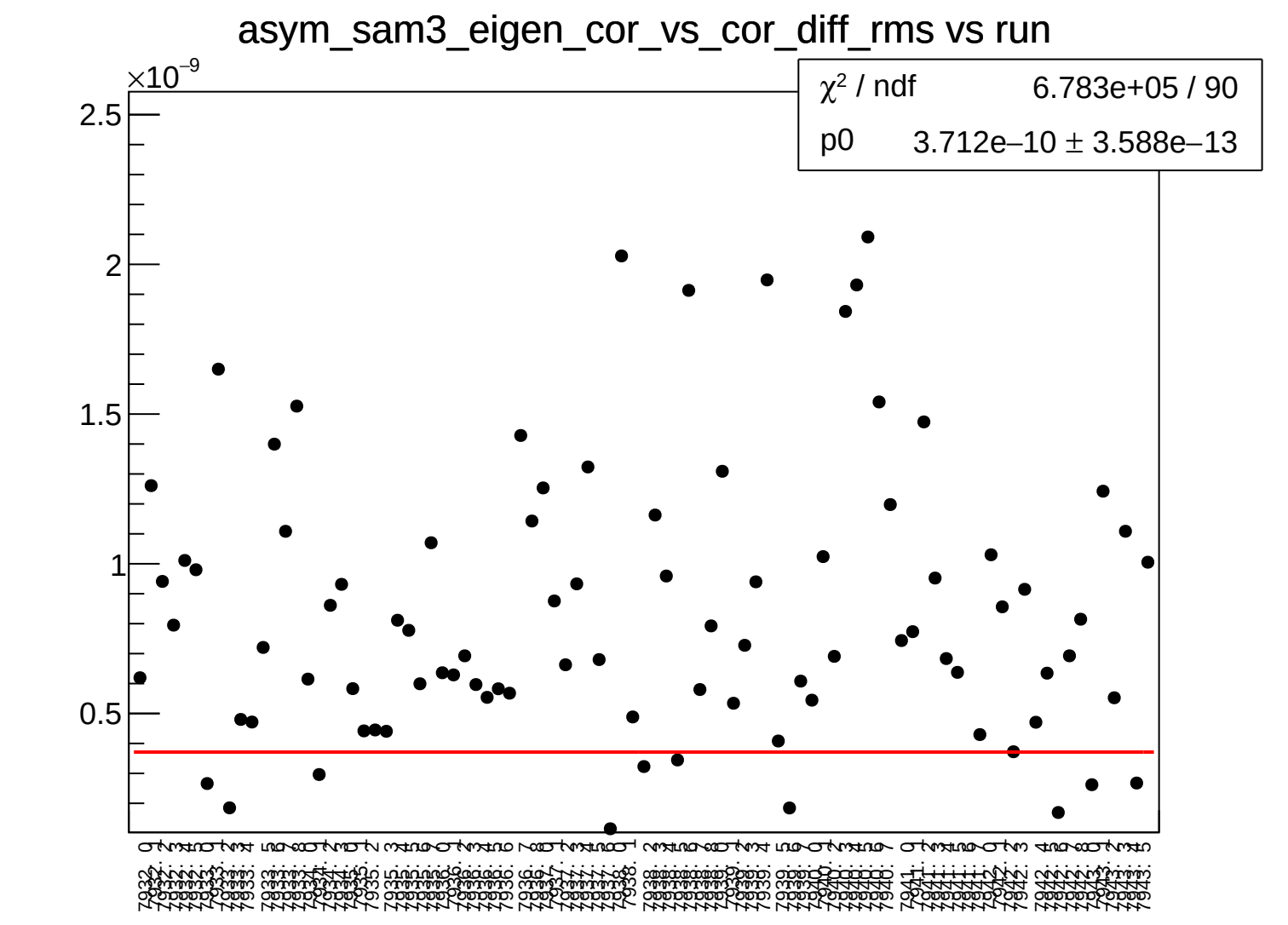

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 90
p0 0.1482 ± 0.1385
pull
Entries 91
Mean 45.82
Std Dev 0

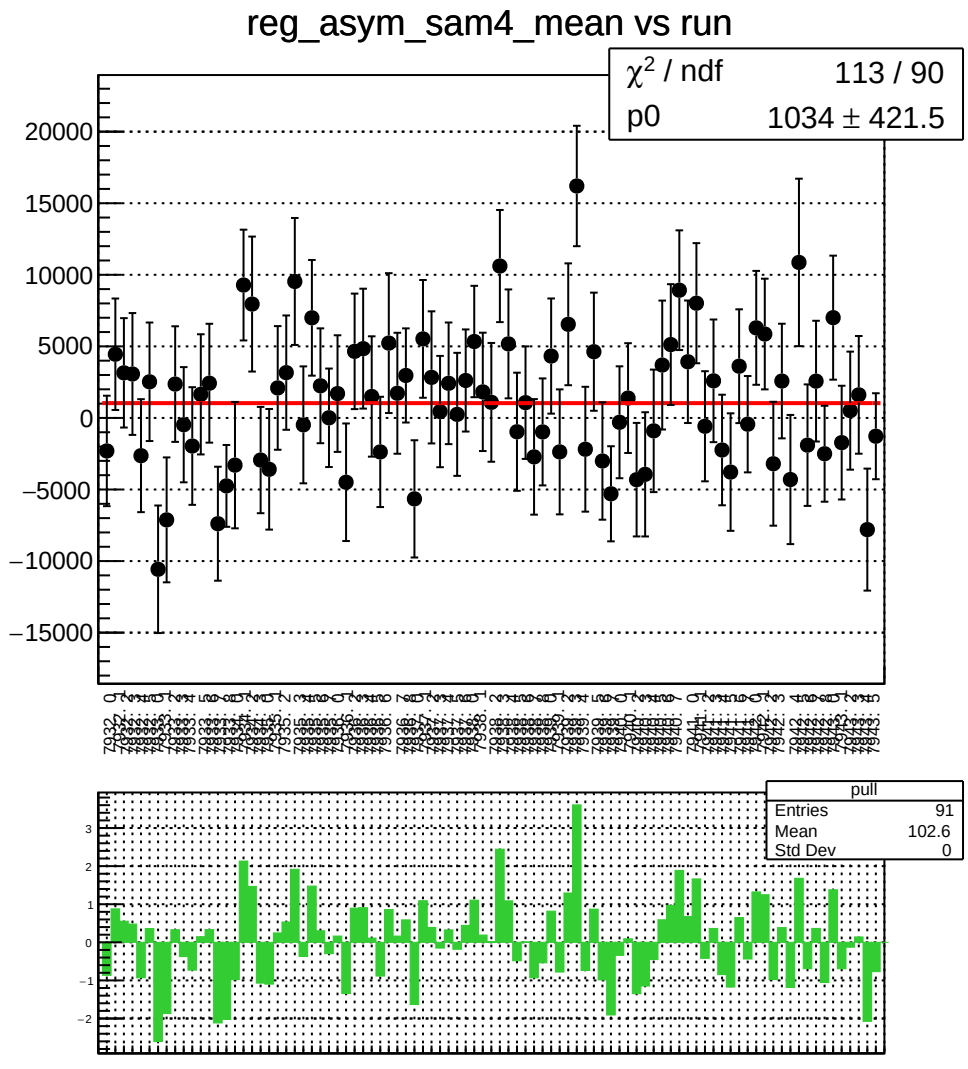

pull1D
Entries 91
Mean −0.04395
Std Dev 1.092

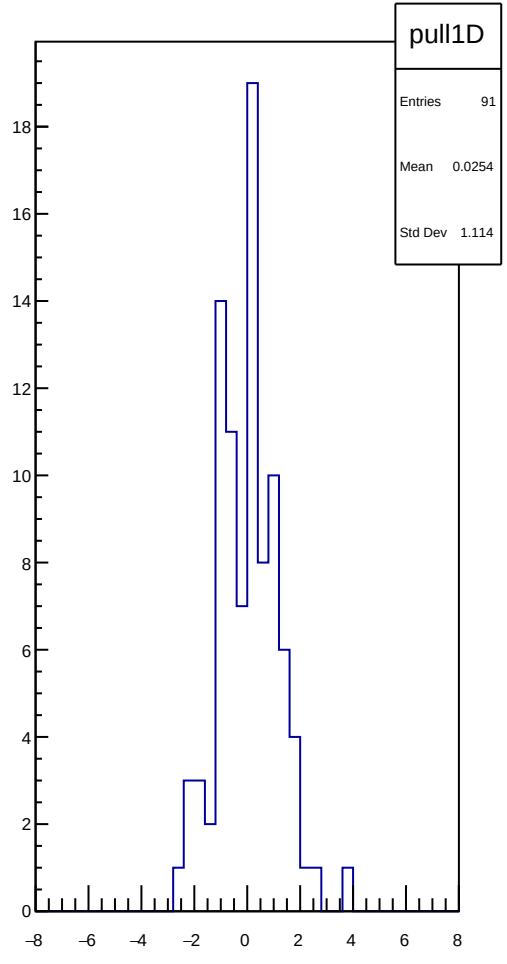

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.342e+05 / 90
p0 120.5 ± 0.09793
400
350
300
250
200
150
100
50

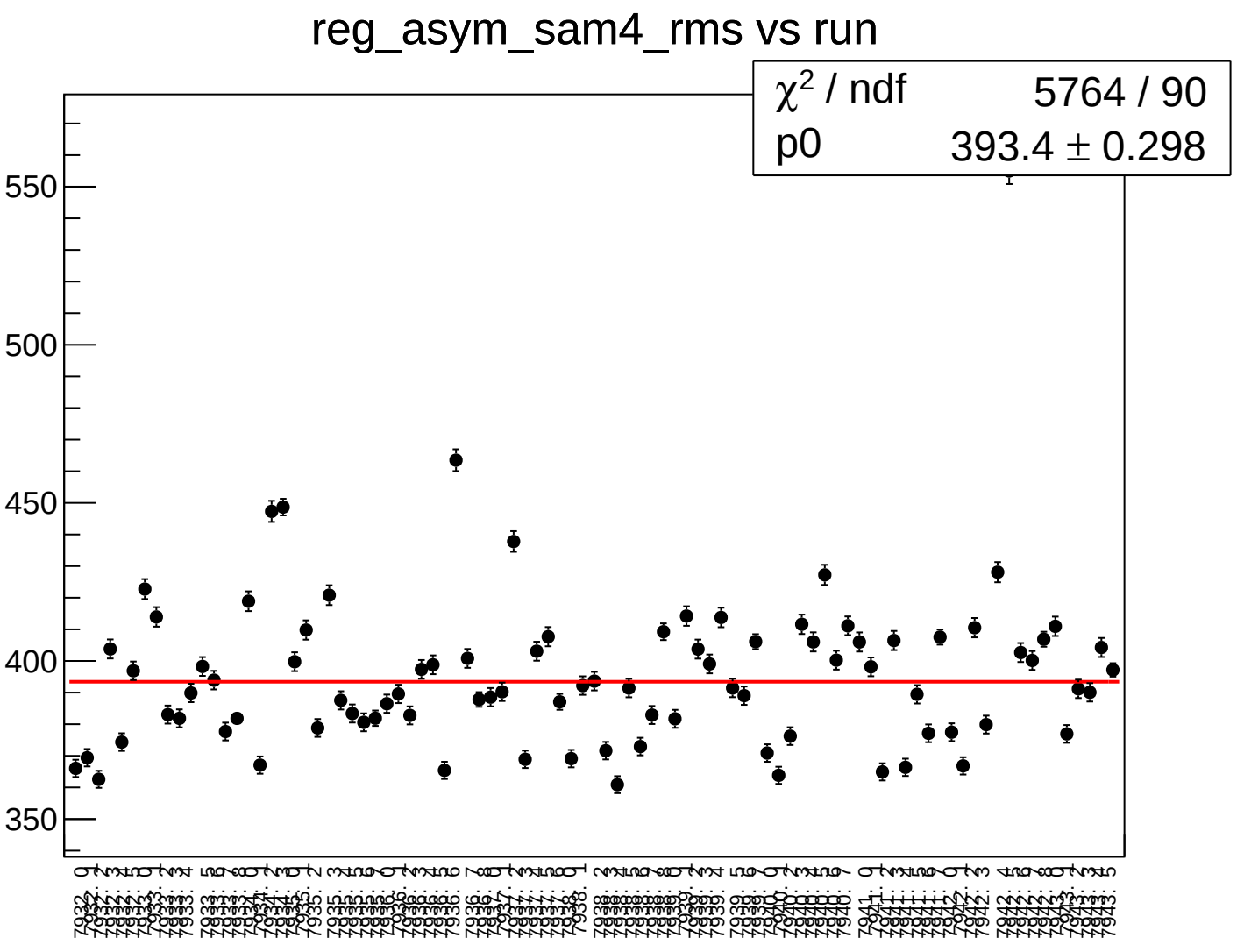

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.9 / 90
p0 −1.228e−12 ± 5.075e−13
60
40
20
0
−20
−40
−60
pull
Entries 91
Mean 27.7
Std Dev 51.51
2
1
0
−1
−2

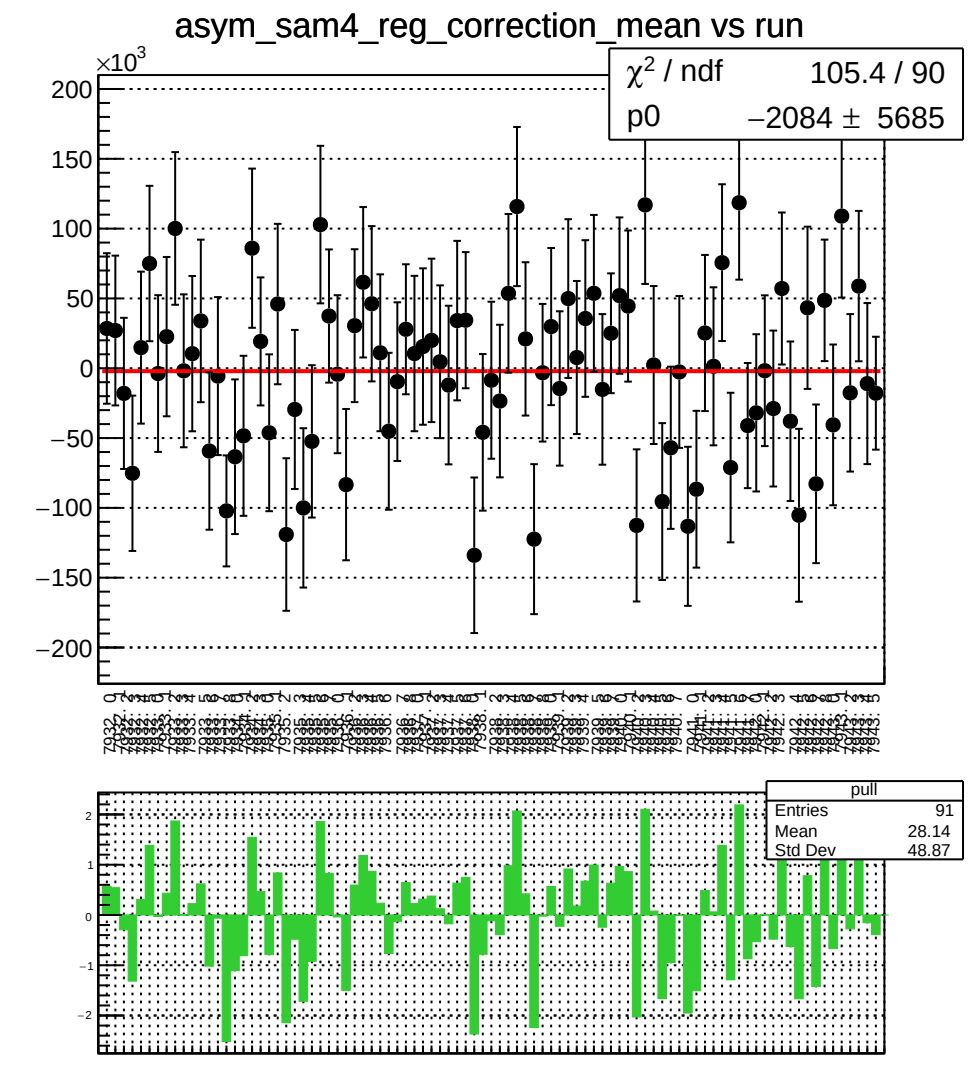

pull1D
Entries 91
Mean 0.06827
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

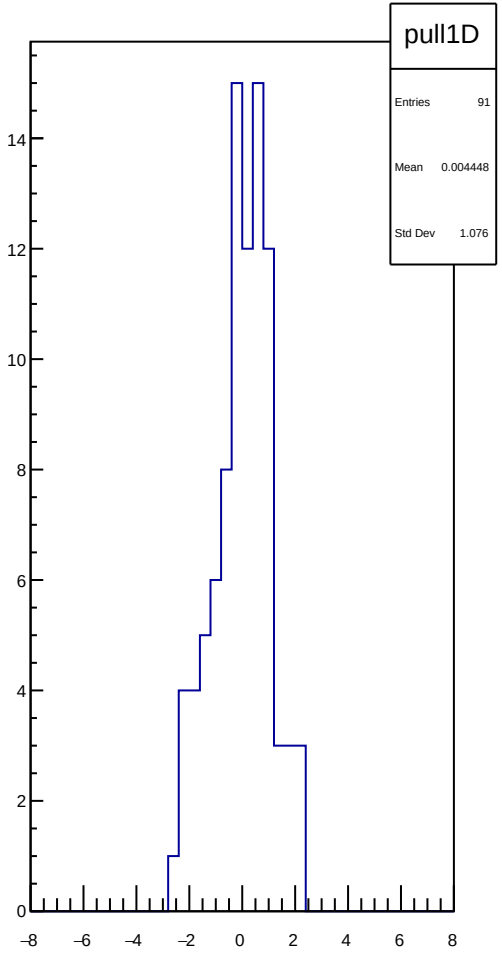

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.783e+05 / 90
p0 3.712e−10 ± 3.588e−13
2.5
2
1.5
1
0.5

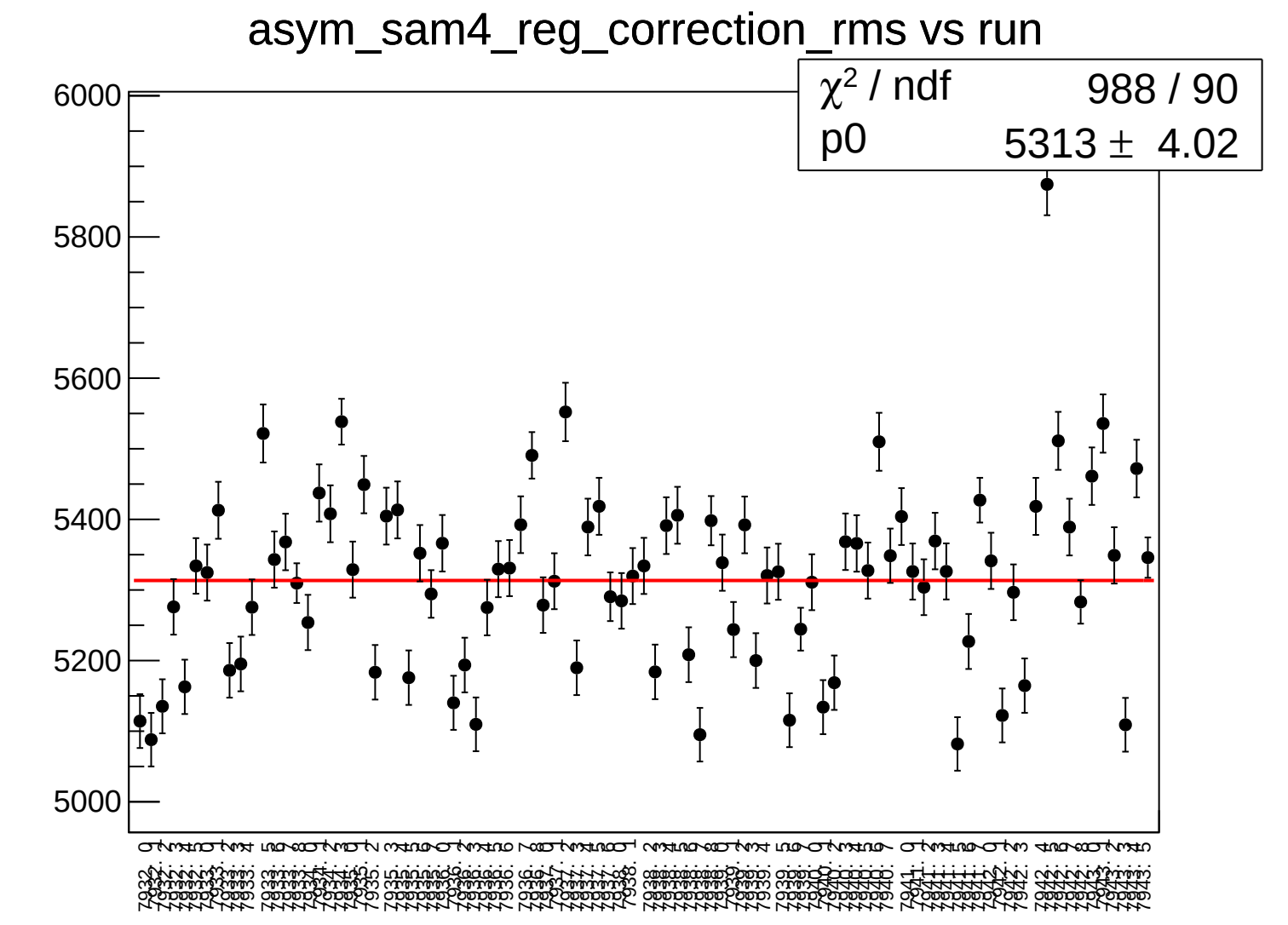

reg_asym_sam4_mean vs run
χ² / ndf 113 / 90
p0 1034 ± 421.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 102.6
Std Dev 0
3
2
1
0
−1
−2

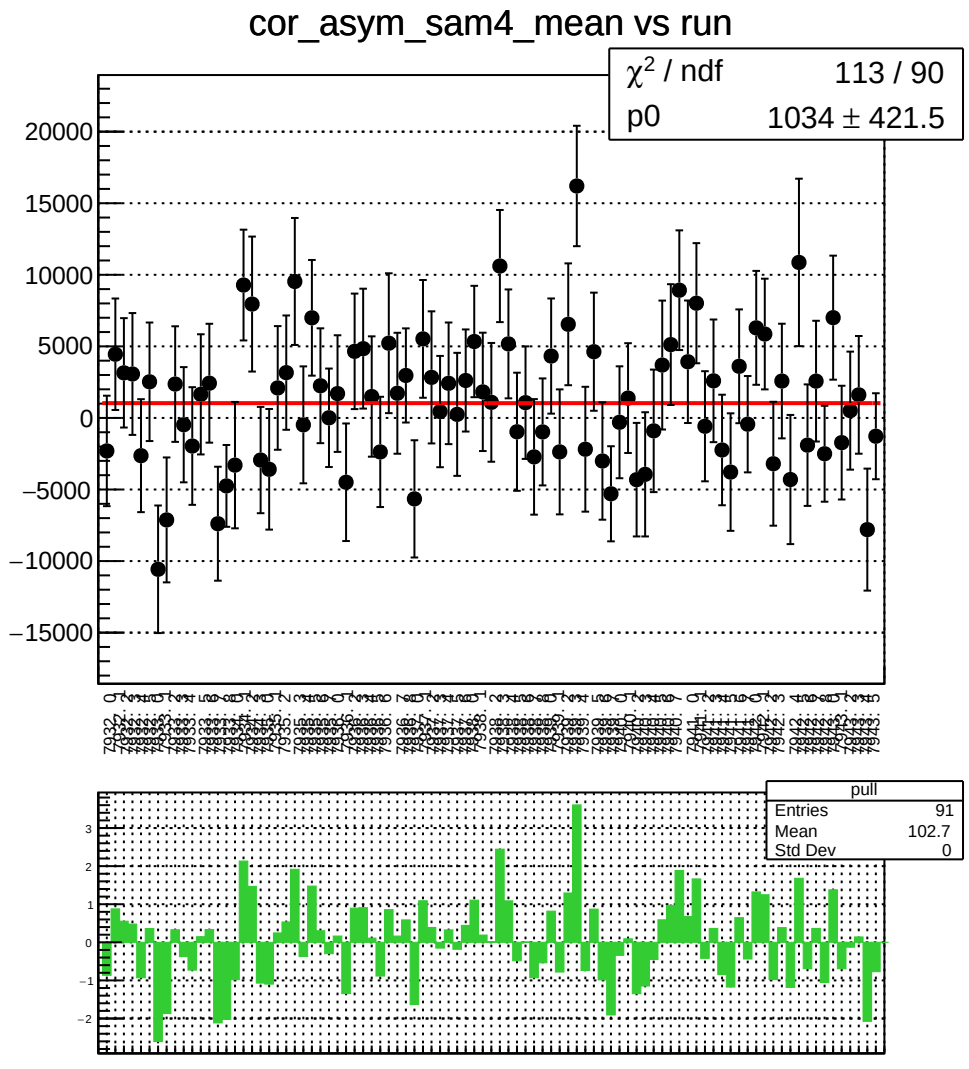

pull1D
Entries 91
Mean 0.0254
Std Dev 1.114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

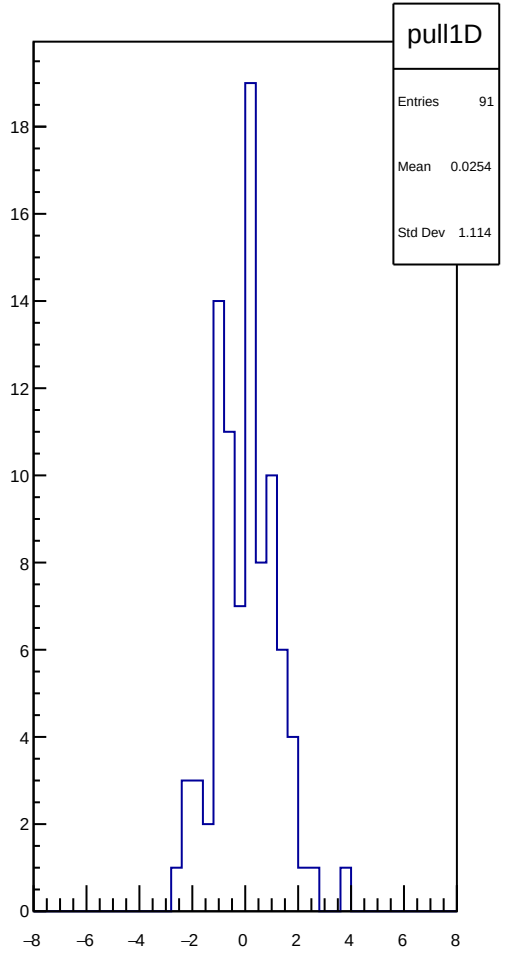

reg_asym_sam4_rms vs run
χ² / ndf 5764 / 90
p0 393.4 ± 0.298
550
500
450
400
350

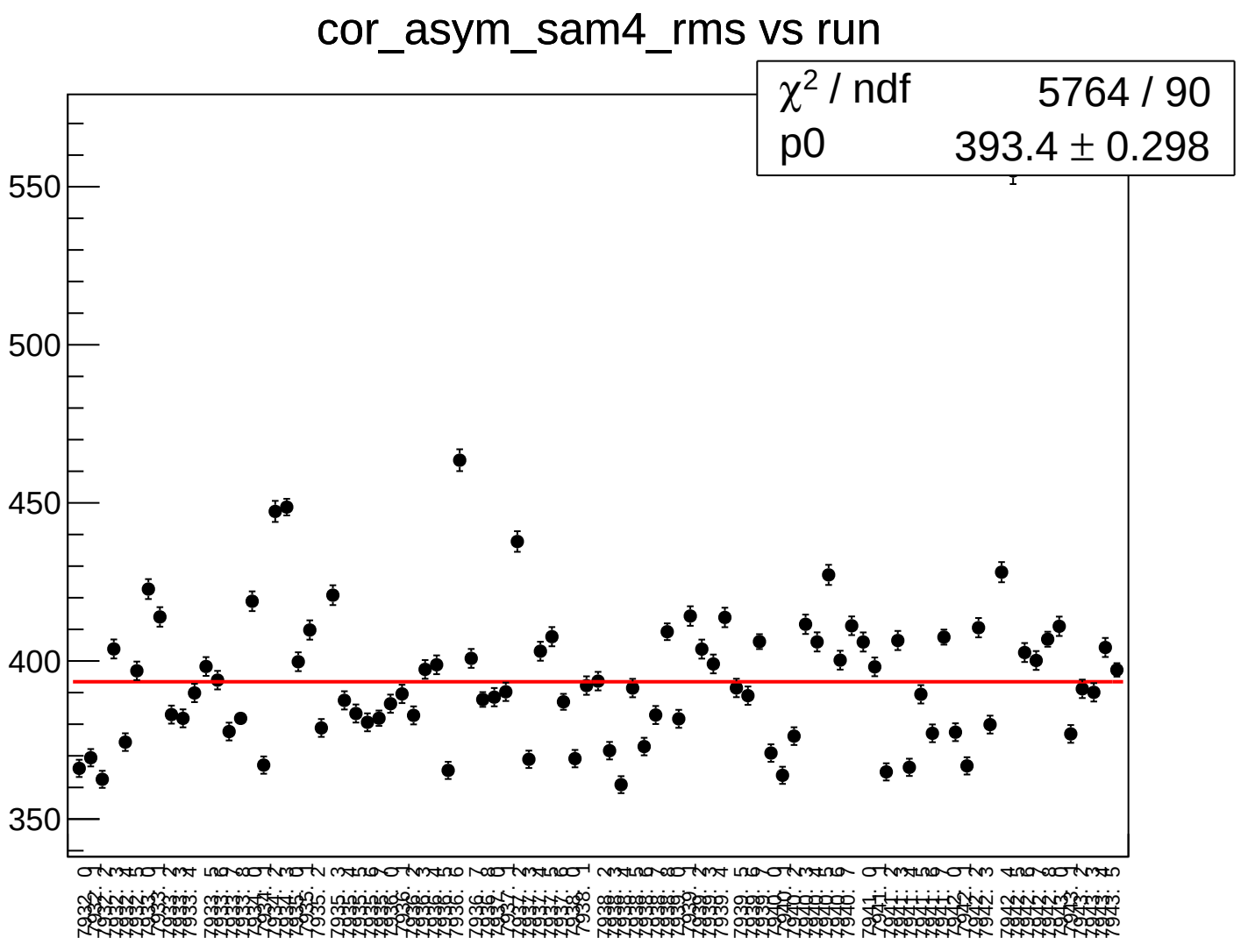

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 105.4 / 90
p0 −2084 ± 5685
pull
Entries 91
Mean 28.14
Std Dev 48.87

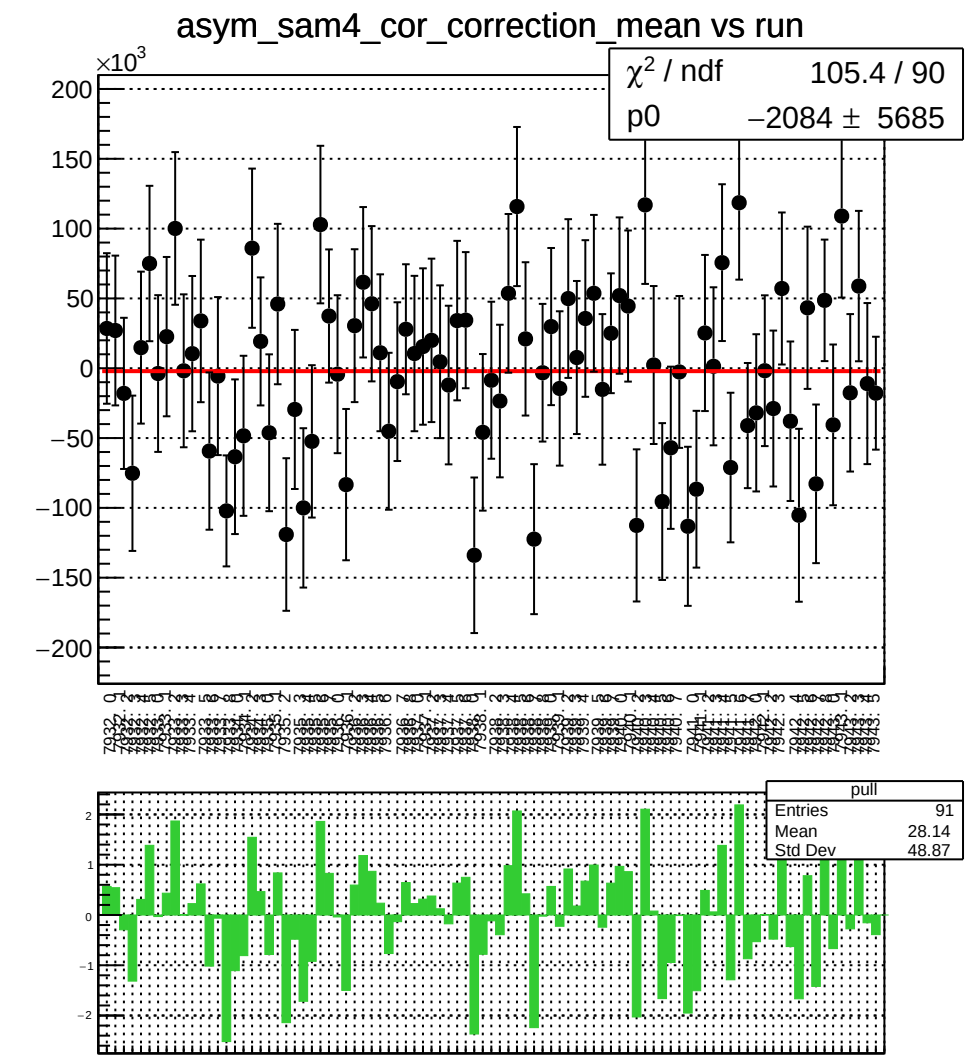

pull1D
Entries 91
Mean 0.004448
Std Dev 1.076

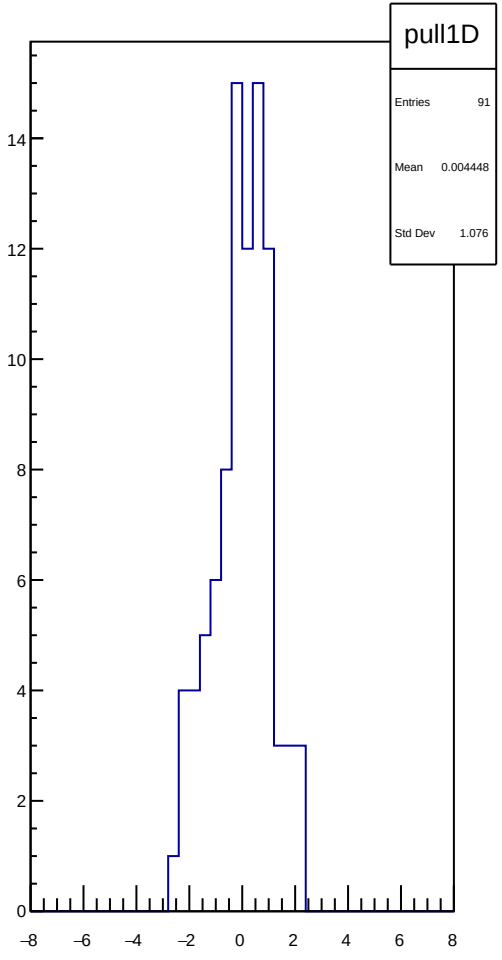

asym_sam4_reg_correction_rms vs run
χ² / ndf 988 / 90
p0 5313 ± 4.02
6000
5800
5600
5400
5200
5000

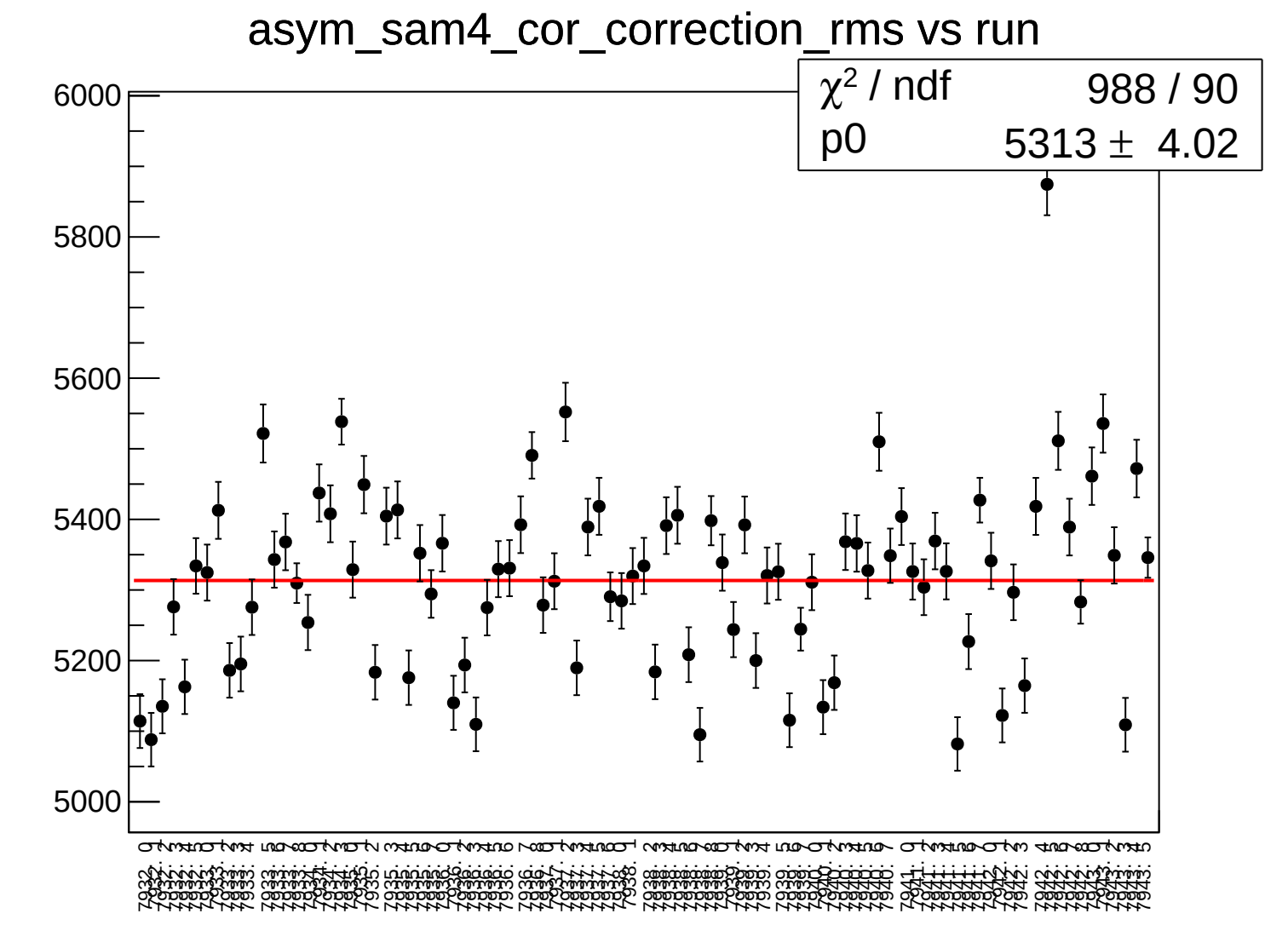

cor_asym_sam4_mean vs run
χ² / ndf 113 / 90
p0 1034 ± 421.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 102.7
Std Dev 0
3
2
1
0
−1
−2

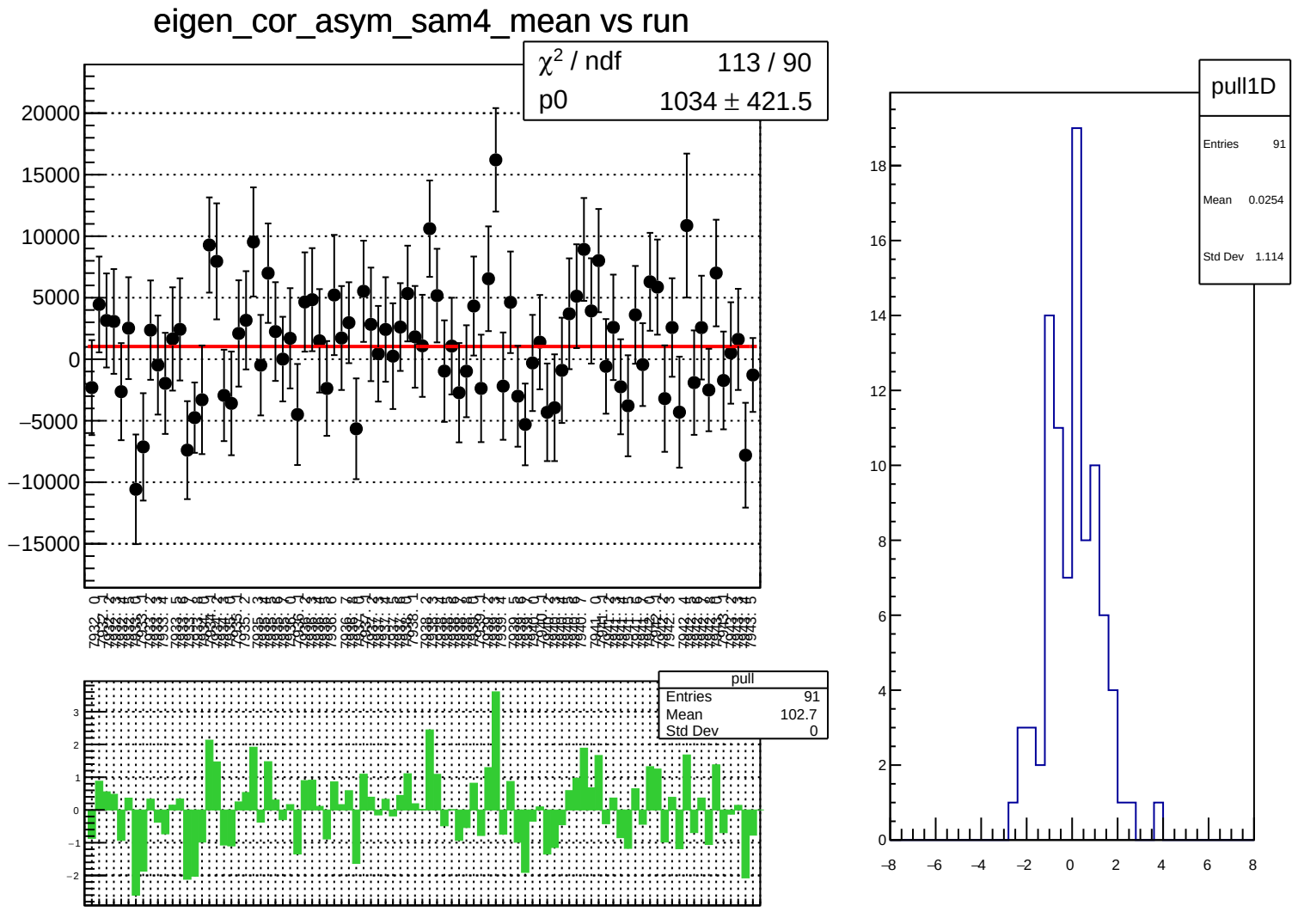

pull1D
Entries 91
Mean 0.0254
Std Dev 1.114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

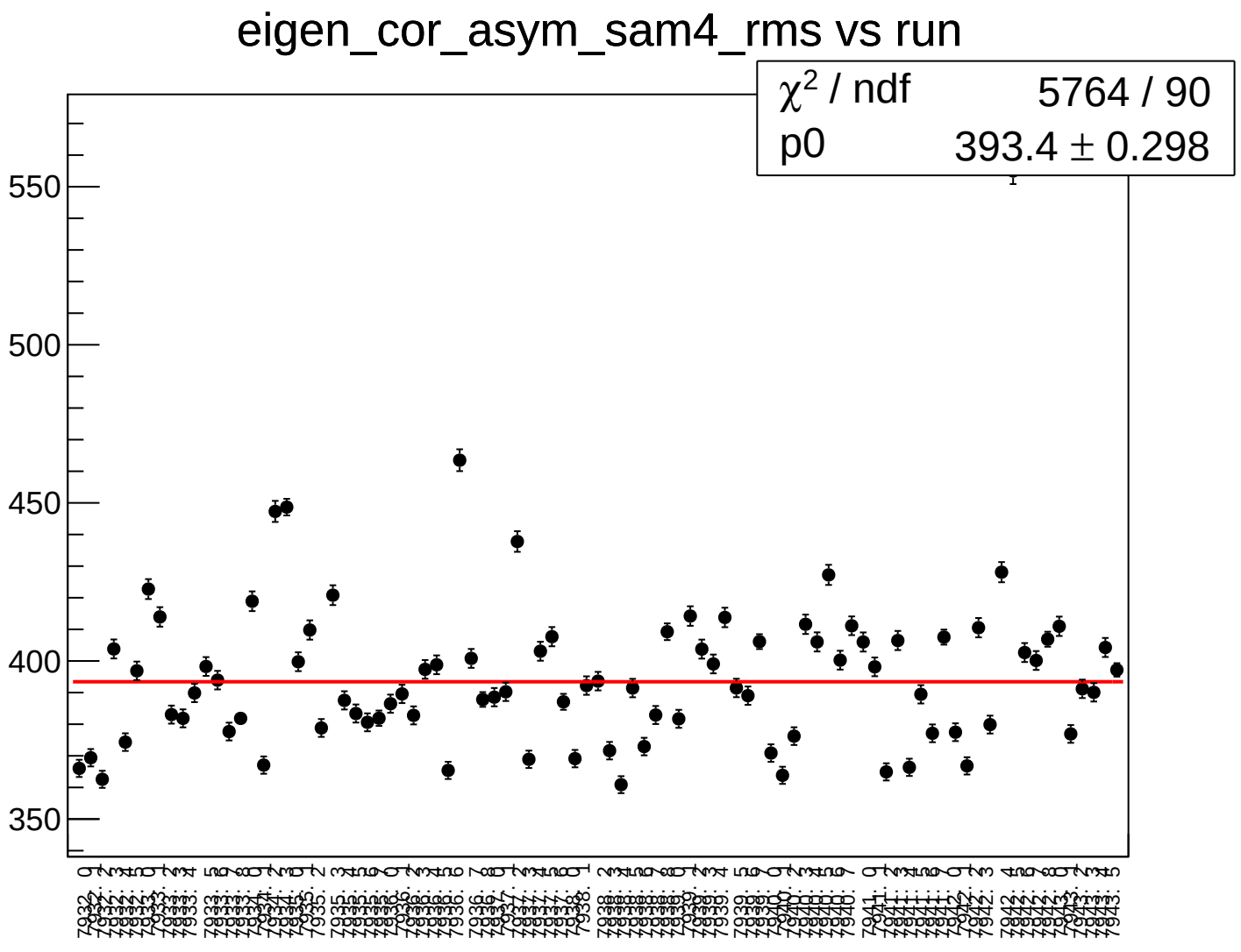

cor_asym_sam4_rms vs run
χ^2 / ndf 5764 / 90
p0 393.4 ± 0.298
550
500
450
400
350

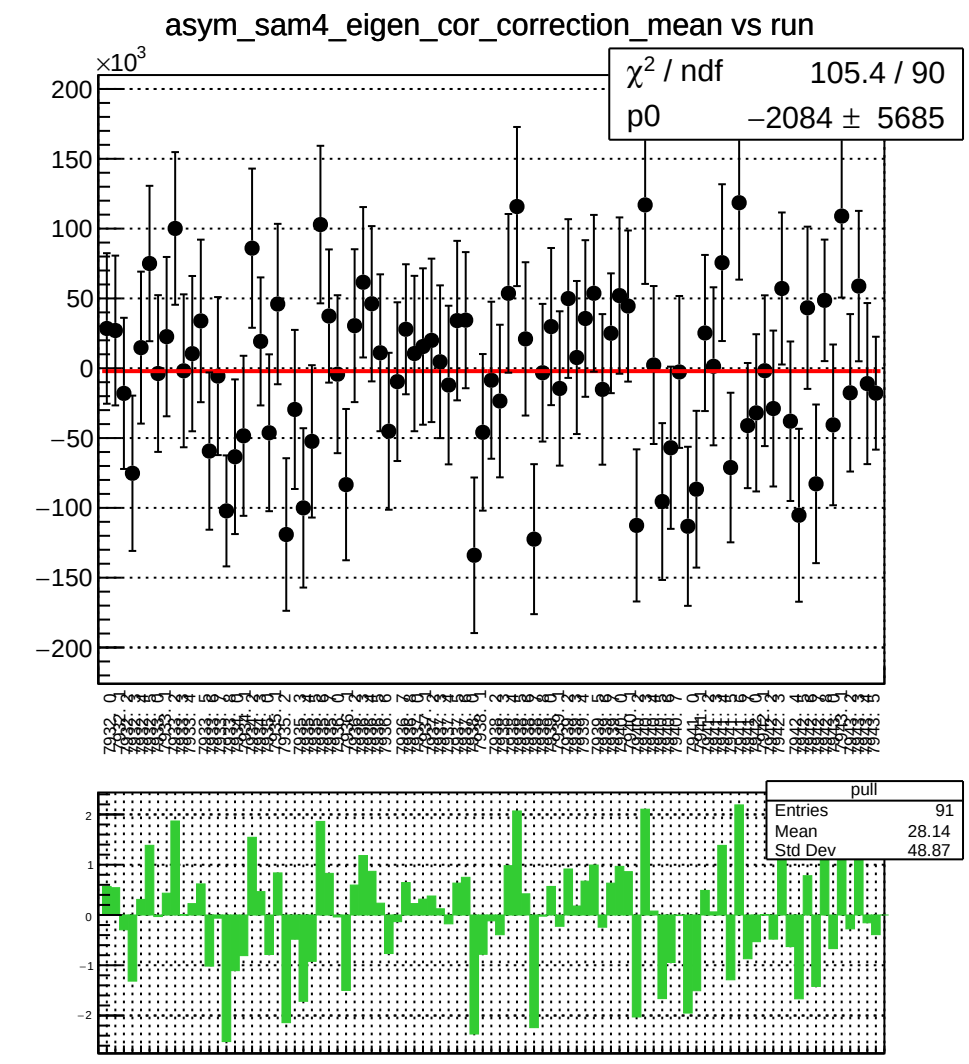

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 105.4 / 90
p0 −2084 ± 5685
pull
Entries 91
Mean 28.14
Std Dev 48.87

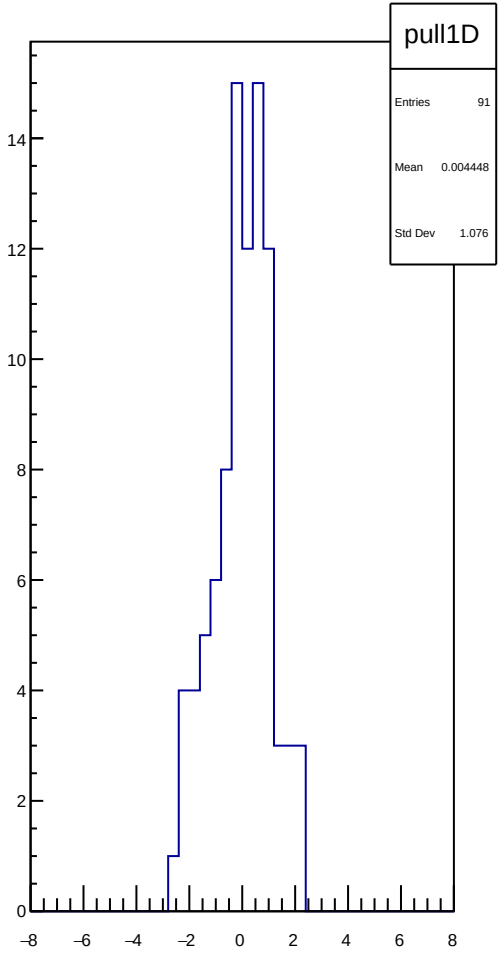

pull1D
Entries 91
Mean 0.004448
Std Dev 1.076

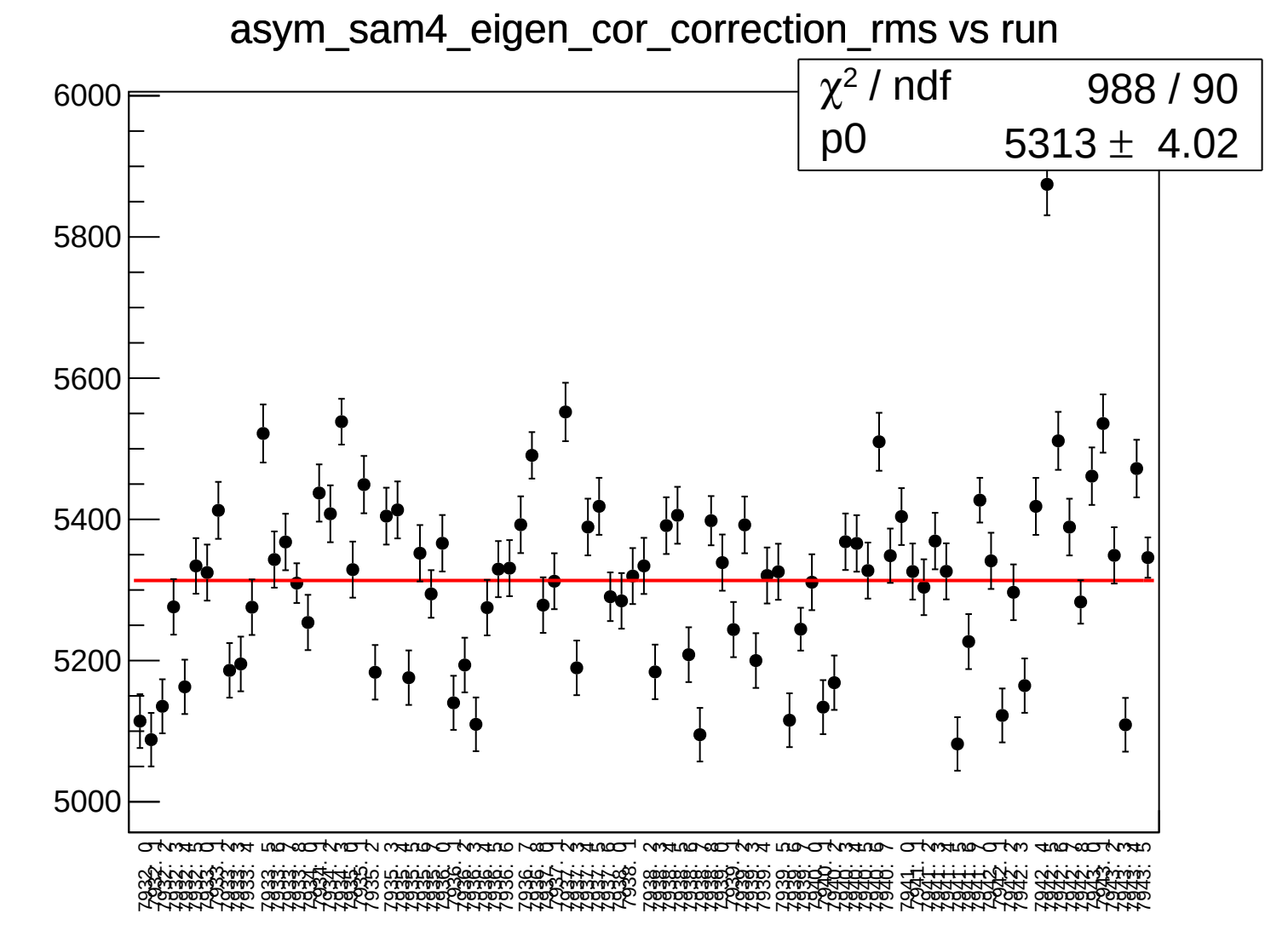

asym_sam4_cor_correction_rms vs run
χ² / ndf 988 / 90
p0 5313 ± 4.02
6000
5800
5600
5400
5200
5000

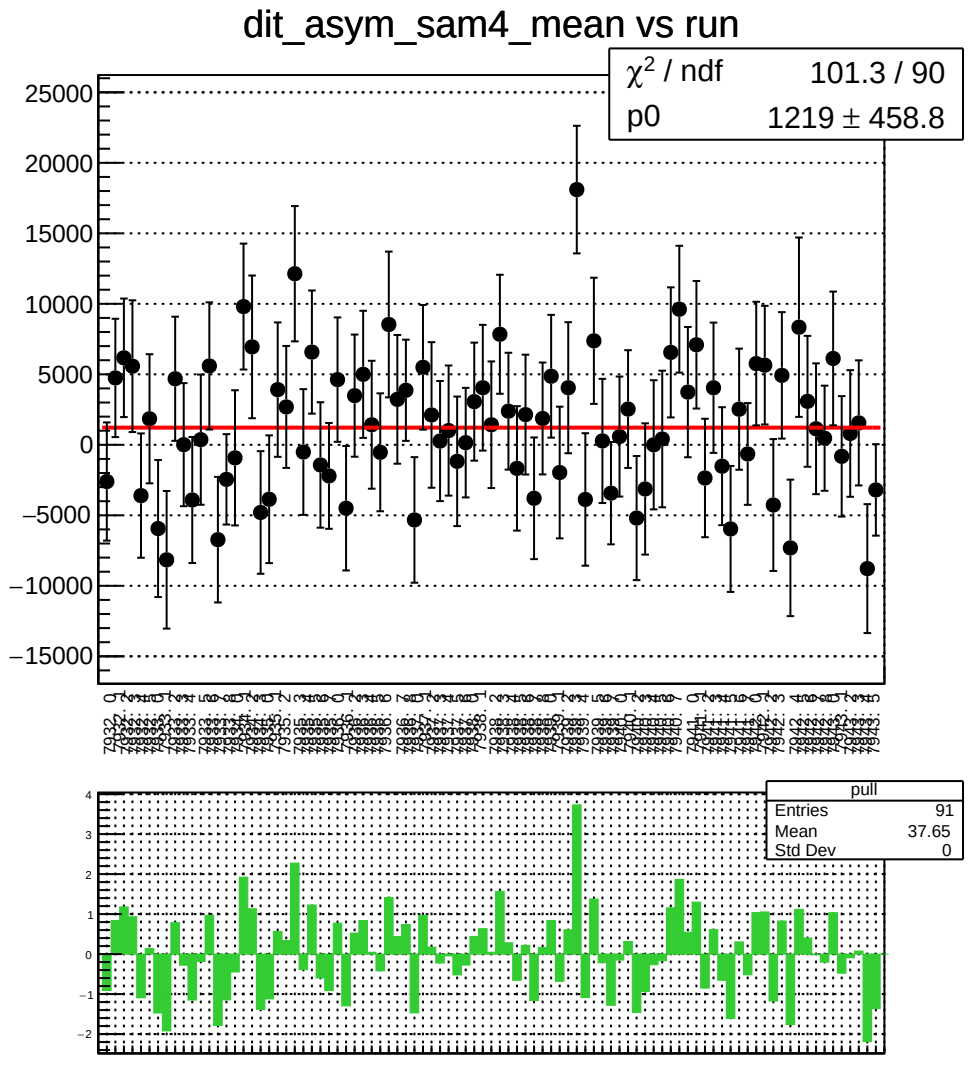

eigen_cor_asym_sam4_mean vs run
χ² / ndf 113 / 90
p0 1034 ± 421.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 102.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0254
Std Dev 1.114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

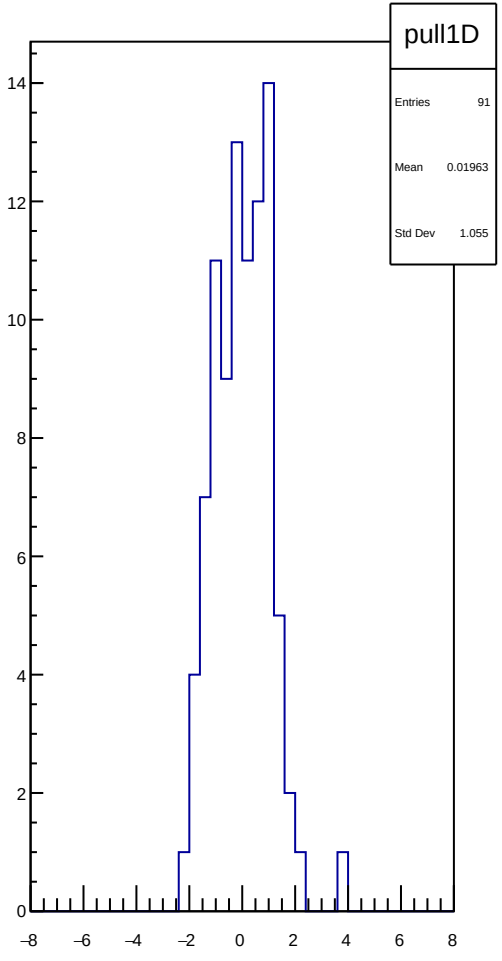

eigen_cor_asym_sam4_rms vs run
χ^2 / ndf 5764 / 90
p0 393.4 ± 0.298
550
500
450
400
350

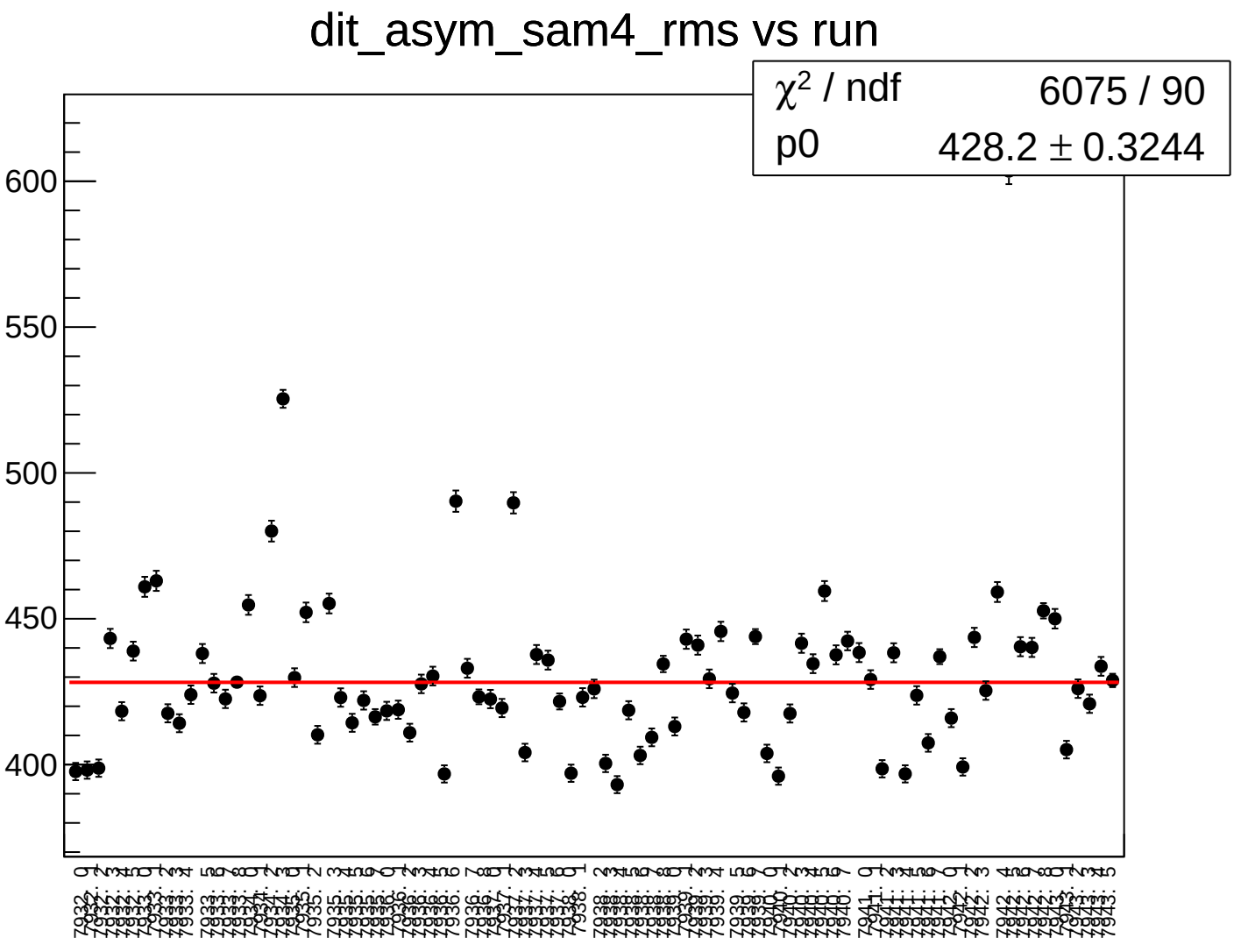

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105.4 / 90
p0 −2084 ± 5685
pull
Entries 91
Mean 28.14
Std Dev 48.87

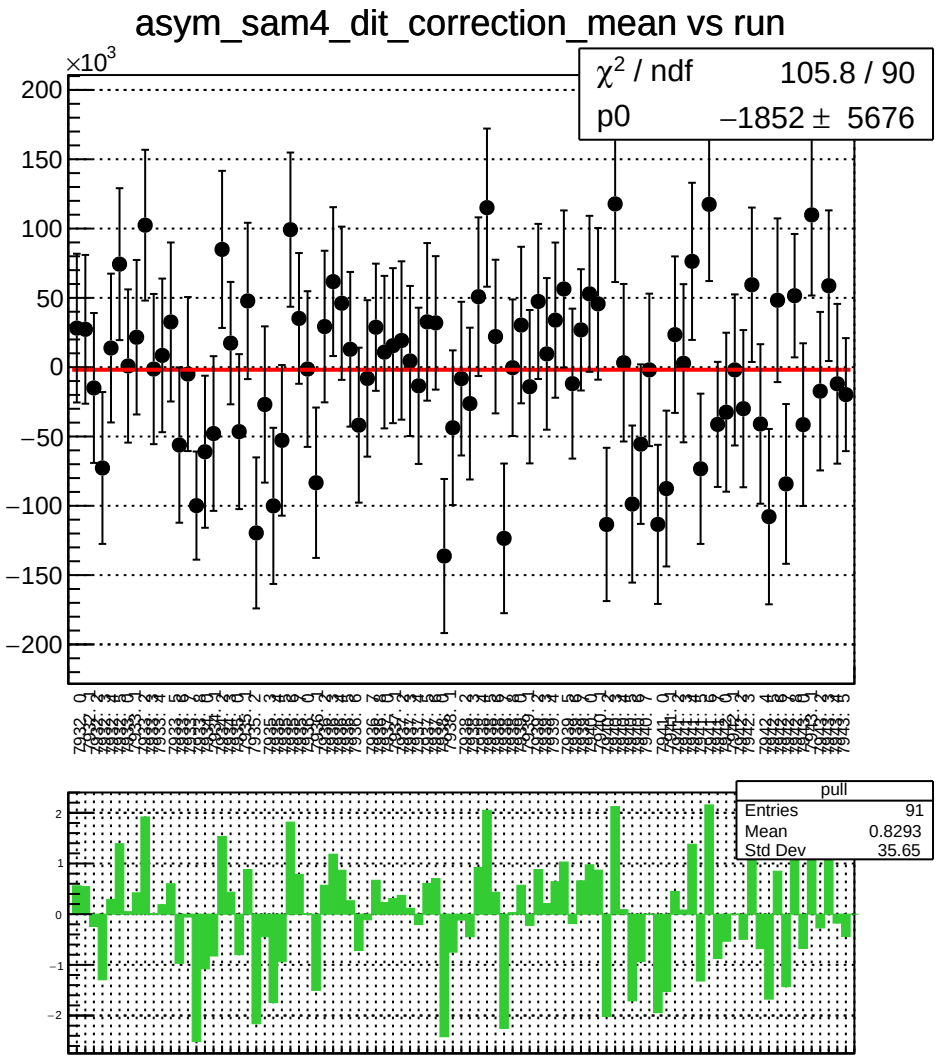

pull1D
Entries 91
Mean 0.004448
Std Dev 1.076

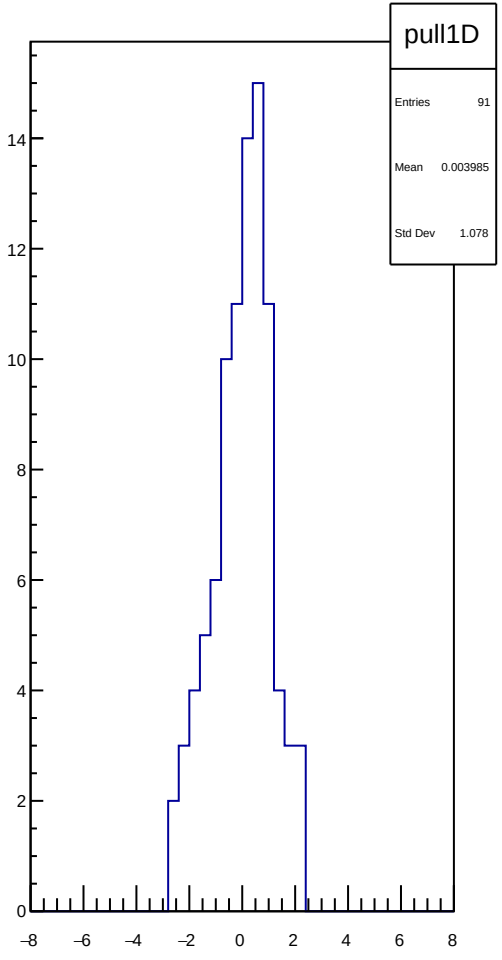

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 988 / 90
p0 5313 ± 4.02
6000
5800
5600
5400
5200
5000

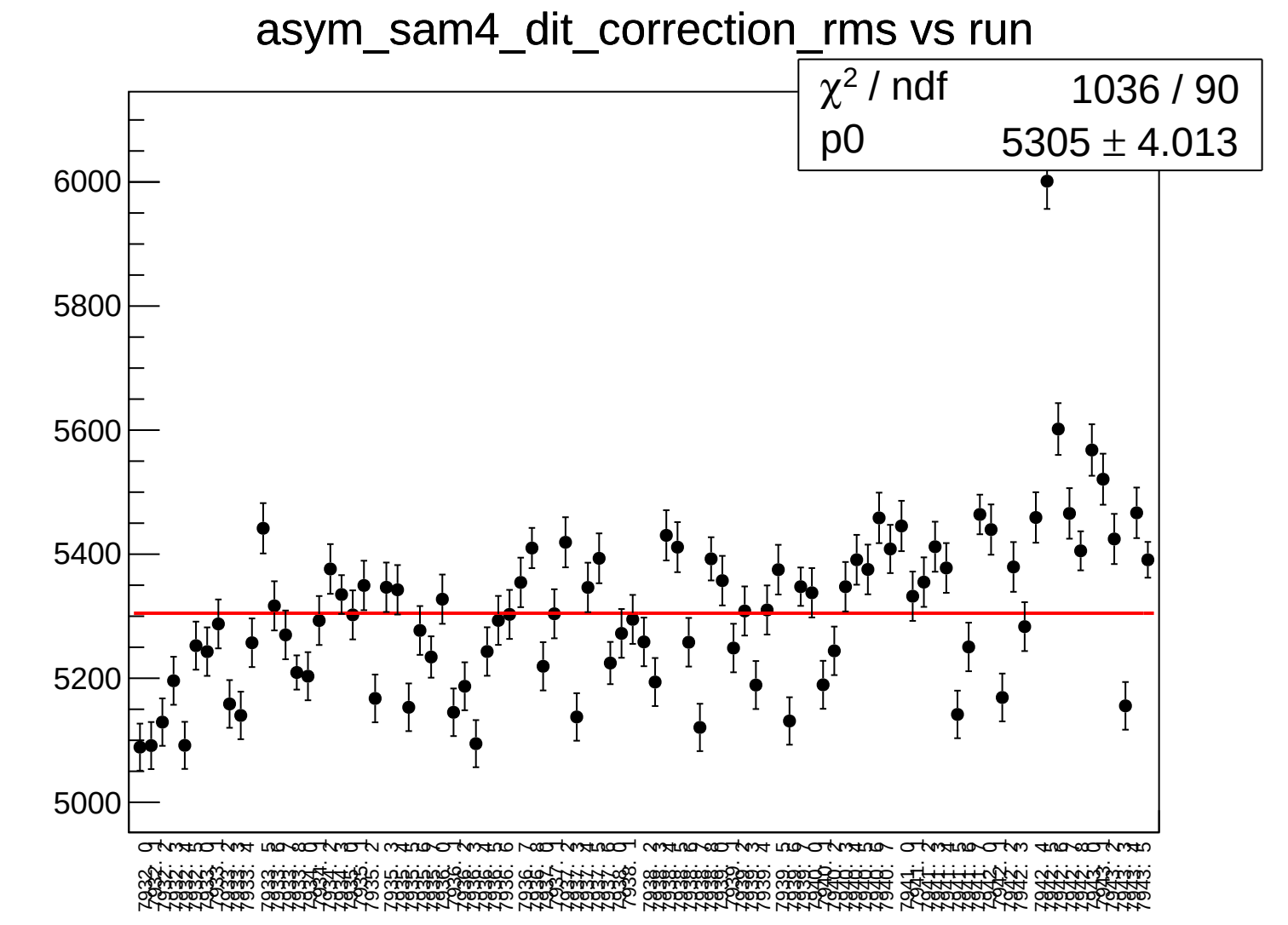

dit_asym_sam4_mean vs run
χ² / ndf 101.3 / 90
p0 1219 ± 458.8
pull
Entries 91
Mean 37.65
Std Dev 0

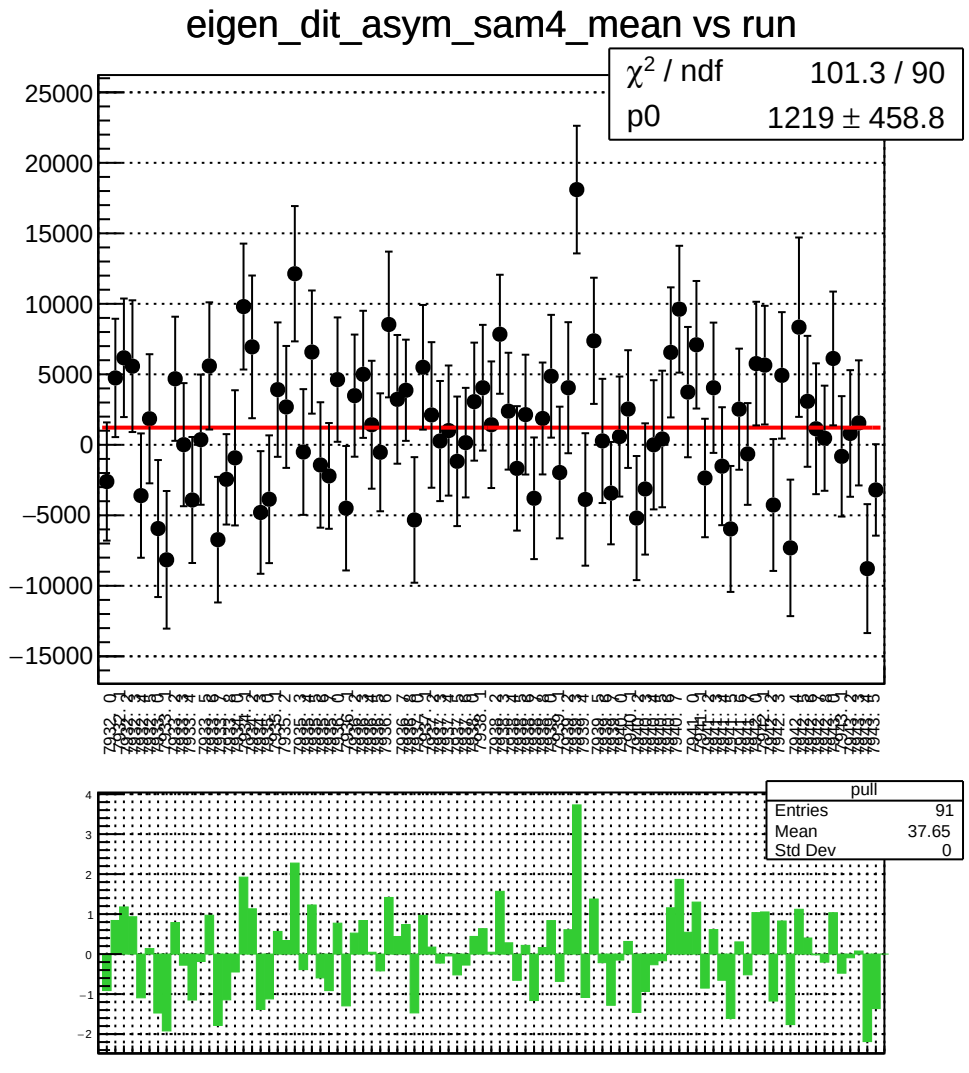

pull1D
Entries 91
Mean 0.01963
Std Dev 1.055

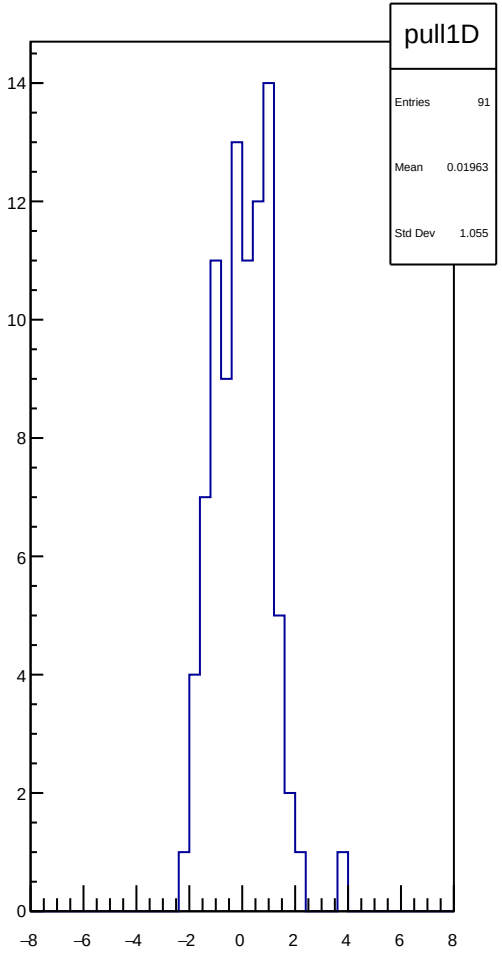

dit_asym_sam4_rms vs run
χ^2 / ndf 6075 / 90
p0 428.2 ± 0.3244
600
550
500
450
400

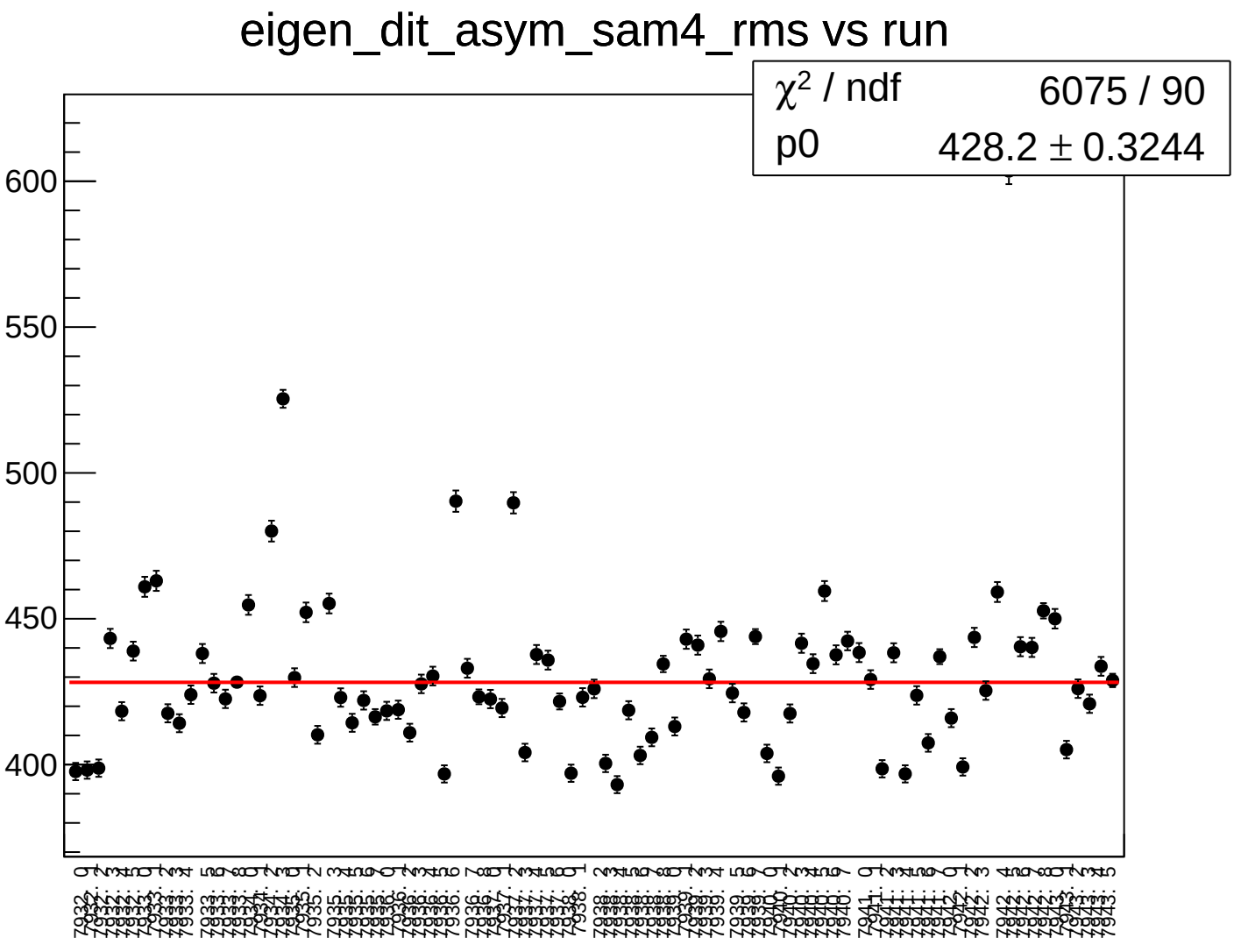

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 105.8 / 90
p0 −1852 ± 5676
pull
Entries 91
Mean 0.8293
Std Dev 35.65

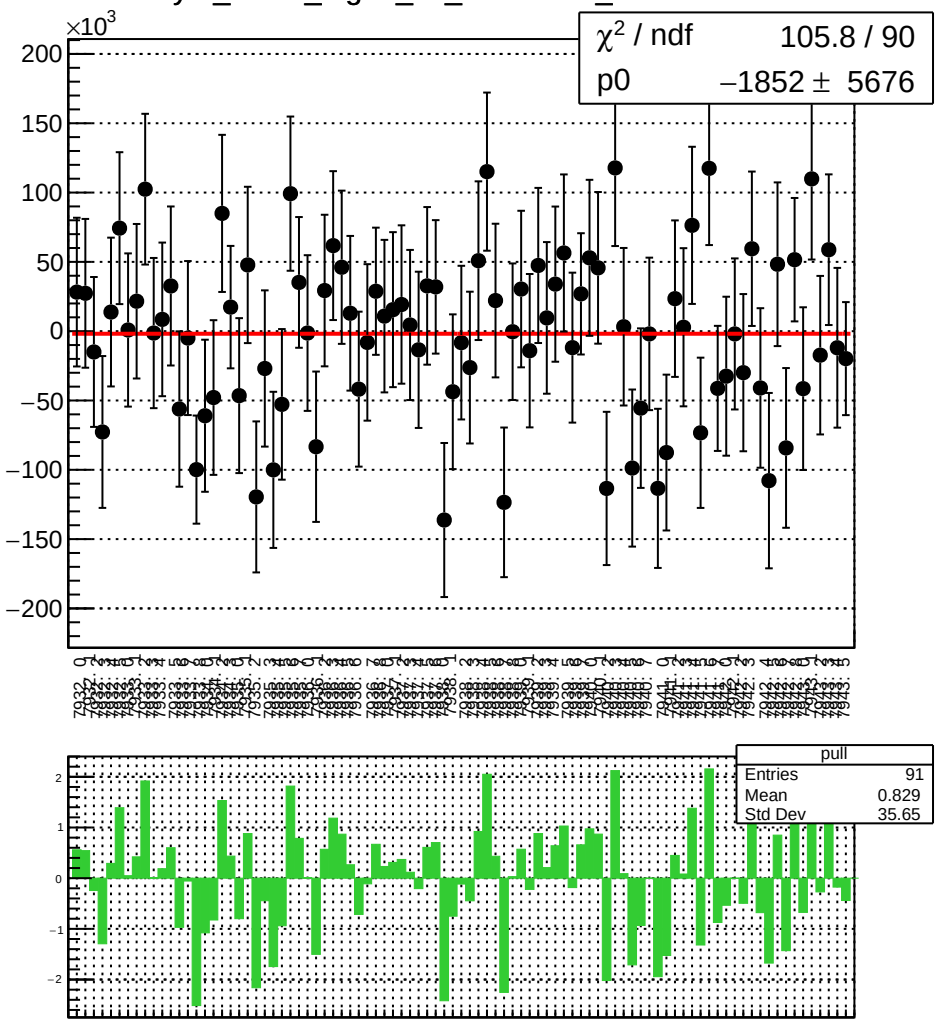

pull1D
Entries 91
Mean 0.003985
Std Dev 1.078

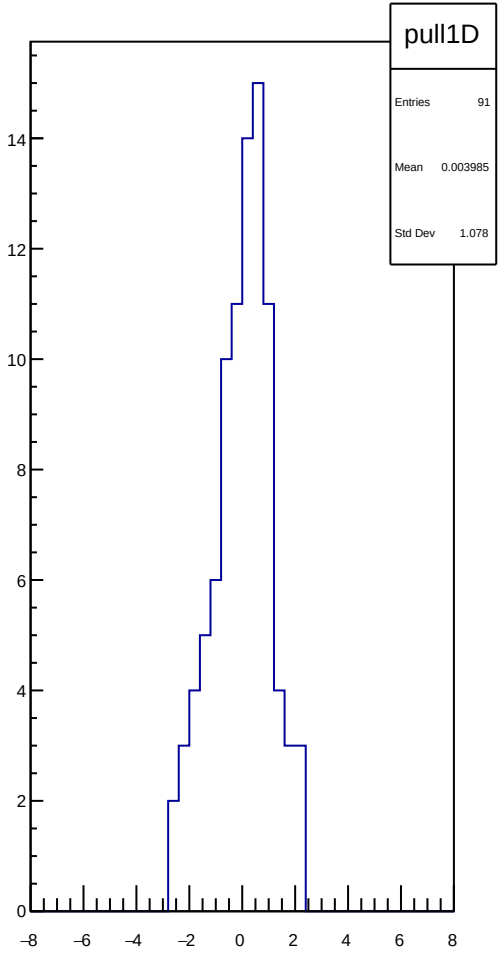

asym_sam4_dit_correction_rms vs run
χ² / ndf 1036 / 90
p0 5305 ± 4.013
6000
5800
5600
5400
5200
5000

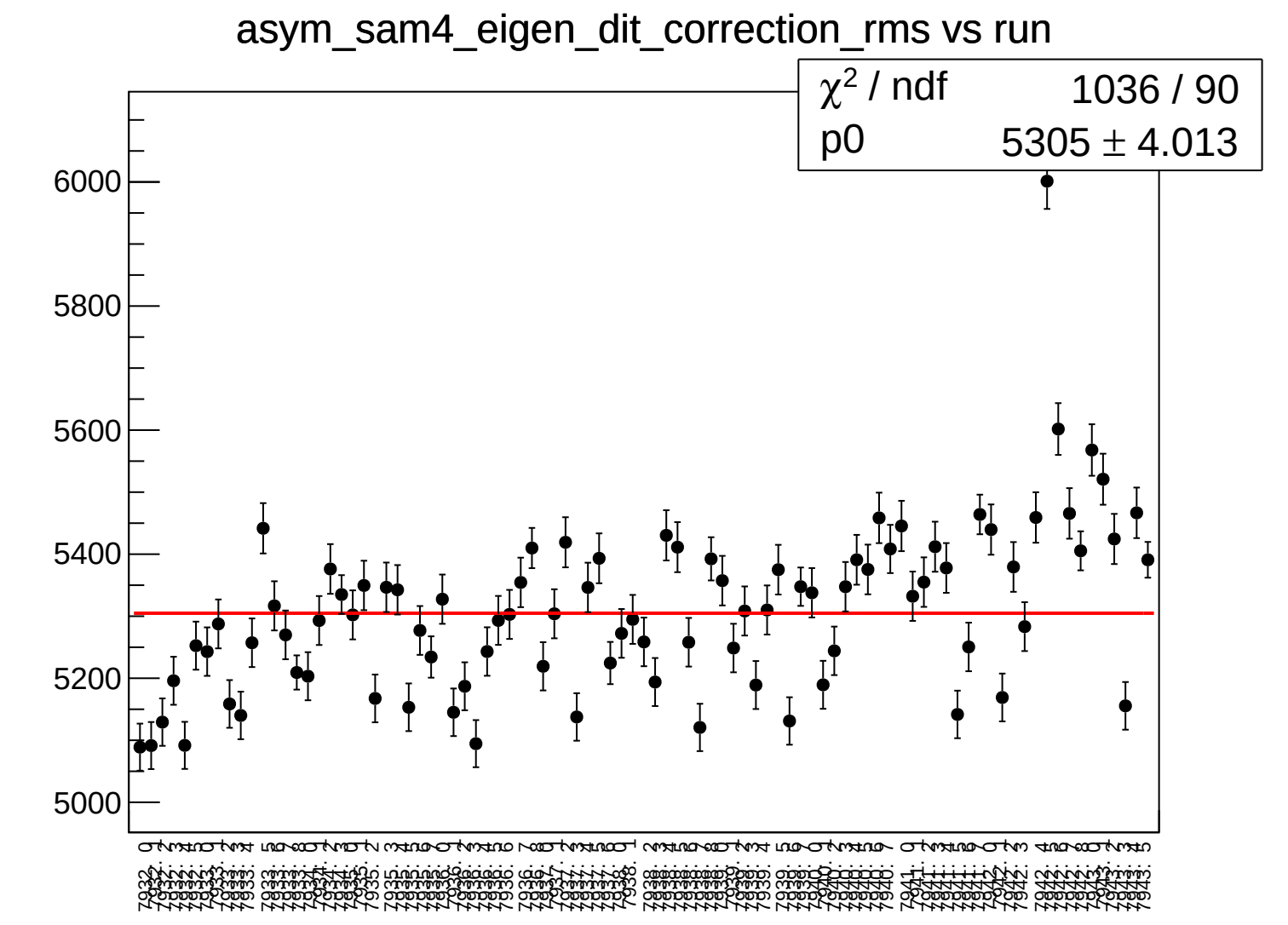

eigen_dit_asym_sam4_mean vs run
χ² / ndf 101.3 / 90
p0 1219 ± 458.8
pull
Entries 91
Mean 37.65
Std Dev 0

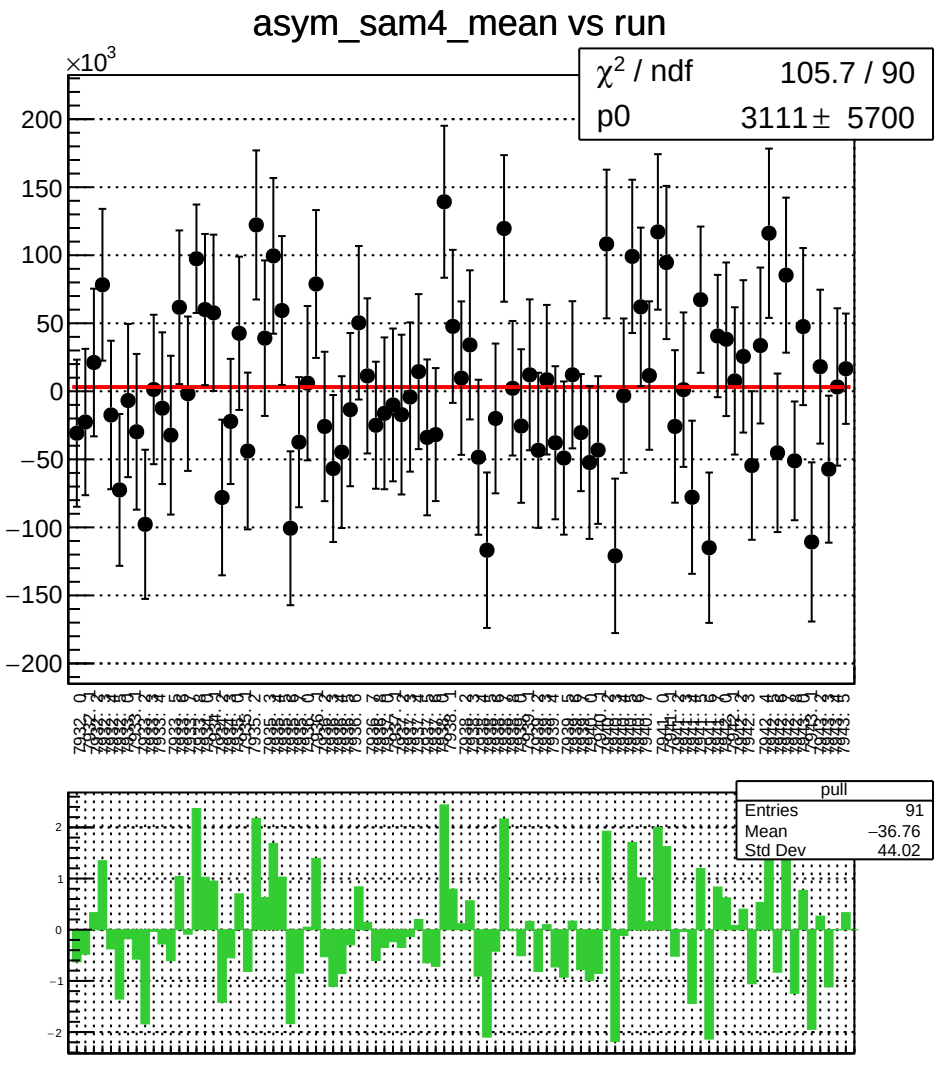

pull1D
Entries 91
Mean 0.01963
Std Dev 1.055

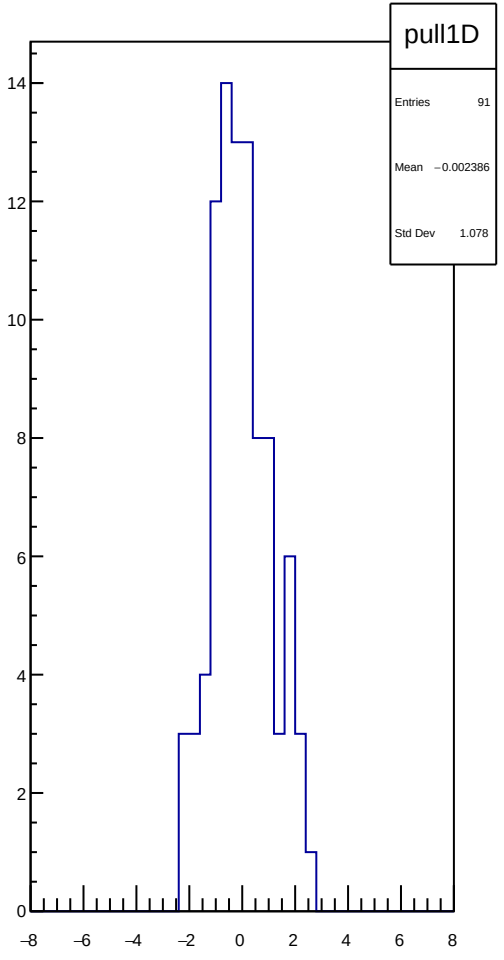

eigen_dit_asym_sam4_rms vs run
χ² / ndf 6075 / 90
p0 428.2 ± 0.3244
600
550
500
450
400

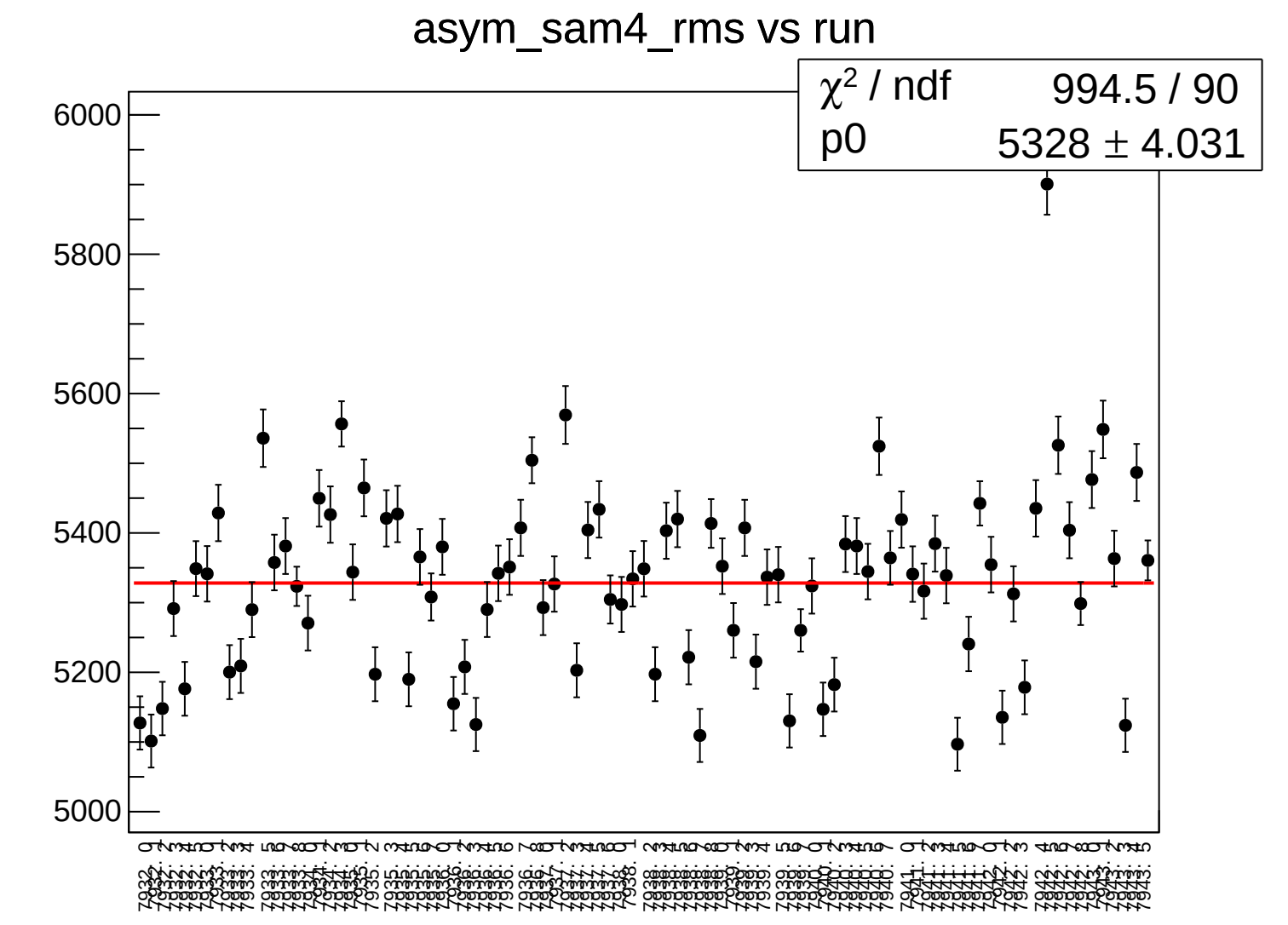

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.8 / 90
p0 −1852 ± 5676
pull
Entries 91
Mean 0.829
Std Dev 35.65

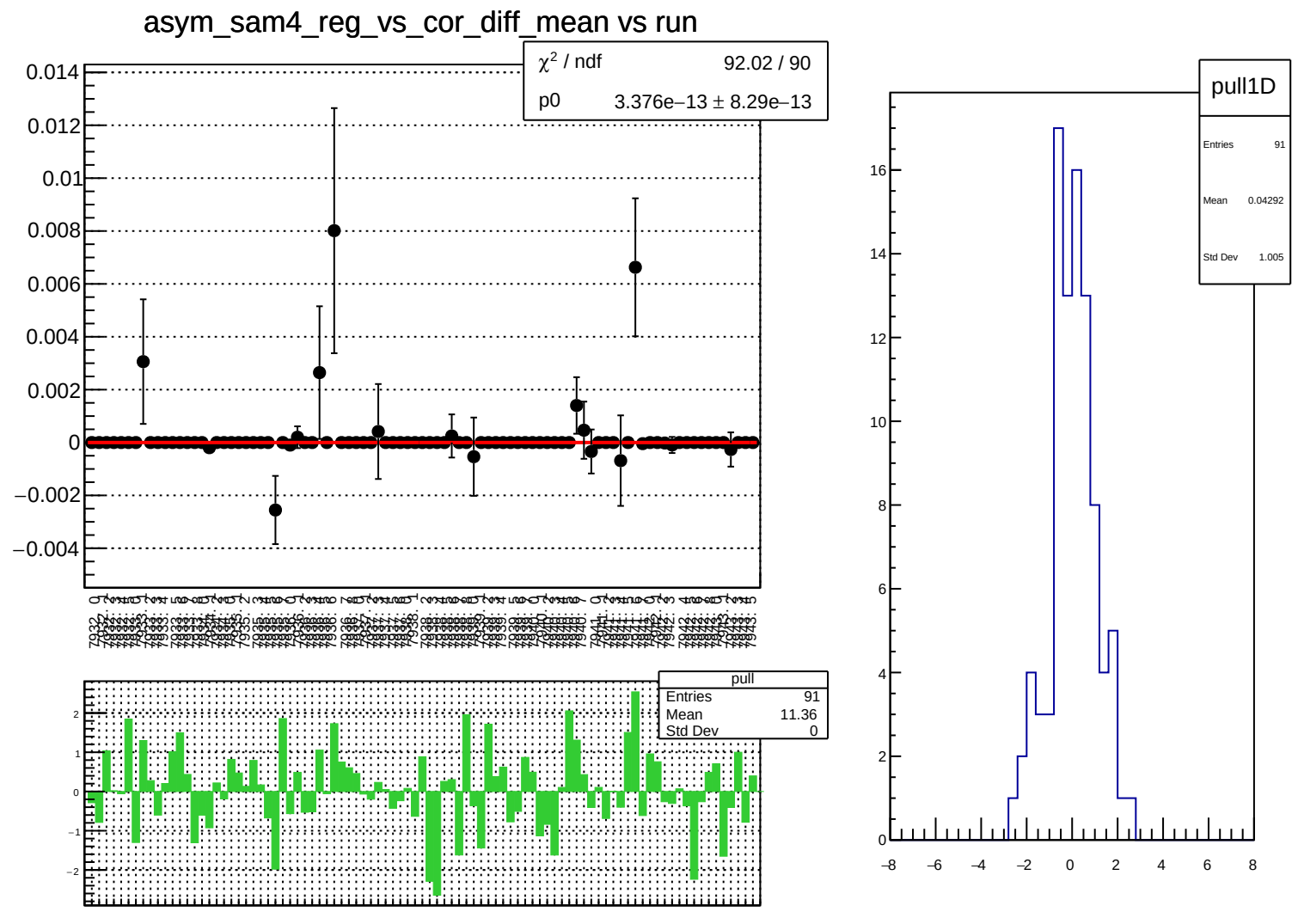

pull1D
Entries 91
Mean 0.003985
Std Dev 1.078

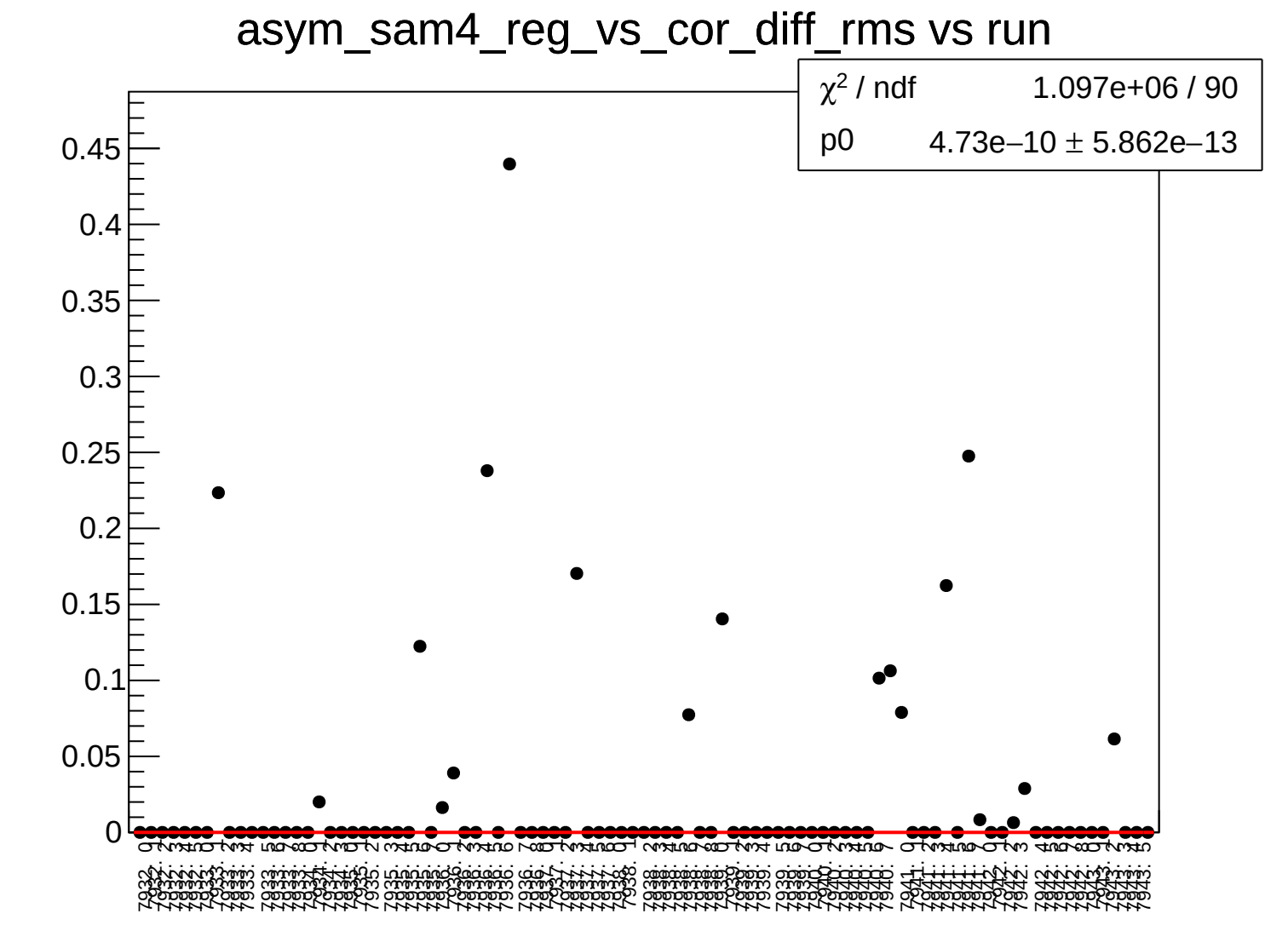

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1036 / 90
p0 5305 ± 4.013
6000
5800
5600
5400
5200
5000

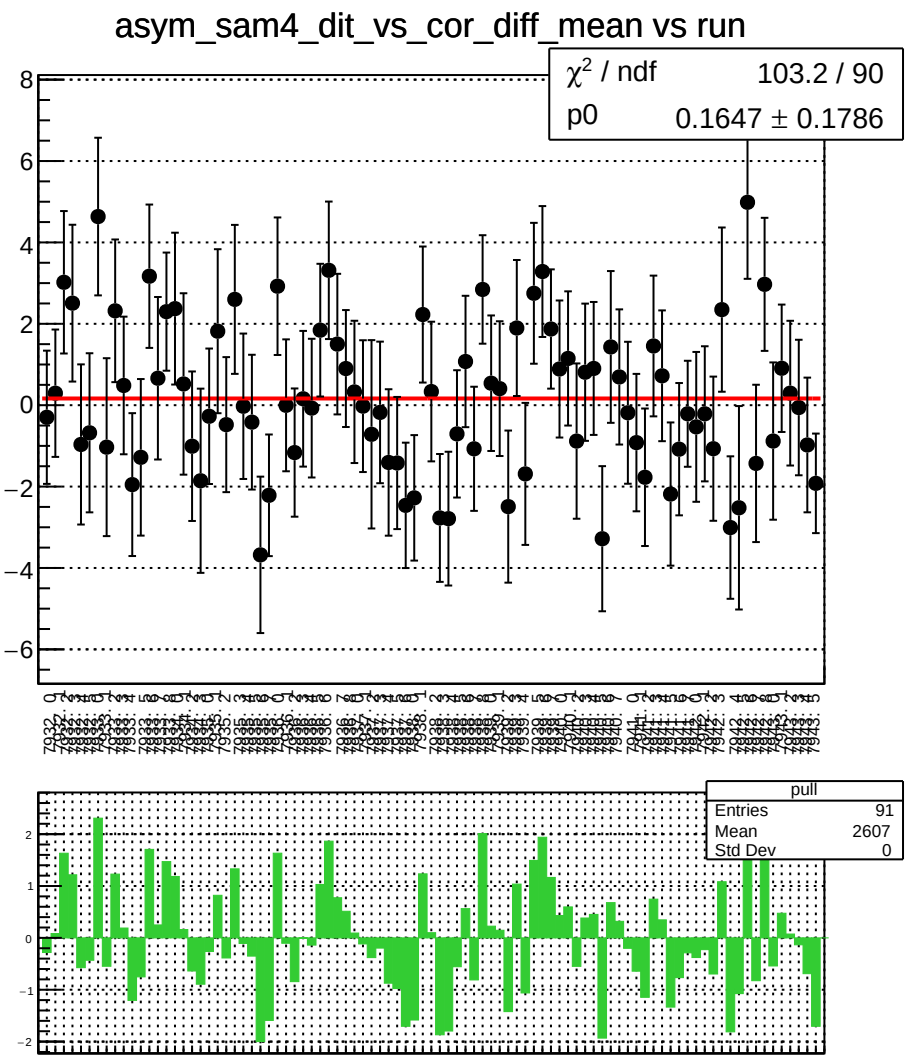

asym_sam4_mean vs run
×10^3
χ^2 / ndf 105.7 / 90
p0 3111 ± 5700
pull
Entries 91
Mean −36.76
Std Dev 44.02

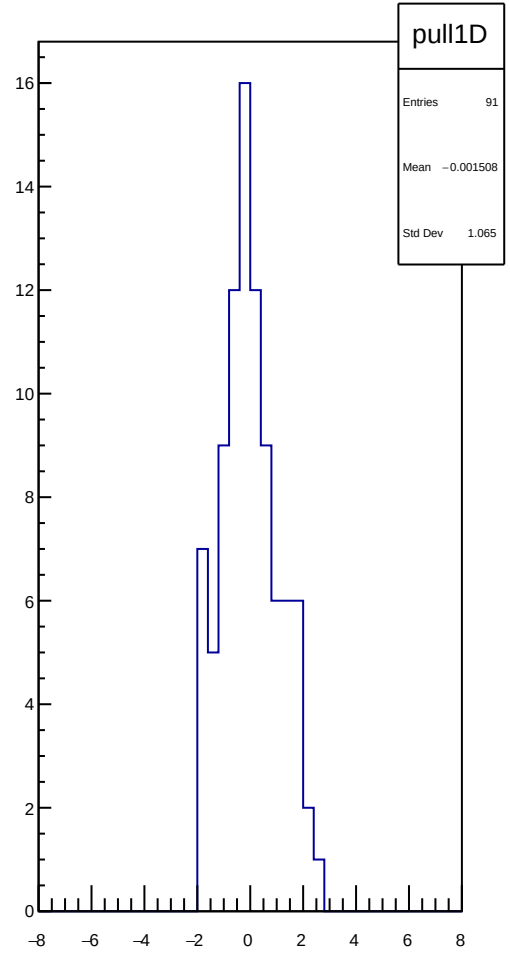

pull1D
Entries 91
Mean −0.002386
Std Dev 1.078

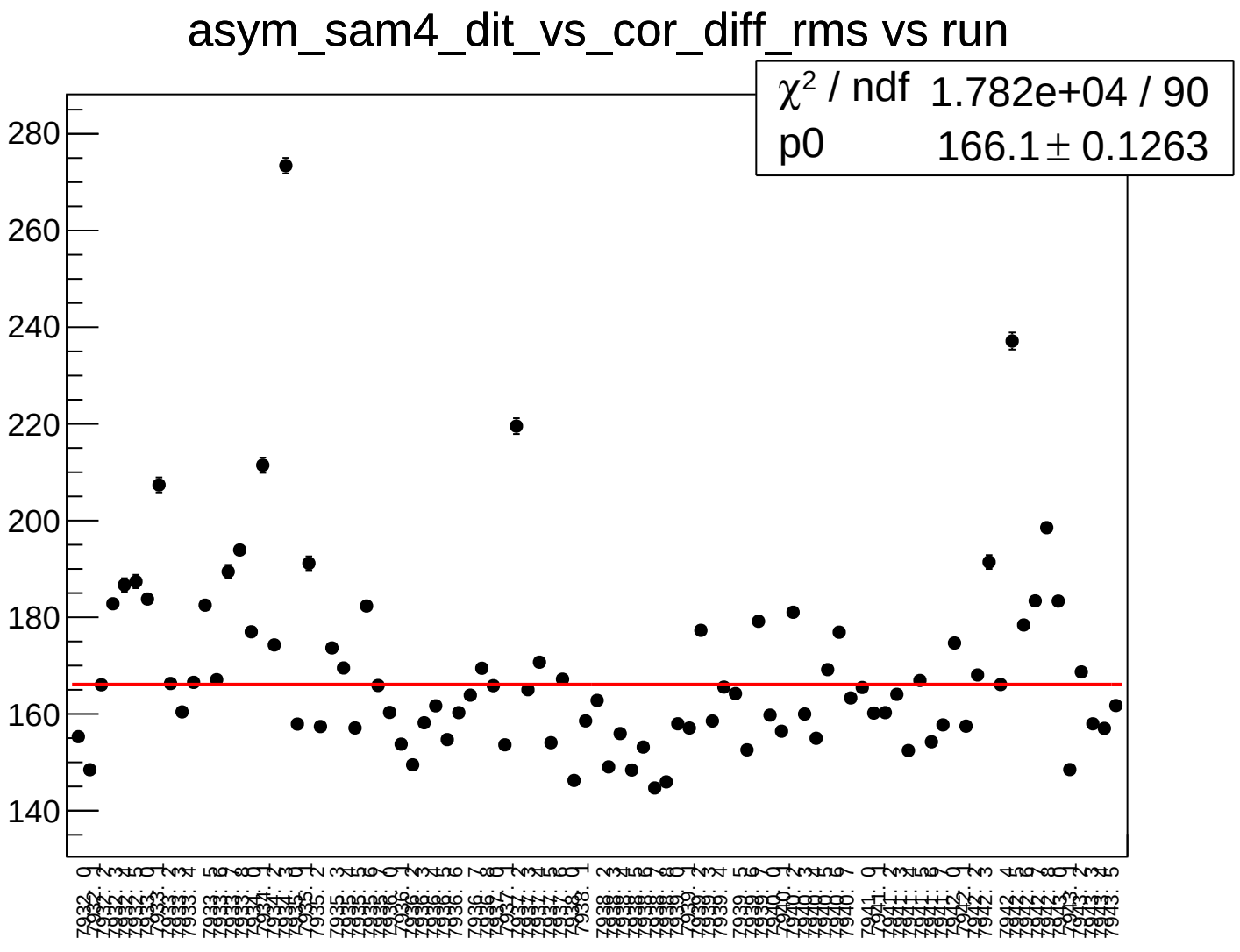

asym_sam4_rms vs run
χ² / ndf 994.5 / 90
p0 5328 ± 4.031
6000
5800
5600
5400
5200
5000

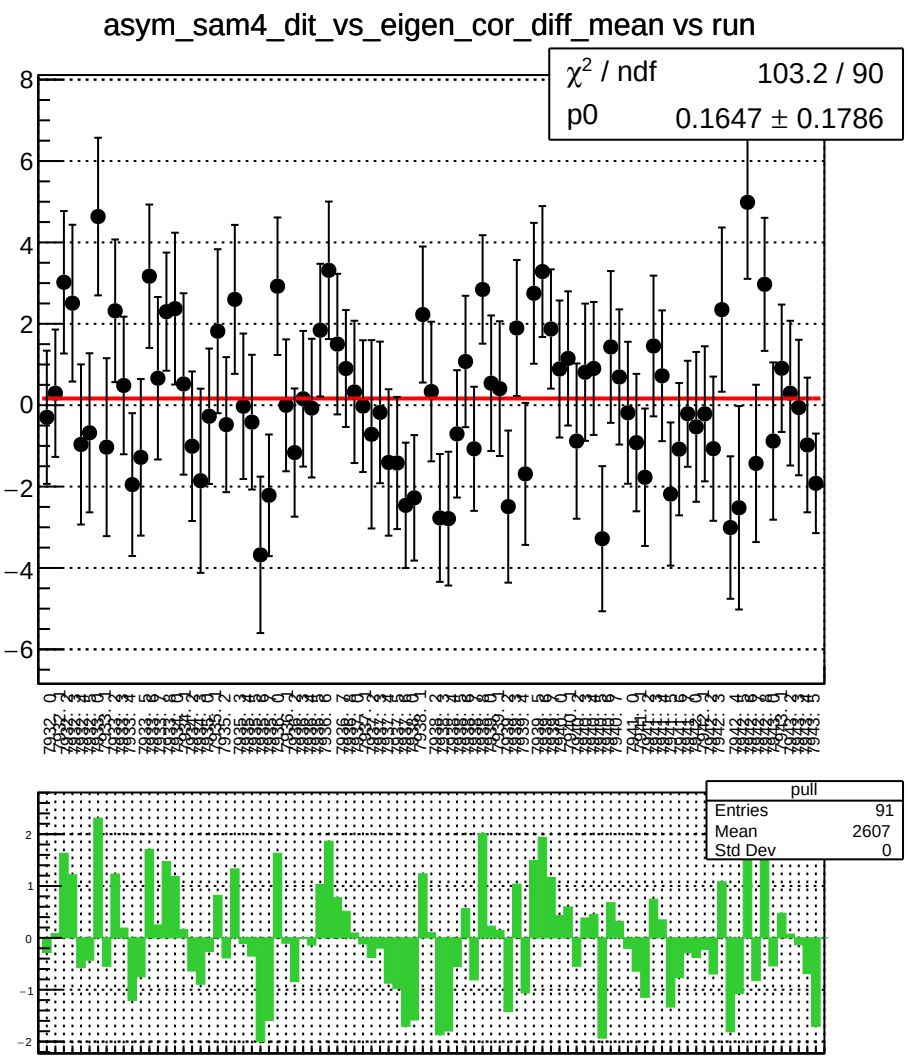

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 92.02 / 90
p0 3.376e−13 ± 8.29e−13
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 91
Mean 11.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.04292
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

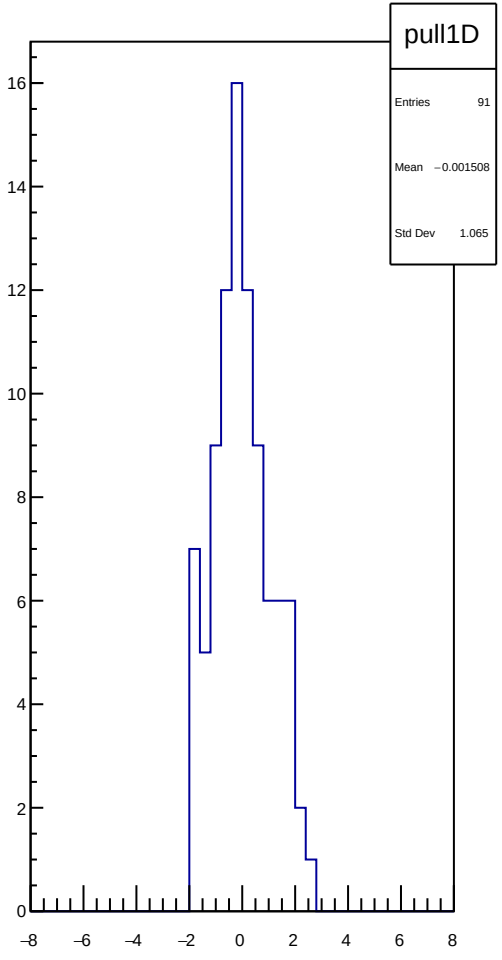

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 90
p0 4.73e−10 ± 5.862e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

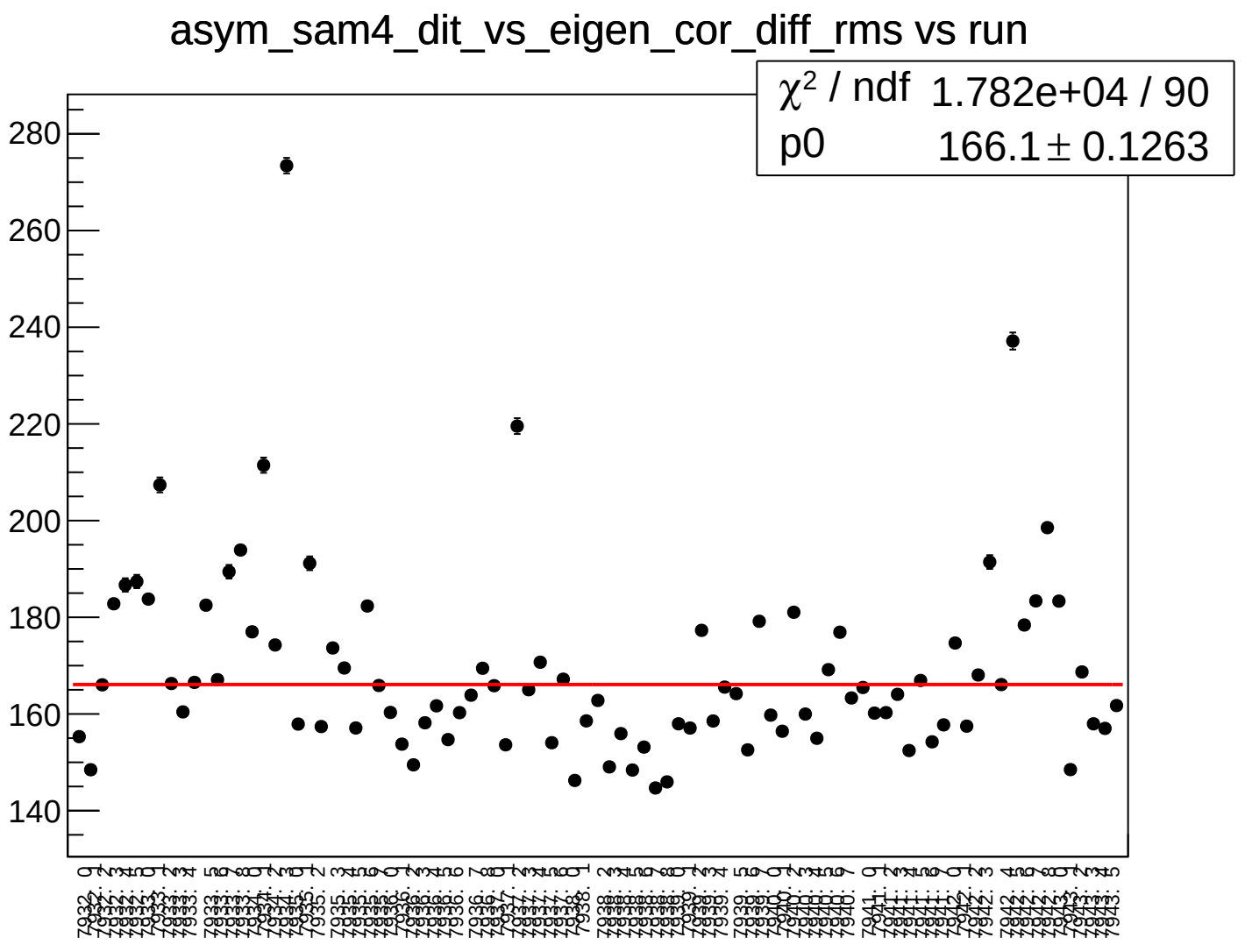

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 90
p0 0.1647 ± 0.1786
pull
Entries 91
Mean 2607
Std Dev 0

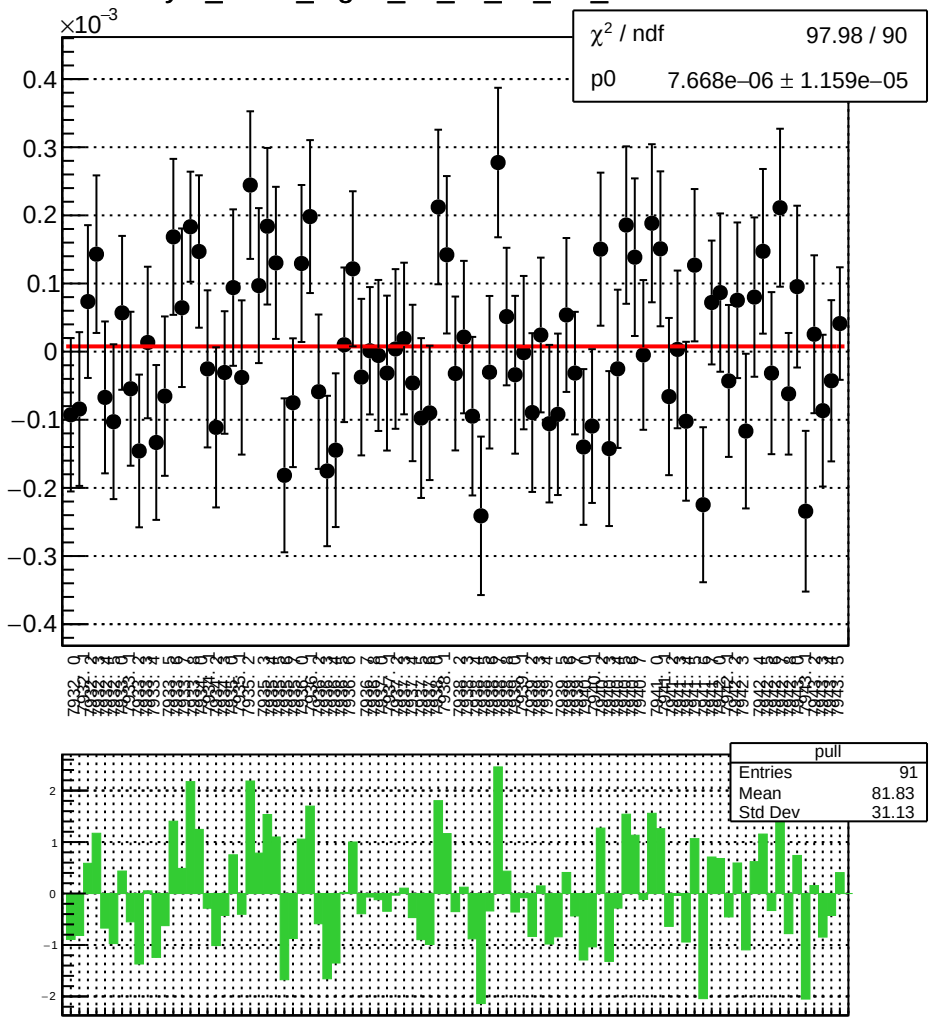

pull1D
Entries 91
Mean −0.001508
Std Dev 1.065

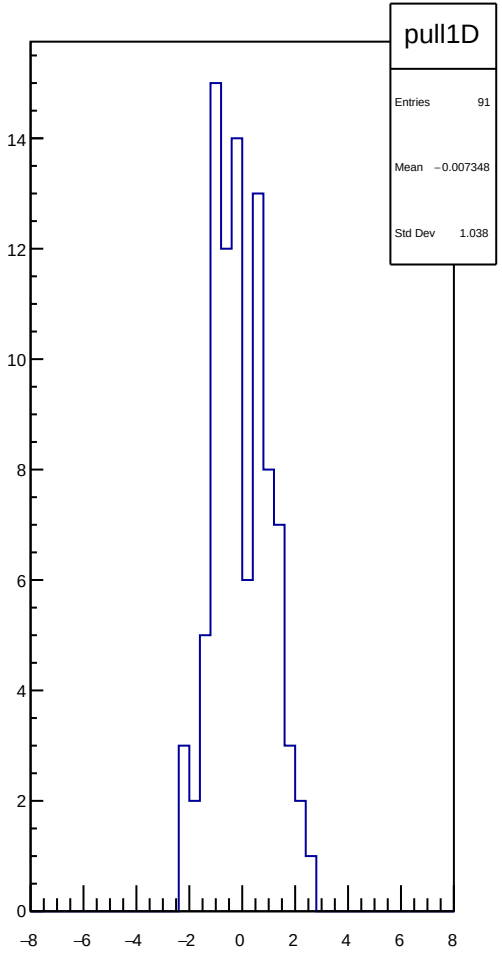

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.782e+04 / 90
p0 166.1 ± 0.1263
280
260
240
220
200
180
160
140

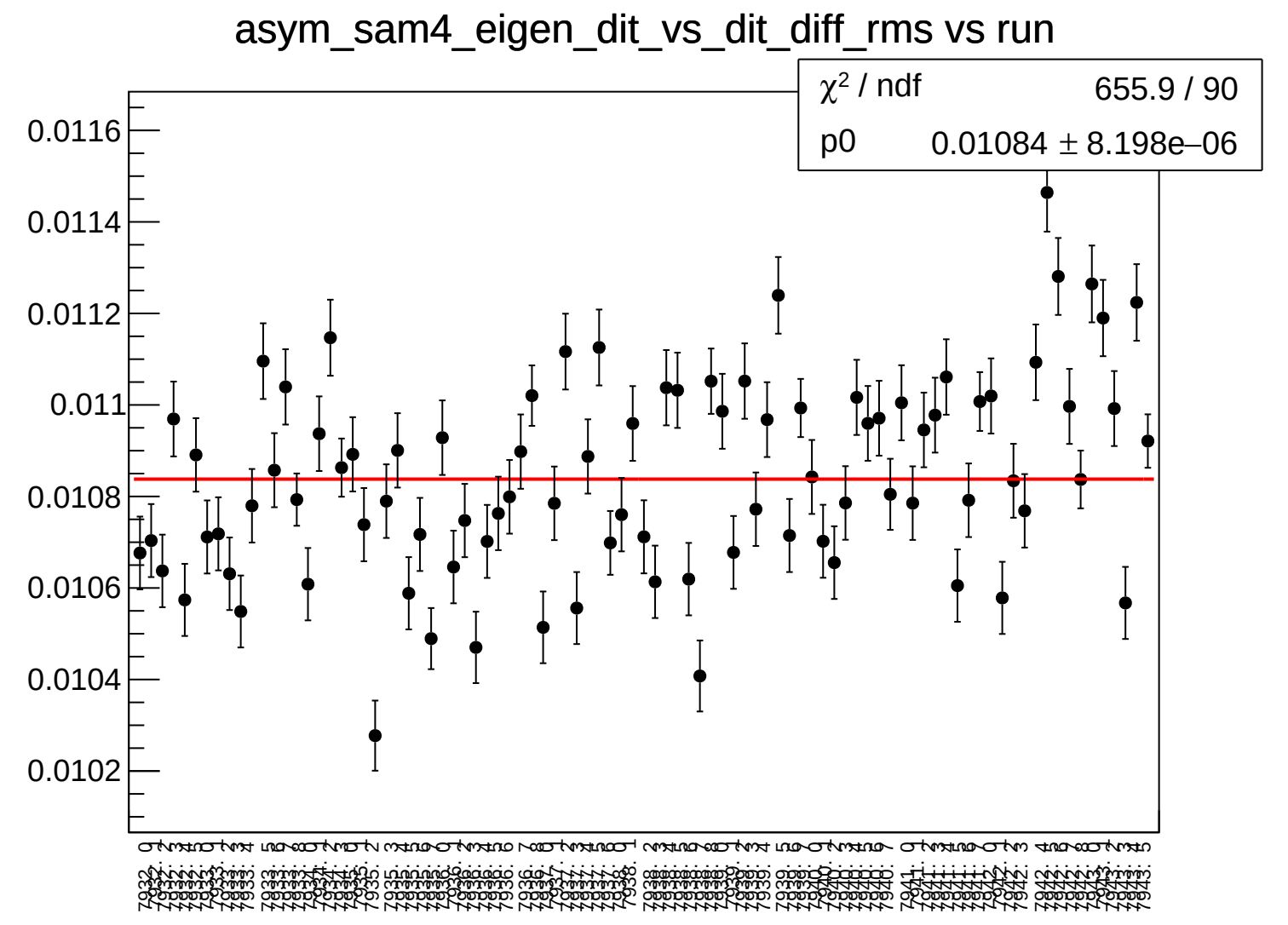

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 90
p0 0.1647 ± 0.1786
pull
Entries 91
Mean 2607
Std Dev 0

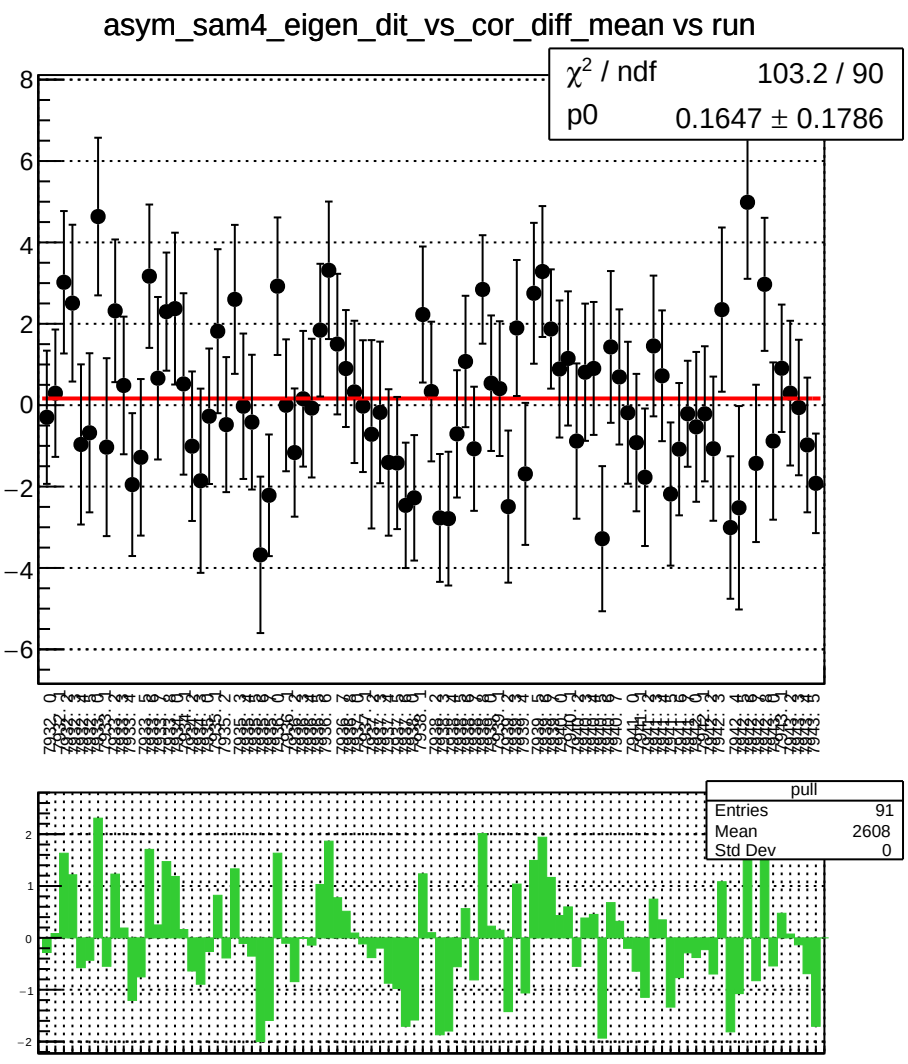

pull1D
Entries 91
Mean −0.001508
Std Dev 1.065

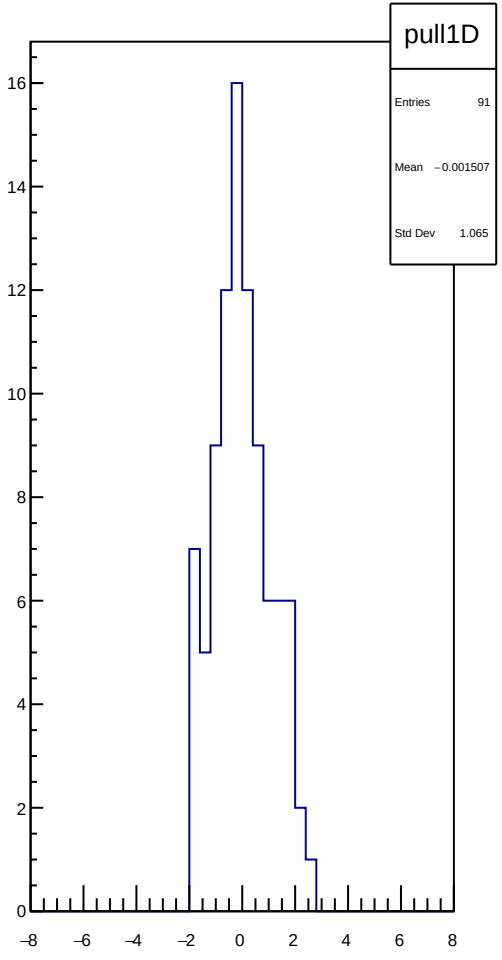

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.782e+04 / 90
p0 166.1 ± 0.1263
280
260
240
220
200
180
160
140

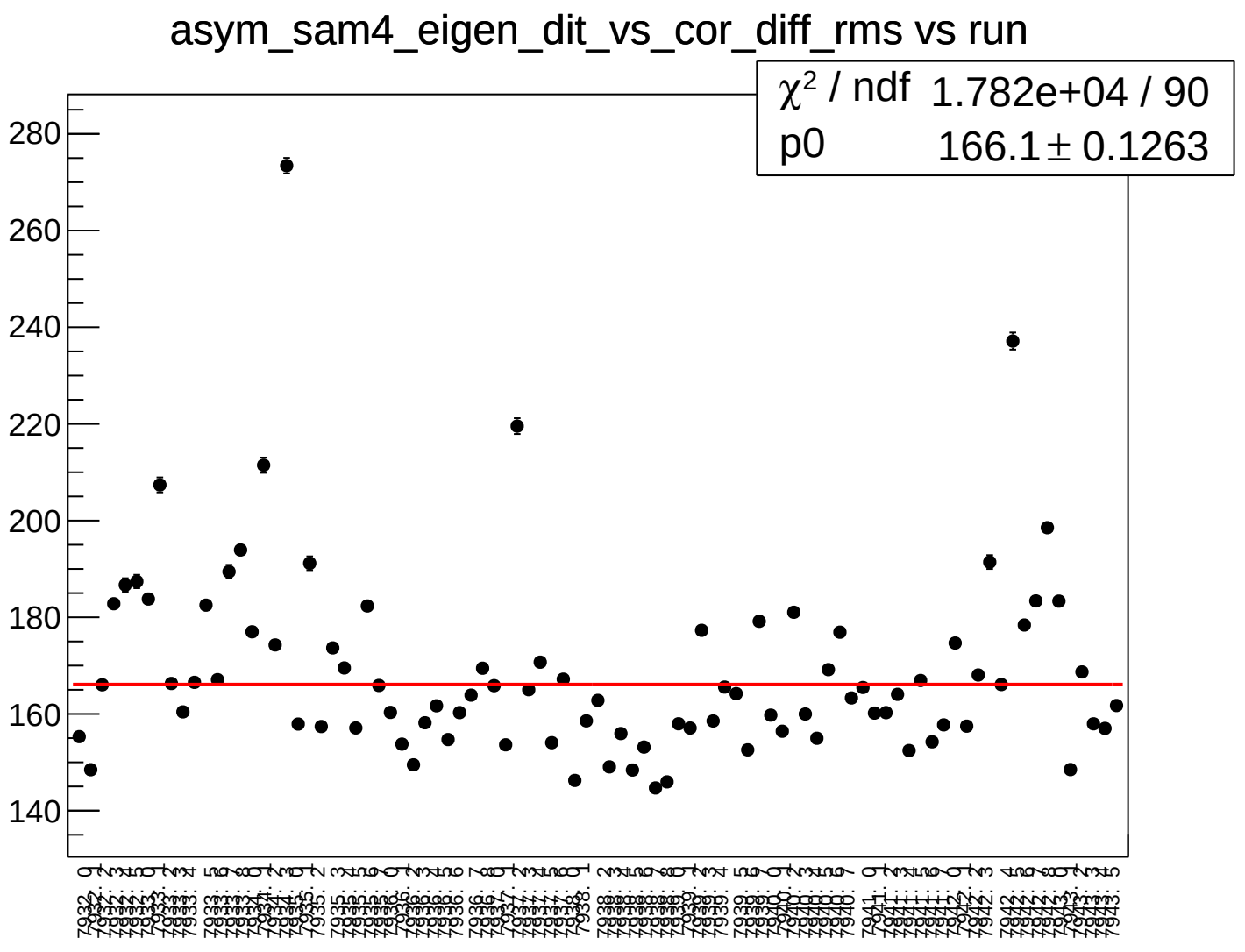

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.98 / 90
p0 7.668e−06 ± 1.159e−05
pull
Entries 91
Mean 81.83
Std Dev 31.13

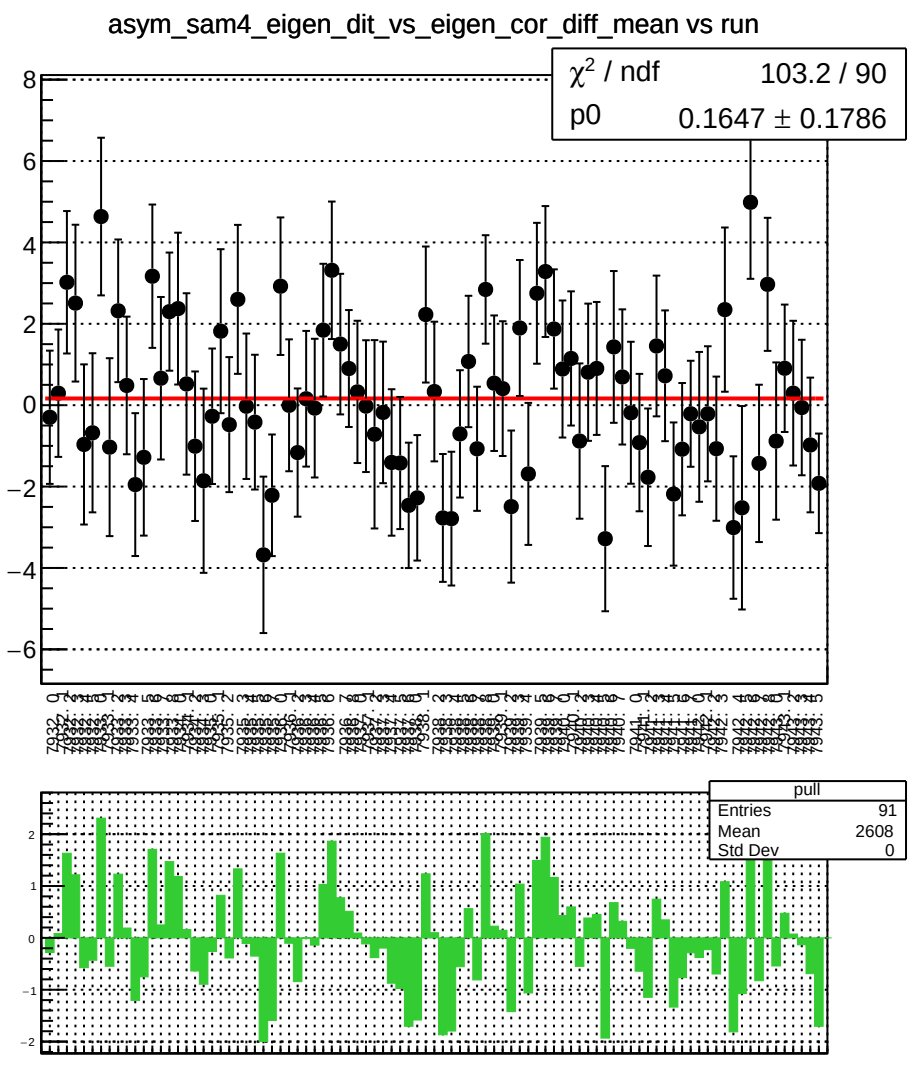

pull1D
Entries 91
Mean −0.007348
Std Dev 1.038

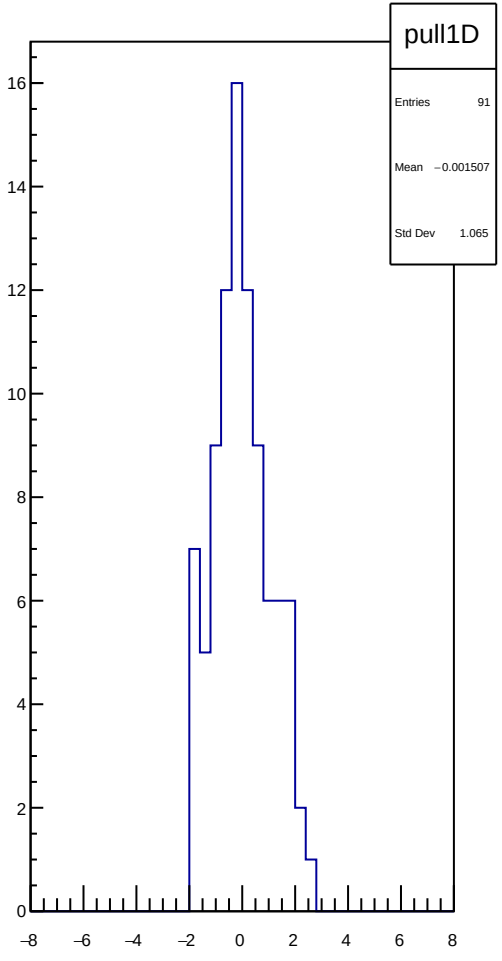

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 655.9 / 90
p0 0.01084 ± 8.198e–06
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
0.0104
0.0102

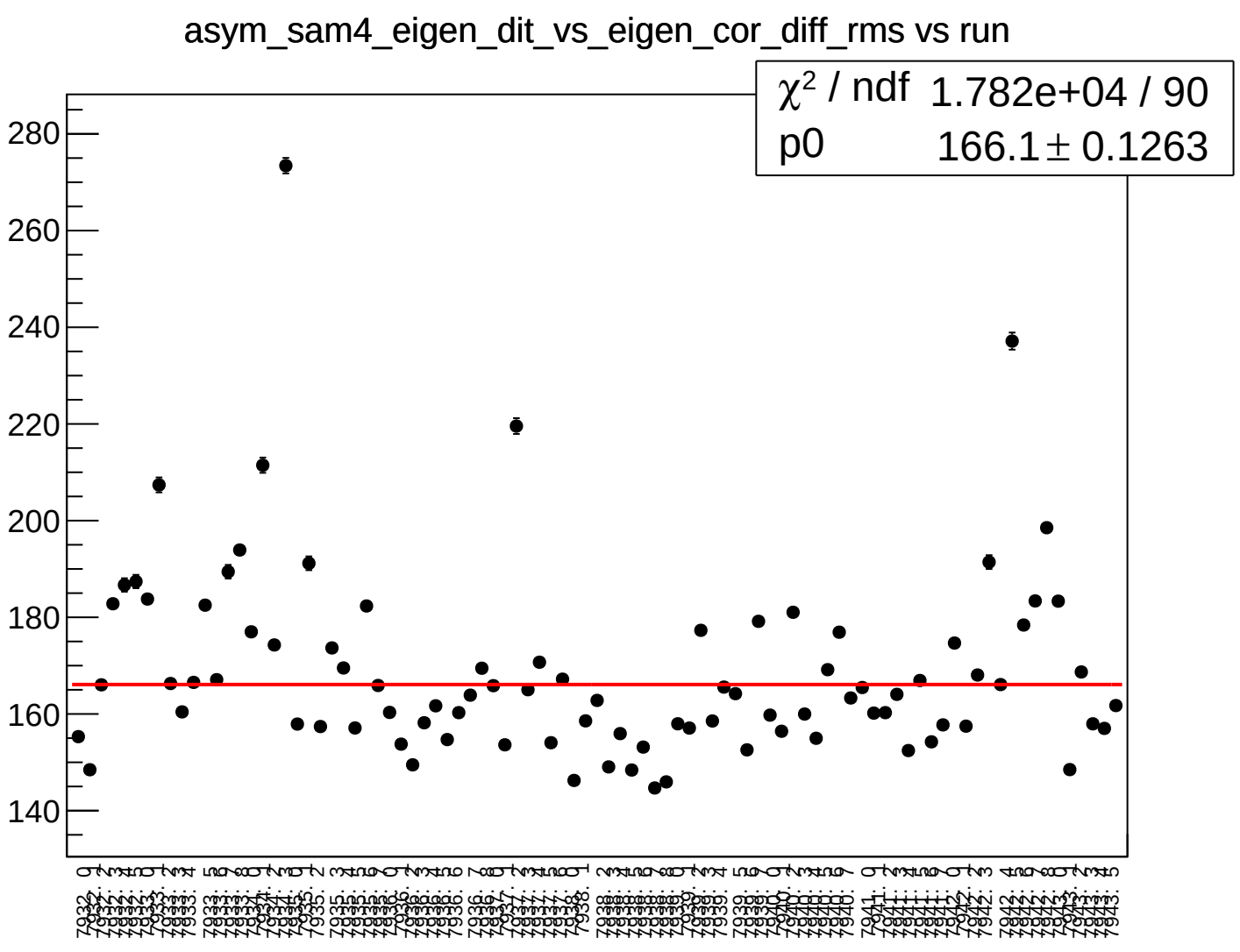

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 90
p0 0.1647 ± 0.1786
pull
Entries 91
Mean 2608
Std Dev 0

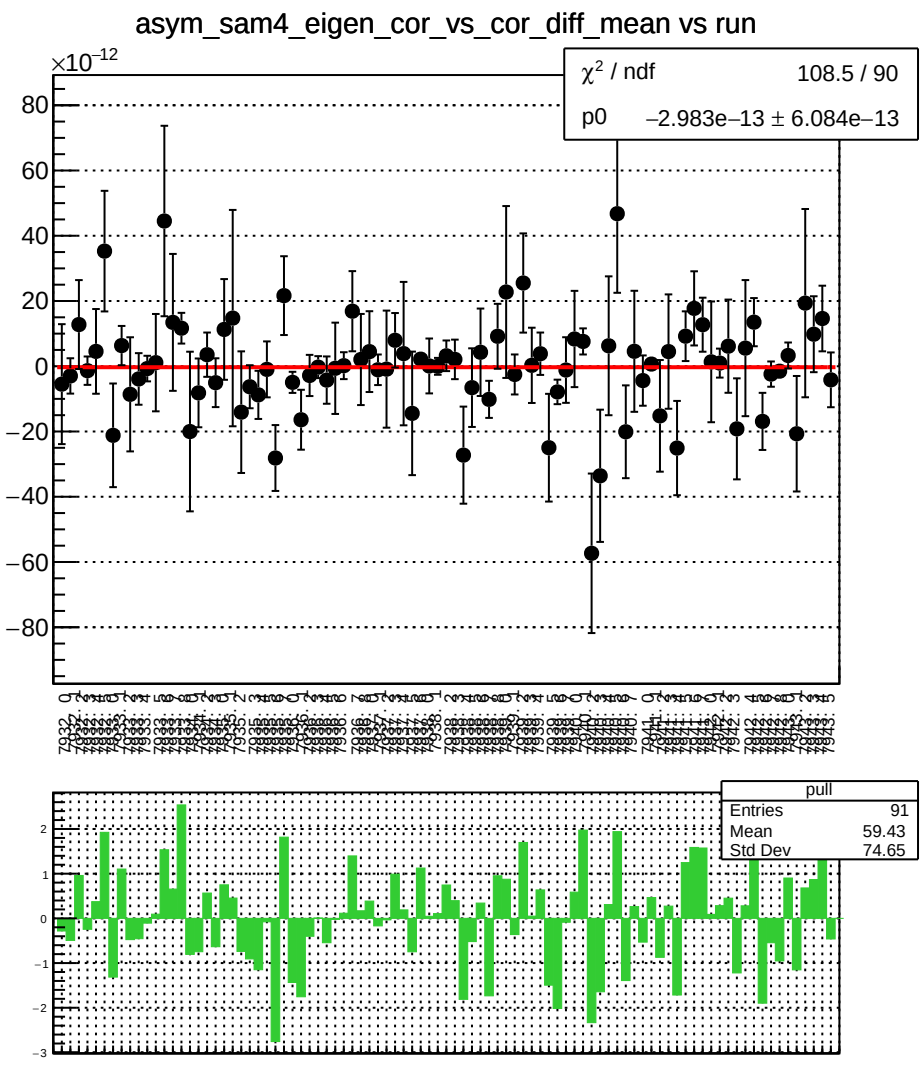

pull1D
Entries 91
Mean −0.001507
Std Dev 1.065

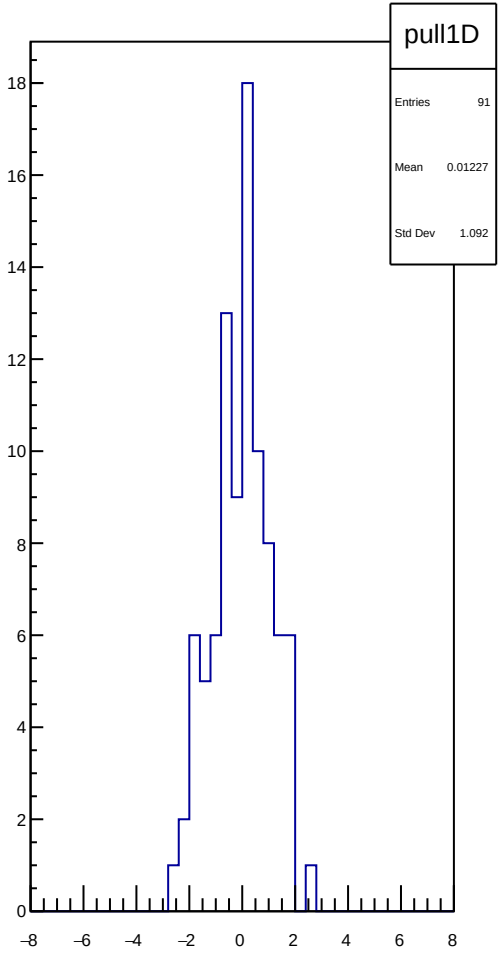

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.782e+04 / 90
p0 166.1 ± 0.1263
280
260
240
220
200
180
160
140

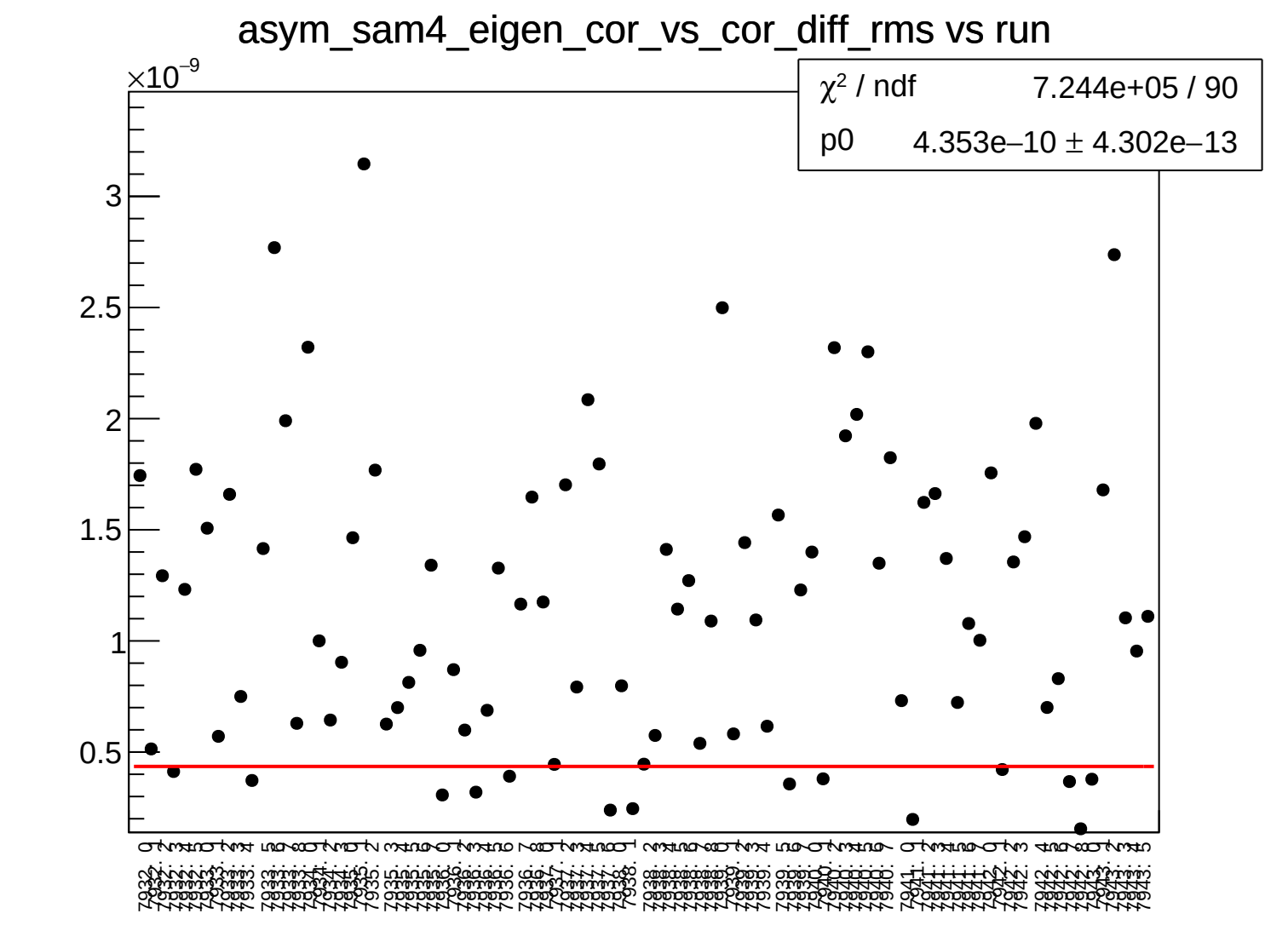

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 90
p0 0.1647 ± 0.1786
pull
Entries 91
Mean 2608
Std Dev 0

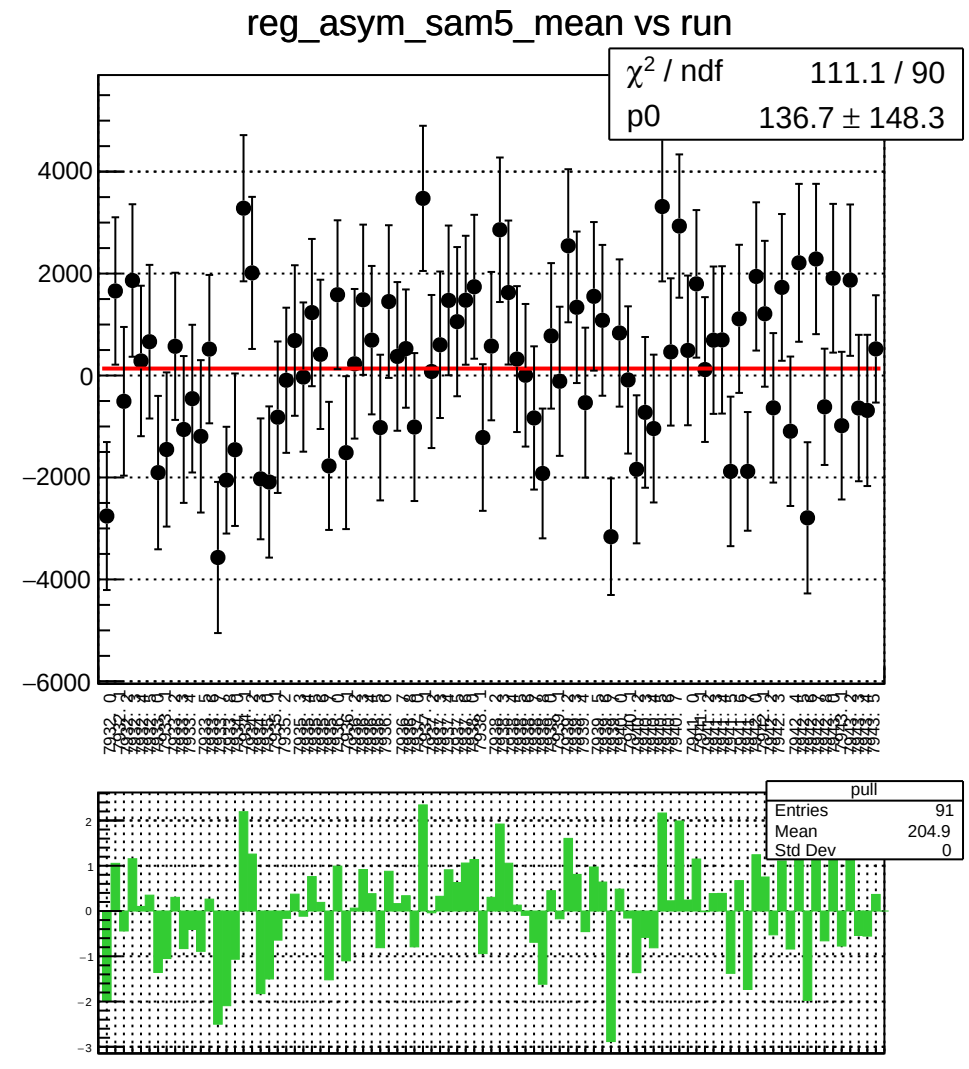

pull1D
Entries 91
Mean −0.001507
Std Dev 1.065

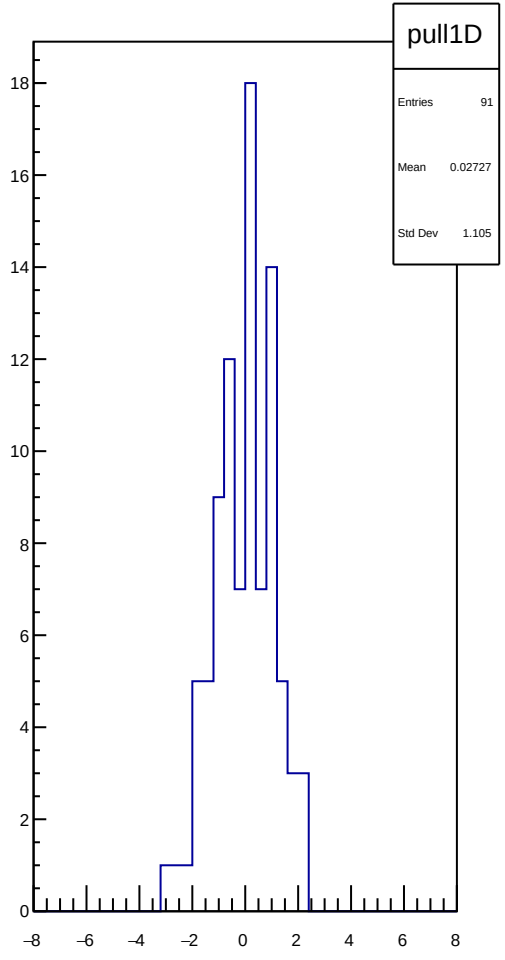

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.782e+04 / 90
p0 166.1 ± 0.1263
280
260
240
220
200
180
160
140

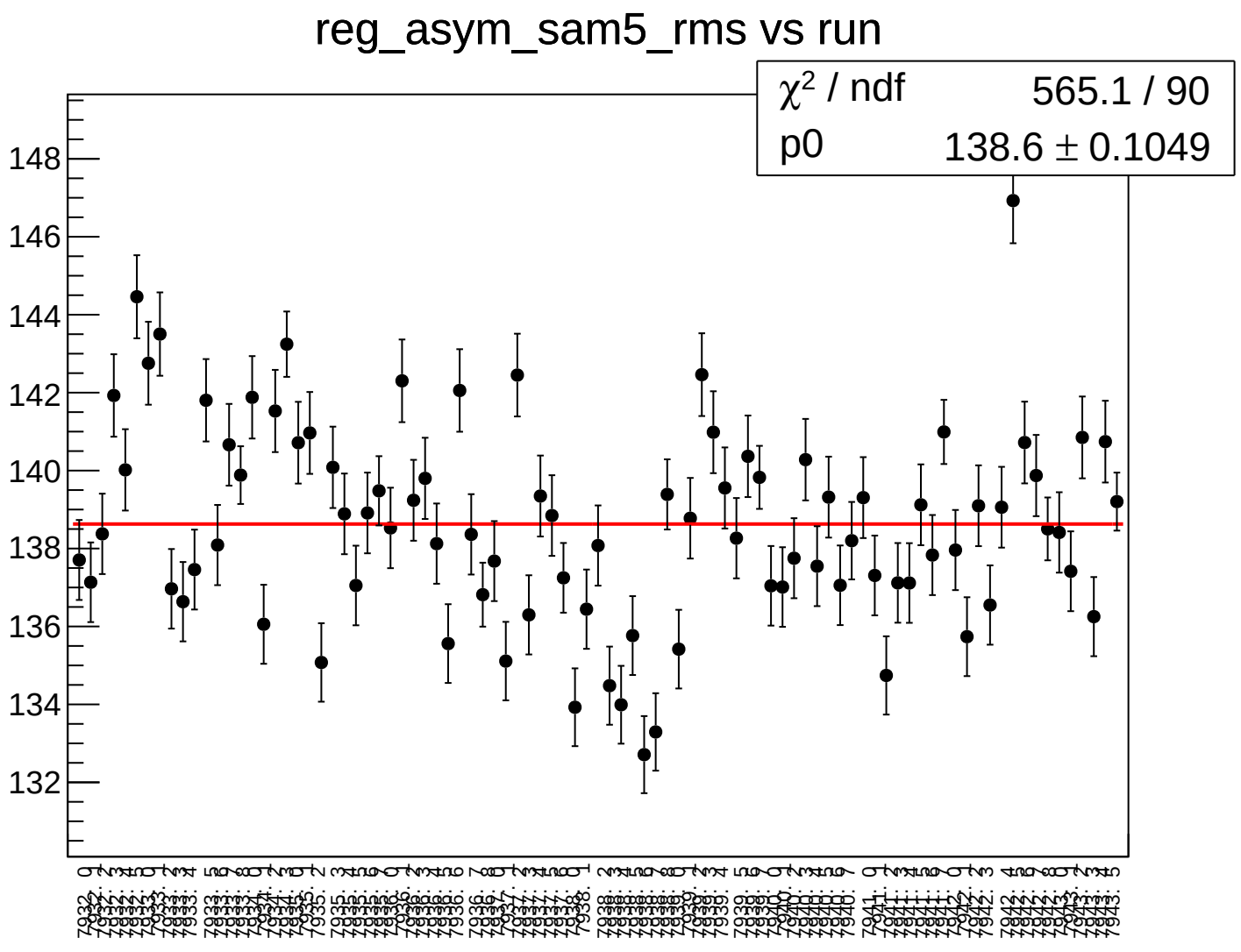

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.5 / 90
p0 −2.983e−13 ± 6.084e−13
pull
Entries 91
Mean 59.43
Std Dev 74.65

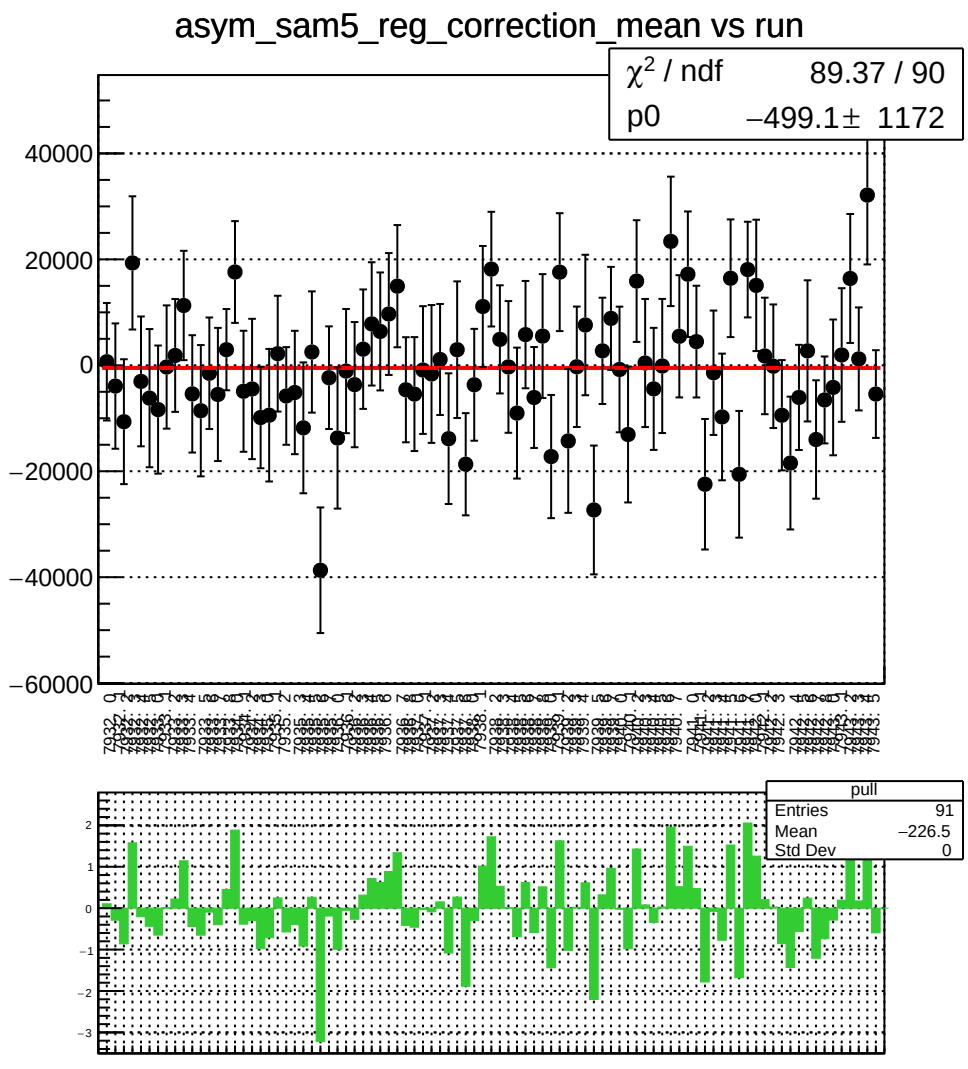

pull1D
Entries 91
Mean 0.01227
Std Dev 1.092

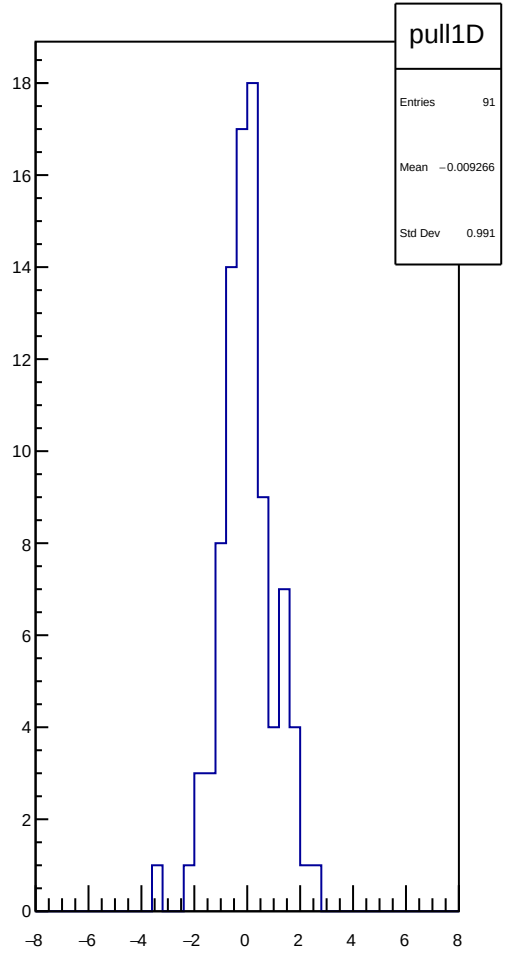

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.244e+05 / 90
p0 4.353e−10 ± 4.302e−13
3
2.5
2
1.5
1
0.5

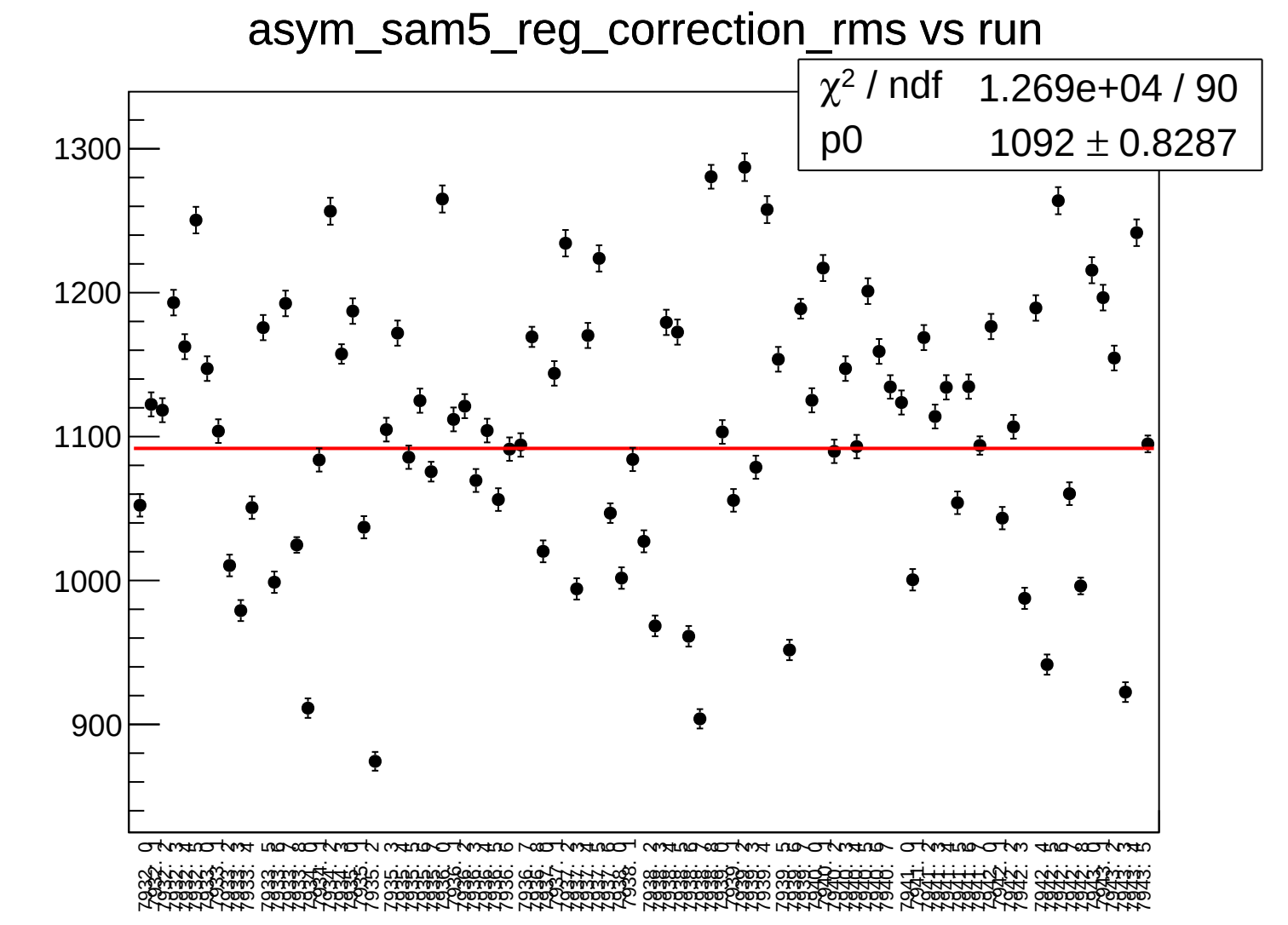

reg_asym_sam5_mean vs run
χ² / ndf 111.1 / 90
p0 136.7 ± 148.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 204.9
Std Dev 0
2
1
0
−1
−2
−3

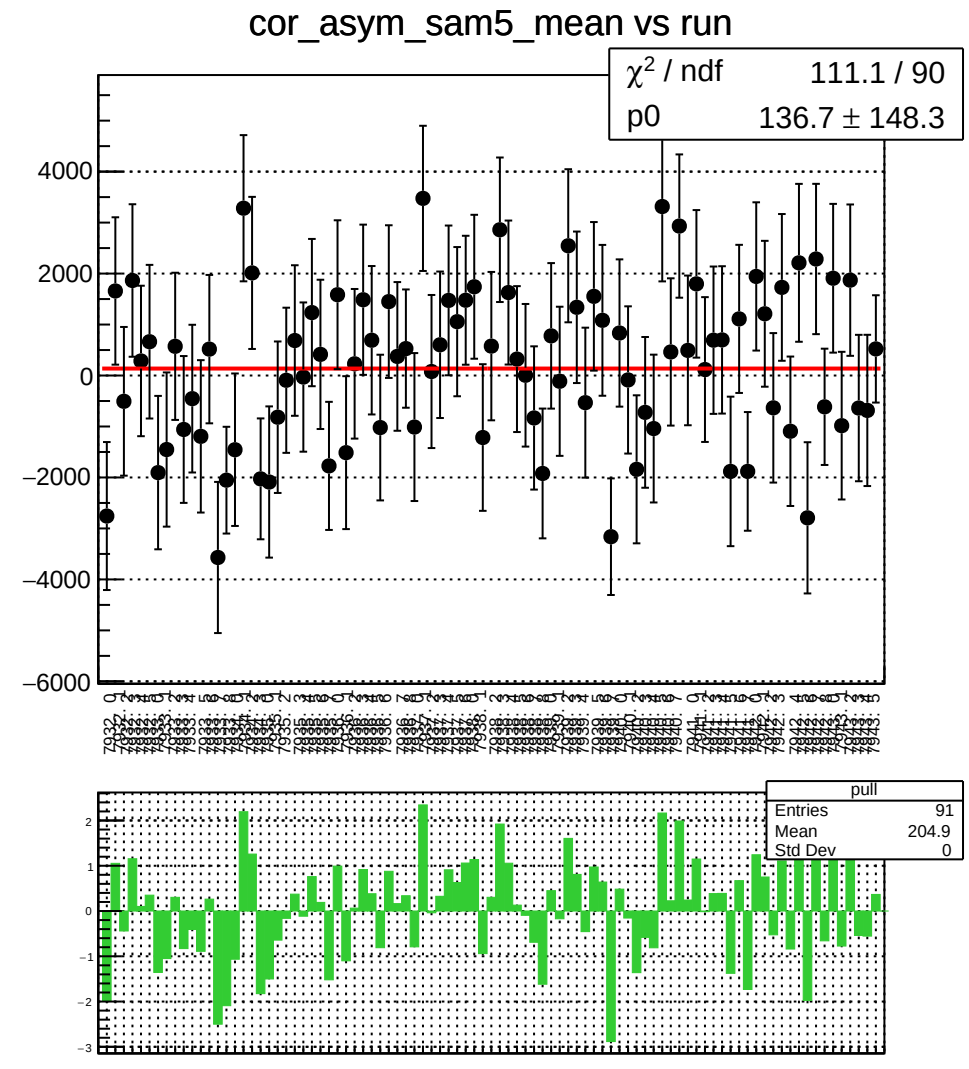

pull1D
Entries 91
Mean 0.02727
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

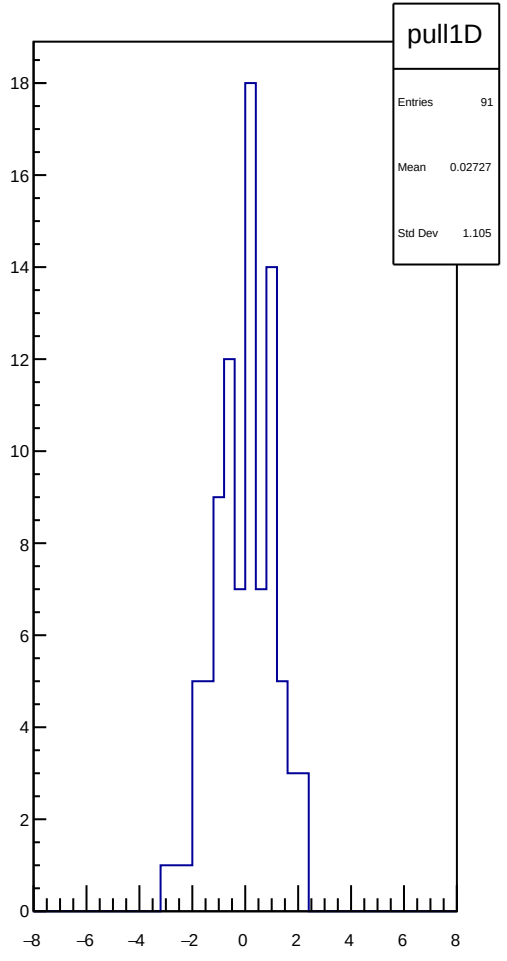

reg_asym_sam5_rms vs run
χ² / ndf 565.1 / 90
p0 138.6 ± 0.1049
148
146
144
142
140
138
136
134
132

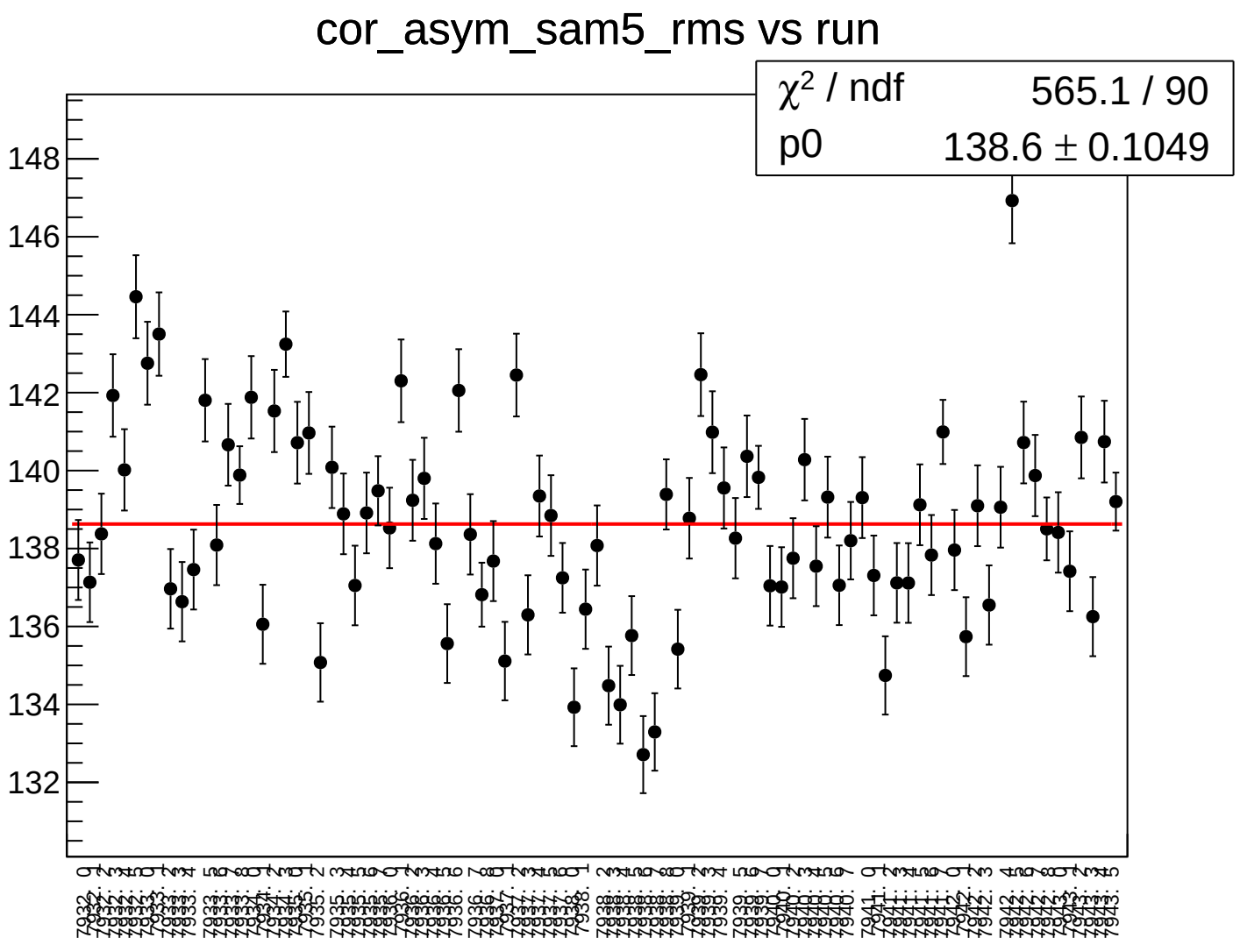

asym_sam5_reg_correction_mean vs run
χ² / ndf 89.37 / 90
p0 −499.1± 1172
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −226.5
Std Dev 0
2
1
0
−1
−2
−3

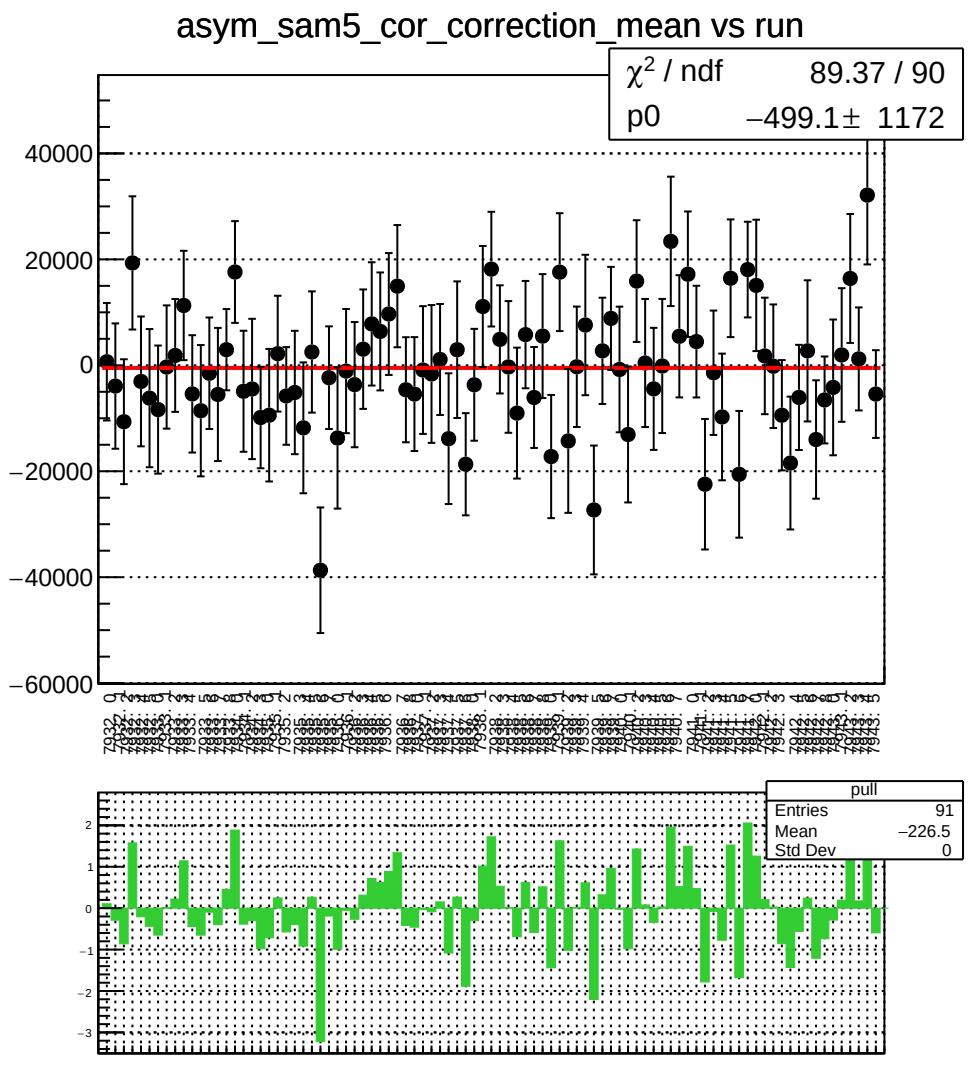

pull1D
Entries 91
Mean −0.009266
Std Dev 0.991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

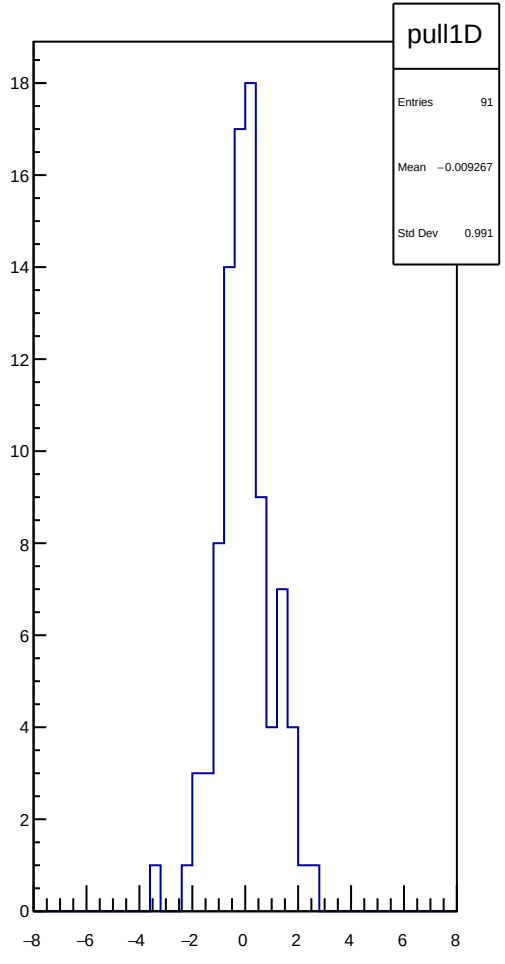

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.269e+04 / 90
p0 1092 ± 0.8287
1300
1200
1100
1000
900

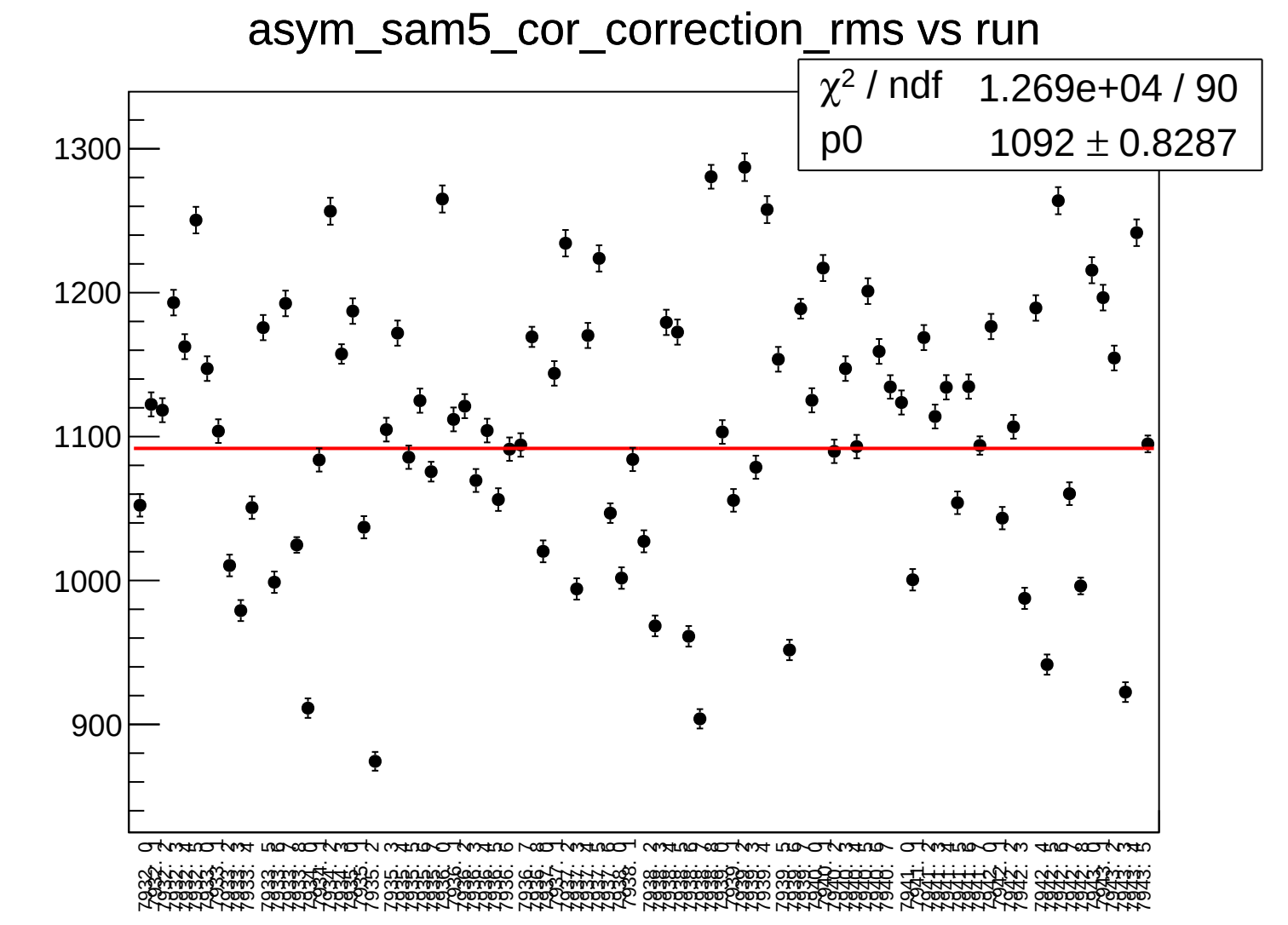

cor_asym_sam5_mean vs run
χ² / ndf 111.1 / 90
p0 136.7 ± 148.3
pull
Entries 91
Mean 204.9
Std Dev 0

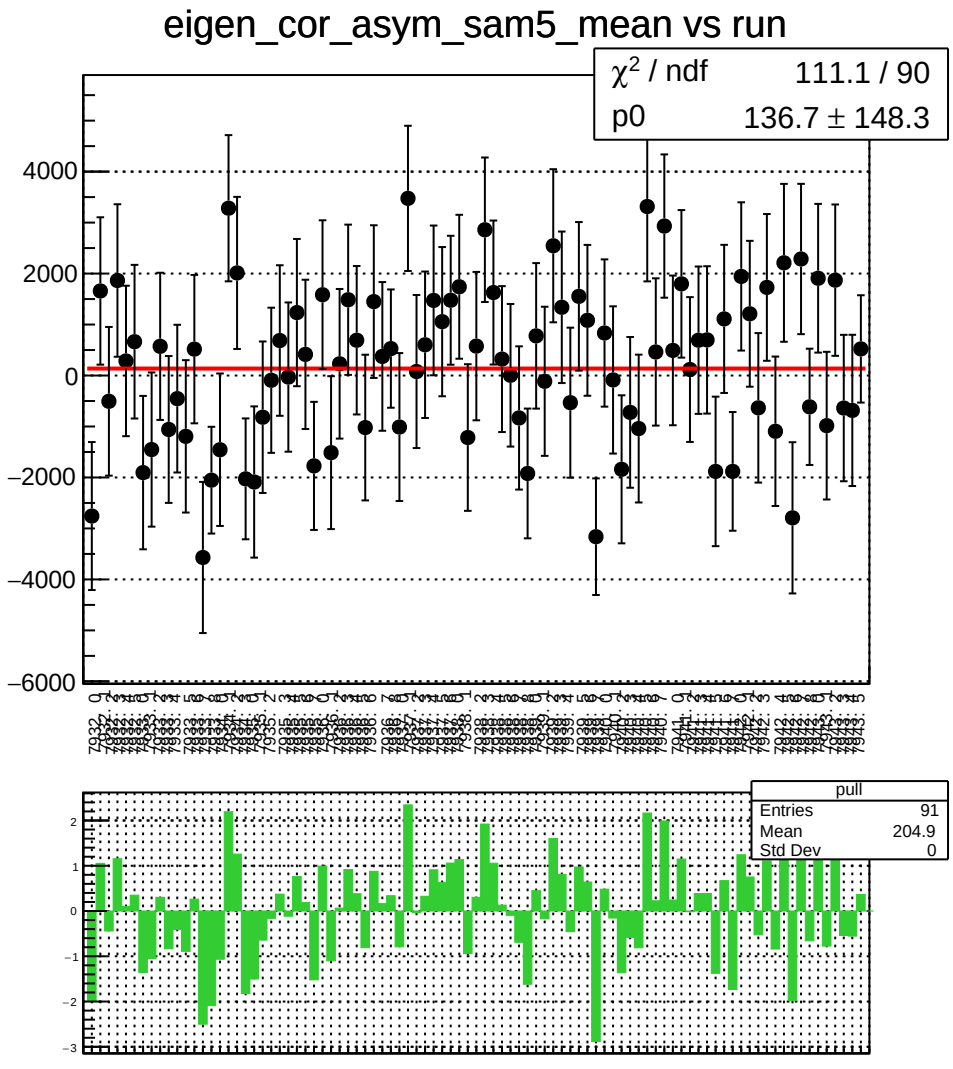

pull1D
Entries 91
Mean 0.02727
Std Dev 1.105

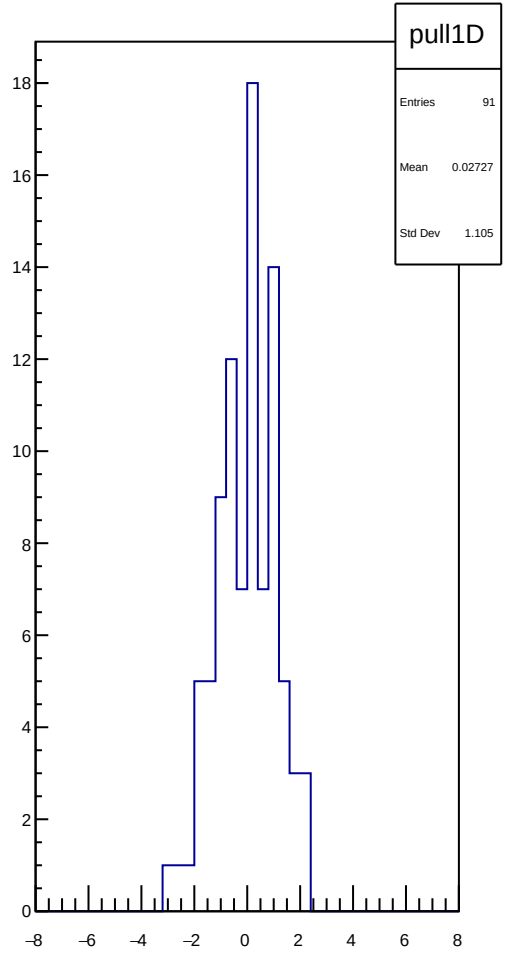

cor_asym_sam5_rms vs run
χ² / ndf 565.1 / 90
p0 138.6 ± 0.1049
148
146
144
142
140
138
136
134
132

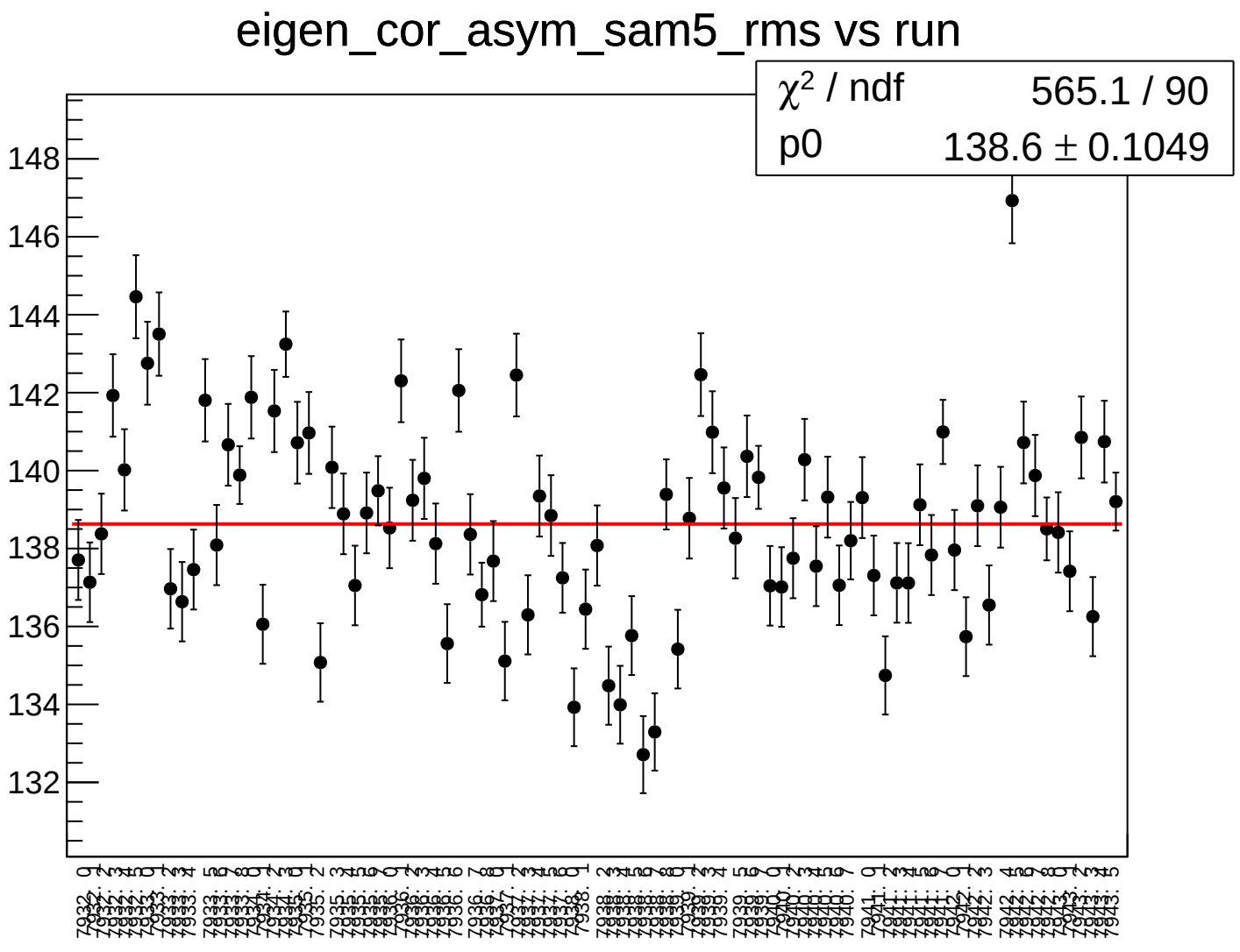

asym_sam5_cor_correction_mean vs run
χ² / ndf 89.37 / 90
p0 −499.1± 1172
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −226.5
Std Dev 0
2
1
0
−1
−2
−3

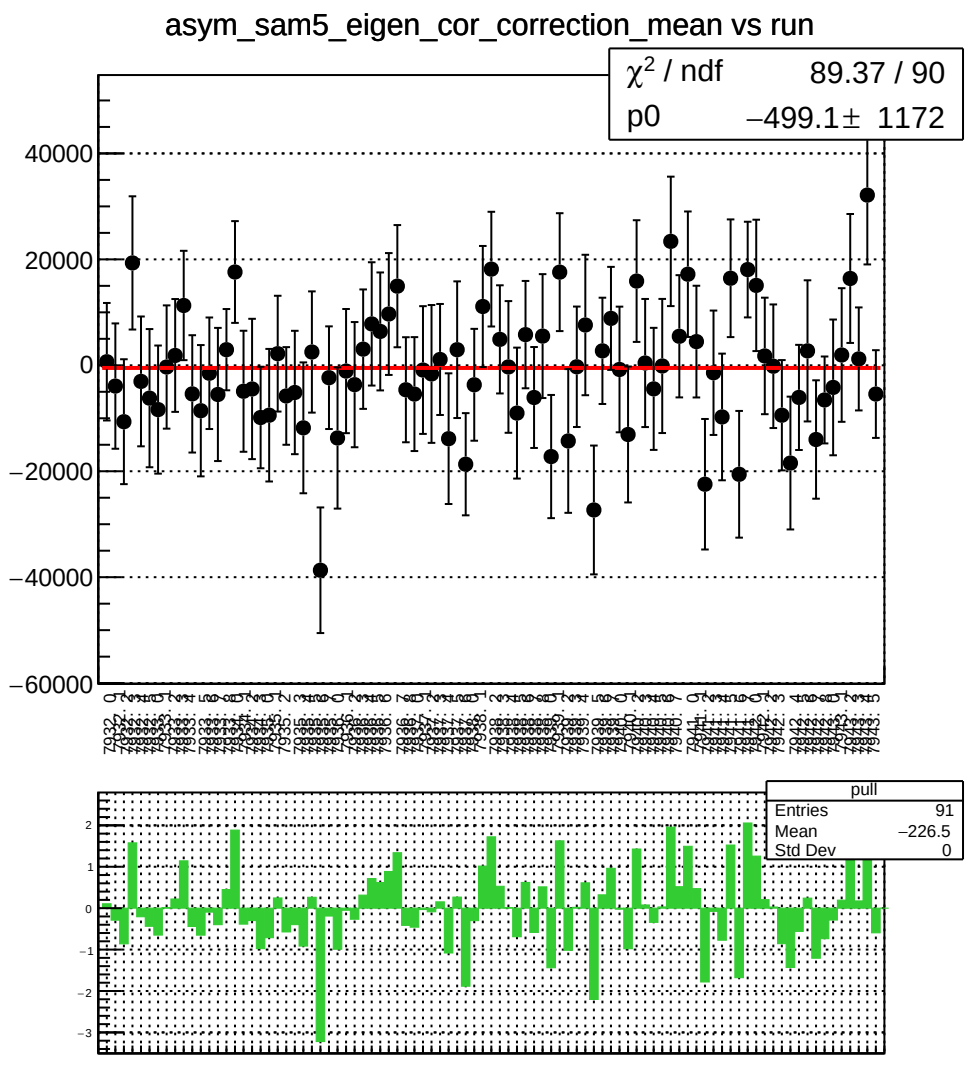

pull1D
Entries 91
Mean −0.009267
Std Dev 0.991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

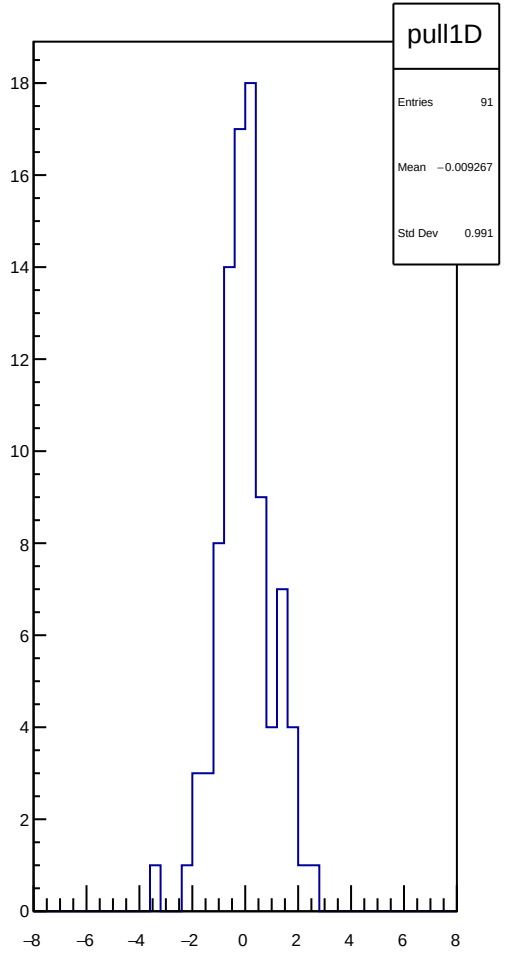

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.269e+04 / 90
p0 1092 ± 0.8287
1300
1200
1100
1000
900

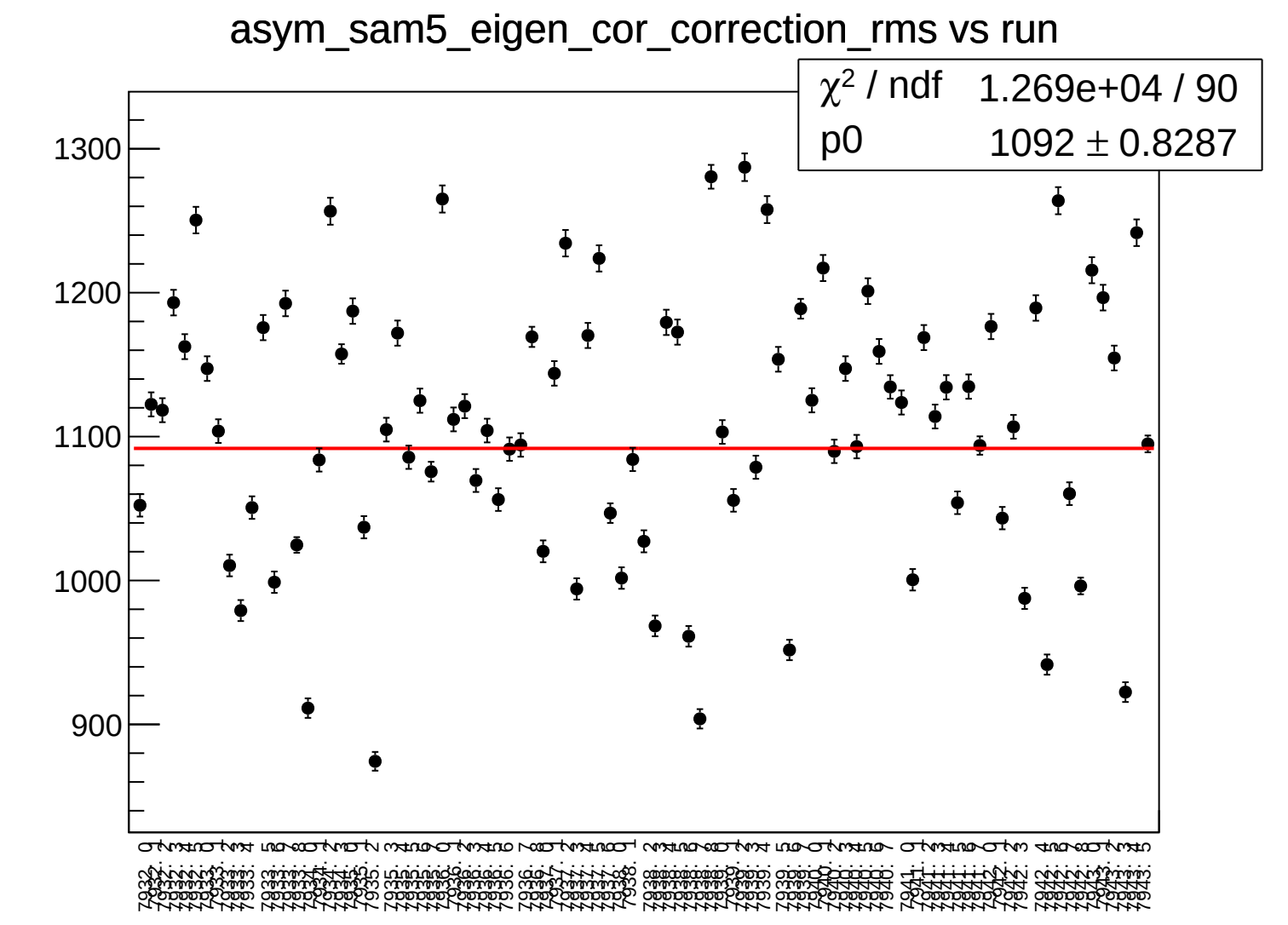

eigen_cor_asym_sam5_mean vs run
χ² / ndf 111.1 / 90
p0 136.7 ± 148.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 204.9
Std Dev 0
2
1
0
−1
−2
−3

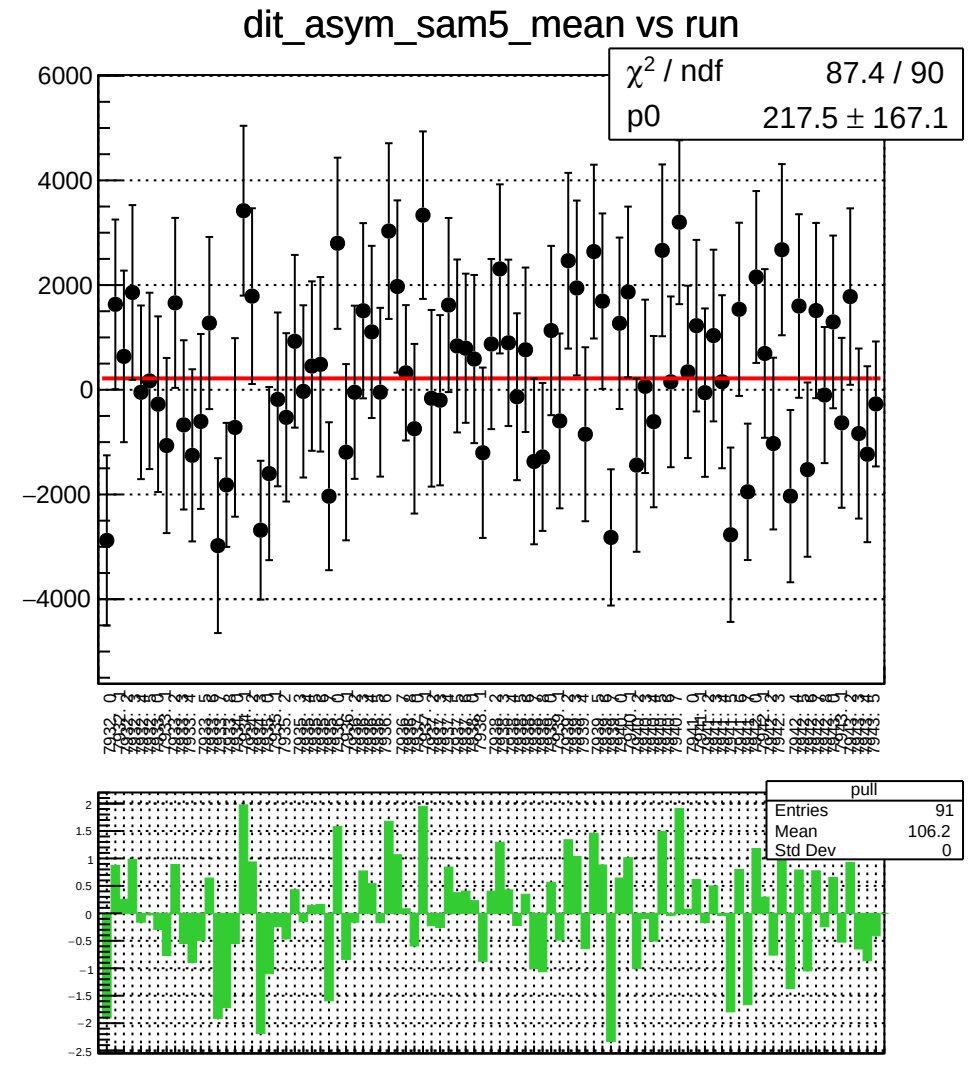

pull1D
Entries 91
Mean 0.02727
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

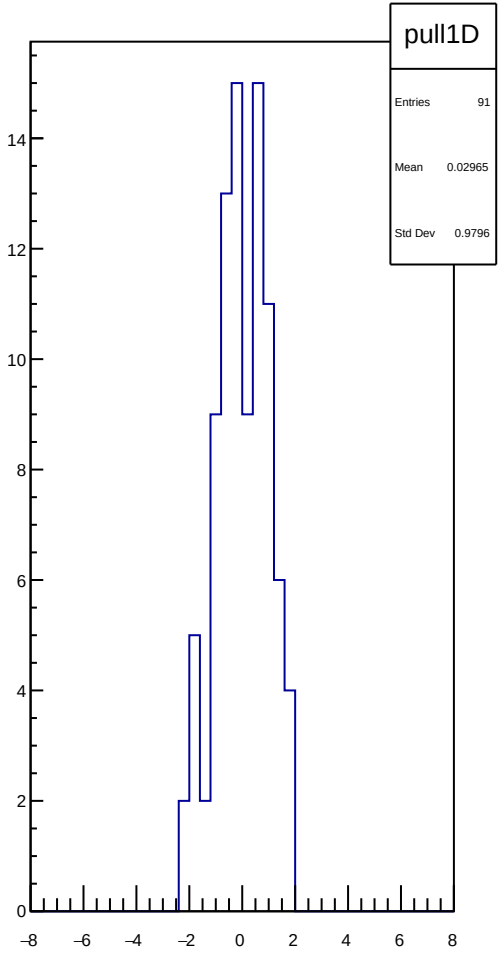

eigen_cor_asym_sam5_rms vs run
χ^2 / ndf 565.1 / 90
p0 138.6 ± 0.1049
148
146
144
142
140
138
136
134
132

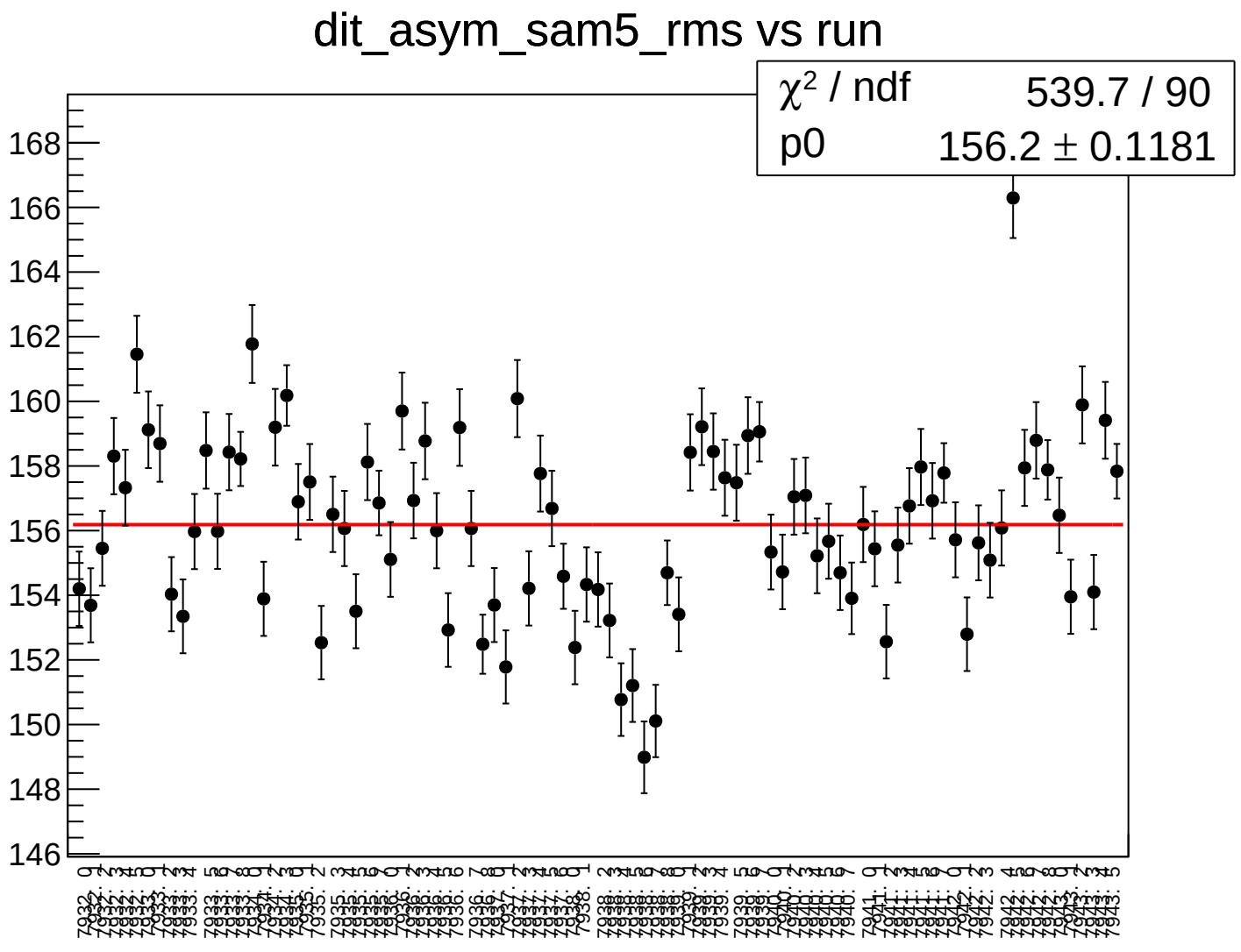

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 89.37 / 90
p0 −499.1± 1172
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −226.5
Std Dev 0
2
1
0
−1
−2
−3

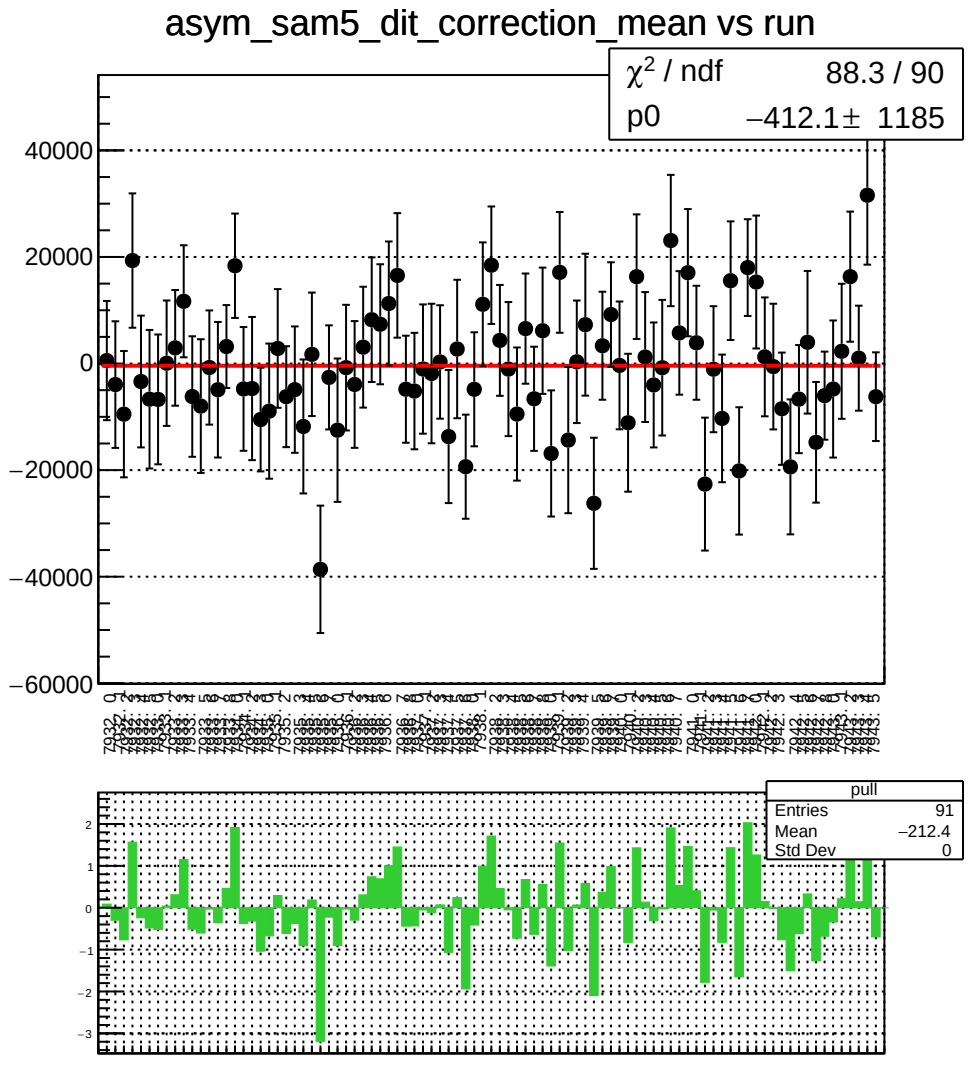

pull1D
Entries 91
Mean −0.009267
Std Dev 0.991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

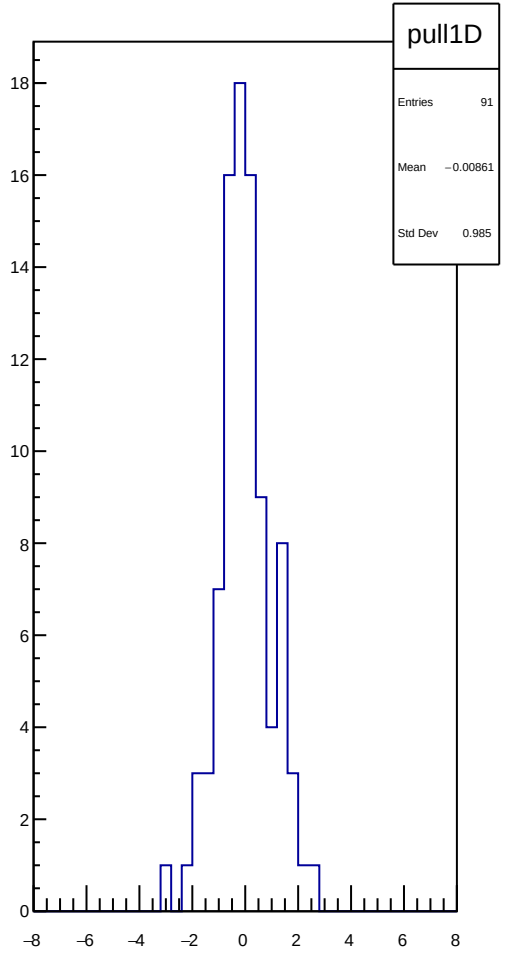

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.269e+04 / 90
p0 1092 ± 0.8287
1300
1200
1100
1000
900

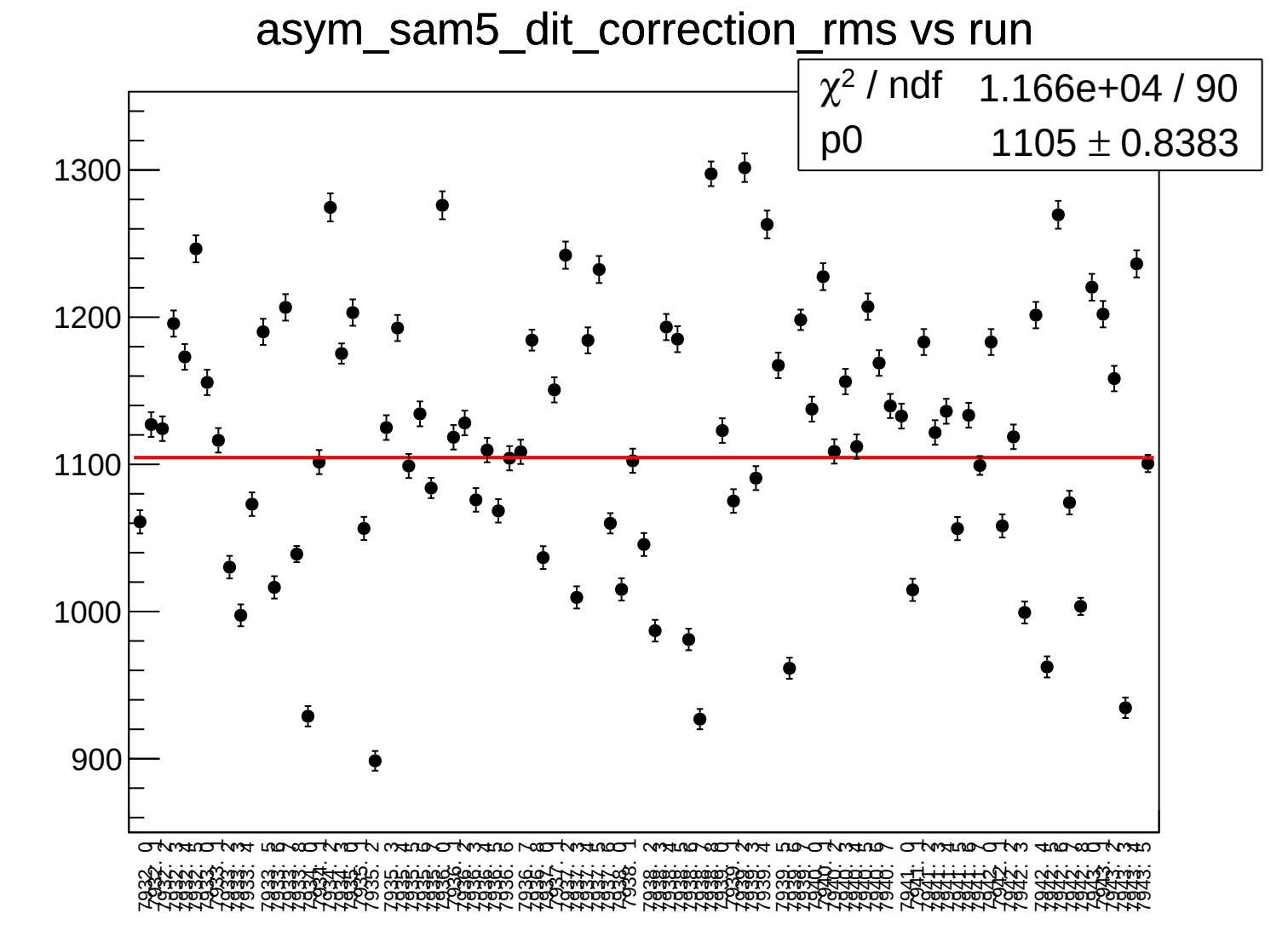

dit_asym_sam5_mean vs run
χ² / ndf 87.4 / 90
p0 217.5 ± 167.1
pull
Entries 91
Mean 106.2
Std Dev 0

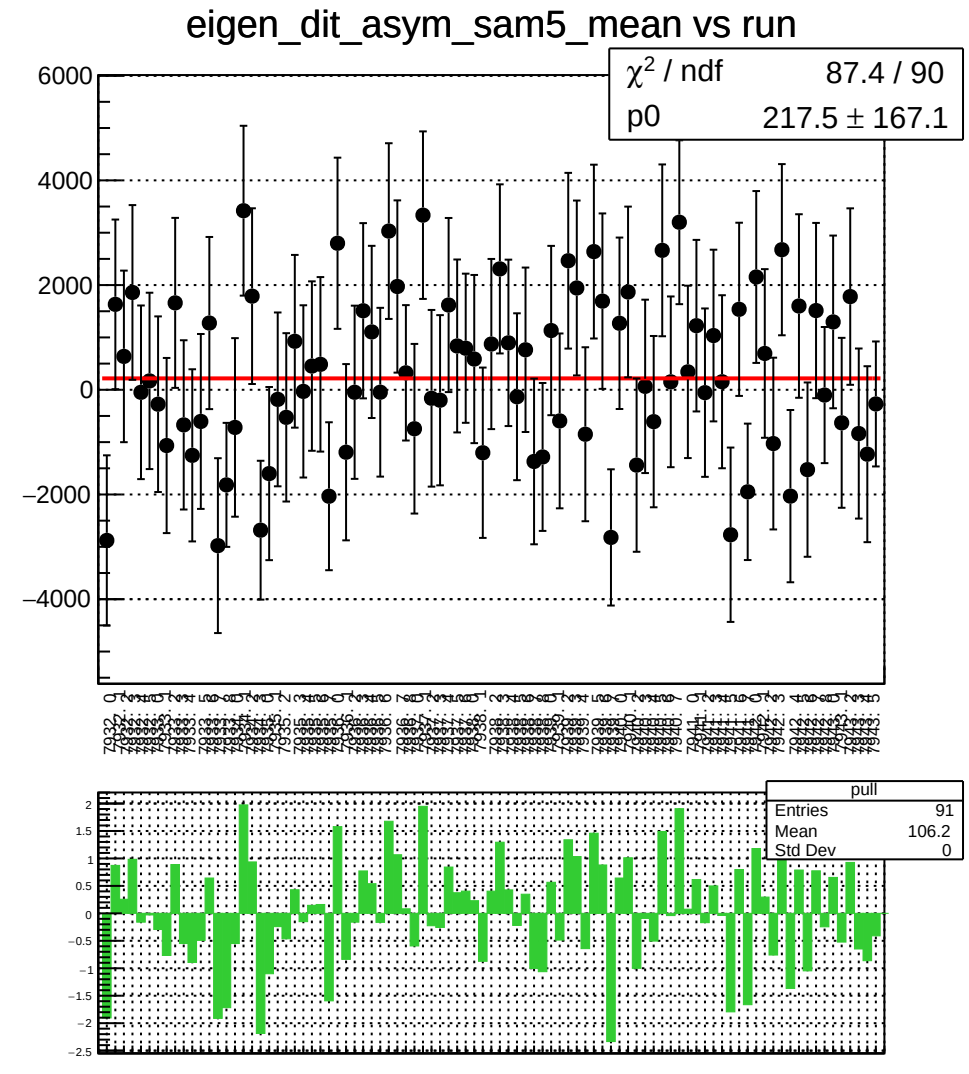

pull1D
Entries 91
Mean 0.02965
Std Dev 0.9796

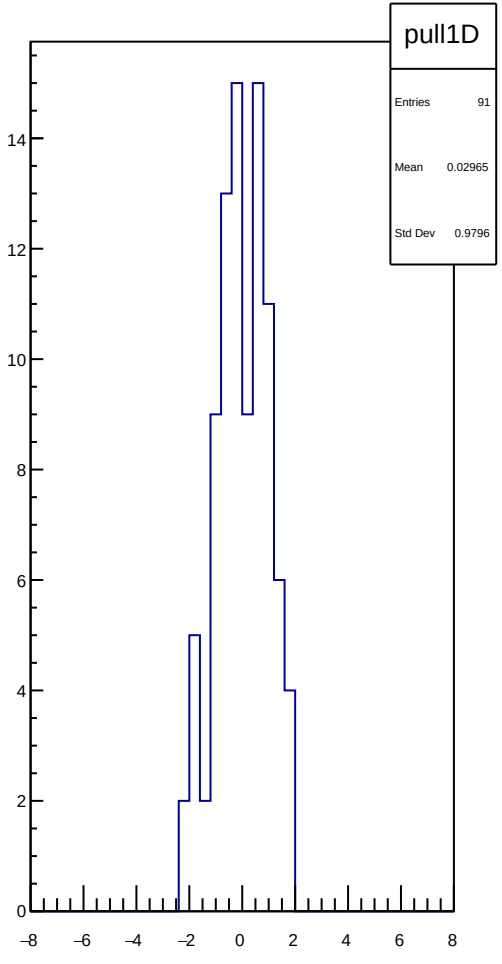

dit_asym_sam5_rms vs run
χ² / ndf 539.7 / 90
p0 156.2 ± 0.1181
168
166
164
162
160
158
156
154
152
150
148
146

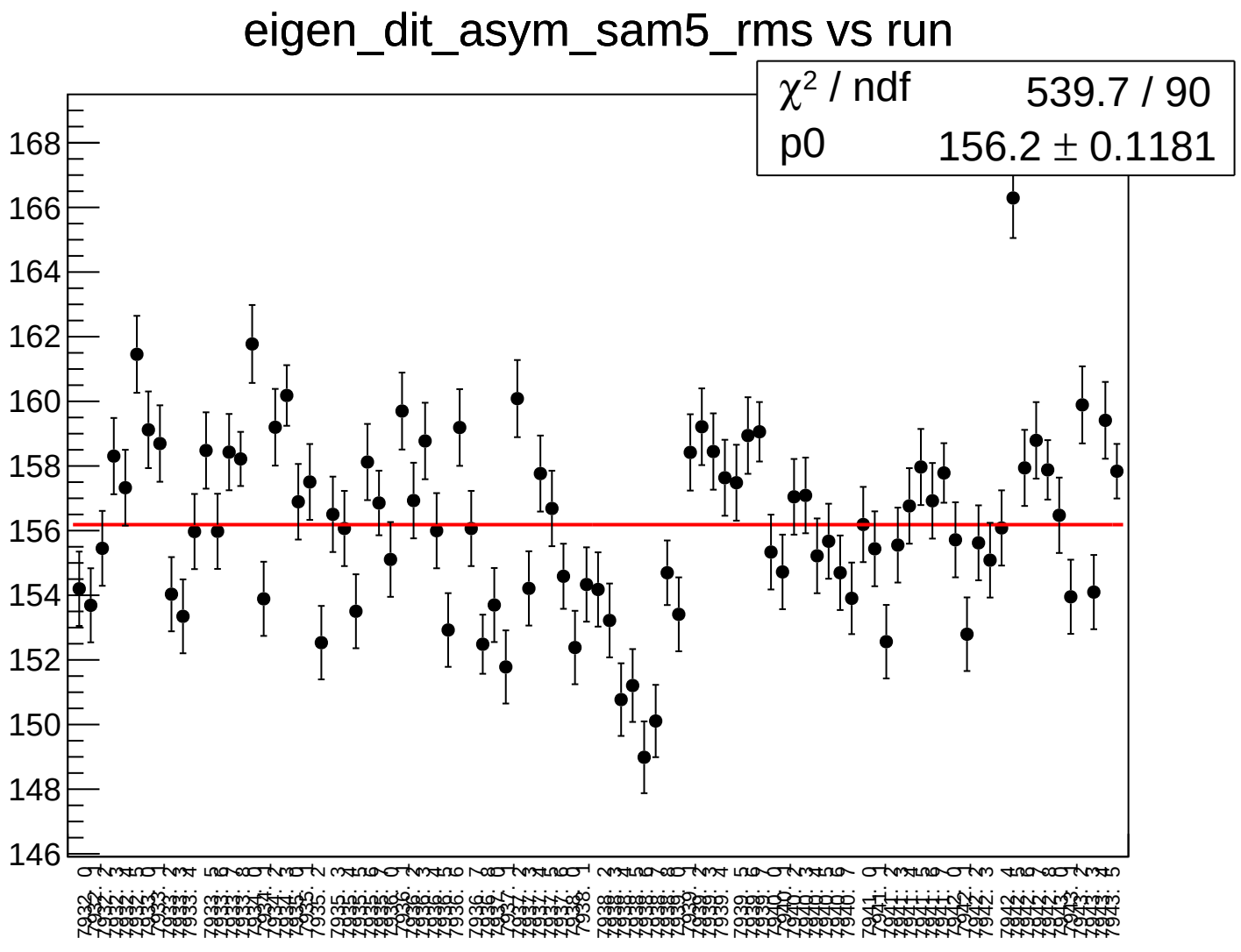

asym_sam5_dit_correction_mean vs run
χ² / ndf 88.3 / 90
p0 −412.1± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −212.4
Std Dev 0
2
1
0
−1
−2
−3

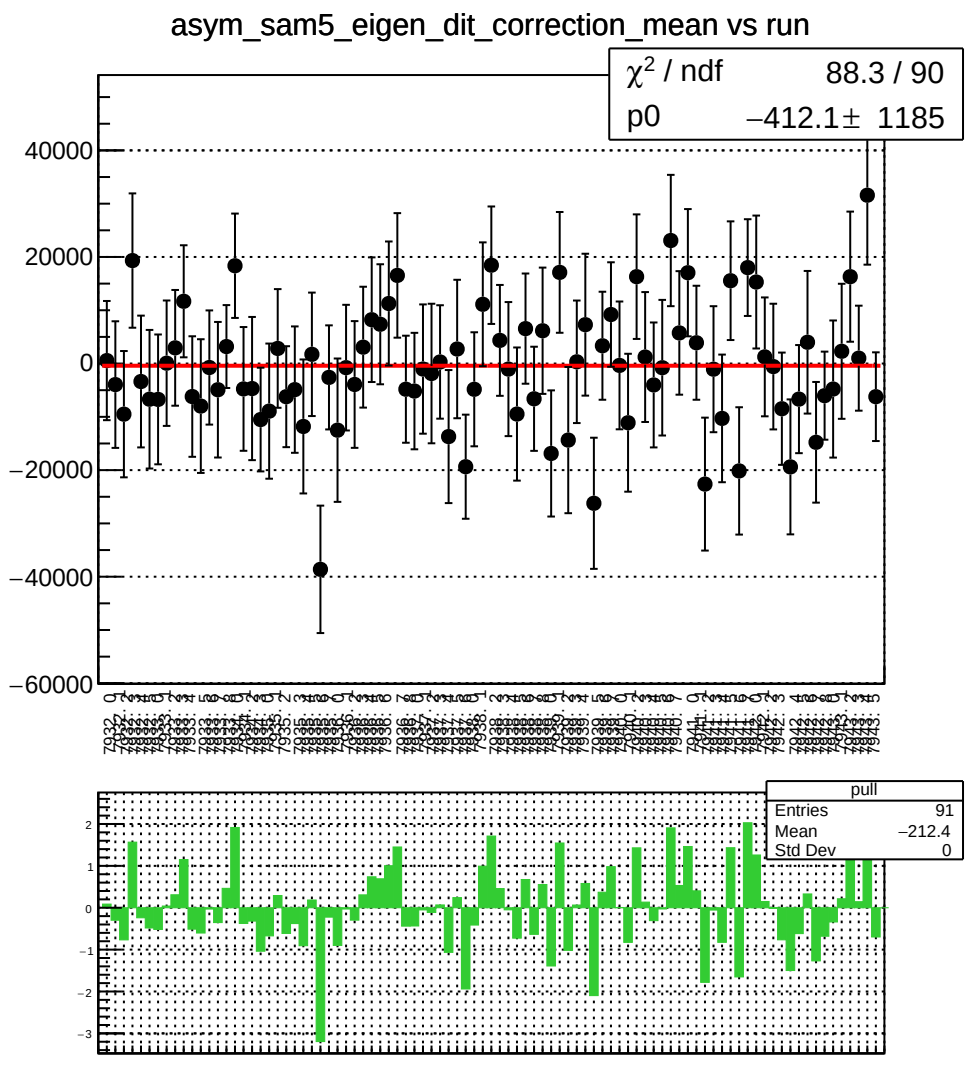

pull1D
Entries 91
Mean −0.00861
Std Dev 0.985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

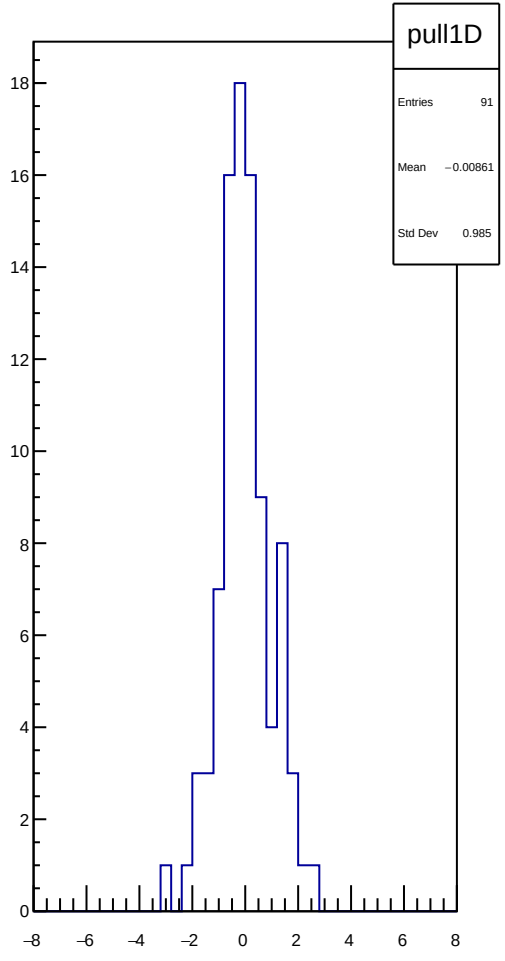

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.166e+04 / 90
p0 1105 ± 0.8383
1300
1200
1100
1000
900

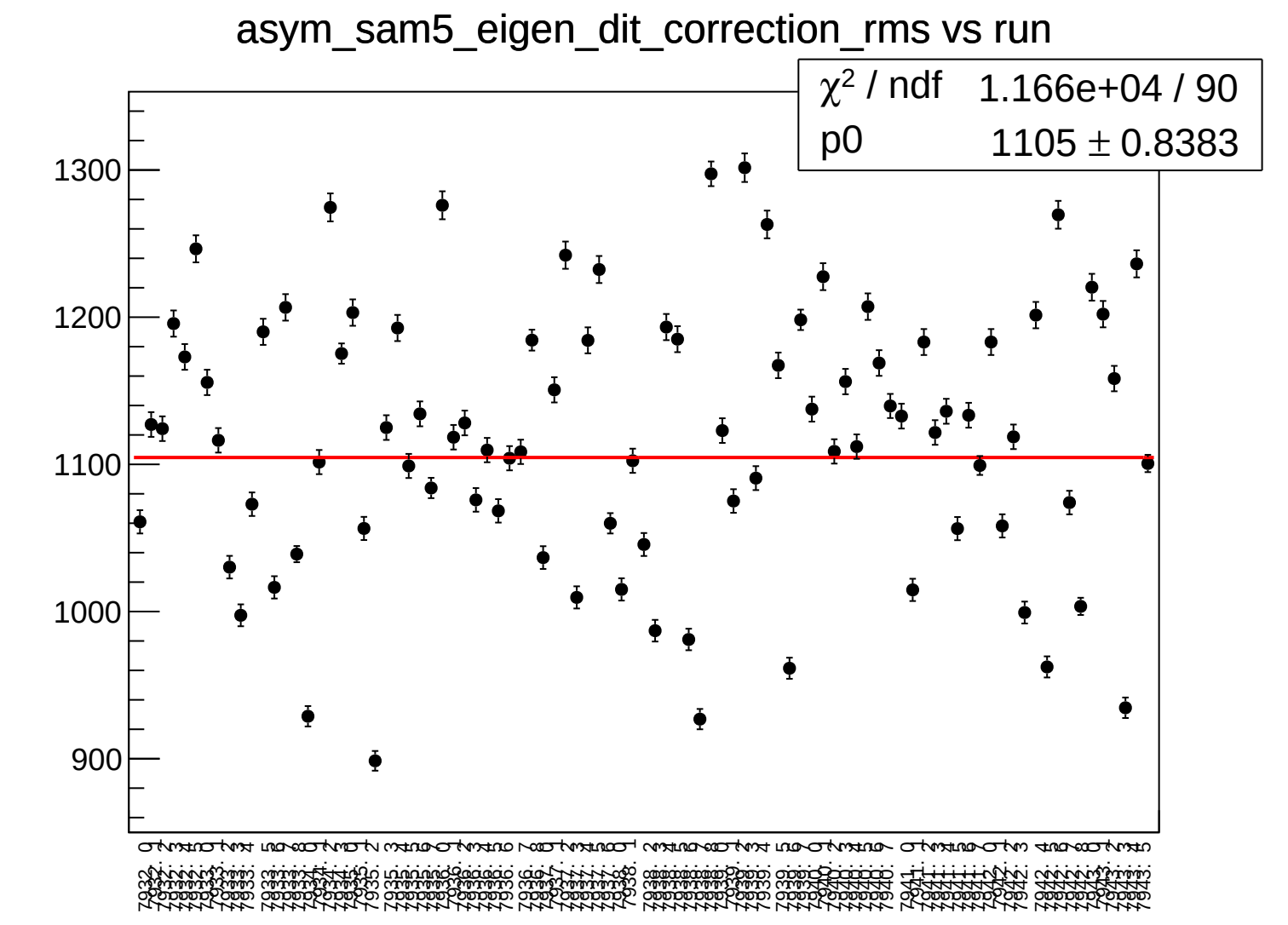

eigen_dit_asym_sam5_mean vs run
χ² / ndf 87.4 / 90
p0 217.5 ± 167.1
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 106.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

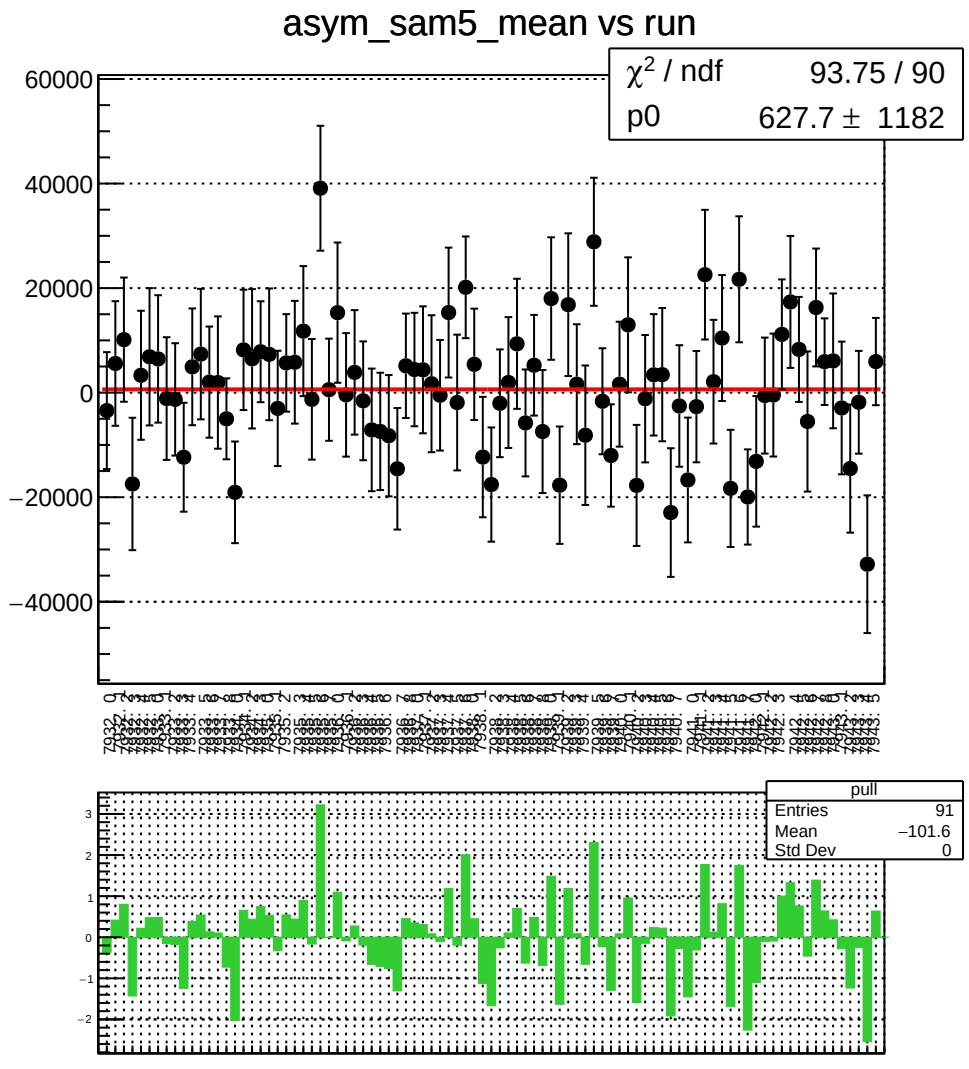

pull1D
Entries 91
Mean 0.02965
Std Dev 0.9796
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

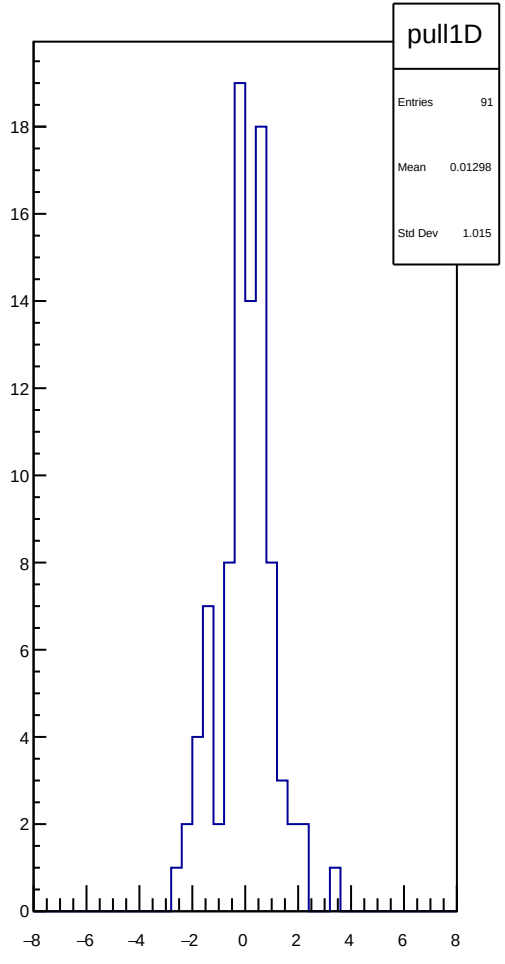

eigen_dit_asym_sam5_rms vs run
χ² / ndf 539.7 / 90
p0 156.2 ± 0.1181
168
166
164
162
160
158
156
154
152
150
148
146

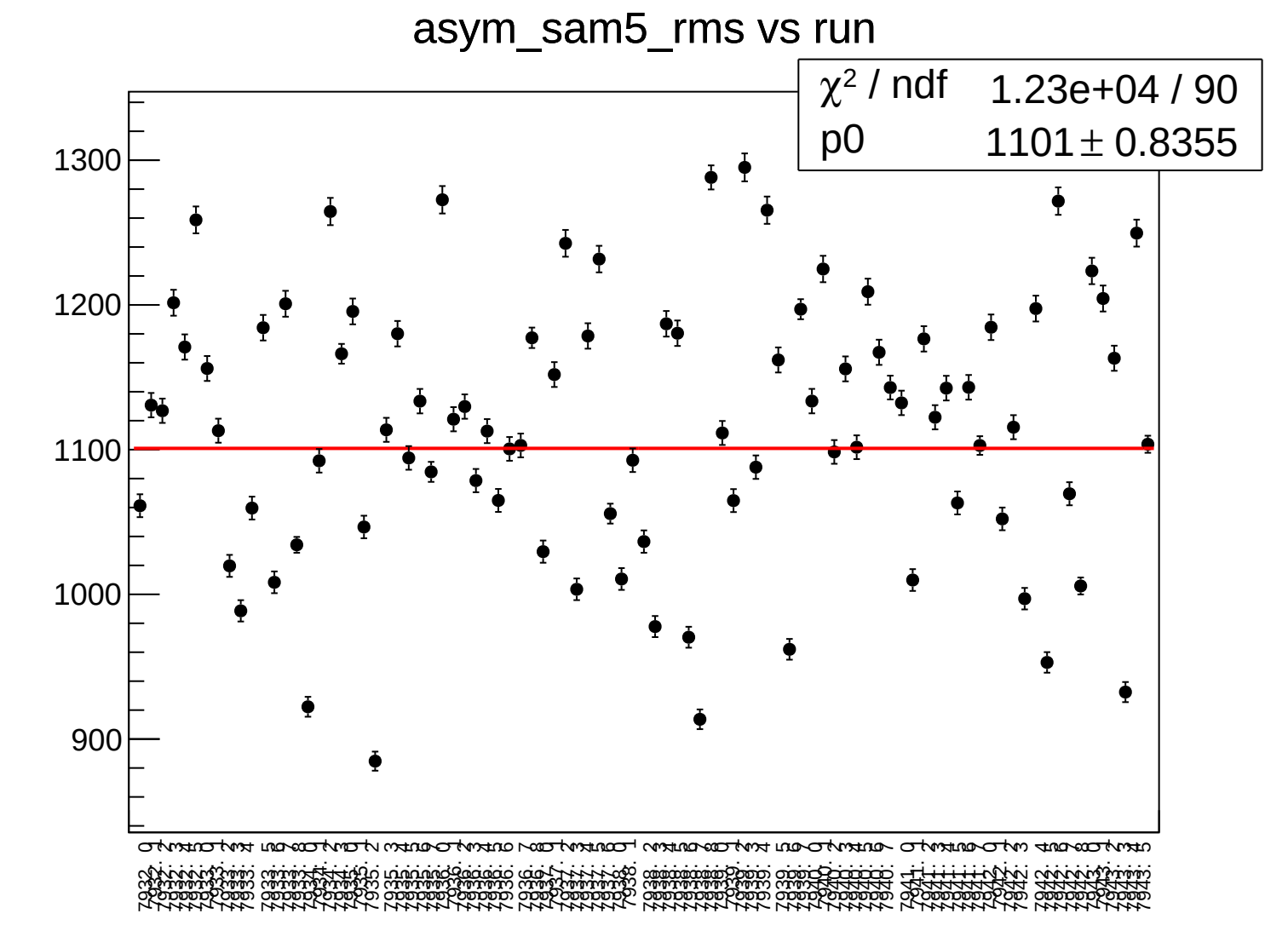

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 88.3 / 90
p0 −412.1± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −212.4
Std Dev 0
2
1
0
−1
−2
−3

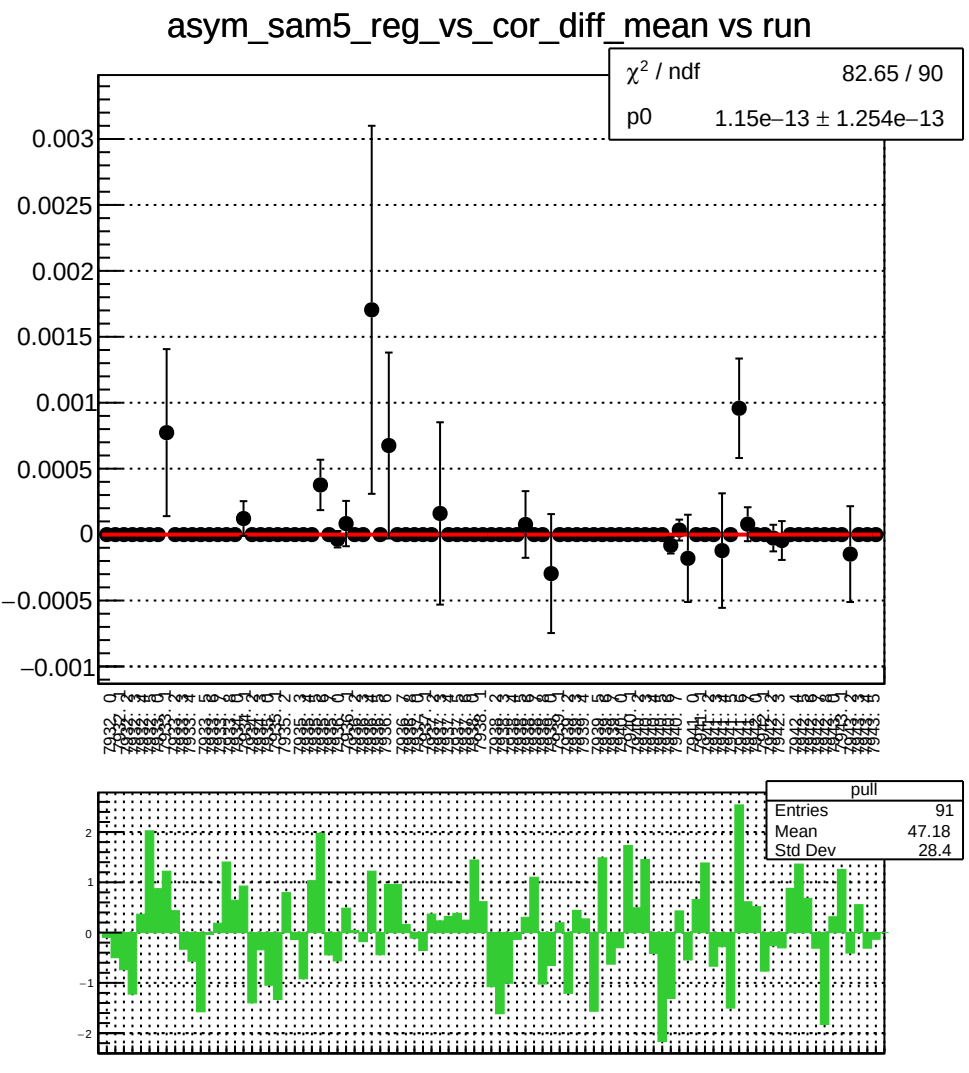

pull1D
Entries 91
Mean −0.00861
Std Dev 0.985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

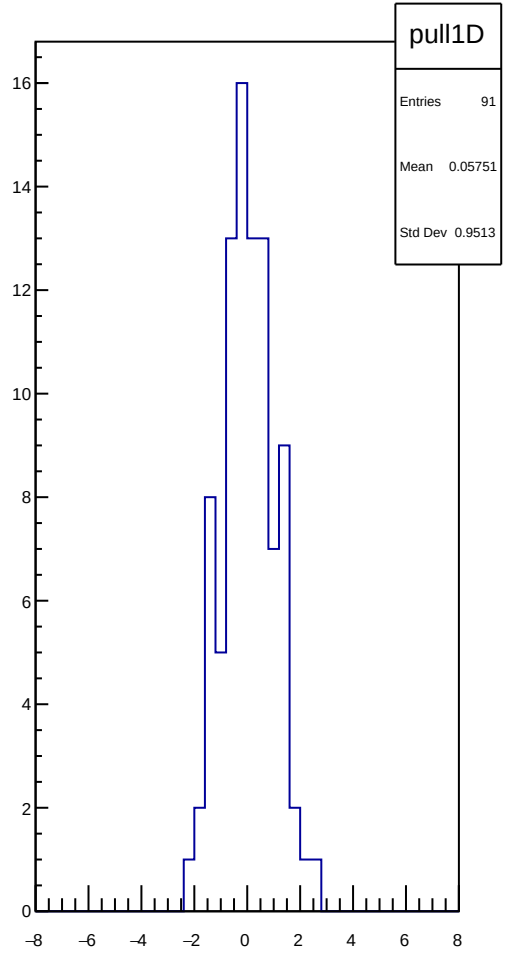

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.166e+04 / 90
p0 1105 ± 0.8383
1300
1200
1100
1000
900

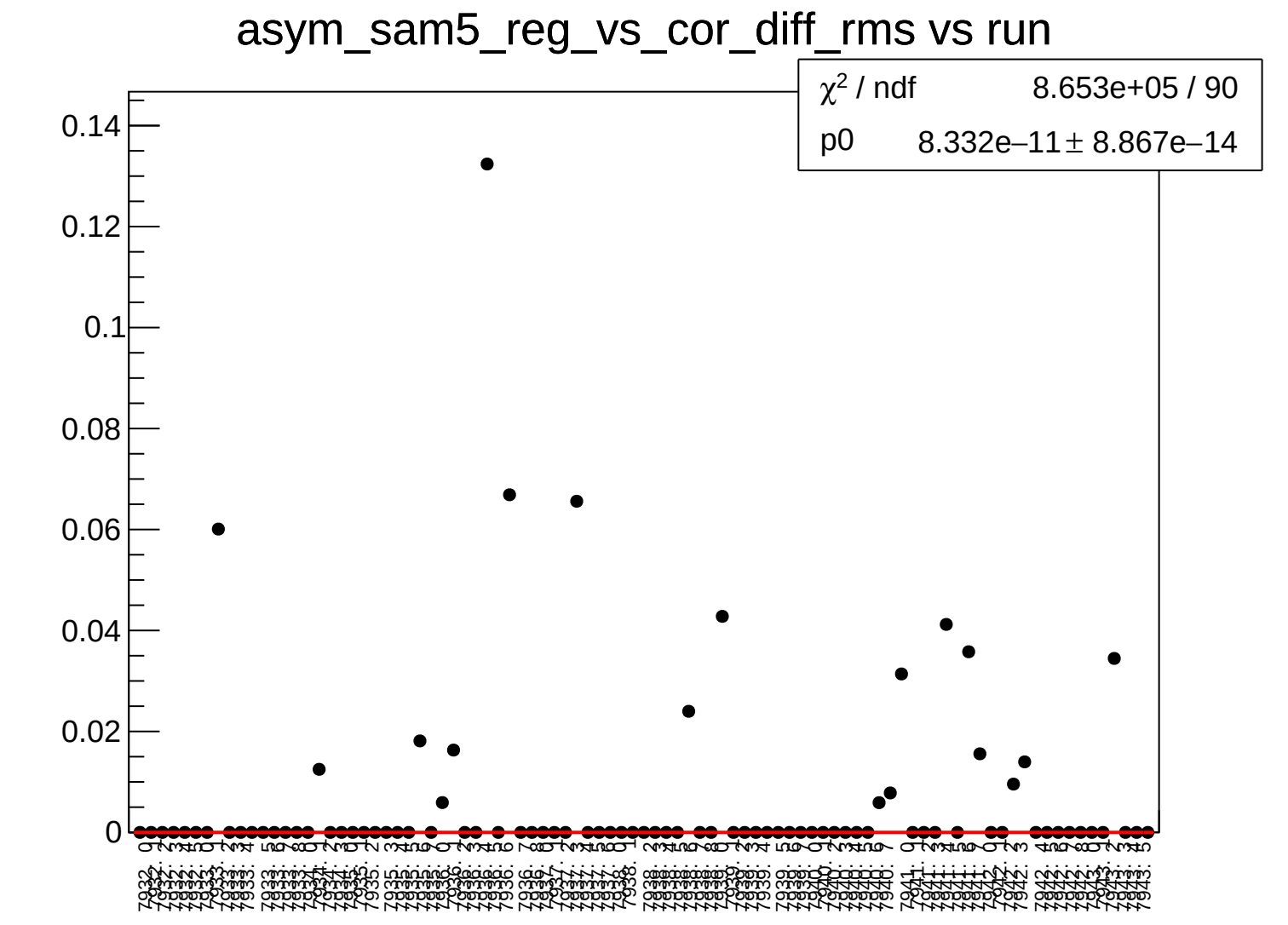

asym_sam5_mean vs run
χ² / ndf 93.75 / 90
p0 627.7 ± 1182
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −101.6
Std Dev 0
3
2
1
0
−1
−2

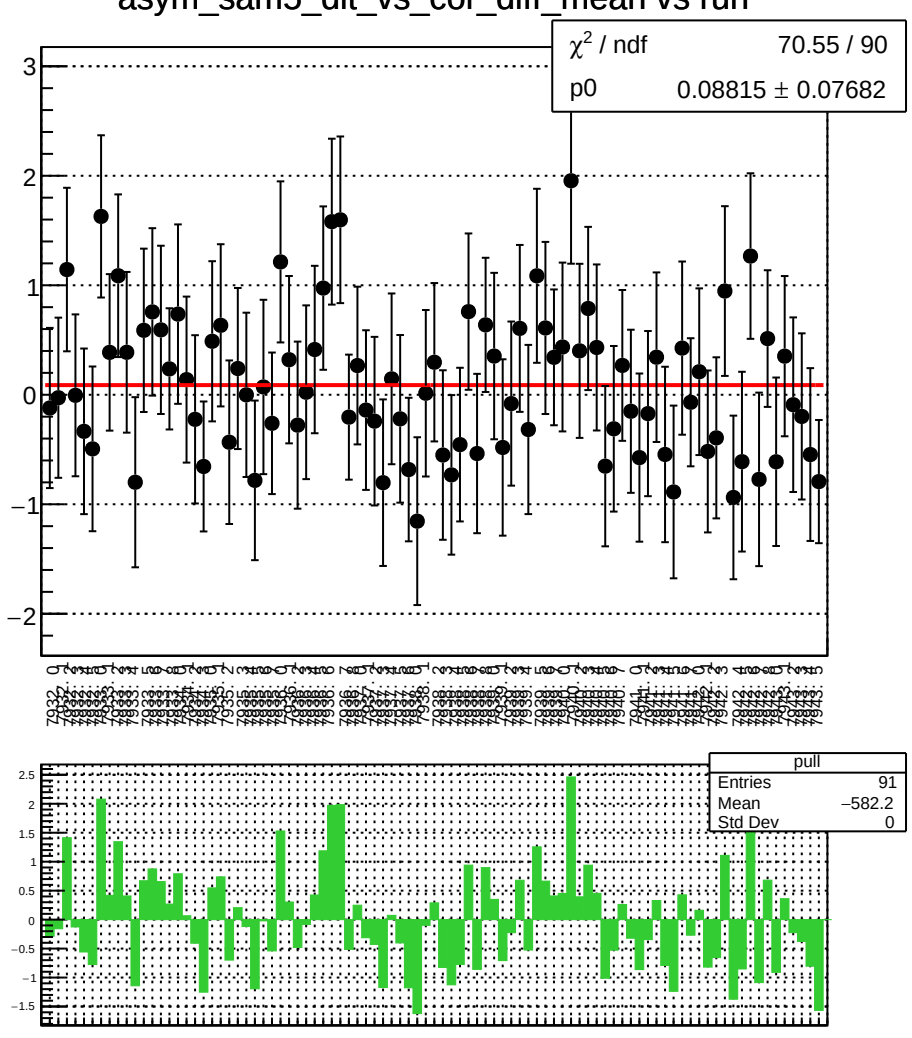

pull1D
Entries 91
Mean 0.01298
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

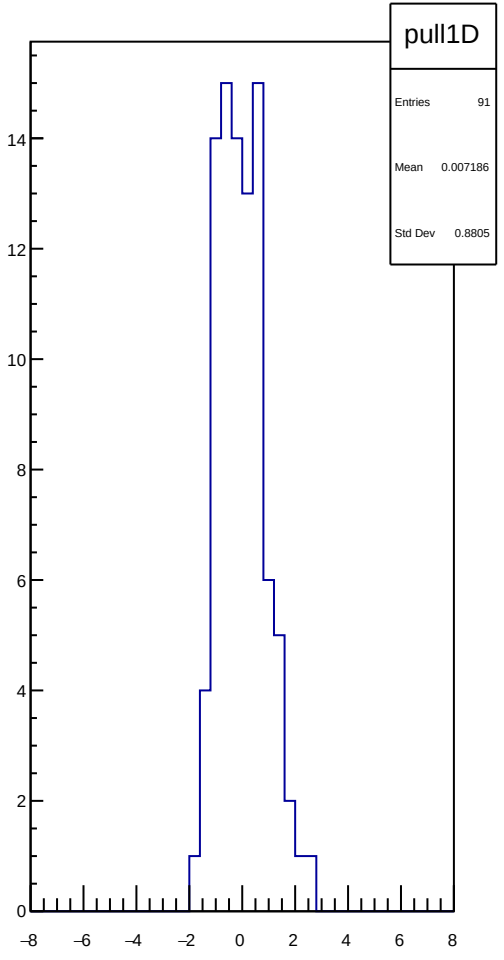

asym_sam5_rms vs run
χ² / ndf 1.23e+04 / 90
p0 1101 ± 0.8355
1300
1200
1100
1000
900

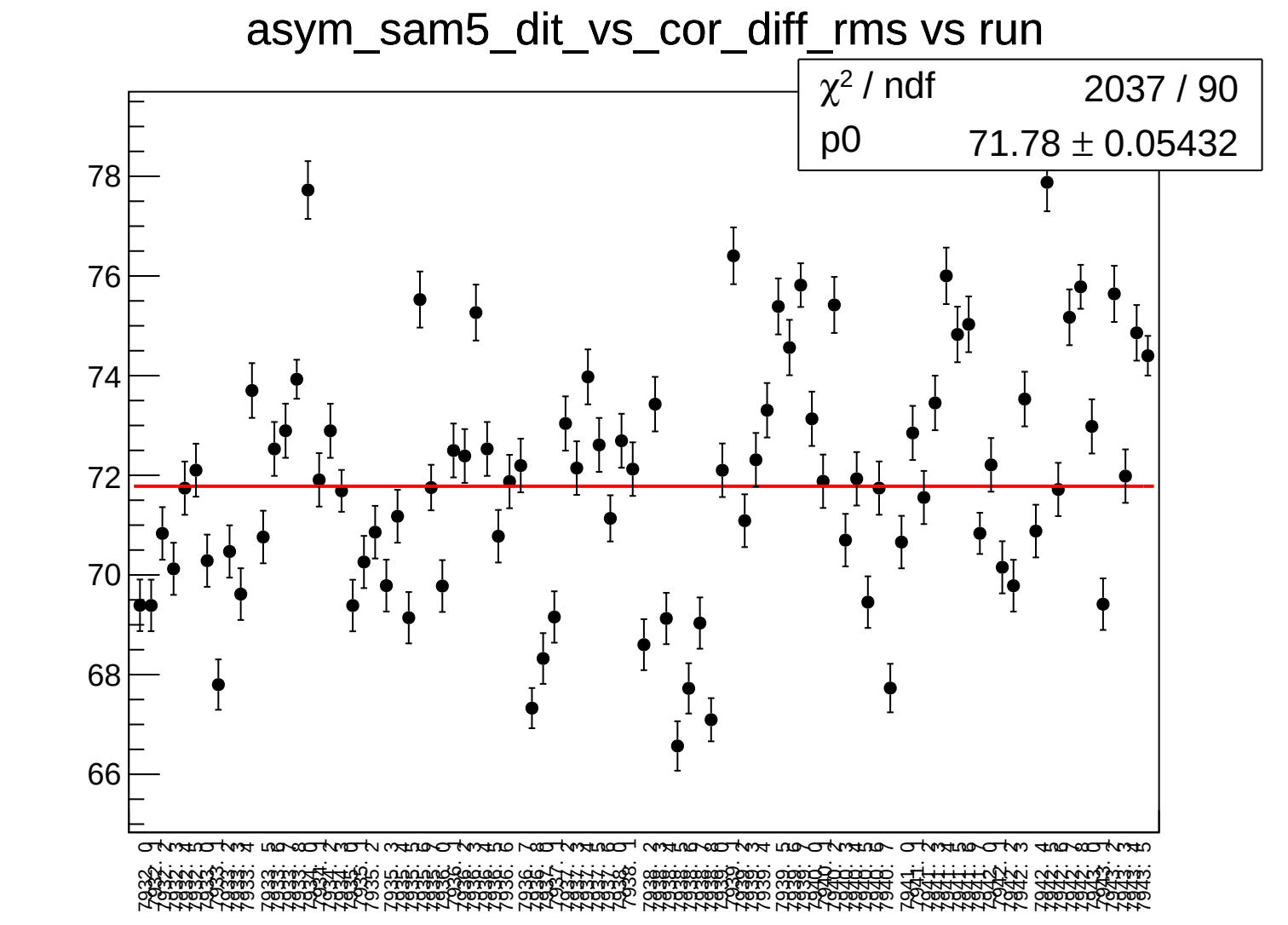

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 82.65 / 90
p0 1.15e−13 ± 1.254e−13
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 47.18
Std Dev 28.4
2
1
0
−1
−2

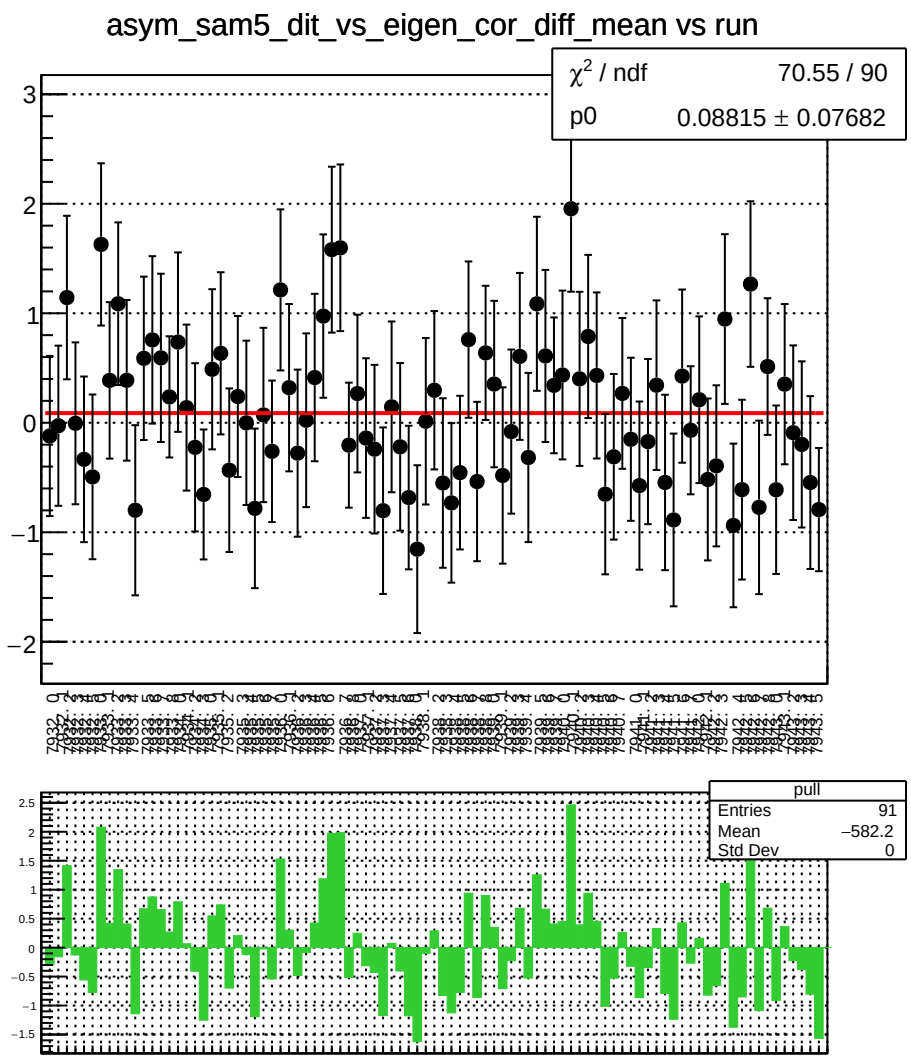

pull1D
Entries 91
Mean 0.05751
Std Dev 0.9513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

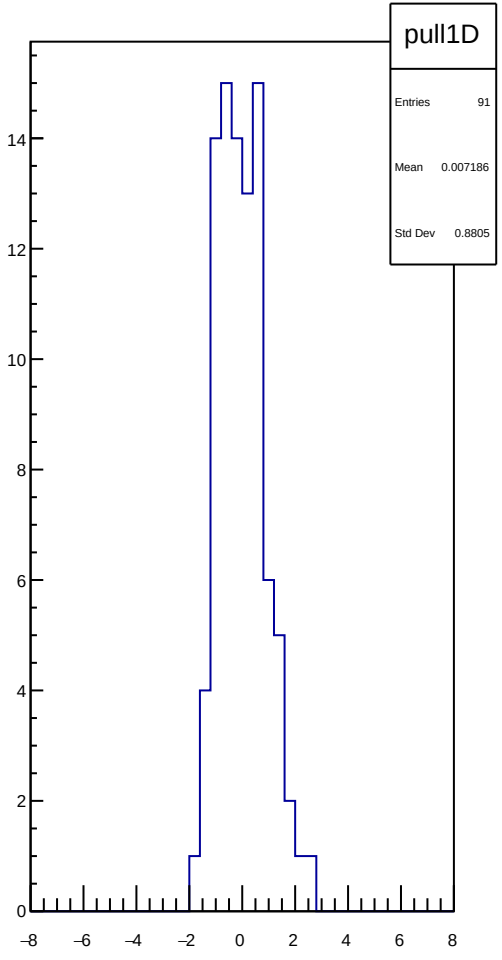

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.653e+05 / 90
p0 8.332e−11 ± 8.867e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

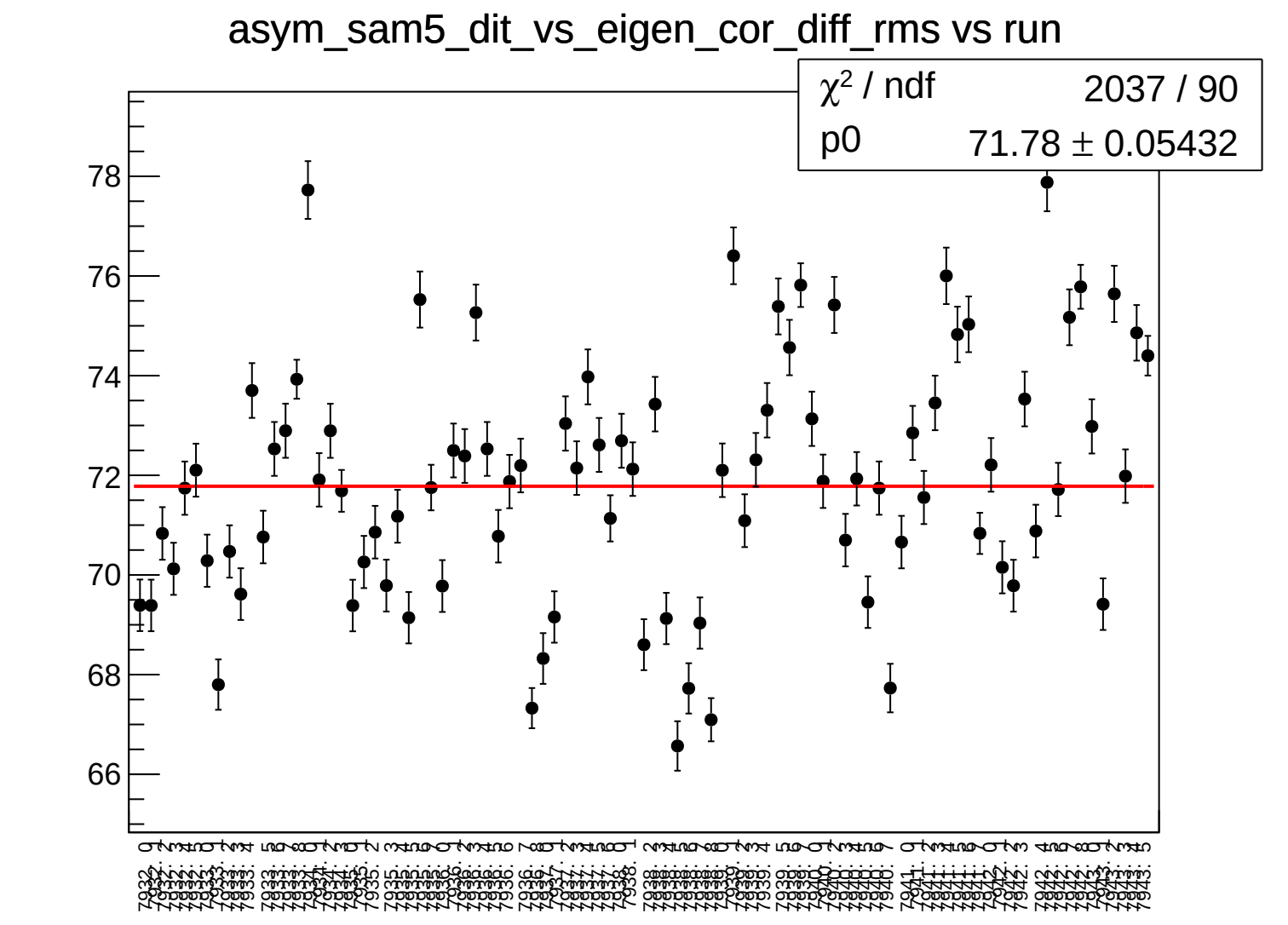

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 70.55 / 90
p0 0.08815 ± 0.07682
pull
Entries 91
Mean −582.2
Std Dev 0

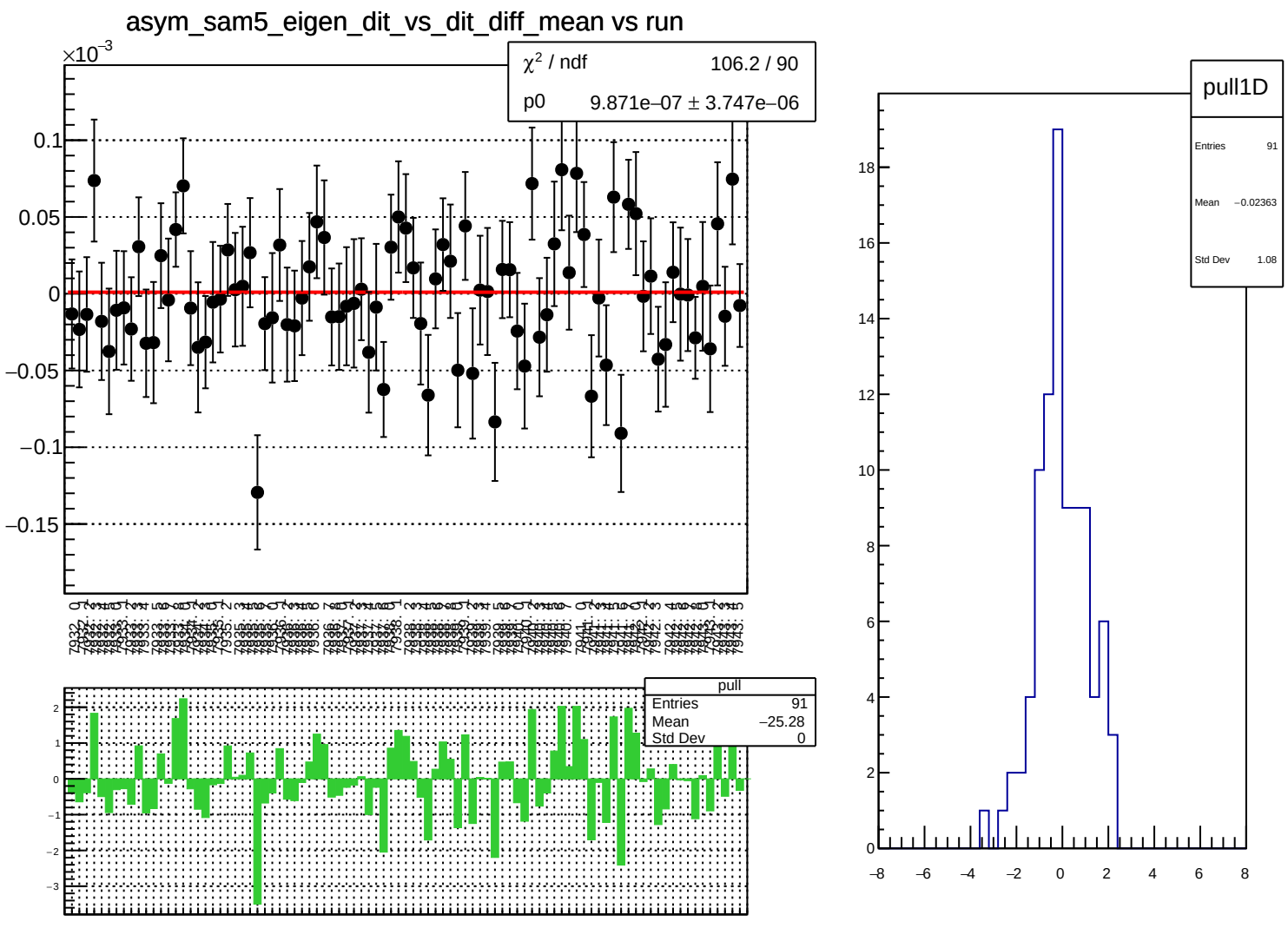

pull1D
Entries 91
Mean 0.007186
Std Dev 0.8805

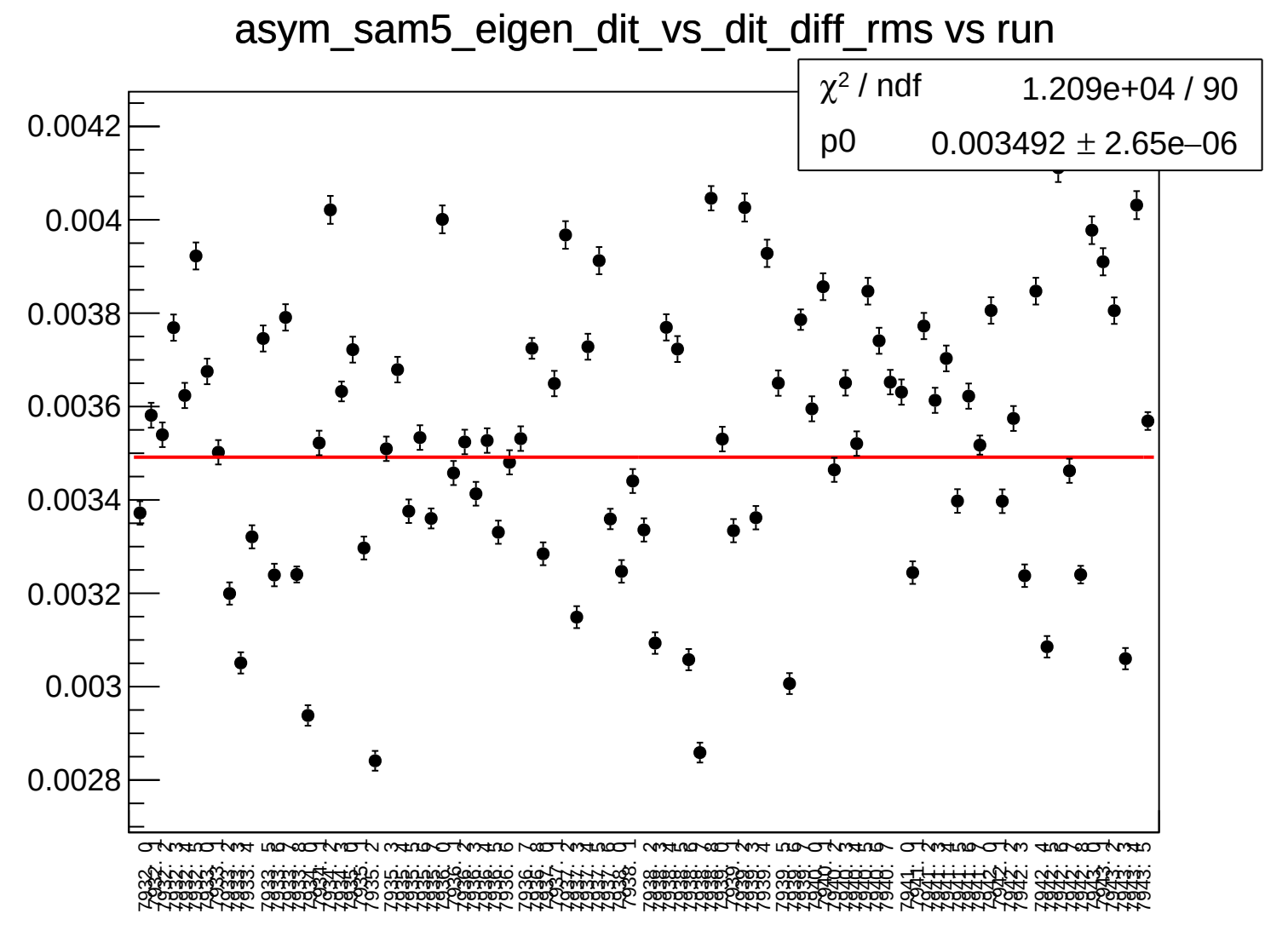

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2037 / 90
p0 71.78 ± 0.05432
78
76
74
72
70
68
66

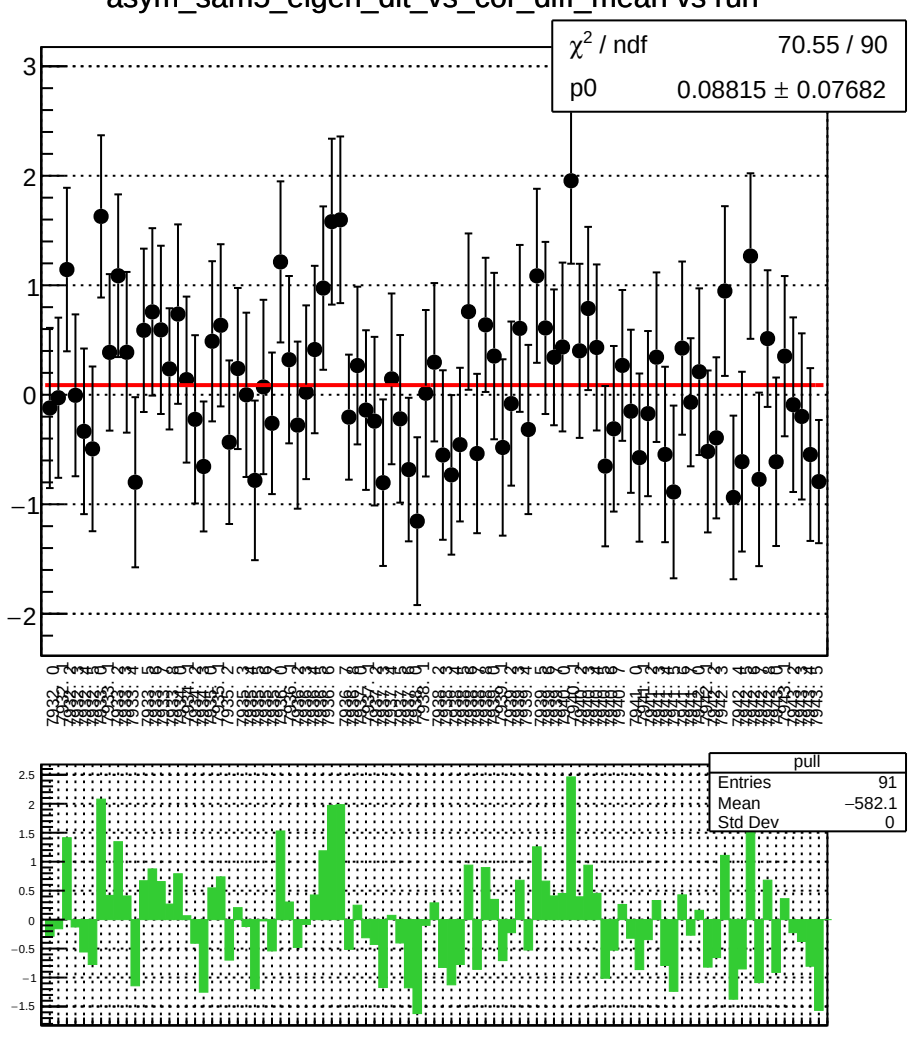

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.55 / 90
p0 0.08815 ± 0.07682
pull
Entries 91
Mean −582.2
Std Dev 0

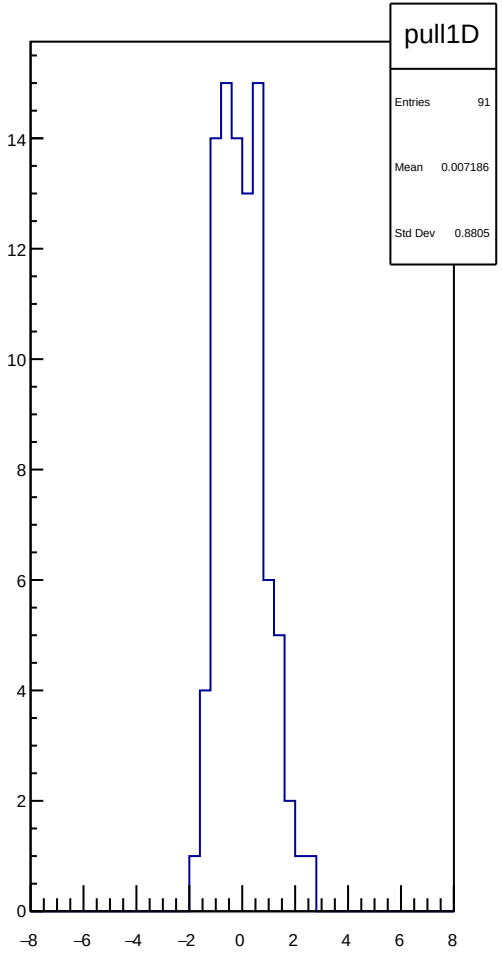

pull1D
Entries 91
Mean 0.007186
Std Dev 0.8805

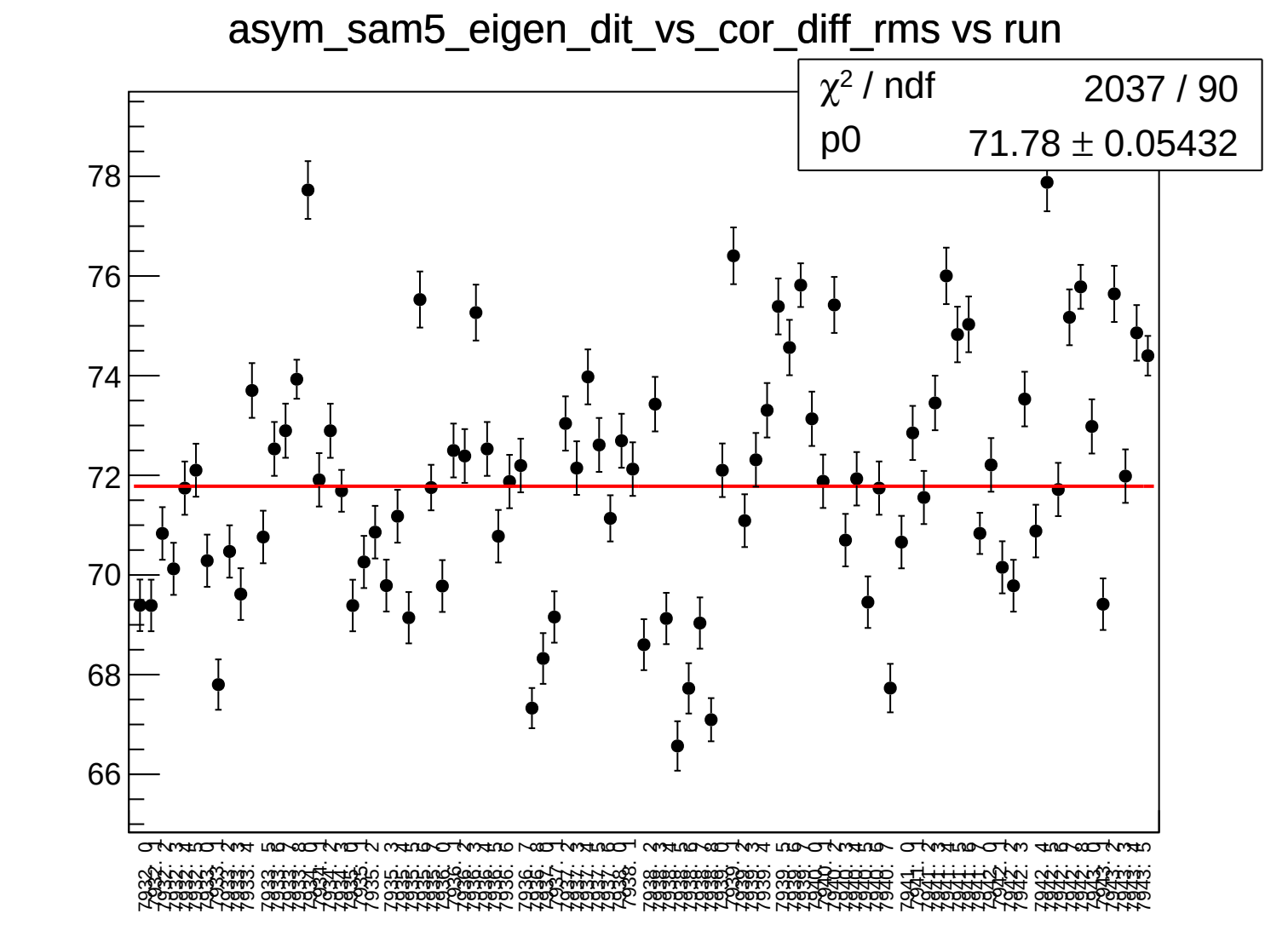

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2037 / 90
p0 71.78 ± 0.05432
78
76
74
72
70
68
66

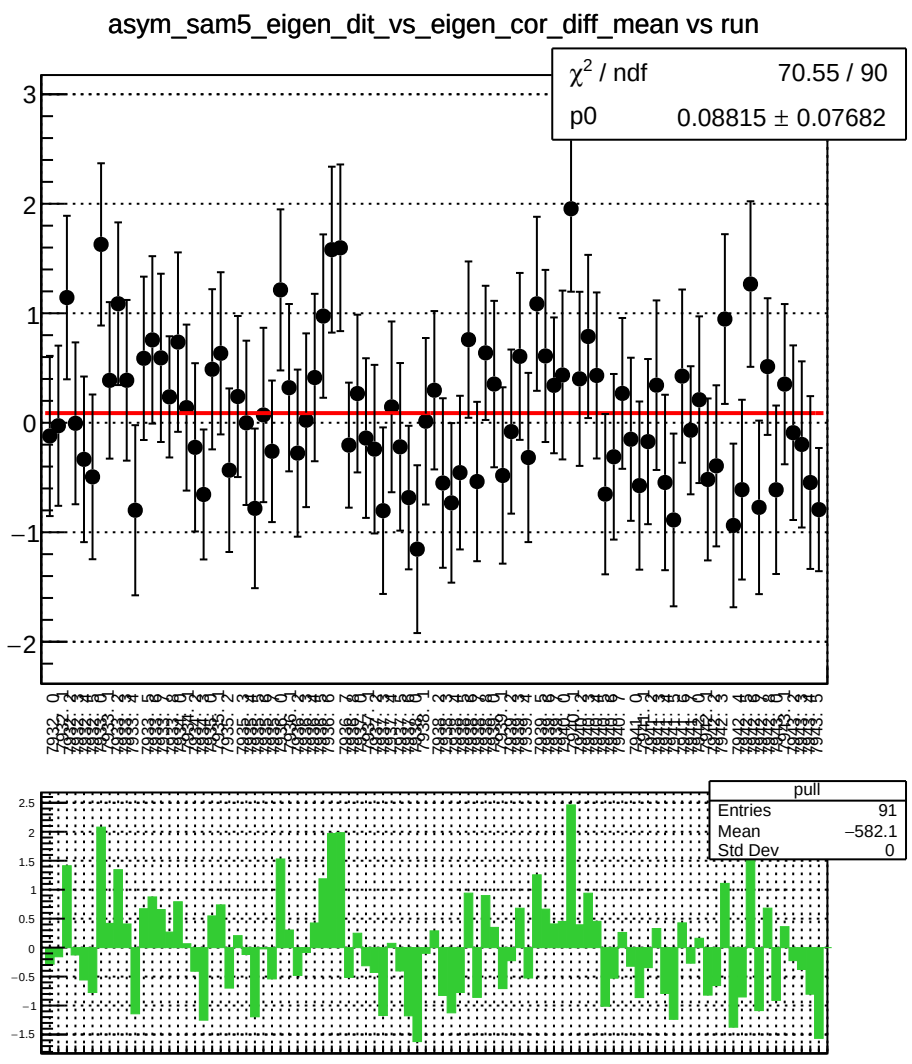

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.2 / 90
p0 9.871e−07 ± 3.747e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −25.28
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.02363
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

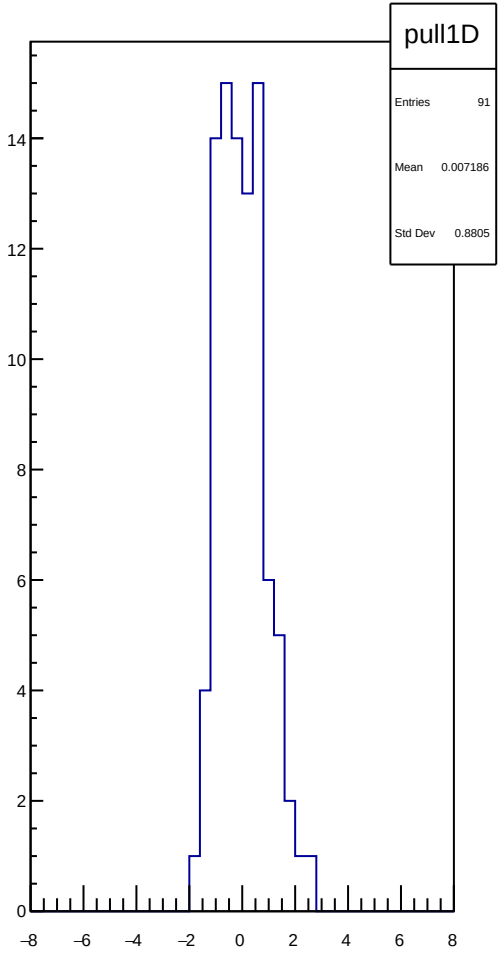

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.209e+04 / 90
p0 0.003492 ± 2.65e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

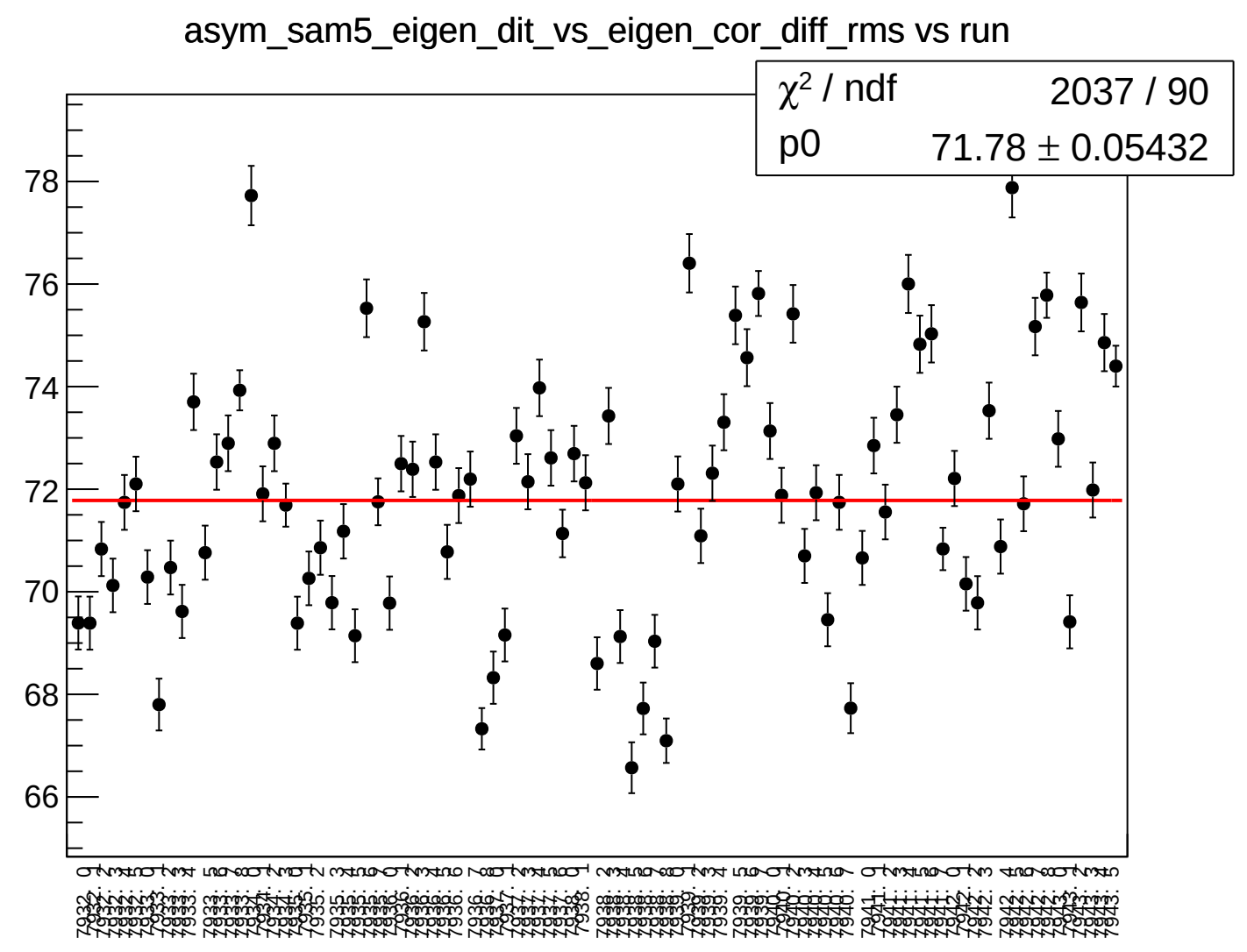

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.55 / 90
p0 0.08815 ± 0.07682
pull
Entries 91
Mean −582.1
Std Dev 0

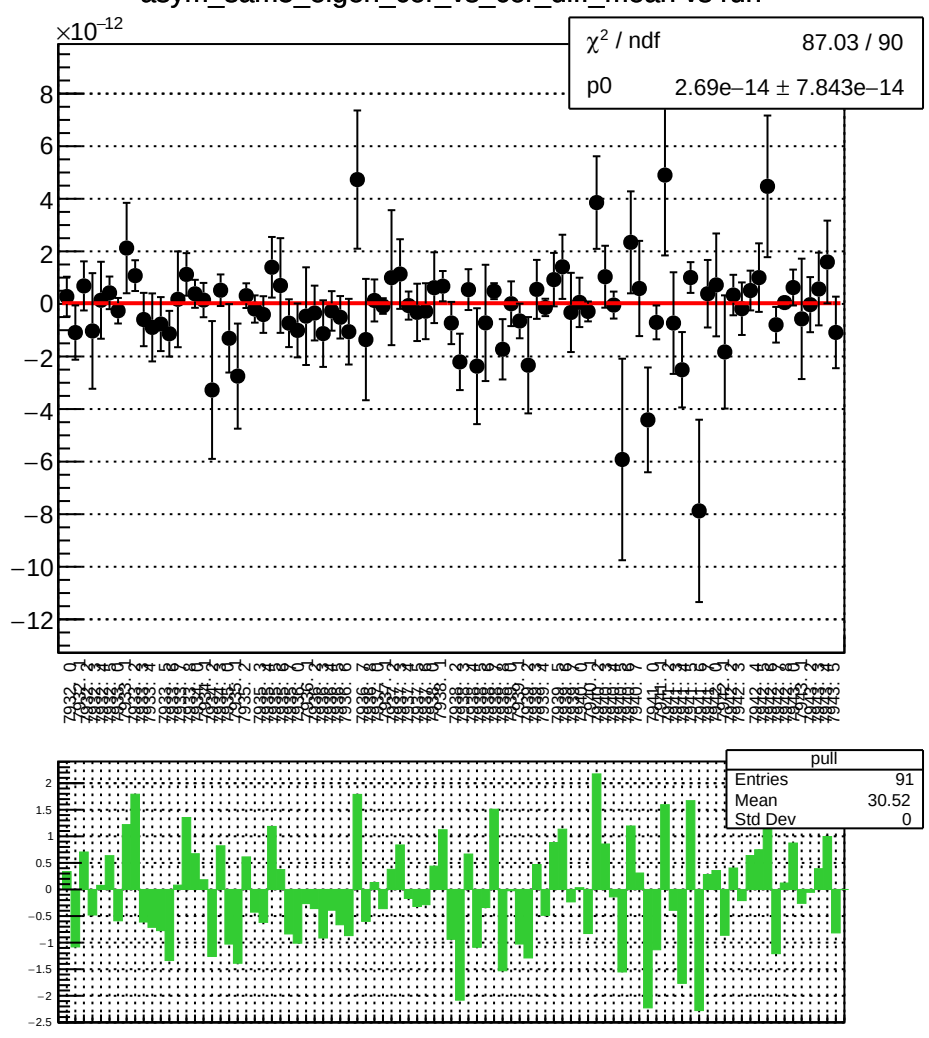

pull1D
Entries 91
Mean 0.007186
Std Dev 0.8805

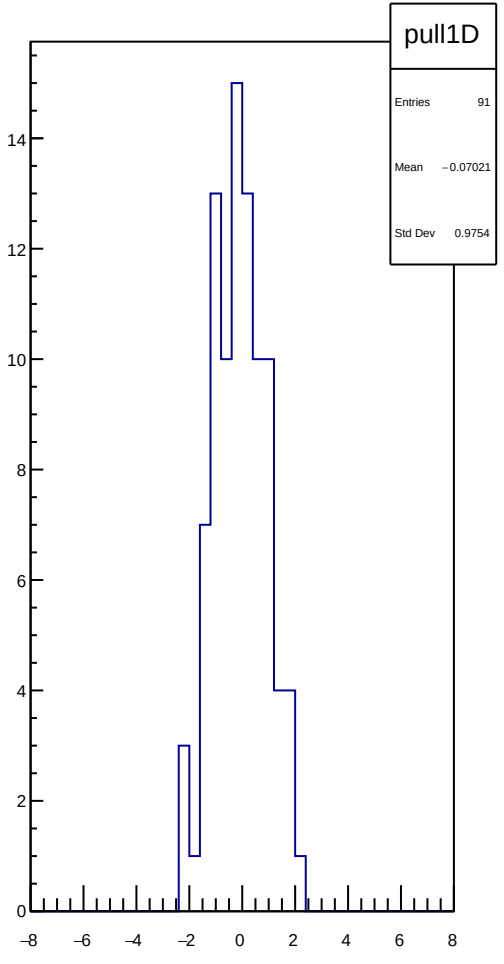

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2037 / 90
p0 71.78 ± 0.05432
78
76
74
72
70
68
66

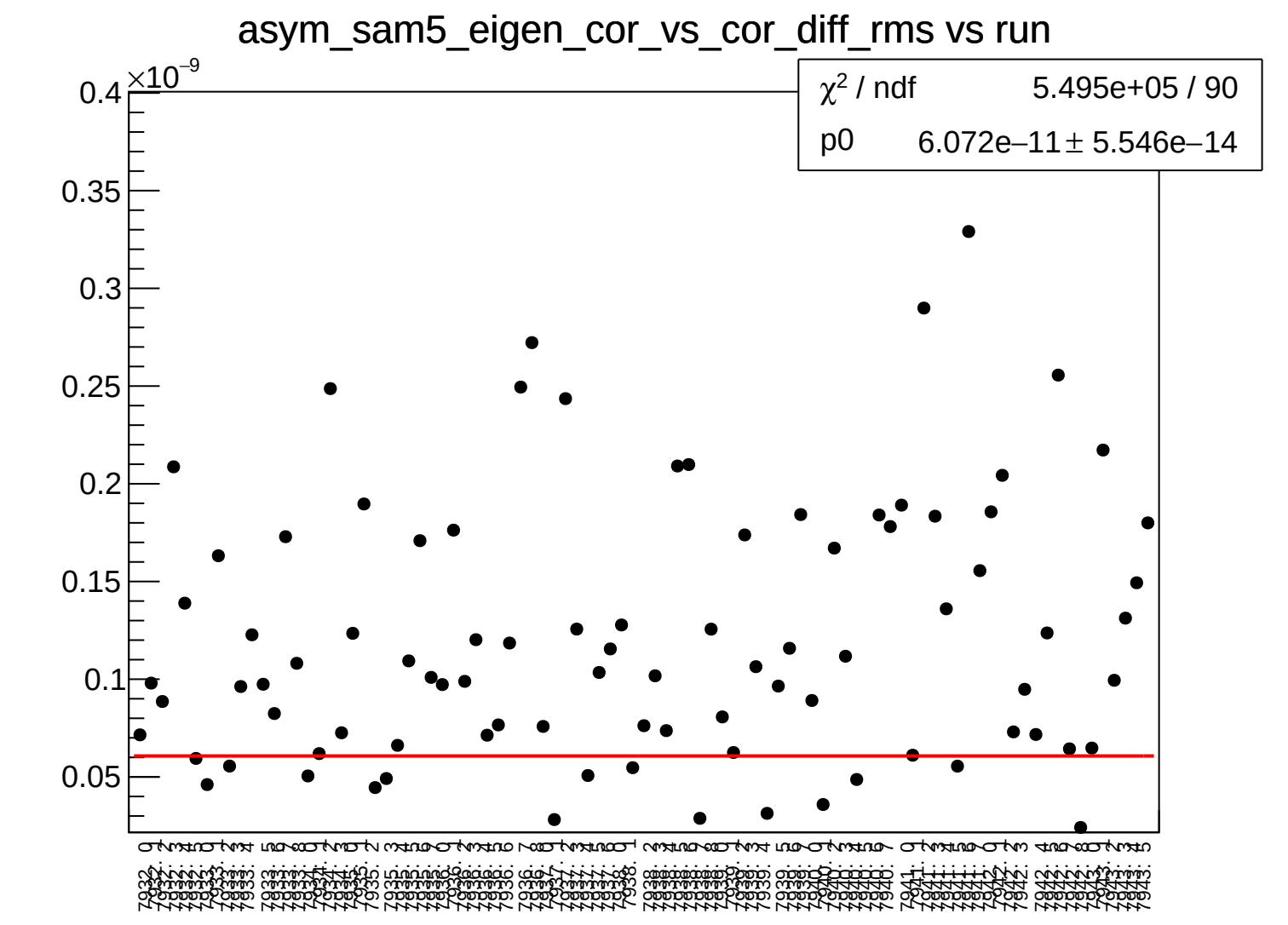

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.55 / 90
p0 0.08815 ± 0.07682
pull
Entries 91
Mean −582.1
Std Dev 0

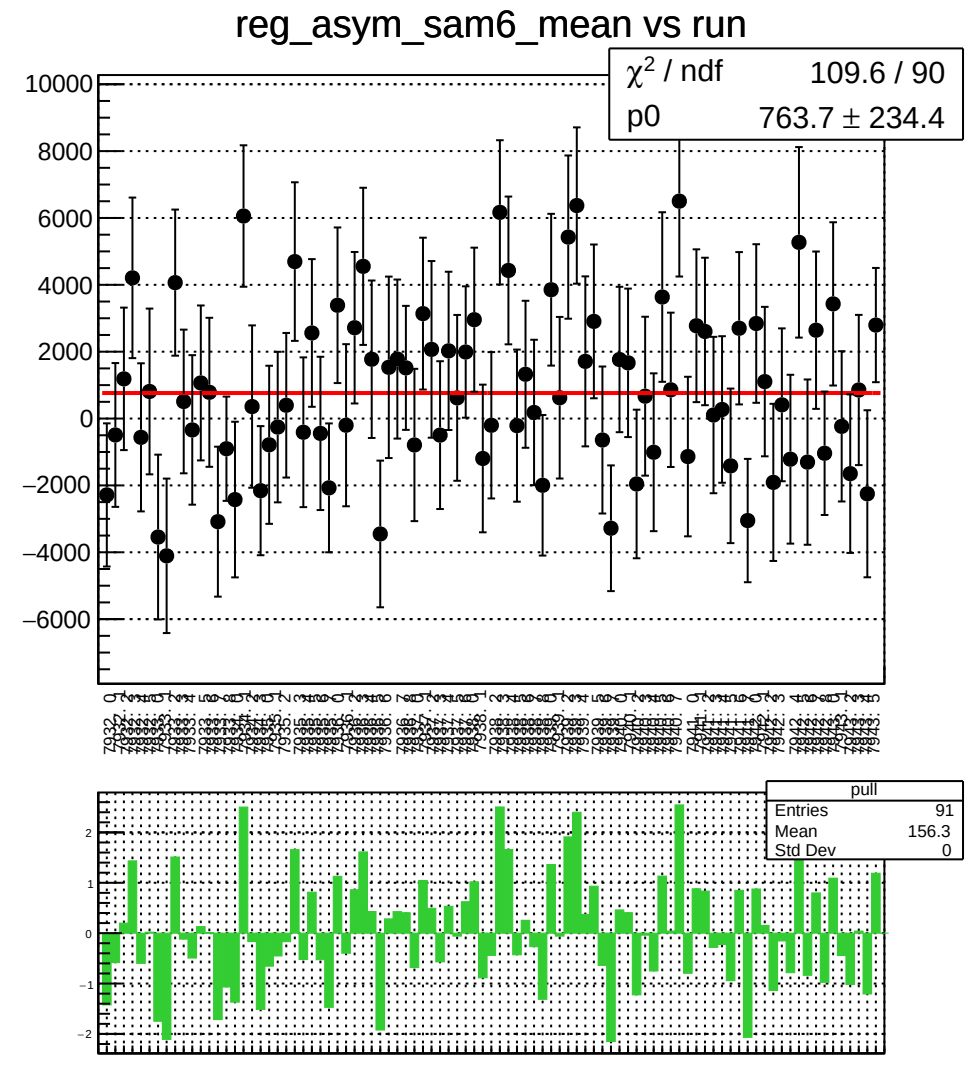

pull1D
Entries 91
Mean 0.007186
Std Dev 0.8805

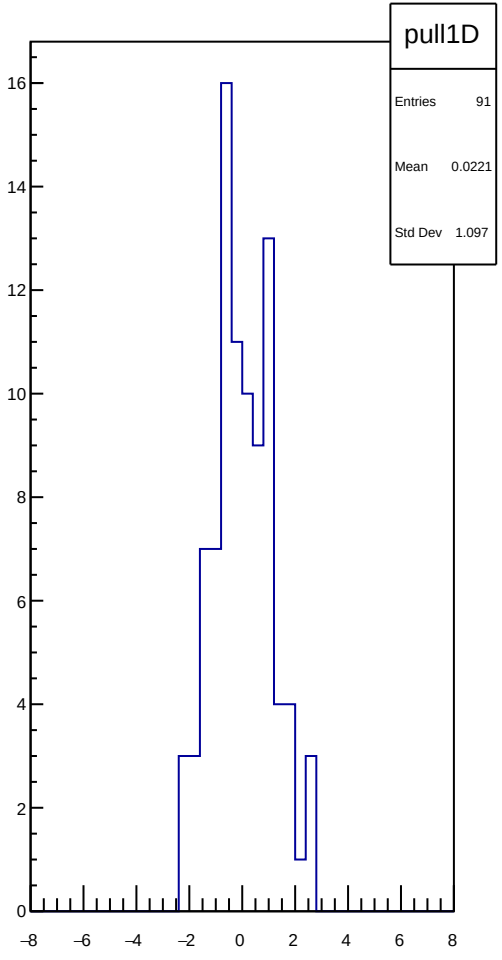

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2037 / 90
p0 71.78 ± 0.05432
78
76
74
72
70
68
66

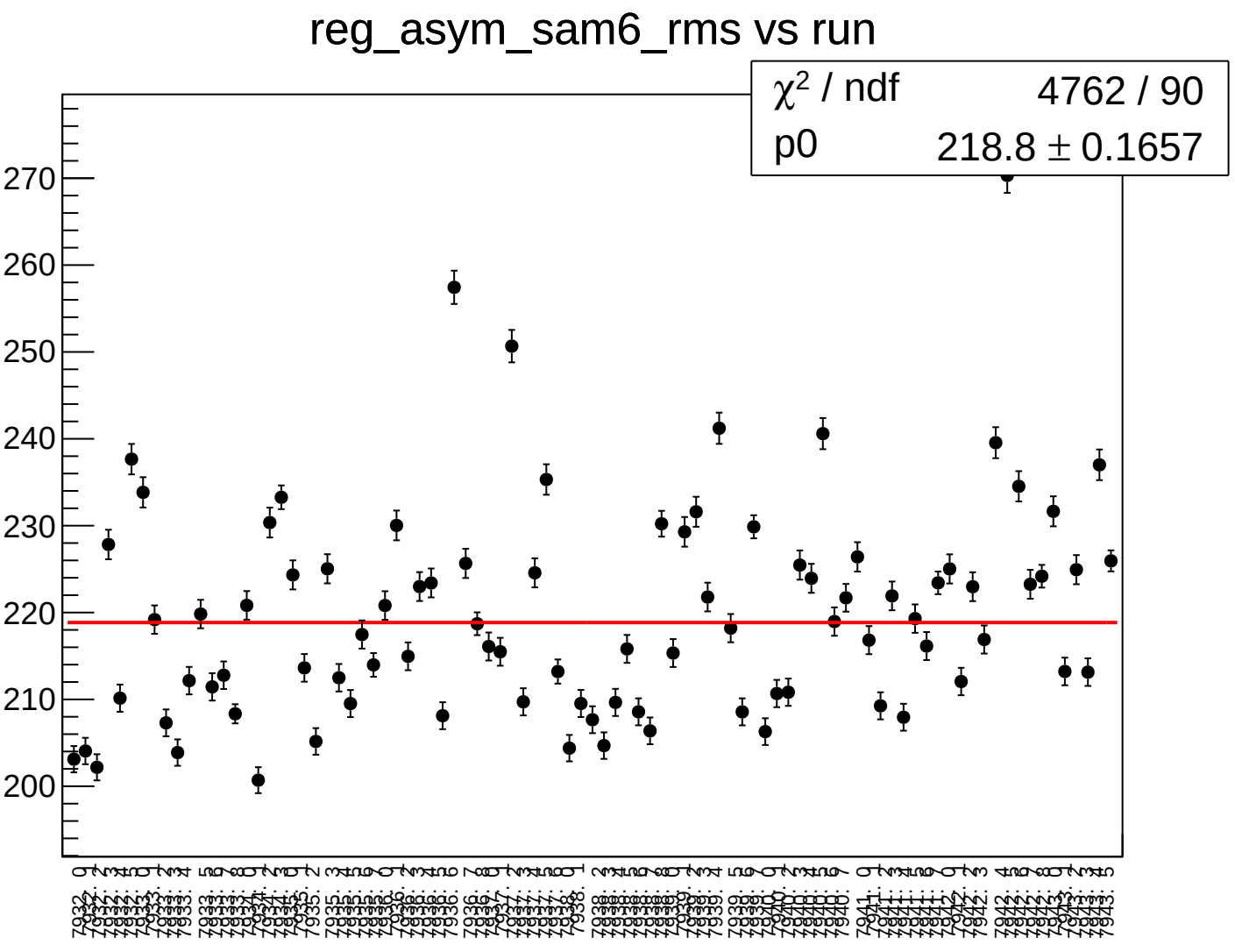

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.03 / 90
p0 2.69e−14 ± 7.843e−14
pull
Entries 91
Mean 30.52
Std Dev 0

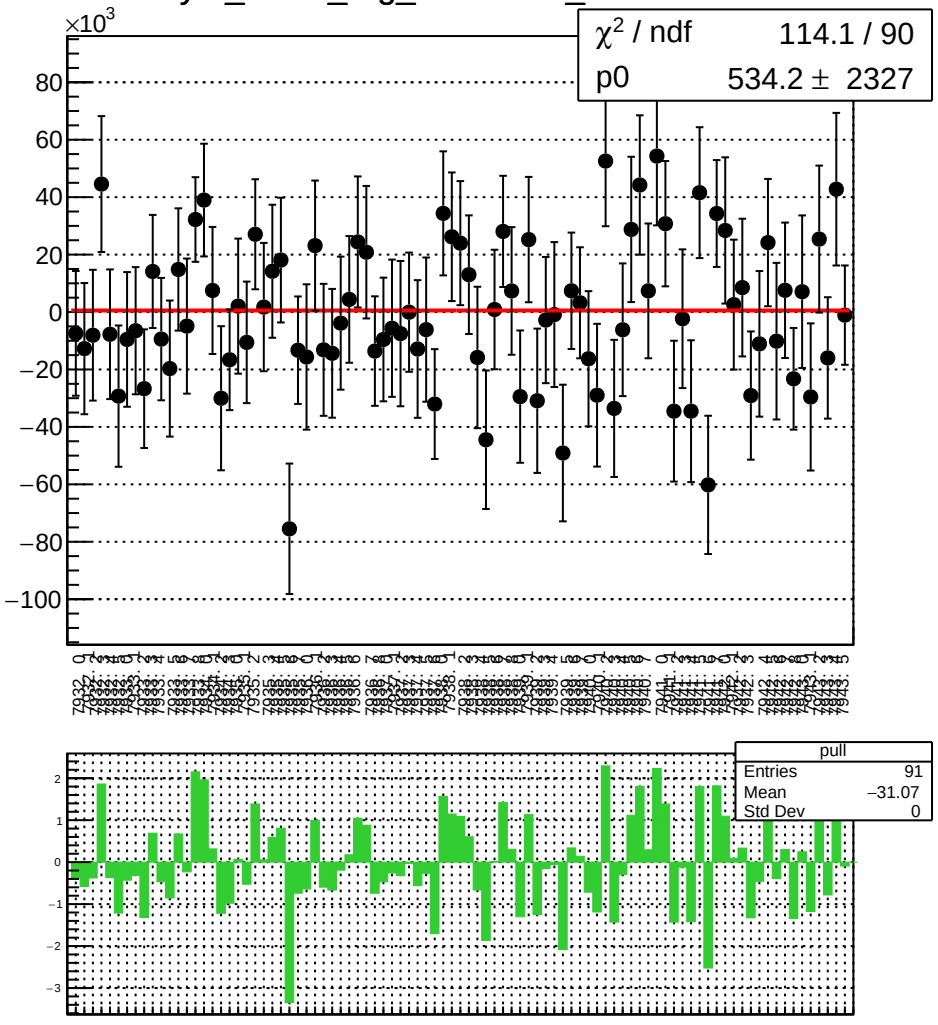

pull1D
Entries 91
Mean −0.07021
Std Dev 0.9754

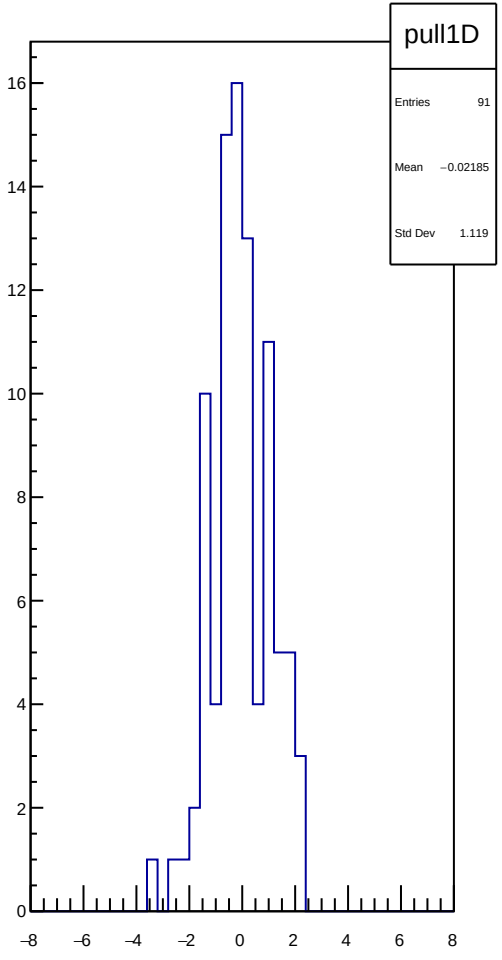

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.495e+05 / 90
p0 6.072e−11 ± 5.546e−14

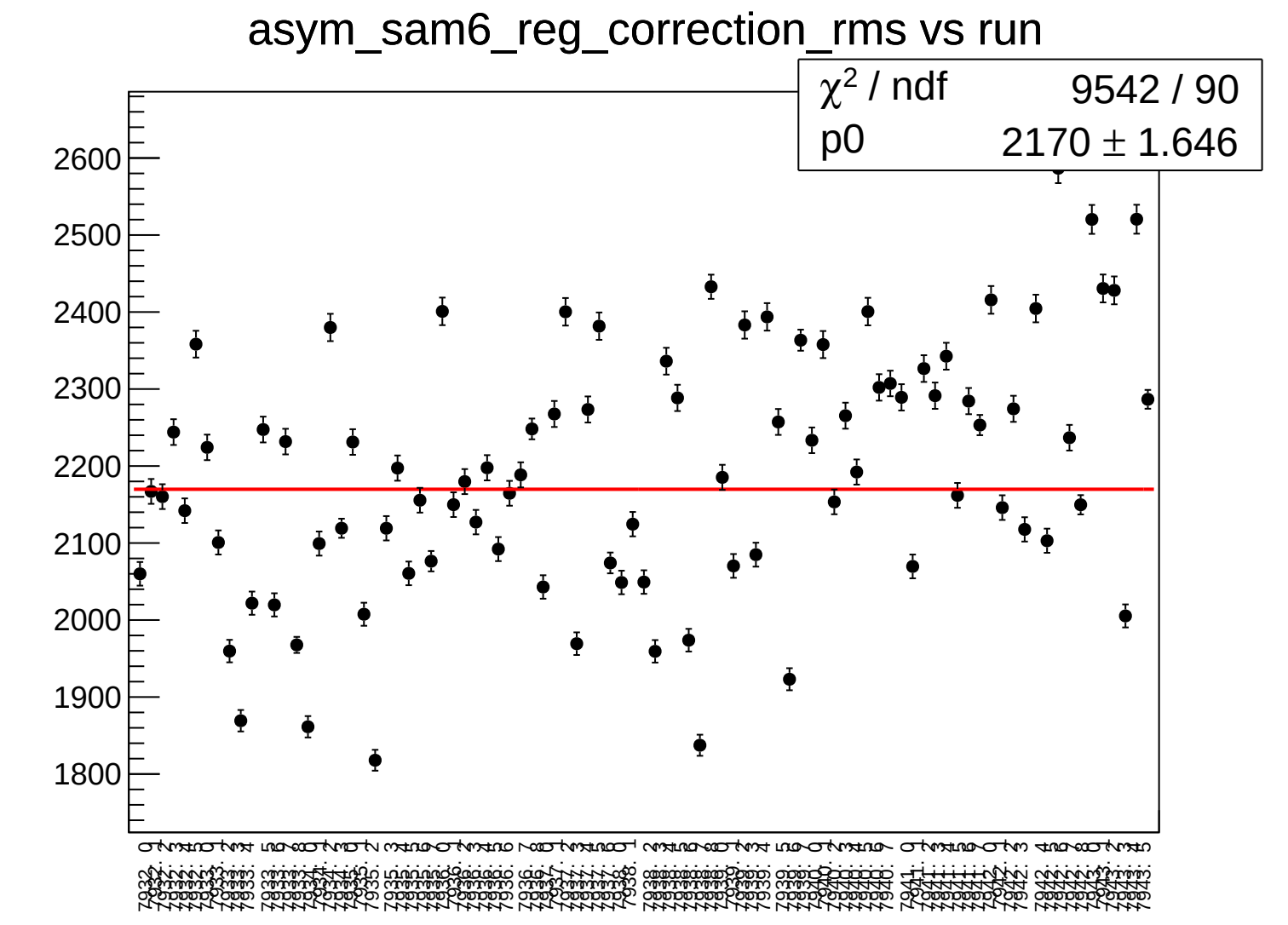

reg_asym_sam6_mean vs run
χ² / ndf 109.6 / 90
p0 763.7 ± 234.4
pull
Entries 91
Mean 156.3
Std Dev 0

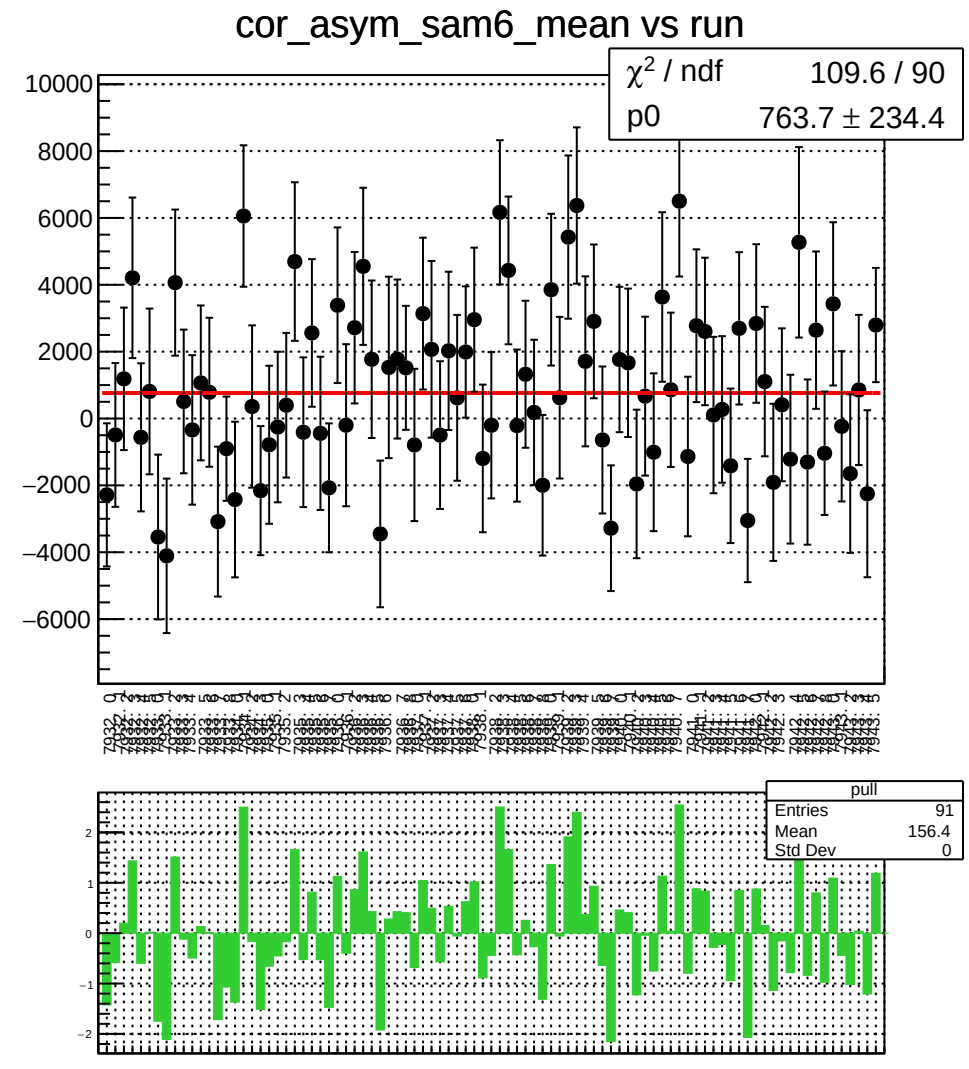

pull1D
Entries 91
Mean 0.0221
Std Dev 1.097

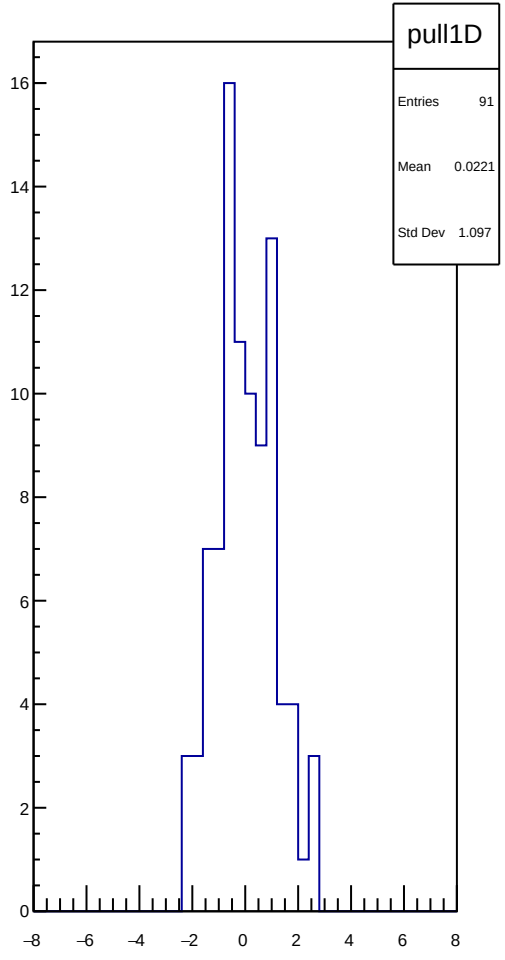

reg_asym_sam6_rms vs run
χ² / ndf 4762 / 90
p0 218.8 ± 0.1657
270
260
250
240
230
220
210
200

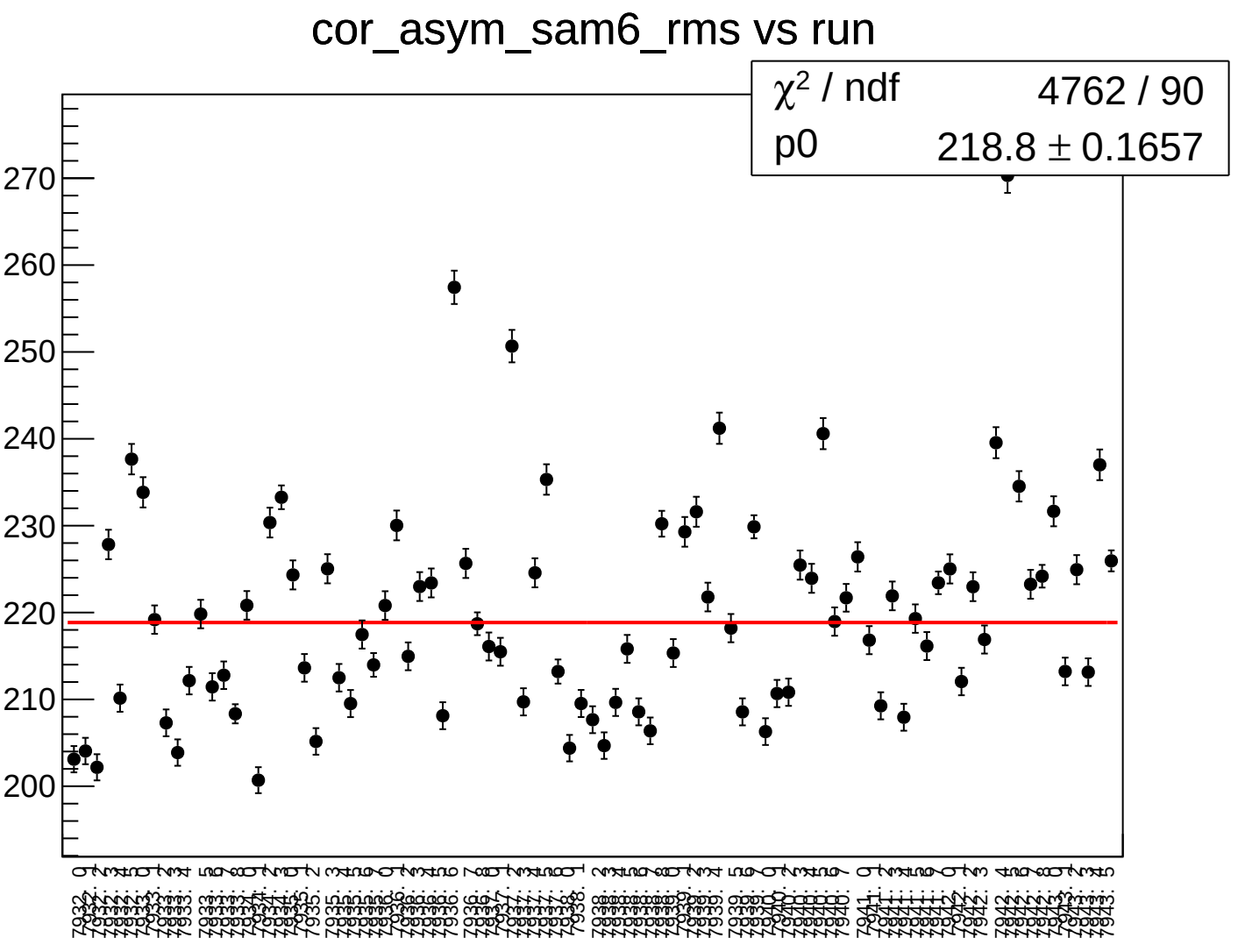

asym_sam6_reg_correction_mean vs run
χ² / ndf 114.1 / 90
p0 534.2 ± 2327
×10³
pull
Entries 91
Mean −31.07
Std Dev 0

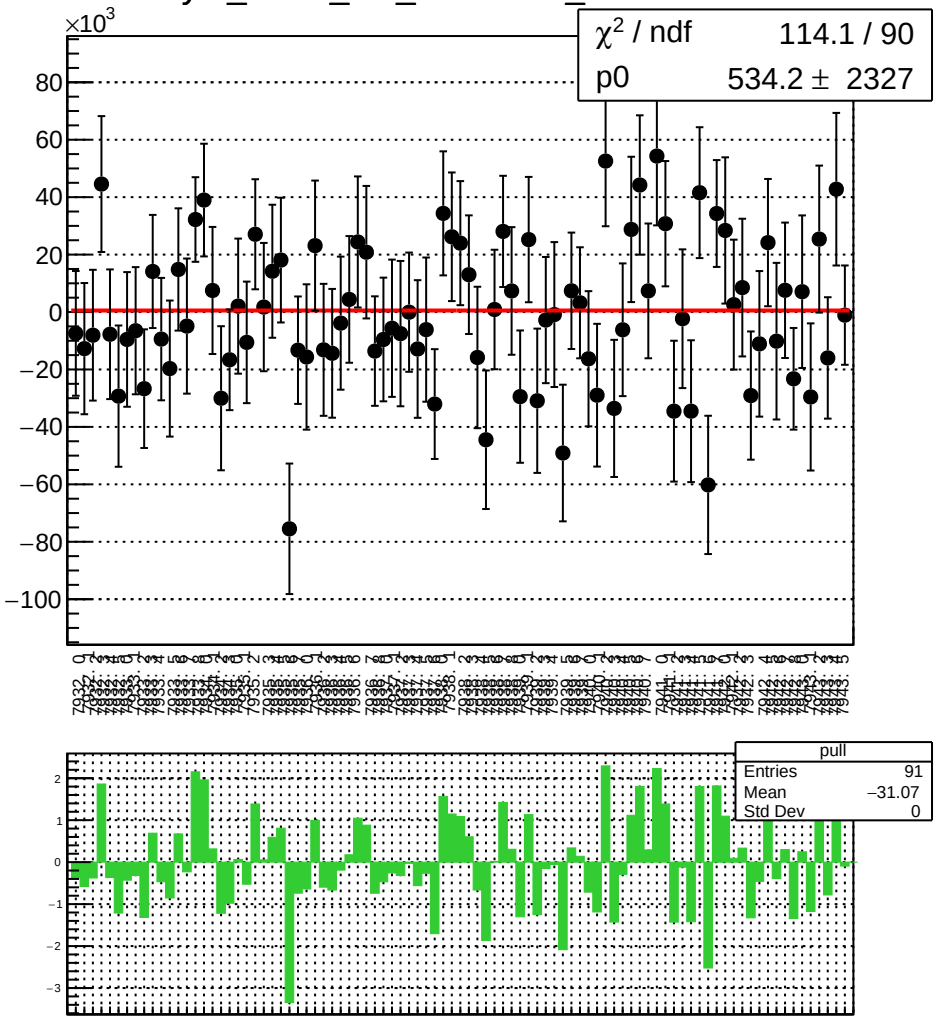

pull1D
Entries 91
Mean −0.02185
Std Dev 1.119

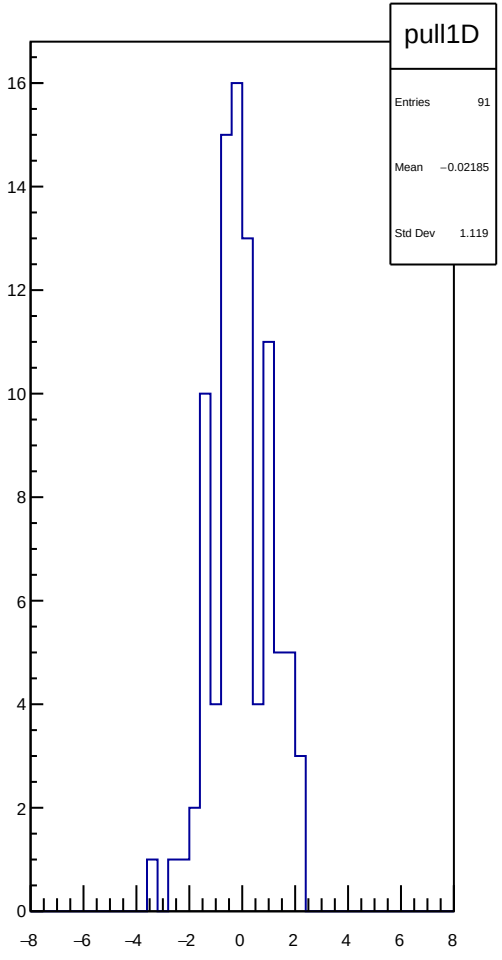

asym_sam6_reg_correction_rms vs run
χ² / ndf 9542 / 90
p0 2170 ± 1.646
2600
2500
2400
2300
2200
2100
2000
1900
1800

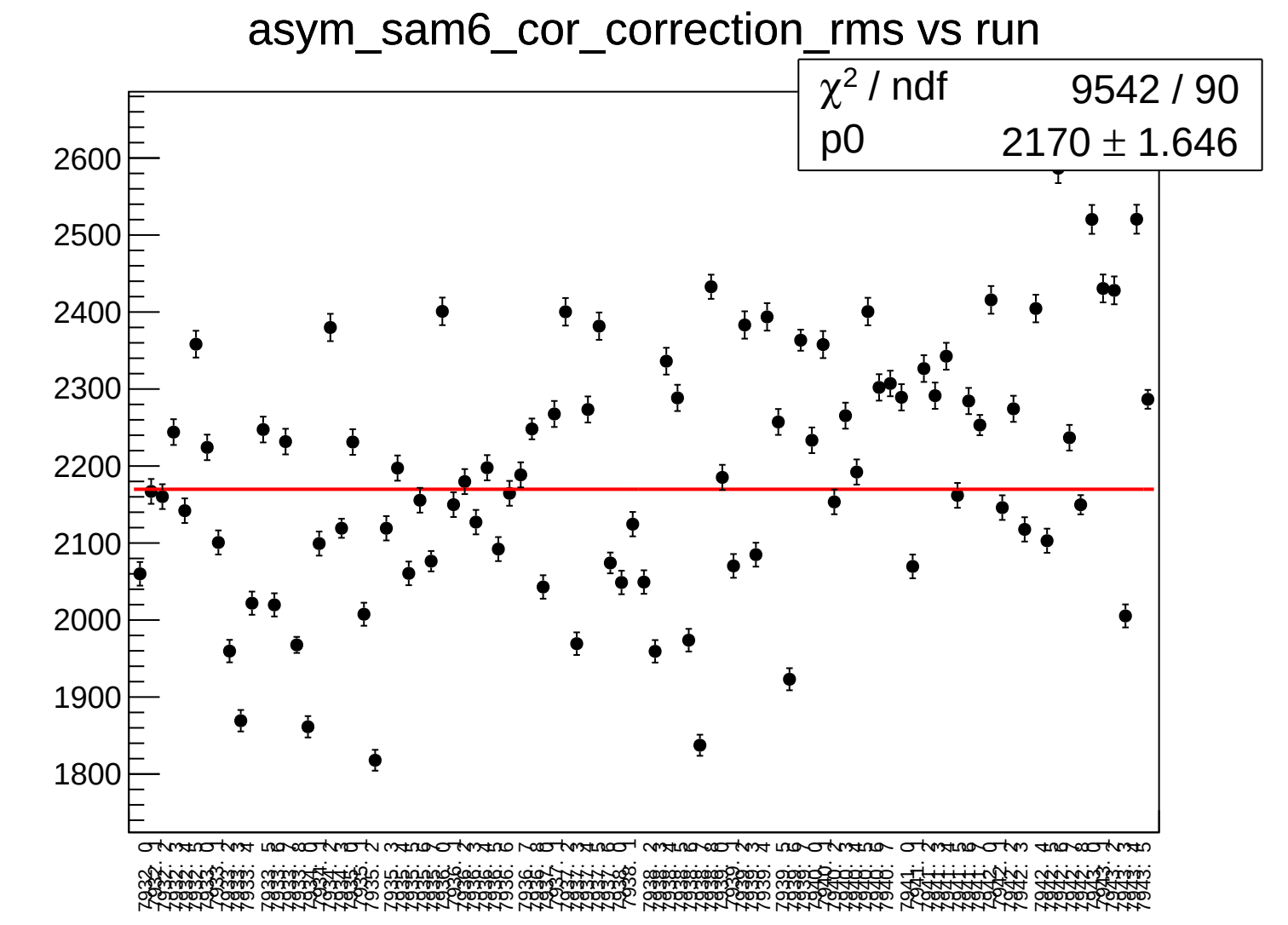

cor_asym_sam6_mean vs run
χ² / ndf 109.6 / 90
p0 763.7 ± 234.4
pull
Entries 91
Mean 156.4
Std Dev 0

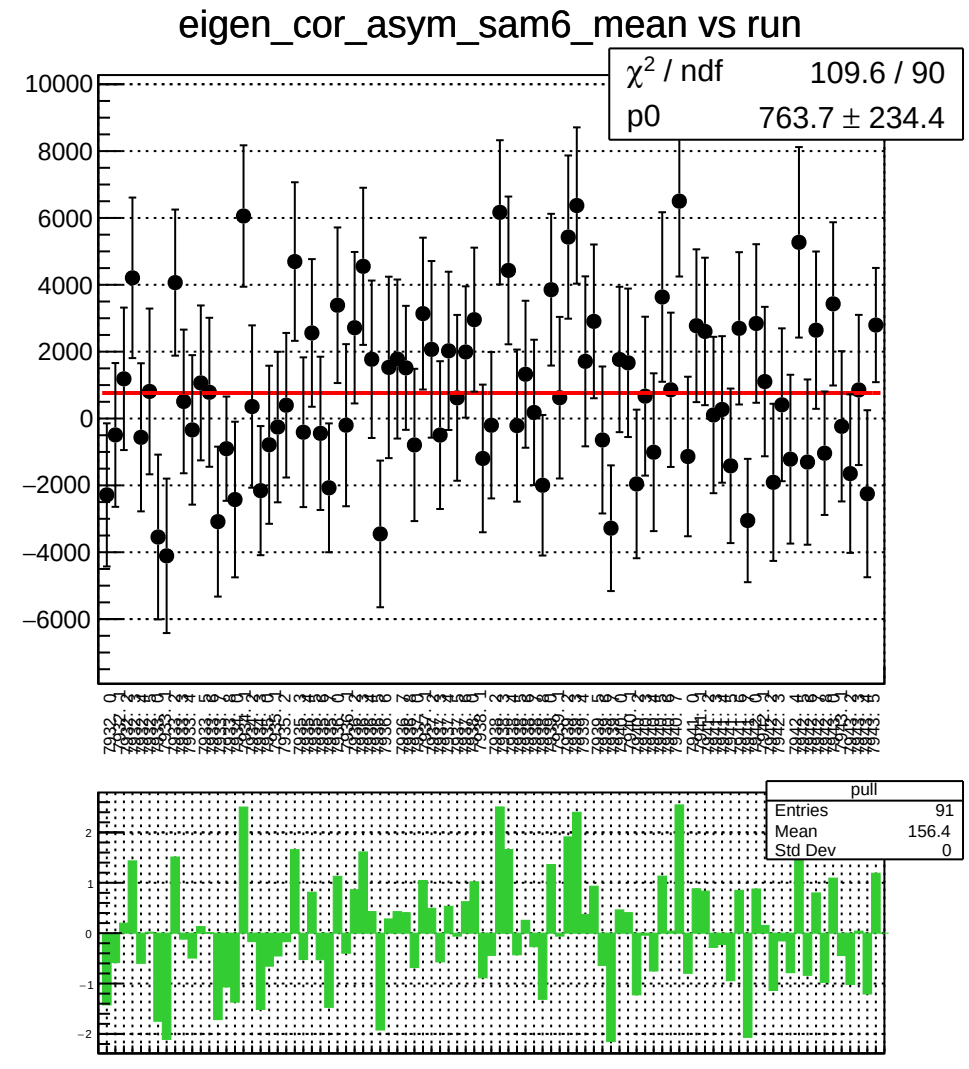

pull1D
Entries 91
Mean 0.0221
Std Dev 1.097

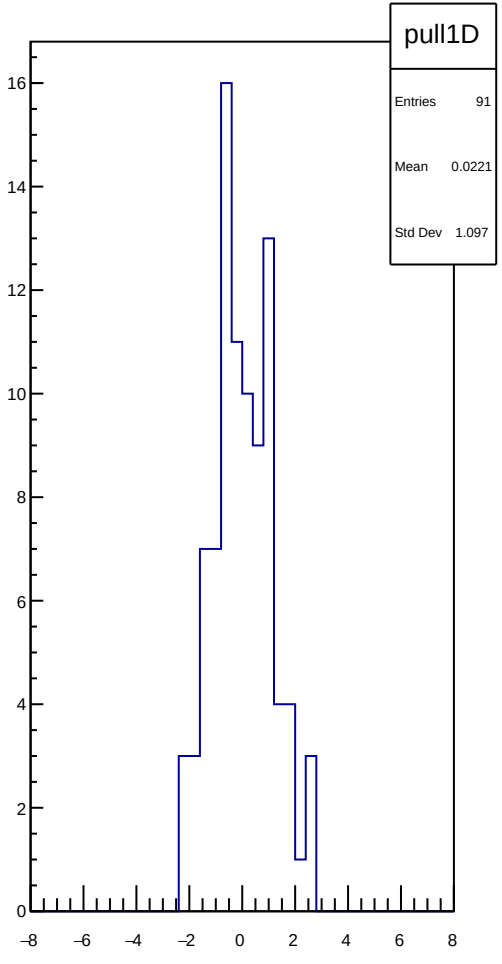

cor_asym_sam6_rms vs run
χ² / ndf 4762 / 90
p0 218.8 ± 0.1657
270
260
250
240
230
220
210
200

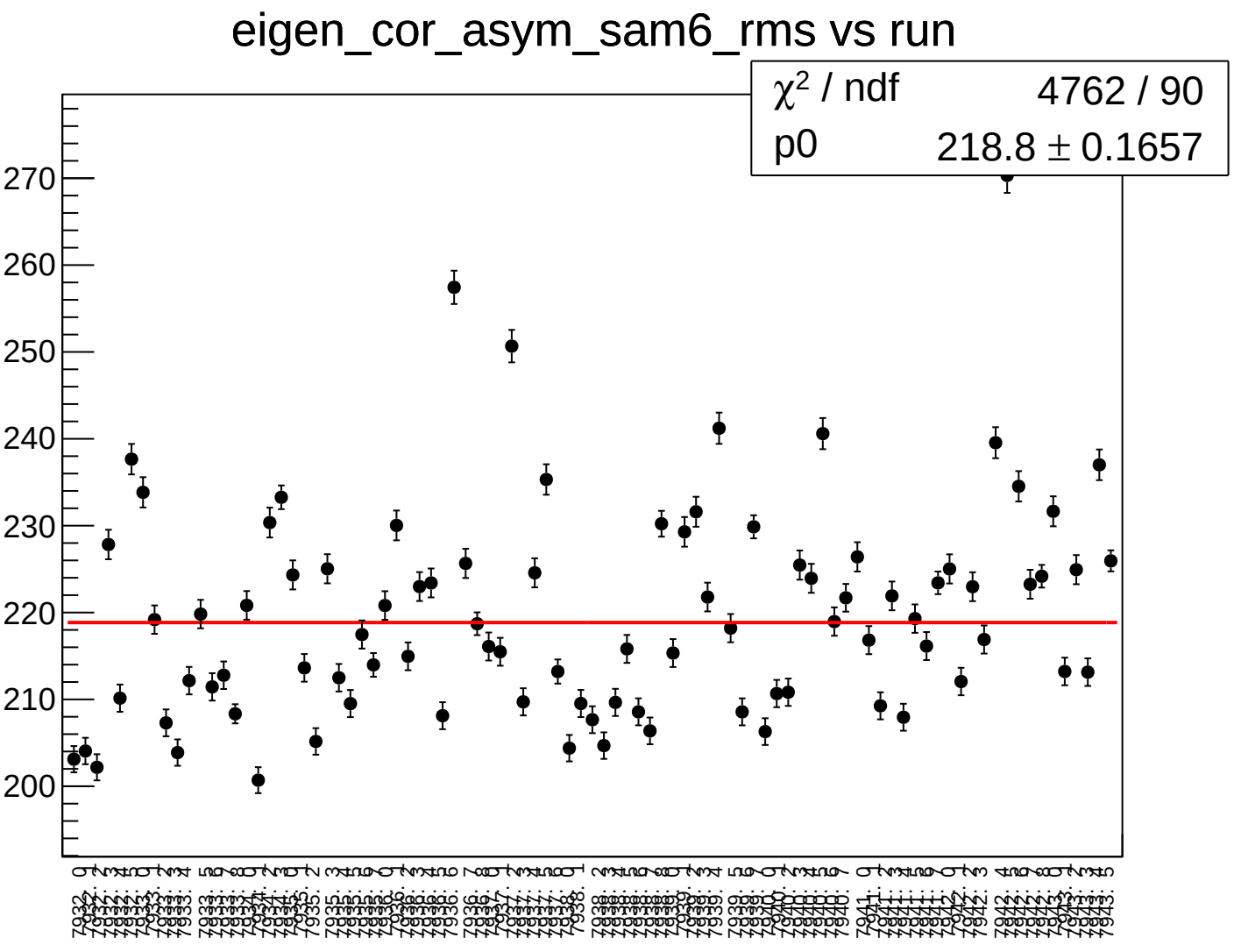

asym_sam6_cor_correction_mean vs run
×10^3
χ² / ndf 114.1 / 90
p0 534.2 ± 2327
pull
Entries 91
Mean −31.07
Std Dev 0


pull1D
Entries 91
Mean −0.02185
Std Dev 1.119

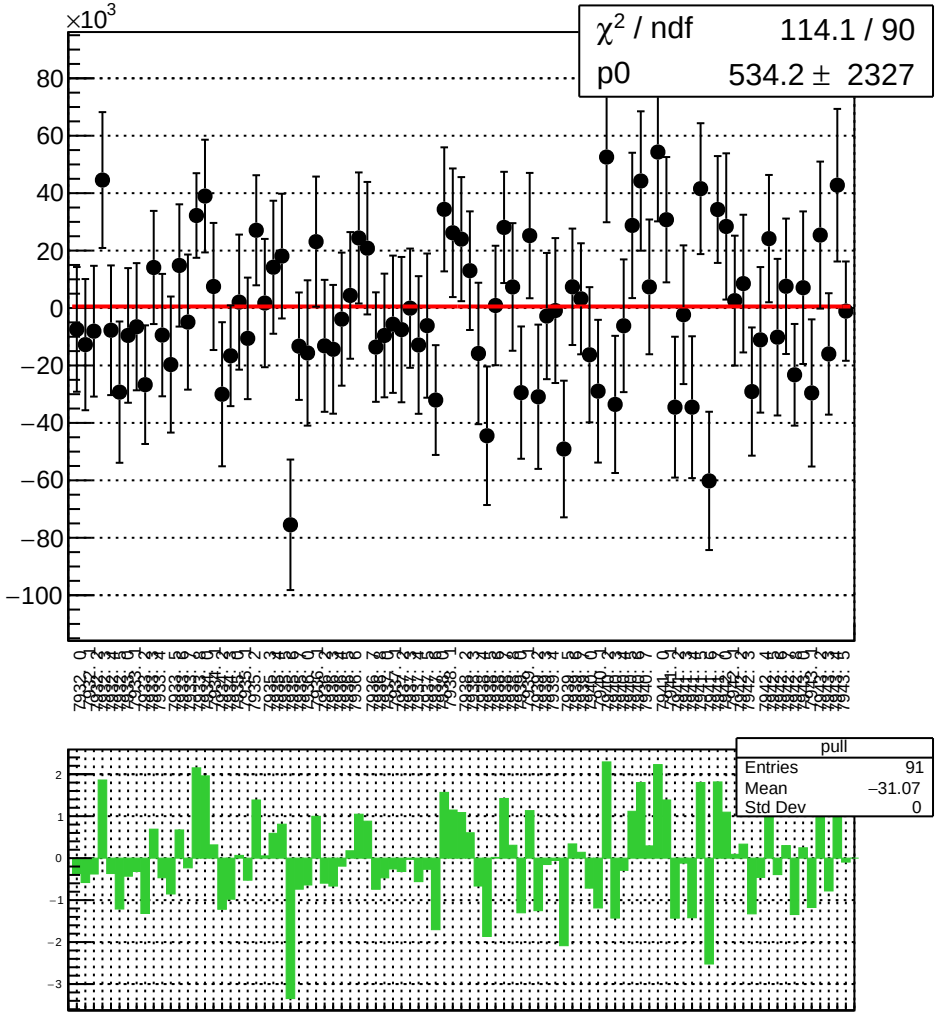

asym_sam6_cor_correction_rms vs run
χ² / ndf 9542 / 90
p0 2170 ± 1.646
2600
2500
2400
2300
2200
2100
2000
1900
1800

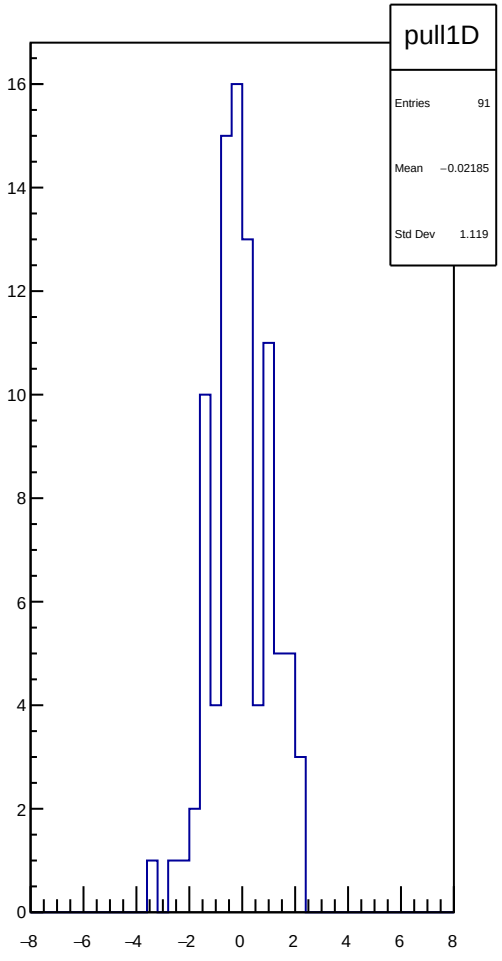

eigen_cor_asym_sam6_mean vs run
χ² / ndf 109.6 / 90
p0 763.7 ± 234.4
pull
Entries 91
Mean 156.4
Std Dev 0

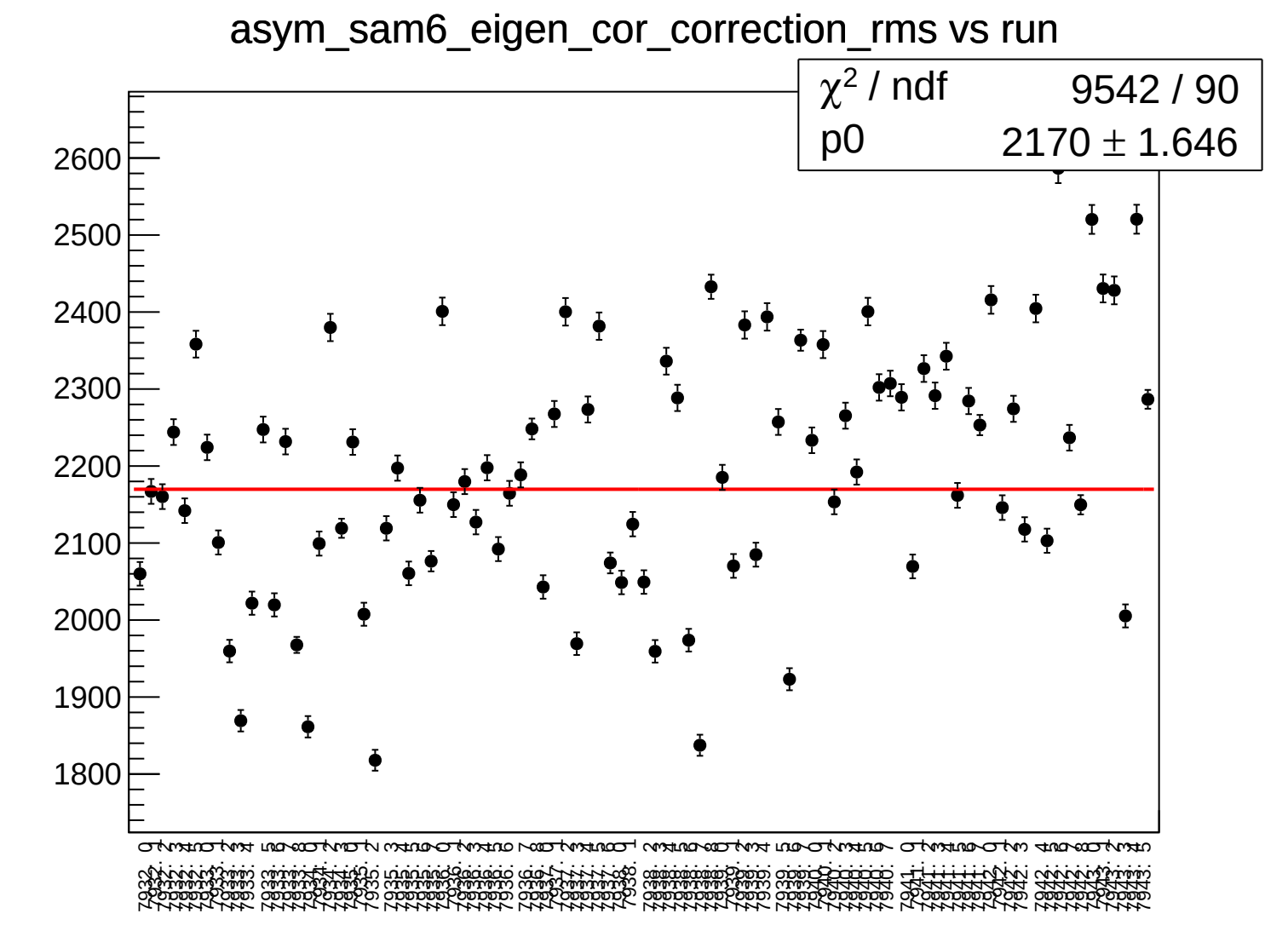

pull1D
Entries 91
Mean 0.0221
Std Dev 1.097

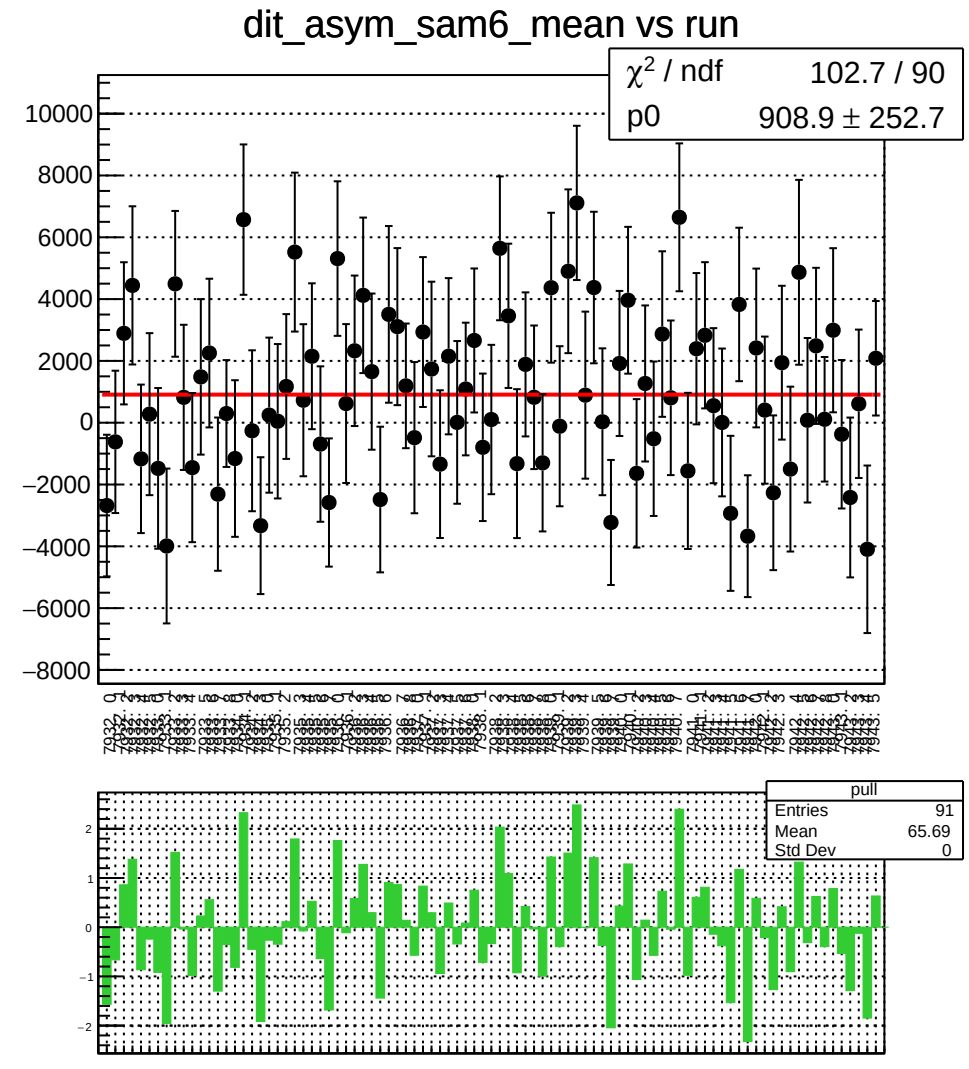

eigen_cor_asym_sam6_rms vs run
χ² / ndf 4762 / 90
p0 218.8 ± 0.1657
270
260
250
240
230
220
210
200

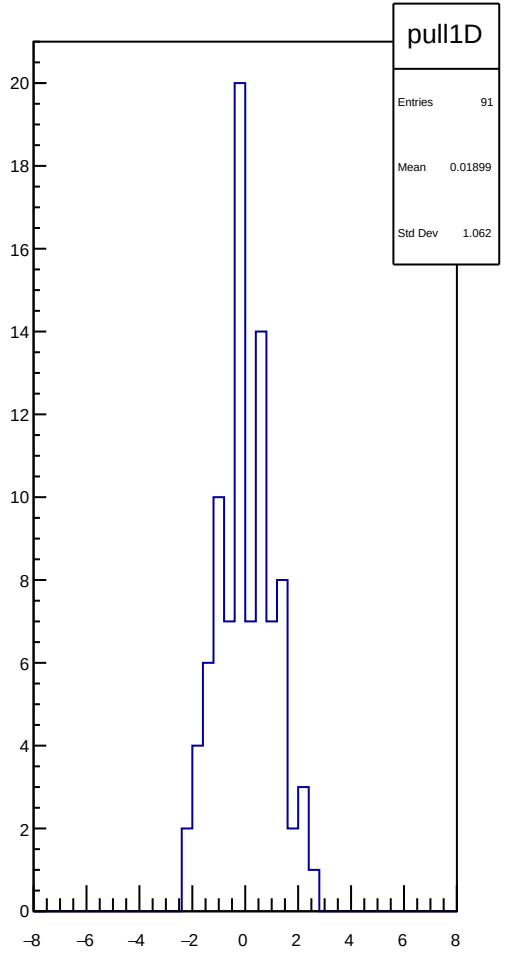
asym_sam6_eigen_cor_correction_mean vs run

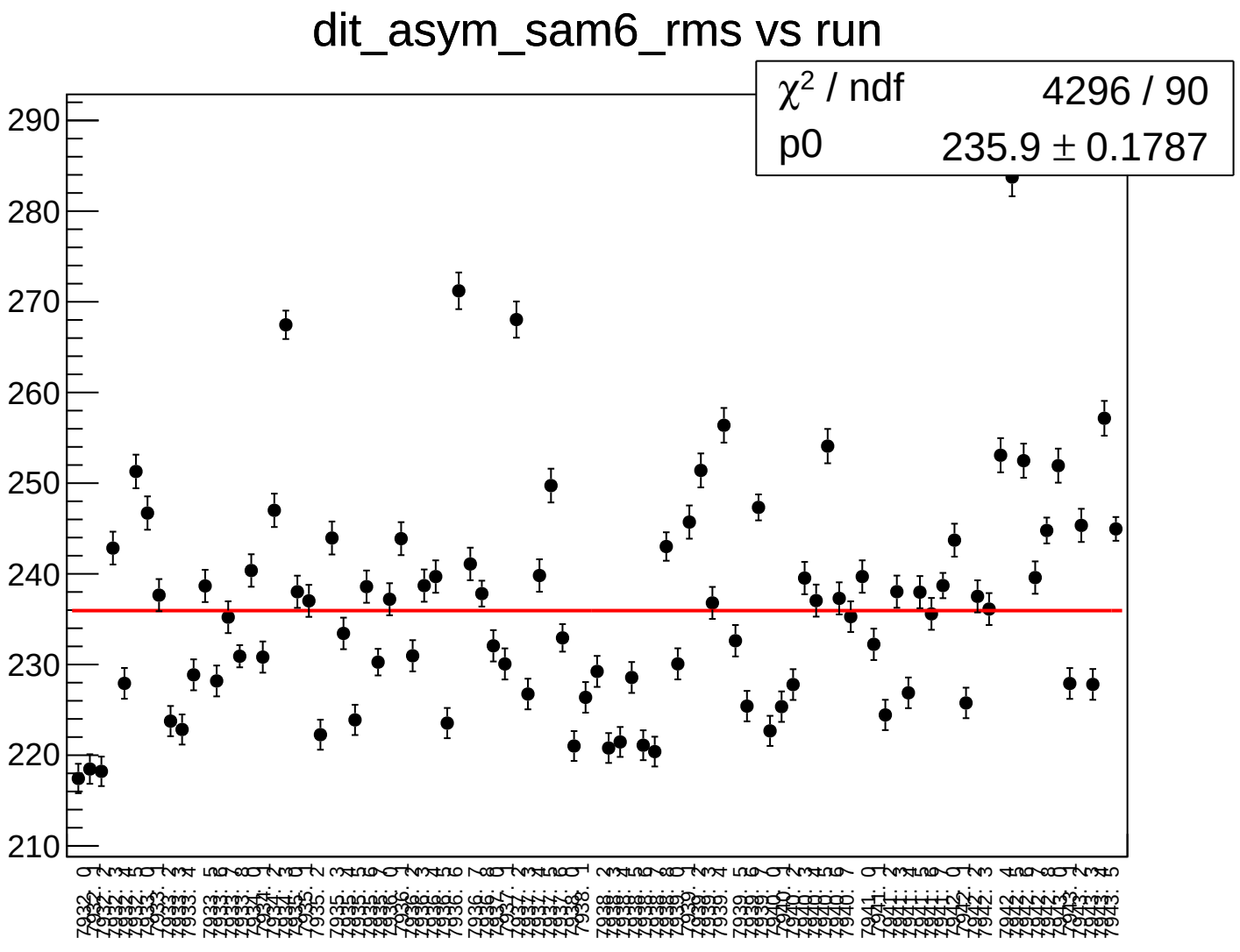


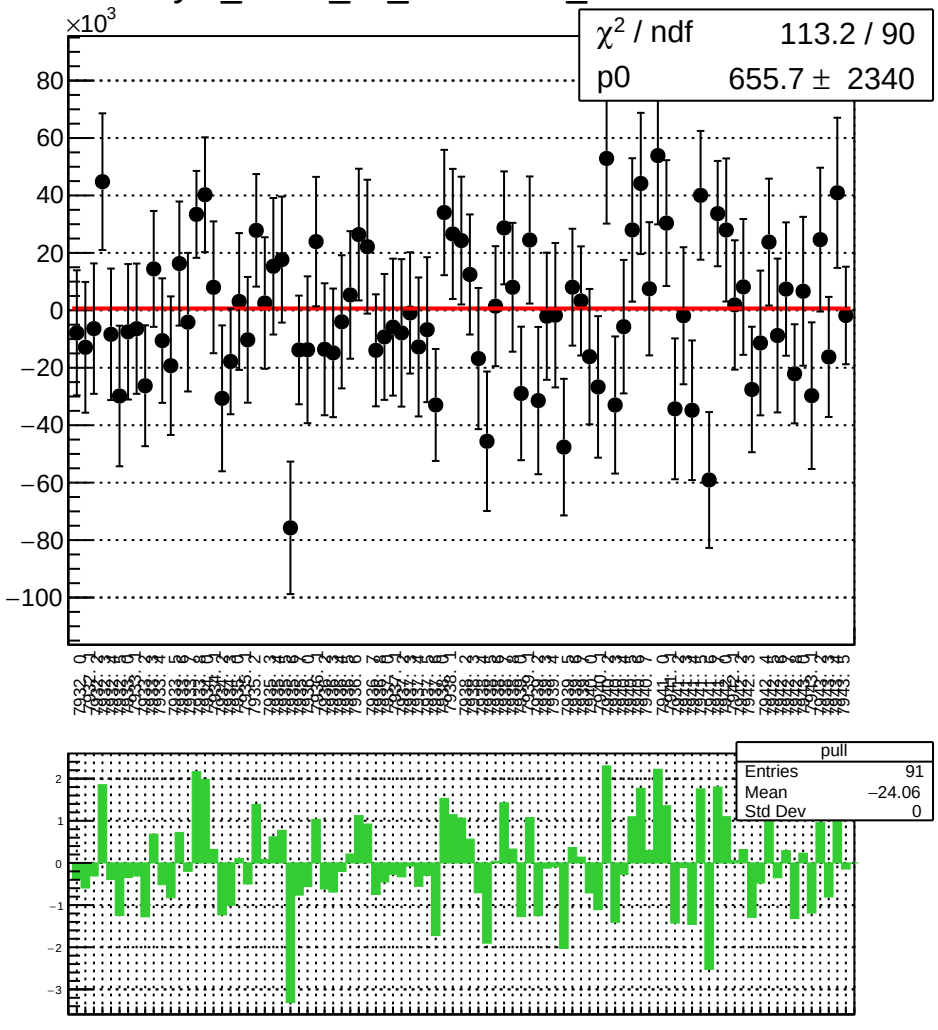


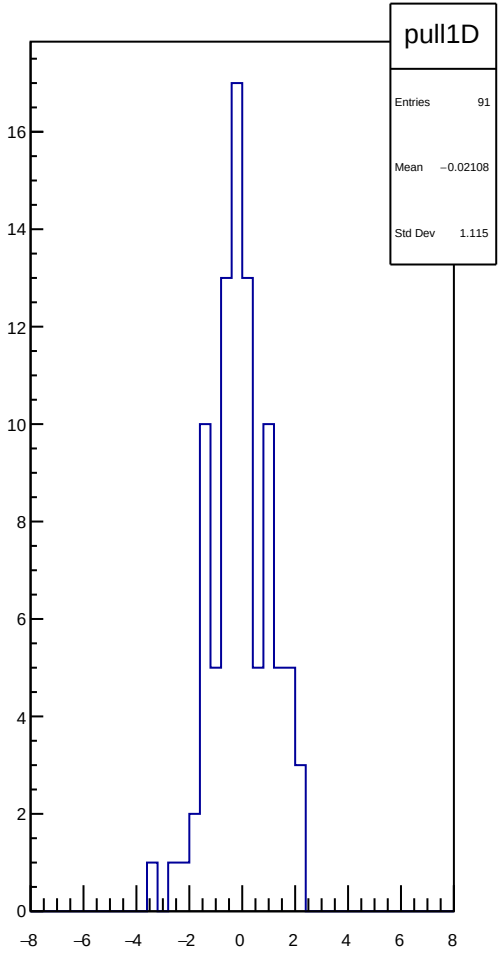

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 9542 / 90
p0 2170 ± 1.646
2600
2500
2400
2300
2200
2100
2000
1900
1800

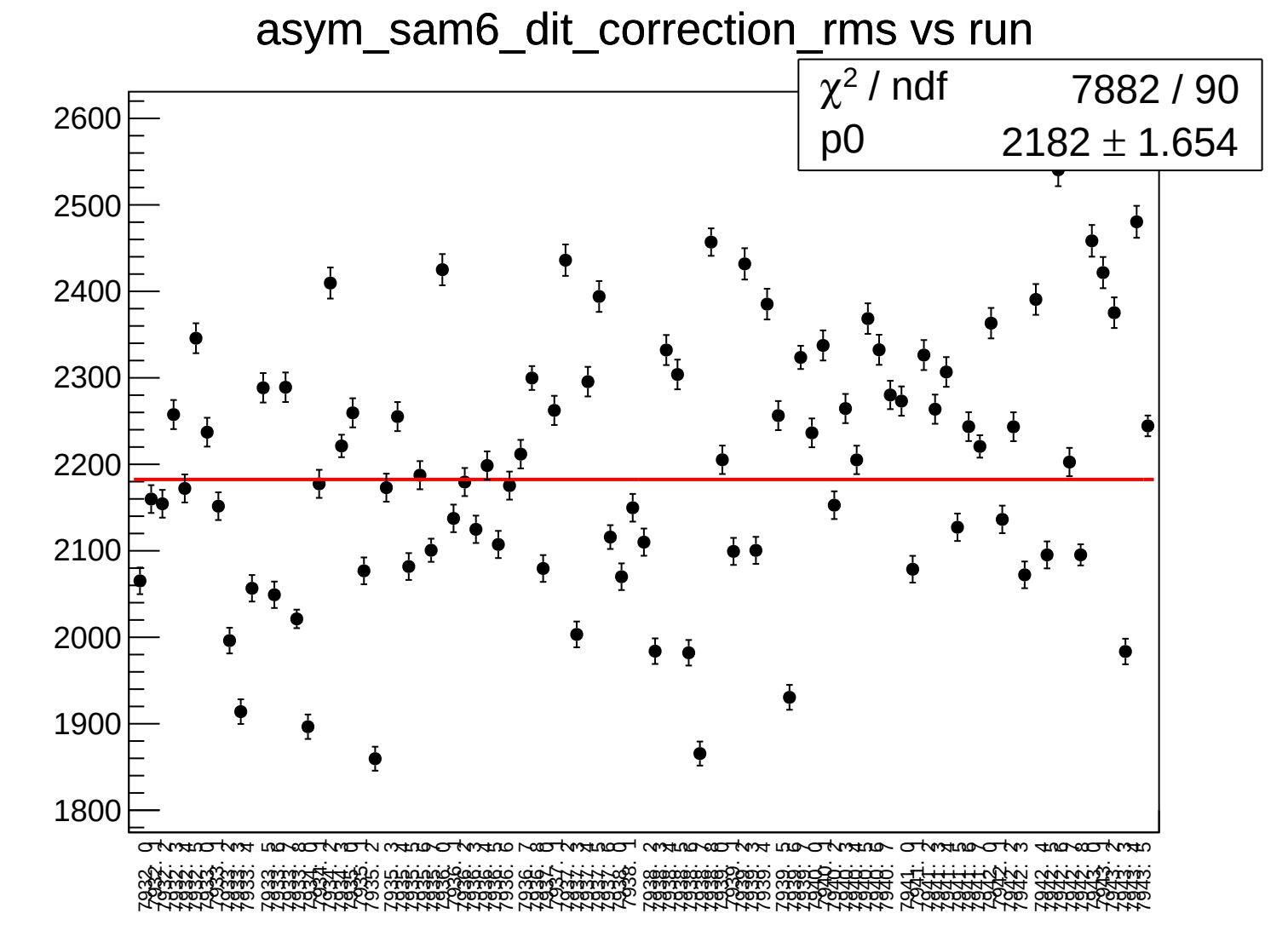

dit_asym_sam6_mean vs run
χ^2 / ndf 102.7 / 90
p0 908.9 ± 252.7
pull
Entries 91
Mean 65.69
Std Dev 0

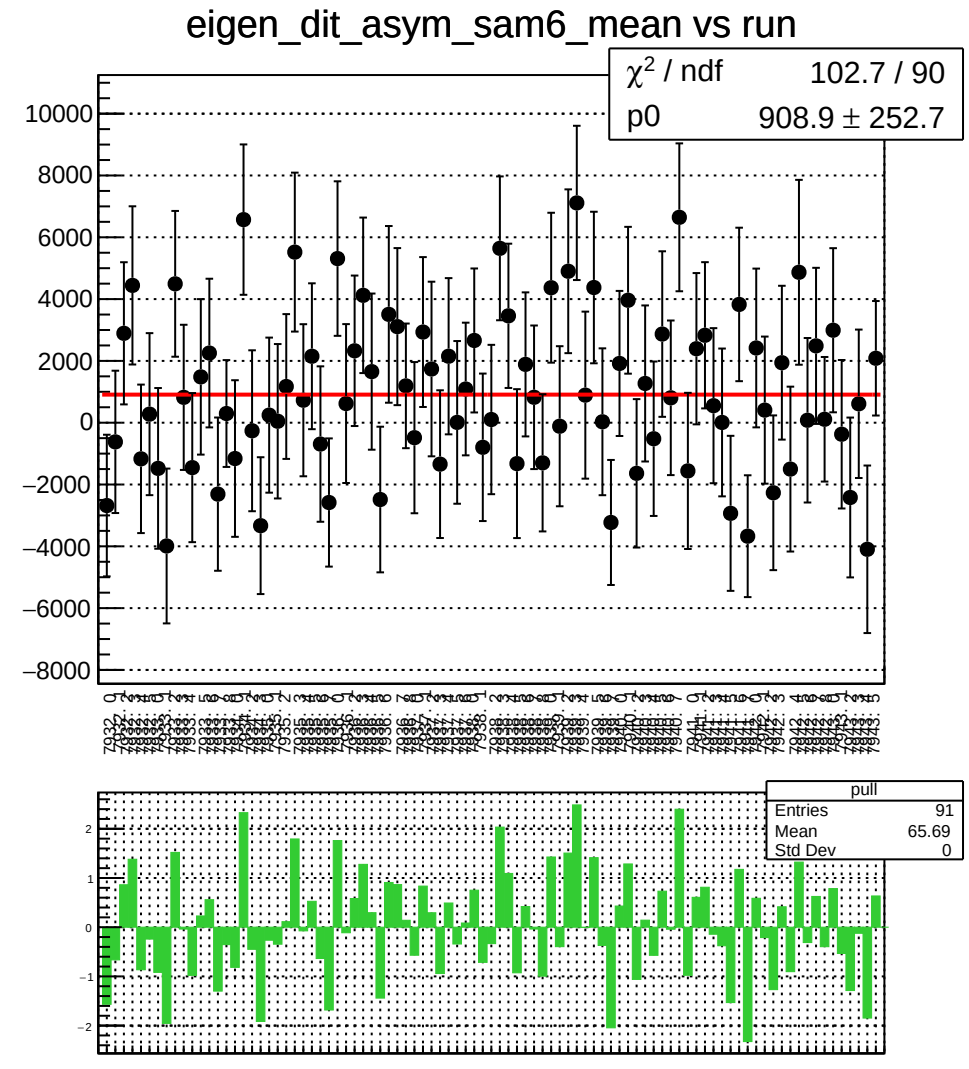

pull1D
Entries 91
Mean 0.01899
Std Dev 1.062

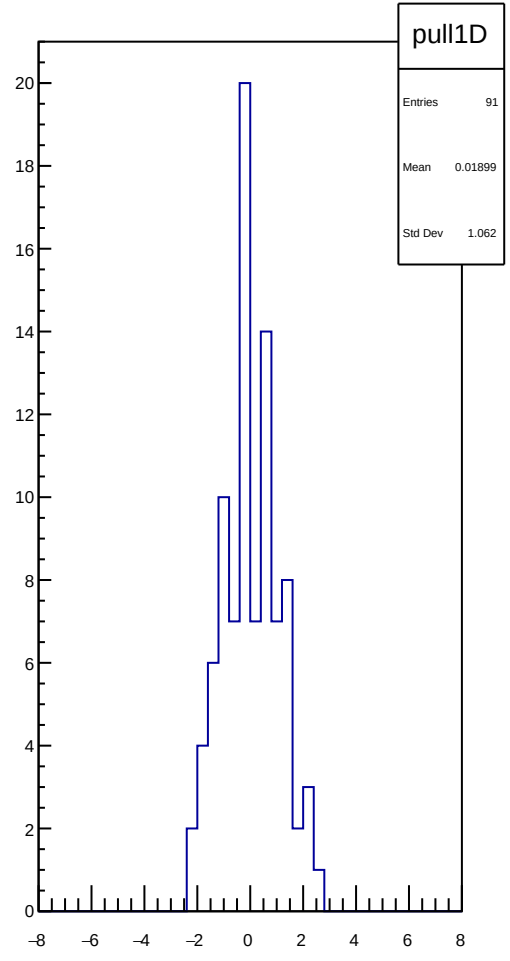

dit_asym_sam6_rms vs run
χ^2 / ndf 4296 / 90
p0 235.9 ± 0.1787
290
280
270
260
250
240
230
220
210

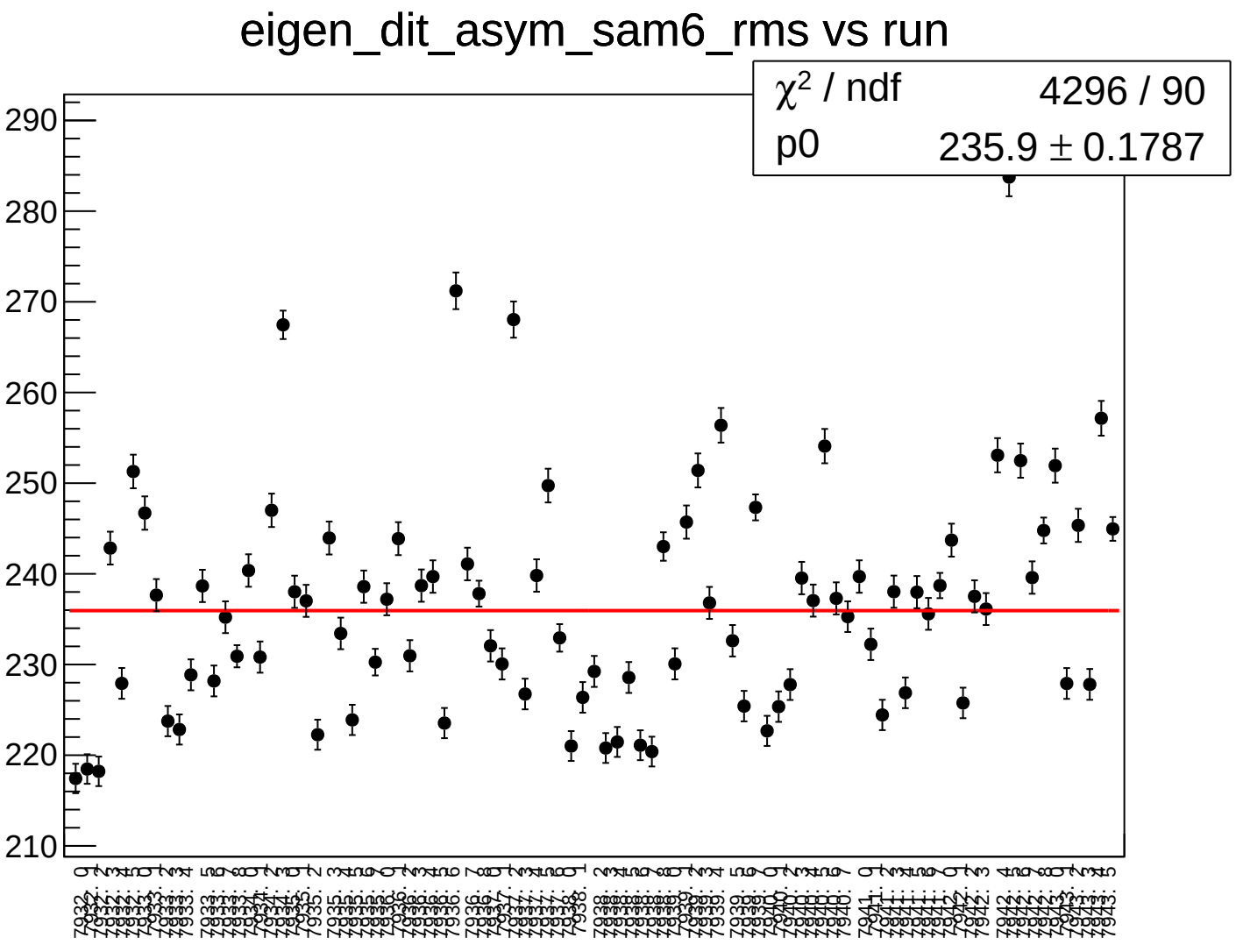

asym_sam6_dit_correction_mean vs run
×10^3
χ² / ndf 113.2 / 90
p0 655.7 ± 2340
pull
Entries 91
Mean −24.06
Std Dev 0

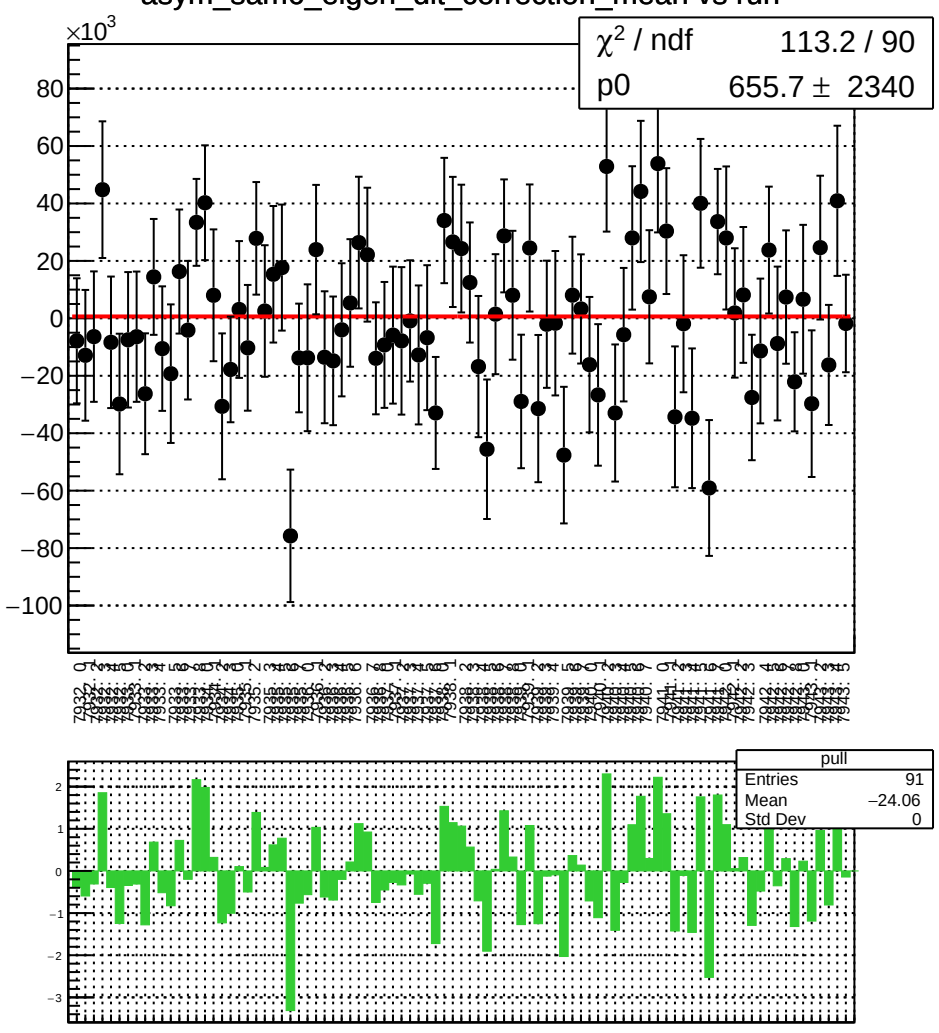

pull1D
Entries 91
Mean −0.02108
Std Dev 1.115

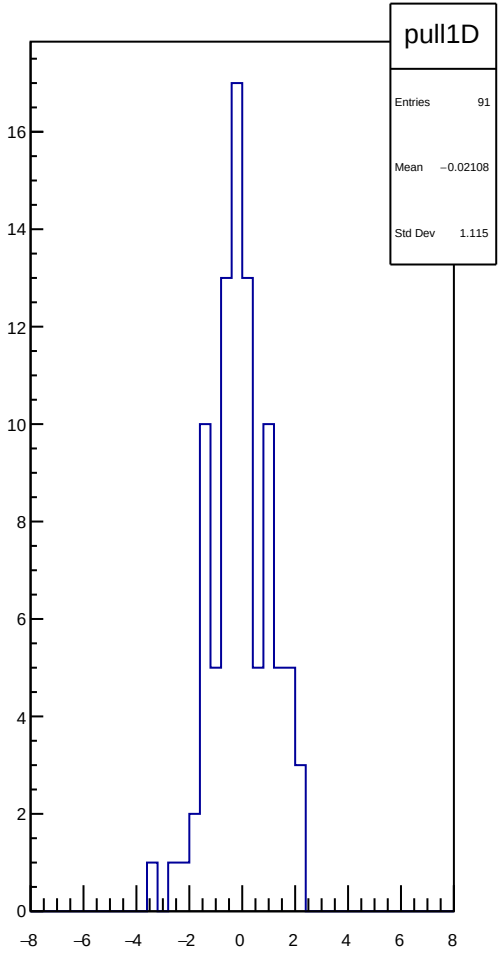

asym_sam6_dit_correction_rms vs run
χ² / ndf 7882 / 90
p0 2182 ± 1.654
2600
2500
2400
2300
2200
2100
2000
1900
1800

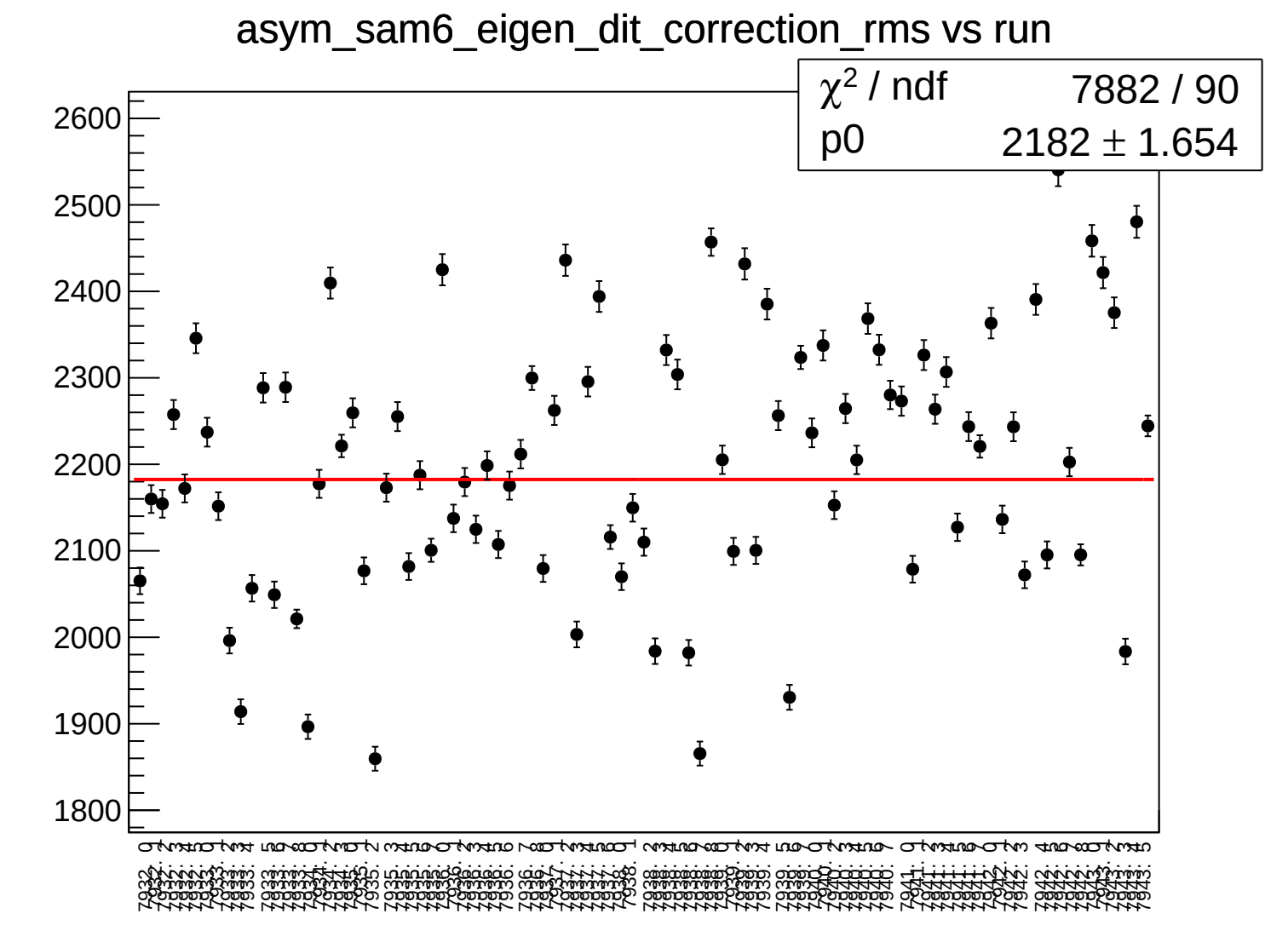

eigen_dit_asym_sam6_mean vs run
χ^2 / ndf 102.7 / 90
p0 908.9 ± 252.7
pull
Entries 91
Mean 65.69
Std Dev 0

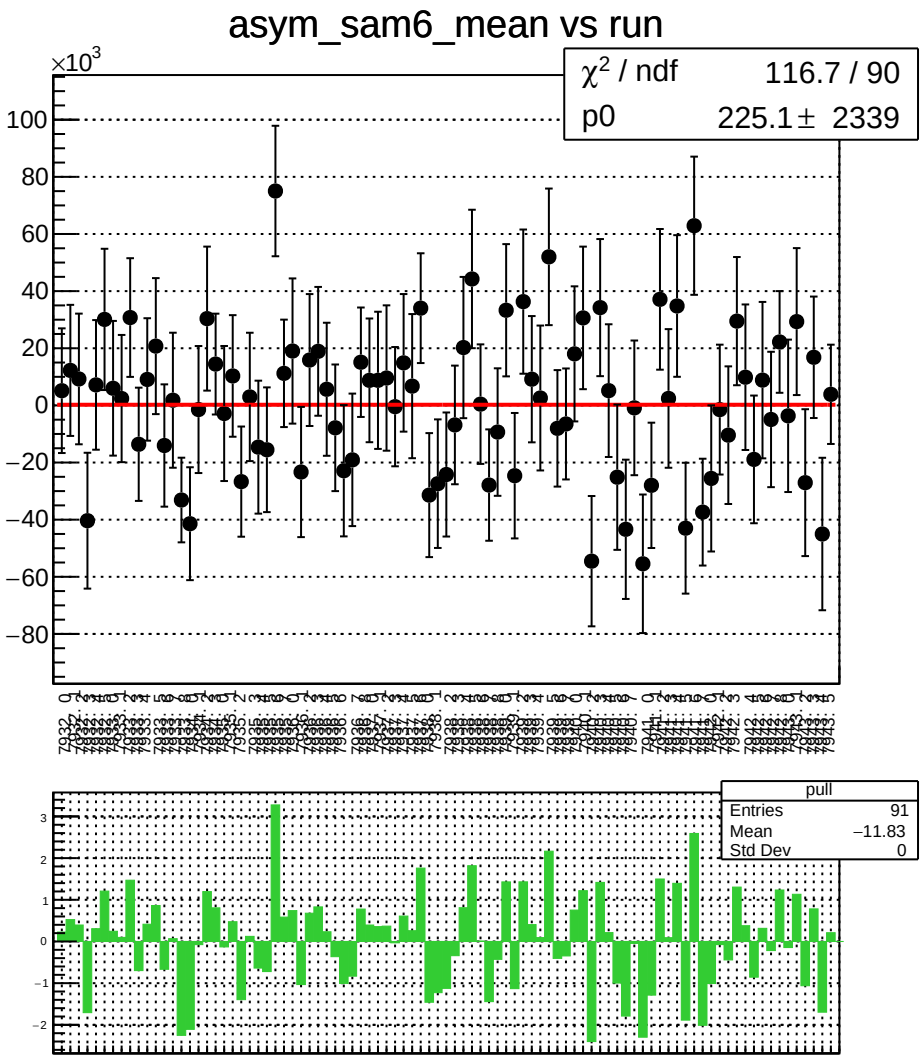

pull1D
Entries 91
Mean 0.01899
Std Dev 1.062

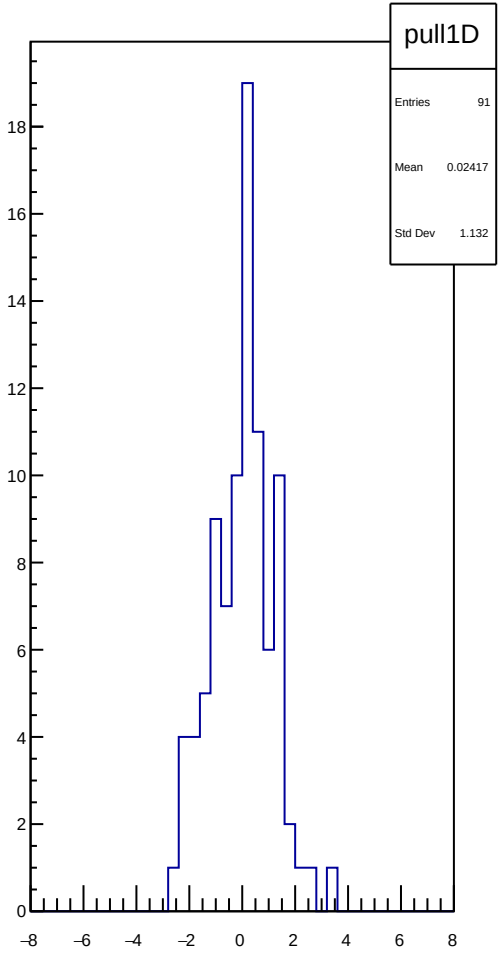

eigen_dit_asym_sam6_rms vs run
χ² / ndf 4296 / 90
p0 235.9 ± 0.1787
290
280
270
260
250
240
230
220
210

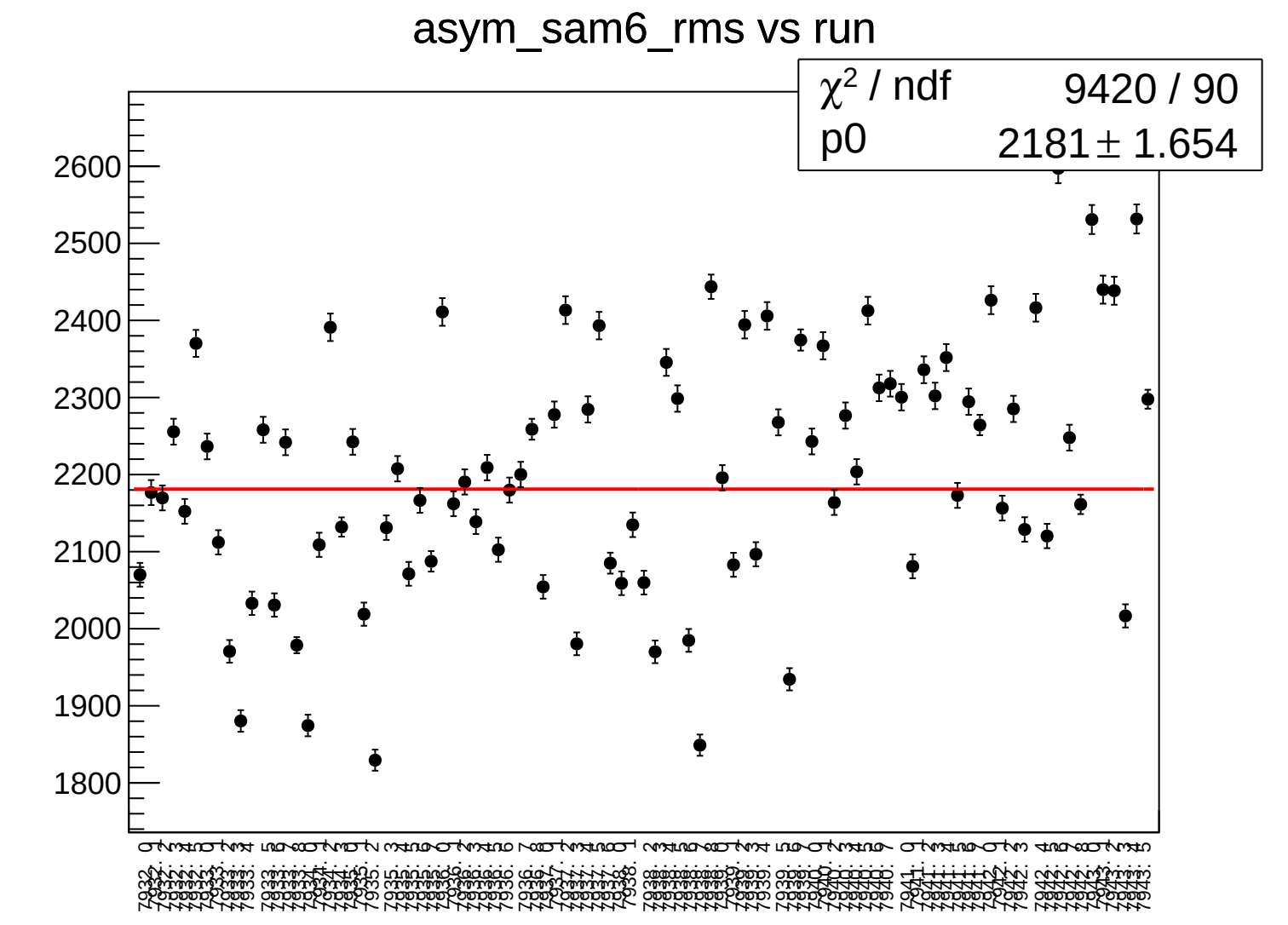

asym_sam6_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113.2 / 90
p0 655.7 ± 2340
pull
Entries 91
Mean −24.06
Std Dev 0

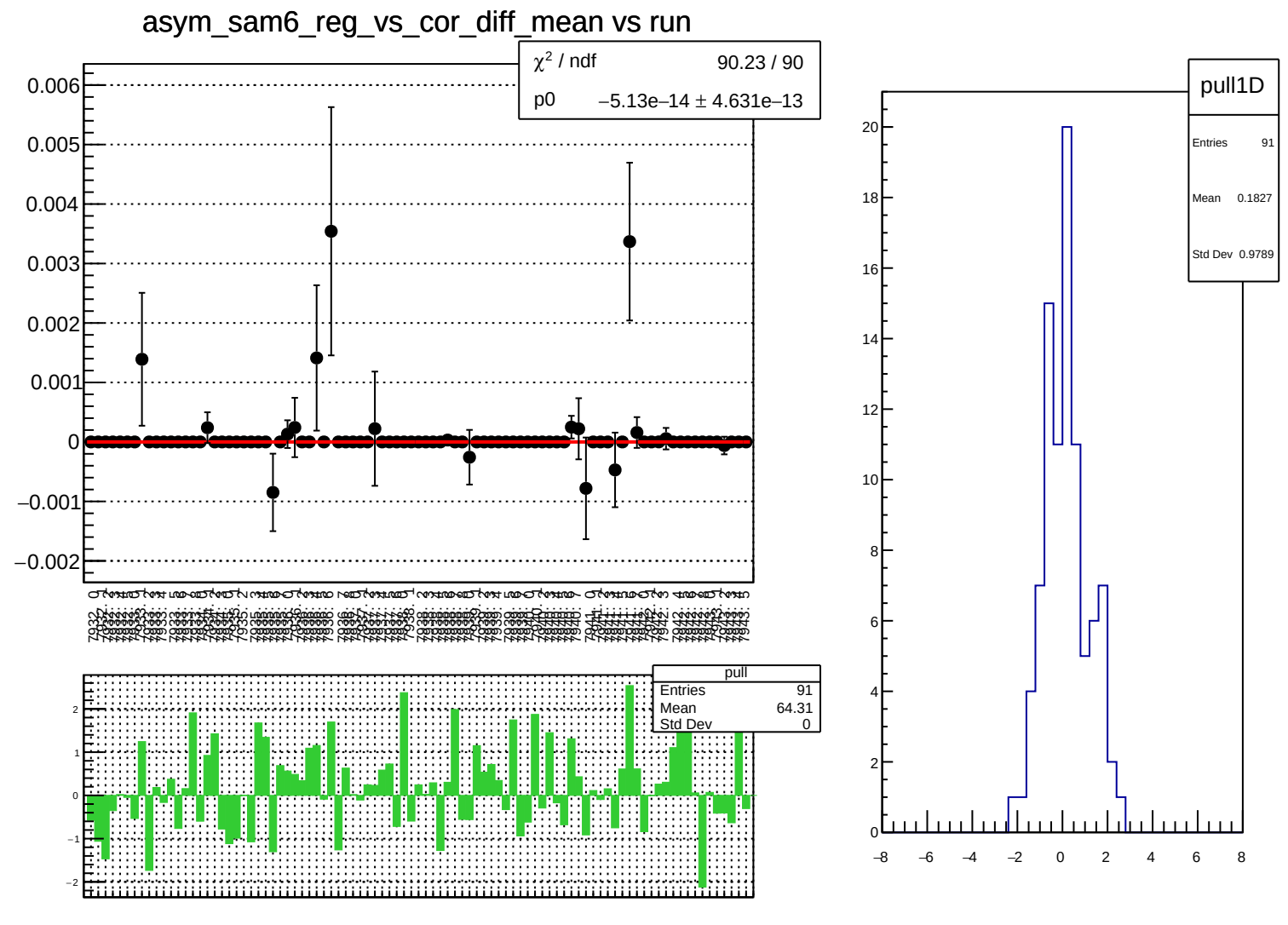

pull1D
Entries 91
Mean −0.02108
Std Dev 1.115

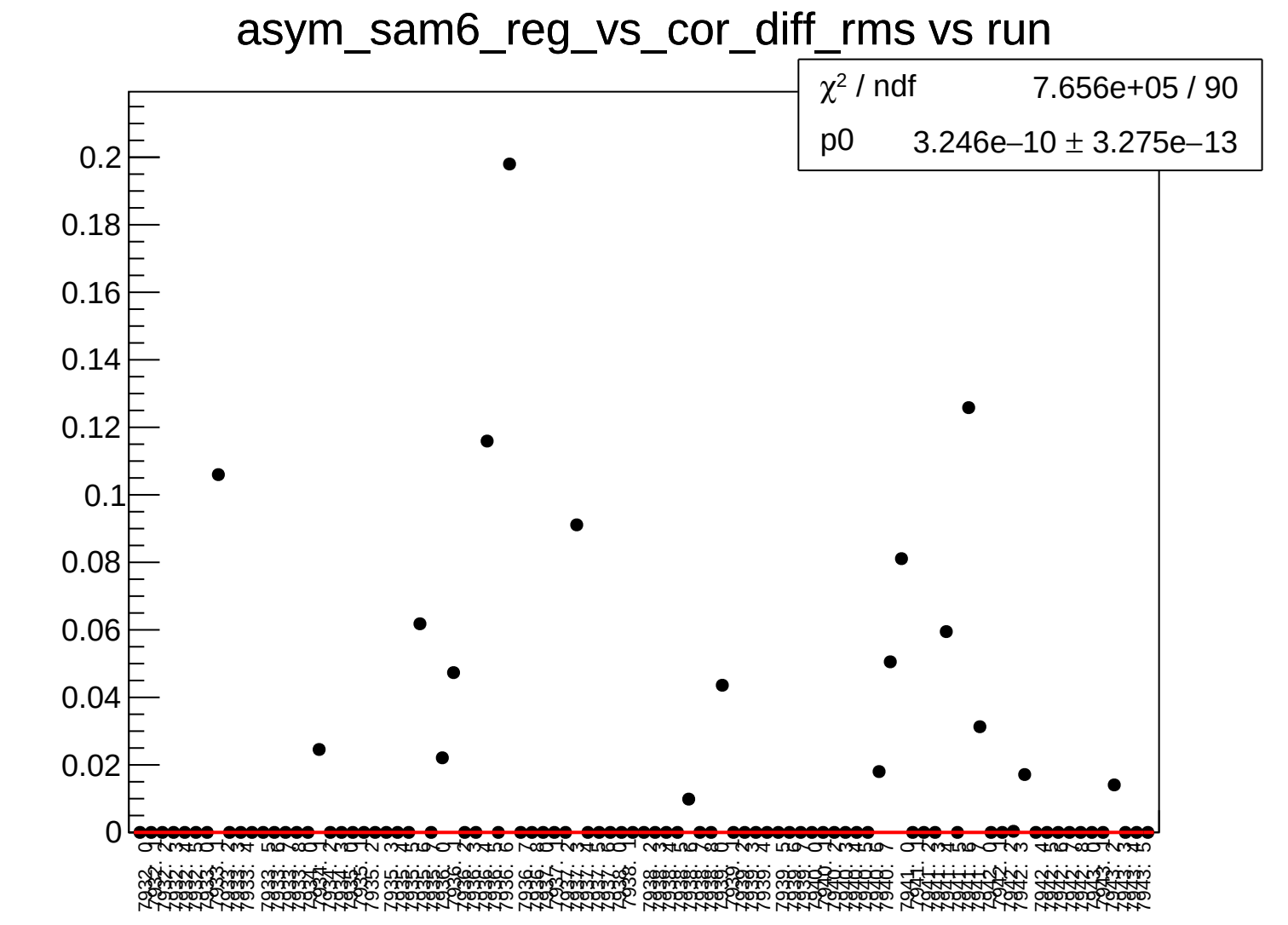

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 7882 / 90
p0 2182 ± 1.654
2600
2500
2400
2300
2200
2100
2000
1900
1800

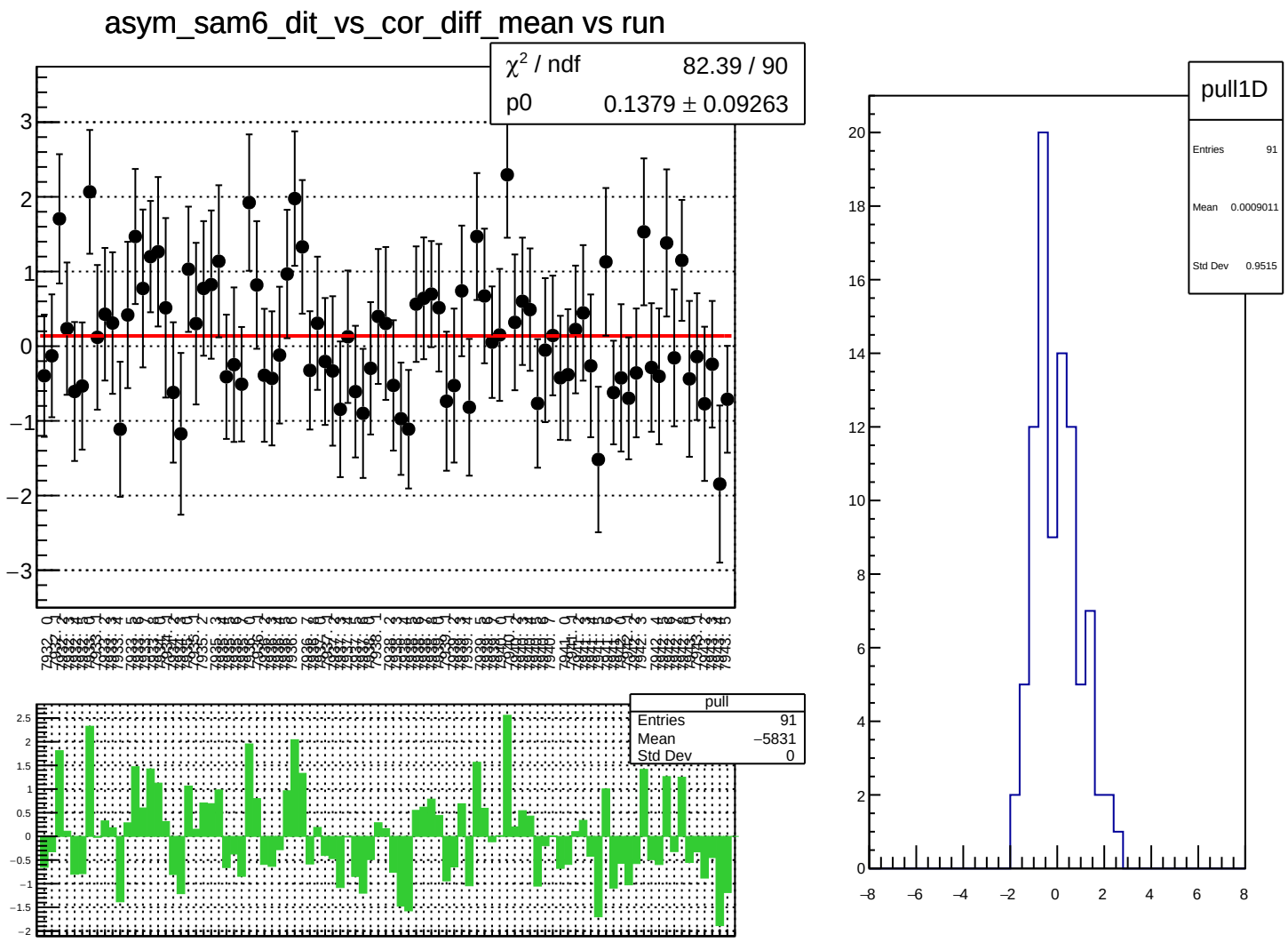

asym_sam6_mean vs run
×10^3
χ^2 / ndf 116.7 / 90
p0 225.1 ± 2339
pull
Entries 91
Mean −11.83
Std Dev 0

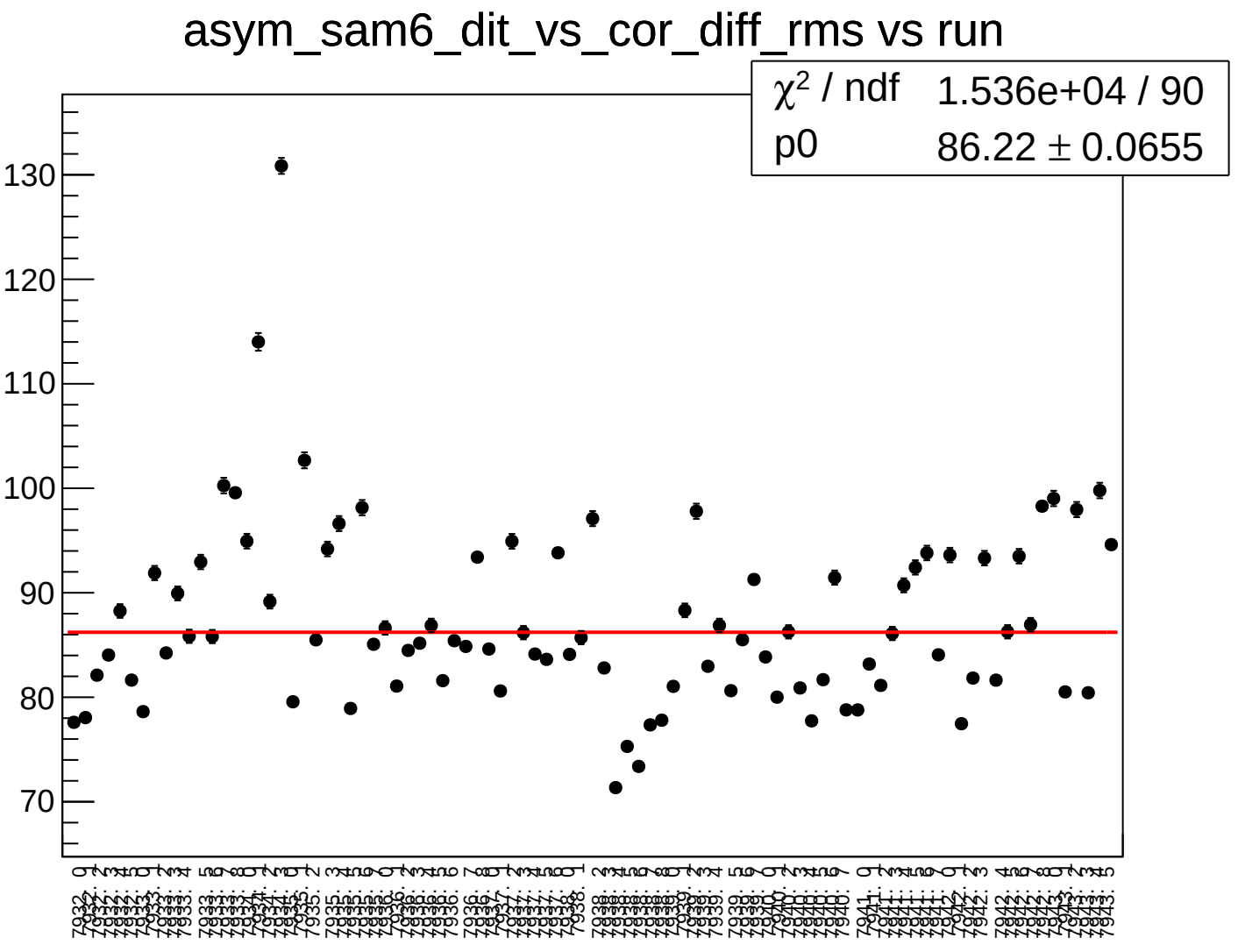

pull1D
Entries 91
Mean 0.02417
Std Dev 1.132

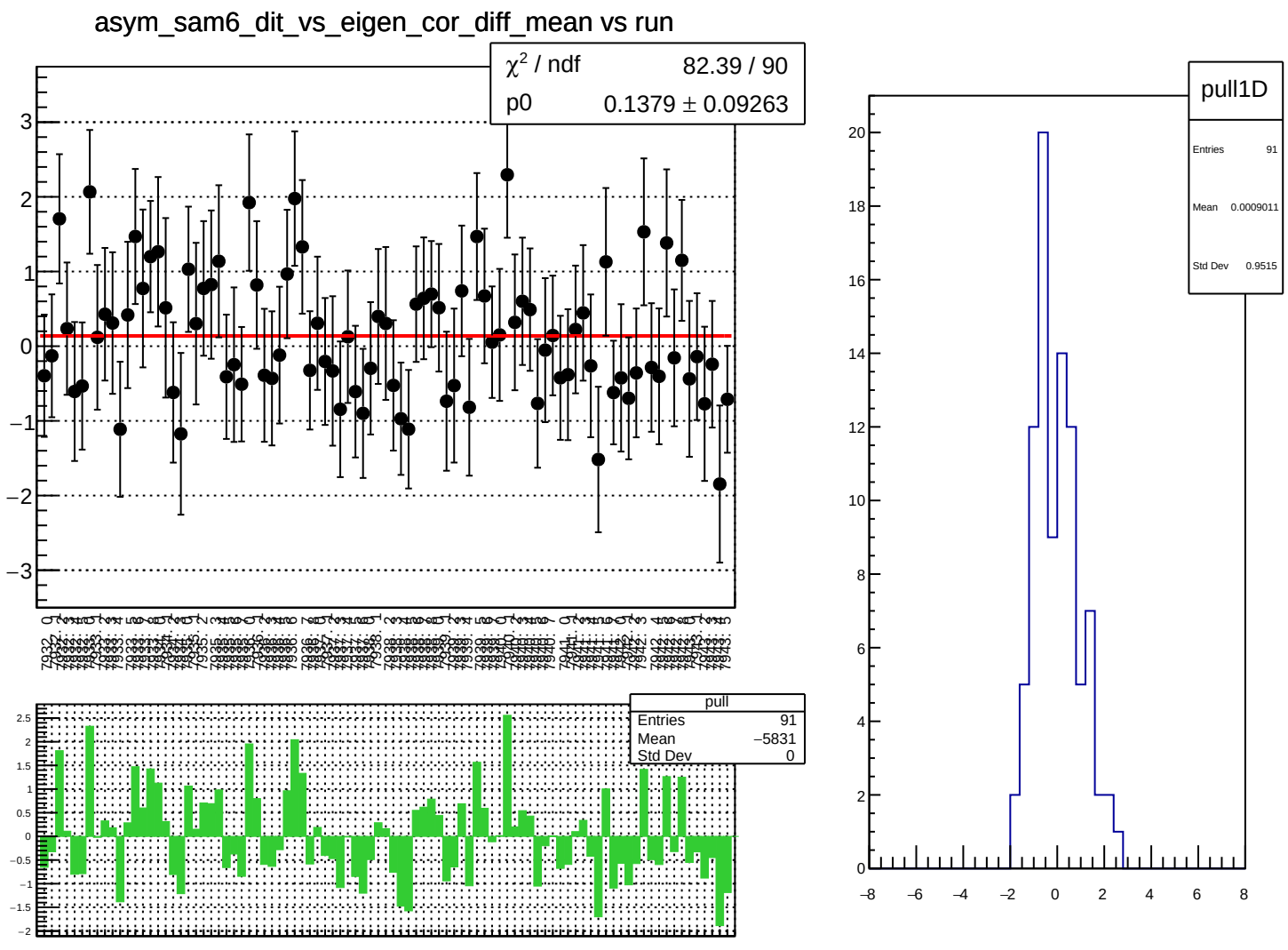

asym_sam6_rms vs run
χ² / ndf 9420 / 90
p0 2181 ± 1.654
2600
2500
2400
2300
2200
2100
2000
1900
1800

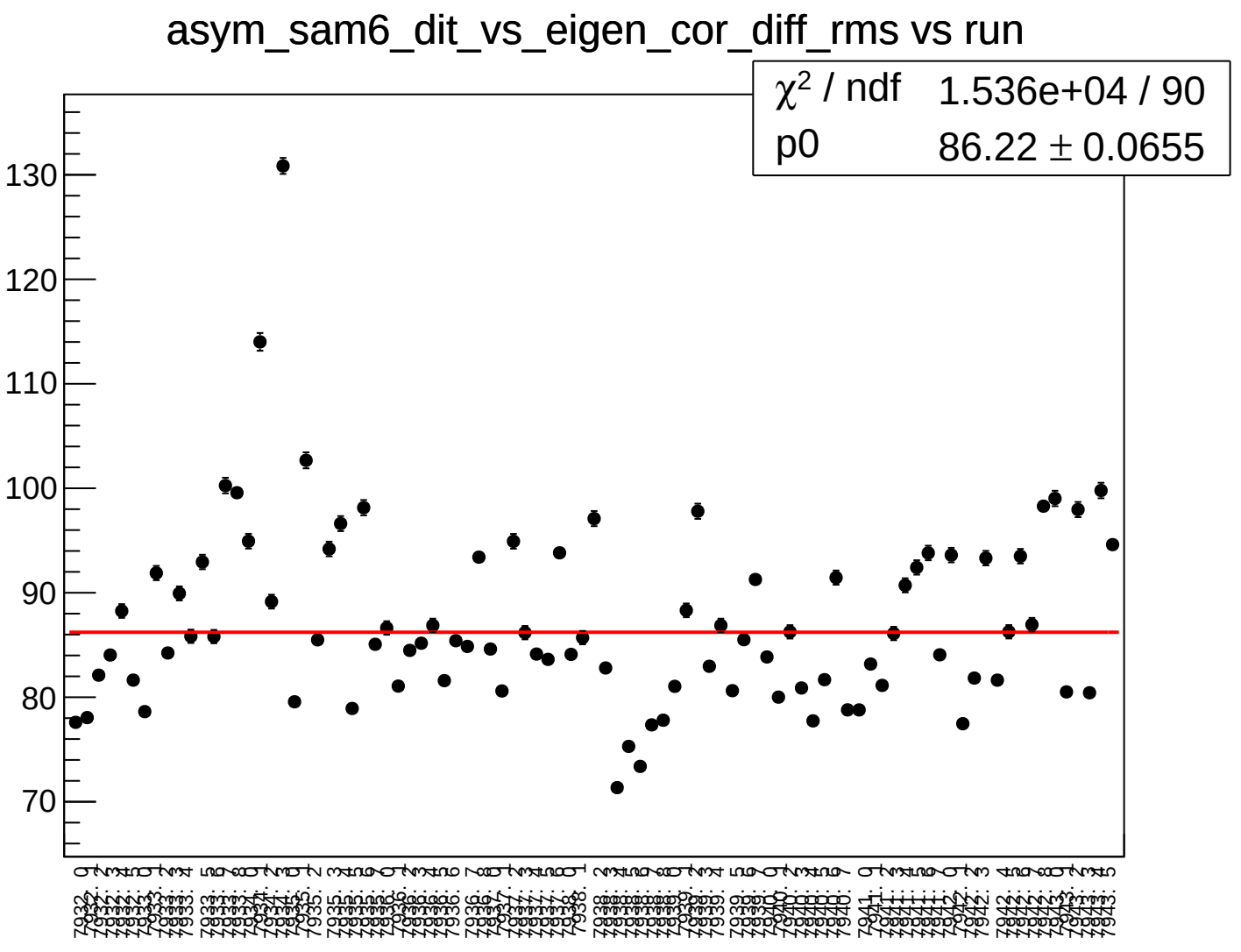

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 90.23 / 90
p0 −5.13e−14 ± 4.631e−13
0.006
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 64.31
Std Dev 0
pull1D
Entries 91
Mean 0.1827
Std Dev 0.9789
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

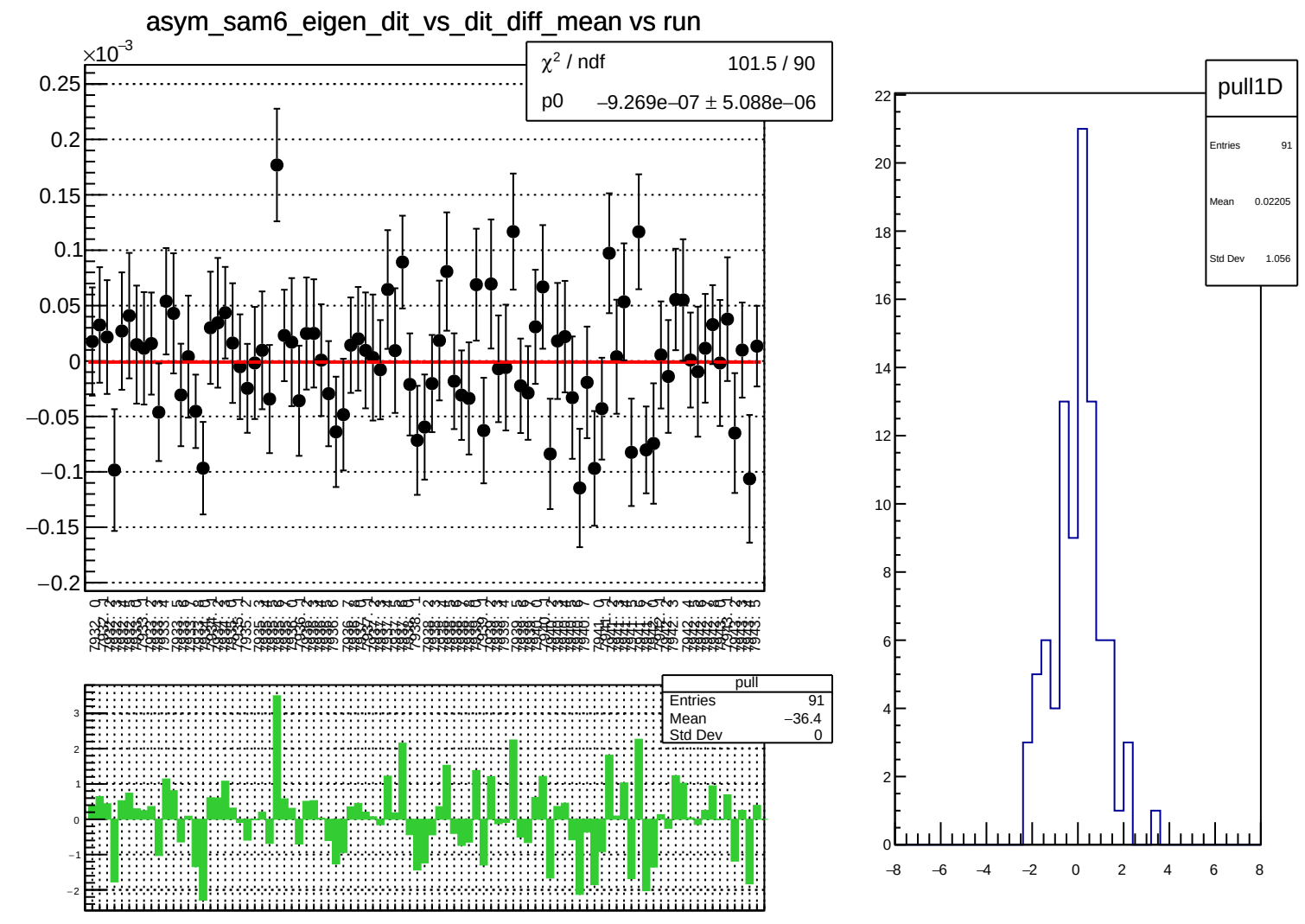

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 7.656e+05 / 90
p0 3.246e−10 ± 3.275e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

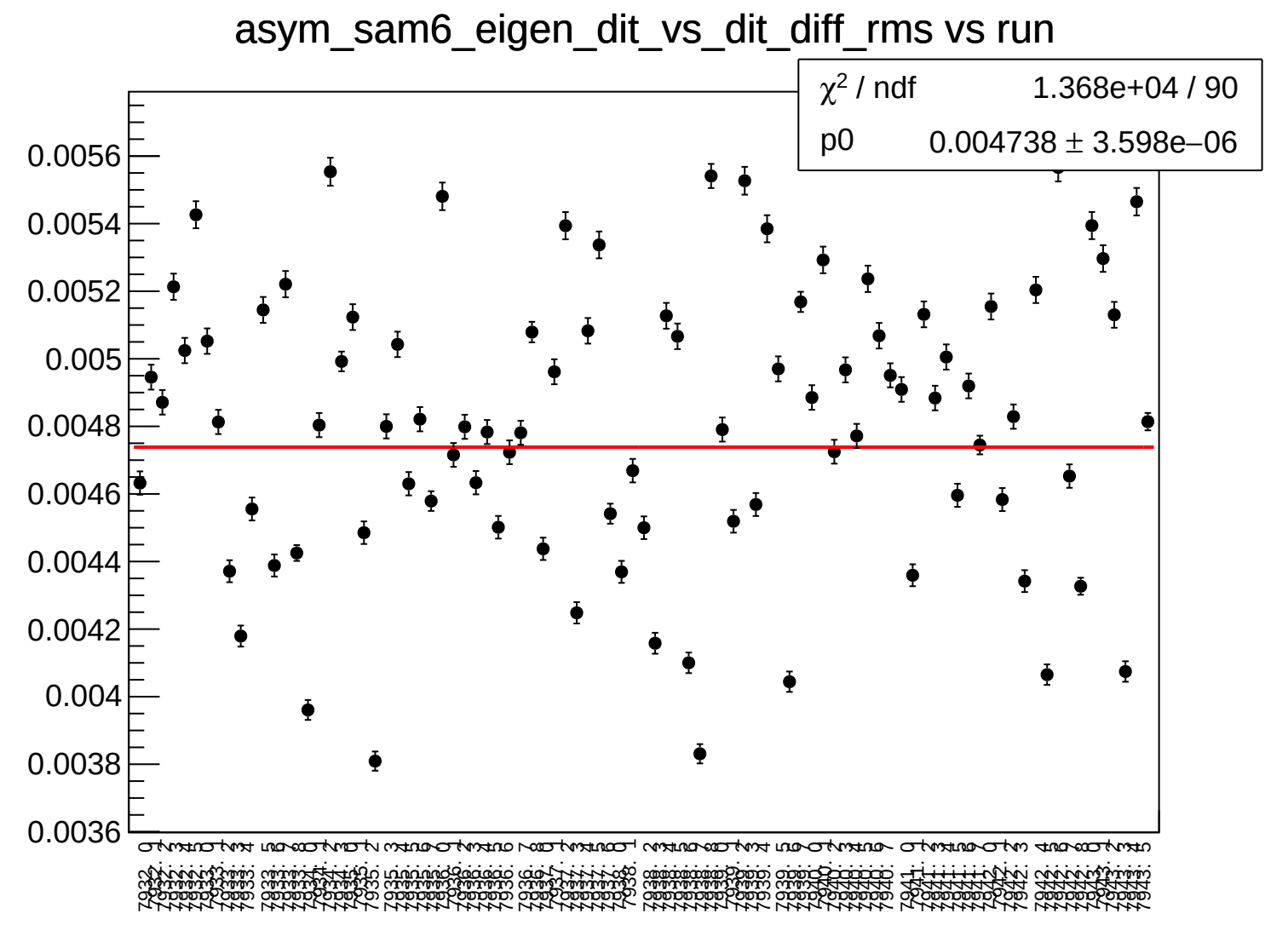

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 82.39 / 90
p0 0.1379 ± 0.09263
pull
Entries 91
Mean −5831
Std Dev 0
pull1D
Entries 91
Mean 0.0009011
Std Dev 0.9515

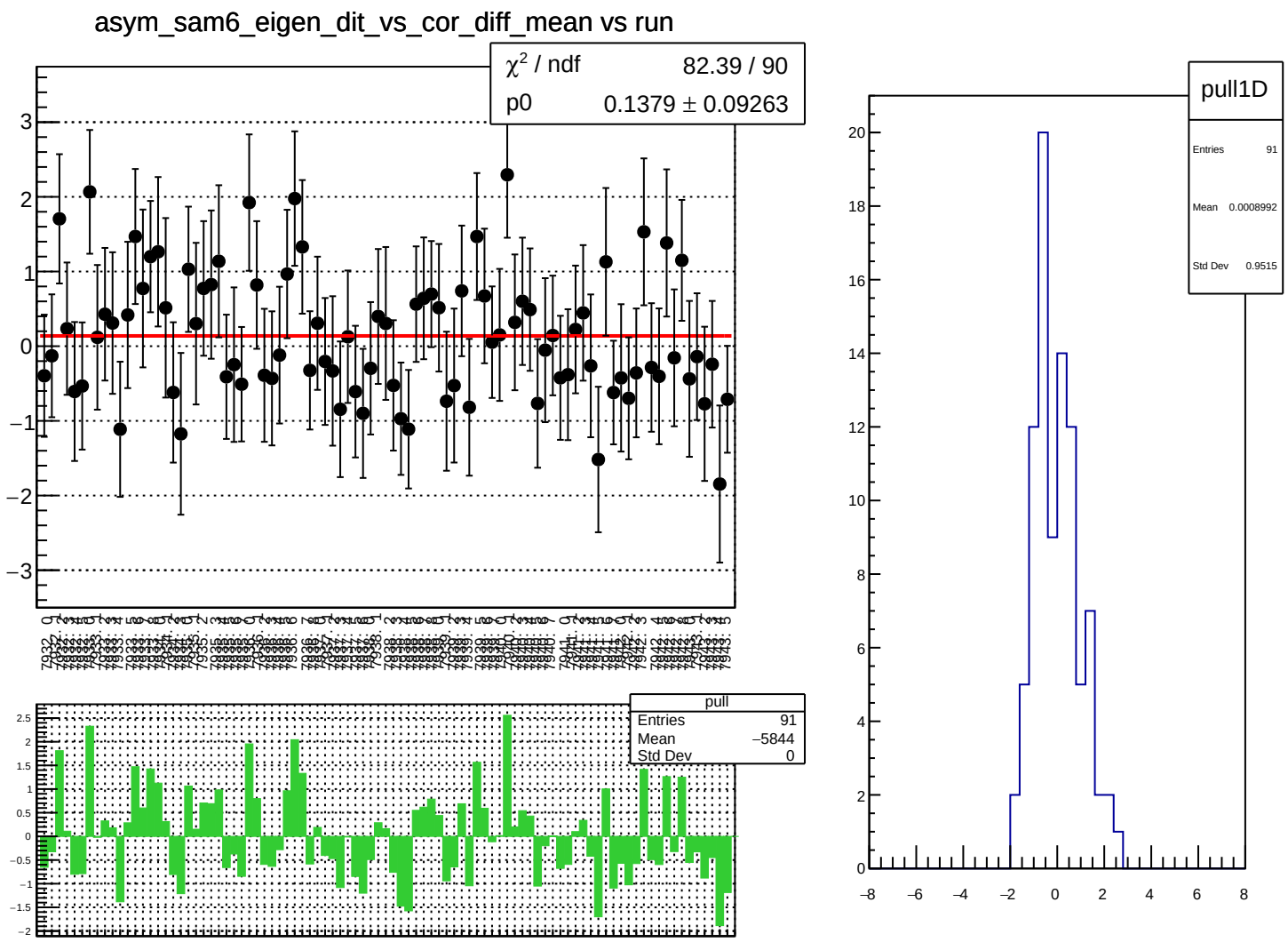

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.536e+04 / 90
p0 86.22 ± 0.0655
130
120
110
100
90
80
70

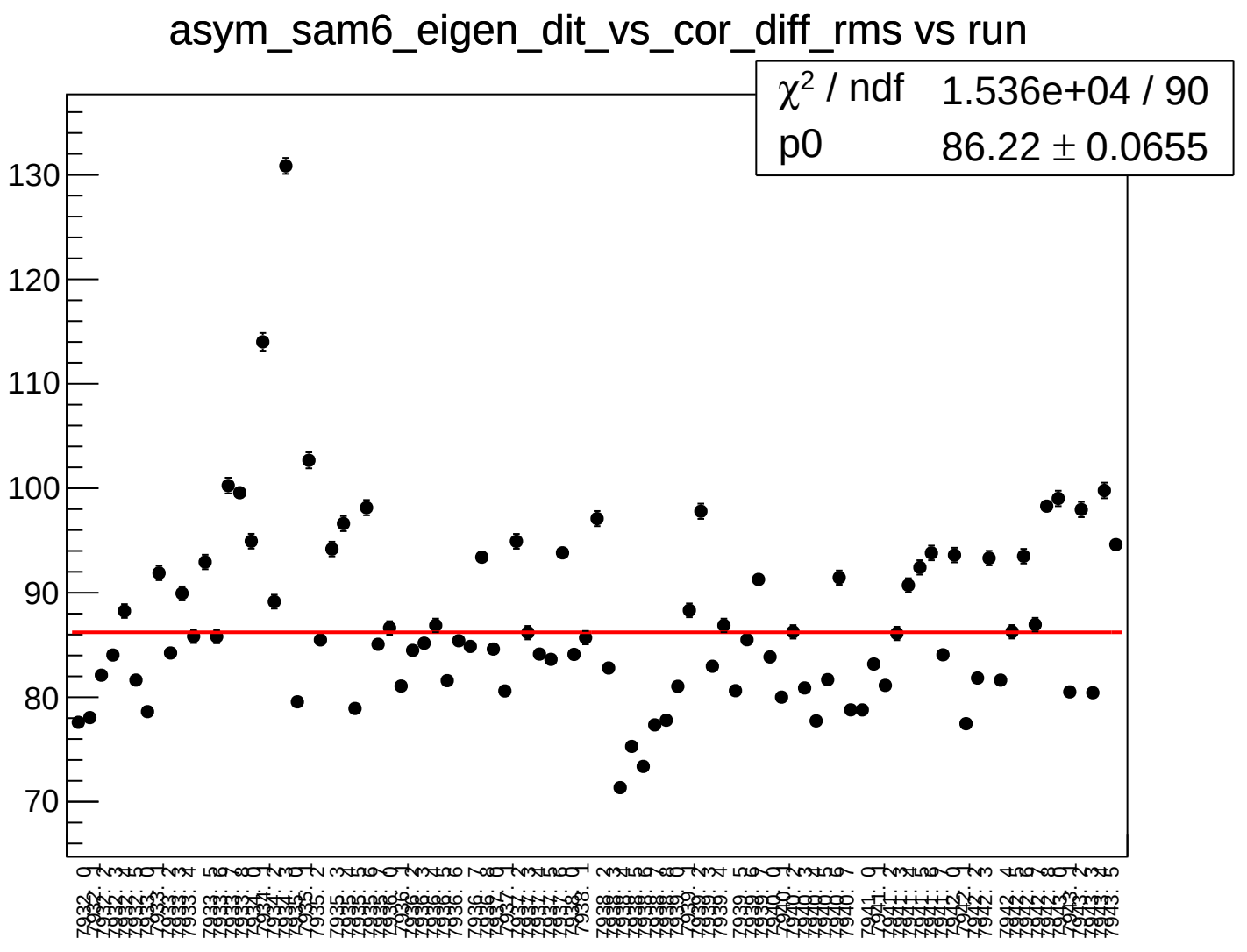

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.39 / 90
p0 0.1379 ± 0.09263
pull
Entries 91
Mean −5831
Std Dev 0
pull1D
Entries 91
Mean 0.0009011
Std Dev 0.9515

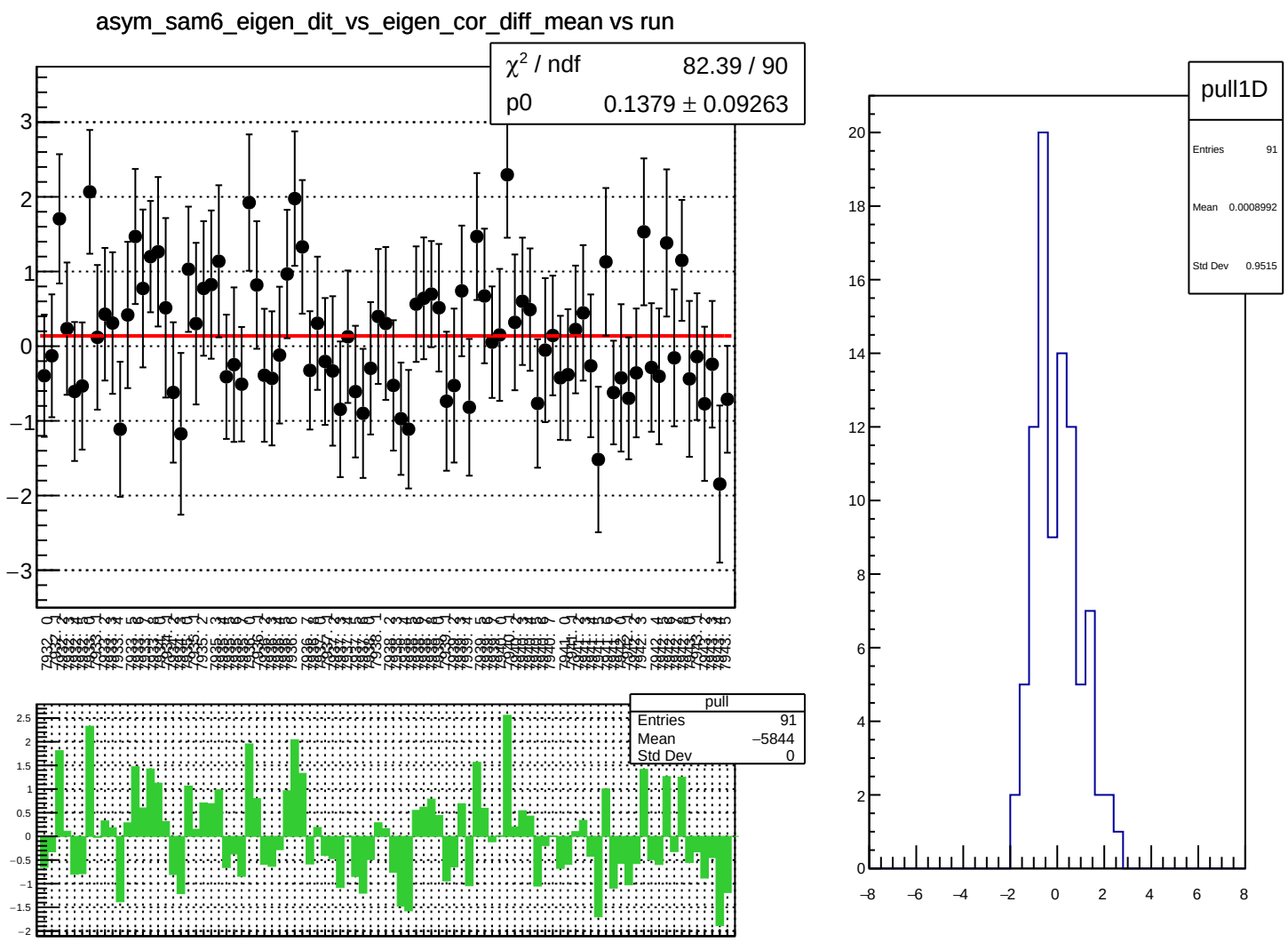

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.536e+04 / 90
p0 86.22 ± 0.0655
130
120
110
100
90
80
70

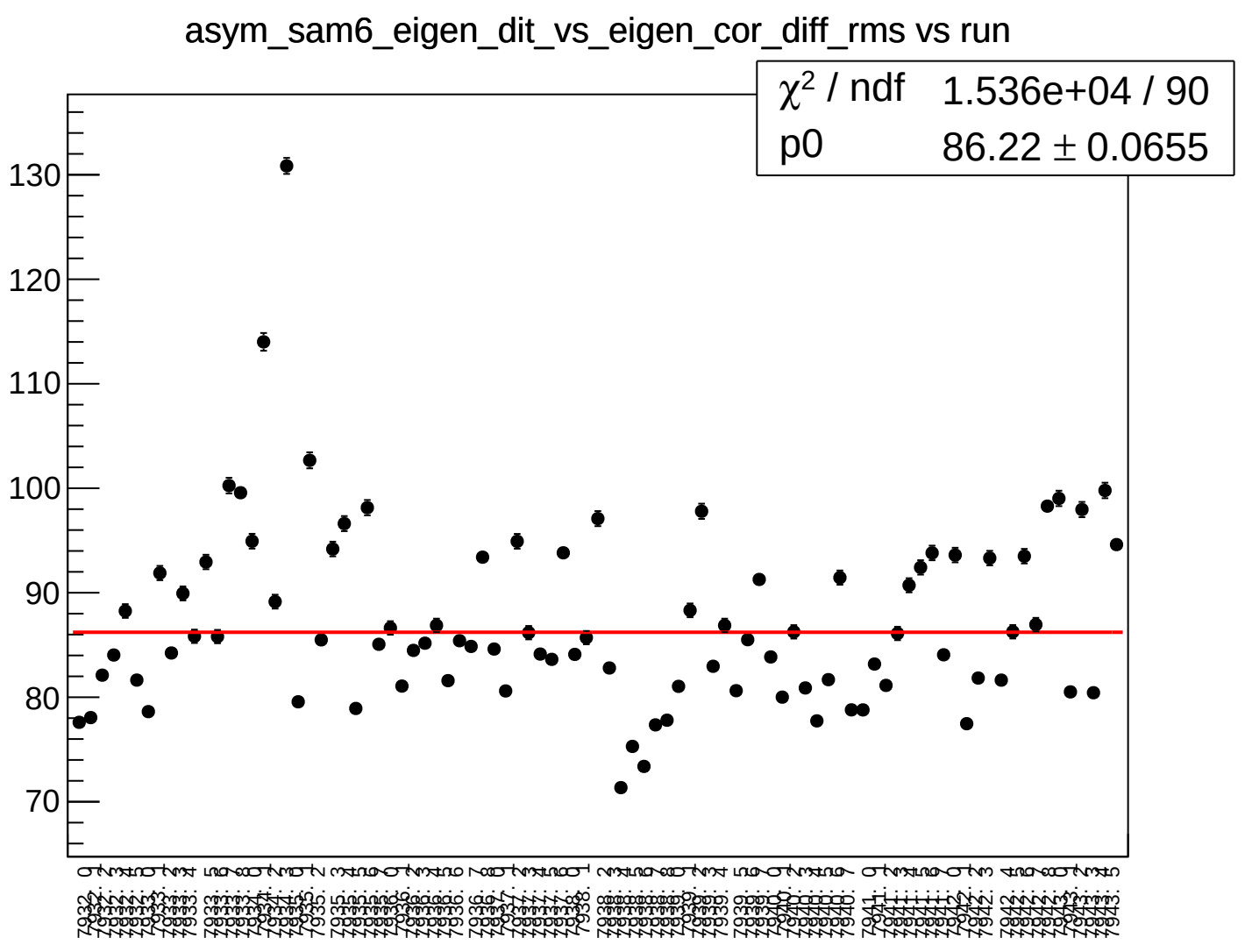

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 90
p0 −9.269e−07 ± 5.088e−06
pull
Entries 91
Mean −36.4
Std Dev 0
pull1D
Entries 91
Mean 0.02205
Std Dev 1.056

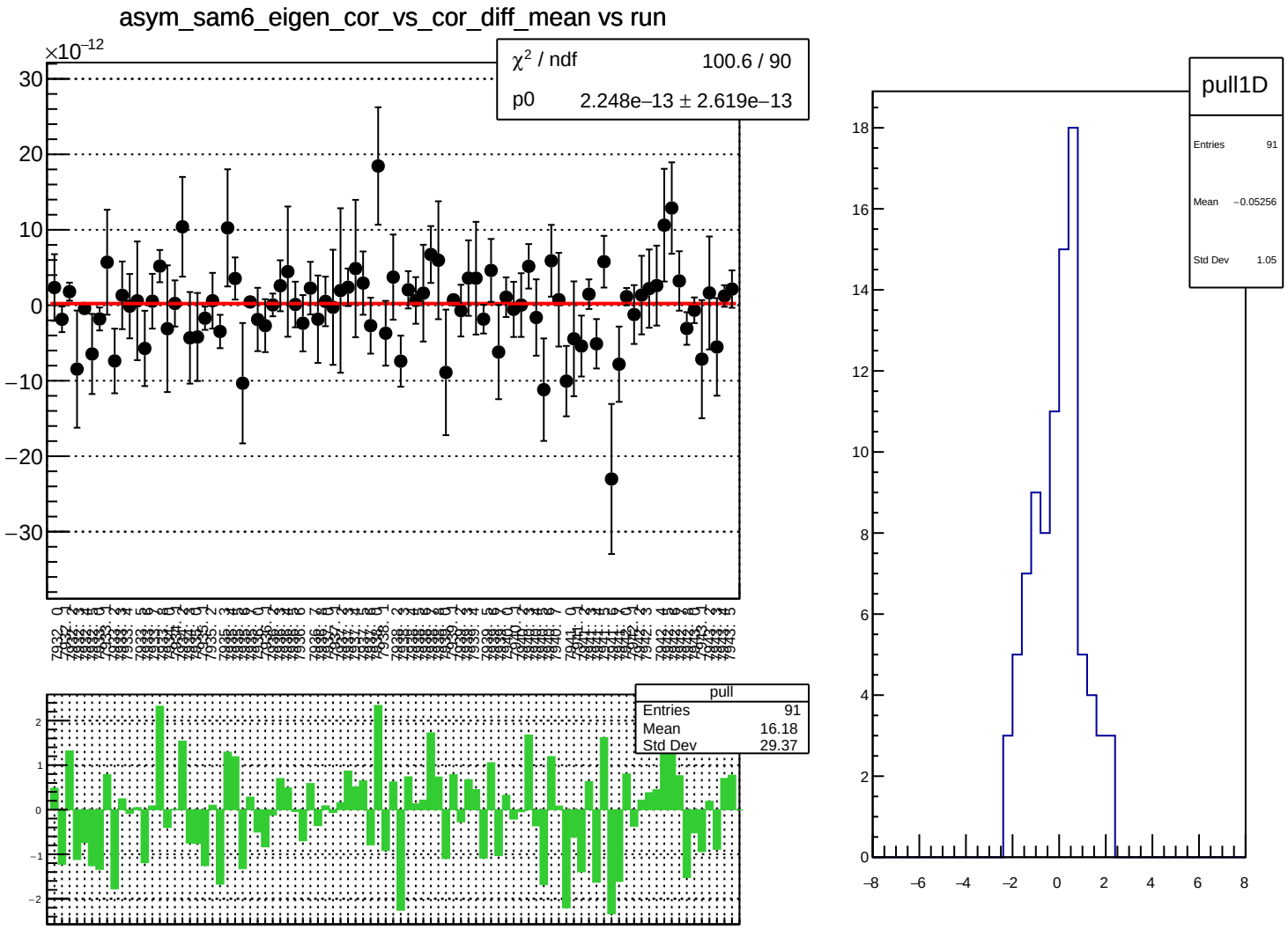

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.368e+04 / 90
p0 0.004738 ± 3.598e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

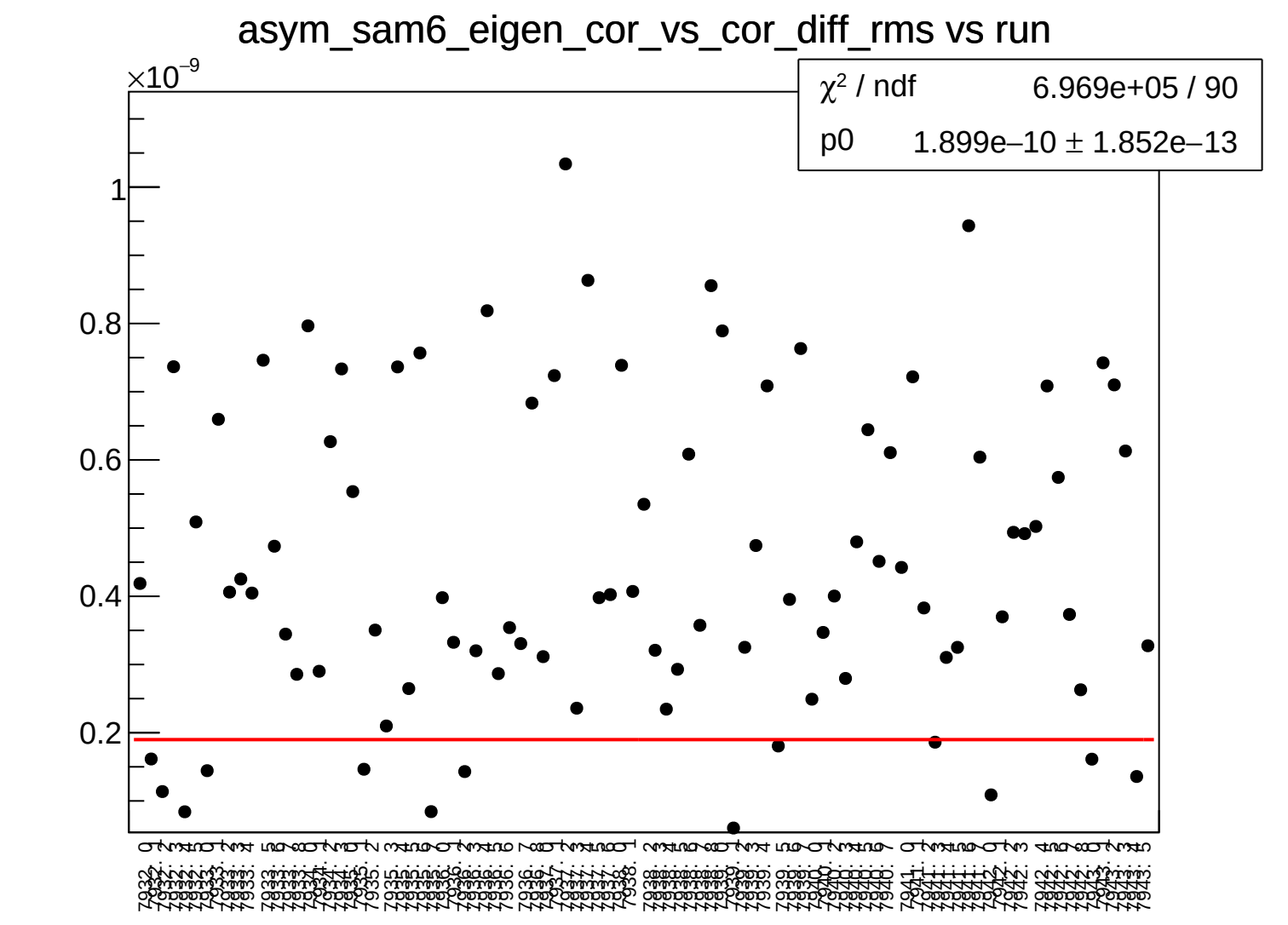

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.39 / 90
p0 0.1379 ± 0.09263
pull
Entries 91
Mean −5844
Std Dev 0
pull1D
Entries 91
Mean 0.0008992
Std Dev 0.9515

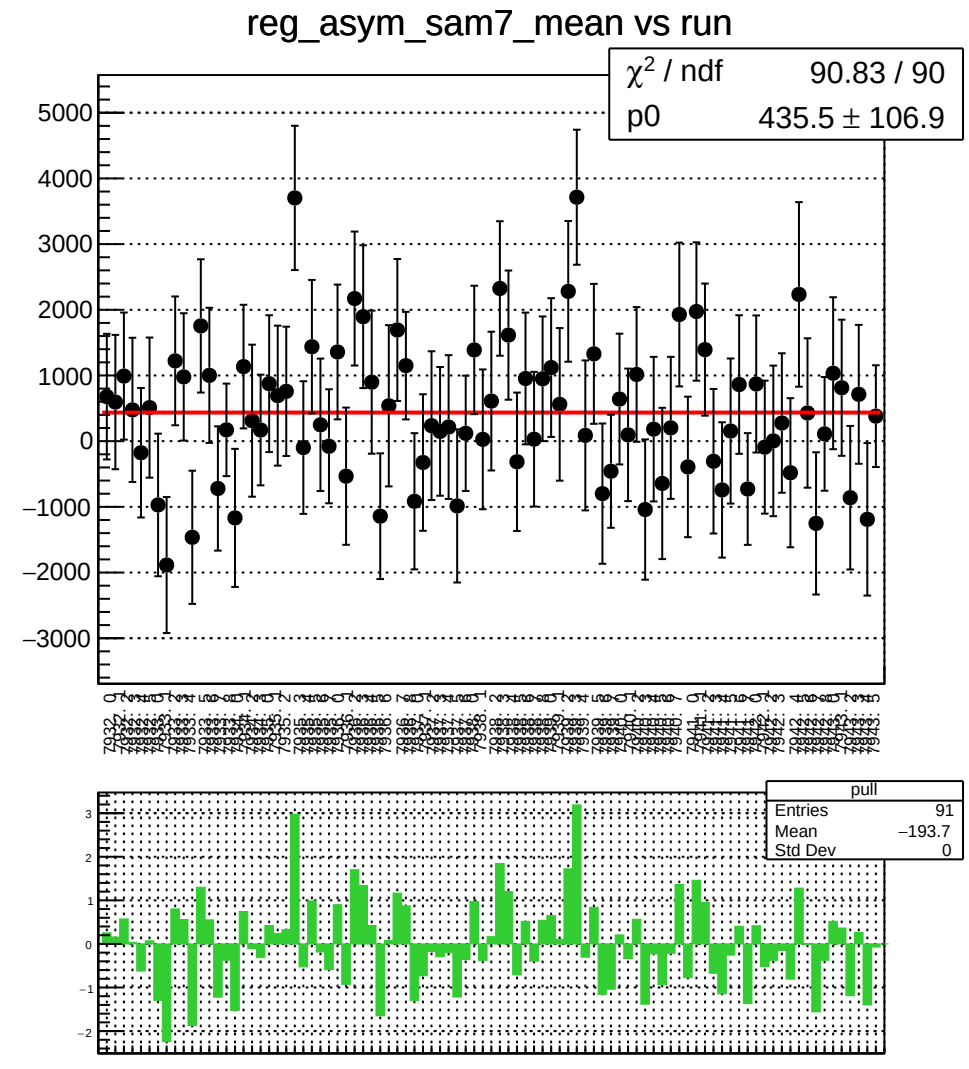

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.536e+04 / 90
p0 86.22 ± 0.0655
130
120
110
100
90
80
70

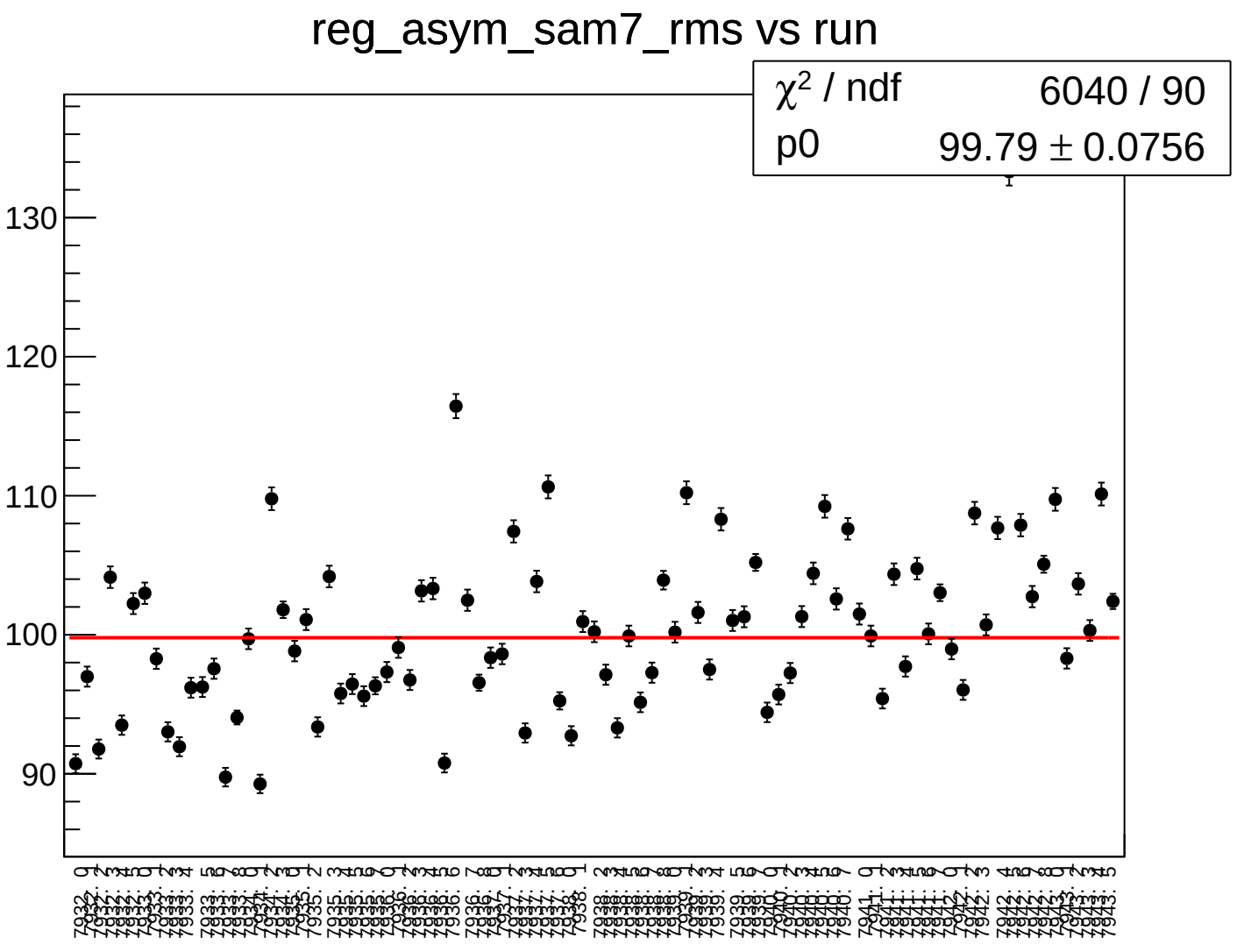

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.39 / 90
p0 0.1379 ± 0.09263
pull
Entries 91
Mean −5844
Std Dev 0
pull1D
Entries 91
Mean 0.0008992
Std Dev 0.9515

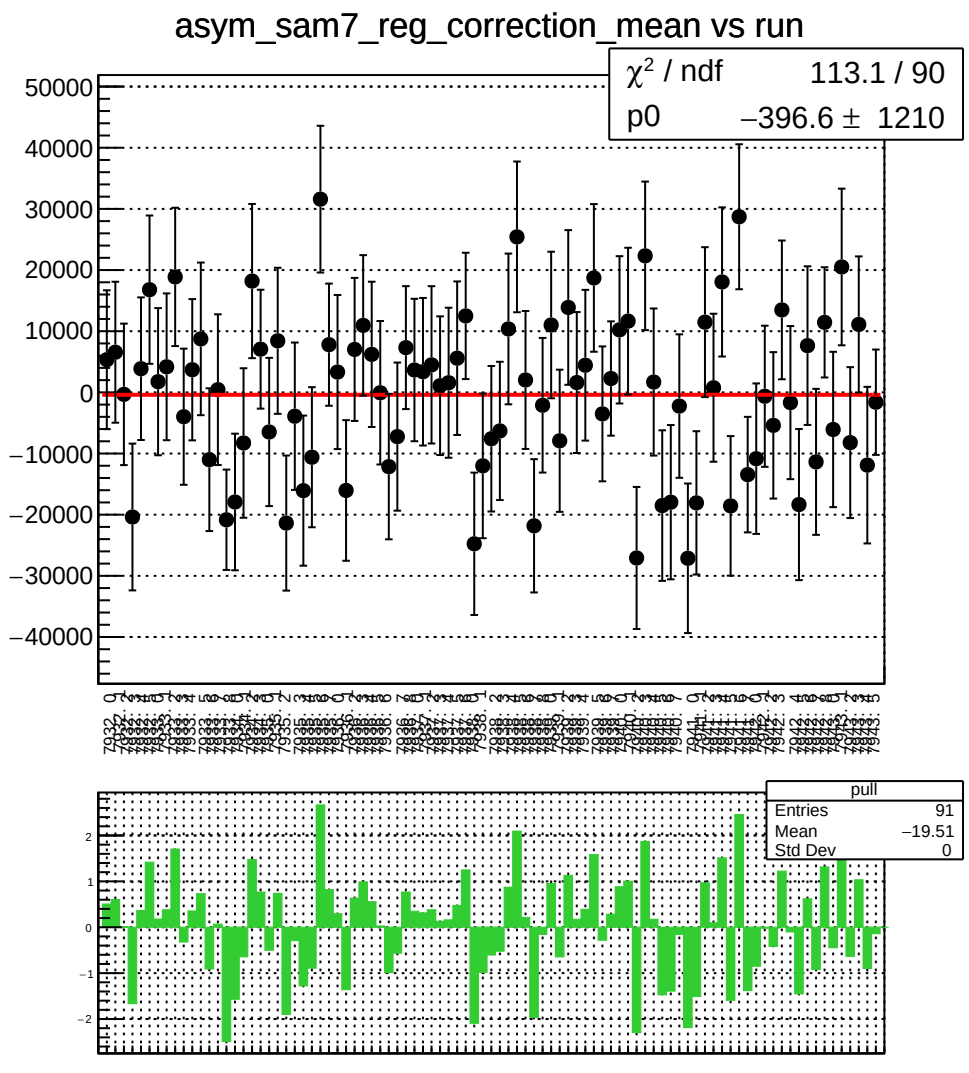

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.536e+04 / 90
p0 86.22 ± 0.0655
130
120
110
100
90
80
70

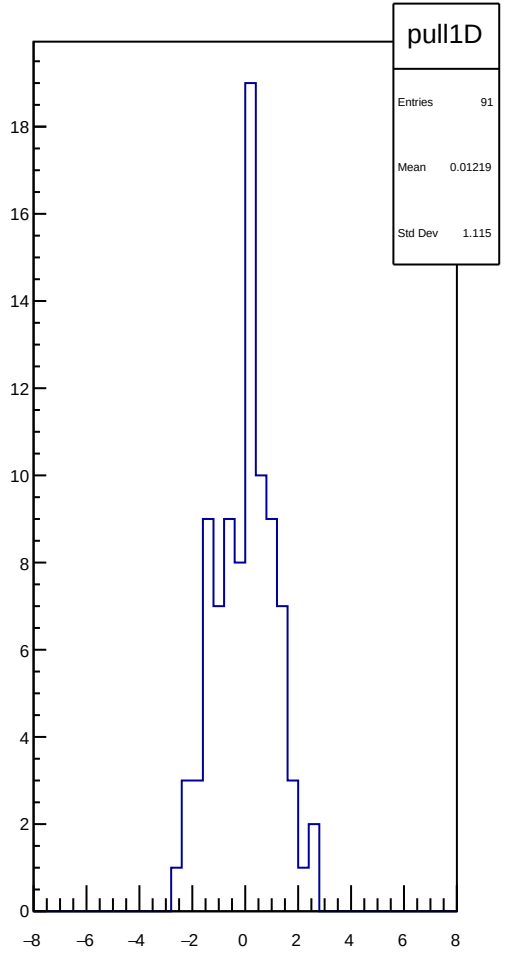

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.6 / 90
p0 2.248e−13 ± 2.619e−13
pull
Entries 91
Mean 16.18
Std Dev 29.37
pull1D
Entries 91
Mean −0.05256
Std Dev 1.05

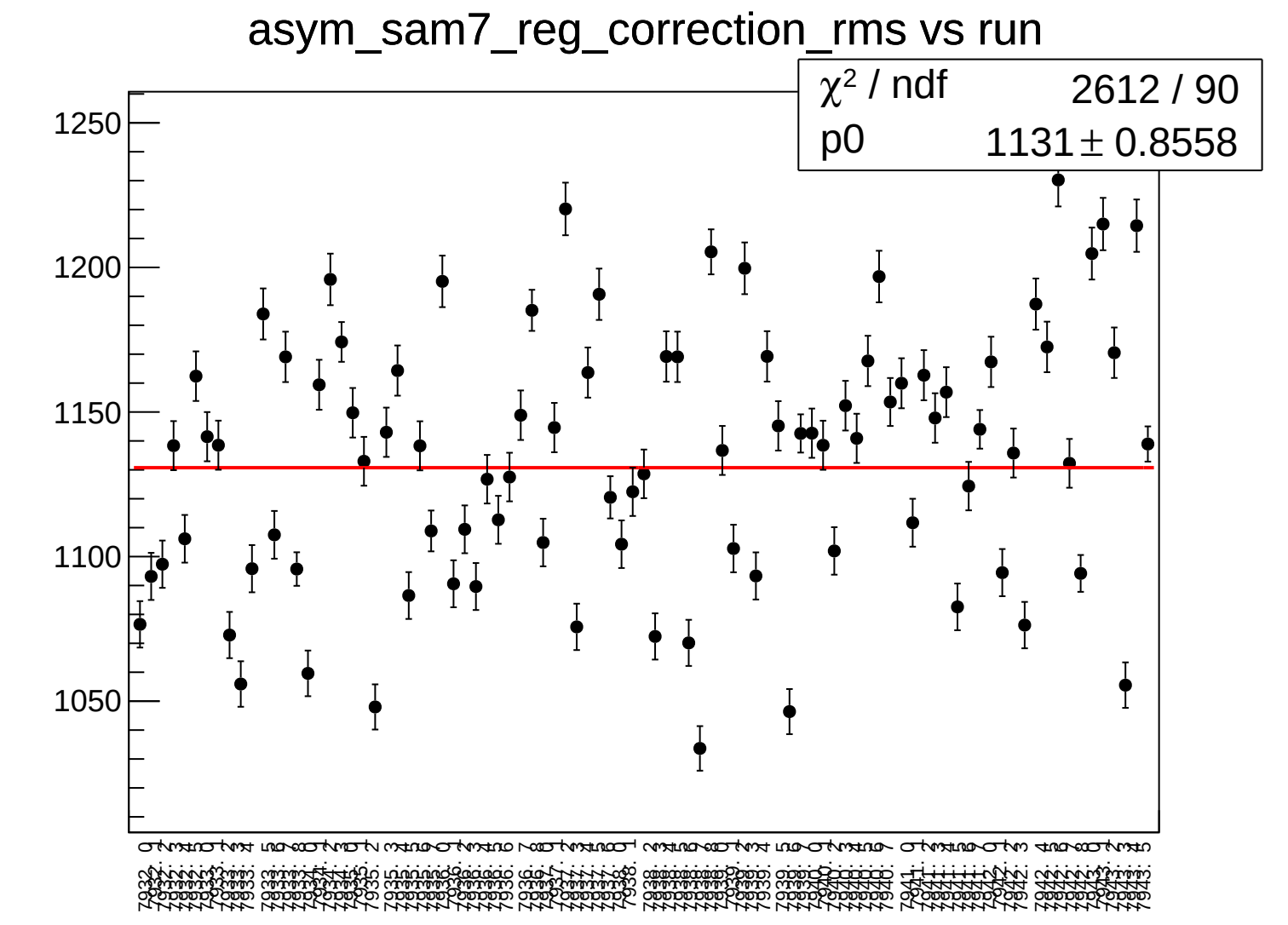

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.969e+05 / 90
p0 1.899e−10 ± 1.852e−13
1
0.8
0.6
0.4
0.2

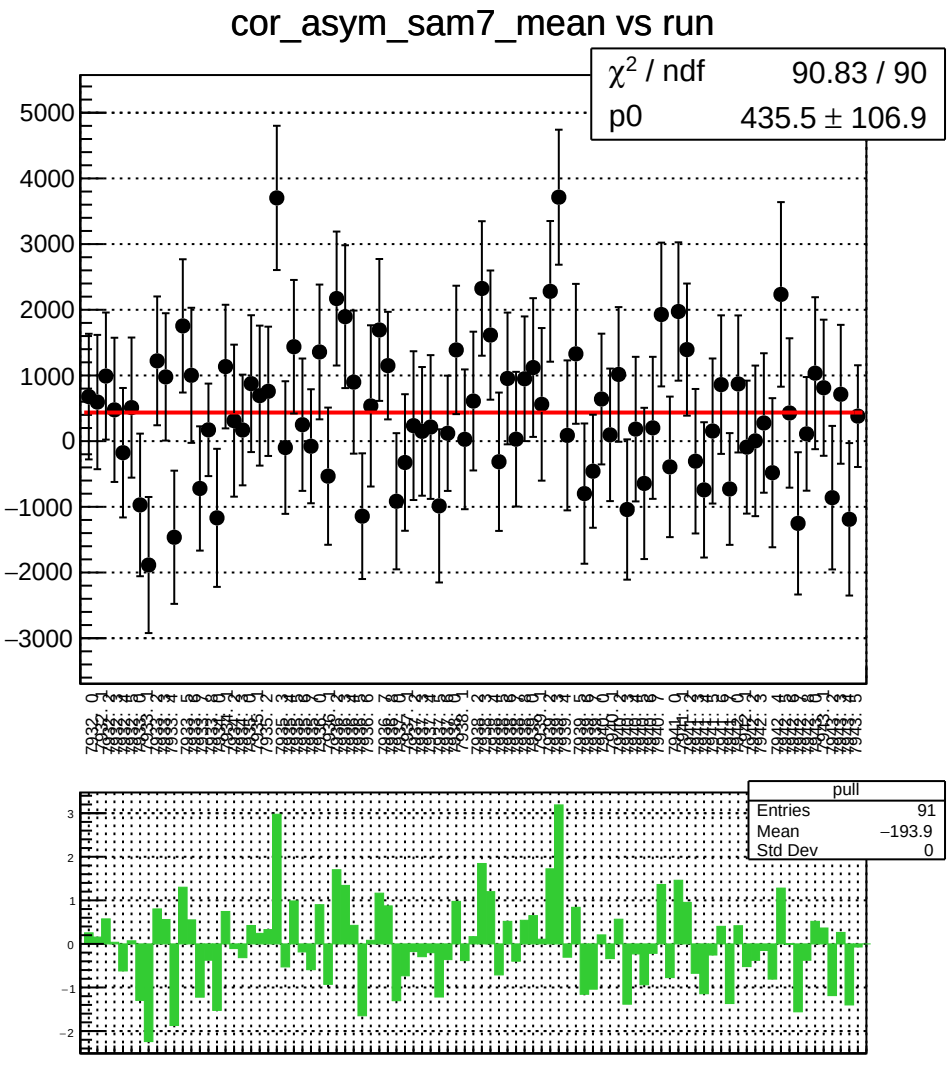

reg_asym_sam7_mean vs run
χ² / ndf 90.83 / 90
p0 435.5 ± 106.9
pull
Entries 91
Mean −193.7
Std Dev 0
pull1D
Entries 91
Mean 0.006042
Std Dev 0.999

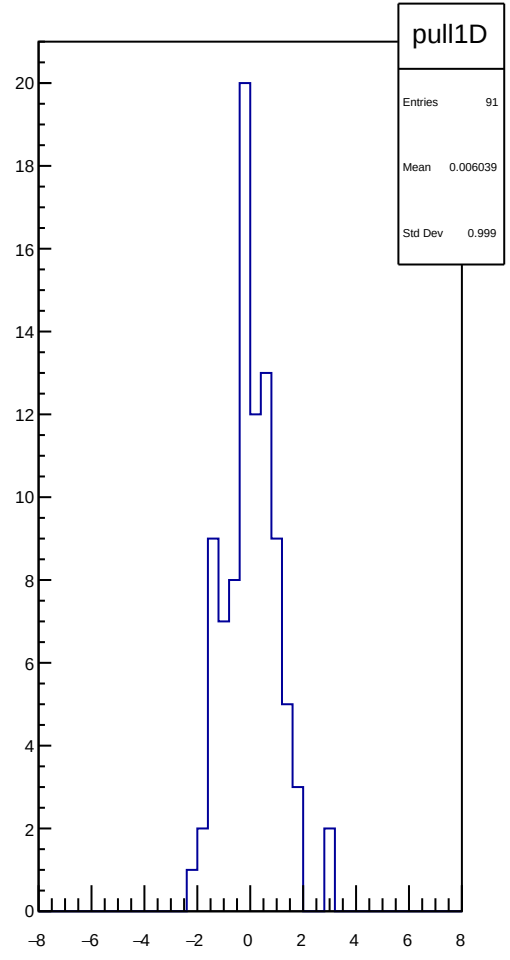

reg_asym_sam7_rms vs run
χ² / ndf 6040 / 90
p0 99.79 ± 0.0756
130
120
110
100
90

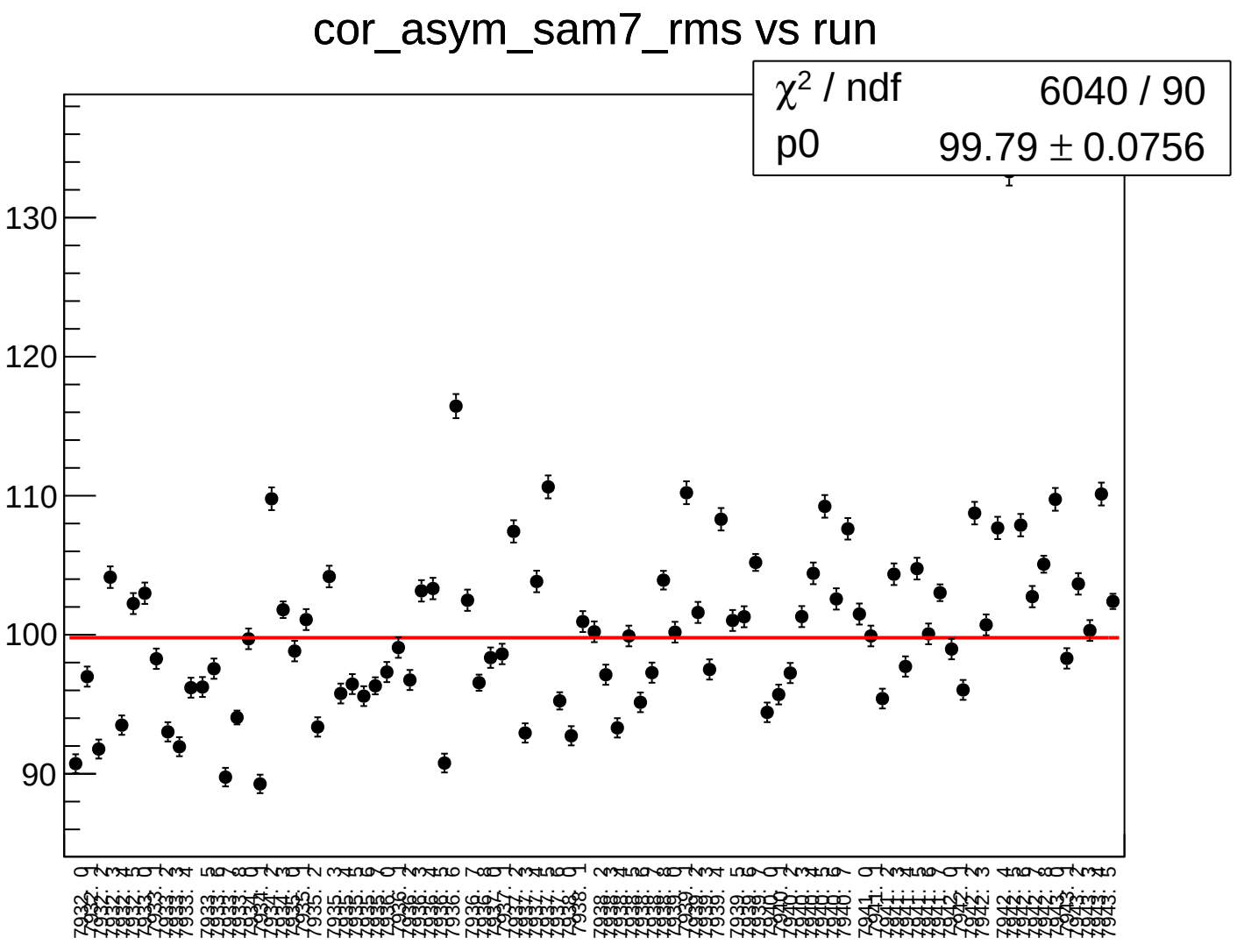

asym_sam7_reg_correction_mean vs run
χ² / ndf 113.1 / 90
p0 −396.6 ± 1210
pull
Entries 91
Mean −19.51
Std Dev 0

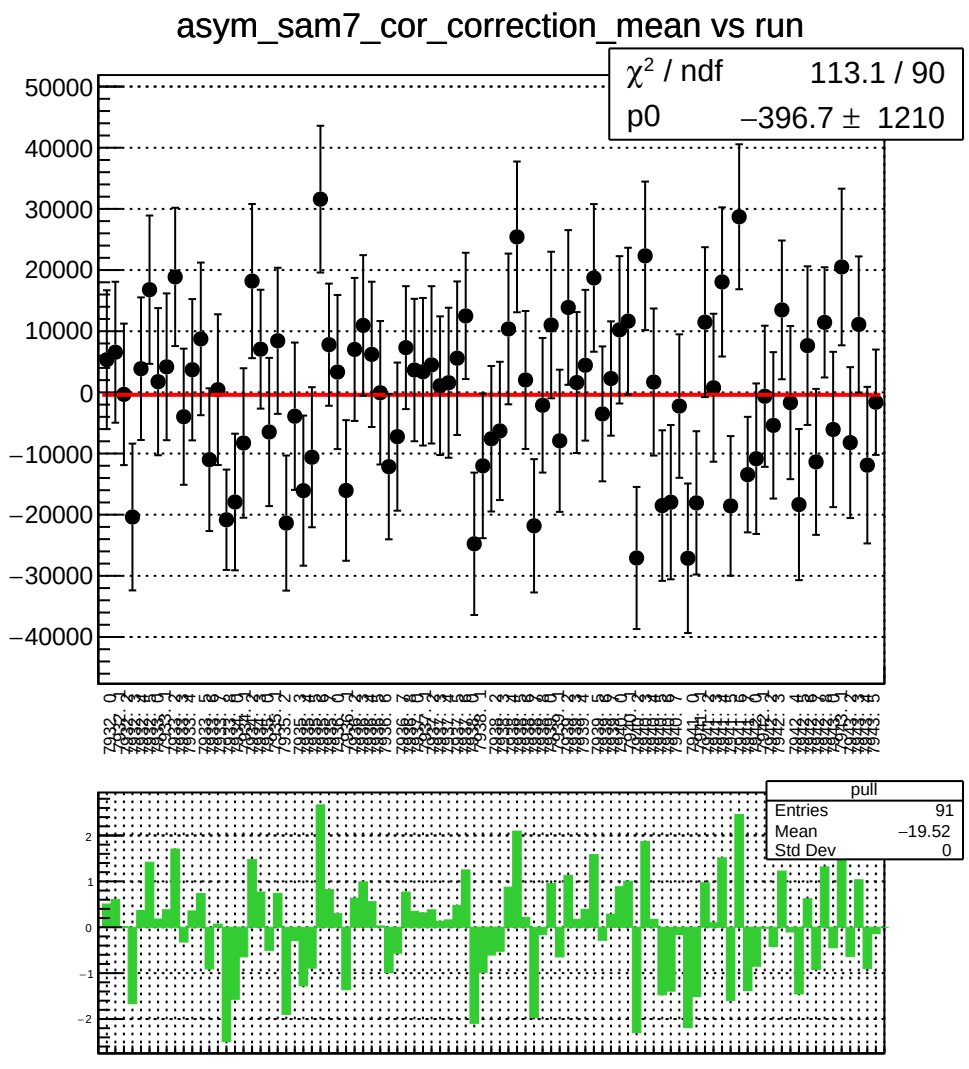

pull1D
Entries 91
Mean 0.01219
Std Dev 1.115

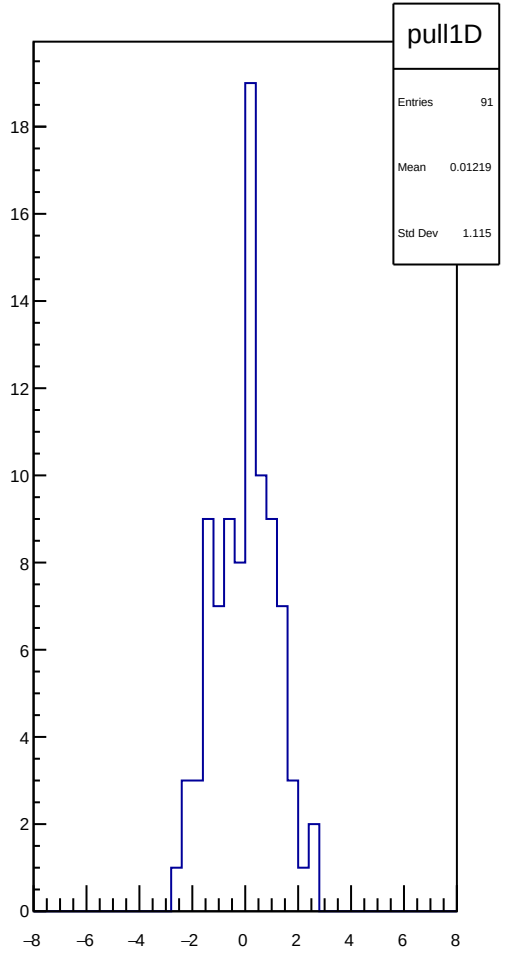

asym_sam7_reg_correction_rms vs run
χ² / ndf 2612 / 90
p0 1131 ± 0.8558
1250
1200
1150
1100
1050

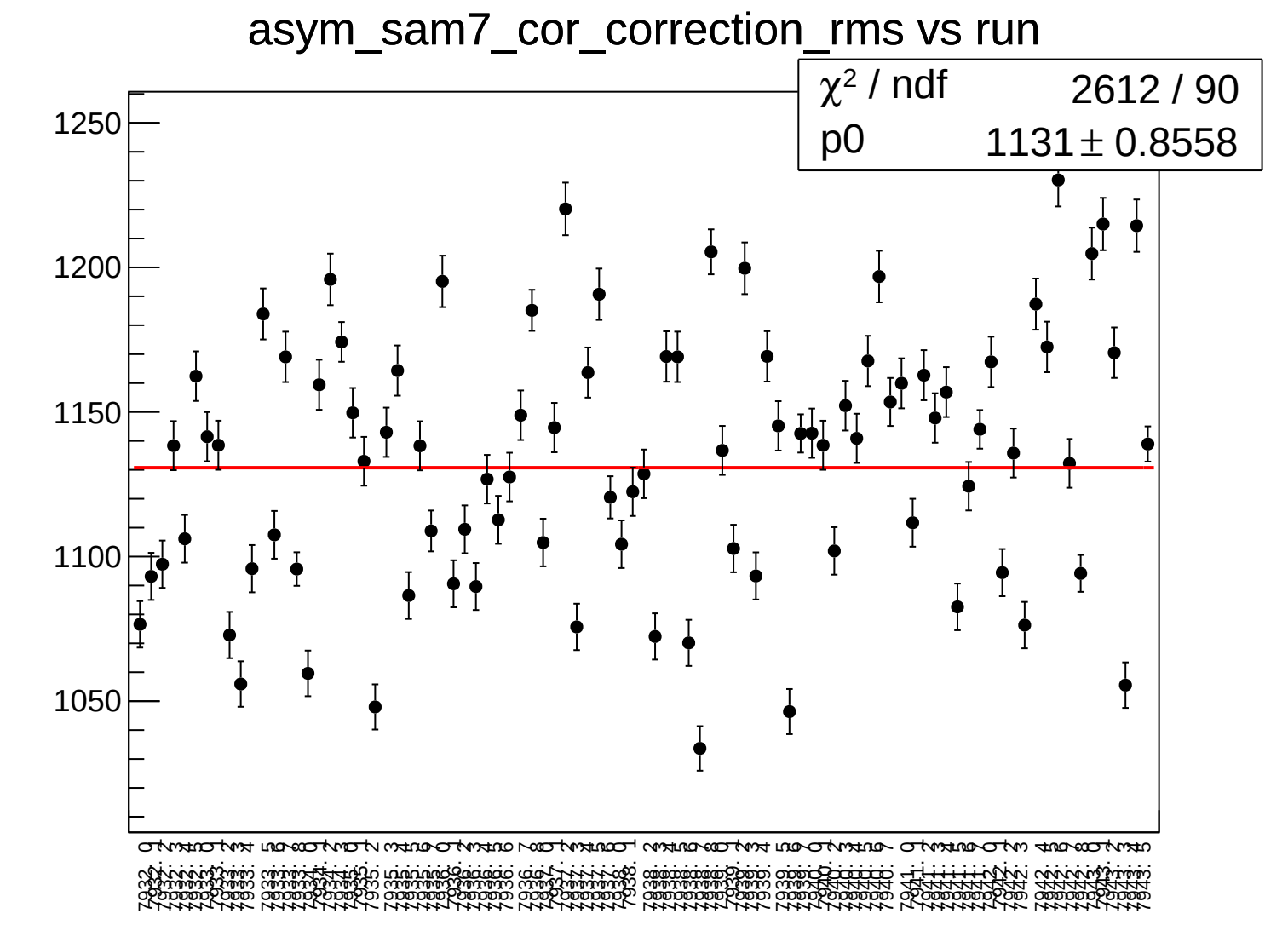

cor_asym_sam7_mean vs run
χ² / ndf 90.83 / 90
p0 435.5 ± 106.9
pull
Entries 91
Mean −193.9
Std Dev 0

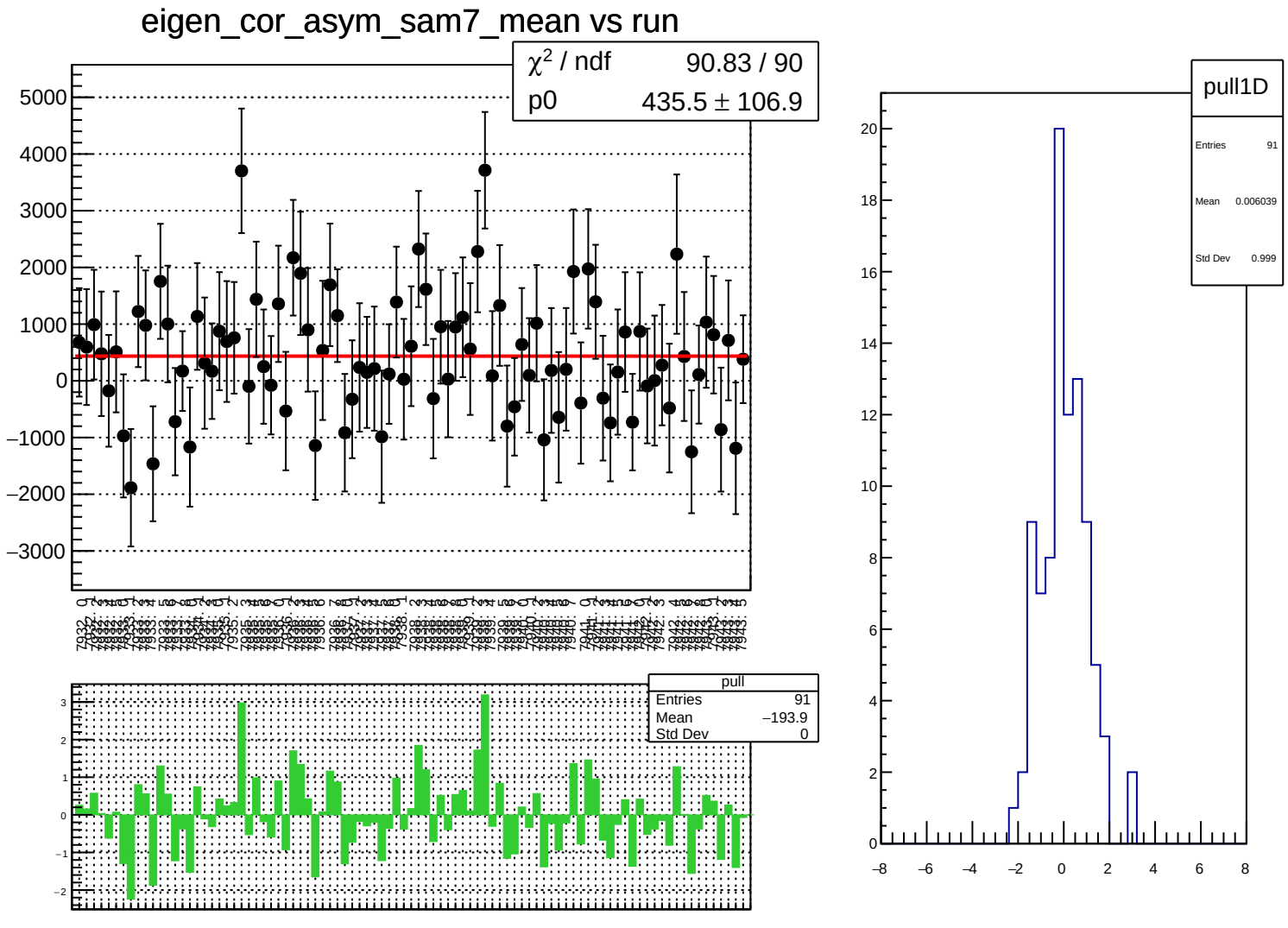

pull1D
Entries 91
Mean 0.006039
Std Dev 0.999

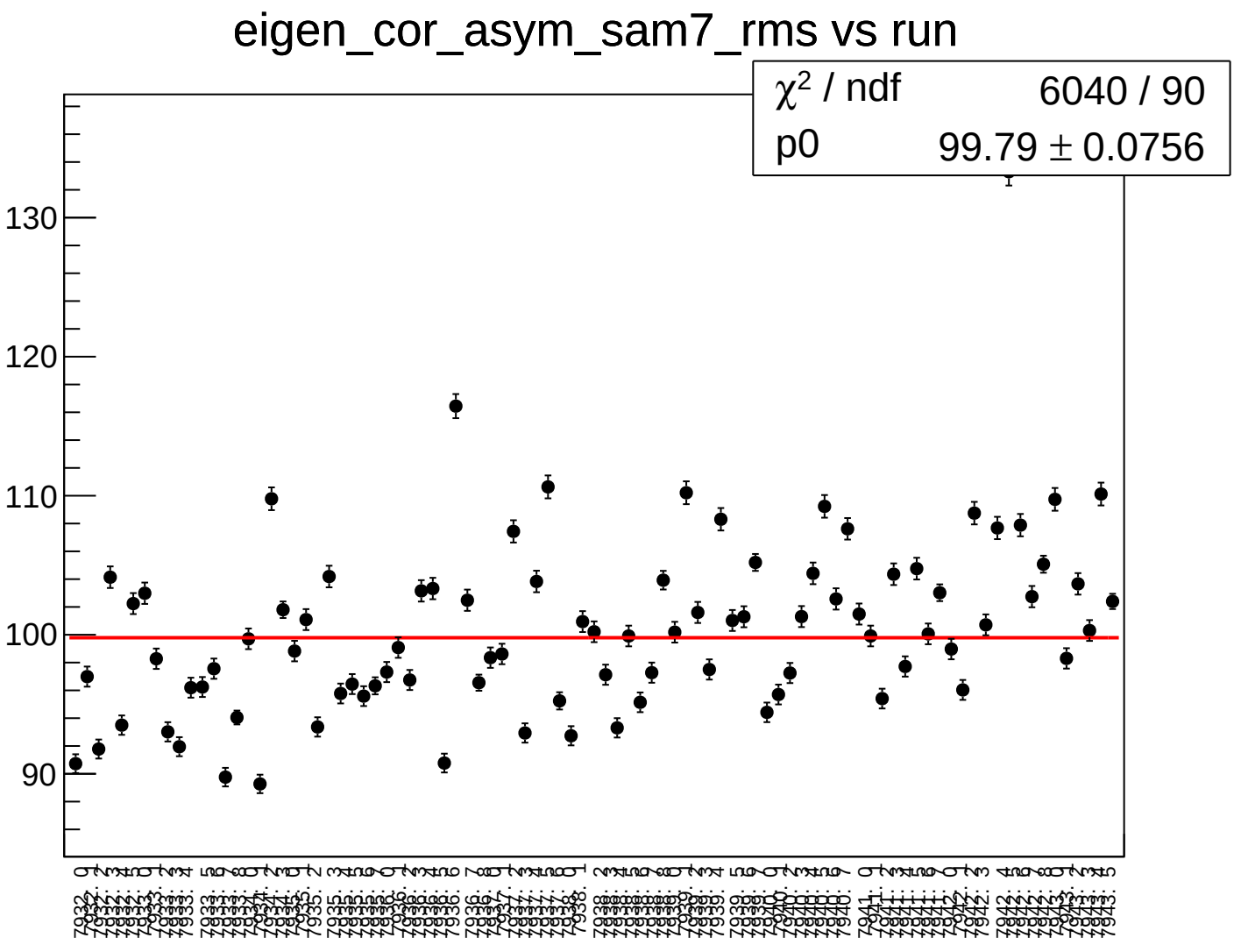

cor_asym_sam7_rms vs run
χ² / ndf 6040 / 90
p0 99.79 ± 0.0756
130
120
110
100
90

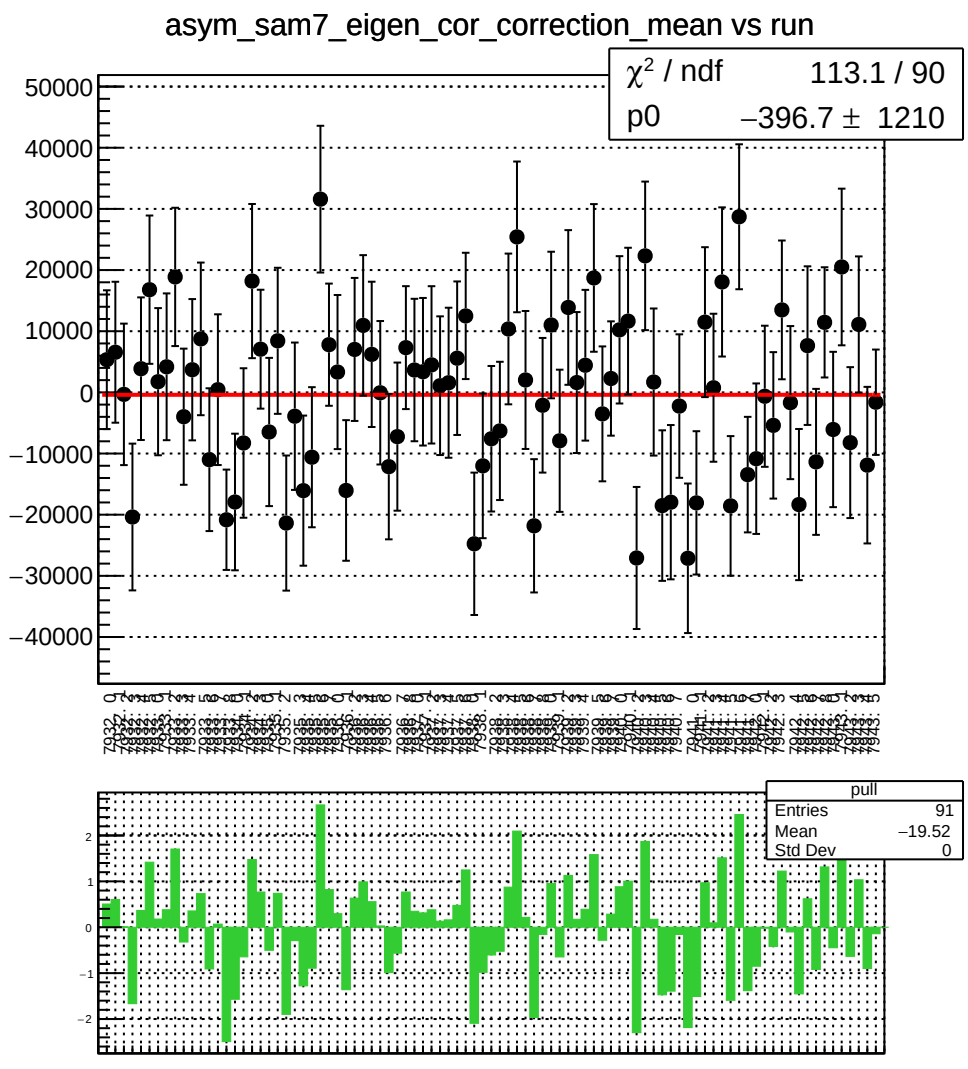

asym_sam7_cor_correction_mean vs run
χ² / ndf 113.1 / 90
p0 −396.7 ± 1210
pull
Entries 91
Mean −19.52
Std Dev 0

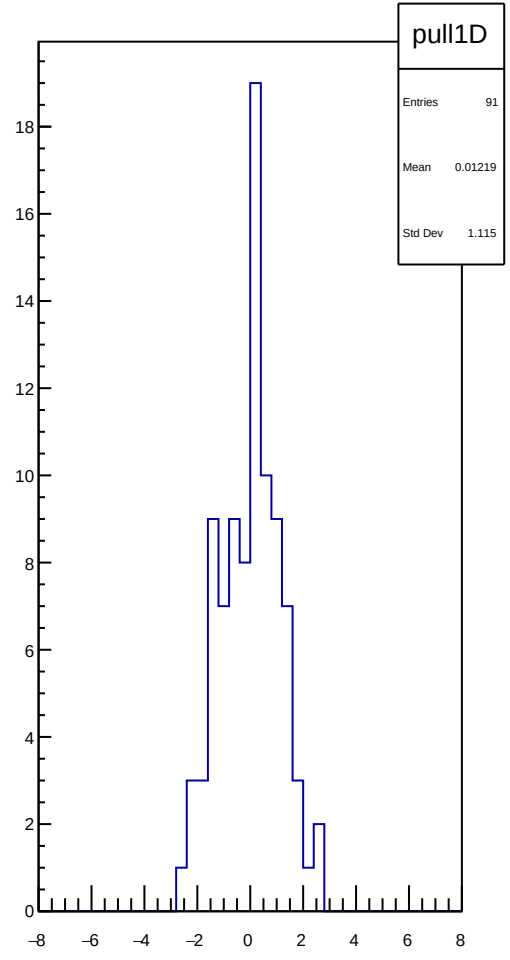

pull1D
Entries 91
Mean 0.01219
Std Dev 1.115

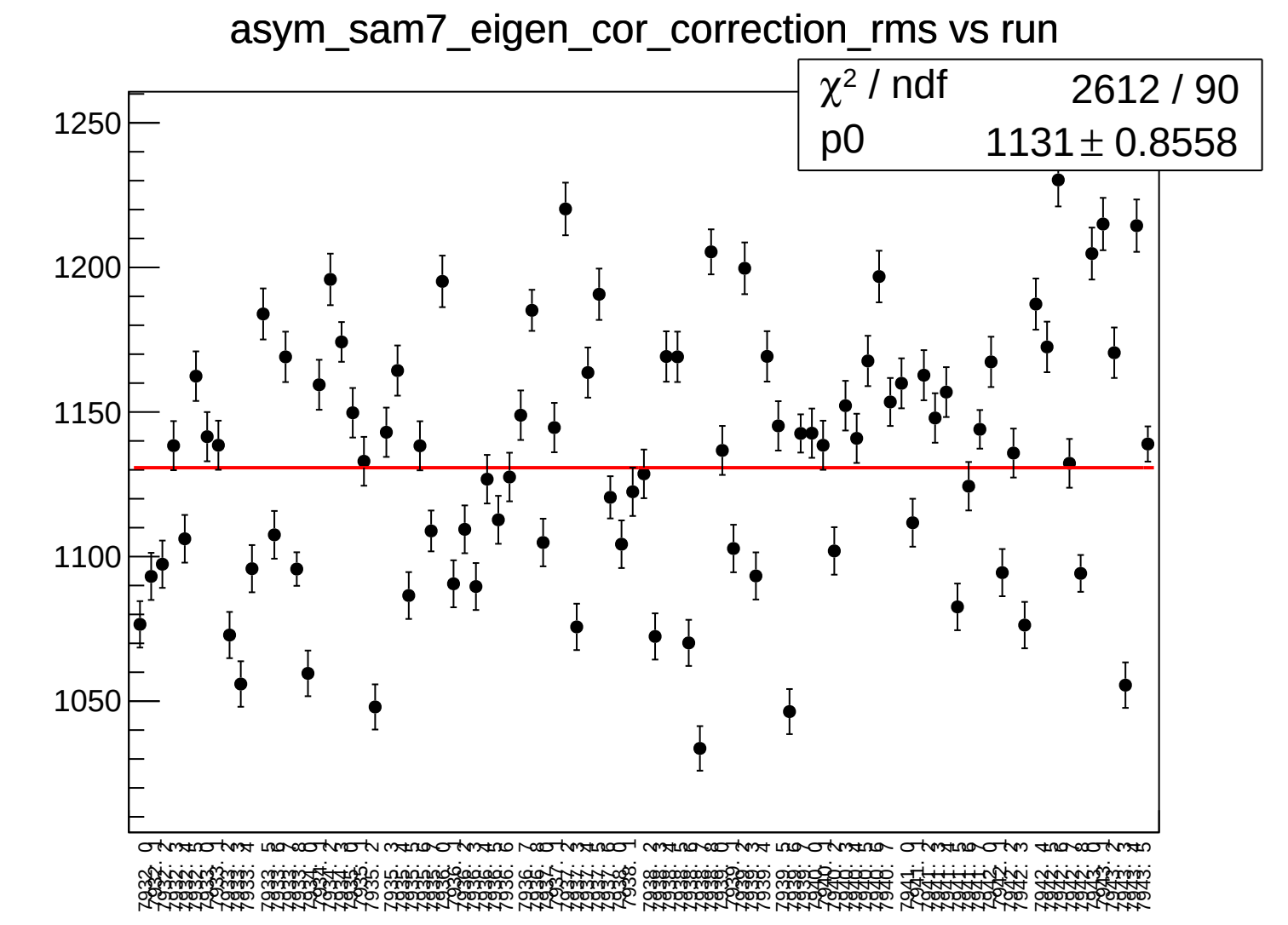

asym_sam7_cor_correction_rms vs run
χ² / ndf 2612 / 90
p0 1131 ± 0.8558
1250
1200
1150
1100
1050

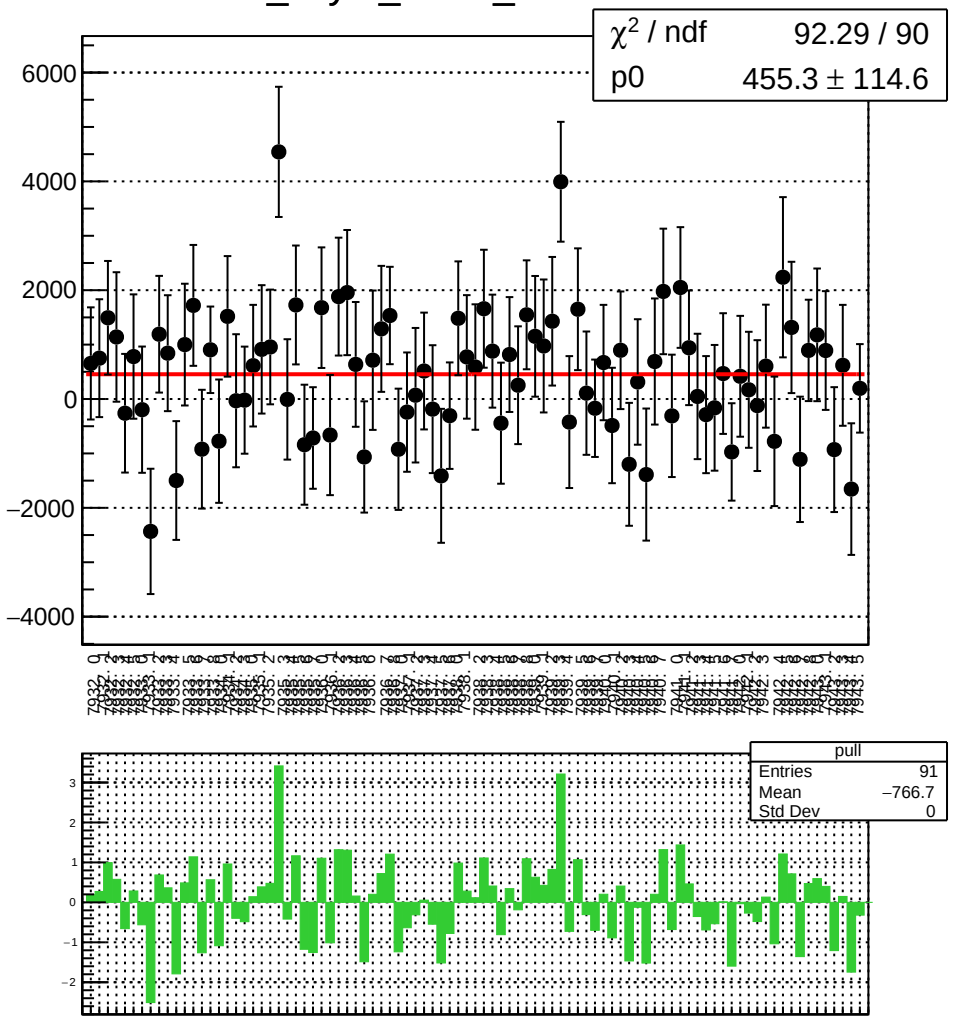

eigen_cor_asym_sam7_mean vs run
χ² / ndf 90.83 / 90
p0 435.5 ± 106.9
pull
Entries 91
Mean −193.9
Std Dev 0
pull1D
Entries 91
Mean 0.006039
Std Dev 0.999

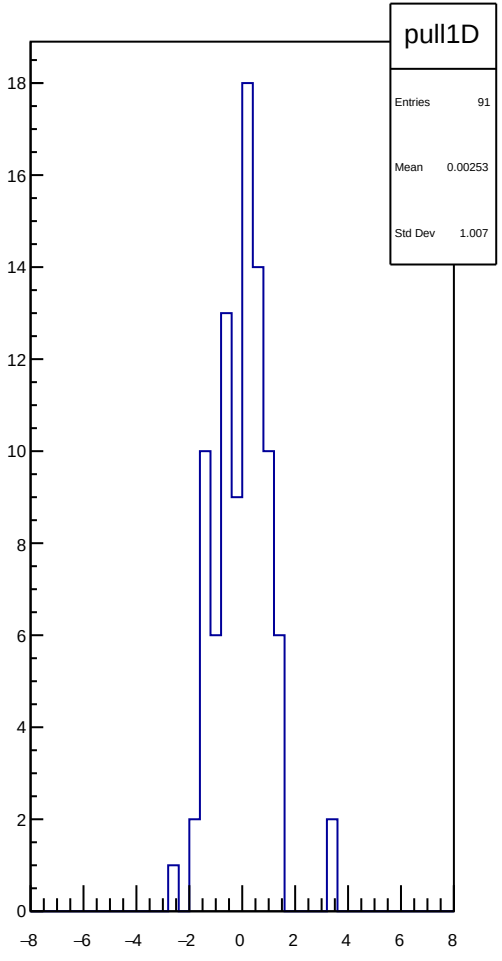

eigen_cor_asym_sam7_rms vs run
χ² / ndf 6040 / 90
p0 99.79 ± 0.0756
130
120
110
100
90

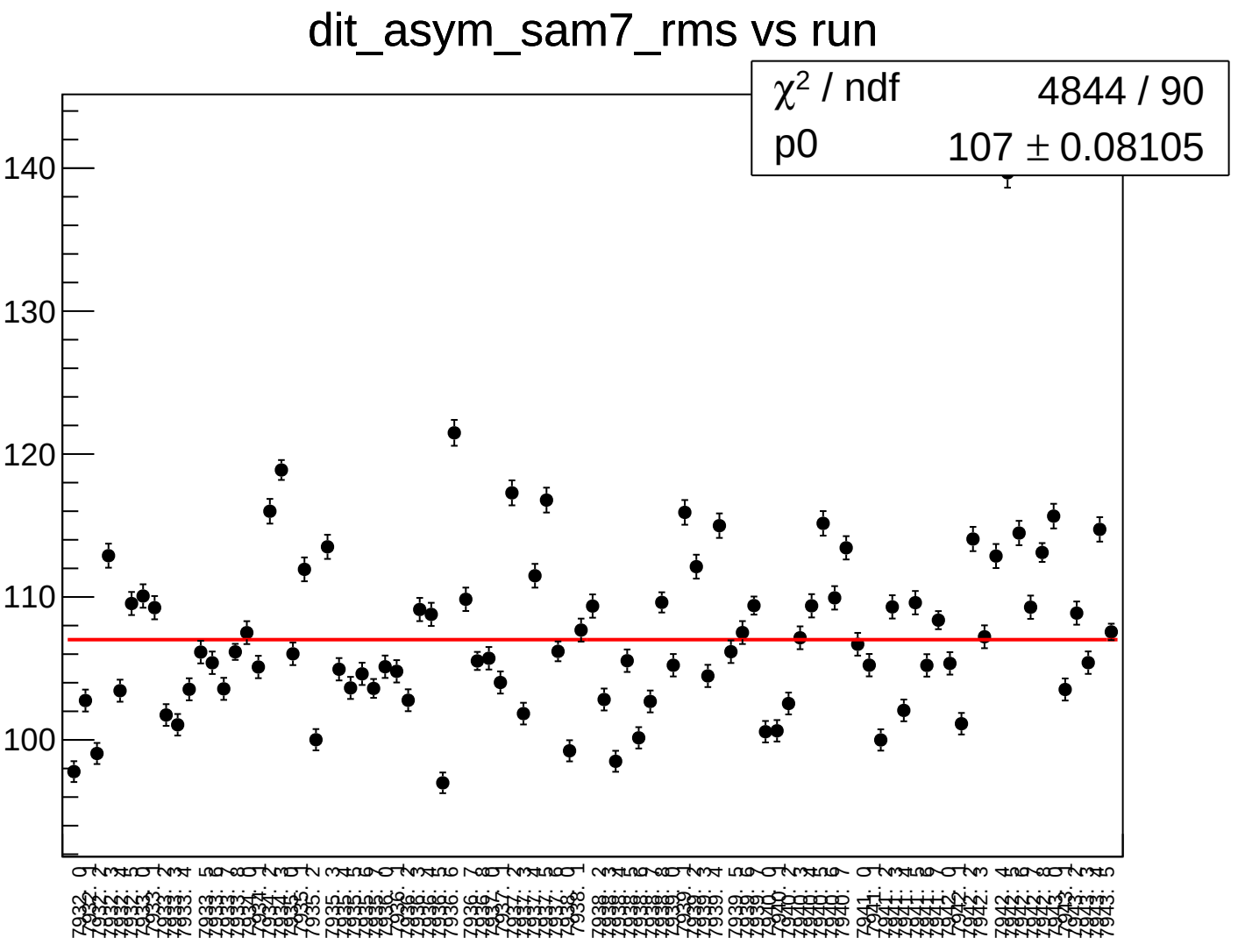

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 113.1 / 90
p0 −396.7 ± 1210
pull
Entries 91
Mean −19.52
Std Dev 0

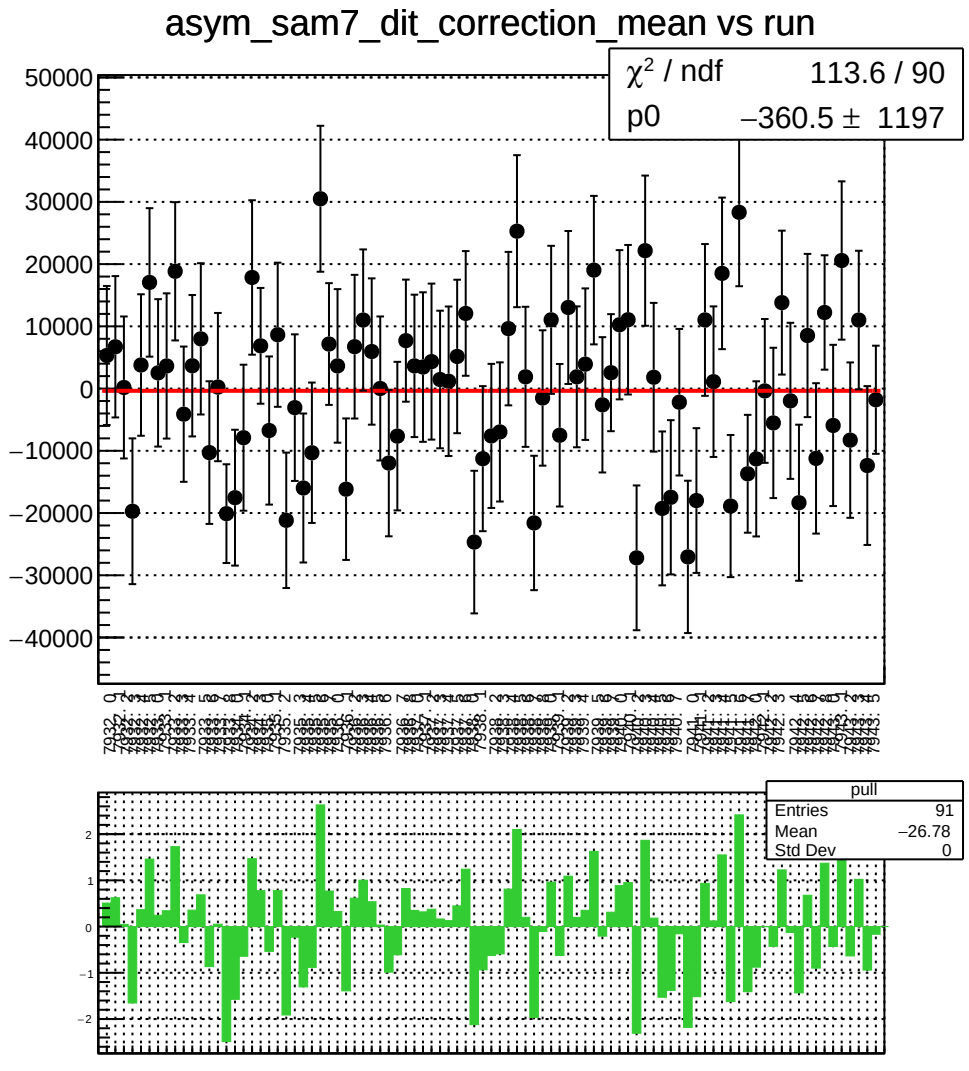

pull1D
Entries 91
Mean 0.01219
Std Dev 1.115

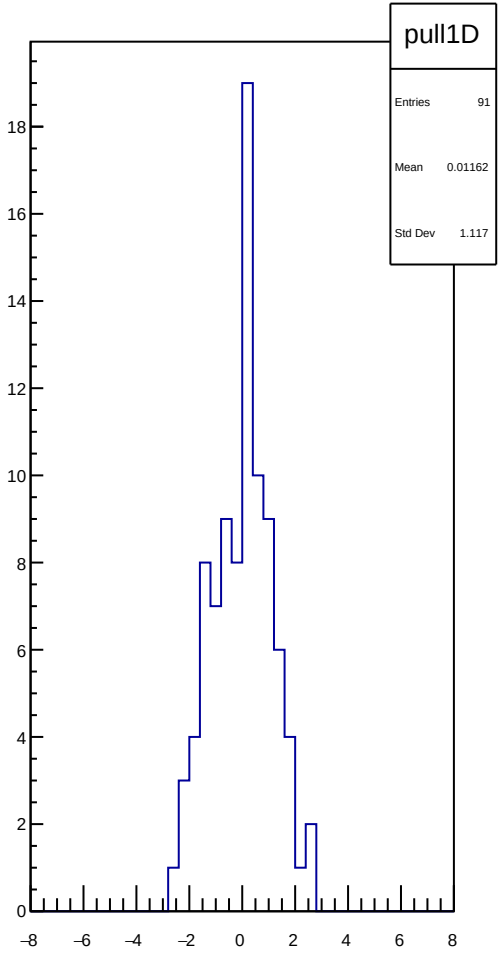

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2612 / 90
p0 1131 ± 0.8558
1250
1200
1150
1100
1050

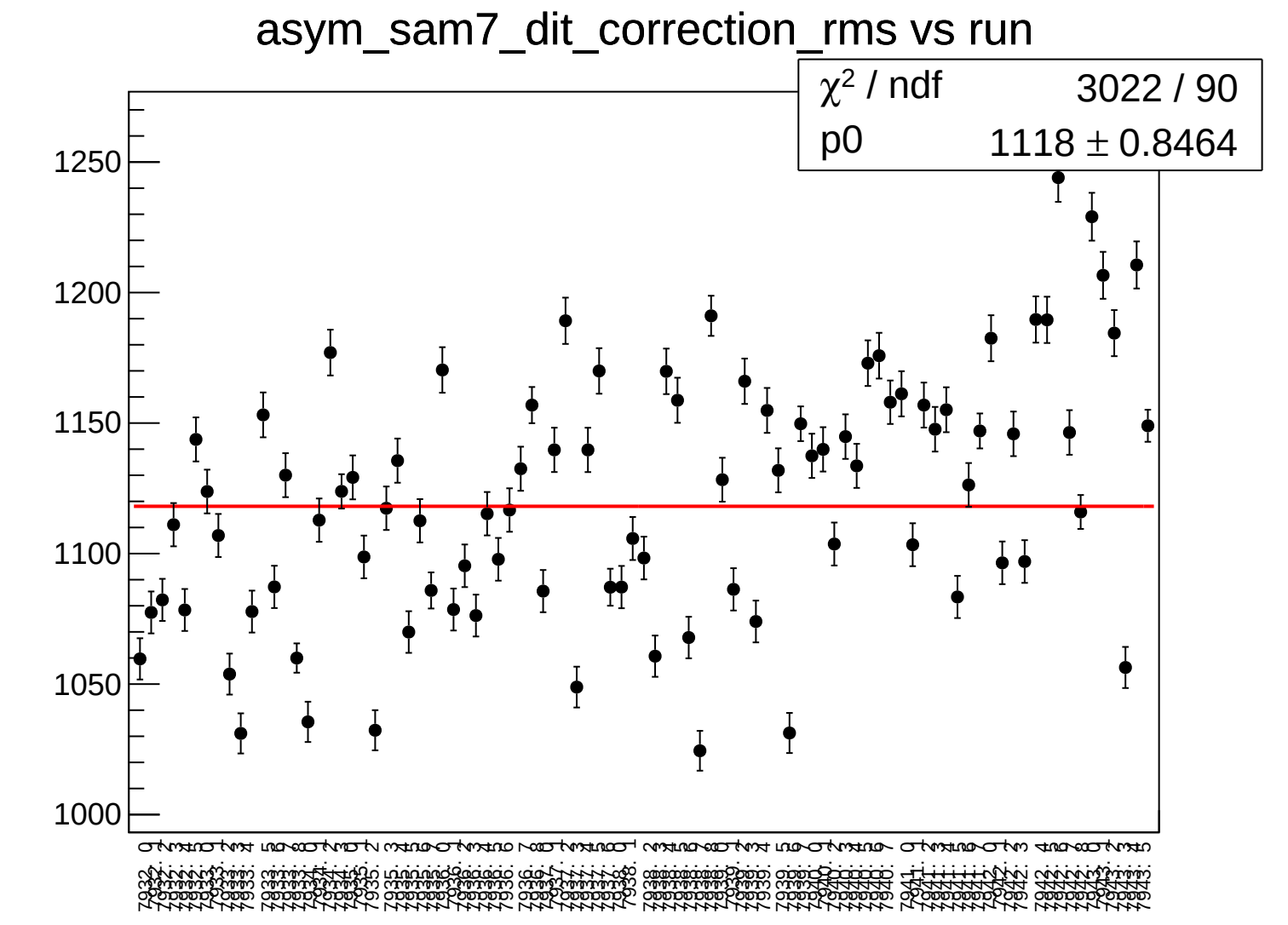

dit_asym_sam7_mean vs run
χ² / ndf 92.29 / 90
p0 455.3 ± 114.6
pull
Entries 91
Mean −766.7
Std Dev 0

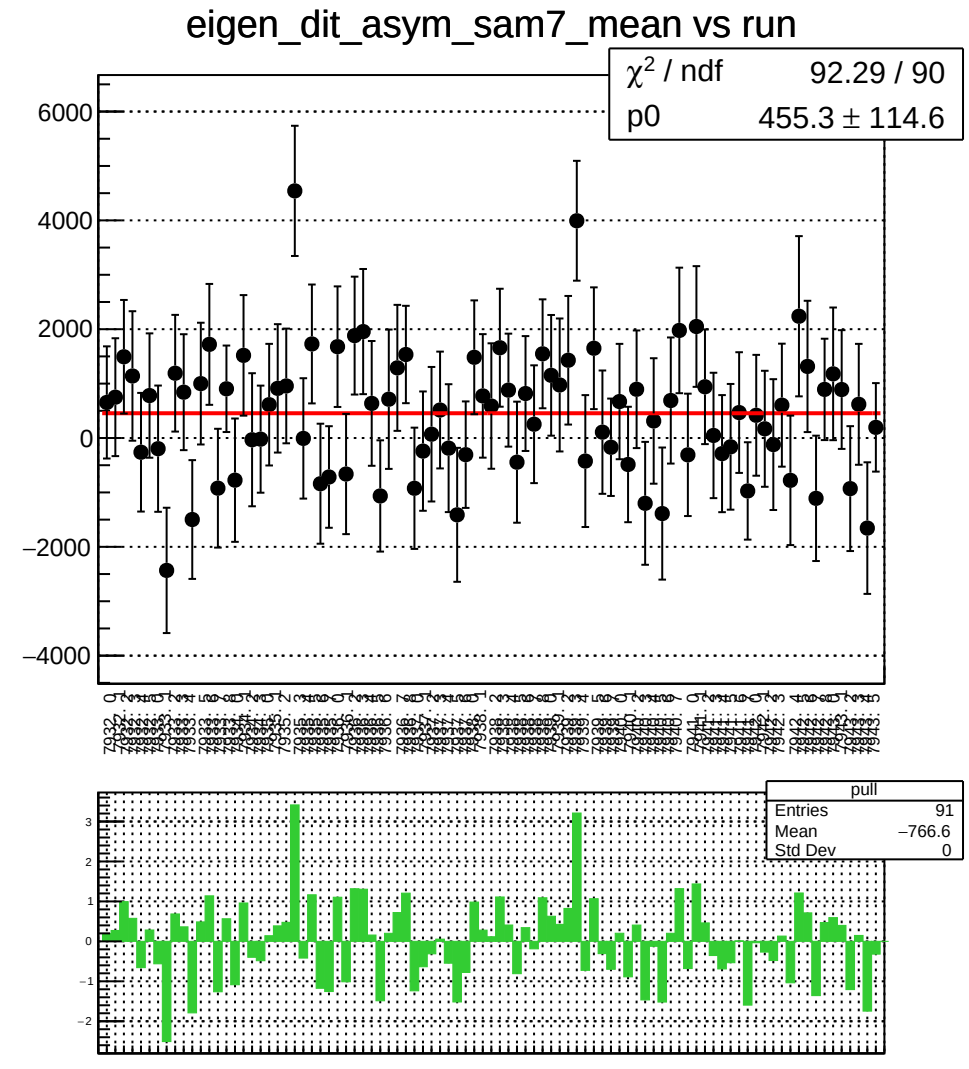

pull1D
Entries 91
Mean 0.00253
Std Dev 1.007

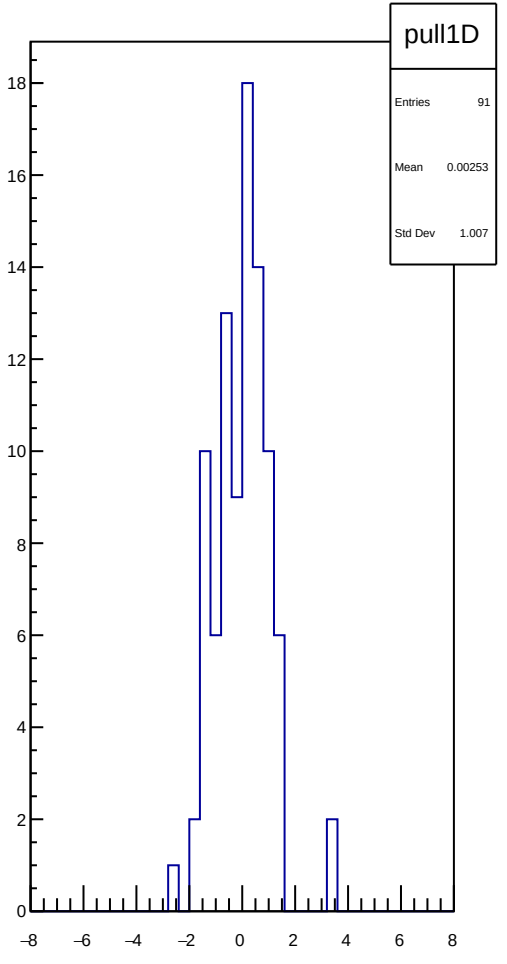

dit_asym_sam7_rms vs run
χ² / ndf 4844 / 90
p0 107 ± 0.08105
140
130
120
110
100

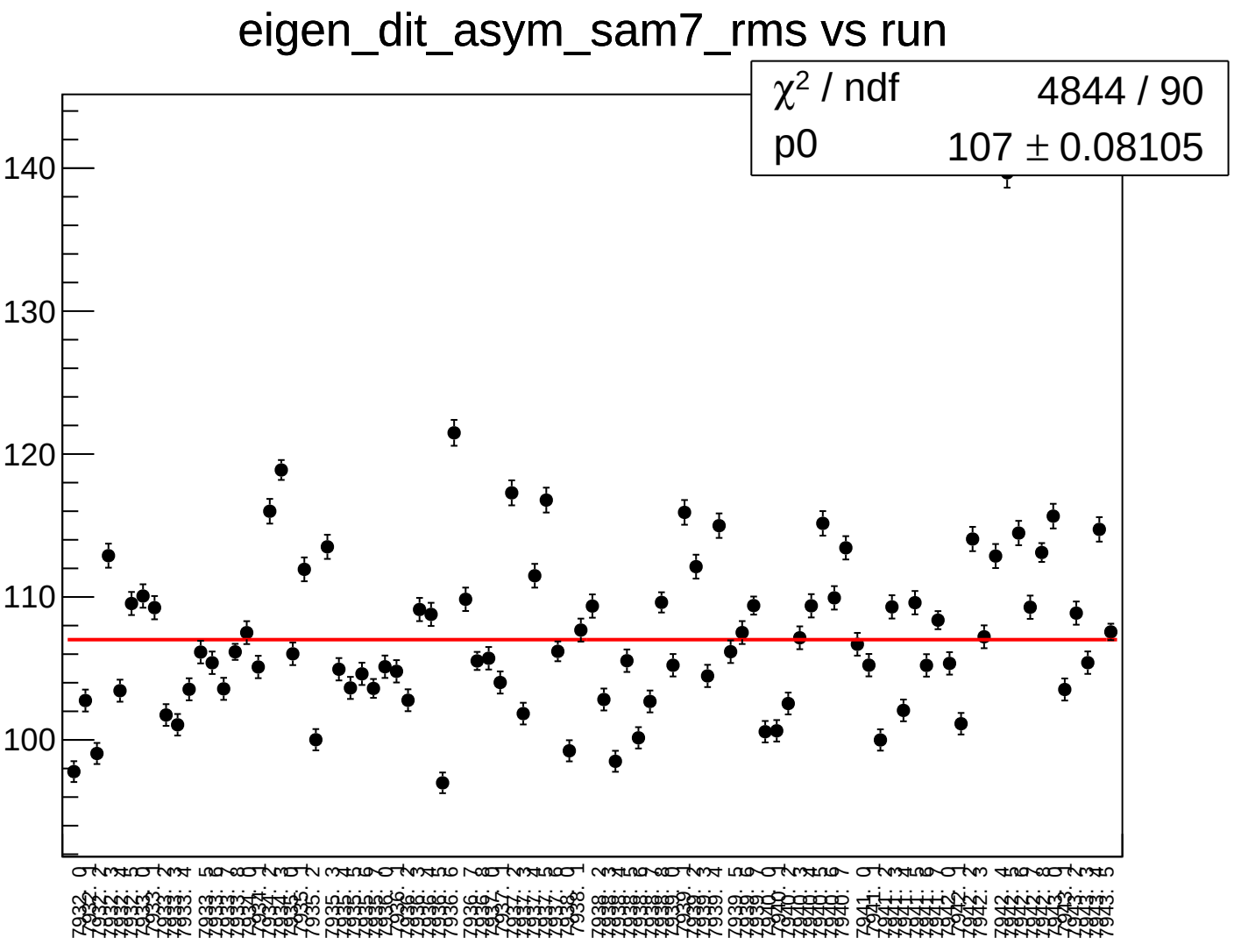

asym_sam7_dit_correction_mean vs run
χ² / ndf 113.6 / 90
p0 −360.5 ± 1197
pull
Entries 91
Mean −26.78
Std Dev 0

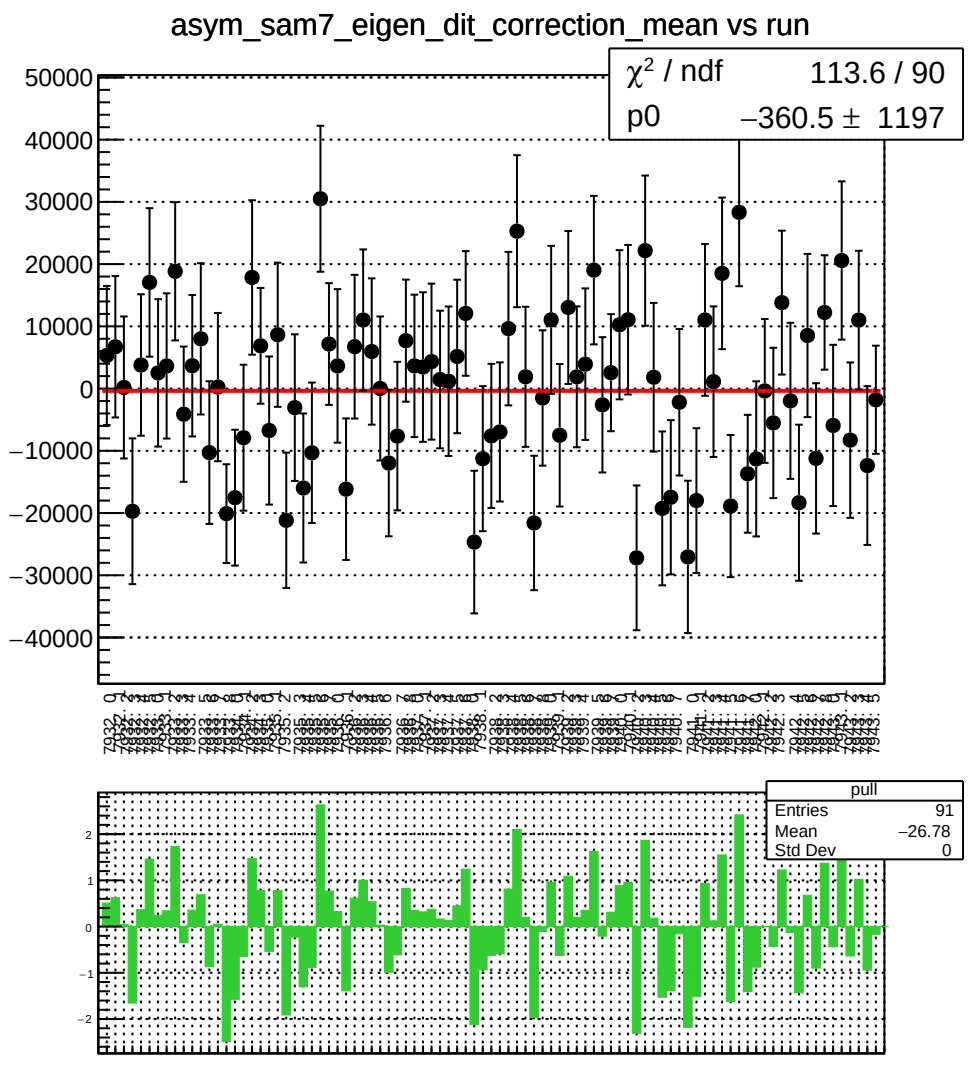

pull1D
Entries 91
Mean 0.01162
Std Dev 1.117

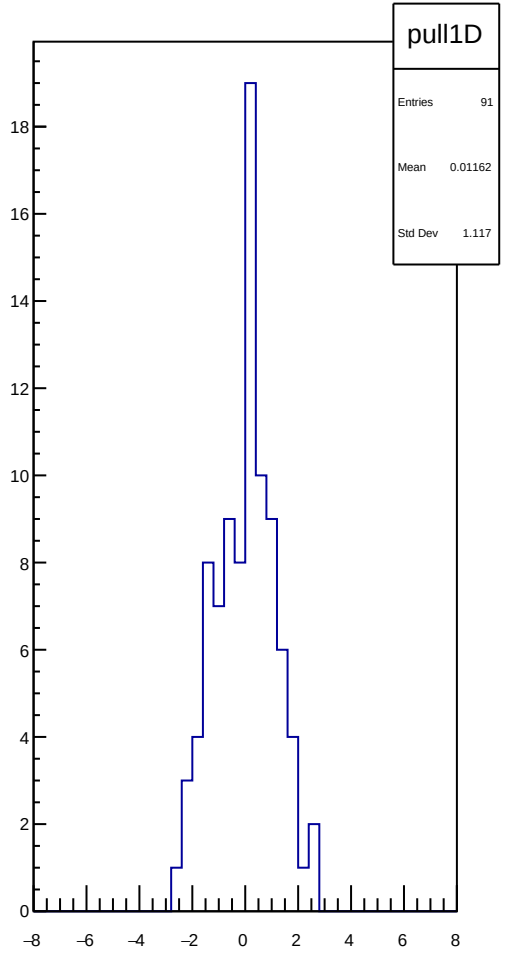

asym_sam7_dit_correction_rms vs run
χ² / ndf 3022 / 90
p0 1118 ± 0.8464
1250
1200
1150
1100
1050
1000

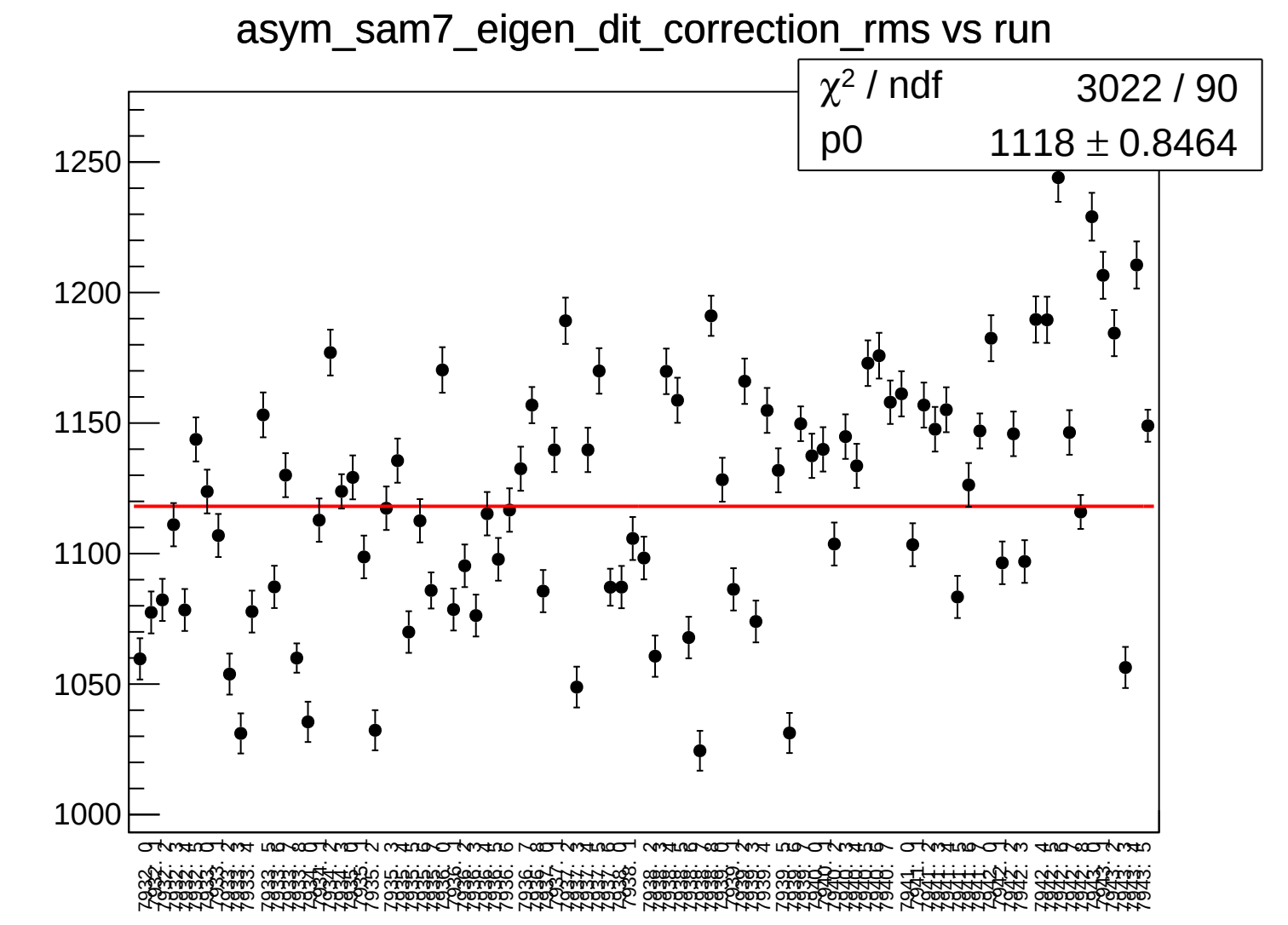

eigen_dit_asym_sam7_mean vs run
χ² / ndf 92.29 / 90
p0 455.3 ± 114.6
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −766.6
Std Dev 0
3
2
1
0
−1
−2

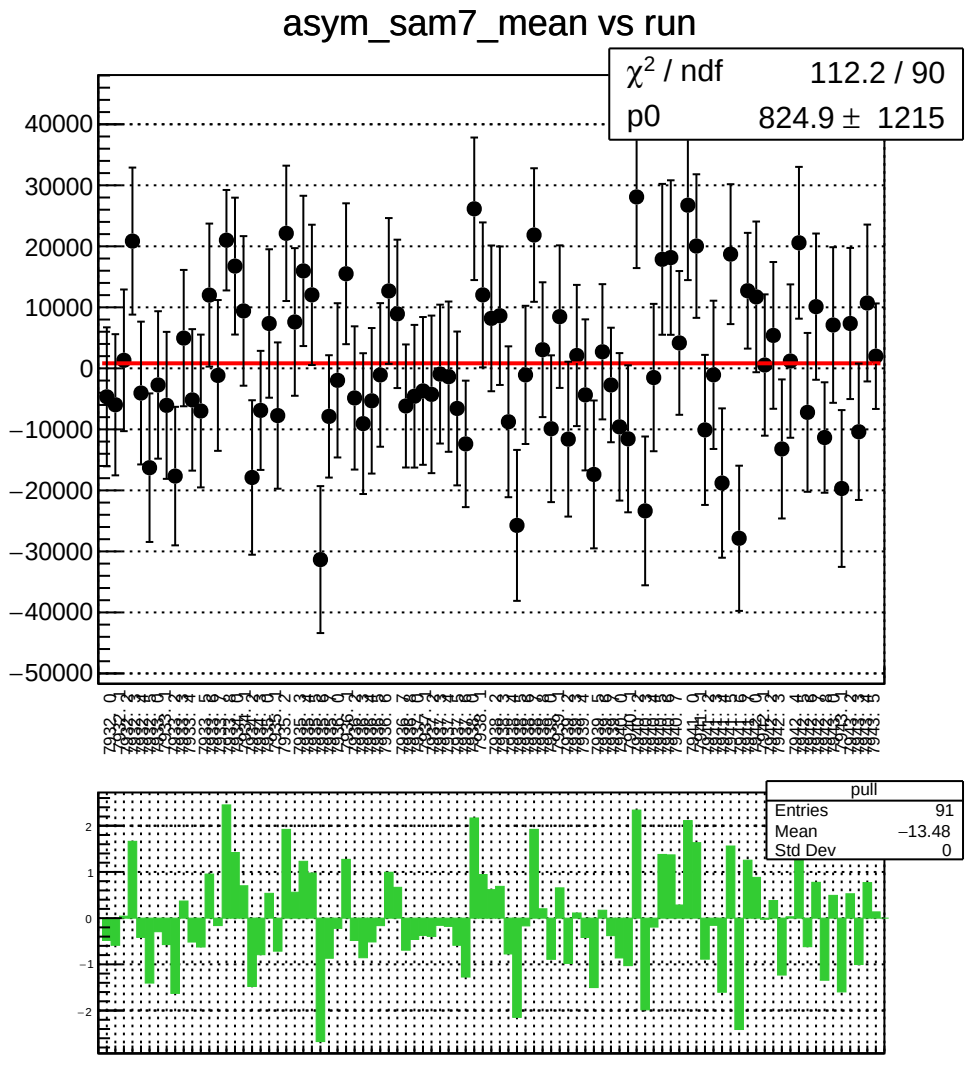

pull1D
Entries 91
Mean 0.00253
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

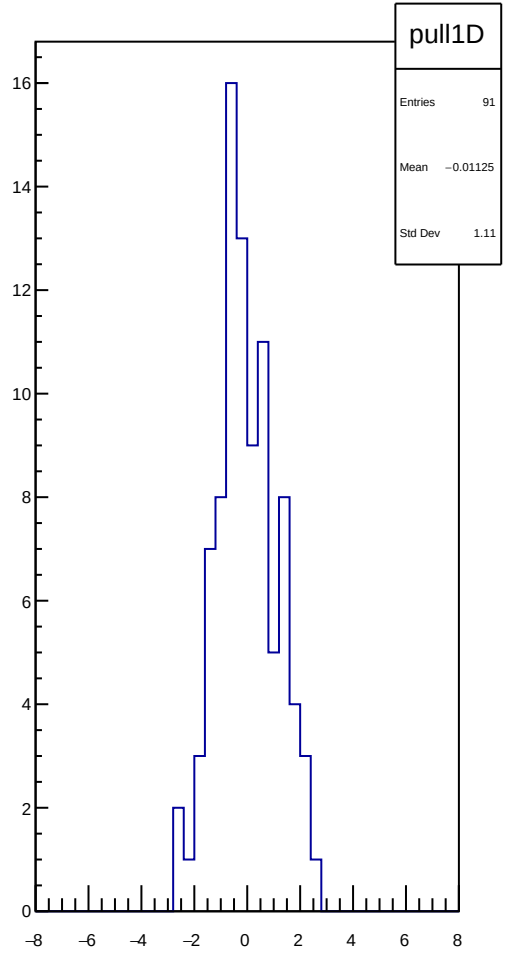

eigen_dit_asym_sam7_rms vs run
χ² / ndf 4844 / 90
p0 107 ± 0.08105
140
130
120
110
100

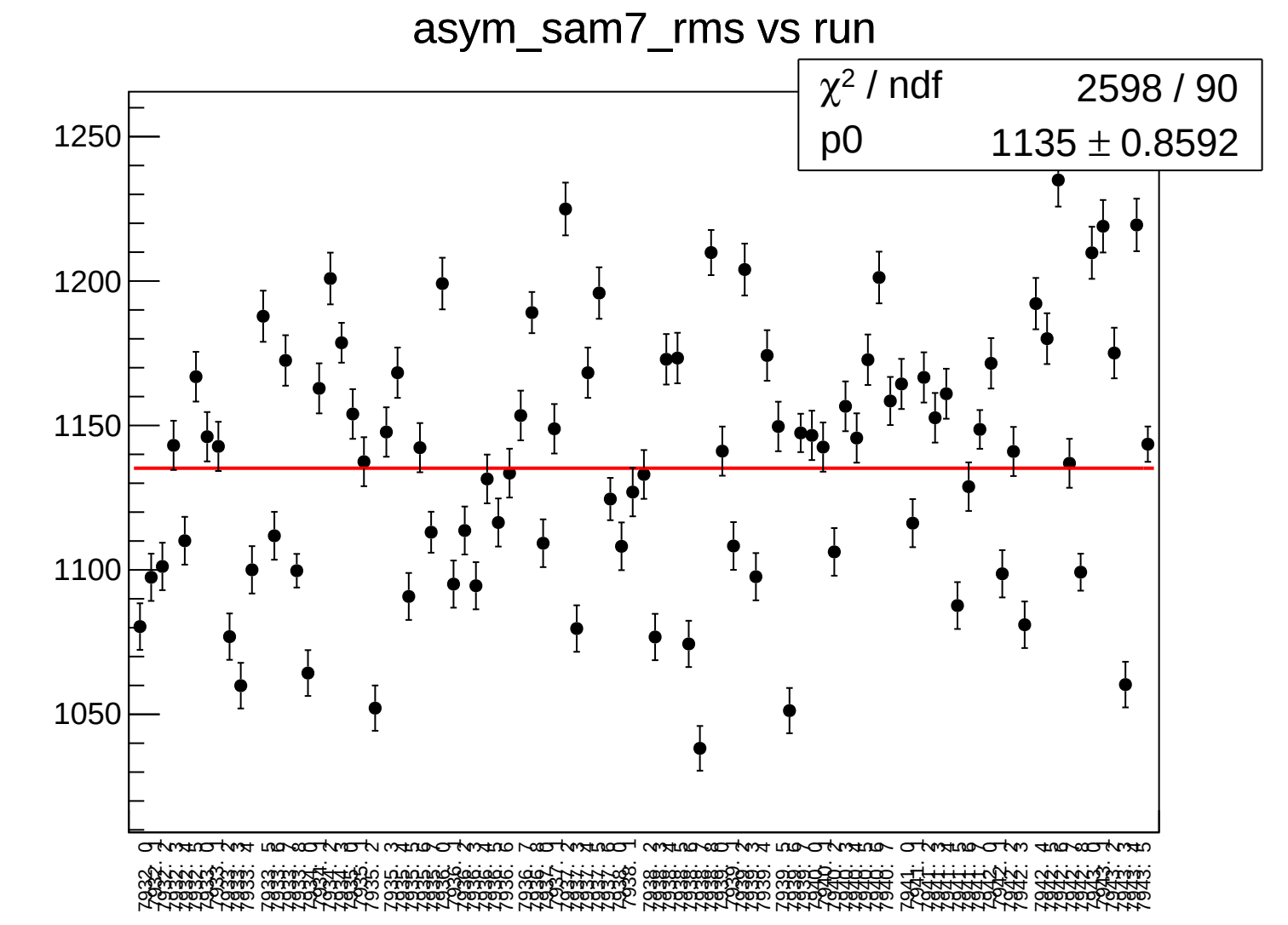

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 113.6 / 90
p0 −360.5 ± 1197
pull
Entries 91
Mean −26.78
Std Dev 0

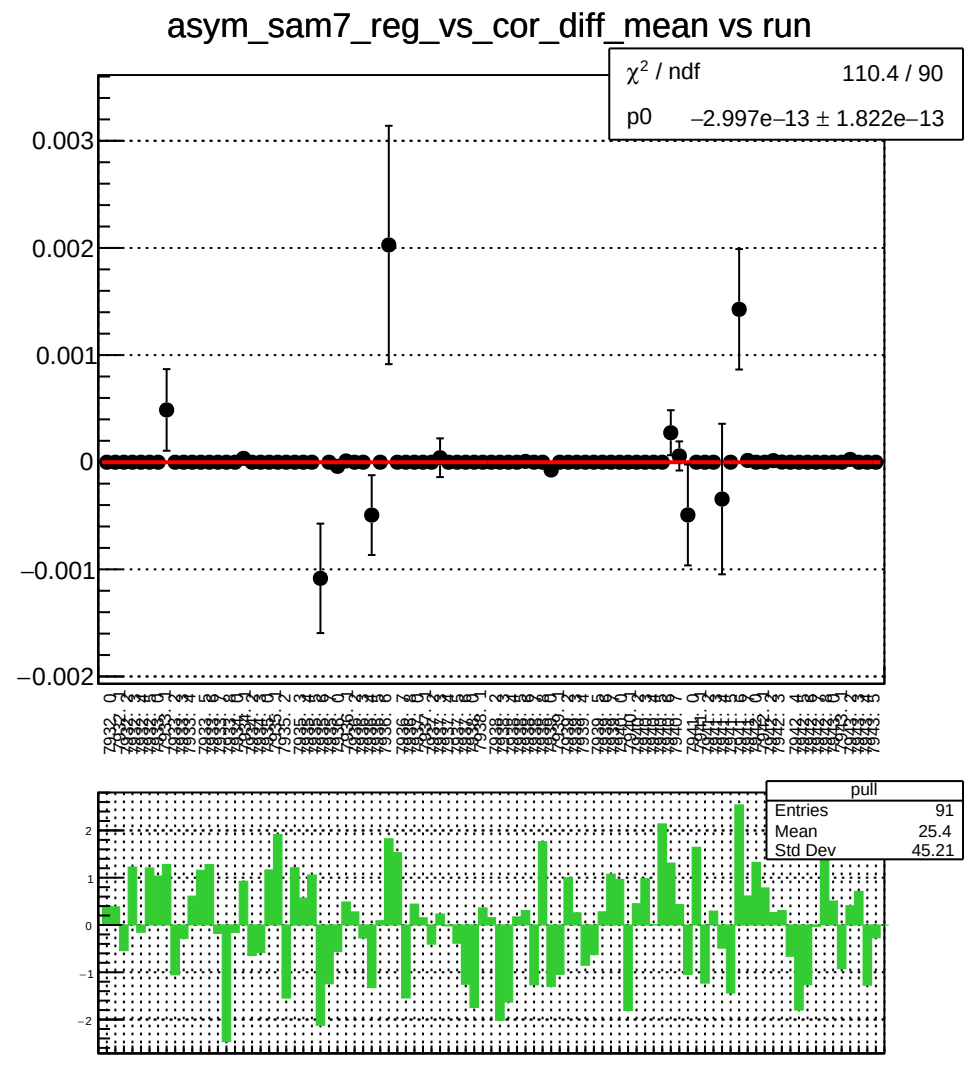

pull1D
Entries 91
Mean 0.01162
Std Dev 1.117

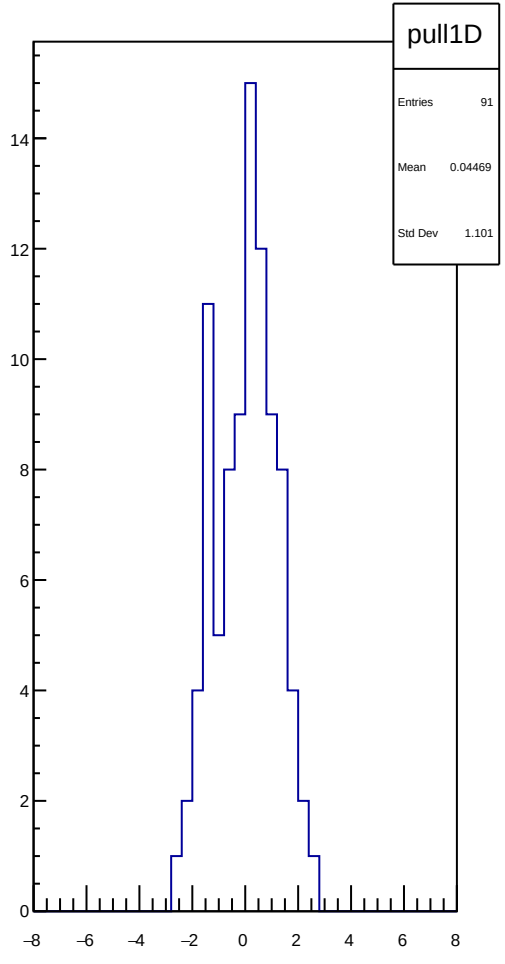

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3022 / 90
p0 1118 ± 0.8464
1250
1200
1150
1100
1050
1000

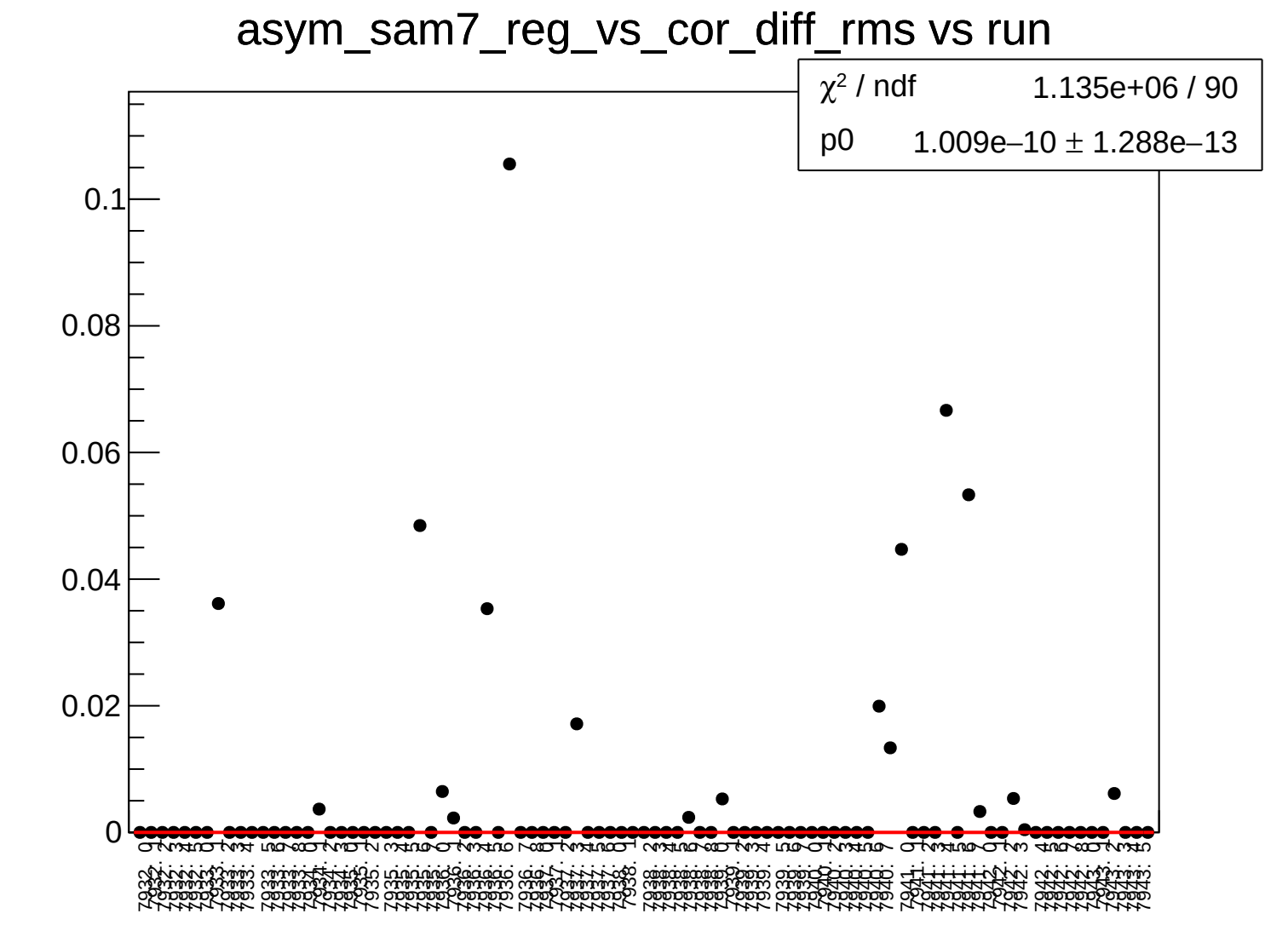

asym_sam7_mean vs run
χ² / ndf 112.2 / 90
p0 824.9 ± 1215
pull
Entries 91
Mean −13.48
Std Dev 0

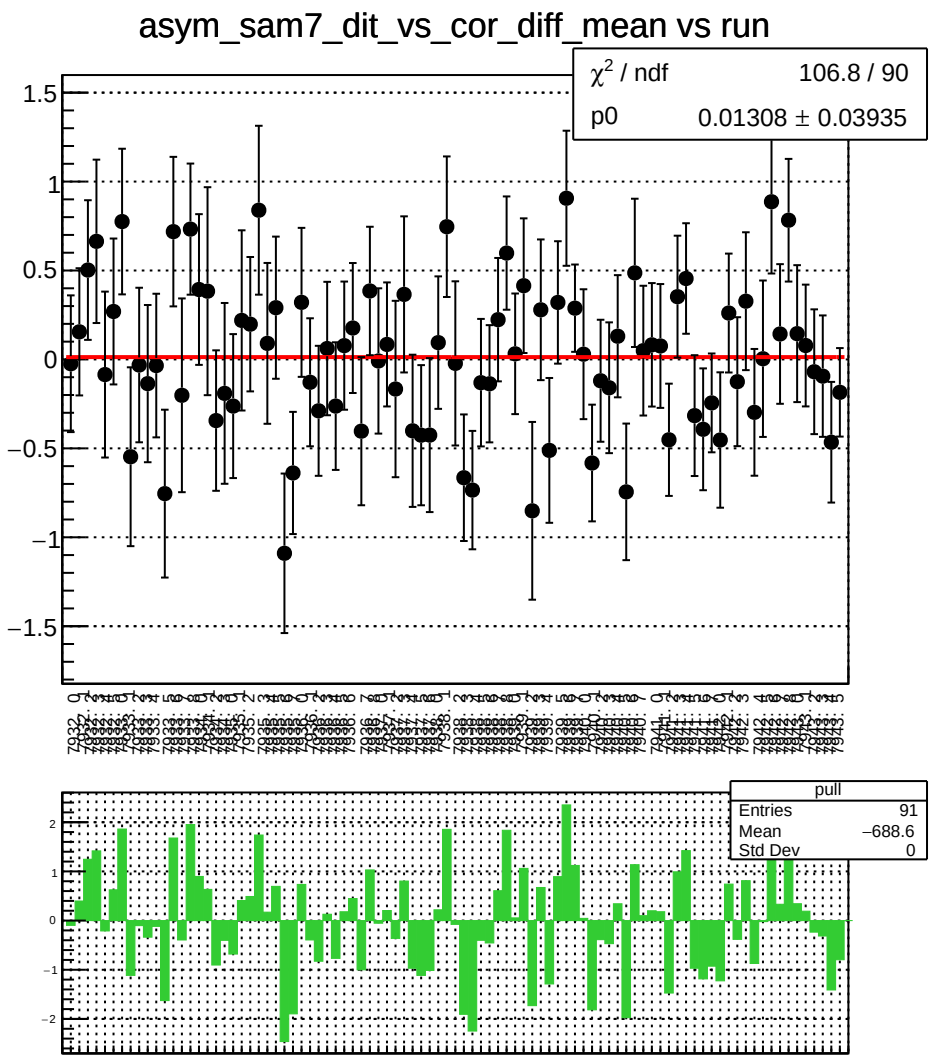

pull1D
Entries 91
Mean −0.01125
Std Dev 1.11

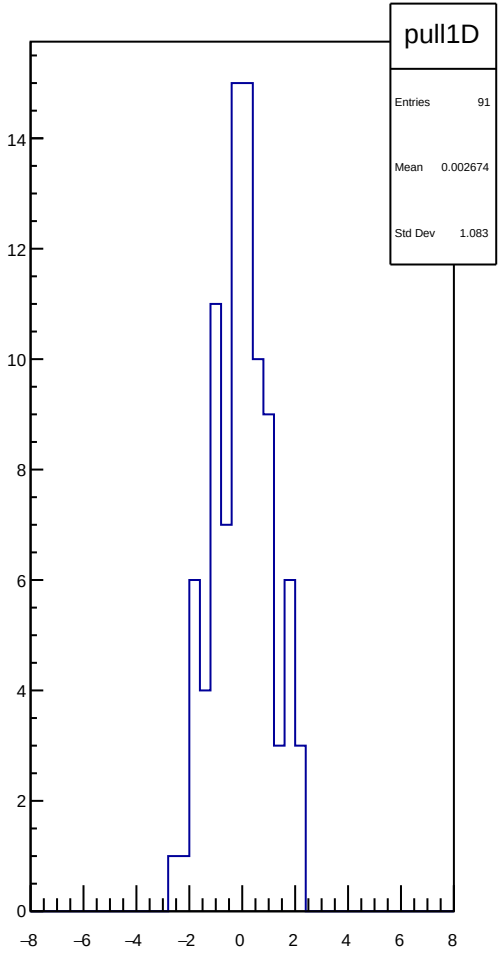

asym_sam7_rms vs run
χ^2 / ndf 2598 / 90
p0 1135 ± 0.8592
1250
1200
1150
1100
1050

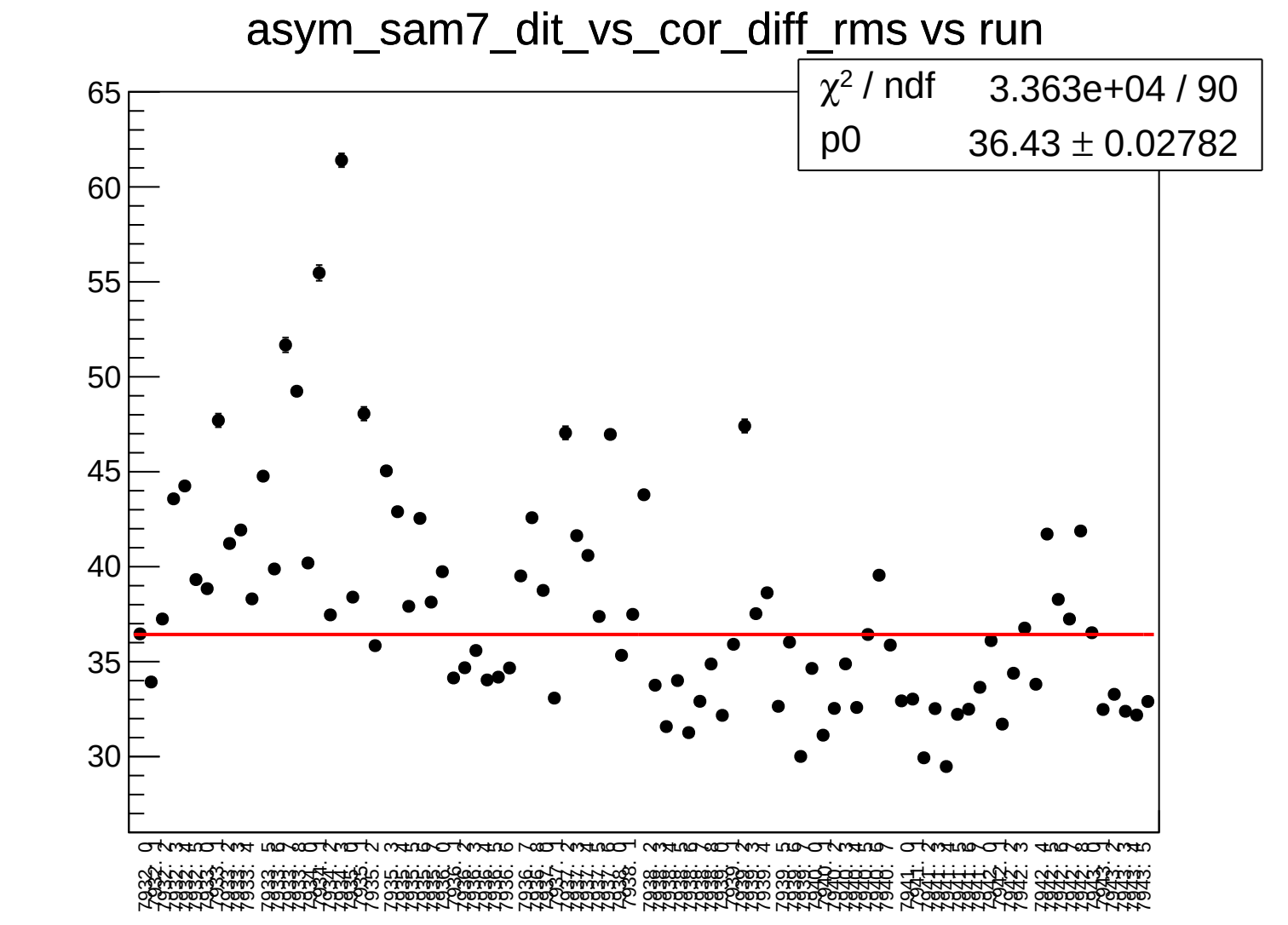

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 90
p0 −2.997e−13 ± 1.822e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 25.4
Std Dev 45.21
2
1
0
−1
−2

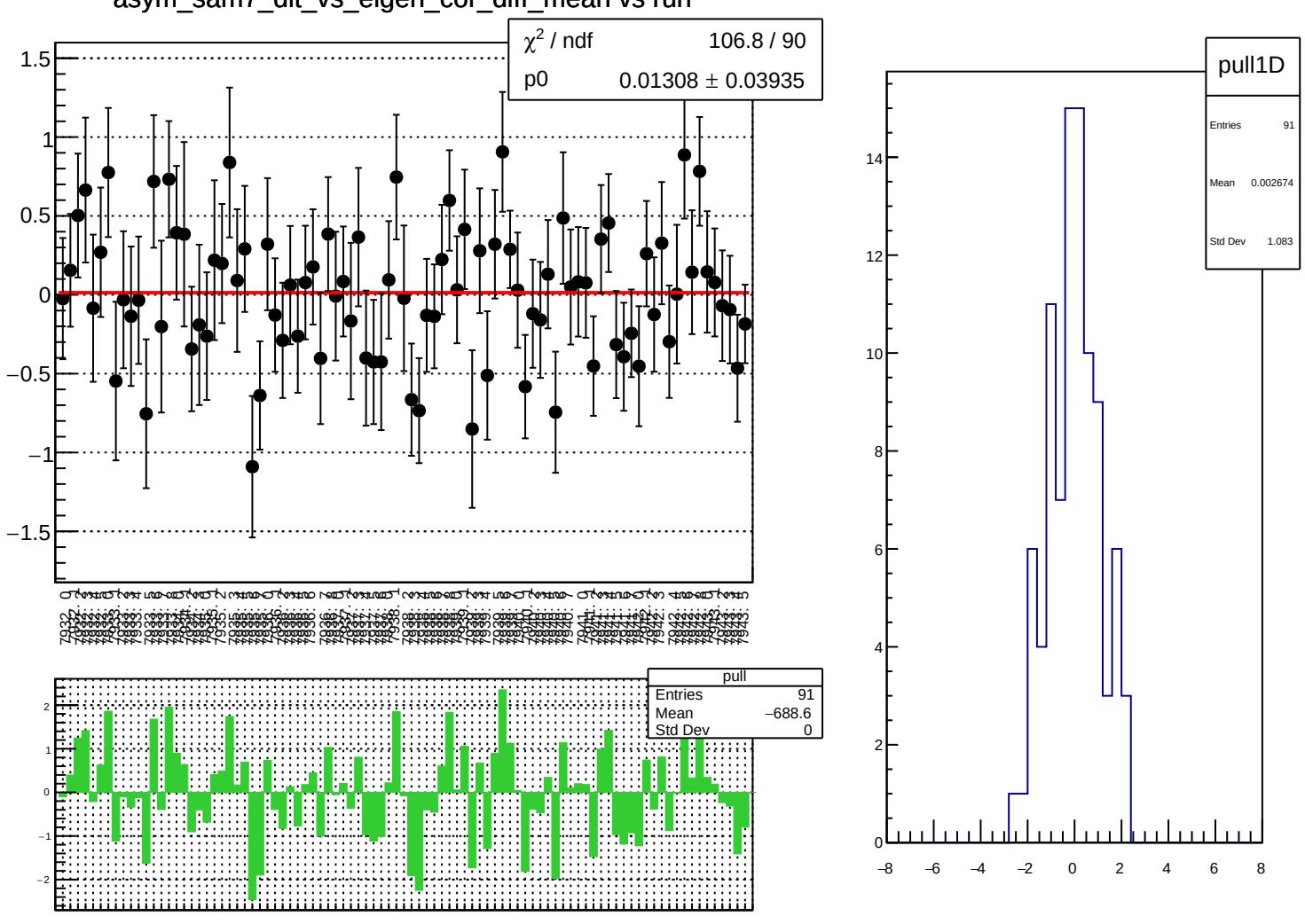

pull1D
Entries 91
Mean 0.04469
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

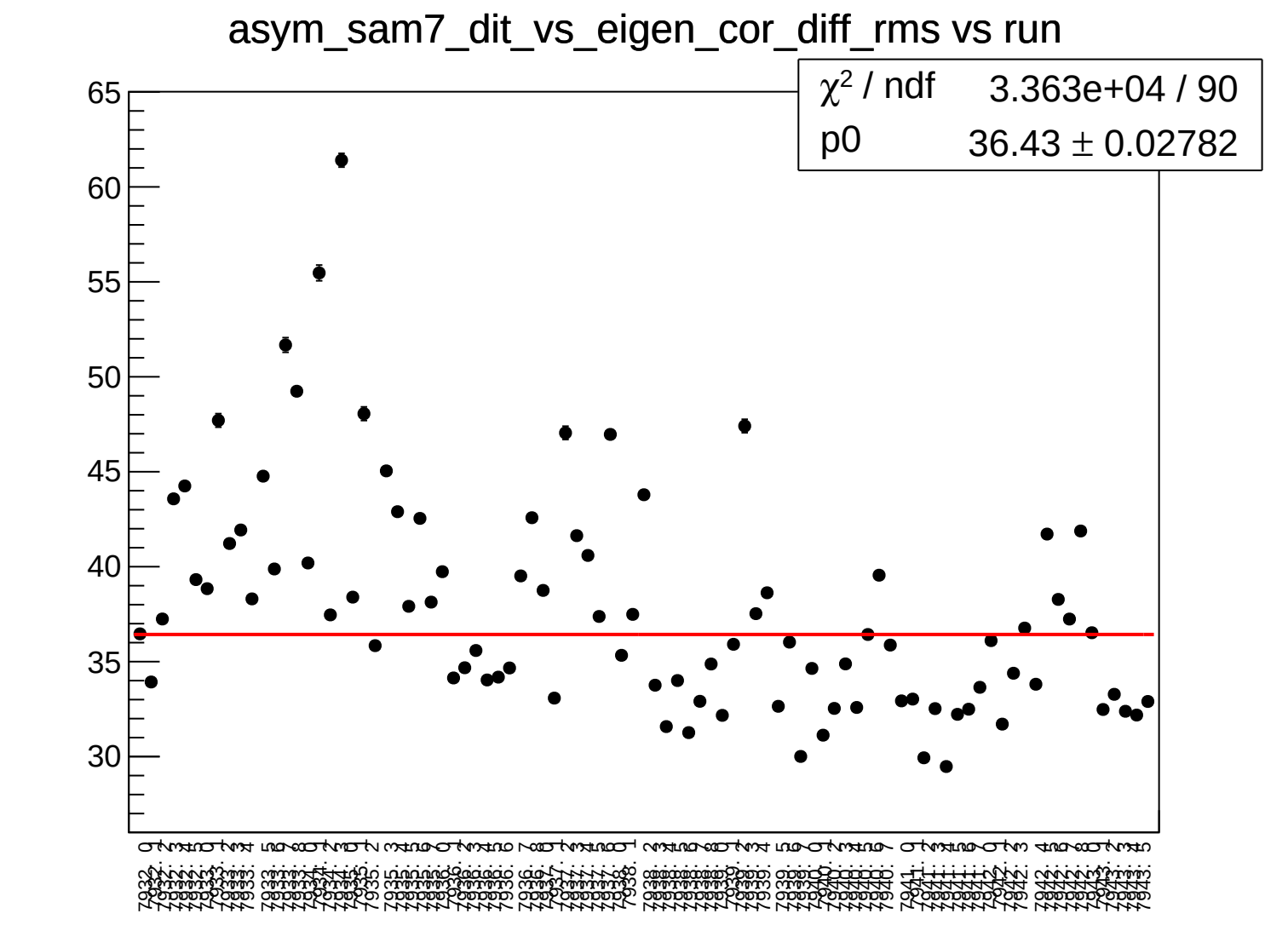

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 90
p0 1.009e−10 ± 1.288e−13
0.1
0.08
0.06
0.04
0.02
0

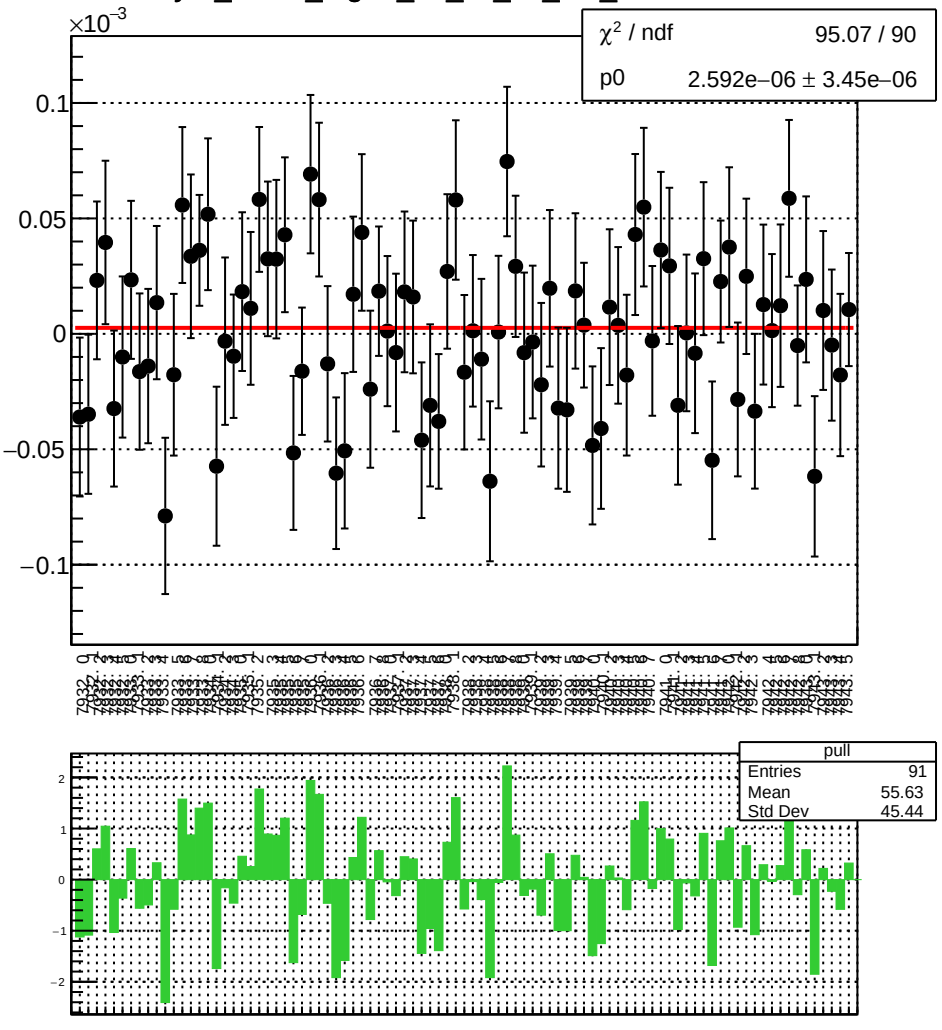

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 90
p0 0.01308 ± 0.03935
pull
Entries 91
Mean −688.6
Std Dev 0

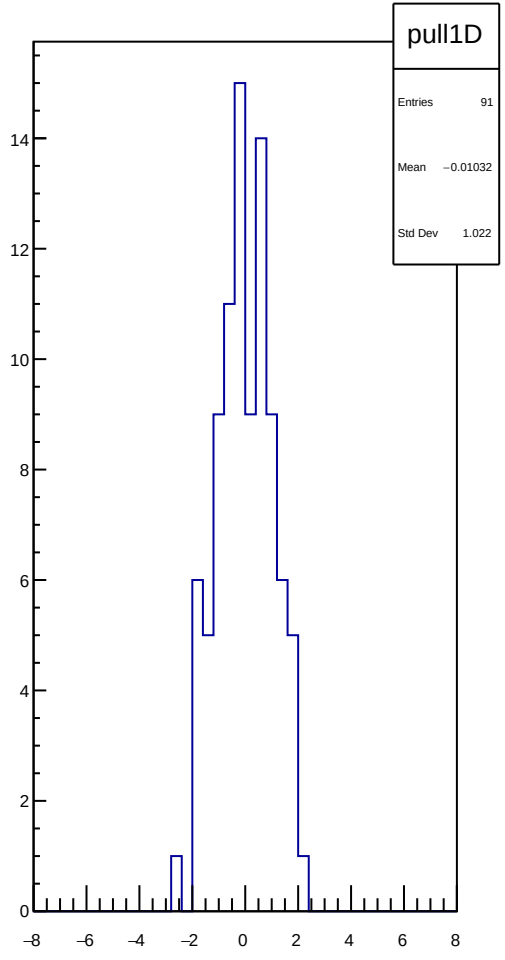

pull1D
Entries 91
Mean 0.002674
Std Dev 1.083

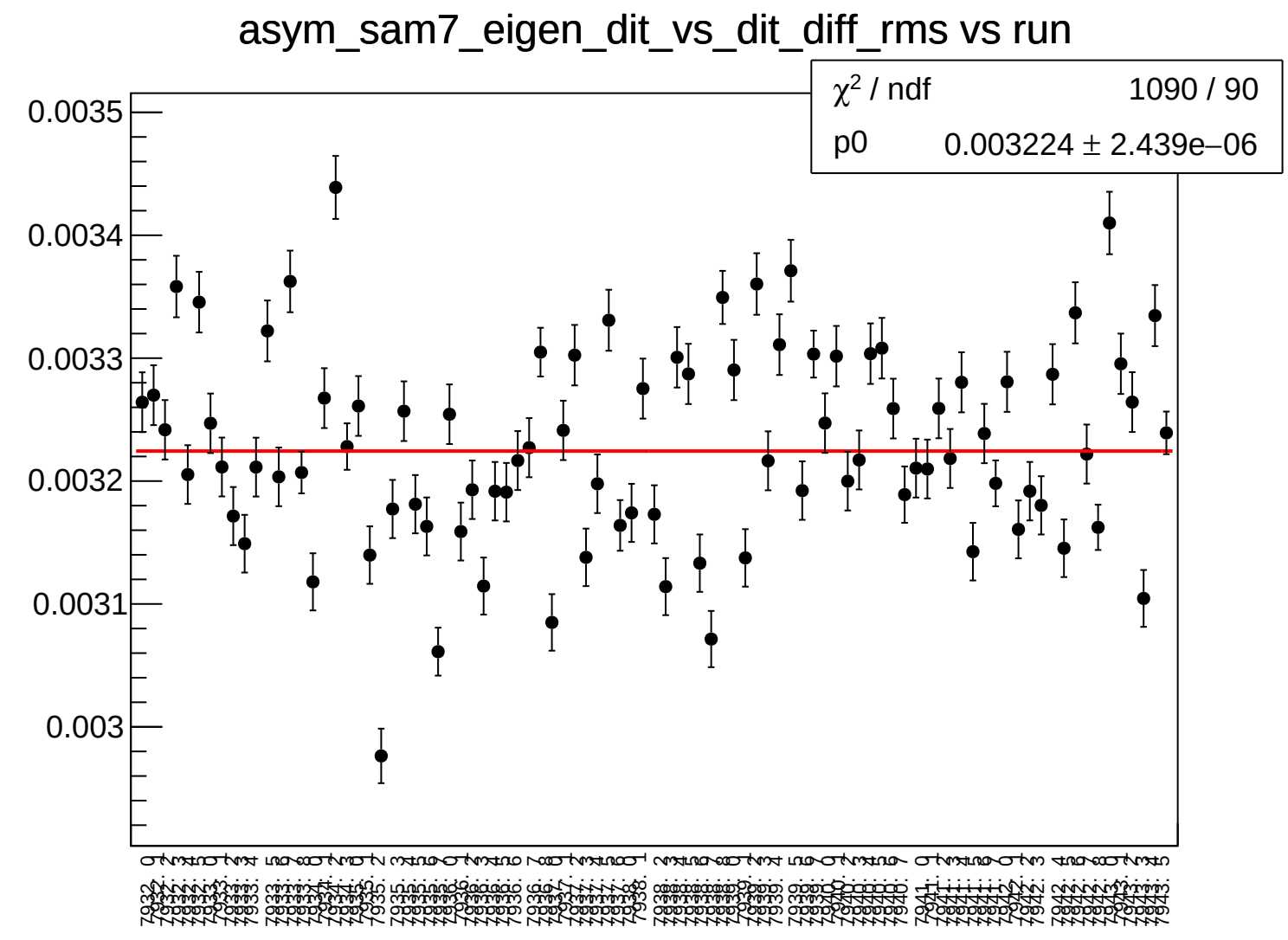

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 3.363e+04 / 90
p0 36.43 ± 0.02782
65
60
55
50
45
40
35
30

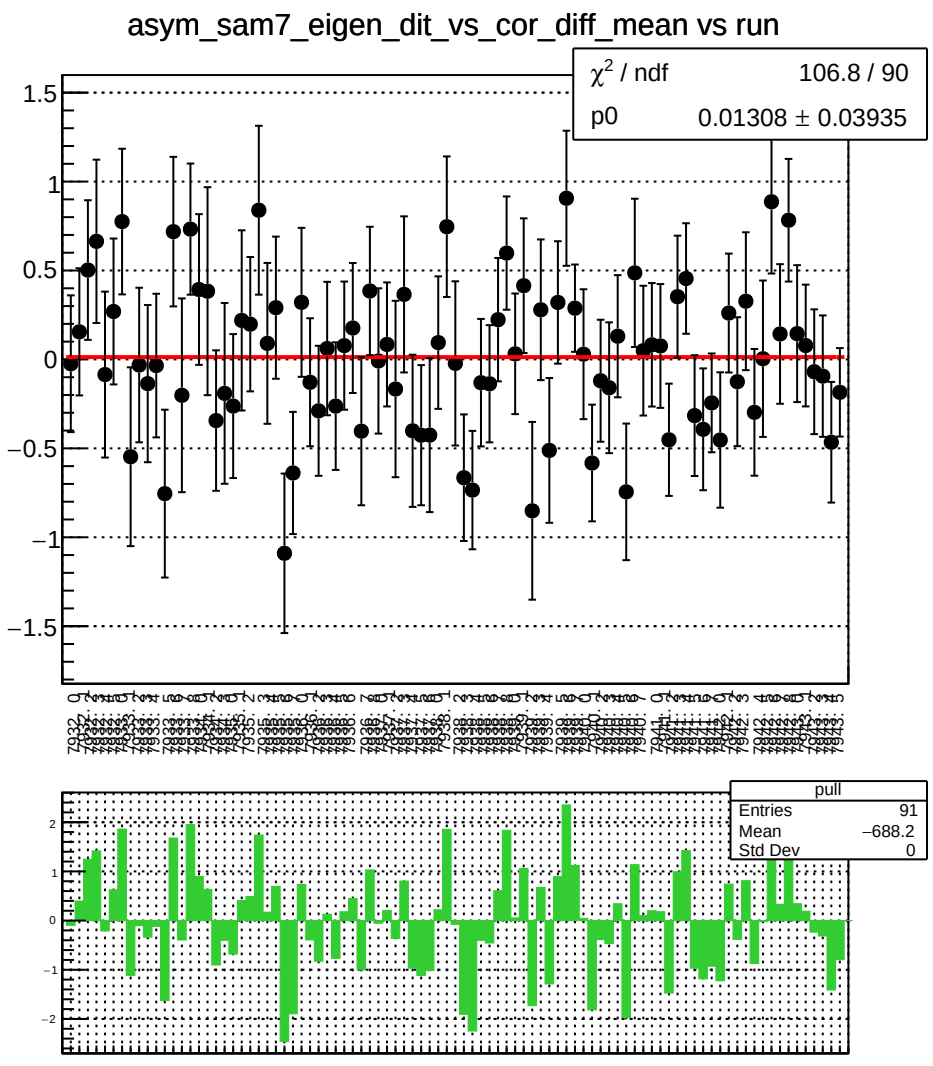

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 90
p0 0.01308 ± 0.03935
pull
Entries 91
Mean −688.6
Std Dev 0
pull1D
Entries 91
Mean 0.002674
Std Dev 1.083

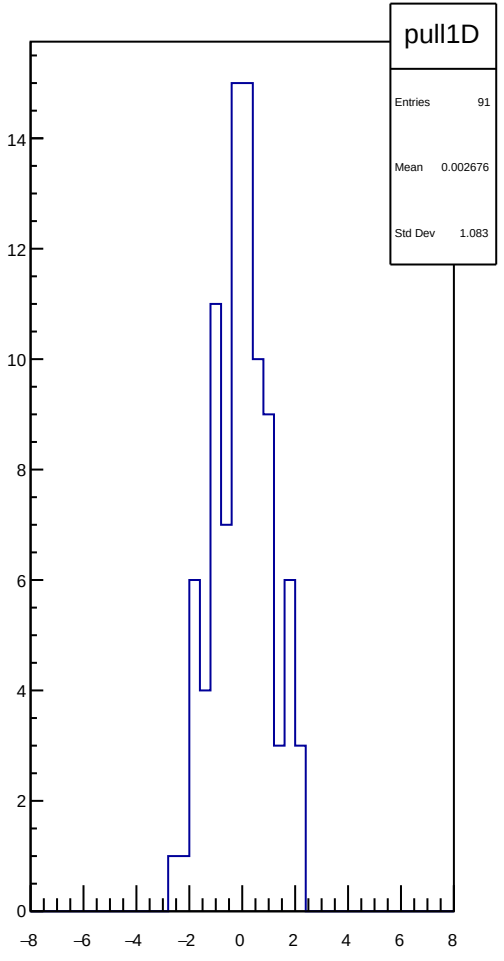

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.363e+04 / 90
p0 36.43 ± 0.02782
65
60
55
50
45
40
35
30

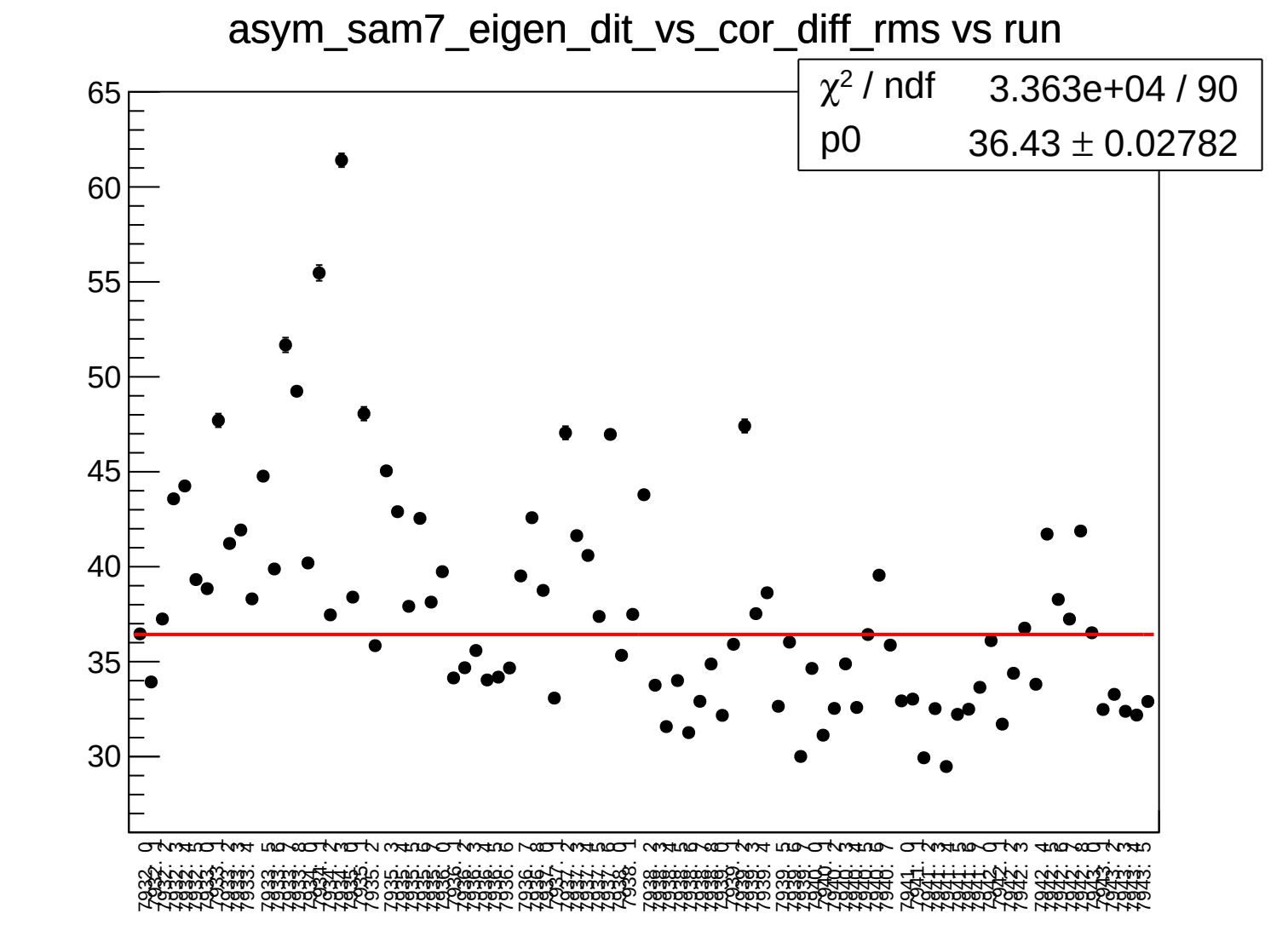

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.07 / 90
p0 2.592e−06 ± 3.45e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 55.63
Std Dev 45.44
2
1
0
−1
−2

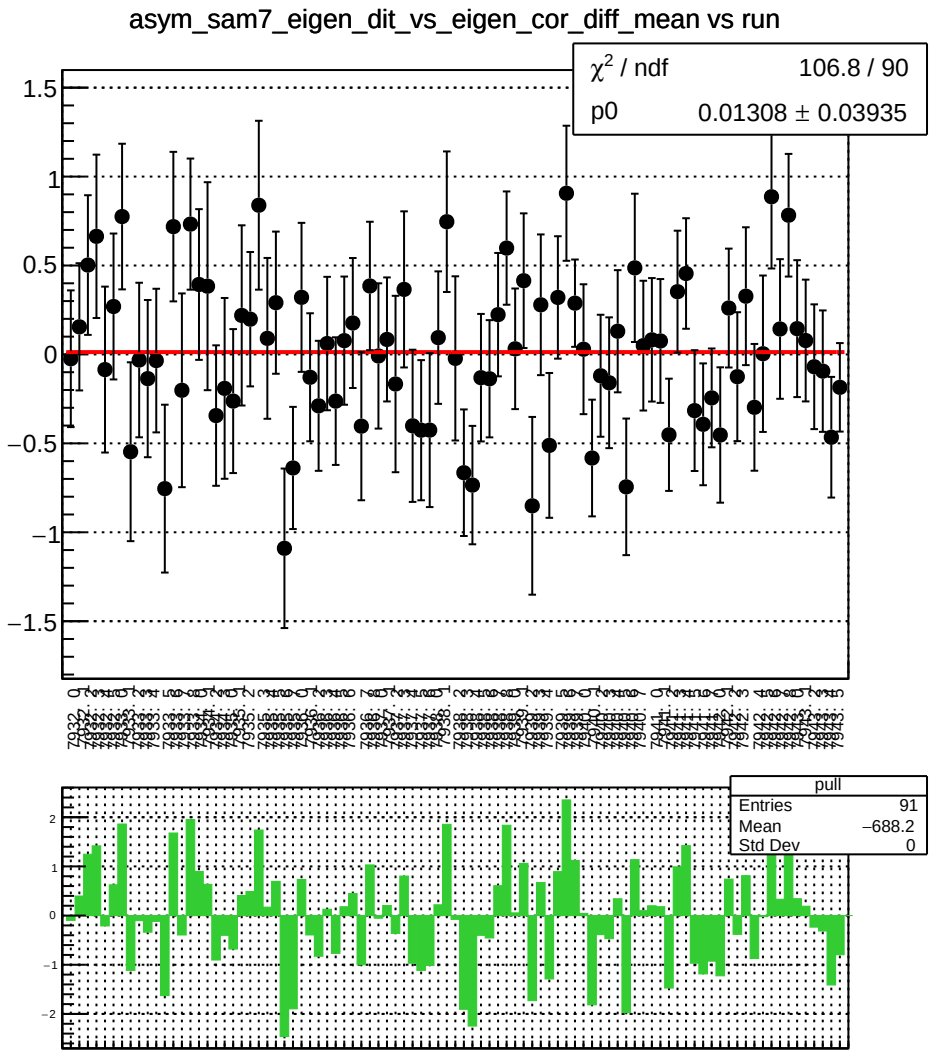

pull1D
Entries 91
Mean −0.01032
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

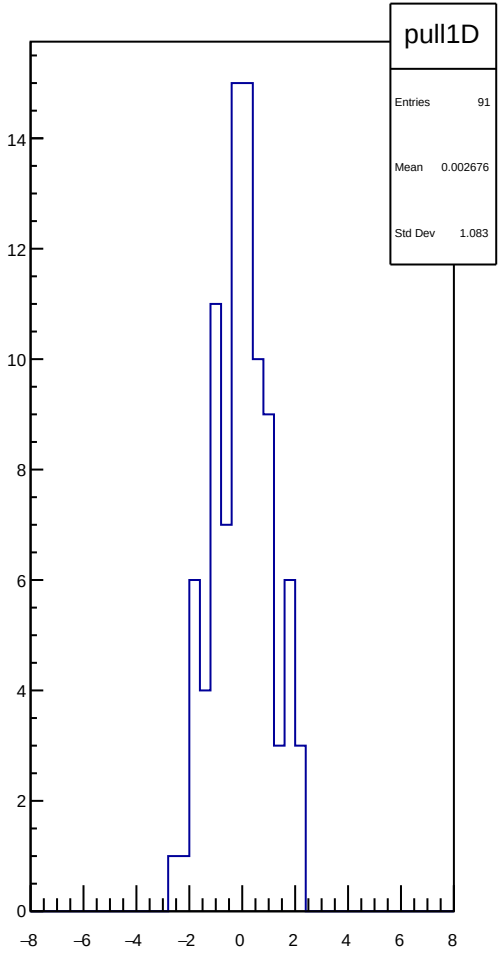

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1090 / 90
p0 0.003224 ± 2.439e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

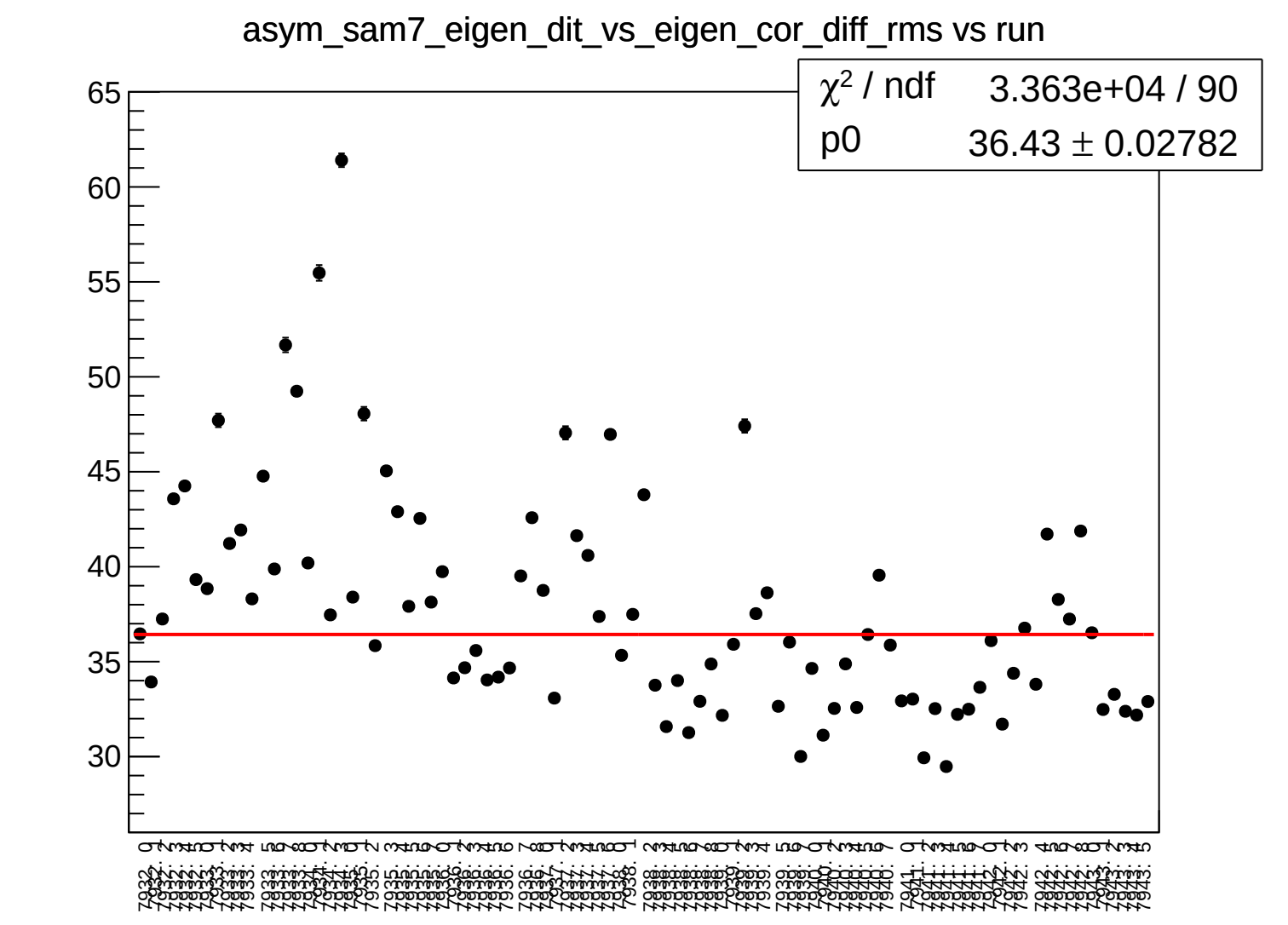

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 90
p0 0.01308 ± 0.03935
pull
Entries 91
Mean −688.2
Std Dev 0

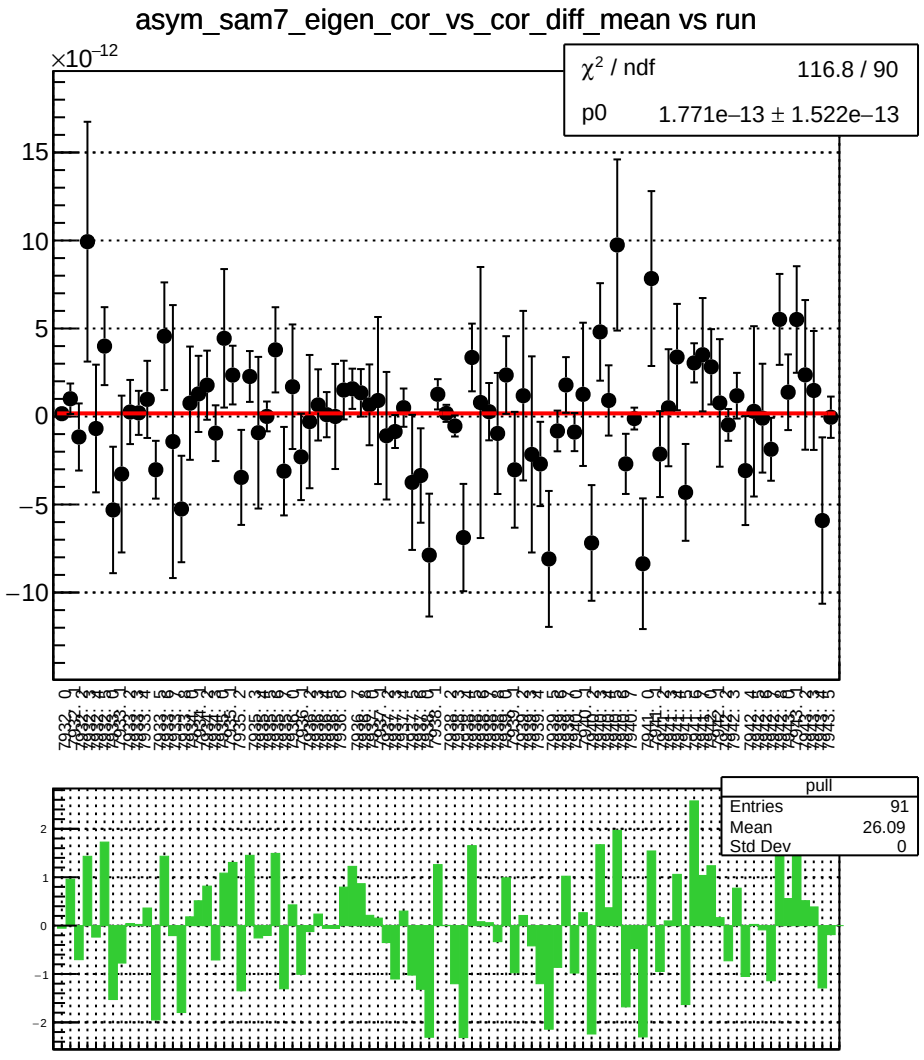

pull1D
Entries 91
Mean 0.002676
Std Dev 1.083

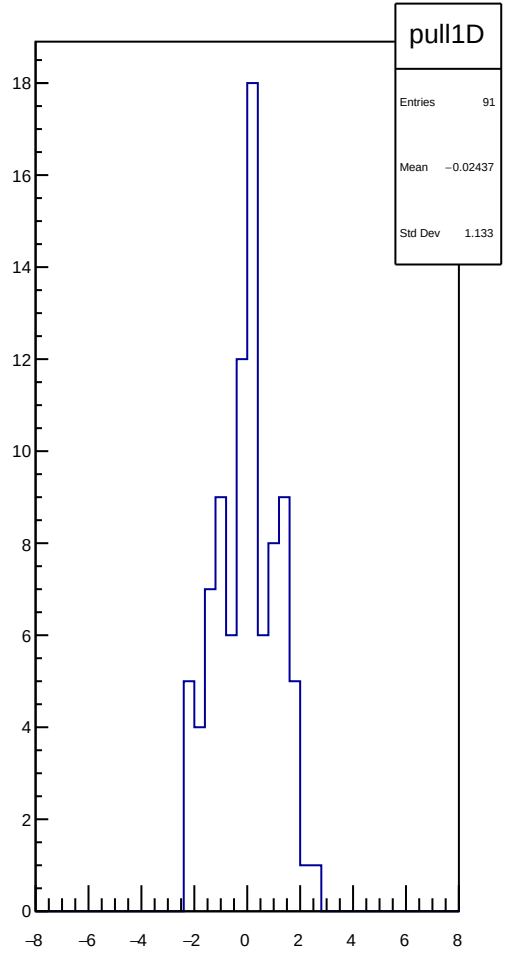

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.363e+04 / 90
p0 36.43 ± 0.02782
65
60
55
50
45
40
35
30

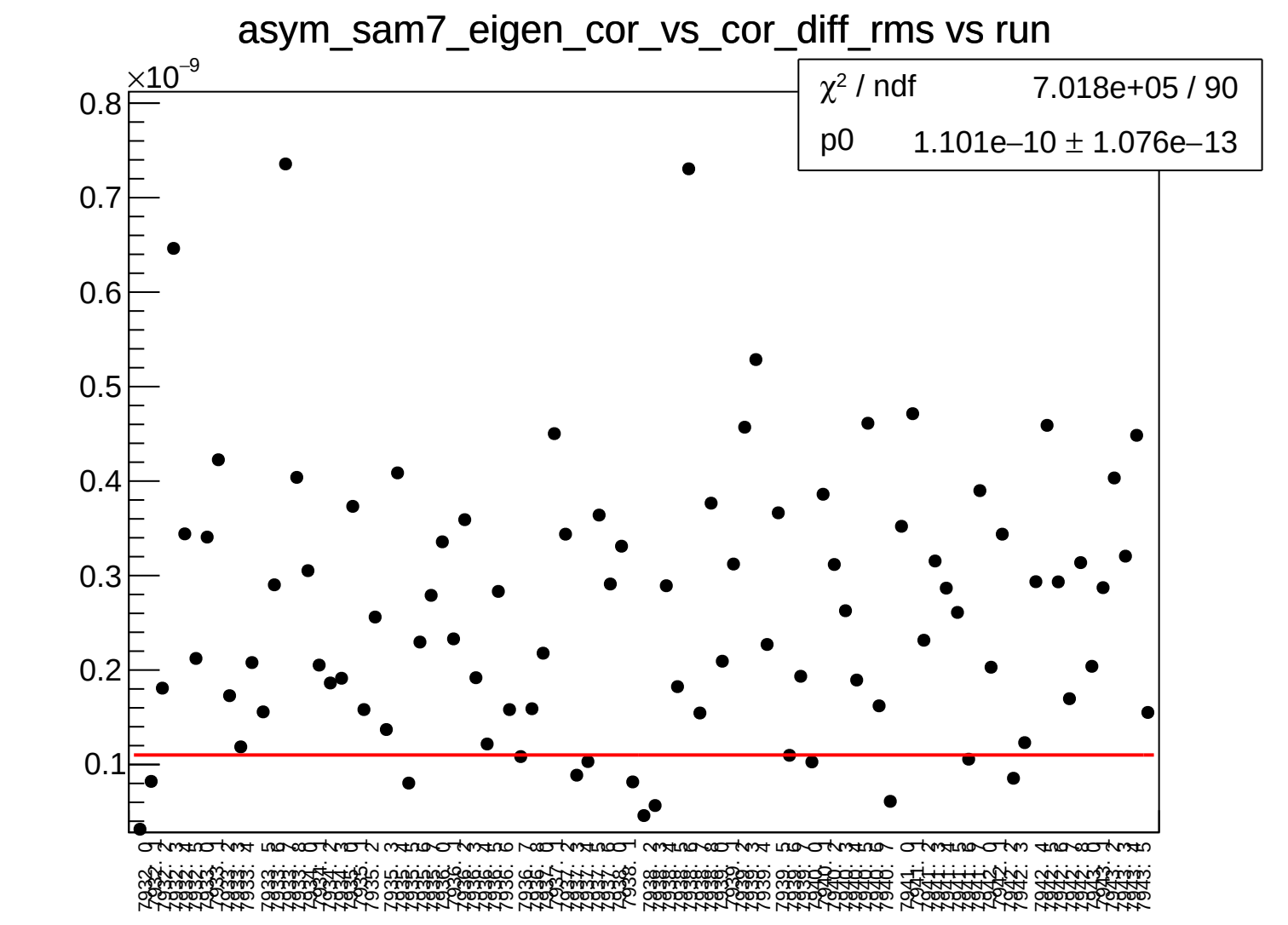

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 90
p0 0.01308 ± 0.03935
pull
Entries 91
Mean −688.2
Std Dev 0

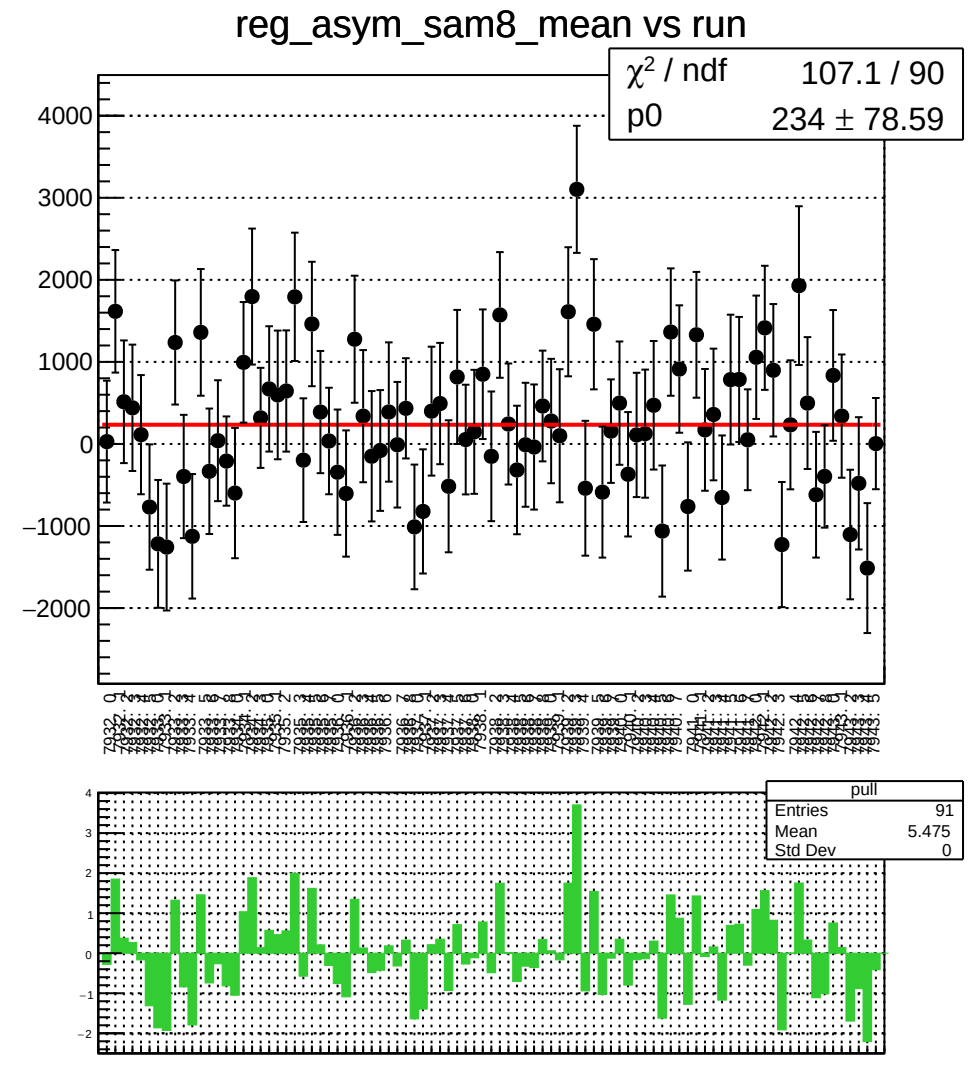

pull1D
Entries 91
Mean 0.002676
Std Dev 1.083

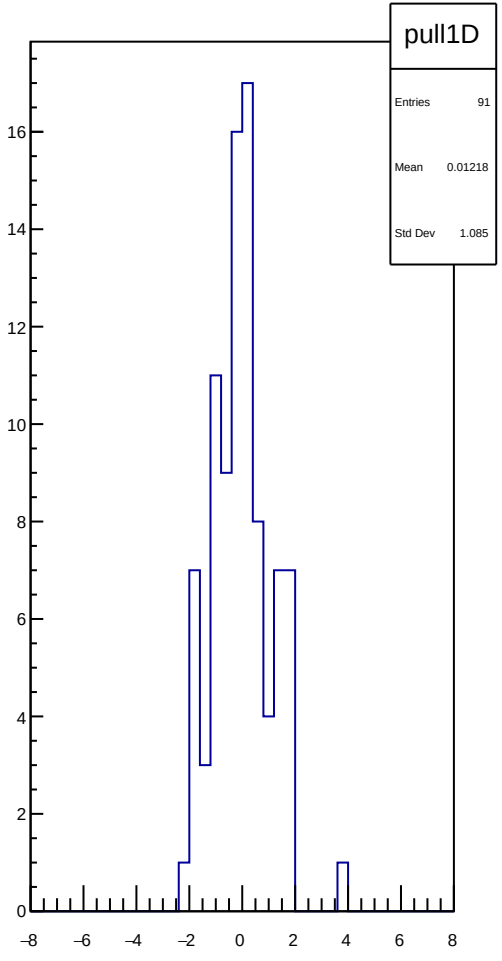

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.363e+04 / 90
p0 36.43 ± 0.02782
65
60
55
50
45
40
35
30

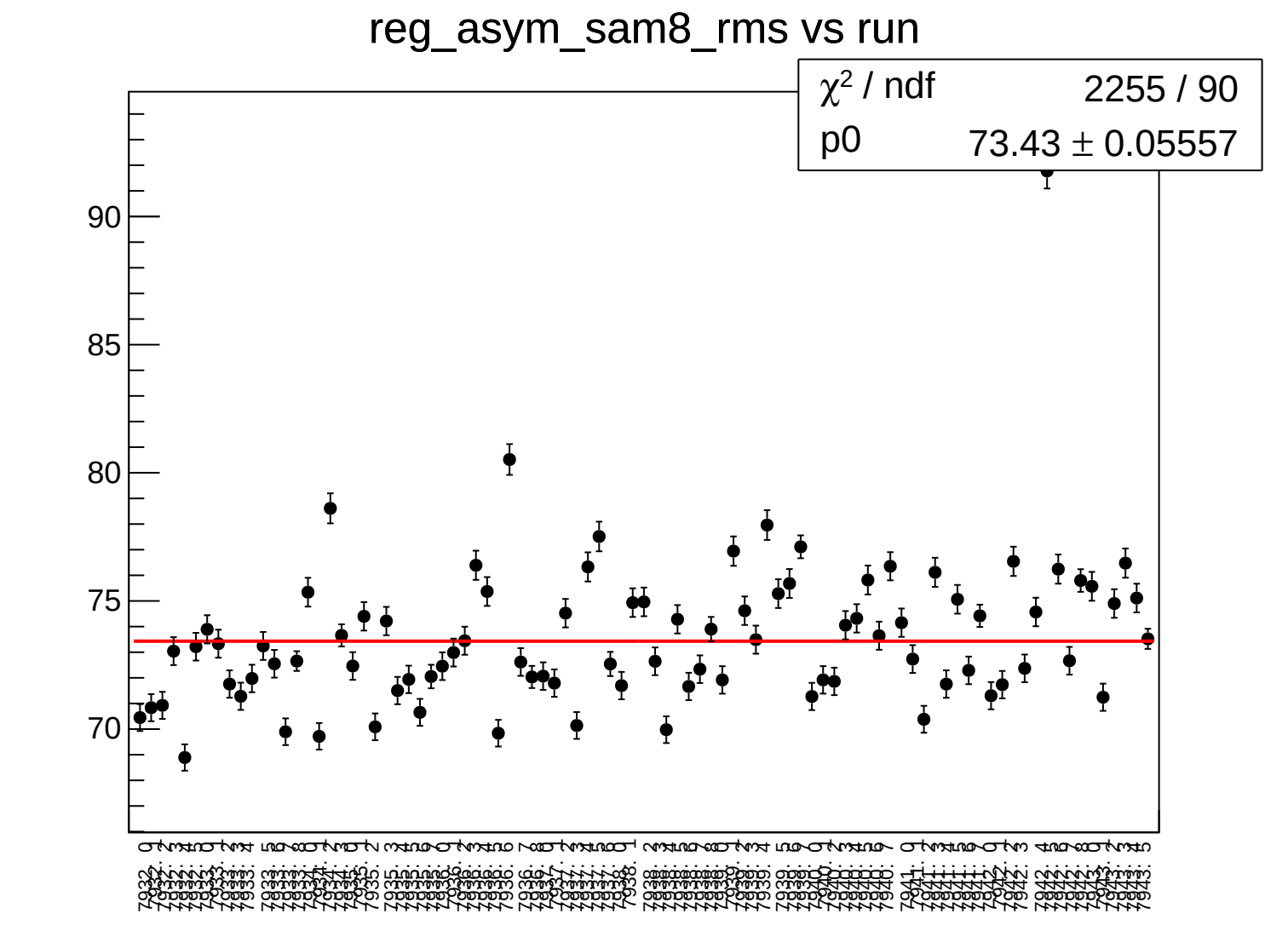

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.8 / 90
p0 1.771e−13 ± 1.522e−13
15
10
5
0
−5
−10
pull
Entries 91
Mean 26.09
Std Dev 0
2
1
0
−1
−2

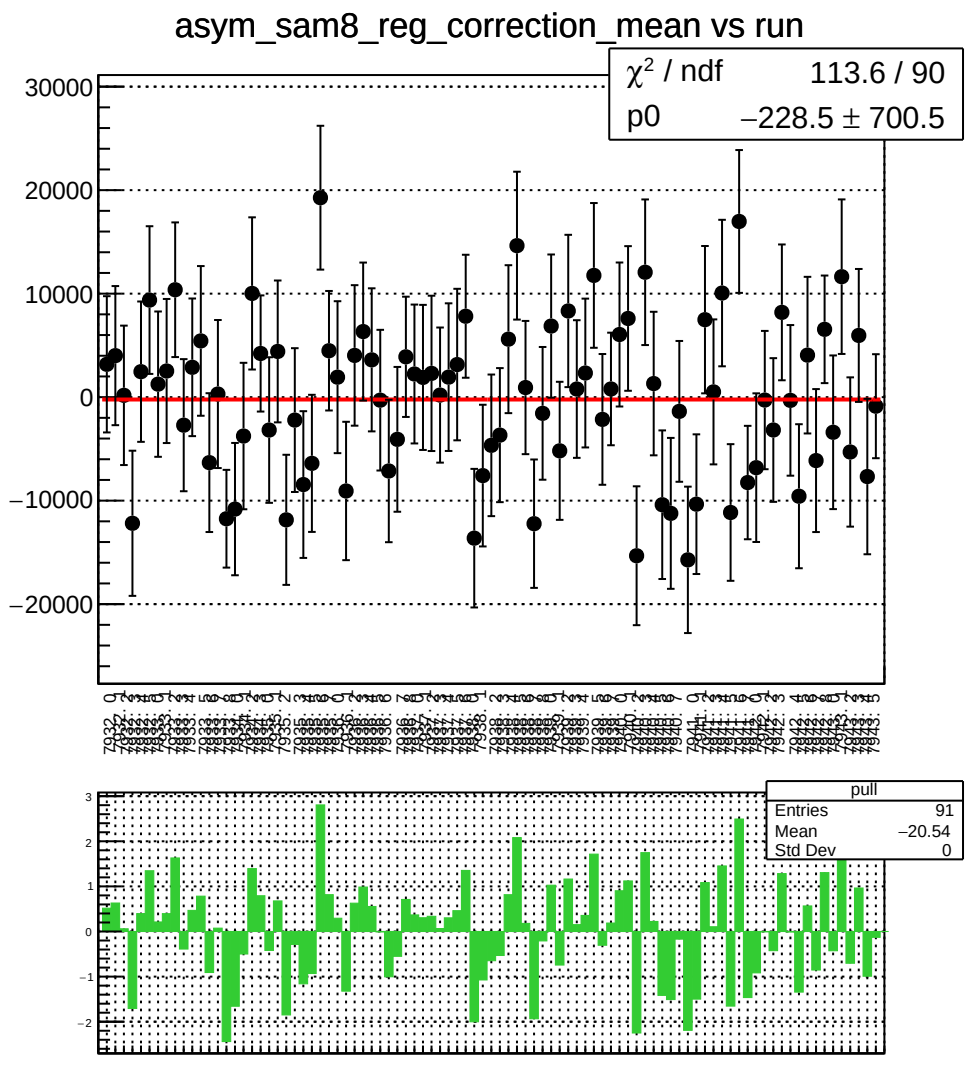

pull1D
Entries 91
Mean −0.02437
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

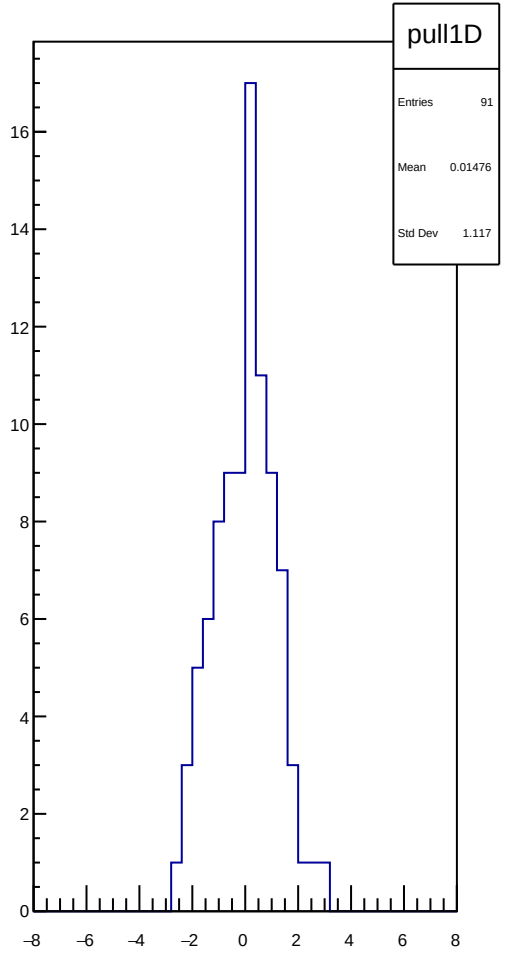

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.018e+05 / 90
p0 1.101e−10 ± 1.076e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

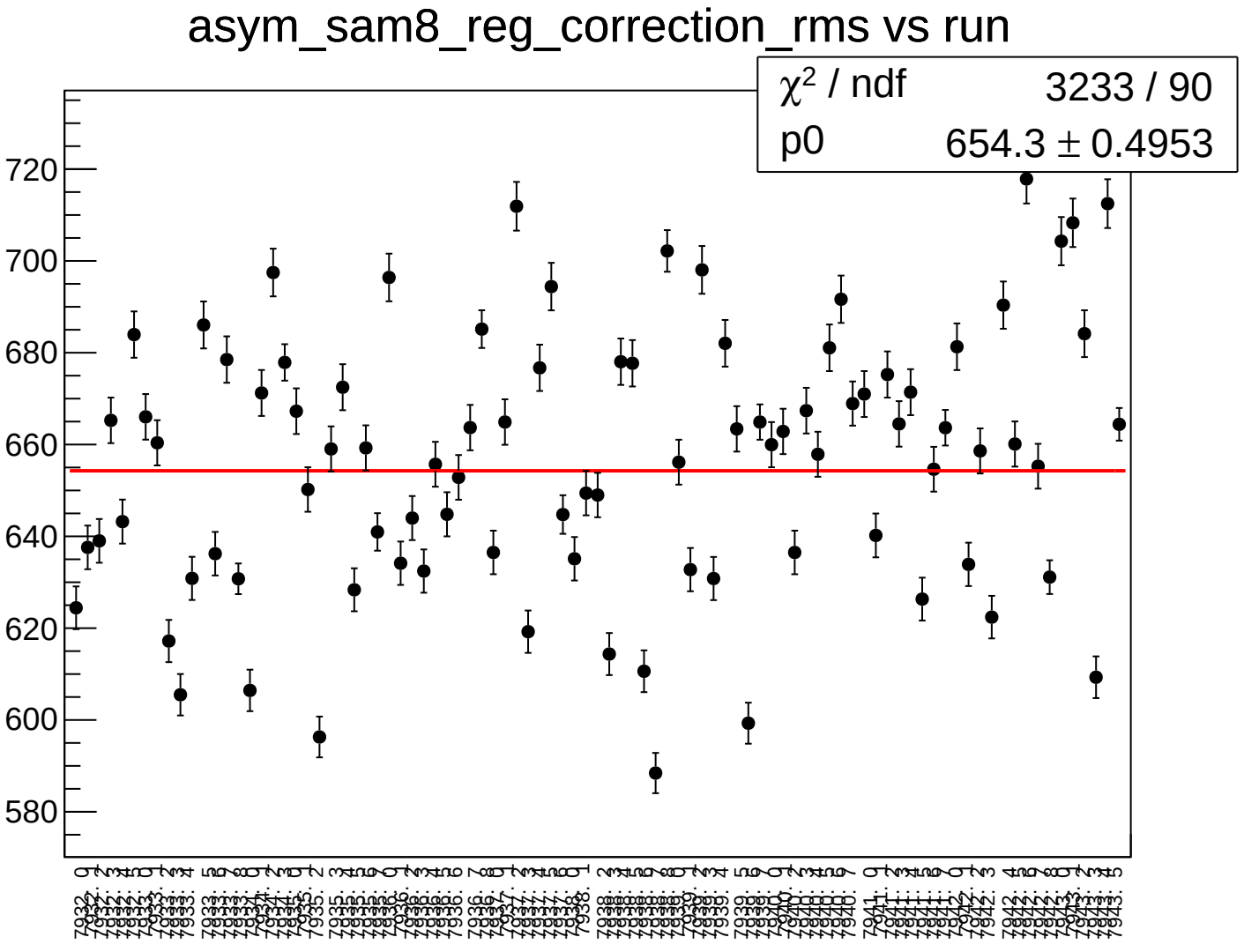

reg_asym_sam8_mean vs run
χ² / ndf 107.1 / 90
p0 234 ± 78.59
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 5.475
Std Dev 0
4
3
2
1
0
−1
−2

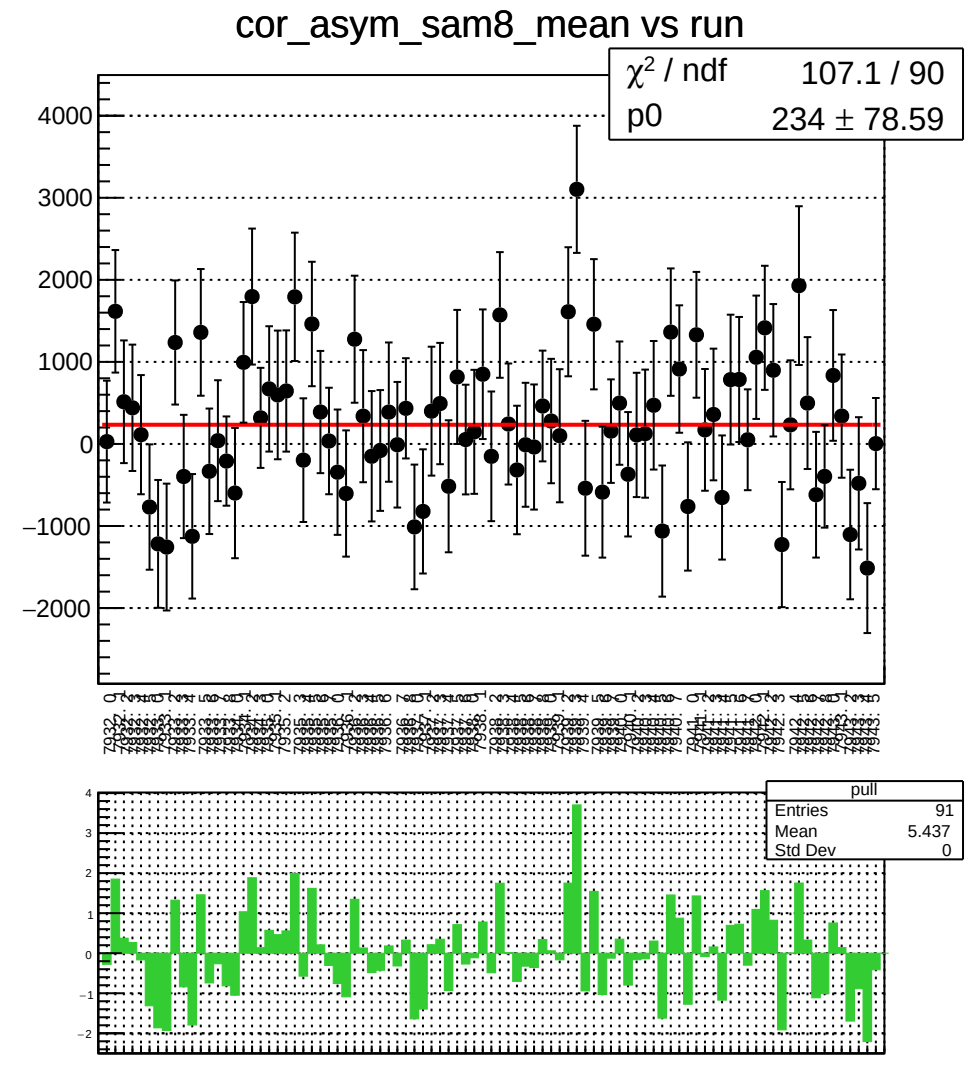

pull1D
Entries 91
Mean 0.01218
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

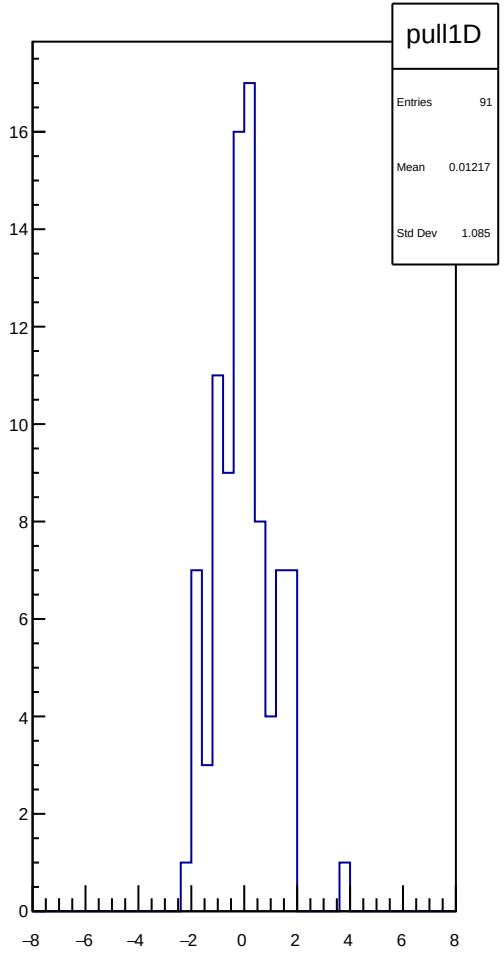

reg_asym_sam8_rms vs run
χ^2 / ndf 2255 / 90
p0 73.43 ± 0.05557
90
85
80
75
70

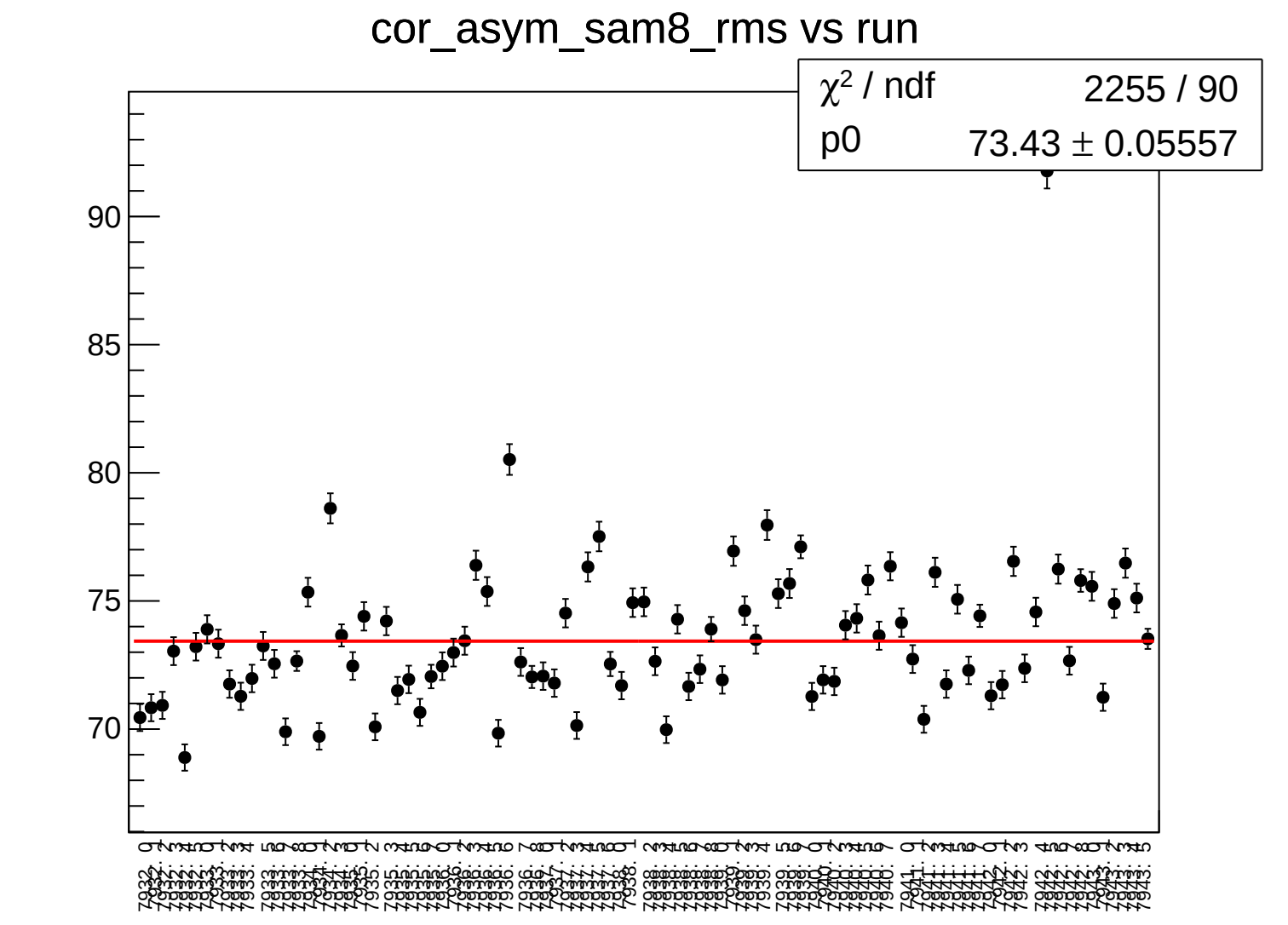

asym_sam8_reg_correction_mean vs run
χ² / ndf 113.6 / 90
p0 −228.5 ± 700.5
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −20.54
Std Dev 0
3
2
1
0
−1
−2

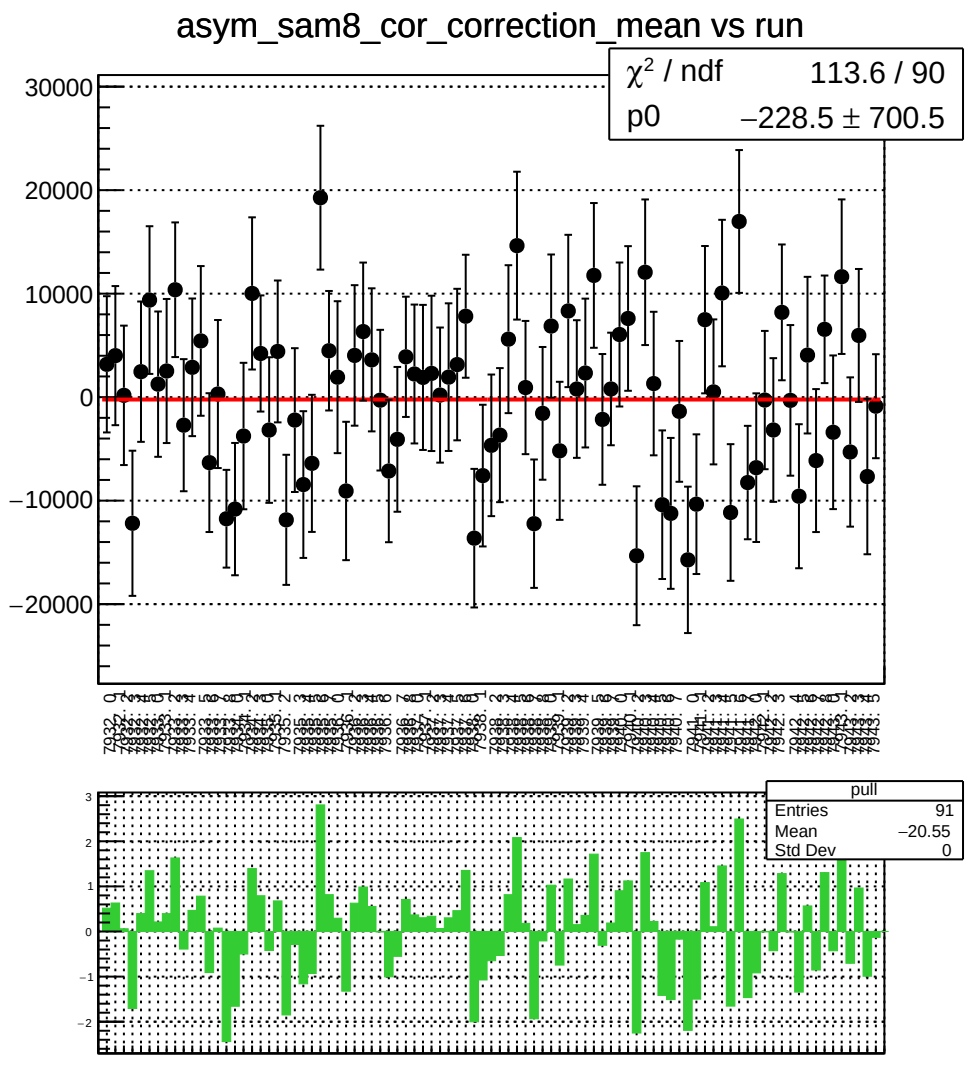

pull1D
Entries 91
Mean 0.01476
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

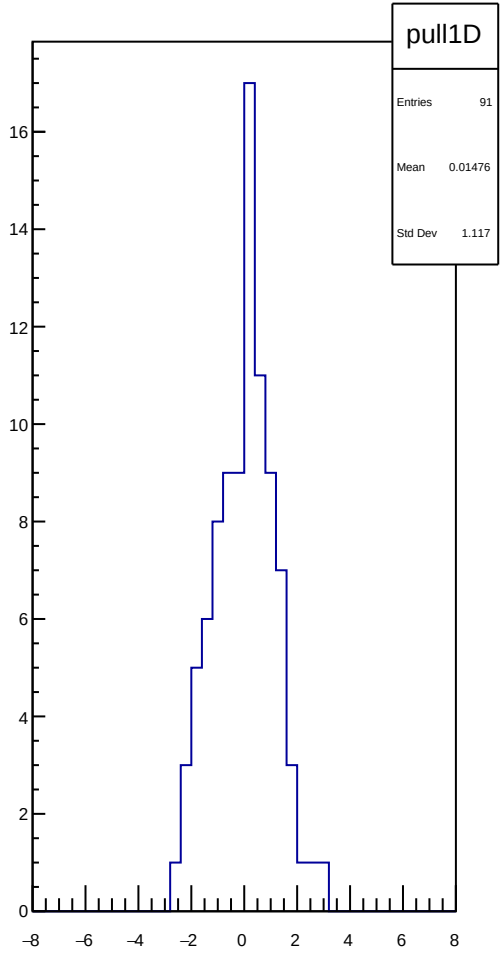

asym_sam8_reg_correction_rms vs run
χ² / ndf 3233 / 90
p0 654.3 ± 0.4953
720
700
680
660
640
620
600
580

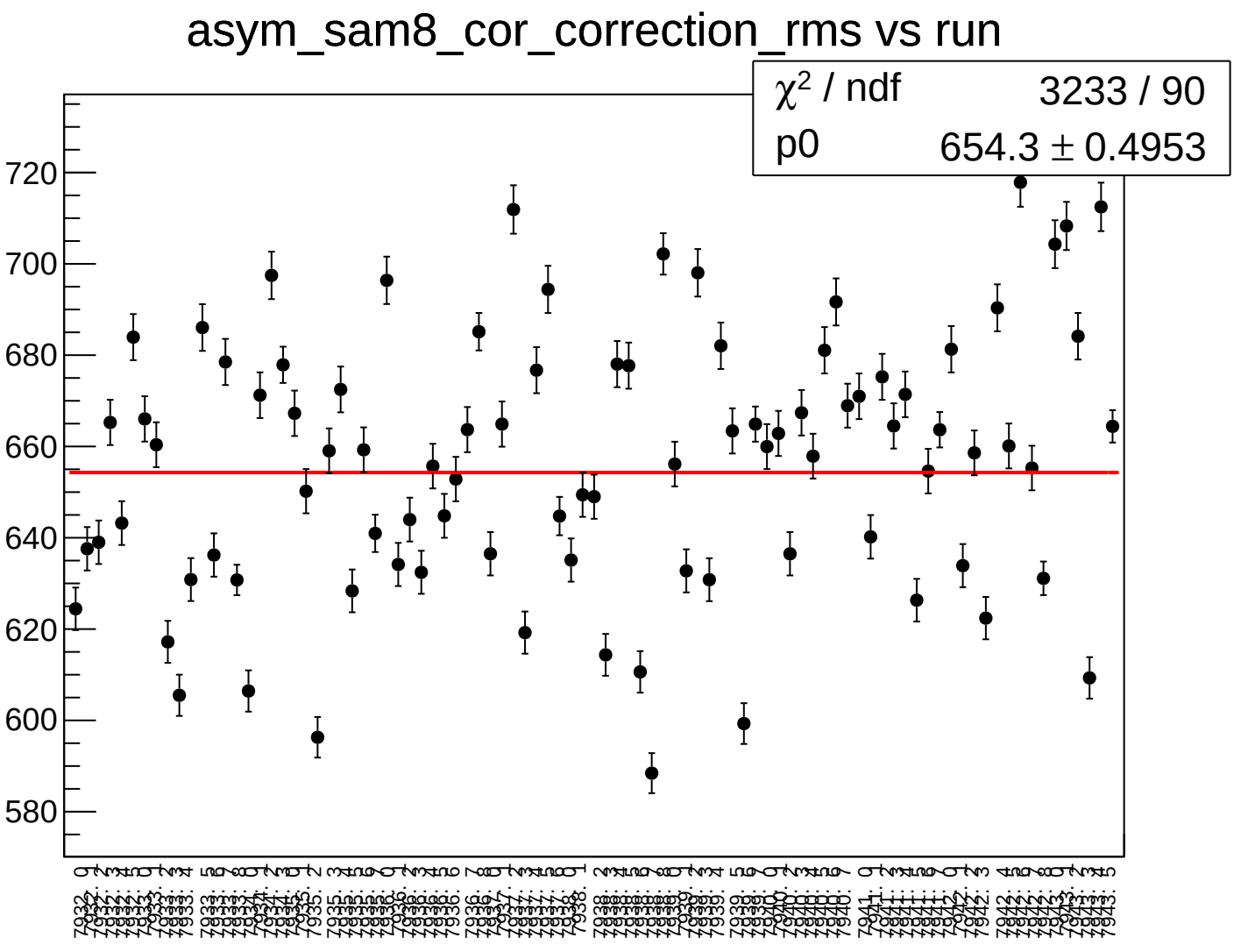

cor_asym_sam8_mean vs run
χ² / ndf 107.1 / 90
p0 234 ± 78.59
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 5.437
Std Dev 0
4
3
2
1
0
−1
−2

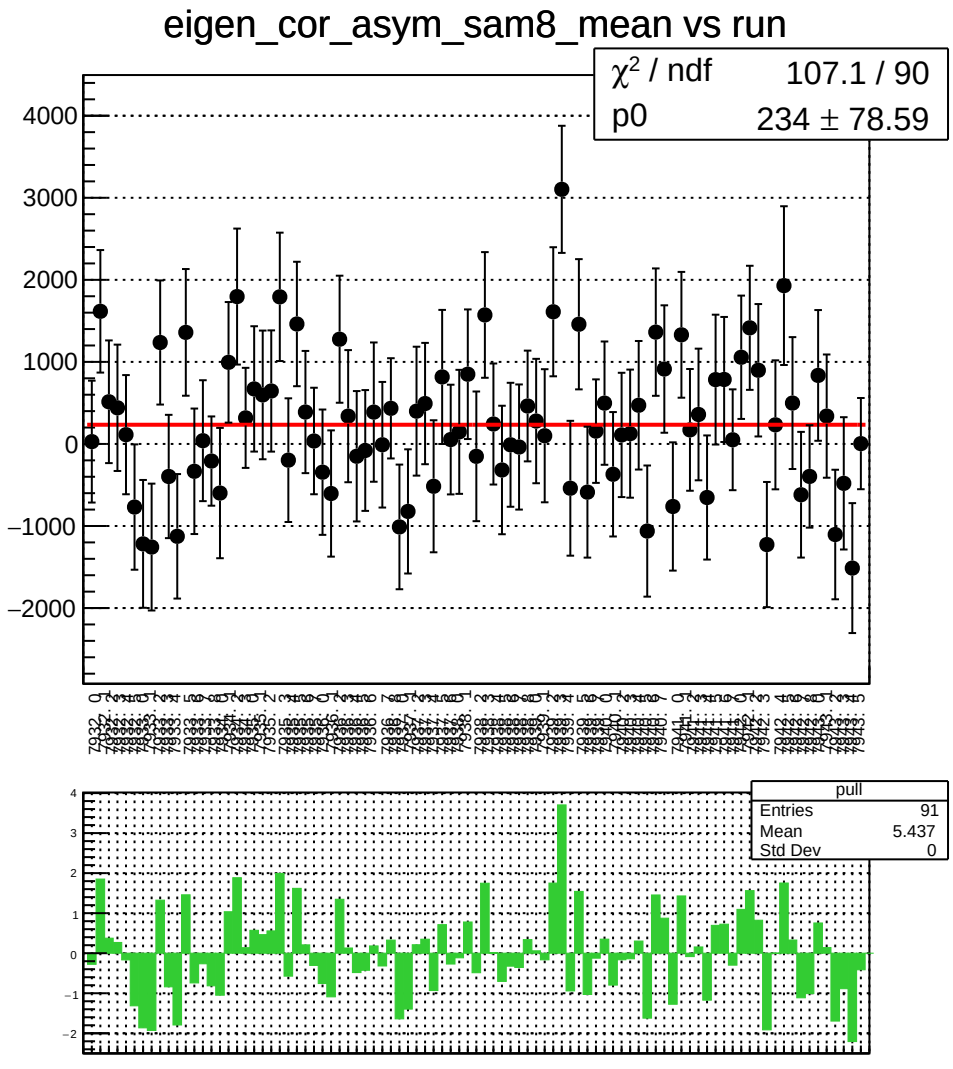

pull1D
Entries 91
Mean 0.01217
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

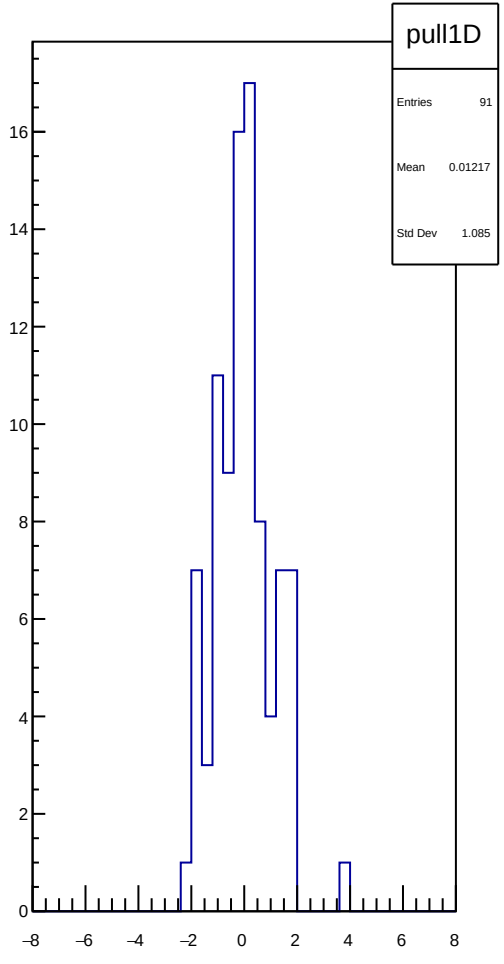

cor_asym_sam8_rms vs run
χ^2 / ndf 2255 / 90
p0 73.43 ± 0.05557
90
85
80
75
70

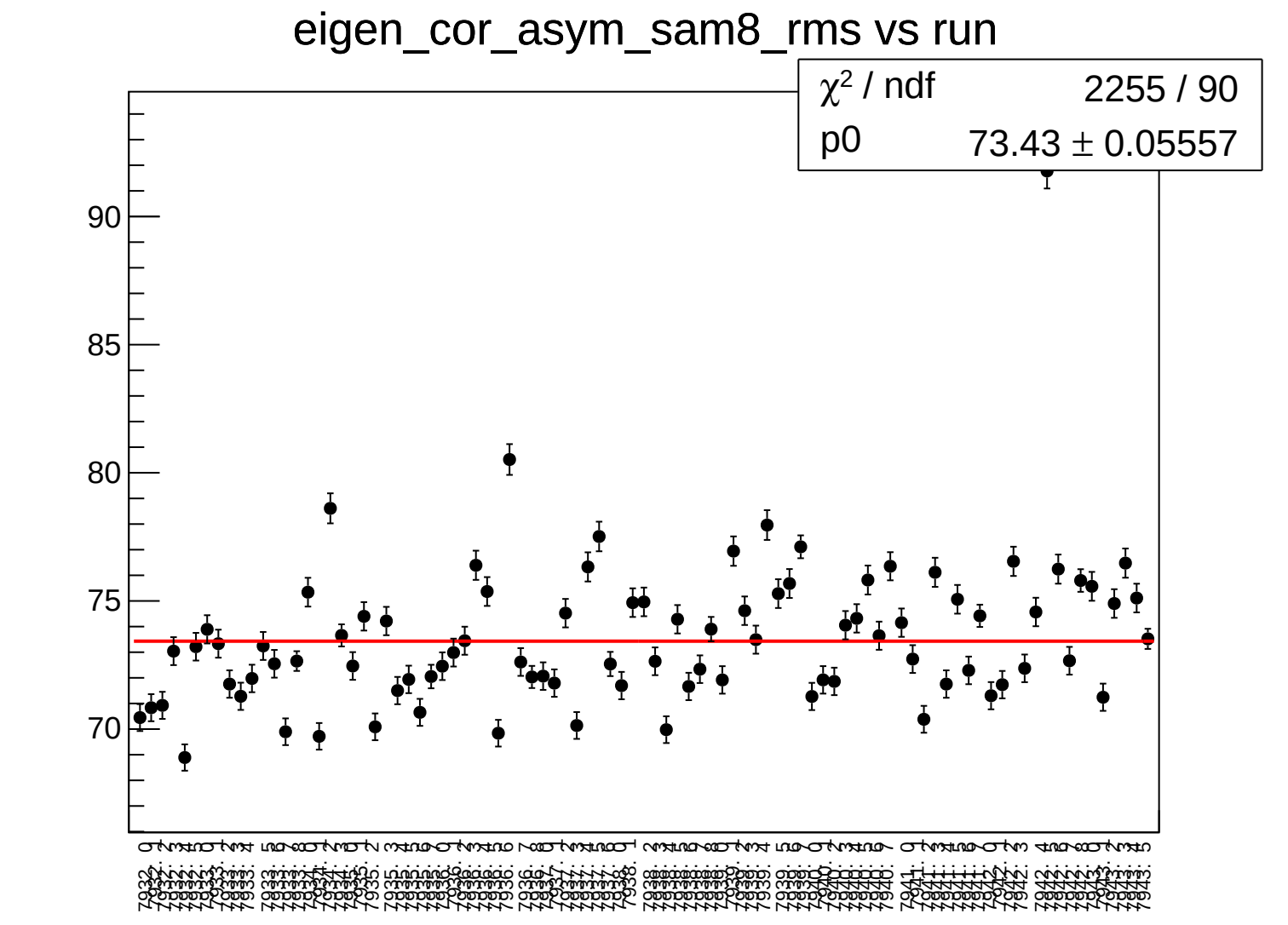

asym_sam8_cor_correction_mean vs run
χ² / ndf 113.6 / 90
p0 −228.5 ± 700.5
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −20.55
Std Dev 0
3
2
1
0
−1
−2

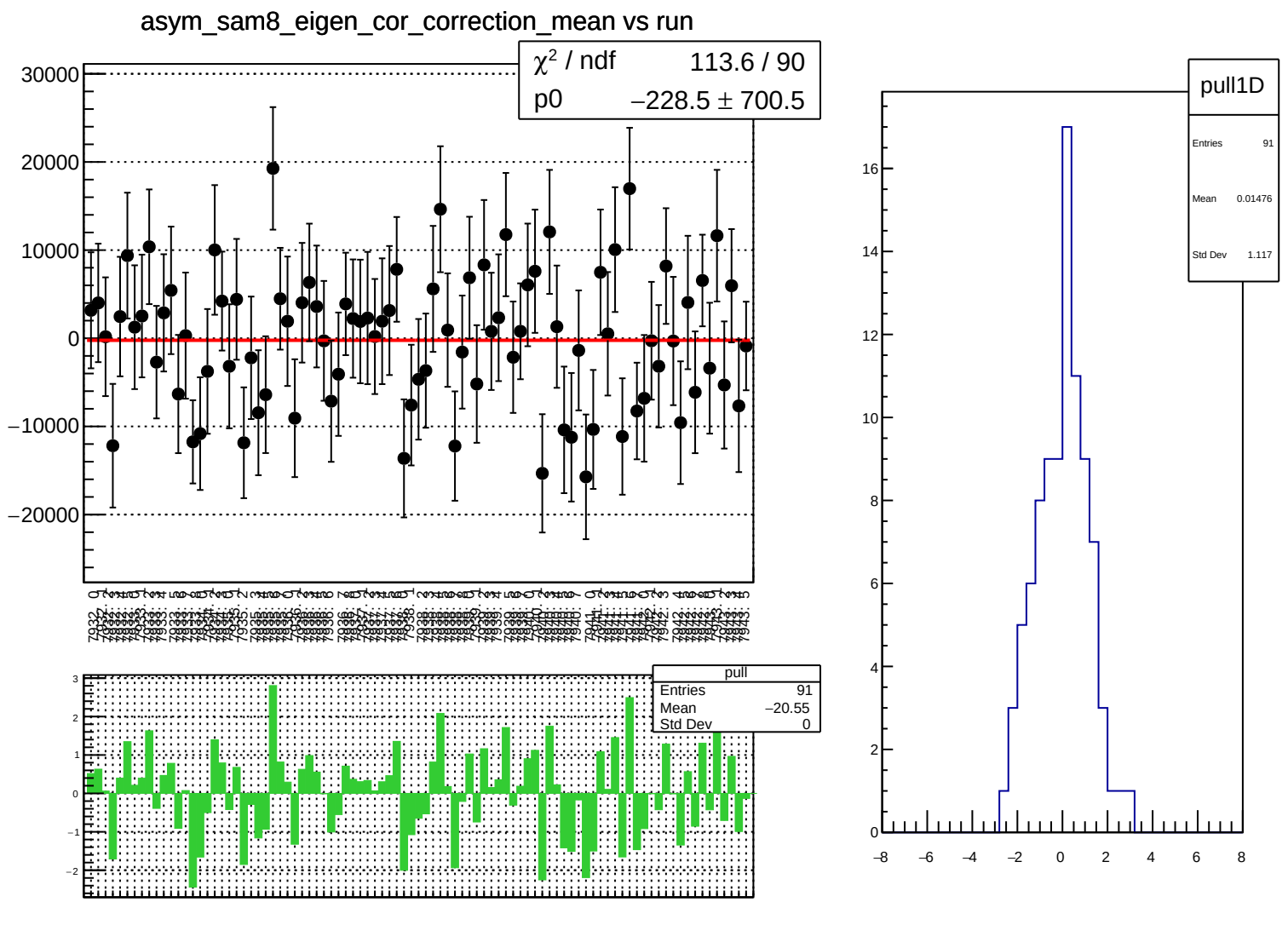

pull1D
Entries 91
Mean 0.01476
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

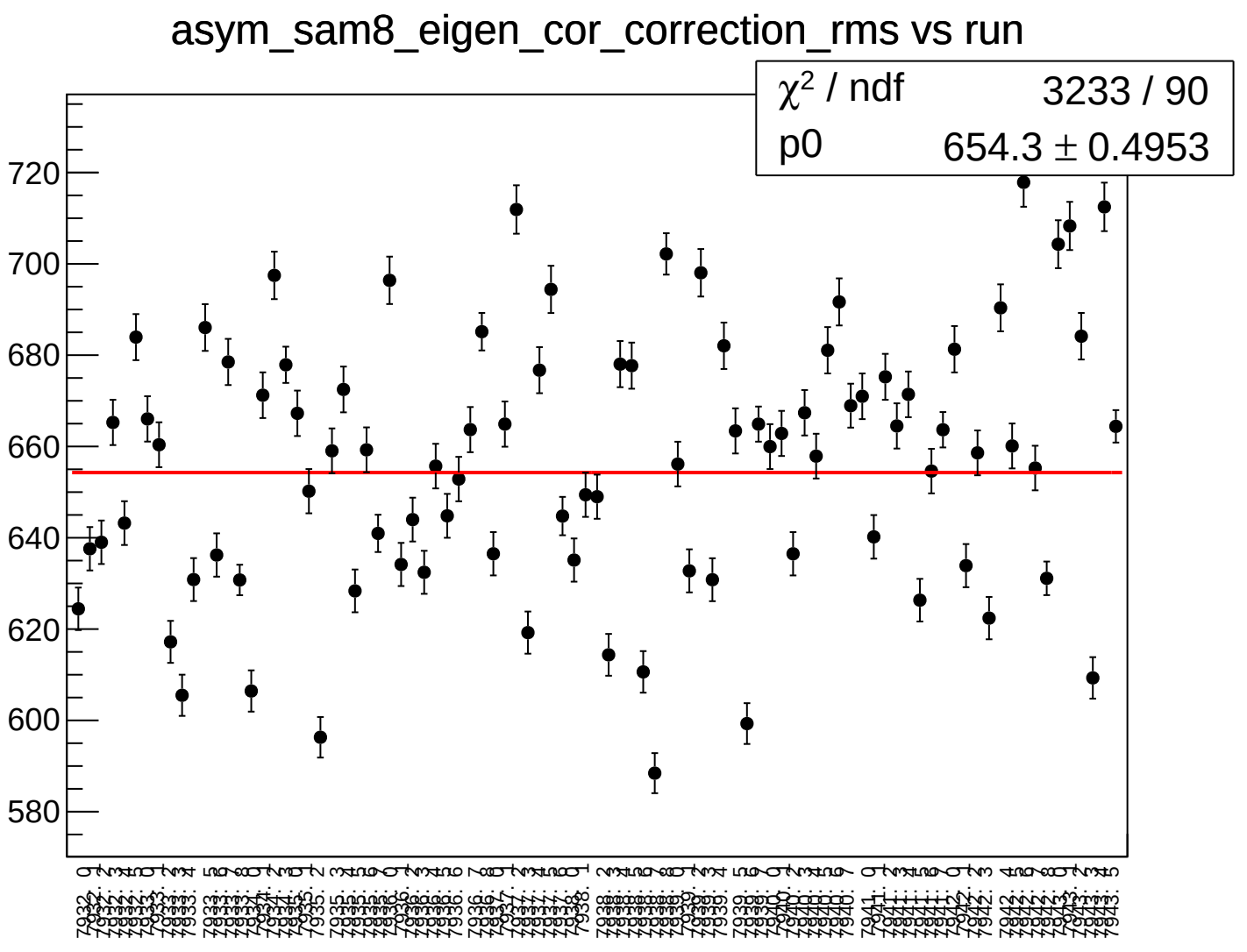

asym_sam8_cor_correction_rms vs run
χ² / ndf 3233 / 90
p0 654.3 ± 0.4953
720
700
680
660
640
620
600
580

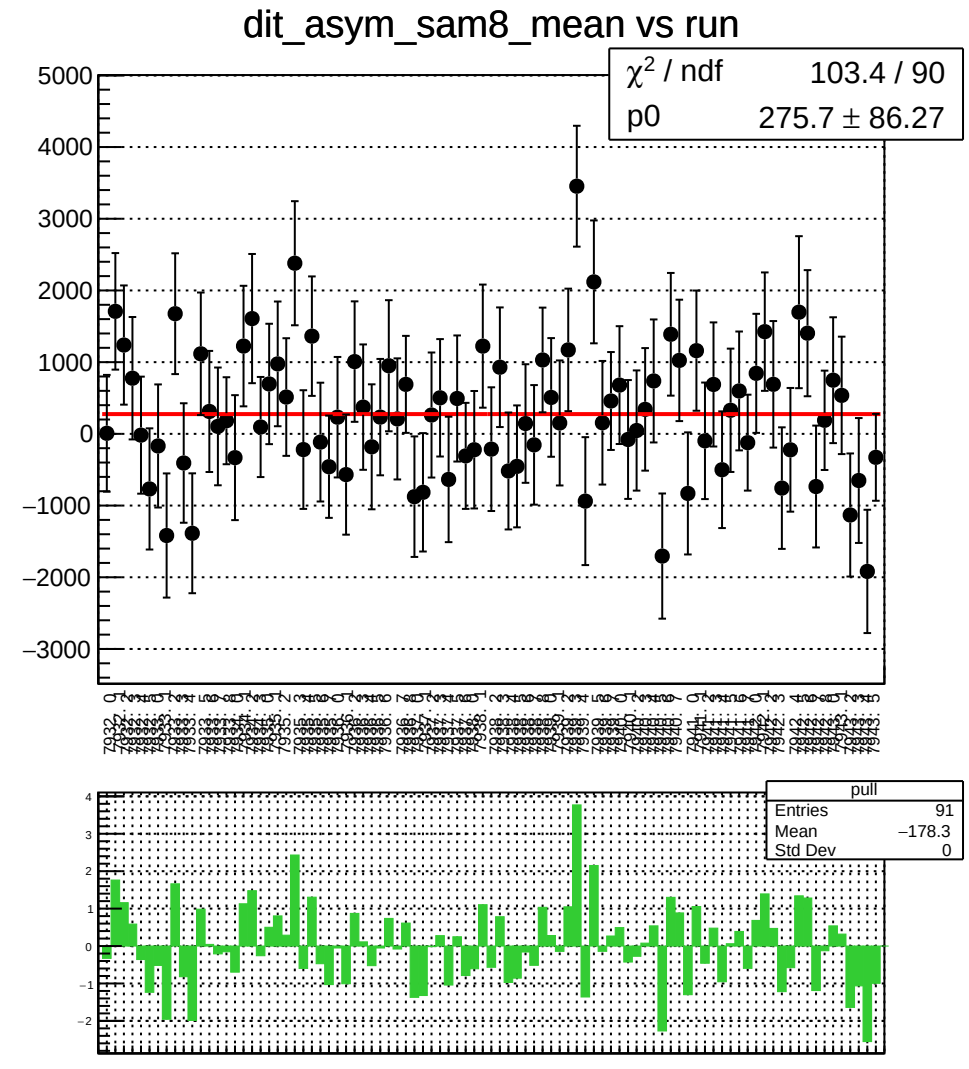

eigen_cor_asym_sam8_mean vs run
χ² / ndf 107.1 / 90
p0 234 ± 78.59
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 5.437
Std Dev 0
4
3
2
1
0
−1
−2

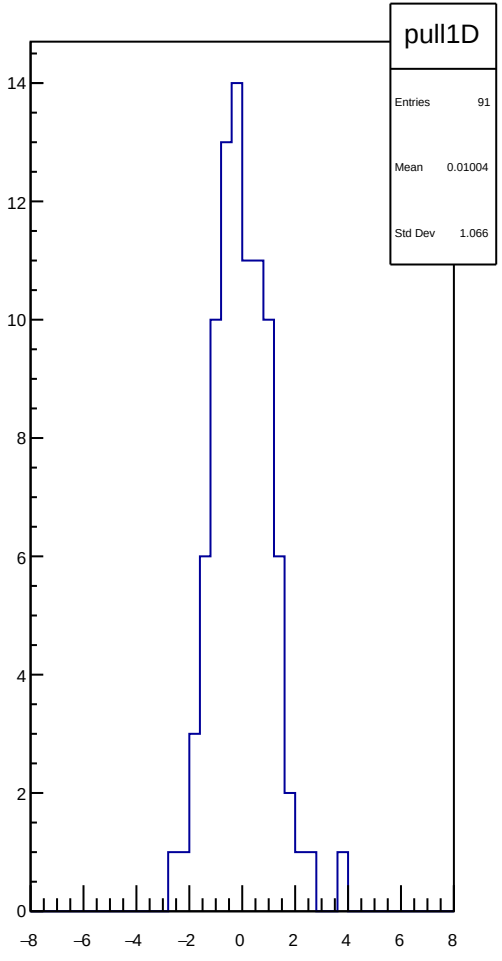

pull1D
Entries 91
Mean 0.01217
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

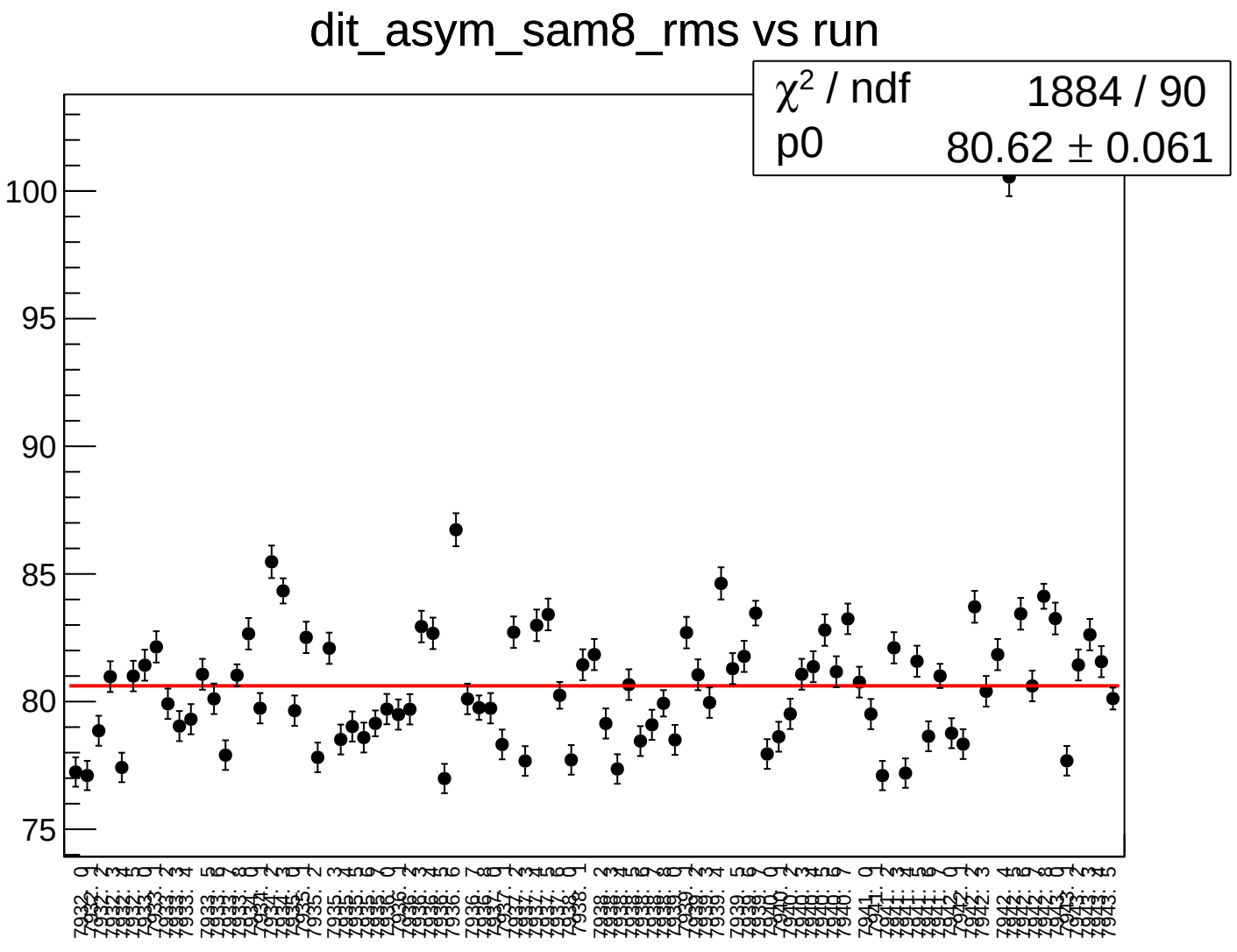

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 2255 / 90
p0 73.43 ± 0.05557
90
85
80
75
70

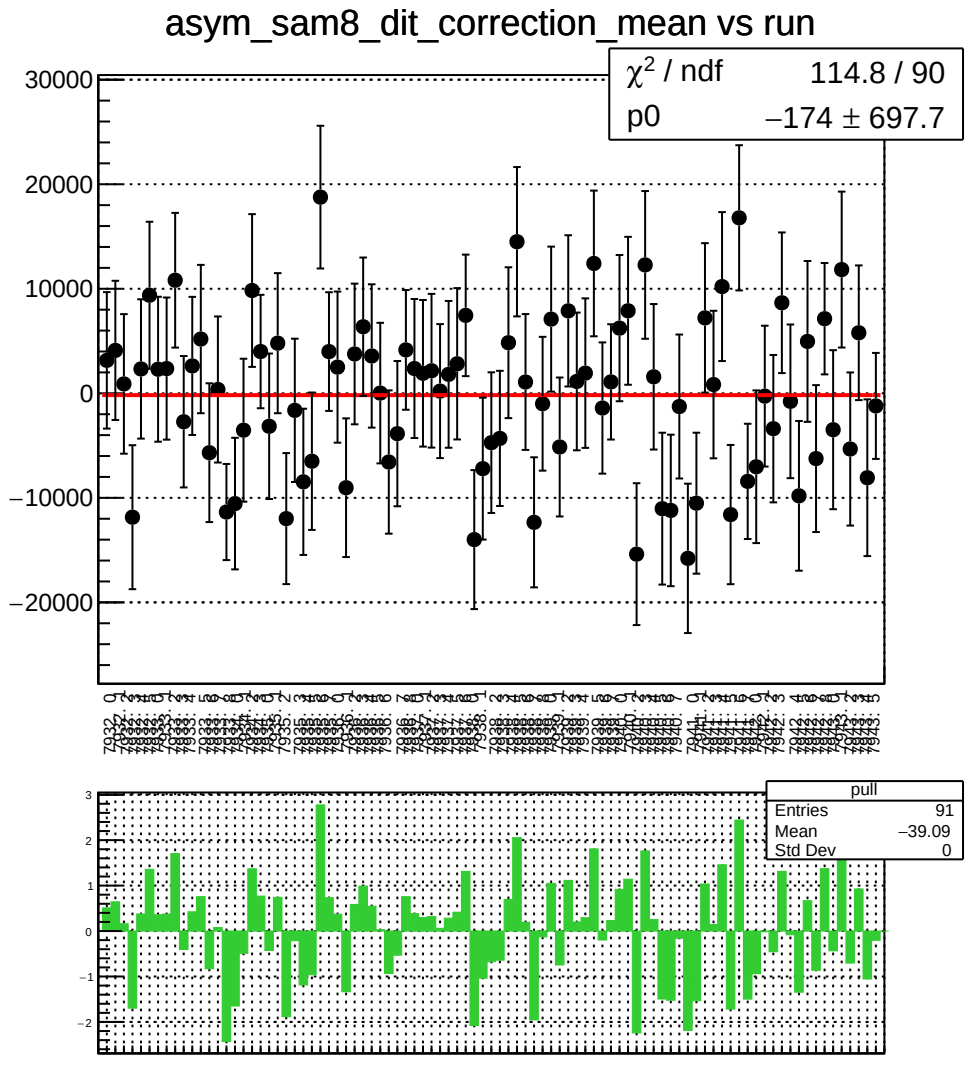

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 113.6 / 90
p0 −228.5 ± 700.5
pull
Entries 91
Mean −20.55
Std Dev 0
pull1D
Entries 91
Mean 0.01476
Std Dev 1.117

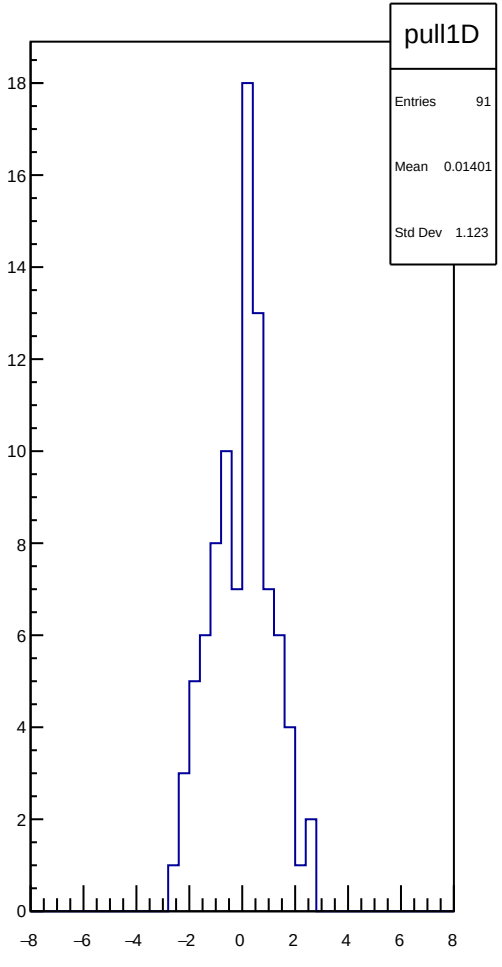

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3233 / 90
p0 654.3 ± 0.4953
720
700
680
660
640
620
600
580

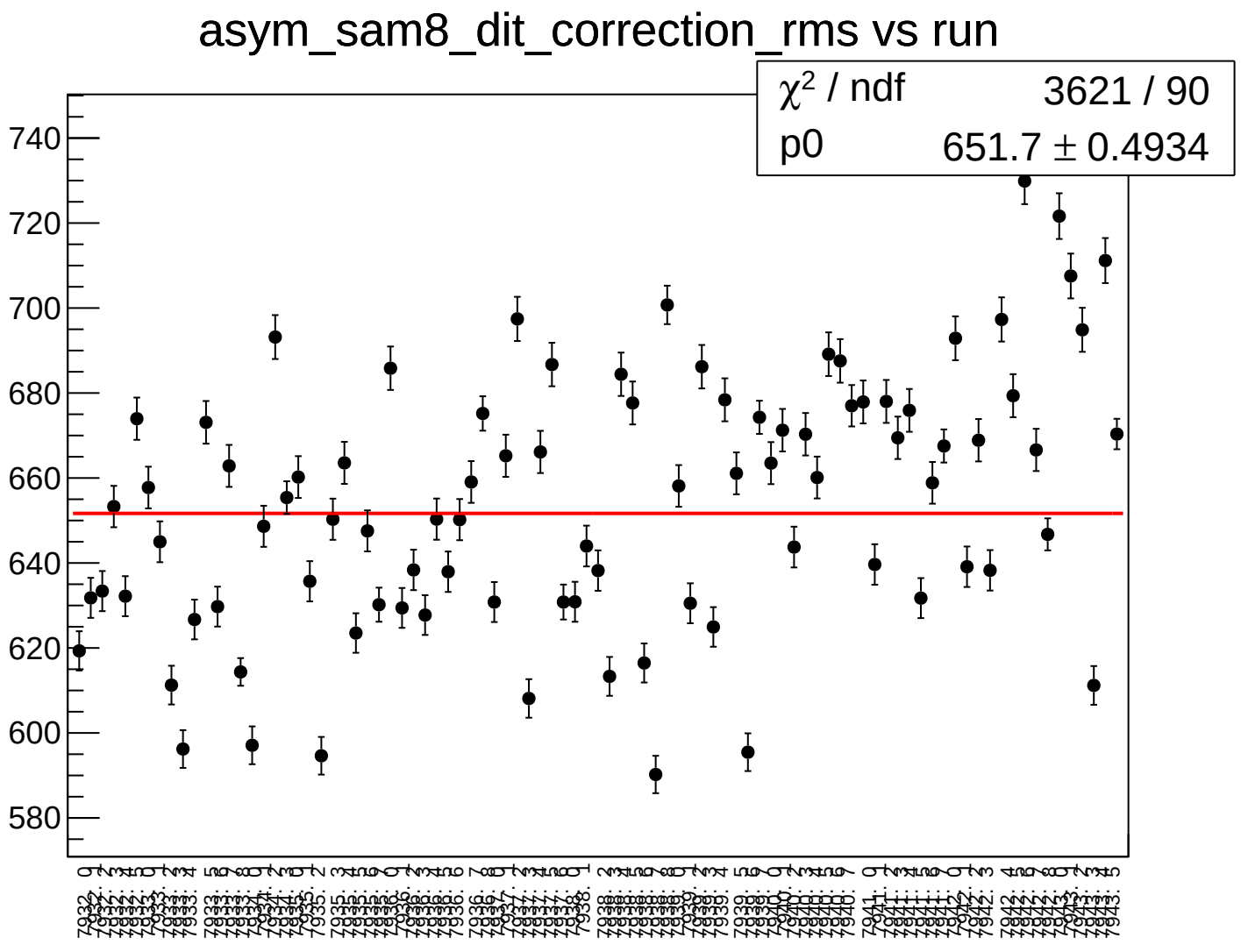

dit_asym_sam8_mean vs run
χ^2 / ndf 103.4 / 90
p0 275.7 ± 86.27
pull
Entries 91
Mean −178.3
Std Dev 0

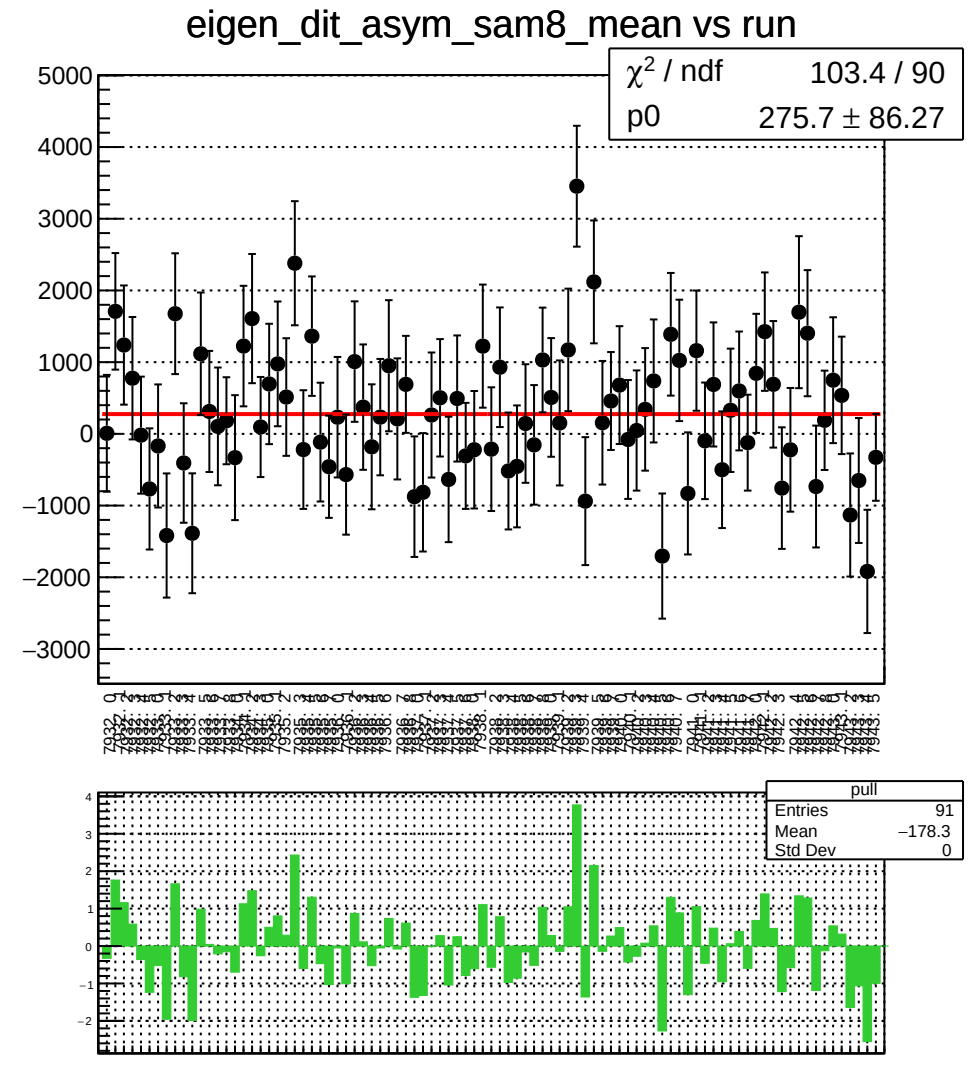

pull1D
Entries 91
Mean 0.01004
Std Dev 1.066

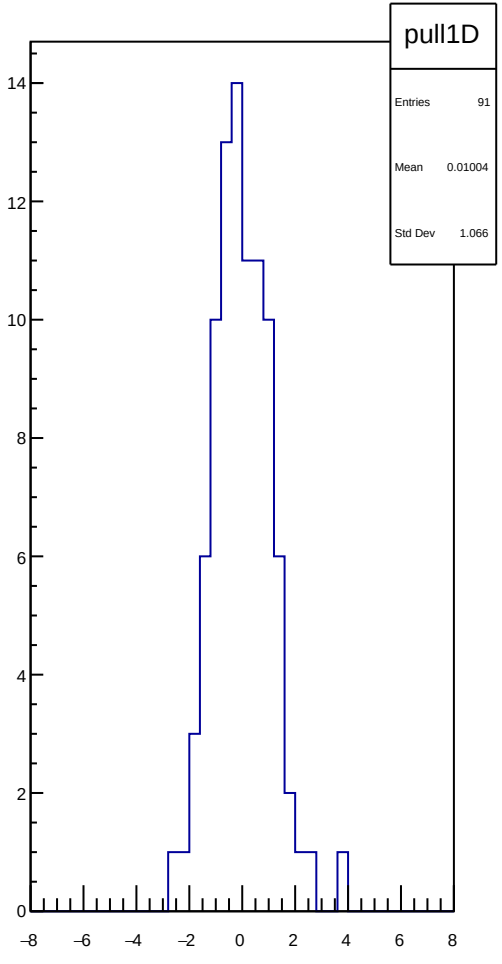

dit_asym_sam8_rms vs run
χ² / ndf 1884 / 90
p0 80.62 ± 0.061
100
95
90
85
80
75

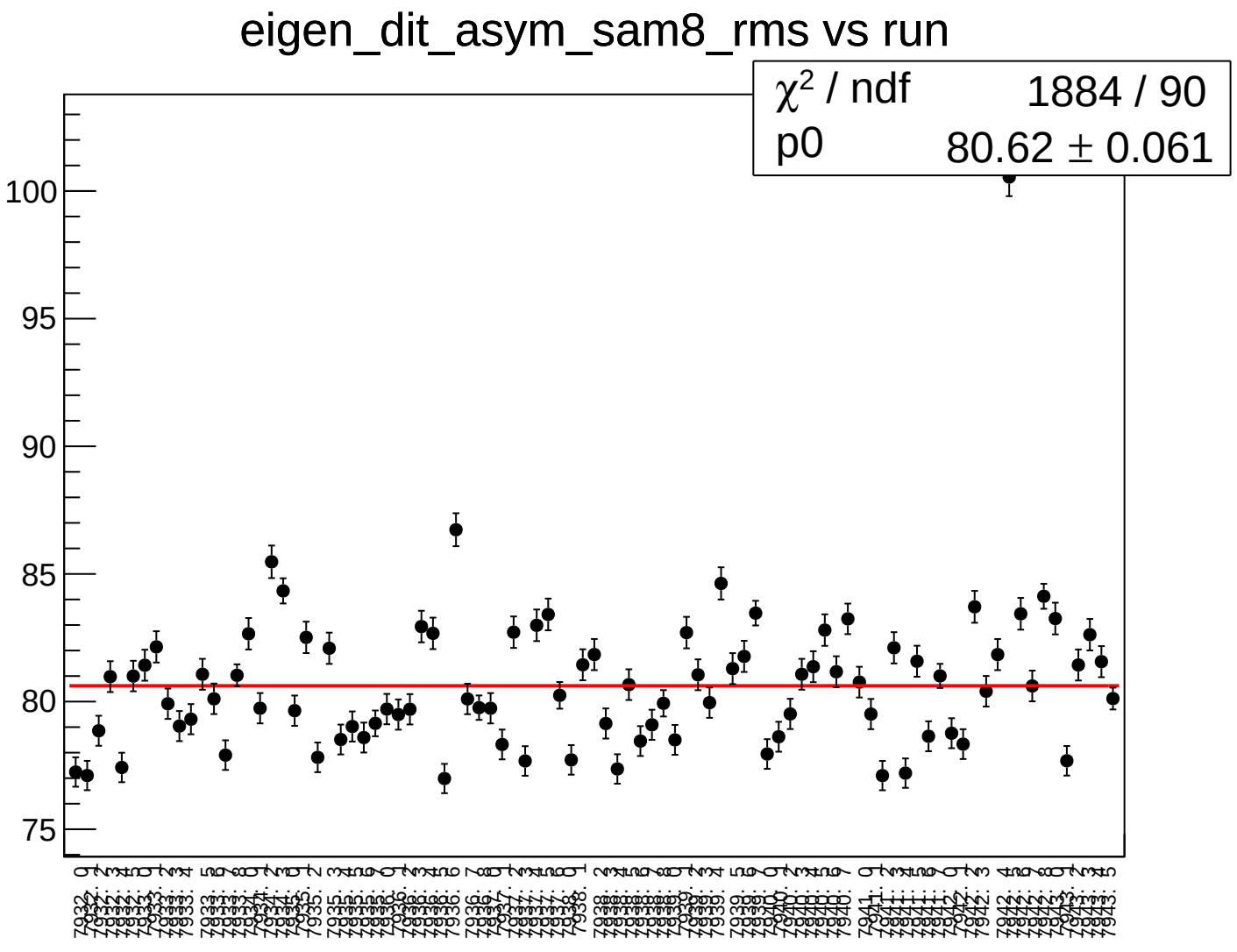

asym_sam8_dit_correction_mean vs run
χ² / ndf 114.8 / 90
p0 −174 ± 697.7
pull
Entries 91
Mean −39.09
Std Dev 0

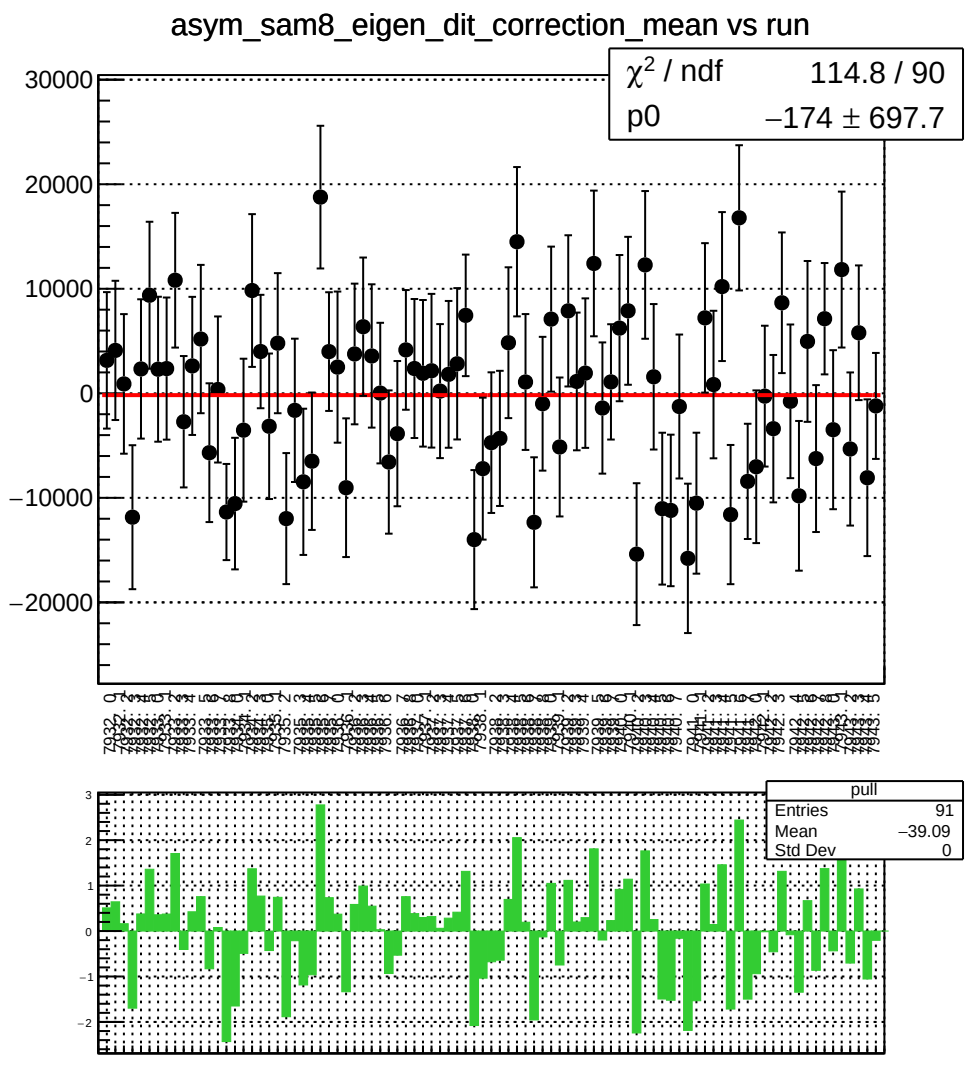

pull1D
Entries 91
Mean 0.01401
Std Dev 1.123

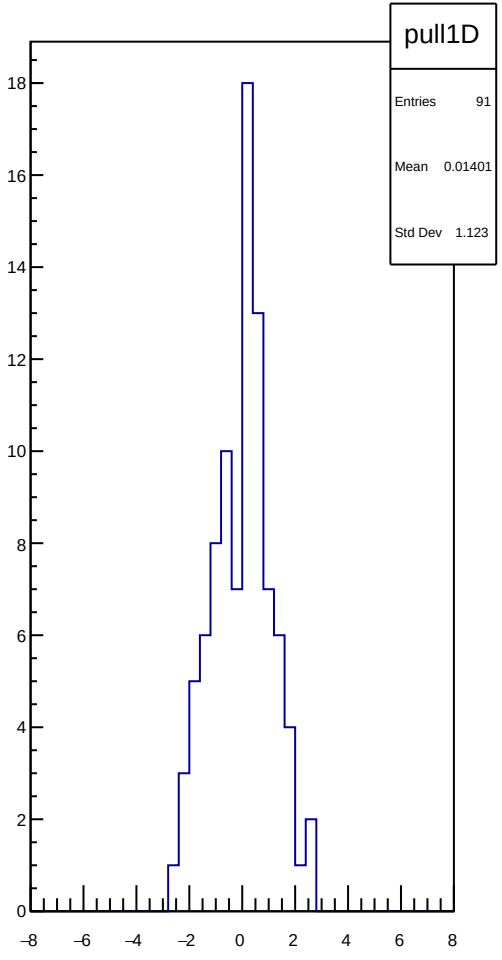

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 3621 / 90
p0 651.7 ± 0.4934
740
720
700
680
660
640
620
600
580

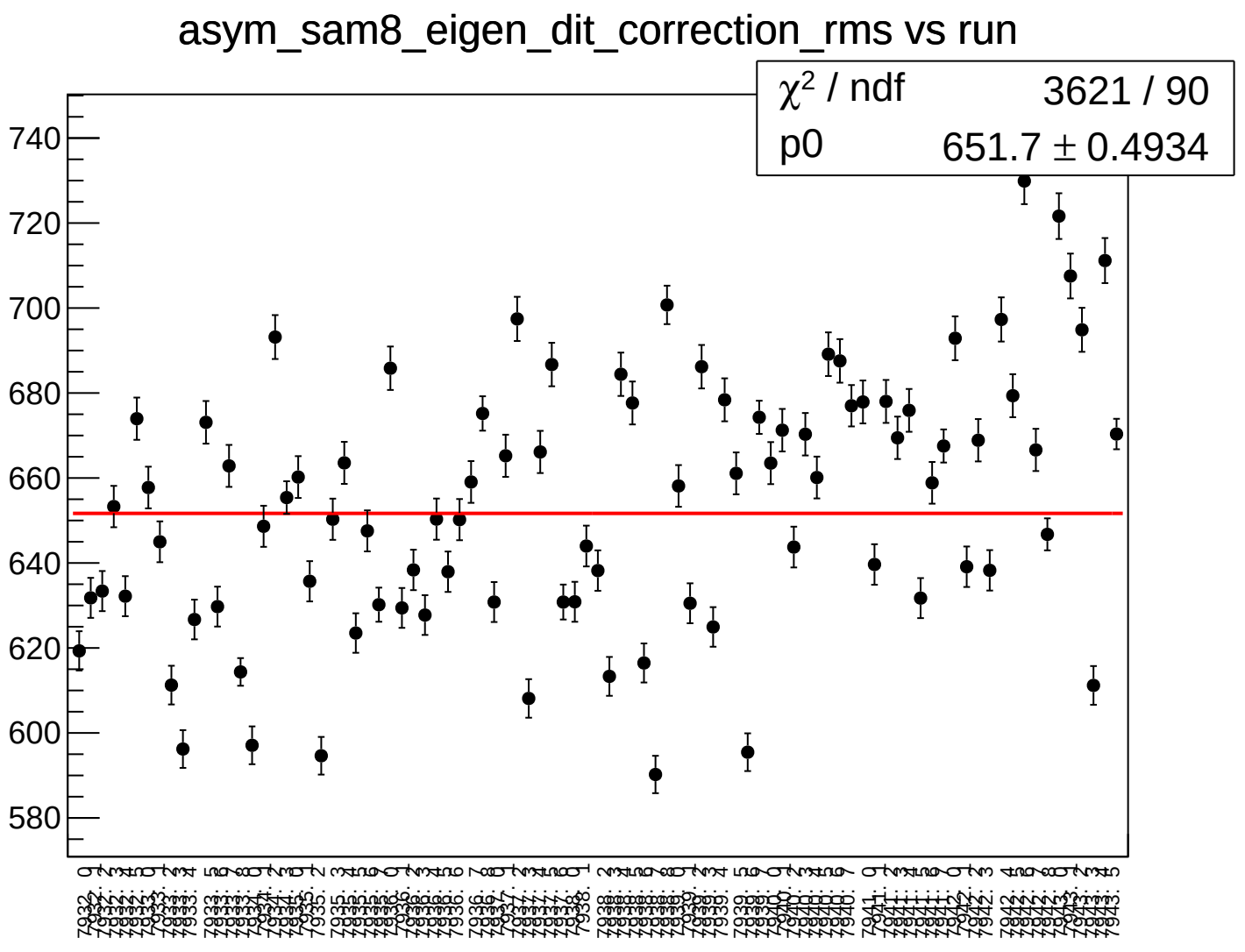

eigen_dit_asym_sam8_mean vs run
χ² / ndf 103.4 / 90
p0 275.7 ± 86.27
pull
Entries 91
Mean −178.3
Std Dev 0

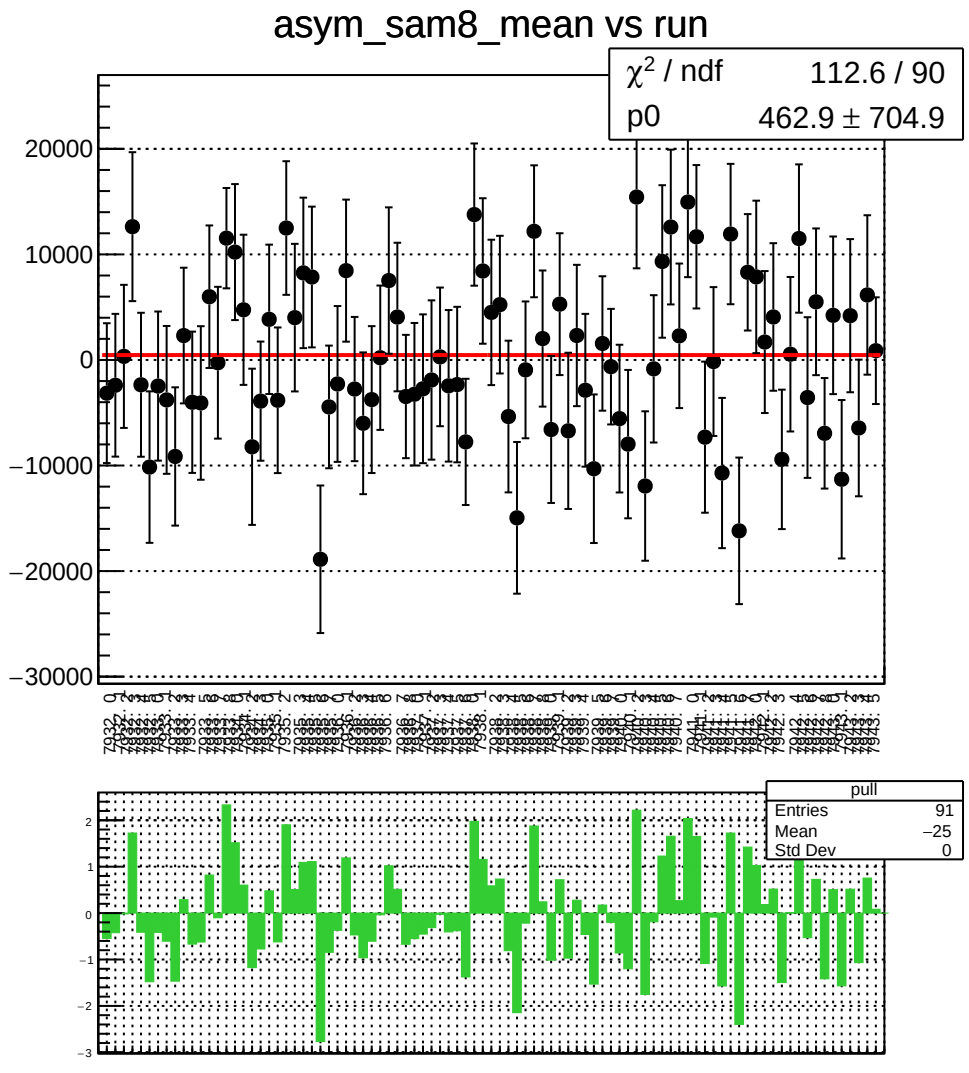

pull1D
Entries 91
Mean 0.01004
Std Dev 1.066

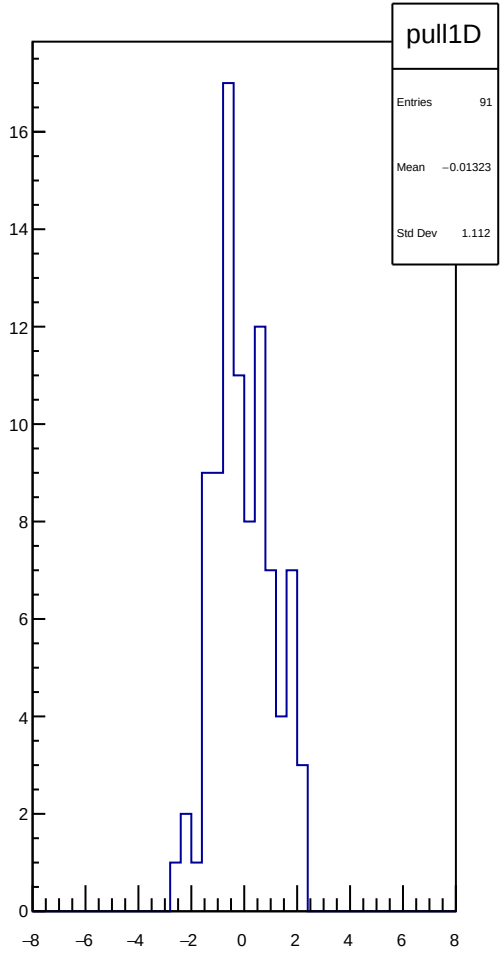

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1884 / 90
p0 80.62 ± 0.061
100
95
90
85
80
75

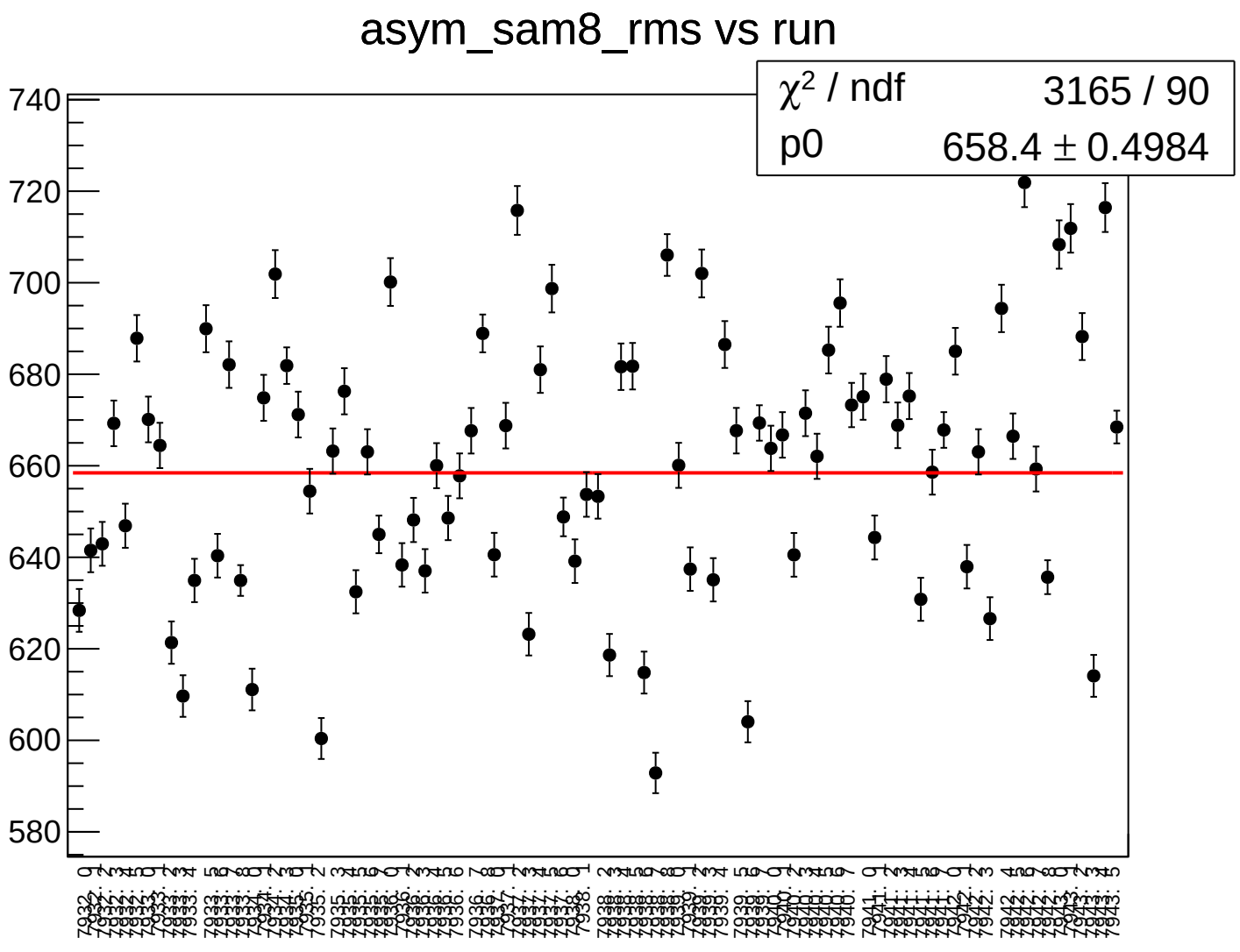

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 114.8 / 90
p0 −174 ± 697.7
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −39.09
Std Dev 0
3
2
1
0
−1
−2

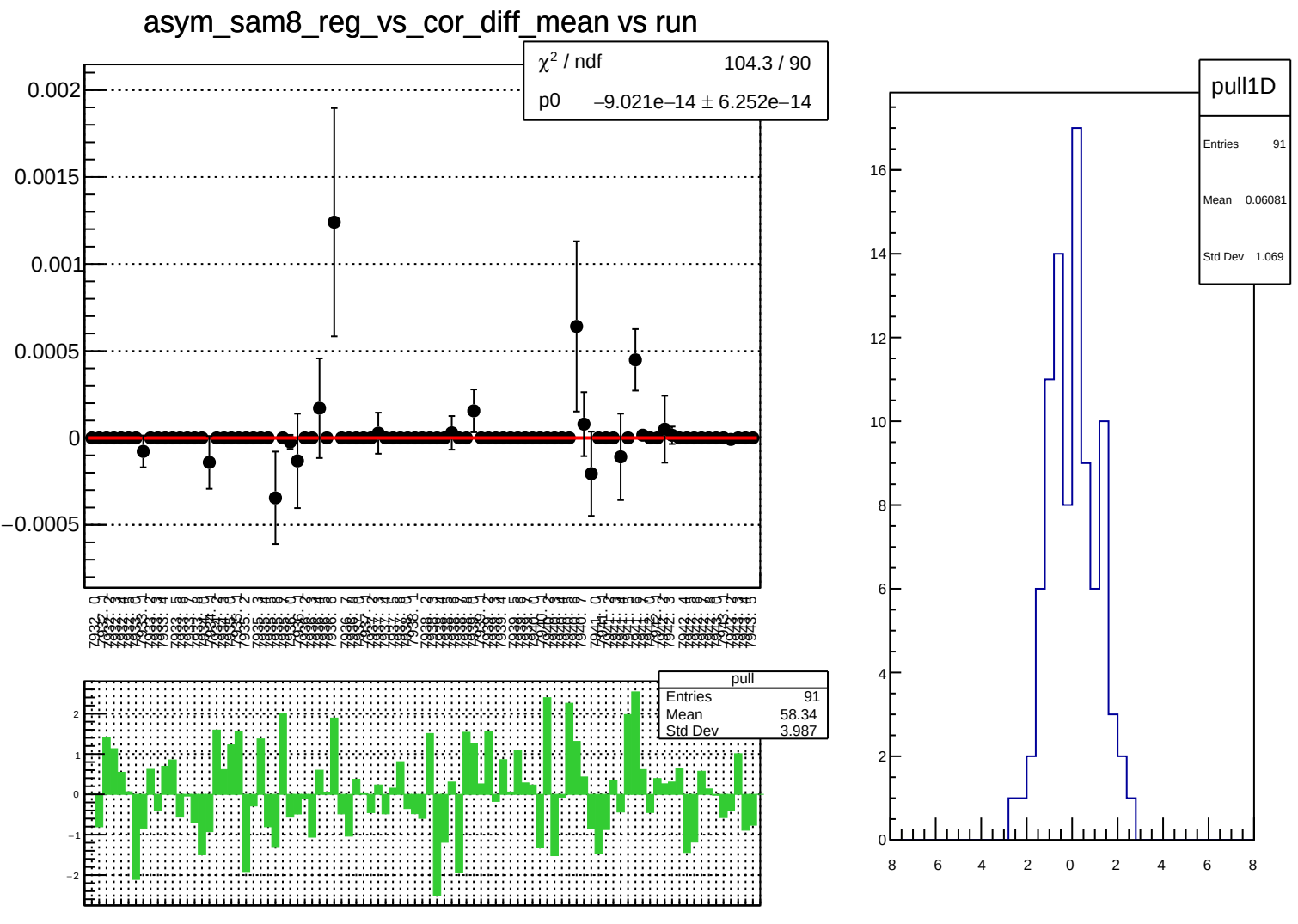

pull1D
Entries 91
Mean 0.01401
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

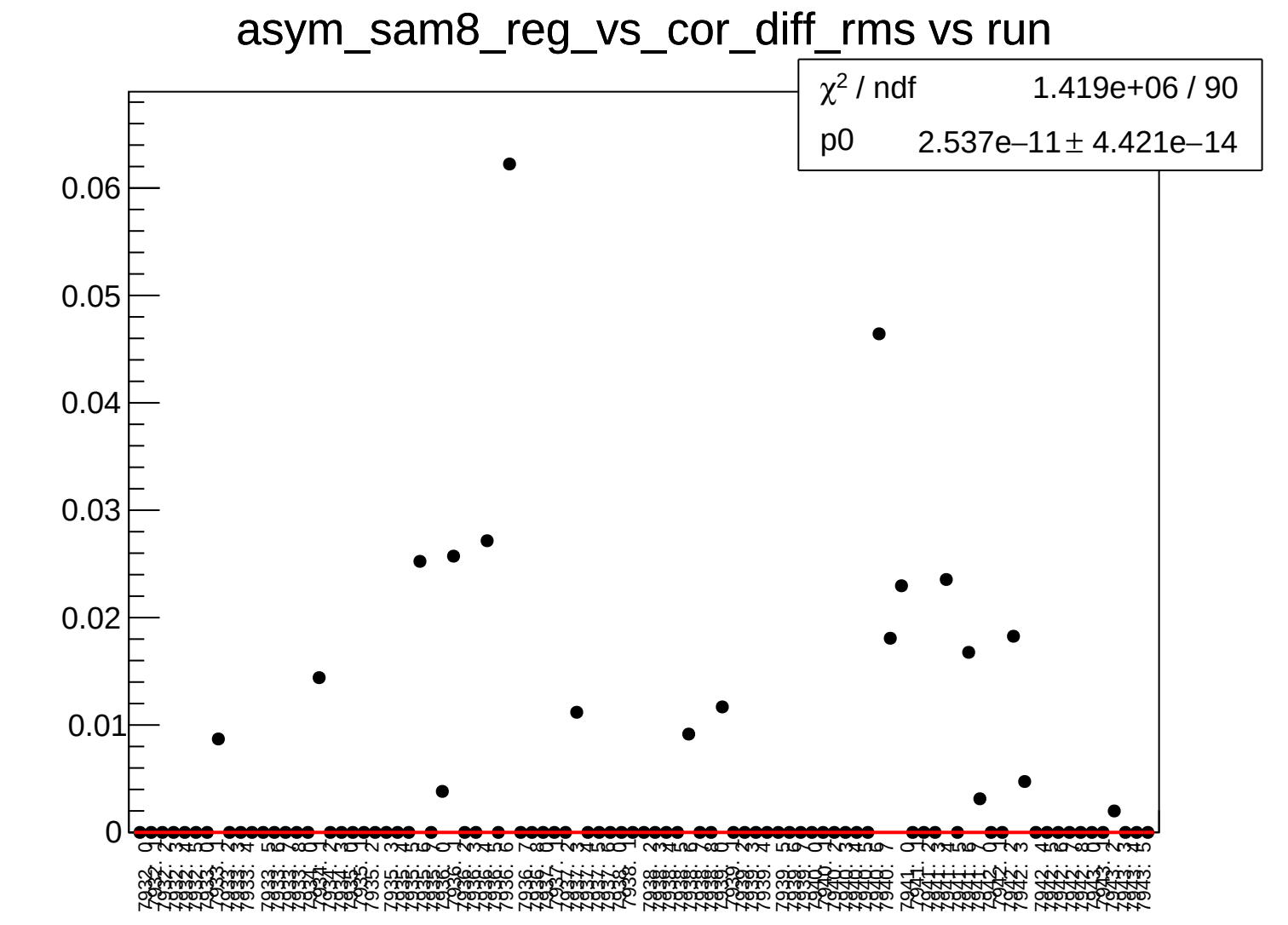

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3621 / 90
p0 651.7 ± 0.4934
740
720
700
680
660
640
620
600
580

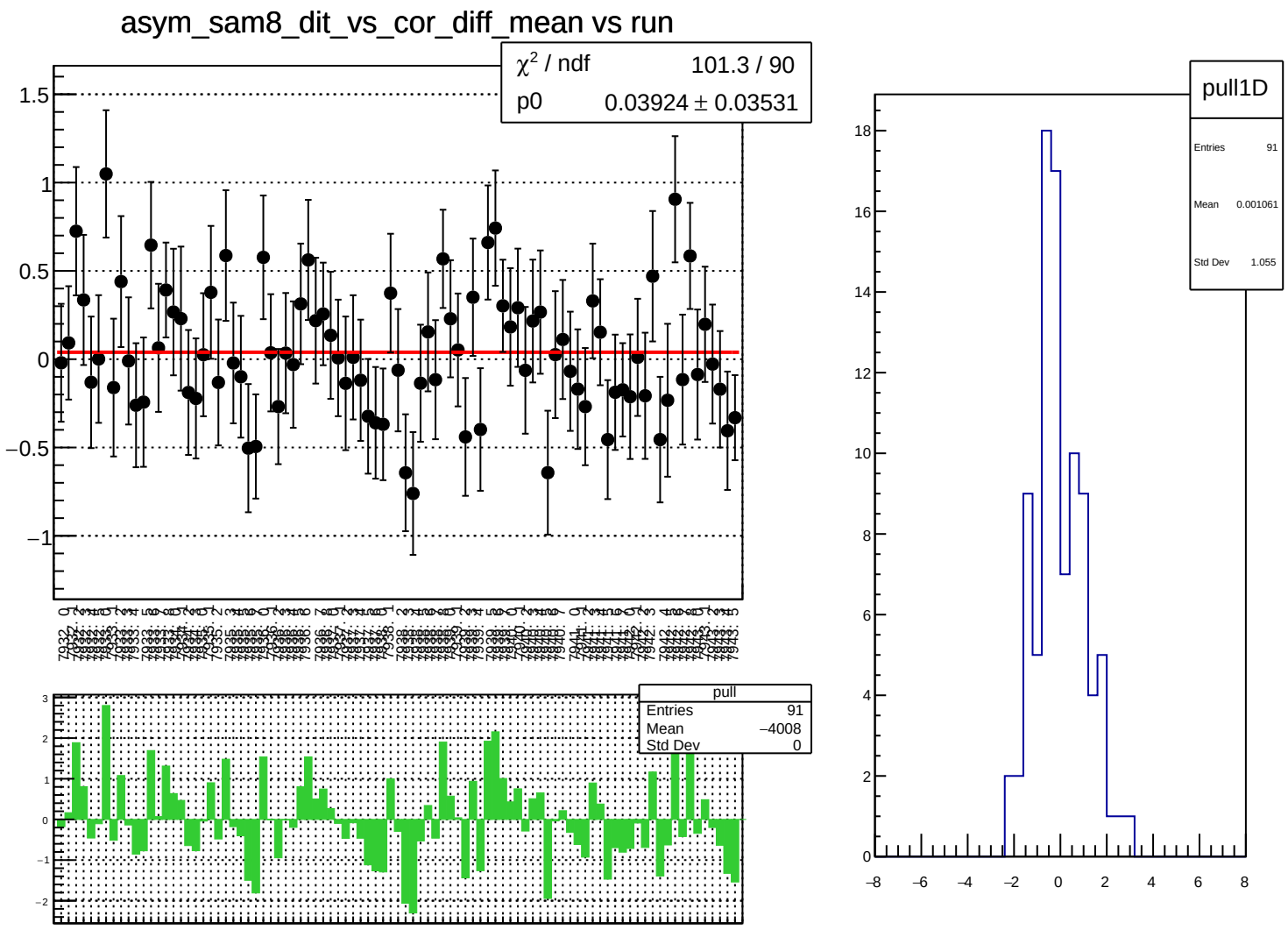

asym_sam8_mean vs run
χ^2 / ndf 112.6 / 90
p0 462.9 ± 704.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −25
Std Dev 0
2
1
0
−1
−2
−3

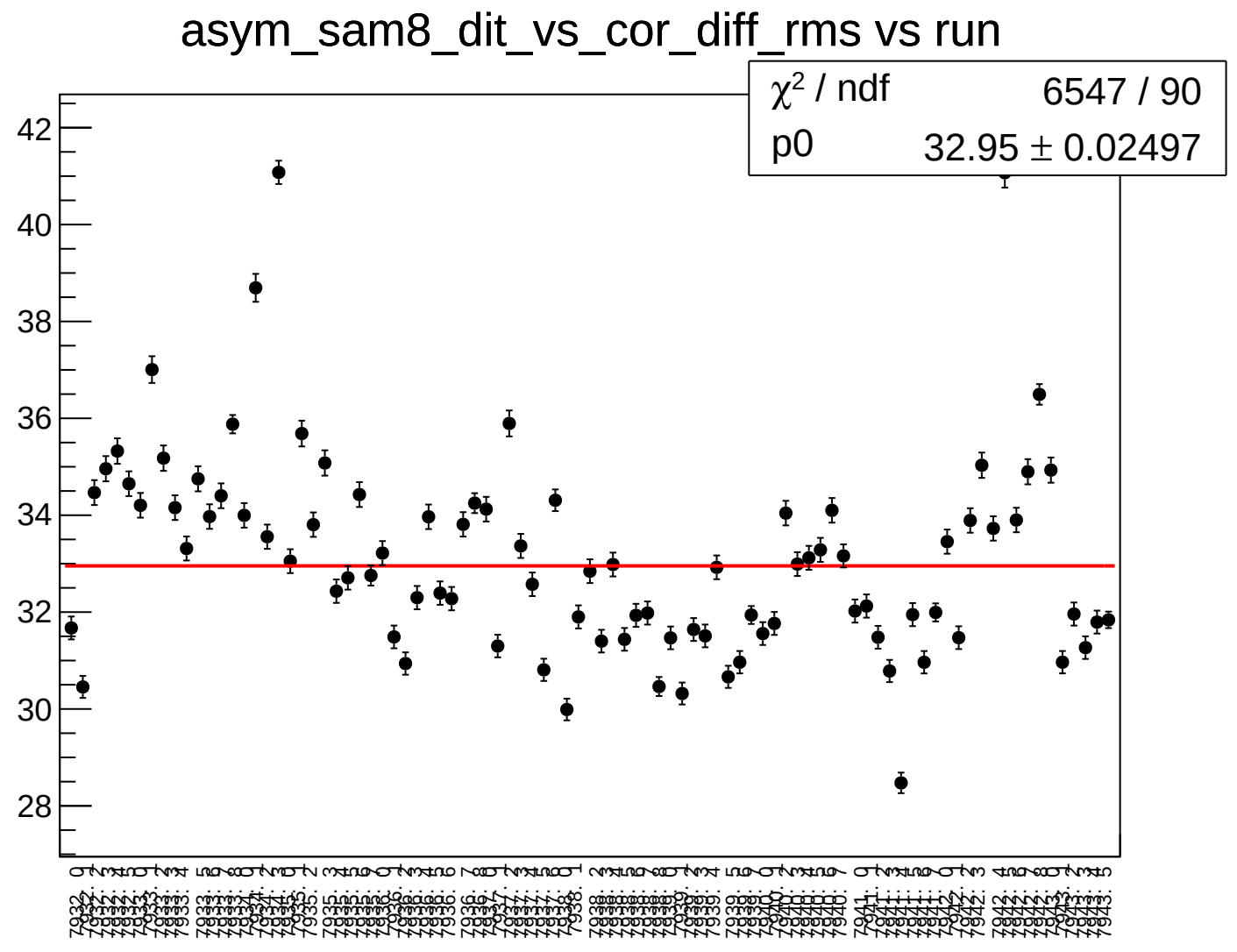

pull1D
Entries 91
Mean −0.01323
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

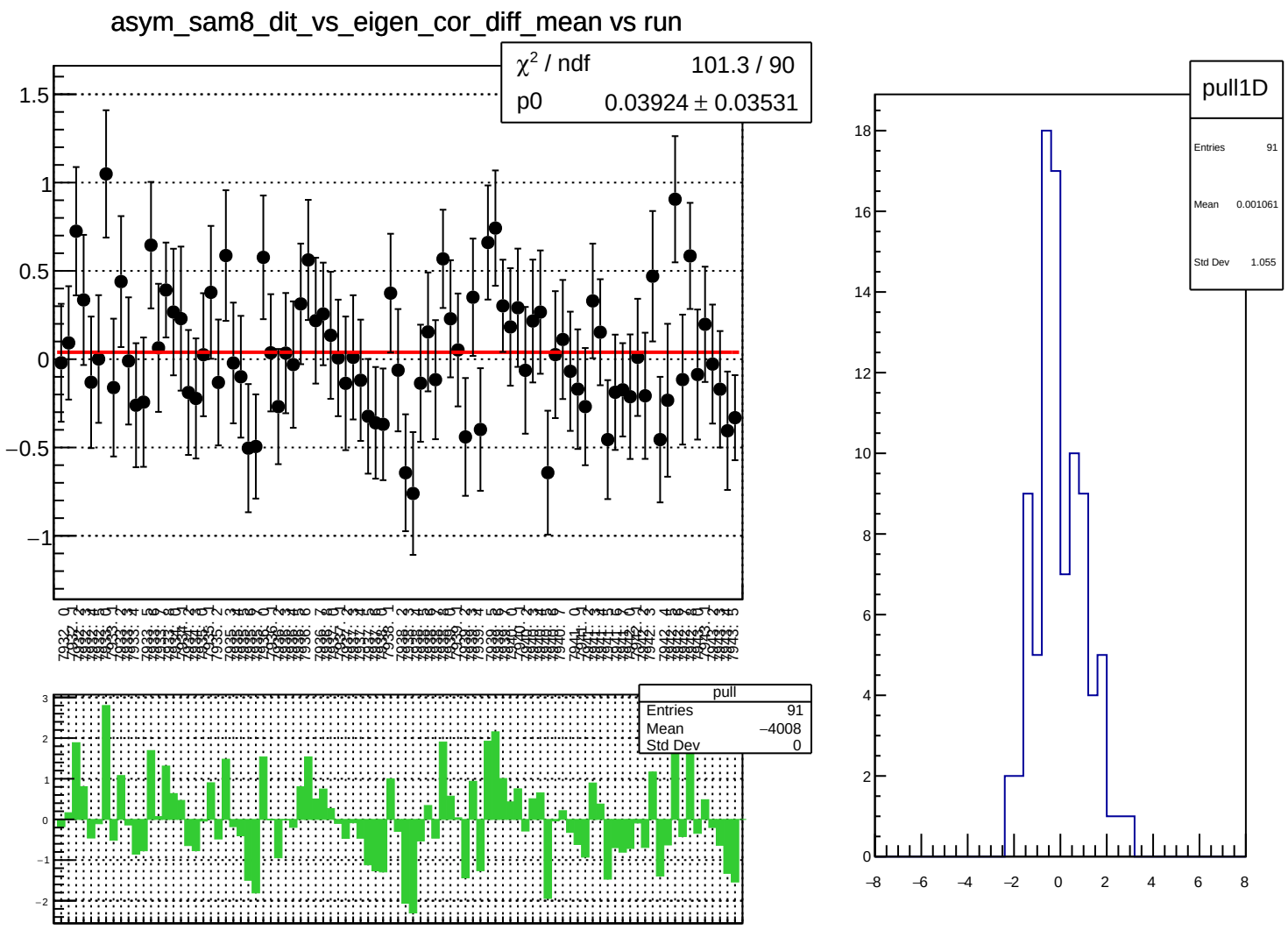

asym_sam8_rms vs run
χ² / ndf 3165 / 90
p0 658.4 ± 0.4984
740
720
700
680
660
640
620
600
580

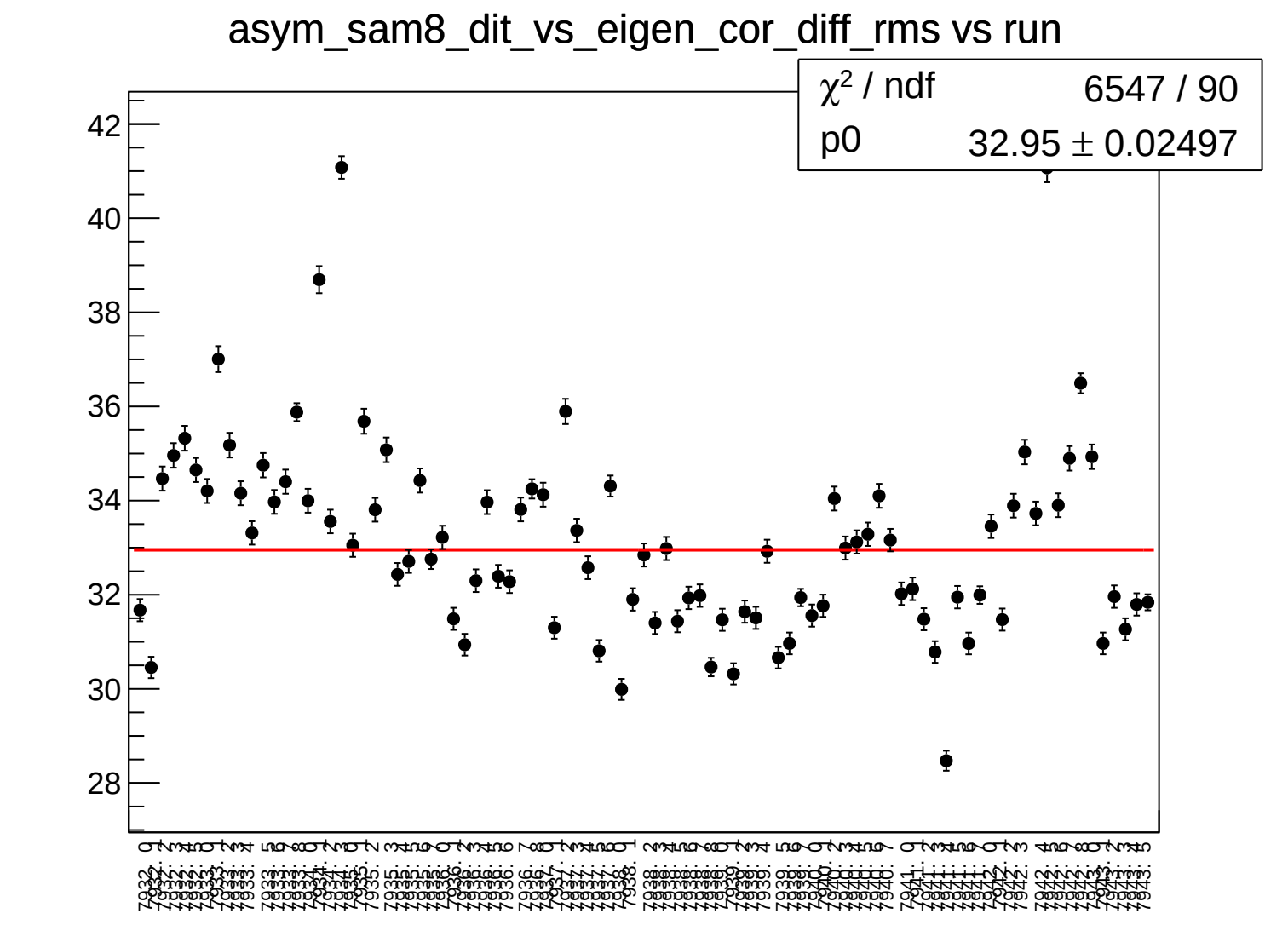

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 90
p0 −9.021e−14 ± 6.252e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 91
Mean 58.34
Std Dev 3.987
pull1D
Entries 91
Mean 0.06081
Std Dev 1.069

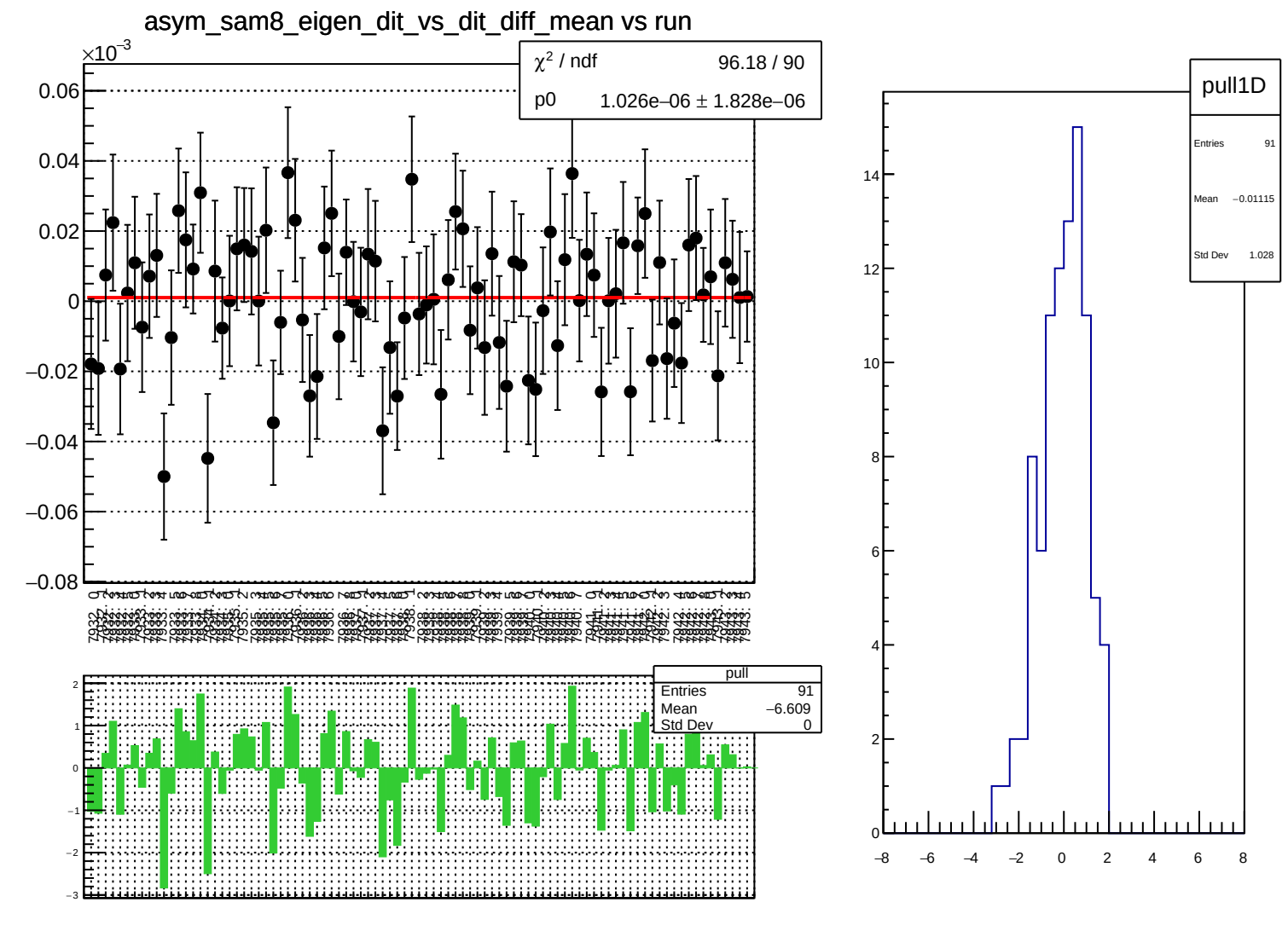

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 90
p0 2.537e−11 ± 4.421e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

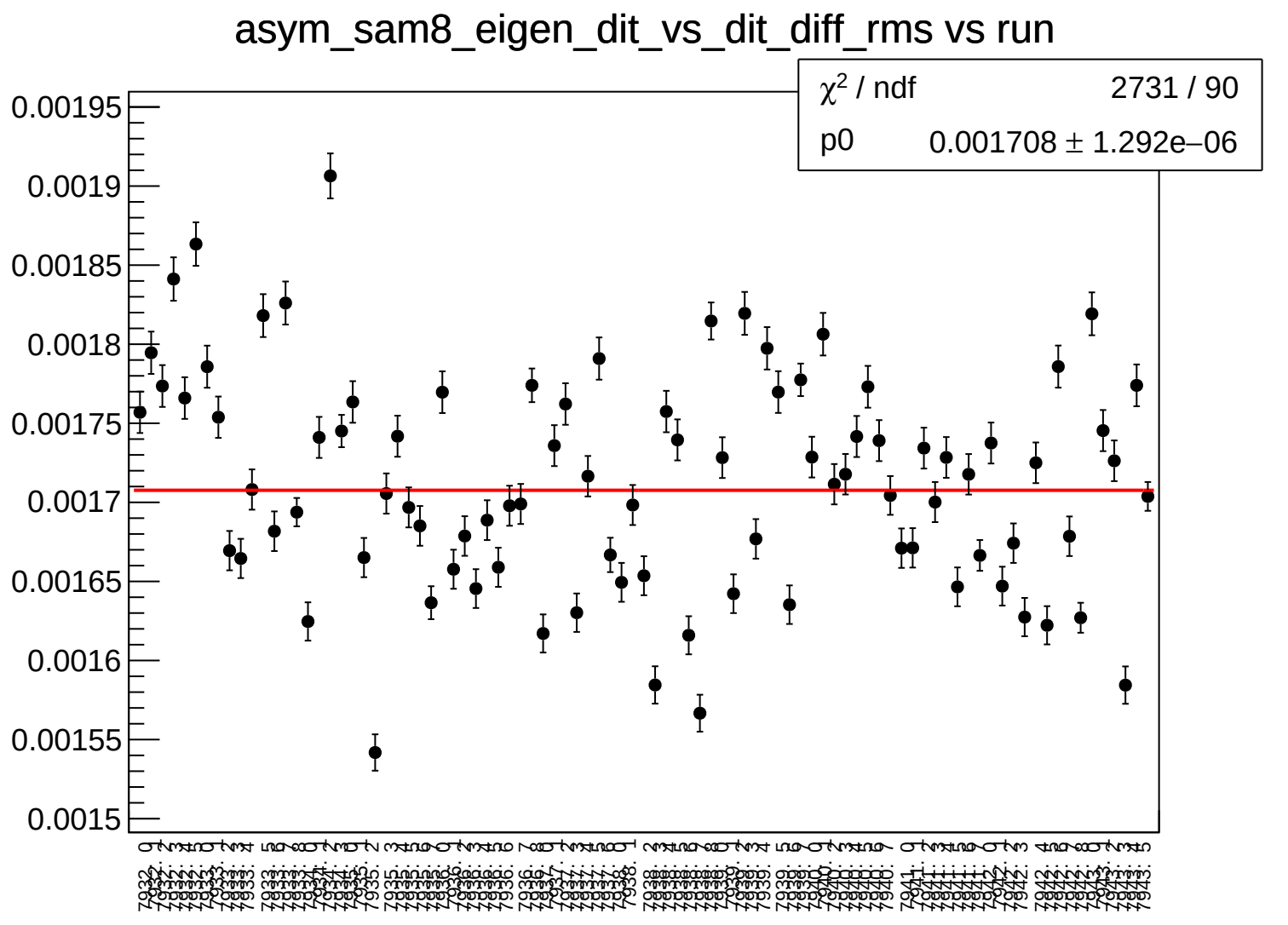

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.03924 ± 0.03531
pull
Entries 91
Mean −4008
Std Dev 0
pull1D
Entries 91
Mean 0.001061
Std Dev 1.055

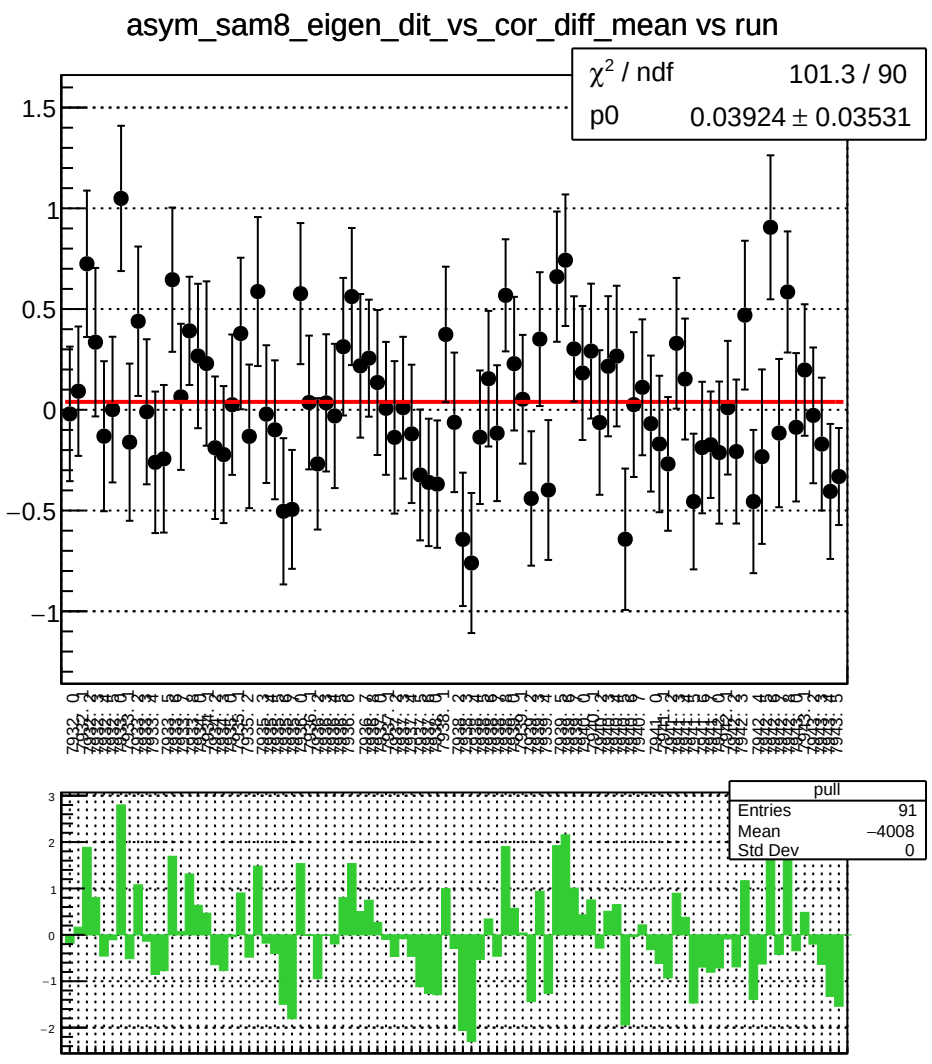

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 6547 / 90
p0 32.95 ± 0.02497
42
40
38
36
34
32
30
28

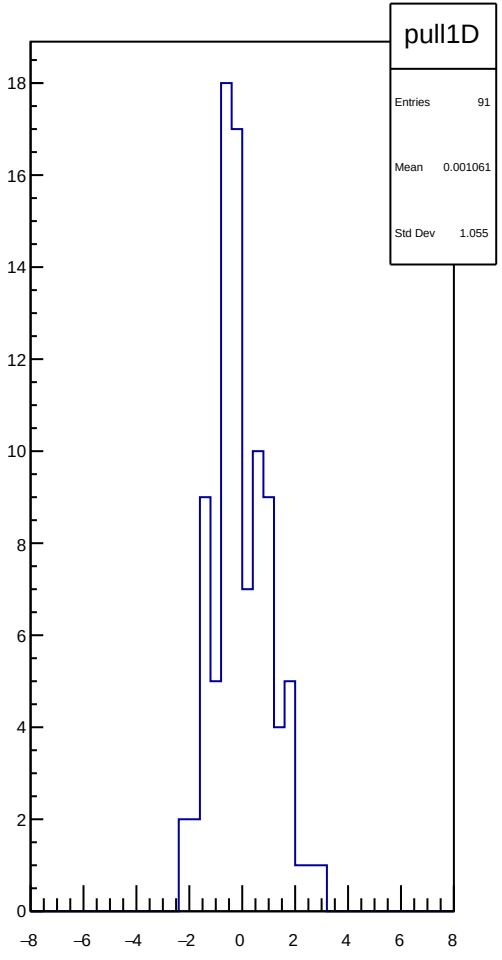

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.03924 ± 0.03531
pull
Entries 91
Mean −4008
Std Dev 0
pull1D
Entries 91
Mean 0.001061
Std Dev 1.055

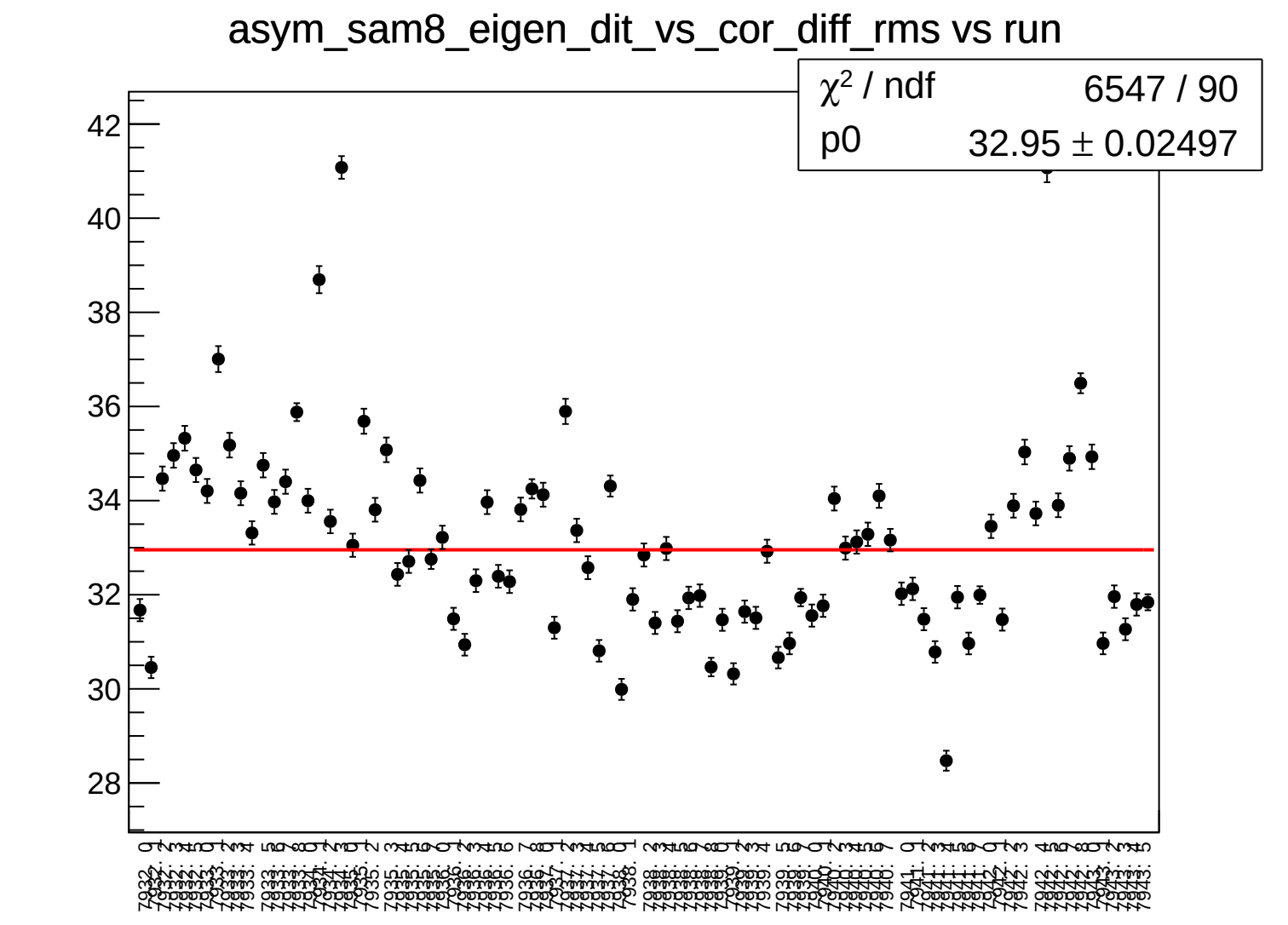

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6547 / 90
p0 32.95 ± 0.02497
42
40
38
36
34
32
30
28

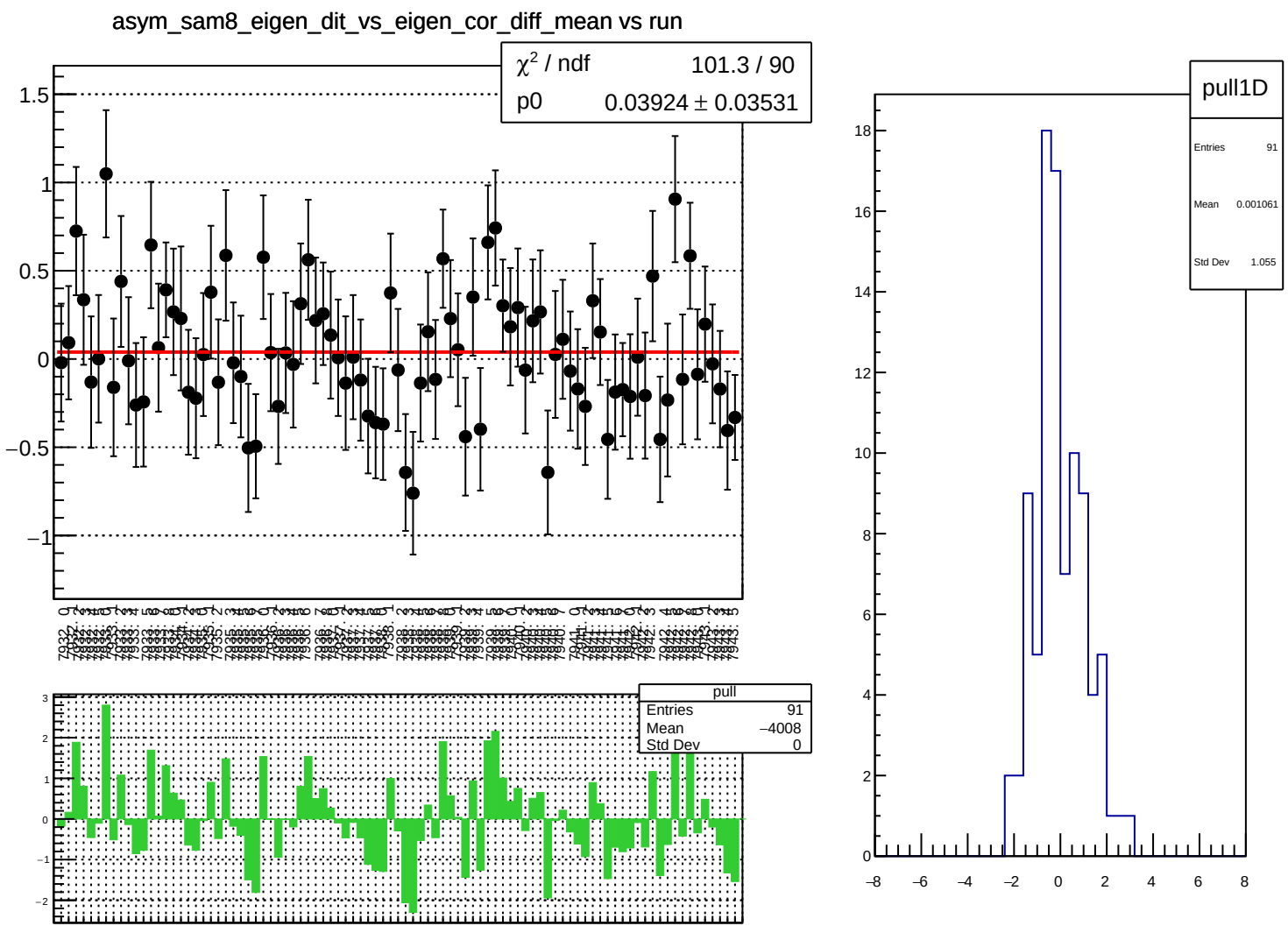

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.18 / 90
p0 1.026e−06 ± 1.828e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean −6.609
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01115
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

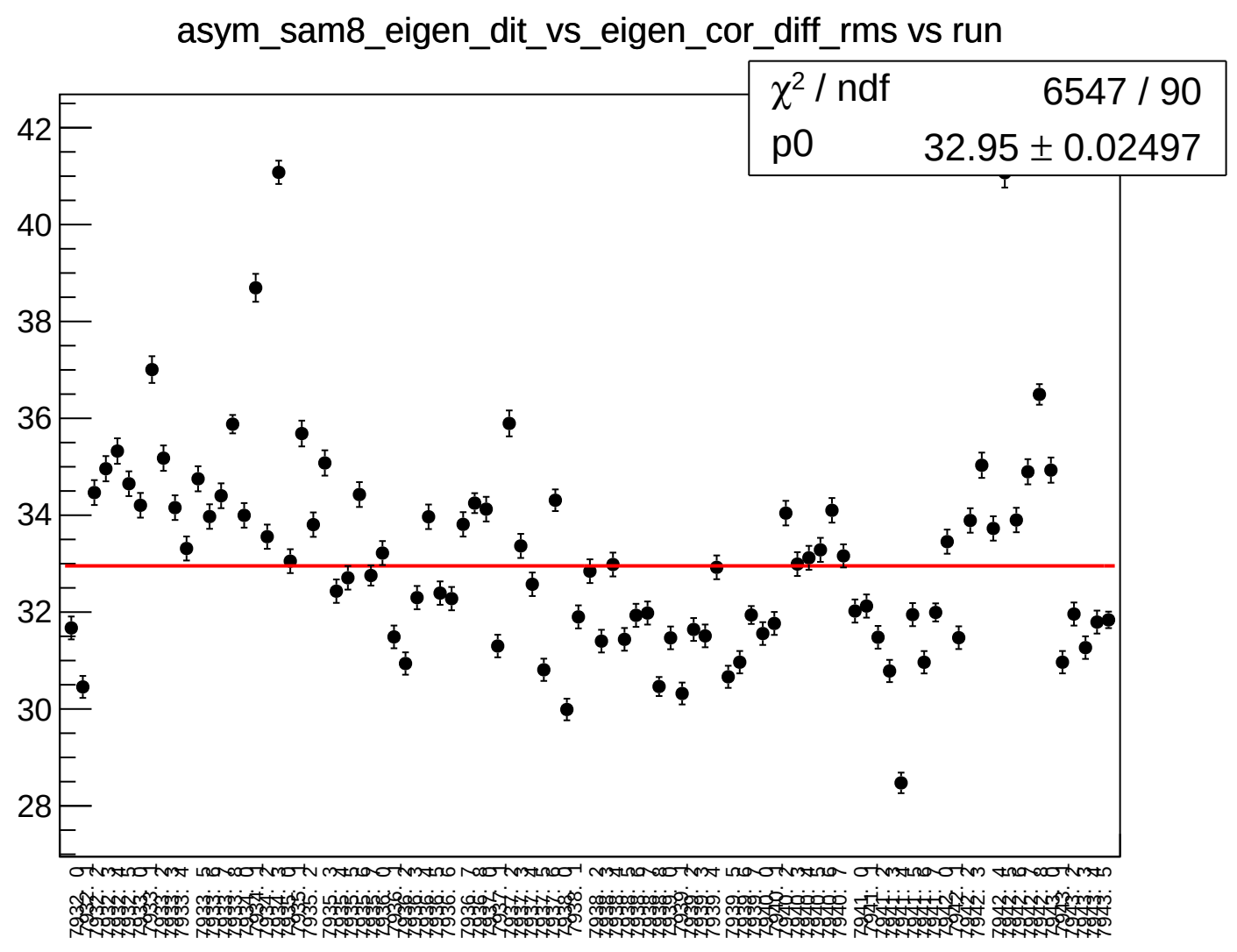

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2731 / 90
p0 0.001708 ± 1.292e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

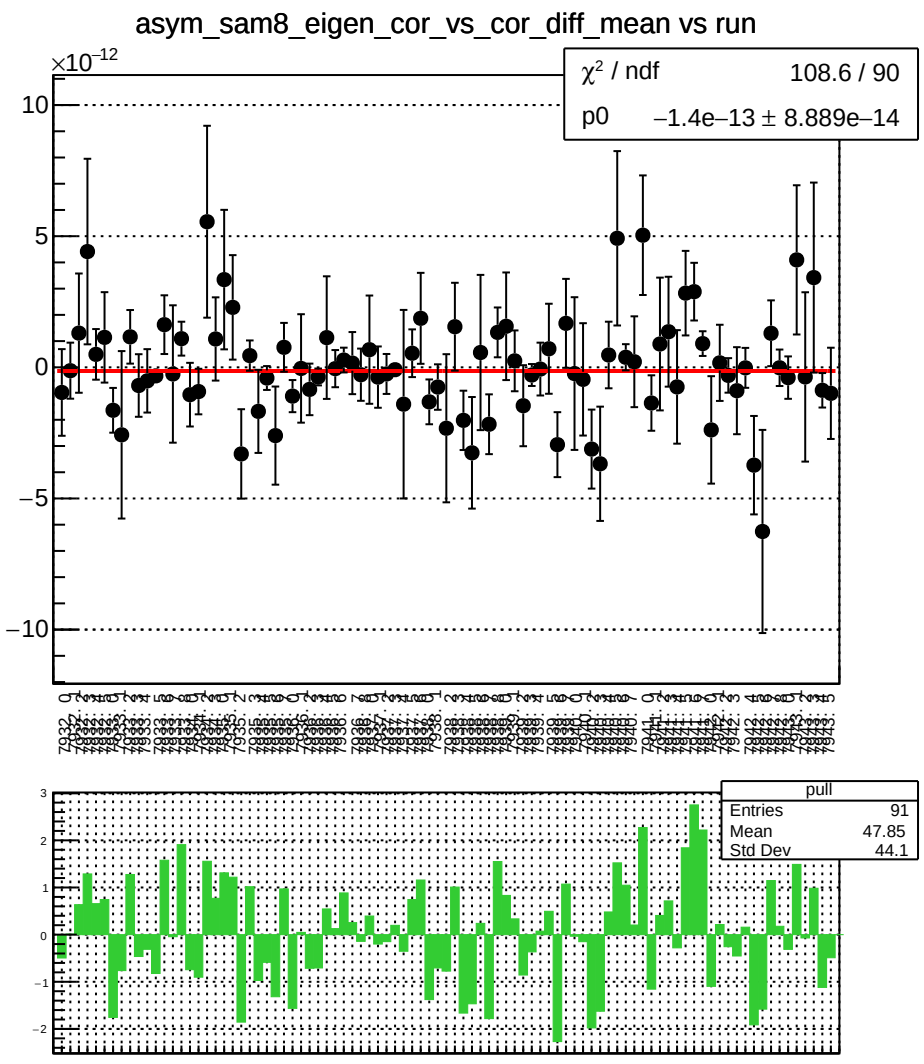

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.03924 ± 0.03531
pull
Entries 91
Mean −4008
Std Dev 0

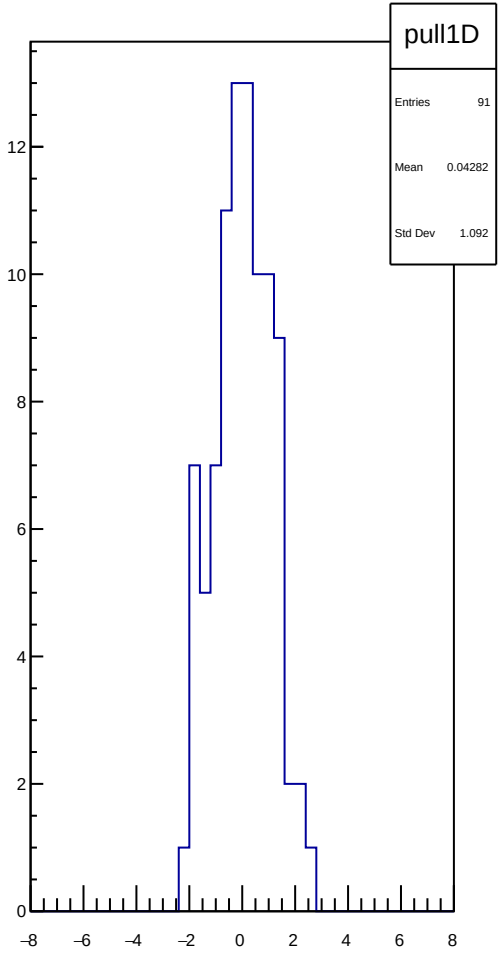

pull1D
Entries 91
Mean 0.001061
Std Dev 1.055

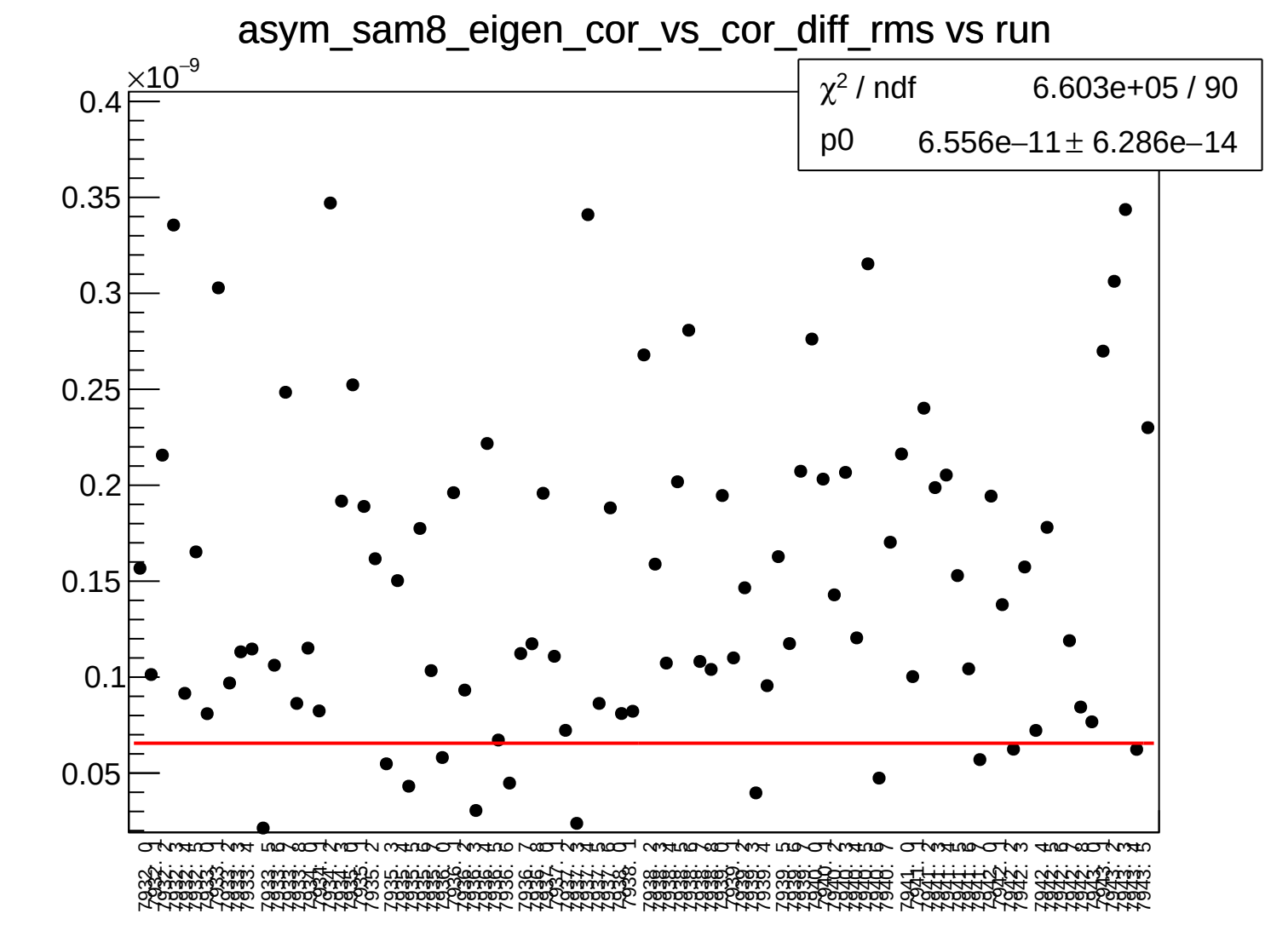

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6547 / 90
p0 32.95 ± 0.02497
42
40
38
36
34
32
30
28

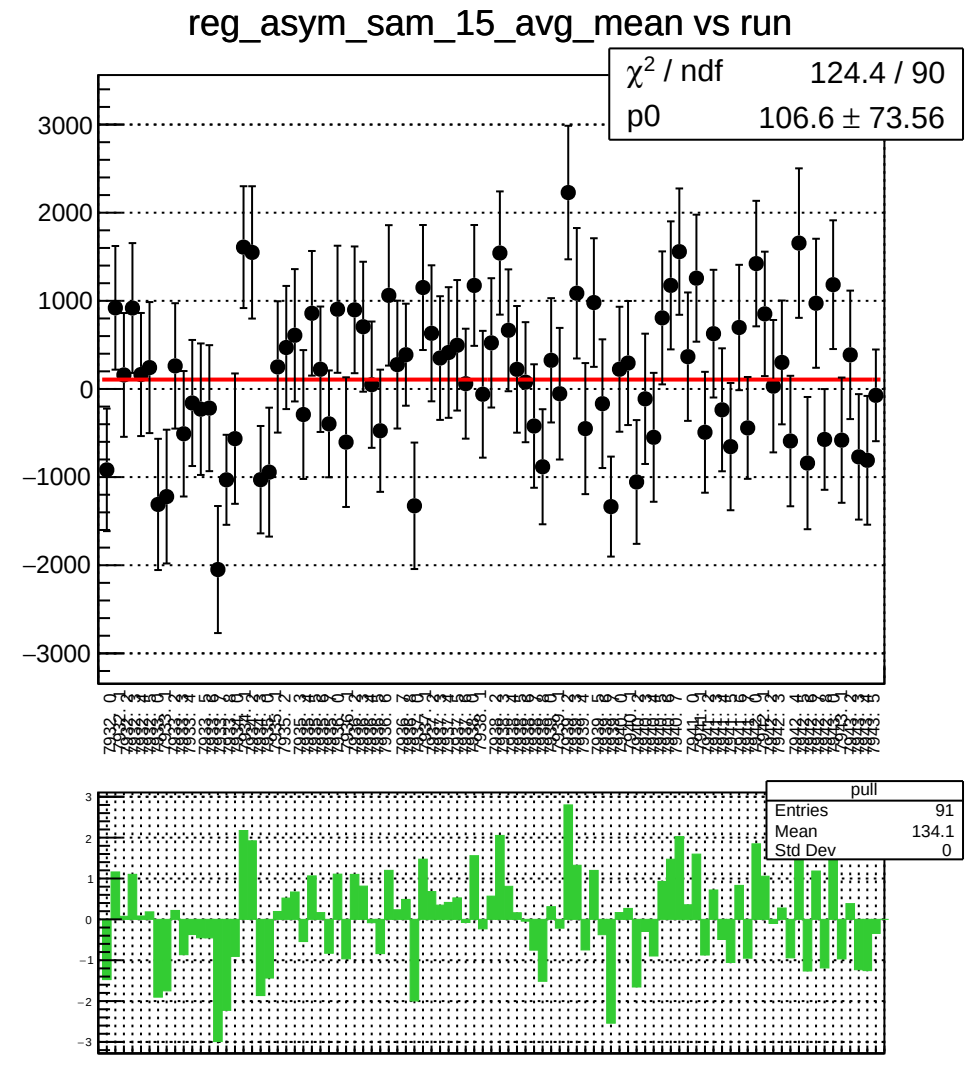

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.03924 ± 0.03531
pull
Entries 91
Mean −4008
Std Dev 0
pull1D
Entries 91
Mean 0.001061
Std Dev 1.055

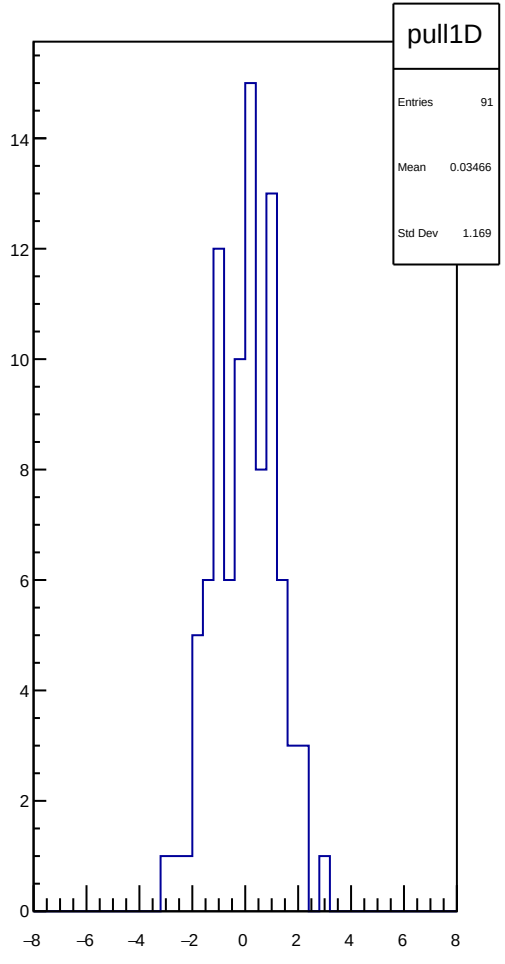

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6547 / 90
p0 32.95 ± 0.02497
42
40
38
36
34
32
30
28

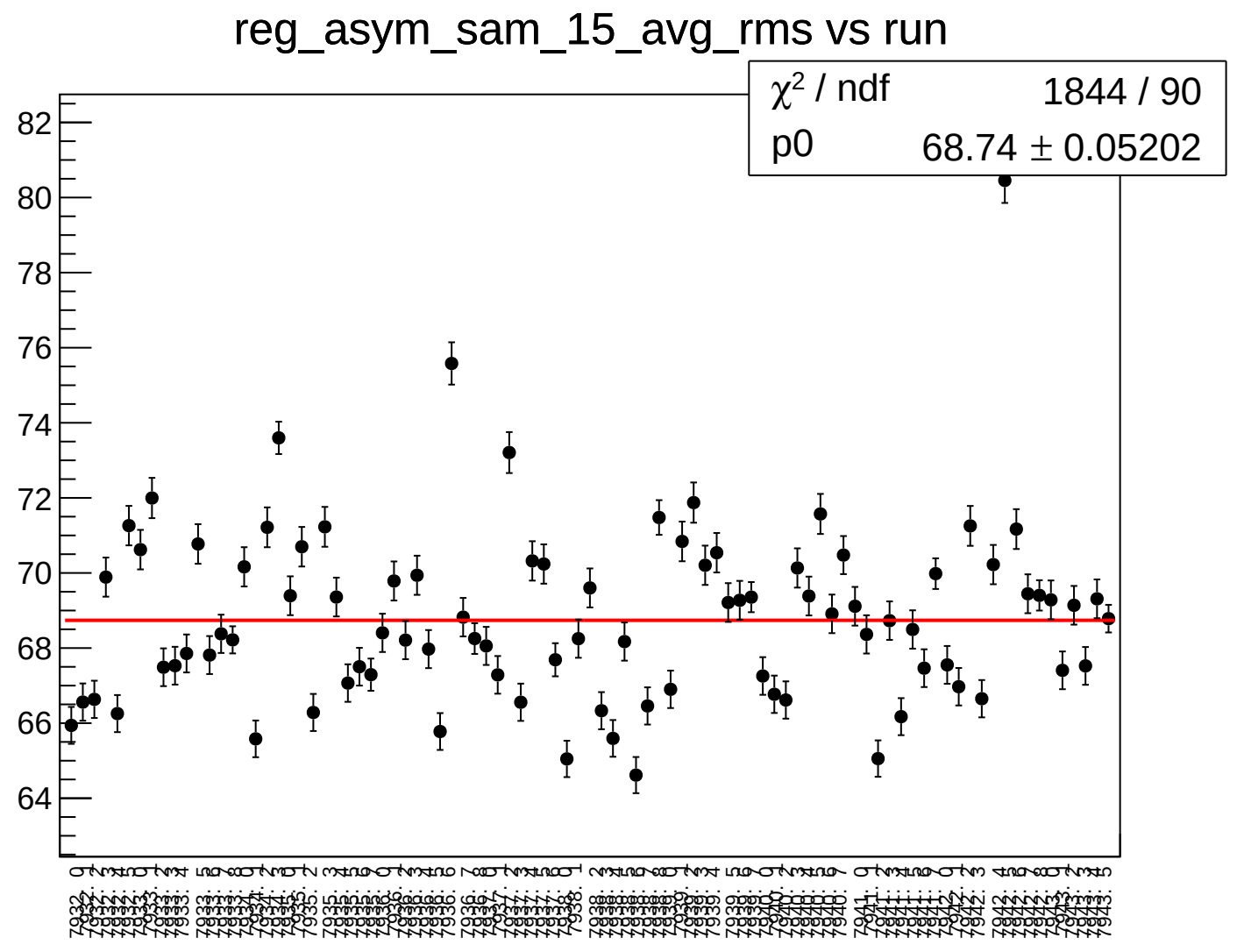

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.6 / 90
p0 −1.4e−13 ± 8.889e−14
pull
Entries 91
Mean 47.85
Std Dev 44.1

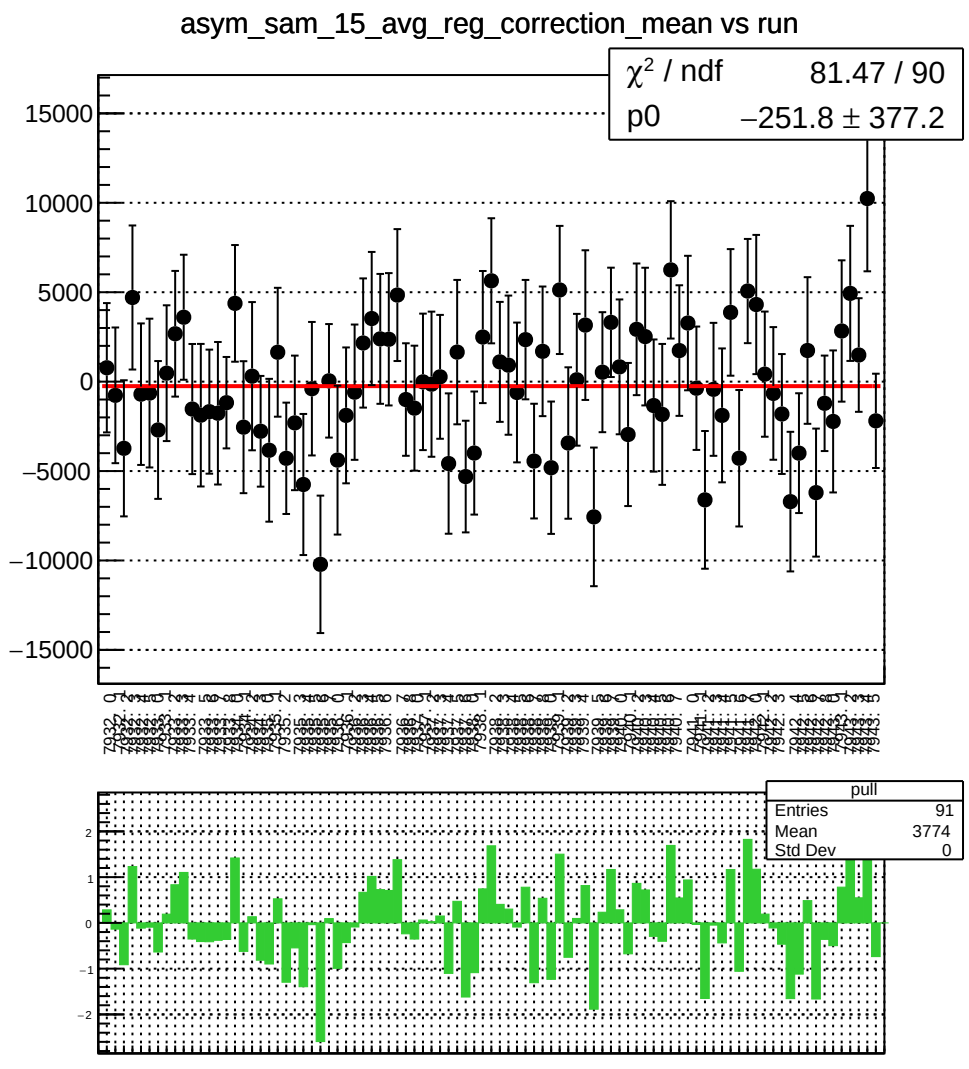

pull1D
Entries 91
Mean 0.04282
Std Dev 1.092

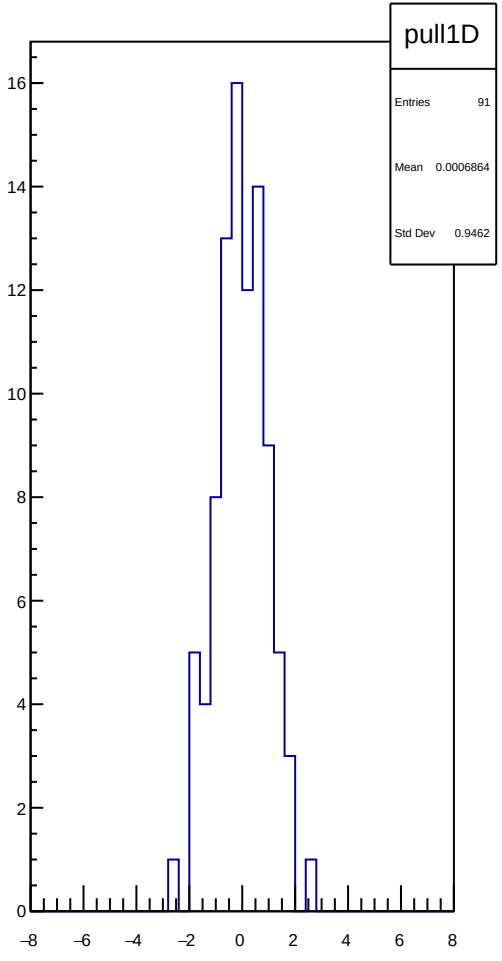

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.603e+05 / 90
p0 6.556e−11 ± 6.286e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

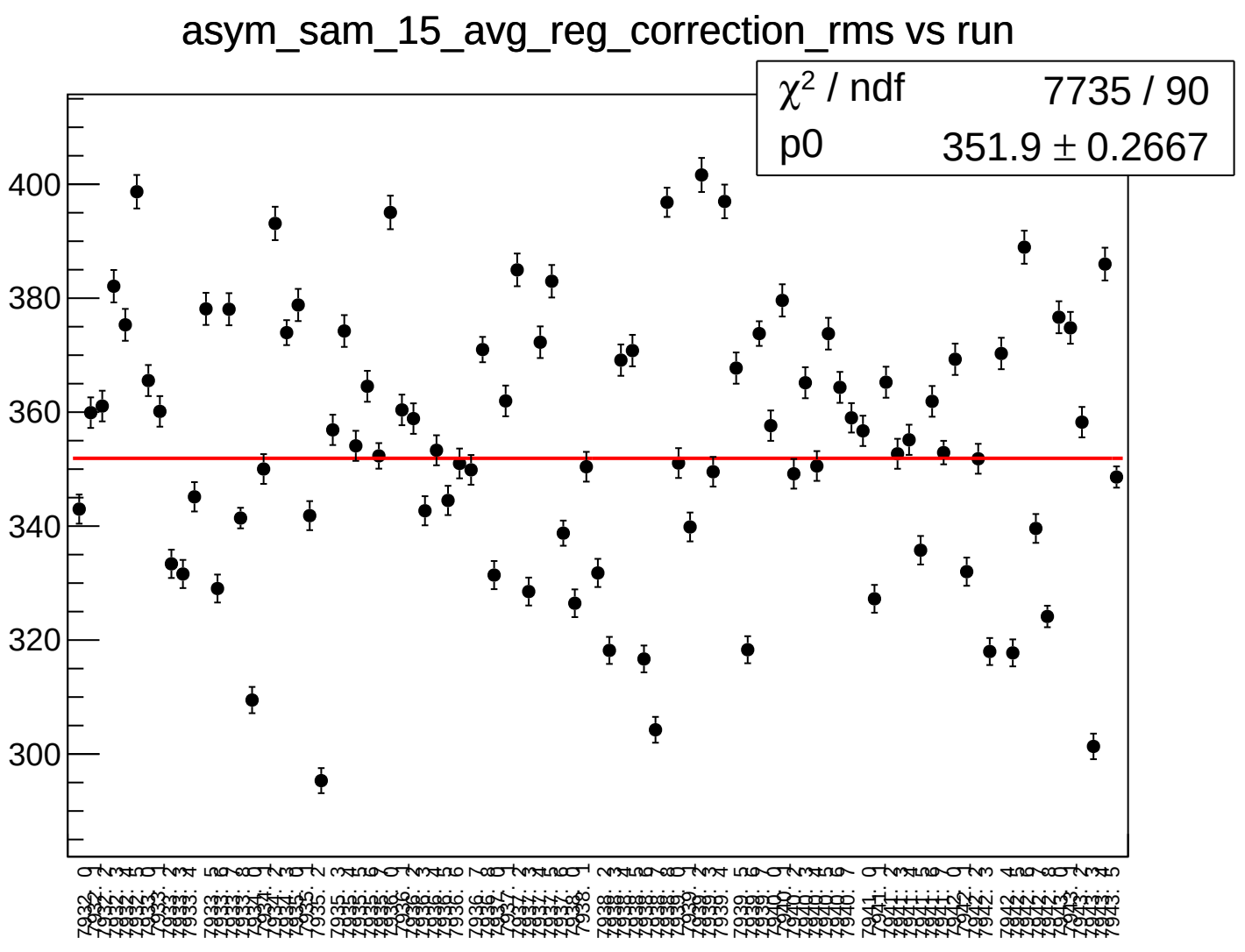

reg_asym_sam_15_avg_mean vs run
χ² / ndf 124.4 / 90
p0 106.6 ± 73.56
pull
Entries 91
Mean 134.1
Std Dev 0

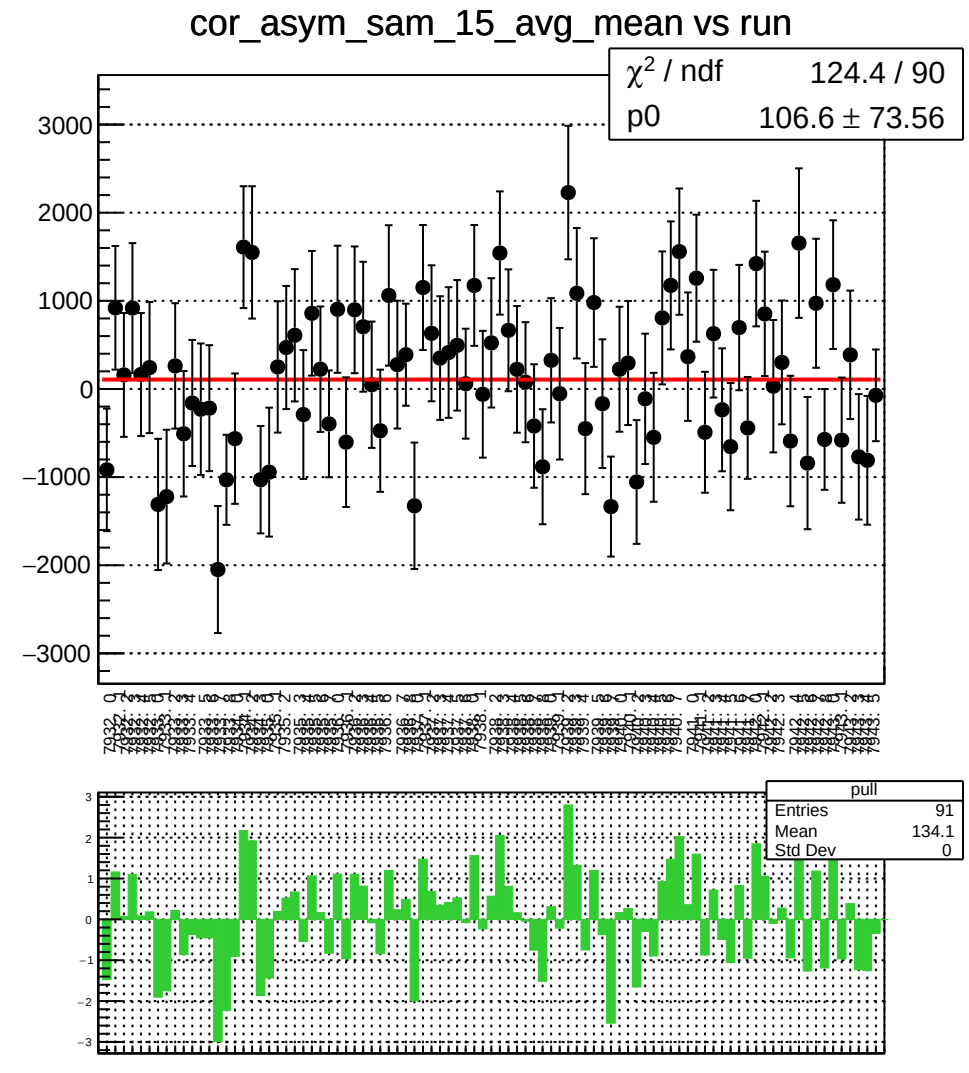

pull1D
Entries 91
Mean 0.03466
Std Dev 1.169

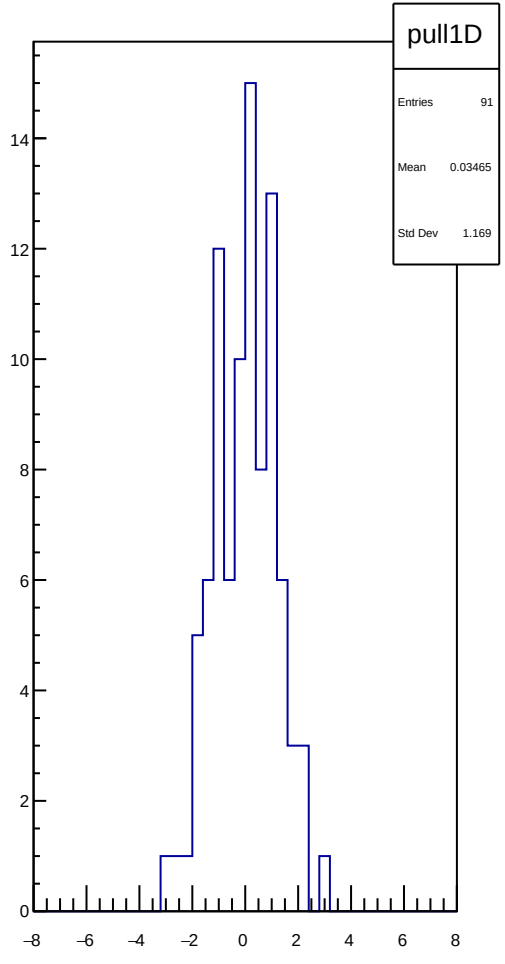

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1844 / 90
p0 68.74 ± 0.05202
82
80
78
76
74
72
70
68
66
64

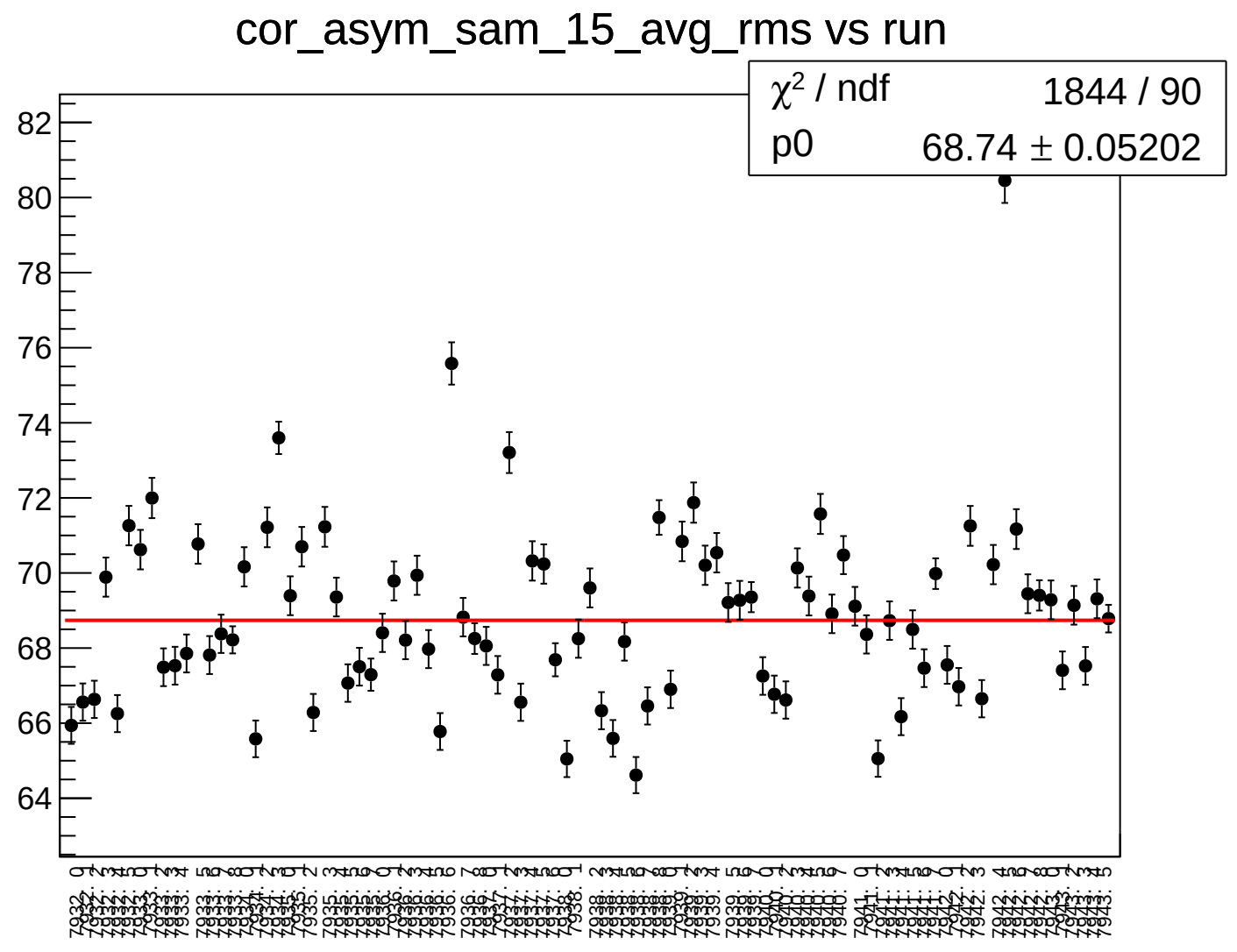

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 81.47 / 90
p0 −251.8 ± 377.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 3774
Std Dev 0
2
1
0
−1
−2

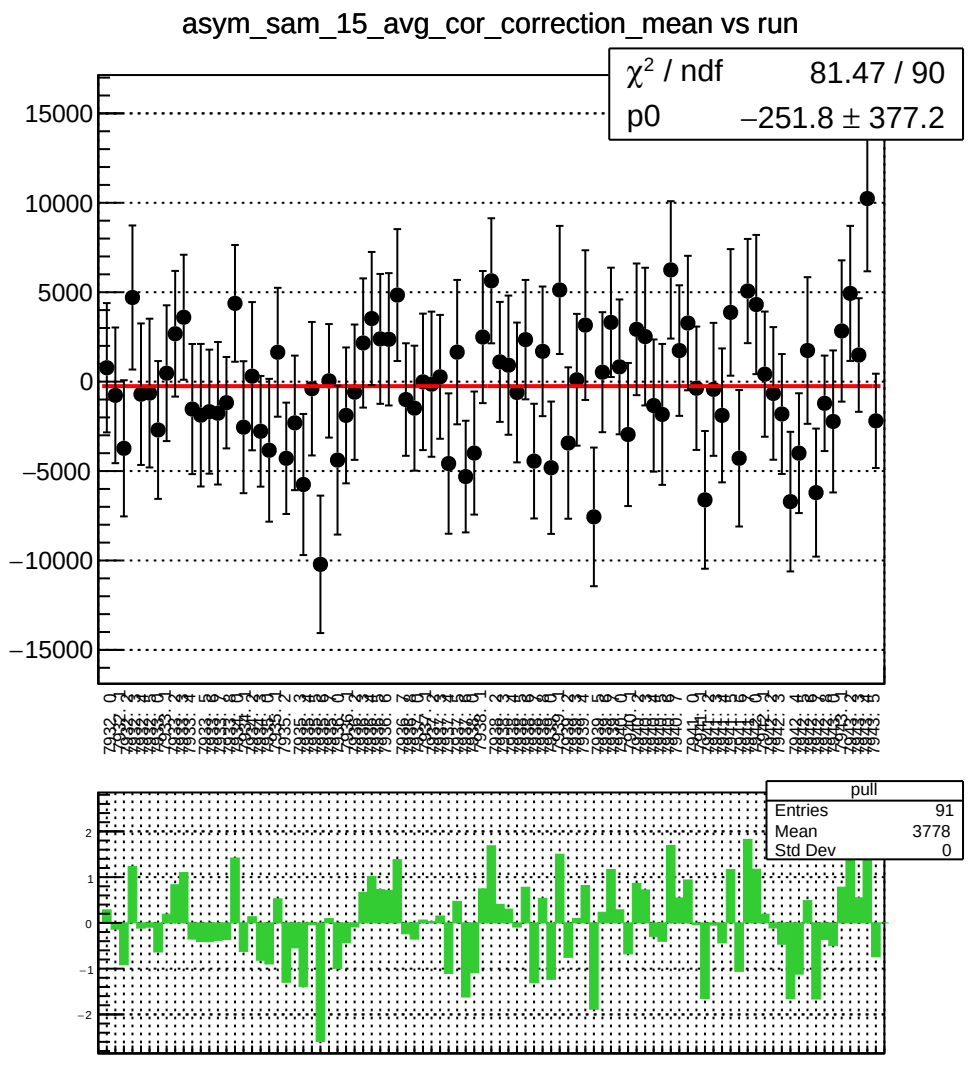

pull1D
Entries 91
Mean 0.0006864
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

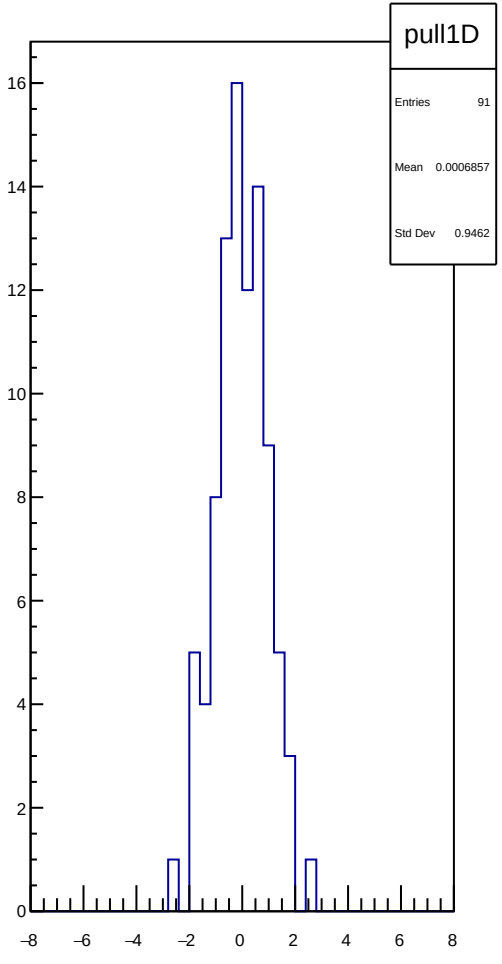

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 7735 / 90
p0 351.9 ± 0.2667
400
380
360
340
320
300

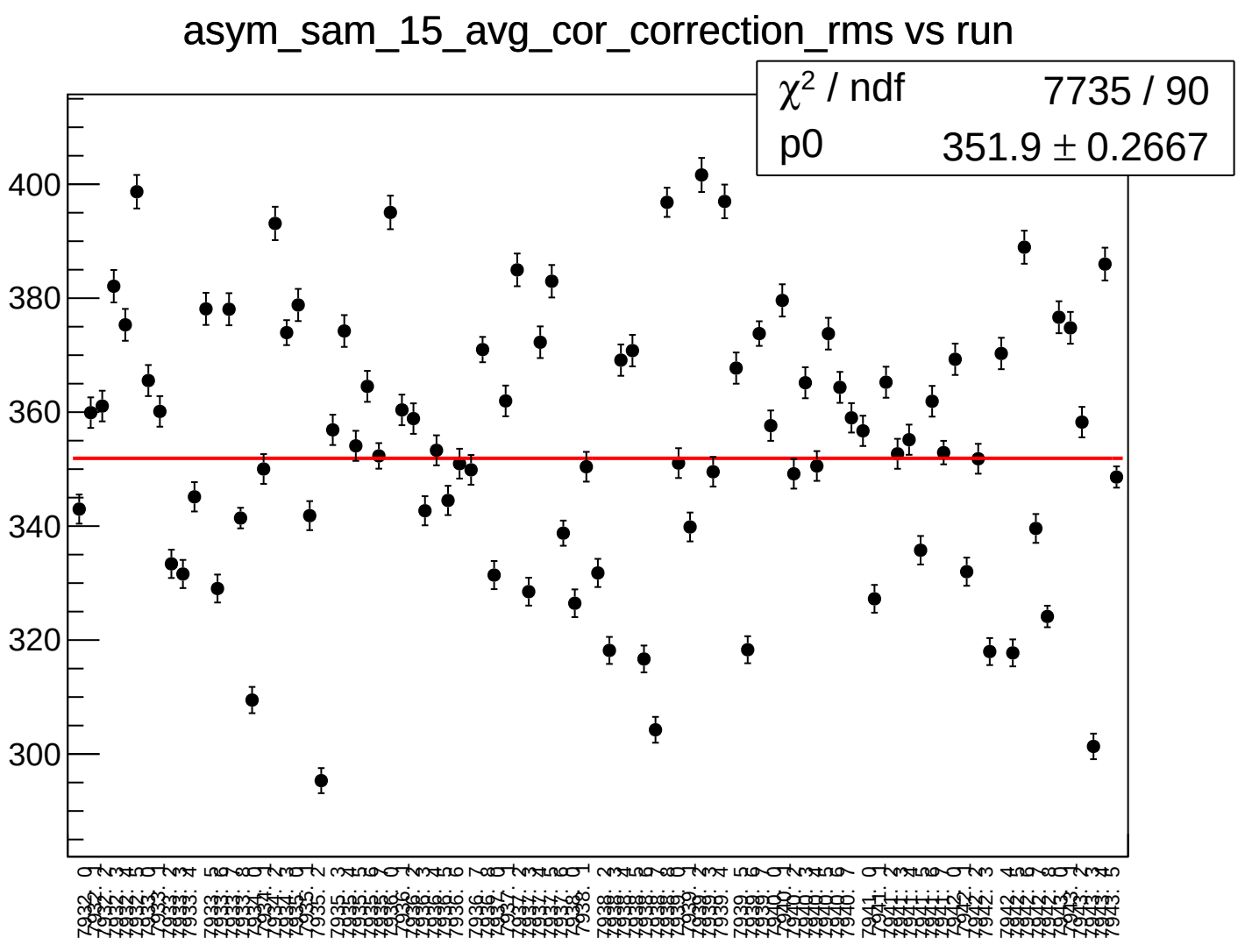

cor_asym_sam_15_avg_mean vs run
χ² / ndf 124.4 / 90
p0 106.6 ± 73.56
pull
Entries 91
Mean 134.1
Std Dev 0

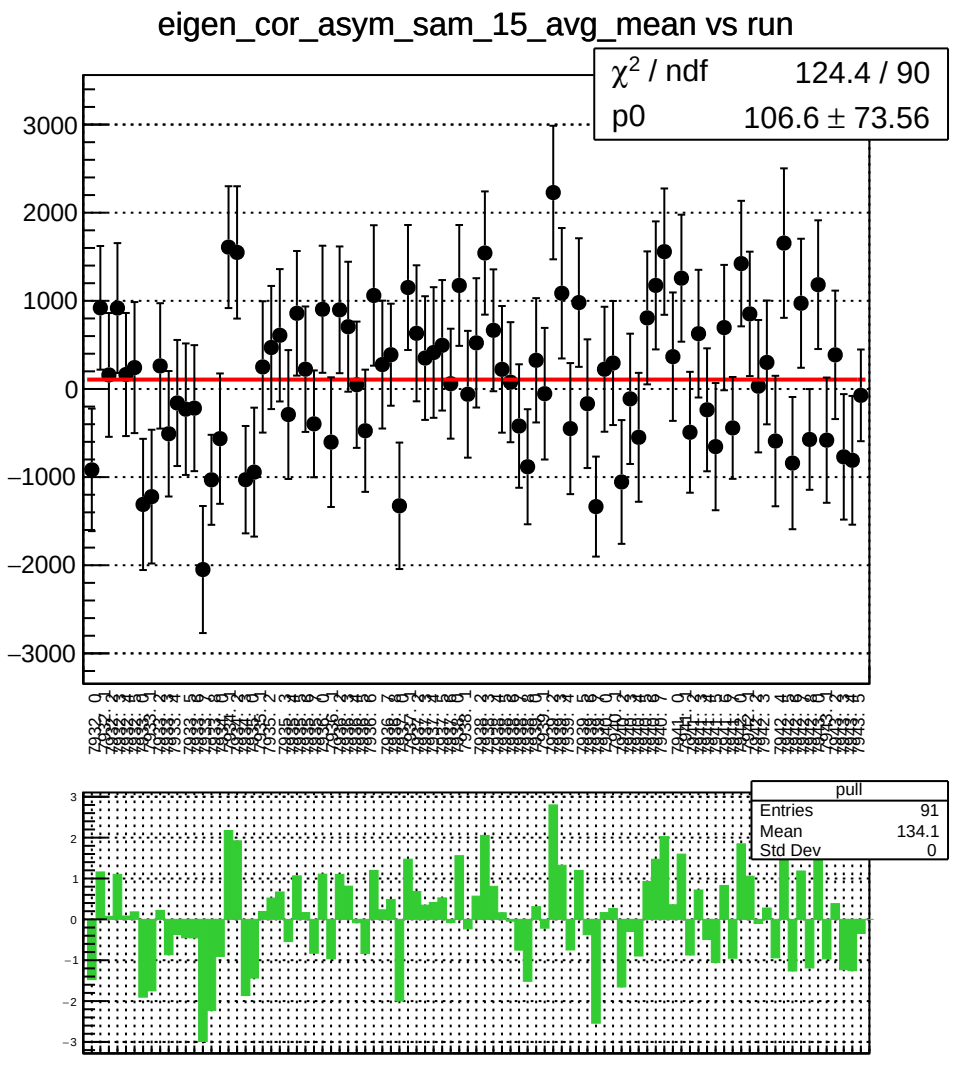

pull1D
Entries 91
Mean 0.03465
Std Dev 1.169

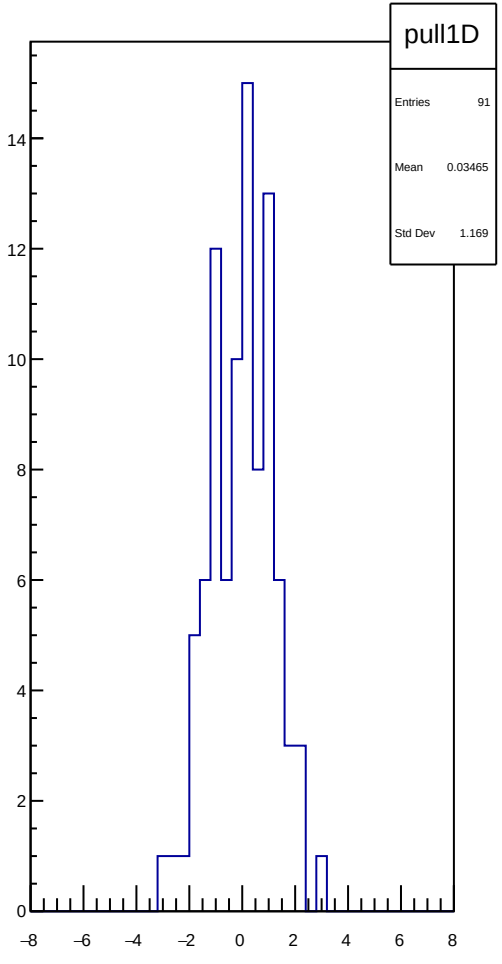

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1844 / 90
p0 68.74 ± 0.05202
82
80
78
76
74
72
70
68
66
64

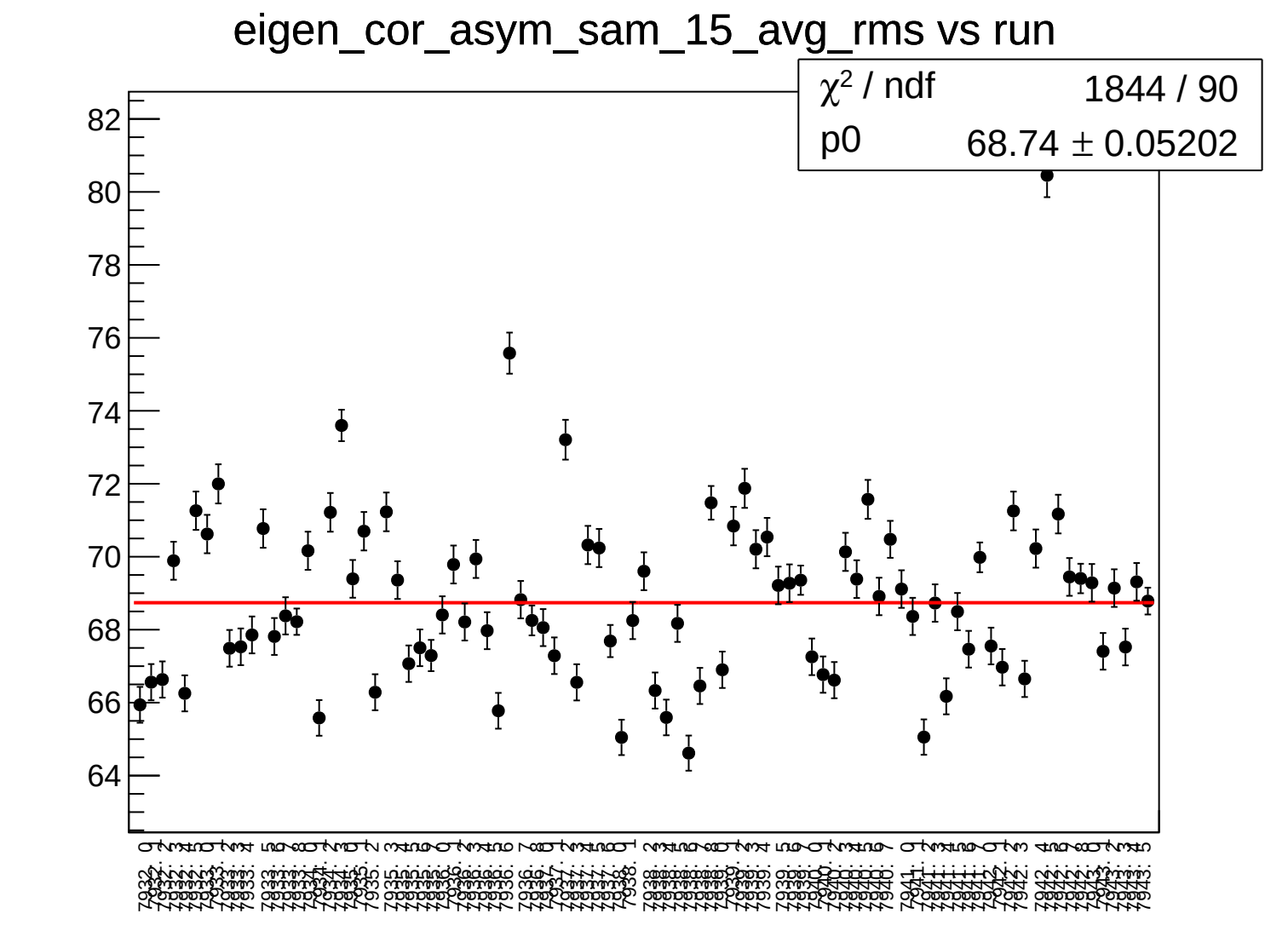

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 81.47 / 90
p0 −251.8 ± 377.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 3778
Std Dev 0
2
1
0
−1
−2

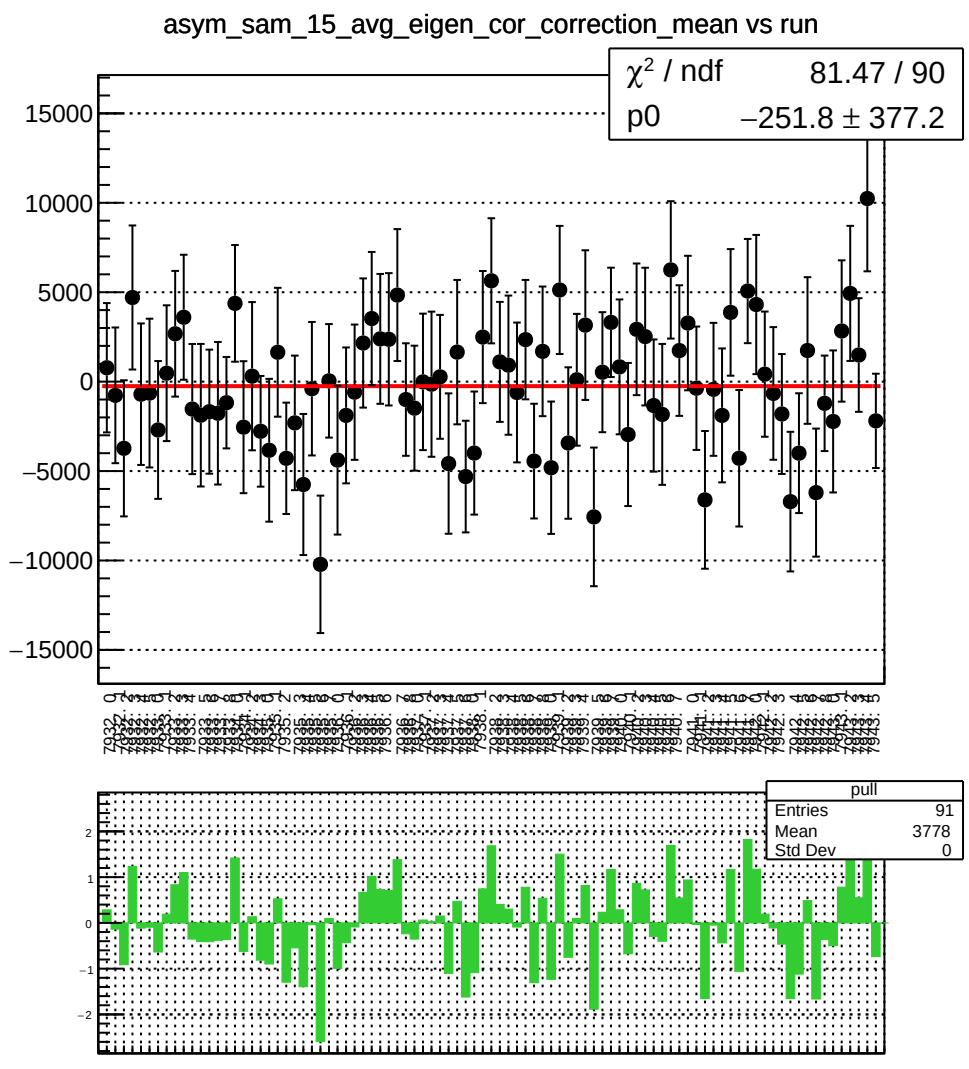

pull1D
Entries 91
Mean 0.0006857
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

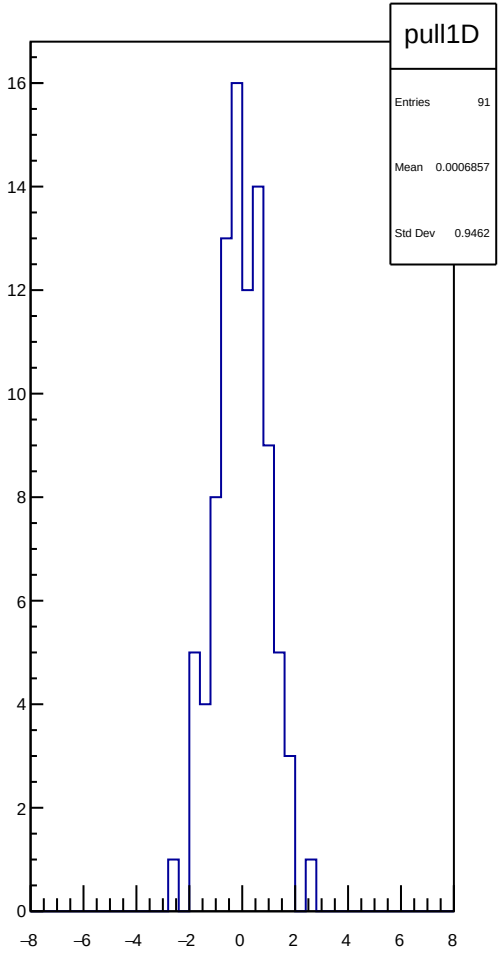

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 7735 / 90
p0 351.9 ± 0.2667
400
380
360
340
320
300

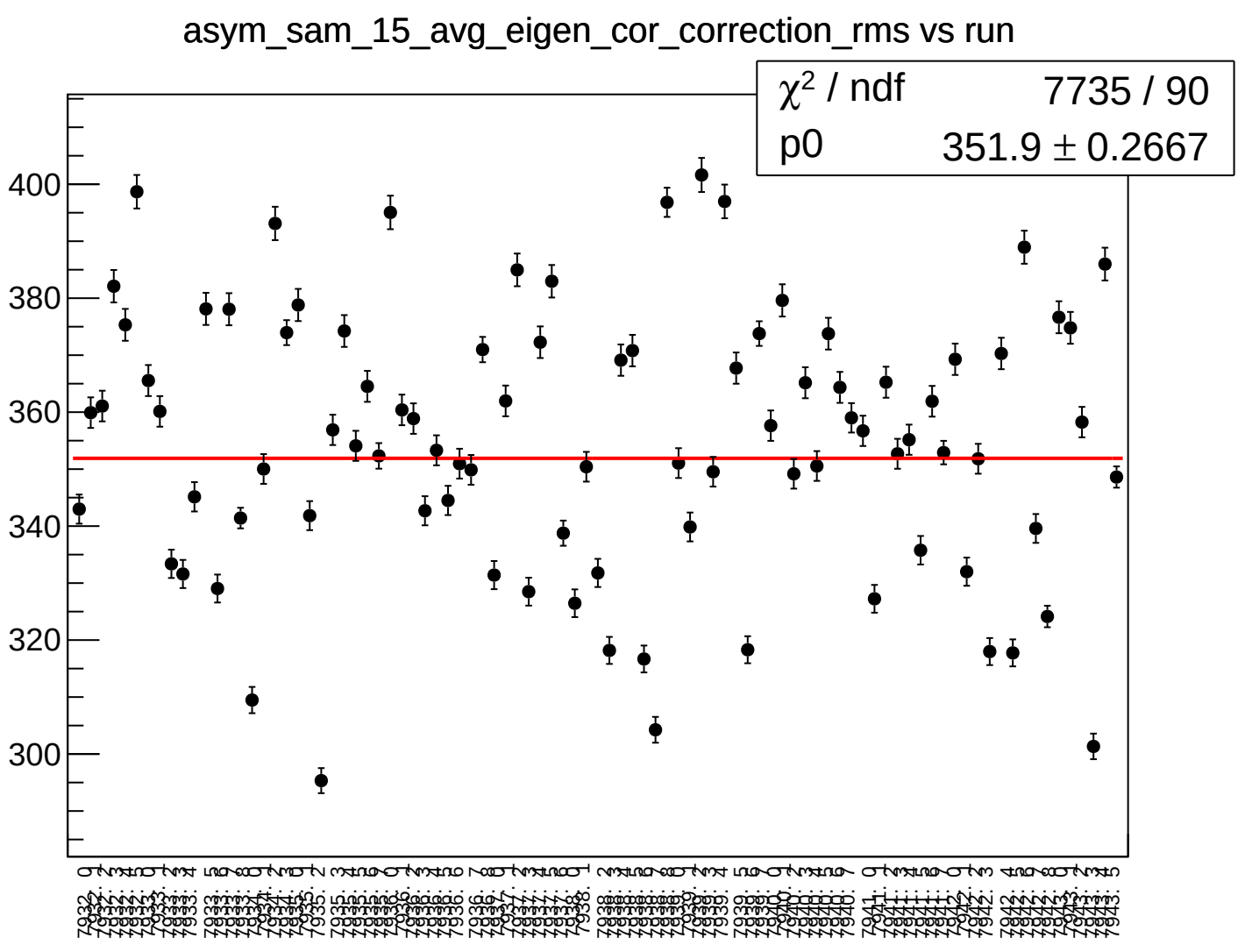

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 124.4 / 90
p0 106.6 ± 73.56
pull
Entries 91
Mean 134.1
Std Dev 0

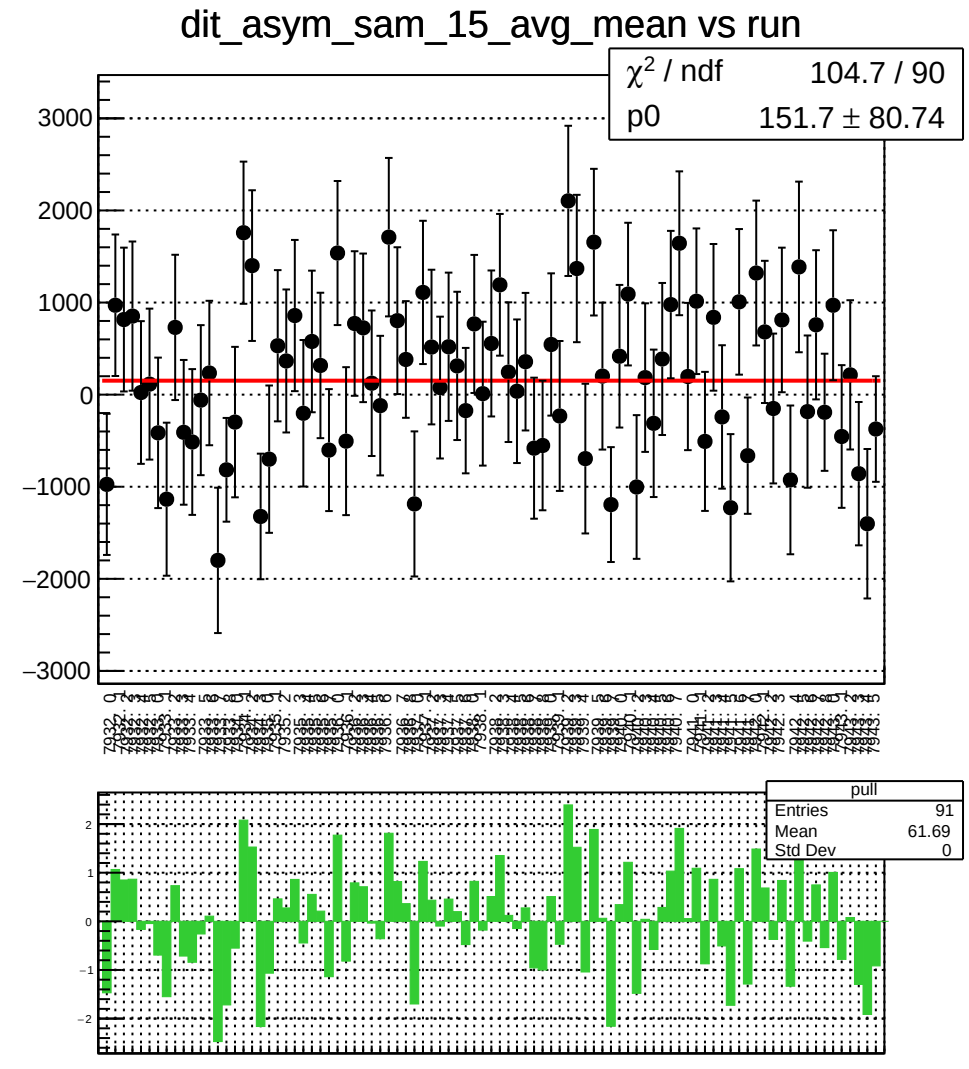

pull1D
Entries 91
Mean 0.03465
Std Dev 1.169

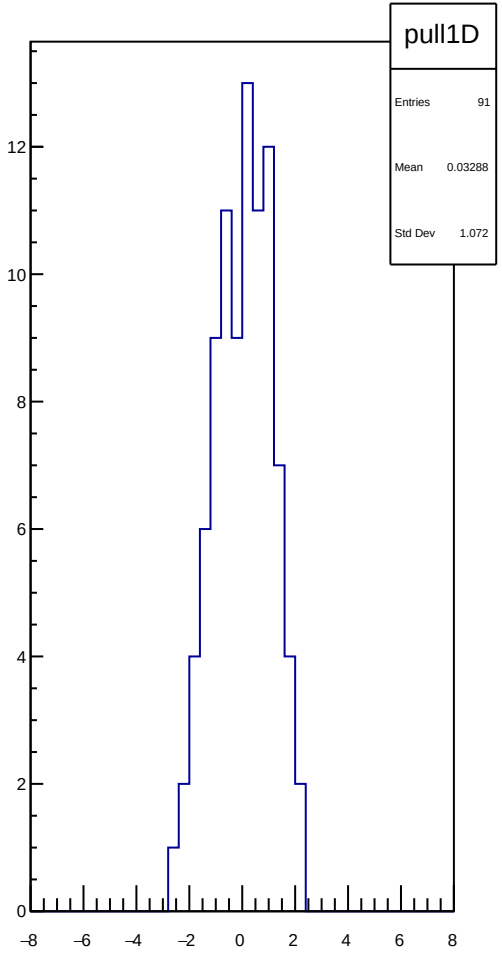

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1844 / 90
p0 68.74 ± 0.05202
82
80
78
76
74
72
70
68
66
64

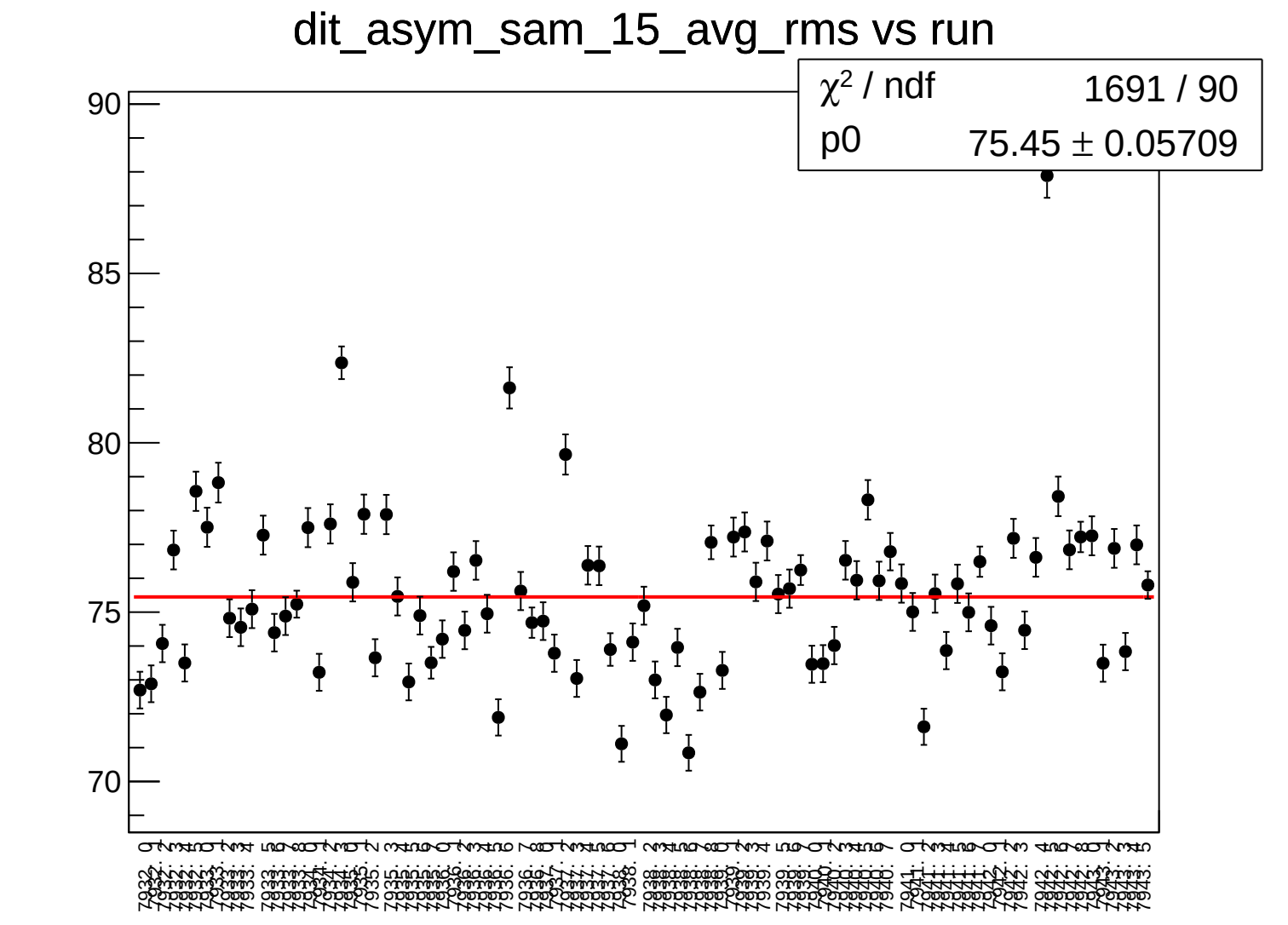

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.47 / 90
p0 −251.8 ± 377.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 3778
Std Dev 0
2
1
0
−1
−2

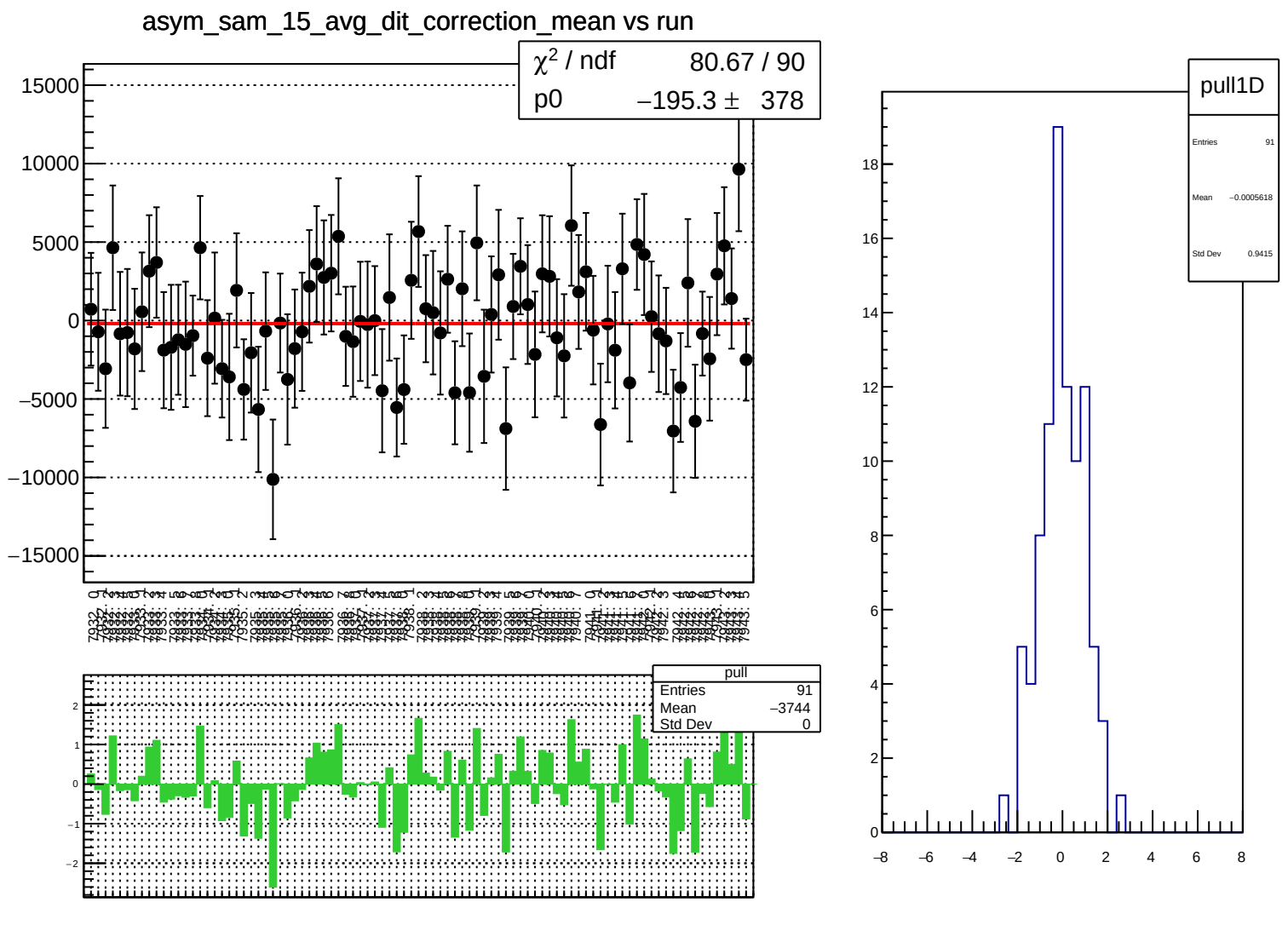

pull1D
Entries 91
Mean 0.0006857
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

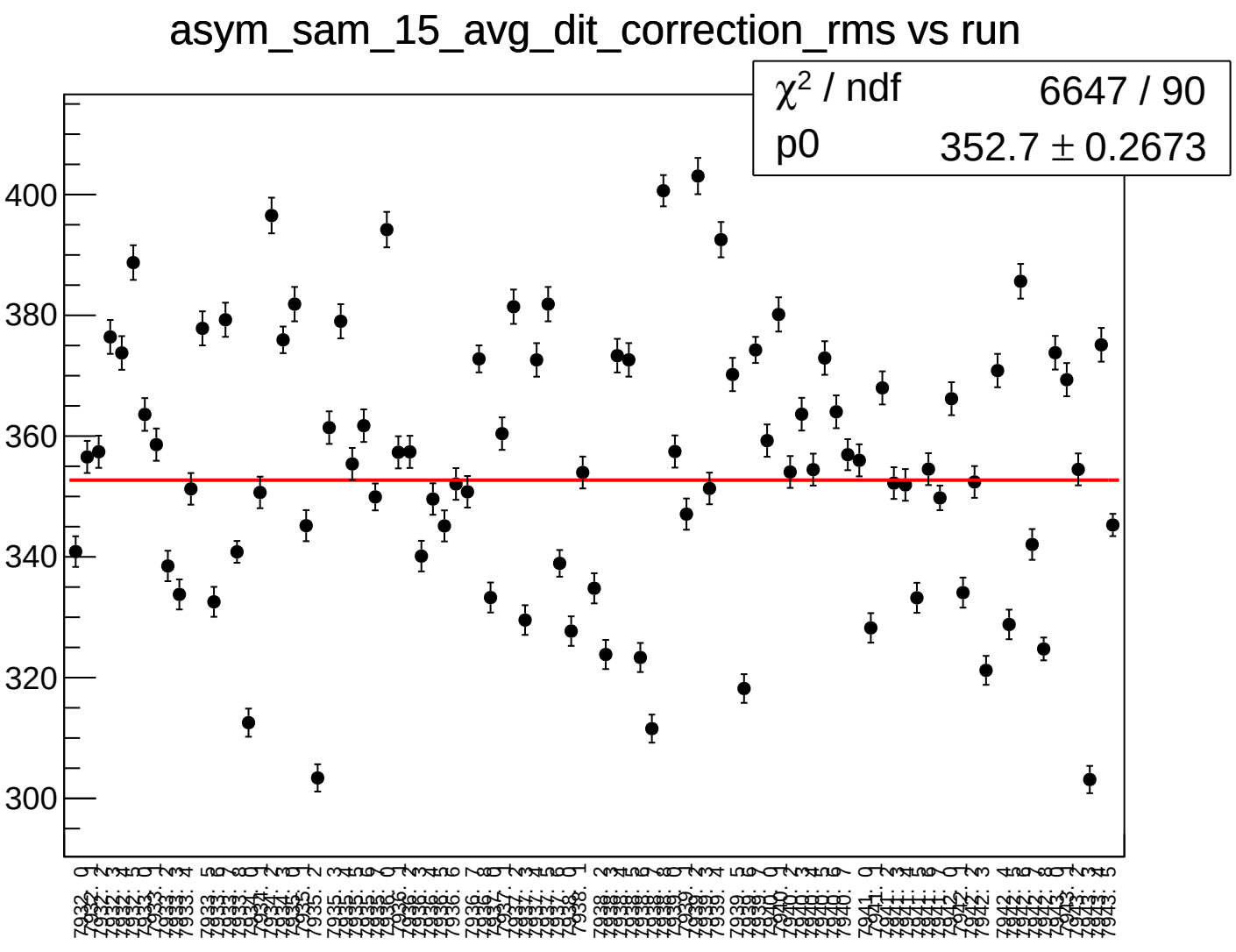

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 7735 / 90
p0 351.9 ± 0.2667
400
380
360
340
320
300

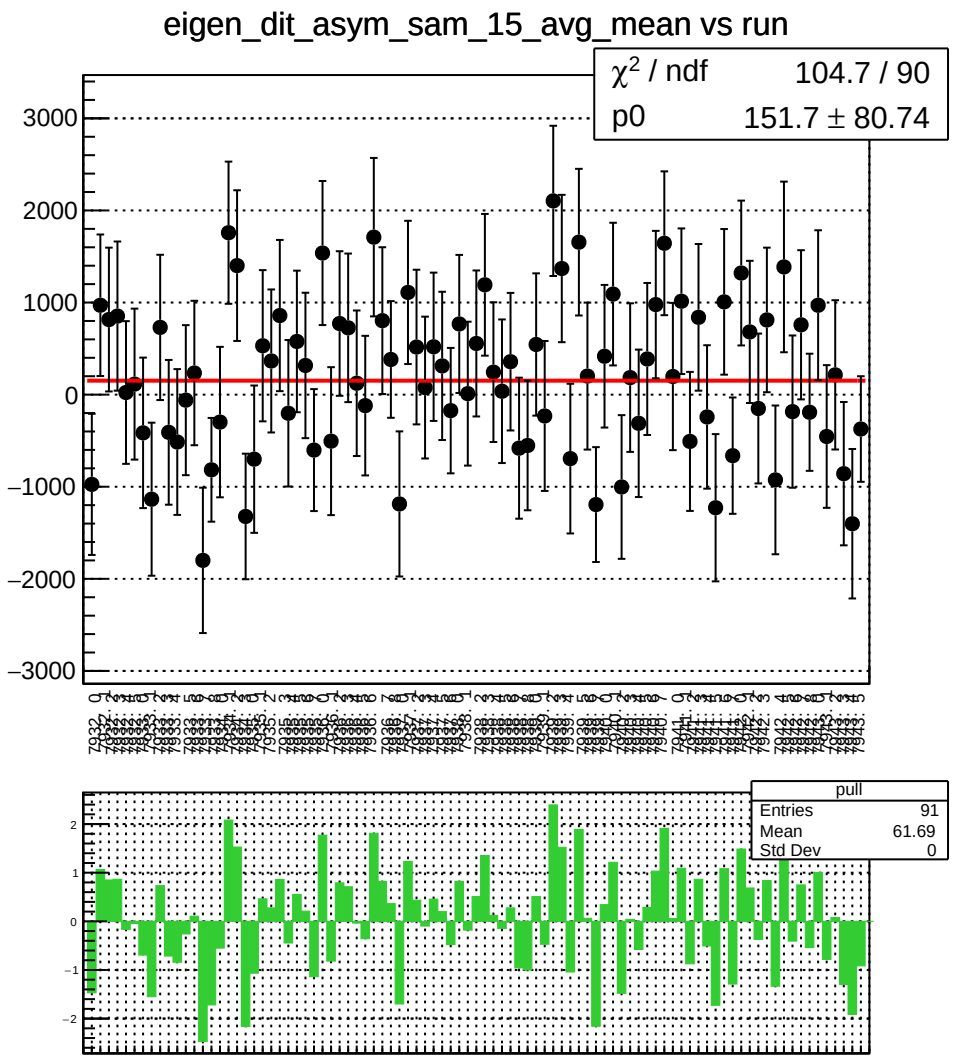

dit_asym_sam_15_avg_mean vs run
χ² / ndf 104.7 / 90
p0 151.7 ± 80.74
pull
Entries 91
Mean 61.69
Std Dev 0

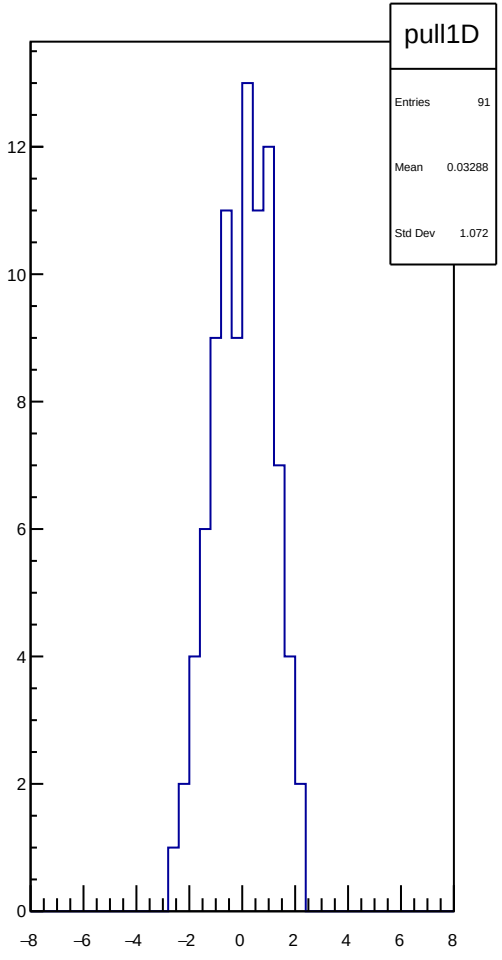

pull1D
Entries 91
Mean 0.03288
Std Dev 1.072

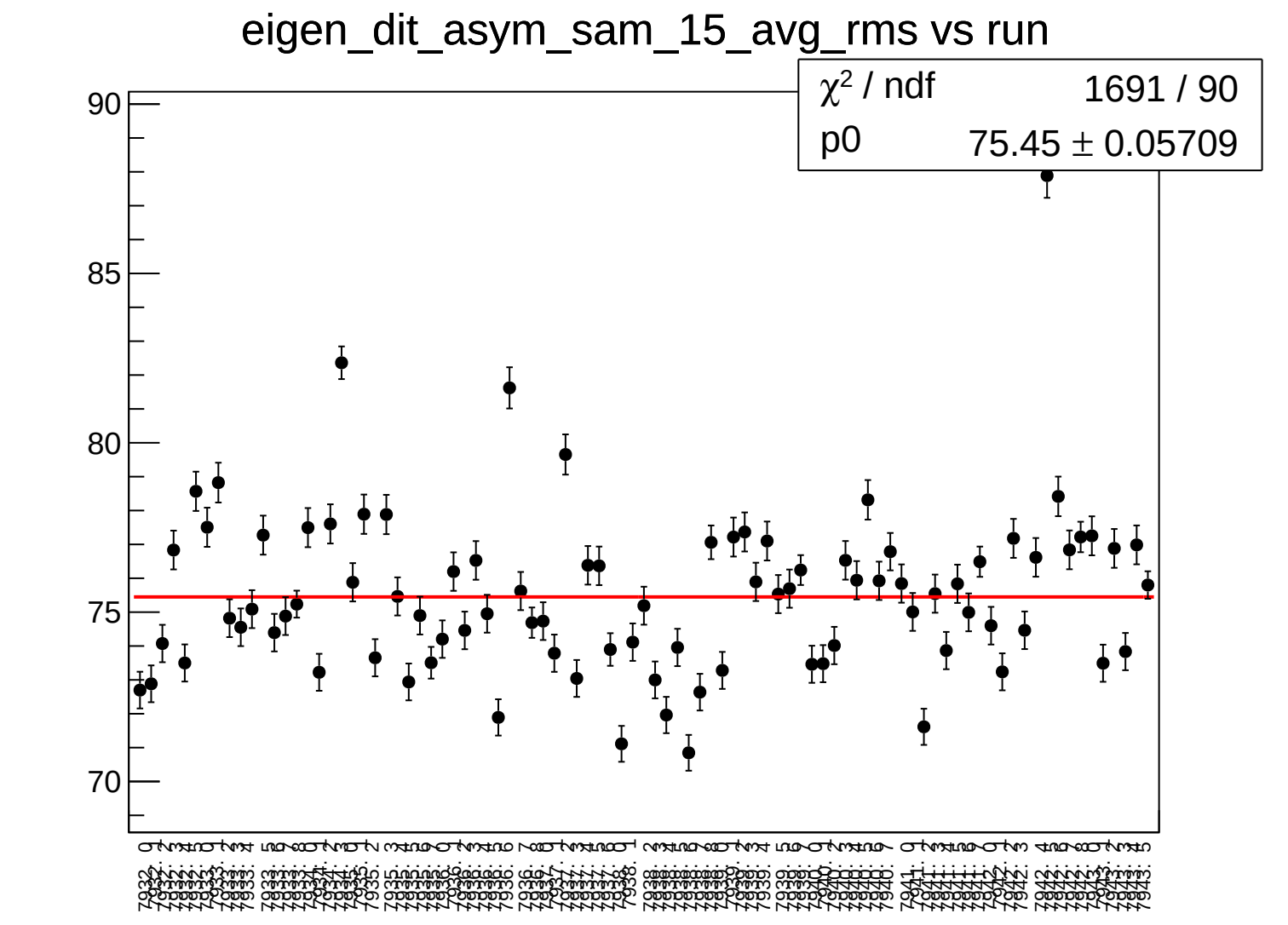

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1691 / 90
p0 75.45 ± 0.05709
90
85
80
75
70

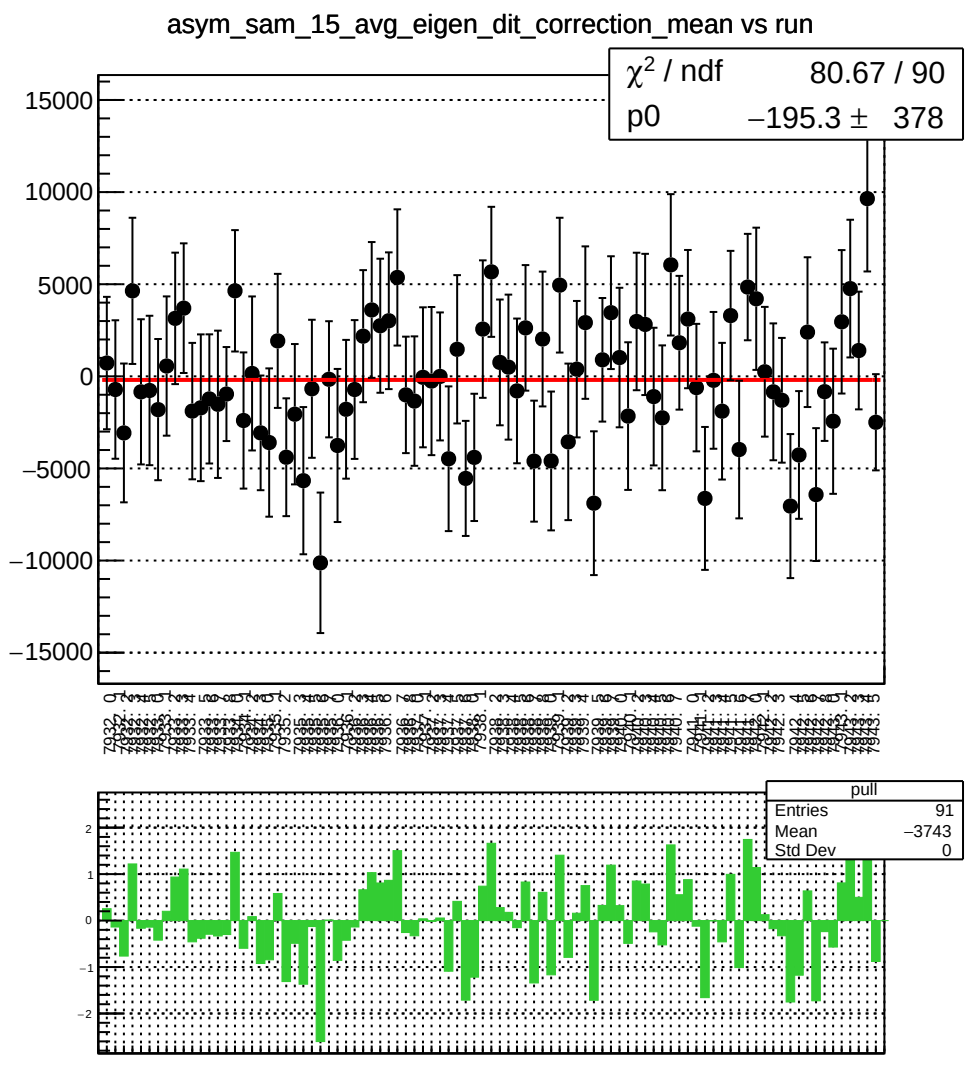

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 80.67 / 90
p0 −195.3 ± 378
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −3744
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0005618
Std Dev 0.9415
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

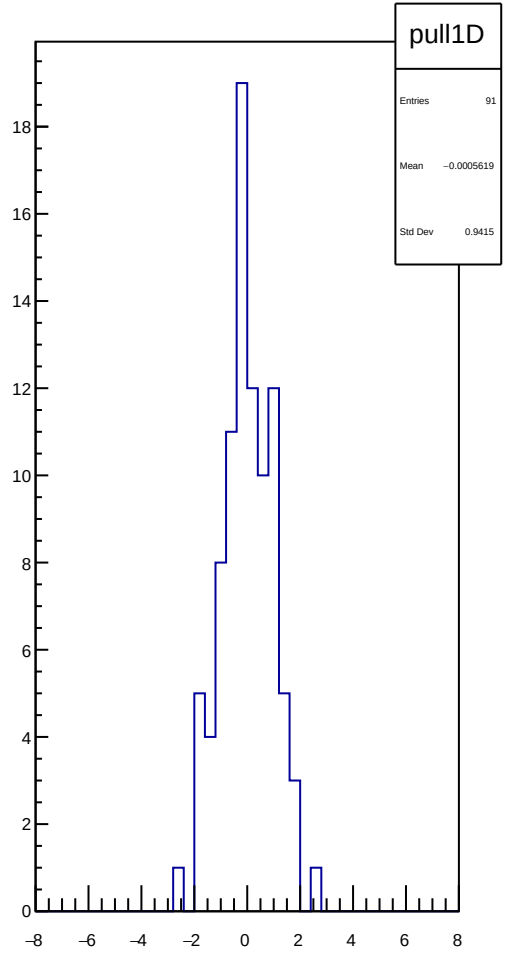

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 6647 / 90
p0 352.7 ± 0.2673
400
380
360
340
320
300

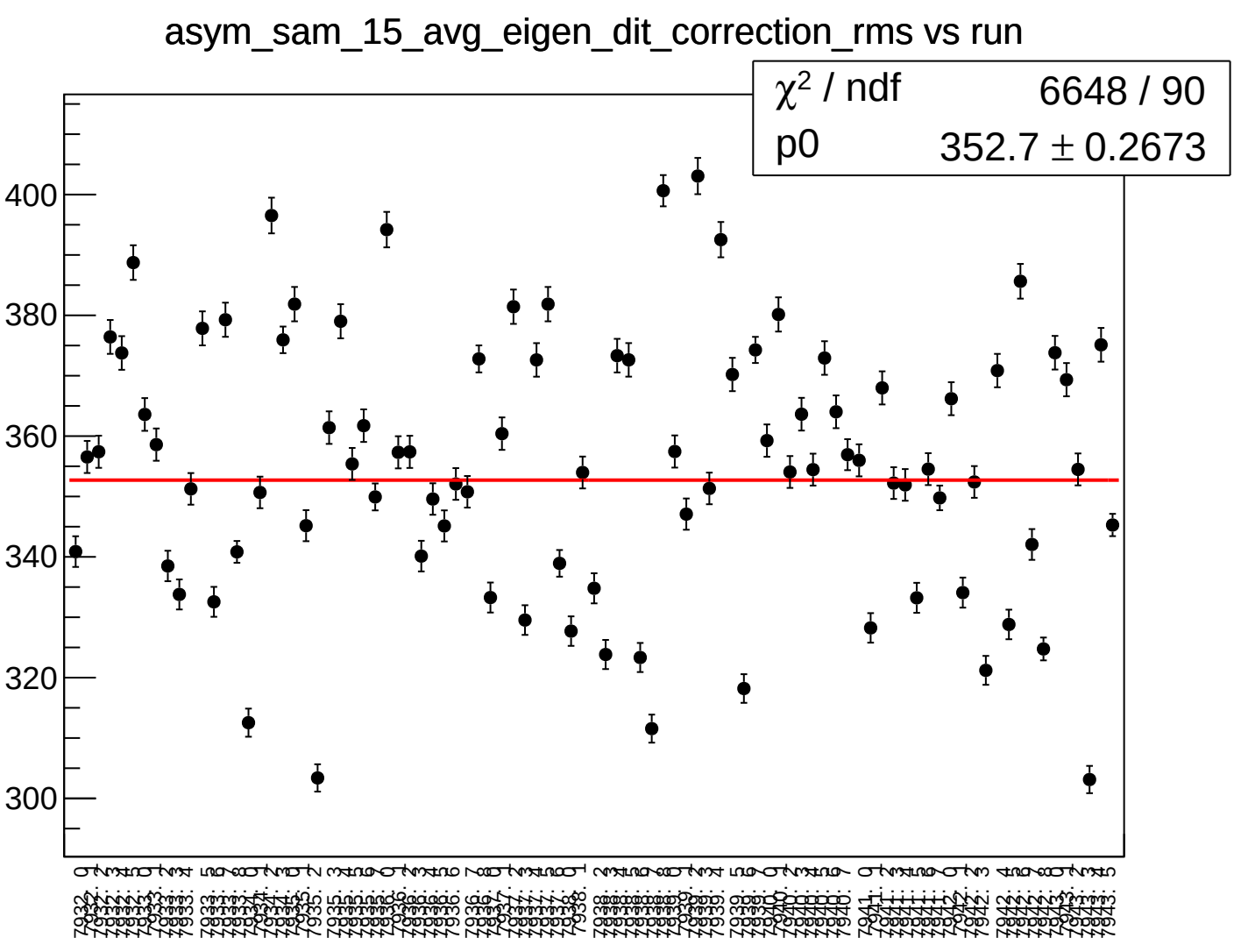

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 104.7 / 90
p0 151.7 ± 80.74
pull
Entries 91
Mean 61.69
Std Dev 0

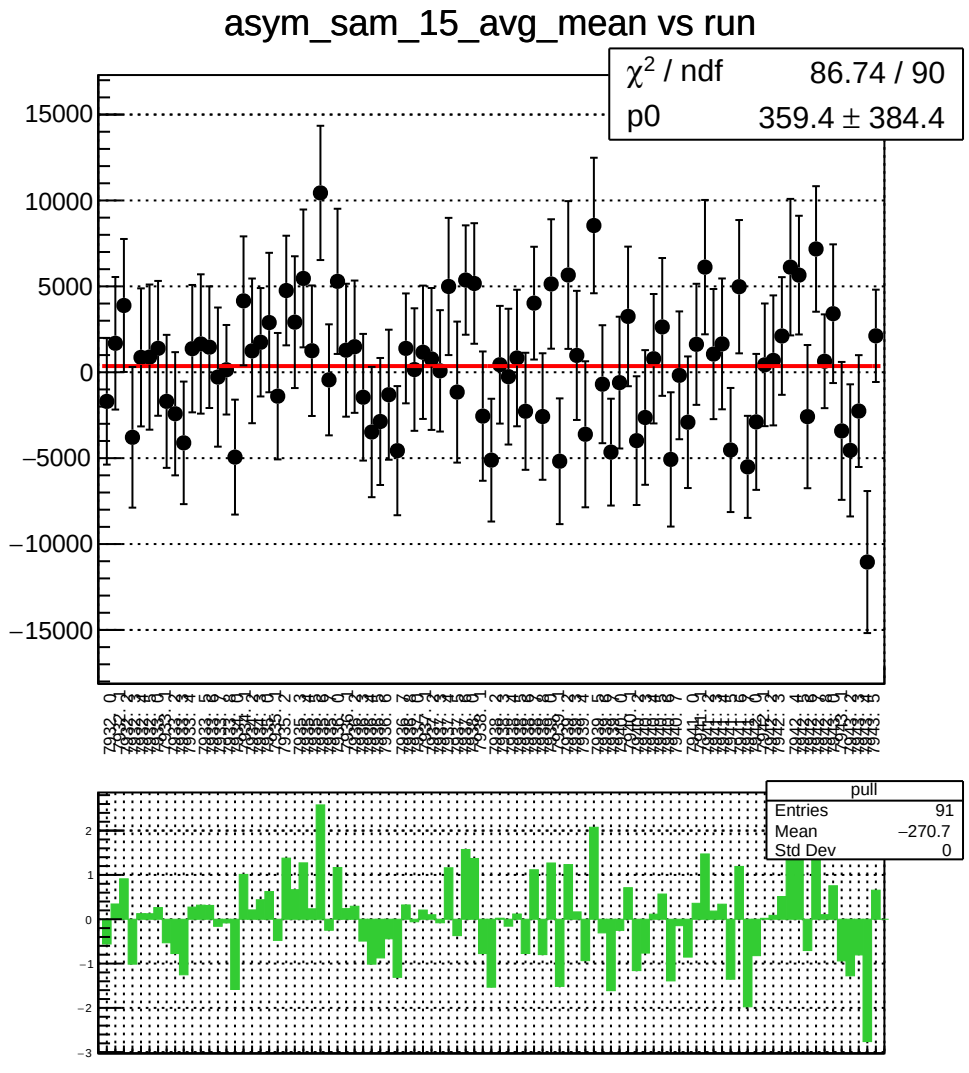

pull1D
Entries 91
Mean 0.03288
Std Dev 1.072

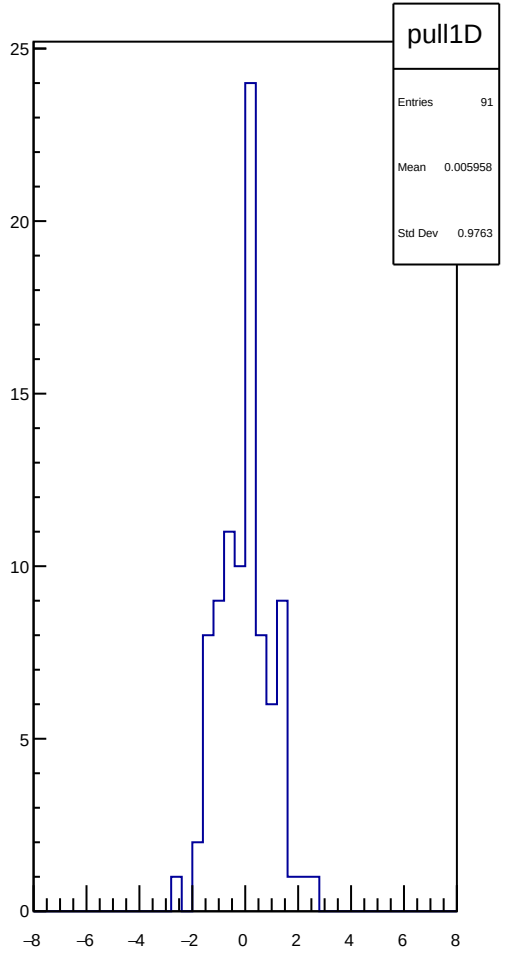

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1691 / 90
p0 75.45 ± 0.05709
90
85
80
75
70

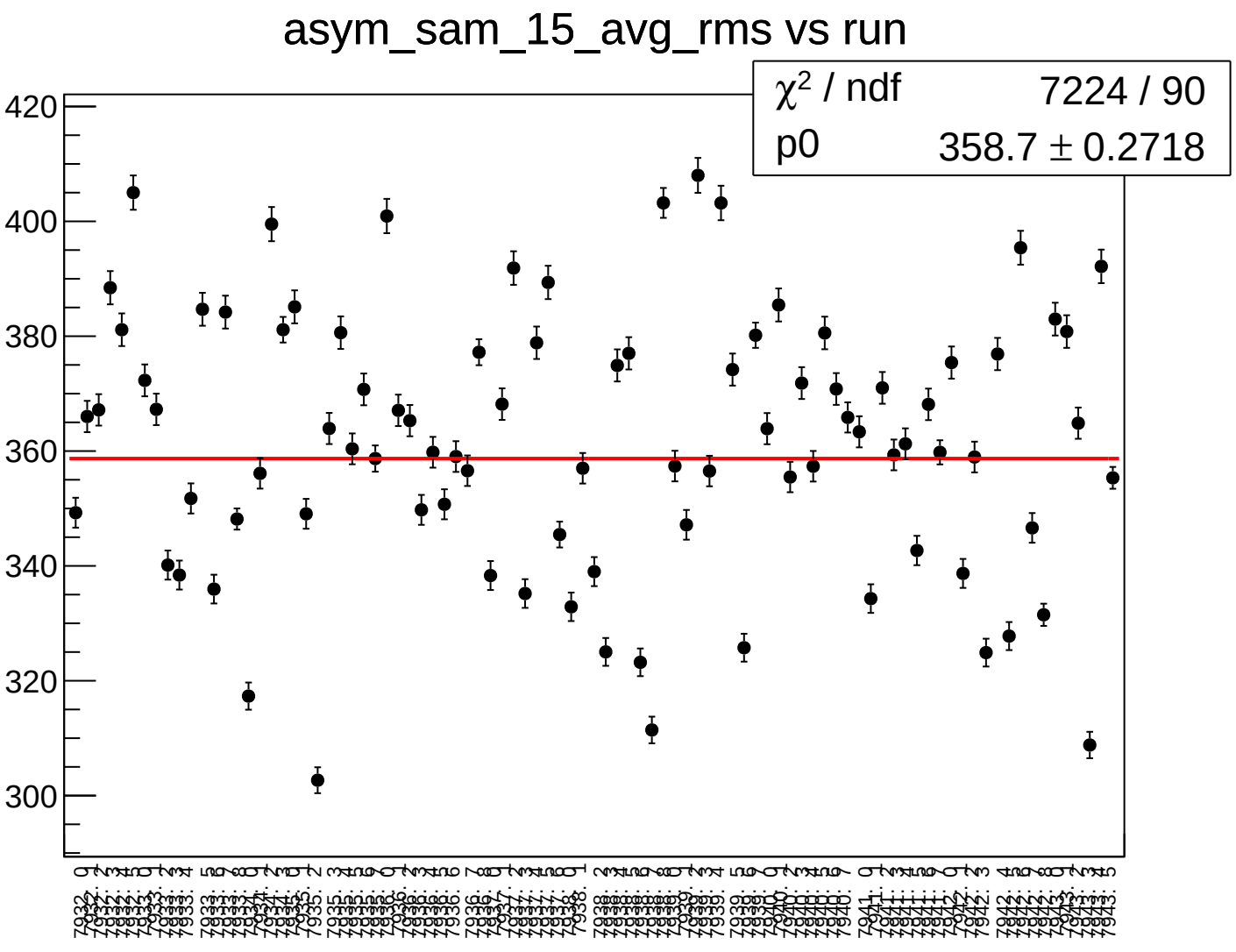

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.67 / 90
p0 −195.3 ± 378
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −3743
Std Dev 0
2
1
0
−1
−2

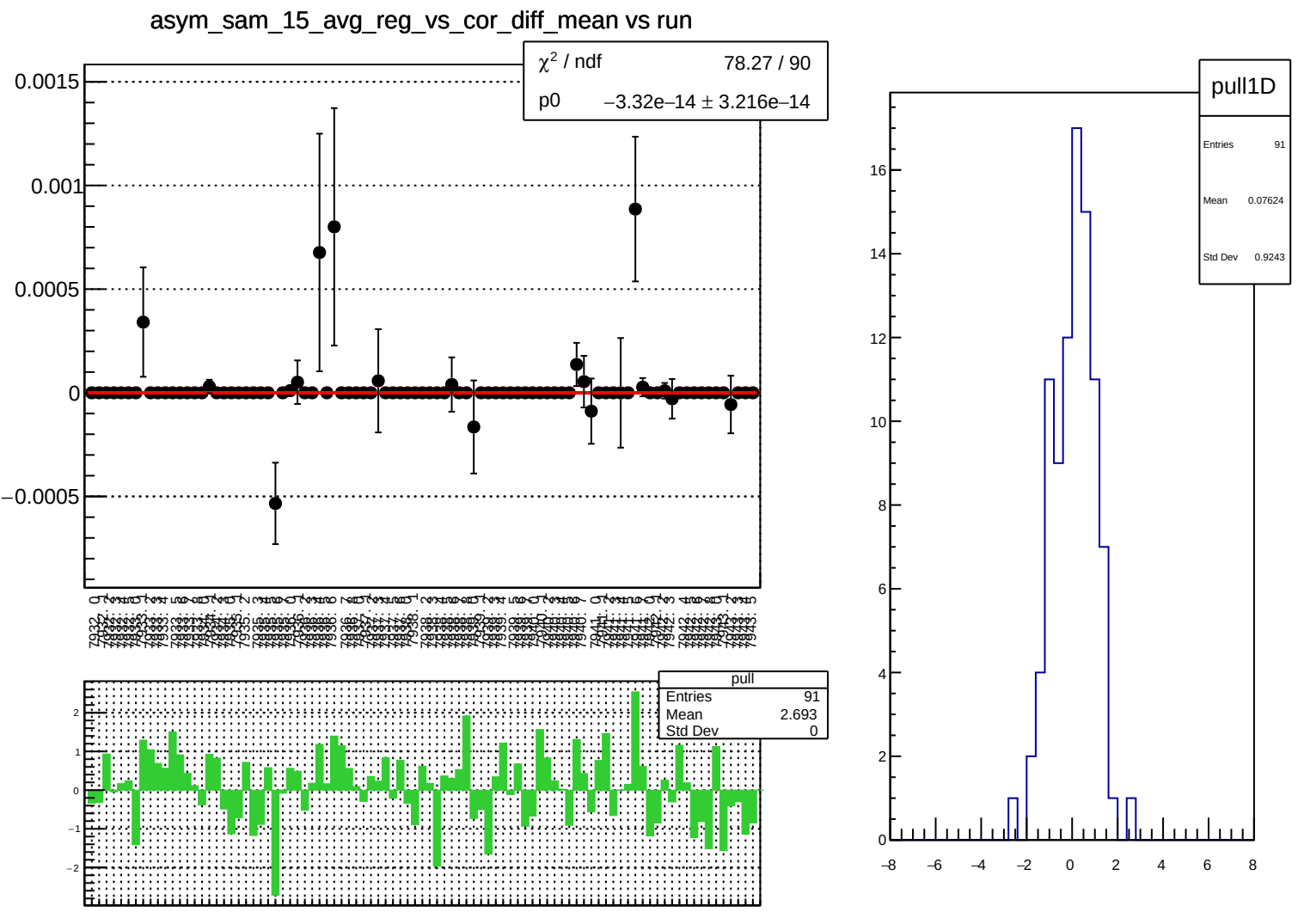

pull1D
Entries 91
Mean −0.0005619
Std Dev 0.9415
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

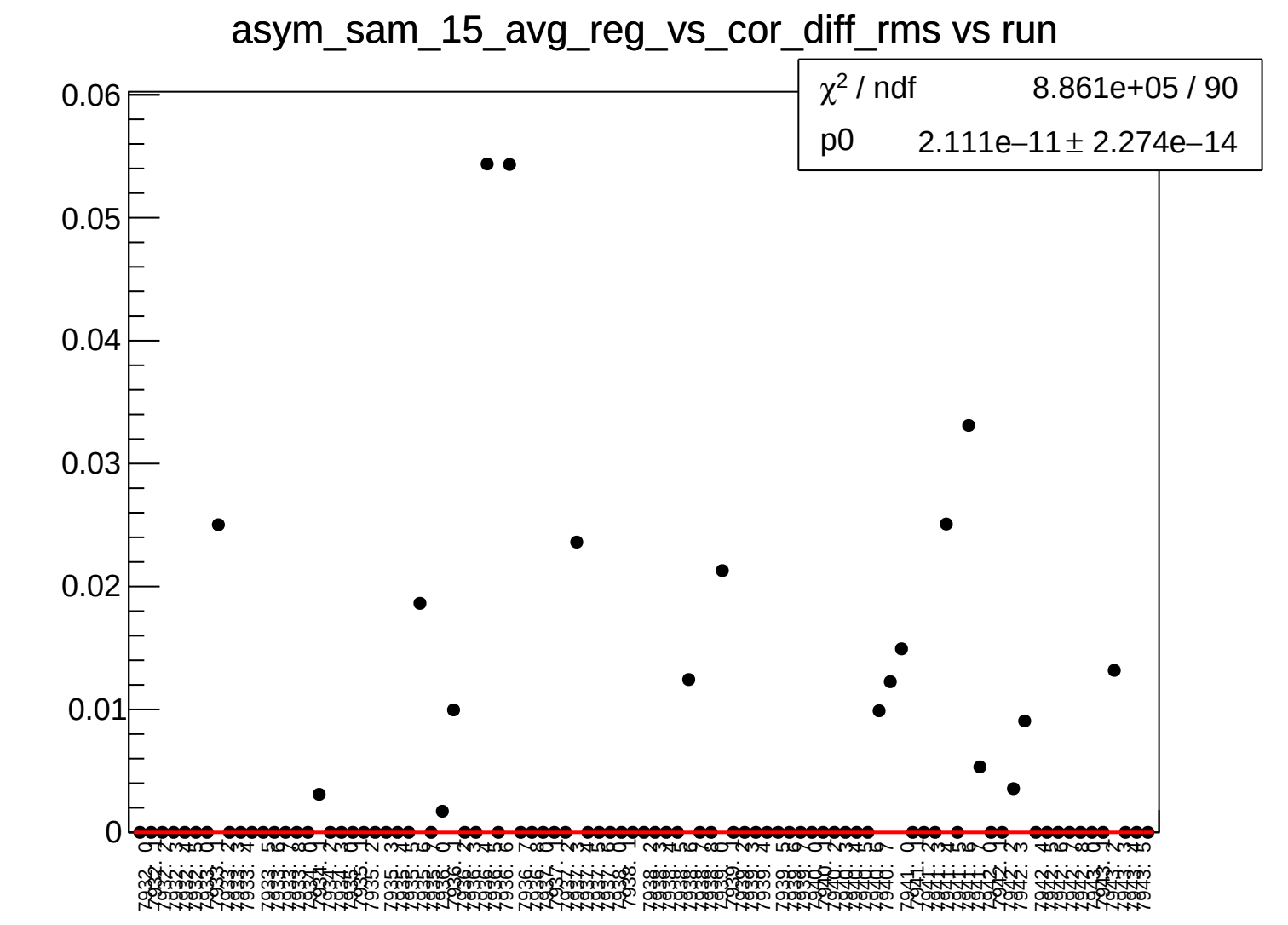

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 6648 / 90
p0 352.7 ± 0.2673
400
380
360
340
320
300

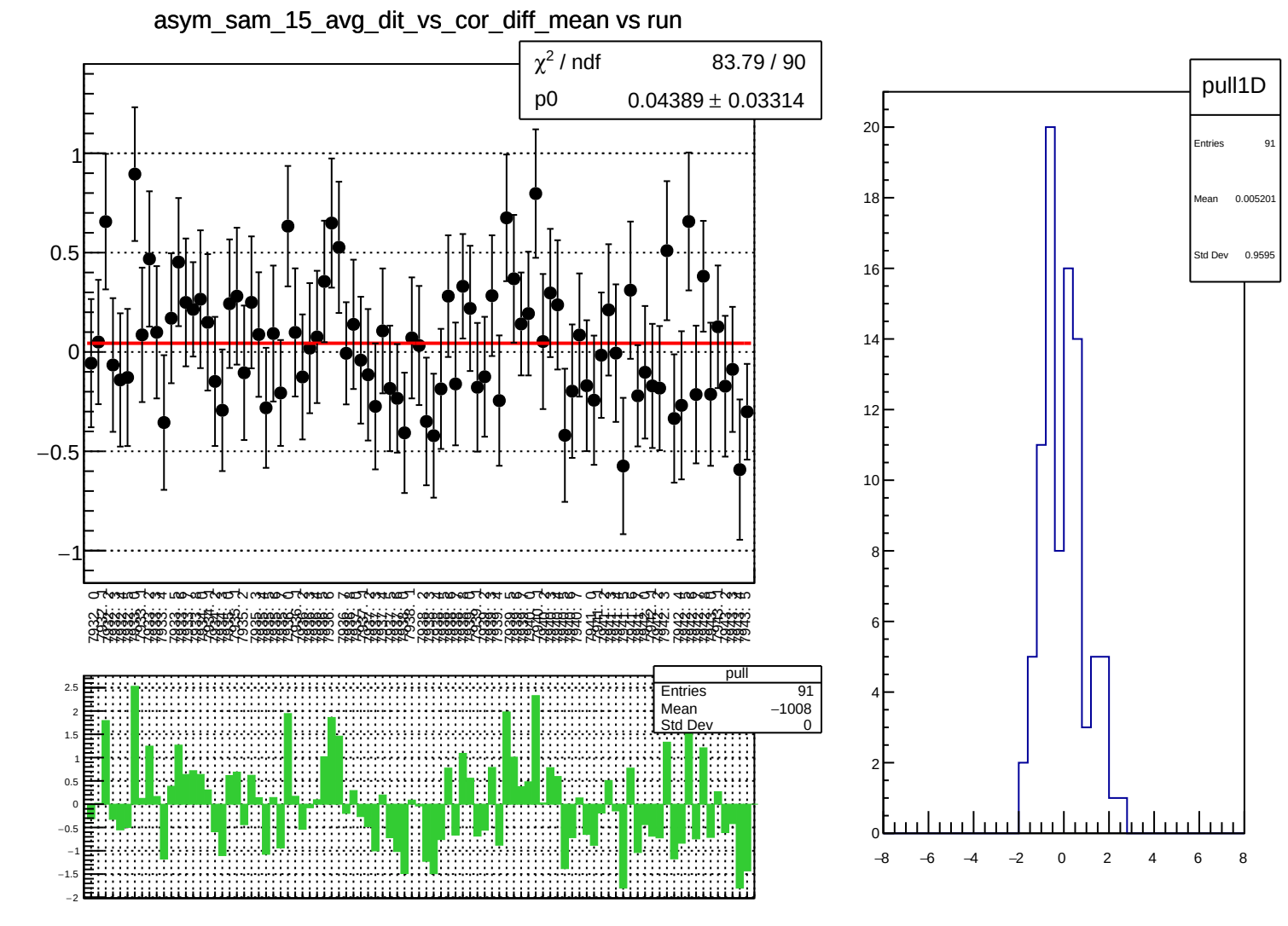

asym_sam_15_avg_mean vs run
χ² / ndf 86.74 / 90
p0 359.4 ± 384.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −270.7
Std Dev 0
2
1
0
−1
−2
−3

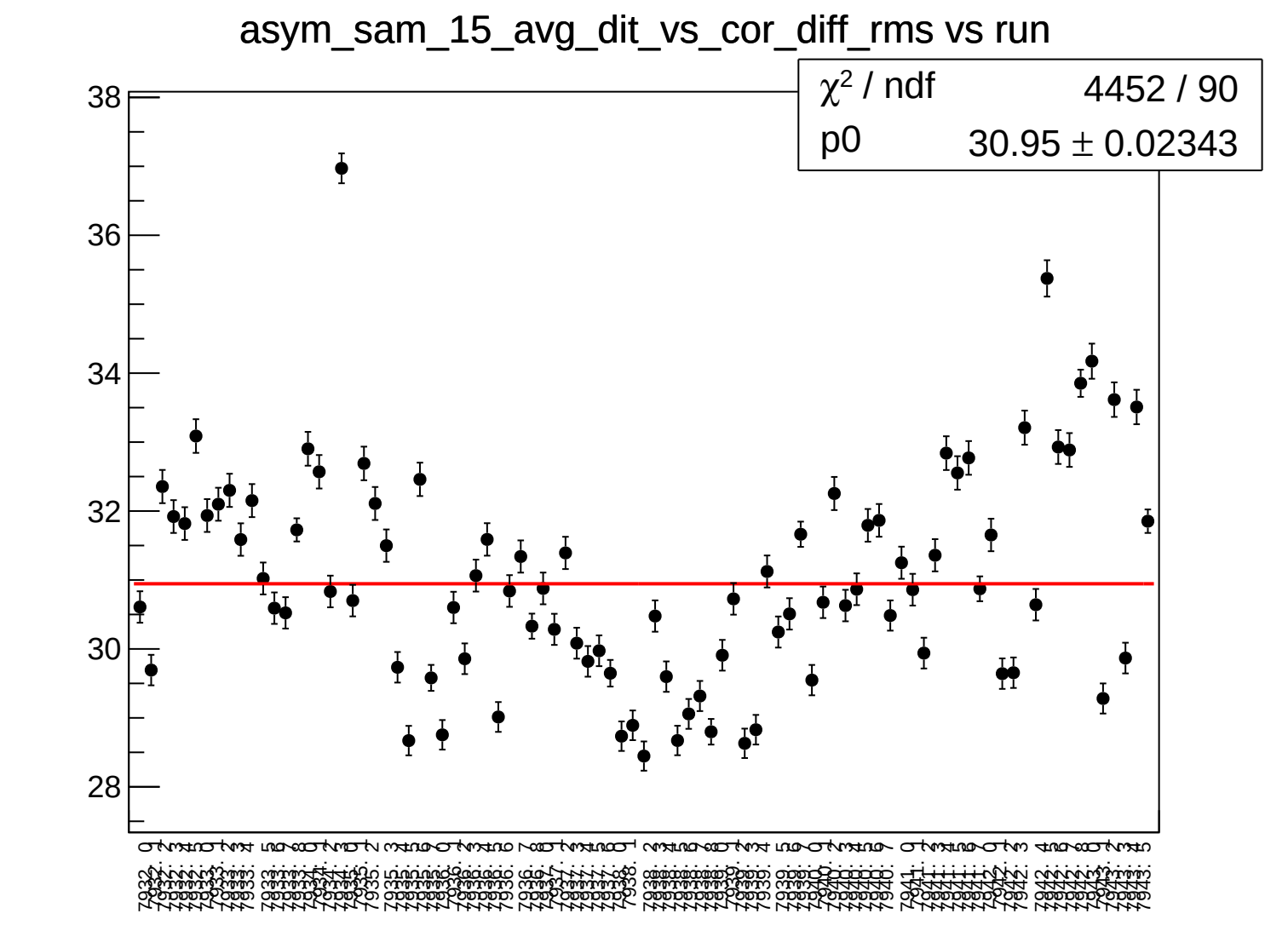

pull1D
Entries 91
Mean 0.005958
Std Dev 0.9763
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

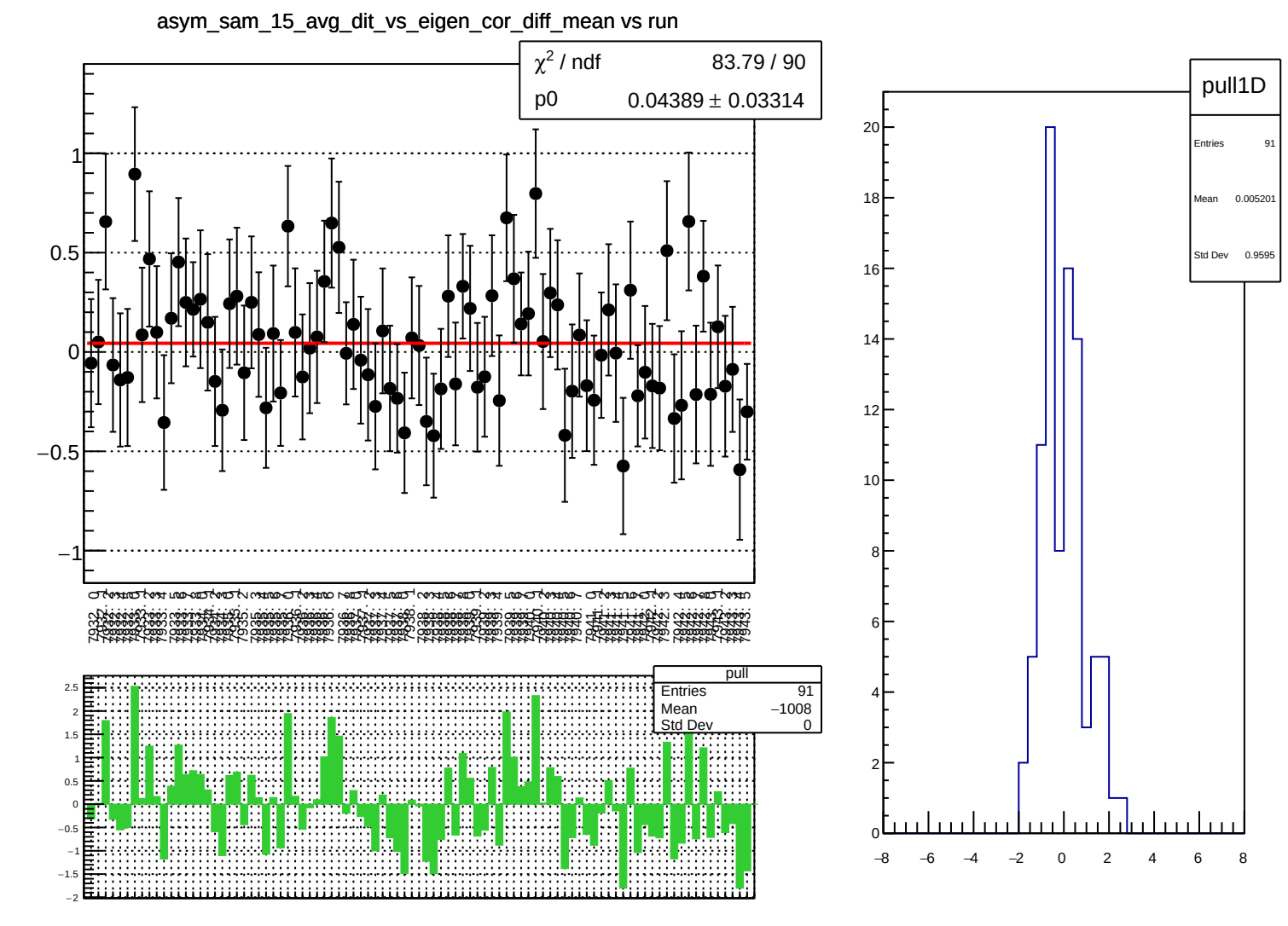

asym_sam_15_avg_rms vs run
χ² / ndf 7224 / 90
p0 358.7 ± 0.2718
420
400
380
360
340
320
300

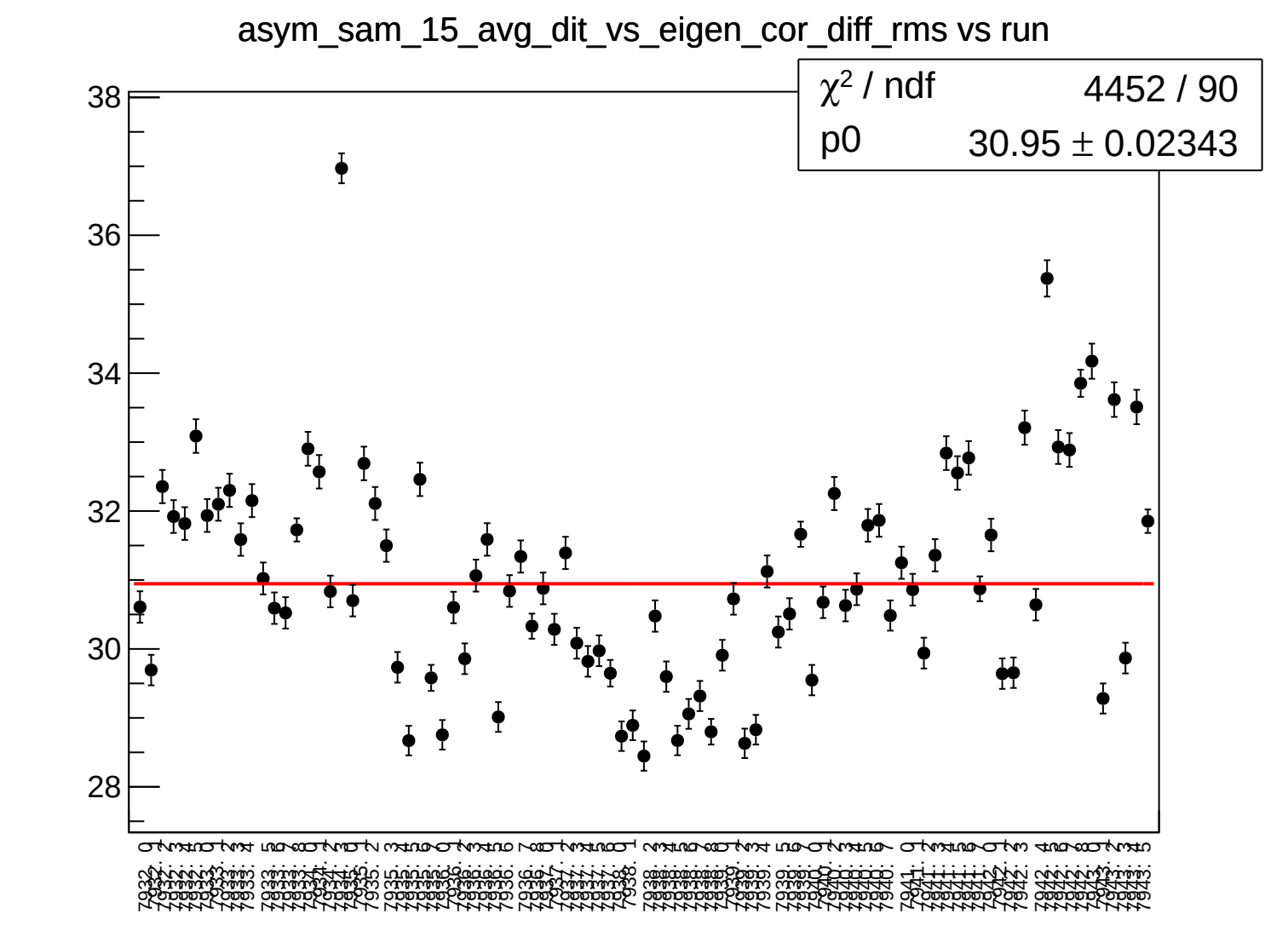

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.27 / 90
p0 −3.32e−14 ± 3.216e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 91
Mean 2.693
Std Dev 0
pull1D
Entries 91
Mean 0.07624
Std Dev 0.9243

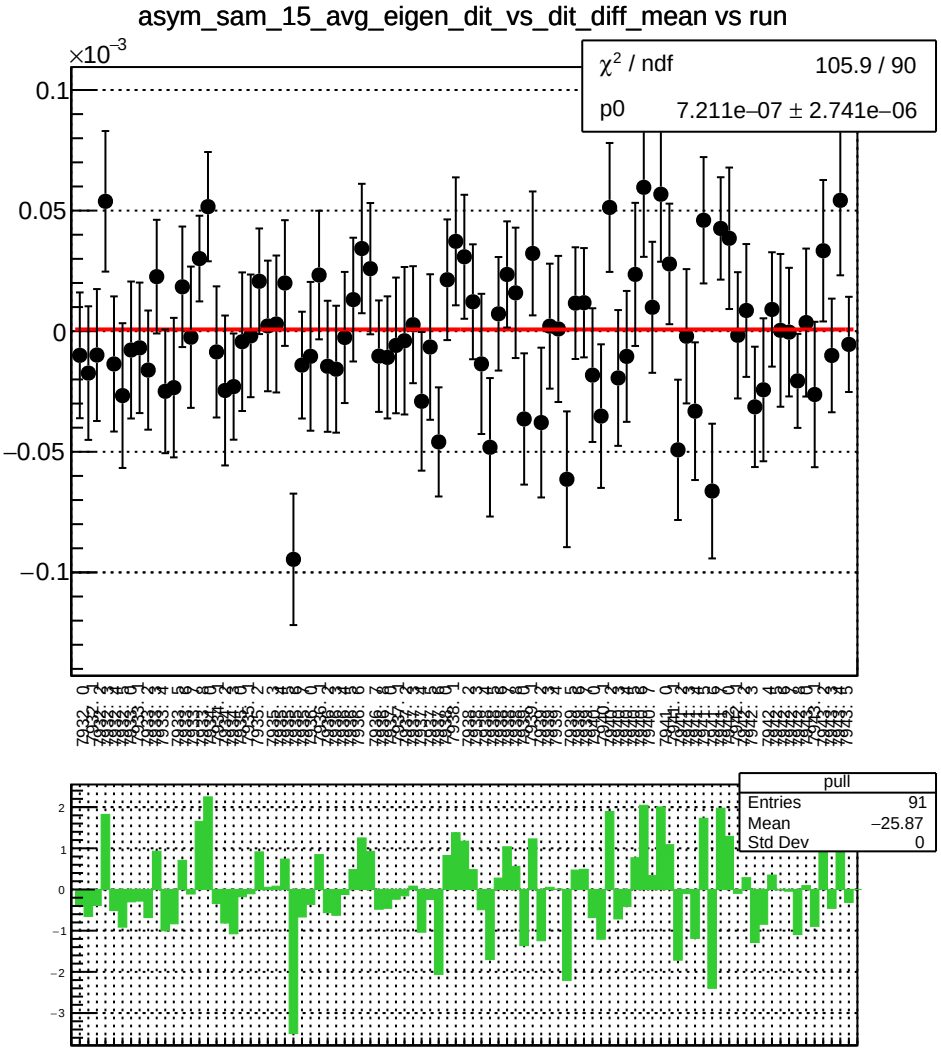

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 8.861e+05 / 90
p0 2.111e−11 ± 2.274e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

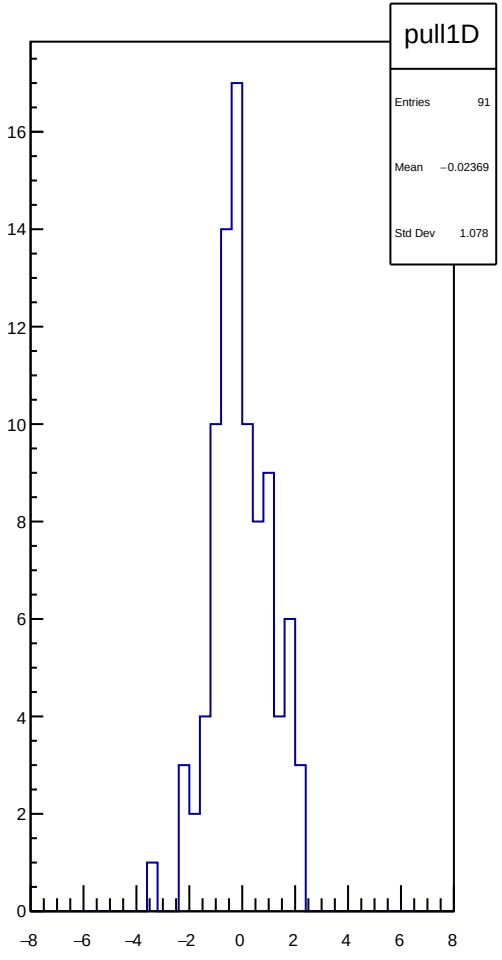

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.79 / 90
p0 0.04389 ± 0.03314
pull
Entries 91
Mean −1008
Std Dev 0
pull1D
Entries 91
Mean 0.005201
Std Dev 0.9595

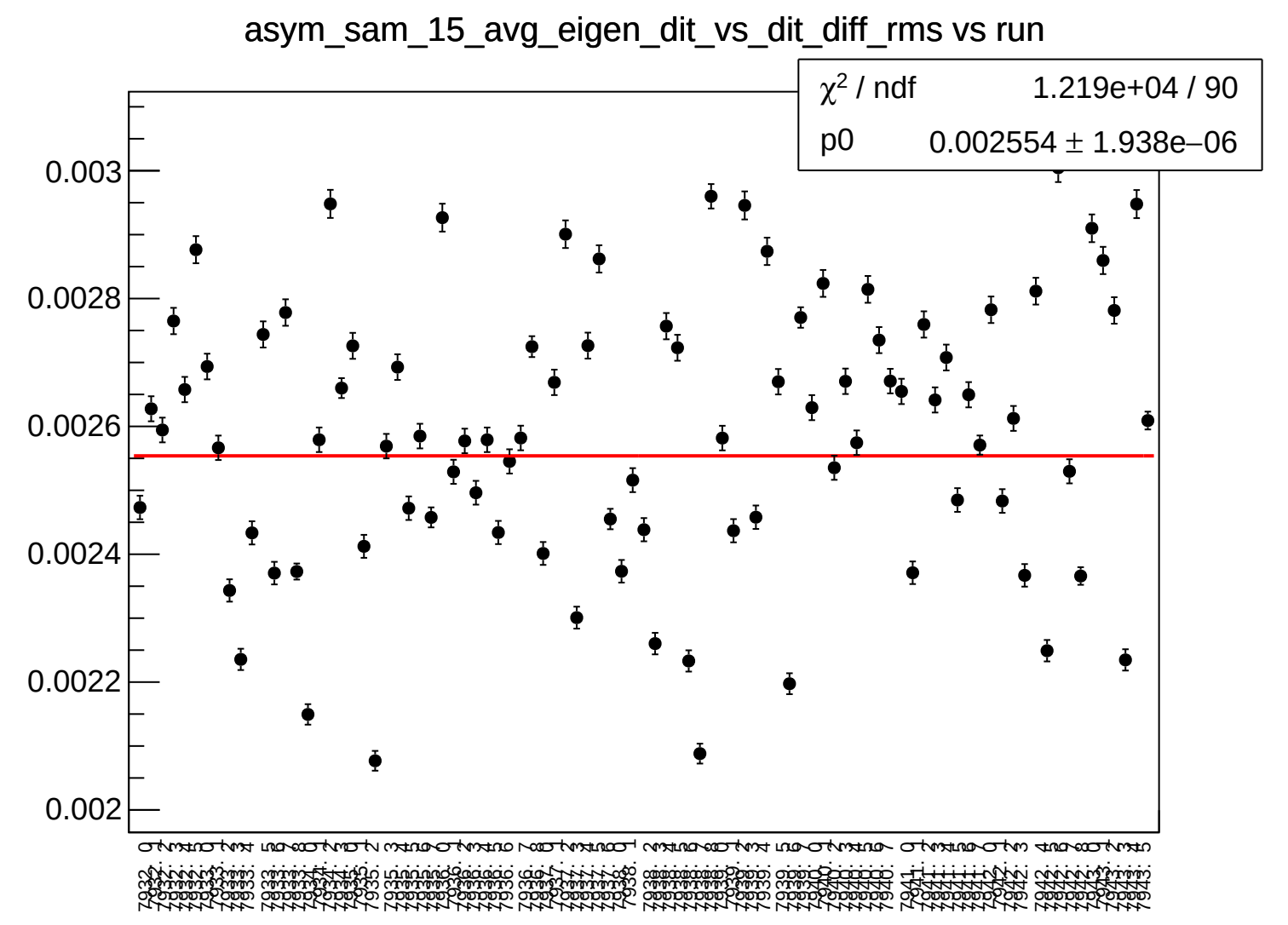

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4452 / 90
p0 30.95 ± 0.02343
38
36
34
32
30
28

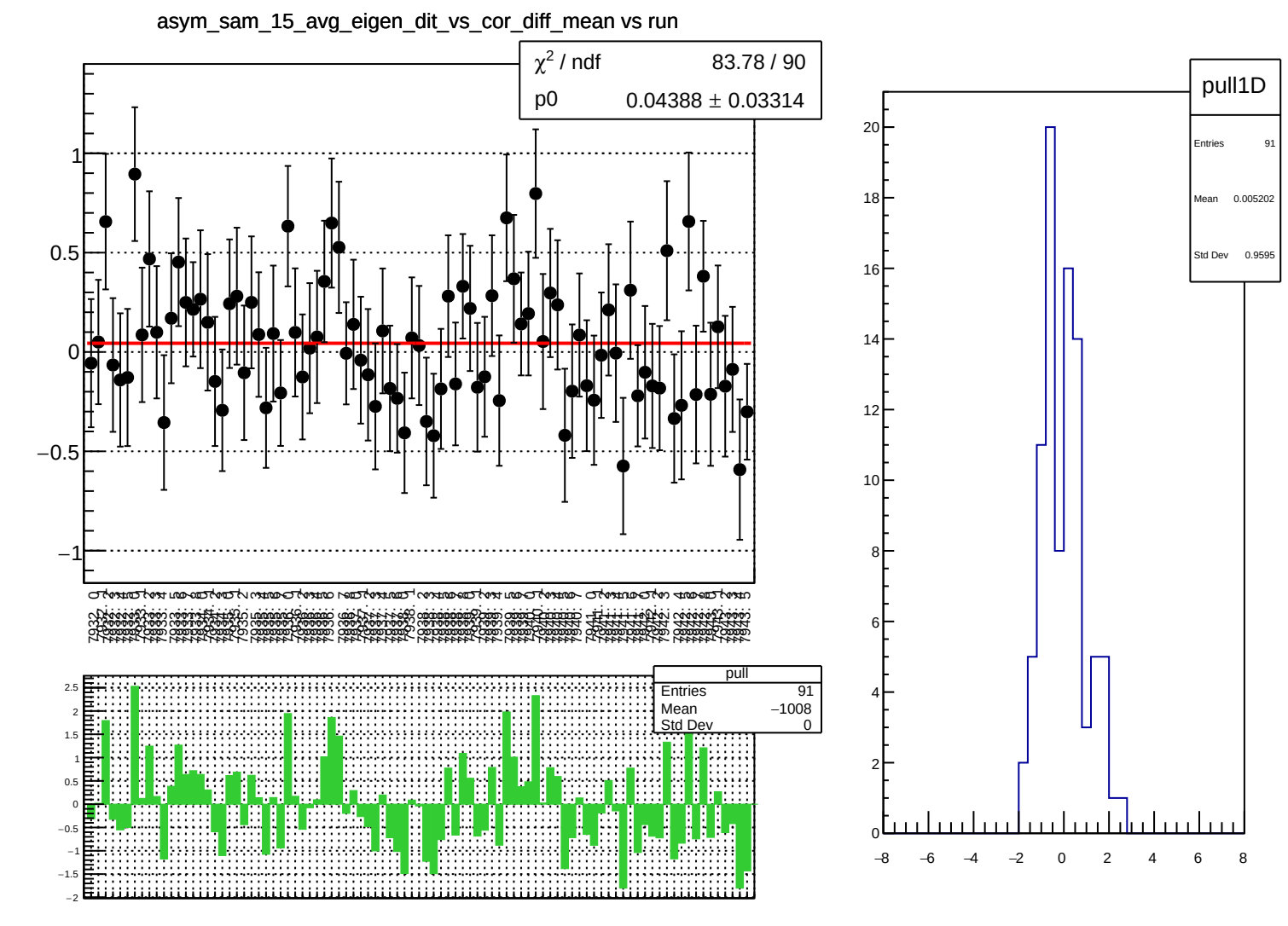

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.79 / 90
p0 0.04389 ± 0.03314
pull
Entries 91
Mean −1008
Std Dev 0
pull1D
Entries 91
Mean 0.005201
Std Dev 0.9595

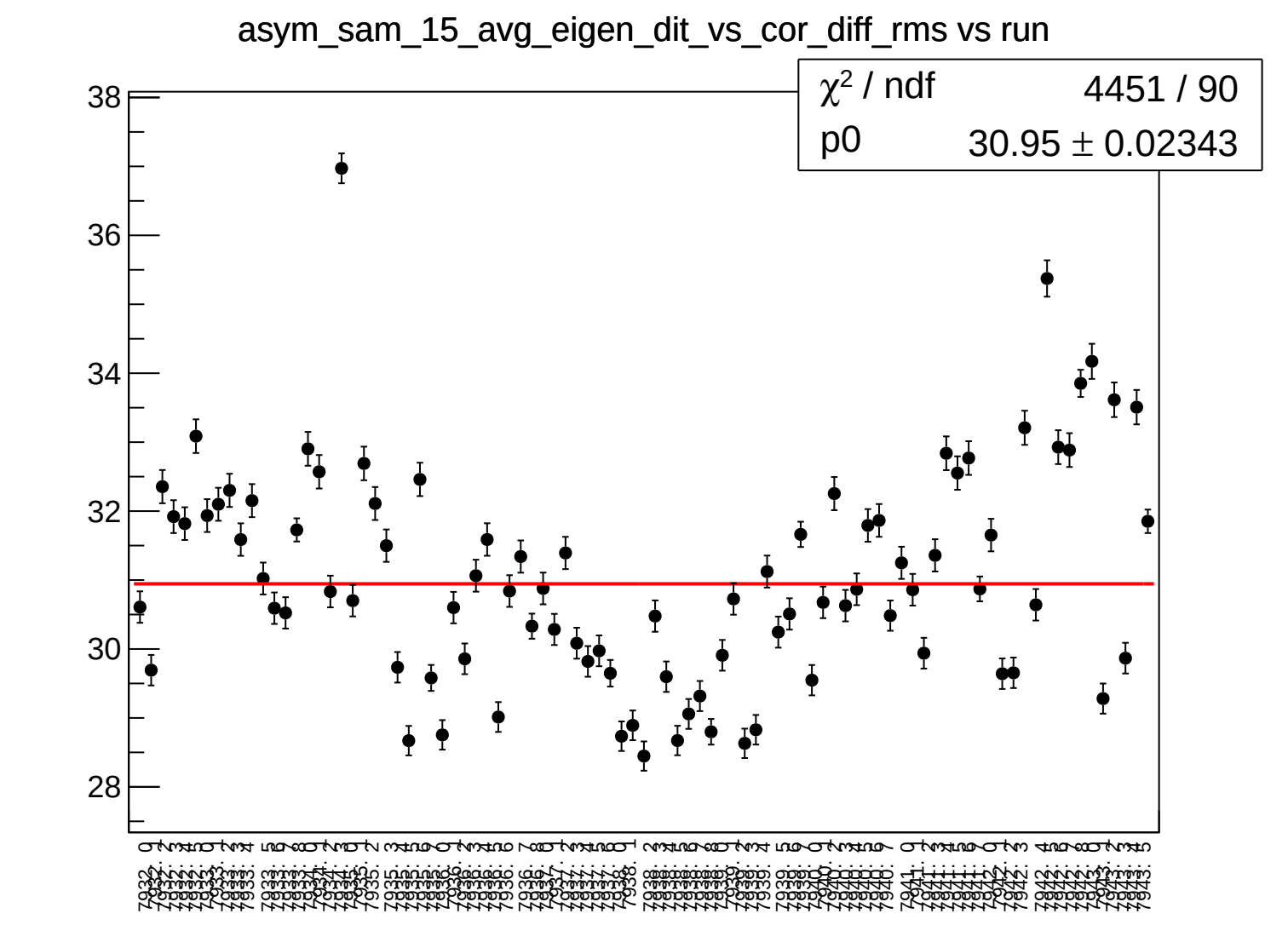

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4452 / 90
p0 30.95 ± 0.02343
38
36
34
32
30
28

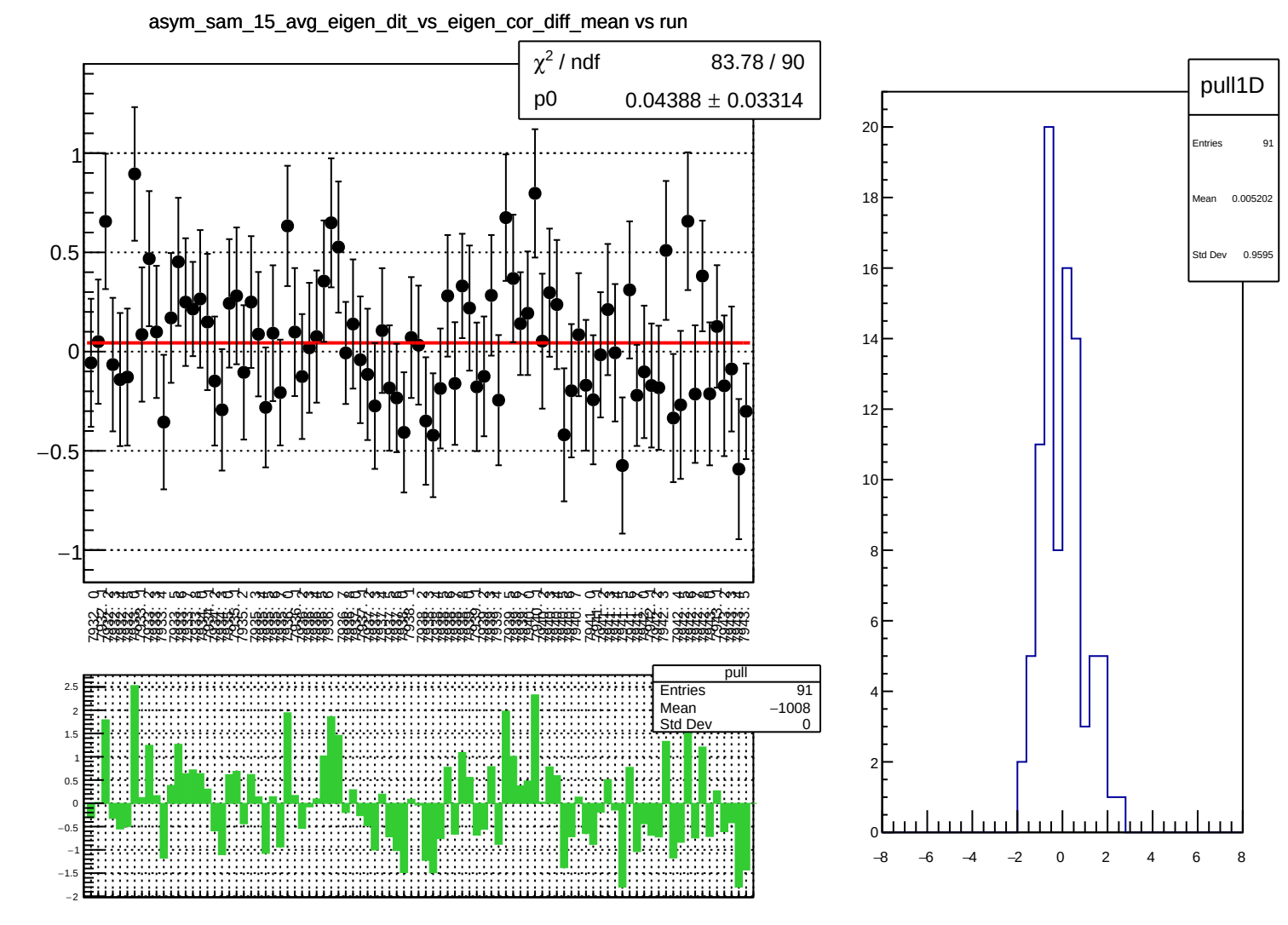

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.9 / 90
p0 7.211e−07 ± 2.741e−06
pull
Entries 91
Mean −25.87
Std Dev 0

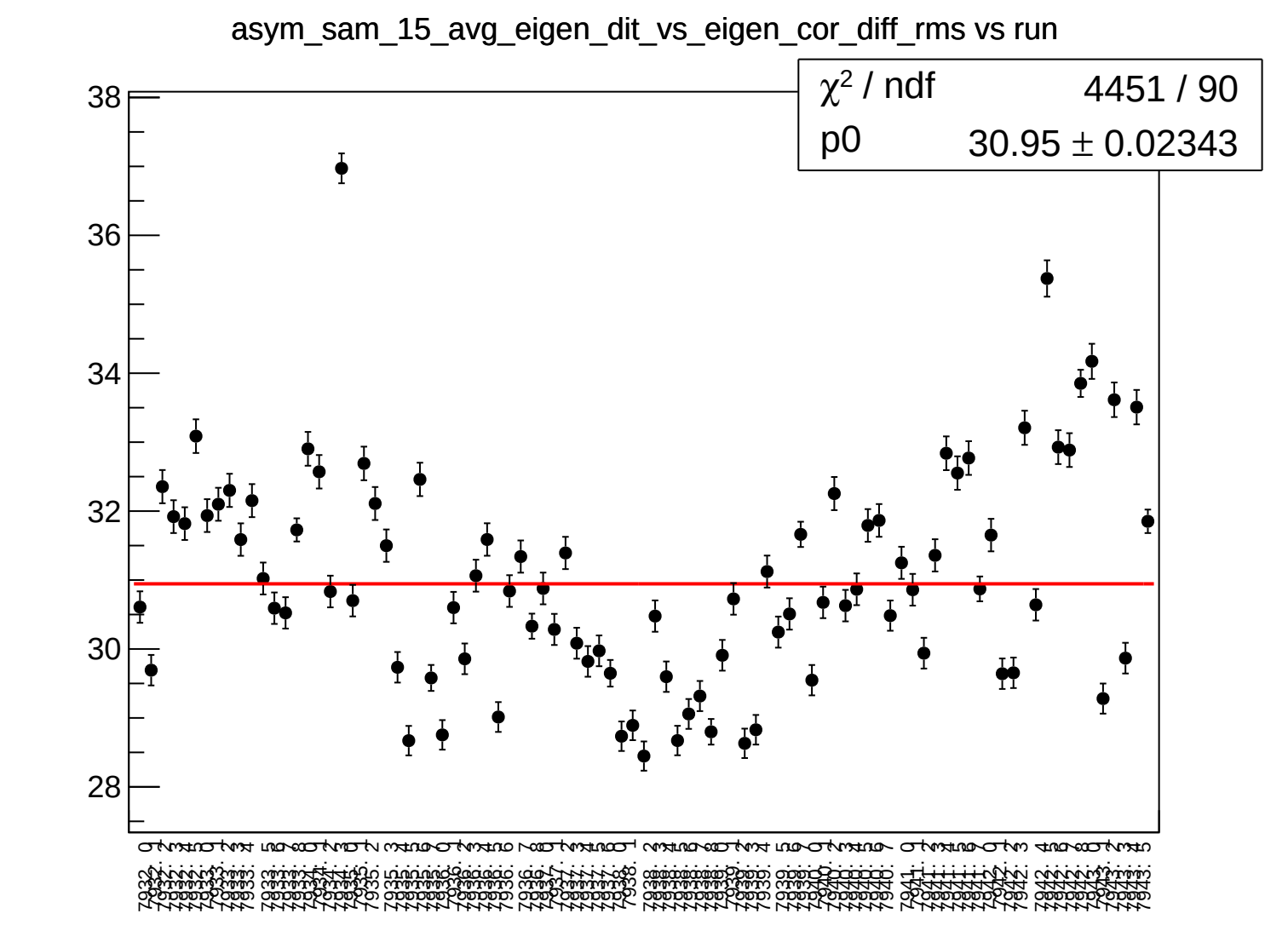

pull1D
Entries 91
Mean −0.02369
Std Dev 1.078

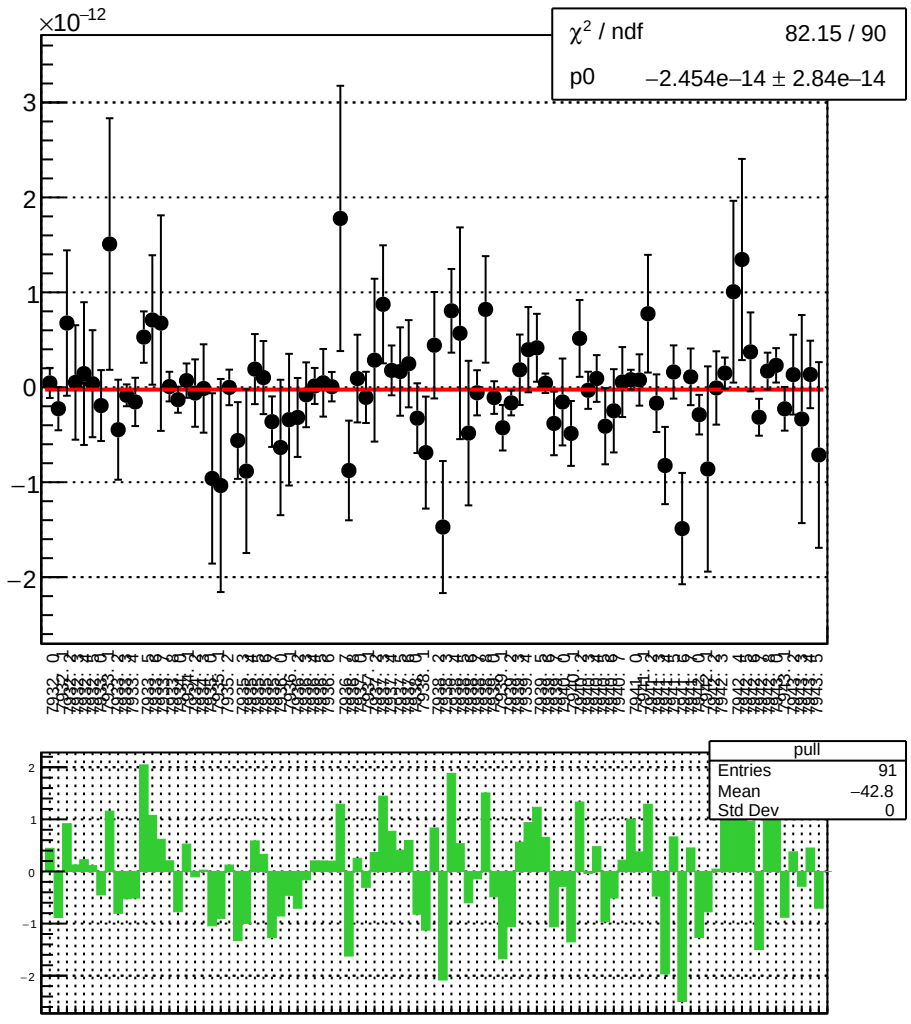

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.219e+04 / 90
p0 0.002554 ± 1.938e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

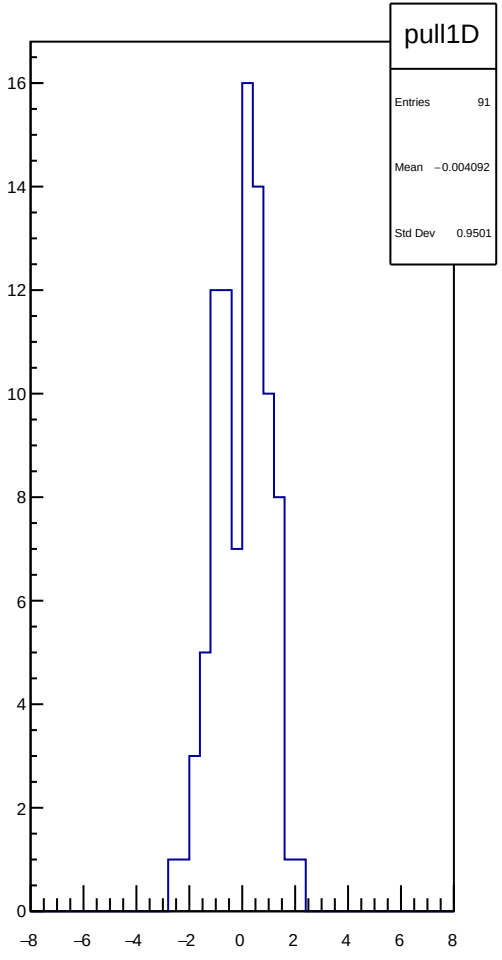

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.78 / 90
p0 0.04388 ± 0.03314
pull
Entries 91
Mean −1008
Std Dev 0
pull1D
Entries 91
Mean 0.005202
Std Dev 0.9595

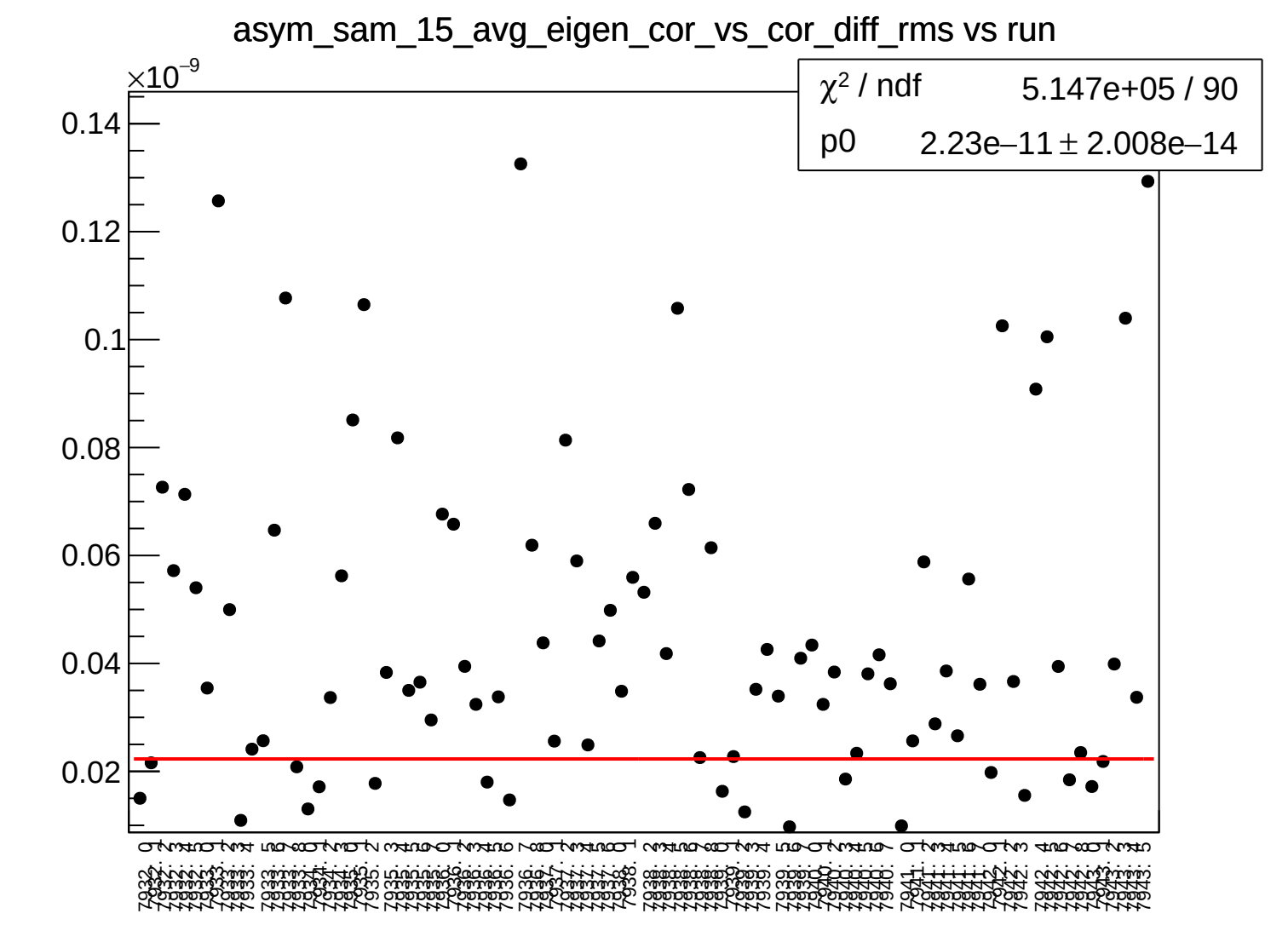

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4451 / 90
p0 30.95 ± 0.02343
38
36
34
32
30
28

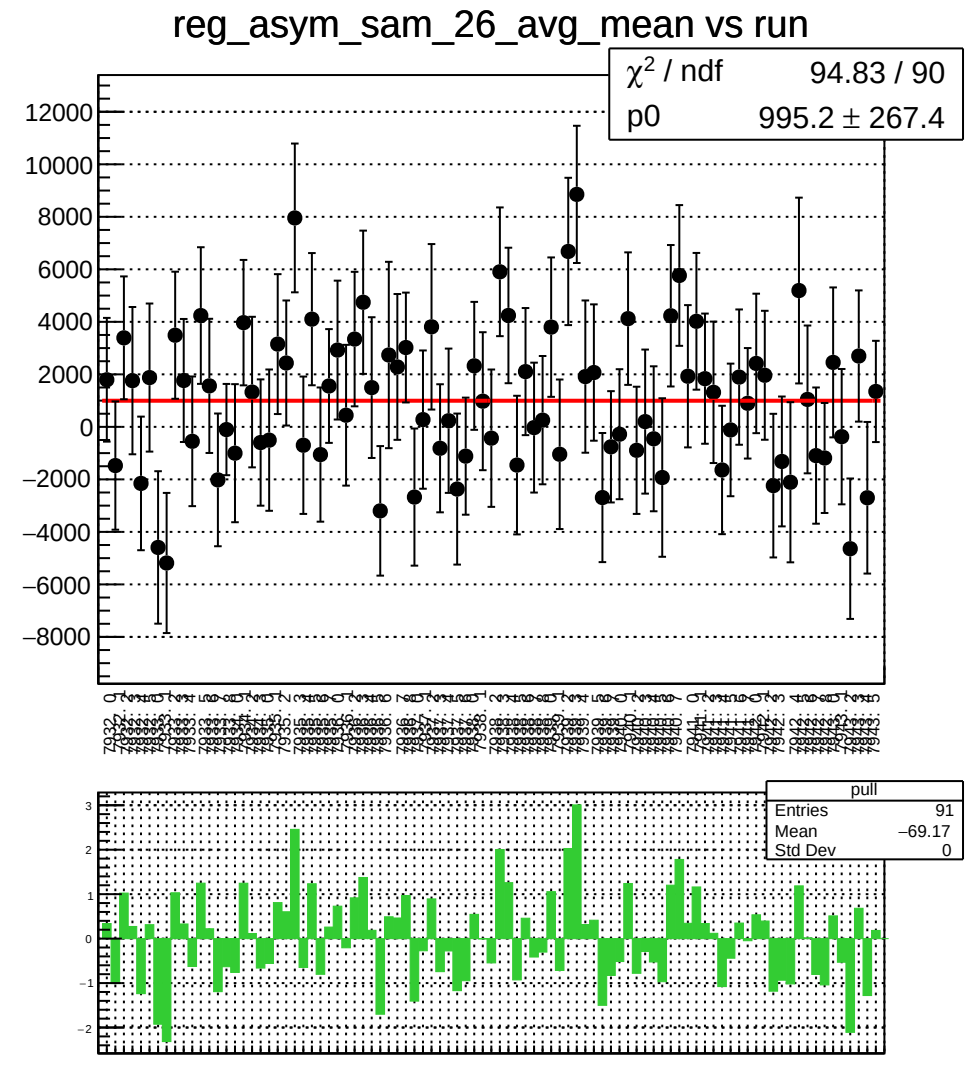

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.78 / 90
p0 0.04388 ± 0.03314
pull
Entries 91
Mean −1008
Std Dev 0
pull1D
Entries 91
Mean 0.005202
Std Dev 0.9595

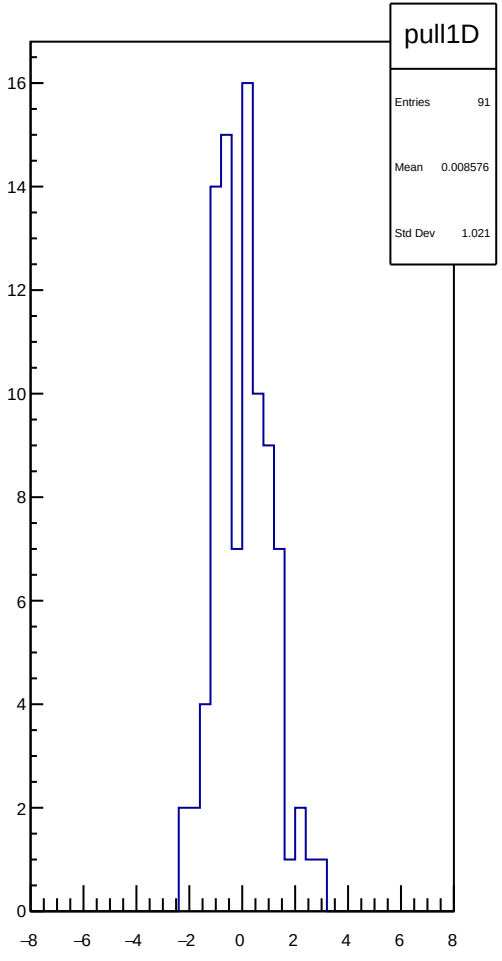

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4451 / 90
p0 30.95 ± 0.02343
38
36
34
32
30
28

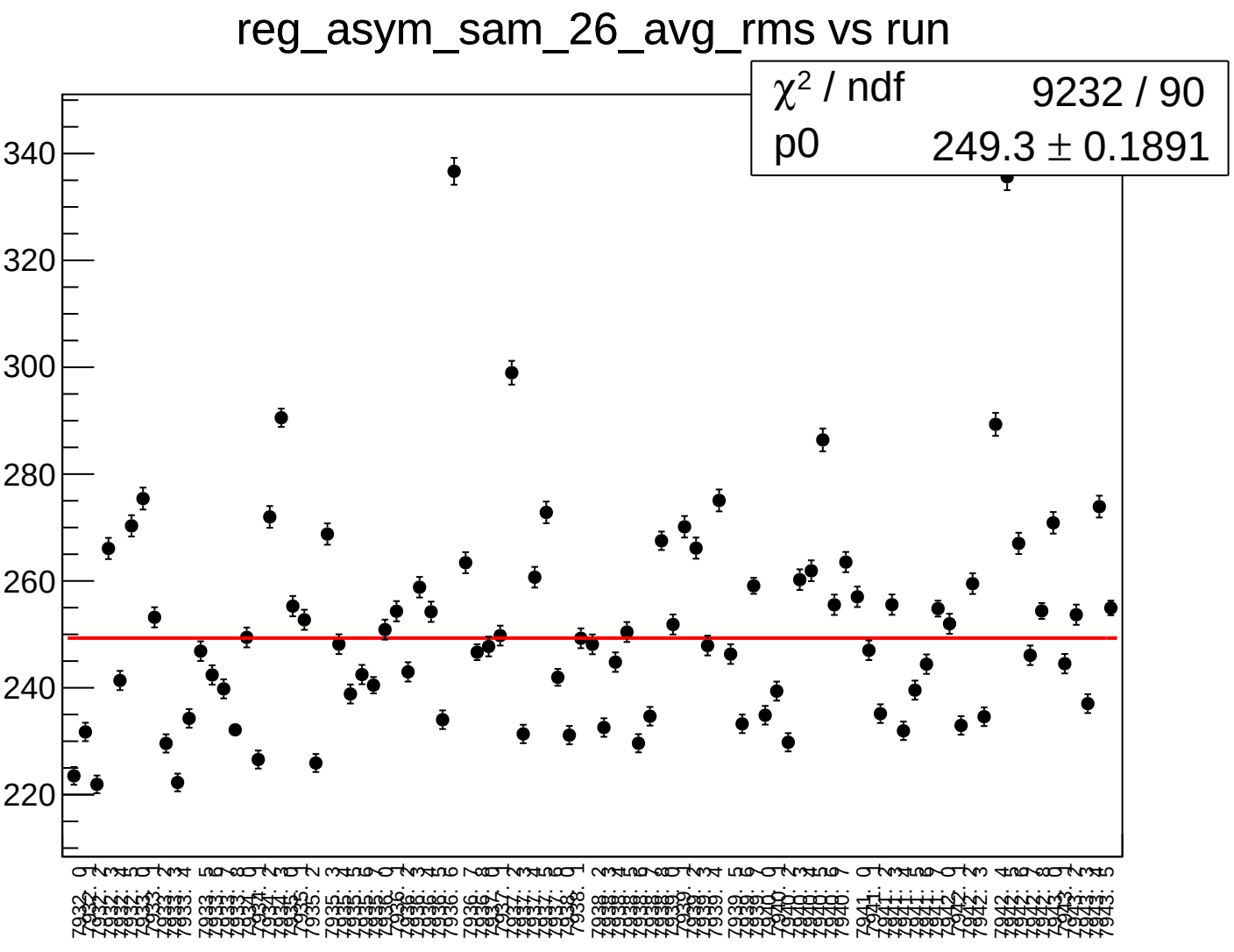

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.15 / 90
p0 −2.454e−14 ± 2.84e−14
pull
Entries 91
Mean −42.8
Std Dev 0

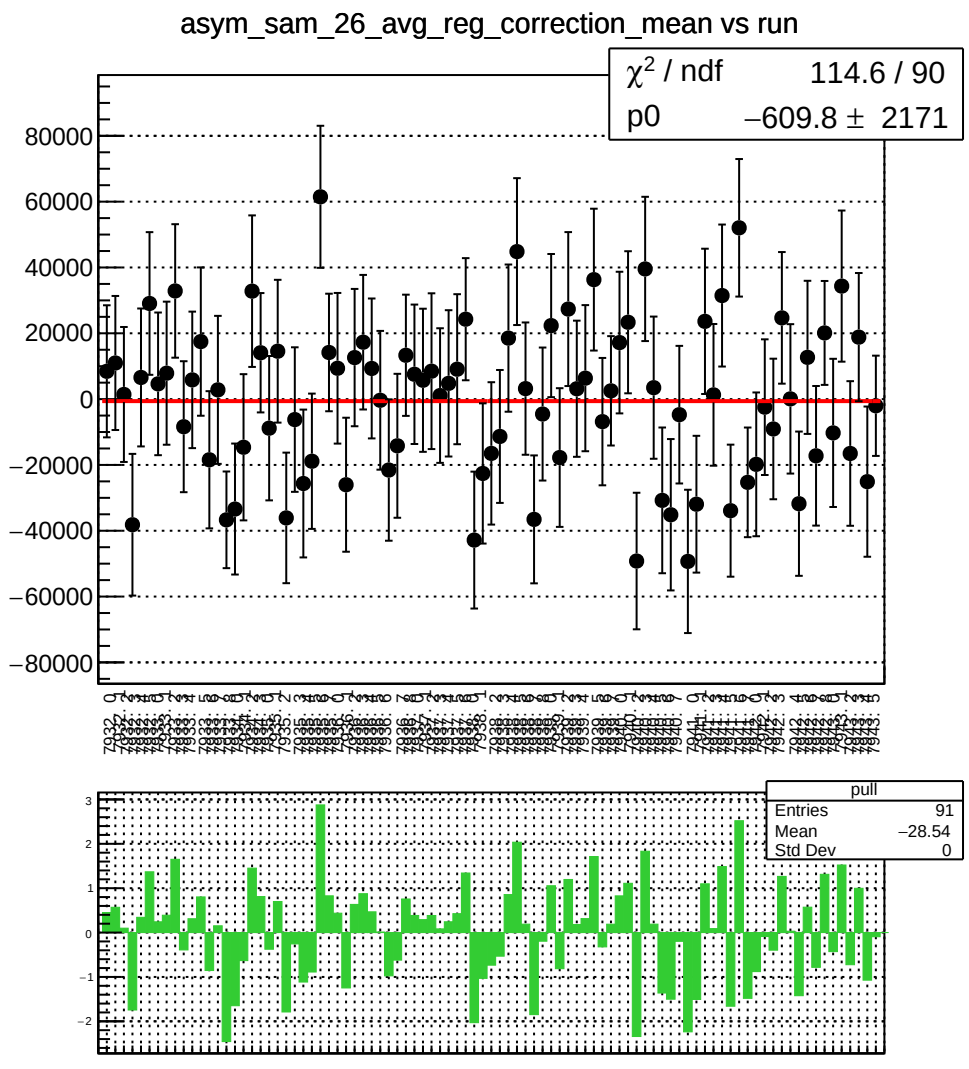

pull1D
Entries 91
Mean −0.004092
Std Dev 0.9501

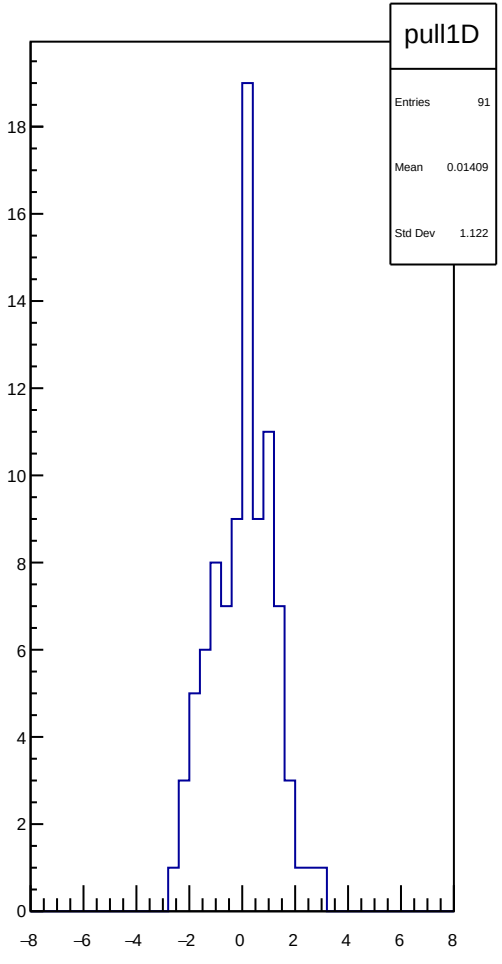

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.147e+05 / 90
p0 2.23e−11 ± 2.008e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

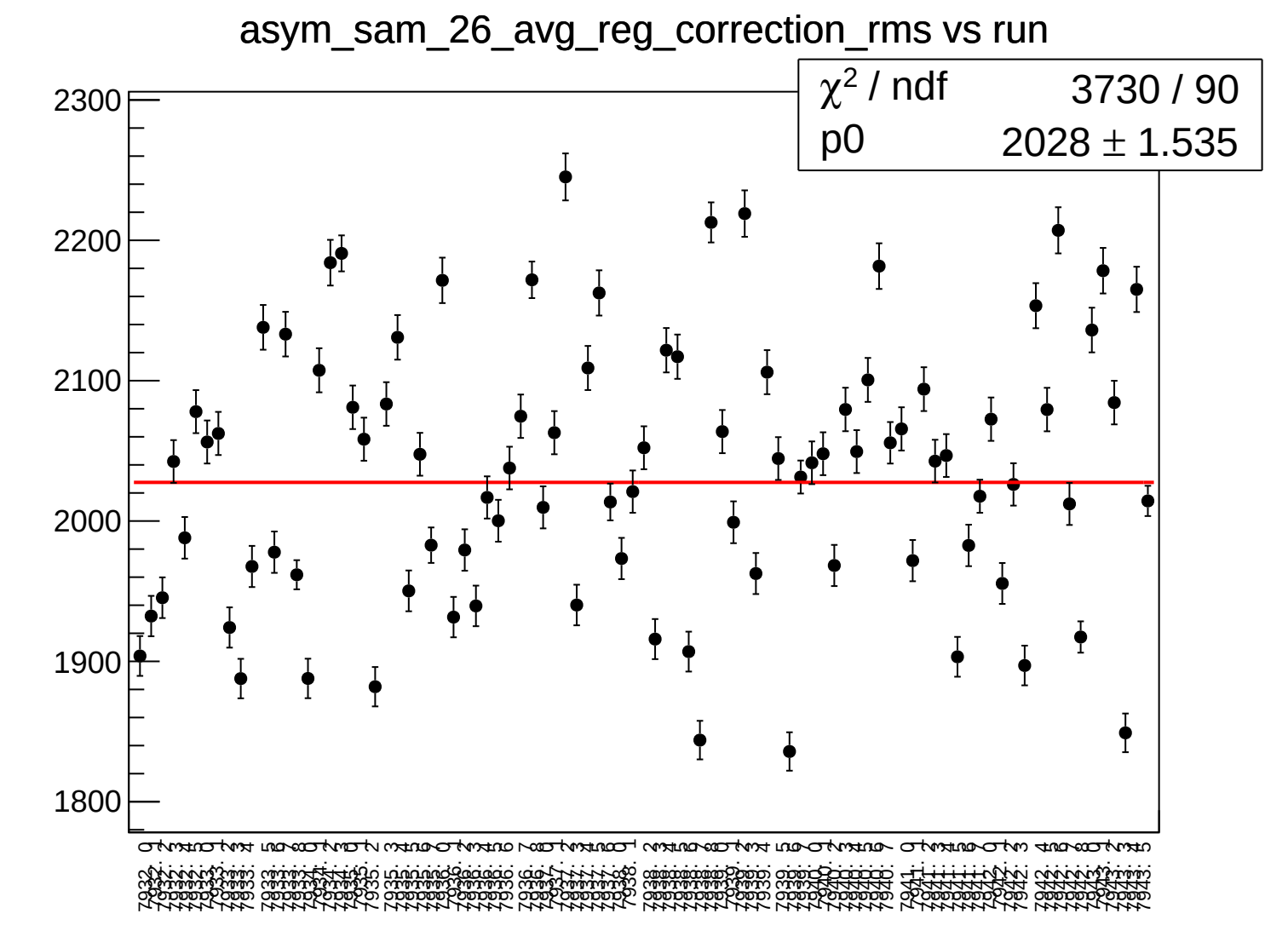

reg_asym_sam_26_avg_mean vs run
χ² / ndf 94.83 / 90
p0 995.2 ± 267.4
pull
Entries 91
Mean −69.17
Std Dev 0

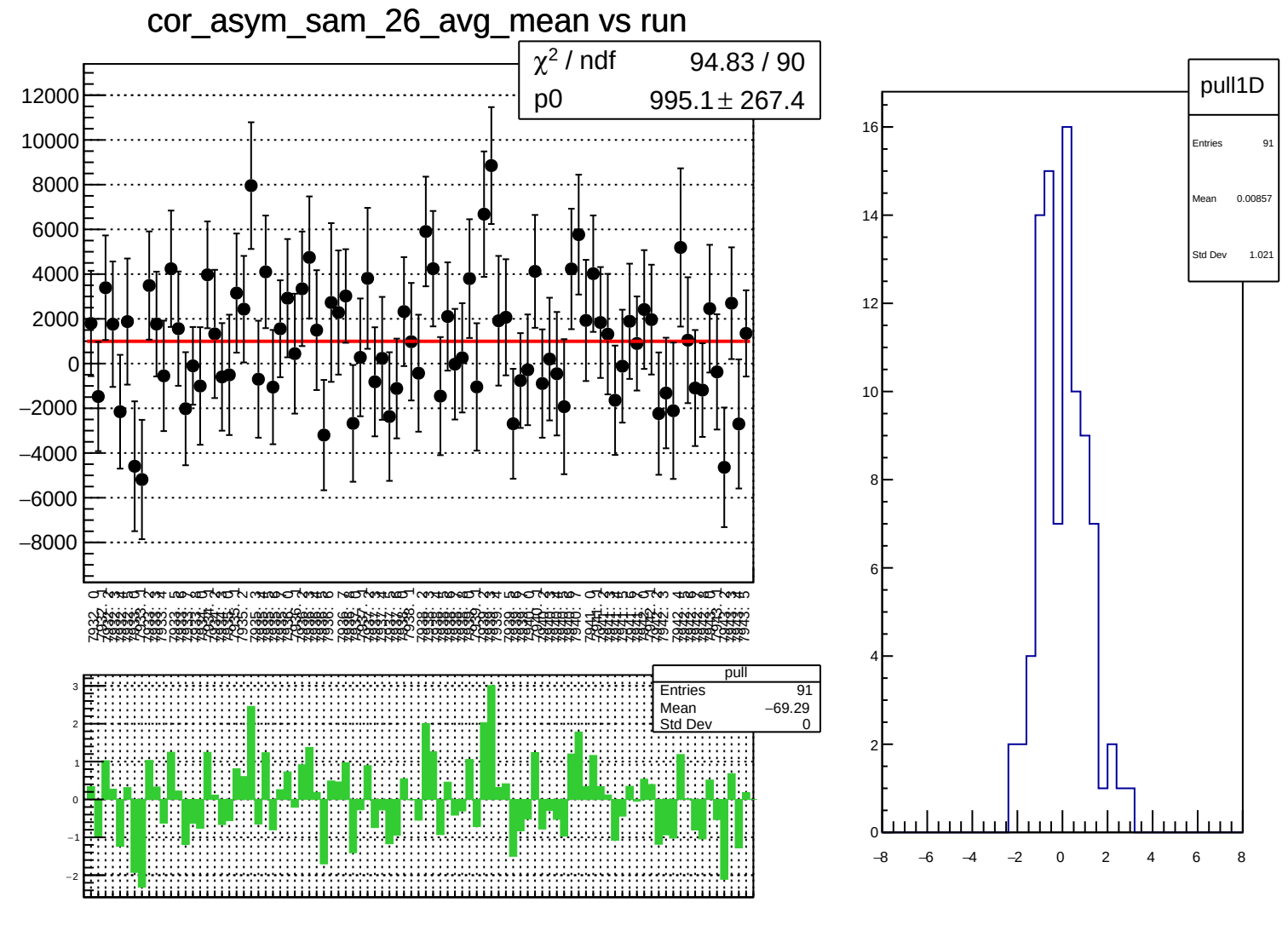

pull1D
Entries 91
Mean 0.008576
Std Dev 1.021

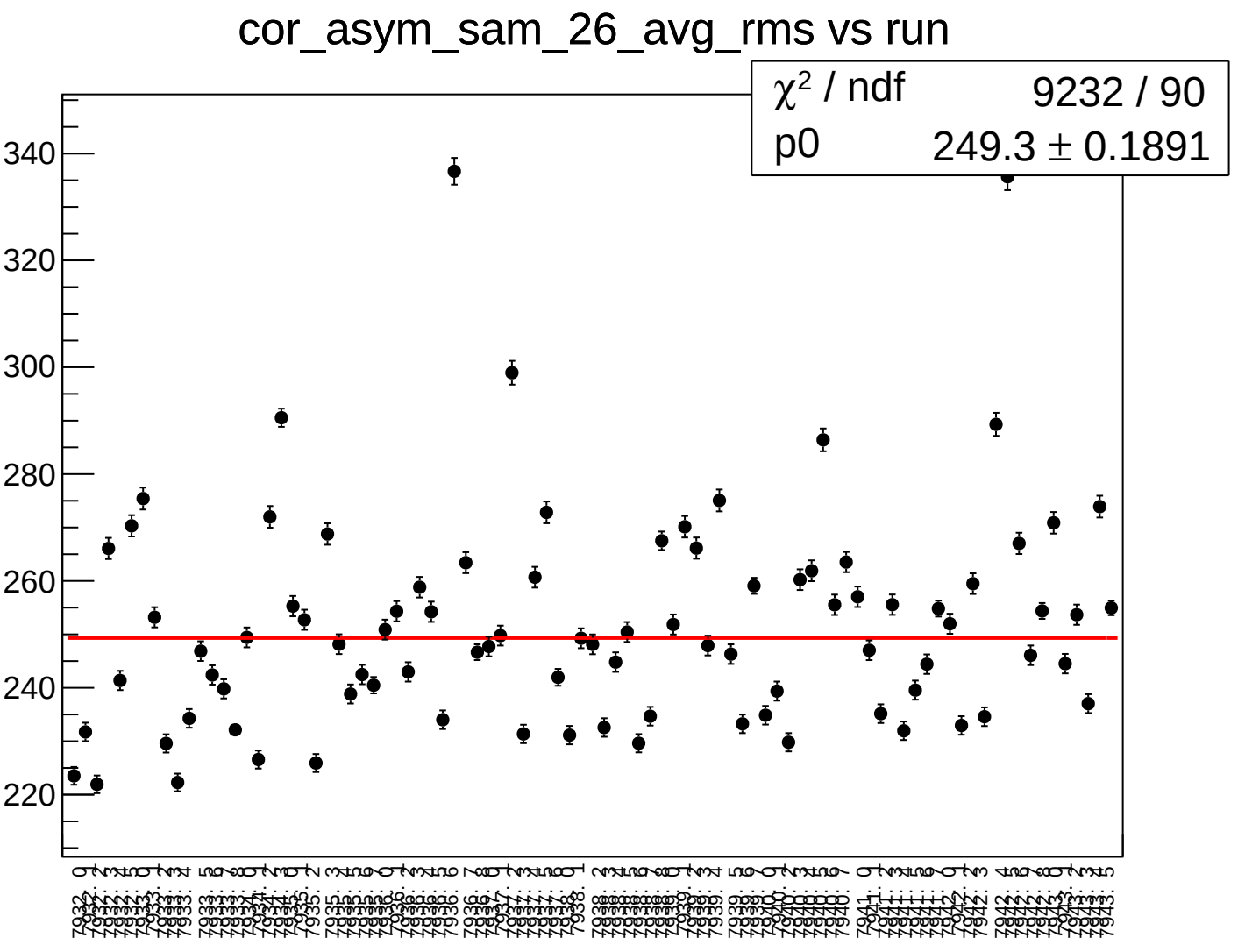

reg_asym_sam_26_avg_rms vs run
χ² / ndf 9232 / 90
p0 249.3 ± 0.1891
340
320
300
280
260
240
220

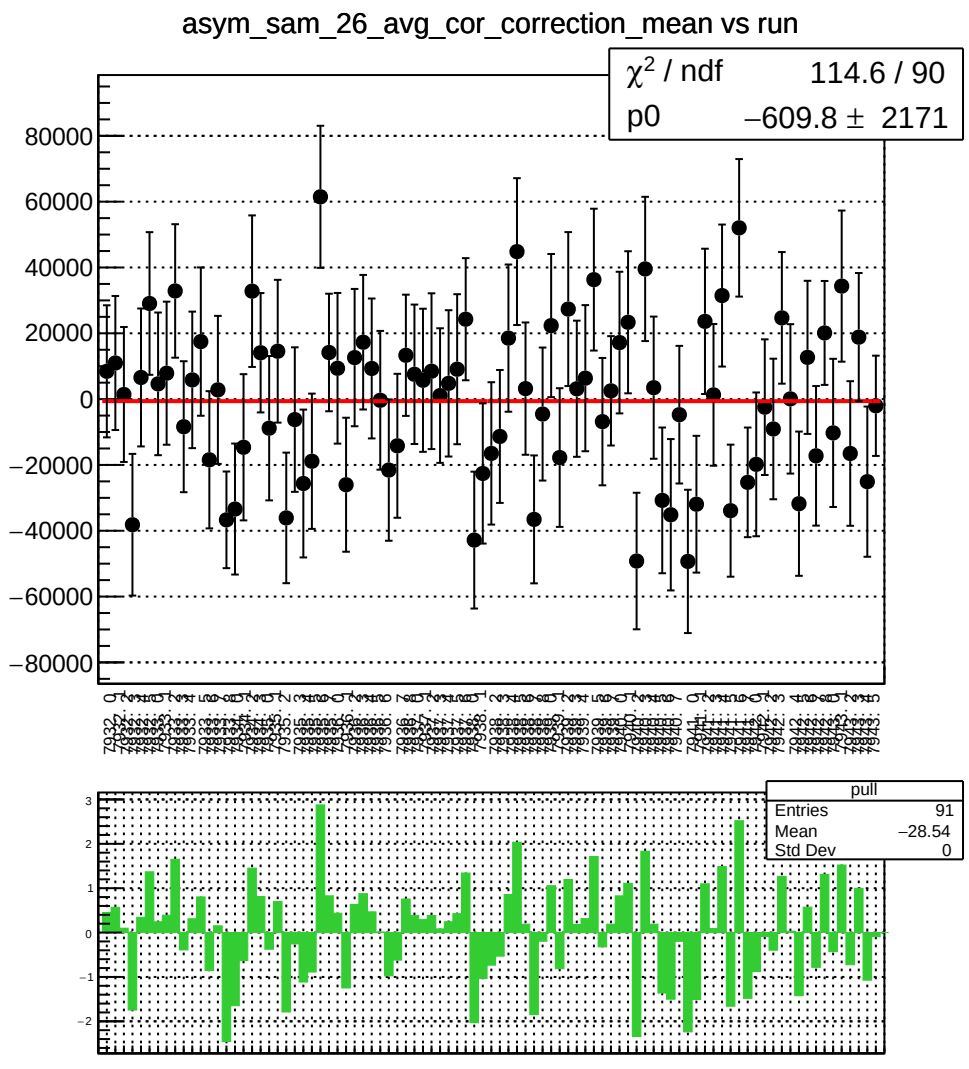

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 114.6 / 90
p0 −609.8 ± 2171
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −28.54
Std Dev 0
3
2
1
0
−1
−2

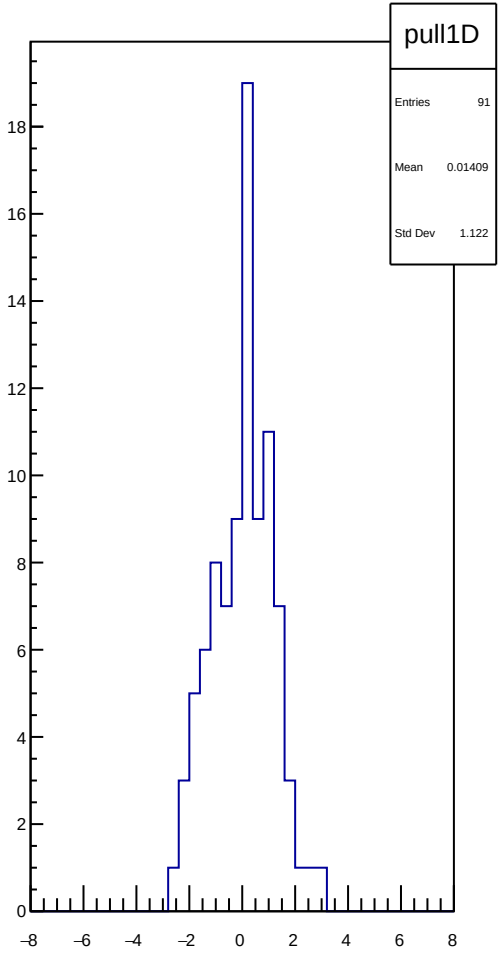

pull1D
Entries 91
Mean 0.01409
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

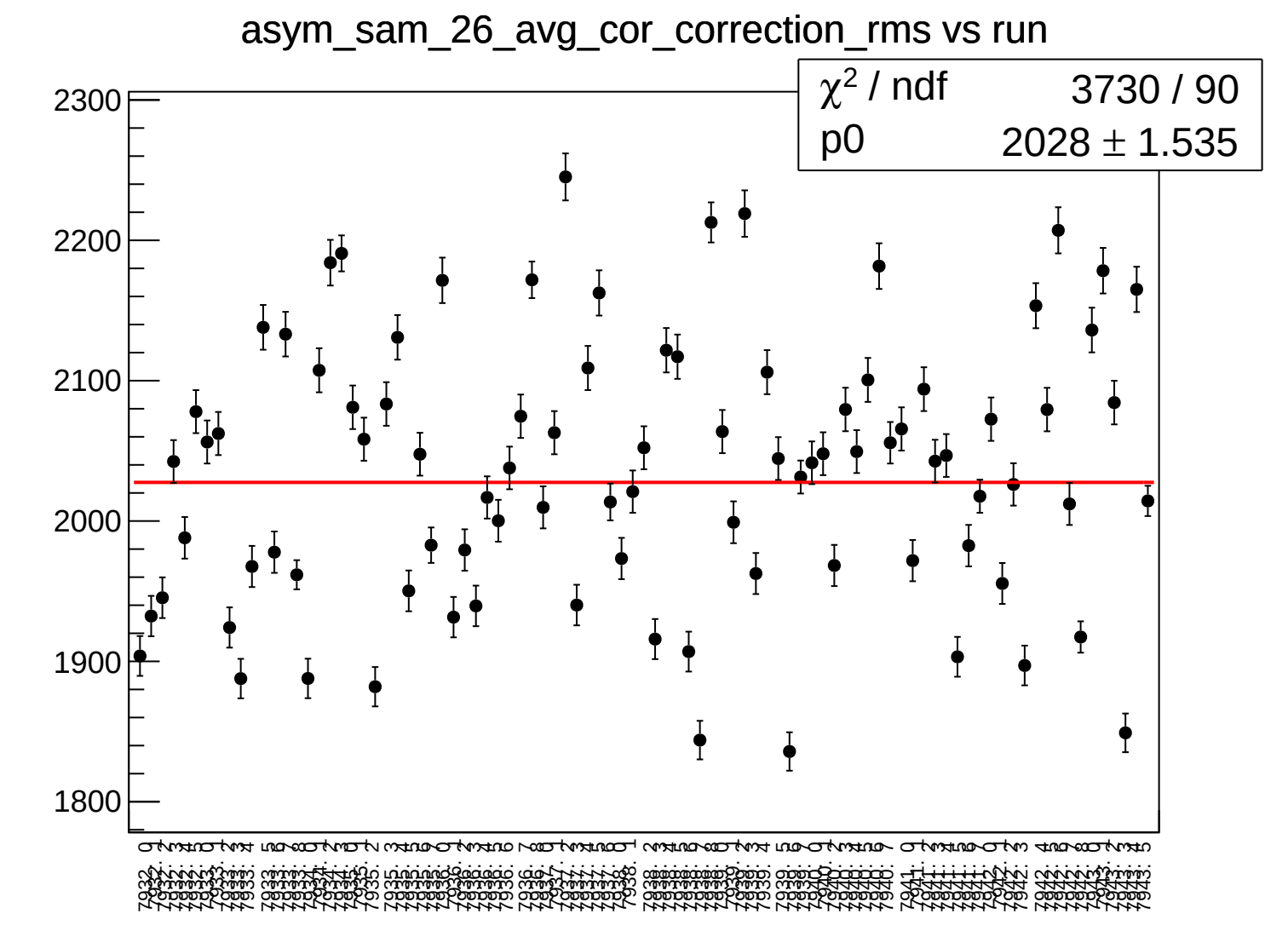

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3730 / 90
p0 2028 ± 1.535
2300
2200
2100
2000
1900
1800

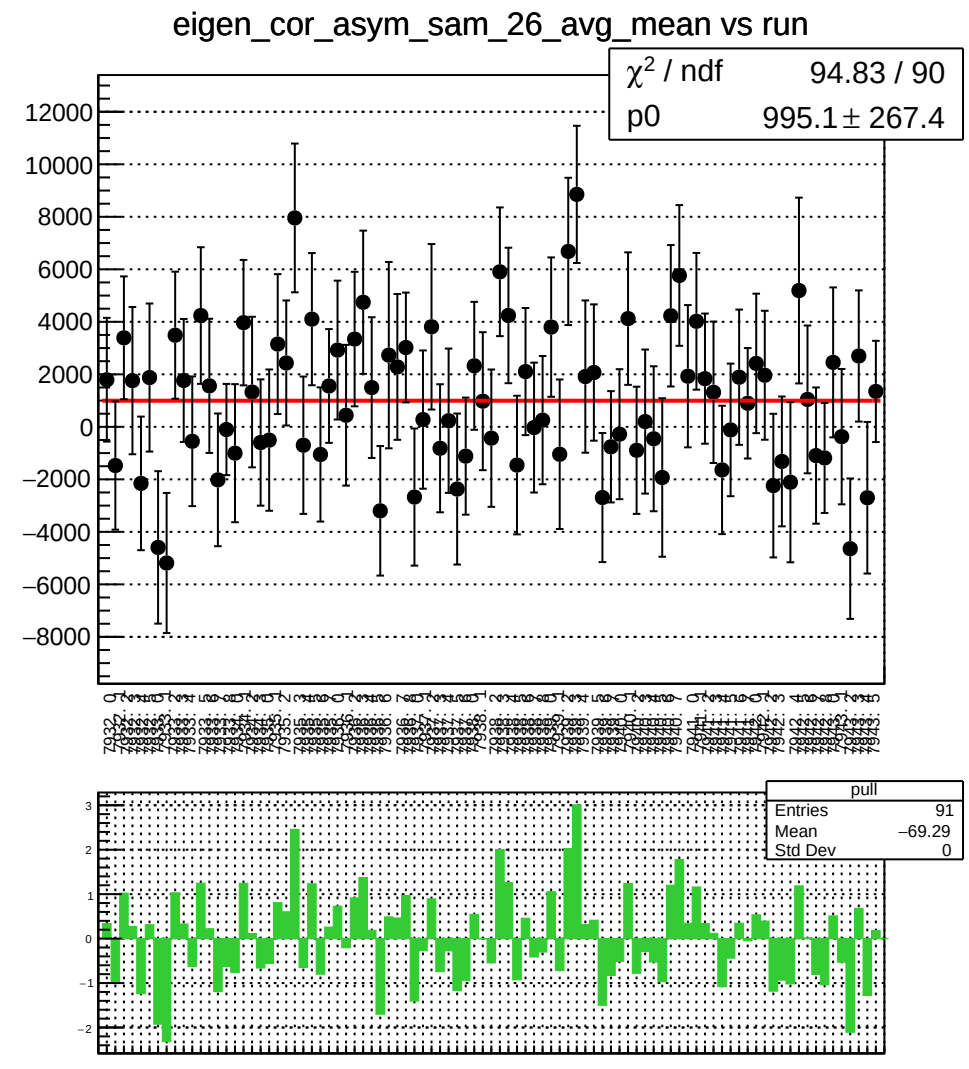

cor_asym_sam_26_avg_mean vs run
χ² / ndf 94.83 / 90
p0 995.1 ± 267.4
pull
Entries 91
Mean −69.29
Std Dev 0
pull1D
Entries 91
Mean 0.00857
Std Dev 1.021

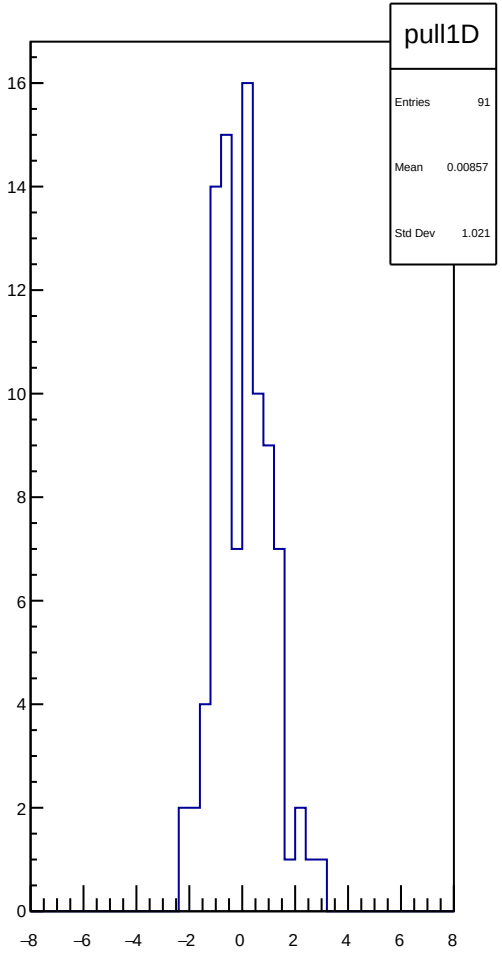

cor_asym_sam_26_avg_rms vs run
χ² / ndf 9232 / 90
p0 249.3 ± 0.1891
340
320
300
280
260
240
220

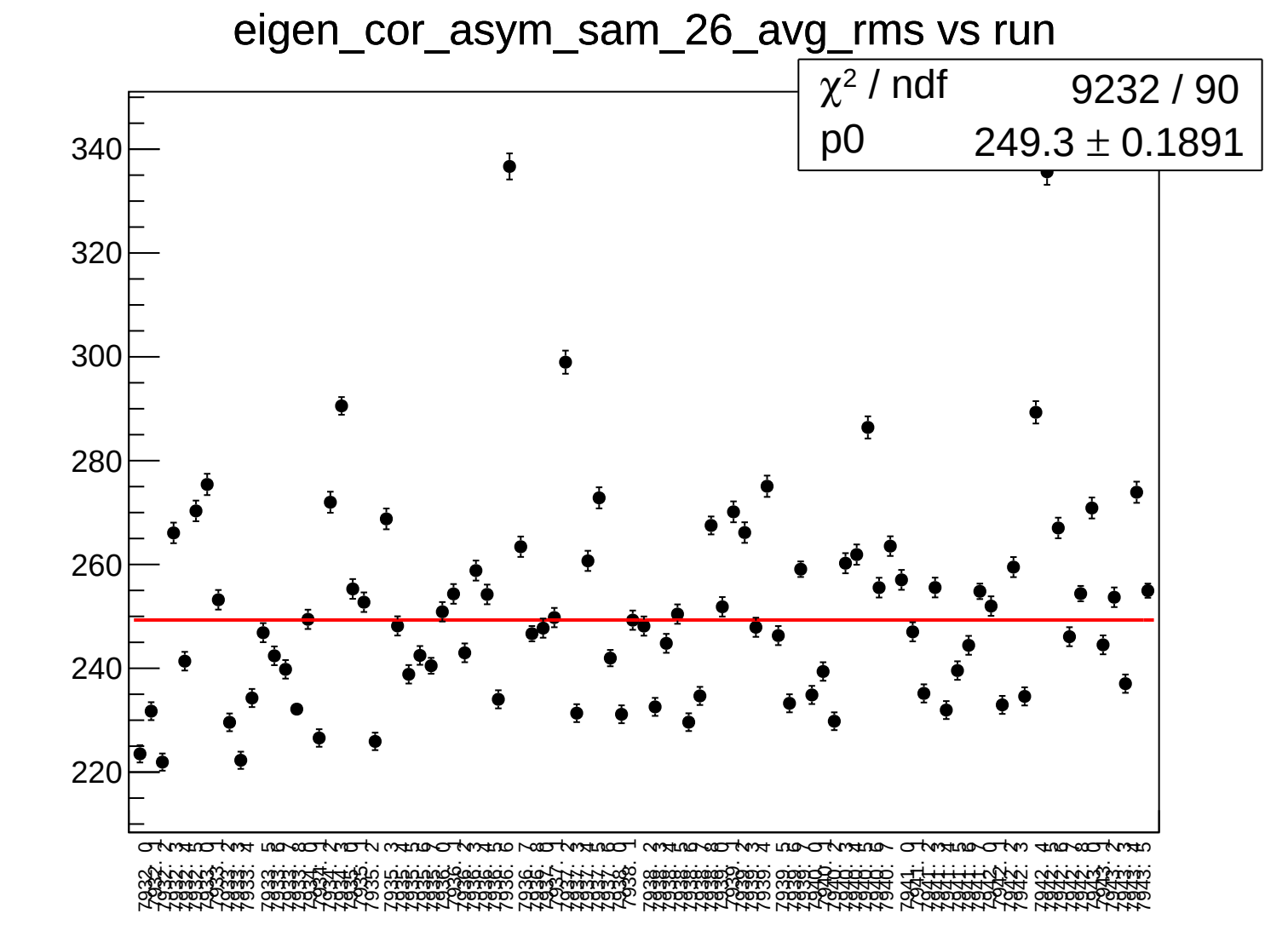

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 114.6 / 90
p0 −609.8 ± 2171
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −28.54
Std Dev 0
3
2
1
0
−1
−2

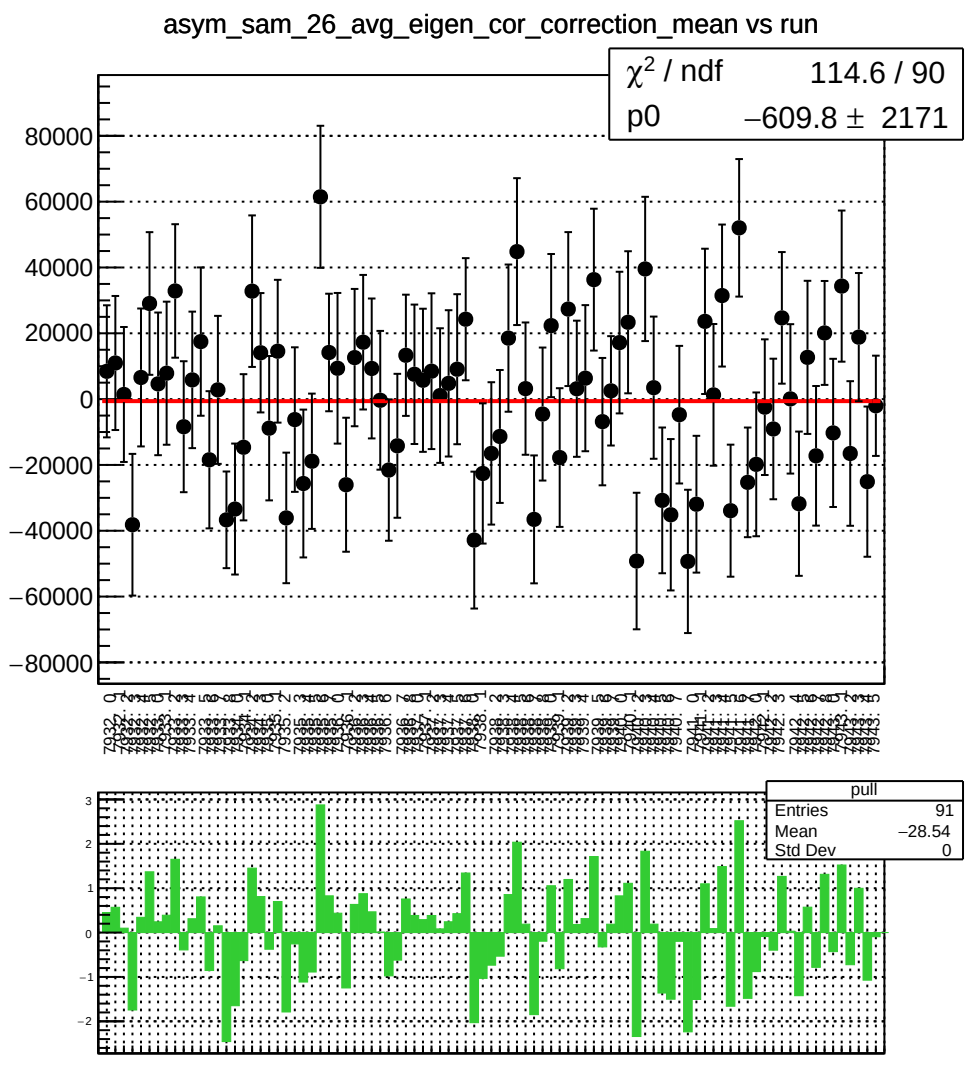

pull1D
Entries 91
Mean 0.01409
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

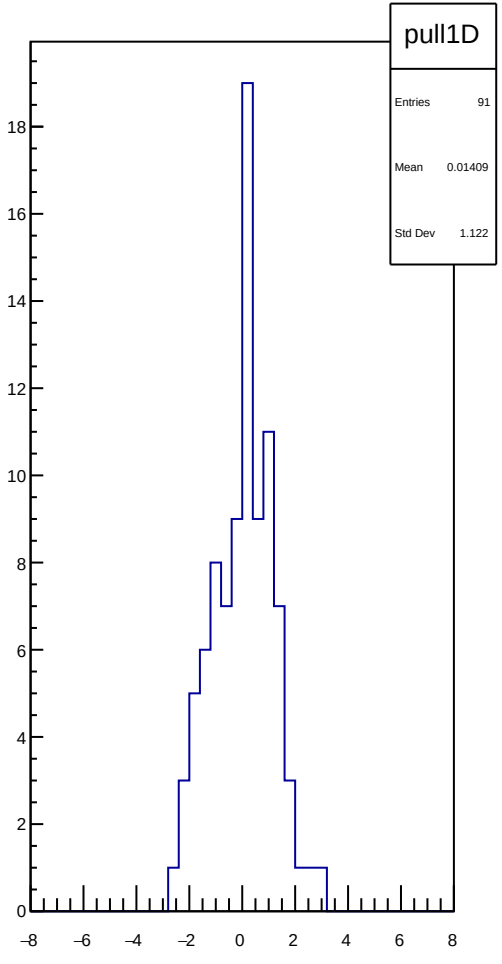

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3730 / 90
p0 2028 ± 1.535
2300
2200
2100
2000
1900
1800

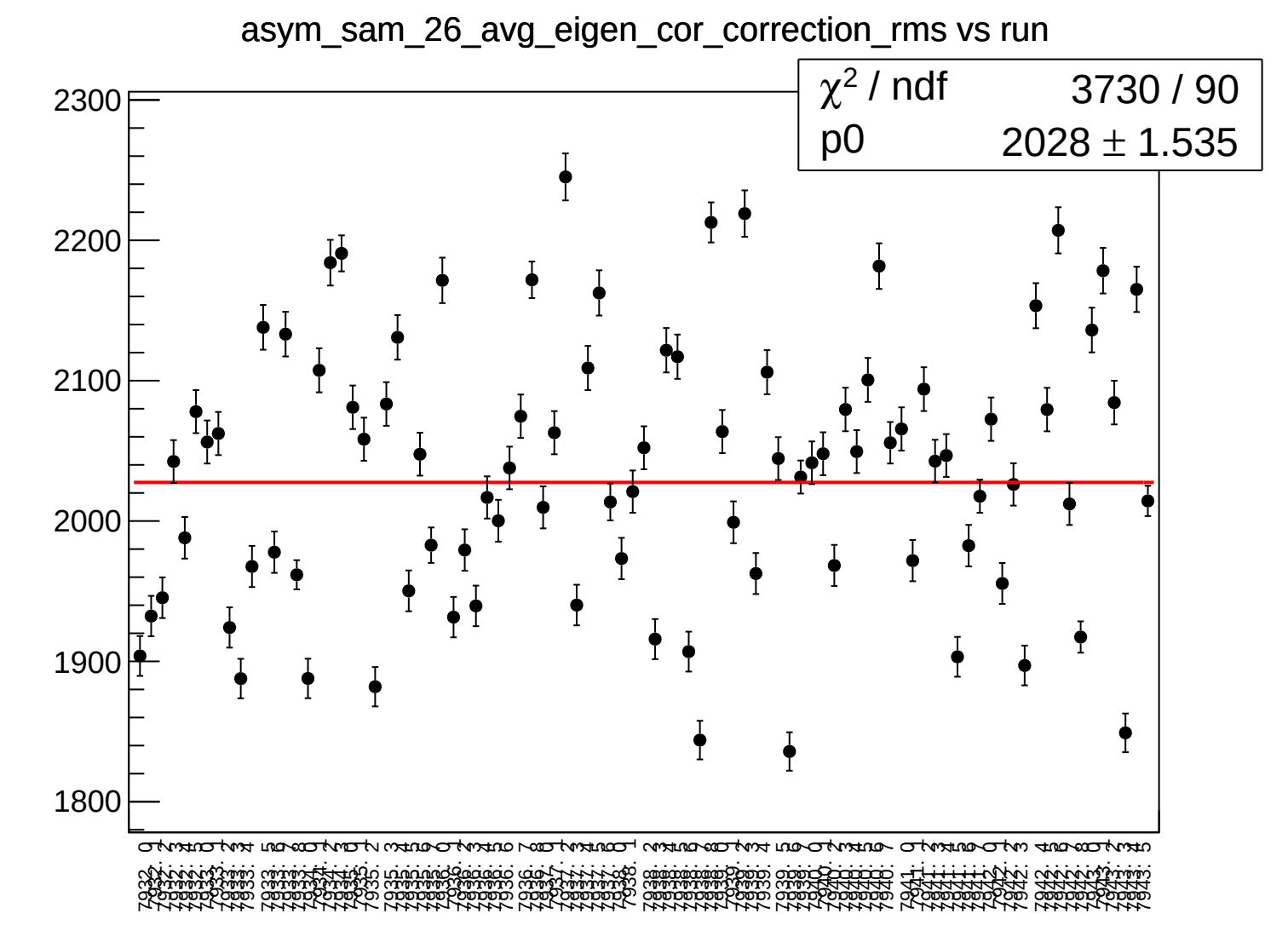

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 94.83 / 90
p0 995.1 ± 267.4
pull
Entries 91
Mean −69.29
Std Dev 0

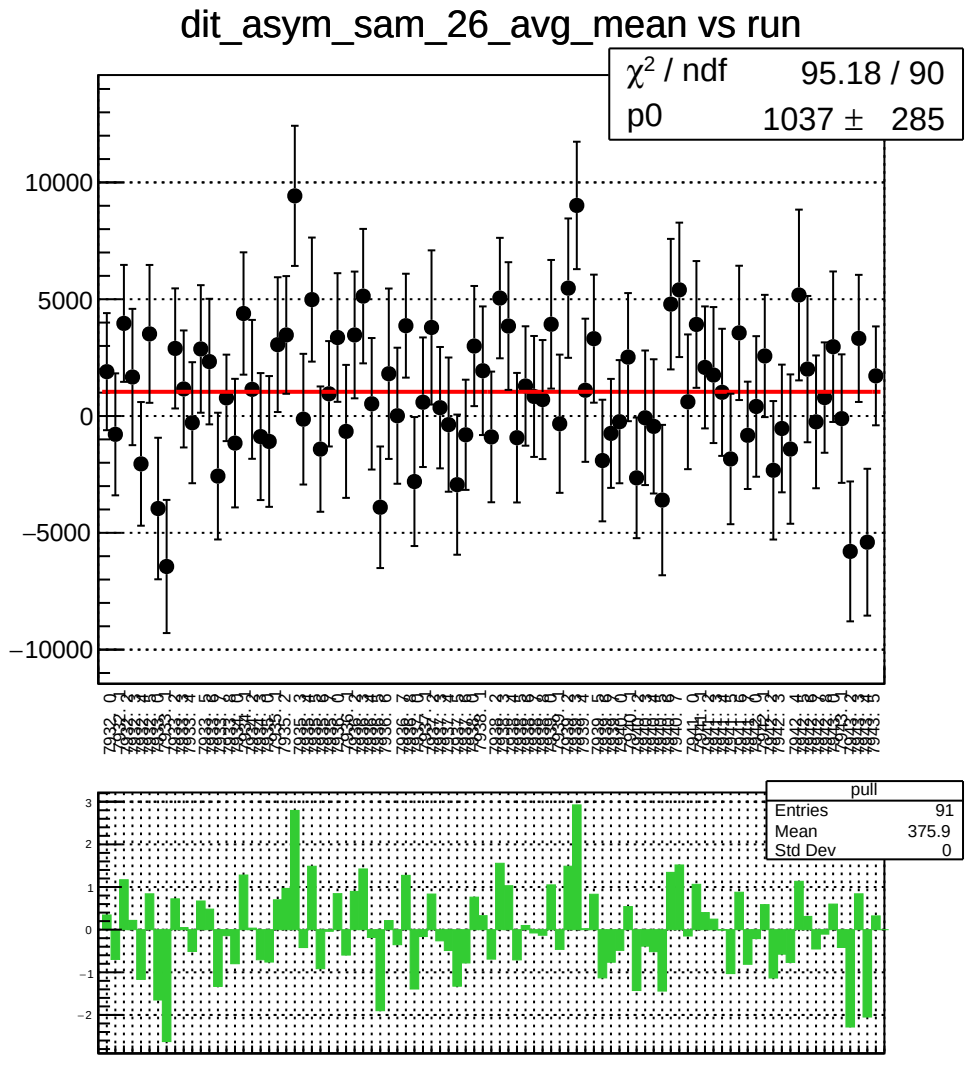

pull1D
Entries 91
Mean 0.00857
Std Dev 1.021

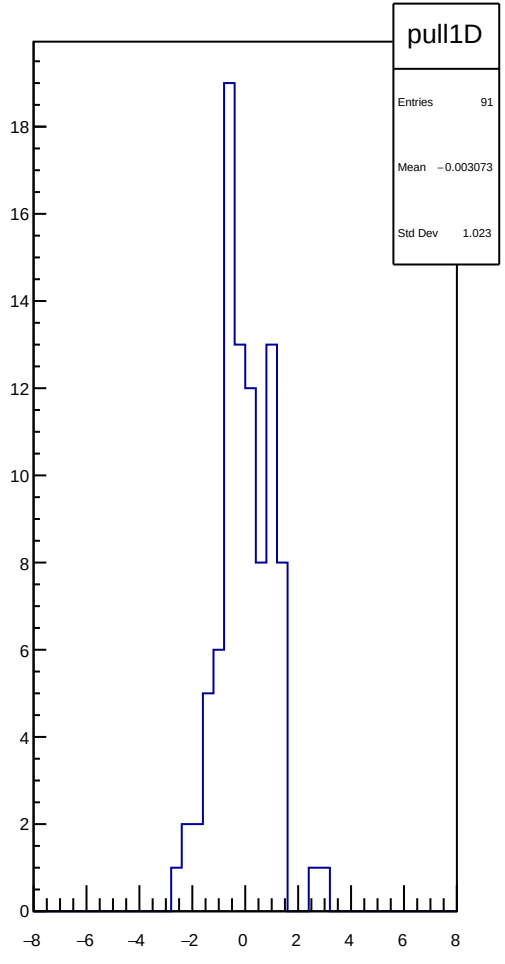

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 9232 / 90
p0 249.3 ± 0.1891
340
320
300
280
260
240
220

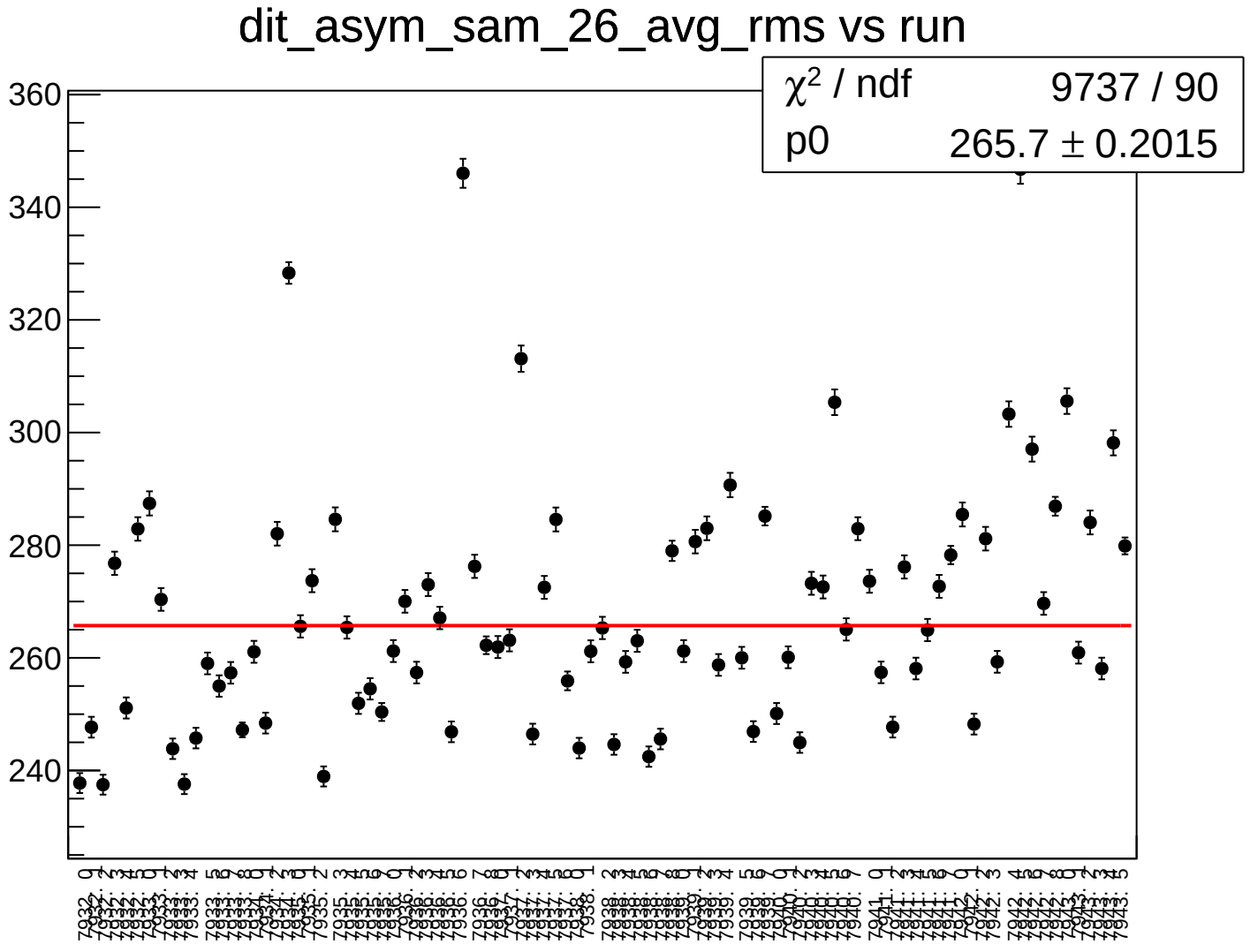

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 114.6 / 90
p0 −609.8 ± 2171
pull
Entries 91
Mean −28.54
Std Dev 0

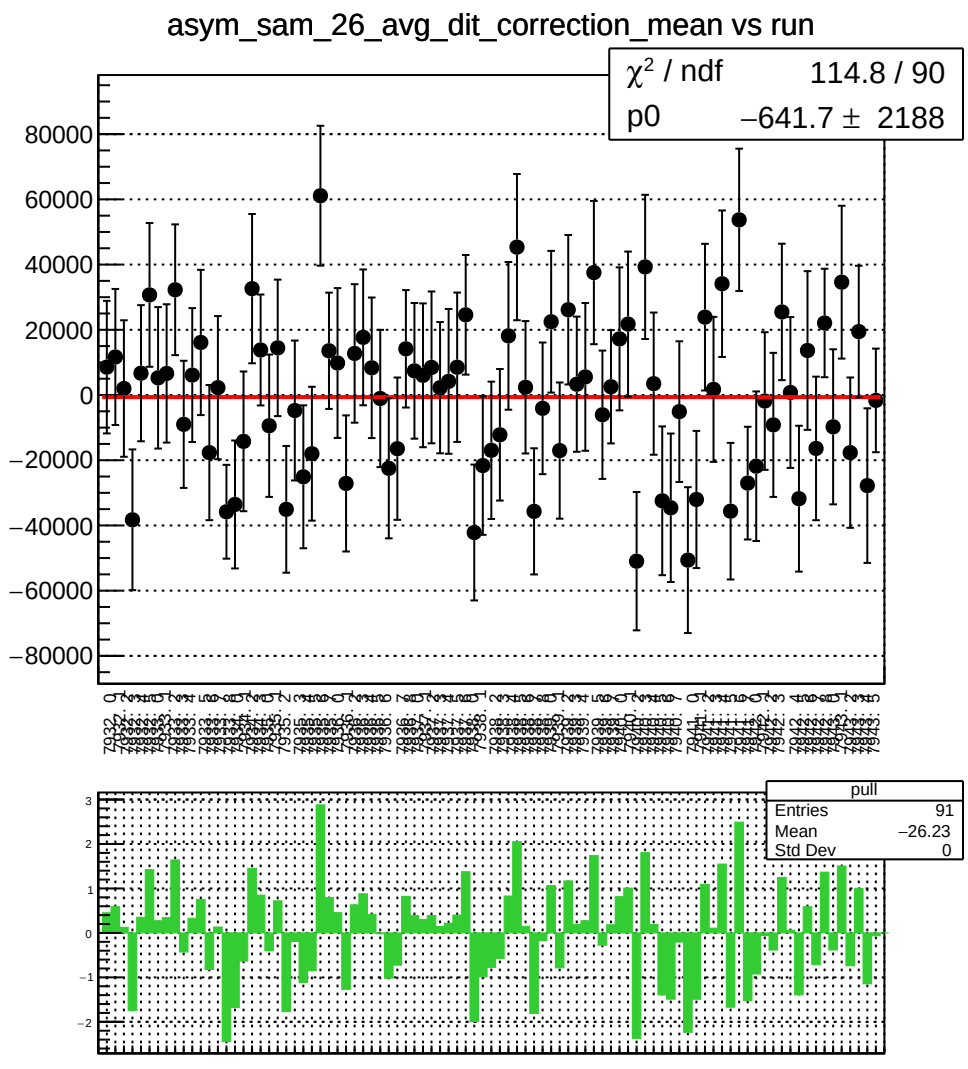

pull1D
Entries 91
Mean 0.01409
Std Dev 1.122

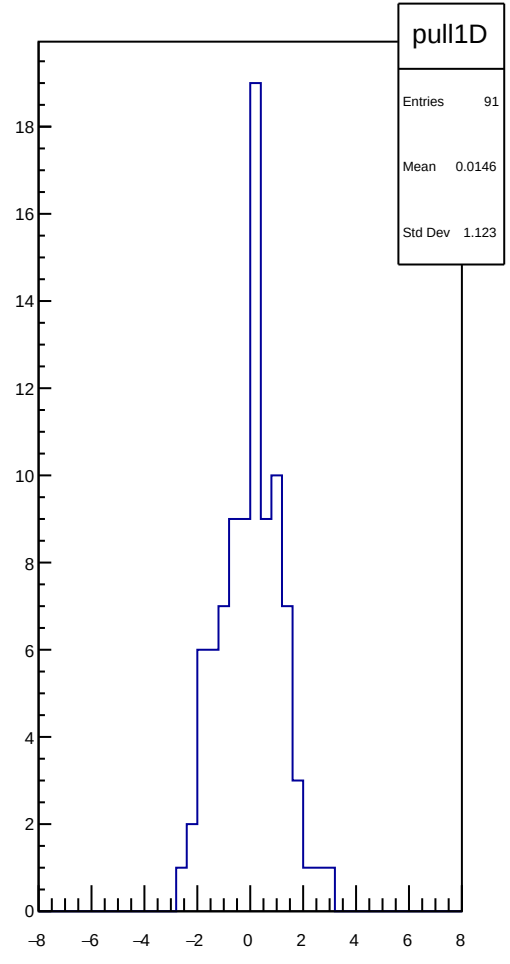

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3730 / 90
p0 2028 ± 1.535
2300
2200
2100
2000
1900
1800

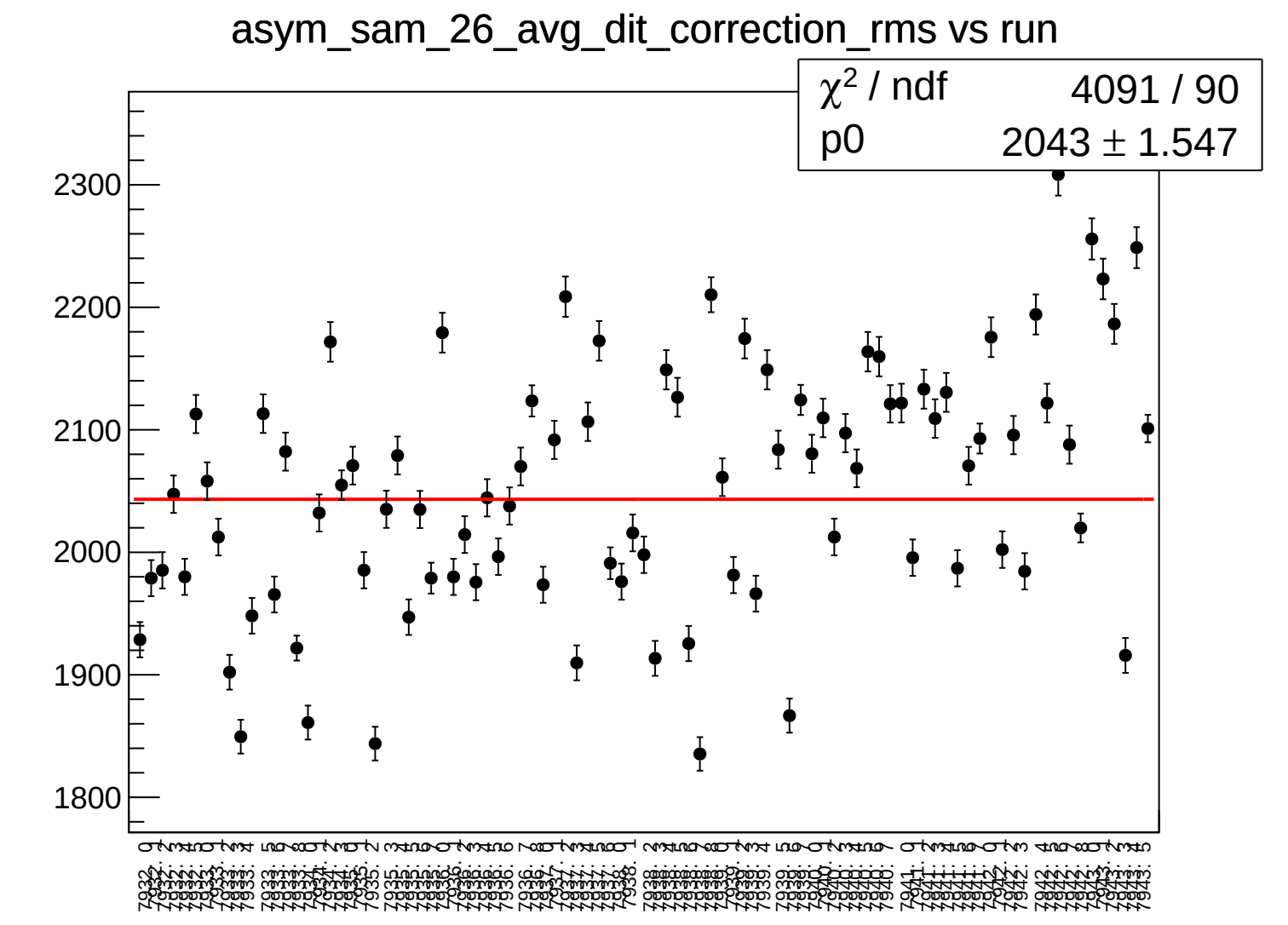

dit_asym_sam_26_avg_mean vs run
χ² / ndf 95.18 / 90
p0 1037 ± 285
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 375.9
Std Dev 0
3
2
1
0
−1
−2

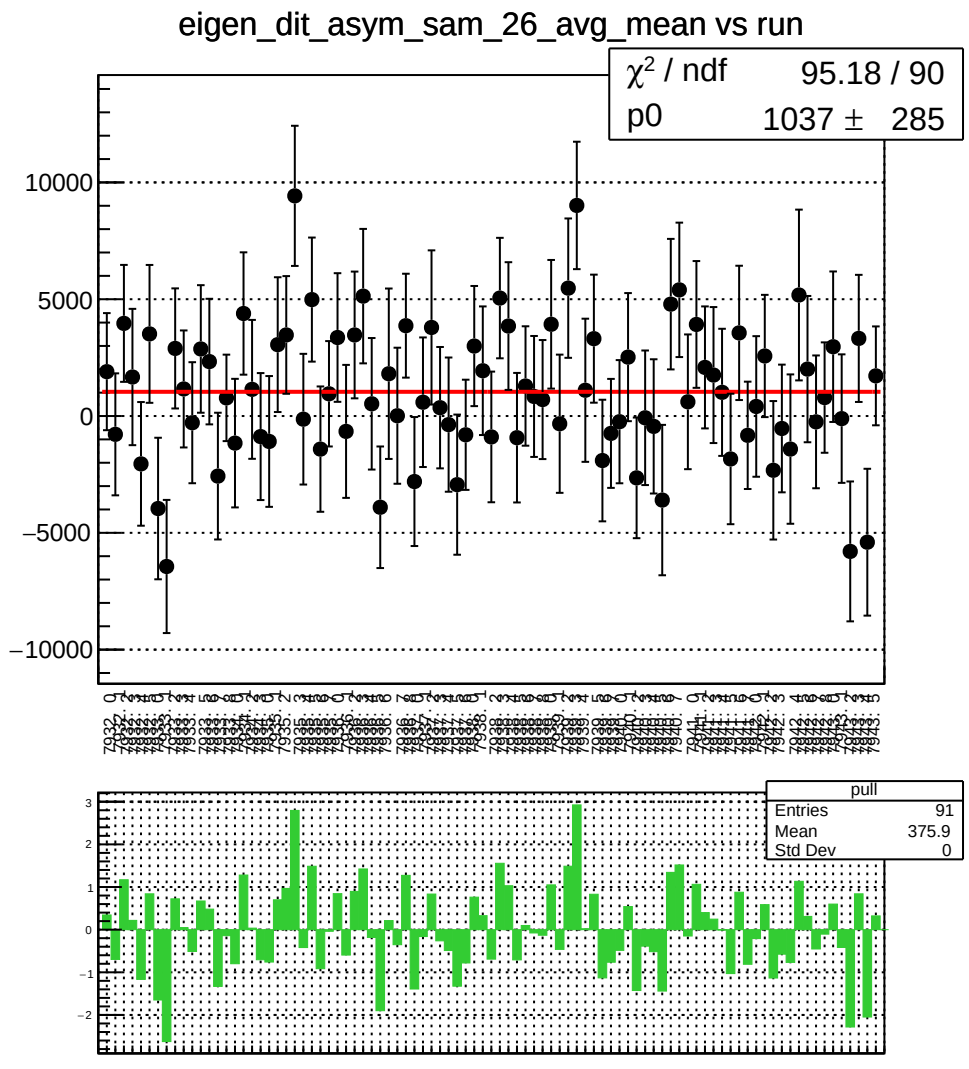

pull1D
Entries 91
Mean −0.003073
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

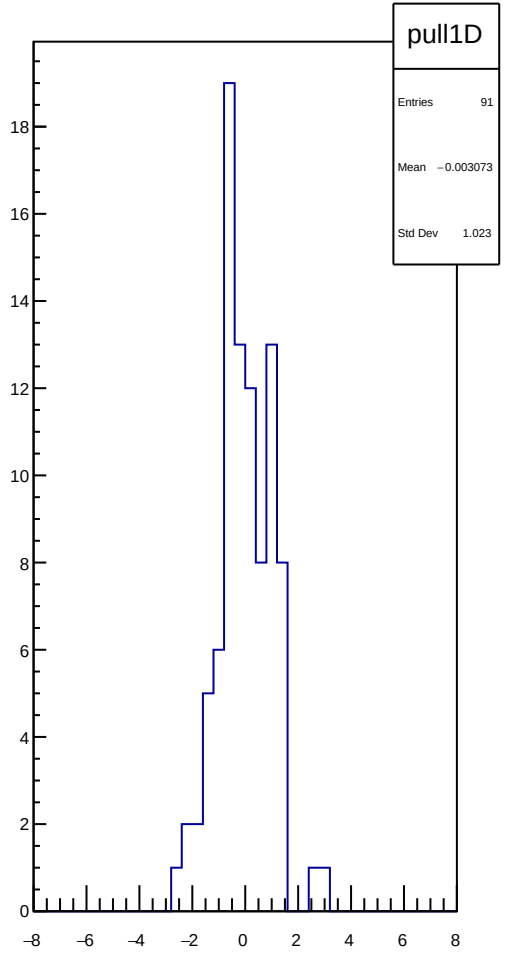

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 9737 / 90
p0 265.7 ± 0.2015
360
340
320
300
280
260
240

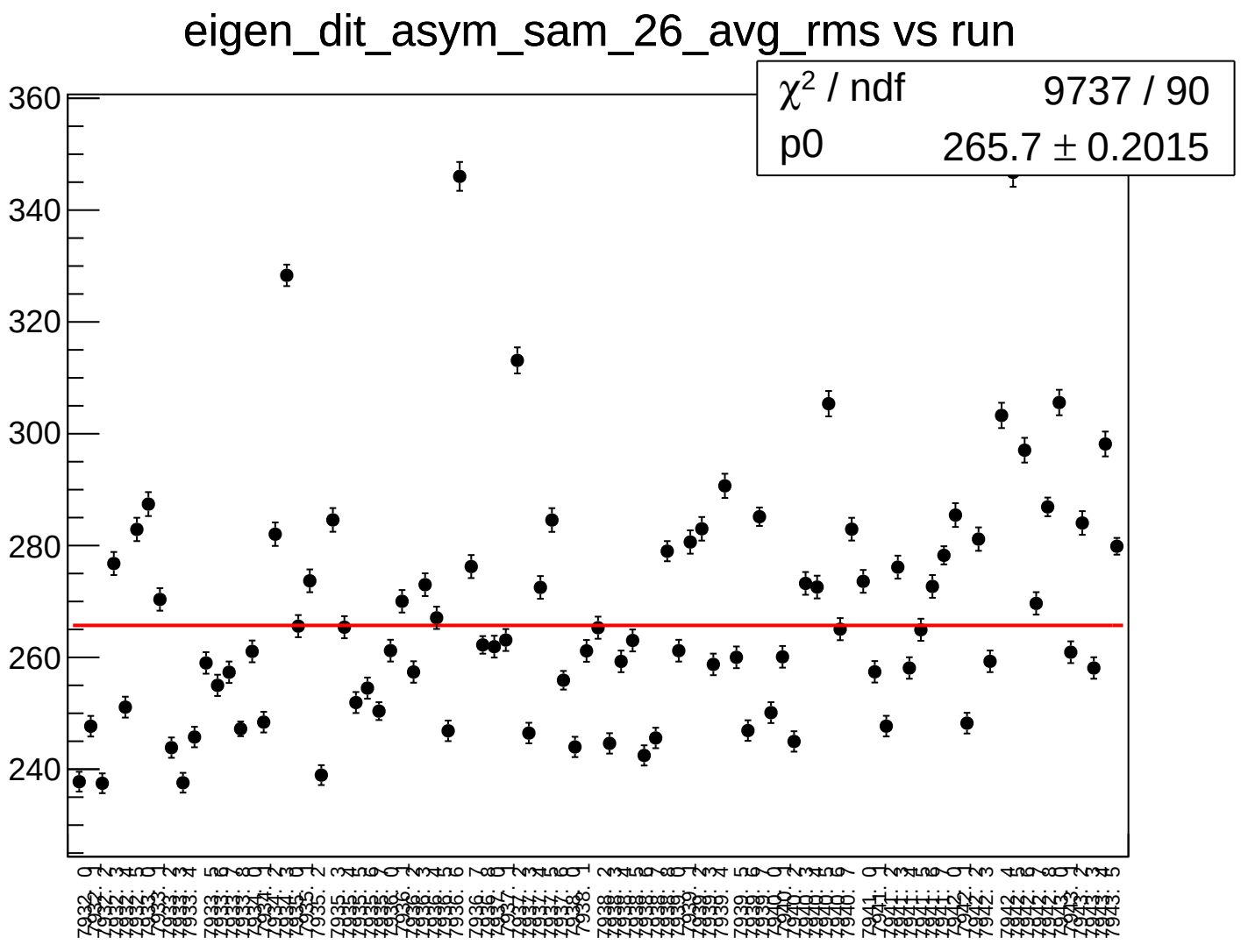

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 114.8 / 90
p0 −641.7 ± 2188
pull
Entries 91
Mean −26.23
Std Dev 0

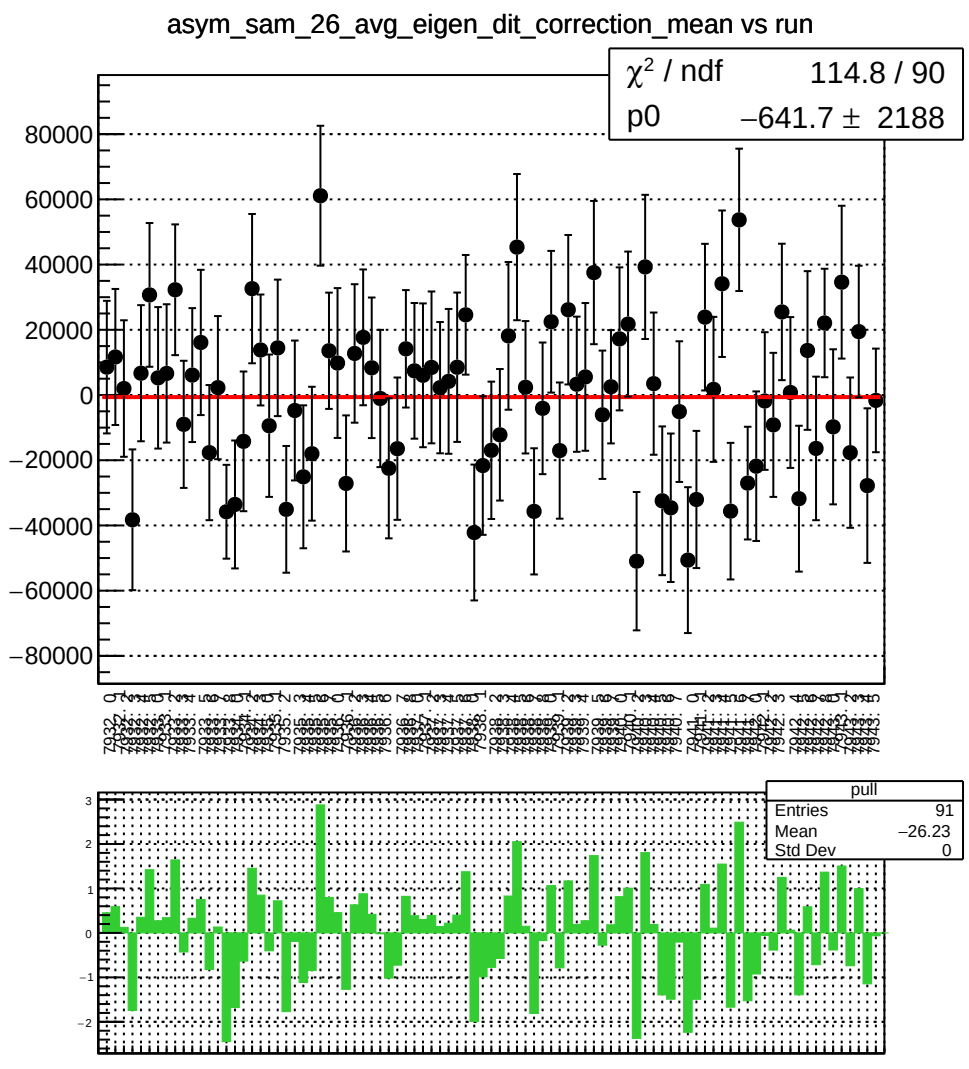

pull1D
Entries 91
Mean 0.0146
Std Dev 1.123

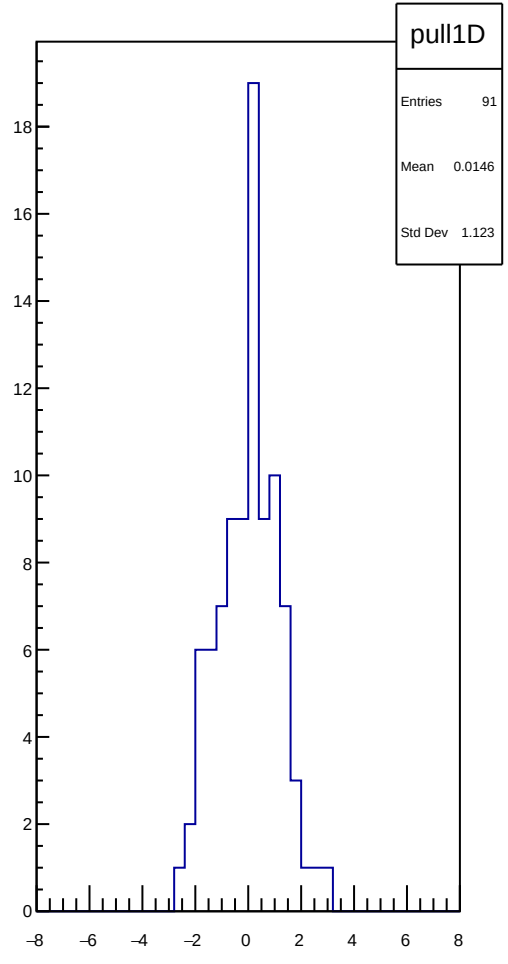

asym_sam_26_avg_dit_correction_rms vs run
χ^2 / ndf 4091 / 90
p0 2043 ± 1.547
2300
2200
2100
2000
1900
1800

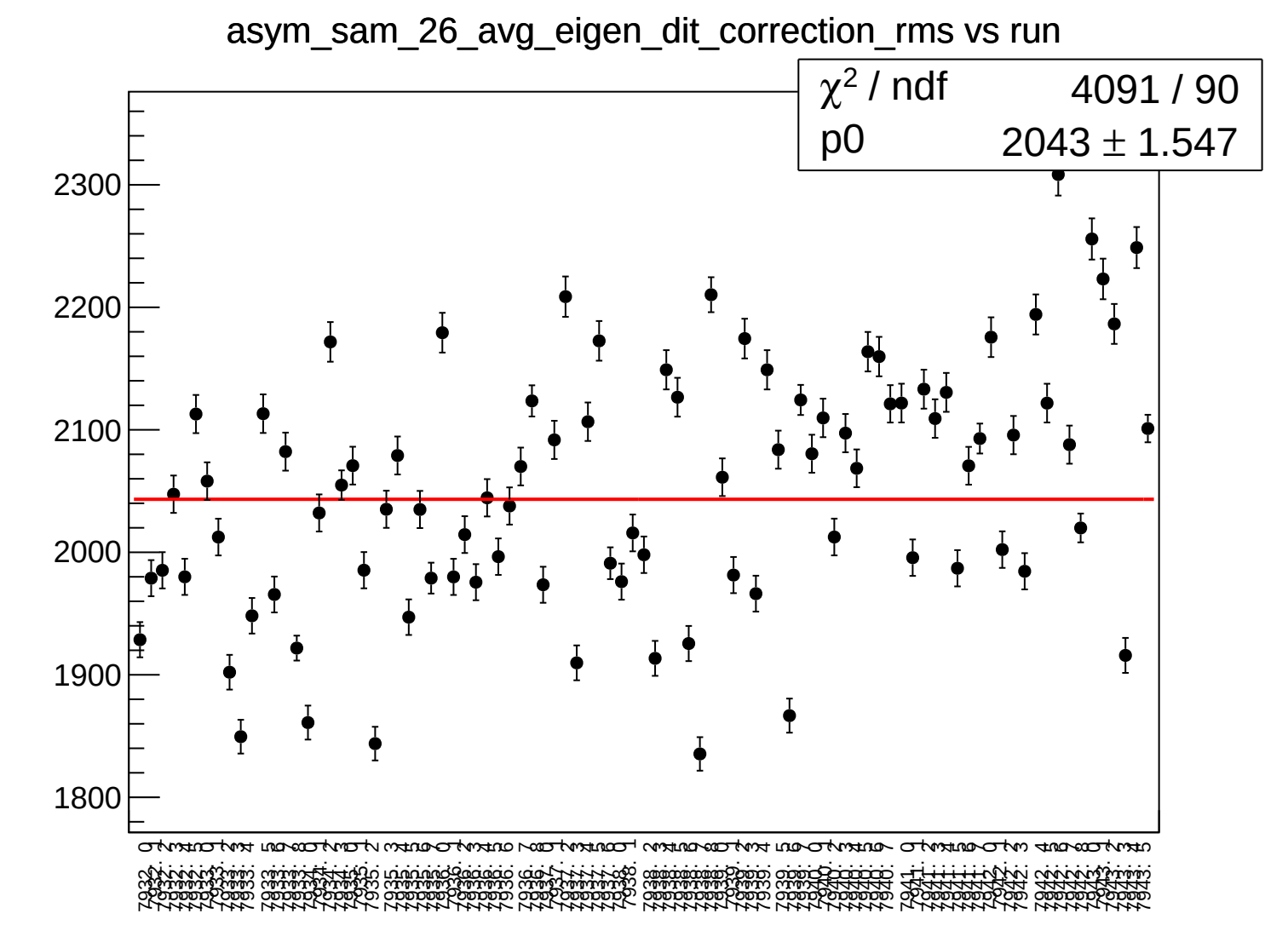

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 95.18 / 90
p0 1037 ± 285
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 375.9
Std Dev 0
3
2
1
0
−1
−2

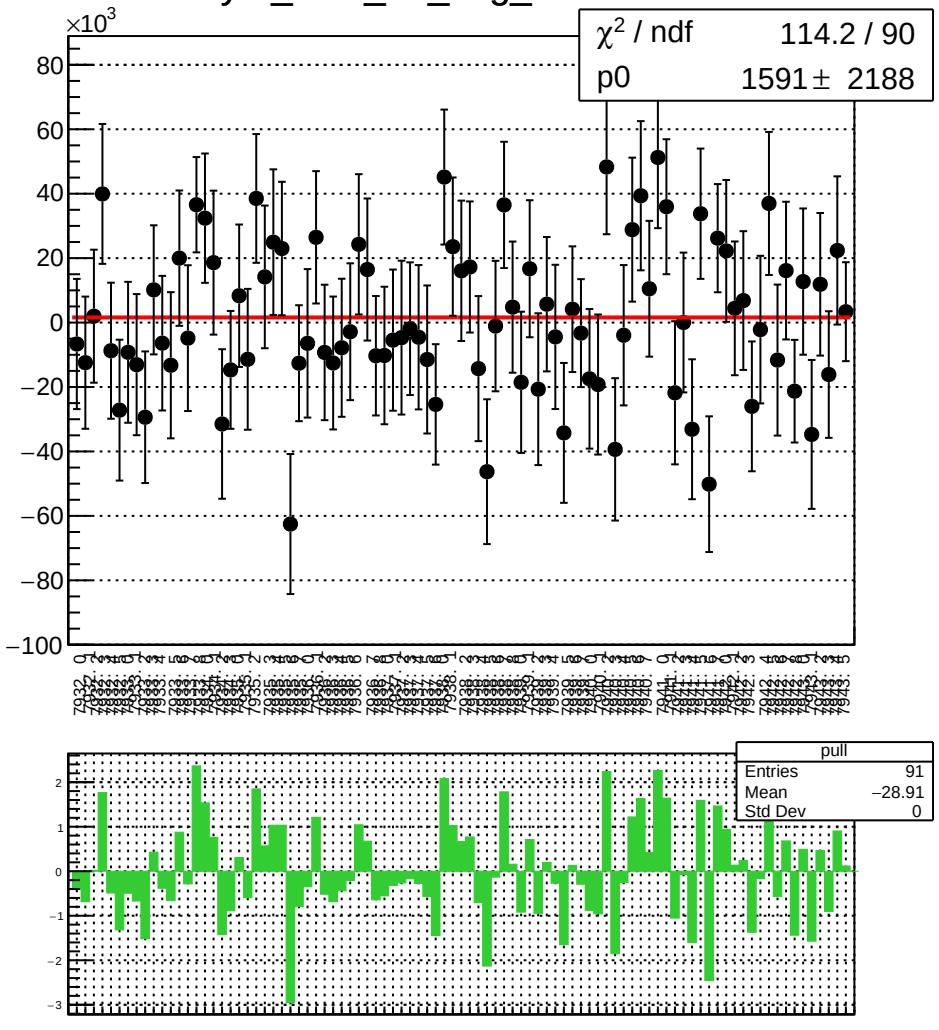

pull1D
Entries 91
Mean −0.003073
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

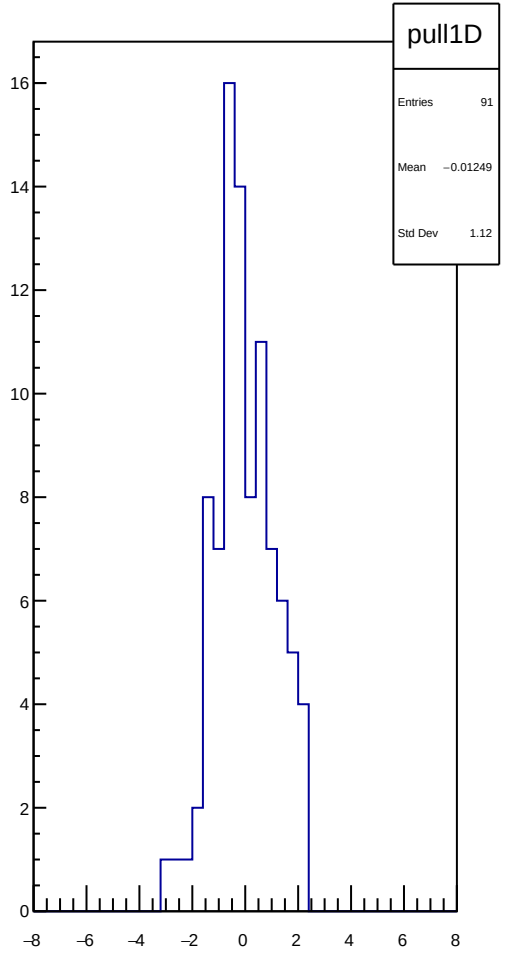

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 9737 / 90
p0 265.7 ± 0.2015
360
340
320
300
280
260
240

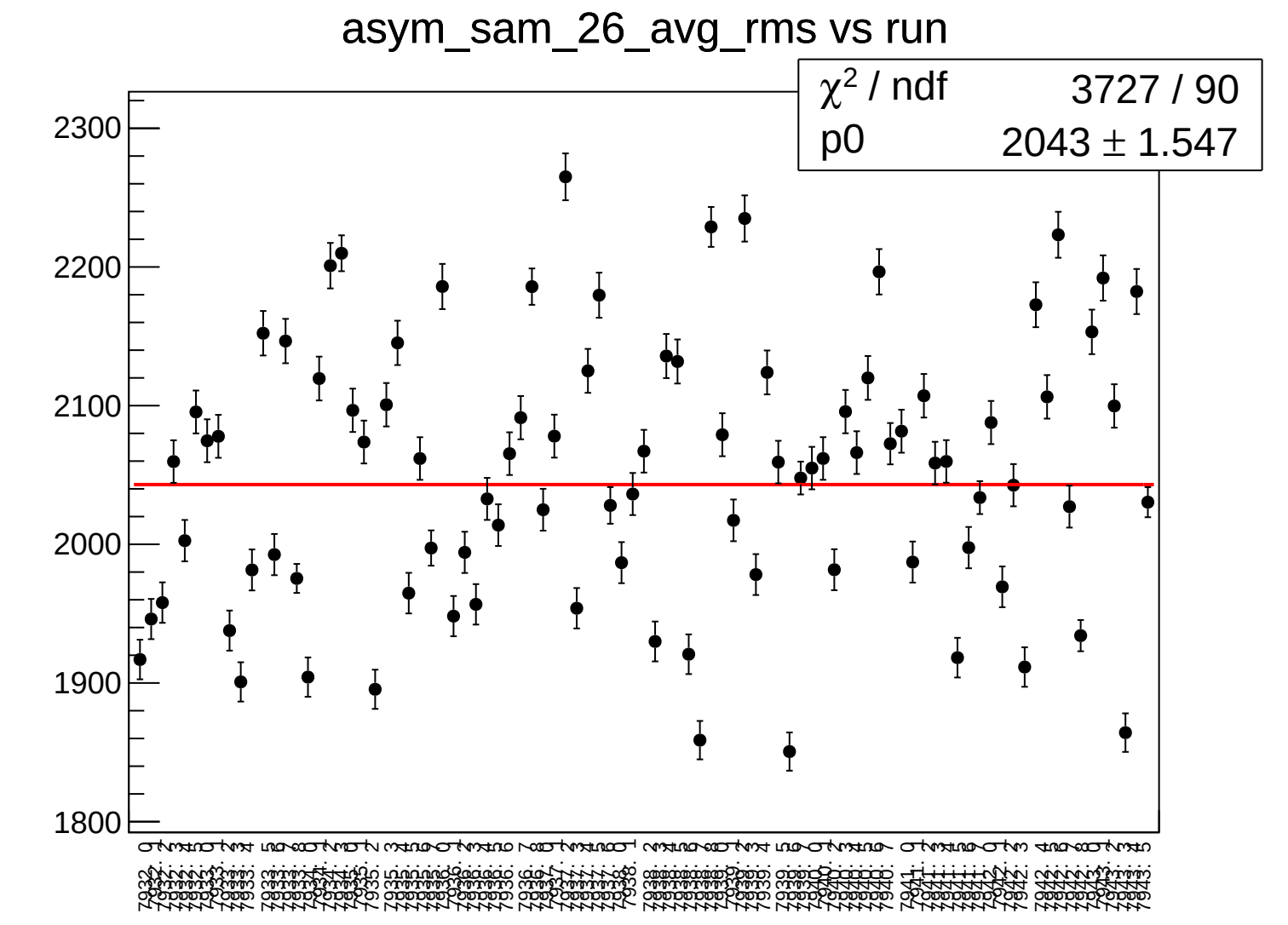

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.8 / 90
p0 −641.7 ± 2188
pull
Entries 91
Mean −26.23
Std Dev 0

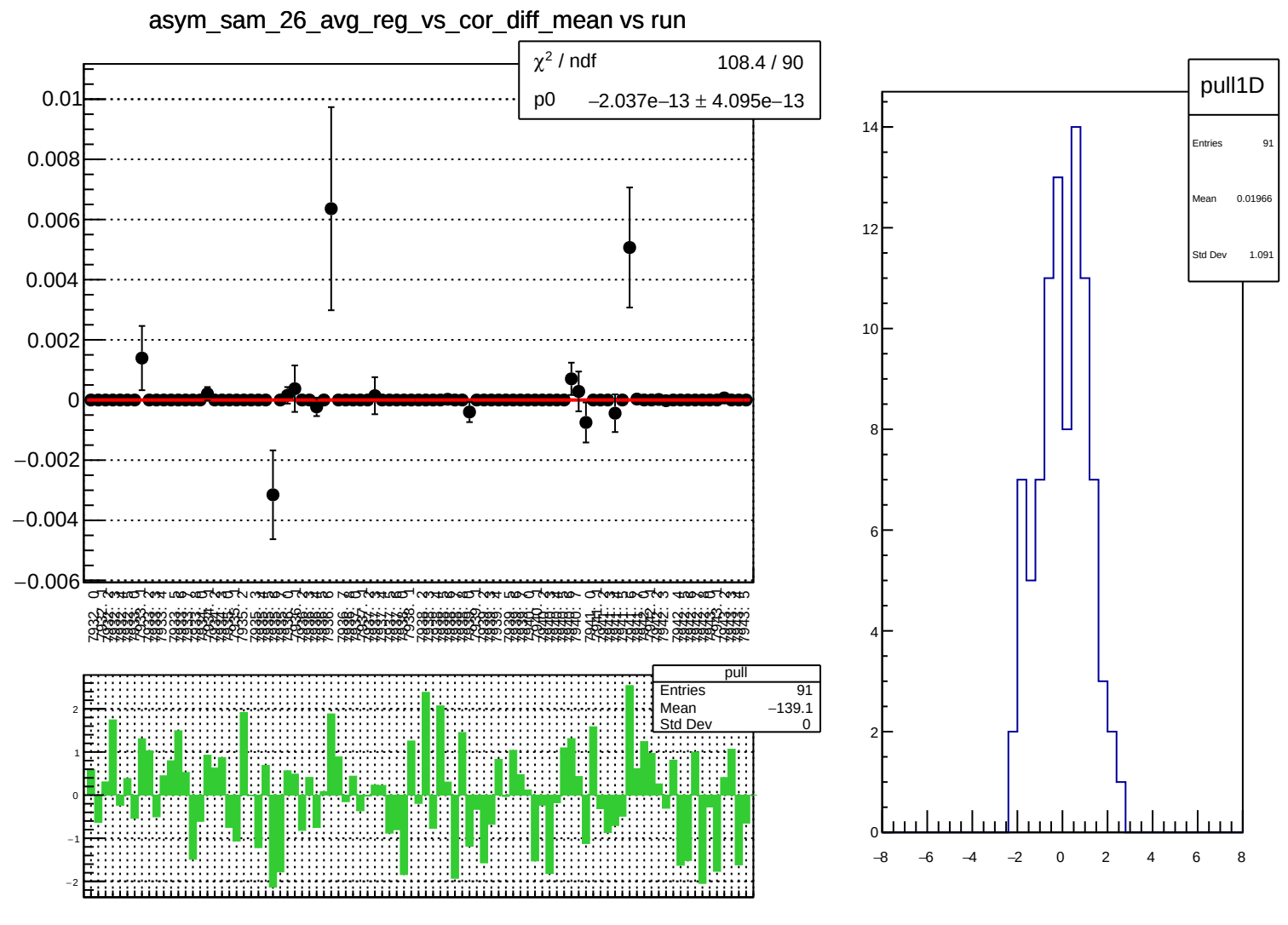

pull1D
Entries 91
Mean 0.0146
Std Dev 1.123

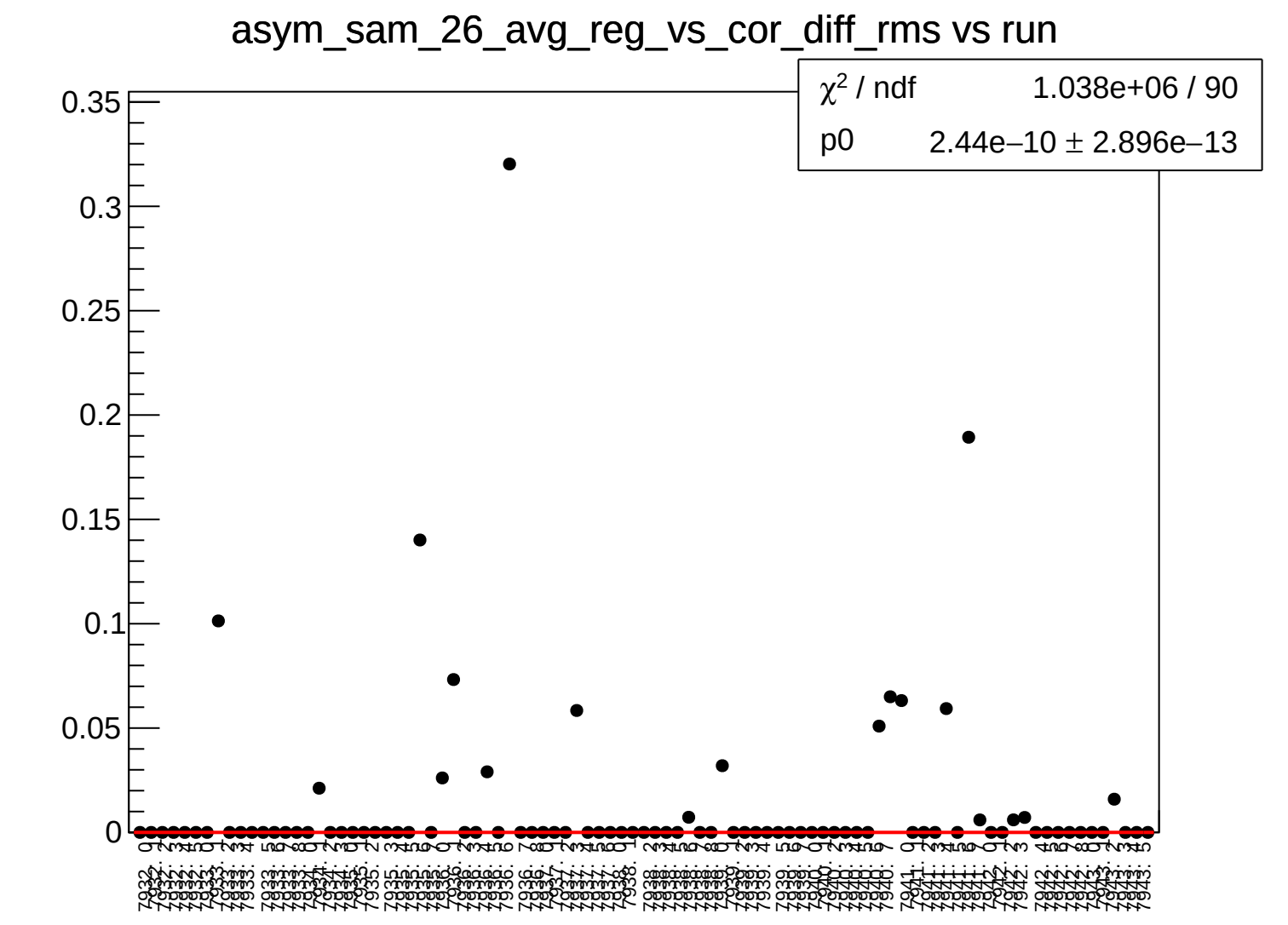

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4091 / 90
p0 2043 ± 1.547
2300
2200
2100
2000
1900
1800

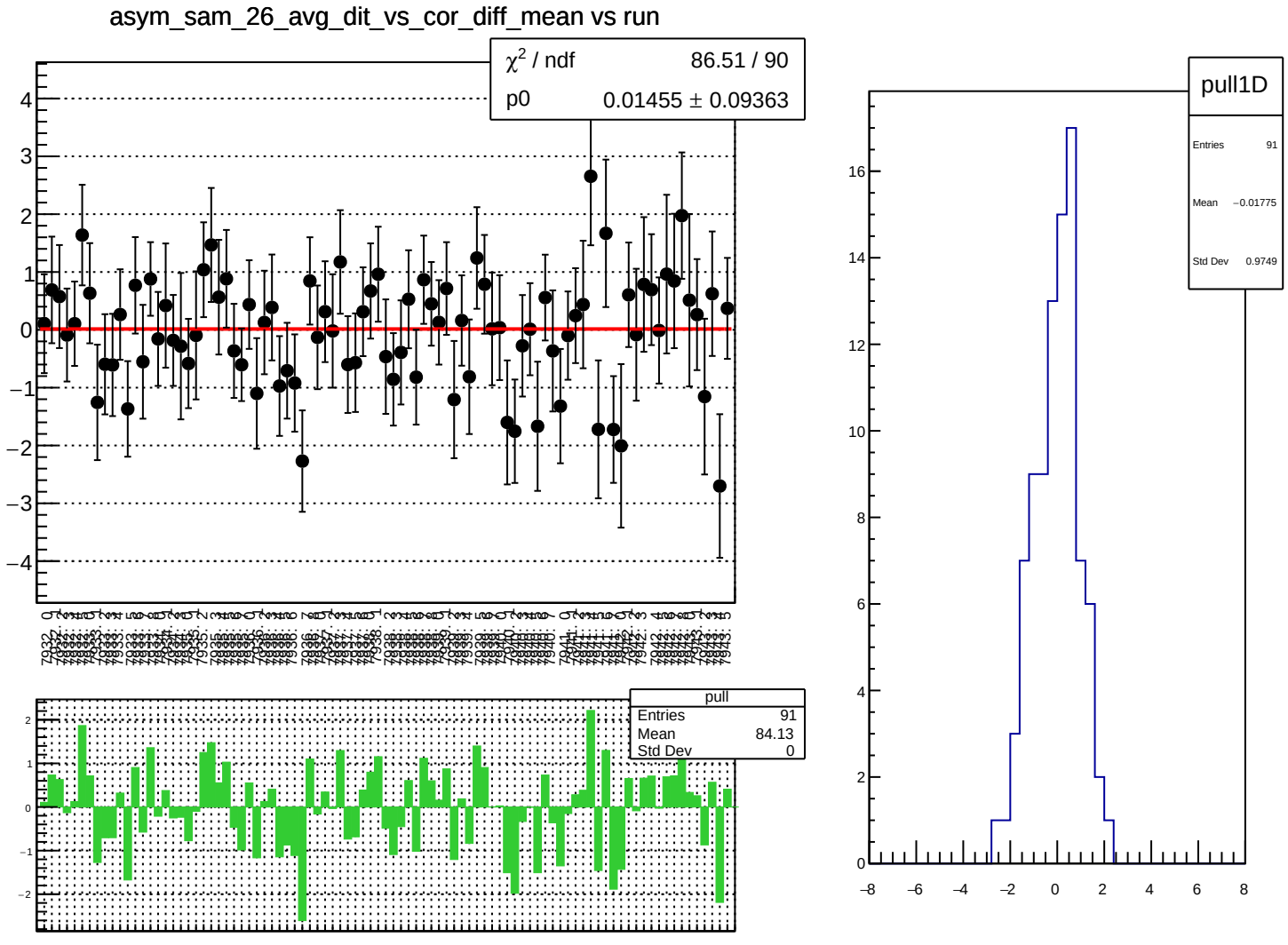

asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 114.2 / 90
p0 1591 ± 2188
pull
Entries 91
Mean −28.91
Std Dev 0

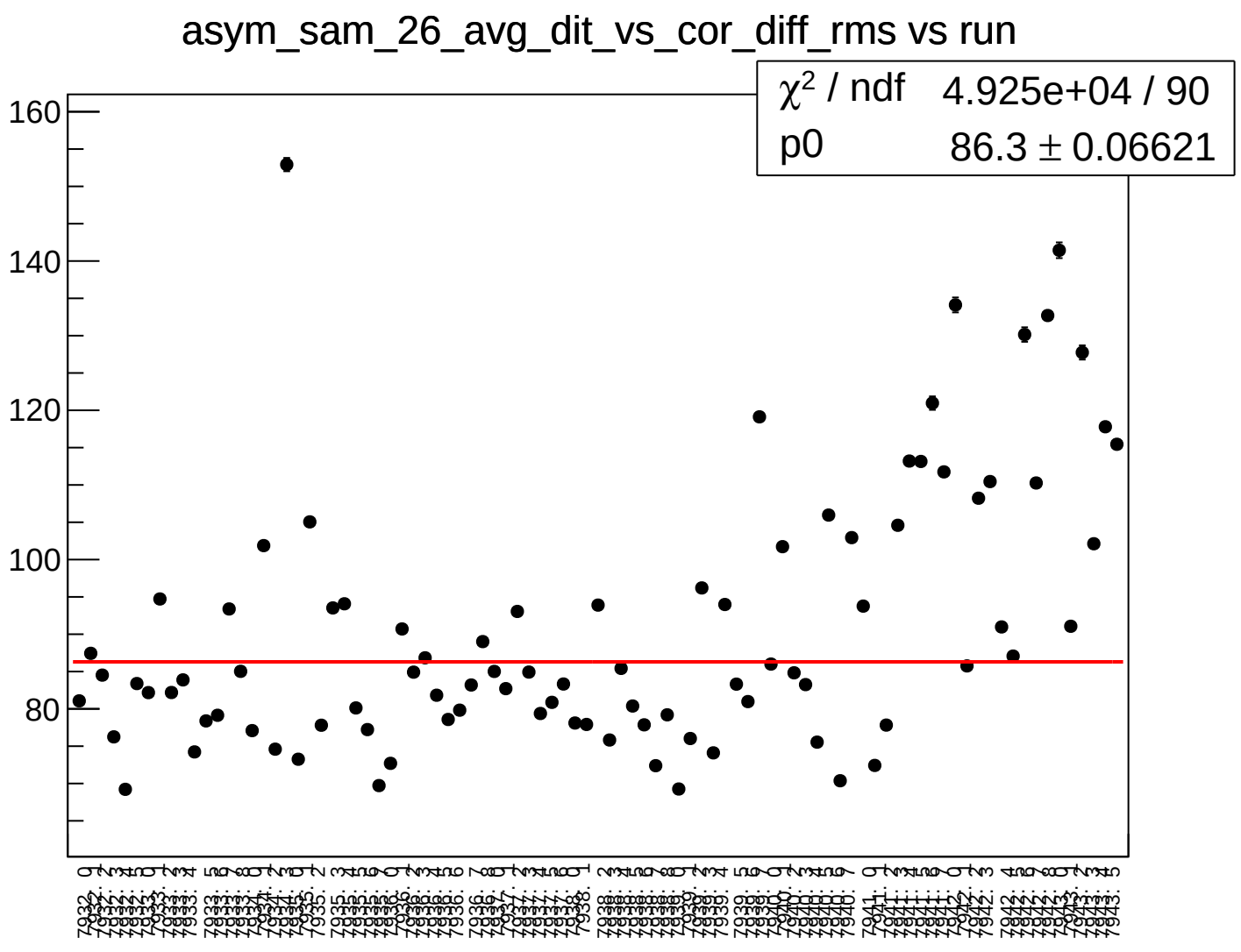

pull1D
Entries 91
Mean −0.01249
Std Dev 1.12

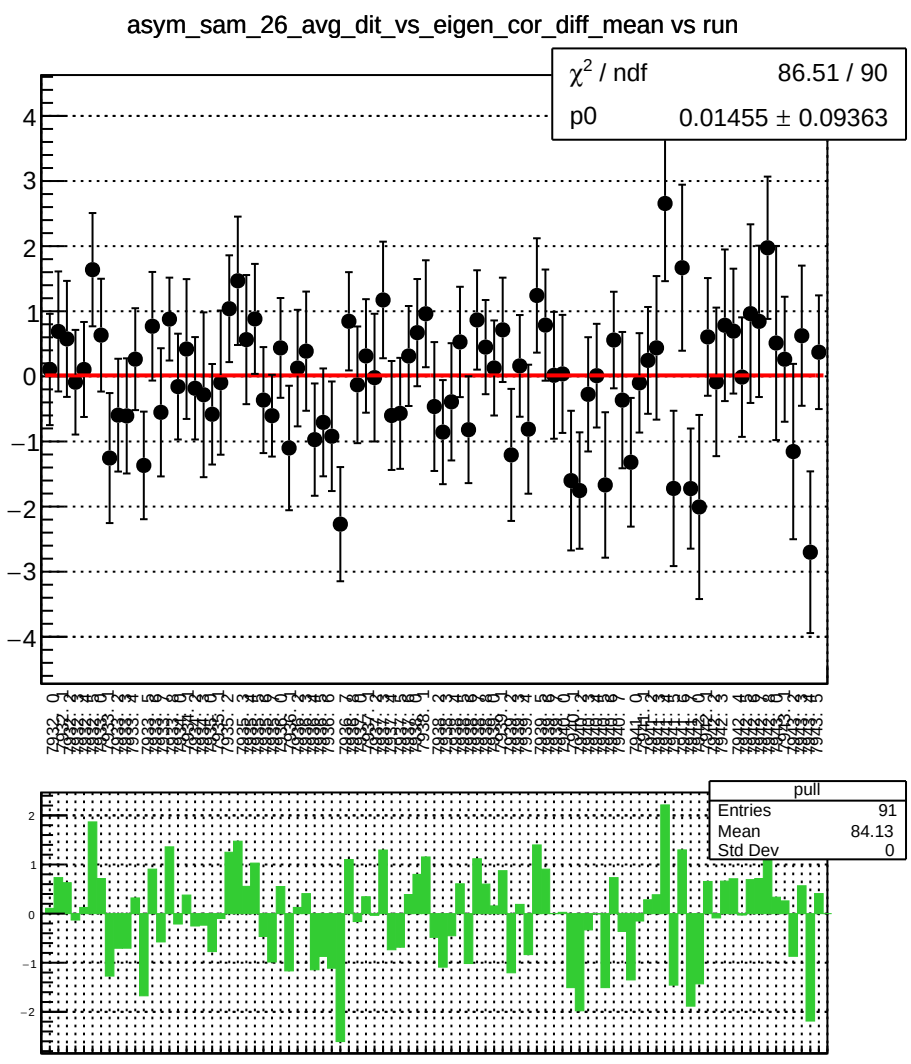

asym_sam_26_avg_rms vs run
χ^2 / ndf 3727 / 90
p0 2043 ± 1.547
2300
2200
2100
2000
1900
1800

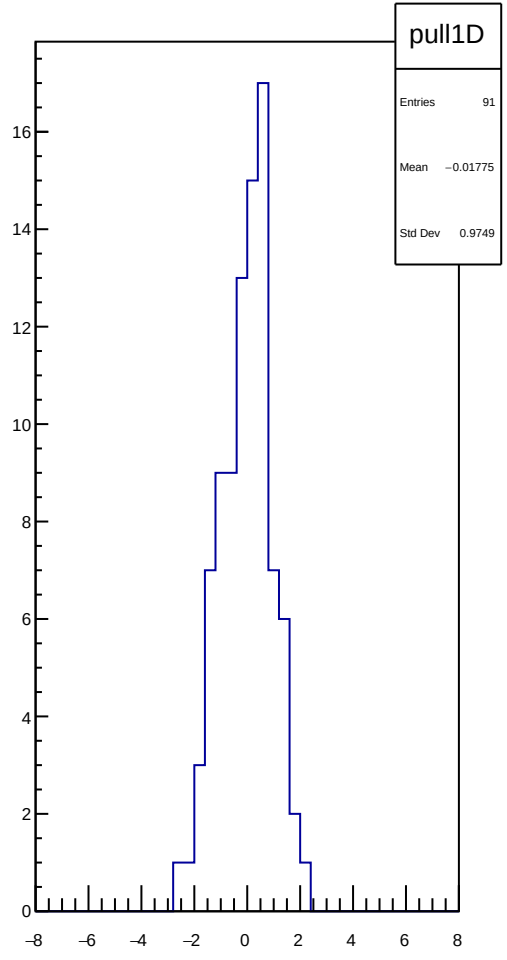

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 90
p0 −2.037e−13 ± 4.095e−13
pull
Entries 91
Mean −139.1
Std Dev 0
pull1D
Entries 91
Mean 0.01966
Std Dev 1.091

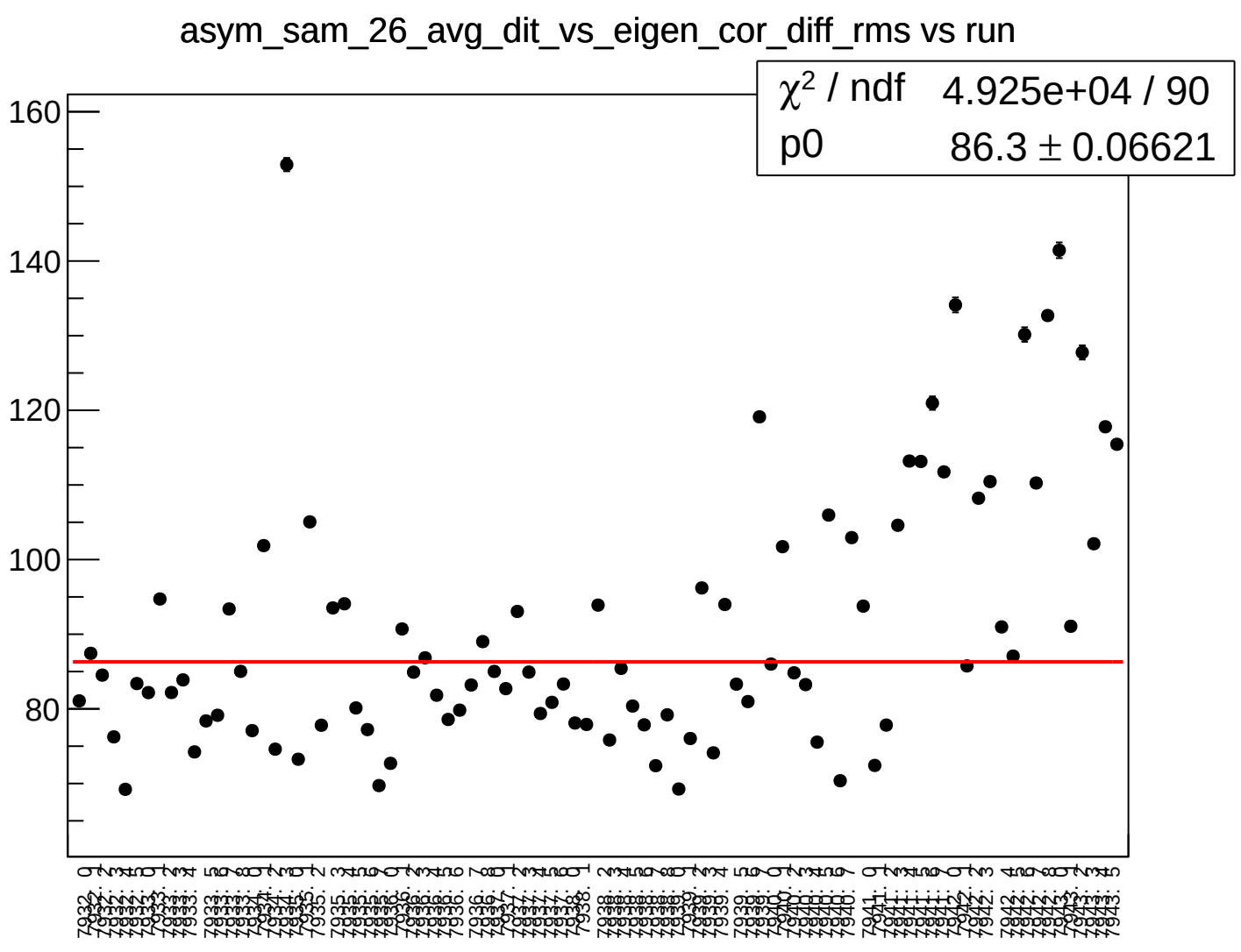

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 90
p0 2.44e−10 ± 2.896e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

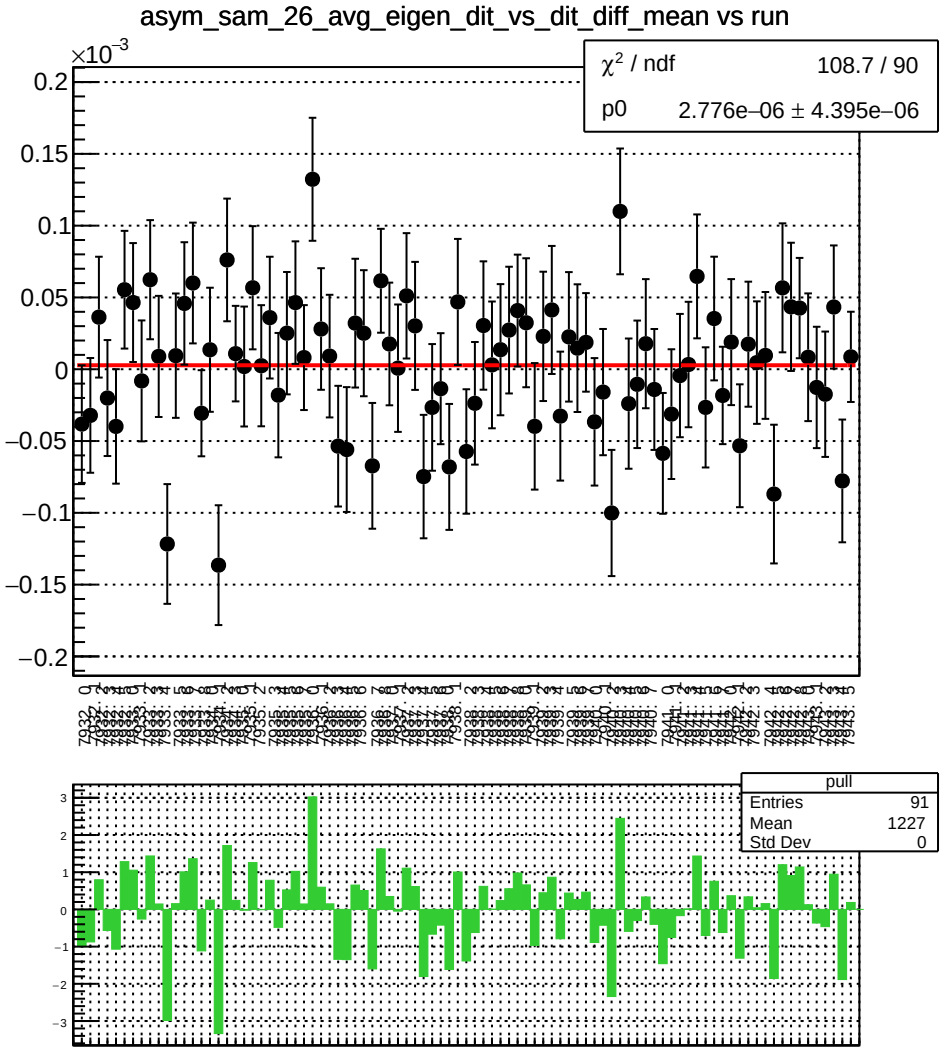

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 0.01455 ± 0.09363
pull
Entries 91
Mean 84.13
Std Dev 0
pull1D
Entries 91
Mean −0.01775
Std Dev 0.9749

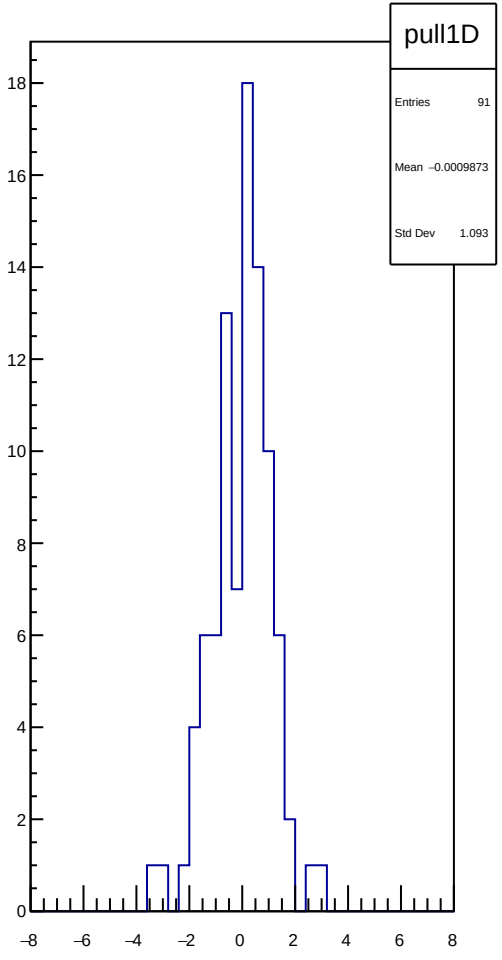

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.925e+04 / 90
p0 86.3 ± 0.06621
160
140
120
100
80

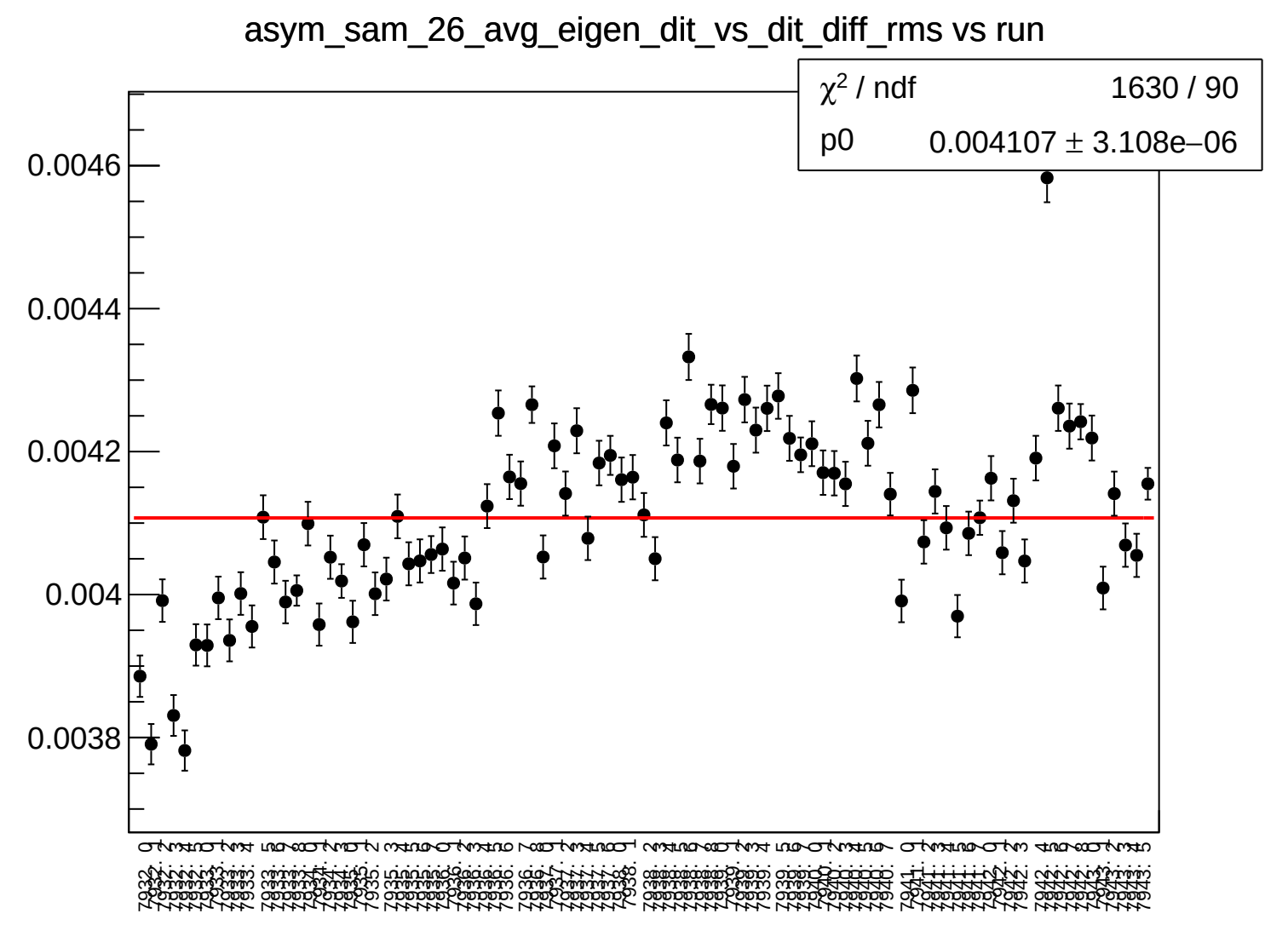

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 0.01455 ± 0.09363
pull
Entries 91
Mean 84.13
Std Dev 0

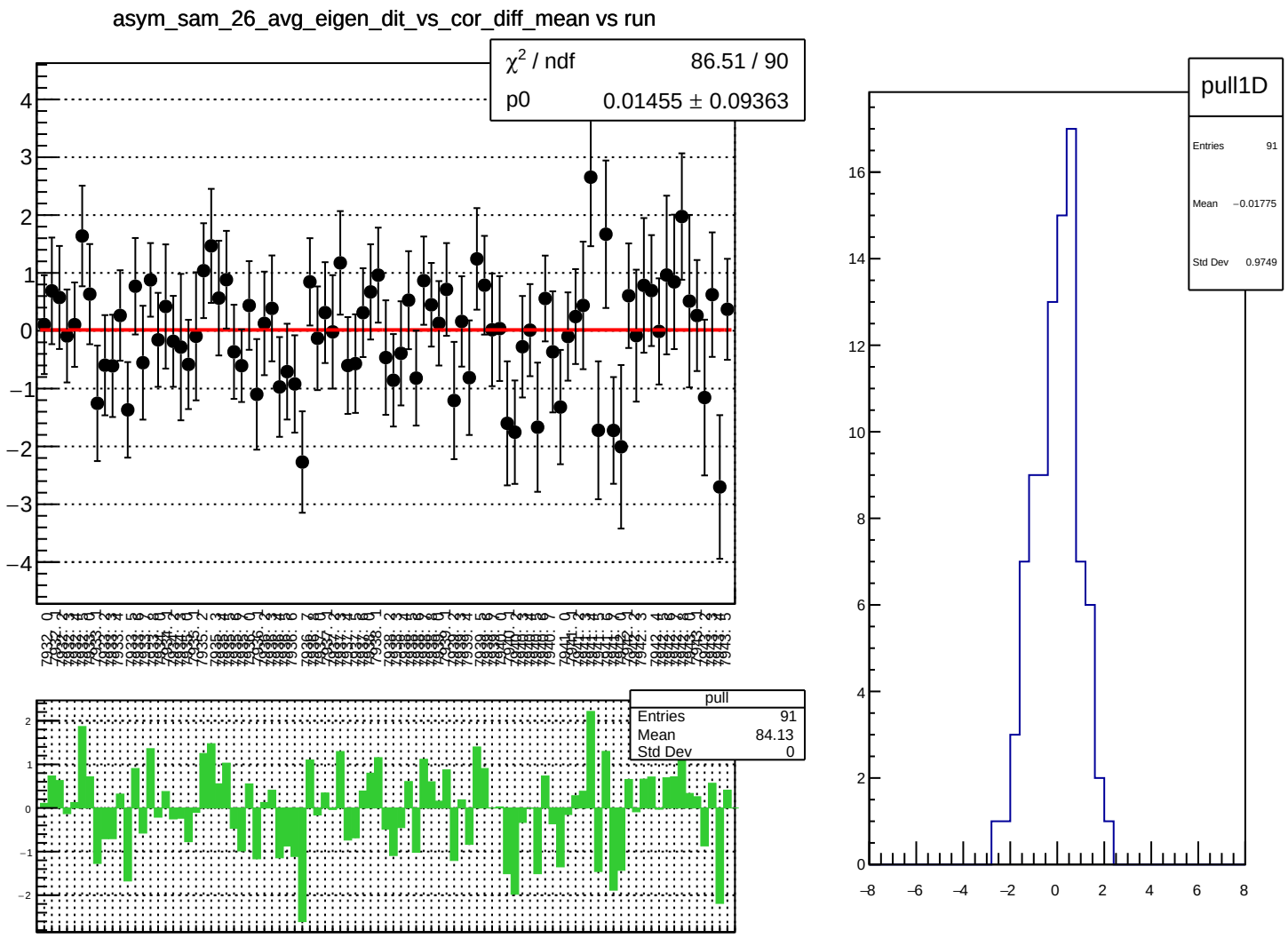

pull1D
Entries 91
Mean −0.01775
Std Dev 0.9749

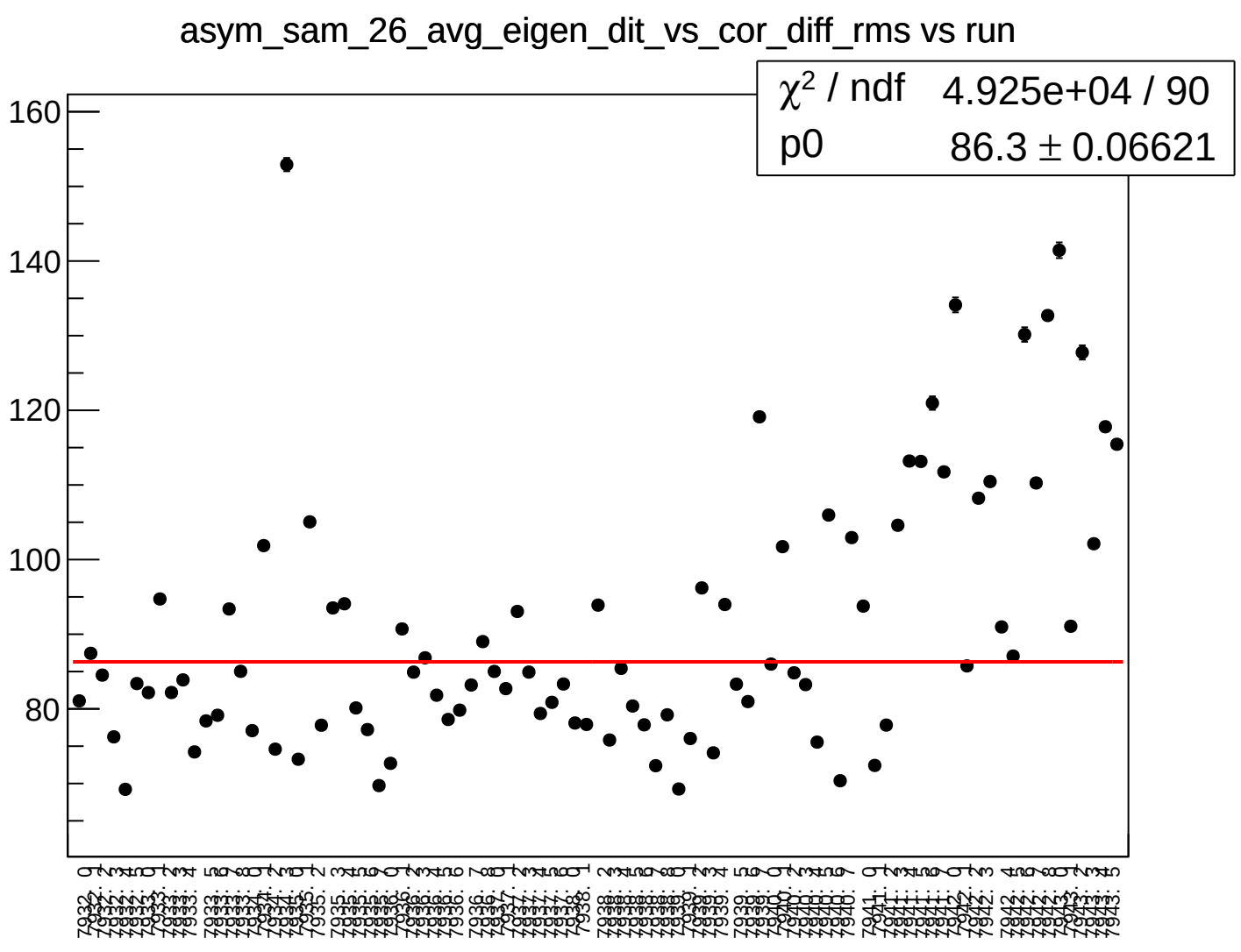

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.925e+04 / 90
p0 86.3 ± 0.06621
160
140
120
100
80

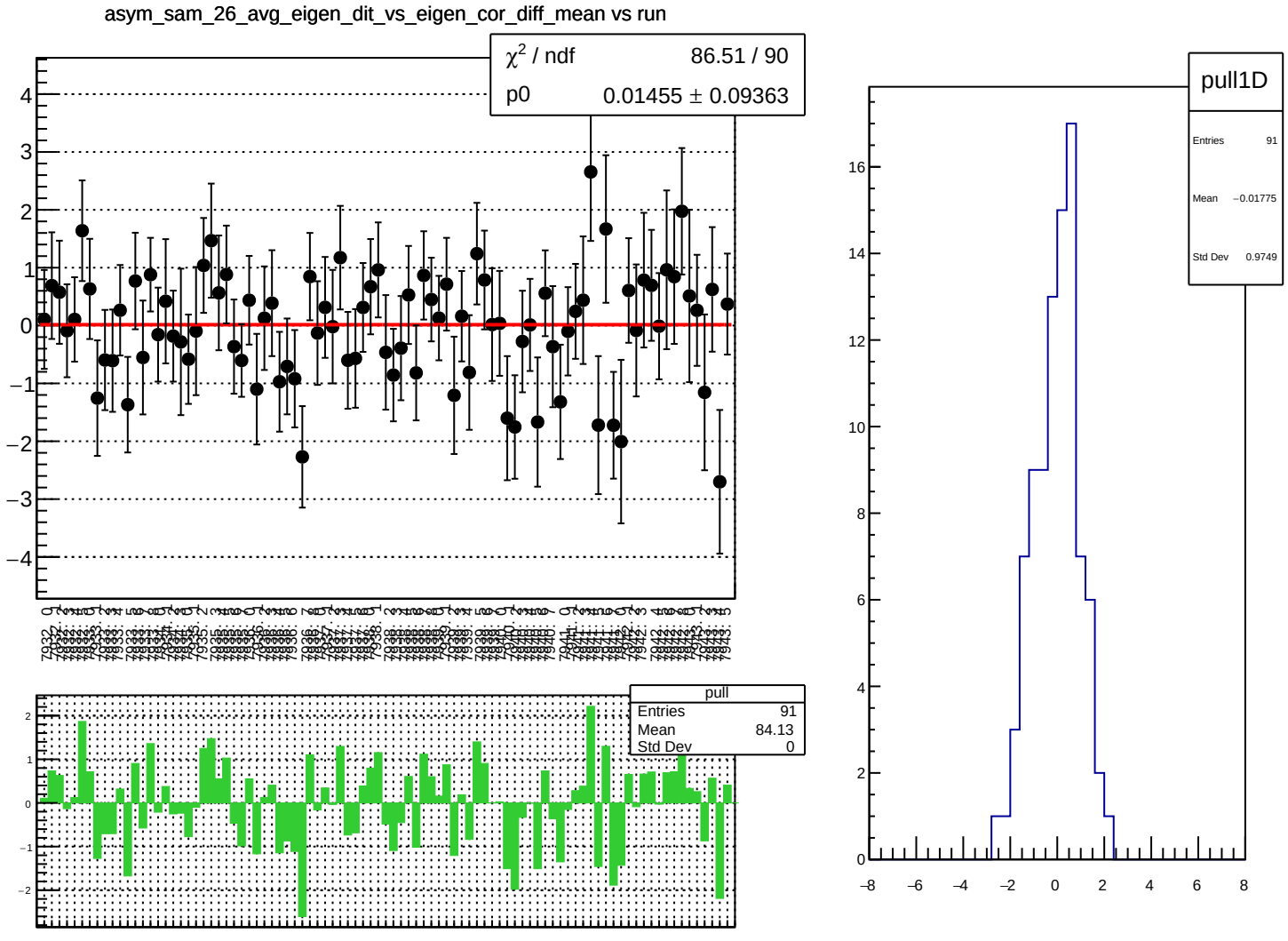

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.7 / 90
p0 2.776e−06 ± 4.395e−06
pull
Entries 91
Mean 1227
Std Dev 0

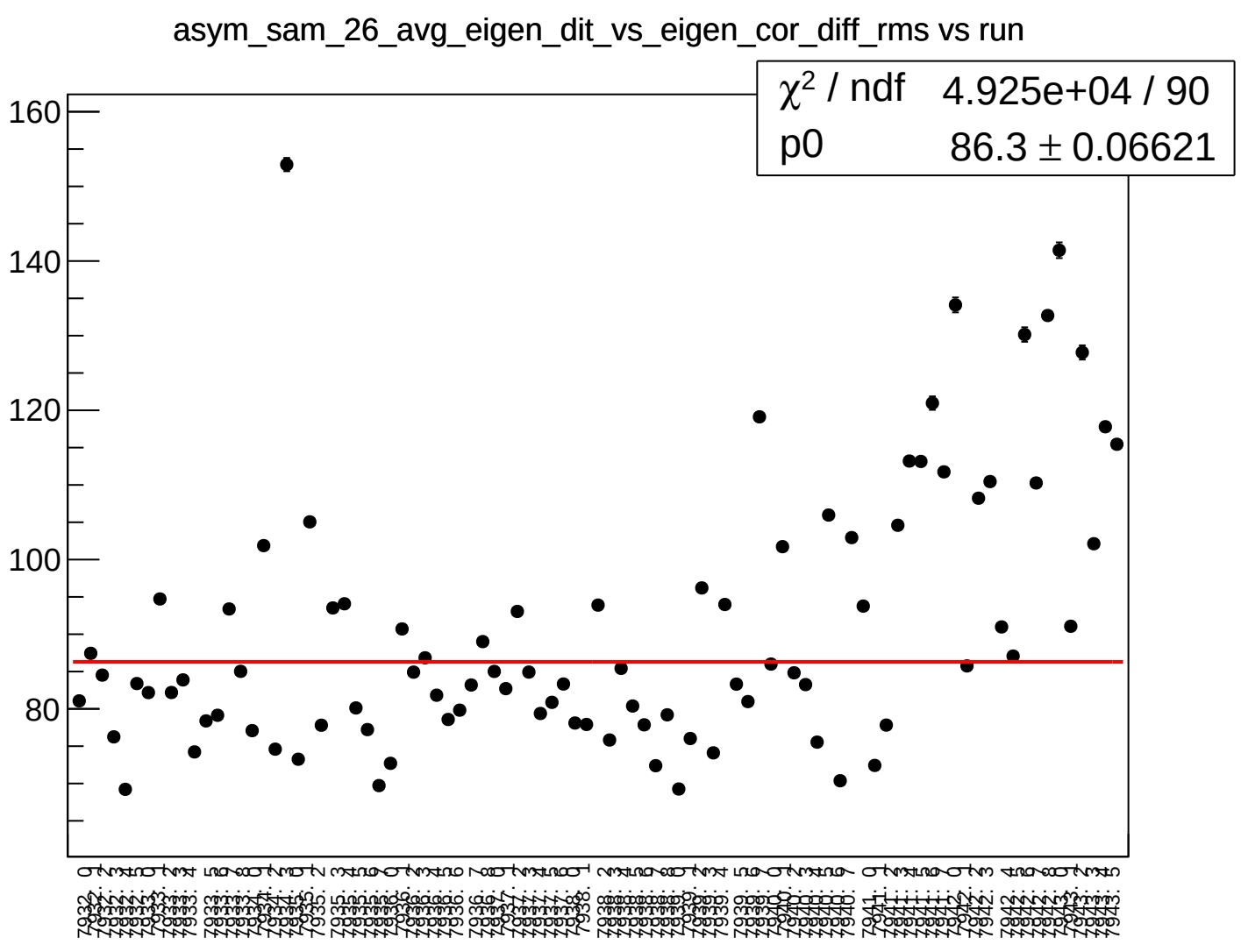

pull1D
Entries 91
Mean −0.0009873
Std Dev 1.093

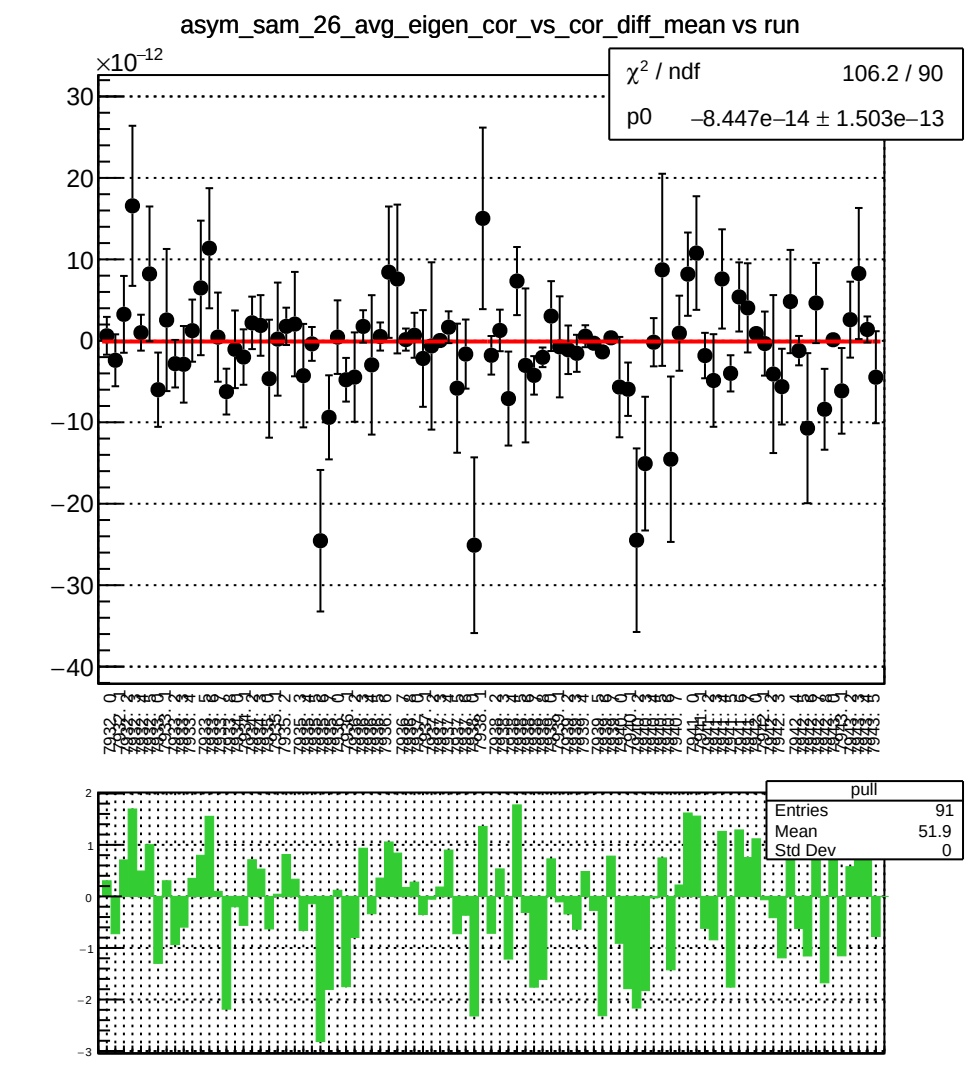

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1630 / 90
p0 0.004107 ± 3.108e−06
0.0046
0.0044
0.0042
0.004
0.0038

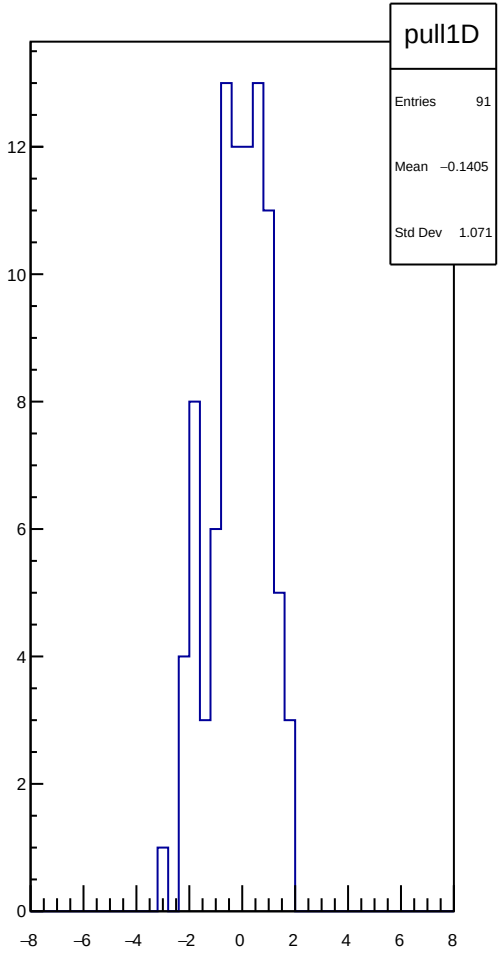

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 0.01455 ± 0.09363
pull
Entries 91
Mean 84.13
Std Dev 0
pull1D
Entries 91
Mean −0.01775
Std Dev 0.9749

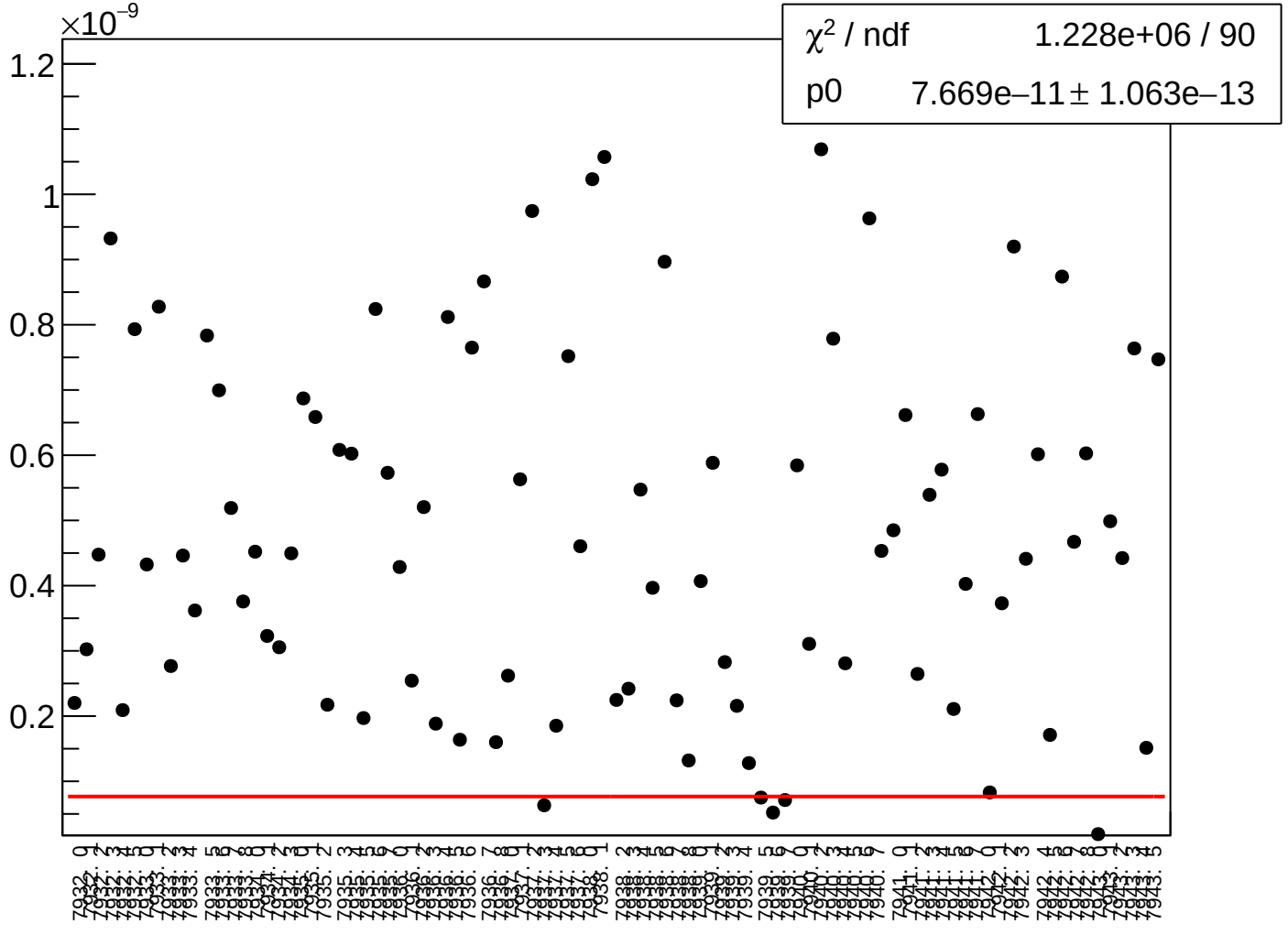

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.925e+04 / 90
p0 86.3 ± 0.06621
160
140
120
100
80

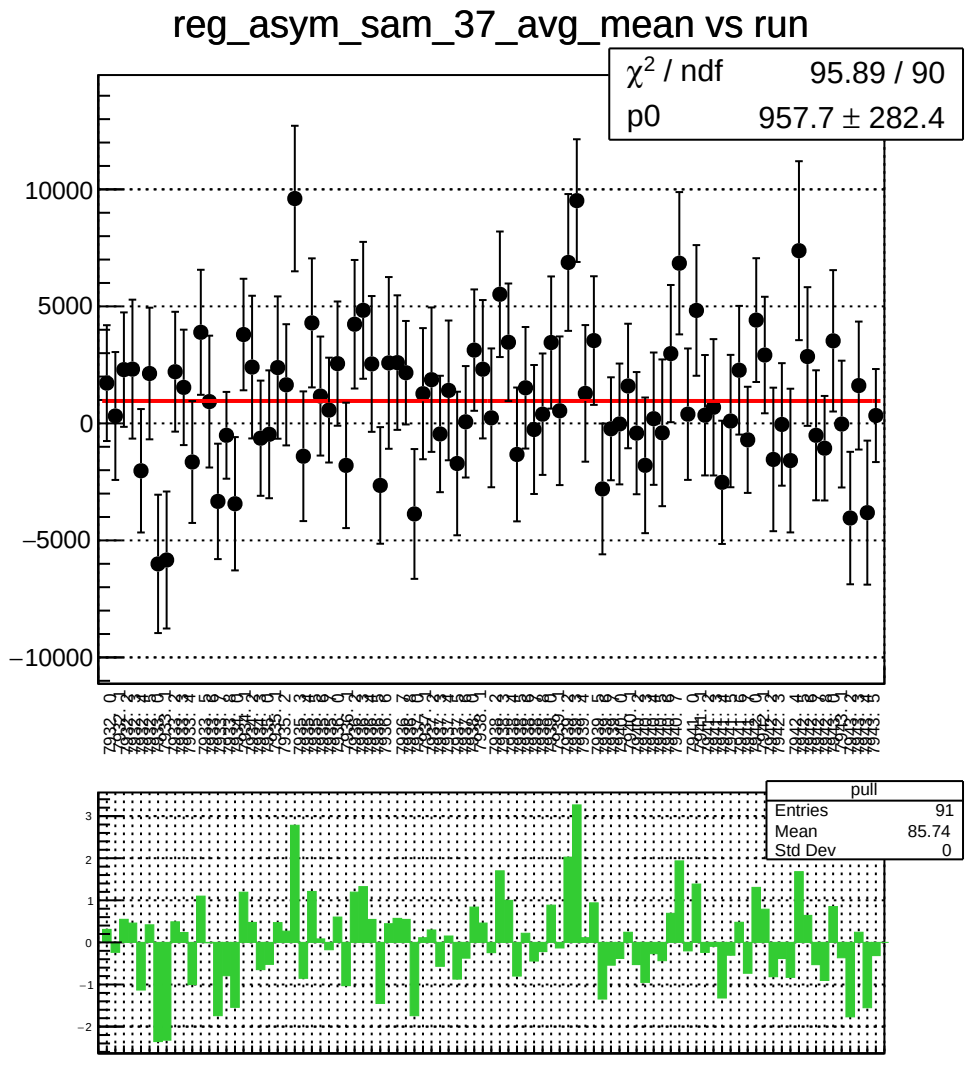

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.51 / 90
p0 0.01455 ± 0.09363
pull
Entries 91
Mean 84.13
Std Dev 0
pull1D
Entries 91
Mean −0.01775
Std Dev 0.9749

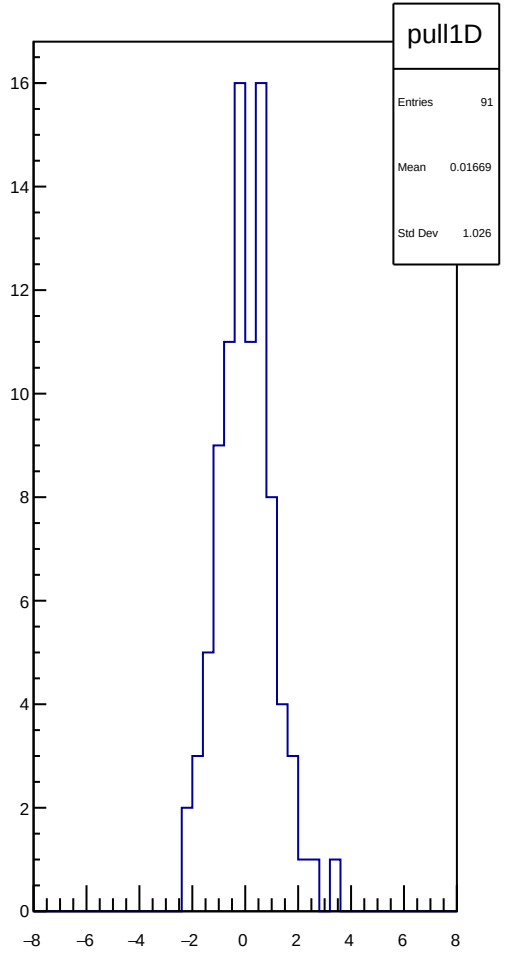

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.925e+04 / 90
p0 86.3 ± 0.06621
160
140
120
100
80

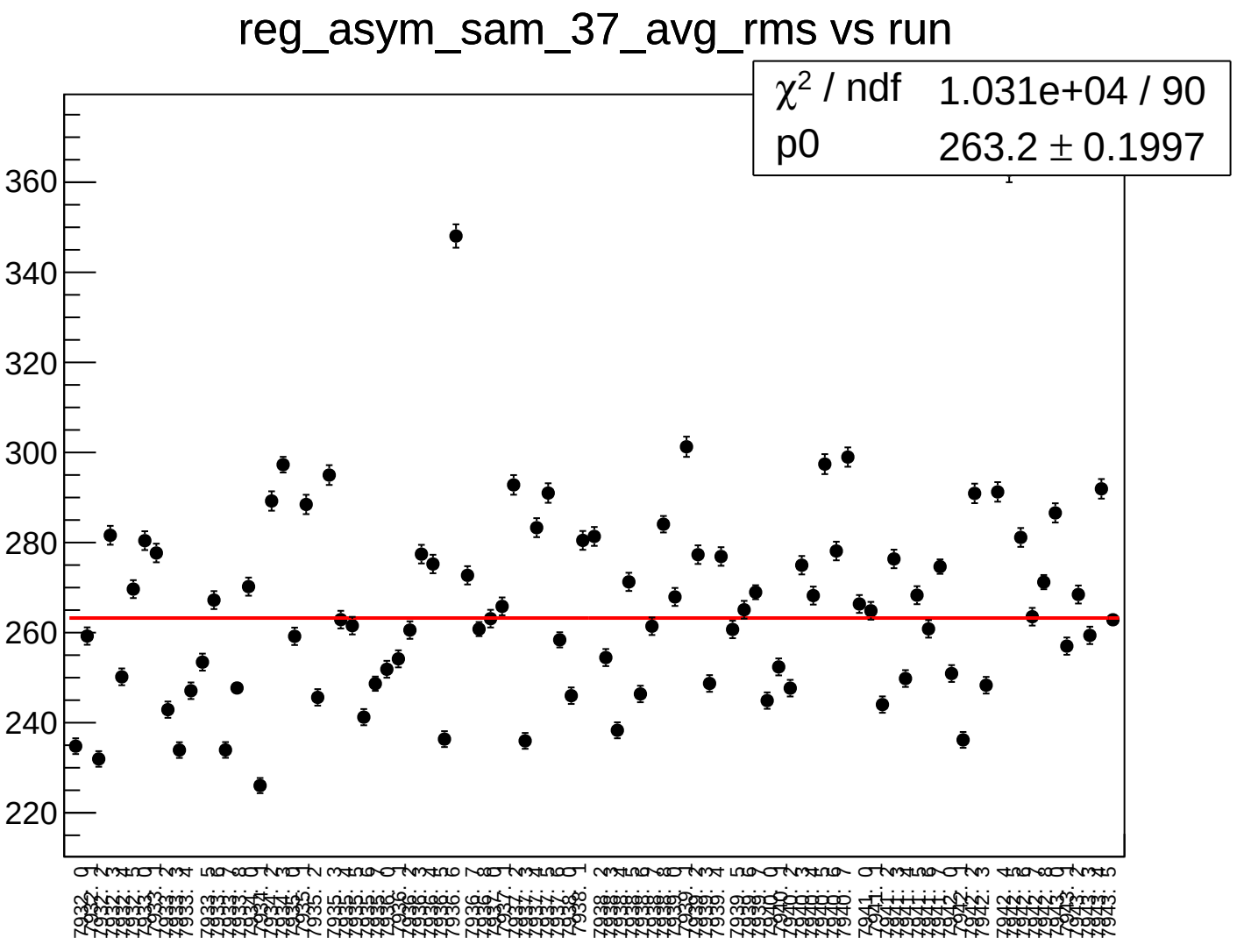

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.2 / 90
p0 −8.447e−14 ± 1.503e−13
pull
Entries 91
Mean 51.9
Std Dev 0

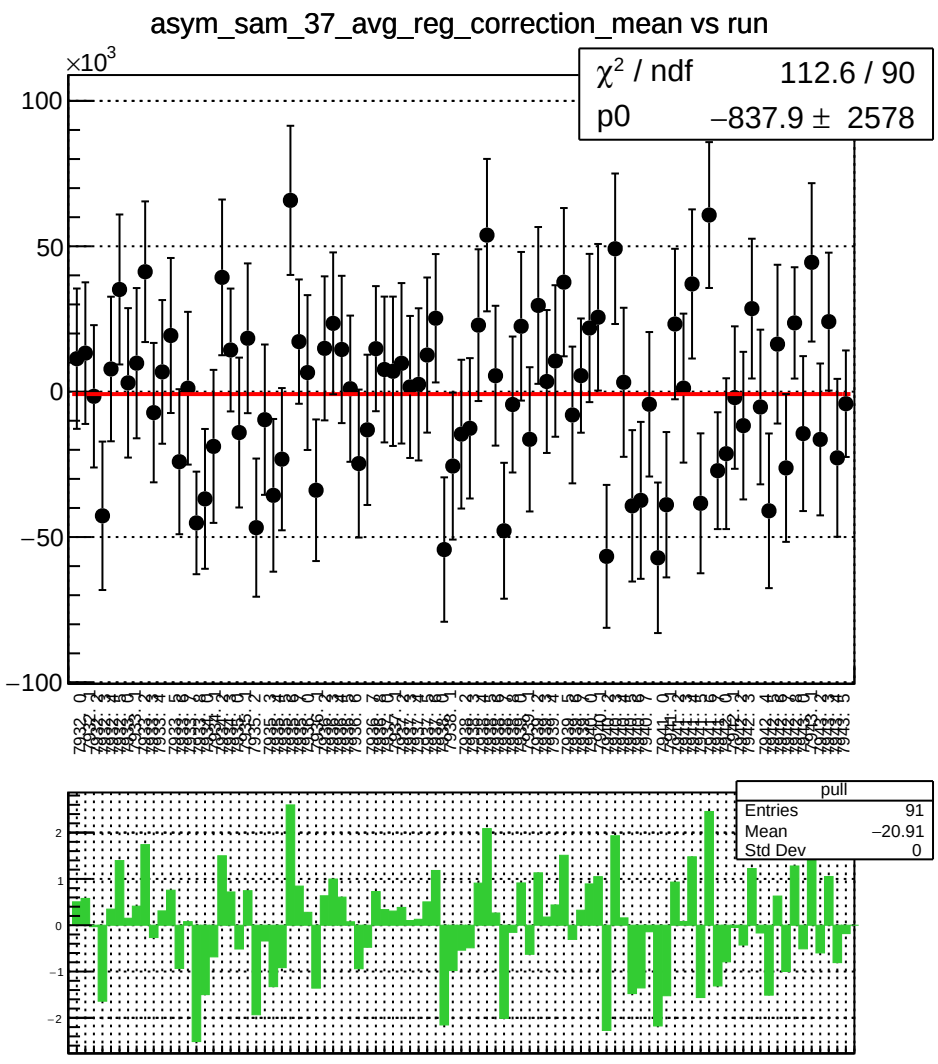

pull1D
Entries 91
Mean −0.1405
Std Dev 1.071

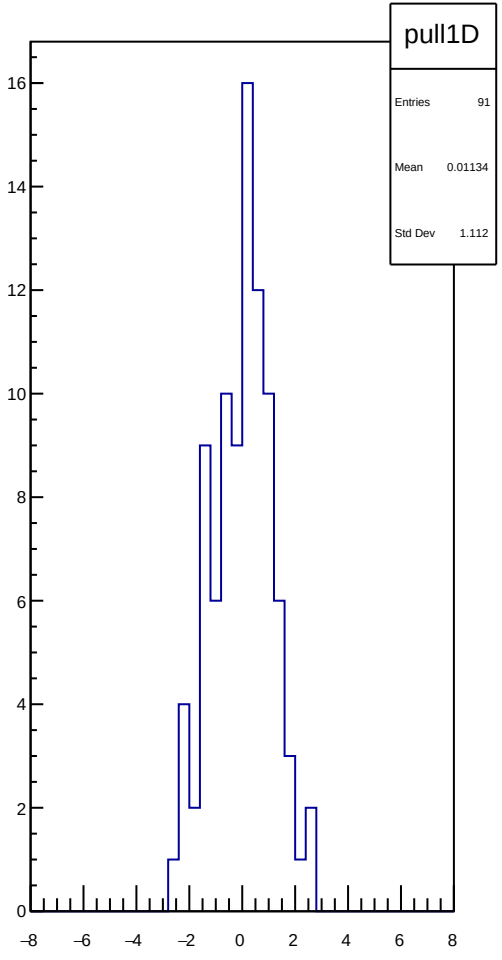

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.228e+06 / 90
p0 7.669e−11 ± 1.063e−13
1.2
1
0.8
0.6
0.4
0.2

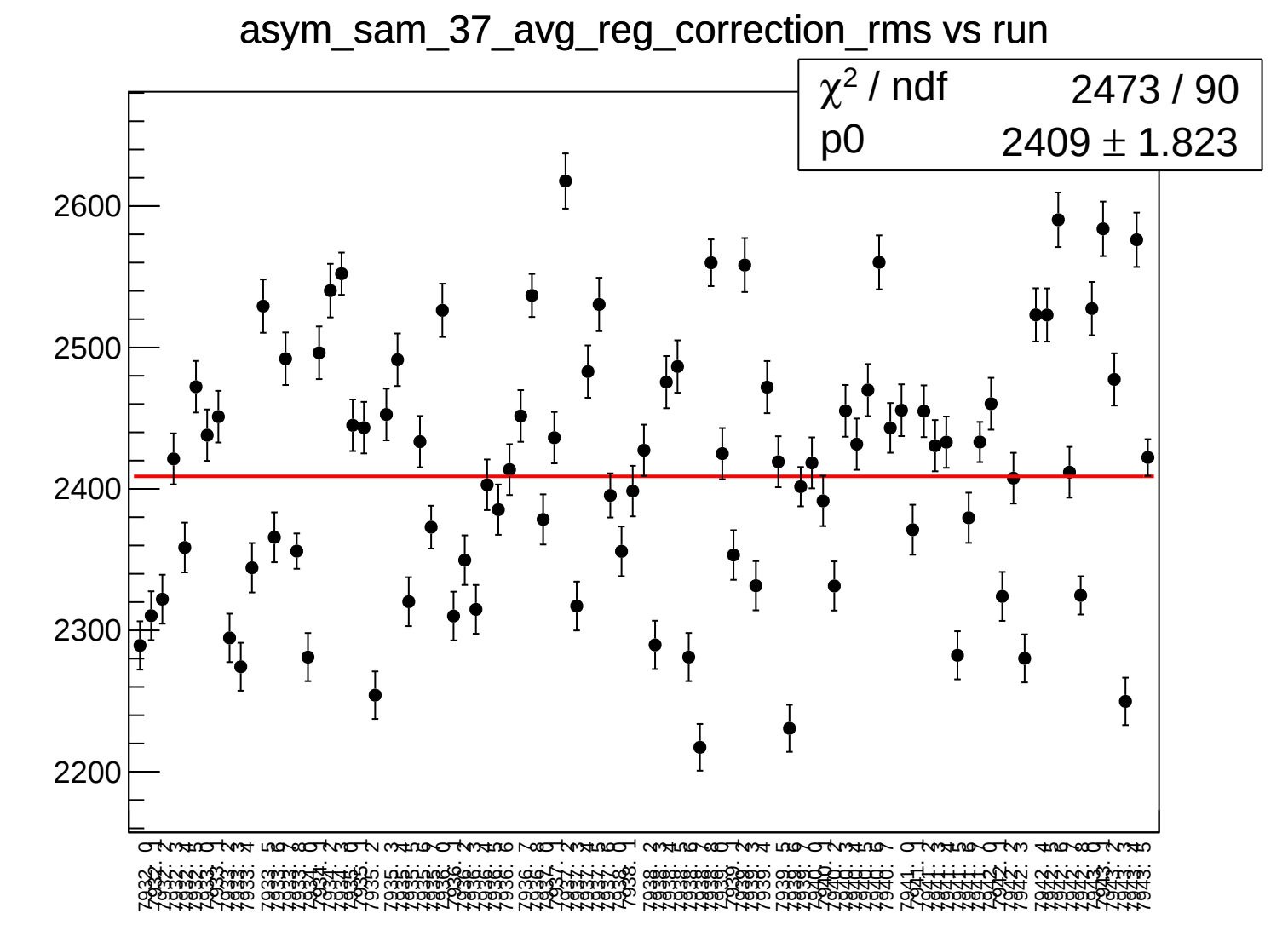

reg_asym_sam_37_avg_mean vs run
χ² / ndf 95.89 / 90
p0 957.7 ± 282.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 85.74
Std Dev 0
3
2
1
0
−1
−2

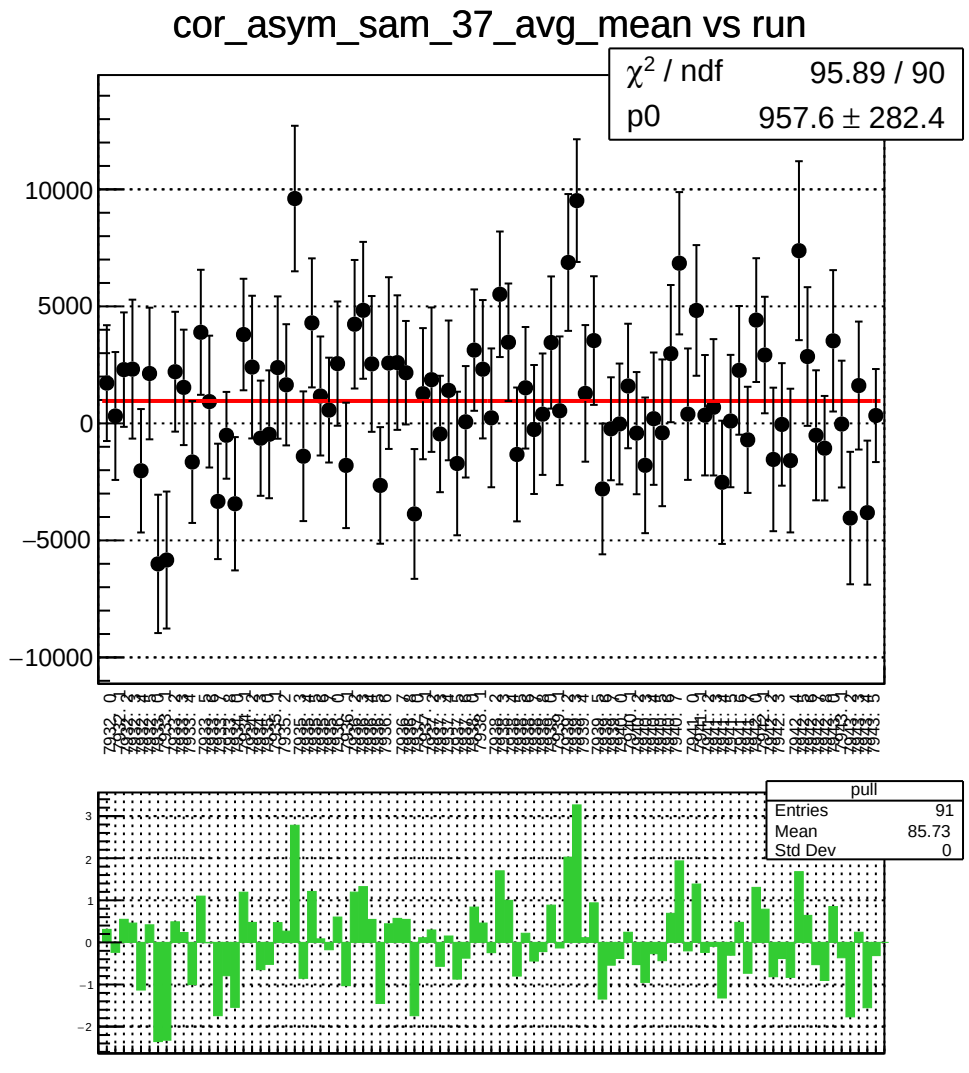

pull1D
Entries 91
Mean 0.01669
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

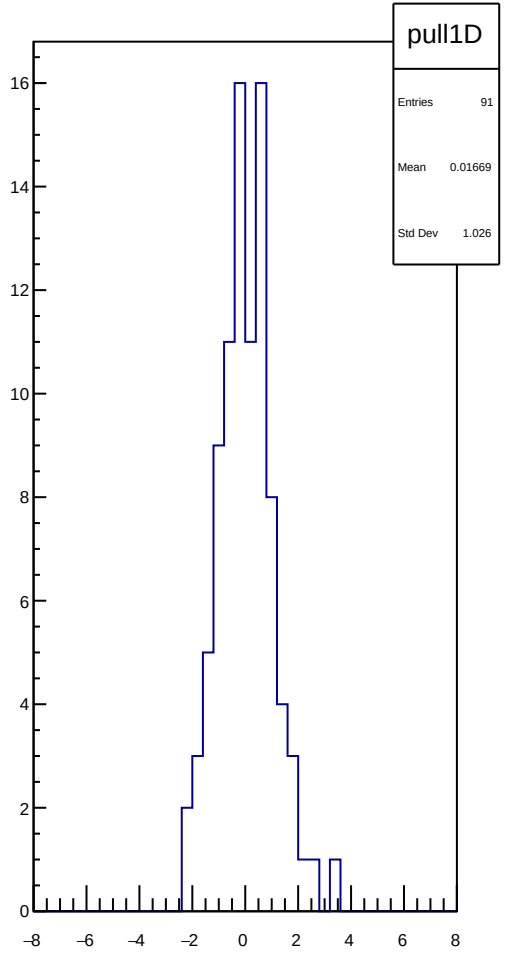

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.031e+04 / 90
p0 263.2 ± 0.1997
360
340
320
300
280
260
240
220

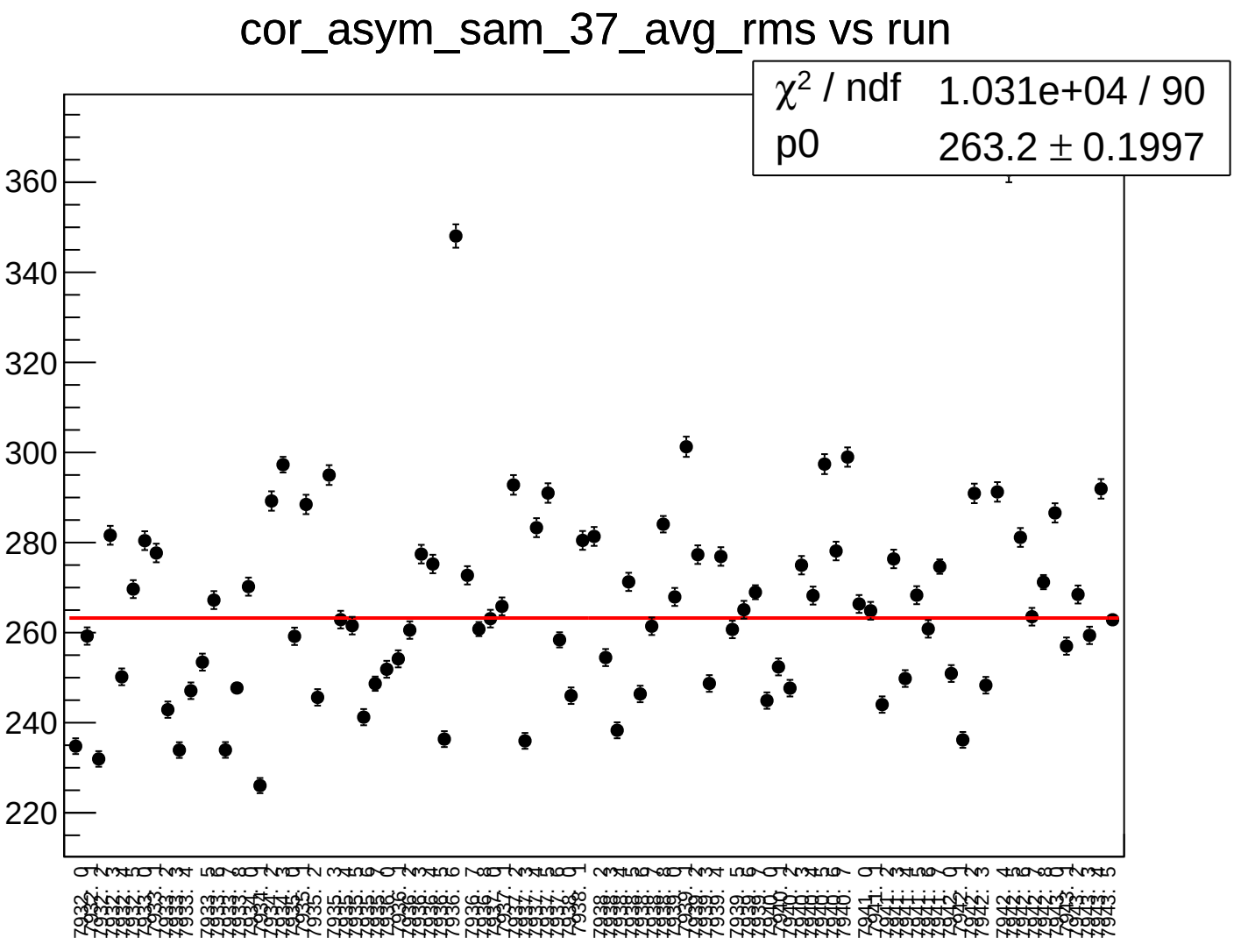

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 112.6 / 90
p0 −837.9 ± 2578
100
50
0
−50
−100
pull
Entries 91
Mean −20.91
Std Dev 0
2
1
0
−1
−2

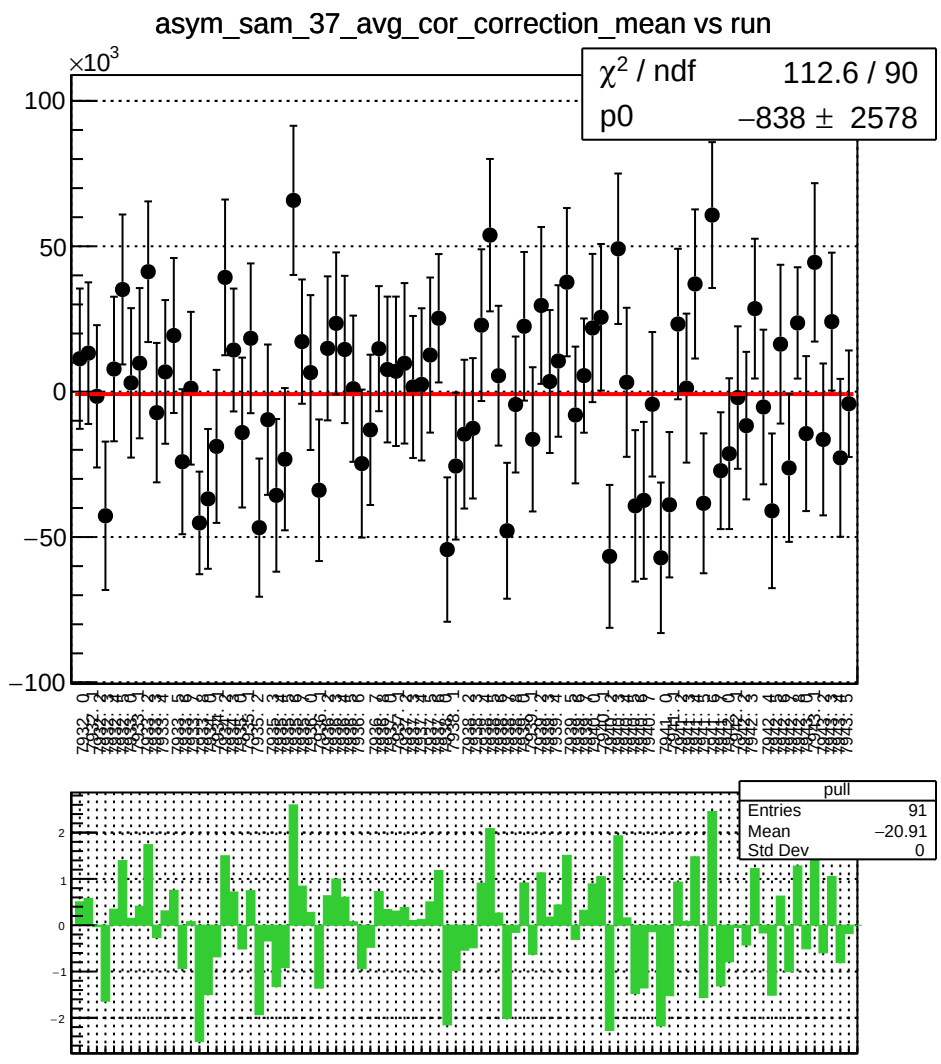

pull1D
Entries 91
Mean 0.01134
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

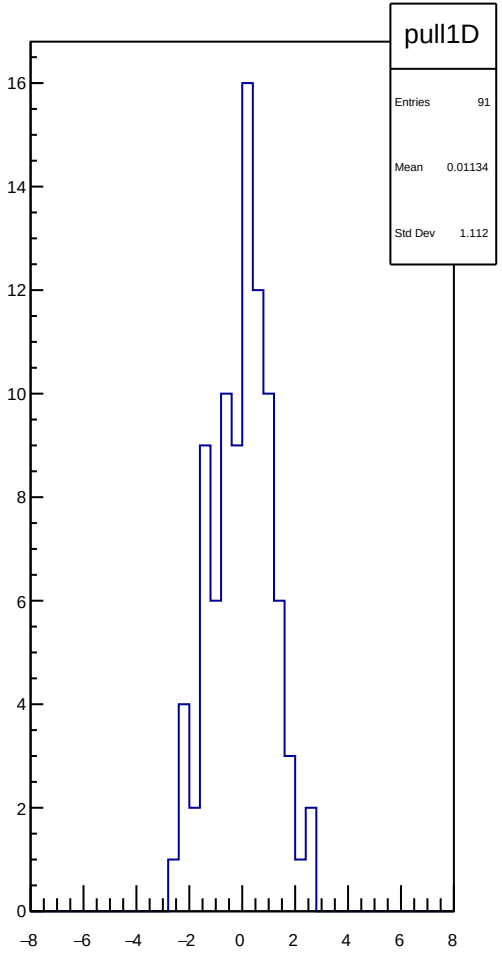

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2473 / 90
p0 2409 ± 1.823
2600
2500
2400
2300
2200

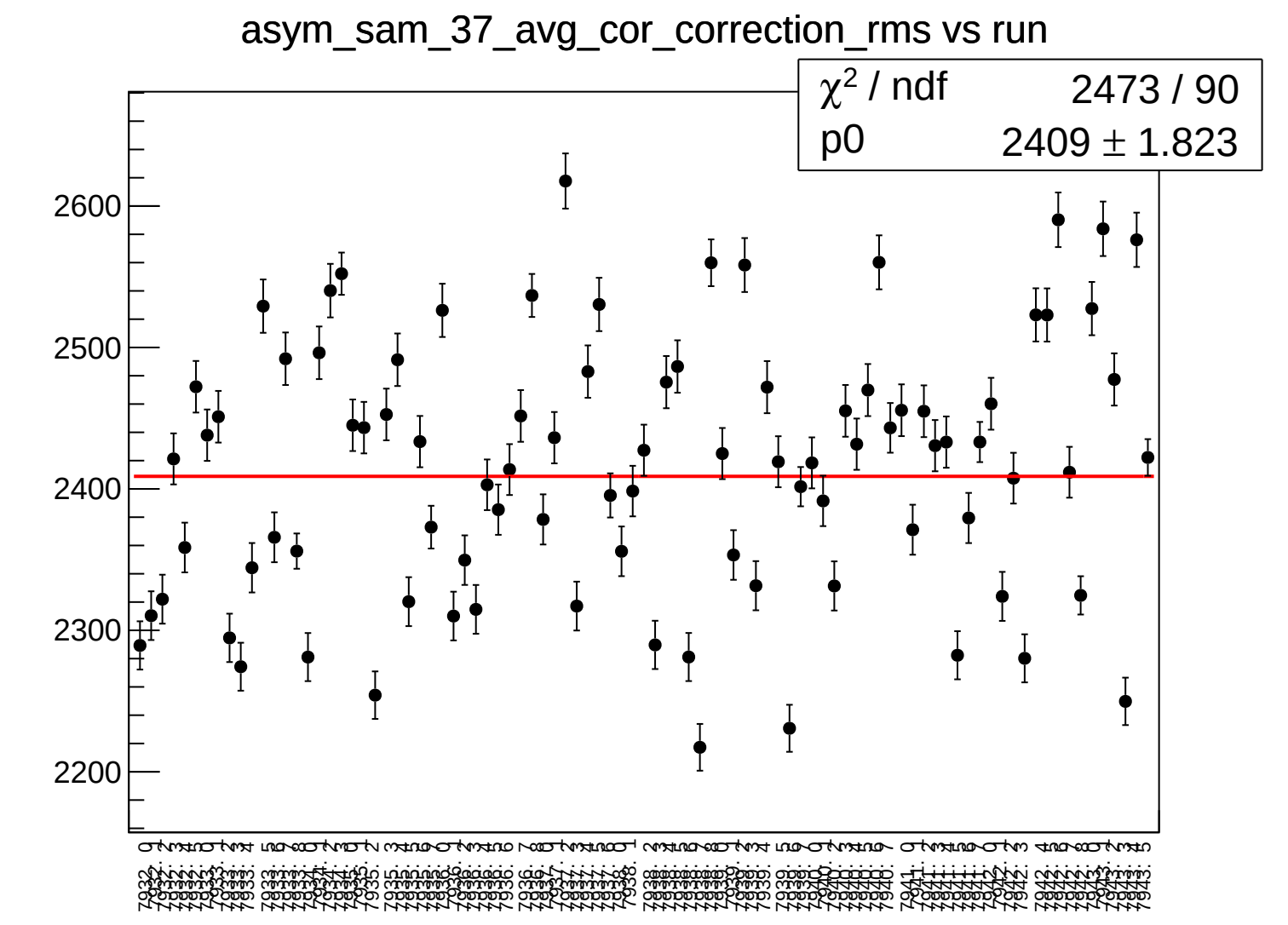

cor_asym_sam_37_avg_mean vs run
χ² / ndf 95.89 / 90
p0 957.6 ± 282.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 85.73
Std Dev 0
3
2
1
0
−1
−2

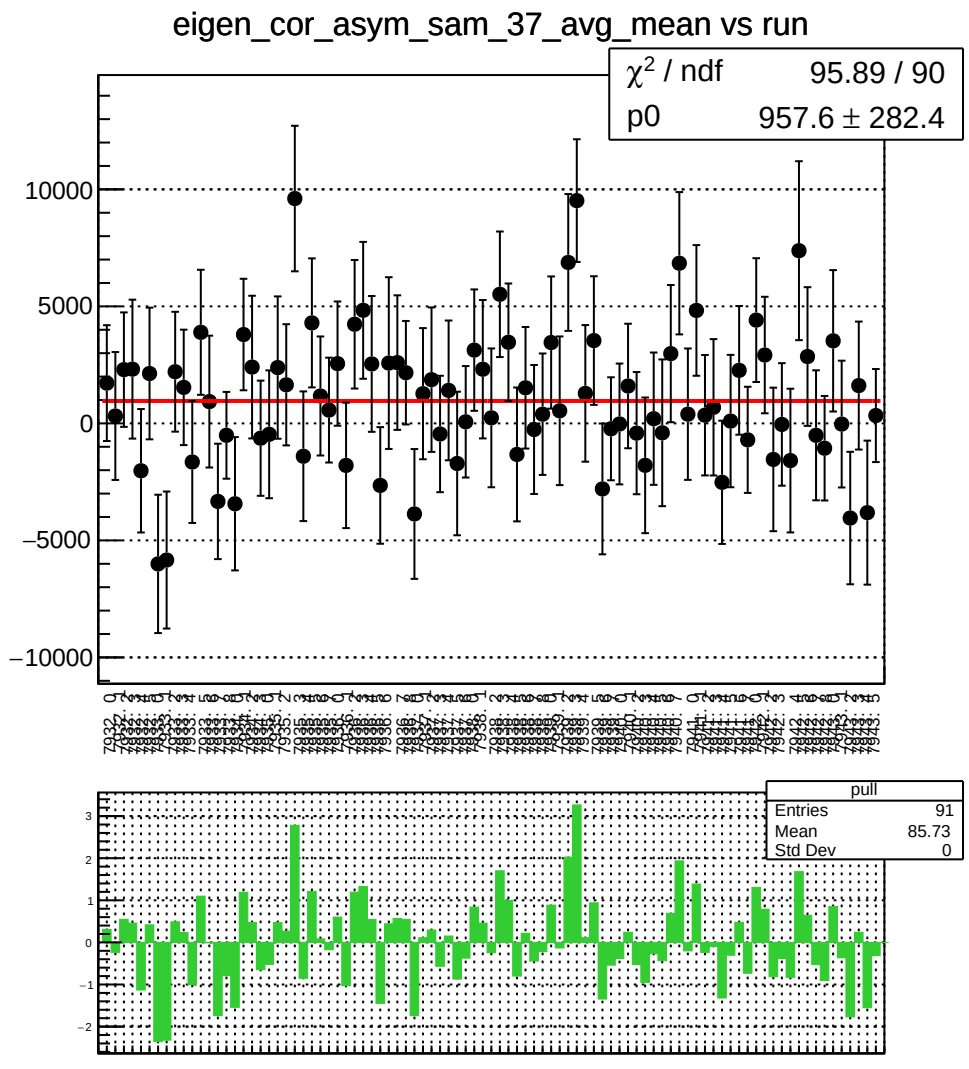

pull1D
Entries 91
Mean 0.01669
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

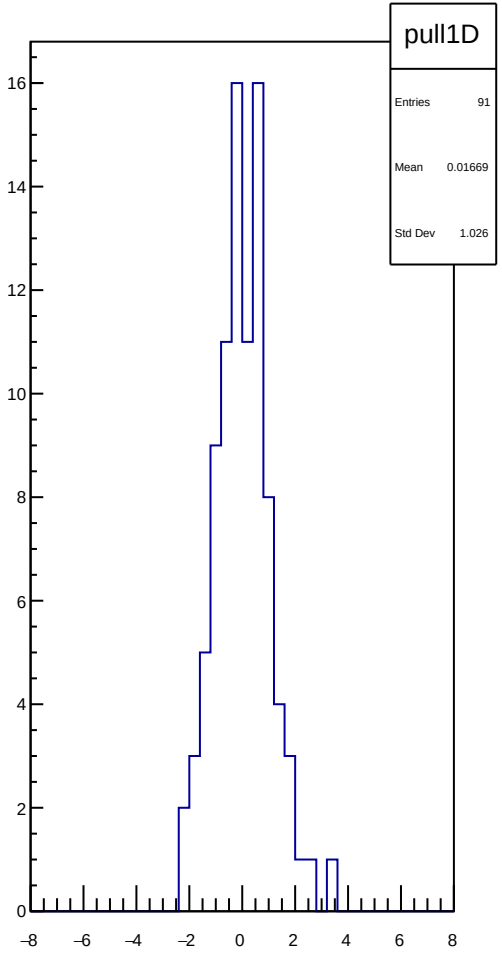

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.031e+04 / 90
p0 263.2 ± 0.1997
360
340
320
300
280
260
240
220

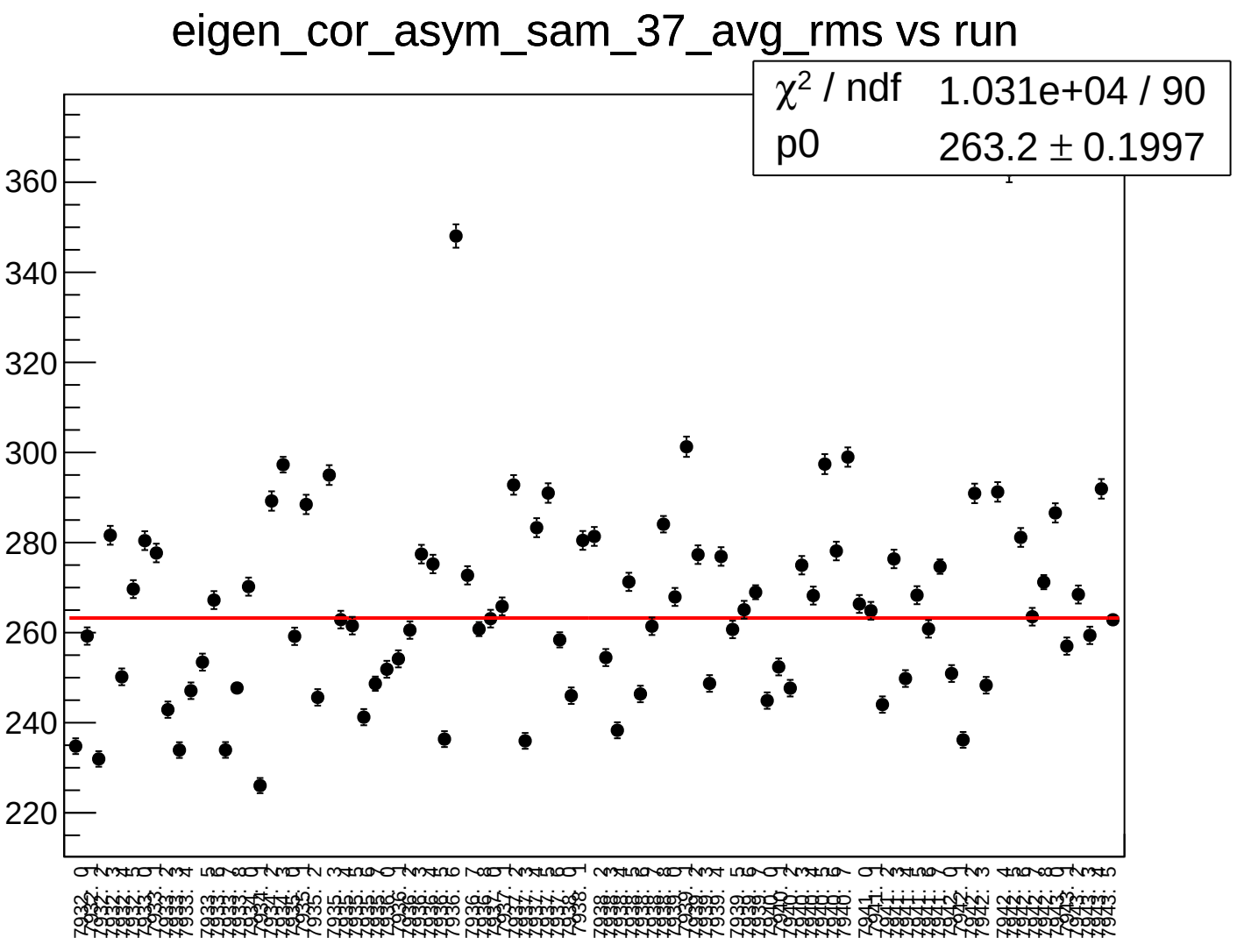

asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 112.6 / 90
p0 −838 ± 2578
100
50
0
−50
−100
pull
Entries 91
Mean −20.91
Std Dev 0
2
1
0
−1
−2

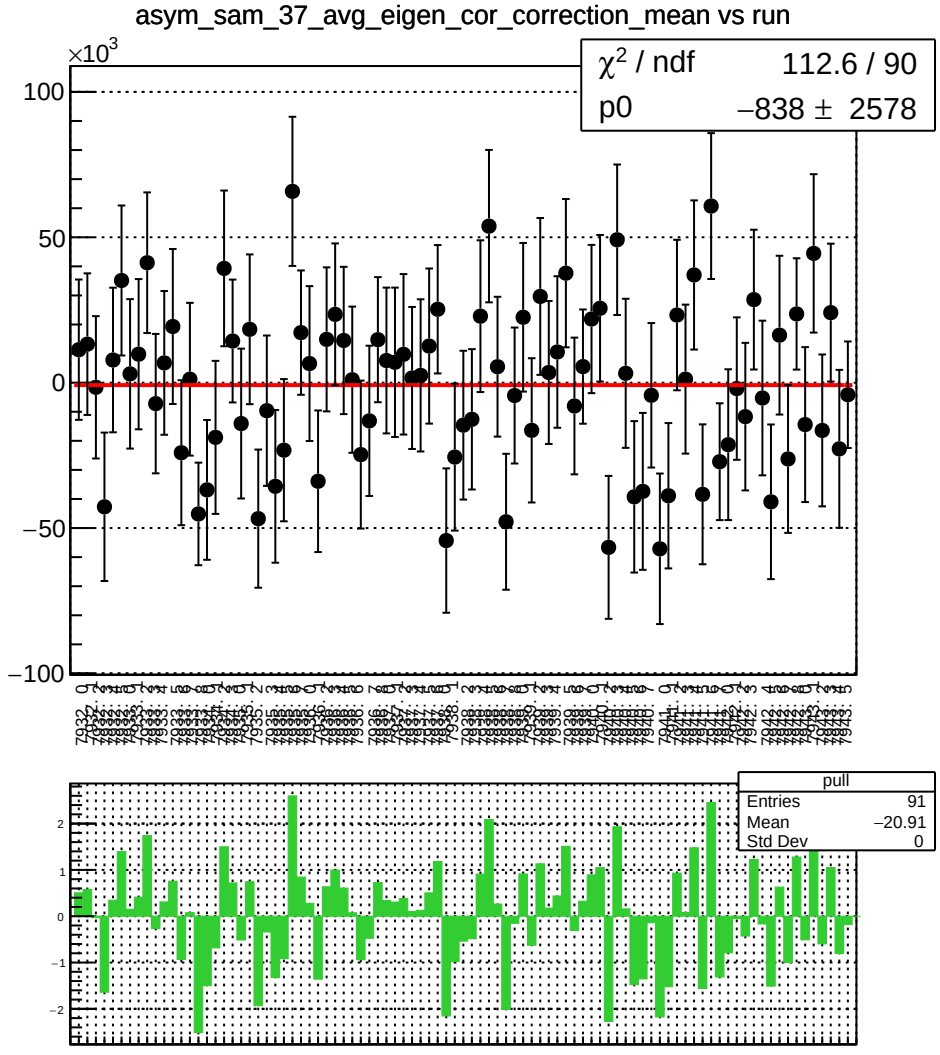

pull1D
Entries 91
Mean 0.01134
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

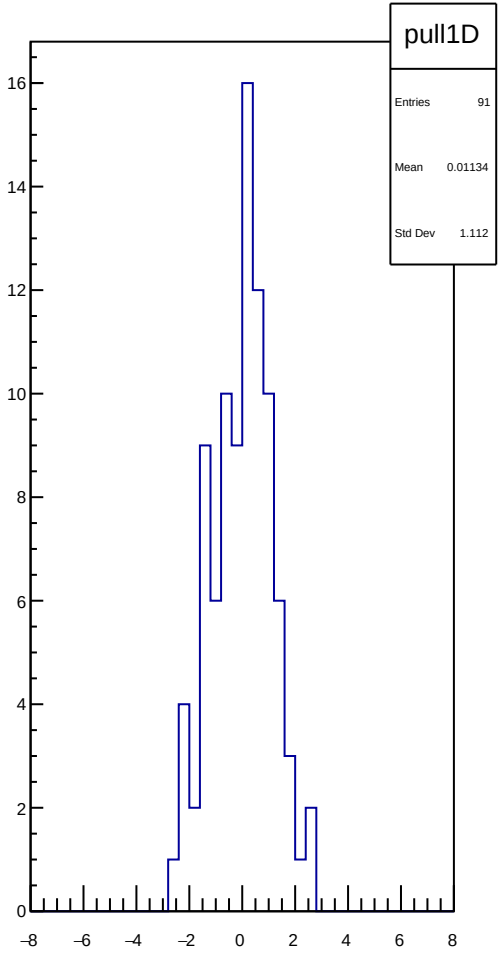

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2473 / 90
p0 2409 ± 1.823
2600
2500
2400
2300
2200

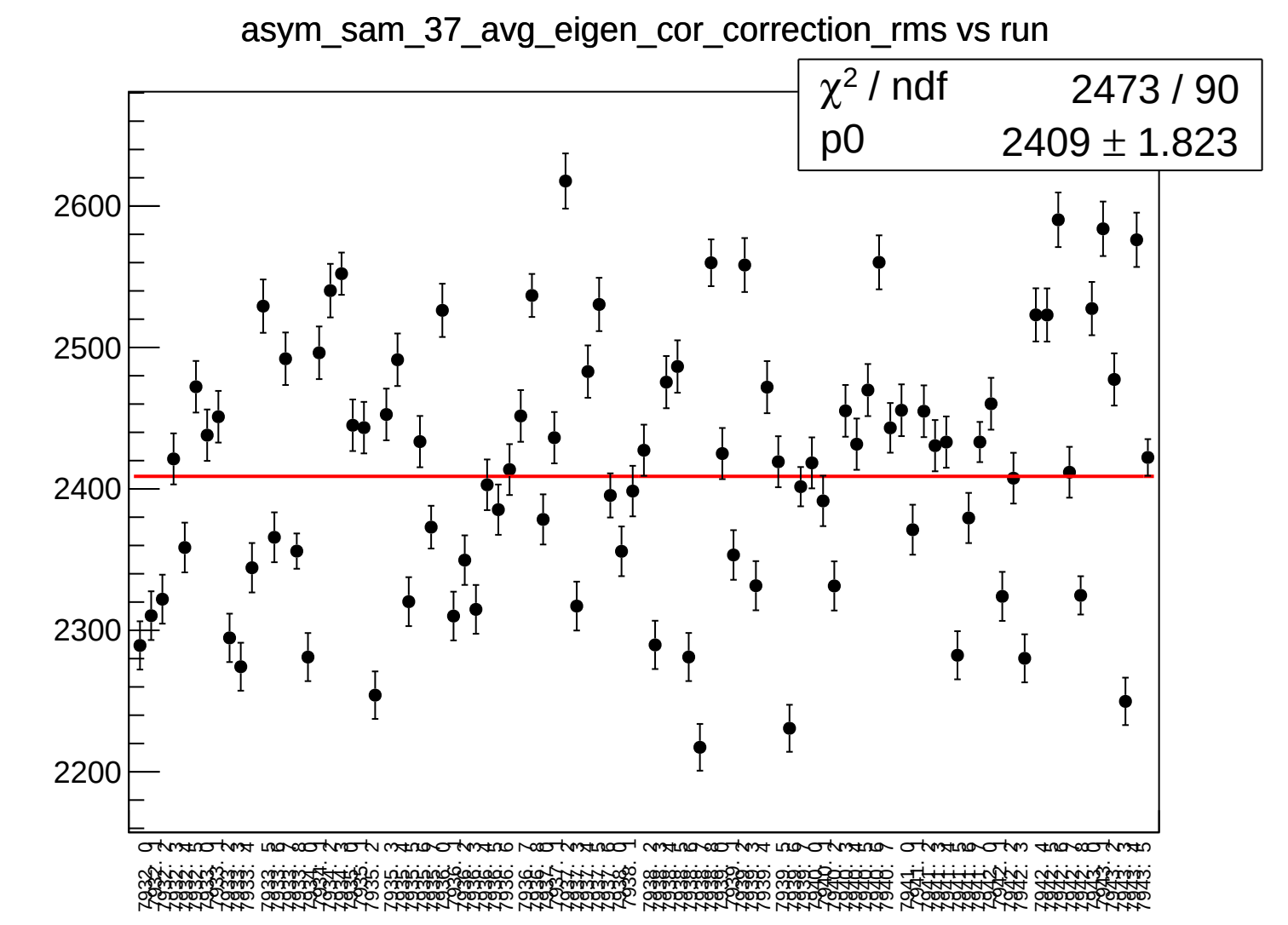

eigen_cor_asym_sam_37_avg_mean vs run
χ^2 / ndf 95.89 / 90
p0 957.6 ± 282.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 85.73
Std Dev 0
3
2
1
0
−1
−2

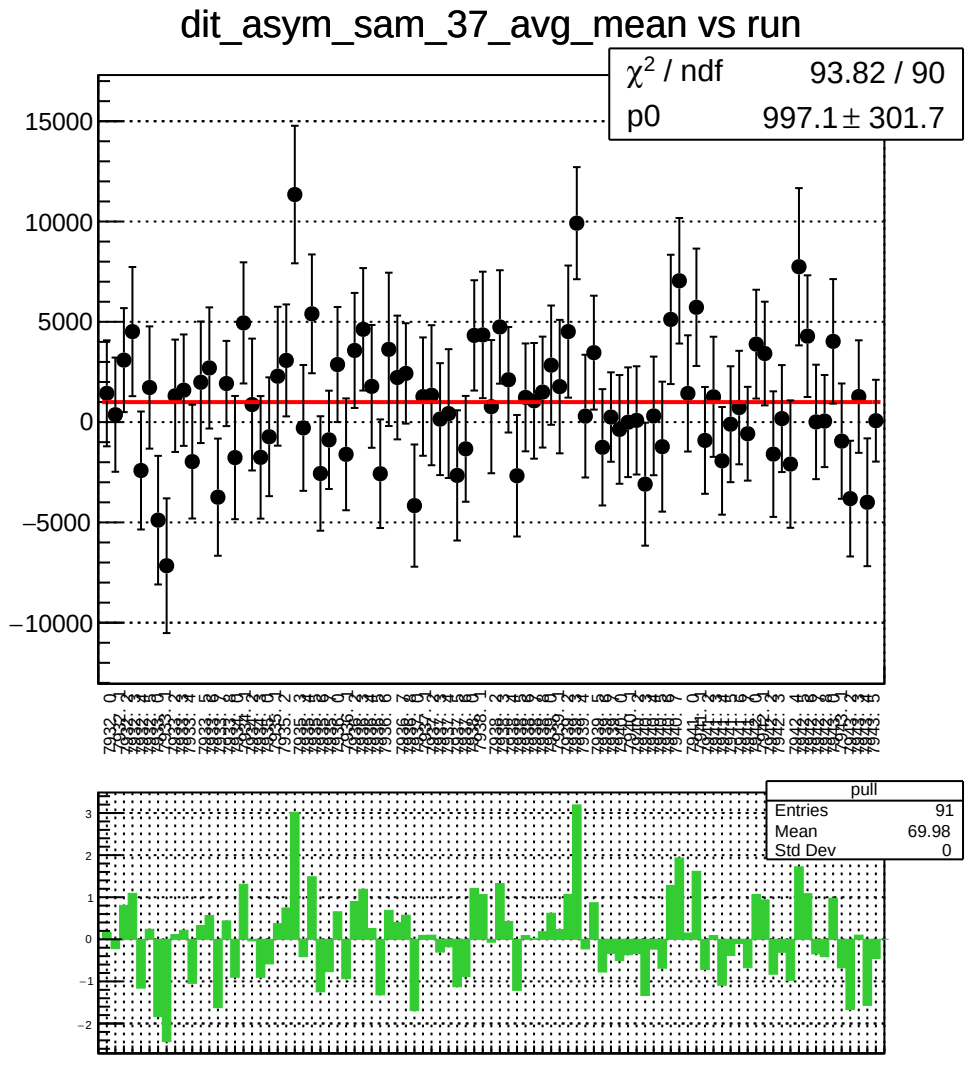

pull1D
Entries 91
Mean 0.01669
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

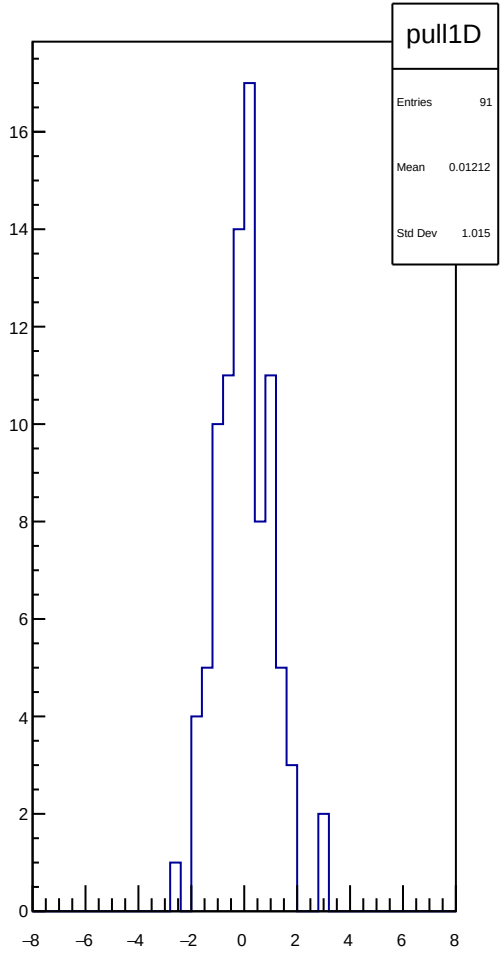

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.031e+04 / 90
p0 263.2 ± 0.1997
360
340
320
300
280
260
240
220

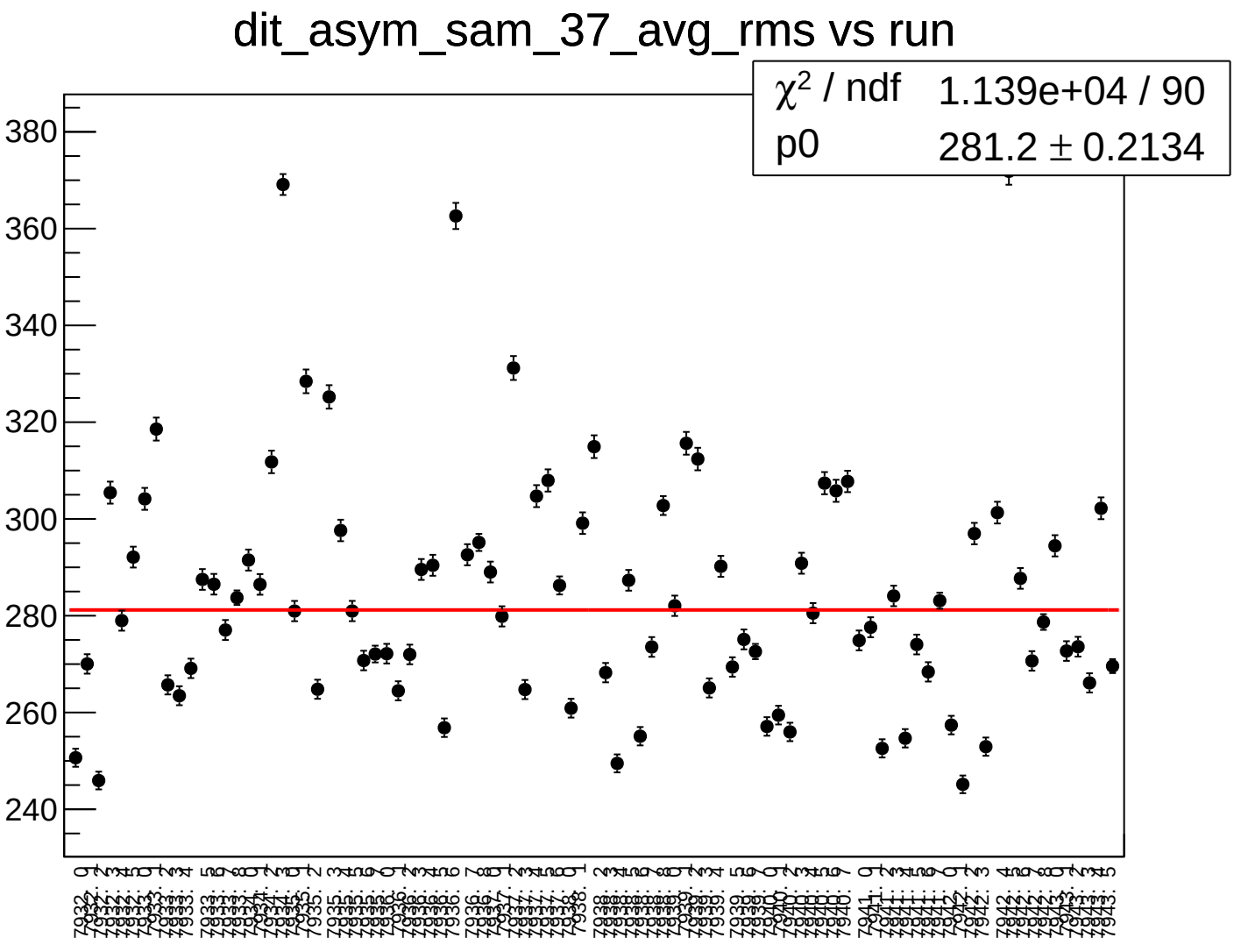

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 112.6 / 90
p0 −838 ± 2578
100
50
0
−50
−100
pull
Entries 91
Mean −20.91
Std Dev 0
2
1
0
−1
−2

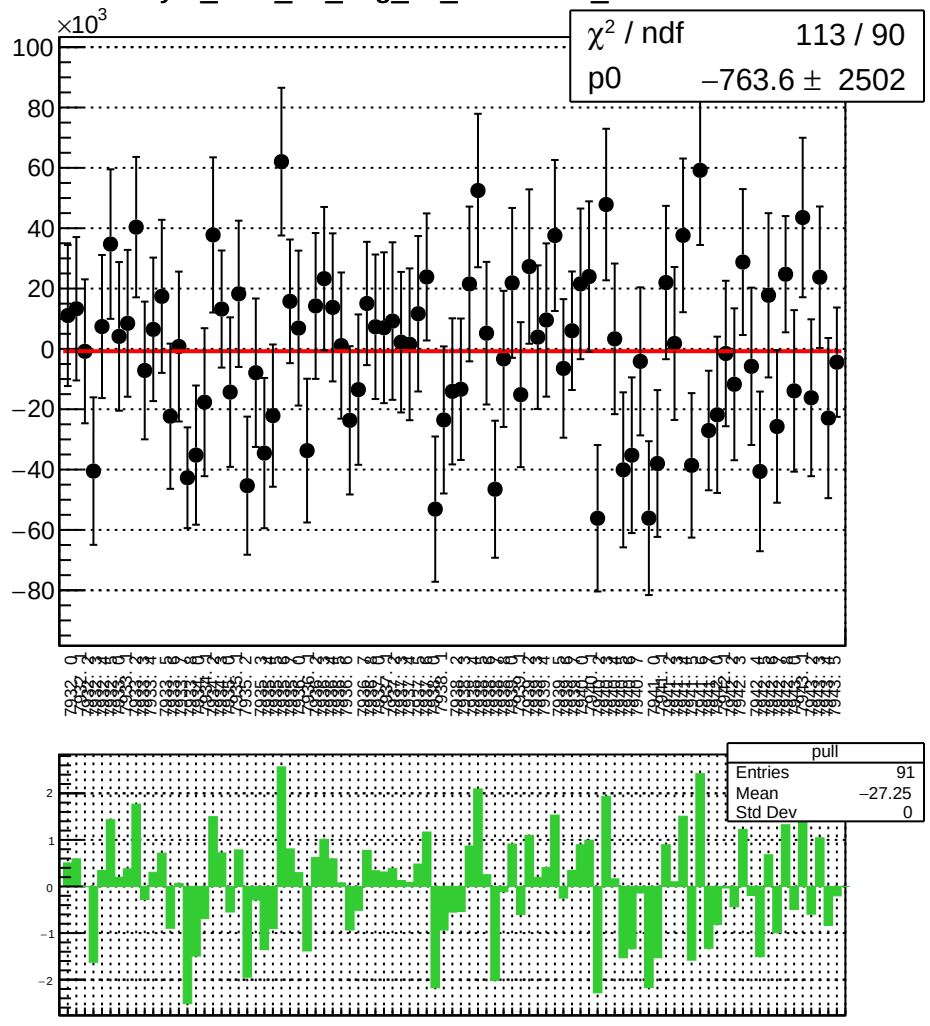

pull1D
Entries 91
Mean 0.01134
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

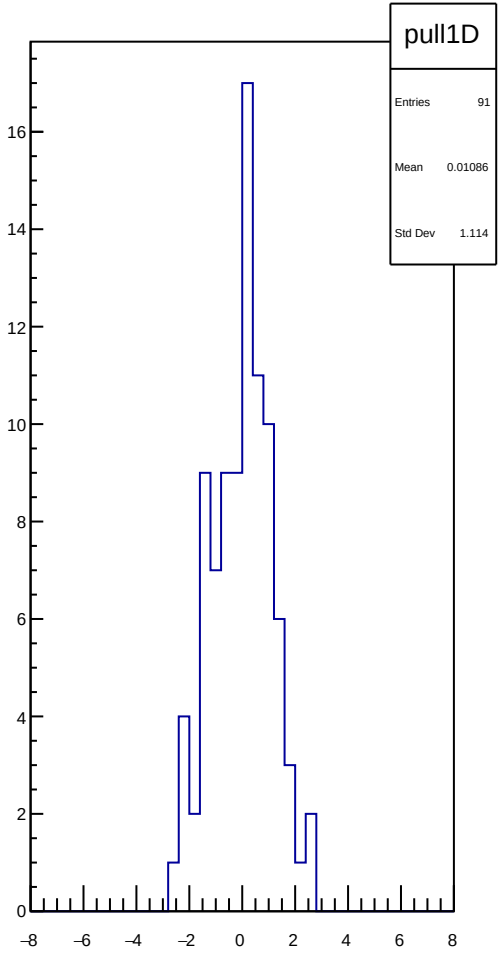

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2473 / 90
p0 2409 ± 1.823
2600
2500
2400
2300
2200

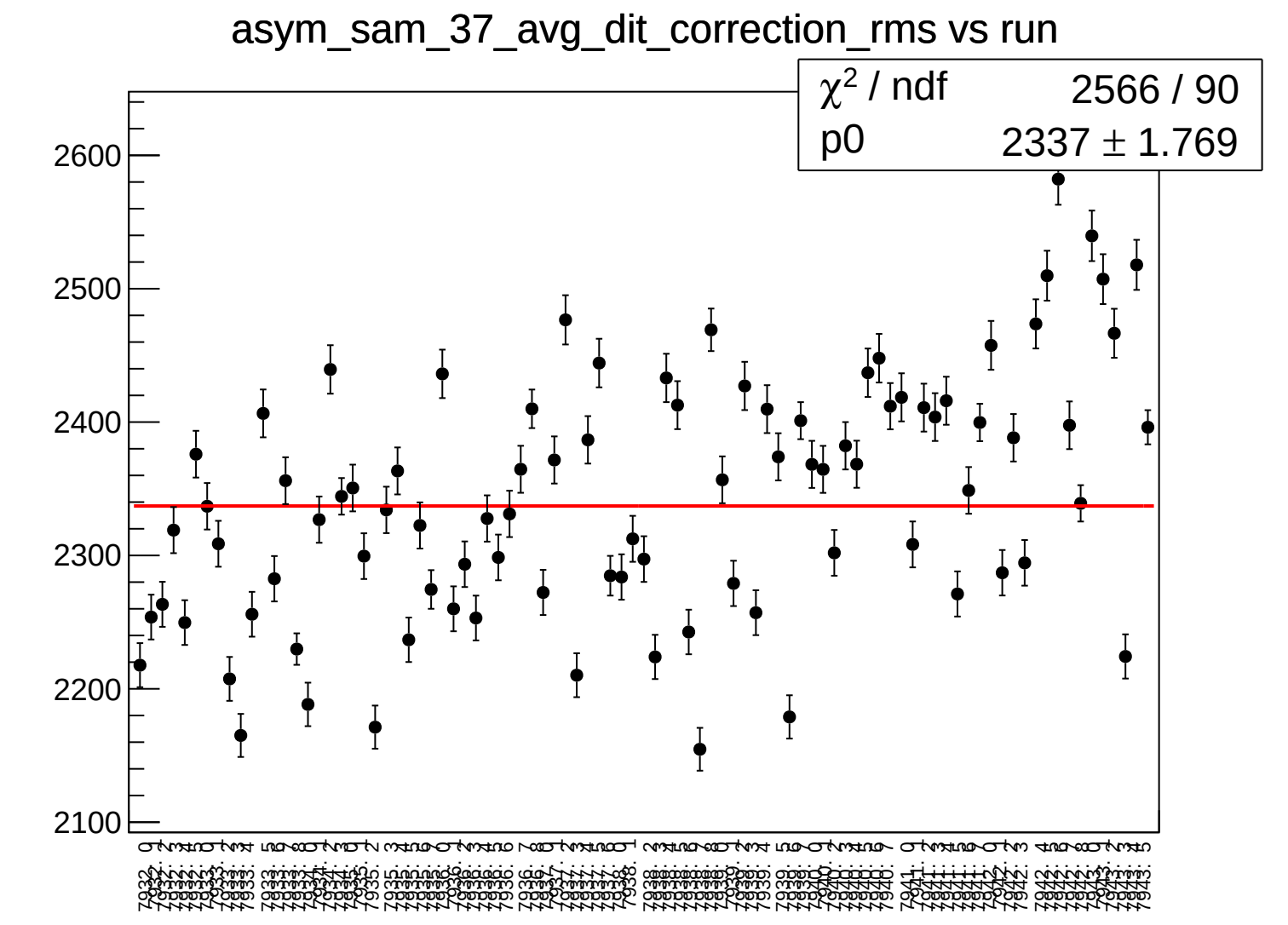

dit_asym_sam_37_avg_mean vs run
χ² / ndf 93.82 / 90
p0 997.1 ± 301.7
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 69.98
Std Dev 0
3
2
1
0
−1
−2

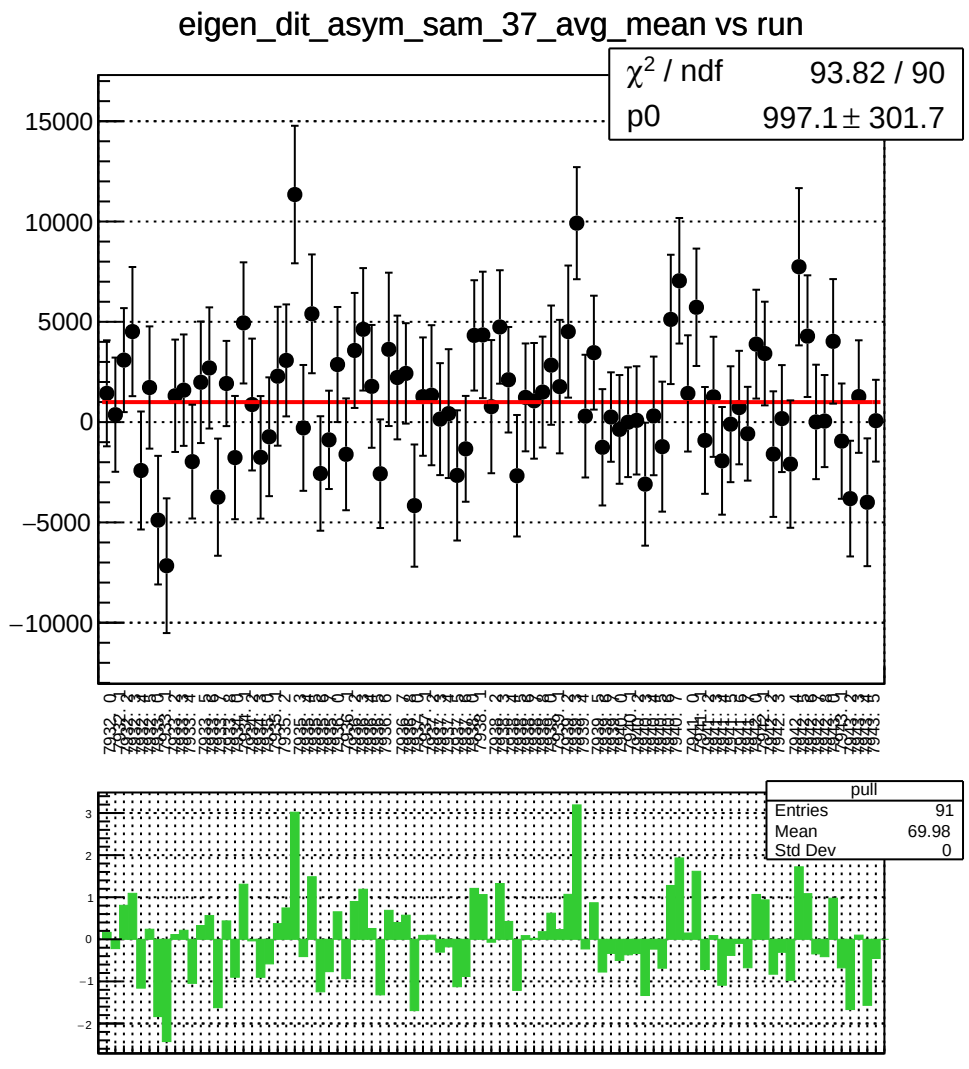

pull1D
Entries 91
Mean 0.01212
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

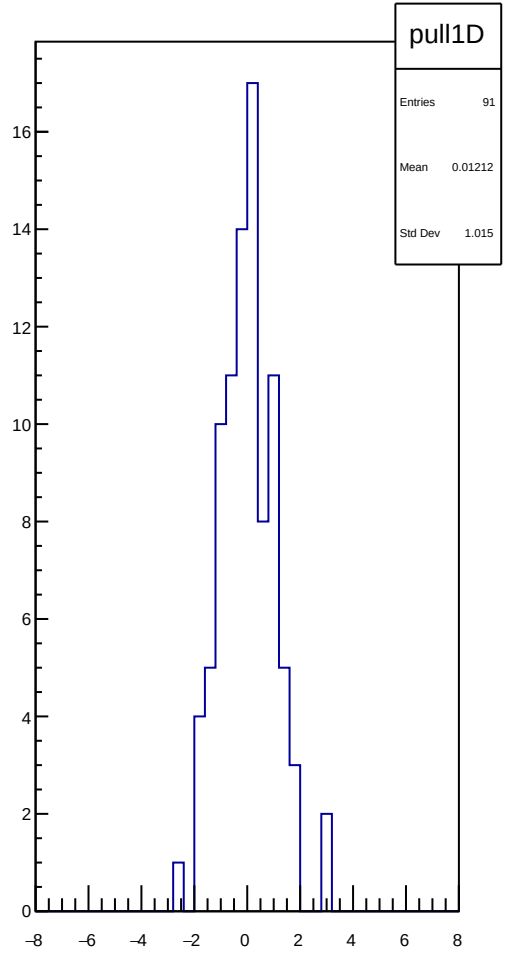

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.139e+04 / 90
p0 281.2 ± 0.2134
380
360
340
320
300
280
260
240

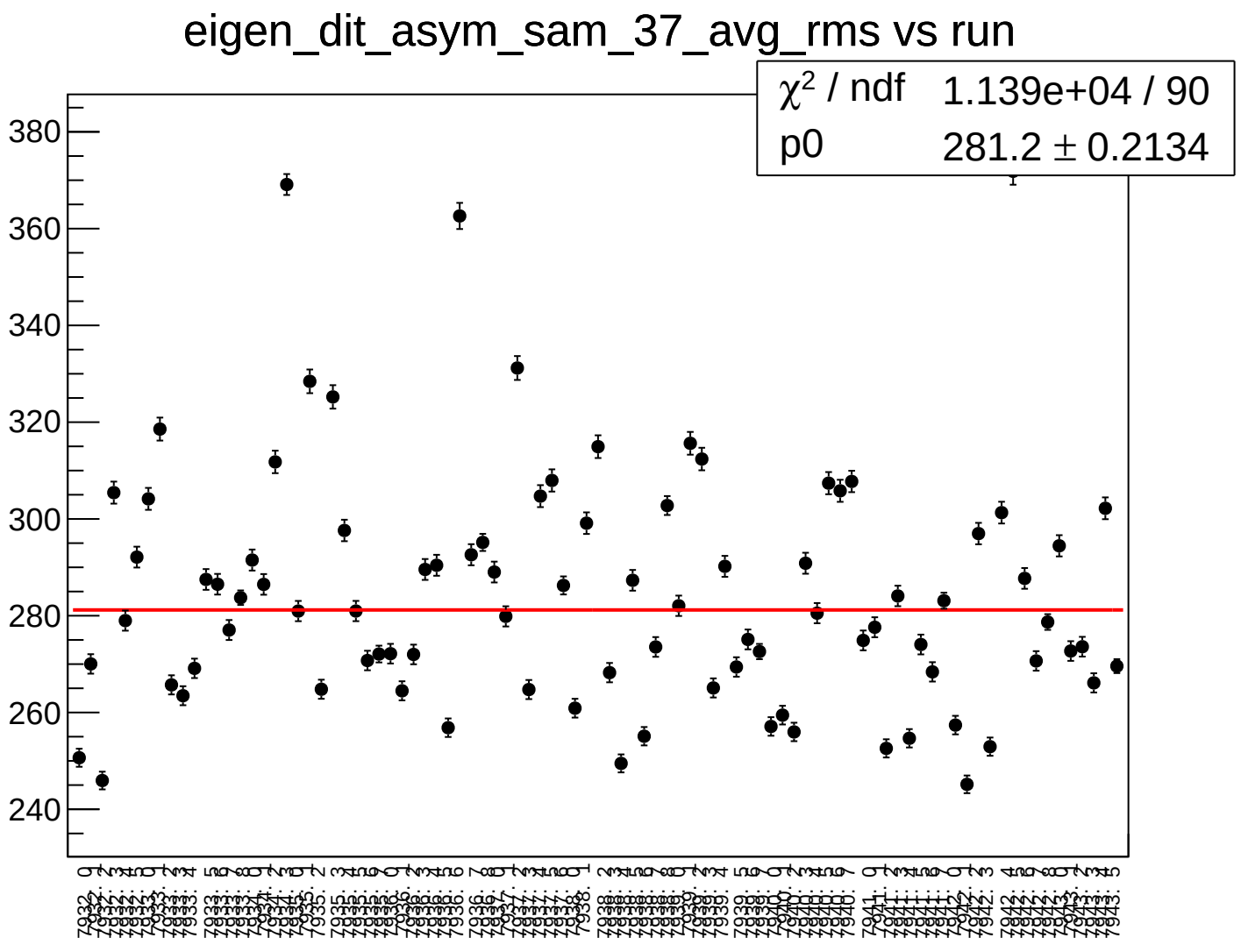

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 113 / 90
p0 −763.6 ± 2502
pull
Entries 91
Mean −27.25
Std Dev 0

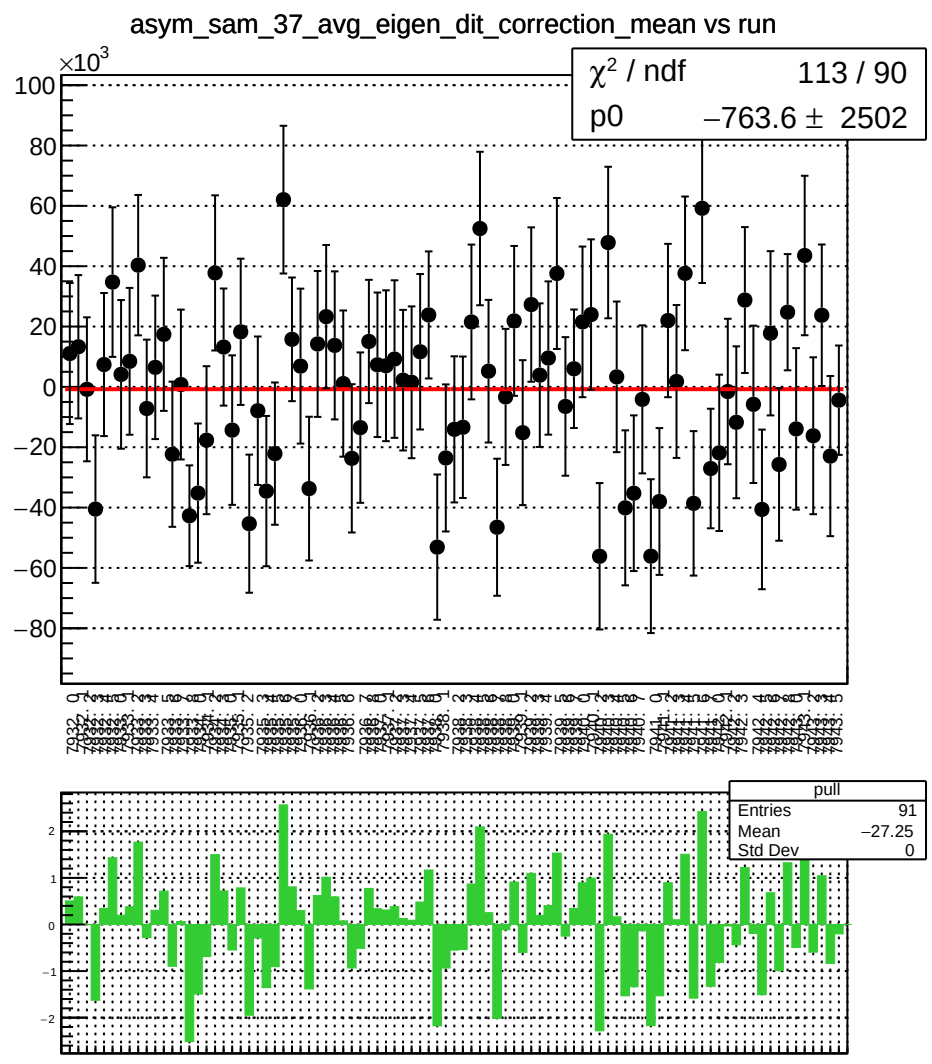

pull1D
Entries 91
Mean 0.01086
Std Dev 1.114

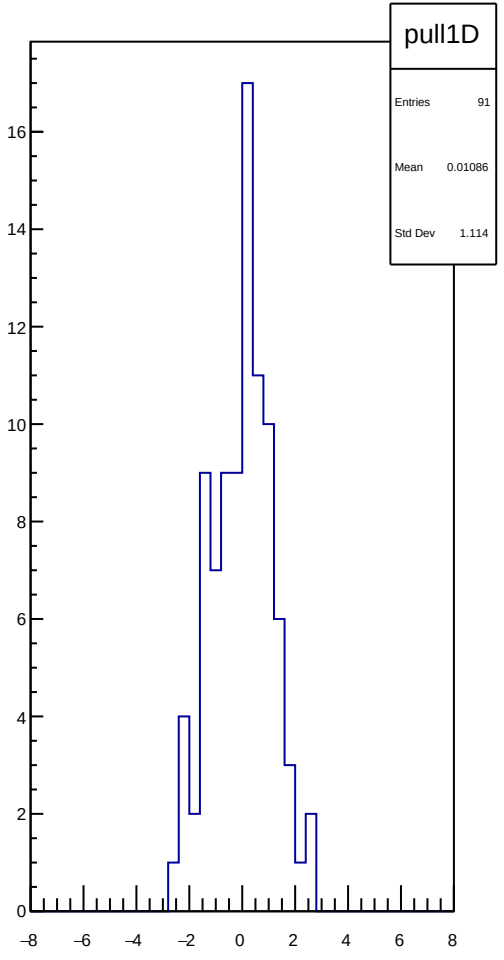

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2566 / 90
p0 2337 ± 1.769
2600
2500
2400
2300
2200
2100

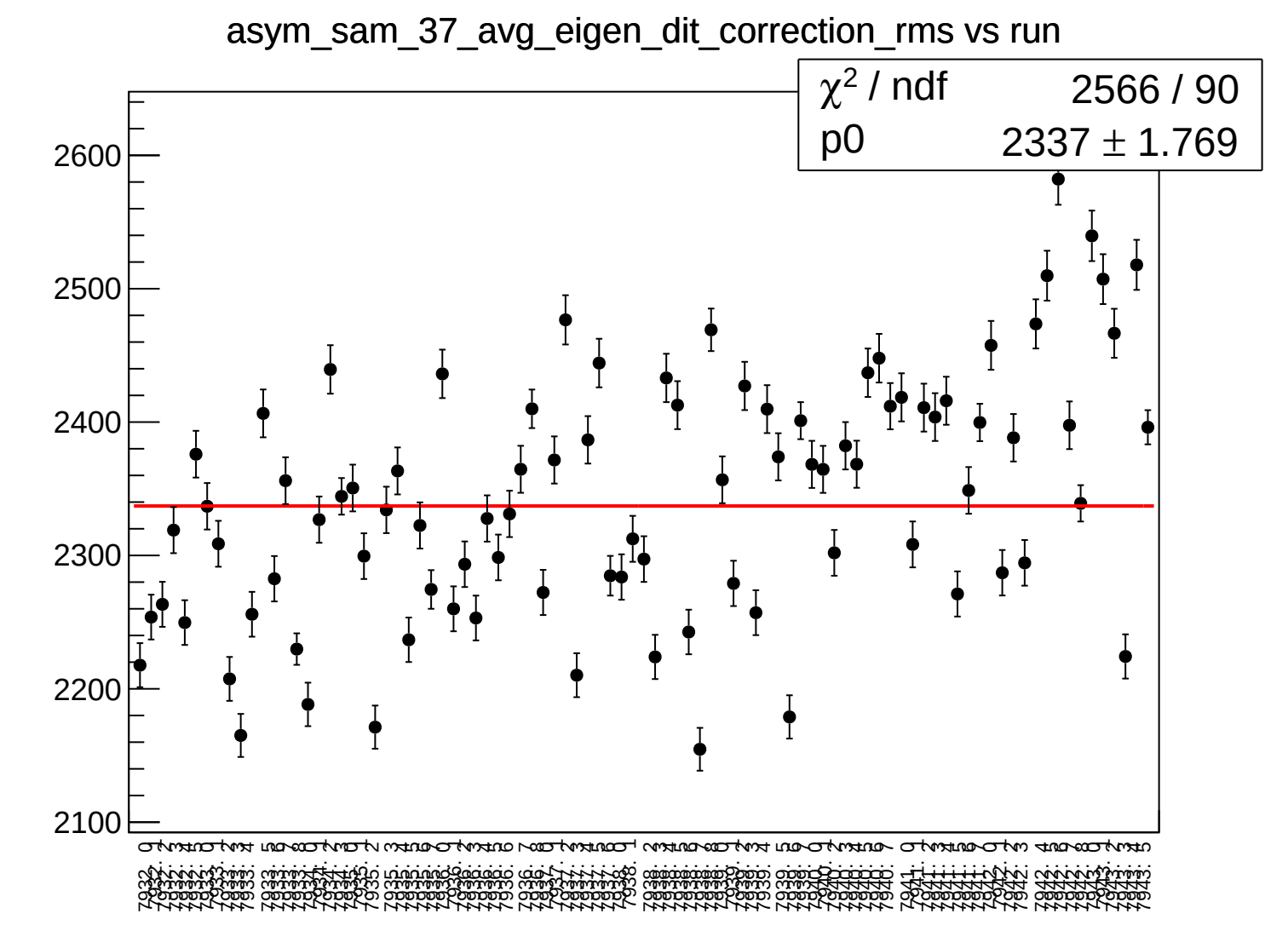

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 93.82 / 90
p0 997.1 ± 301.7
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 69.98
Std Dev 0
3
2
1
0
−1
−2

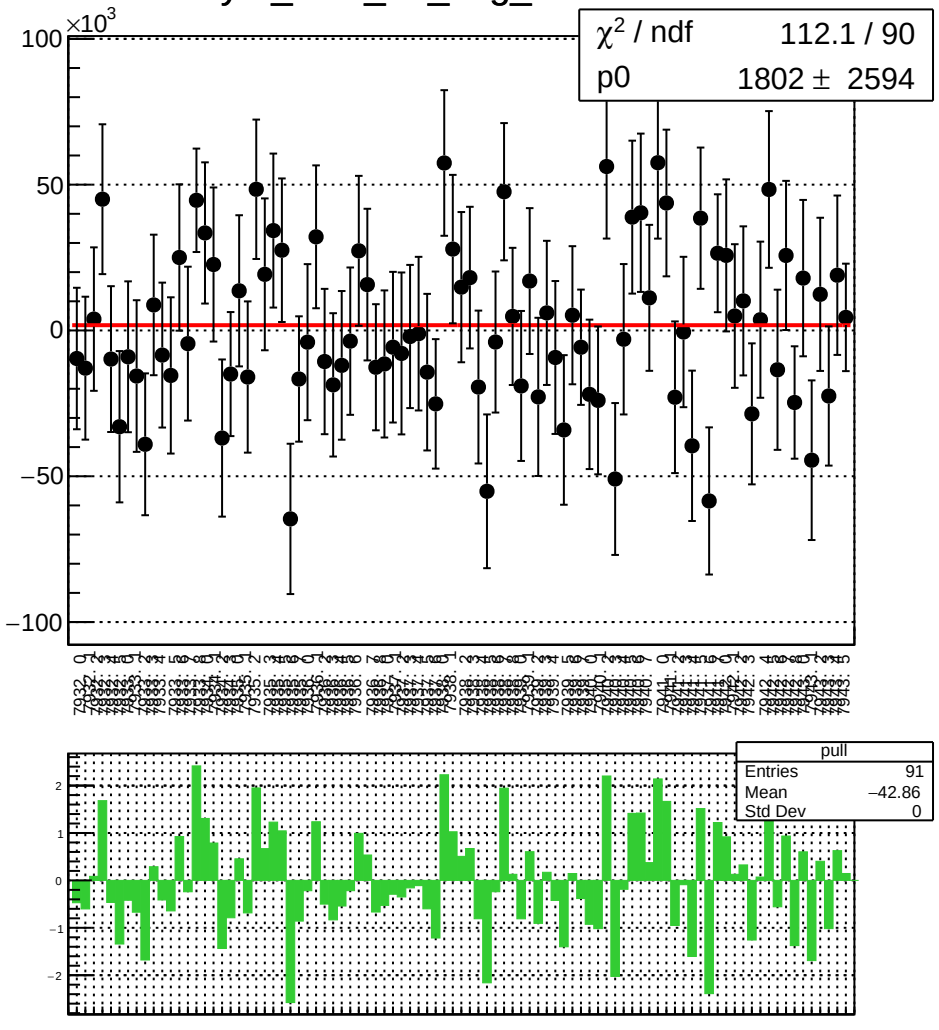

pull1D
Entries 91
Mean 0.01212
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

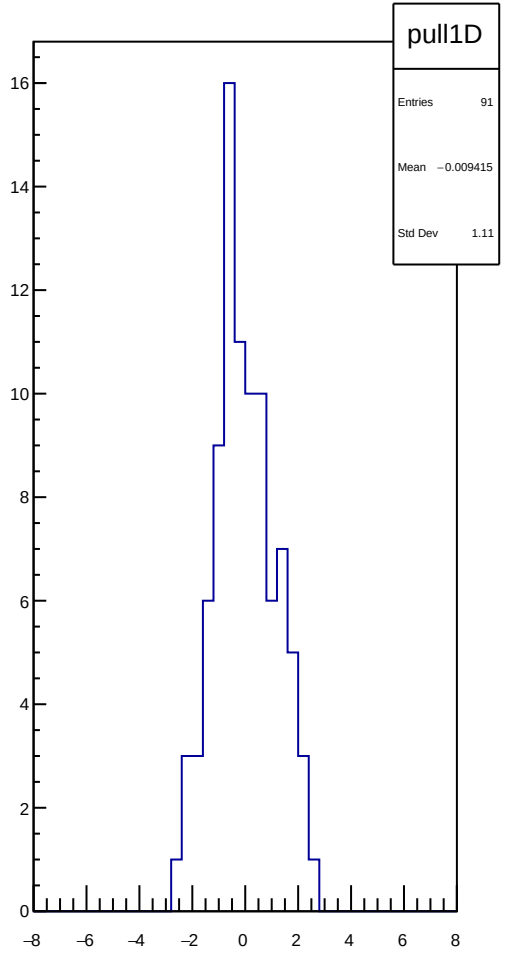

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.139e+04 / 90
p0 281.2 ± 0.2134
380
360
340
320
300
280
260
240

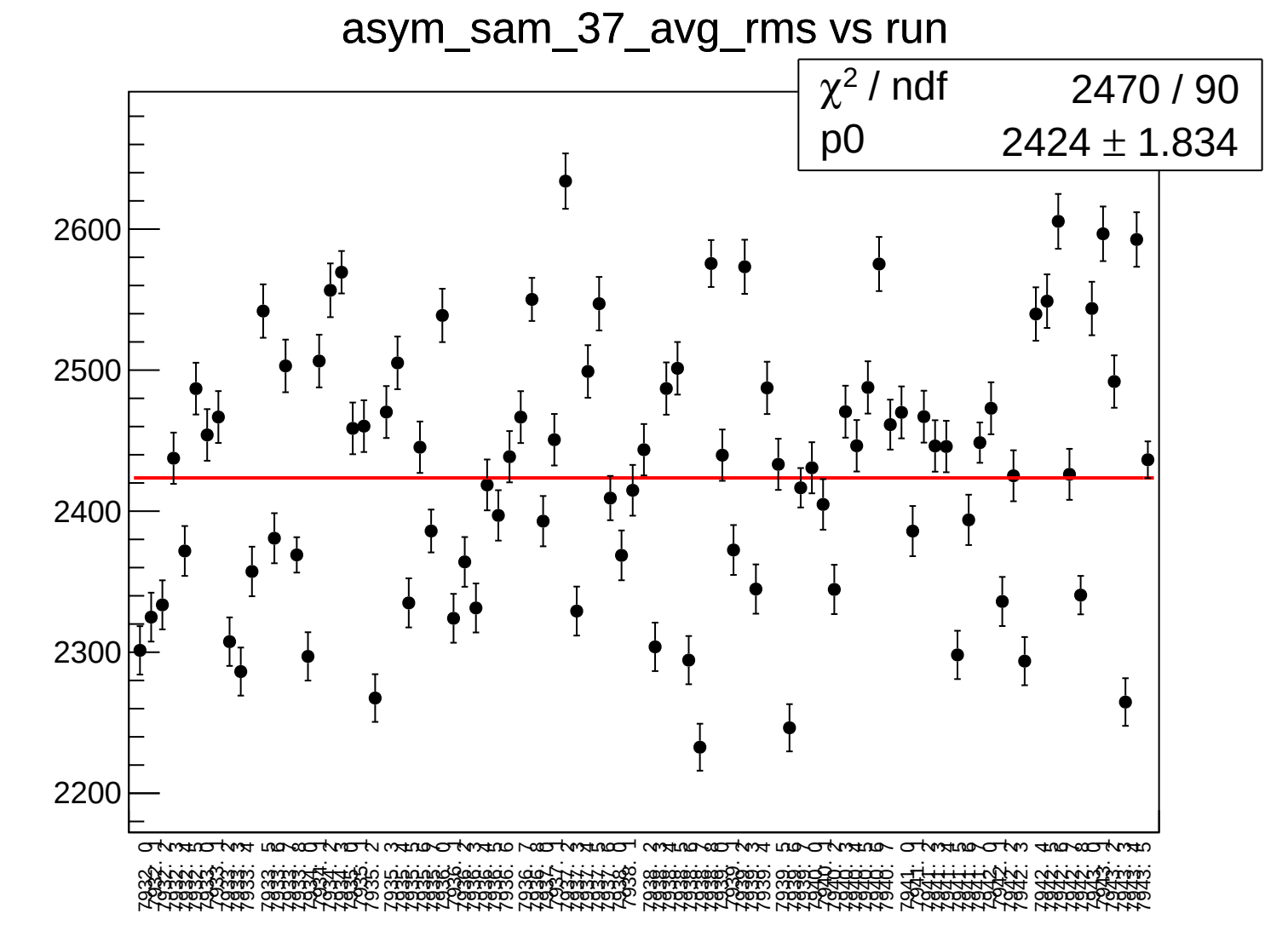

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113 / 90
p0 −763.6 ± 2502
pull
Entries 91
Mean −27.25
Std Dev 0

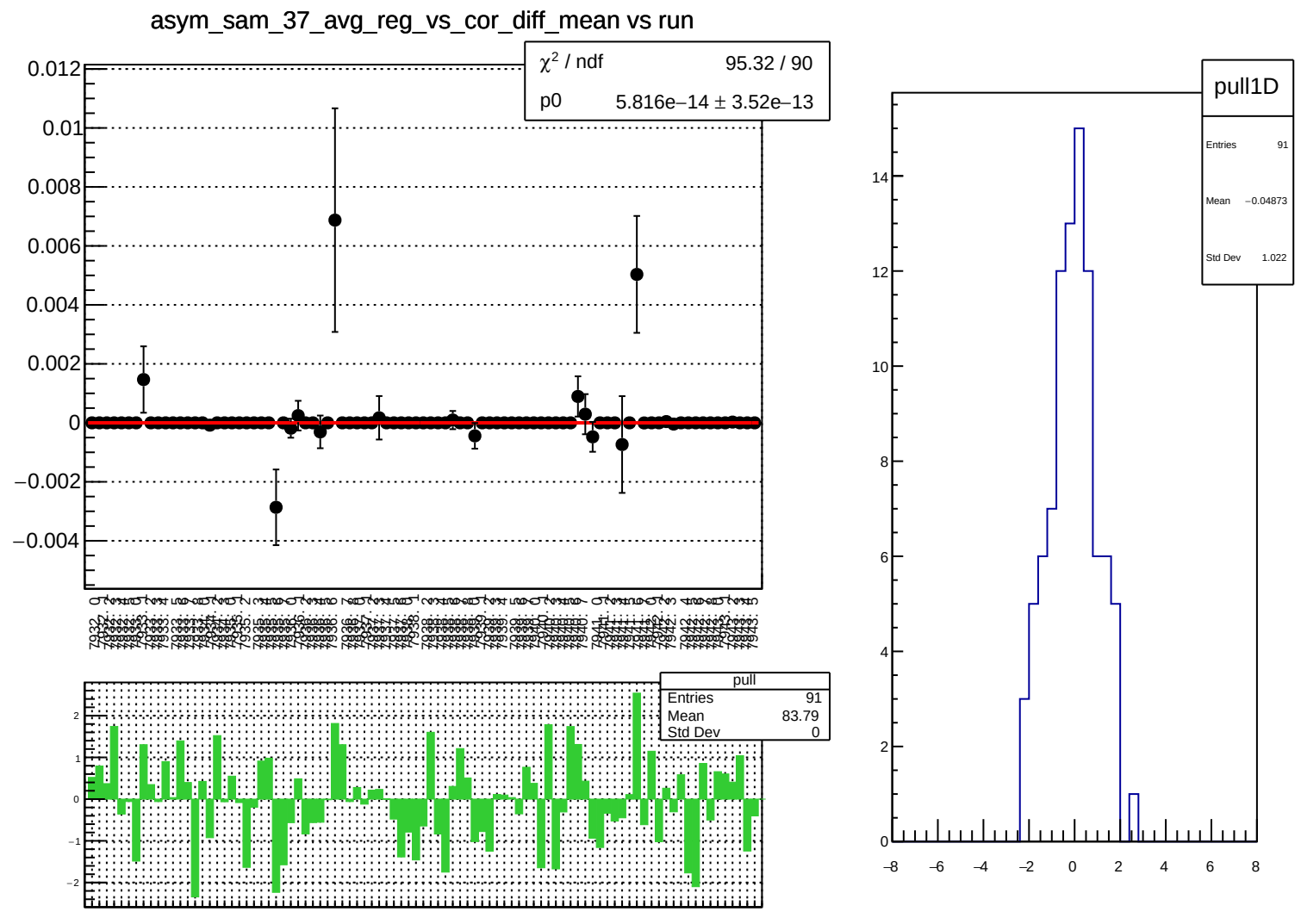

pull1D
Entries 91
Mean 0.01086
Std Dev 1.114

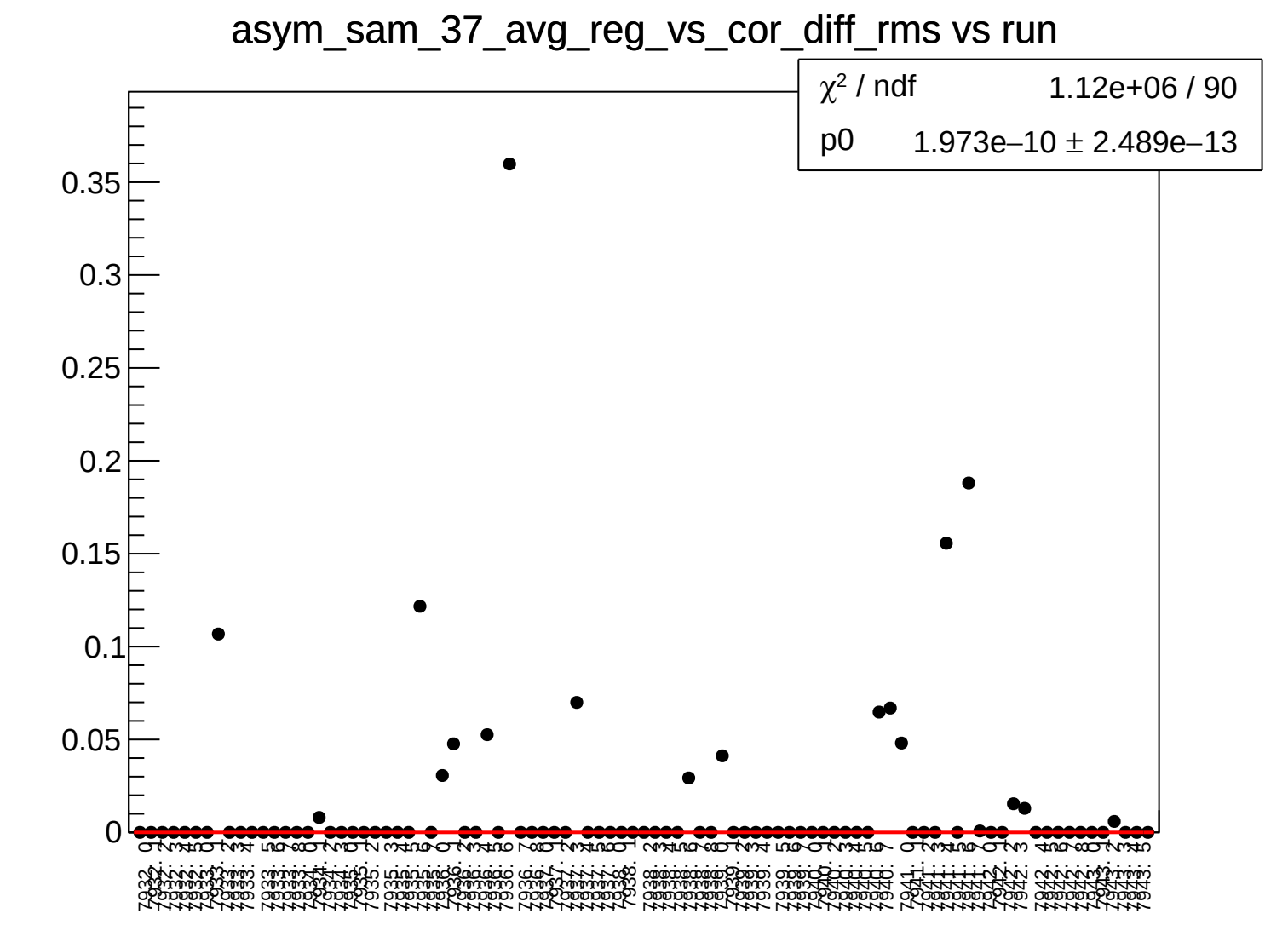

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2566 / 90
p0 2337 ± 1.769
2600
2500
2400
2300
2200
2100

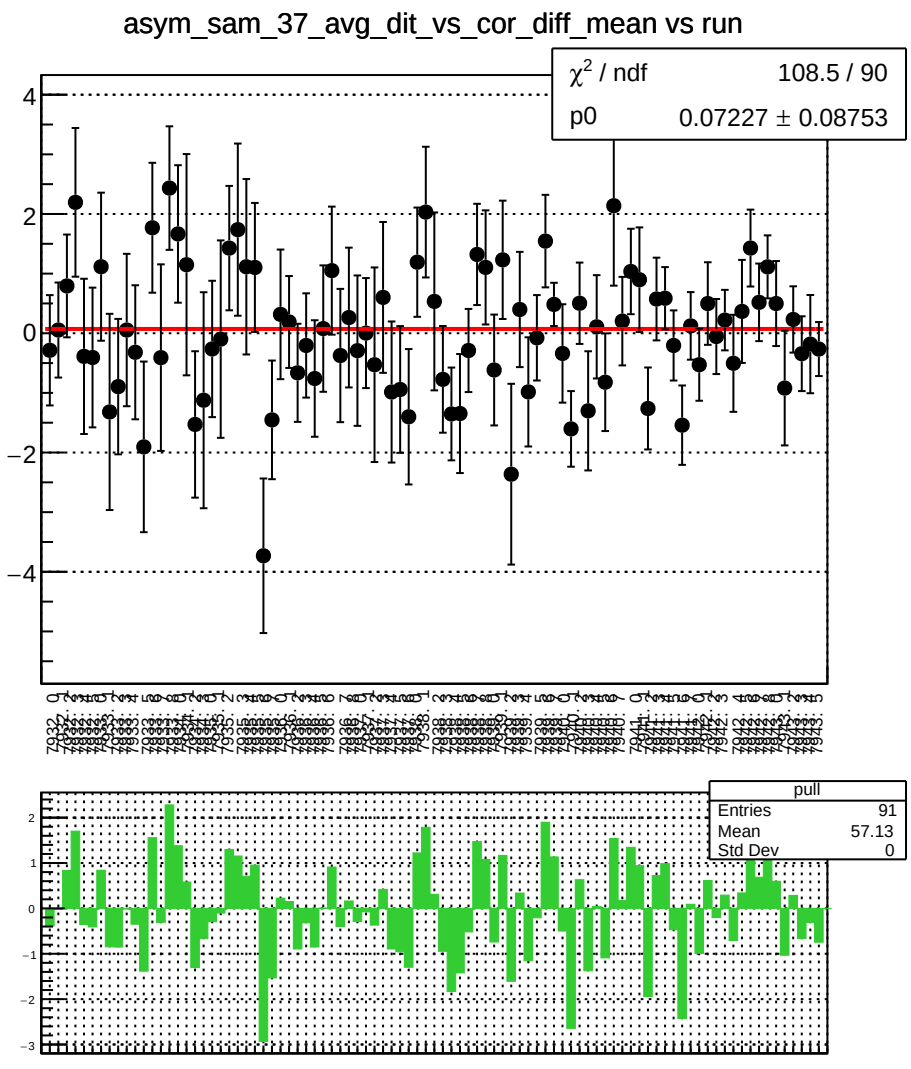

asym_sam_37_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 112.1 / 90
p0 1802 ± 2594
pull
Entries 91
Mean −42.86
Std Dev 0
2
1
0
−1
−2

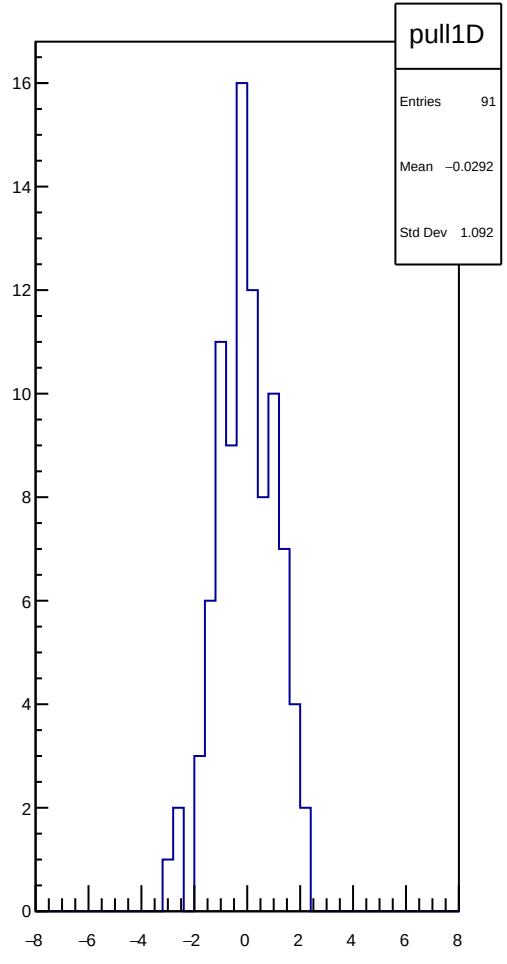

pull1D
Entries 91
Mean −0.009415
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

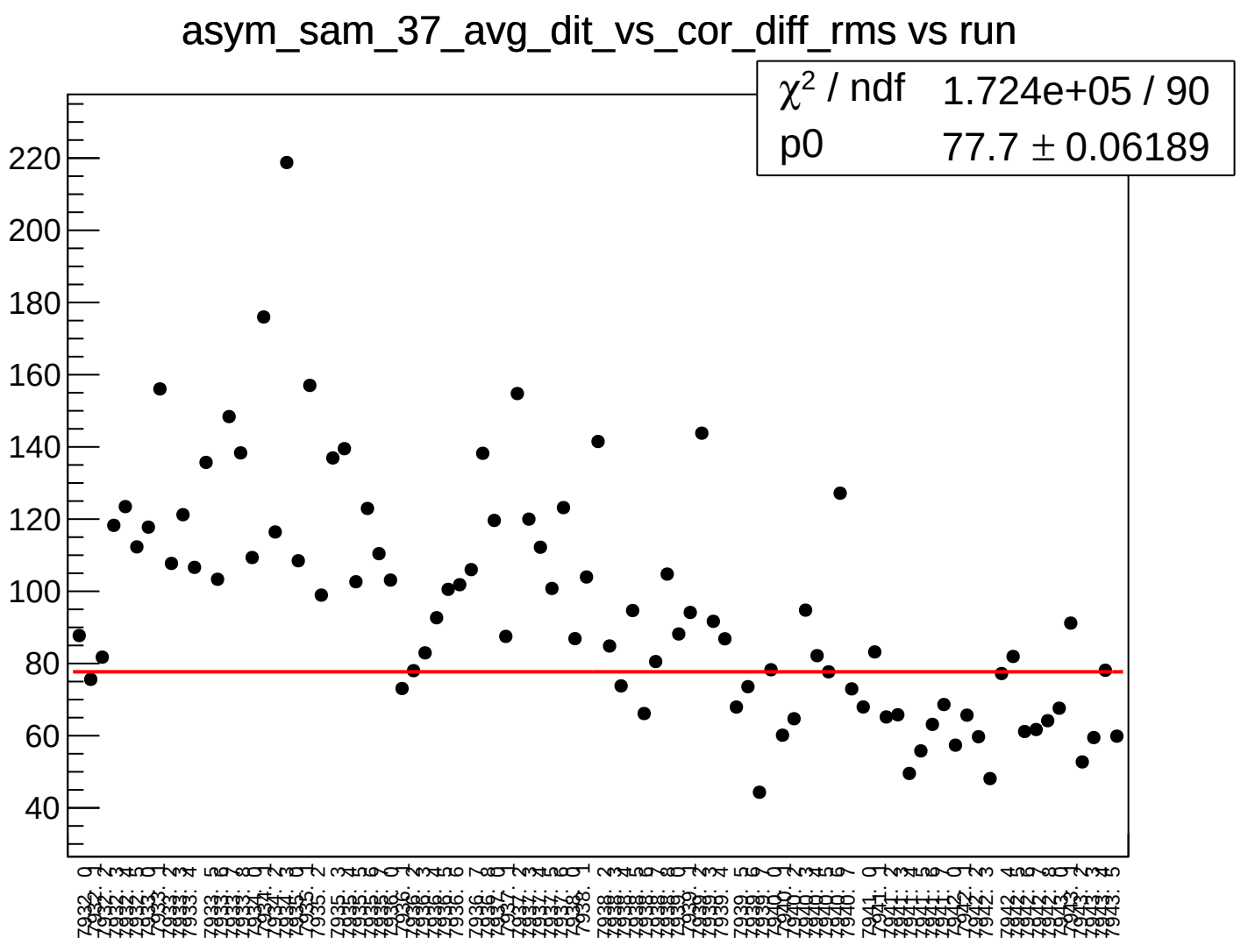

asym_sam_37_avg_rms vs run
χ² / ndf 2470 / 90
p0 2424 ± 1.834
2600
2500
2400
2300
2200

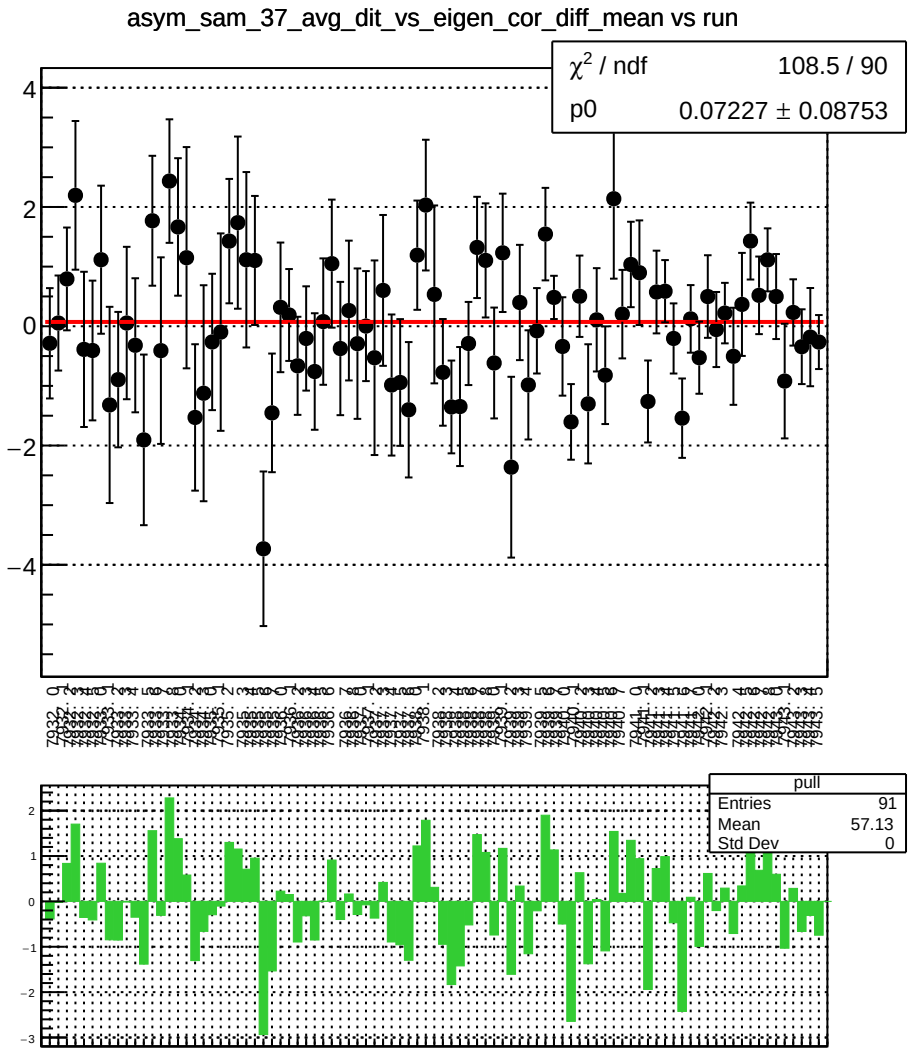

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.32 / 90
p0 5.816e−14 ± 3.52e−13
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 91
Mean 83.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.04873
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

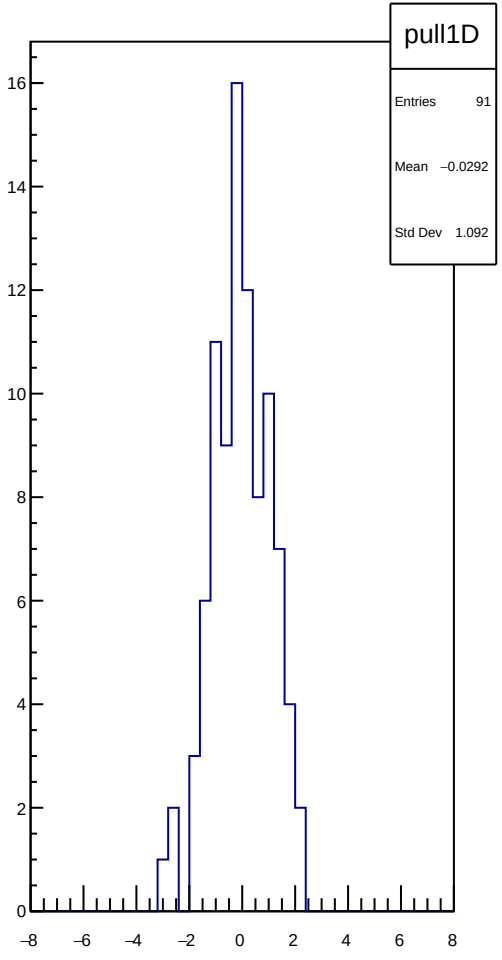

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.12e+06 / 90
p0 1.973e−10 ± 2.489e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

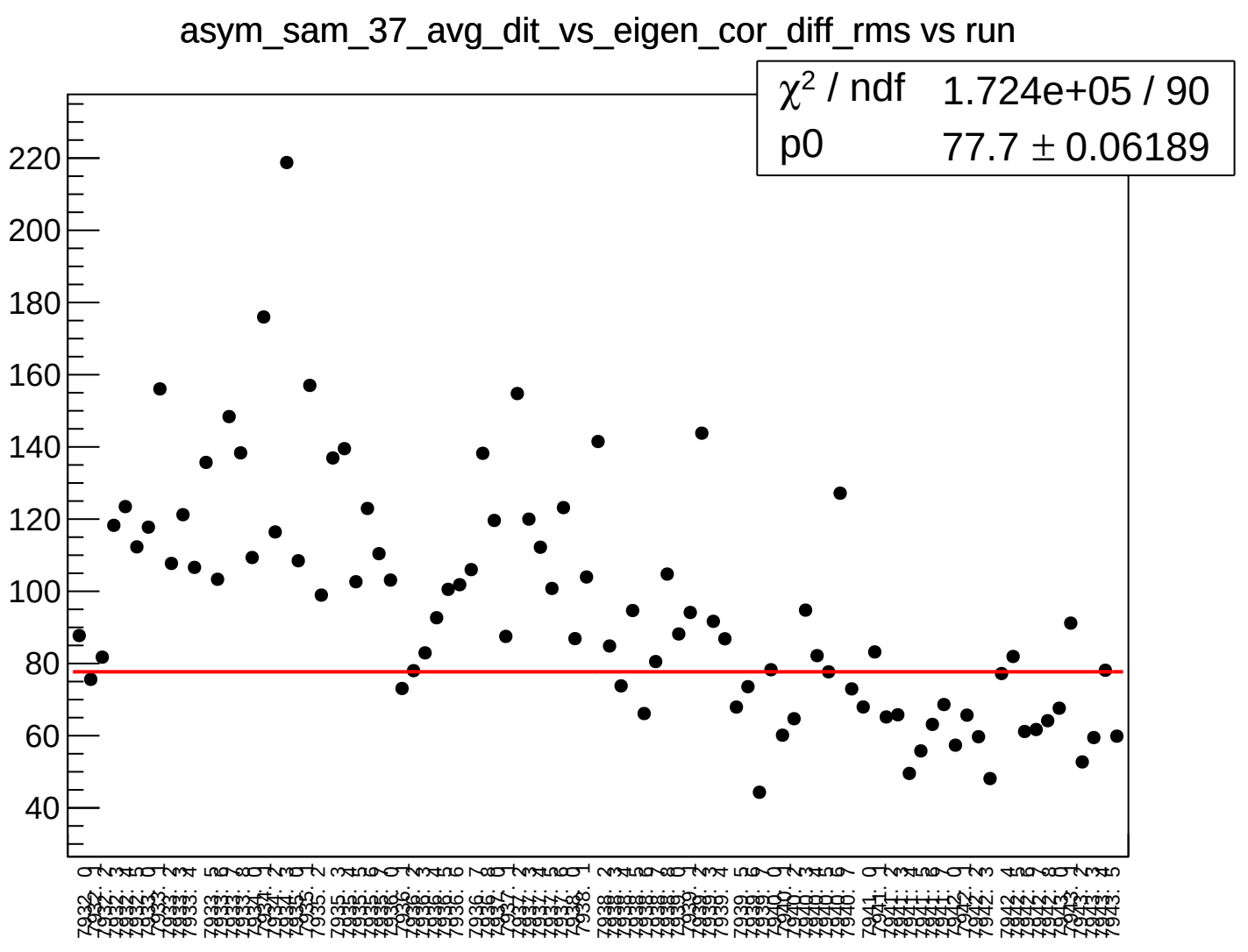

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.5 / 90
p0 0.07227 ± 0.08753
pull
Entries 91
Mean 57.13
Std Dev 0

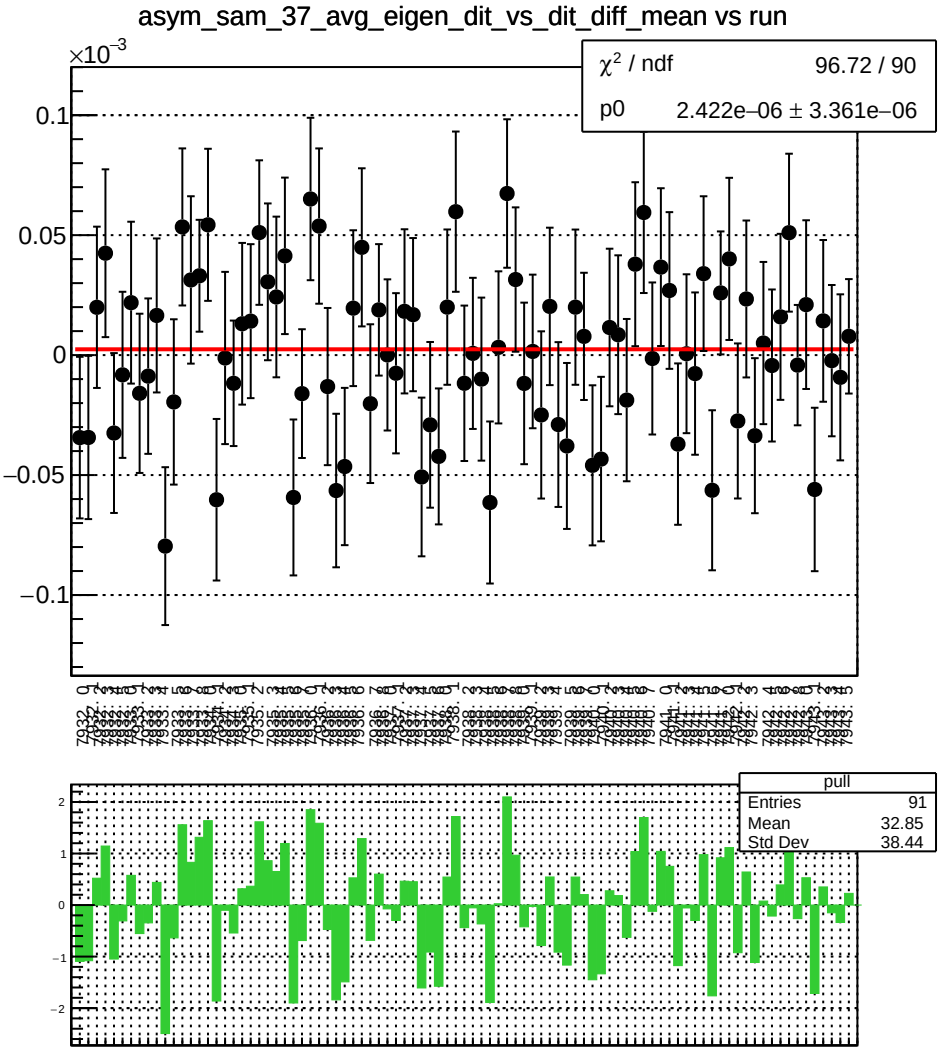

pull1D
Entries 91
Mean −0.0292
Std Dev 1.092

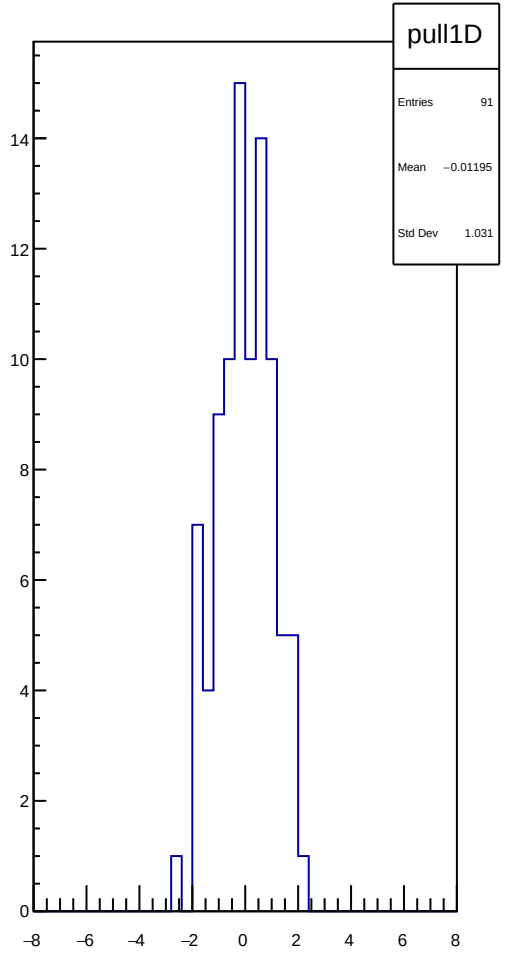

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.724e+05 / 90
p0 77.7 ± 0.06189
220
200
180
160
140
120
100
80
60
40

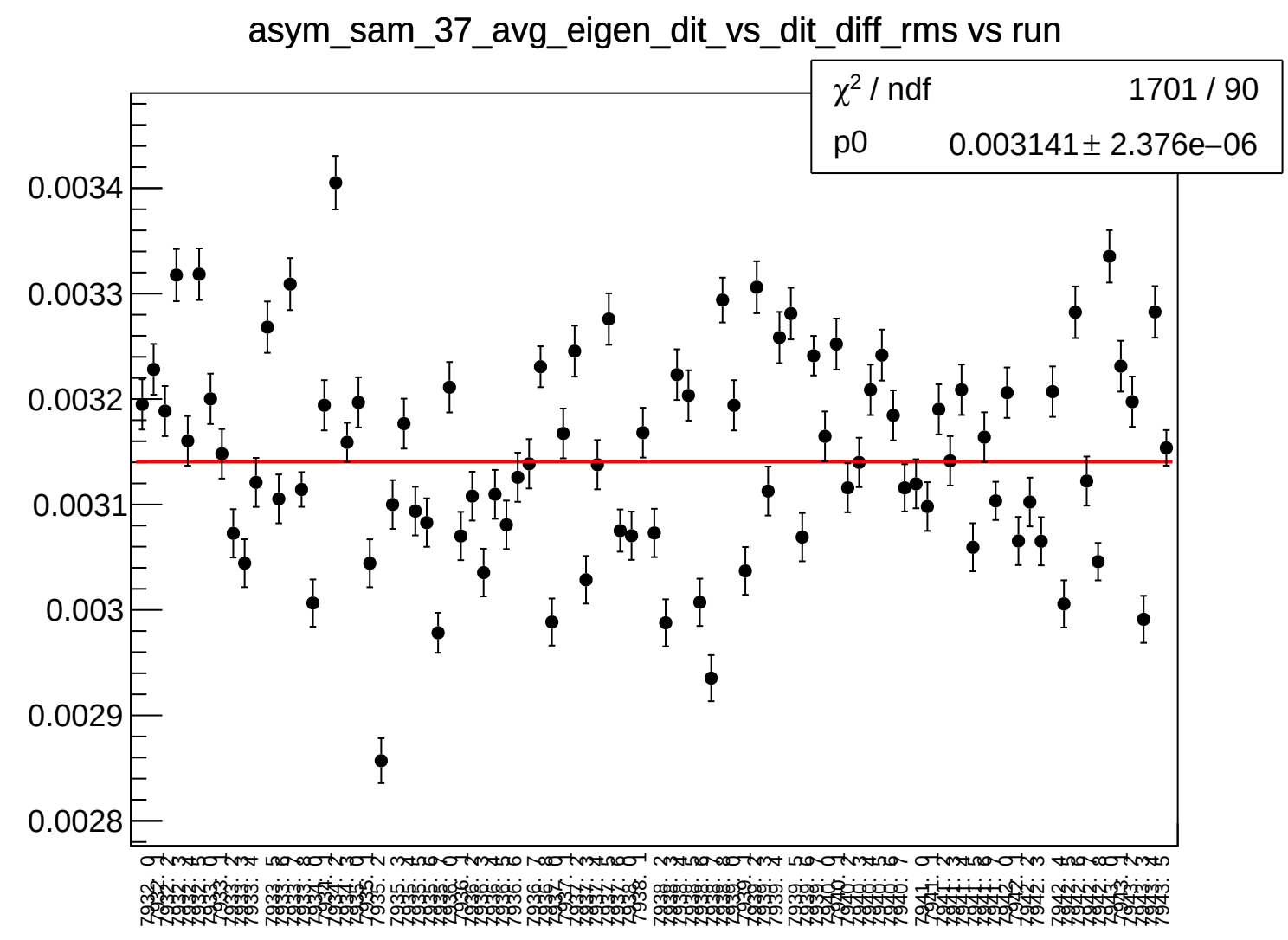

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.5 / 90
p0 0.07227 ± 0.08753
pull
Entries 91
Mean 57.13
Std Dev 0

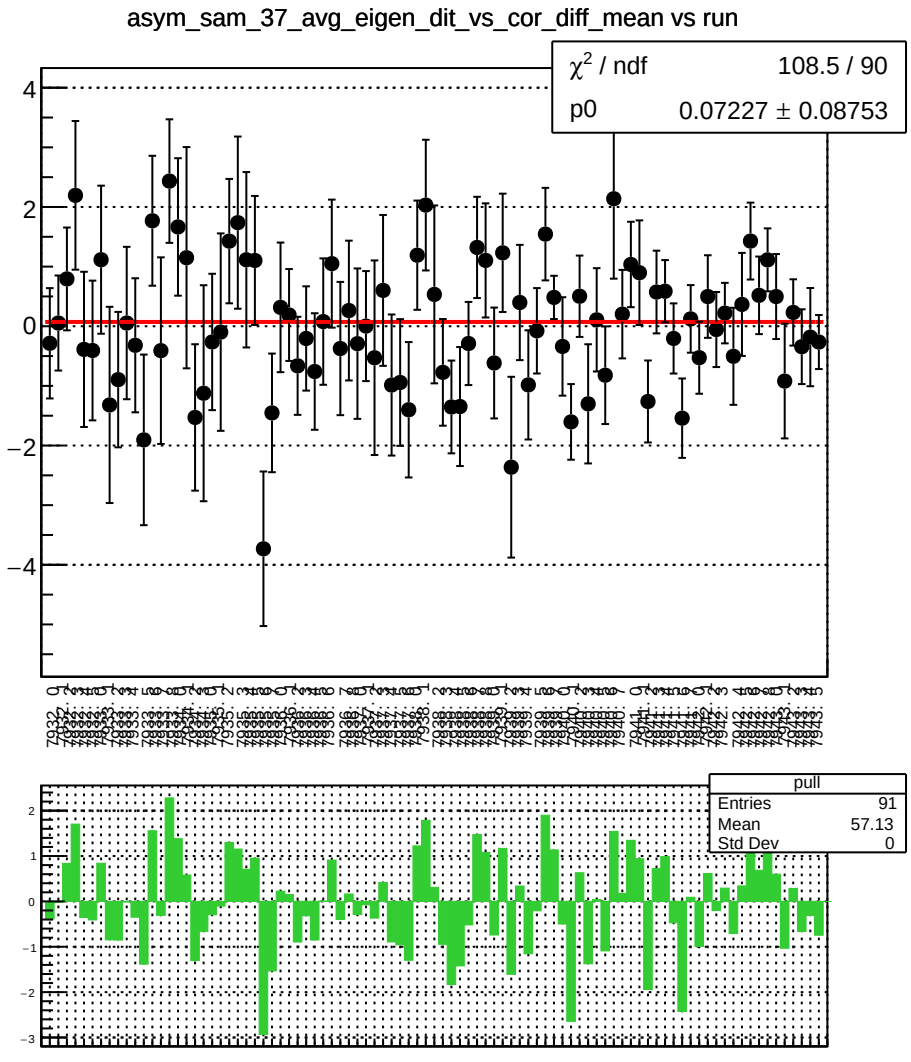

pull1D
Entries 91
Mean −0.0292
Std Dev 1.092

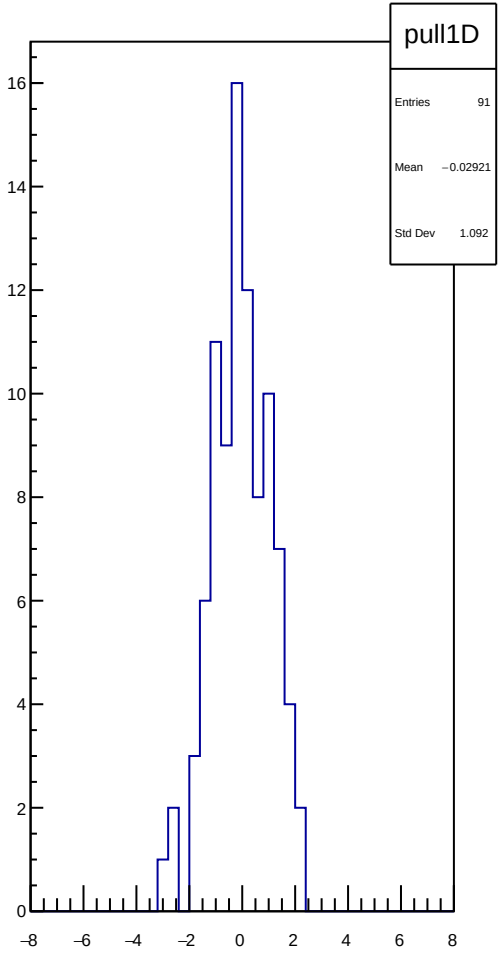

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.724e+05 / 90
p0 77.7 ± 0.06189
220
200
180
160
140
120
100
80
60
40

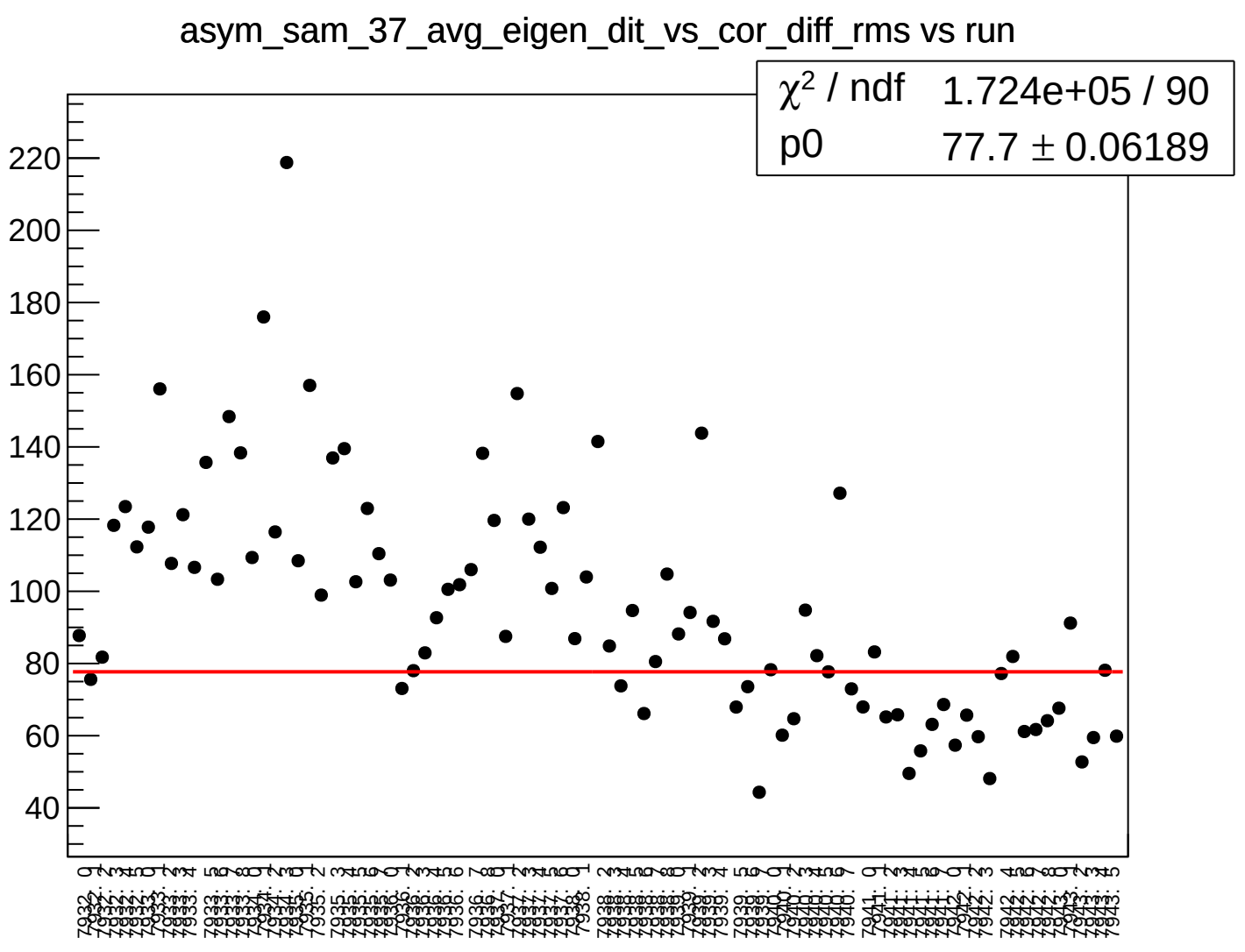

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.72 / 90
p0 2.422e−06 ± 3.361e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 32.85
Std Dev 38.44
2
1
0
−1
−2

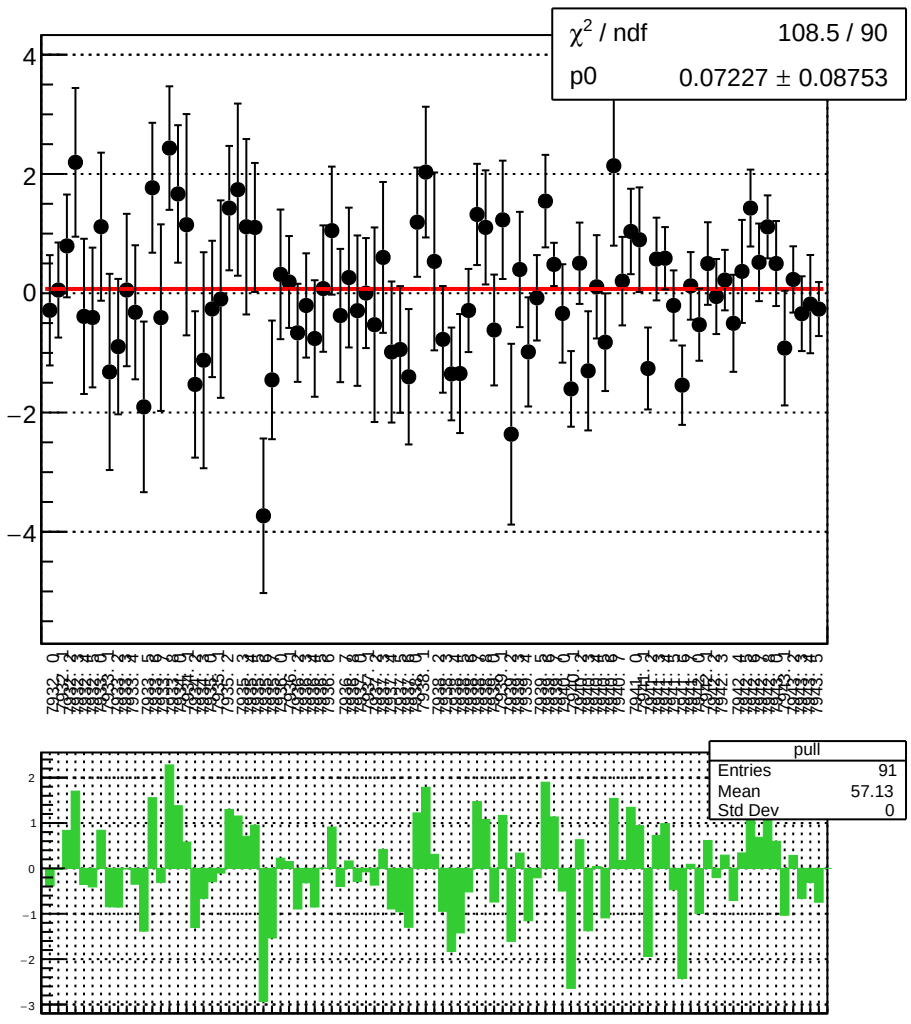

pull1D
Entries 91
Mean −0.01195
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

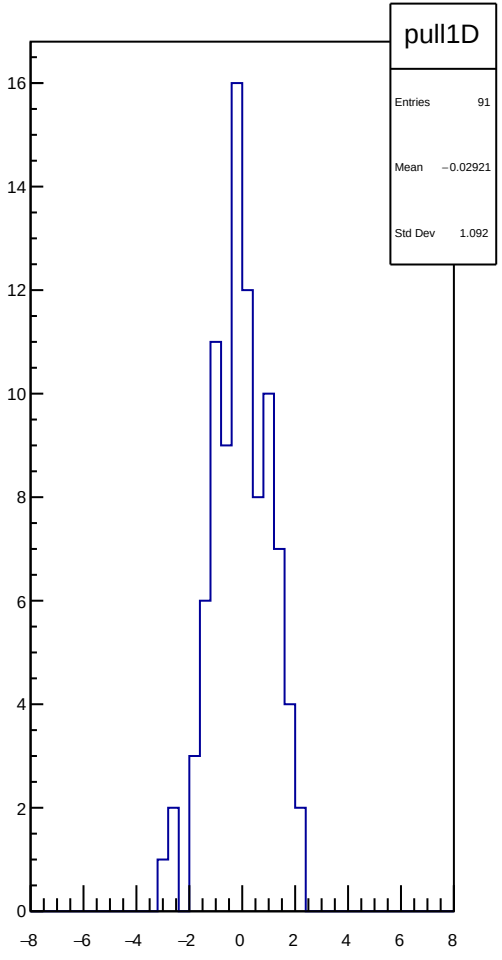

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1701 / 90
p0 0.003141 ± 2.376e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028

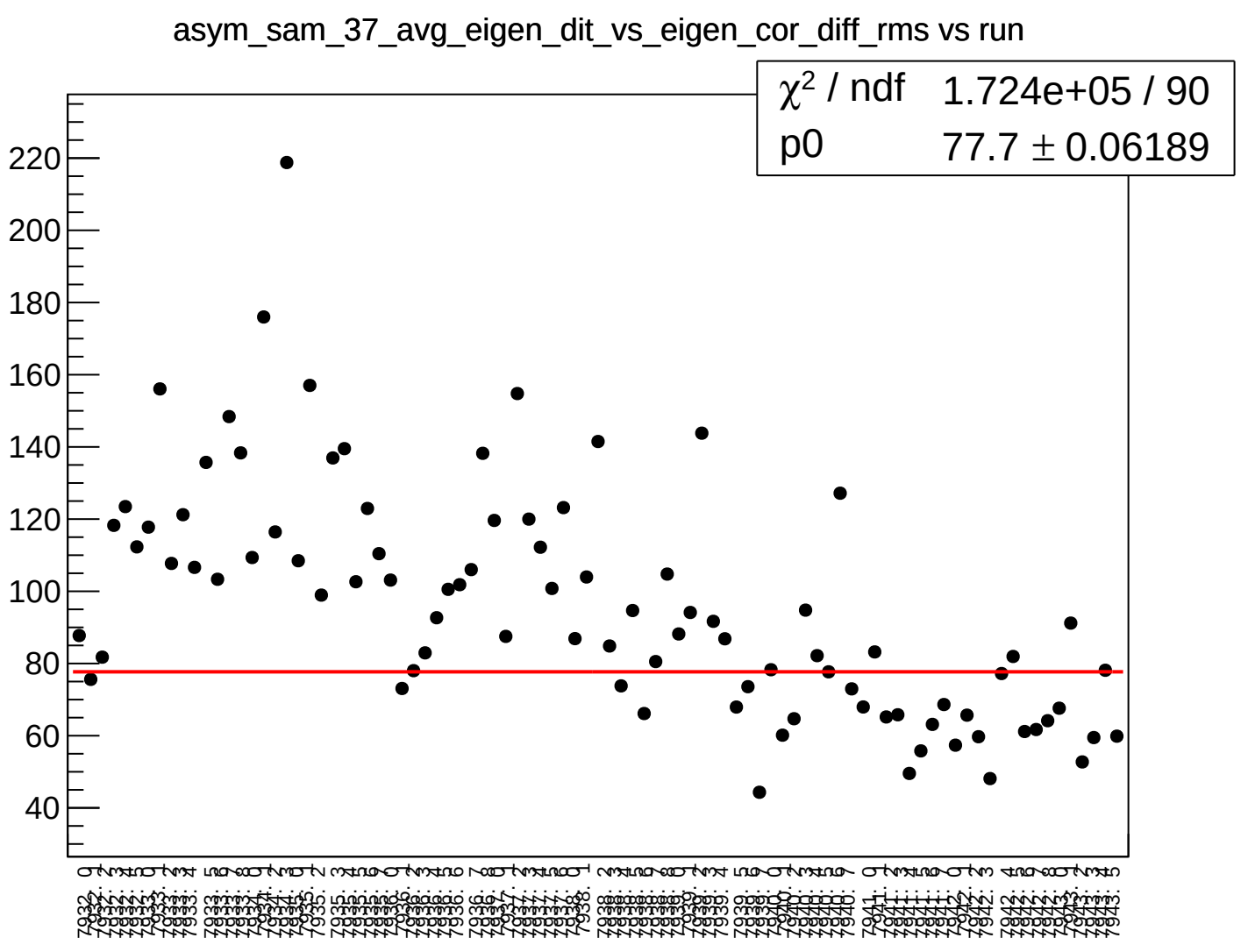

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.5 / 90
p0 0.07227 ± 0.08753
pull
Entries 91
Mean 57.13
Std Dev 0

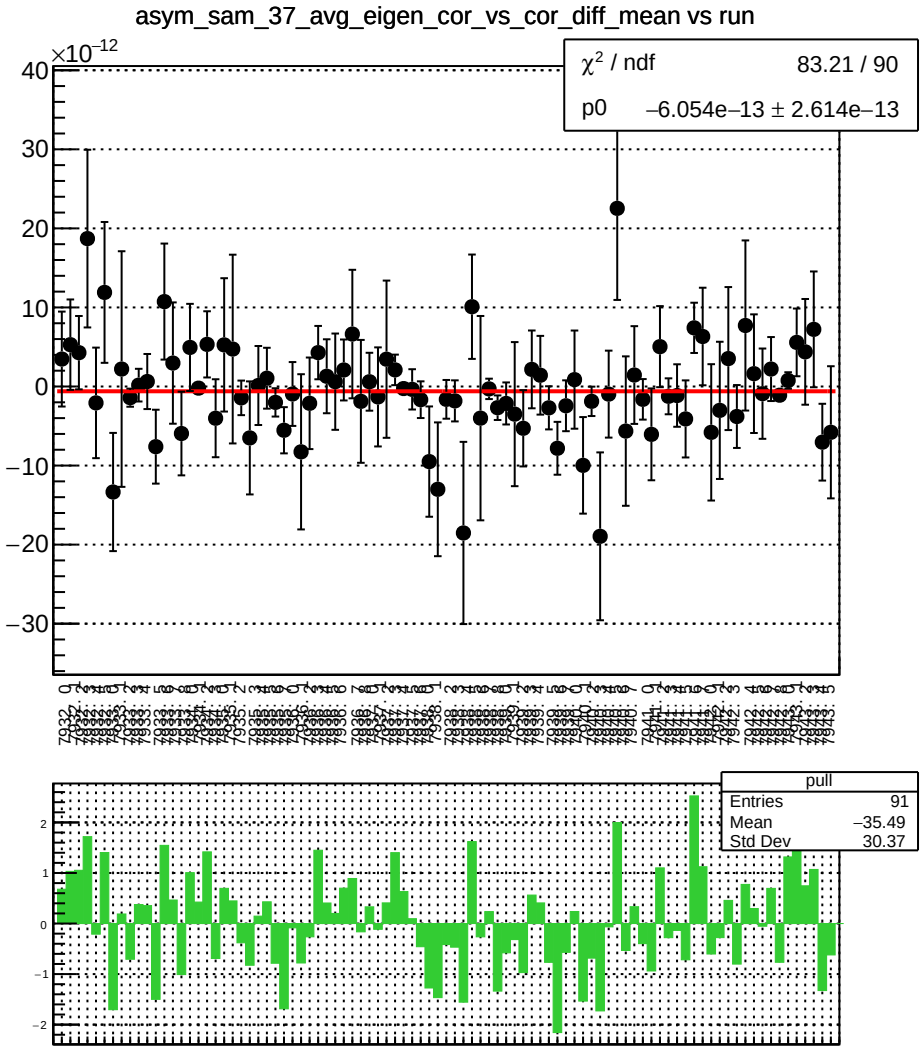

pull1D
Entries 91
Mean −0.02921
Std Dev 1.092

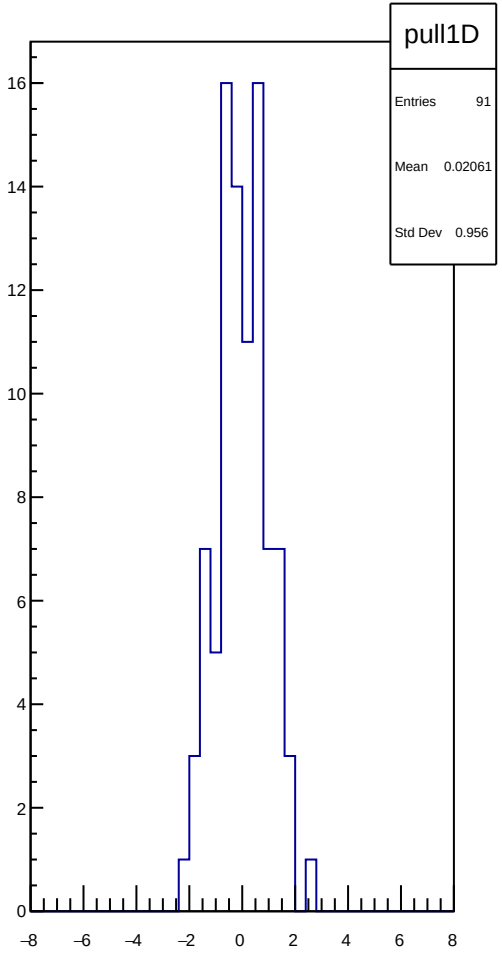

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.724e+05 / 90
p0 77.7 ± 0.06189
220
200
180
160
140
120
100
80
60
40

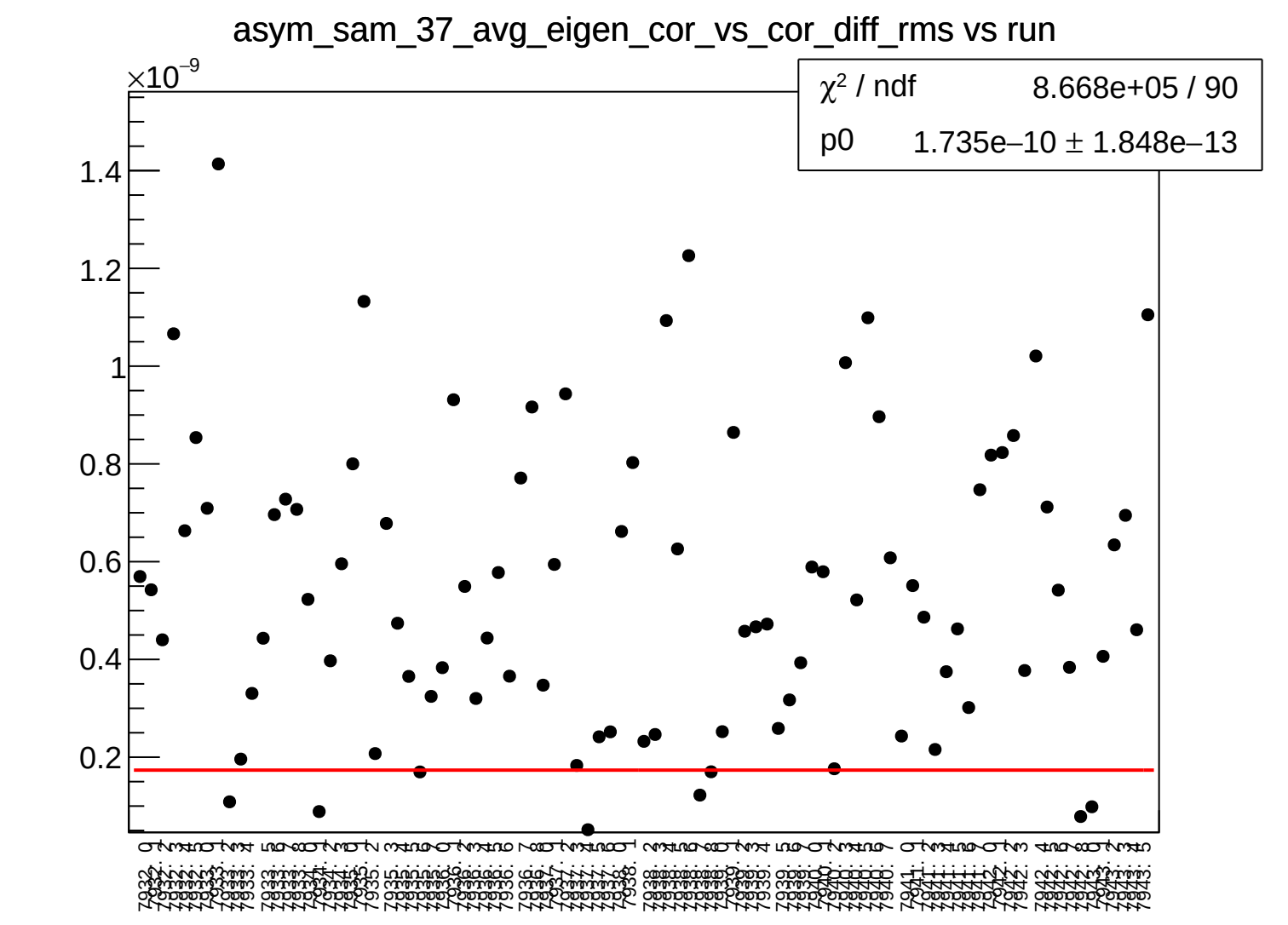

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.5 / 90
p0 0.07227 ± 0.08753
pull
Entries 91
Mean 57.13
Std Dev 0

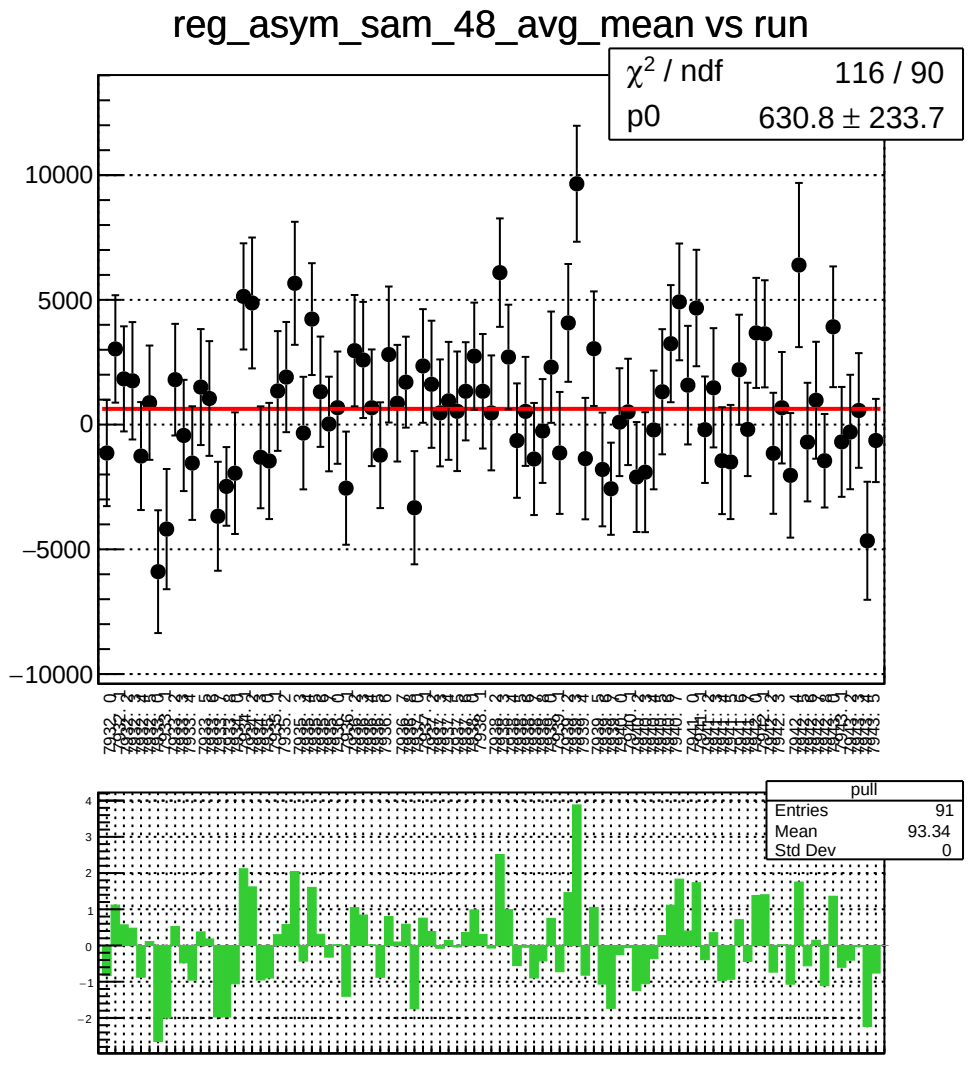

pull1D
Entries 91
Mean −0.02921
Std Dev 1.092

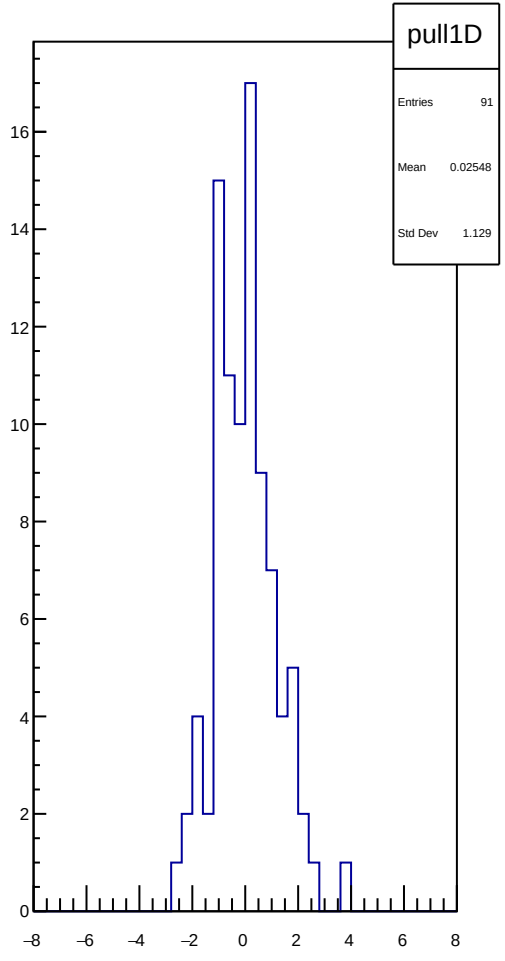

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.724e+05 / 90
p0 77.7 ± 0.06189
220
200
180
160
140
120
100
80
60
40

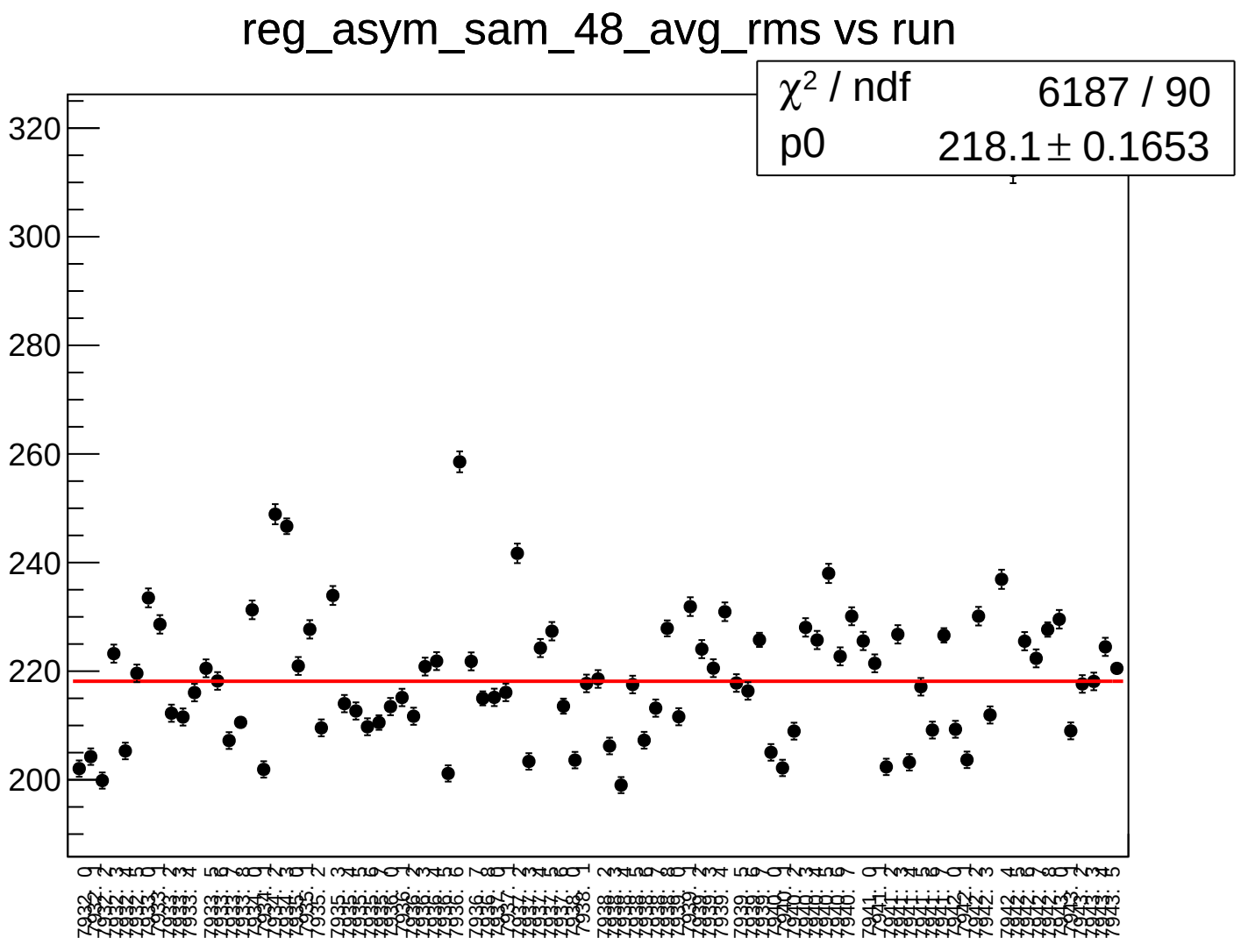

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 83.21 / 90
p0 −6.054e−13 ± 2.614e−13
pull
Entries 91
Mean −35.49
Std Dev 30.37

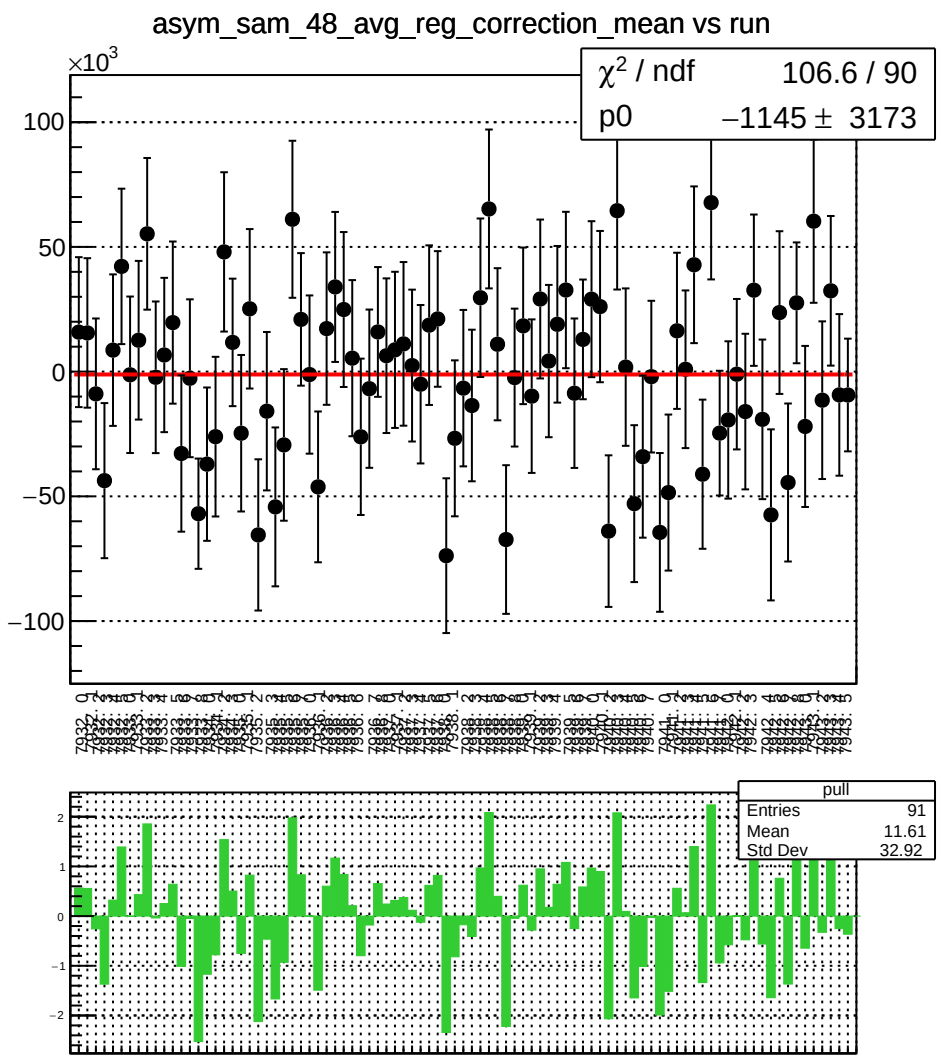

pull1D
Entries 91
Mean 0.02061
Std Dev 0.956

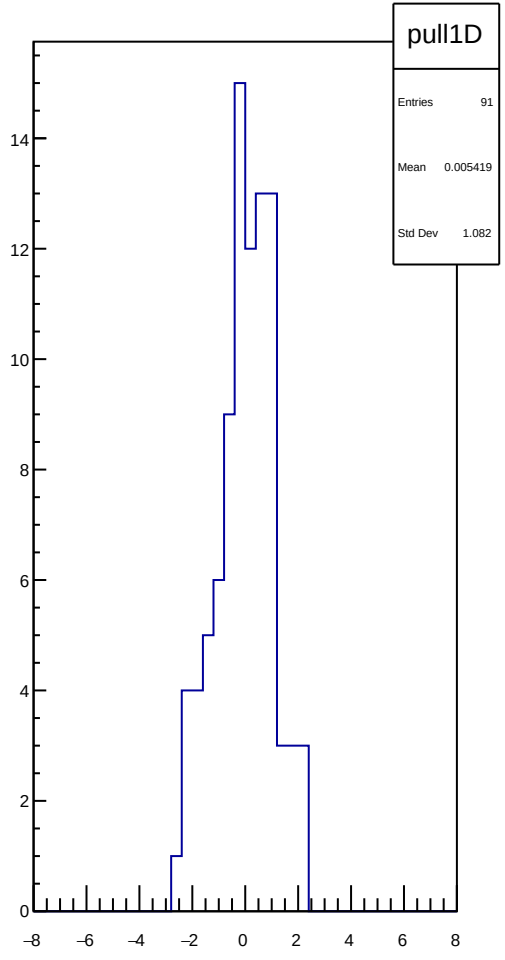

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.668e+05 / 90
p0 1.735e−10 ± 1.848e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

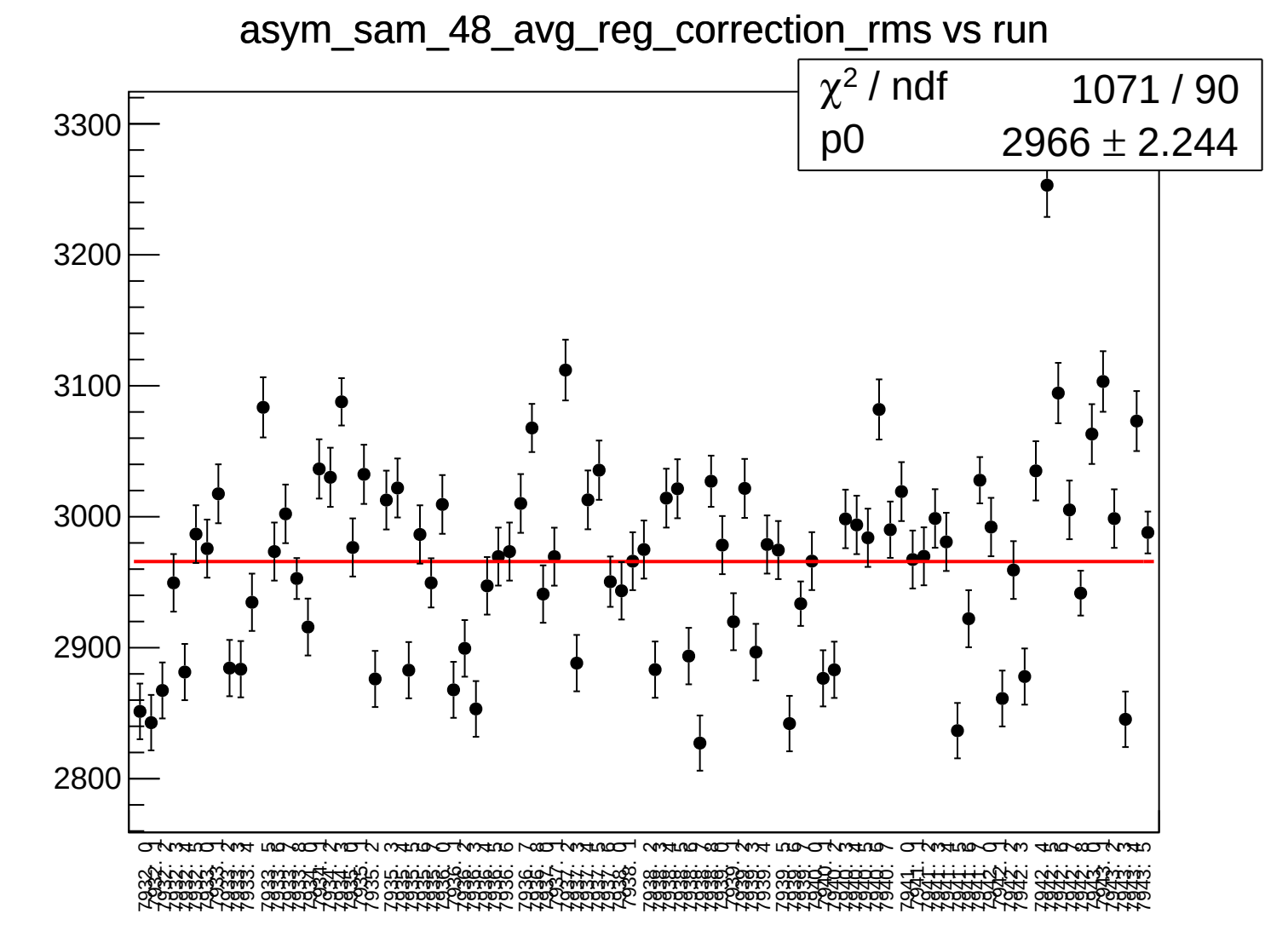

reg_asym_sam_48_avg_mean vs run
χ² / ndf 116 / 90
p0 630.8 ± 233.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 93.34
Std Dev 0
4
3
2
1
0
−1
−2

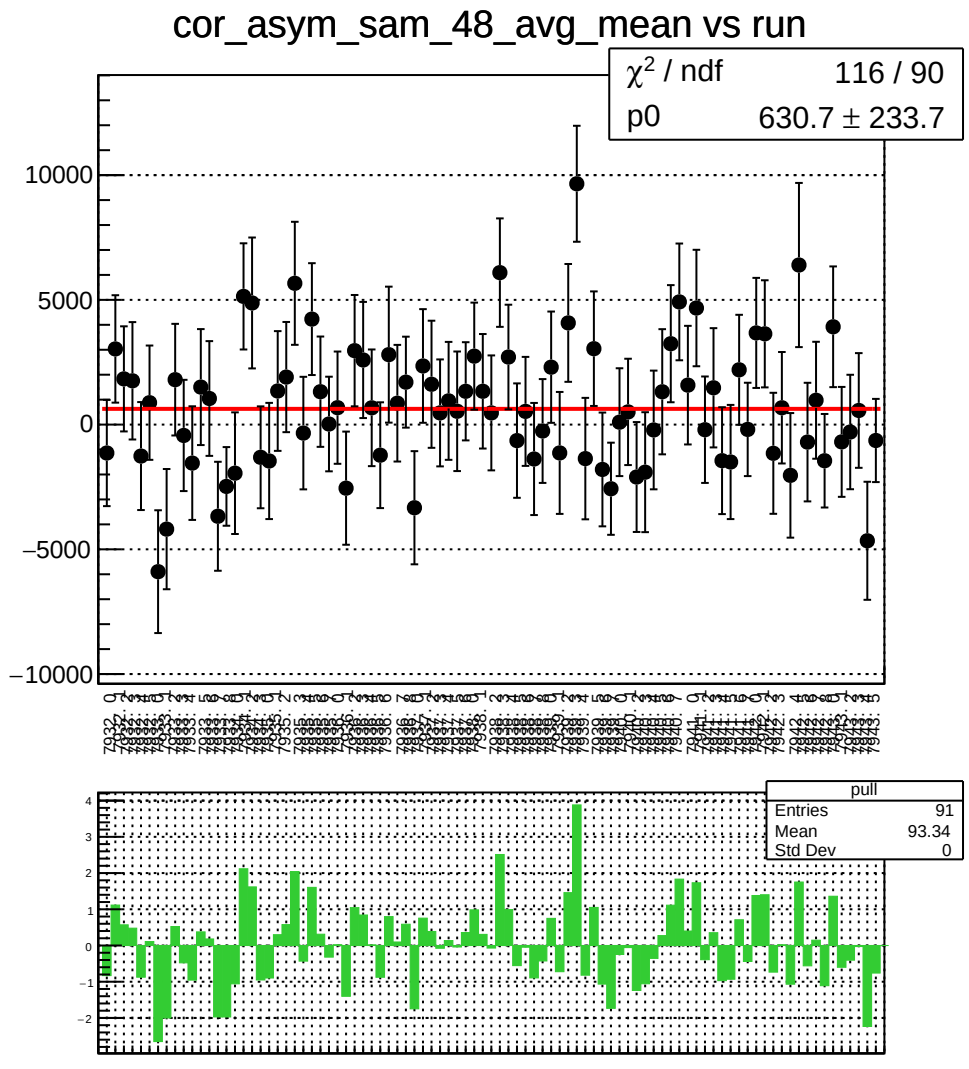

pull1D
Entries 91
Mean 0.02548
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

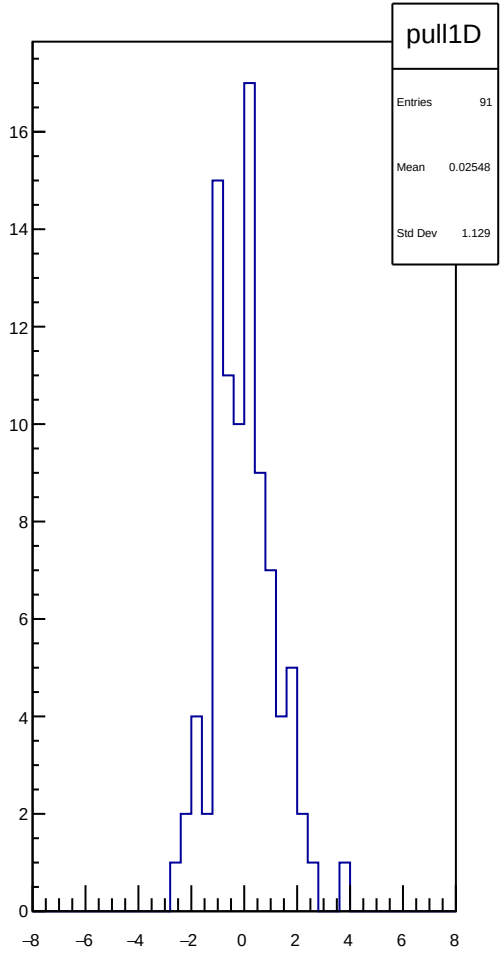

reg_asym_sam_48_avg_rms vs run
χ² / ndf 6187 / 90
p0 218.1 ± 0.1653
320
300
280
260
240
220
200

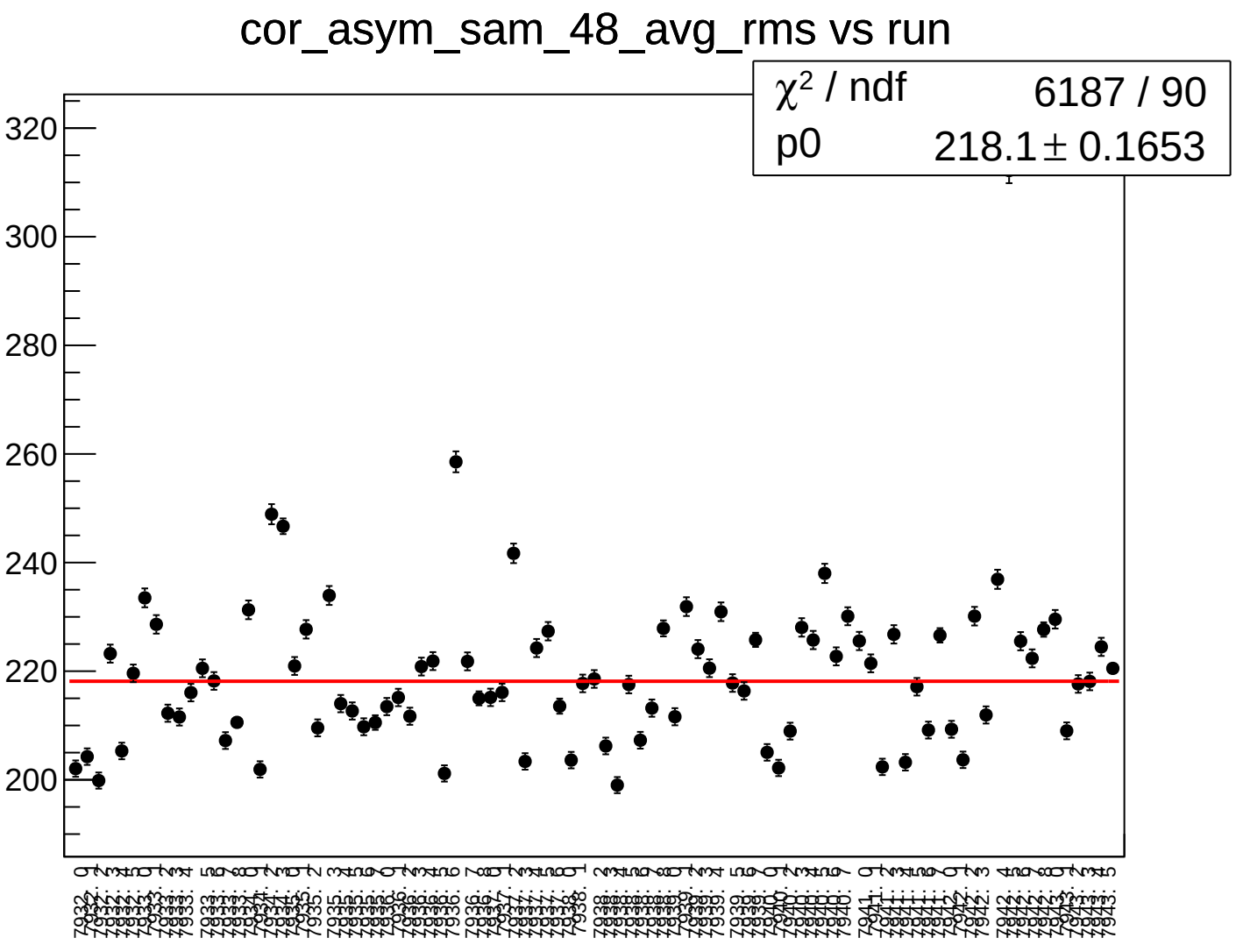

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.6 / 90
p0 −1145 ± 3173
100
50
0
−50
−100
pull
Entries 91
Mean 11.61
Std Dev 32.92
2
1
0
−1
−2

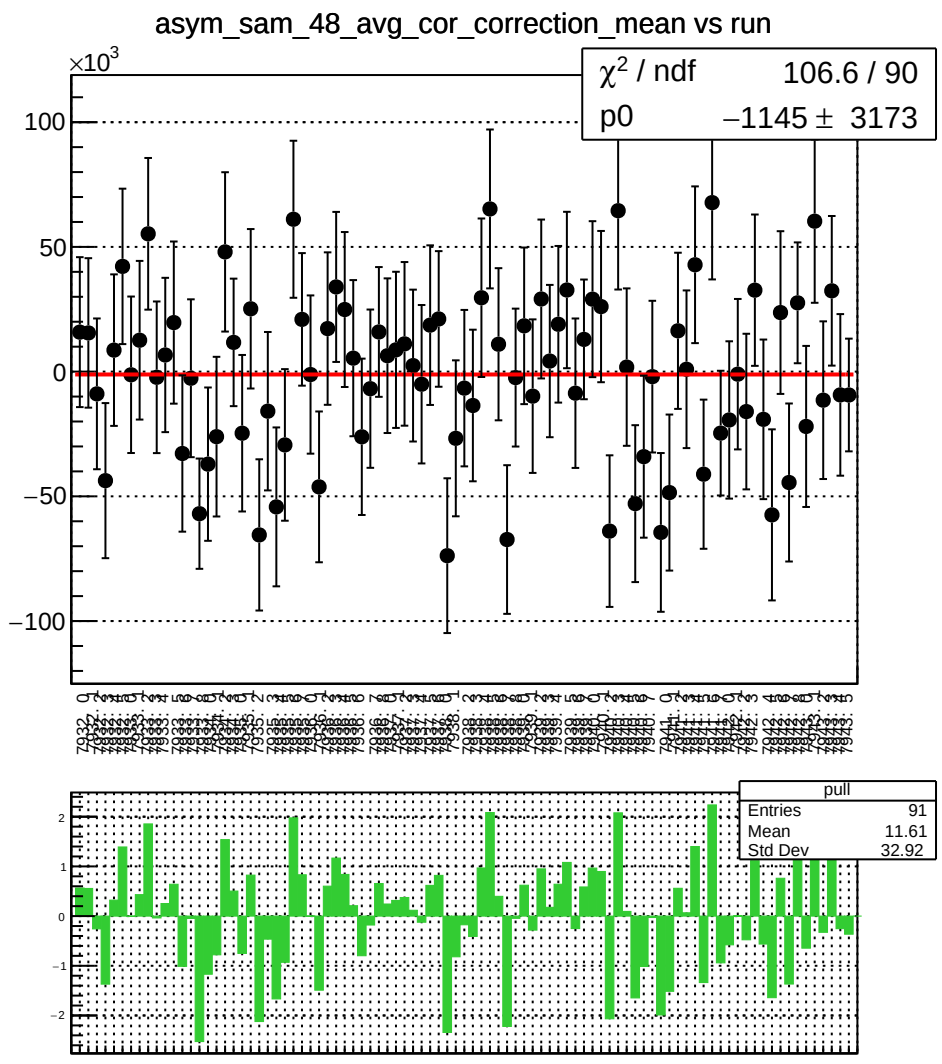

pull1D
Entries 91
Mean 0.005419
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

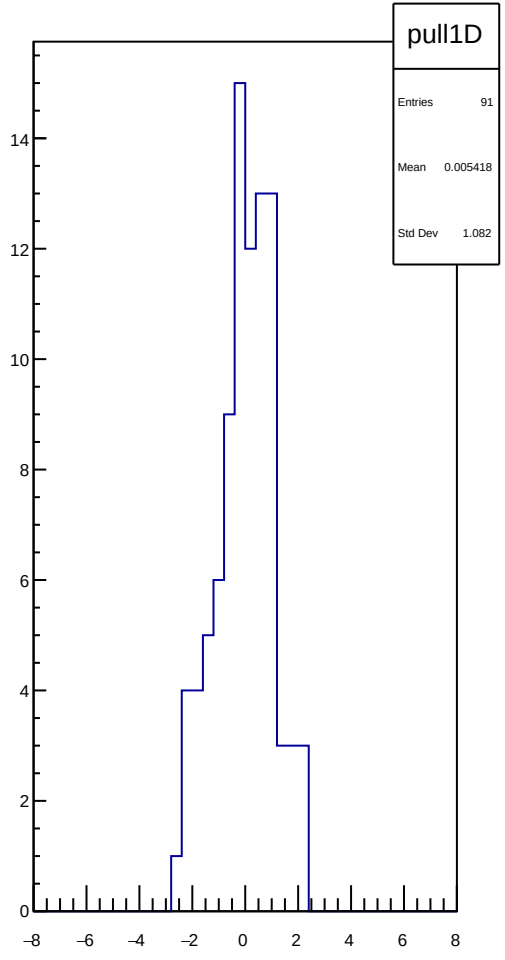

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1071 / 90
p0 2966 ± 2.244
3300
3200
3100
3000
2900
2800

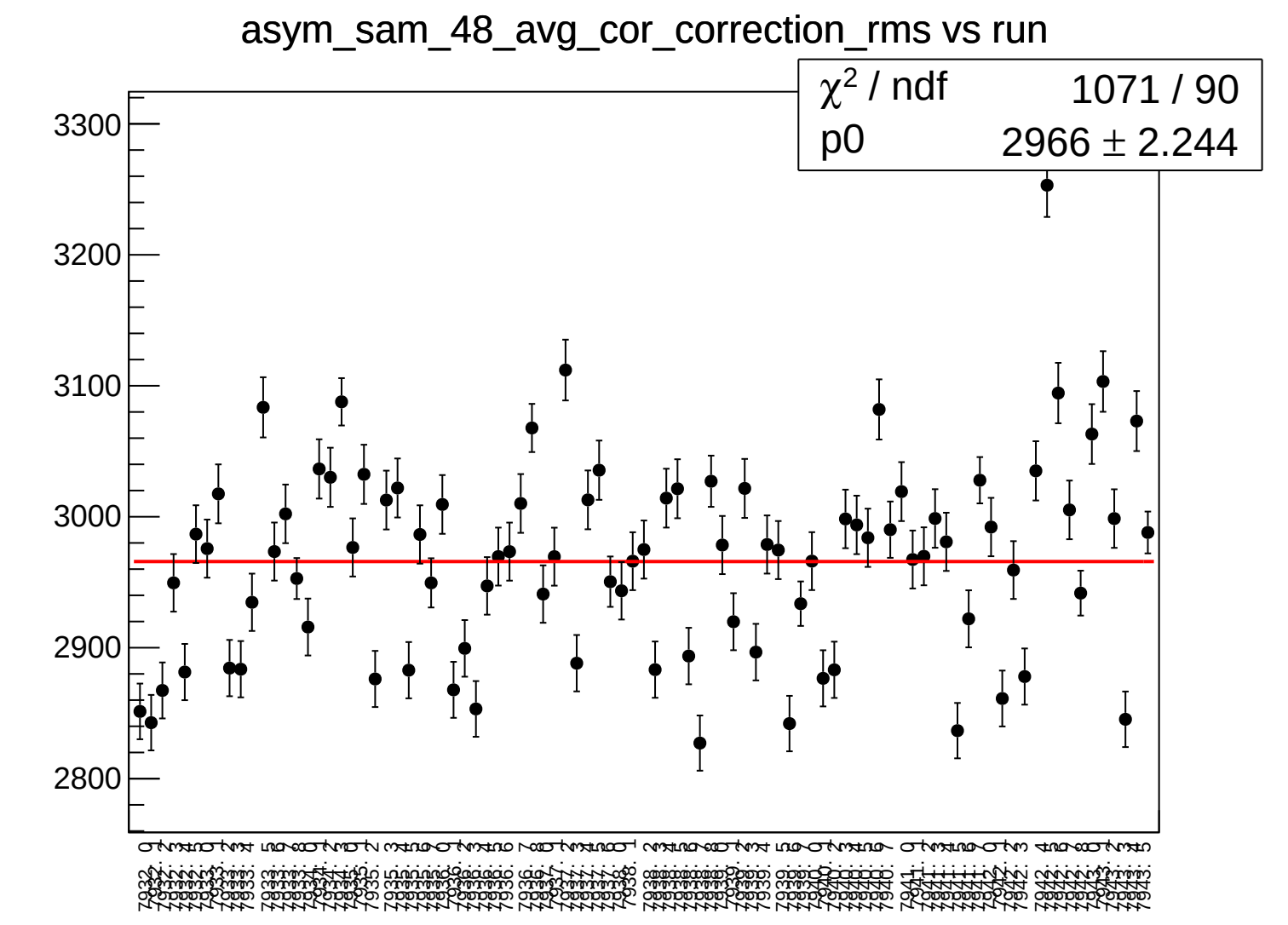

cor_asym_sam_48_avg_mean vs run
χ² / ndf 116 / 90
p0 630.7 ± 233.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 93.34
Std Dev 0
4
3
2
1
0
−1
−2

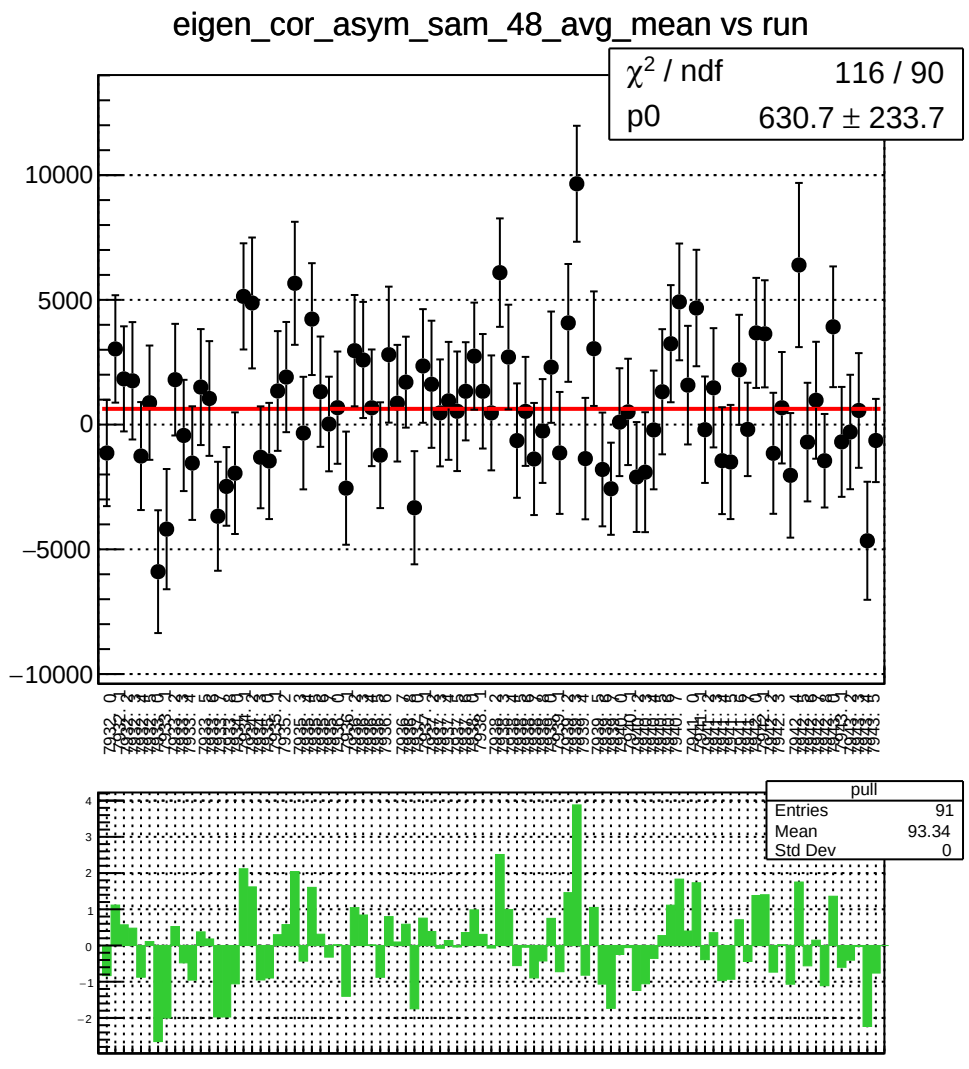

pull1D
Entries 91
Mean 0.02548
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

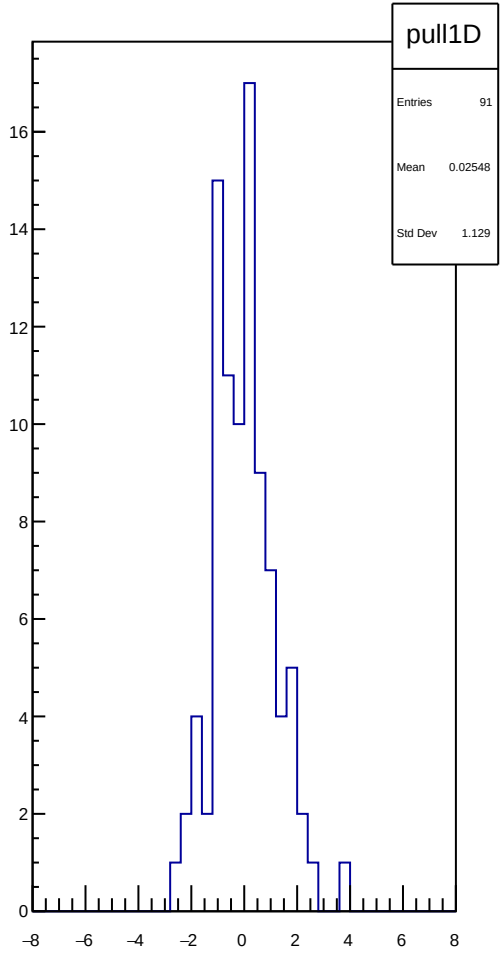

cor_asym_sam_48_avg_rms vs run
χ² / ndf 6187 / 90
p0 218.1 ± 0.1653
320
300
280
260
240
220
200

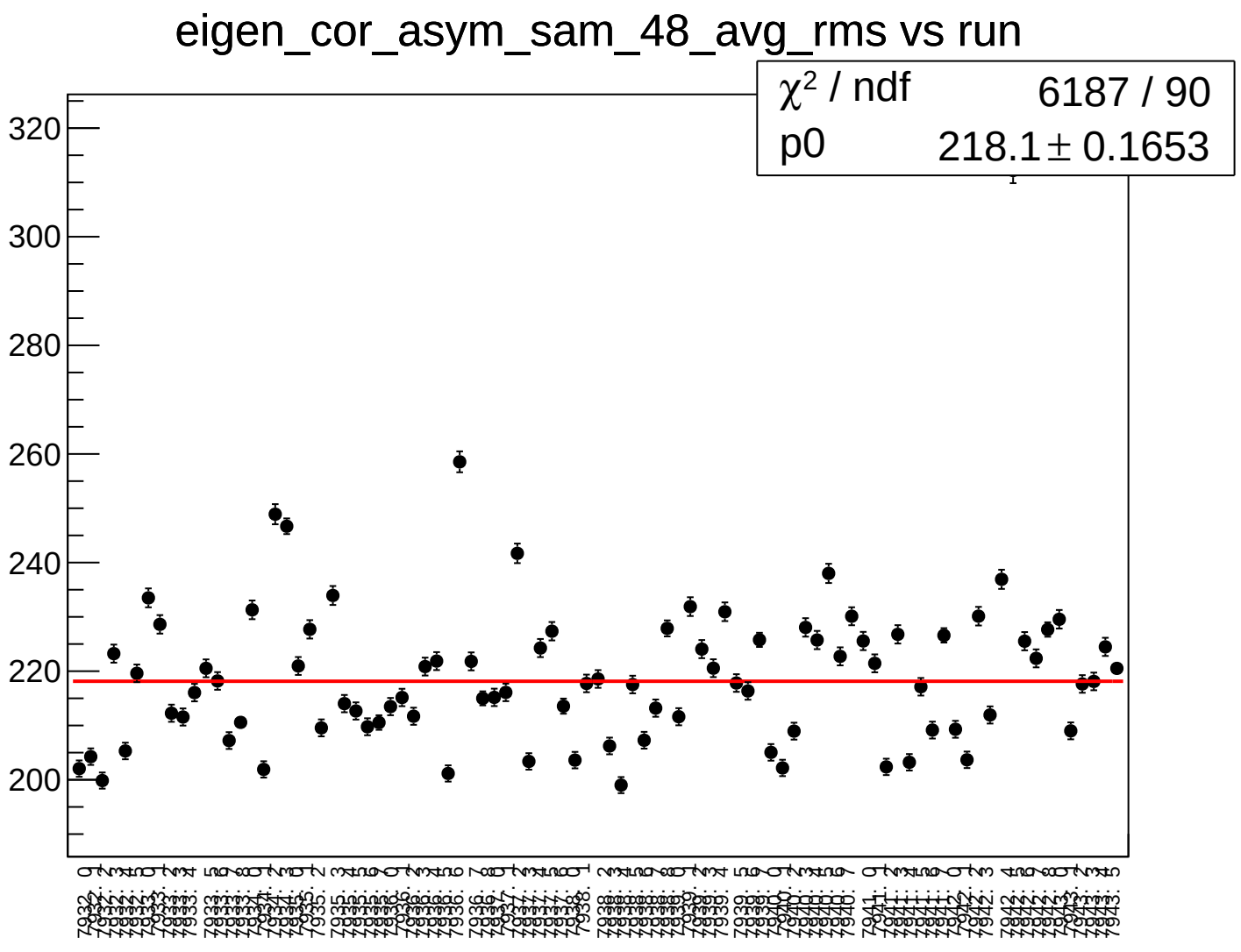

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.6 / 90
p0 −1145 ± 3173
100
50
0
−50
−100
pull
Entries 91
Mean 11.61
Std Dev 32.92
2
1
0
−1
−2

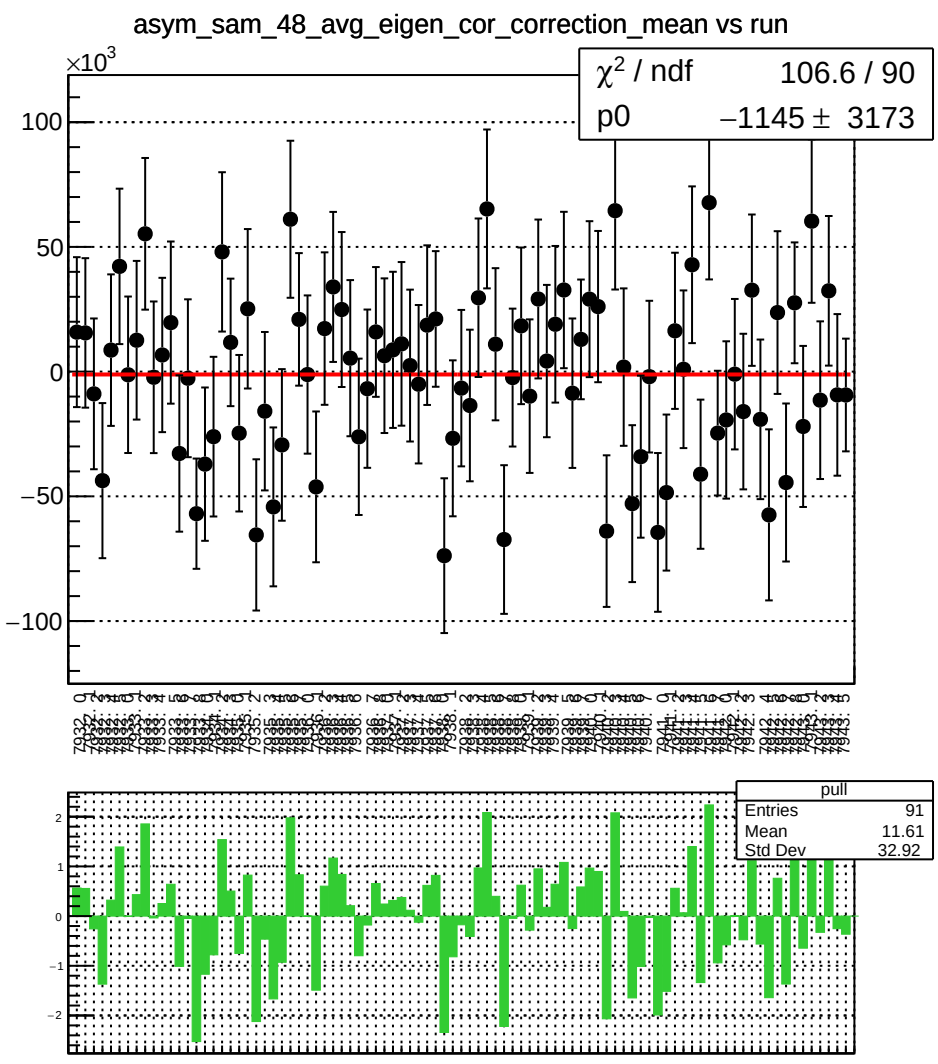

pull1D
Entries 91
Mean 0.005418
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

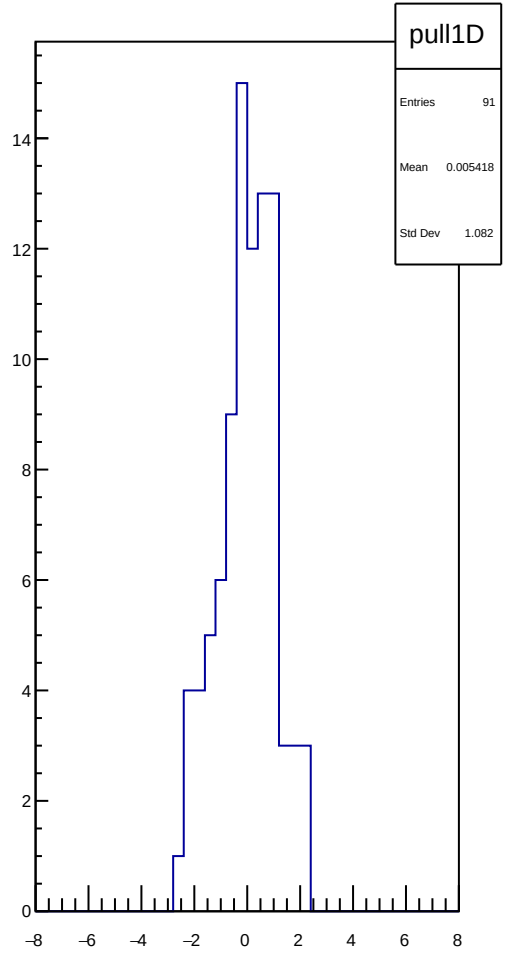

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1071 / 90
p0 2966 ± 2.244
3300
3200
3100
3000
2900
2800

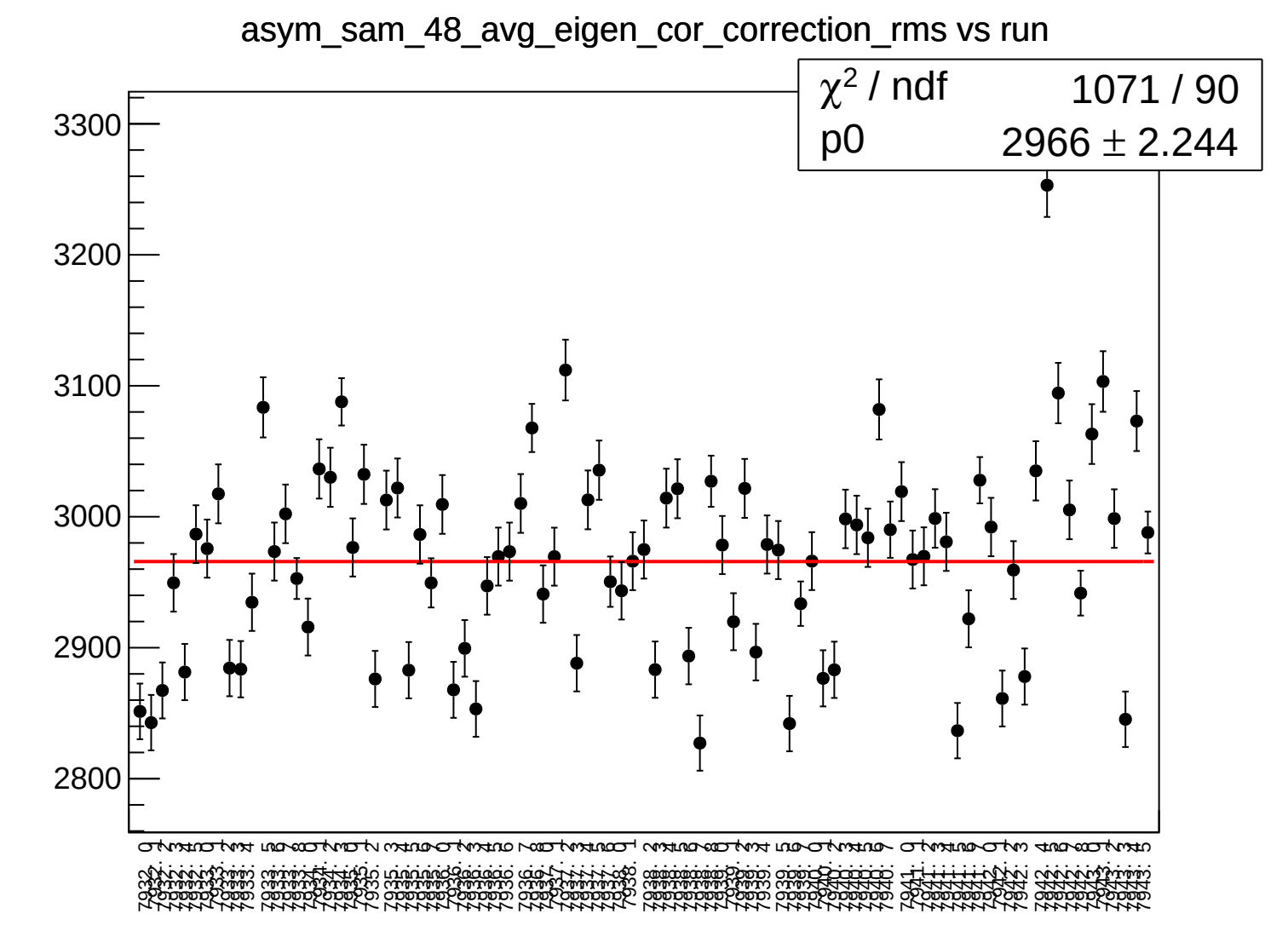

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 116 / 90
p0 630.7 ± 233.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 93.34
Std Dev 0
4
3
2
1
0
−1
−2

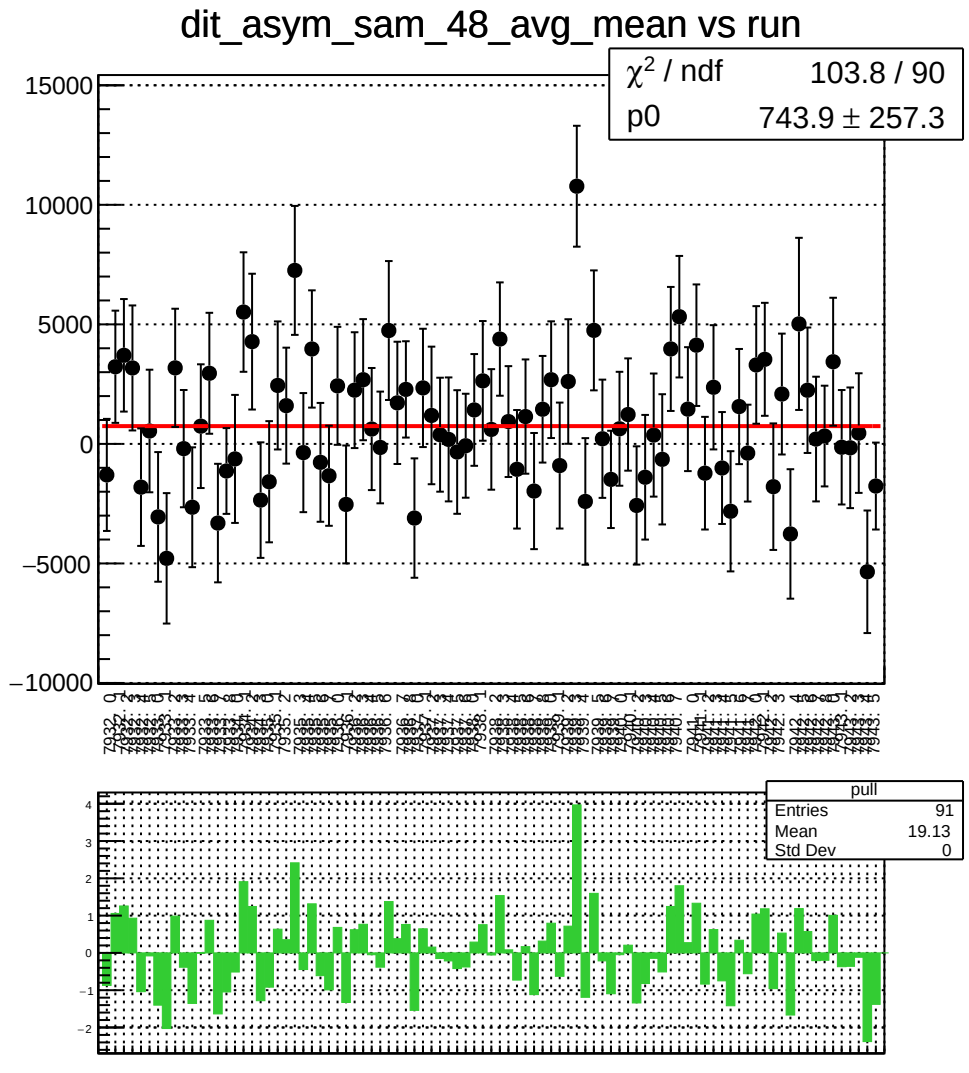

pull1D
Entries 91
Mean 0.02548
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

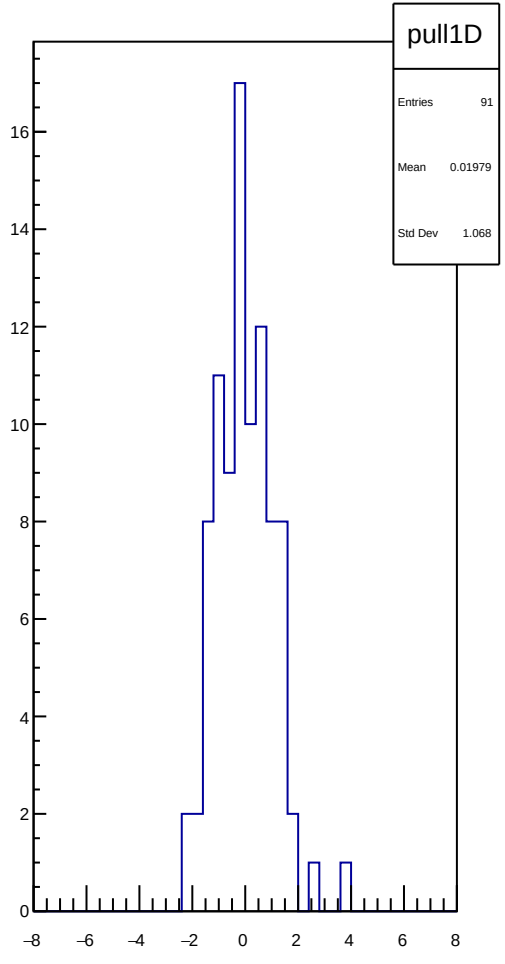

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 6187 / 90
p0 218.1 ± 0.1653
320
300
280
260
240
220
200

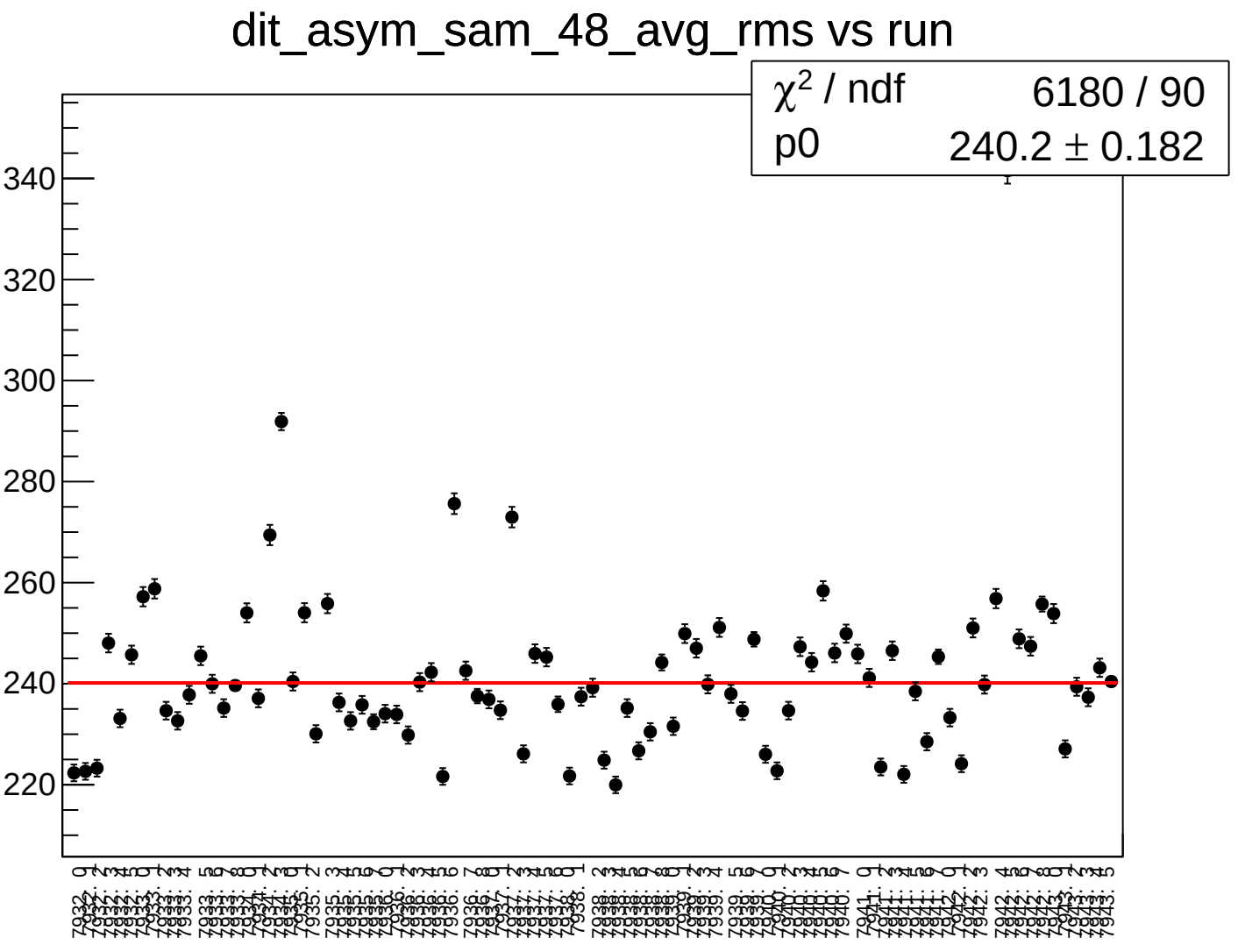

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.6 / 90
p0 −1145 ± 3173
100
50
0
−50
−100
pull
Entries 91
Mean 11.61
Std Dev 32.92
2
1
0
−1
−2

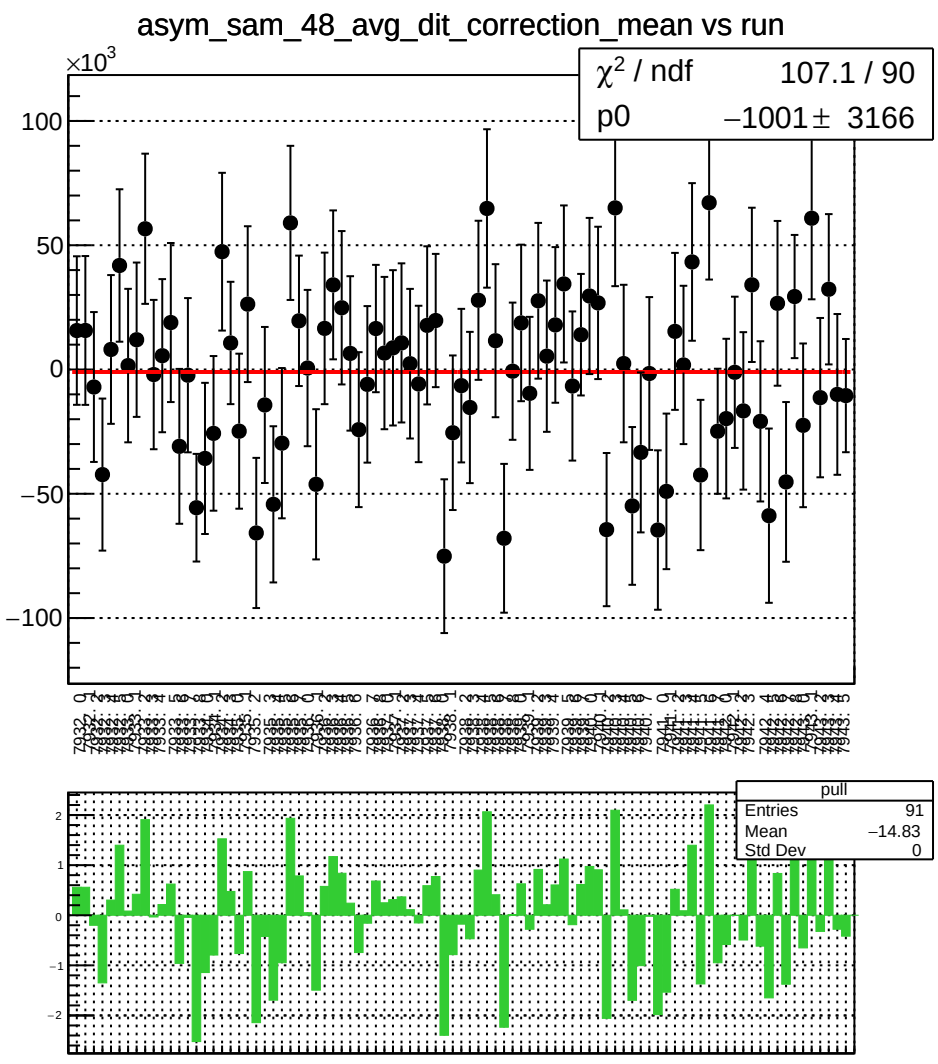

pull1D
Entries 91
Mean 0.005418
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

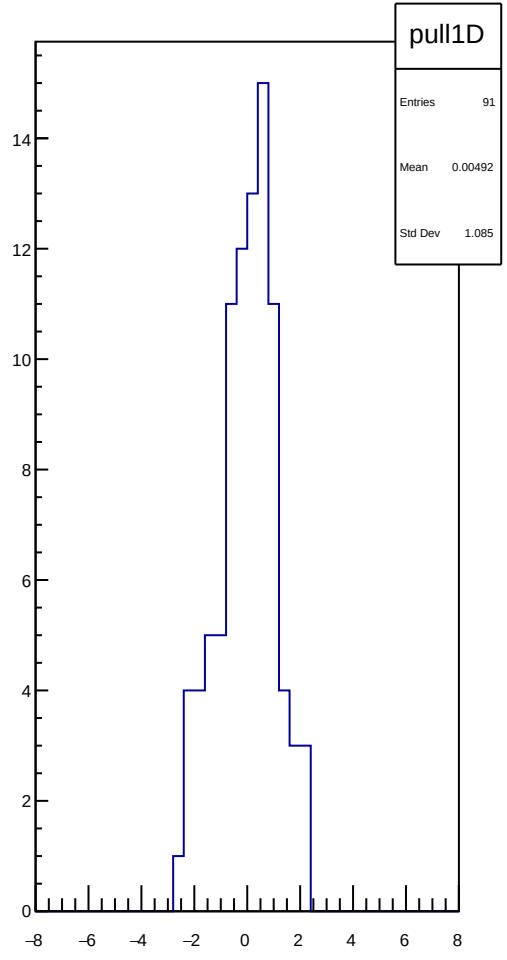

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1071 / 90
p0 2966 ± 2.244
3300
3200
3100
3000
2900
2800

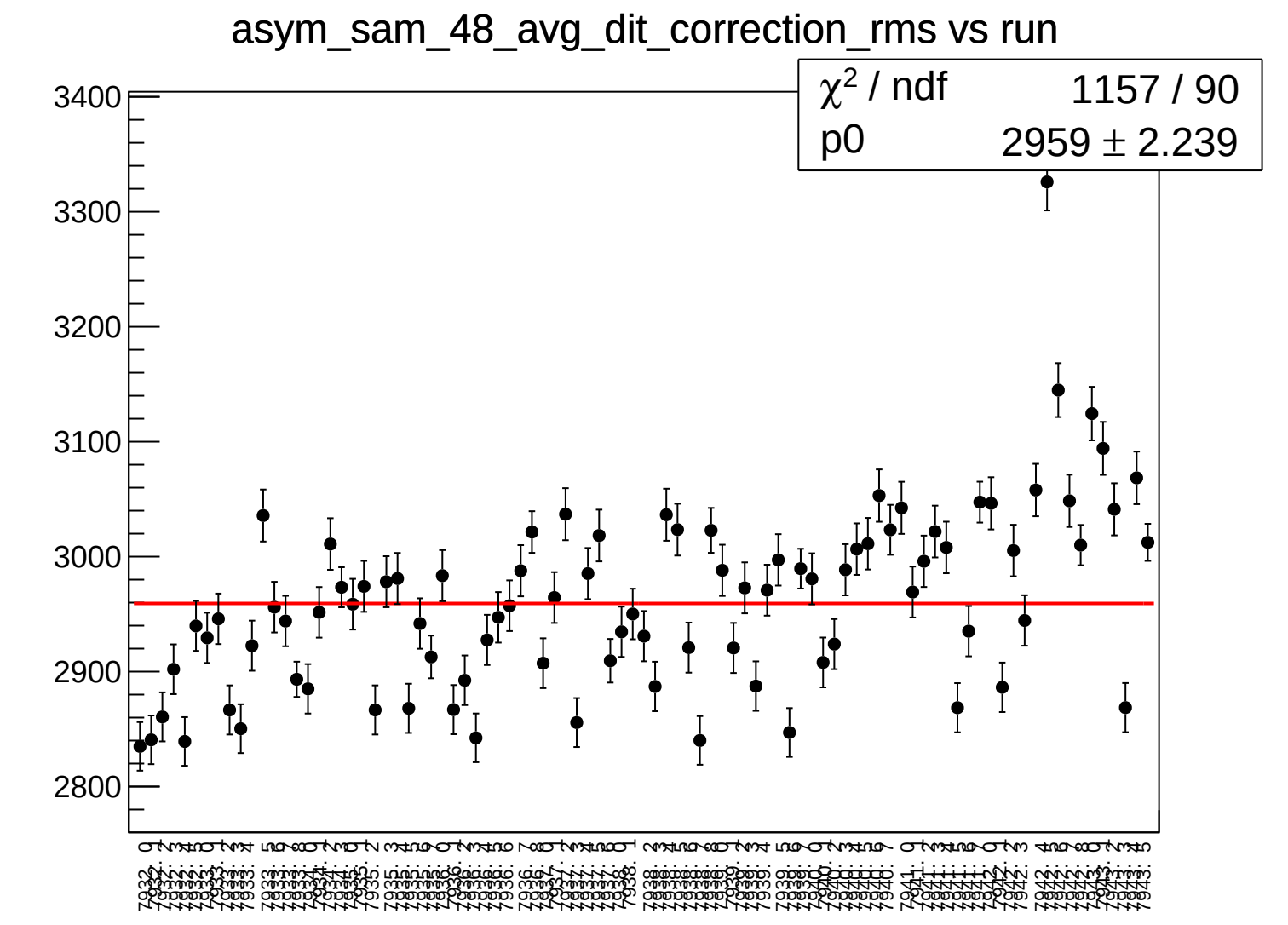

dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.8 / 90
p0 743.9 ± 257.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 19.13
Std Dev 0
4
3
2
1
0
−1
−2

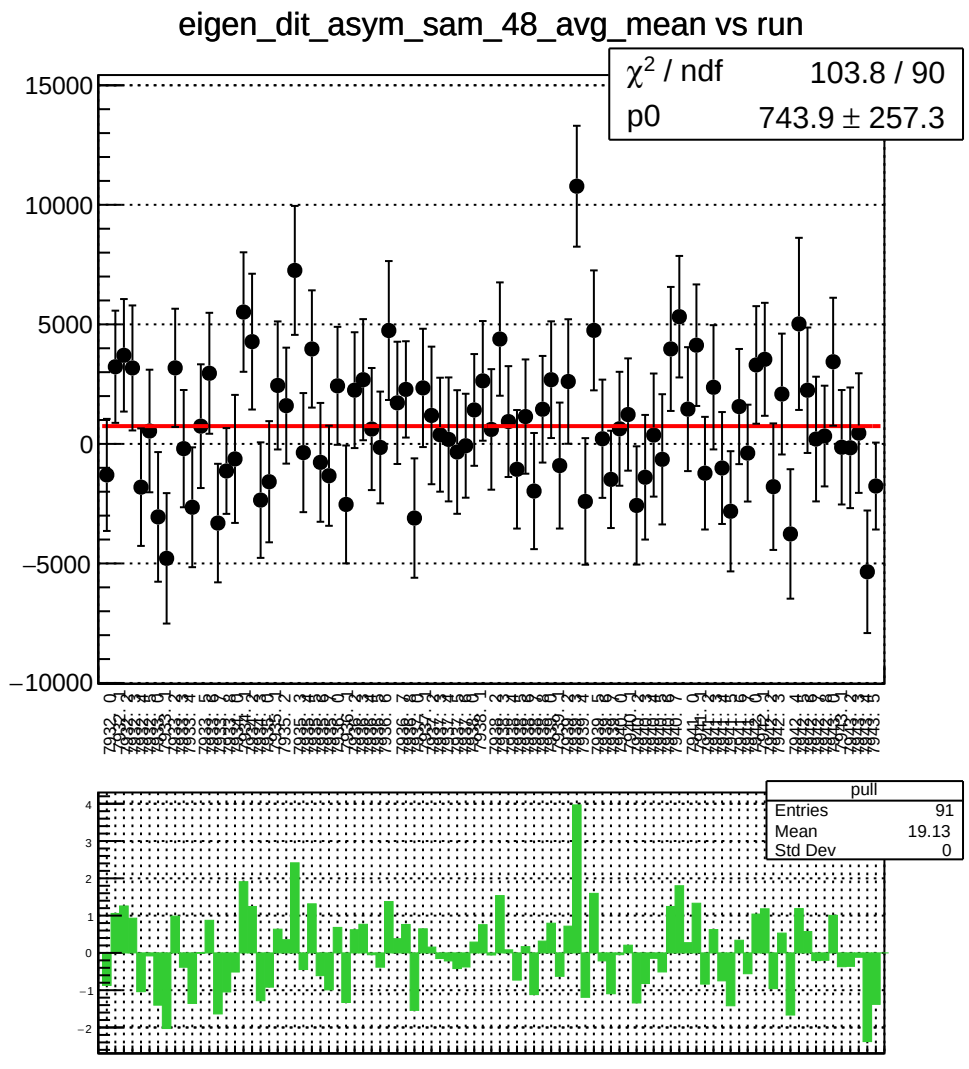

pull1D
Entries 91
Mean 0.01979
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

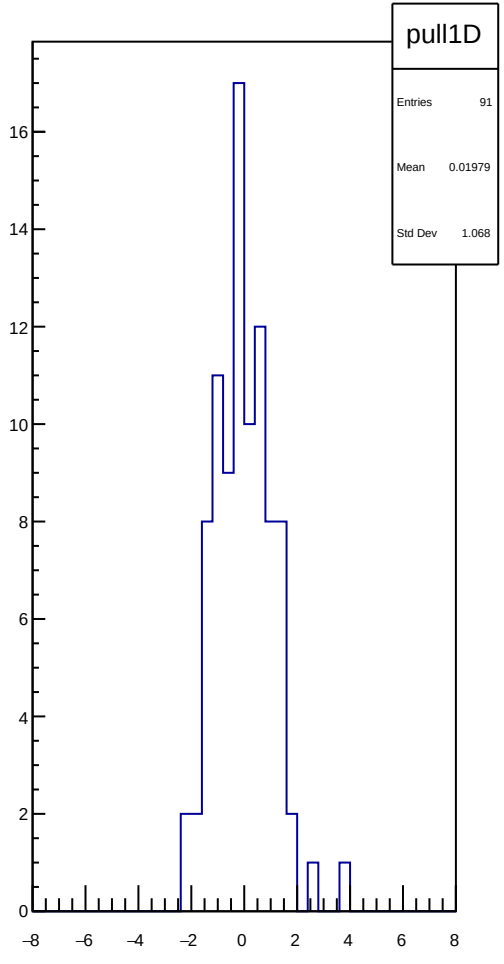

dit_asym_sam_48_avg_rms vs run
χ² / ndf 6180 / 90
p0 240.2 ± 0.182
340
320
300
280
260
240
220

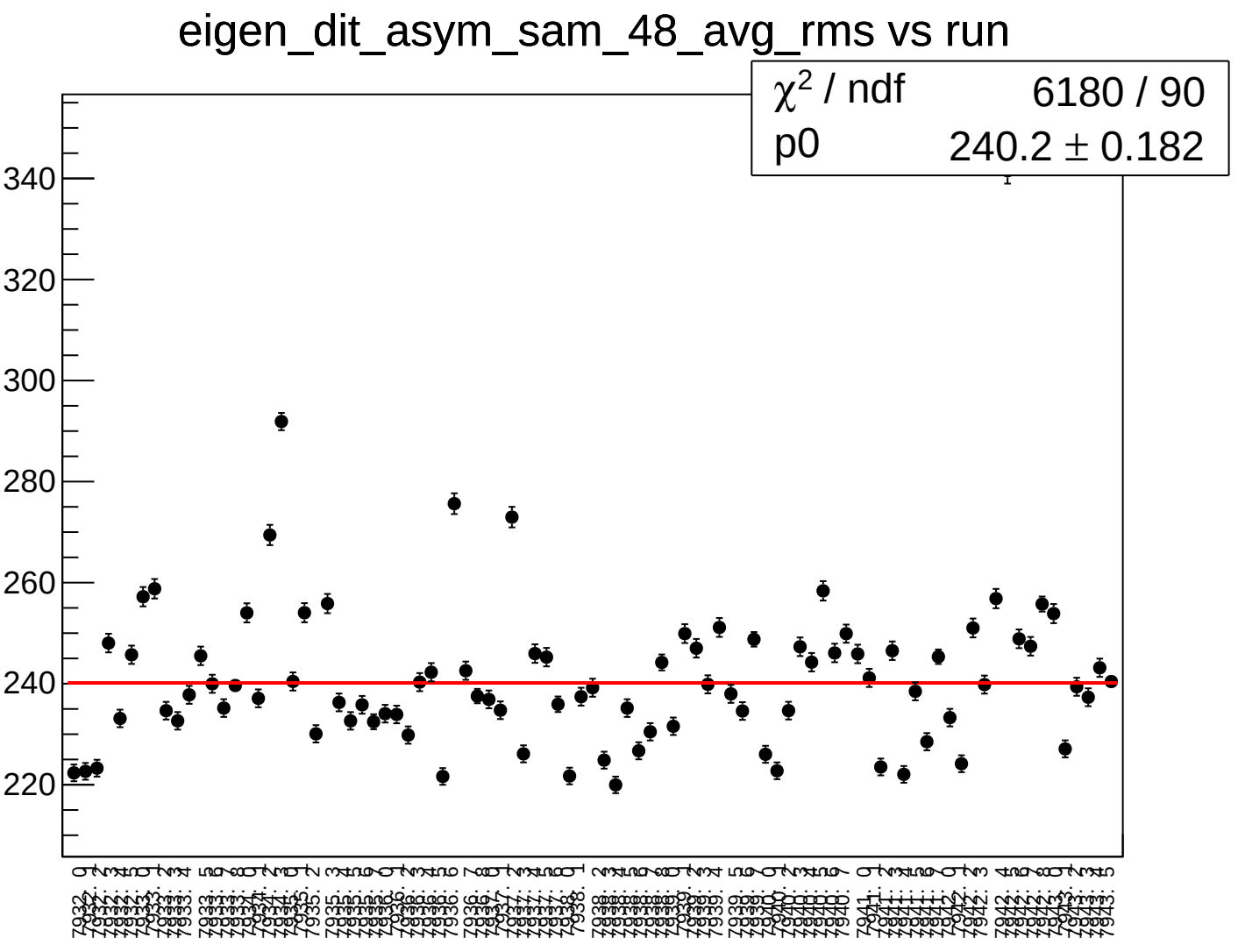

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.1 / 90
p0 −1001 ± 3166
100
50
0
−50
−100
pull
Entries 91
Mean −14.83
Std Dev 0
2
1
0
−1
−2

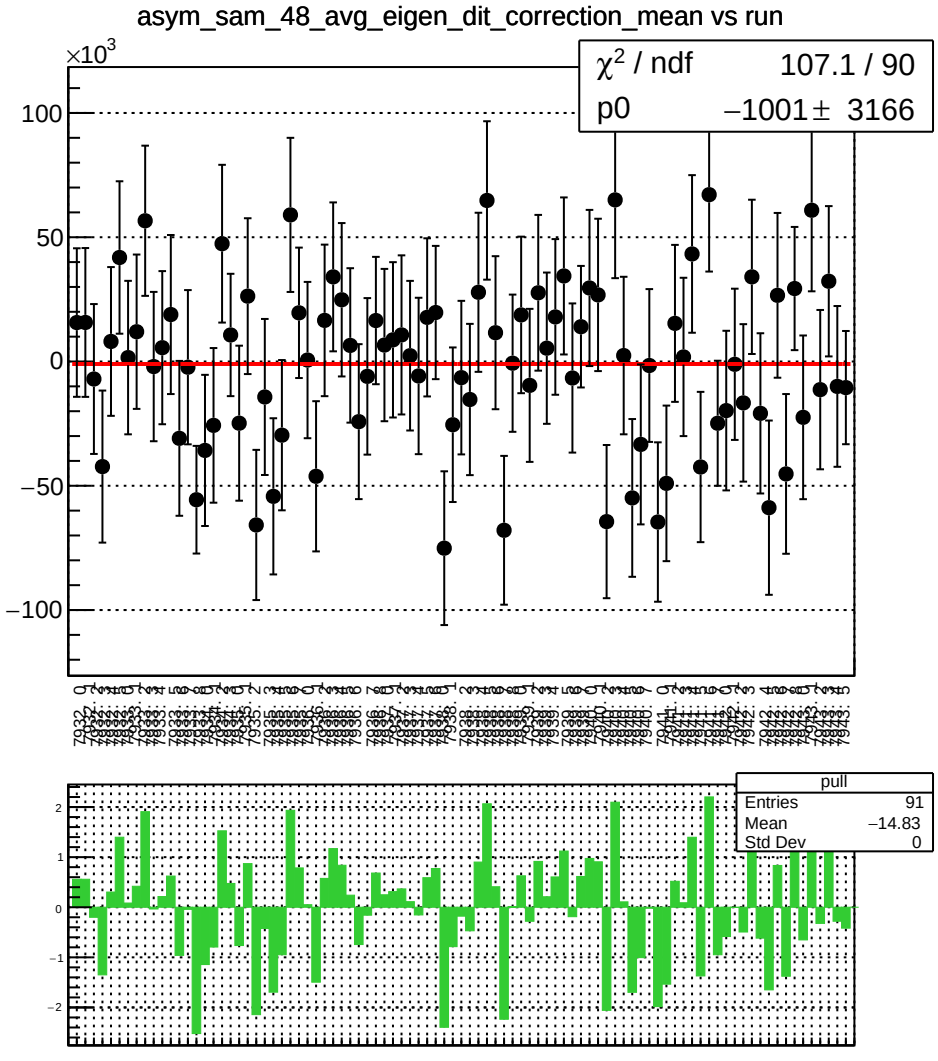

pull1D
Entries 91
Mean 0.00492
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

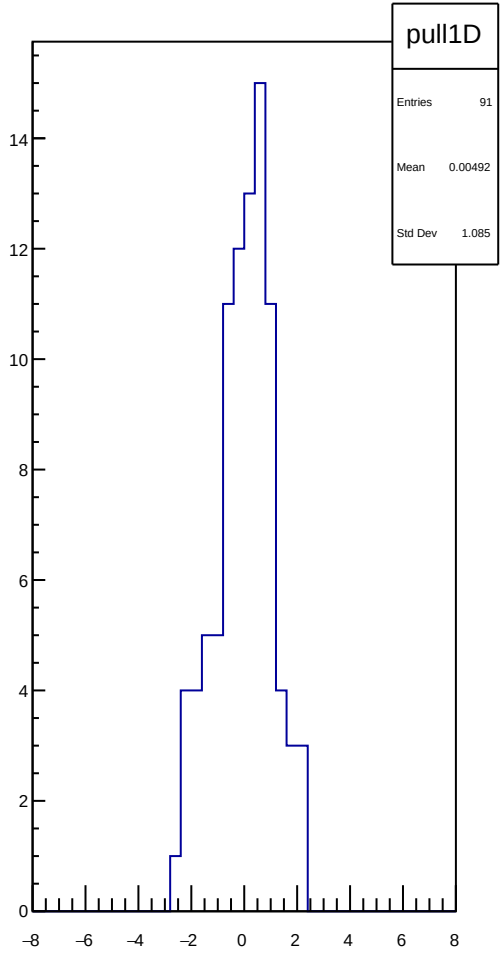

asym_sam_48_avg_dit_correction_rms vs run
χ^2 / ndf 1157 / 90
p0 2959 ± 2.239
3400
3300
3200
3100
3000
2900
2800

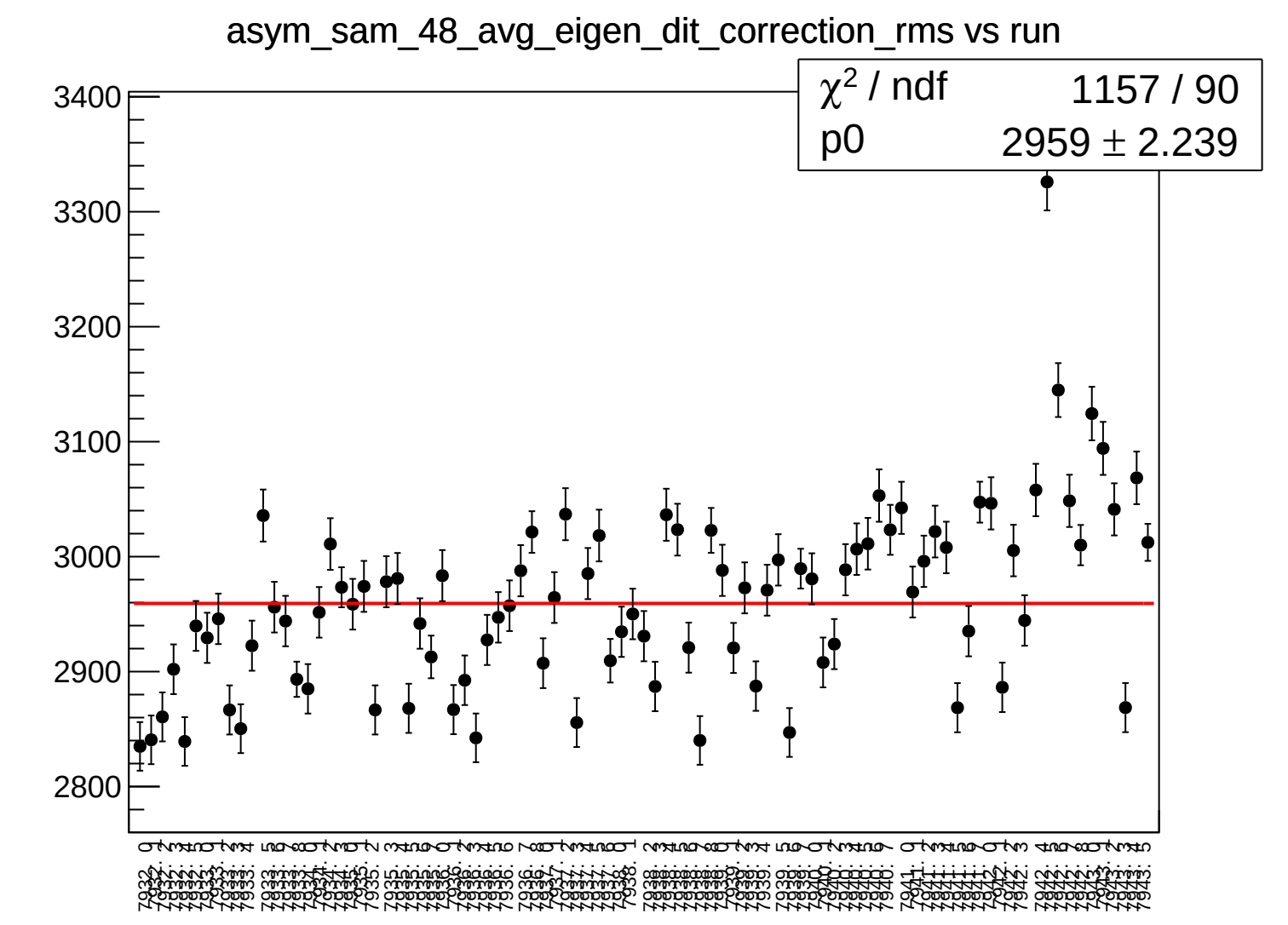

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.8 / 90
p0 743.9 ± 257.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 19.13
Std Dev 0
4
3
2
1
0
−1
−2

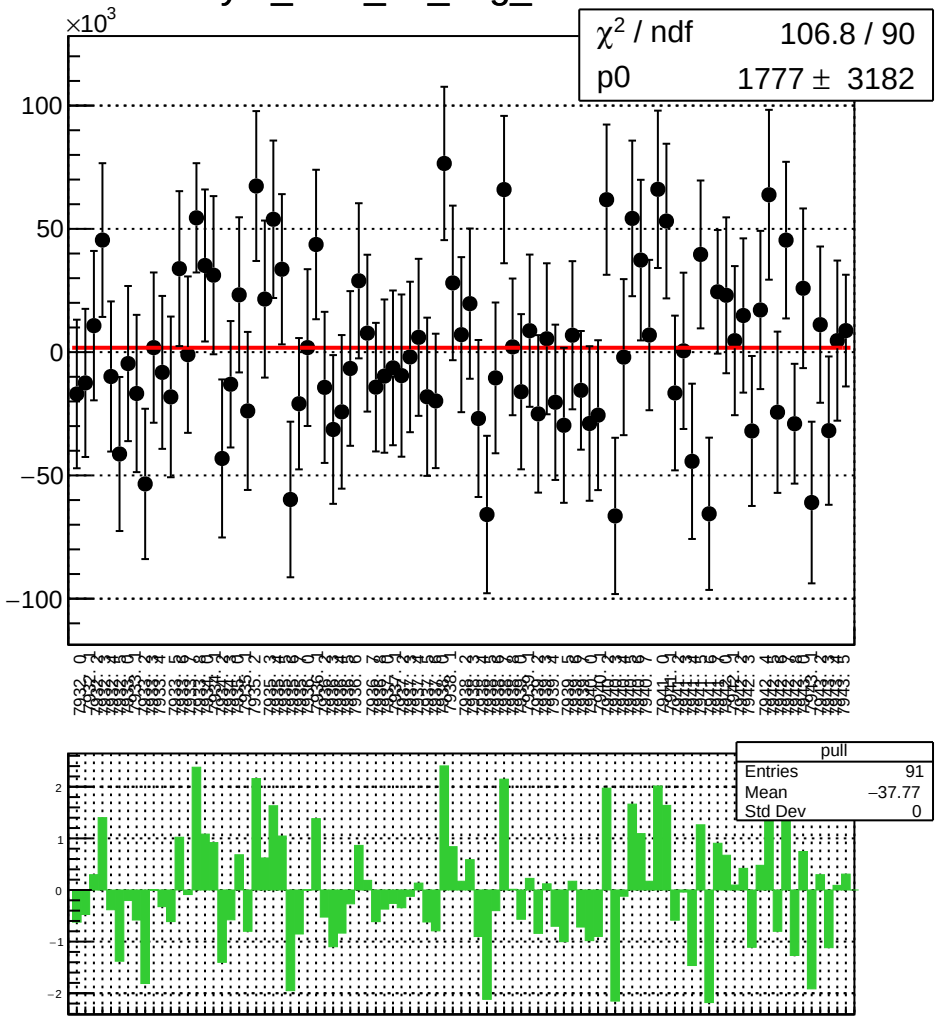

pull1D
Entries 91
Mean 0.01979
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

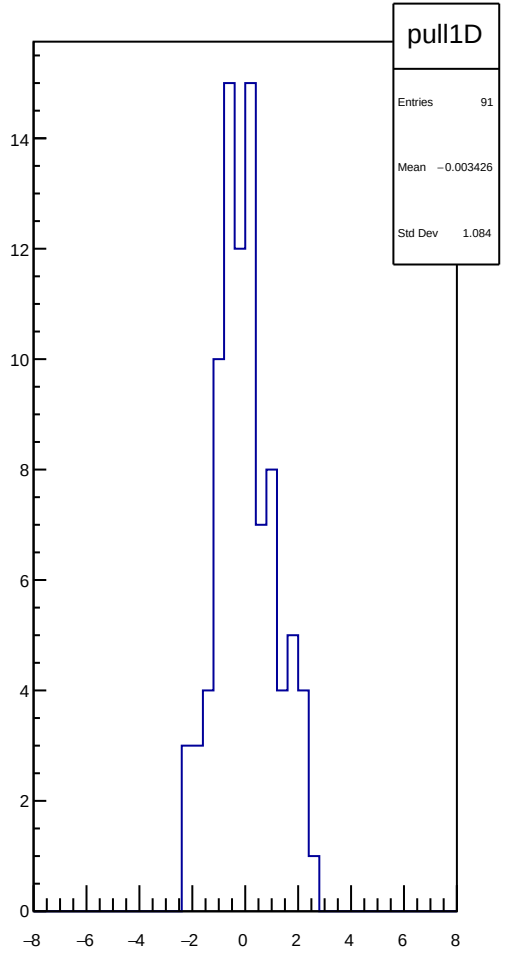

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 6180 / 90
p0 240.2 ± 0.182
340
320
300
280
260
240
220

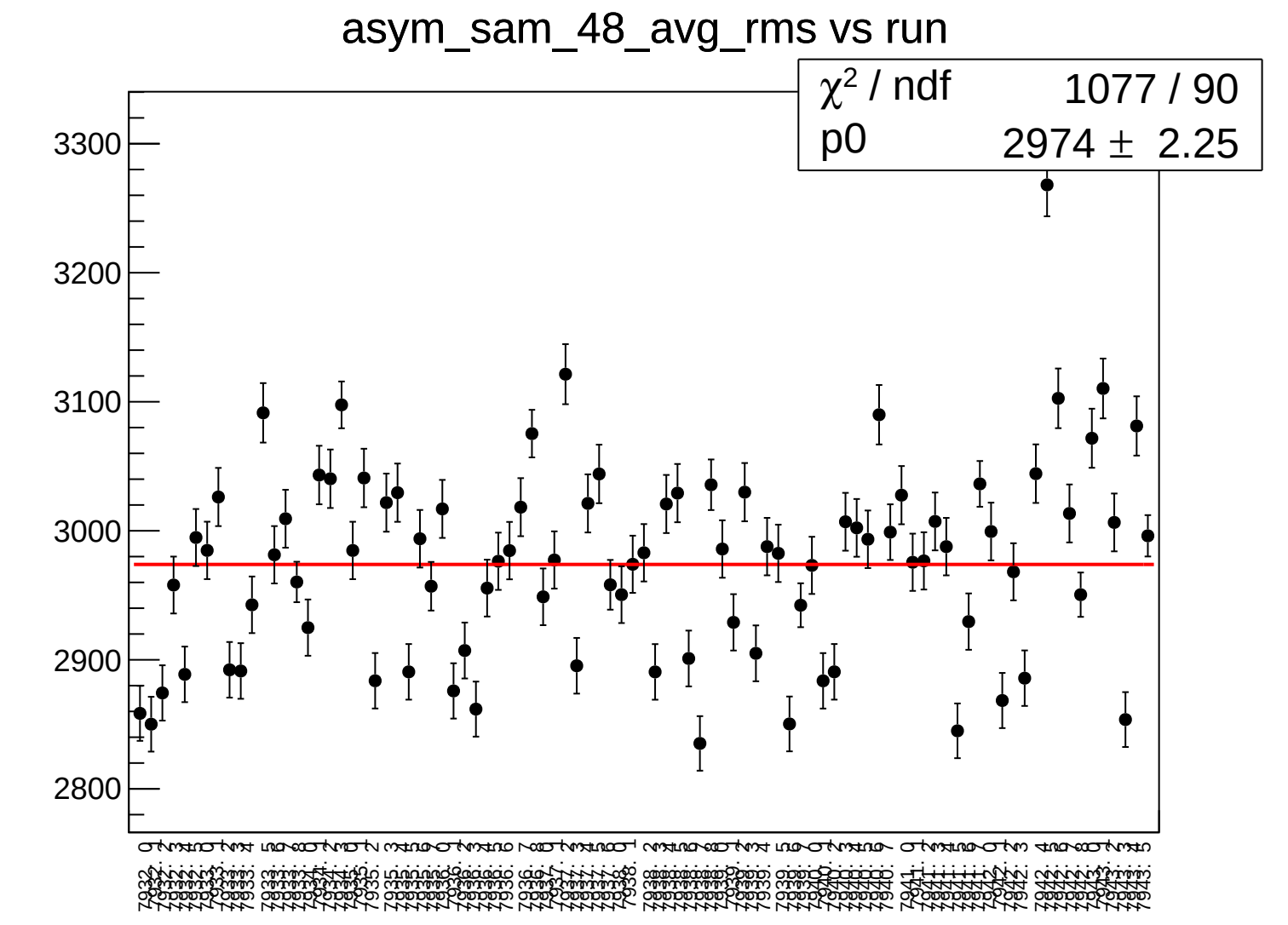

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.1 / 90
p0 −1001 ± 3166
100
50
0
−50
−100
pull
Entries 91
Mean −14.83
Std Dev 0
2
1
0
−1
−2

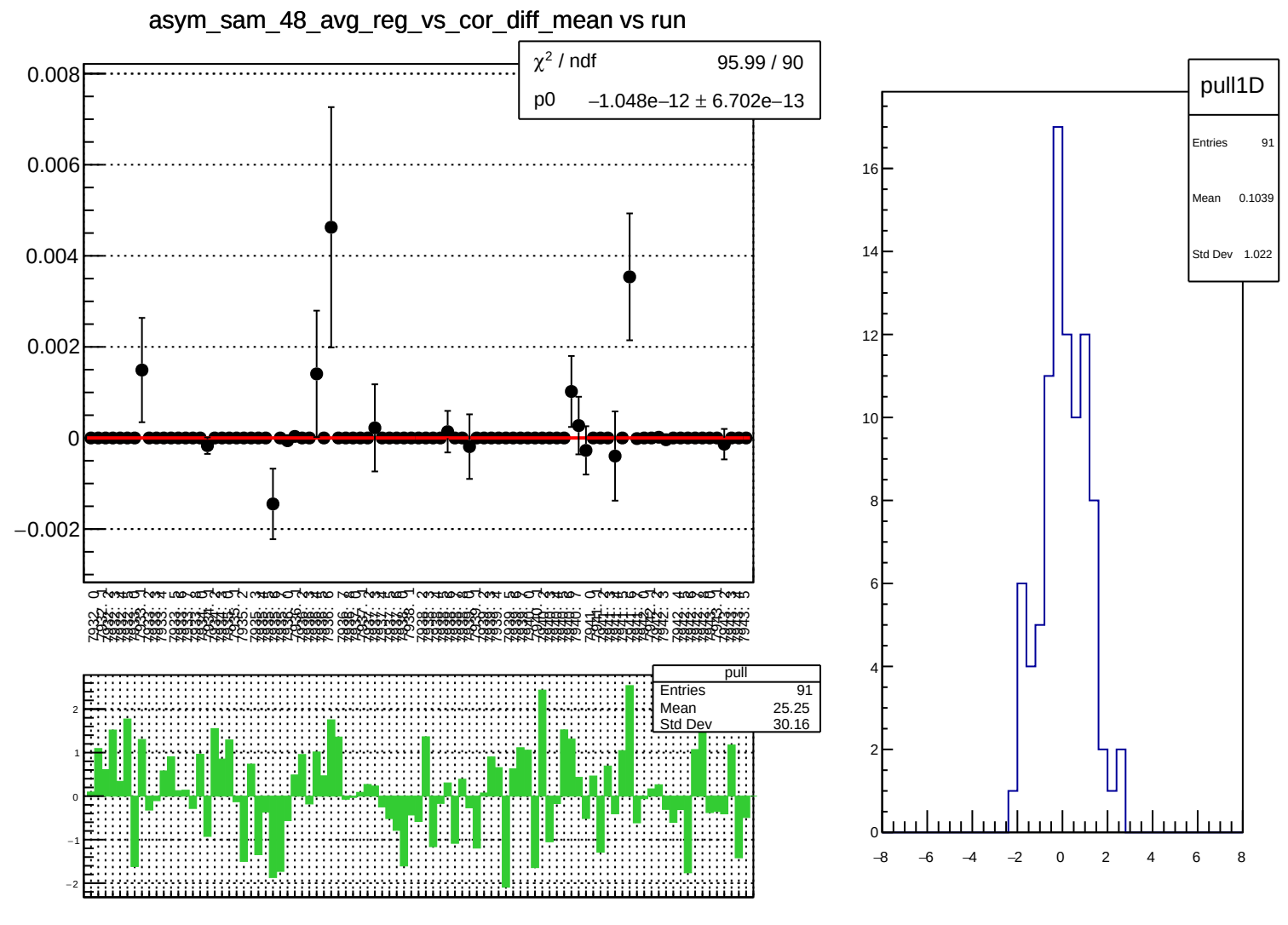

pull1D
Entries 91
Mean 0.00492
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

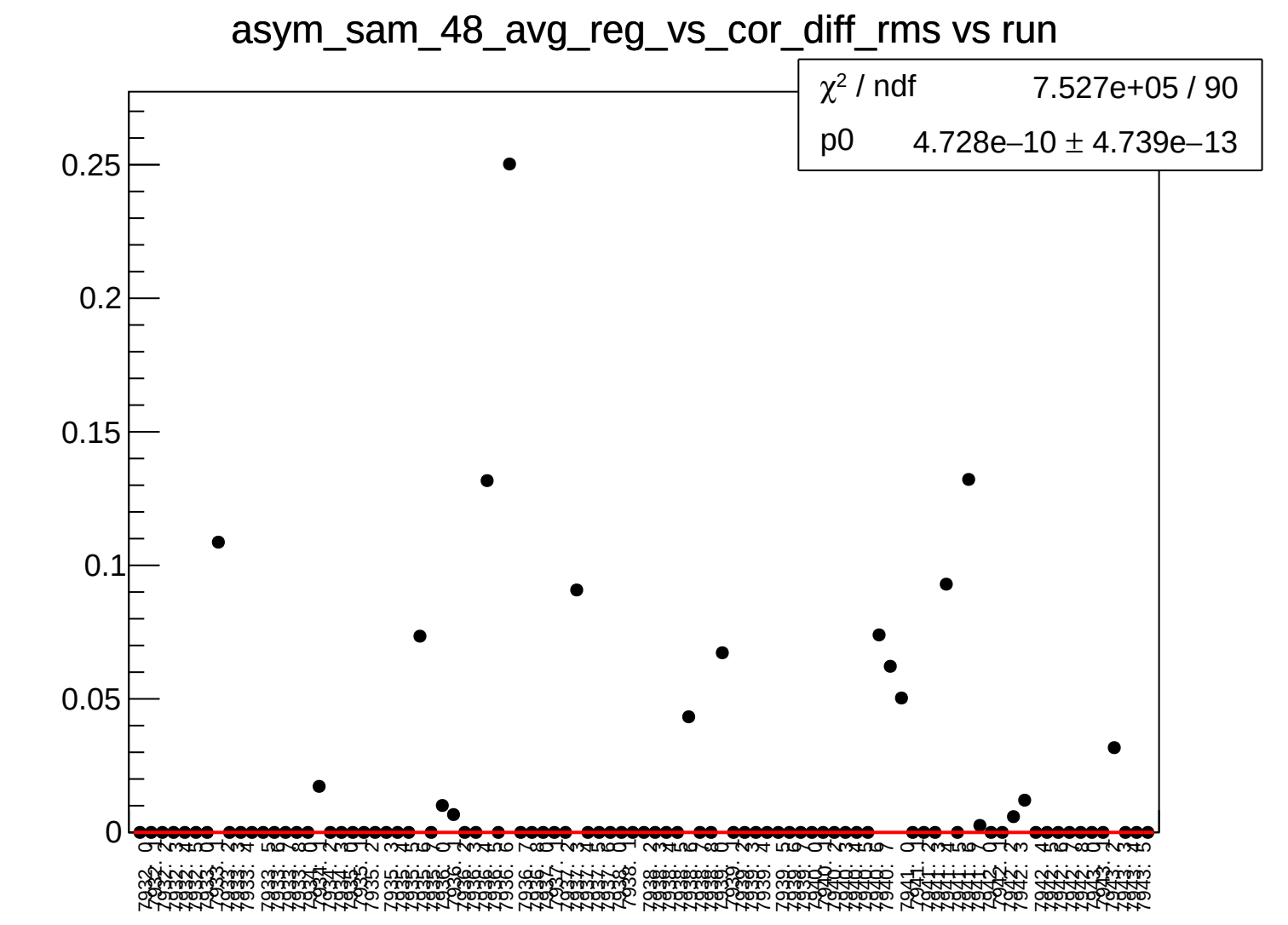

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 1157 / 90
p0 2959 ± 2.239
3400
3300
3200
3100
3000
2900
2800

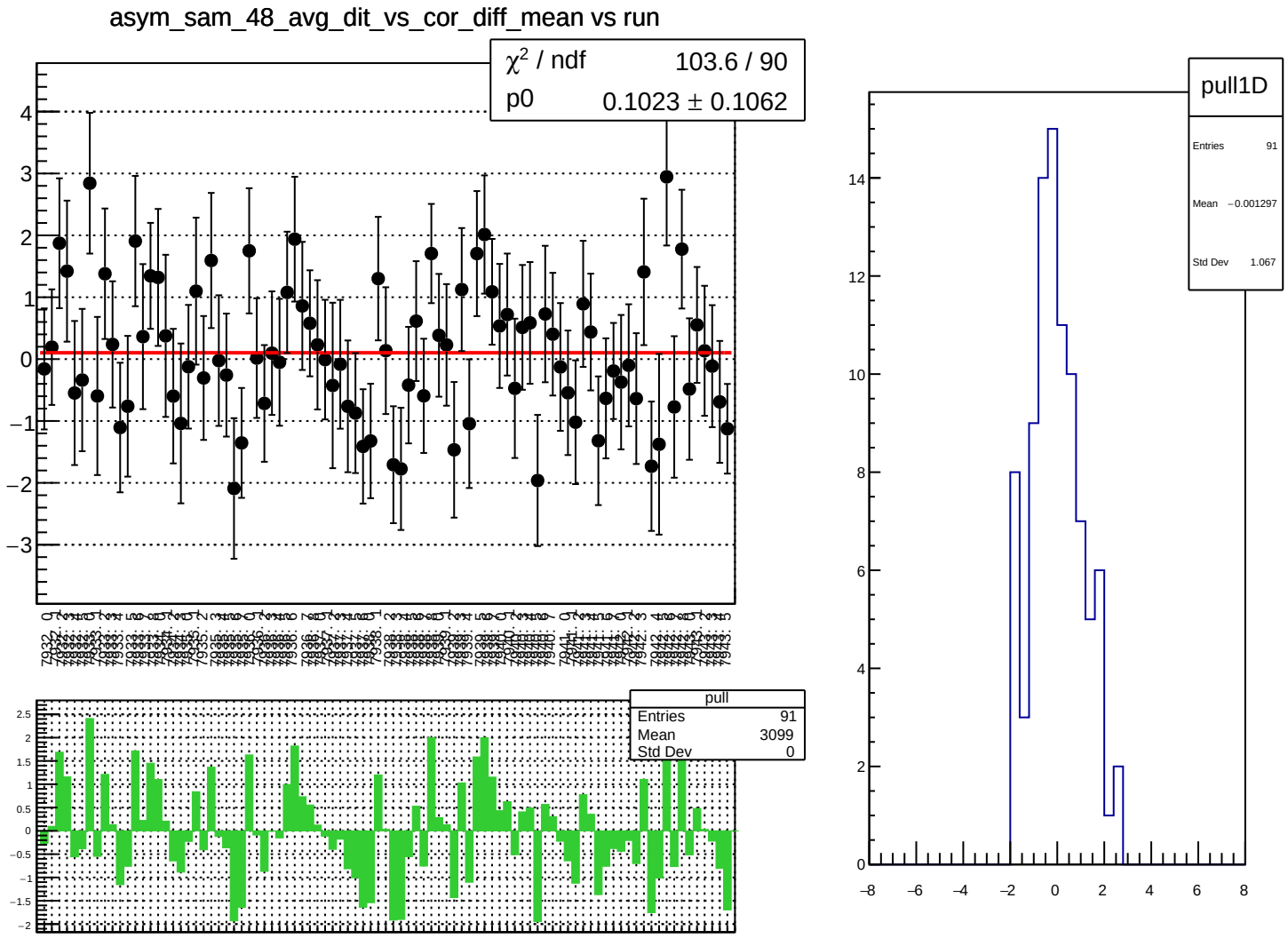

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 106.8 / 90
p0 1777 ± 3182
100
50
0
−50
−100
pull
Entries 91
Mean −37.77
Std Dev 0
2
1
0
−1
−2

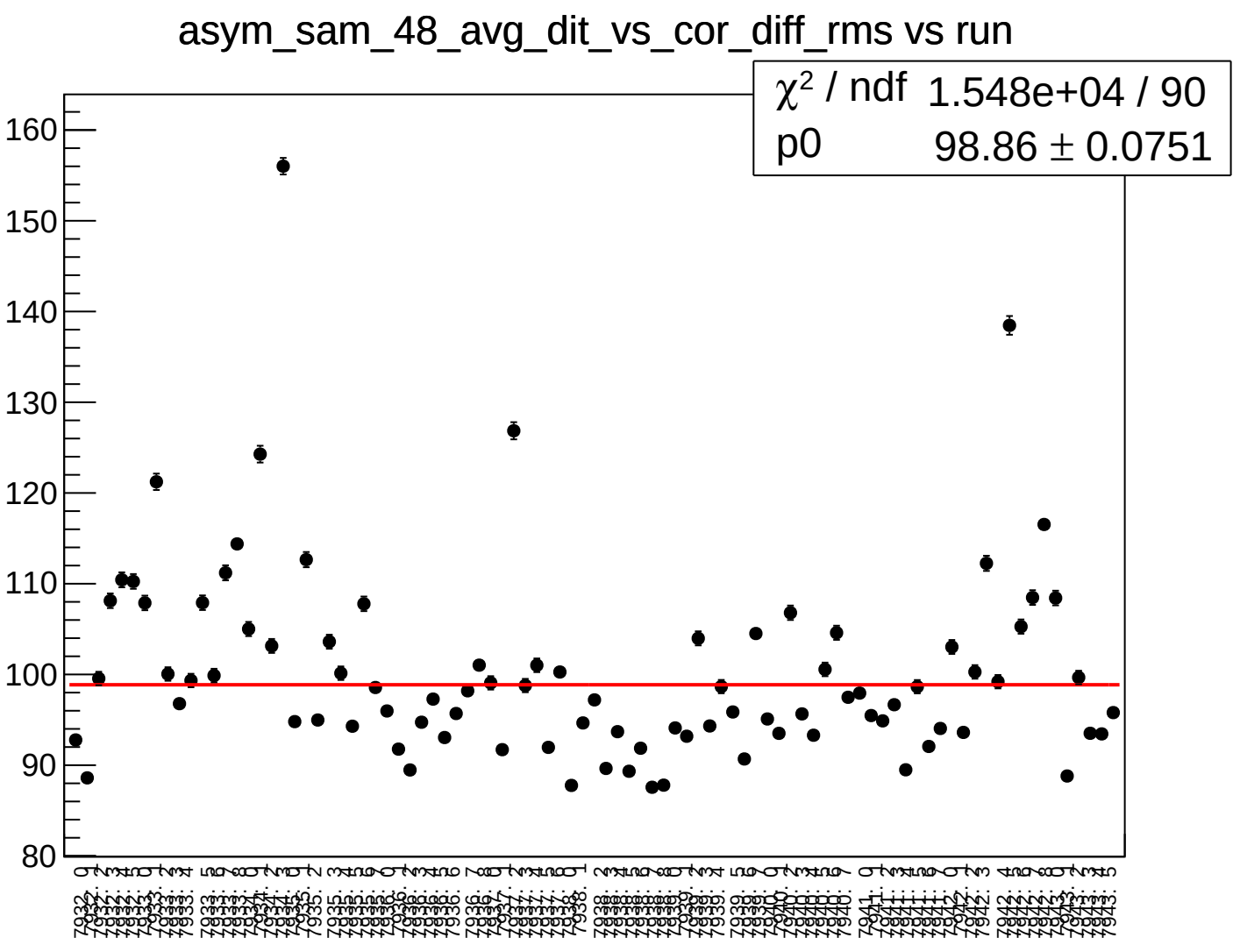

pull1D
Entries 91
Mean −0.003426
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

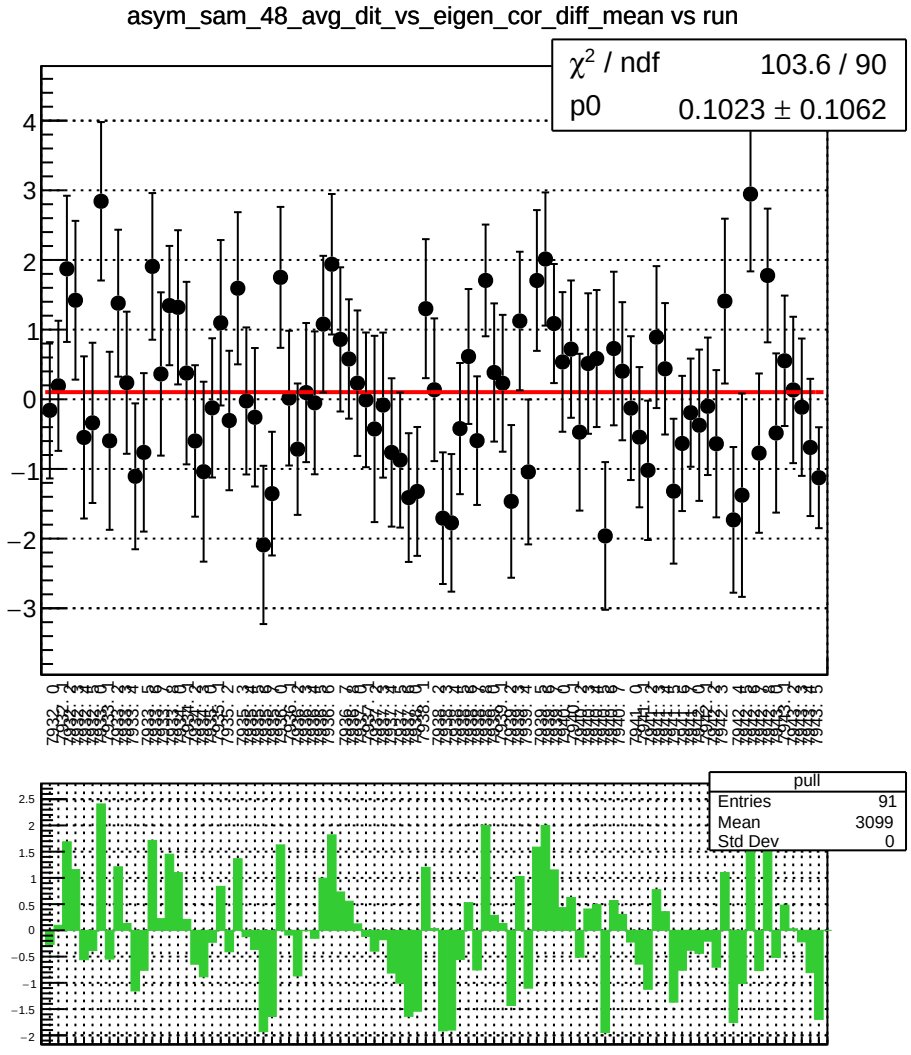

asym_sam_48_avg_rms vs run
χ² / ndf 1077 / 90
p0 2974 ± 2.25
3300
3200
3100
3000
2900
2800

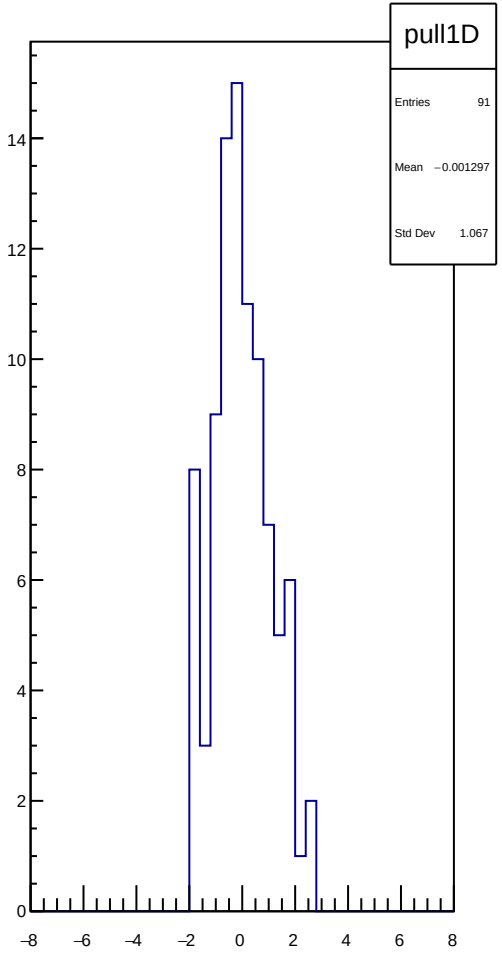

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.99 / 90
p0 −1.048e−12 ± 6.702e−13
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 91
Mean 25.25
Std Dev 30.16
pull1D
Entries 91
Mean 0.1039
Std Dev 1.022

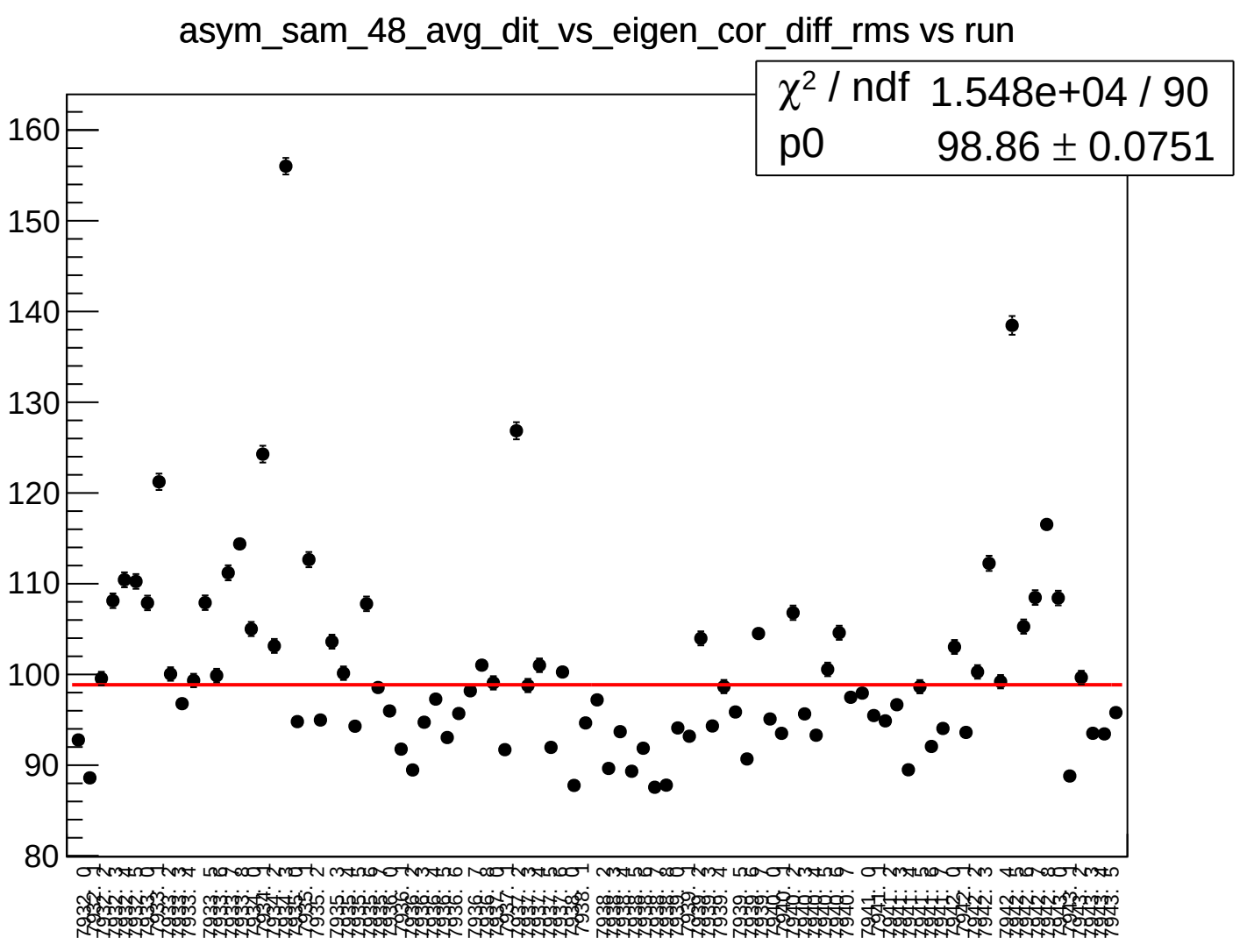

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.527e+05 / 90
p0 4.728e−10 ± 4.739e−13
0.25
0.2
0.15
0.1
0.05
0

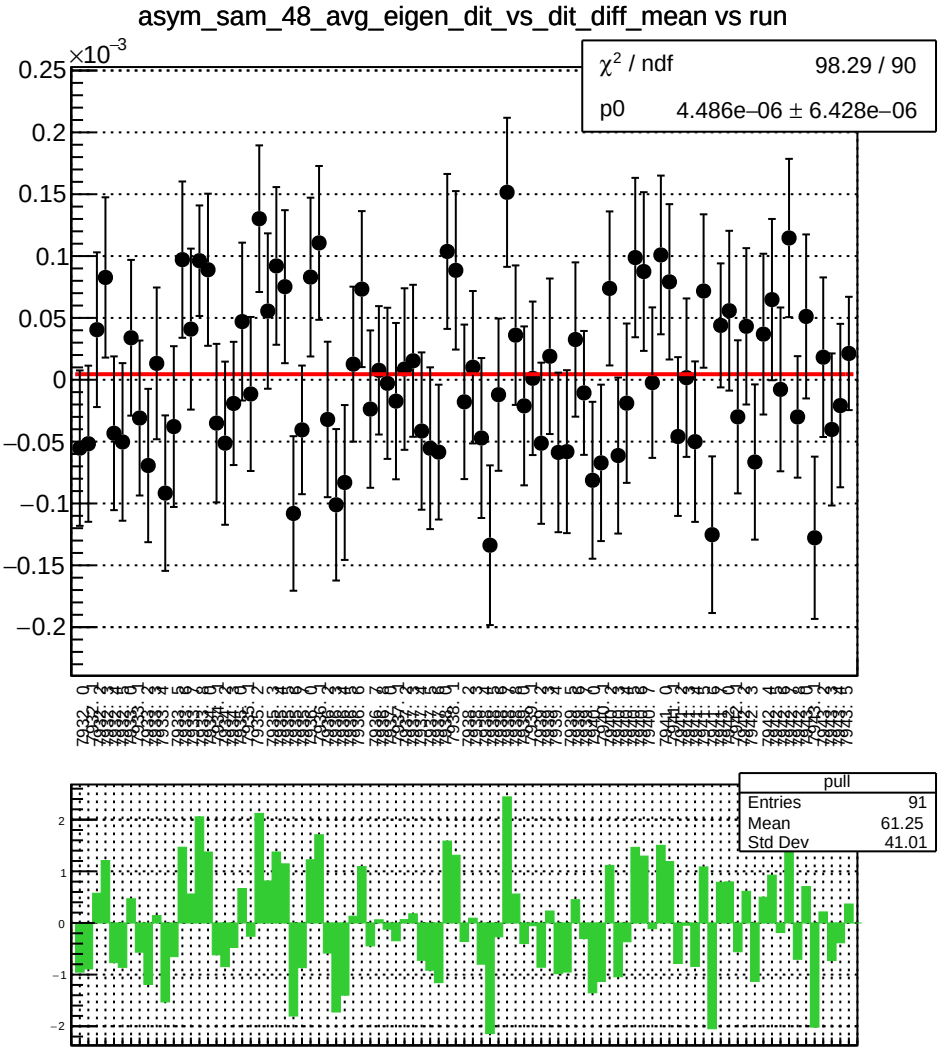

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.1023 ± 0.1062
pull
Entries 91
Mean 3099
Std Dev 0
pull1D
Entries 91
Mean −0.001297
Std Dev 1.067

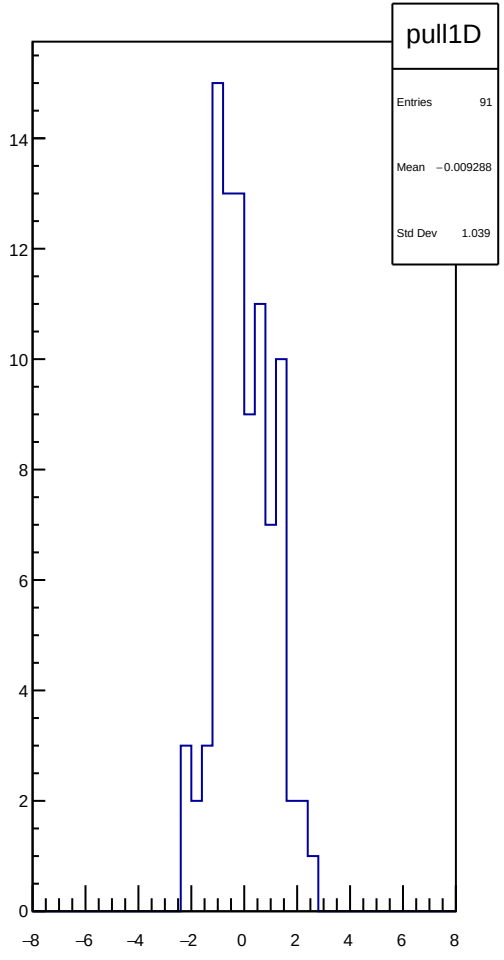

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.548e+04 / 90
p0 98.86 ± 0.0751
160
150
140
130
120
110
100
90
80

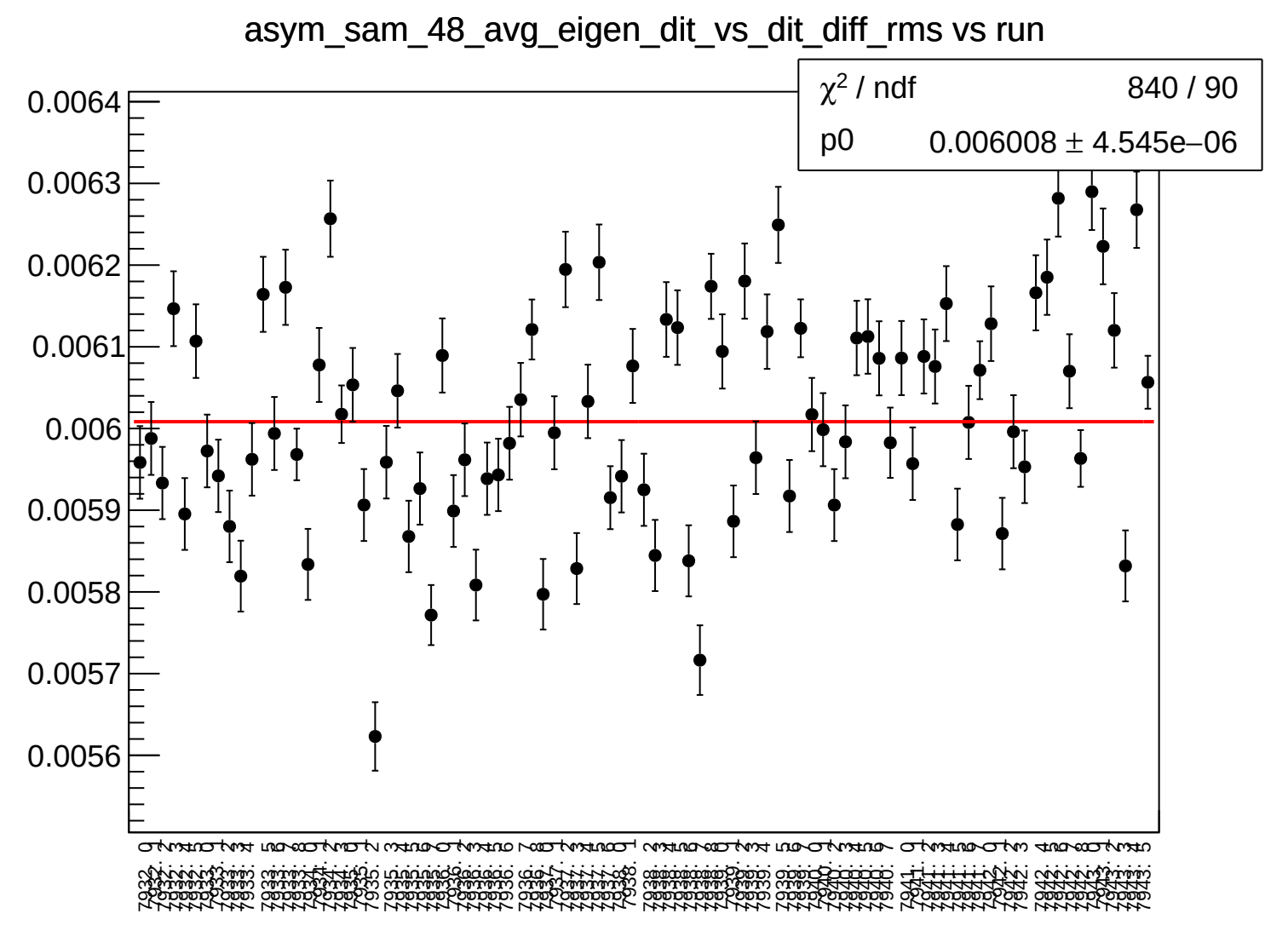

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.1023 ± 0.1062
pull
Entries 91
Mean 3099
Std Dev 0

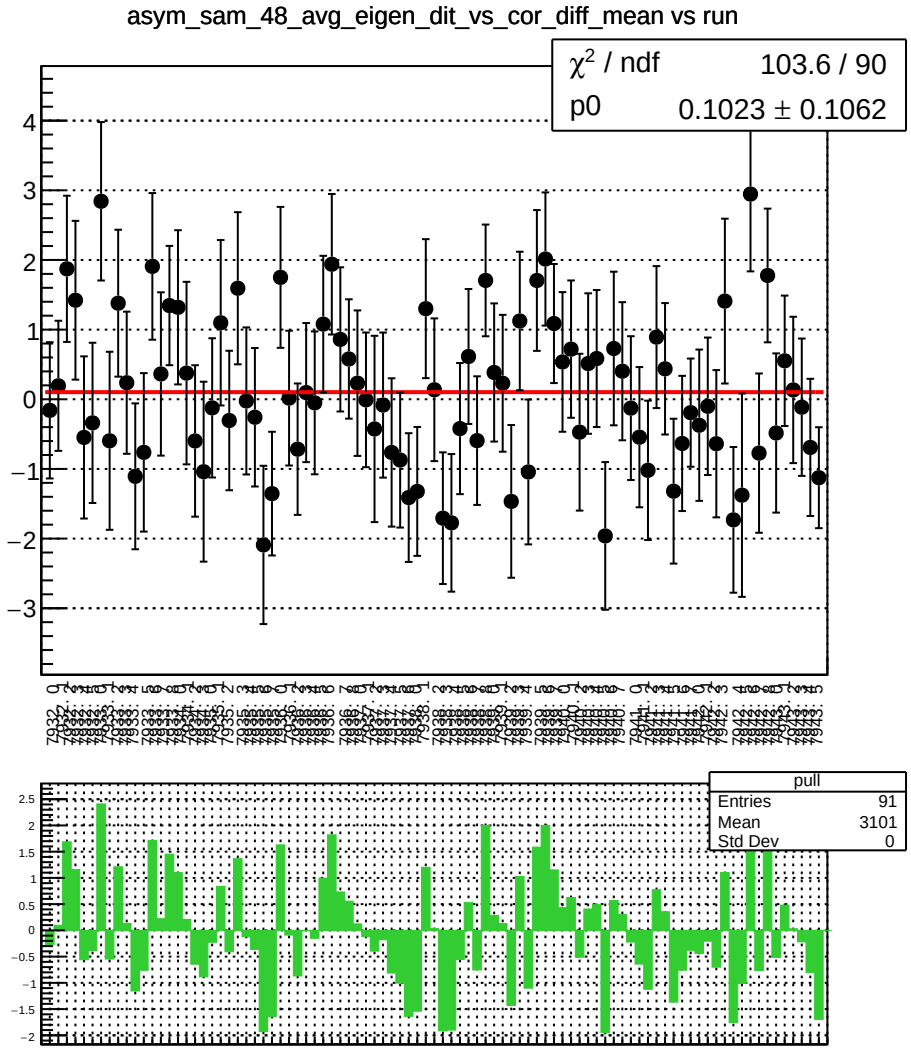

pull1D
Entries 91
Mean −0.001297
Std Dev 1.067

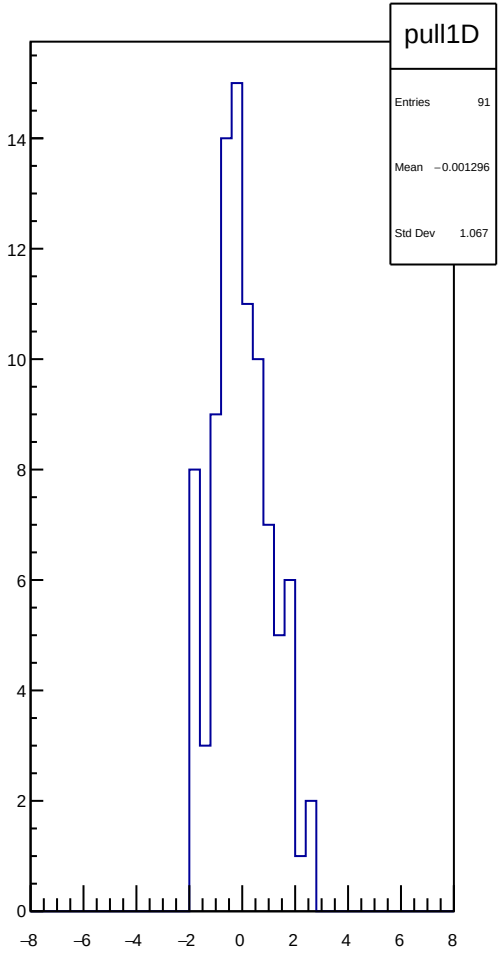

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.548e+04 / 90
p0 98.86 ± 0.0751
160
150
140
130
120
110
100
90
80

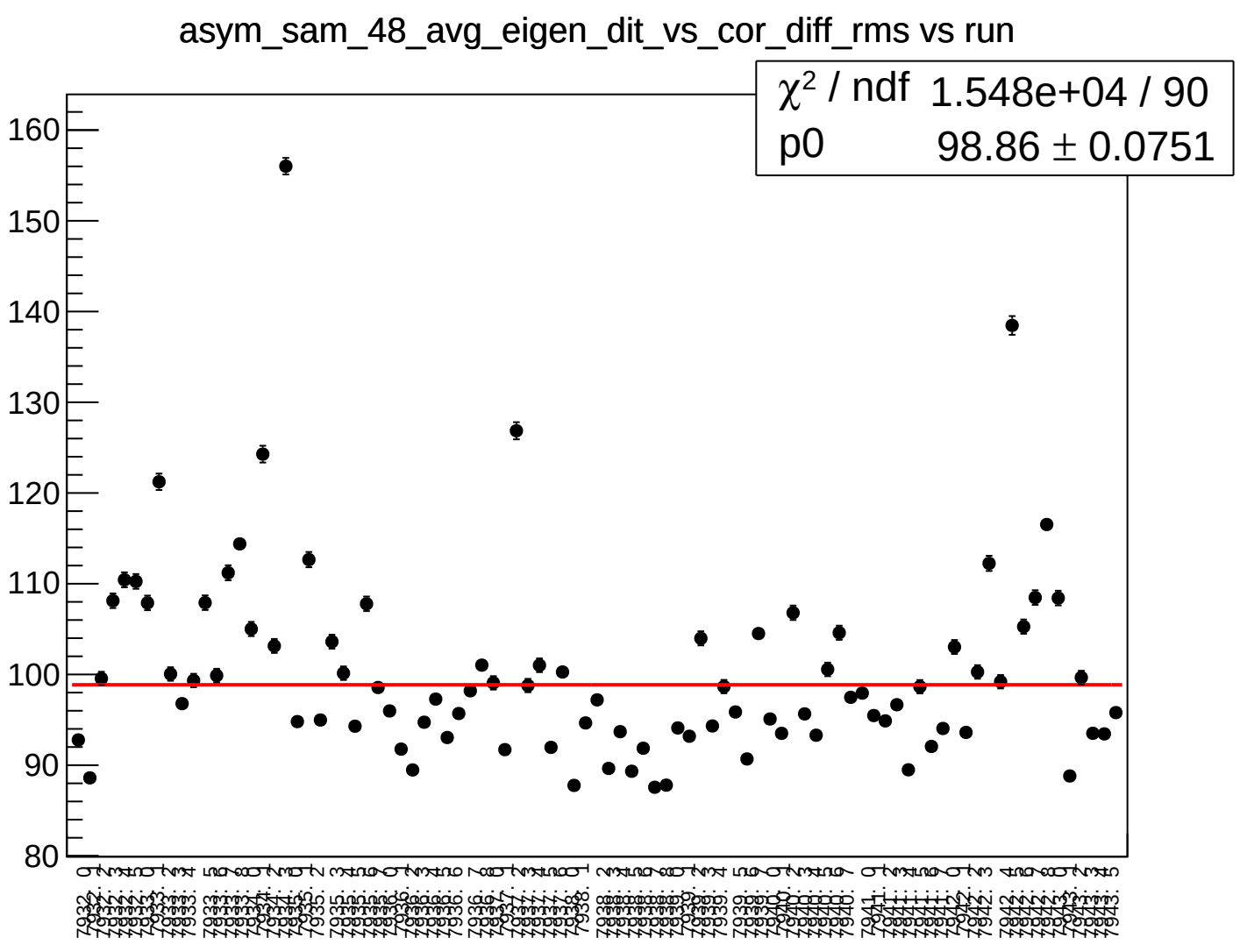

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.29 / 90
p0 4.486e−06 ± 6.428e−06
pull
Entries 91
Mean 61.25
Std Dev 41.01

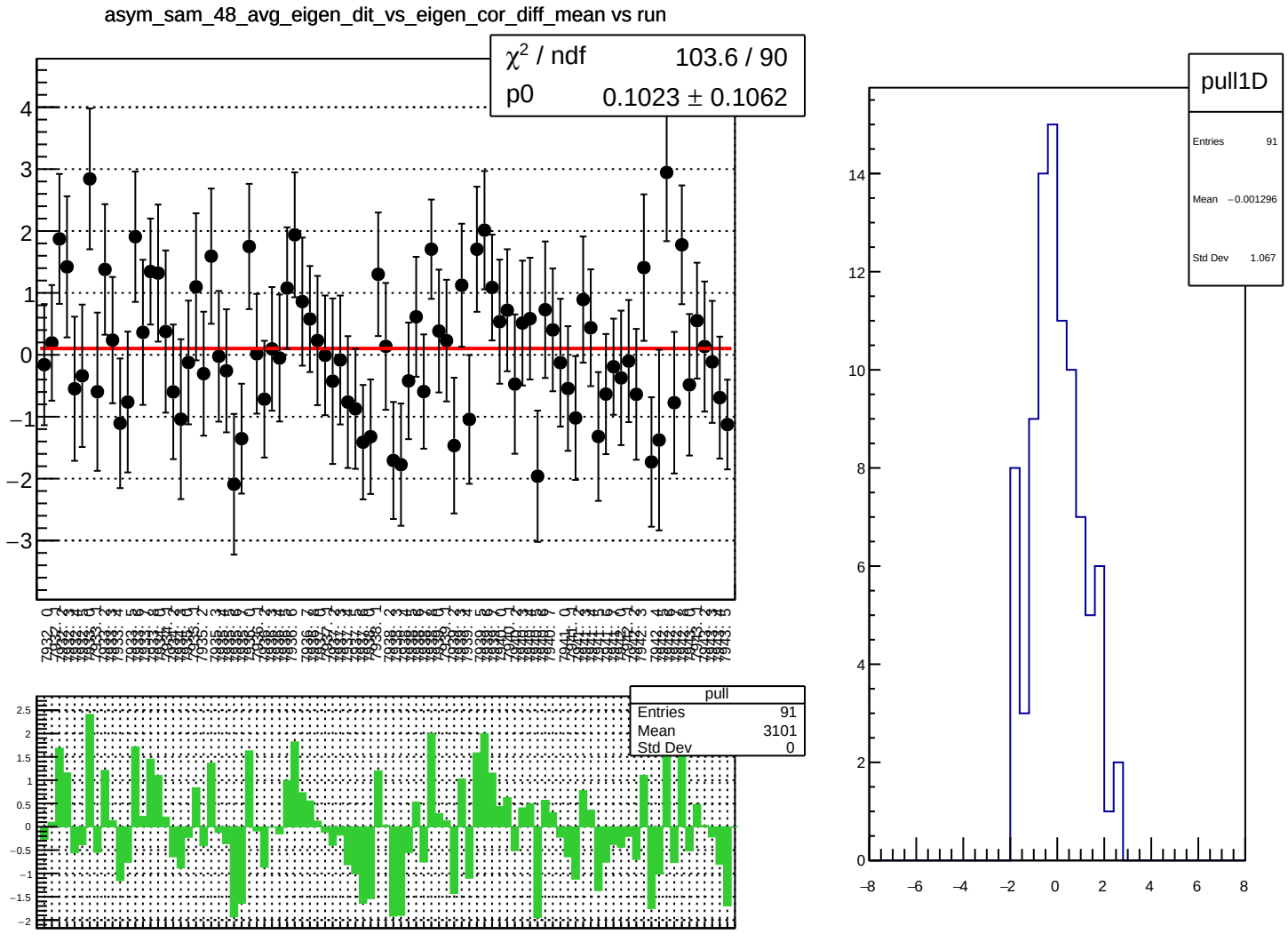

pull1D
Entries 91
Mean −0.009288
Std Dev 1.039

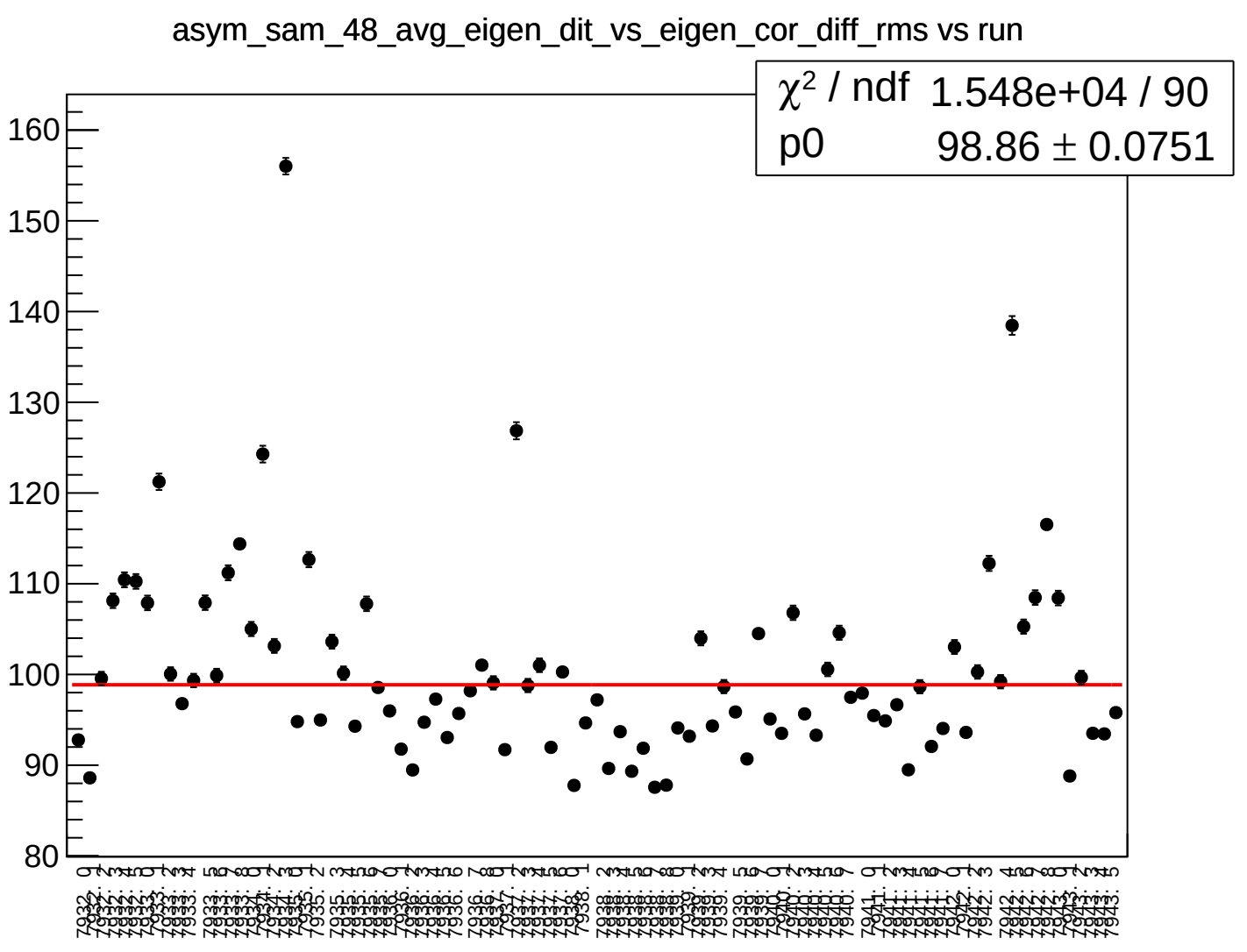

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 840 / 90
p0 0.006008 ± 4.545e−06
0.0064
0.0063
0.0062
0.0061
0.006
0.0059
0.0058
0.0057
0.0056

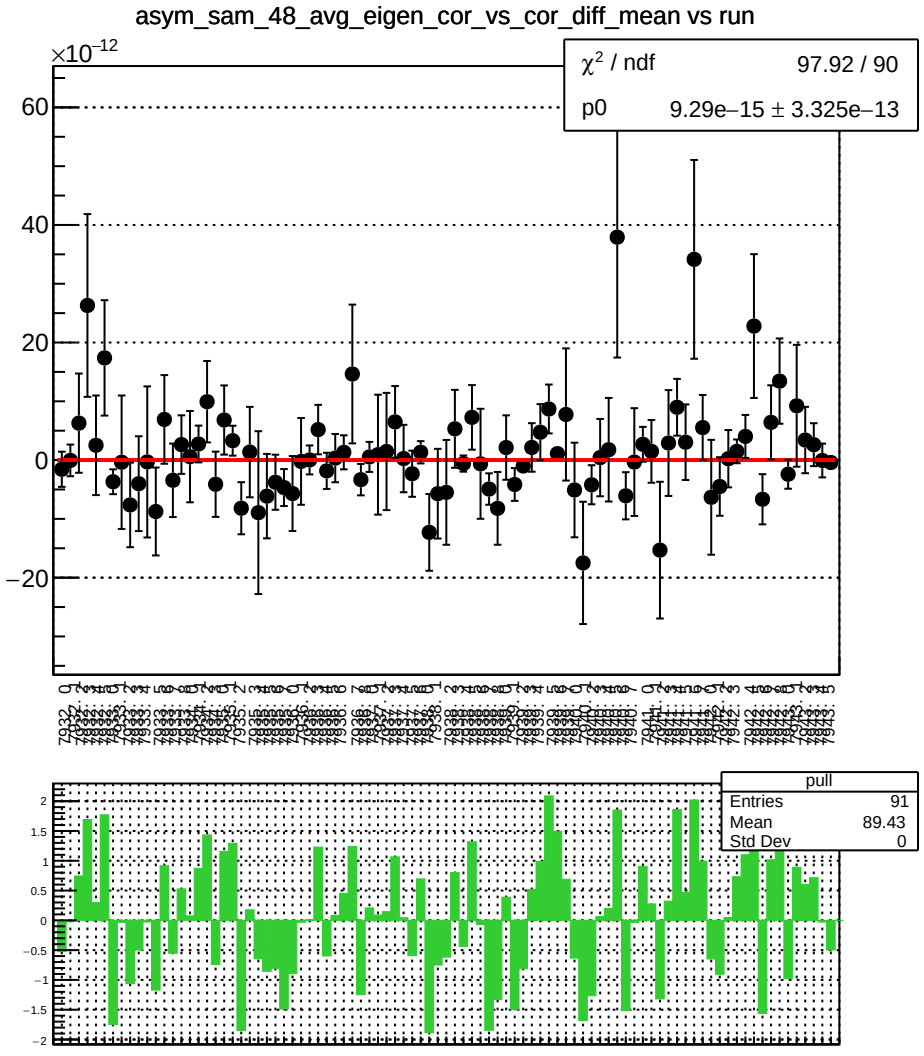

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.1023 ± 0.1062
pull
Entries 91
Mean 3101
Std Dev 0

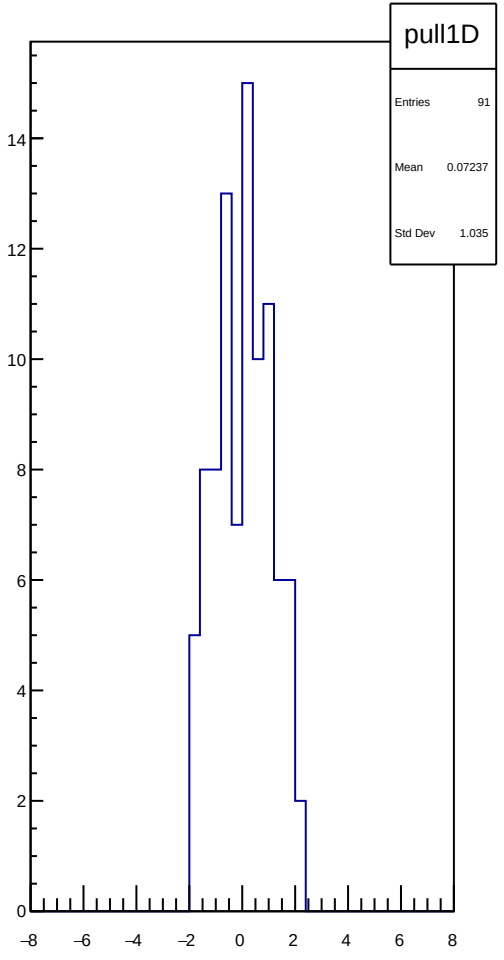

pull1D
Entries 91
Mean −0.001296
Std Dev 1.067

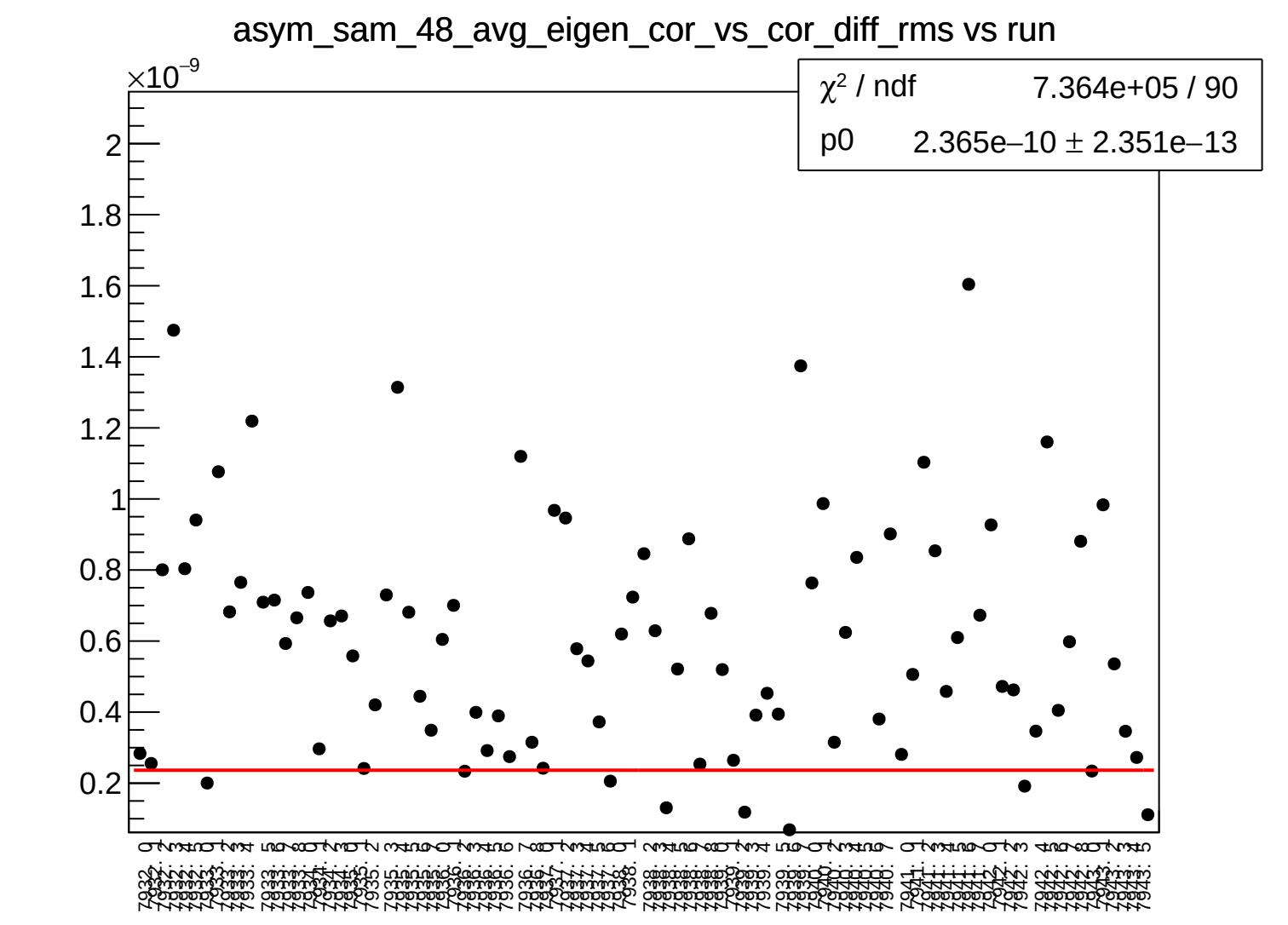

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.548e+04 / 90
p0 98.86 ± 0.0751
160
150
140
130
120
110
100
90
80

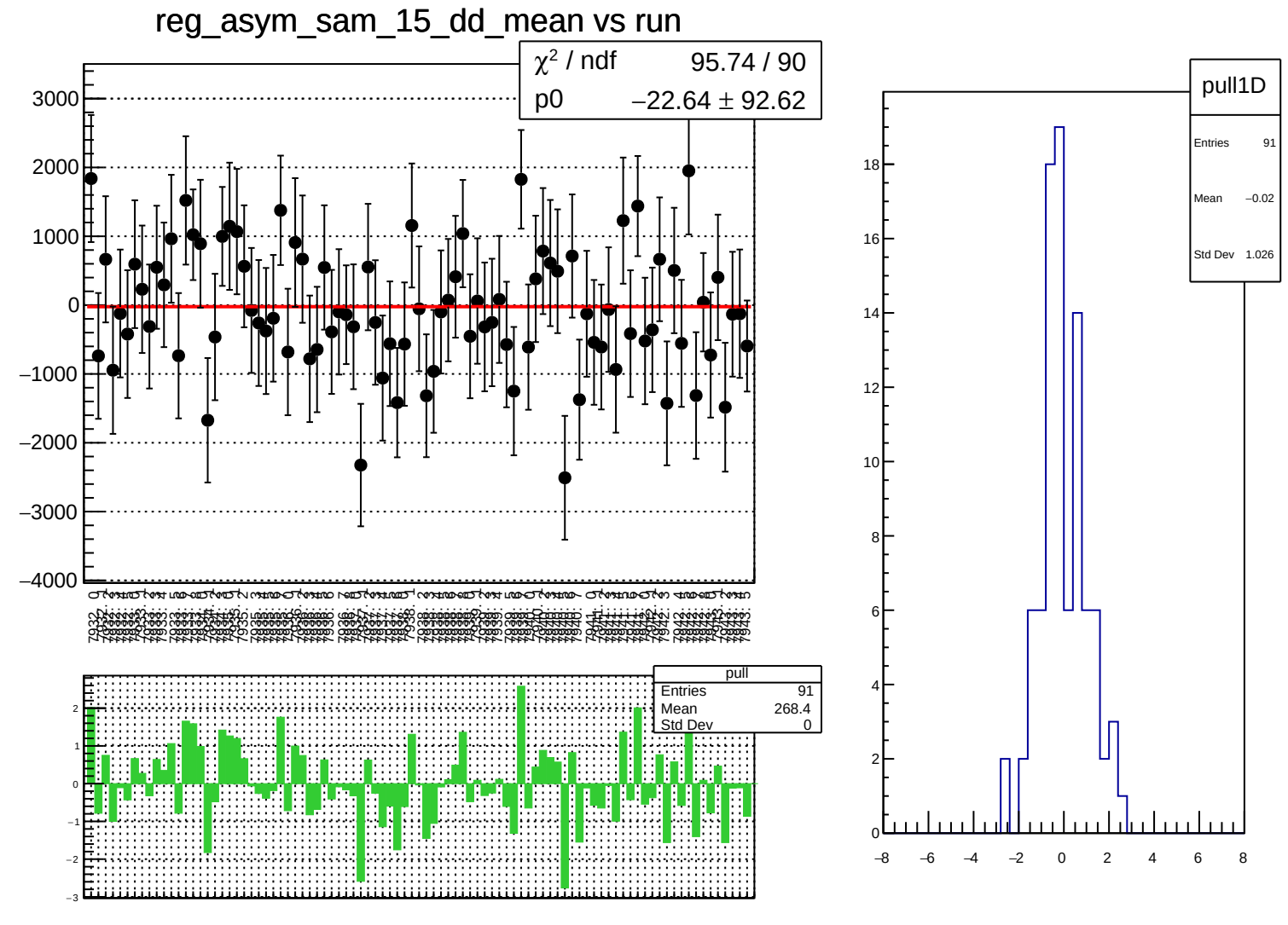

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 90
p0 0.1023 ± 0.1062
pull
Entries 91
Mean 3101
Std Dev 0
pull1D
Entries 91
Mean −0.001296
Std Dev 1.067

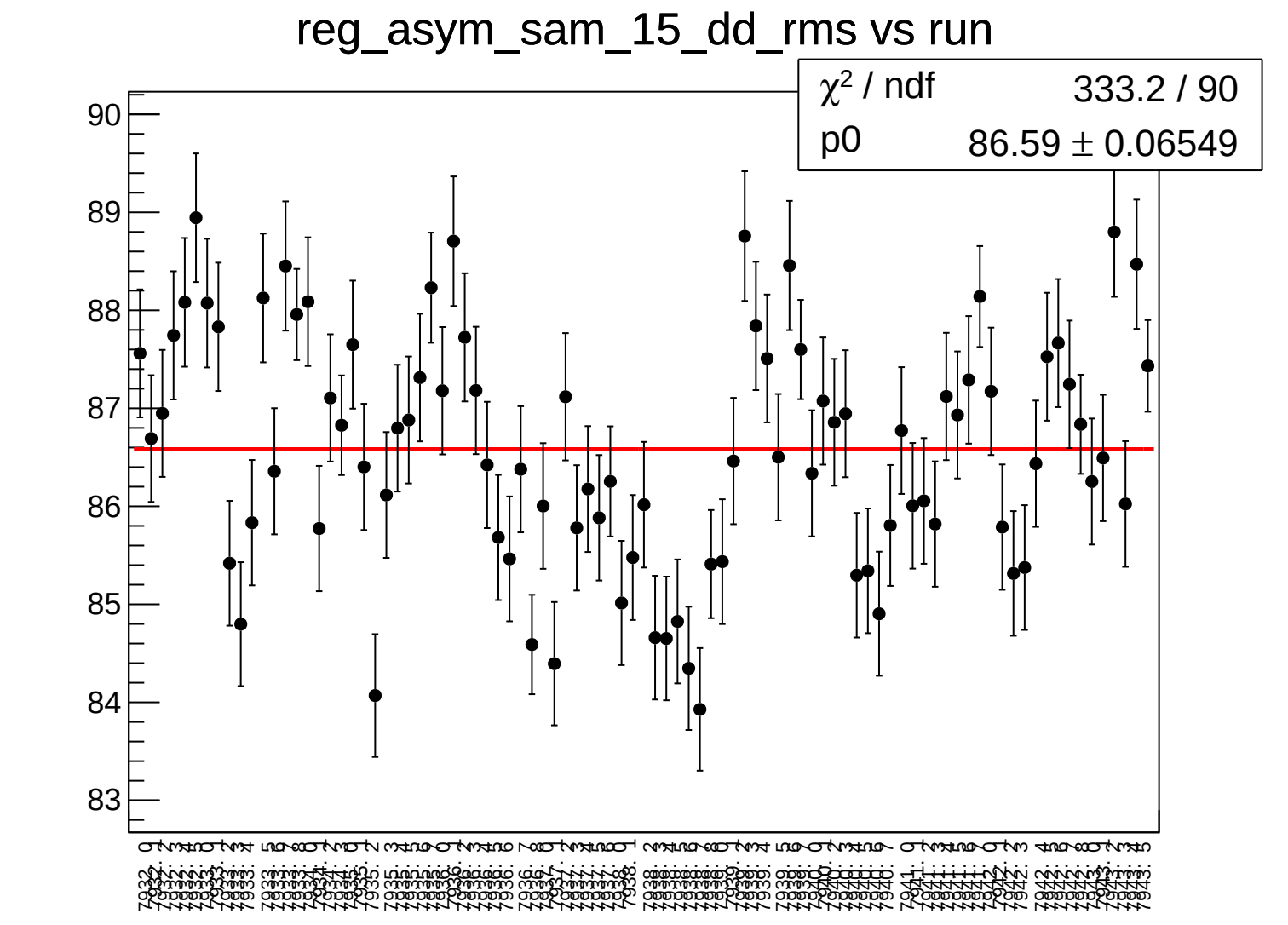

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.548e+04 / 90
p0 98.86 ± 0.0751
160
150
140
130
120
110
100
90
80

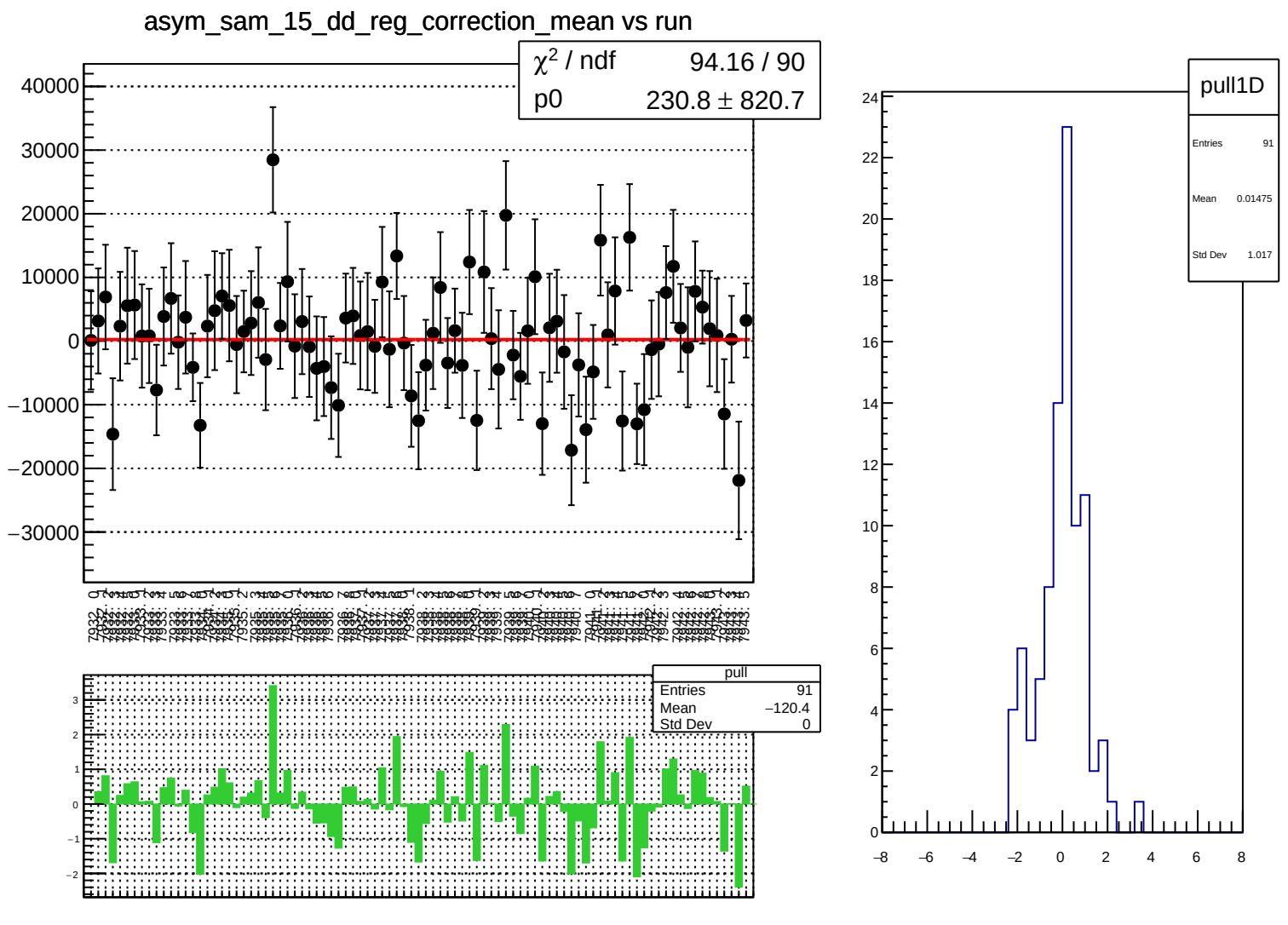

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.92 / 90
p0 9.29e−15 ± 3.325e−13
pull
Entries 91
Mean 89.43
Std Dev 0

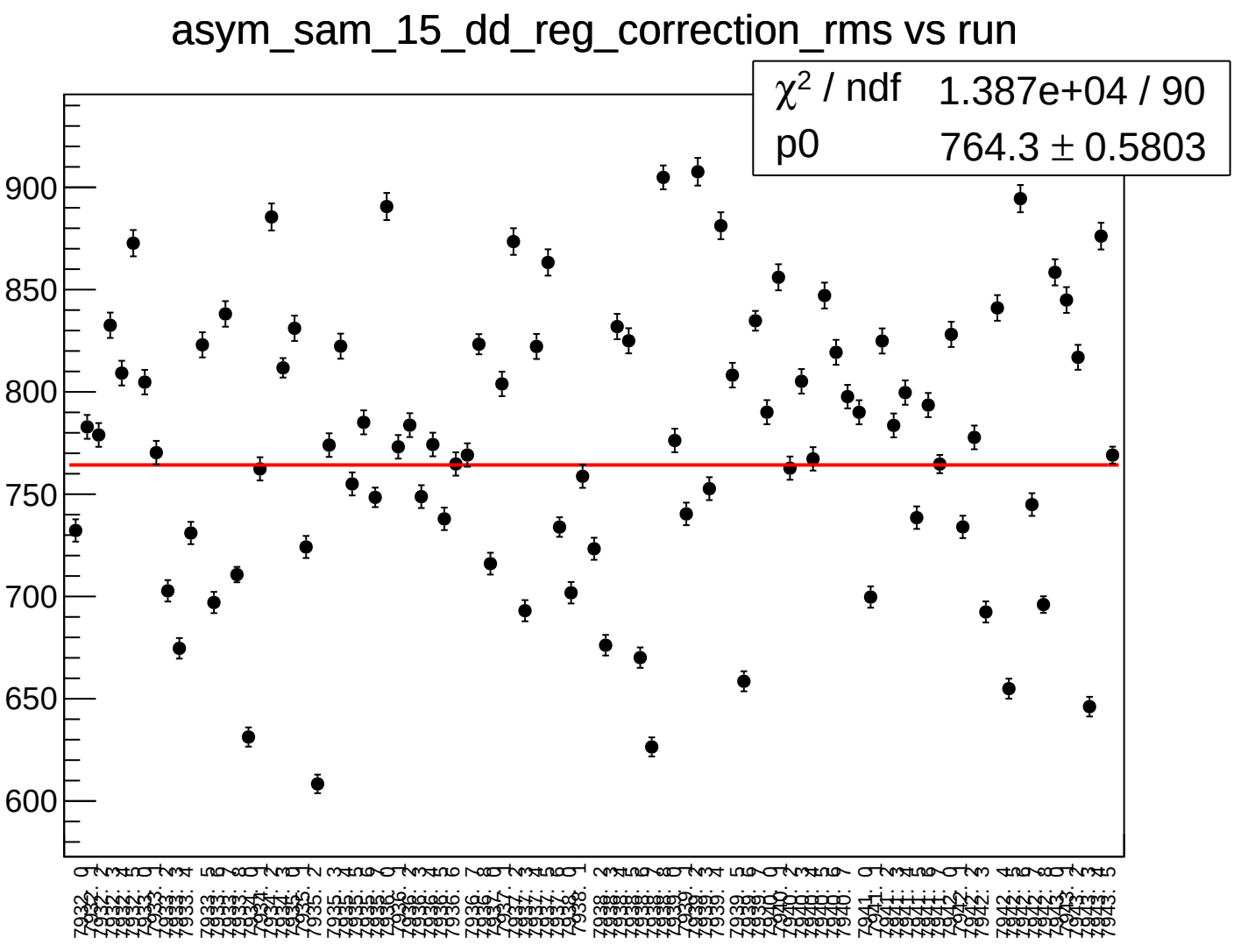

pull1D
Entries 91
Mean 0.07237
Std Dev 1.035

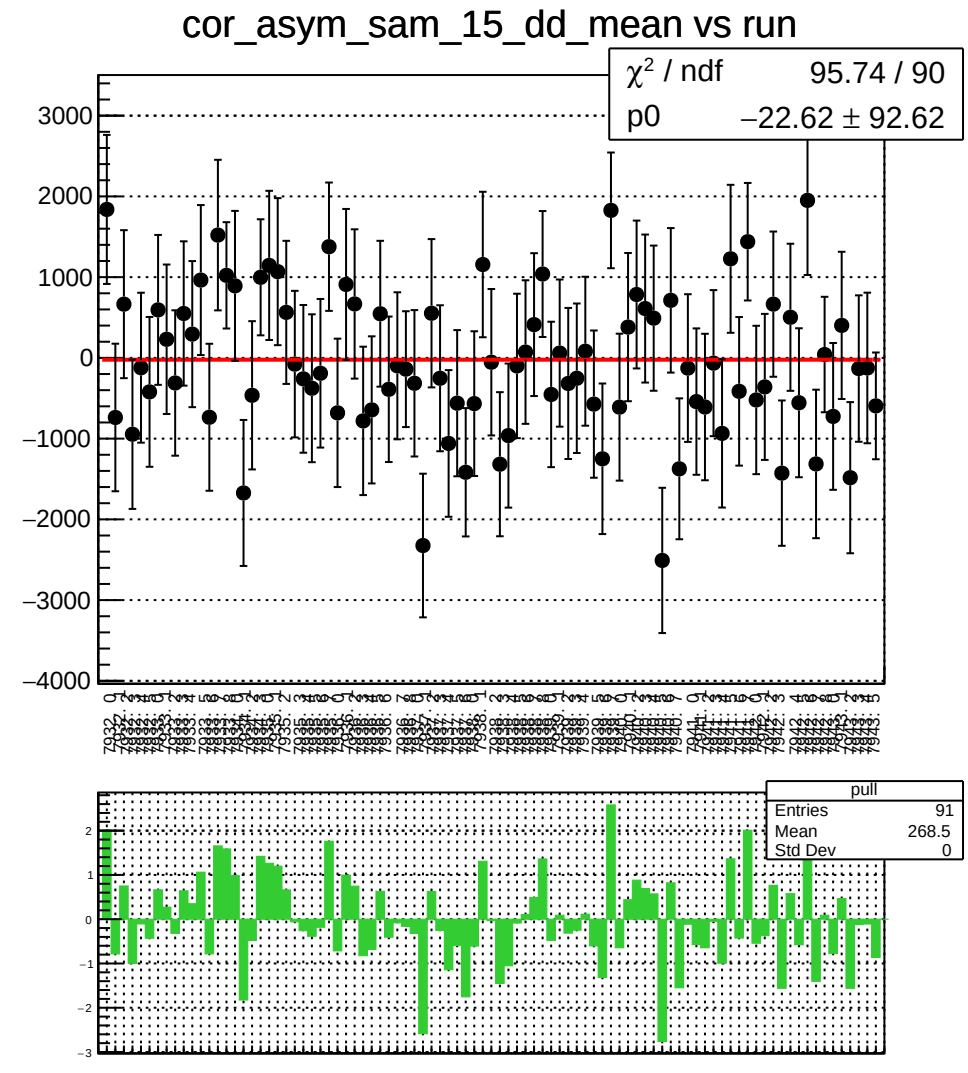

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.364e+05 / 90
p0 2.365e−10 ± 2.351e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

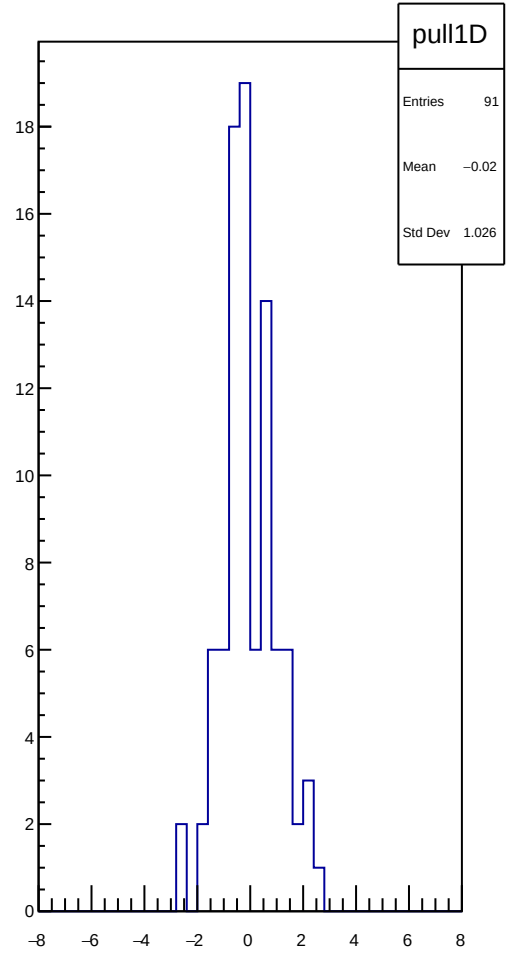

reg_asym_sam_15_dd_mean vs run
χ² / ndf 95.74 / 90
p0 −22.64 ± 92.62
pull
Entries 91
Mean 268.4
Std Dev 0
pull1D
Entries 91
Mean −0.02
Std Dev 1.026

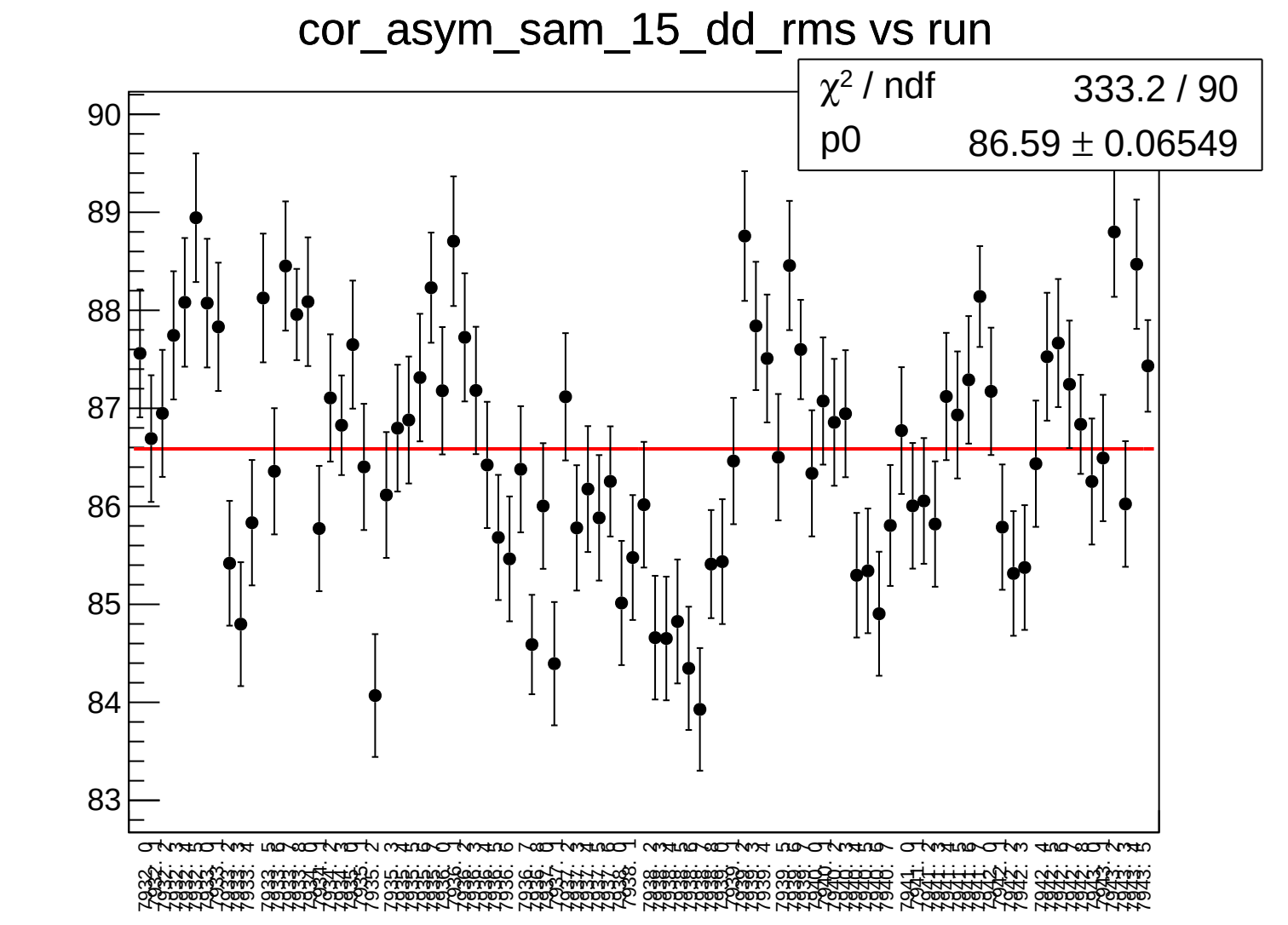

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 333.2 / 90
p0 86.59 ± 0.06549
90
89
88
87
86
85
84
83

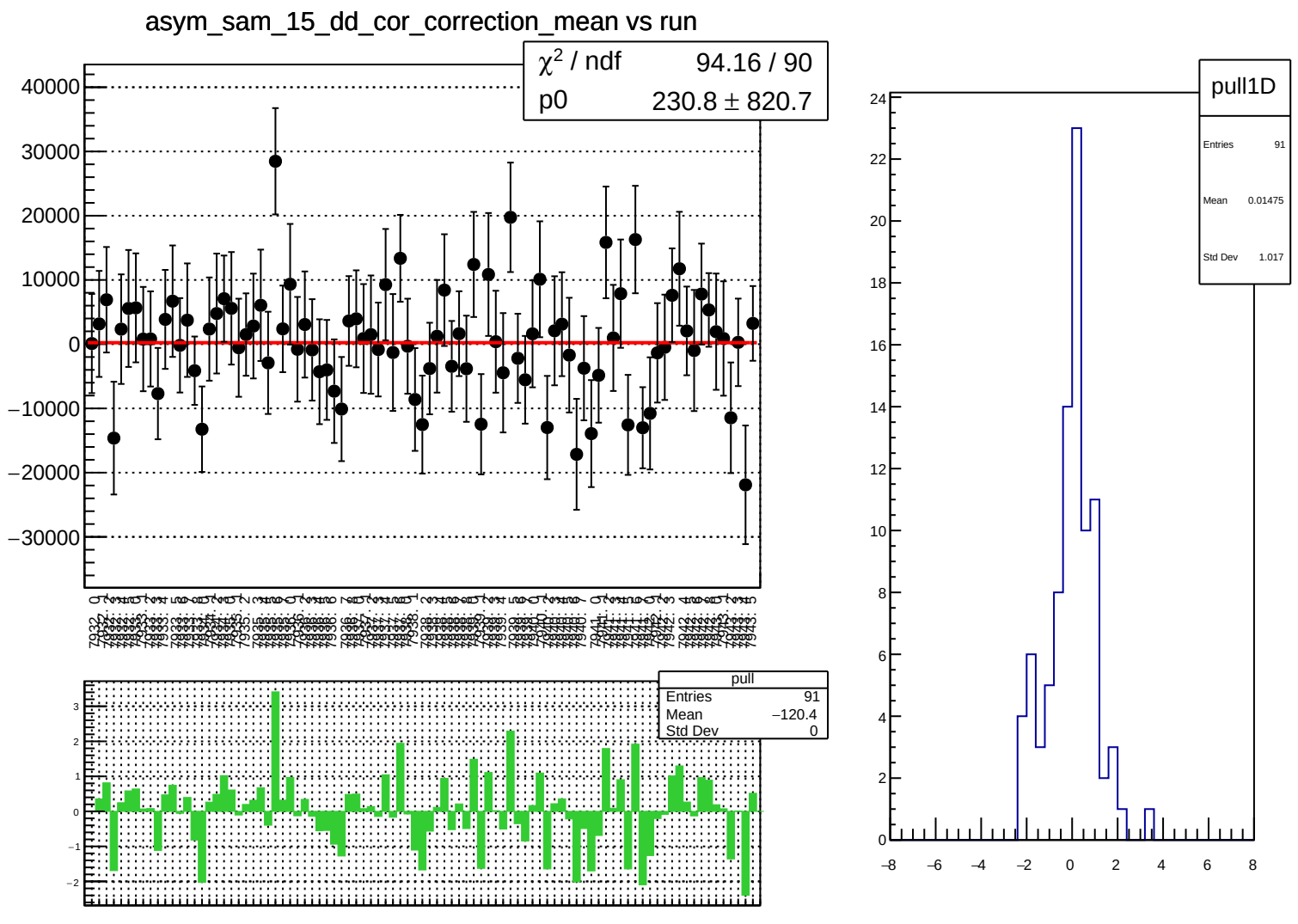

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 94.16 / 90
p0 230.8 ± 820.7
pull
Entries 91
Mean −120.4
Std Dev 0
pull1D
Entries 91
Mean 0.01475
Std Dev 1.017

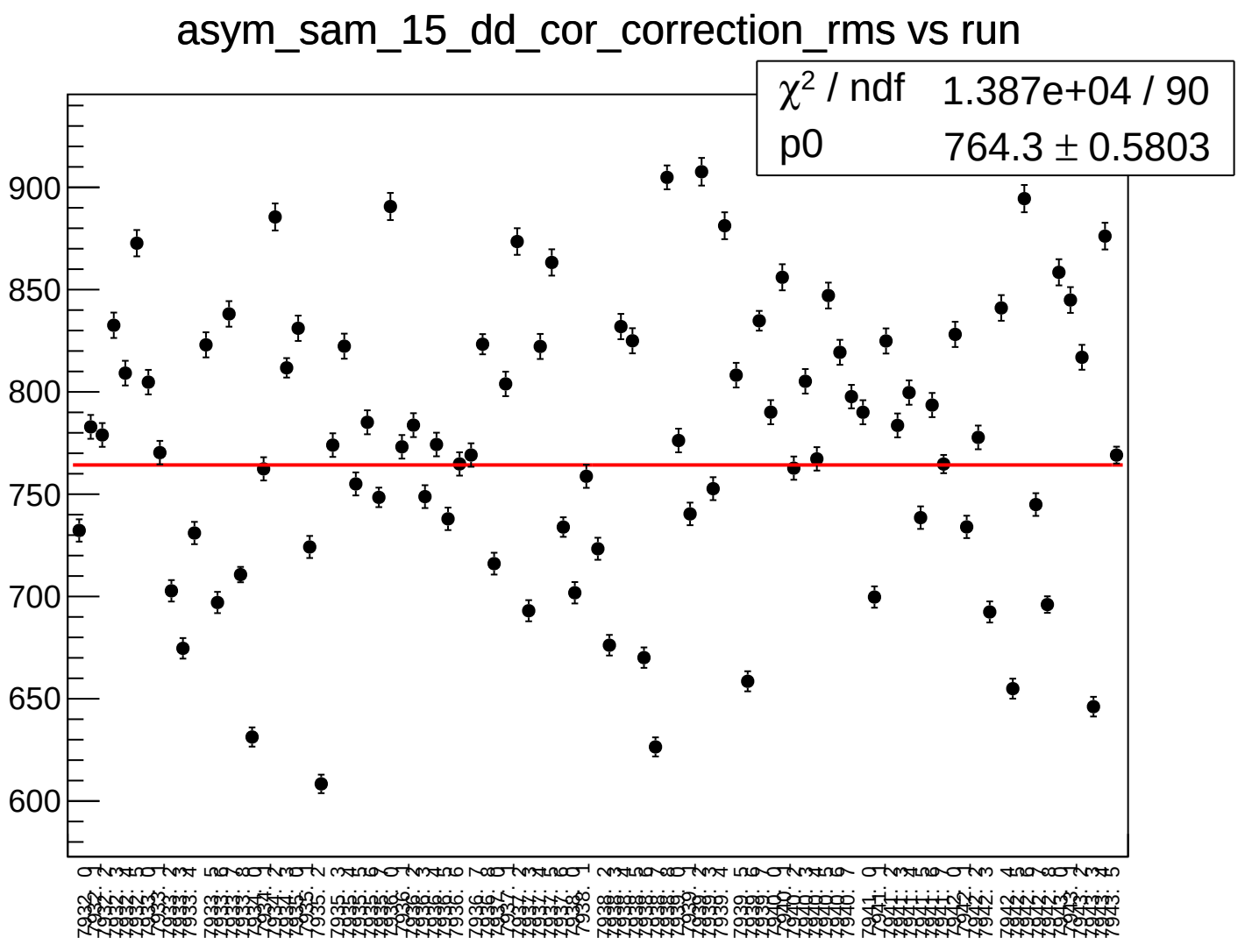

asym_sam_15_dd_reg_correction_rms vs run
χ^2 / ndf 1.387e+04 / 90
p0 764.3 ± 0.5803
900
850
800
750
700
650
600

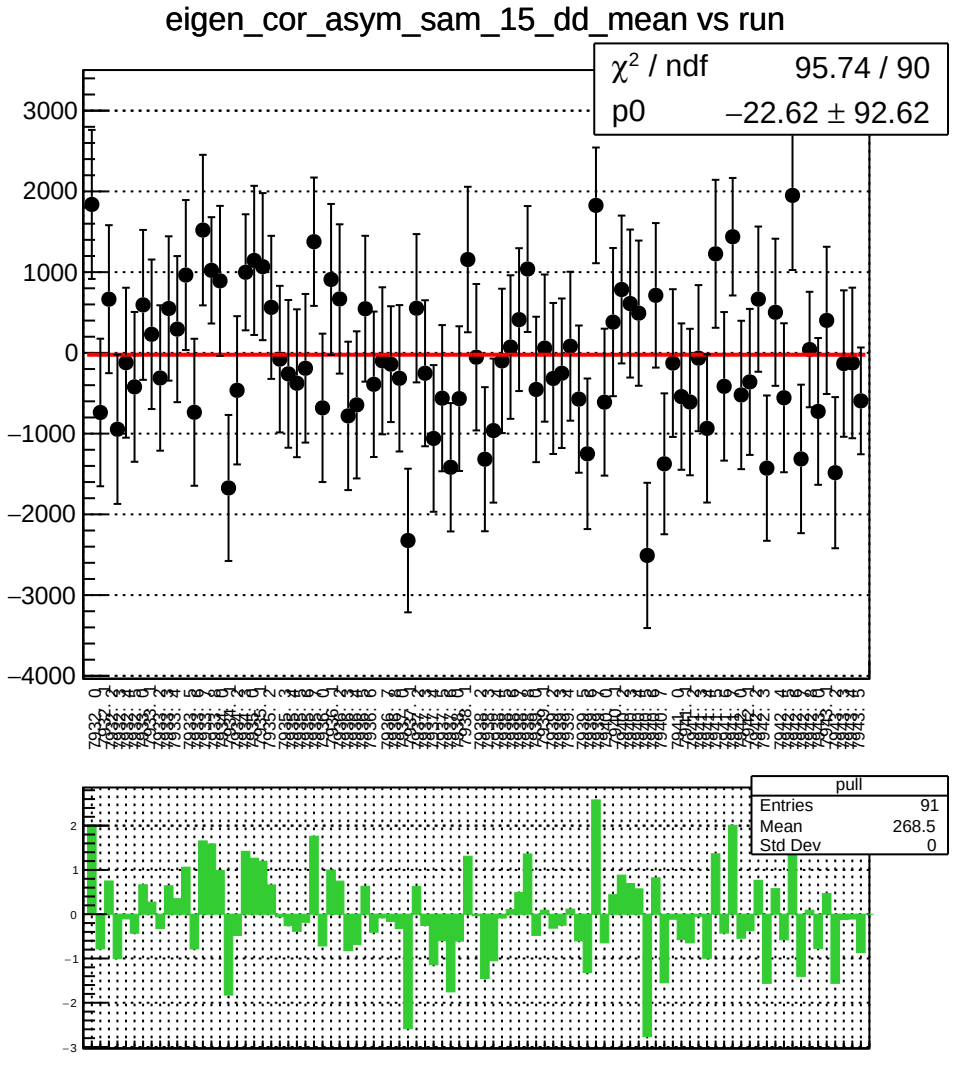

cor_asym_sam_15_dd_mean vs run
χ² / ndf 95.74 / 90
p0 −22.62 ± 92.62
pull
Entries 91
Mean 268.5
Std Dev 0

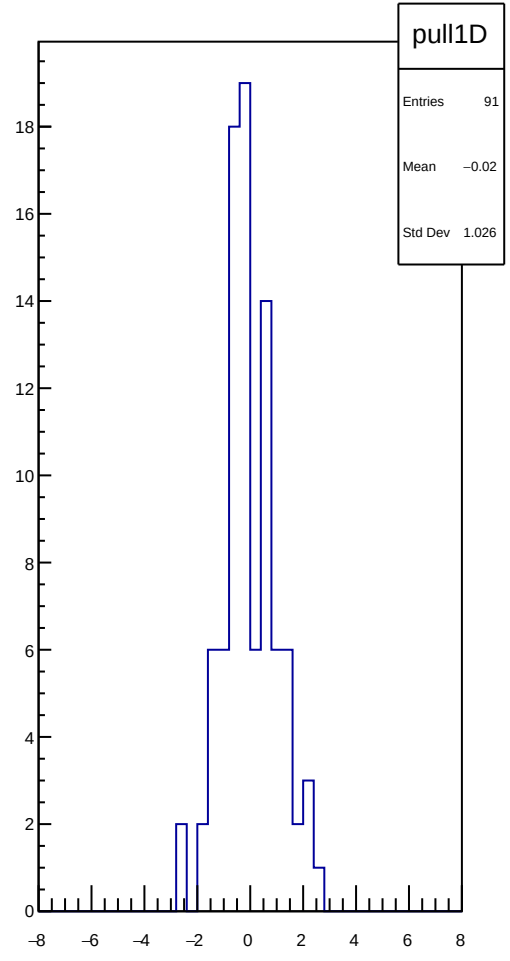

pull1D
Entries 91
Mean −0.02
Std Dev 1.026

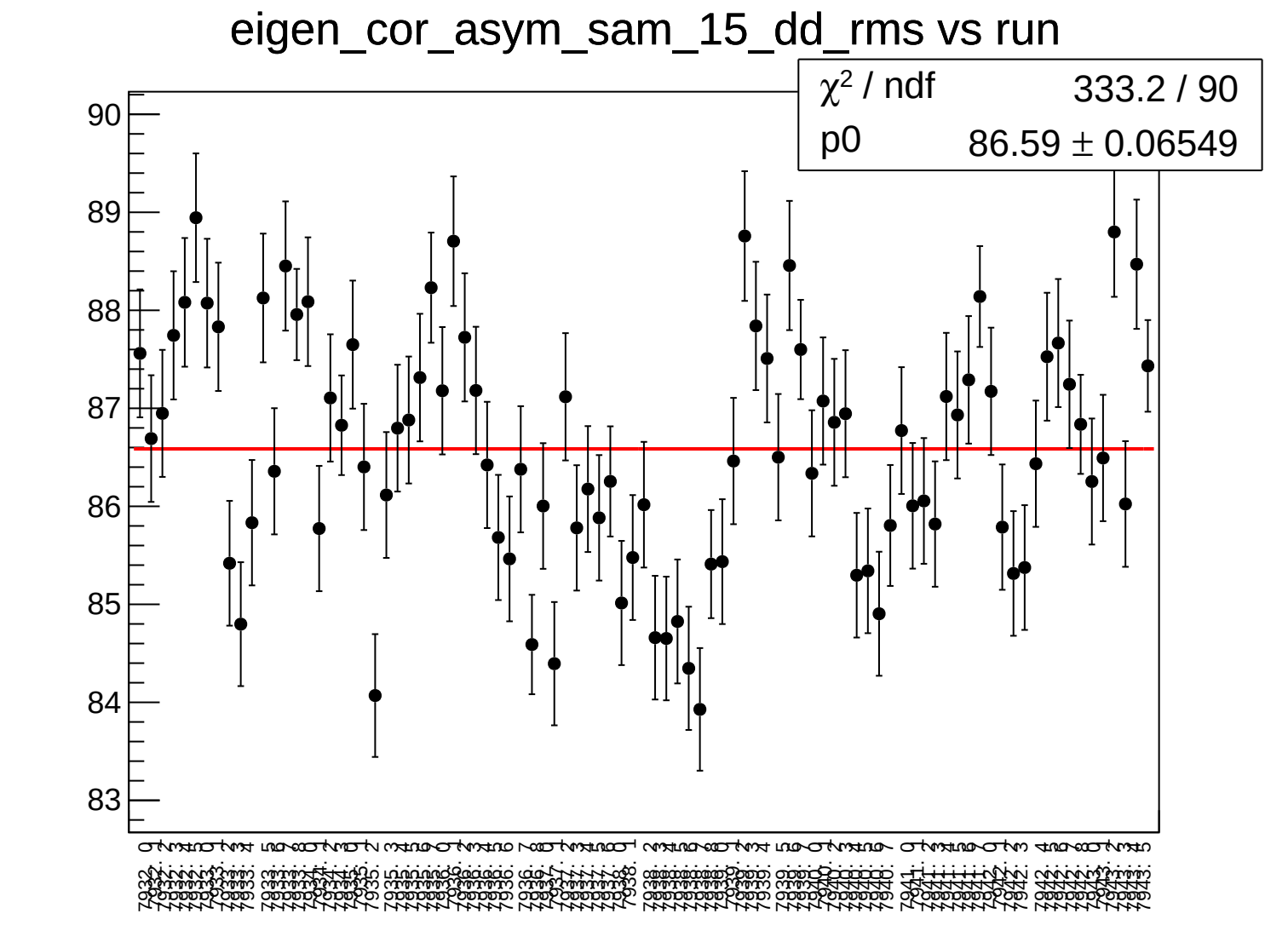

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 333.2 / 90
p0 86.59 ± 0.06549
90
89
88
87
86
85
84
83

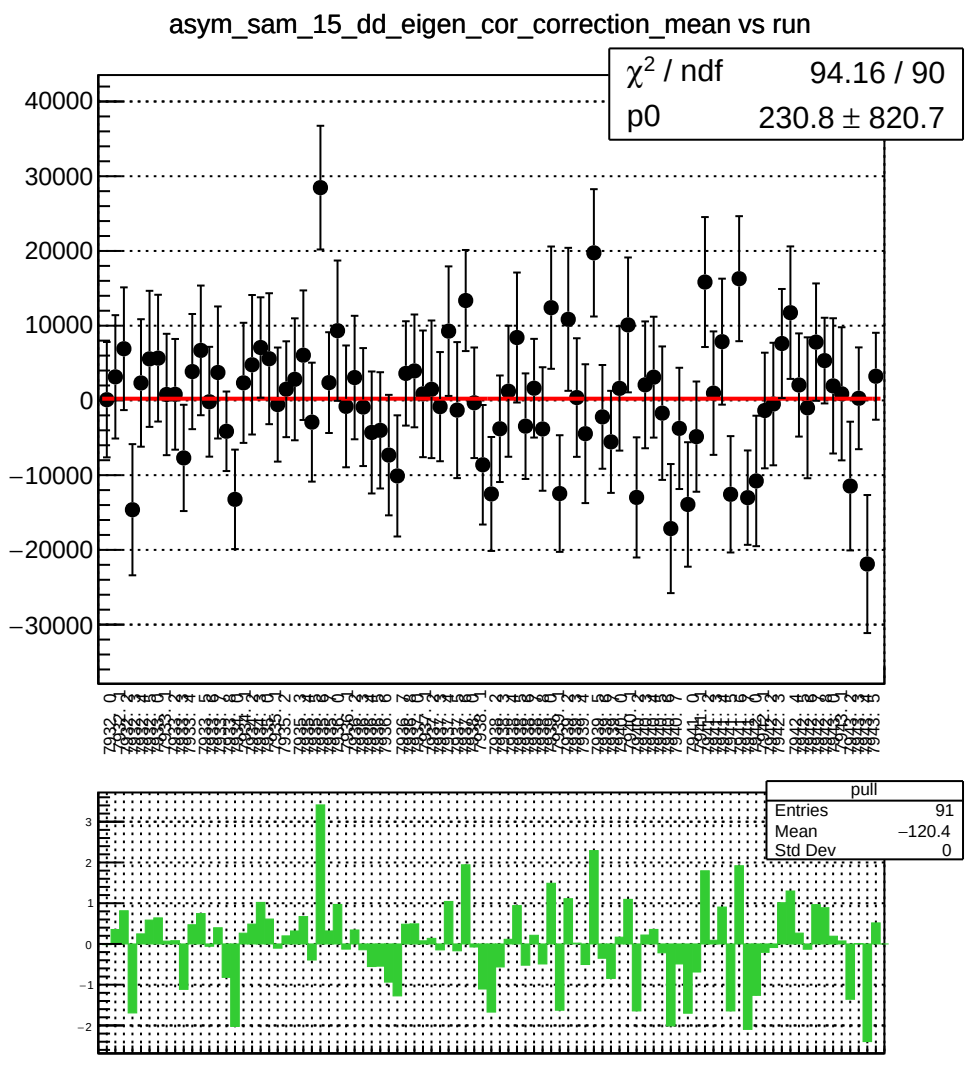

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 94.16 / 90
p0 230.8 ± 820.7
pull
Entries 91
Mean −120.4
Std Dev 0
pull1D
Entries 91
Mean 0.01475
Std Dev 1.017

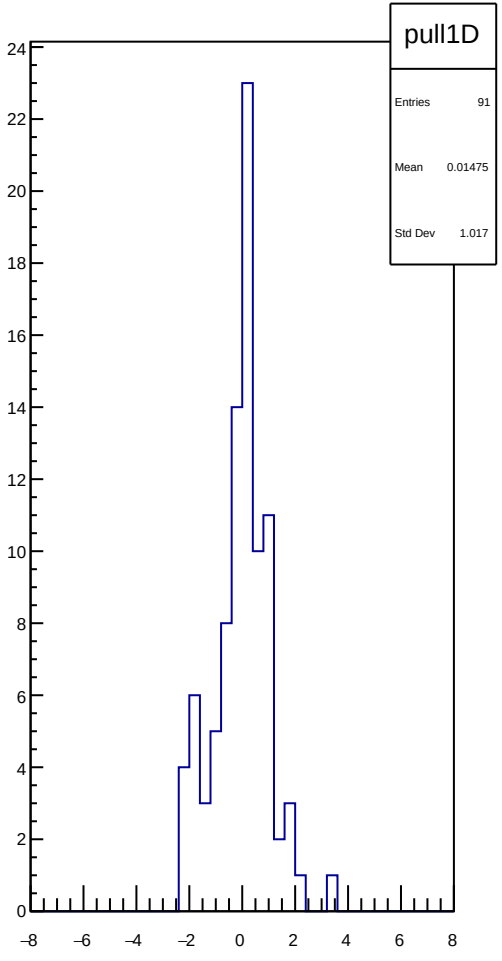

asym_sam_15_dd_cor_correction_rms vs run
χ^2 / ndf 1.387e+04 / 90
p0 764.3 ± 0.5803
900
850
800
750
700
650
600

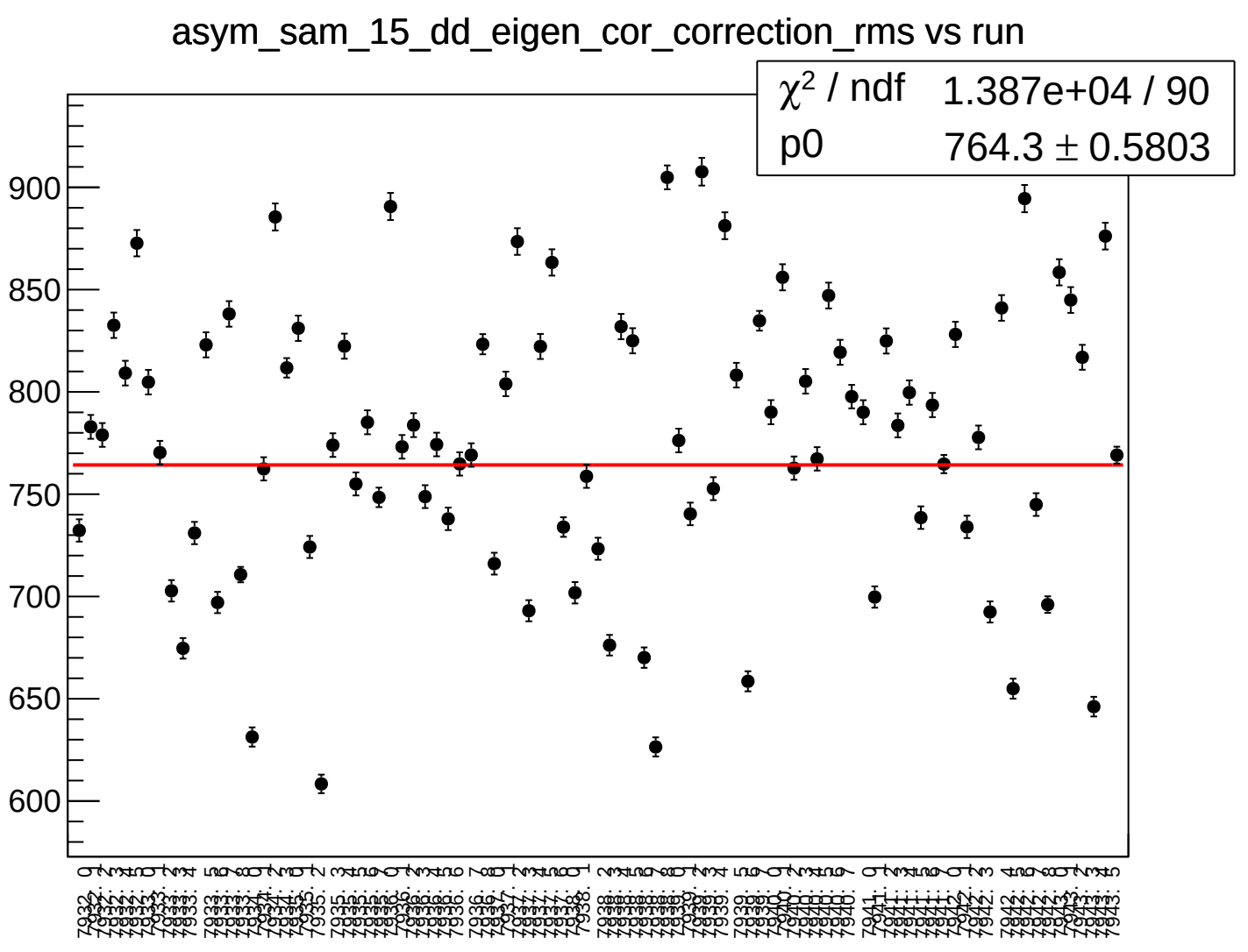

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 95.74 / 90
p0 −22.62 ± 92.62
pull
Entries 91
Mean 268.5
Std Dev 0

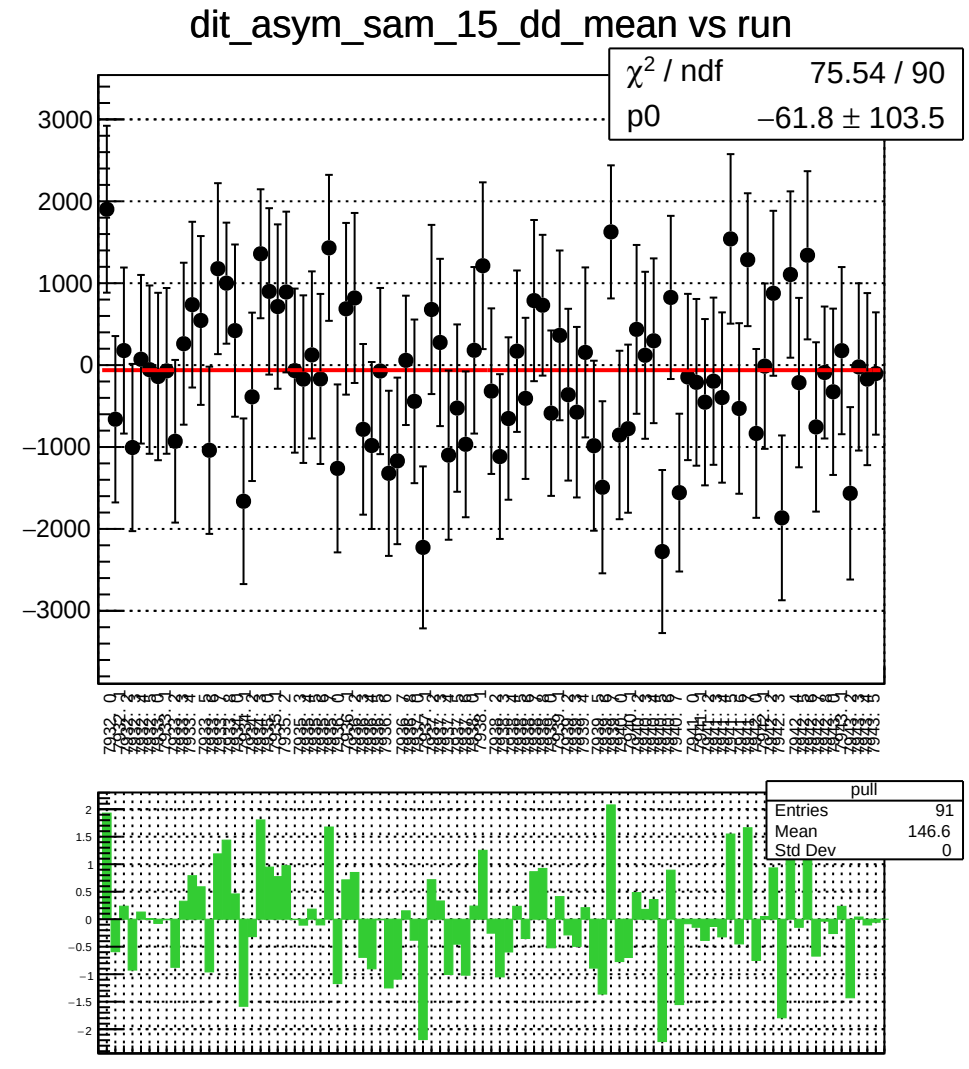

pull1D
Entries 91
Mean −0.02
Std Dev 1.026

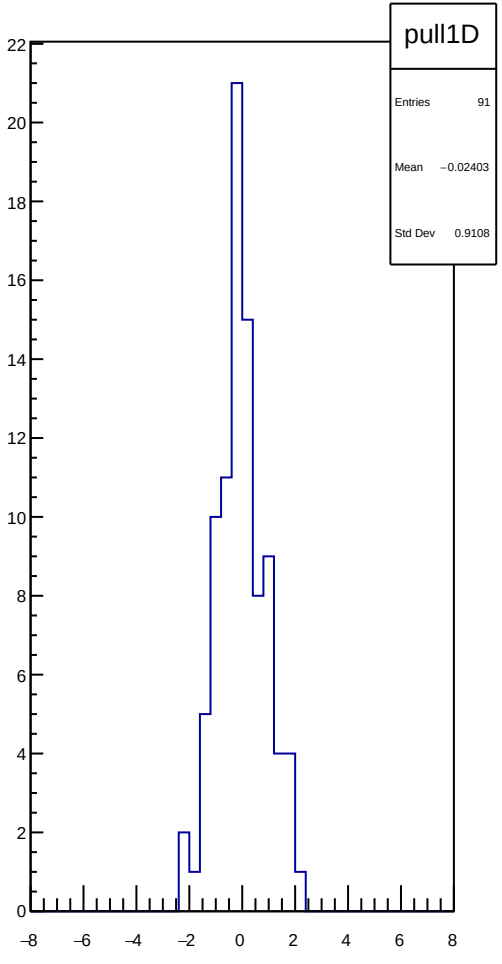

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 333.2 / 90
p0 86.59 ± 0.06549
90
89
88
87
86
85
84
83

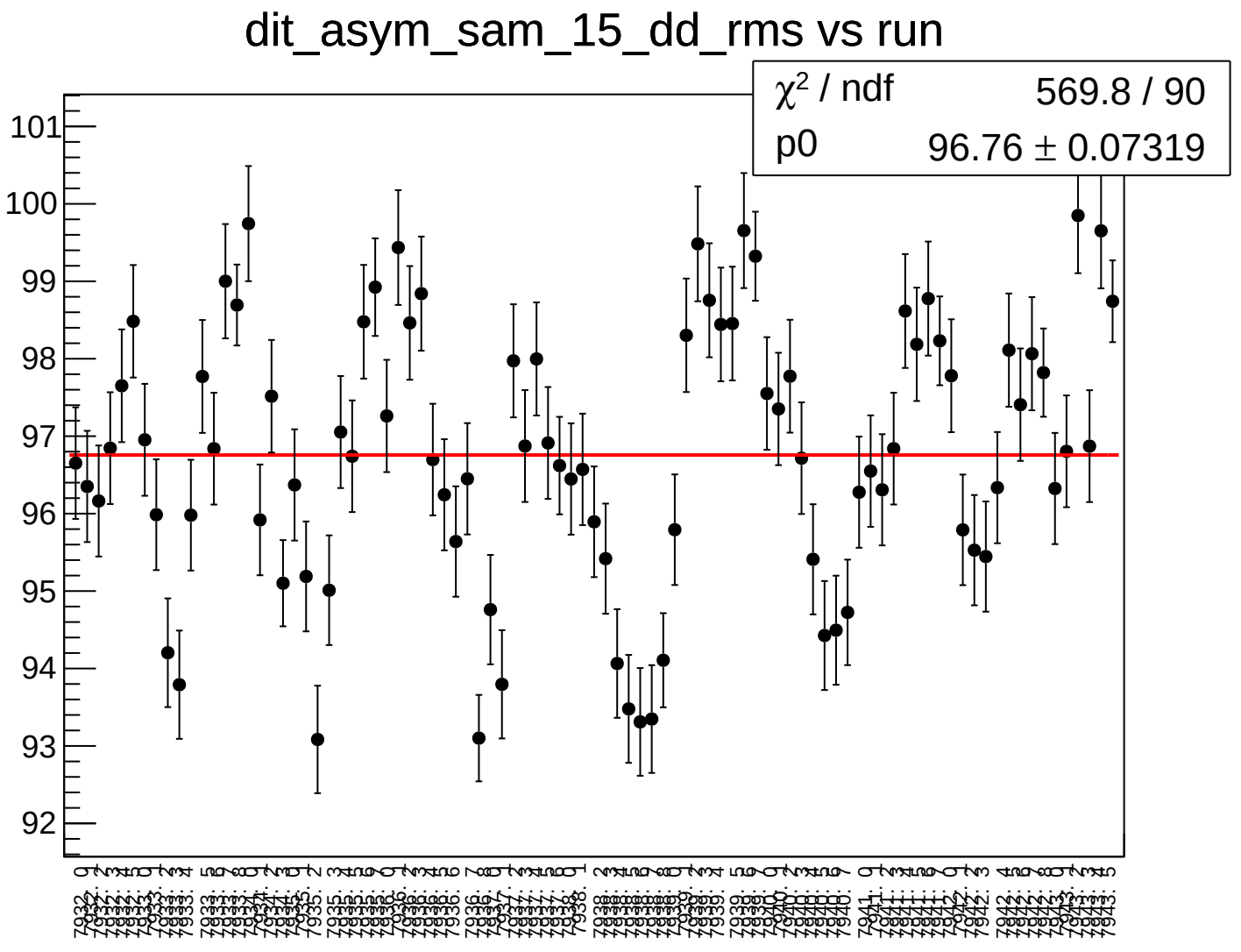

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.16 / 90
p0 230.8 ± 820.7
pull
Entries 91
Mean −120.4
Std Dev 0

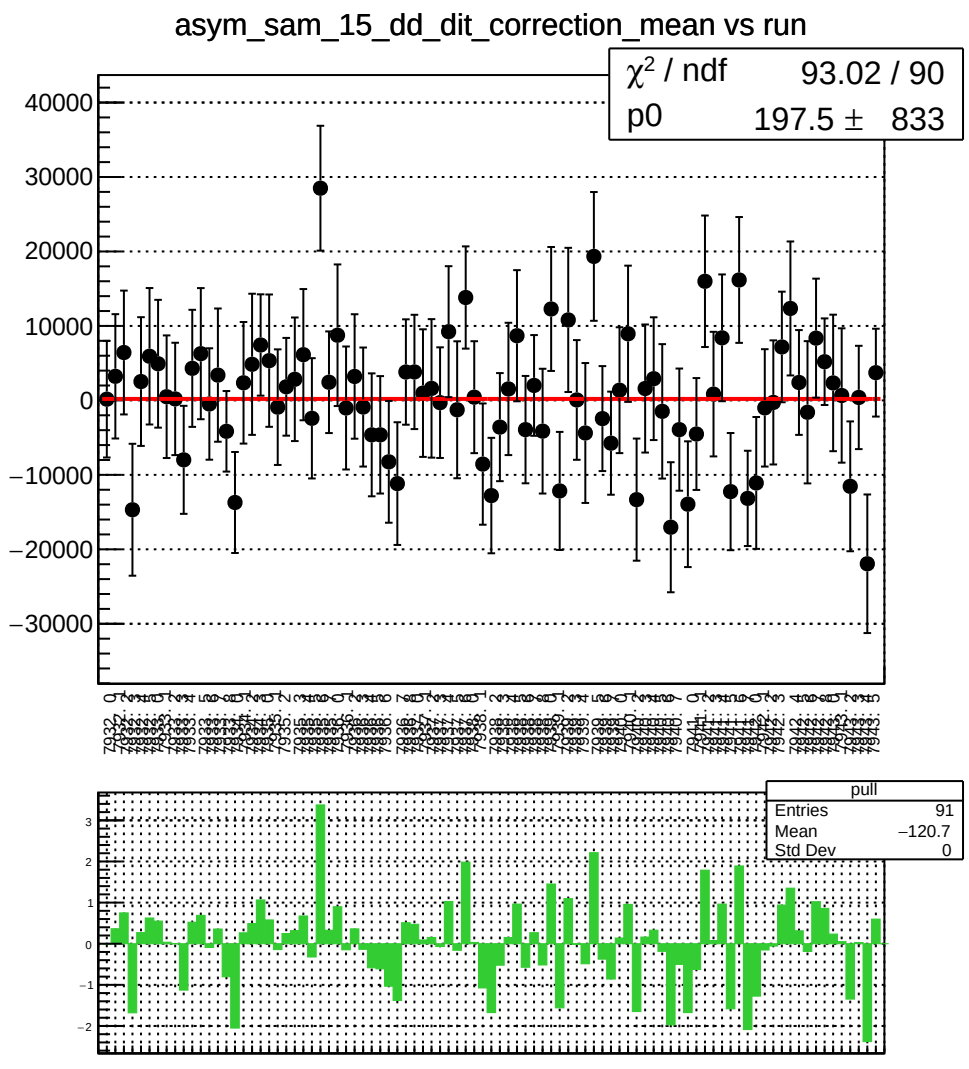

pull1D
Entries 91
Mean 0.01475
Std Dev 1.017

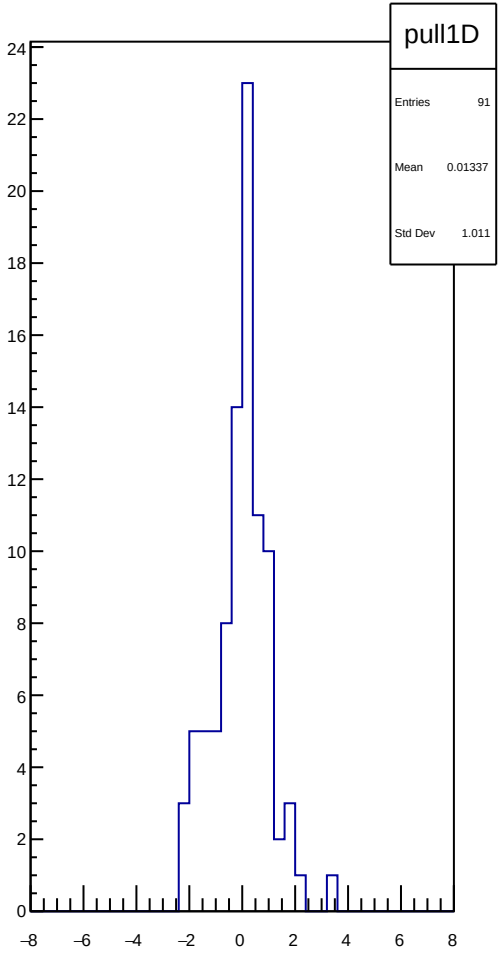

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.387e+04 / 90
p0 764.3 ± 0.5803
900
850
800
750
700
650
600

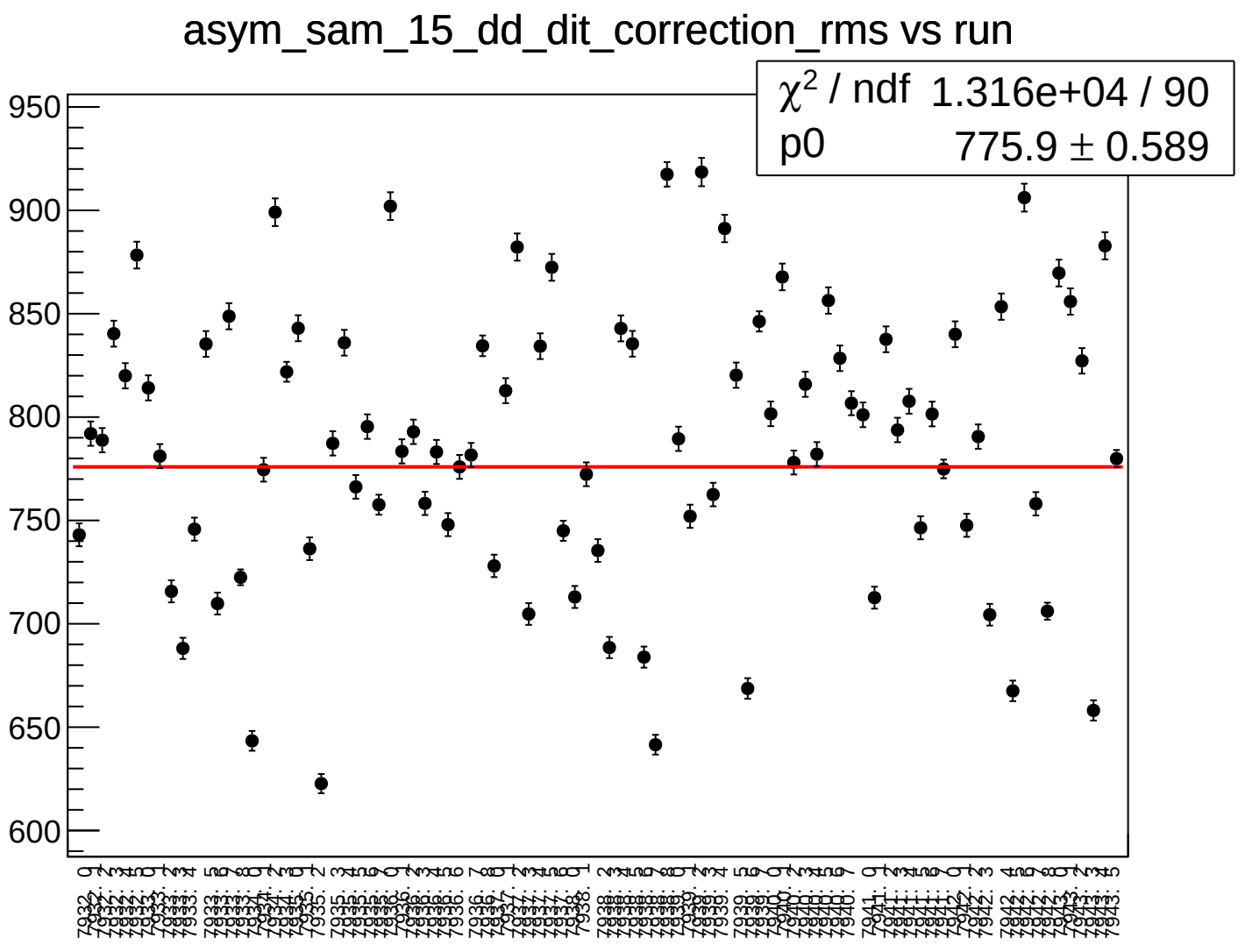

dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 75.54 / 90
p0 −61.8 ± 103.5
pull
Entries 91
Mean 146.6
Std Dev 0

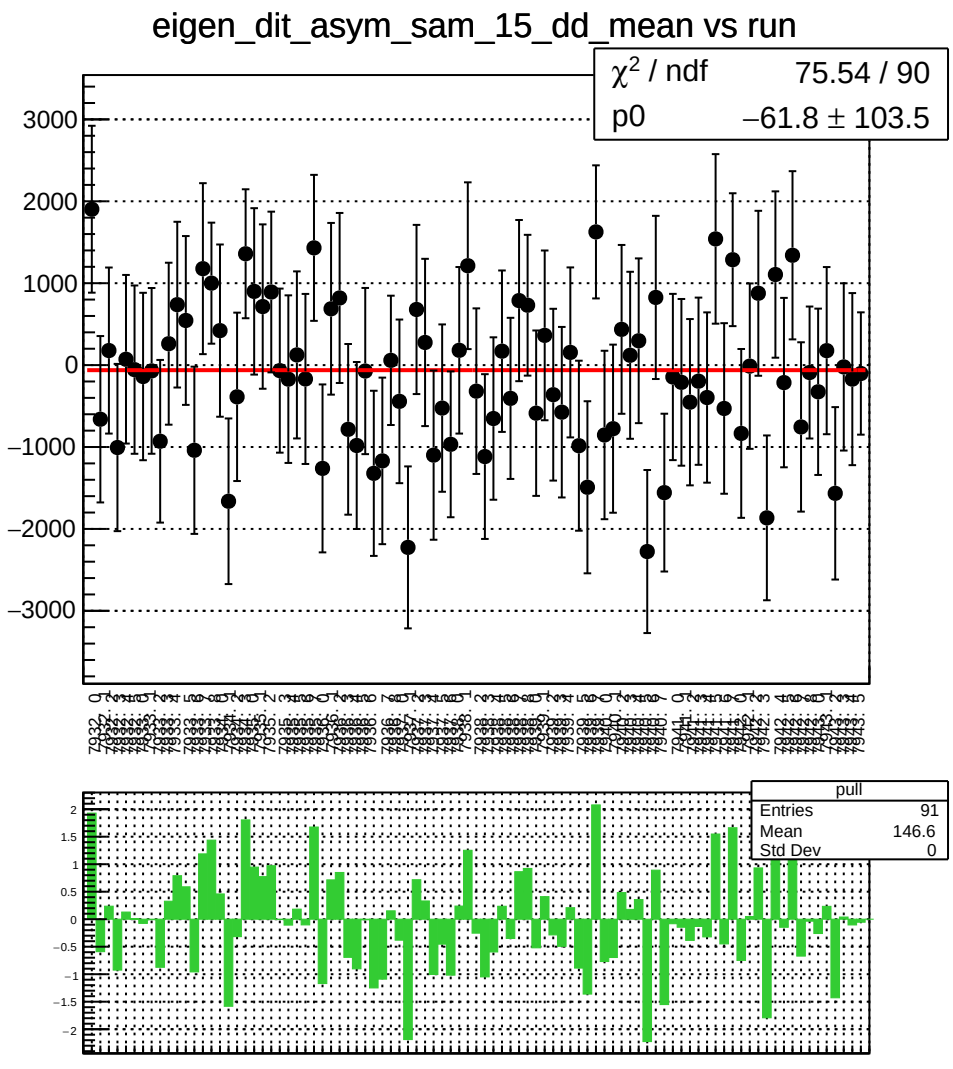

pull1D
Entries 91
Mean −0.02403
Std Dev 0.9108

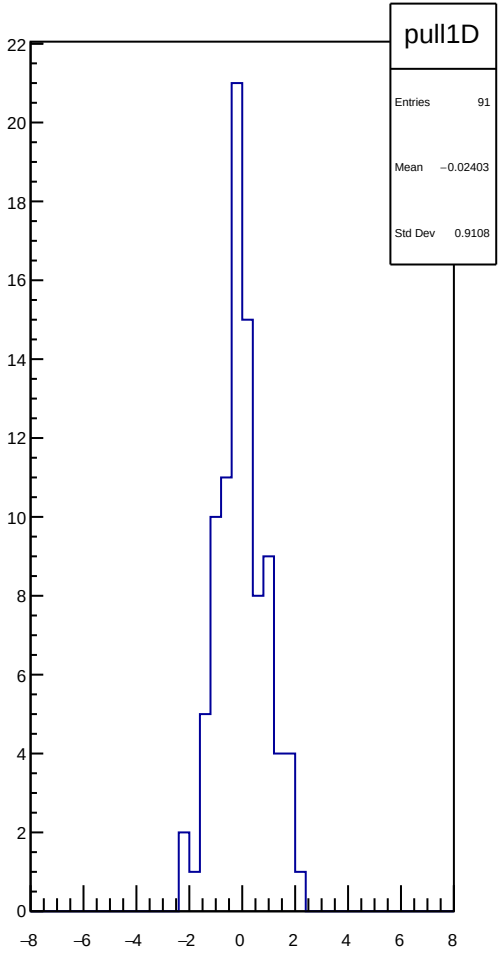

dit_asym_sam_15_dd_rms vs run
χ² / ndf 569.8 / 90
p0 96.76 ± 0.07319
101
100
99
98
97
96
95
94
93
92

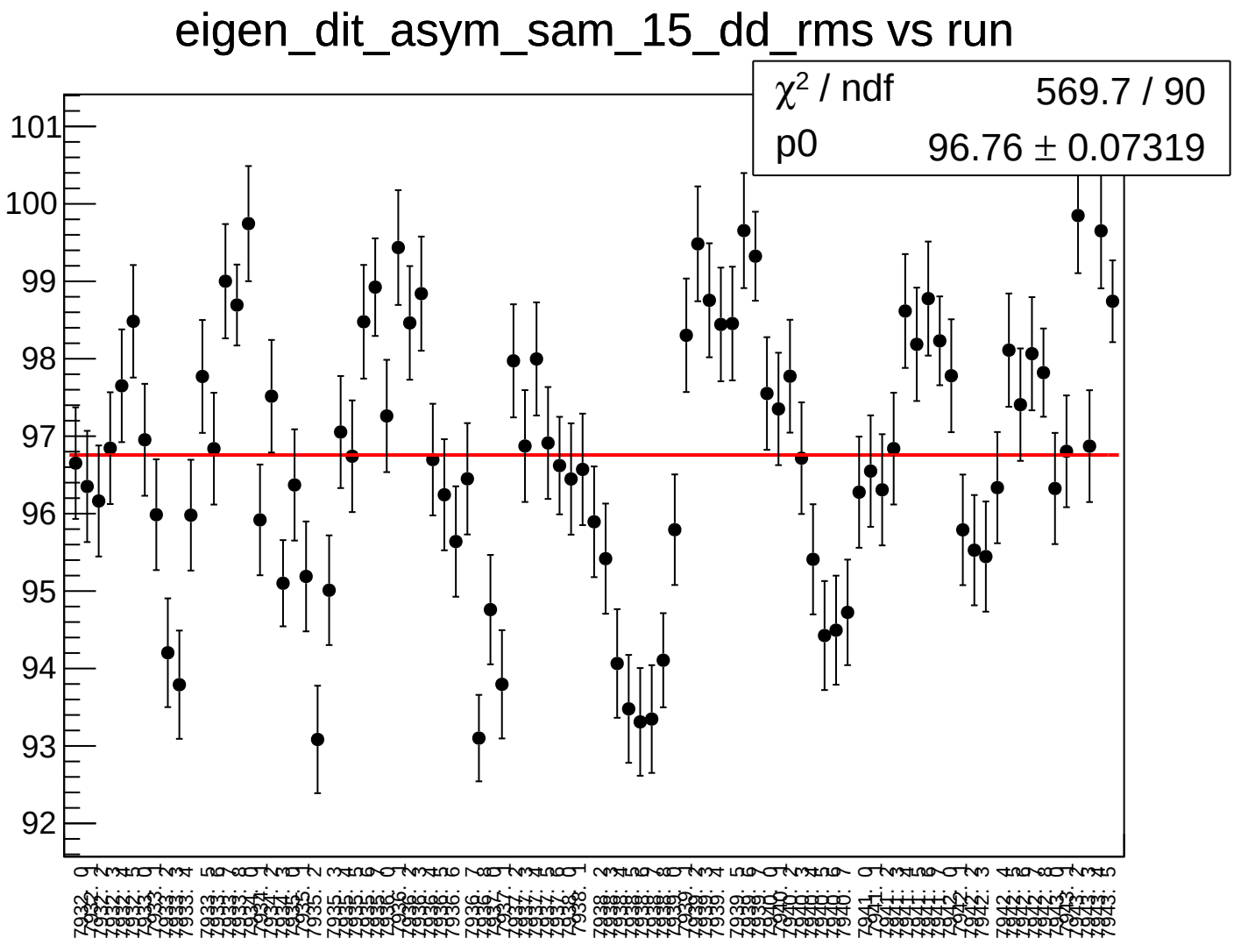

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 93.02 / 90
p0 197.5 ± 833
pull
Entries 91
Mean −120.7
Std Dev 0

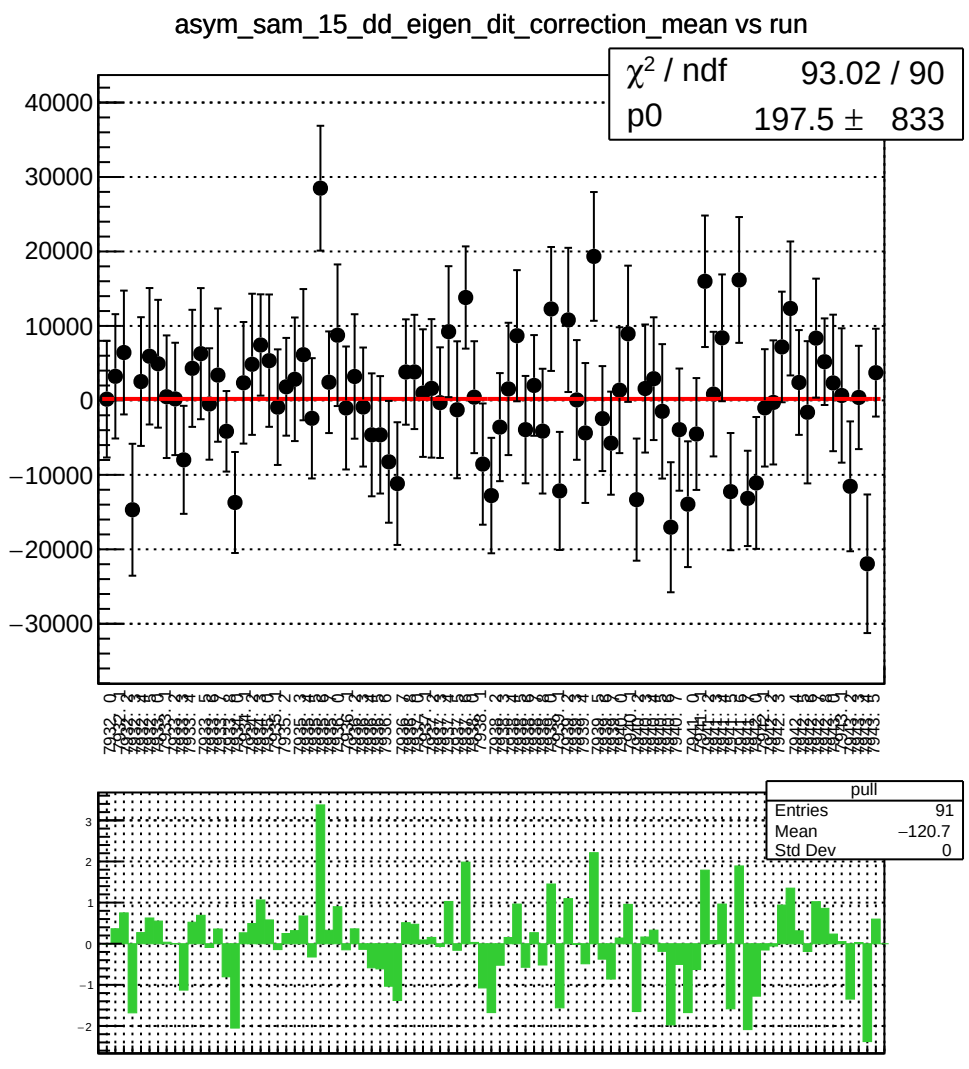

pull1D
Entries 91
Mean 0.01337
Std Dev 1.011

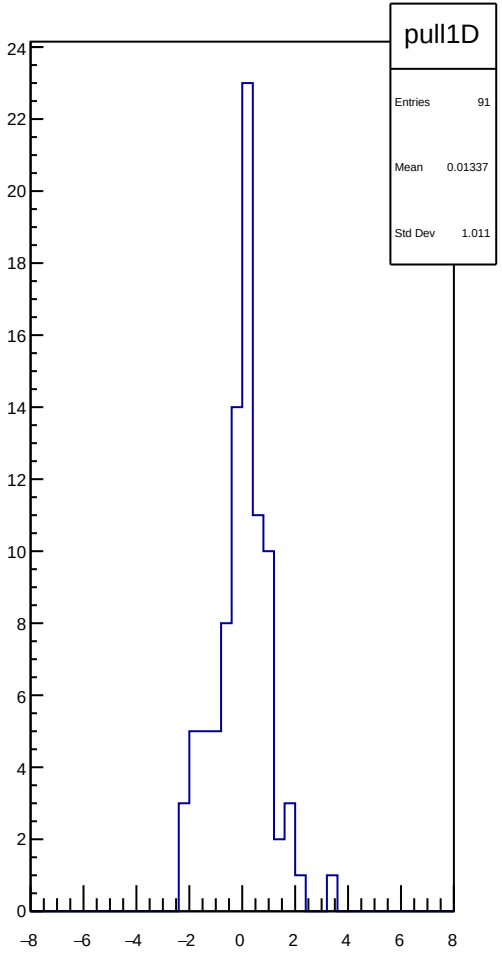

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.316e+04 / 90
p0 775.9 ± 0.589
950
900
850
800
750
700
650
600

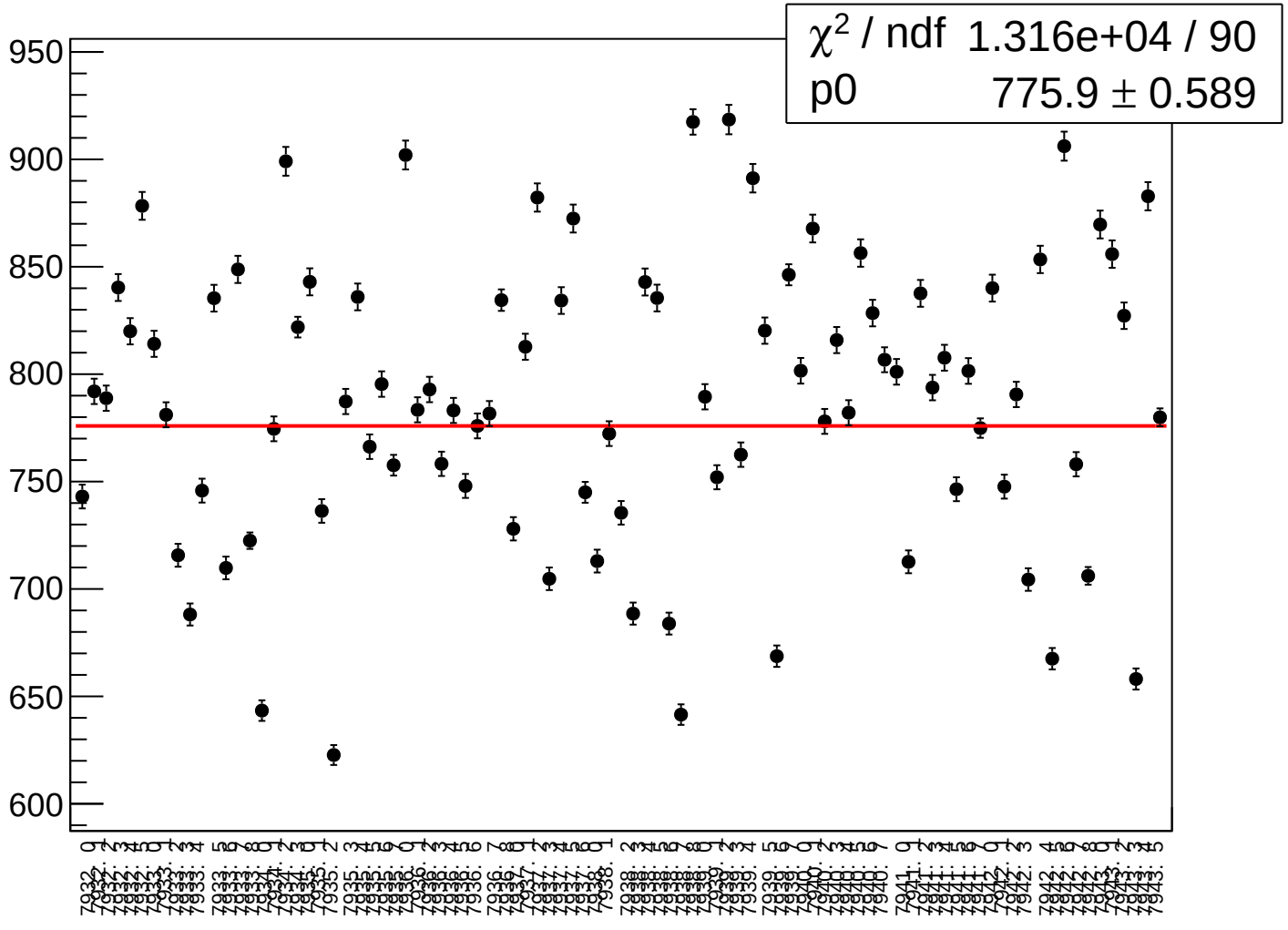

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 75.54 / 90
p0 −61.8 ± 103.5
pull
Entries 91
Mean 146.6
Std Dev 0

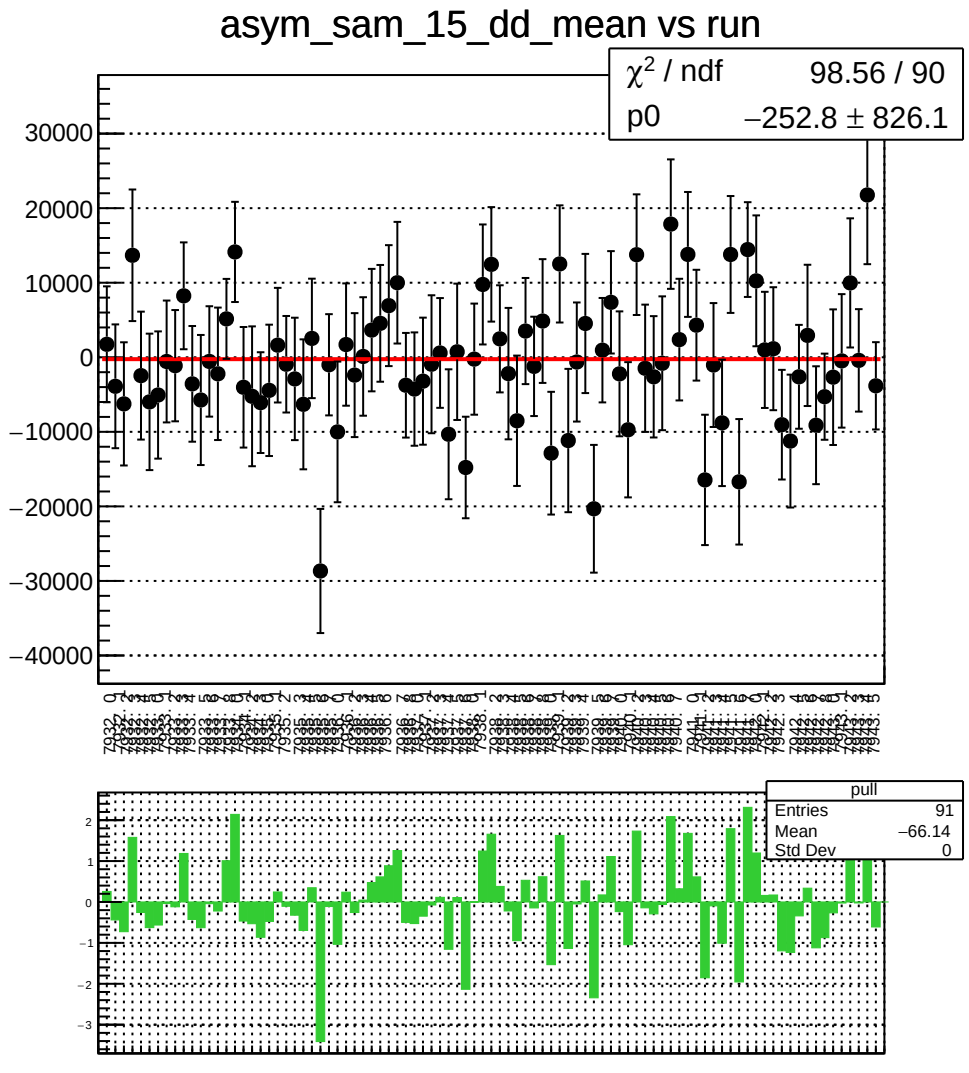

pull1D
Entries 91
Mean −0.02403
Std Dev 0.9108

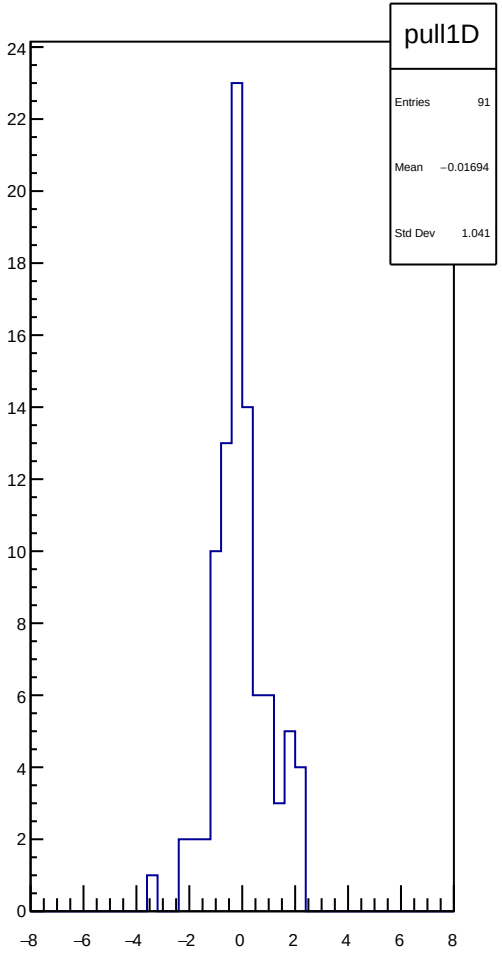

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 569.7 / 90
p0 96.76 ± 0.07319
101
100
99
98
97
96
95
94
93
92

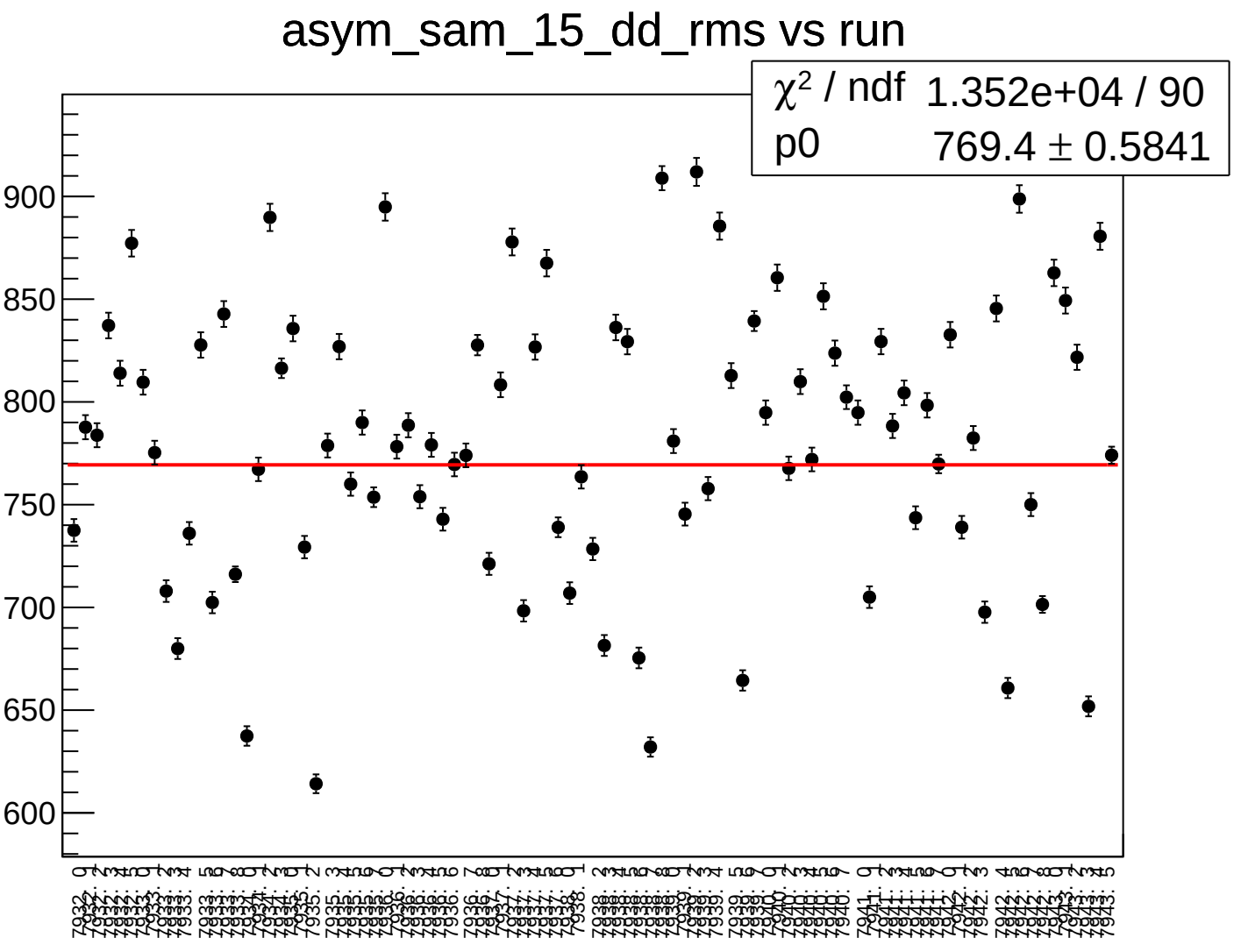

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.02 / 90
p0 197.5 ± 833
pull
Entries 91
Mean −120.7
Std Dev 0

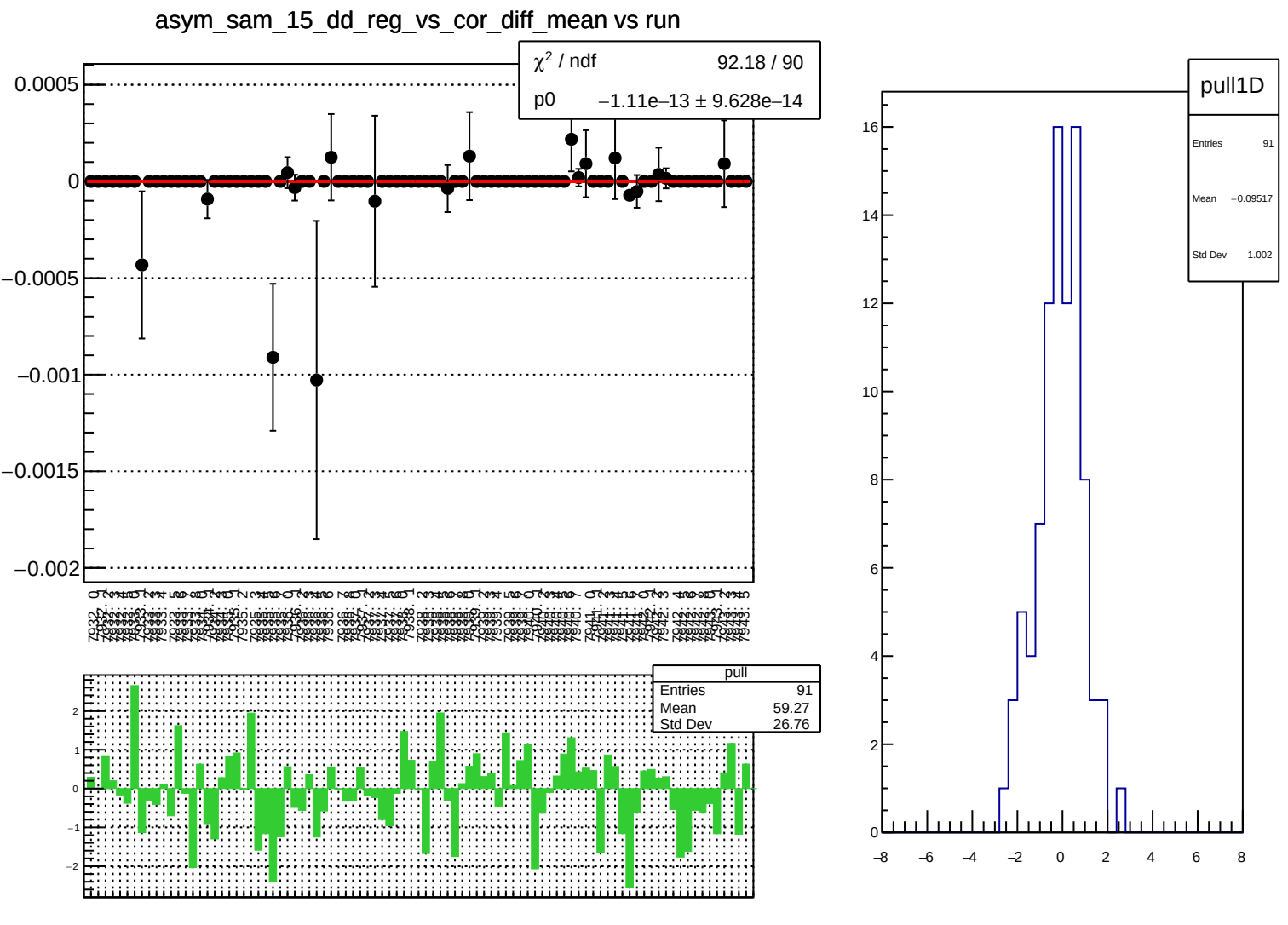

pull1D
Entries 91
Mean 0.01337
Std Dev 1.011

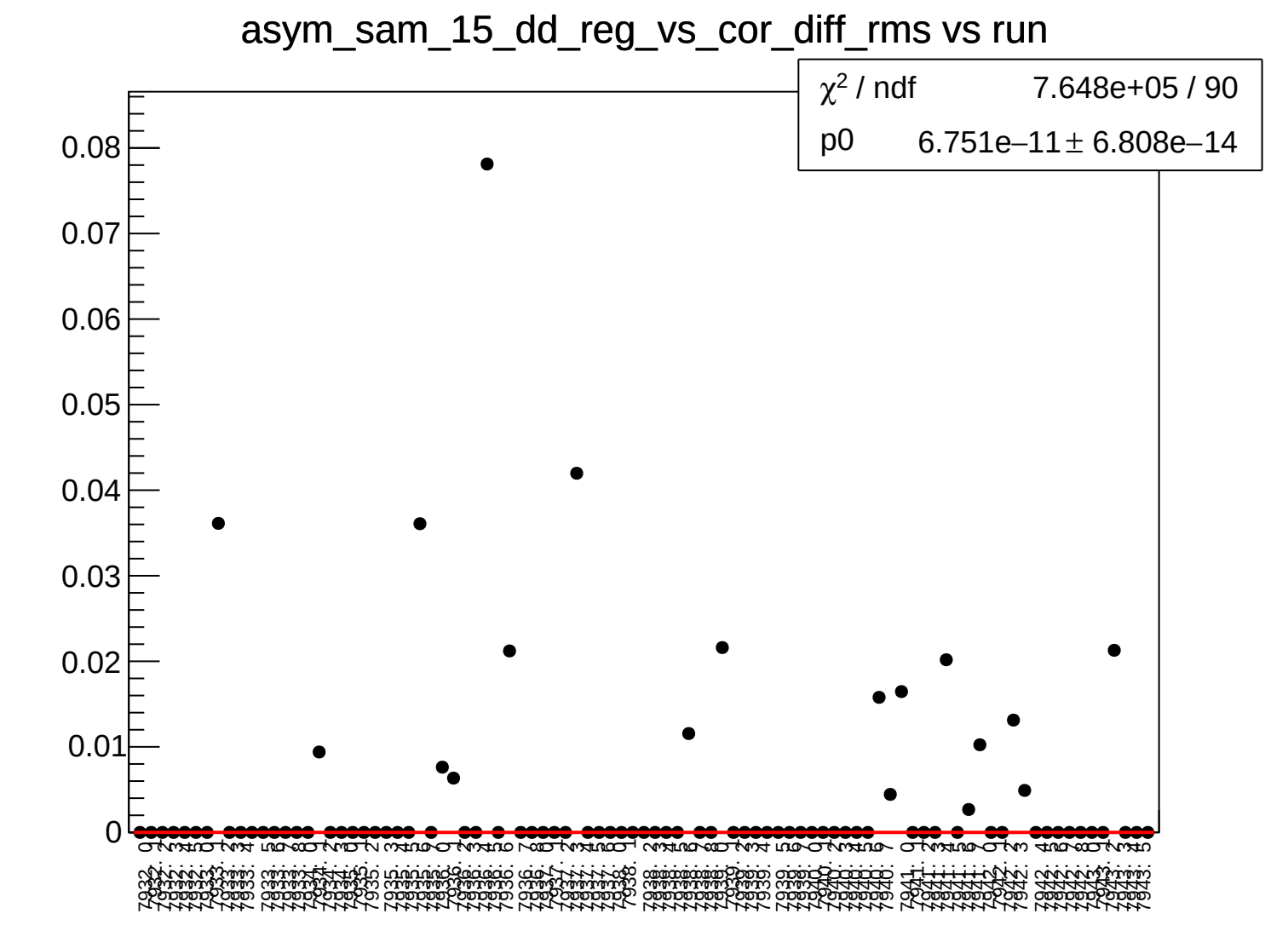

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.316e+04 / 90
p0 775.9 ± 0.589
950
900
850
800
750
700
650
600

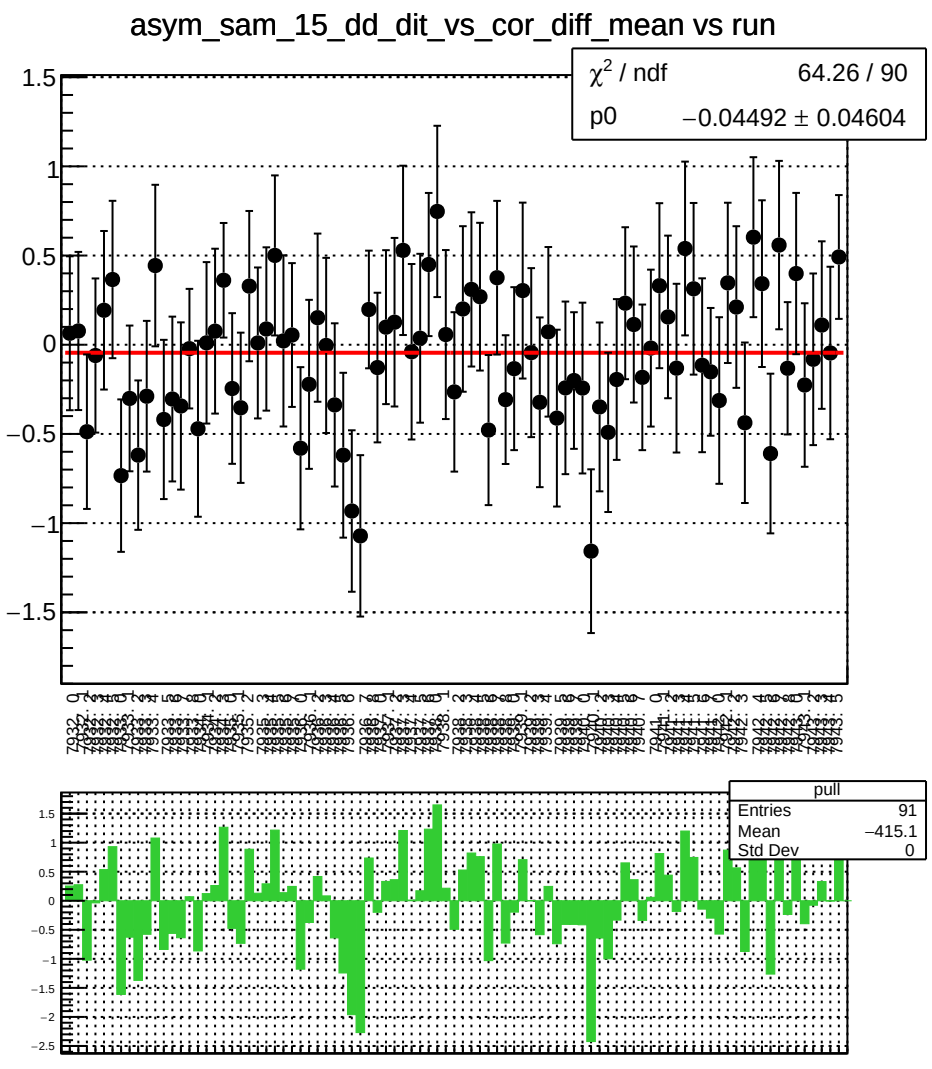

asym_sam_15_dd_mean vs run
χ² / ndf 98.56 / 90
p0 −252.8 ± 826.1
pull
Entries 91
Mean −66.14
Std Dev 0

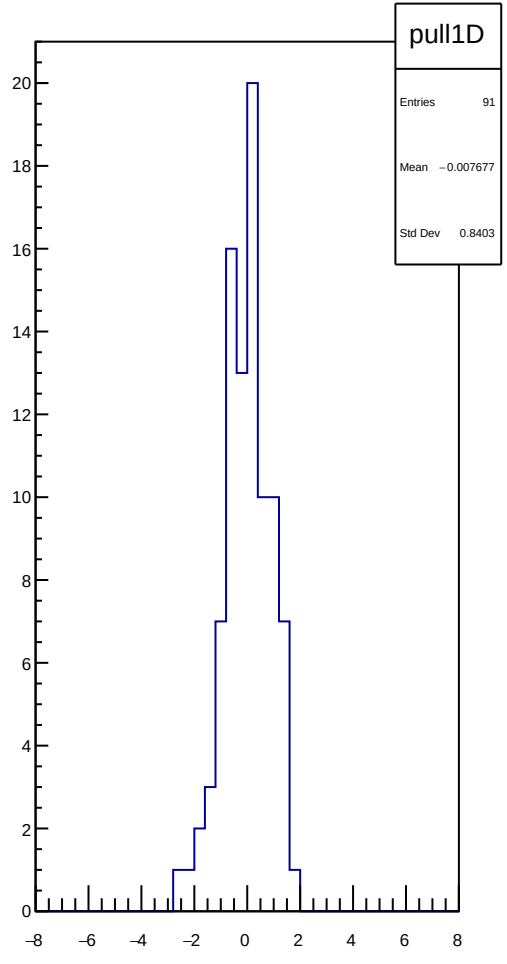

pull1D
Entries 91
Mean −0.01694
Std Dev 1.041

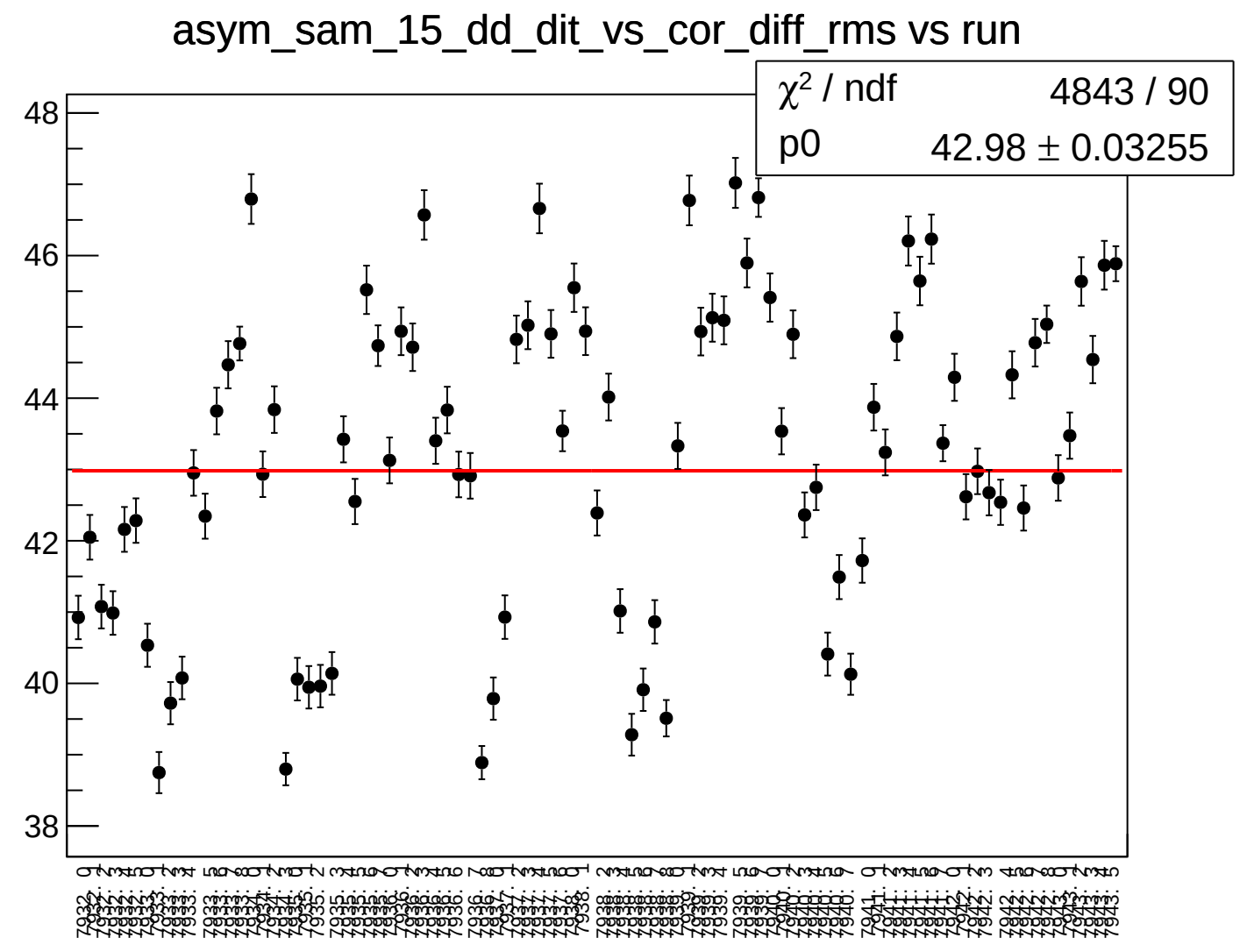

asym_sam_15_dd_rms vs run
χ² / ndf 1.352e+04 / 90
p0 769.4 ± 0.5841
900
850
800
750
700
650
600

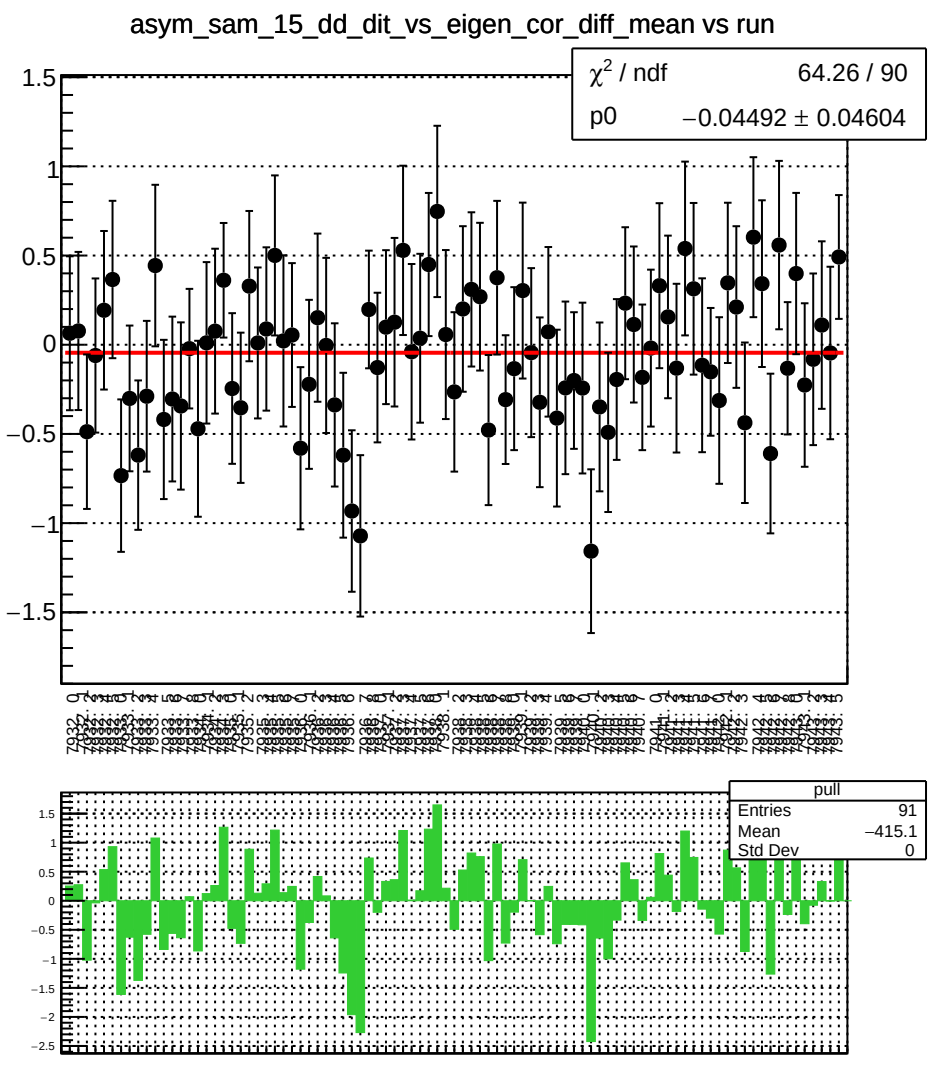

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.18 / 90
p0 −1.11e−13 ± 9.628e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 59.27
Std Dev 26.76
pull1D
Entries 91
Mean −0.09517
Std Dev 1.002

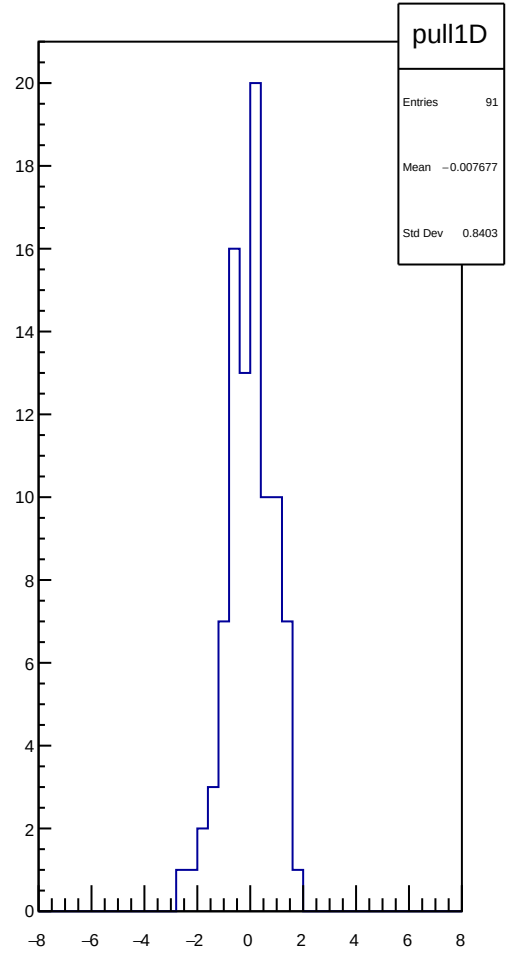

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.648e+05 / 90
p0 6.751e−11 ± 6.808e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

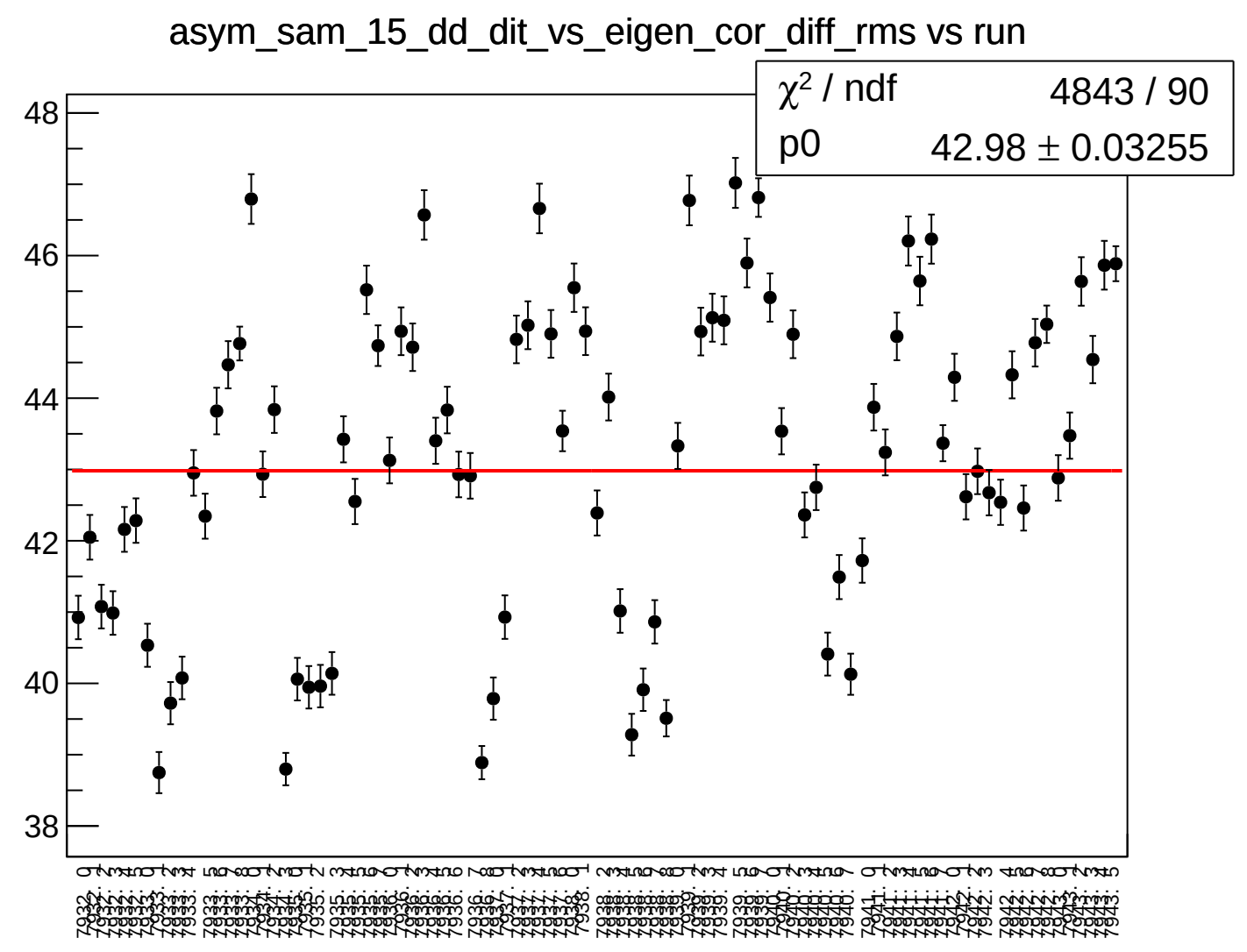

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.26 / 90
p0 −0.04492 ± 0.04604
pull
Entries 91
Mean −415.1
Std Dev 0

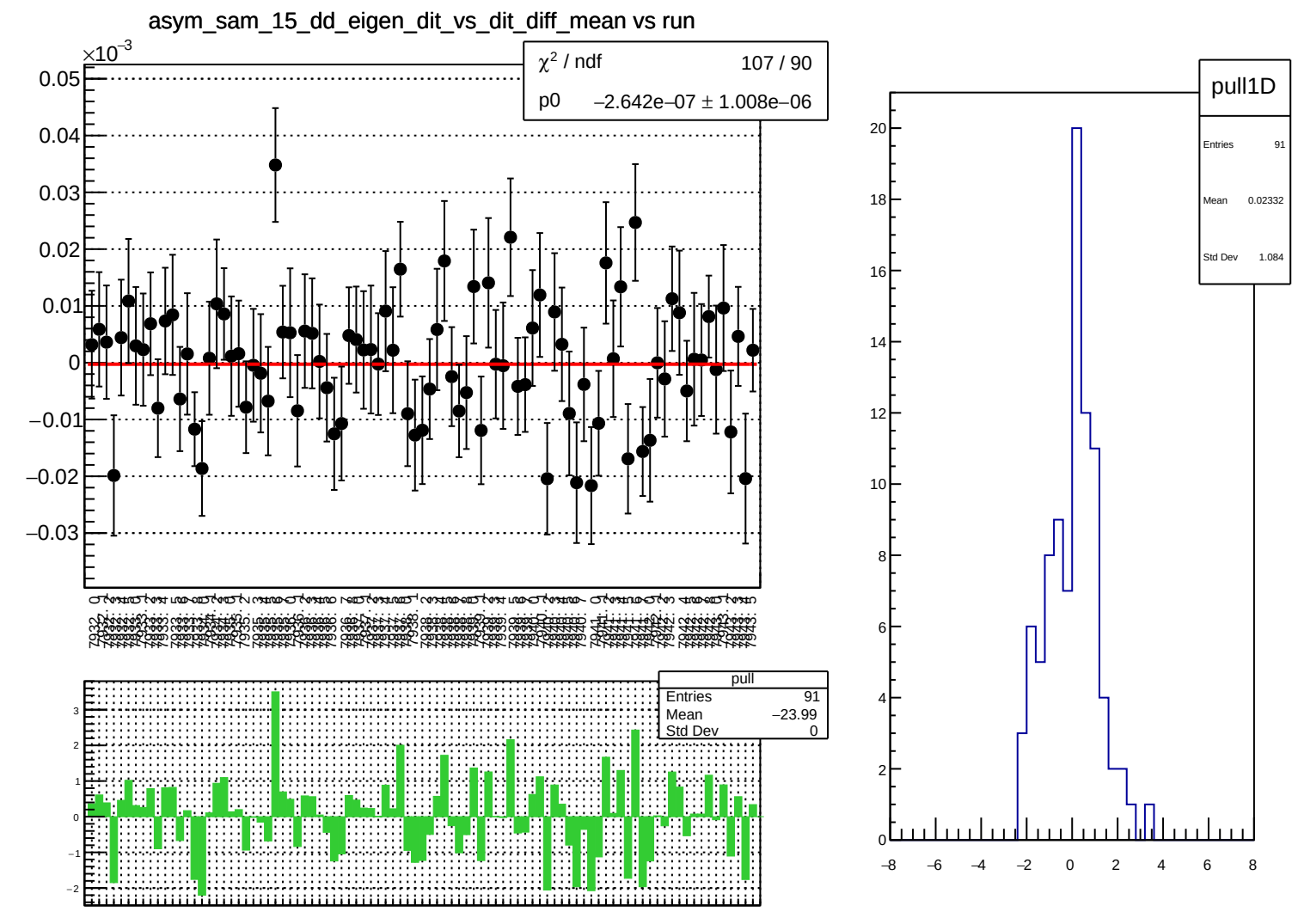

pull1D
Entries 91
Mean −0.007677
Std Dev 0.8403

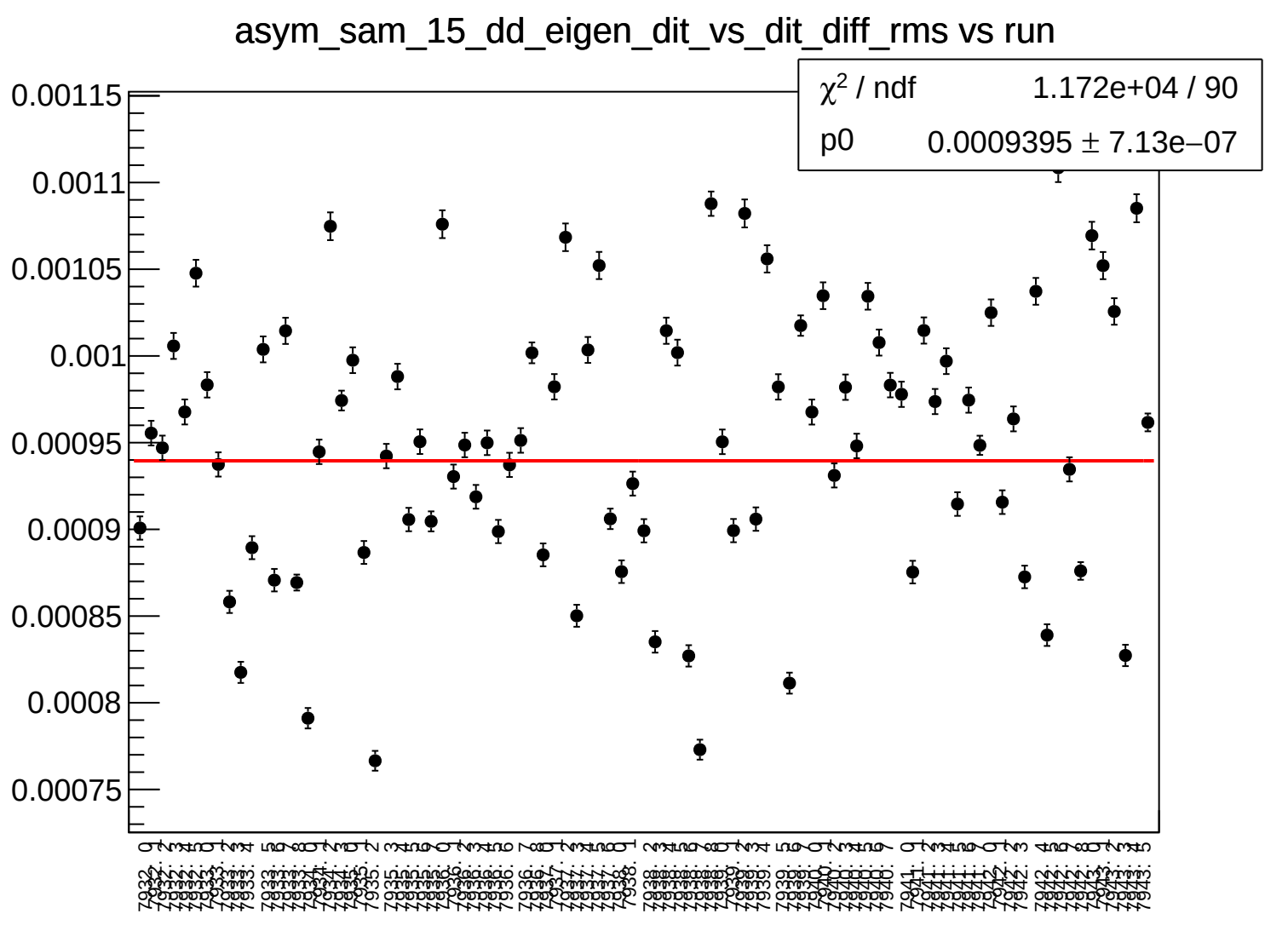

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4843 / 90
p0 42.98 ± 0.03255
48
46
44
42
40
38

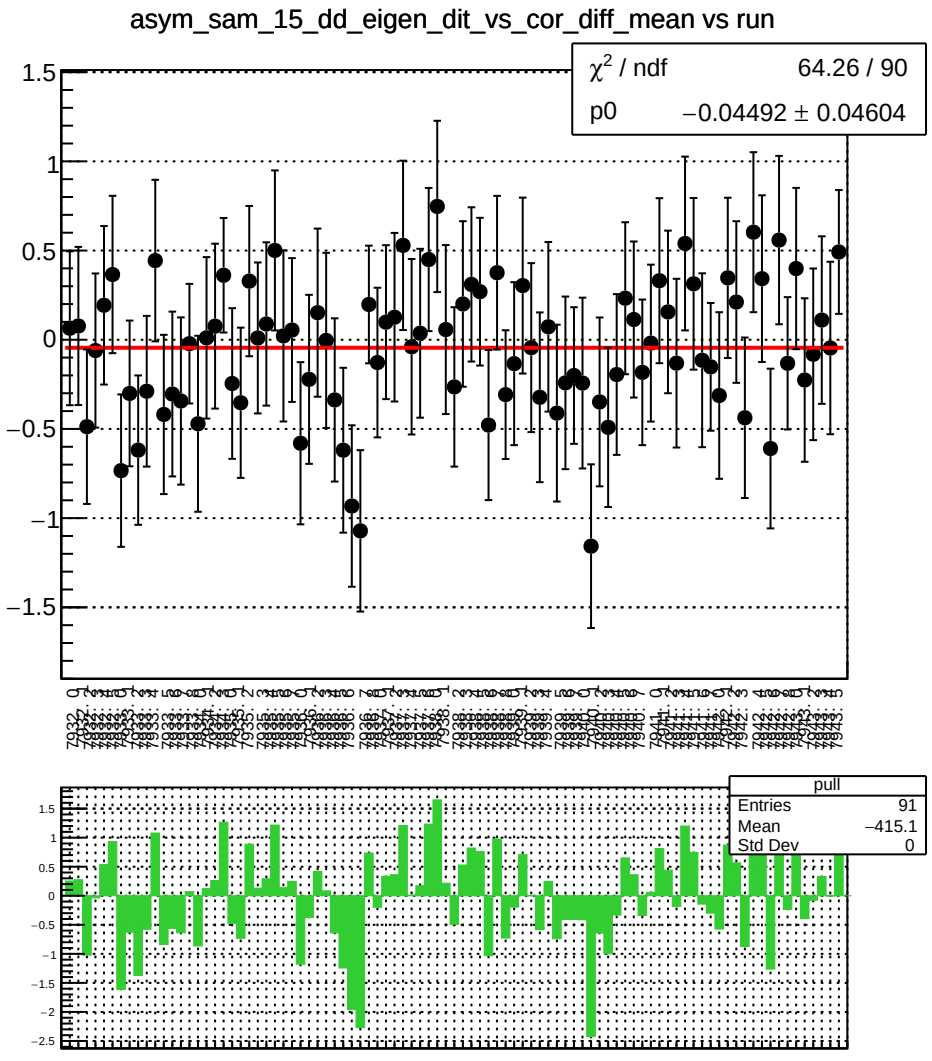

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.26 / 90
p0 −0.04492 ± 0.04604
pull
Entries 91
Mean −415.1
Std Dev 0

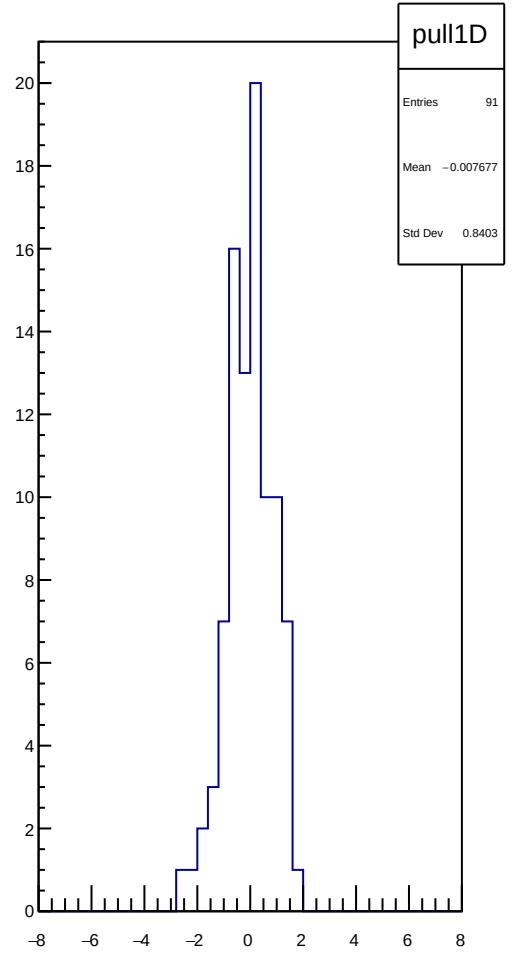

pull1D
Entries 91
Mean −0.007677
Std Dev 0.8403

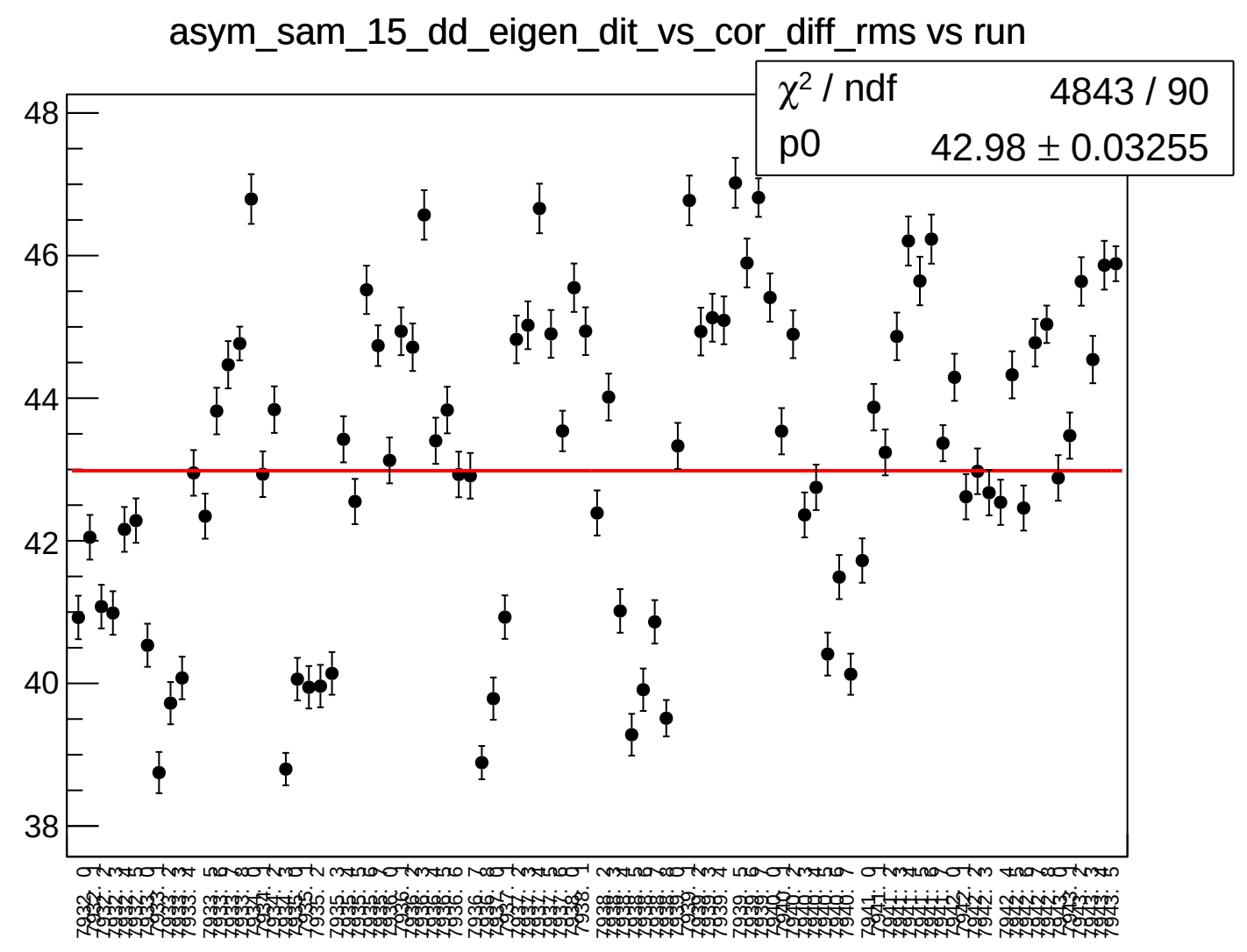

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4843 / 90
p0 42.98 ± 0.03255
48
46
44
42
40
38

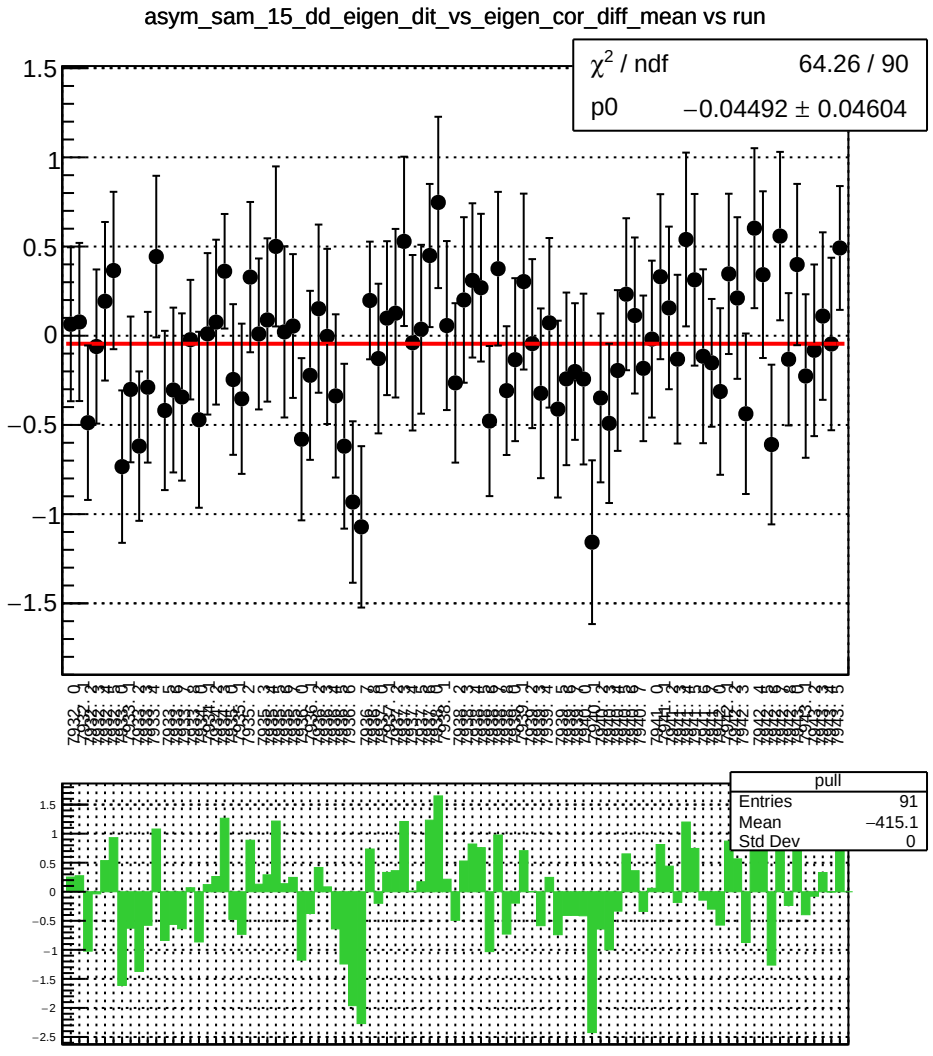

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107 / 90
p0 −2.642e−07 ± 1.008e−06
pull
Entries 91
Mean −23.99
Std Dev 0
pull1D
Entries 91
Mean 0.02332
Std Dev 1.084

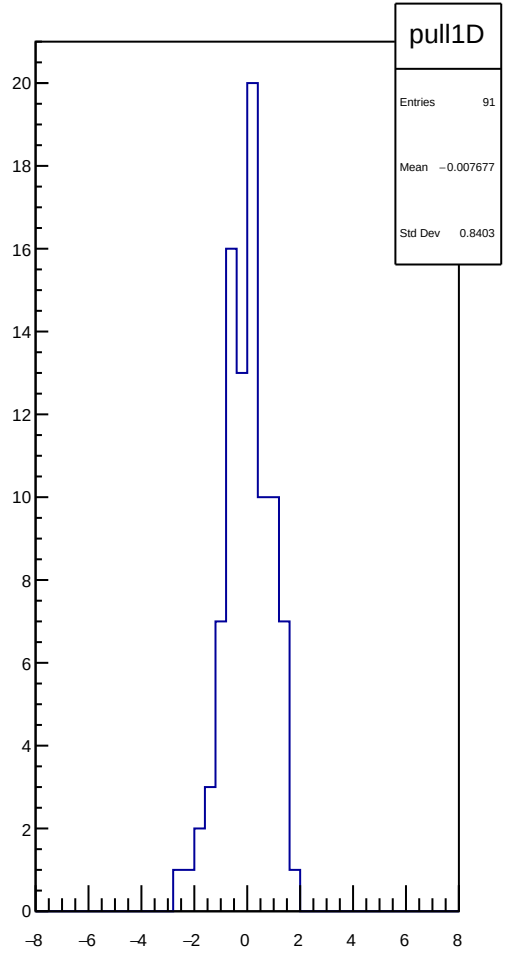

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.172e+04 / 90
p0 0.0009395 ± 7.13e−07
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

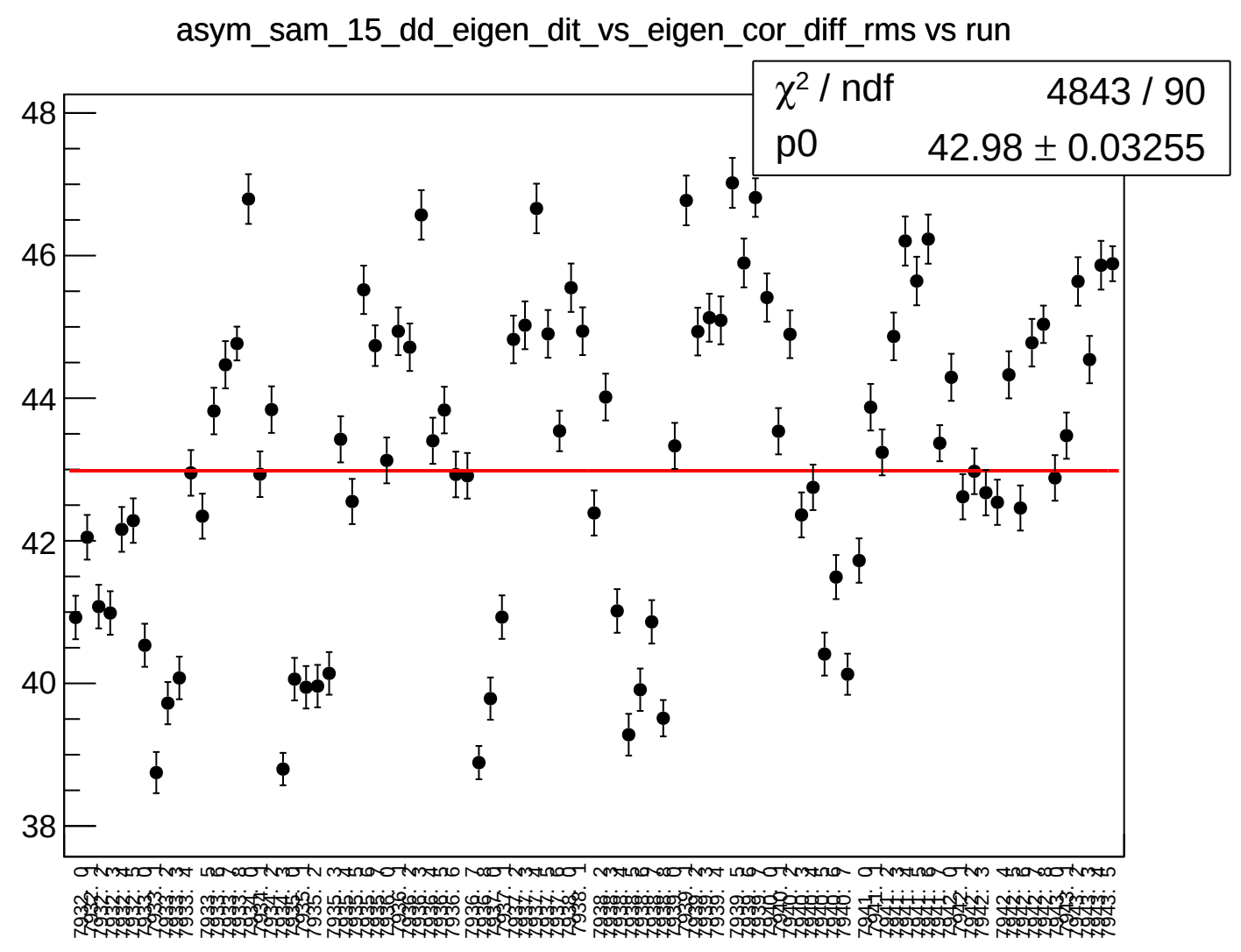

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.26 / 90
p0 −0.04492 ± 0.04604
pull
Entries 91
Mean −415.1
Std Dev 0

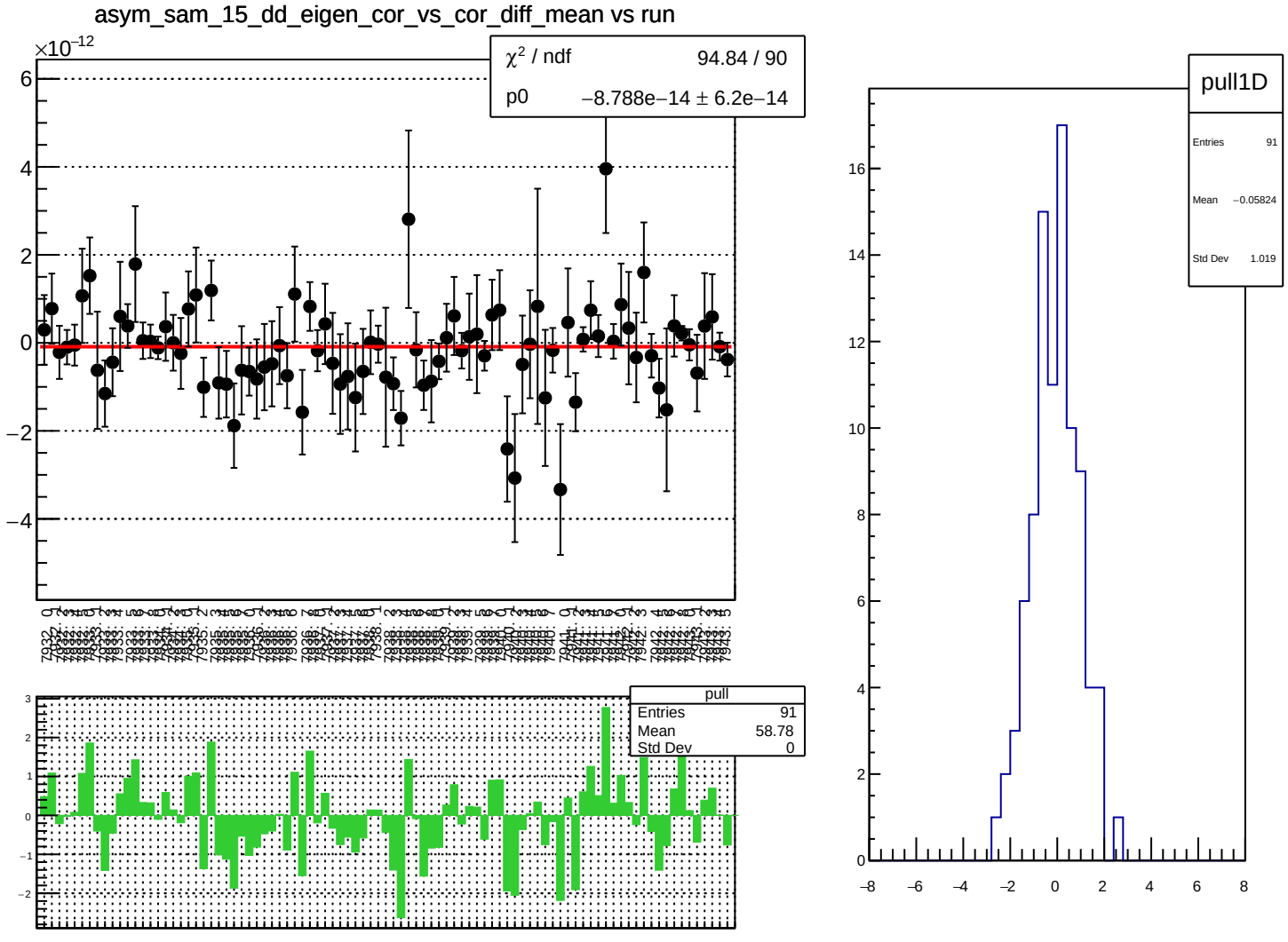

pull1D
Entries 91
Mean −0.007677
Std Dev 0.8403

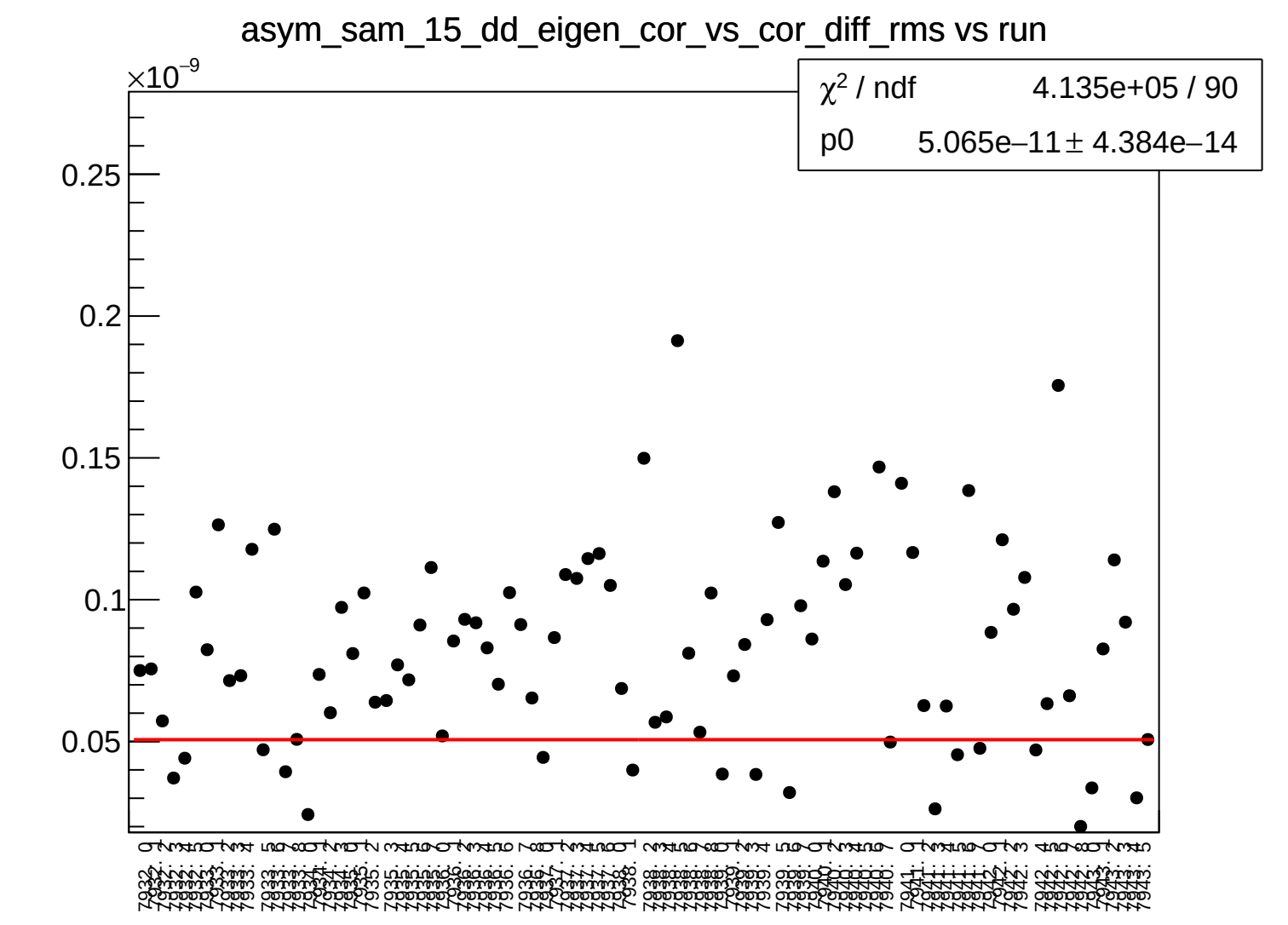

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4843 / 90
p0 42.98 ± 0.03255
48
46
44
42
40
38

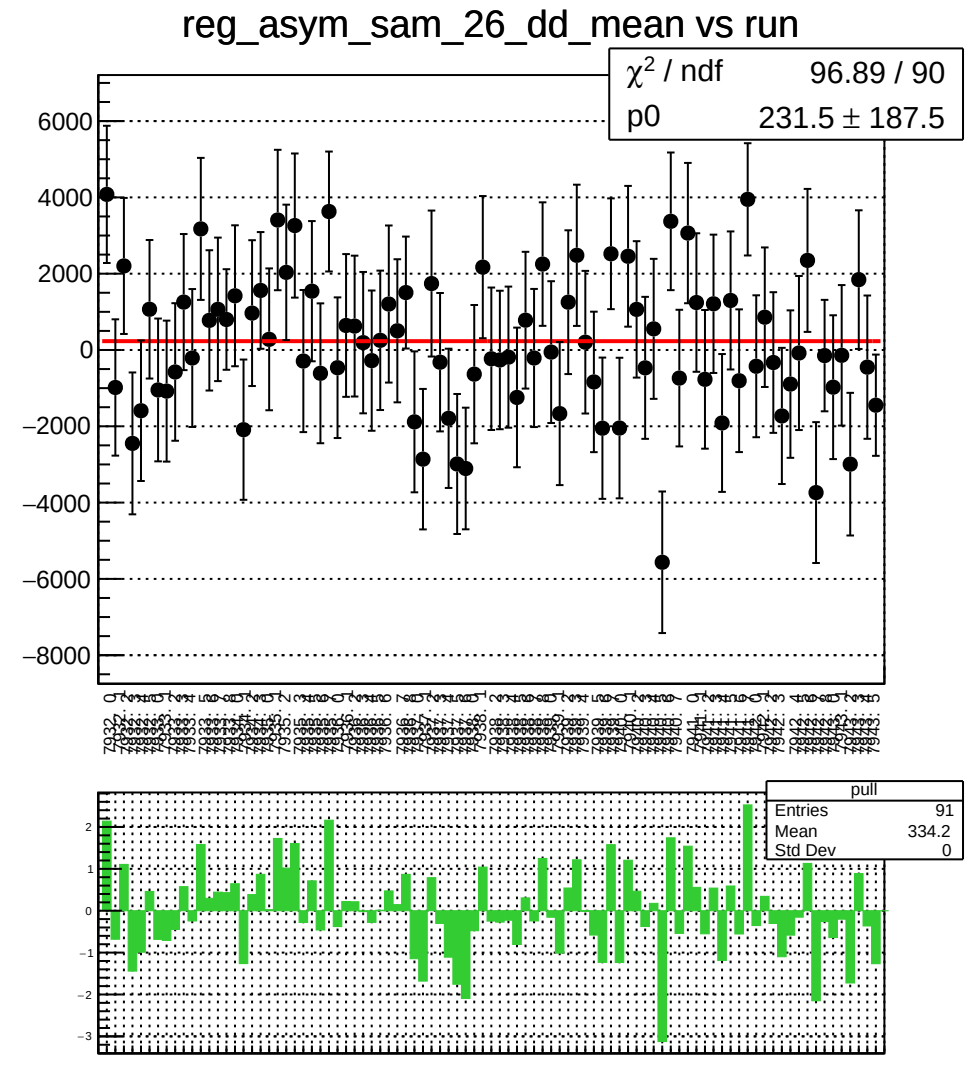

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.26 / 90
p0 −0.04492 ± 0.04604
pull
Entries 91
Mean −415.1
Std Dev 0

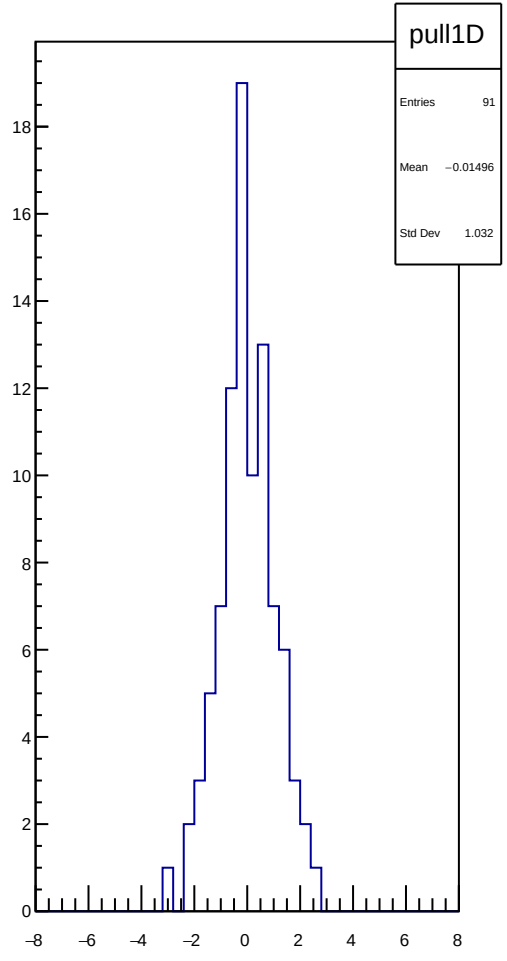

pull1D
Entries 91
Mean −0.007677
Std Dev 0.8403

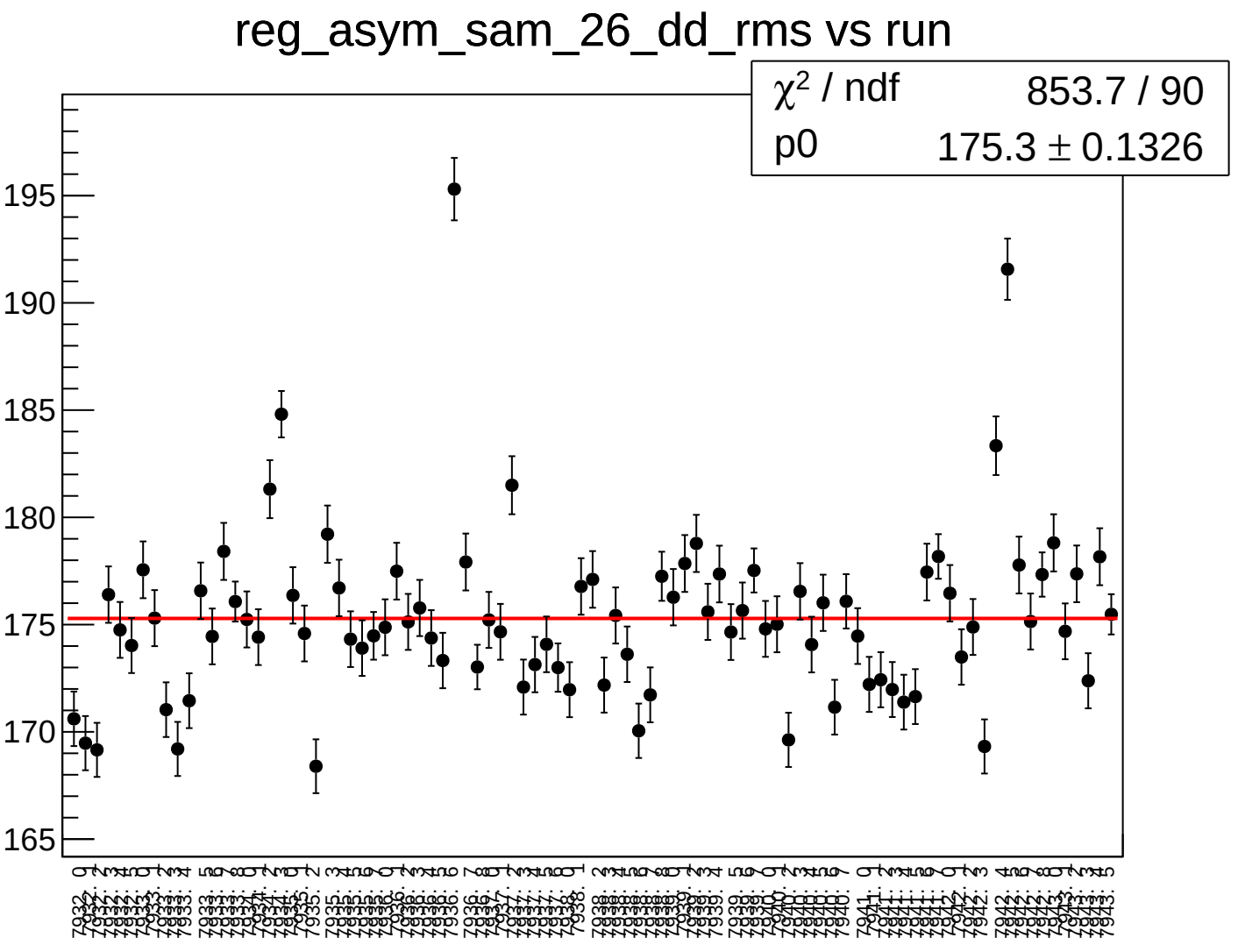

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4843 / 90
p0 42.98 ± 0.03255
48
46
44
42
40
38

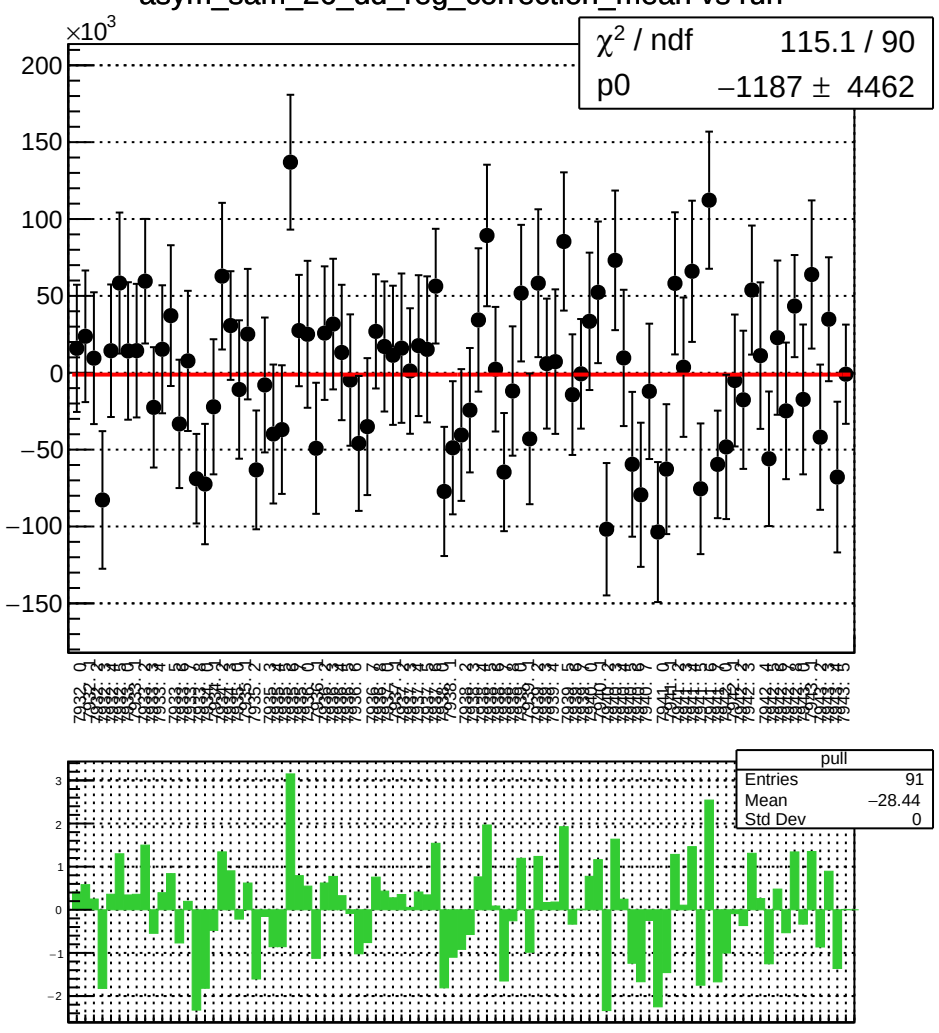

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.84 / 90
p0 −8.788e−14 ± 6.2e−14
pull
Entries 91
Mean 58.78
Std Dev 0
pull1D
Entries 91
Mean −0.05824
Std Dev 1.019

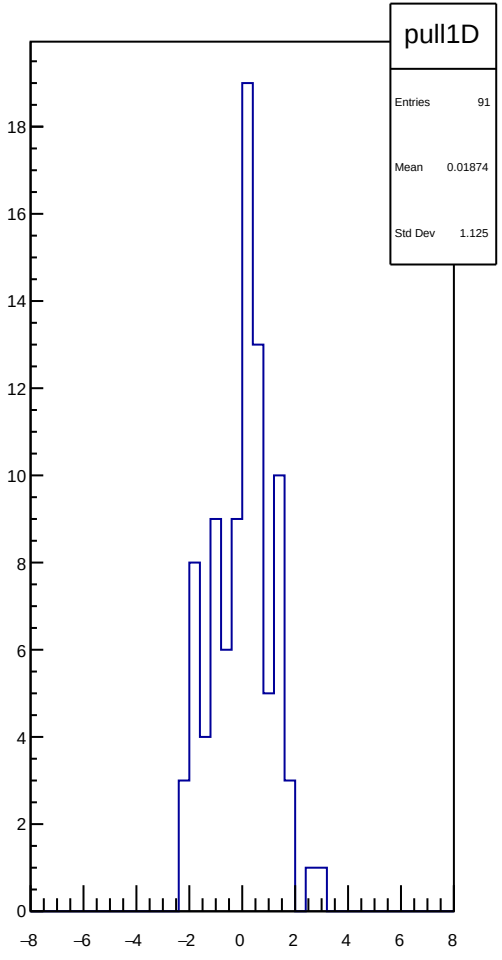

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.135e+05 / 90
p0 5.065e−11 ± 4.384e−14
0.25
0.2
0.15
0.1
0.05

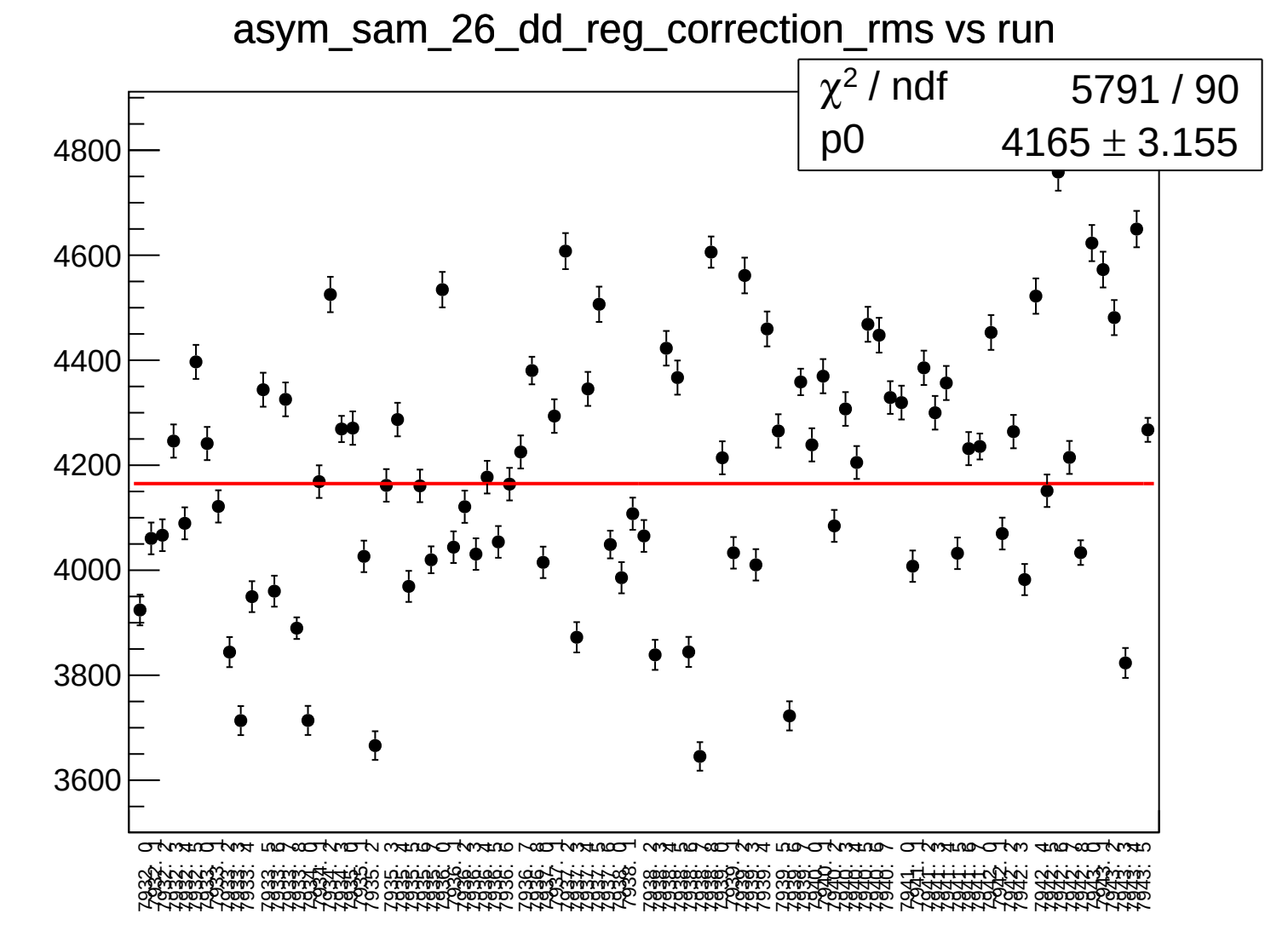

reg_asym_sam_26_dd_mean vs run
χ² / ndf 96.89 / 90
p0 231.5 ± 187.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean 334.2
Std Dev 0
2
1
0
−1
−2
−3

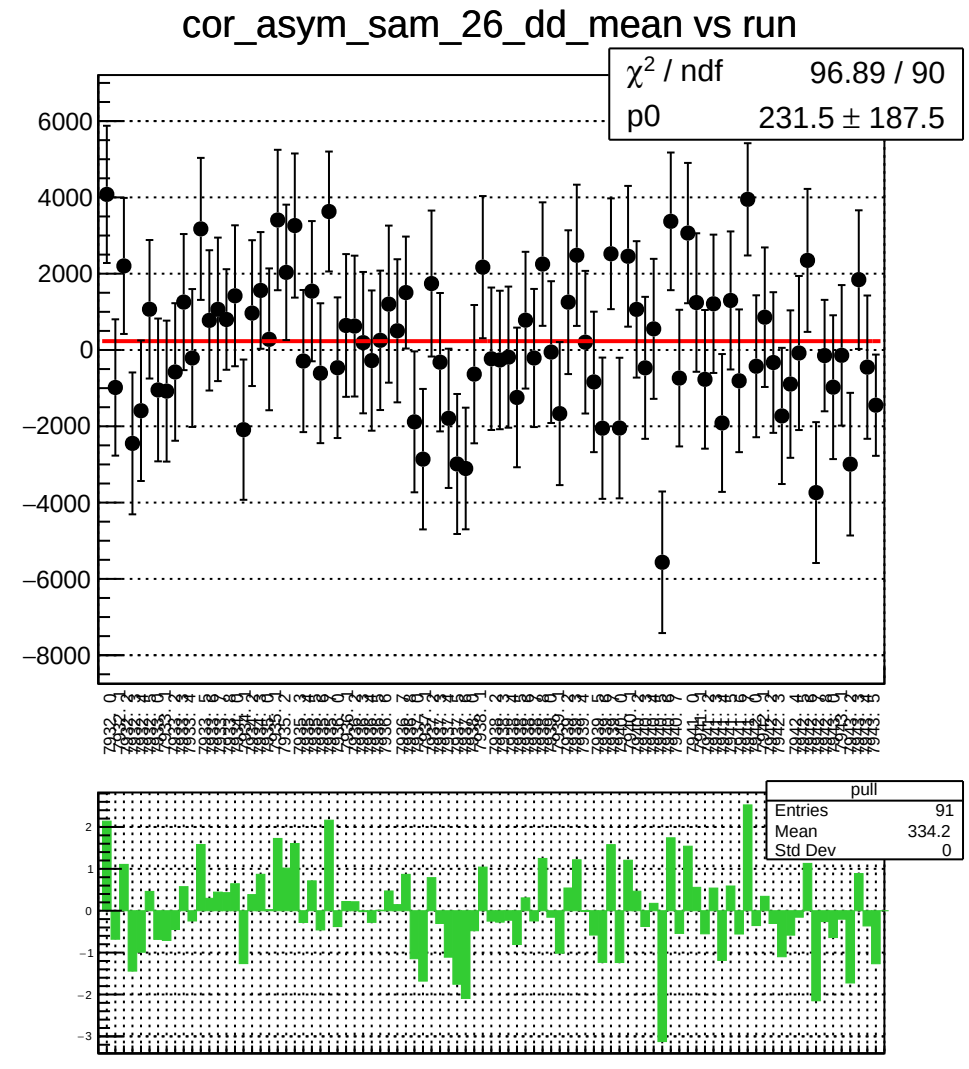

pull1D
Entries 91
Mean −0.01496
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

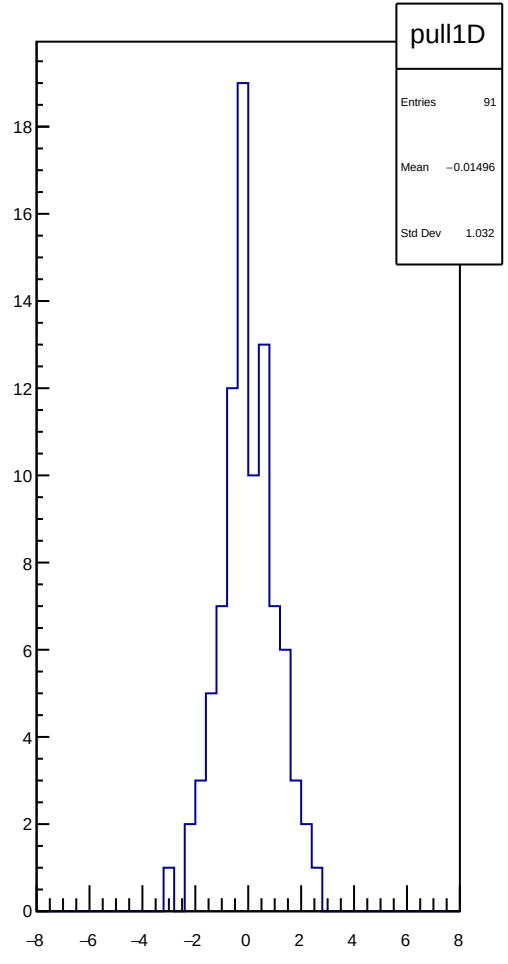

reg_asym_sam_26_dd_rms vs run
χ² / ndf 853.7 / 90
p0 175.3 ± 0.1326
195
190
185
180
175
170
165

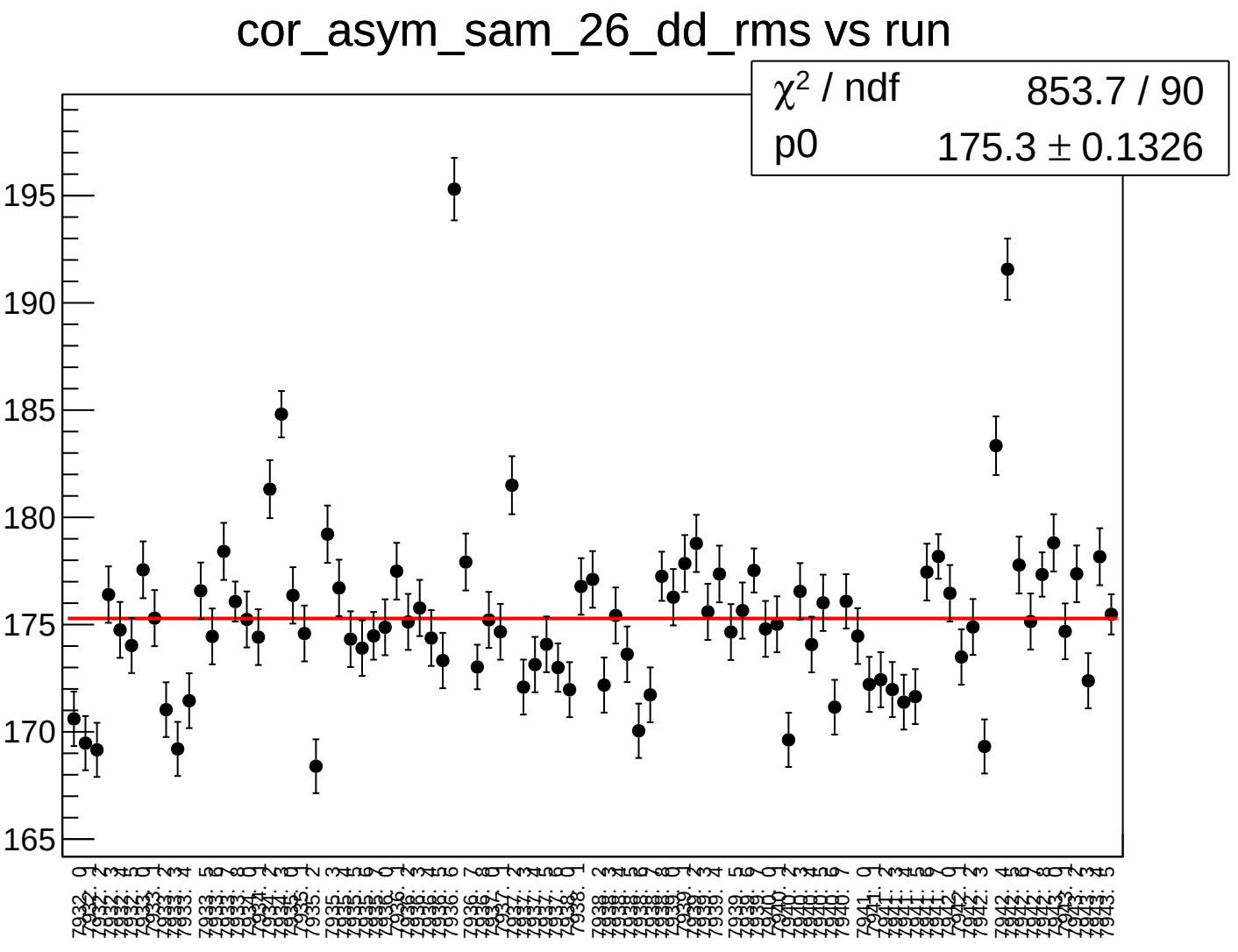

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 115.1 / 90
p0 −1187 ± 4462
pull
Entries 91
Mean −28.44
Std Dev 0

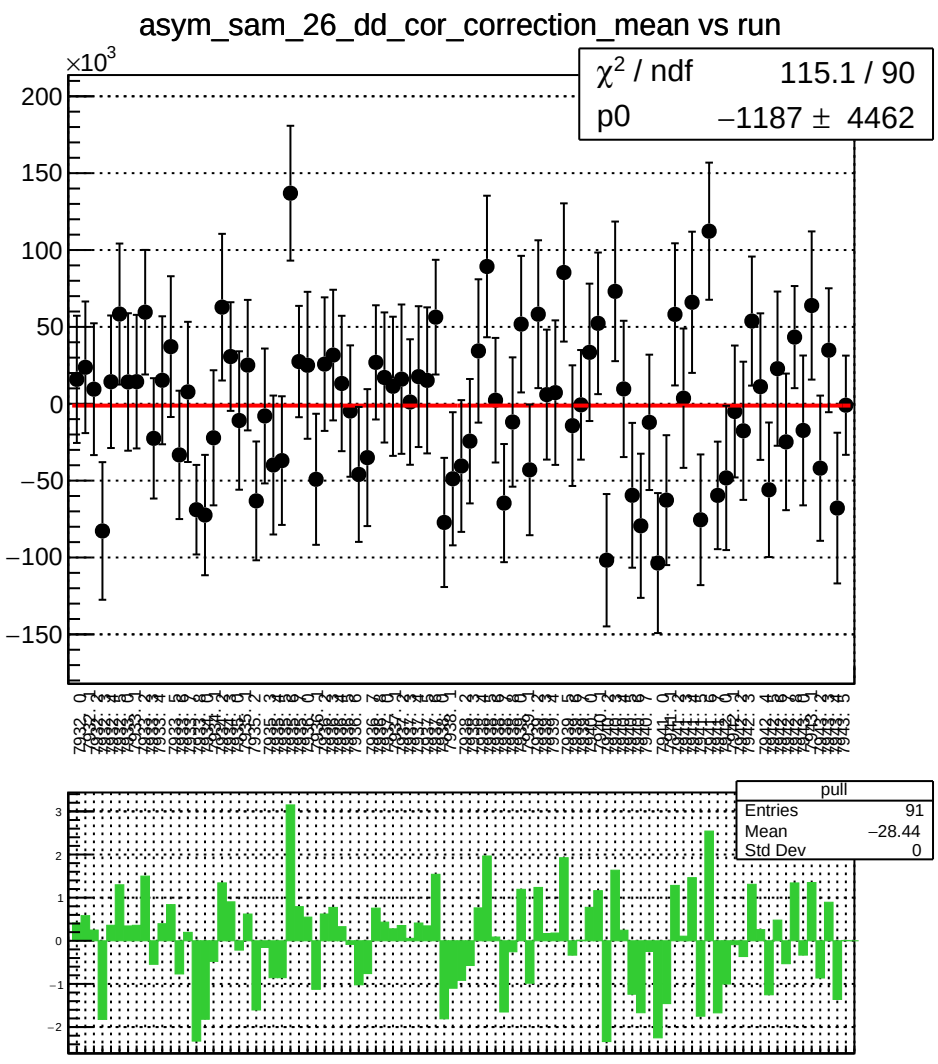

pull1D
Entries 91
Mean 0.01874
Std Dev 1.125

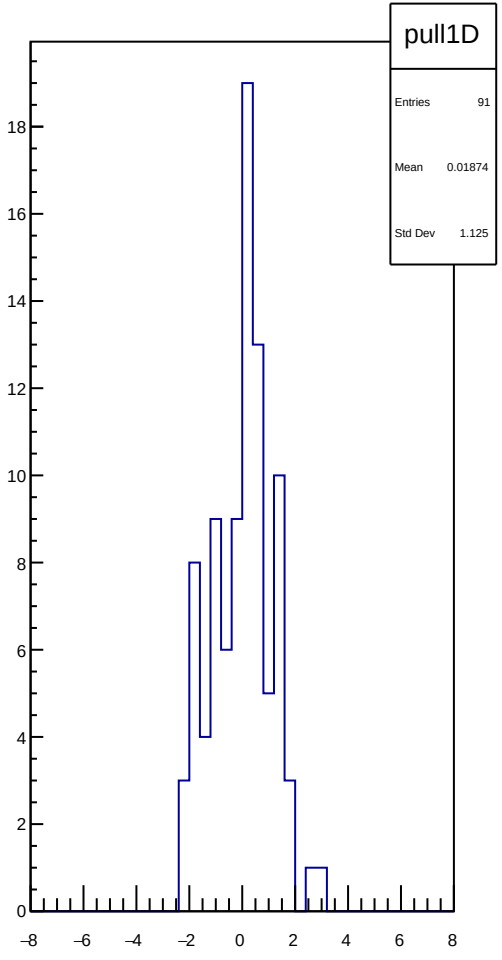

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5791 / 90
p0 4165 ± 3.155
4800
4600
4400
4200
4000
3800
3600

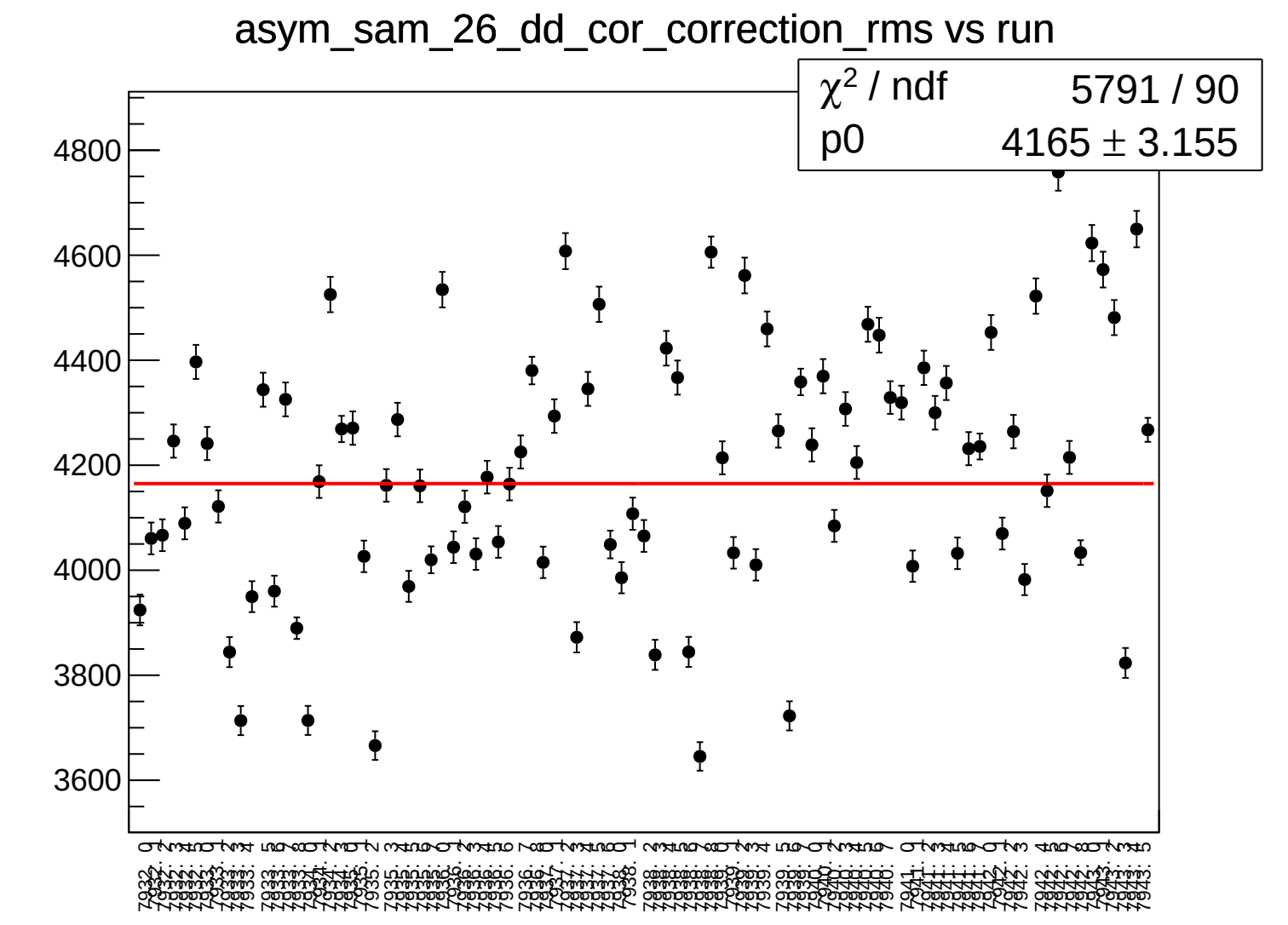

cor_asym_sam_26_dd_mean vs run
χ² / ndf 96.89 / 90
p0 231.5 ± 187.5
pull
Entries 91
Mean 334.2
Std Dev 0

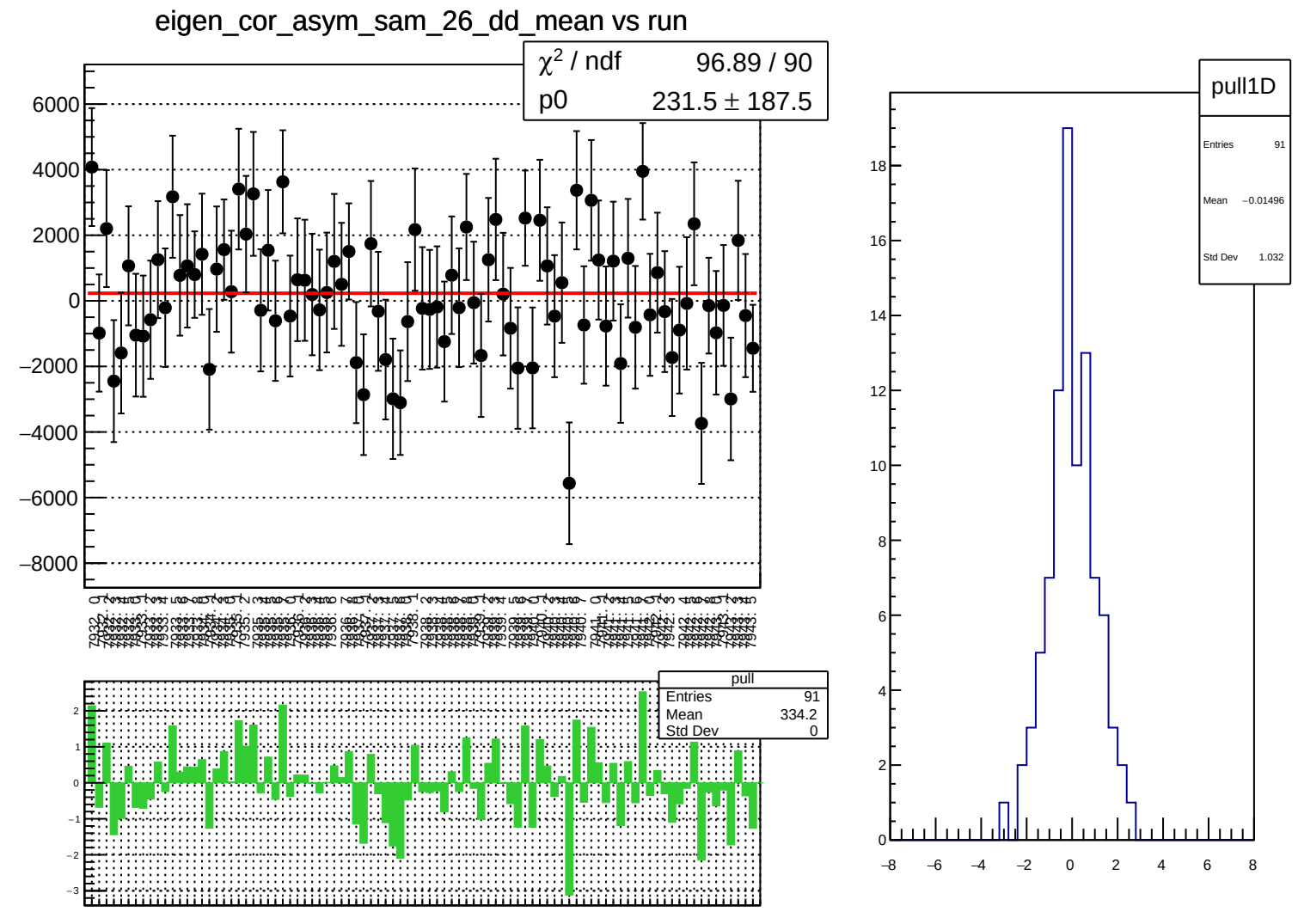

pull1D
Entries 91
Mean −0.01496
Std Dev 1.032

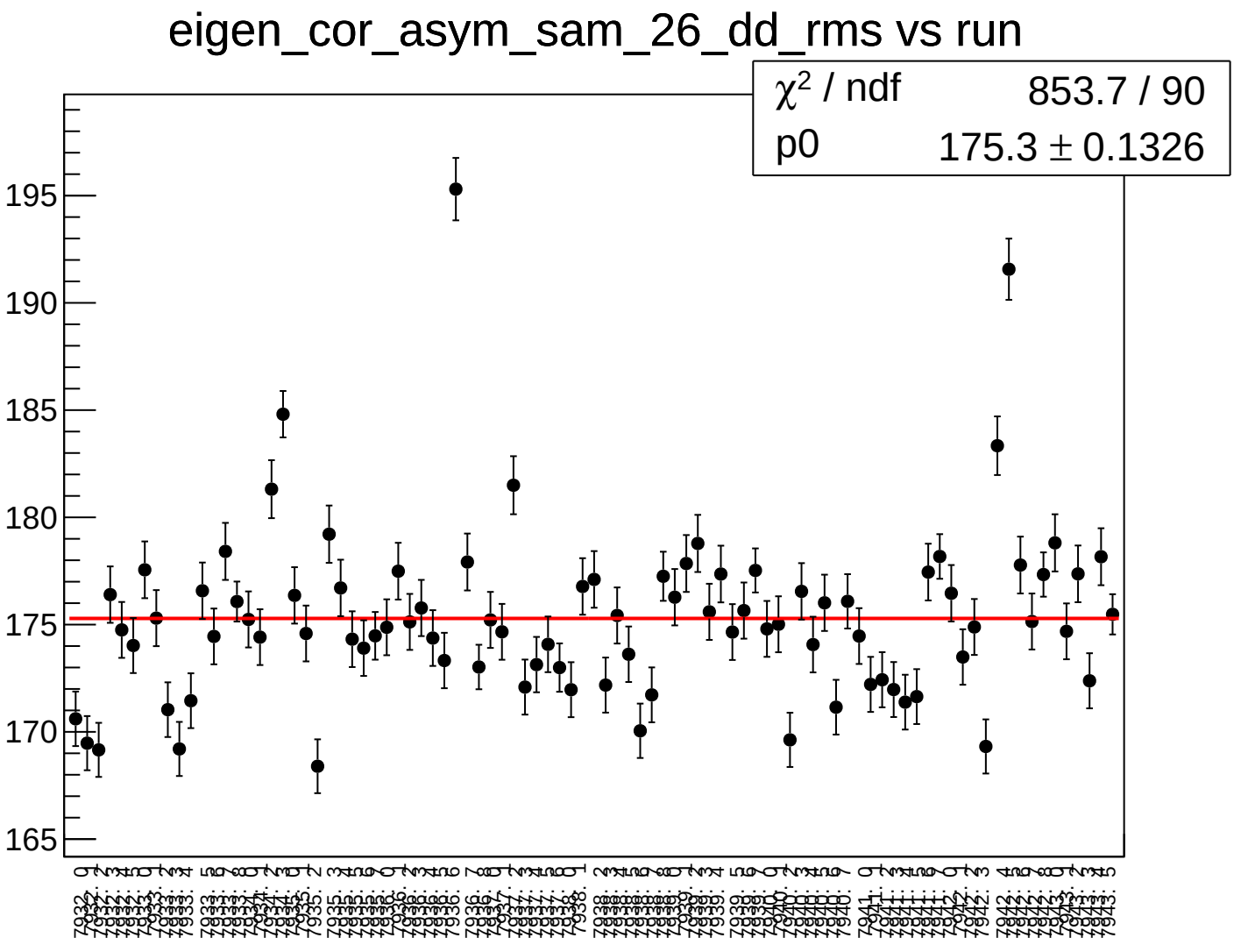

cor_asym_sam_26_dd_rms vs run
χ² / ndf 853.7 / 90
p0 175.3 ± 0.1326
195
190
185
180
175
170
165

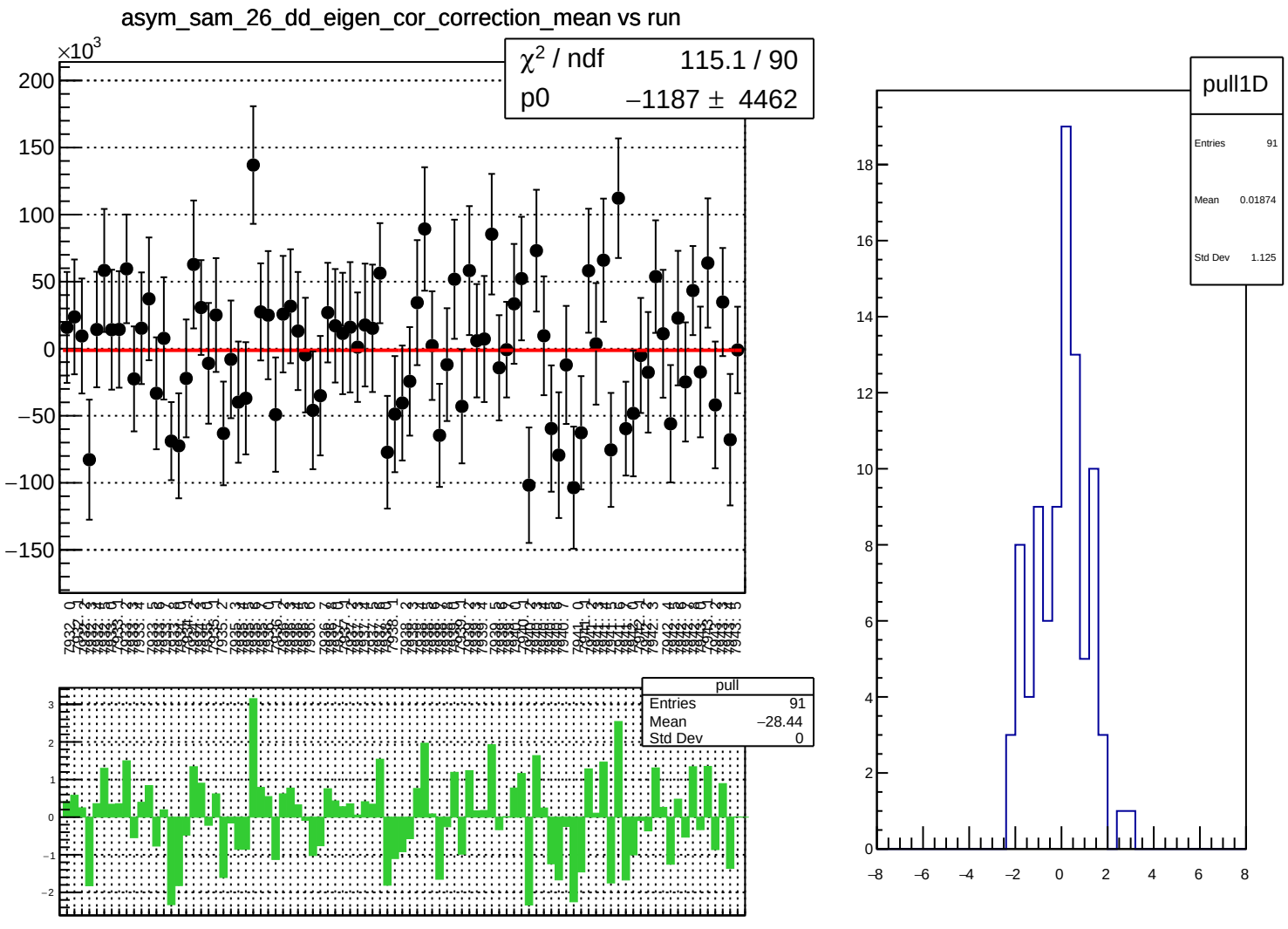

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 115.1 / 90
p0 −1187 ± 4462
200
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −28.44
Std Dev 0
3
2
1
0
−1
−2

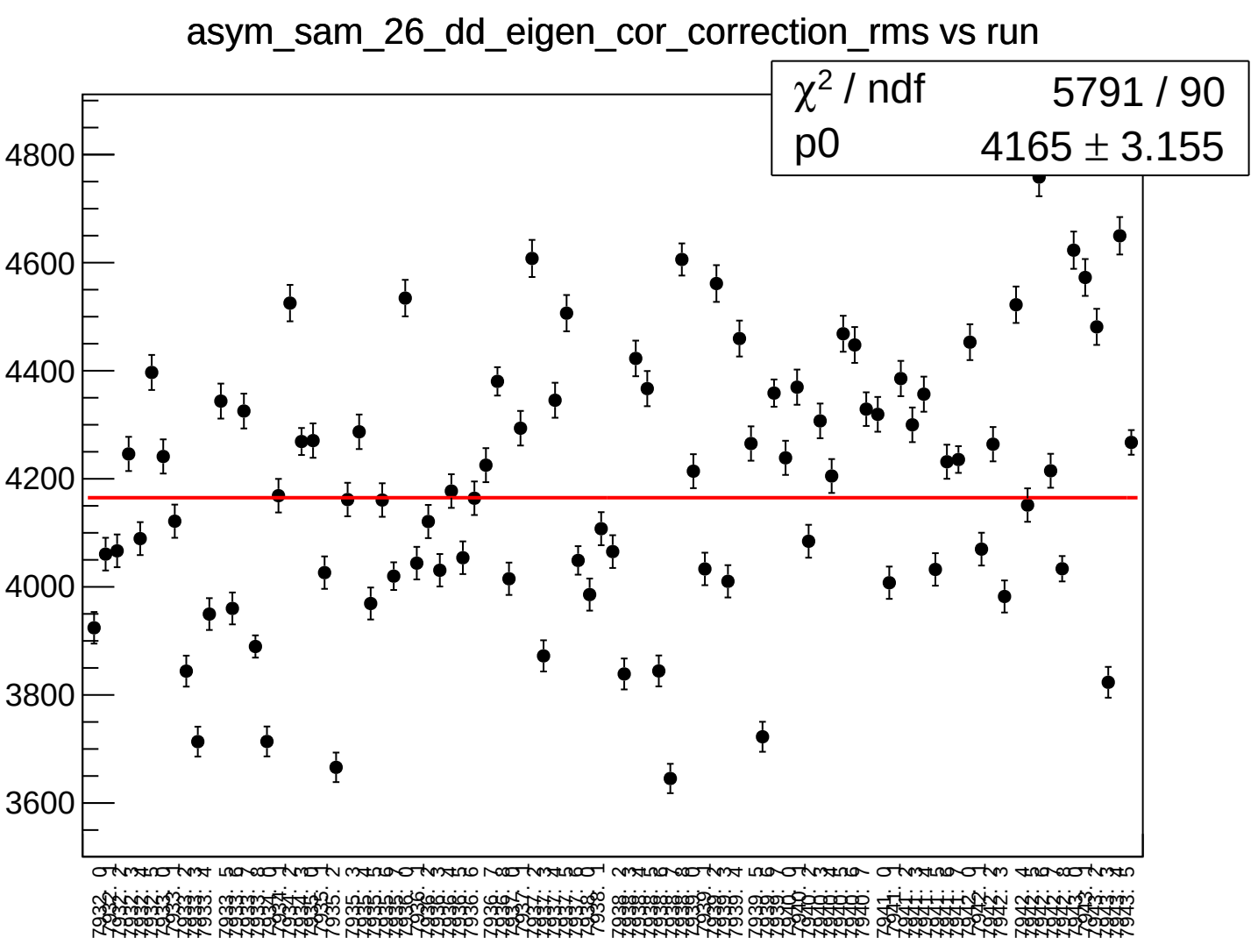

pull1D
Entries 91
Mean 0.01874
Std Dev 1.125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

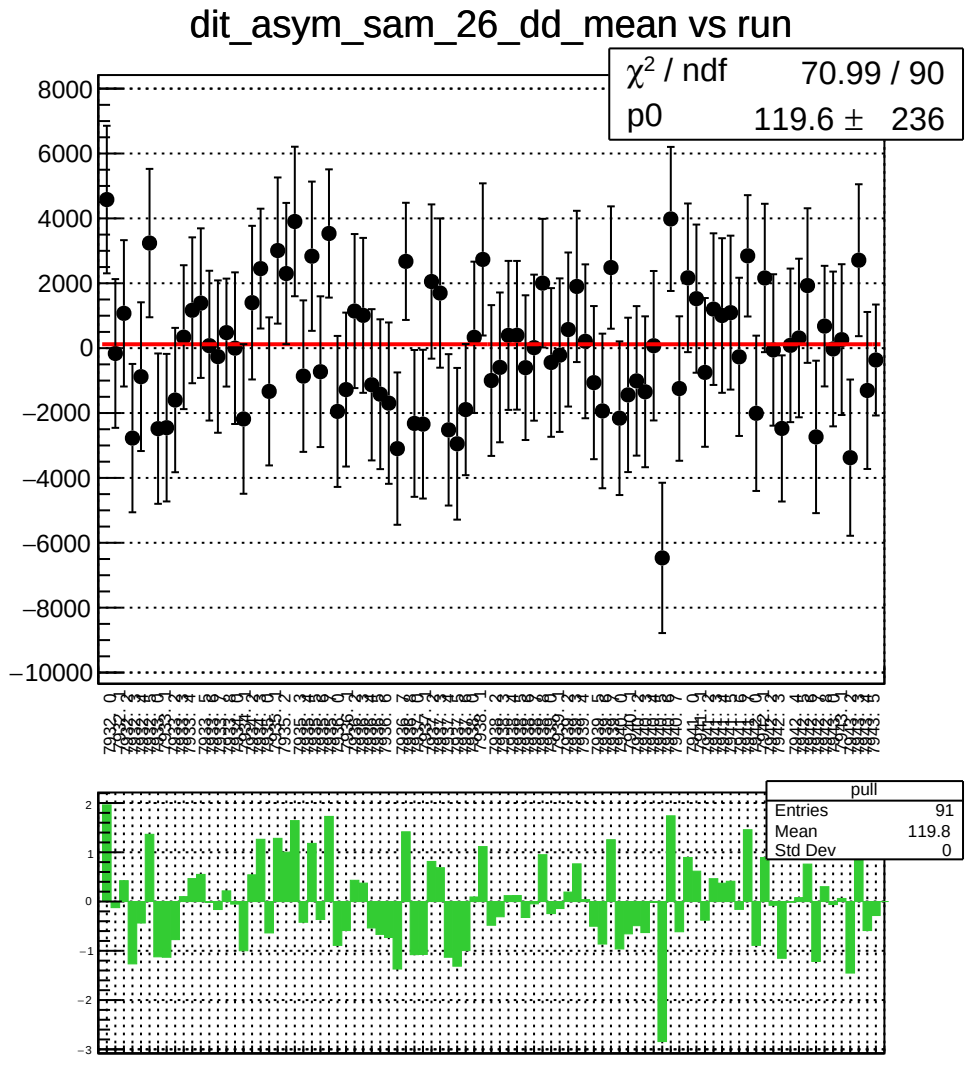

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5791 / 90
p0 4165 ± 3.155
4800
4600
4400
4200
4000
3800
3600

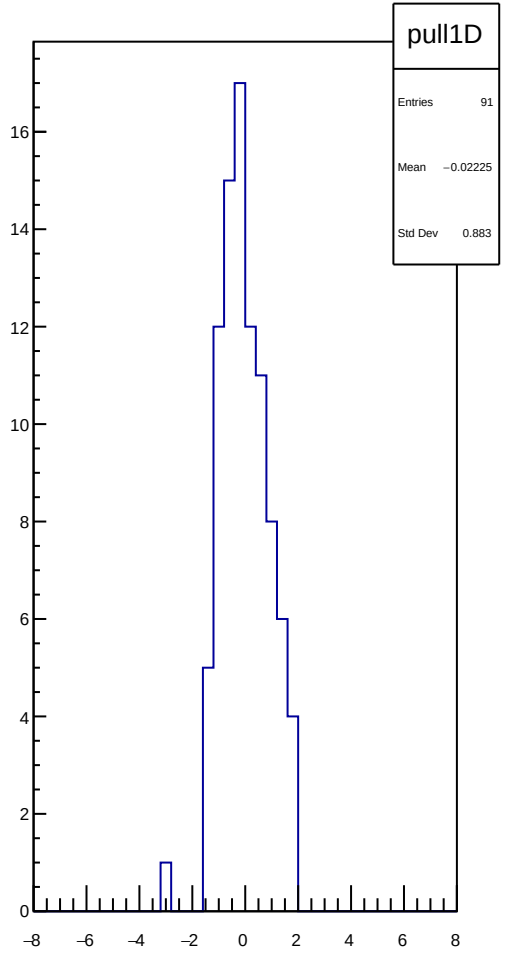

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 96.89 / 90
p0 231.5 ± 187.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean 334.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01496
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

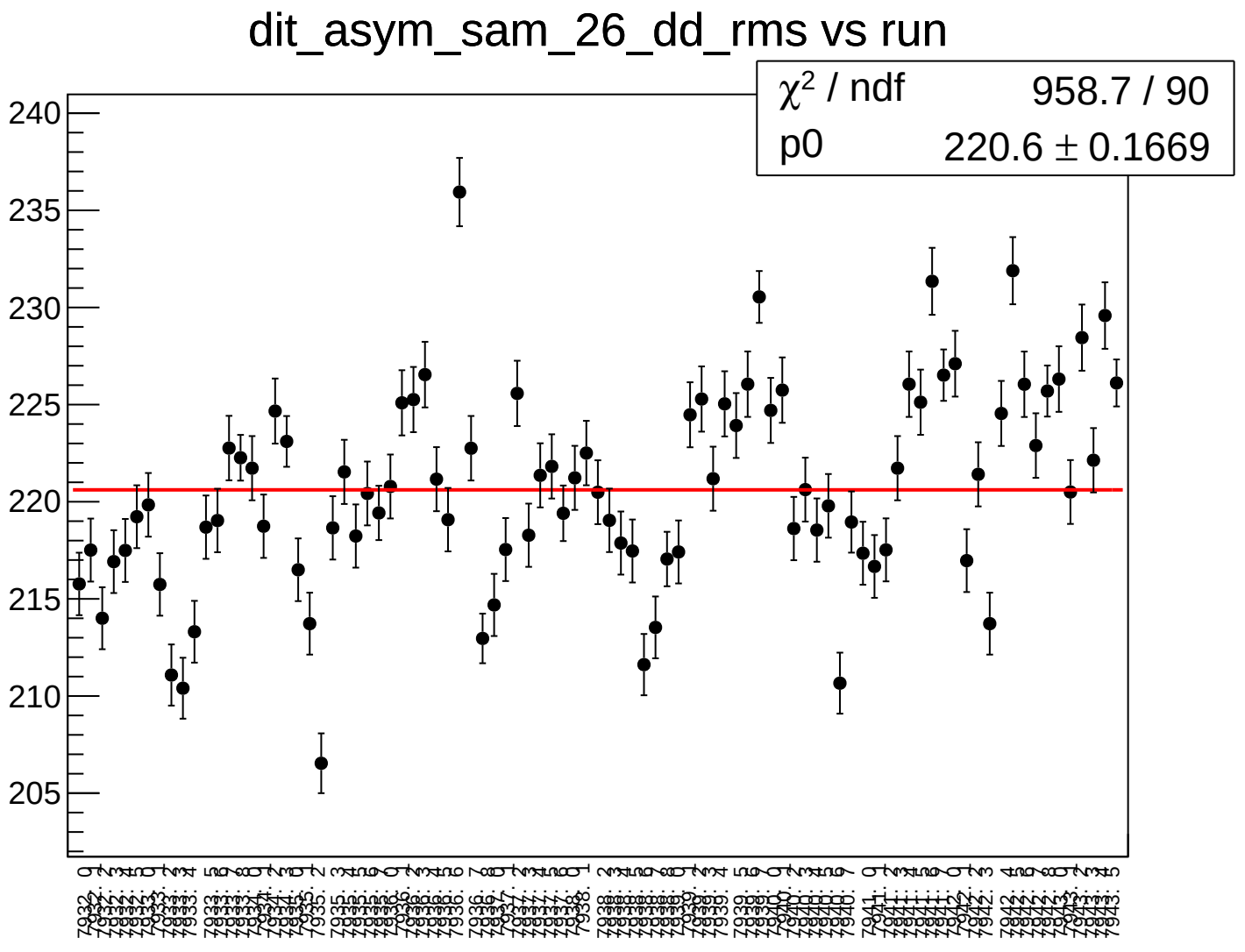

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 853.7 / 90
p0 175.3 ± 0.1326
195
190
185
180
175
170
165

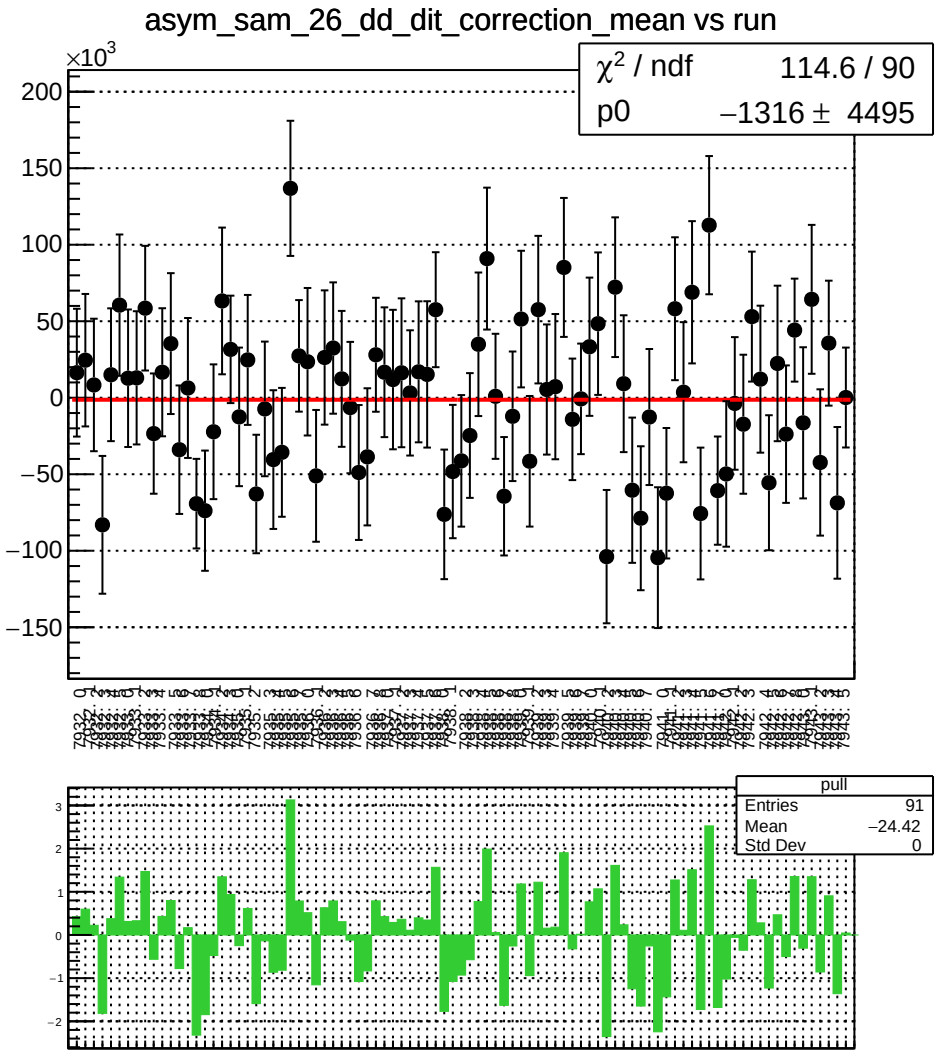

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 115.1 / 90
p0 −1187 ± 4462
pull
Entries 91
Mean −28.44
Std Dev 0
pull1D
Entries 91
Mean 0.01874
Std Dev 1.125

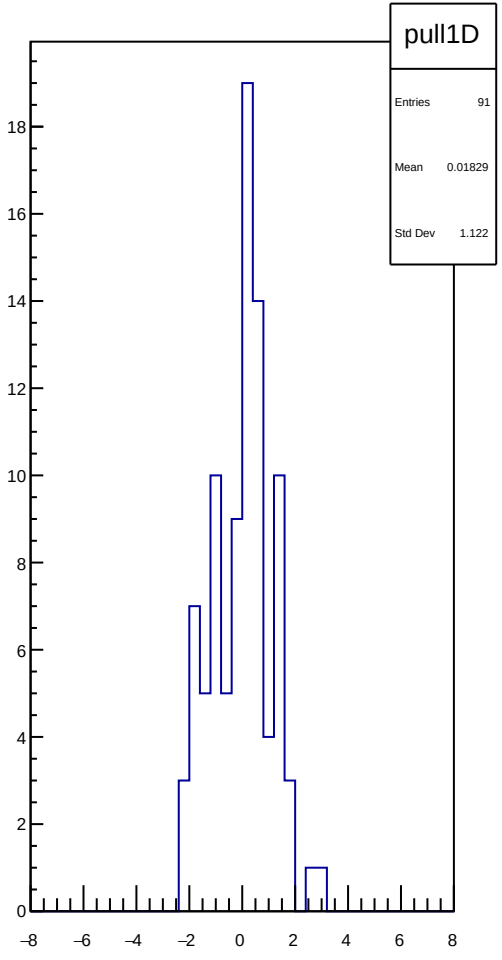

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5791 / 90
p0 4165 ± 3.155
4800
4600
4400
4200
4000
3800
3600

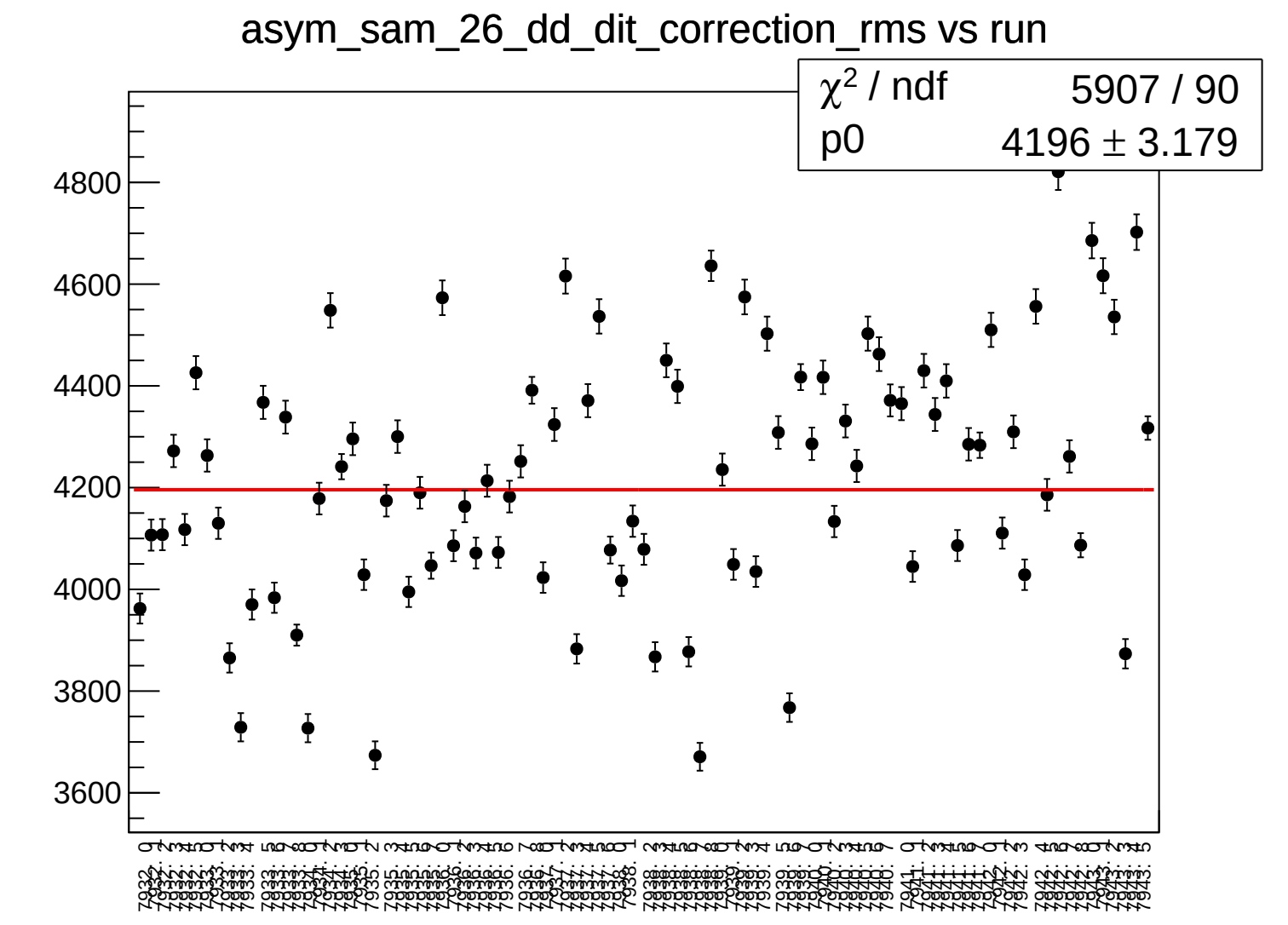

dit_asym_sam_26_dd_mean vs run
χ² / ndf 70.99 / 90
p0 119.6 ± 236
pull
Entries 91
Mean 119.8
Std Dev 0

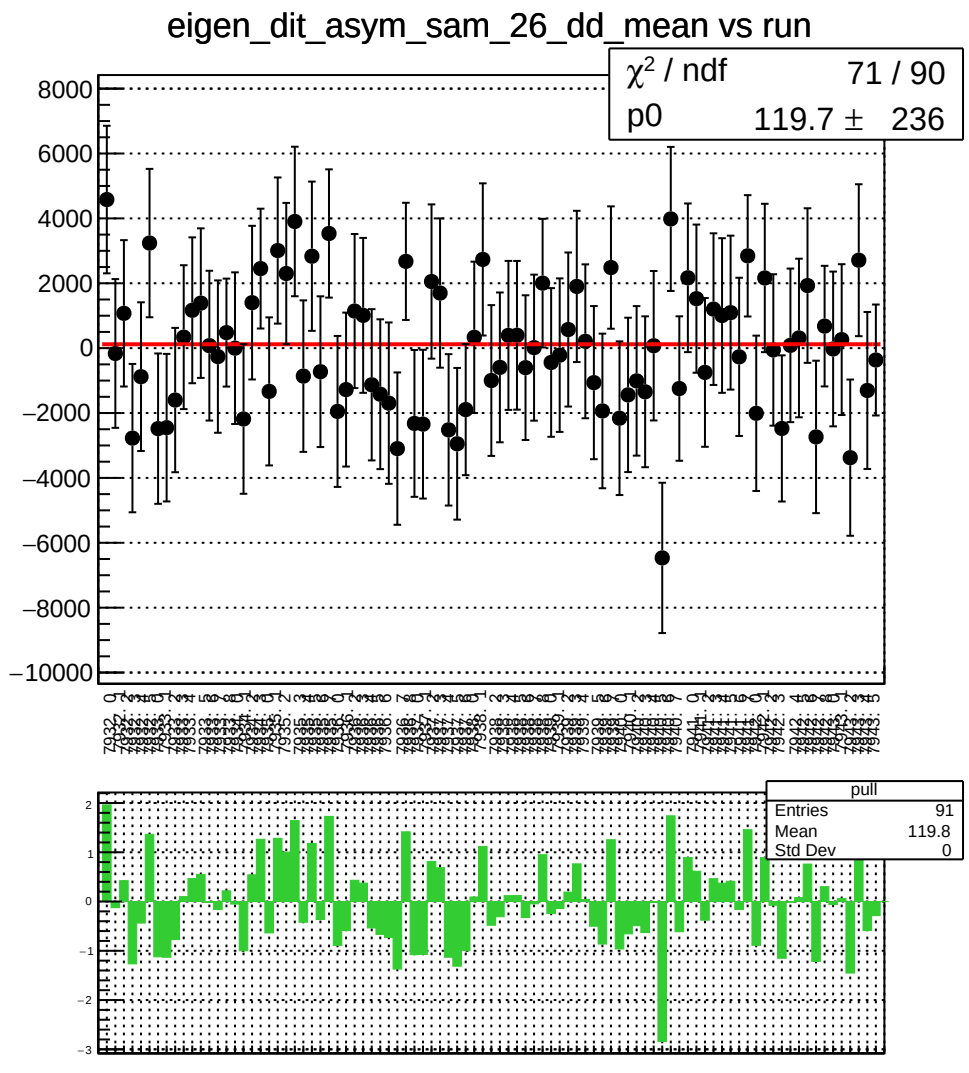

pull1D
Entries 91
Mean −0.02225
Std Dev 0.883

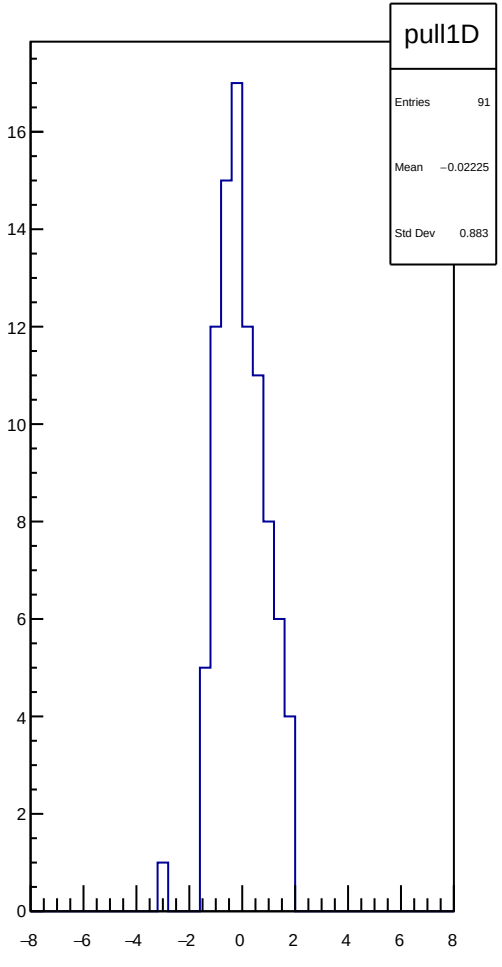

dit_asym_sam_26_dd_rms vs run
χ² / ndf 958.7 / 90
p0 220.6 ± 0.1669
240
235
230
225
220
215
210
205

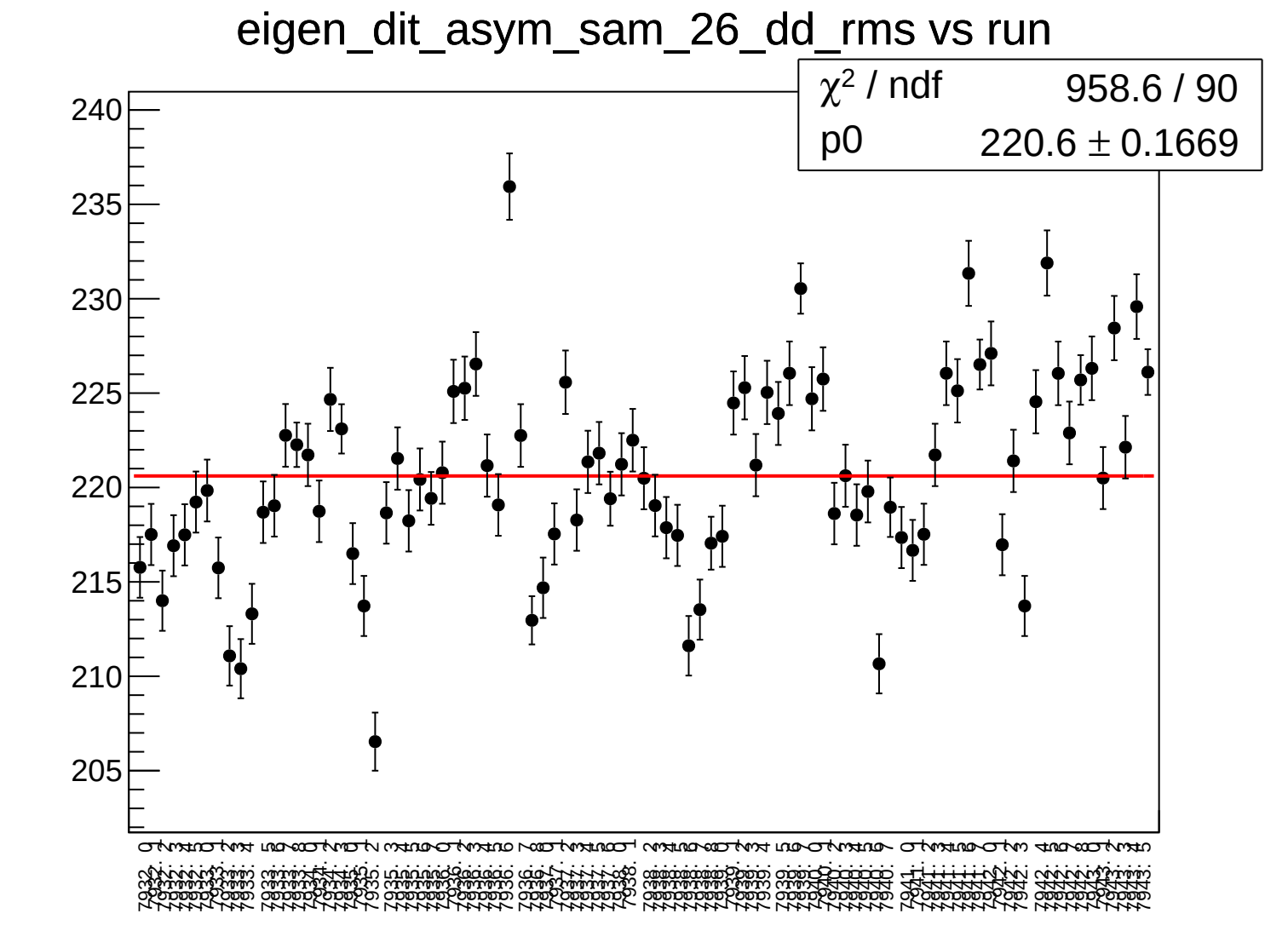

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 114.6 / 90
p0 −1316 ± 4495
pull
Entries 91
Mean −24.42
Std Dev 0

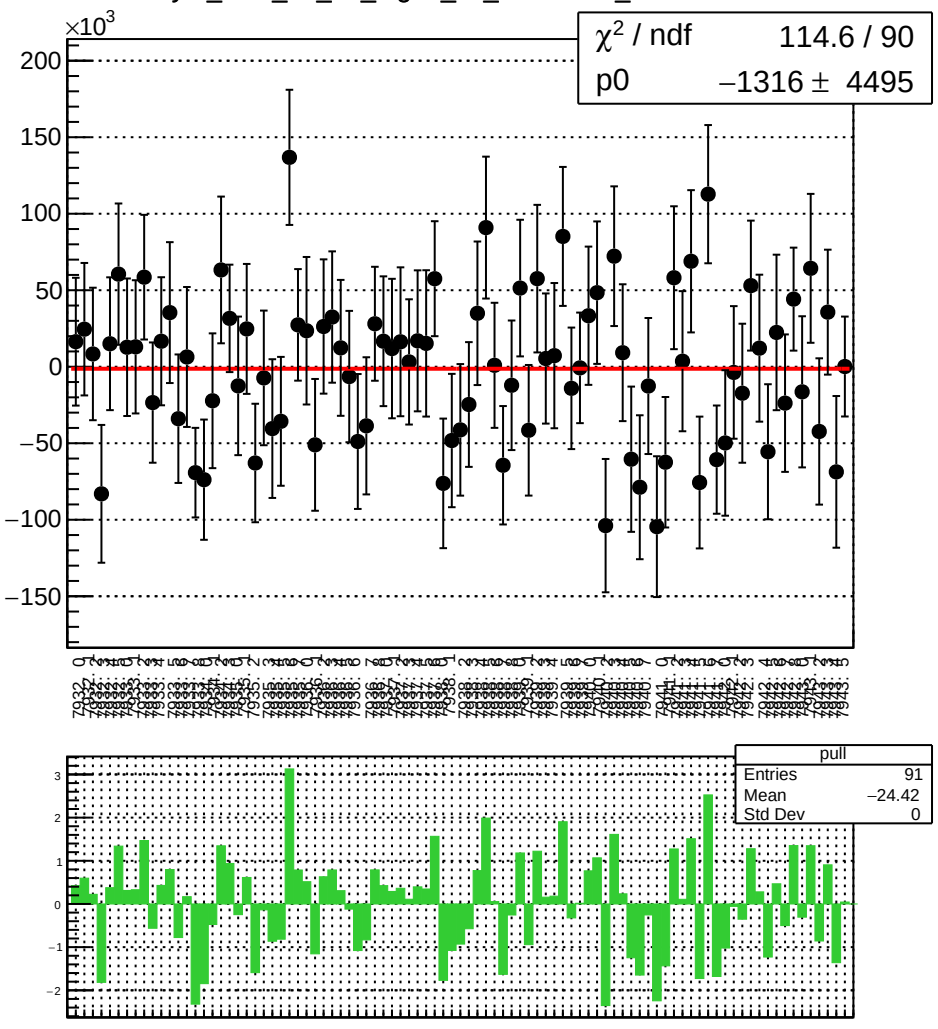

pull1D
Entries 91
Mean 0.01829
Std Dev 1.122

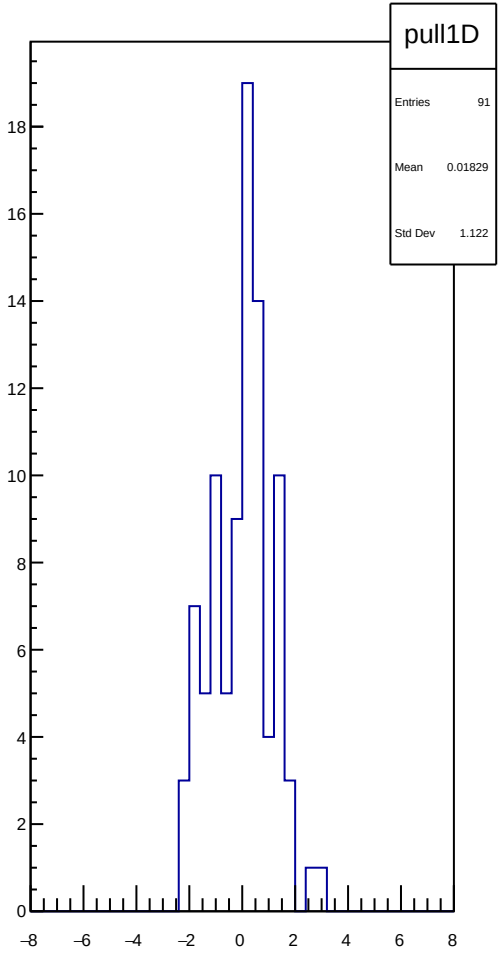

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 5907 / 90
p0 4196 ± 3.179
4800
4600
4400
4200
4000
3800
3600

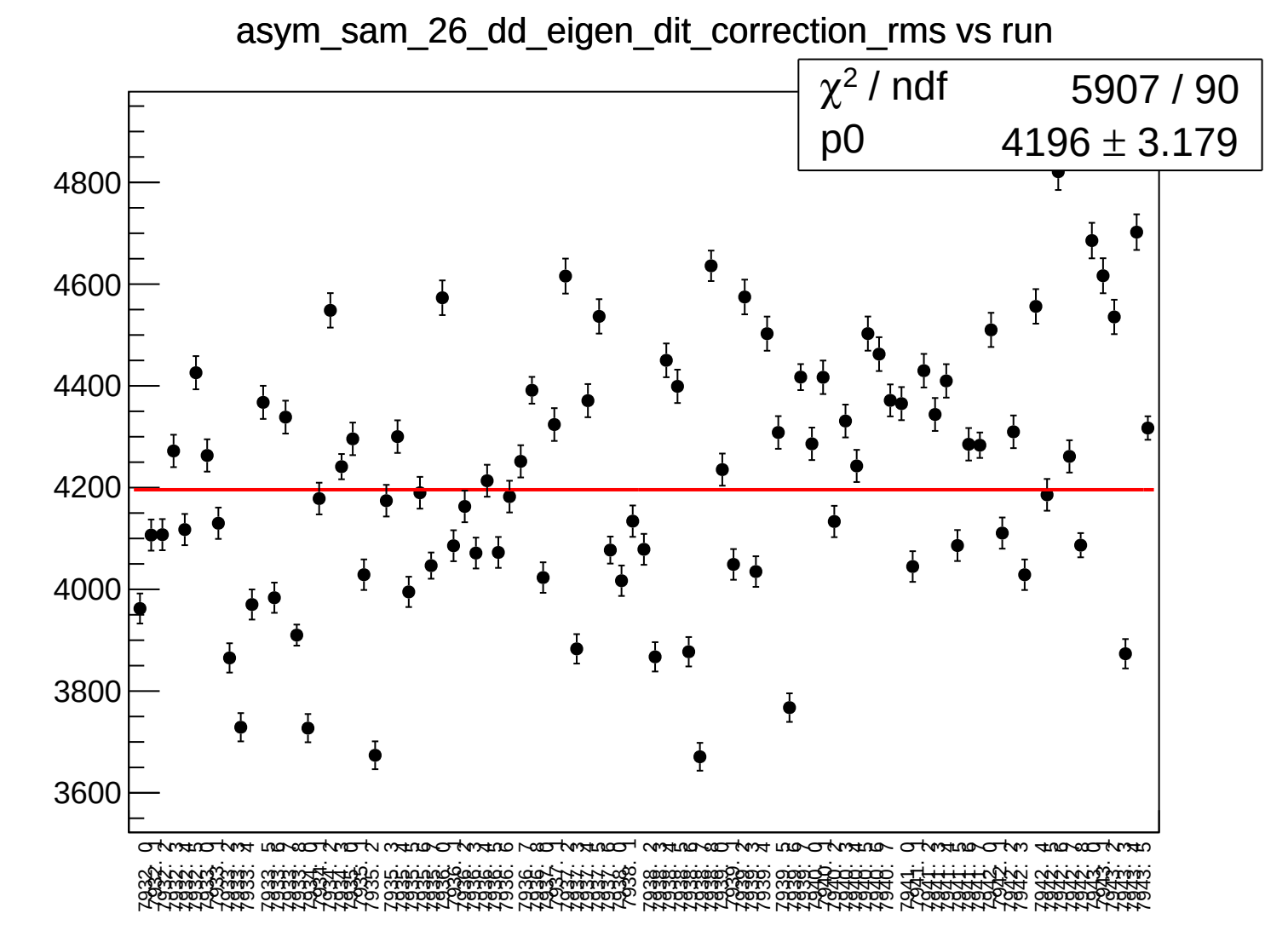

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 71 / 90
p0 119.7 ± 236
pull
Entries 91
Mean 119.8
Std Dev 0

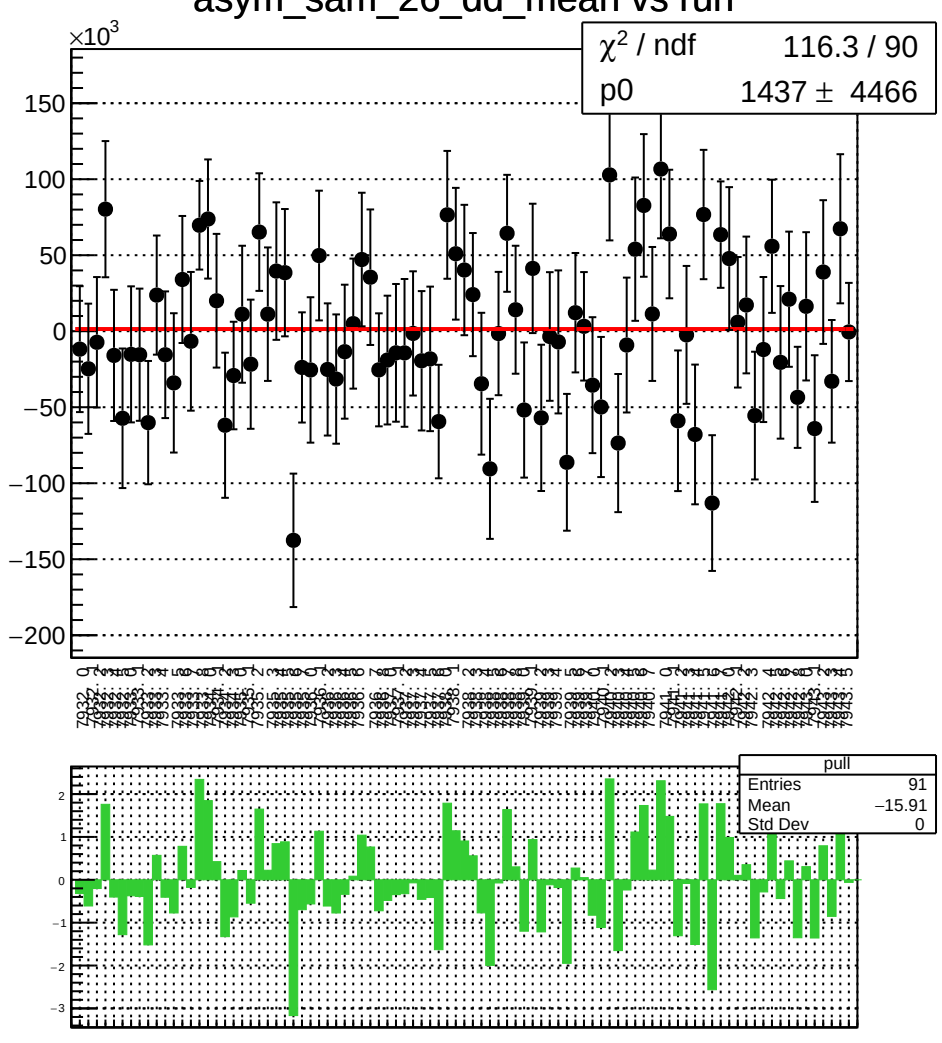

pull1D
Entries 91
Mean −0.02225
Std Dev 0.883

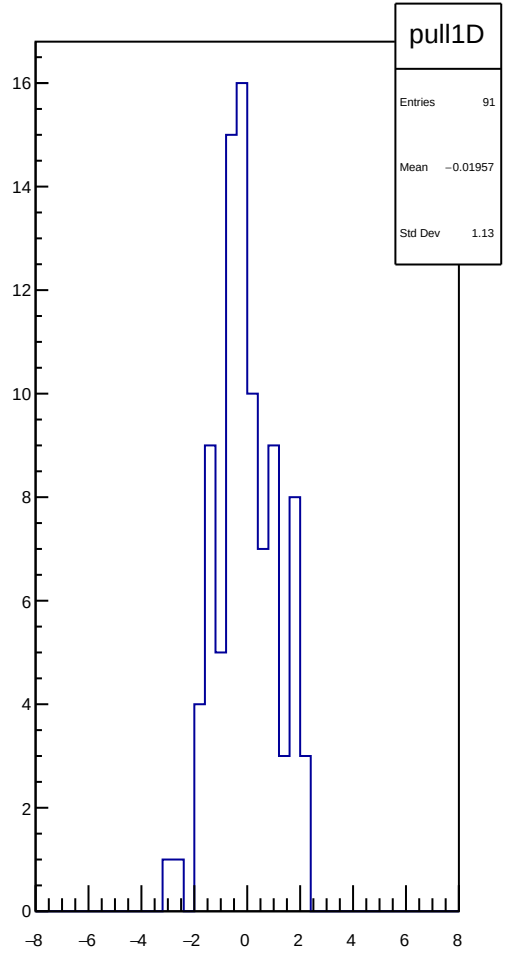

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 958.6 / 90
p0 220.6 ± 0.1669
240
235
230
225
220
215
210
205

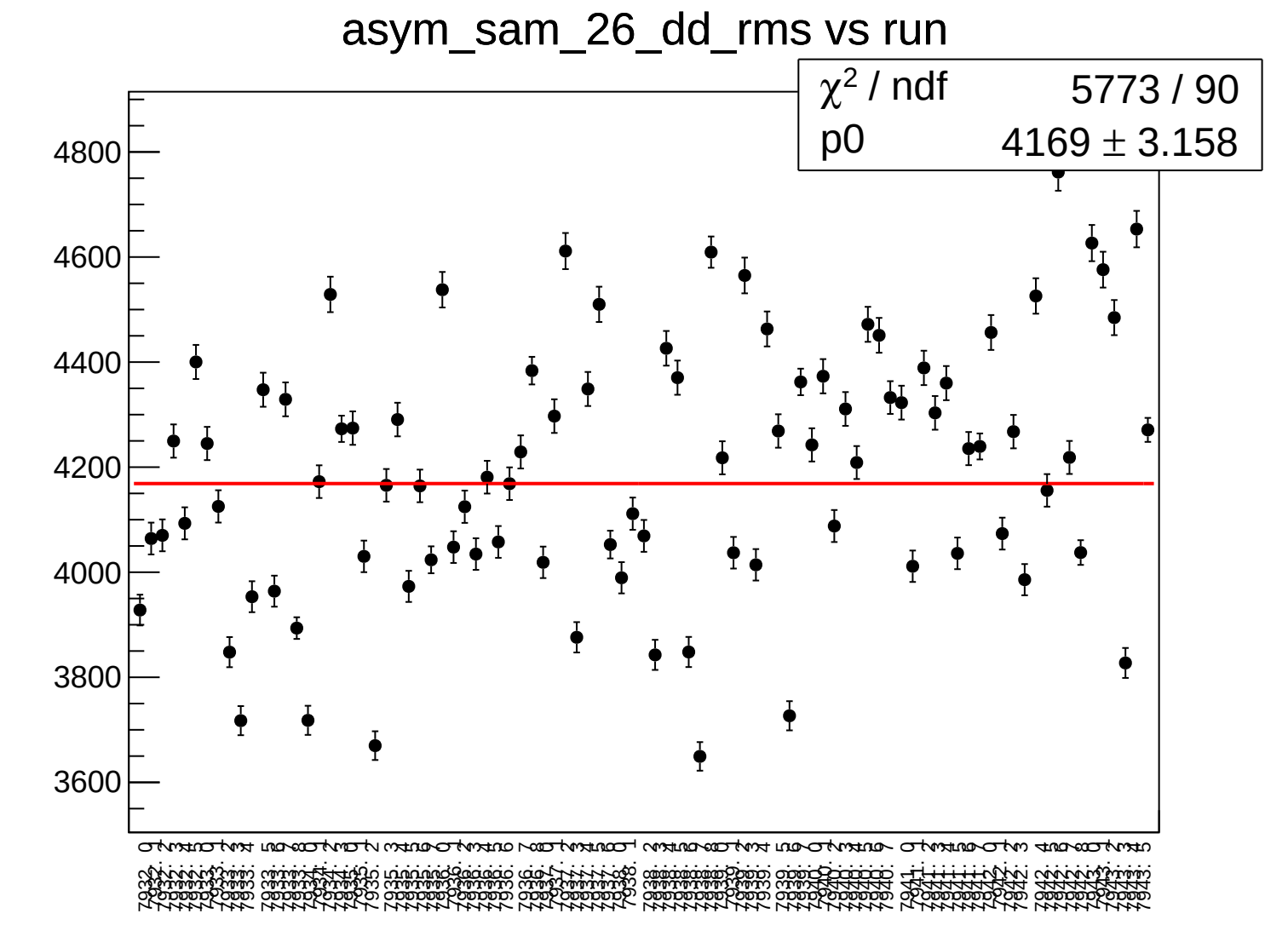

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.6 / 90
p0 −1316 ± 4495
pull
Entries 91
Mean −24.42
Std Dev 0

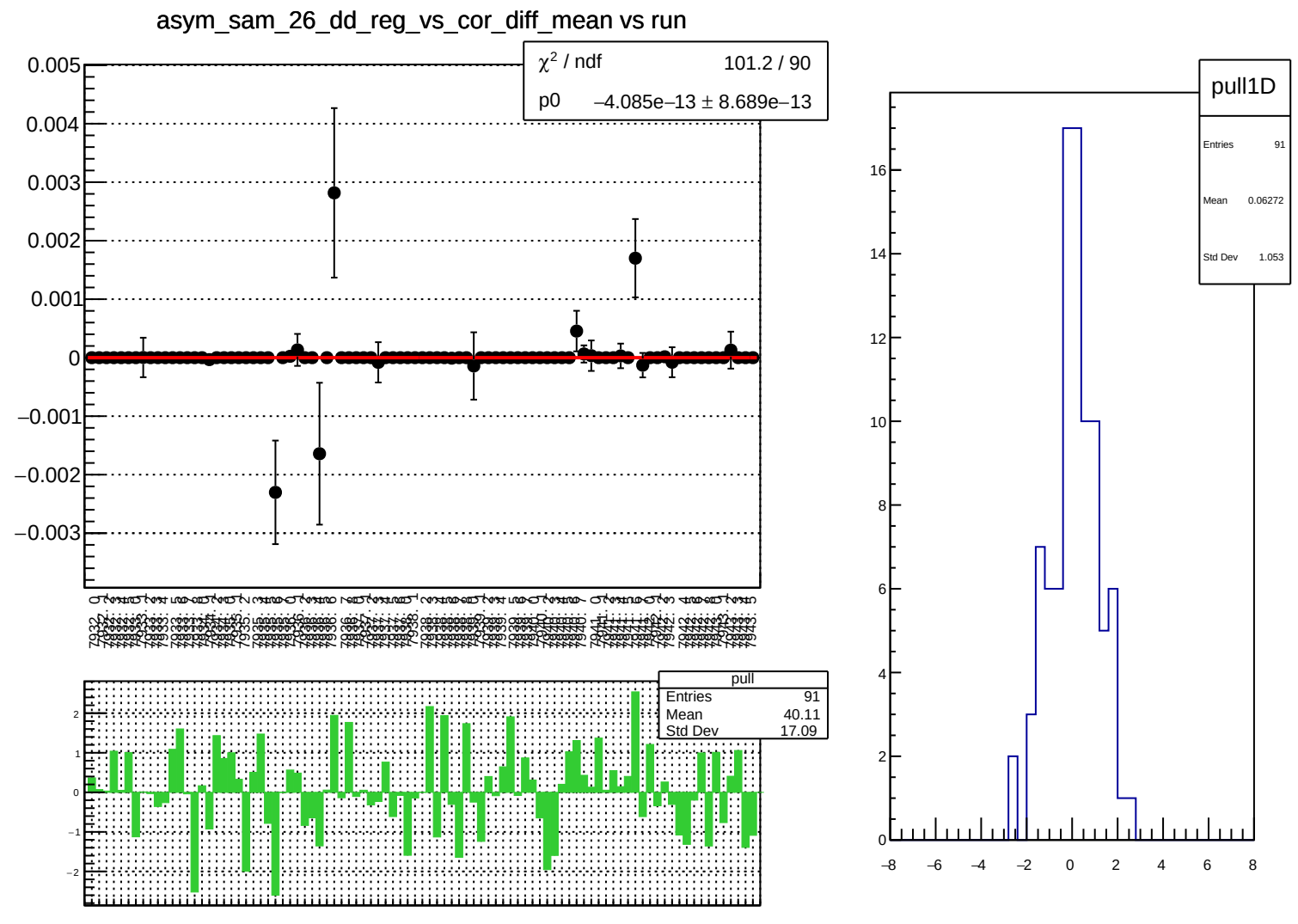

pull1D
Entries 91
Mean 0.01829
Std Dev 1.122

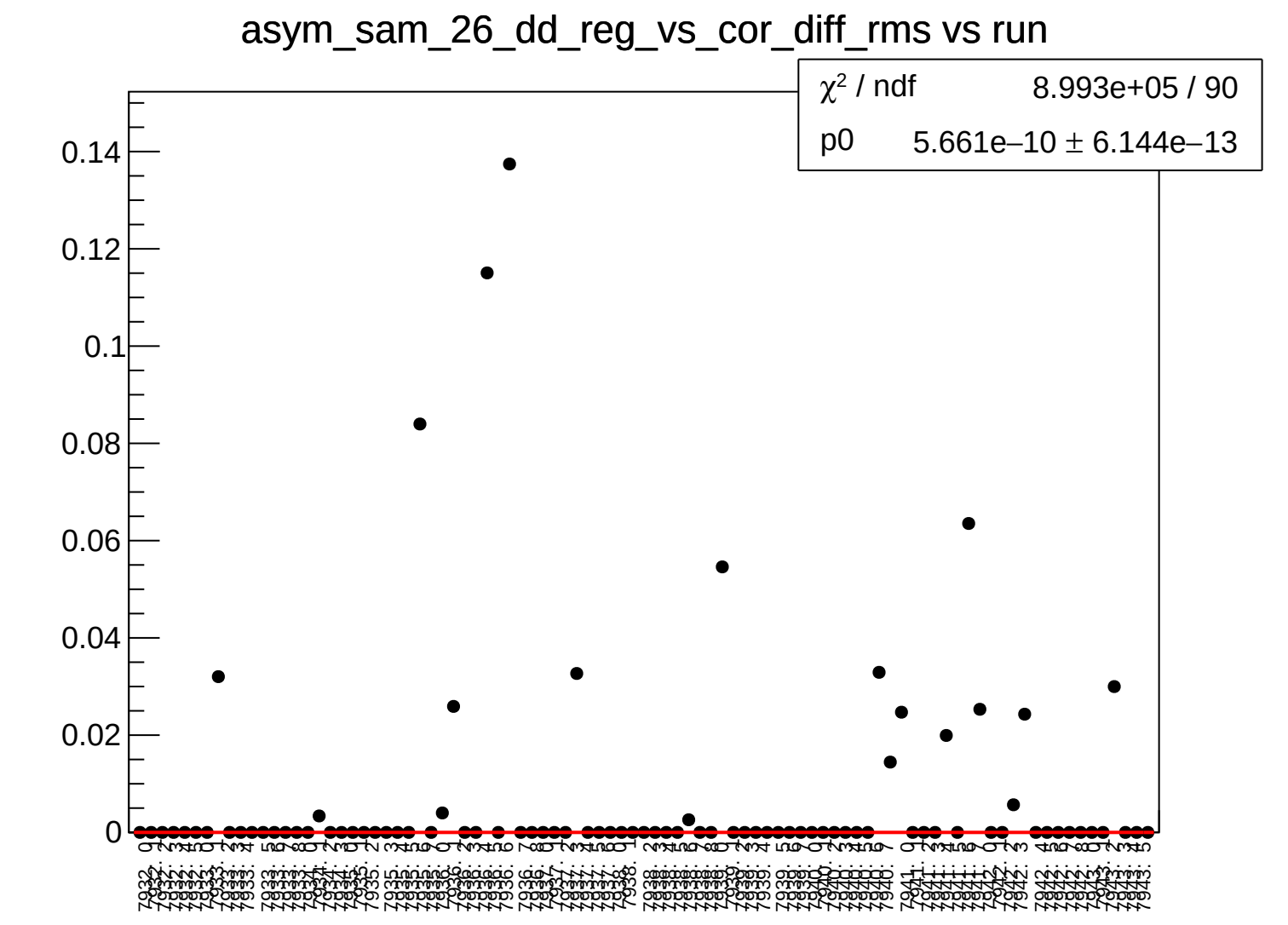

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5907 / 90
p0 4196 ± 3.179
4800
4600
4400
4200
4000
3800
3600

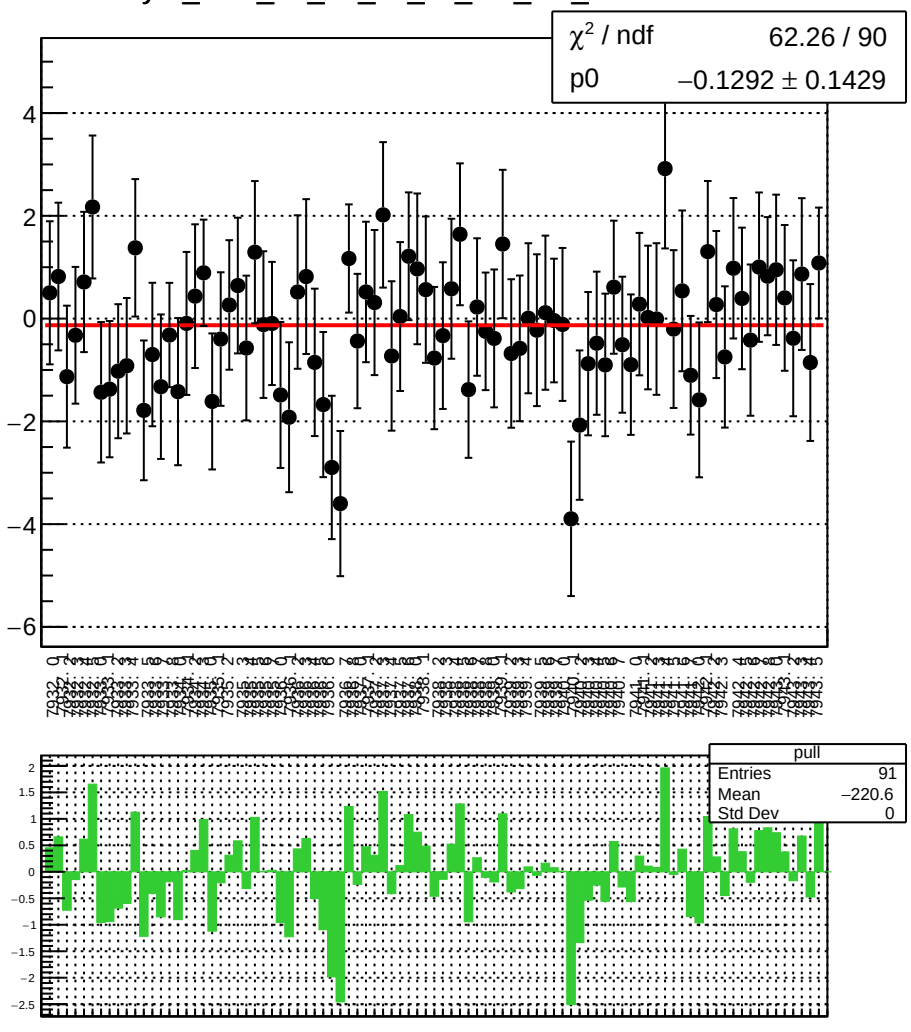

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 116.3 / 90
p0 1437 ± 4466
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −15.91
Std Dev 0
2
1
0
−1
−2
−3

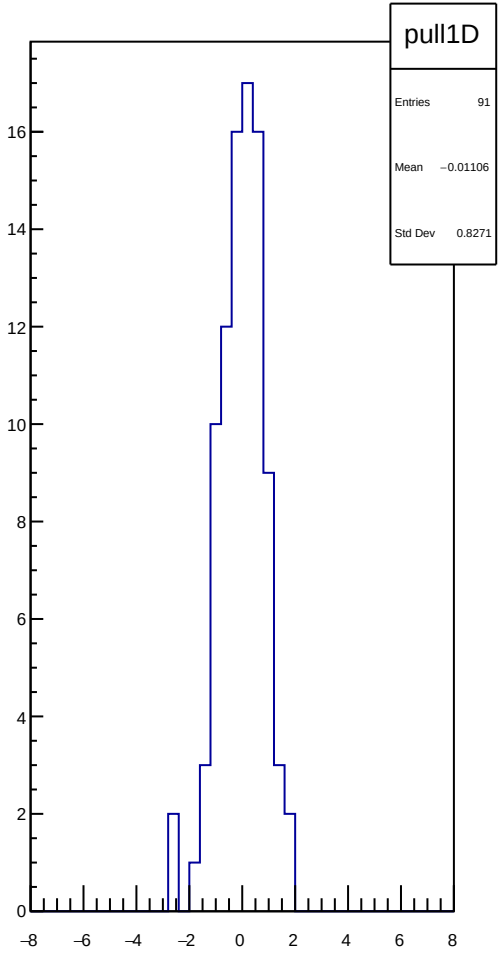

pull1D
Entries 91
Mean −0.01957
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

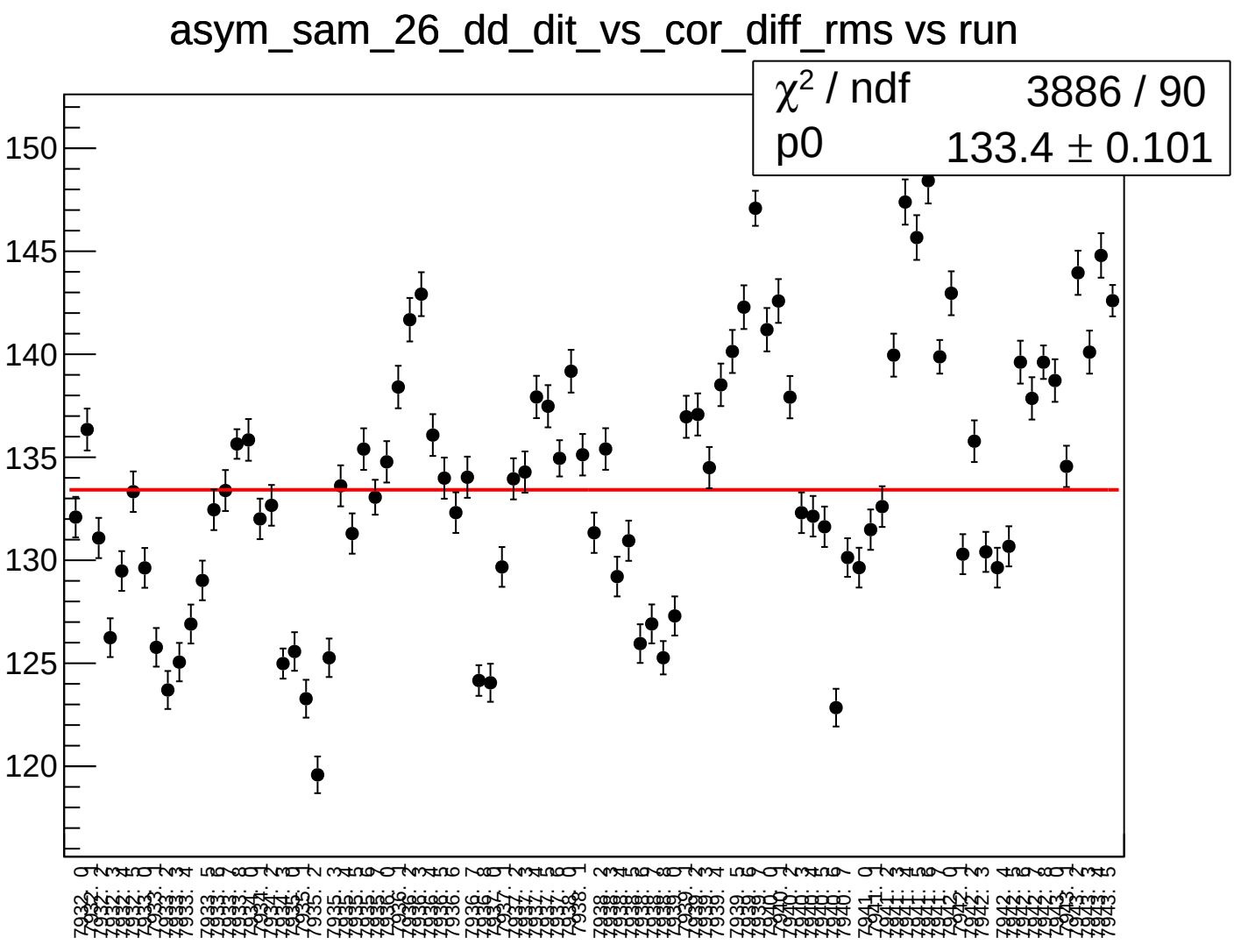

asym_sam_26_dd_rms vs run
χ² / ndf 5773 / 90
p0 4169 ± 3.158
4800
4600
4400
4200
4000
3800
3600

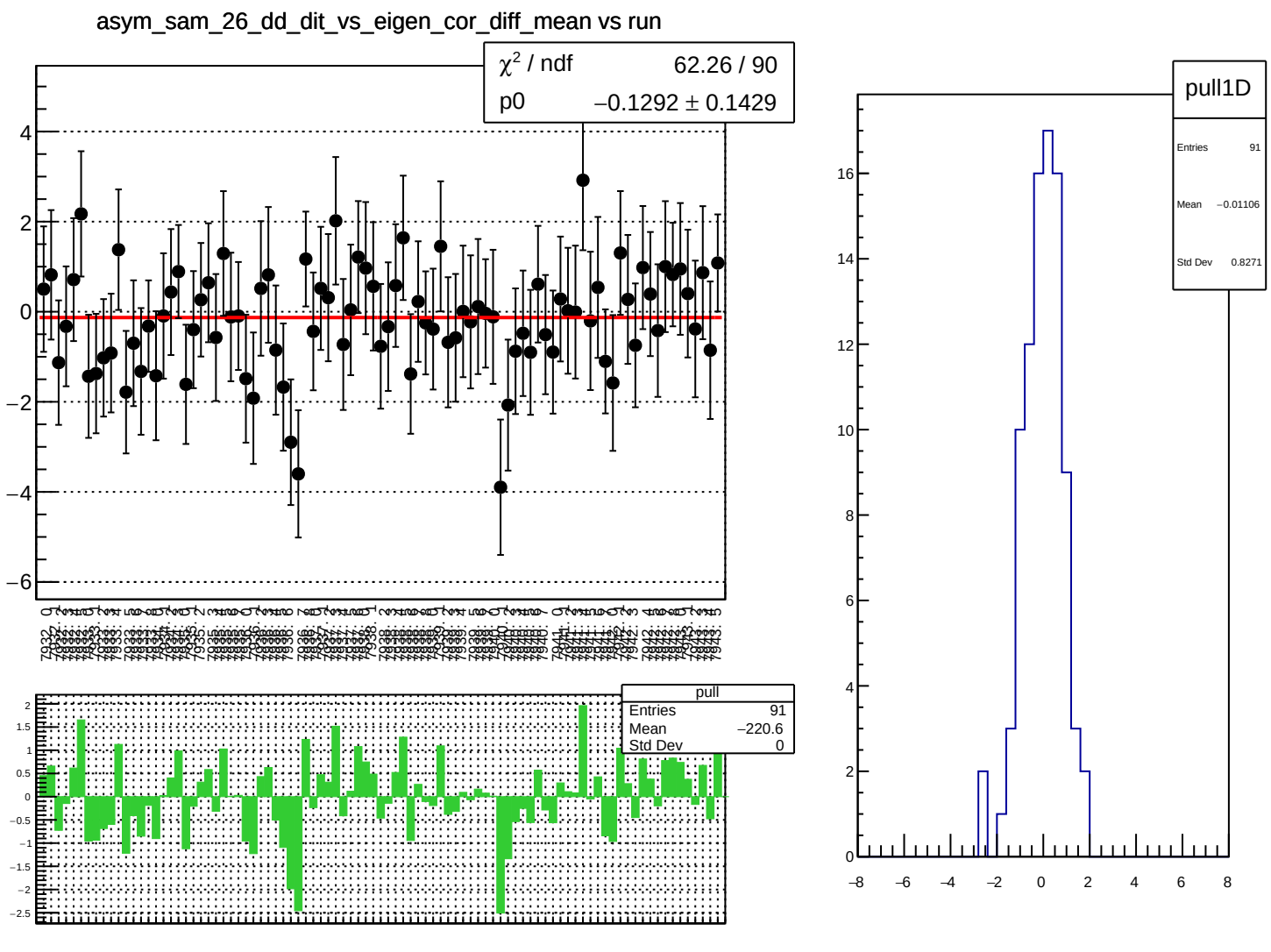

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 90
p0 −4.085e−13 ± 8.689e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 91
Mean 40.11
Std Dev 17.09
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.06272
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

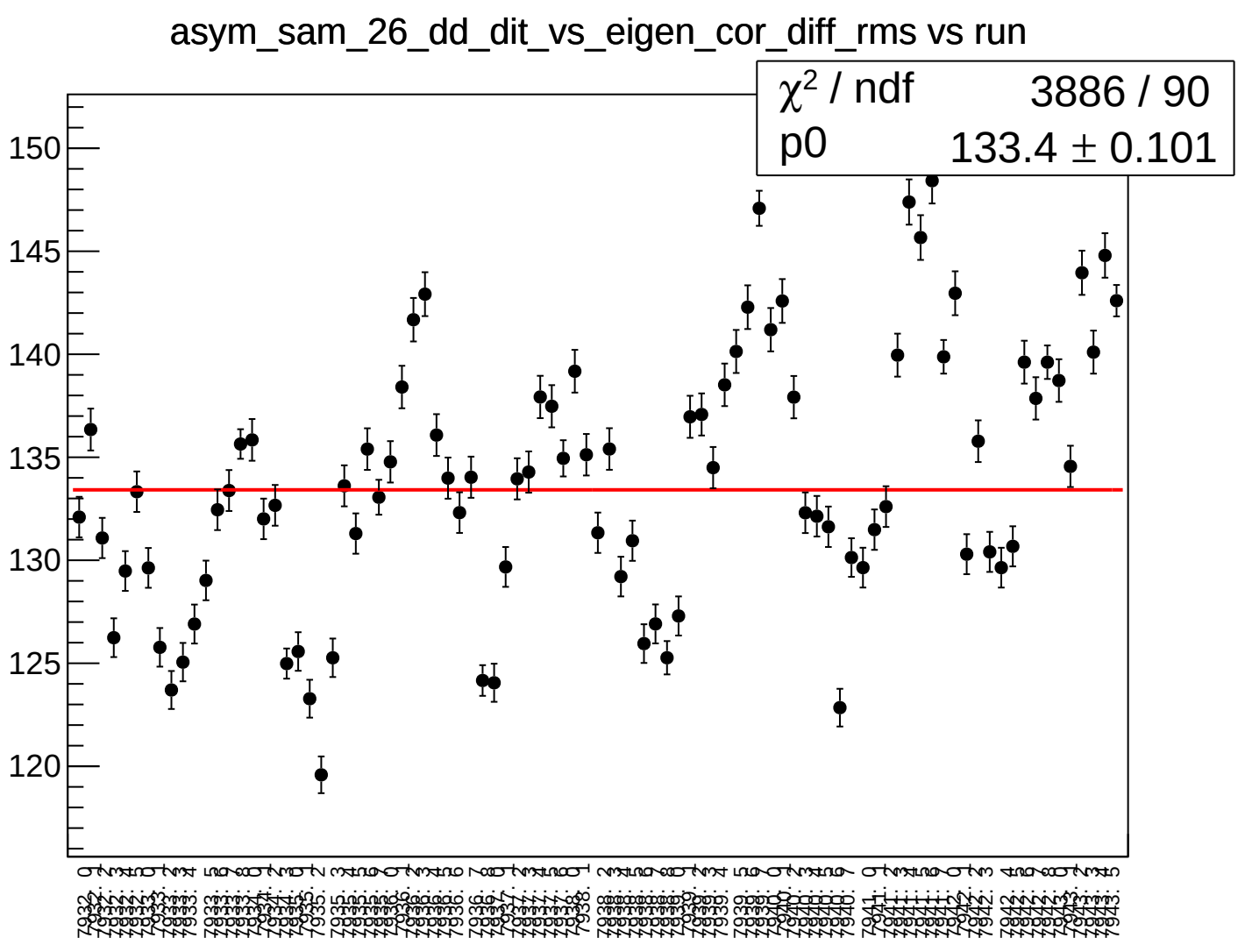

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.993e+05 / 90
p0 5.661e−10 ± 6.144e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

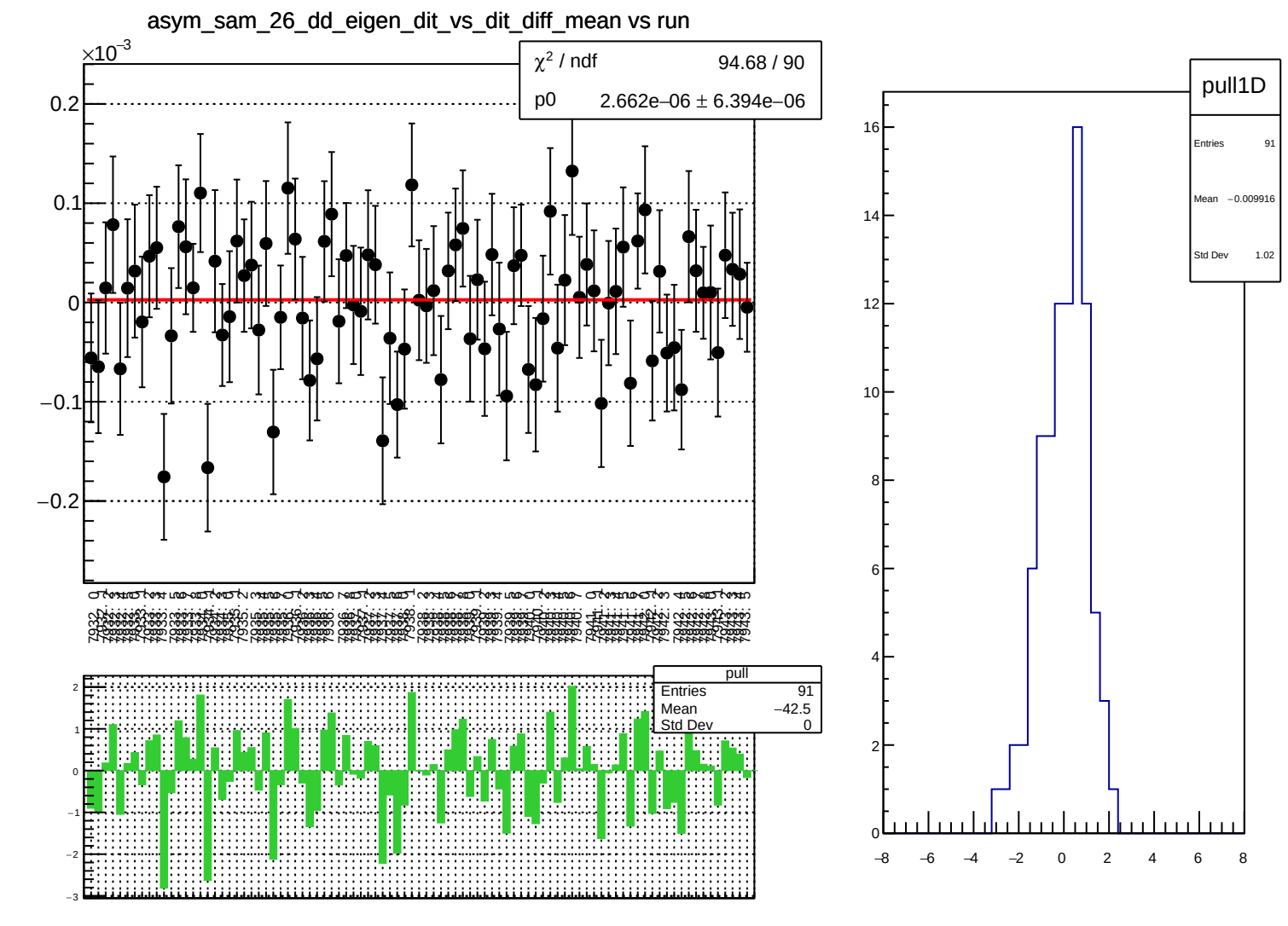

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 62.26 / 90
p0 −0.1292 ± 0.1429
pull
Entries 91
Mean −220.6
Std Dev 0

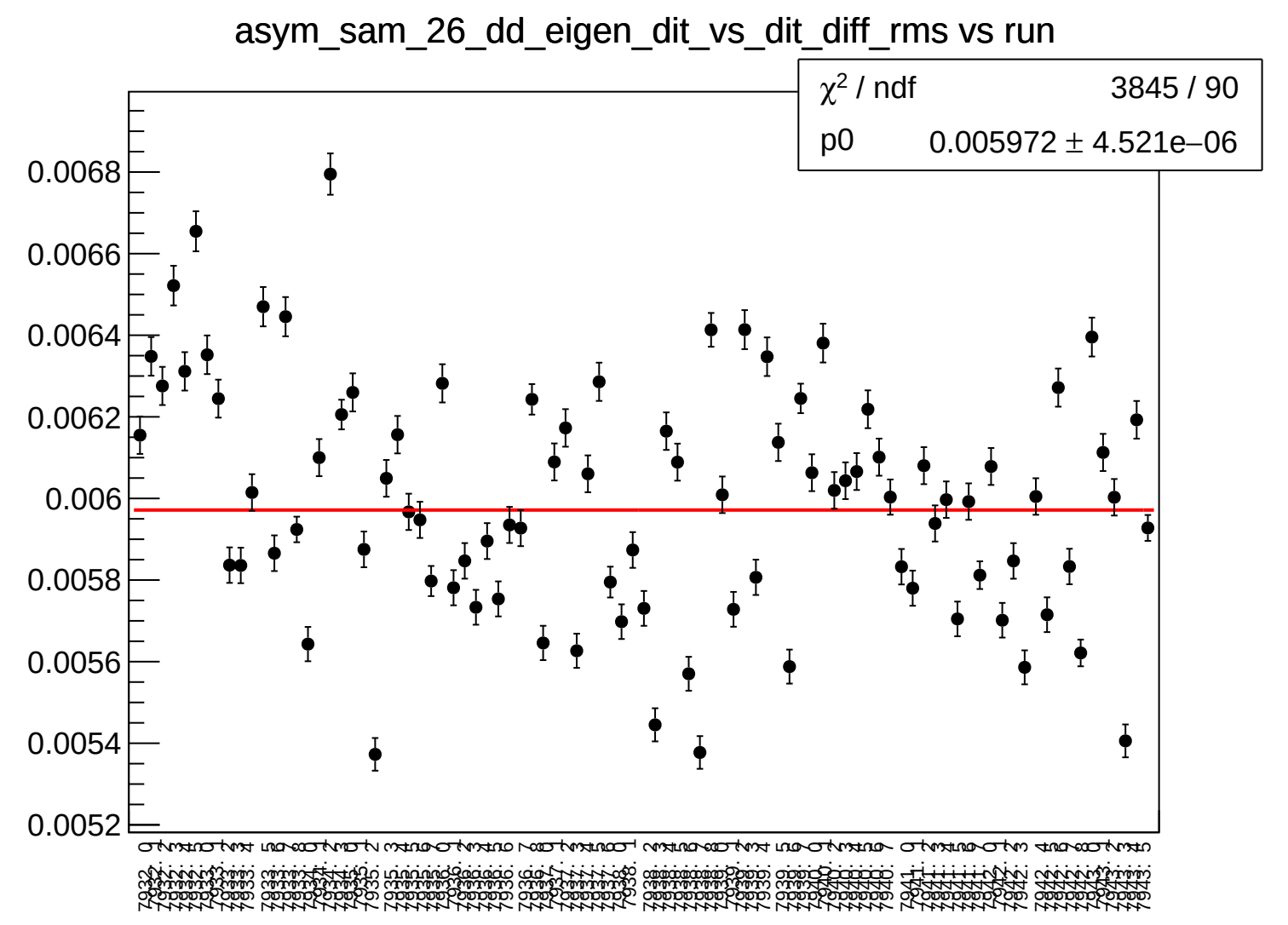

pull1D
Entries 91
Mean −0.01106
Std Dev 0.8271

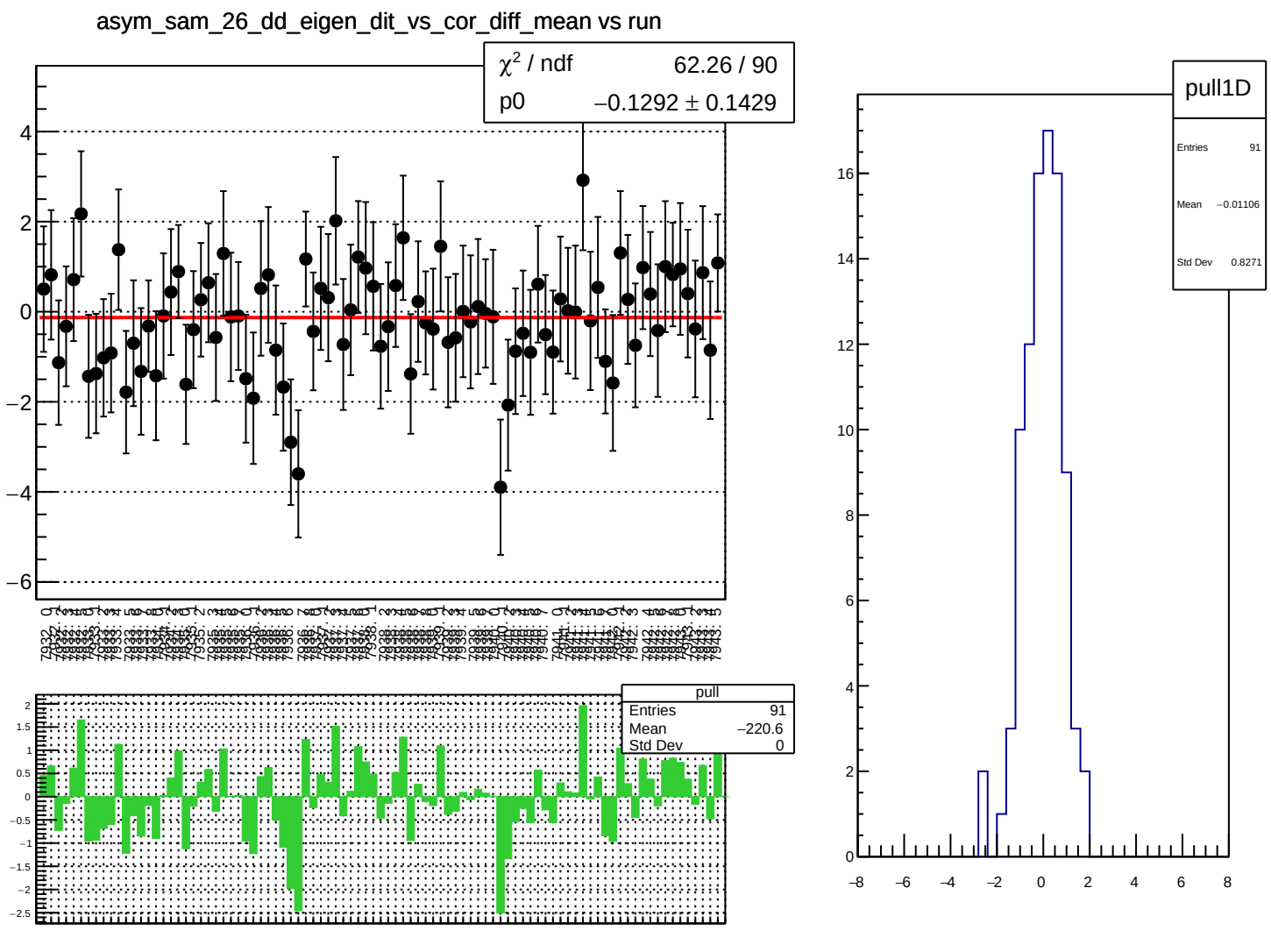

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3886 / 90
p0 133.4 ± 0.101
150
145
140
135
130
125
120

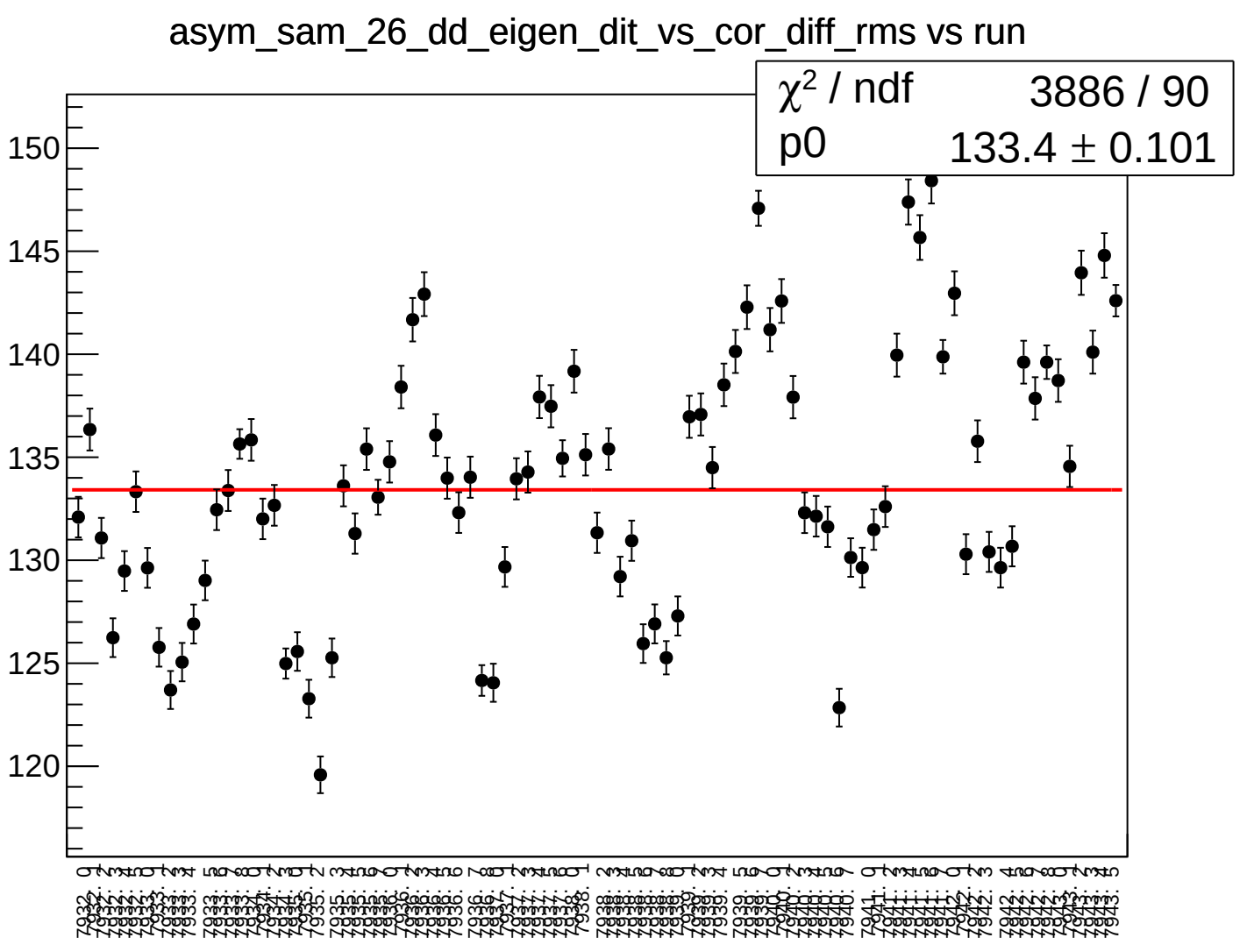

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.26 / 90
p0 −0.1292 ± 0.1429
pull
Entries 91
Mean −220.6
Std Dev 0
pull1D
Entries 91
Mean −0.01106
Std Dev 0.8271

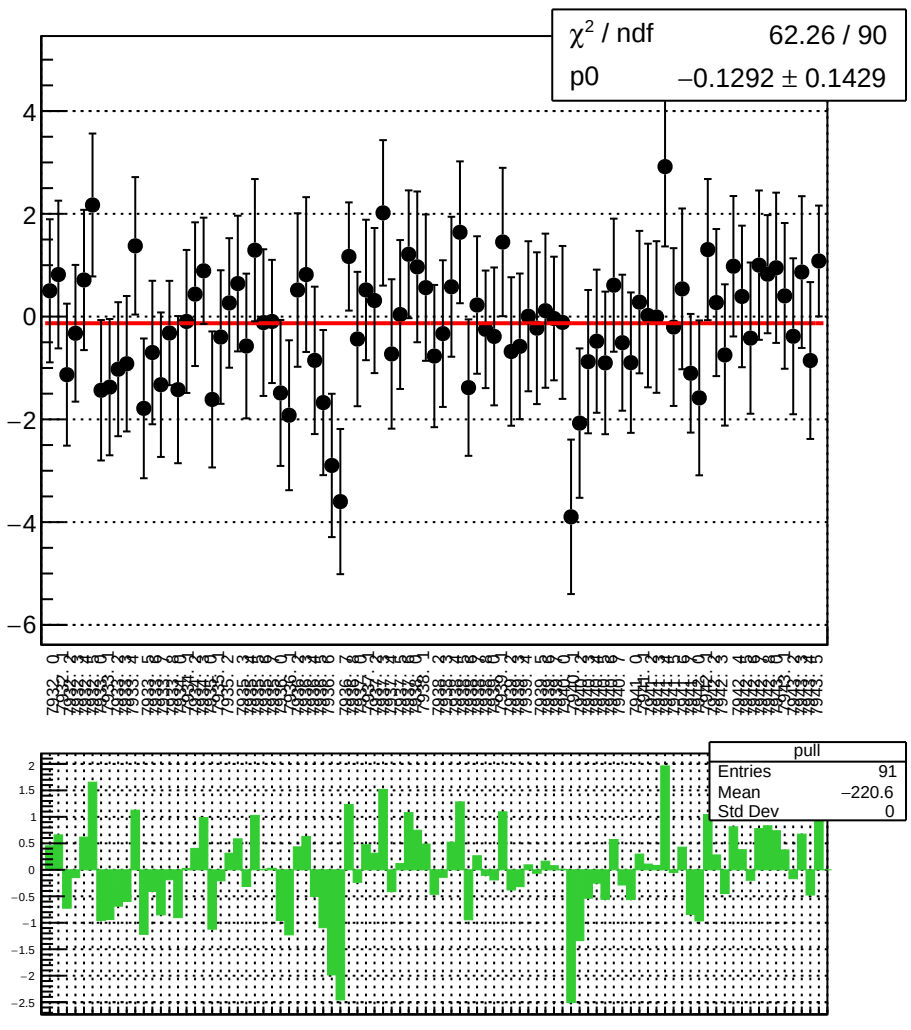

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3886 / 90
p0 133.4 ± 0.101
150
145
140
135
130
125
120

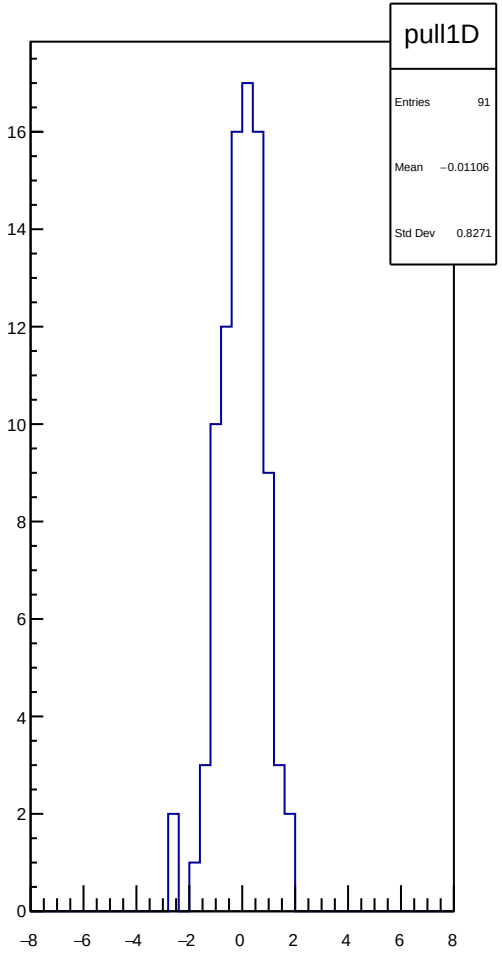

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.68 / 90
p0 2.662e−06 ± 6.394e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean −42.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.009916
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

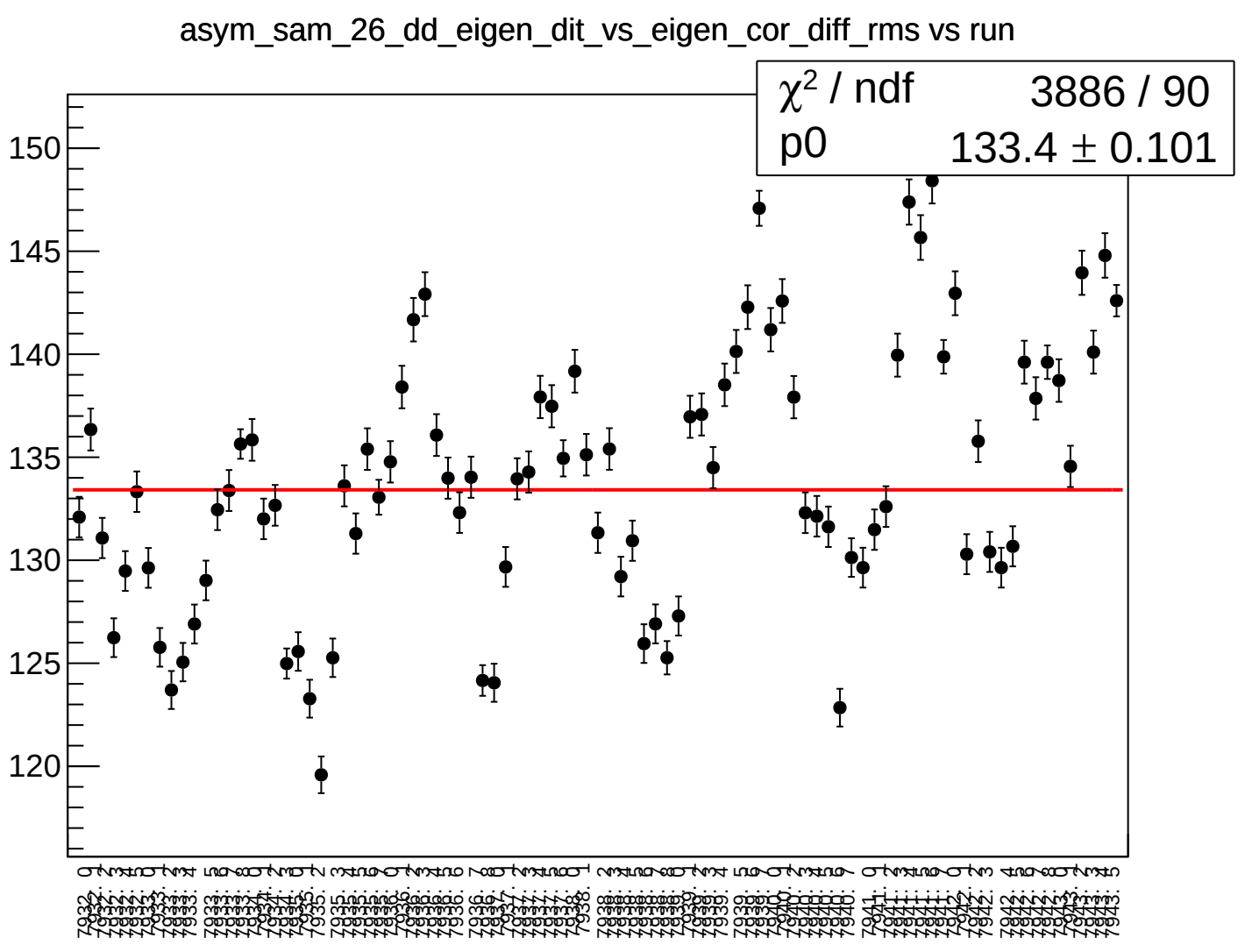

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3845 / 90
p0 0.005972 ± 4.521e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

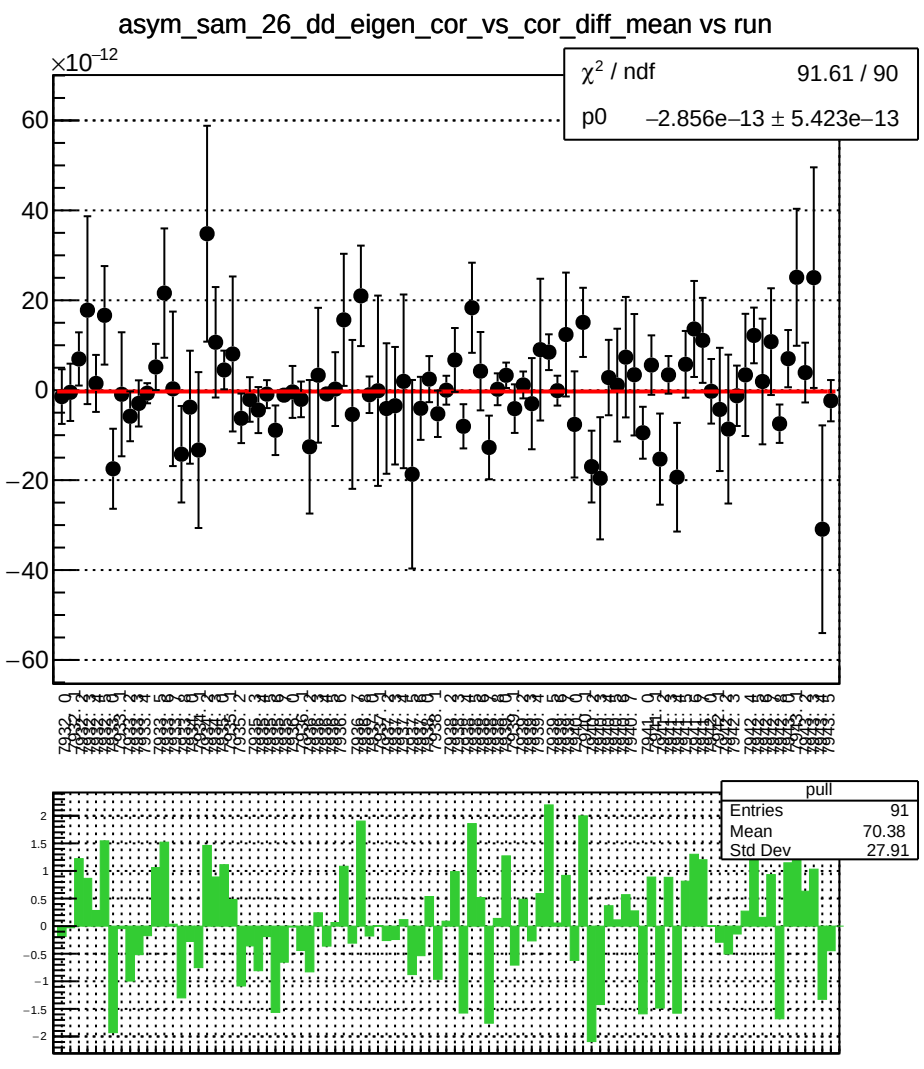

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.26 / 90
p0 −0.1292 ± 0.1429
pull
Entries 91
Mean −220.6
Std Dev 0
pull1D
Entries 91
Mean −0.01106
Std Dev 0.8271

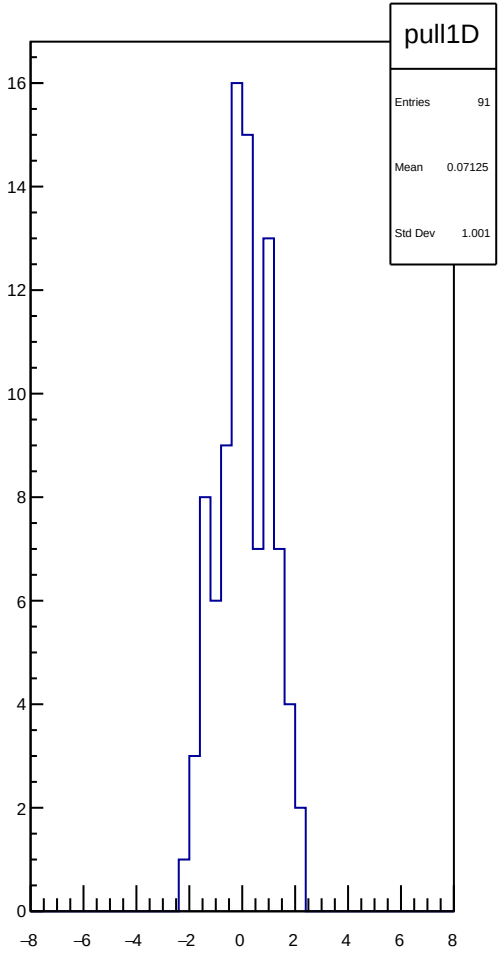

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3886 / 90
p0 133.4 ± 0.101
150
145
140
135
130
125
120

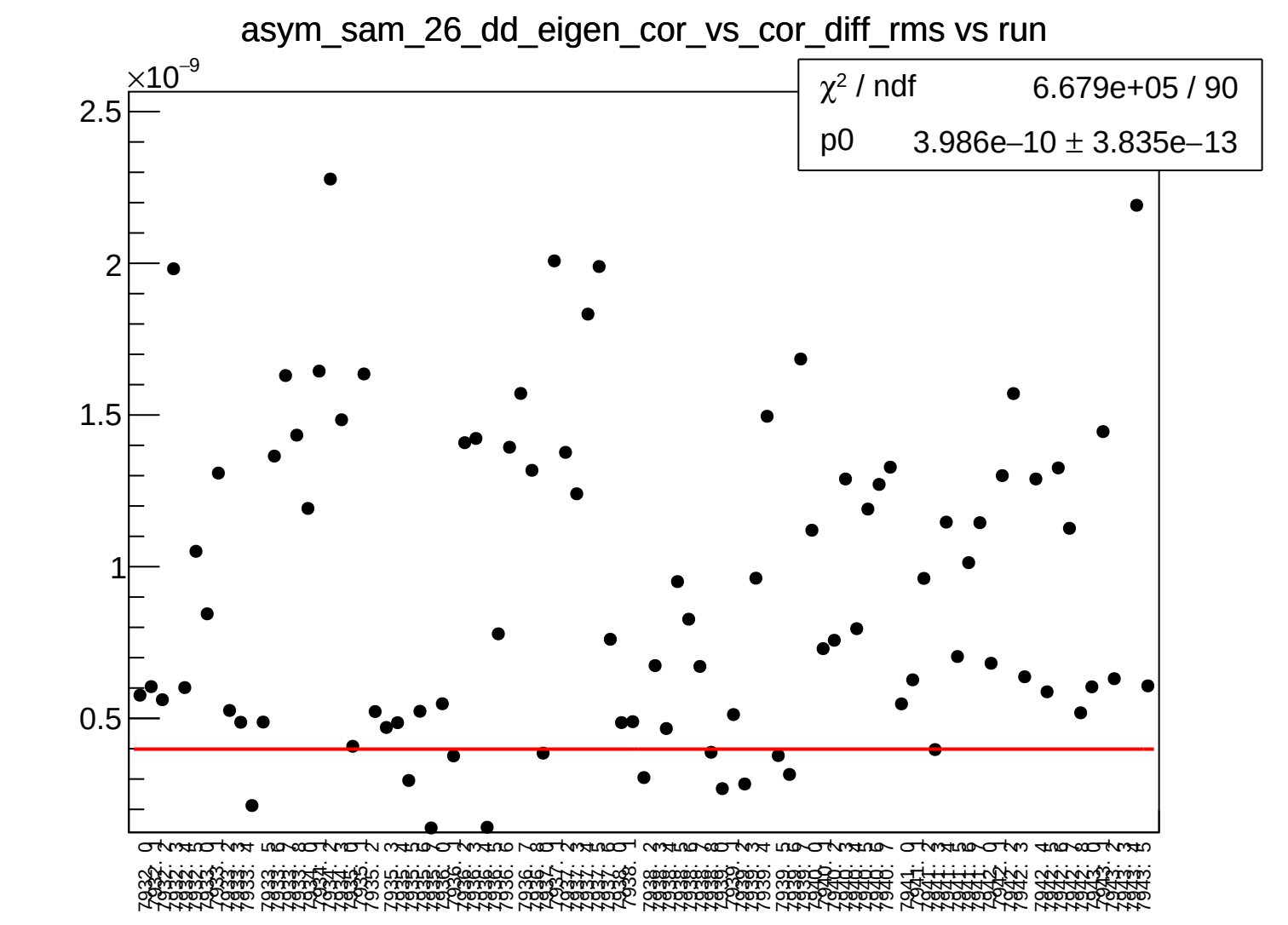

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.26 / 90
p0 −0.1292 ± 0.1429
pull
Entries 91
Mean −220.6
Std Dev 0

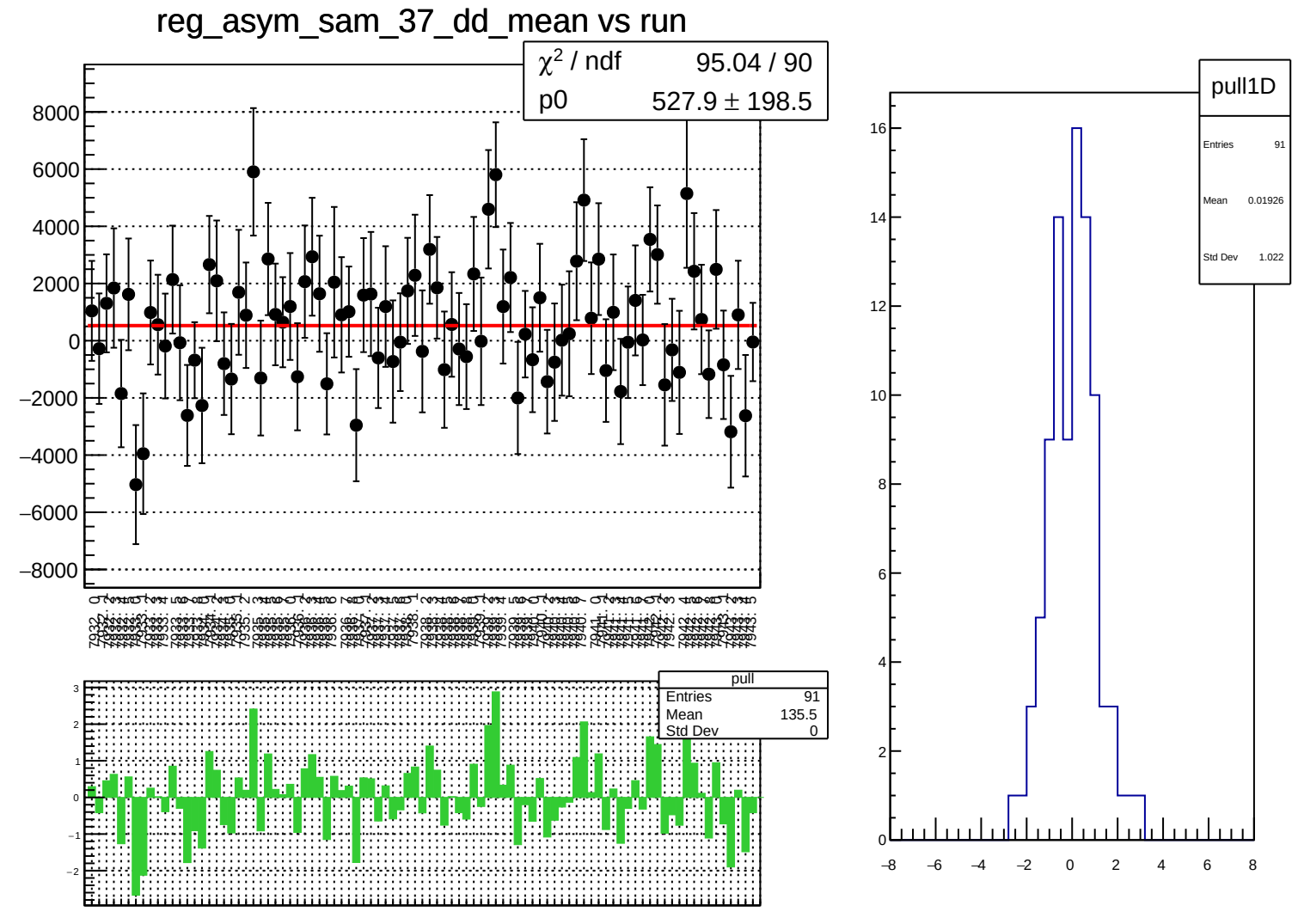

pull1D
Entries 91
Mean −0.01106
Std Dev 0.8271

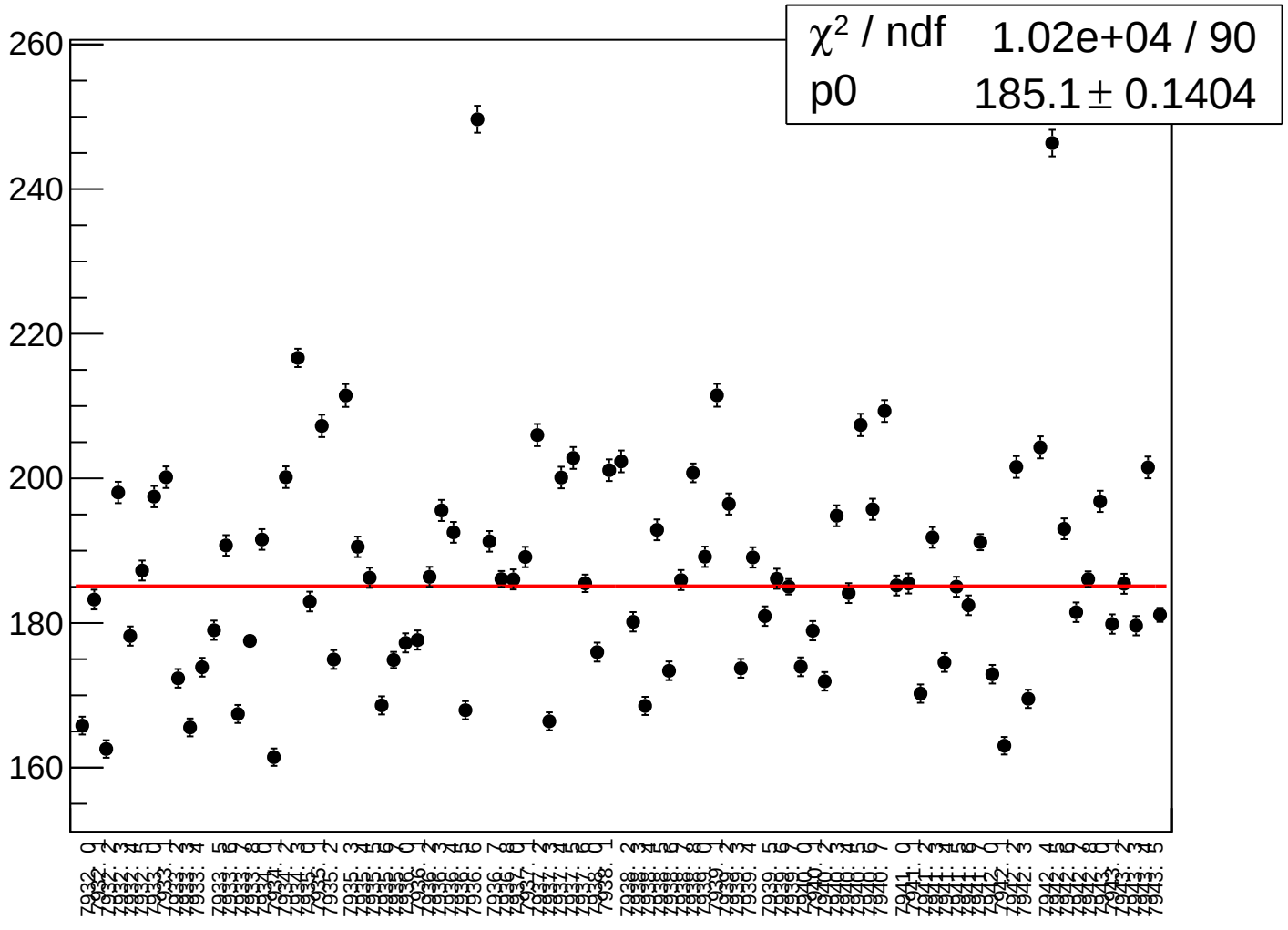

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3886 / 90
p0 133.4 ± 0.101
150
145
140
135
130
125
120

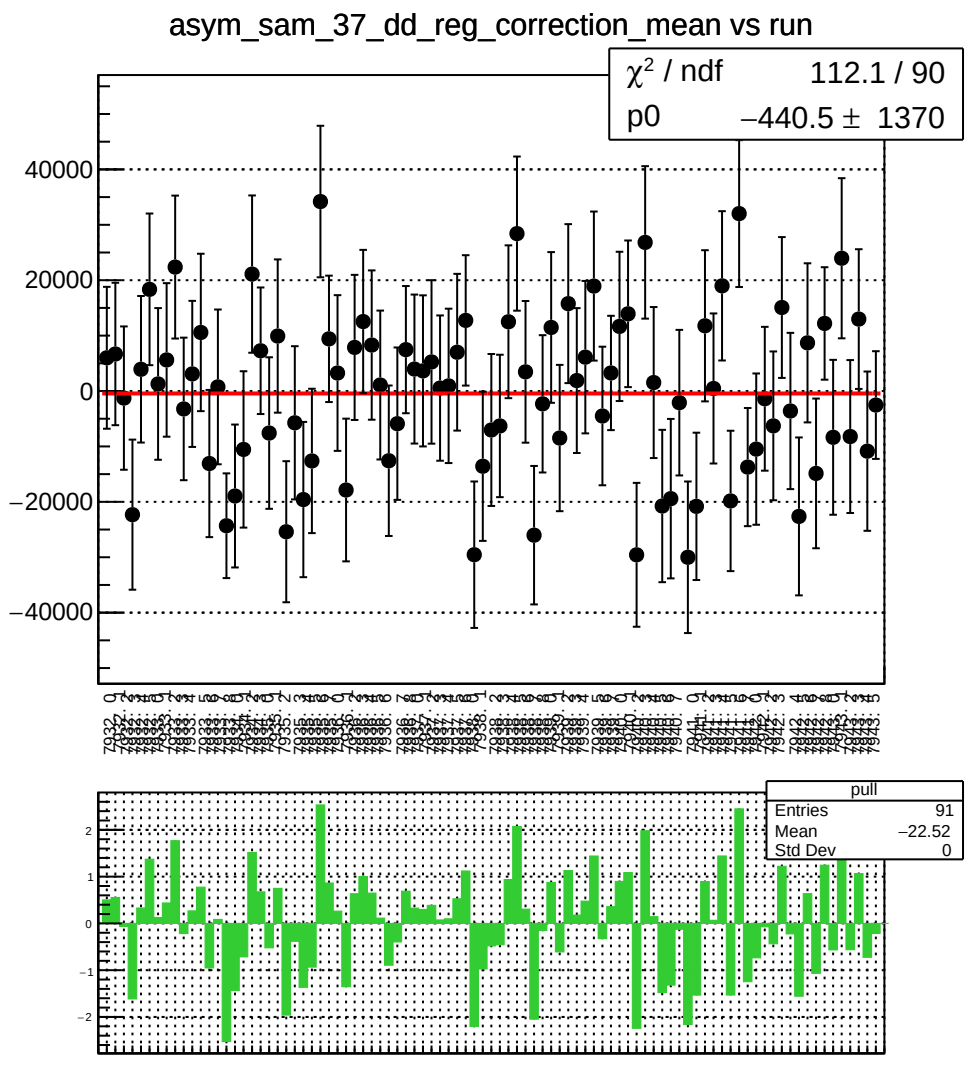

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.61 / 90
p0 −2.856e−13 ± 5.423e−13
pull
Entries 91
Mean 70.38
Std Dev 27.91

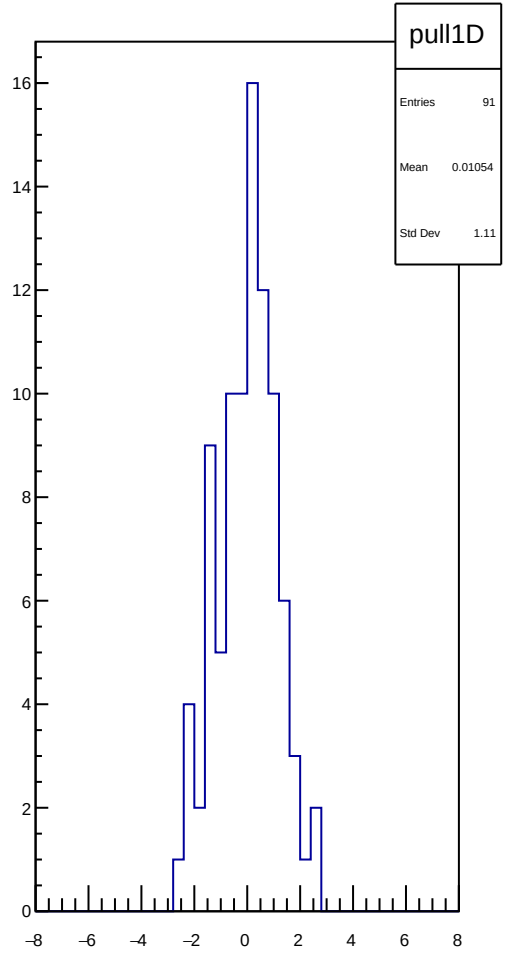

pull1D
Entries 91
Mean 0.07125
Std Dev 1.001

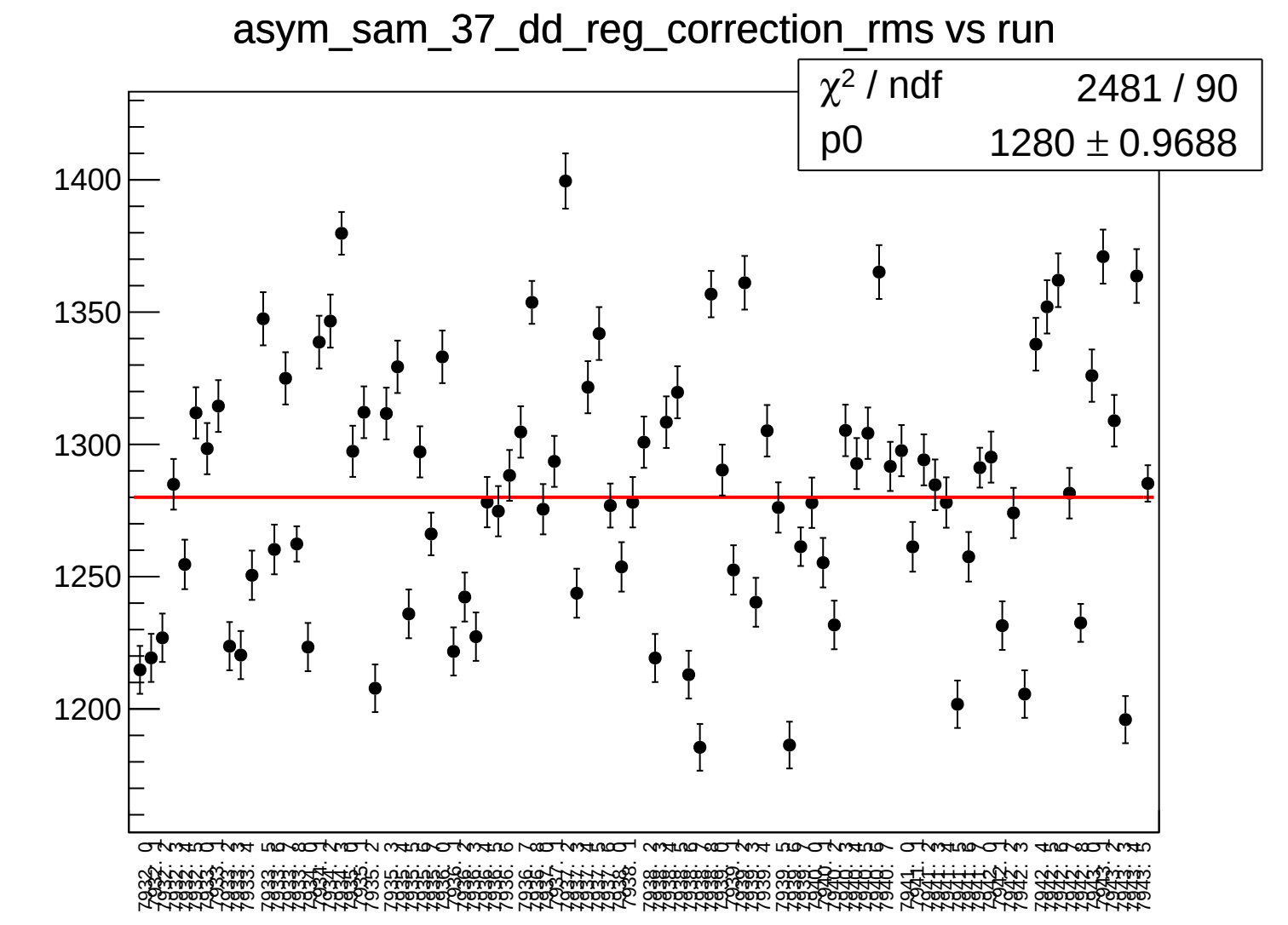

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.679e+05 / 90
p0 3.986e−10 ± 3.835e−13
2.5
2
1.5
1
0.5

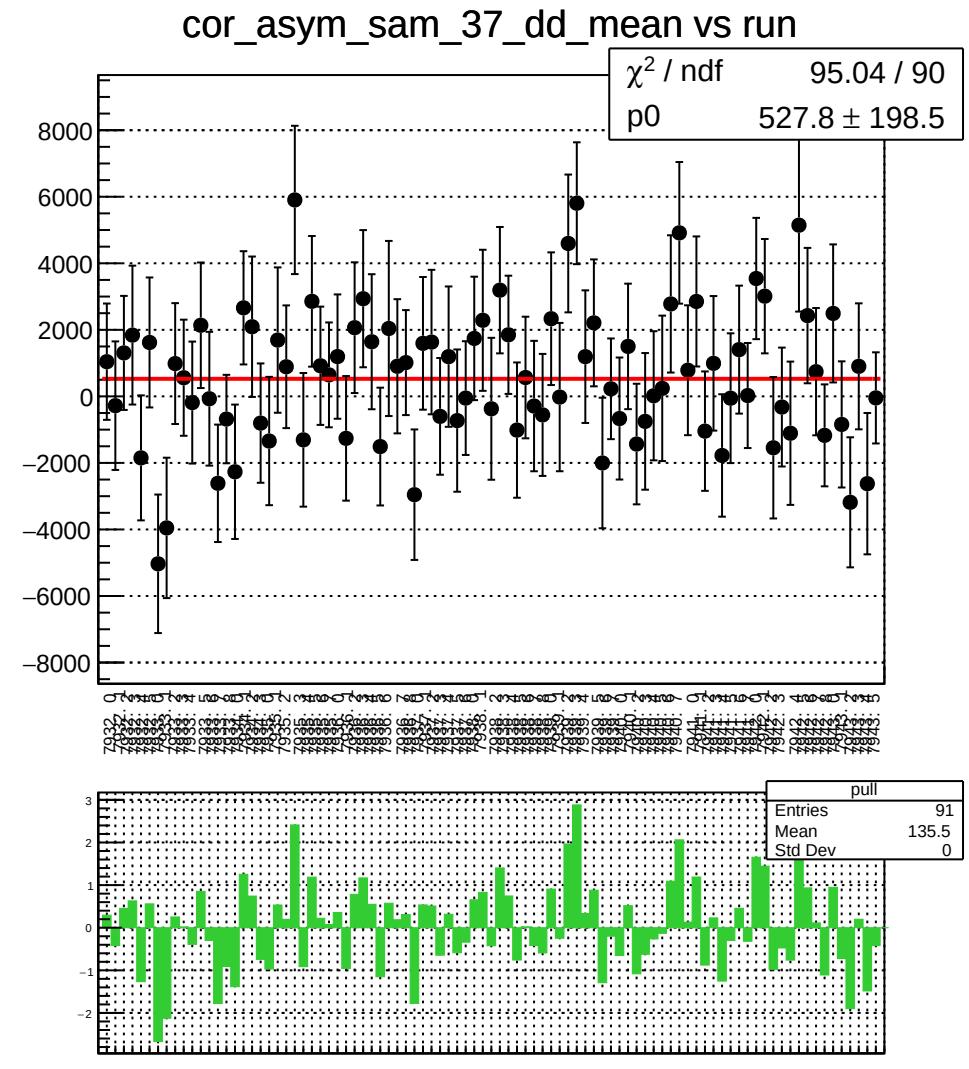

reg_asym_sam_37_dd_mean vs run
χ² / ndf 95.04 / 90
p0 527.9 ± 198.5
pull
Entries 91
Mean 135.5
Std Dev 0
pull1D
Entries 91
Mean 0.01926
Std Dev 1.022

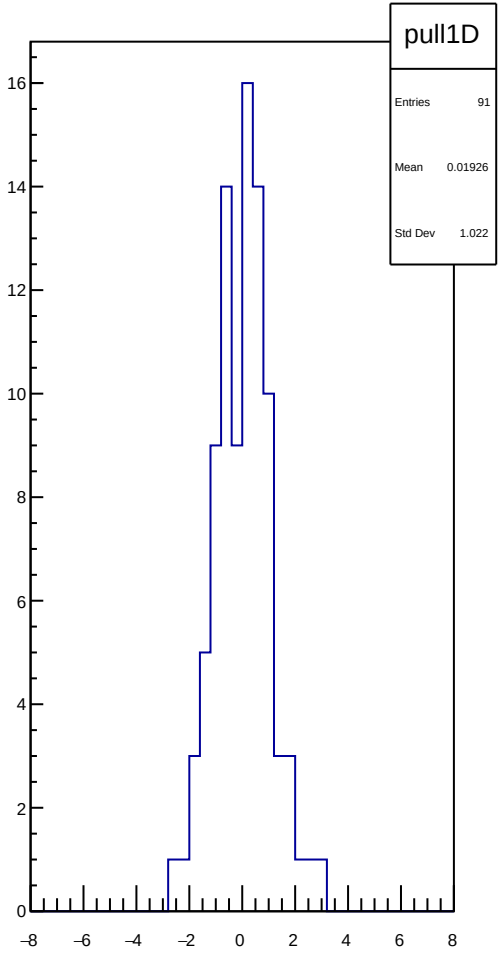

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.02e+04 / 90
p0 185.1 ± 0.1404
260
240
220
200
180
160

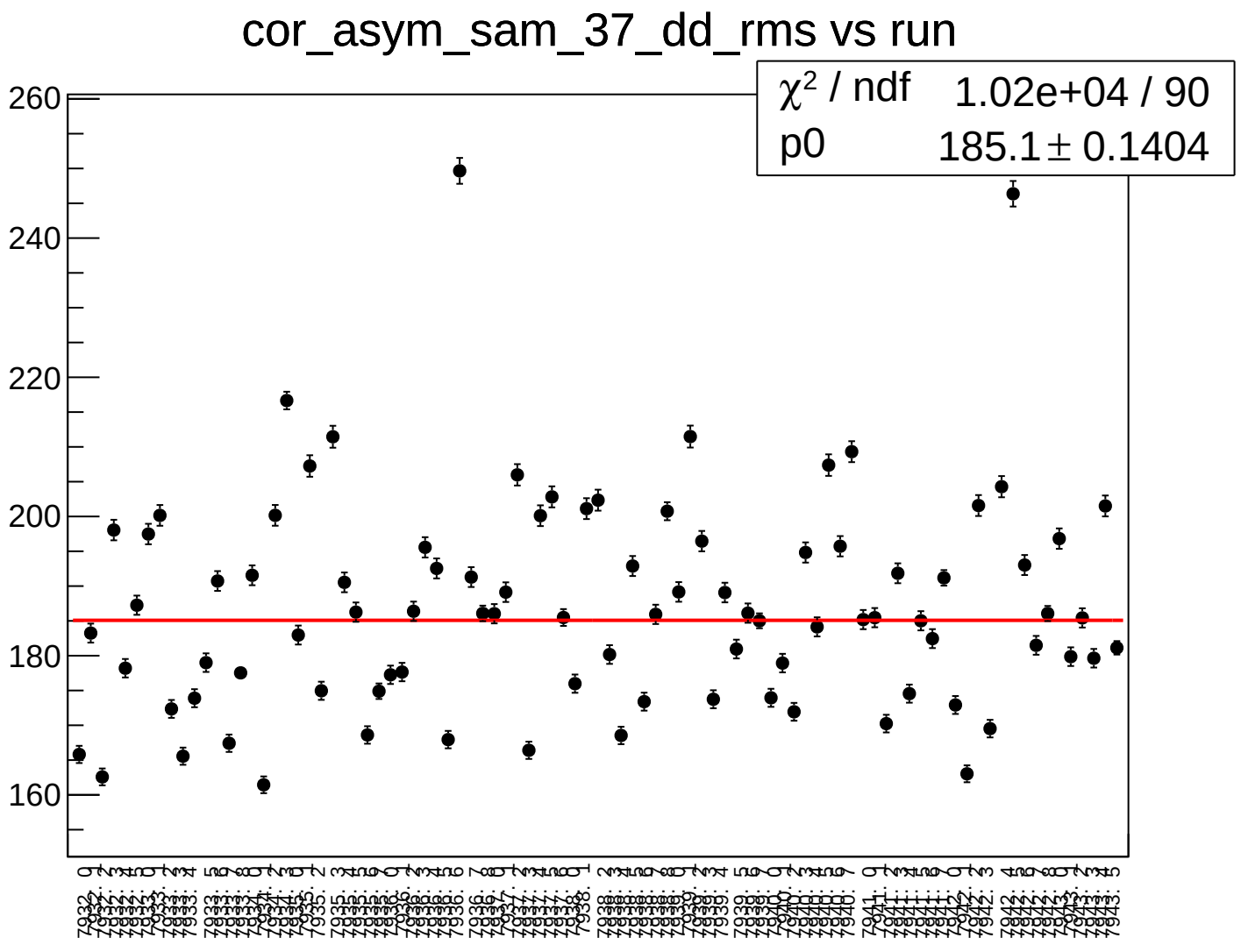

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −440.5 ± 1370
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −22.52
Std Dev 0
2
1
0
−1
−2

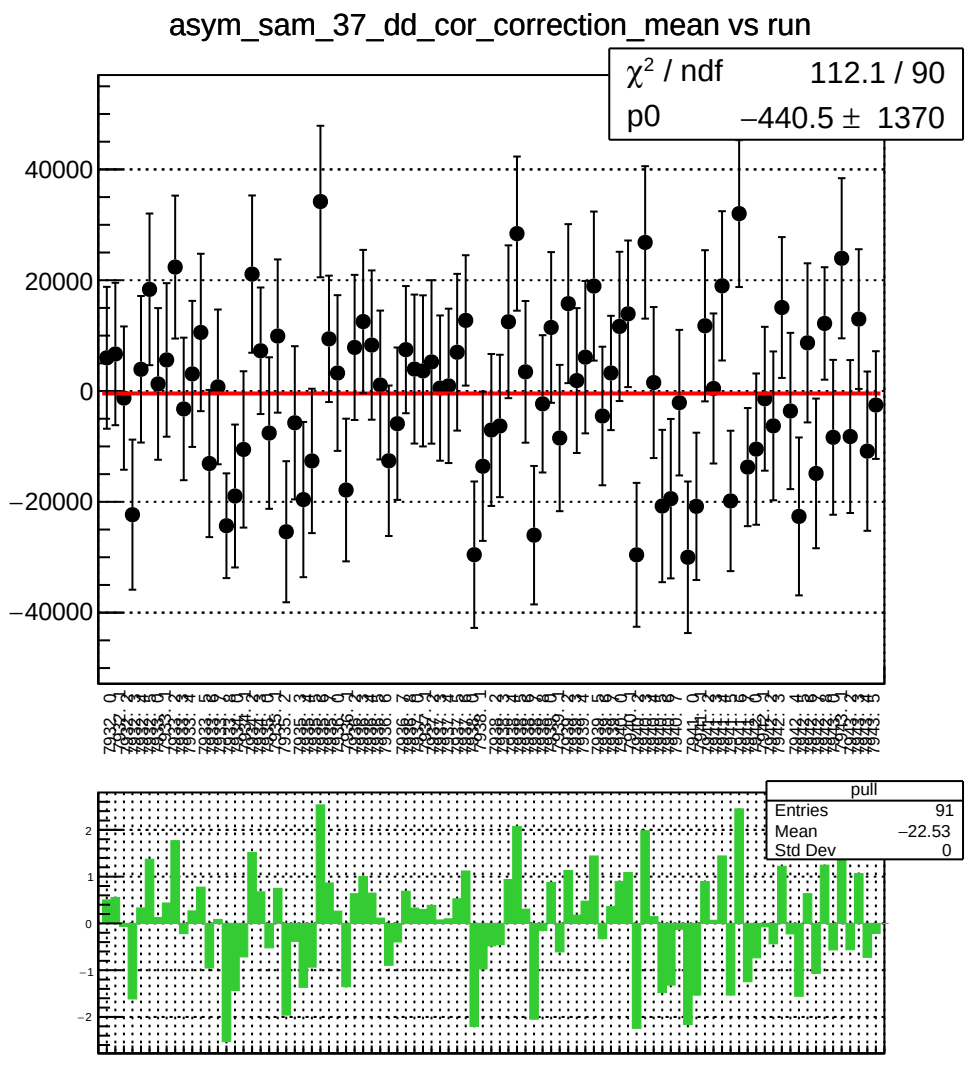

pull1D
Entries 91
Mean 0.01054
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

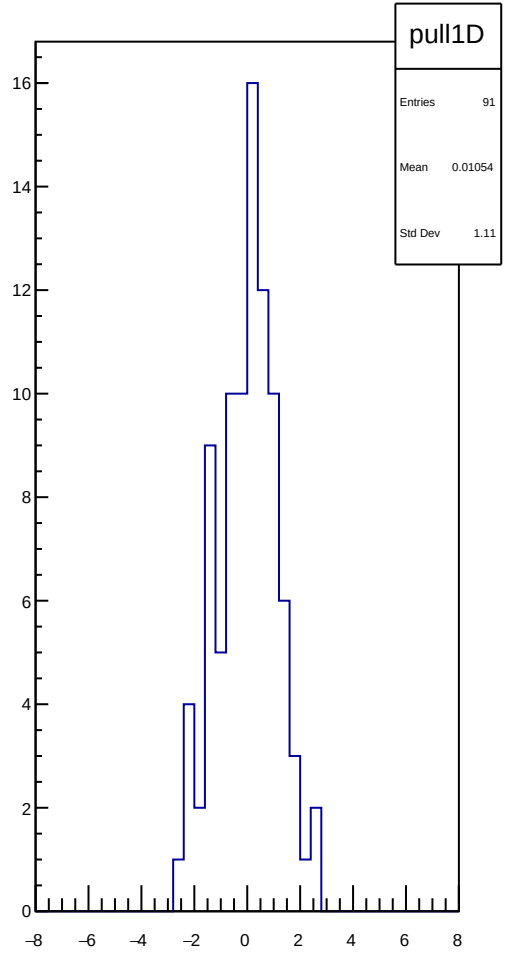

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2481 / 90
p0 1280 ± 0.9688
1400
1350
1300
1250
1200

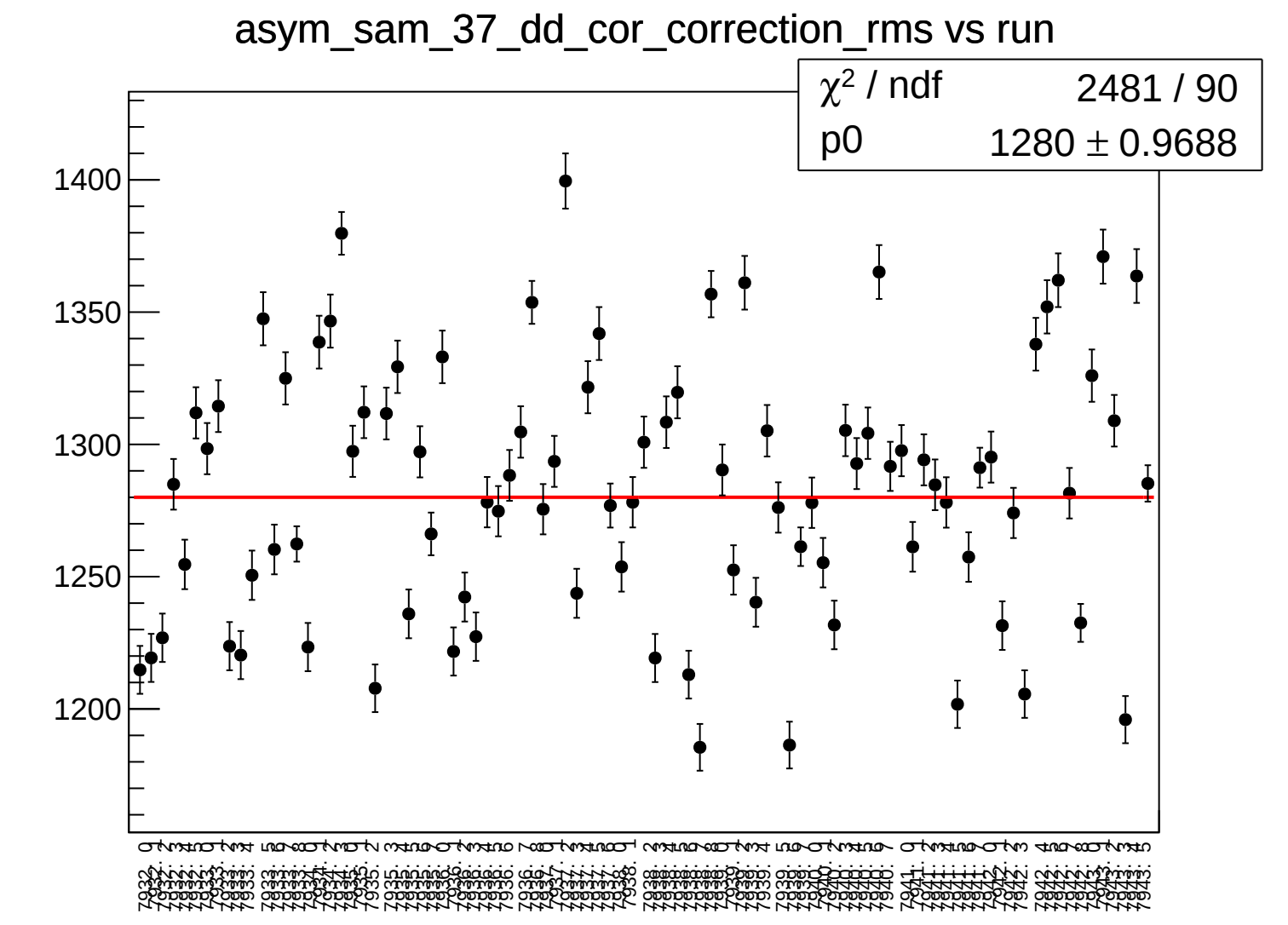

cor_asym_sam_37_dd_mean vs run
χ² / ndf 95.04 / 90
p0 527.8 ± 198.5
pull
Entries 91
Mean 135.5
Std Dev 0

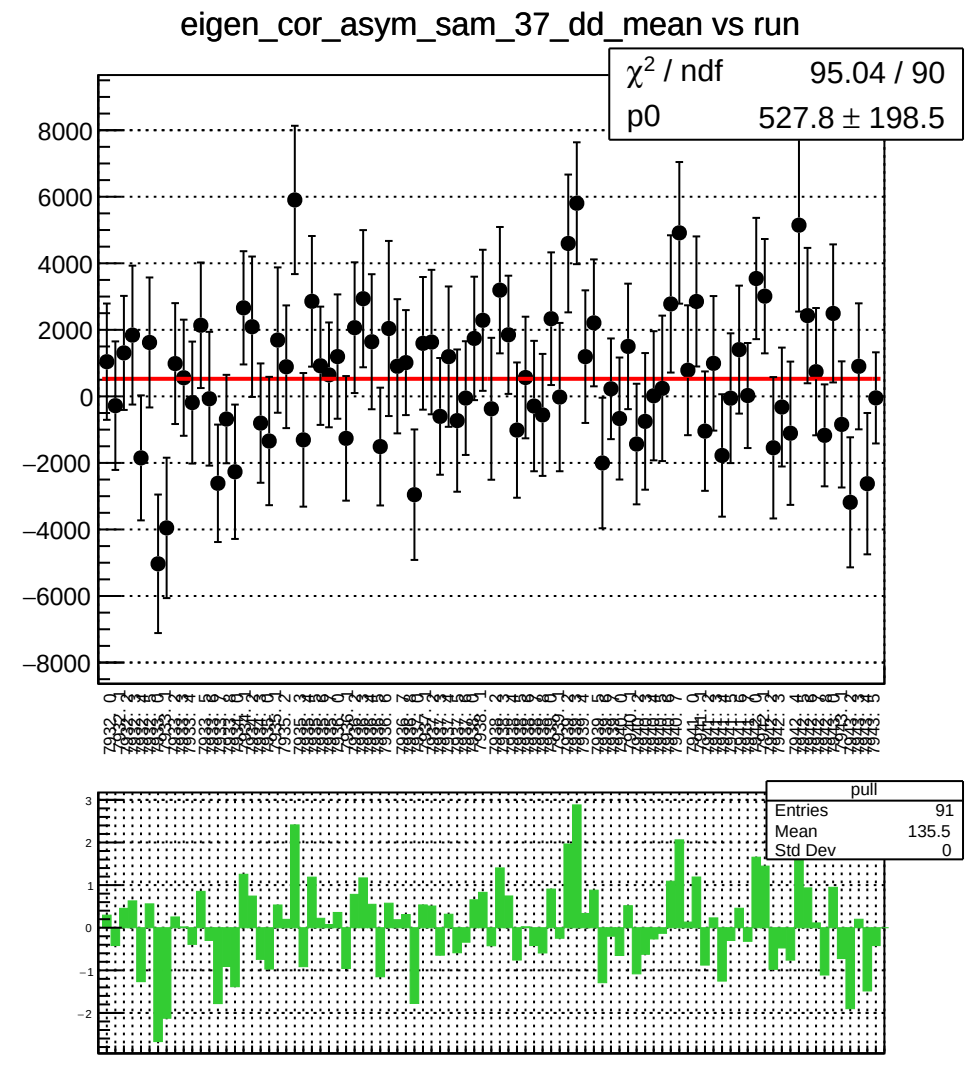

pull1D
Entries 91
Mean 0.01926
Std Dev 1.022

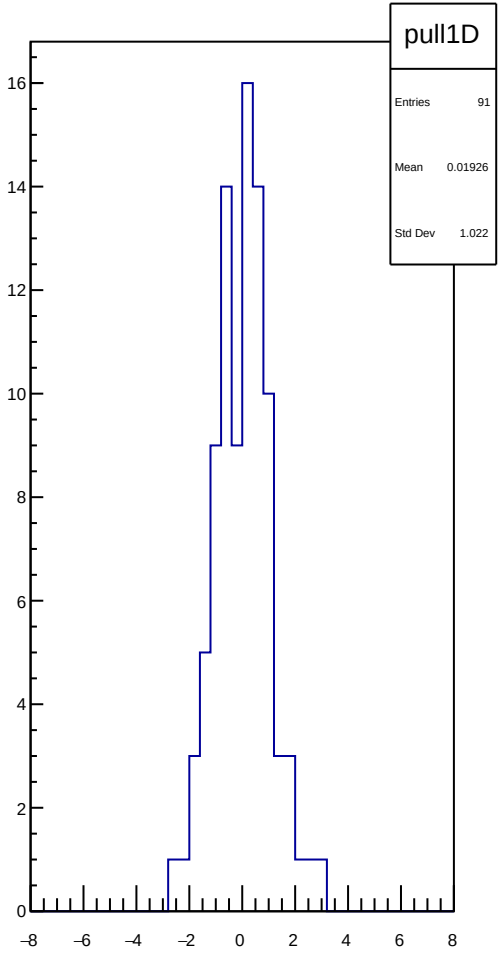

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.02e+04 / 90
p0 185.1 ± 0.1404
260
240
220
200
180
160

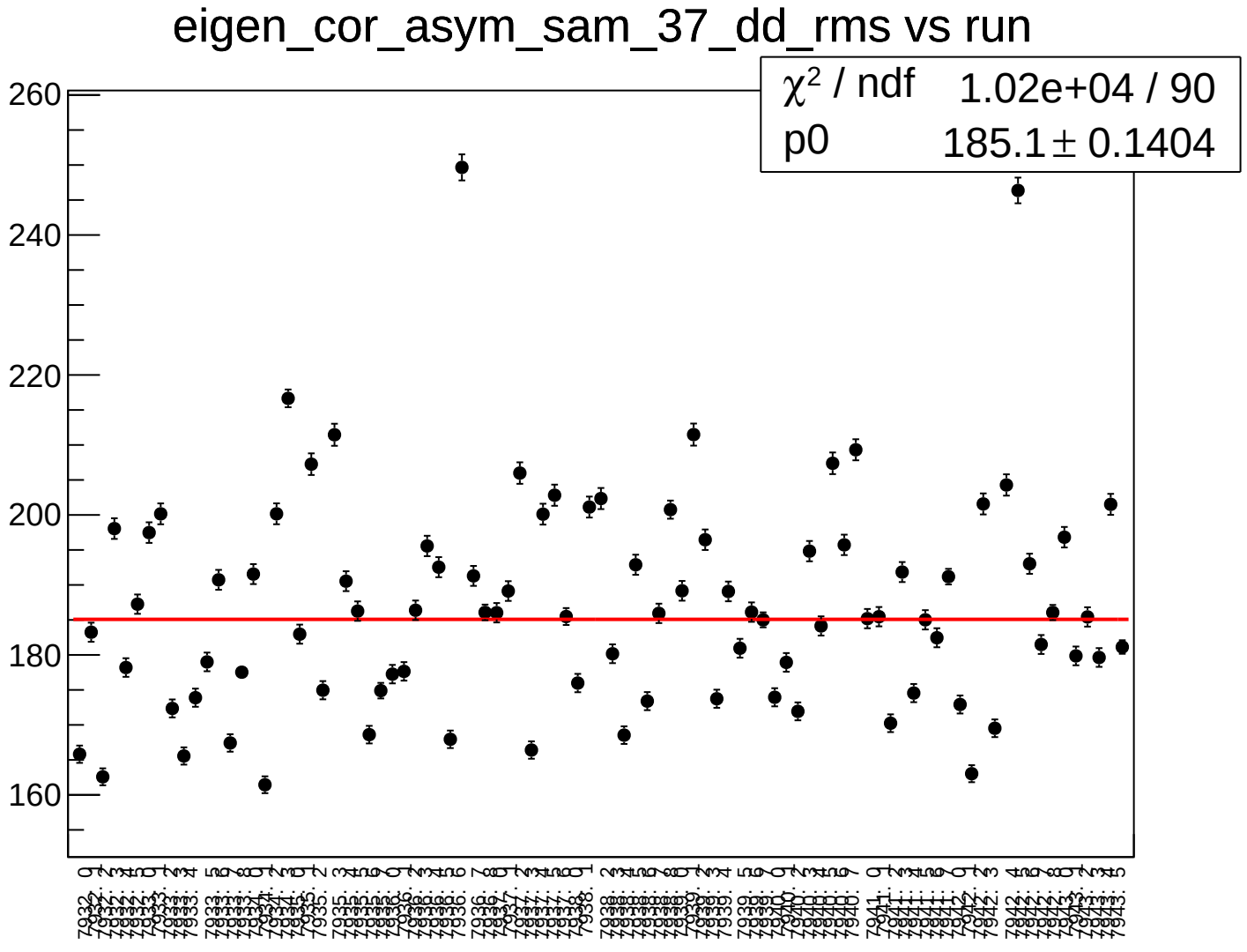

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −440.5 ± 1370
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −22.53
Std Dev 0
2
1
0
−1
−2

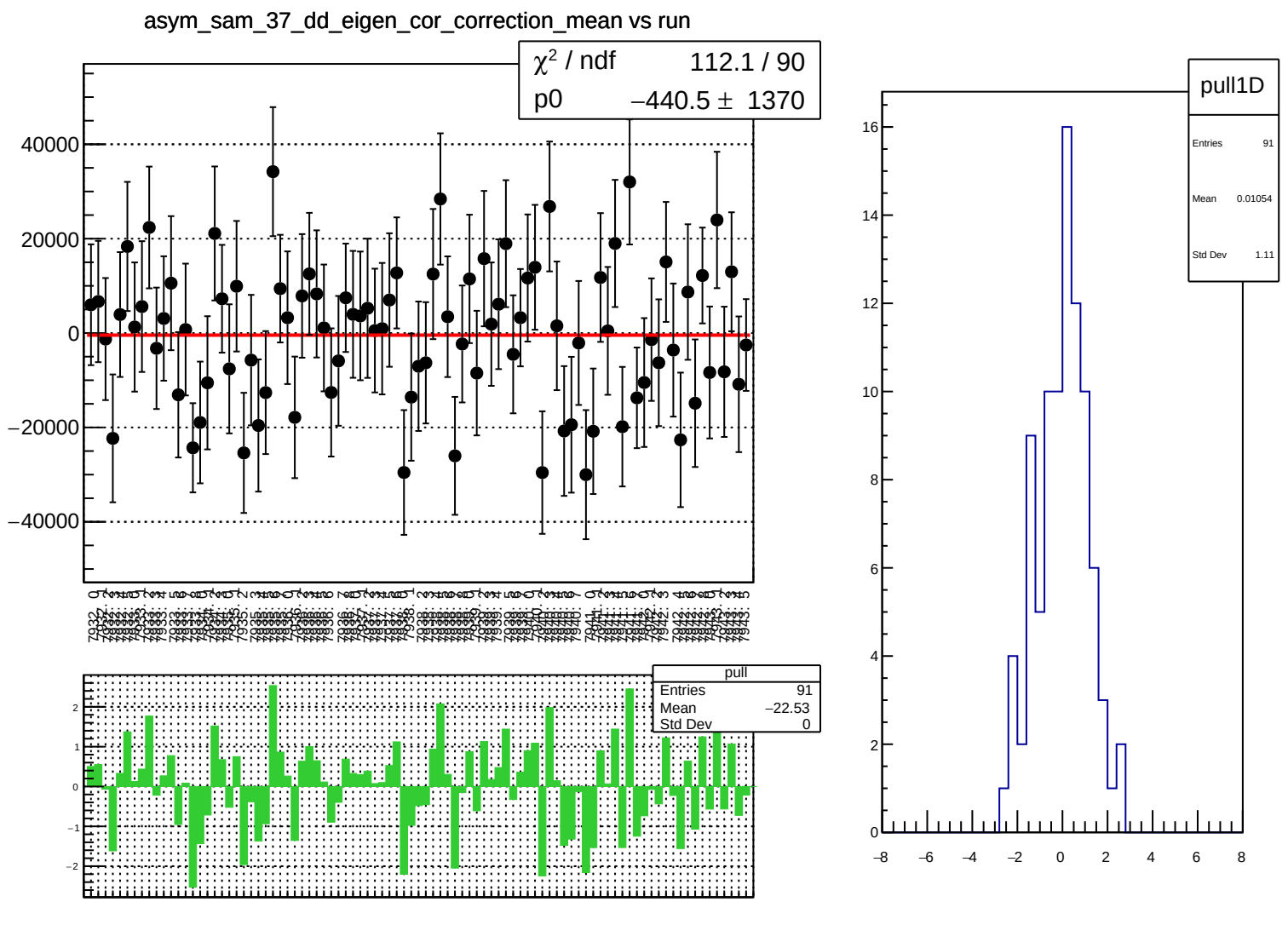

pull1D
Entries 91
Mean 0.01054
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

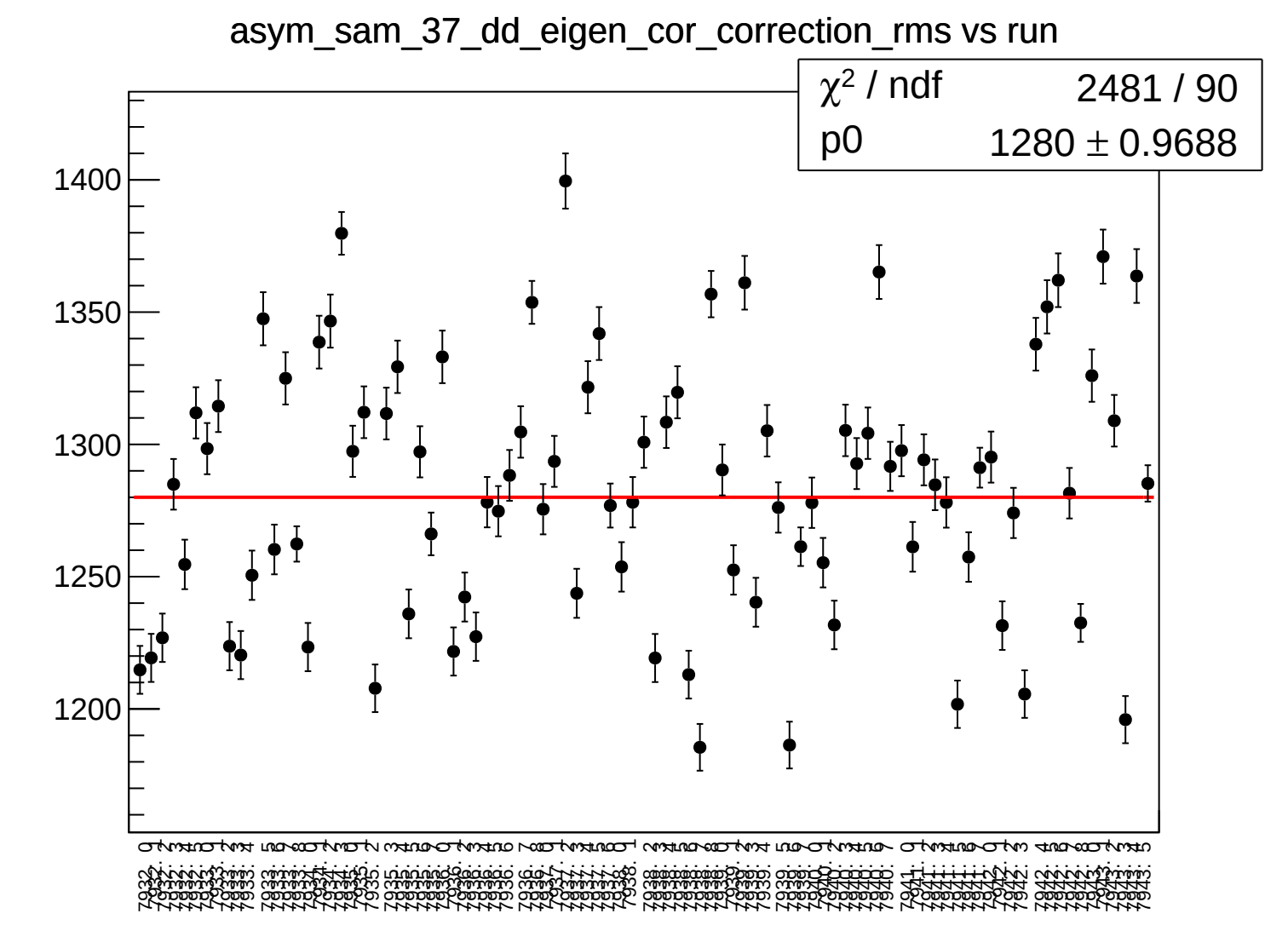

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2481 / 90
p0 1280 ± 0.9688
1400
1350
1300
1250
1200

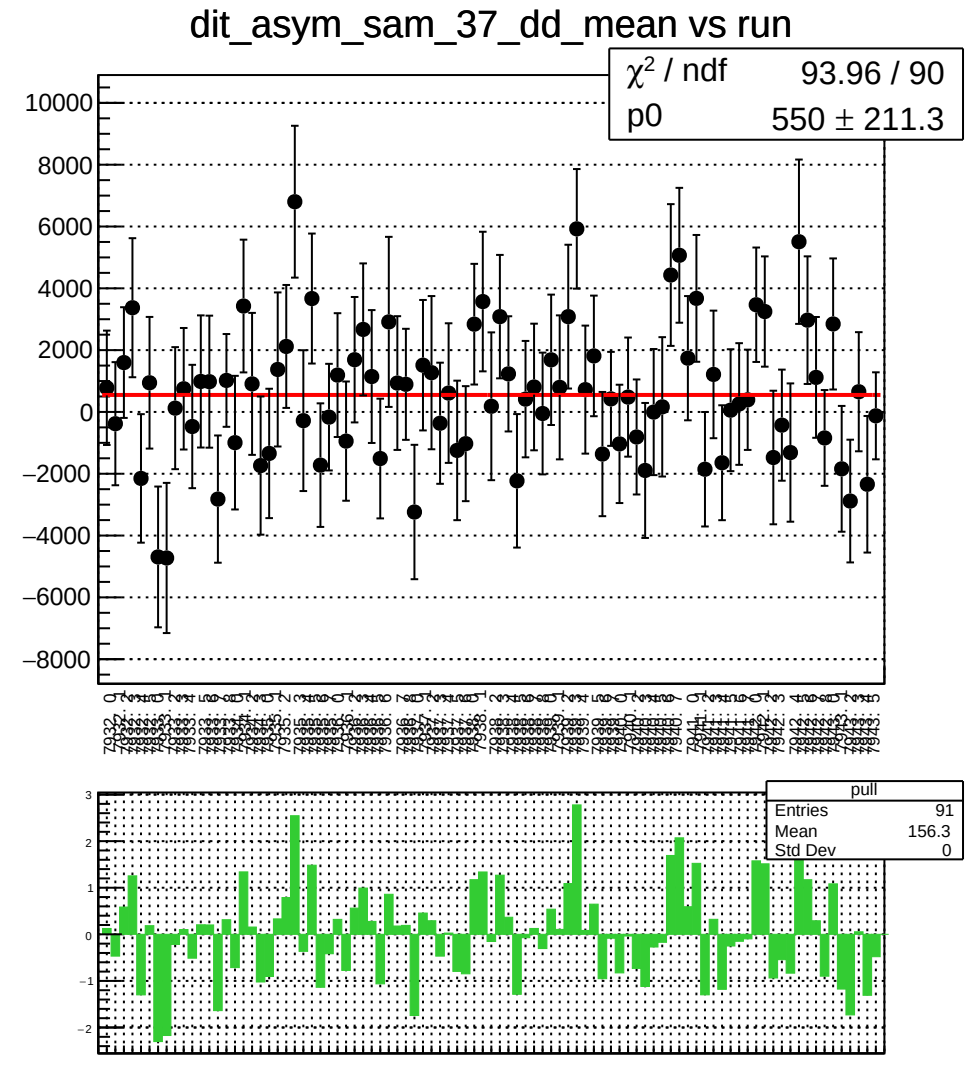

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 95.04 / 90
p0 527.8 ± 198.5
pull
Entries 91
Mean 135.5
Std Dev 0

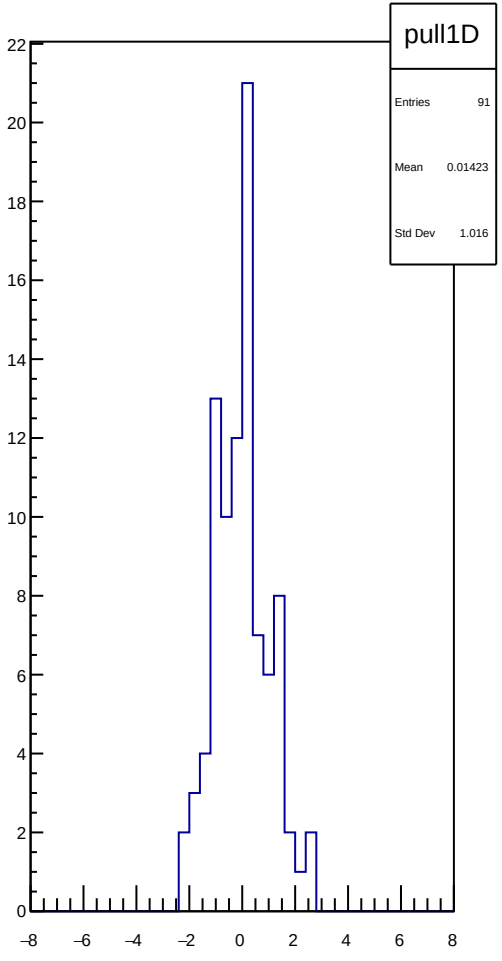

pull1D
Entries 91
Mean 0.01926
Std Dev 1.022


eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.02e+04 / 90
p0 185.1 ± 0.1404
260
240
220
200
180
160

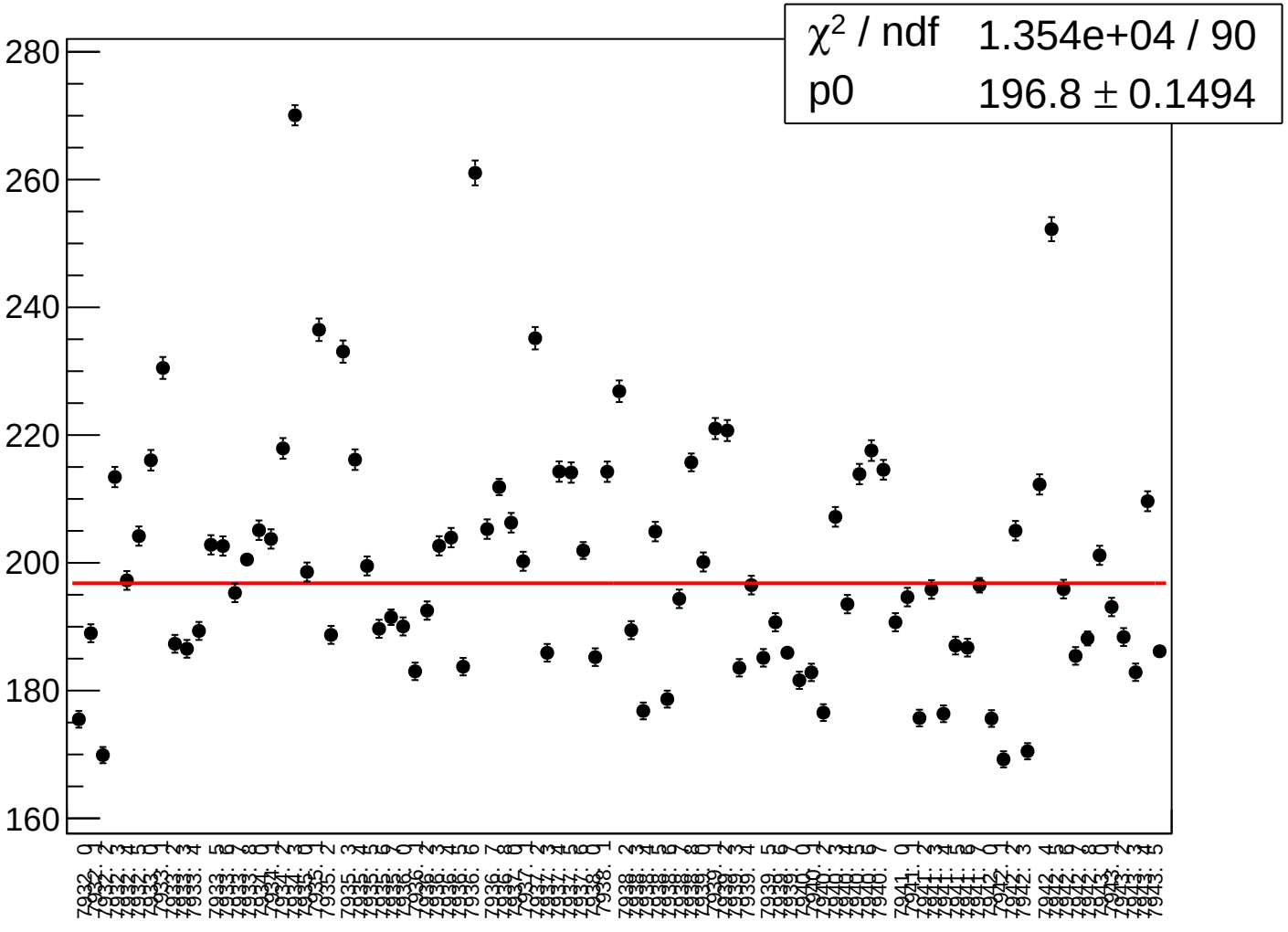

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −440.5 ± 1370
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −22.53
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01054
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

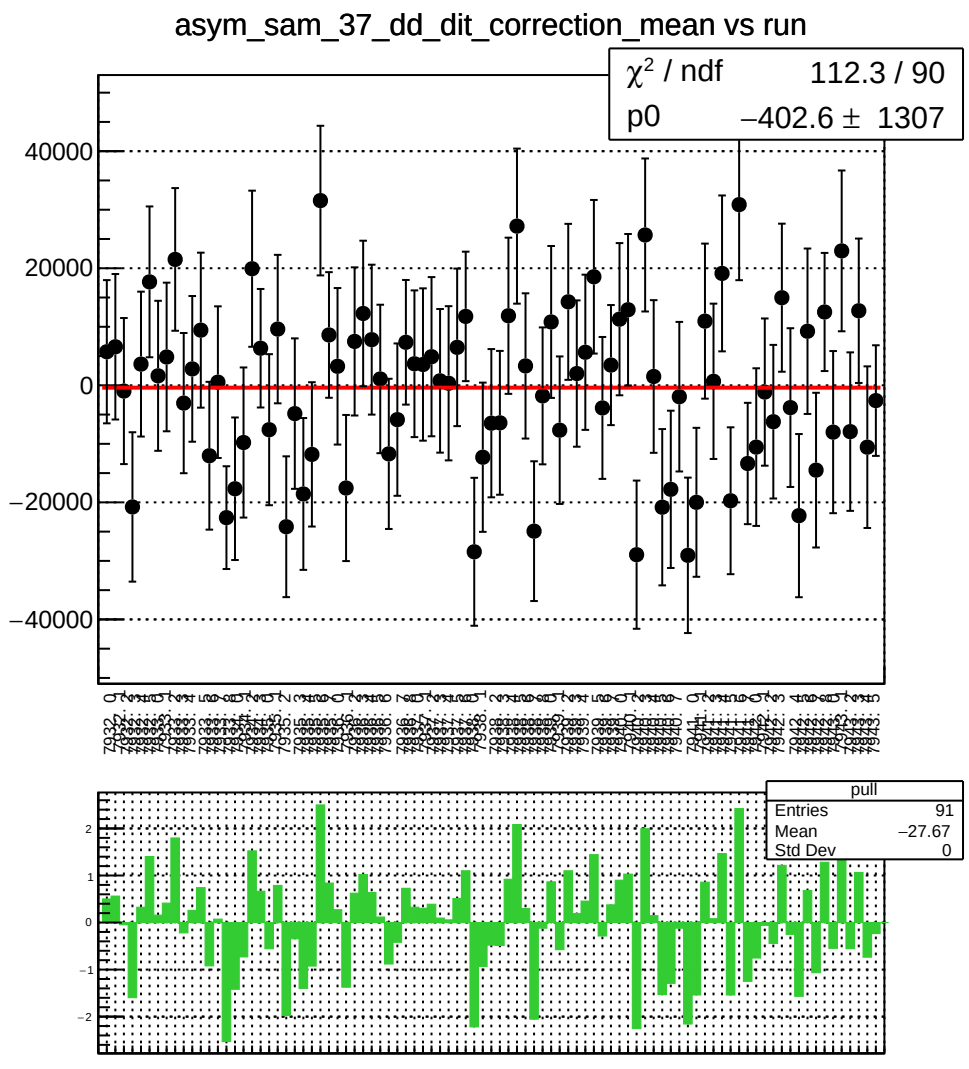

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2481 / 90
p0 1280 ± 0.9688
1400
1350
1300
1250
1200

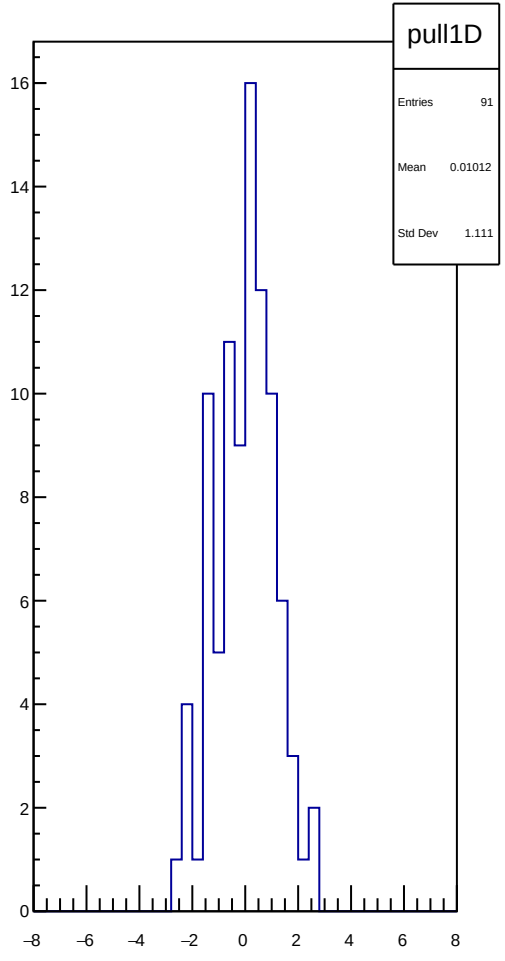

dit_asym_sam_37_dd_mean vs run
χ² / ndf 93.96 / 90
p0 550 ± 211.3
pull
Entries 91
Mean 156.3
Std Dev 0

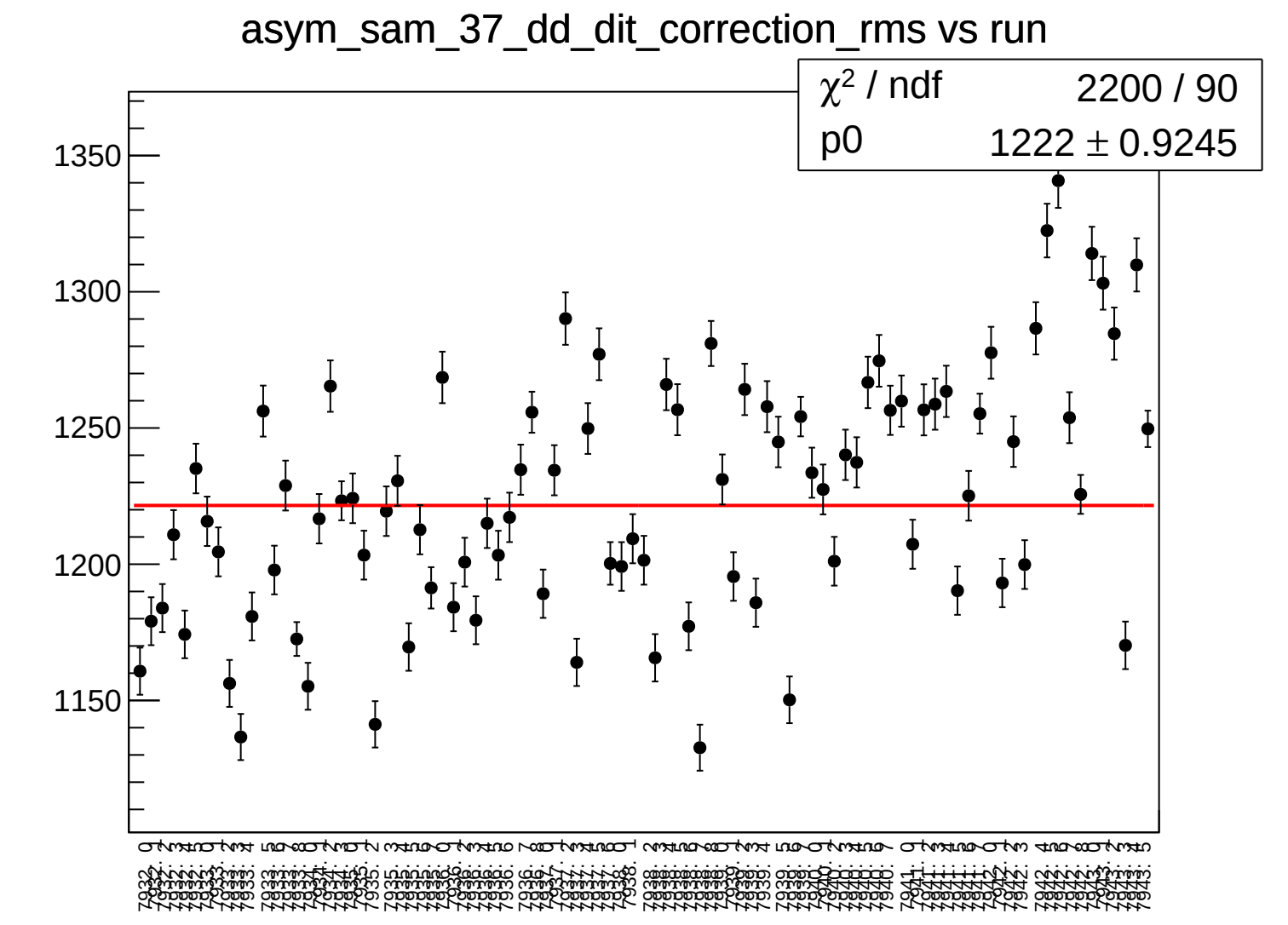

pull1D
Entries 91
Mean 0.01423
Std Dev 1.016

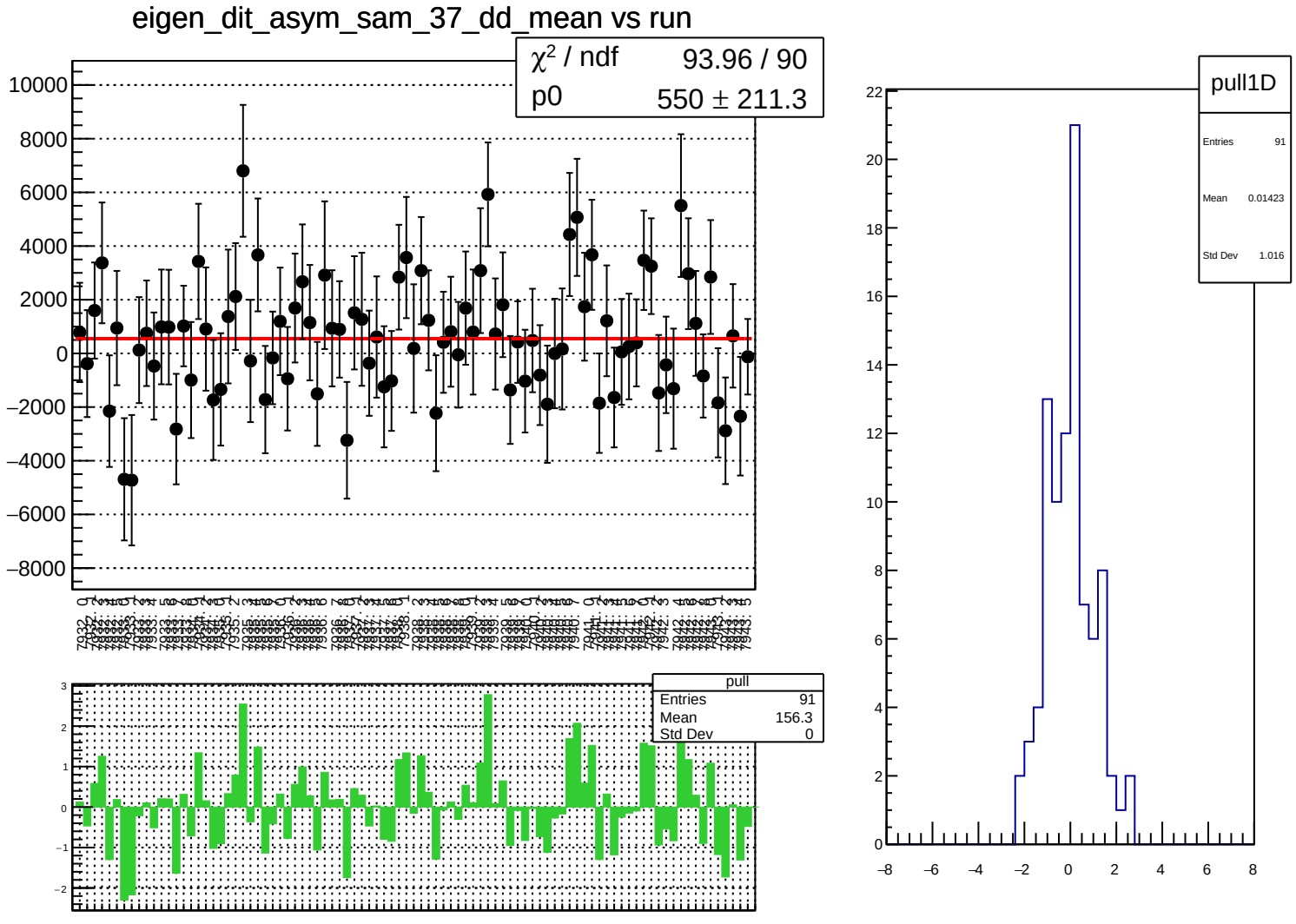
dit_asym_sam_37_dd_rms vs run

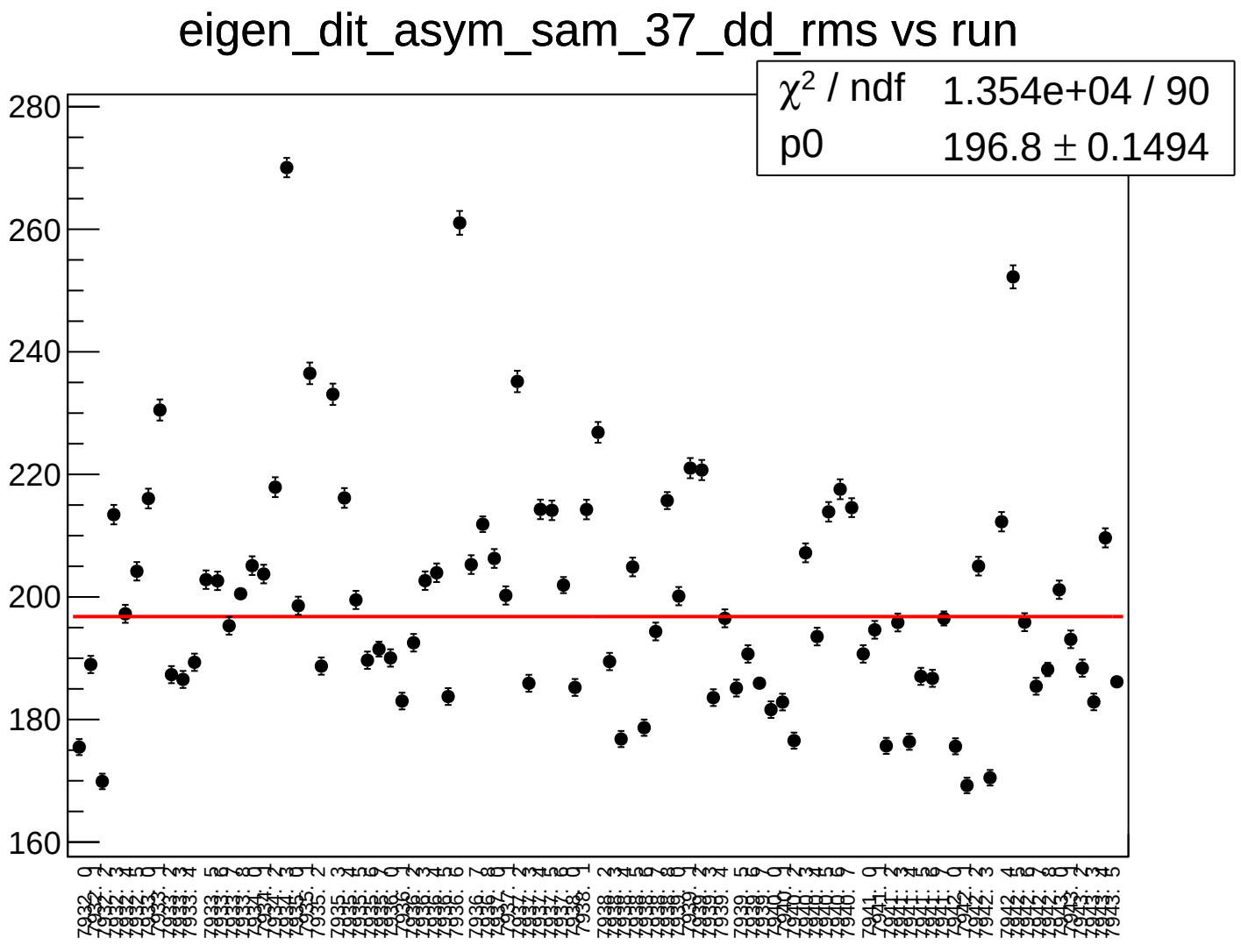


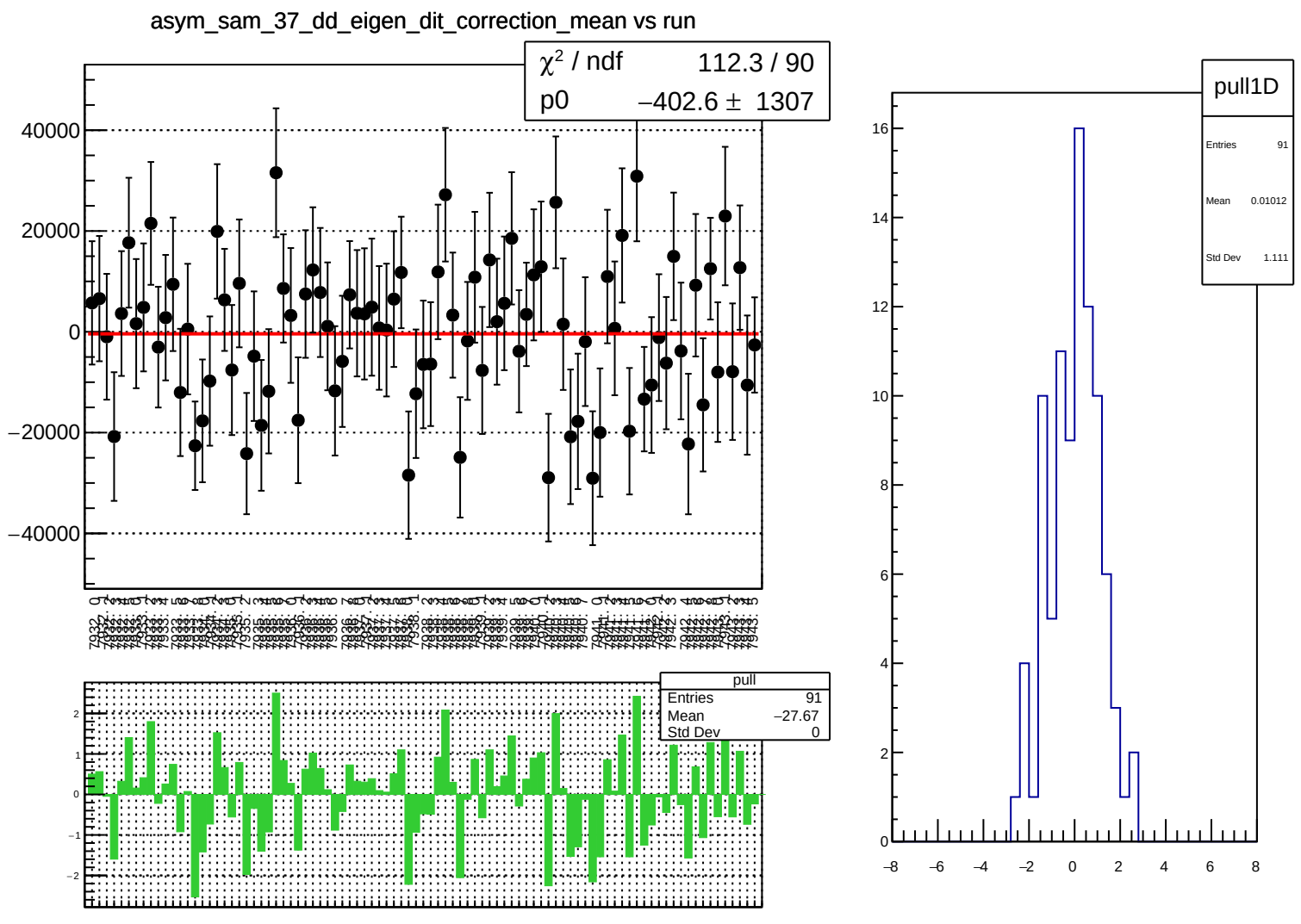

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 112.3 / 90
p0 −402.6 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −27.67
Std Dev 0
2
1
0
−1
−2

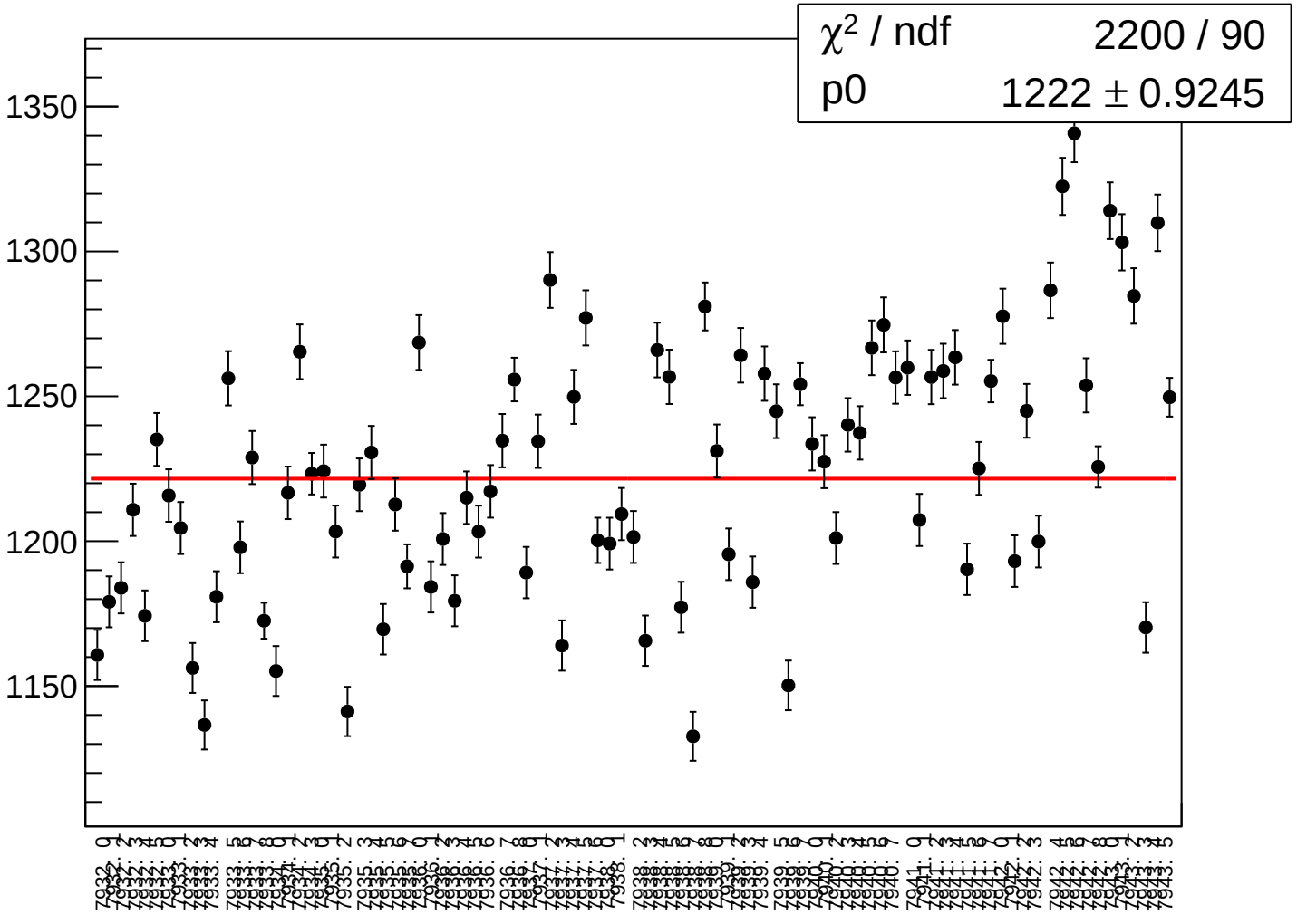

pull1D
Entries 91
Mean 0.01012
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

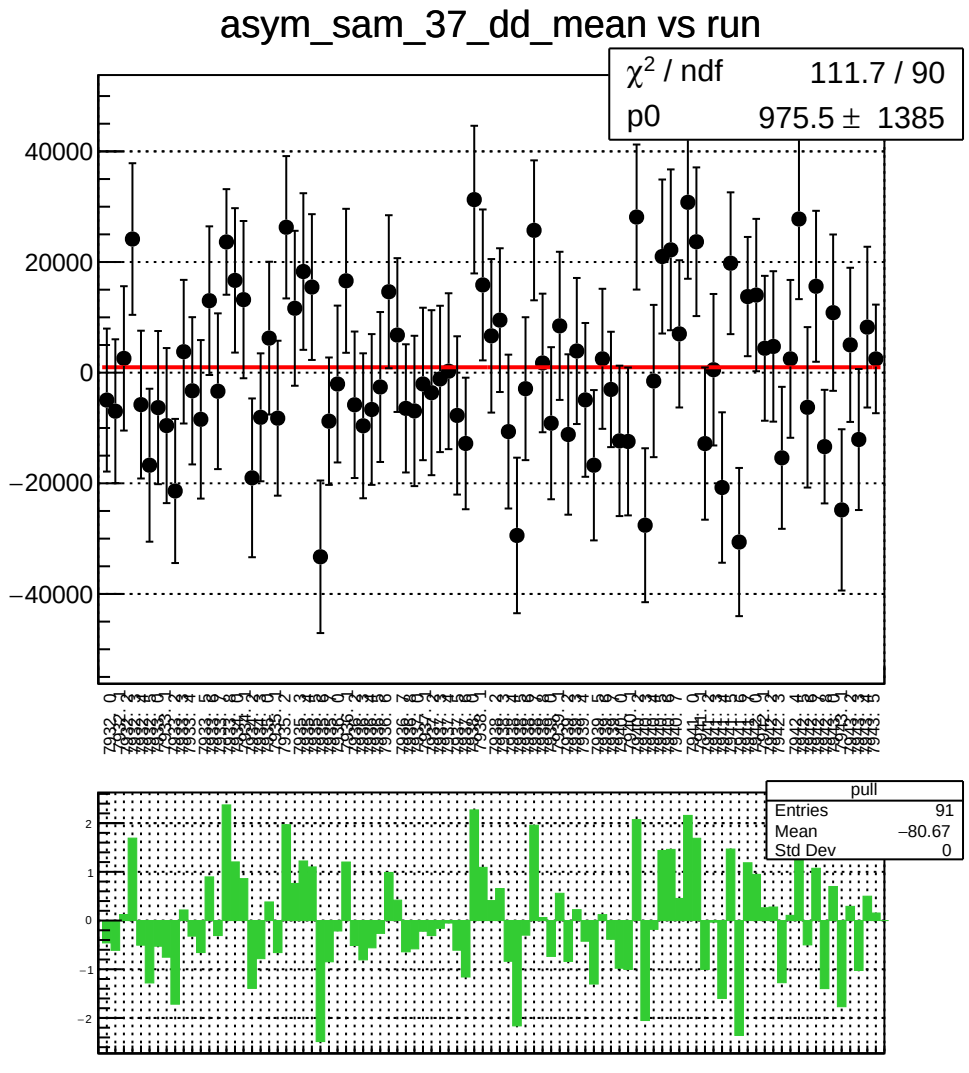

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2200 / 90
p0 1222 ± 0.9245
1350
1300
1250
1200
1150

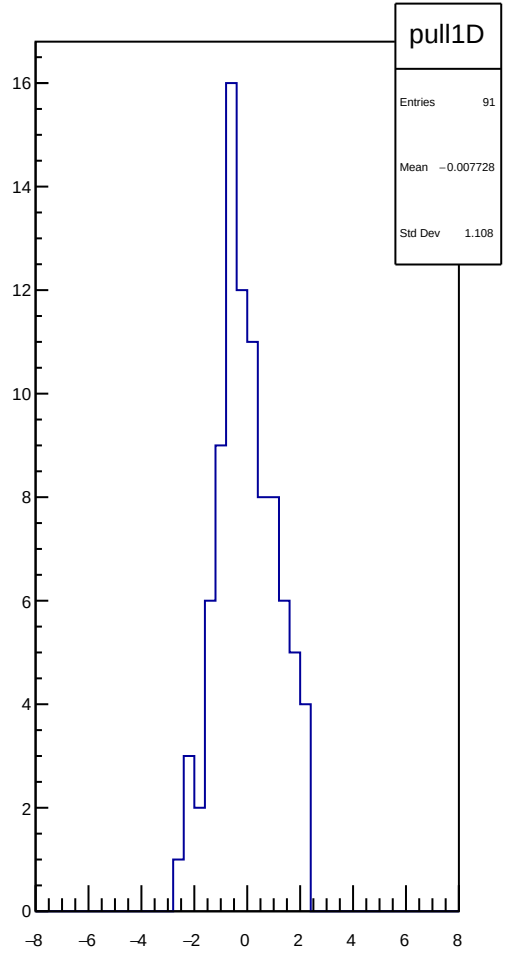

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 93.96 / 90
p0 550 ± 211.3
pull
Entries 91
Mean 156.3
Std Dev 0
pull1D
Entries 91
Mean 0.01423
Std Dev 1.016

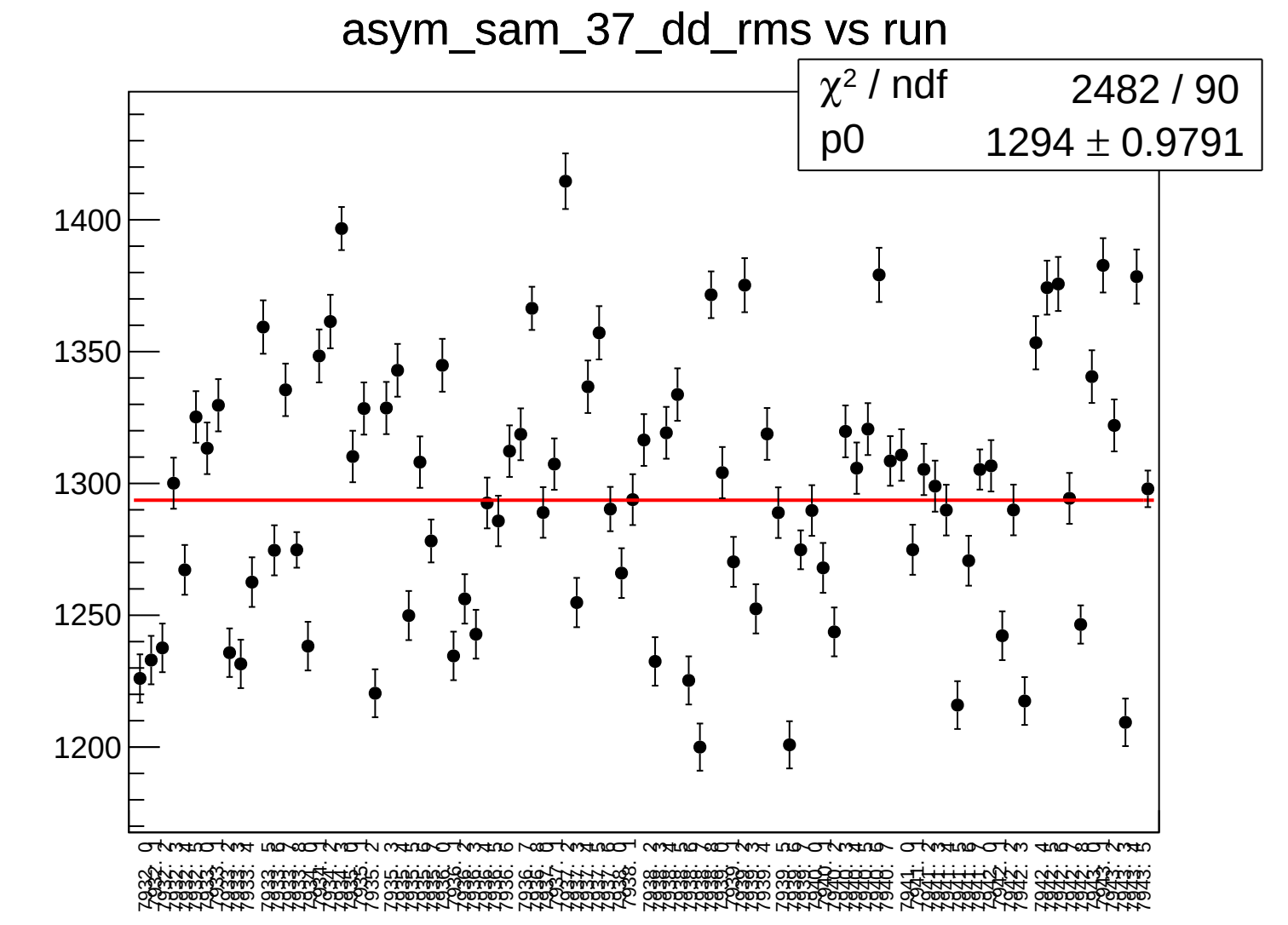

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.354e+04 / 90
p0 196.8 ± 0.1494
280
260
240
220
200
180
160

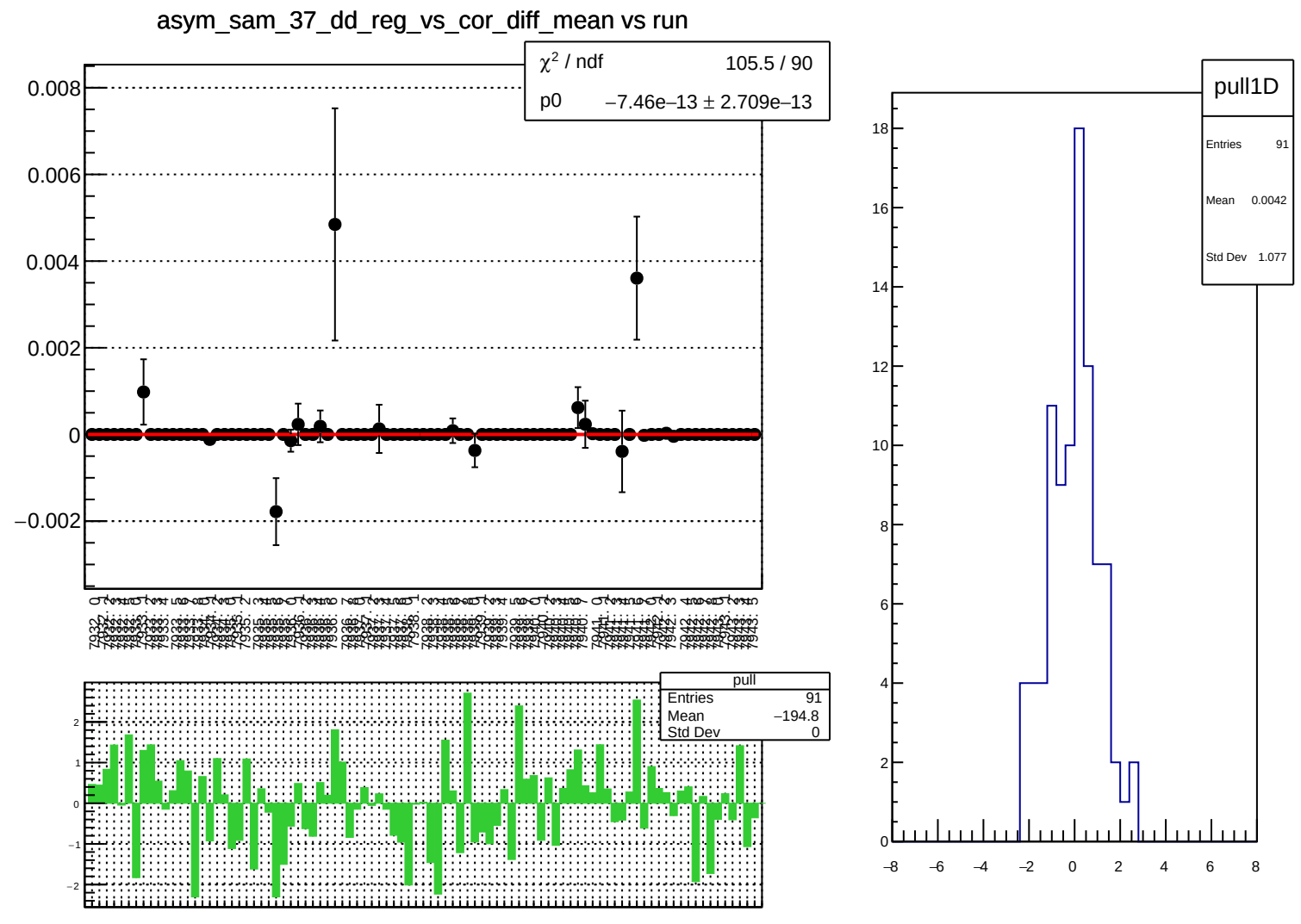

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.3 / 90
p0 −402.6 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −27.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01012
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

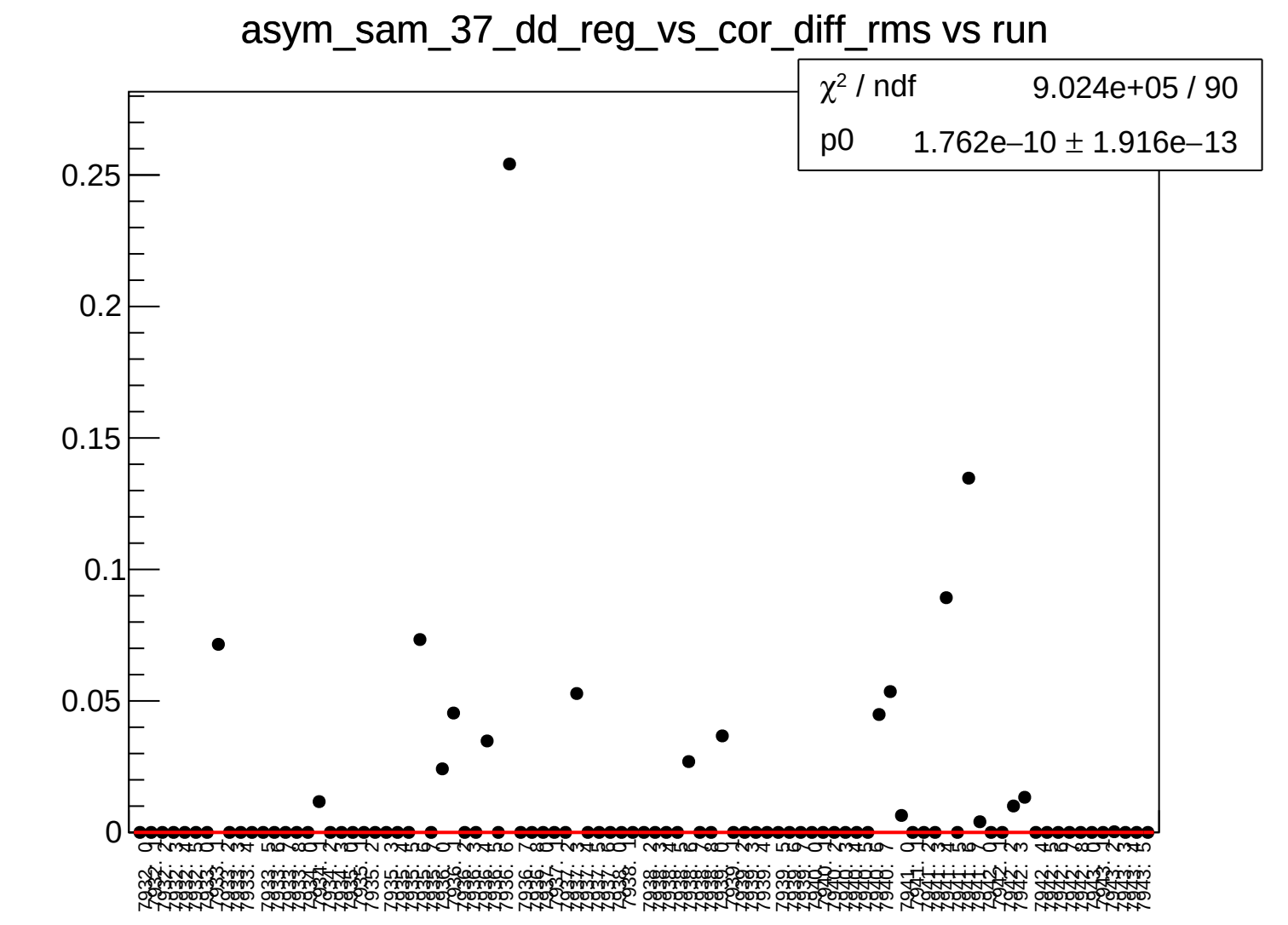

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2200 / 90
p0 1222 ± 0.9245
1350
1300
1250
1200
1150

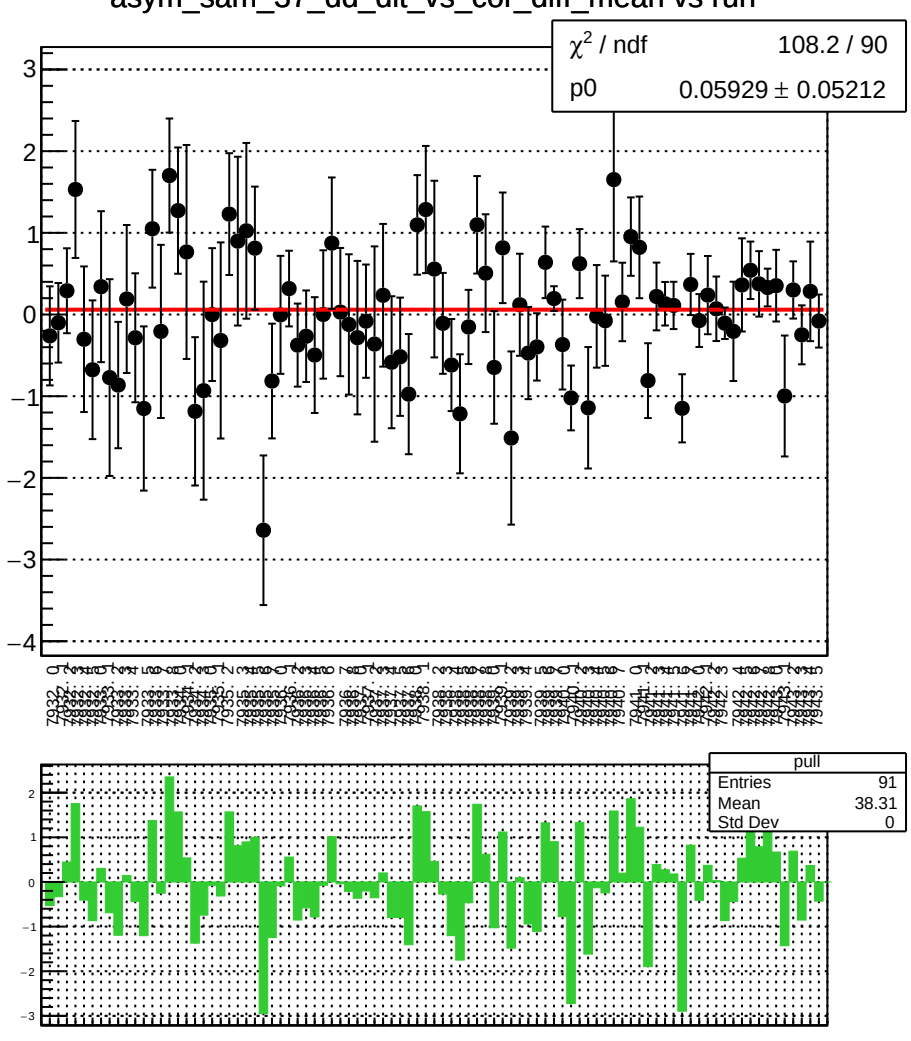

asym_sam_37_dd_mean vs run
χ² / ndf 111.7 / 90
p0 975.5 ± 1385
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −80.67
Std Dev 0
2
1
0
−1
−2

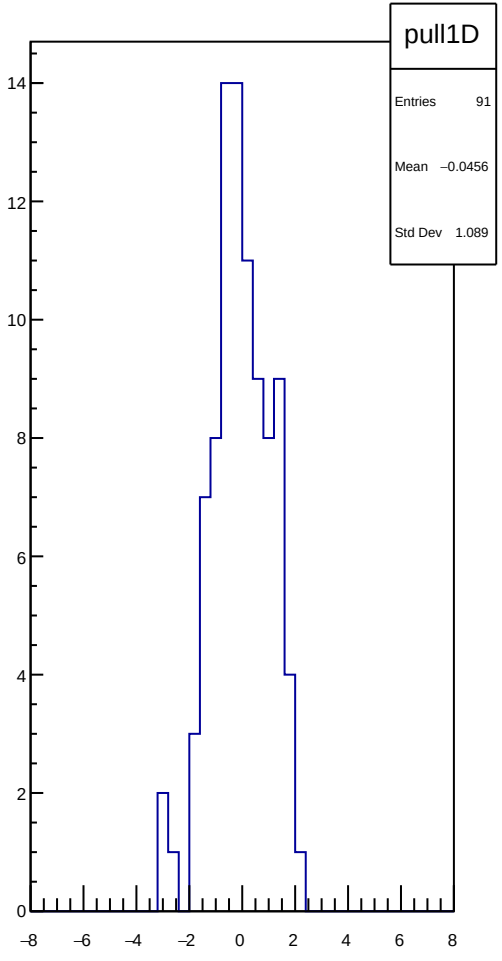

pull1D
Entries 91
Mean −0.007728
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

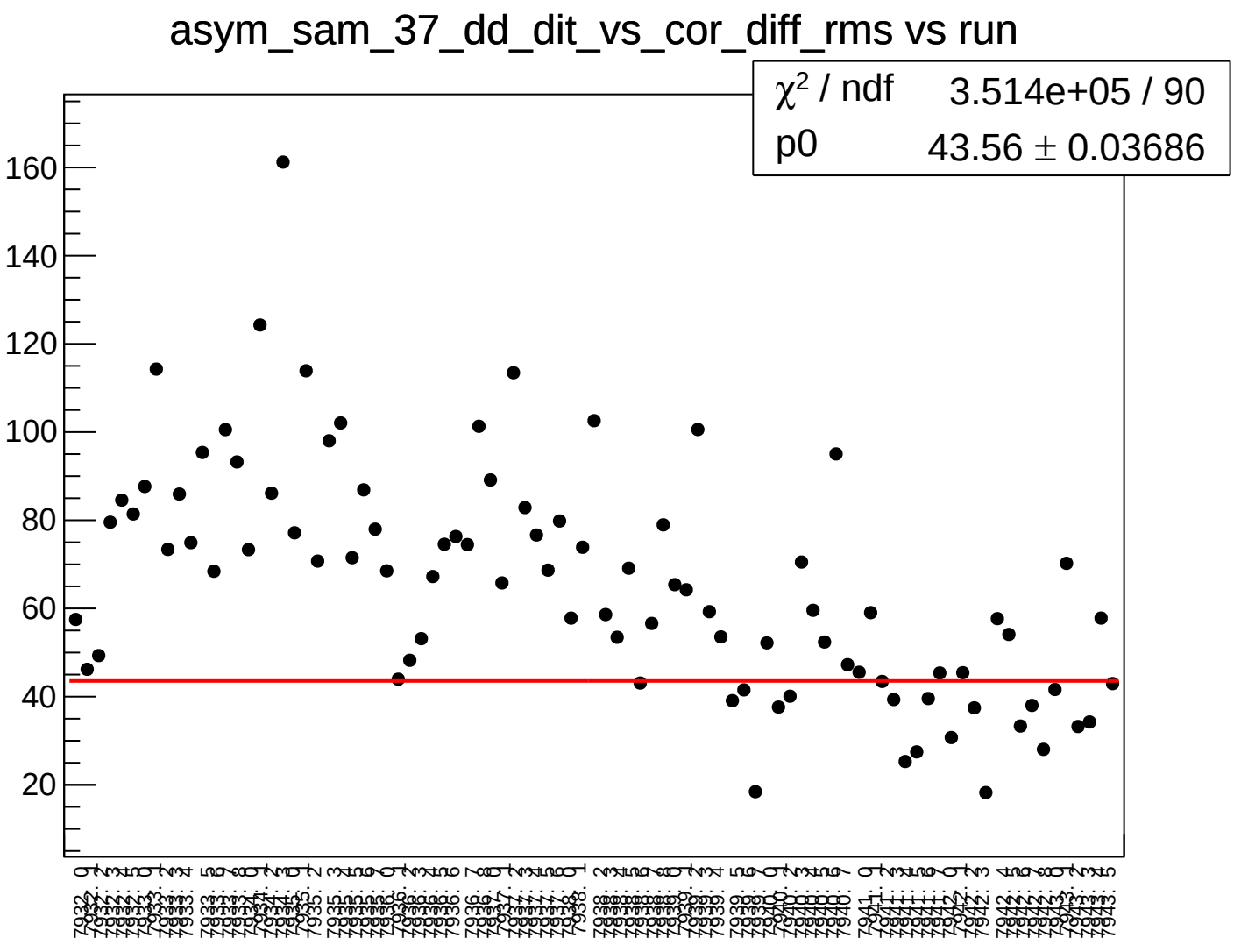

asym_sam_37_dd_rms vs run
χ² / ndf 2482 / 90
p0 1294 ± 0.9791
1400
1350
1300
1250
1200

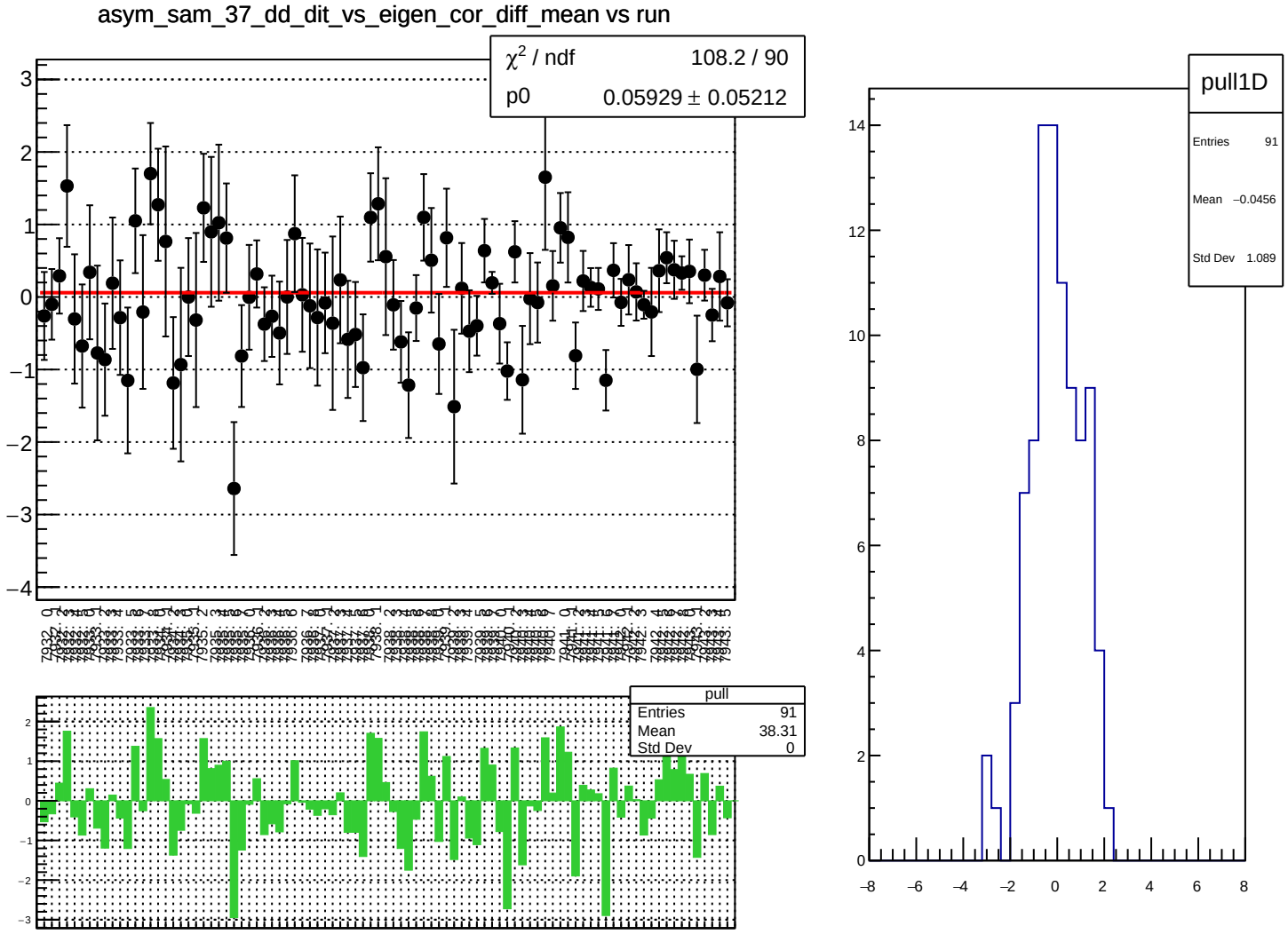

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 90
p0 −7.46e−13 ± 2.709e−13
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 91
Mean −194.8
Std Dev 0
pull1D
Entries 91
Mean 0.0042
Std Dev 1.077

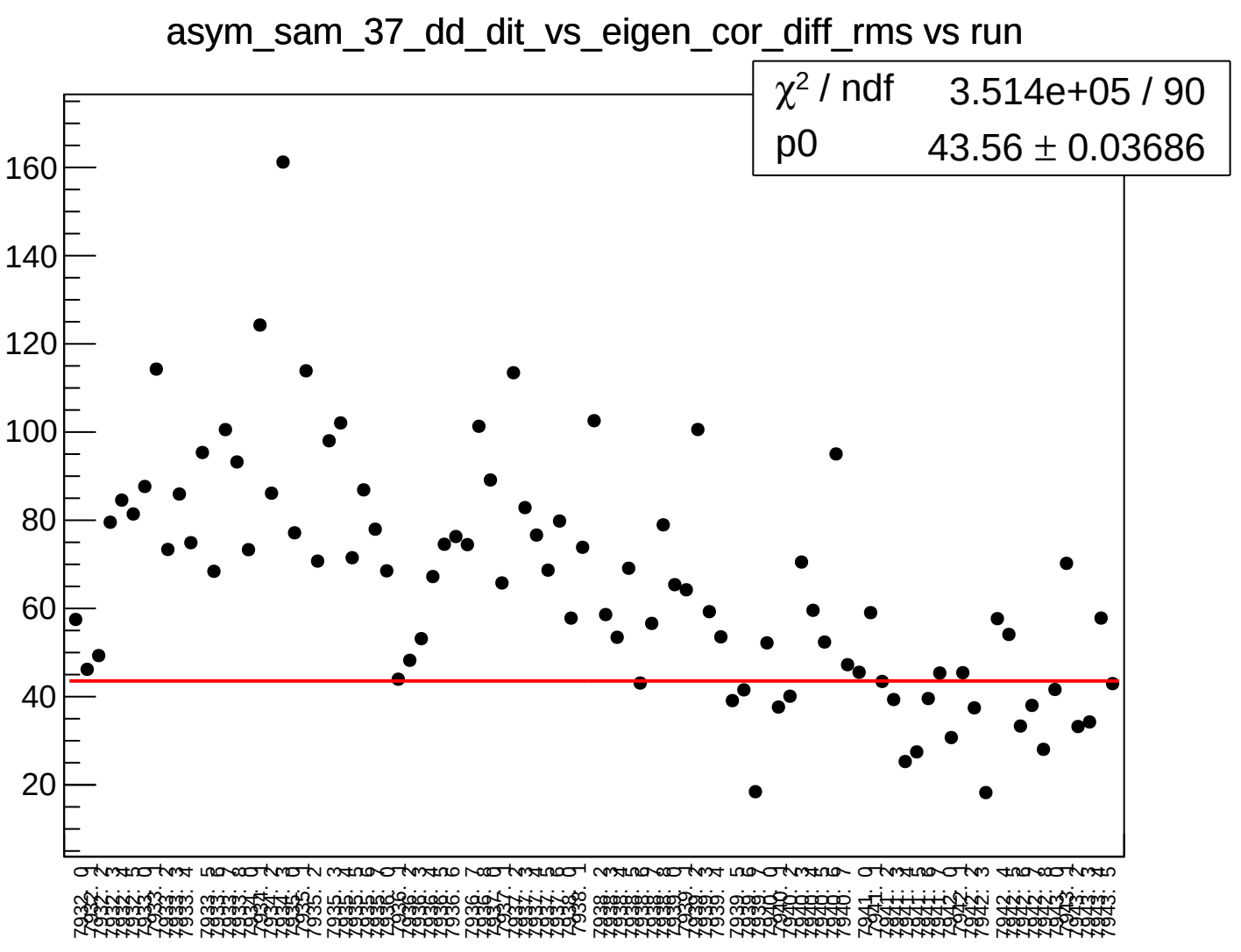

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.024e+05 / 90
p0 1.762e−10 ± 1.916e−13
0.25
0.2
0.15
0.1
0.05
0

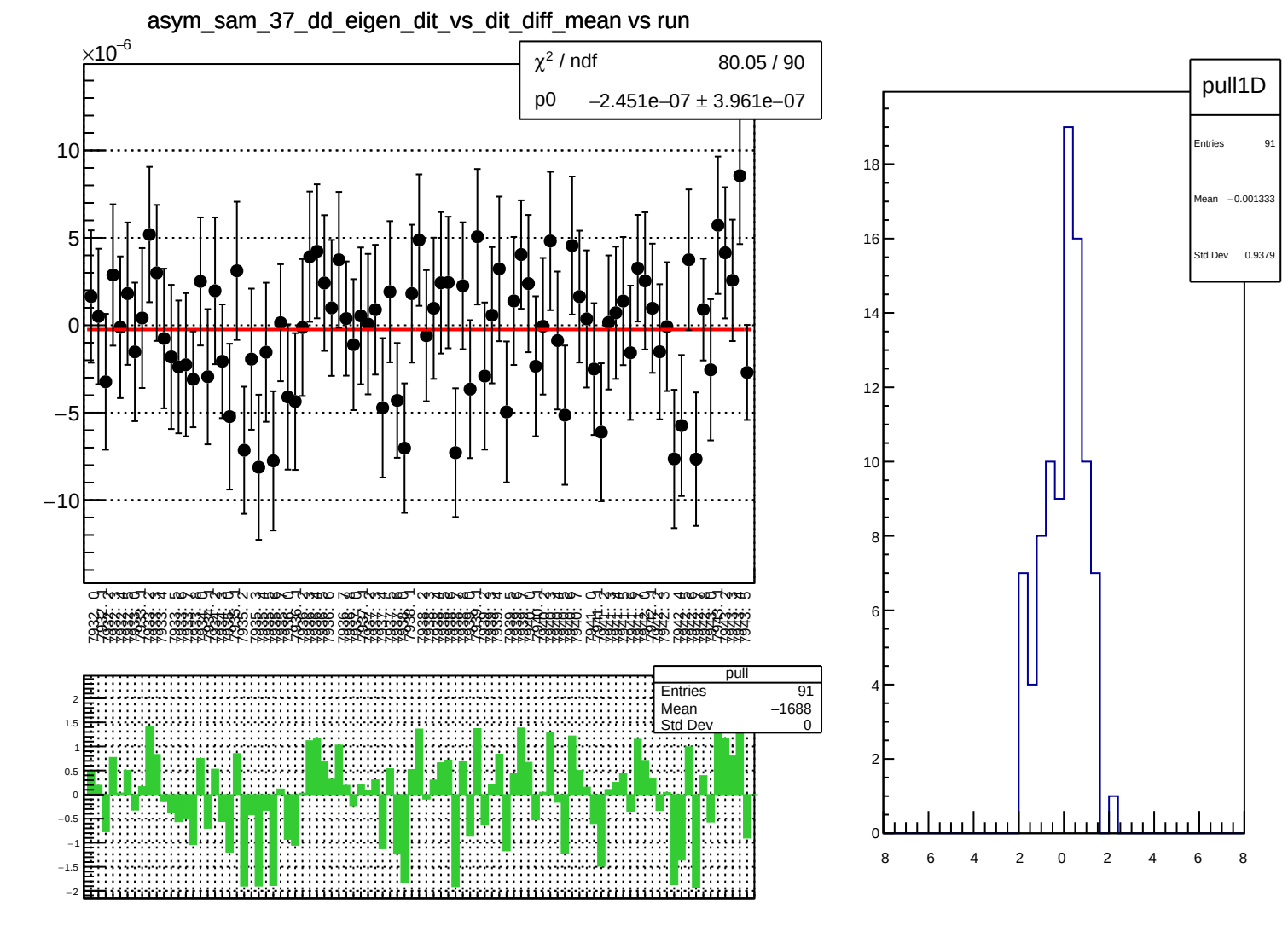

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 90
p0 0.05929 ± 0.05212
pull
Entries 91
Mean 38.31
Std Dev 0

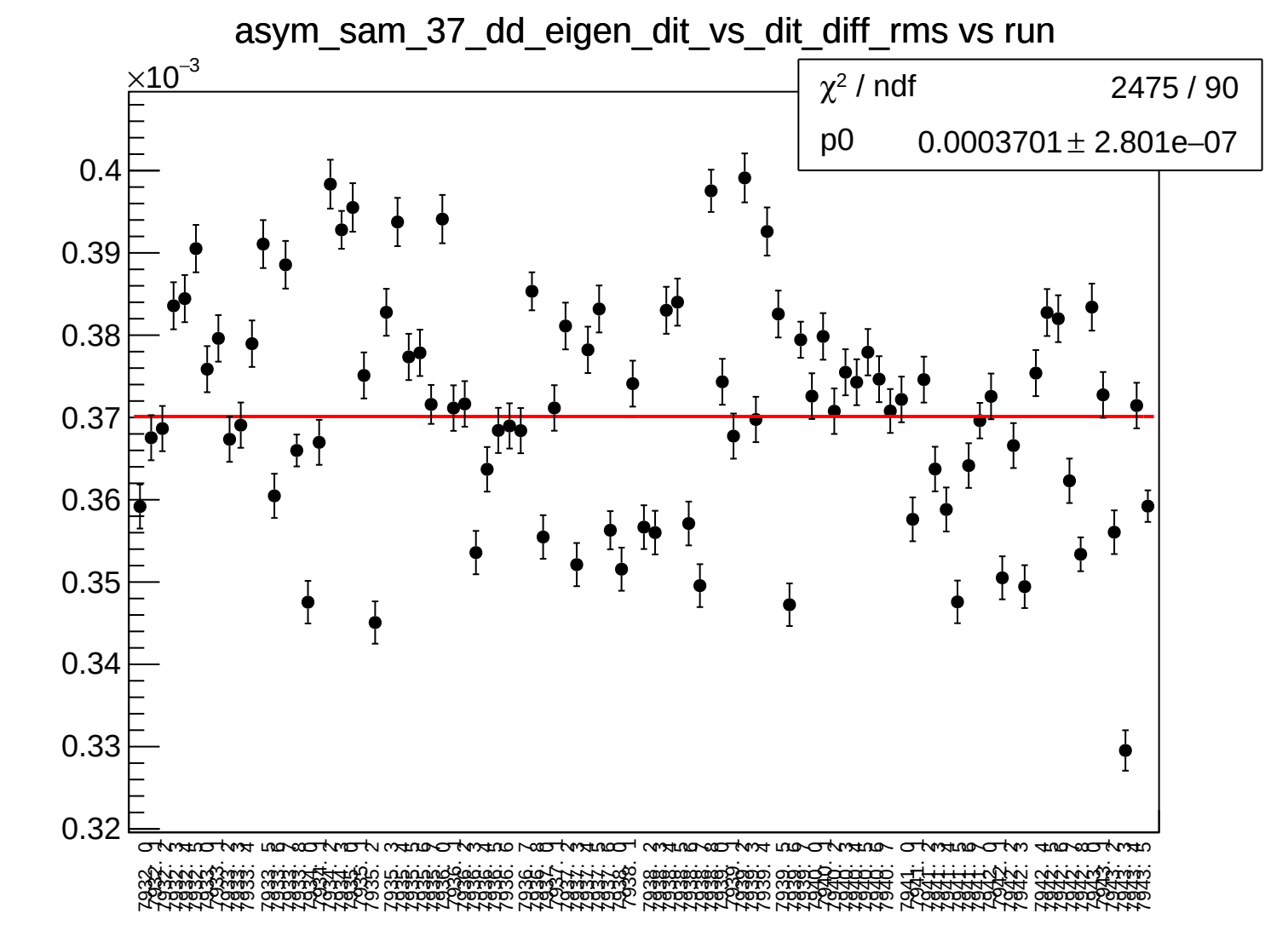

pull1D
Entries 91
Mean −0.0456
Std Dev 1.089

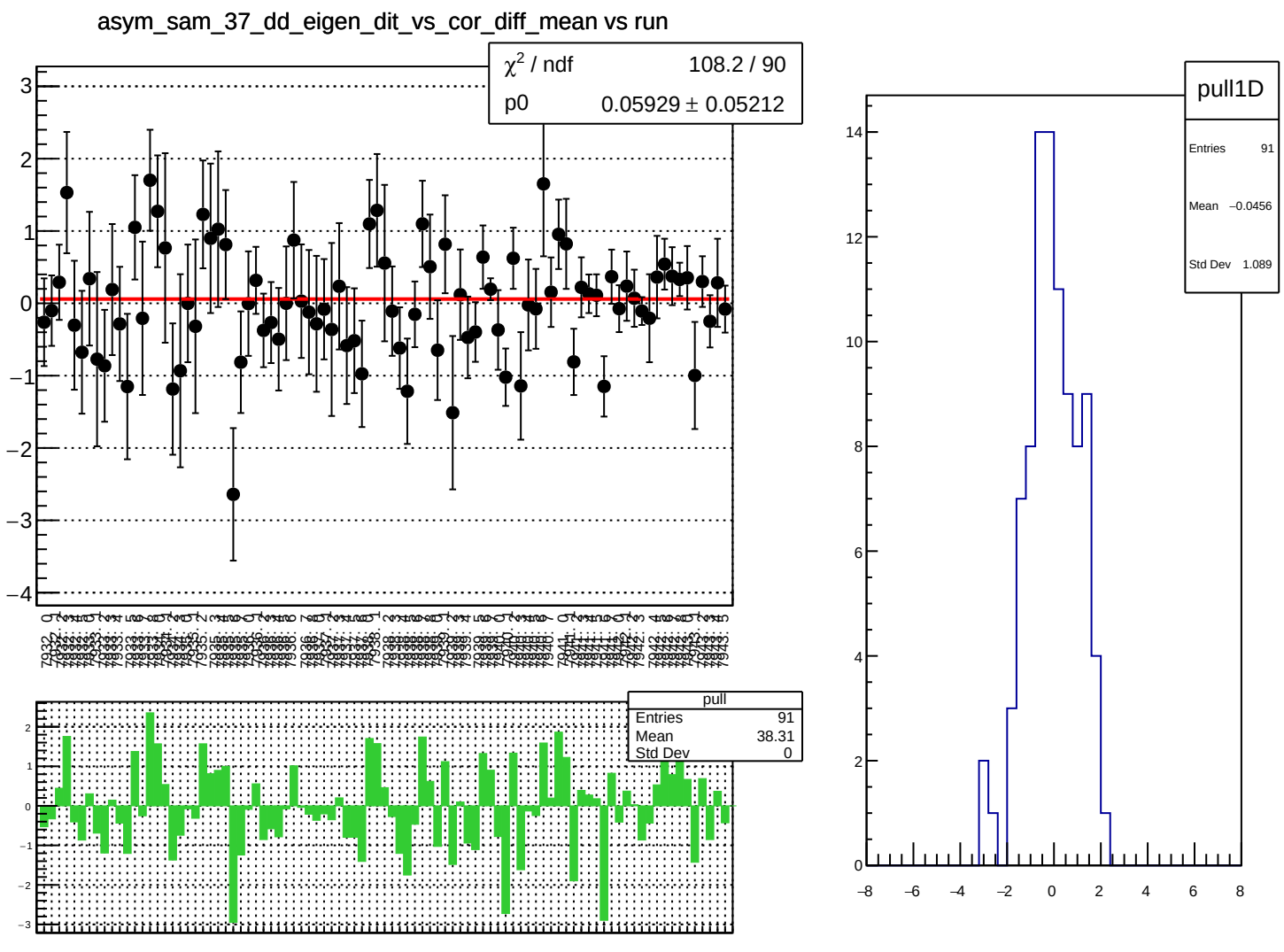

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.514e+05 / 90
p0 43.56 ± 0.03686
160
140
120
100
80
60
40
20

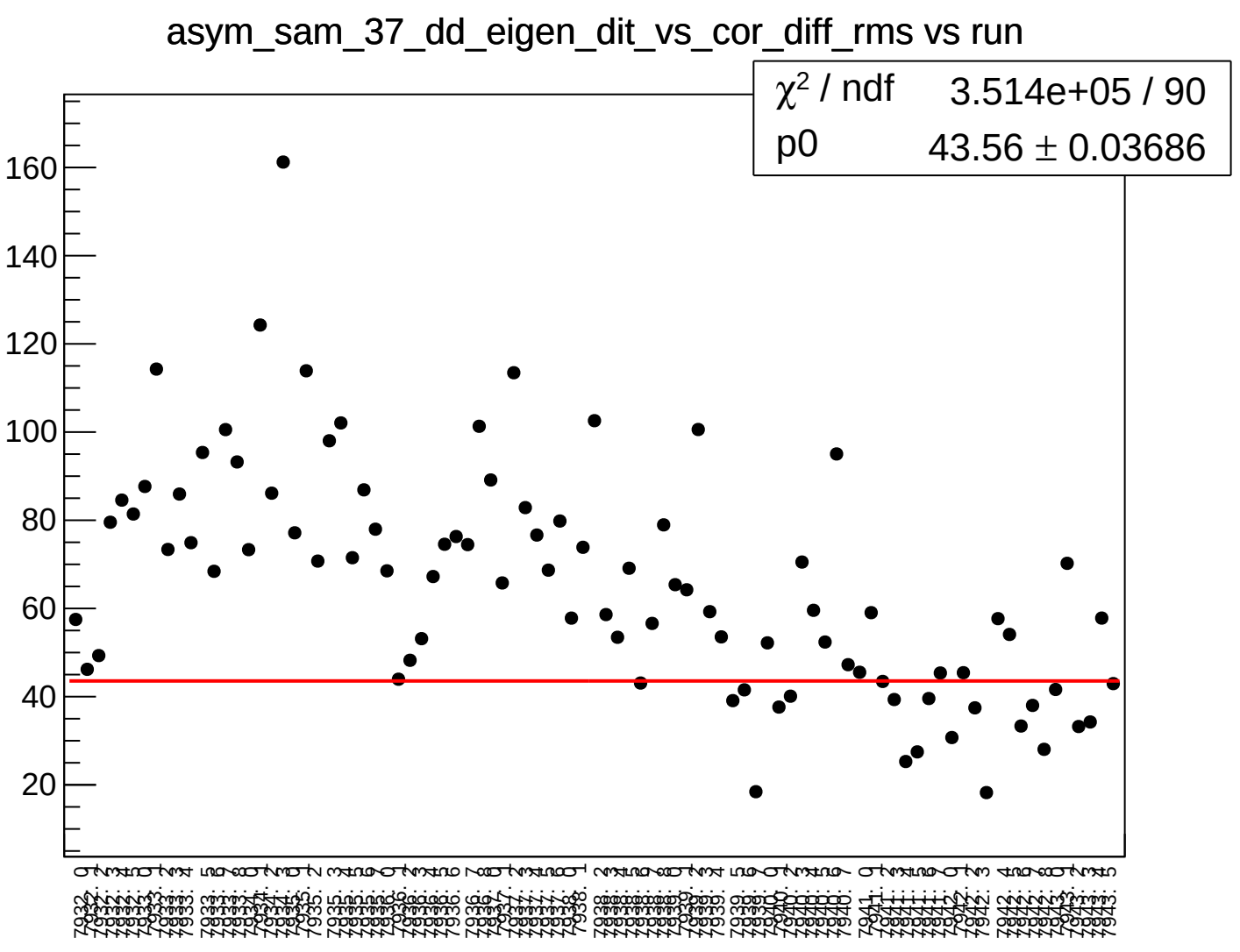

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 90
p0 0.05929 ± 0.05212
pull
Entries 91
Mean 38.31
Std Dev 0
pull1D
Entries 91
Mean −0.0456
Std Dev 1.089

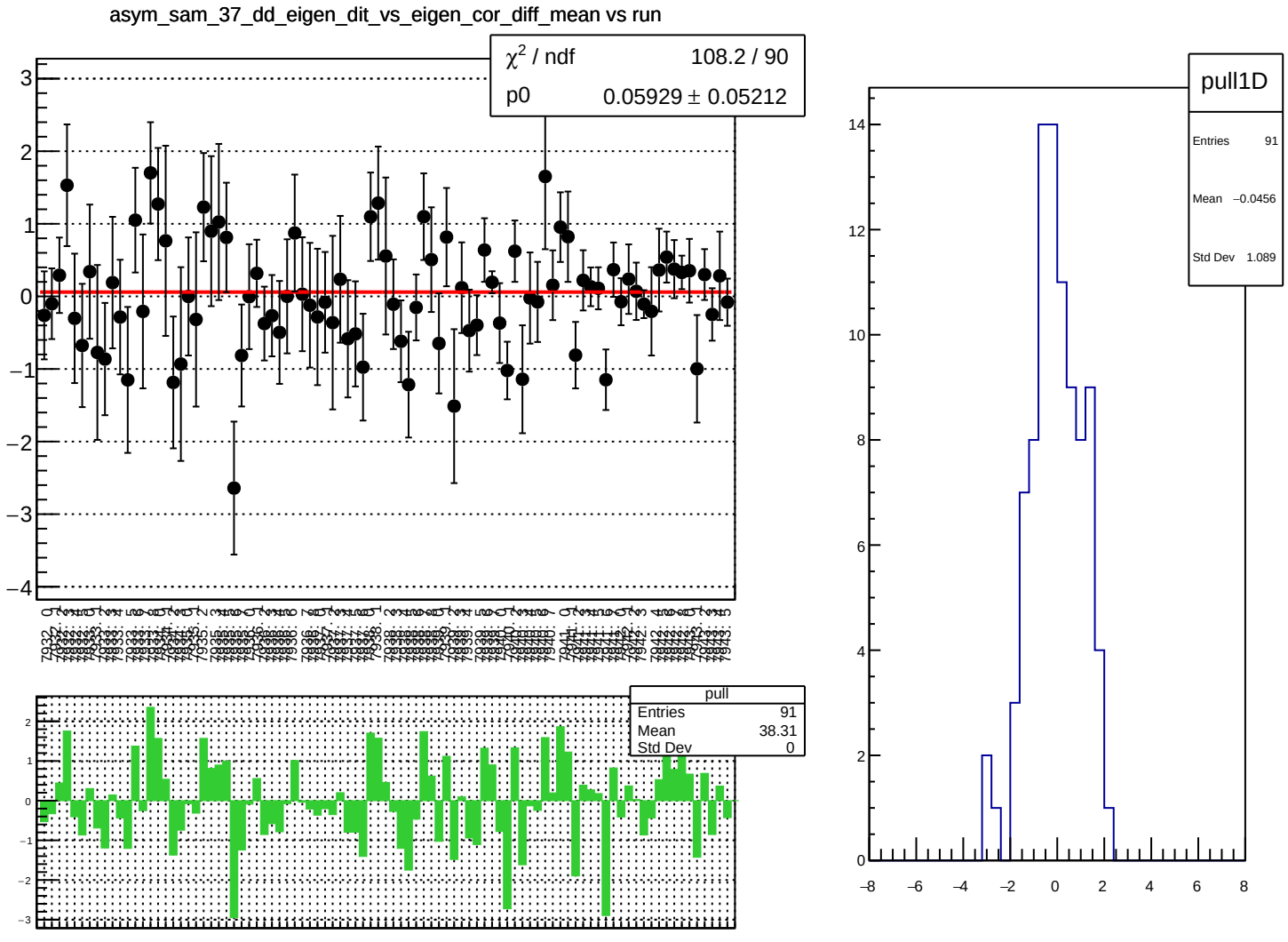

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.514e+05 / 90
p0 43.56 ± 0.03686
160
140
120
100
80
60
40
20

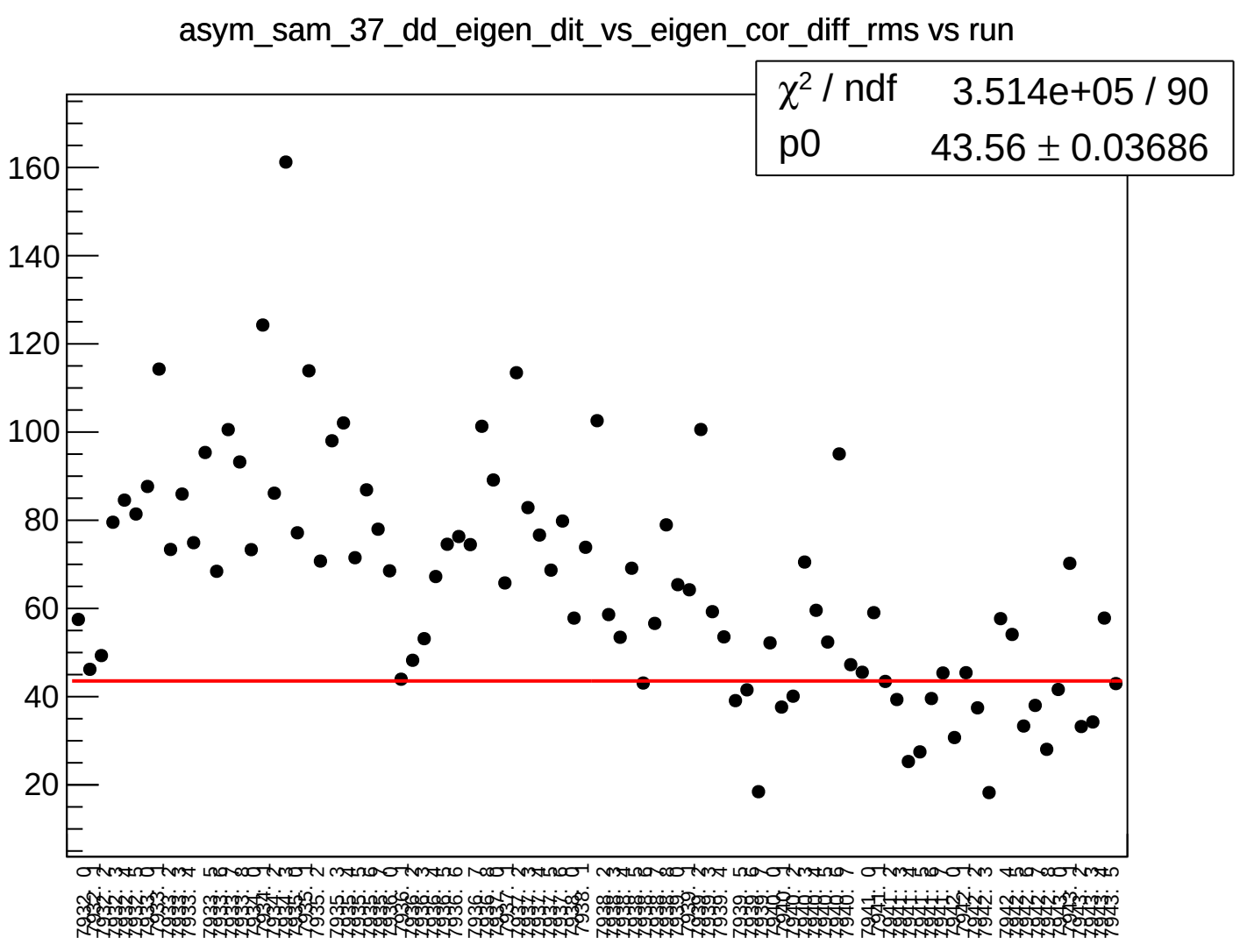

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 80.05 / 90
p0 −2.451e−07 ± 3.961e−07
10
5
0
−5
−10
pull
Entries 91
Mean −1688
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.001333
Std Dev 0.9379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

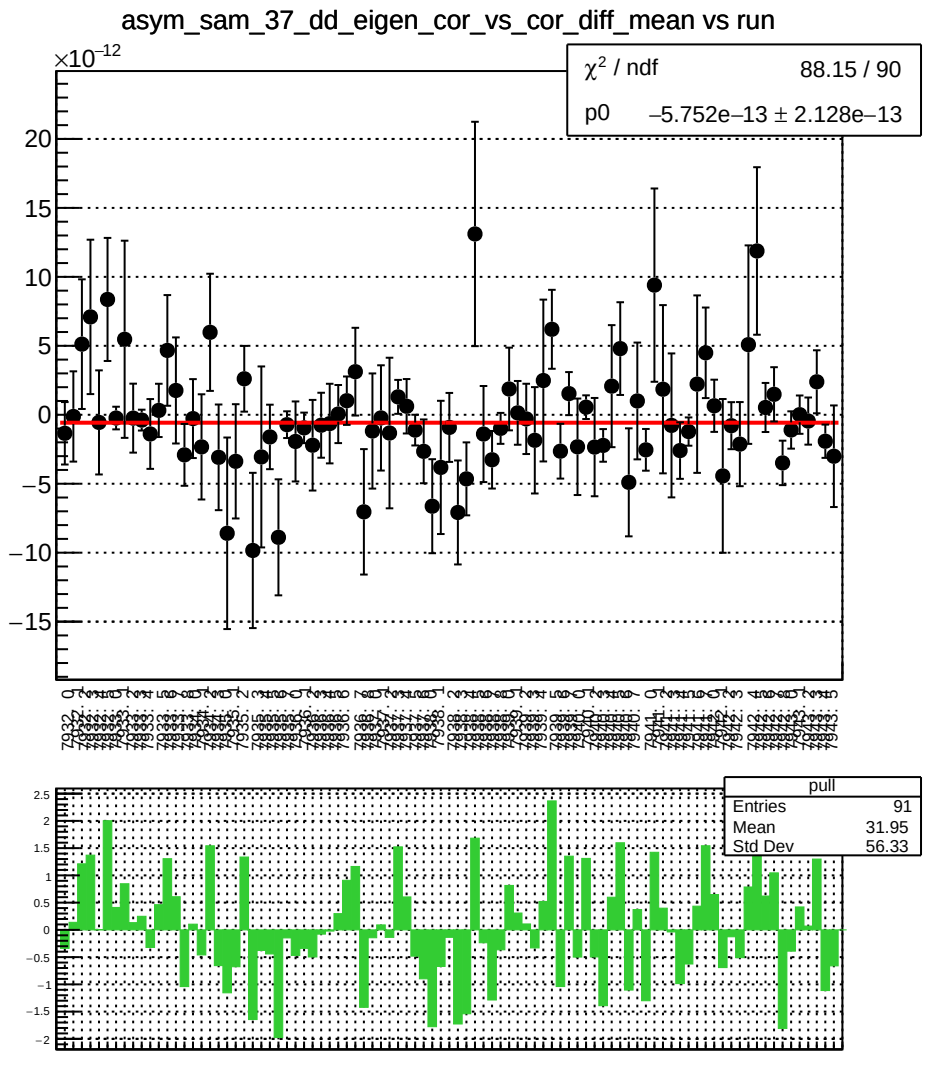

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2475 / 90
p0 0.0003701 ± 2.801e–07
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0.32

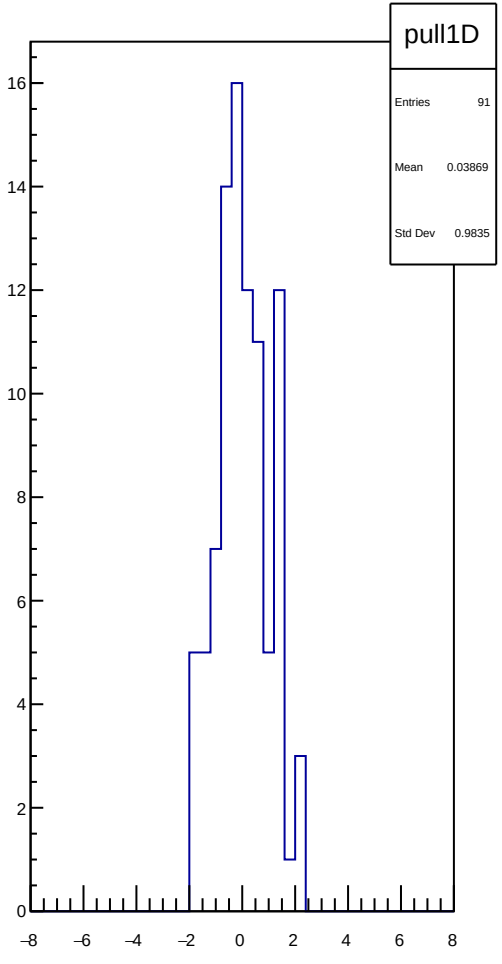

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 90
p0 0.05929 ± 0.05212
pull
Entries 91
Mean 38.31
Std Dev 0
pull1D
Entries 91
Mean −0.0456
Std Dev 1.089

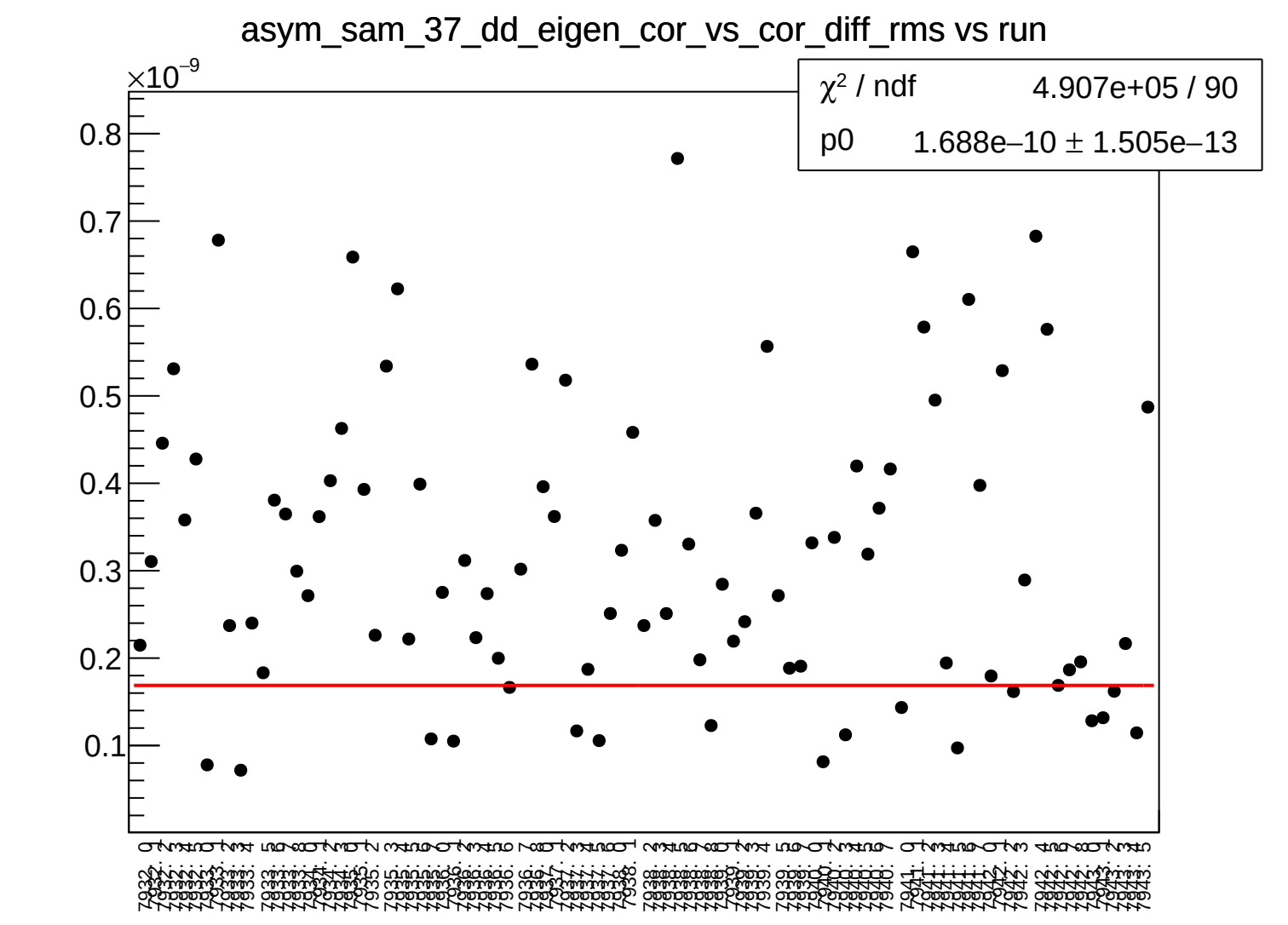

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.514e+05 / 90
p0 43.56 ± 0.03686
160
140
120
100
80
60
40
20

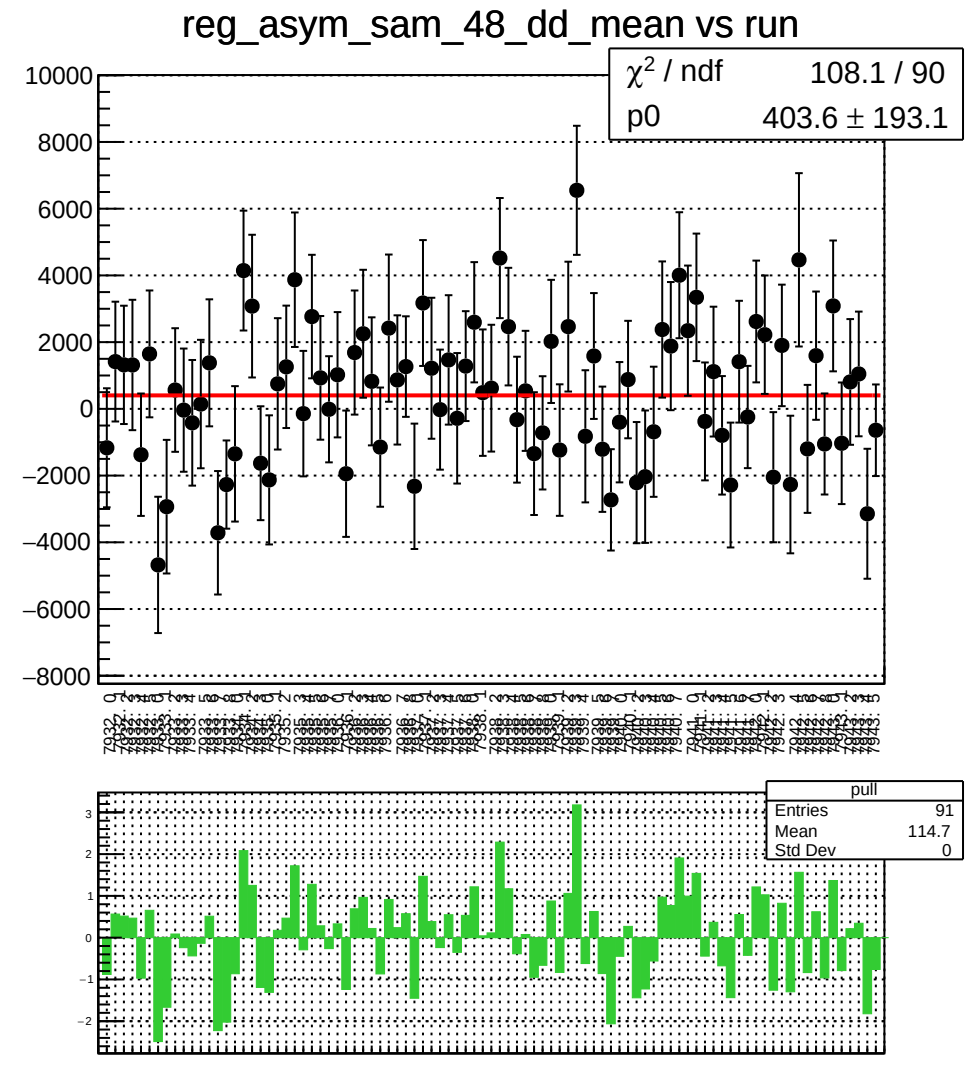

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 90
p0 0.05929 ± 0.05212
pull
Entries 91
Mean 38.31
Std Dev 0
pull1D
Entries 91
Mean −0.0456
Std Dev 1.089

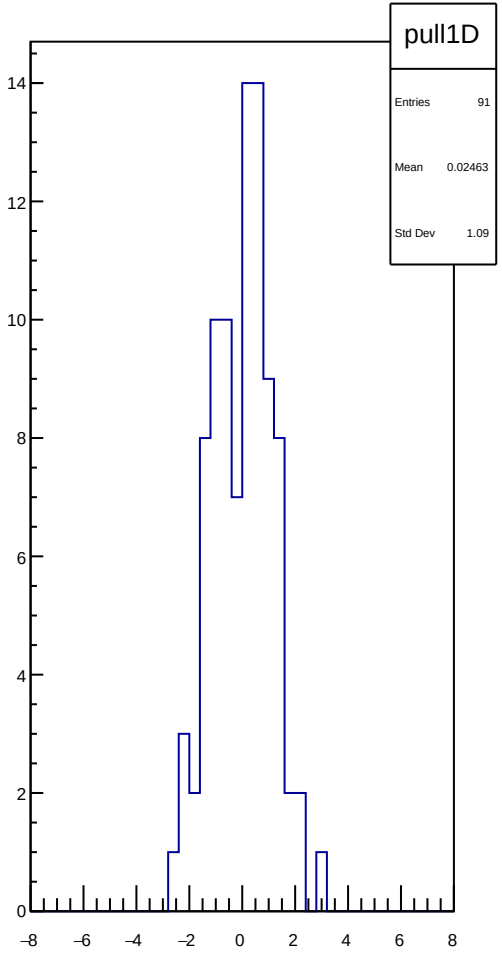

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.514e+05 / 90
p0 43.56 ± 0.03686
160
140
120
100
80
60
40
20

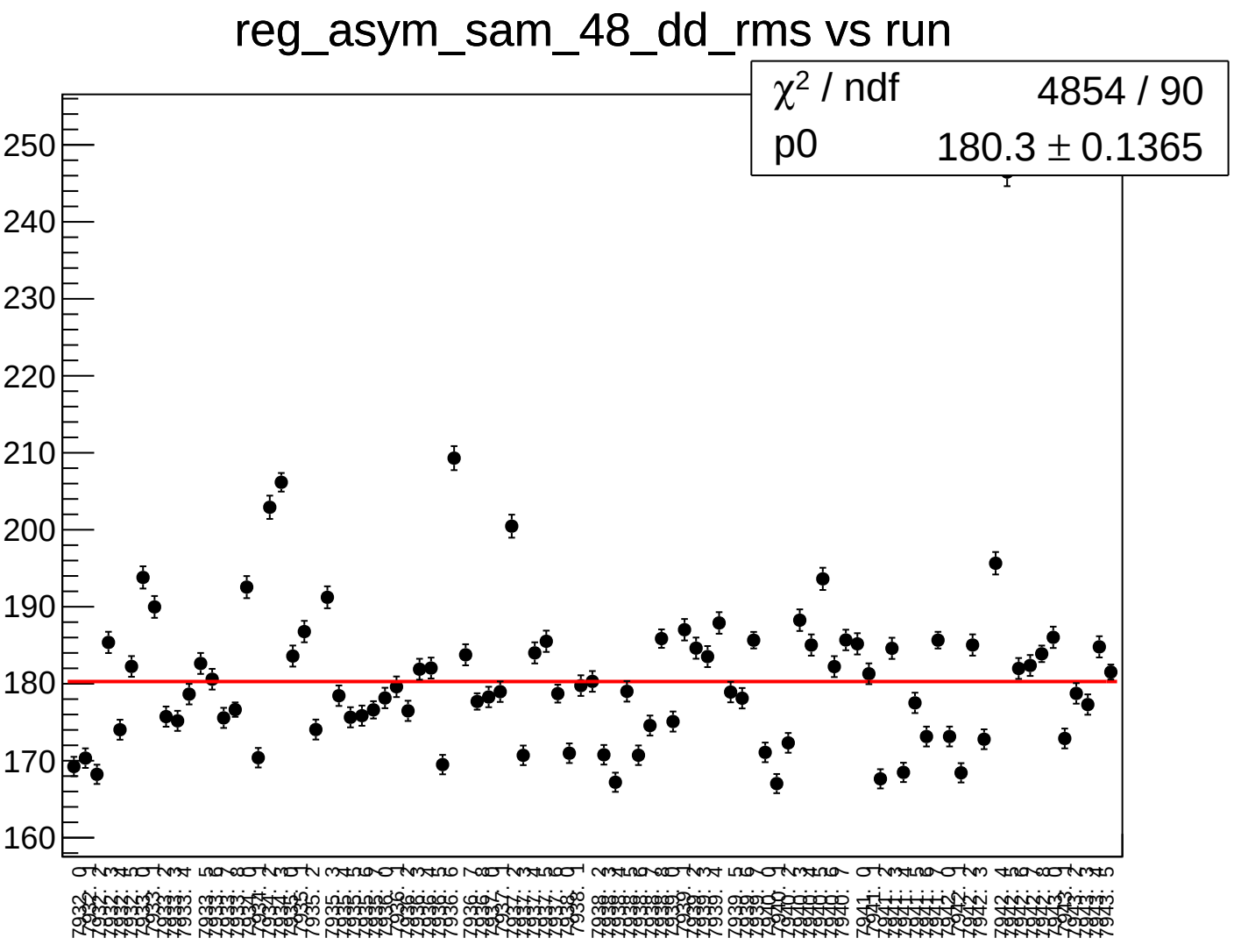

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.15 / 90
p0 −5.752e−13 ± 2.128e−13
pull
Entries 91
Mean 31.95
Std Dev 56.33

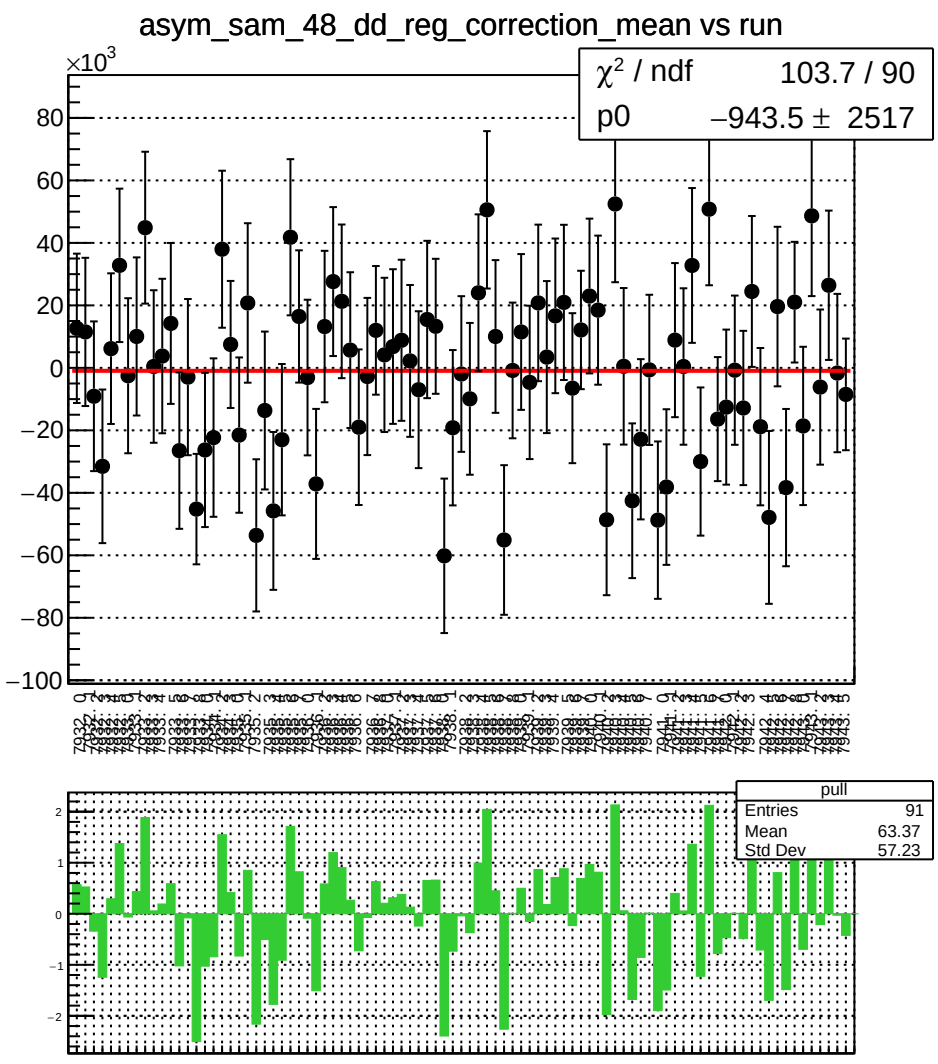

pull1D
Entries 91
Mean 0.03869
Std Dev 0.9835

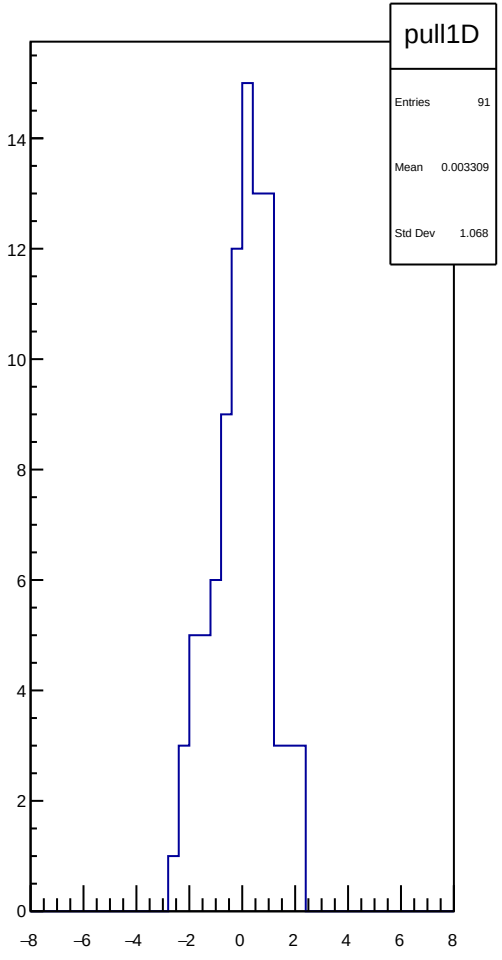

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.907e+05 / 90
p0 1.688e−10 ± 1.505e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

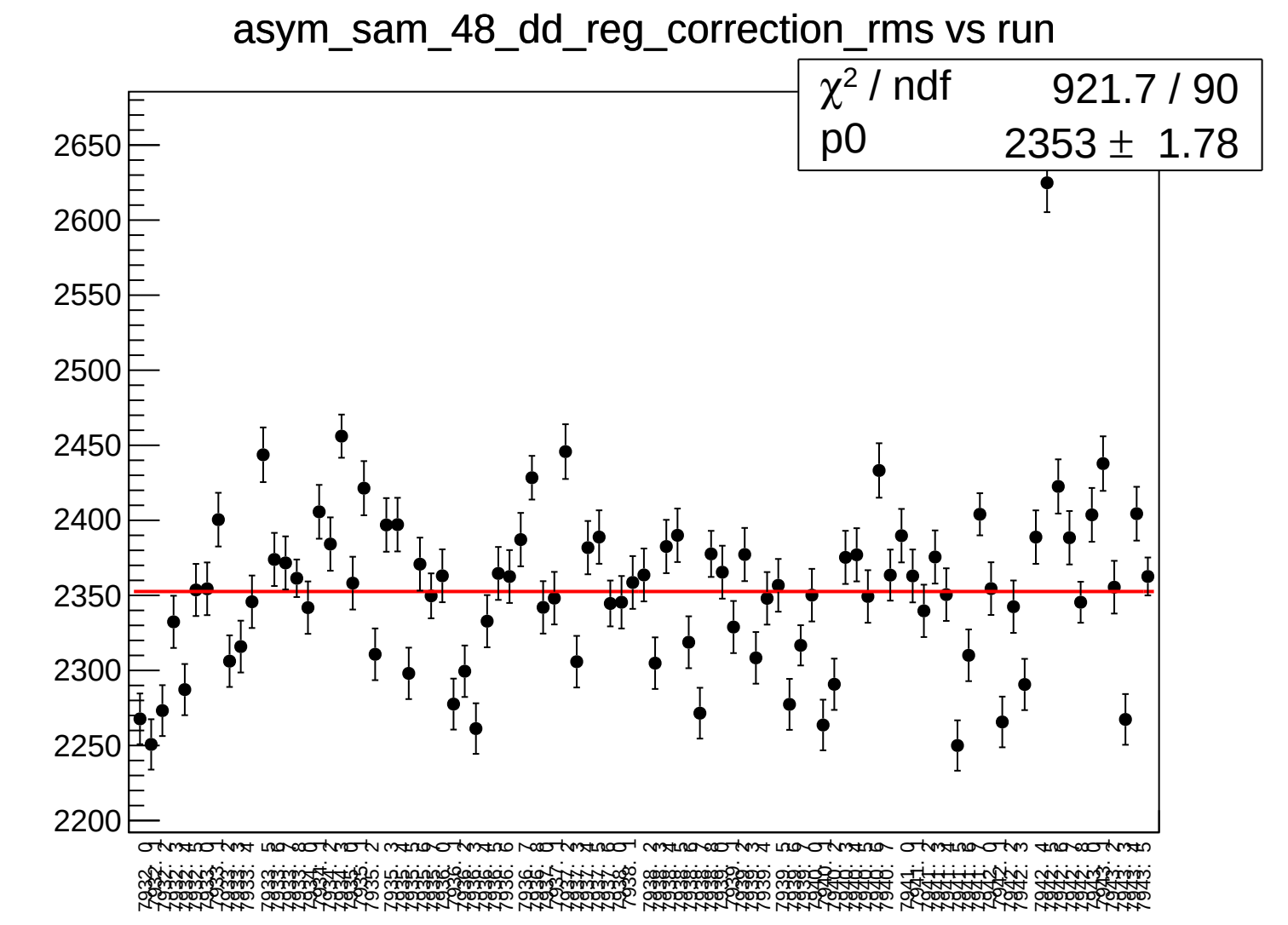

reg_asym_sam_48_dd_mean vs run
χ² / ndf 108.1 / 90
p0 403.6 ± 193.1
pull
Entries 91
Mean 114.7
Std Dev 0

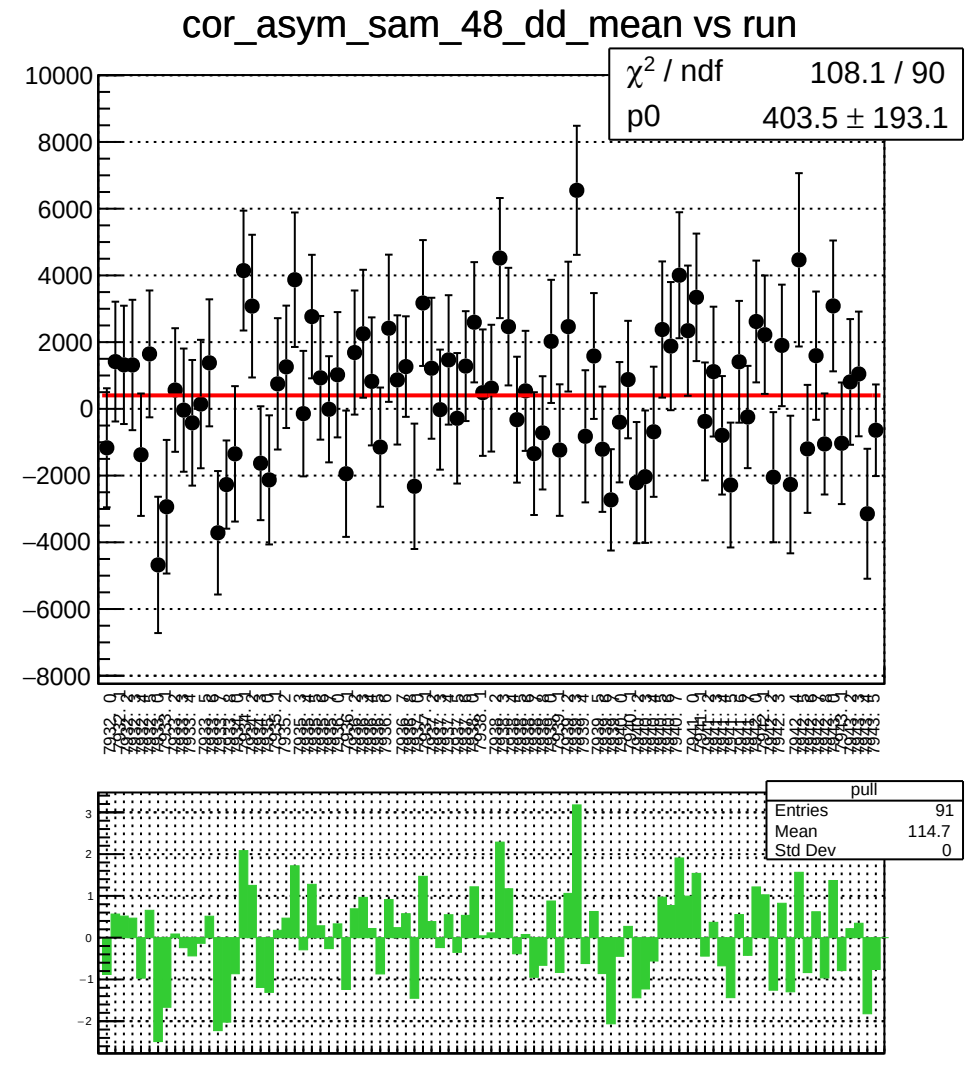

pull1D
Entries 91
Mean 0.02463
Std Dev 1.09

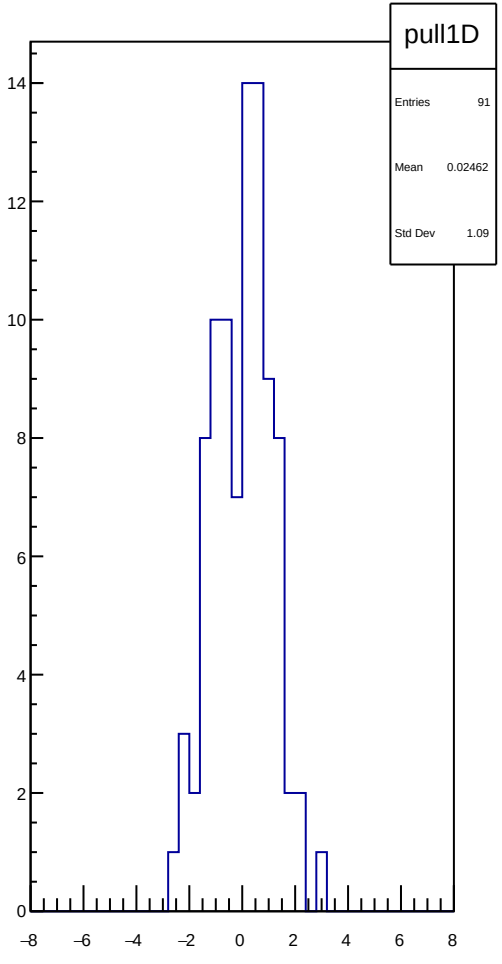

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4854 / 90
p0 180.3 ± 0.1365
250
240
230
220
210
200
190
180
170
160

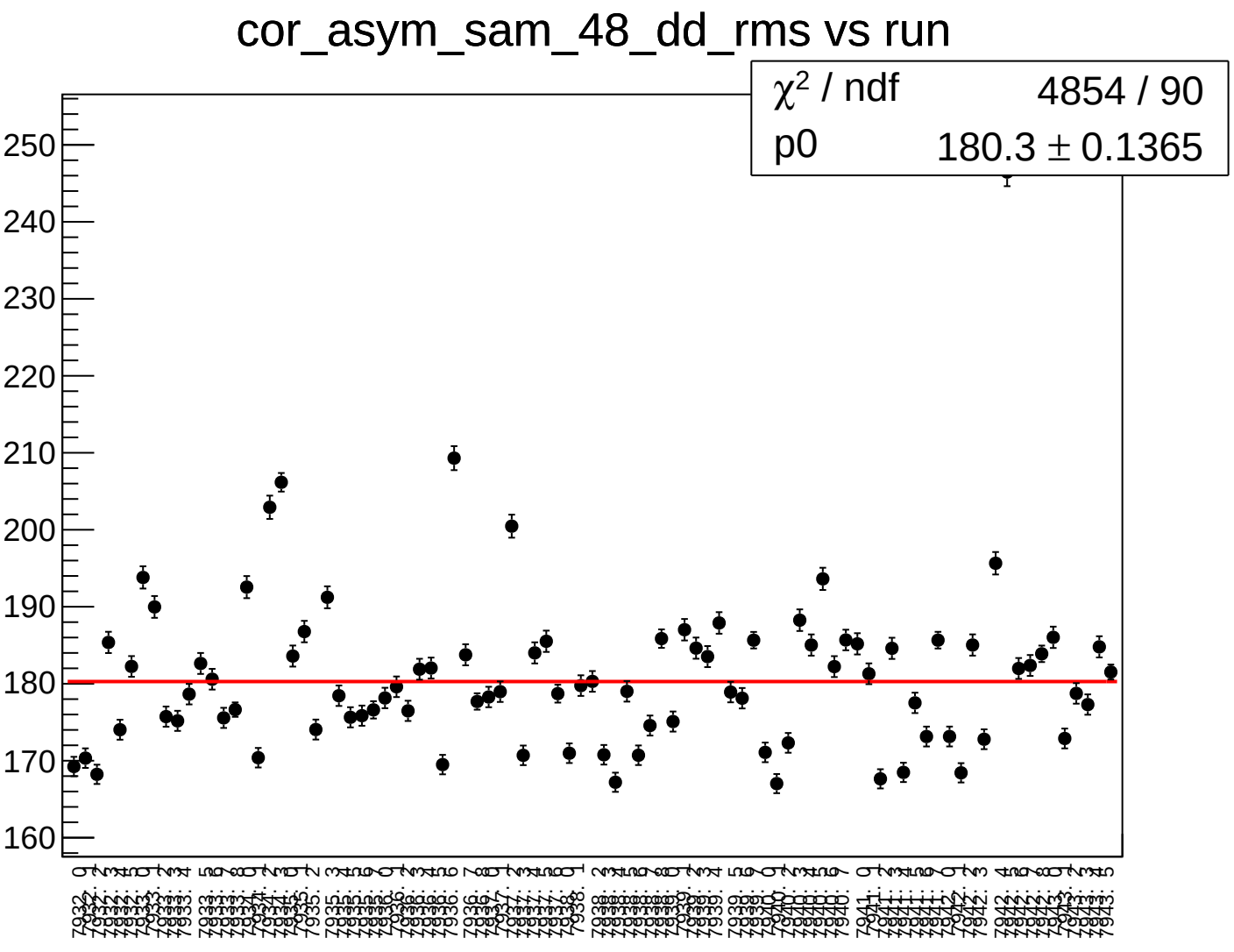

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 103.7 / 90
p0 −943.5 ± 2517
×10³
pull
Entries 91
Mean 63.37
Std Dev 57.23

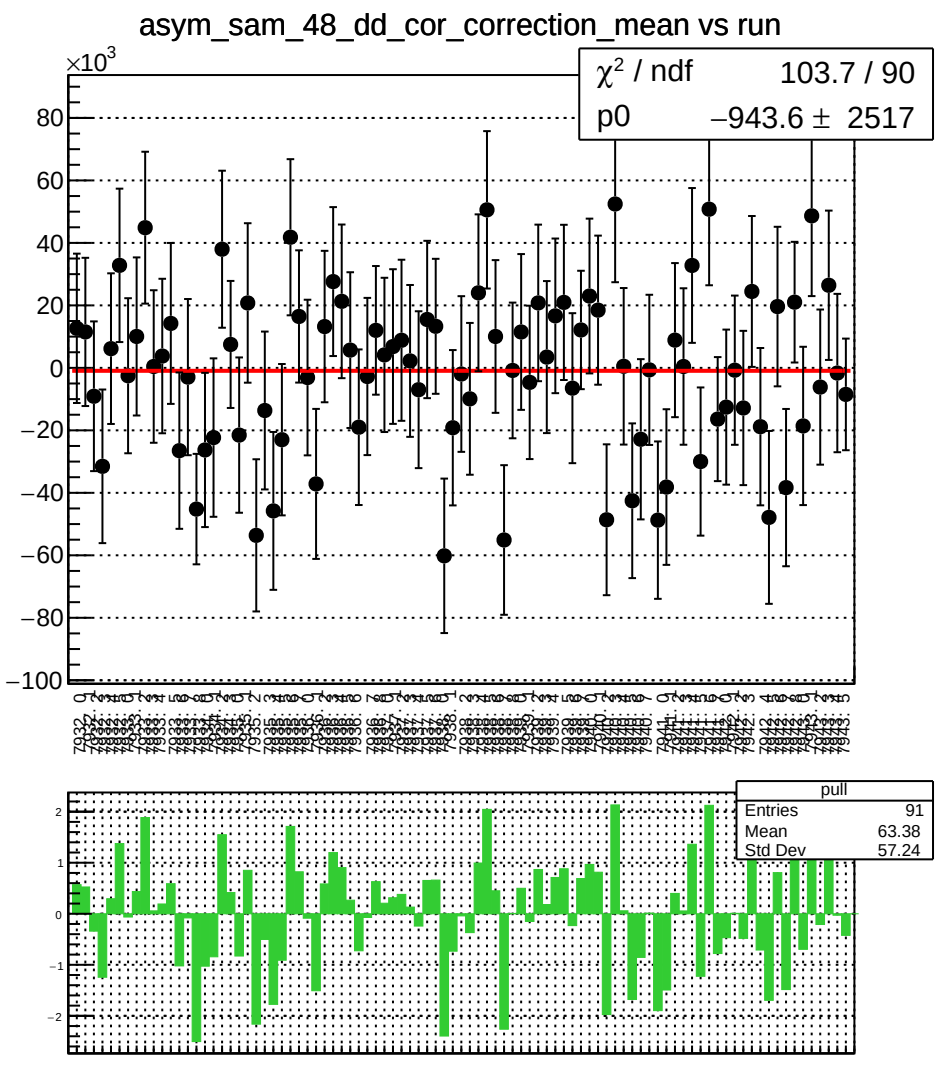

pull1D
Entries 91
Mean 0.003309
Std Dev 1.068

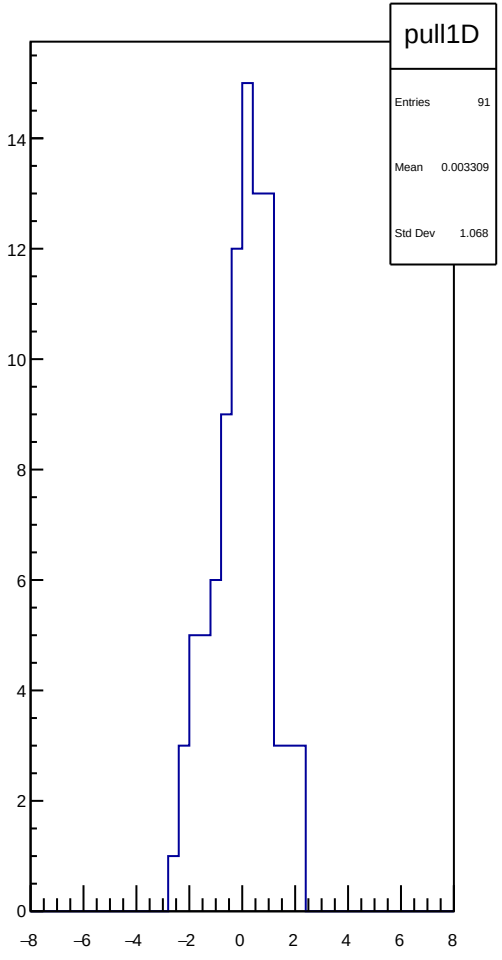

asym_sam_48_dd_reg_correction_rms vs run
χ^2 / ndf 921.7 / 90
p0 2353 ± 1.78
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

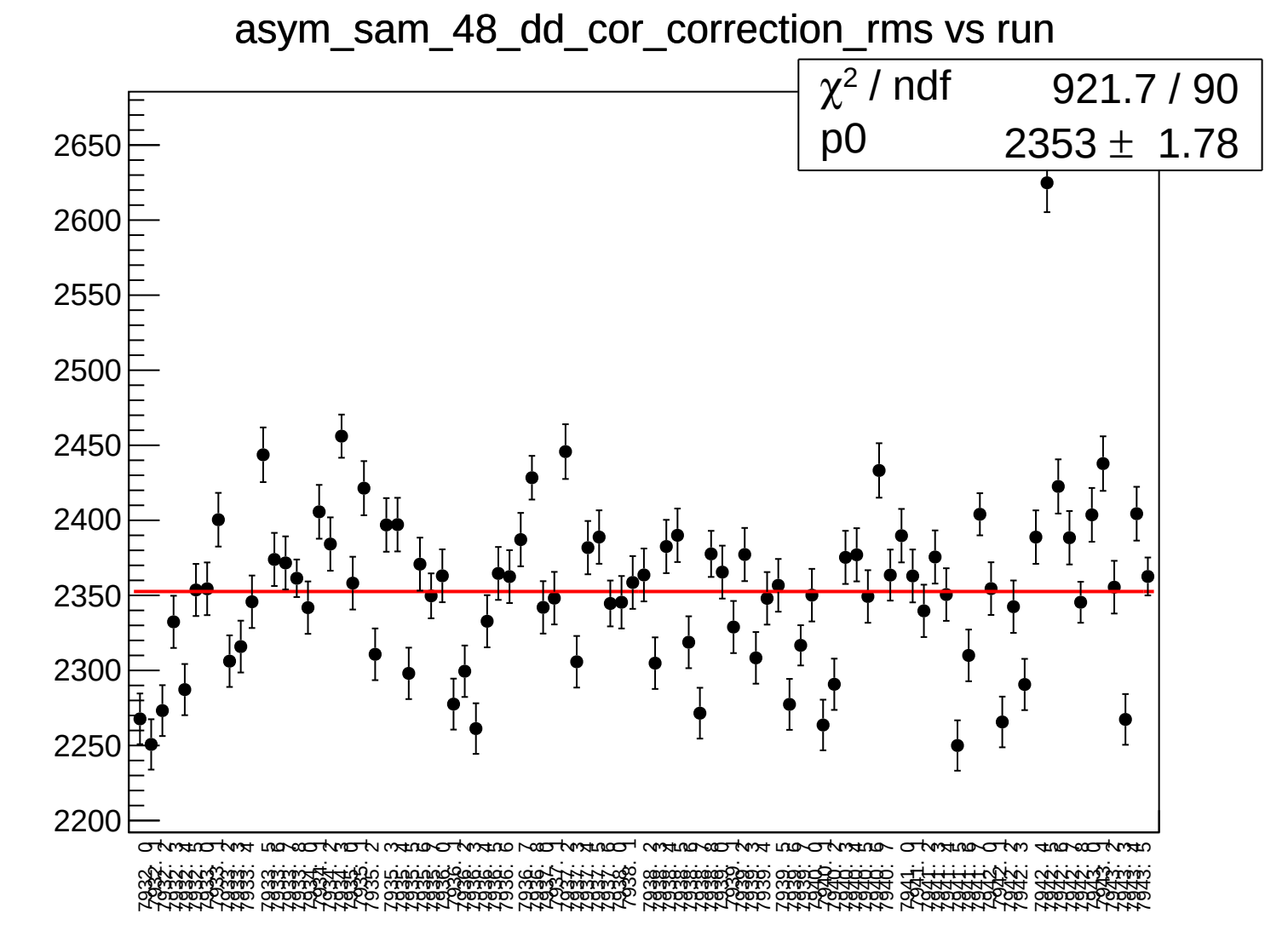

cor_asym_sam_48_dd_mean vs run
χ² / ndf 108.1 / 90
p0 403.5 ± 193.1
pull
Entries 91
Mean 114.7
Std Dev 0

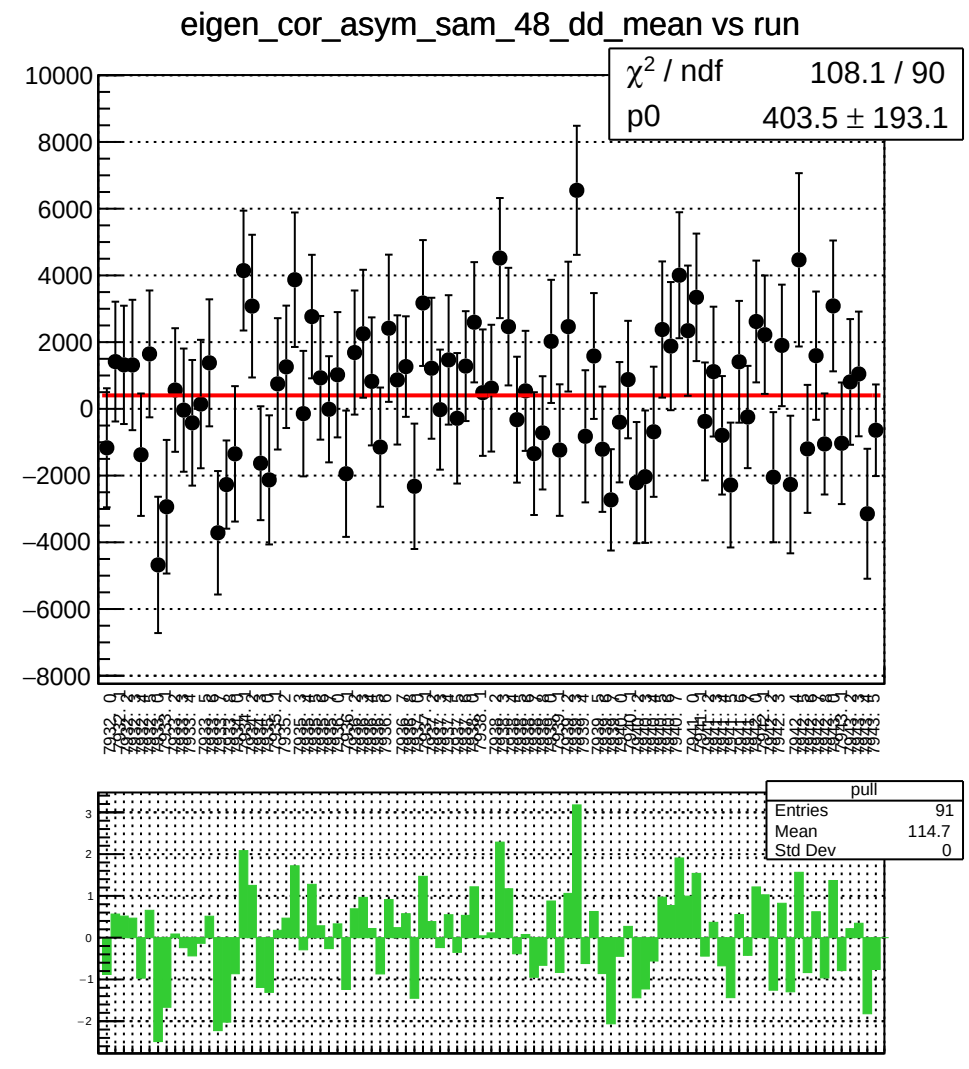

pull1D
Entries 91
Mean 0.02462
Std Dev 1.09

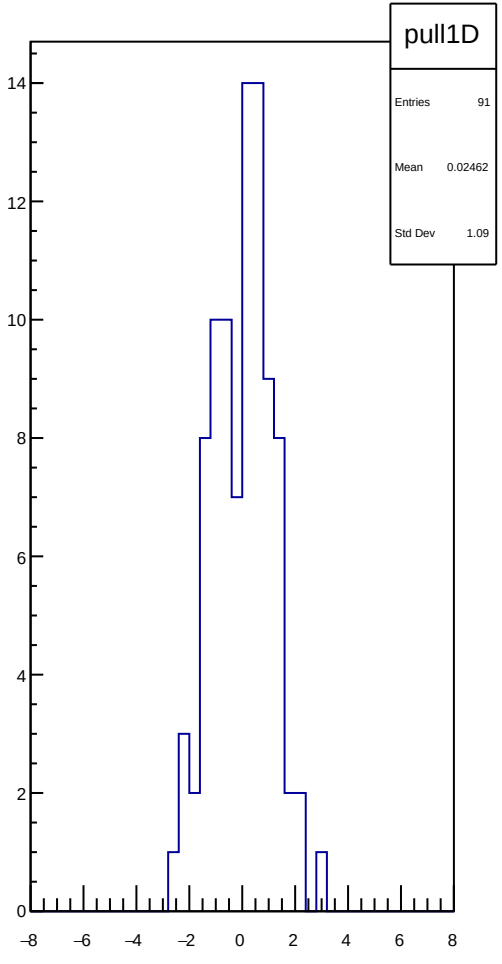

cor_asym_sam_48_dd_rms vs run
χ² / ndf 4854 / 90
p0 180.3 ± 0.1365
250
240
230
220
210
200
190
180
170
160

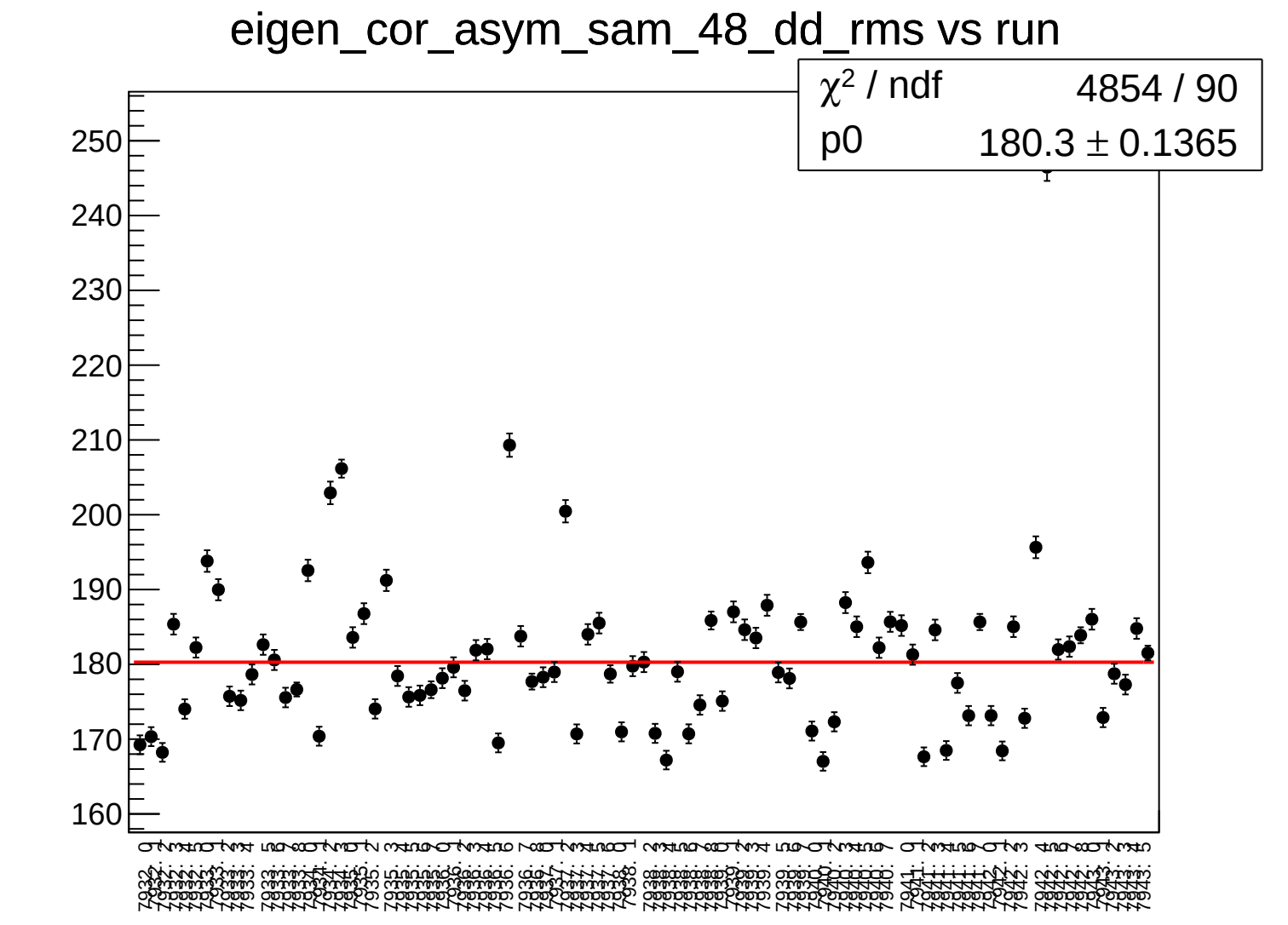

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 103.7 / 90
p0 −943.6 ± 2517
×10³
pull
Entries 91
Mean 63.38
Std Dev 57.24

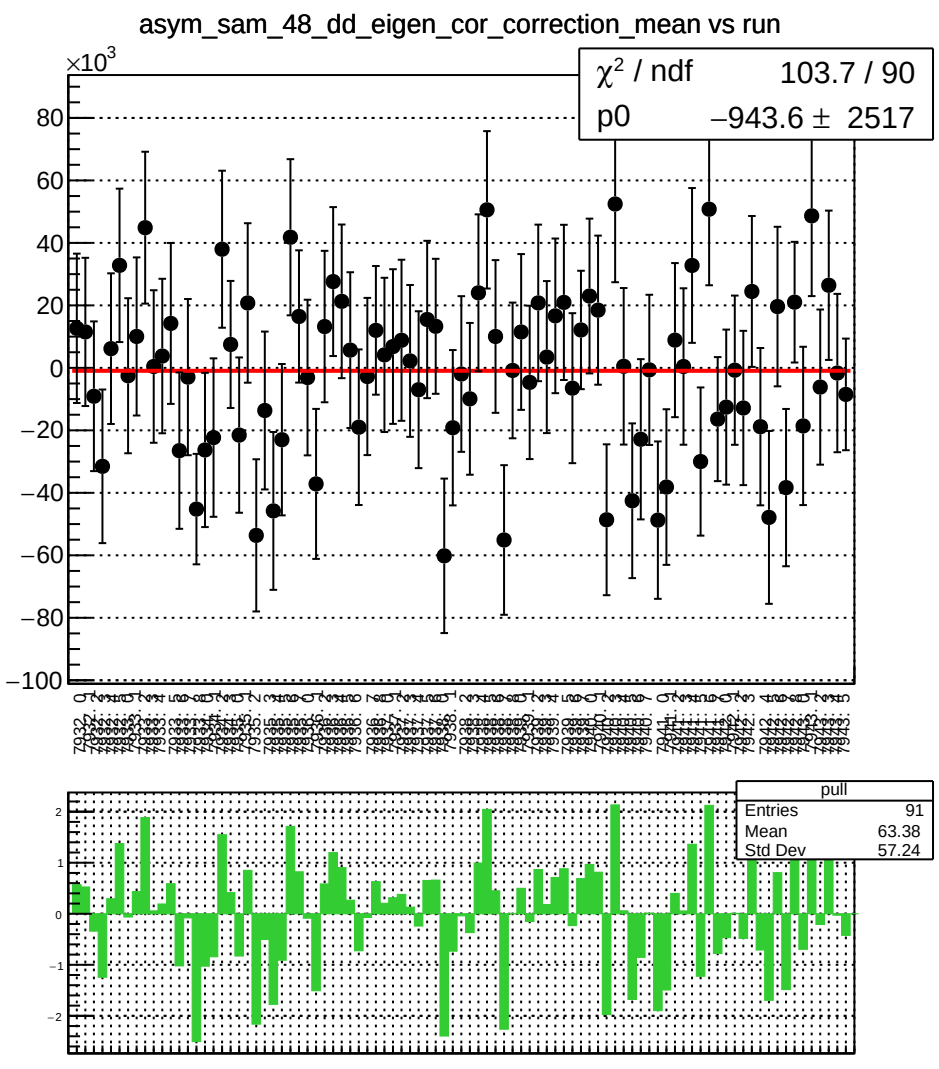

pull1D
Entries 91
Mean 0.003309
Std Dev 1.068

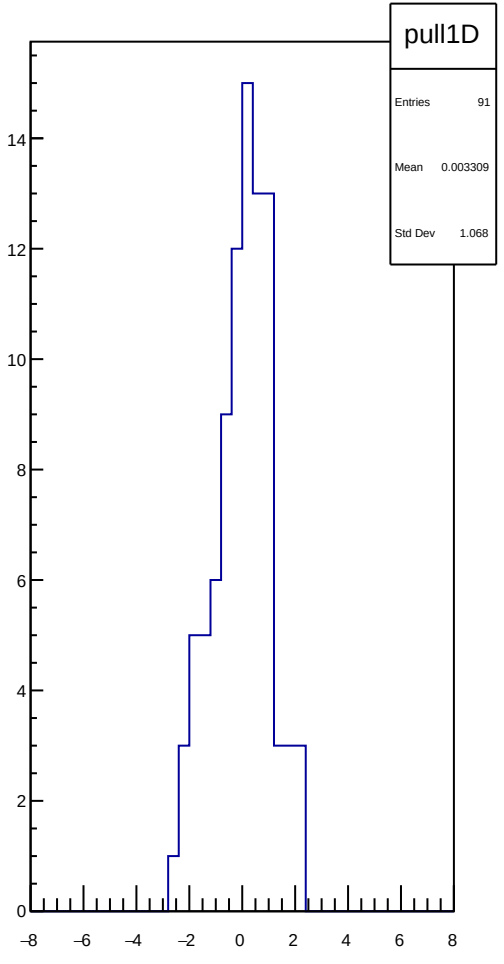

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 921.7 / 90
p0 2353 ± 1.78
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

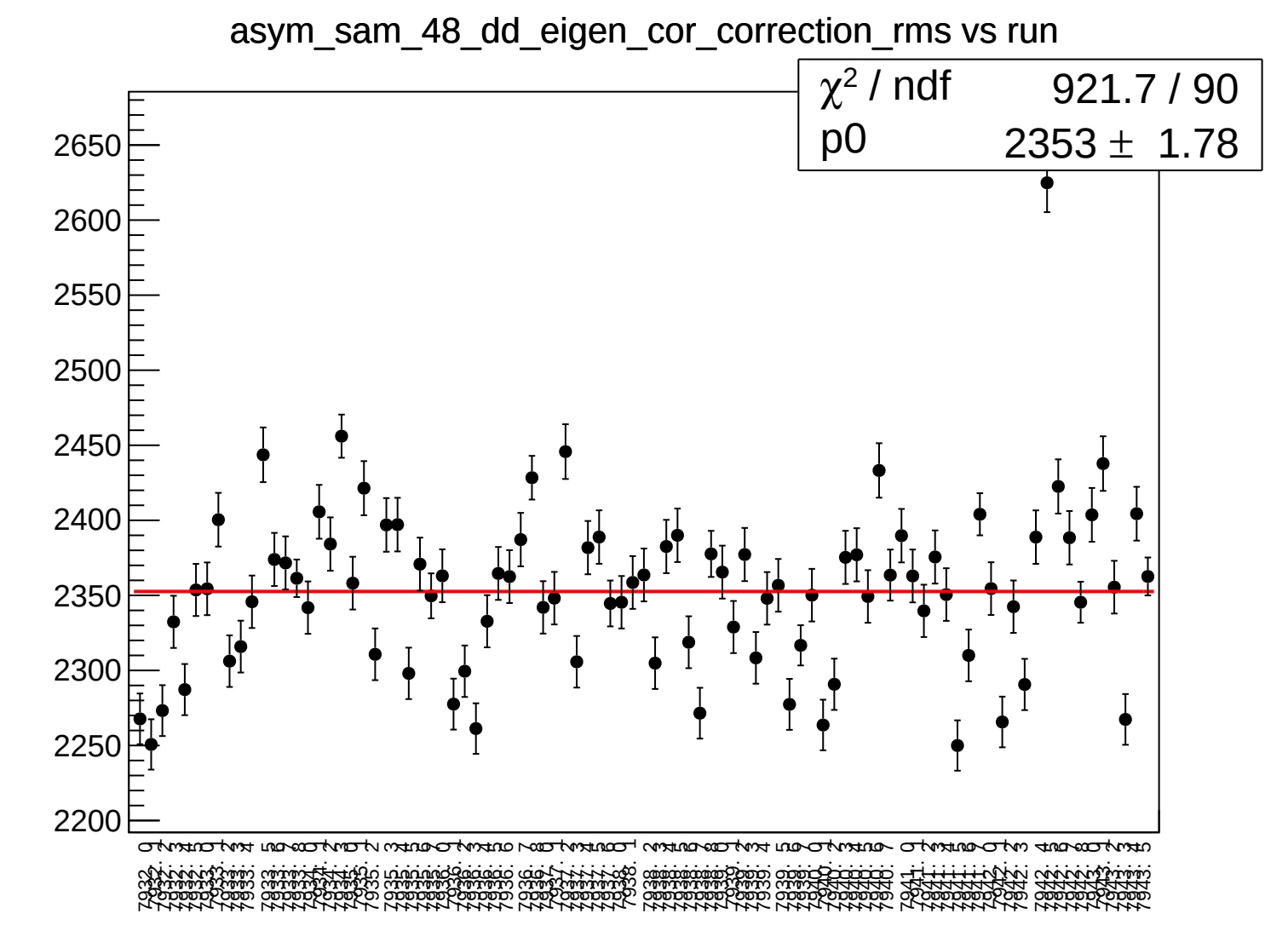

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 108.1 / 90
p0 403.5 ± 193.1
pull
Entries 91
Mean 114.7
Std Dev 0

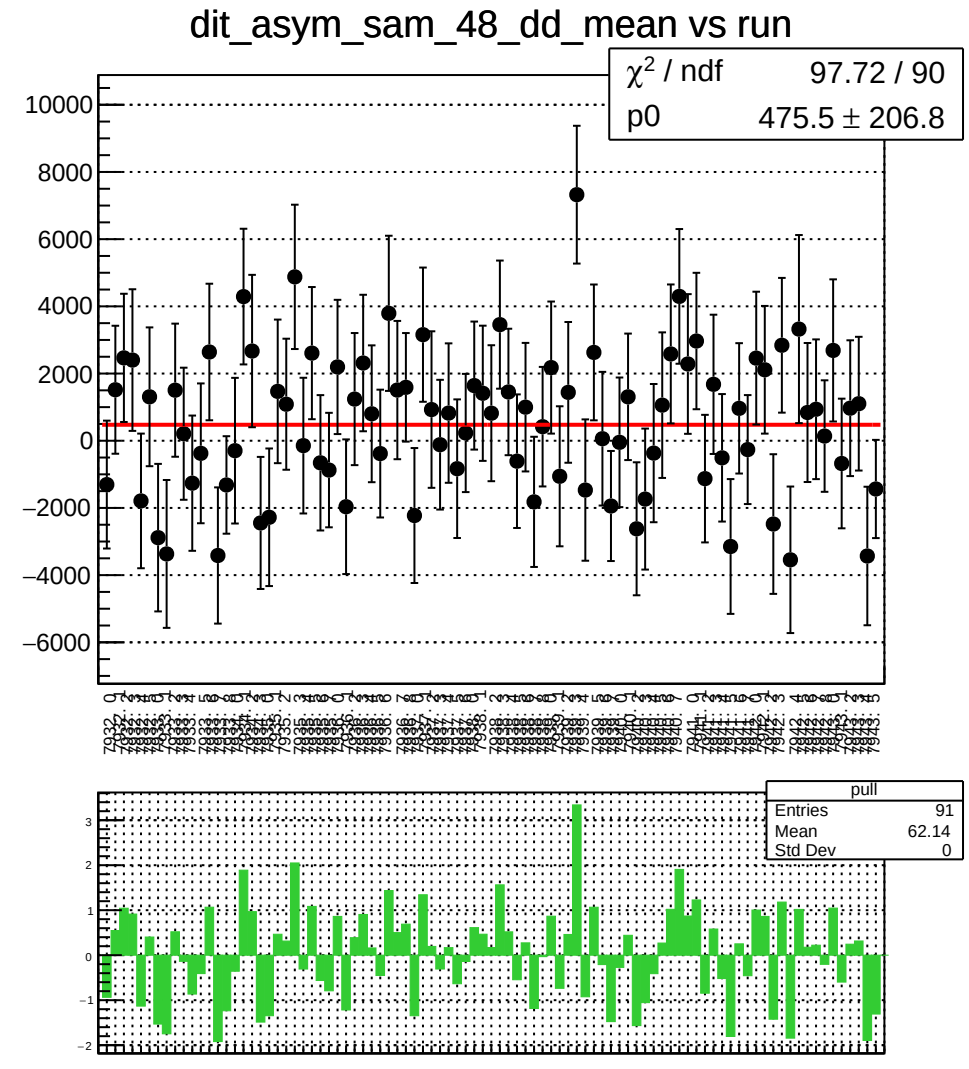

pull1D
Entries 91
Mean 0.02462
Std Dev 1.09

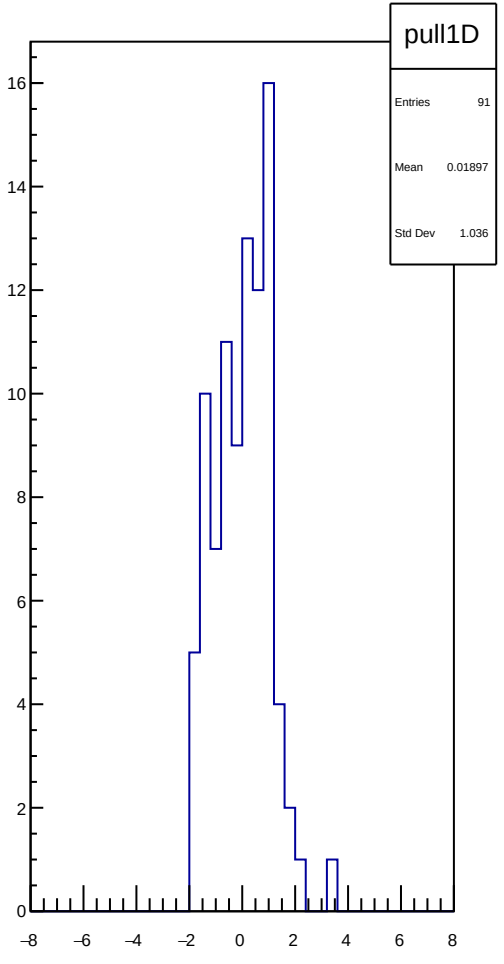

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 4854 / 90
p0 180.3 ± 0.1365
250
240
230
220
210
200
190
180
170
160

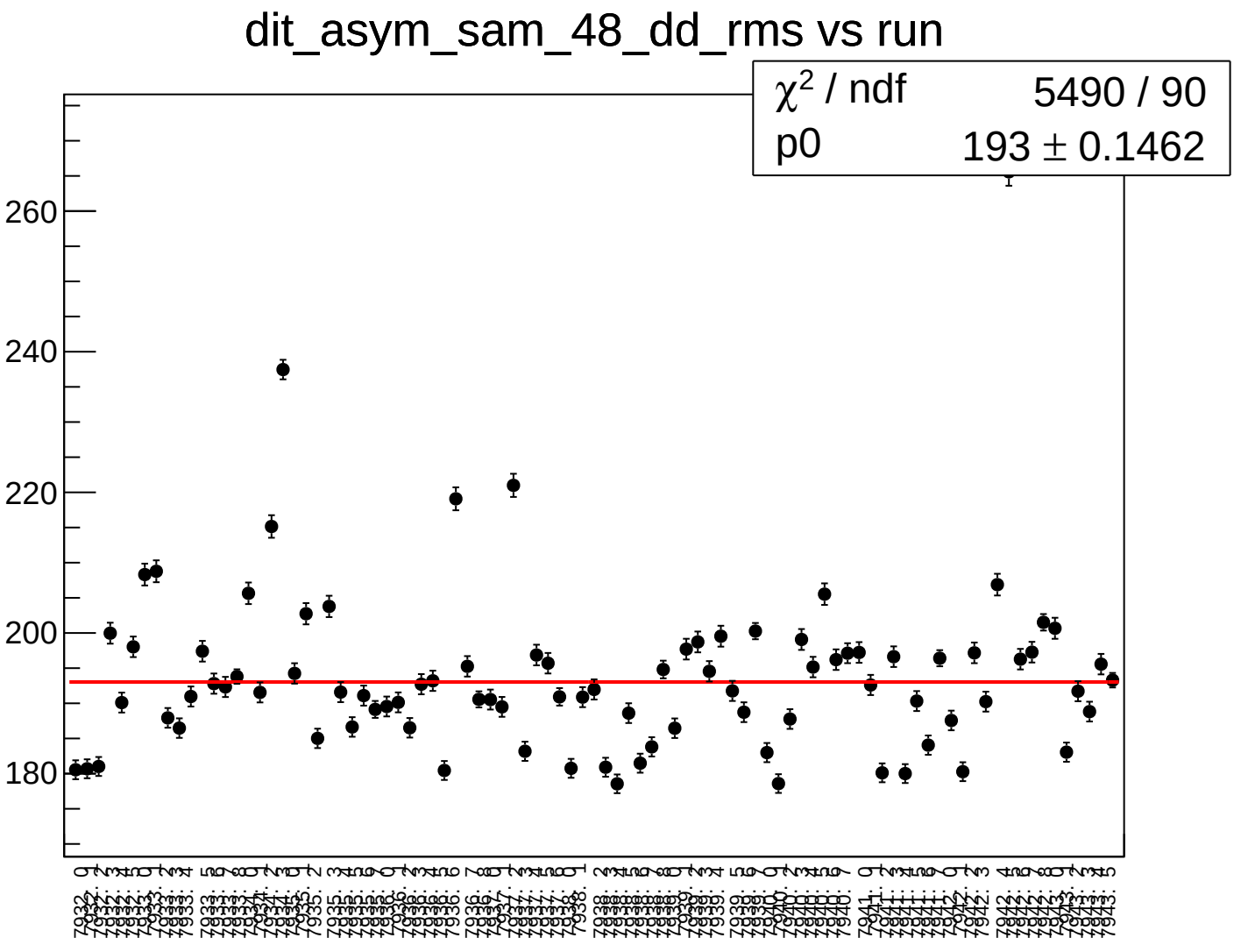

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.7 / 90
p0 −943.6 ± 2517
pull
Entries 91
Mean 63.38
Std Dev 57.24

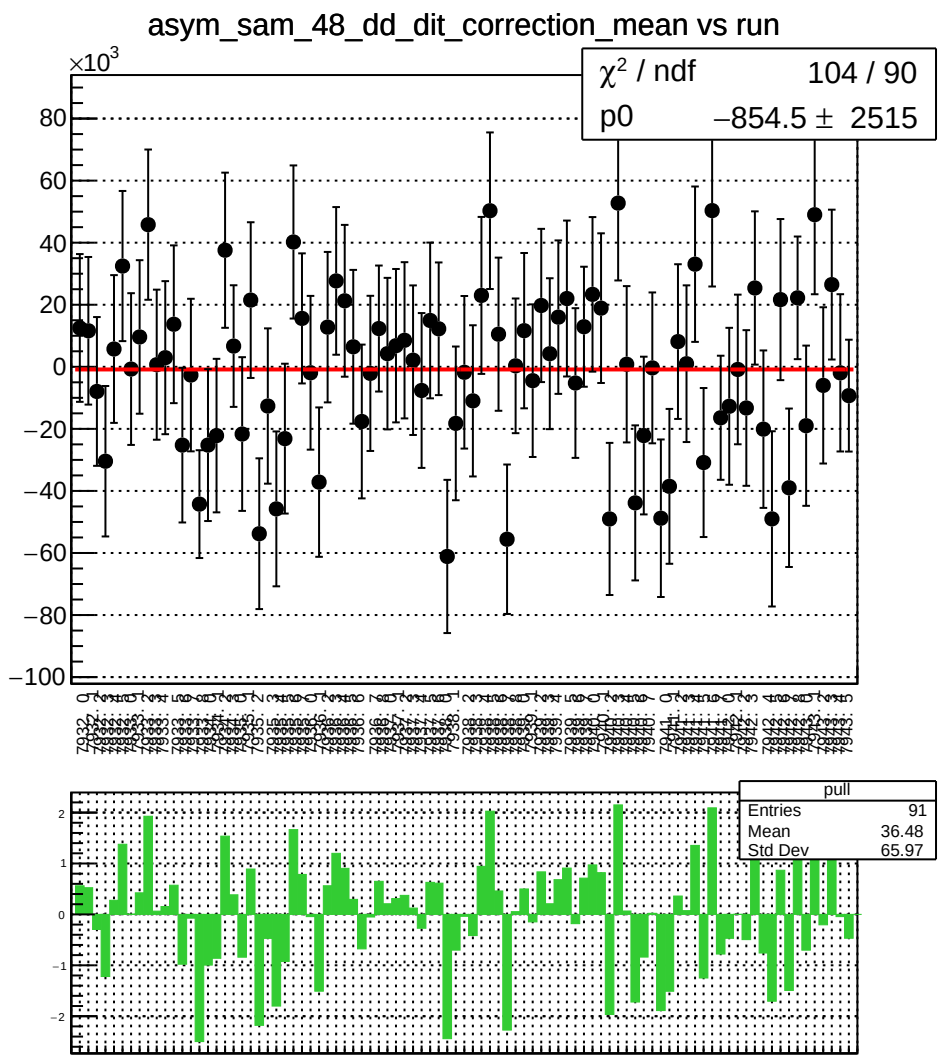

pull1D
Entries 91
Mean 0.003309
Std Dev 1.068

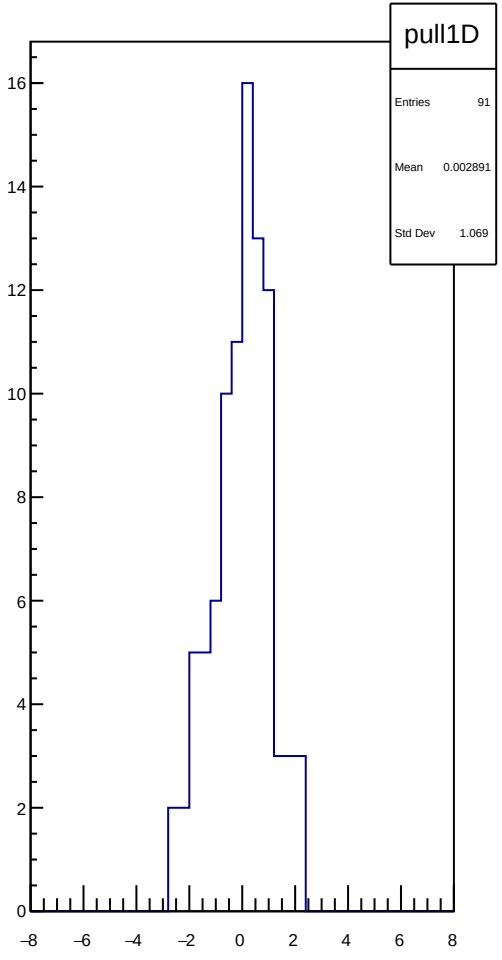

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 921.7 / 90
p0 2353 ± 1.78
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

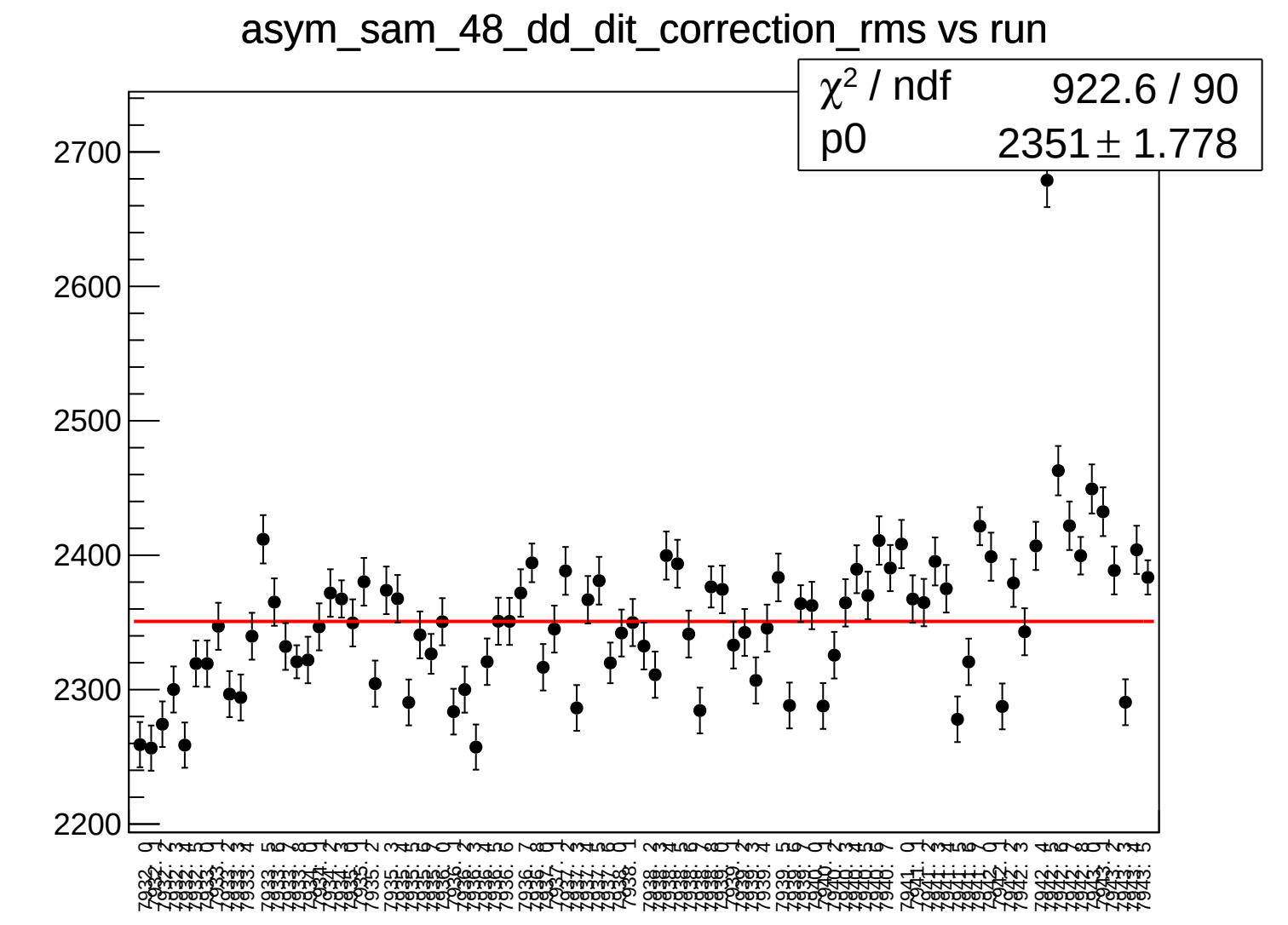

dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 97.72 / 90
p0 475.5 ± 206.8
pull
Entries 91
Mean 62.14
Std Dev 0

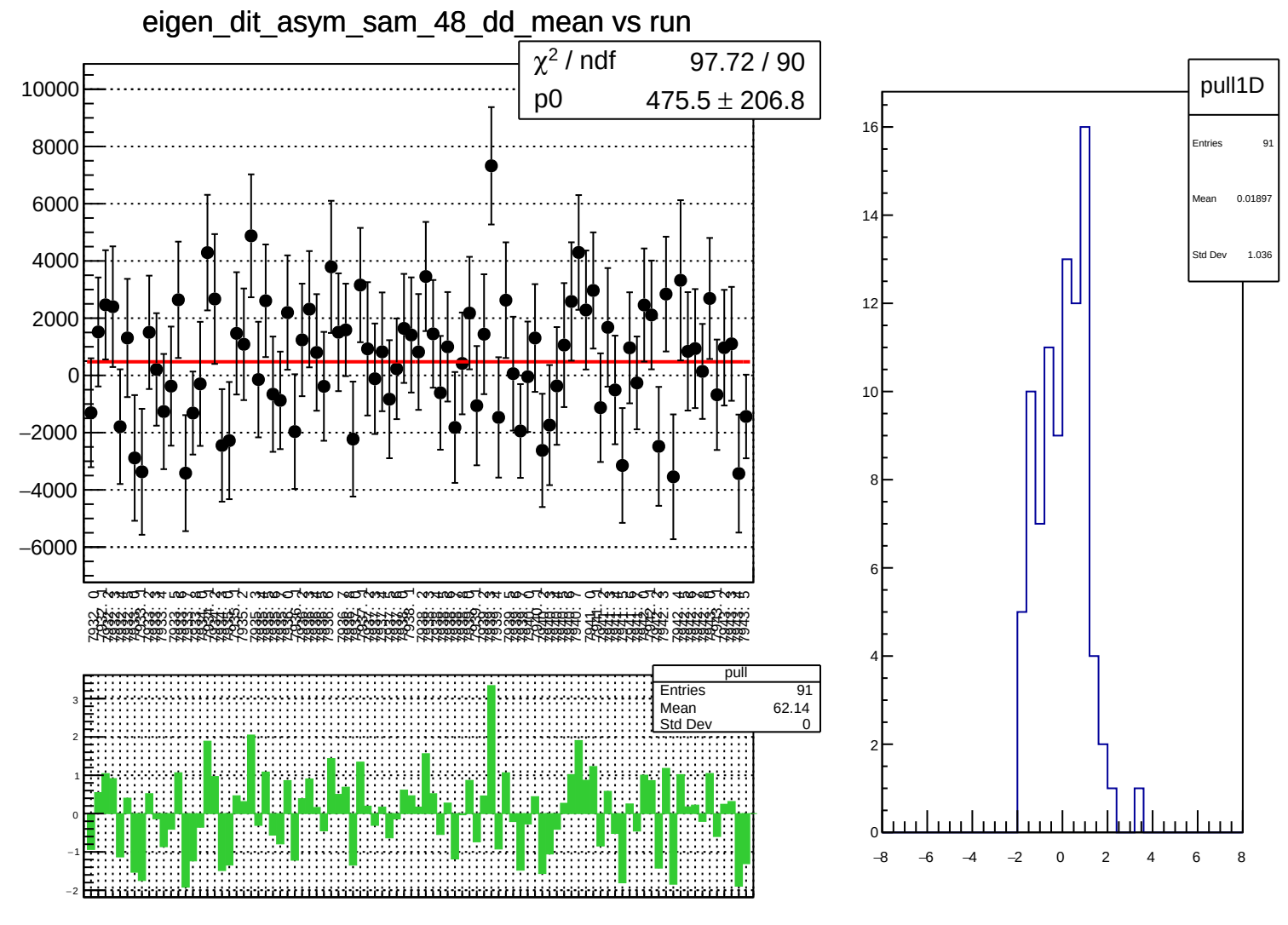

pull1D
Entries 91
Mean 0.01897
Std Dev 1.036

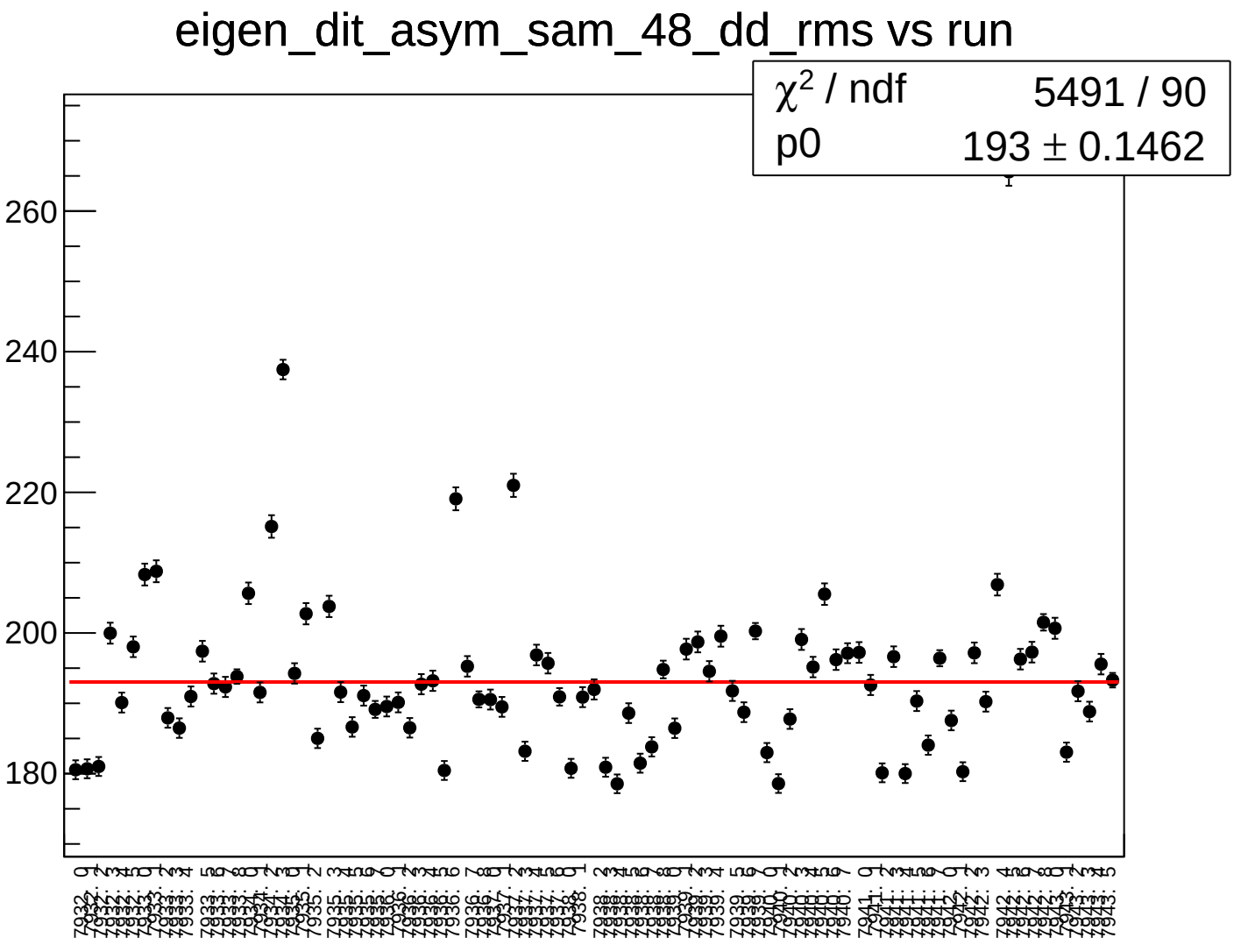

dit_asym_sam_48_dd_rms vs run
χ² / ndf 5490 / 90
p0 193 ± 0.1462
260
240
220
200
180

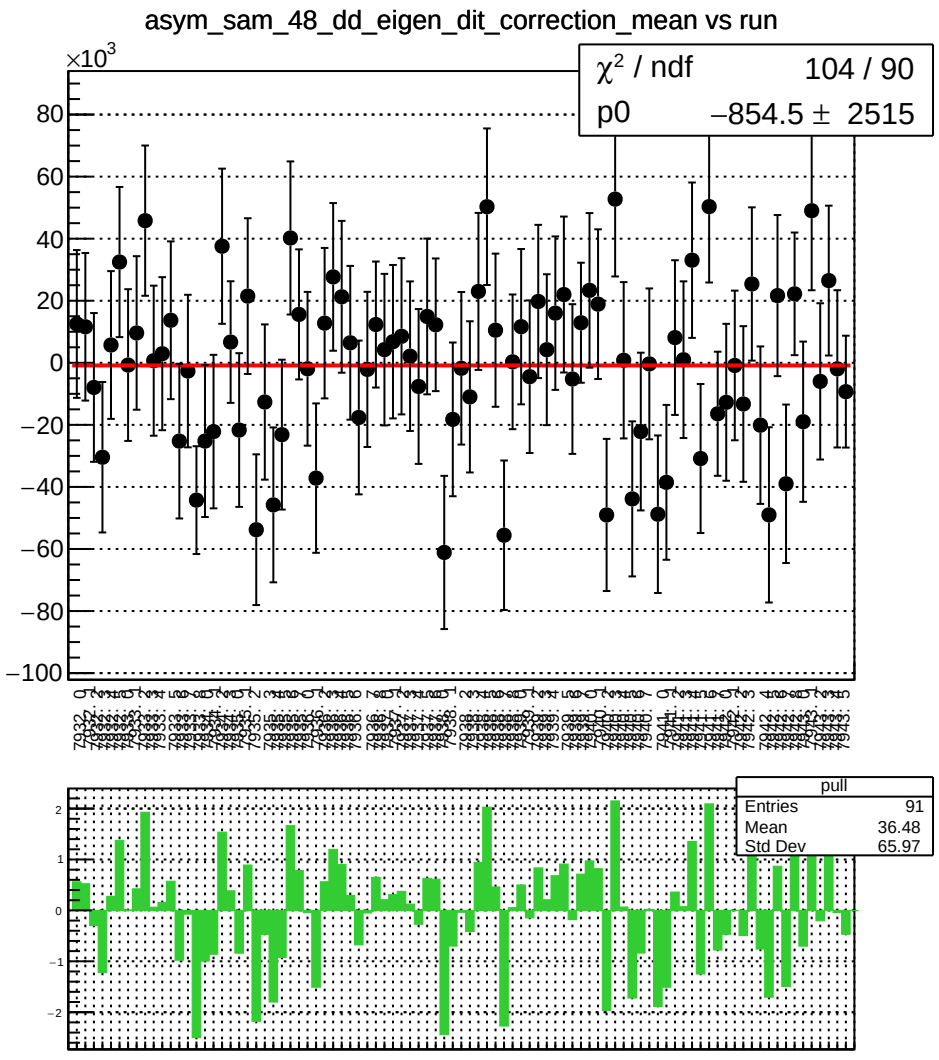

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 90
p0 −854.5 ± 2515
pull
Entries 91
Mean 36.48
Std Dev 65.97

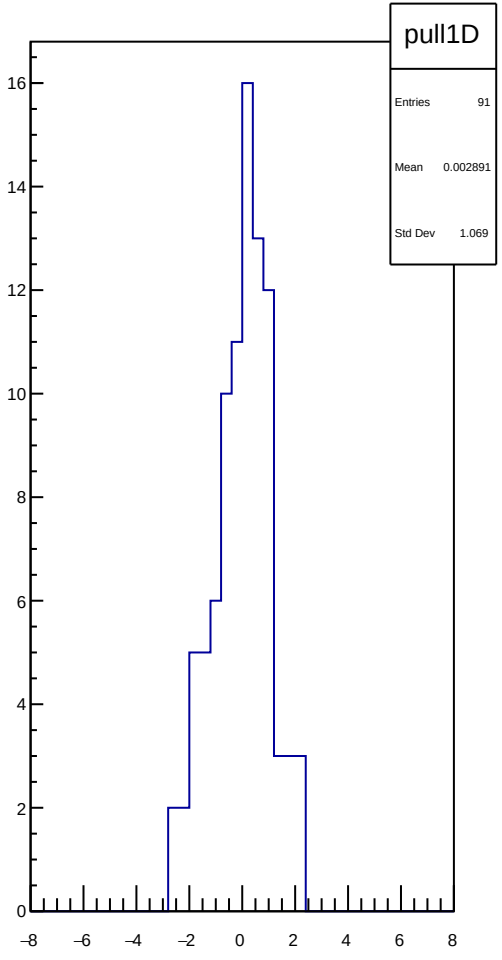

pull1D
Entries 91
Mean 0.002891
Std Dev 1.069

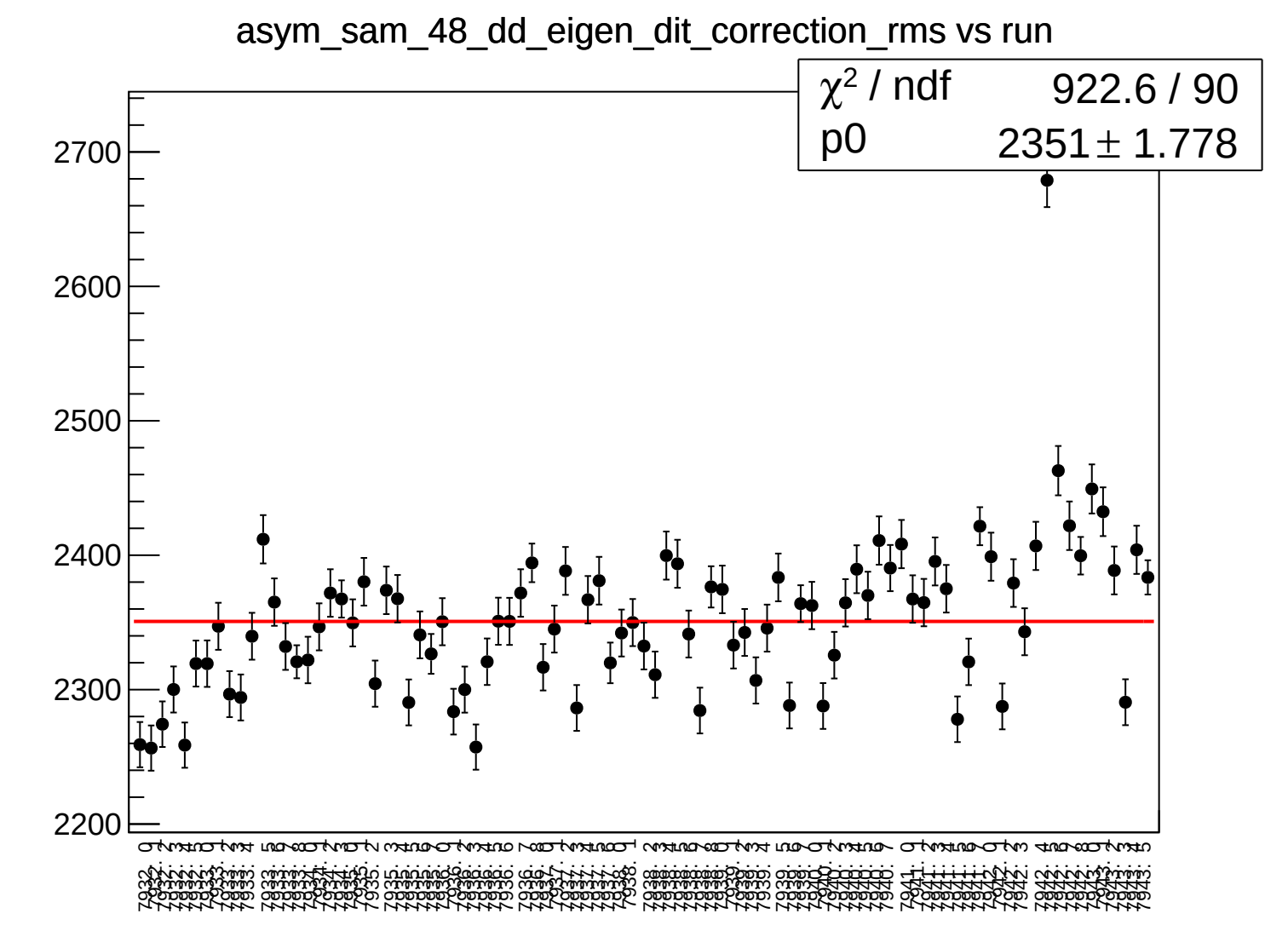

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 922.6 / 90
p0 2351 ± 1.778
2700
2600
2500
2400
2300
2200

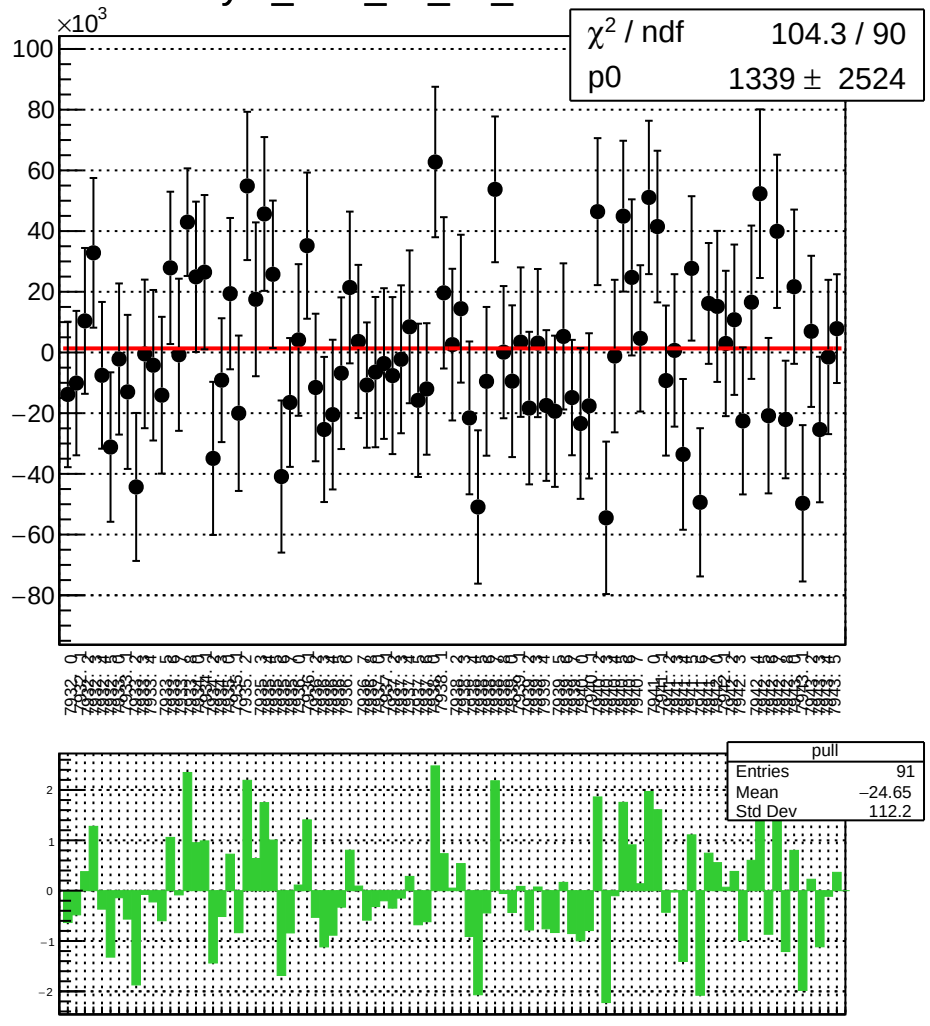

eigen_dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 97.72 / 90
p0 475.5 ± 206.8
pull
Entries 91
Mean 62.14
Std Dev 0
pull1D
Entries 91
Mean 0.01897
Std Dev 1.036

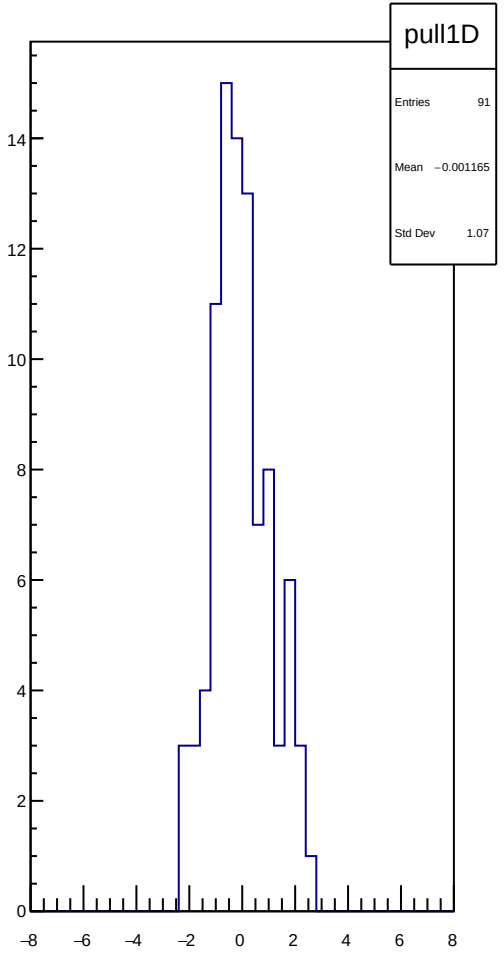

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 5491 / 90
p0 193 ± 0.1462
260
240
220
200
180

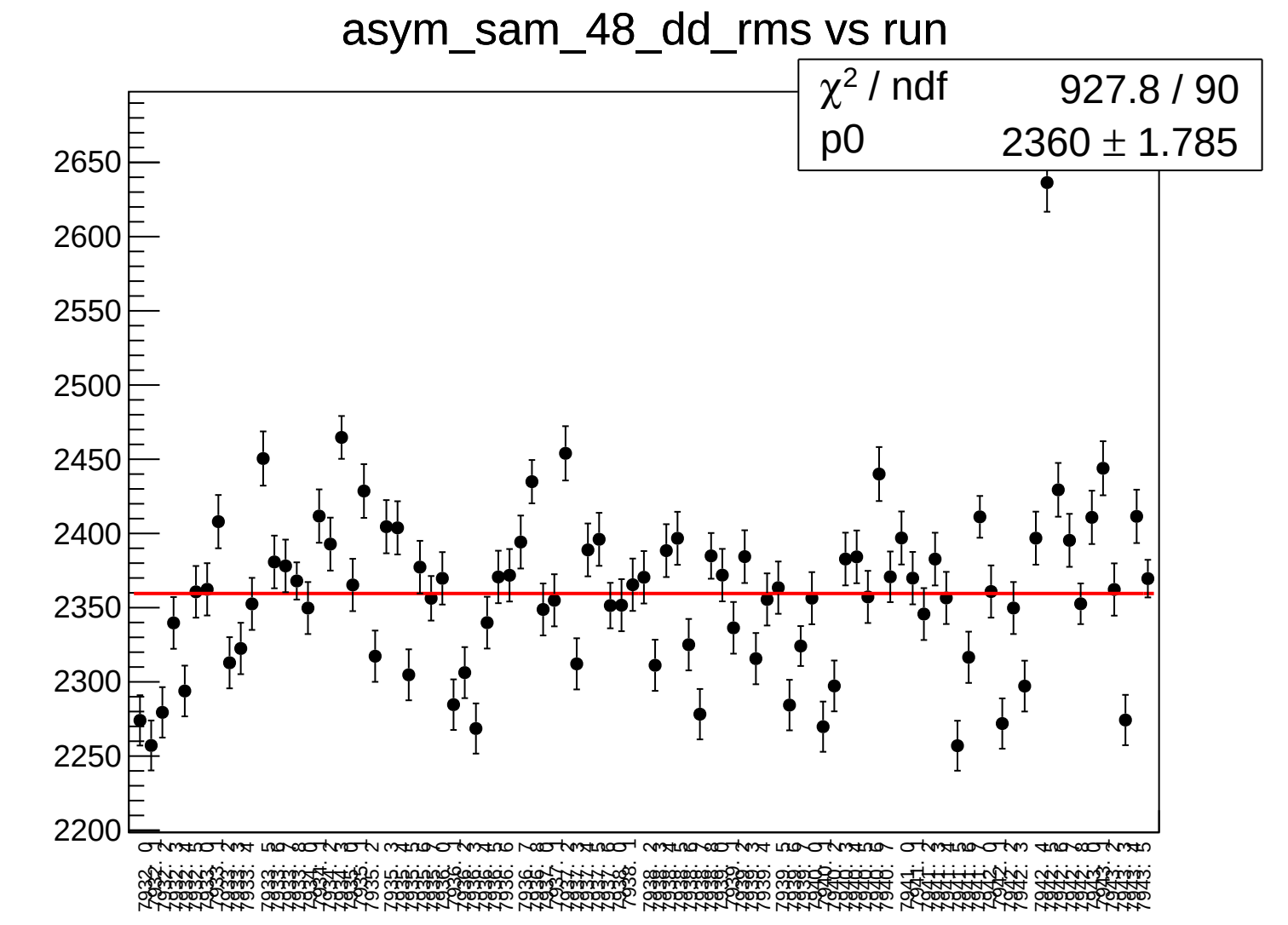

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 90
p0 −854.5 ± 2515
pull
Entries 91
Mean 36.48
Std Dev 65.97

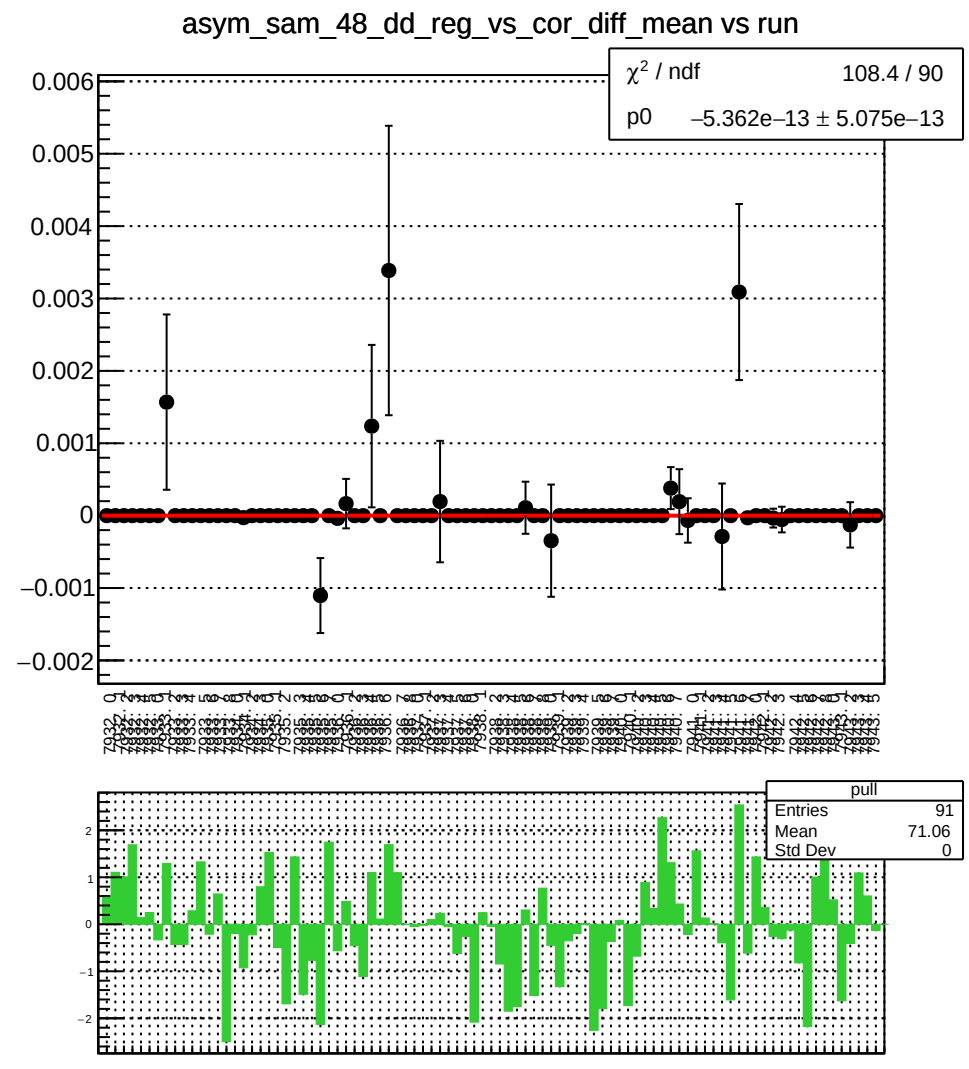

pull1D
Entries 91
Mean 0.002891
Std Dev 1.069

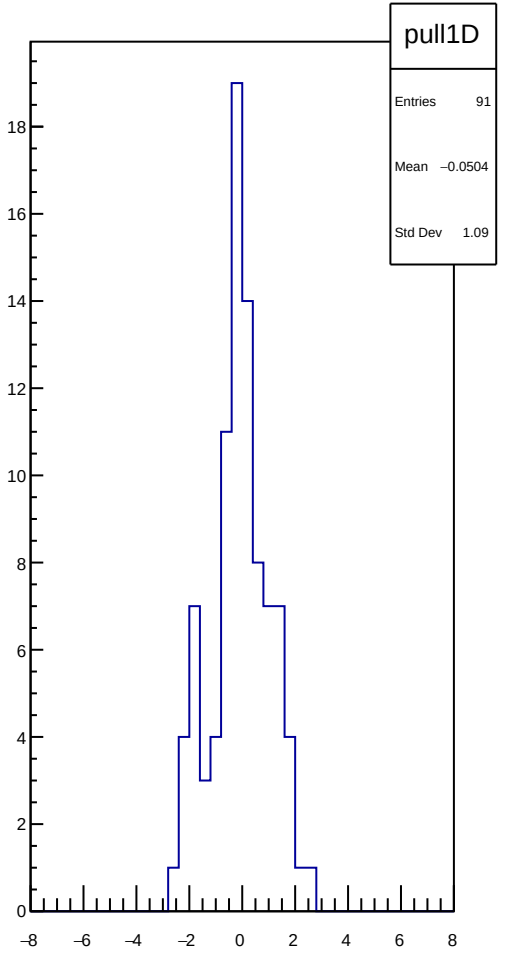

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 922.6 / 90
p0 2351 ± 1.778
2700
2600
2500
2400
2300
2200

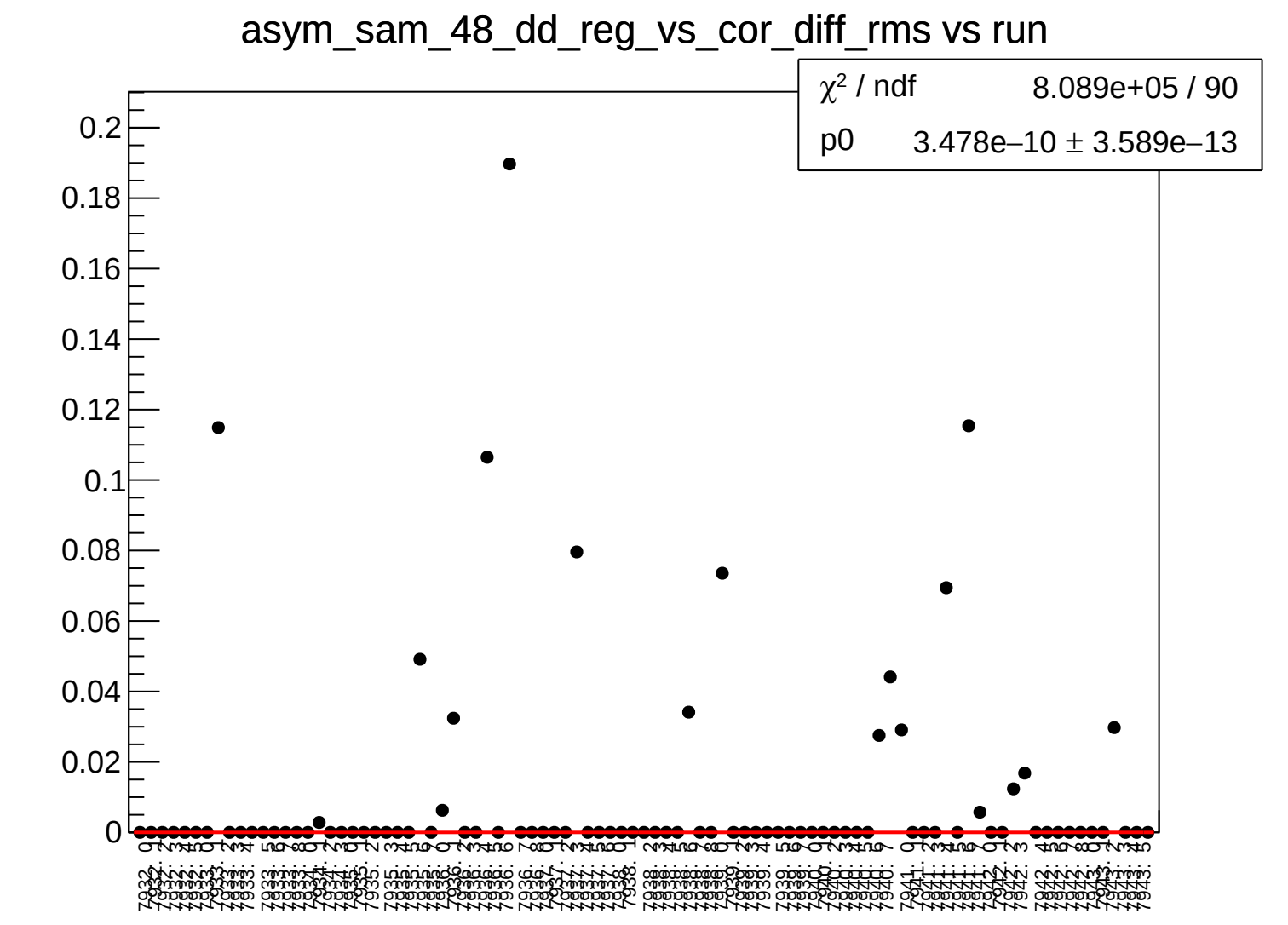

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 104.3 / 90
p0 1339 ± 2524
pull
Entries 91
Mean −24.65
Std Dev 112.2

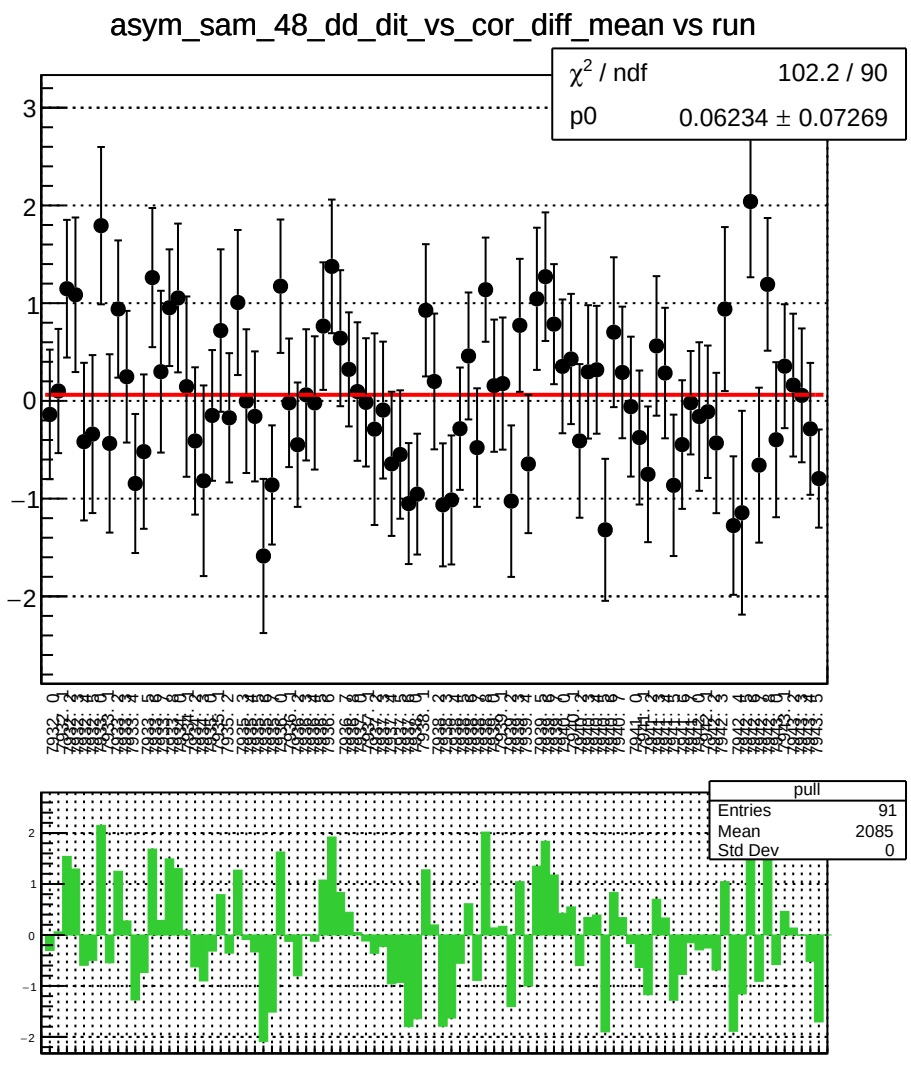

pull1D
Entries 91
Mean −0.001165
Std Dev 1.07

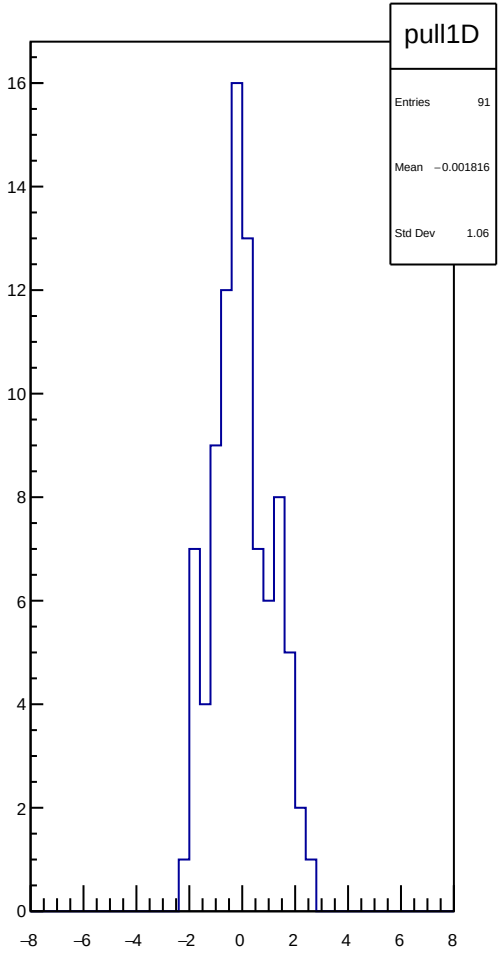

asym_sam_48_dd_rms vs run
χ^2 / ndf 927.8 / 90
p0 2360 ± 1.785
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

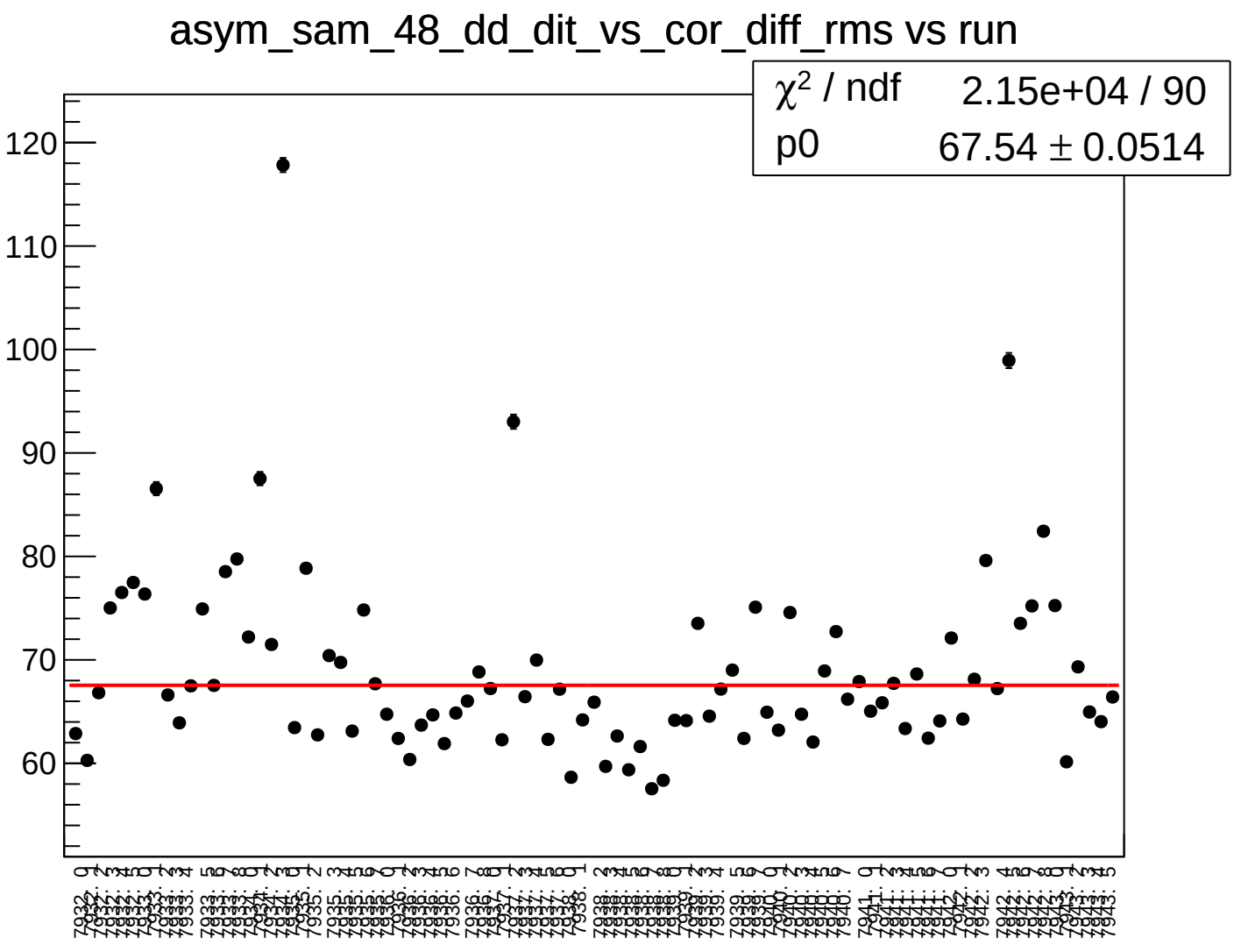

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 90
p0 −5.362e−13 ± 5.075e−13
0.006
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 71.06
Std Dev 0
2
1
0
−1
−2

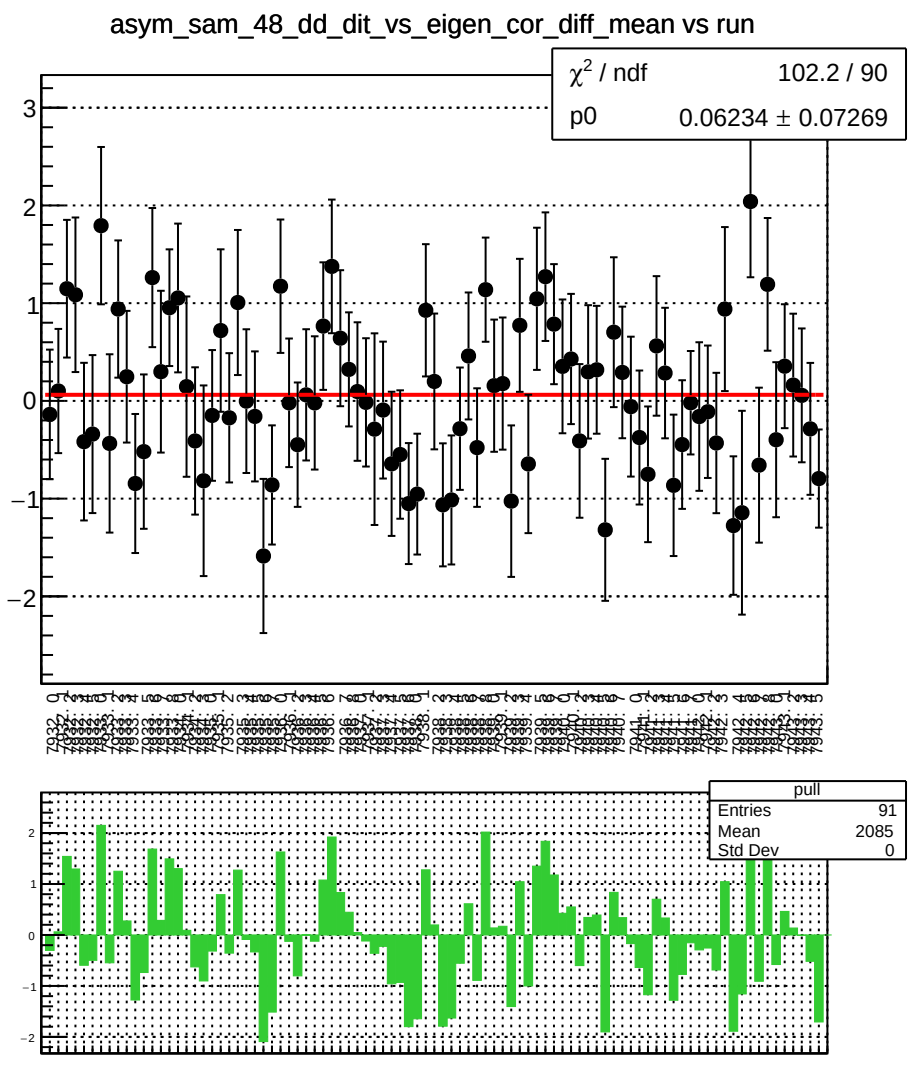

pull1D
Entries 91
Mean −0.0504
Std Dev 1.09
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

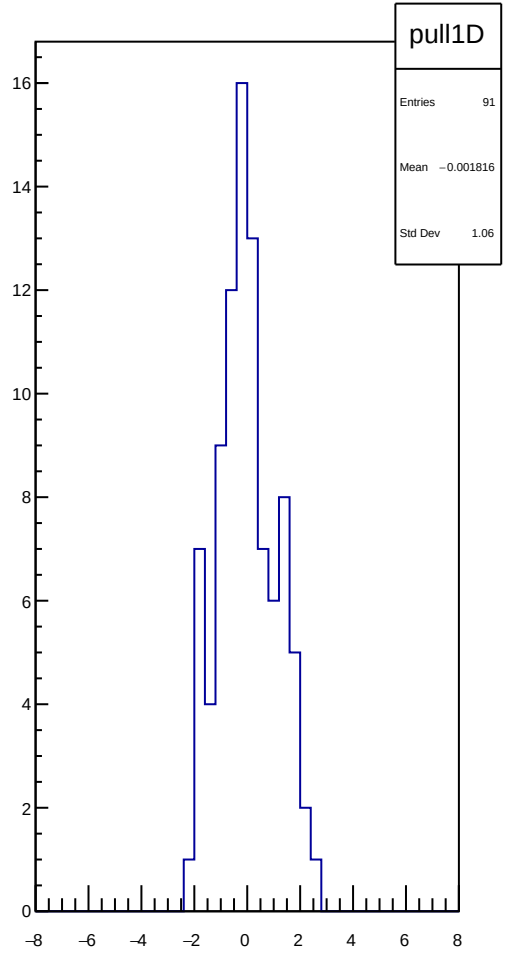

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.089e+05 / 90
p0 3.478e−10 ± 3.589e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

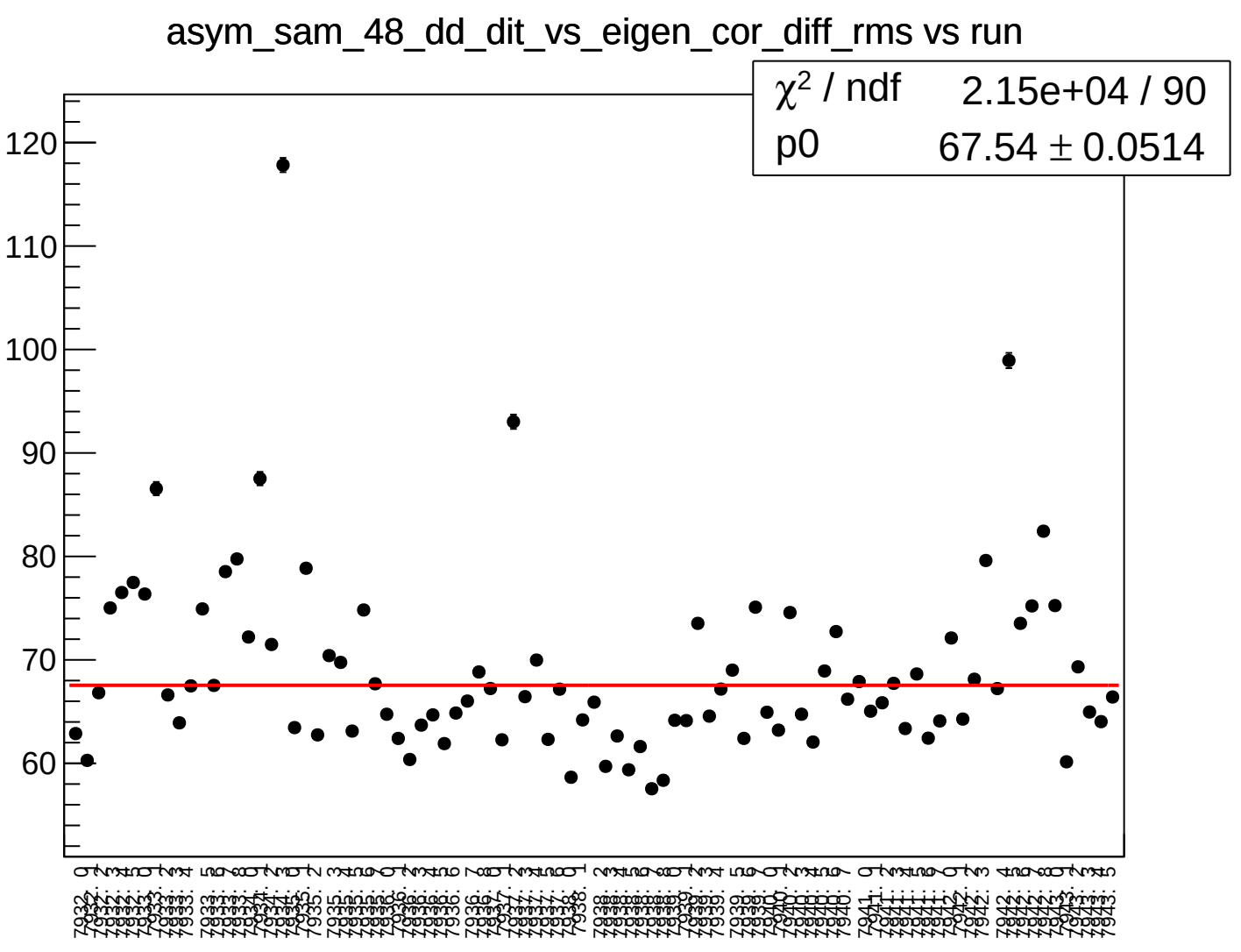

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 90
p0 0.06234 ± 0.07269
pull
Entries 91
Mean 2085
Std Dev 0

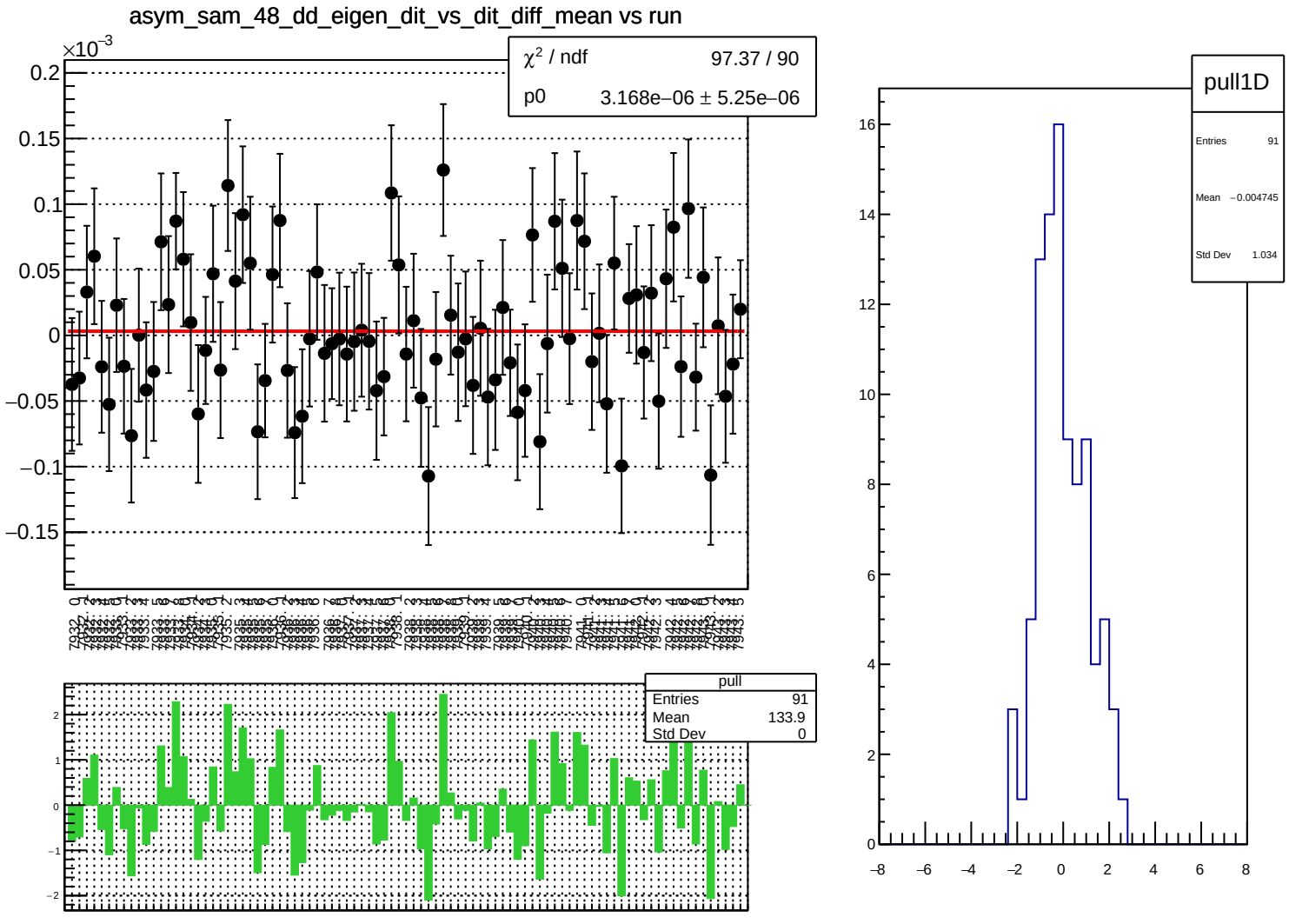

pull1D
Entries 91
Mean −0.001816
Std Dev 1.06

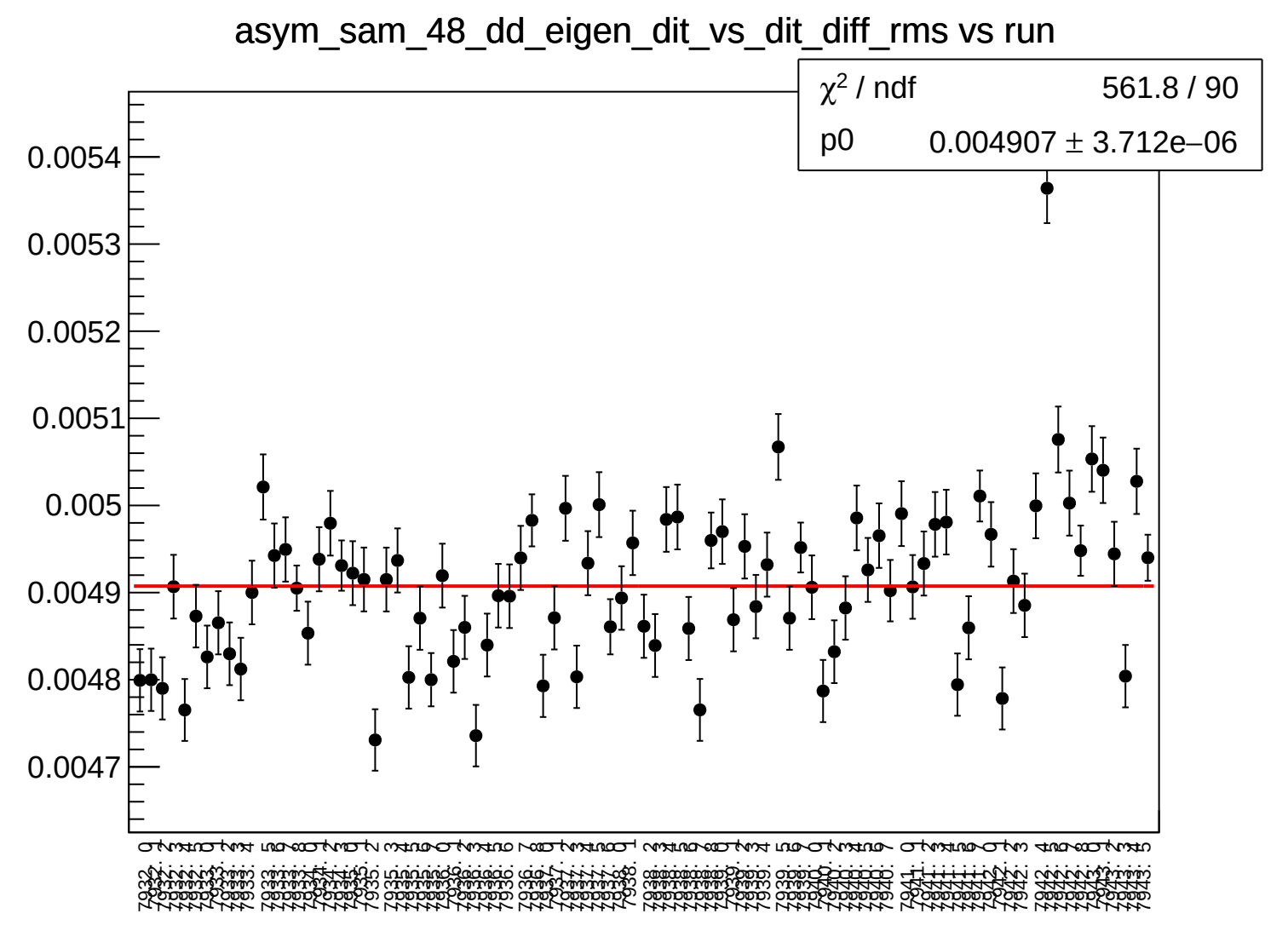

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.15e+04 / 90
p0 67.54 ± 0.0514
120
110
100
90
80
70
60

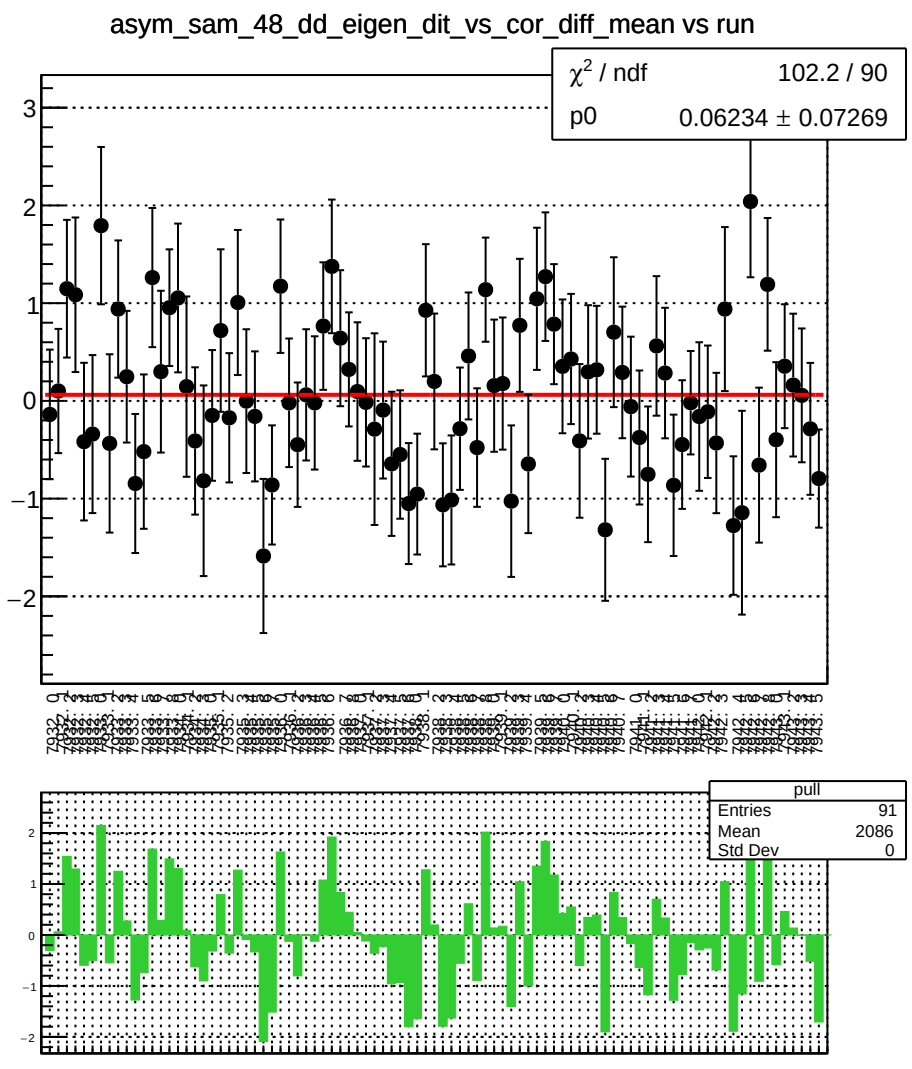

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 90
p0 0.06234 ± 0.07269
pull
Entries 91
Mean 2085
Std Dev 0

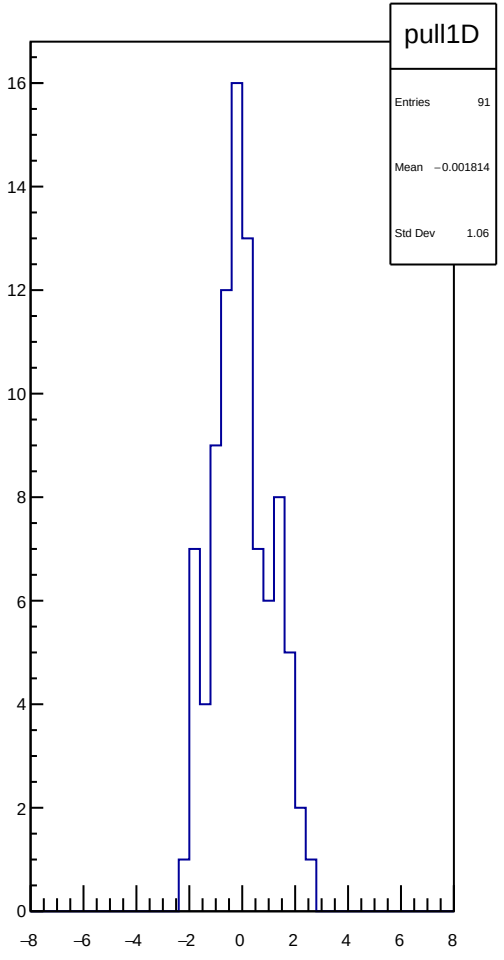

pull1D
Entries 91
Mean −0.001816
Std Dev 1.06

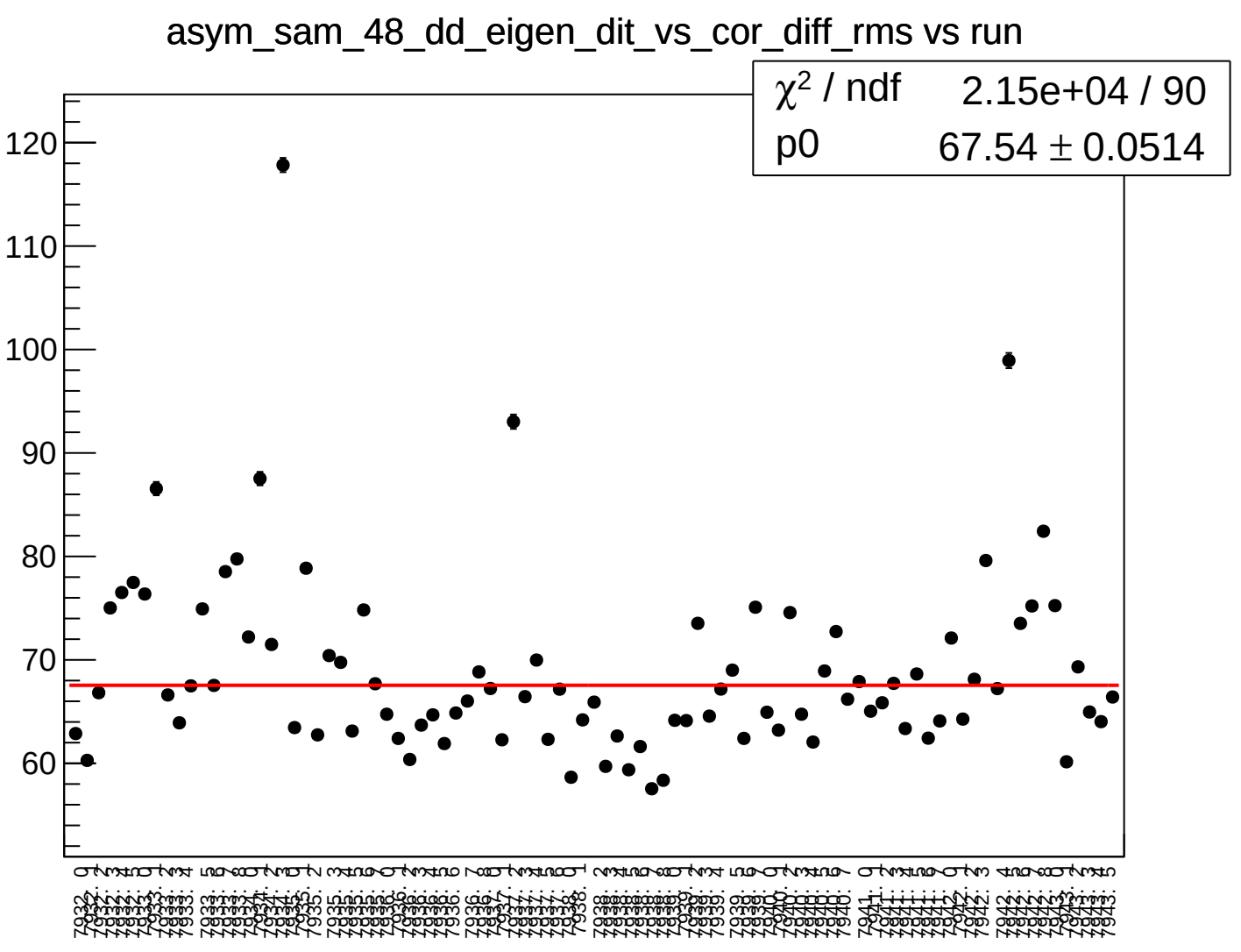

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.15e+04 / 90
p0 67.54 ± 0.0514
120
110
100
90
80
70
60

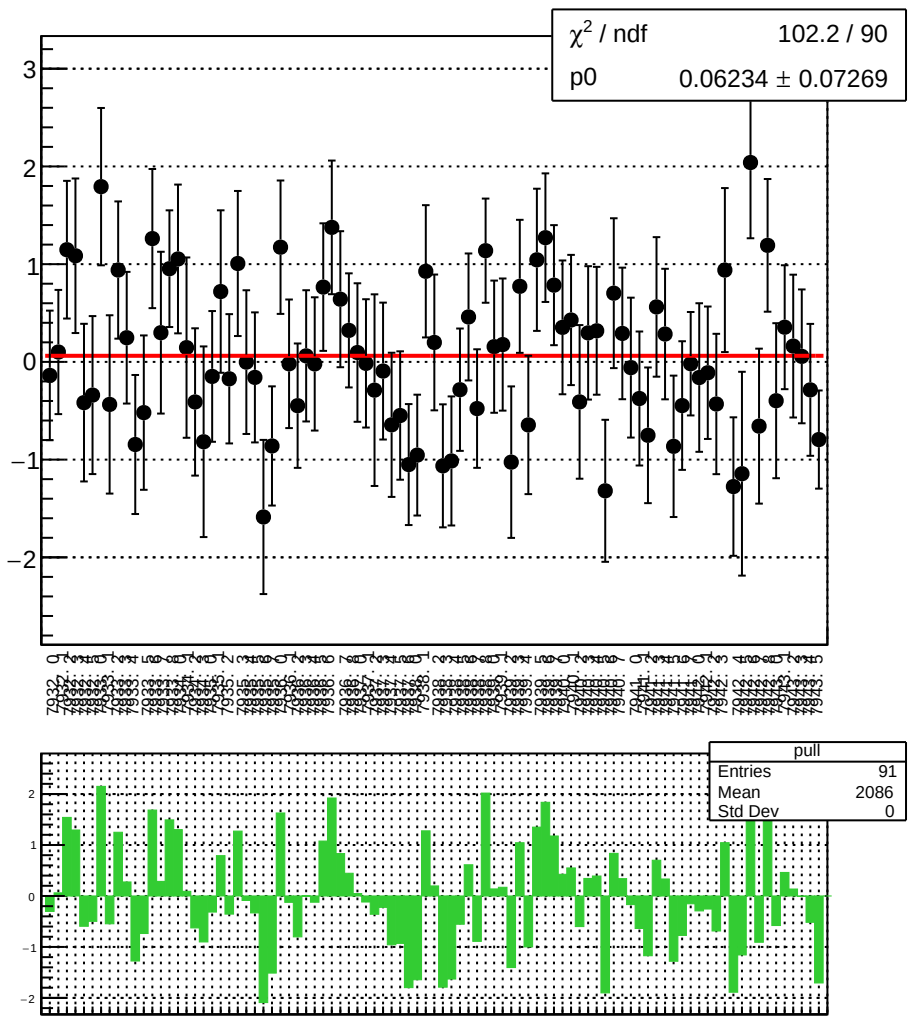

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.37 / 90
p0 3.168e−06 ± 5.25e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 133.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.004745
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

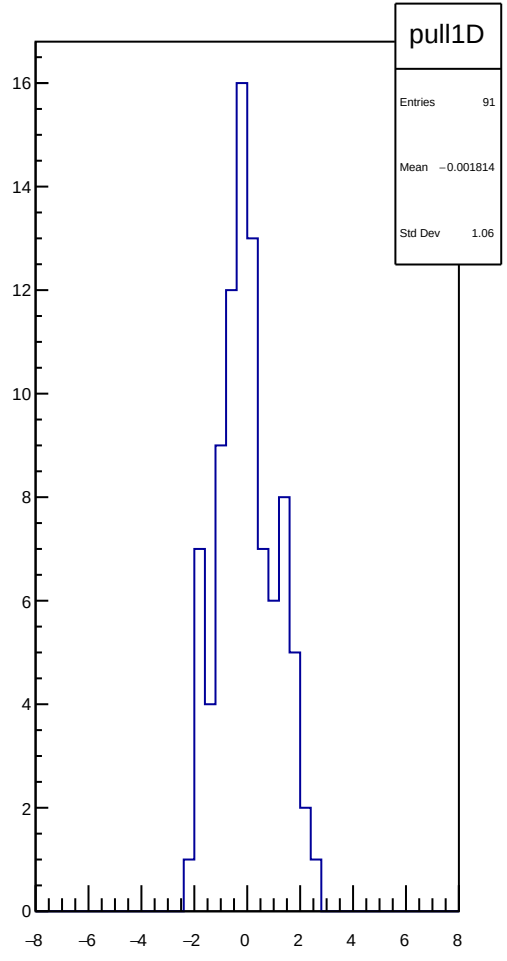

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 561.8 / 90
p0 0.004907 ± 3.712e−06
0.0054
0.0053
0.0052
0.0051
0.005
0.0049
0.0048
0.0047

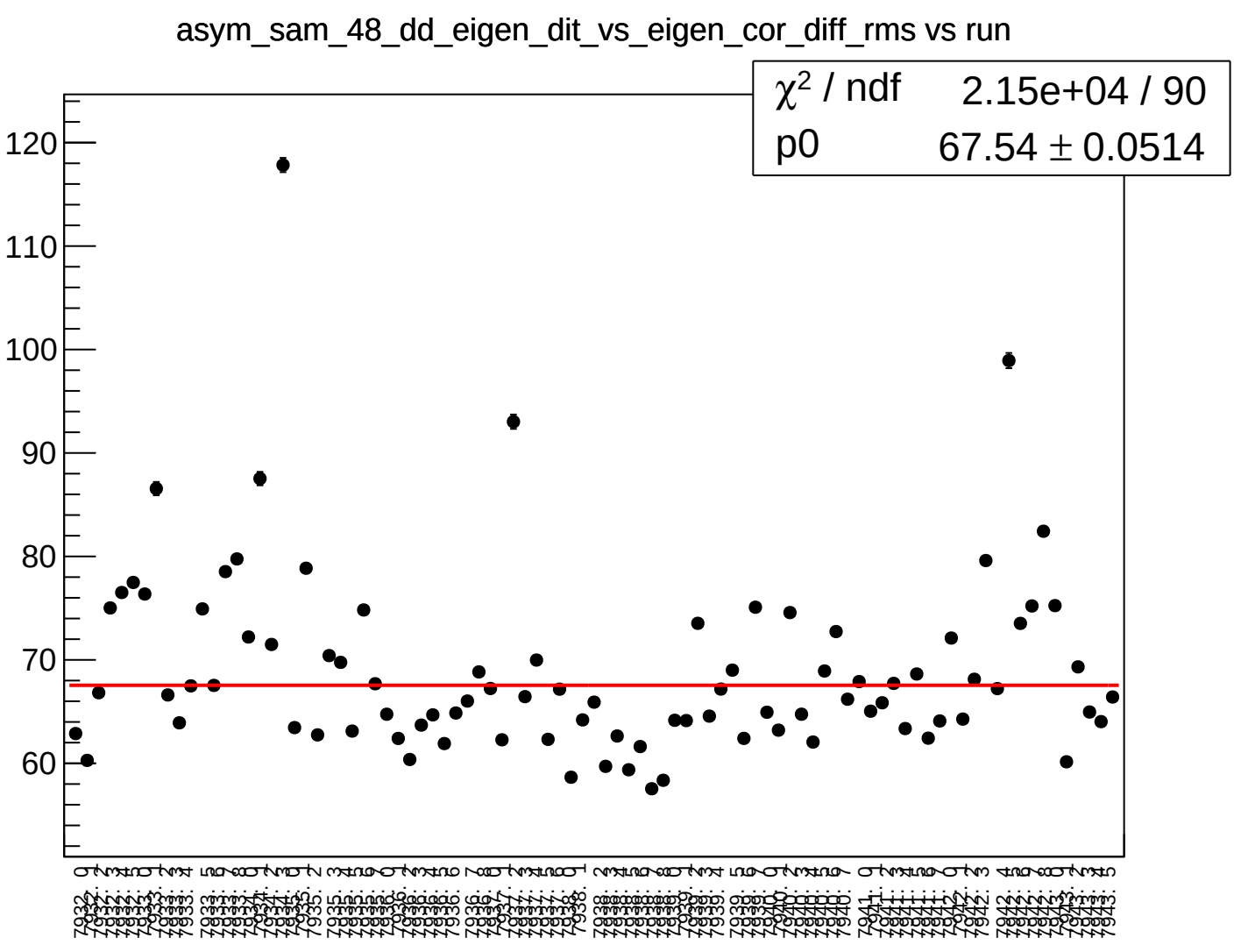

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 90
p0 0.06234 ± 0.07269
pull
Entries 91
Mean 2086
Std Dev 0

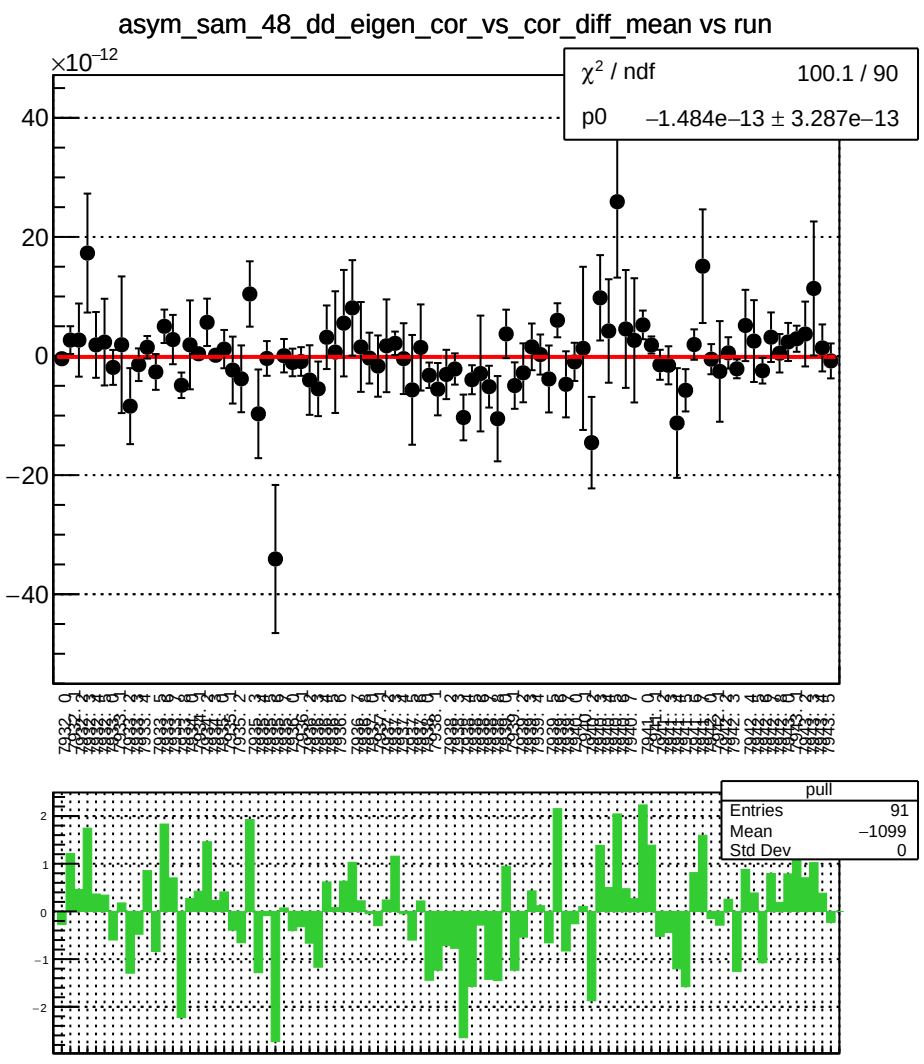

pull1D
Entries 91
Mean −0.001814
Std Dev 1.06

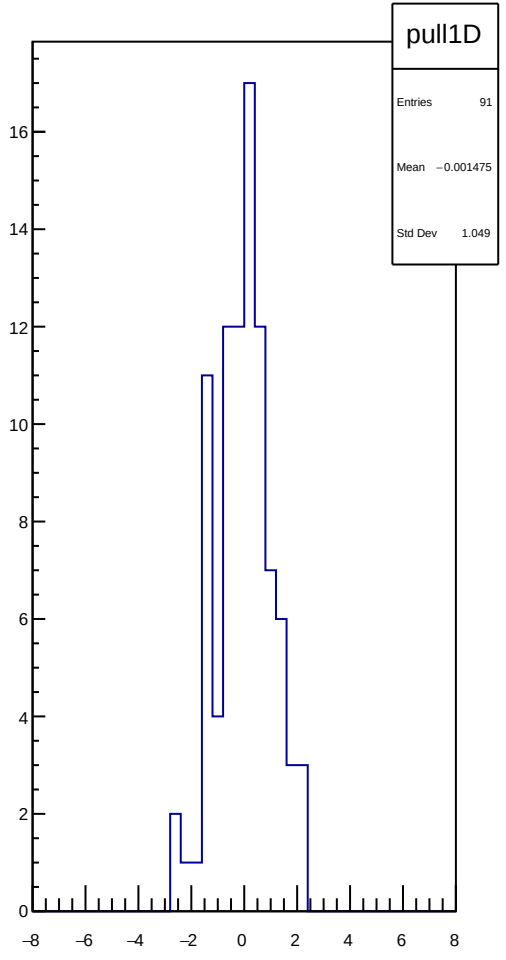

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.15e+04 / 90
p0 67.54 ± 0.0514
120
110
100
90
80
70
60

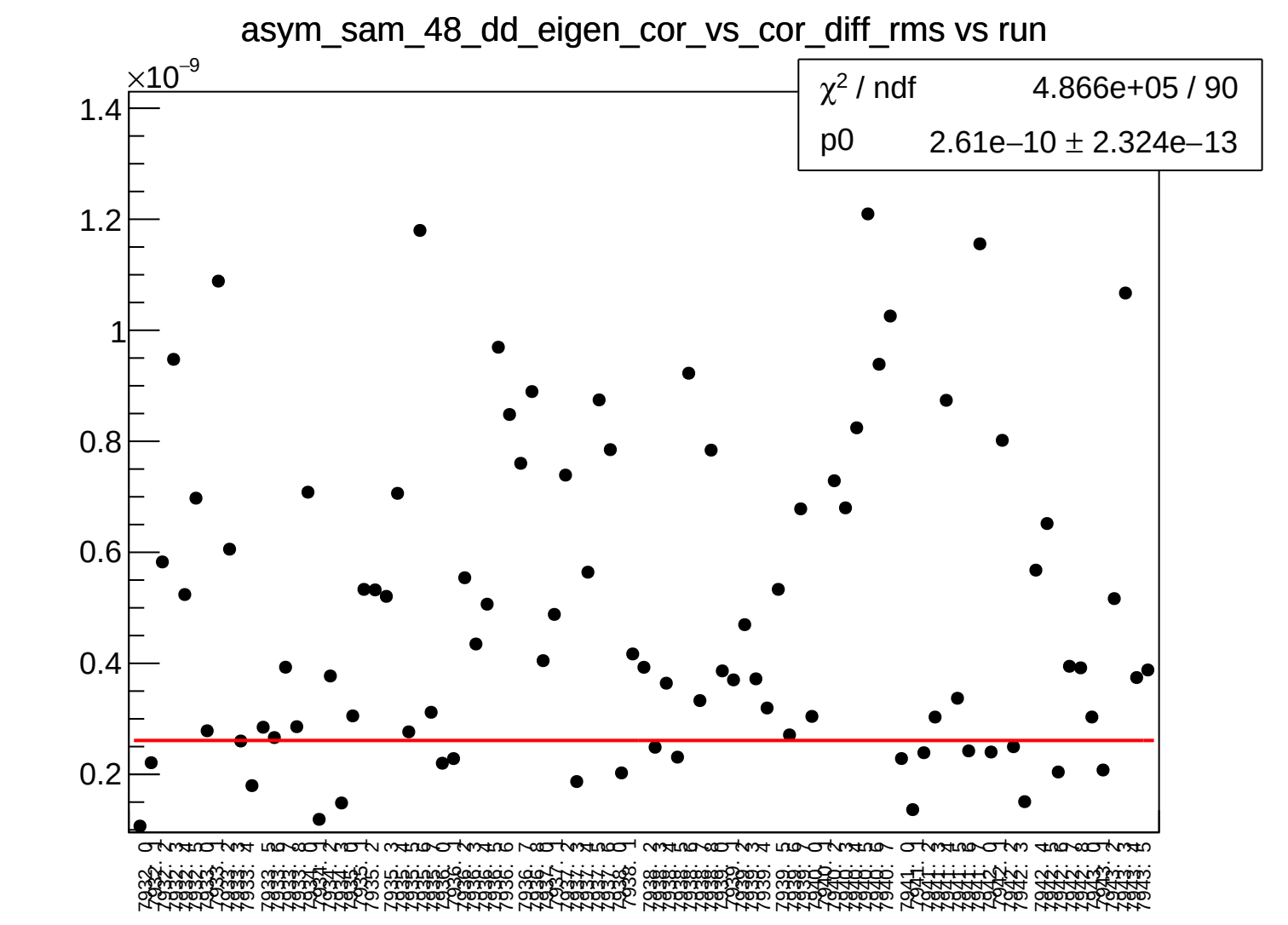

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 90
p0 0.06234 ± 0.07269
pull
Entries 91
Mean 2086
Std Dev 0

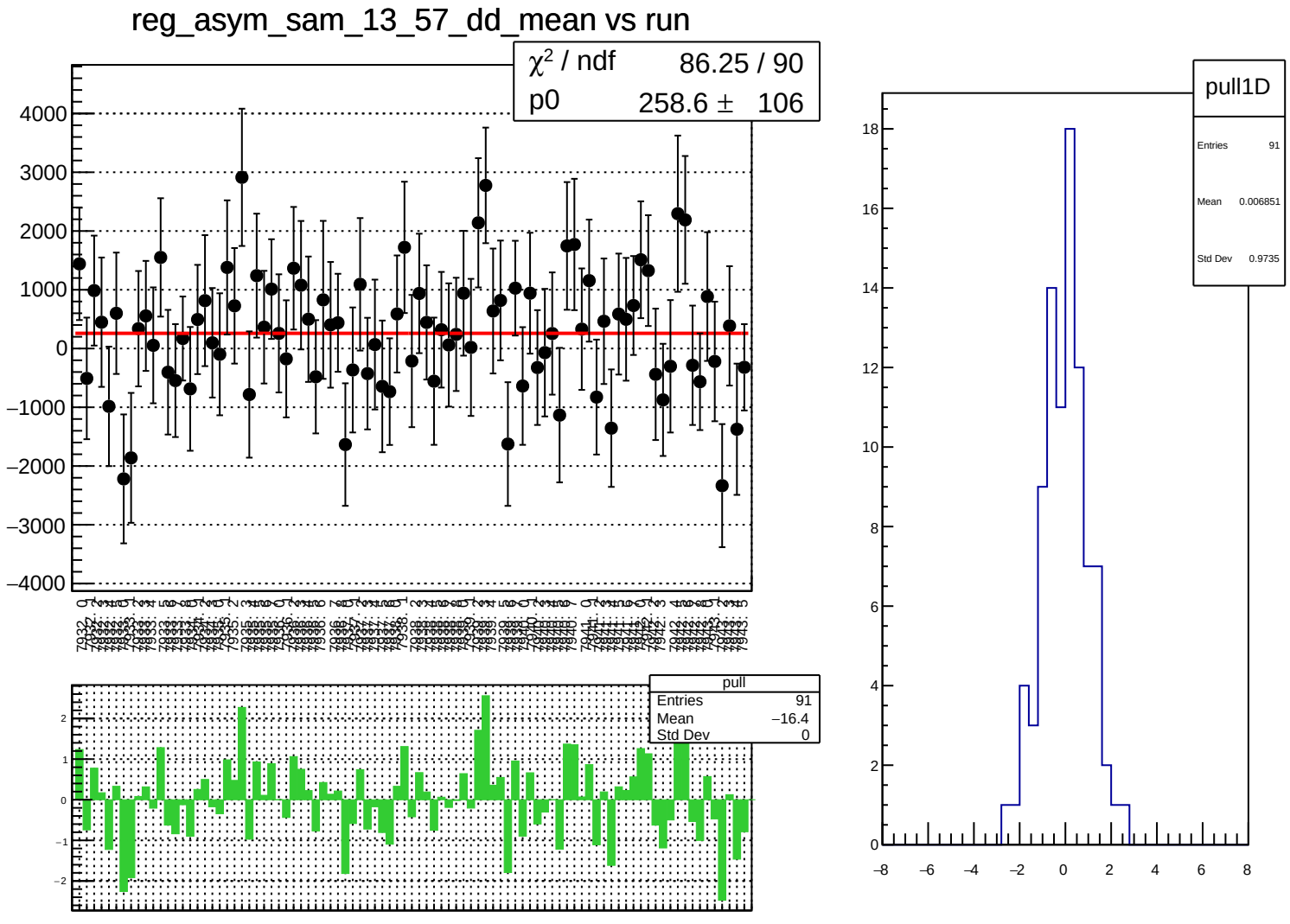

pull1D
Entries 91
Mean −0.001814
Std Dev 1.06

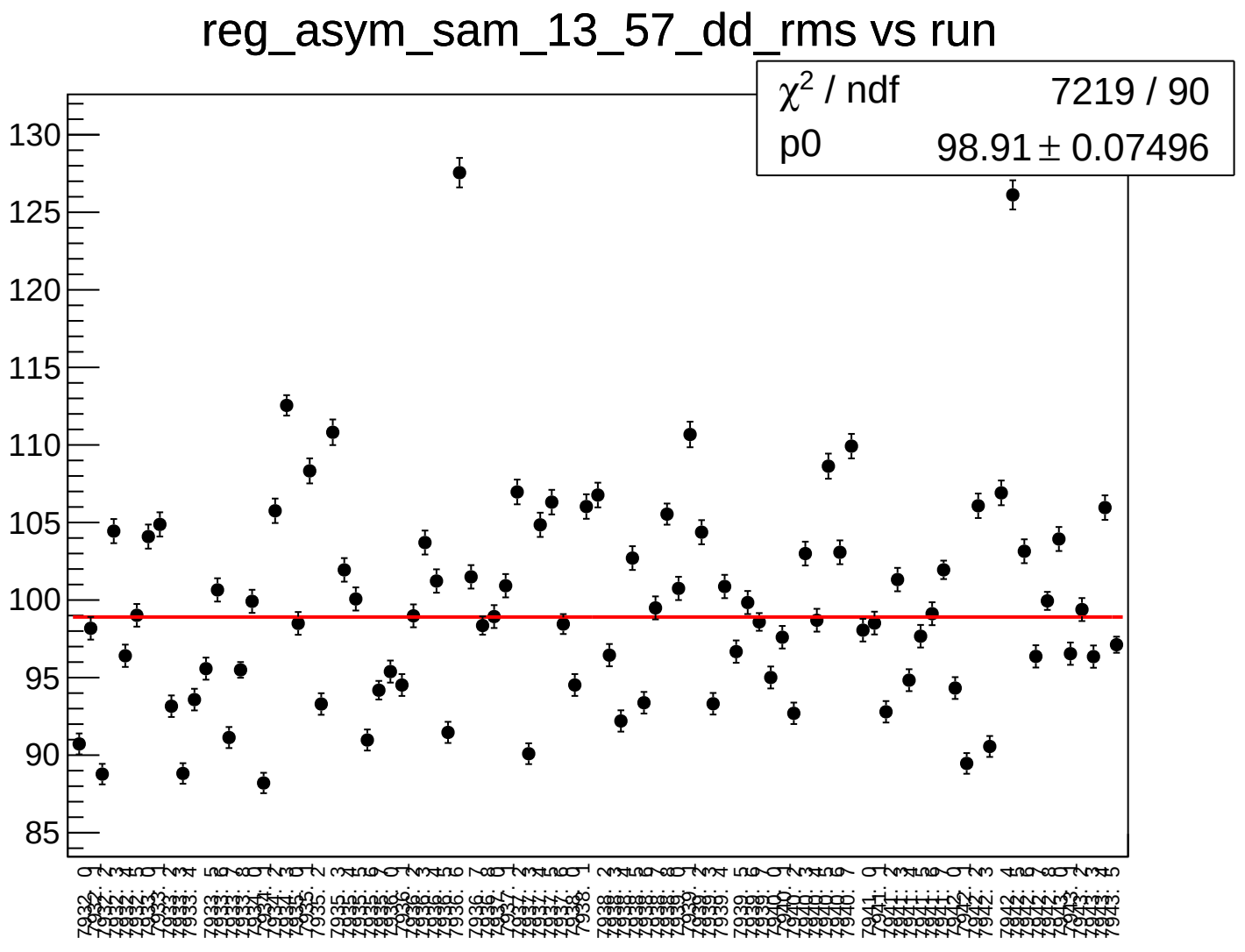

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.15e+04 / 90
p0 67.54 ± 0.0514
120
110
100
90
80
70
60

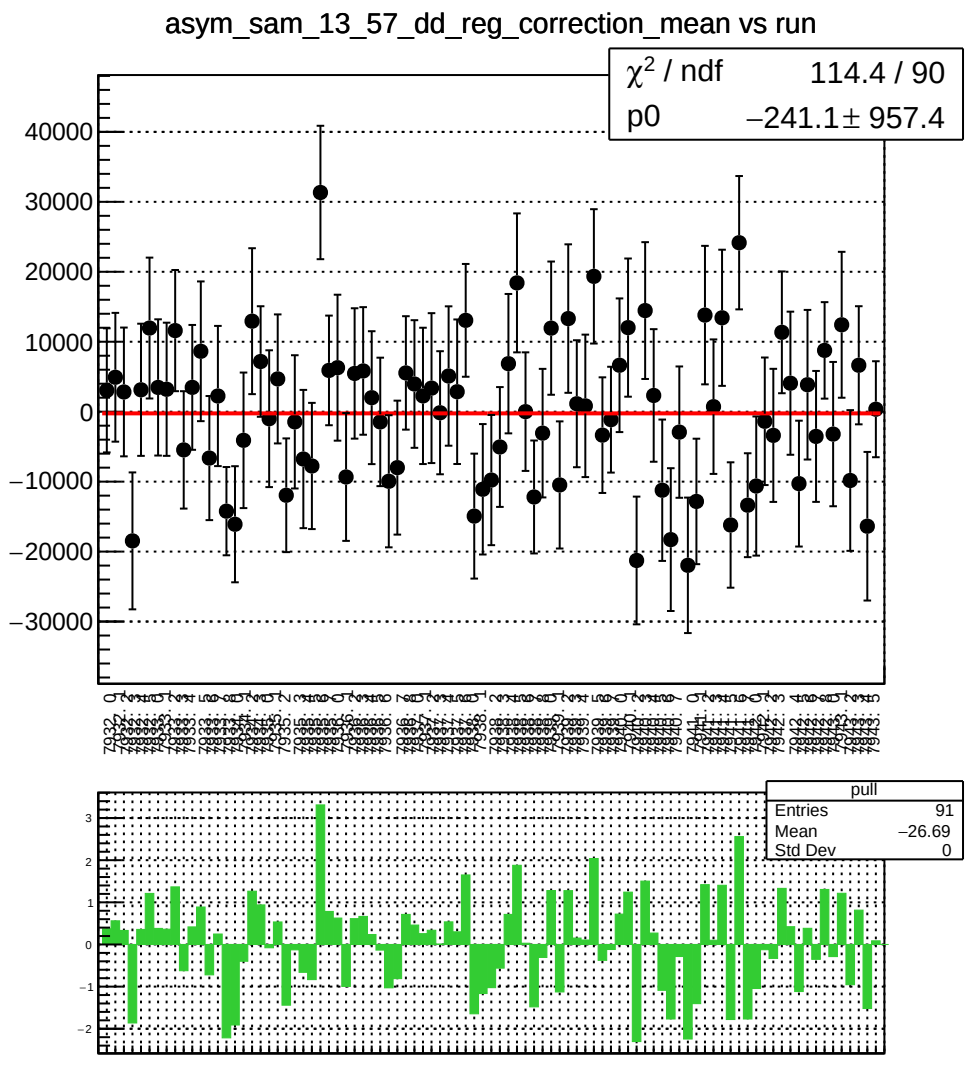

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 90
p0 −1.484e−13 ± 3.287e−13
40
20
0
−20
−40
pull
Entries 91
Mean −1099
Std Dev 0
2
1
0
−1
−2

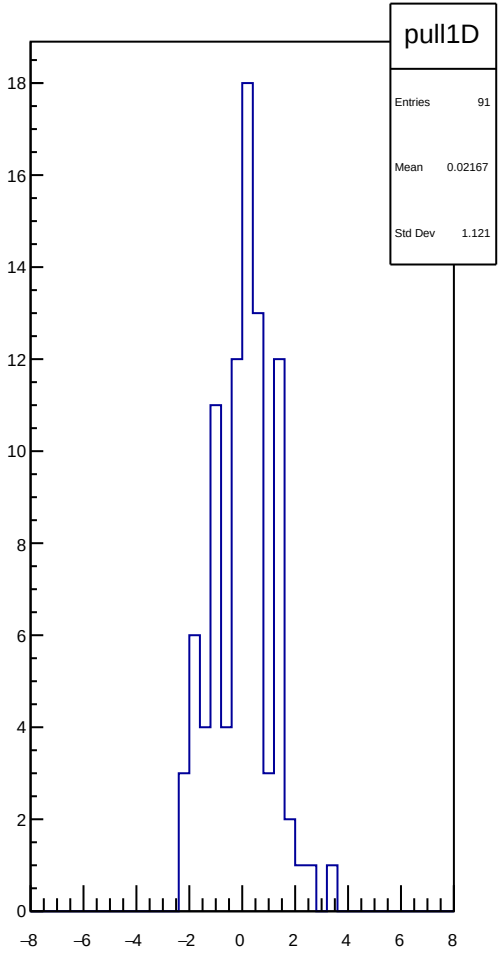

pull1D
Entries 91
Mean −0.001475
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

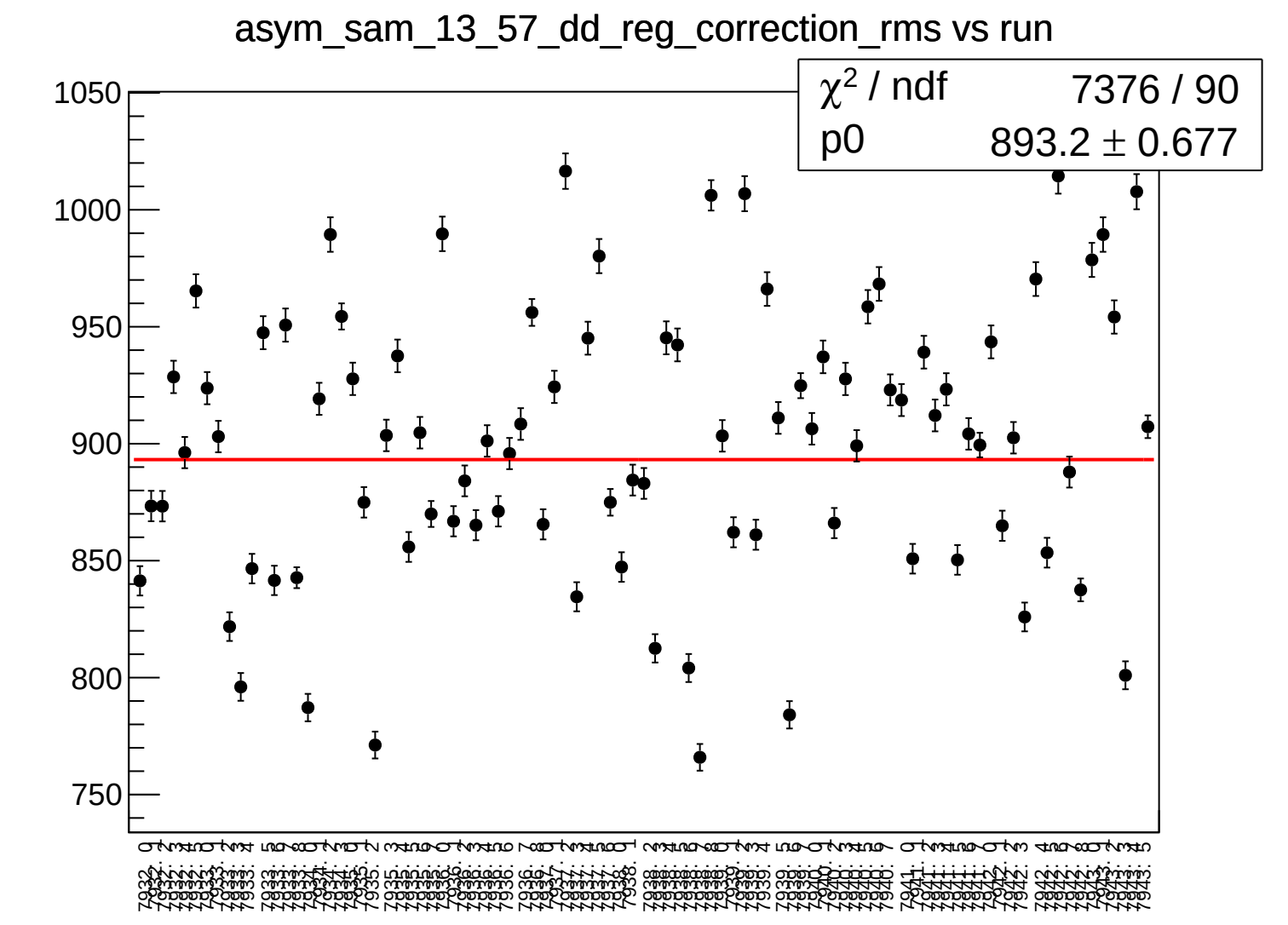

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.866e+05 / 90
p0 2.61e−10 ± 2.324e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

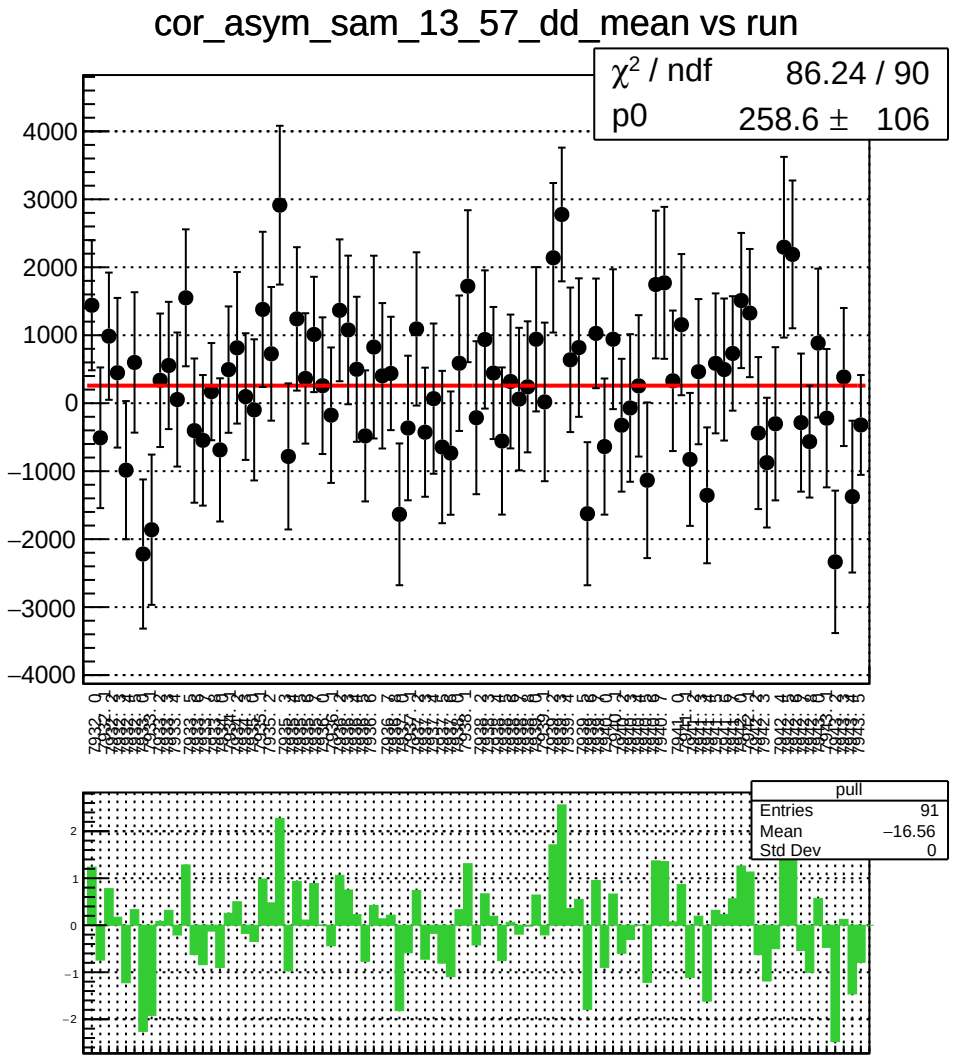

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.25 / 90
p0 258.6 ± 106
pull
Entries 91
Mean −16.4
Std Dev 0
pull1D
Entries 91
Mean 0.006851
Std Dev 0.9735

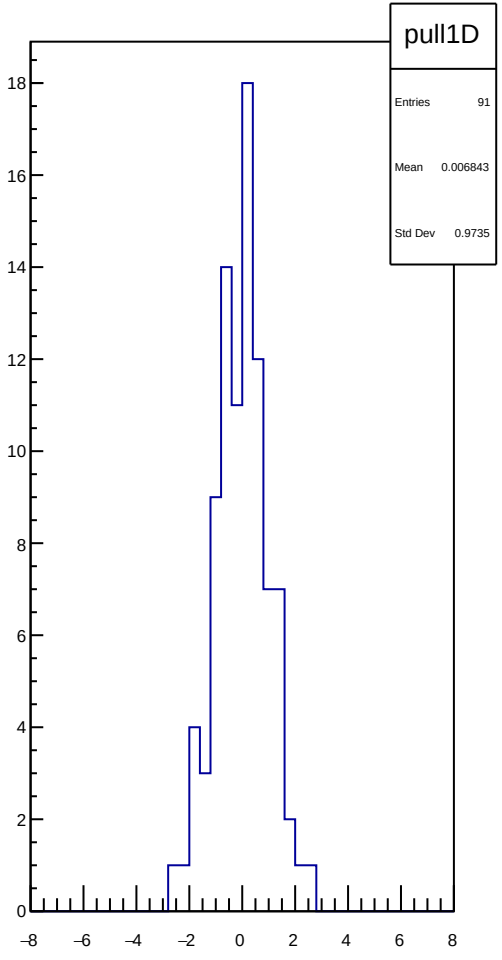

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7219 / 90
p0 98.91 ± 0.07496
130
125
120
115
110
105
100
95
90
85

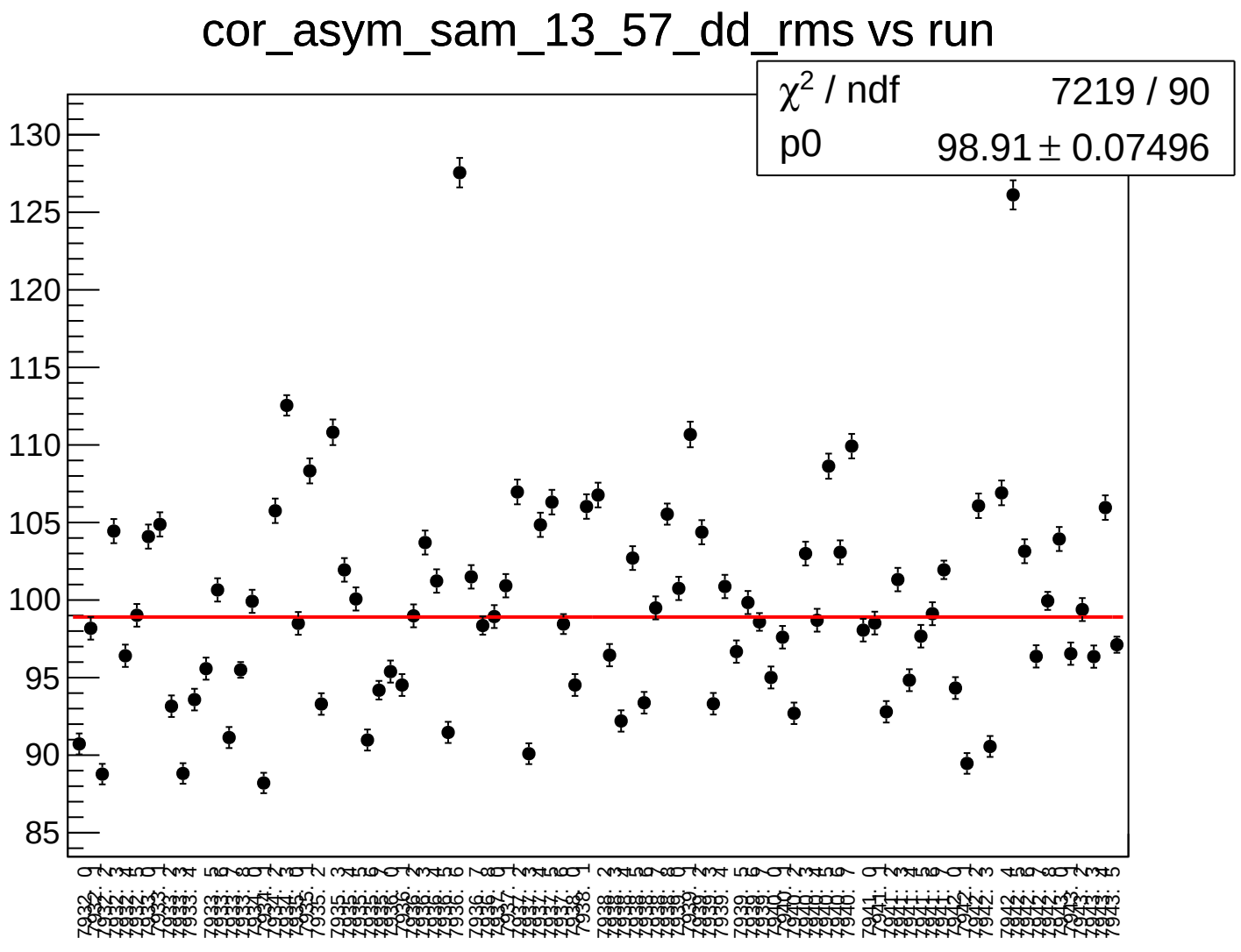

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 114.4 / 90
p0 −241.1± 957.4
pull
Entries 91
Mean −26.69
Std Dev 0

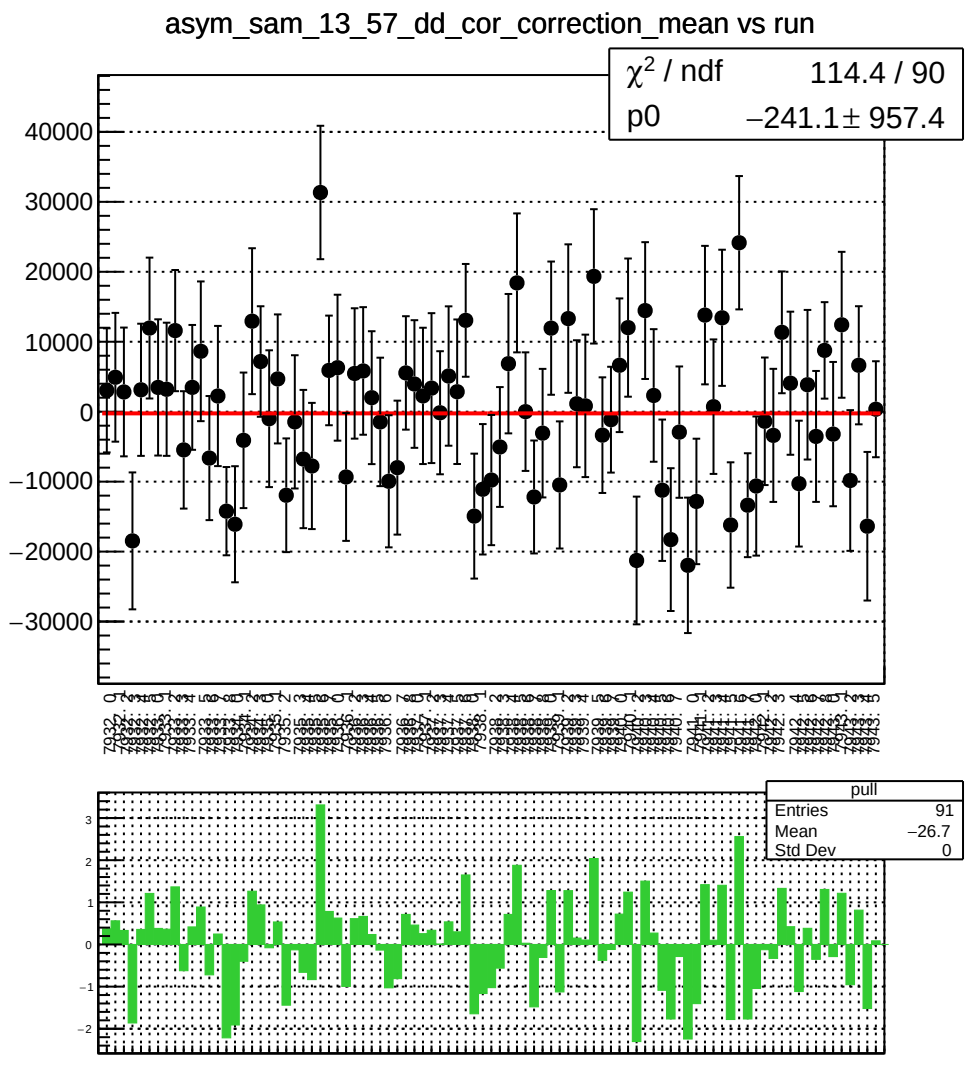

pull1D
Entries 91
Mean 0.02167
Std Dev 1.121

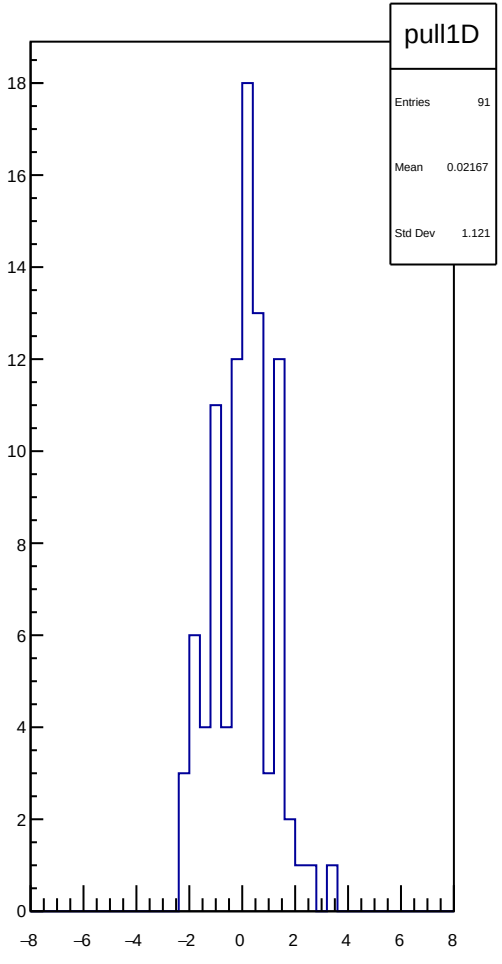

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 7376 / 90
p0 893.2 ± 0.677
1050
1000
950
900
850
800
750

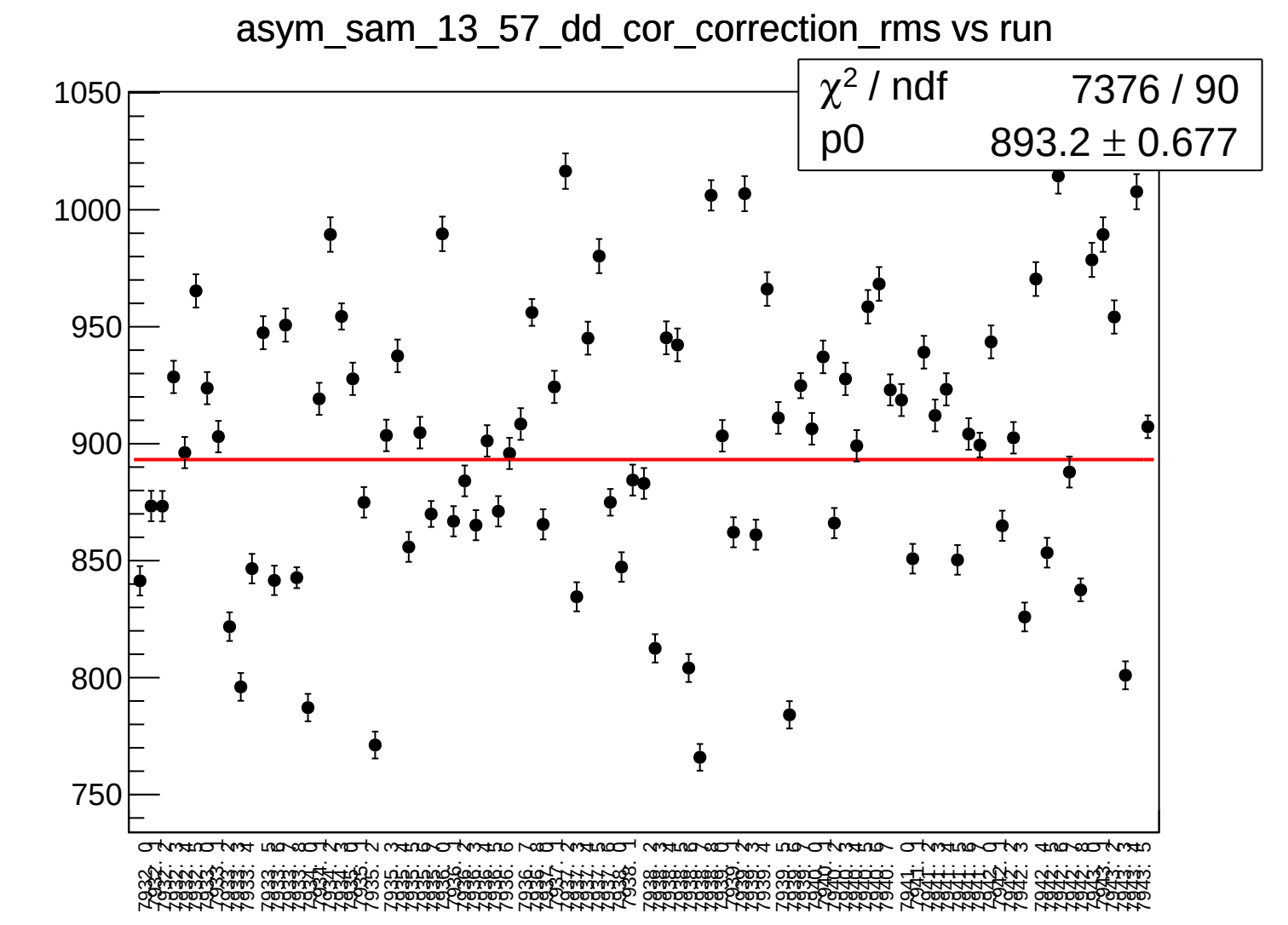

cor_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 86.24 / 90
p0 258.6 ± 106
pull
Entries 91
Mean −16.56
Std Dev 0

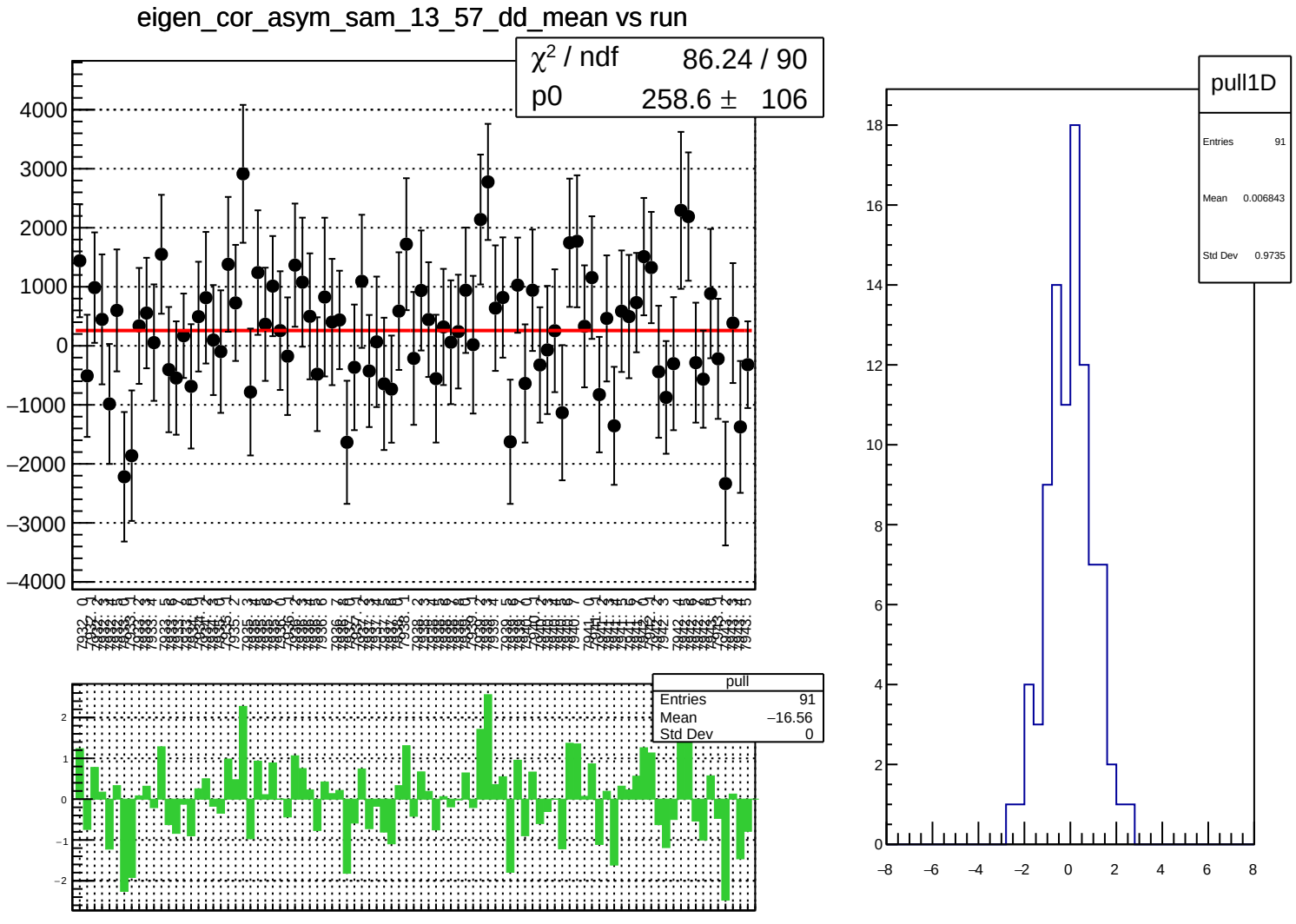

pull1D
Entries 91
Mean 0.006843
Std Dev 0.9735

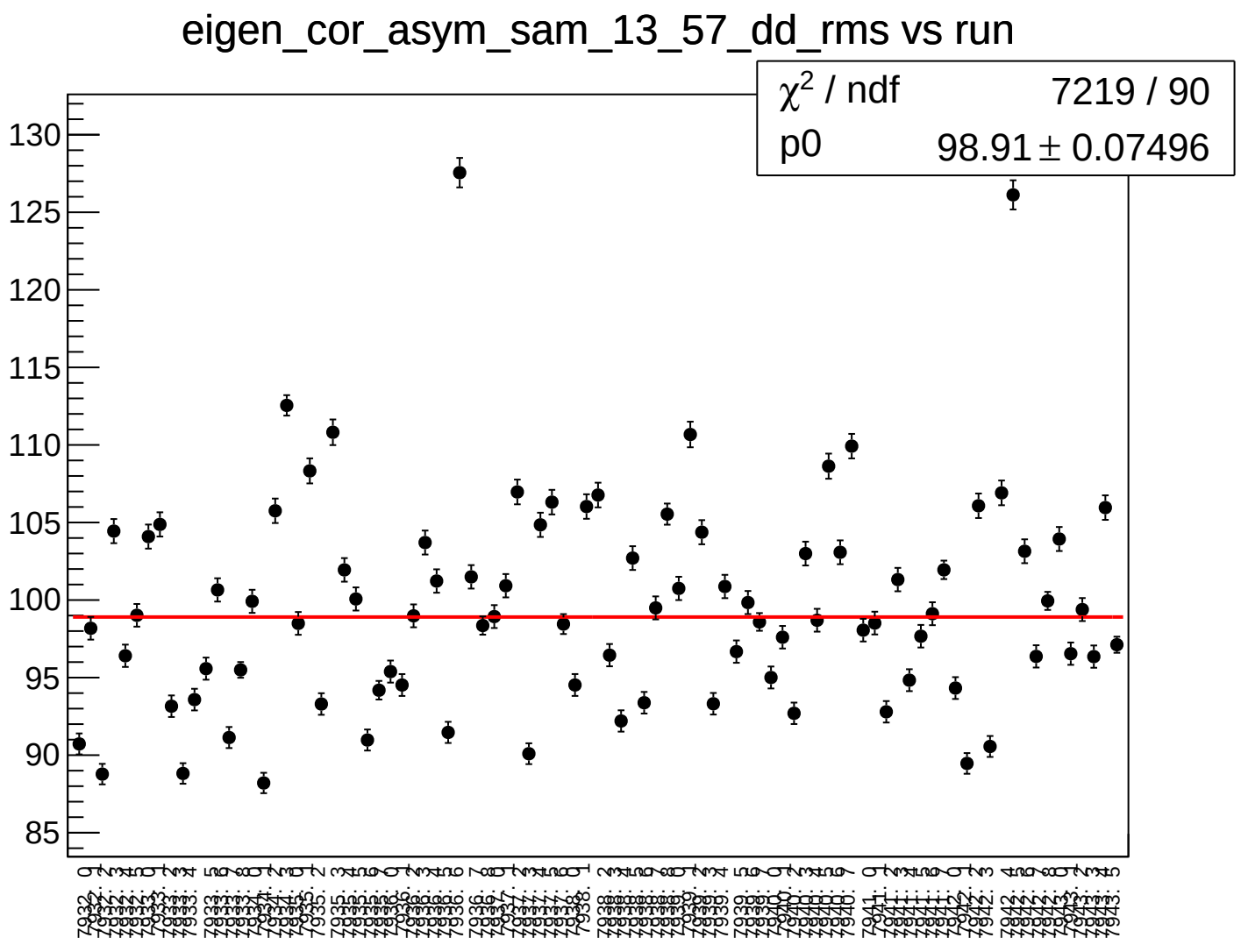

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7219 / 90
p0 98.91 ± 0.07496
130
125
120
115
110
105
100
95
90
85

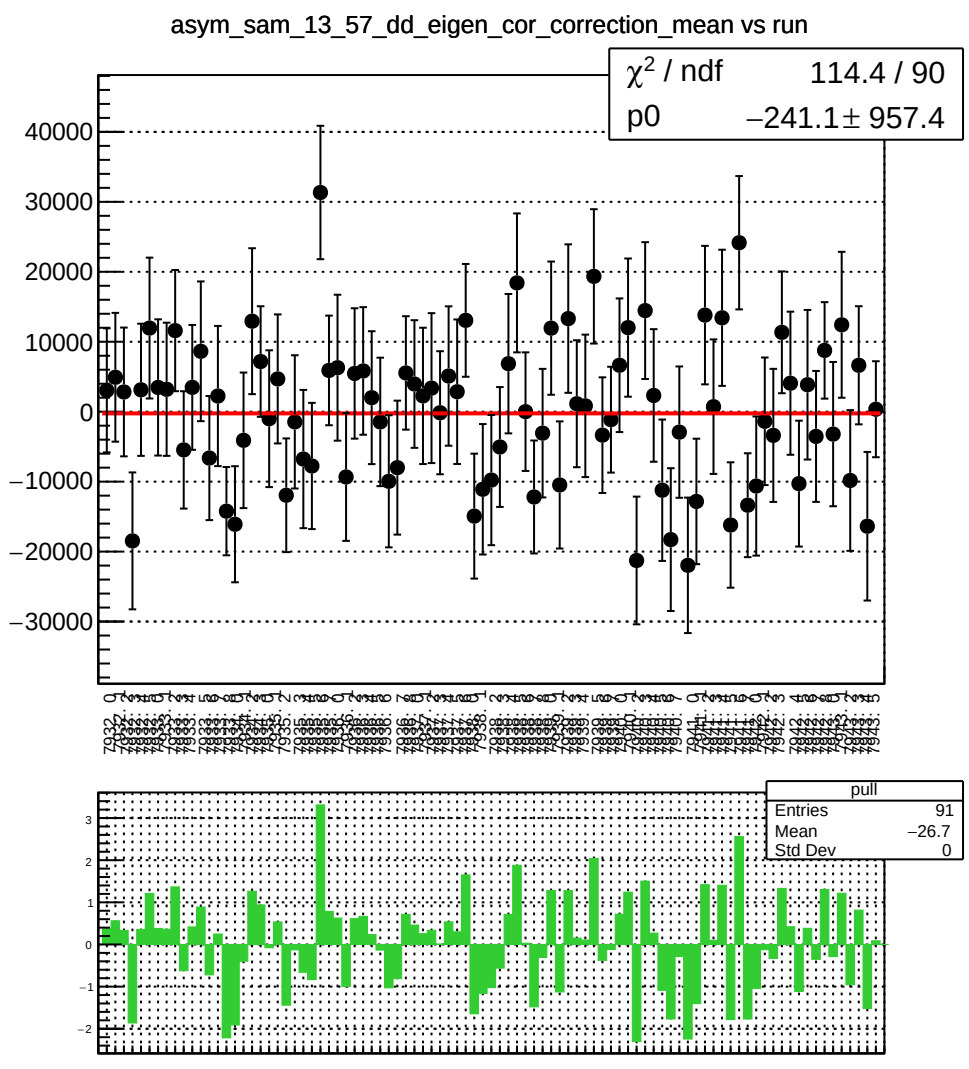

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 114.4 / 90
p0 −241.1± 957.4
pull
Entries 91
Mean −26.7
Std Dev 0

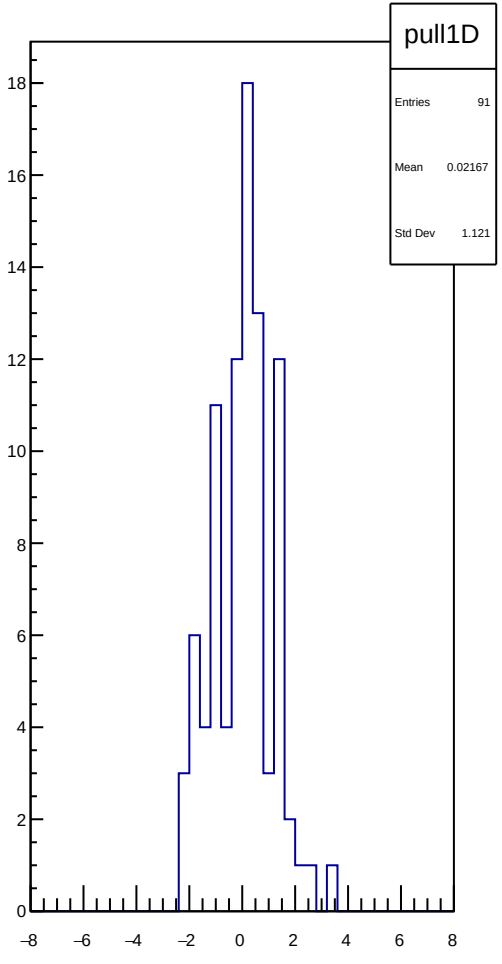

pull1D
Entries 91
Mean 0.02167
Std Dev 1.121

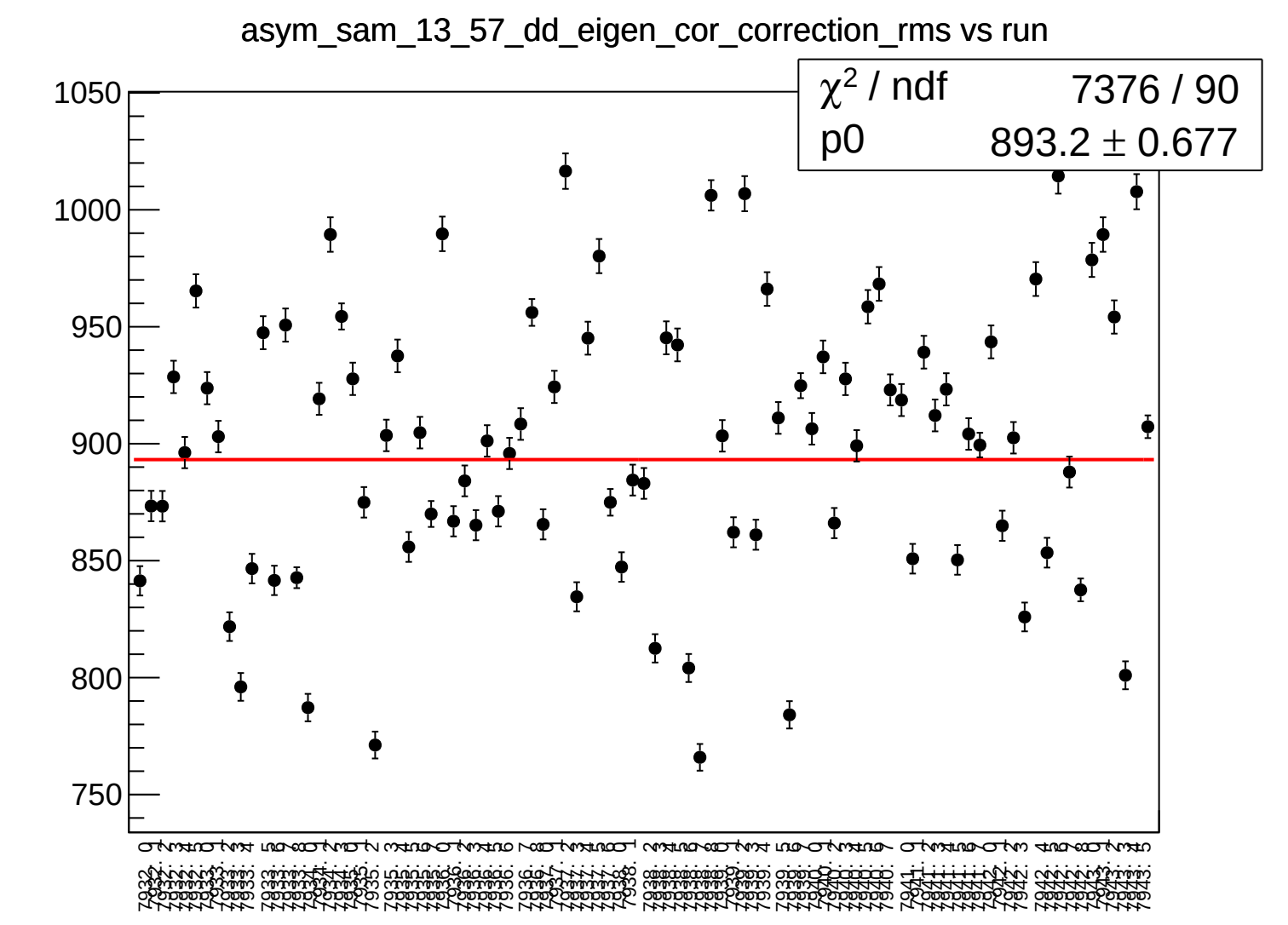

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 7376 / 90
p0 893.2 ± 0.677
1050
1000
950
900
850
800
750

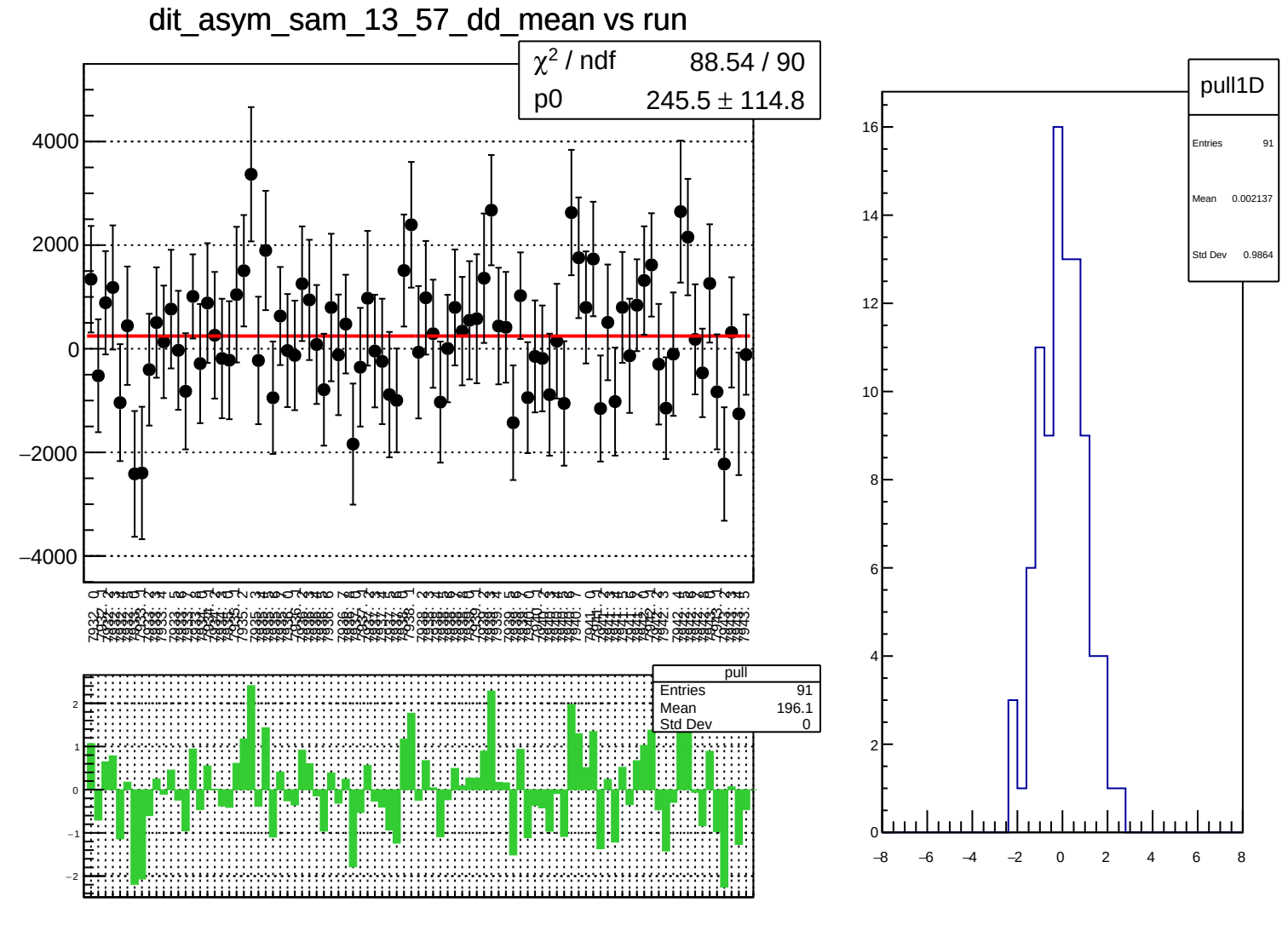

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.24 / 90
p0 258.6 ± 106
pull
Entries 91
Mean −16.56
Std Dev 0
pull1D
Entries 91
Mean 0.006843
Std Dev 0.9735

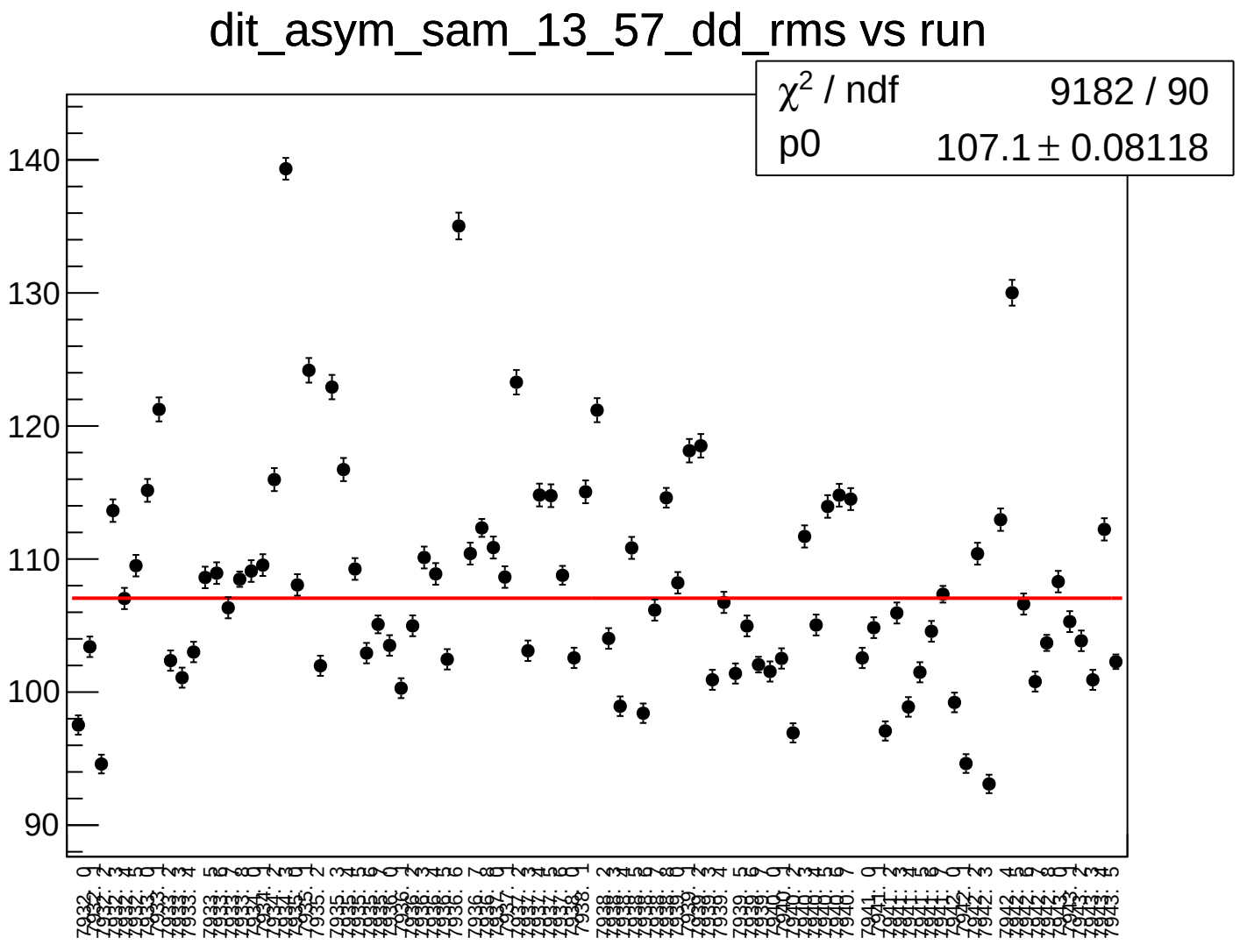

eigen_cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7219 / 90
p0 98.91 ± 0.07496
130
125
120
115
110
105
100
95
90
85

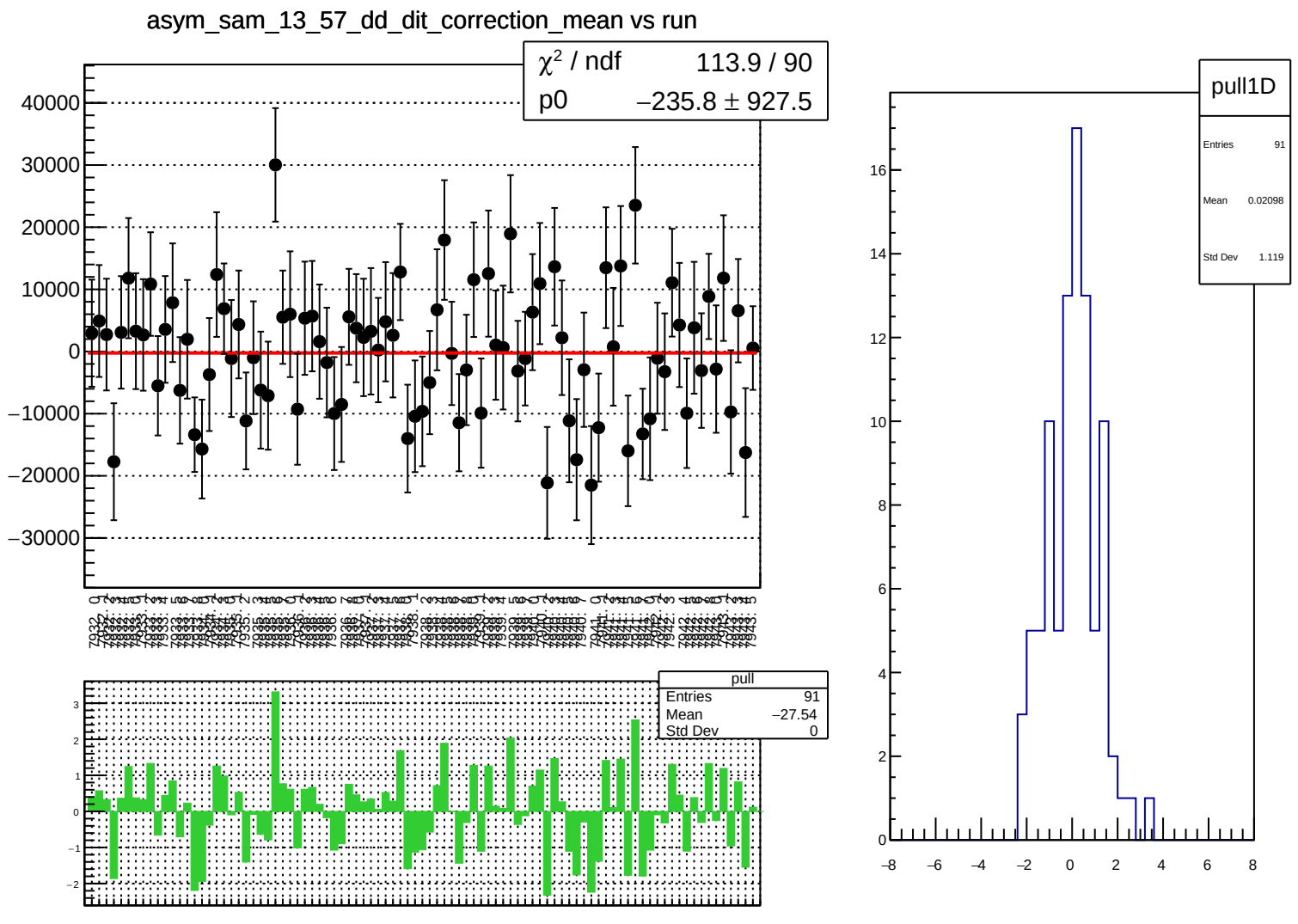

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.4 / 90
p0 −241.1± 957.4
pull
Entries 91
Mean −26.7
Std Dev 0

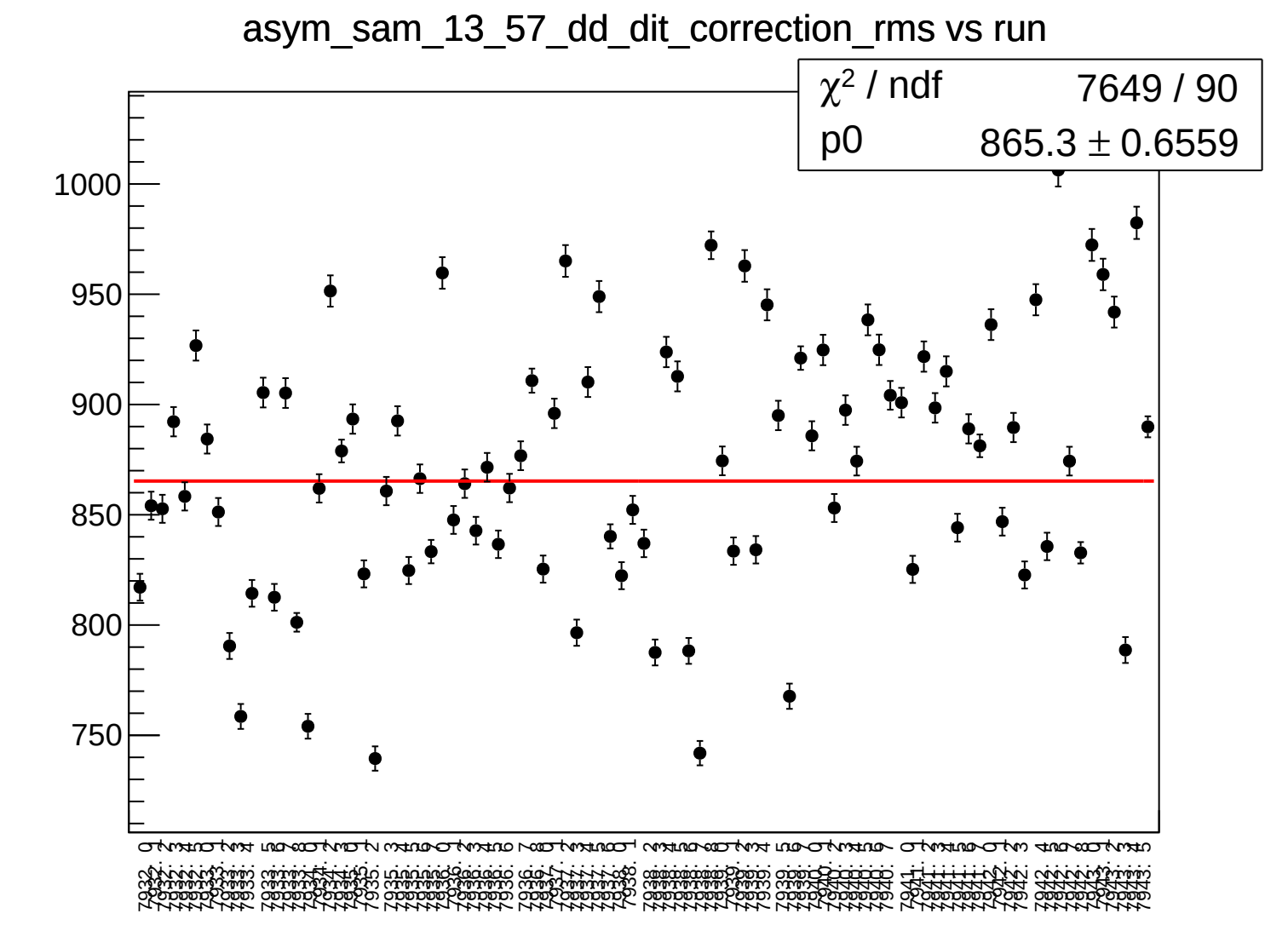

pull1D
Entries 91
Mean 0.02167
Std Dev 1.121

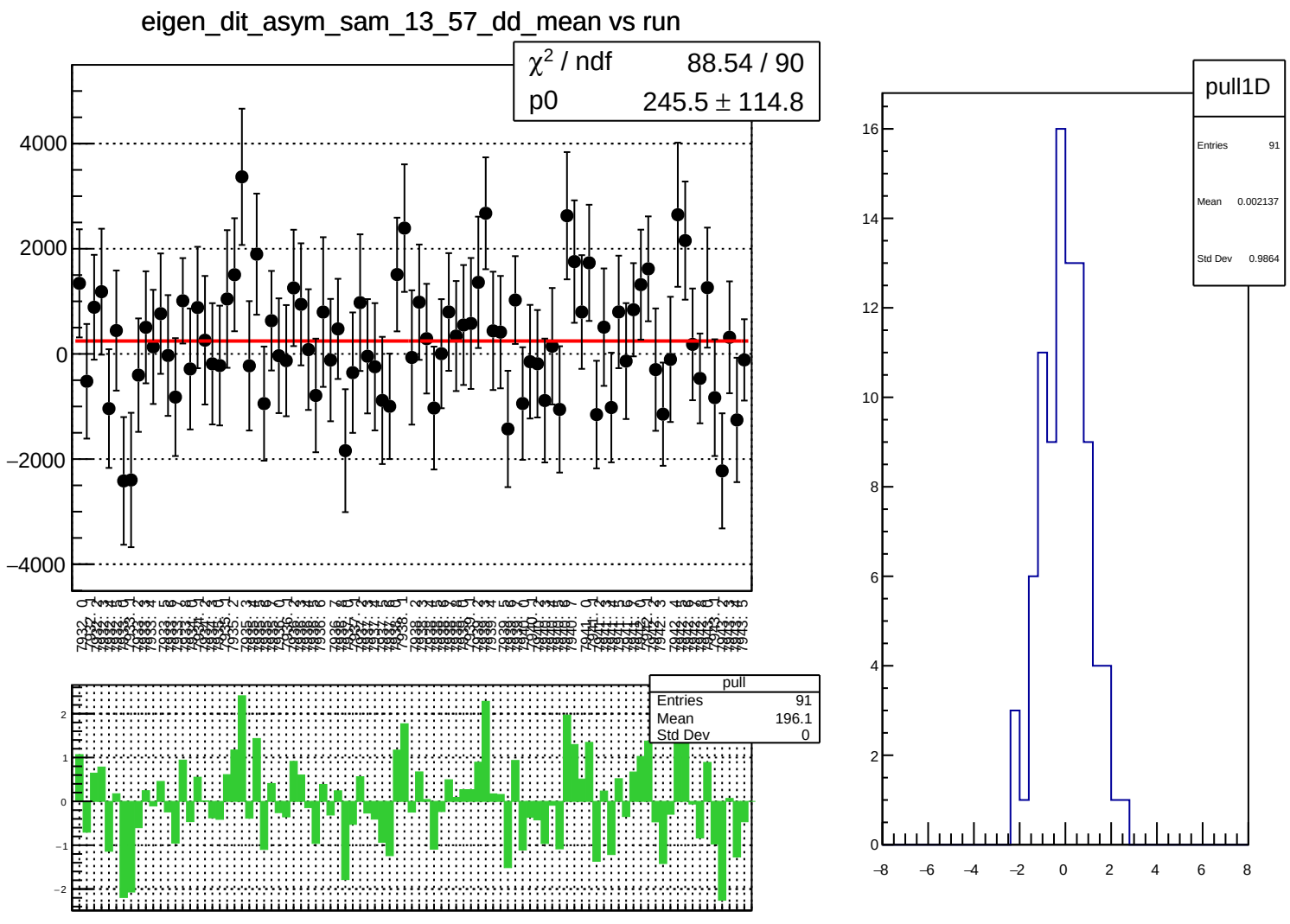

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 7376 / 90
p0 893.2 ± 0.677
1050
1000
950
900
850
800
750

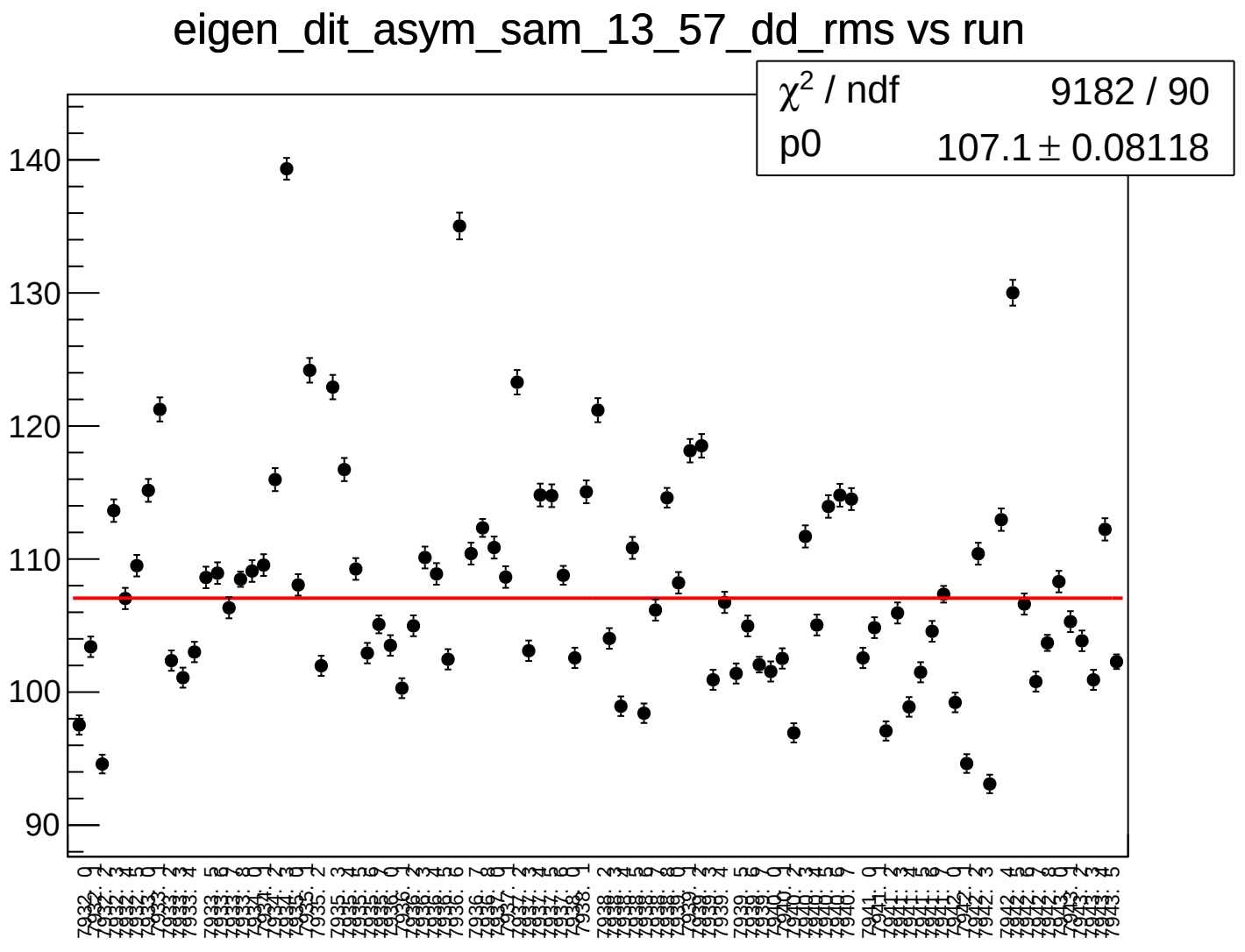

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.54 / 90
p0 245.5 ± 114.8
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 196.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.002137
Std Dev 0.9864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

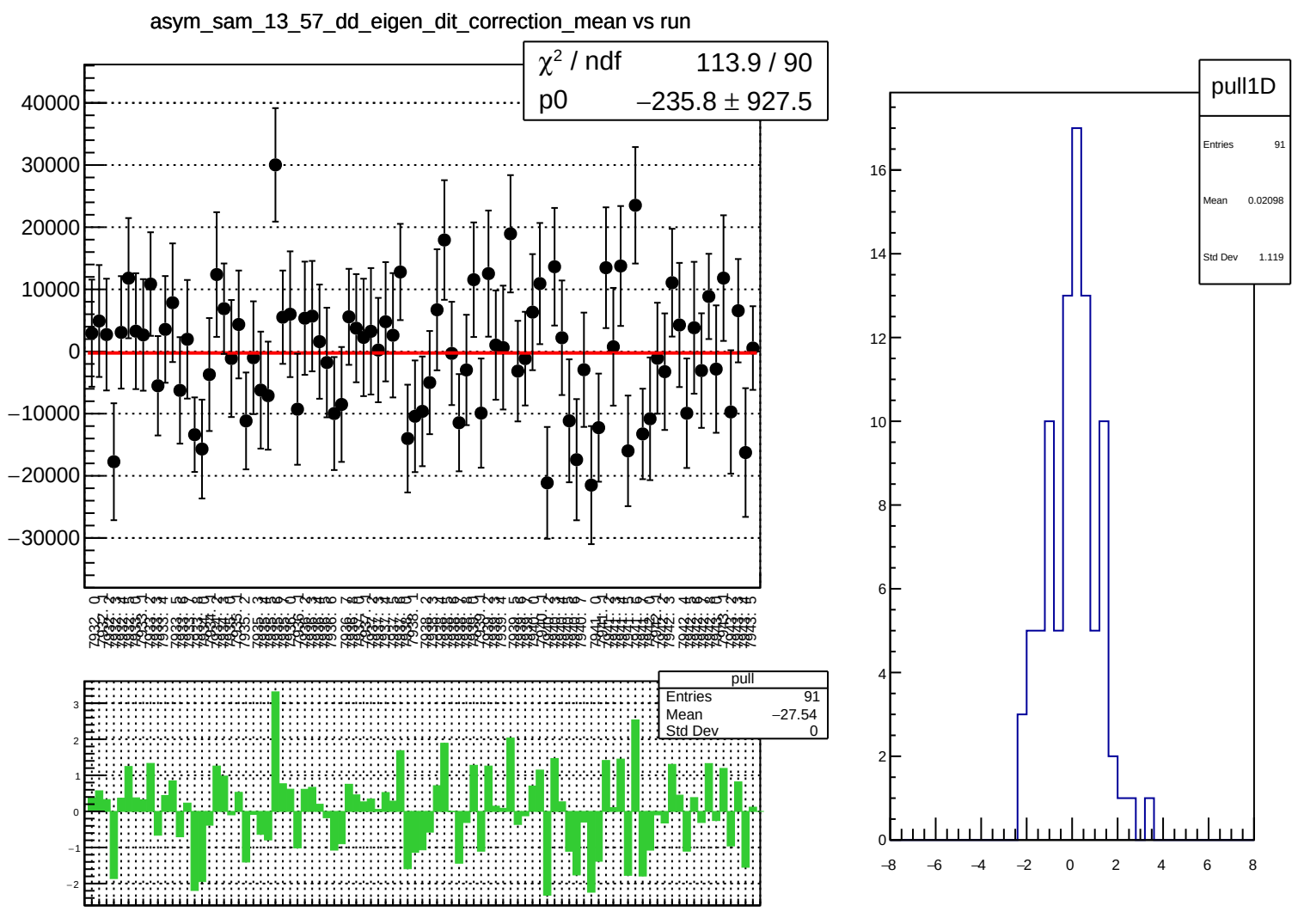

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9182 / 90
p0 107.1 ± 0.08118
140
130
120
110
100
90

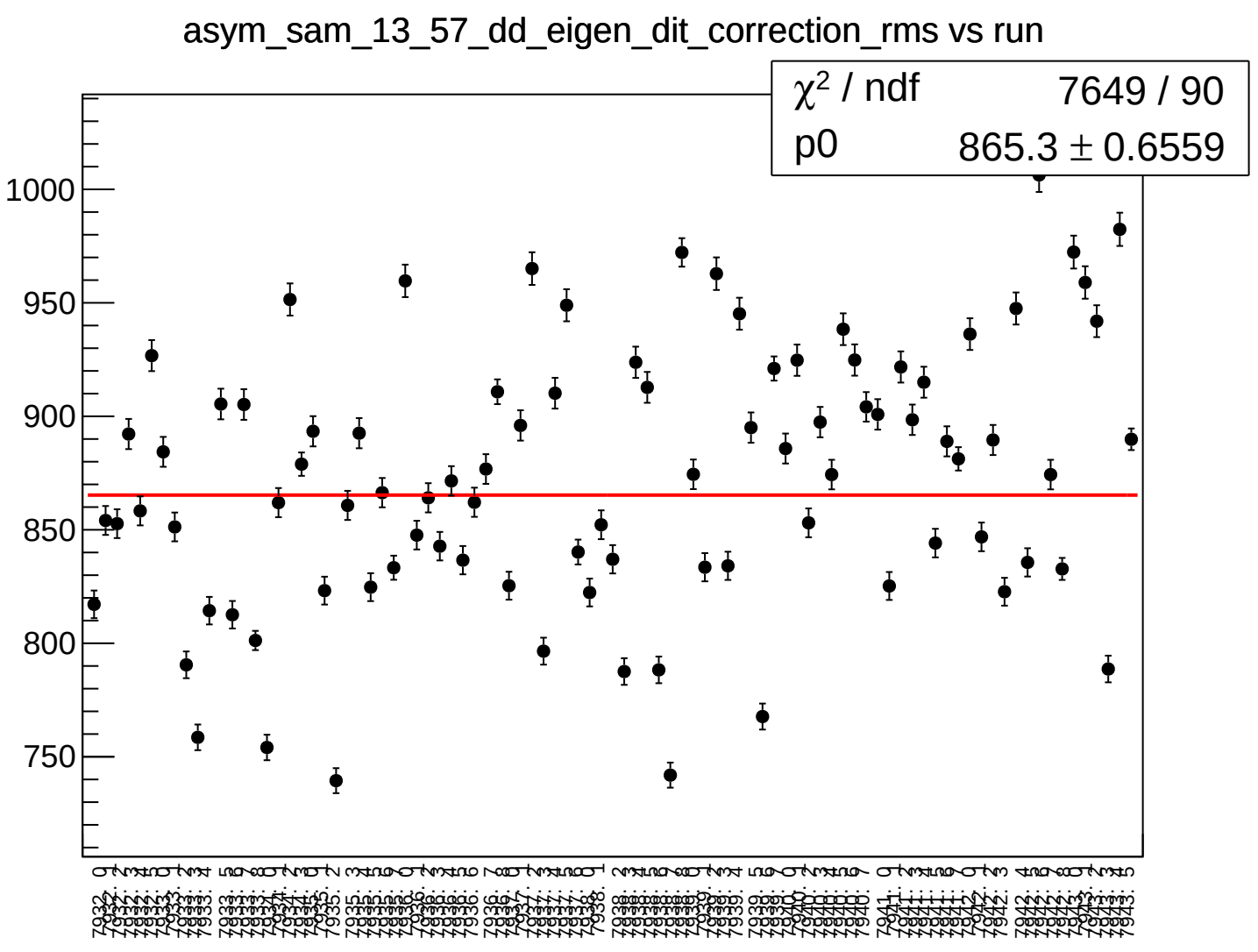

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 113.9 / 90
p0 −235.8 ± 927.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −27.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.02098
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

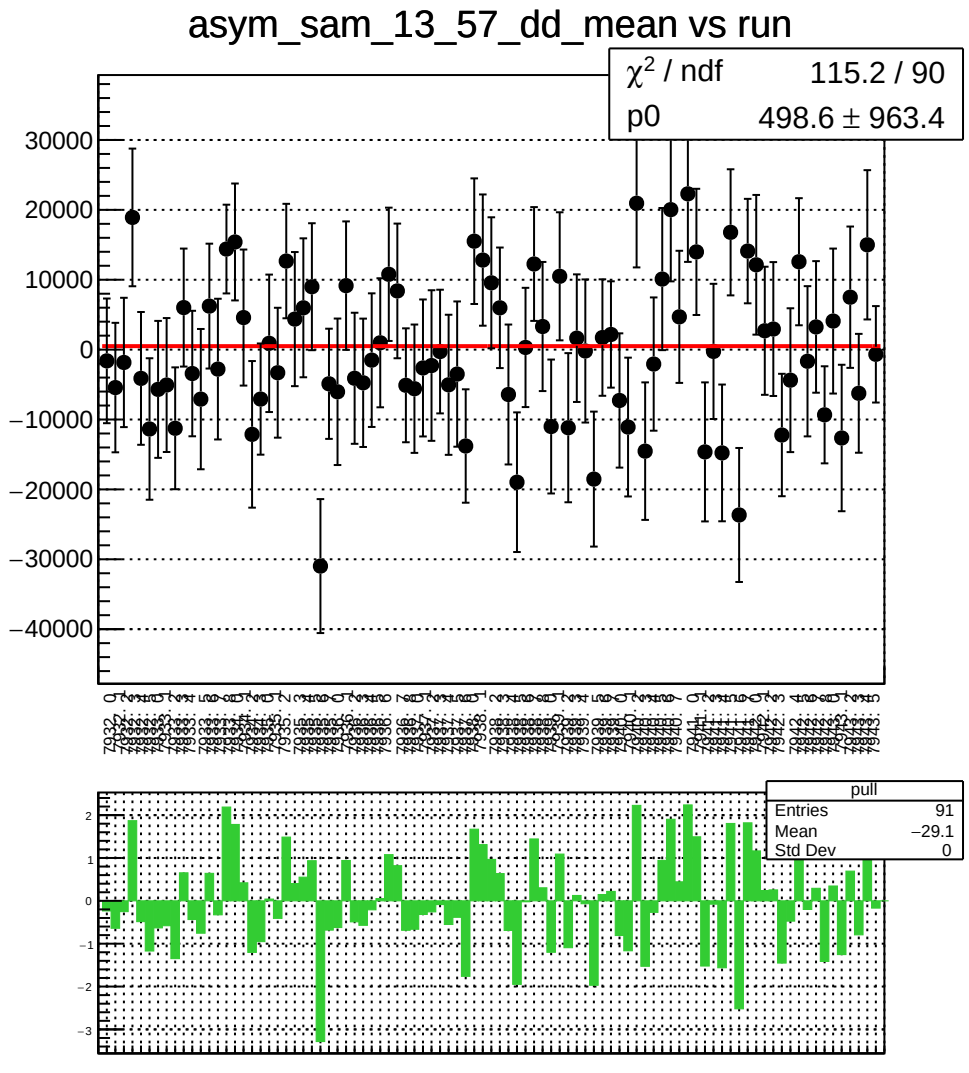

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 7649 / 90
p0 865.3 ± 0.6559
1000
950
900
850
800
750

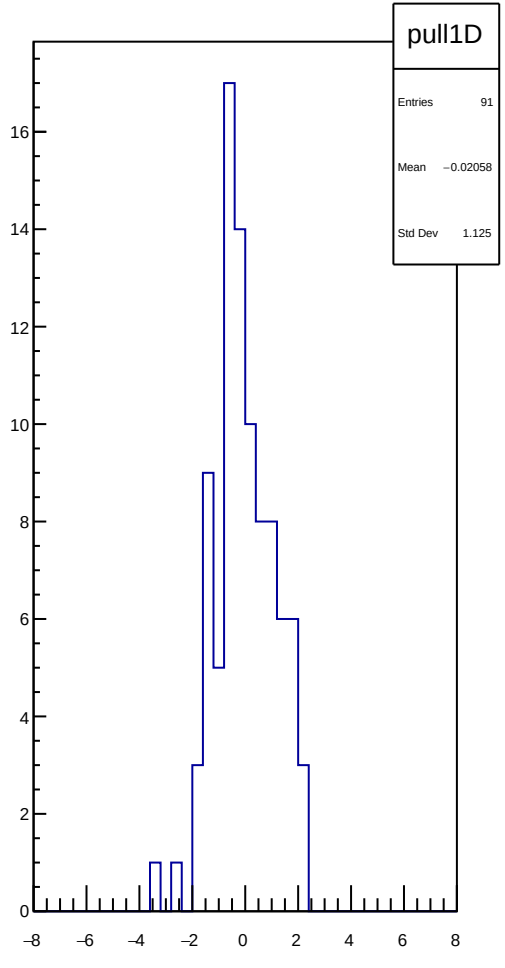

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.54 / 90
p0 245.5 ± 114.8
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 196.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.002137
Std Dev 0.9864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

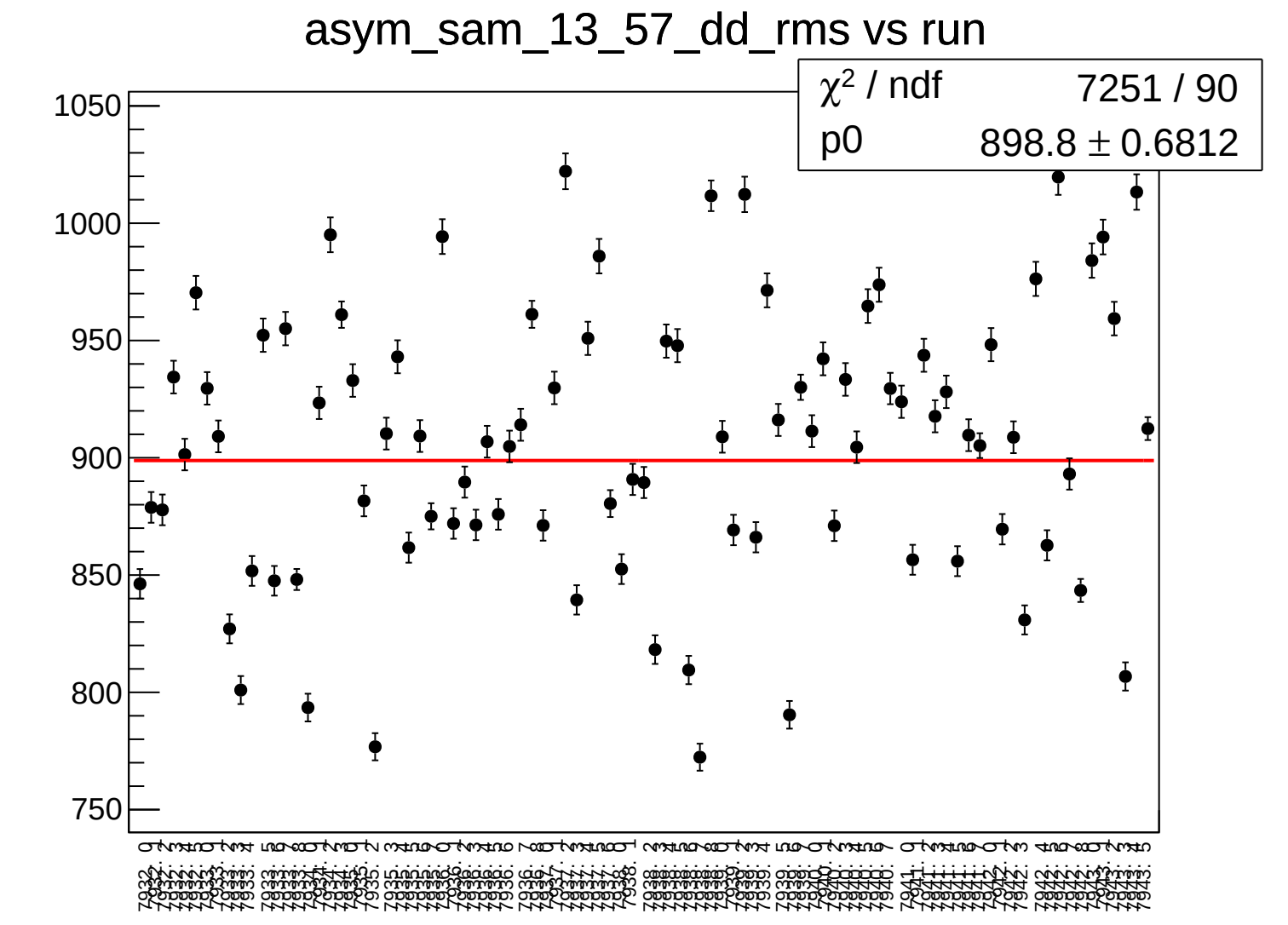

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9182 / 90
p0 107.1 ± 0.08118
140
130
120
110
100
90

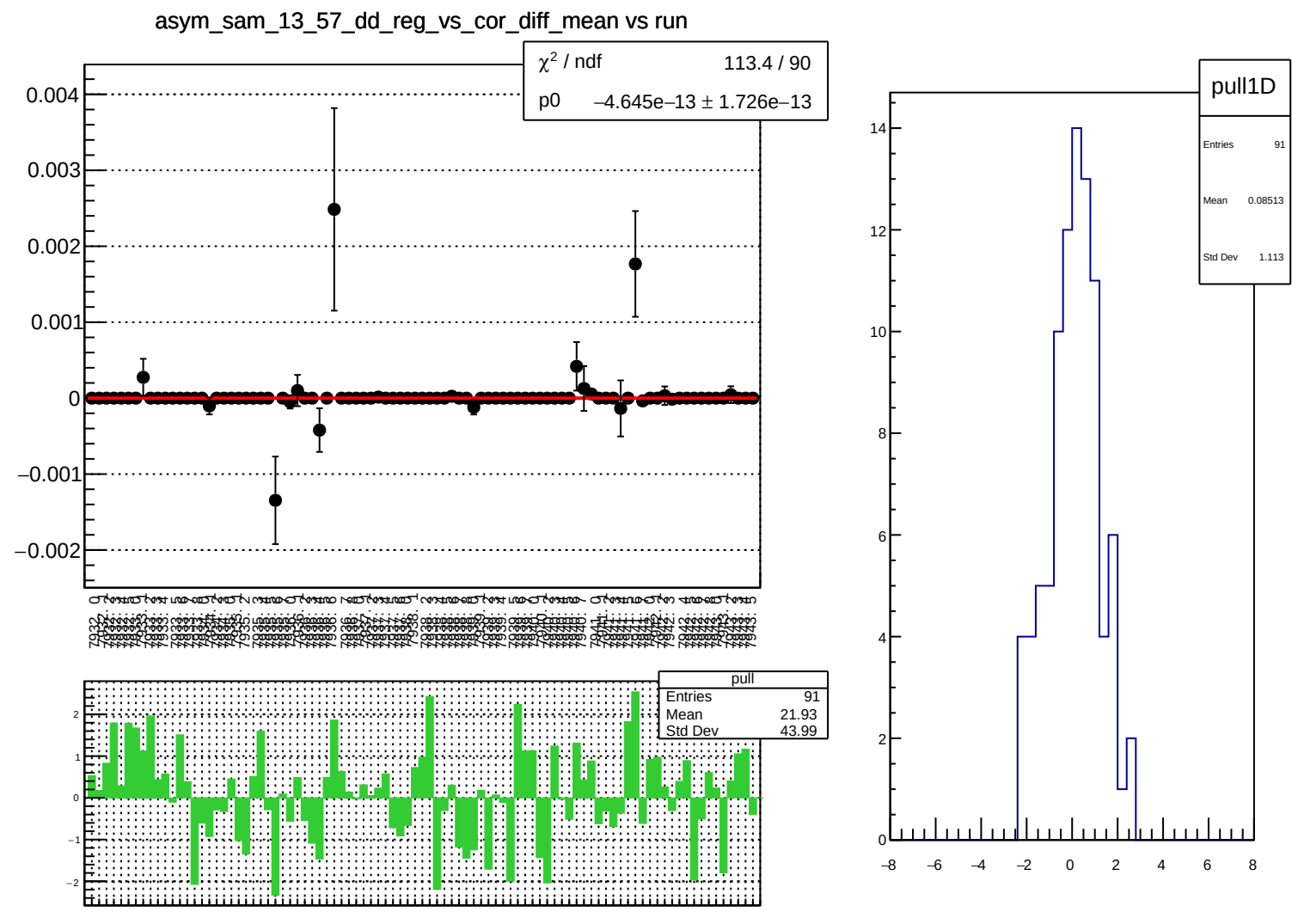

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.9 / 90
p0 −235.8 ± 927.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −27.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.02098
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

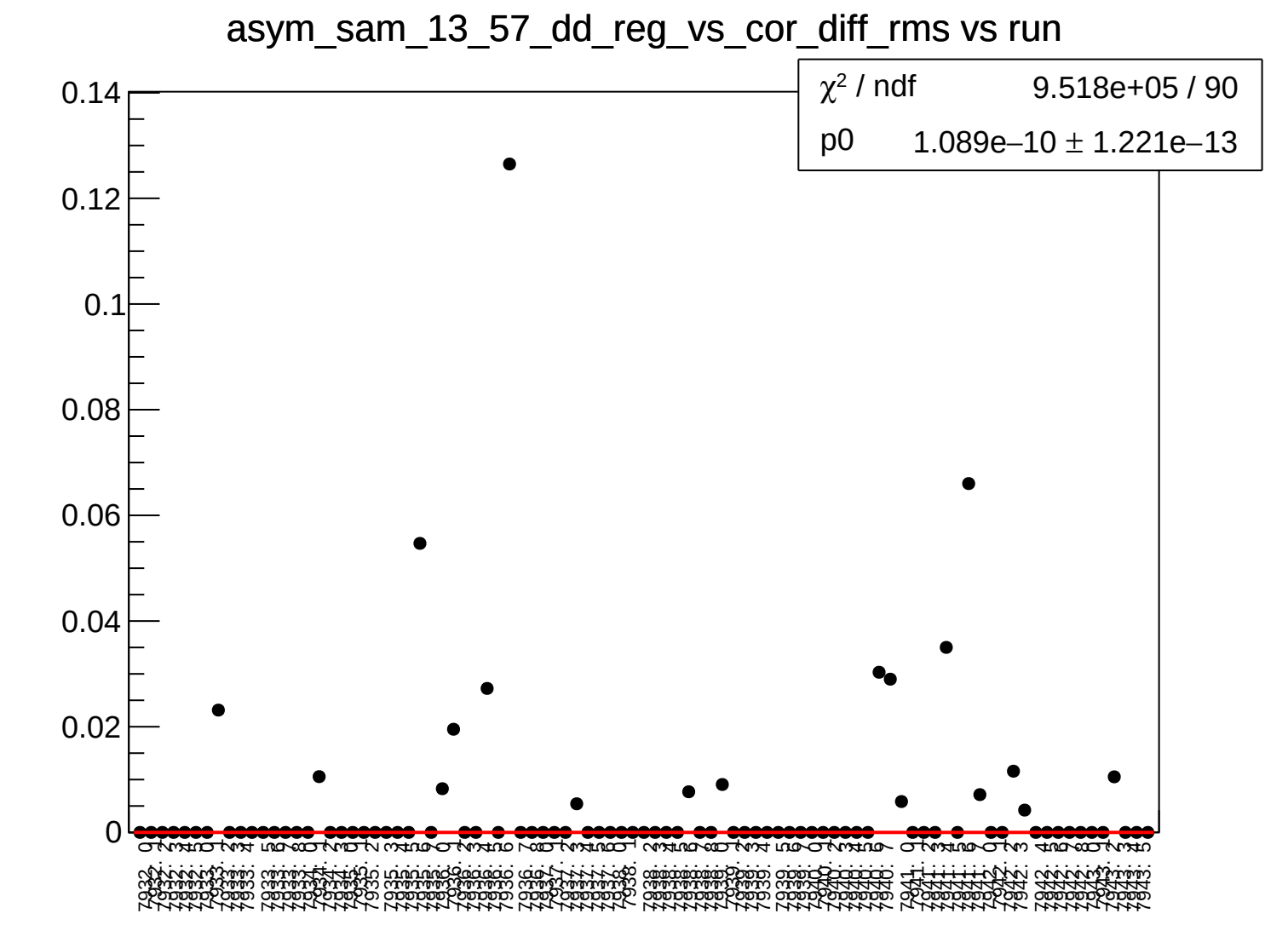

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 7649 / 90
p0 865.3 ± 0.6559
1000
950
900
850
800
750

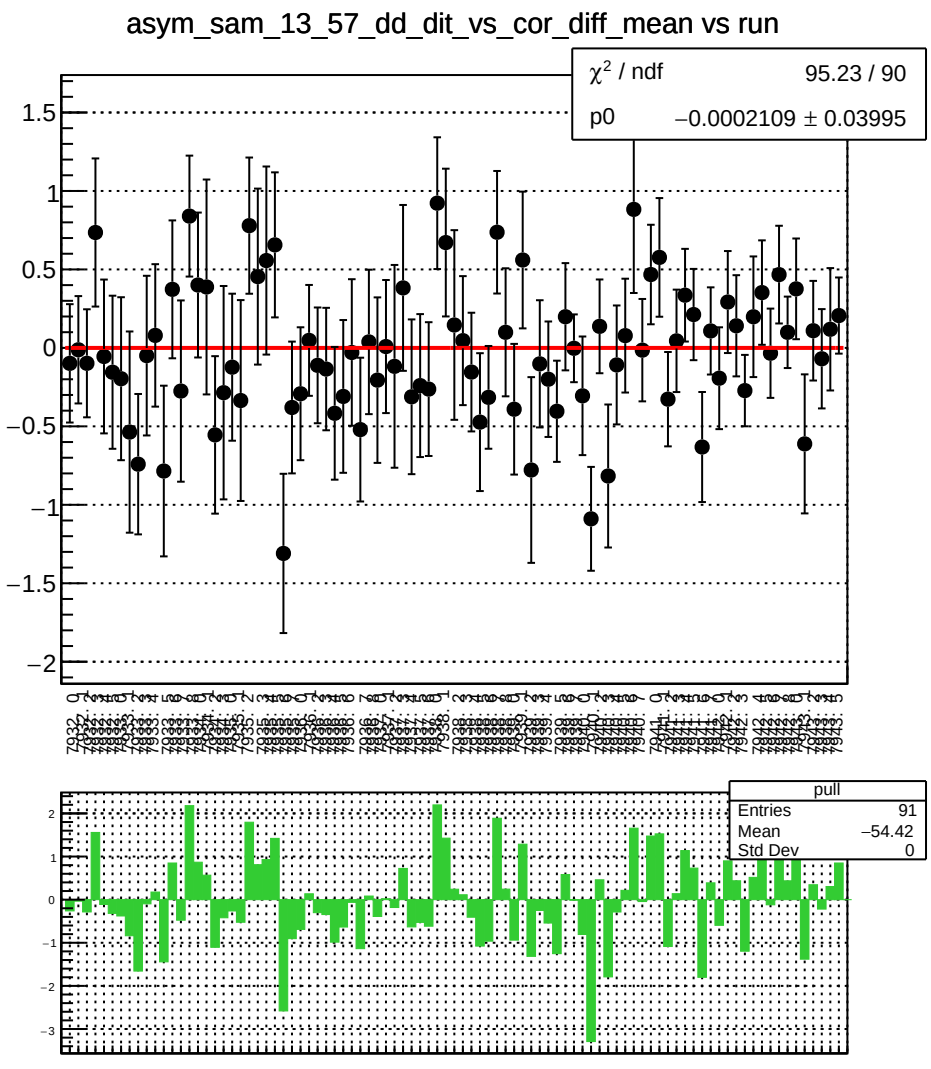

asym_sam_13_57_dd_mean vs run
χ² / ndf 115.2 / 90
p0 498.6 ± 963.4
pull
Entries 91
Mean −29.1
Std Dev 0

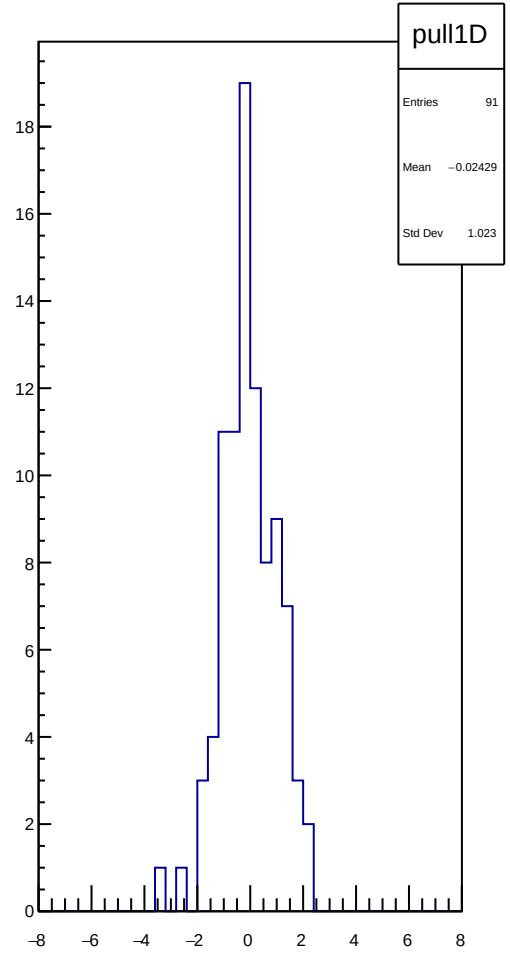

pull1D
Entries 91
Mean −0.02058
Std Dev 1.125

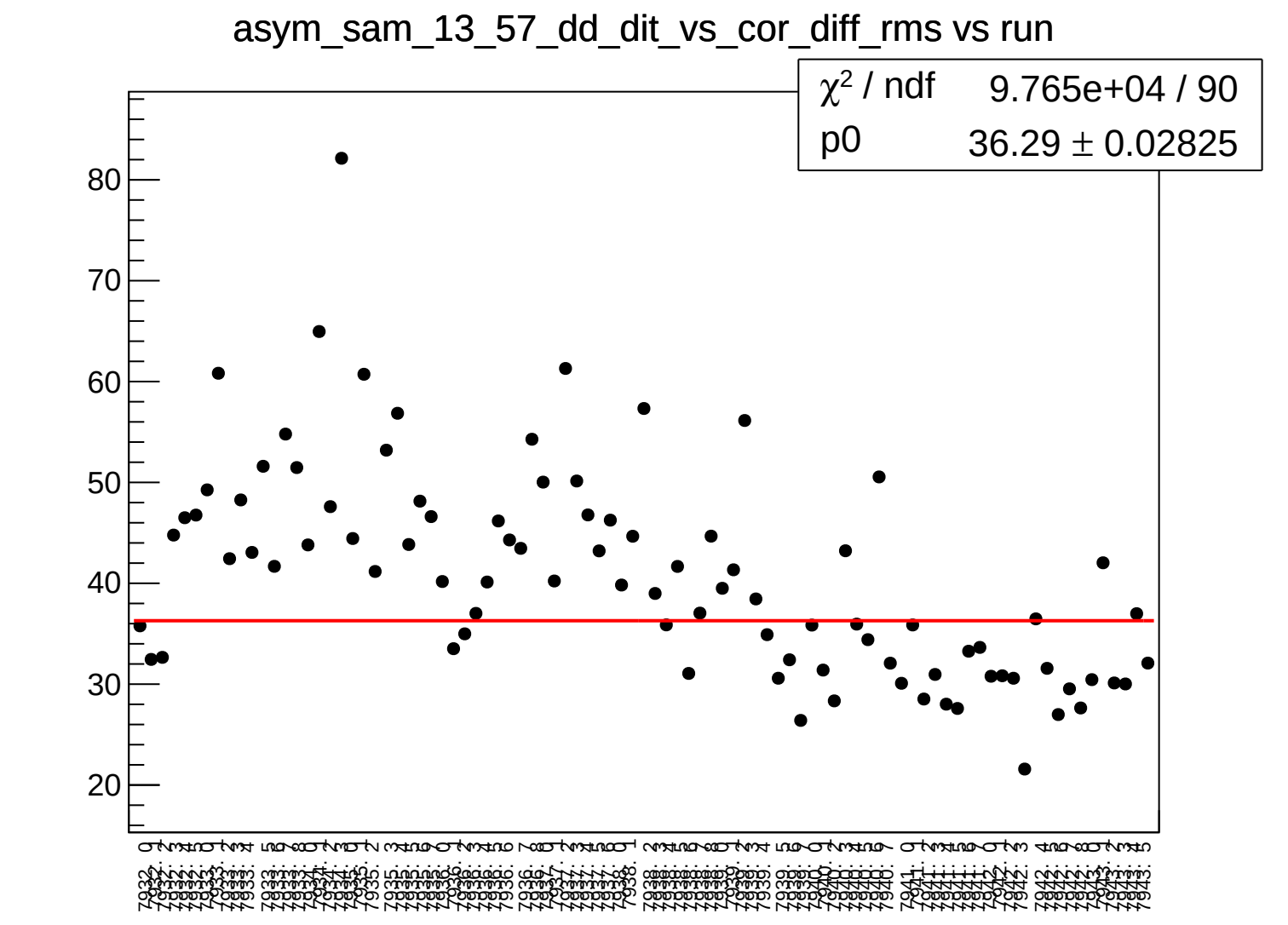

asym_sam_13_57_dd_rms vs run
χ² / ndf 7251 / 90
p0 898.8 ± 0.6812
1050
1000
950
900
850
800
750

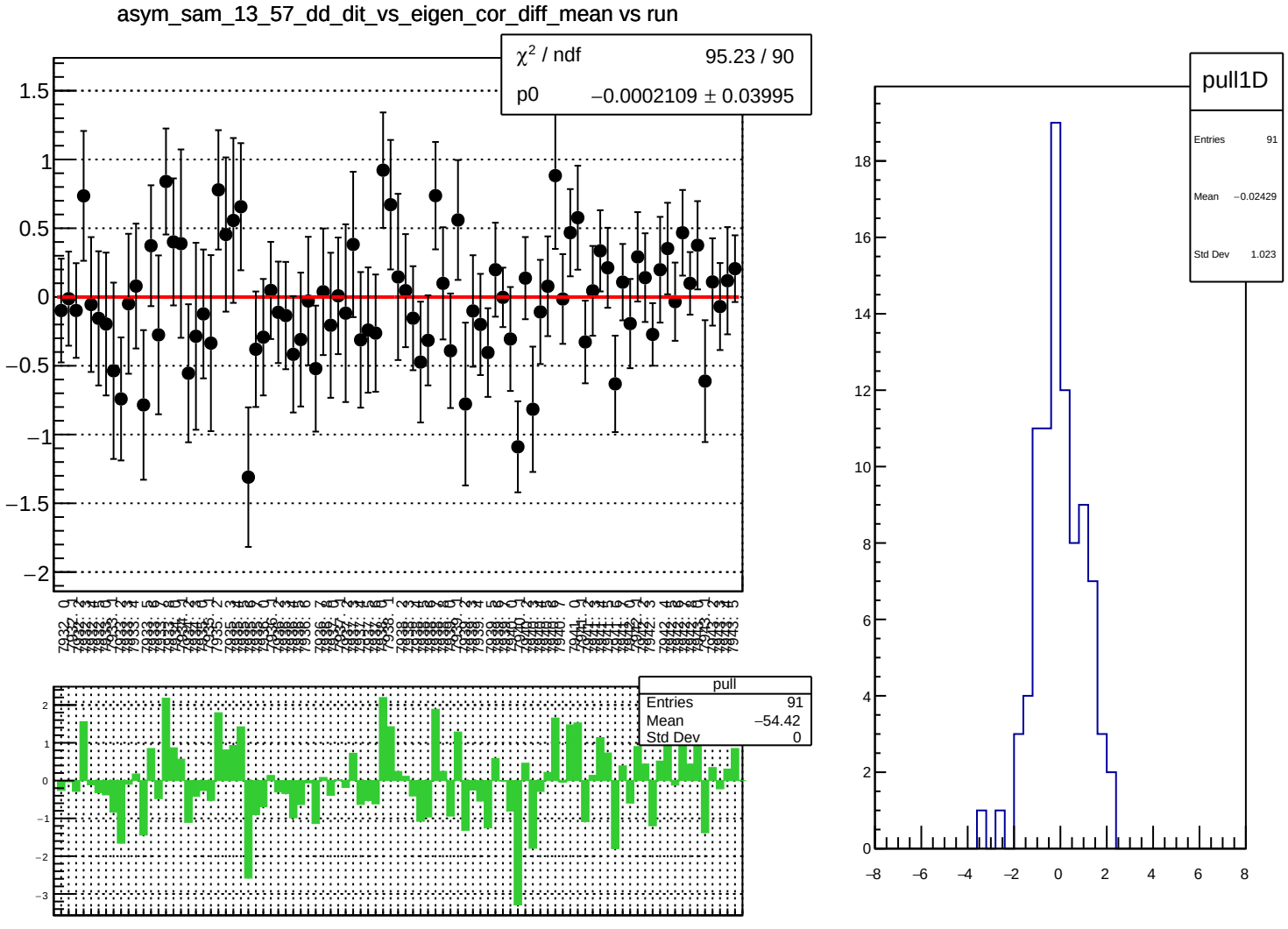

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 90
p0 −4.645e−13 ± 1.726e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 21.93
Std Dev 43.99
pull1D
Entries 91
Mean 0.08513
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

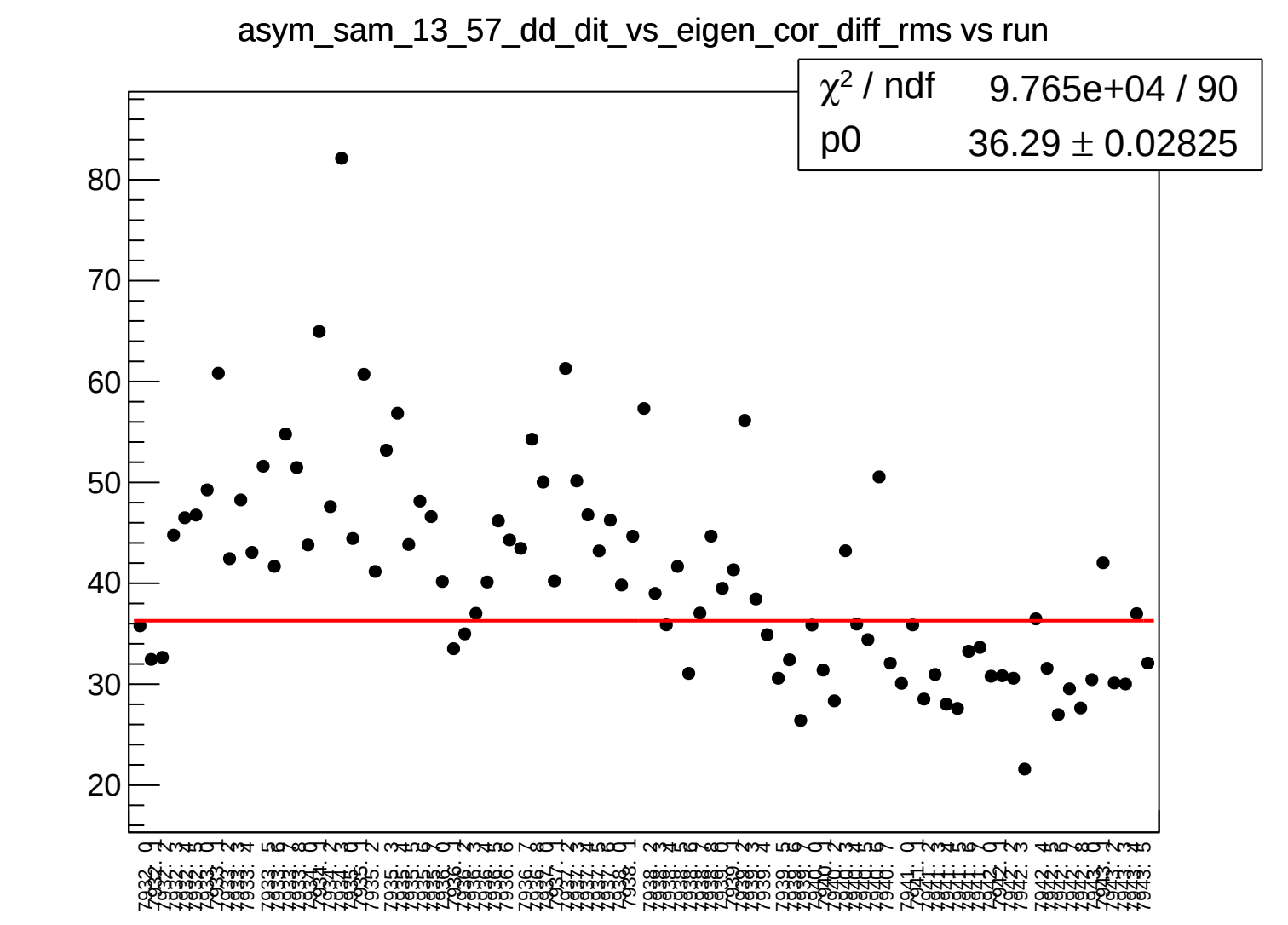

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.518e+05 / 90
p0 1.089e−10 ± 1.221e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

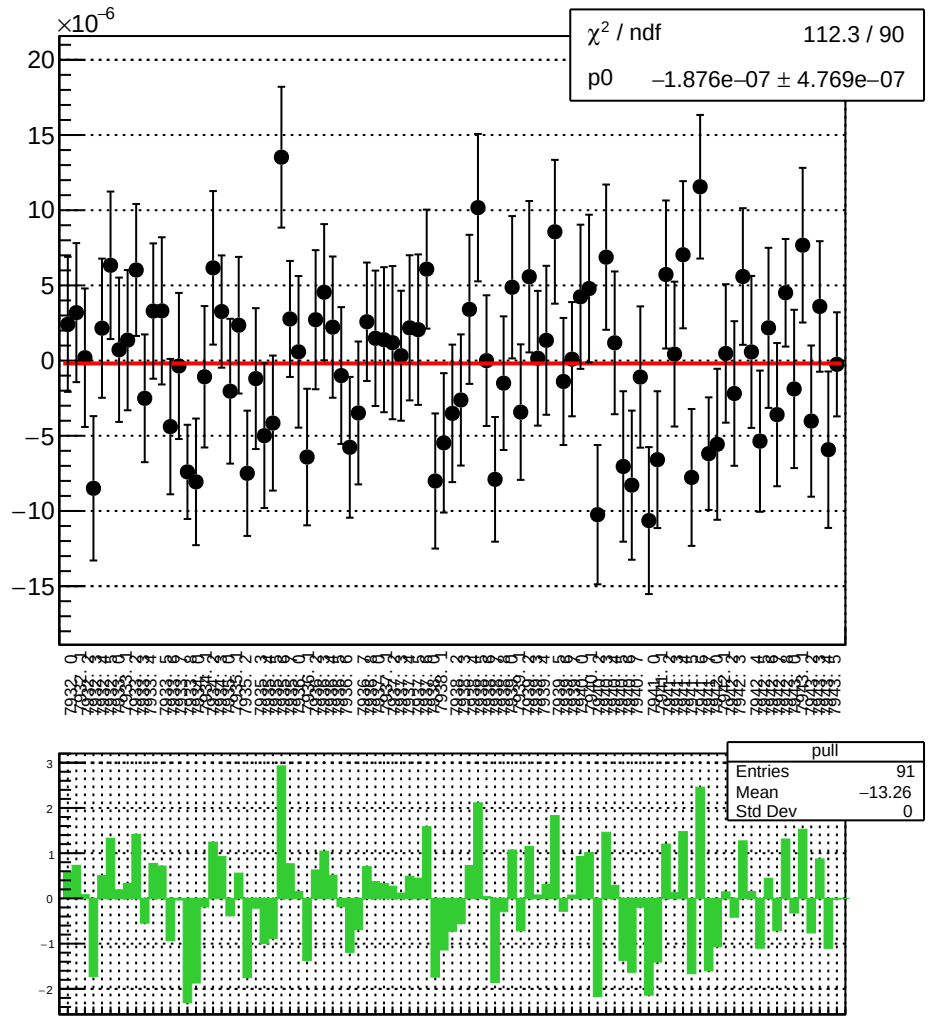

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.23 / 90
p0 −0.0002109 ± 0.03995
pull
Entries 91
Mean −54.42
Std Dev 0

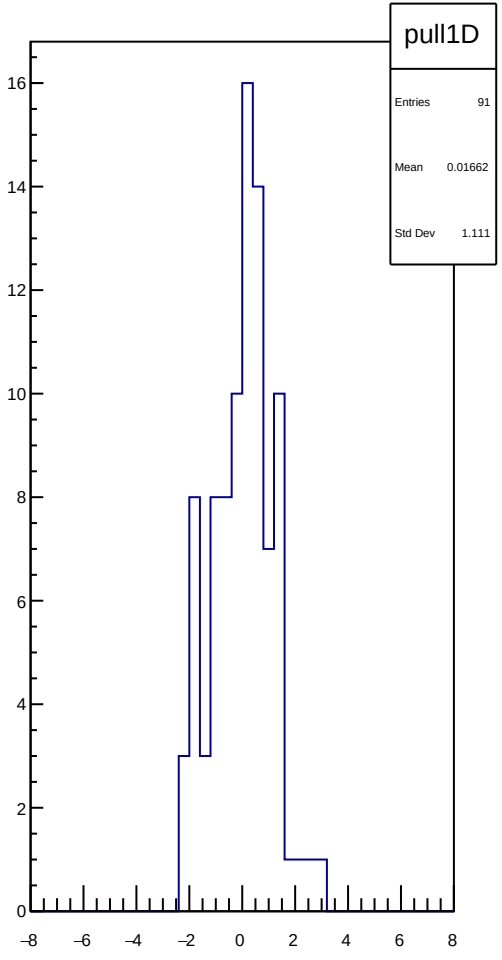

pull1D
Entries 91
Mean −0.02429
Std Dev 1.023

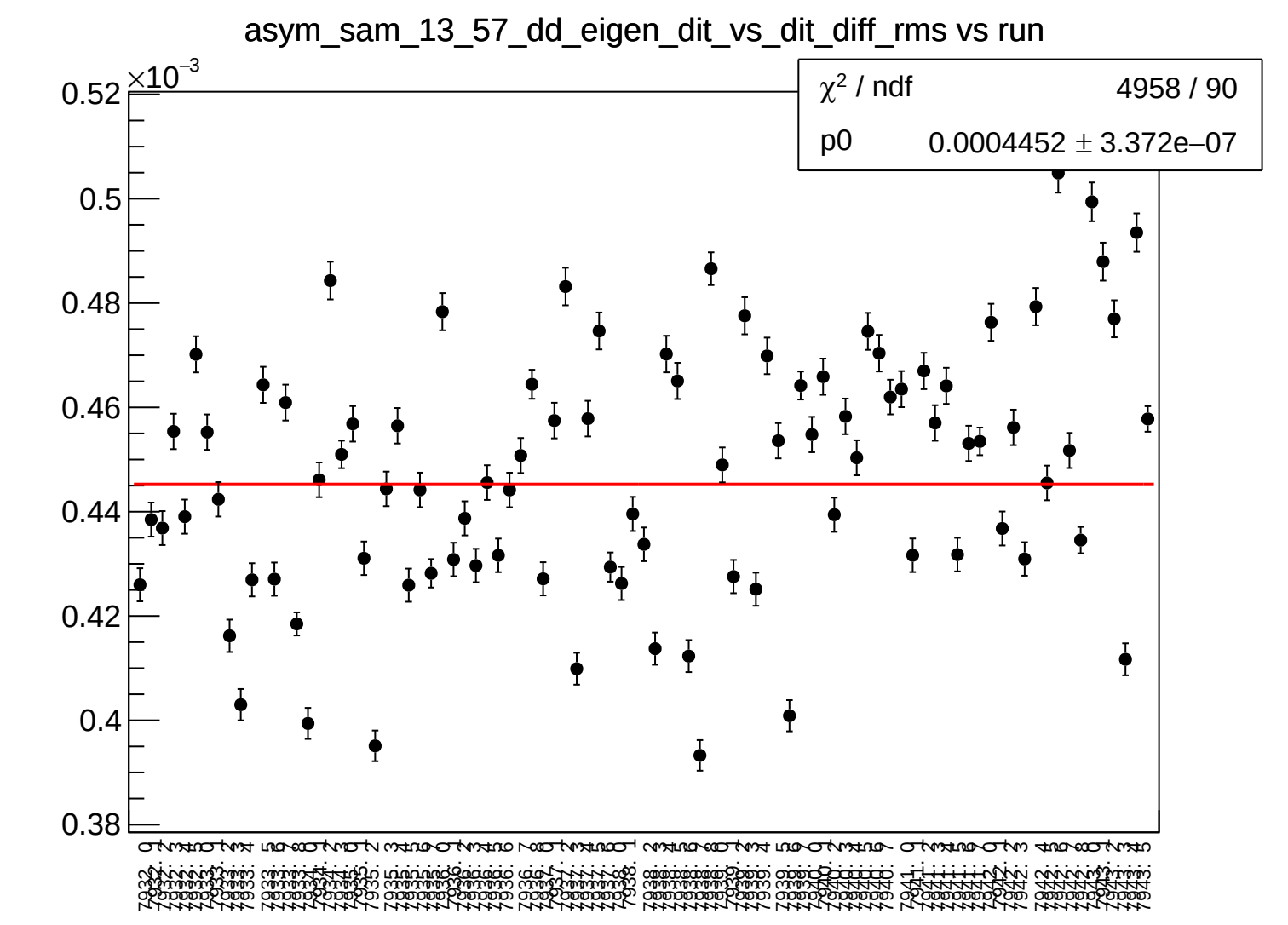

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.765e+04 / 90
p0 36.29 ± 0.02825
80
70
60
50
40
30
20

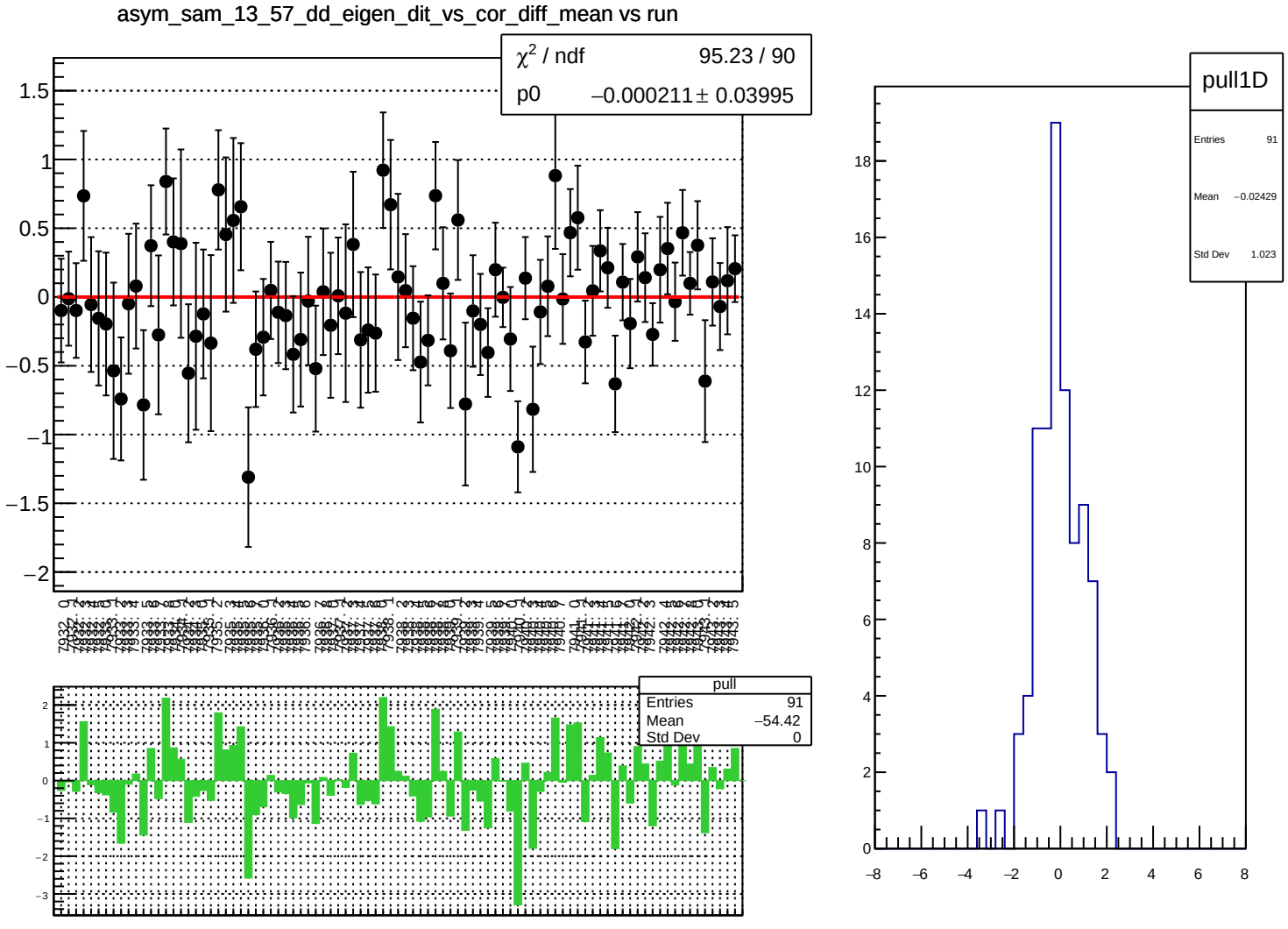

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.23 / 90
p0 −0.0002109 ± 0.03995
pull
Entries 91
Mean −54.42
Std Dev 0
pull1D
Entries 91
Mean −0.02429
Std Dev 1.023

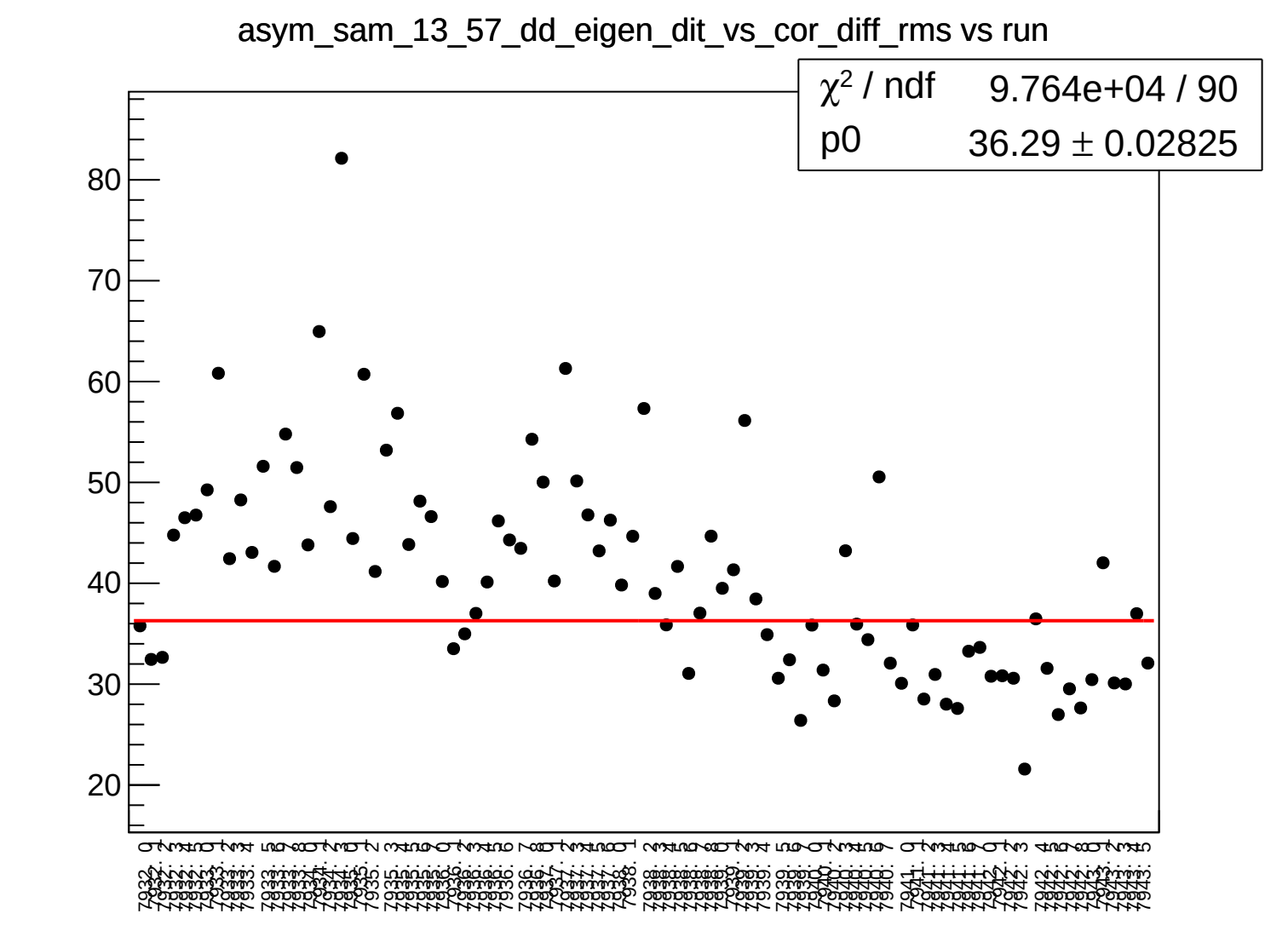

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.765e+04 / 90
p0 36.29 ± 0.02825
80
70
60
50
40
30
20

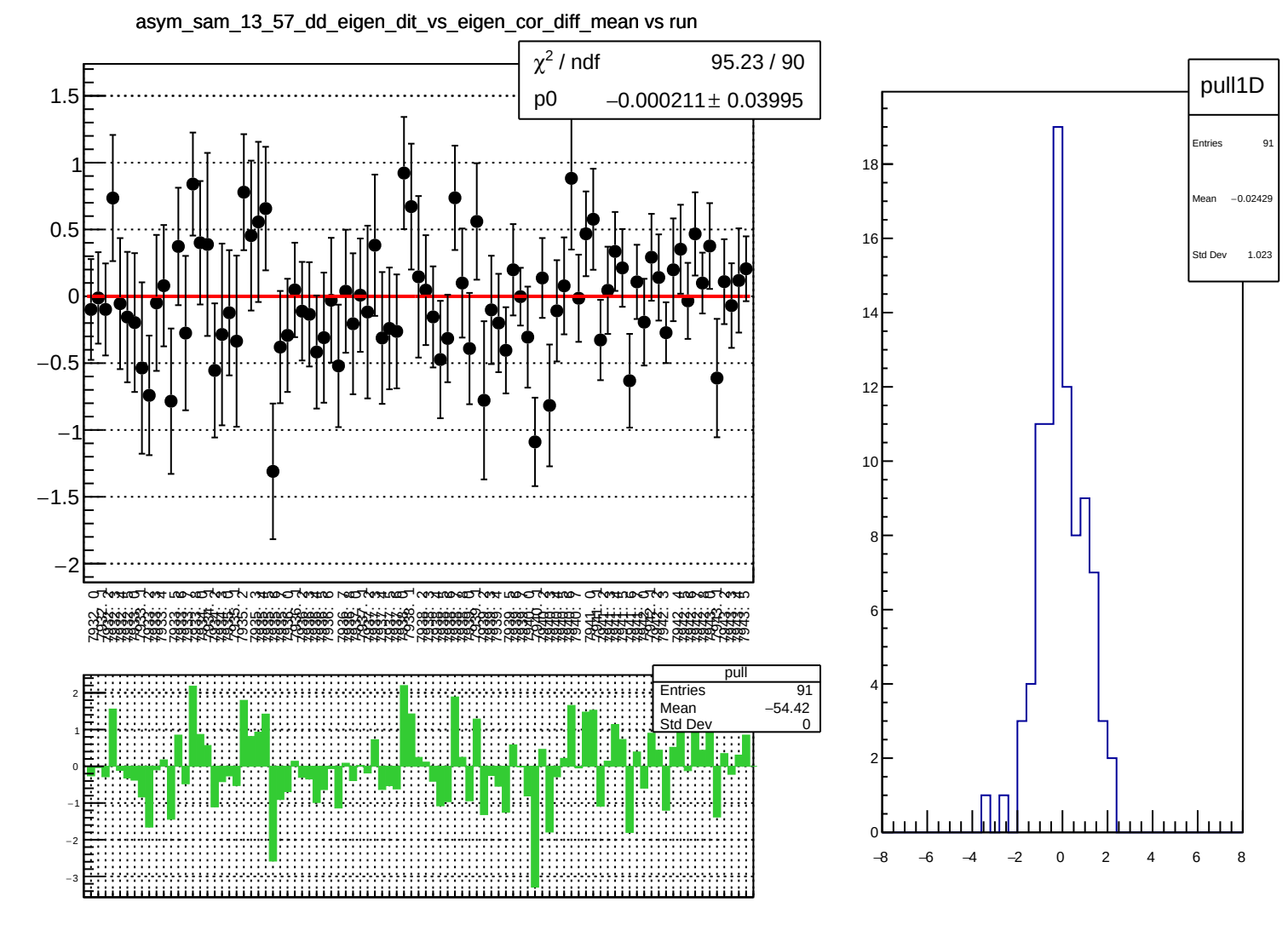

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 112.3 / 90
p0 −1.876e−07 ± 4.769e−07
pull
Entries 91
Mean −13.26
Std Dev 0

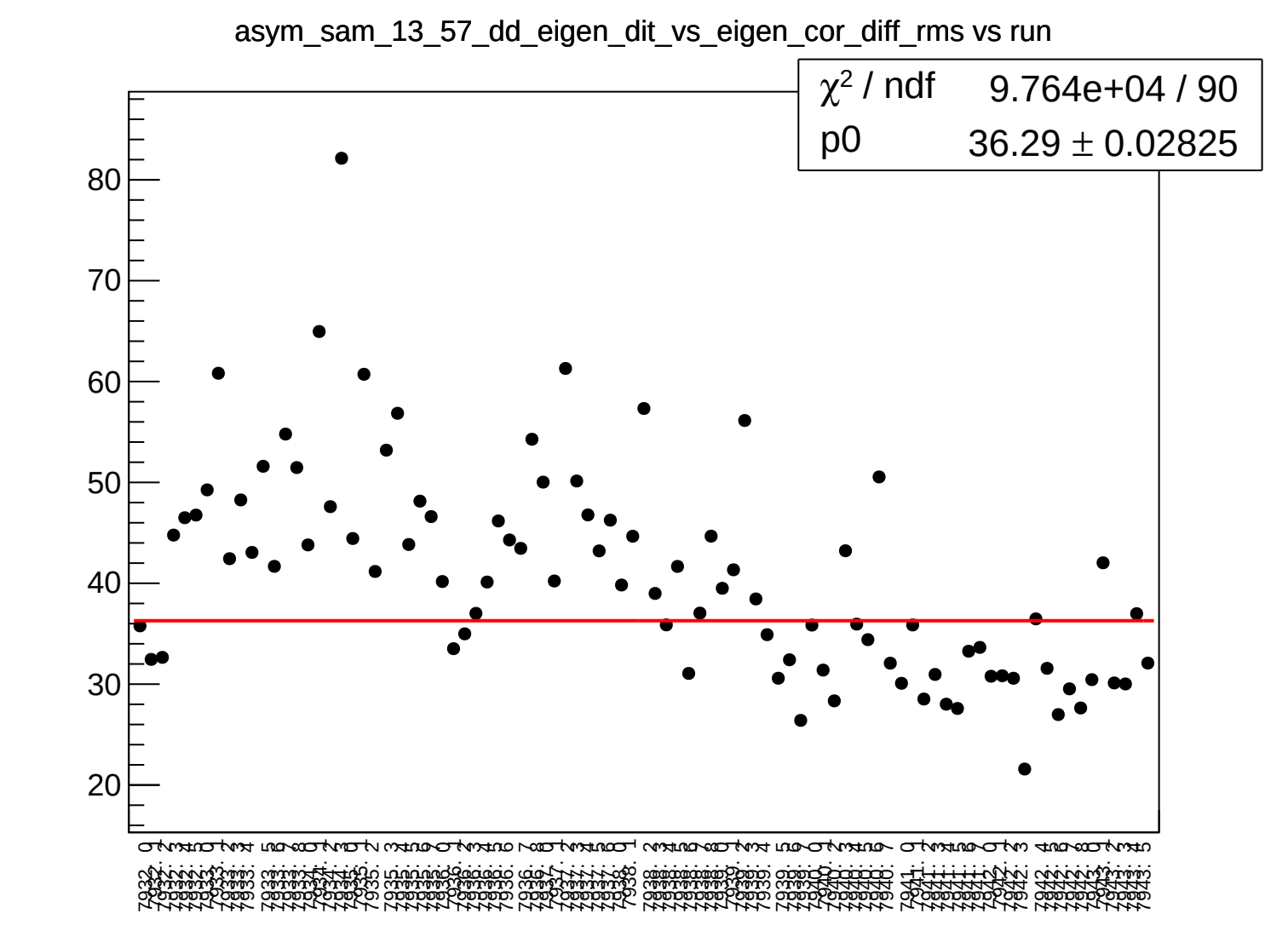

pull1D
Entries 91
Mean 0.01662
Std Dev 1.111

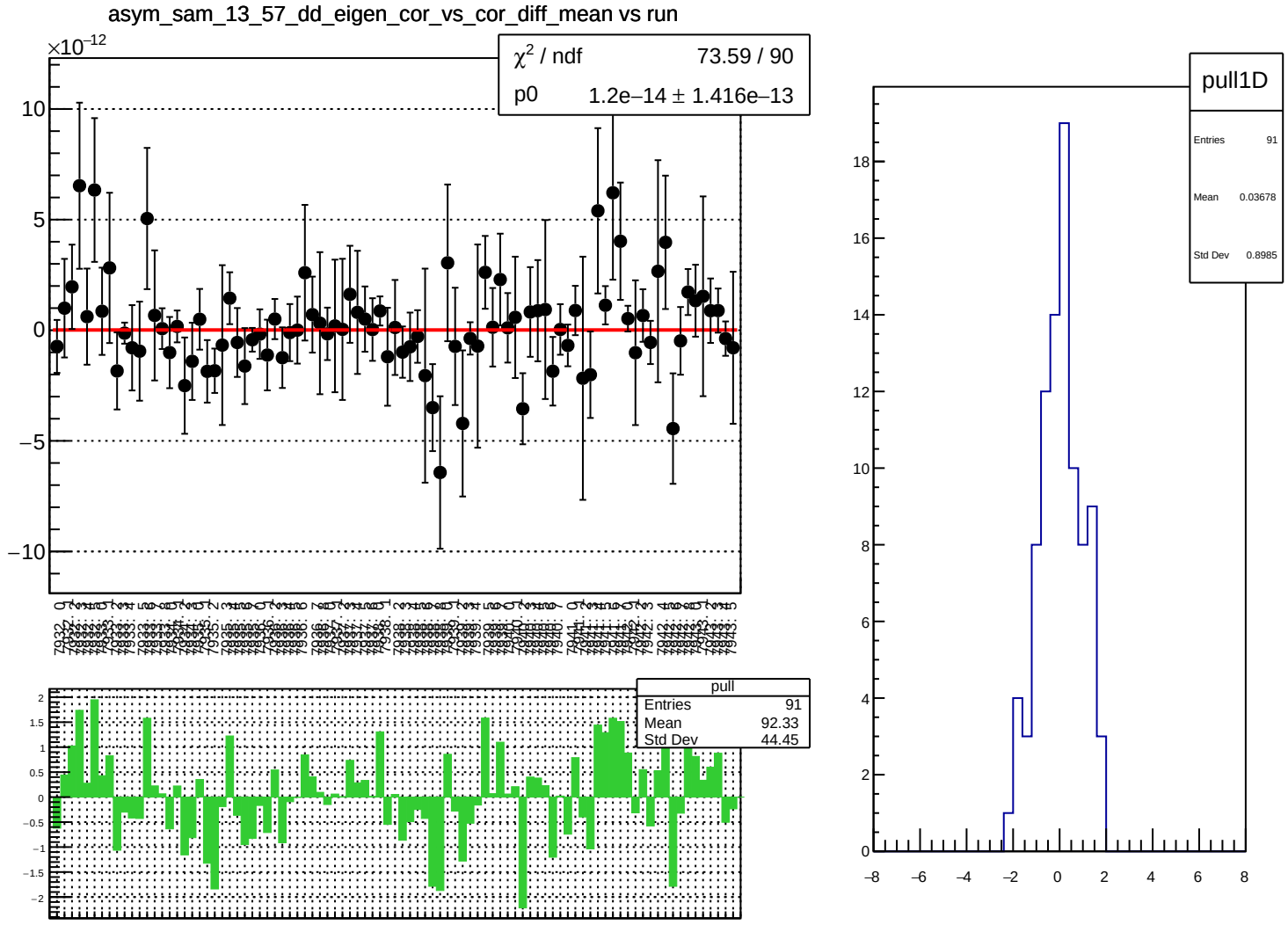

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
χ² / ndf 4958 / 90
p0 0.0004452 ± 3.372e−07

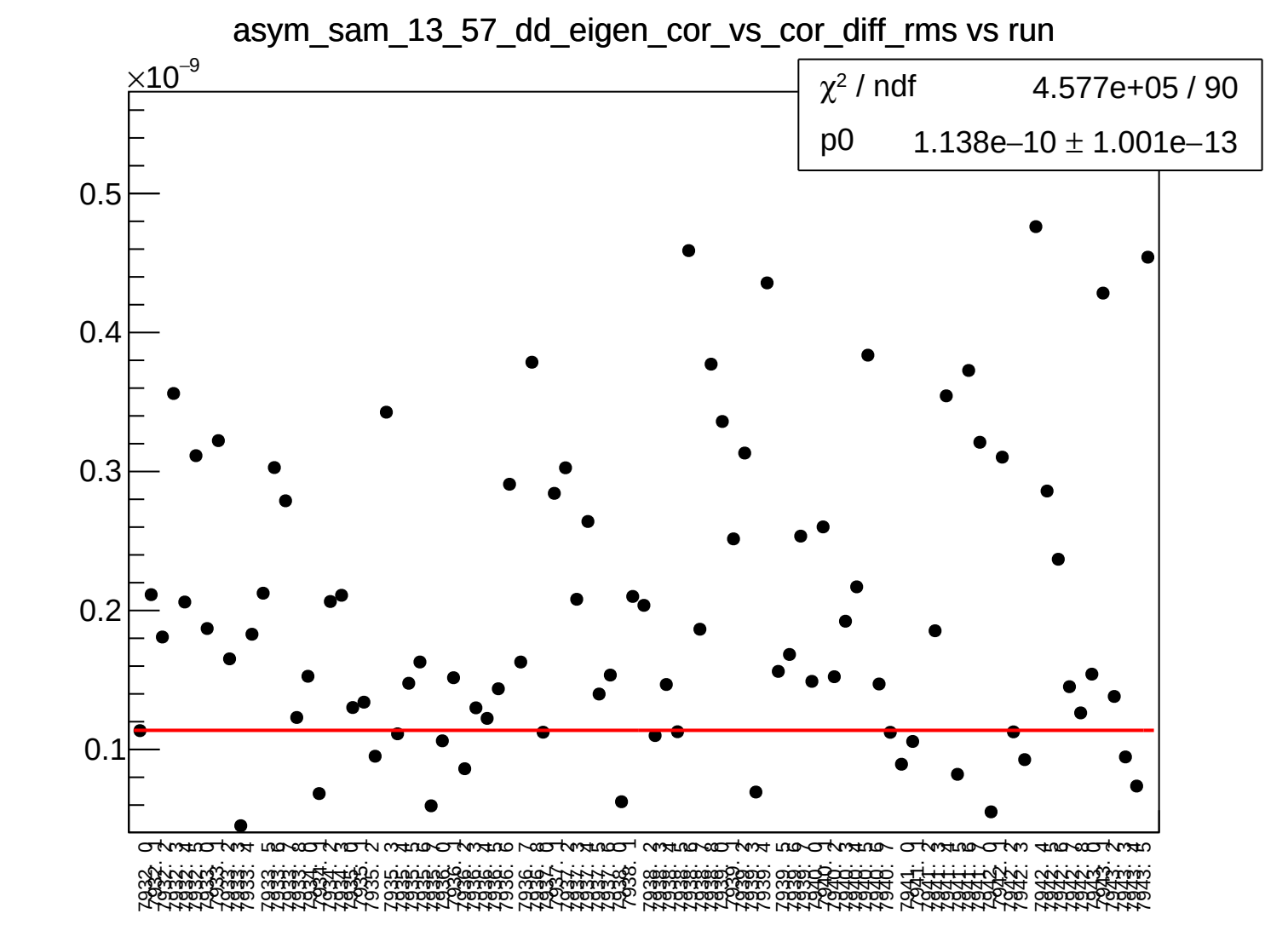

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.23 / 90
p0 −0.000211 ± 0.03995
pull
Entries 91
Mean −54.42
Std Dev 0
pull1D
Entries 91
Mean −0.02429
Std Dev 1.023

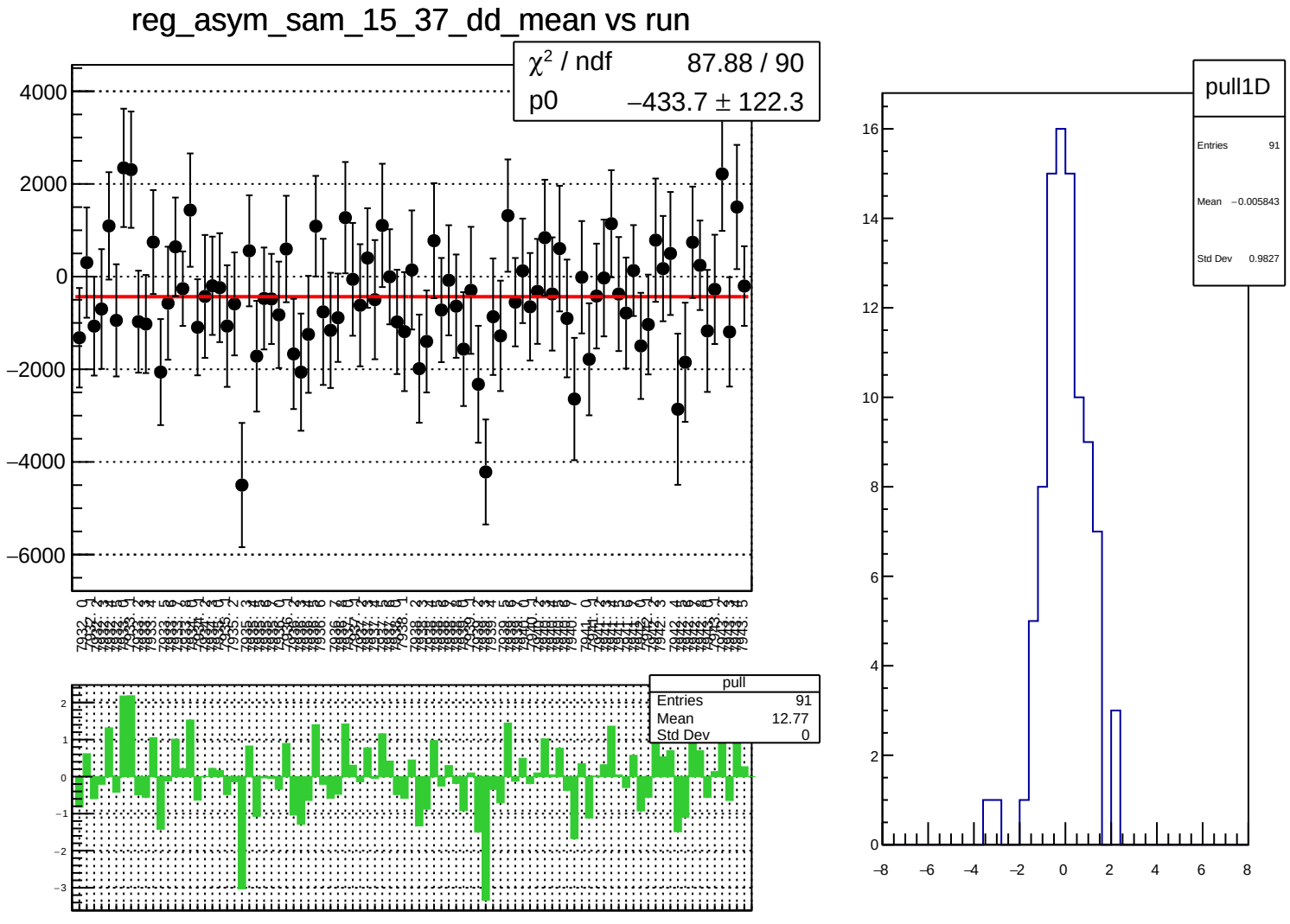

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.764e+04 / 90
p0 36.29 ± 0.02825
80
70
60
50
40
30
20

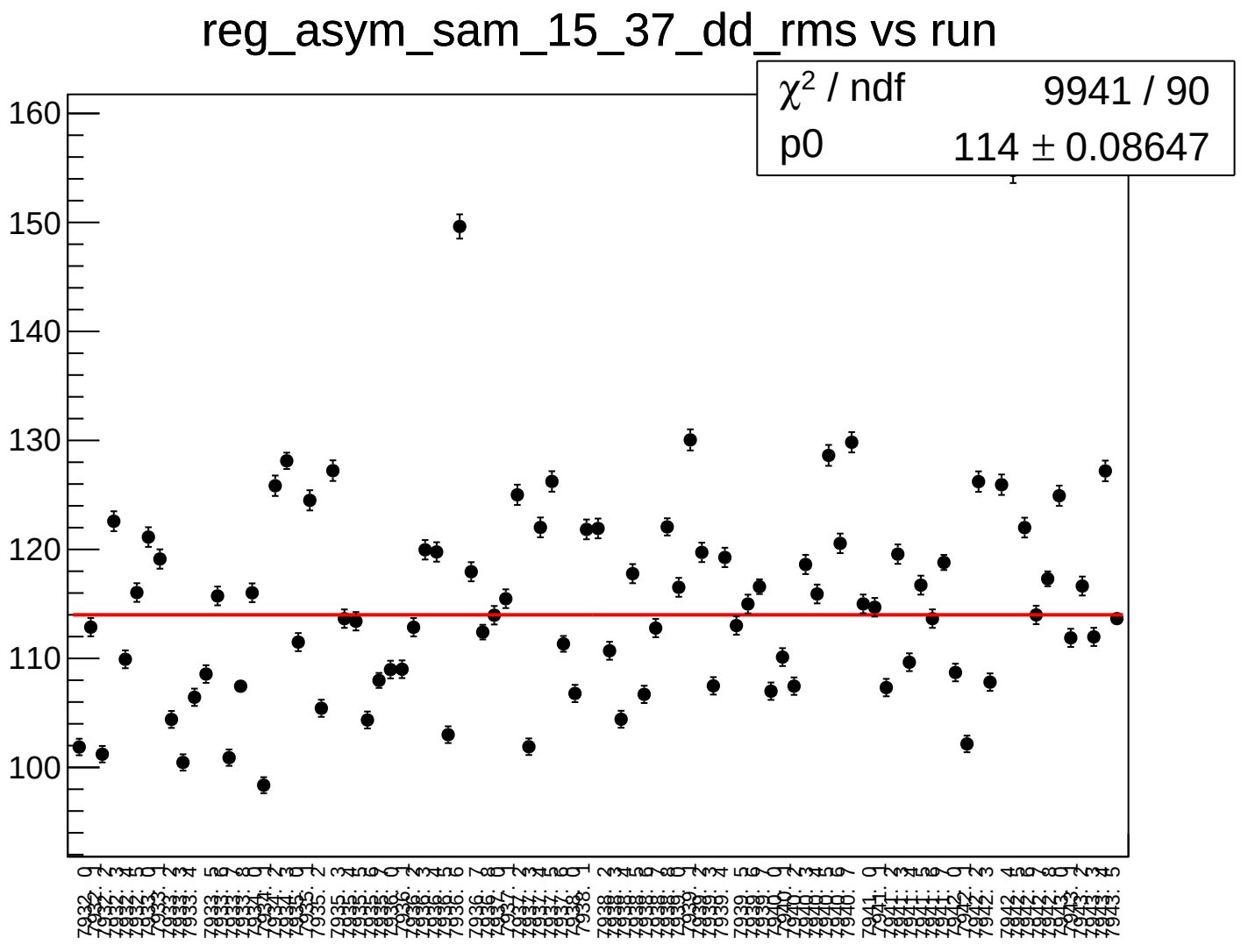

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.23 / 90
p0 −0.000211 ± 0.03995
pull
Entries 91
Mean −54.42
Std Dev 0
pull1D
Entries 91
Mean −0.02429
Std Dev 1.023

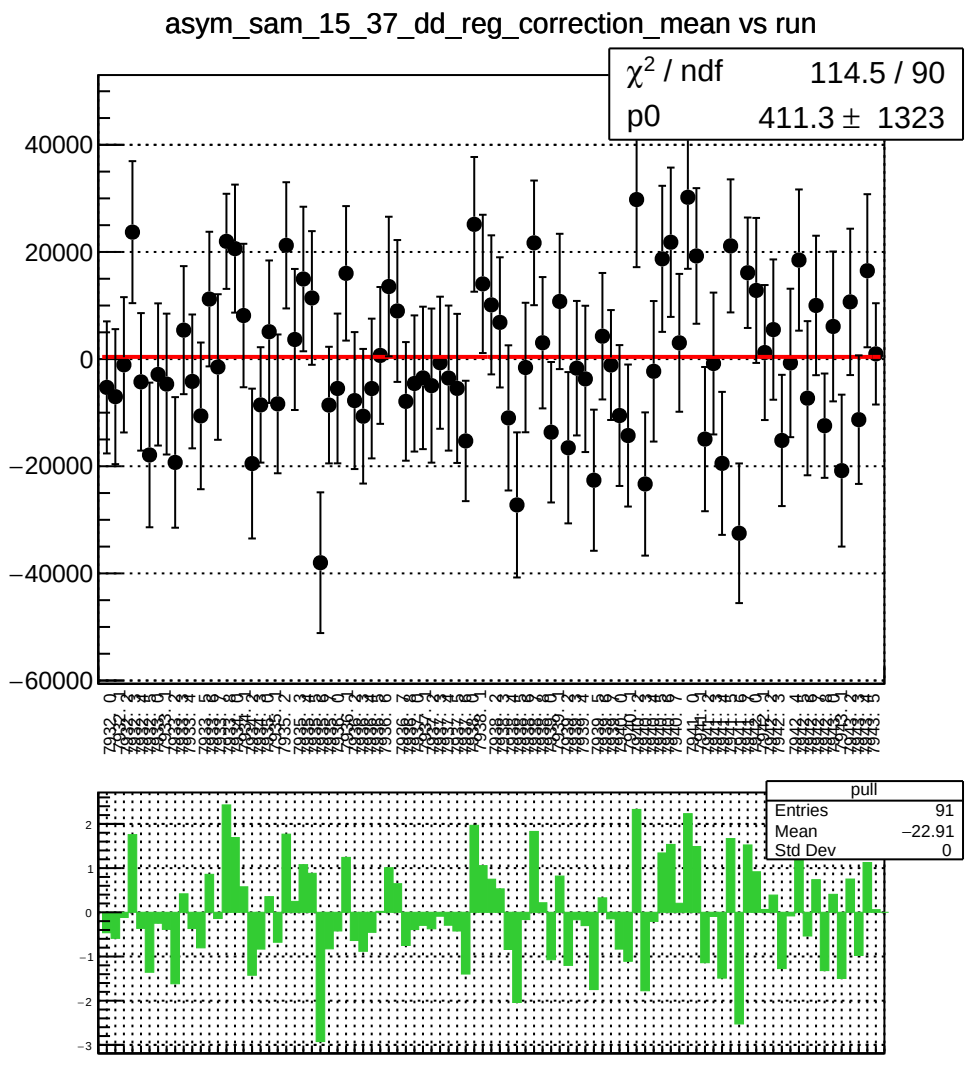

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.764e+04 / 90
p0 36.29 ± 0.02825
80
70
60
50
40
30
20

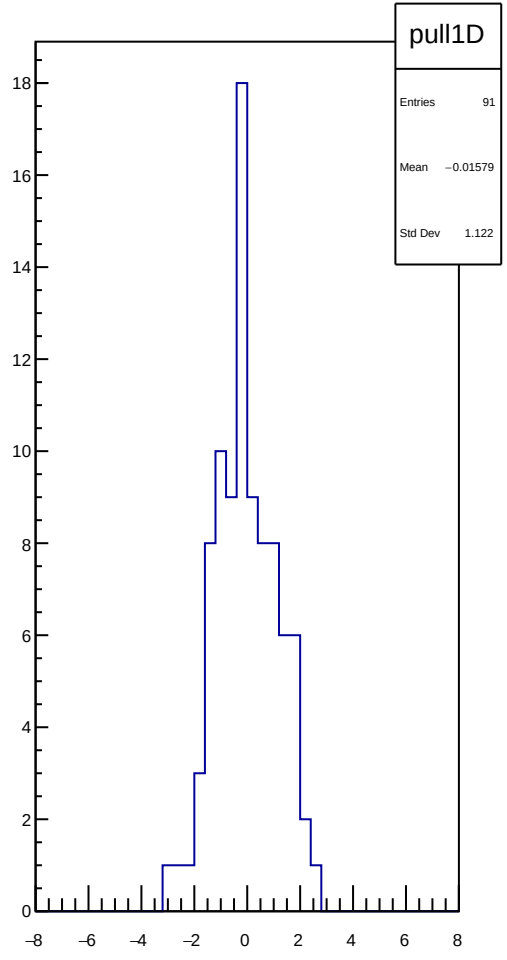

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.59 / 90
p0 1.2e−14 ± 1.416e−13
pull
Entries 91
Mean 92.33
Std Dev 44.45
pull1D
Entries 91
Mean 0.03678
Std Dev 0.8985

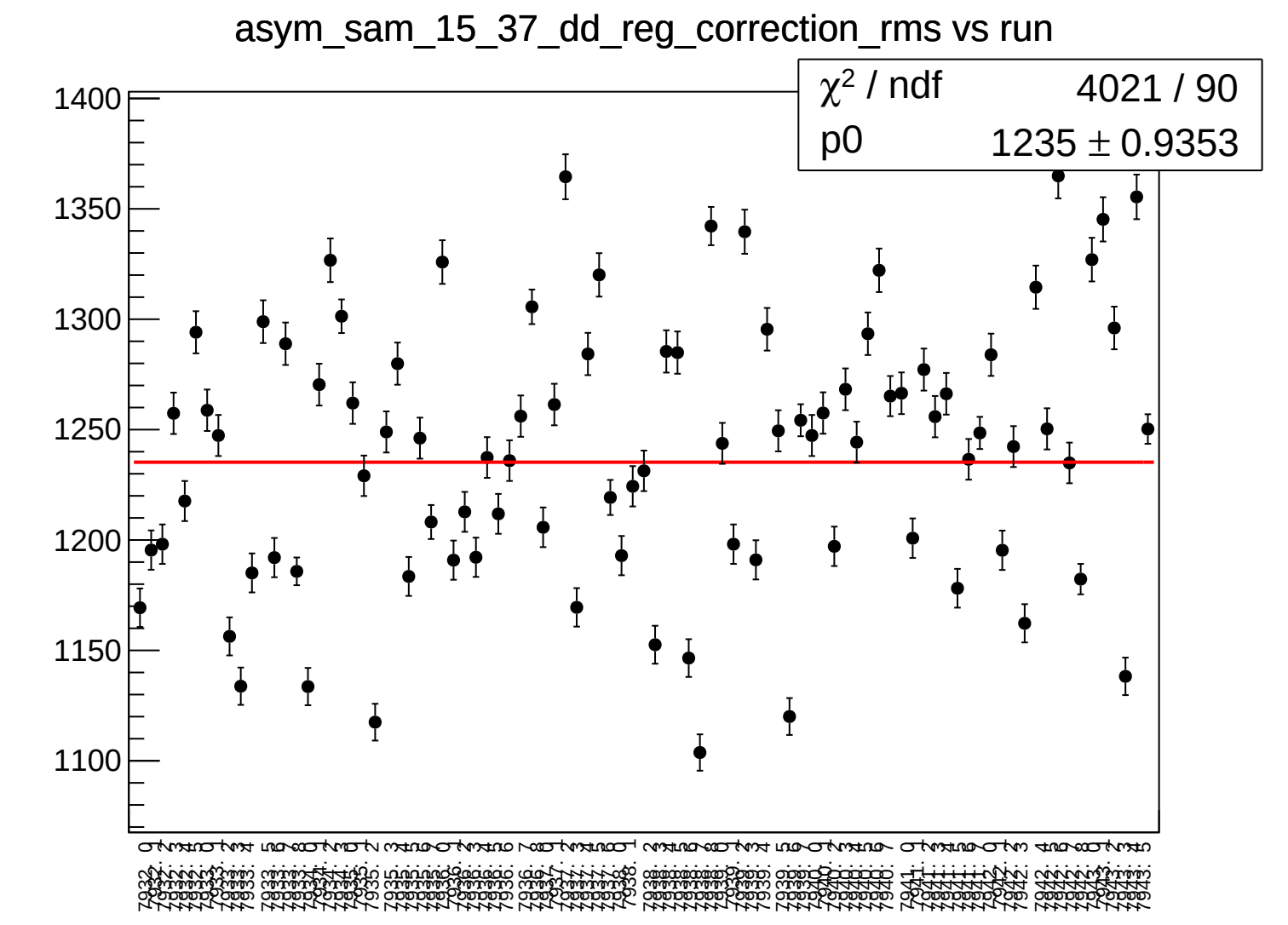

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.577e+05 / 90
p0 1.138e−10 ± 1.001e−13
0.5
0.4
0.3
0.2
0.1

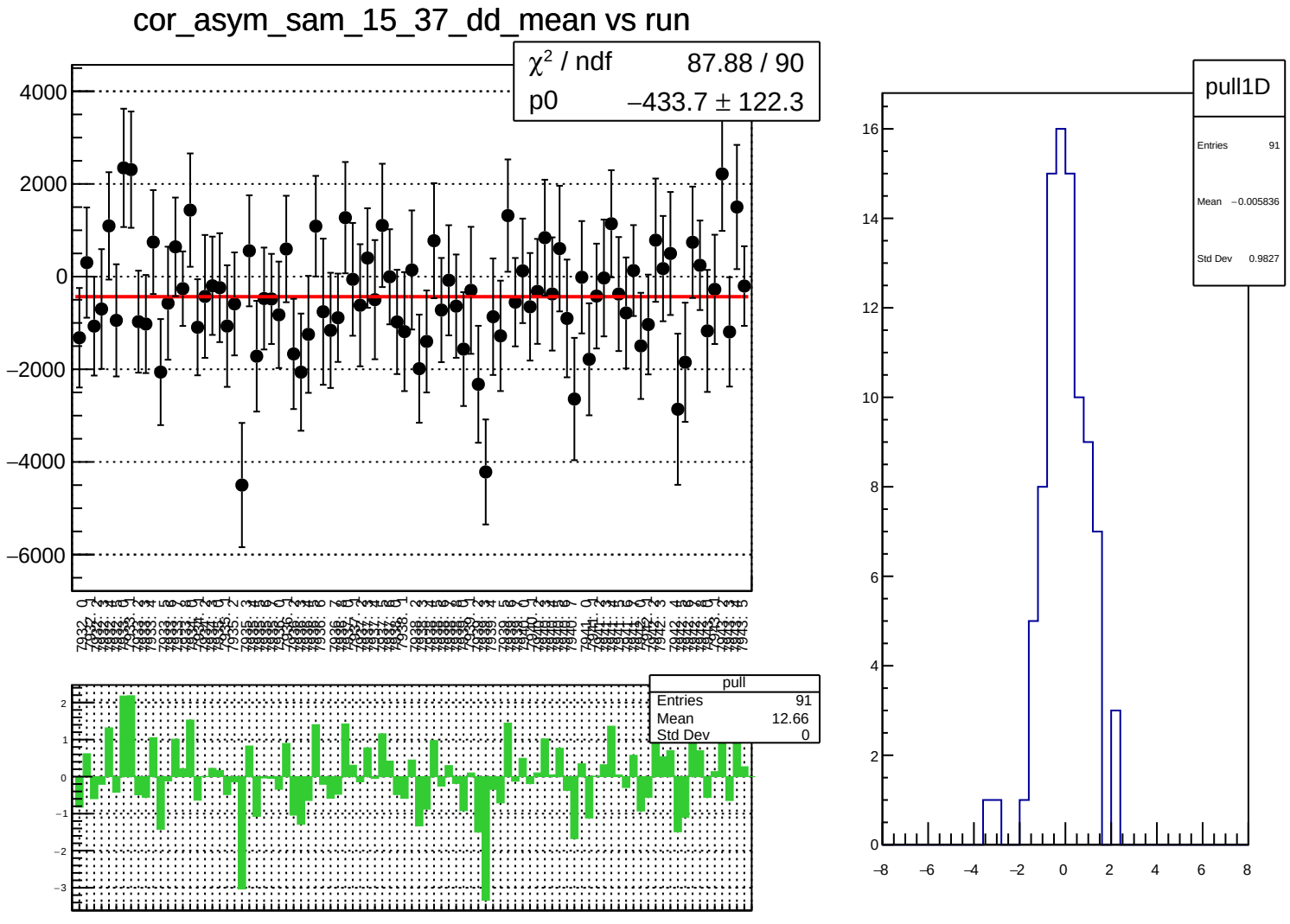

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 87.88 / 90
p0 −433.7 ± 122.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 12.77
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.005843
Std Dev 0.9827
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

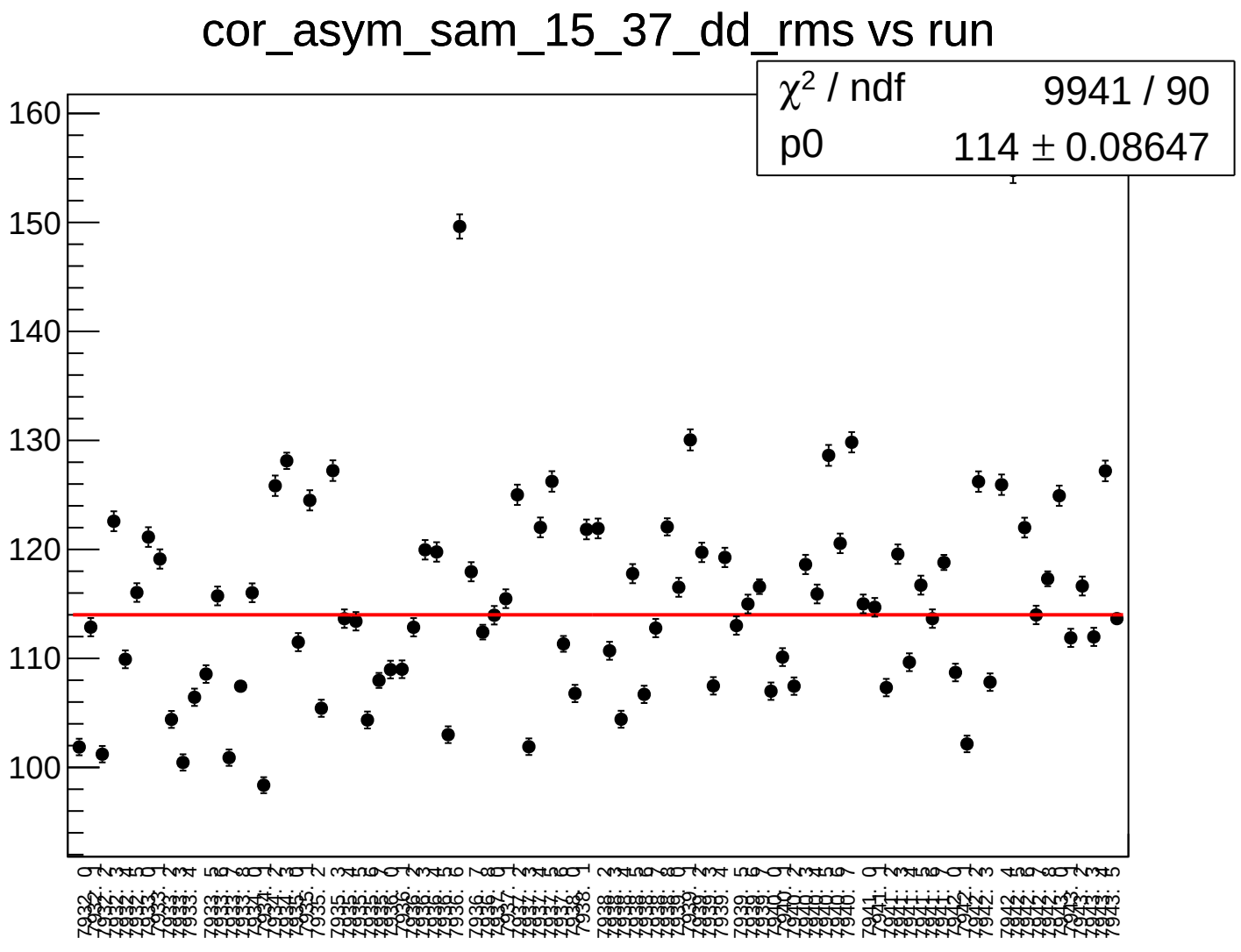

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 9941 / 90
p0 114 ± 0.08647
160
150
140
130
120
110
100

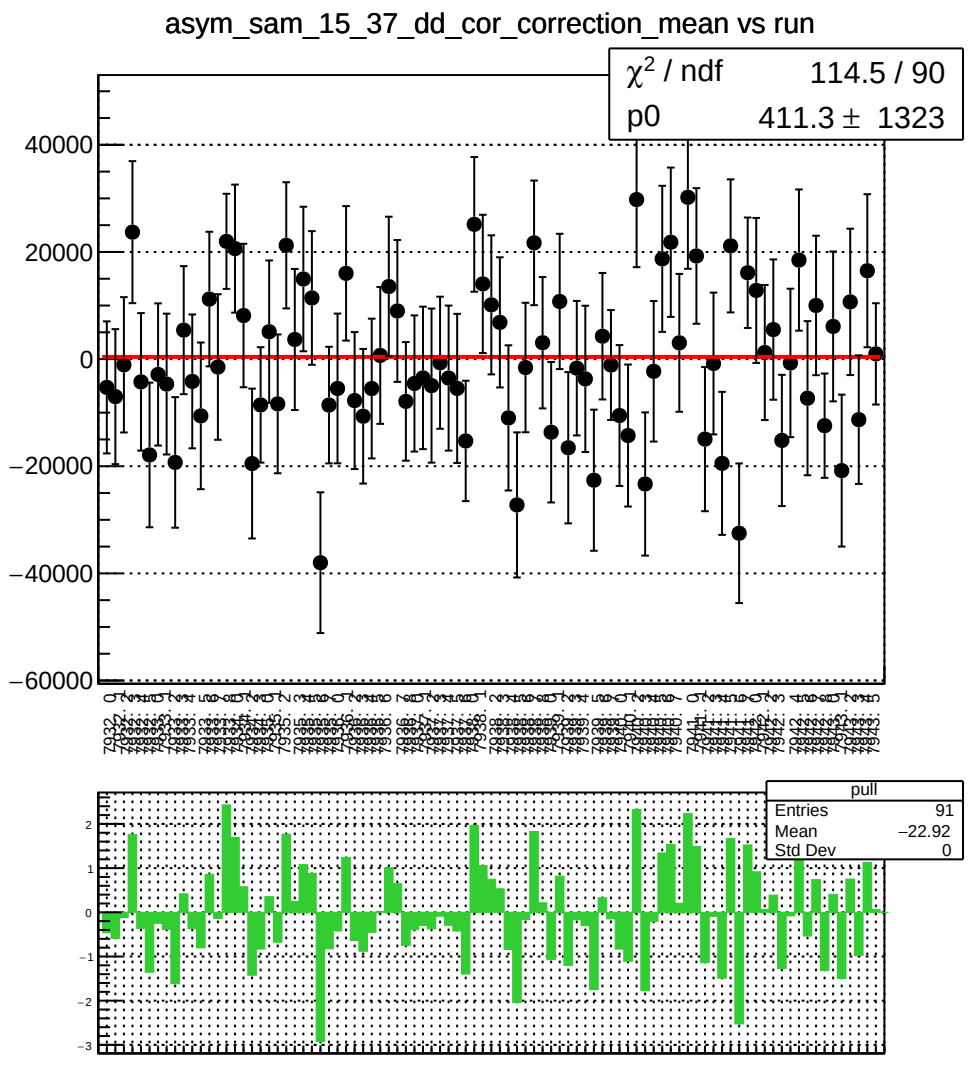

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 114.5 / 90
p0 411.3 ± 1323
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −22.91
Std Dev 0
2
1
0
−1
−2
−3

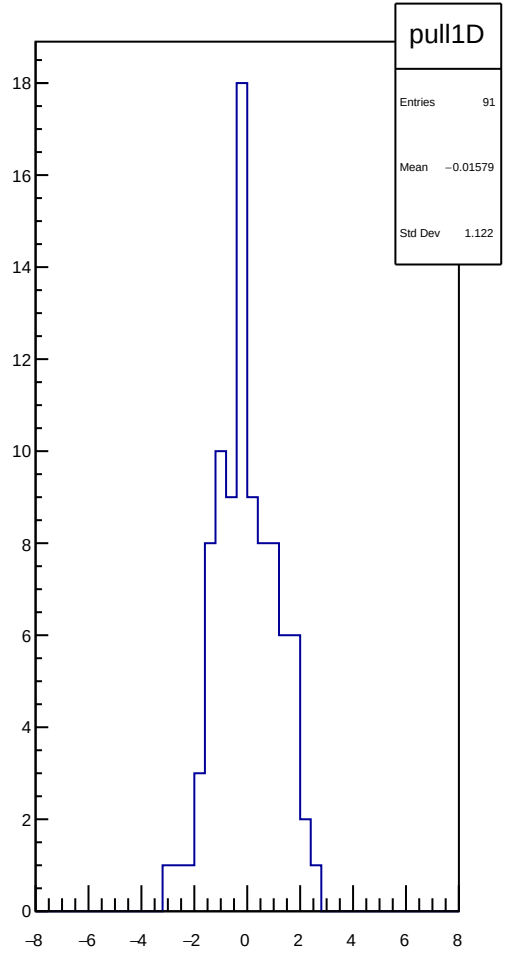

pull1D
Entries 91
Mean −0.01579
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4021 / 90
p0 1235 ± 0.9353
1400
1350
1300
1250
1200
1150
1100


cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 87.88 / 90
p0 −433.7 ± 122.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 12.66
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.005836
Std Dev 0.9827
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 9941 / 90
p0 114 ± 0.08647
160
150
140
130
120
110
100


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 114.5 / 90
p0 411.3 ± 1323
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −22.92
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.01579
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
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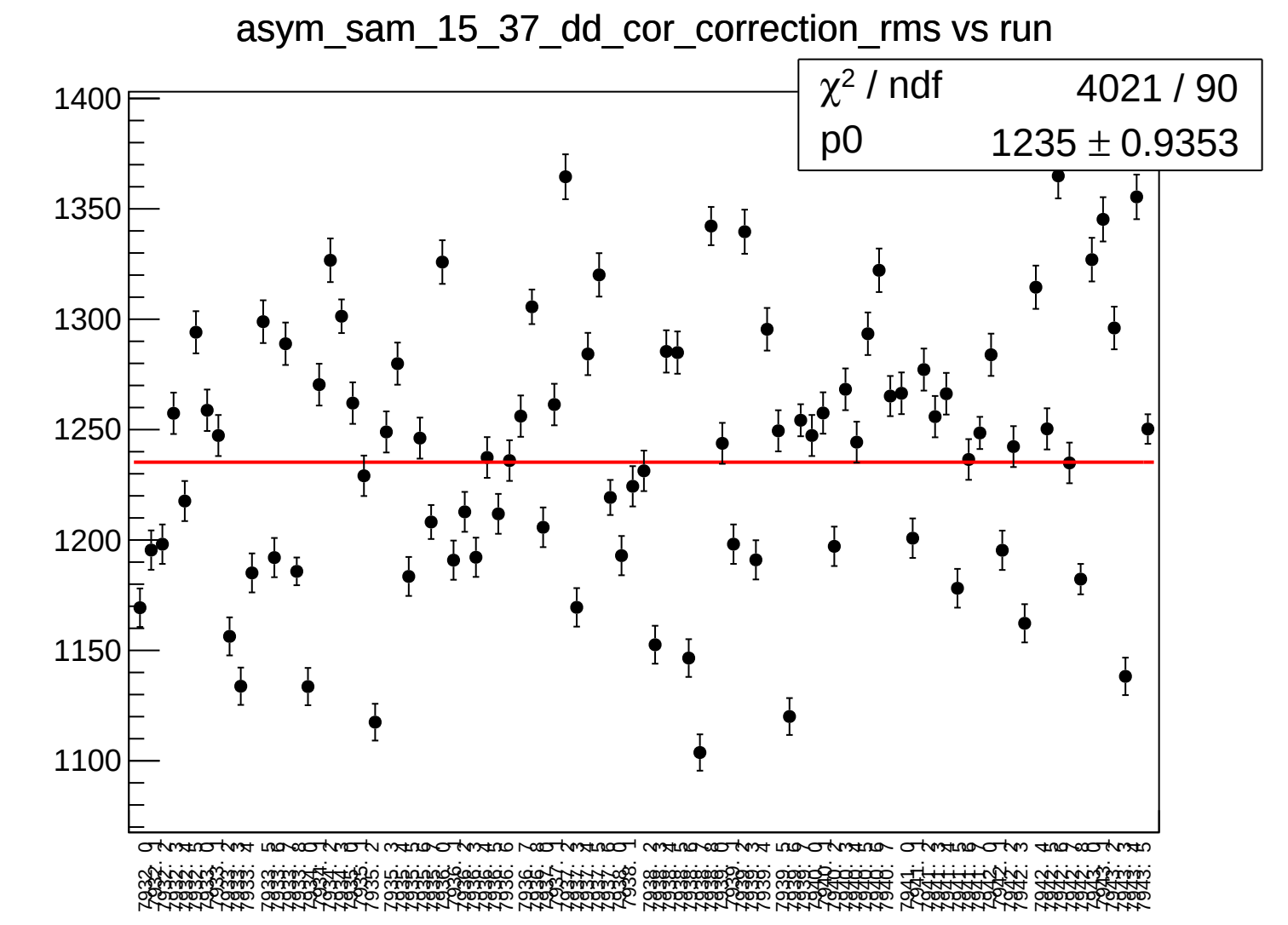
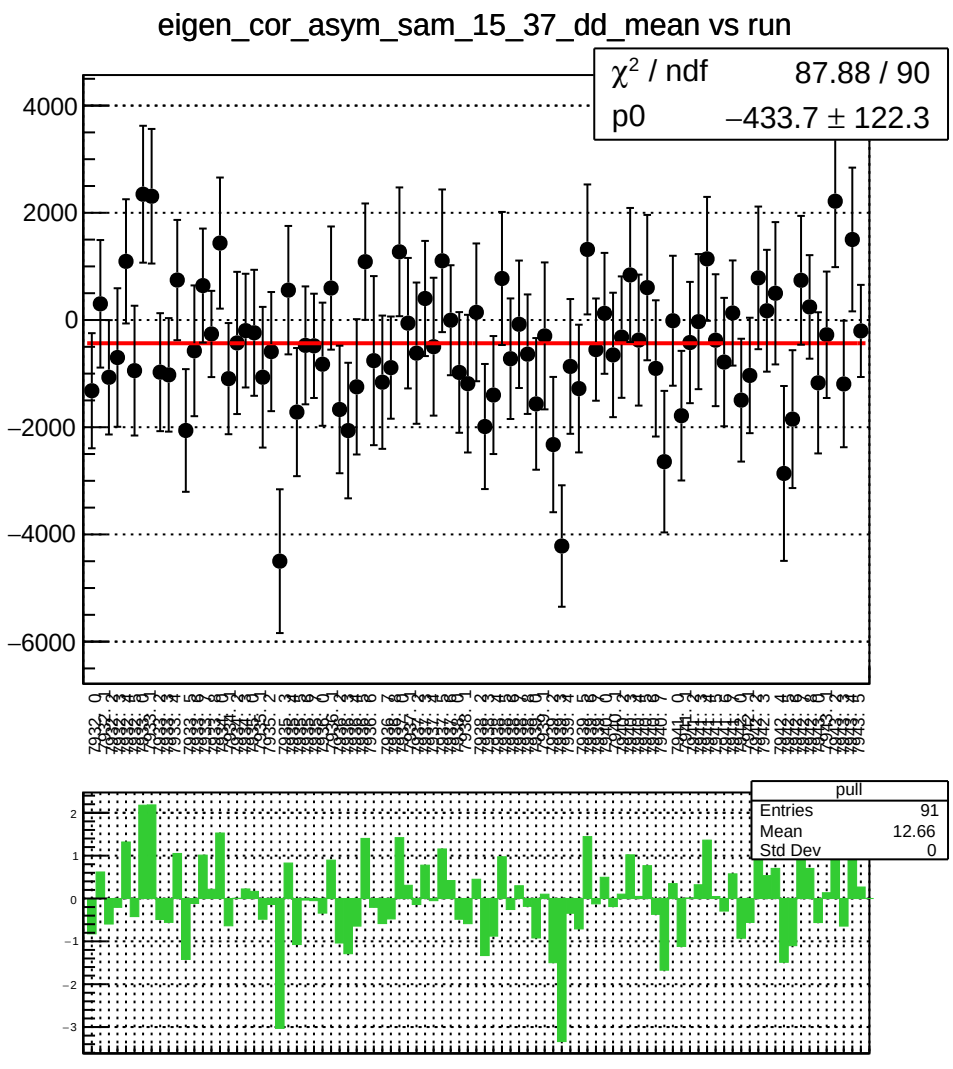
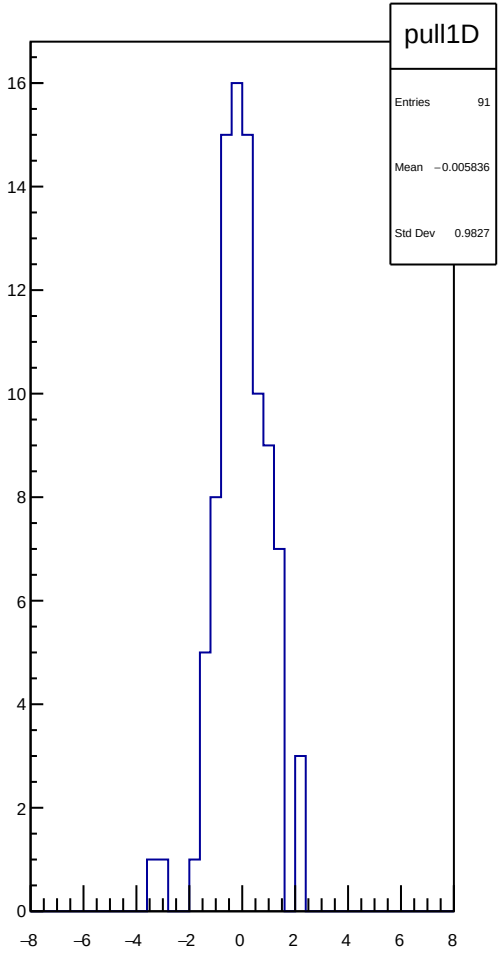
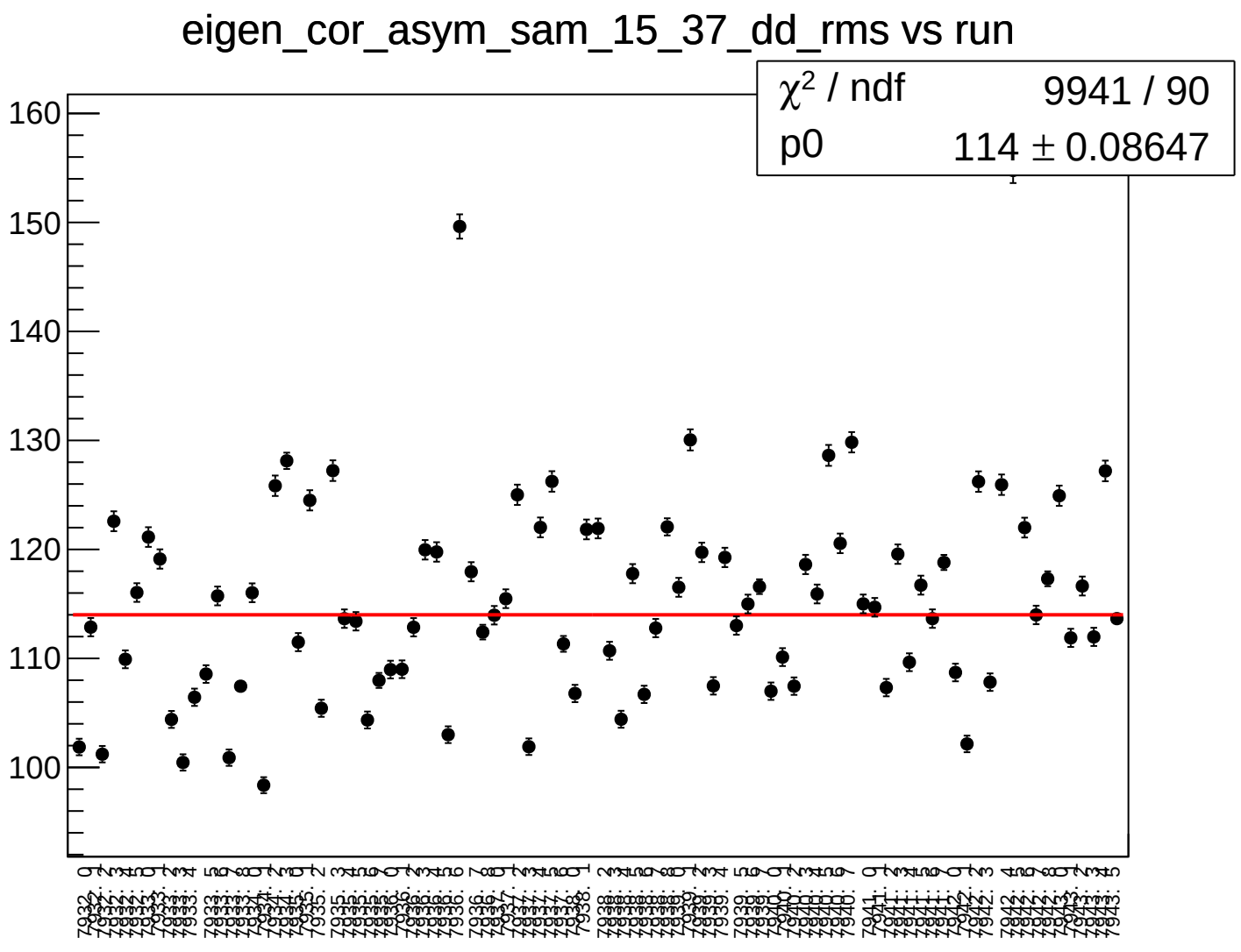
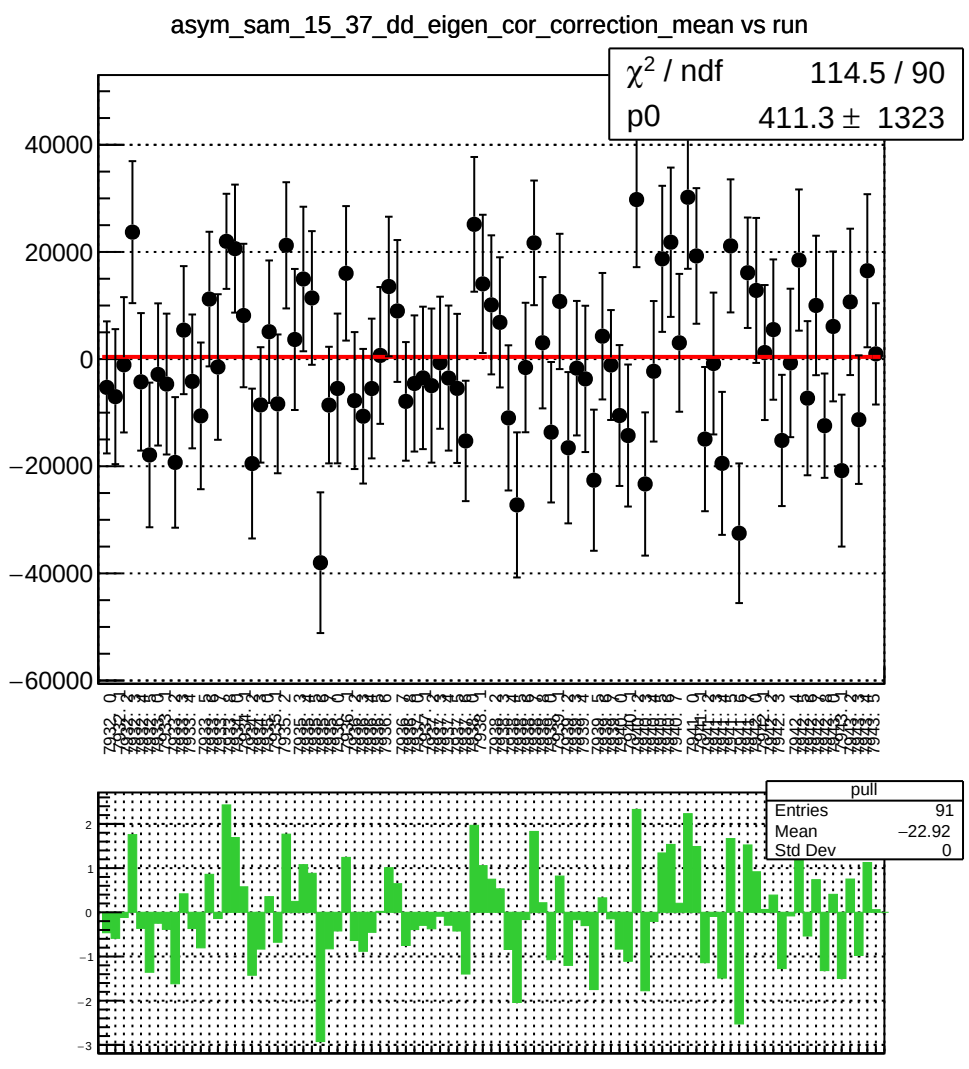
0
2
4
6
8

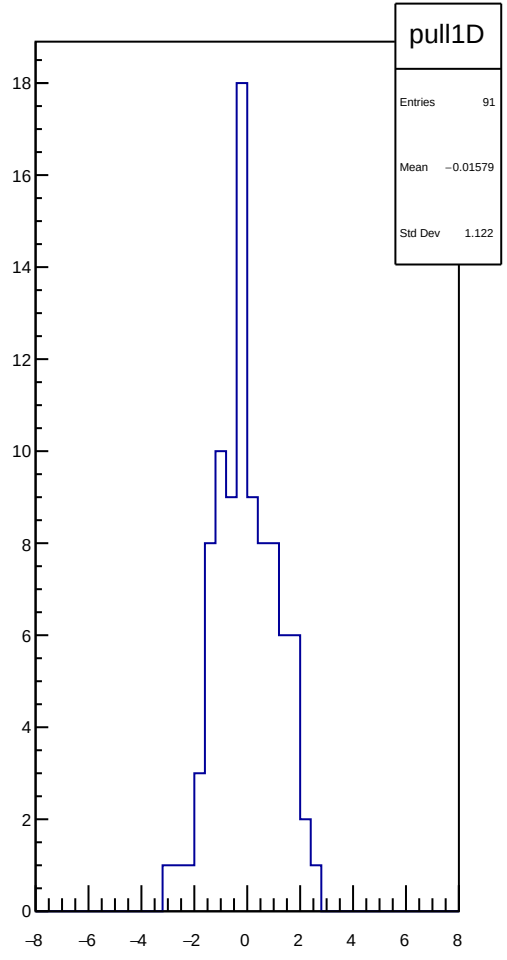

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4021 / 90
p0 1235 ± 0.9353
1400
1350
1300
1250
1200
1150
1100

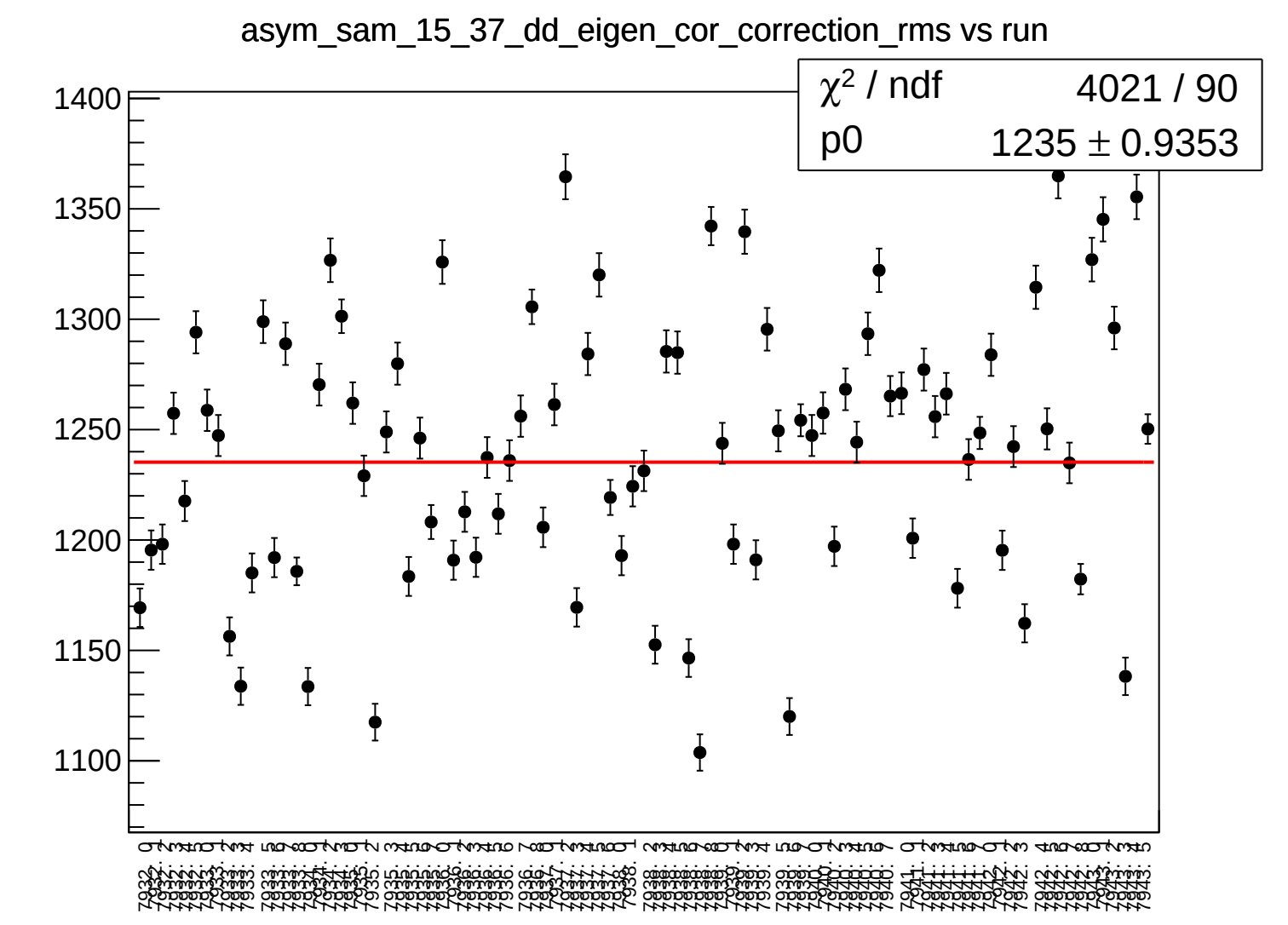

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 87.88 / 90
p0 −433.7 ± 122.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 12.66
Std Dev 0
2
1
0
−1
−2
−3

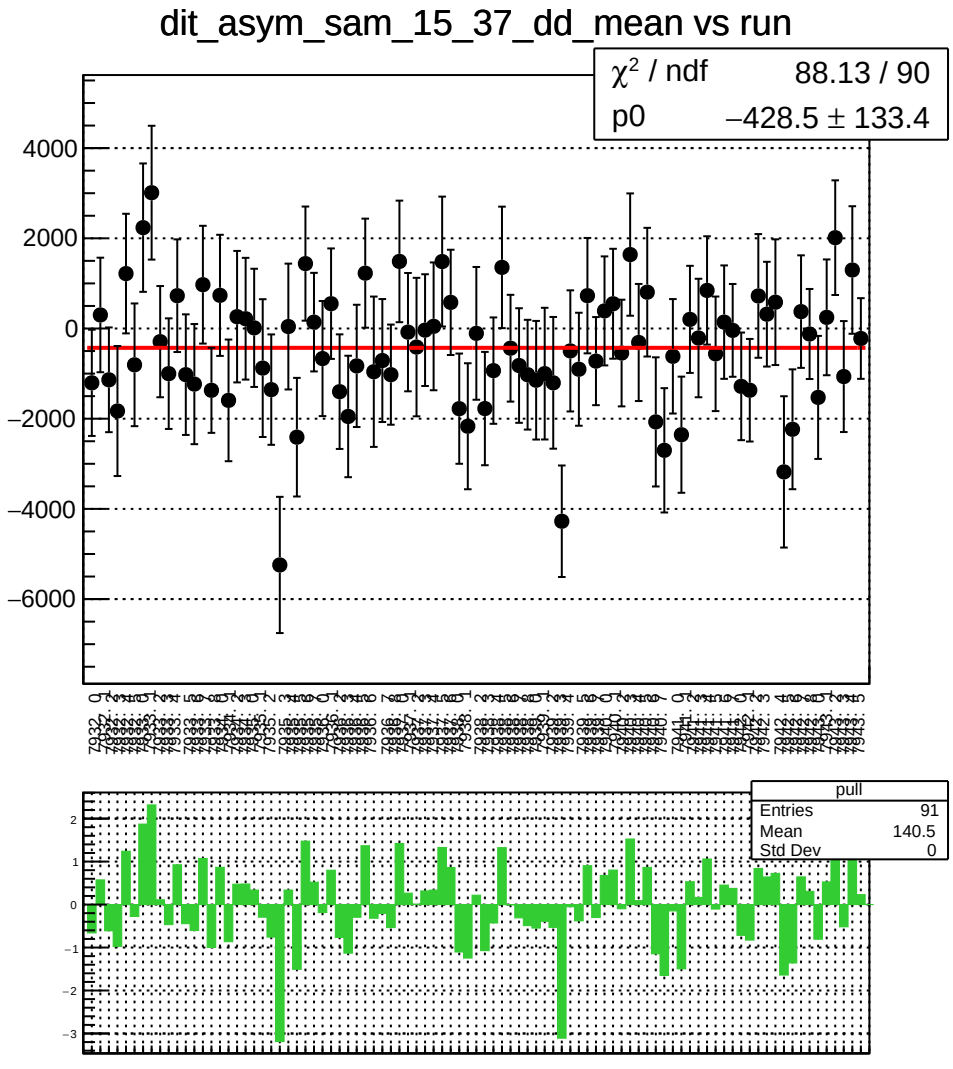

pull1D
Entries 91
Mean −0.005836
Std Dev 0.9827
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

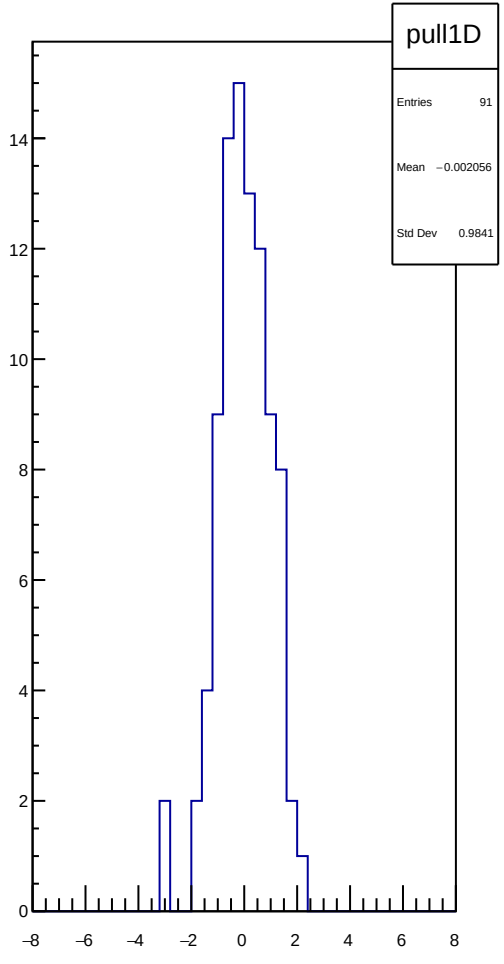

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 9941 / 90
p0 114 ± 0.08647
160
150
140
130
120
110
100

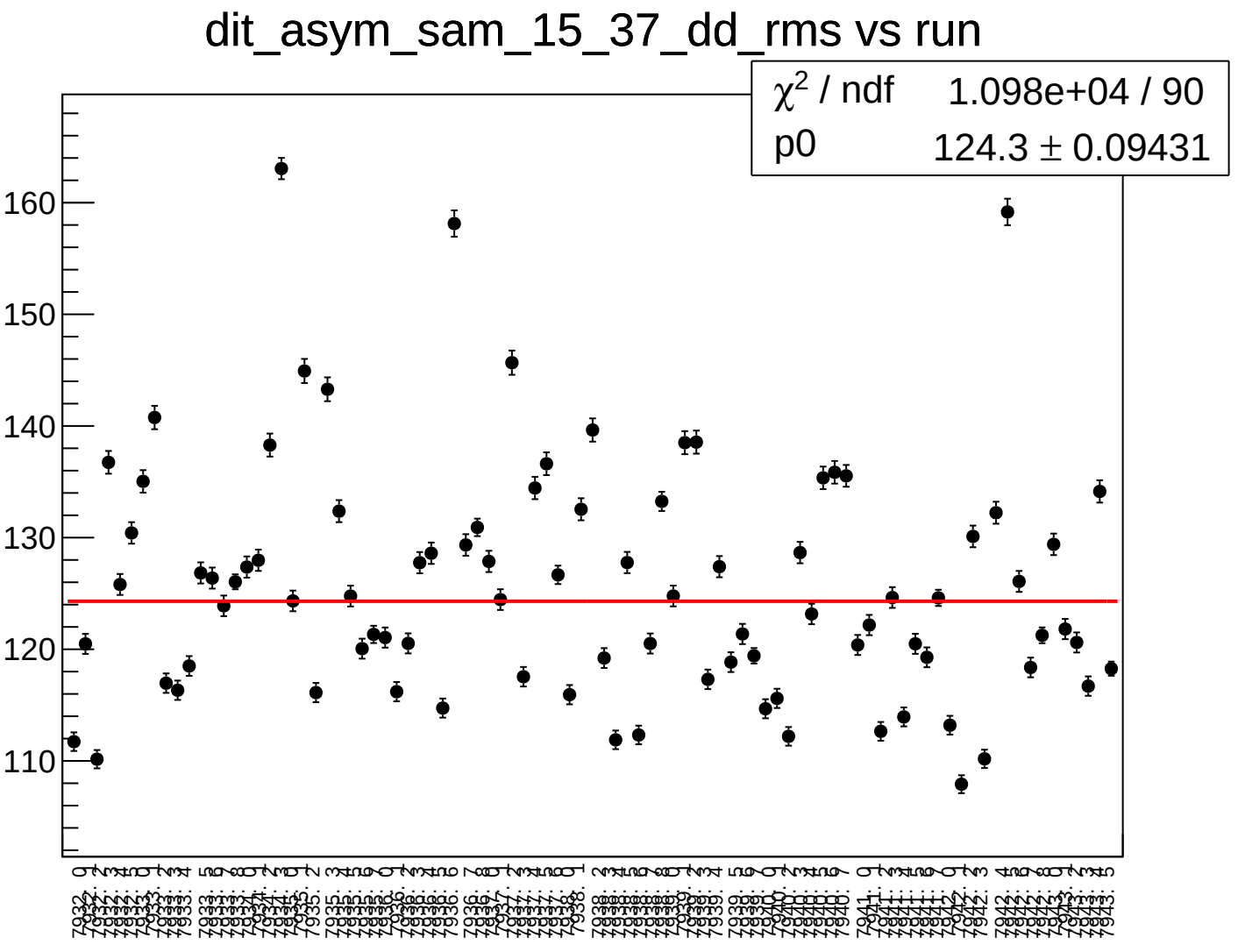

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.5 / 90
p0 411.3 ± 1323
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −22.92
Std Dev 0
2
1
0
−1
−2
−3

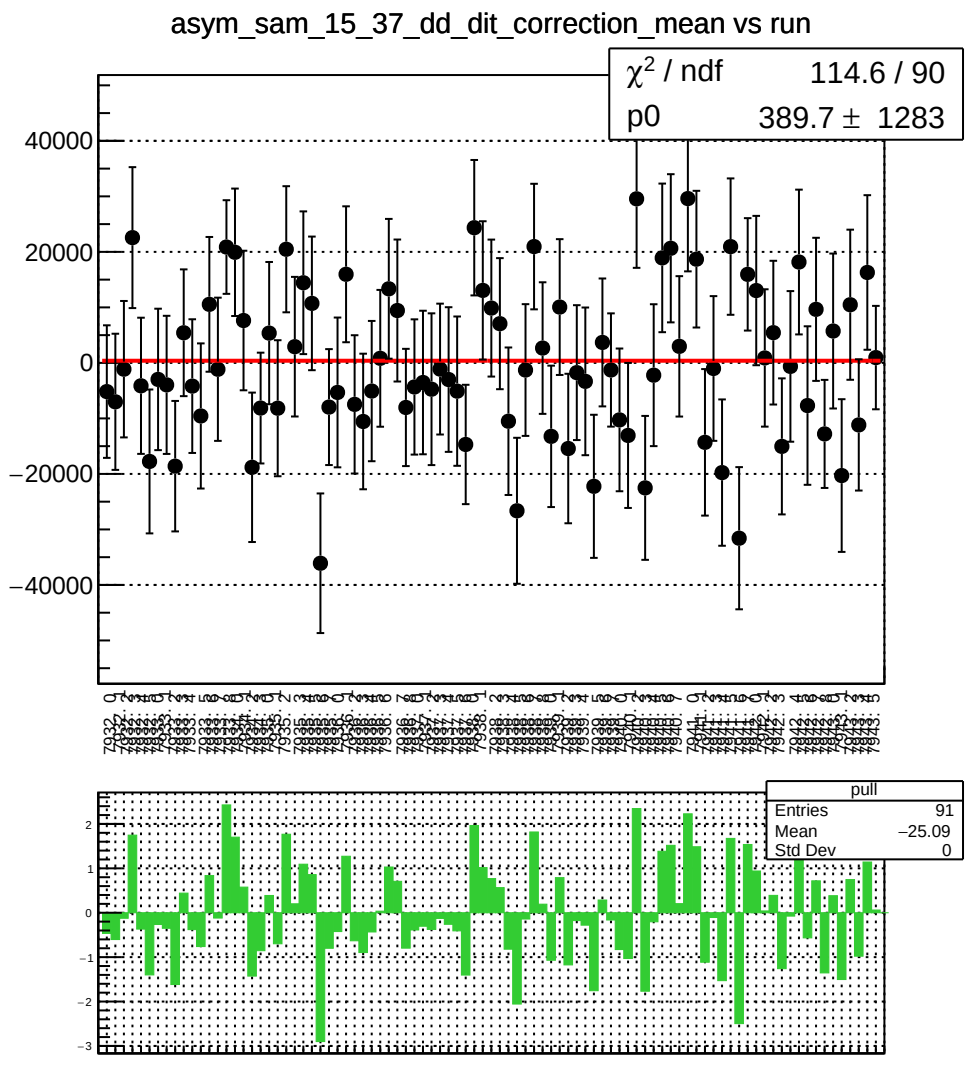

pull1D
Entries 91
Mean −0.01579
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

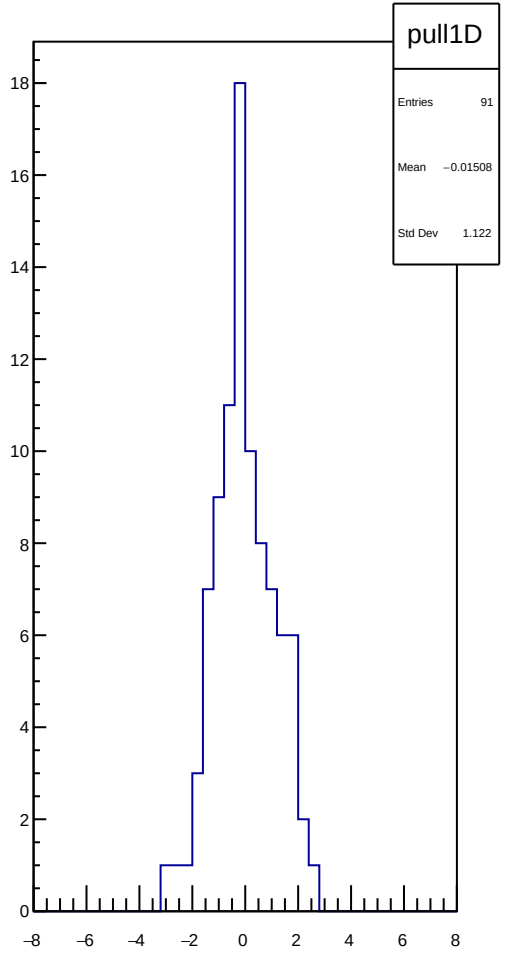

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4021 / 90
p0 1235 ± 0.9353
1400
1350
1300
1250
1200
1150
1100

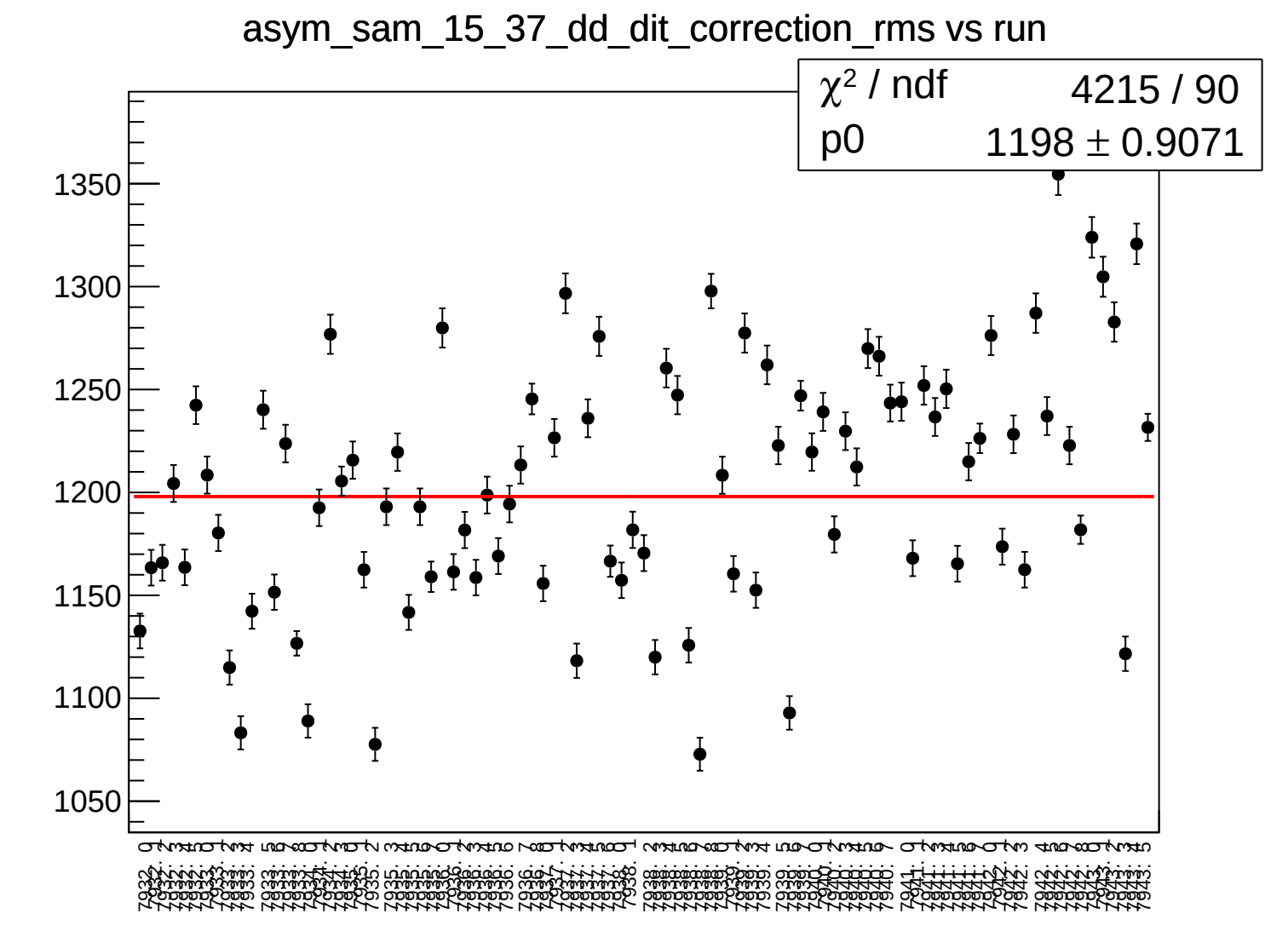

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.13 / 90
p0 −428.5 ± 133.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 140.5
Std Dev 0
2
1
0
−1
−2
−3

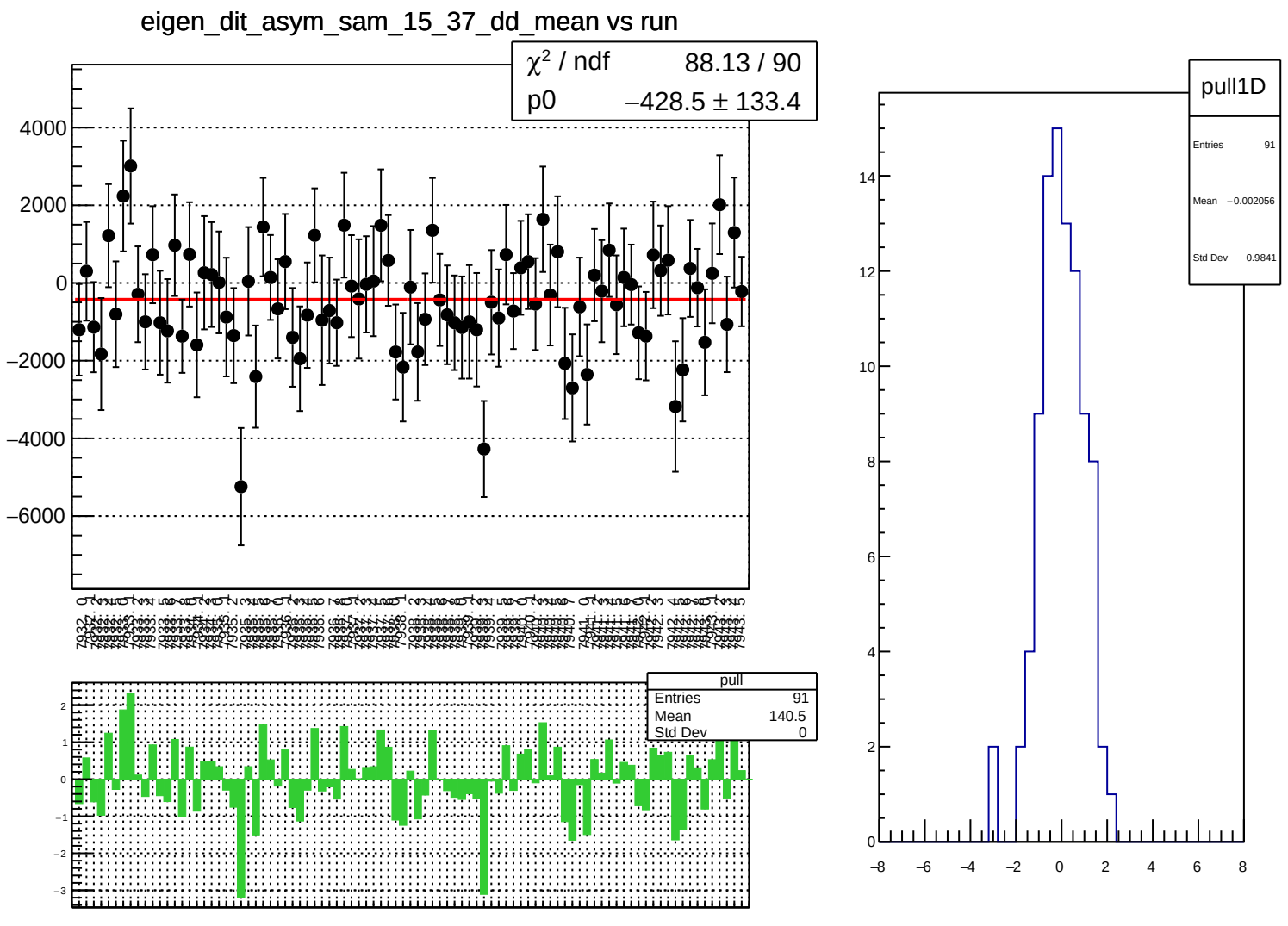

pull1D
Entries 91
Mean −0.002056
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

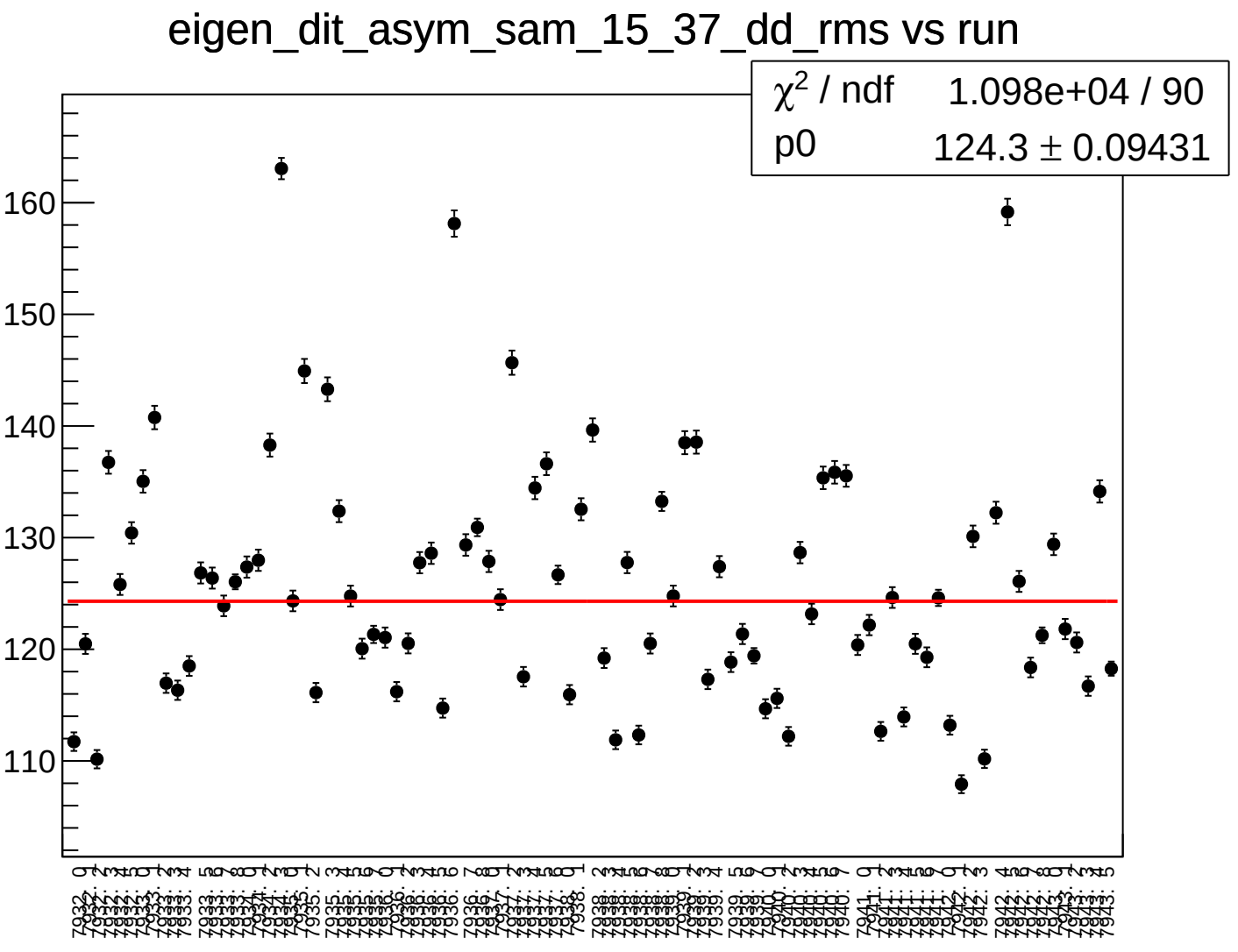

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.098e+04 / 90
p0 124.3 ± 0.09431
160
150
140
130
120
110

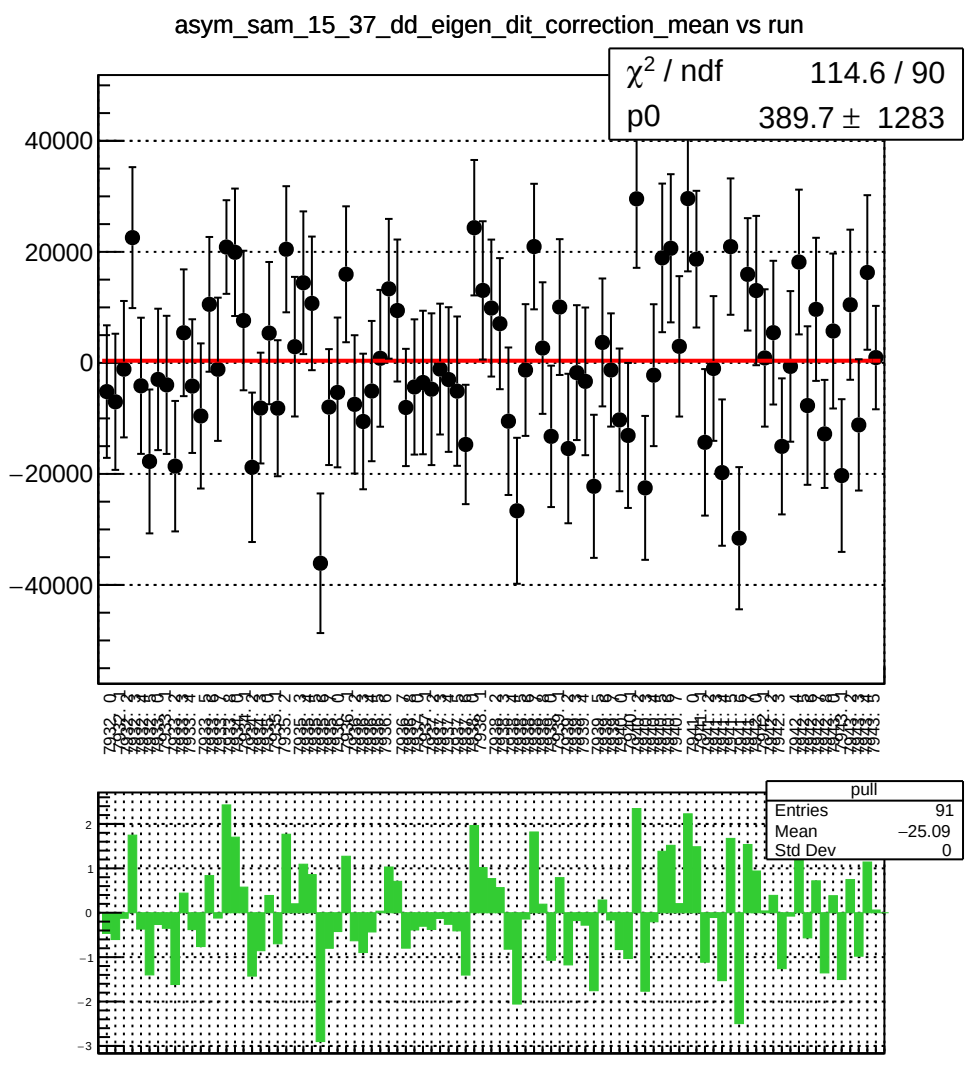

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 114.6 / 90
p0 389.7 ± 1283
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −25.09
Std Dev 0
2
1
0
−1
−2
−3

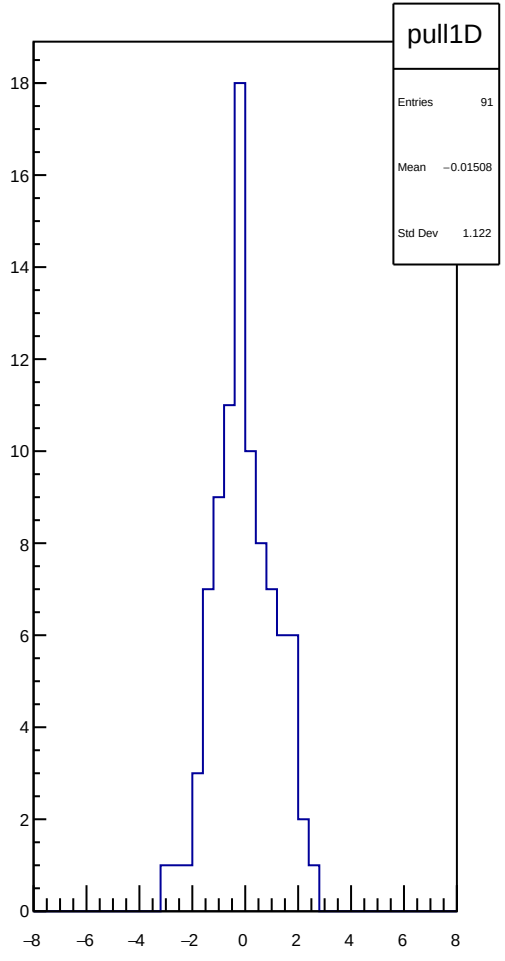

pull1D
Entries 91
Mean −0.01508
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

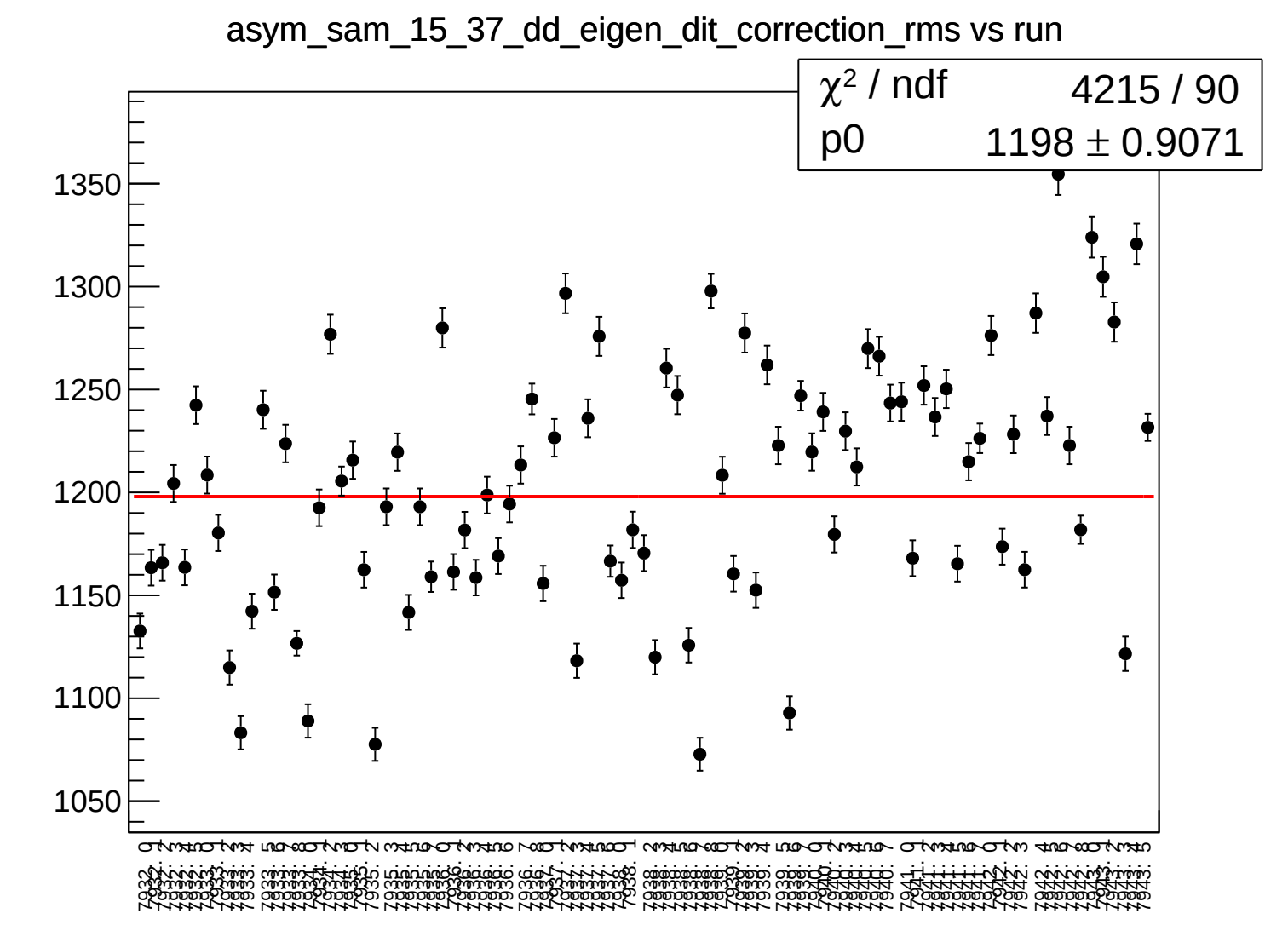

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4215 / 90
p0 1198 ± 0.9071
1350
1300
1250
1200
1150
1100
1050

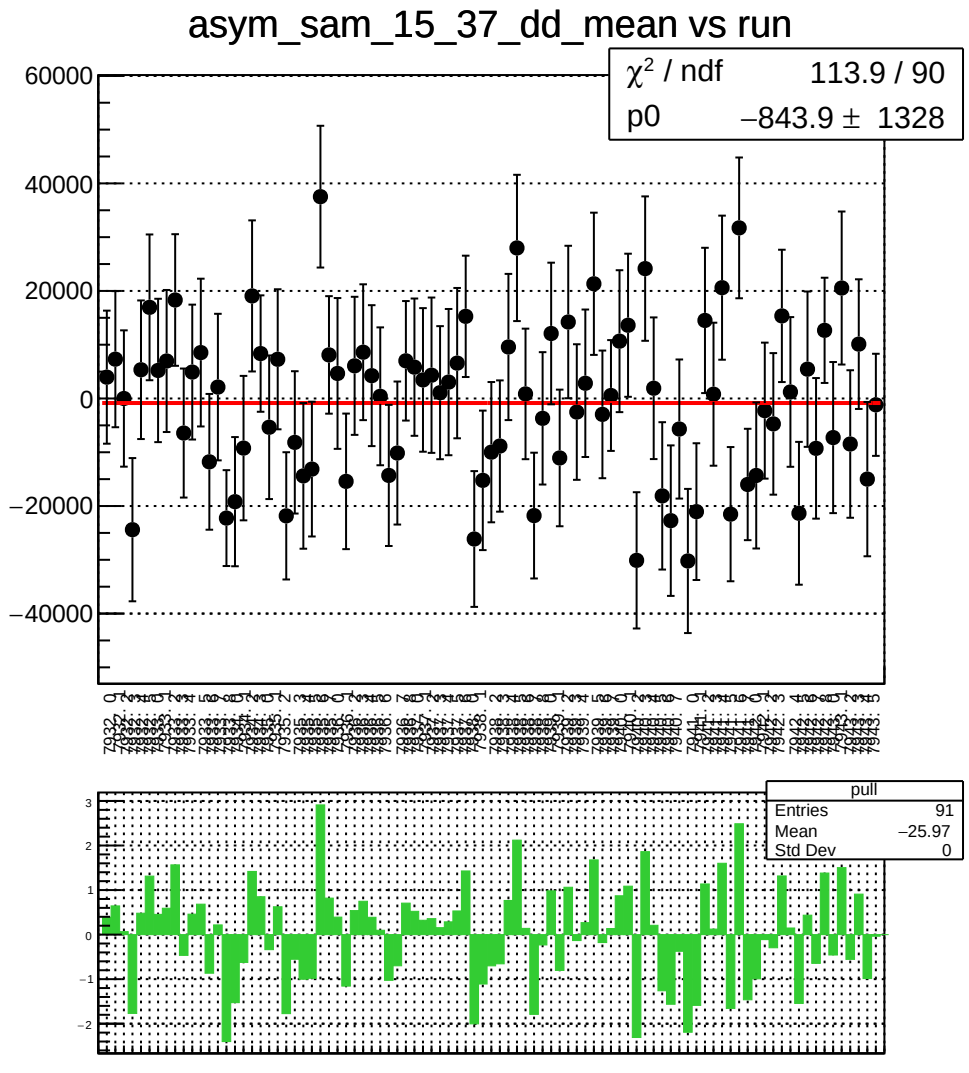

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.13 / 90
p0 −428.5 ± 133.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 140.5
Std Dev 0
pull1D
Entries 91
Mean −0.002056
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

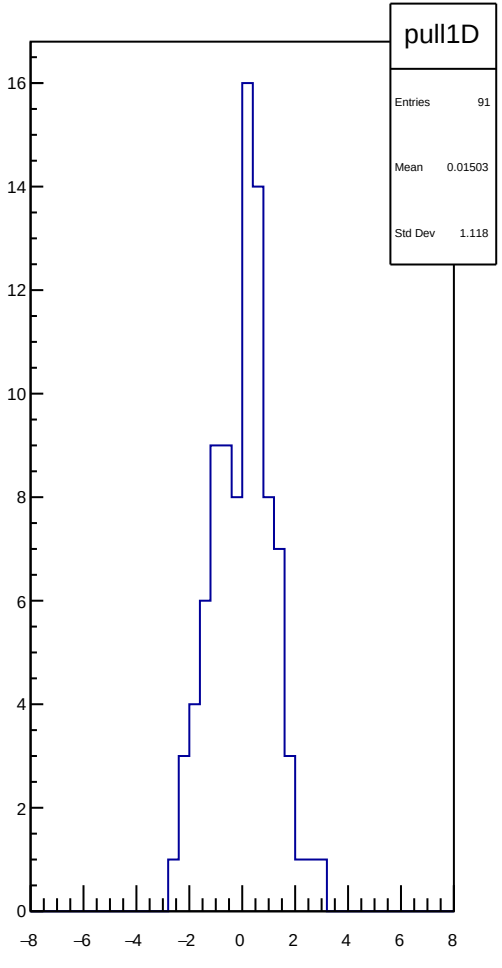

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.098e+04 / 90
p0 124.3 ± 0.09431
160
150
140
130
120
110

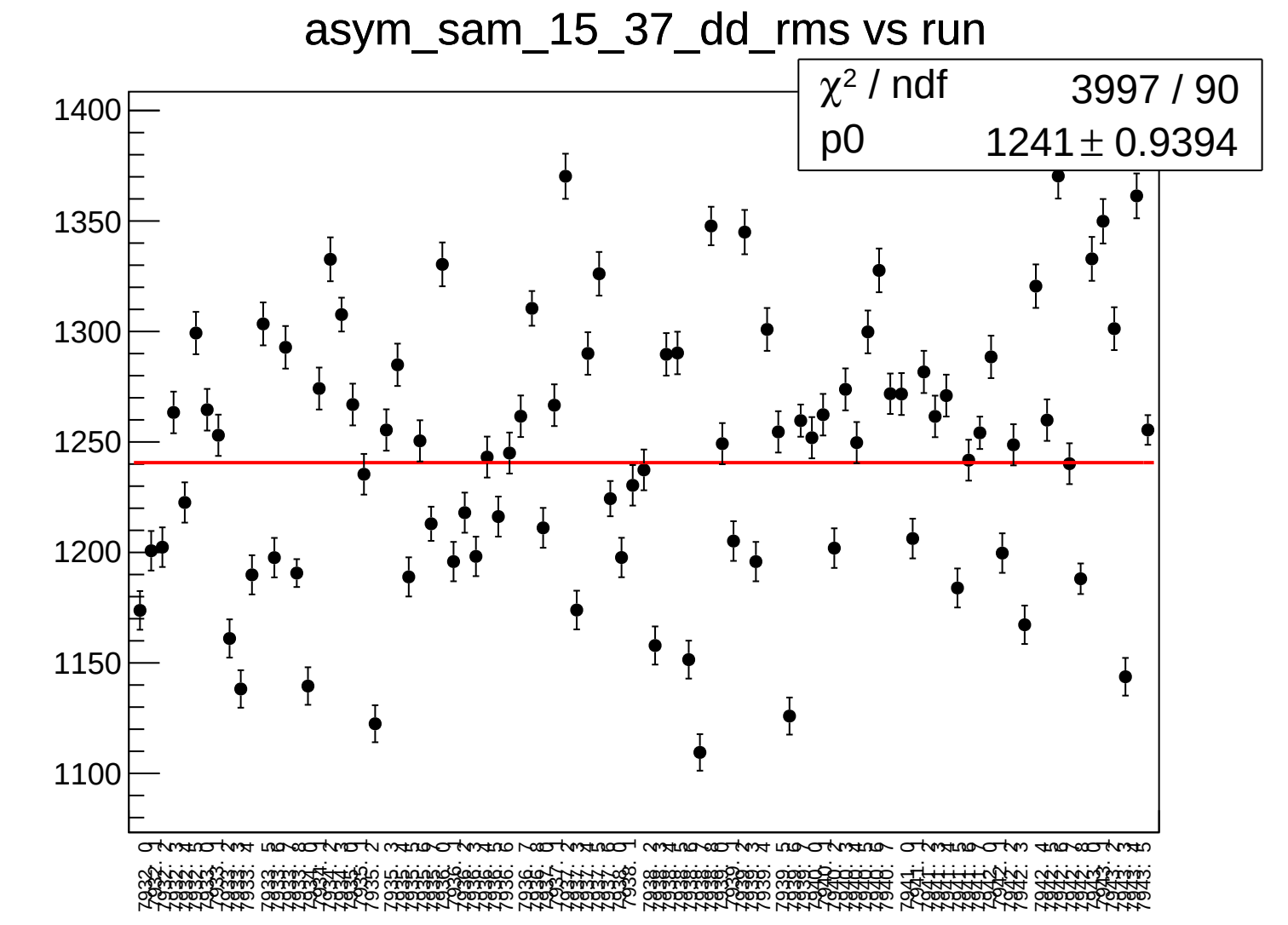

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.6 / 90
p0 389.7 ± 1283
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −25.09
Std Dev 0
2
1
0
−1
−2
−3

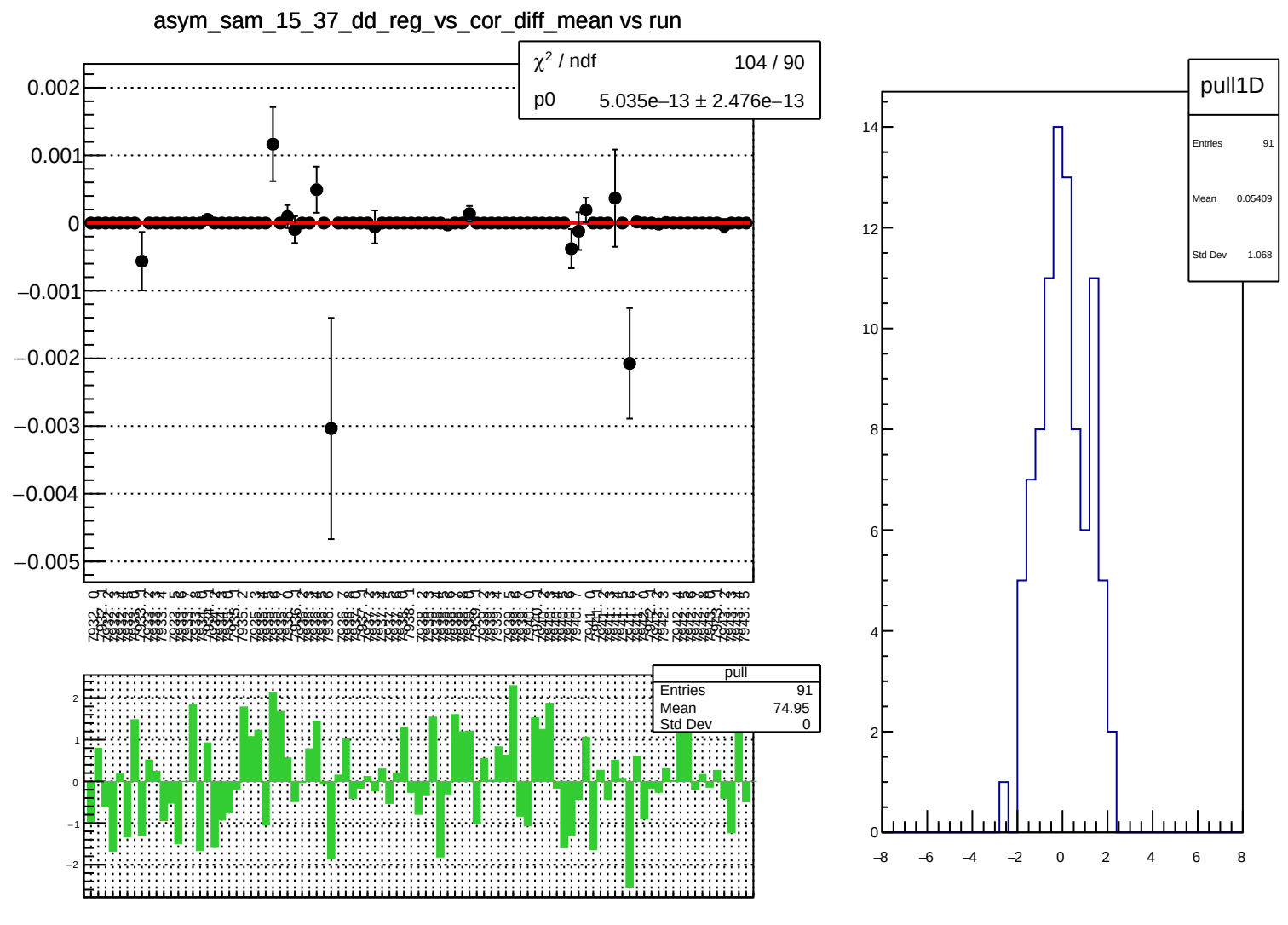

pull1D
Entries 91
Mean −0.01508
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

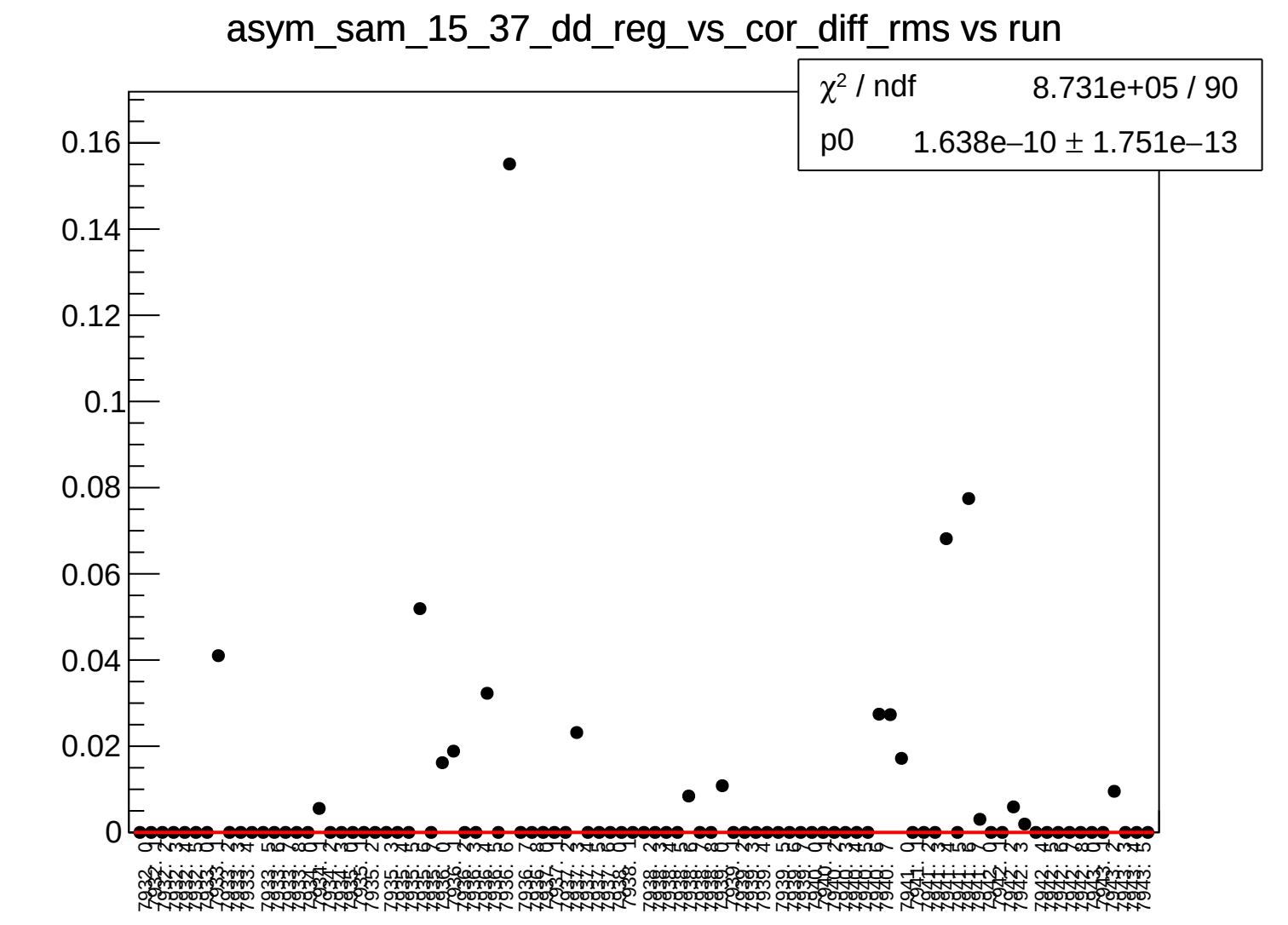

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4215 / 90
p0 1198 ± 0.9071
1350
1300
1250
1200
1150
1100
1050

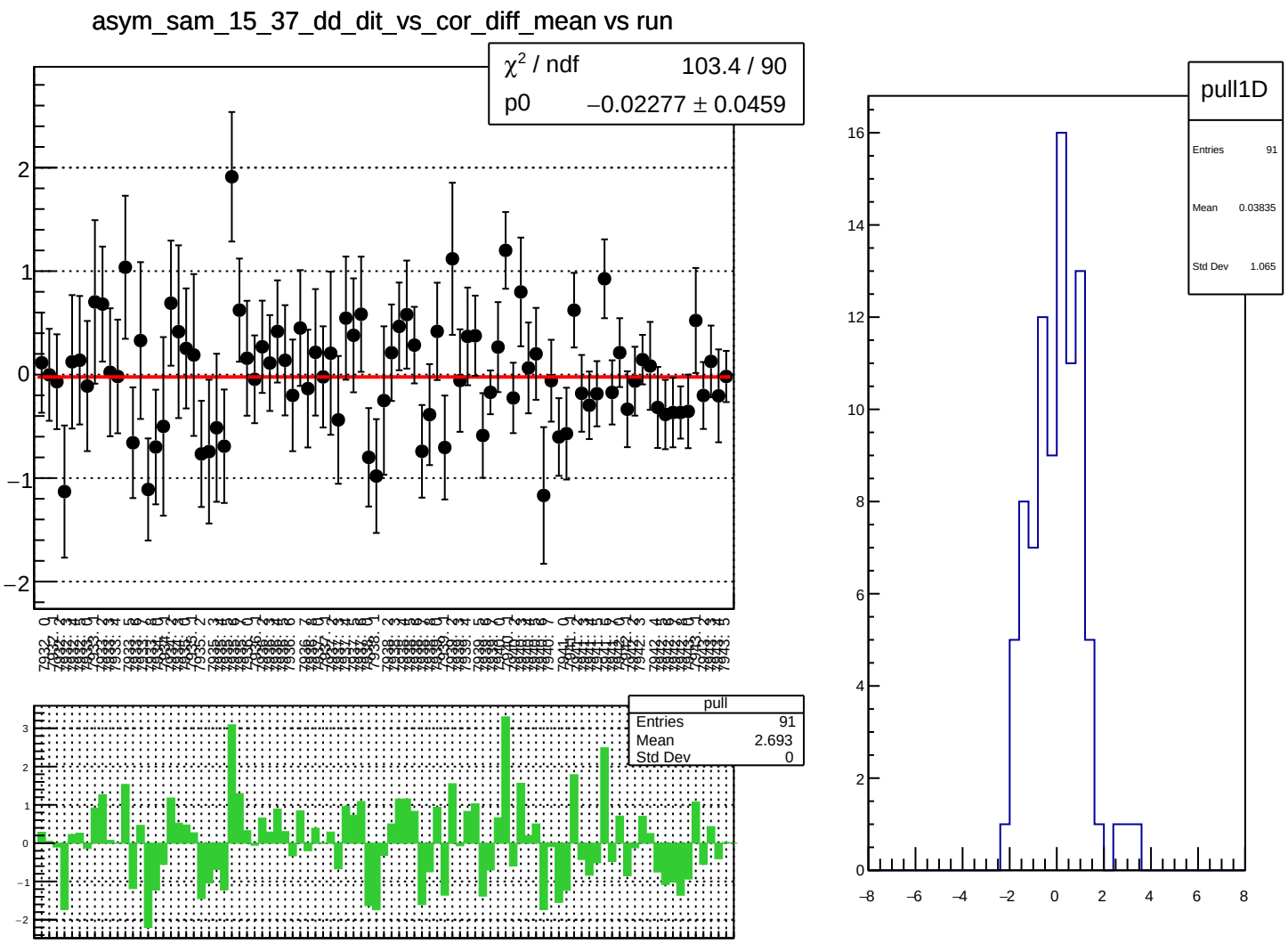

asym_sam_15_37_dd_mean vs run
χ² / ndf 113.9 / 90
p0 −843.9 ± 1328
pull
Entries 91
Mean −25.97
Std Dev 0

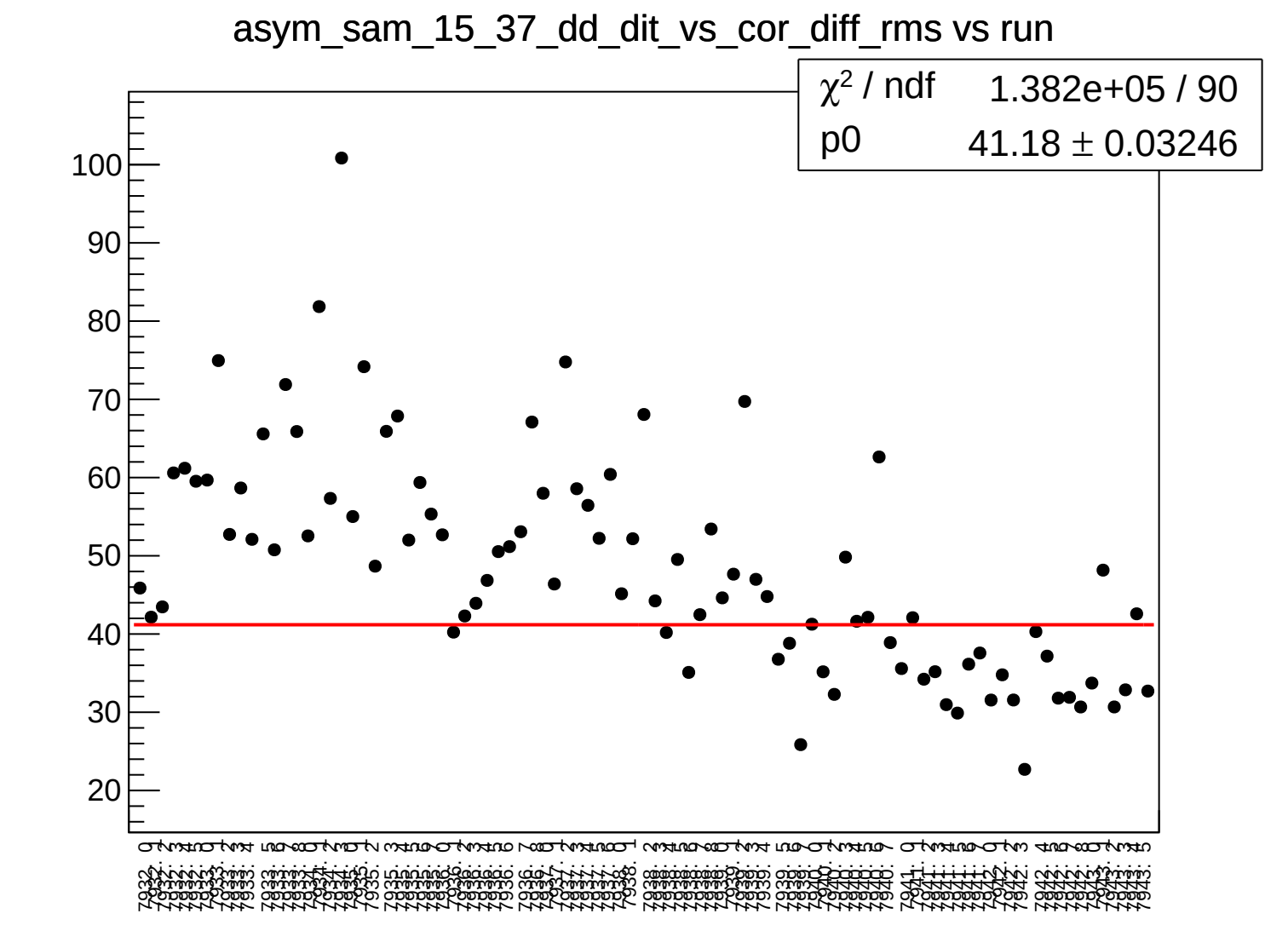

pull1D
Entries 91
Mean 0.01503
Std Dev 1.118

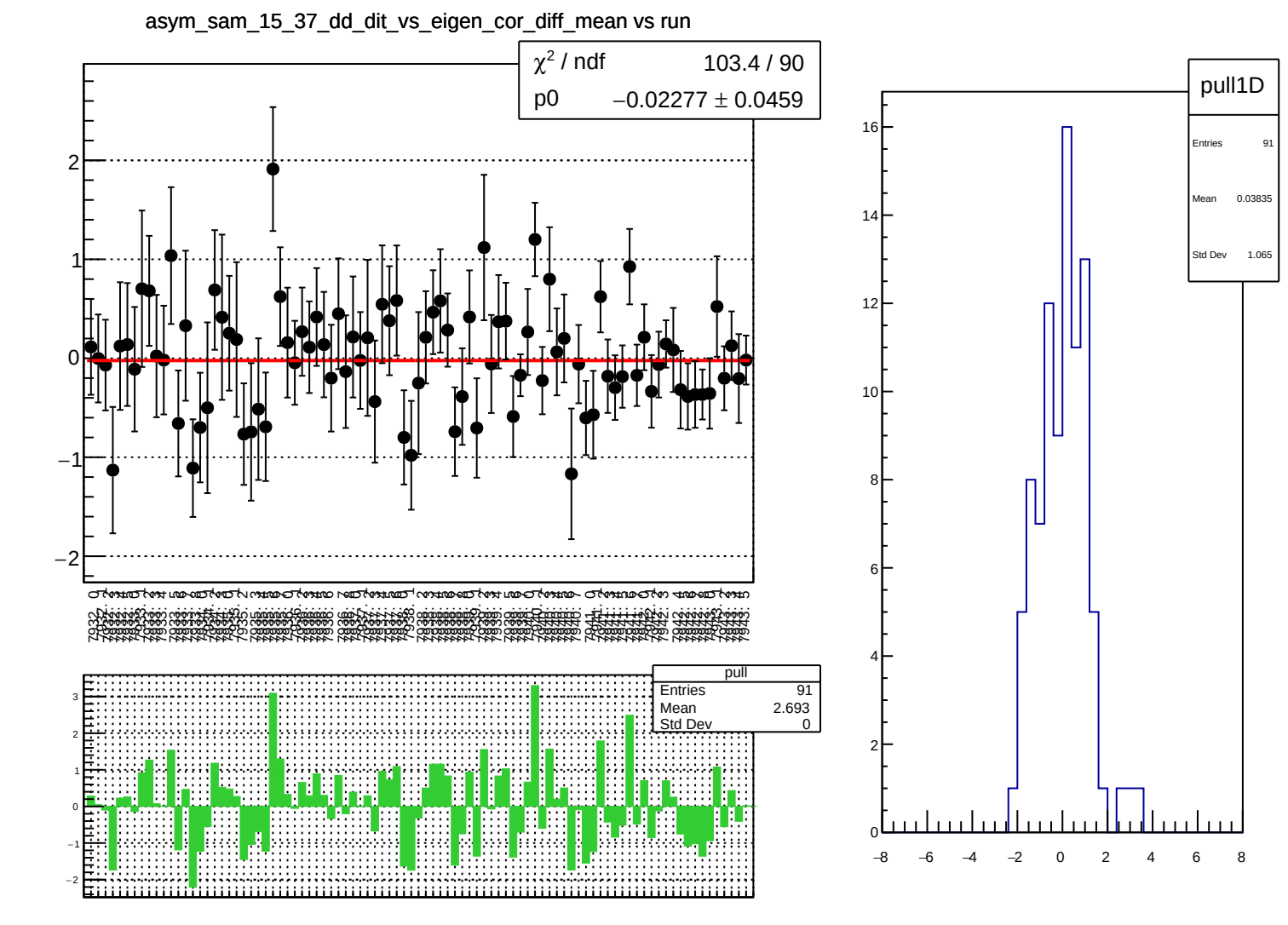

asym_sam_15_37_dd_rms vs run
χ² / ndf 3997 / 90
p0 1241 ± 0.9394
1400
1350
1300
1250
1200
1150
1100

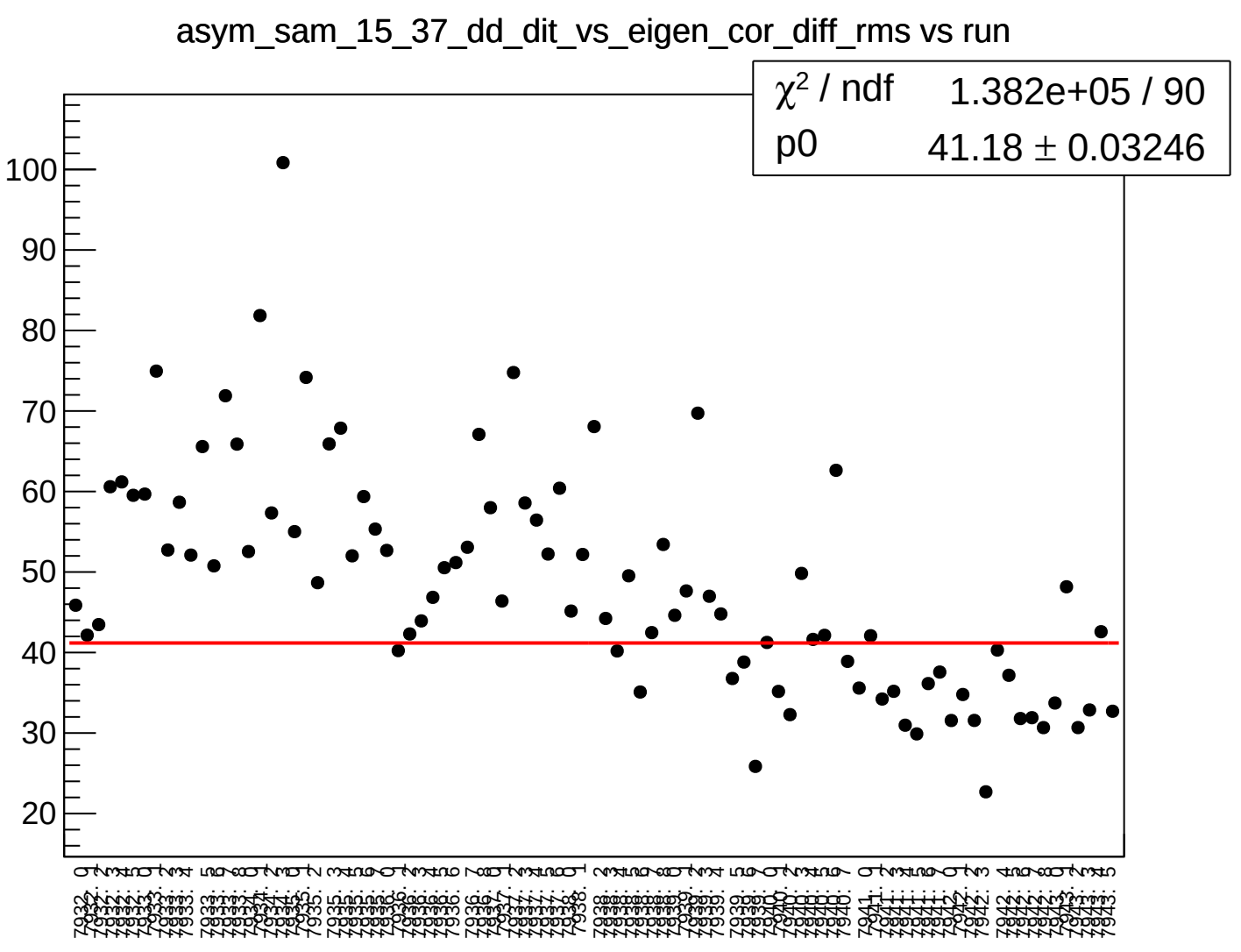

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 90
p0 5.035e−13 ± 2.476e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 91
Mean 74.95
Std Dev 0
pull1D
Entries 91
Mean 0.05409
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

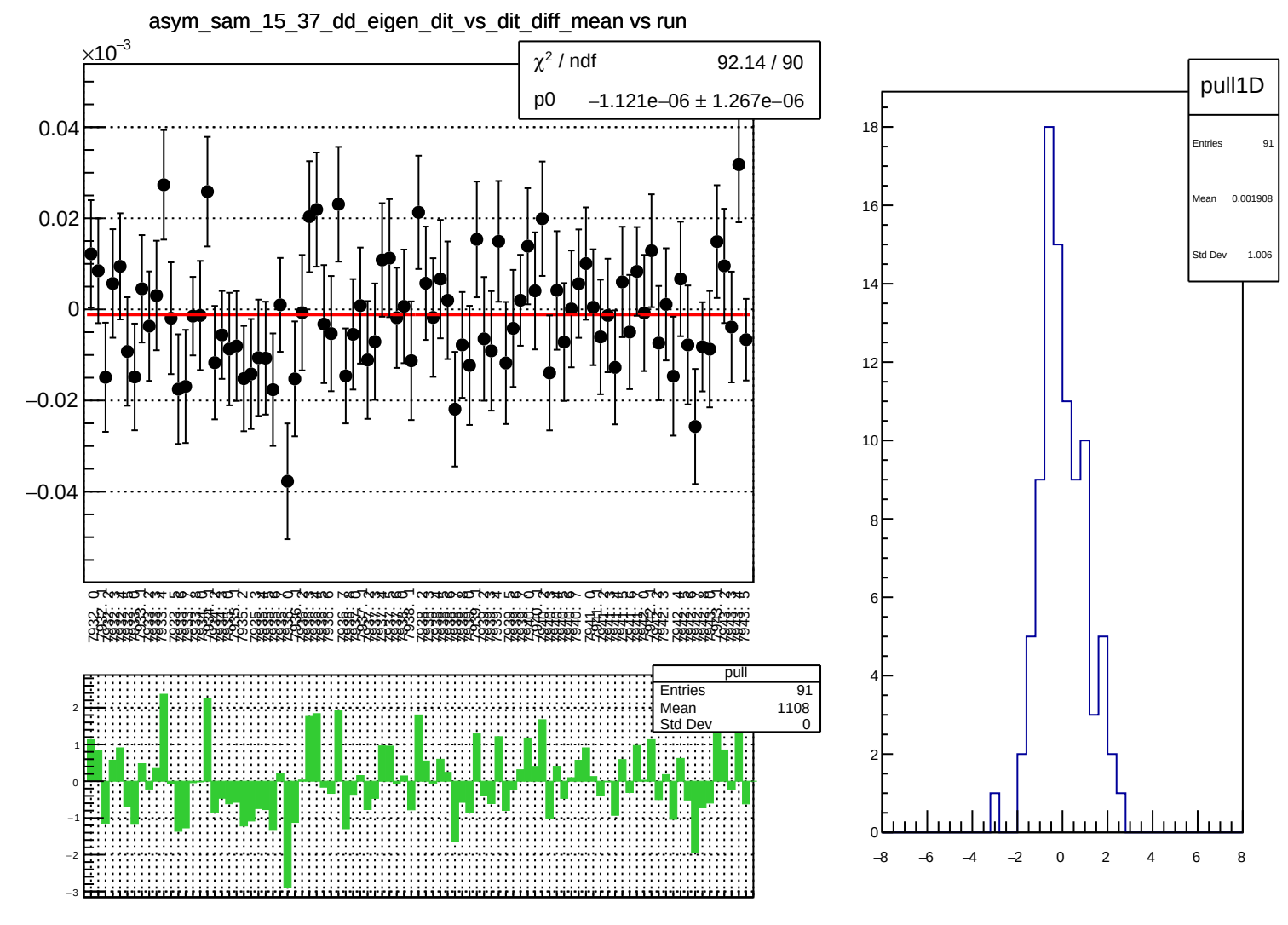

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.731e+05 / 90
p0 1.638e−10 ± 1.751e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

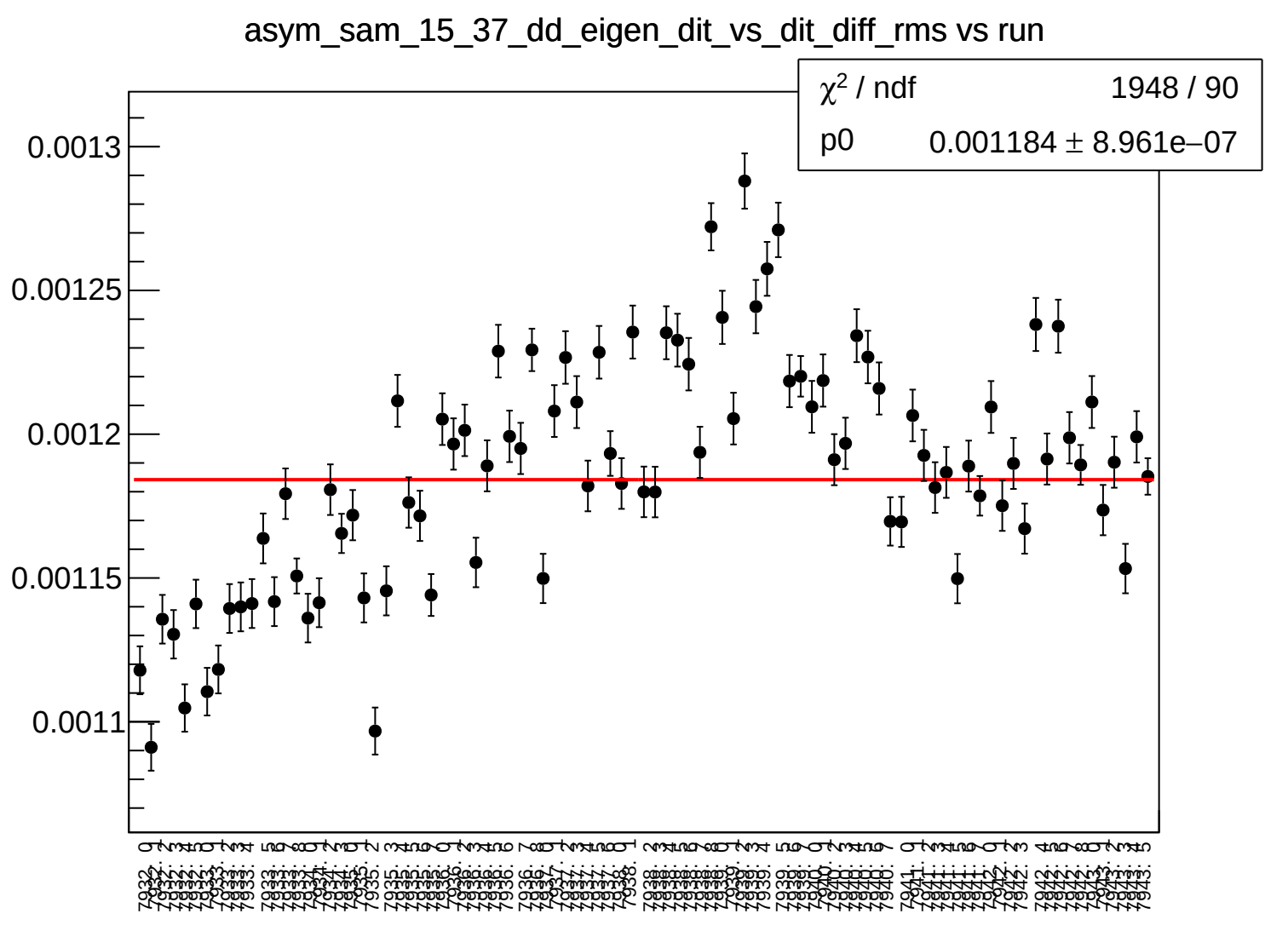

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 90
p0 −0.02277 ± 0.0459
pull
Entries 91
Mean 2.693
Std Dev 0
pull1D
Entries 91
Mean 0.03835
Std Dev 1.065

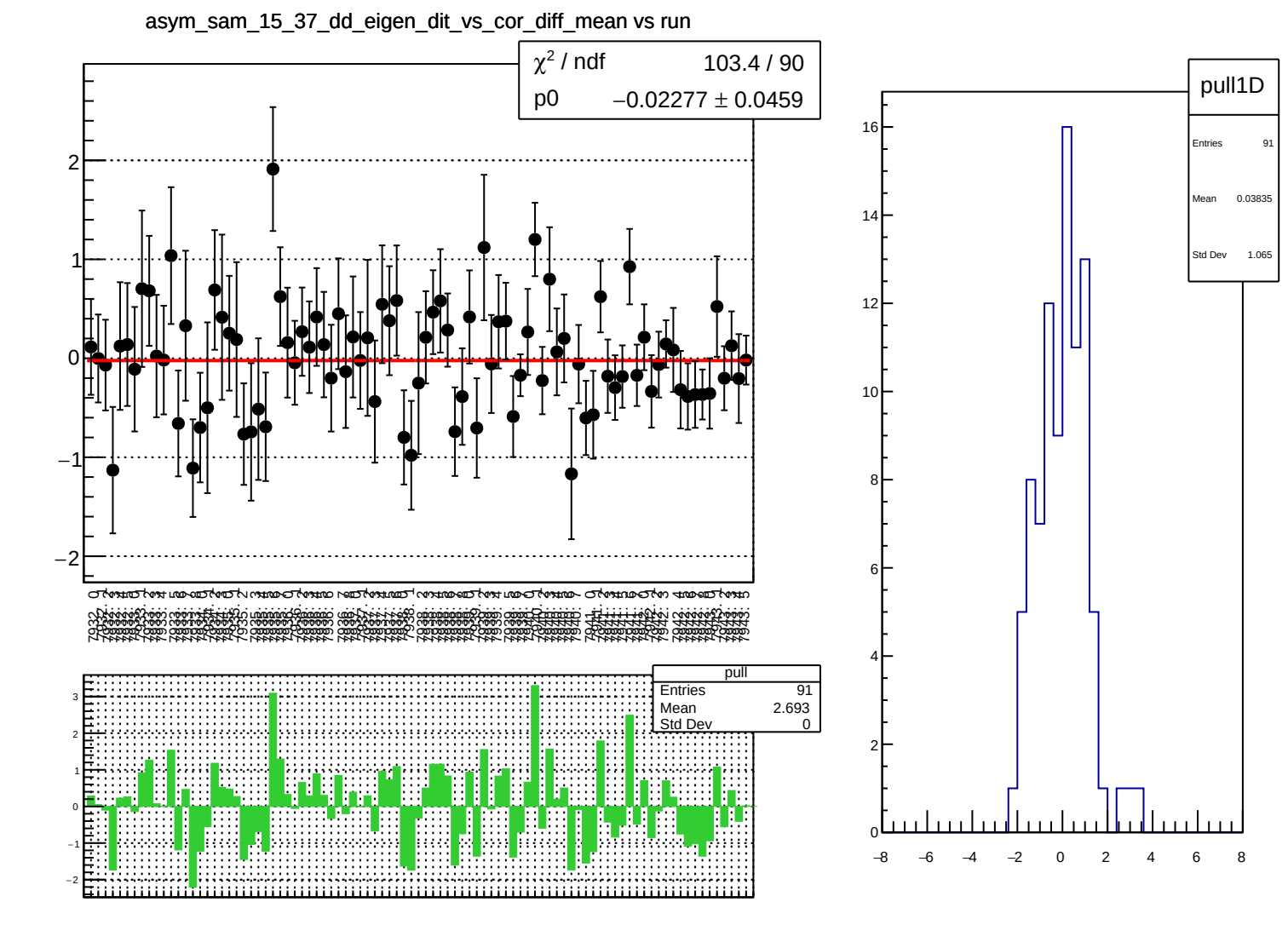

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.382e+05 / 90
p0 41.18 ± 0.03246
100
90
80
70
60
50
40
30
20

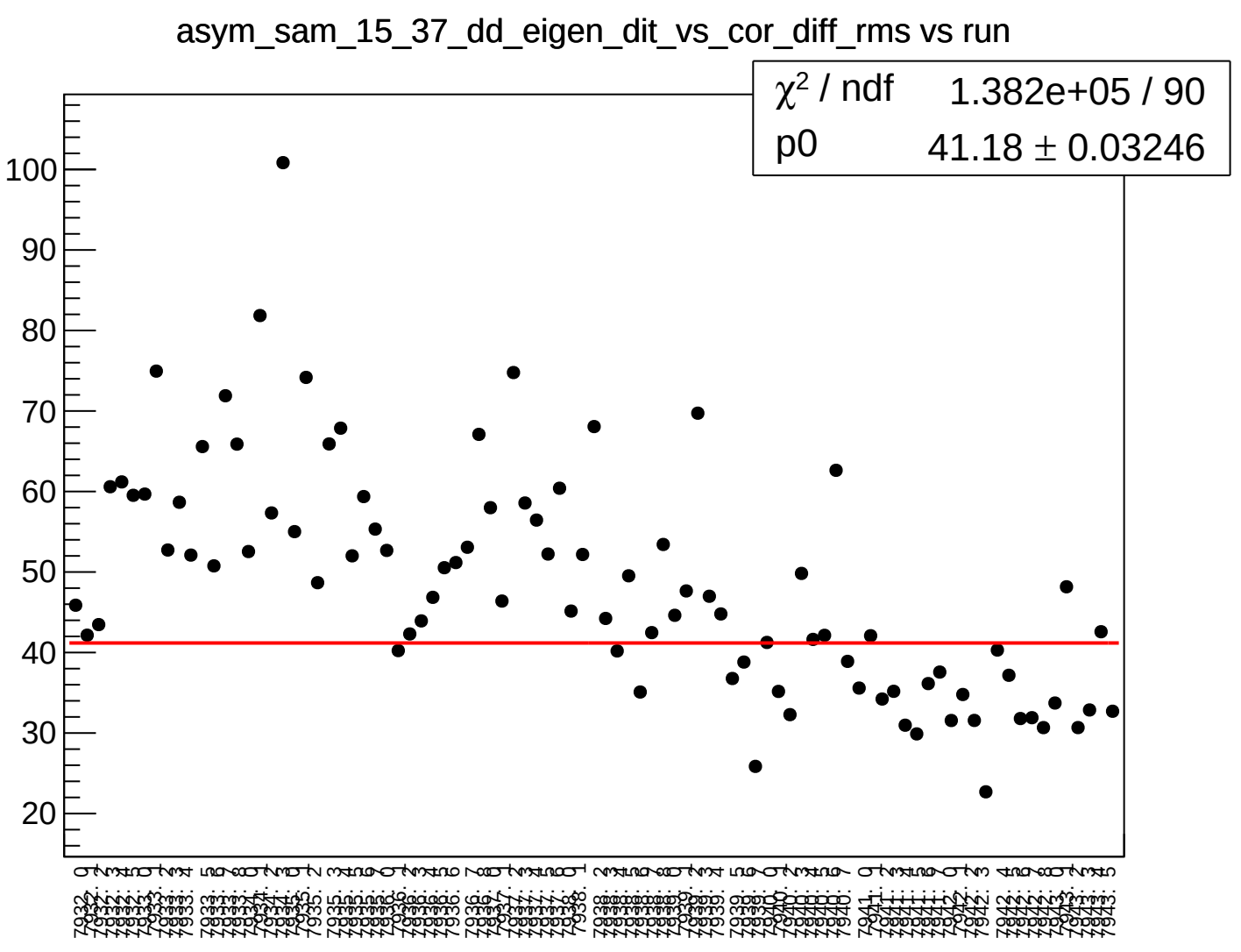

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 90
p0 −0.02277 ± 0.0459
pull
Entries 91
Mean 2.693
Std Dev 0
pull1D
Entries 91
Mean 0.03835
Std Dev 1.065


asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.382e+05 / 90
p0 41.18 ± 0.03246
100
90
80
70
60
50
40
30
20

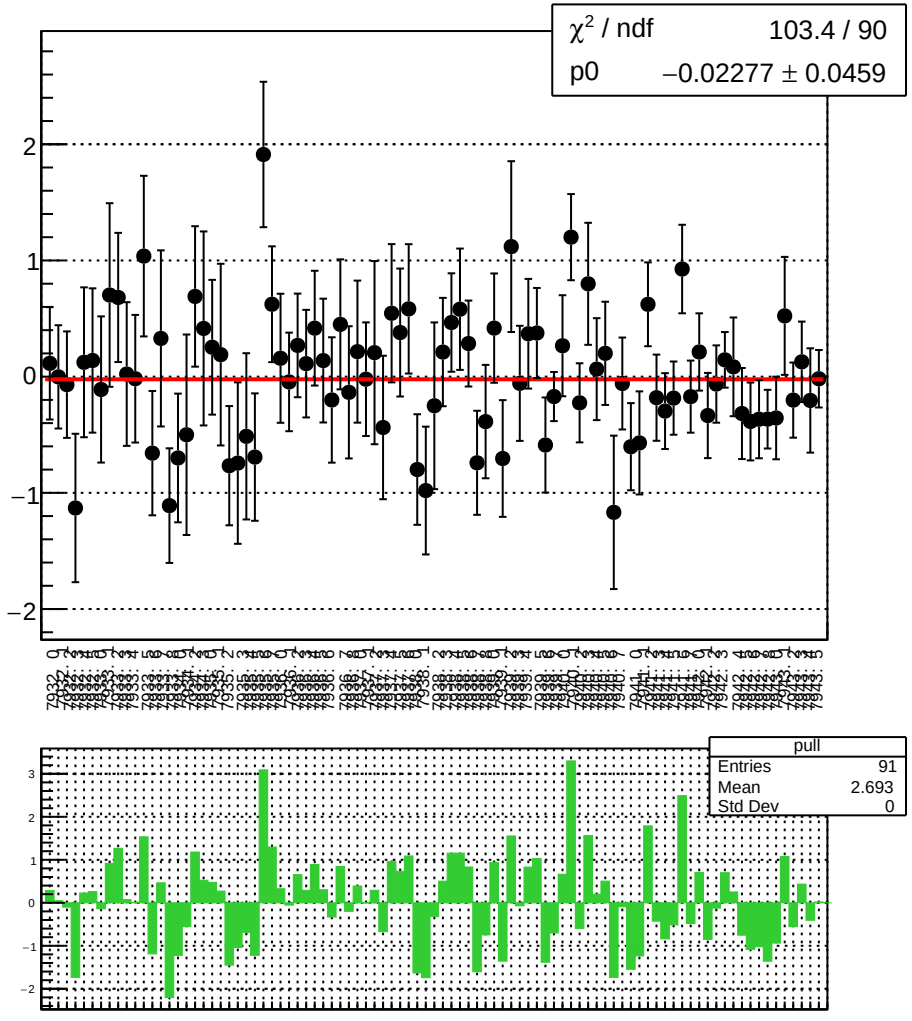

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.14 / 90
p0 −1.121e−06 ± 1.267e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean 1108
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.001908
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

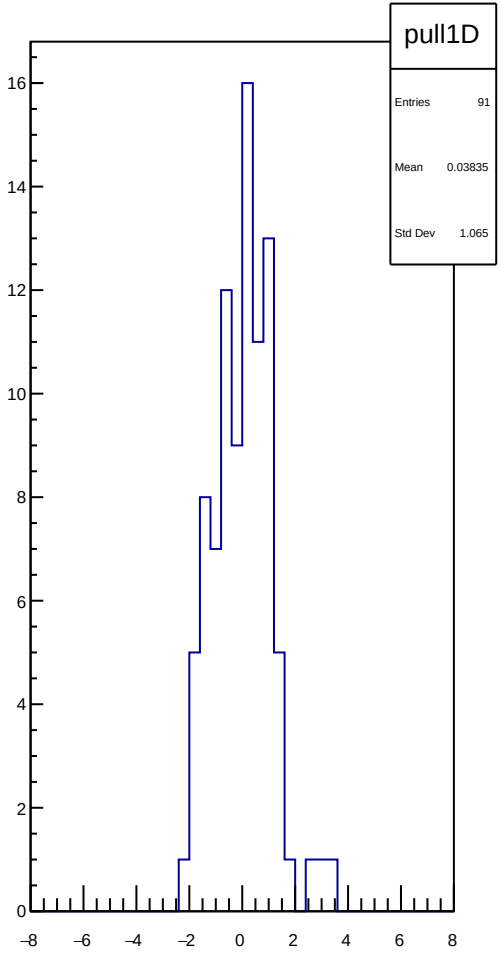

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1948 / 90
p0 0.001184 ± 8.961e−07
0.0013
0.00125
0.0012
0.00115
0.0011

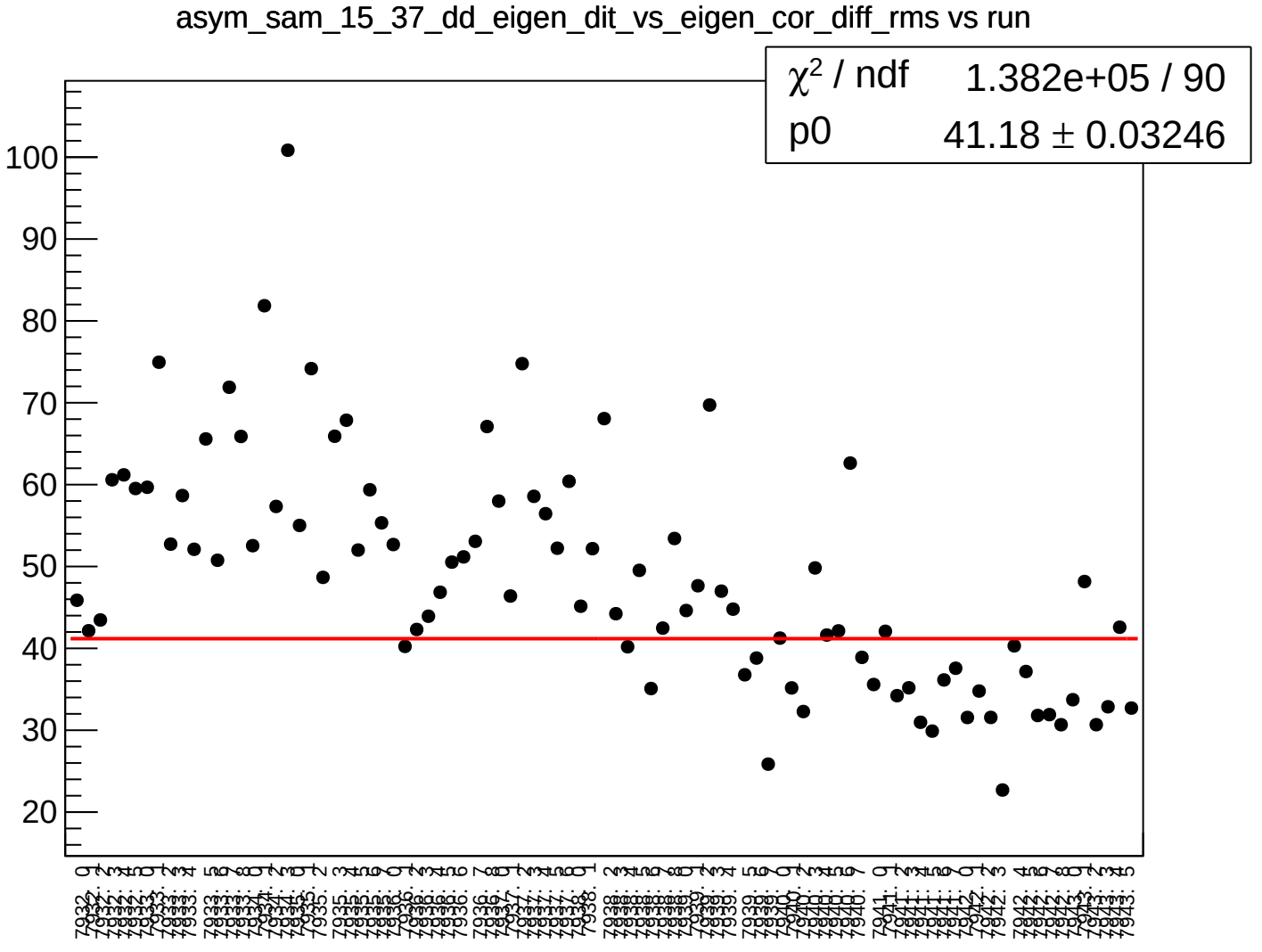

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 90
p0 −0.02277 ± 0.0459
pull
Entries 91
Mean 2.693
Std Dev 0
pull1D
Entries 91
Mean 0.03835
Std Dev 1.065

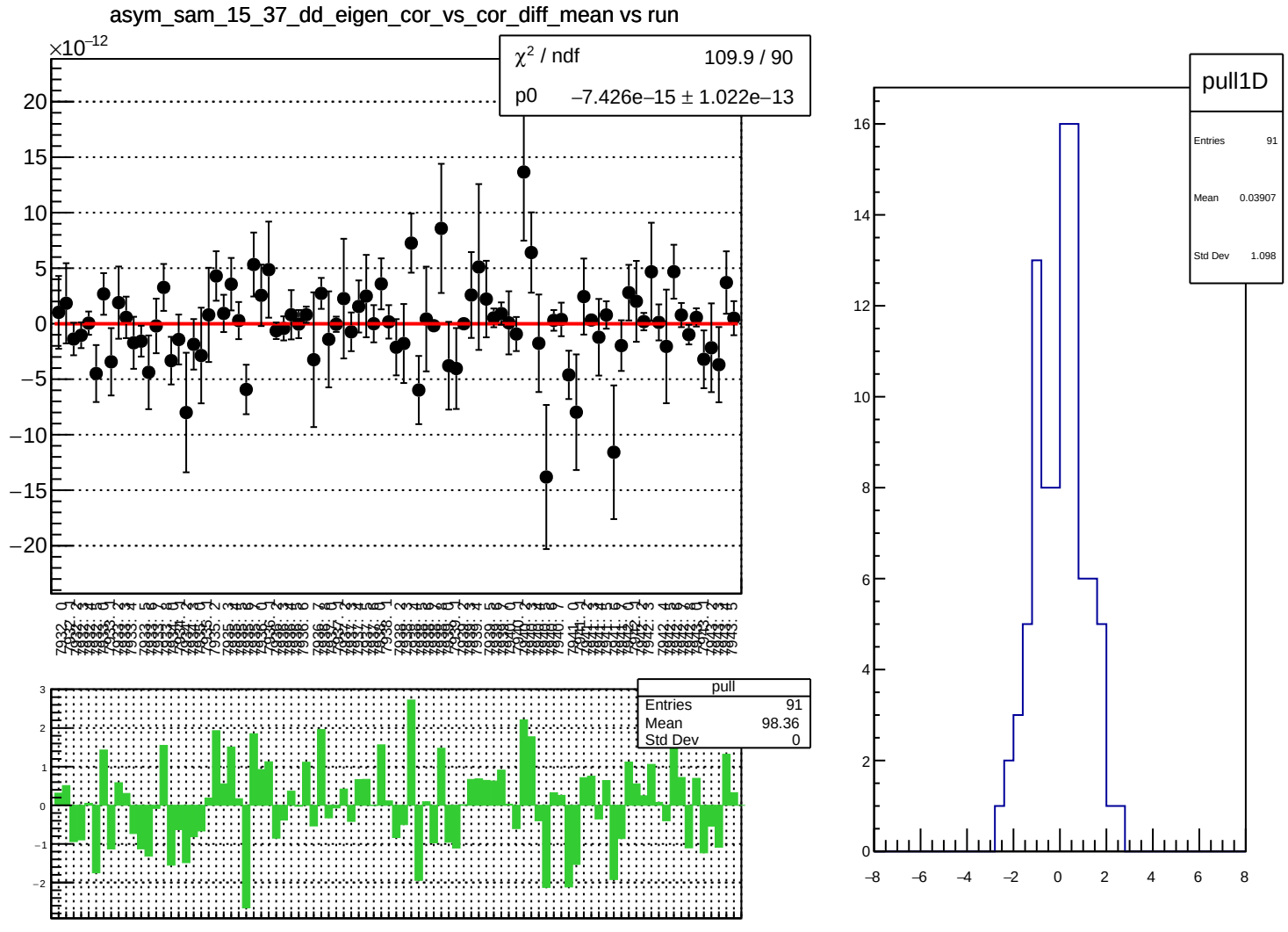

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.382e+05 / 90
p0 41.18 ± 0.03246
100
90
80
70
60
50
40
30
20

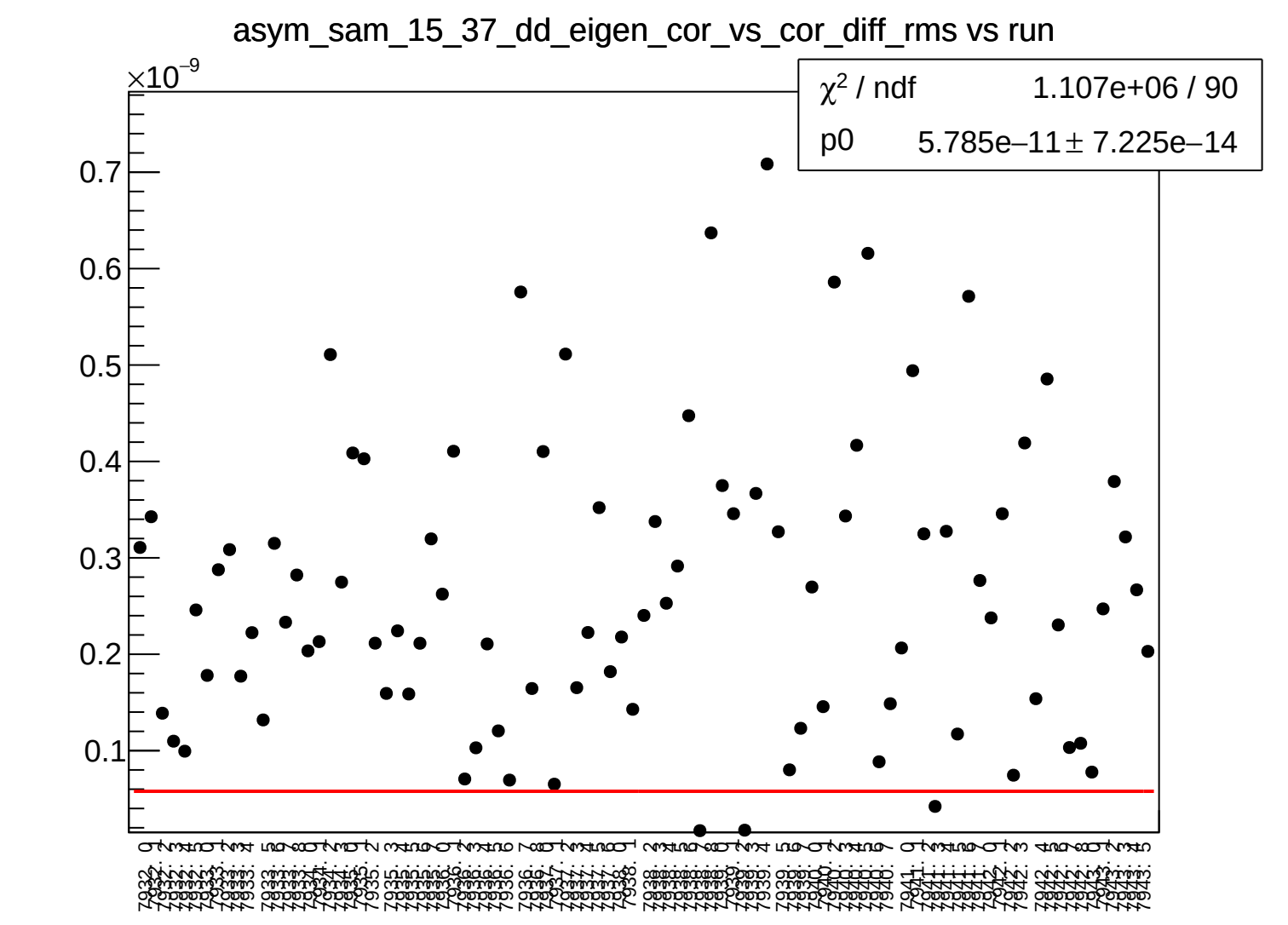
asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

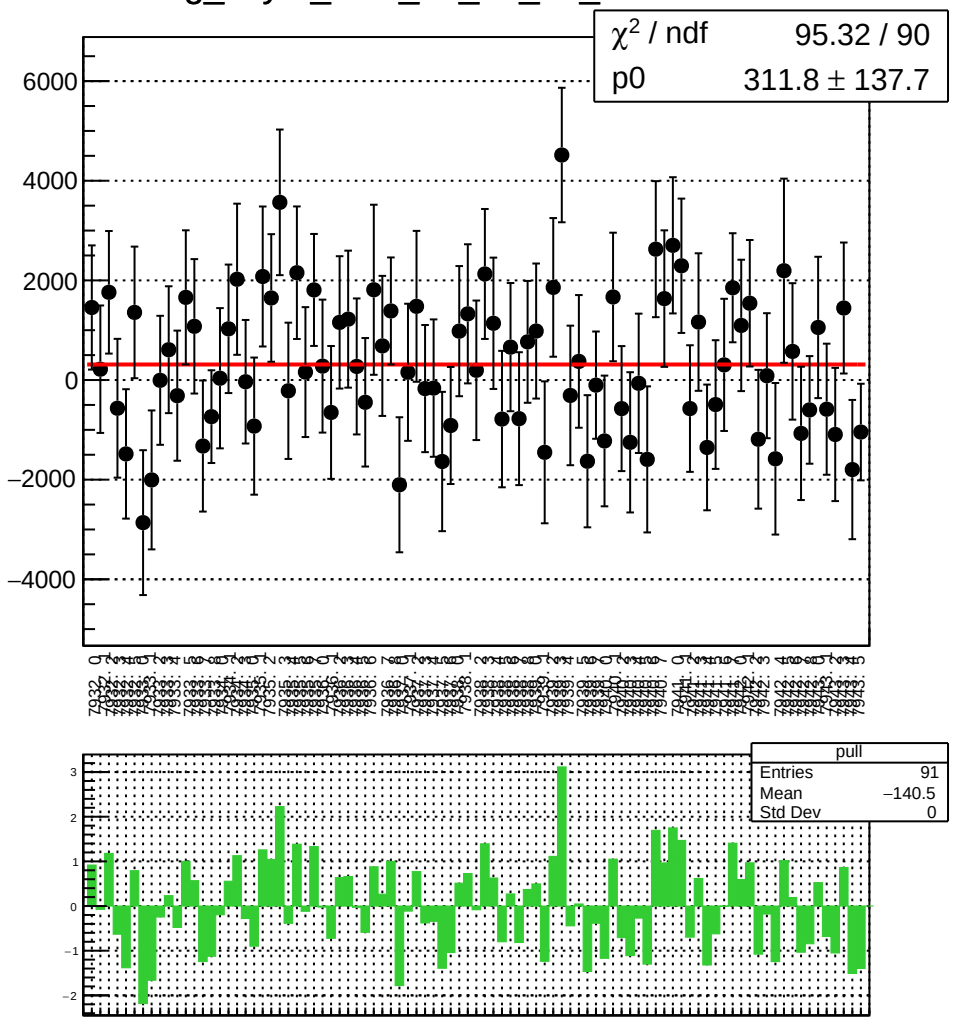


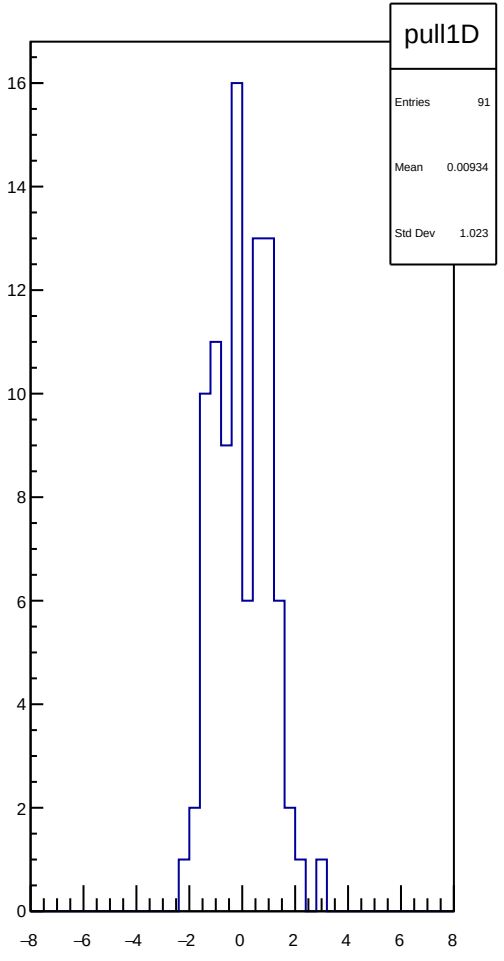


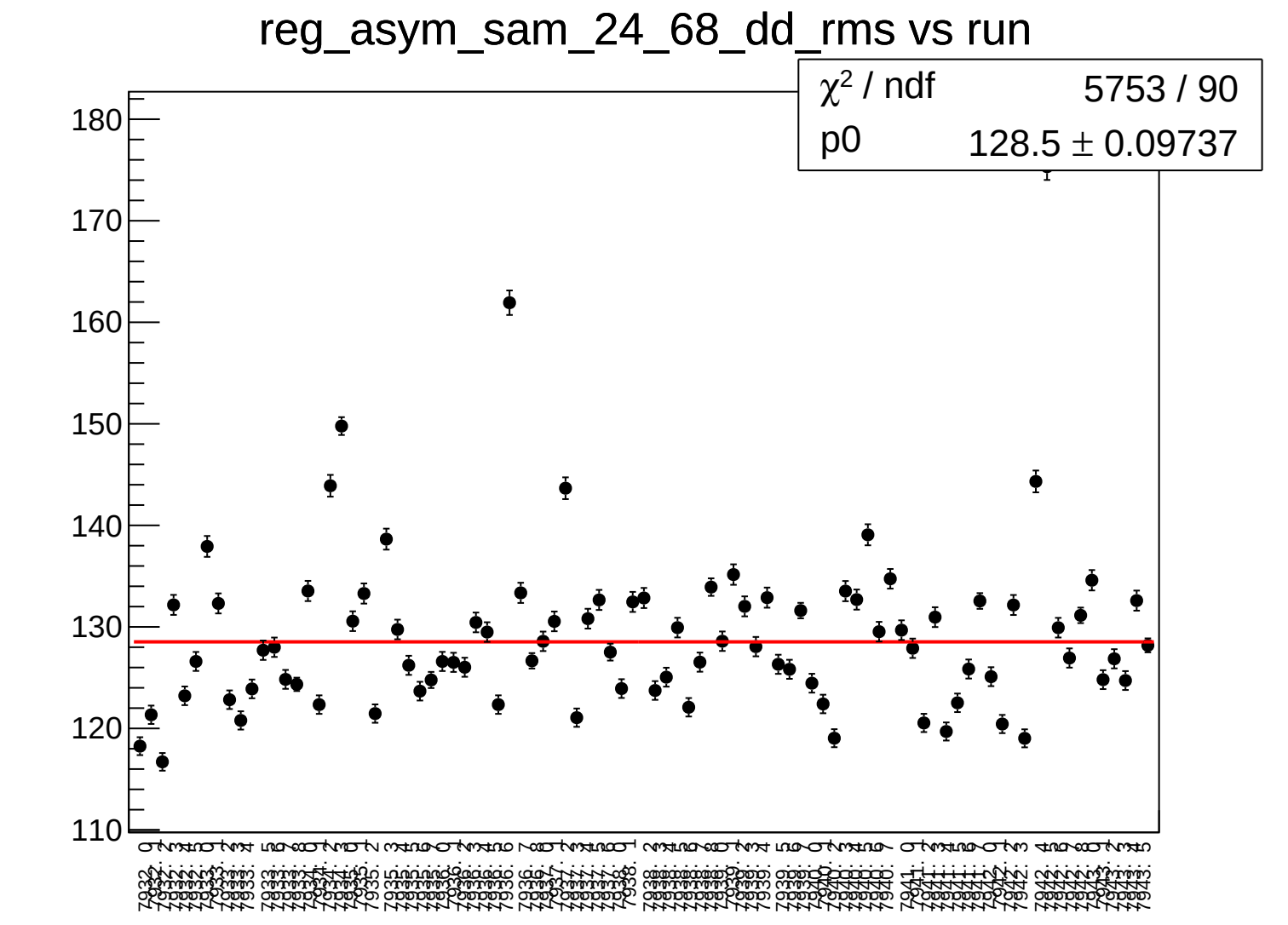

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.382e+05 / 90
p0 41.18 ± 0.03246
100
90
80
70
60
50
40
30
20

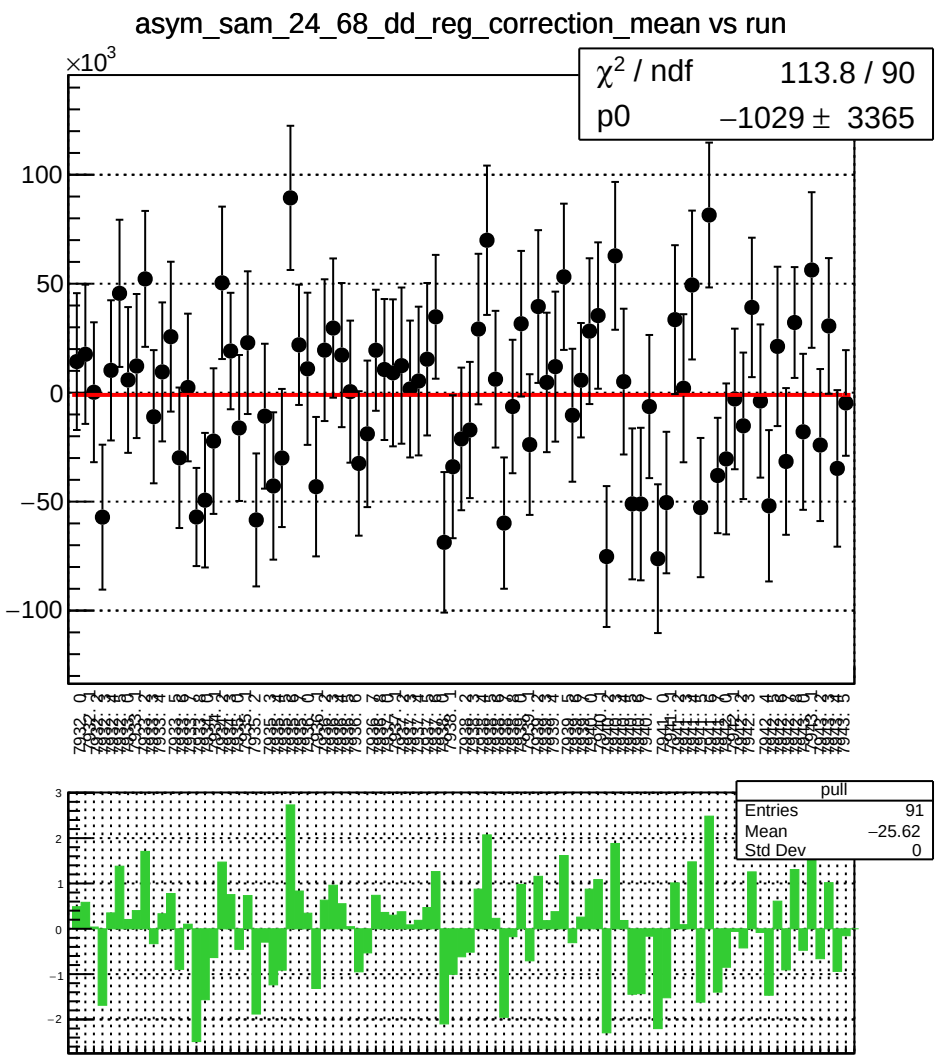

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.9 / 90
p0 −7.426e−15 ± 1.022e−13
pull
Entries 91
Mean 98.36
Std Dev 0
pull1D
Entries 91
Mean 0.03907
Std Dev 1.098

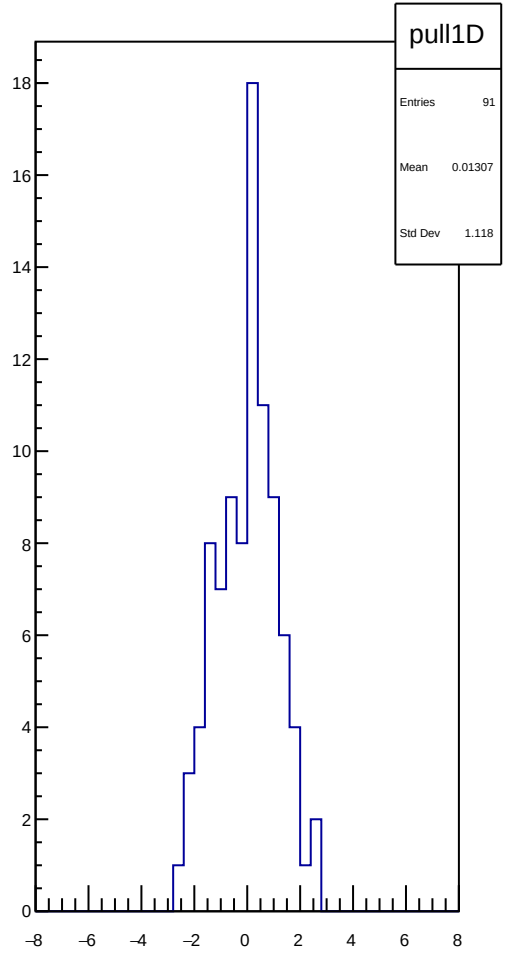

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.107e+06 / 90
p0 5.785e−11 ± 7.225e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

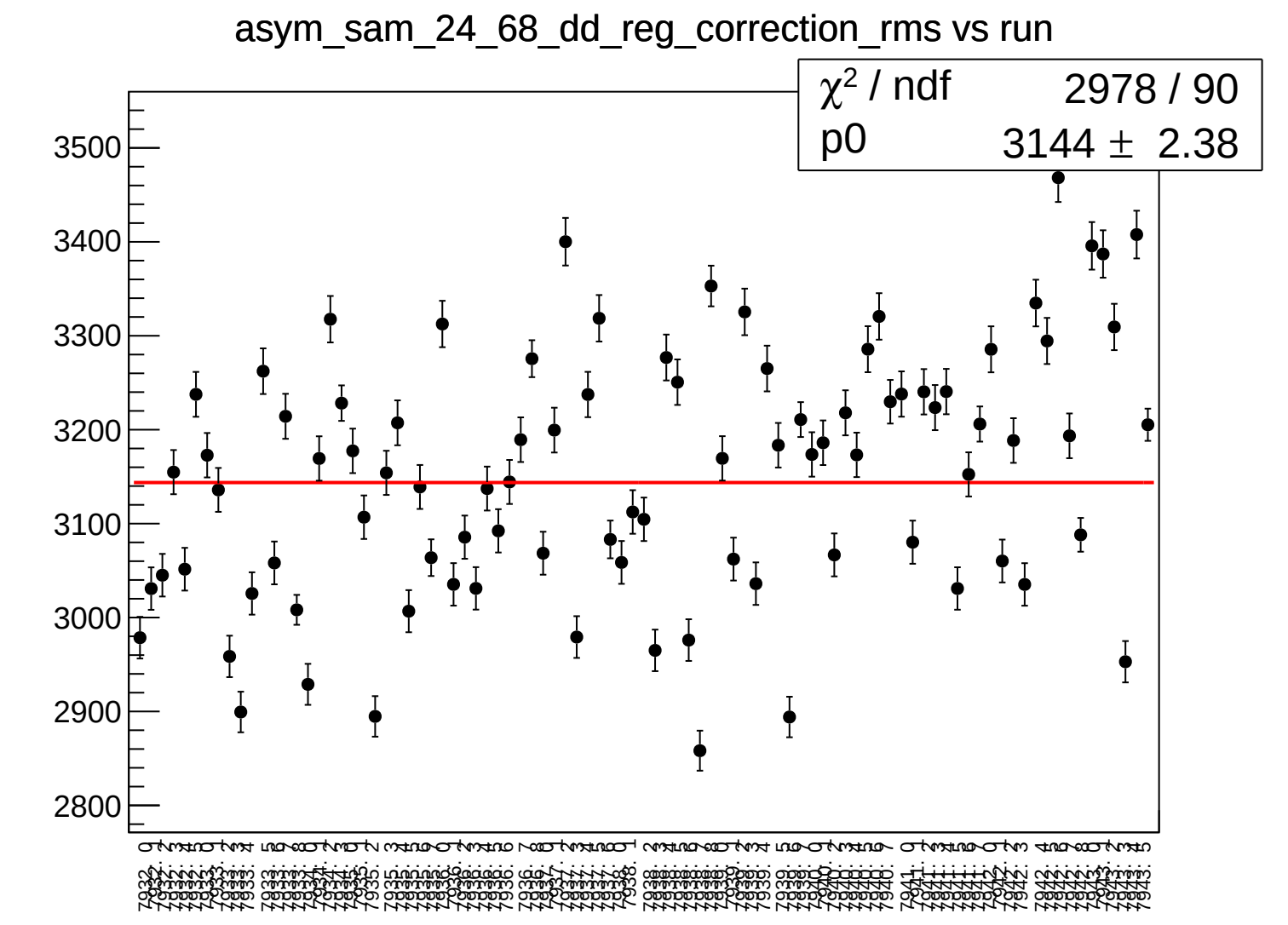

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.32 / 90
p0 311.8 ± 137.7
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −140.5
Std Dev 0
3
2
1
0
−1
−2

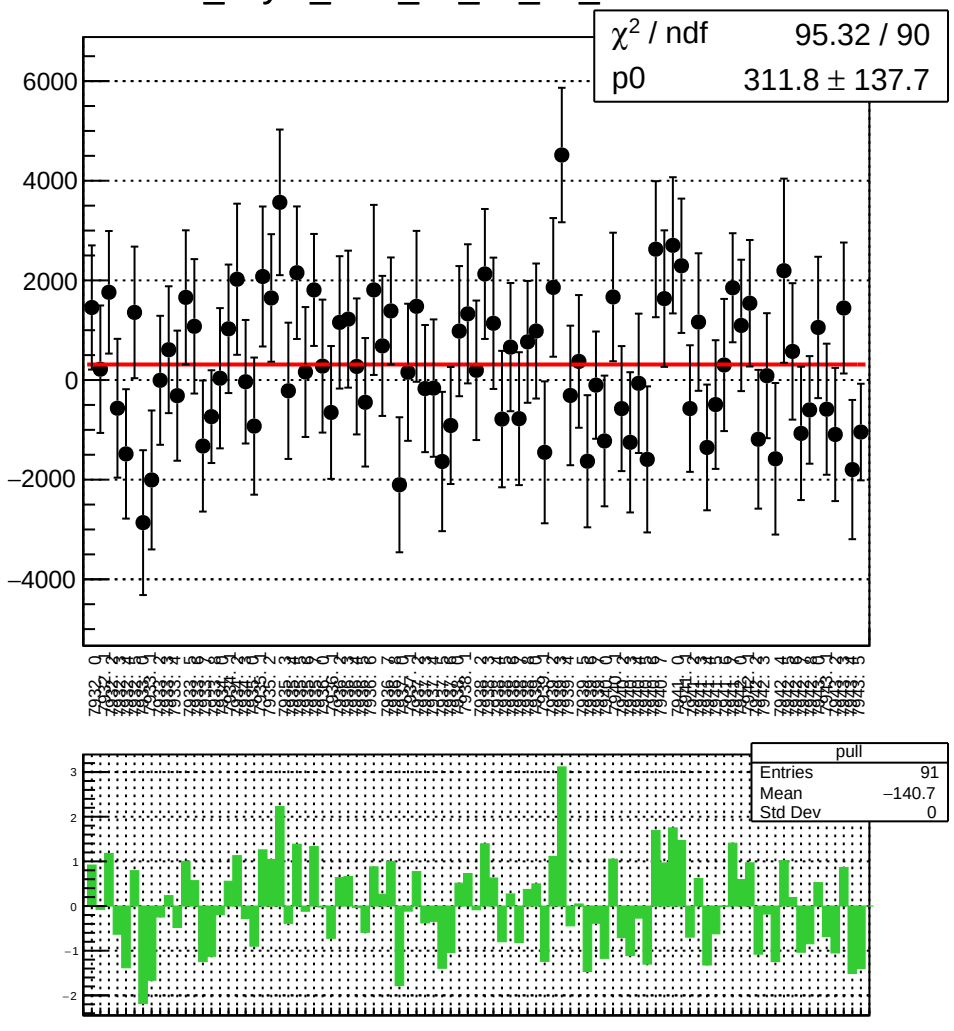

pull1D
Entries 91
Mean 0.00934
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

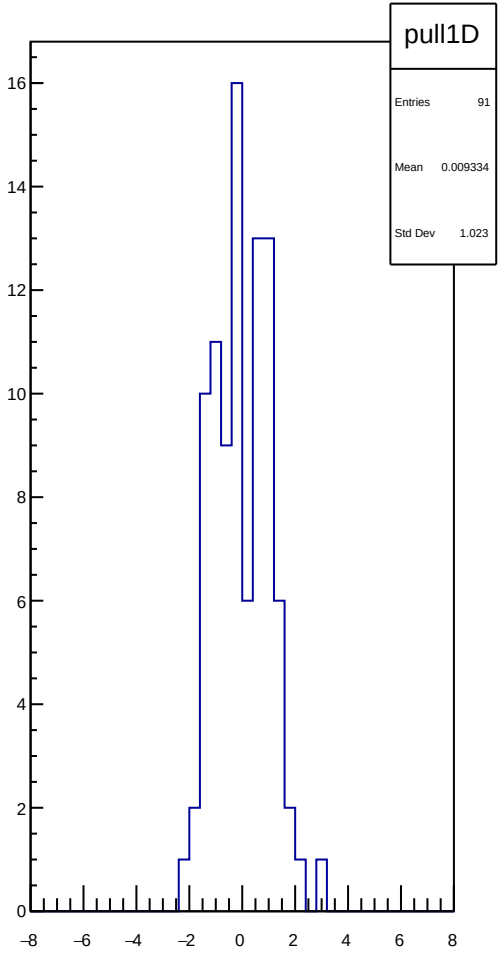

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5753 / 90
p0 128.5 ± 0.09737
180
170
160
150
140
130
120
110

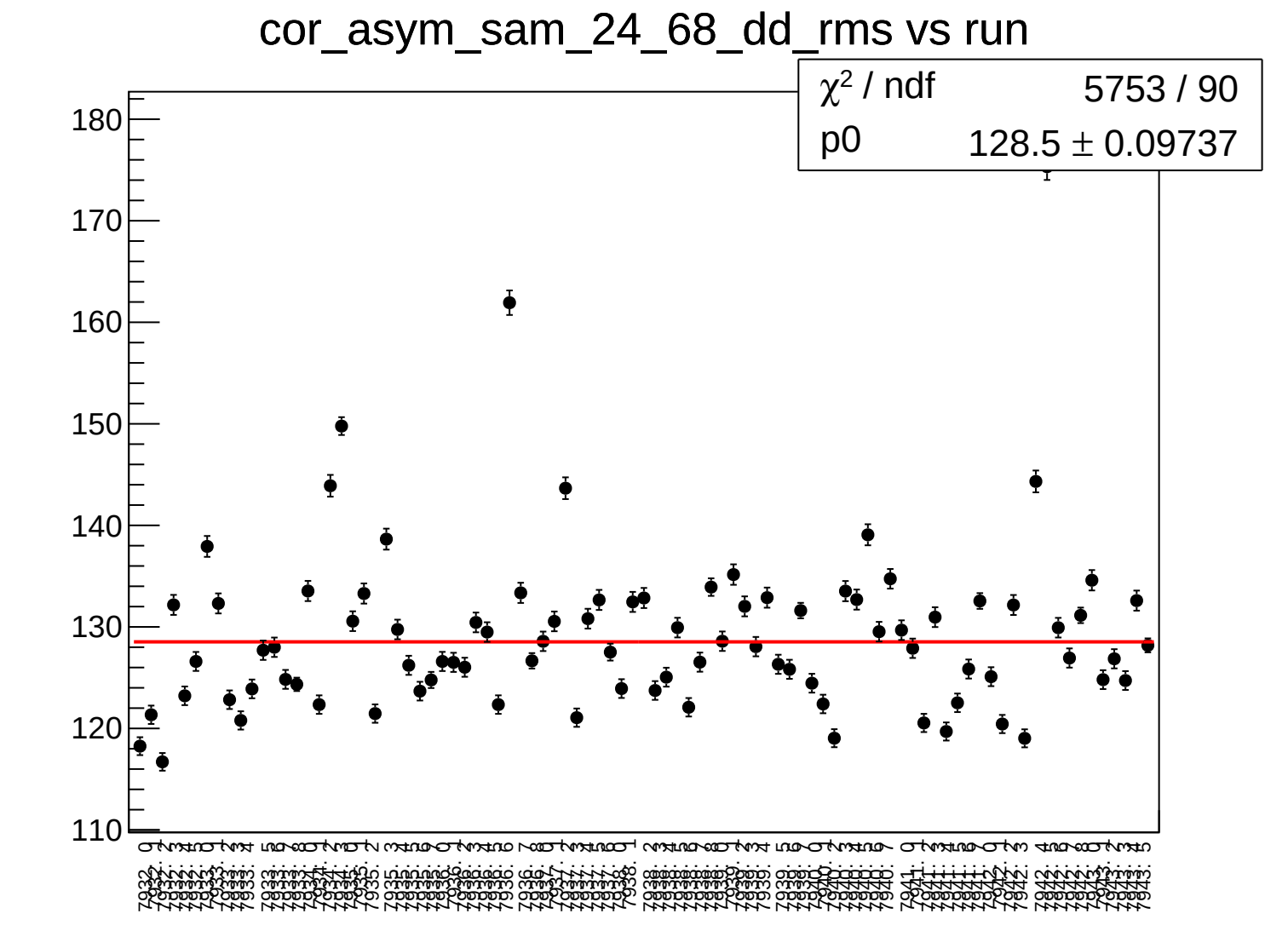

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 113.8 / 90
p0 −1029 ± 3365
100
50
0
−50
−100
pull
Entries 91
Mean −25.62
Std Dev 0
3
2
1
0
−1
−2

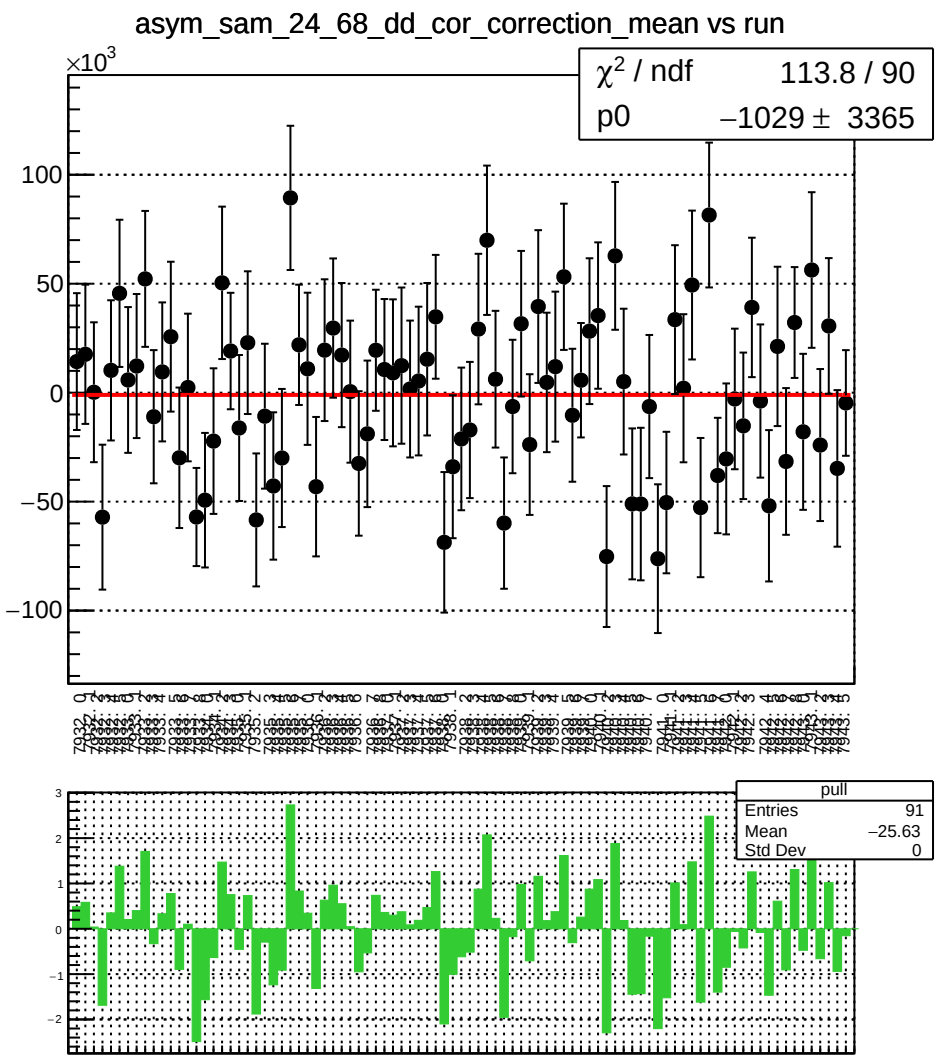

pull1D
Entries 91
Mean 0.01307
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

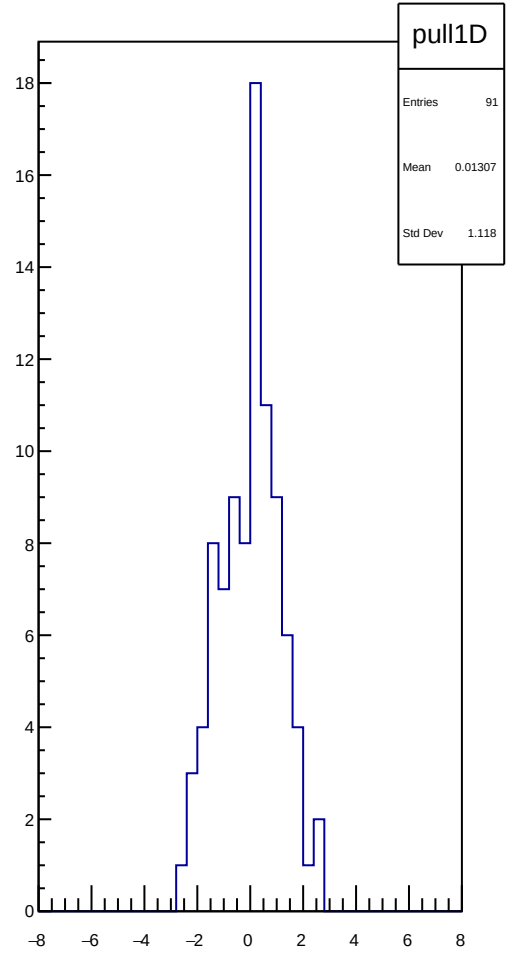

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2978 / 90
p0 3144 ± 2.38
3500
3400
3300
3200
3100
3000
2900
2800

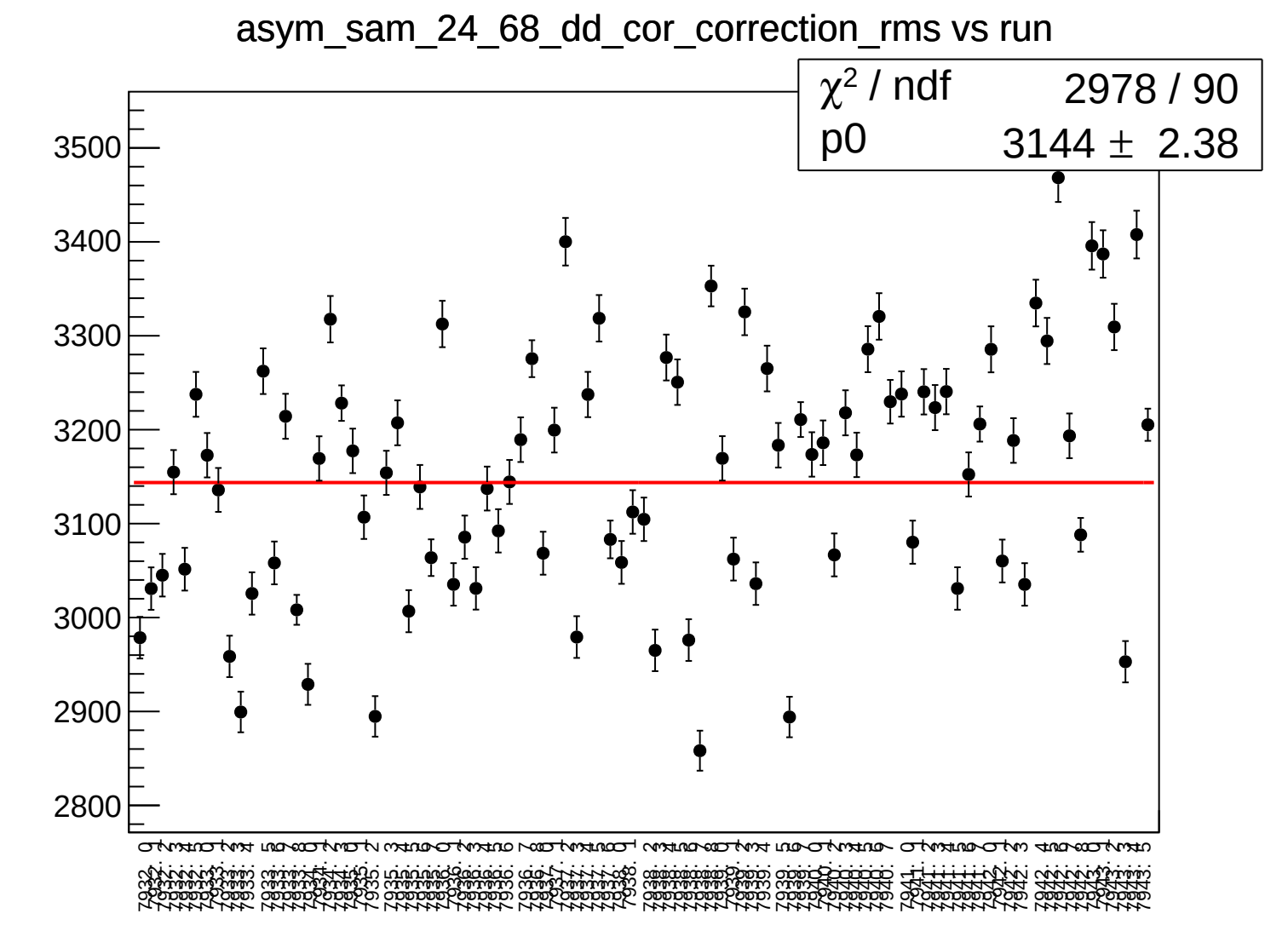

cor_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 95.32 / 90
p0 311.8 ± 137.7
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −140.7
Std Dev 0
3
2
1
0
−1
−2

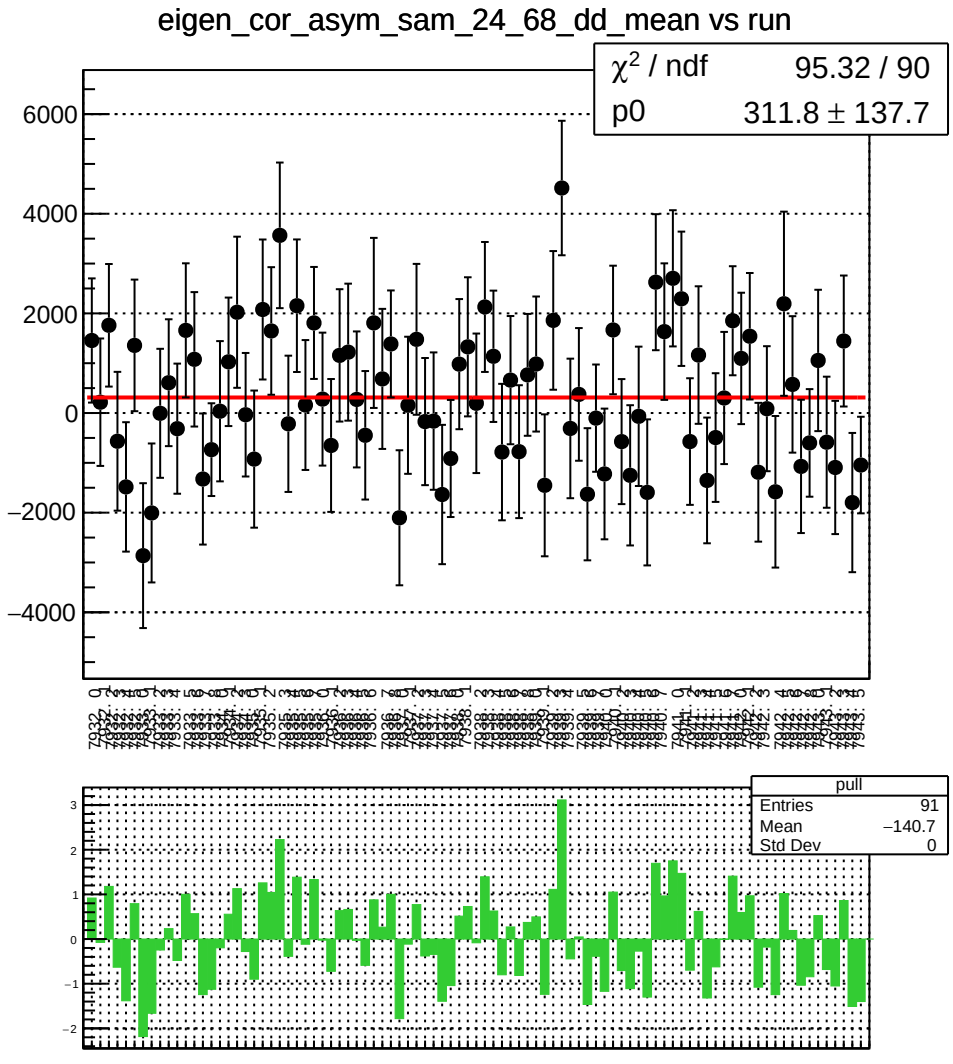

pull1D
Entries 91
Mean 0.009334
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

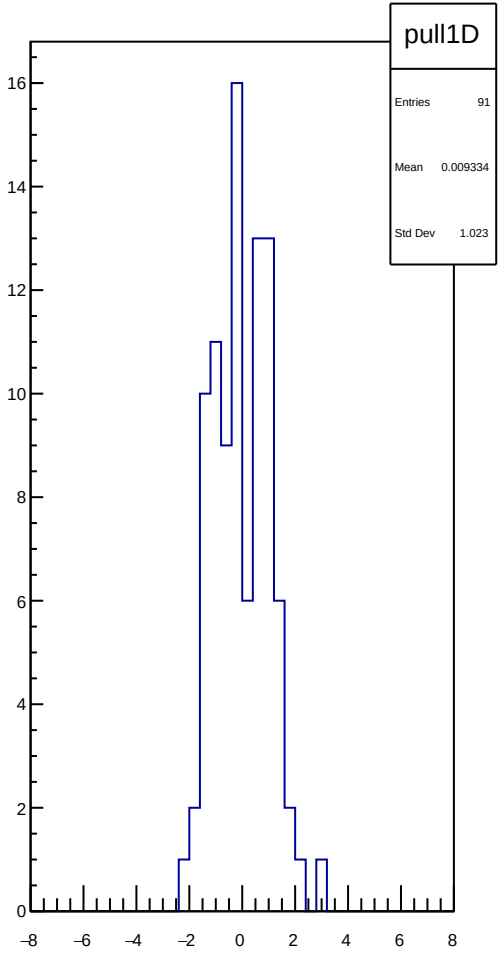

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5753 / 90
p0 128.5 ± 0.09737
180
170
160
150
140
130
120
110

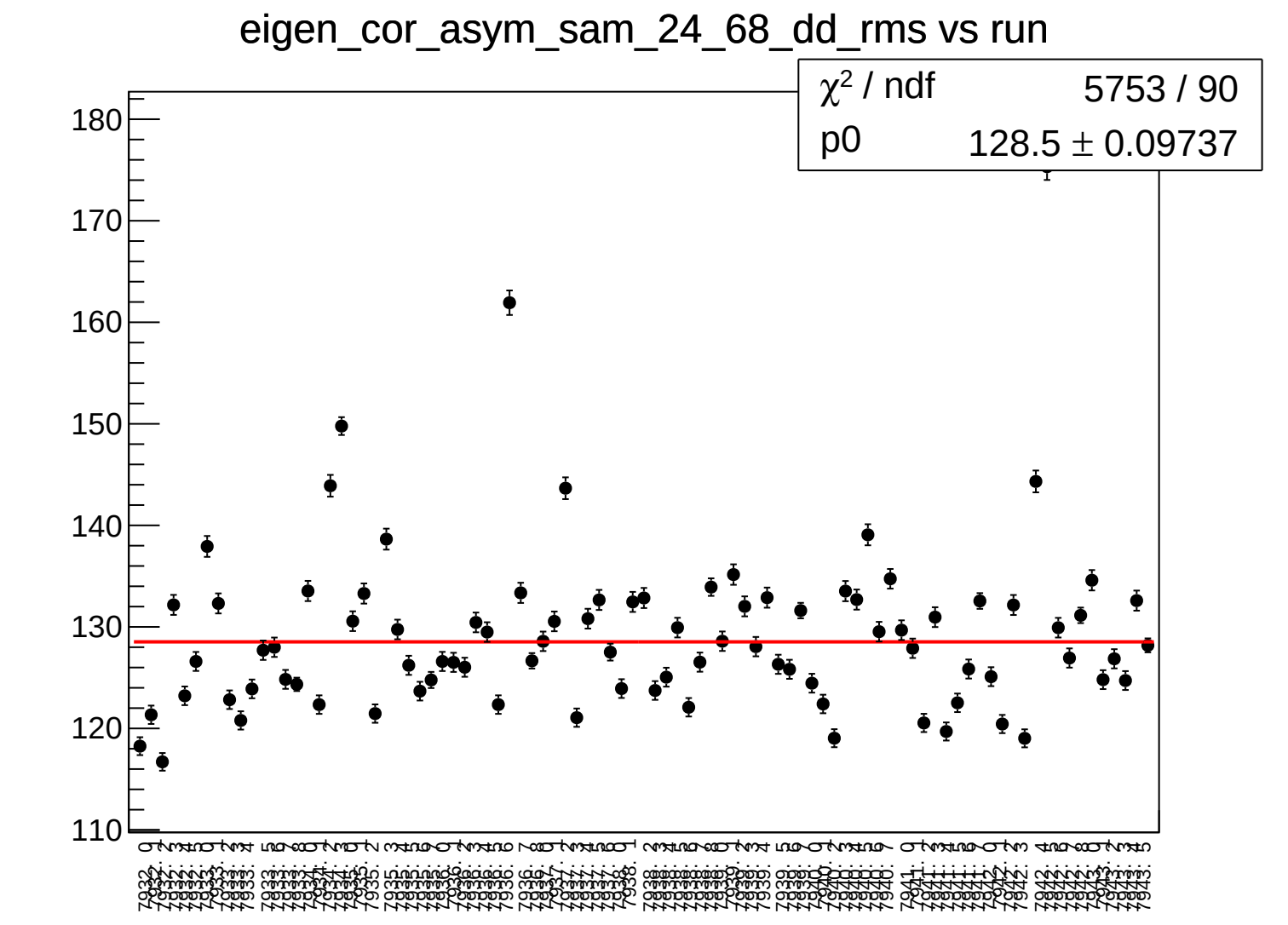

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 113.8 / 90
p0 −1029 ± 3365
100
50
0
−50
−100
pull
Entries 91
Mean −25.63
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01307
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

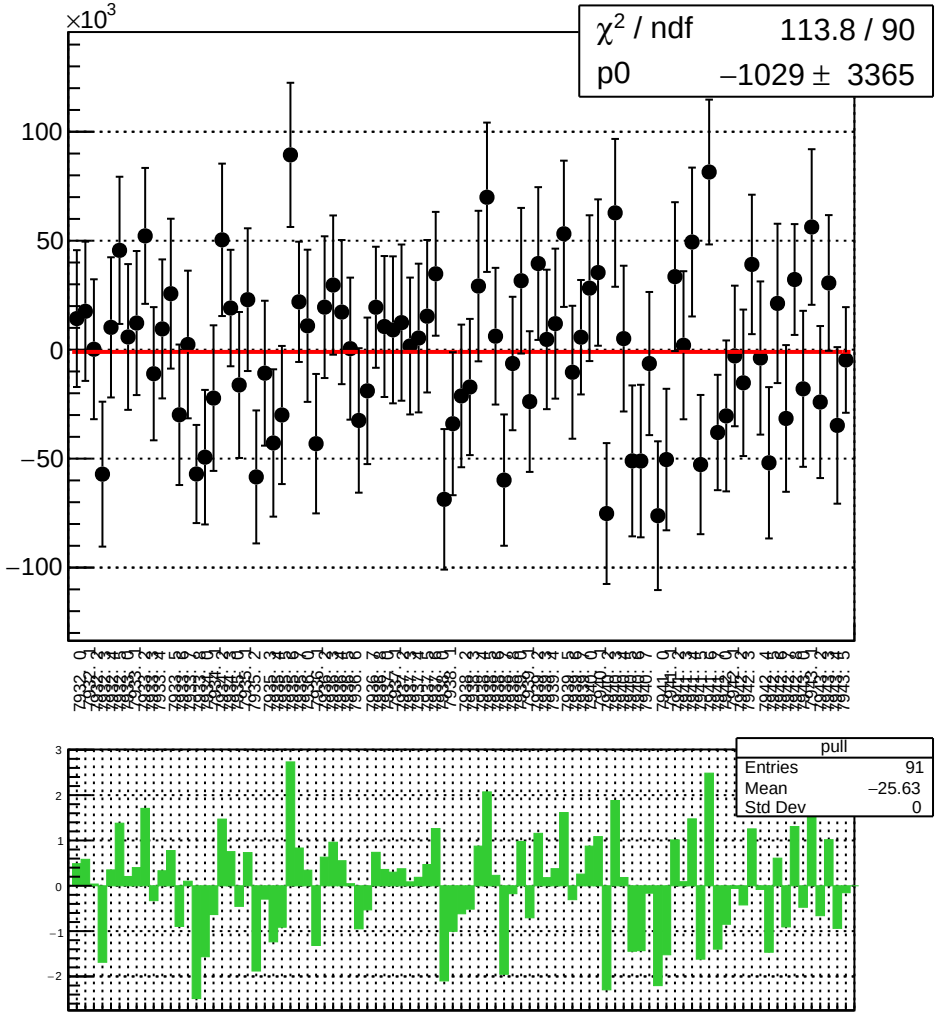

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2978 / 90
p0 3144 ± 2.38
3500
3400
3300
3200
3100
3000
2900
2800

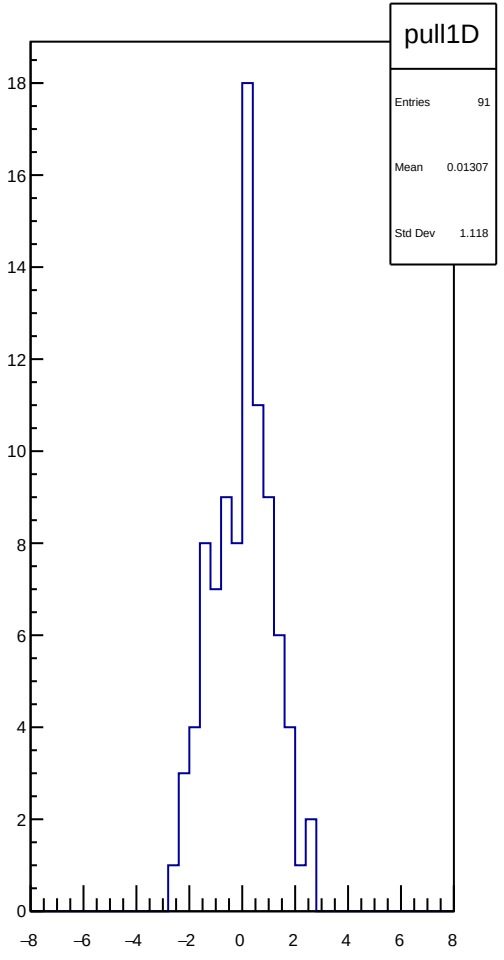

eigen_cor_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 95.32 / 90
p0 311.8 ± 137.7
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −140.7
Std Dev 0
3
2
1
0
−1
−2

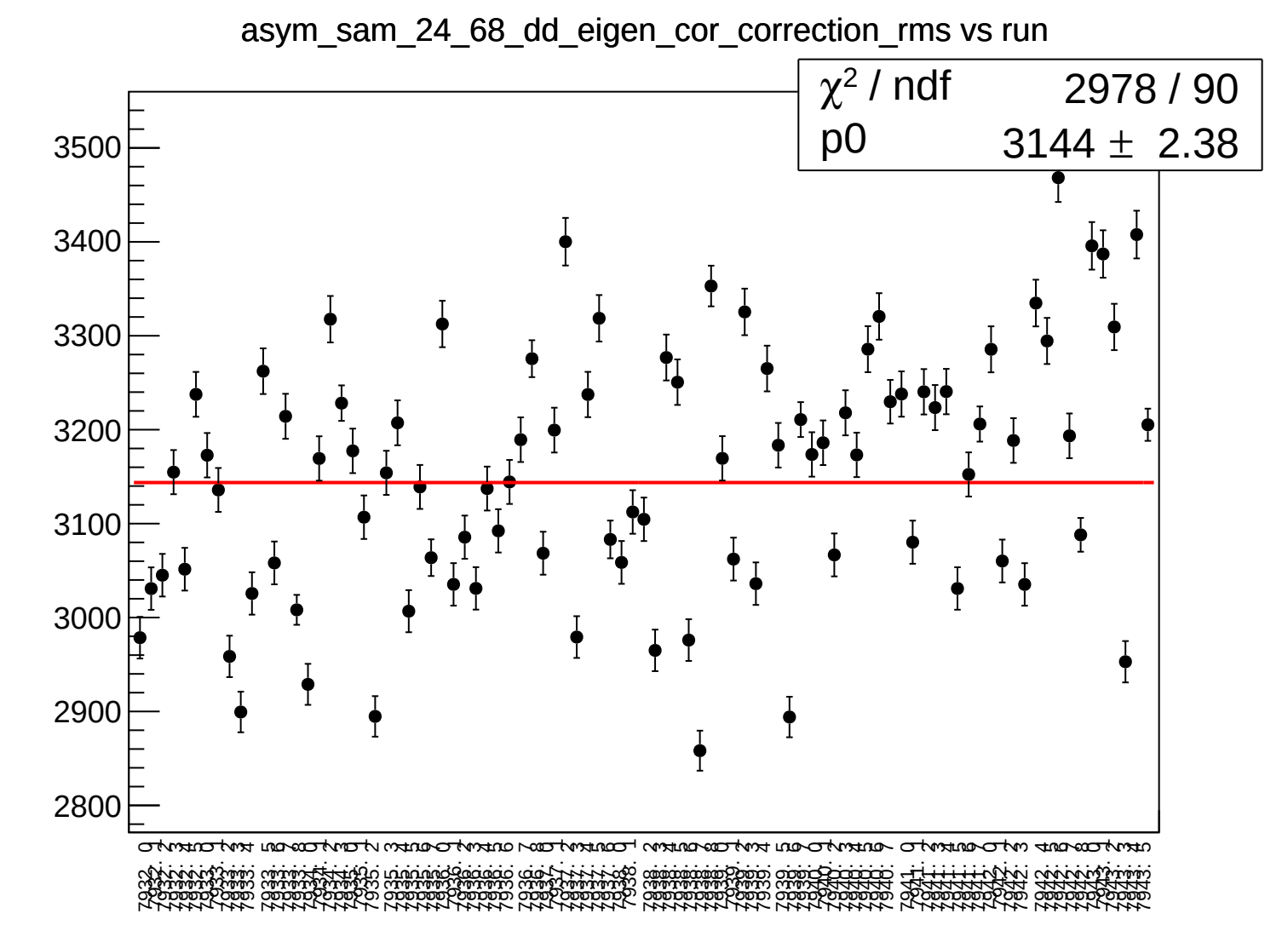

pull1D
Entries 91
Mean 0.009334
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

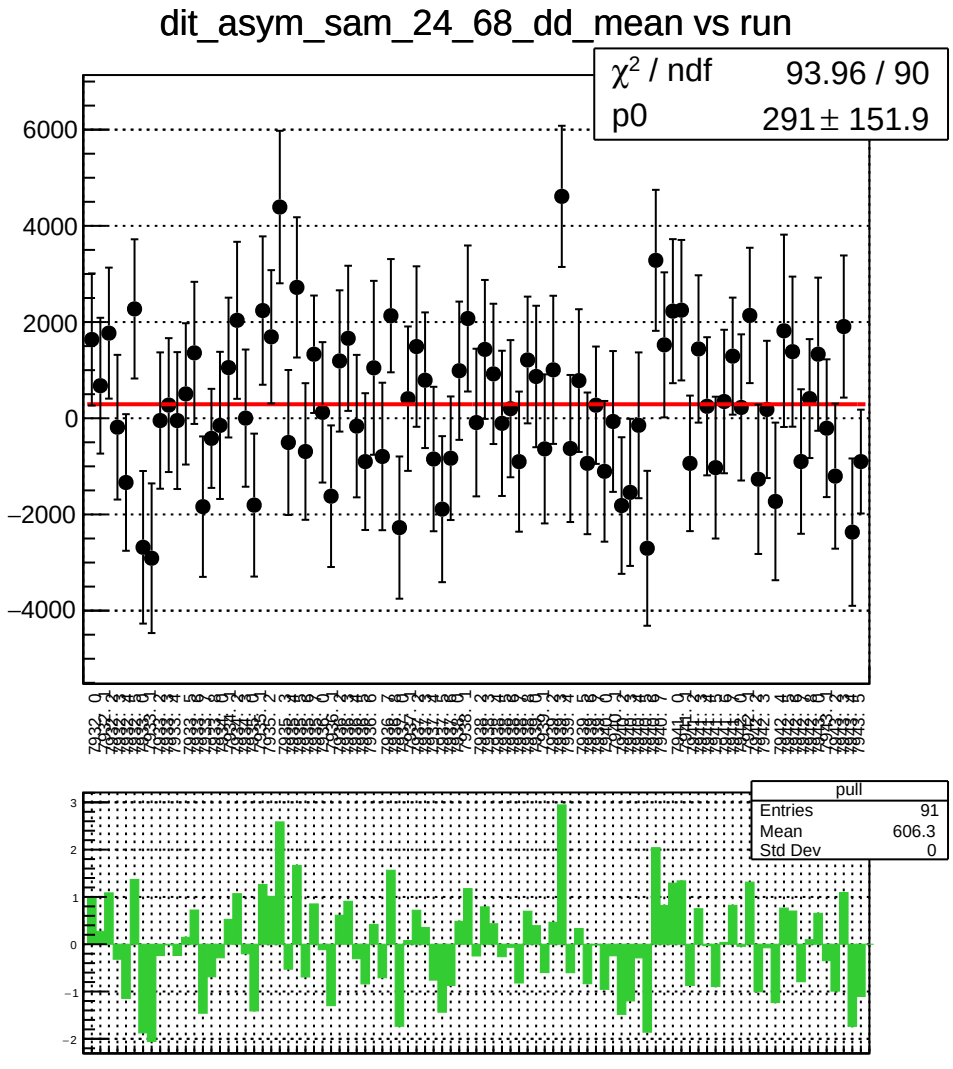

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5753 / 90
p0 128.5 ± 0.09737
180
170
160
150
140
130
120
110

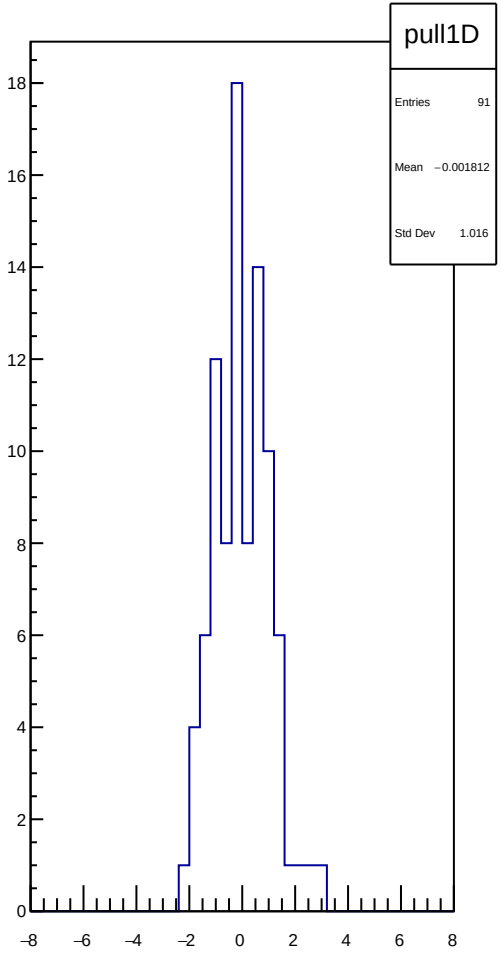
asym_sam_24_68_dd_eigen_cor_correction_mean vs run

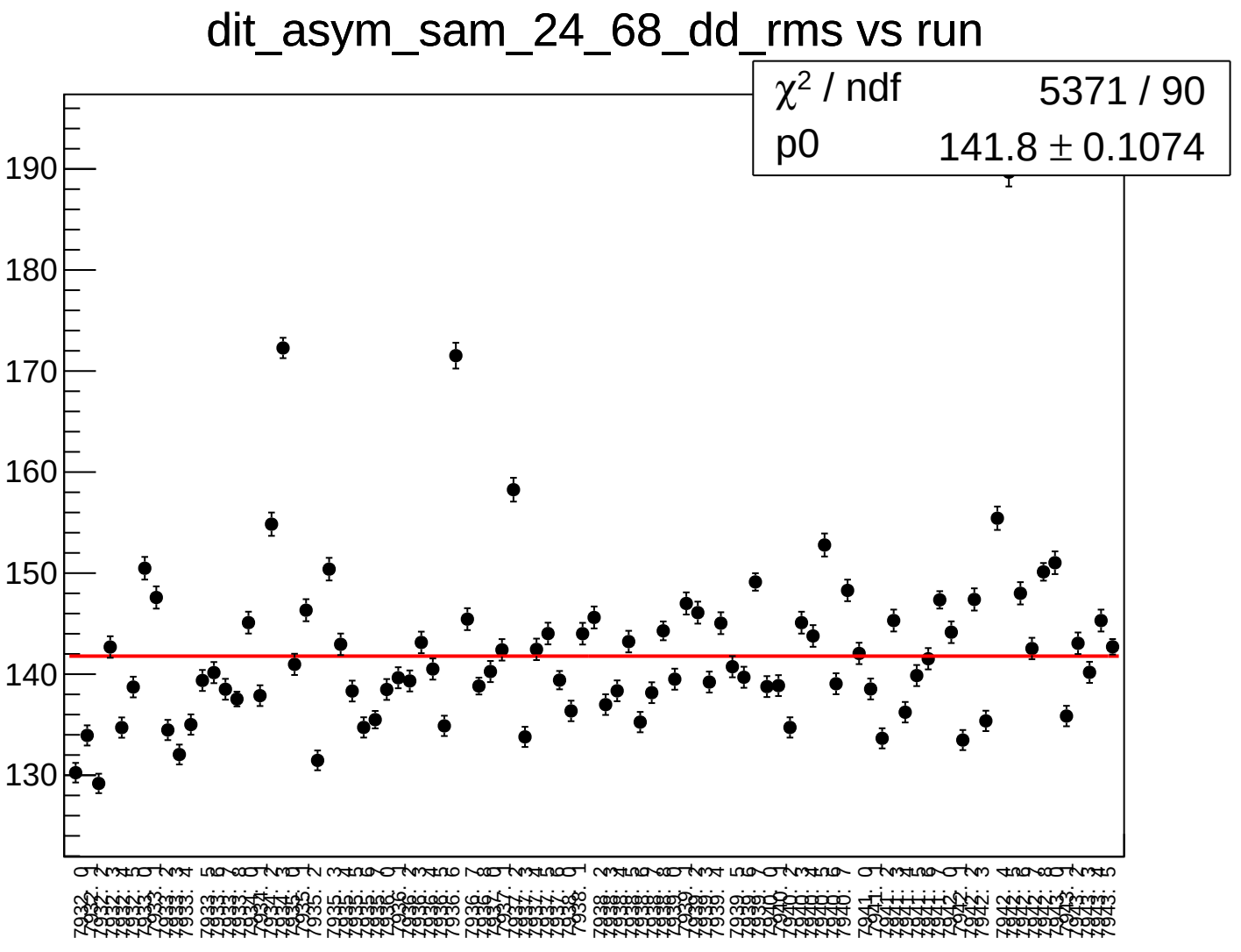


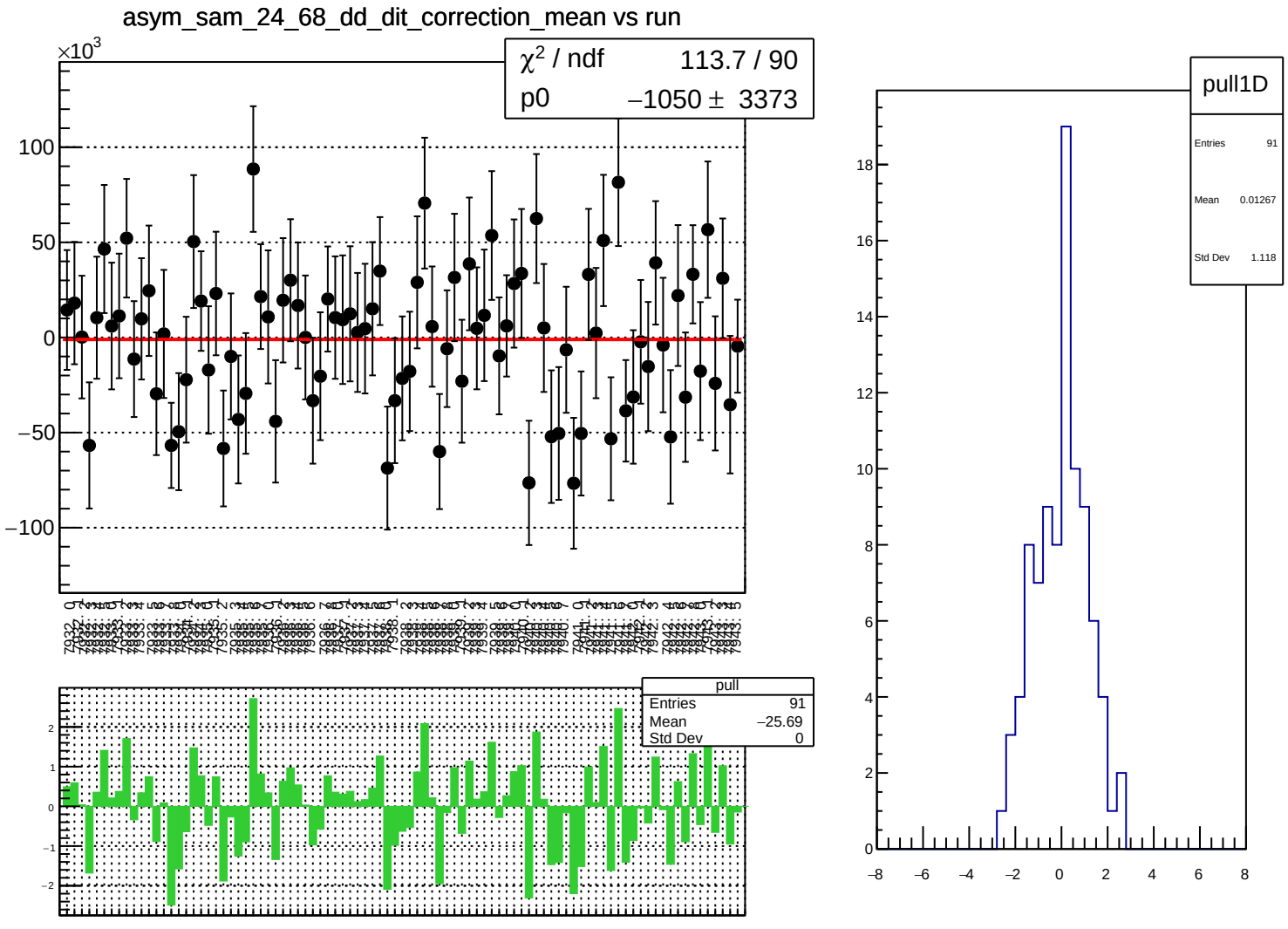


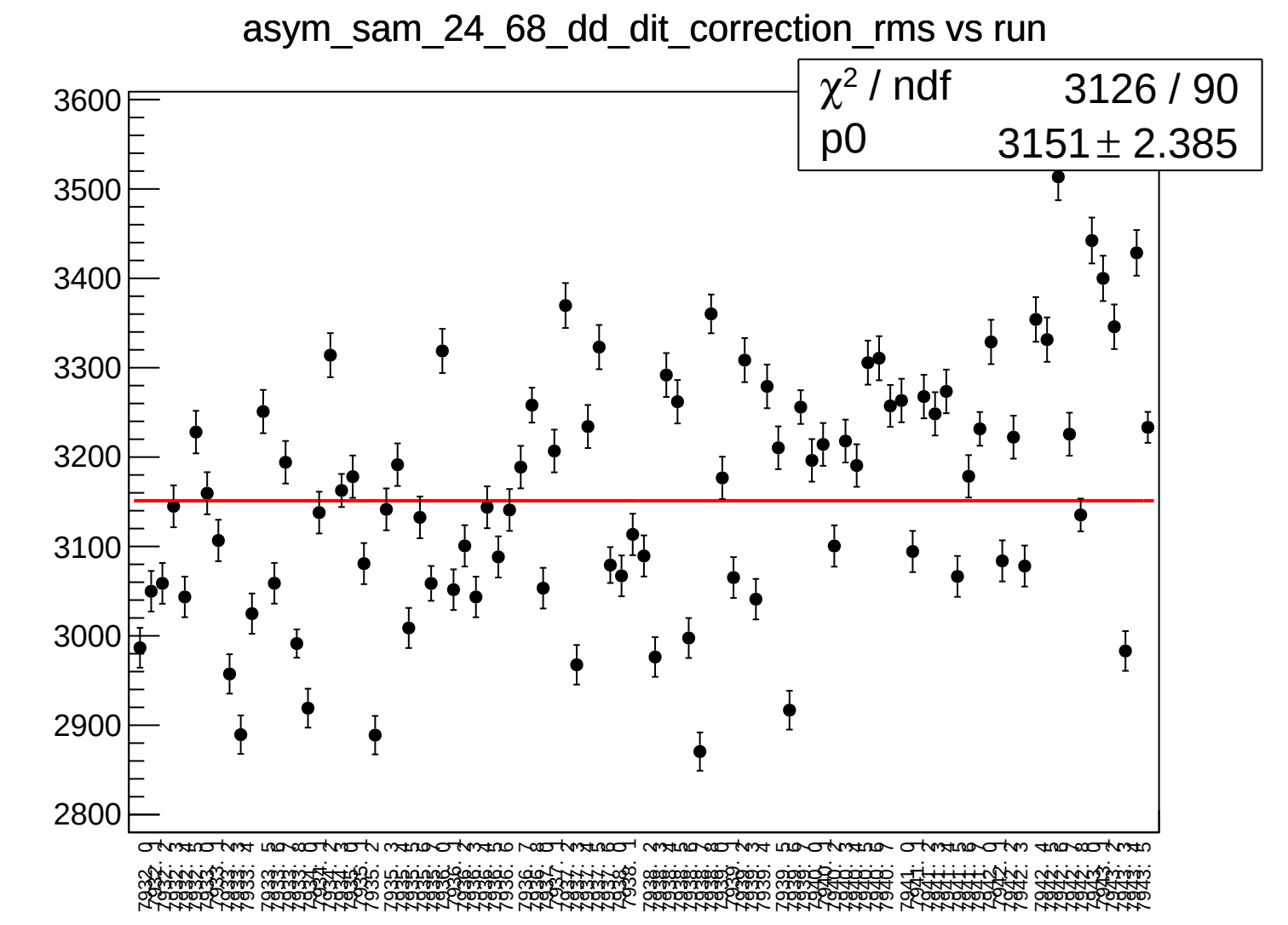

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2978 / 90
p0 3144 ± 2.38
3500
3400
3300
3200
3100
3000
2900
2800

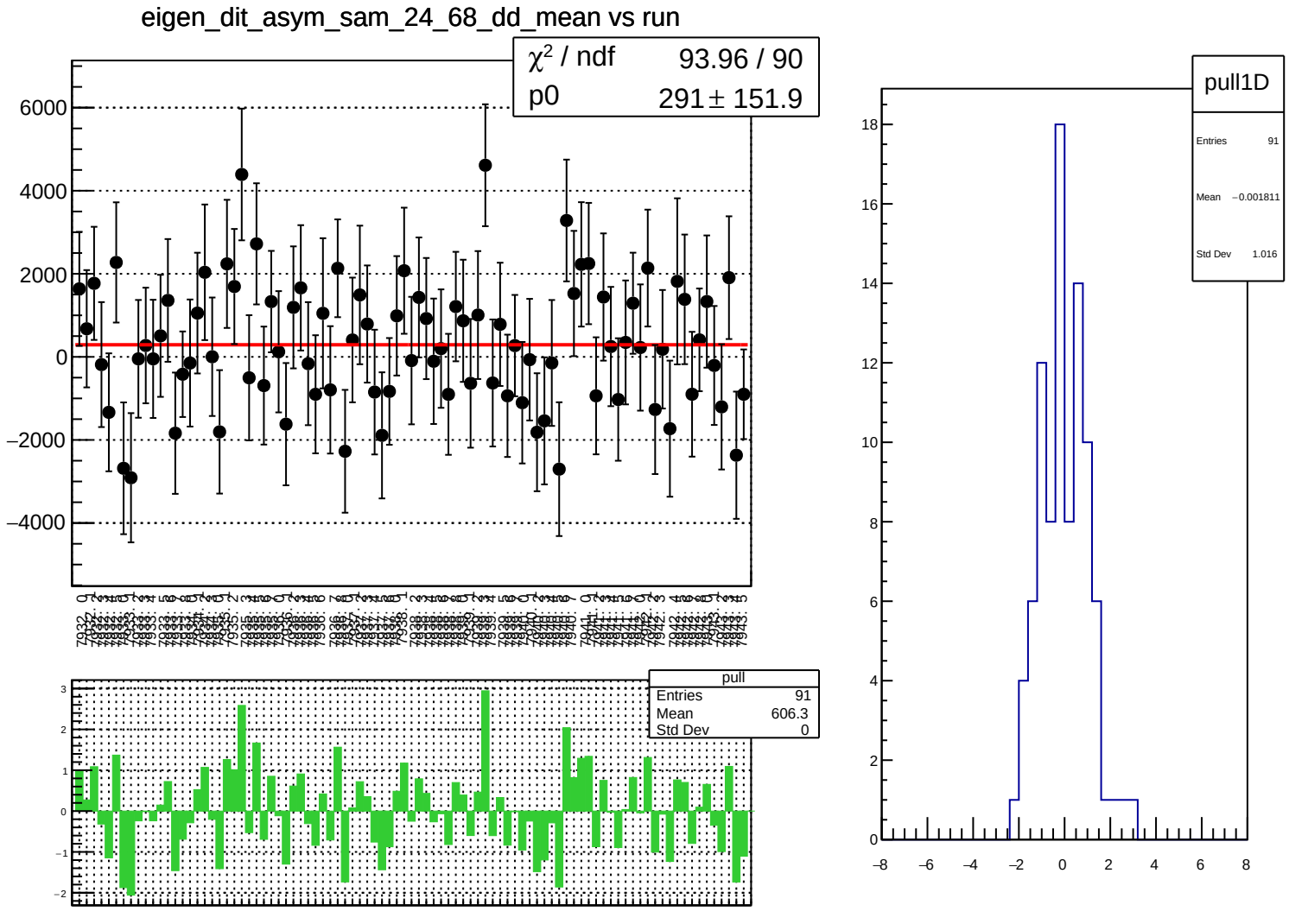

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.96 / 90
p0 291 ± 151.9
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 606.3
Std Dev 0
3
2
1
0
−1
−2

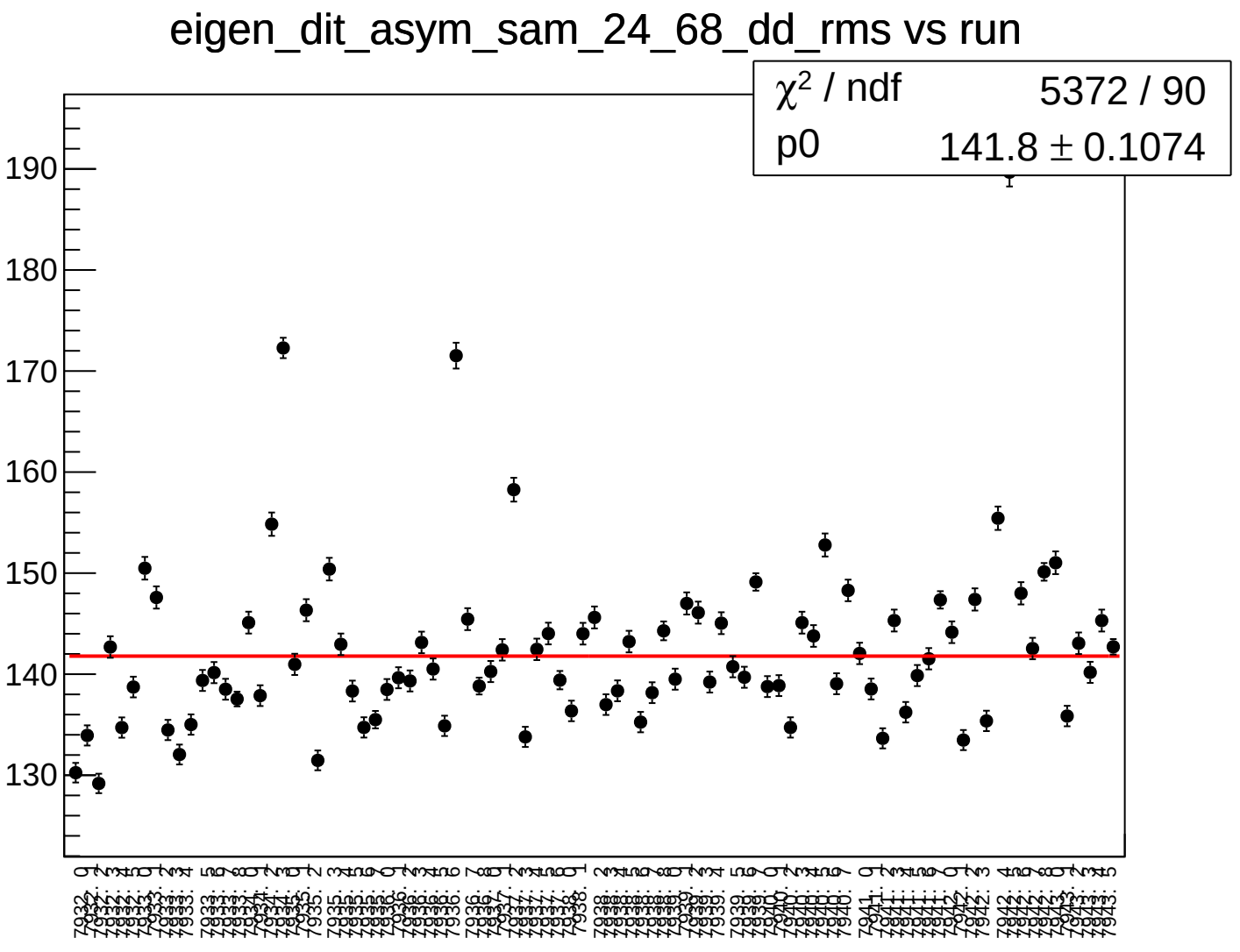

pull1D
Entries 91
Mean −0.001812
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

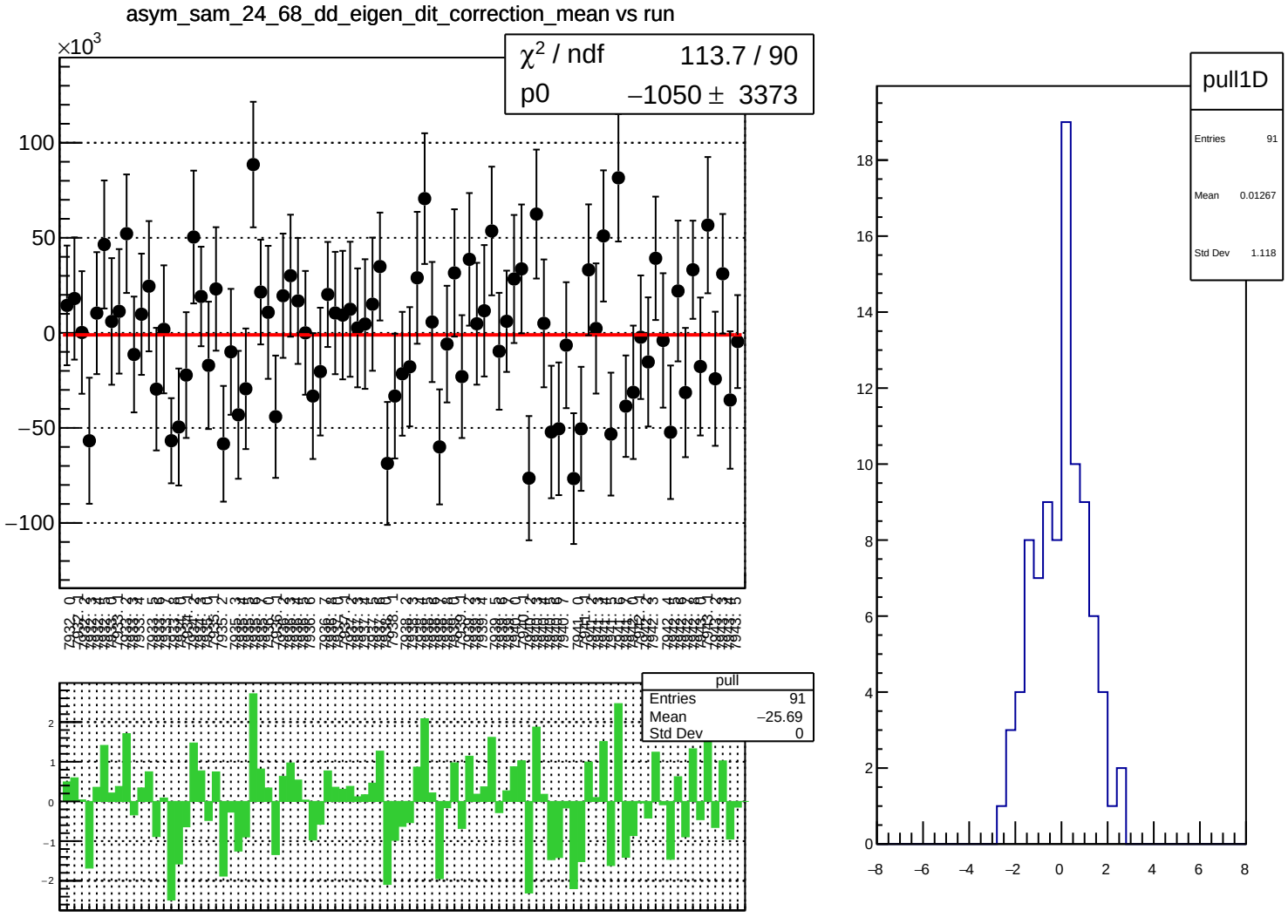

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5371 / 90
p0 141.8 ± 0.1074
190
180
170
160
150
140
130

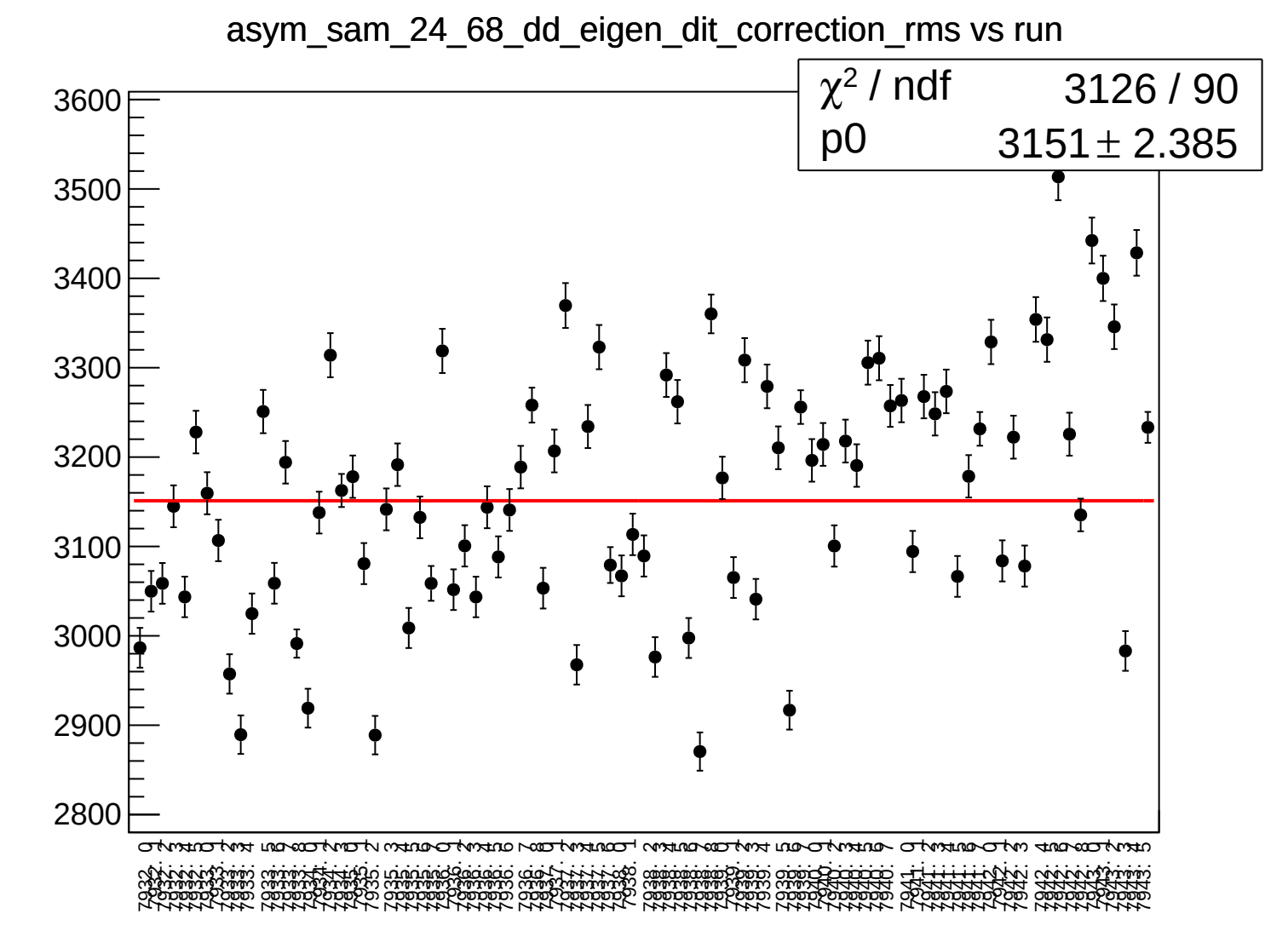

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 113.7 / 90
p0 −1050 ± 3373
100
50
0
−50
−100
pull
Entries 91
Mean −25.69
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01267
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

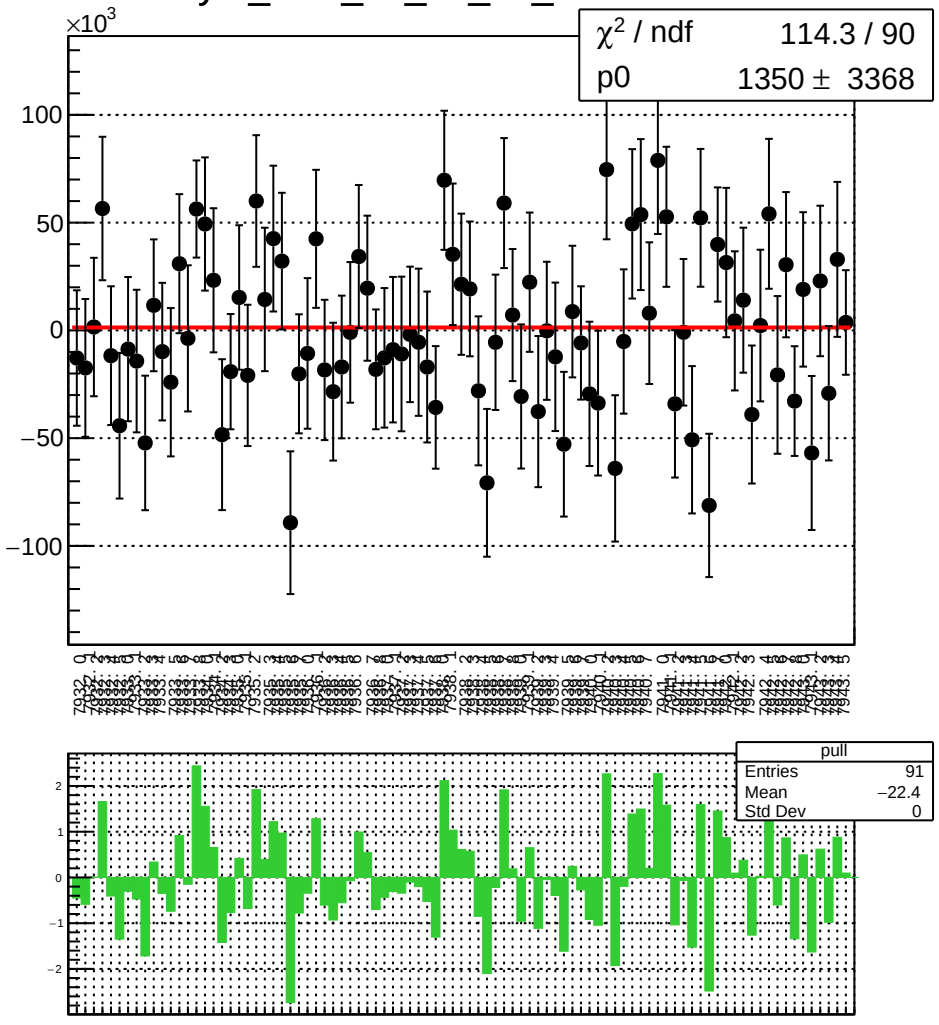

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3126 / 90
p0 3151 ± 2.385
3600
3500
3400
3300
3200
3100
3000
2900
2800

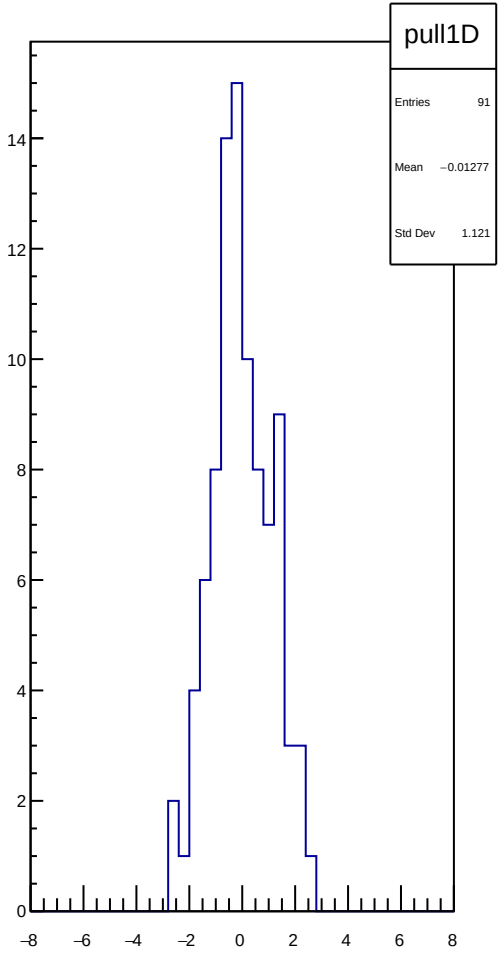

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.96 / 90
p0 291 ± 151.9
pull
Entries 91
Mean 606.3
Std Dev 0
pull1D
Entries 91
Mean −0.001811
Std Dev 1.016

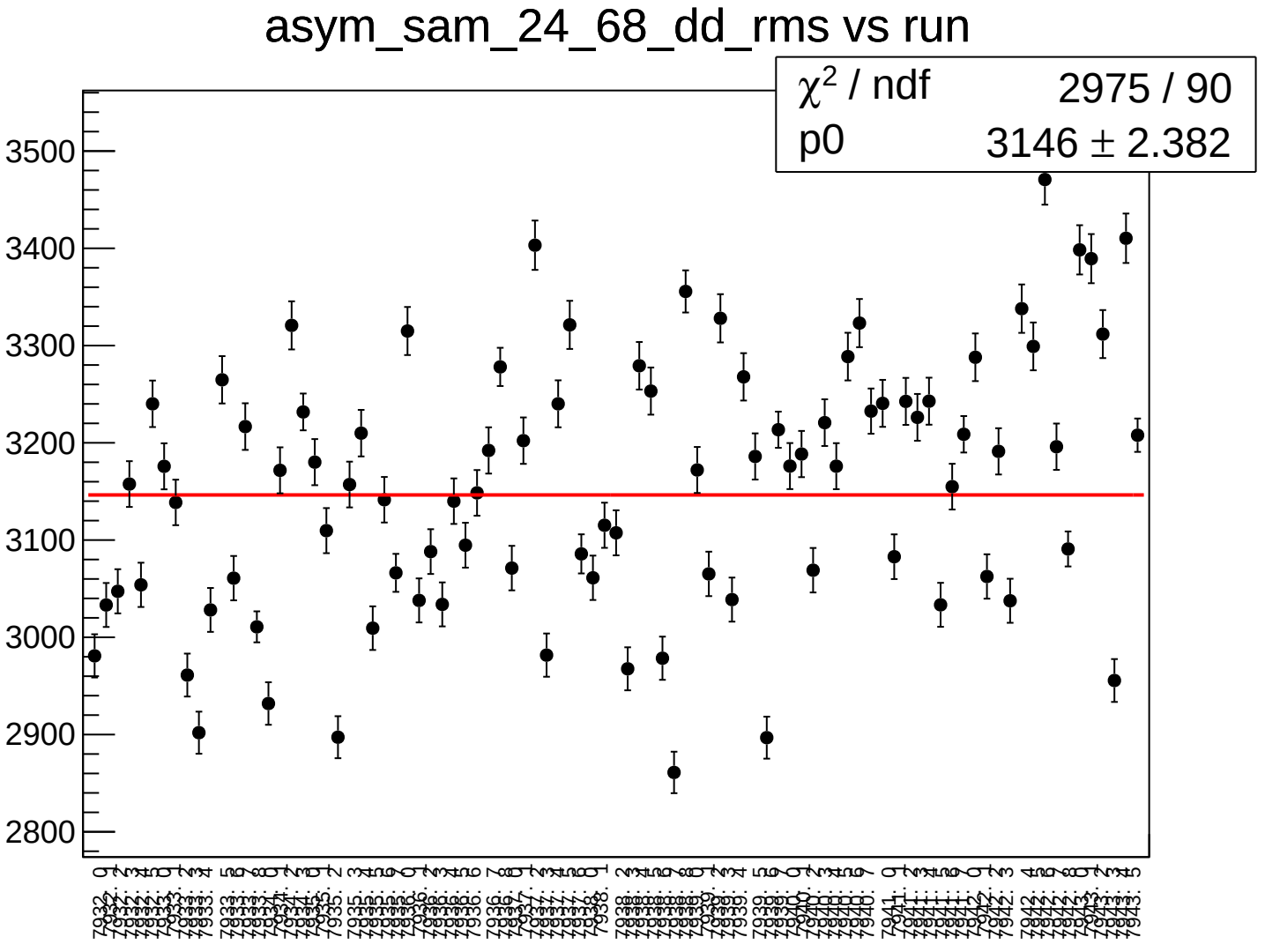

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5372 / 90
p0 141.8 ± 0.1074
190
180
170
160
150
140
130

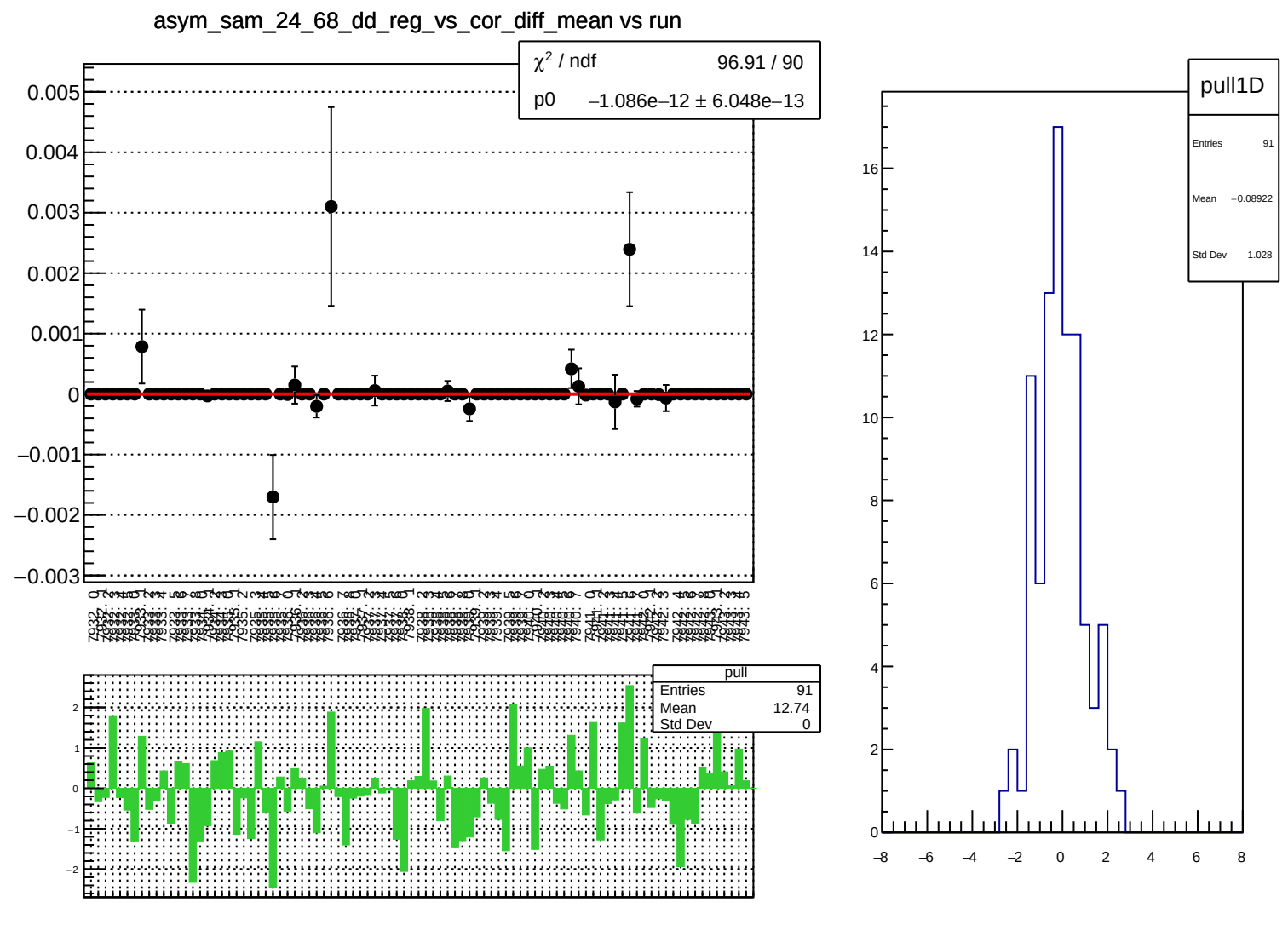

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113.7 / 90
p0 −1050 ± 3373
100
50
0
−50
−100
pull
Entries 91
Mean −25.69
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01267
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

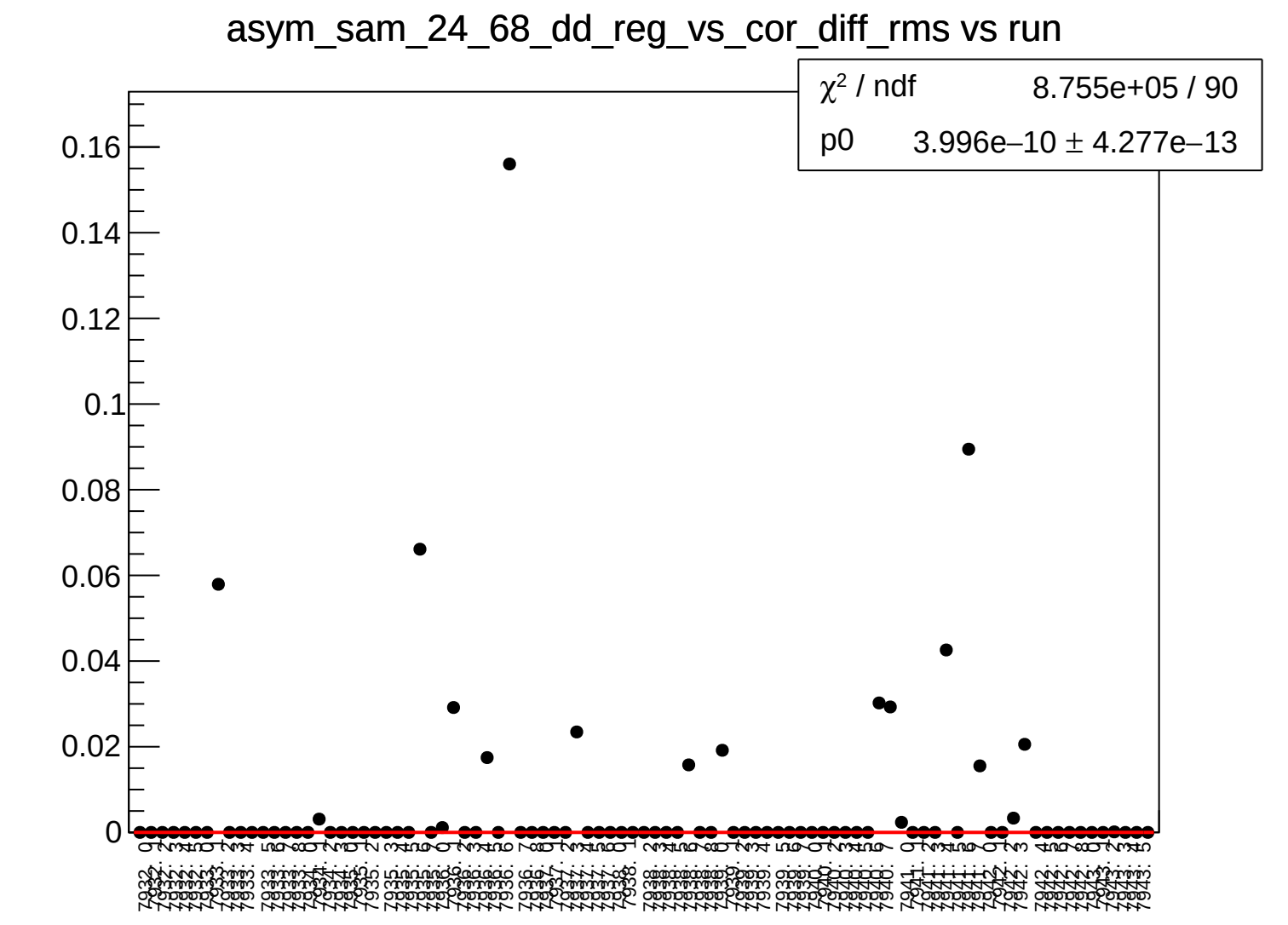

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3126 / 90
p0 3151 ± 2.385
3600
3500
3400
3300
3200
3100
3000
2900
2800

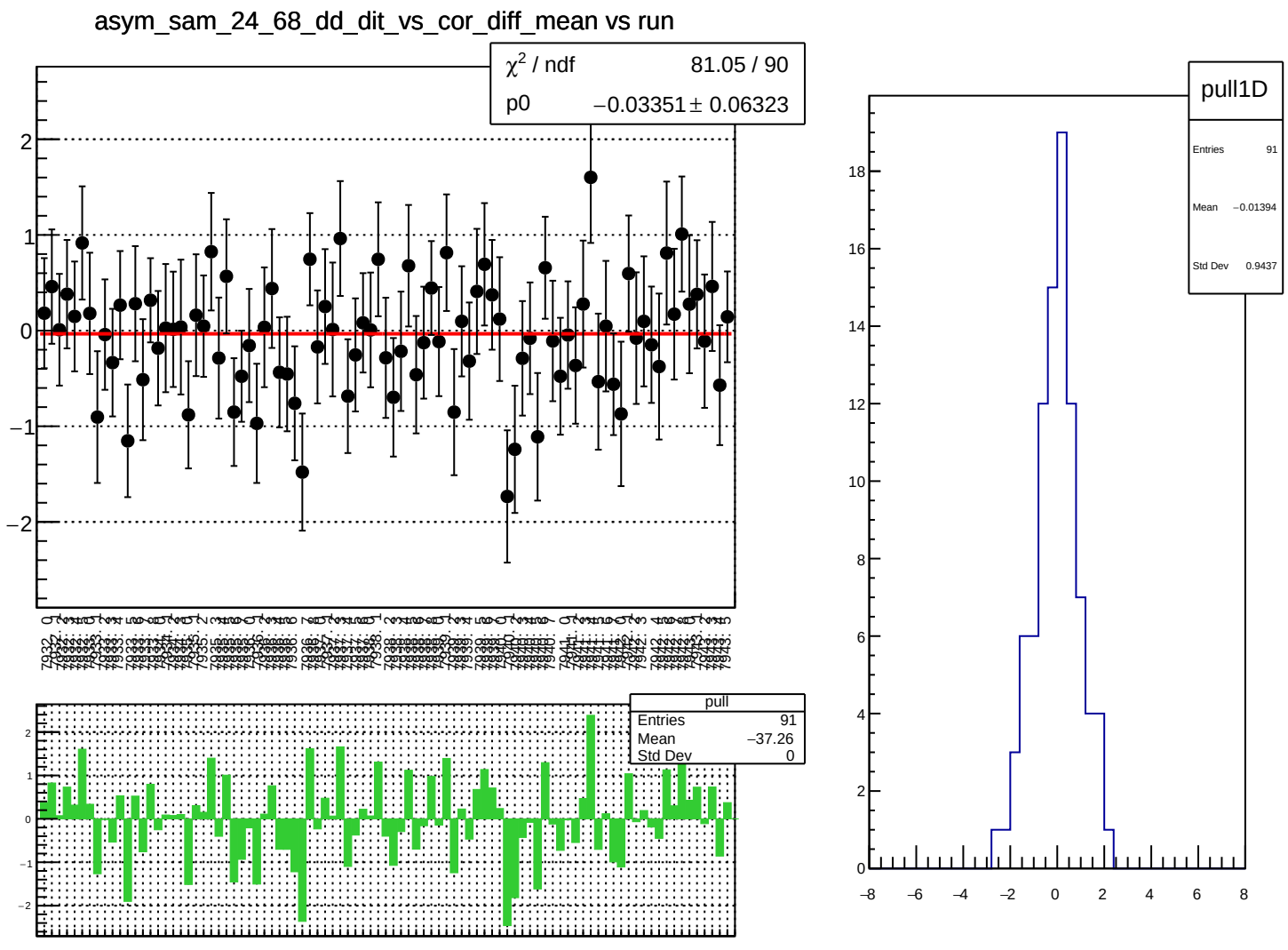

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 114.3 / 90
p0 1350 ± 3368
100
50
0
−50
−100
pull
Entries 91
Mean −22.4
Std Dev 0
2
1
0
−1
−2

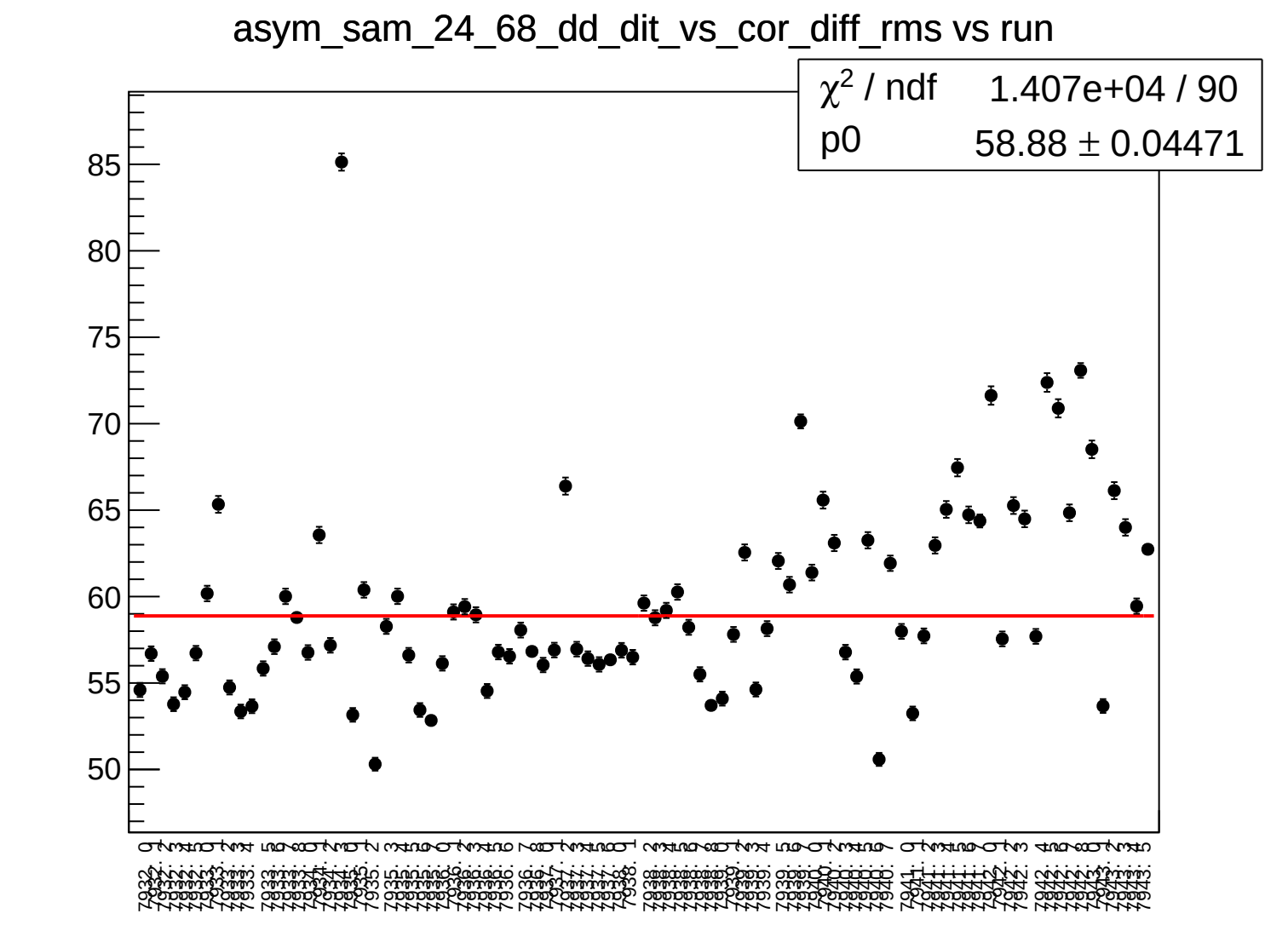

pull1D
Entries 91
Mean −0.01277
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

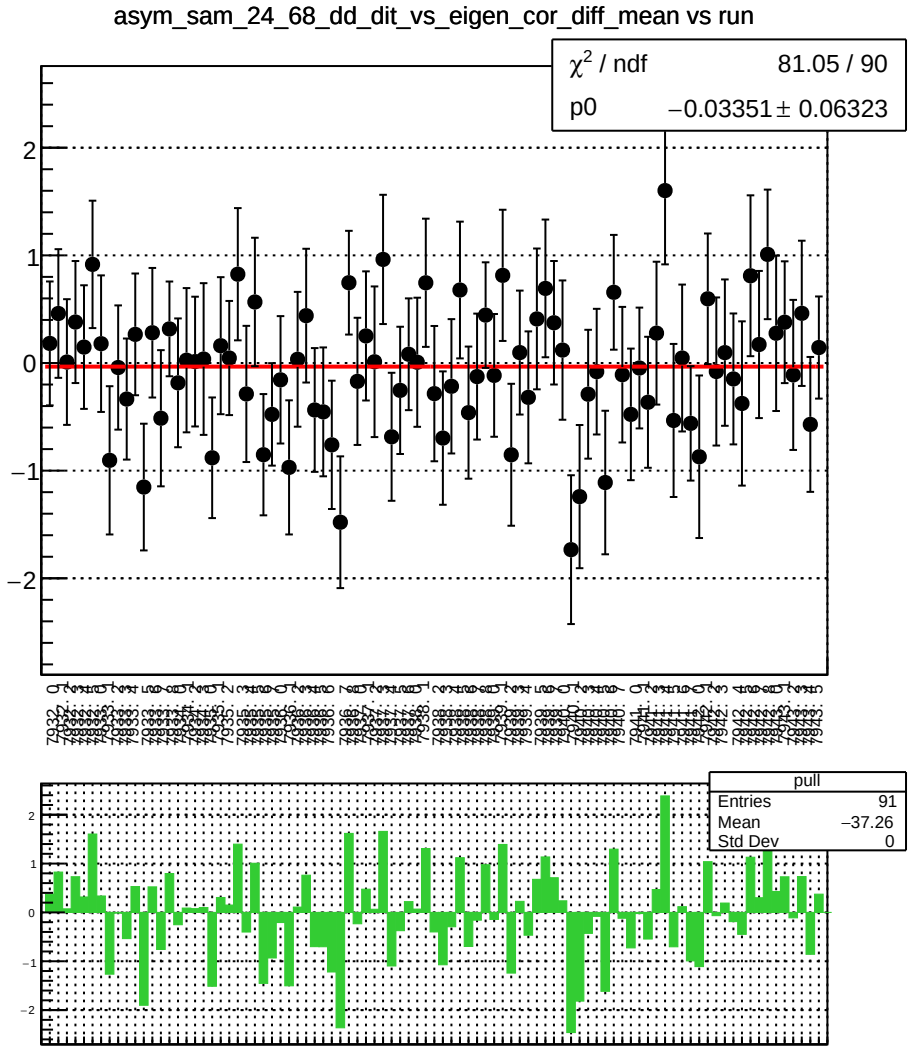

asym_sam_24_68_dd_rms vs run
χ² / ndf 2975 / 90
p0 3146 ± 2.382
3500
3400
3300
3200
3100
3000
2900
2800

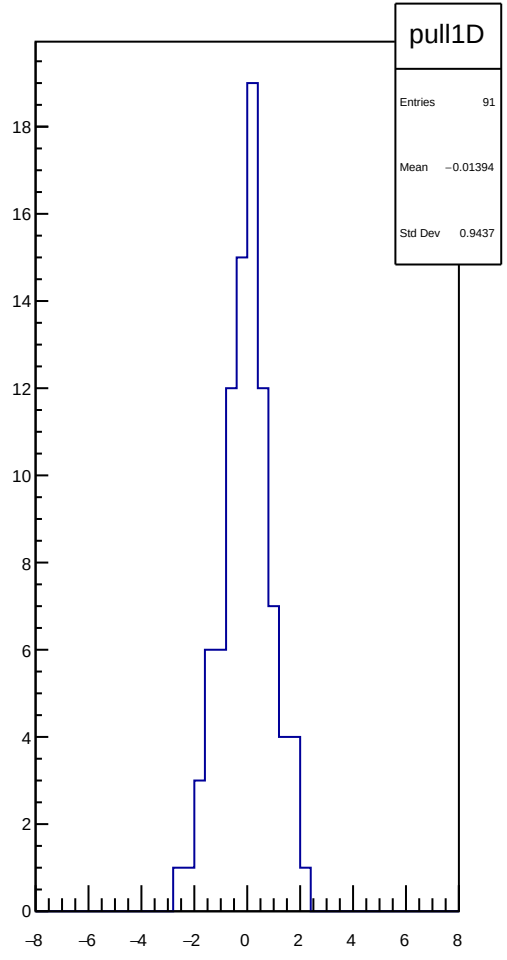

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.91 / 90
p0 −1.086e−12 ± 6.048e−13
pull
Entries 91
Mean 12.74
Std Dev 0
pull1D
Entries 91
Mean −0.08922
Std Dev 1.028

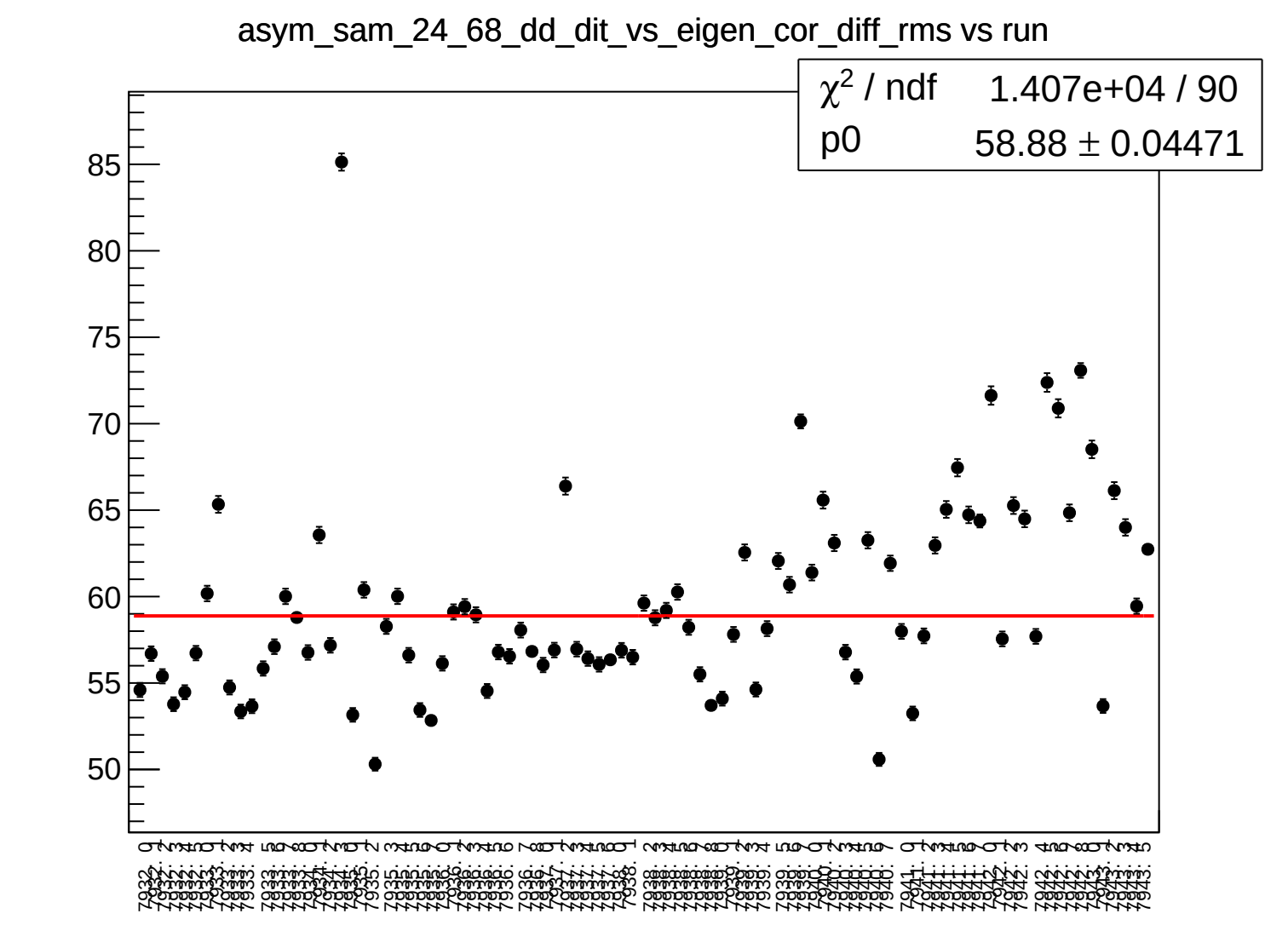

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.755e+05 / 90
p0 3.996e−10 ± 4.277e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

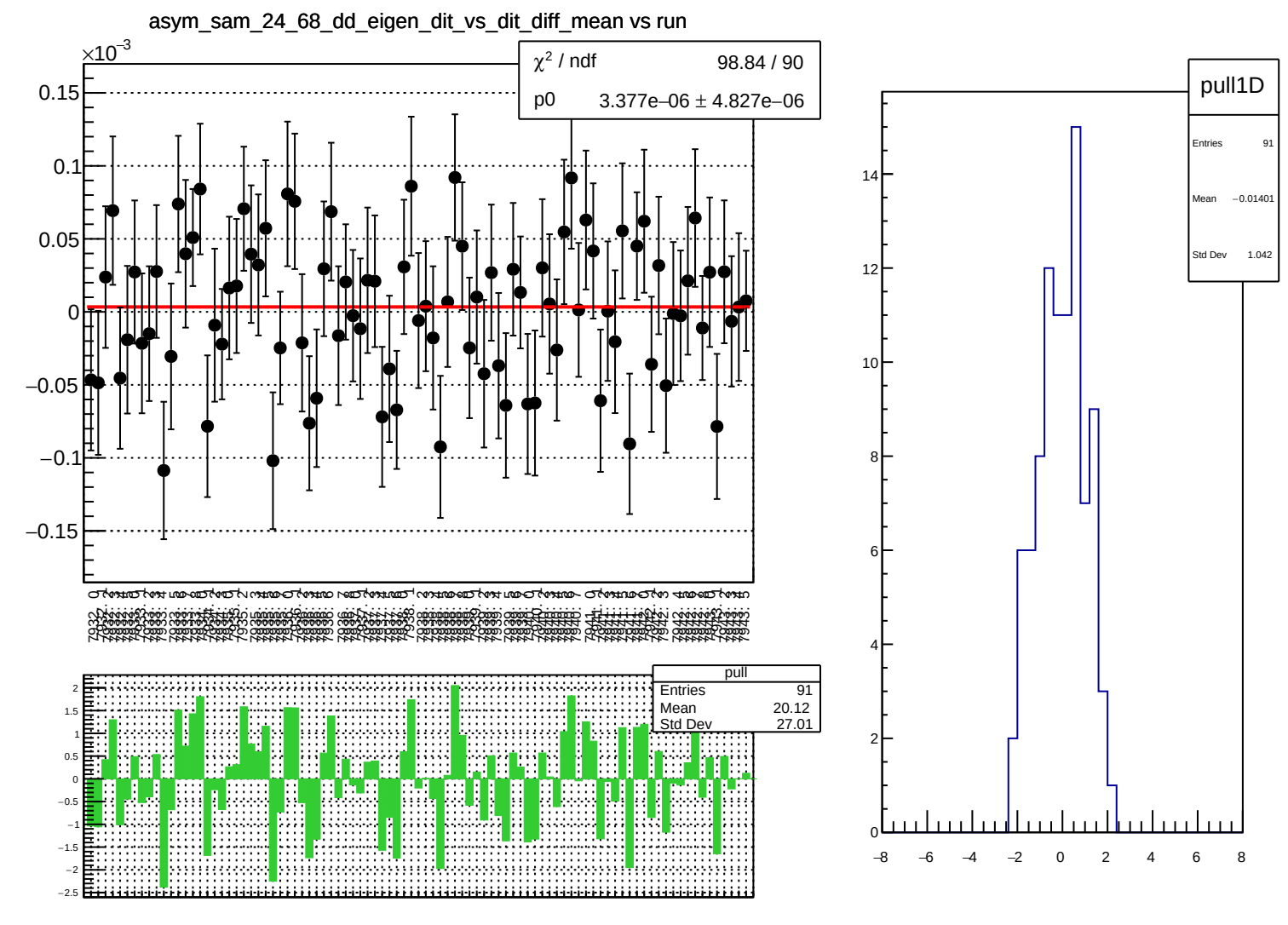

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.05 / 90
p0 −0.03351 ± 0.06323
pull
Entries 91
Mean −37.26
Std Dev 0
pull1D
Entries 91
Mean −0.01394
Std Dev 0.9437

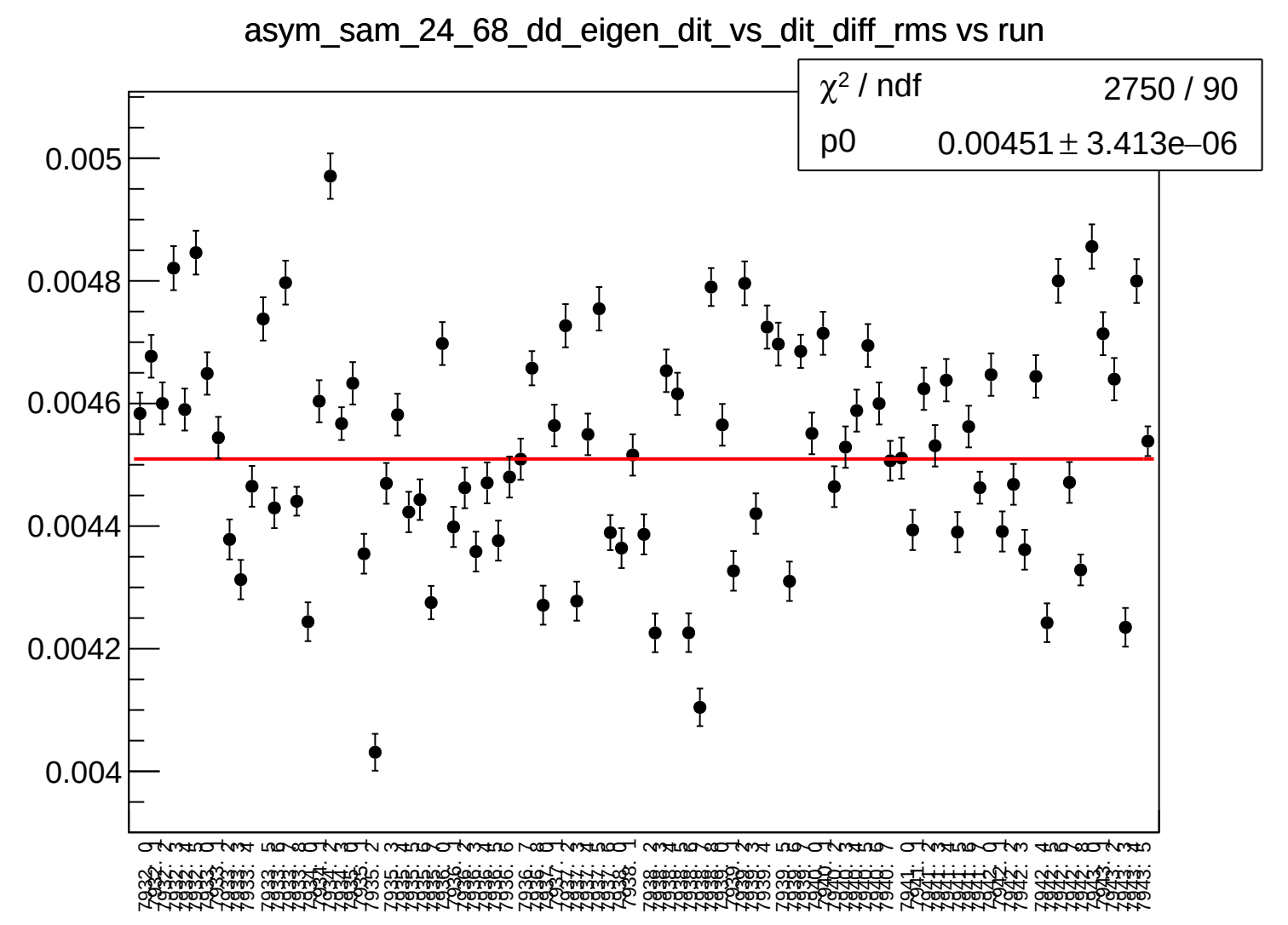

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.407e+04 / 90
p0 58.88 ± 0.04471
85
80
75
70
65
60
55
50

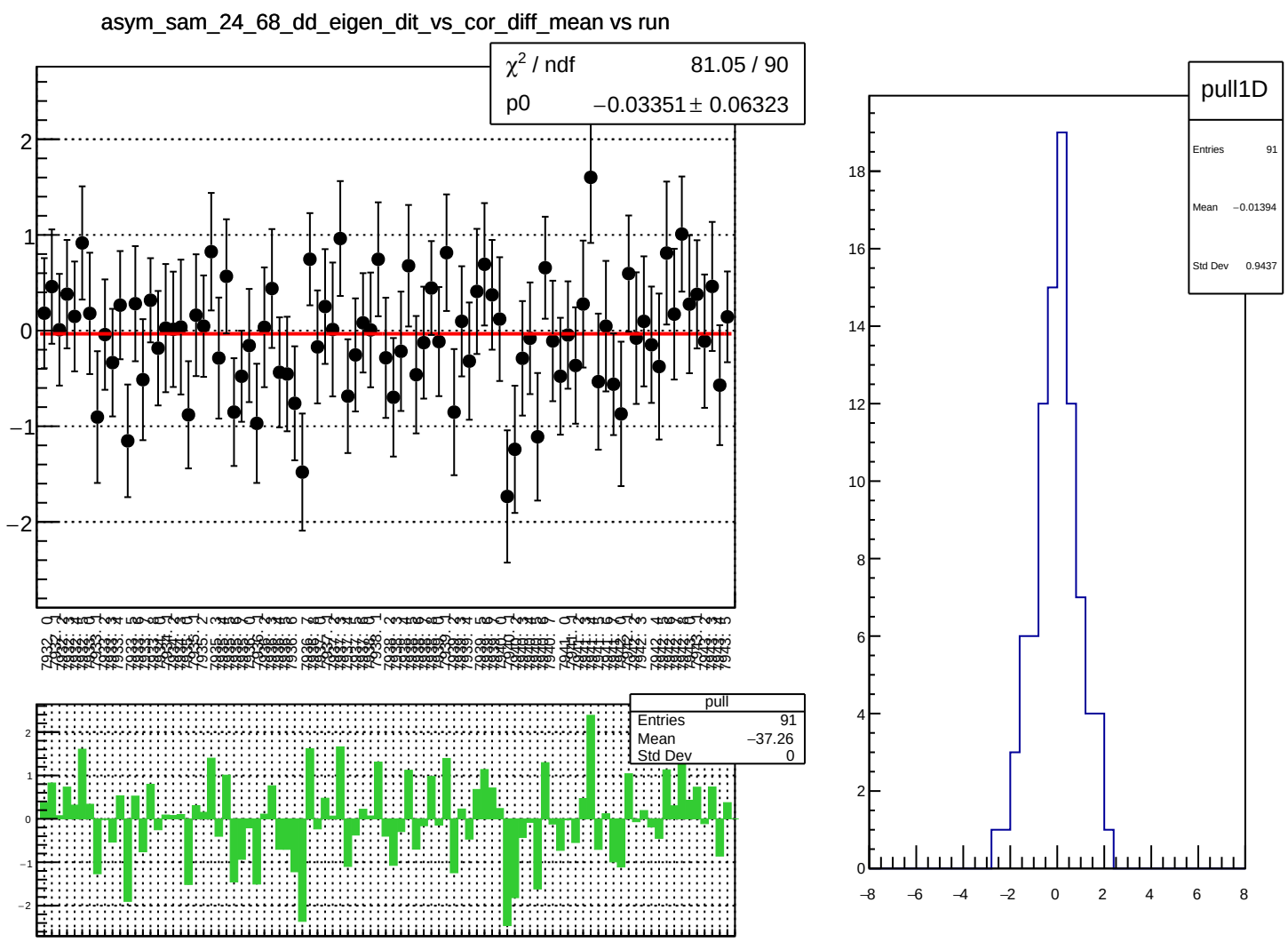

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.05 / 90
p0 −0.03351 ± 0.06323
pull
Entries 91
Mean −37.26
Std Dev 0

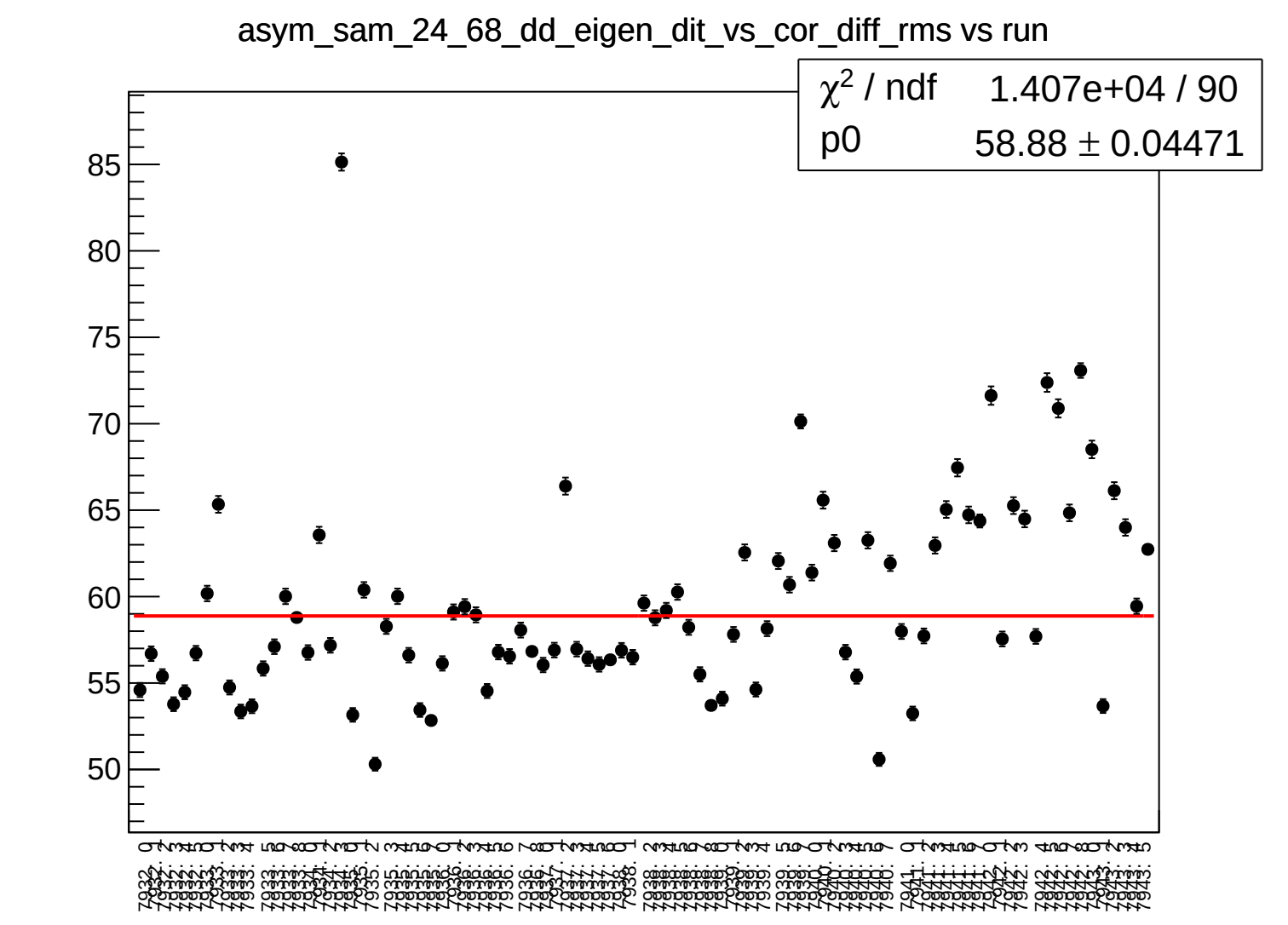

pull1D
Entries 91
Mean −0.01394
Std Dev 0.9437

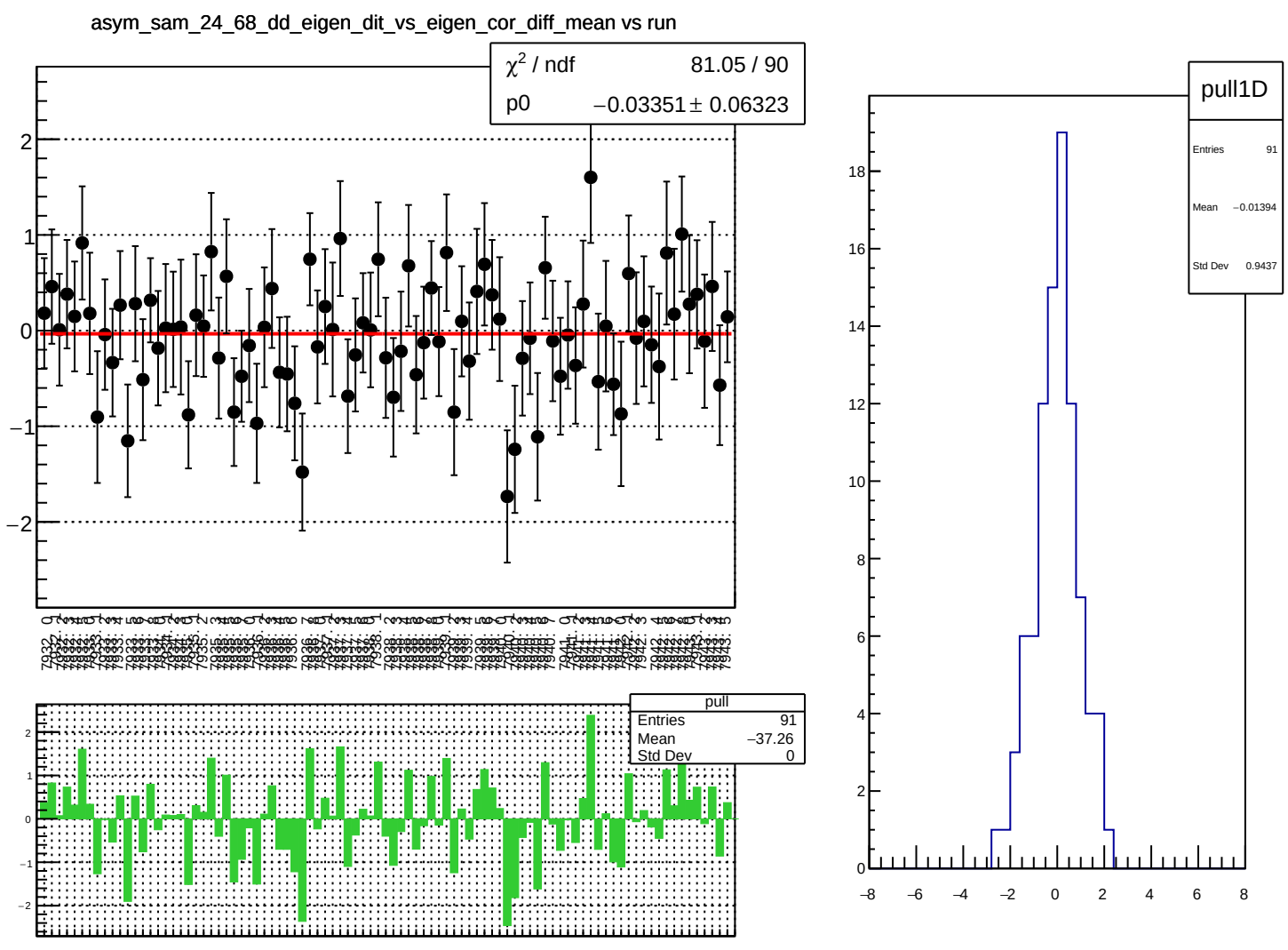

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.407e+04 / 90
p0 58.88 ± 0.04471
85
80
75
70
65
60
55
50

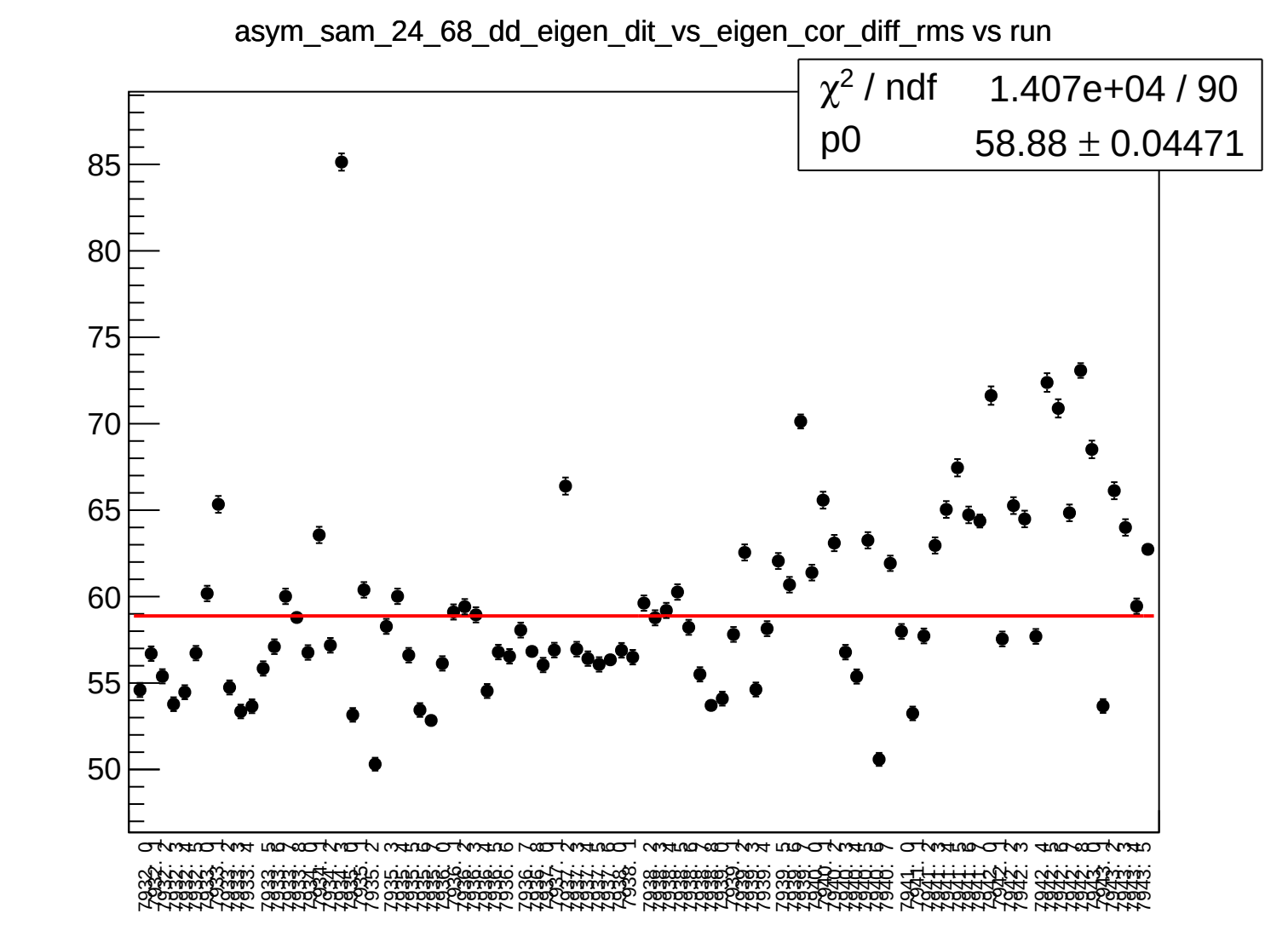

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.84 / 90
p0 3.377e−06 ± 4.827e−06
pull
Entries 91
Mean 20.12
Std Dev 27.01
pull1D
Entries 91
Mean −0.01401
Std Dev 1.042

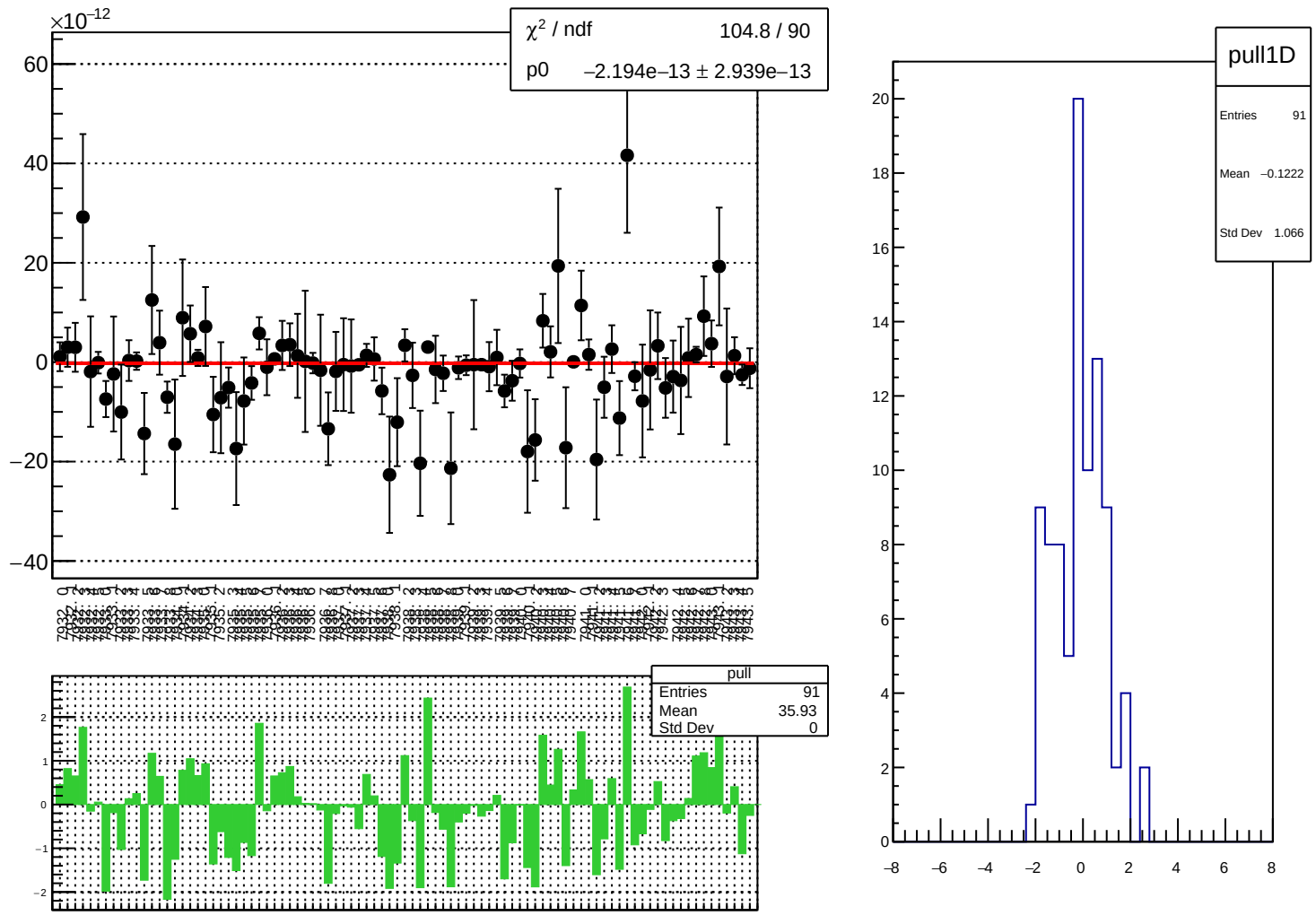

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2750 / 90
p0 0.00451 ± 3.413e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

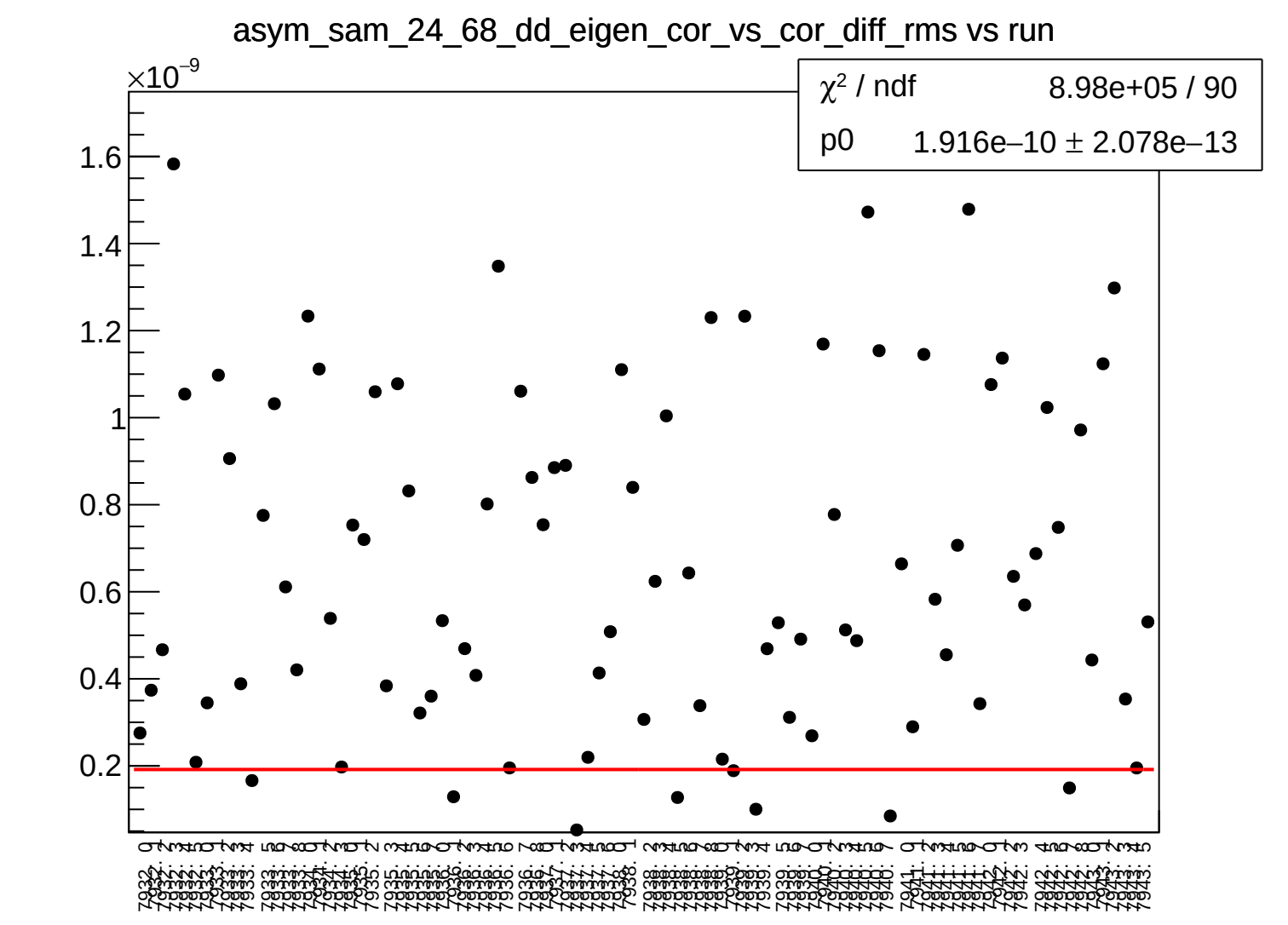

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.05 / 90
p0 −0.03351 ± 0.06323
pull
Entries 91
Mean −37.26
Std Dev 0
pull1D
Entries 91
Mean −0.01394
Std Dev 0.9437

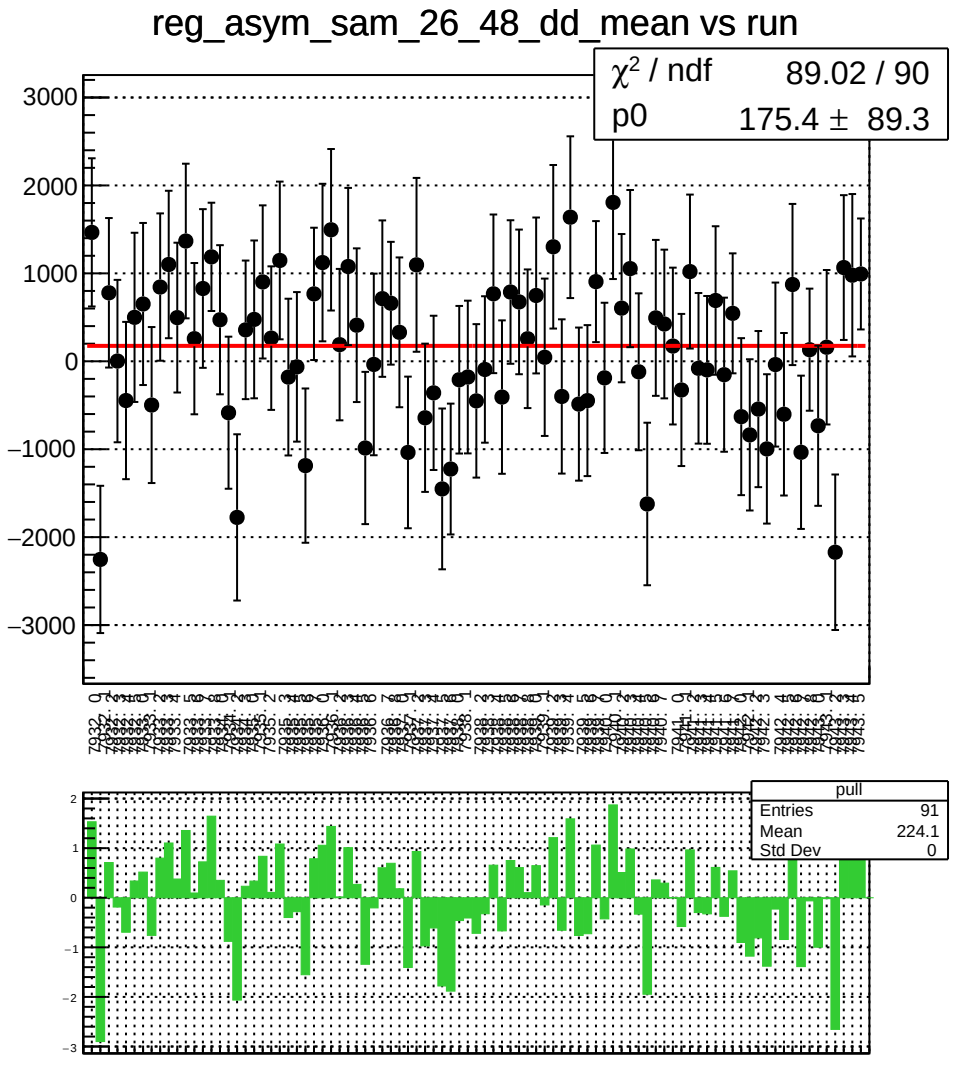

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.407e+04 / 90
p0 58.88 ± 0.04471
85
80
75
70
65
60
55
50

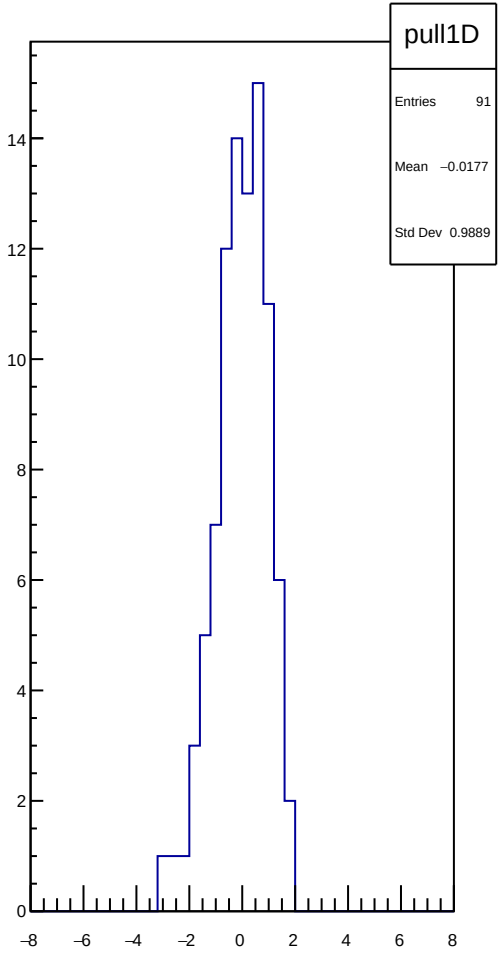

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.05 / 90
p0 −0.03351 ± 0.06323
pull
Entries 91
Mean −37.26
Std Dev 0
pull1D
Entries 91
Mean −0.01394
Std Dev 0.9437

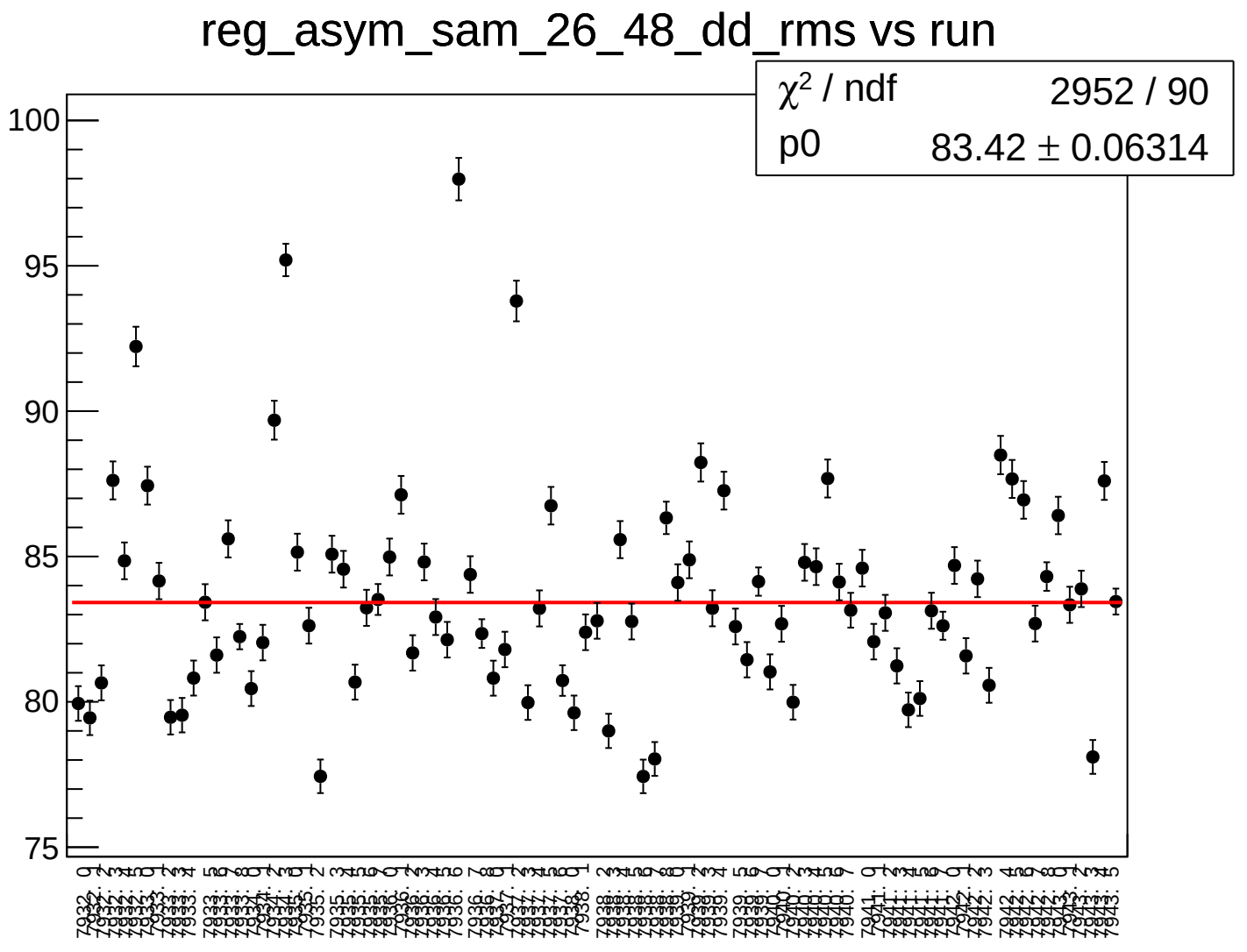

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.407e+04 / 90
p0 58.88 ± 0.04471
85
80
75
70
65
60
55
50

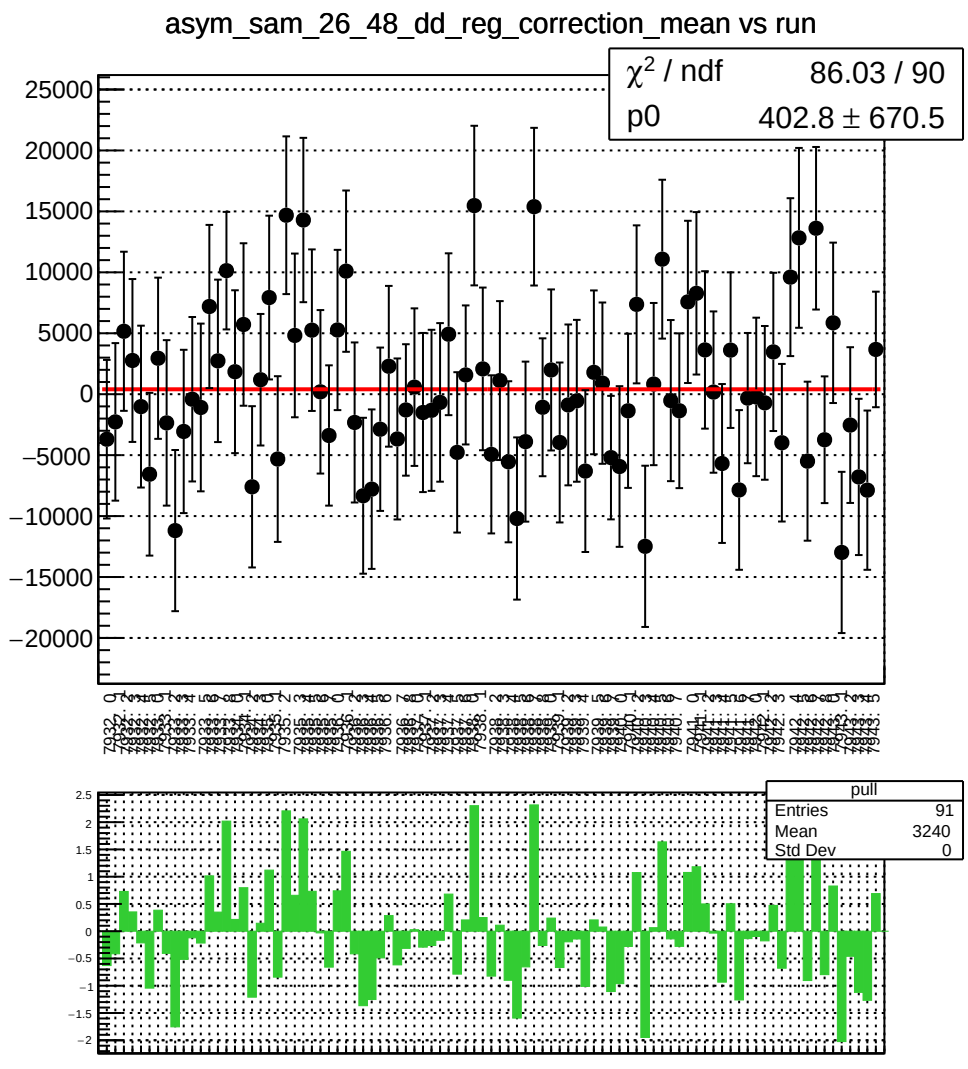

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.8 / 90
p0 −2.194e−13 ± 2.939e−13
pull
Entries 91
Mean 35.93
Std Dev 0
pull1D
Entries 91
Mean −0.1222
Std Dev 1.066

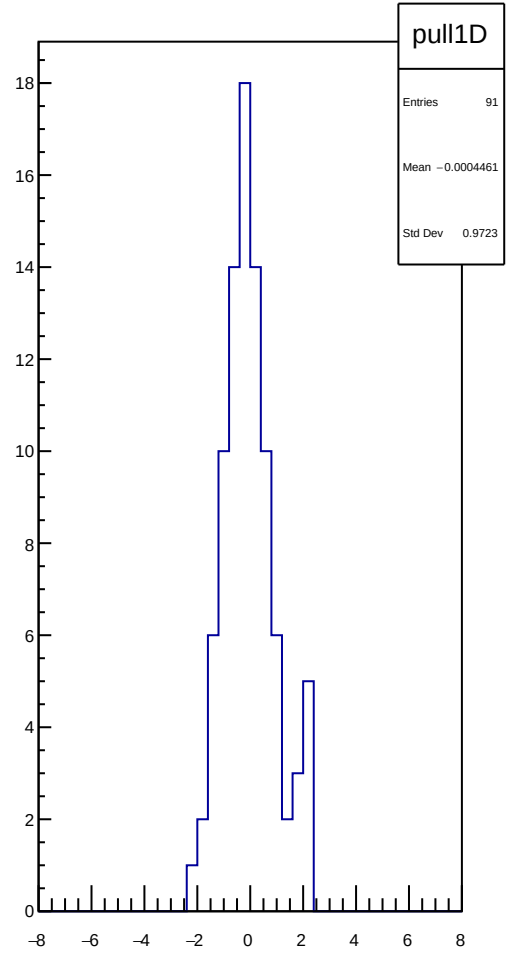

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.98e+05 / 90
p0 1.916e−10 ± 2.078e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

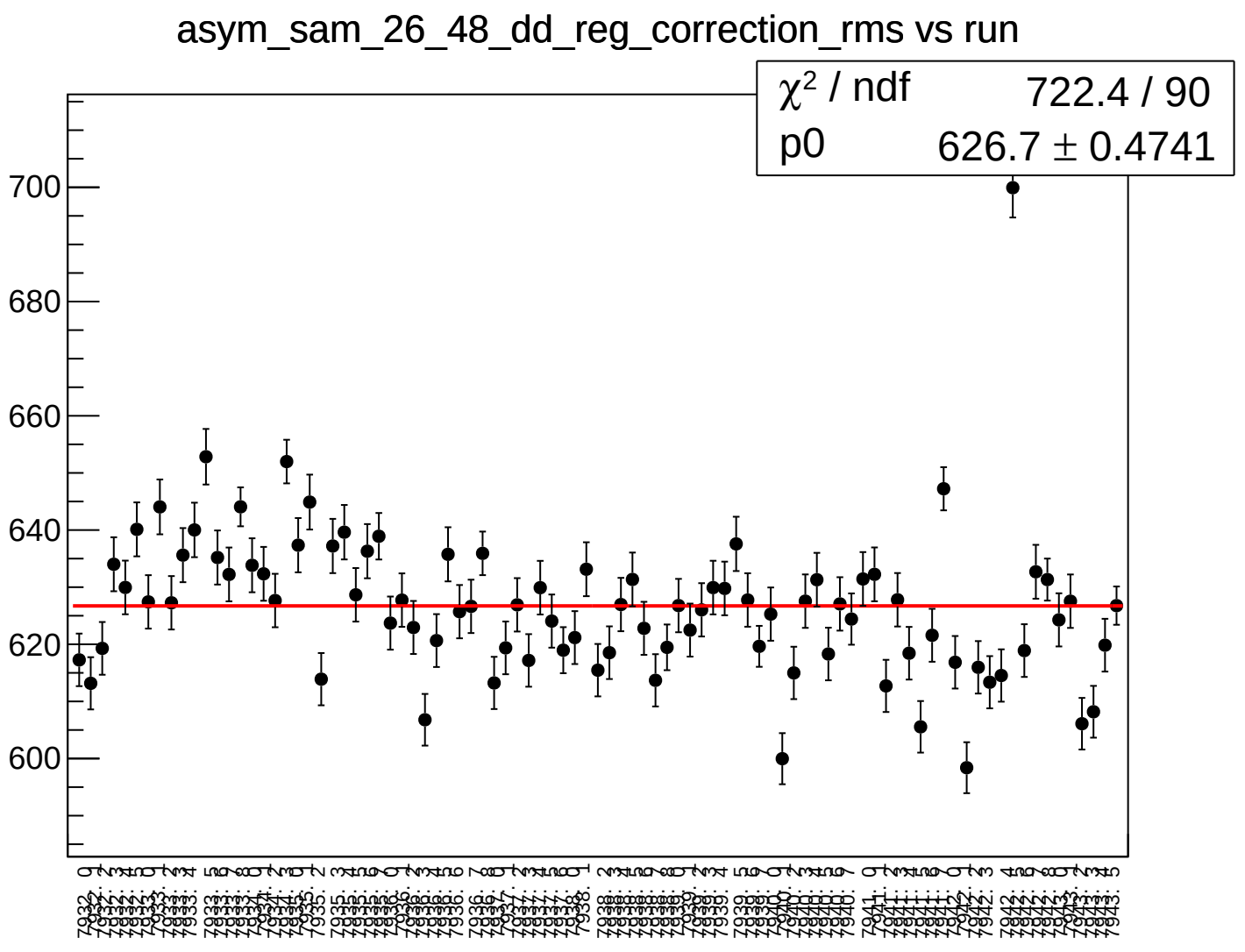

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.02 / 90
p0 175.4 ± 89.3
pull
Entries 91
Mean 224.1
Std Dev 0

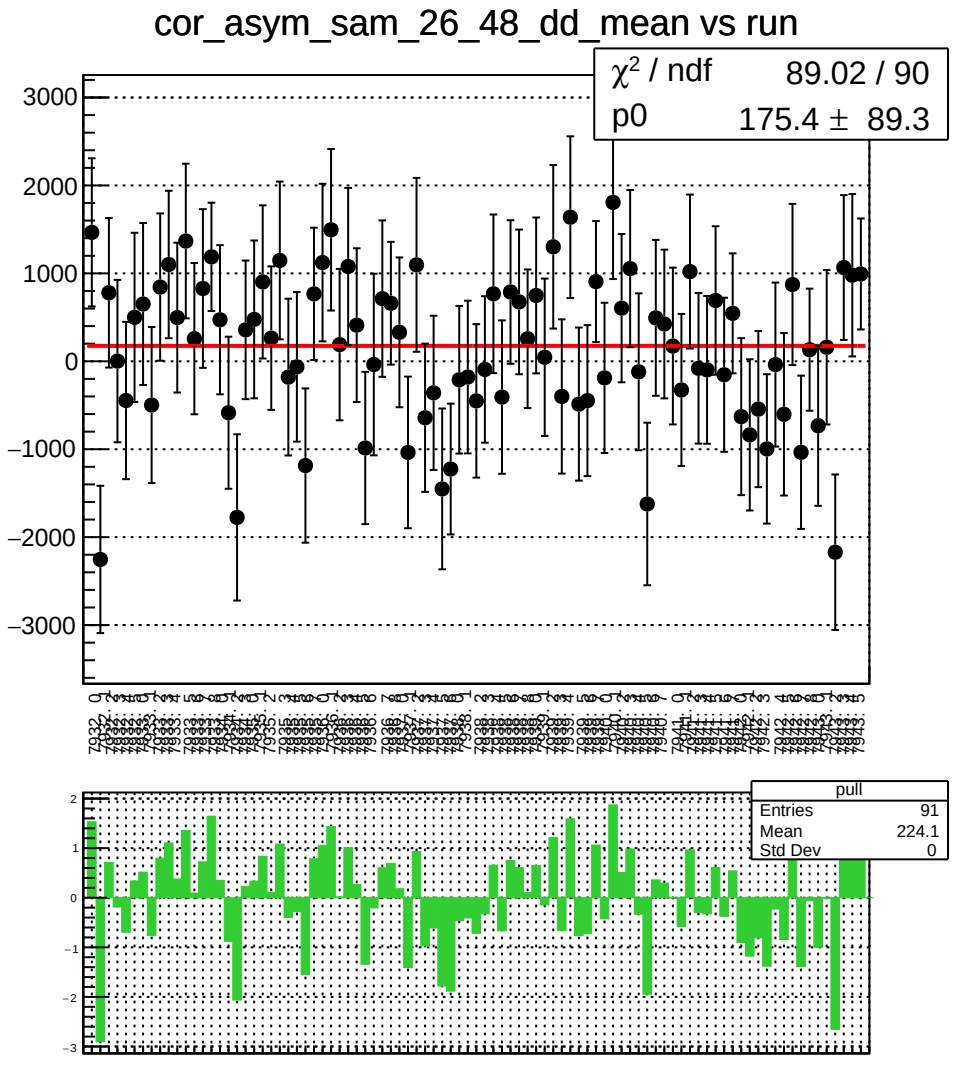

pull1D
Entries 91
Mean −0.0177
Std Dev 0.9889

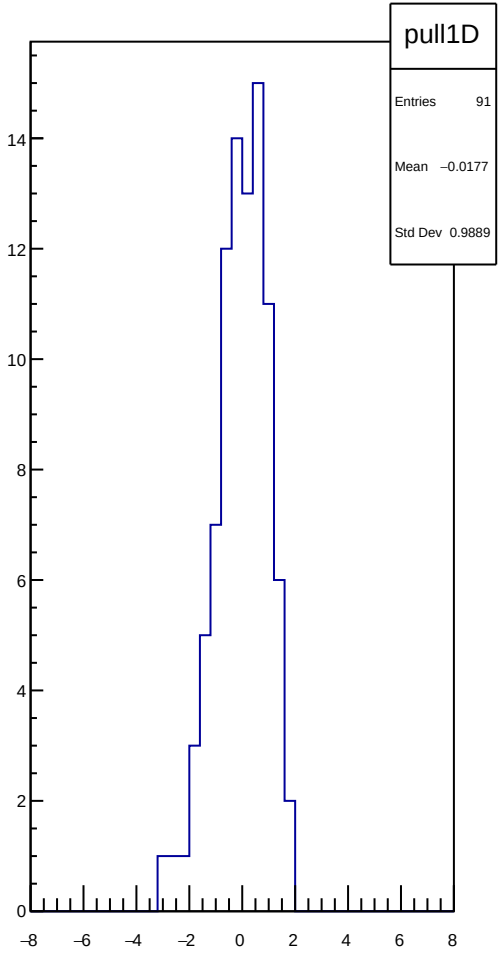

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2952 / 90
p0 83.42 ± 0.06314
100
95
90
85
80
75

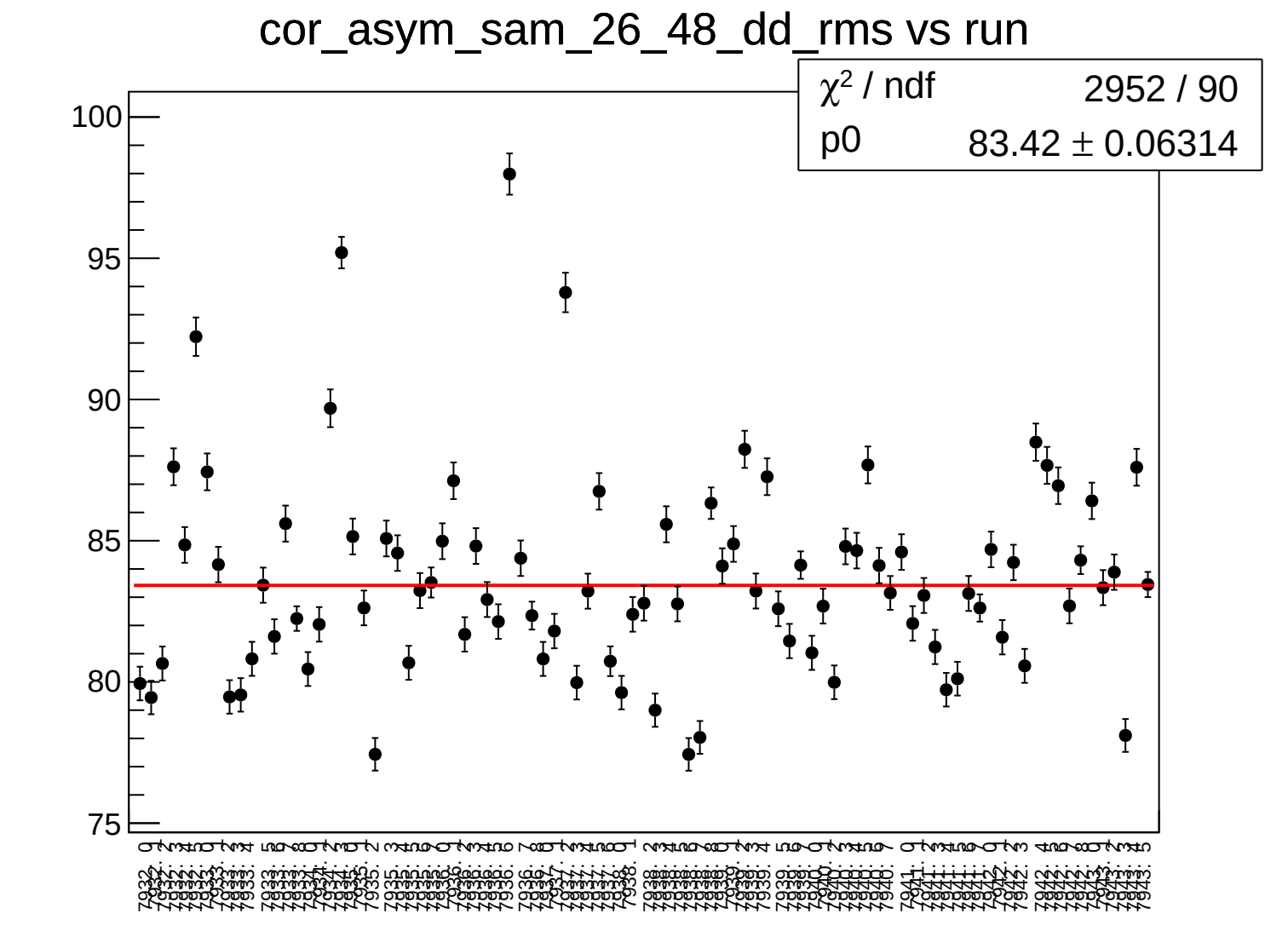

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 86.03 / 90
p0 402.8 ± 670.5
pull
Entries 91
Mean 3240
Std Dev 0

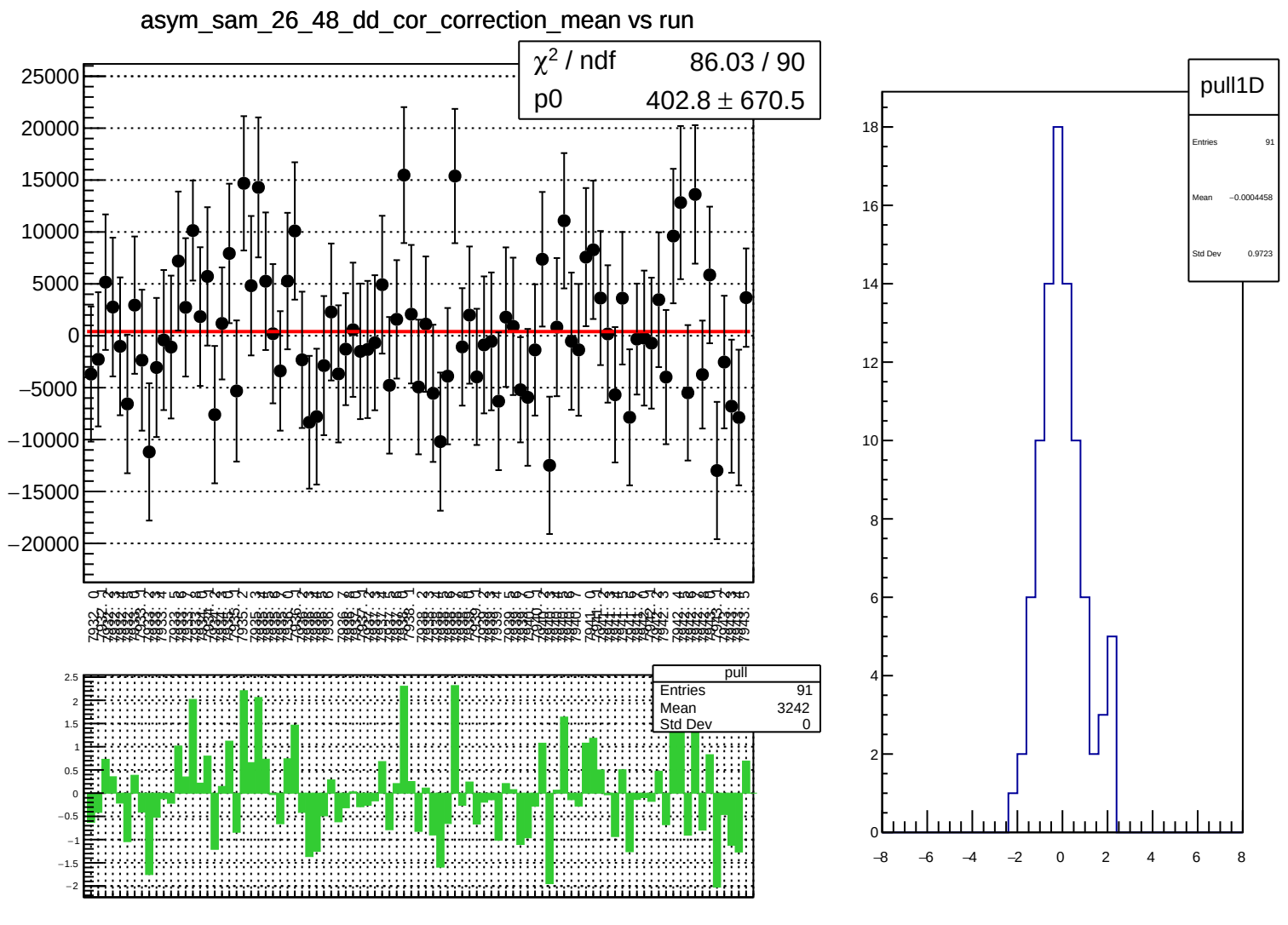

pull1D
Entries 91
Mean −0.0004461
Std Dev 0.9723

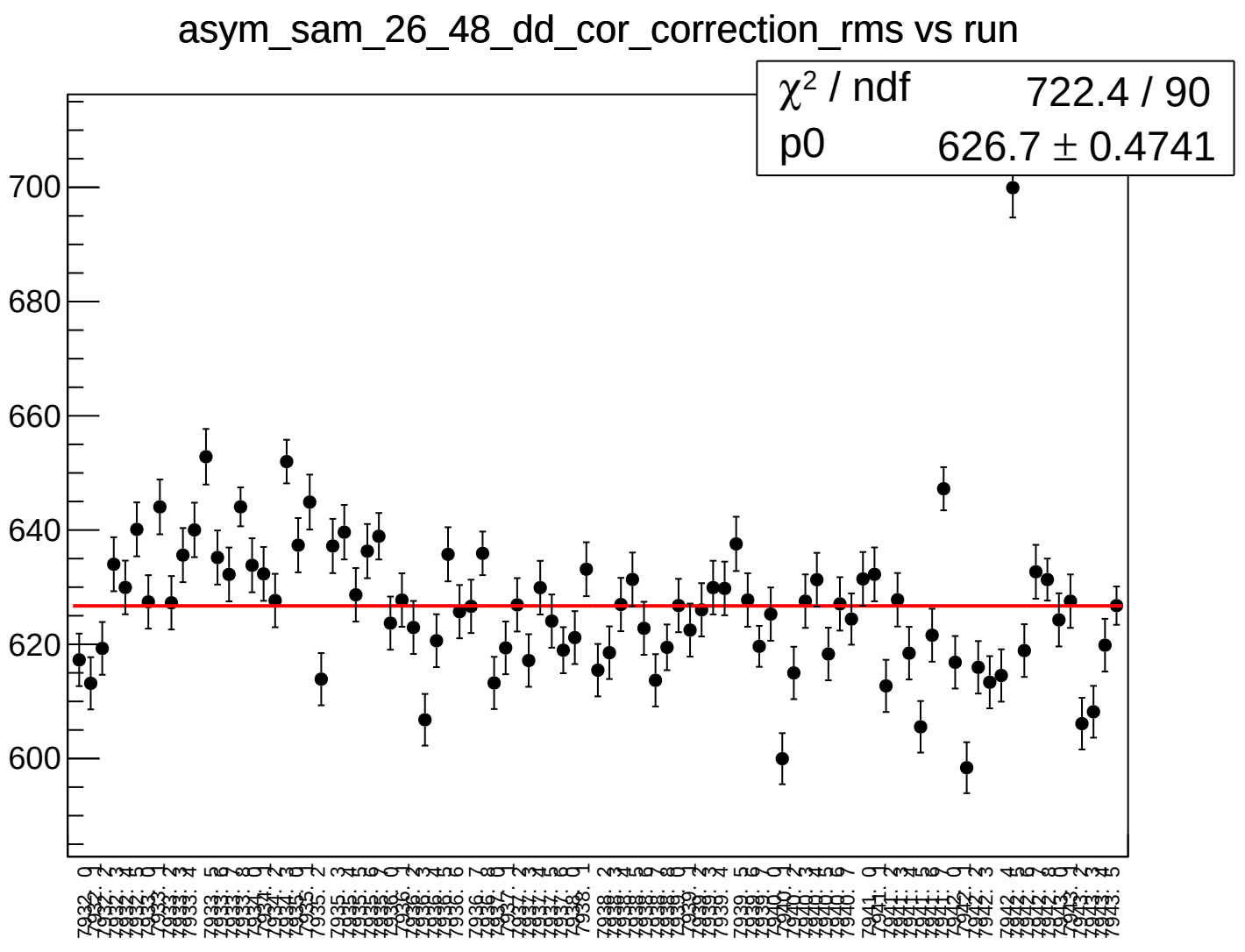

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 722.4 / 90
p0 626.7 ± 0.4741
700
680
660
640
620
600

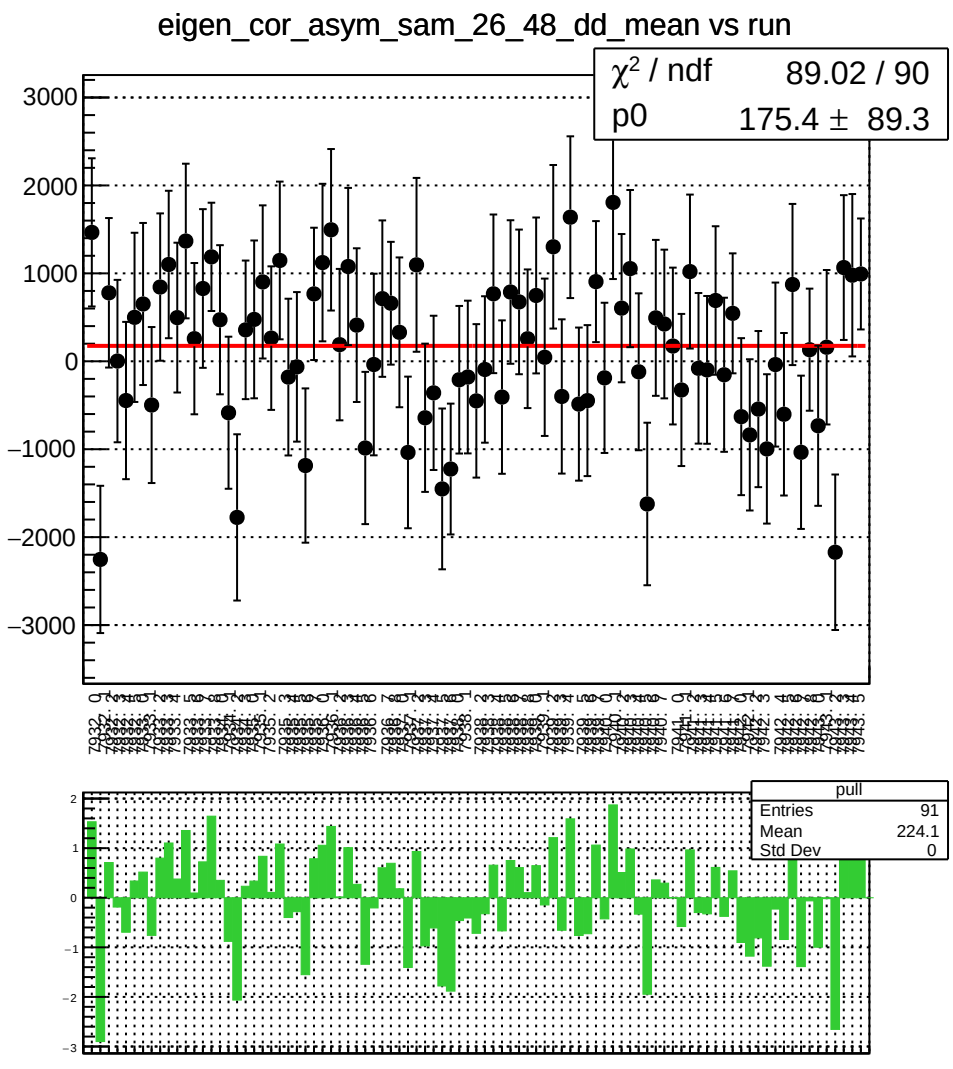

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.02 / 90
p0 175.4 ± 89.3
pull
Entries 91
Mean 224.1
Std Dev 0

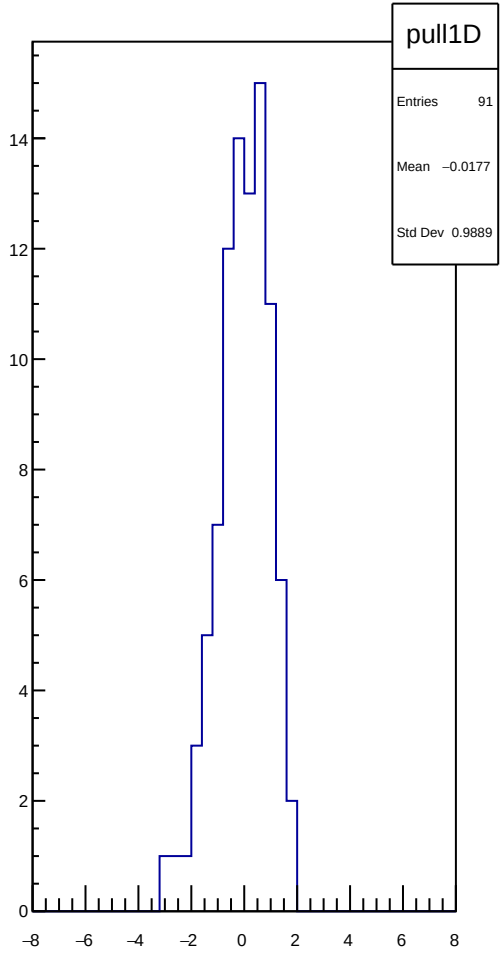

pull1D
Entries 91
Mean −0.0177
Std Dev 0.9889

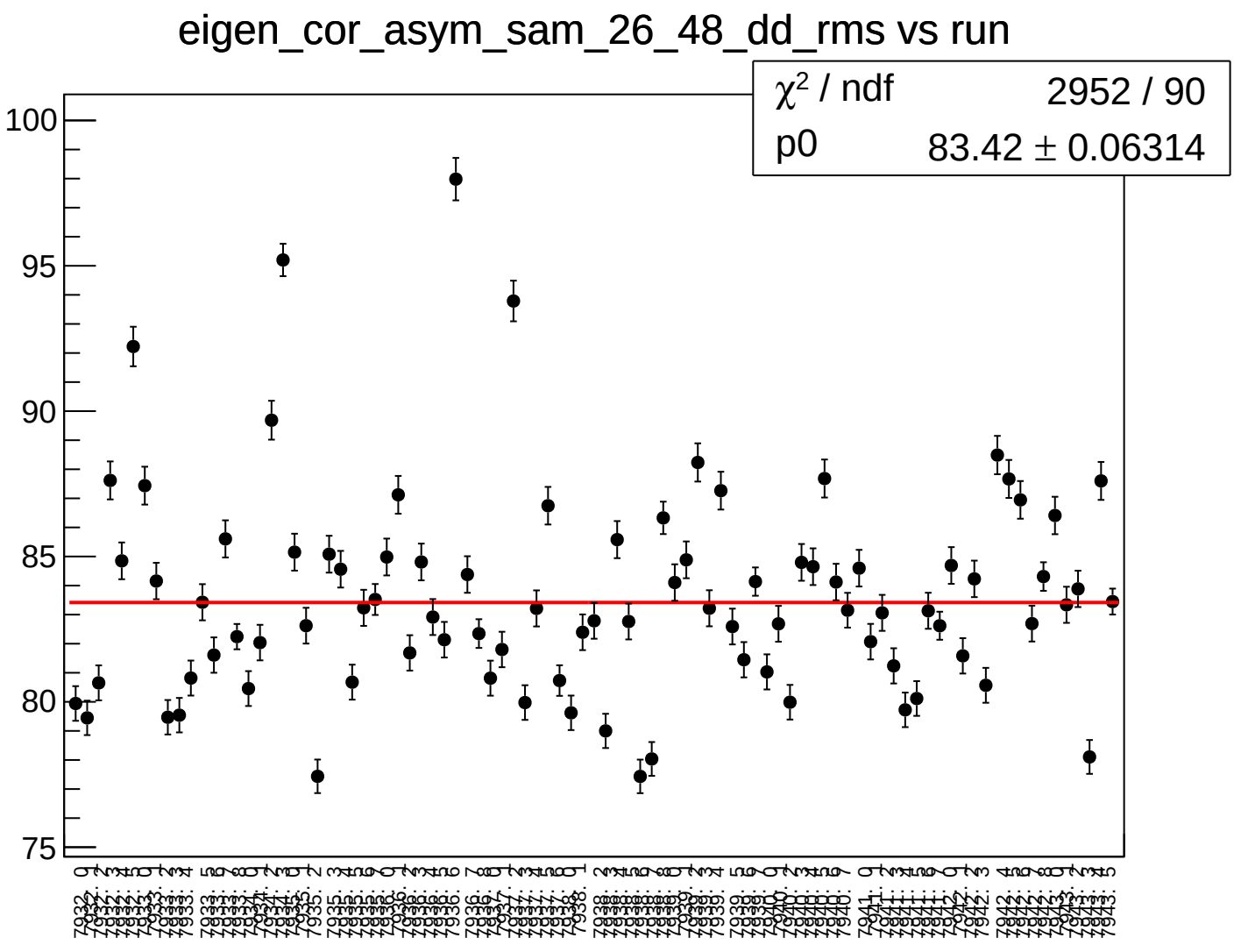

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2952 / 90
p0 83.42 ± 0.06314
100
95
90
85
80
75

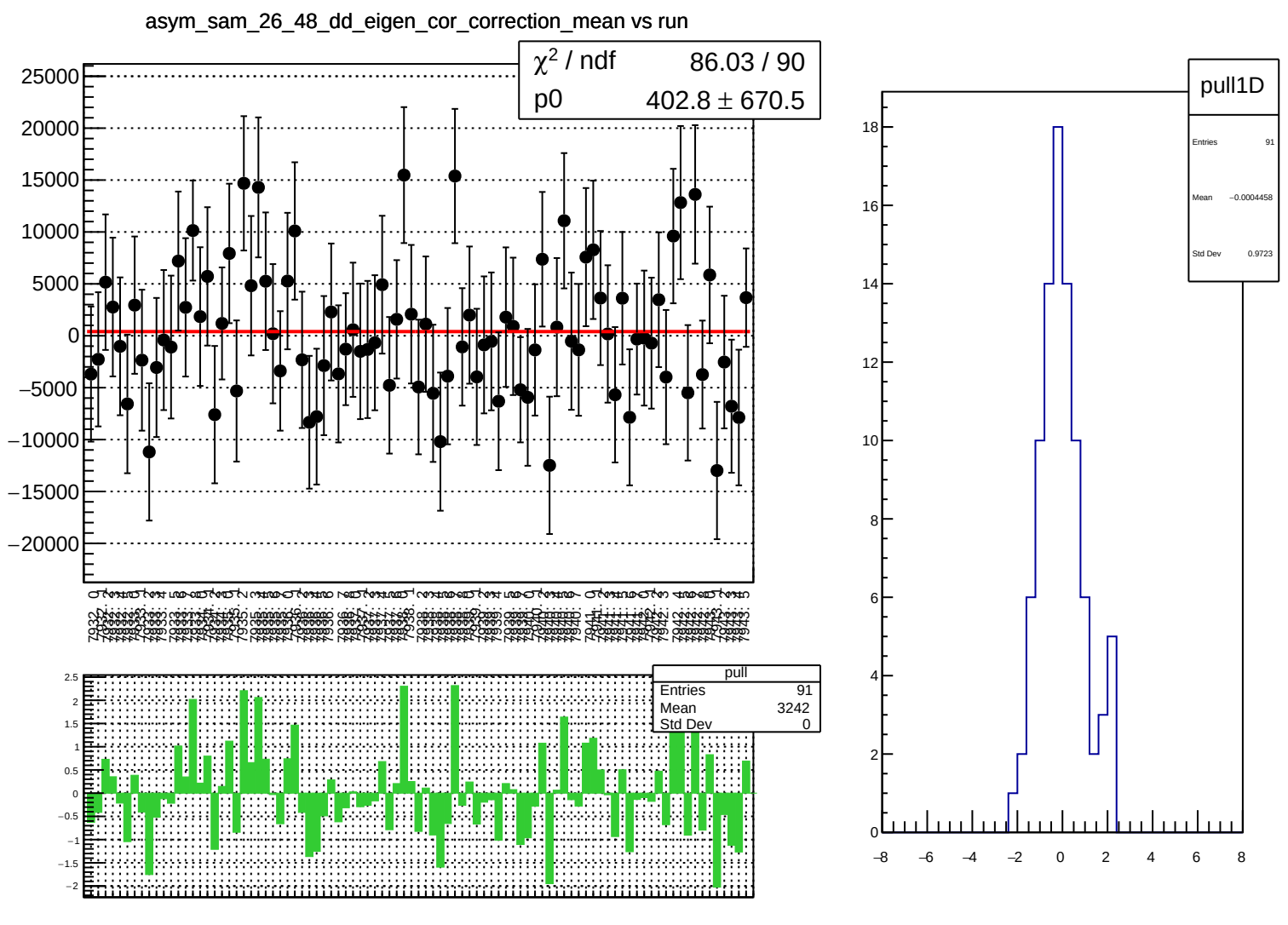

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 86.03 / 90
p0 402.8 ± 670.5
pull
Entries 91
Mean 3242
Std Dev 0
pull1D
Entries 91
Mean −0.0004458
Std Dev 0.9723

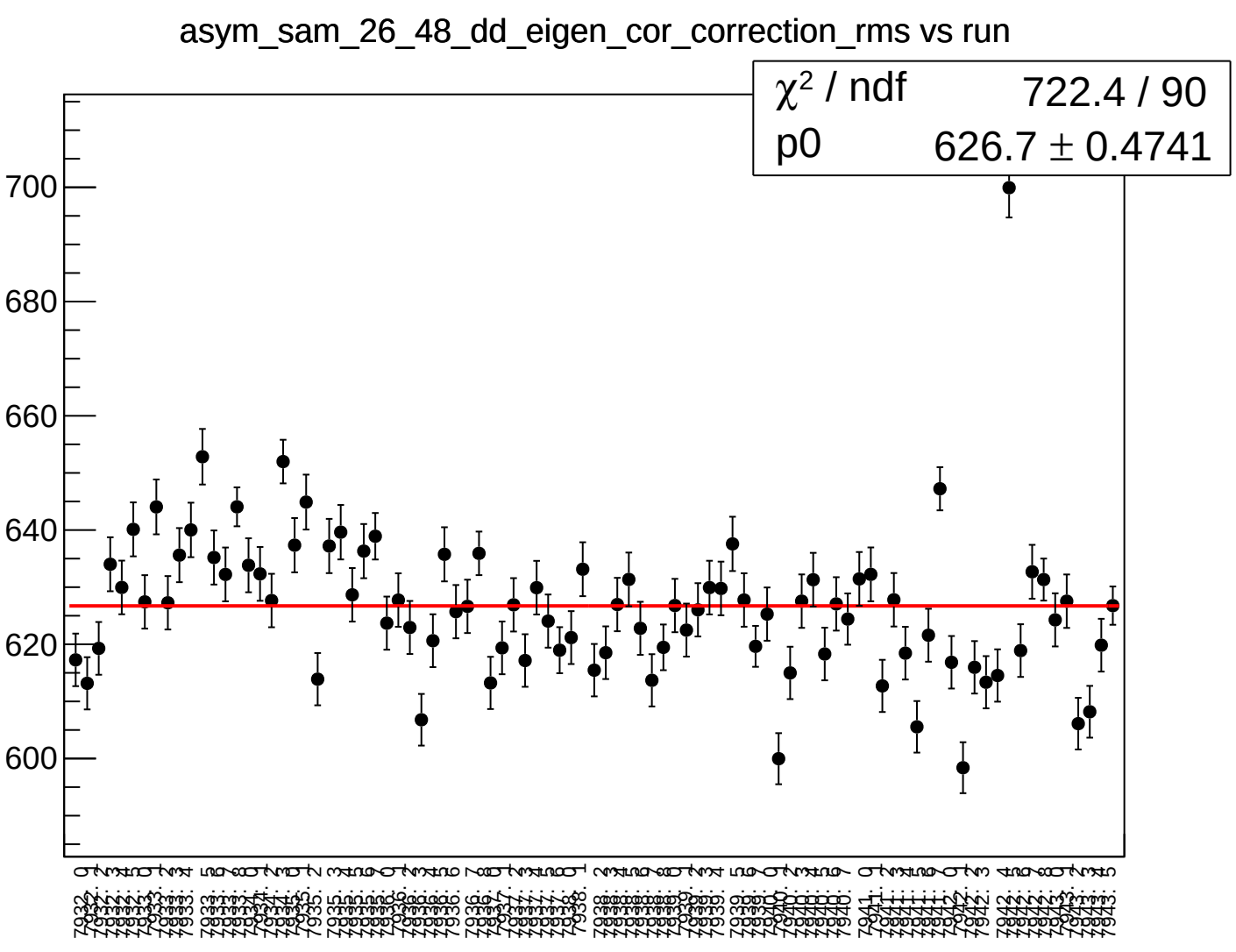

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 722.4 / 90
p0 626.7 ± 0.4741
700
680
660
640
620
600

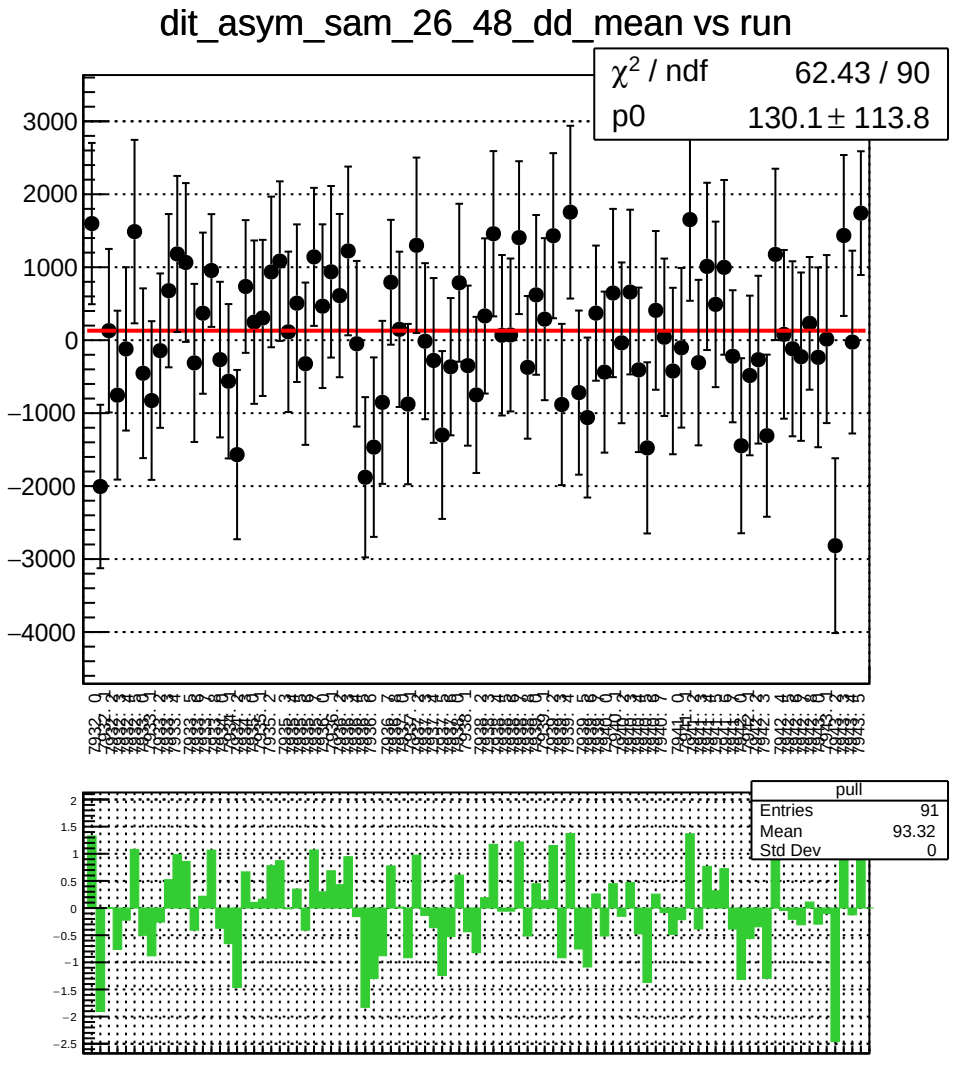

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.02 / 90
p0 175.4 ± 89.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 224.1
Std Dev 0
2
1
0
−1
−2
−3

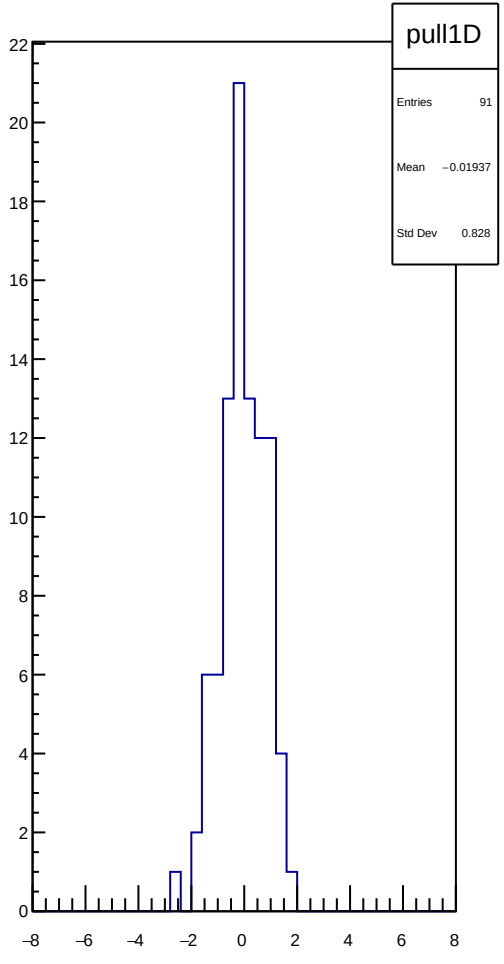

pull1D
Entries 91
Mean −0.0177
Std Dev 0.9889
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

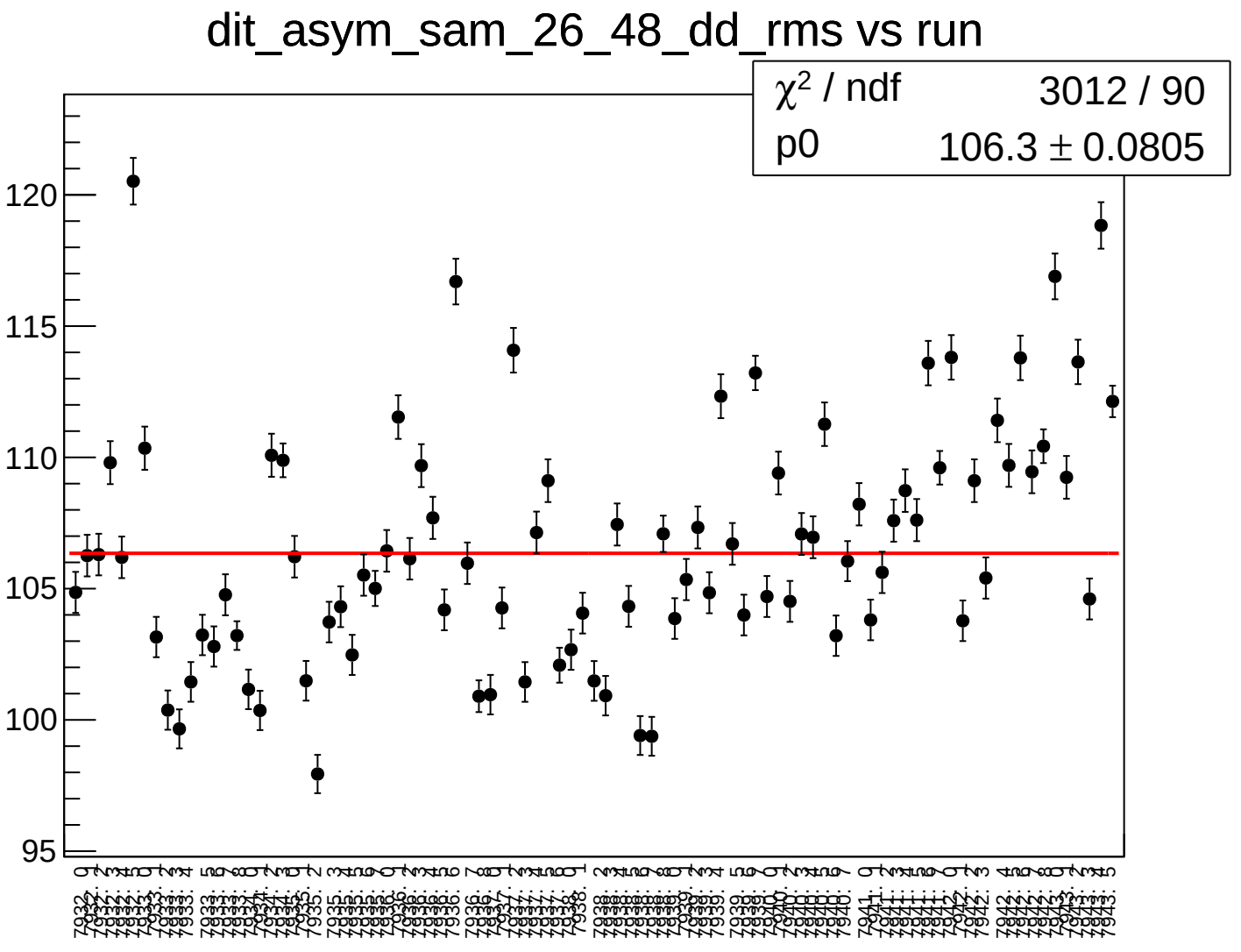

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2952 / 90
p0 83.42 ± 0.06314
100
95
90
85
80
75

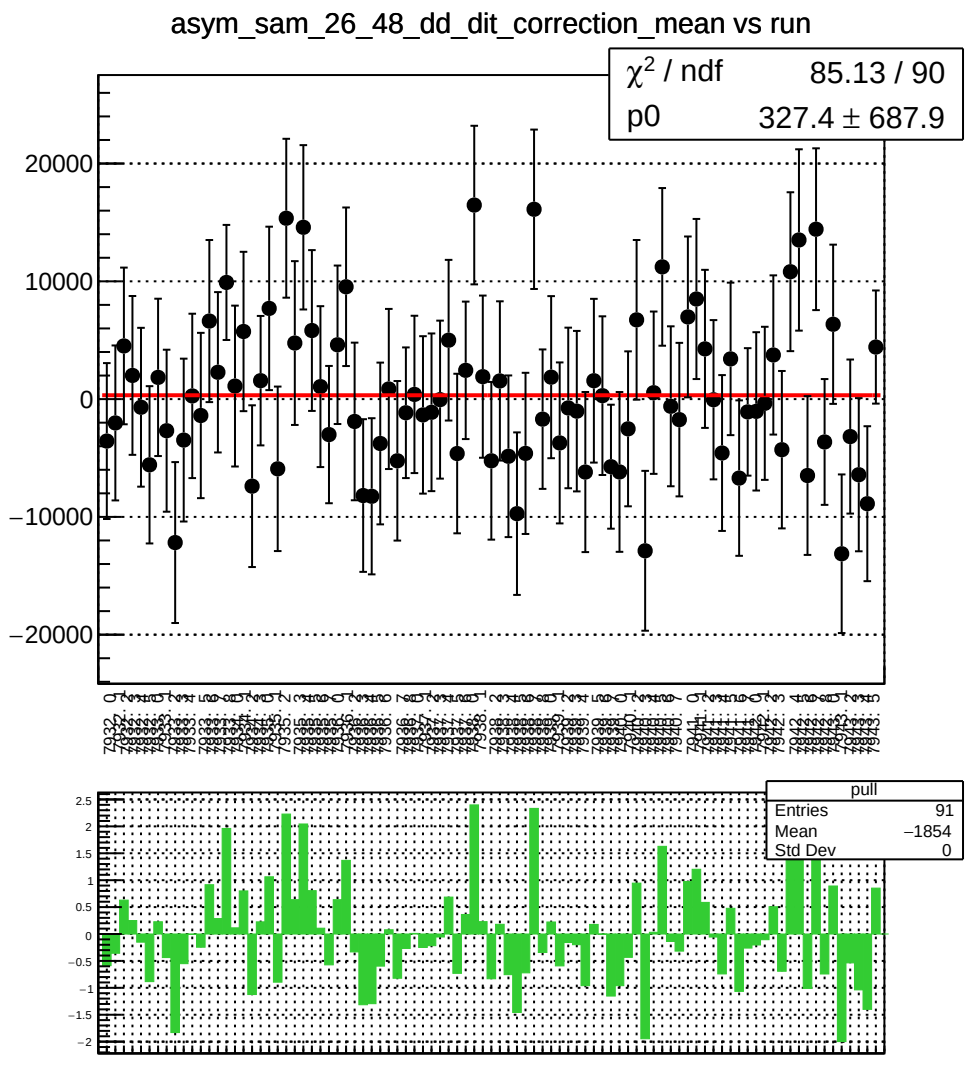

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.03 / 90
p0 402.8 ± 670.5
pull
Entries 91
Mean 3242
Std Dev 0
pull1D
Entries 91
Mean −0.0004458
Std Dev 0.9723

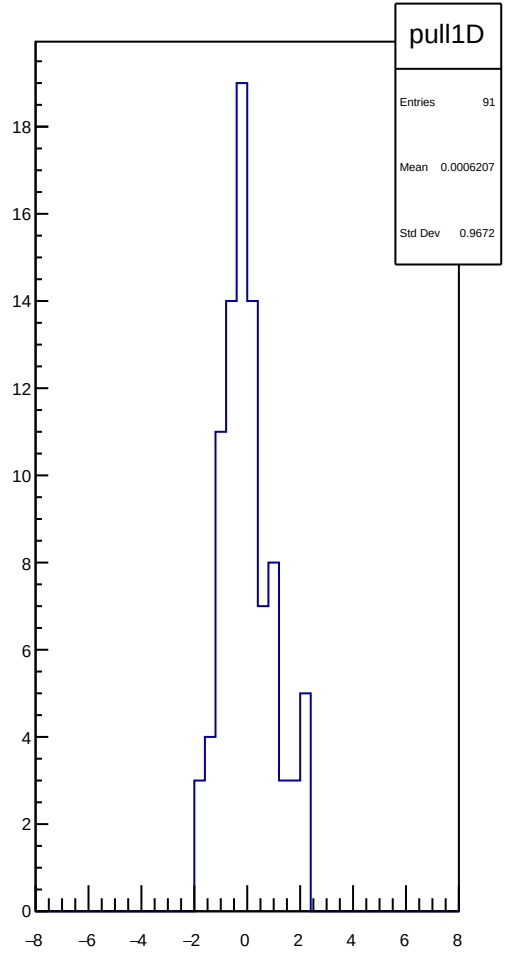

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 722.4 / 90
p0 626.7 ± 0.4741
700
680
660
640
620
600

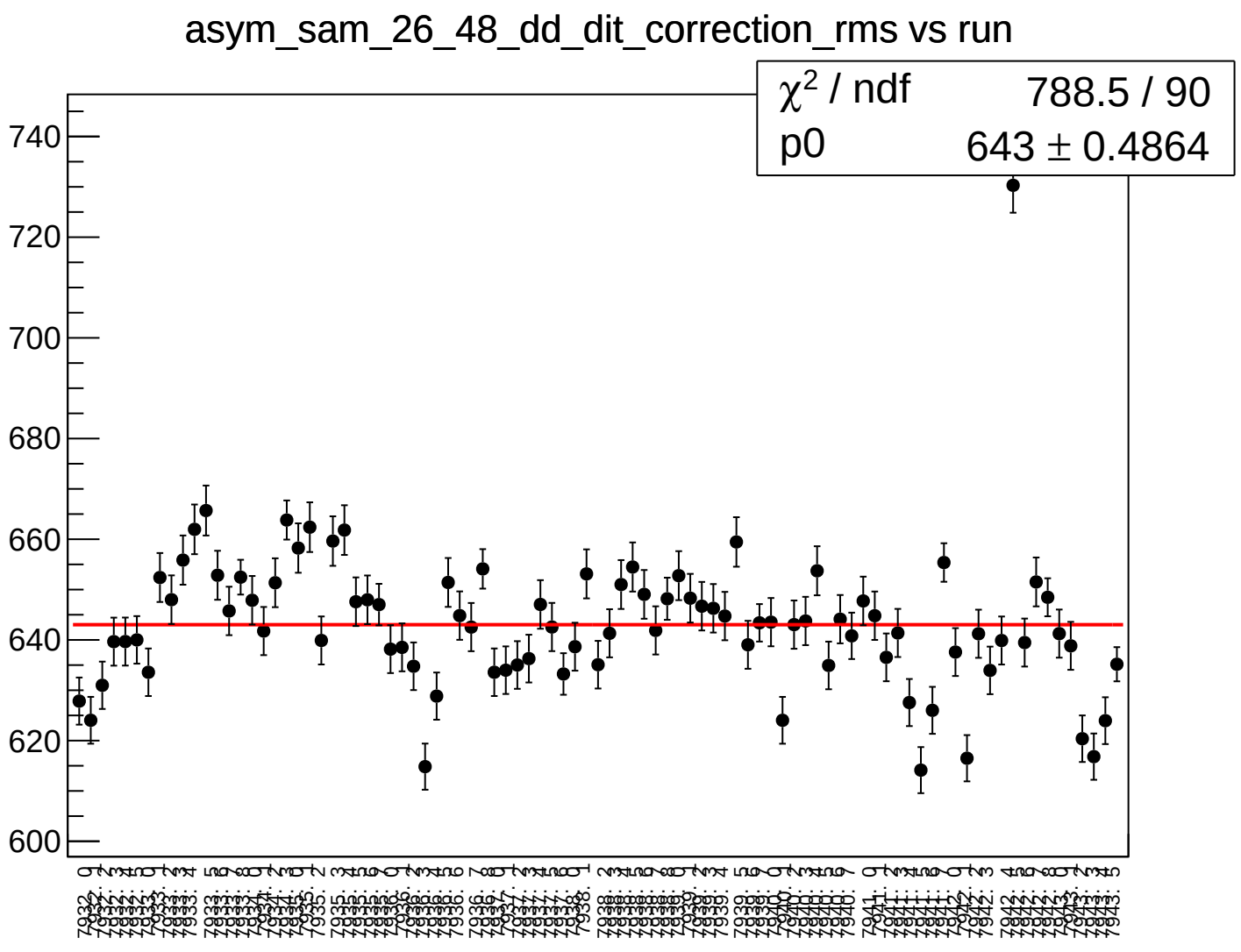

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 62.43 / 90
p0 130.1 ± 113.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 93.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

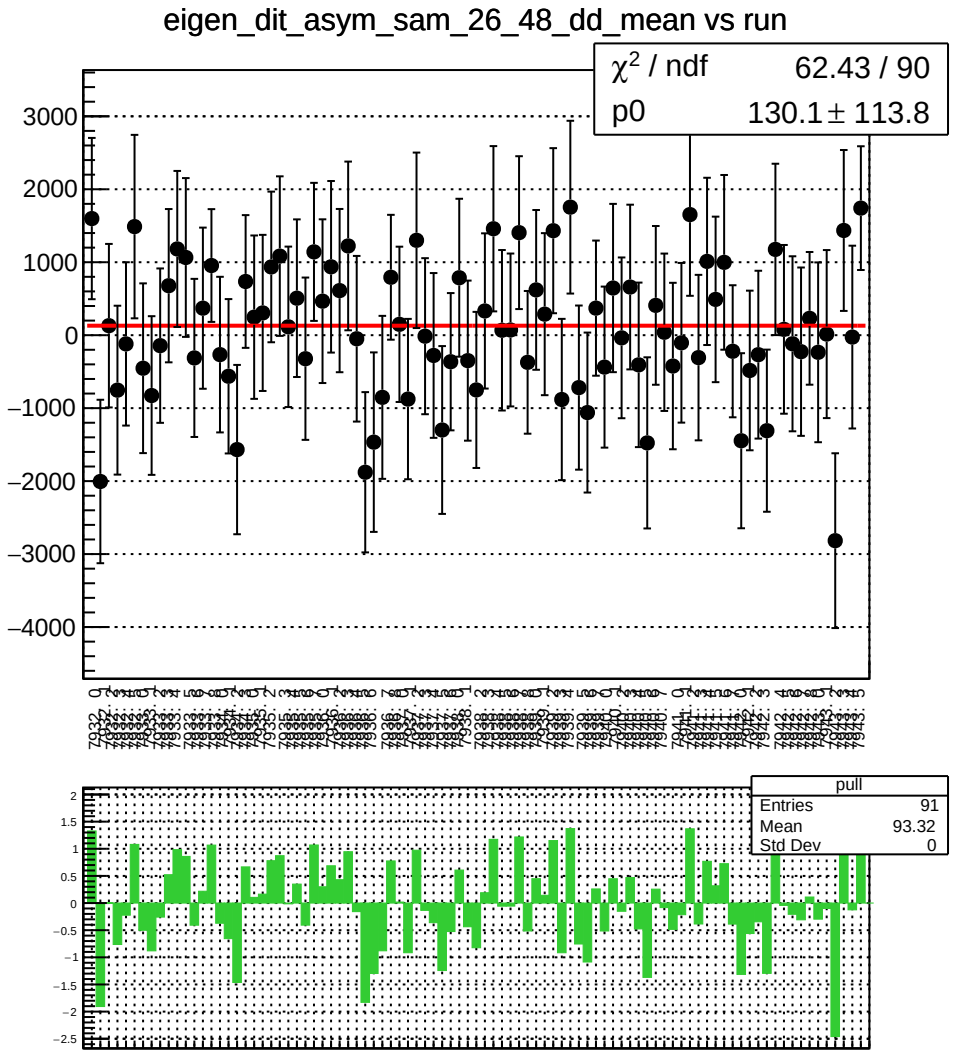

pull1D
Entries 91
Mean −0.01937
Std Dev 0.828
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

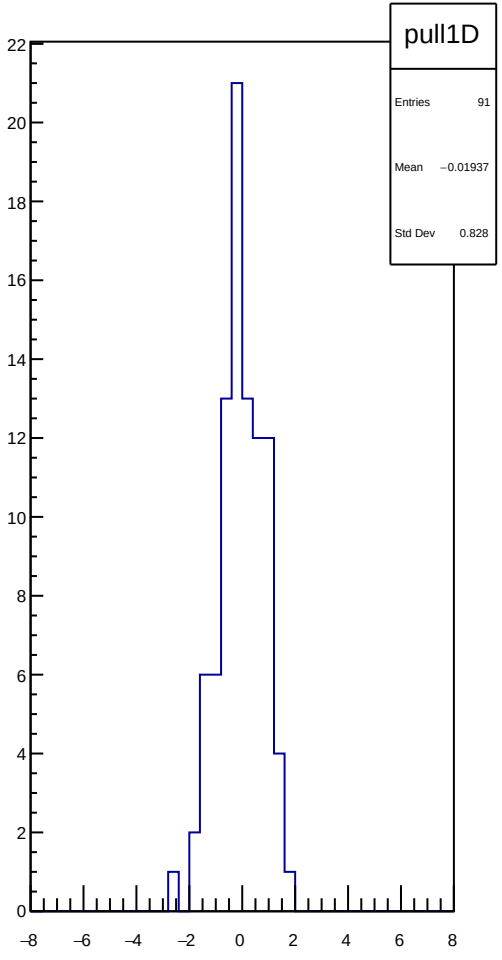

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 3012 / 90
p0 106.3 ± 0.0805
120
115
110
105
100
95

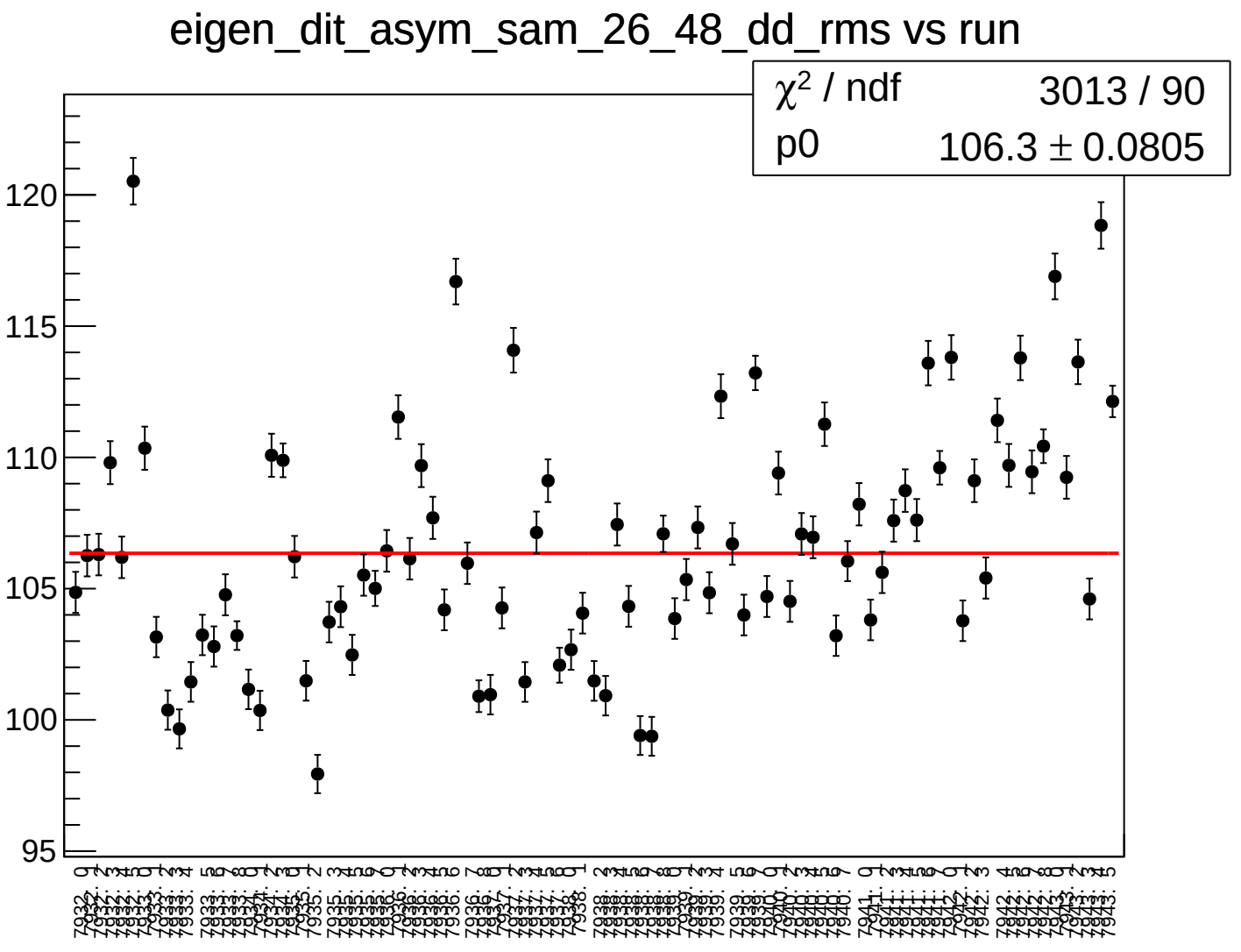

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 85.13 / 90
p0 327.4 ± 687.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −1854
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

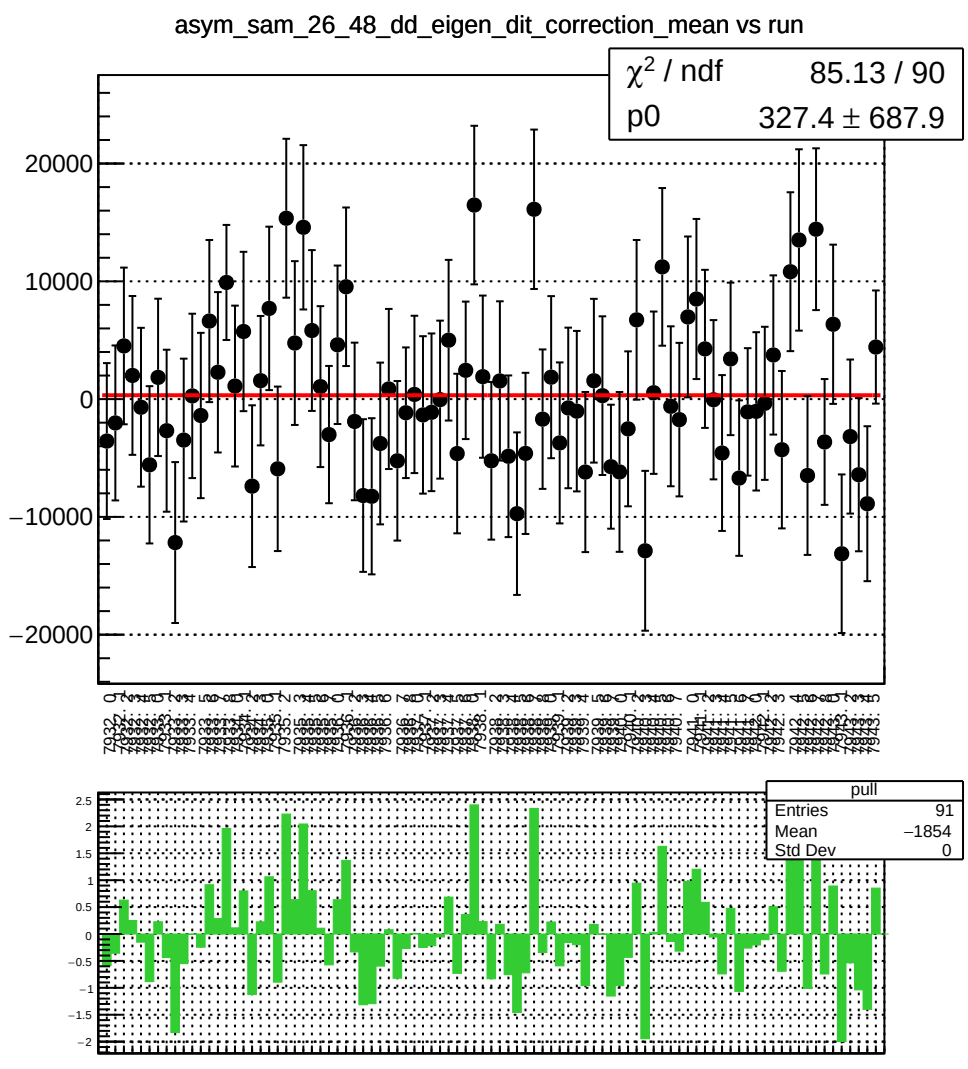

pull1D
Entries 91
Mean 0.0006207
Std Dev 0.9672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

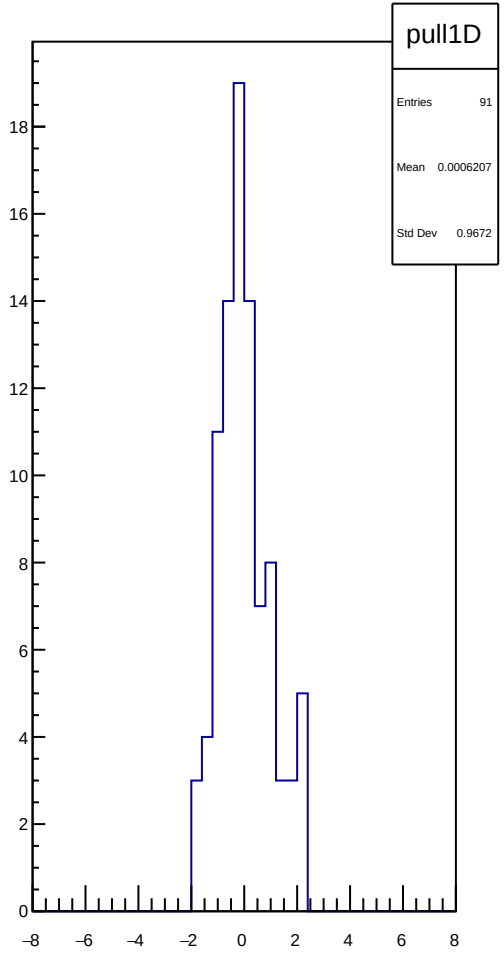

asym_sam_26_48_dd_dit_correction_rms vs run
χ^2 / ndf 788.5 / 90
p0 643 ± 0.4864
740
720
700
680
660
640
620
600

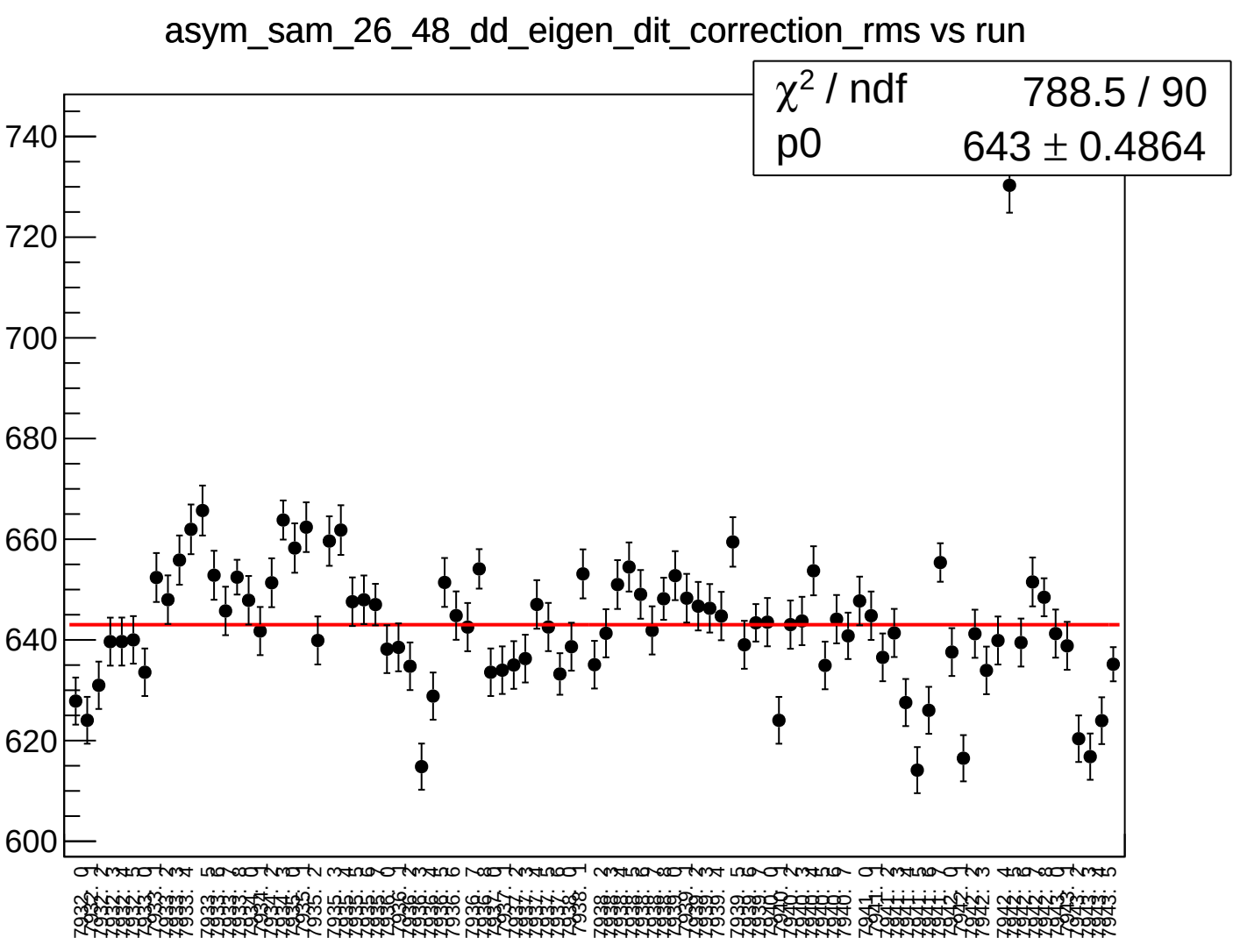

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 62.43 / 90
p0 130.1 ± 113.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 93.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

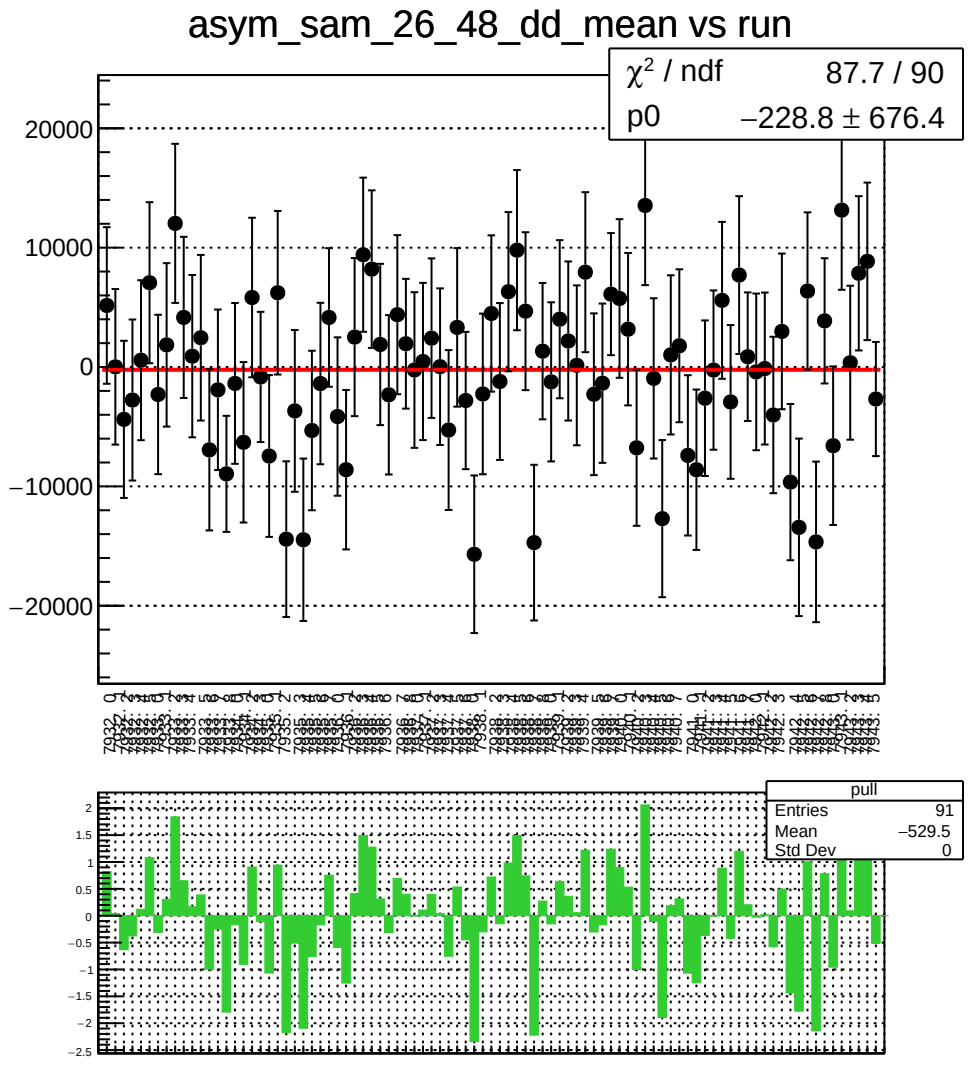

pull1D
Entries 91
Mean −0.01937
Std Dev 0.828
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

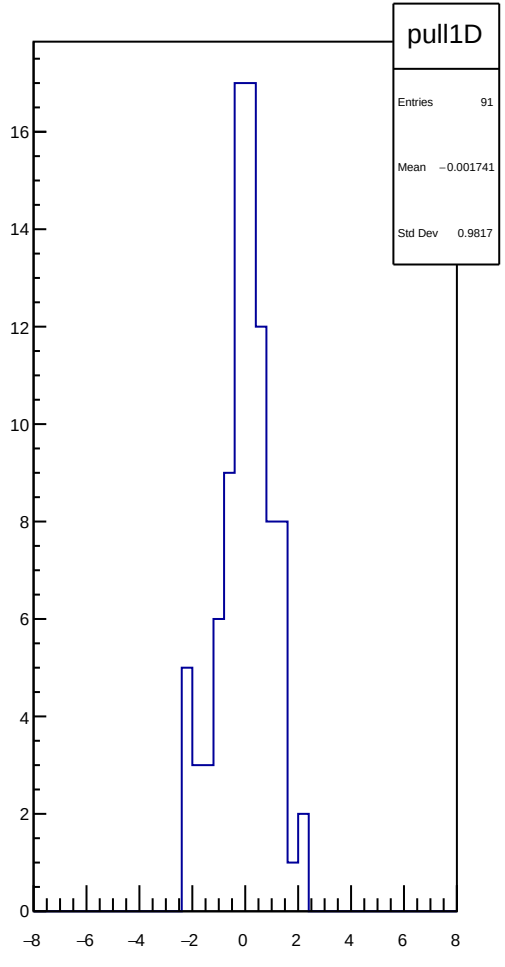

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3013 / 90
p0 106.3 ± 0.0805
120
115
110
105
100
95

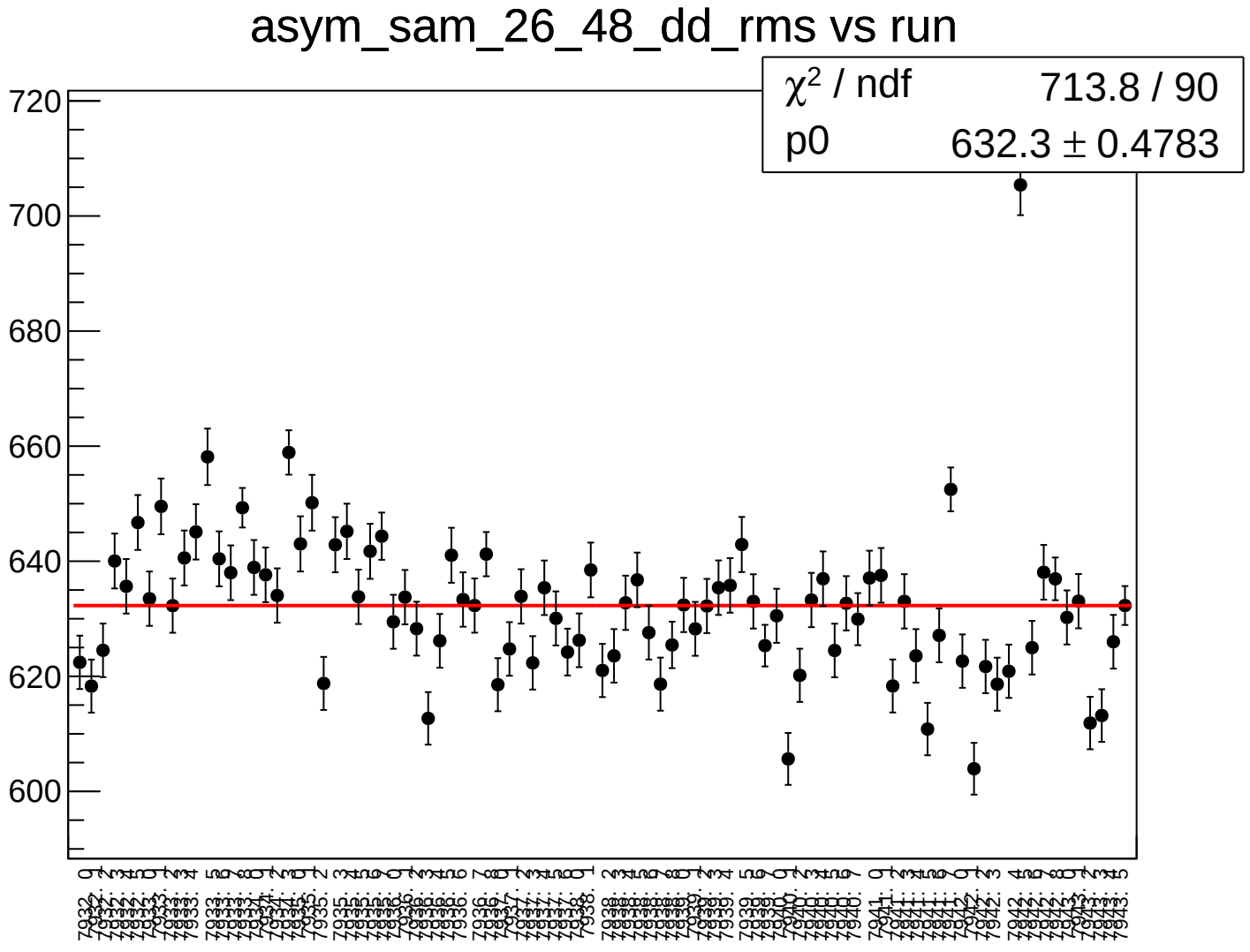

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.13 / 90
p0 327.4 ± 687.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −1854
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

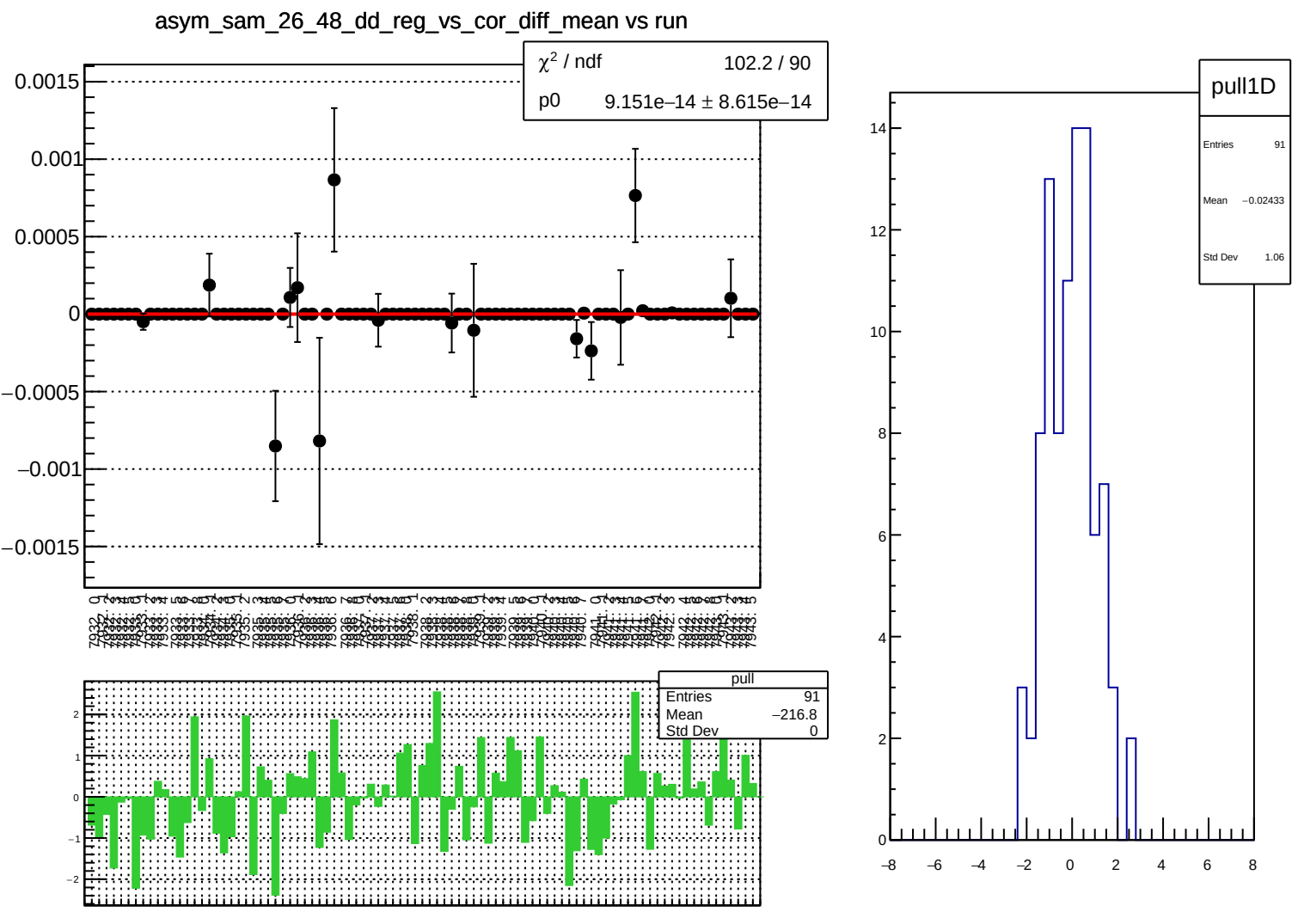

pull1D
Entries 91
Mean 0.0006207
Std Dev 0.9672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

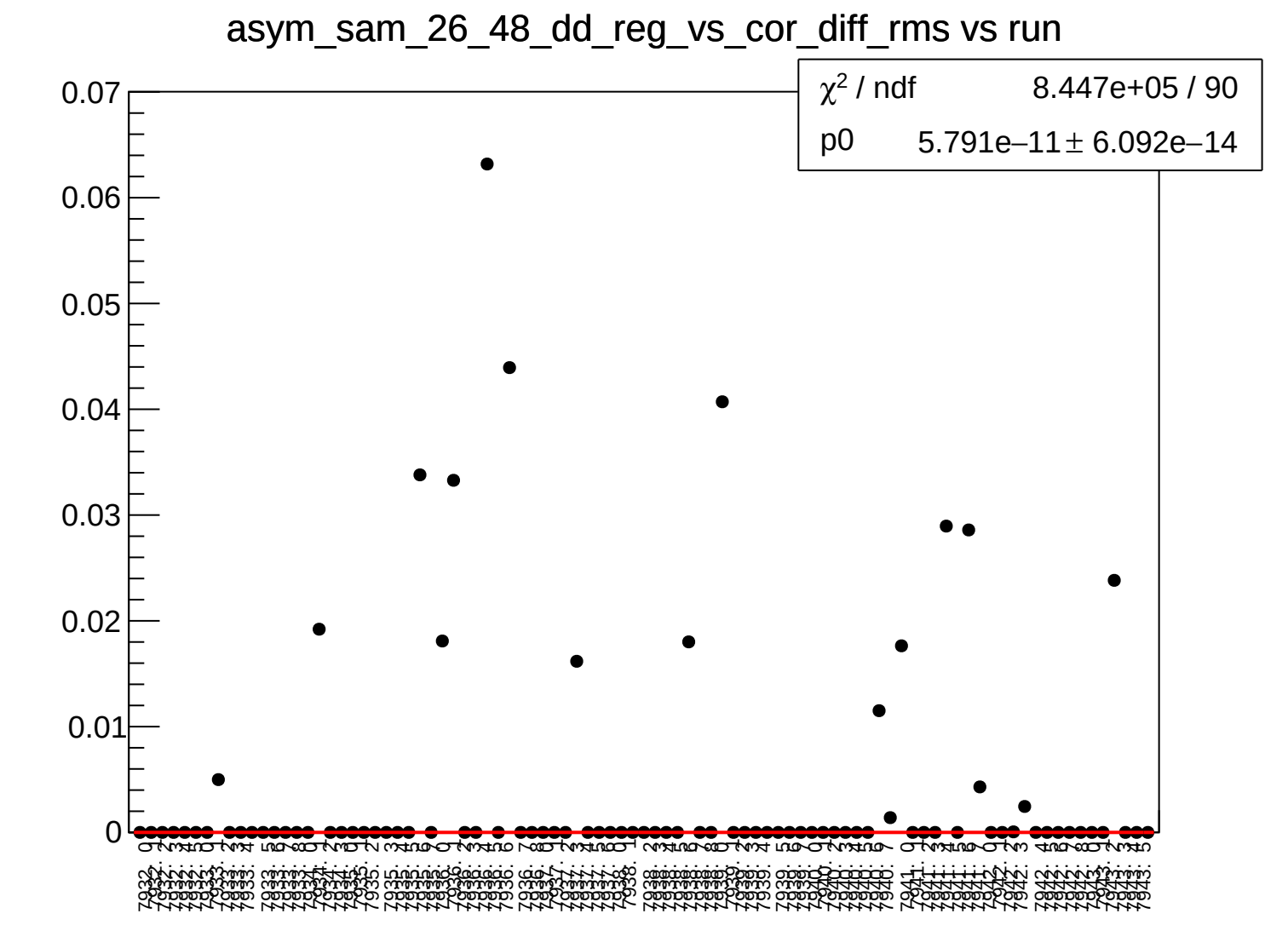

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 788.5 / 90
p0 643 ± 0.4864
740
720
700
680
660
640
620
600

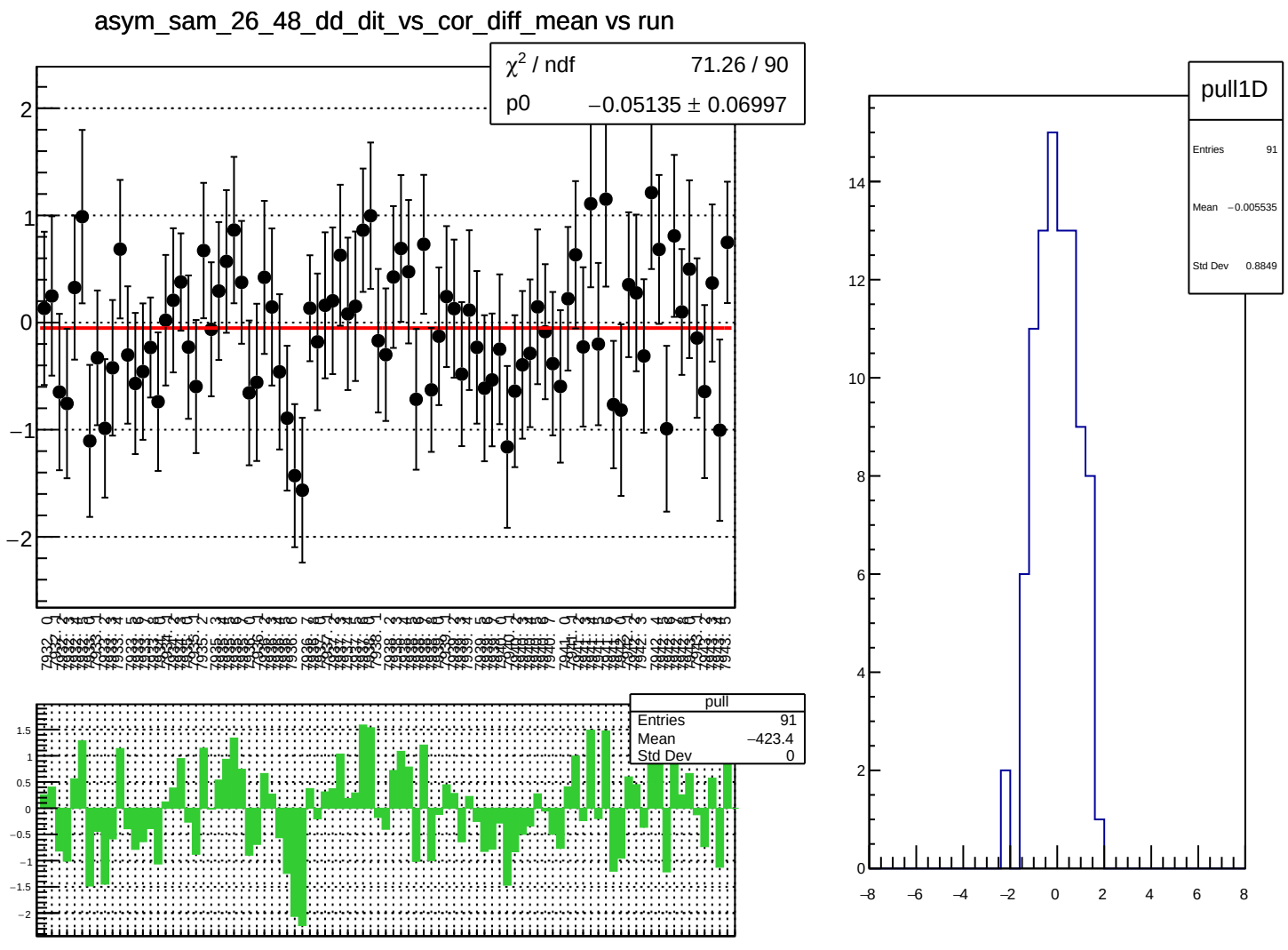

asym_sam_26_48_dd_mean vs run
χ² / ndf 87.7 / 90
p0 −228.8 ± 676.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −529.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

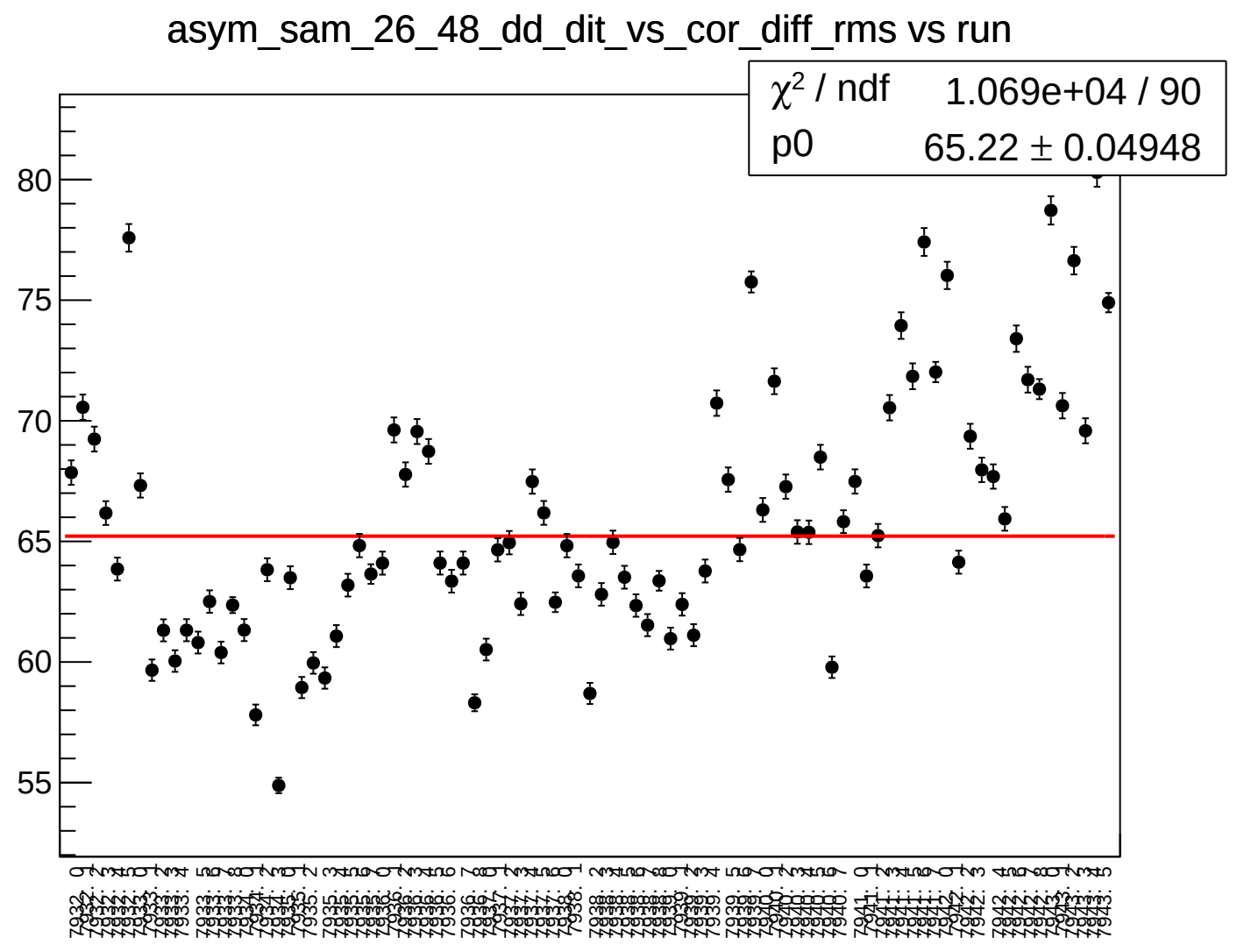

pull1D
Entries 91
Mean −0.001741
Std Dev 0.9817
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

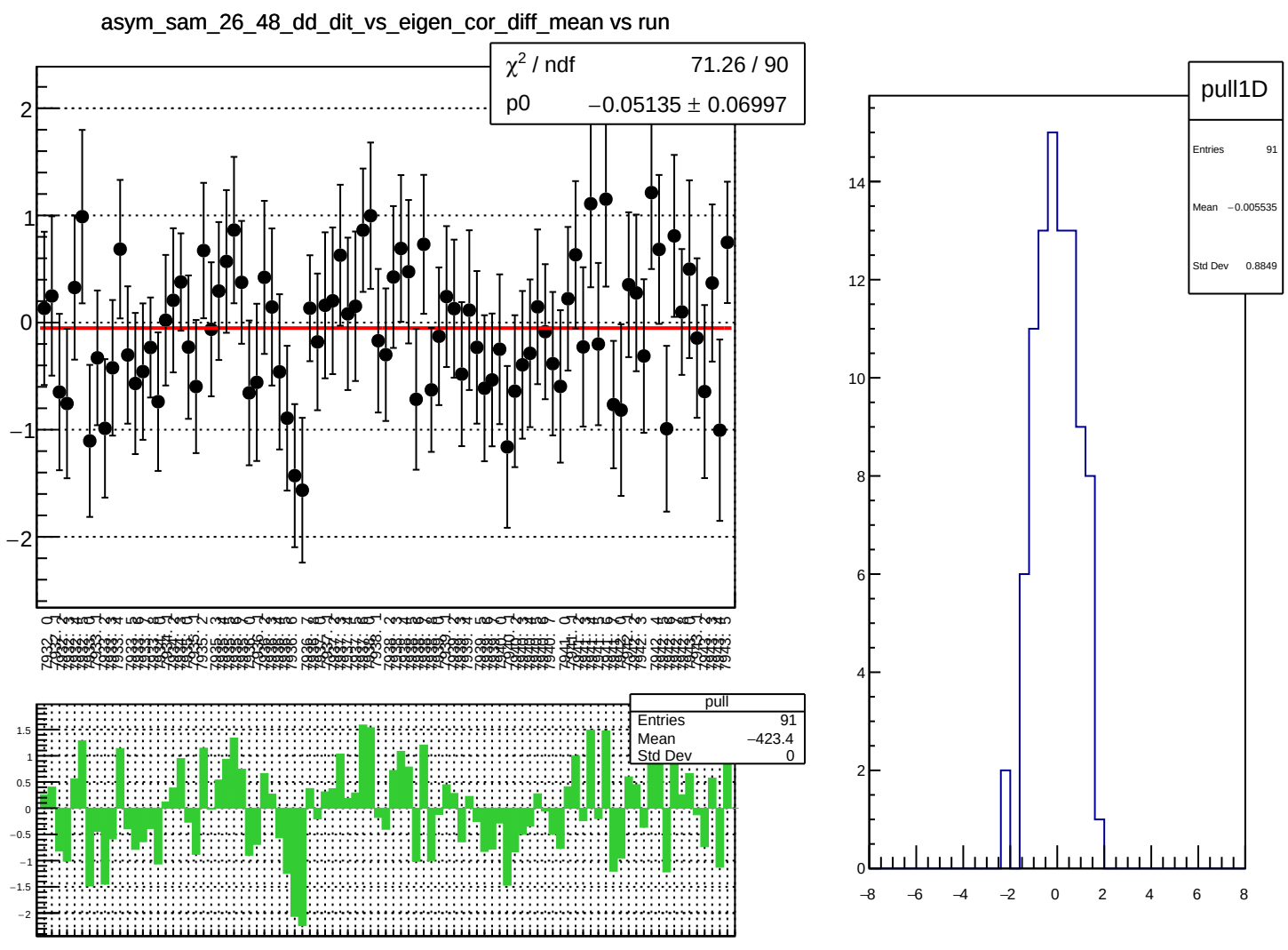

asym_sam_26_48_dd_rms vs run
χ² / ndf 713.8 / 90
p0 632.3 ± 0.4783
720
700
680
660
640
620
600

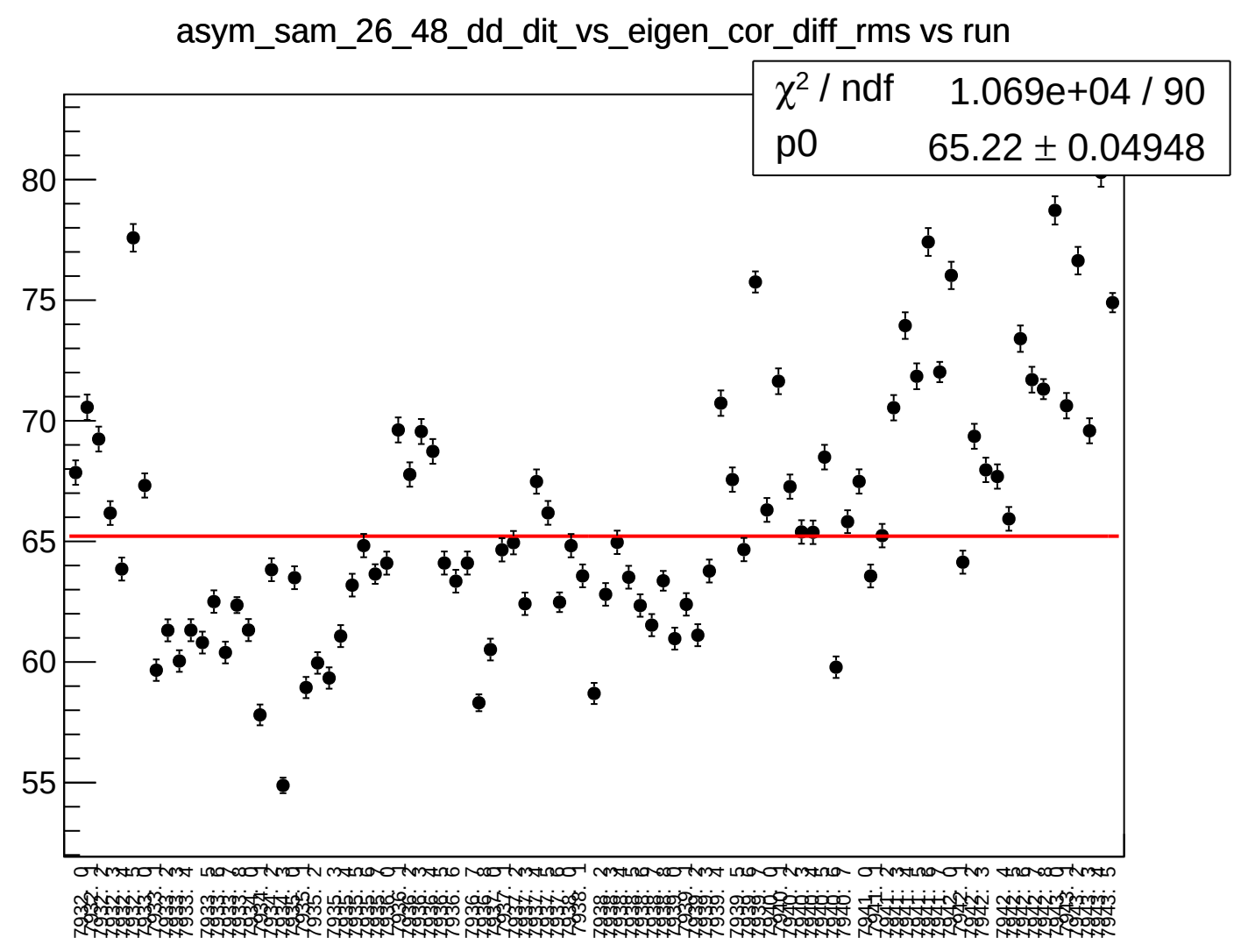

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 90
p0 9.151e−14 ± 8.615e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean −216.8
Std Dev 0
pull1D
Entries 91
Mean −0.02433
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

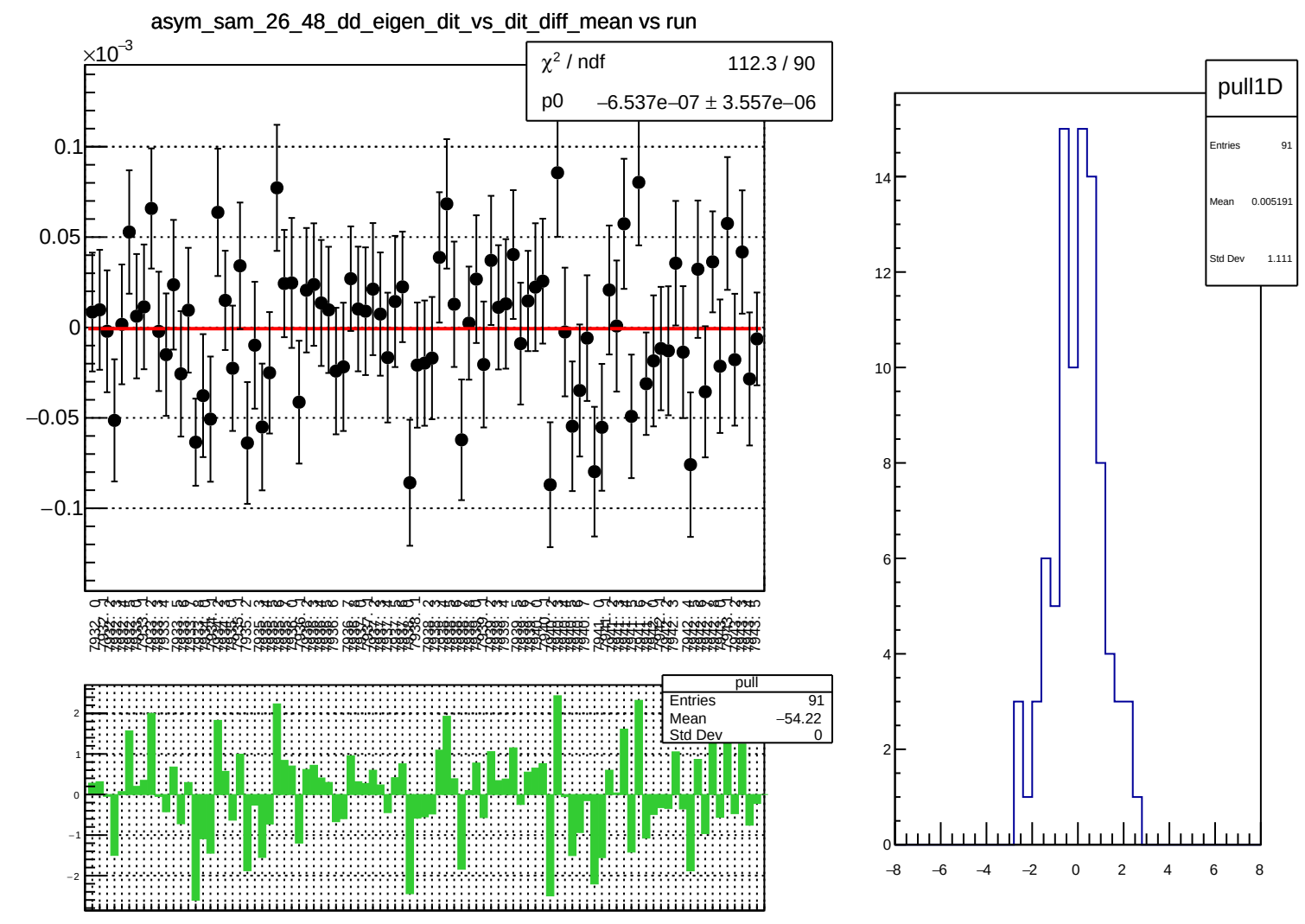

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.447e+05 / 90
p0 5.791e−11 ± 6.092e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

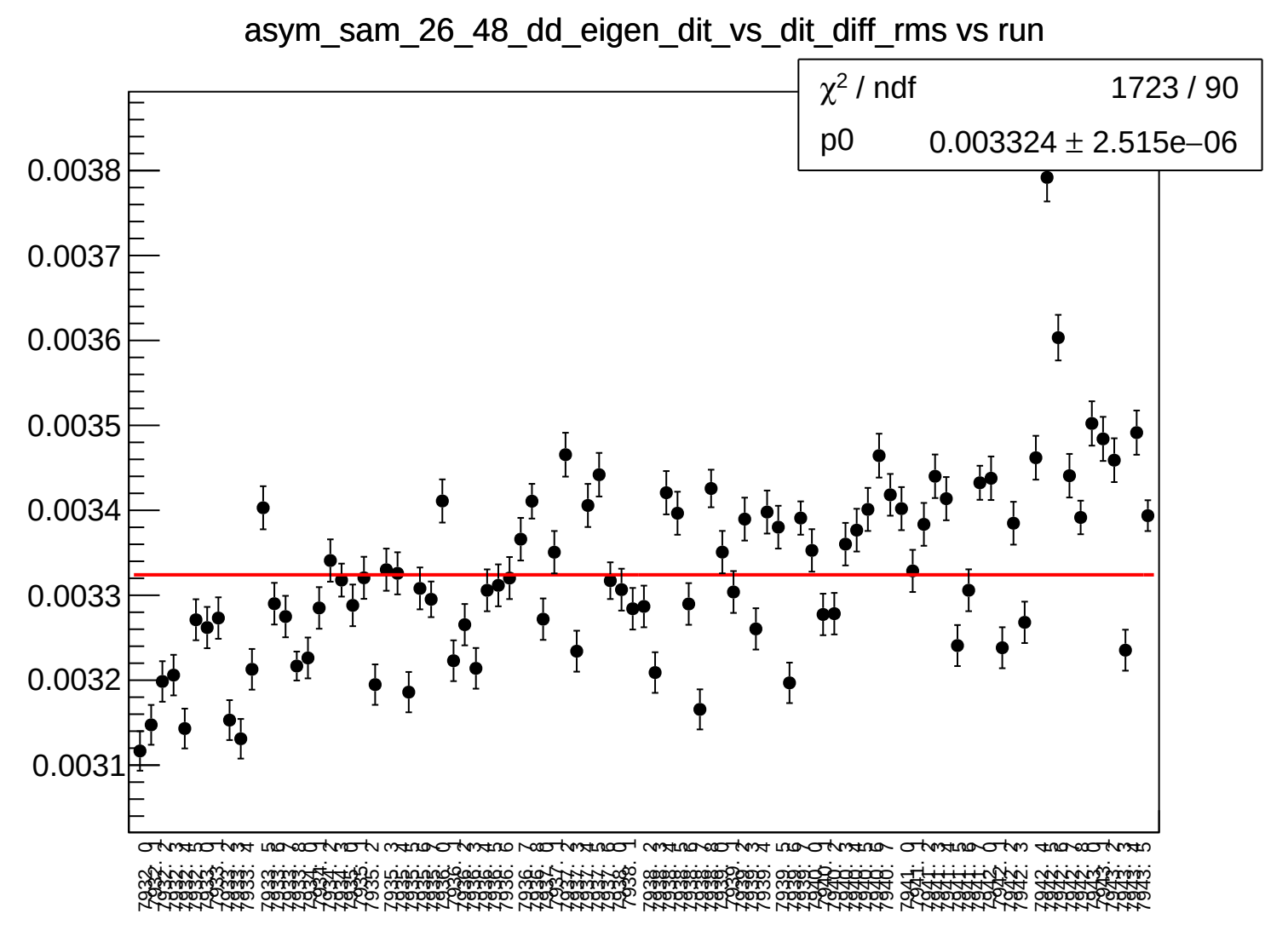

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.26 / 90
p0 −0.05135 ± 0.06997
pull
Entries 91
Mean −423.4
Std Dev 0
pull1D
Entries 91
Mean −0.005535
Std Dev 0.8849

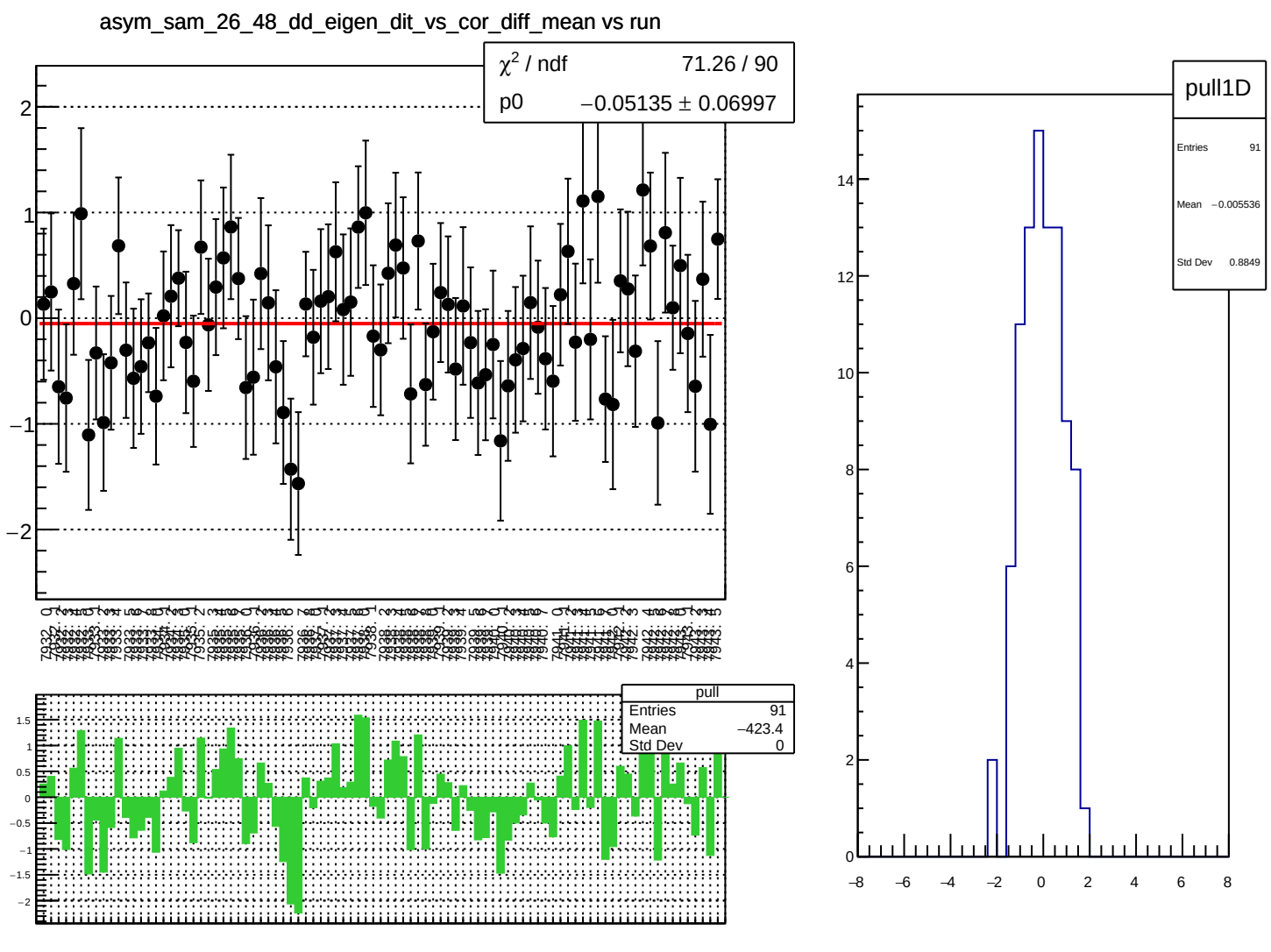

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 90
p0 65.22 ± 0.04948
80
75
70
65
60
55

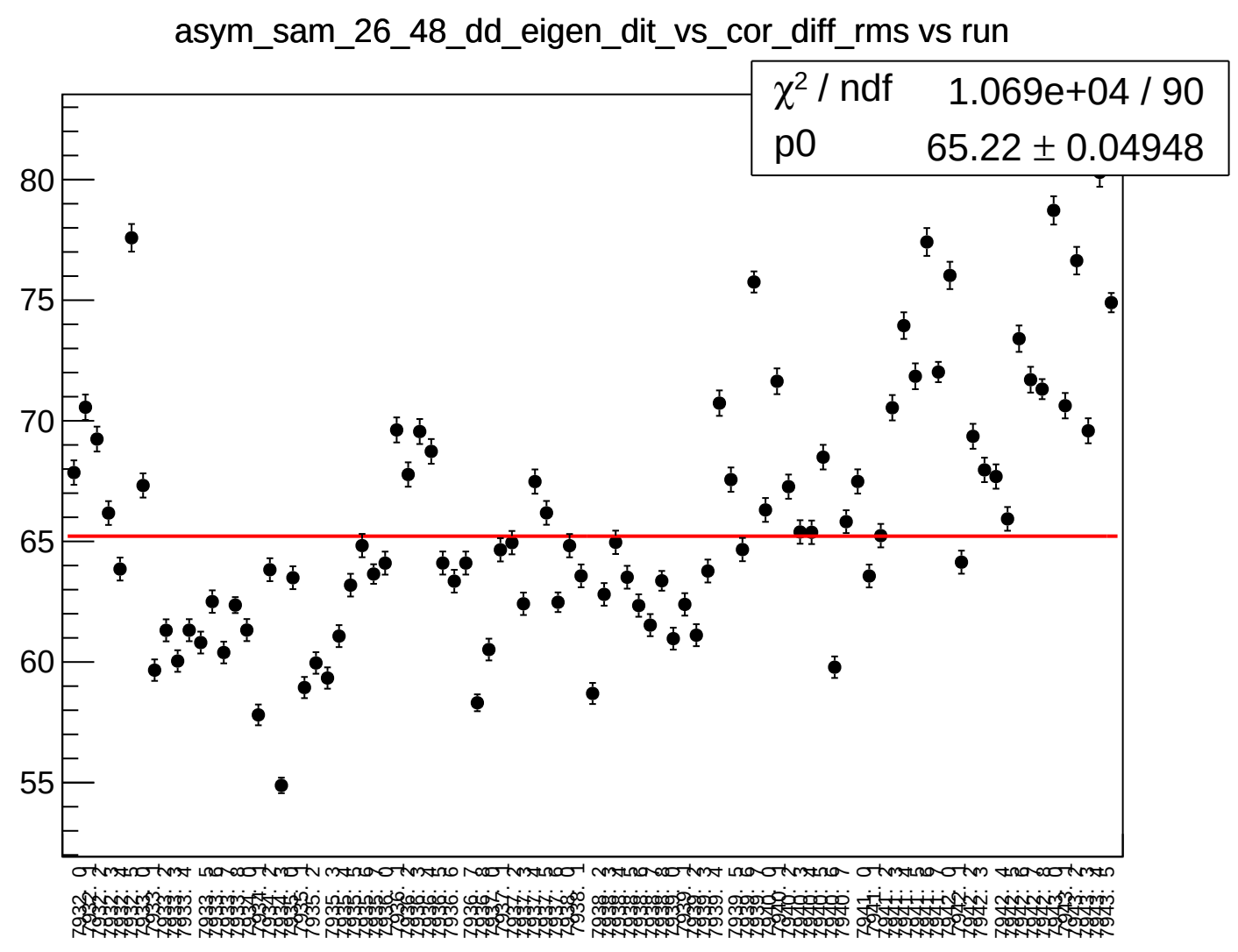

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.26 / 90
p0 −0.05135 ± 0.06997
pull
Entries 91
Mean −423.4
Std Dev 0
pull1D
Entries 91
Mean −0.005535
Std Dev 0.8849

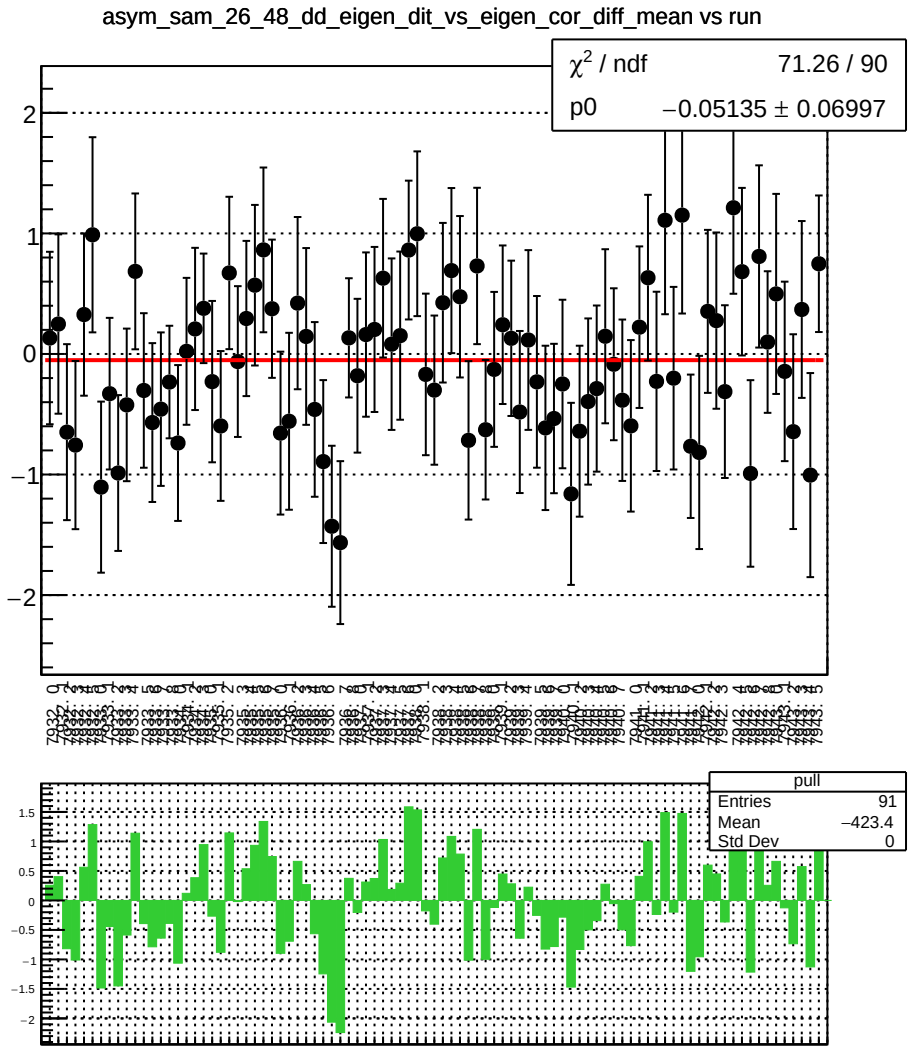

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 90
p0 65.22 ± 0.04948
80
75
70
65
60
55

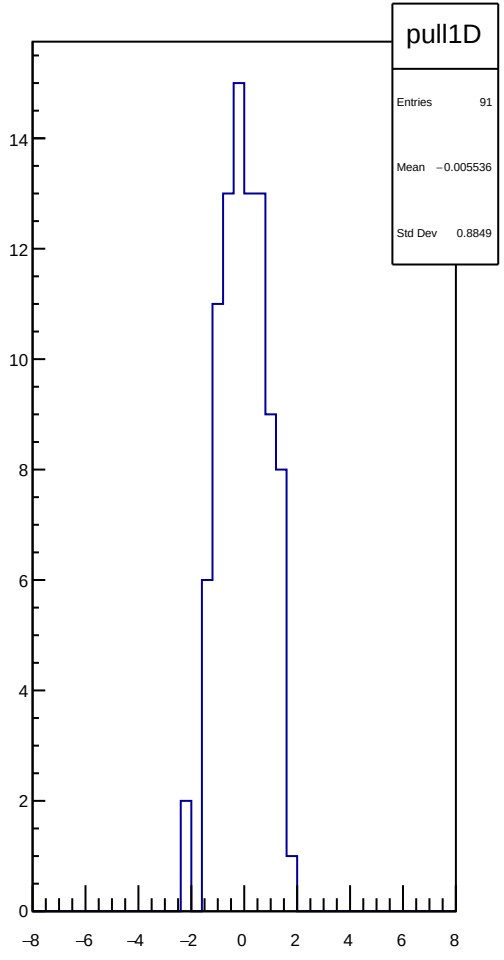

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.3 / 90
p0 −6.537e−07 ± 3.557e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −54.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.005191
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

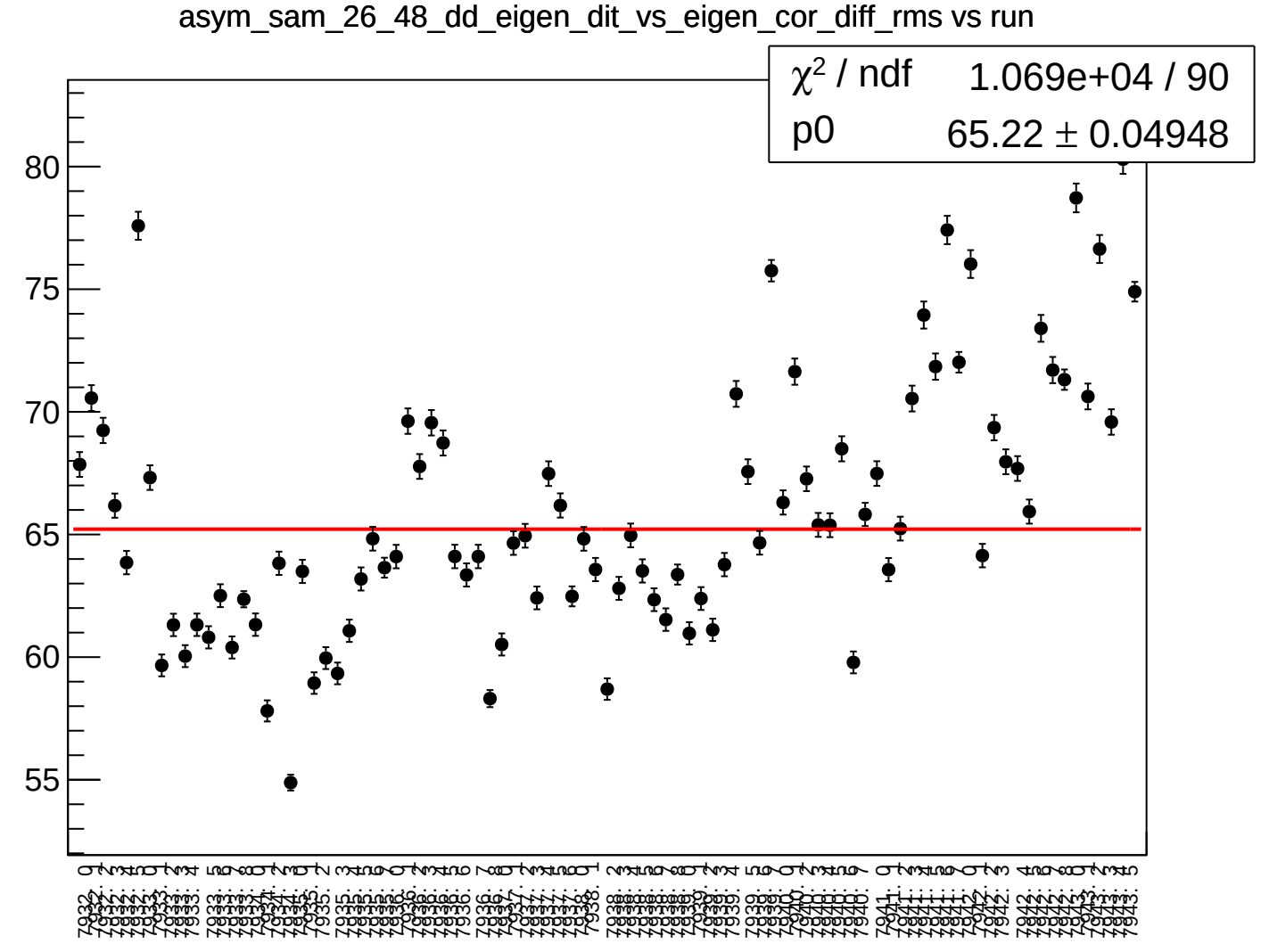

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1723 / 90
p0 0.003324 ± 2.515e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

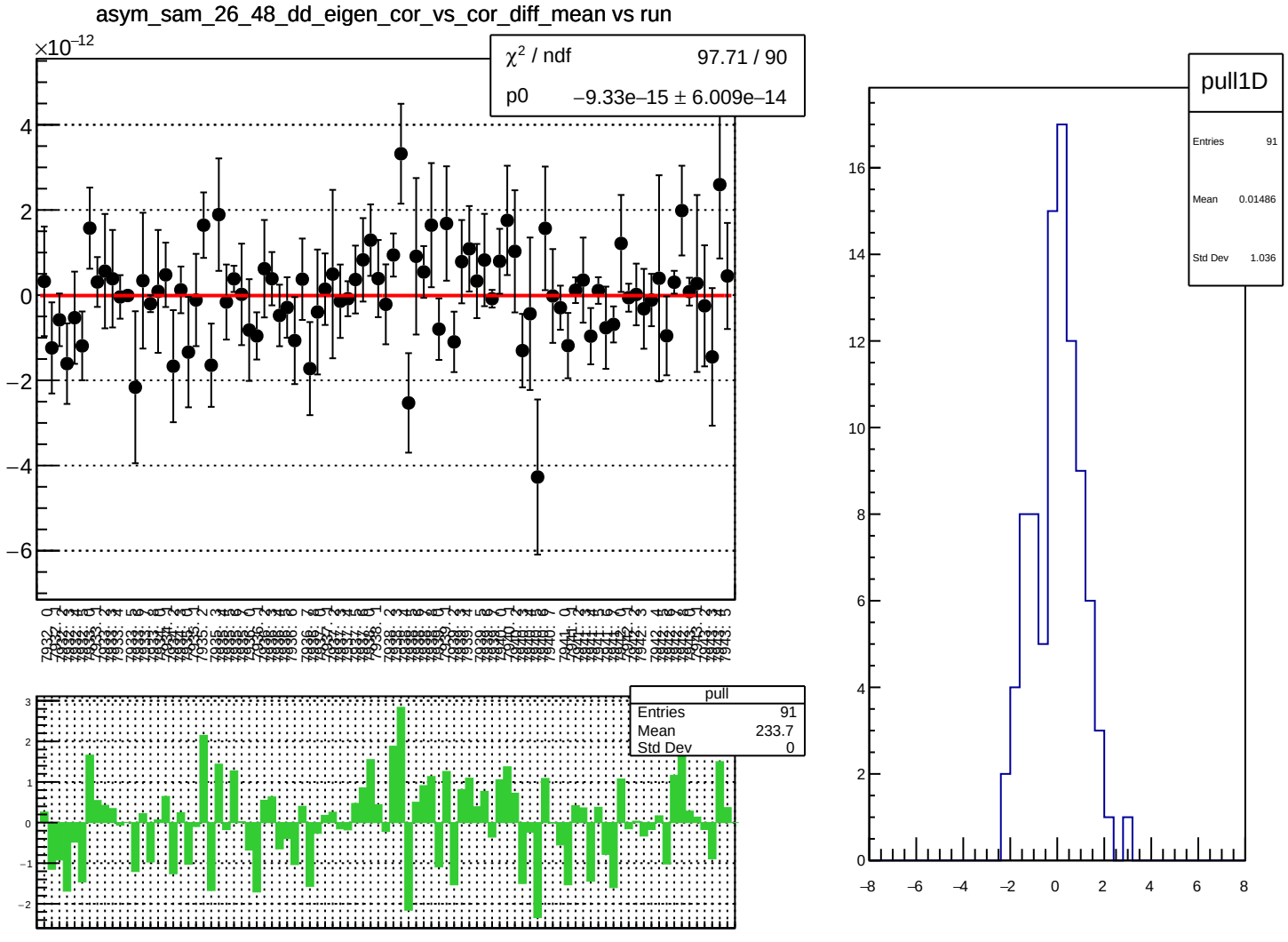

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.26 / 90
p0 −0.05135 ± 0.06997
pull
Entries 91
Mean −423.4
Std Dev 0
pull1D
Entries 91
Mean −0.005536
Std Dev 0.8849

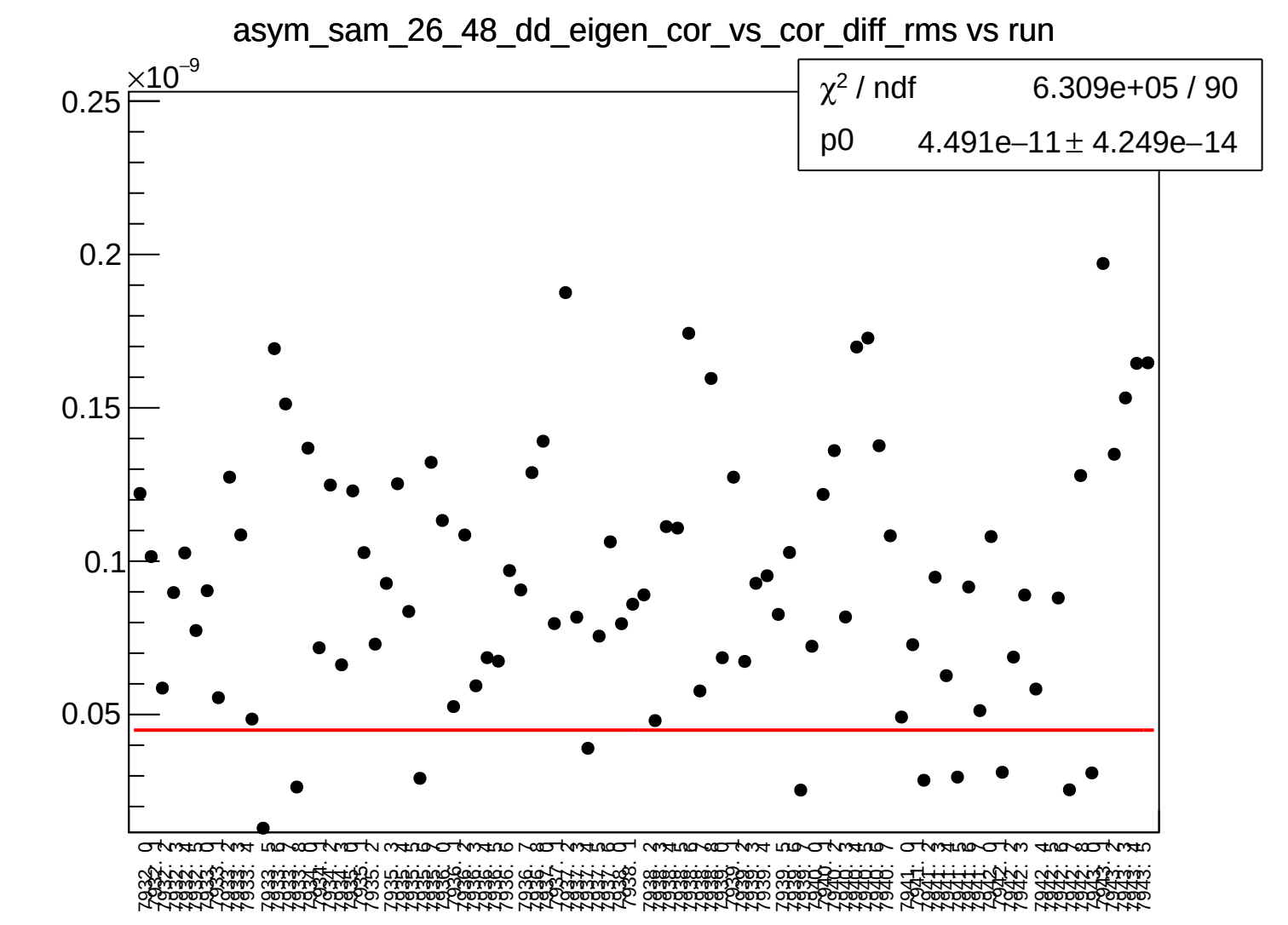

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 90
p0 65.22 ± 0.04948
80
75
70
65
60
55

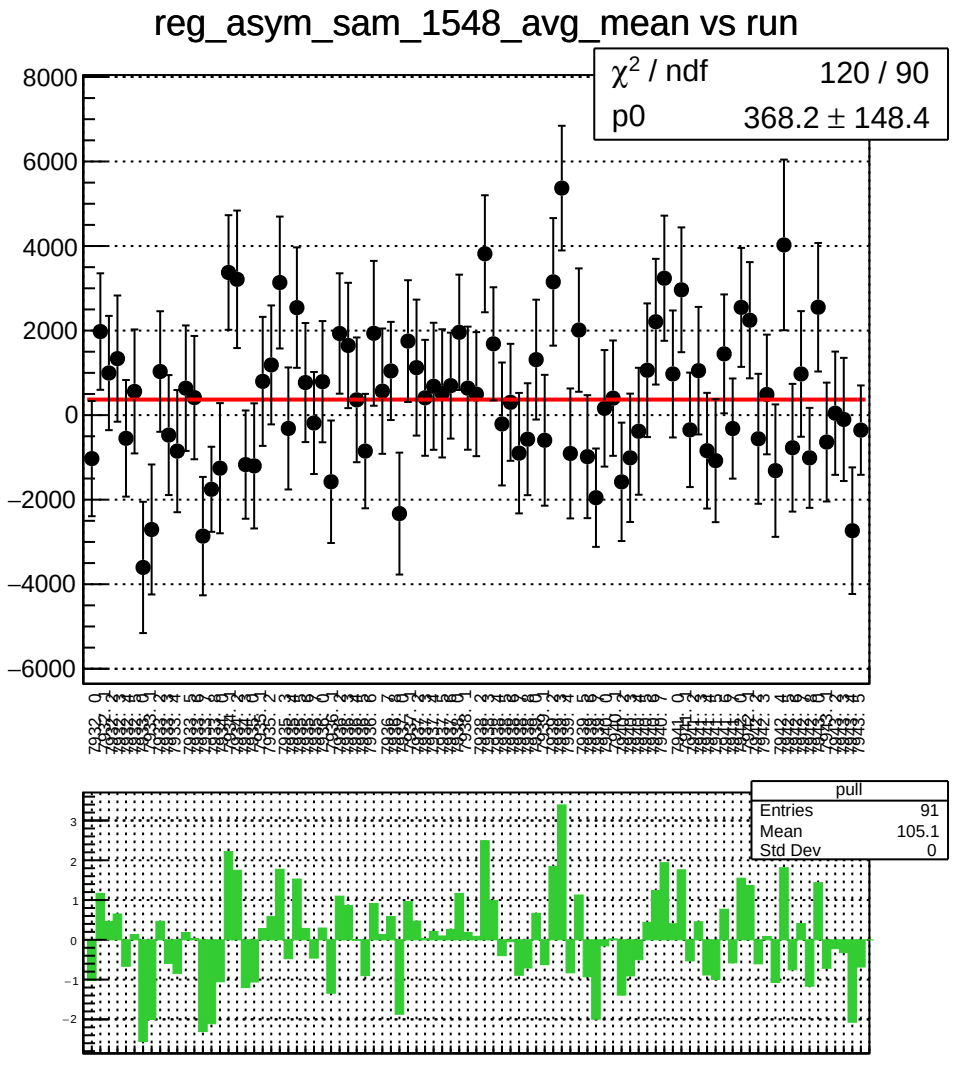

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.26 / 90
p0 −0.05135 ± 0.06997
pull
Entries 91
Mean −423.4
Std Dev 0

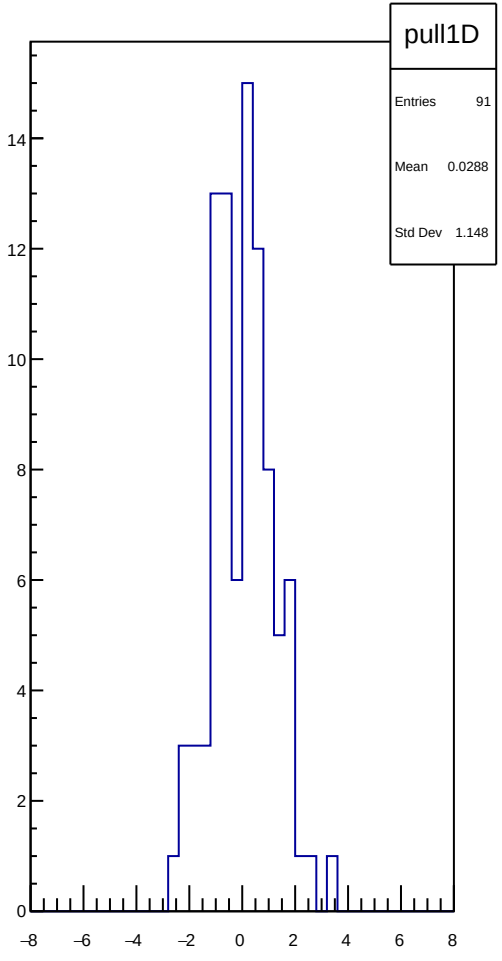

pull1D
Entries 91
Mean −0.005536
Std Dev 0.8849

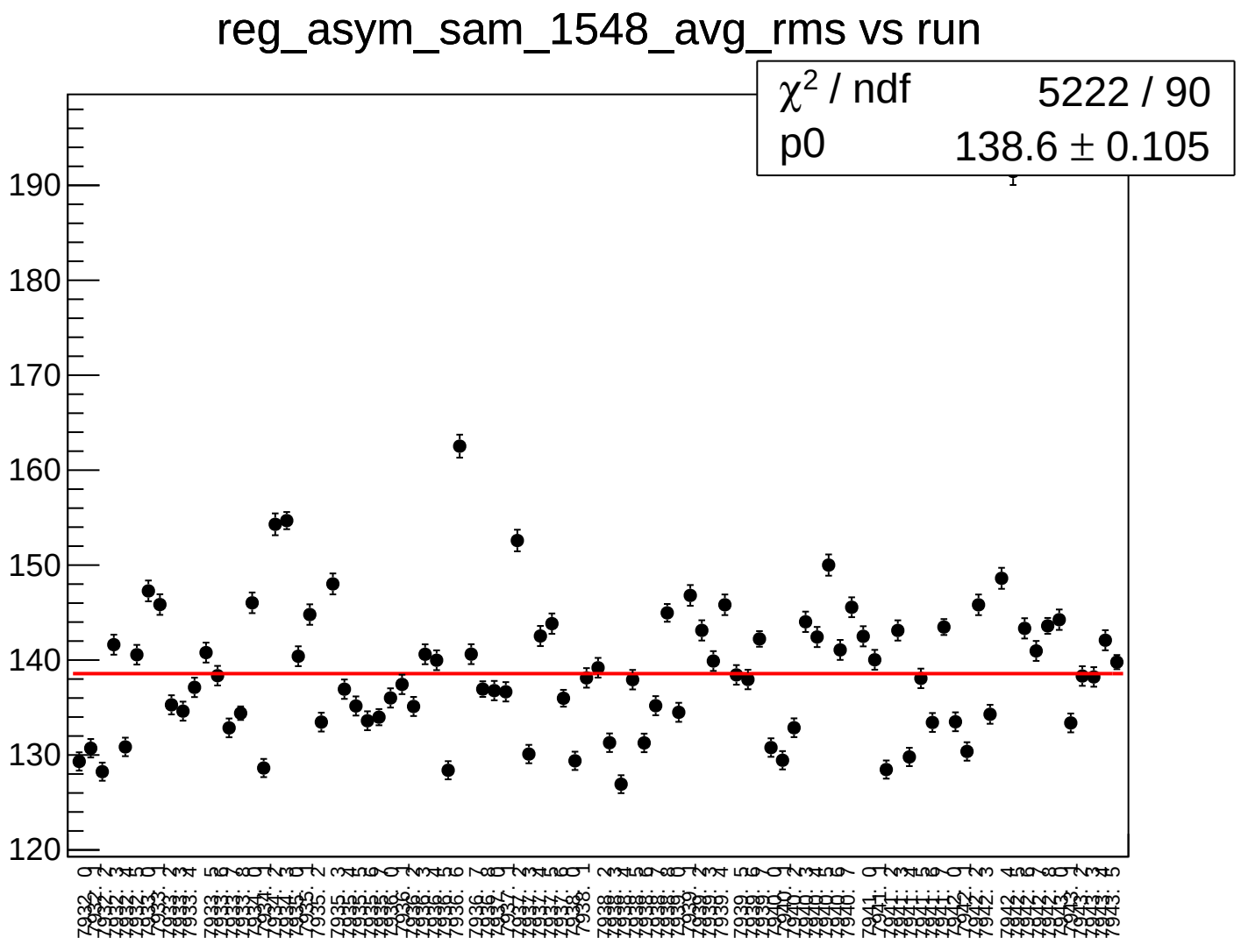

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.069e+04 / 90
p0 65.22 ± 0.04948
80
75
70
65
60
55

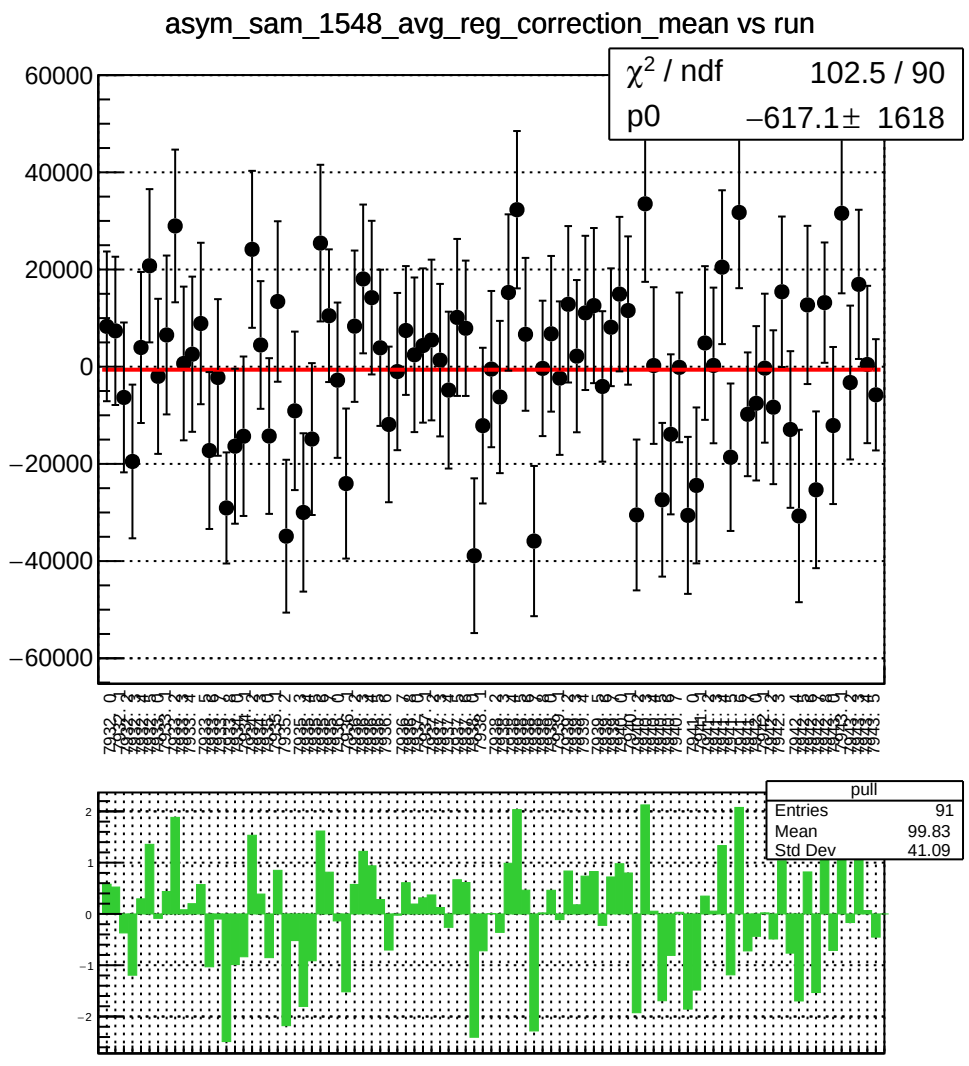

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.71 / 90
p0 −9.33e−15 ± 6.009e−14
pull
Entries 91
Mean 233.7
Std Dev 0
pull1D
Entries 91
Mean 0.01486
Std Dev 1.036

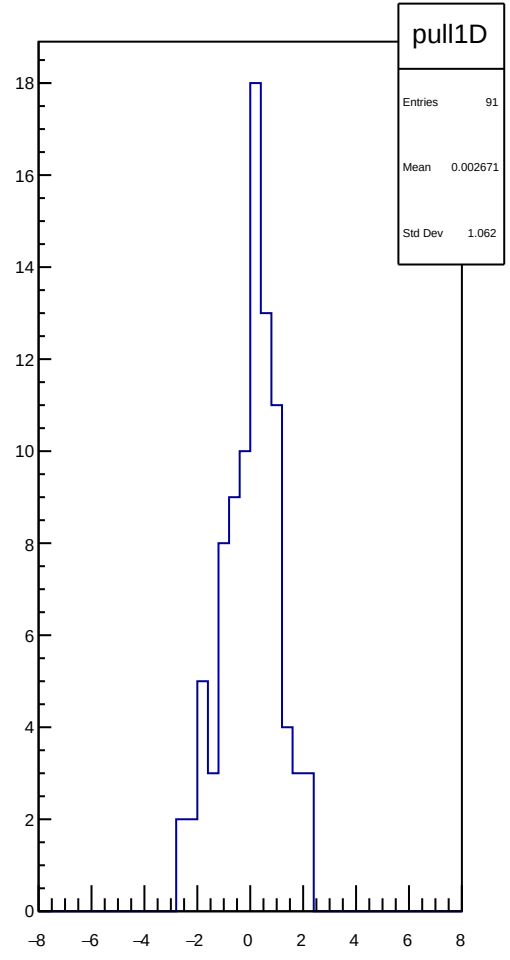

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.309e+05 / 90
p0 4.491e−11 ± 4.249e−14

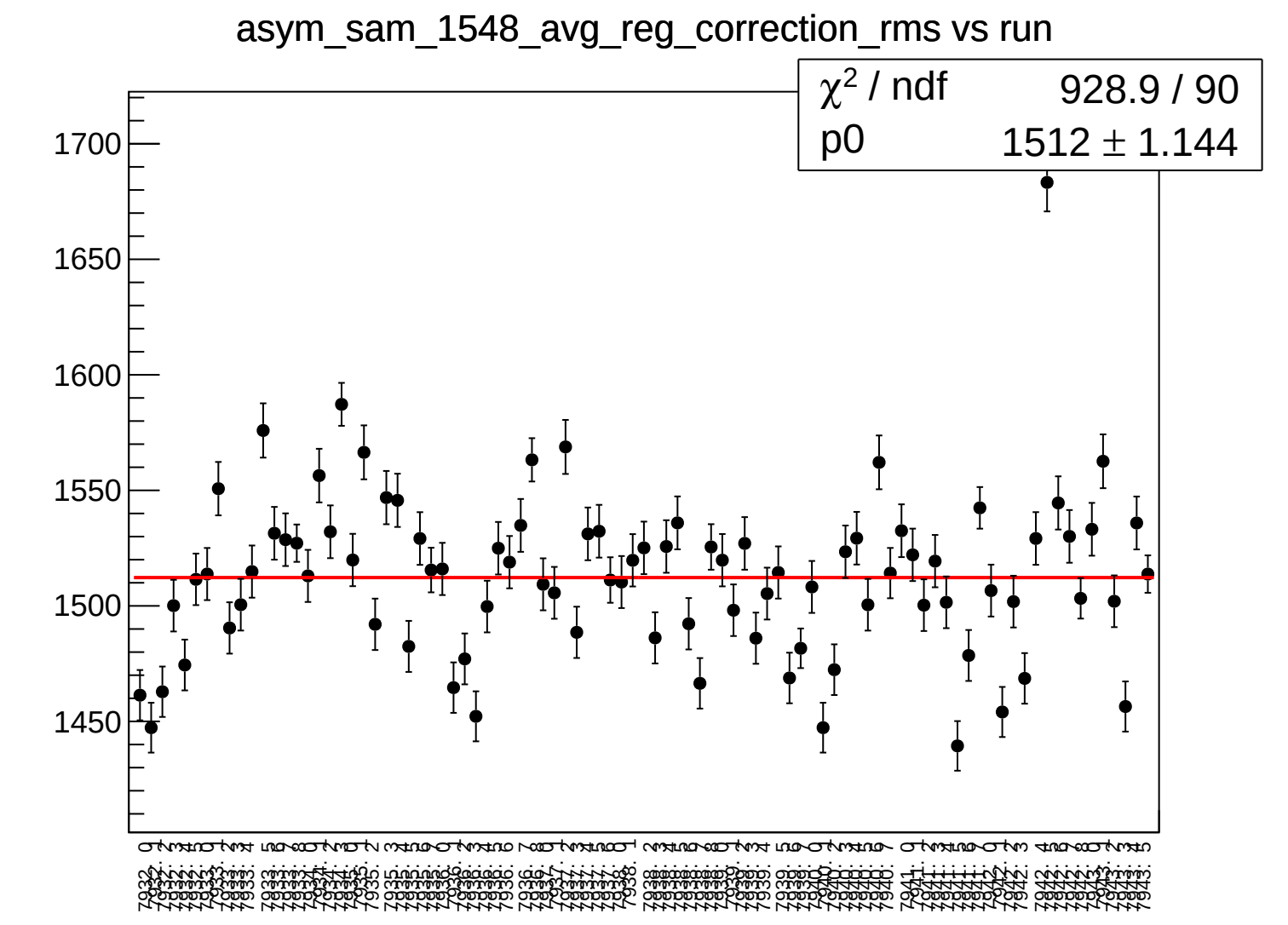

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 120 / 90
p0 368.2 ± 148.4
pull
Entries 91
Mean 105.1
Std Dev 0

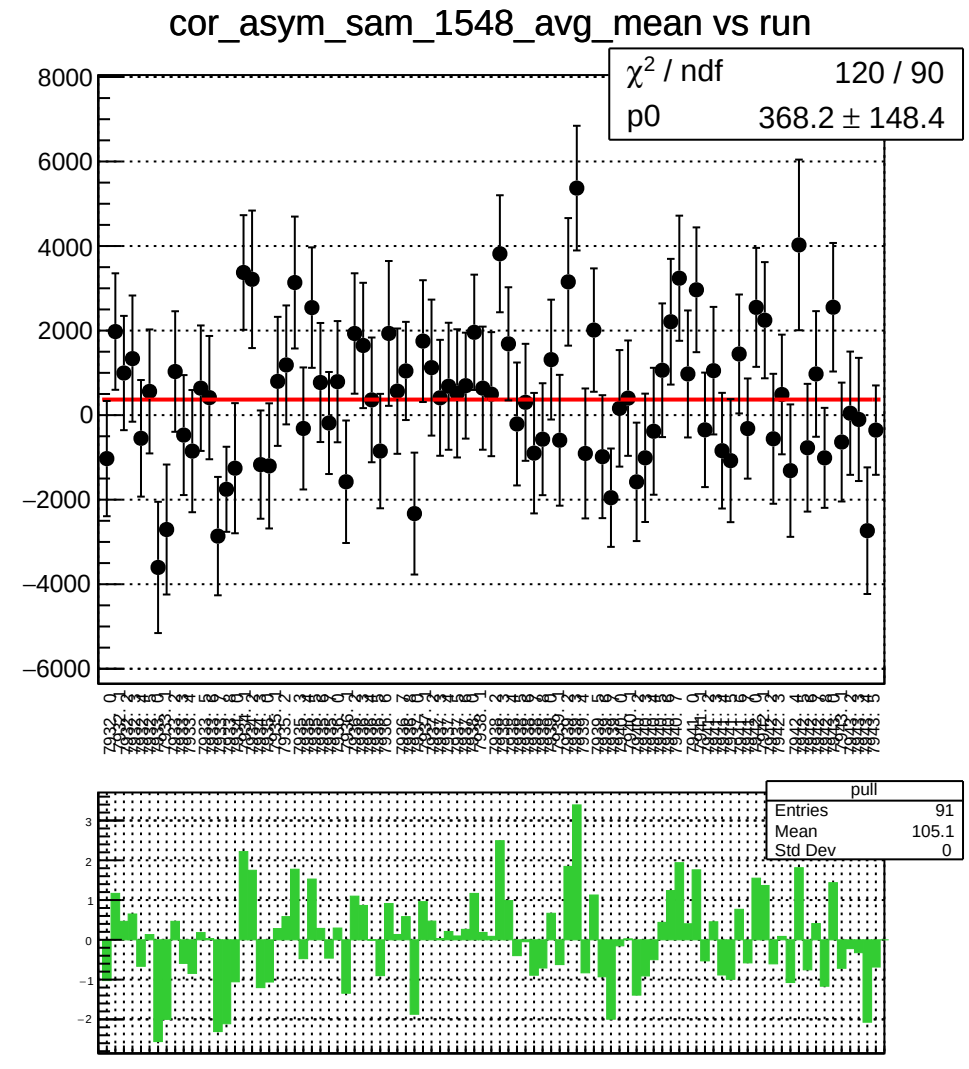

pull1D
Entries 91
Mean 0.0288
Std Dev 1.148

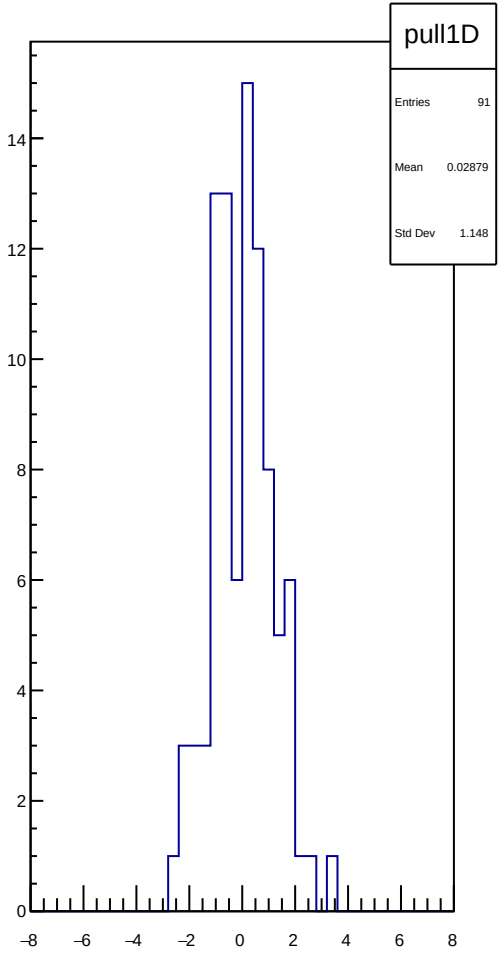

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 5222 / 90
p0 138.6 ± 0.105
190
180
170
160
150
140
130
120

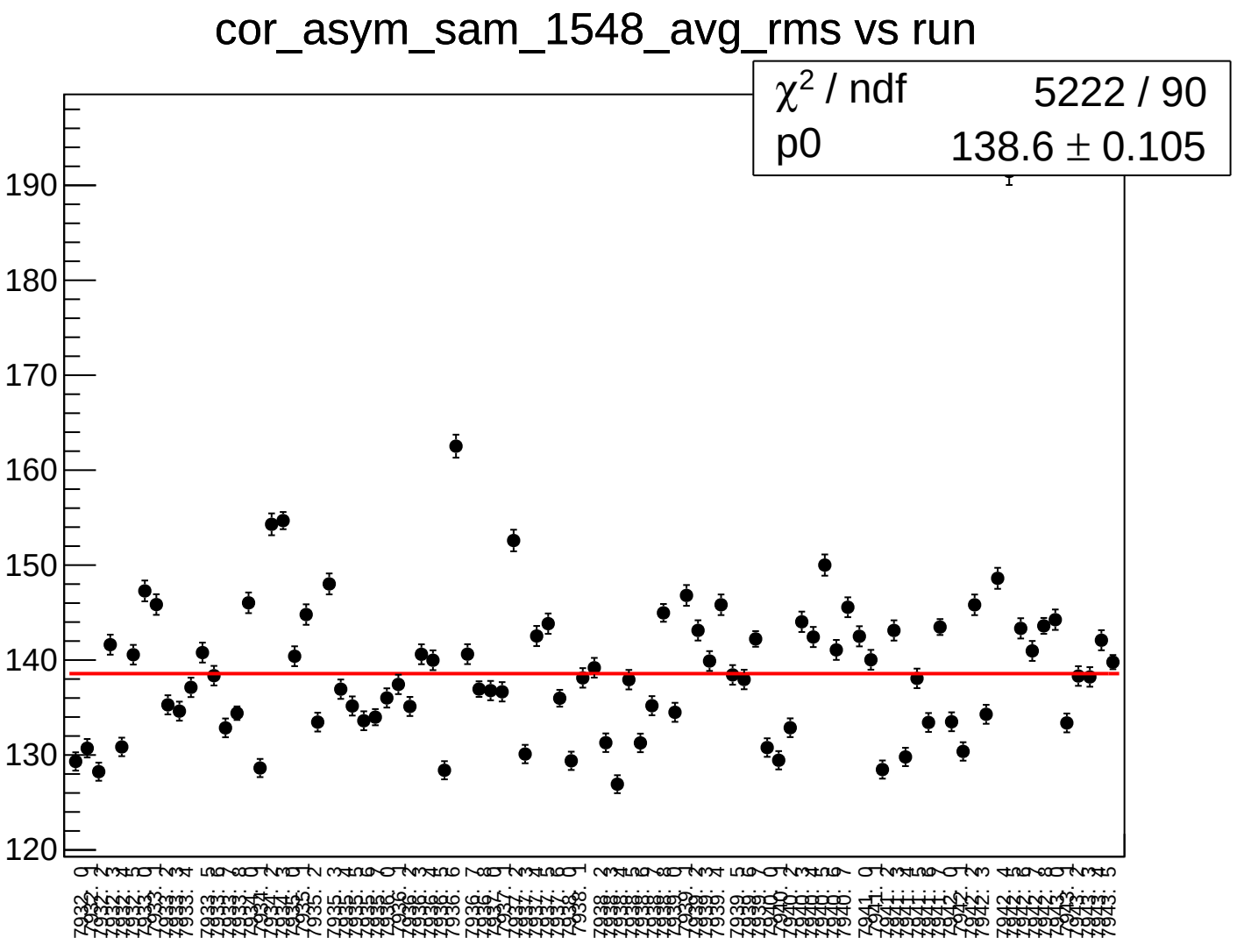

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 102.5 / 90
p0 −617.1± 1618
pull
Entries 91
Mean 99.83
Std Dev 41.09

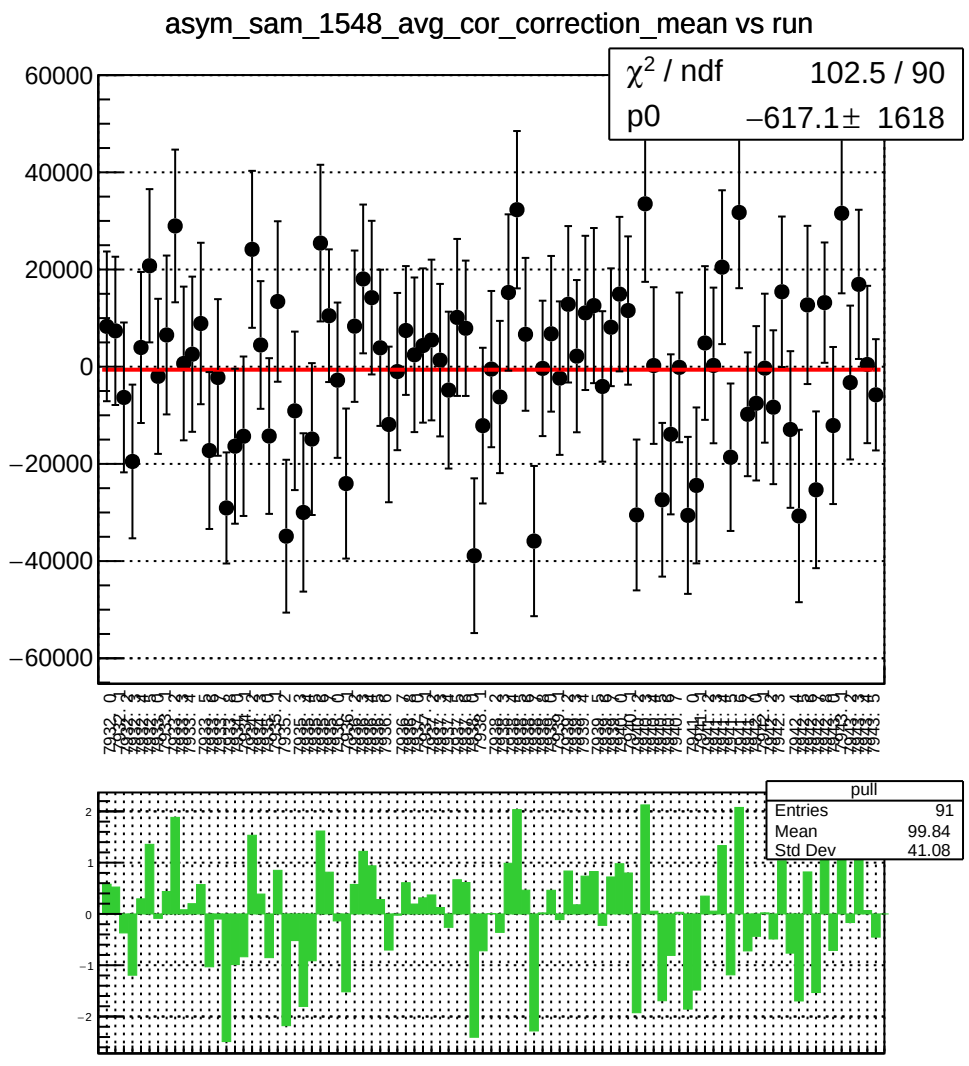

pull1D
Entries 91
Mean 0.002671
Std Dev 1.062

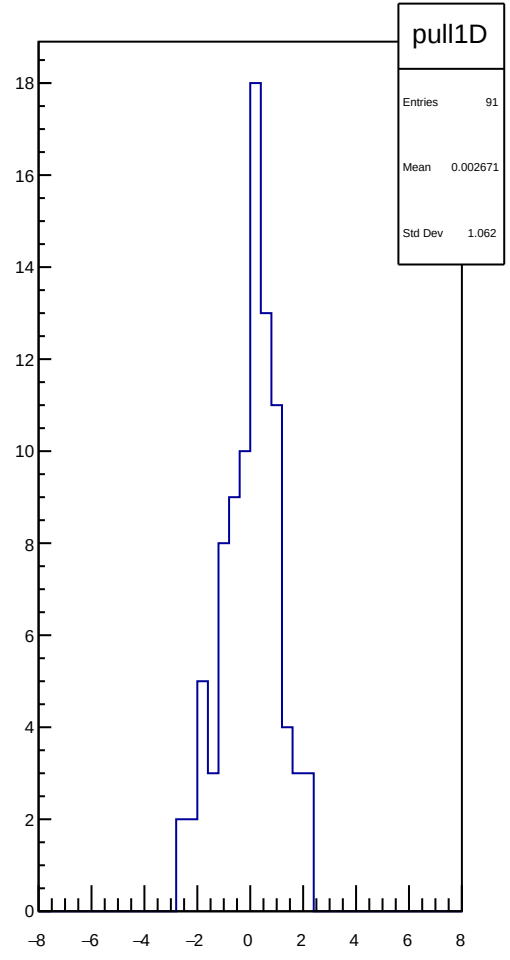

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 928.9 / 90
p0 1512 ± 1.144
1700
1650
1600
1550
1500
1450

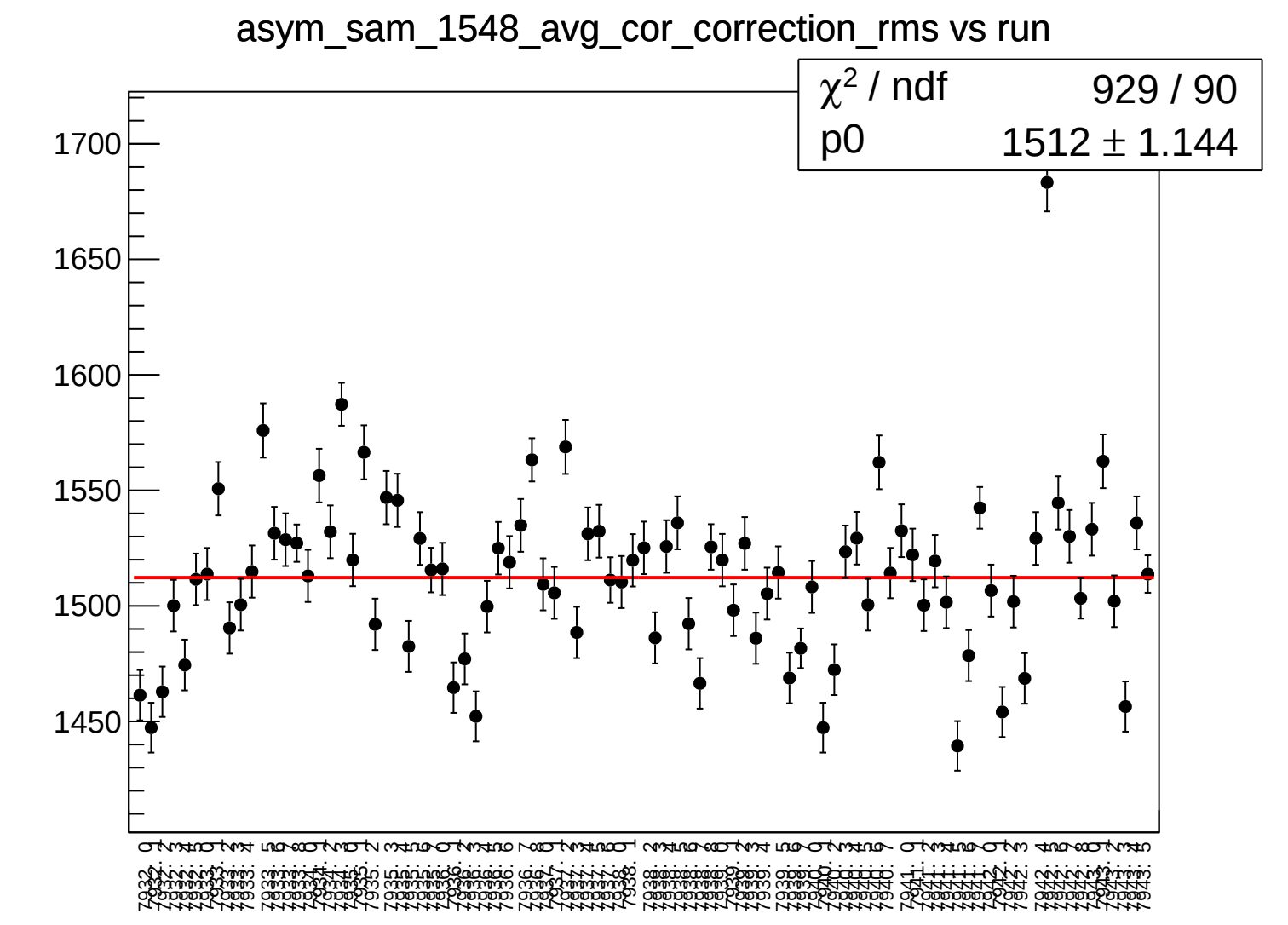

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 120 / 90
p0 368.2 ± 148.4
pull
Entries 91
Mean 105.1
Std Dev 0

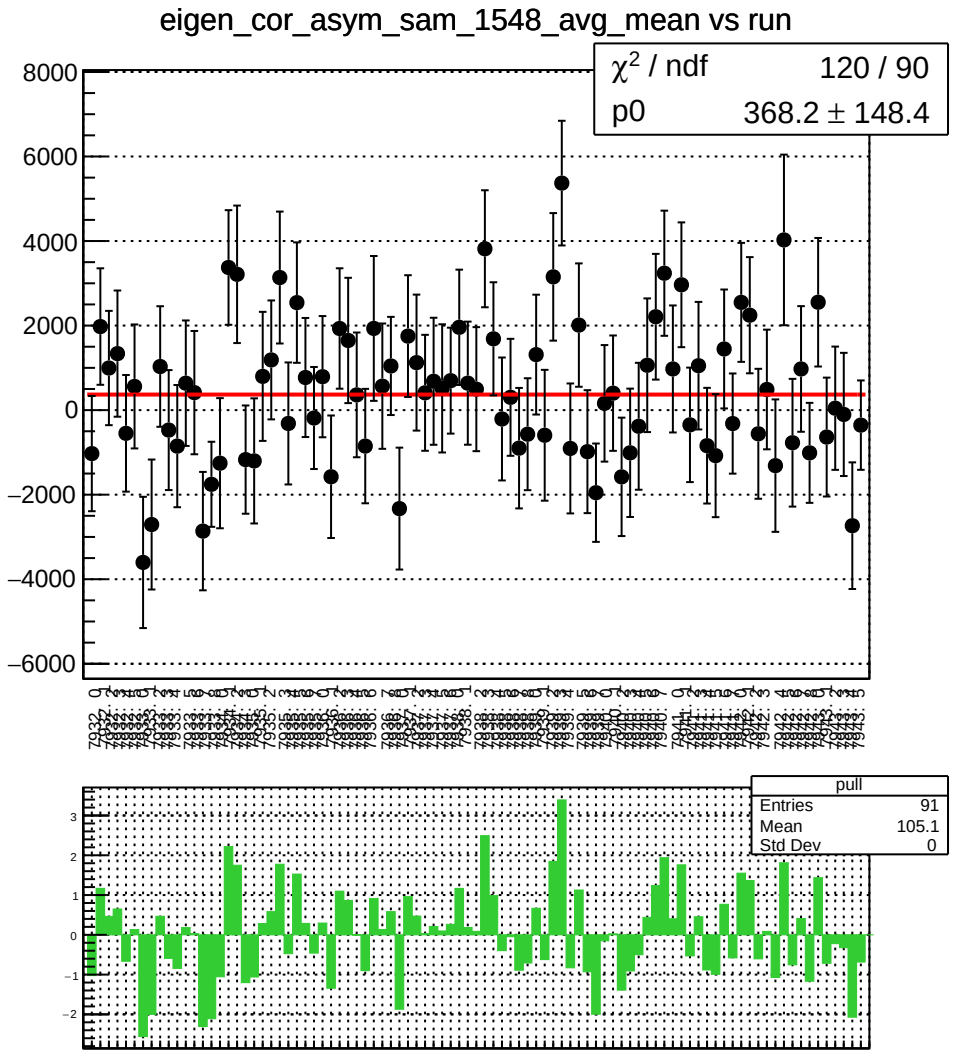

pull1D
Entries 91
Mean 0.02879
Std Dev 1.148

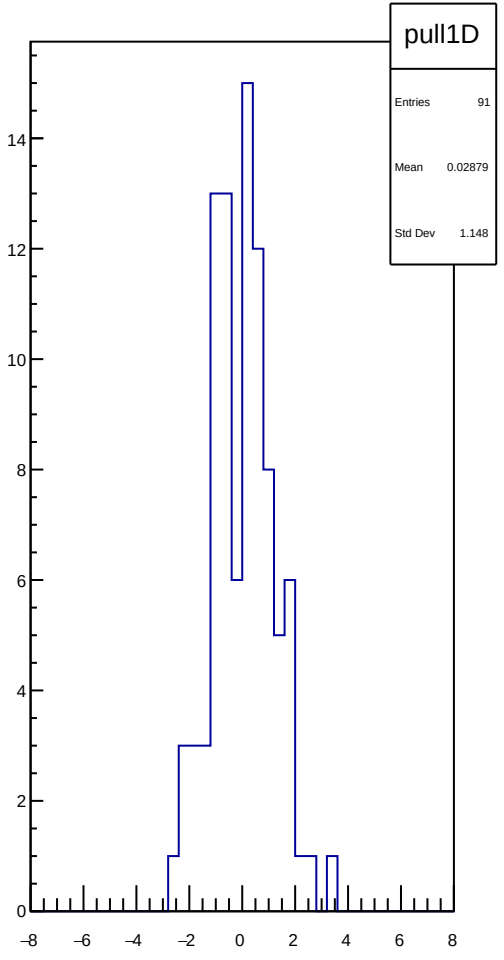

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5222 / 90
p0 138.6 ± 0.105
190
180
170
160
150
140
130
120

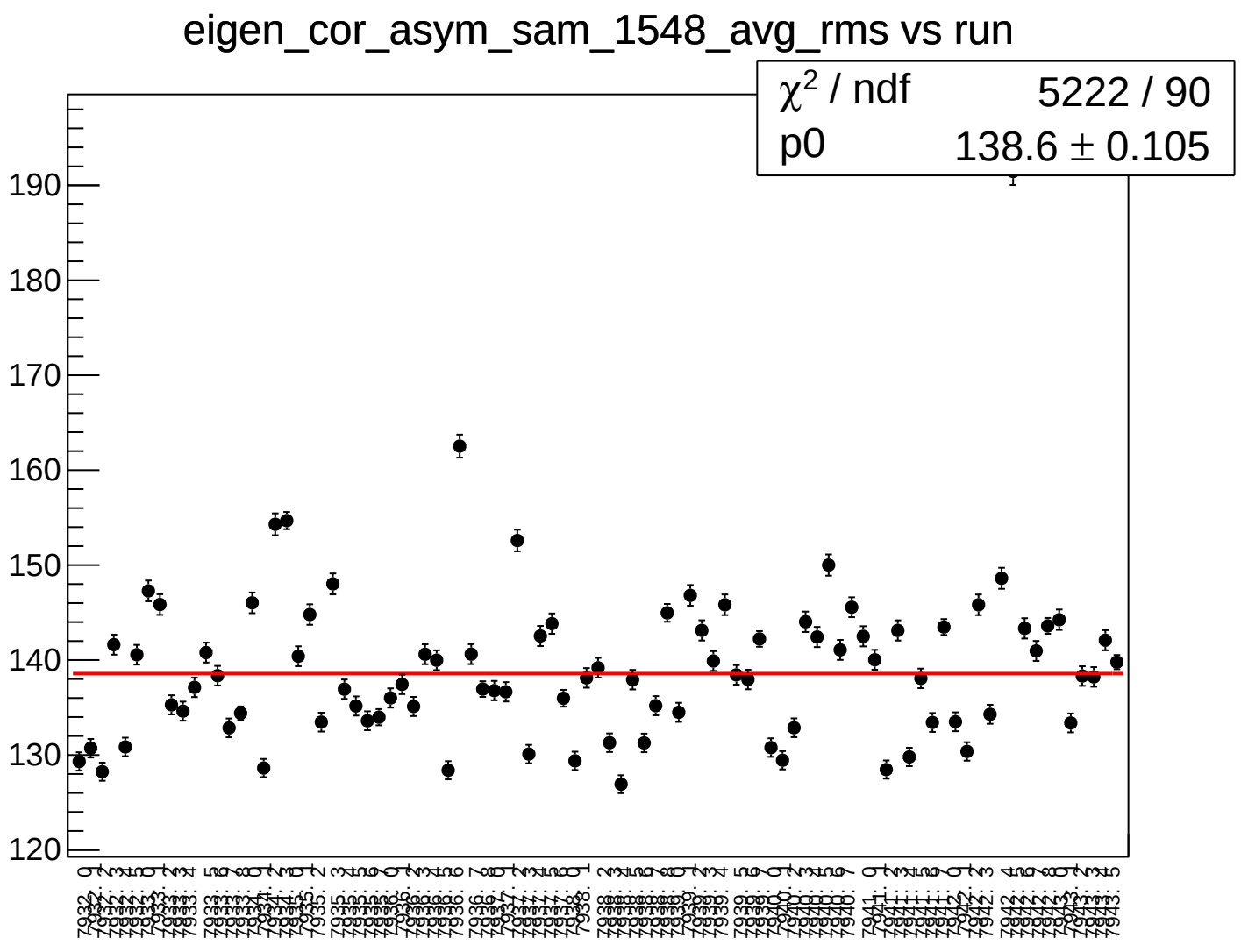

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 102.5 / 90
p0 −617.1± 1618
pull
Entries 91
Mean 99.84
Std Dev 41.08

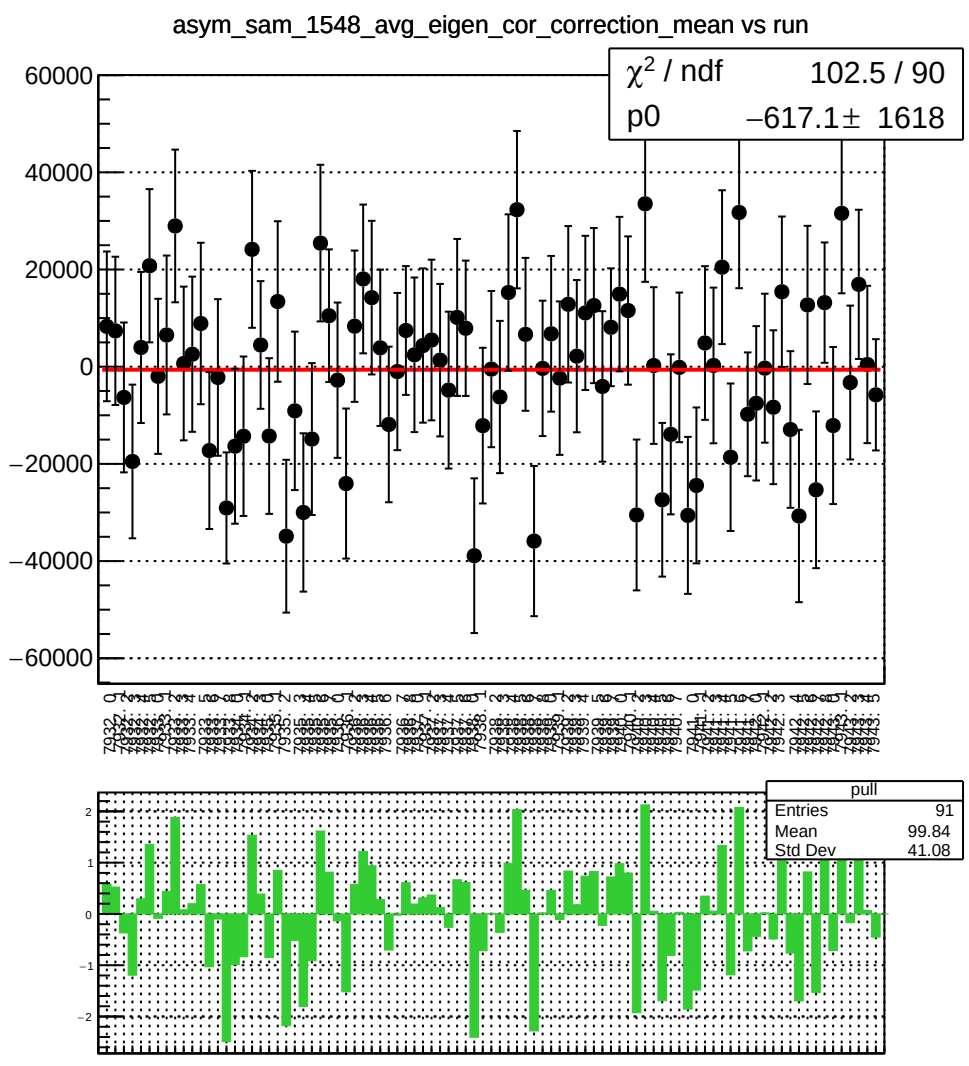

pull1D
Entries 91
Mean 0.002671
Std Dev 1.062

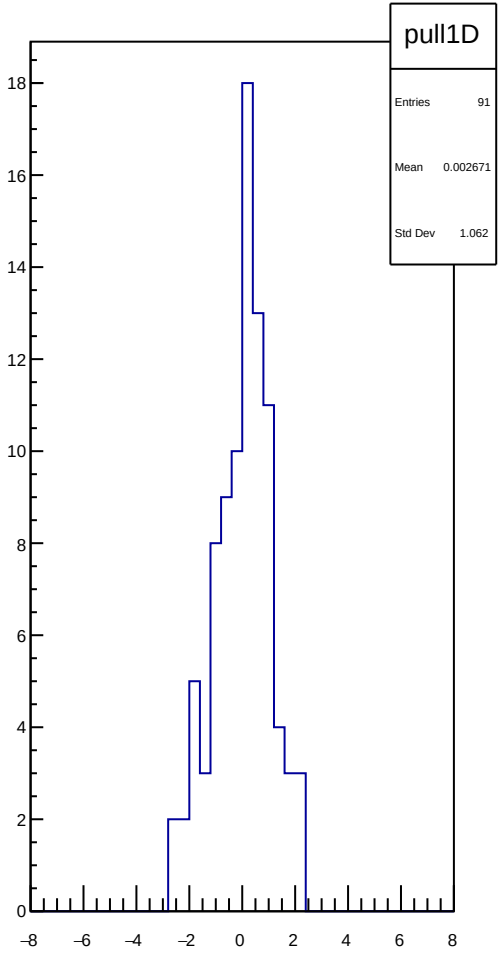

asym_sam_1548_avg_cor_correction_rms vs run
χ^2 / ndf 929 / 90
p0 1512 ± 1.144
1700
1650
1600
1550
1500
1450

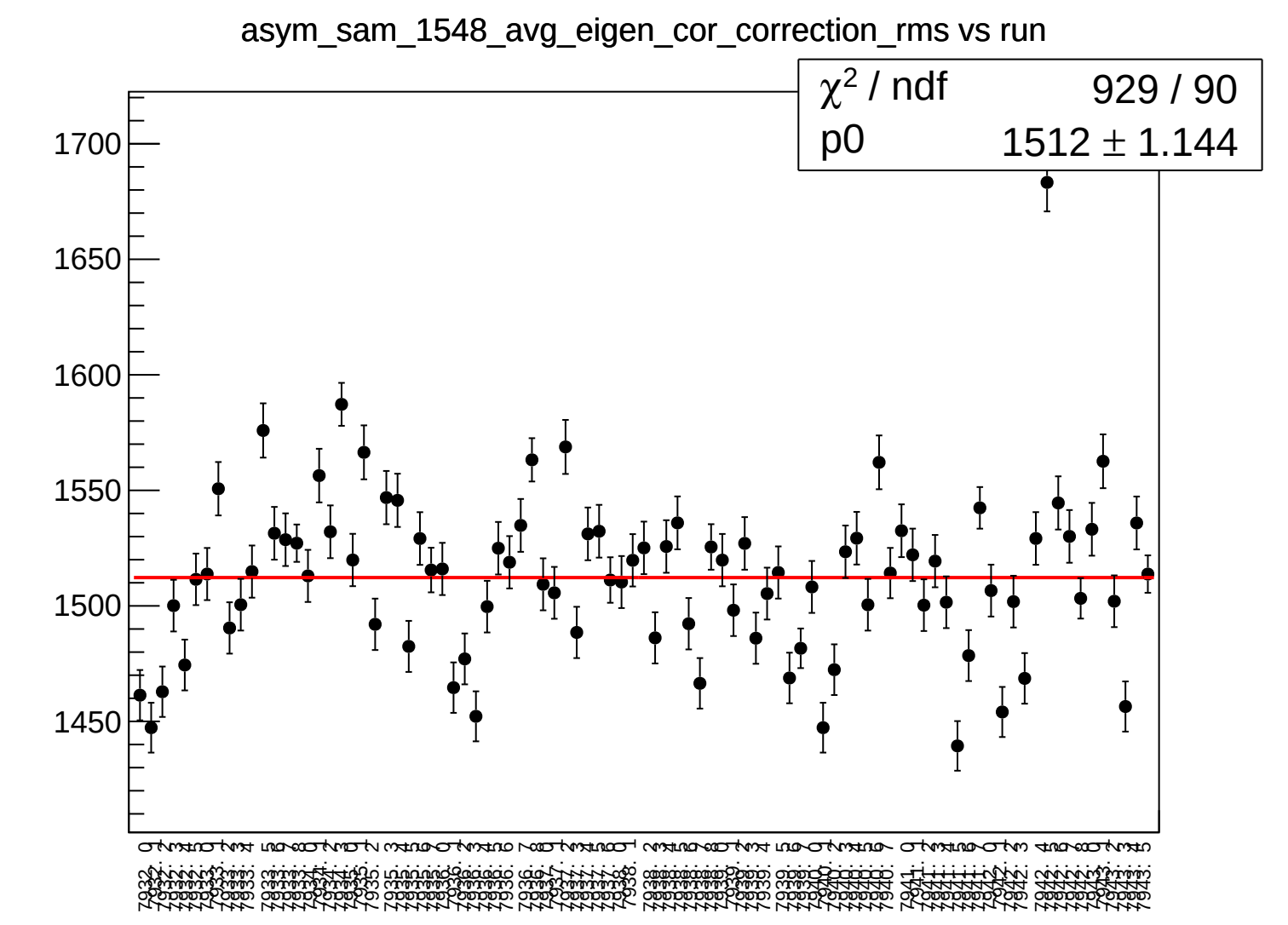

eigen_cor_asym_sam_1548_avg_mean vs run
χ^2 / ndf 120 / 90
p0 368.2 ± 148.4
pull
Entries 91
Mean 105.1
Std Dev 0

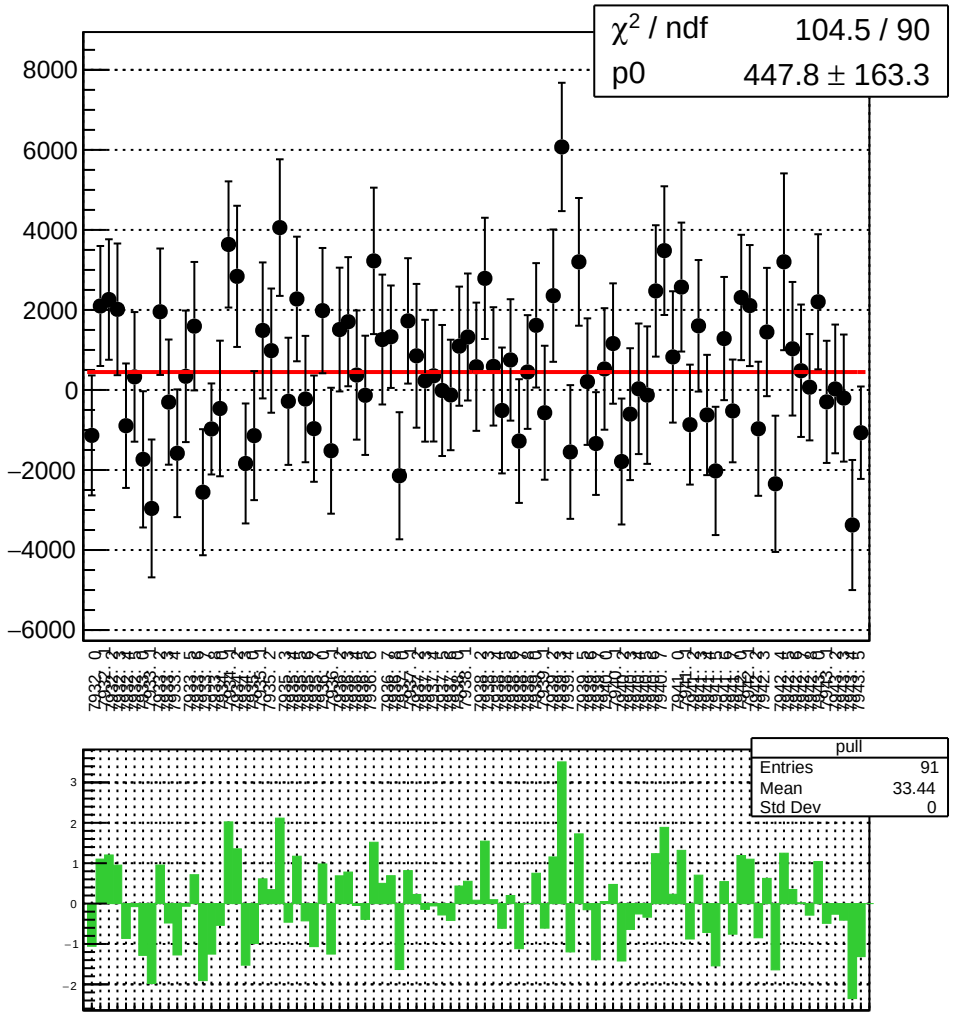

pull1D
Entries 91
Mean 0.02879
Std Dev 1.148

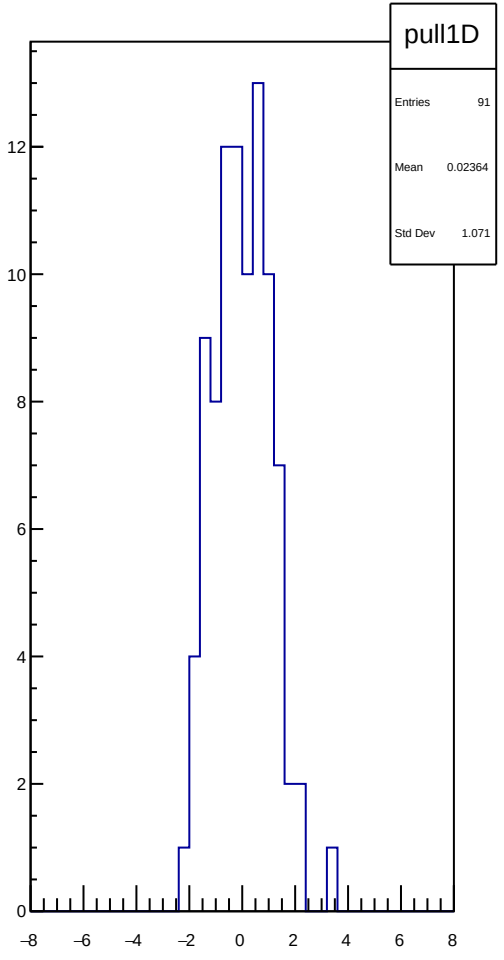

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5222 / 90
p0 138.6 ± 0.105
190
180
170
160
150
140
130
120

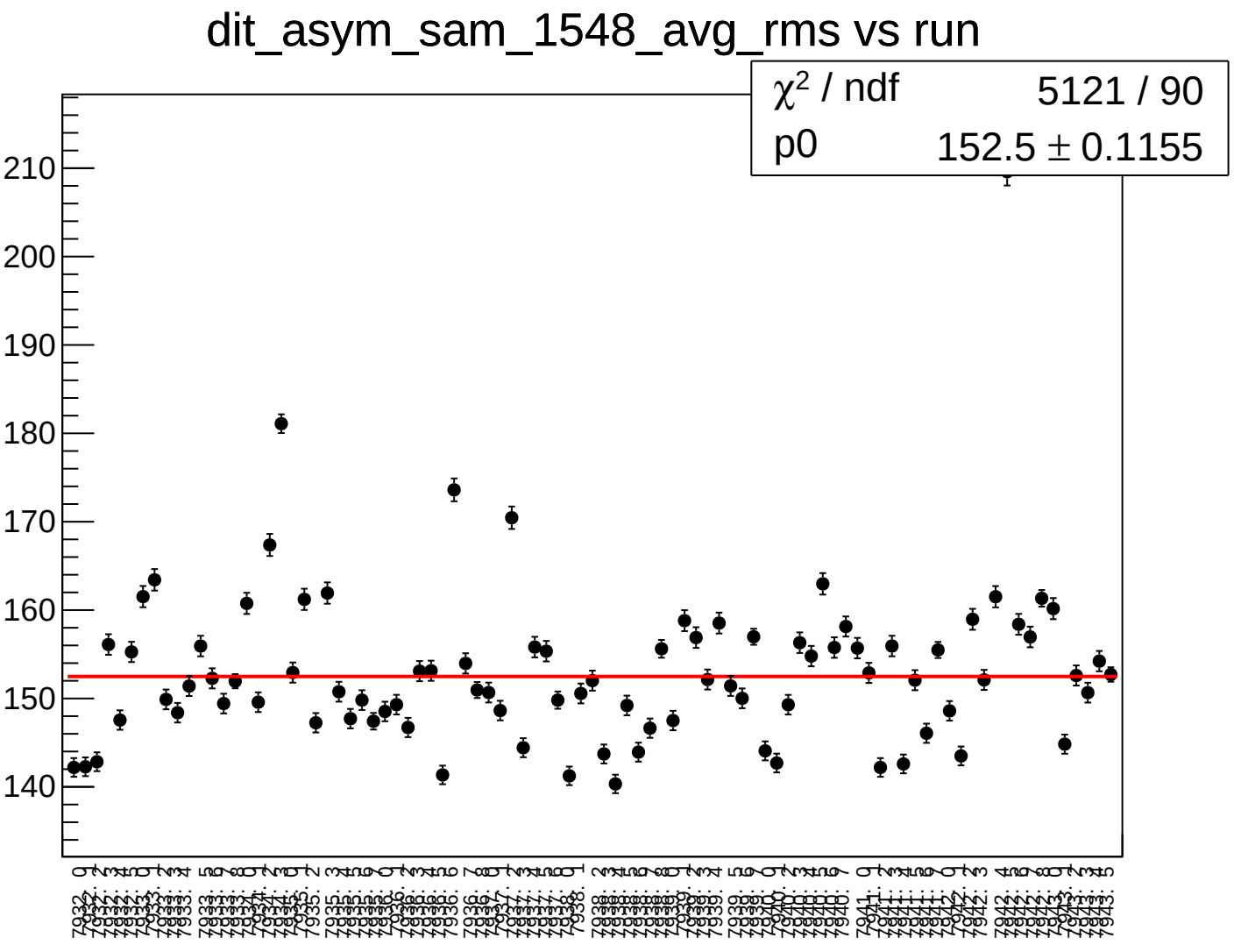

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 90
p0 −617.1± 1618
pull
Entries 91
Mean 99.84
Std Dev 41.08

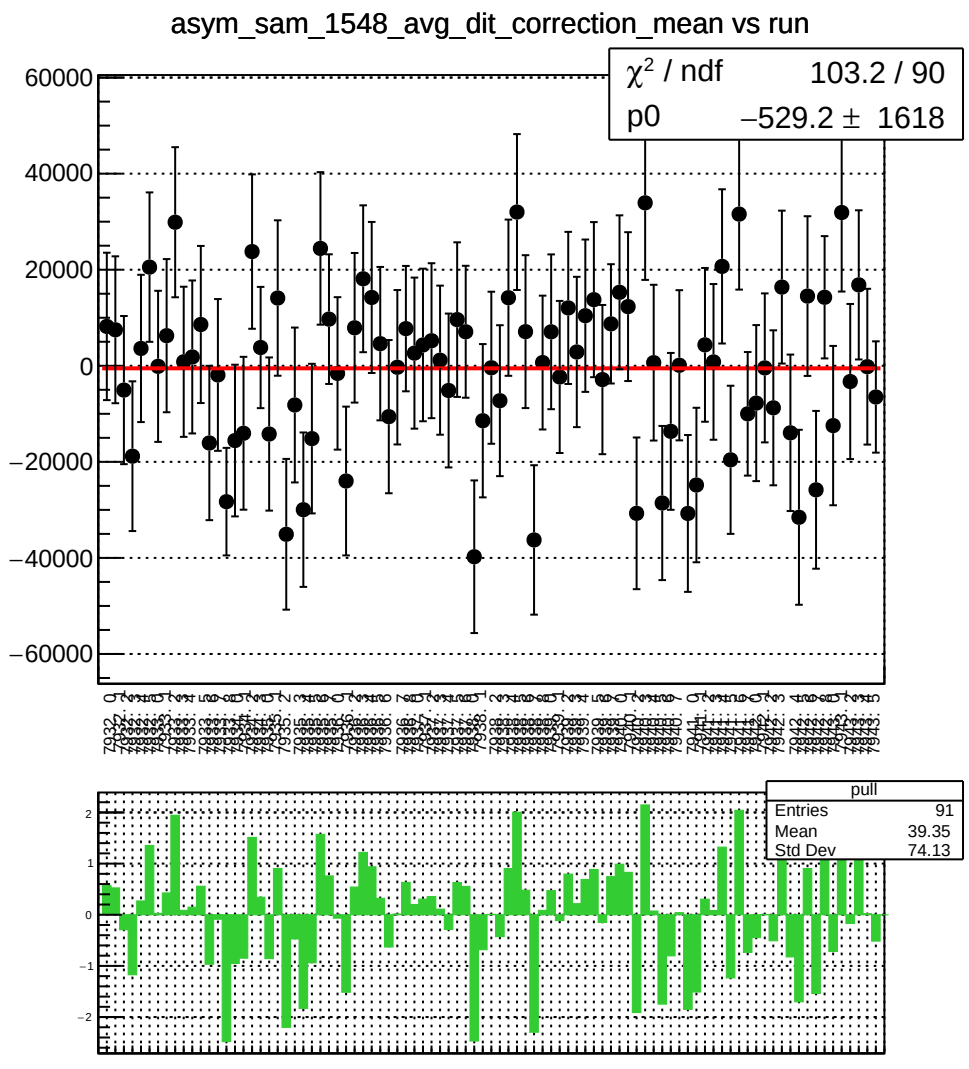

pull1D
Entries 91
Mean 0.002671
Std Dev 1.062

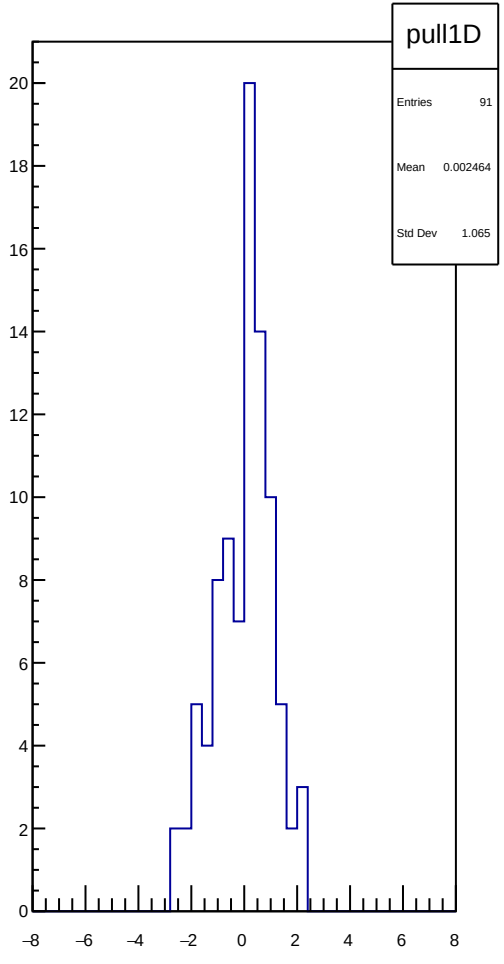

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 929 / 90
p0 1512 ± 1.144
1700
1650
1600
1550
1500
1450

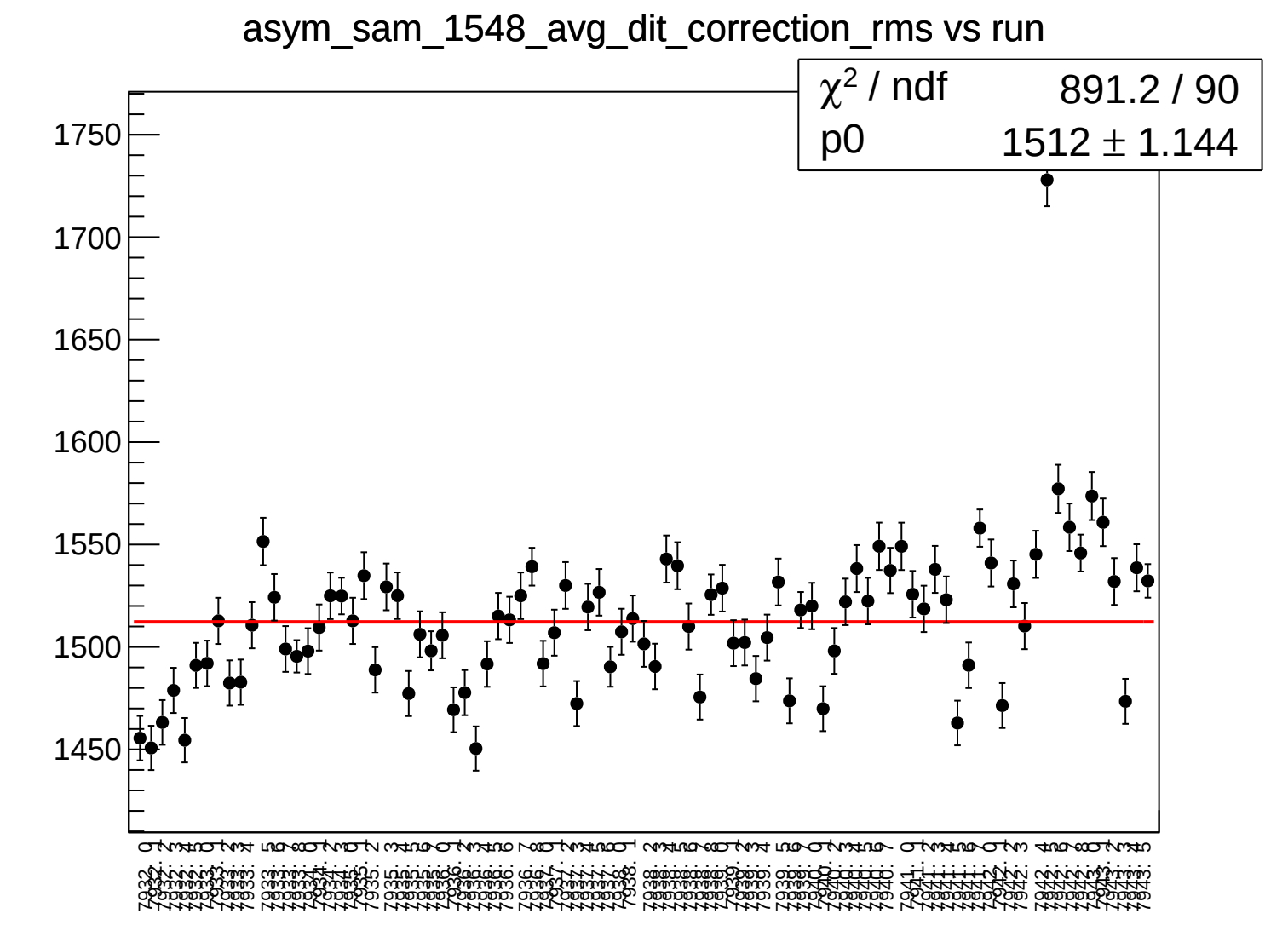

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 104.5 / 90
p0 447.8 ± 163.3
pull
Entries 91
Mean 33.44
Std Dev 0

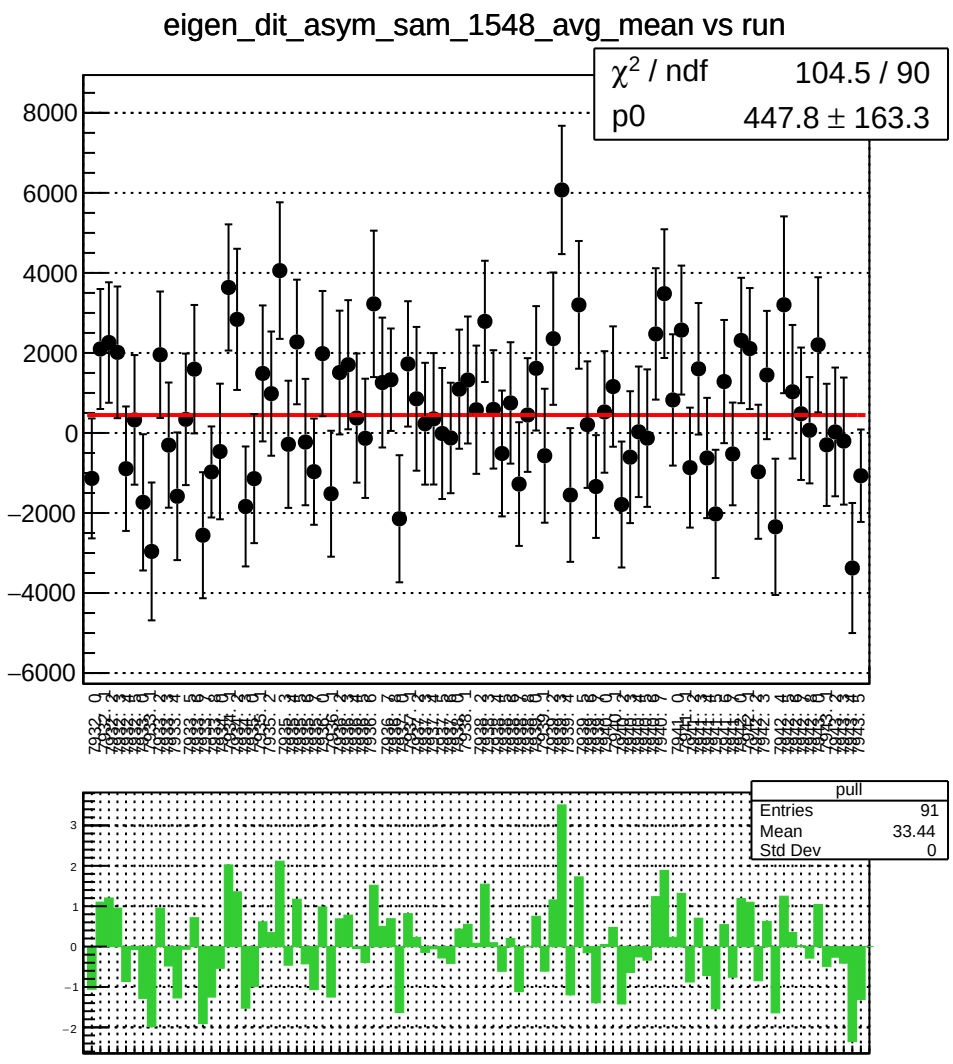

pull1D
Entries 91
Mean 0.02364
Std Dev 1.071

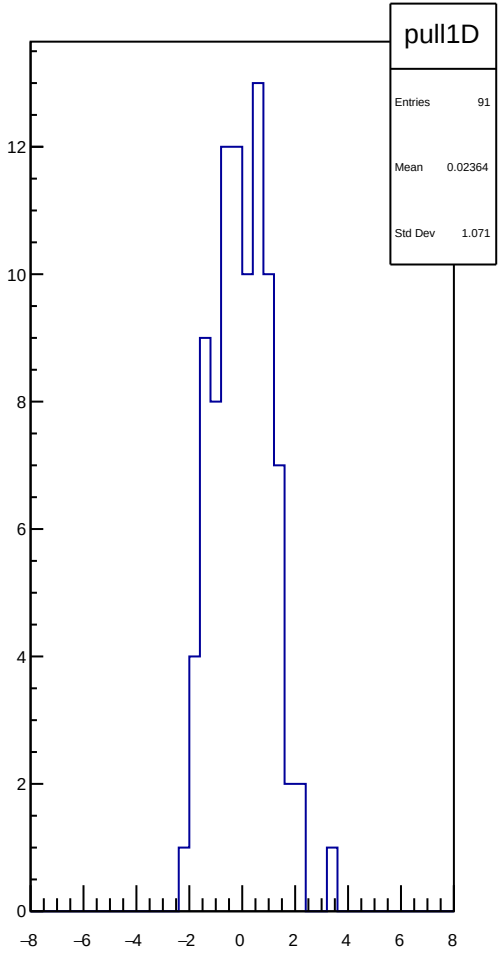

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5121 / 90
p0 152.5 ± 0.1155
210
200
190
180
170
160
150
140

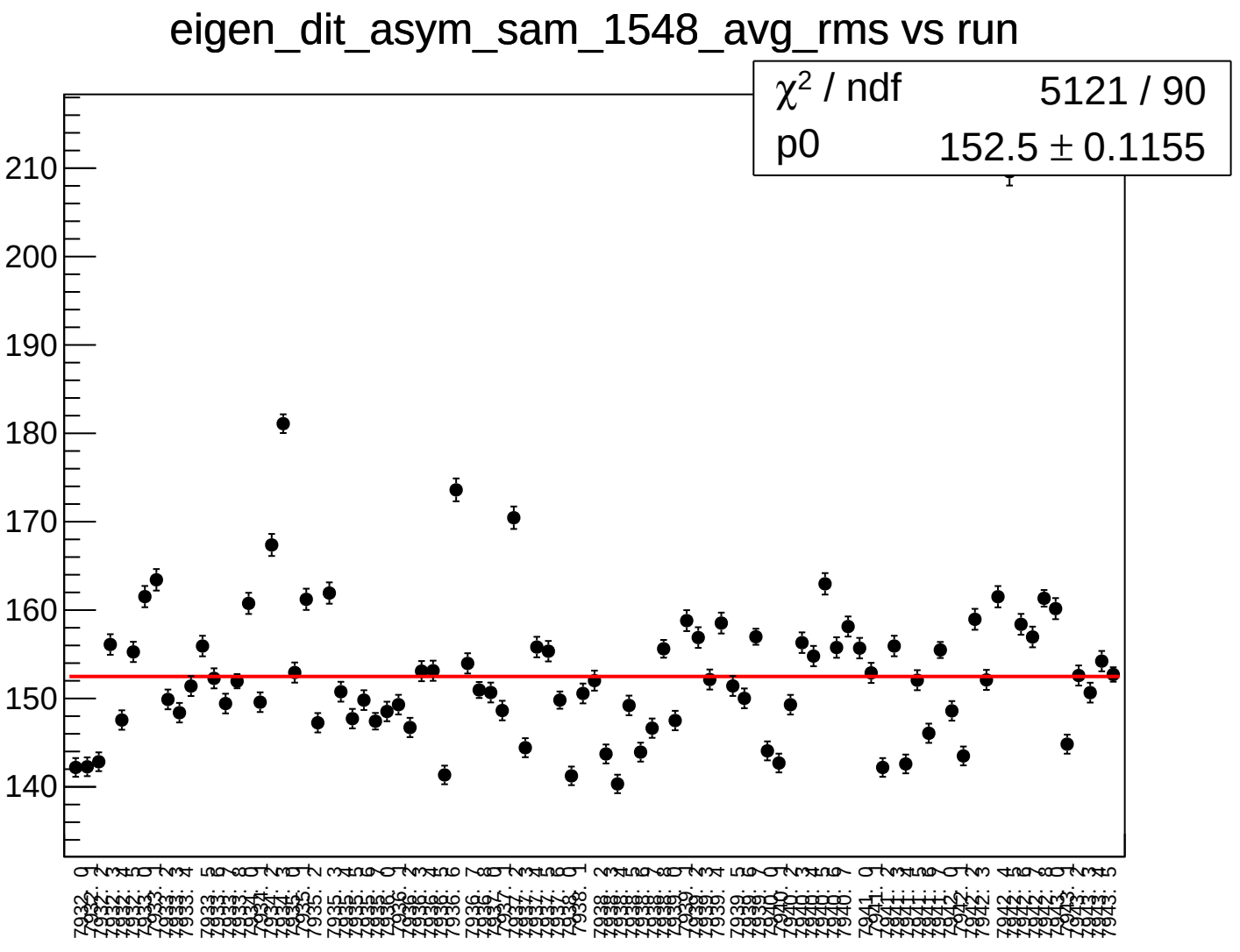

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 103.2 / 90
p0 −529.2 ± 1618
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 39.35
Std Dev 74.13
2
1
0
−1
−2

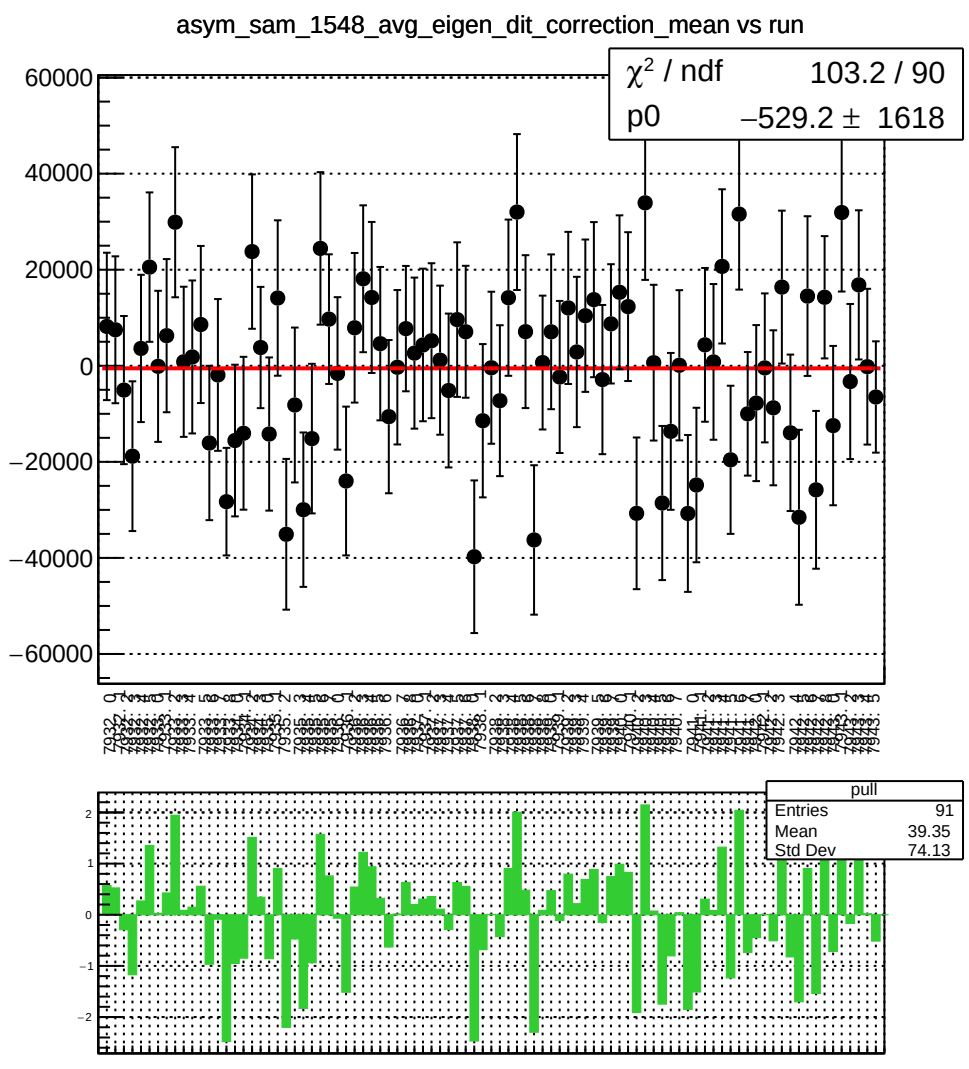

pull1D
Entries 91
Mean 0.002464
Std Dev 1.065
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

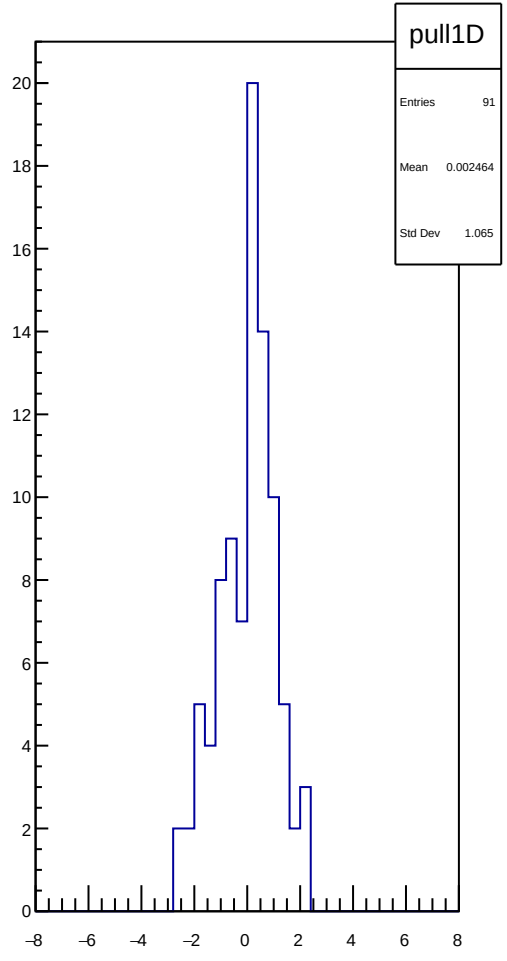

asym_sam_1548_avg_dit_correction_rms vs run
χ^2 / ndf 891.2 / 90
p0 1512 ± 1.144
1750
1700
1650
1600
1550
1500
1450

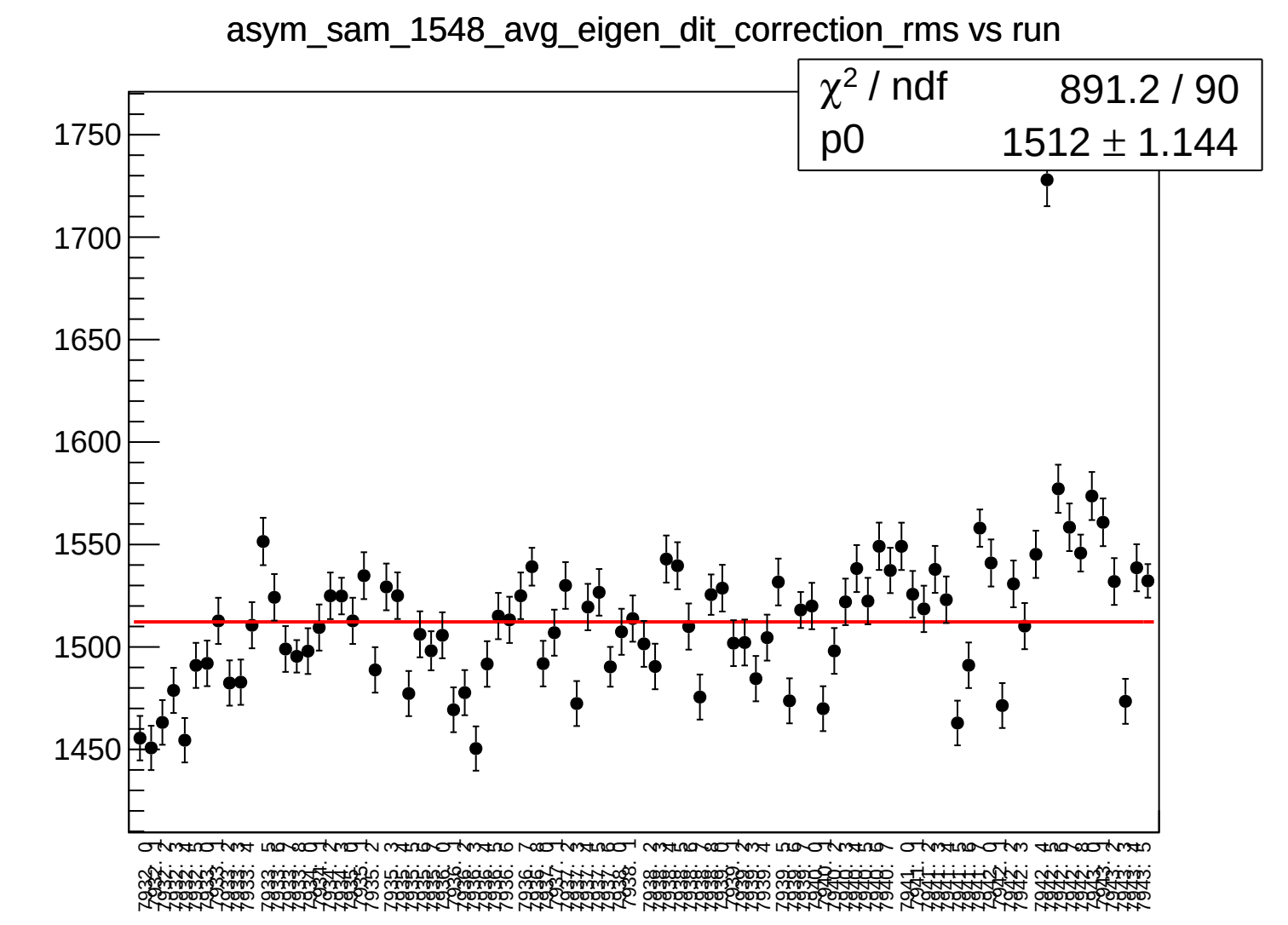

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 104.5 / 90
p0 447.8 ± 163.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 33.44
Std Dev 0
3
2
1
0
−1
−2

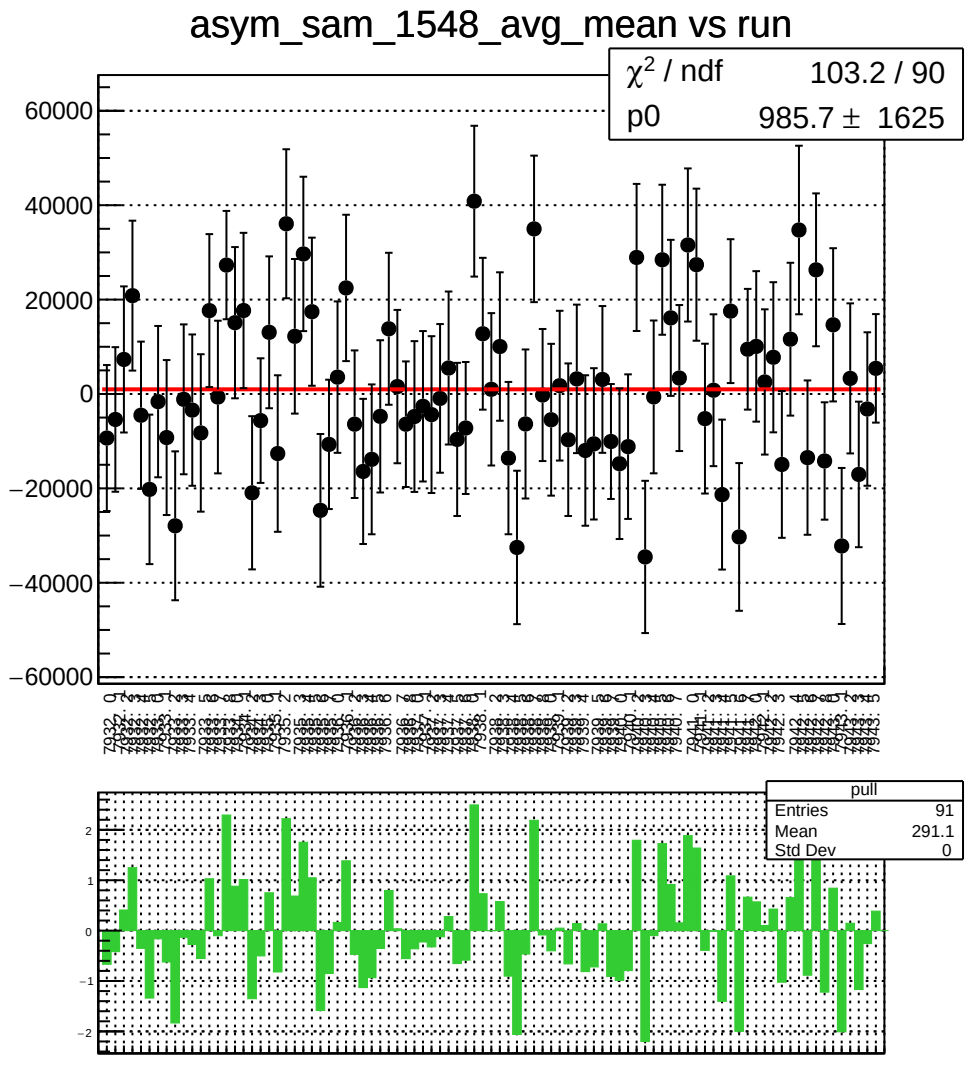

pull1D
Entries 91
Mean 0.02364
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

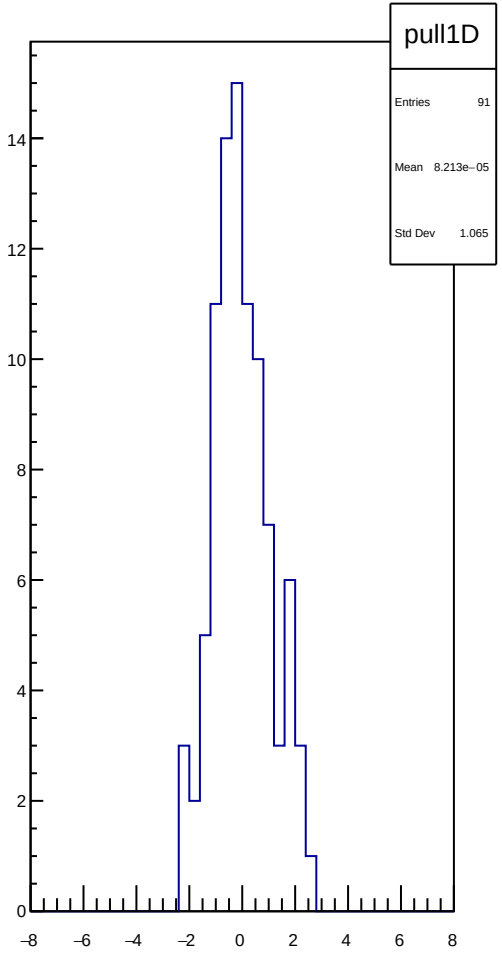

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5121 / 90
p0 152.5 ± 0.1155
210
200
190
180
170
160
150
140

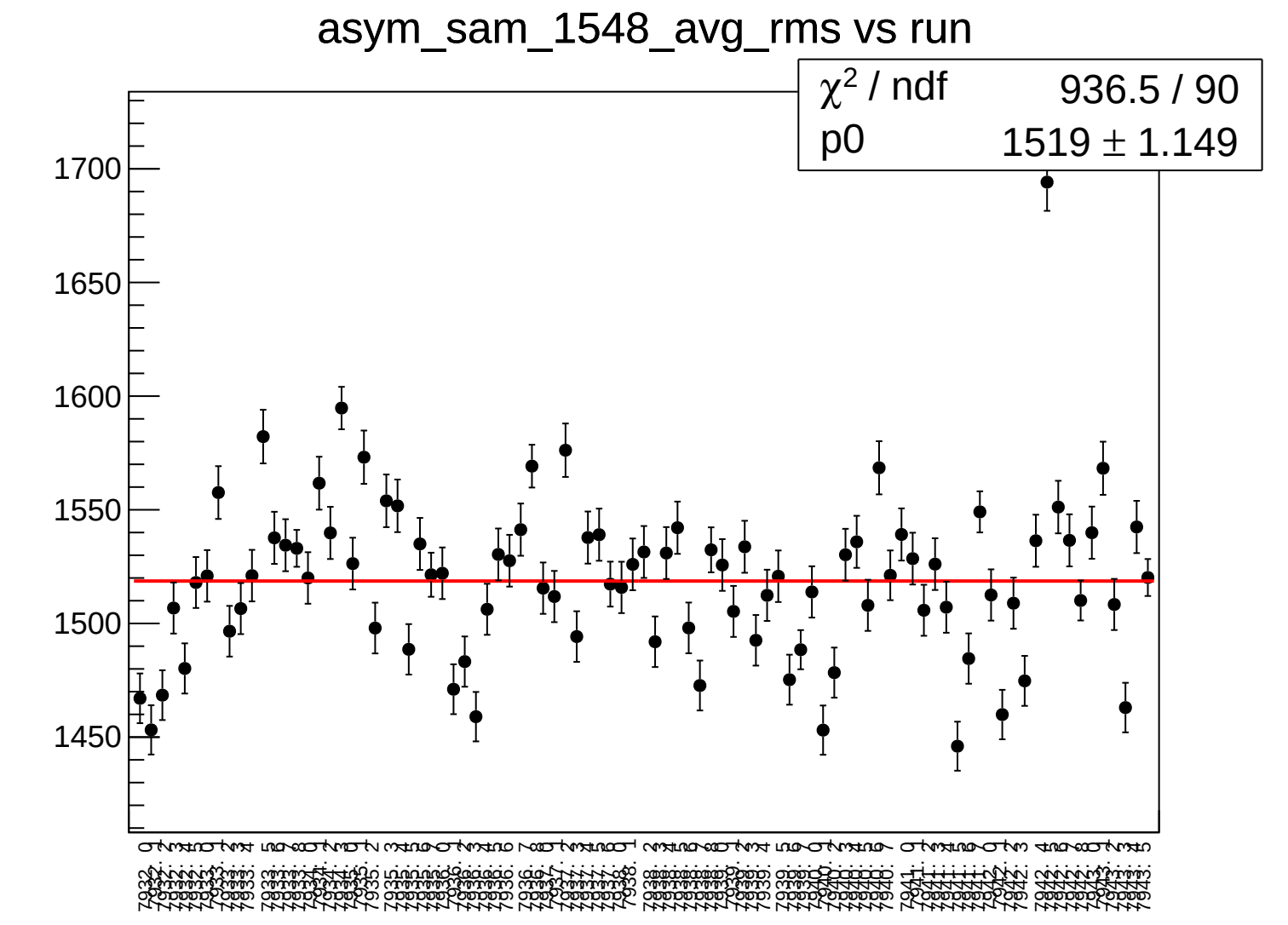

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.2 / 90
p0 −529.2 ± 1618
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 39.35
Std Dev 74.13
2
1
0
−1
−2

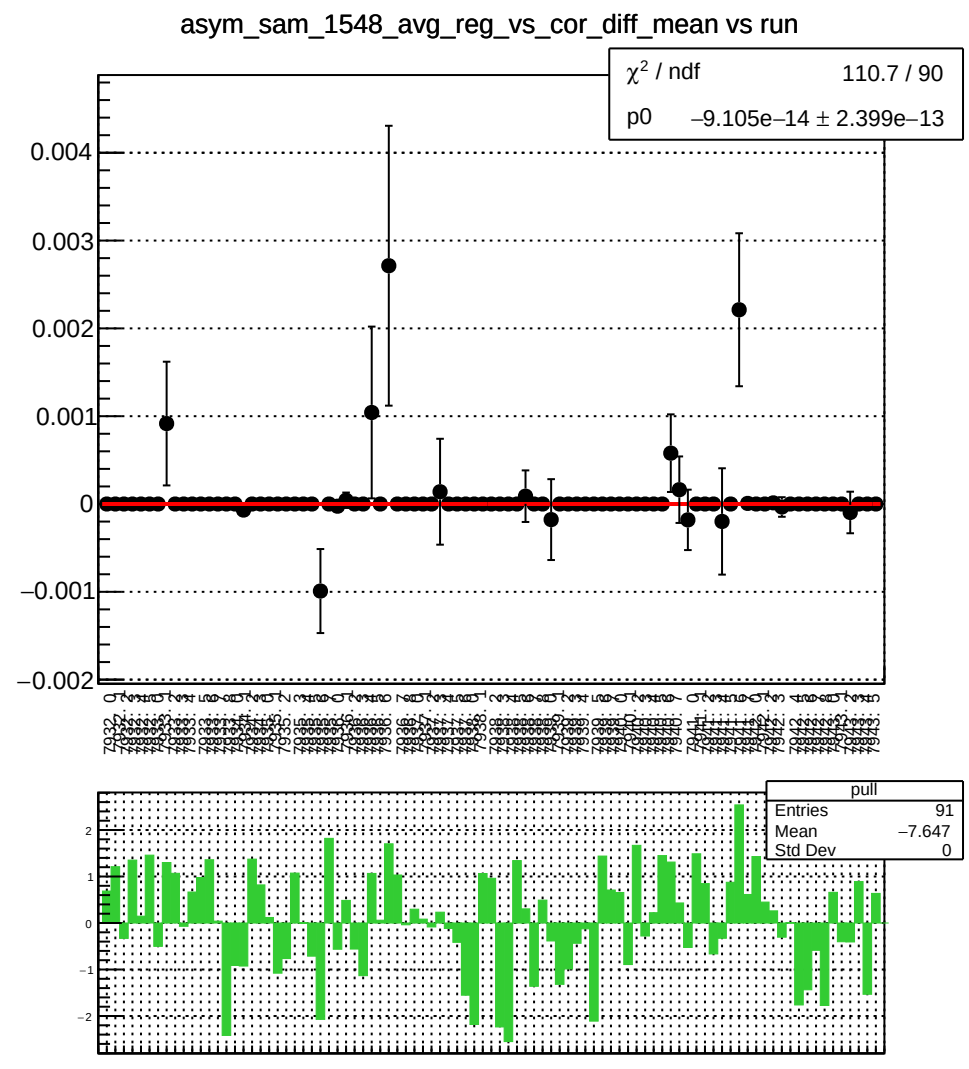

pull1D
Entries 91
Mean 0.002464
Std Dev 1.065
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

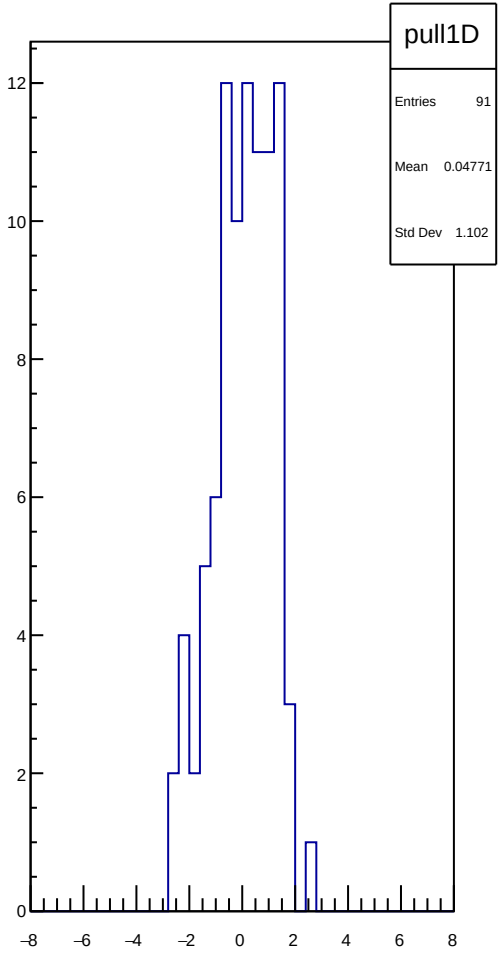

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 891.2 / 90
p0 1512 ± 1.144
1750
1700
1650
1600
1550
1500
1450

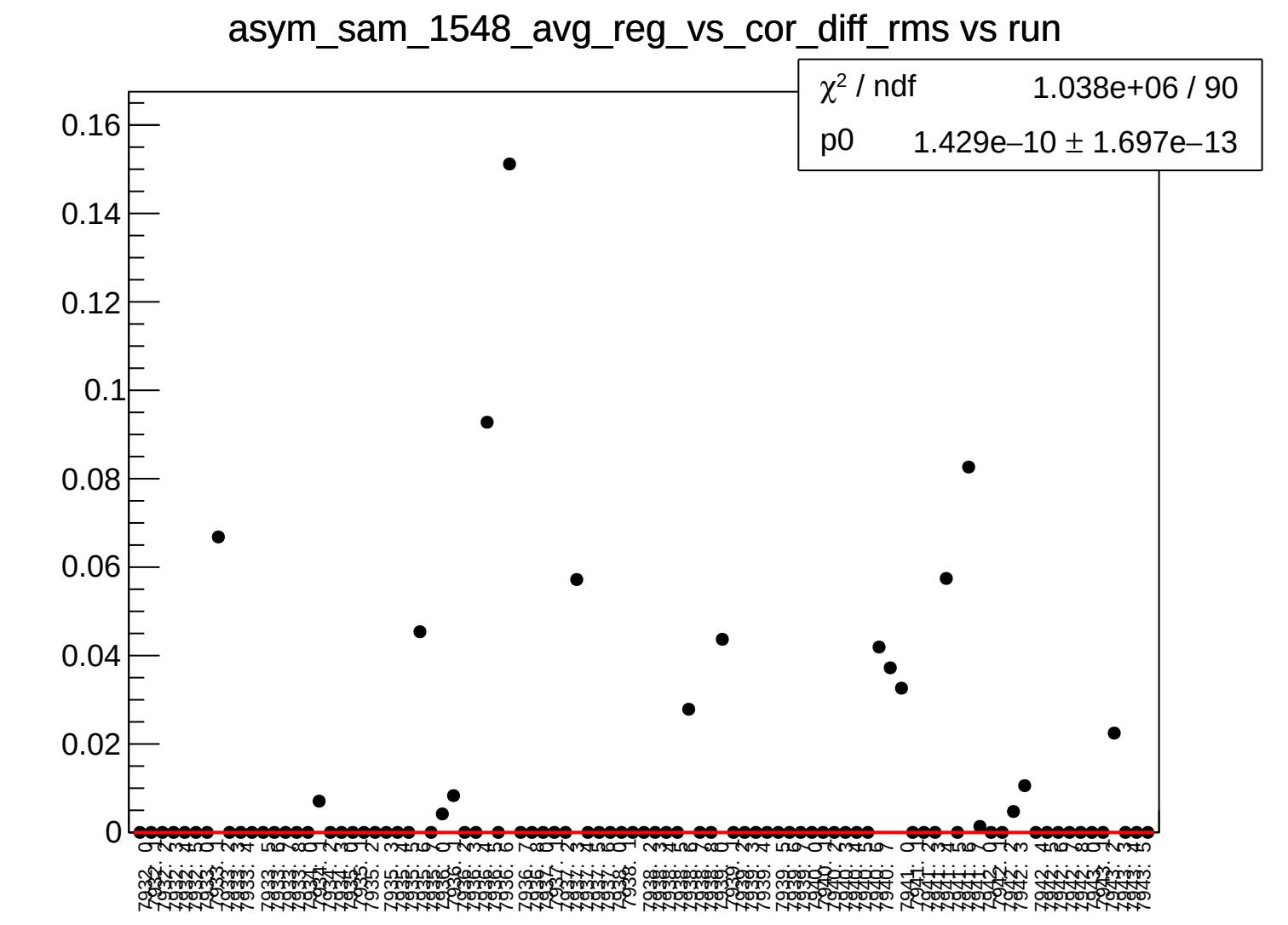

asym_sam_1548_avg_mean vs run
χ² / ndf 103.2 / 90
p0 985.7 ± 1625
pull
Entries 91
Mean 291.1
Std Dev 0

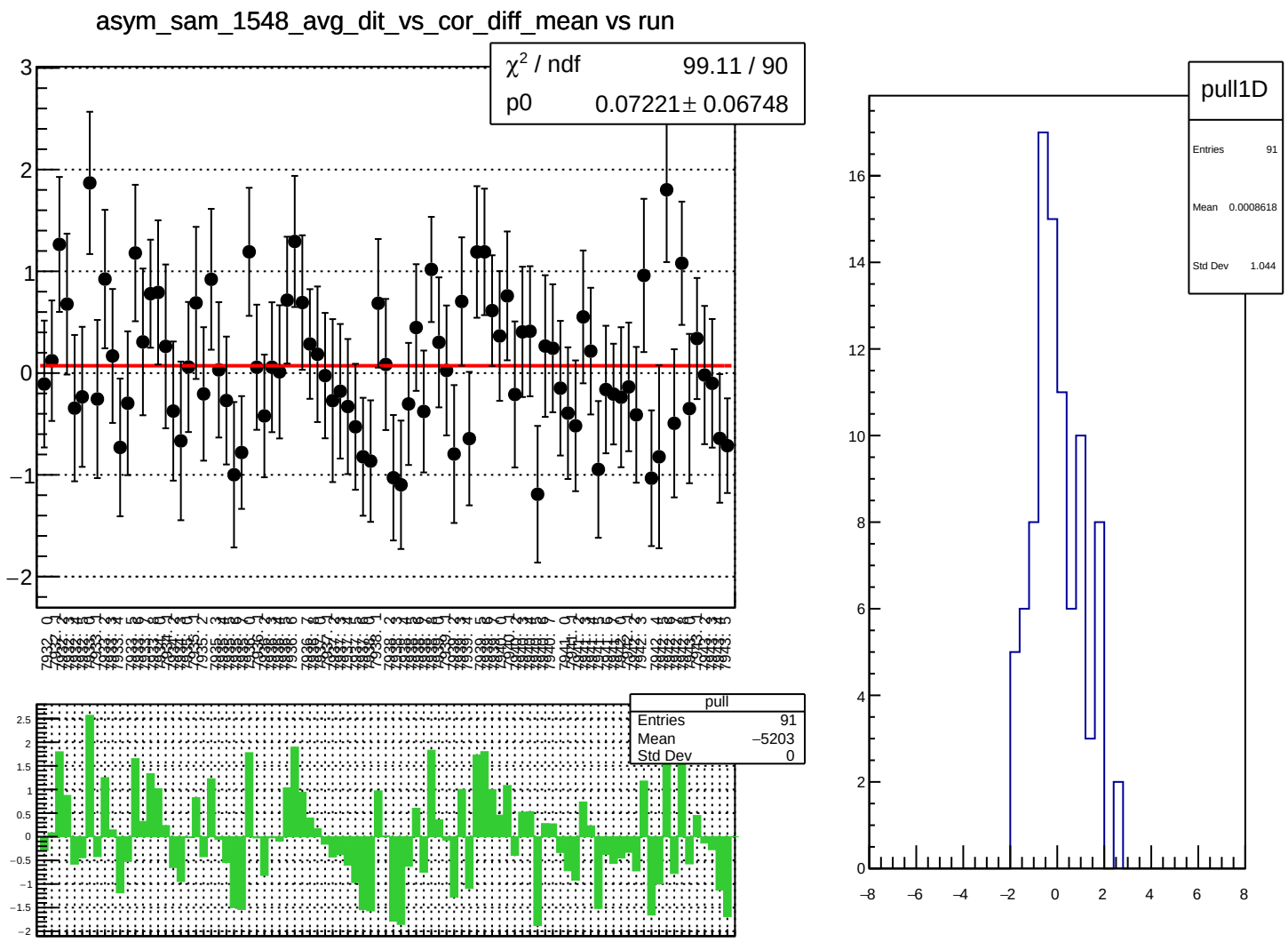

pull1D
Entries 91
Mean 8.213e−05
Std Dev 1.065

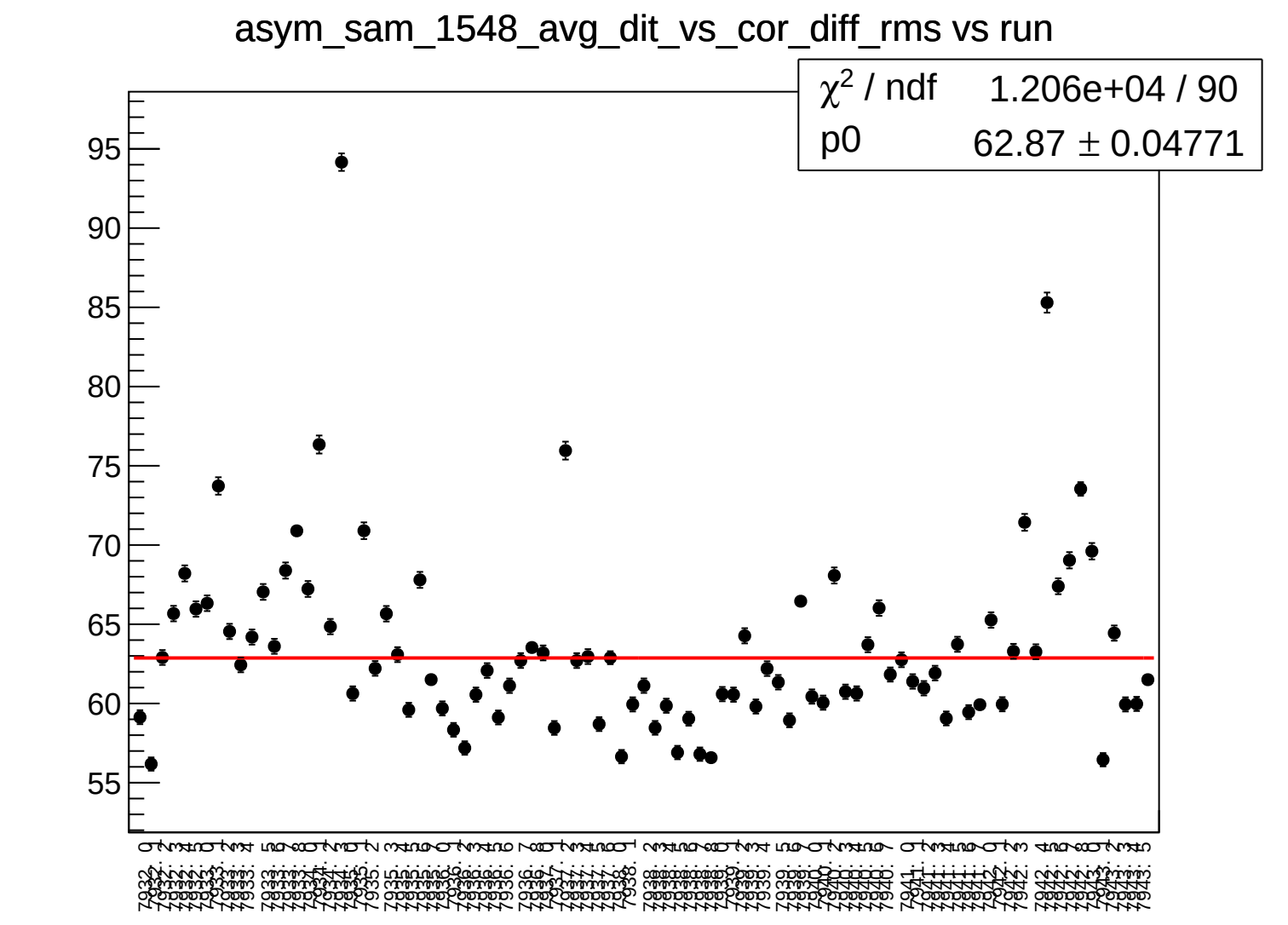

asym_sam_1548_avg_rms vs run
χ² / ndf 936.5 / 90
p0 1519 ± 1.149
1700
1650
1600
1550
1500
1450

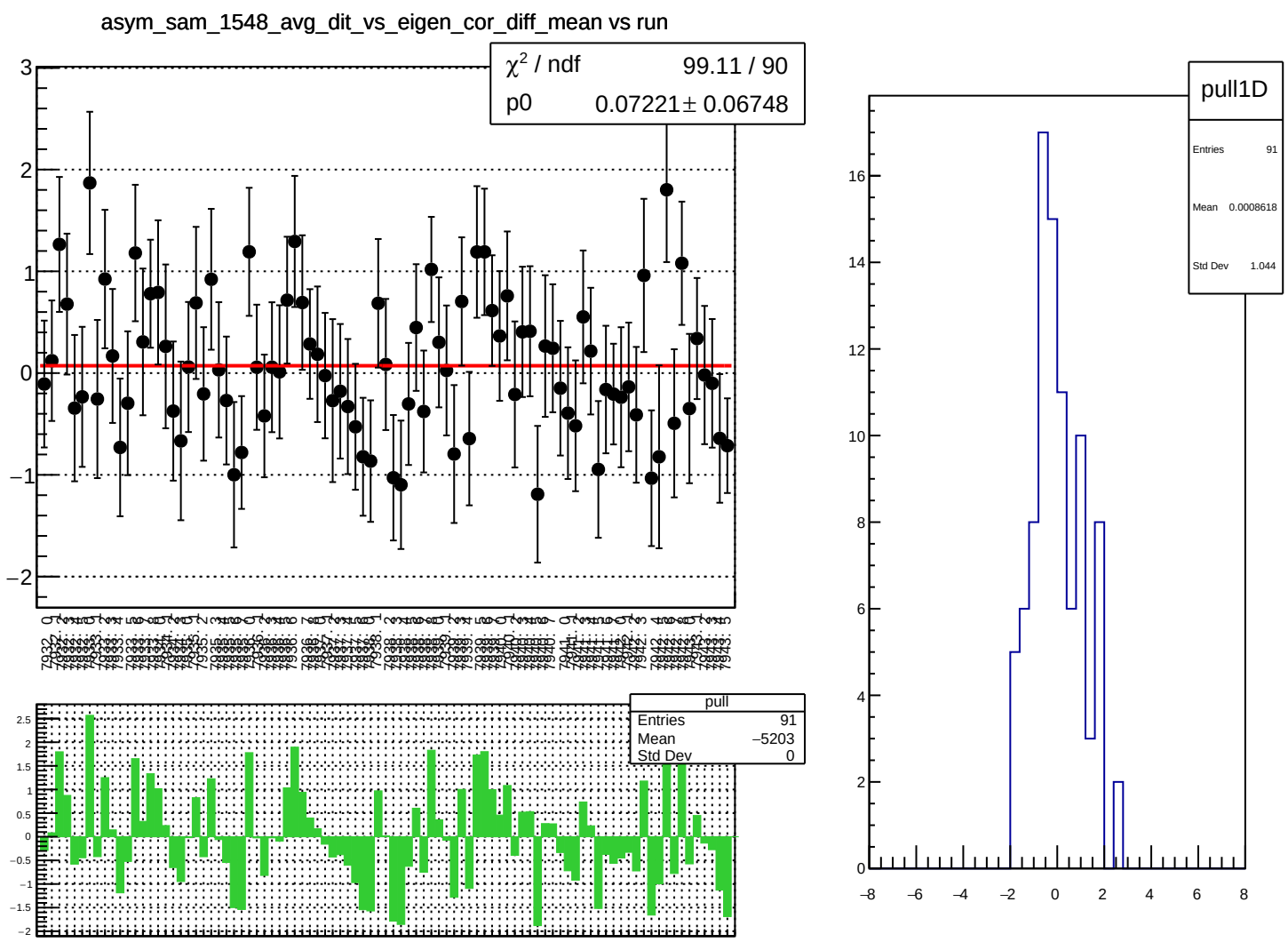

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 90
p0 −9.105e−14 ± 2.399e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean −7.647
Std Dev 0
2
1
0
−1
−2

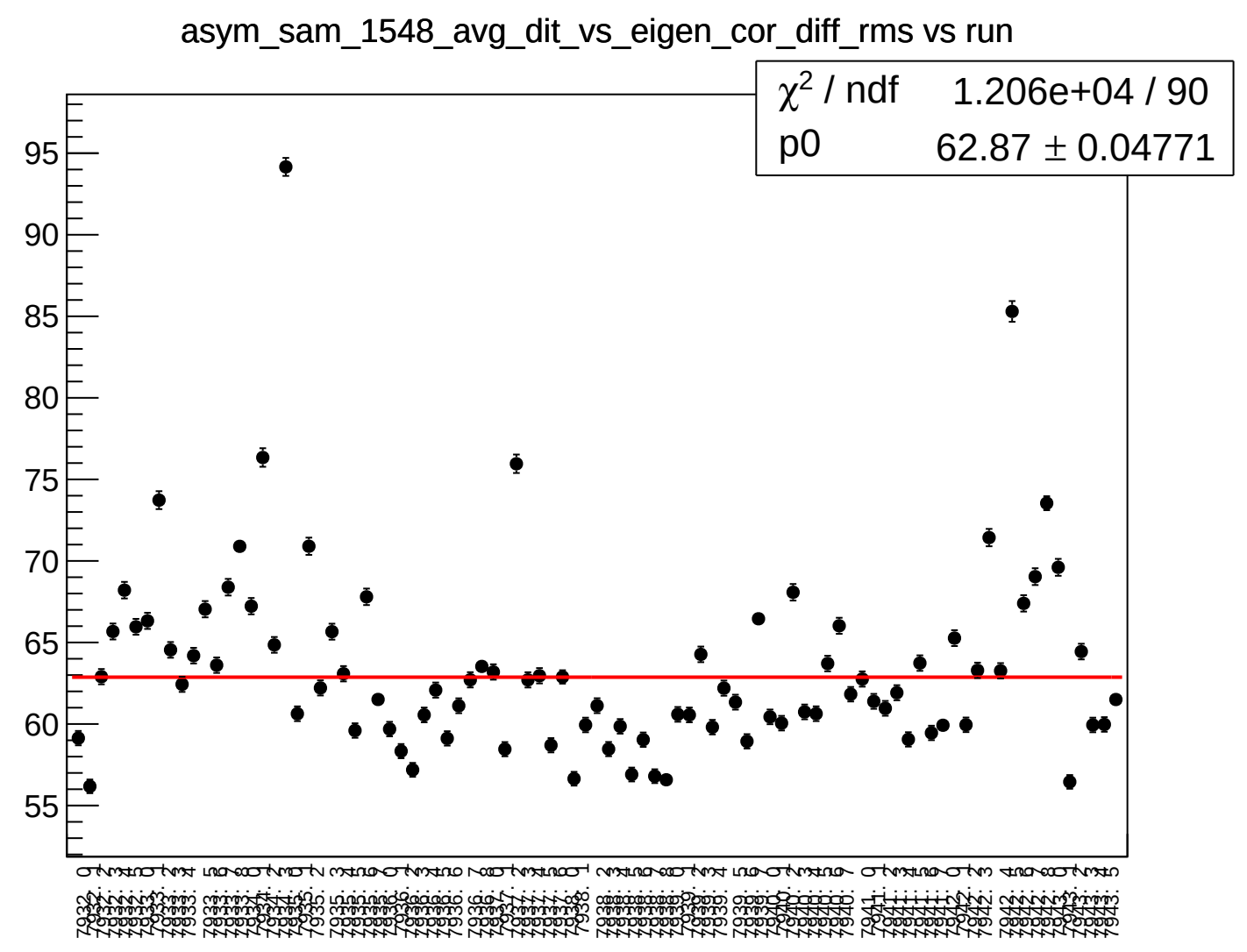

pull1D
Entries 91
Mean 0.04771
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

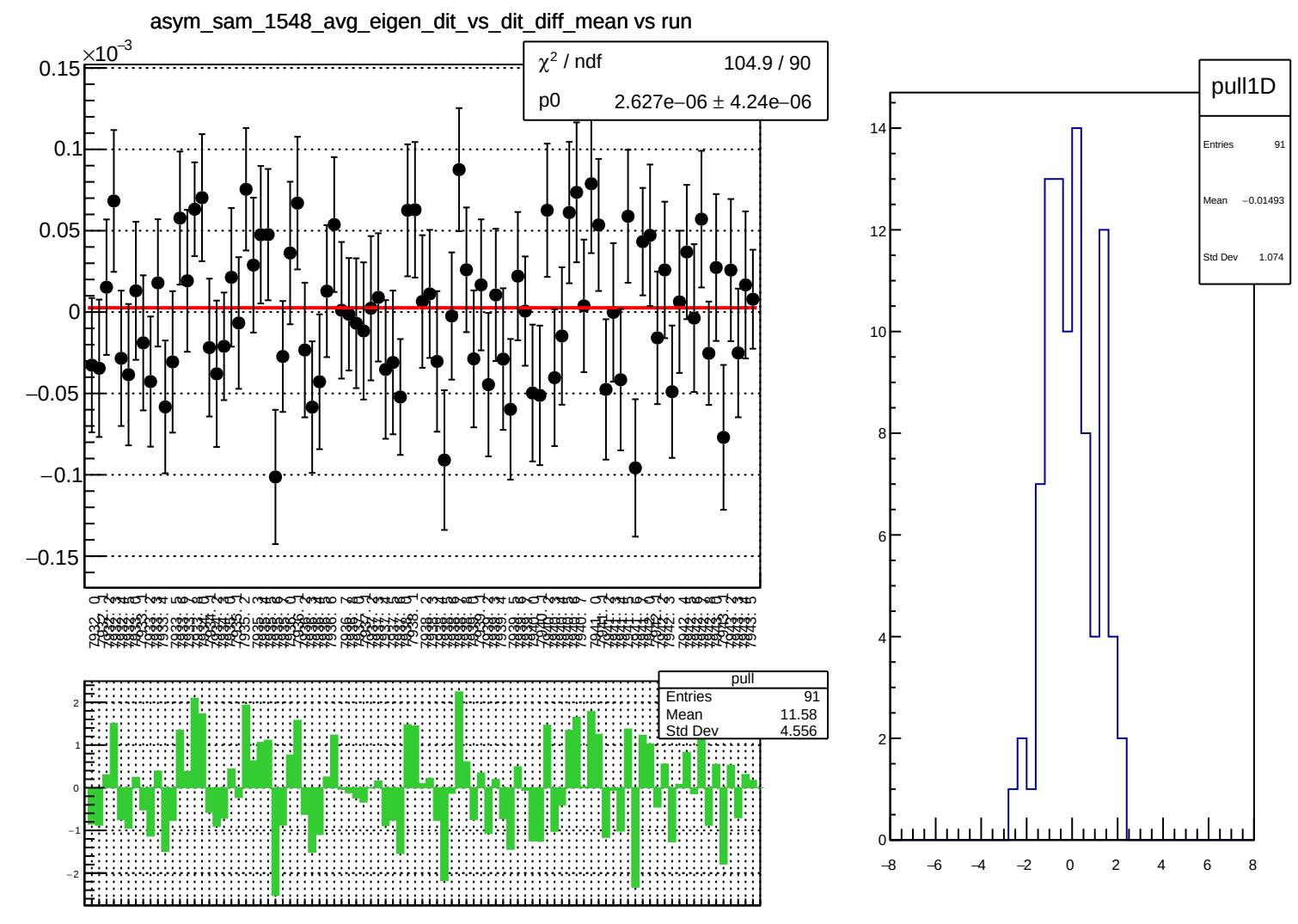

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 90
p0 1.429e−10 ± 1.697e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

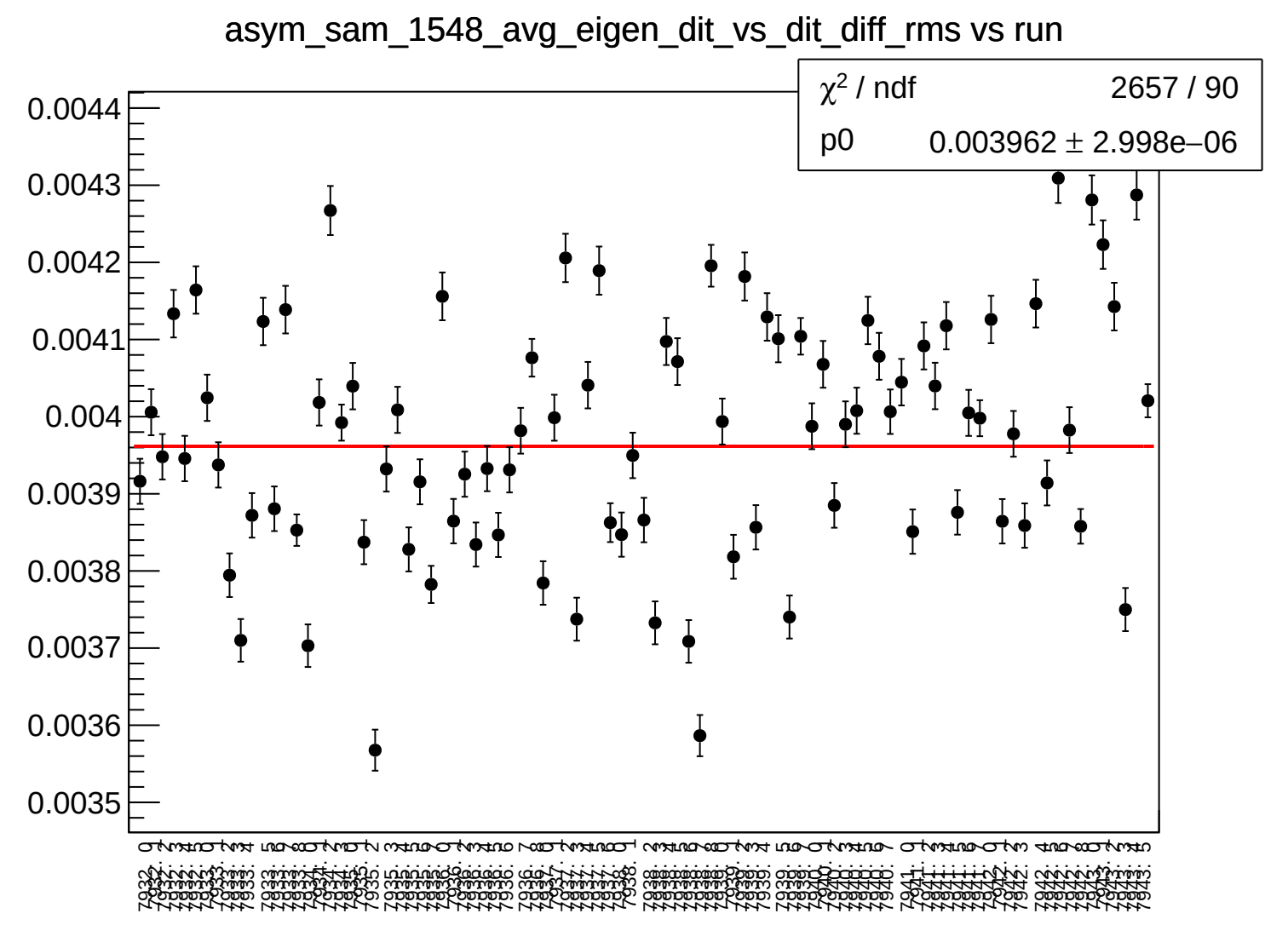

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.11 / 90
p0 0.07221 ± 0.06748
pull
Entries 91
Mean −5203
Std Dev 0
pull1D
Entries 91
Mean 0.0008618
Std Dev 1.044

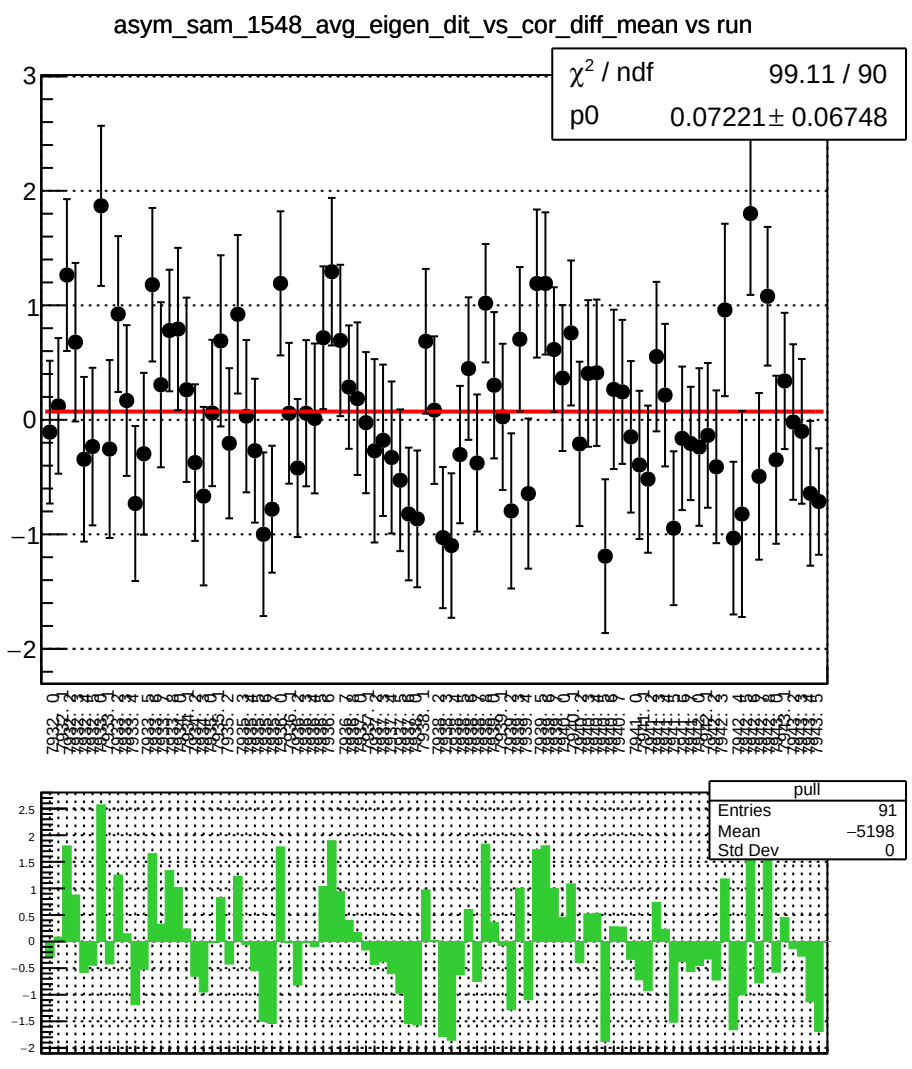

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.206e+04 / 90
p0 62.87 ± 0.04771
95
90
85
80
75
70
65
60
55

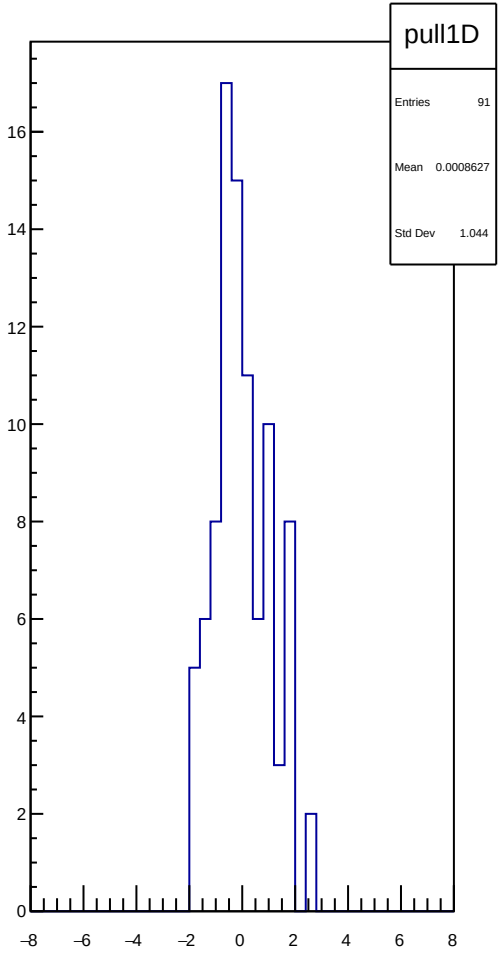

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.11 / 90
p0 0.07221 ± 0.06748
pull
Entries 91
Mean −5203
Std Dev 0
pull1D
Entries 91
Mean 0.0008618
Std Dev 1.044

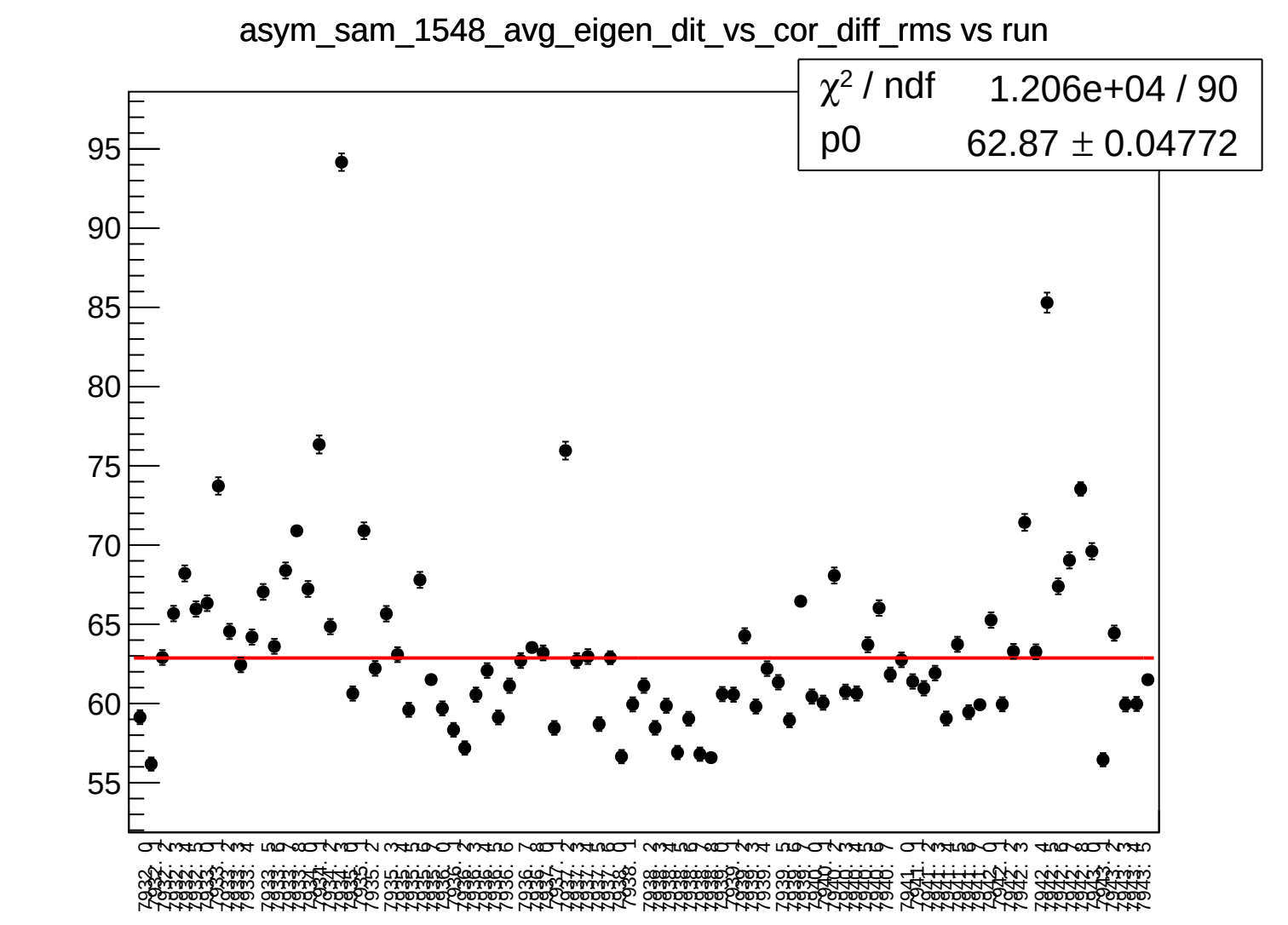

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.206e+04 / 90
p0 62.87 ± 0.04771
95
90
85
80
75
70
65
60
55

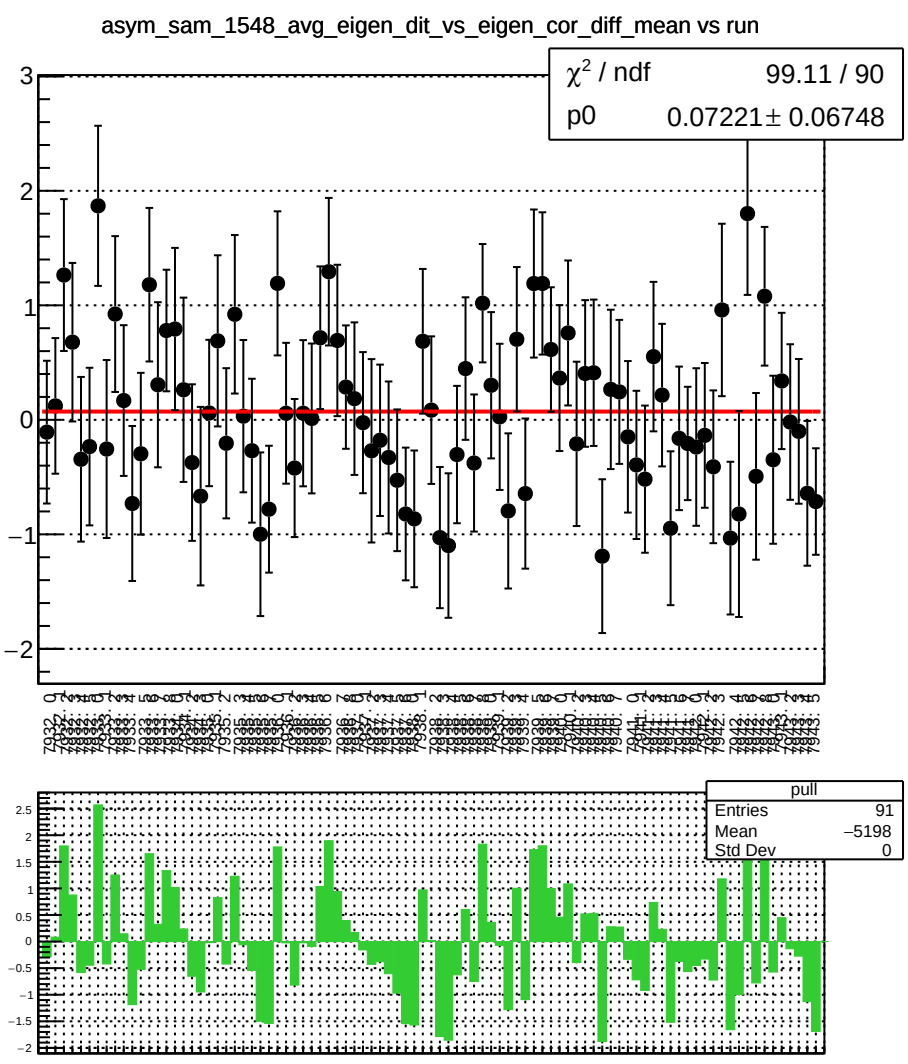

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.9 / 90
p0 2.627e−06 ± 4.24e−06
pull
Entries 91
Mean 11.58
Std Dev 4.556
pull1D
Entries 91
Mean −0.01493
Std Dev 1.074

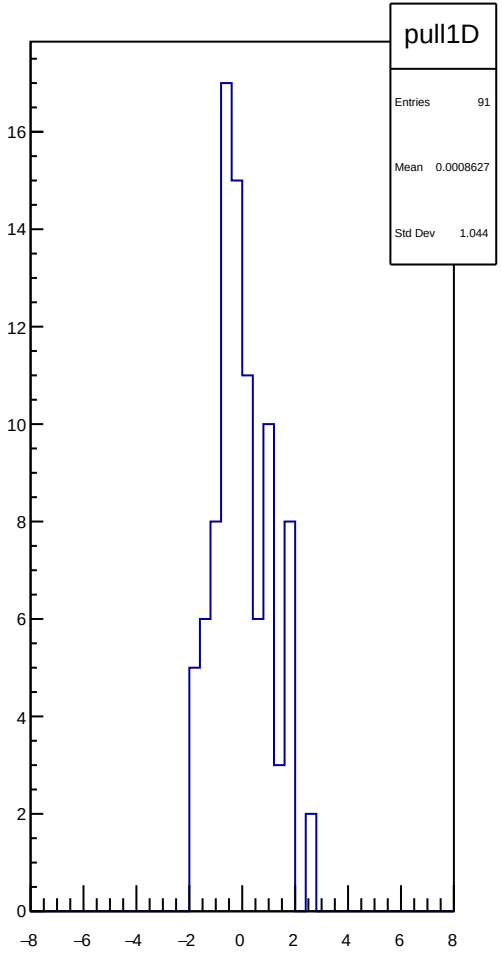

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2657 / 90
p0 0.003962 ± 2.998e−06
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035

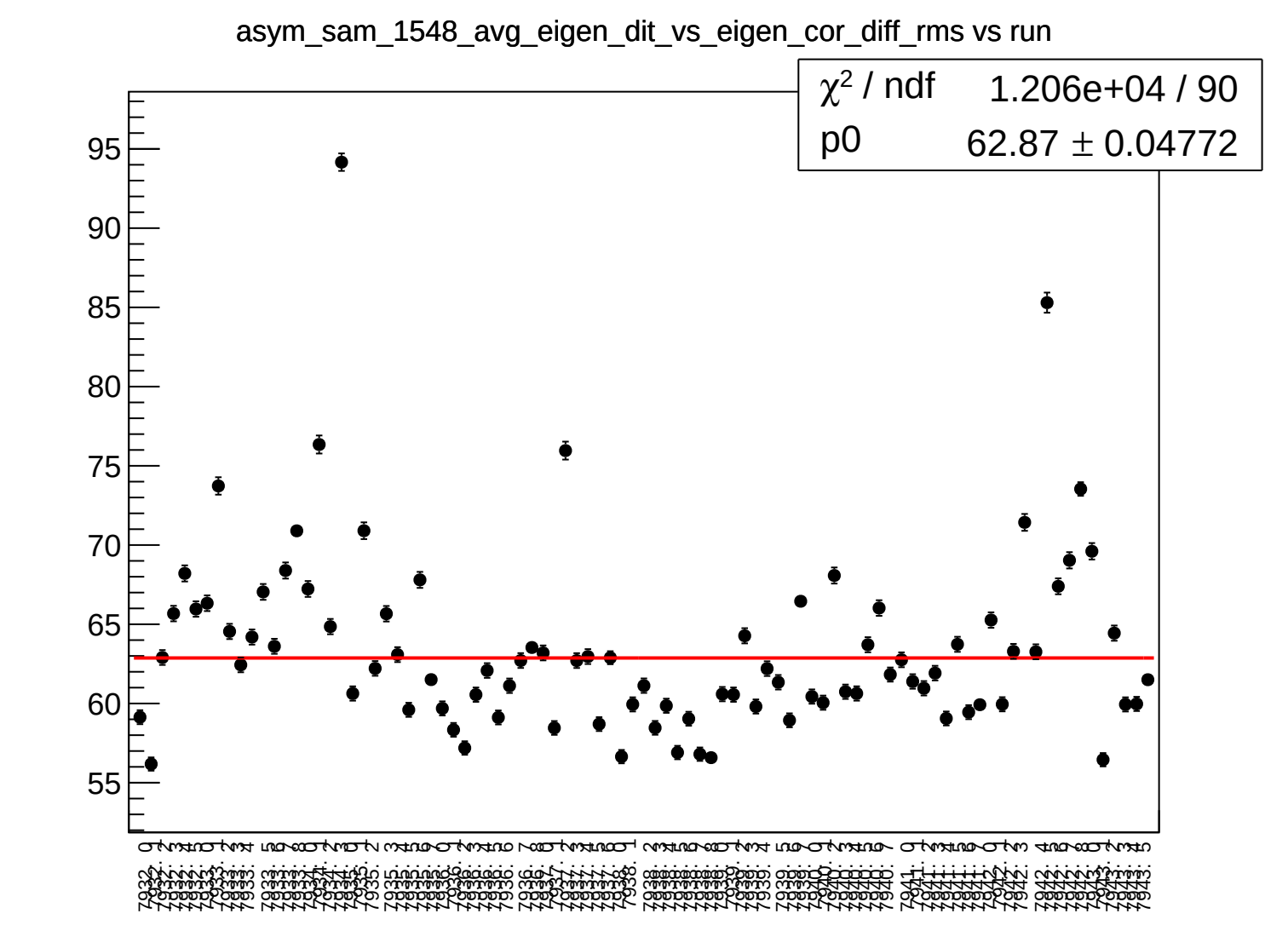

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.11 / 90
p0 0.07221 ± 0.06748
pull
Entries 91
Mean −5198
Std Dev 0

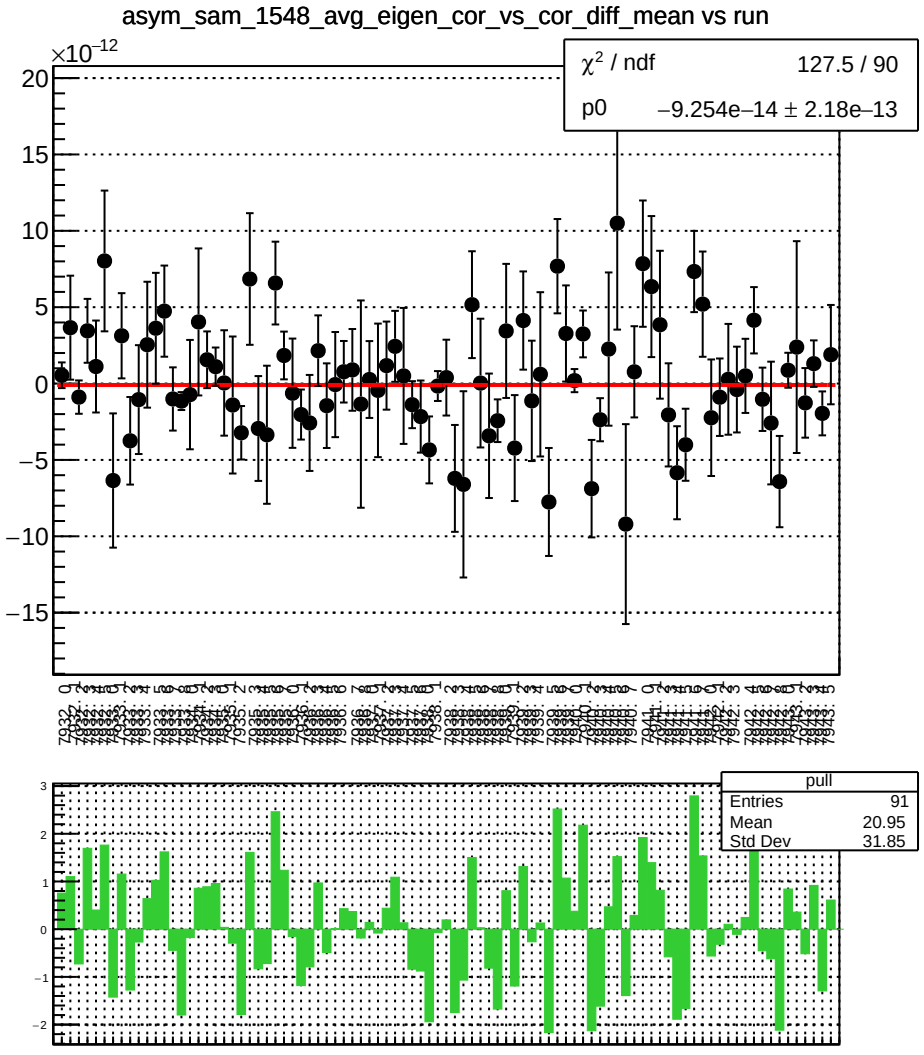

pull1D
Entries 91
Mean 0.0008627
Std Dev 1.044

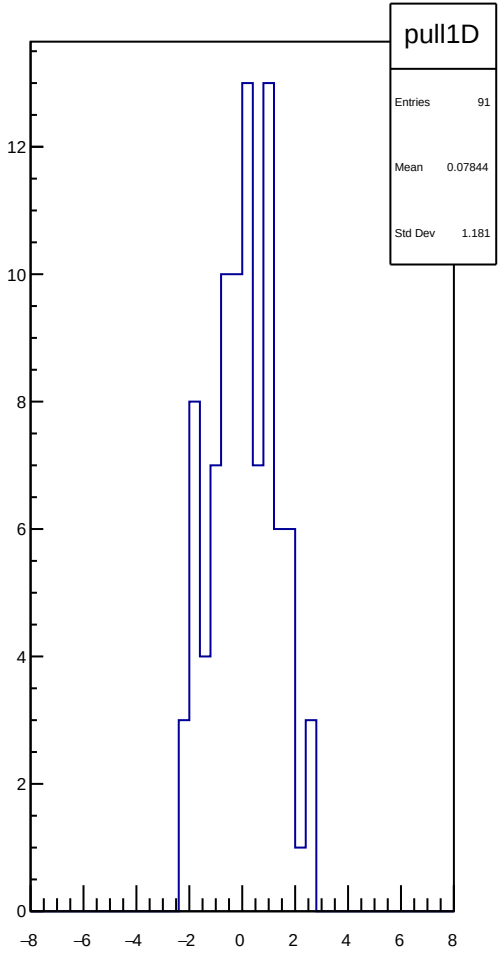

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.206e+04 / 90
p0 62.87 ± 0.04772
95
90
85
80
75
70
65
60
55

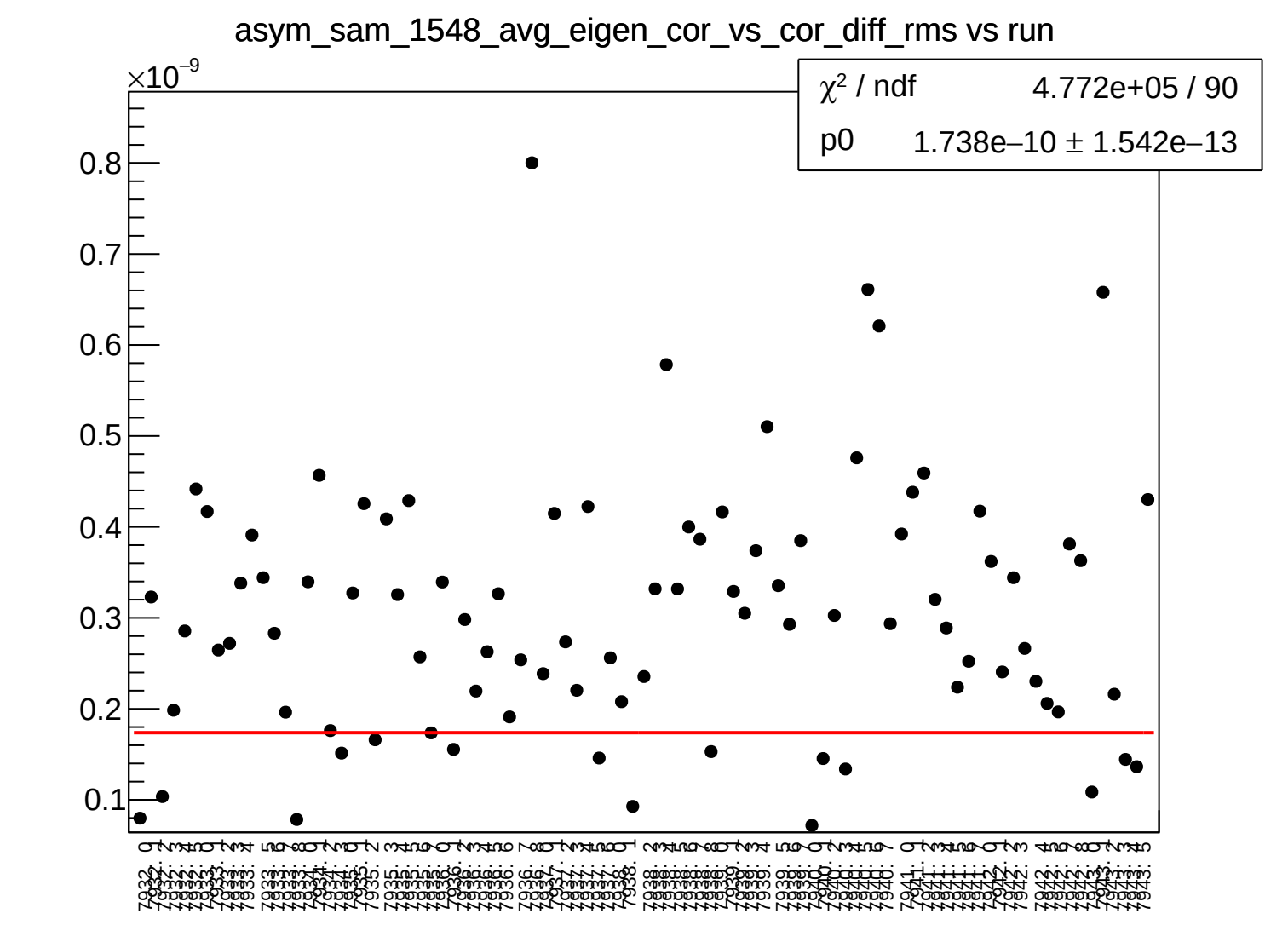

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.11 / 90
p0 0.07221 ± 0.06748
pull
Entries 91
Mean −5198
Std Dev 0

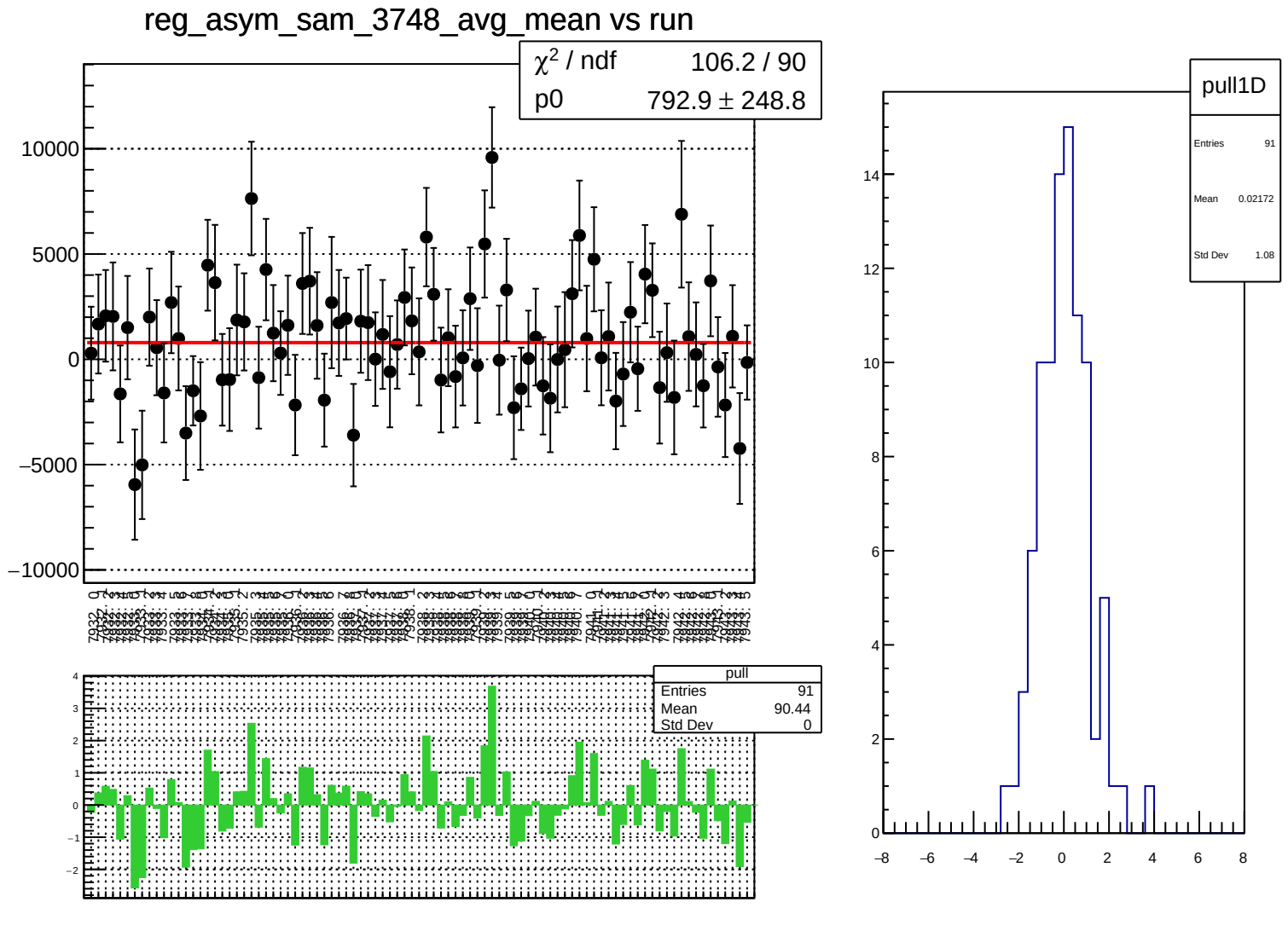

pull1D
Entries 91
Mean 0.0008627
Std Dev 1.044

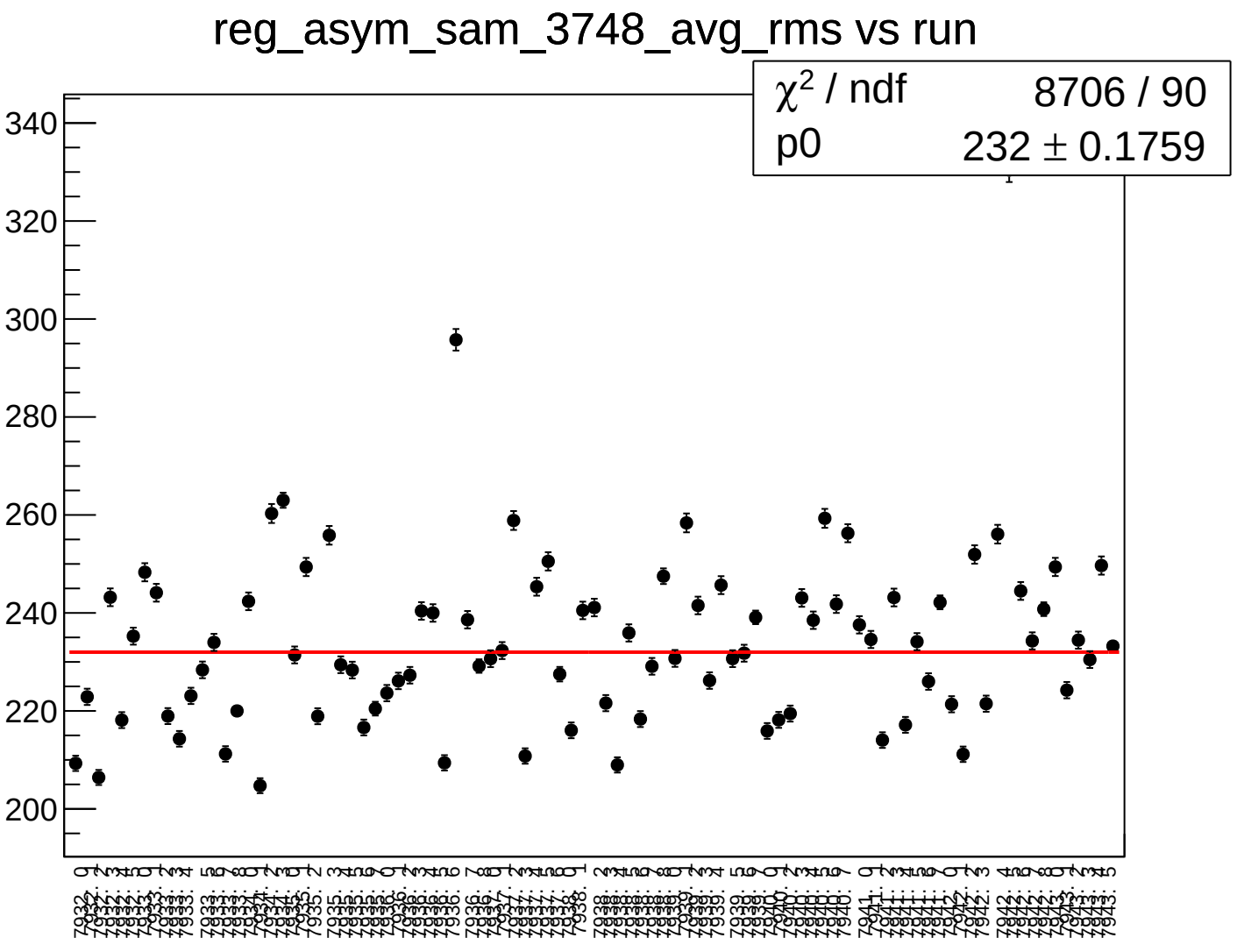

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.206e+04 / 90
p0 62.87 ± 0.04772
95
90
85
80
75
70
65
60
55

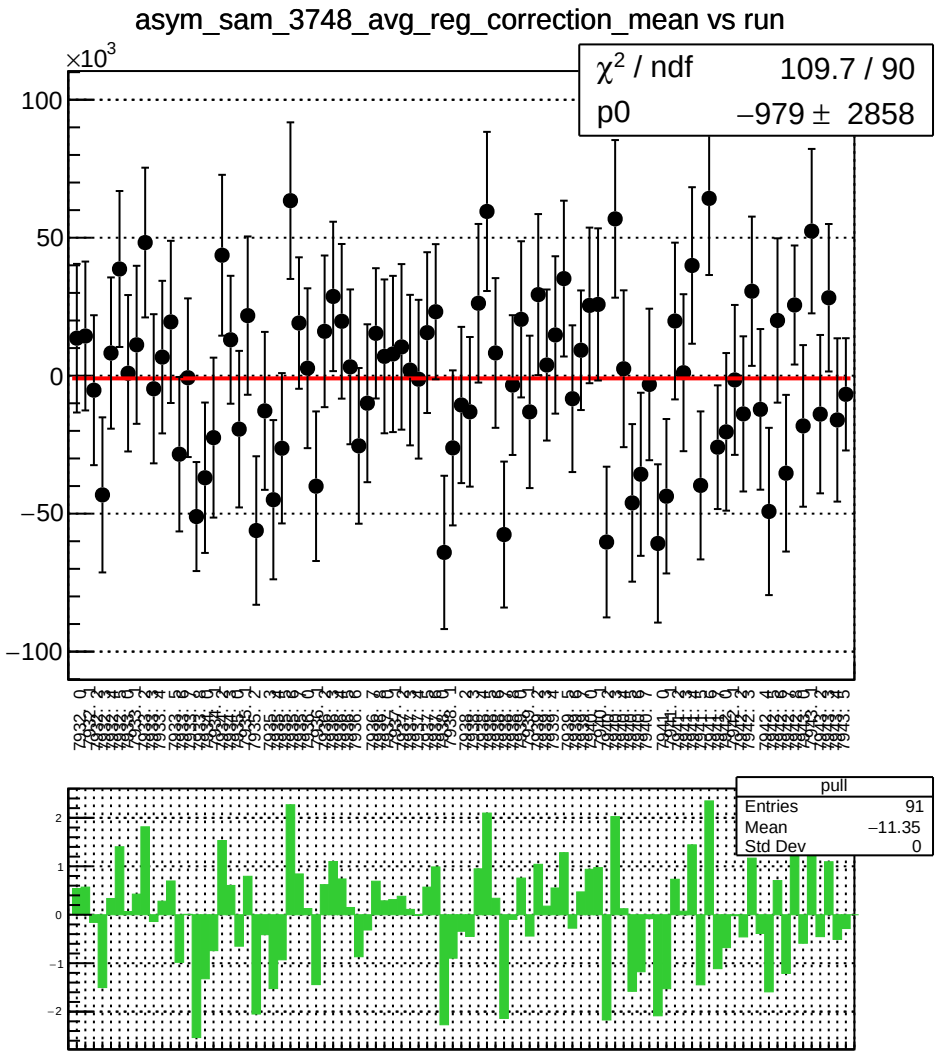

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 127.5 / 90
p0 −9.254e−14 ± 2.18e−13
pull
Entries 91
Mean 20.95
Std Dev 31.85

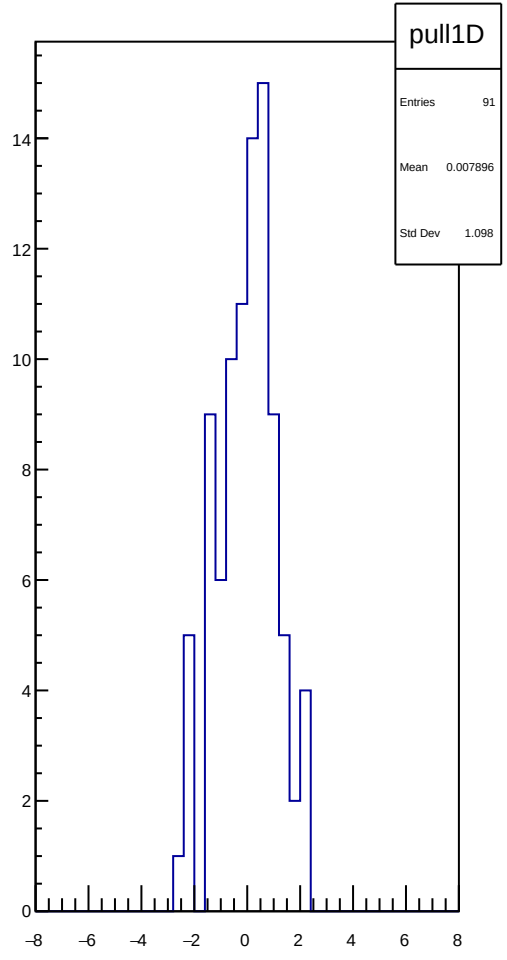

pull1D
Entries 91
Mean 0.07844
Std Dev 1.181

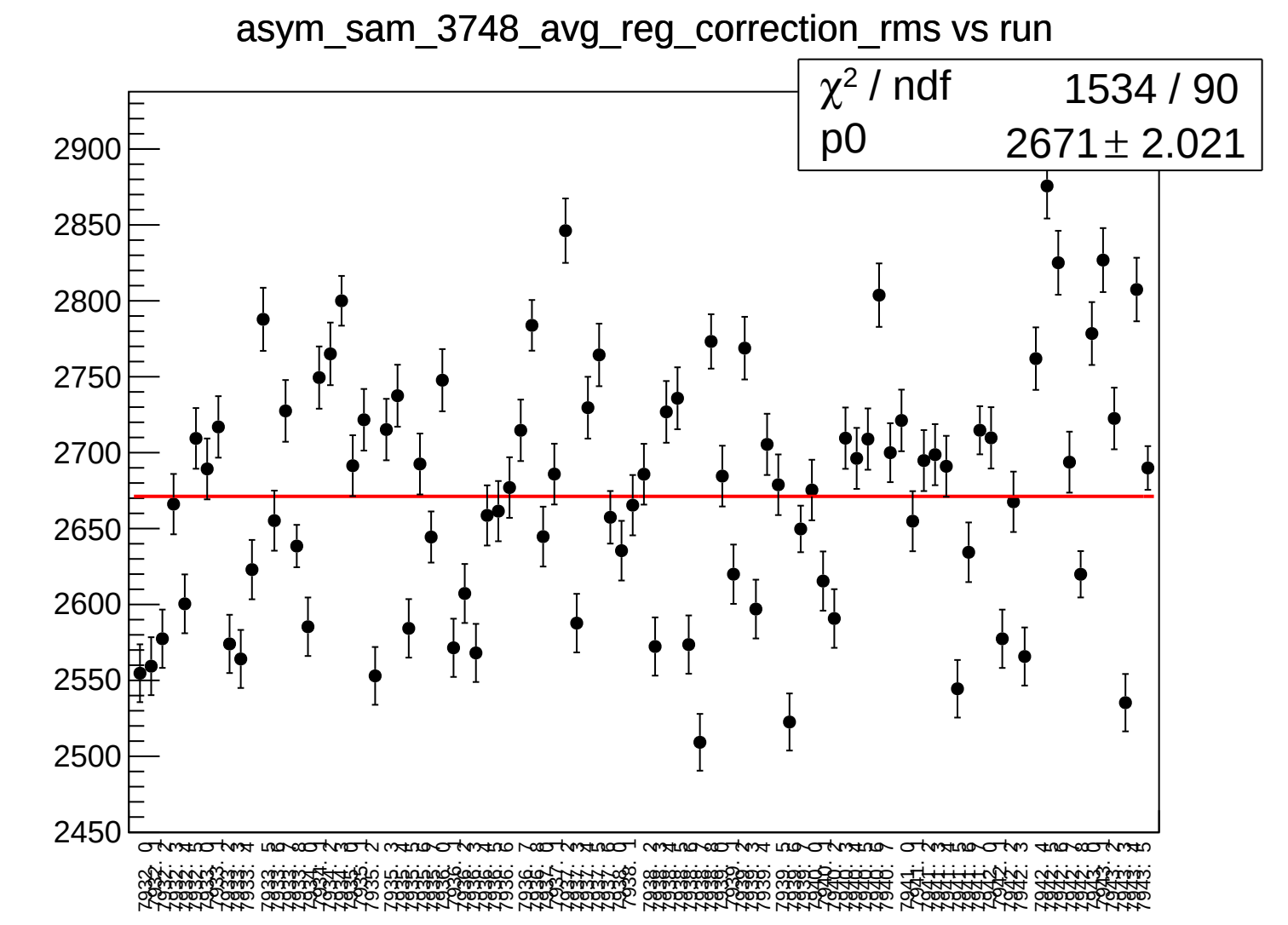

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.772e+05 / 90
p0 1.738e−10 ± 1.542e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

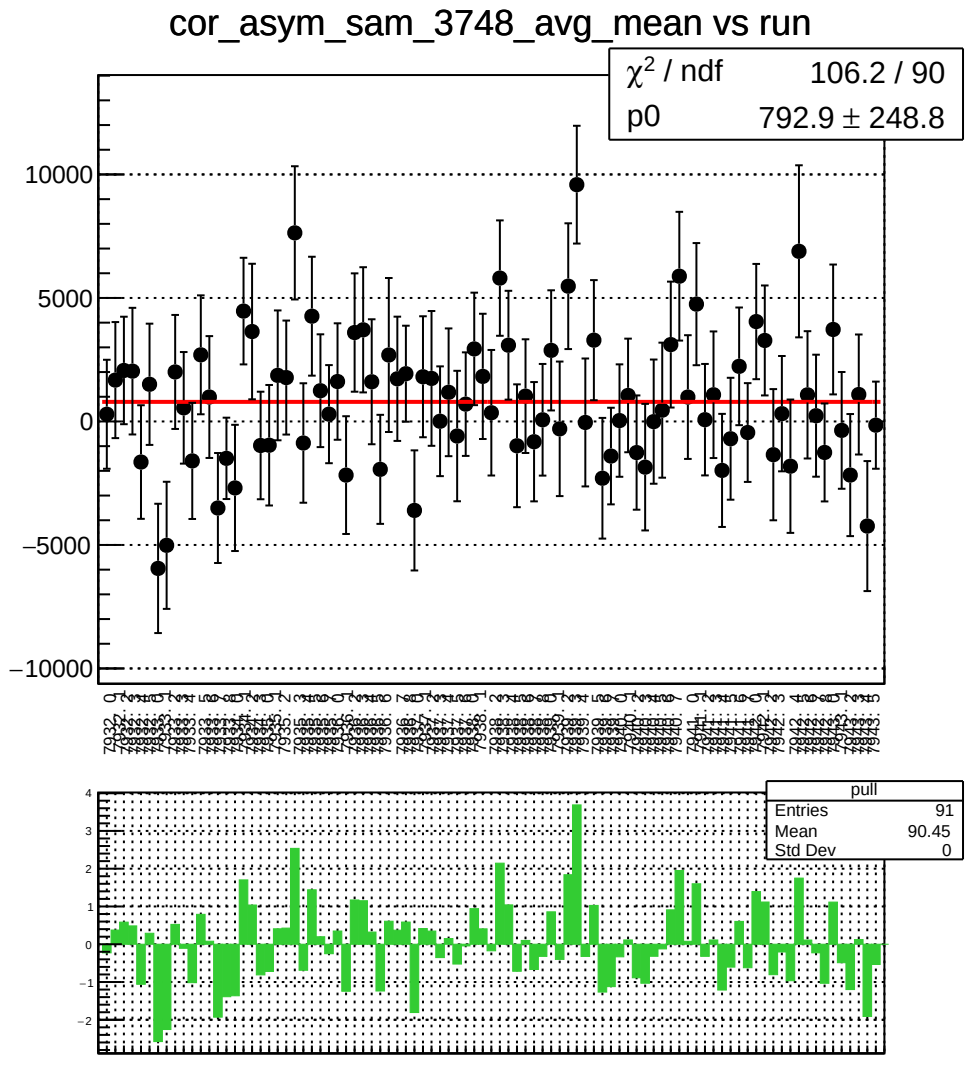

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 106.2 / 90
p0 792.9 ± 248.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 90.44
Std Dev 0
pull1D
Entries 91
Mean 0.02172
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

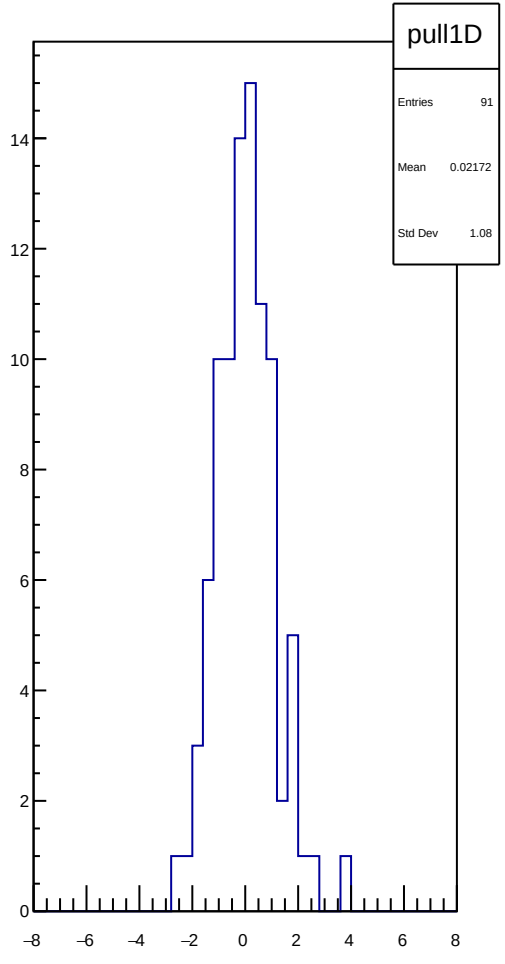

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 8706 / 90
p0 232 ± 0.1759
340
320
300
280
260
240
220
200

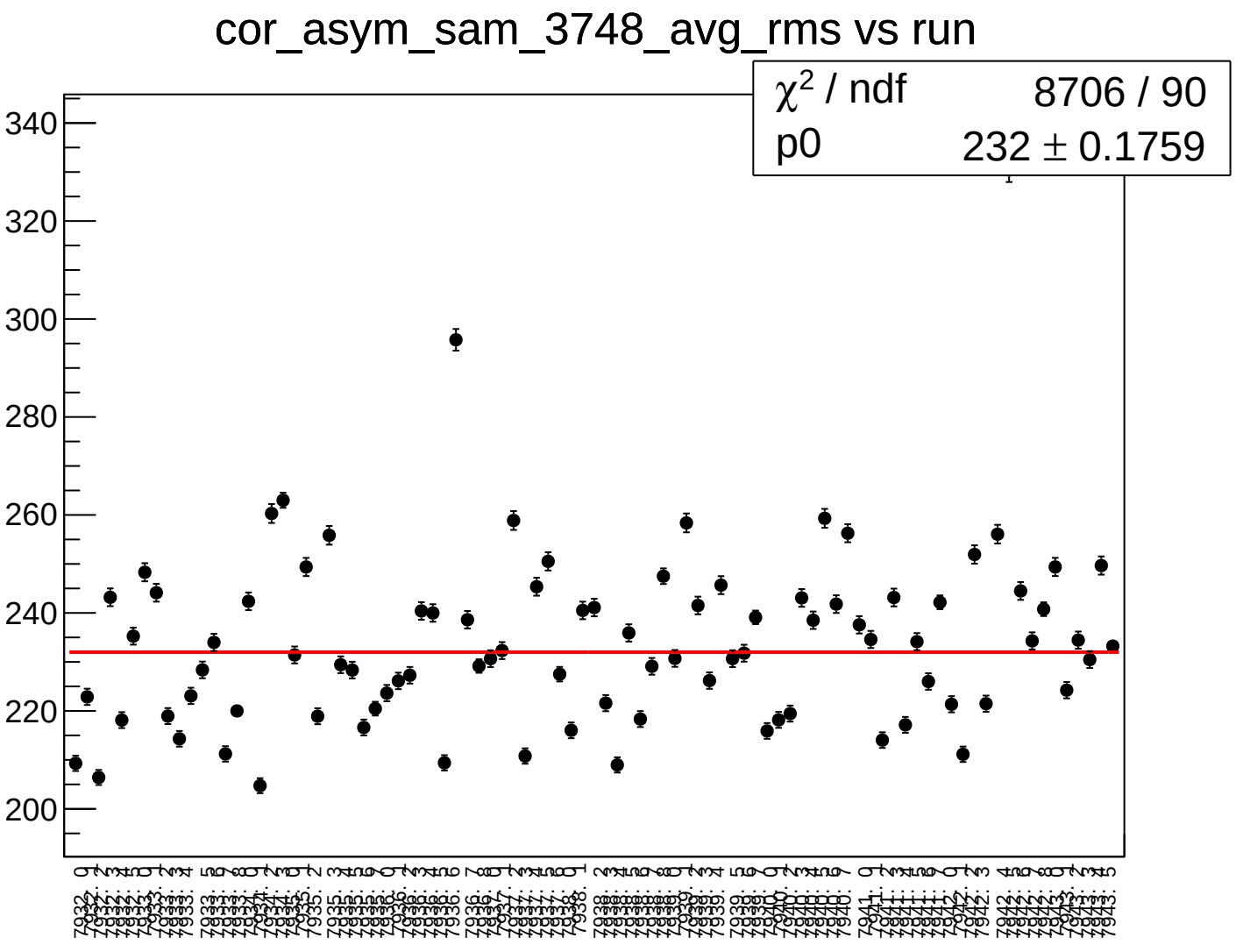

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 109.7 / 90
p0 −979 ± 2858
100
50
0
−50
−100
pull
Entries 91
Mean −11.35
Std Dev 0
2
1
0
−1
−2

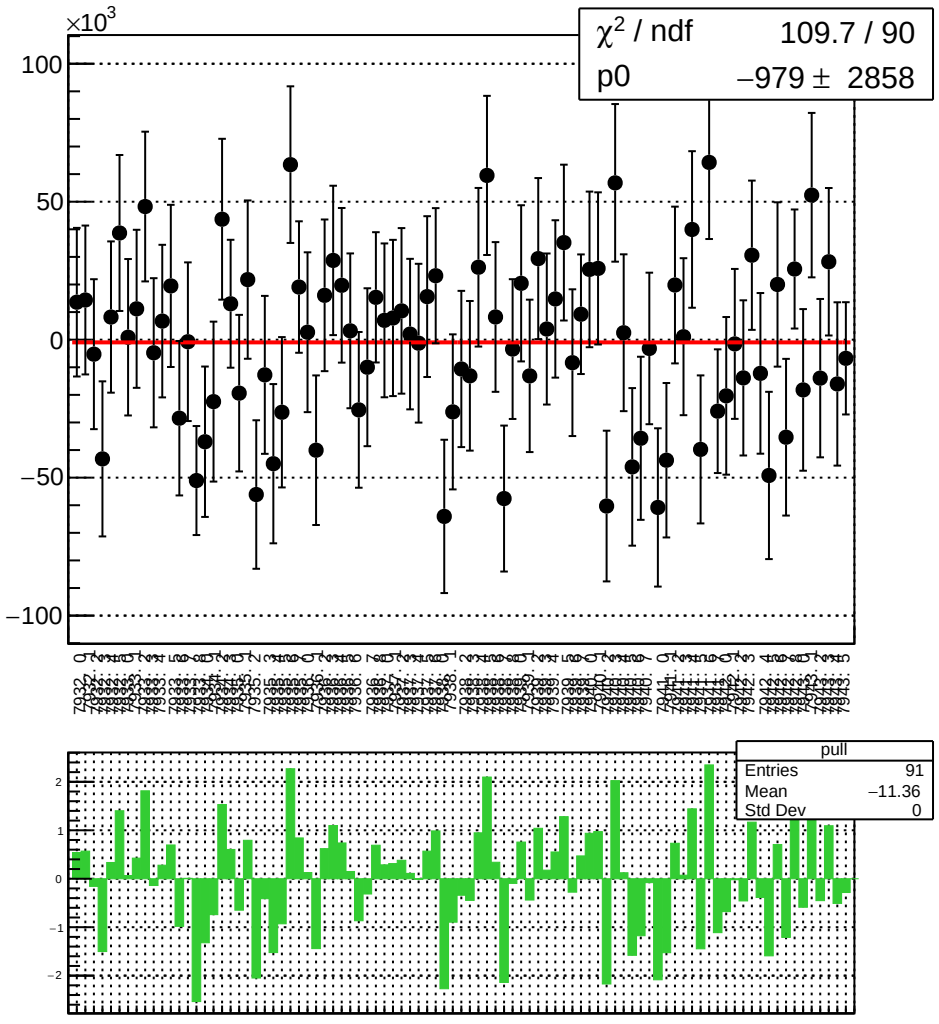

pull1D
Entries 91
Mean 0.007896
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

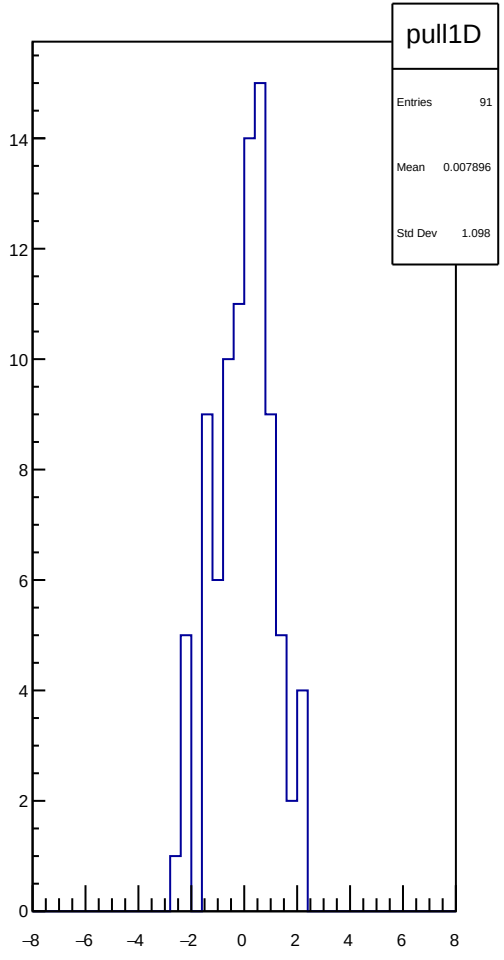

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1534 / 90
p0 2671 ± 2.021
2900
2850
2800
2750
2700
2650
2600
2550
2500
2450

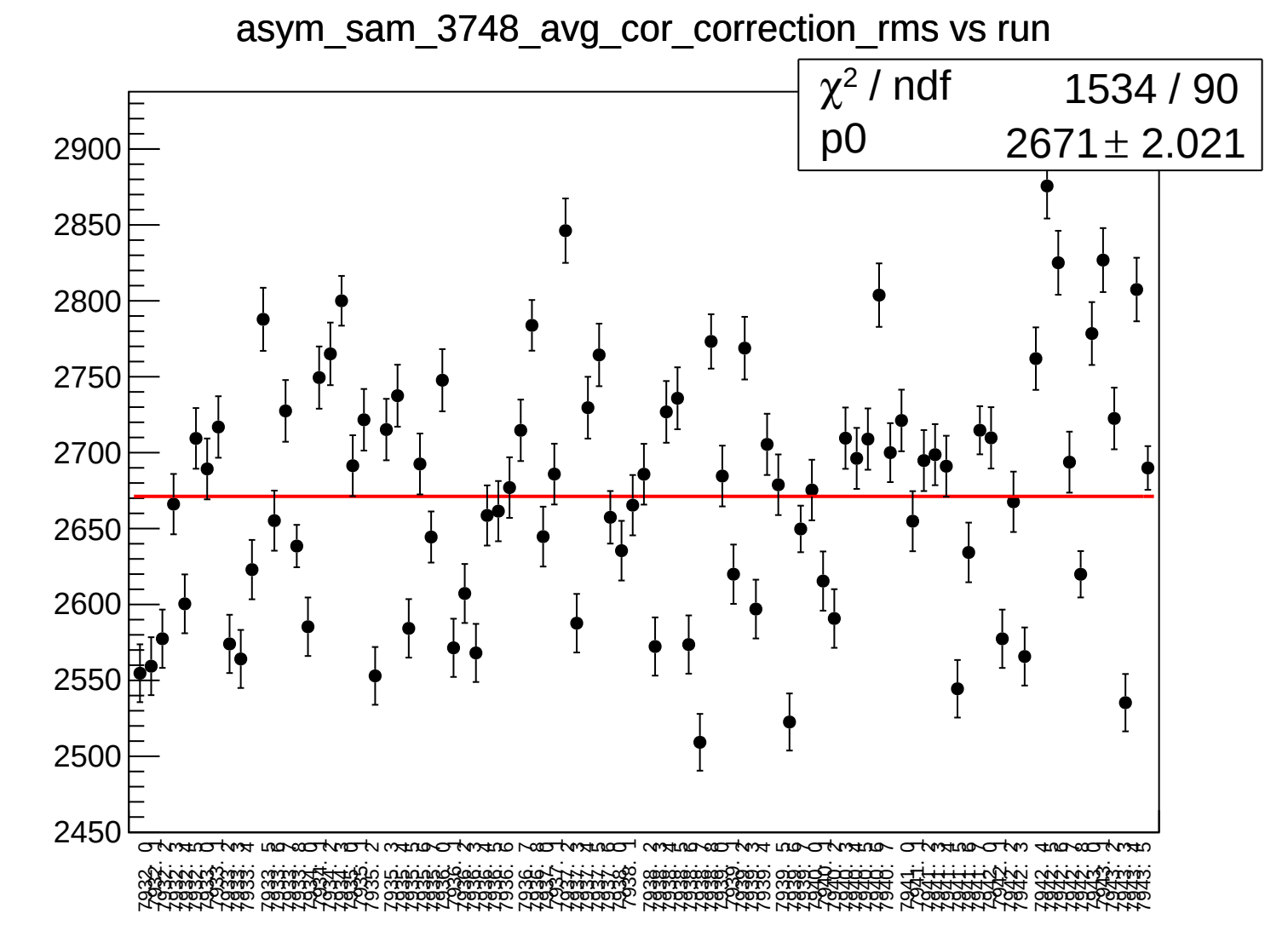

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 106.2 / 90
p0 792.9 ± 248.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 90.45
Std Dev 0
4
3
2
1
0
−1
−2

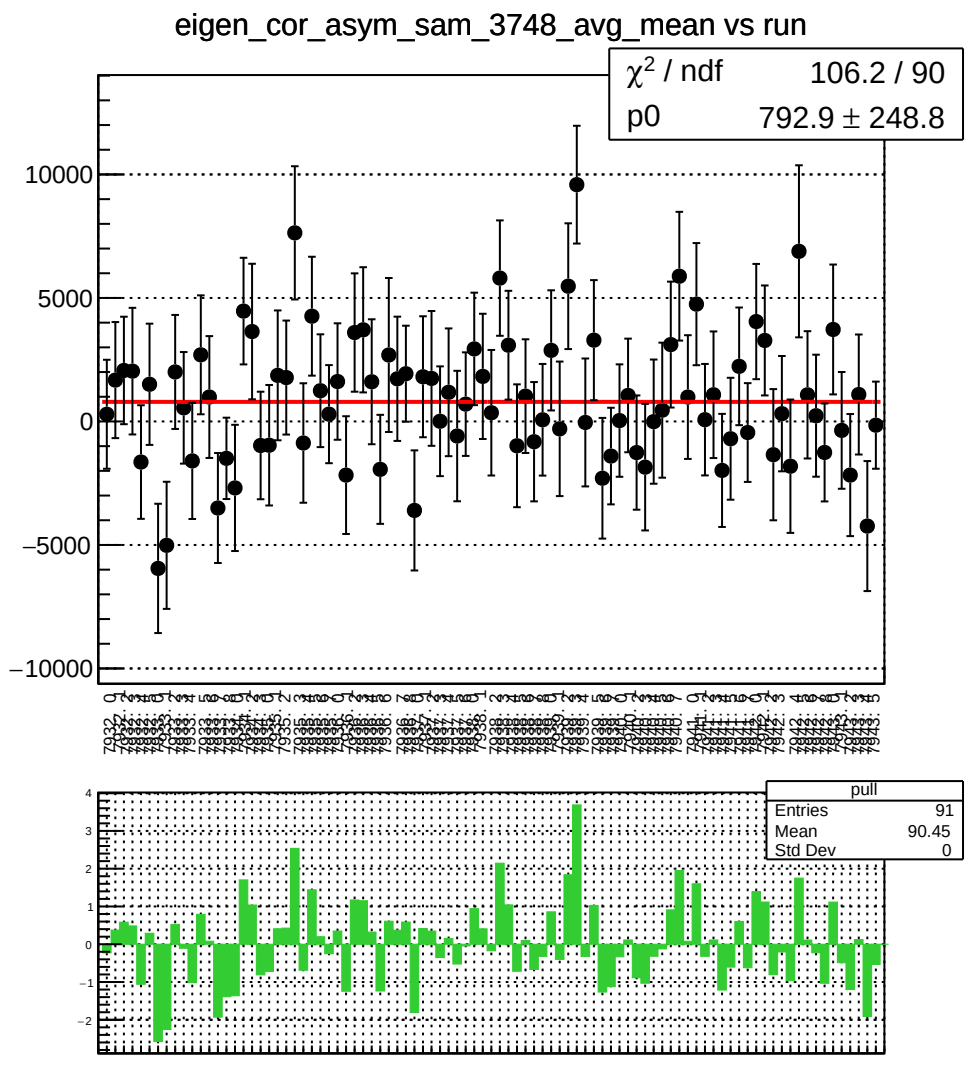

pull1D
Entries 91
Mean 0.02172
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

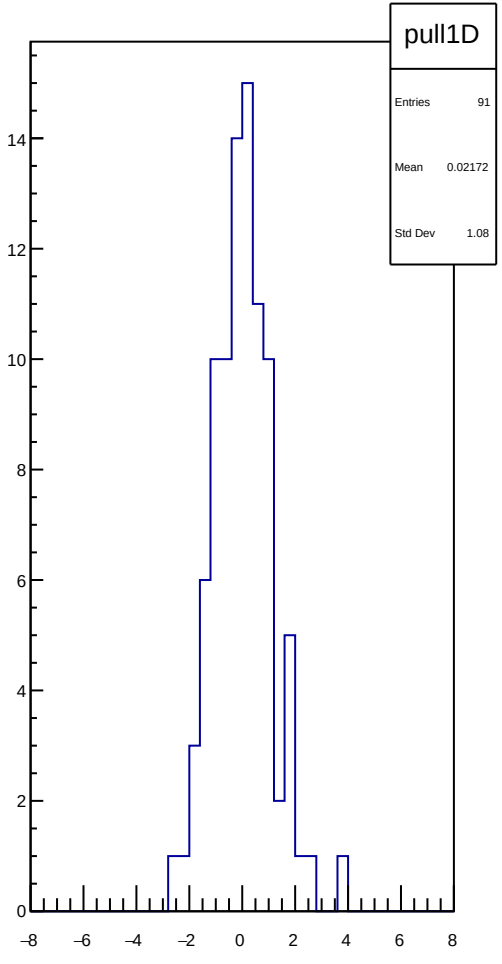

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 8706 / 90
p0 232 ± 0.1759
340
320
300
280
260
240
220
200

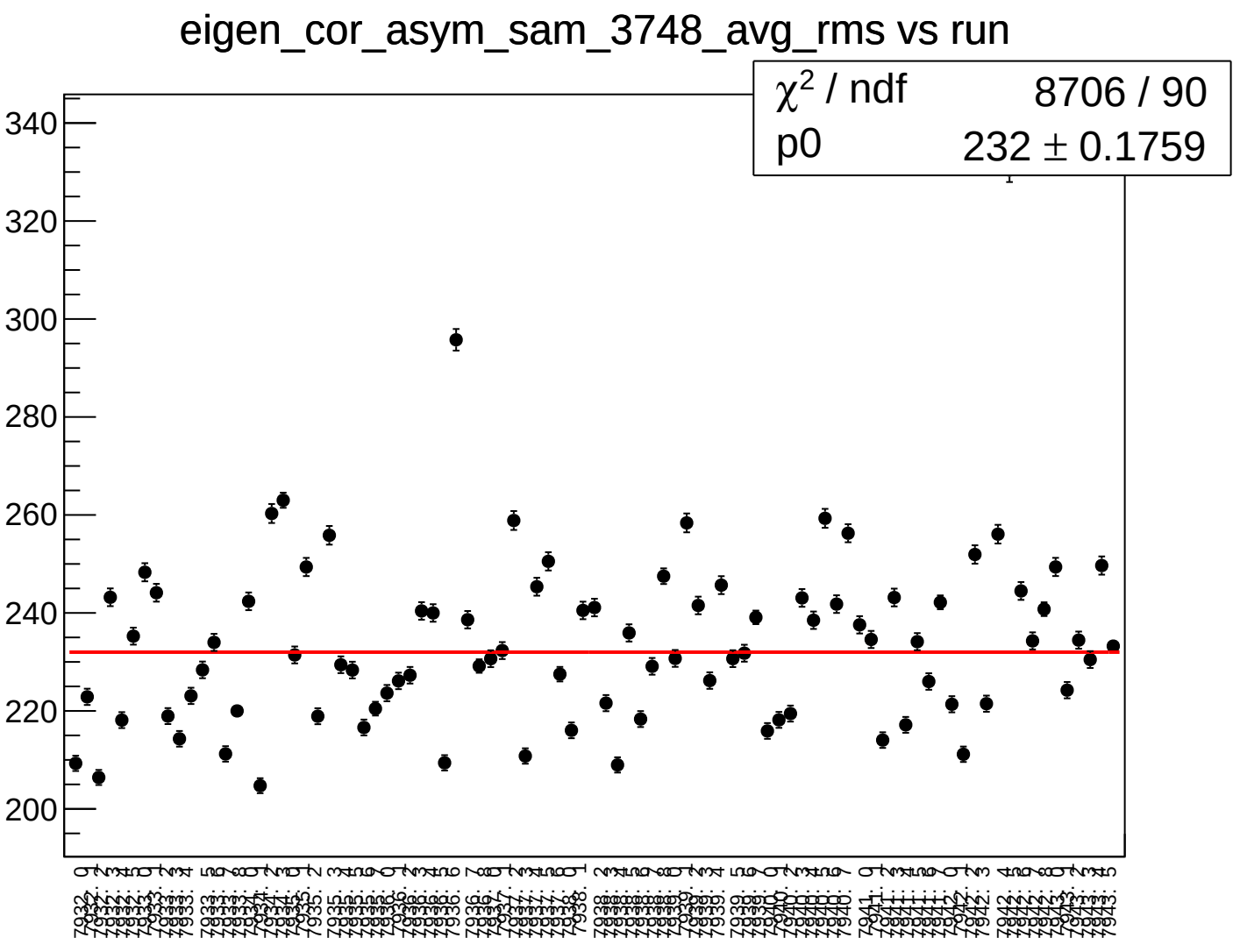

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 109.7 / 90
p0 −979 ± 2858
pull
Entries 91
Mean −11.36
Std Dev 0

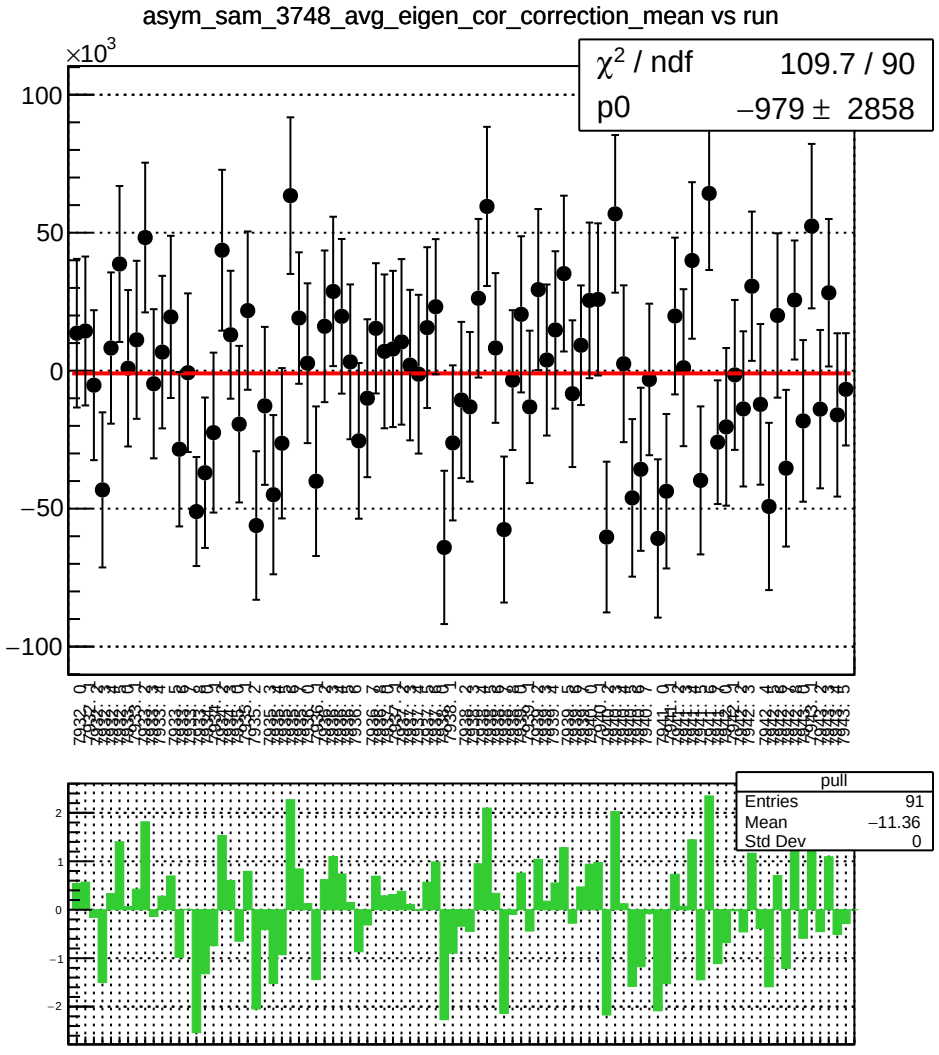

pull1D
Entries 91
Mean 0.007896
Std Dev 1.098

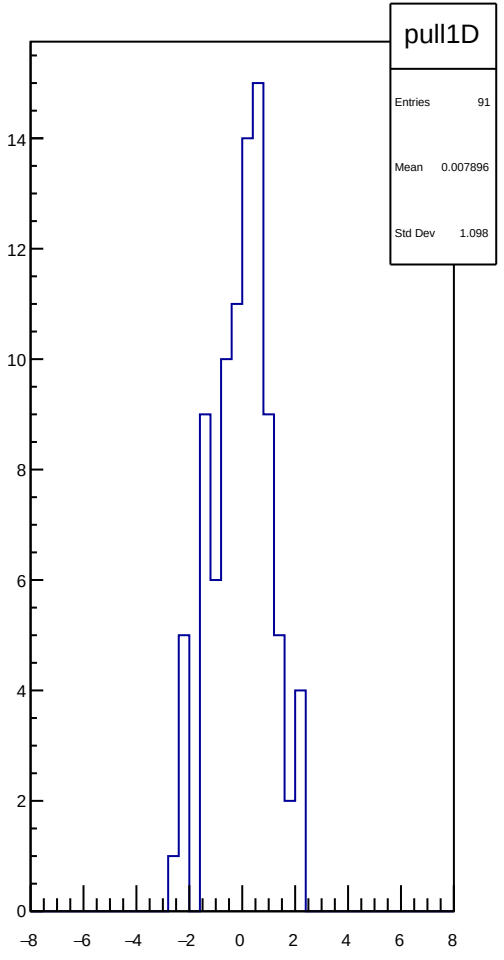

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1534 / 90
p0 2671 ± 2.021
2900
2850
2800
2750
2700
2650
2600
2550
2500
2450

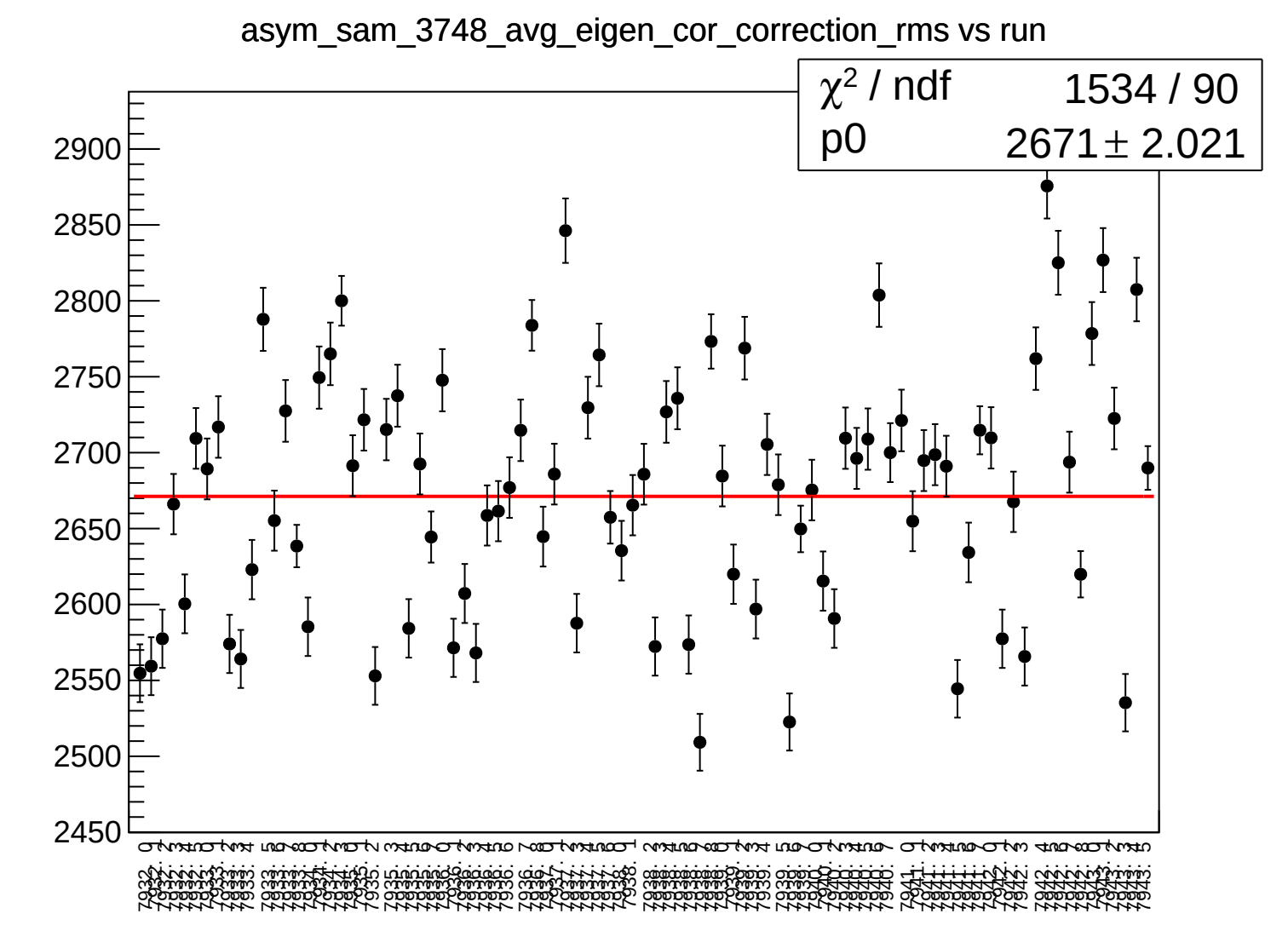

eigen_cor_asym_sam_3748_avg_mean vs run
χ^2 / ndf 106.2 / 90
p0 792.9 ± 248.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 90.45
Std Dev 0
4
3
2
1
0
−1
−2

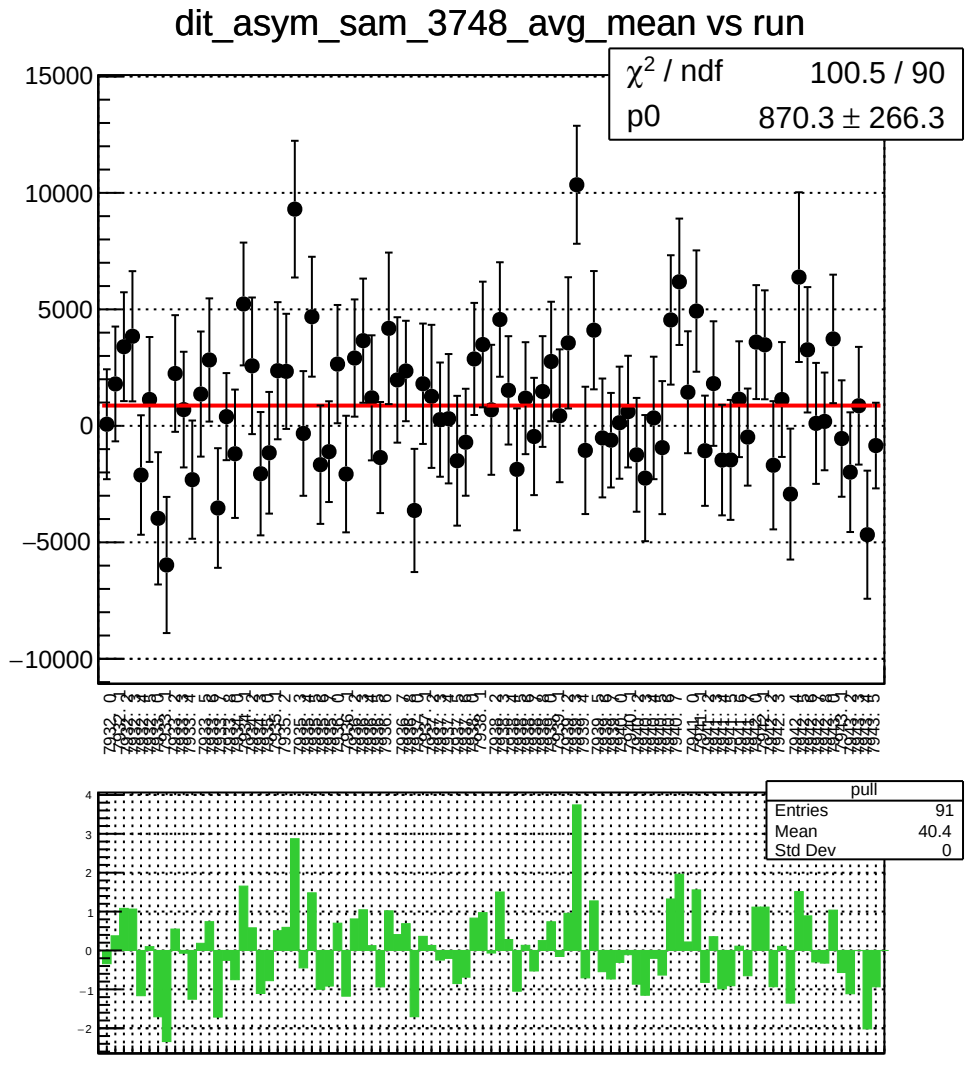

pull1D
Entries 91
Mean 0.02172
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

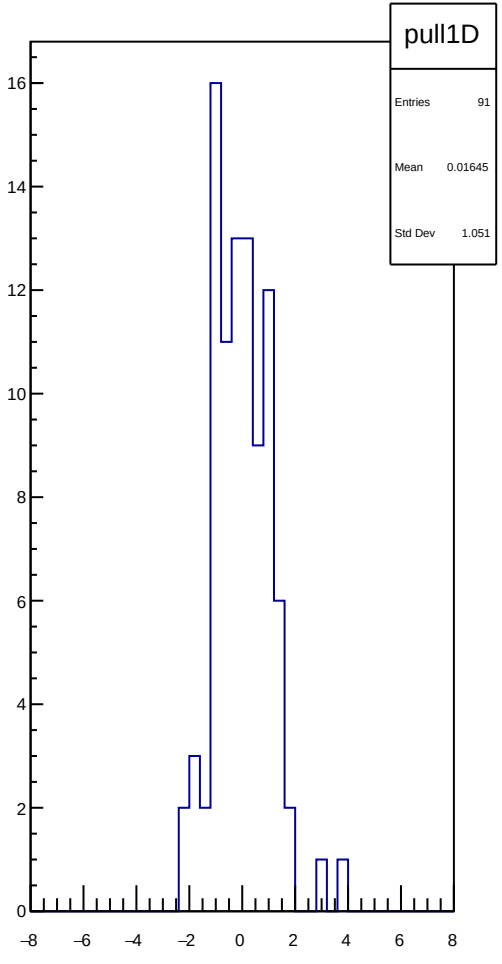

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 8706 / 90
p0 232 ± 0.1759
340
320
300
280
260
240
220
200

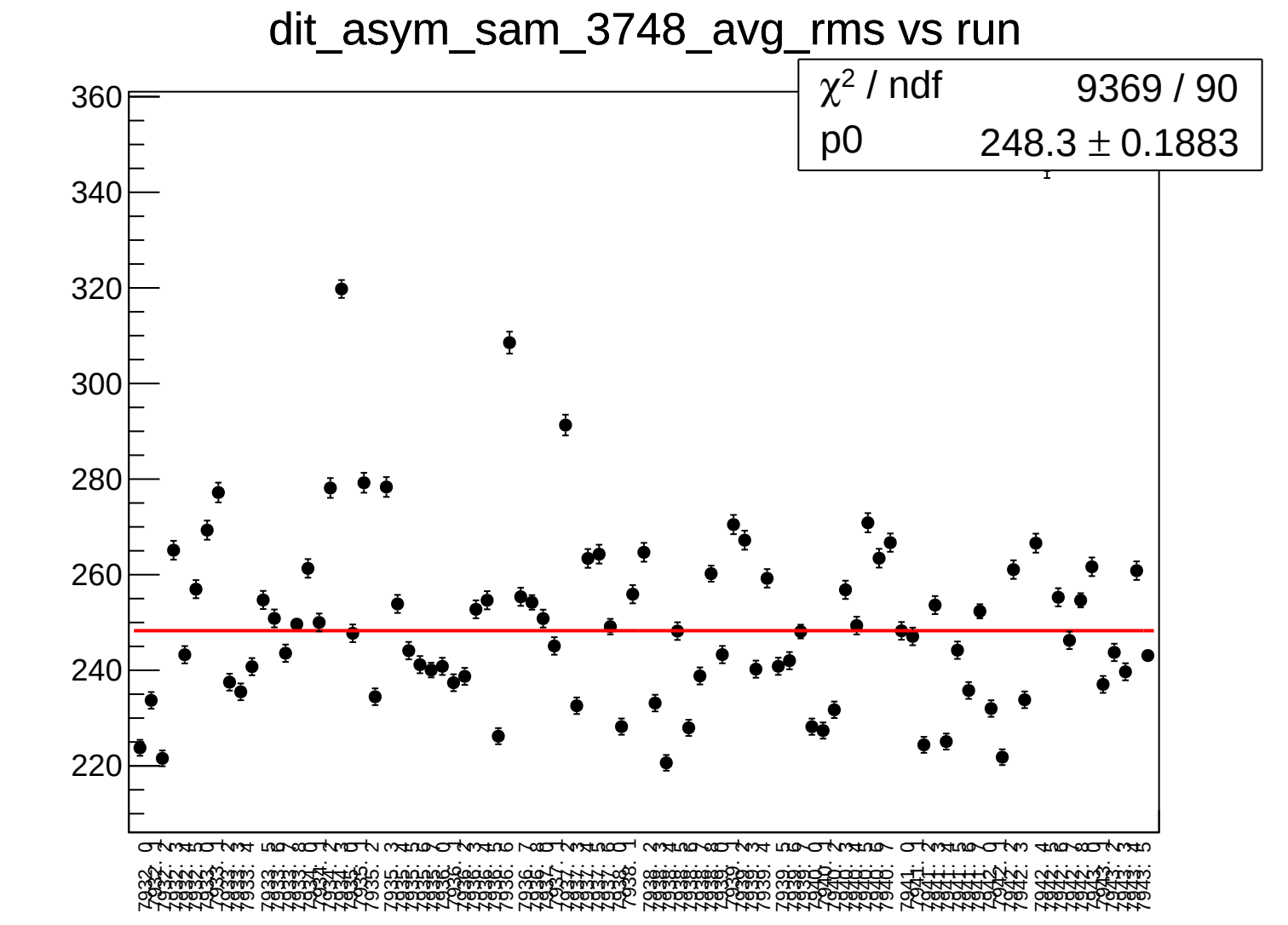

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.7 / 90
p0 −979 ± 2858
pull
Entries 91
Mean −11.36
Std Dev 0

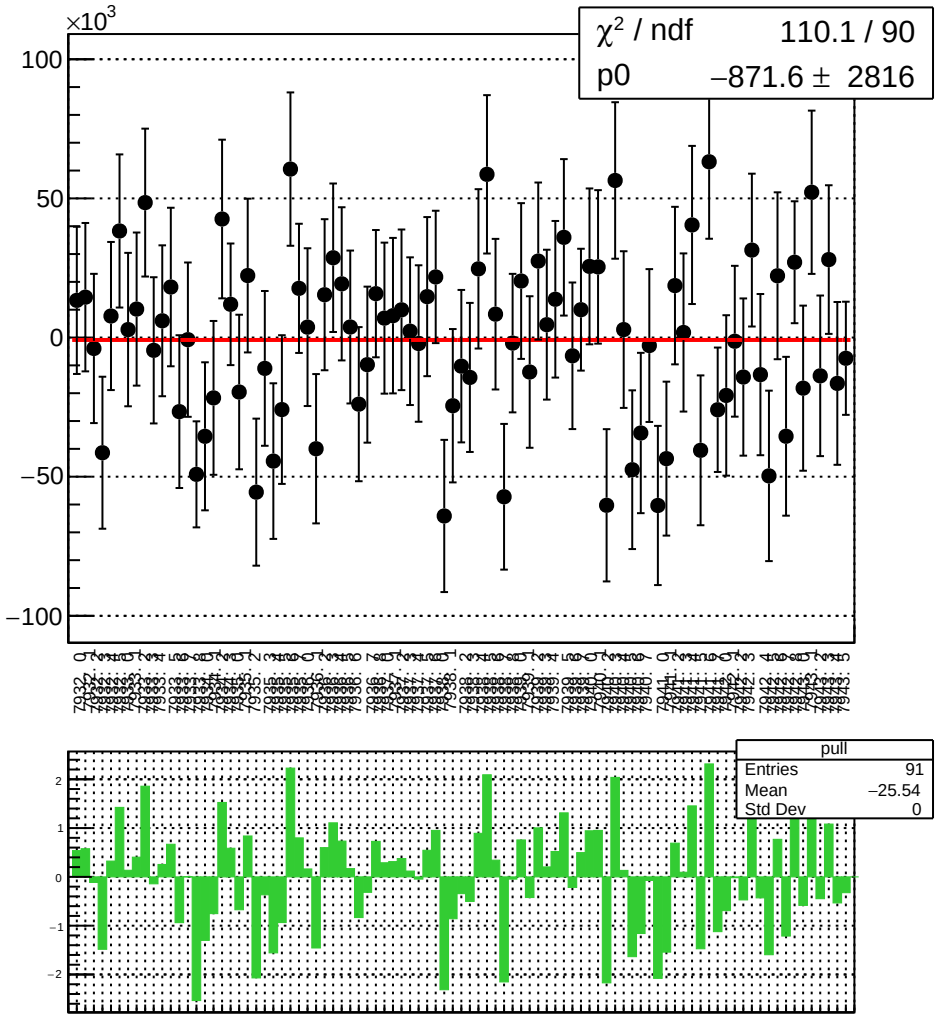

pull1D
Entries 91
Mean 0.007896
Std Dev 1.098

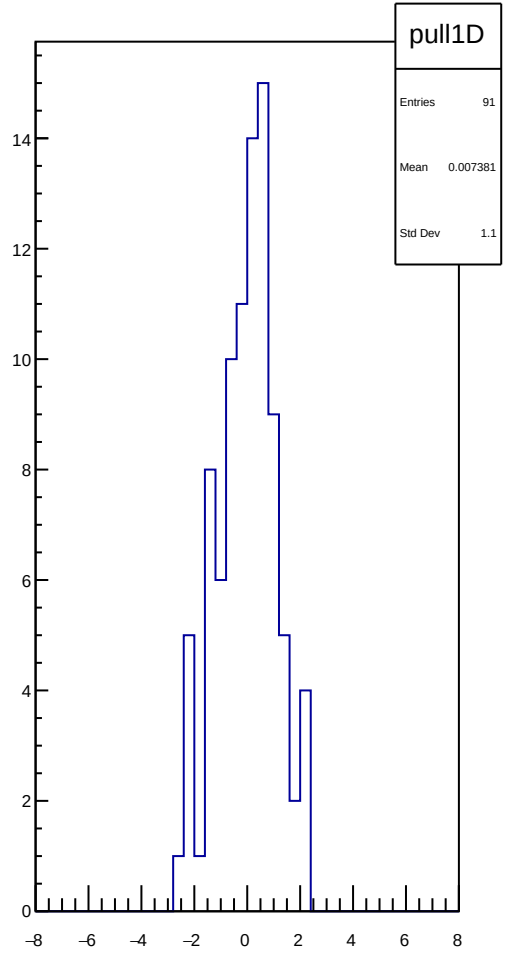

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1534 / 90
p0 2671 ± 2.021
2900
2850
2800
2750
2700
2650
2600
2550
2500
2450

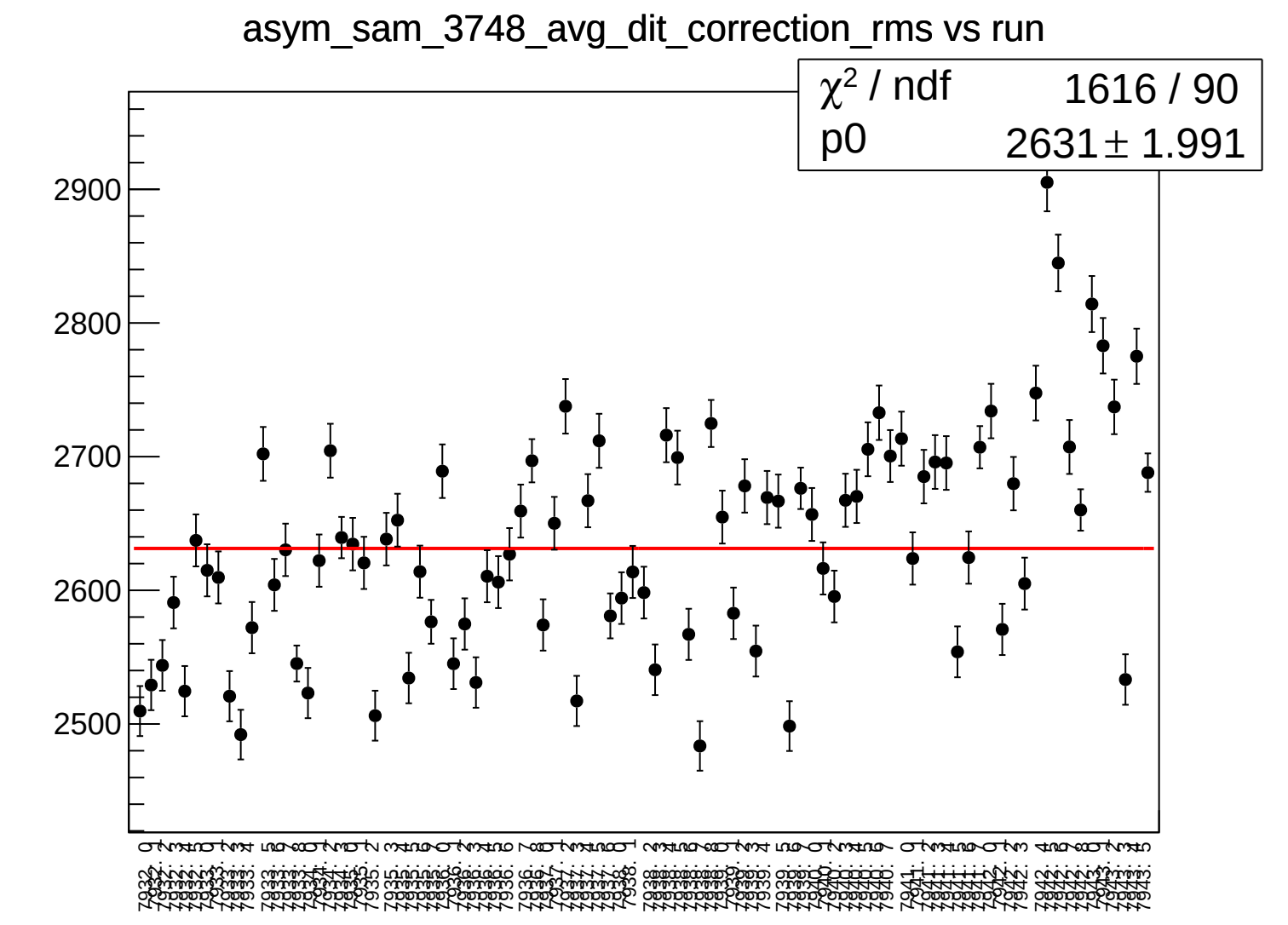

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 100.5 / 90
p0 870.3 ± 266.3
pull
Entries 91
Mean 40.4
Std Dev 0

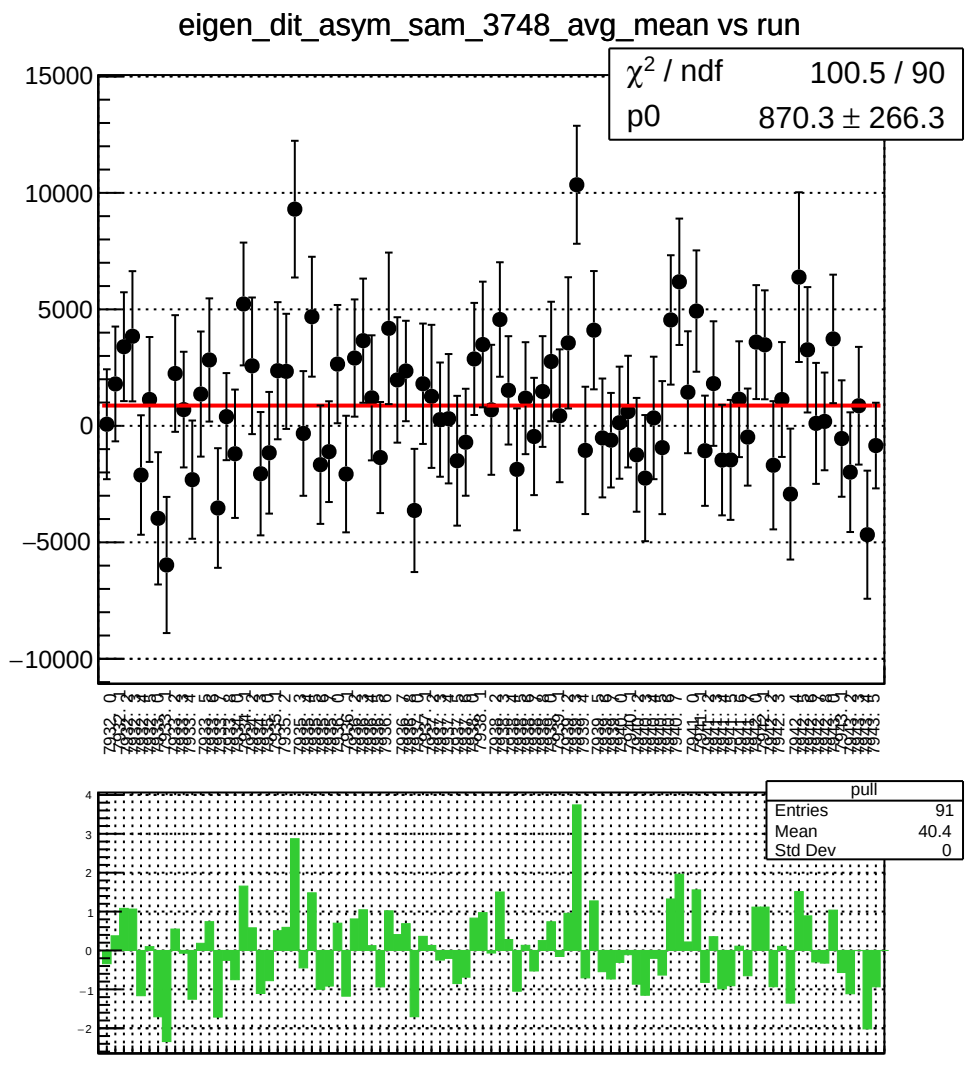

pull1D
Entries 91
Mean 0.01645
Std Dev 1.051

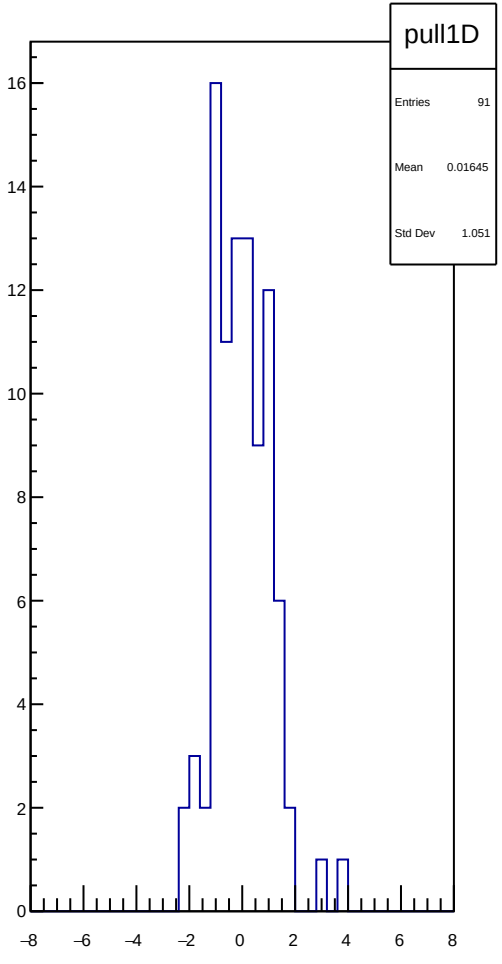

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9369 / 90
p0 248.3 ± 0.1883
360
340
320
300
280
260
240
220

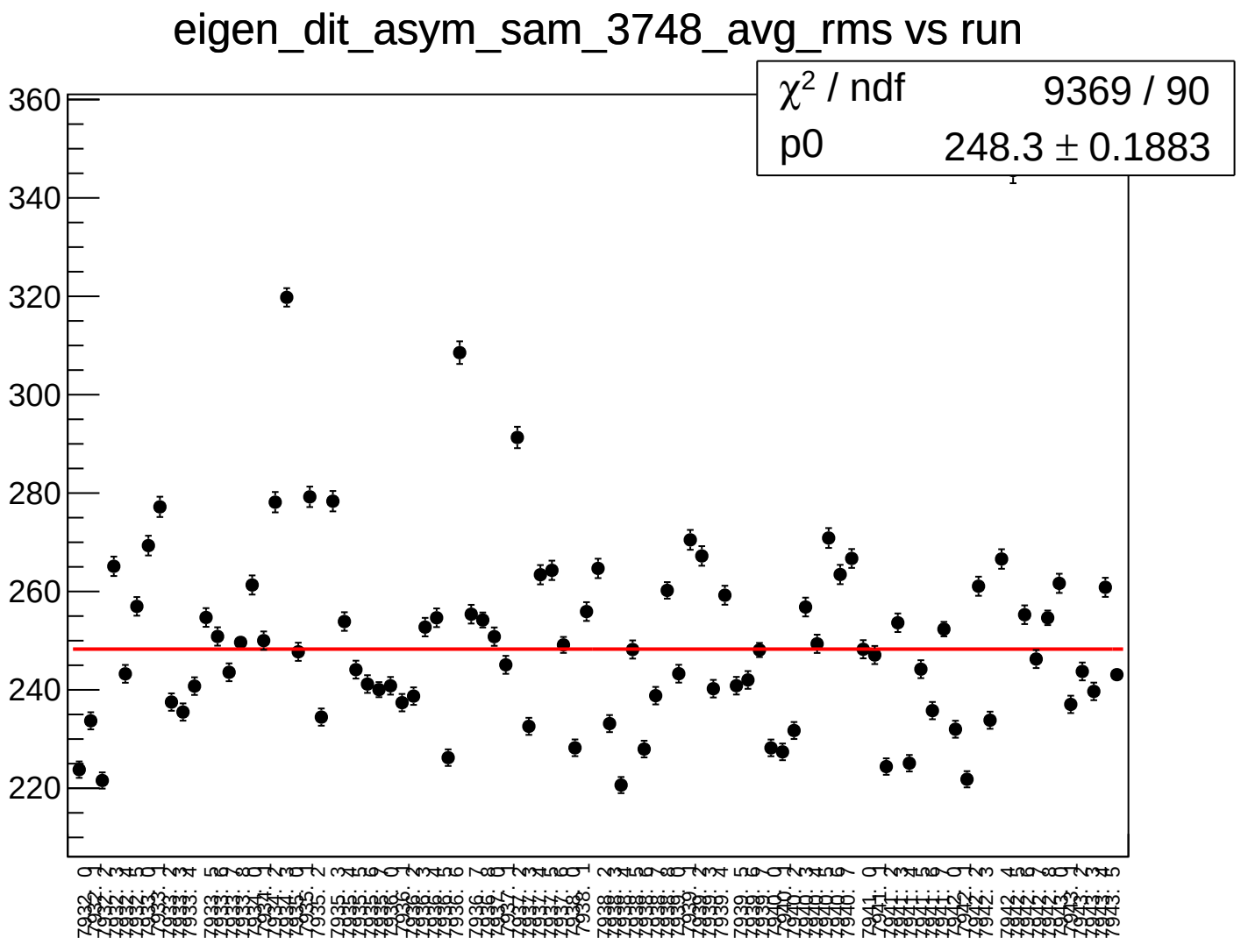

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 110.1 / 90
p0 −871.6 ± 2816
100
50
0
−50
−100
pull
Entries 91
Mean −25.54
Std Dev 0
2
1
0
−1
−2

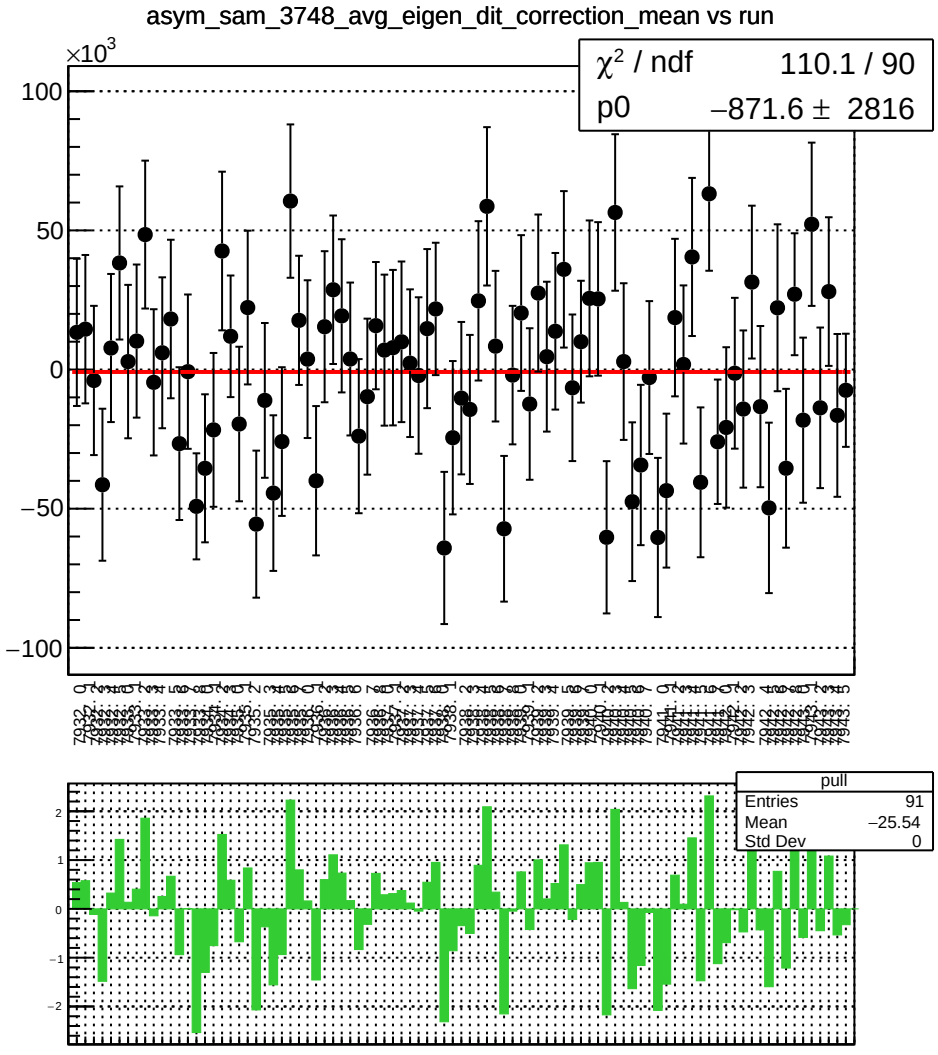

pull1D
Entries 91
Mean 0.007381
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

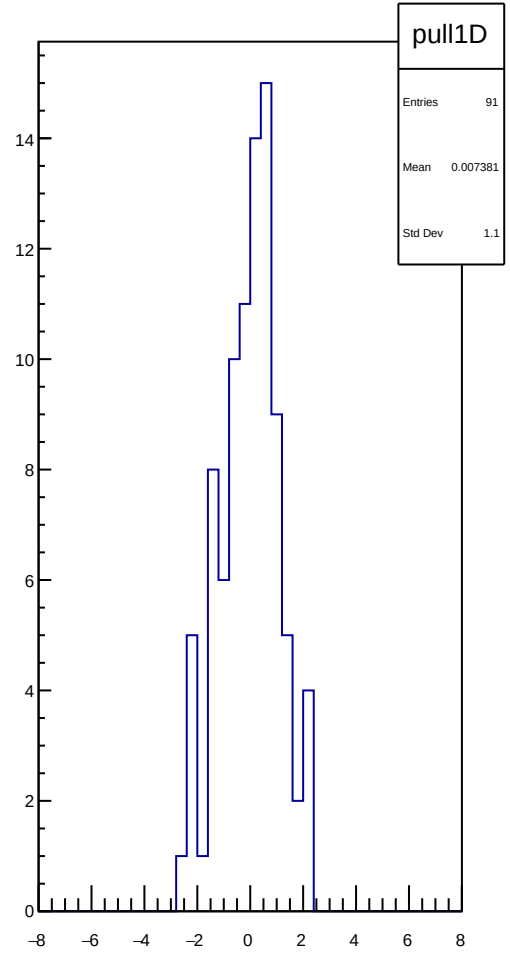

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1616 / 90
p0 2631 ± 1.991
2900
2800
2700
2600
2500

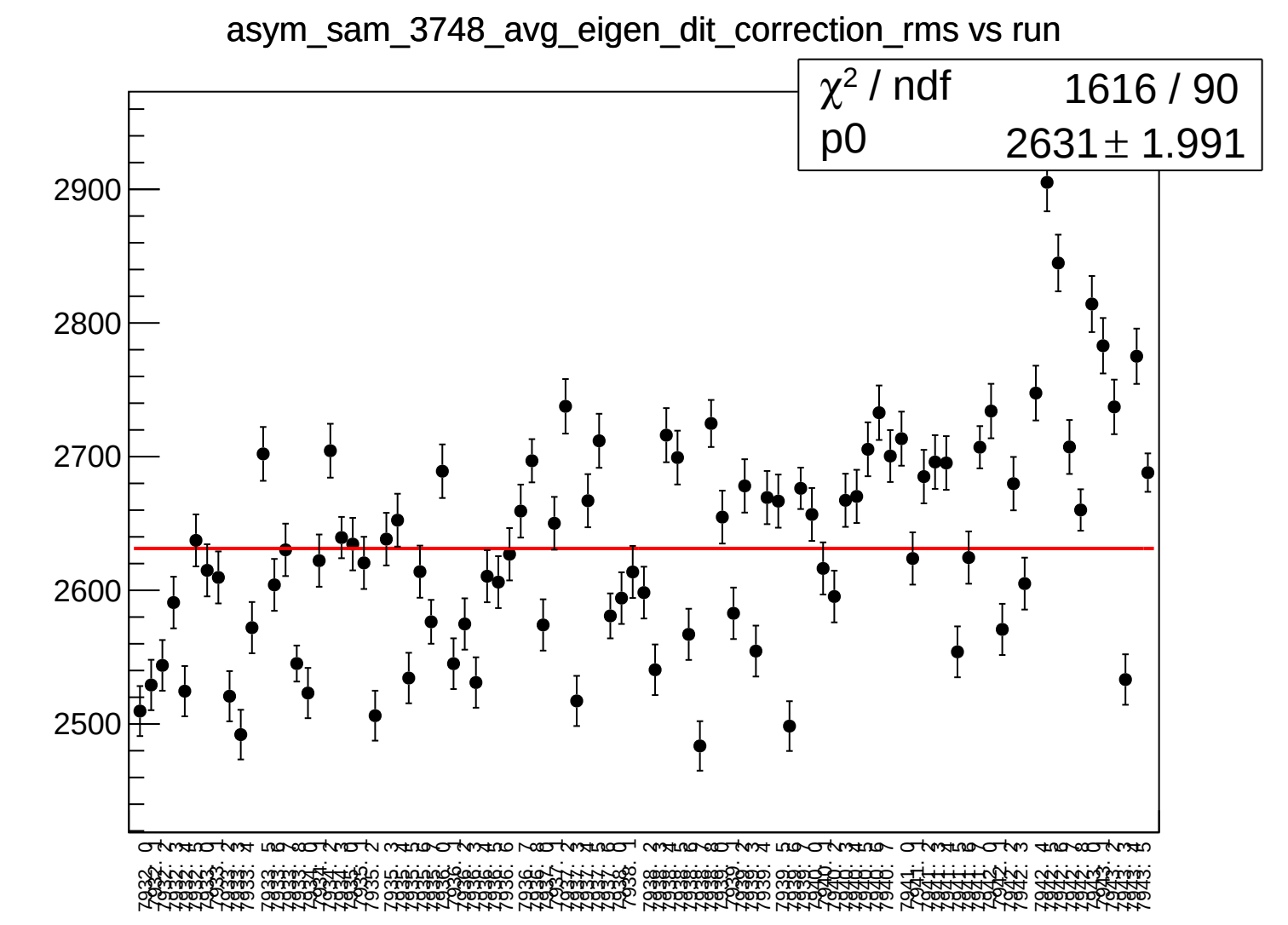

eigen_dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 100.5 / 90
p0 870.3 ± 266.3
pull
Entries 91
Mean 40.4
Std Dev 0

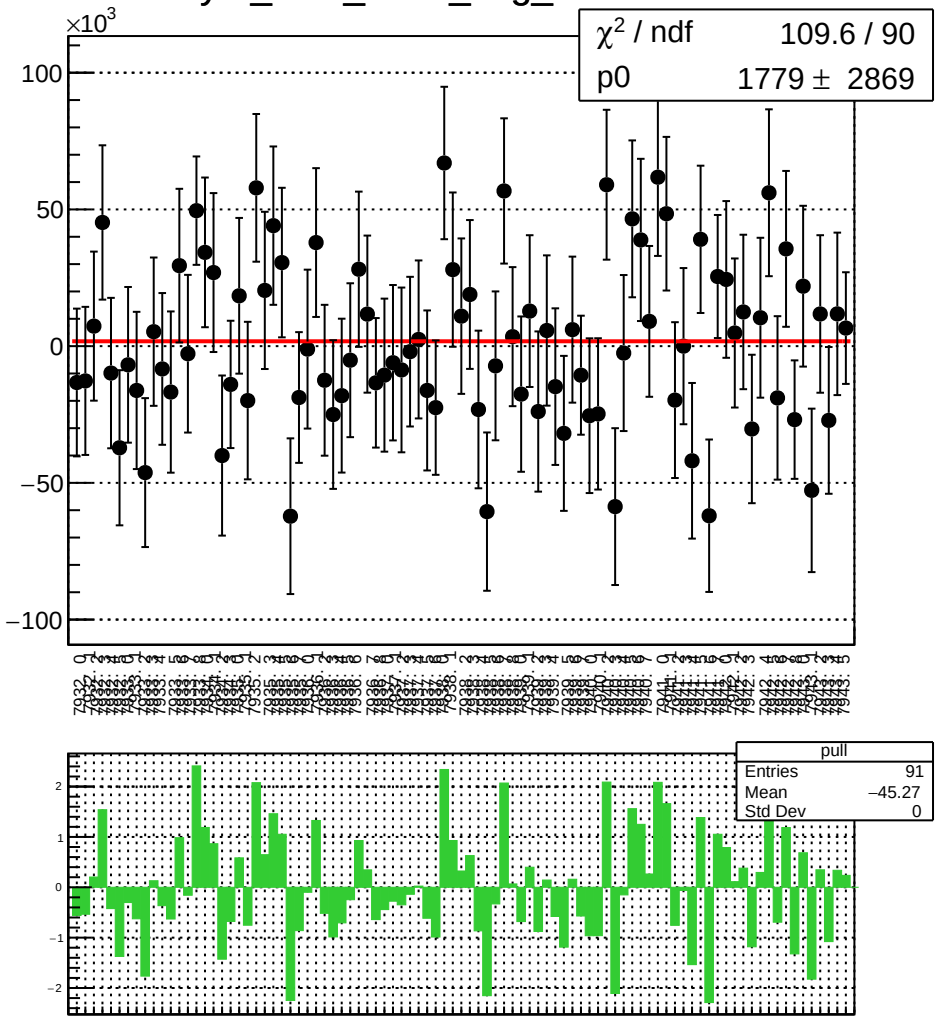

pull1D
Entries 91
Mean 0.01645
Std Dev 1.051

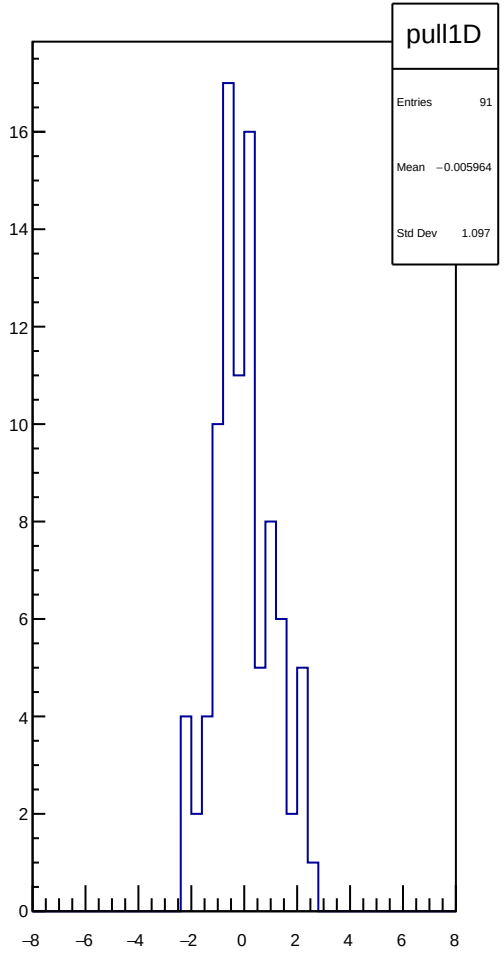

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 9369 / 90
p0 248.3 ± 0.1883
360
340
320
300
280
260
240
220

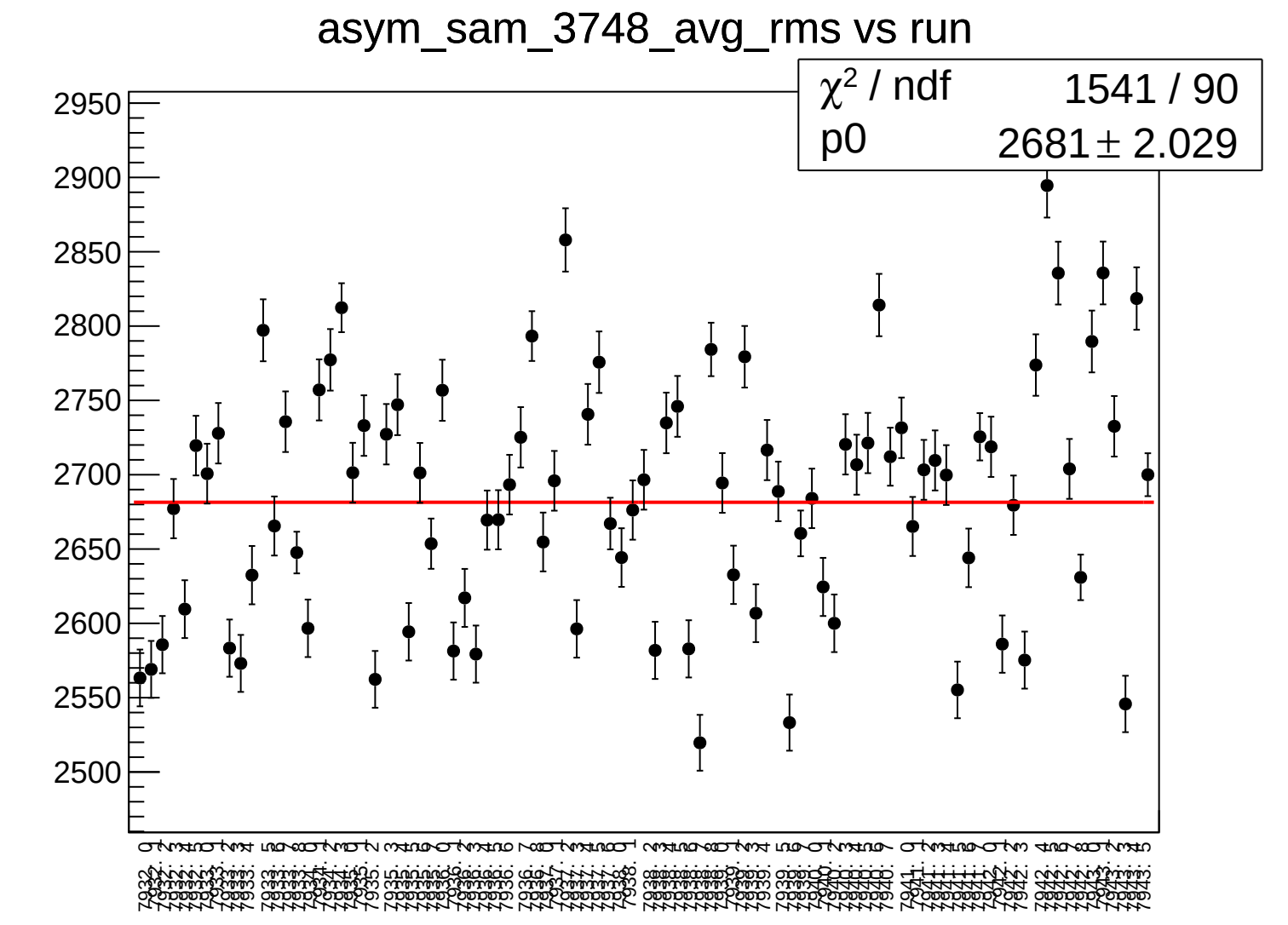

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 110.1 / 90
p0 −871.6 ± 2816
pull
Entries 91
Mean −25.54
Std Dev 0

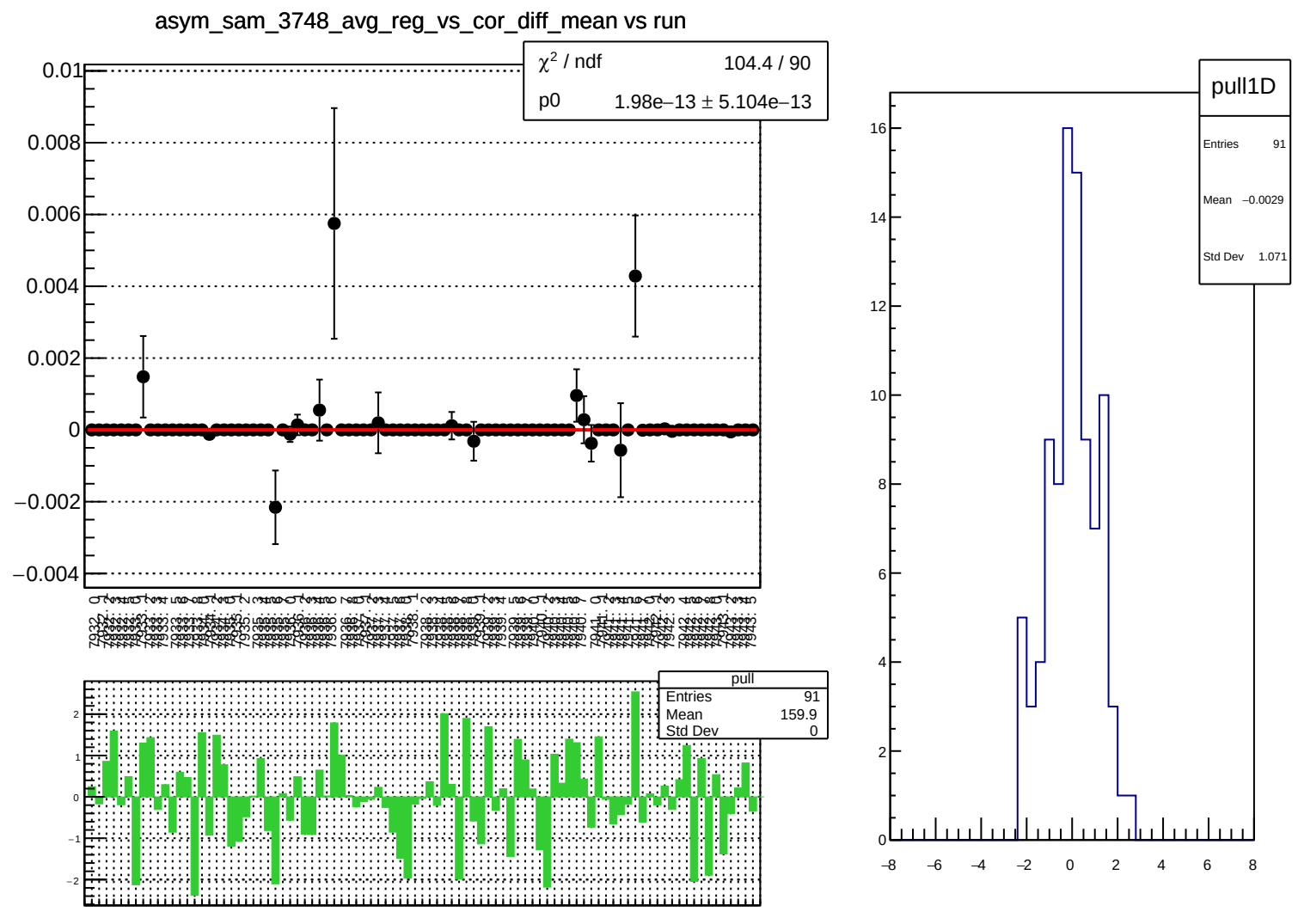

pull1D
Entries 91
Mean 0.007381
Std Dev 1.1

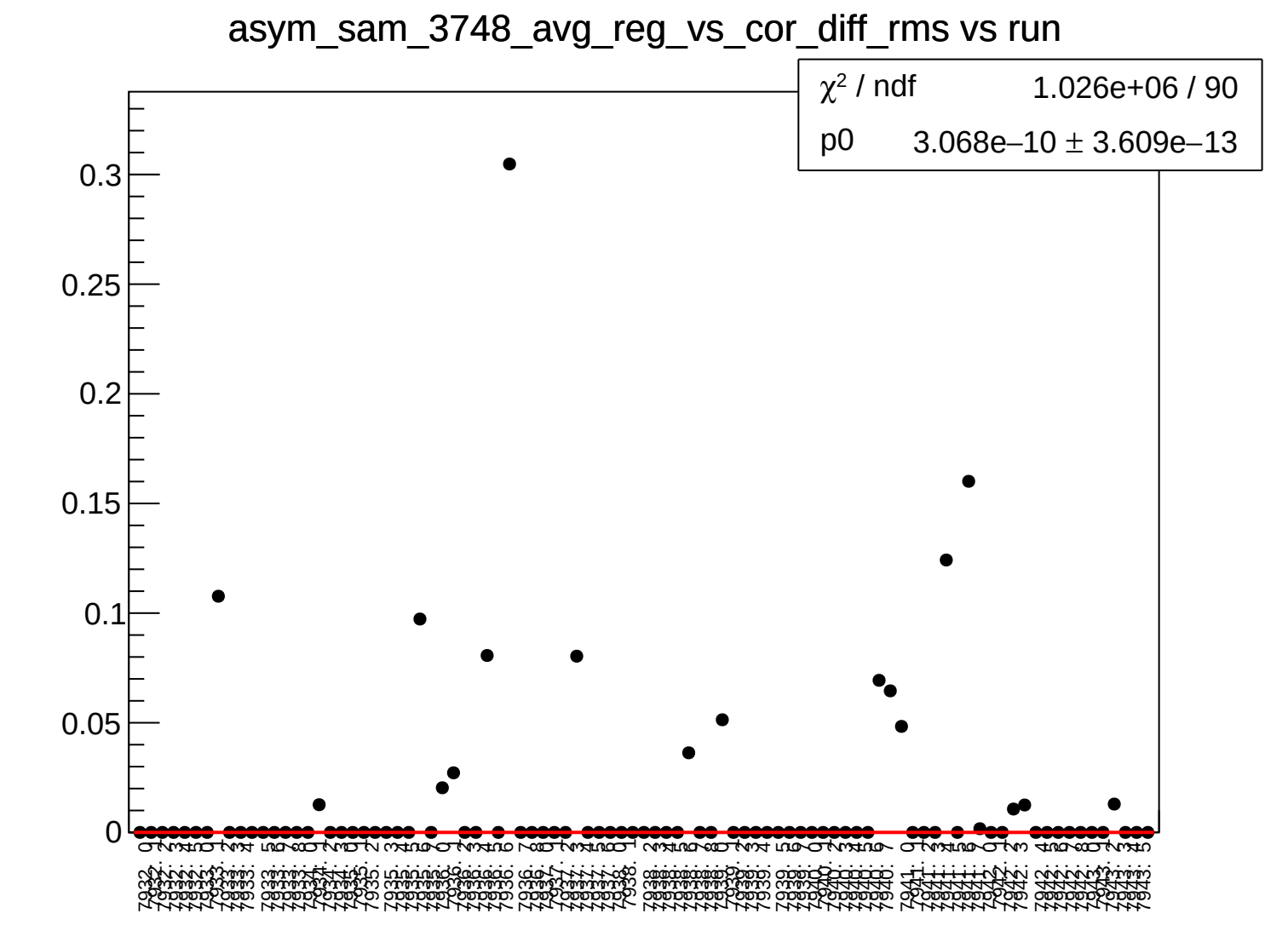

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1616 / 90
p0 2631 ± 1.991
2900
2800
2700
2600
2500

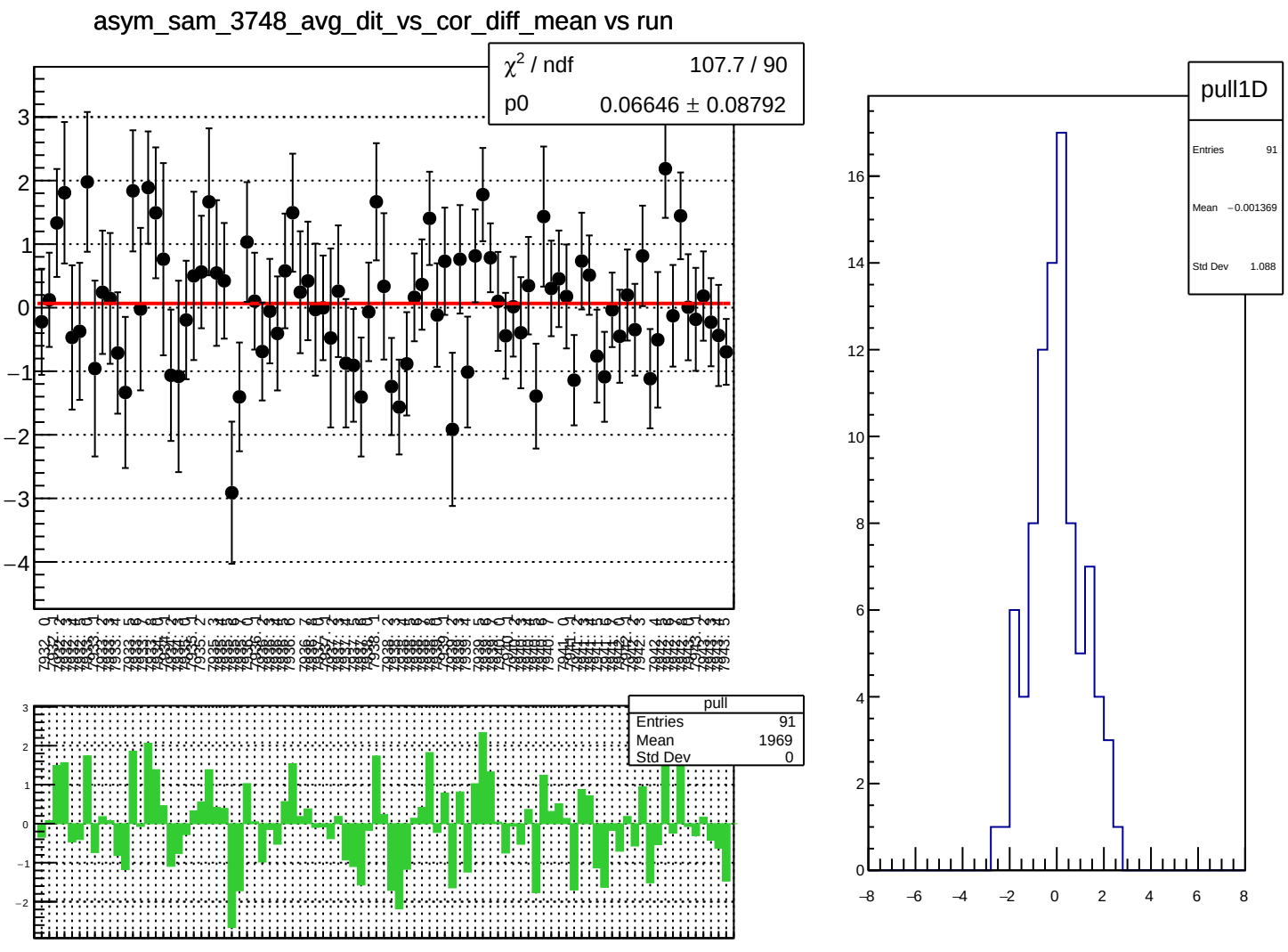

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 109.6 / 90
p0 1779 ± 2869
100
50
0
−50
−100
pull
Entries 91
Mean −45.27
Std Dev 0
2
1
0
−1
−2

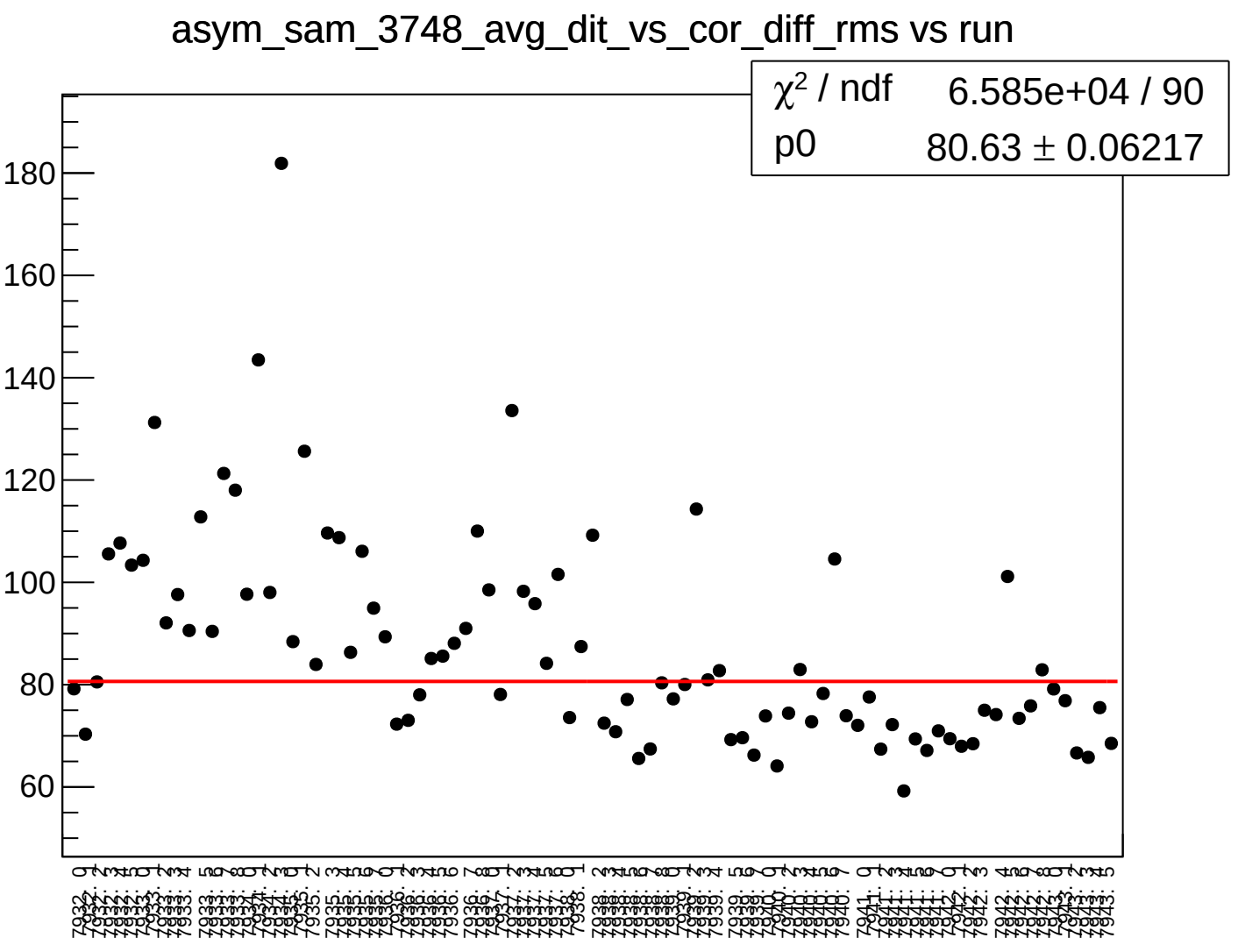

pull1D
Entries 91
Mean −0.005964
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

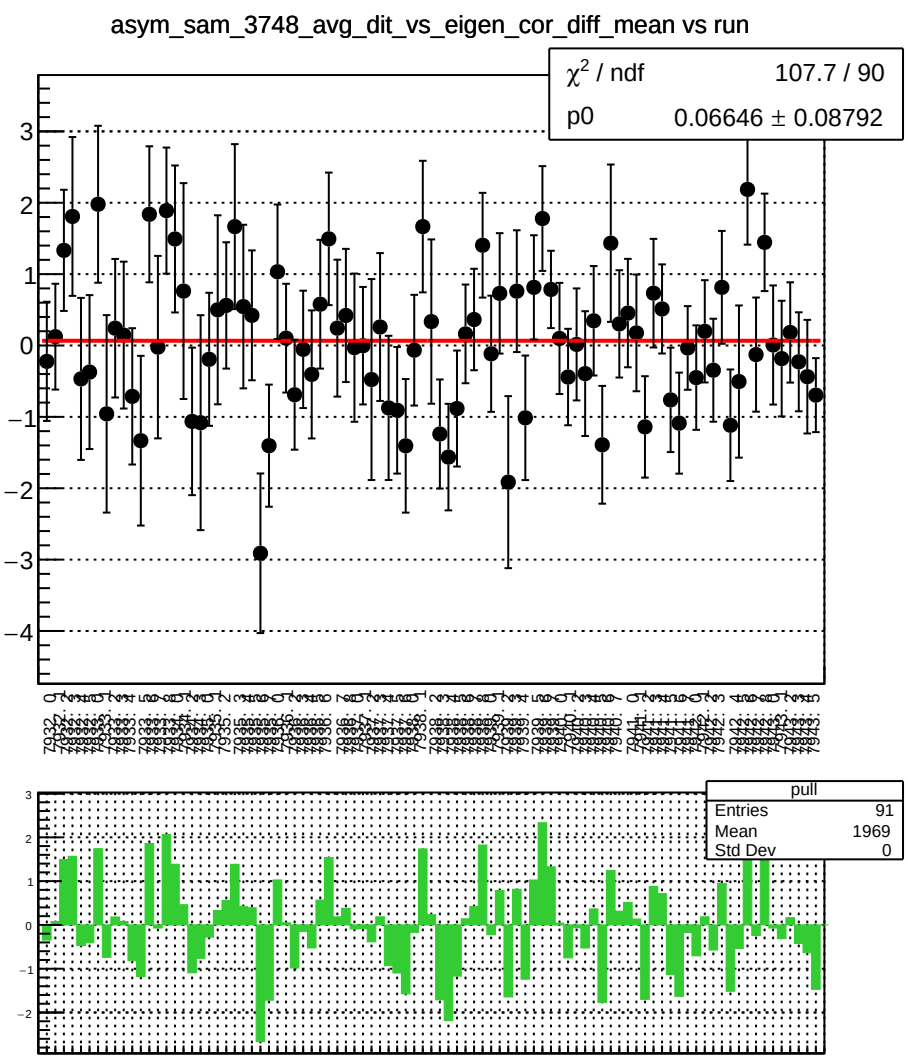

asym_sam_3748_avg_rms vs run
χ² / ndf 1541 / 90
p0 2681 ± 2.029
2950
2900
2850
2800
2750
2700
2650
2600
2550
2500

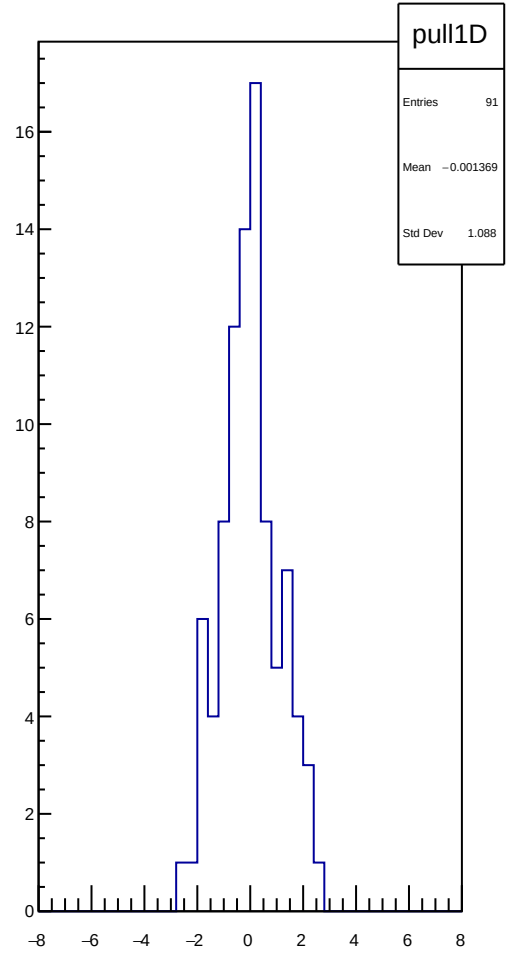

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 90
p0 1.98e−13 ± 5.104e−13
pull
Entries 91
Mean 159.9
Std Dev 0
pull1D
Entries 91
Mean −0.0029
Std Dev 1.071

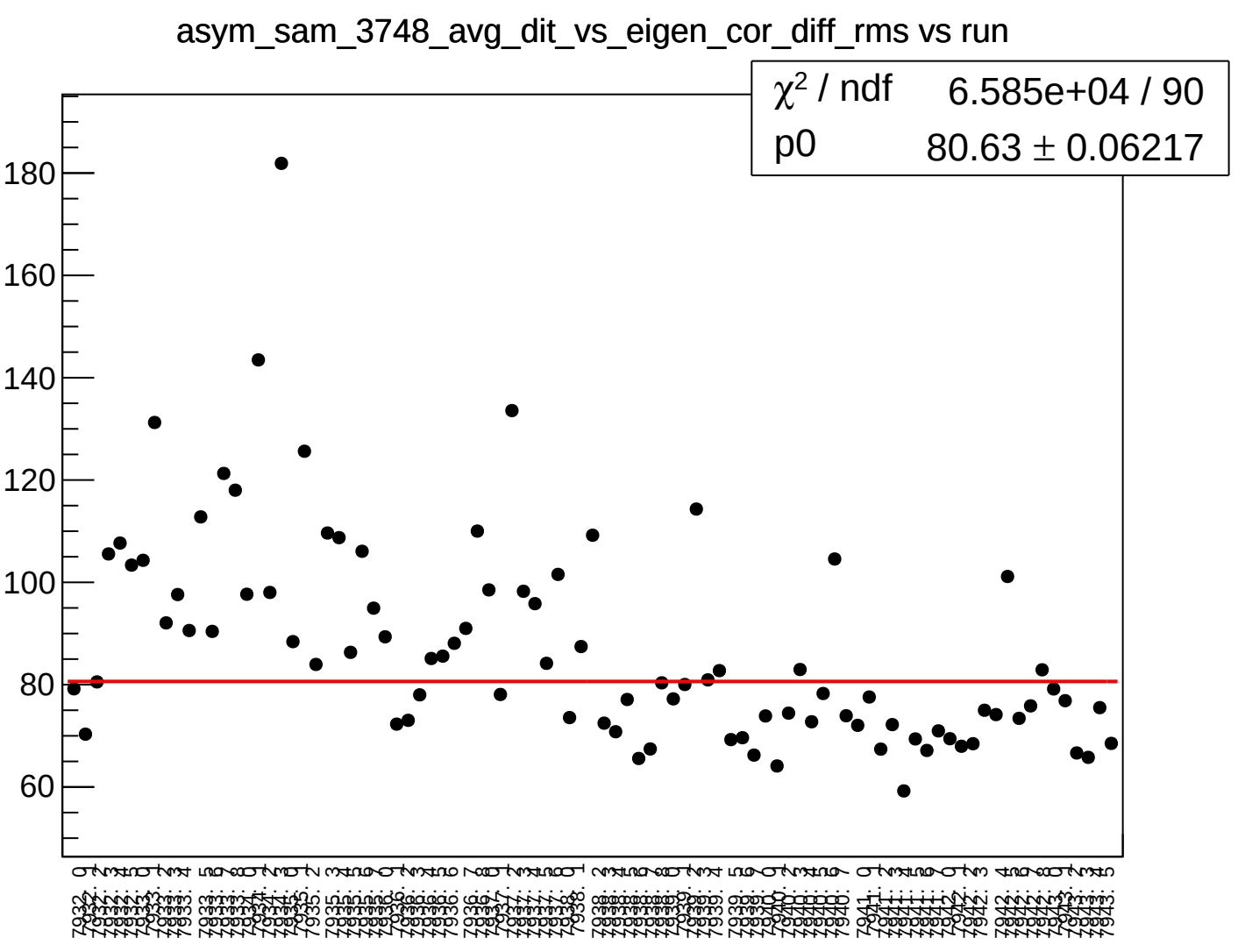

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 90
p0 3.068e−10 ± 3.609e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

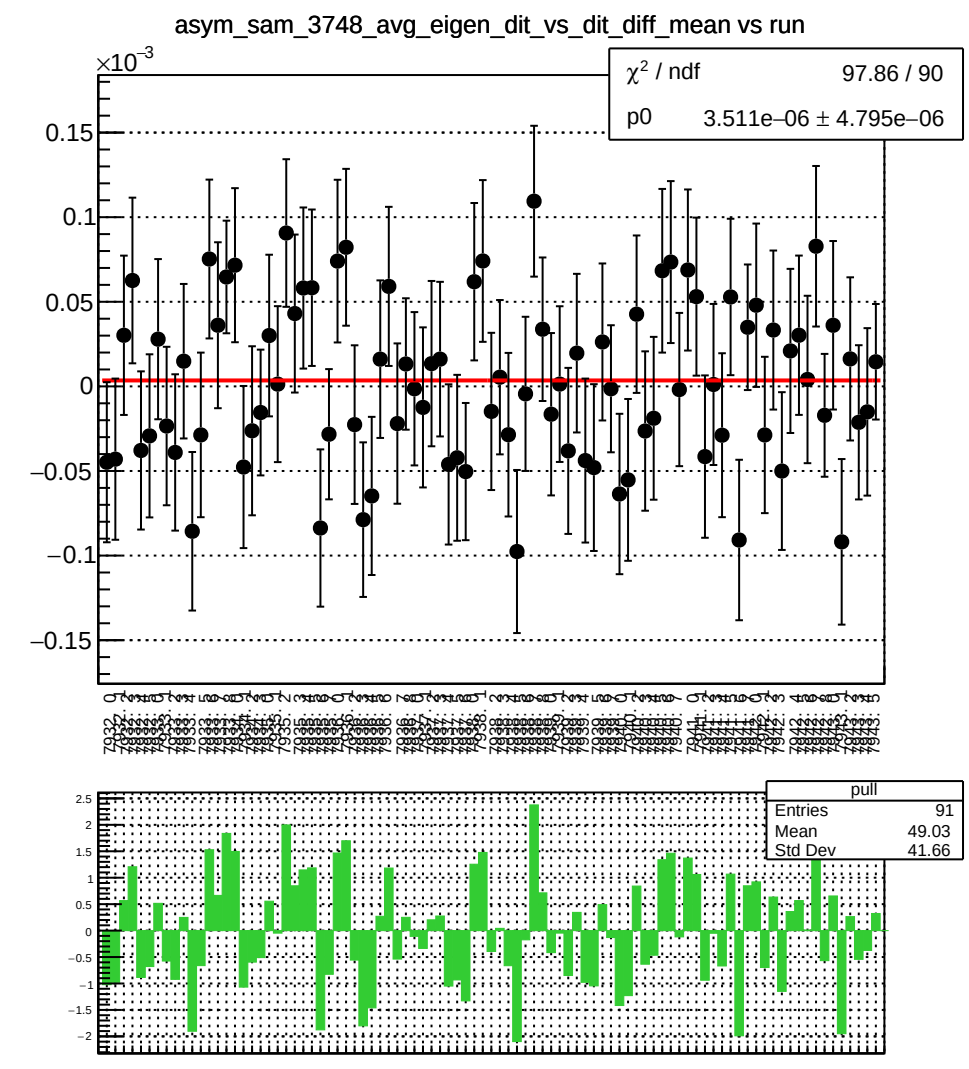

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.7 / 90
p0 0.06646 ± 0.08792
pull
Entries 91
Mean 1969
Std Dev 0
pull1D
Entries 91
Mean −0.001369
Std Dev 1.088

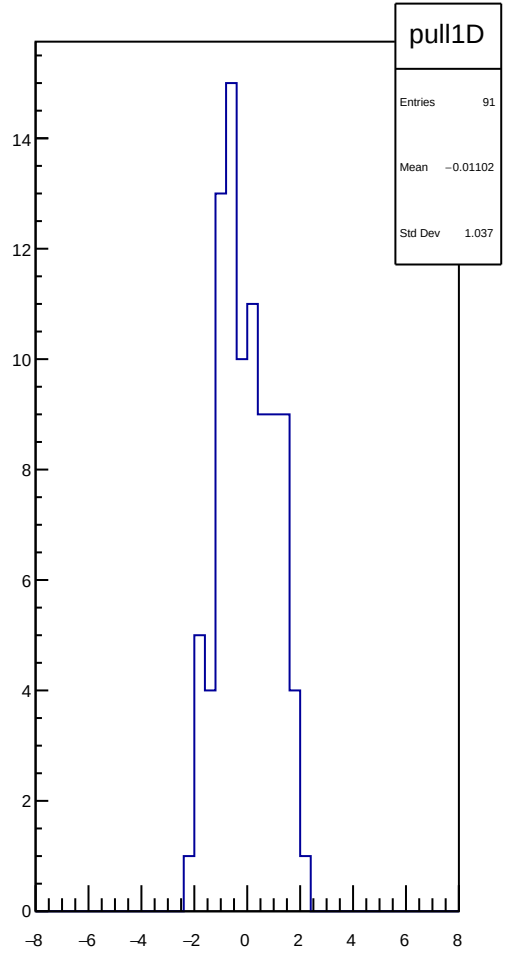

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.585e+04 / 90
p0 80.63 ± 0.06217
180
160
140
120
100
80
60

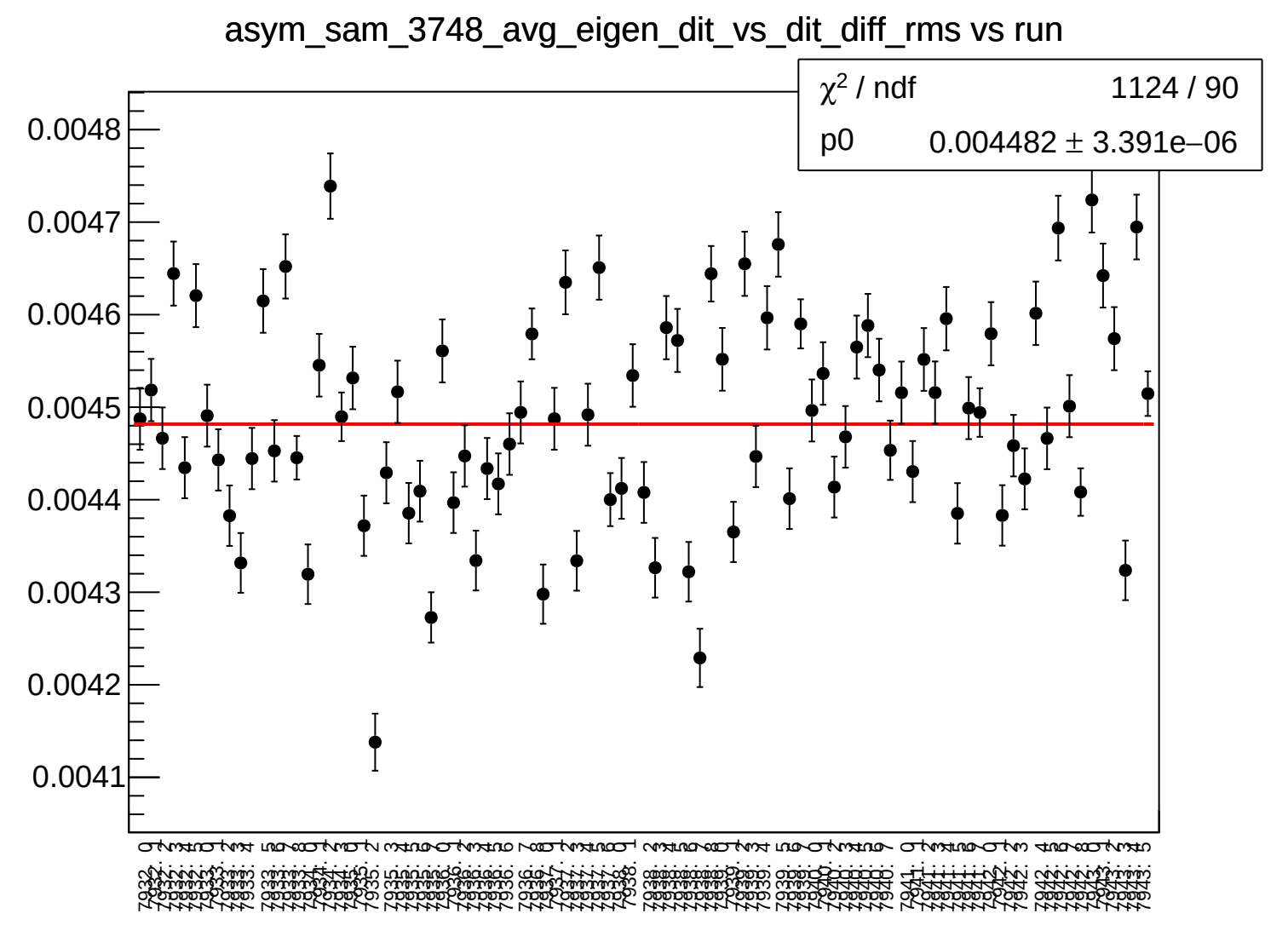

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.7 / 90
p0 0.06646 ± 0.08792
pull
Entries 91
Mean 1969
Std Dev 0

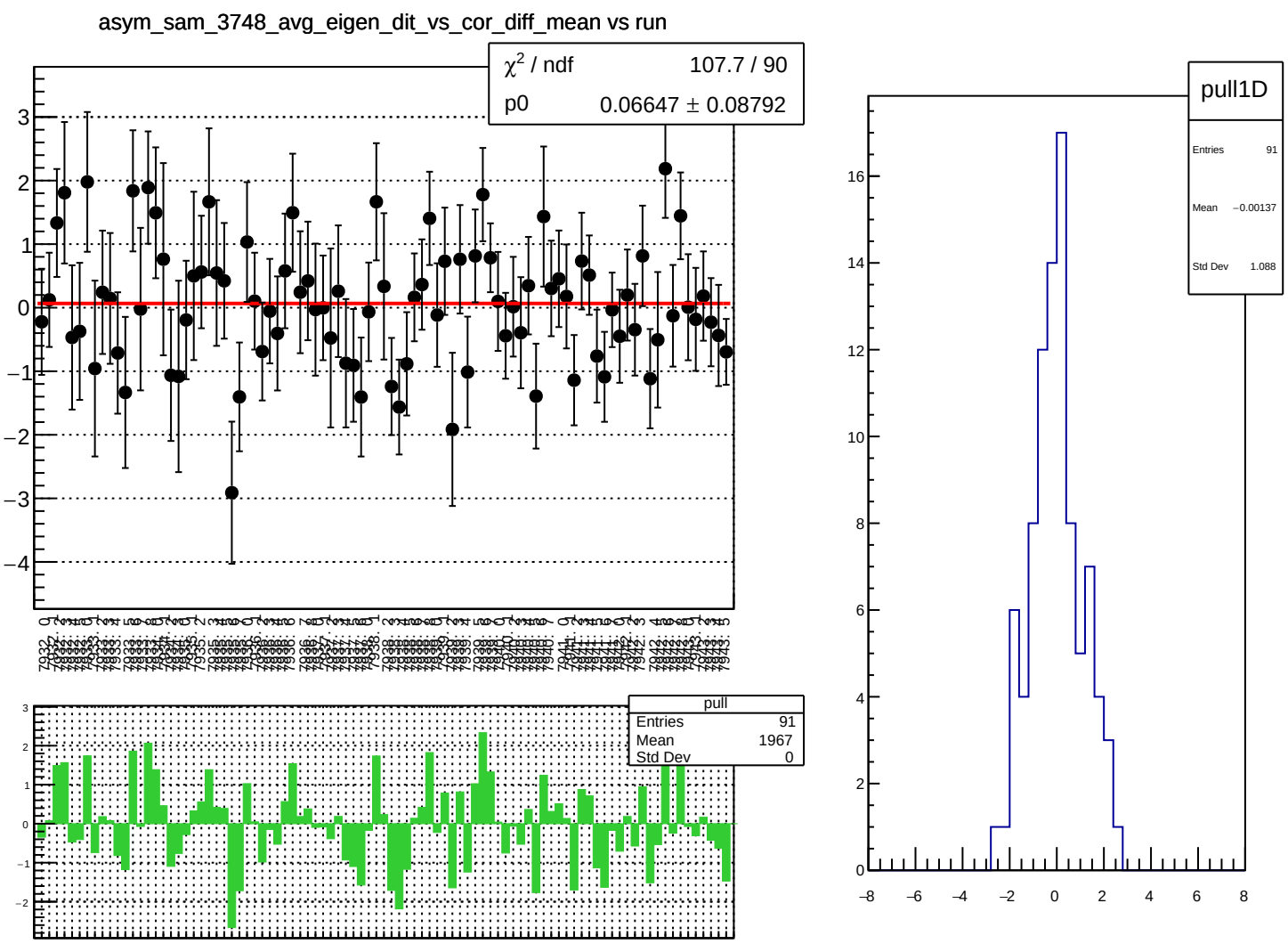

pull1D
Entries 91
Mean −0.001369
Std Dev 1.088

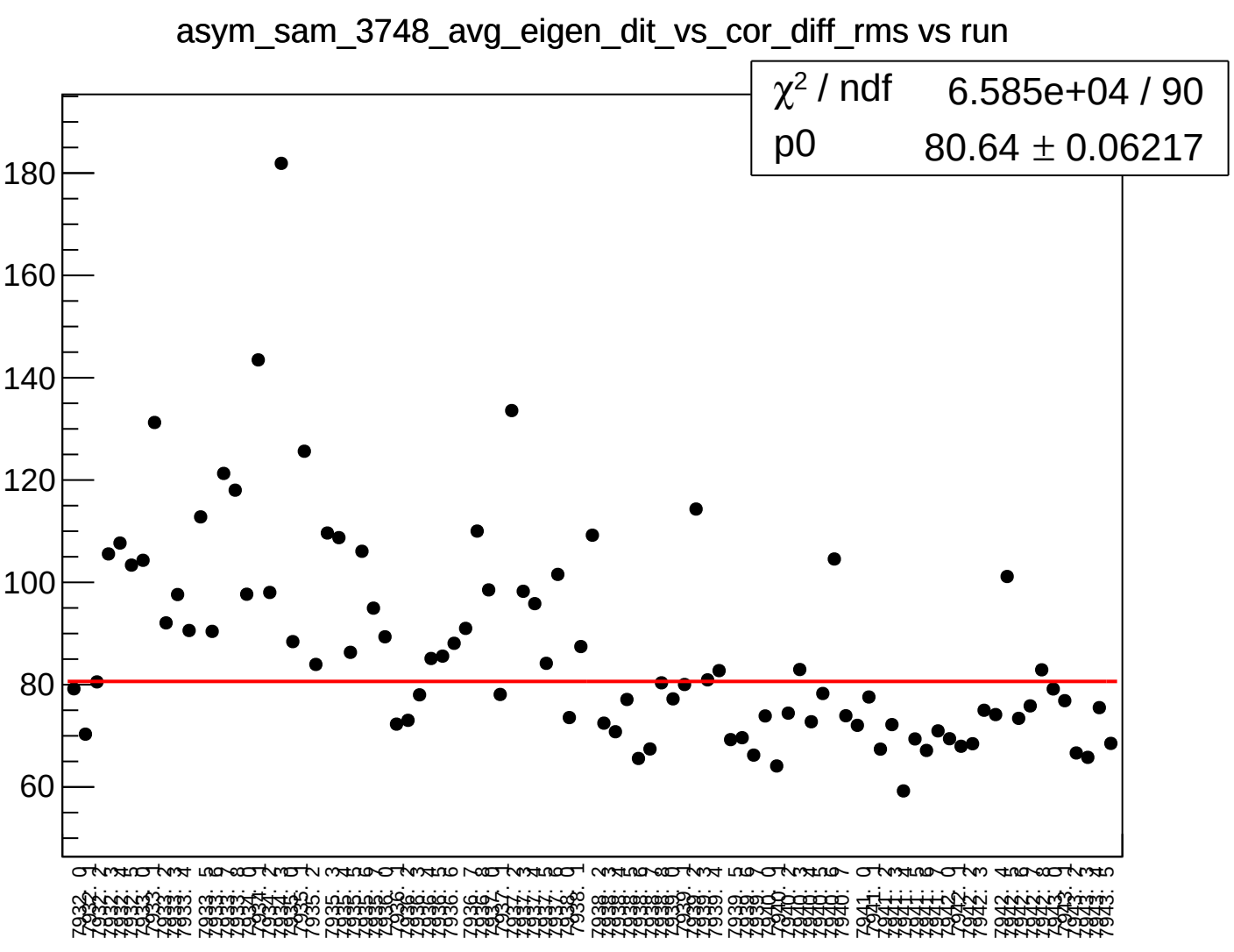

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.585e+04 / 90
p0 80.63 ± 0.06217
180
160
140
120
100
80
60

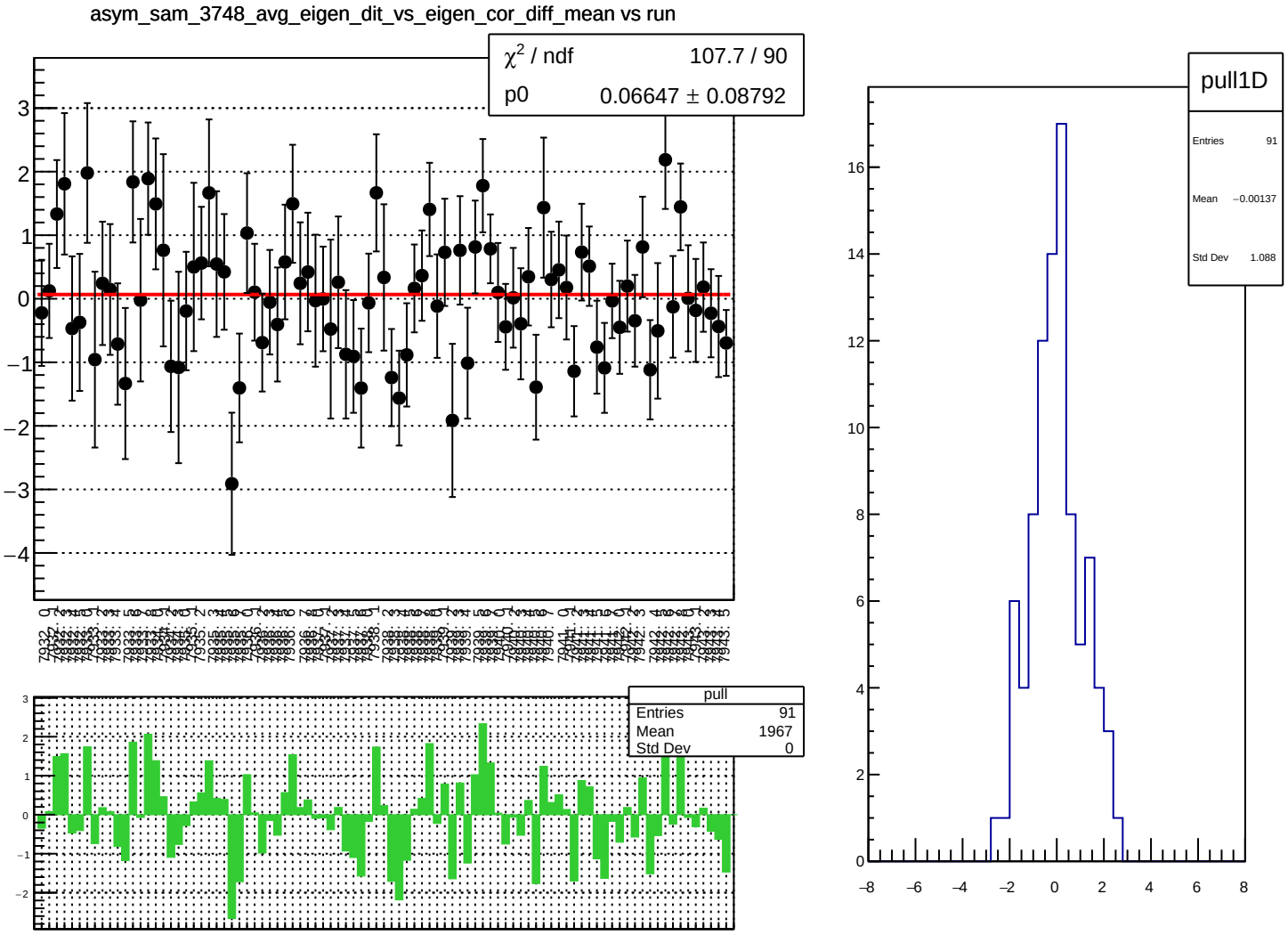

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.86 / 90
p0 3.511e−06 ± 4.795e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 49.03
Std Dev 41.66
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

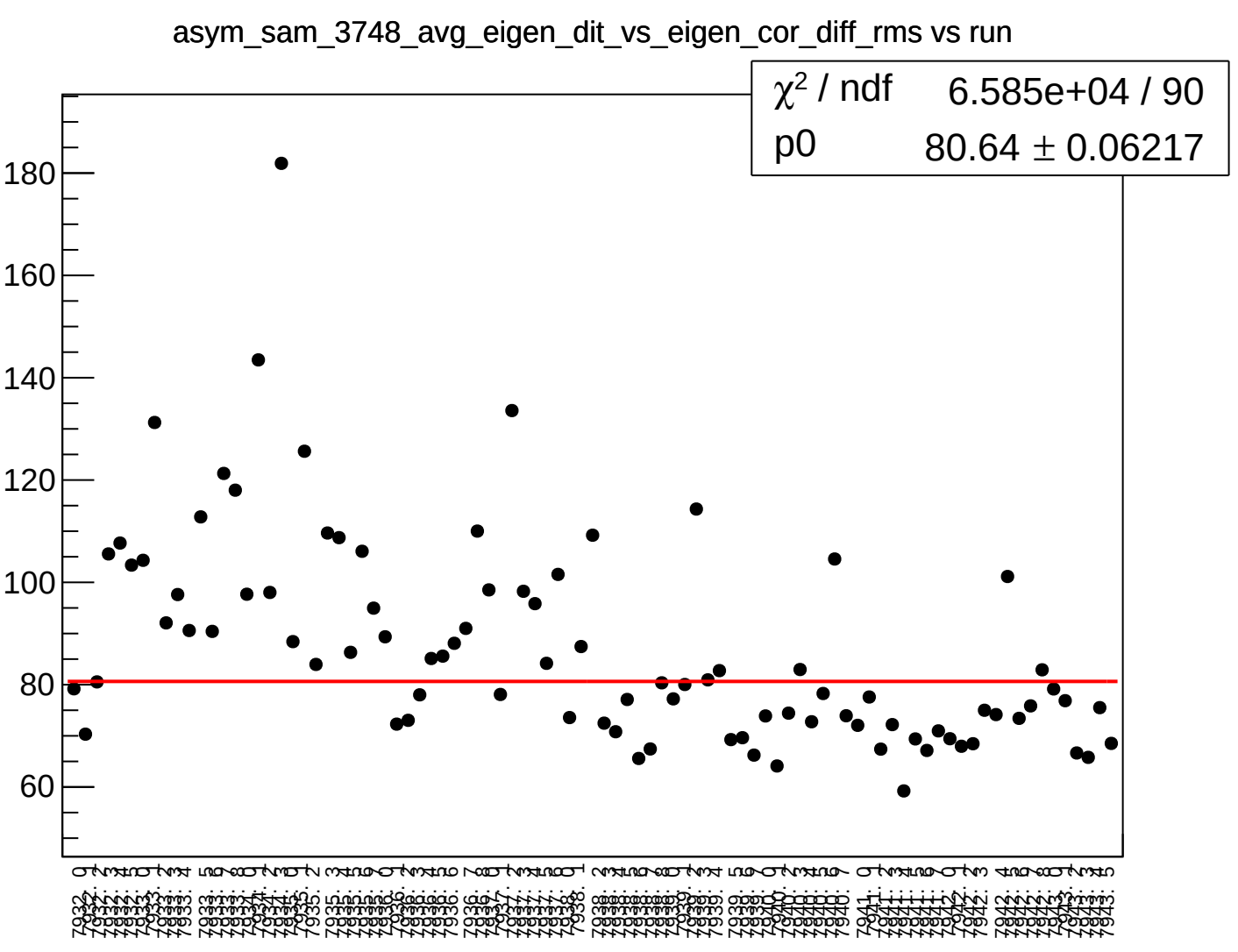

pull1D
Entries 91
Mean −0.01102
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

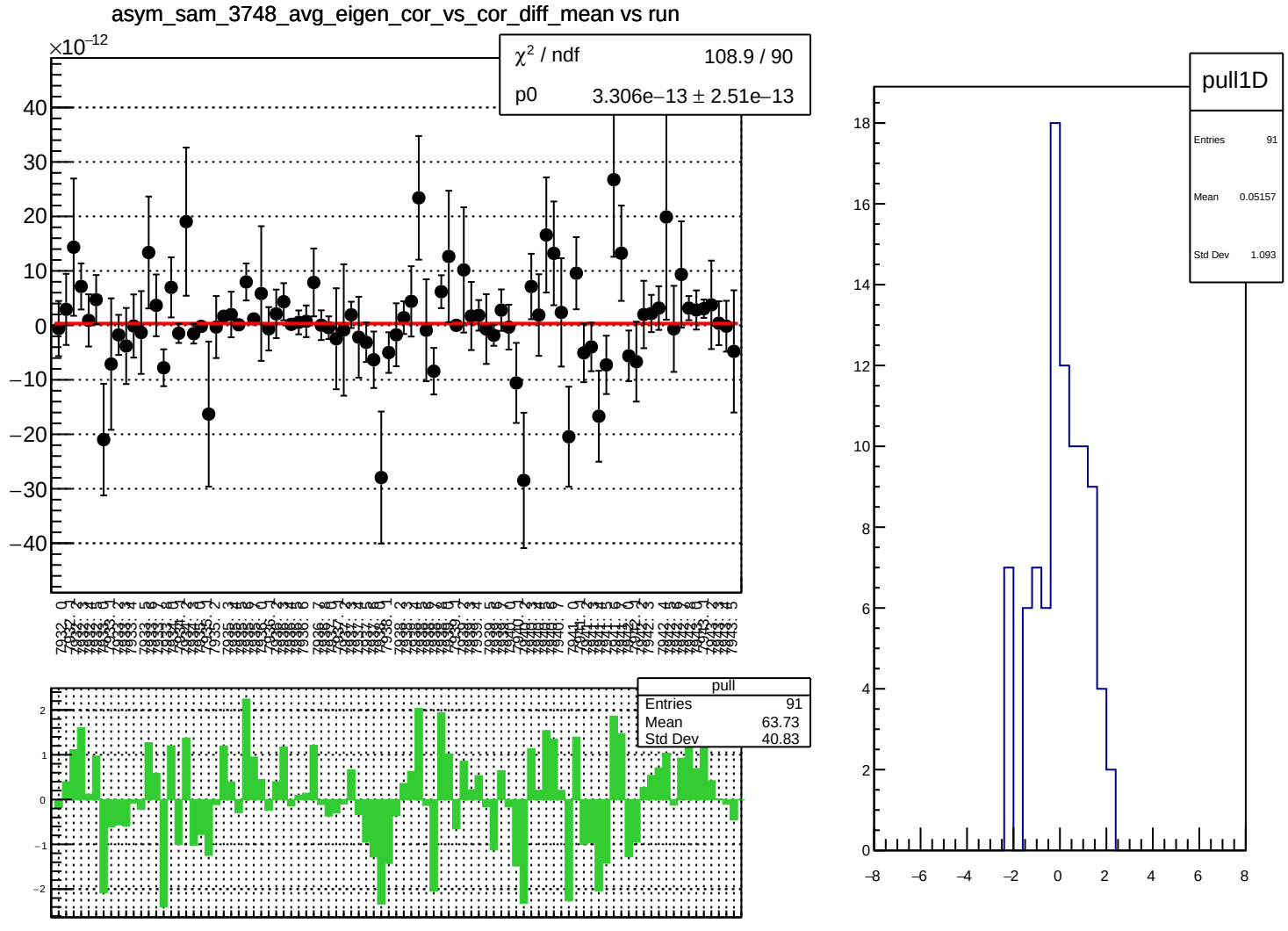

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1124 / 90
p0 0.004482 ± 3.391e−06
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041

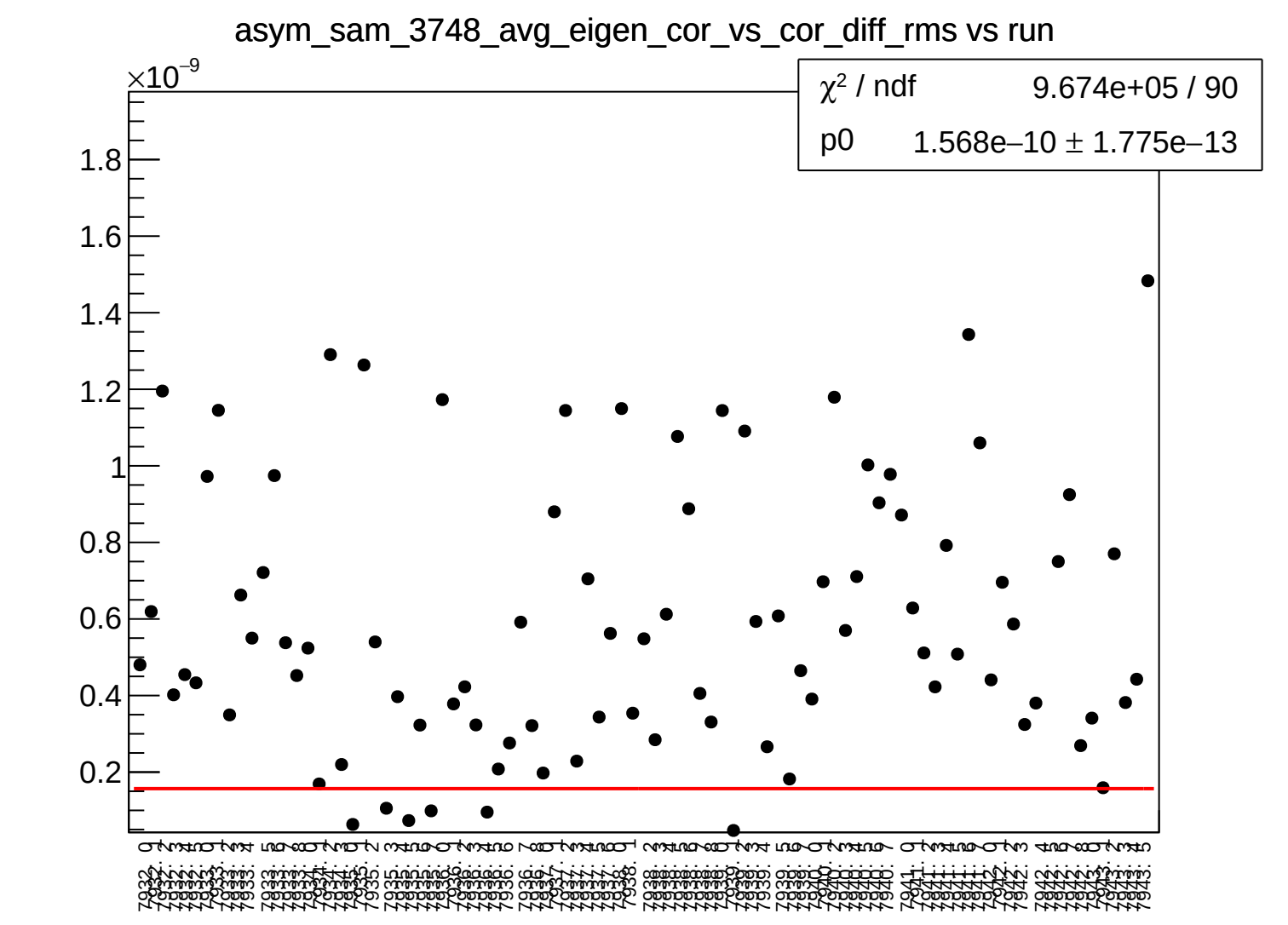

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.7 / 90
p0 0.06647 ± 0.08792
pull
Entries 91
Mean 1967
Std Dev 0
pull1D
Entries 91
Mean −0.00137
Std Dev 1.088

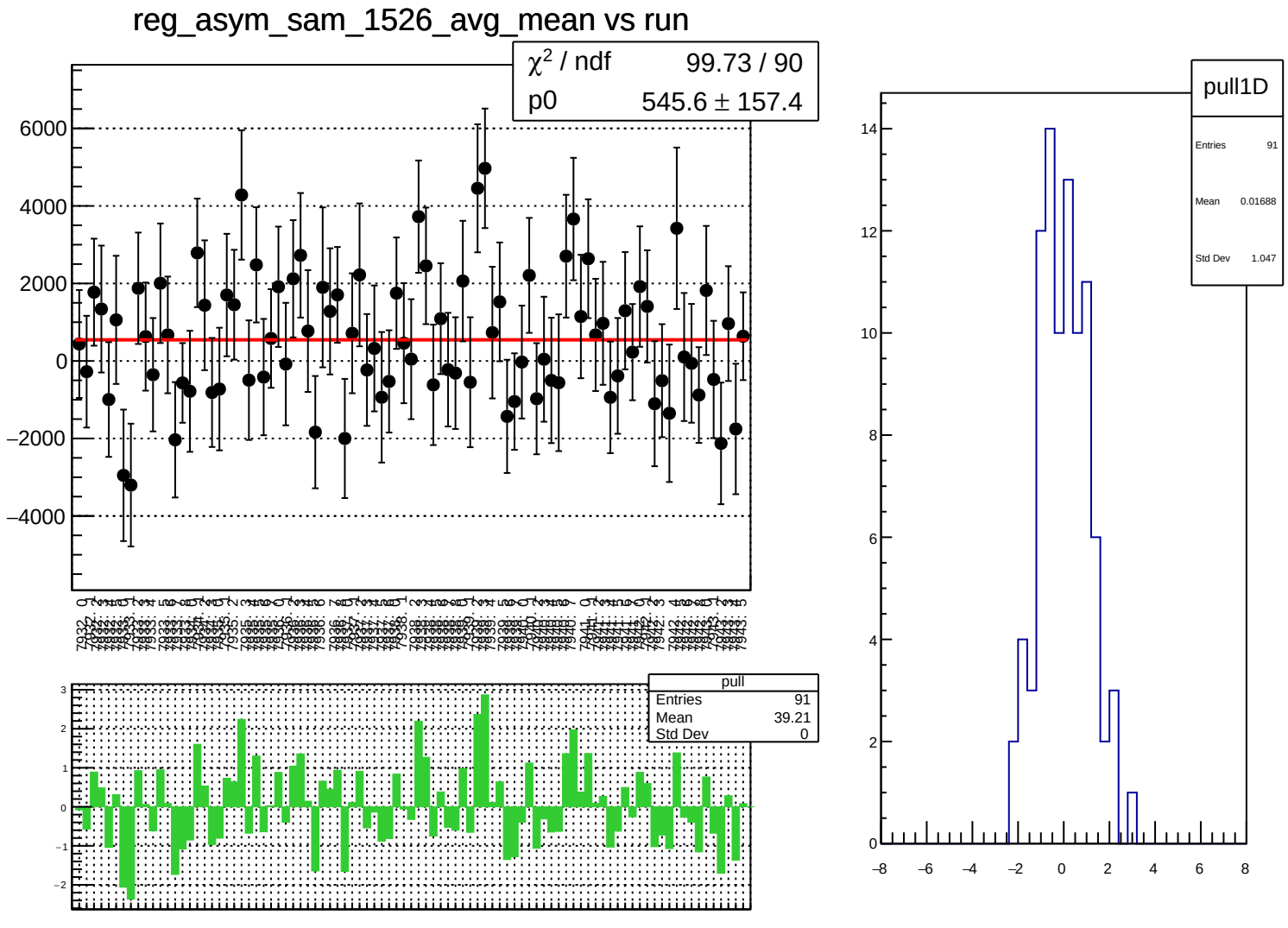

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.585e+04 / 90
p0 80.64 ± 0.06217
180
160
140
120
100
80
60

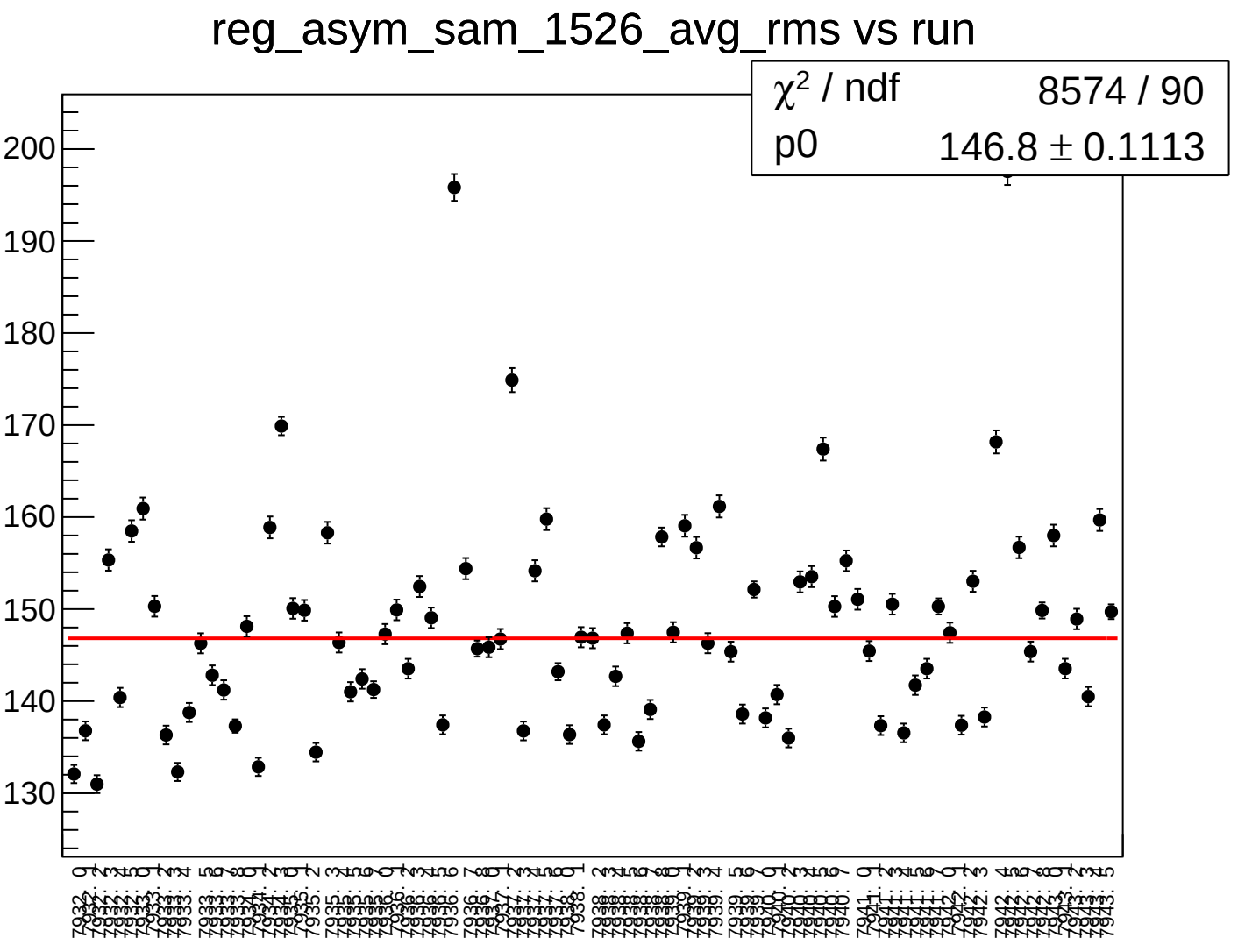

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.7 / 90
p0 0.06647 ± 0.08792
pull
Entries 91
Mean 1967
Std Dev 0
pull1D
Entries 91
Mean −0.00137
Std Dev 1.088

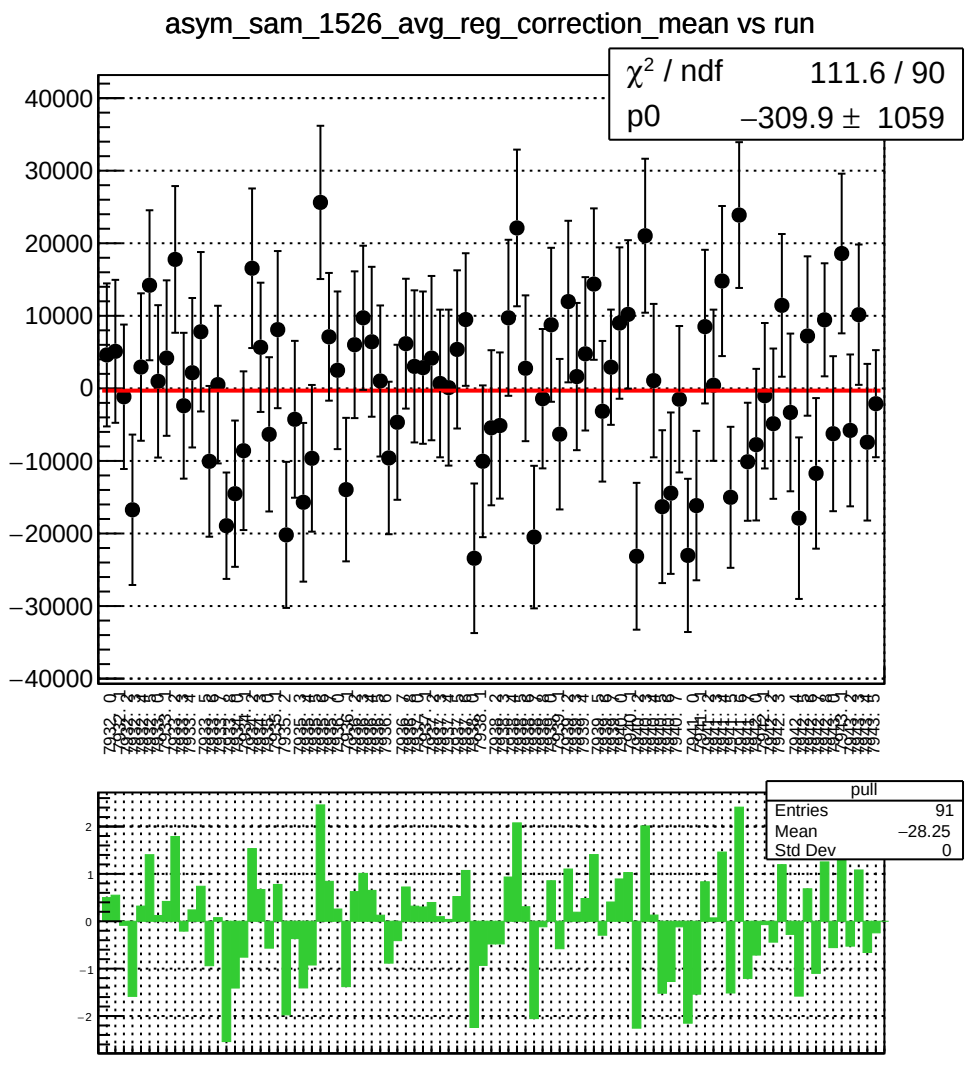

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.585e+04 / 90
p0 80.64 ± 0.06217
180
160
140
120
100
80
60

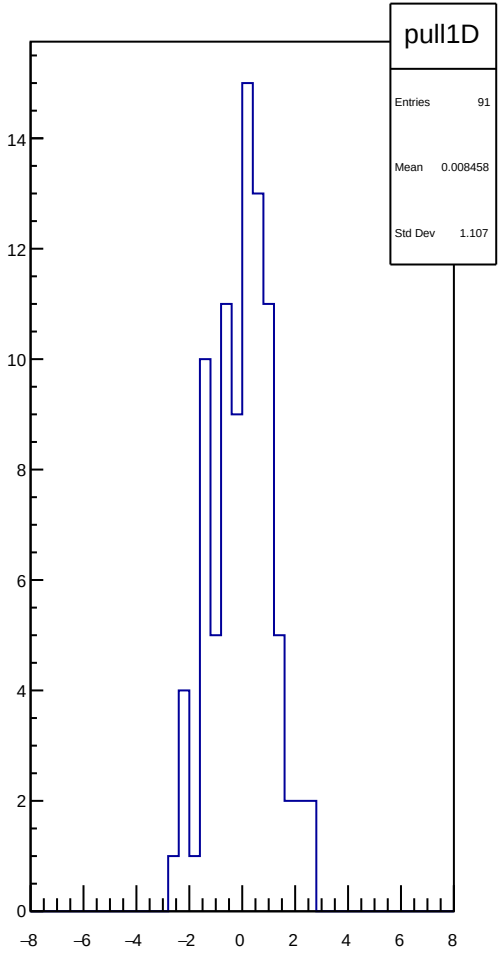

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.9 / 90
p0 3.306e−13 ± 2.51e−13
pull
Entries 91
Mean 63.73
Std Dev 40.83
pull1D
Entries 91
Mean 0.05157
Std Dev 1.093

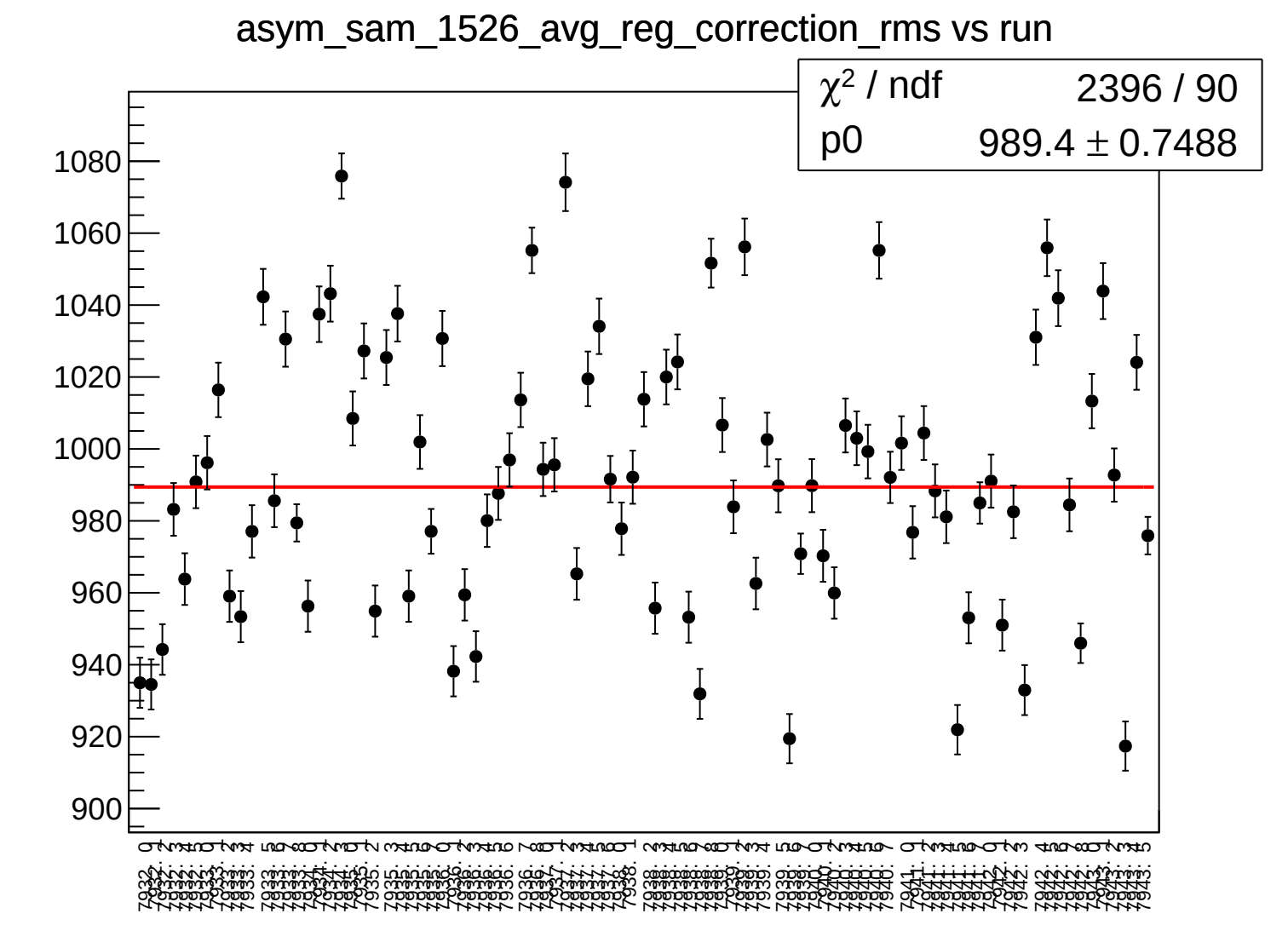

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.674e+05 / 90
p0 1.568e−10 ± 1.775e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

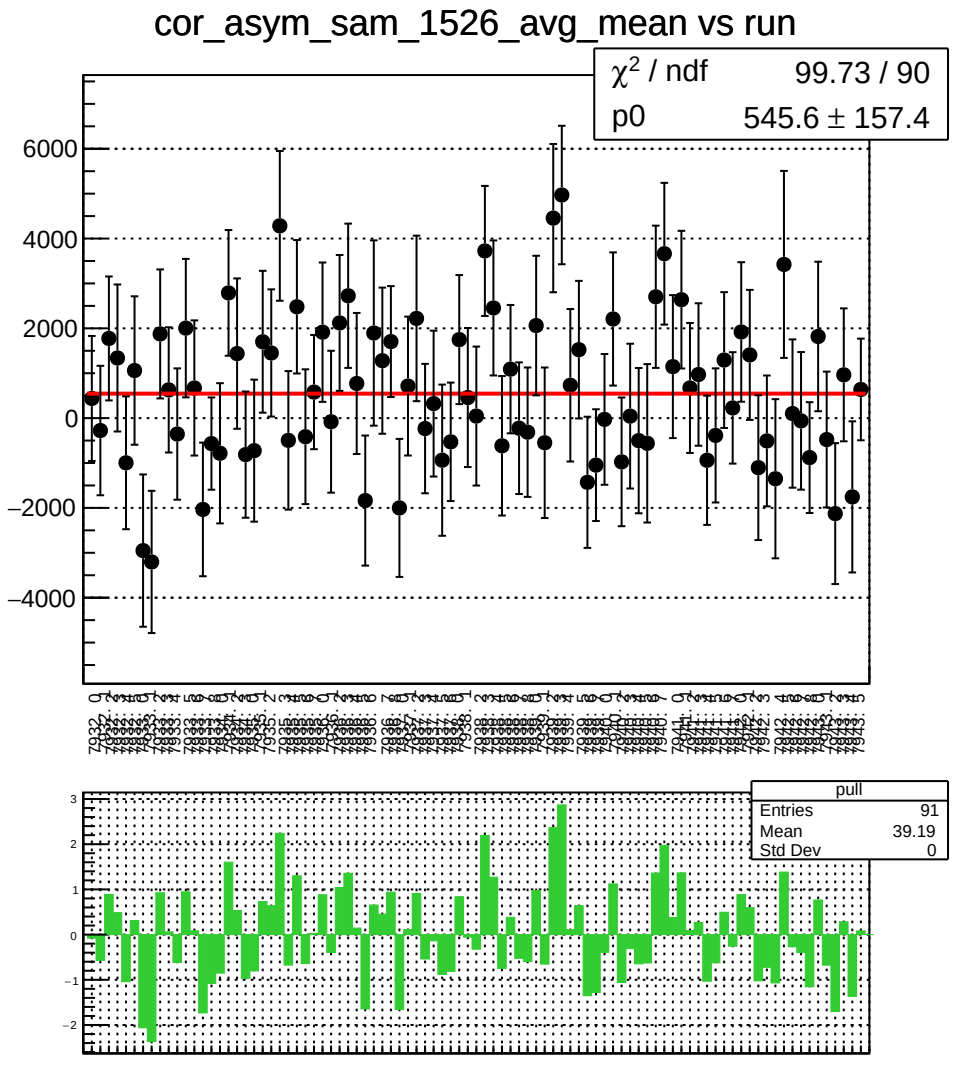

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 99.73 / 90
p0 545.6 ± 157.4
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 39.21
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01688
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

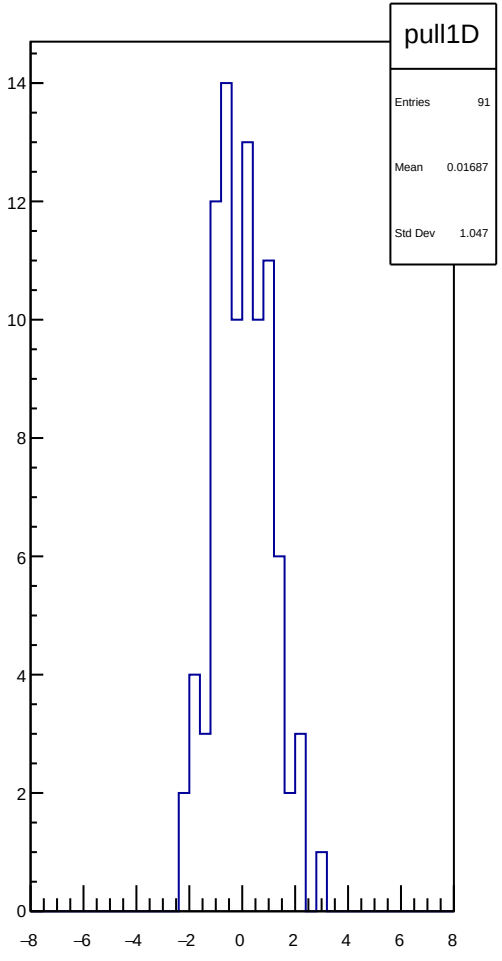

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 8574 / 90
p0 146.8 ± 0.1113
200
190
180
170
160
150
140
130

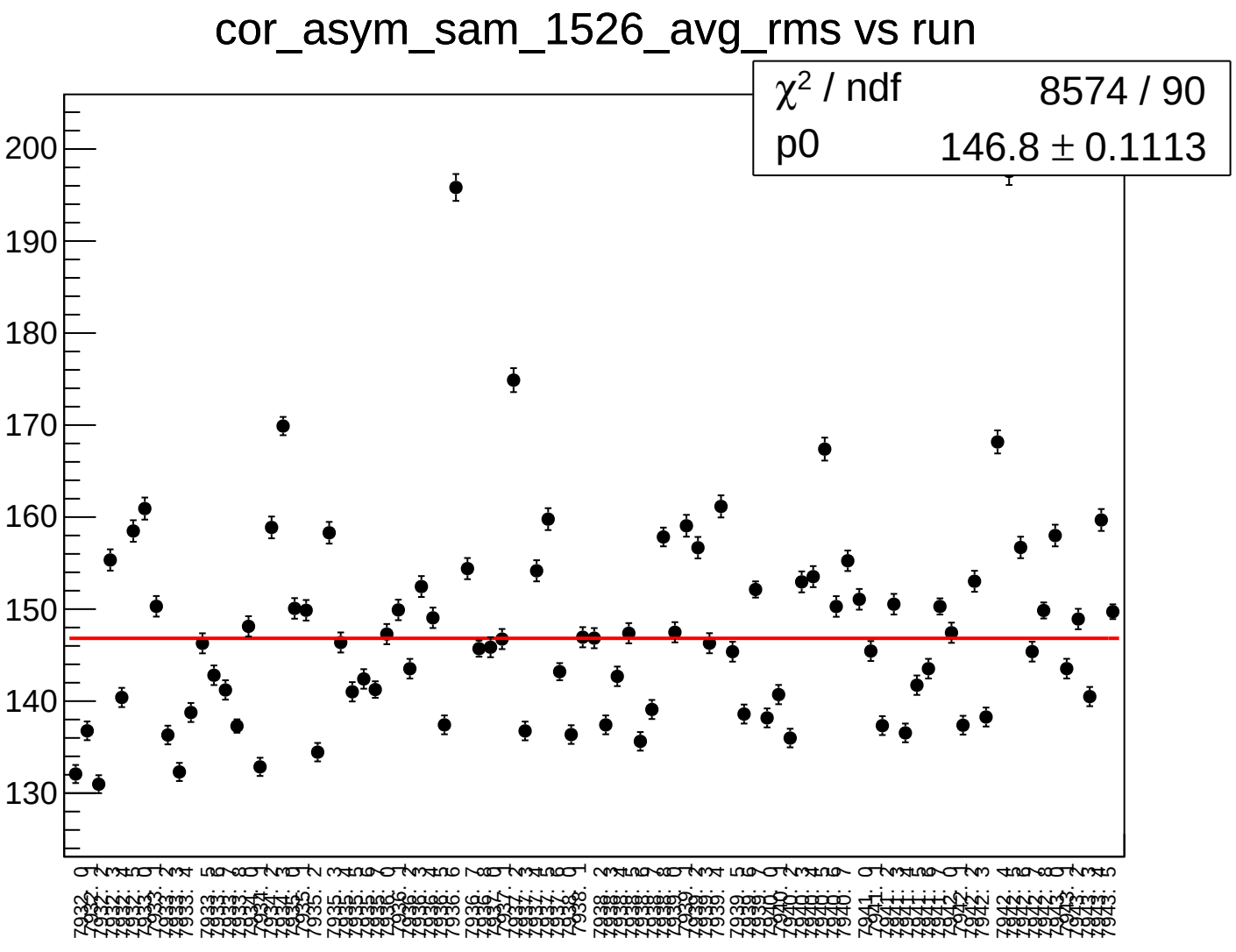

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 111.6 / 90
p0 −309.9 ± 1059
pull
Entries 91
Mean −28.25
Std Dev 0

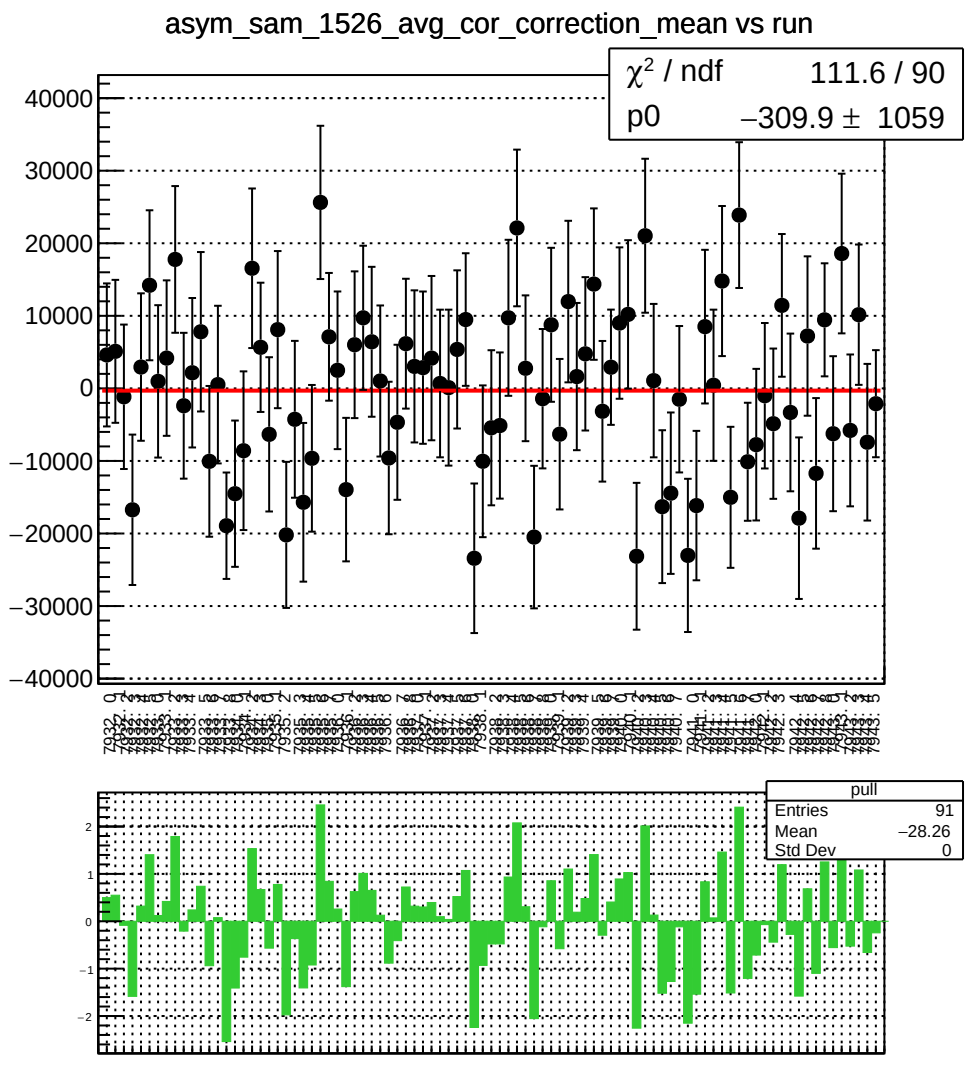

pull1D
Entries 91
Mean 0.008458
Std Dev 1.107

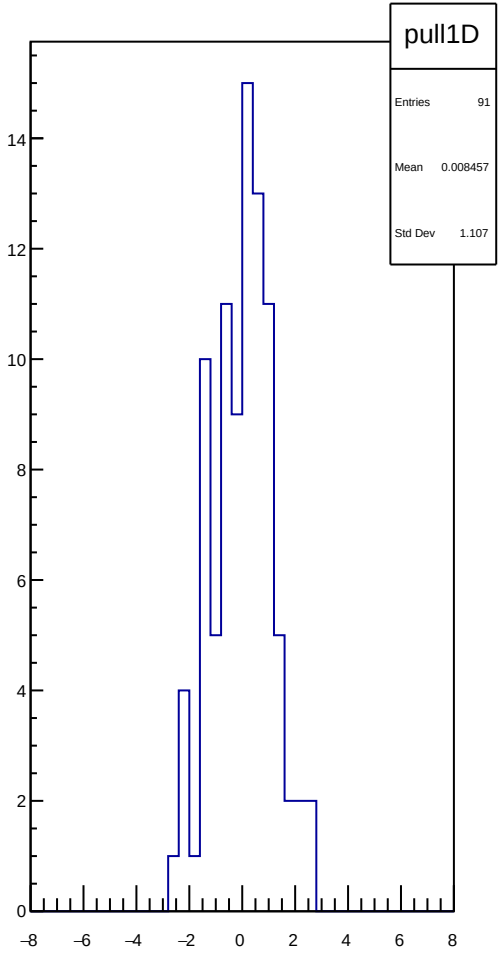

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2396 / 90
p0 989.4 ± 0.7488
1080
1060
1040
1020
1000
980
960
940
920
900

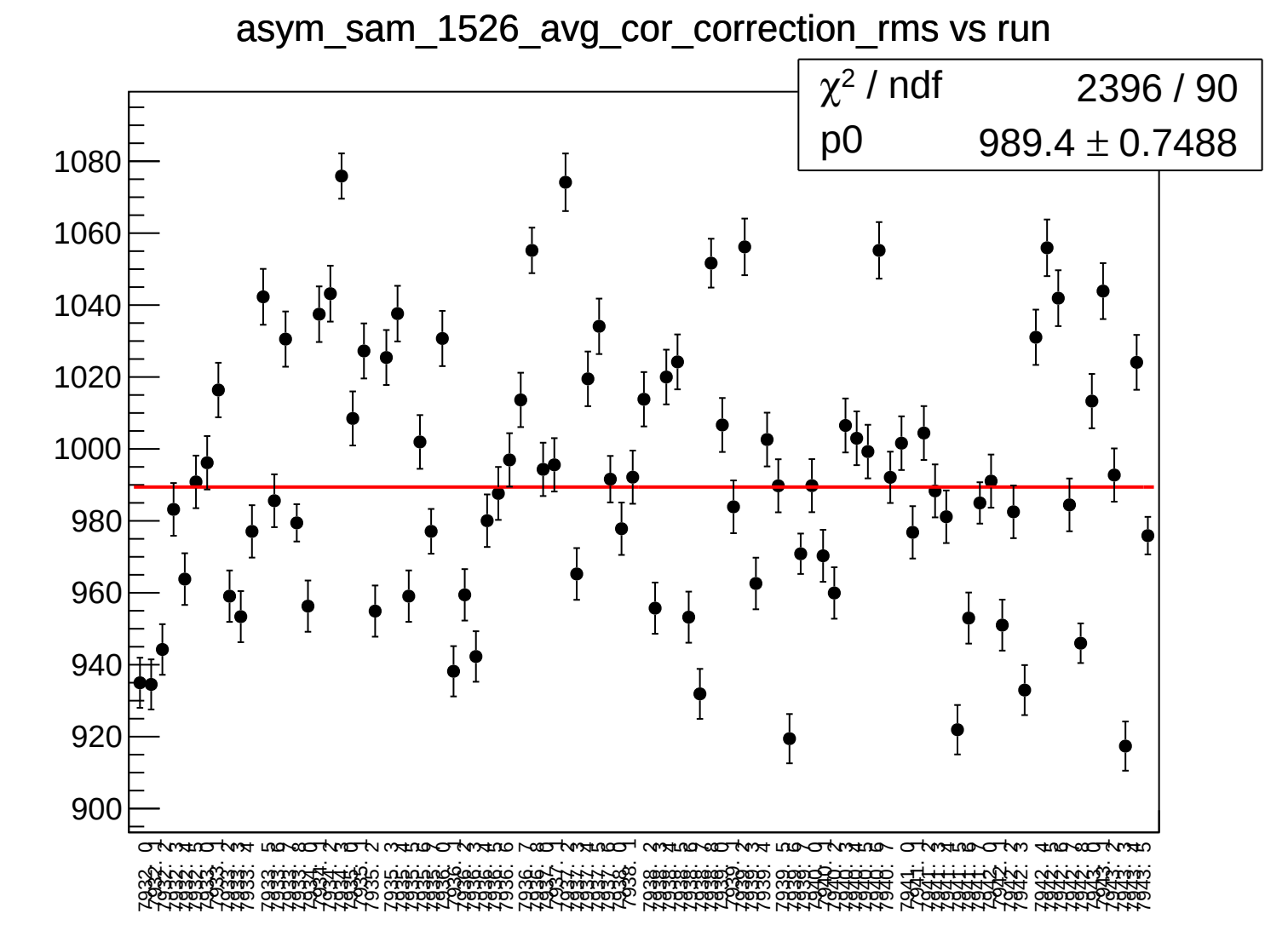

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 99.73 / 90
p0 545.6 ± 157.4
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 39.19
Std Dev 0
3
2
1
0
−1
−2

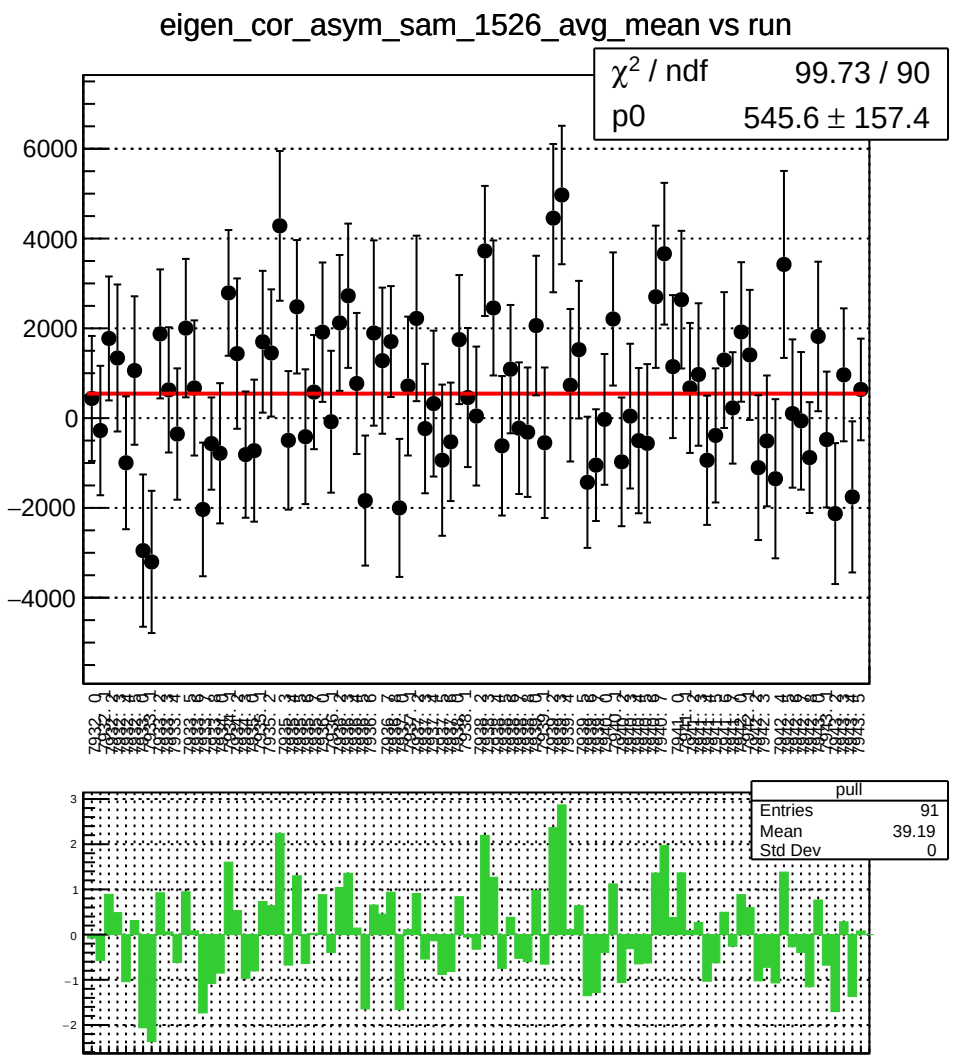

pull1D
Entries 91
Mean 0.01687
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

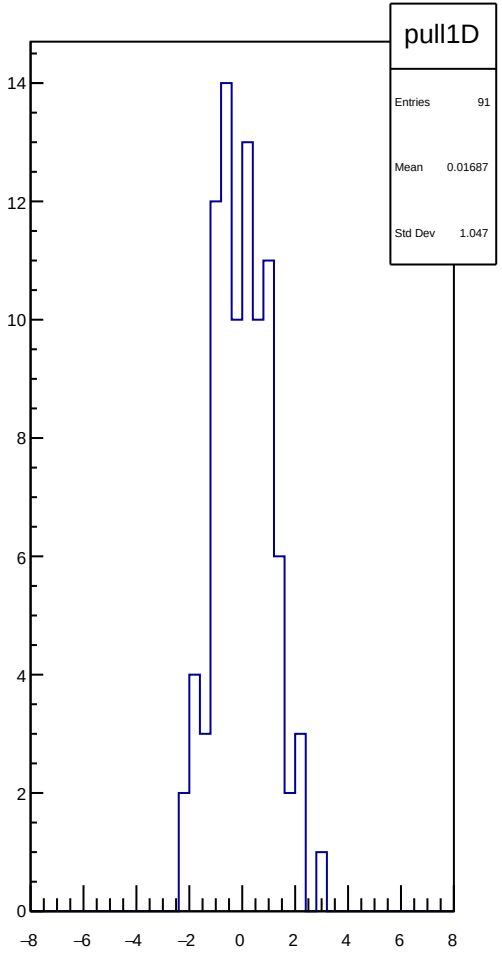

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 8574 / 90
p0 146.8 ± 0.1113
200
190
180
170
160
150
140
130

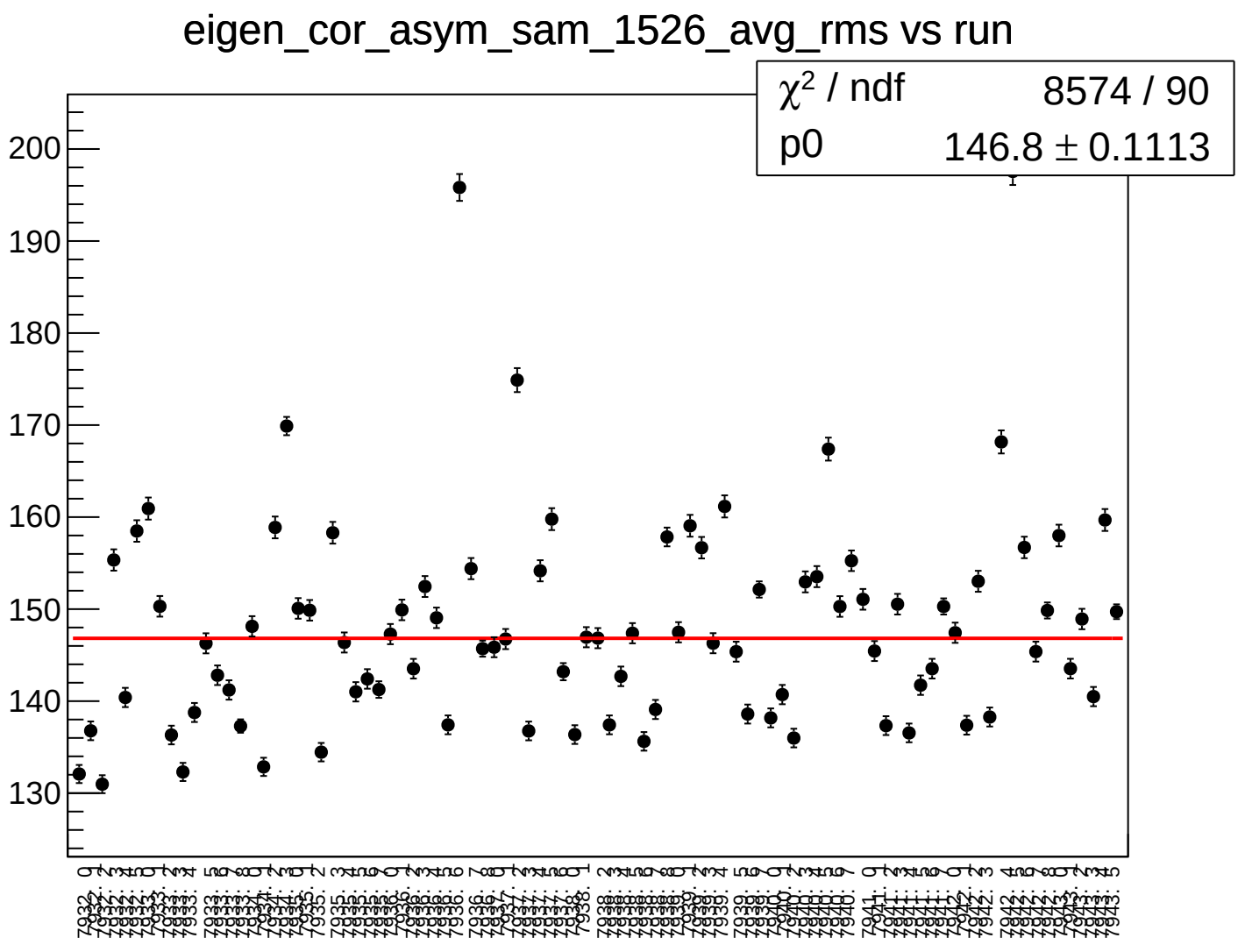

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 111.6 / 90
p0 −309.9 ± 1059
pull
Entries 91
Mean −28.26
Std Dev 0

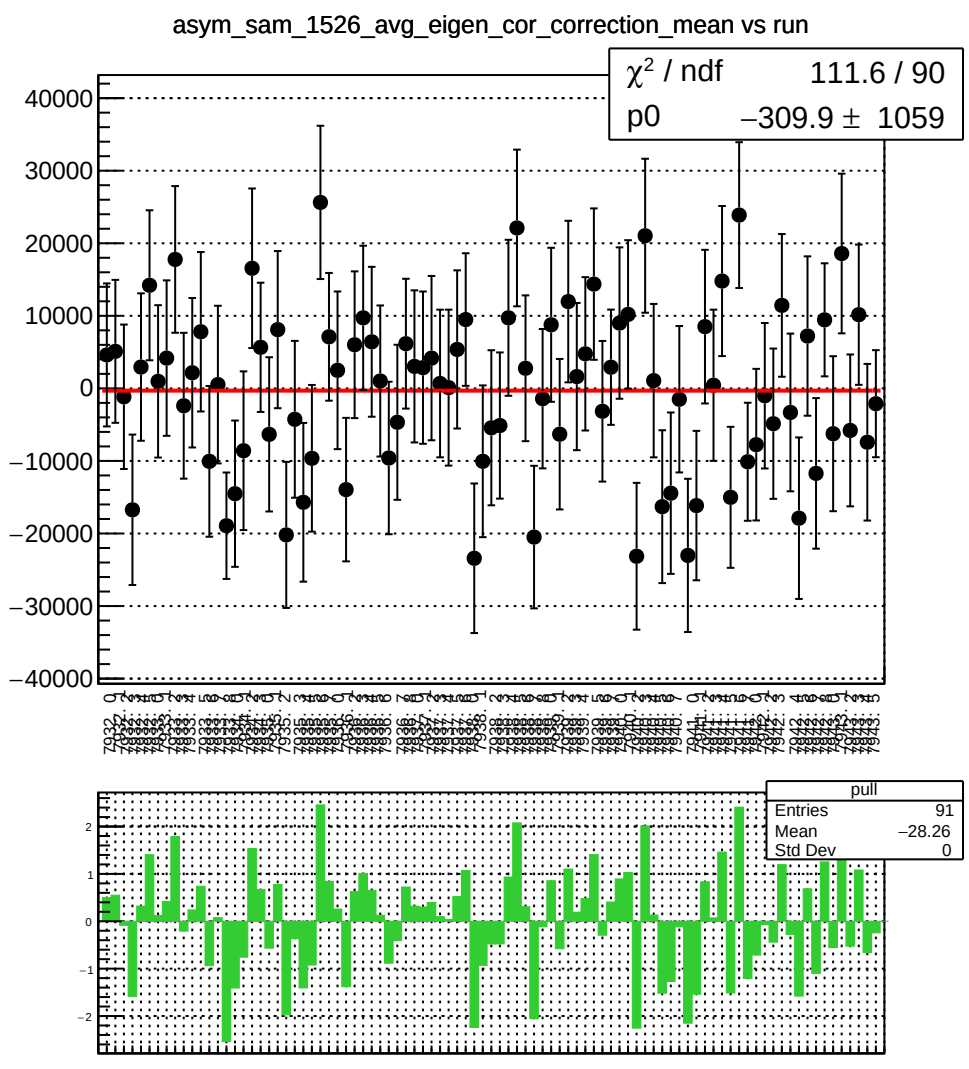

pull1D
Entries 91
Mean 0.008457
Std Dev 1.107

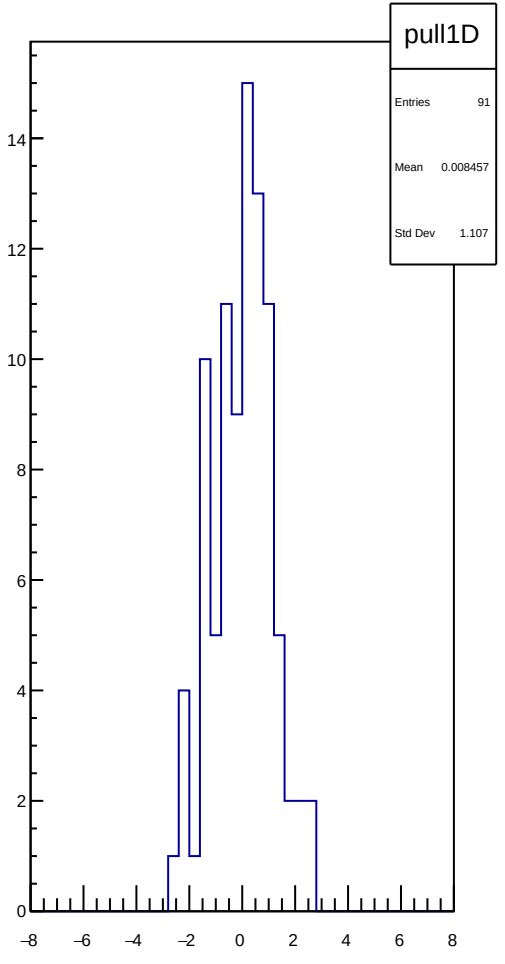

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2396 / 90
p0 989.4 ± 0.7488
1080
1060
1040
1020
1000
980
960
940
920
900

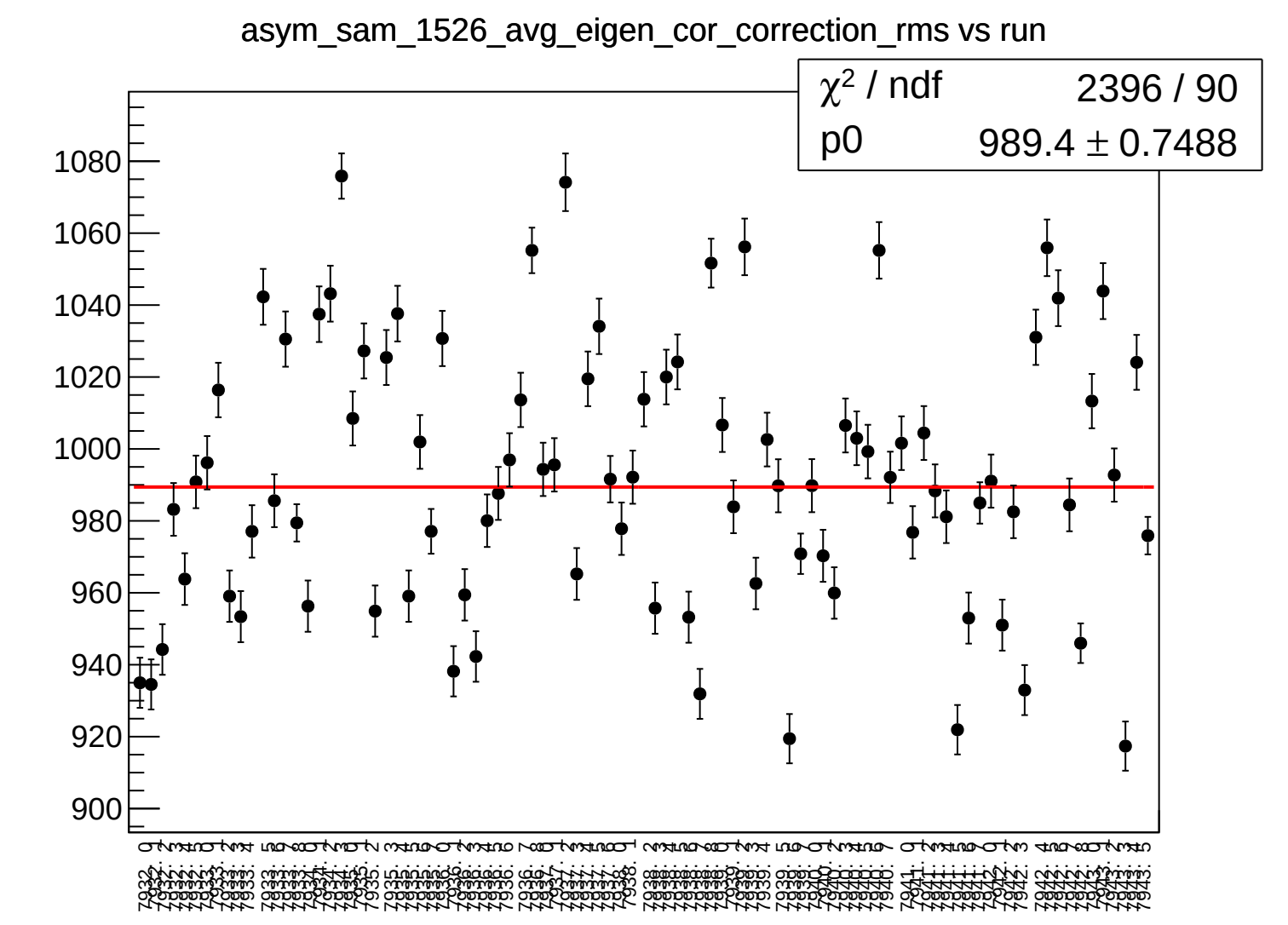

eigen_cor_asym_sam_1526_avg_mean vs run
χ^2 / ndf 99.73 / 90
p0 545.6 ± 157.4
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 39.19
Std Dev 0
3
2
1
0
−1
−2

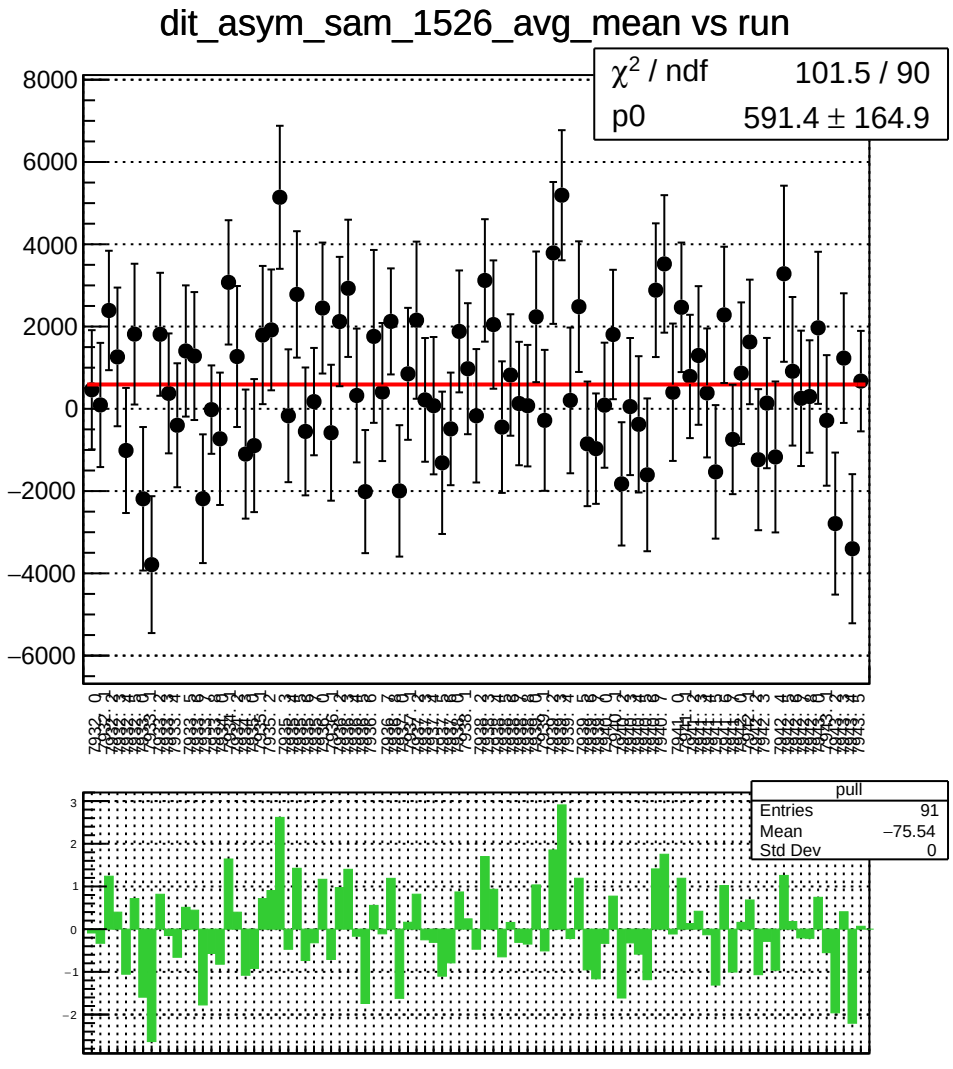

pull1D
Entries 91
Mean 0.01687
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

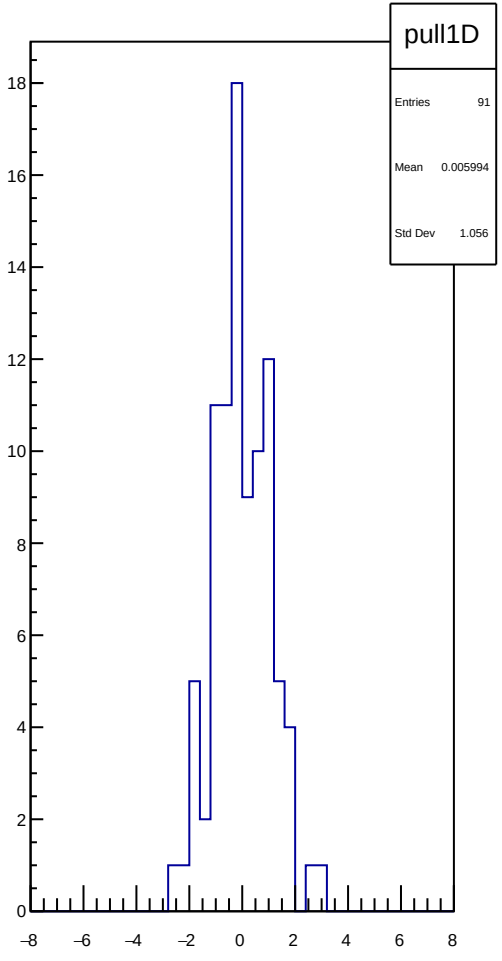

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 8574 / 90
p0 146.8 ± 0.1113
200
190
180
170
160
150
140
130

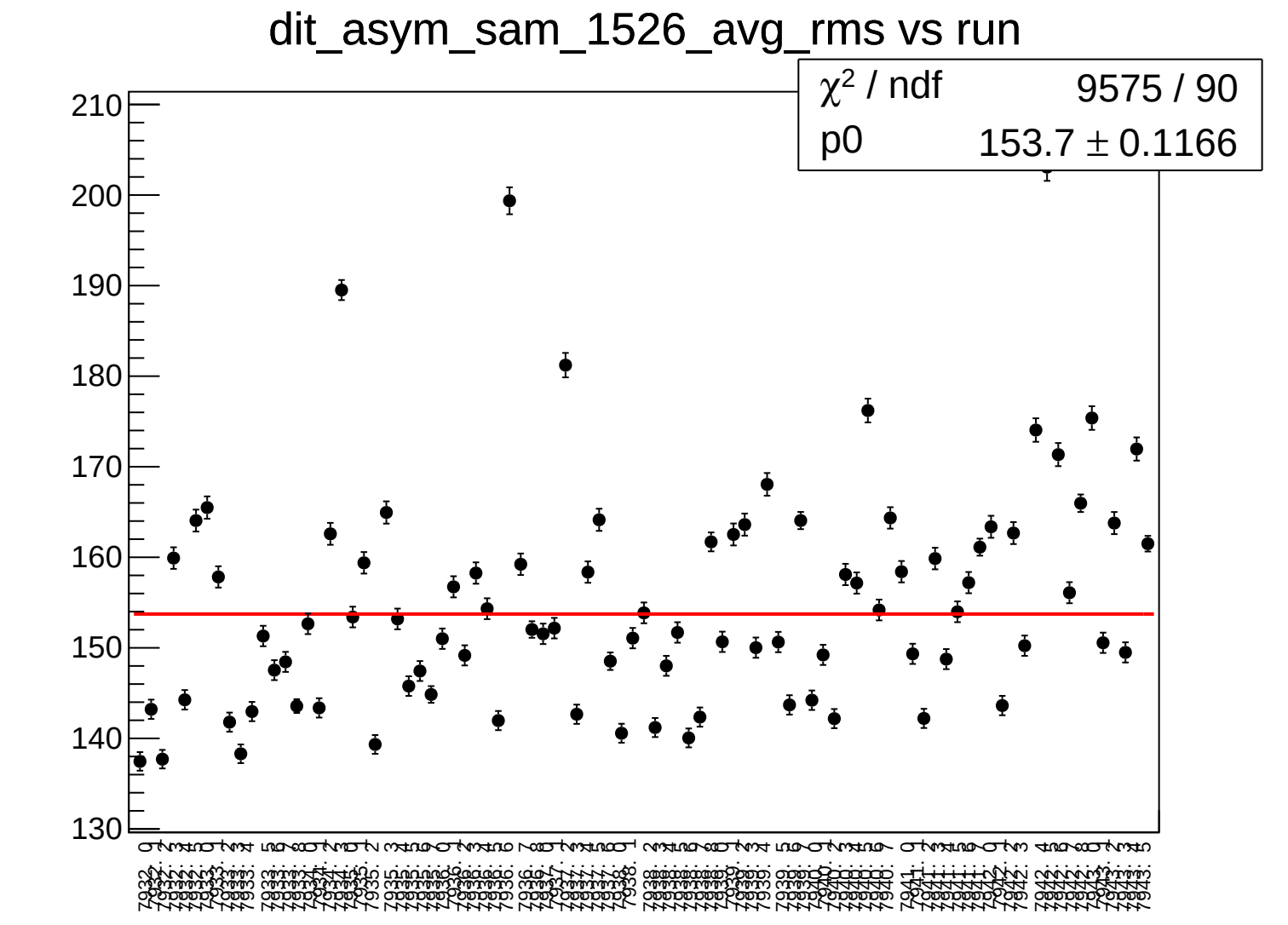

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.6 / 90
p0 −309.9 ± 1059
pull
Entries 91
Mean −28.26
Std Dev 0

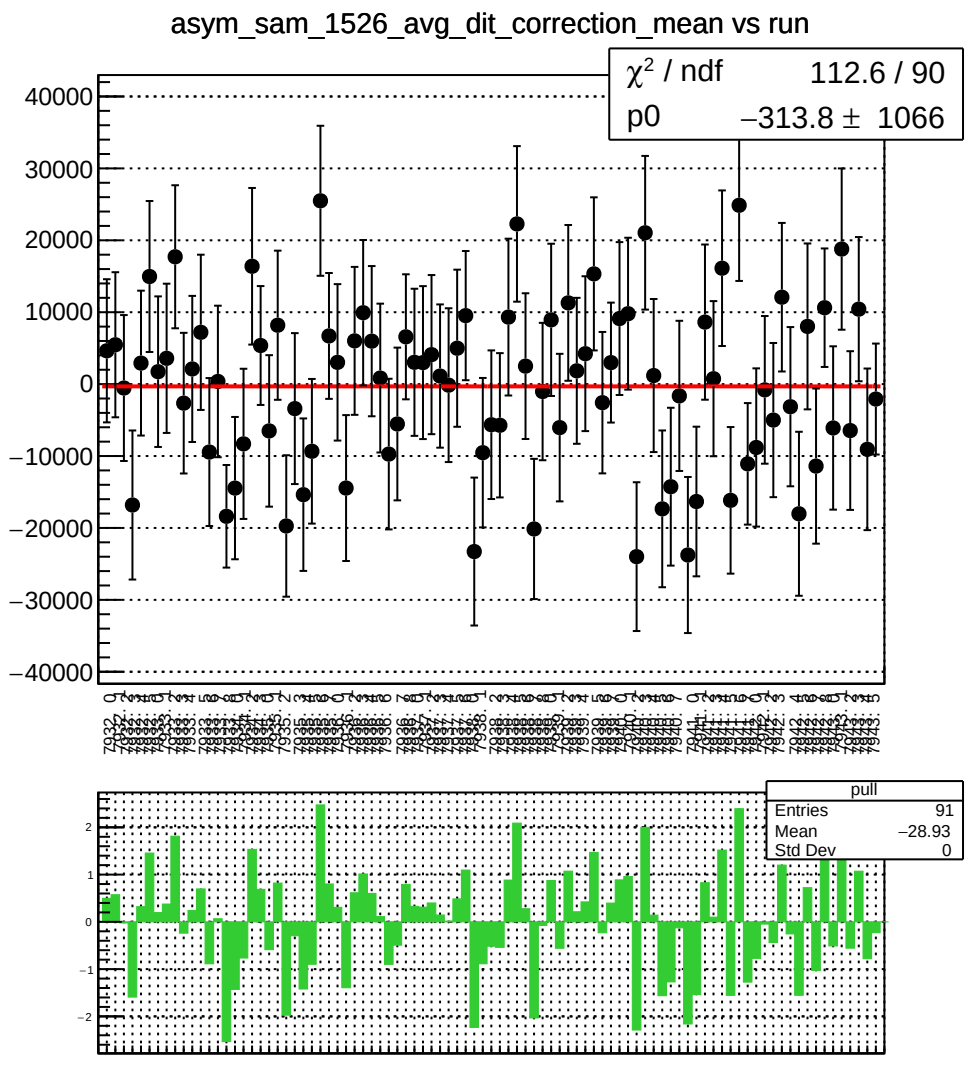

pull1D
Entries 91
Mean 0.008457
Std Dev 1.107

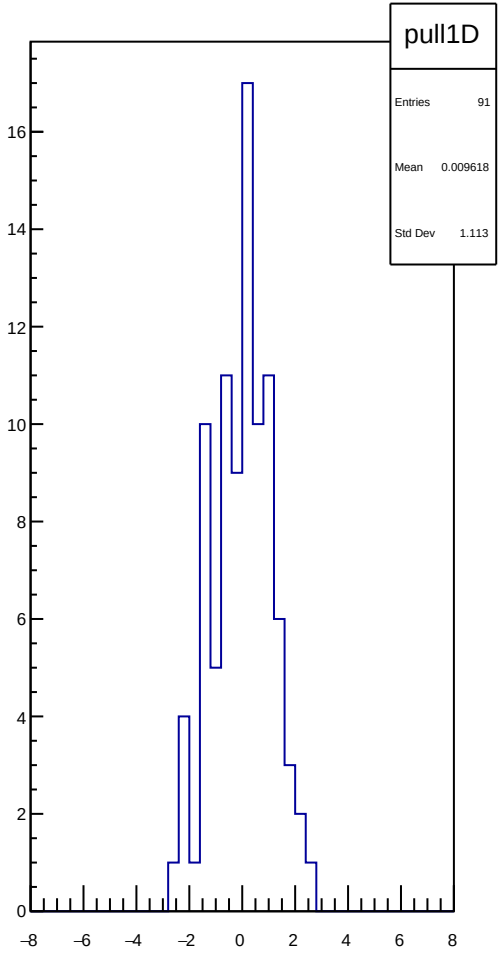

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2396 / 90
p0 989.4 ± 0.7488
1080
1060
1040
1020
1000
980
960
940
920
900

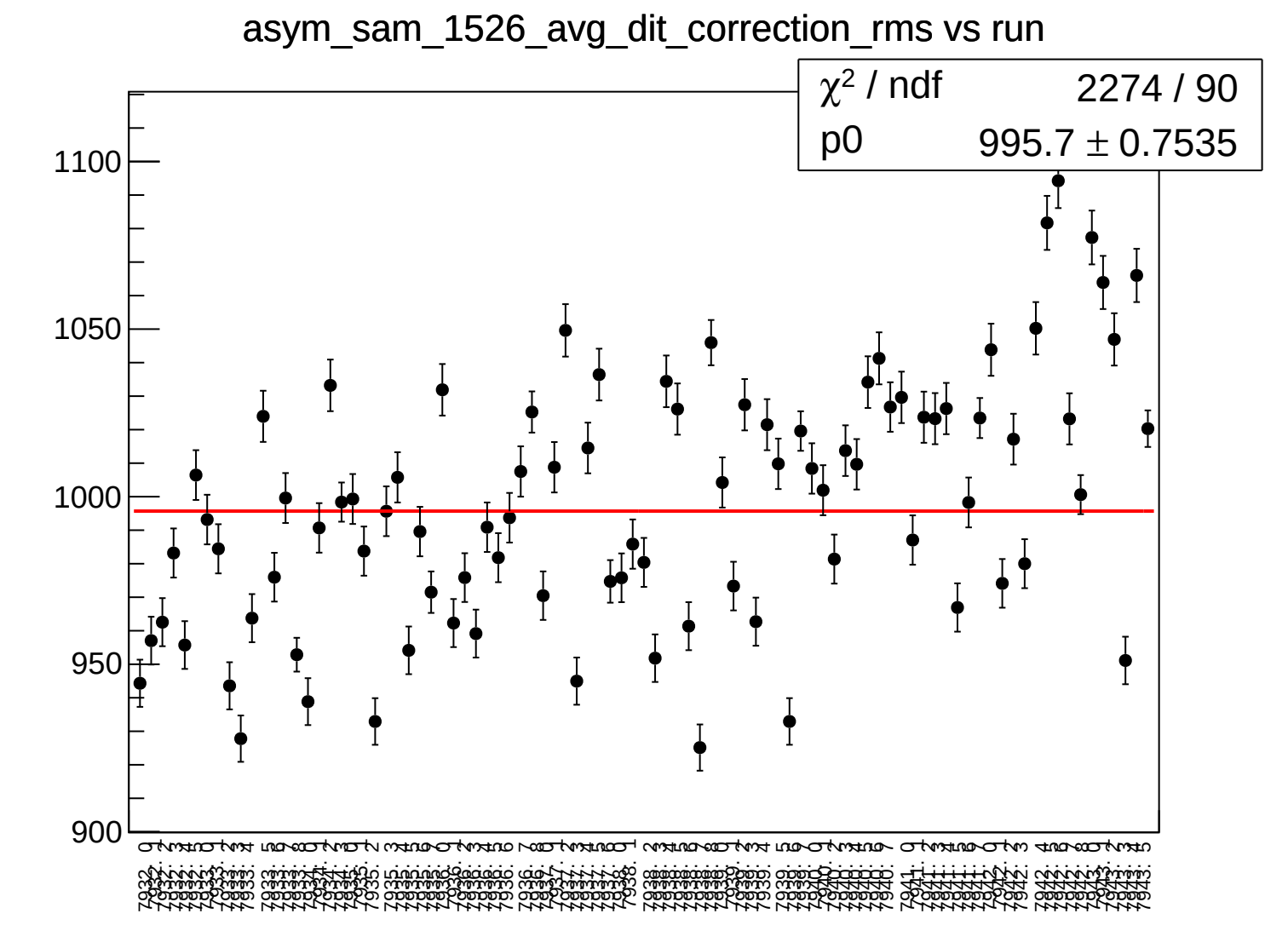

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 101.5 / 90
p0 591.4 ± 164.9
pull
Entries 91
Mean −75.54
Std Dev 0

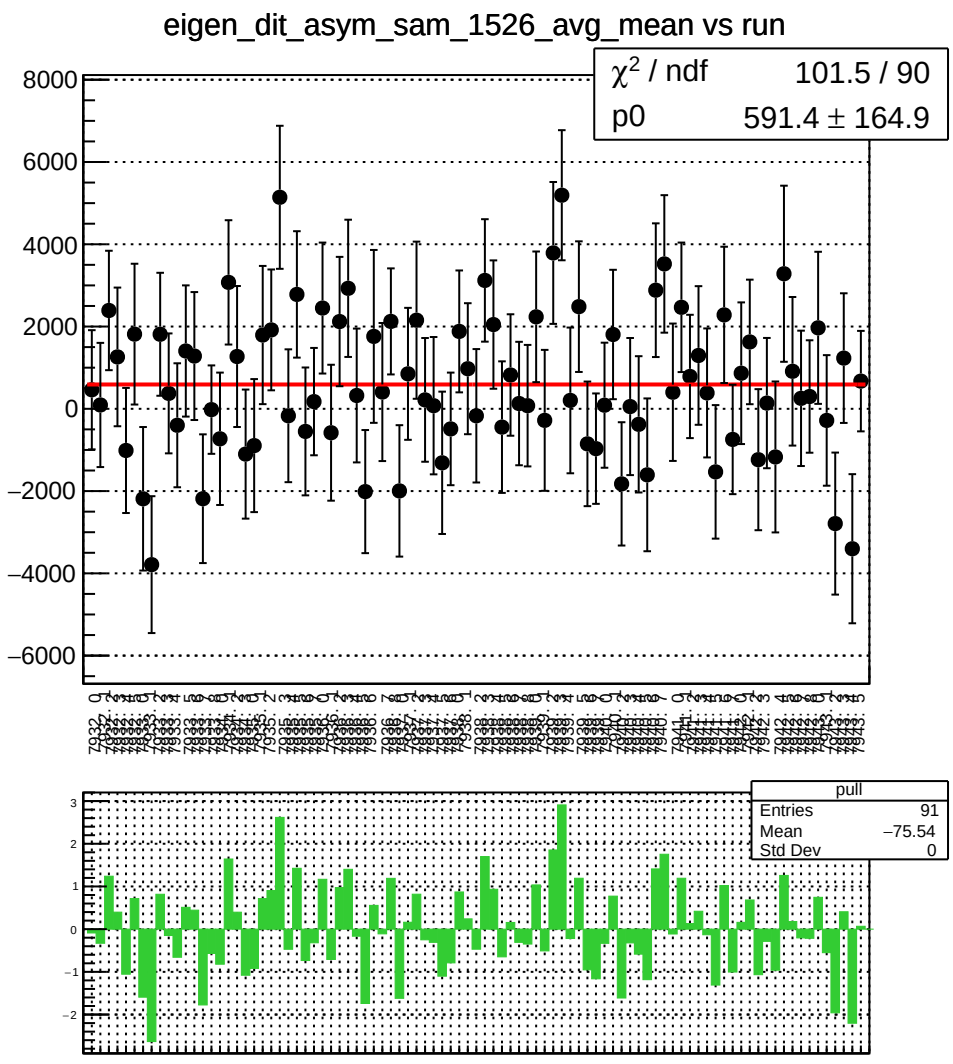

pull1D
Entries 91
Mean 0.005994
Std Dev 1.056

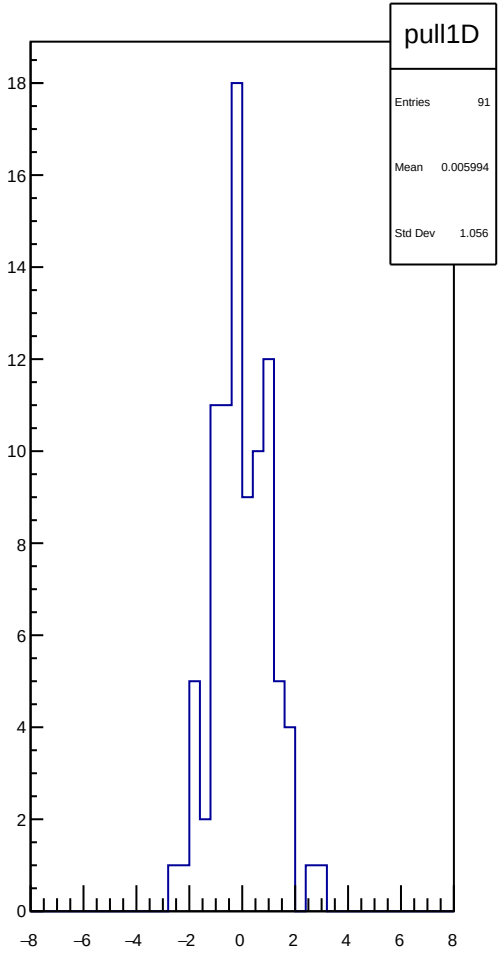

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9575 / 90
p0 153.7 ± 0.1166
210
200
190
180
170
160
150
140
130

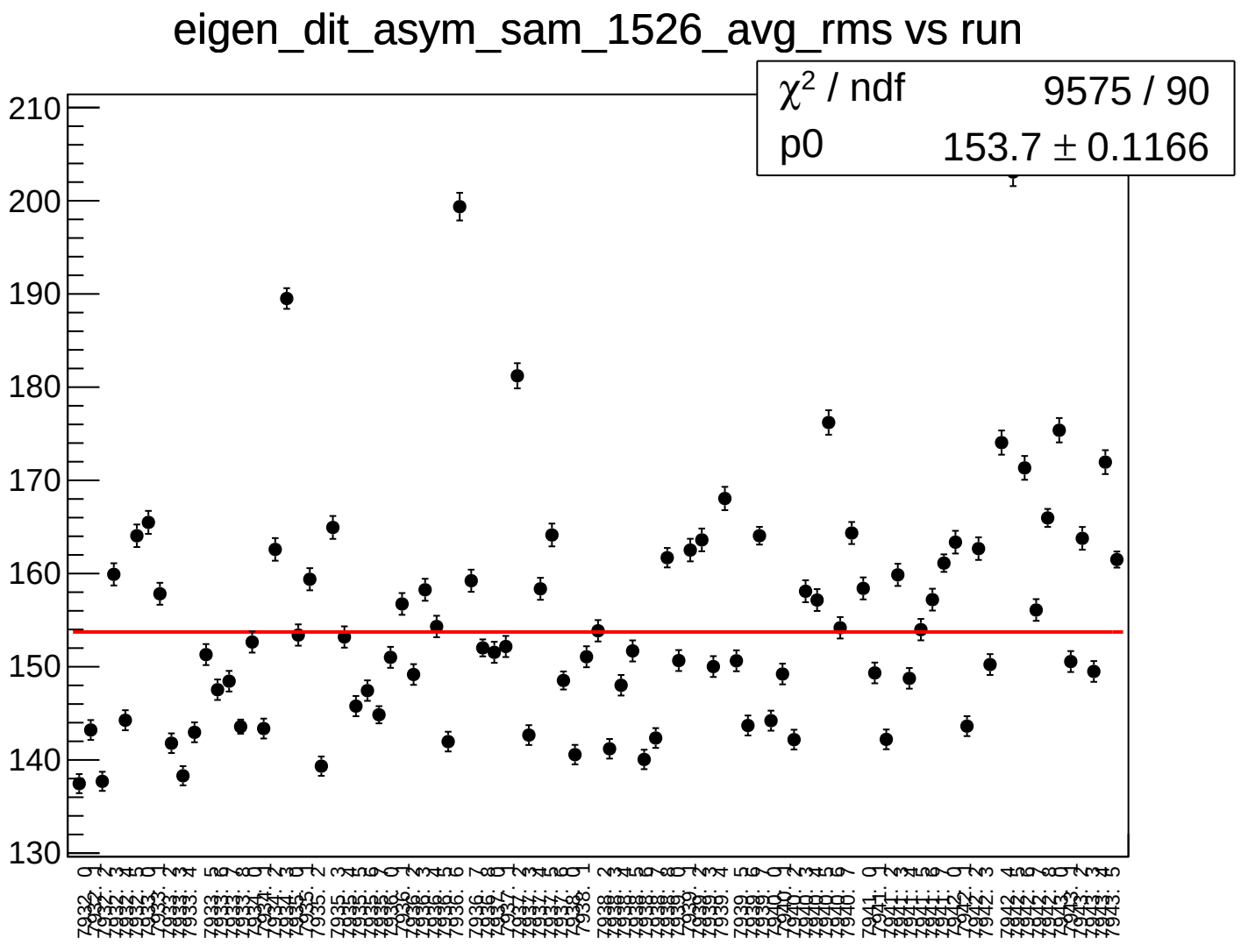

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 112.6 / 90
p0 −313.8 ± 1066
pull
Entries 91
Mean −28.93
Std Dev 0

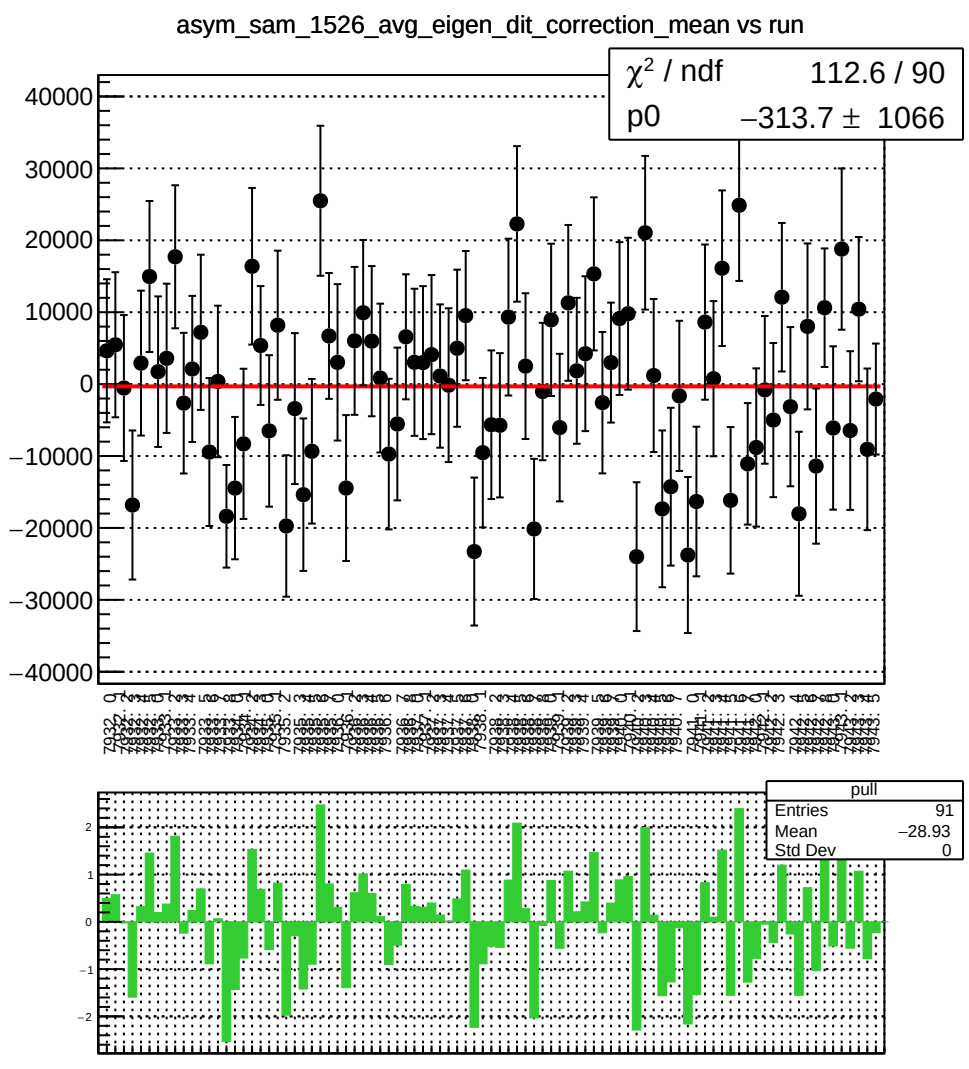

pull1D
Entries 91
Mean 0.009618
Std Dev 1.113

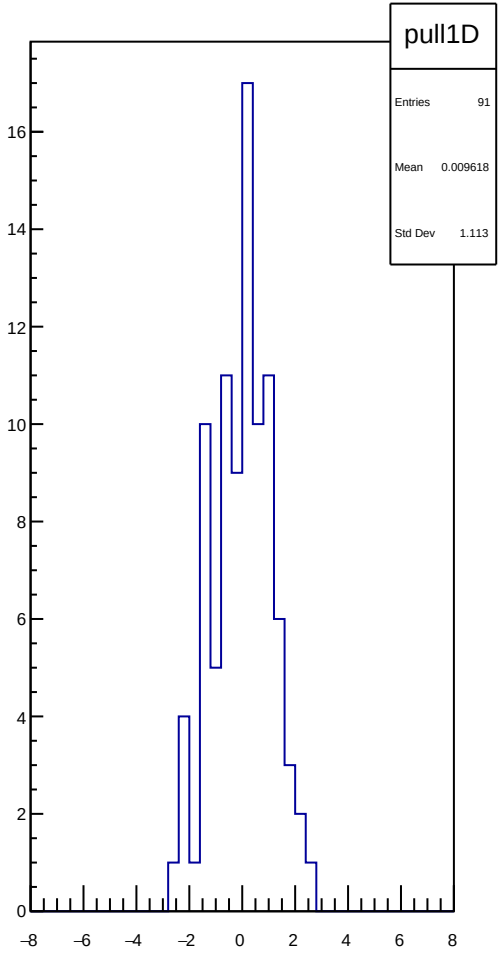

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2274 / 90
p0 995.7 ± 0.7535
1100
1050
1000
950
900

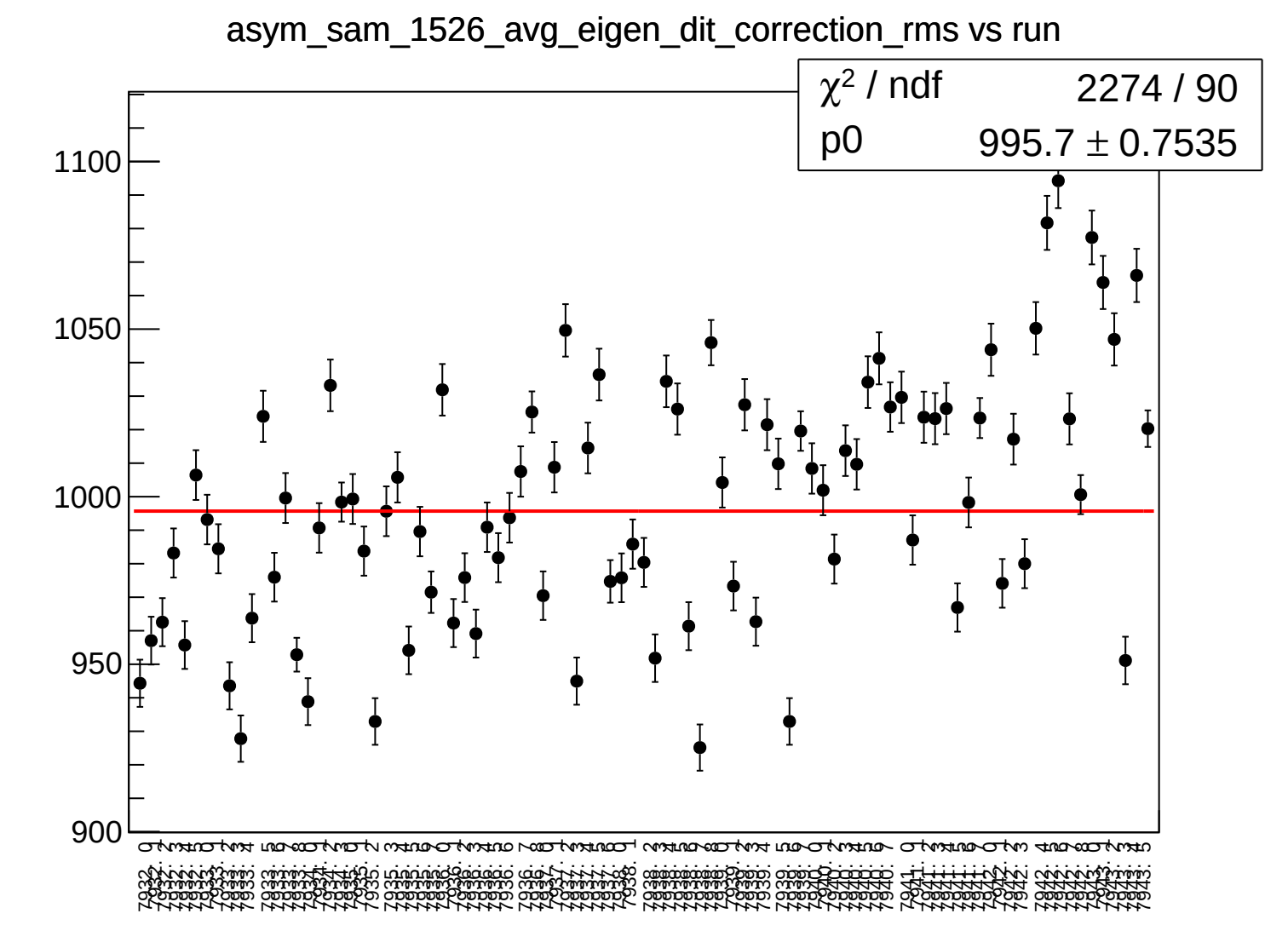

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 101.5 / 90
p0 591.4 ± 164.9
pull
Entries 91
Mean −75.54
Std Dev 0

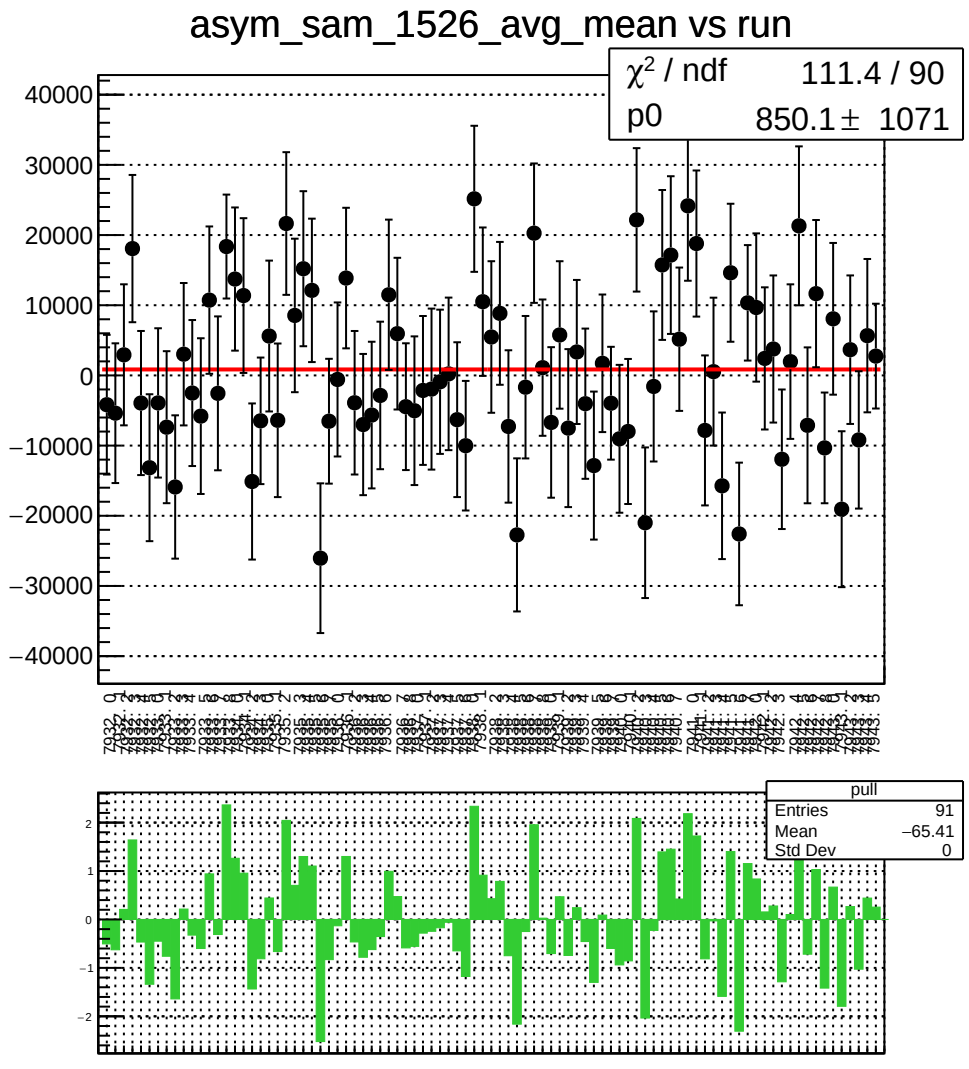

pull1D
Entries 91
Mean 0.005994
Std Dev 1.056

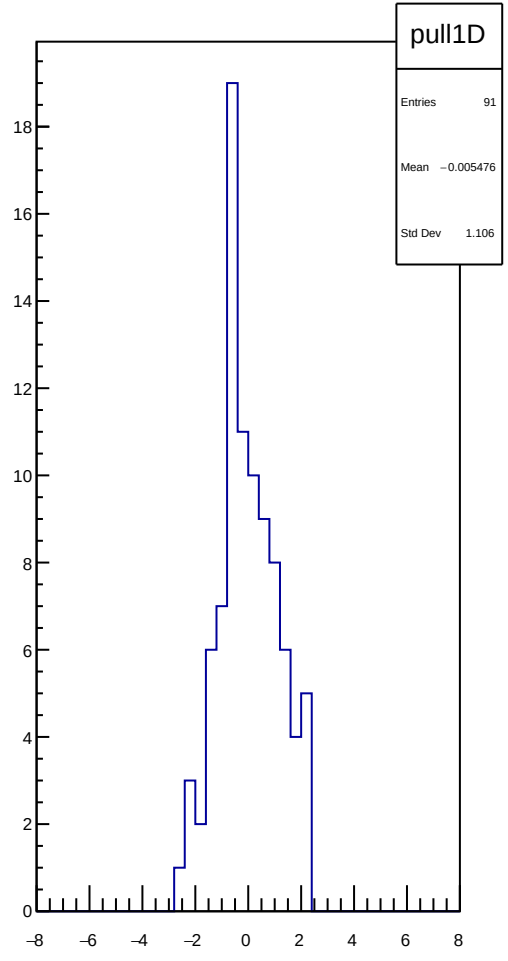

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 9575 / 90
p0 153.7 ± 0.1166
210
200
190
180
170
160
150
140
130

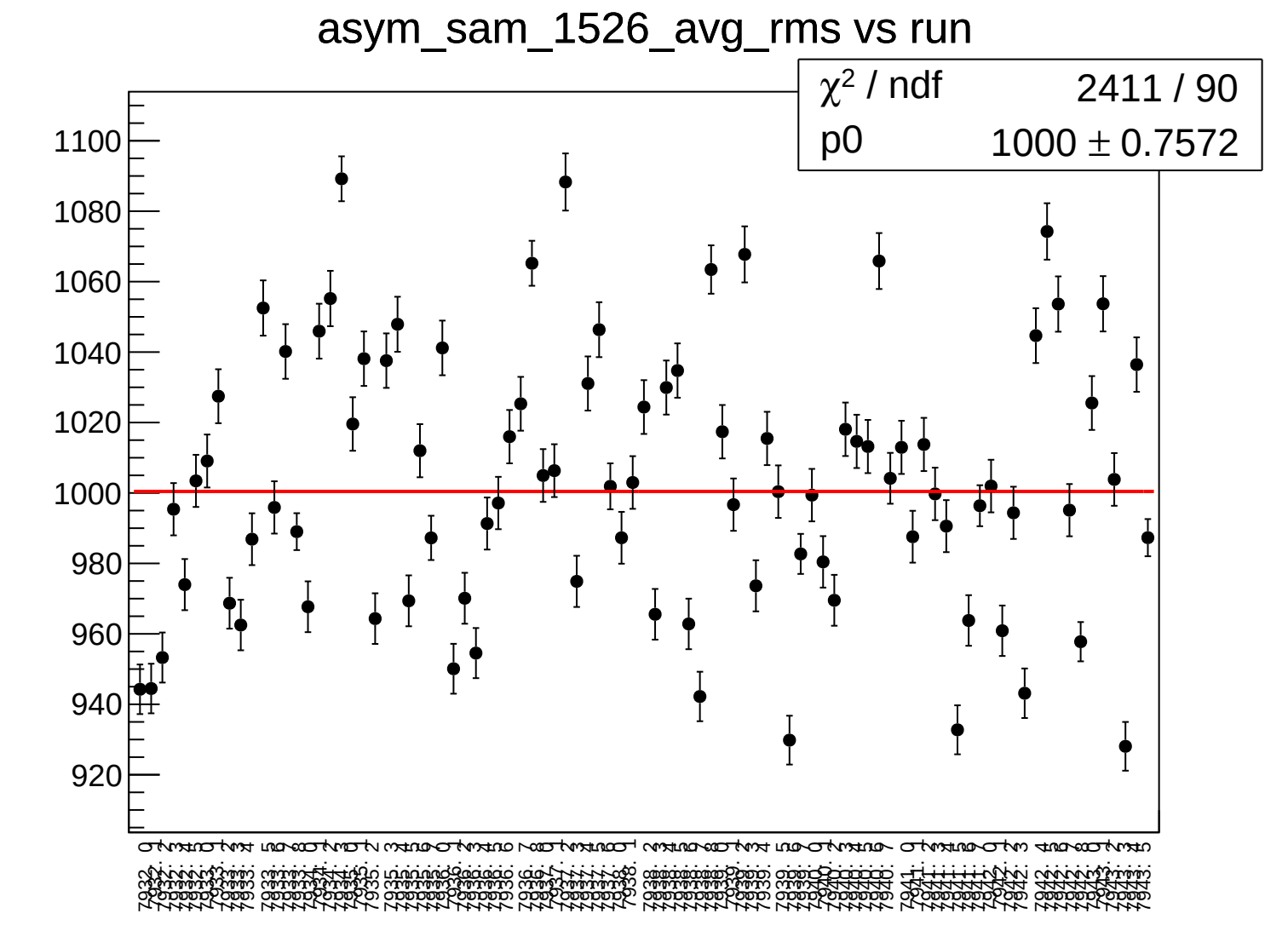

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.6 / 90
p0 −313.7 ± 1066
pull
Entries 91
Mean −28.93
Std Dev 0

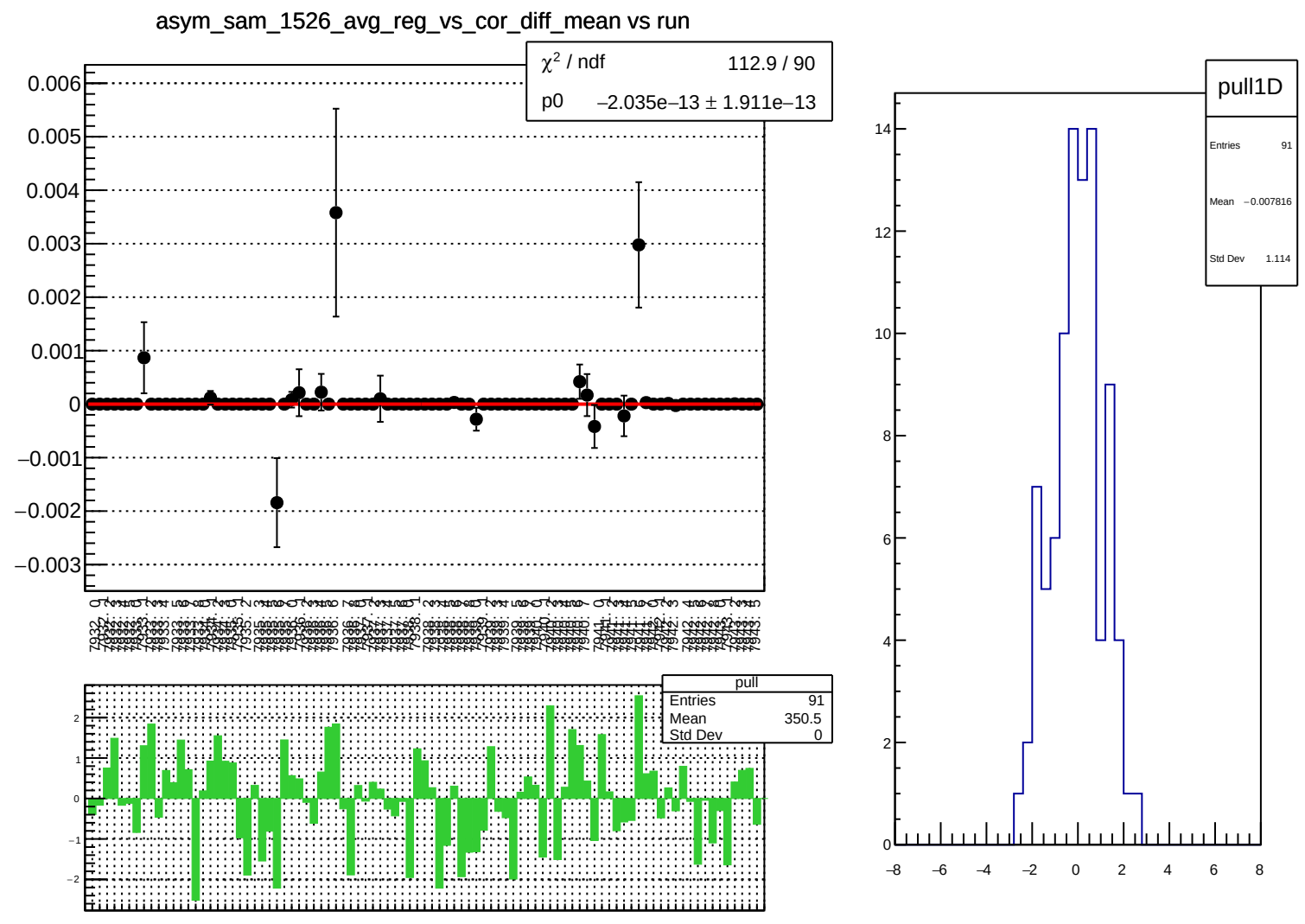

pull1D
Entries 91
Mean 0.009618
Std Dev 1.113

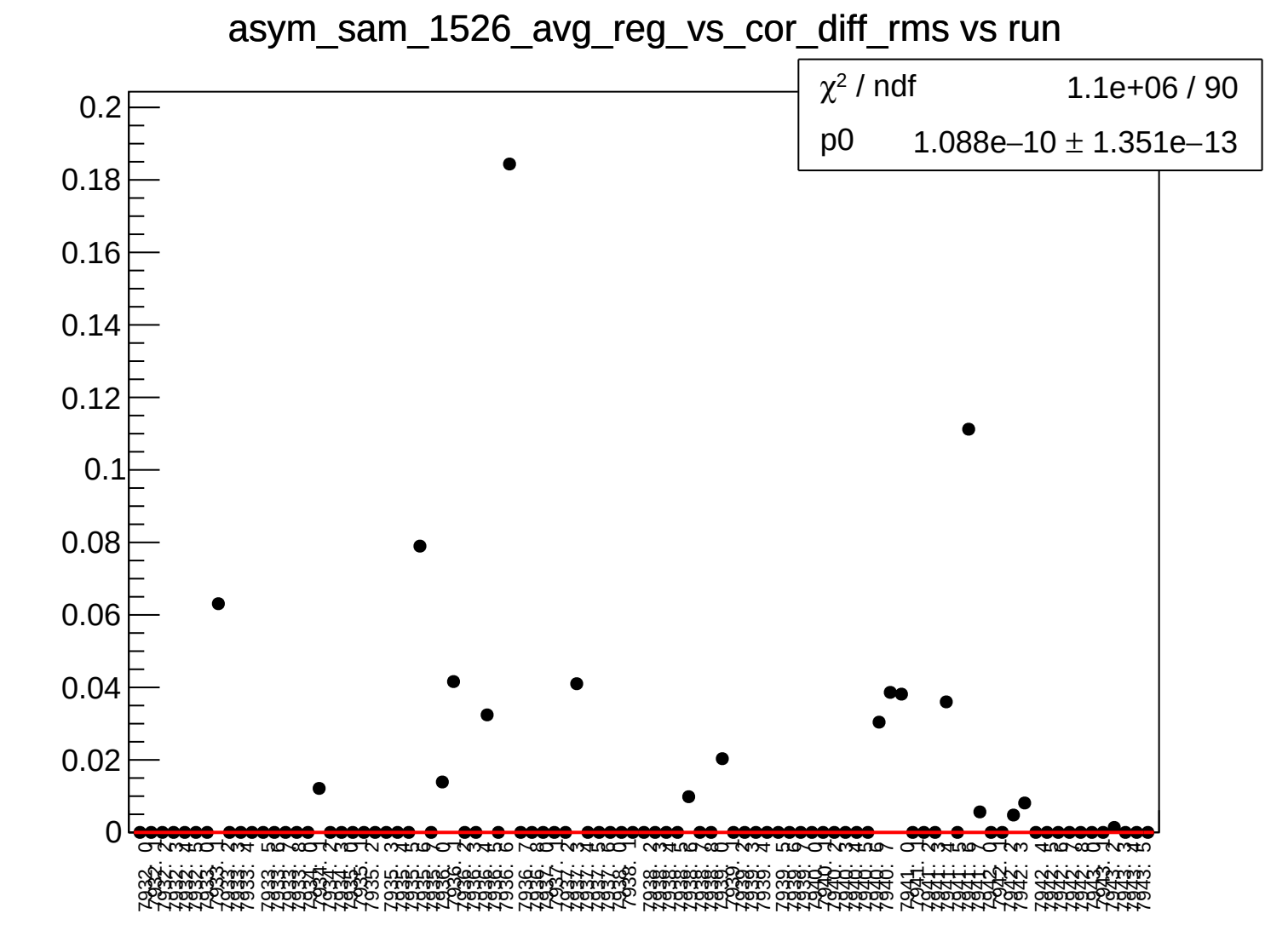

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2274 / 90
p0 995.7 ± 0.7535
1100
1050
1000
950
900

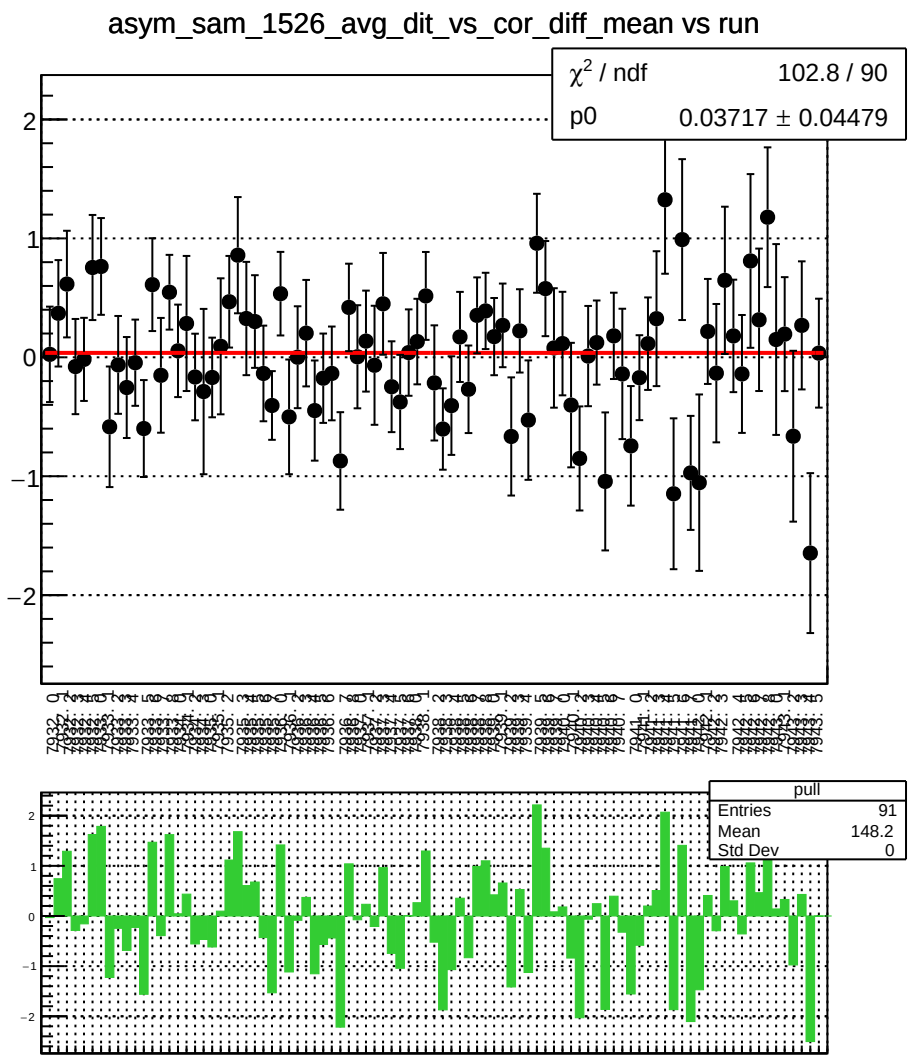

asym_sam_1526_avg_mean vs run
χ² / ndf 111.4 / 90
p0 850.1 ± 1071
pull
Entries 91
Mean −65.41
Std Dev 0

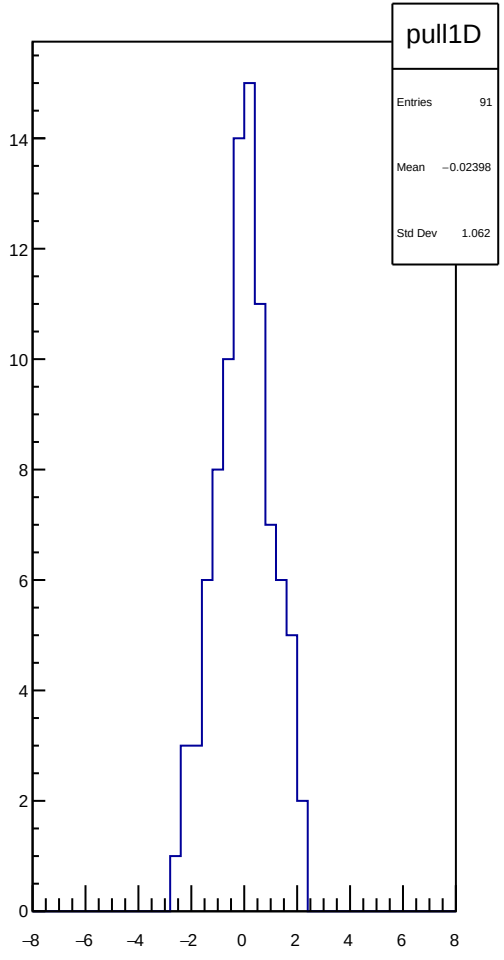

pull1D
Entries 91
Mean −0.005476
Std Dev 1.106

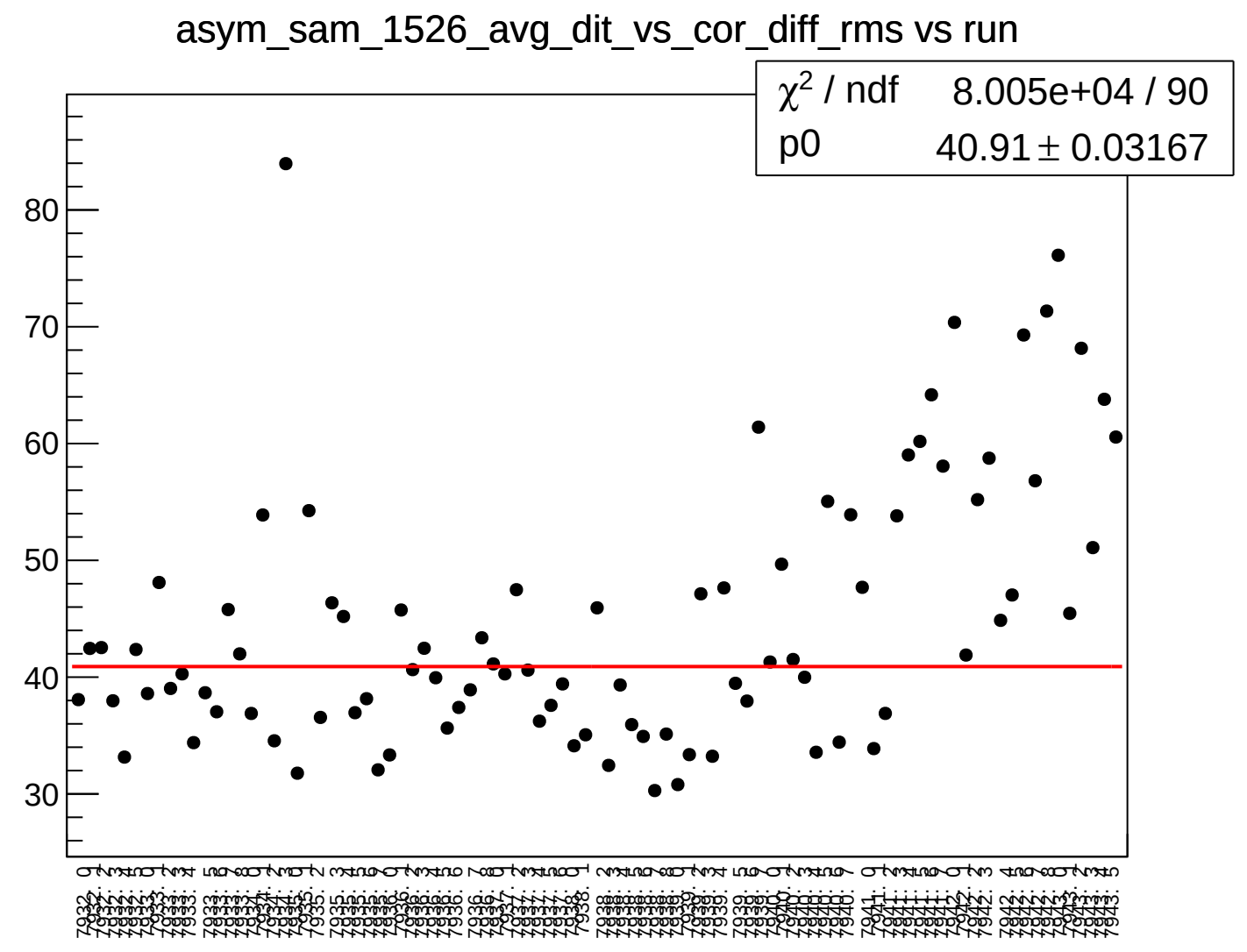

asym_sam_1526_avg_rms vs run
χ² / ndf 2411 / 90
p0 1000 ± 0.7572
1100
1080
1060
1040
1020
1000
980
960
940
920

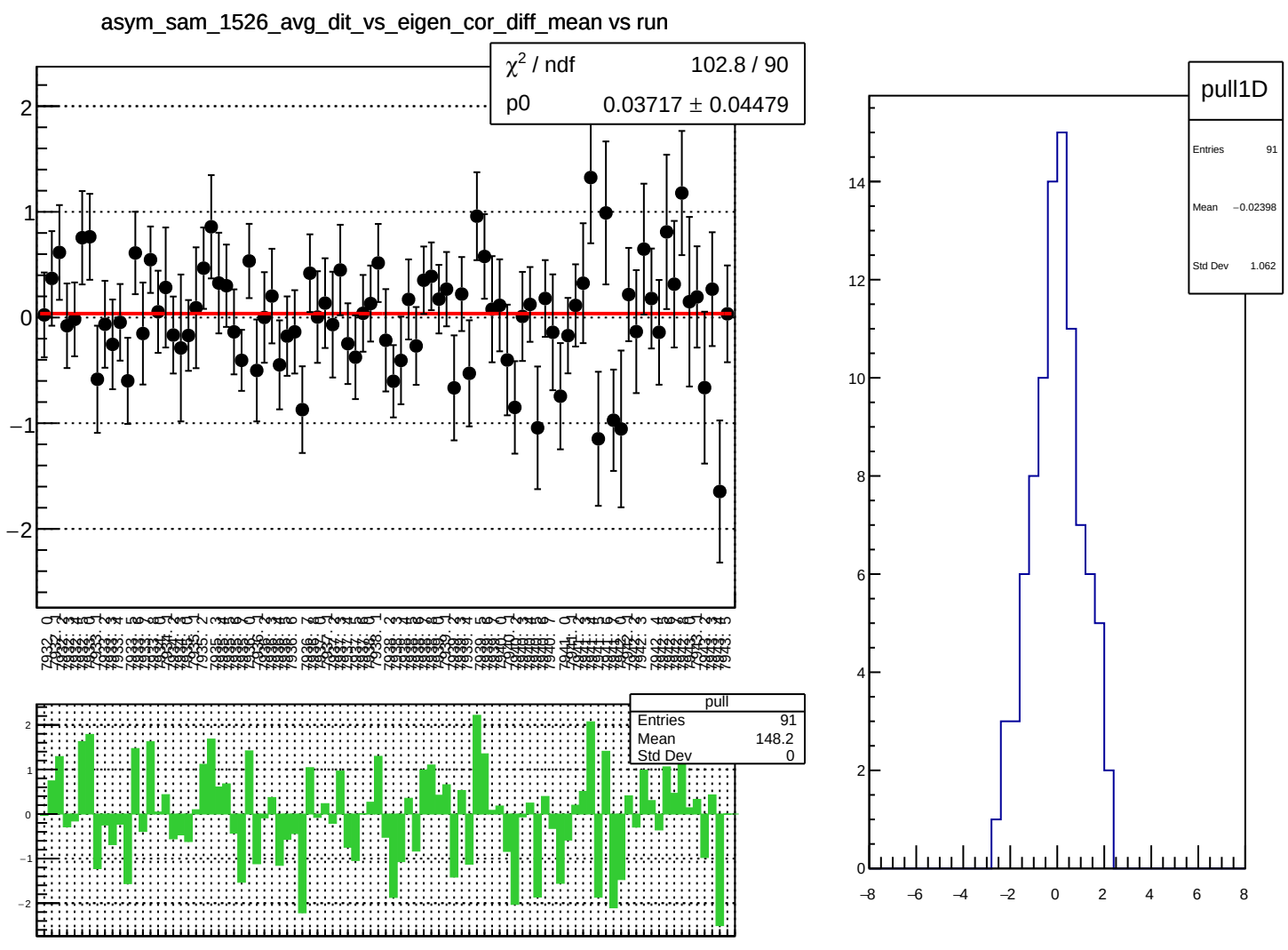

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 90
p0 −2.035e−13 ± 1.911e−13
pull
Entries 91
Mean 350.5
Std Dev 0
pull1D
Entries 91
Mean −0.007816
Std Dev 1.114

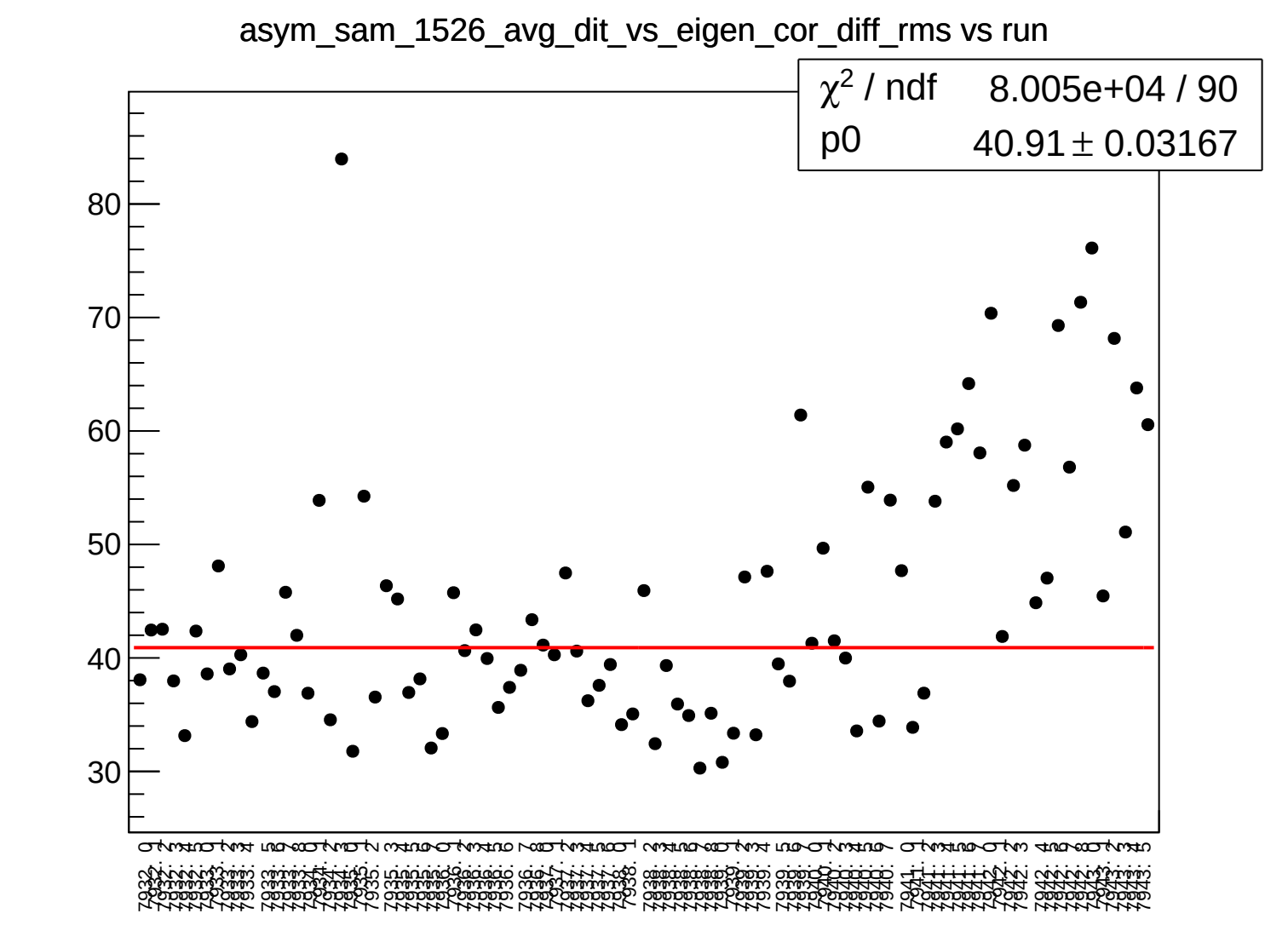

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.1e+06 / 90
p0 1.088e−10 ± 1.351e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

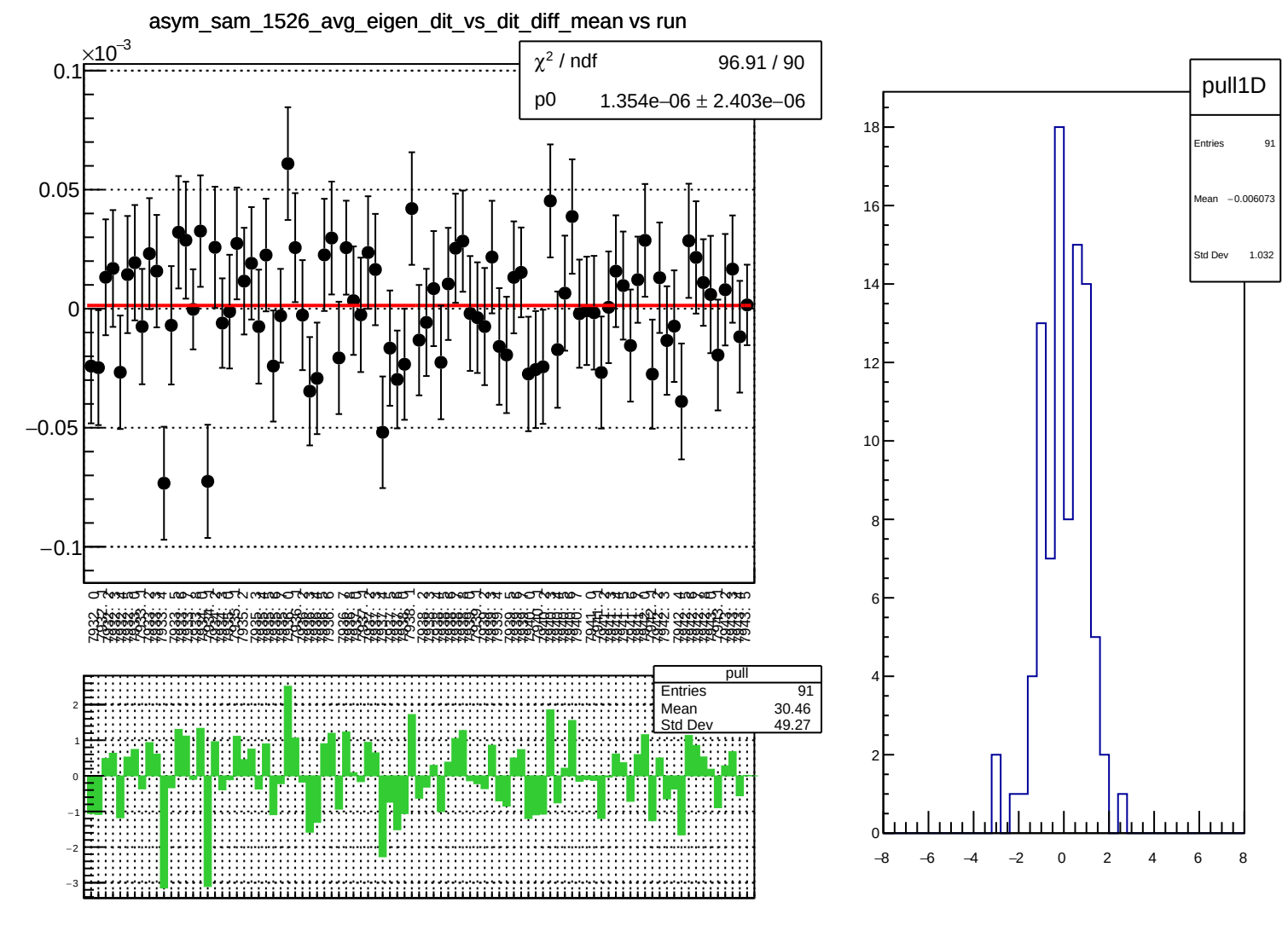

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.03717 ± 0.04479
pull
Entries 91
Mean 148.2
Std Dev 0

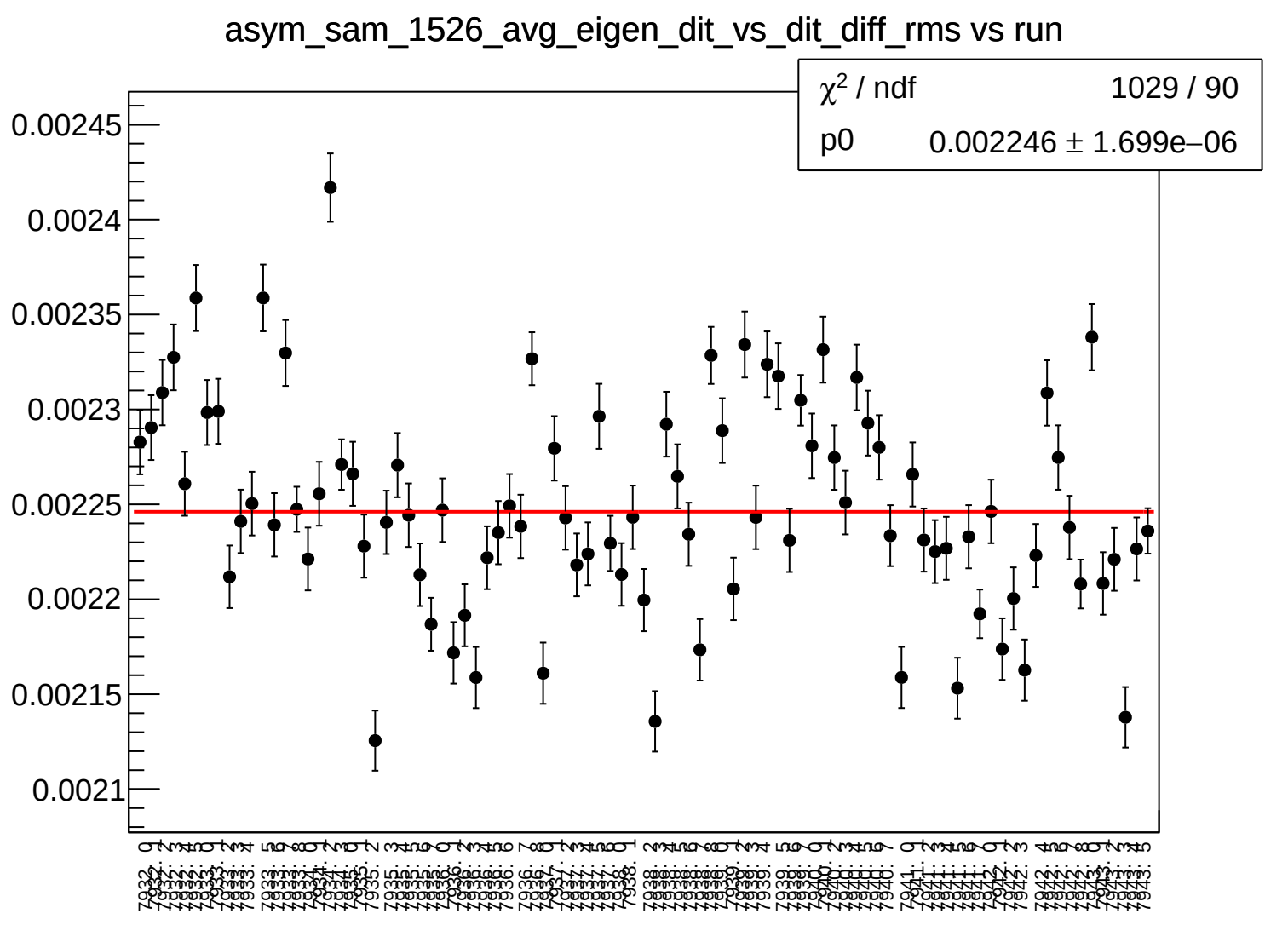

pull1D
Entries 91
Mean −0.02398
Std Dev 1.062

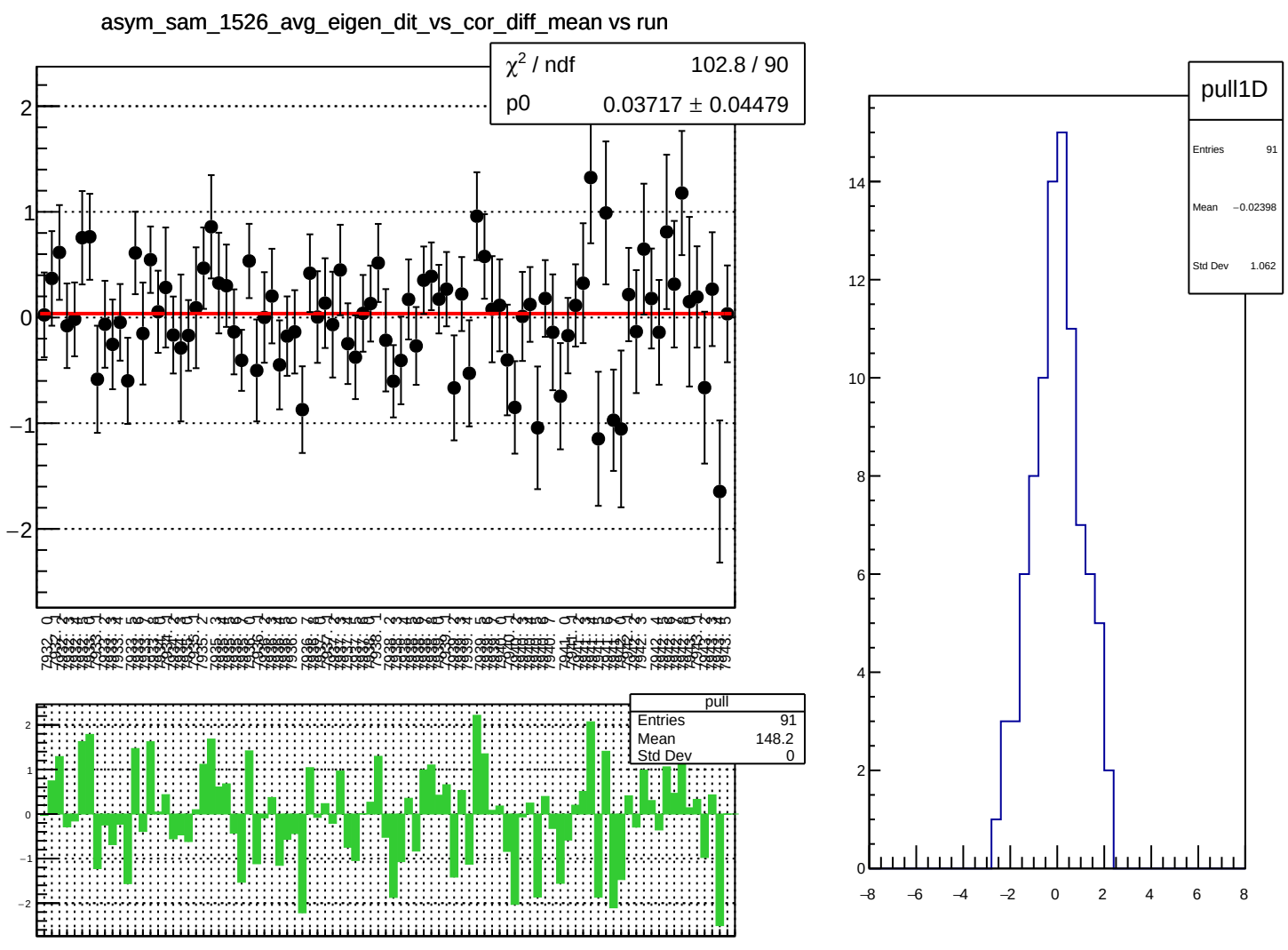

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.005e+04 / 90
p0 40.91 ± 0.03167
80
70
60
50
40
30

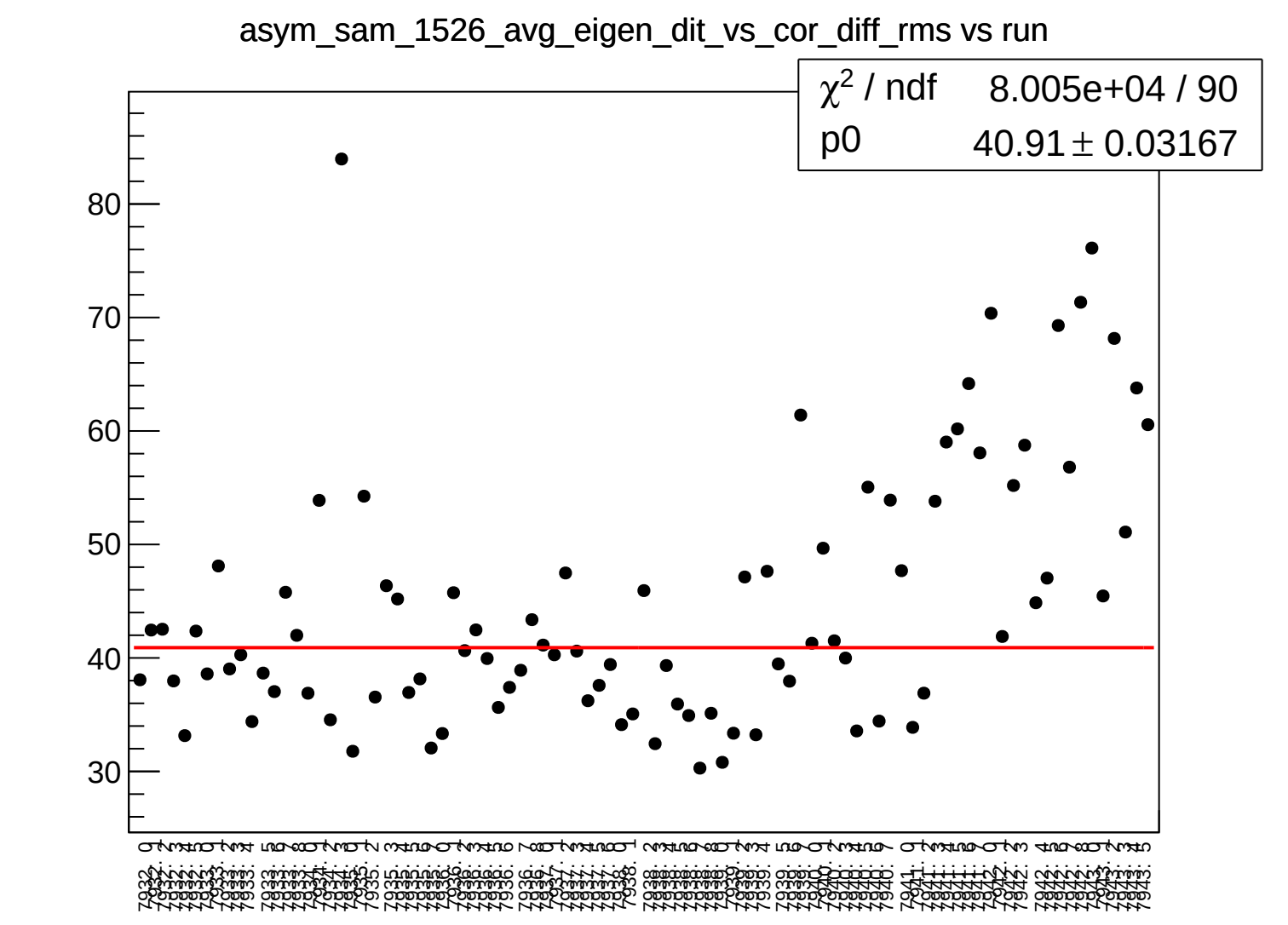

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.03717 ± 0.04479
pull
Entries 91
Mean 148.2
Std Dev 0
pull1D
Entries 91
Mean −0.02398
Std Dev 1.062

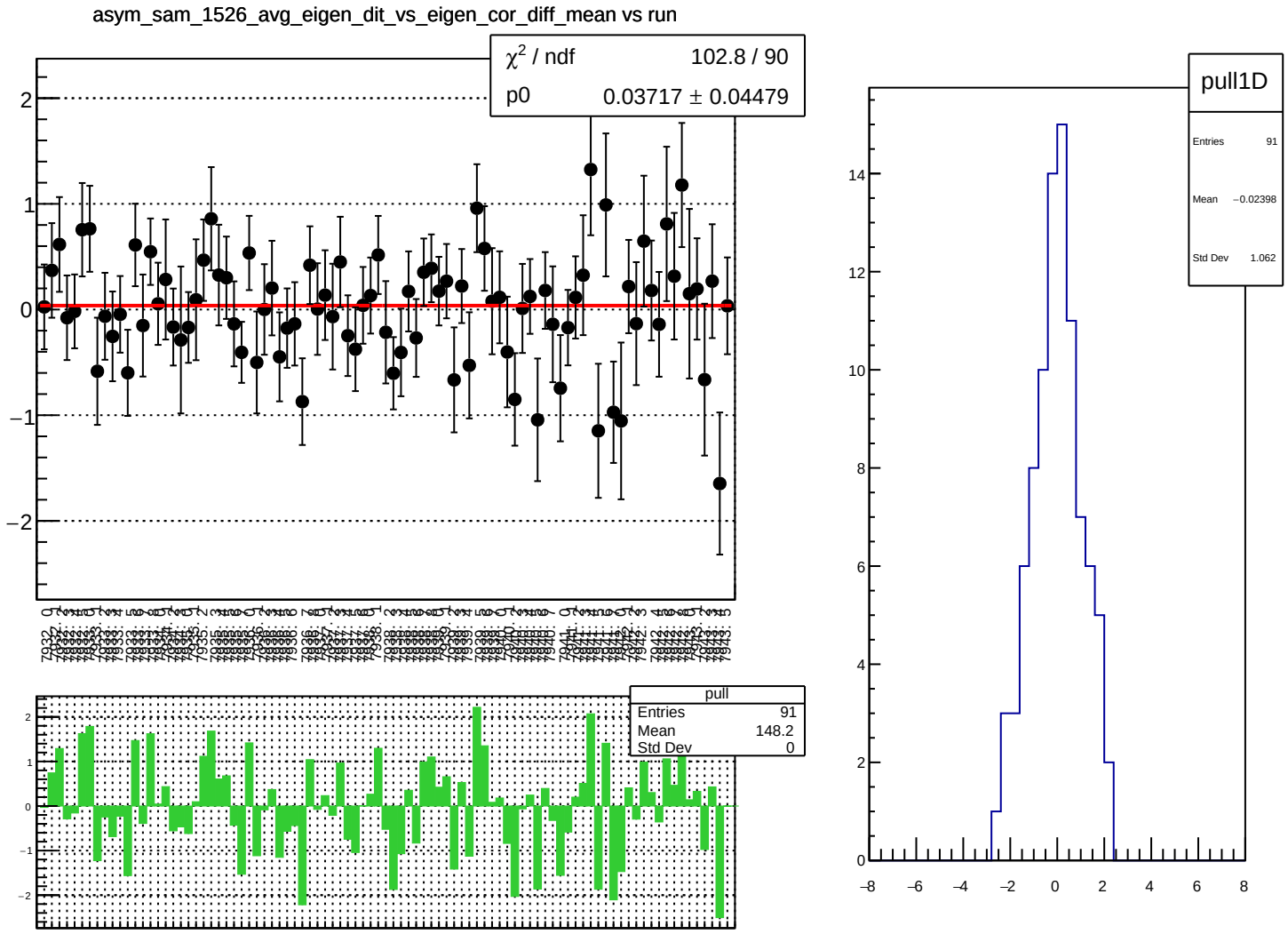

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.005e+04 / 90
p0 40.91 ± 0.03167
80
70
60
50
40
30

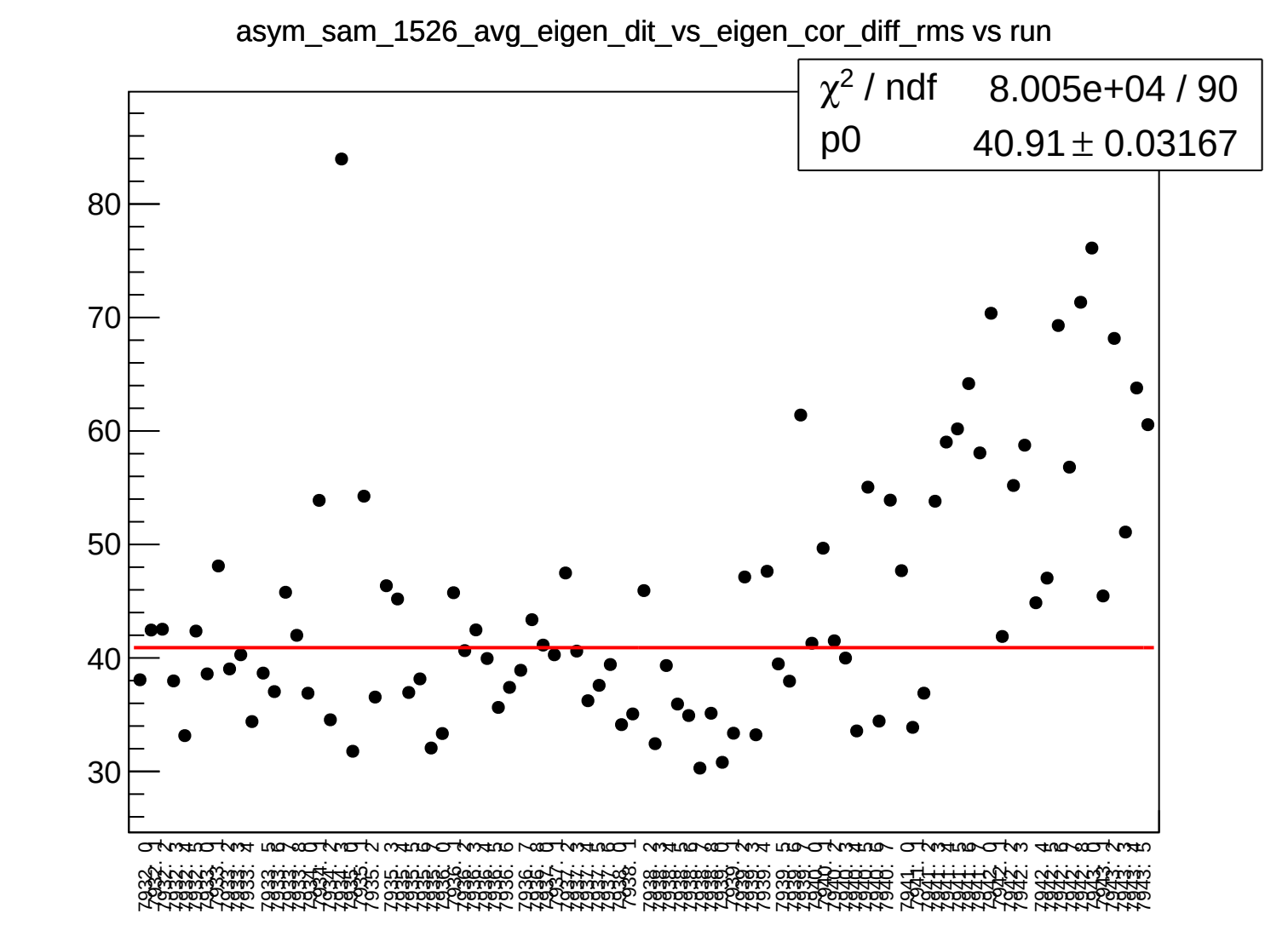

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.91 / 90
p0 1.354e−06 ± 2.403e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 30.46
Std Dev 49.27
pull1D
Entries 91
Mean −0.006073
Std Dev 1.032

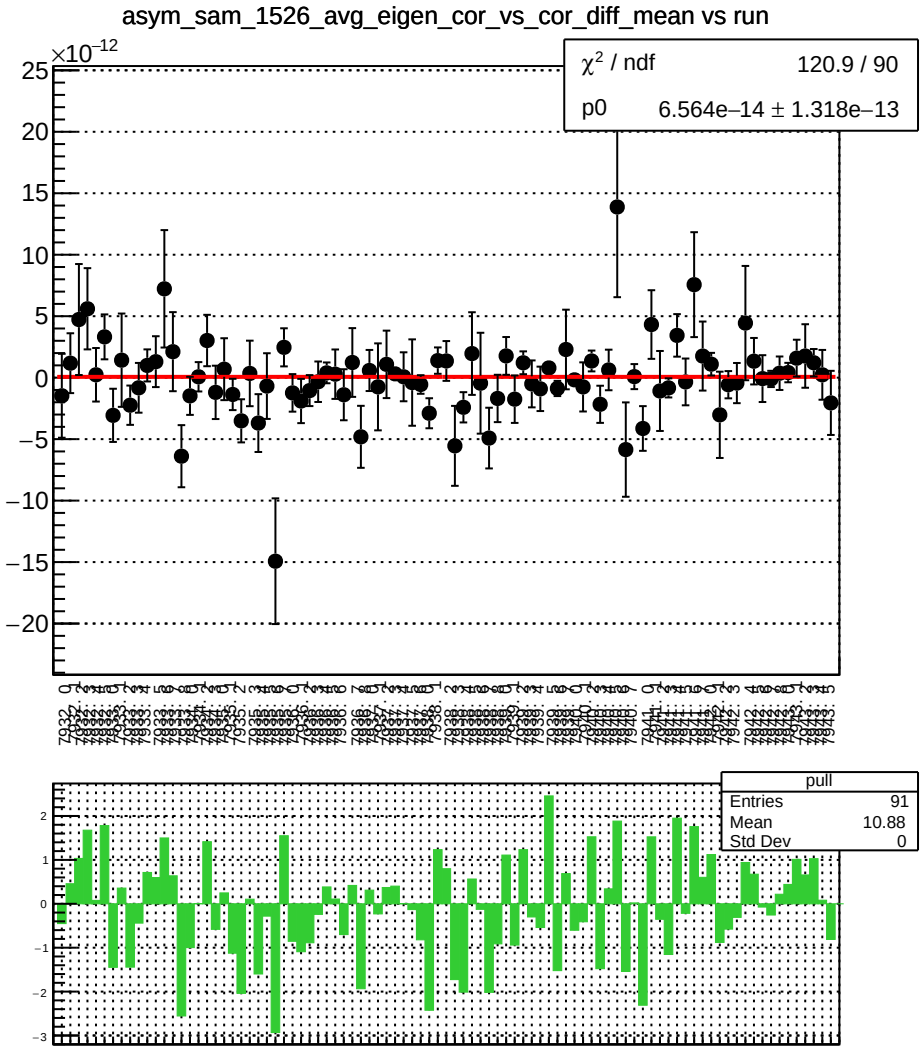

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1029 / 90
p0 0.002246 ± 1.699e−06
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021

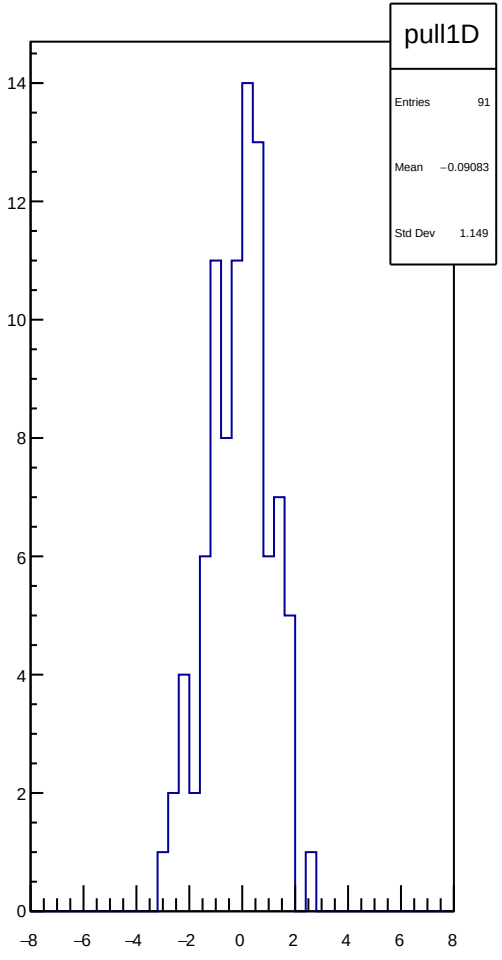

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.03717 ± 0.04479
pull
Entries 91
Mean 148.2
Std Dev 0
pull1D
Entries 91
Mean −0.02398
Std Dev 1.062

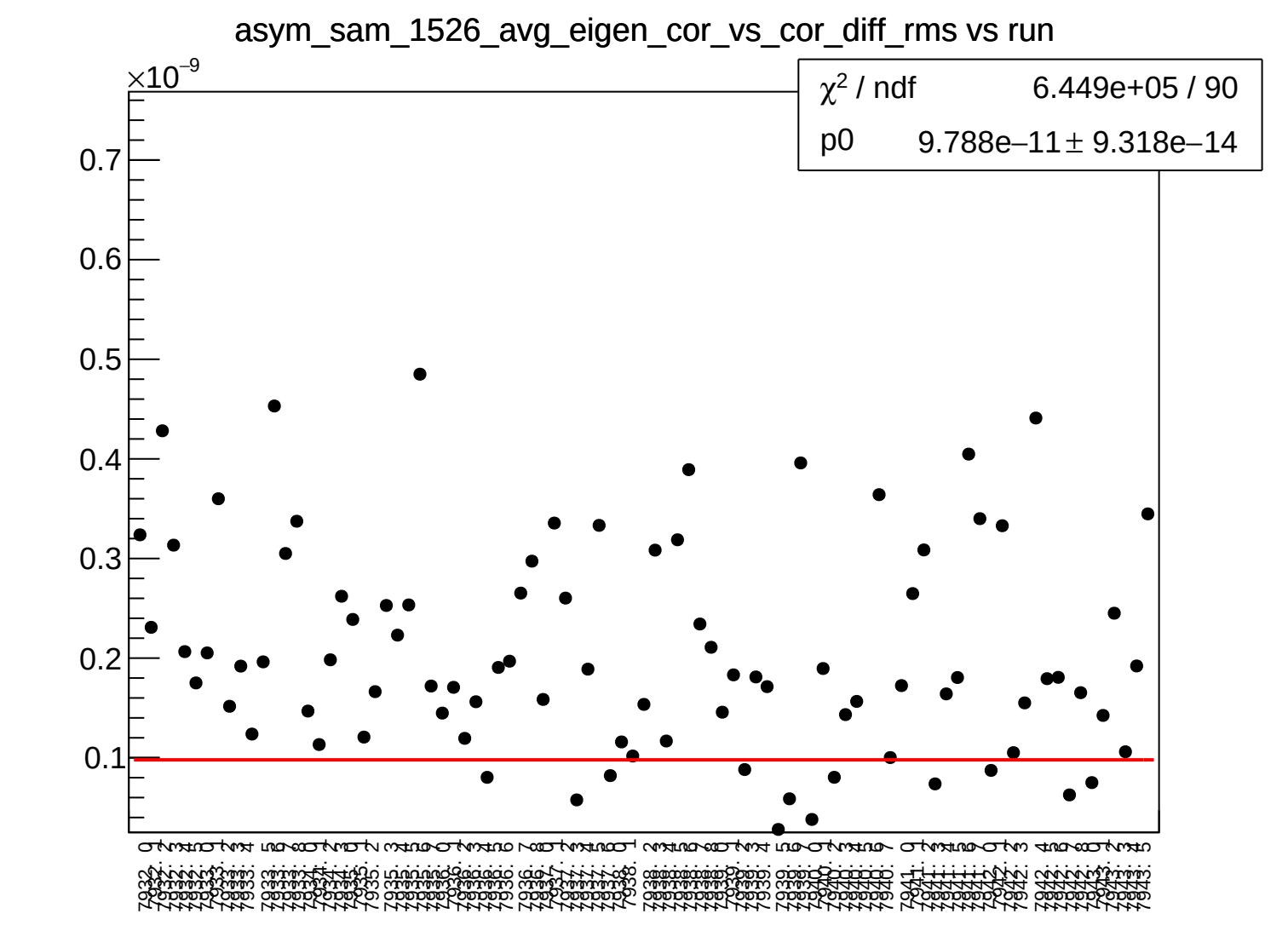

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.005e+04 / 90
p0 40.91 ± 0.03167
80
70
60
50
40
30

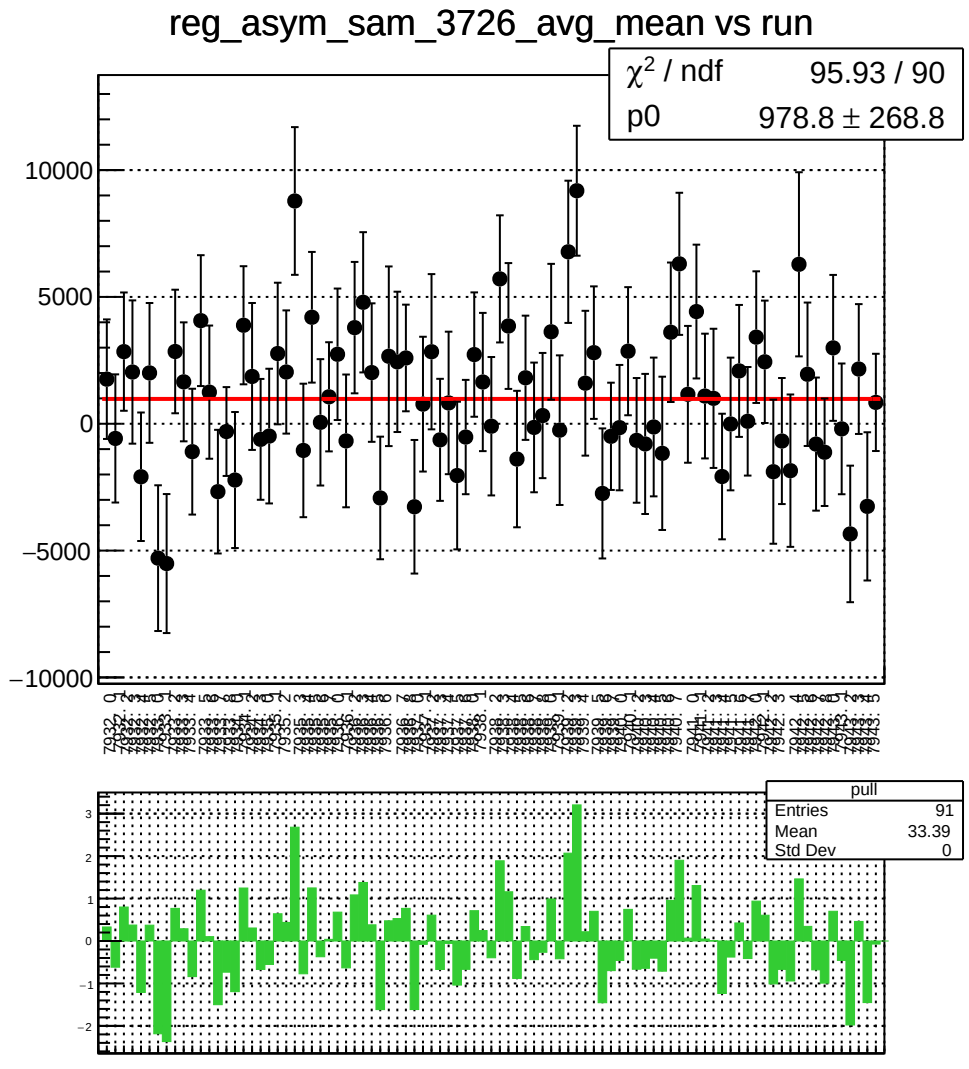

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 90
p0 0.03717 ± 0.04479
pull
Entries 91
Mean 148.2
Std Dev 0
pull1D
Entries 91
Mean −0.02398
Std Dev 1.062

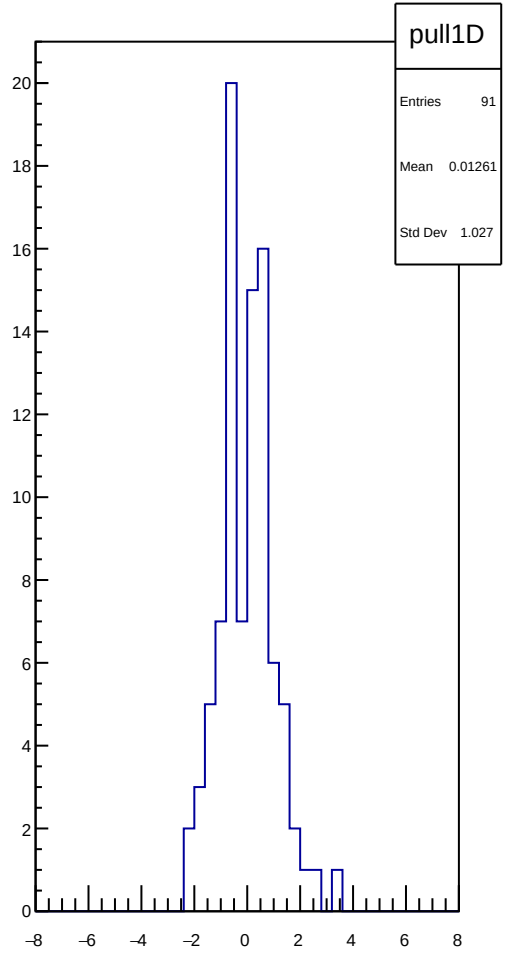

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.005e+04 / 90
p0 40.91 ± 0.03167
80
70
60
50
40
30

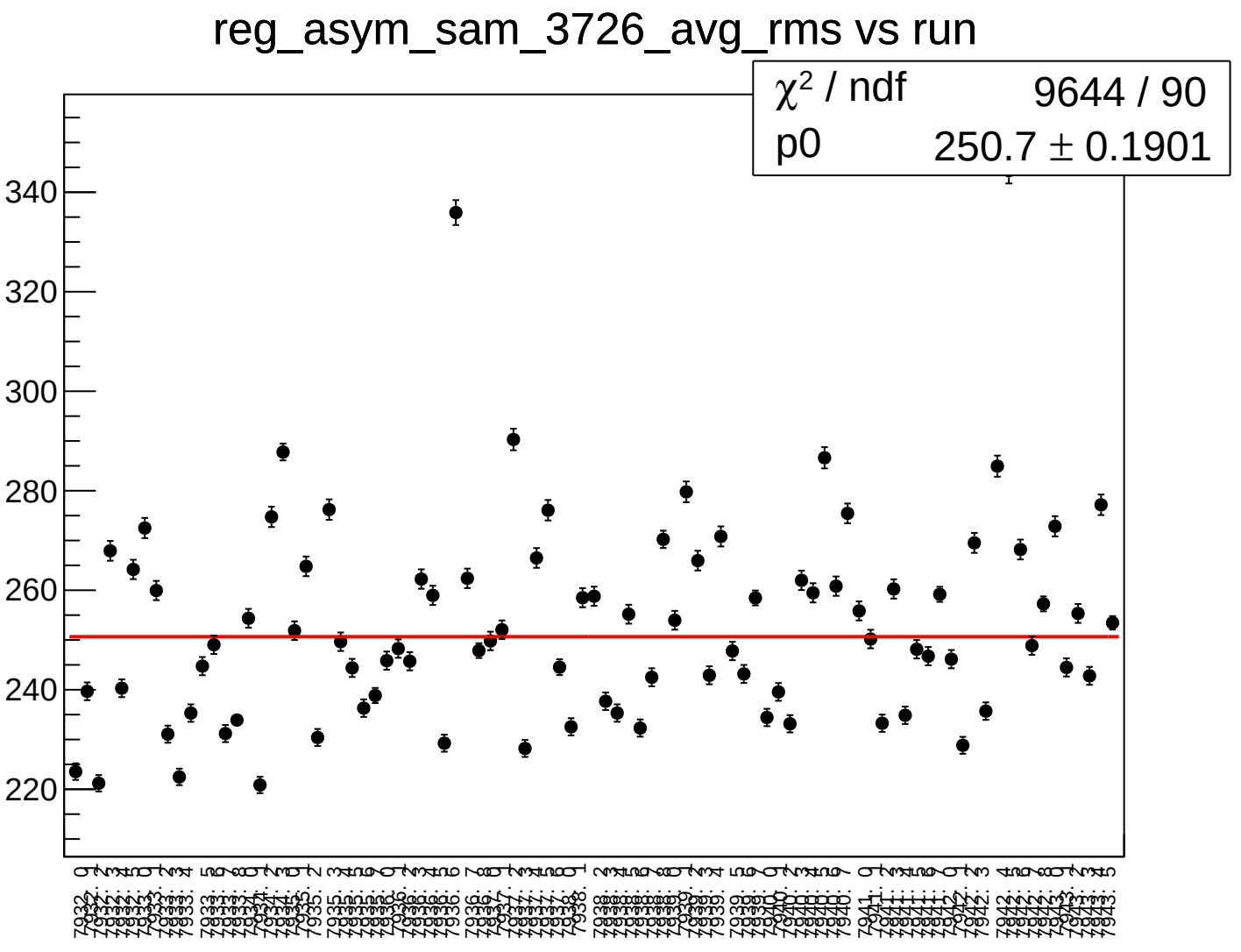

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 120.9 / 90
p0 6.564e−14 ± 1.318e−13
pull
Entries 91
Mean 10.88
Std Dev 0

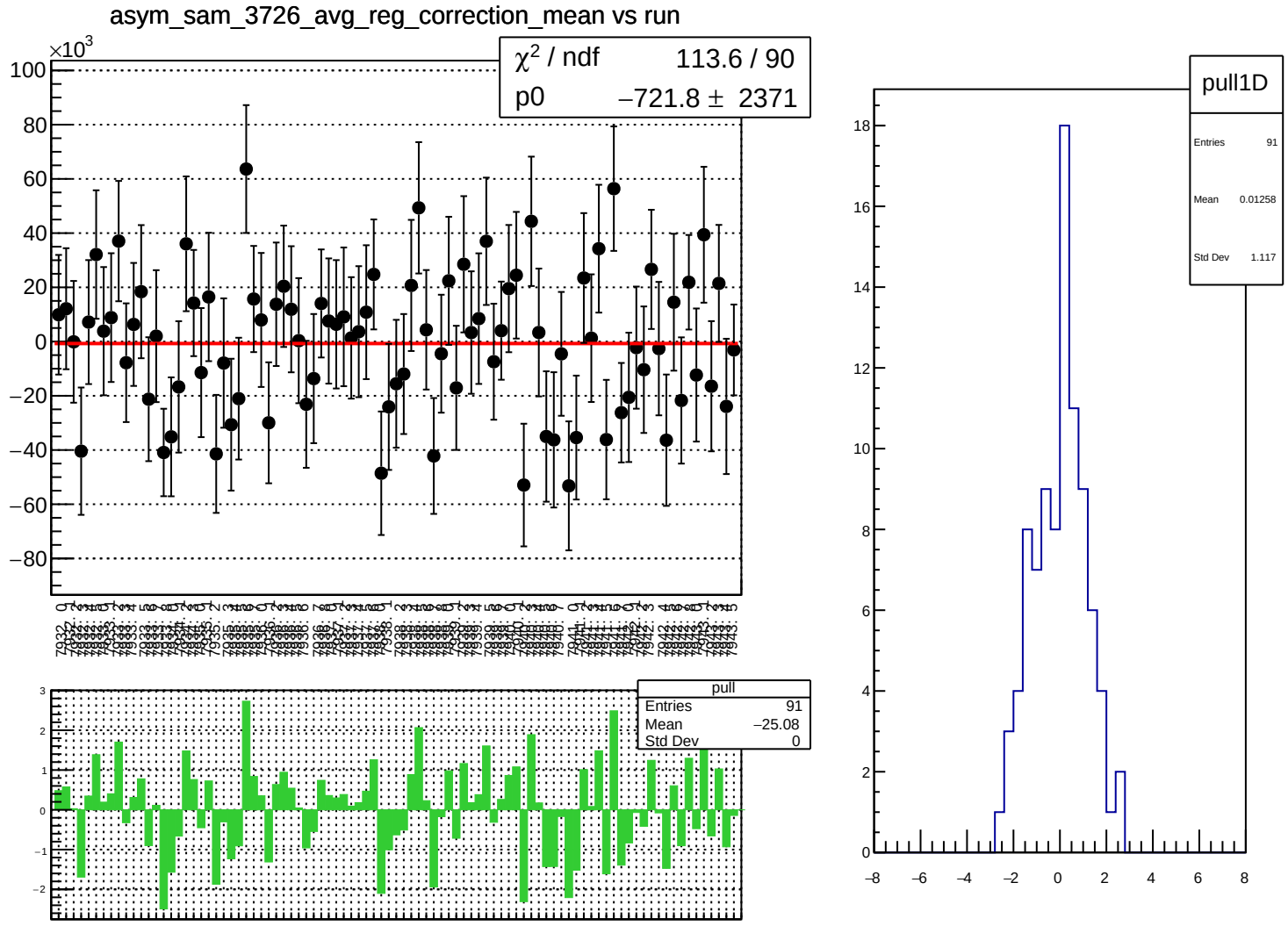

pull1D
Entries 91
Mean −0.09083
Std Dev 1.149

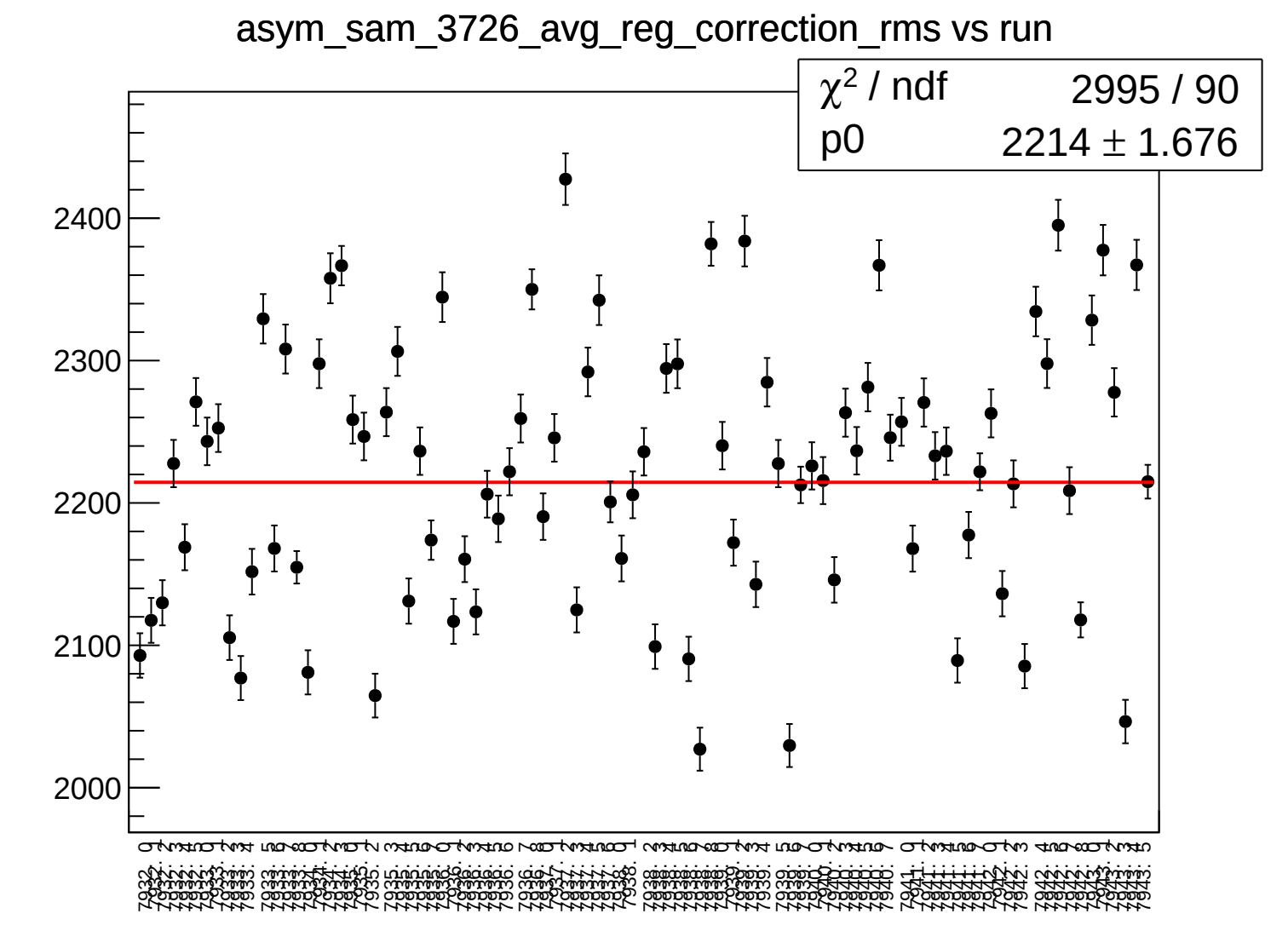

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.449e+05 / 90
p0 9.788e−11 ± 9.318e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

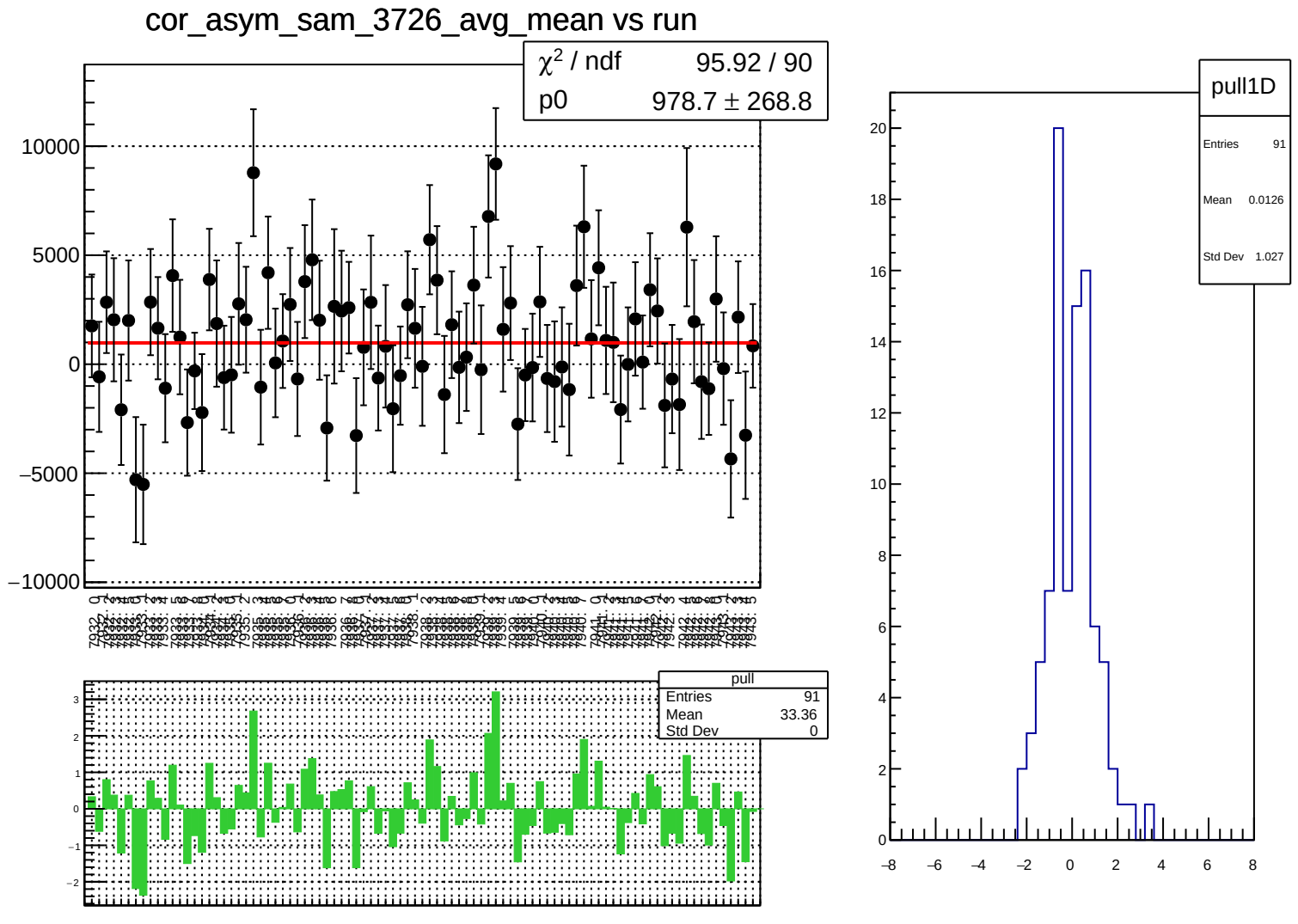

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 95.93 / 90
p0 978.8 ± 268.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 33.39
Std Dev 0
3
2
1
0
−1
−2

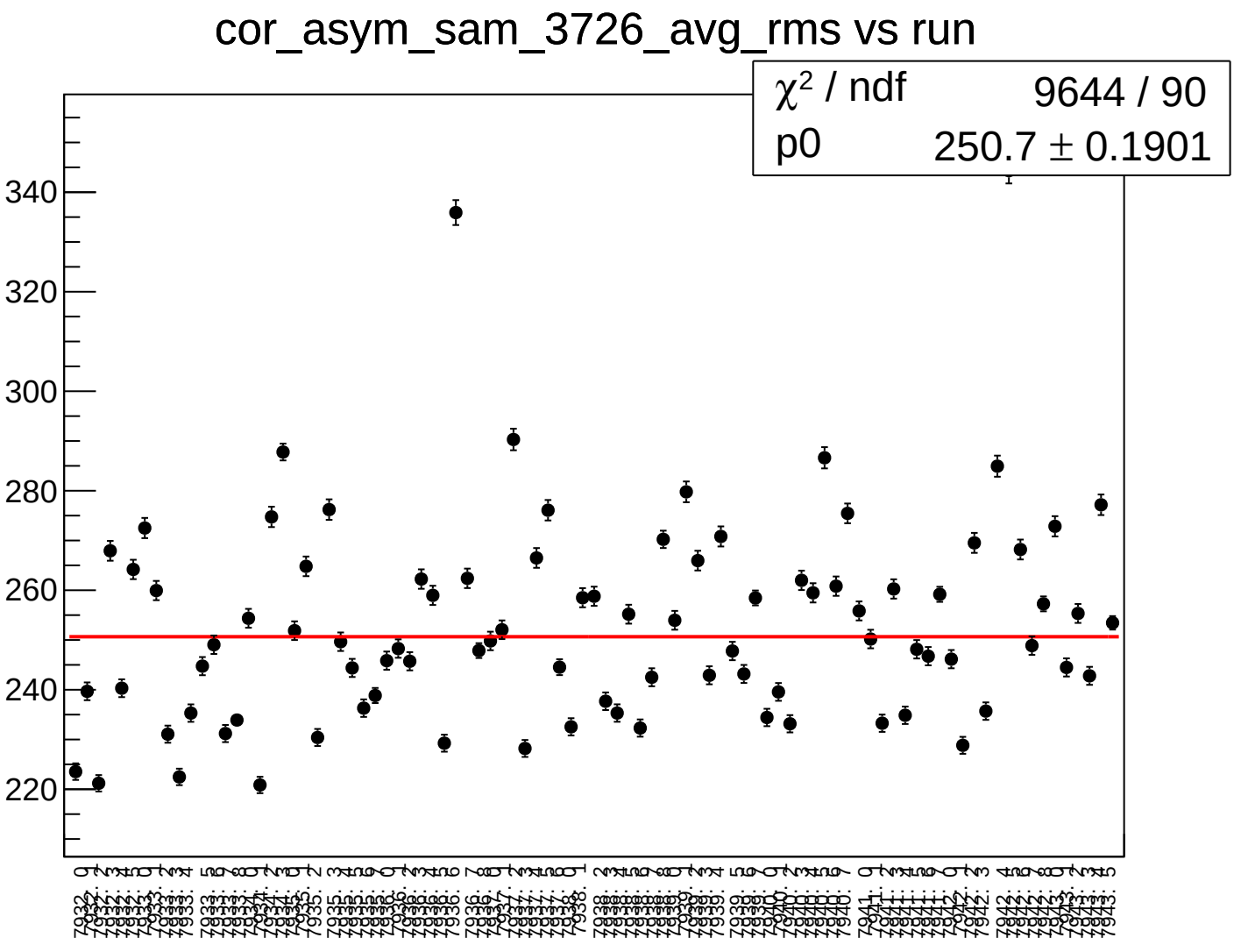

pull1D
Entries 91
Mean 0.01261
Std Dev 1.027
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

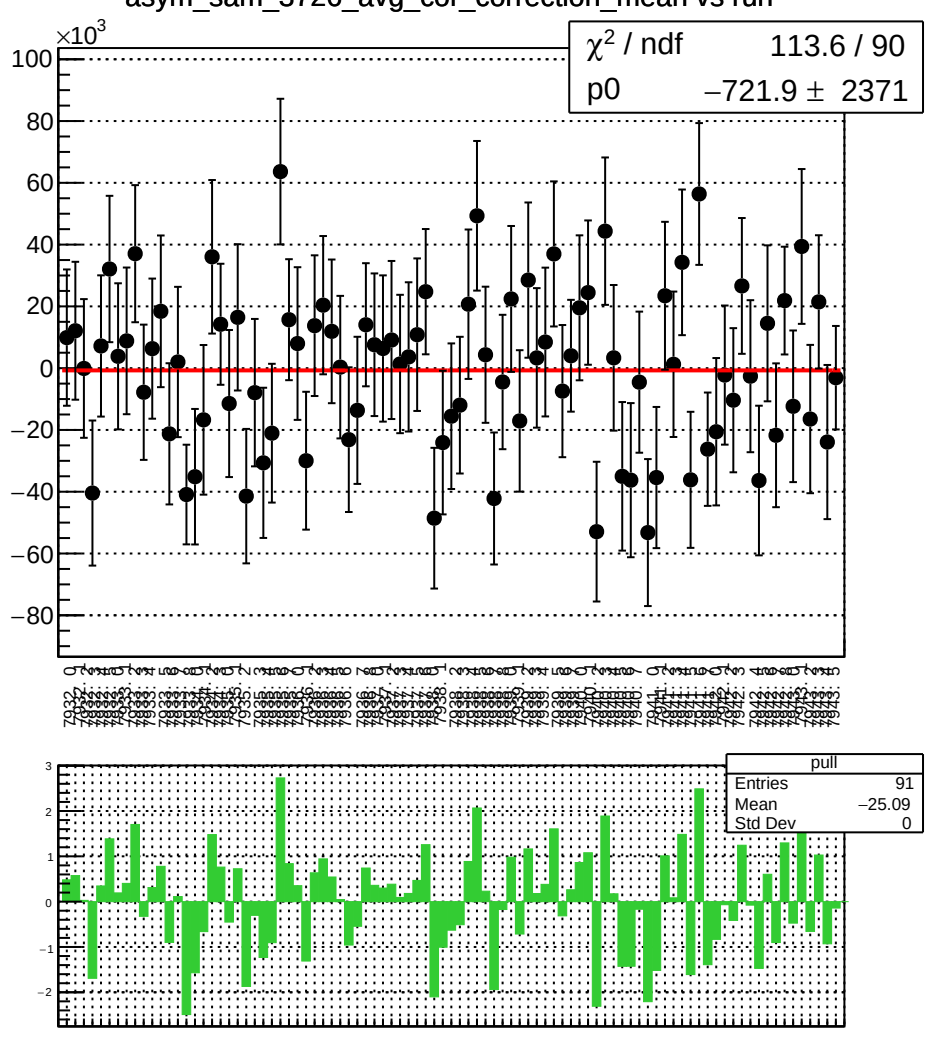

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 9644 / 90
p0 250.7 ± 0.1901
340
320
300
280
260
240
220

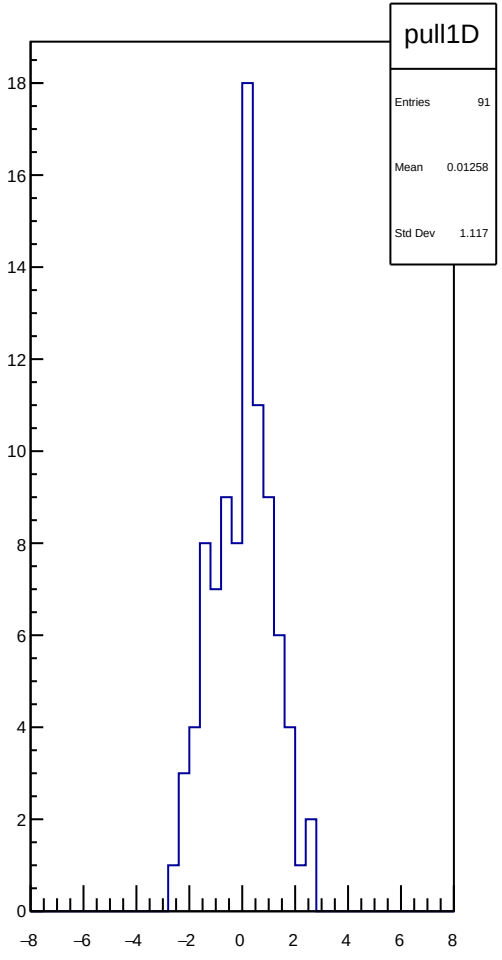

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 113.6 / 90
p0 −721.8 ± 2371
×10³
pull
Entries 91
Mean −25.08
Std Dev 0
pull1D
Entries 91
Mean 0.01258
Std Dev 1.117

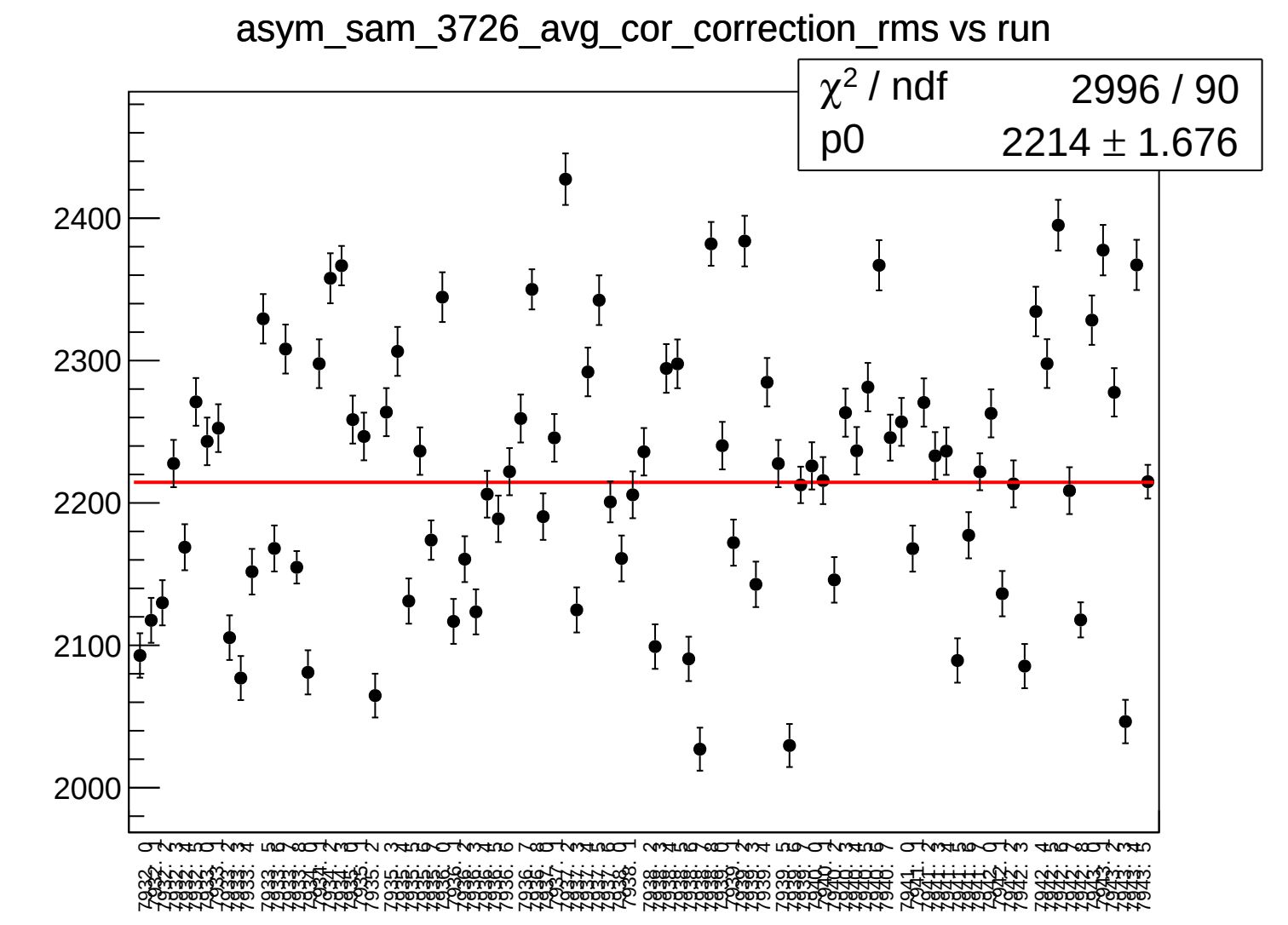

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2995 / 90
p0 2214 ± 1.676
2400
2300
2200
2100
2000

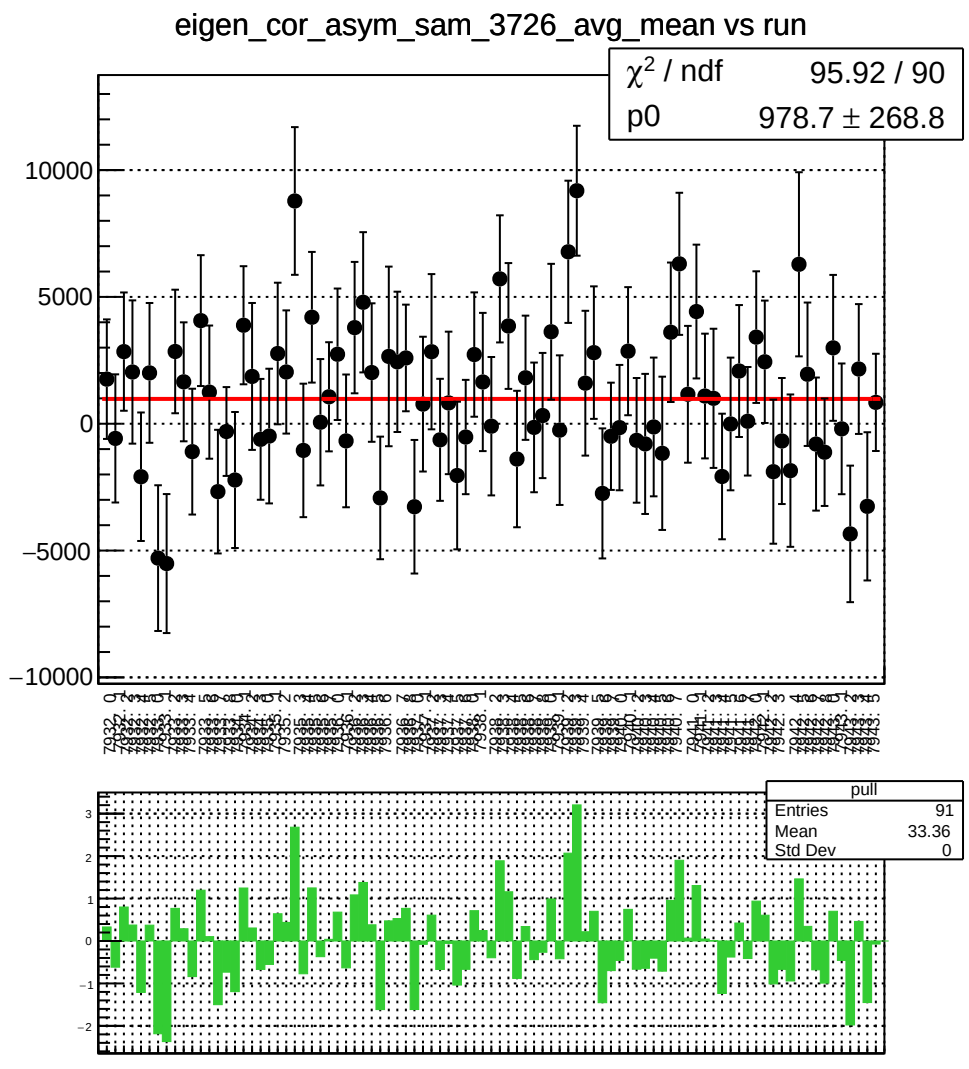

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 95.92 / 90
p0 978.7 ± 268.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 33.36
Std Dev 0
pull1D
Entries 91
Mean 0.0126
Std Dev 1.027

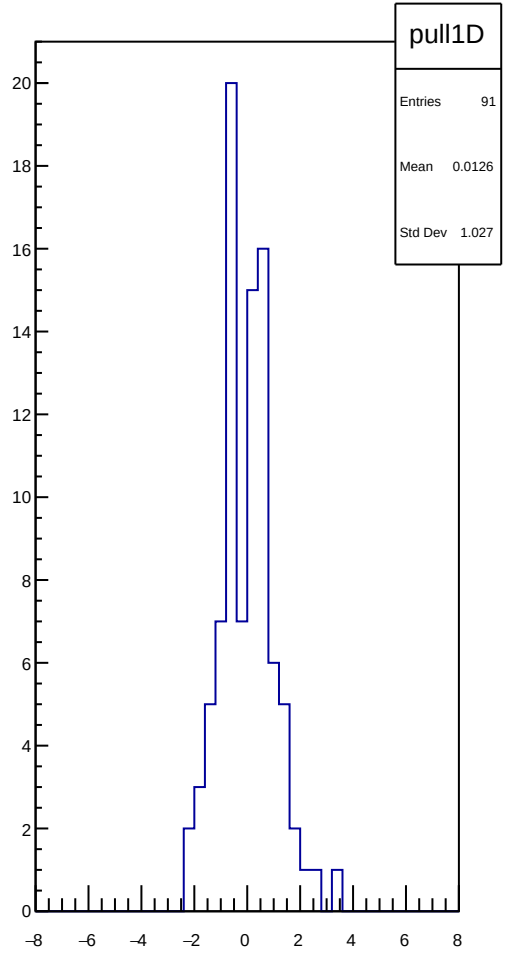

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 9644 / 90
p0 250.7 ± 0.1901
340
320
300
280
260
240
220

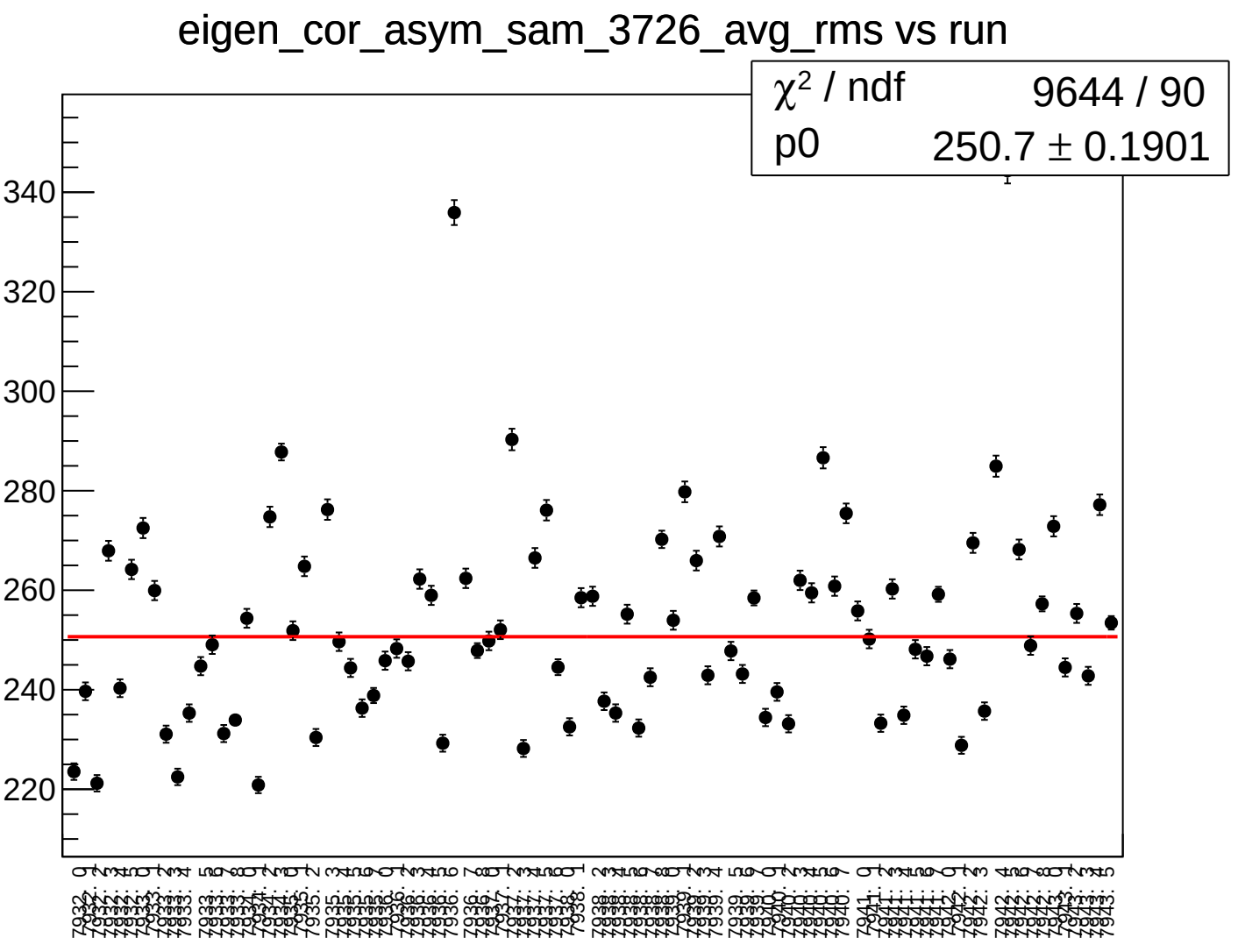

asym_sam_3726_avg_cor_correction_mean vs run
×10^3
χ² / ndf 113.6 / 90
p0 −721.9 ± 2371
pull
Entries 91
Mean −25.09
Std Dev 0

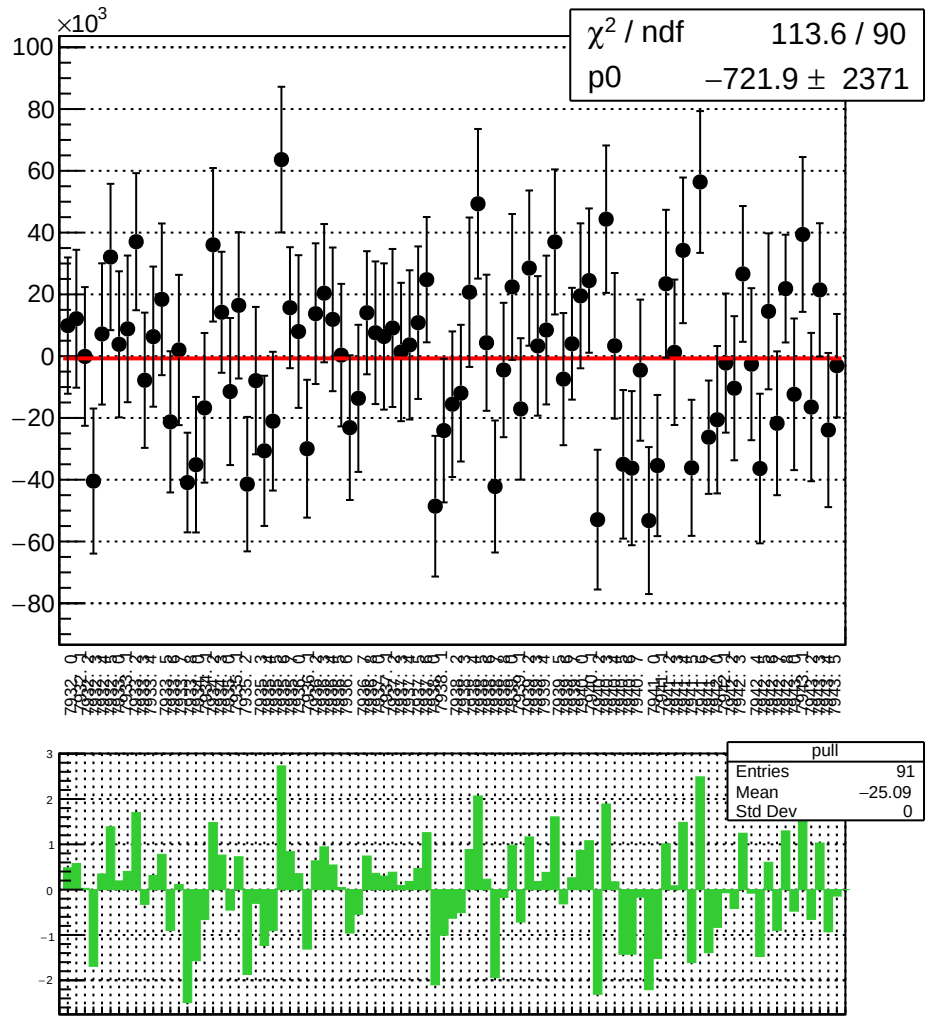

pull1D
Entries 91
Mean 0.01258
Std Dev 1.117

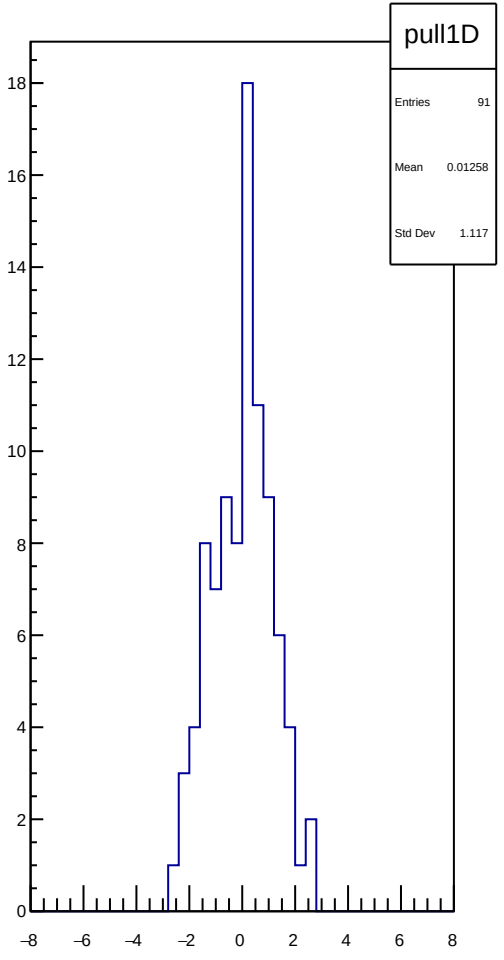

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2996 / 90
p0 2214 ± 1.676
2400
2300
2200
2100
2000

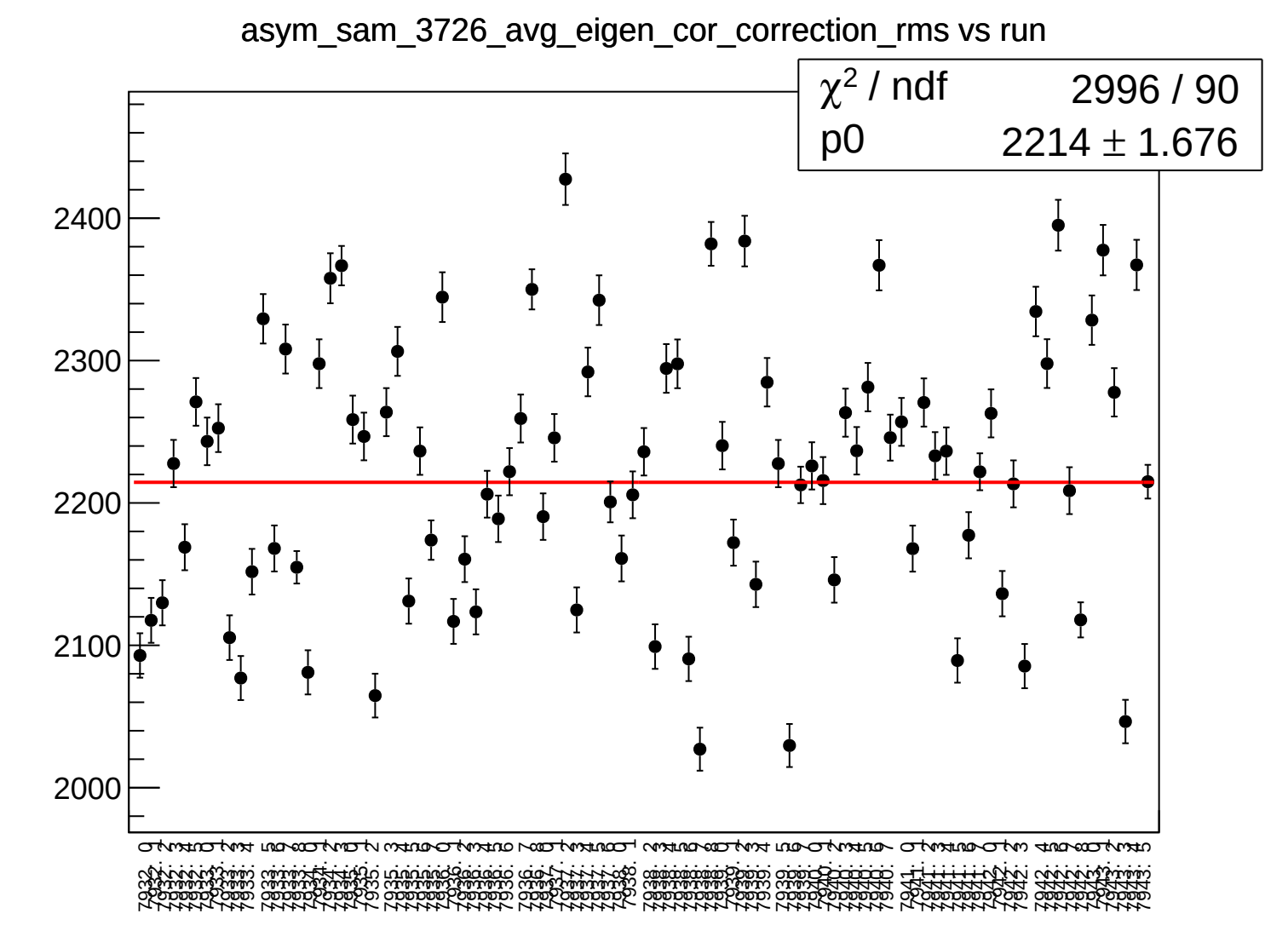

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 95.92 / 90
p0 978.7 ± 268.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 33.36
Std Dev 0
3
2
1
0
−1
−2

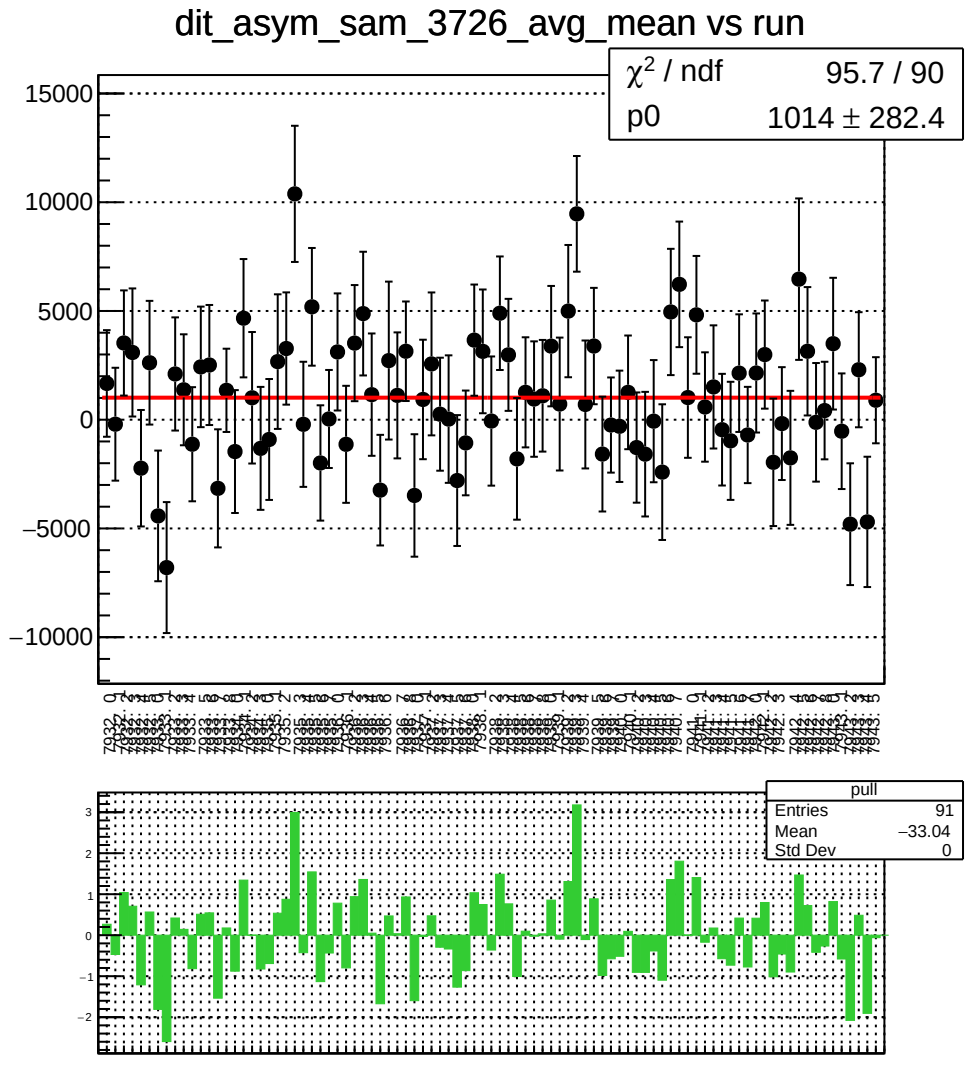

pull1D
Entries 91
Mean 0.0126
Std Dev 1.027
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

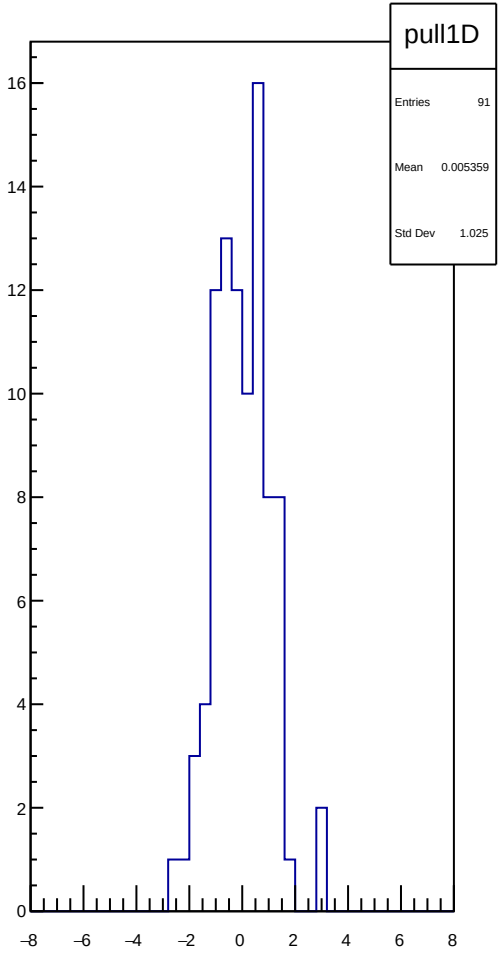

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 9644 / 90
p0 250.7 ± 0.1901
340
320
300
280
260
240
220

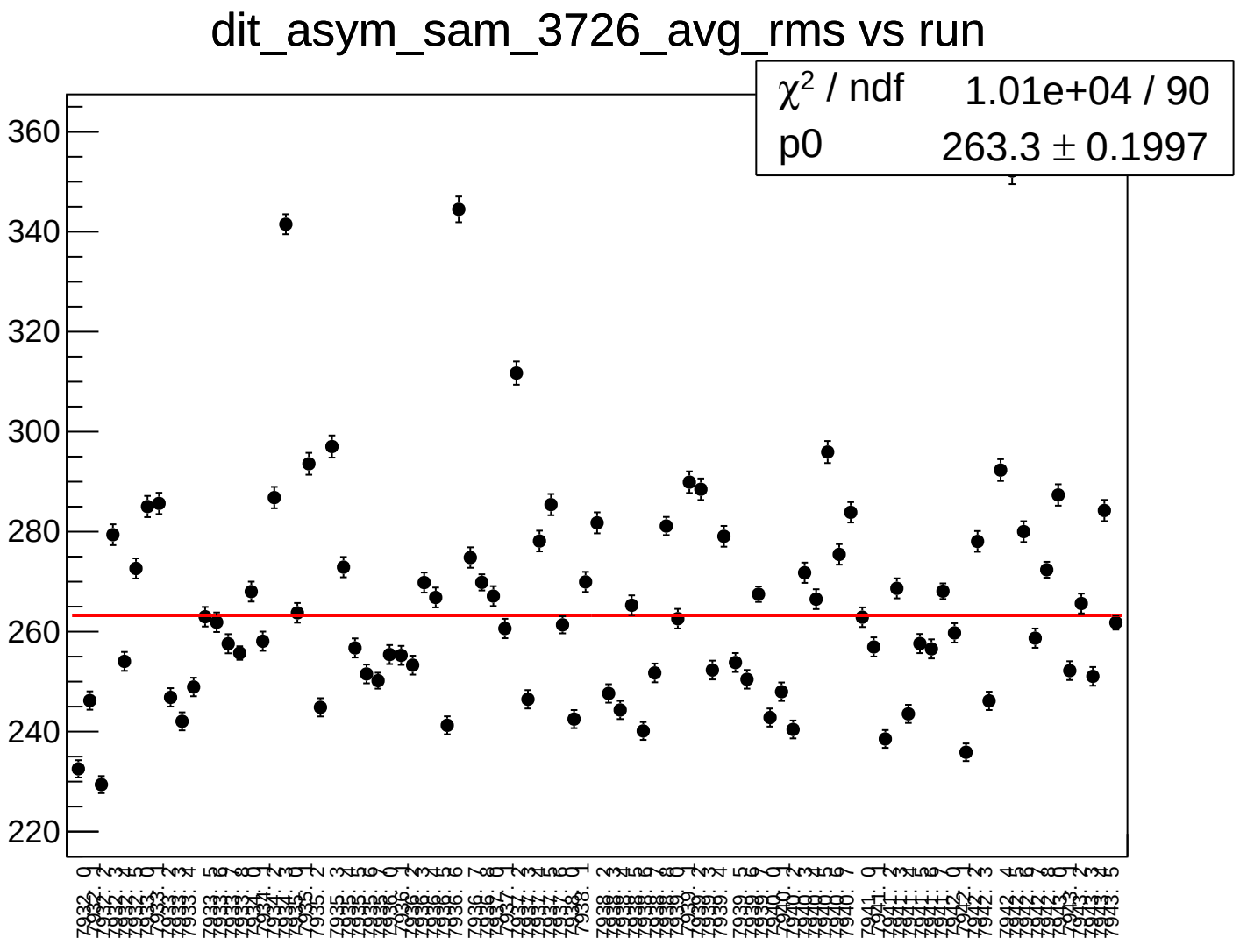

asym_sam_3726_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.6 / 90
p0 −721.9 ± 2371
pull
Entries 91
Mean −25.09
Std Dev 0

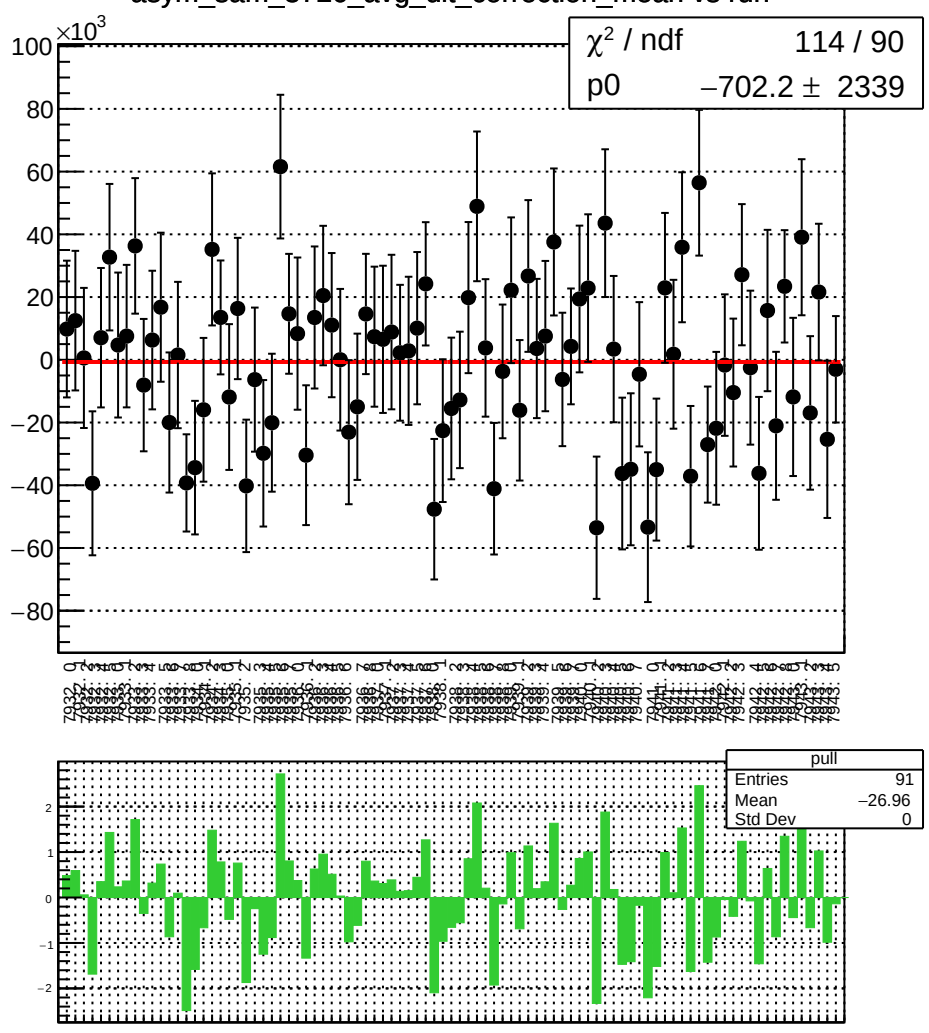

pull1D
Entries 91
Mean 0.01258
Std Dev 1.117

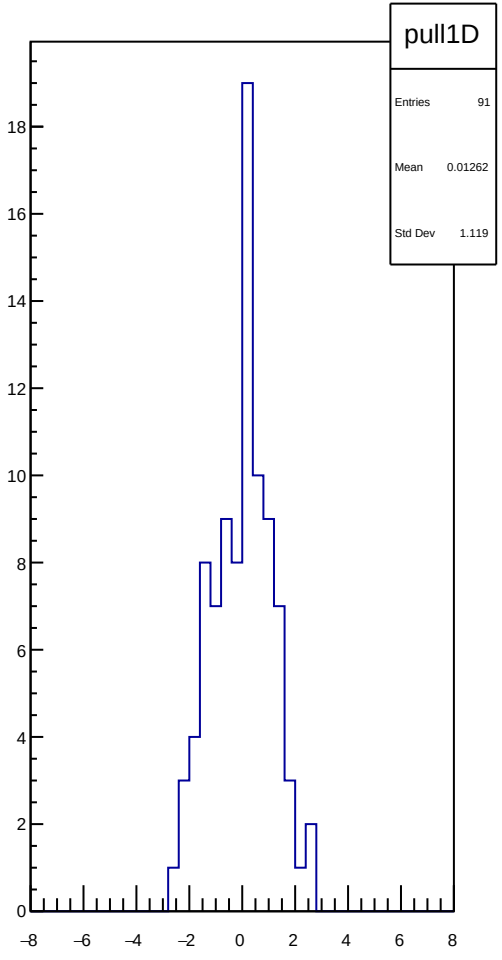

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2996 / 90
p0 2214 ± 1.676
2400
2300
2200
2100
2000

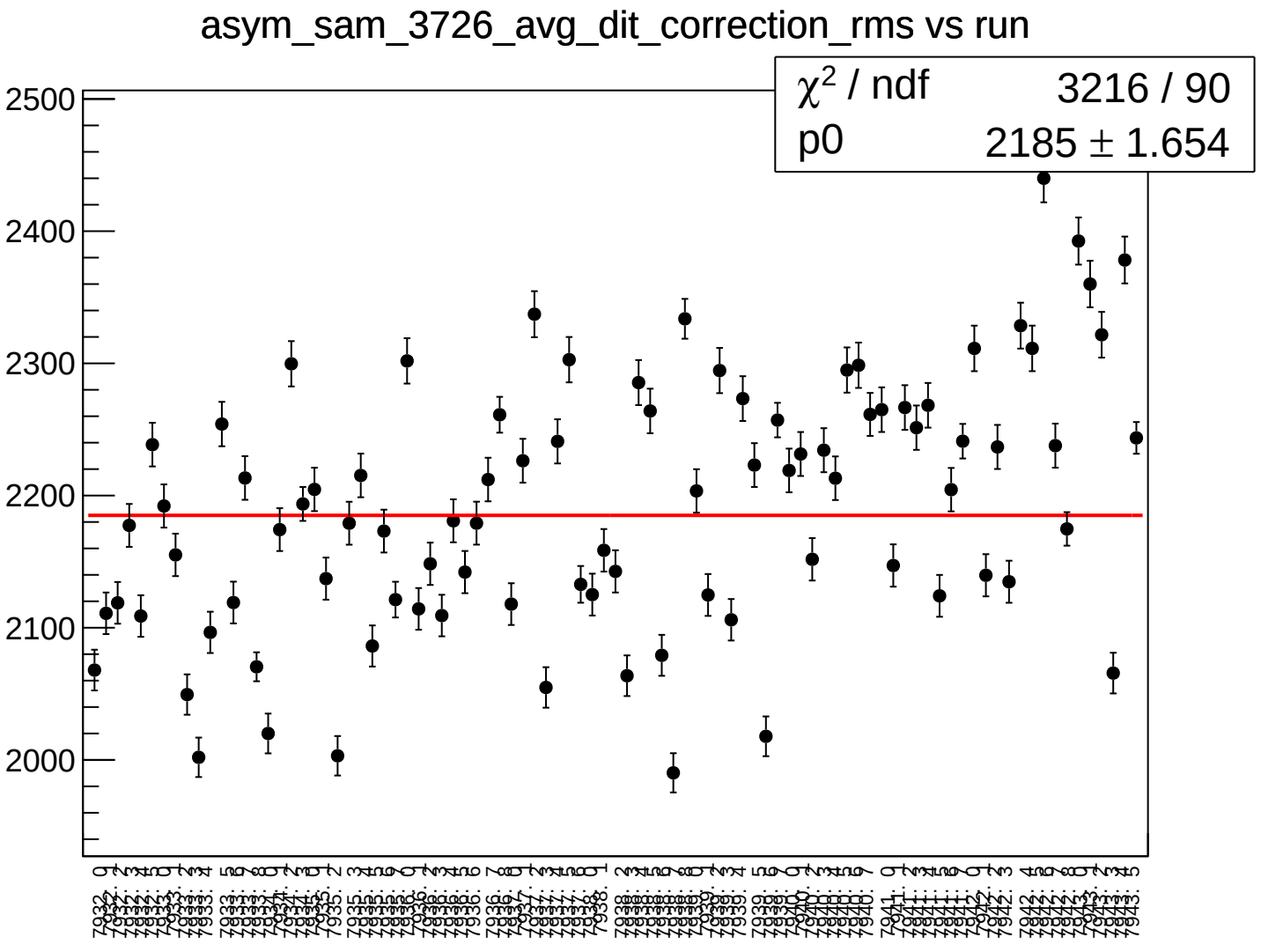

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 95.7 / 90
p0 1014 ± 282.4
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −33.04
Std Dev 0
3
2
1
0
−1
−2

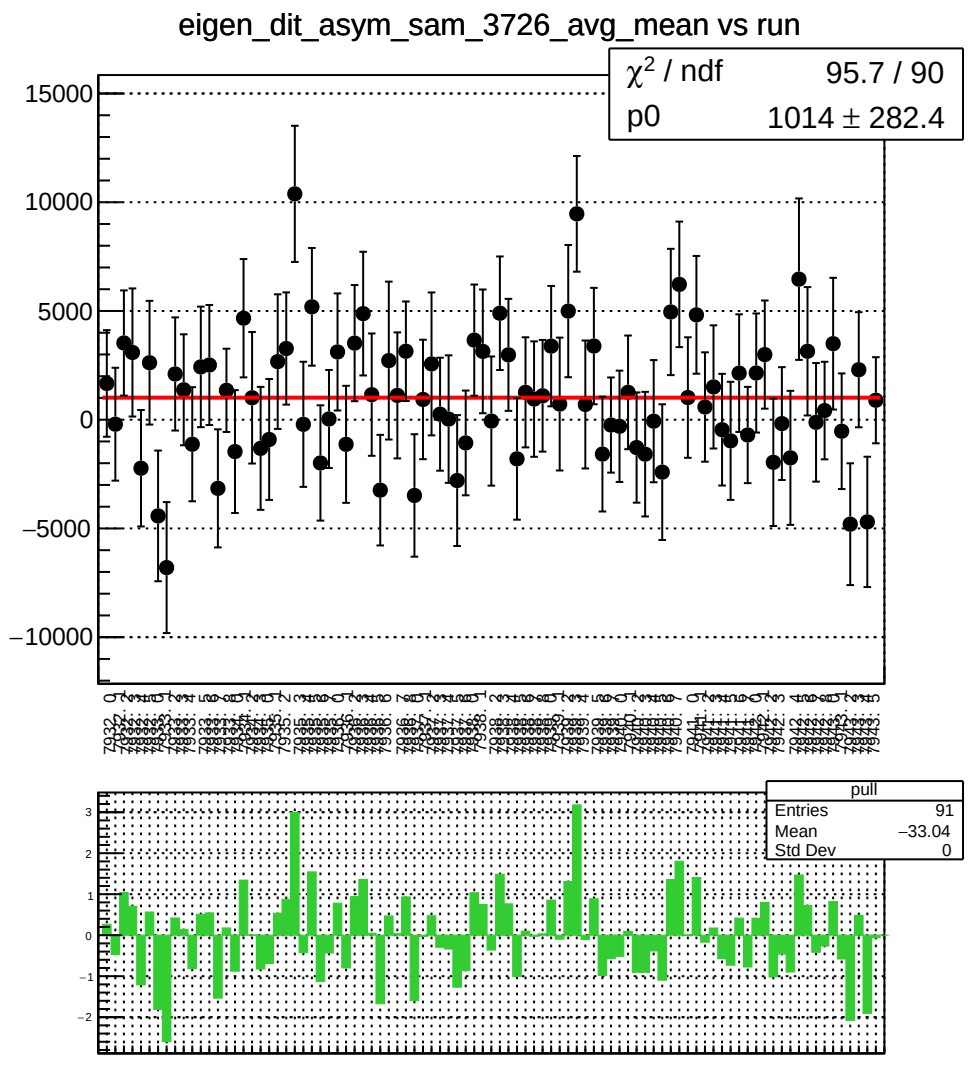

pull1D
Entries 91
Mean 0.005359
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

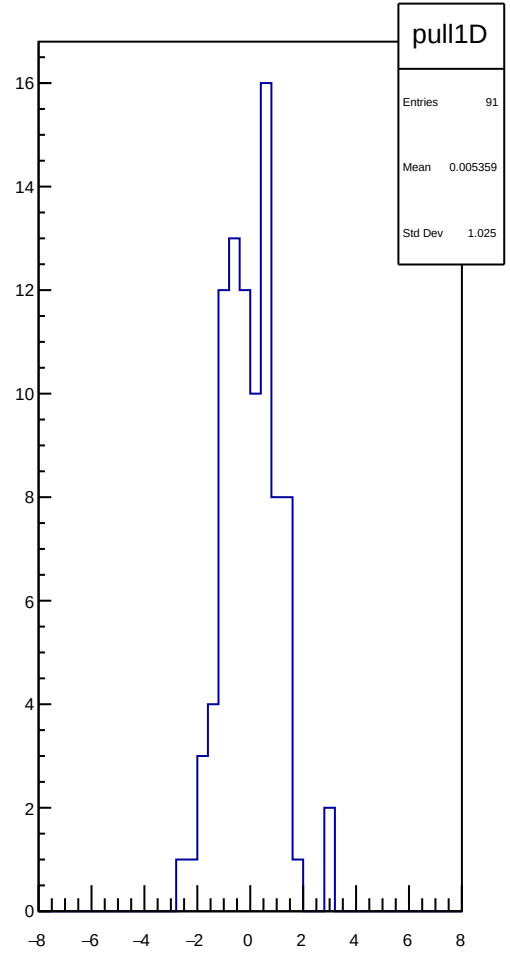

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.01e+04 / 90
p0 263.3 ± 0.1997
360
340
320
300
280
260
240
220

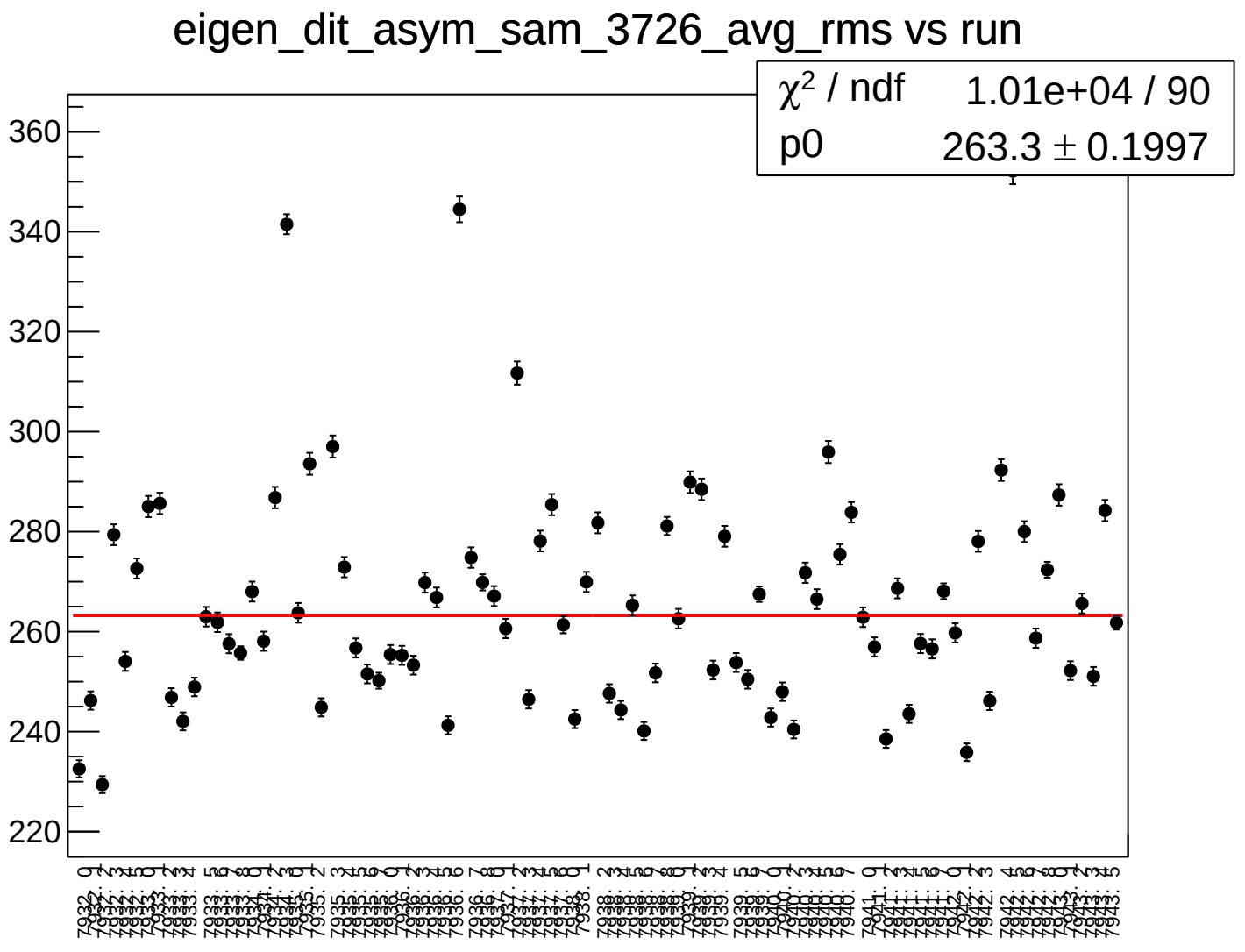

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 114 / 90
p0 −702.2 ± 2339
pull
Entries 91
Mean −26.96
Std Dev 0

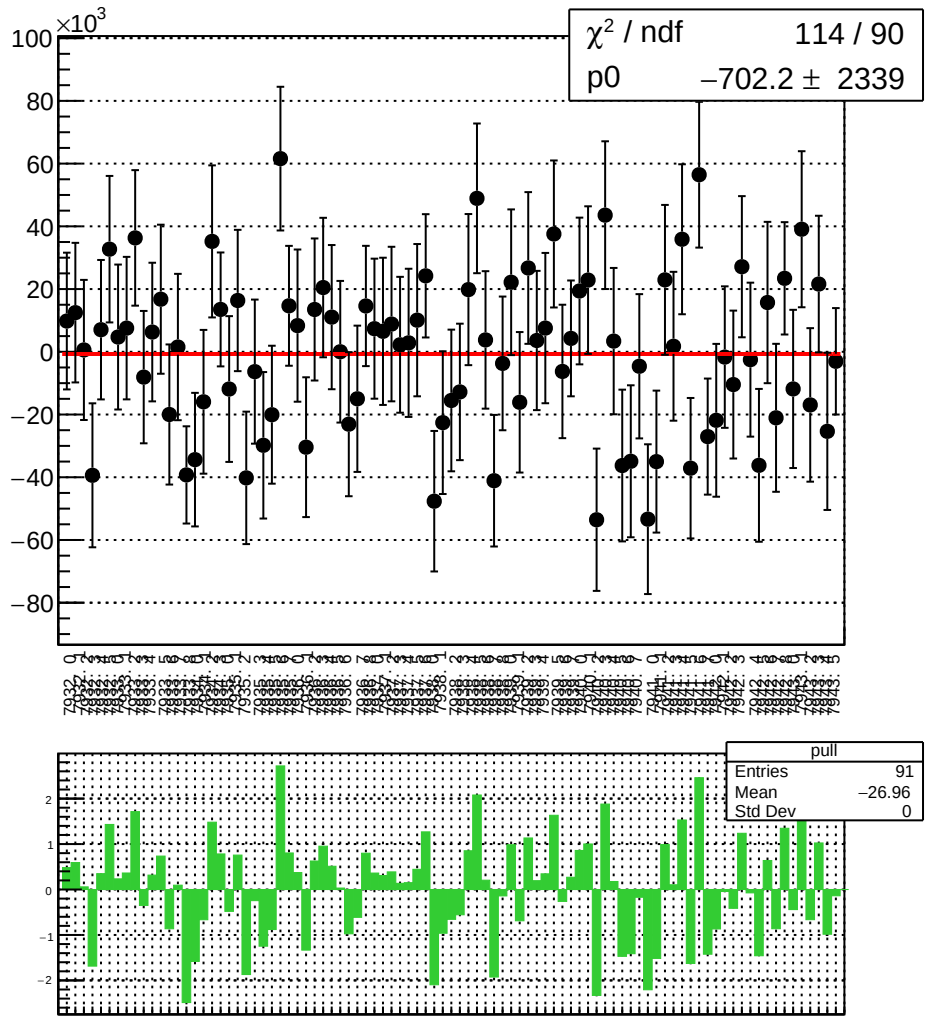

pull1D
Entries 91
Mean 0.01262
Std Dev 1.119

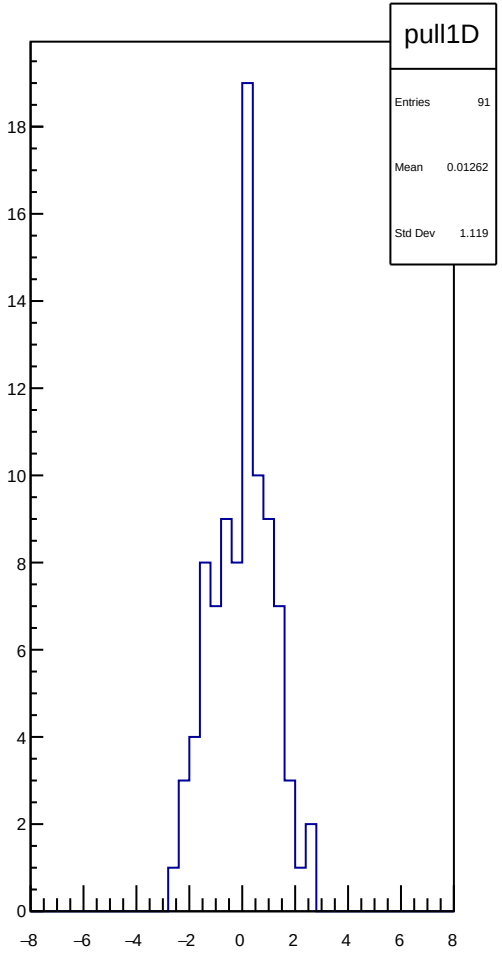

asym_sam_3726_avg_dit_correction_rms vs run
χ^2 / ndf 3216 / 90
p0 2185 ± 1.654
2500
2400
2300
2200
2100
2000

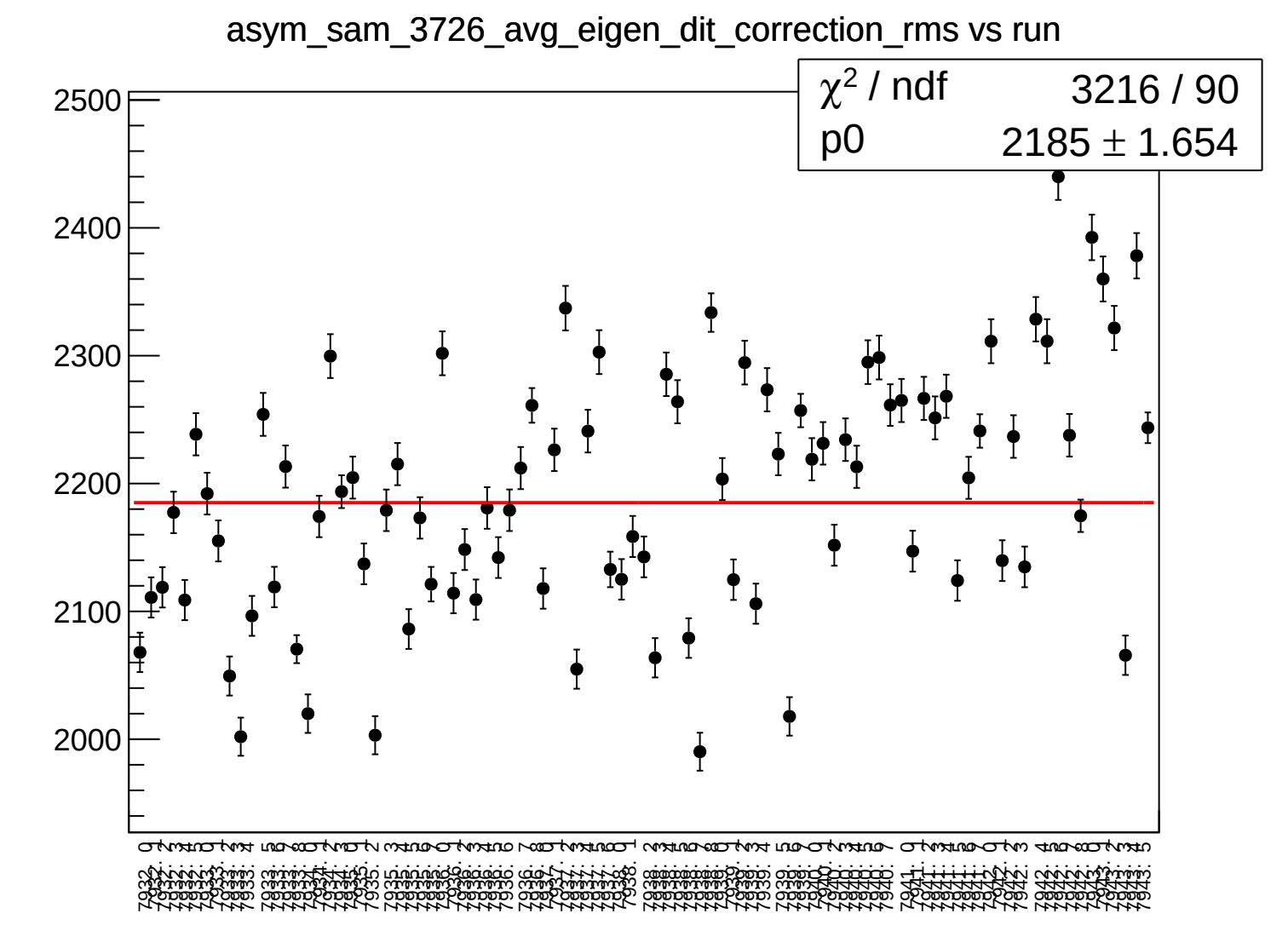

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 95.7 / 90
p0 1014 ± 282.4
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −33.04
Std Dev 0
3
2
1
0
−1
−2

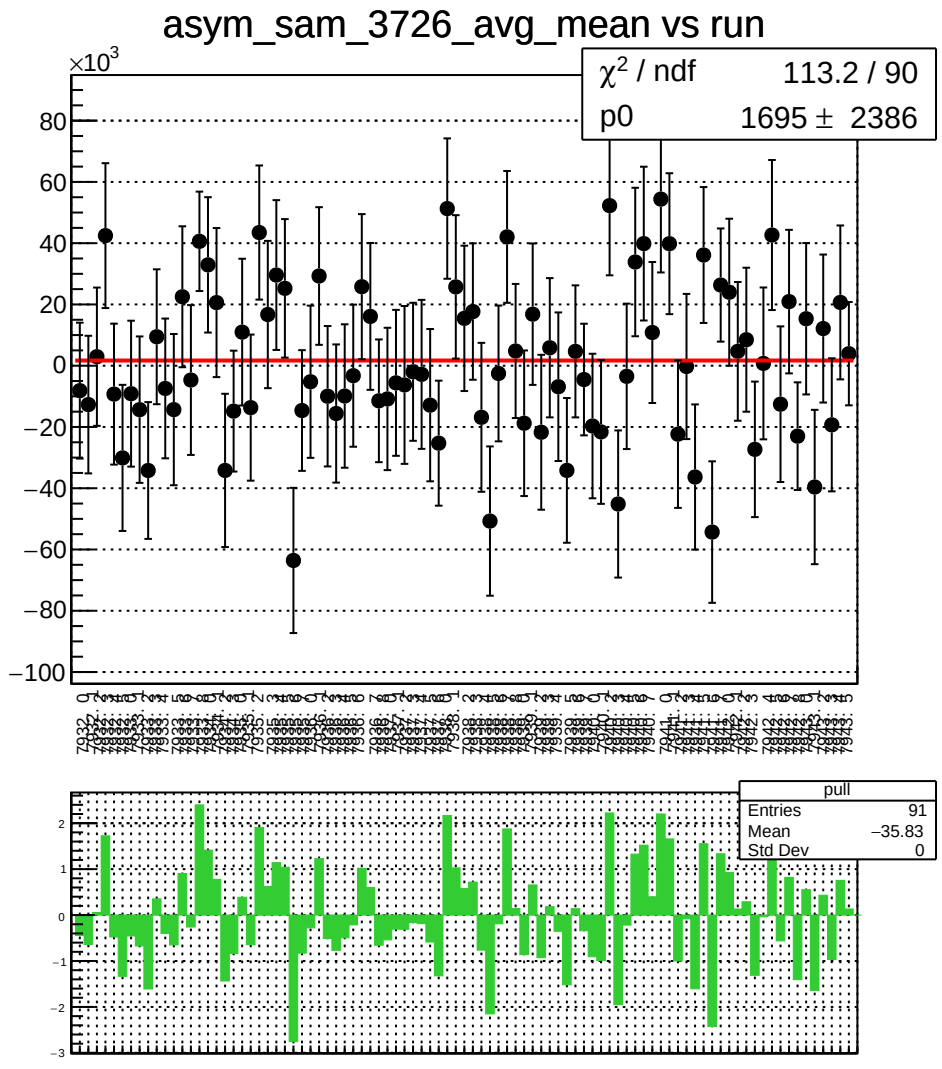

pull1D
Entries 91
Mean 0.005359
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

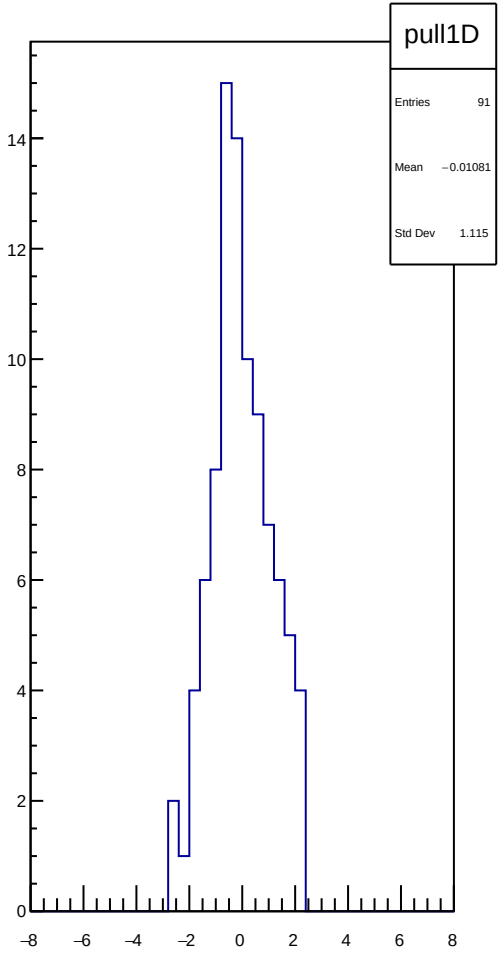

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.01e+04 / 90
p0 263.3 ± 0.1997
360
340
320
300
280
260
240
220

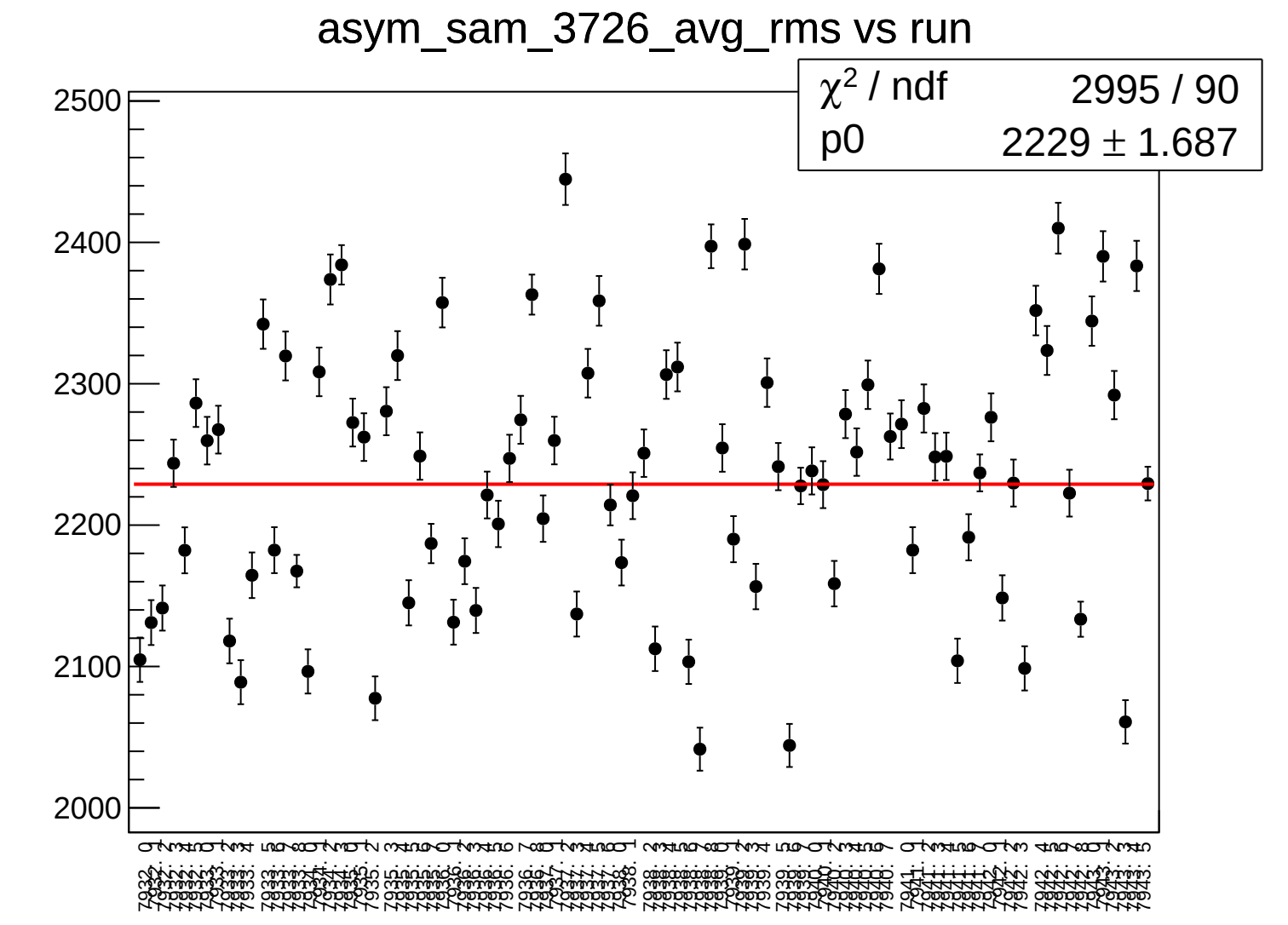

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 114 / 90
p0 −702.2 ± 2339
×10³
pull
Entries 91
Mean −26.96
Std Dev 0

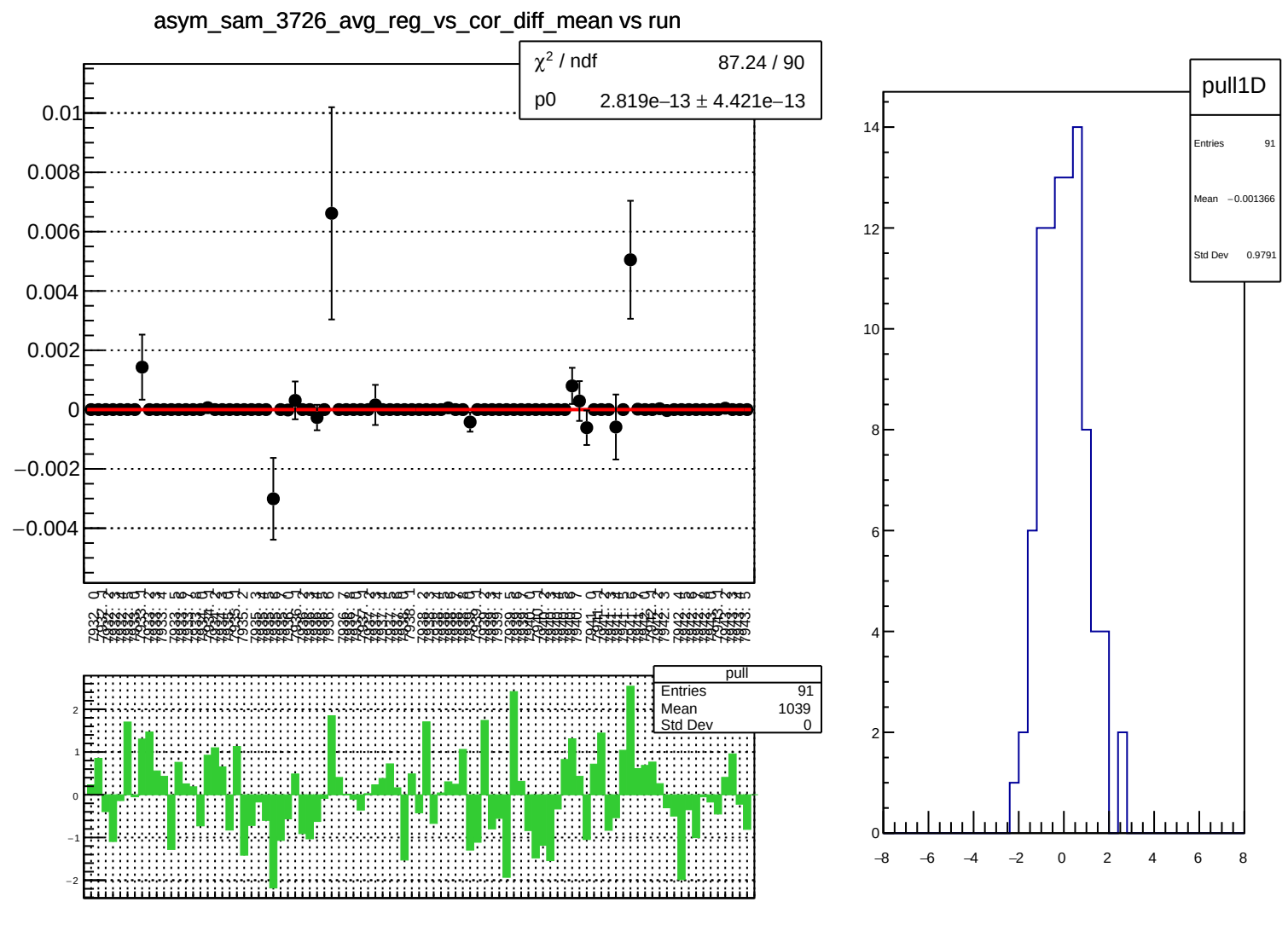

pull1D
Entries 91
Mean 0.01262
Std Dev 1.119

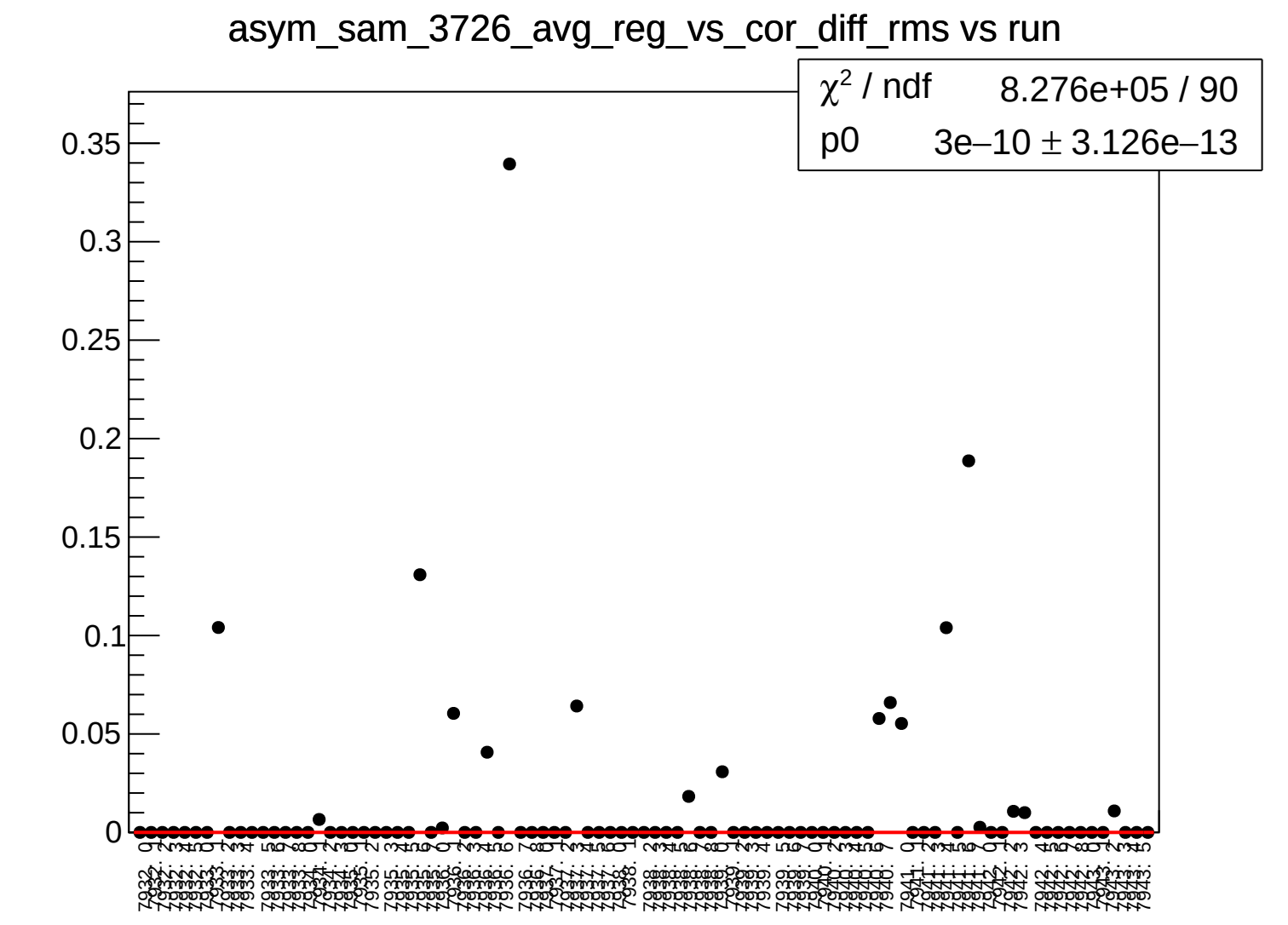

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3216 / 90
p0 2185 ± 1.654
2500
2400
2300
2200
2100
2000

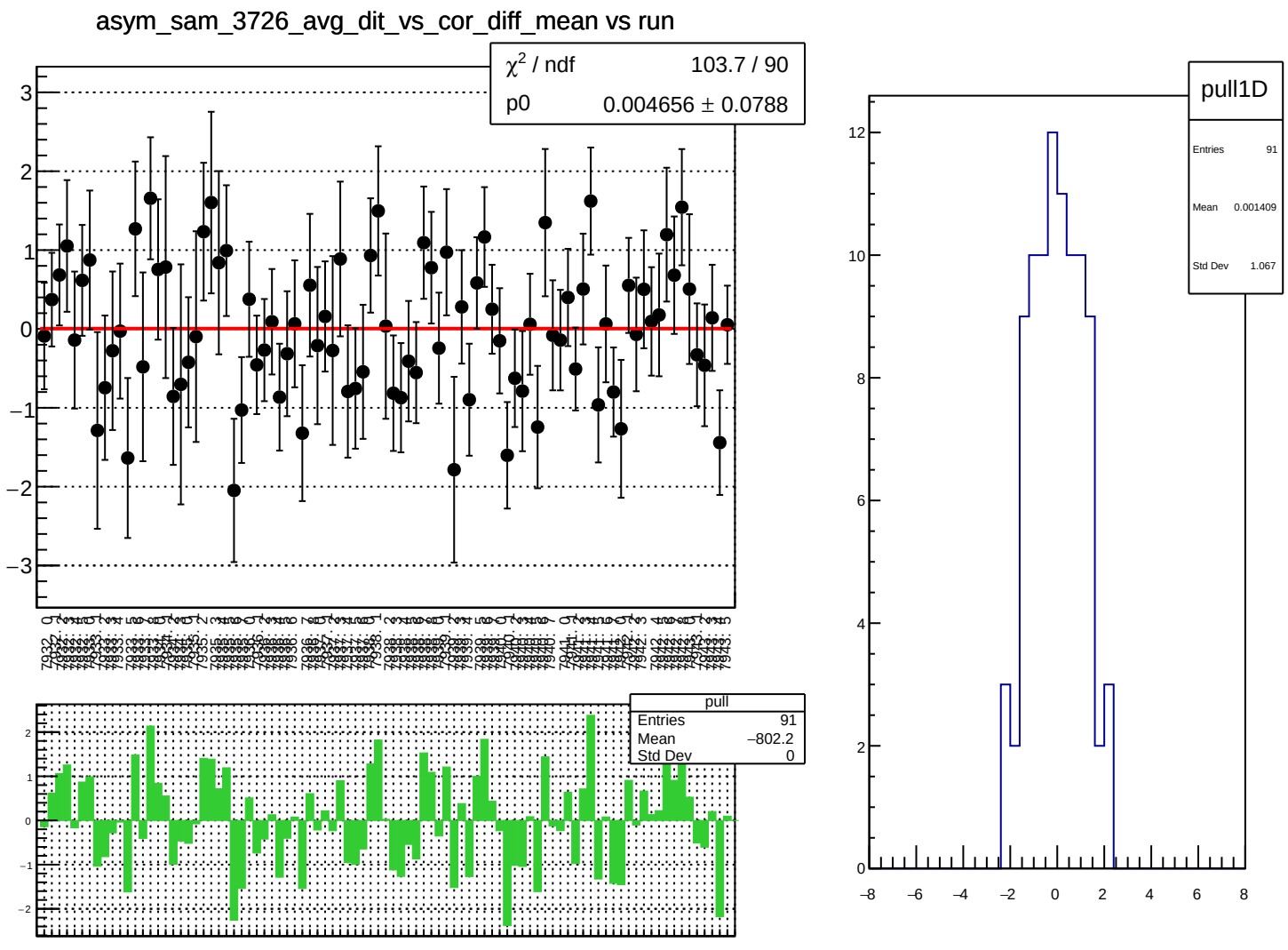

asym_sam_3726_avg_mean vs run
×10^3
χ^2 / ndf 113.2 / 90
p0 1695 ± 2386
pull
Entries 91
Mean −35.83
Std Dev 0

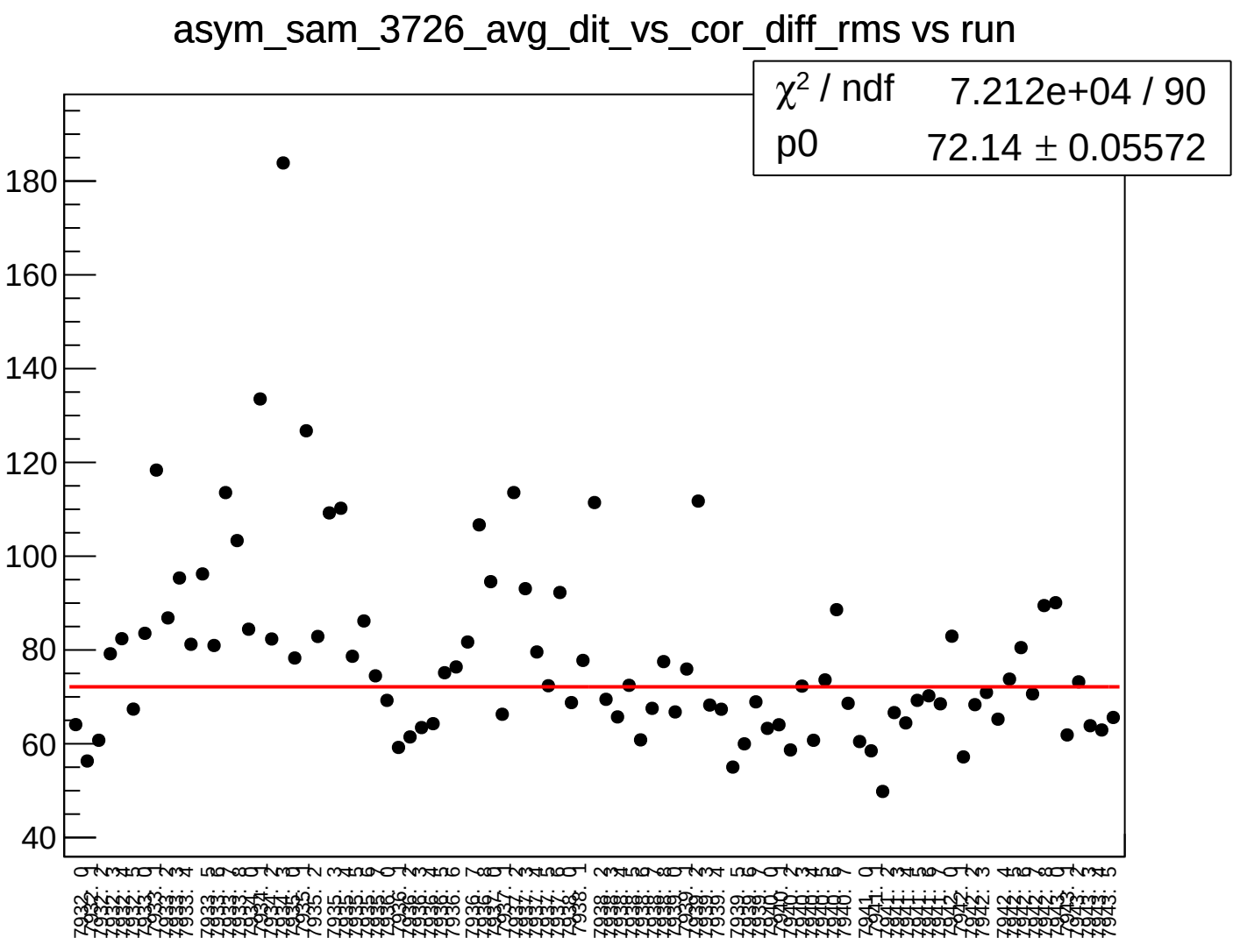

pull1D
Entries 91
Mean −0.01081
Std Dev 1.115

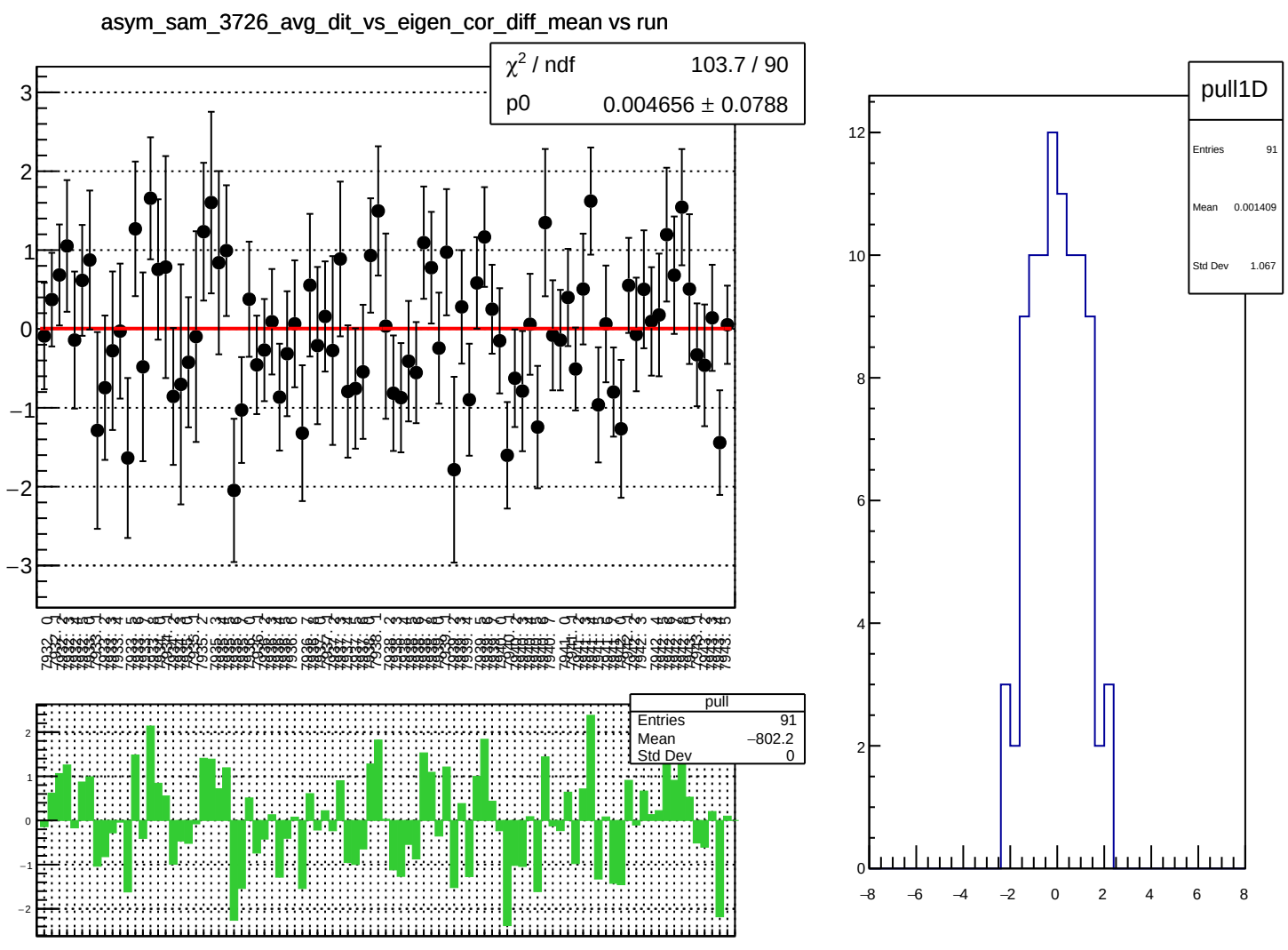

asym_sam_3726_avg_rms vs run
χ² / ndf 2995 / 90
p0 2229 ± 1.687
2500
2400
2300
2200
2100
2000

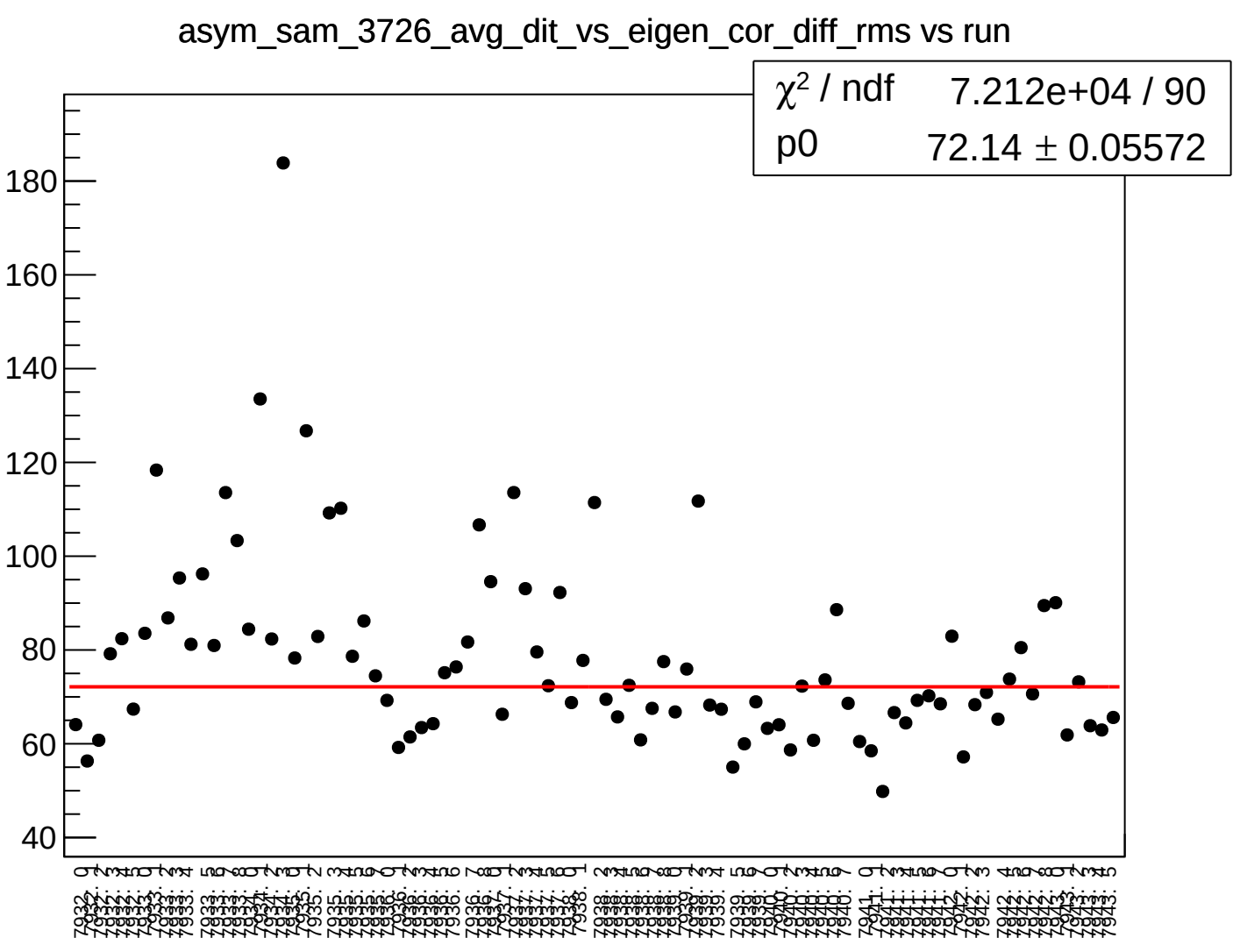

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.24 / 90
p0 2.819e−13 ± 4.421e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 91
Mean 1039
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001366
Std Dev 0.9791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

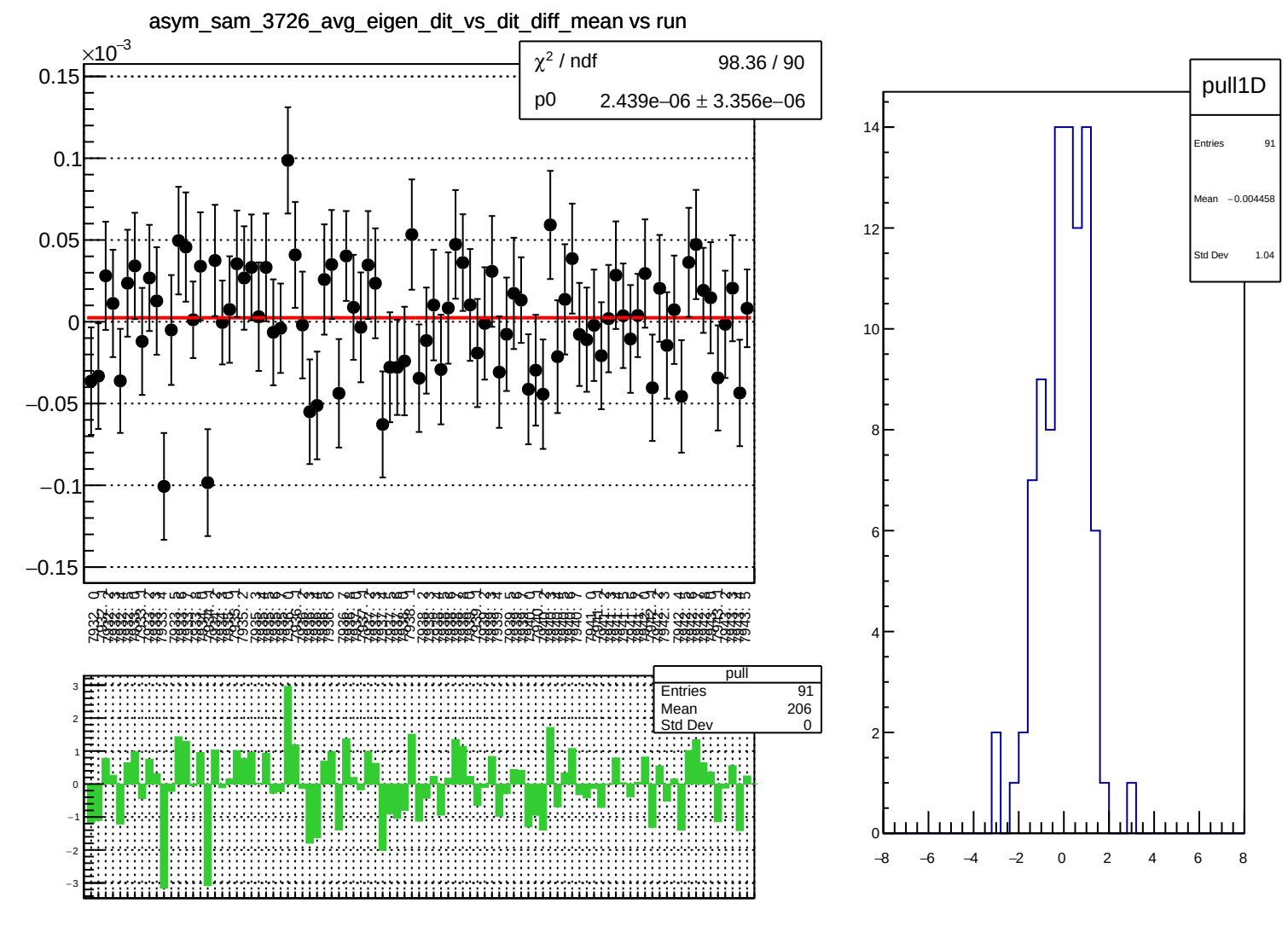

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.276e+05 / 90
p0 3e−10 ± 3.126e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

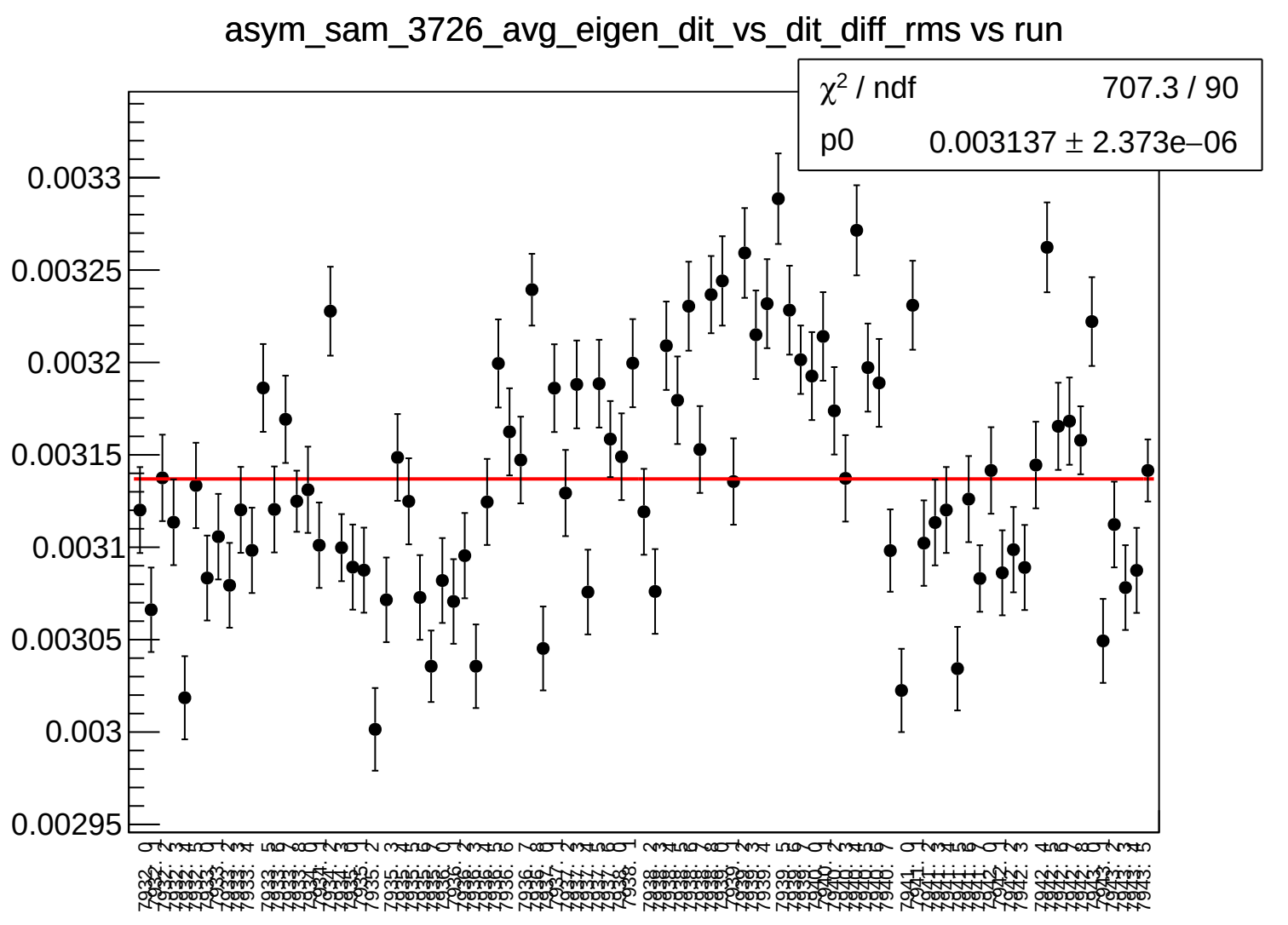

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 90
p0 0.004656 ± 0.0788
pull
Entries 91
Mean −802.2
Std Dev 0
pull1D
Entries 91
Mean 0.001409
Std Dev 1.067

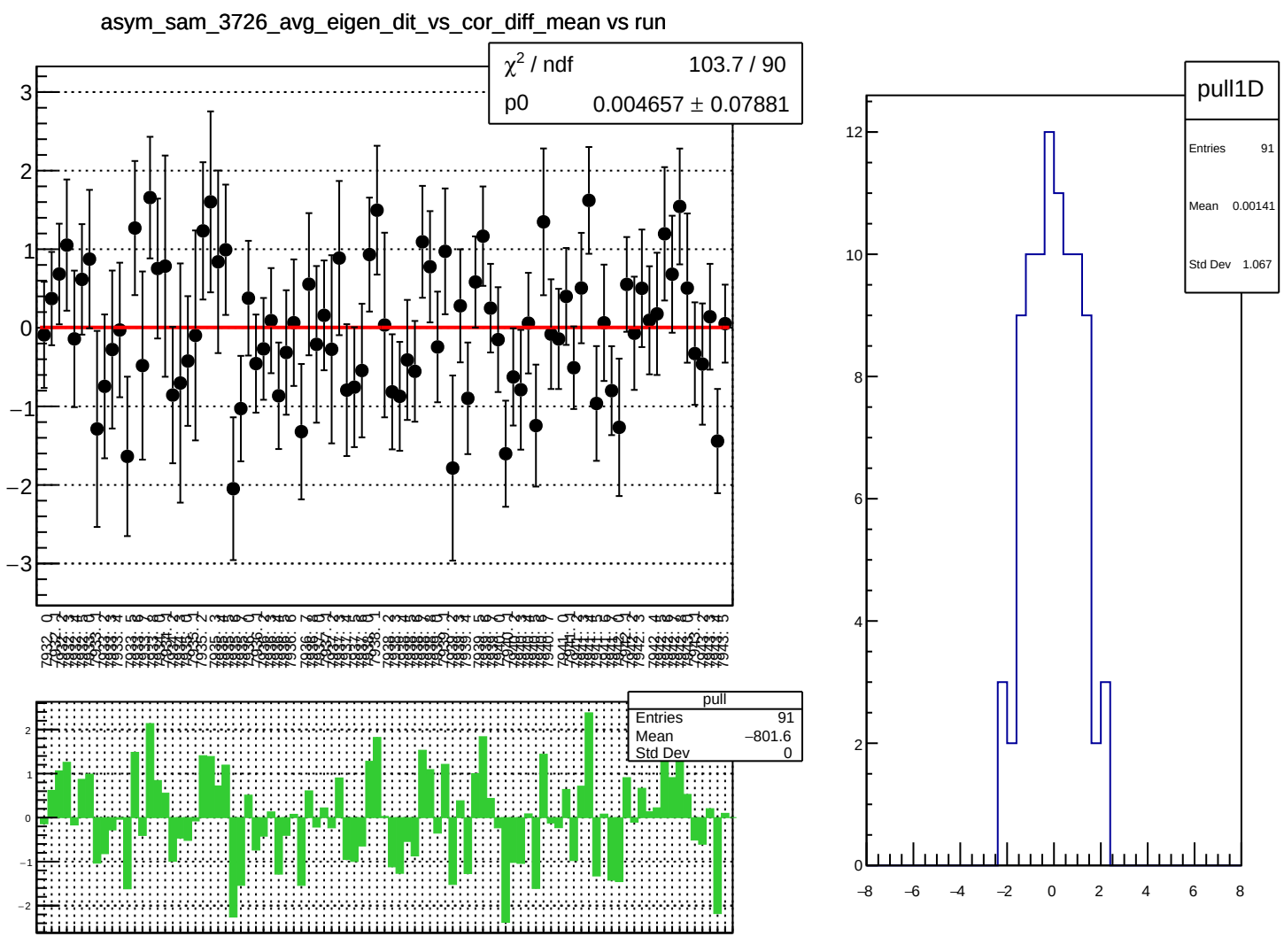

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 90
p0 72.14 ± 0.05572
180
160
140
120
100
80
60
40

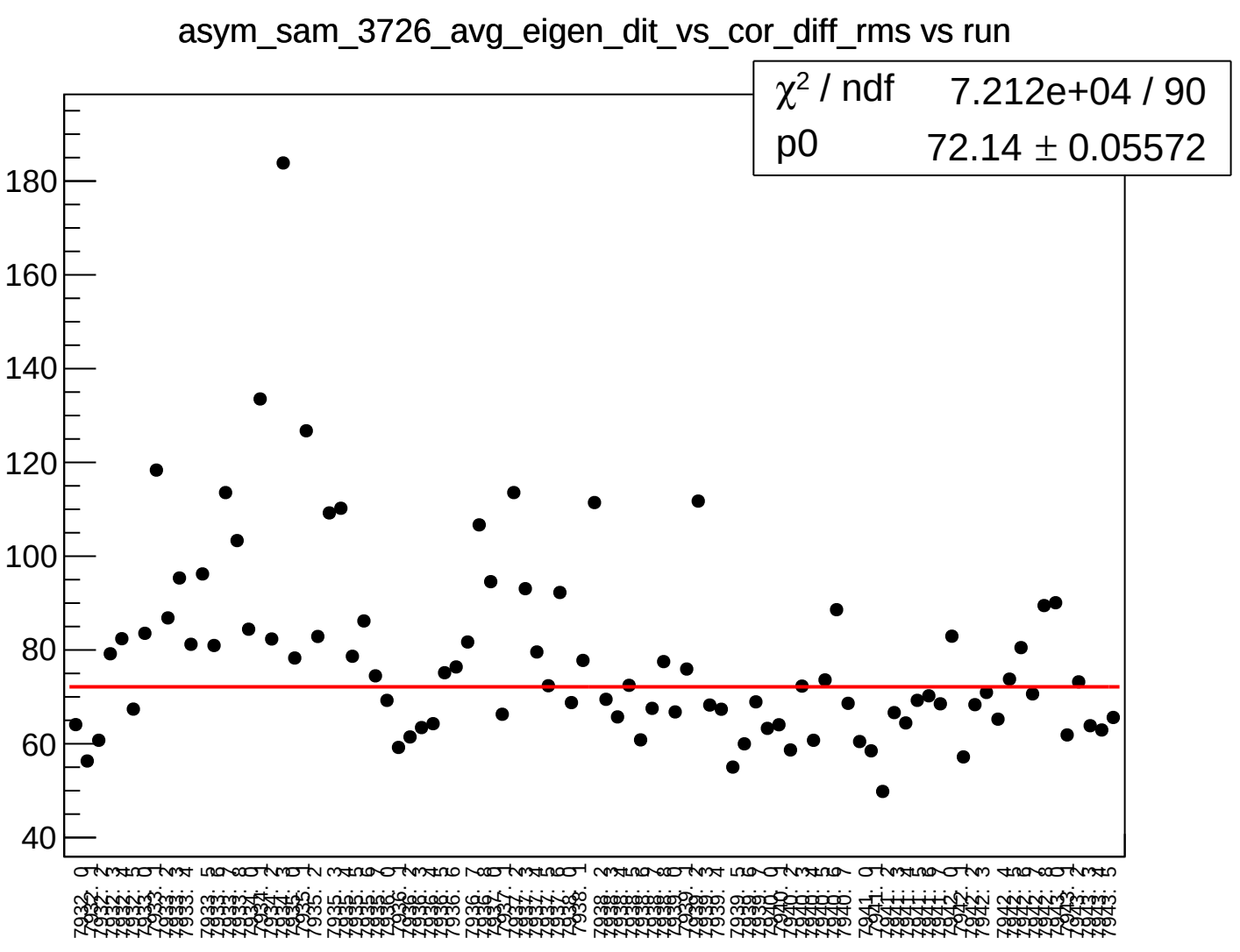

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 90
p0 0.004656 ± 0.0788
pull
Entries 91
Mean −802.2
Std Dev 0
pull1D
Entries 91
Mean 0.001409
Std Dev 1.067

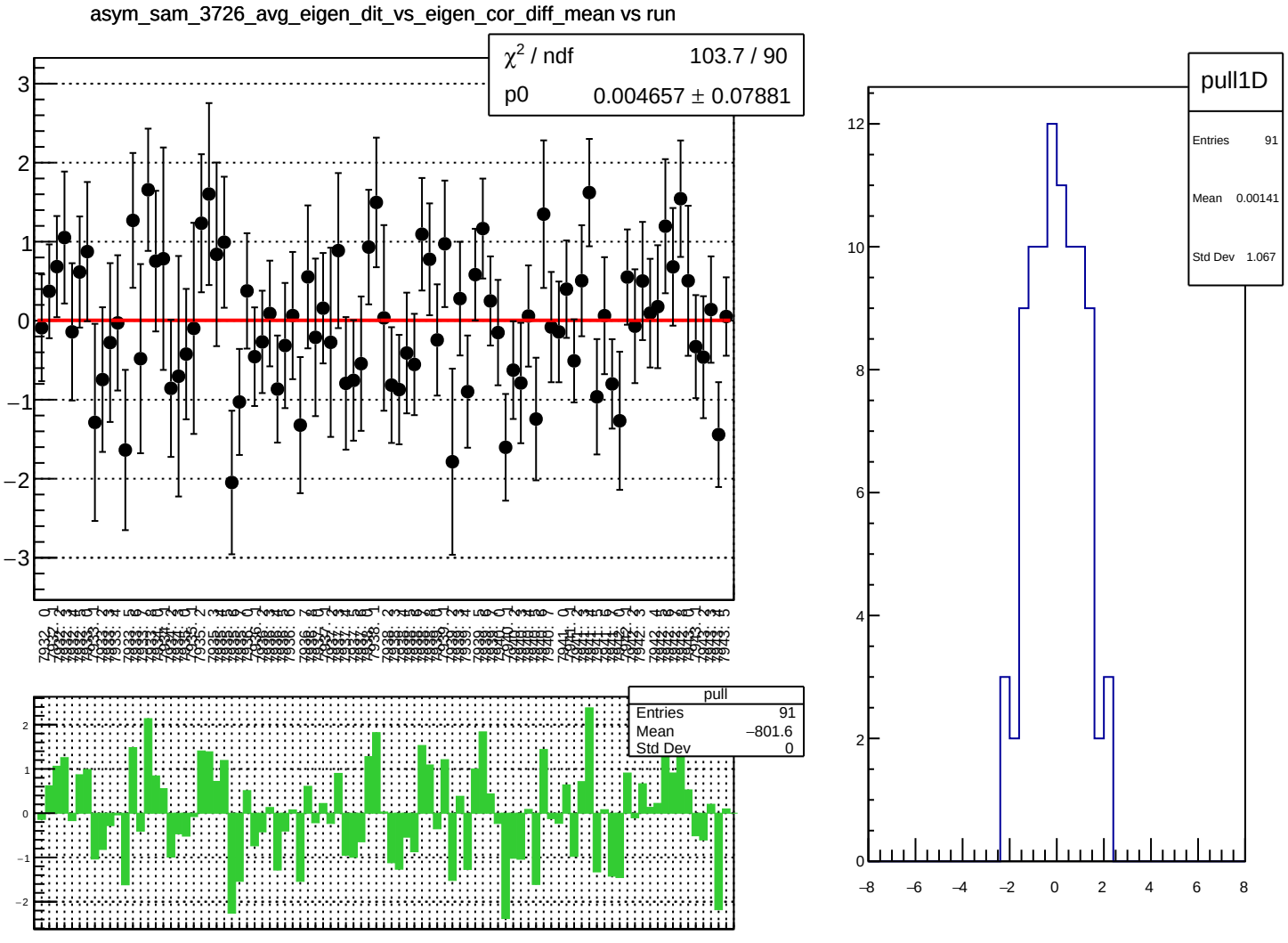

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 90
p0 72.14 ± 0.05572
180
160
140
120
100
80
60
40

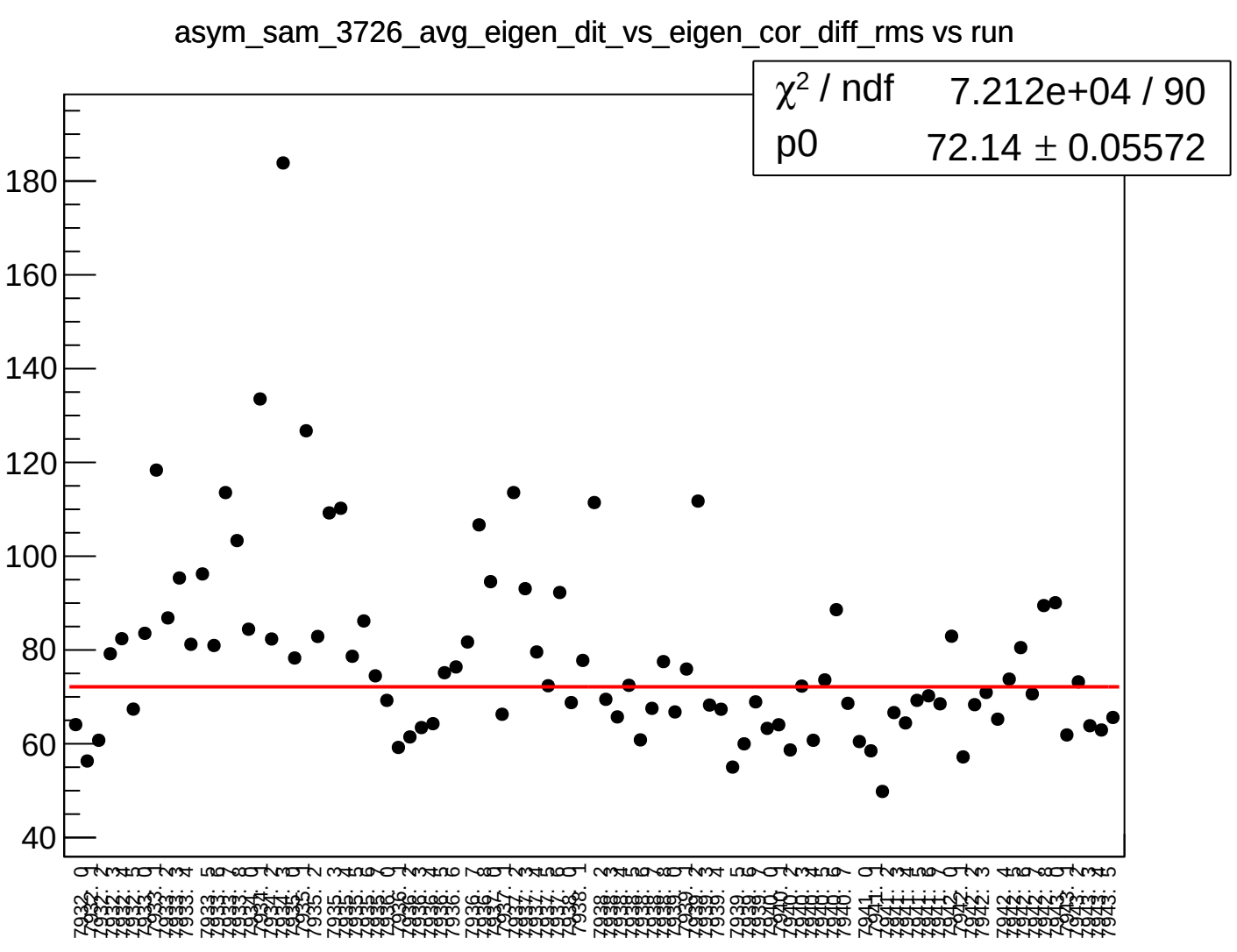

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.36 / 90
p0 2.439e−06 ± 3.356e−06
pull
Entries 91
Mean 206
Std Dev 0
pull1D
Entries 91
Mean −0.004458
Std Dev 1.04

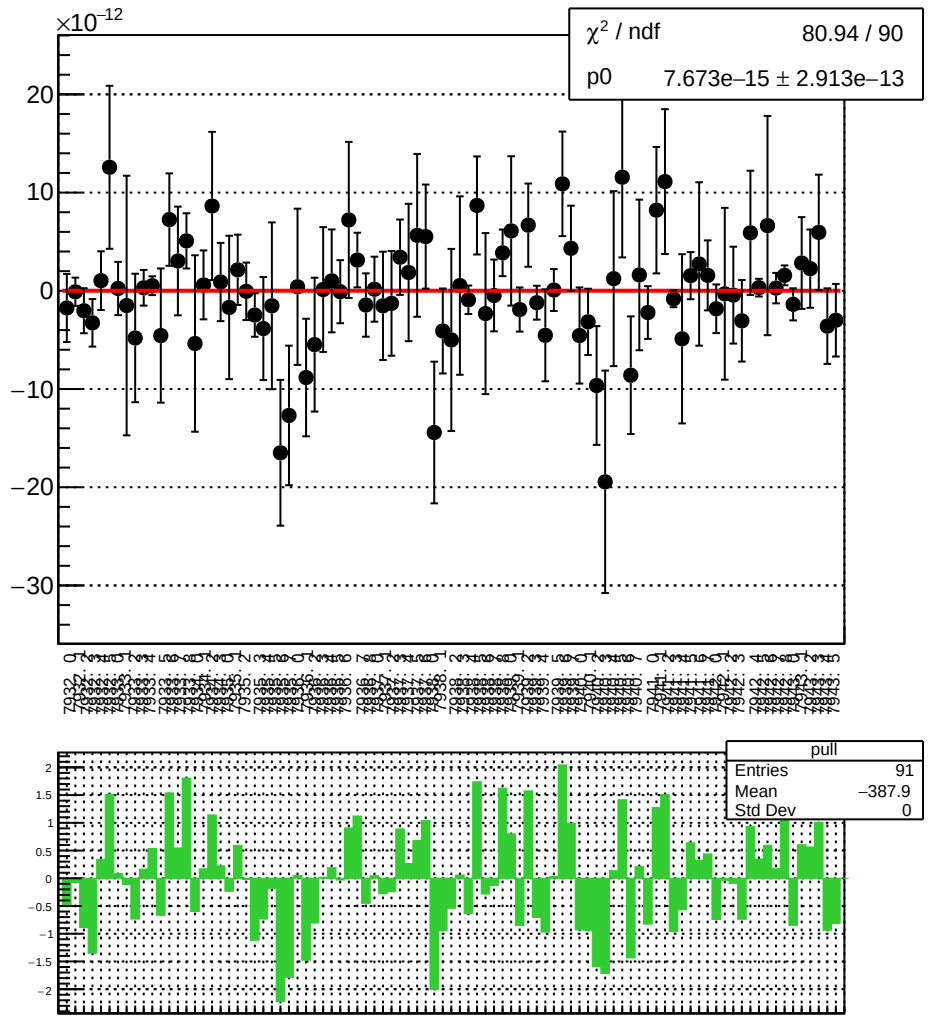

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 707.3 / 90
p0 0.003137 ± 2.373e−06
0.0033
0.00325
0.0032
0.00315
0.0031
0.00305
0.003
0.00295

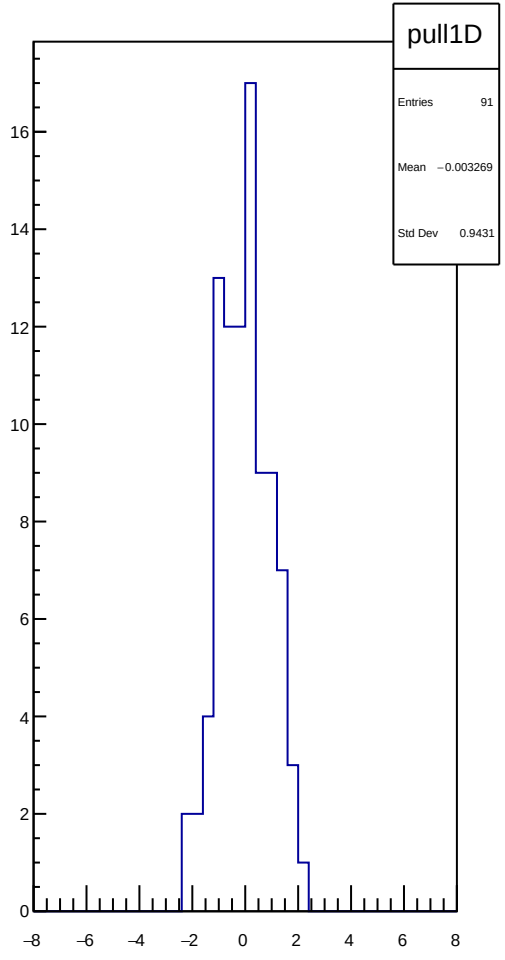

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 90
p0 0.004657 ± 0.07881
pull
Entries 91
Mean −801.6
Std Dev 0
pull1D
Entries 91
Mean 0.00141
Std Dev 1.067

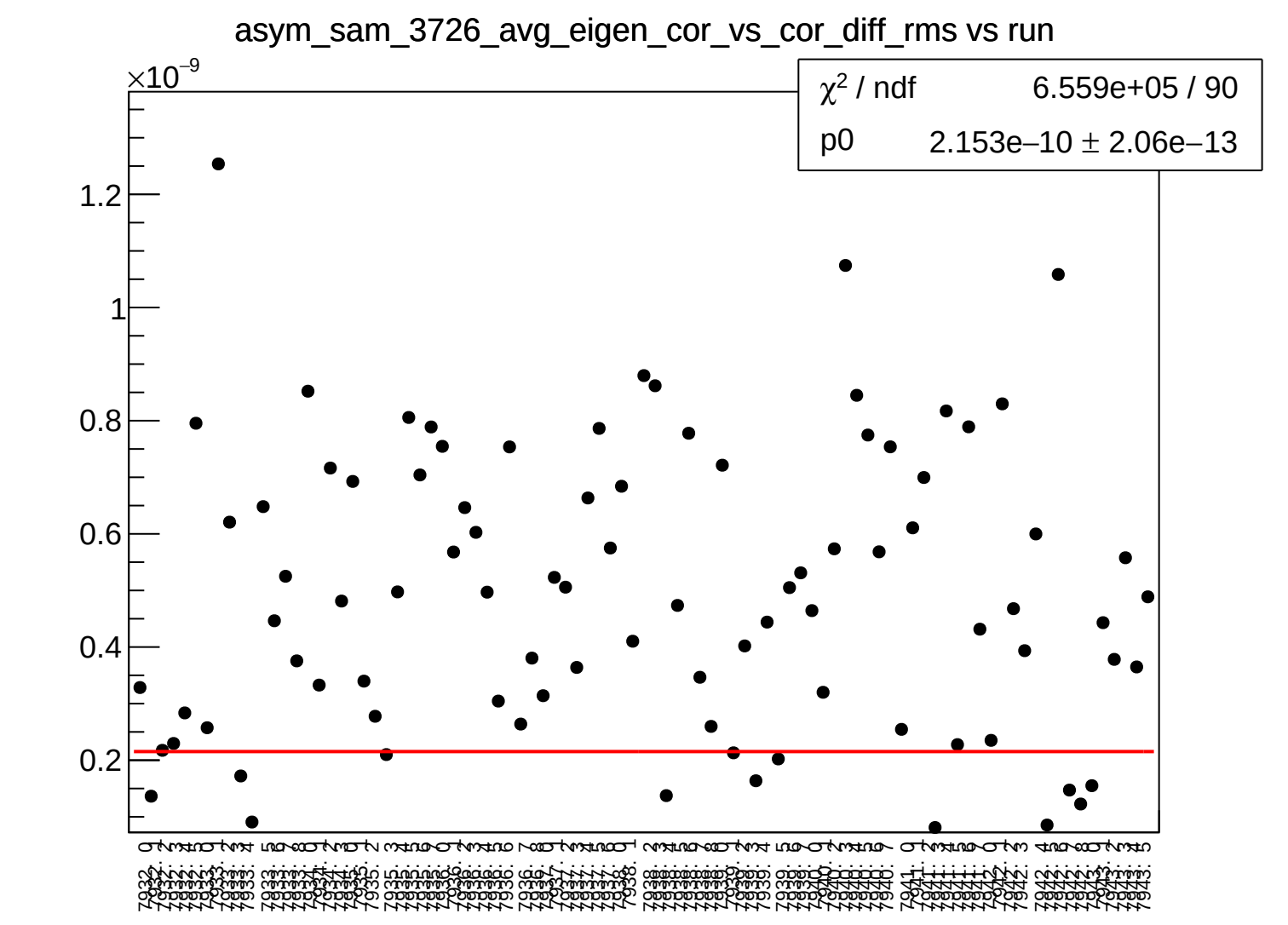

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 90
p0 72.14 ± 0.05572
180
160
140
120
100
80
60
40

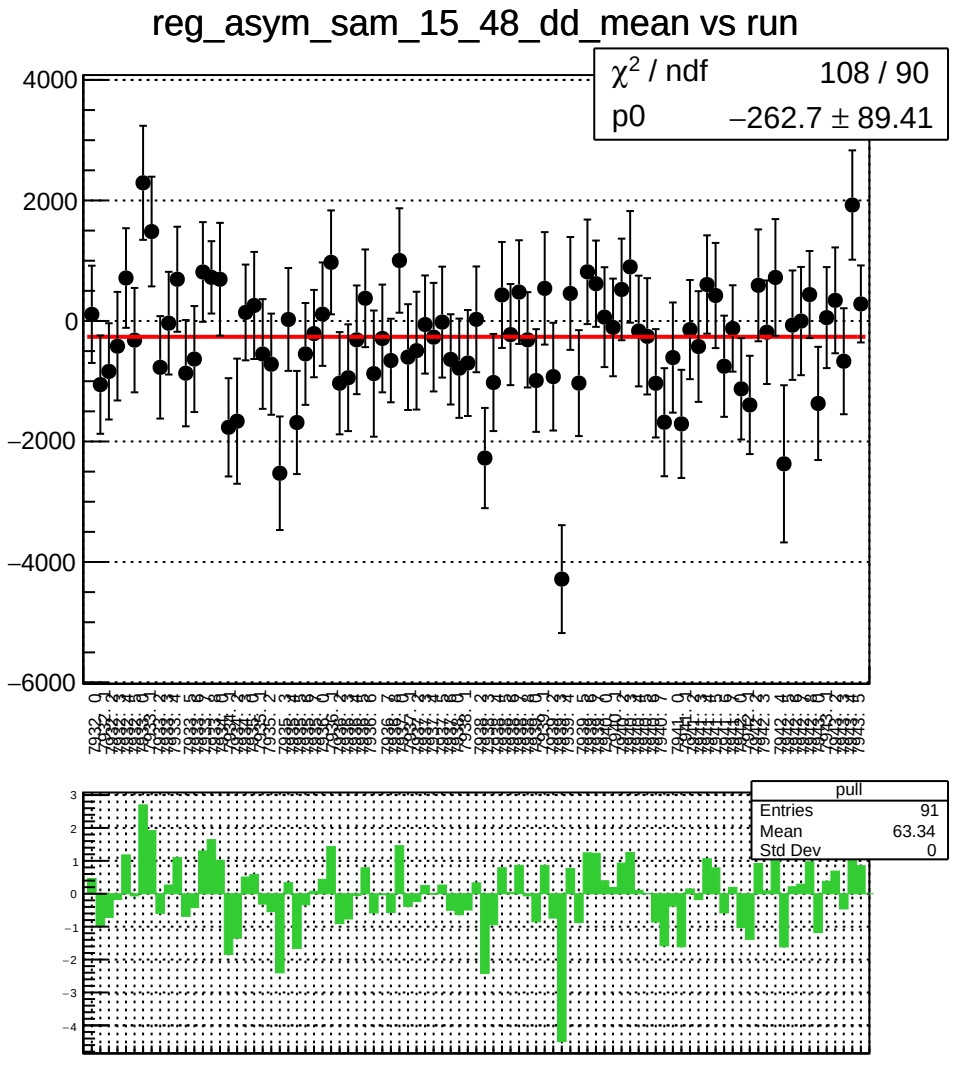

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 90
p0 0.004657 ± 0.07881
pull
Entries 91
Mean −801.6
Std Dev 0
pull1D
Entries 91
Mean 0.00141
Std Dev 1.067

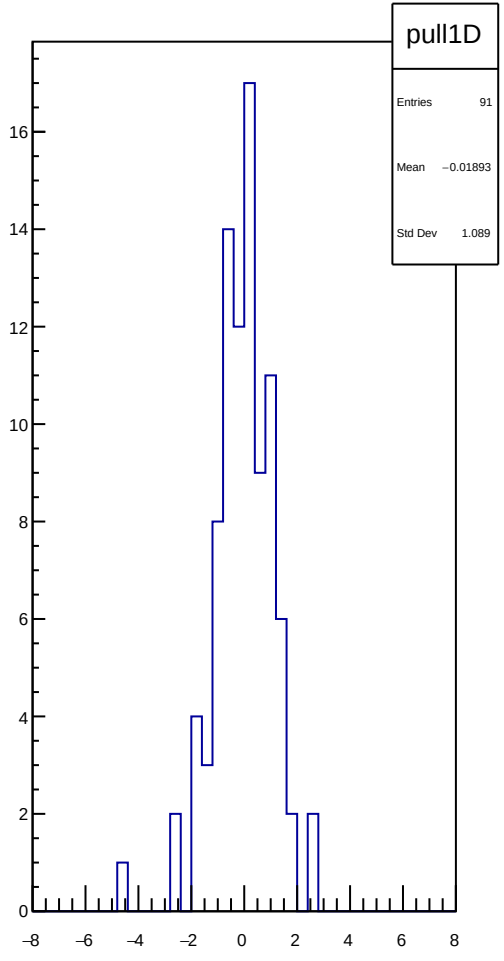

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.212e+04 / 90
p0 72.14 ± 0.05572
180
160
140
120
100
80
60
40

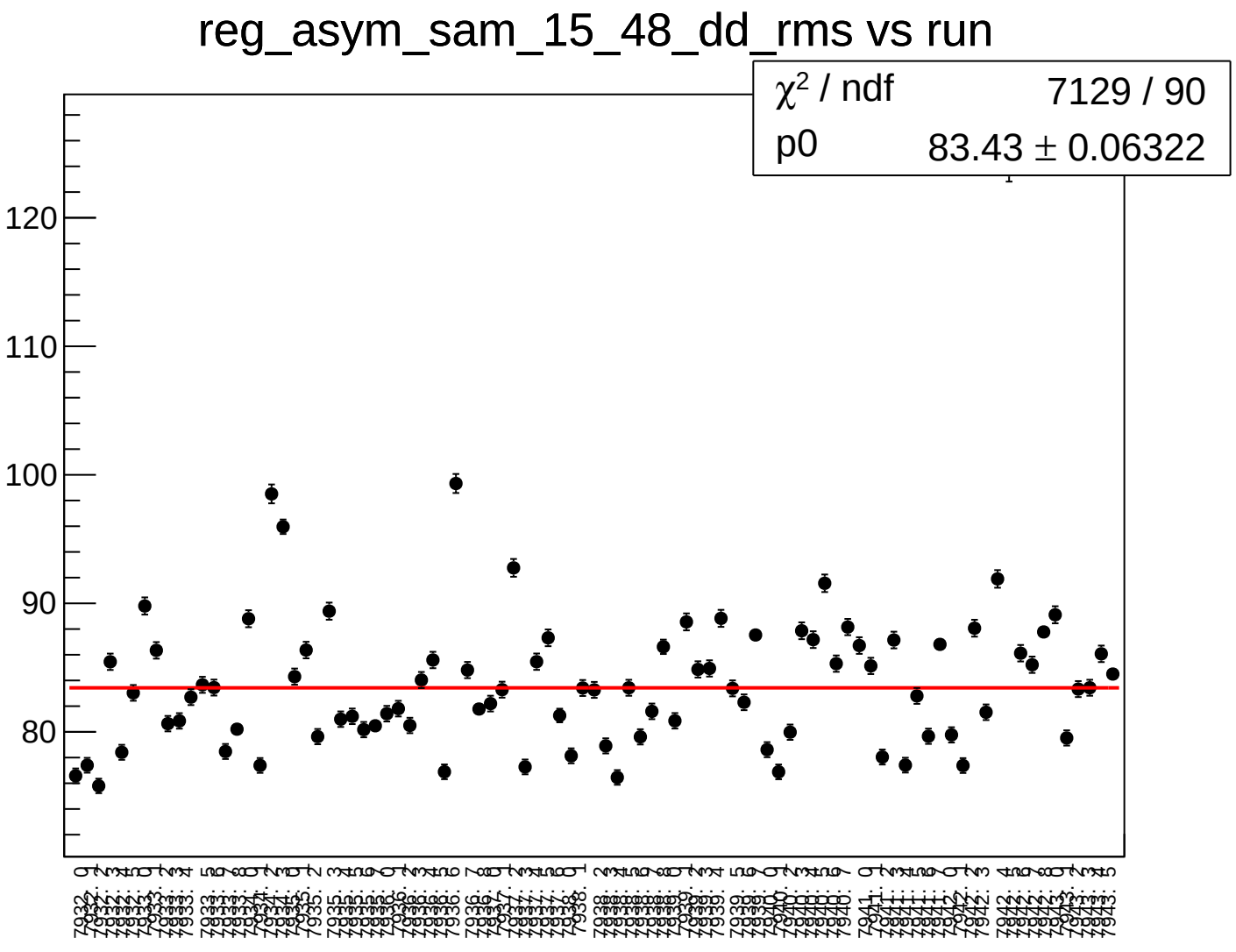

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.94 / 90
p0 7.673e−15 ± 2.913e−13
20
10
0
−10
−20
−30
pull
Entries 91
Mean −387.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

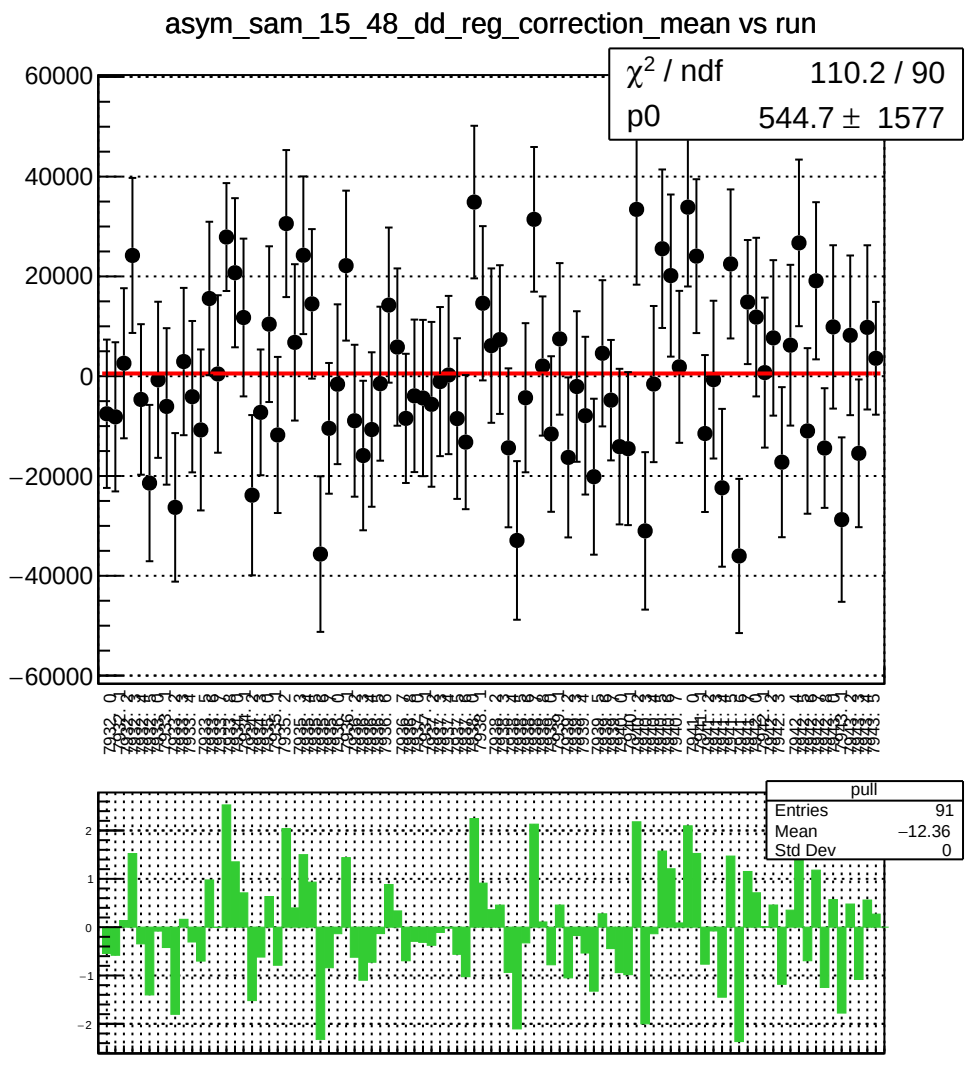

pull1D
Entries 91
Mean −0.003269
Std Dev 0.9431
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

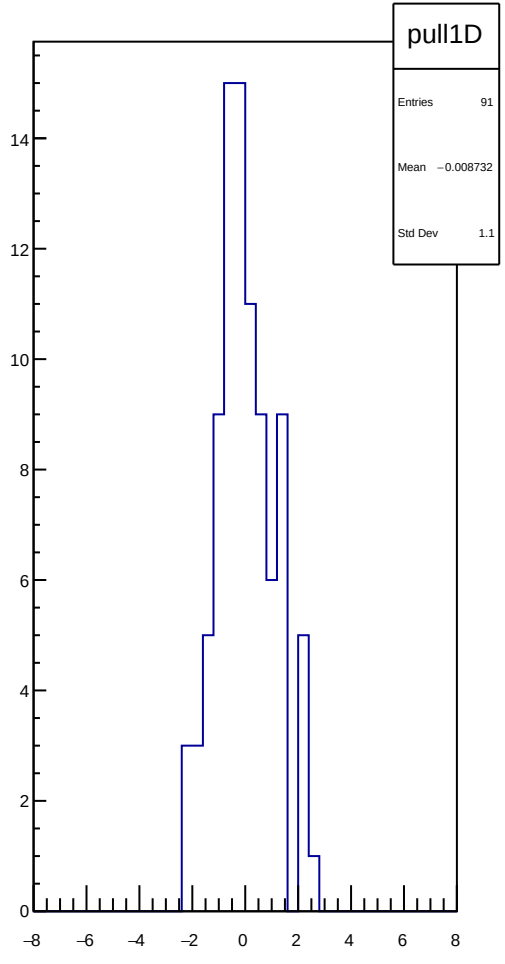

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.559e+05 / 90
p0 2.153e−10 ± 2.06e−13
1.2
1
0.8
0.6
0.4
0.2

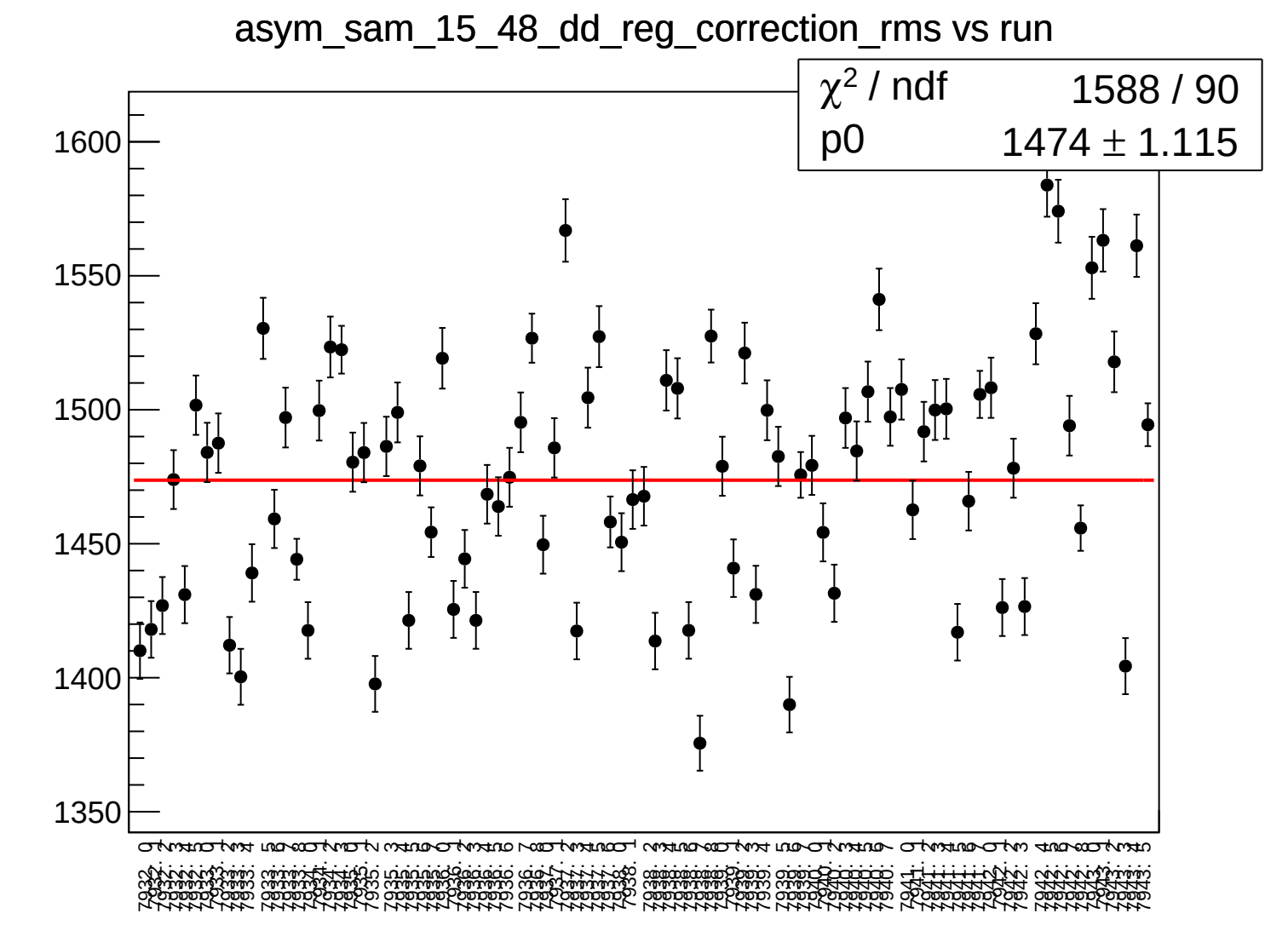

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 108 / 90
p0 −262.7 ± 89.41
pull
Entries 91
Mean 63.34
Std Dev 0

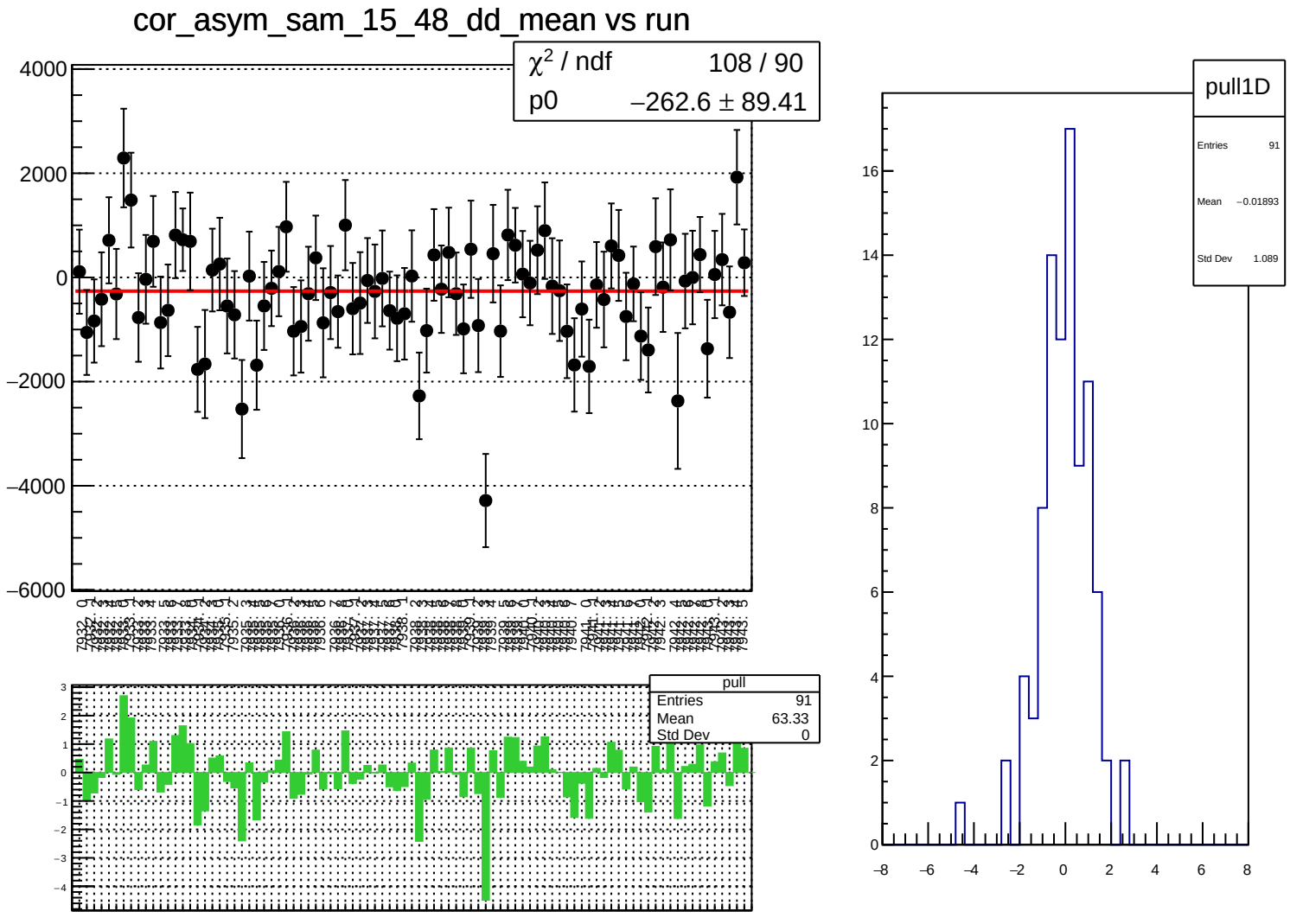

pull1D
Entries 91
Mean −0.01893
Std Dev 1.089

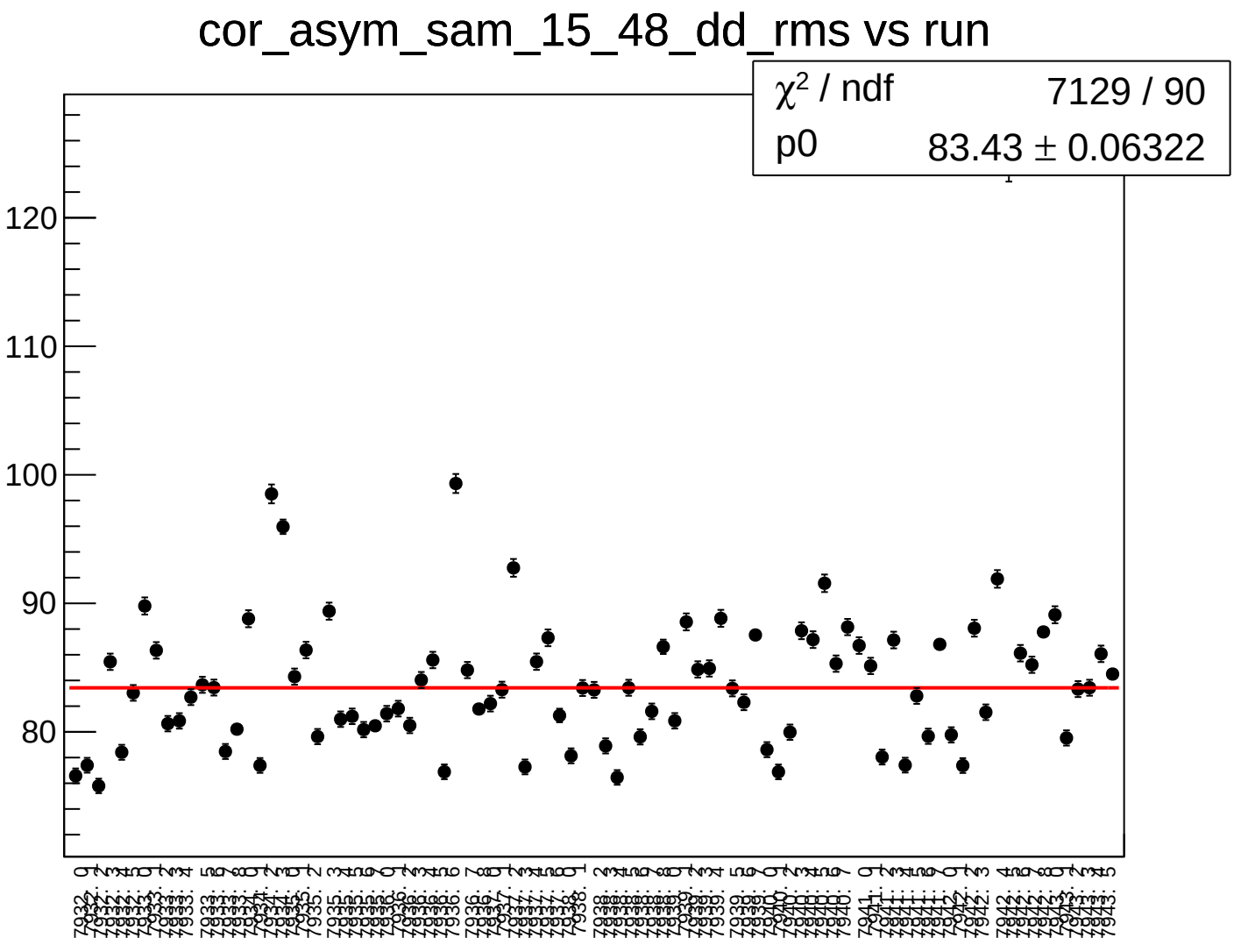

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7129 / 90
p0 83.43 ± 0.06322
120
110
100
90
80

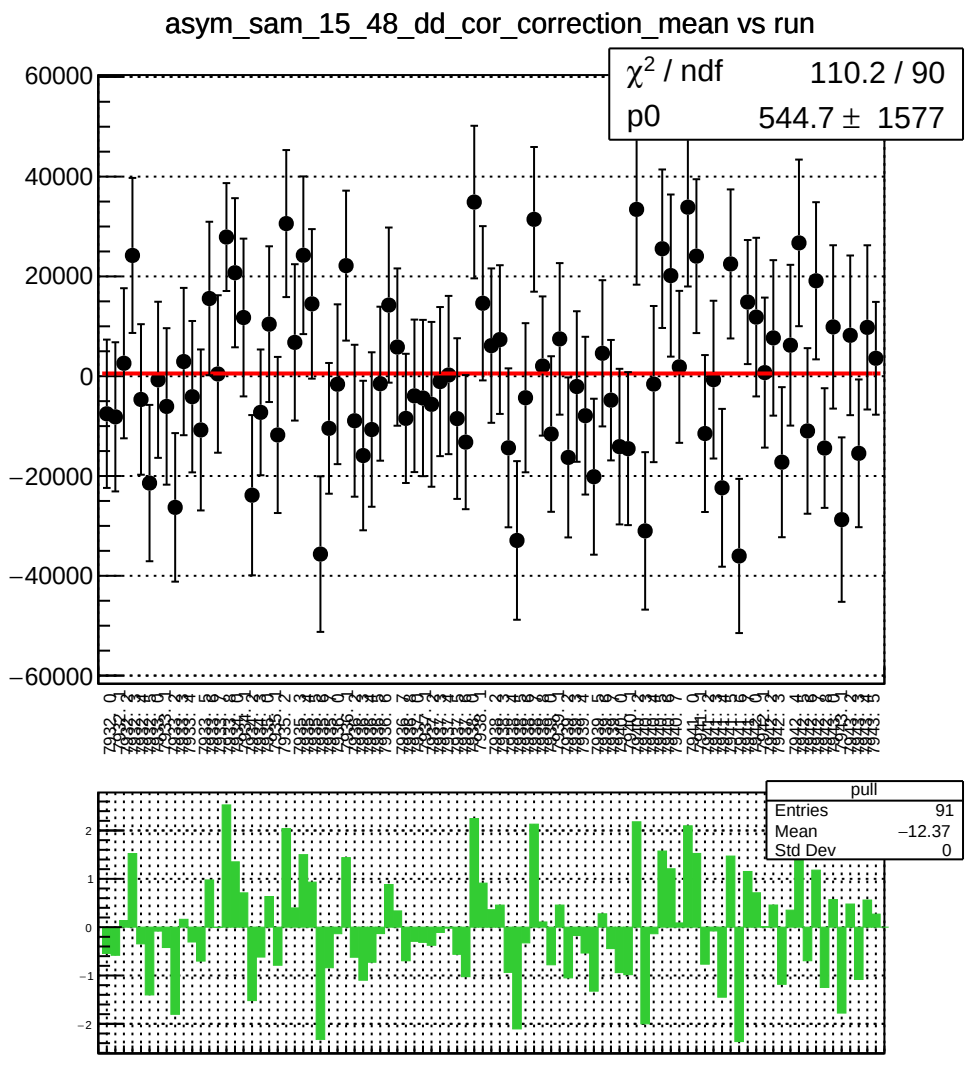

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 110.2 / 90
p0 544.7 ± 1577
pull
Entries 91
Mean −12.36
Std Dev 0

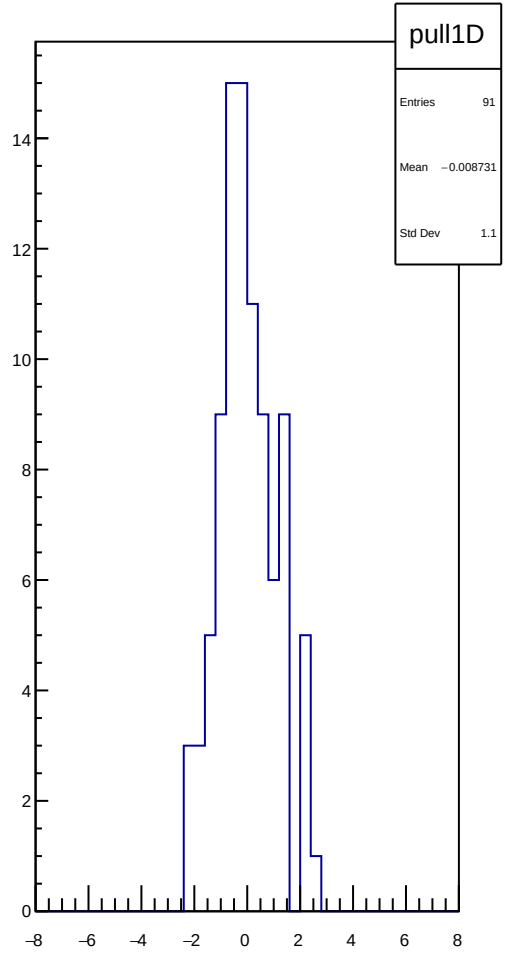

pull1D
Entries 91
Mean −0.008732
Std Dev 1.1

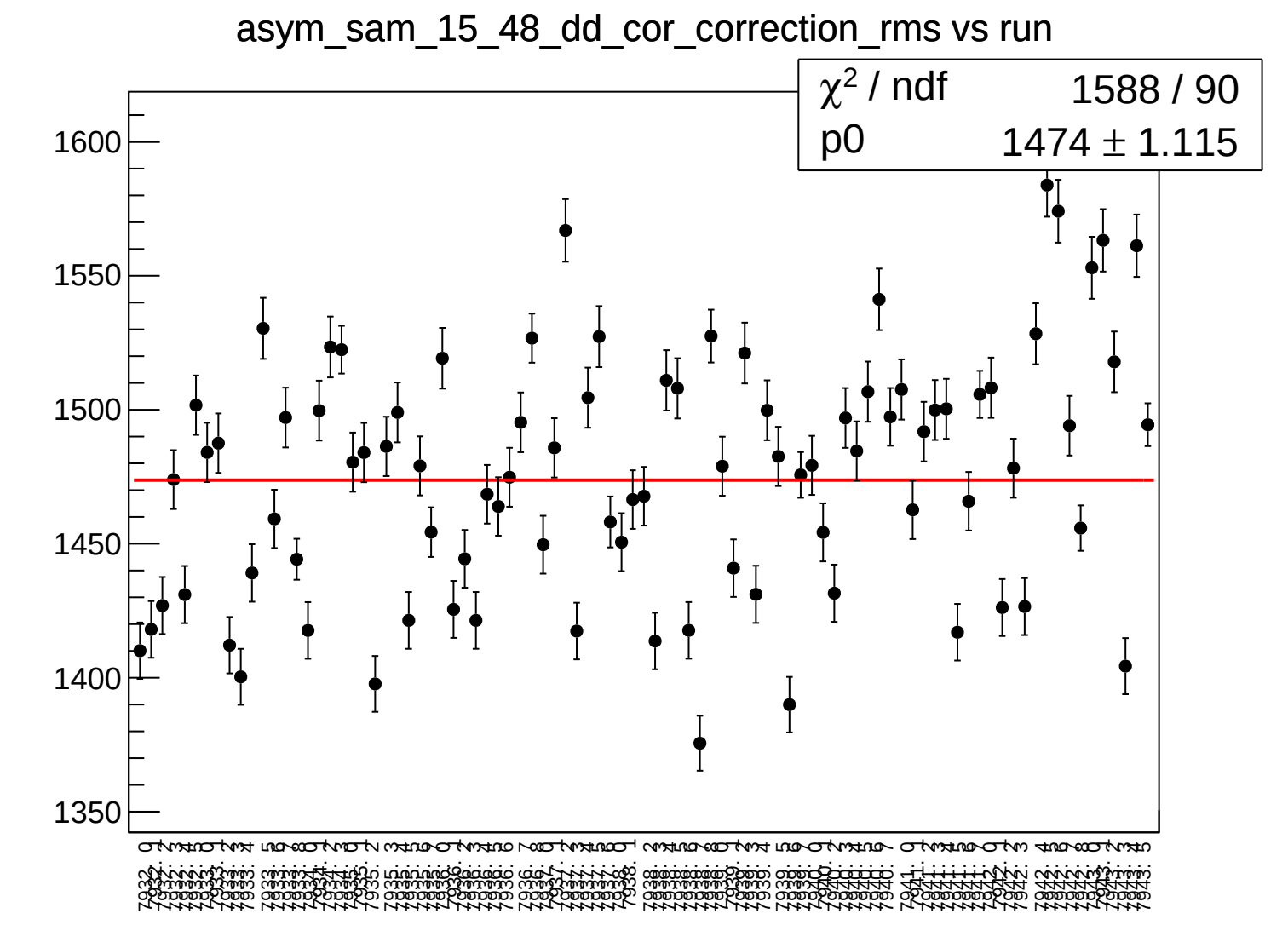

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1588 / 90
p0 1474 ± 1.115
1600
1550
1500
1450
1400
1350

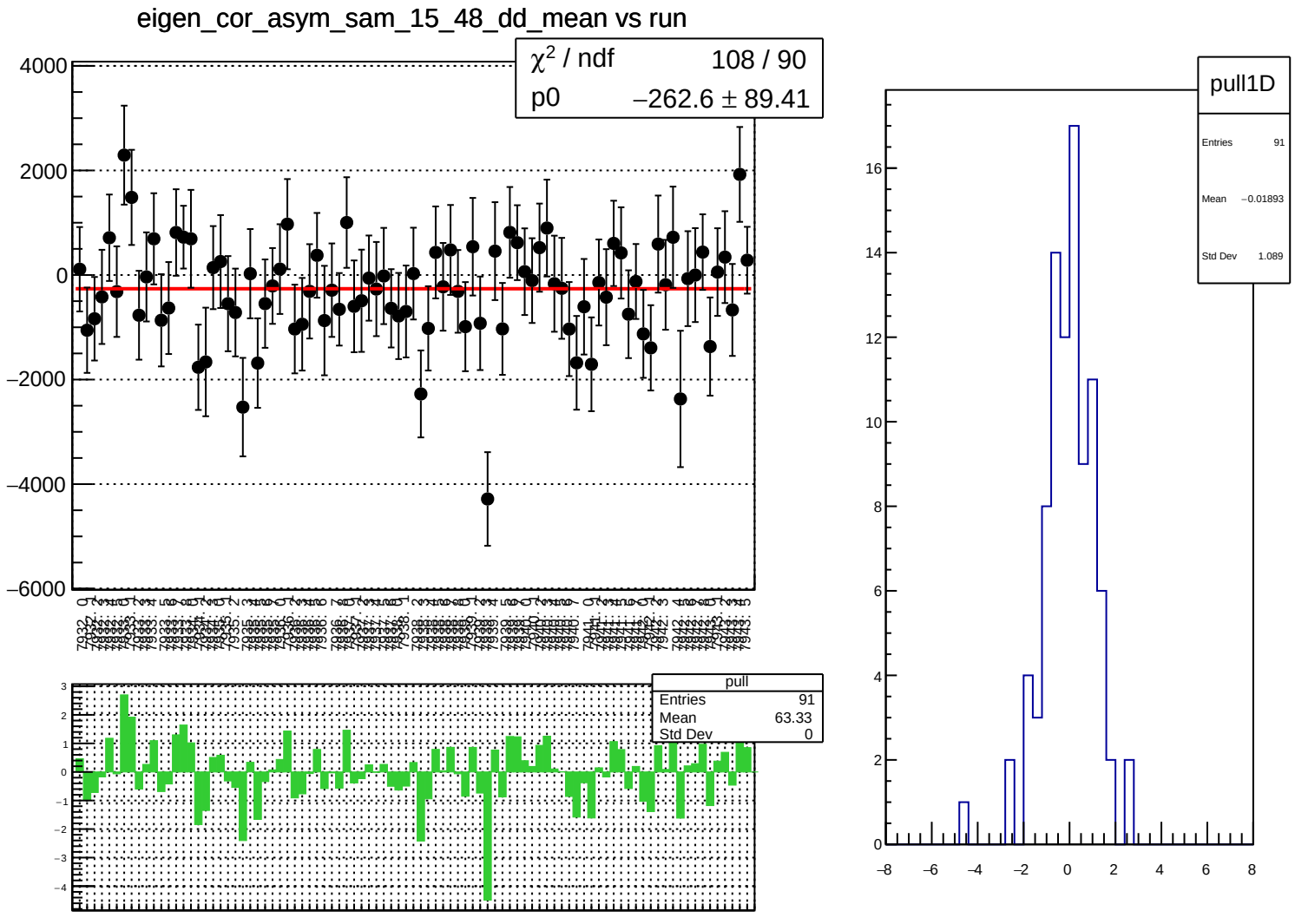

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 108 / 90
p0 −262.6 ± 89.41
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 63.33
Std Dev 0
pull1D
Entries 91
Mean −0.01893
Std Dev 1.089

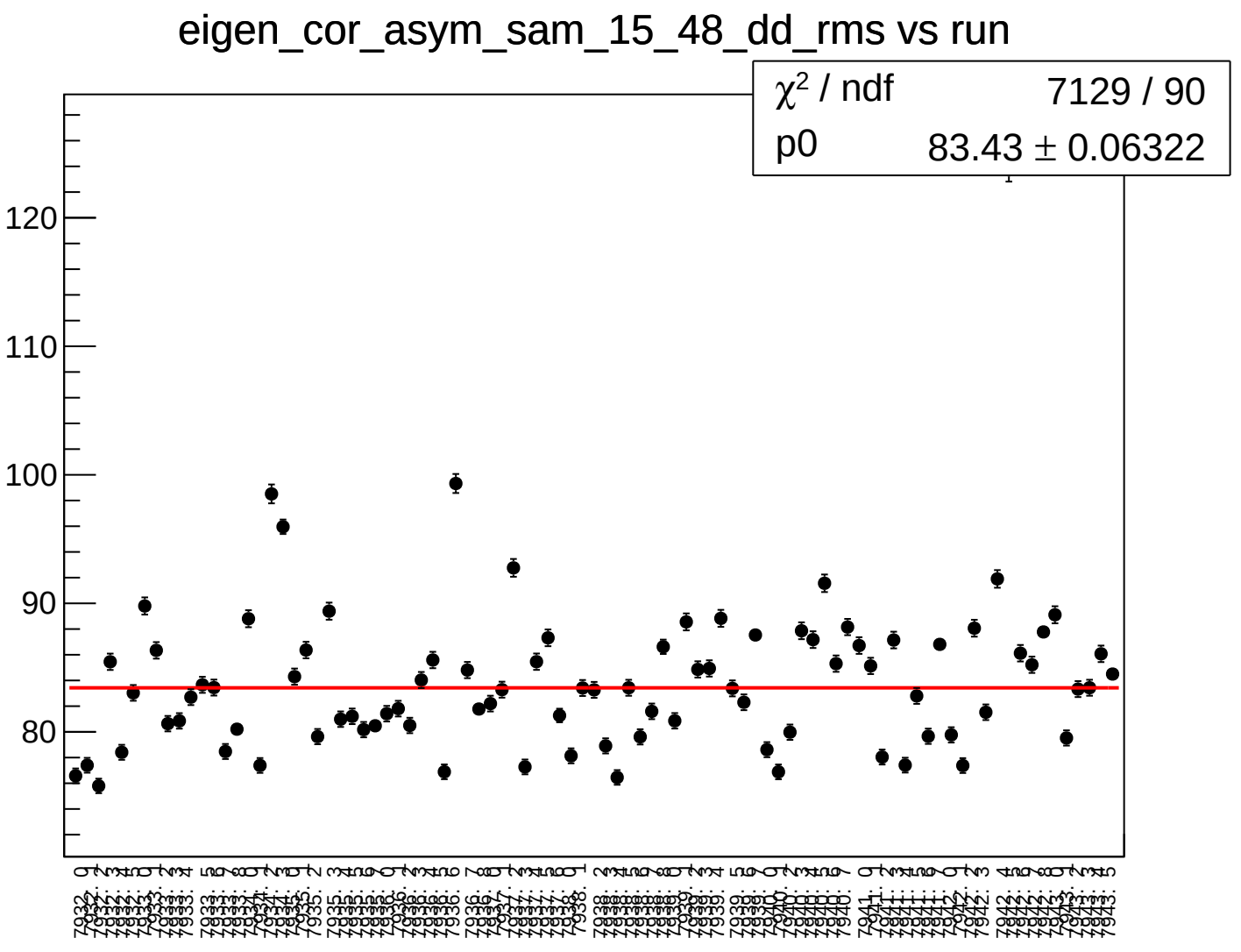

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7129 / 90
p0 83.43 ± 0.06322
120
110
100
90
80

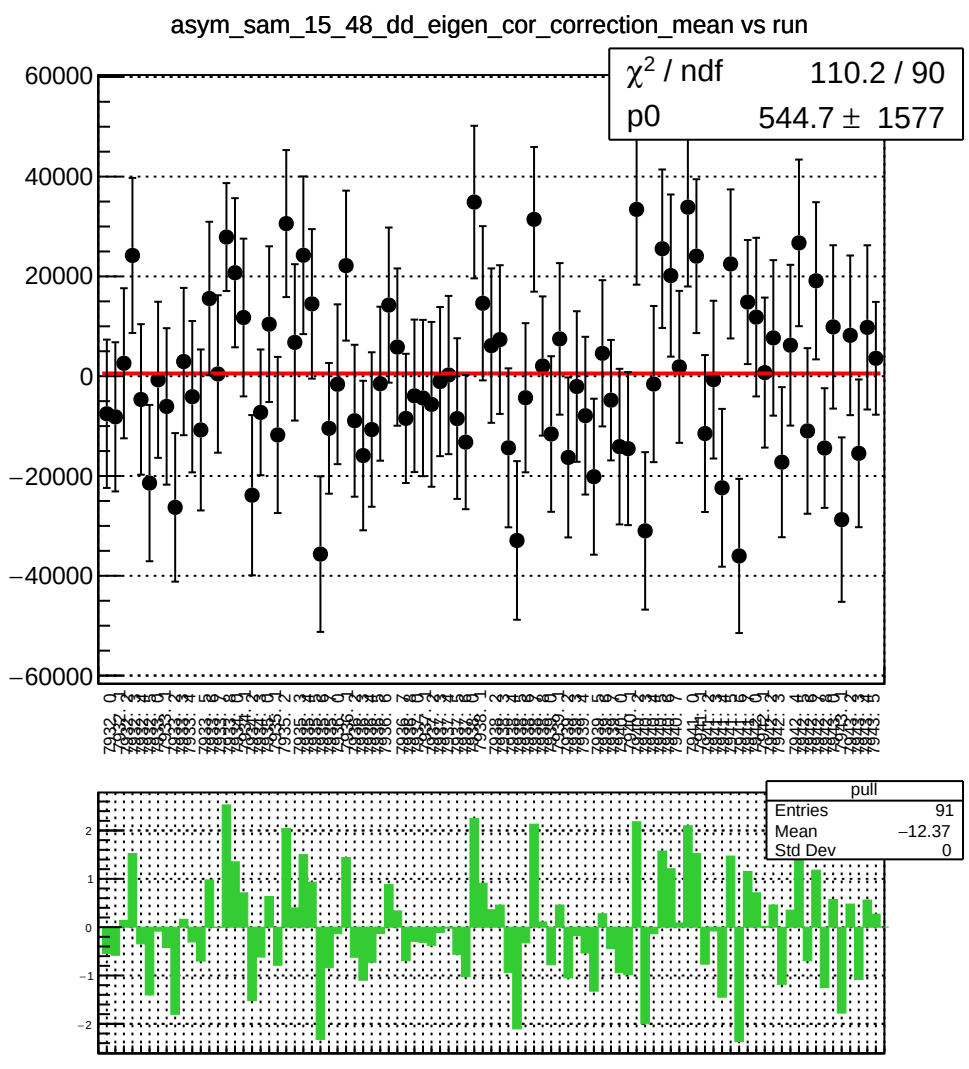

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 110.2 / 90
p0 544.7 ± 1577
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −12.37
Std Dev 0
2
1
0
−1
−2

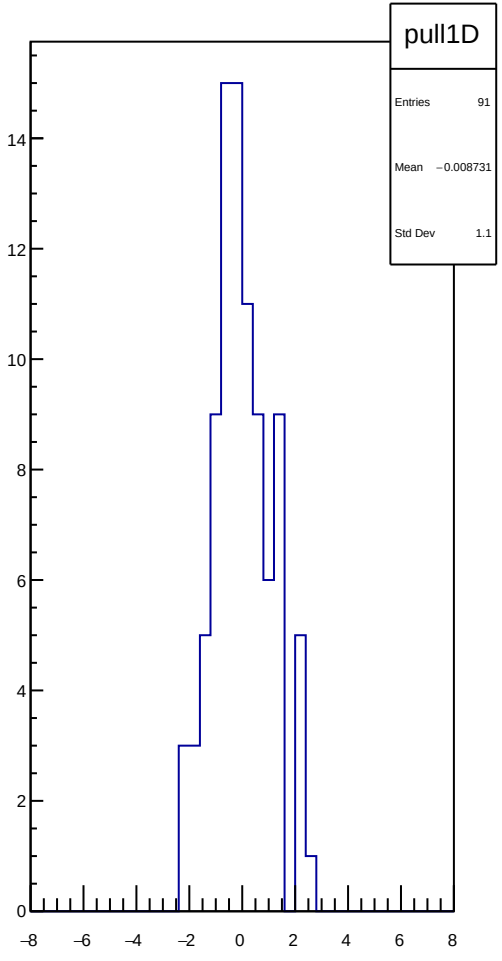

pull1D
Entries 91
Mean −0.008731
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

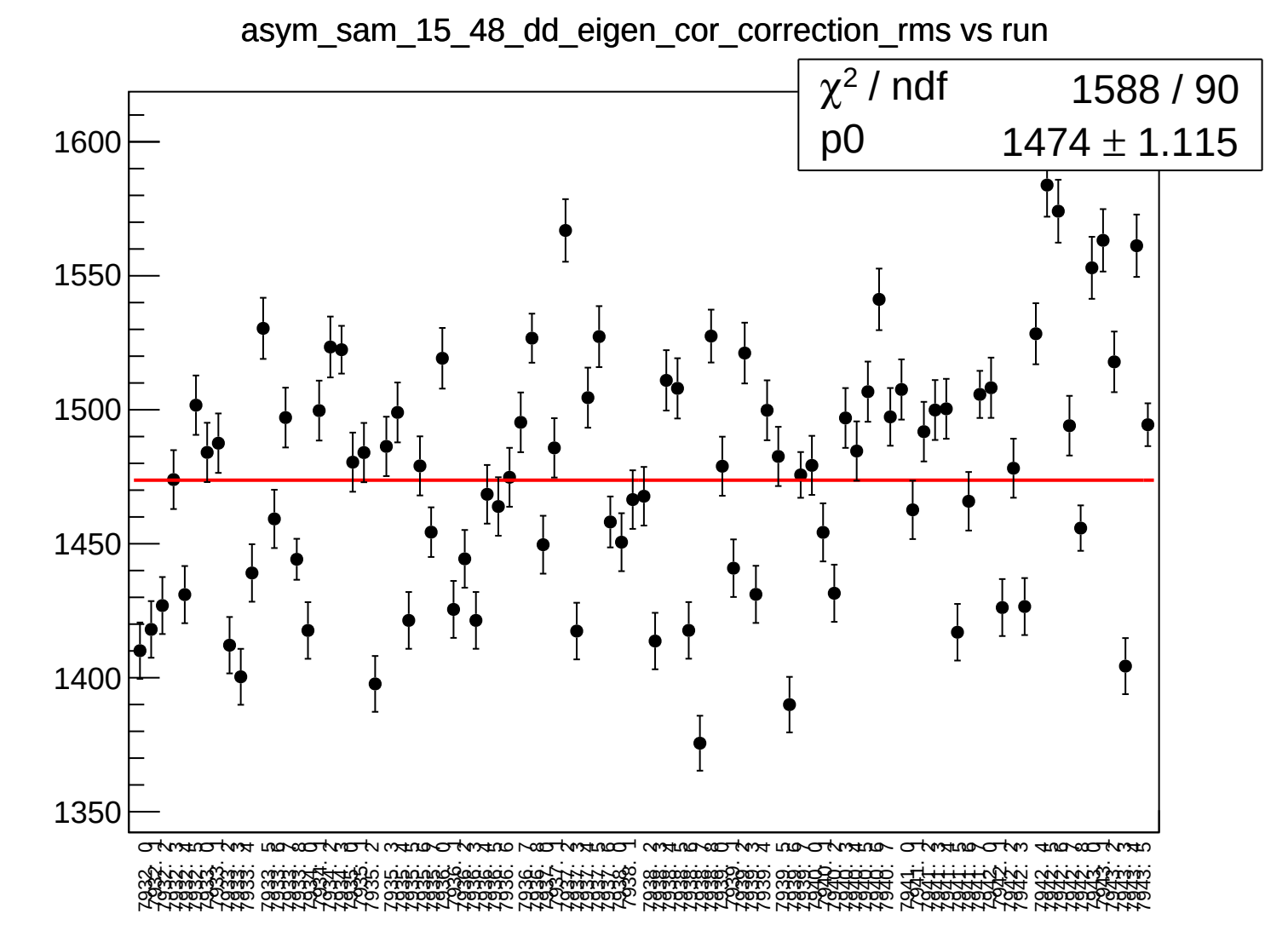

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1588 / 90
p0 1474 ± 1.115
1600
1550
1500
1450
1400
1350

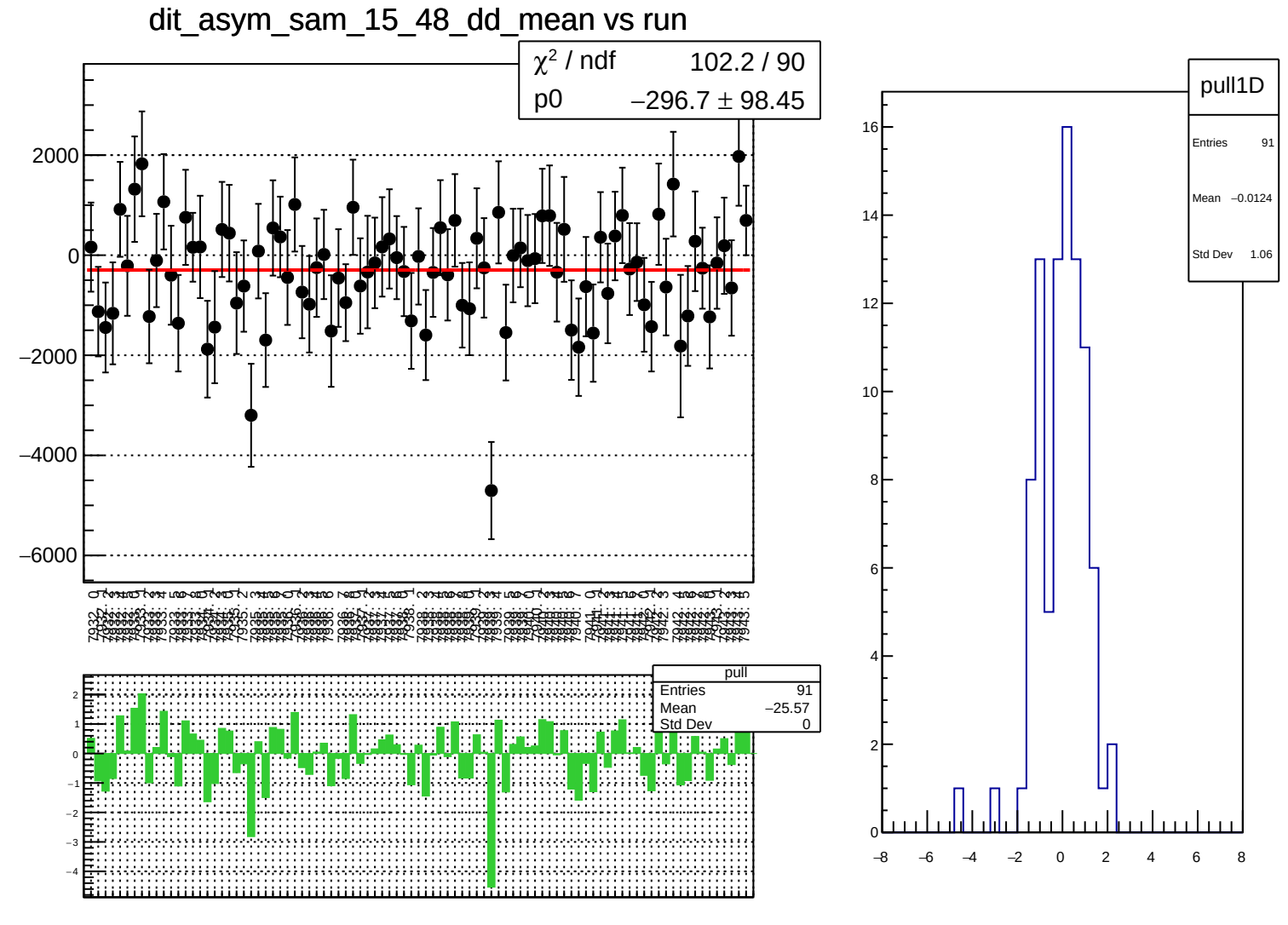

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 108 / 90
p0 −262.6 ± 89.41
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 63.33
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean −0.01893
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

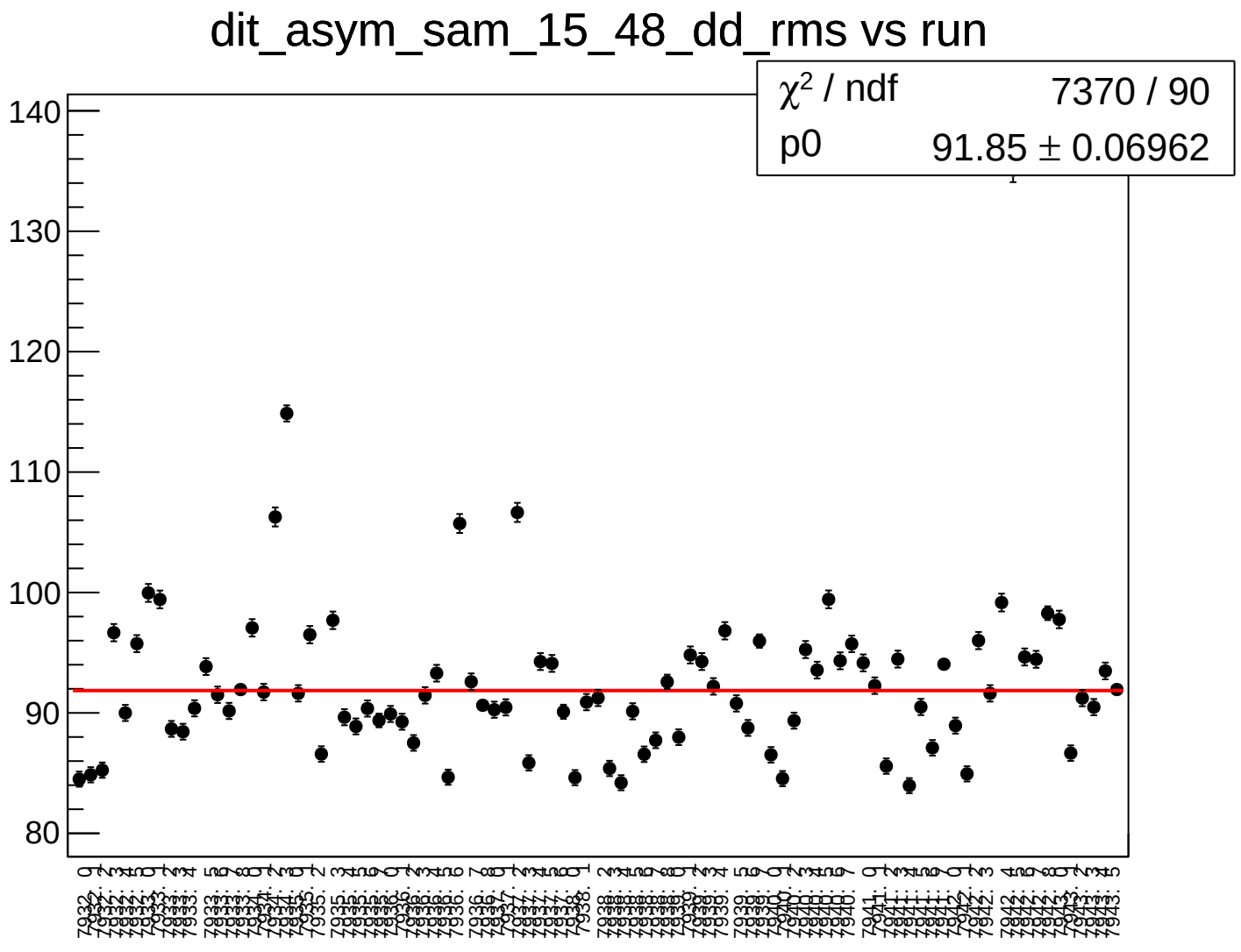

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7129 / 90
p0 83.43 ± 0.06322
120
110
100
90
80

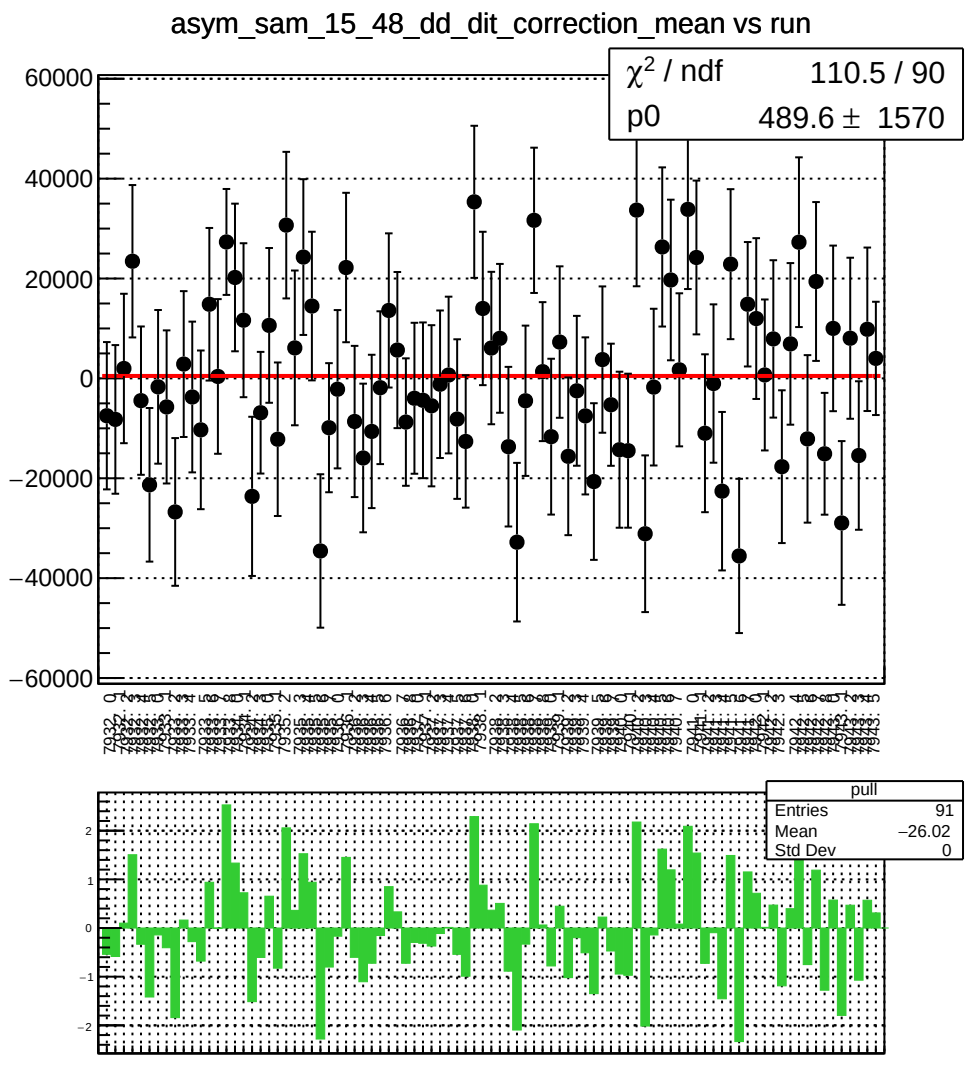

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 110.2 / 90
p0 544.7 ± 1577
pull
Entries 91
Mean −12.37
Std Dev 0

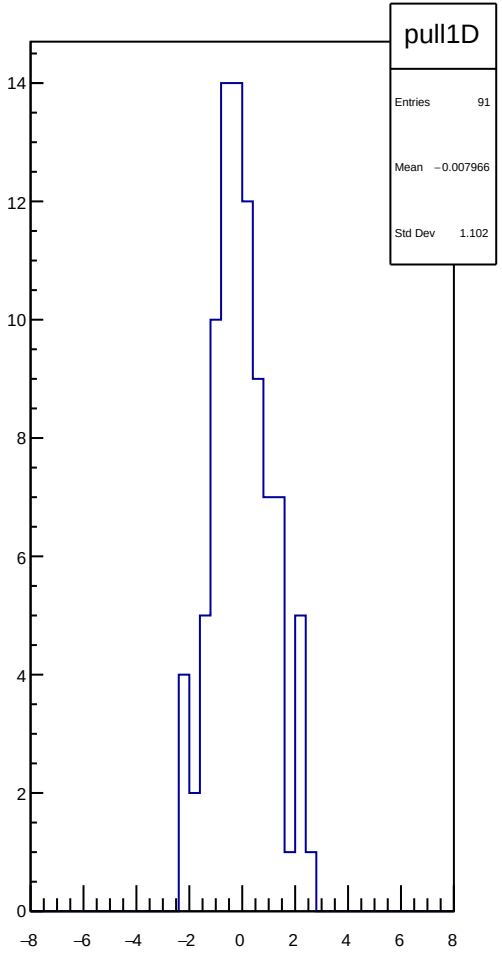

pull1D
Entries 91
Mean −0.008731
Std Dev 1.1

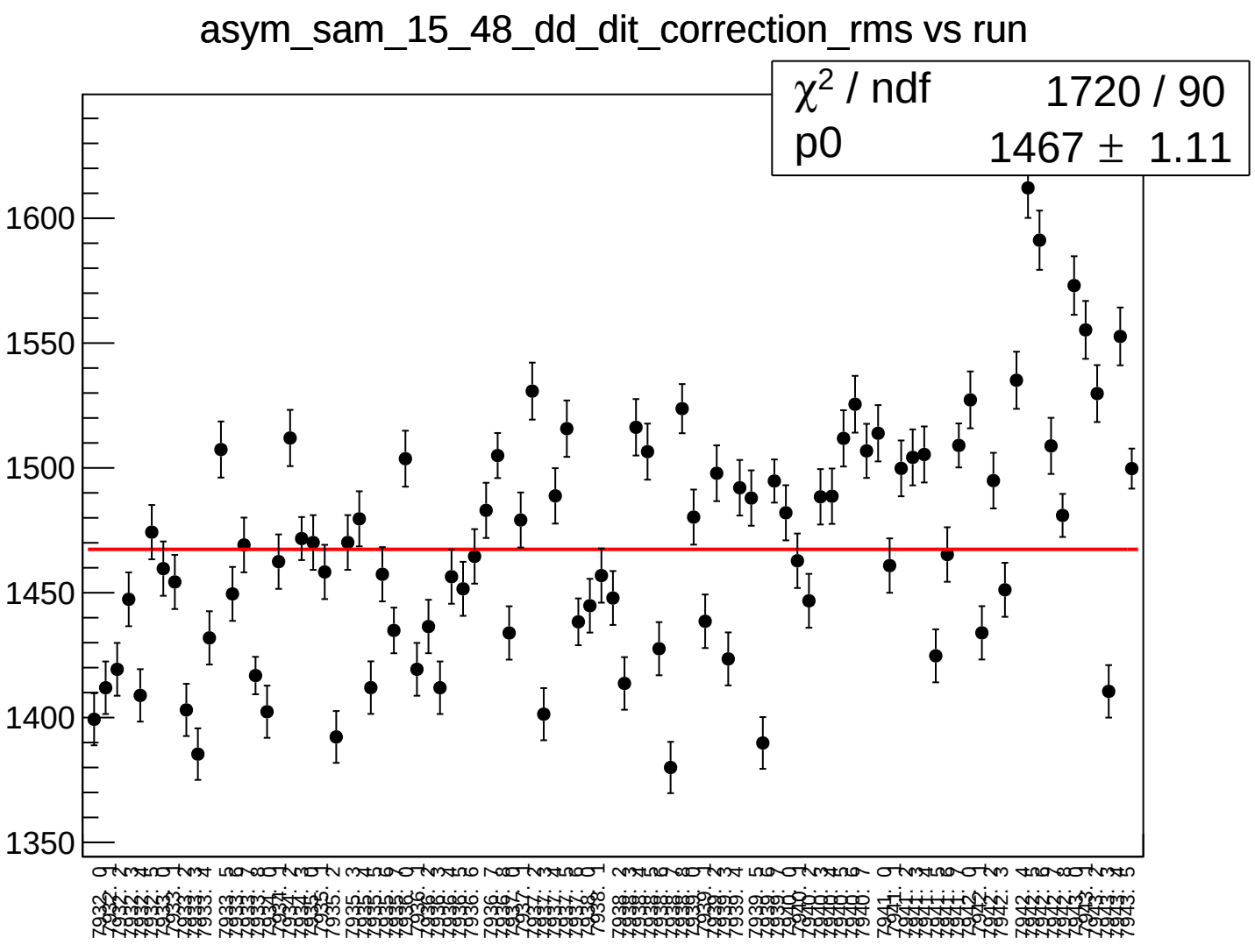

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1588 / 90
p0 1474 ± 1.115
1600
1550
1500
1450
1400
1350

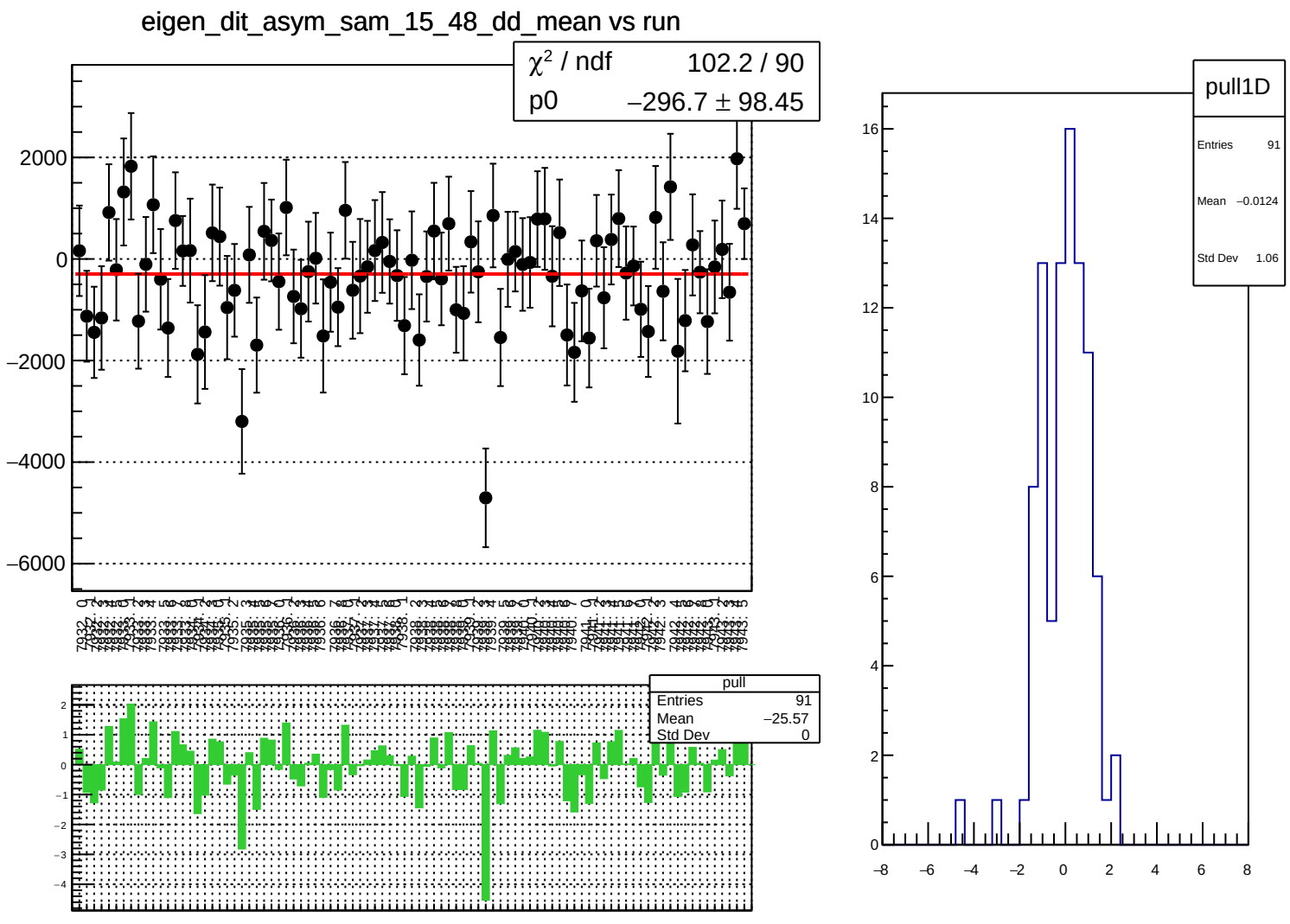

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 102.2 / 90
p0 −296.7 ± 98.45
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −25.57
Std Dev 0
pull1D
Entries 91
Mean −0.0124
Std Dev 1.06

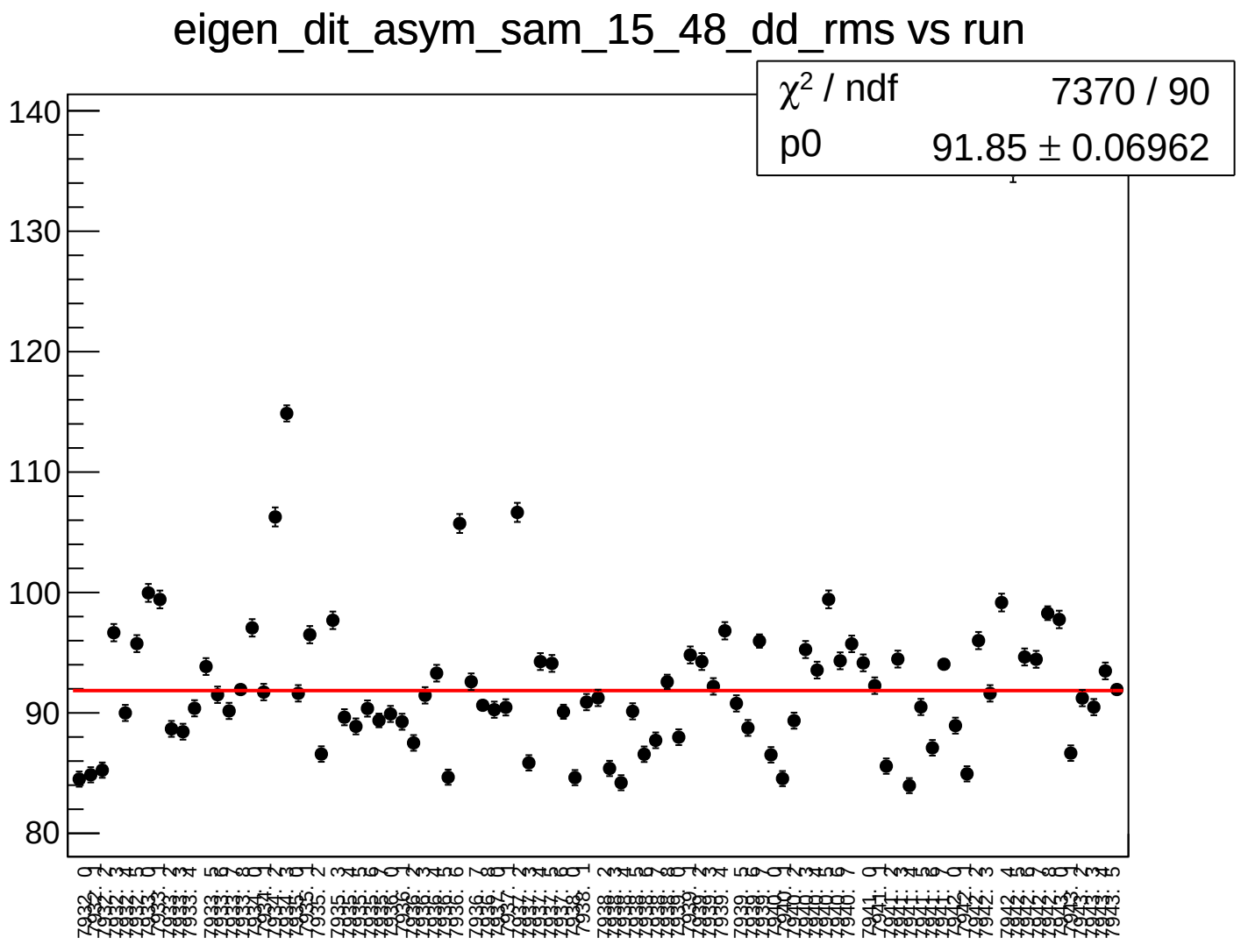

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 7370 / 90
p0 91.85 ± 0.06962
140
130
120
110
100
90
80

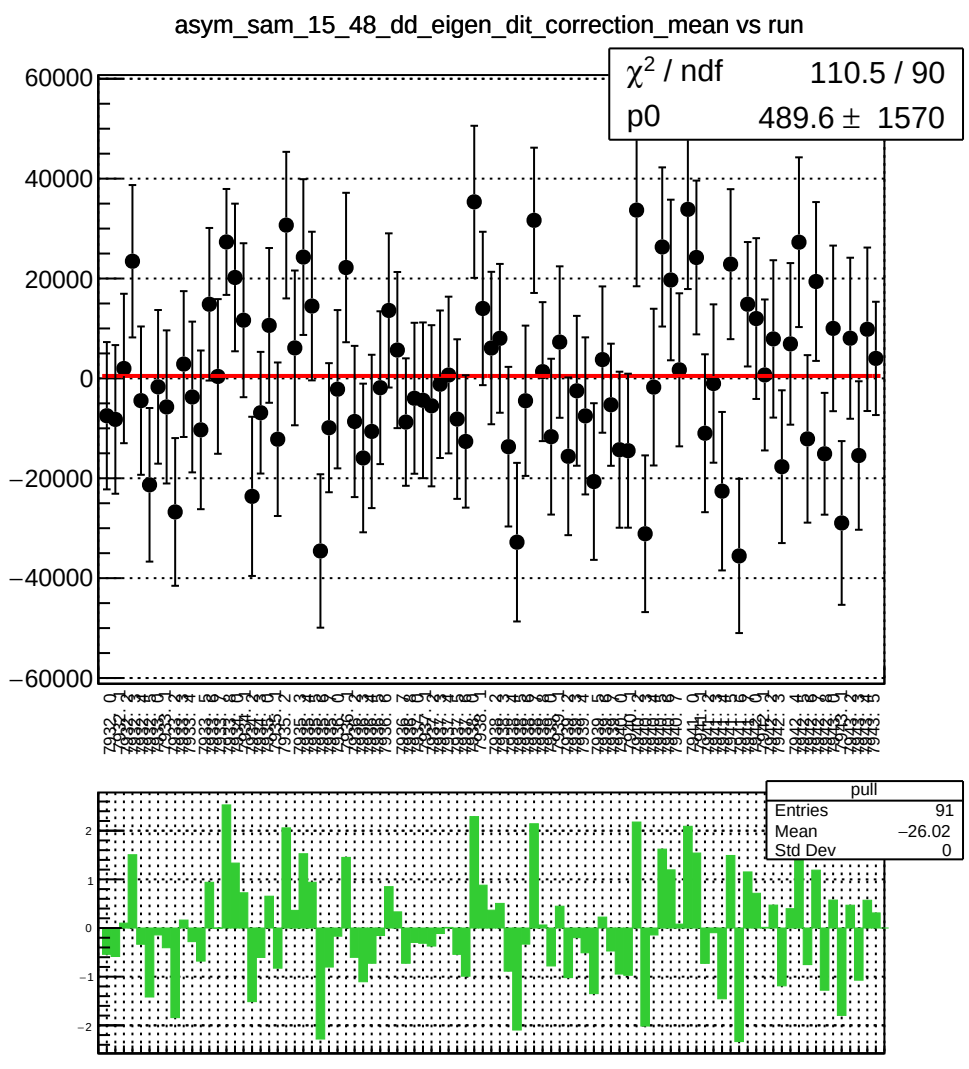

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 110.5 / 90
p0 489.6 ± 1570
pull
Entries 91
Mean −26.02
Std Dev 0

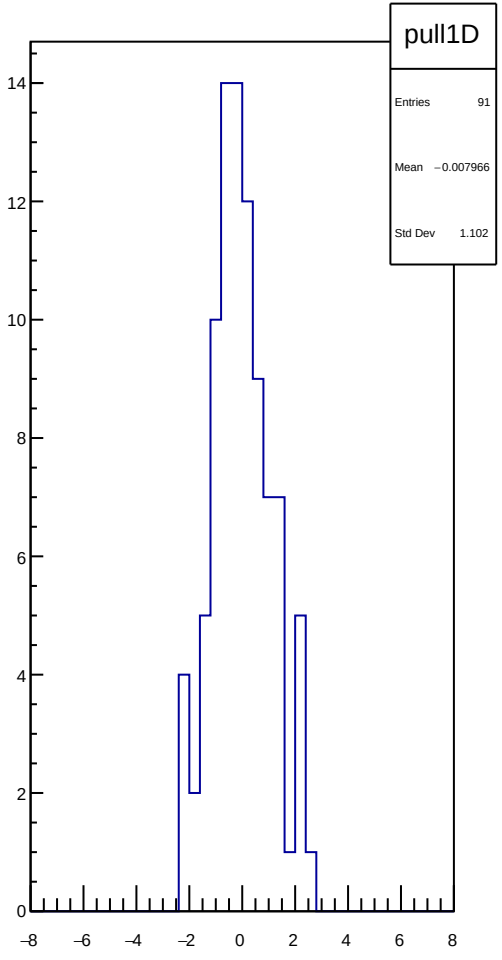

pull1D
Entries 91
Mean −0.007966
Std Dev 1.102

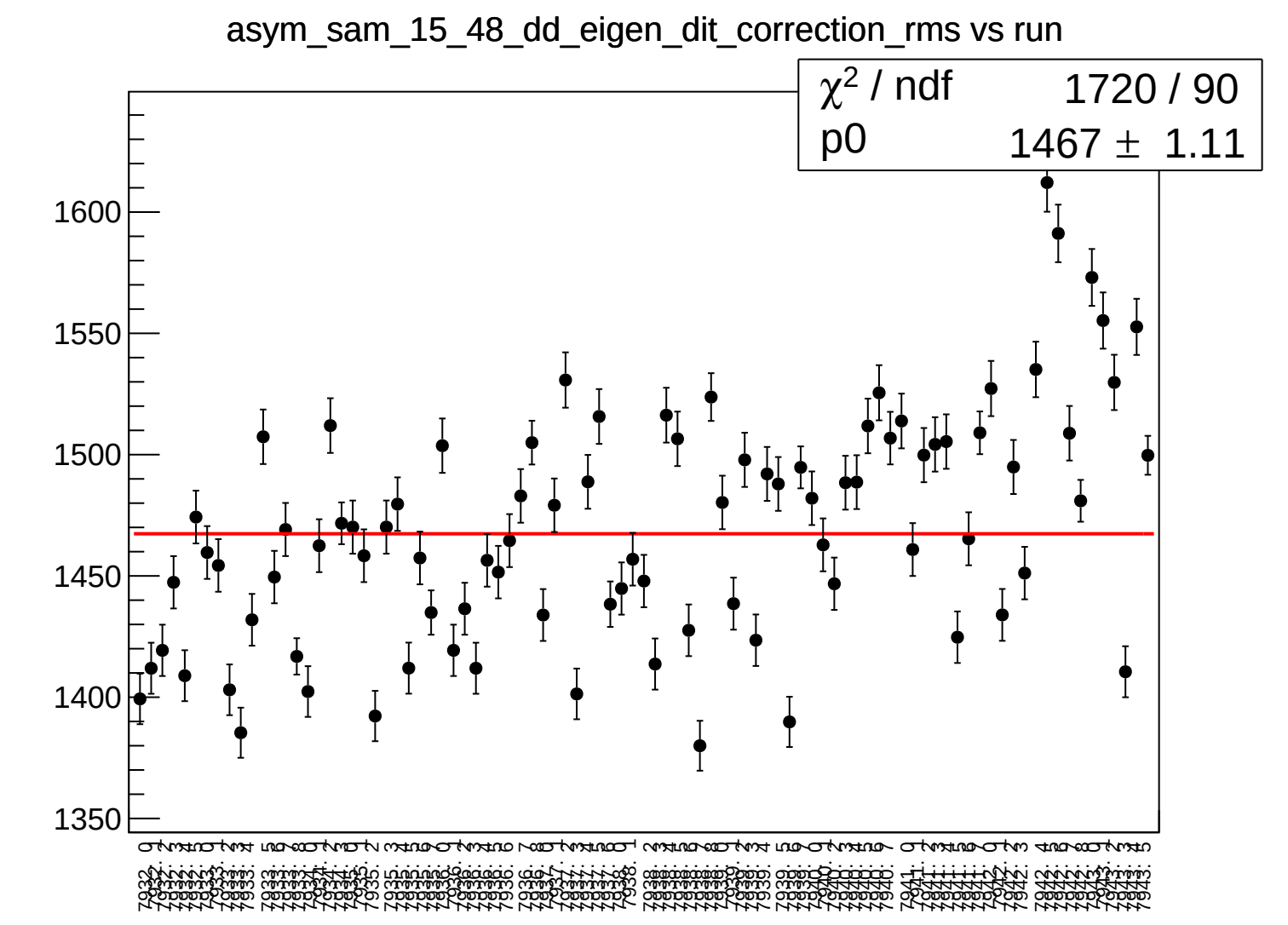

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1720 / 90
p0 1467 ± 1.11
1600
1550
1500
1450
1400
1350

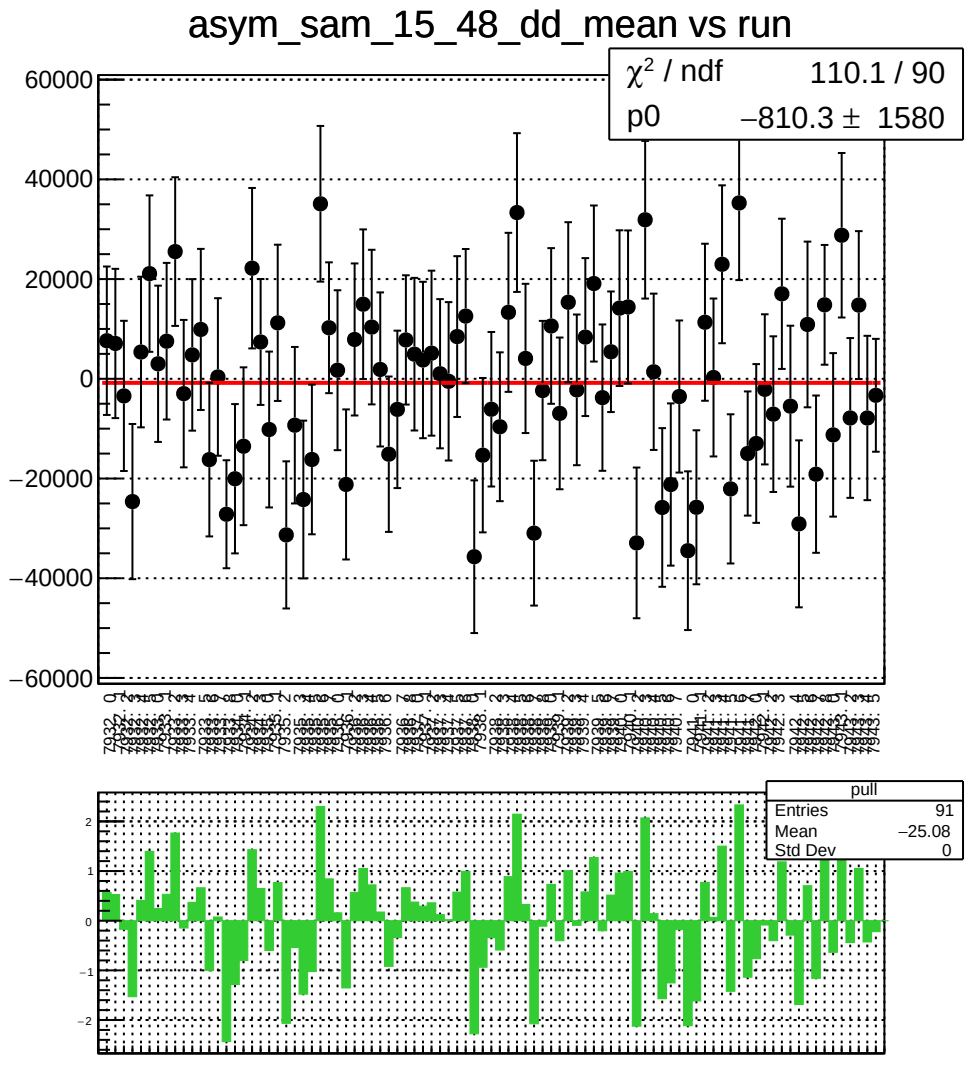

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 102.2 / 90
p0 −296.7 ± 98.45
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −25.57
Std Dev 0
pull1D
Entries 91
Mean −0.0124
Std Dev 1.06

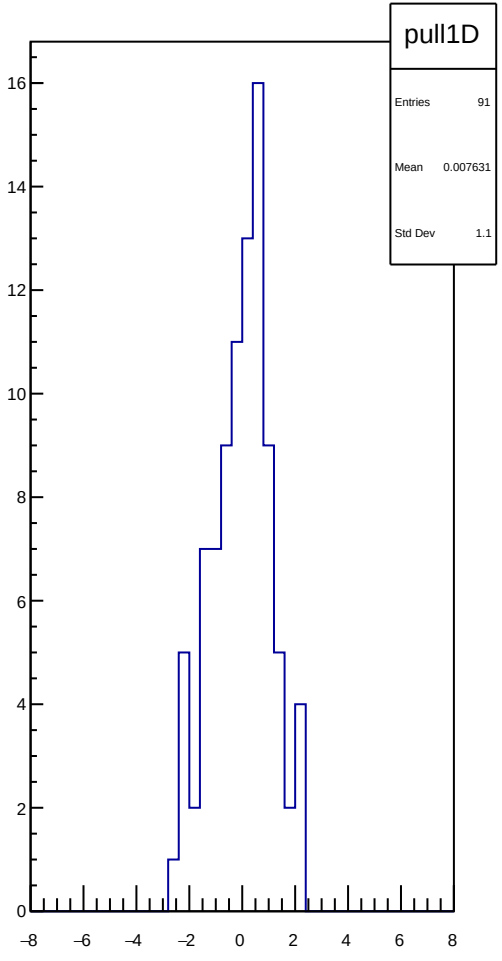

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 7370 / 90
p0 91.85 ± 0.06962
140
130
120
110
100
90
80

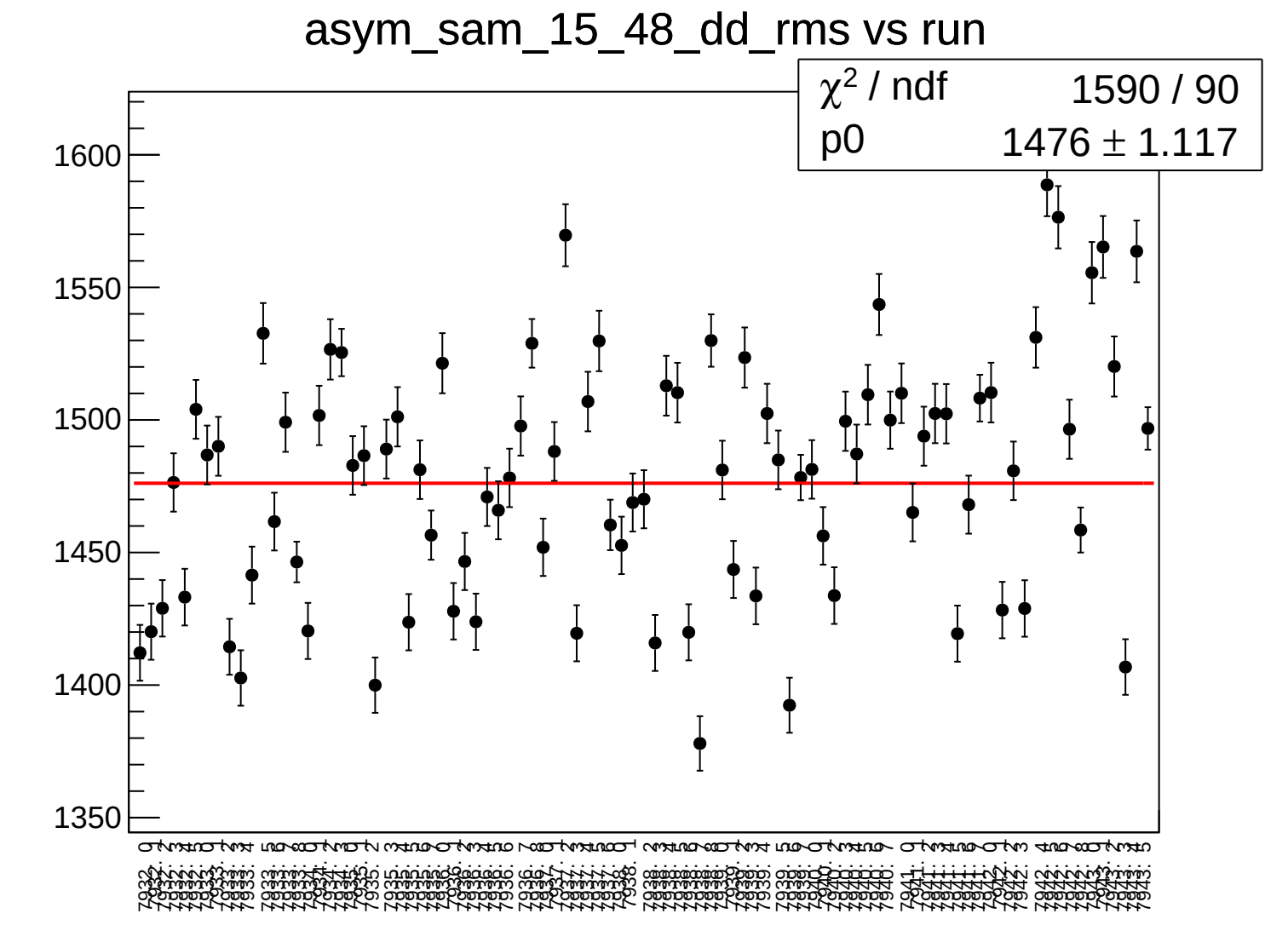

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.5 / 90
p0 489.6 ± 1570
pull
Entries 91
Mean −26.02
Std Dev 0

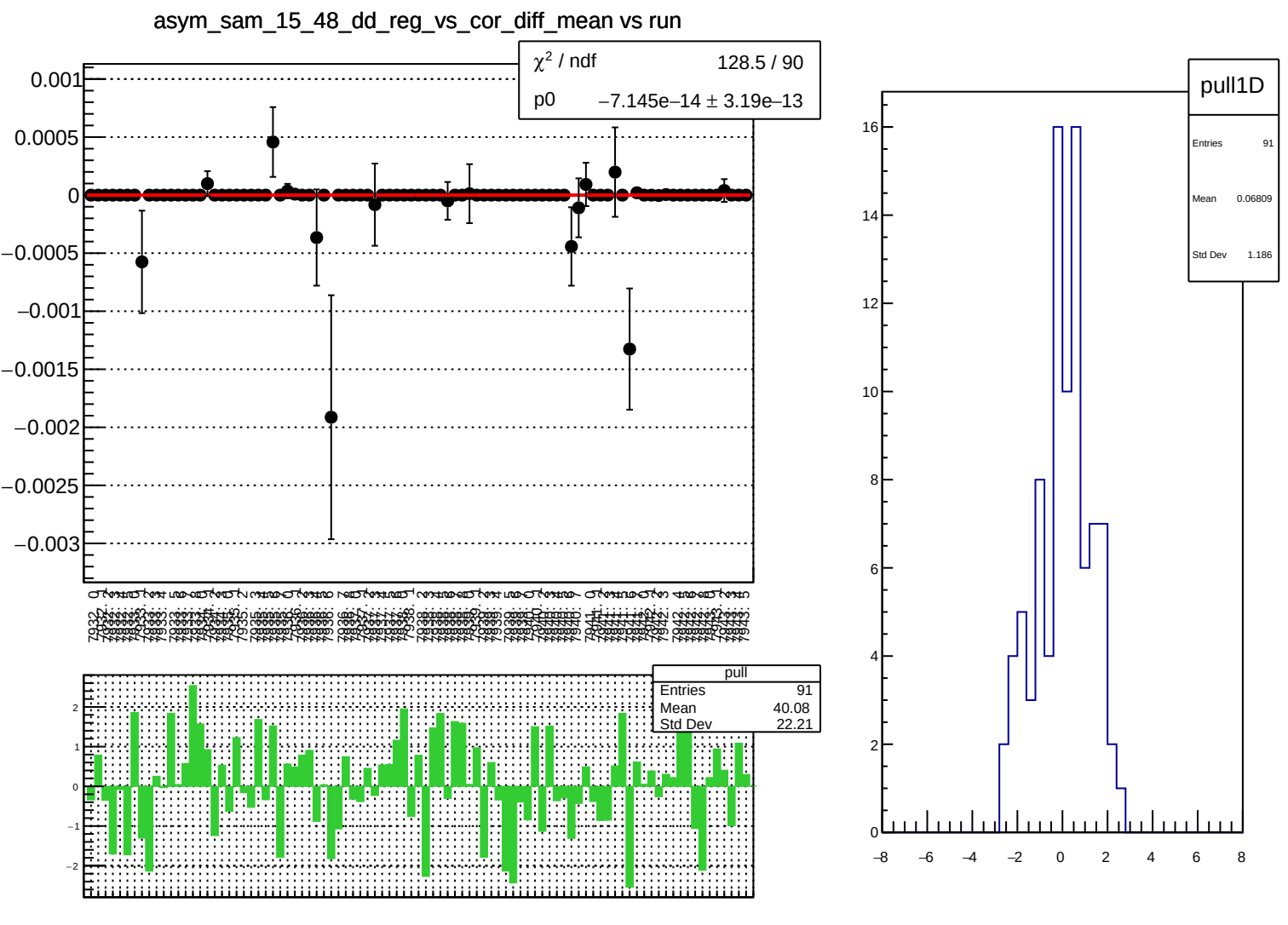

pull1D
Entries 91
Mean −0.007966
Std Dev 1.102

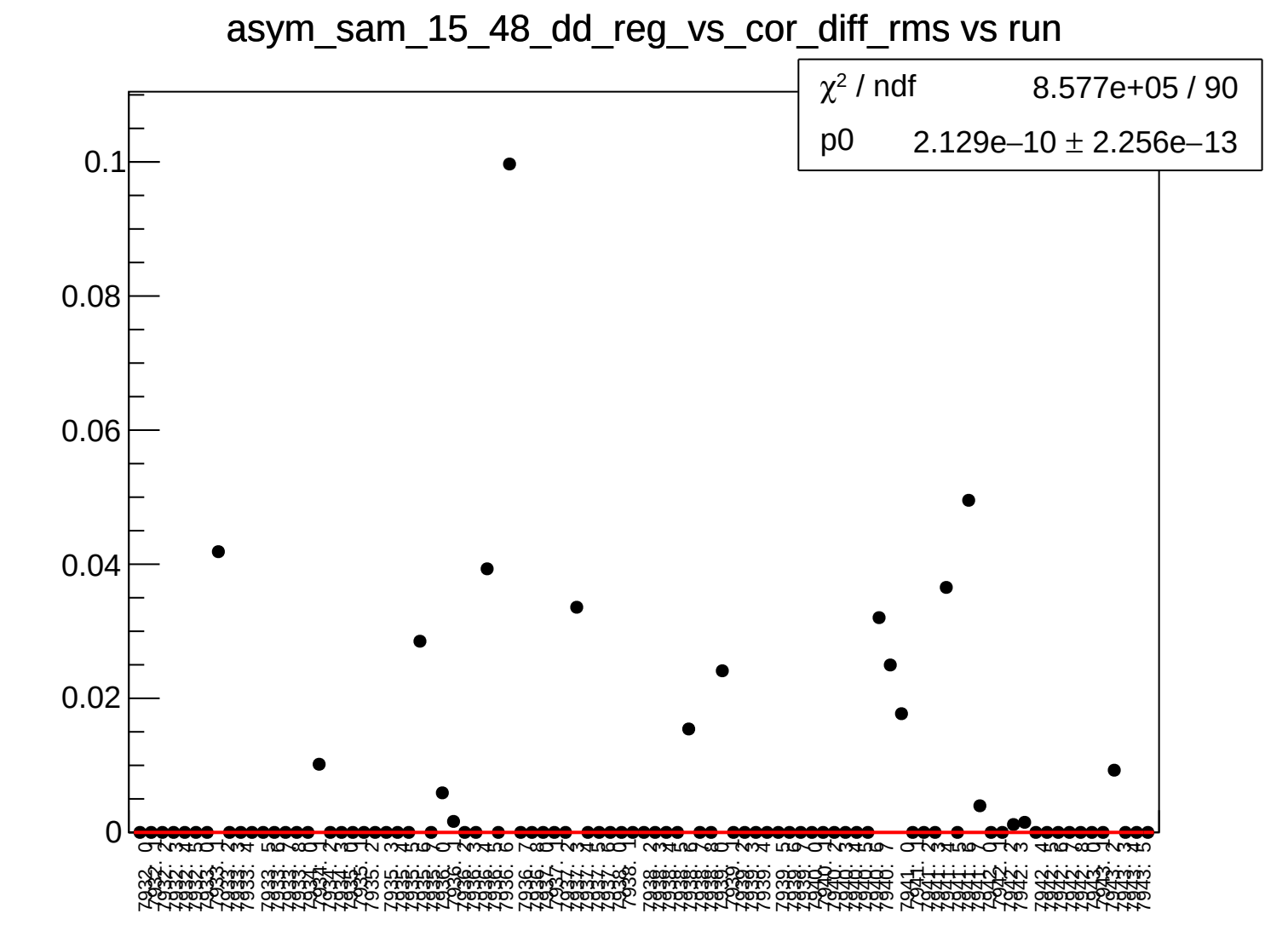

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1720 / 90
p0 1467 ± 1.11
1600
1550
1500
1450
1400
1350

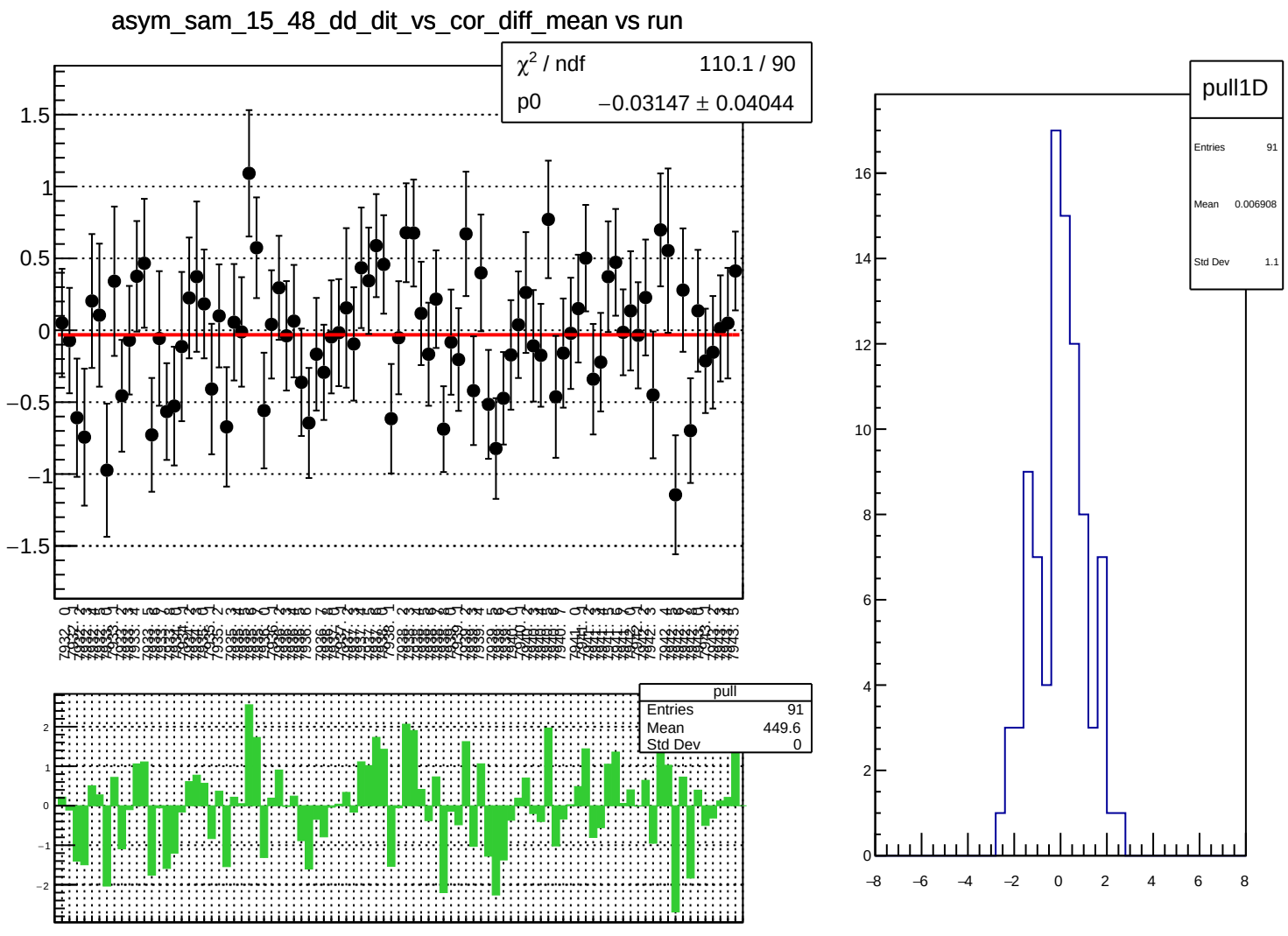

asym_sam_15_48_dd_mean vs run
χ² / ndf 110.1 / 90
p0 −810.3 ± 1580
pull
Entries 91
Mean −25.08
Std Dev 0

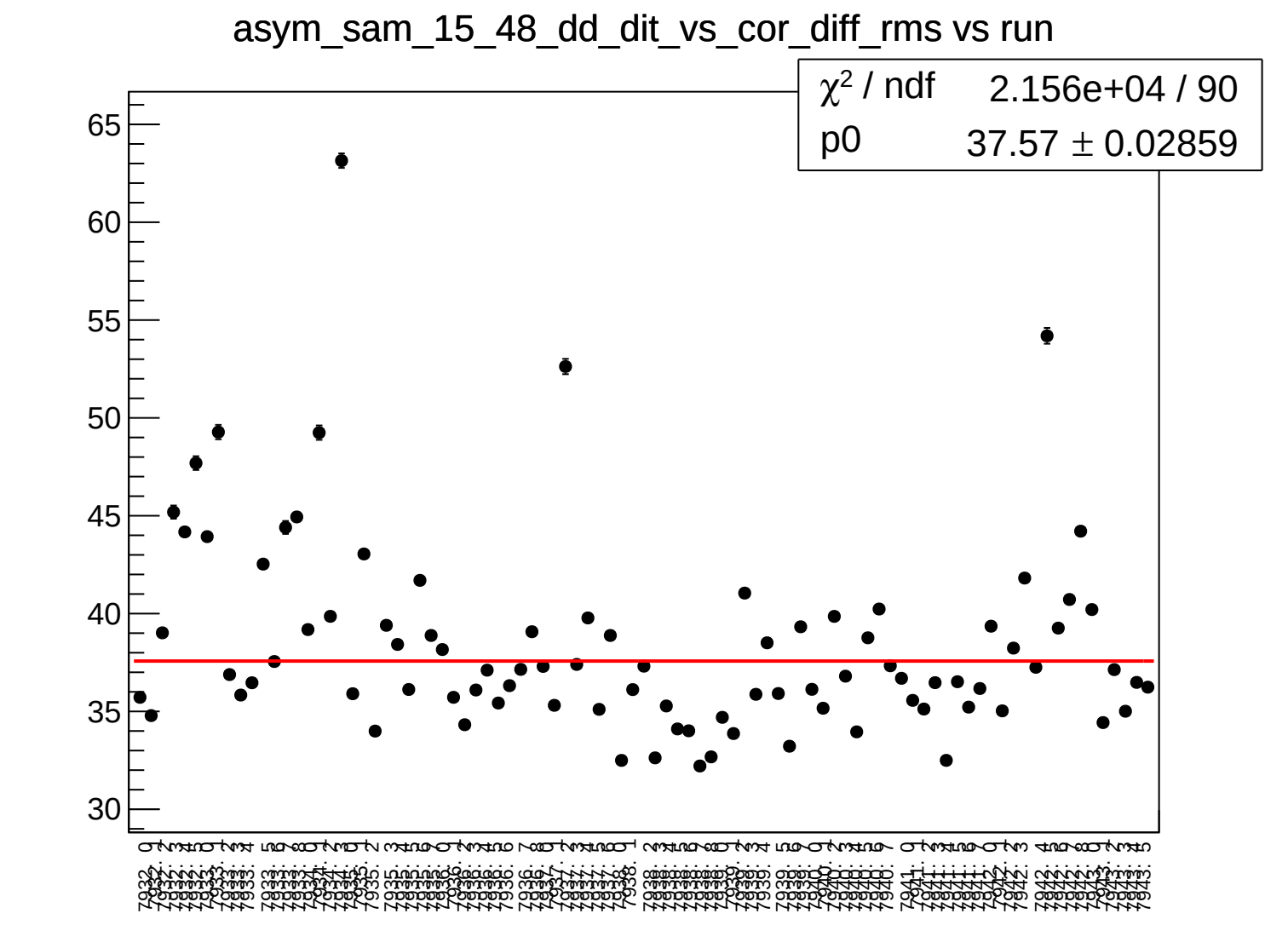

pull1D
Entries 91
Mean 0.007631
Std Dev 1.1

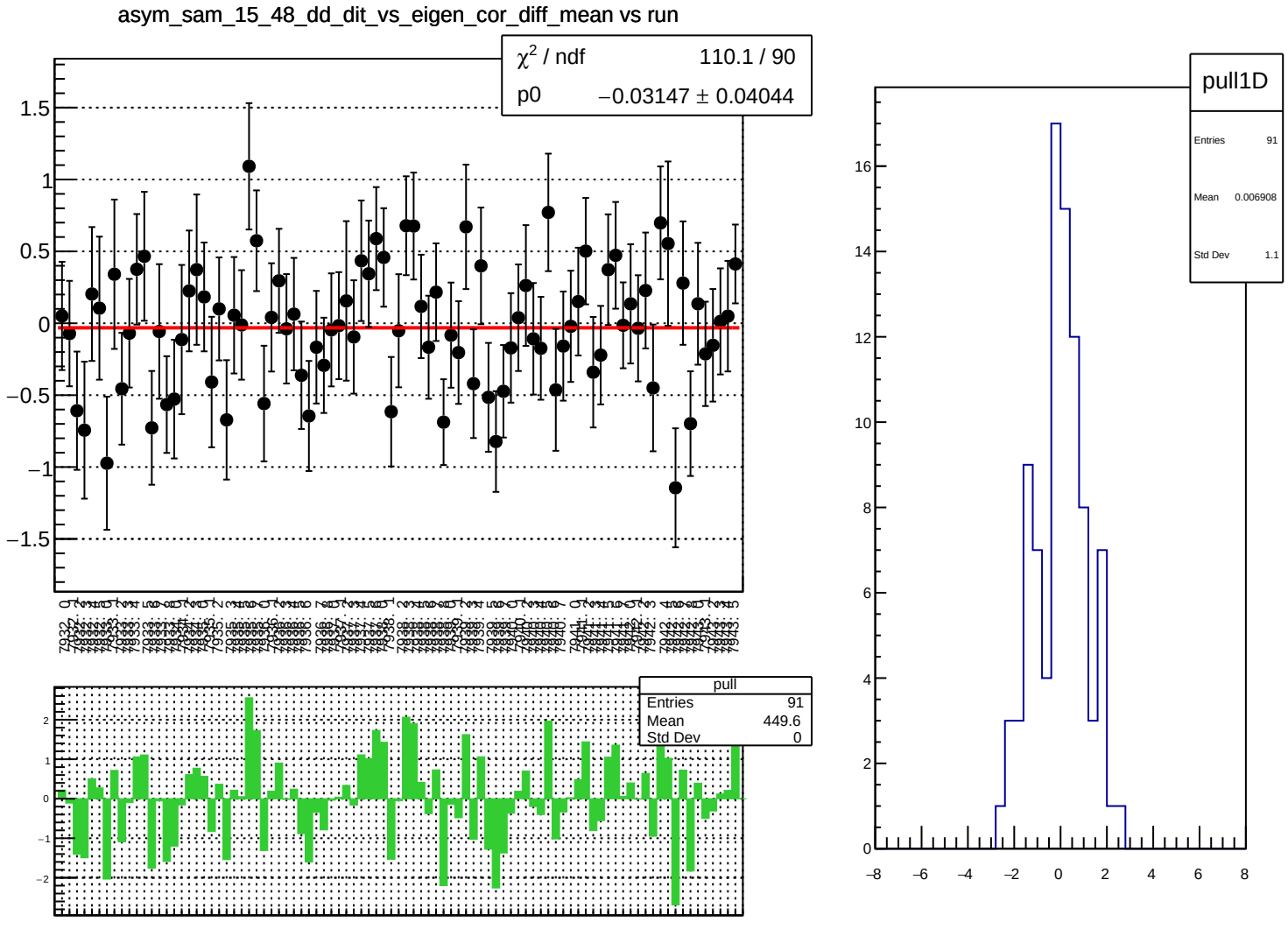

asym_sam_15_48_dd_rms vs run
χ² / ndf 1590 / 90
p0 1476 ± 1.117
1600
1550
1500
1450
1400
1350

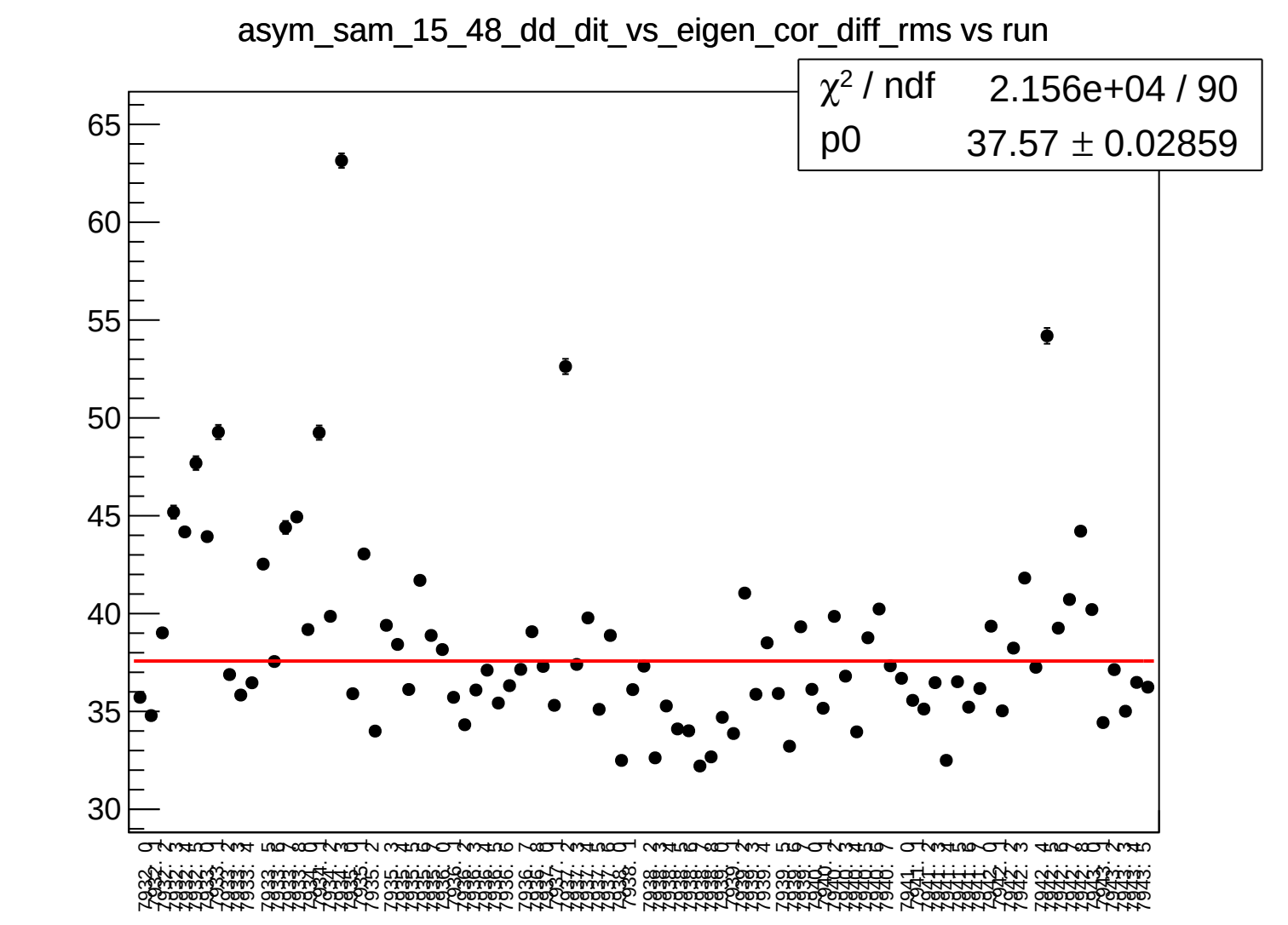

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 128.5 / 90
p0 −7.145e−14 ± 3.19e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
pull
Entries 91
Mean 40.08
Std Dev 22.21
pull1D
Entries 91
Mean 0.06809
Std Dev 1.186

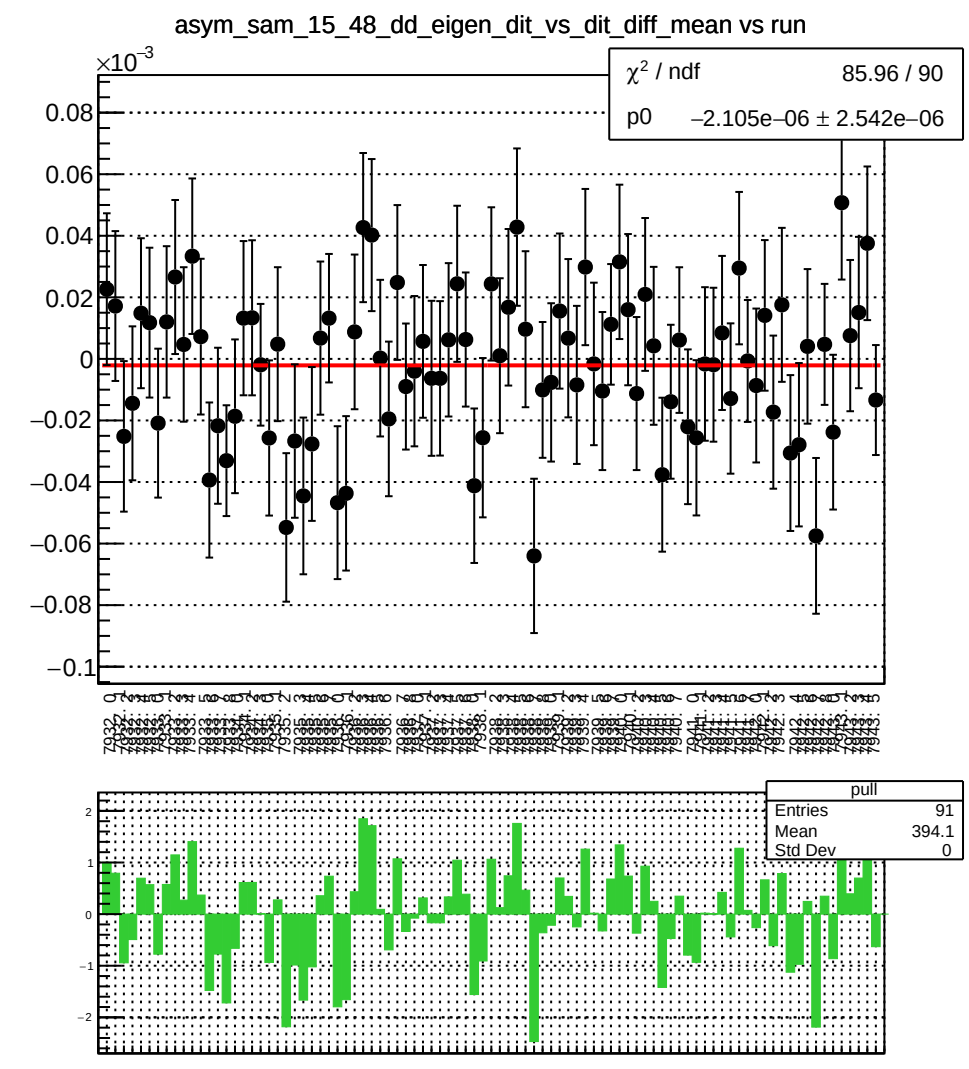

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.577e+05 / 90
p0 2.129e−10 ± 2.256e−13
0.1
0.08
0.06
0.04
0.02
0

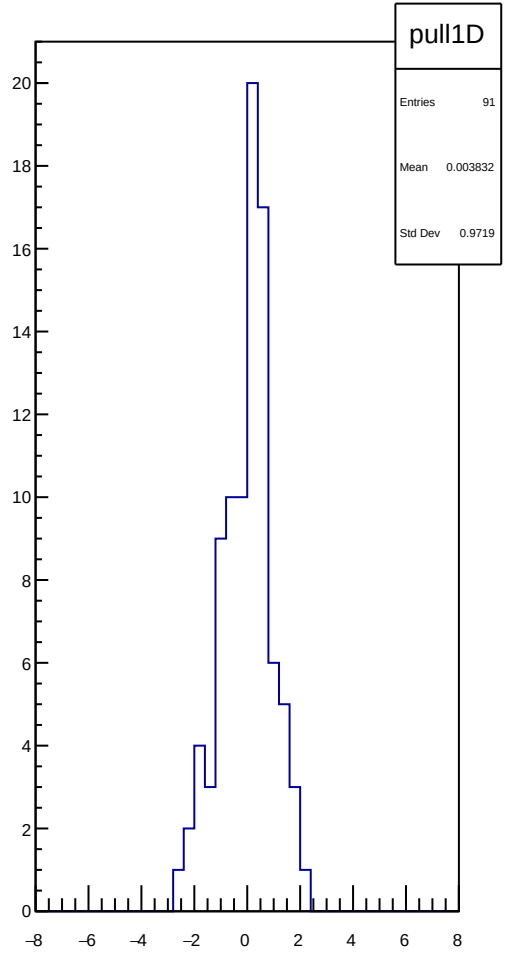

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.1 / 90
p0 −0.03147 ± 0.04044
pull
Entries 91
Mean 449.6
Std Dev 0
pull1D
Entries 91
Mean 0.006908
Std Dev 1.1

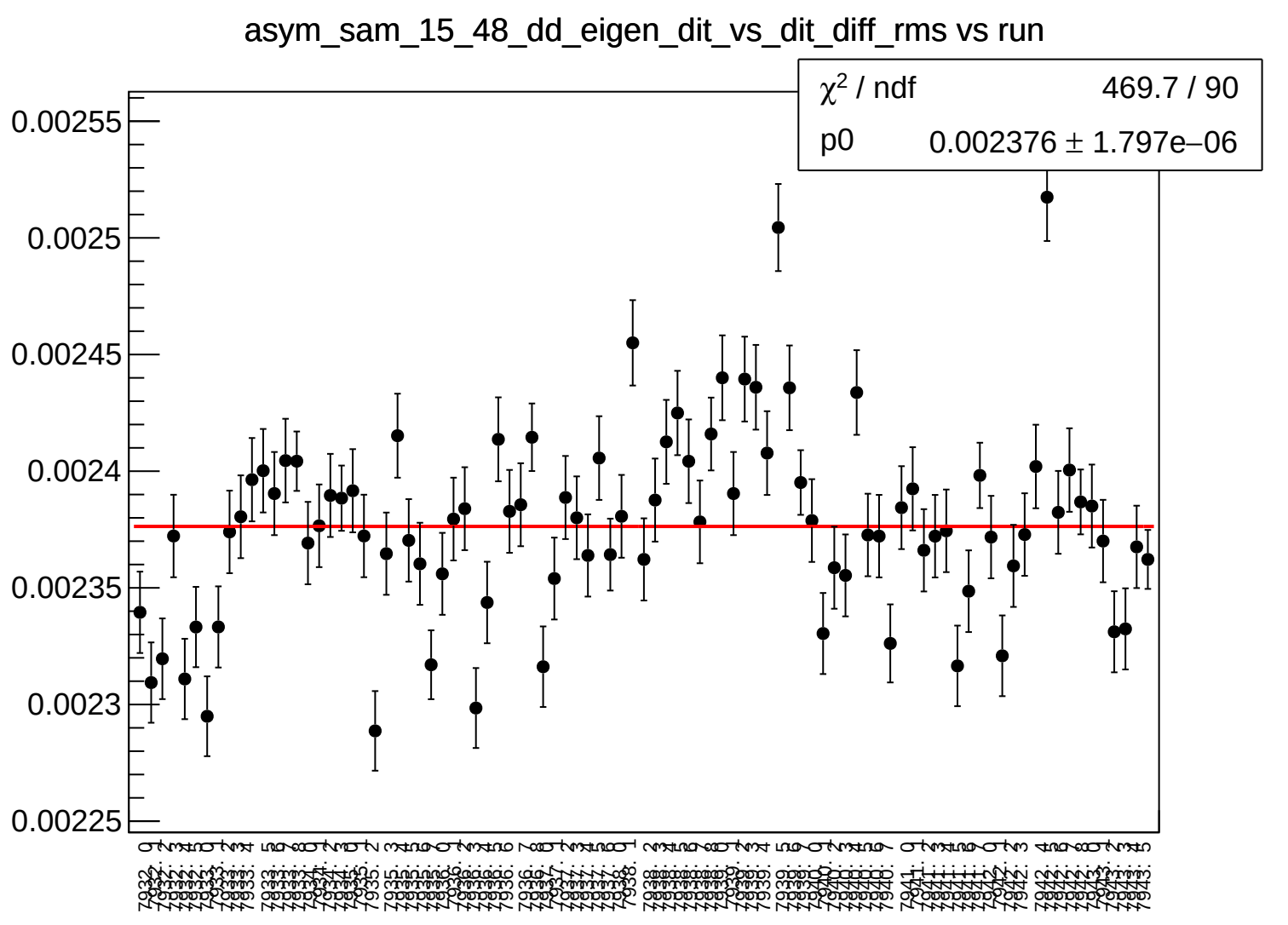

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.156e+04 / 90
p0 37.57 ± 0.02859
65
60
55
50
45
40
35
30

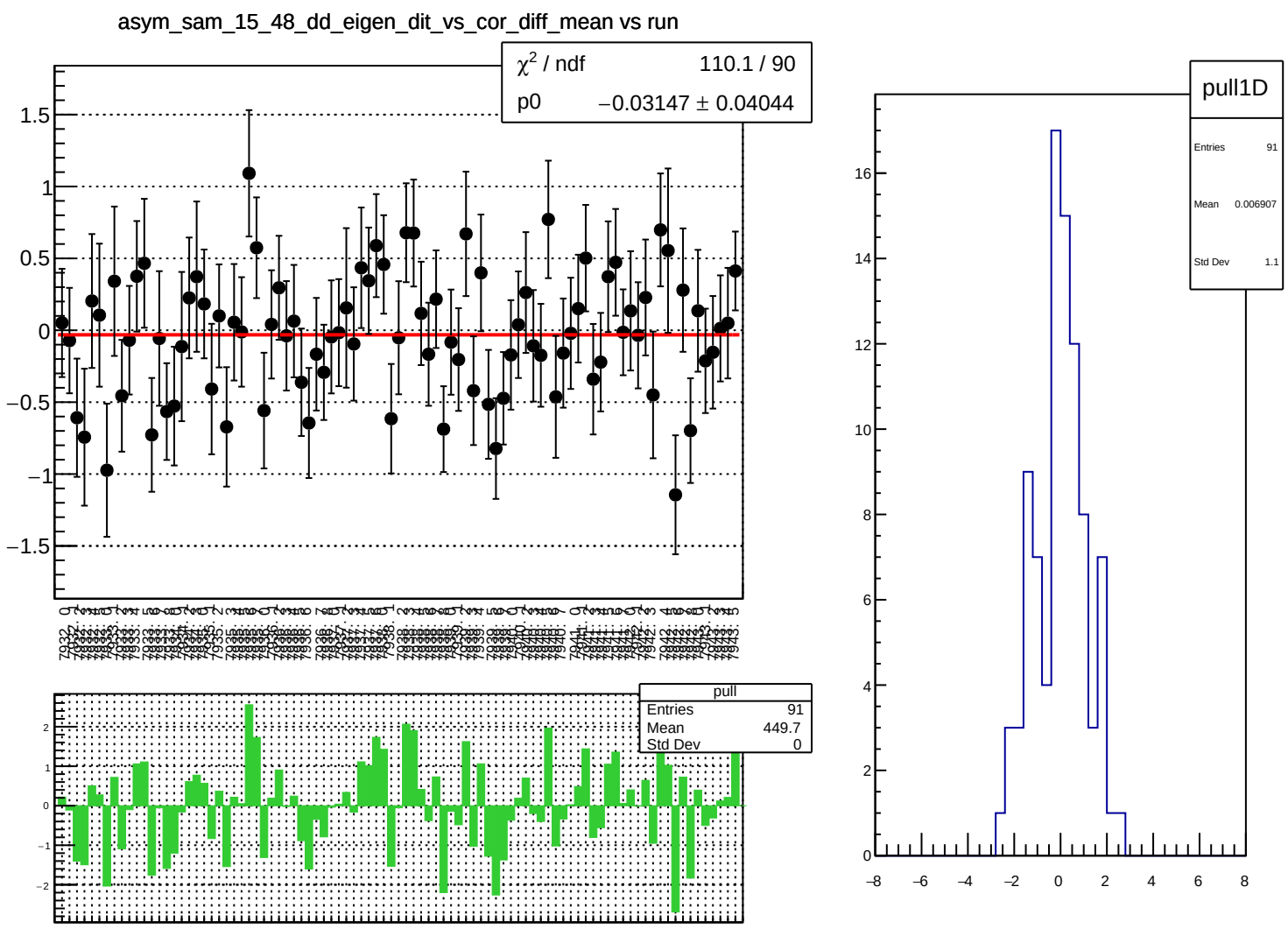

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.1 / 90
p0 −0.03147 ± 0.04044
pull
Entries 91
Mean 449.6
Std Dev 0
pull1D
Entries 91
Mean 0.006908
Std Dev 1.1

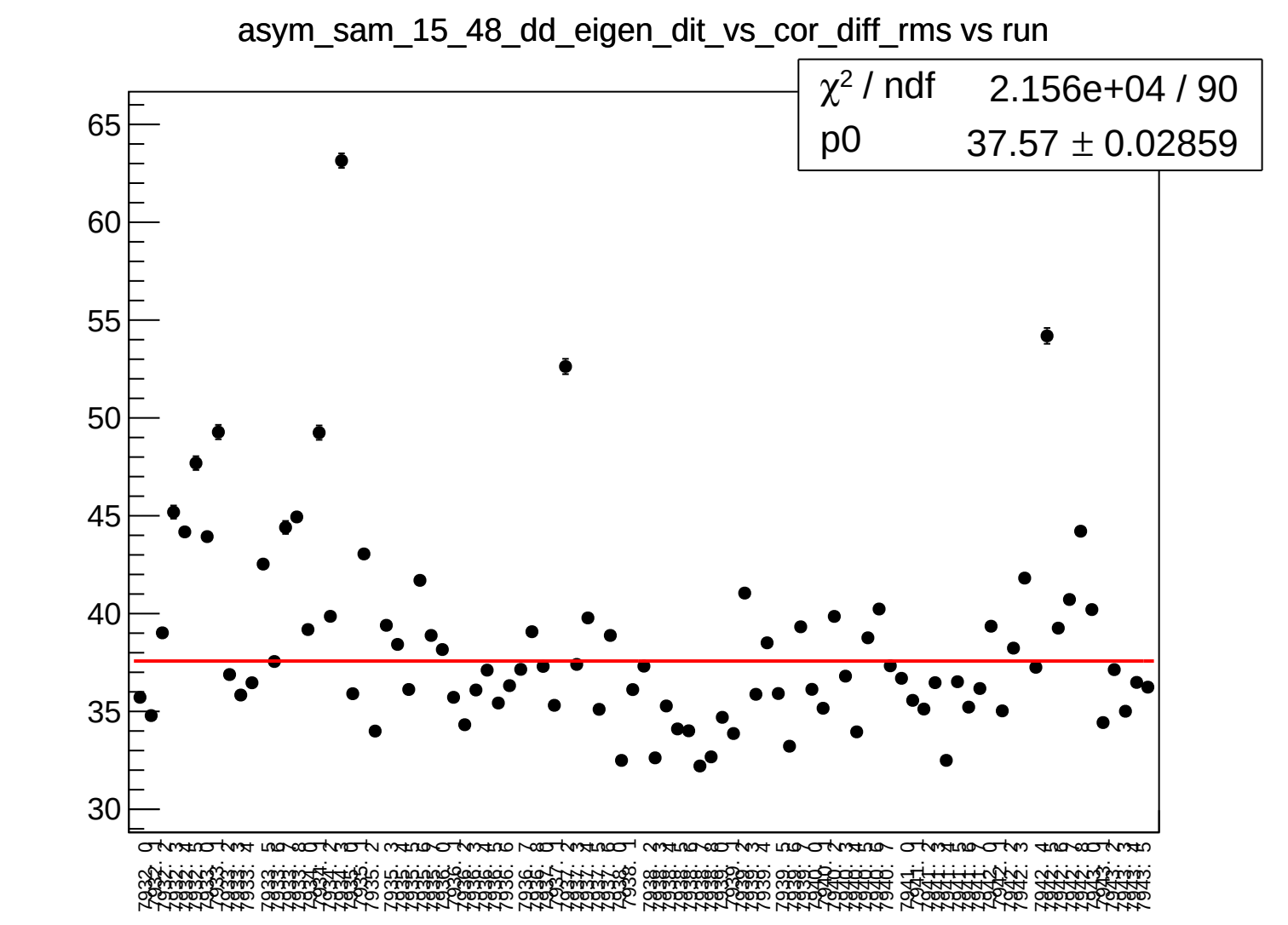

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.156e+04 / 90
p0 37.57 ± 0.02859
65
60
55
50
45
40
35
30

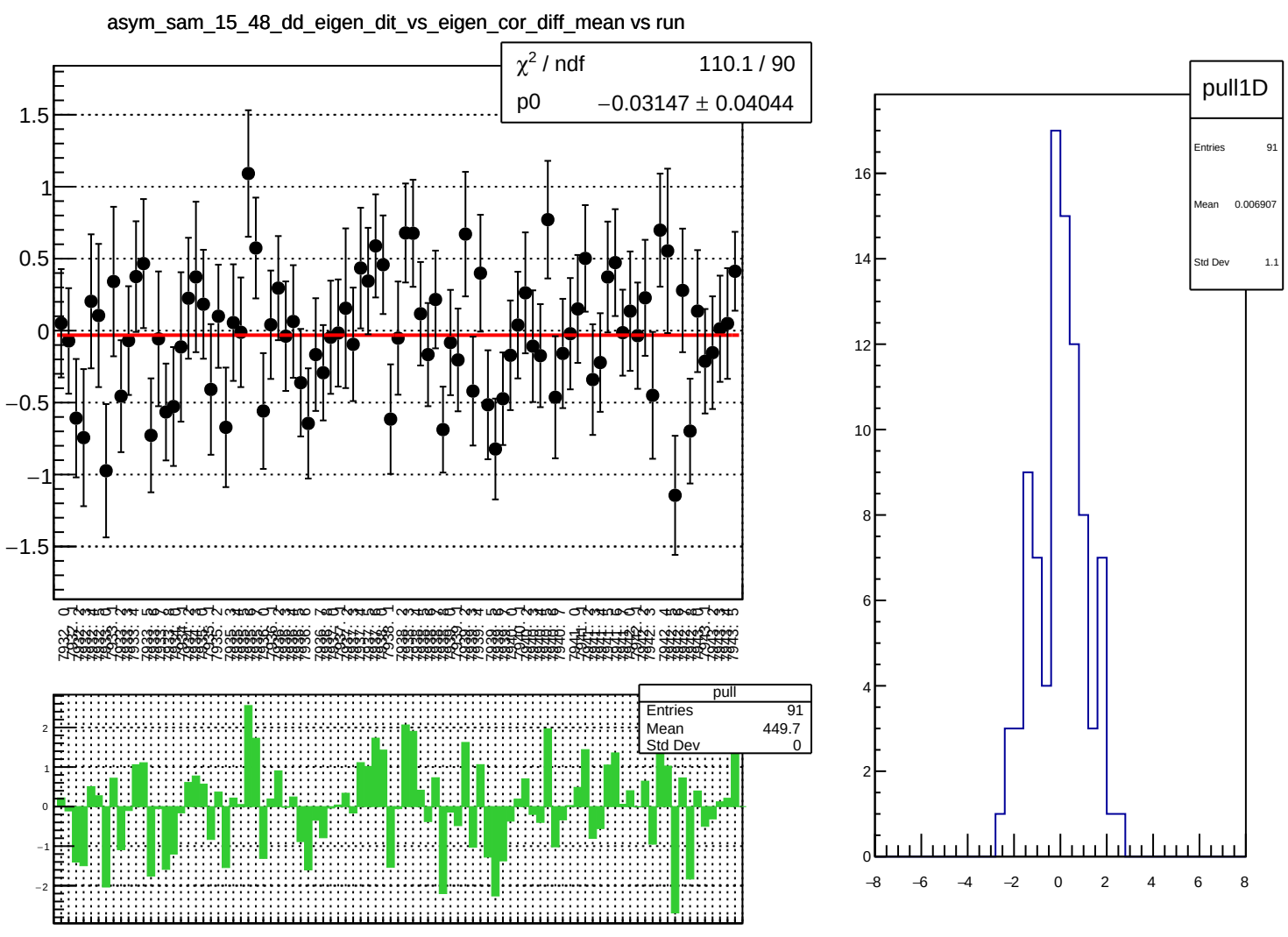

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.96 / 90
p0 −2.105e−06 ± 2.542e−06
pull
Entries 91
Mean 394.1
Std Dev 0

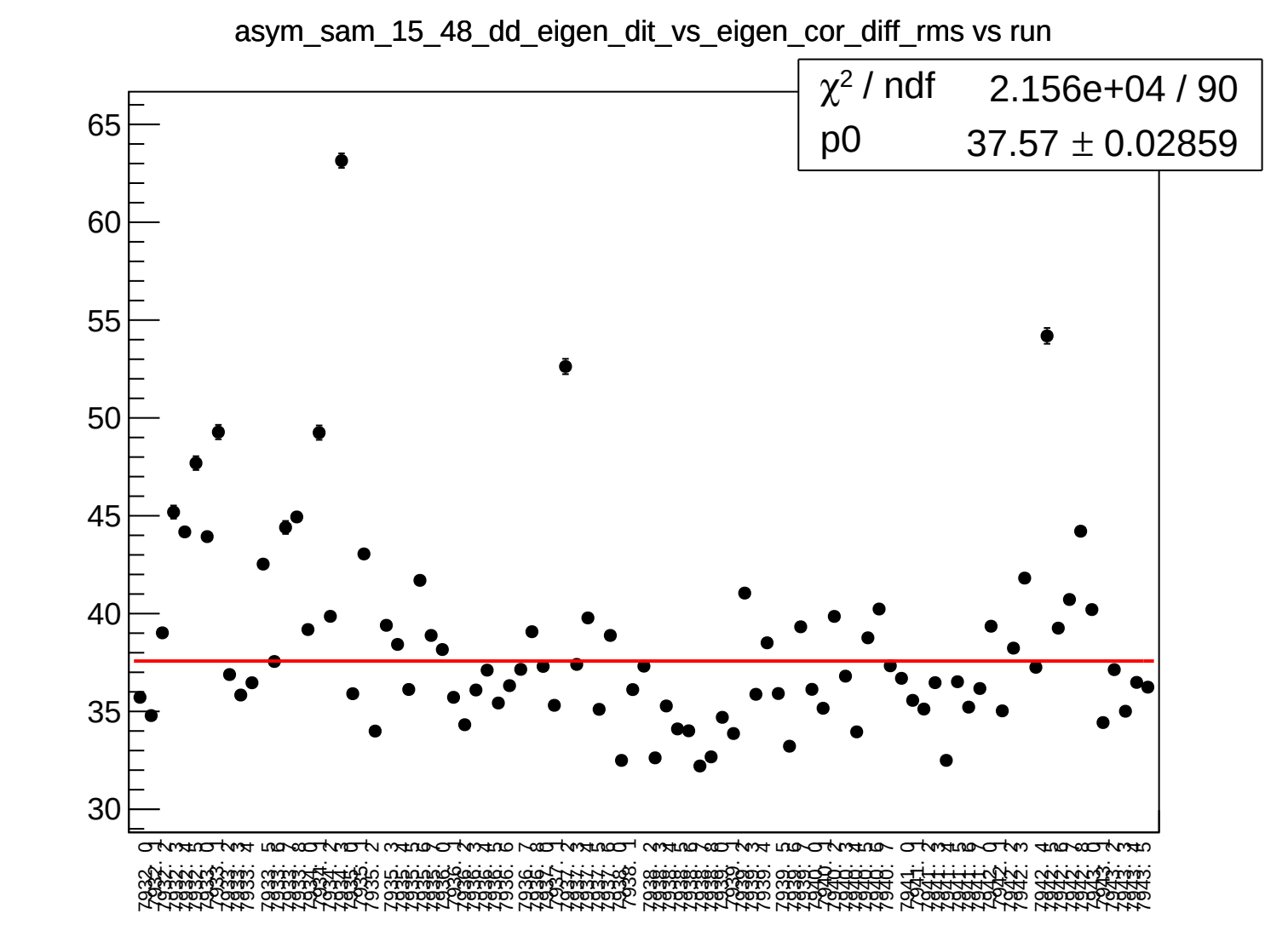

pull1D
Entries 91
Mean 0.003832
Std Dev 0.9719

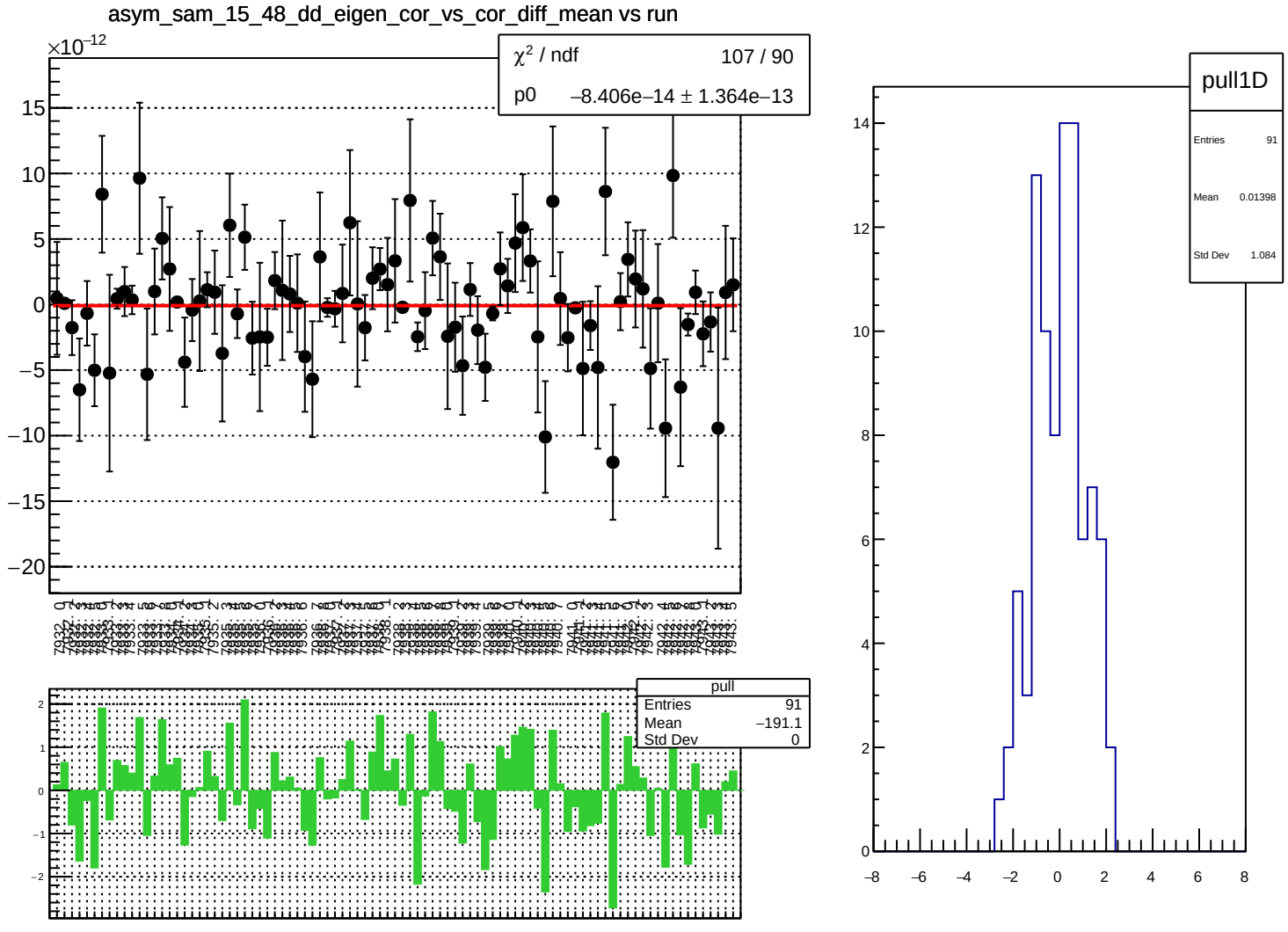

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 469.7 / 90
p0 0.002376 ± 1.797e−06
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225

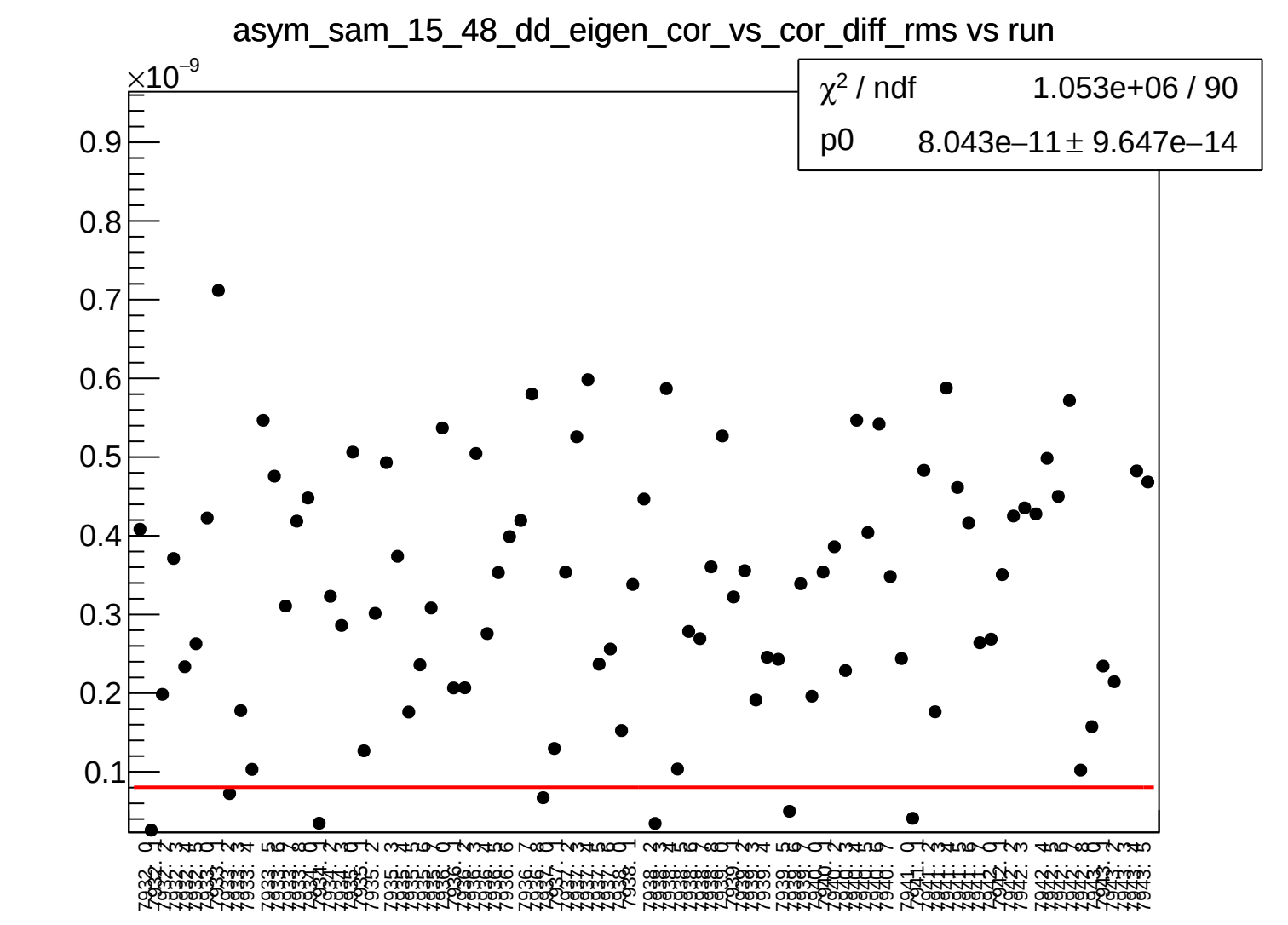

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.1 / 90
p0 −0.03147 ± 0.04044
pull
Entries 91
Mean 449.7
Std Dev 0
pull1D
Entries 91
Mean 0.006907
Std Dev 1.1

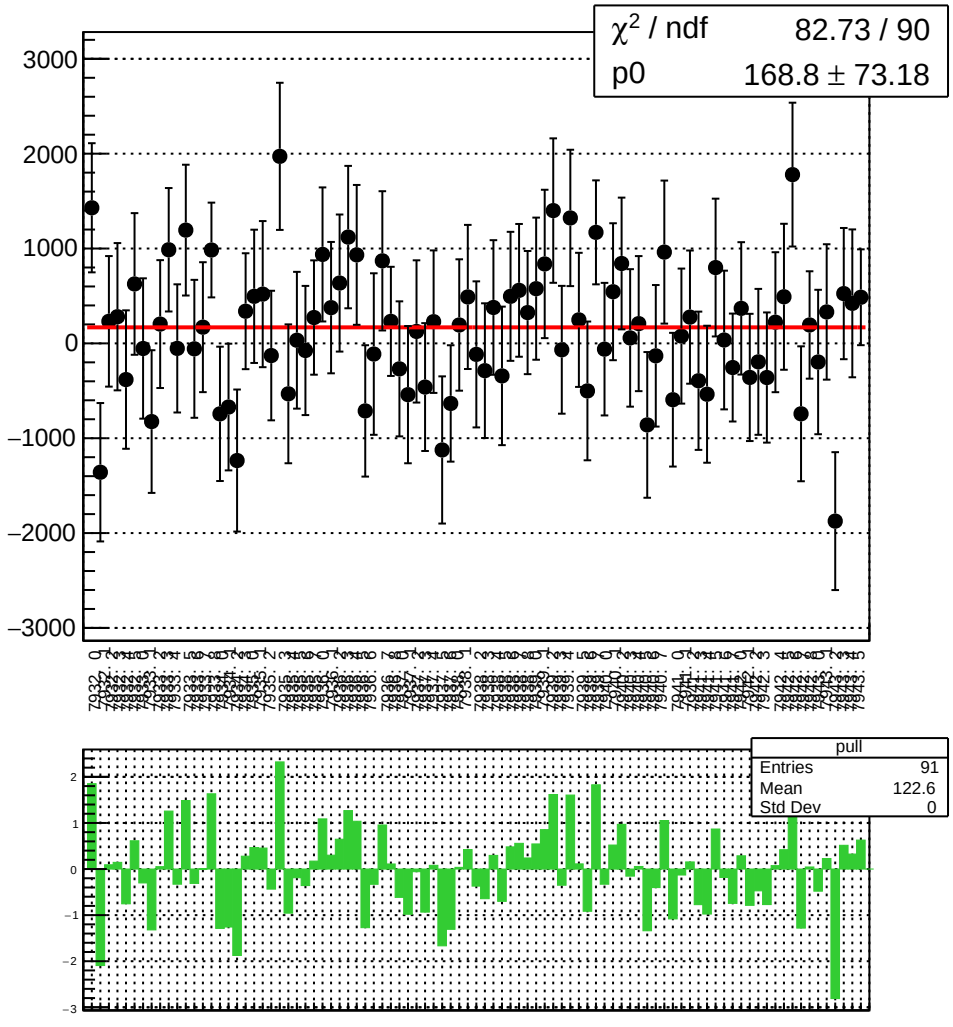

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.156e+04 / 90
p0 37.57 ± 0.02859
65
60
55
50
45
40
35
30

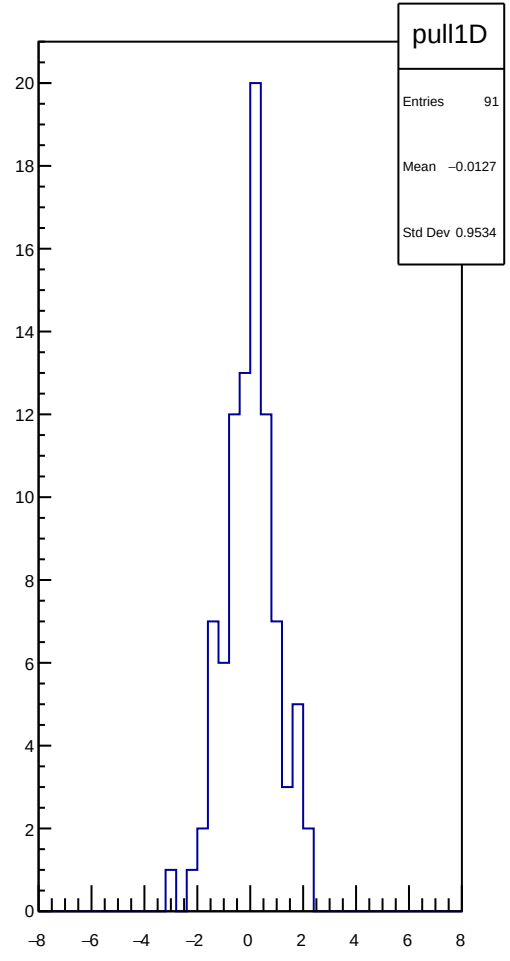

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.1 / 90
p0 −0.03147 ± 0.04044
pull
Entries 91
Mean 449.7
Std Dev 0
pull1D
Entries 91
Mean 0.006907
Std Dev 1.1

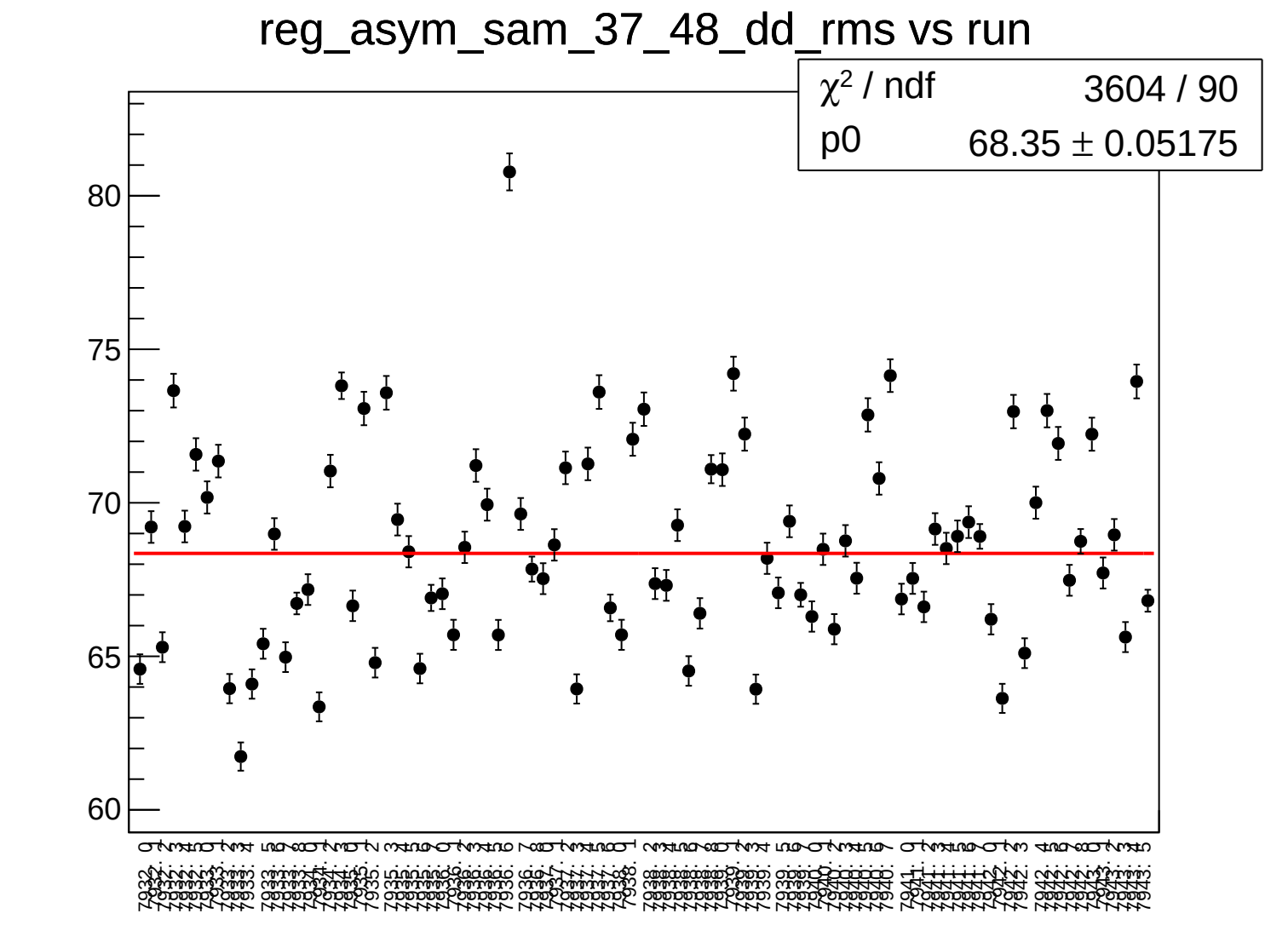

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.156e+04 / 90
p0 37.57 ± 0.02859
65
60
55
50
45
40
35
30

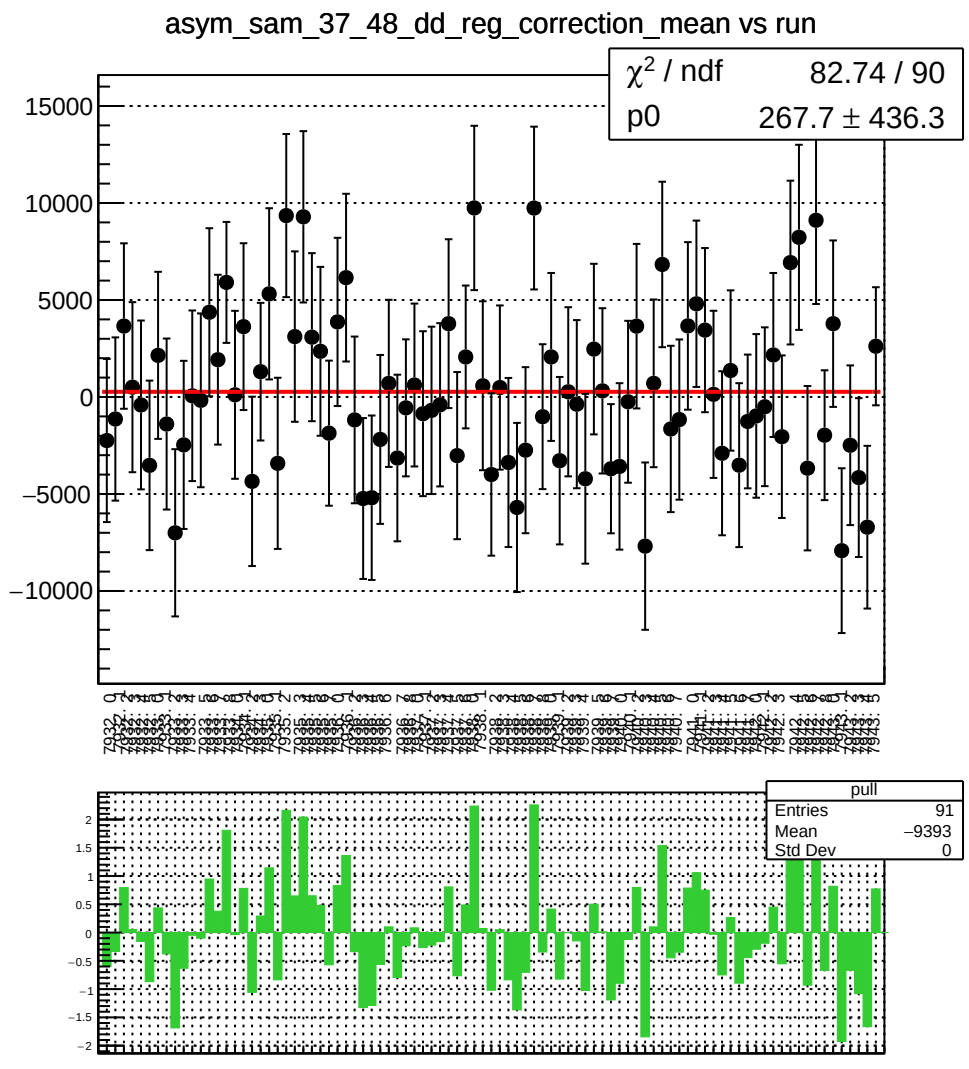

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107 / 90
p0 −8.406e−14 ± 1.364e−13
pull
Entries 91
Mean −191.1
Std Dev 0
pull1D
Entries 91
Mean 0.01398
Std Dev 1.084

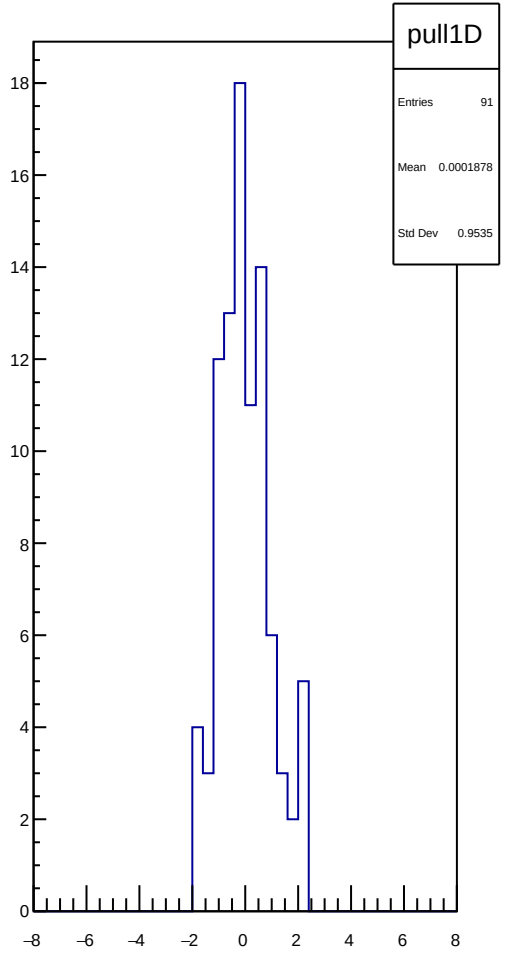

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.053e+06 / 90
p0 8.043e−11 ± 9.647e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

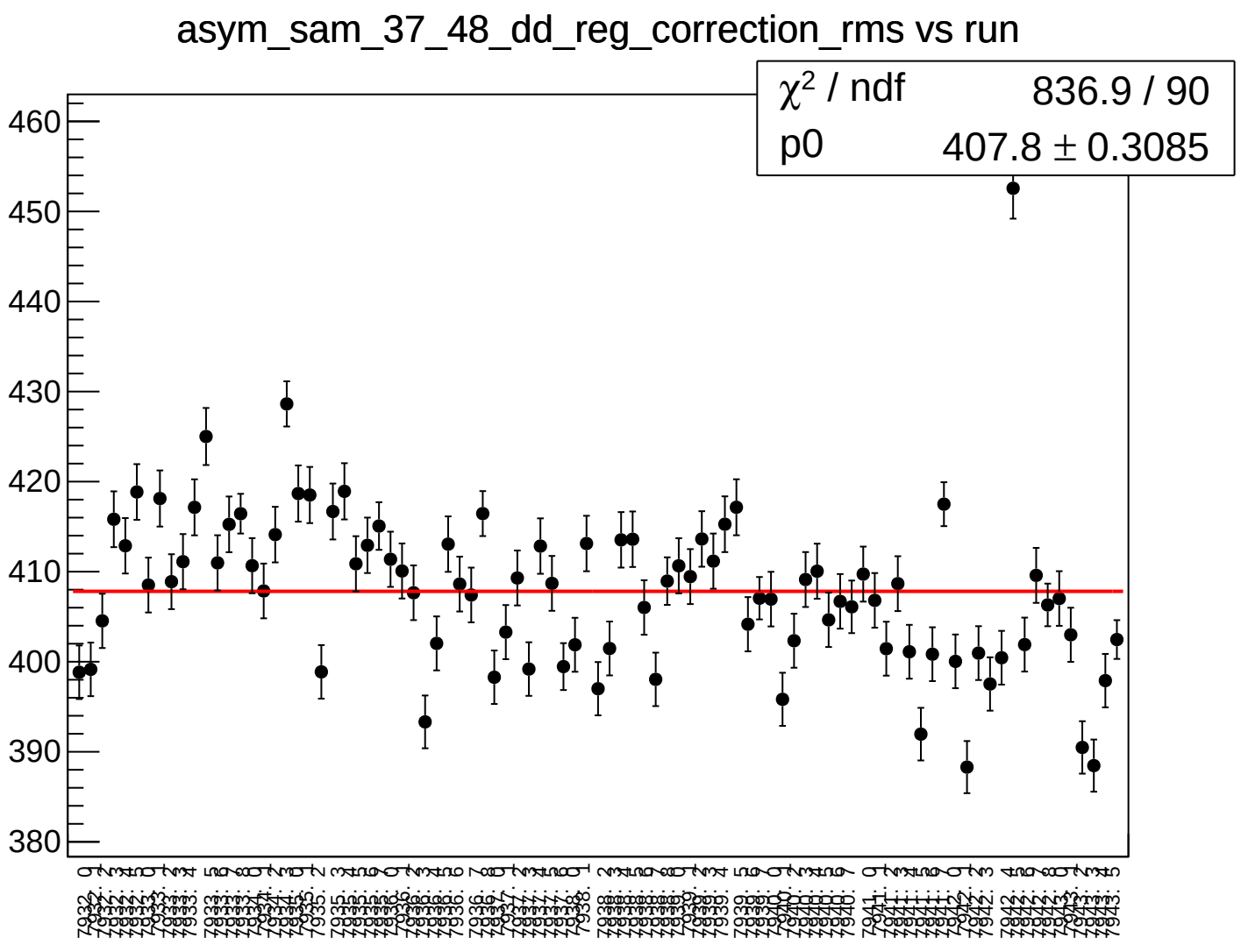

reg_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 82.73 / 90
p0 168.8 ± 73.18
pull
Entries 91
Mean 122.6
Std Dev 0

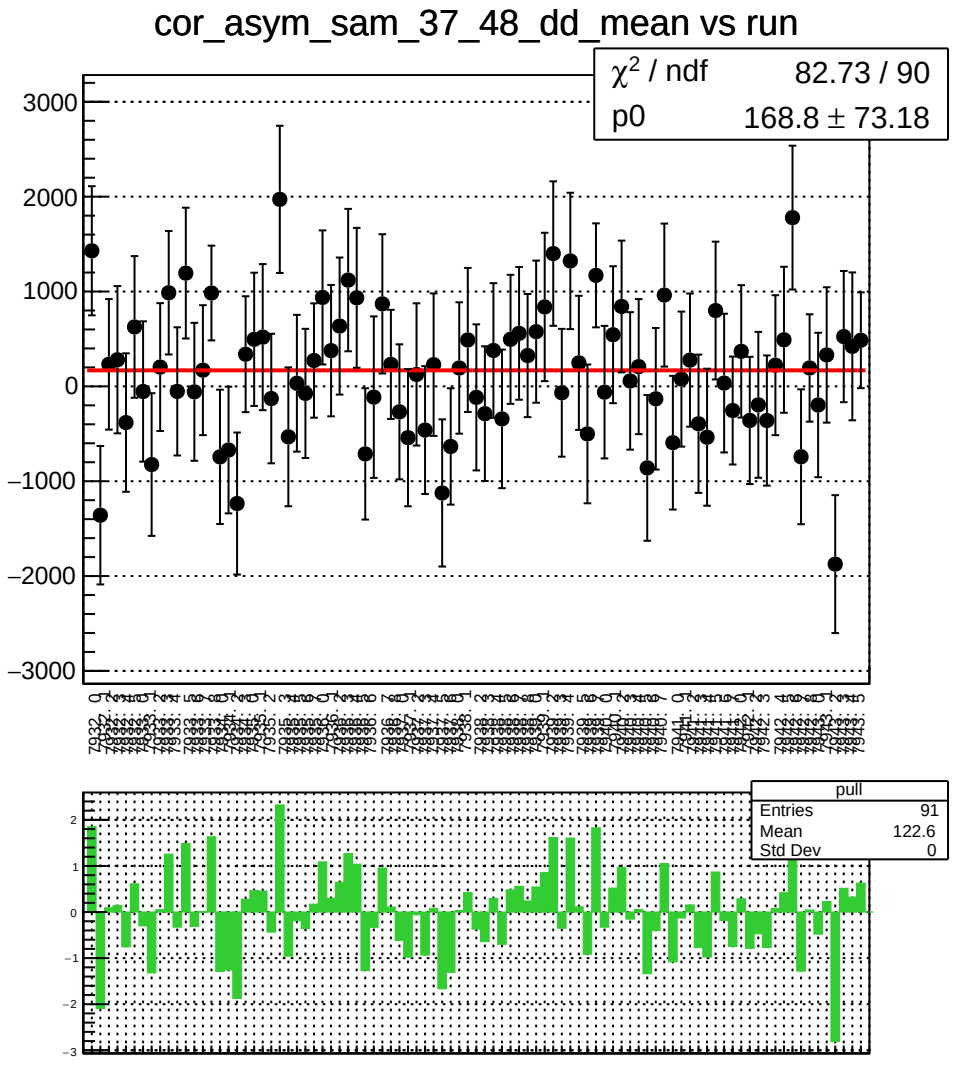

pull1D
Entries 91
Mean −0.0127
Std Dev 0.9534

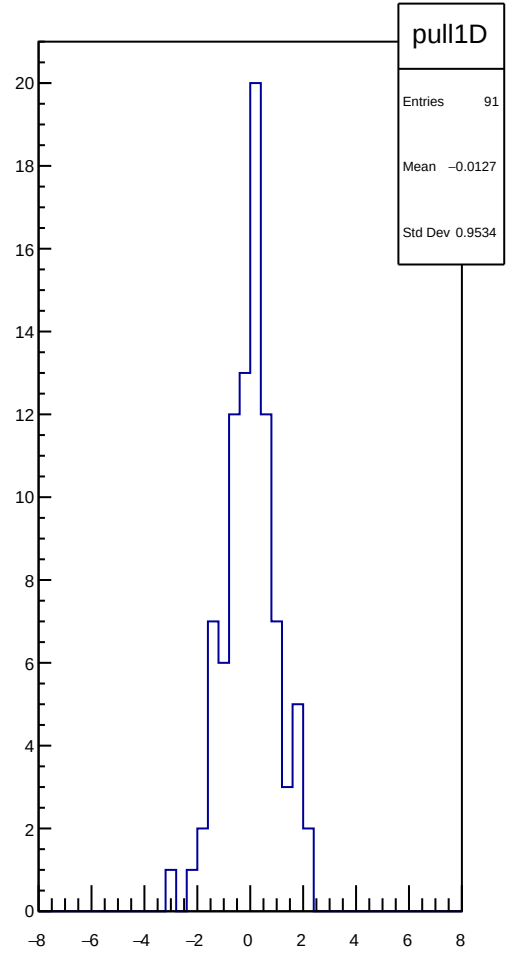

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 3604 / 90
p0 68.35 ± 0.05175
80
75
70
65
60

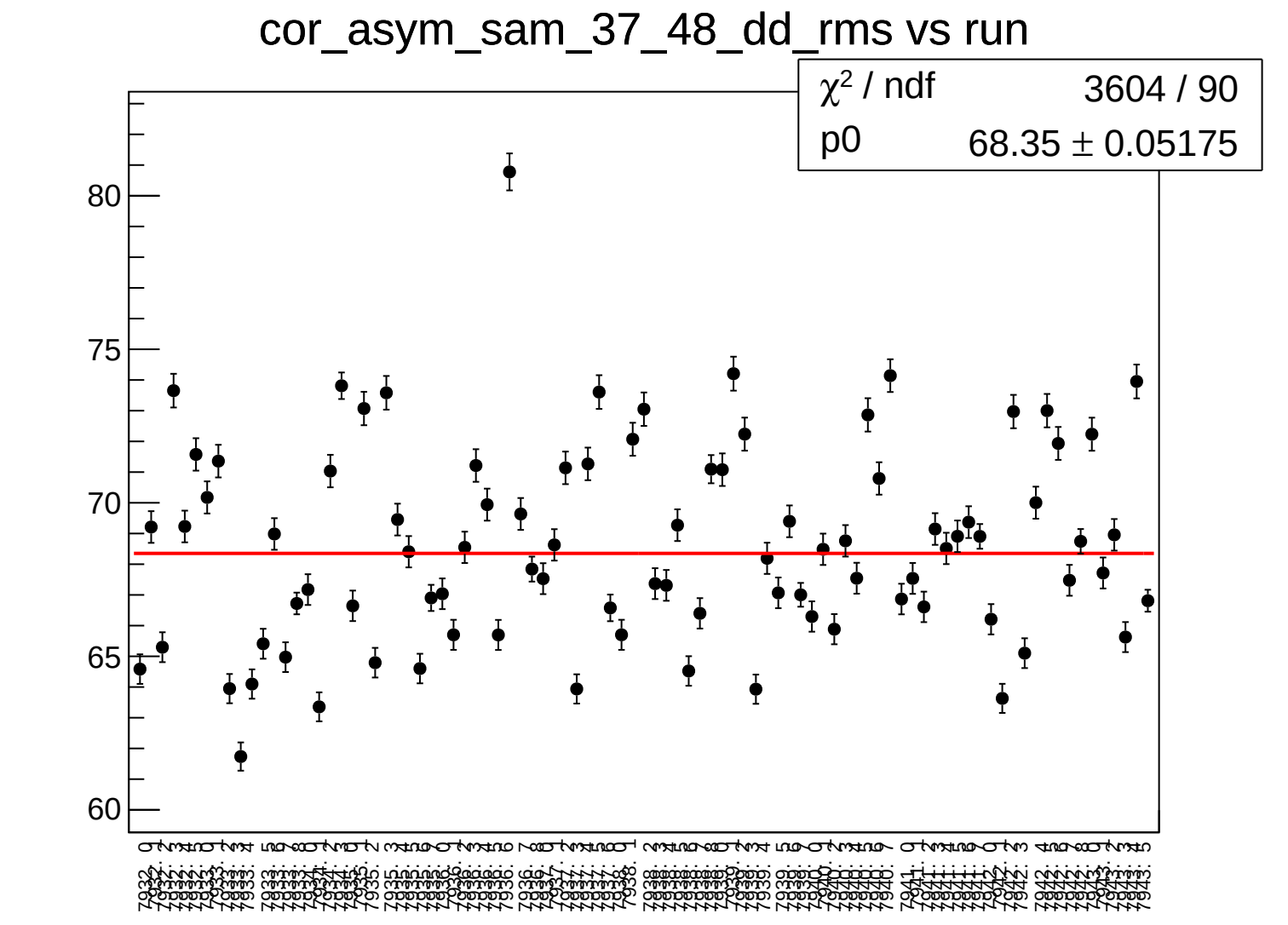

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 82.74 / 90
p0 267.7 ± 436.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −9393
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

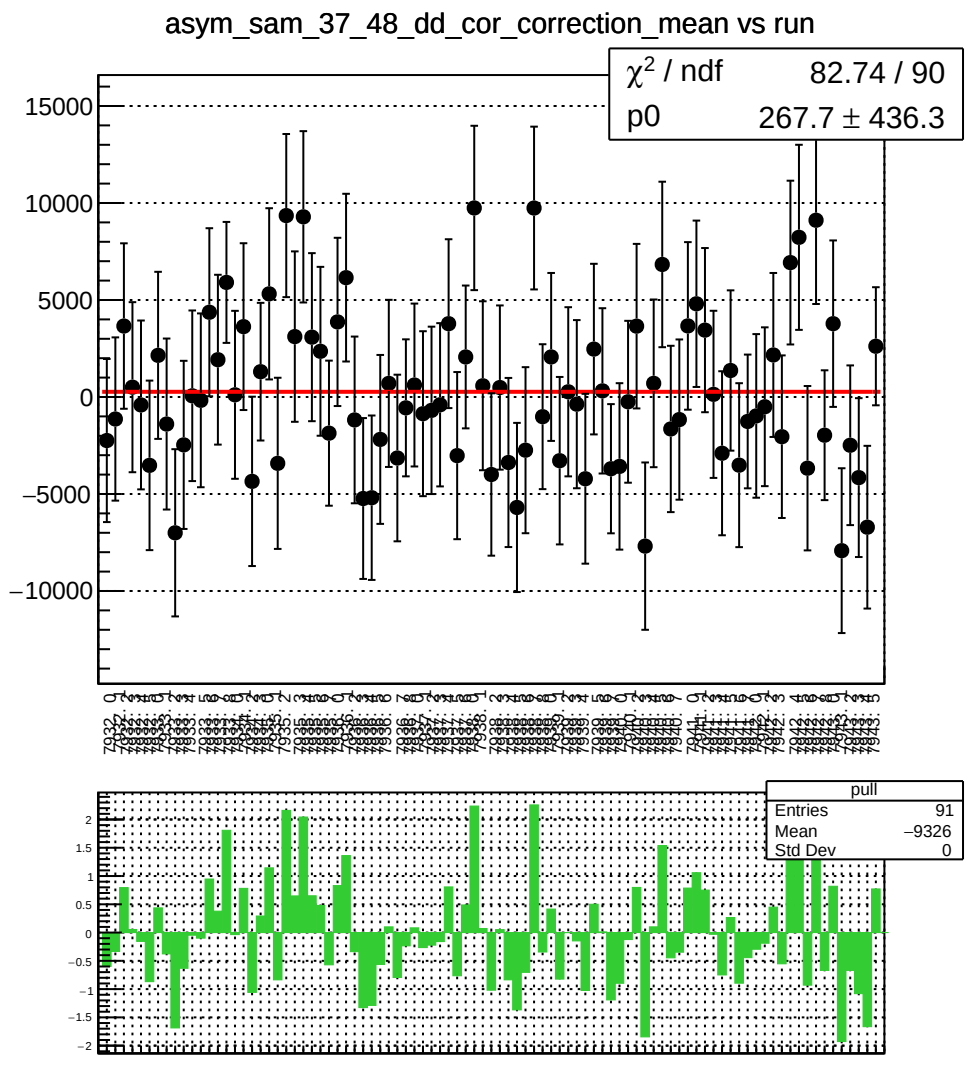

pull1D
Entries 91
Mean 0.0001878
Std Dev 0.9535
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

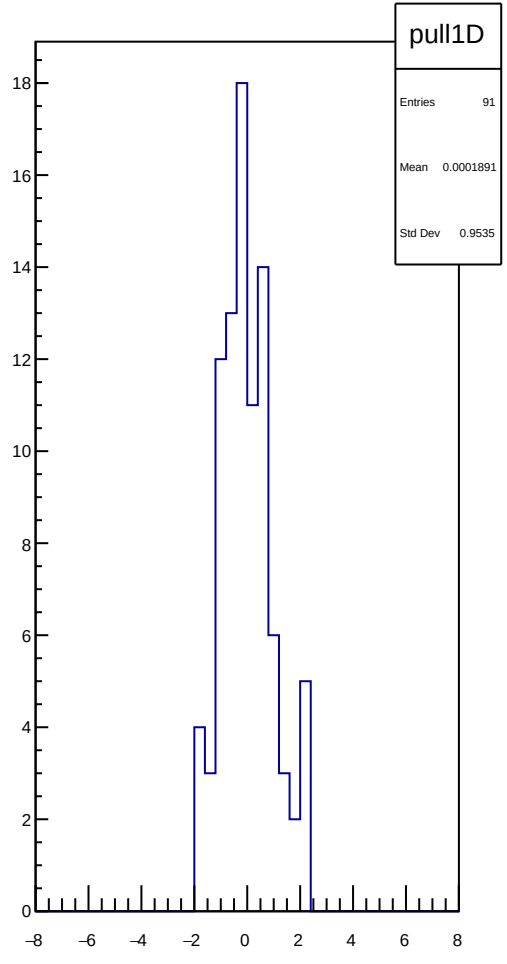

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 836.9 / 90
p0 407.8 ± 0.3085
460
450
440
430
420
410
400
390
380

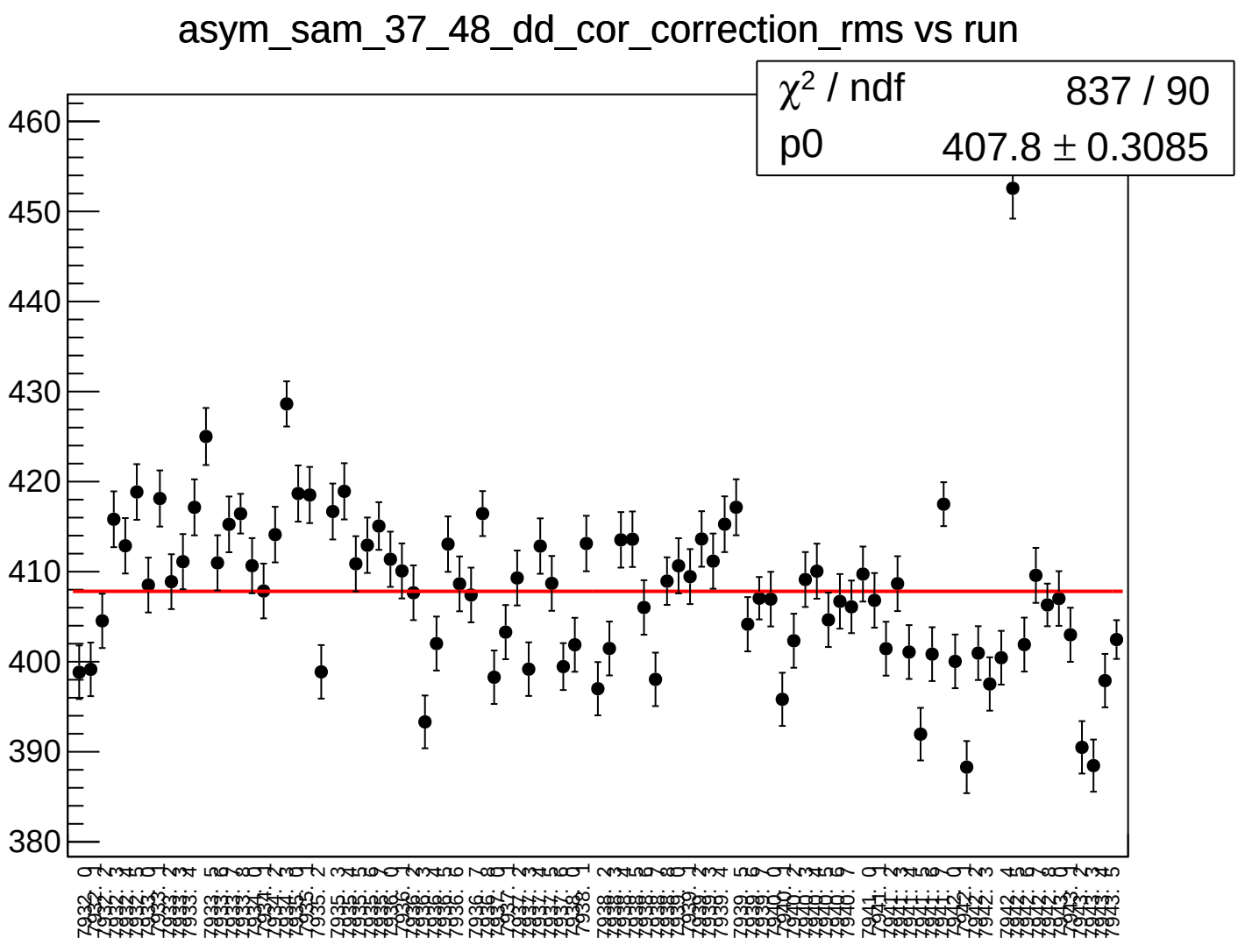

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 82.73 / 90
p0 168.8 ± 73.18
pull
Entries 91
Mean 122.6
Std Dev 0

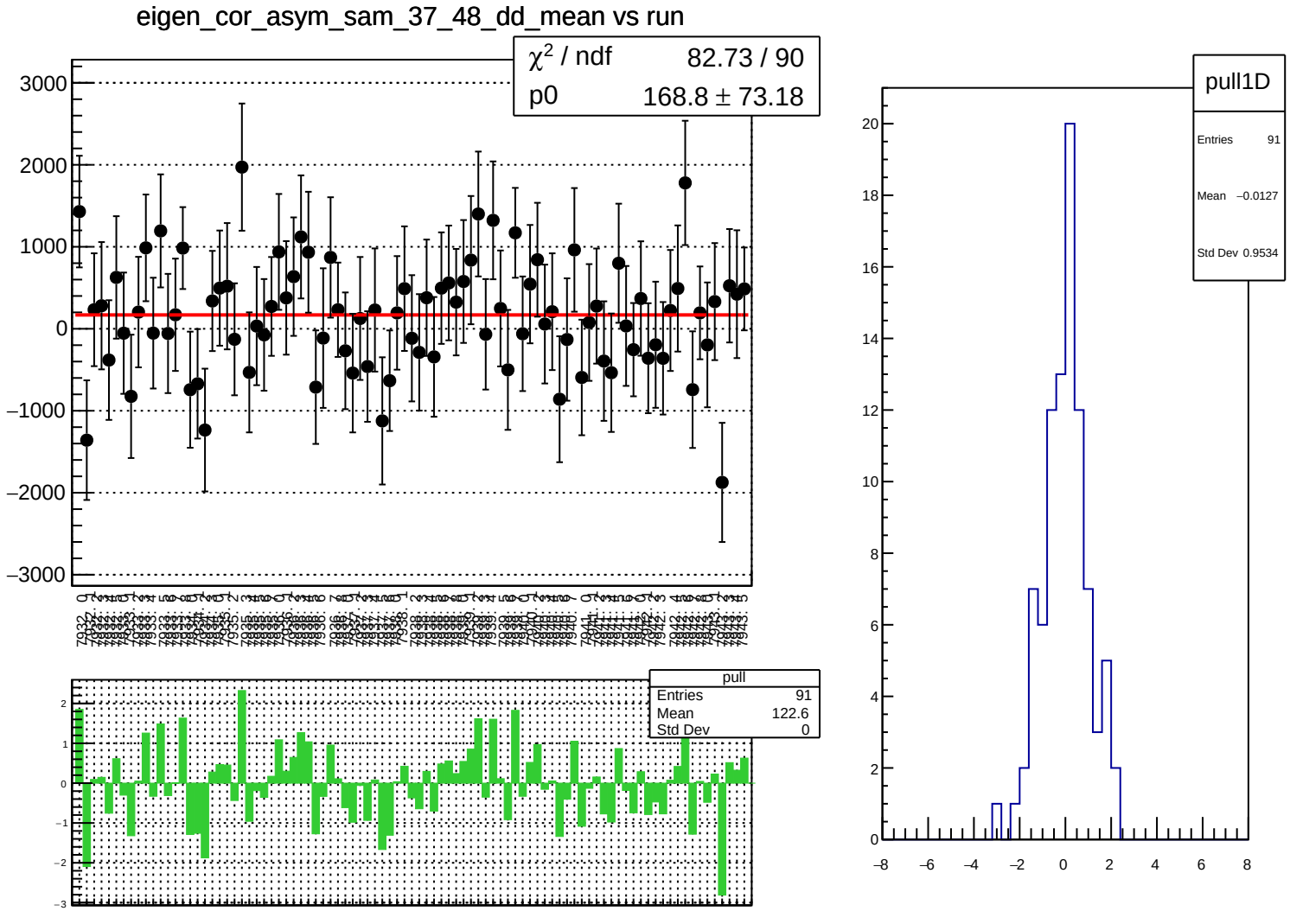

pull1D
Entries 91
Mean −0.0127
Std Dev 0.9534

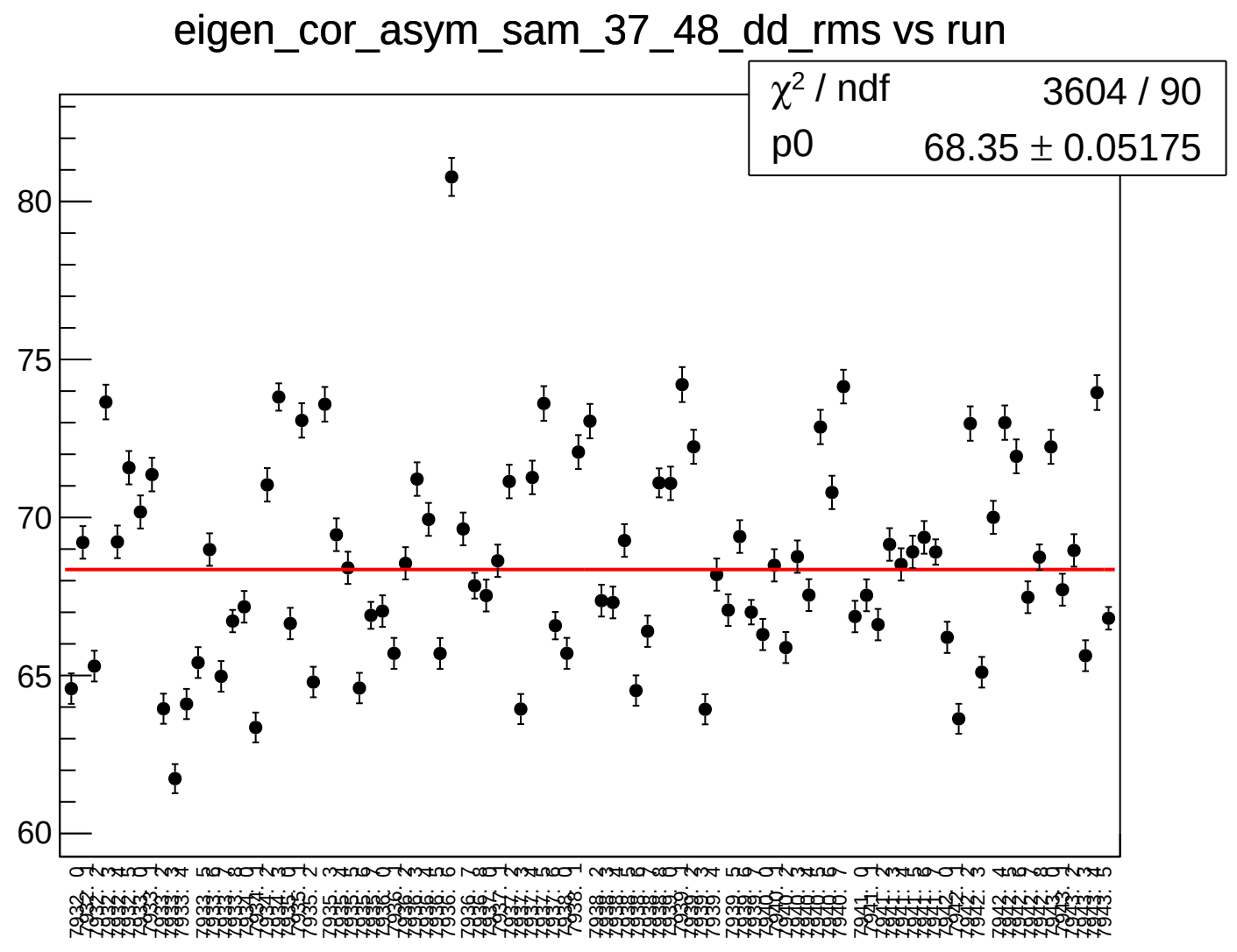

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3604 / 90
p0 68.35 ± 0.05175
80
75
70
65
60

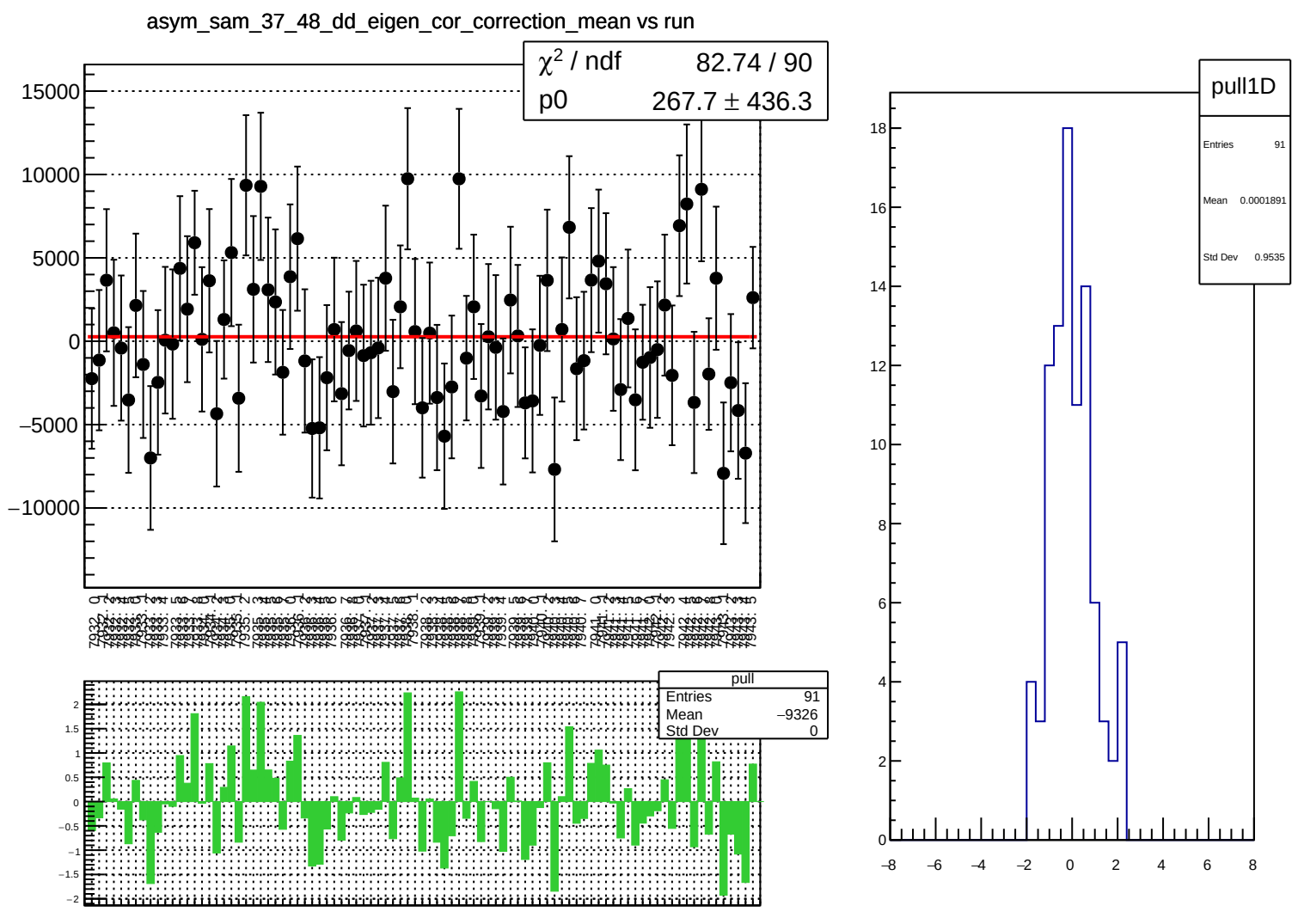

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 82.74 / 90
p0 267.7 ± 436.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −9326
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

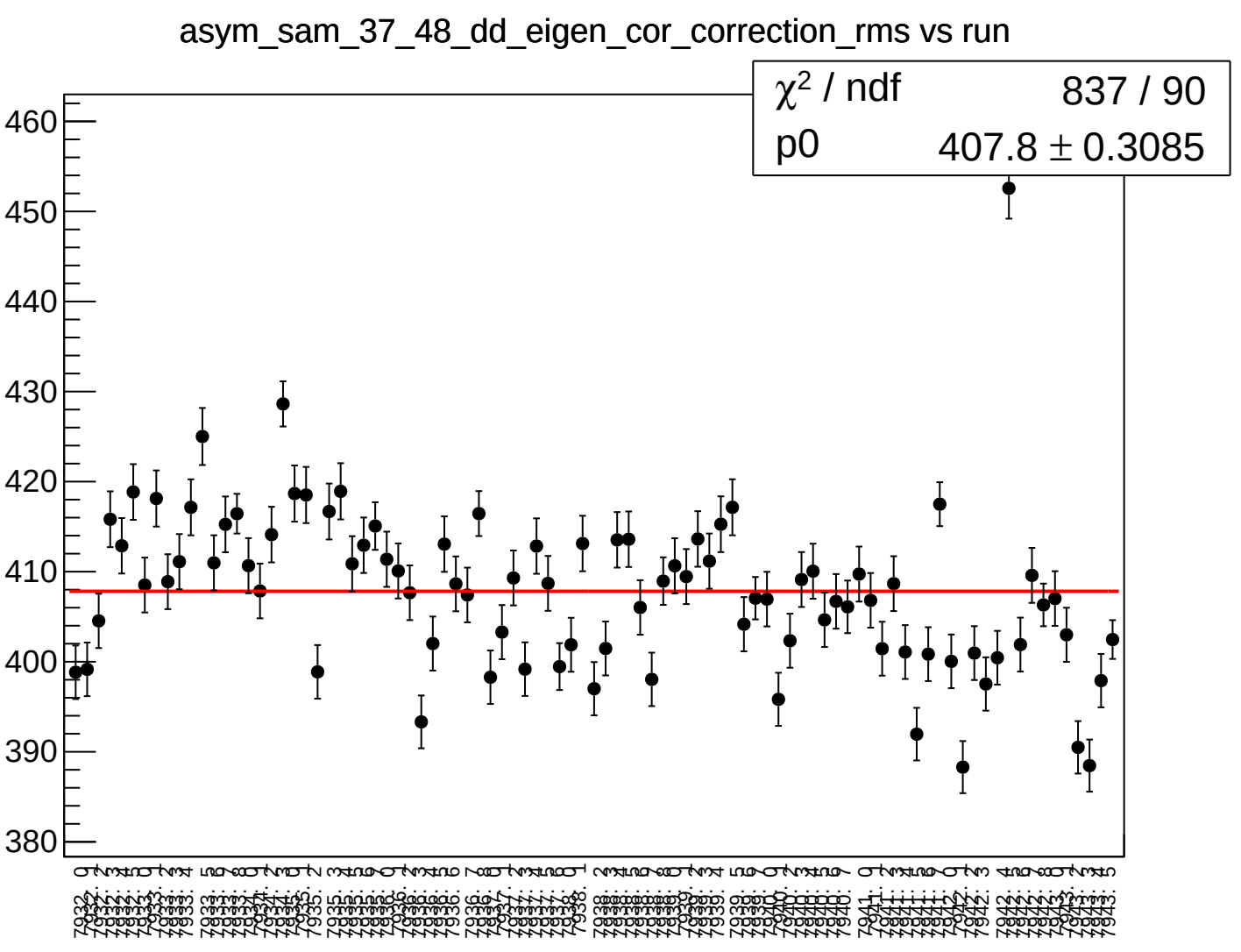

pull1D
Entries 91
Mean 0.0001891
Std Dev 0.9535
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

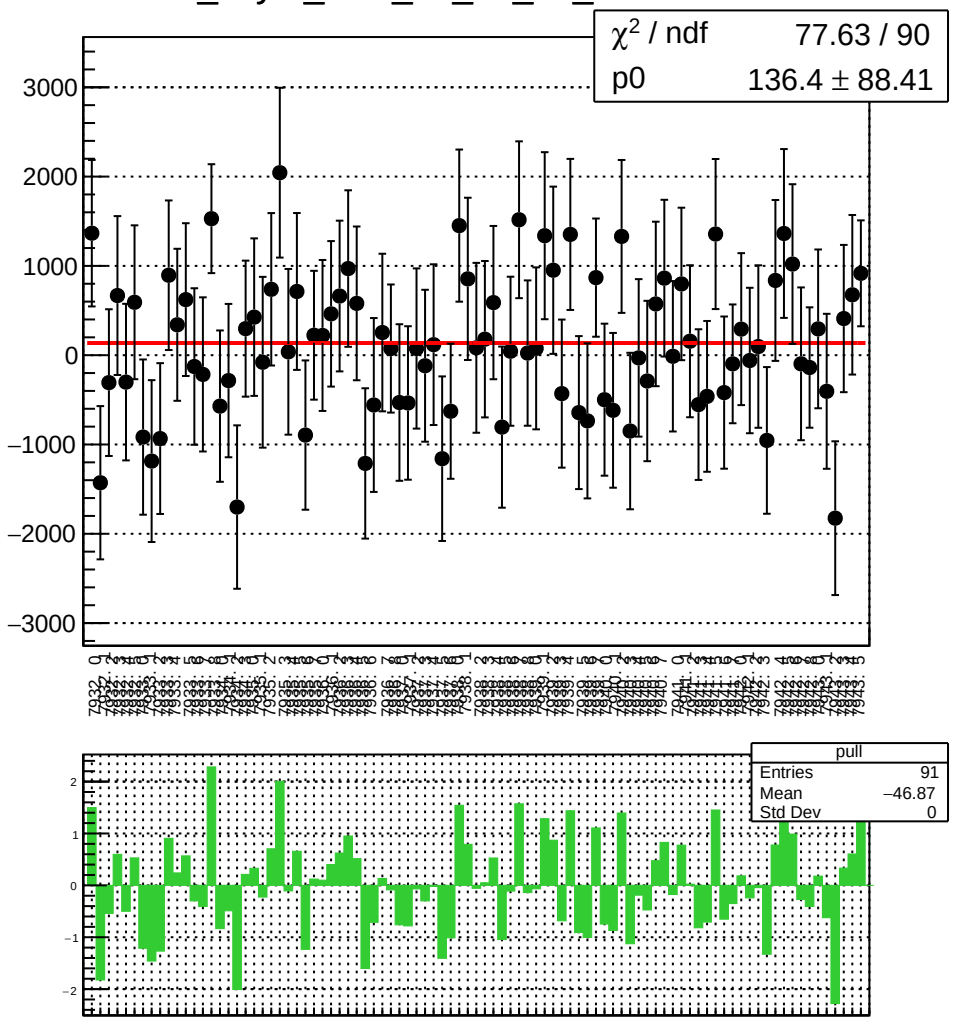

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 837 / 90
p0 407.8 ± 0.3085
460
450
440
430
420
410
400
390
380

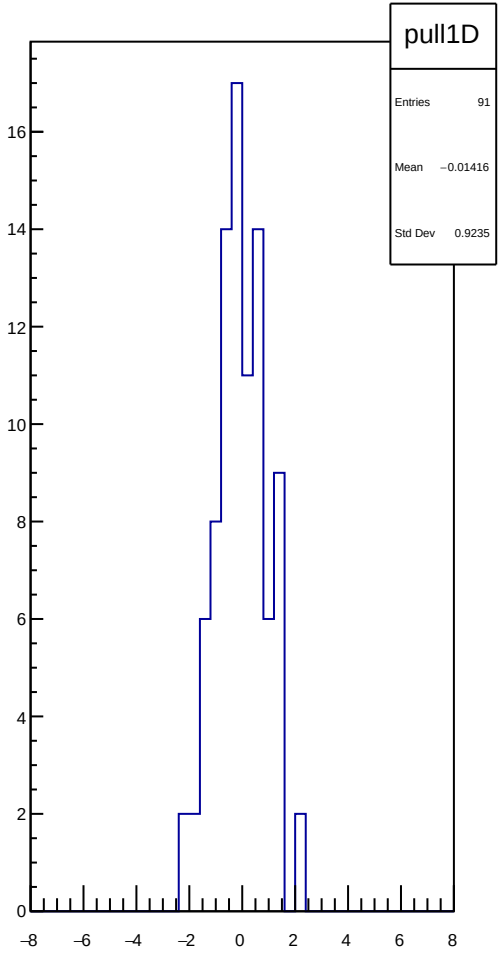

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 82.73 / 90
p0 168.8 ± 73.18
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 122.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.0127
Std Dev 0.9534
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

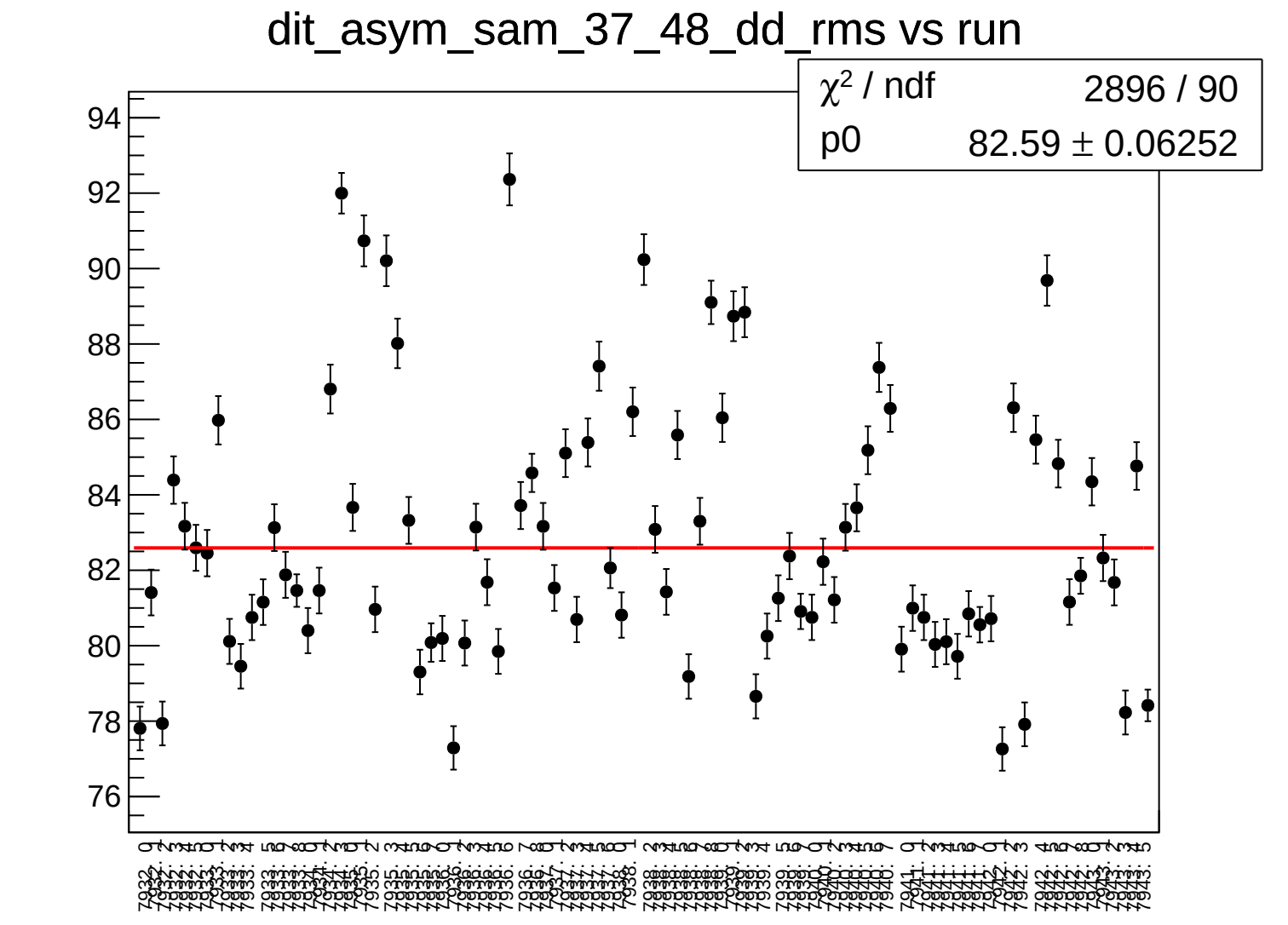

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3604 / 90
p0 68.35 ± 0.05175
80
75
70
65
60

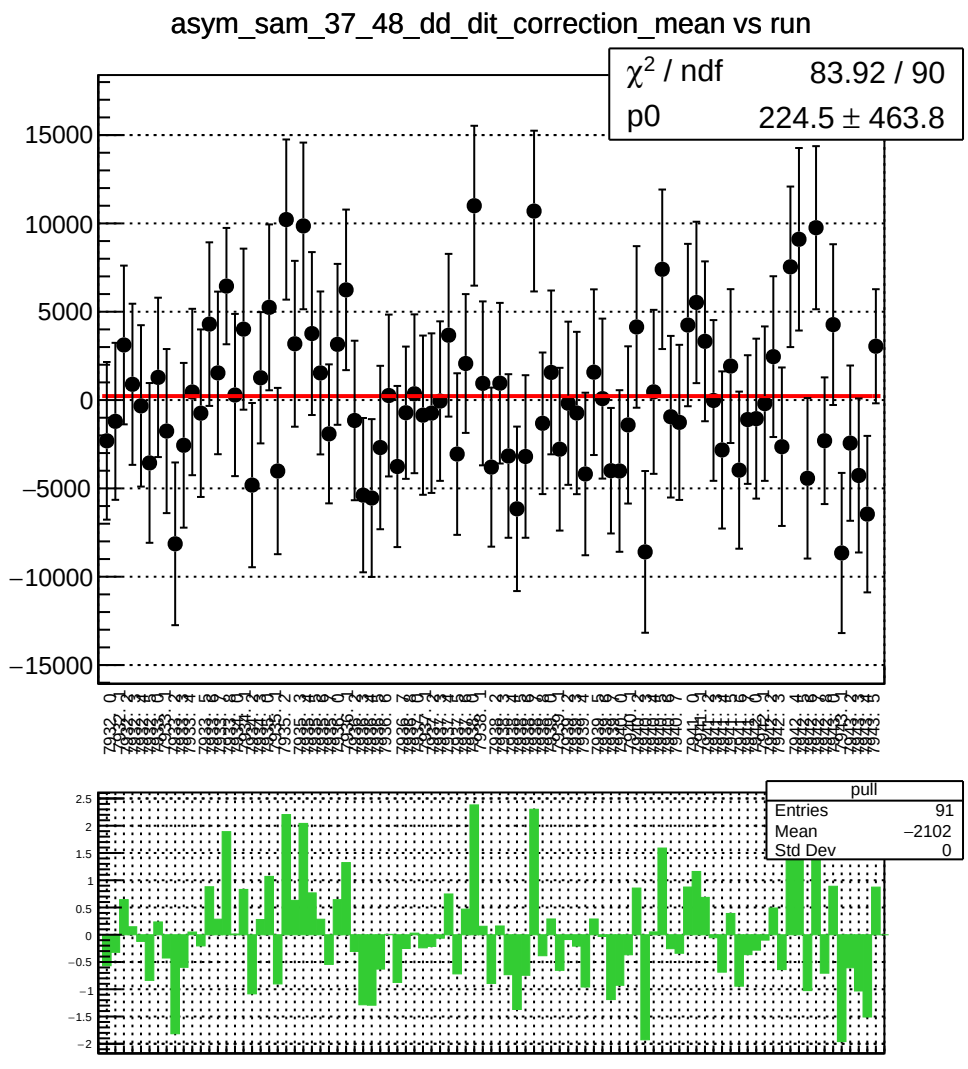

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.74 / 90
p0 267.7 ± 436.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −9326
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.0001891
Std Dev 0.9535
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

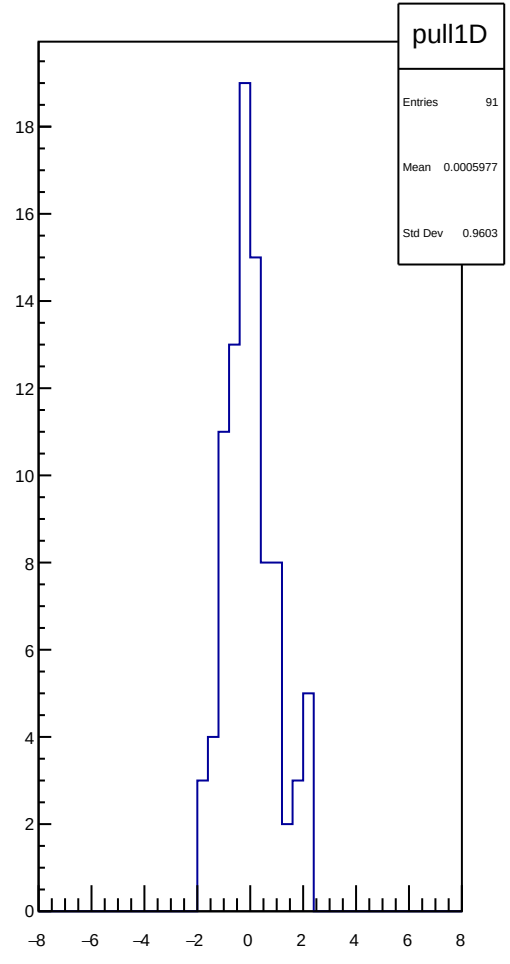

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 837 / 90
p0 407.8 ± 0.3085
460
450
440
430
420
410
400
390
380

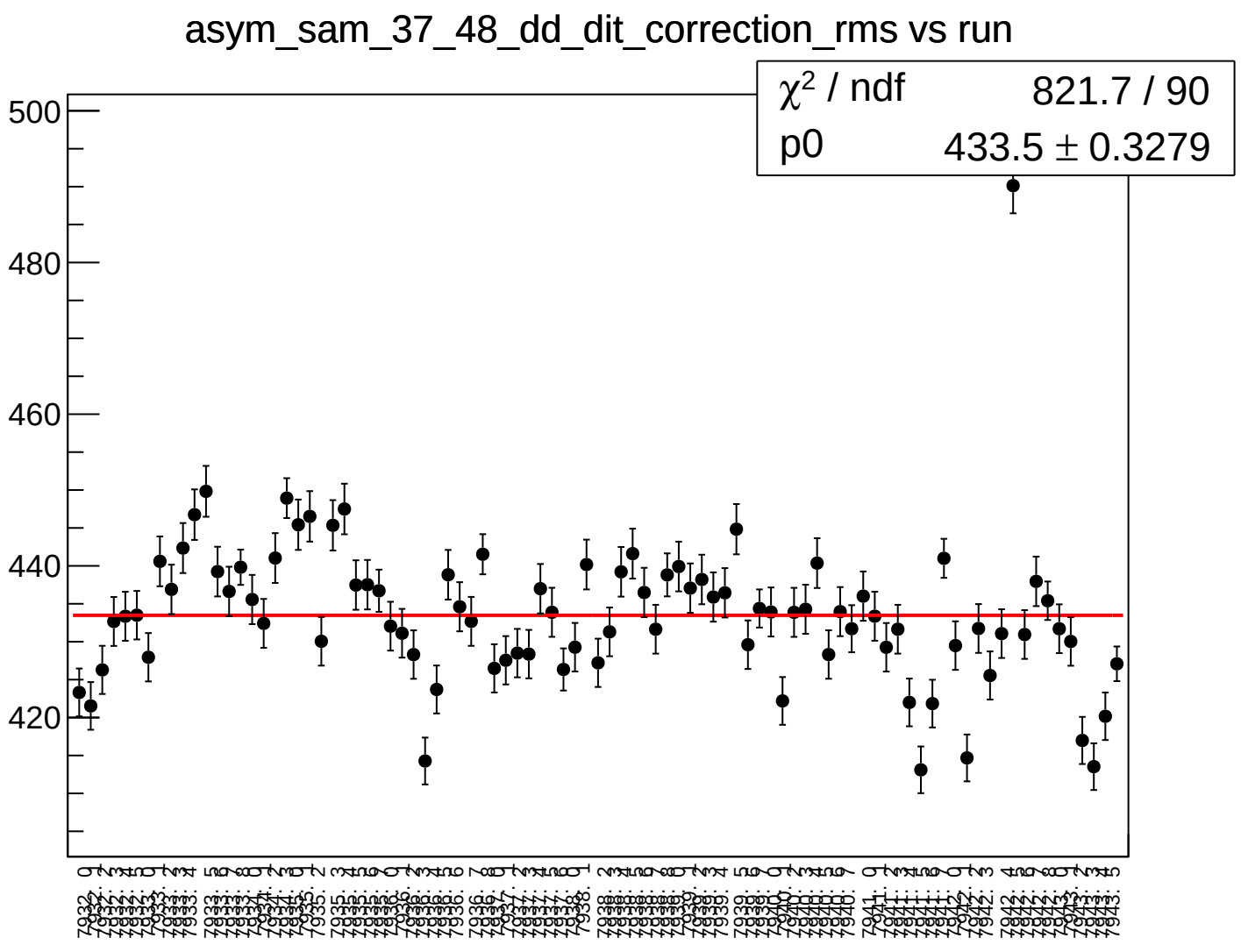

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.63 / 90
p0 136.4 ± 88.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −46.87
Std Dev 0
2
1
0
−1
−2

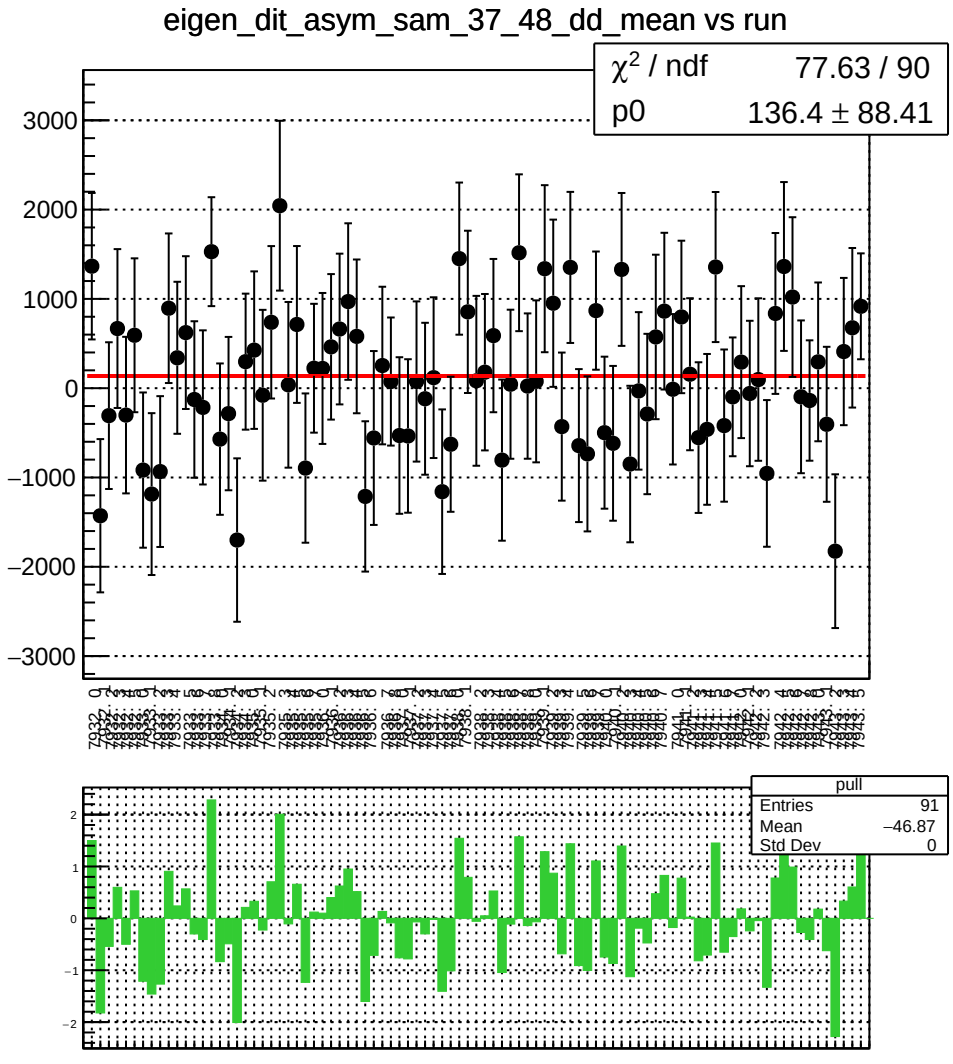

pull1D
Entries 91
Mean −0.01416
Std Dev 0.9235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

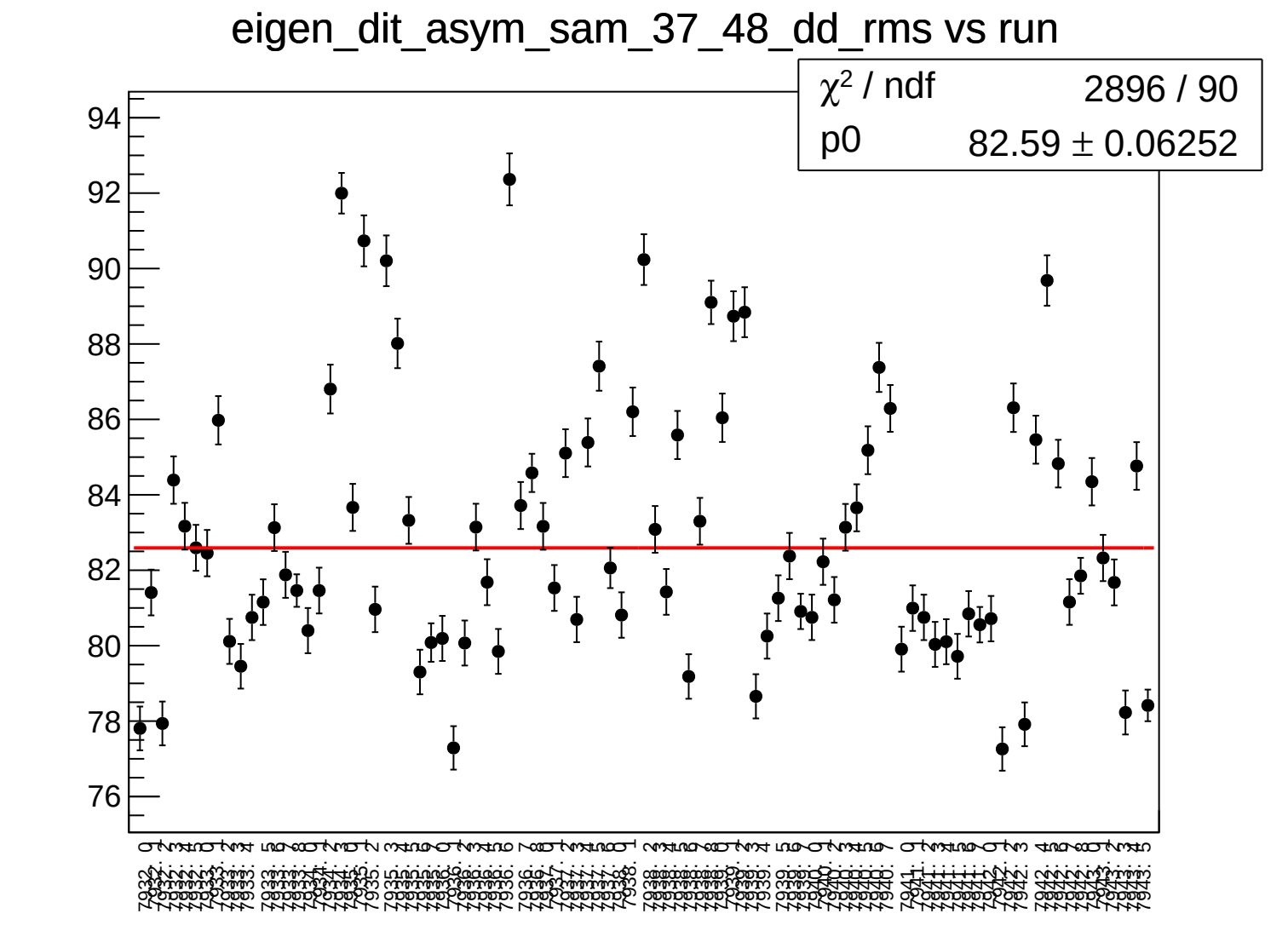

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2896 / 90
p0 82.59 ± 0.06252
94
92
90
88
86
84
82
80
78
76

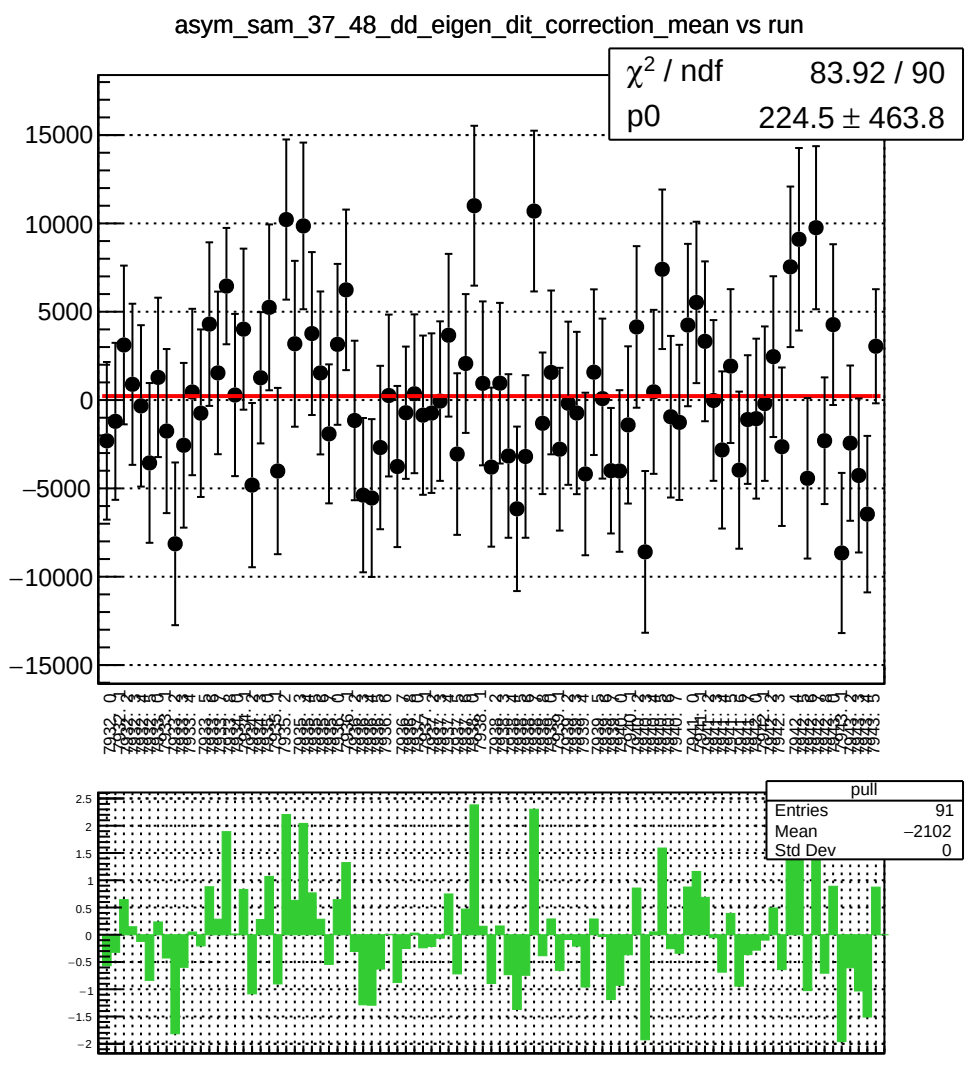

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 83.92 / 90
p0 224.5 ± 463.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −2102
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

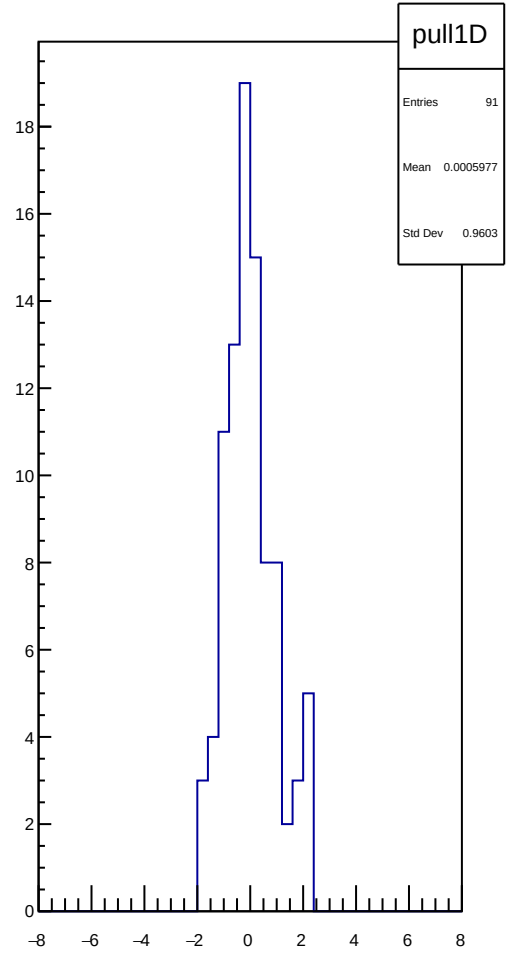

pull1D
Entries 91
Mean 0.0005977
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

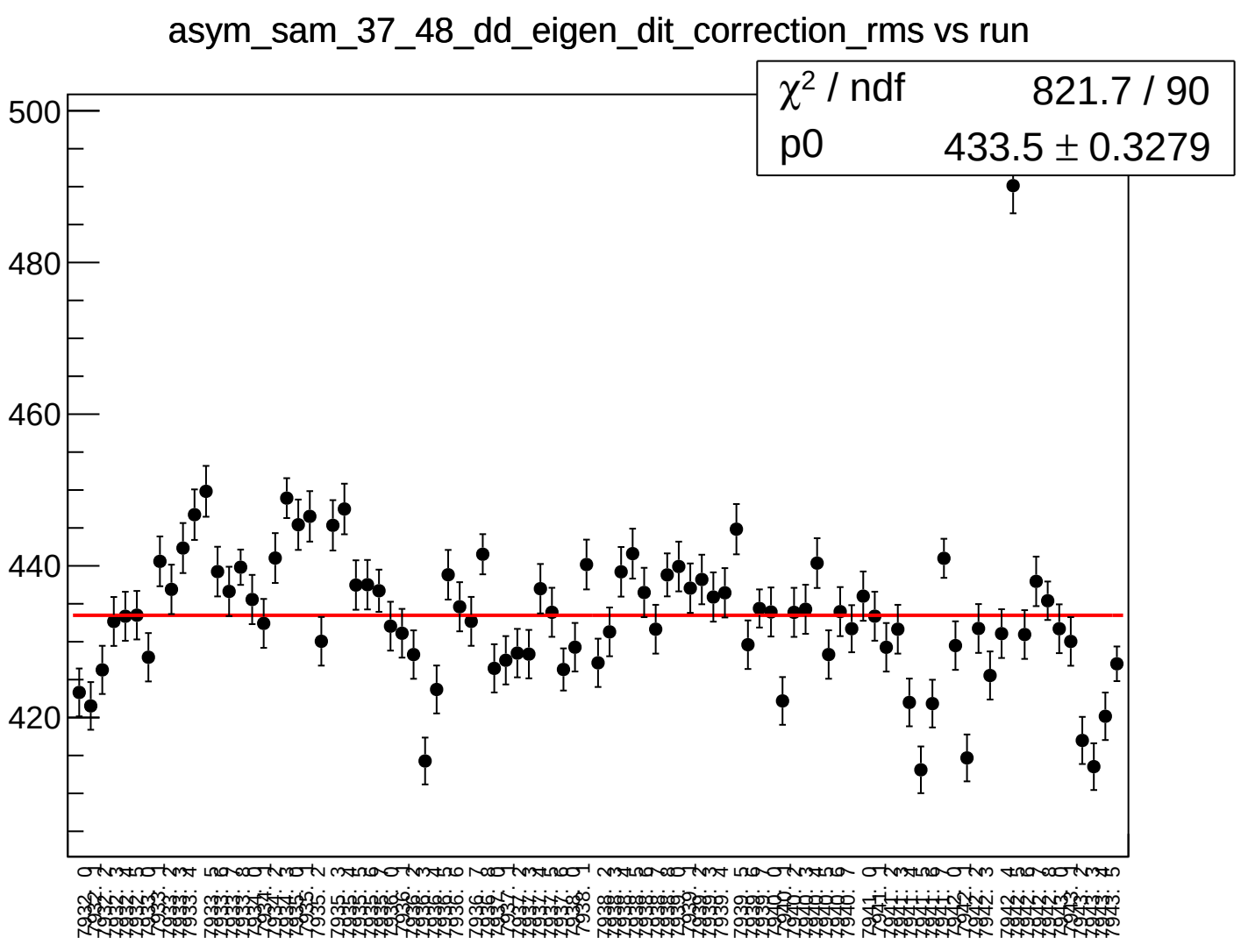

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 821.7 / 90
p0 433.5 ± 0.3279
500
480
460
440
420

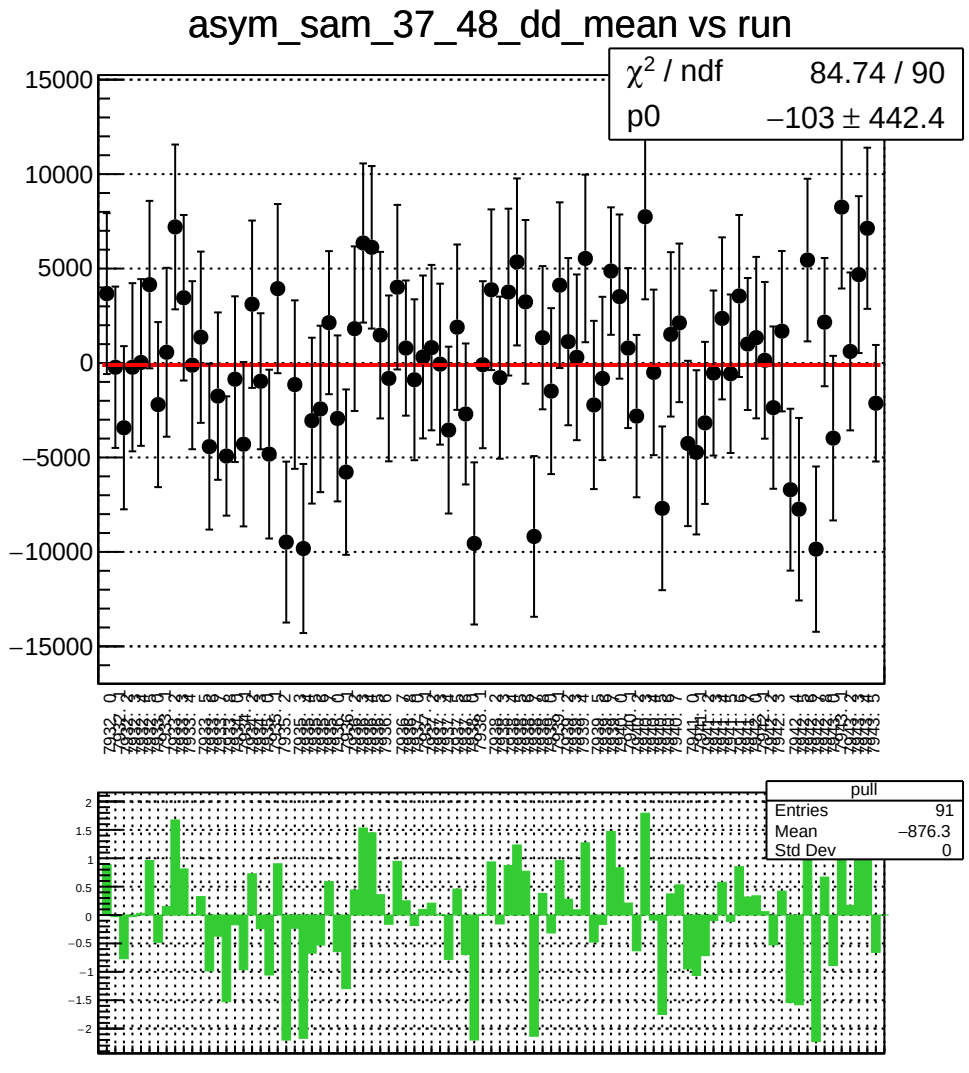

eigen_dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 77.63 / 90
p0 136.4 ± 88.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −46.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01416
Std Dev 0.9235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

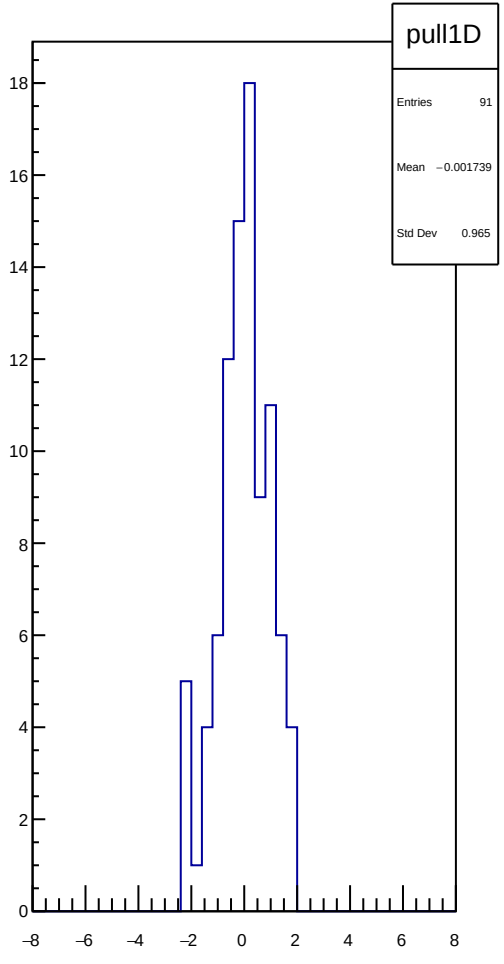

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2896 / 90
p0 82.59 ± 0.06252
94
92
90
88
86
84
82
80
78
76

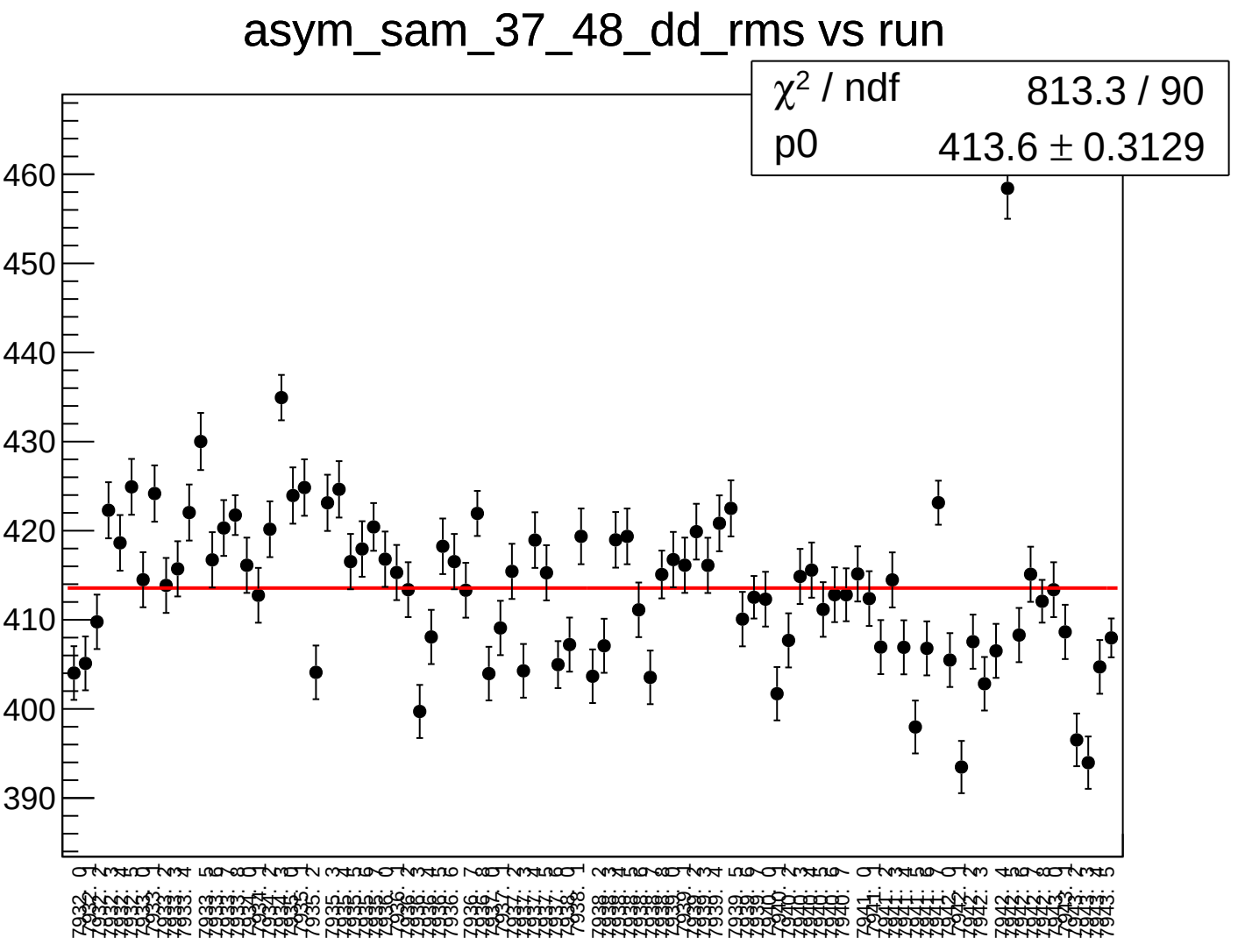

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.92 / 90
p0 224.5 ± 463.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −2102
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

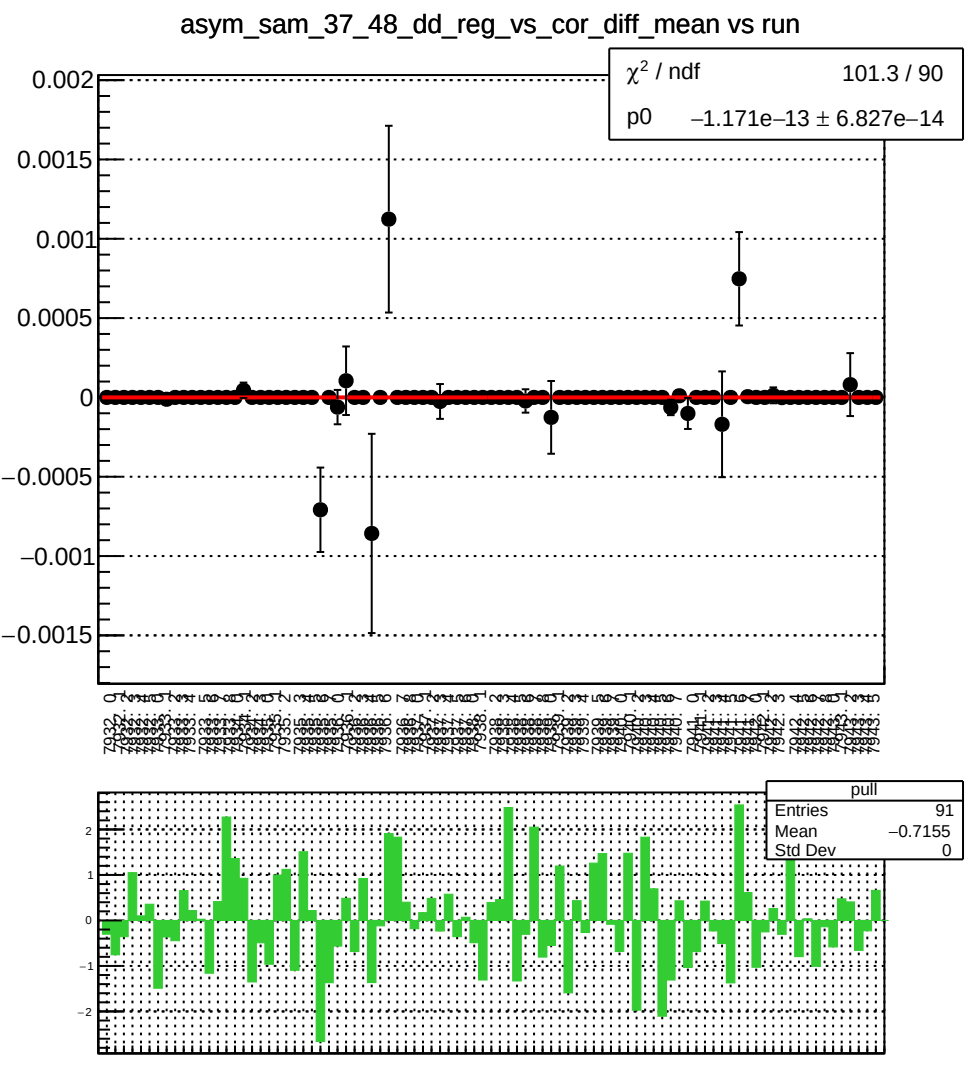

pull1D
Entries 91
Mean 0.0005977
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

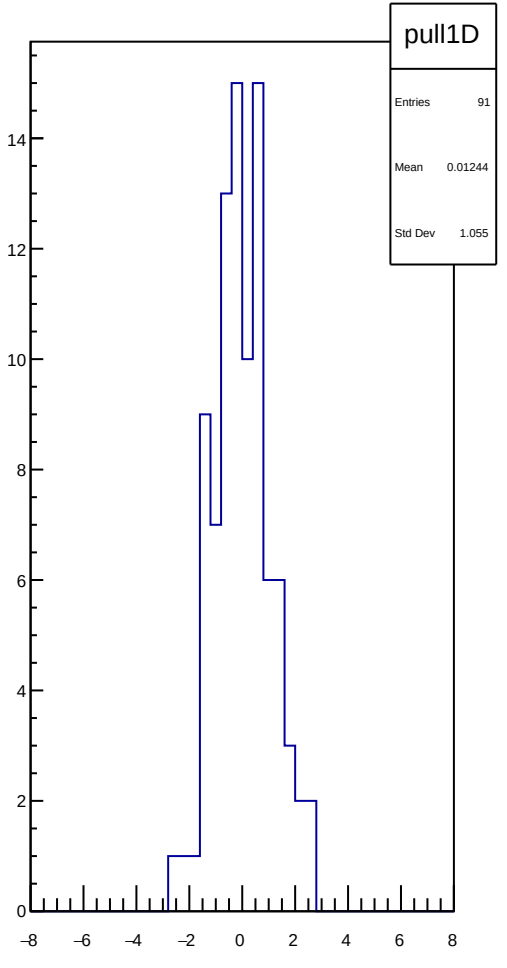

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 821.7 / 90
p0 433.5 ± 0.3279
500
480
460
440
420

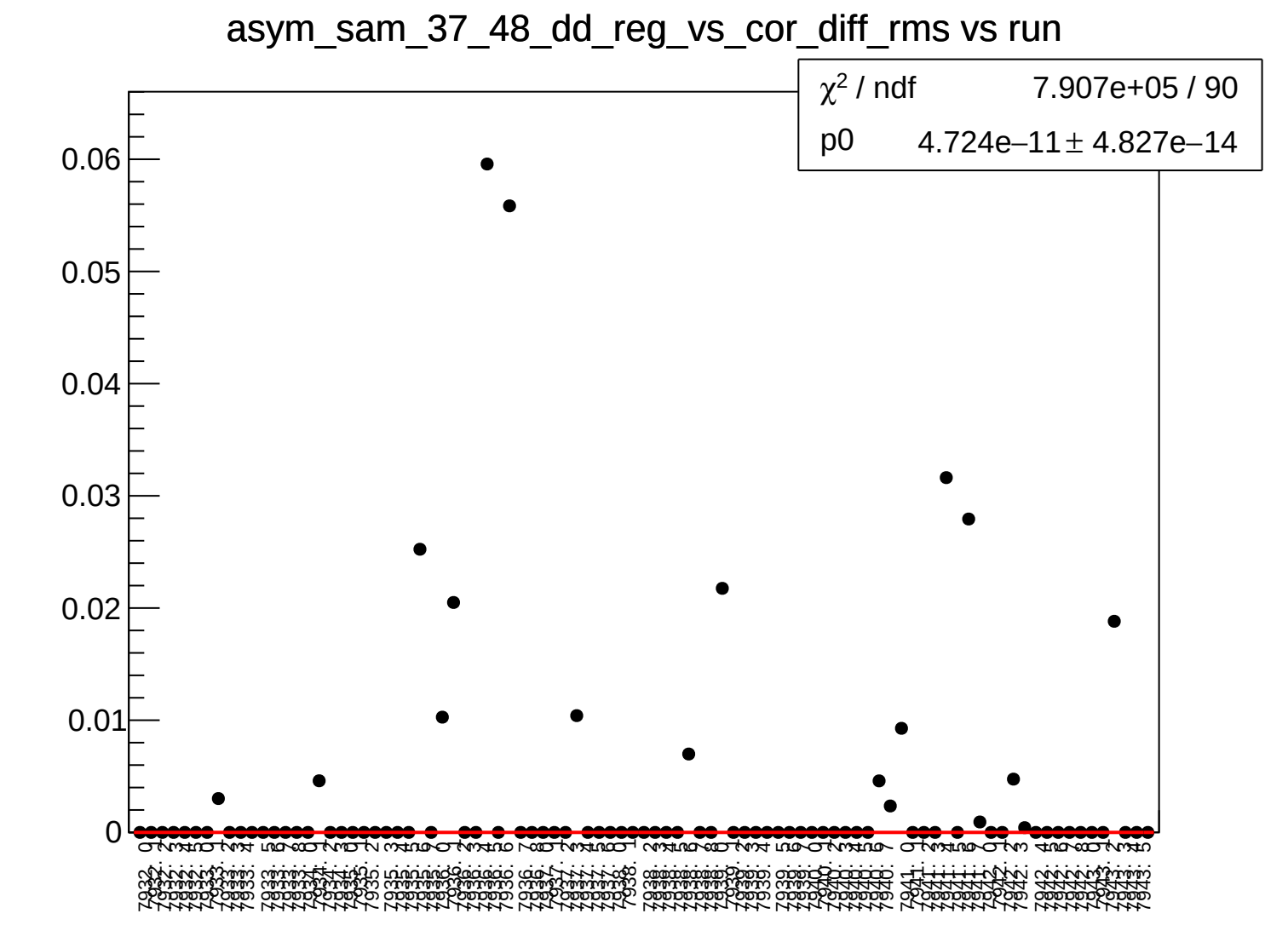

asym_sam_37_48_dd_mean vs run
χ² / ndf 84.74 / 90
p0 −103 ± 442.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −876.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

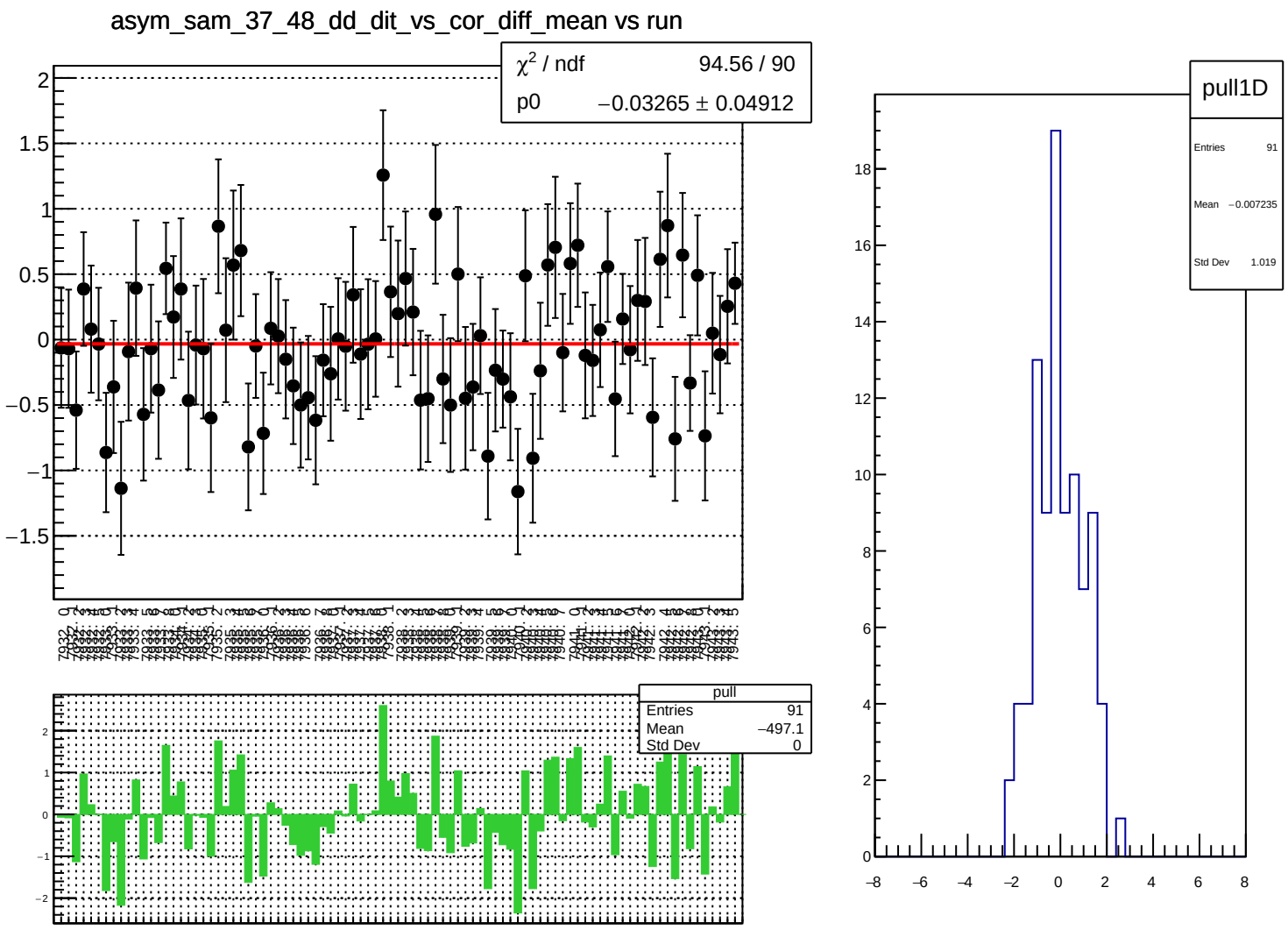

pull1D
Entries 91
Mean −0.001739
Std Dev 0.965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

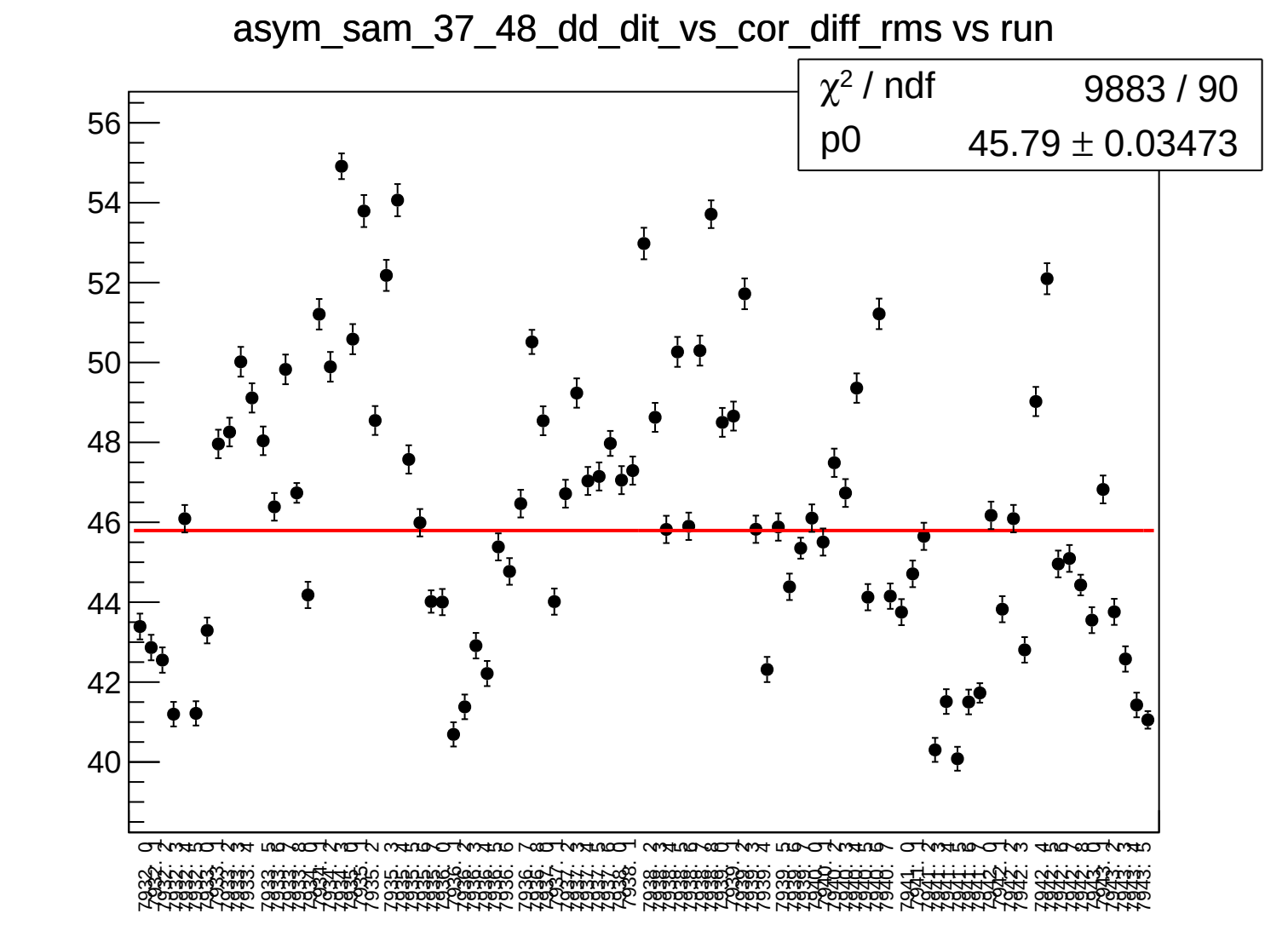

asym_sam_37_48_dd_rms vs run
χ² / ndf 813.3 / 90
p0 413.6 ± 0.3129
460
450
440
430
420
410
400
390

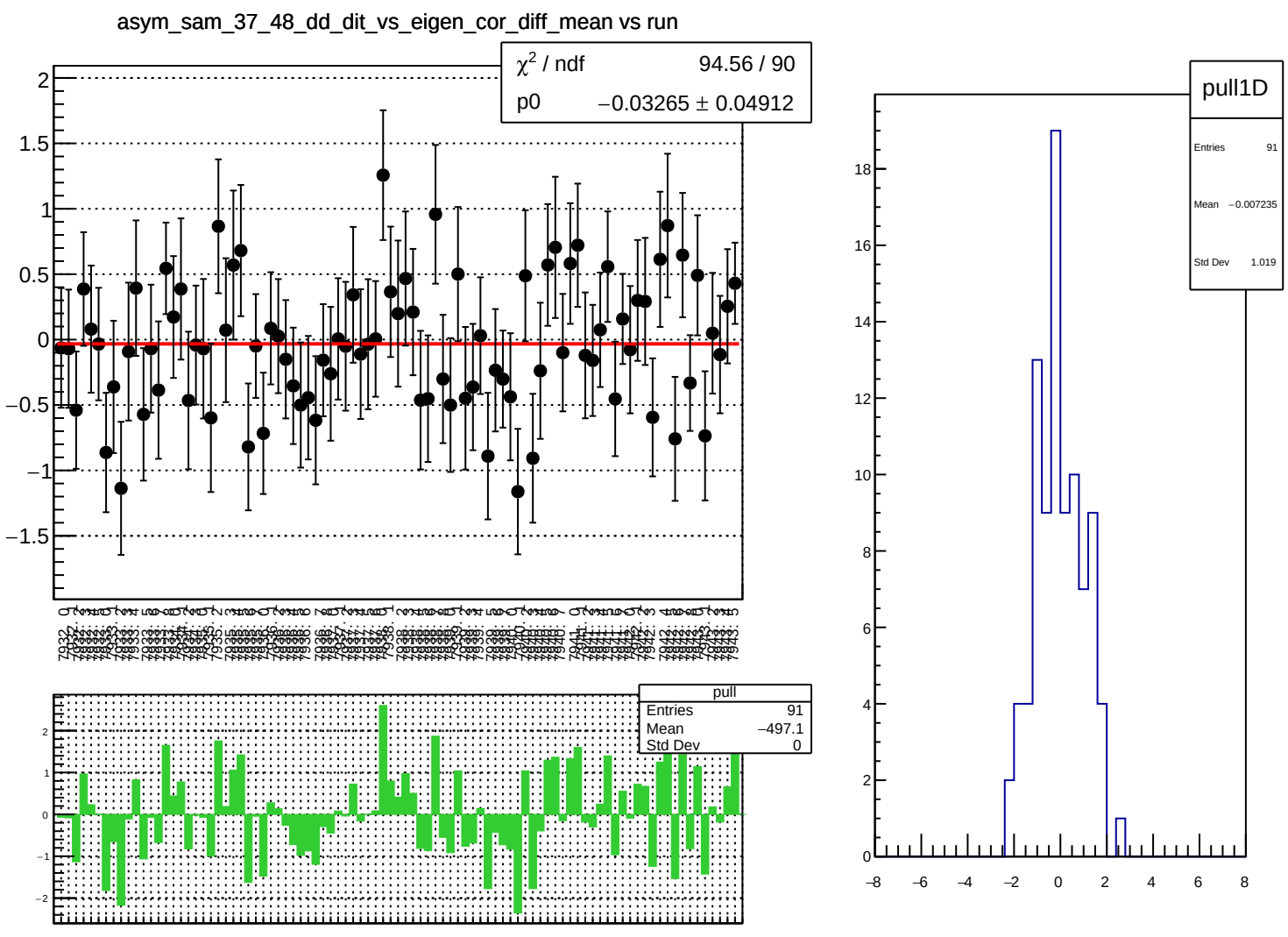

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 −1.171e−13 ± 6.827e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean −0.7155
Std Dev 0
2
1
0
−1
−2

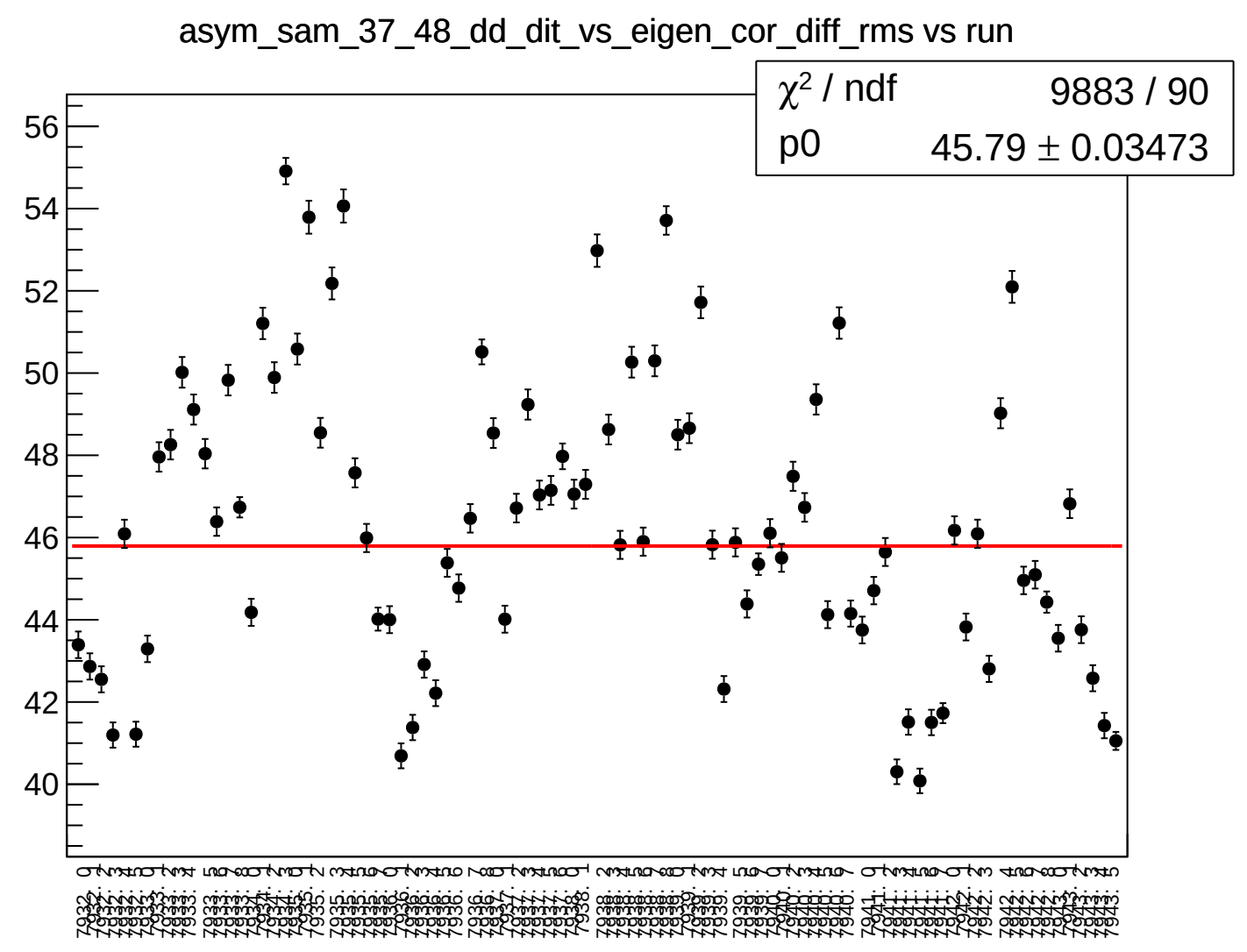

pull1D
Entries 91
Mean 0.01244
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

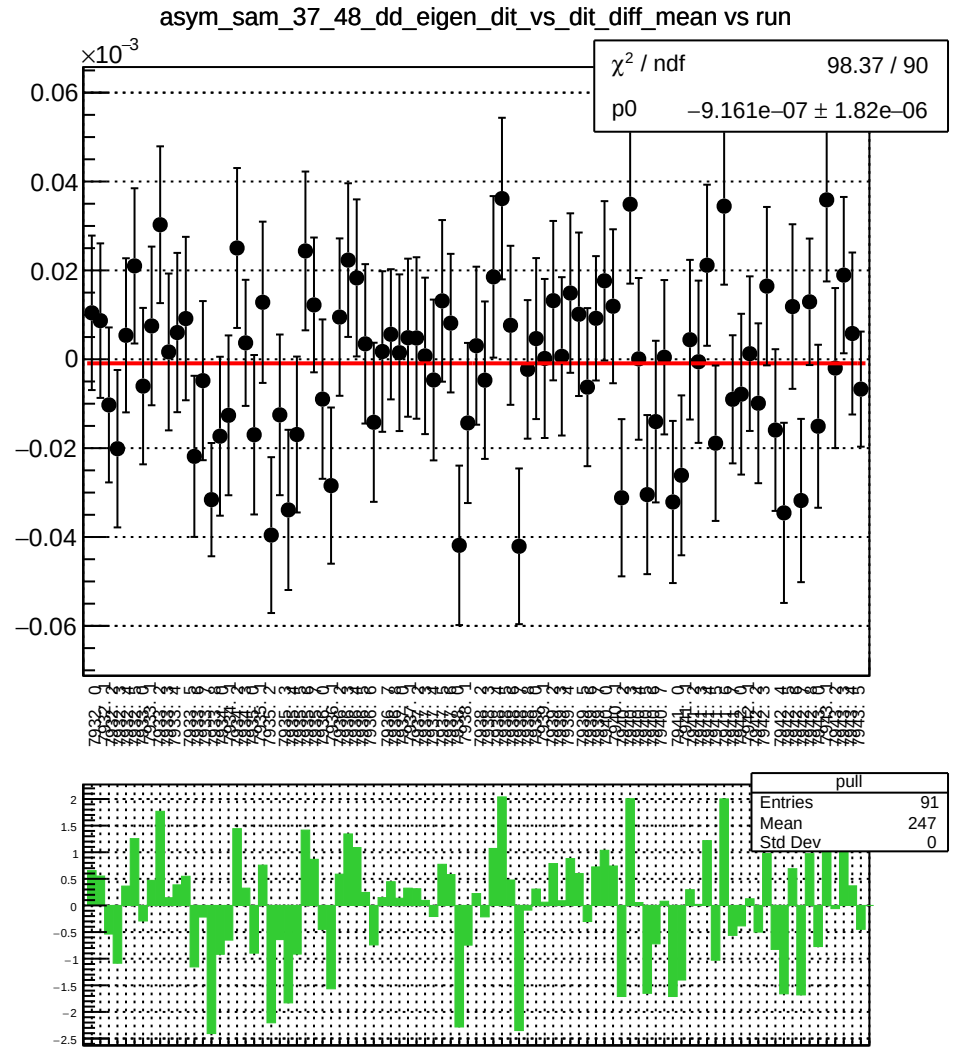

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.907e+05 / 90
p0 4.724e−11 ± 4.827e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

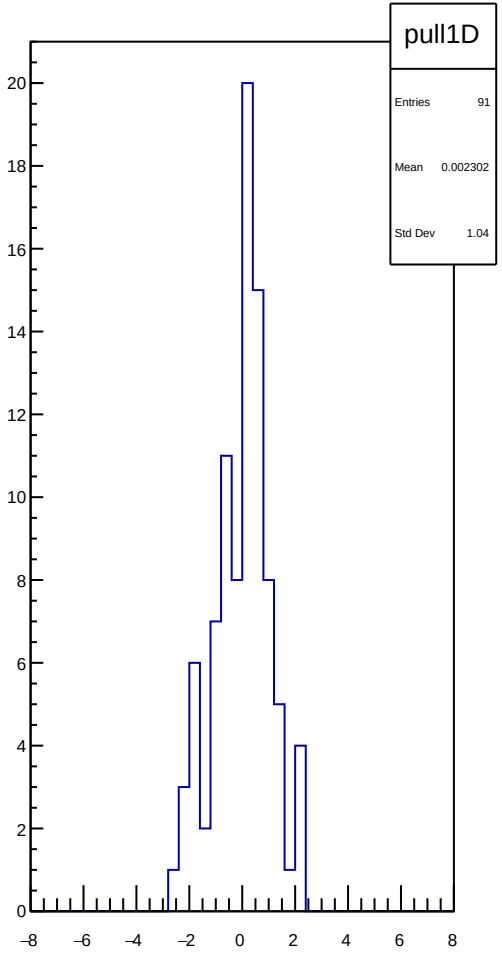

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.56 / 90
p0 −0.03265 ± 0.04912
pull
Entries 91
Mean −497.1
Std Dev 0
pull1D
Entries 91
Mean −0.007235
Std Dev 1.019

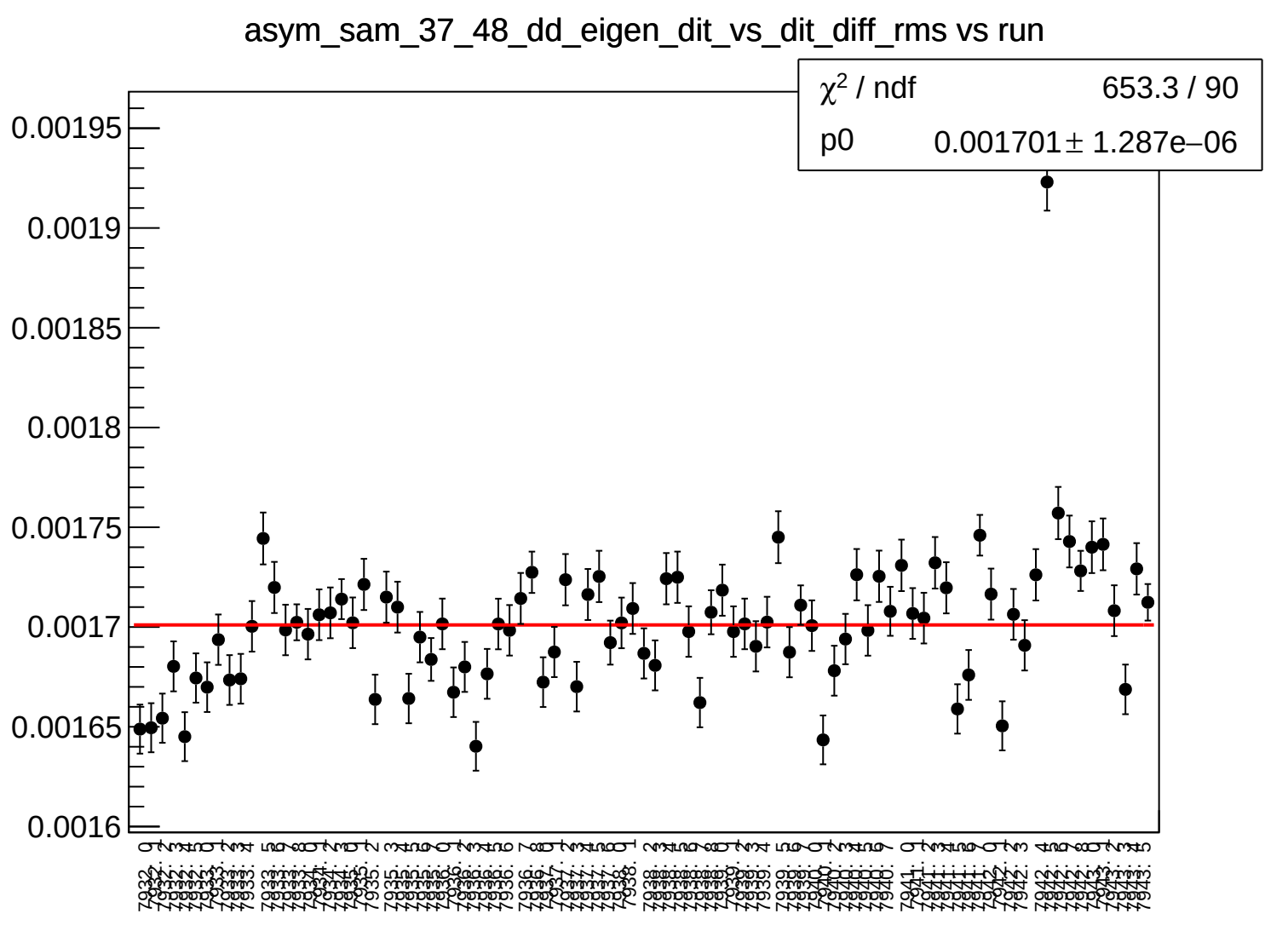

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9883 / 90
p0 45.79 ± 0.03473
56
54
52
50
48
46
44
42
40

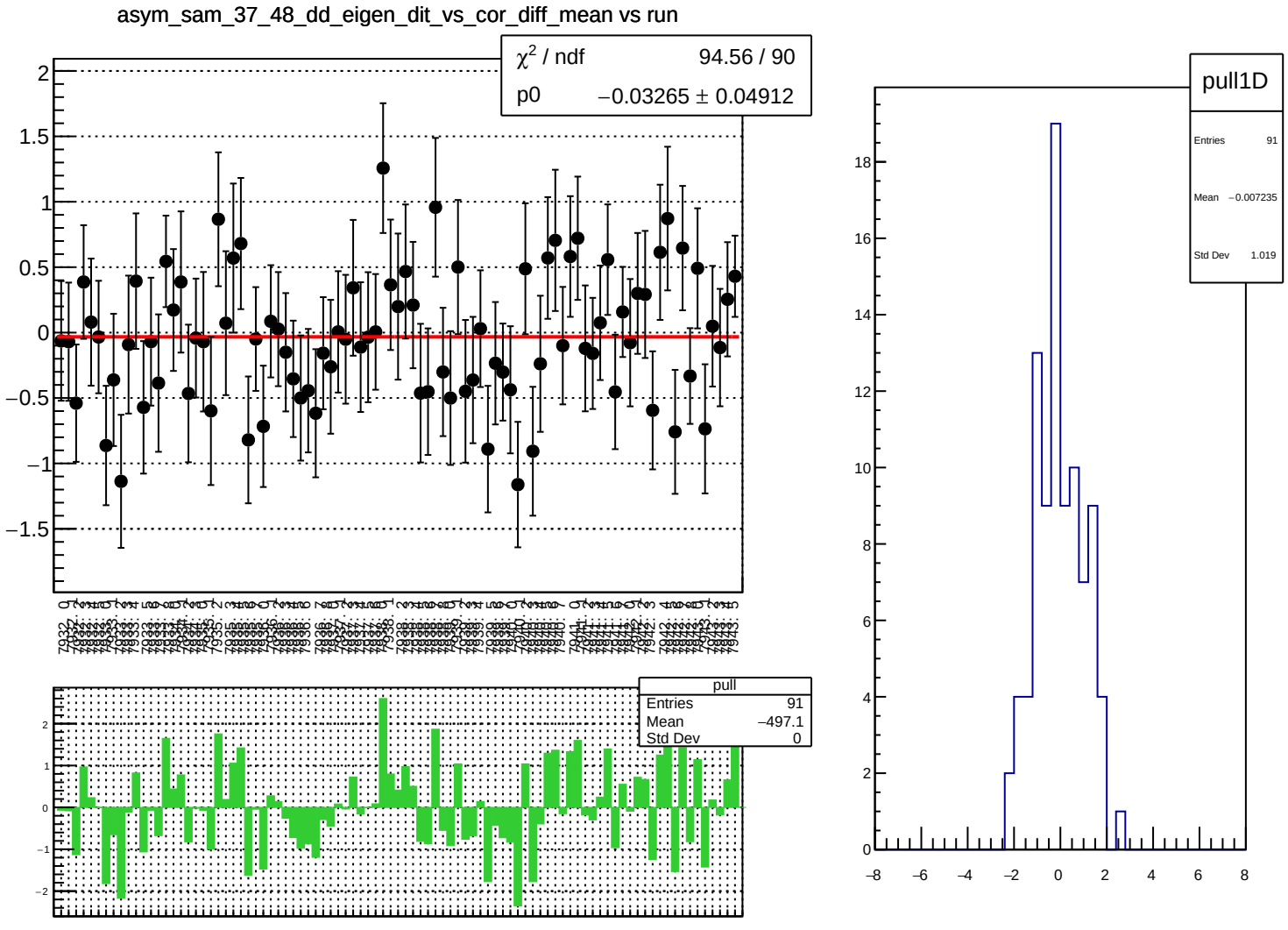

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.56 / 90
p0 −0.03265 ± 0.04912
pull
Entries 91
Mean −497.1
Std Dev 0
pull1D
Entries 91
Mean −0.007235
Std Dev 1.019

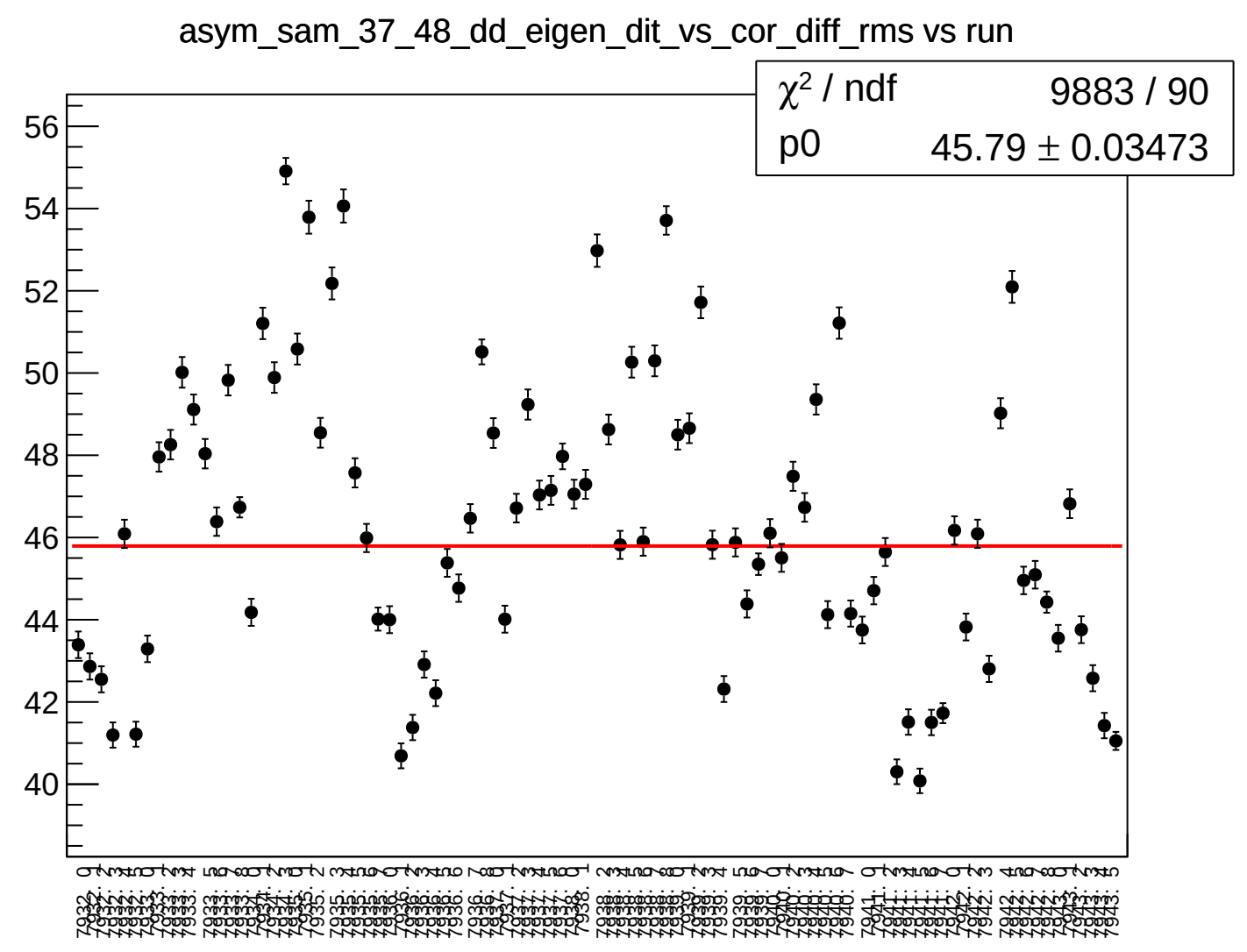

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9883 / 90
p0 45.79 ± 0.03473
56
54
52
50
48
46
44
42
40

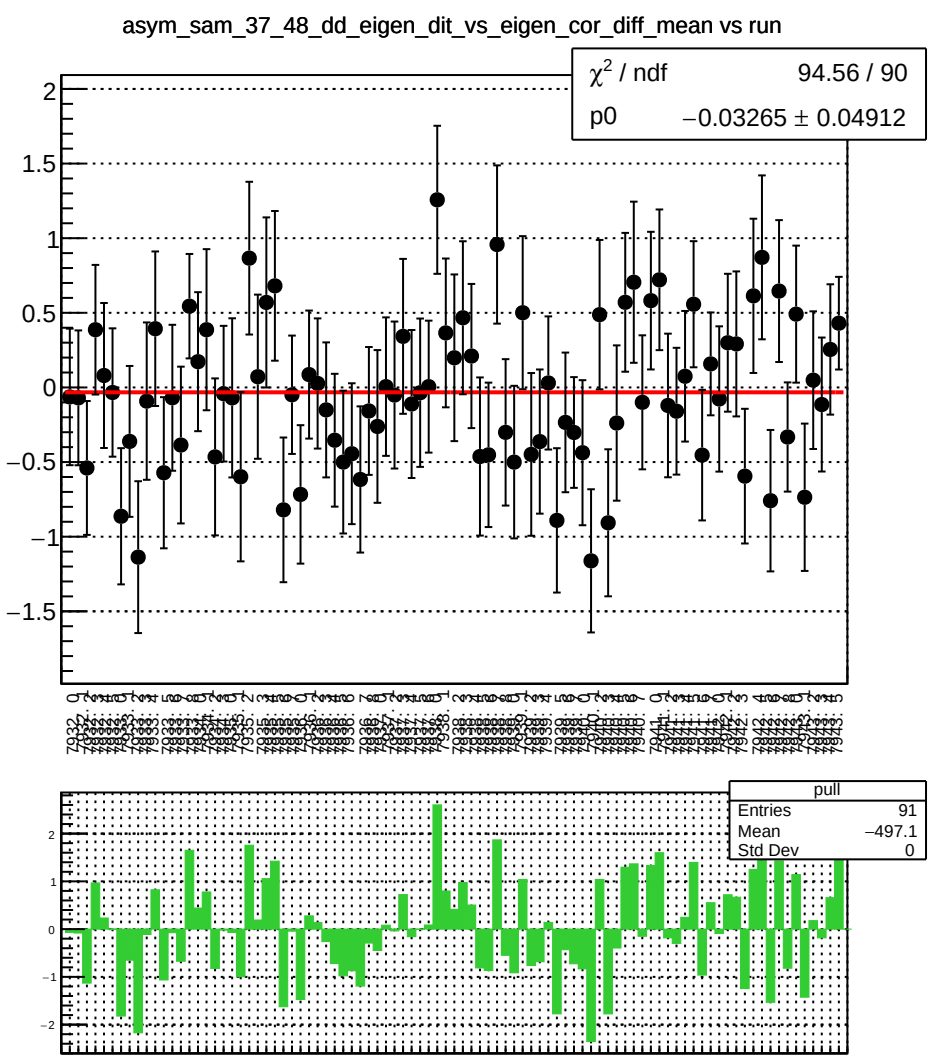

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.37 / 90
p0 −9.161e−07 ± 1.82e−06
pull
Entries 91
Mean 247
Std Dev 0

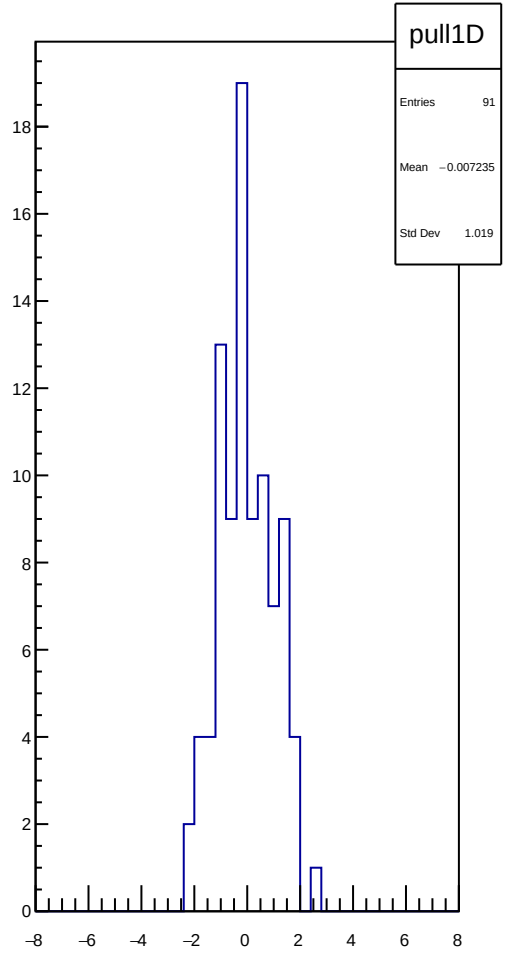

pull1D
Entries 91
Mean 0.002302
Std Dev 1.04

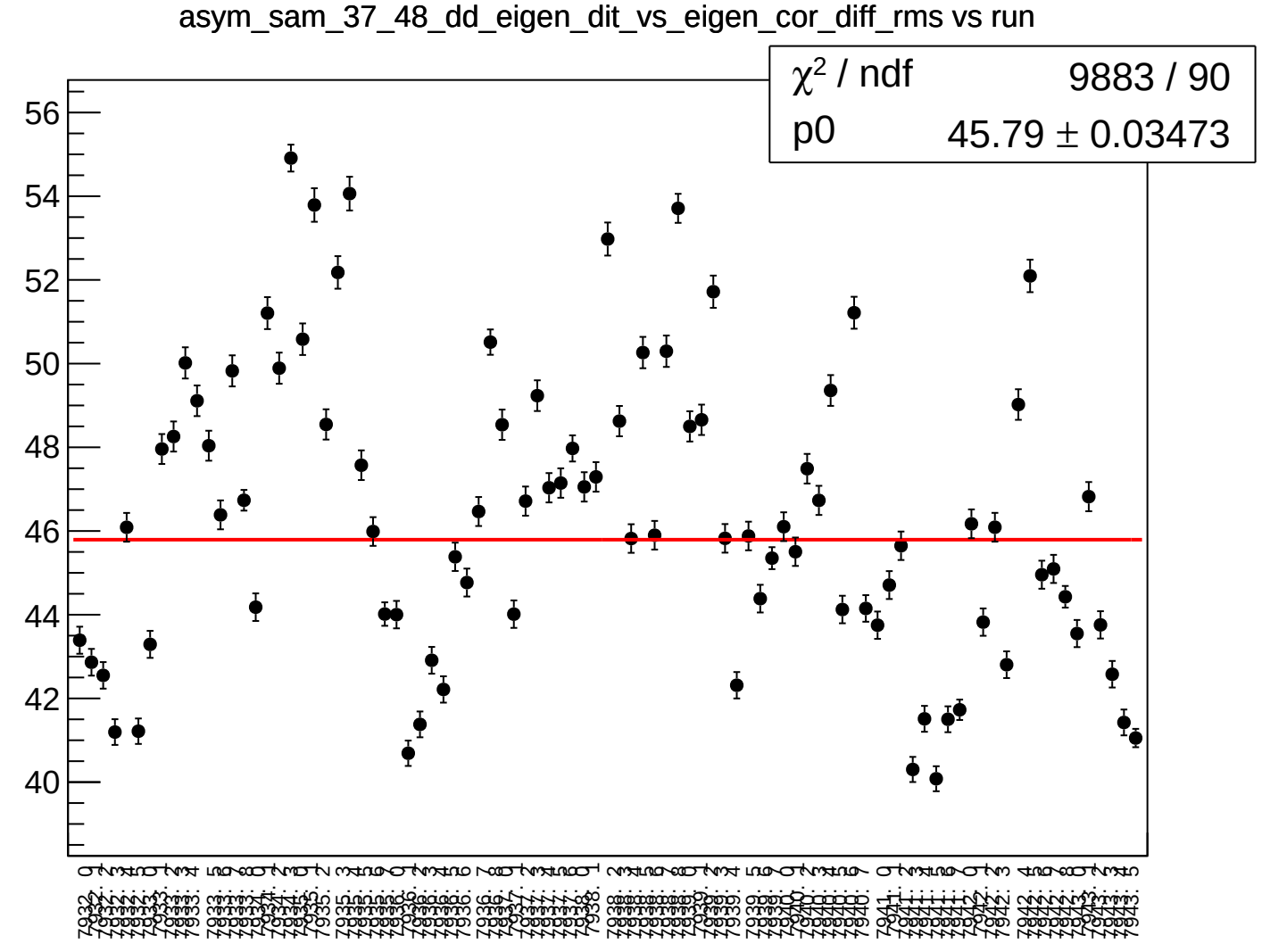

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 653.3 / 90
p0 0.001701 ± 1.287e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

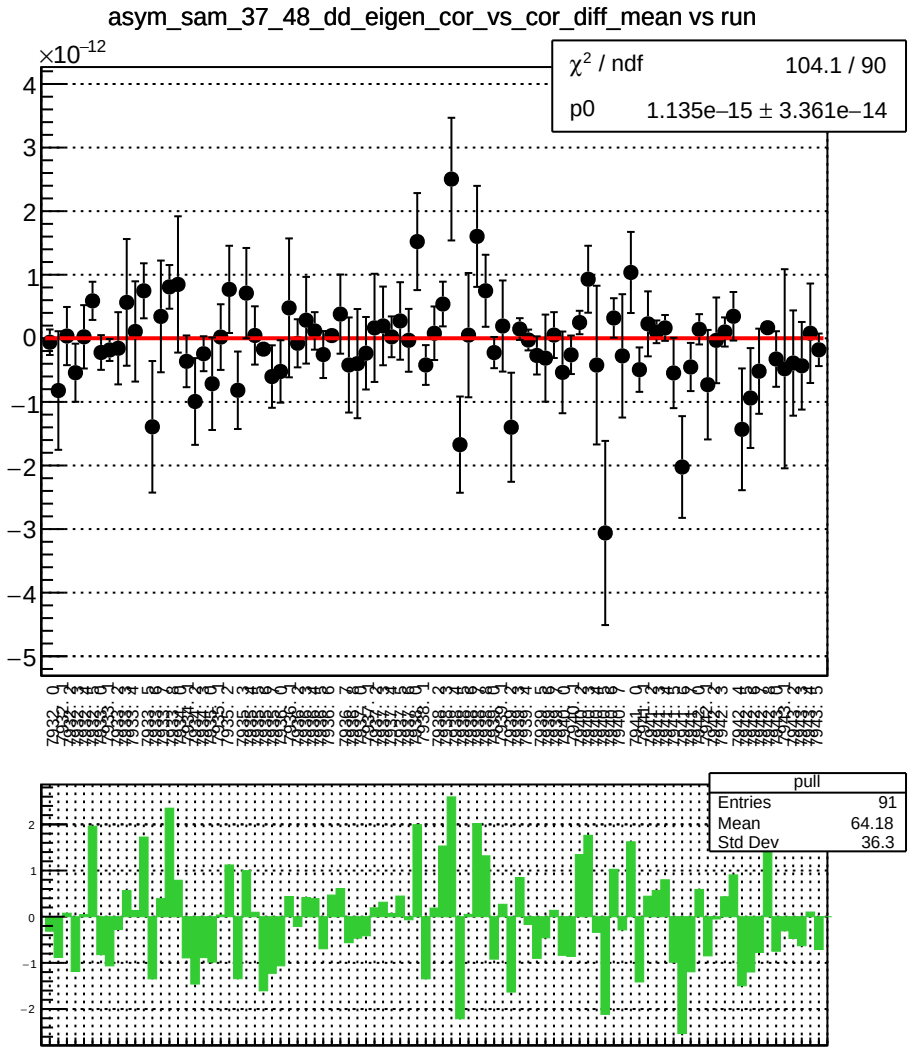

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.56 / 90
p0 −0.03265 ± 0.04912
pull
Entries 91
Mean −497.1
Std Dev 0
pull1D
Entries 91
Mean −0.007235
Std Dev 1.019

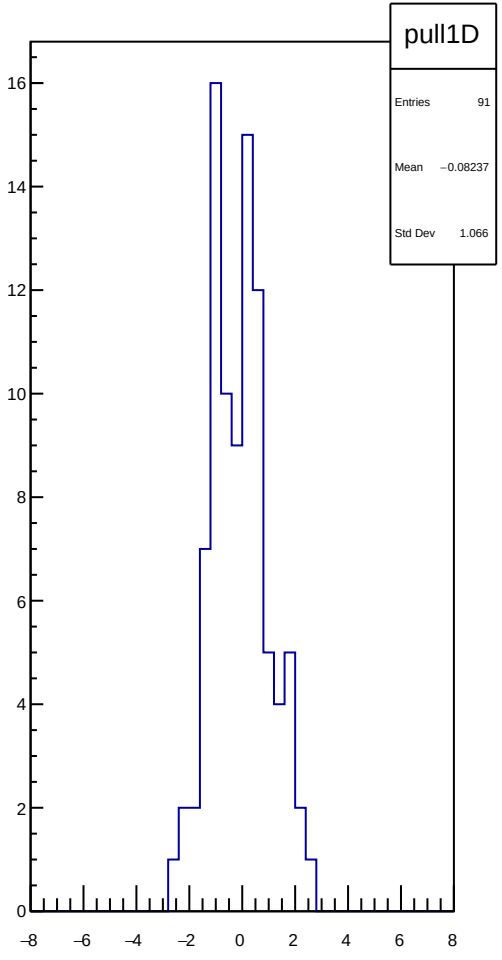

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9883 / 90
p0 45.79 ± 0.03473
56
54
52
50
48
46
44
42
40

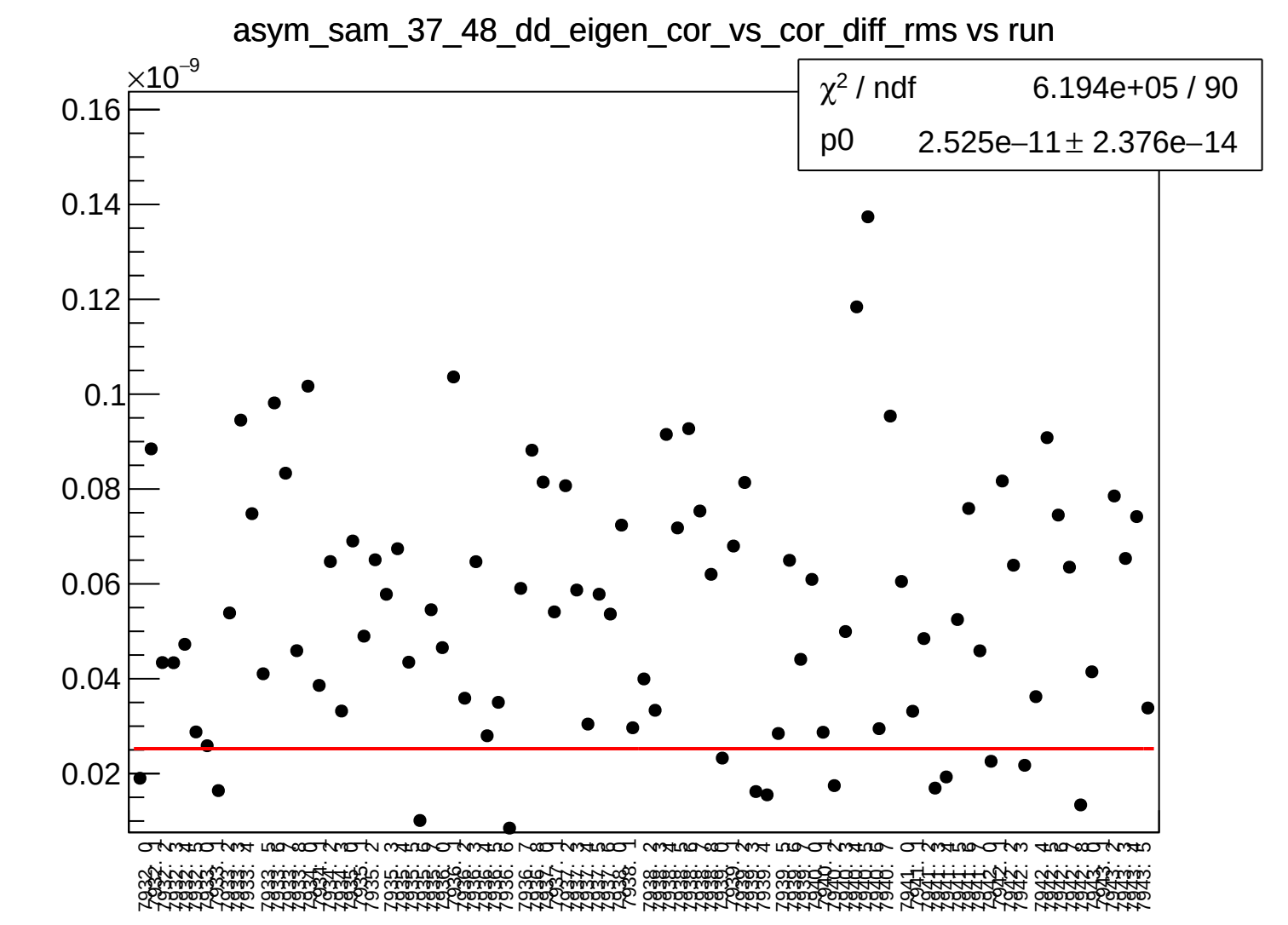

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.56 / 90
p0 −0.03265 ± 0.04912
pull
Entries 91
Mean −497.1
Std Dev 0

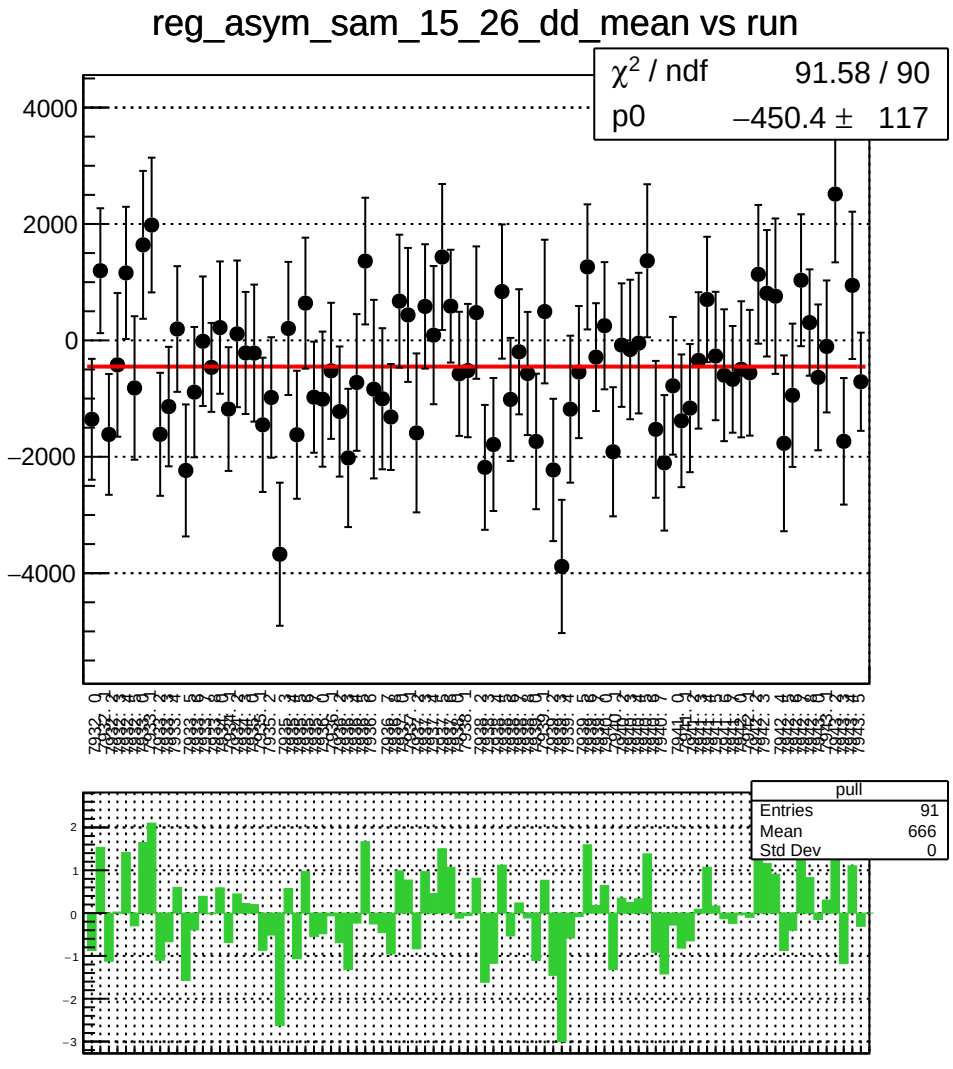

pull1D
Entries 91
Mean −0.007235
Std Dev 1.019

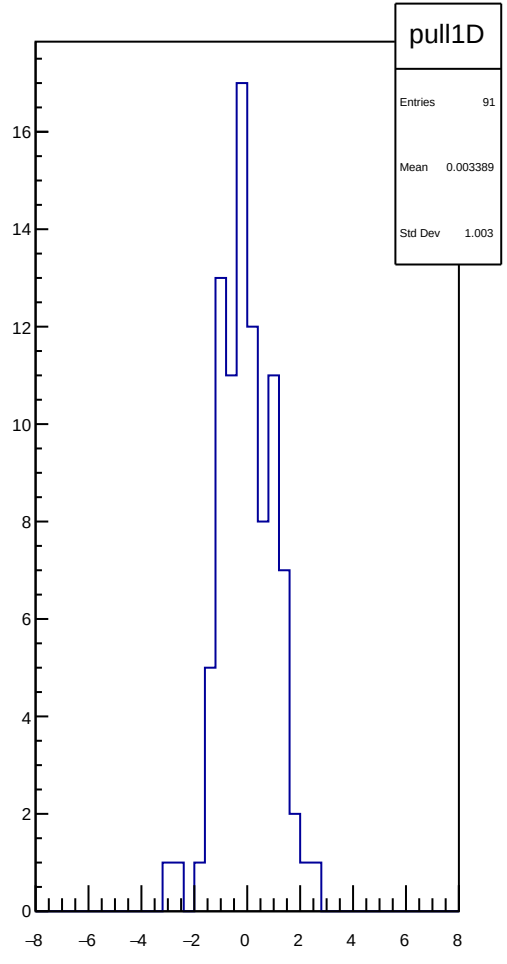

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9883 / 90
p0 45.79 ± 0.03473
56
54
52
50
48
46
44
42
40

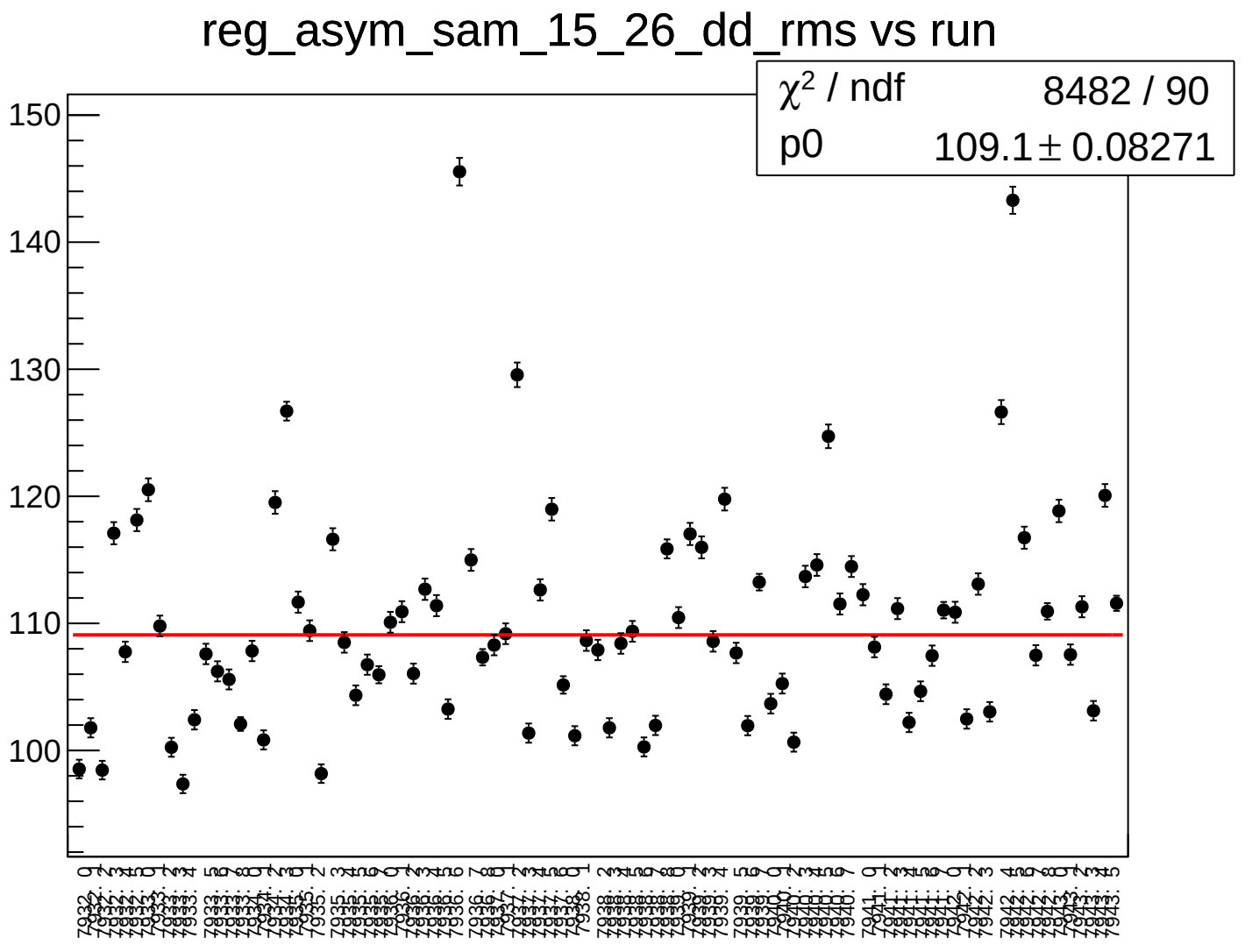

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.1 / 90
p0 1.135e−15 ± 3.361e−14
pull
Entries 91
Mean 64.18
Std Dev 36.3

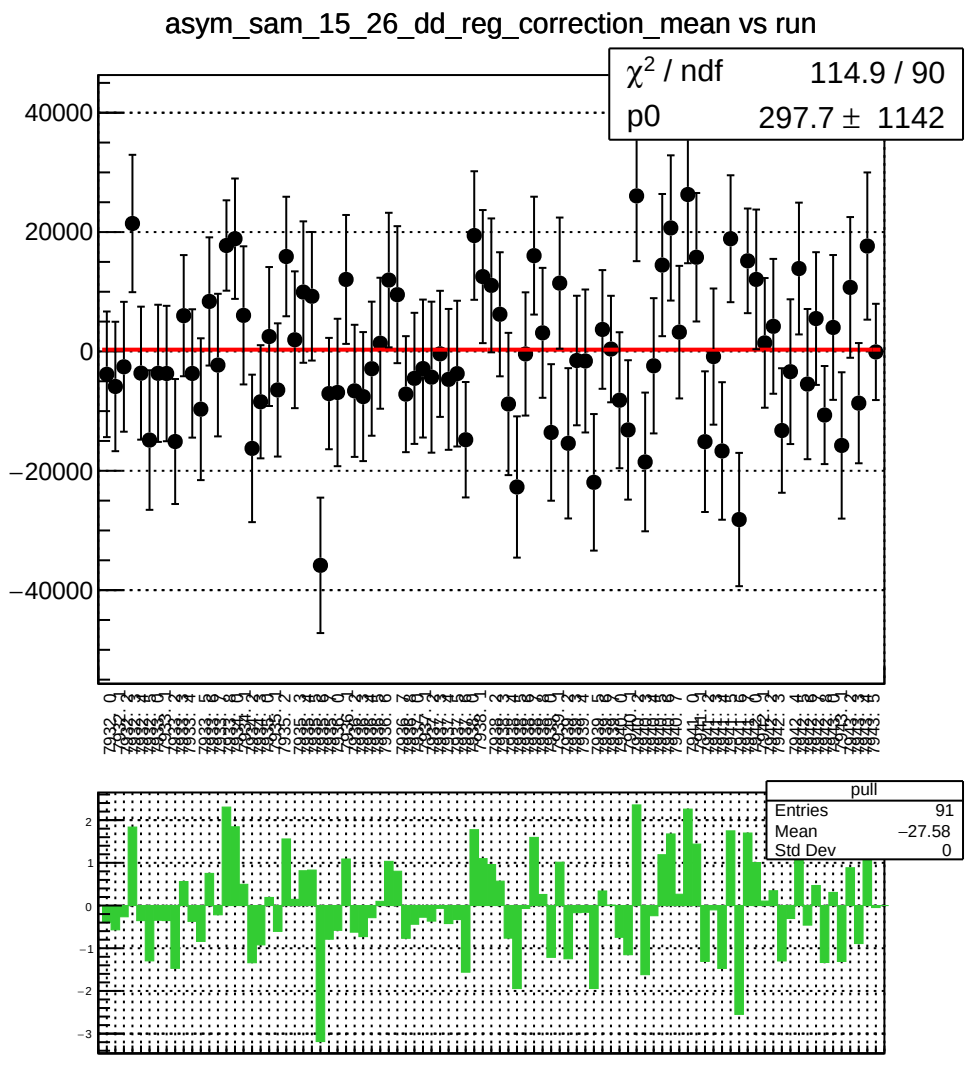

pull1D
Entries 91
Mean −0.08237
Std Dev 1.066

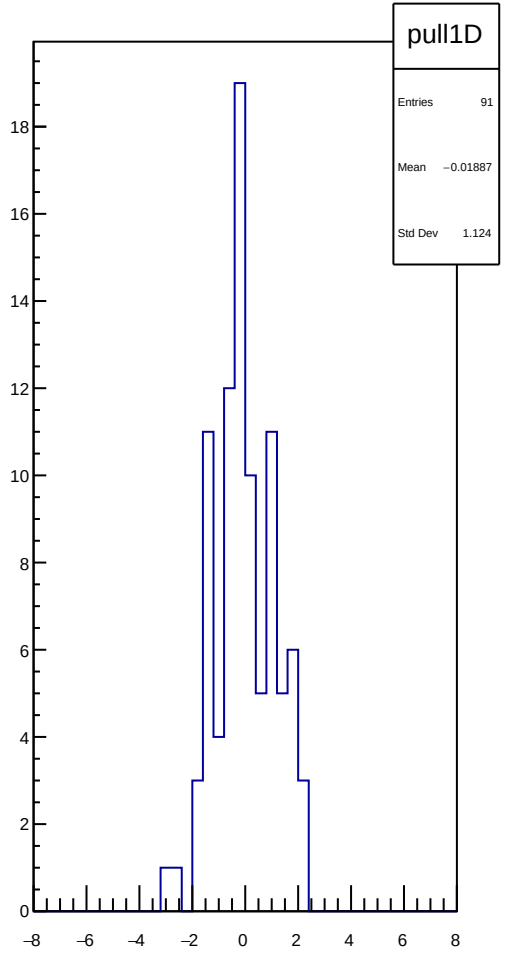

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.194e+05 / 90
p0 2.525e−11 ± 2.376e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

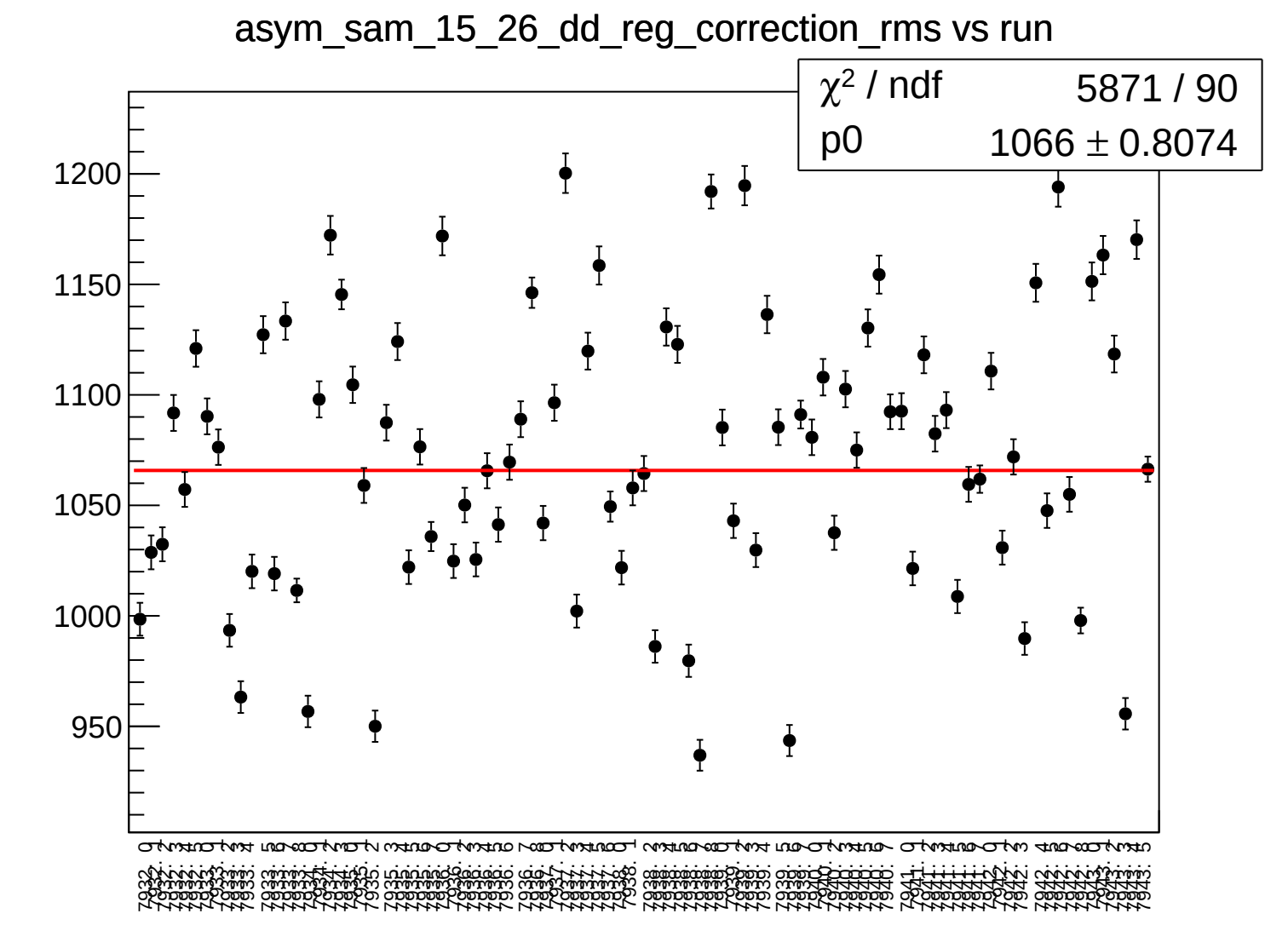

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 91.58 / 90
p0 −450.4 ± 117
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 666
Std Dev 0
2
1
0
−1
−2
−3

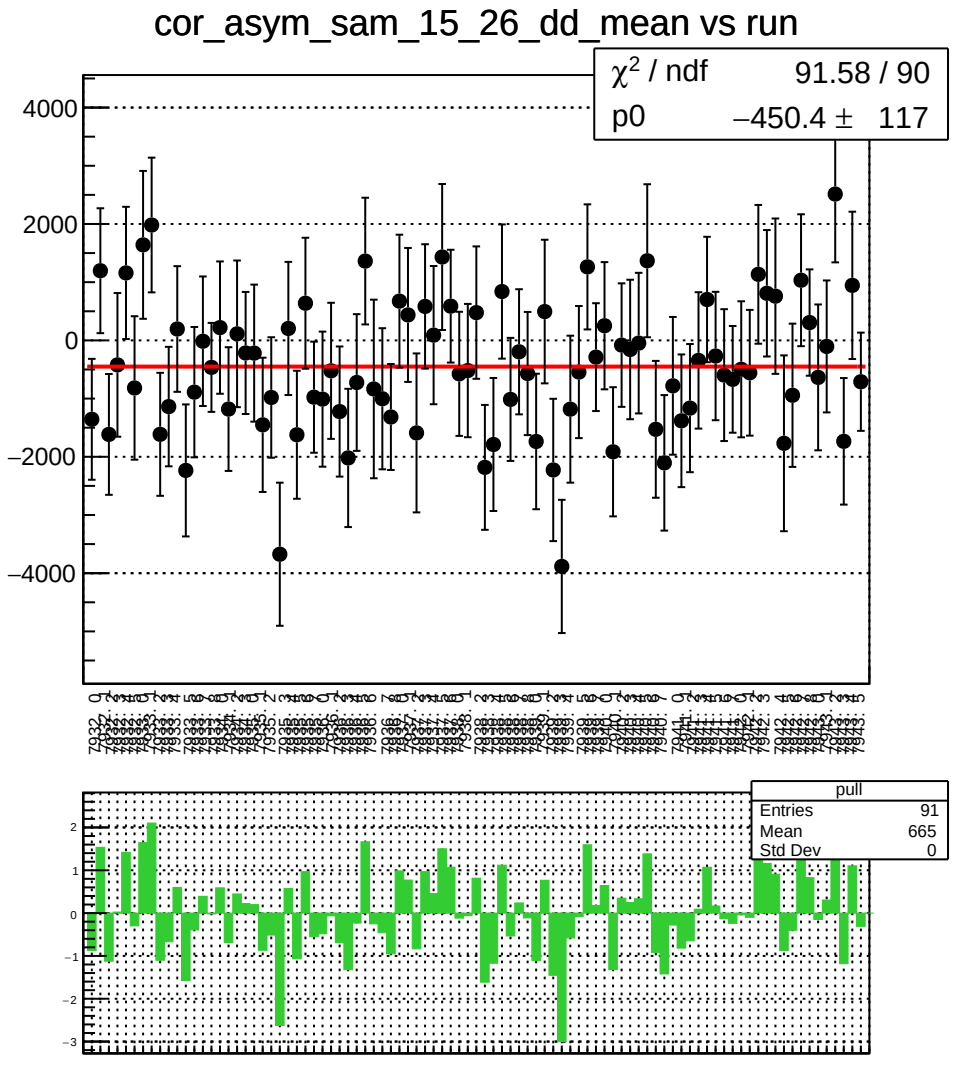

pull1D
Entries 91
Mean 0.003389
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

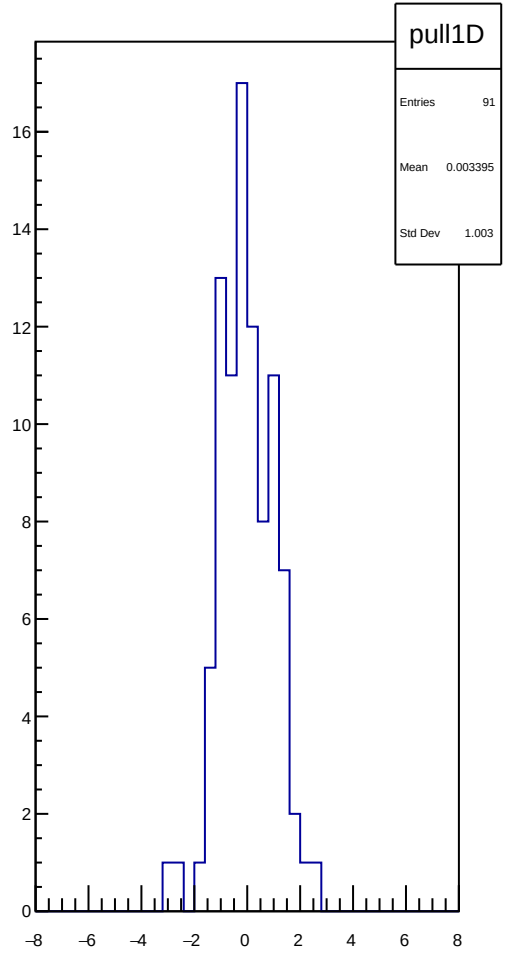

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 8482 / 90
p0 109.1 ± 0.08271
150
140
130
120
110
100

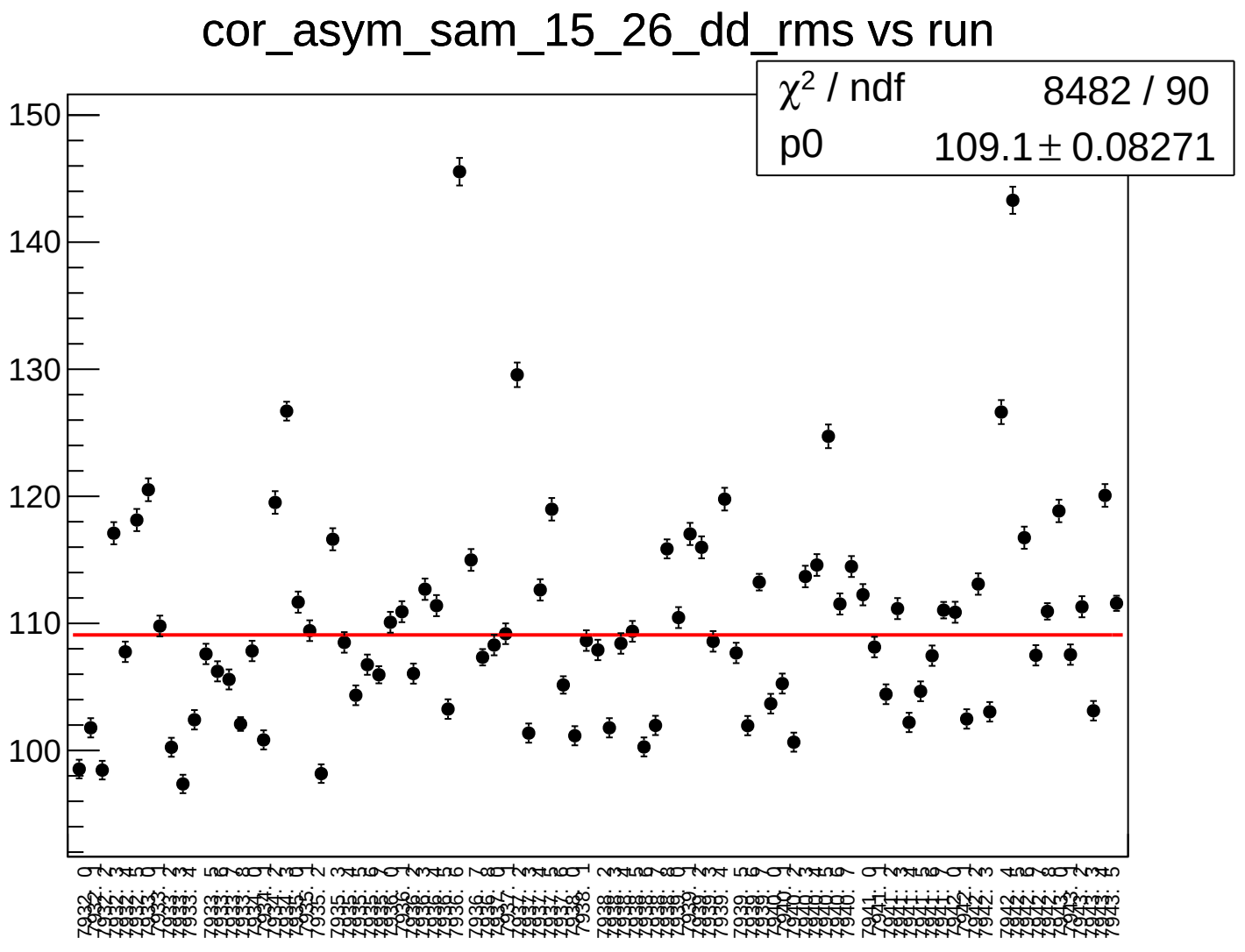

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 114.9 / 90
p0 297.7 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −27.58
Std Dev 0
2
1
0
−1
−2
−3

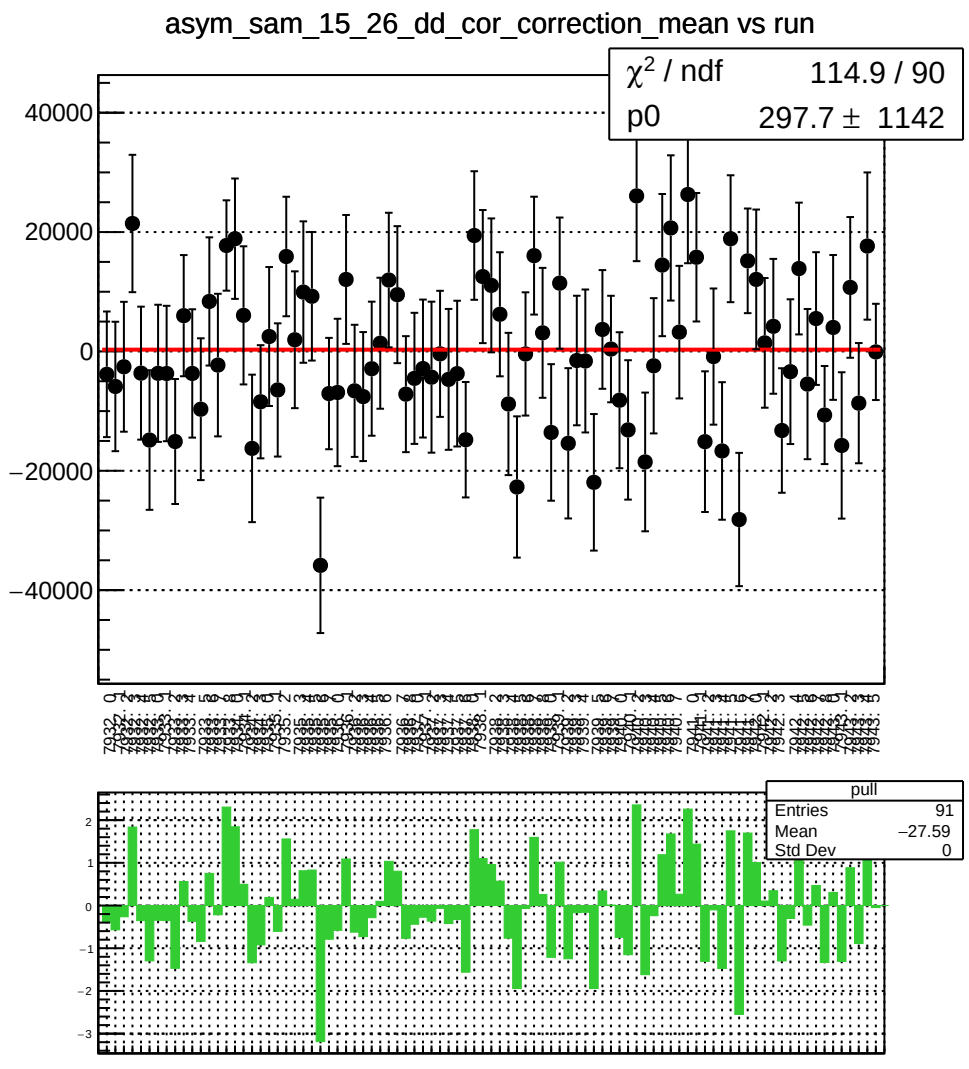

pull1D
Entries 91
Mean −0.01887
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

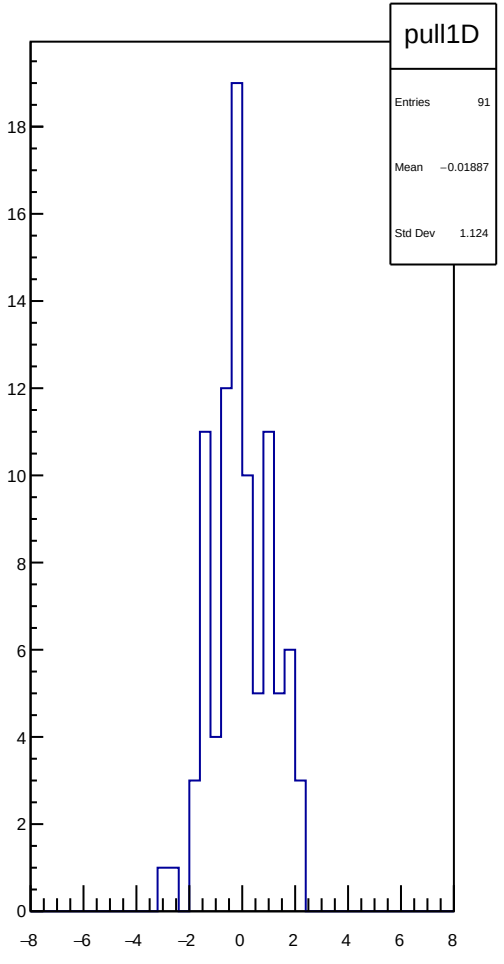

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5871 / 90
p0 1066 ± 0.8074
1200
1150
1100
1050
1000
950

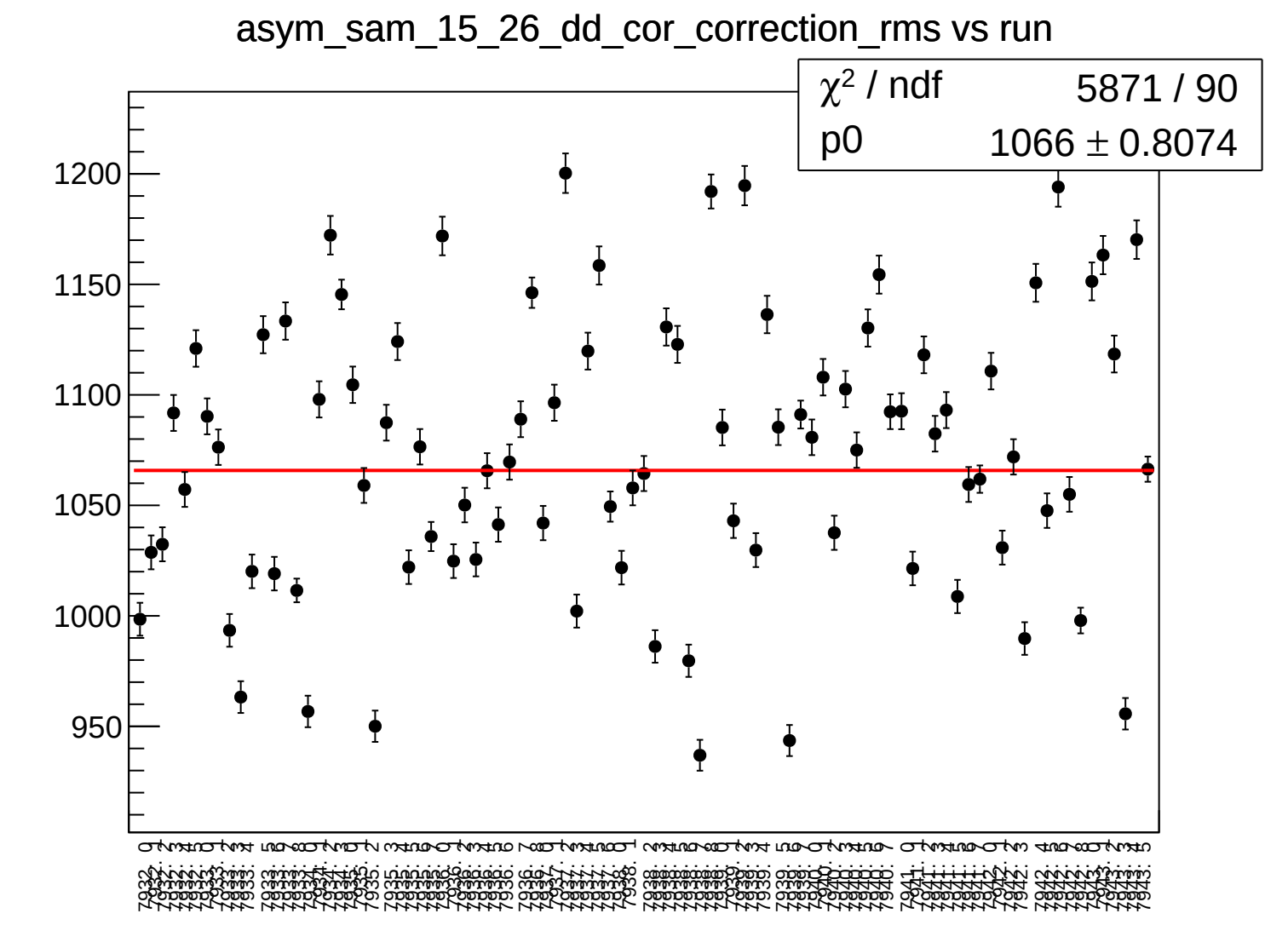

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 91.58 / 90
p0 −450.4 ± 117
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 665
Std Dev 0
2
1
0
−1
−2
−3

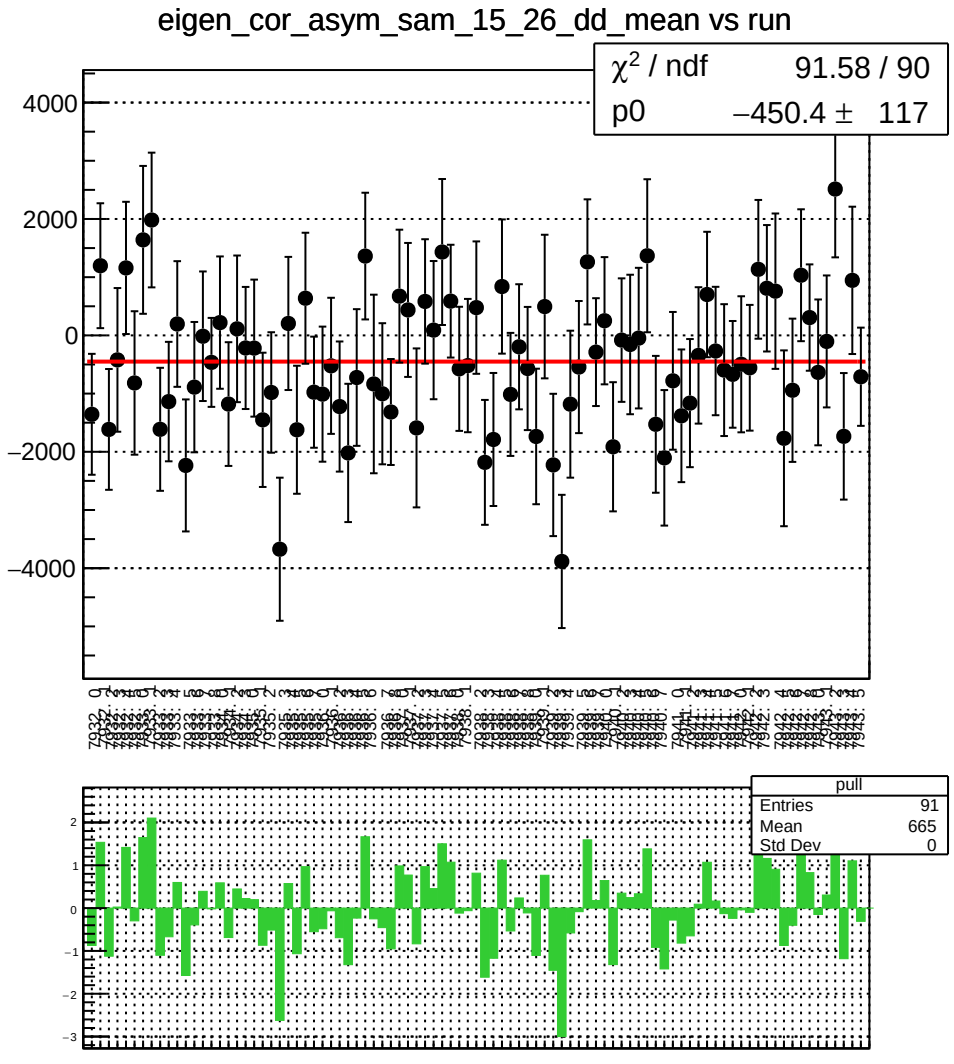

pull1D
Entries 91
Mean 0.003395
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

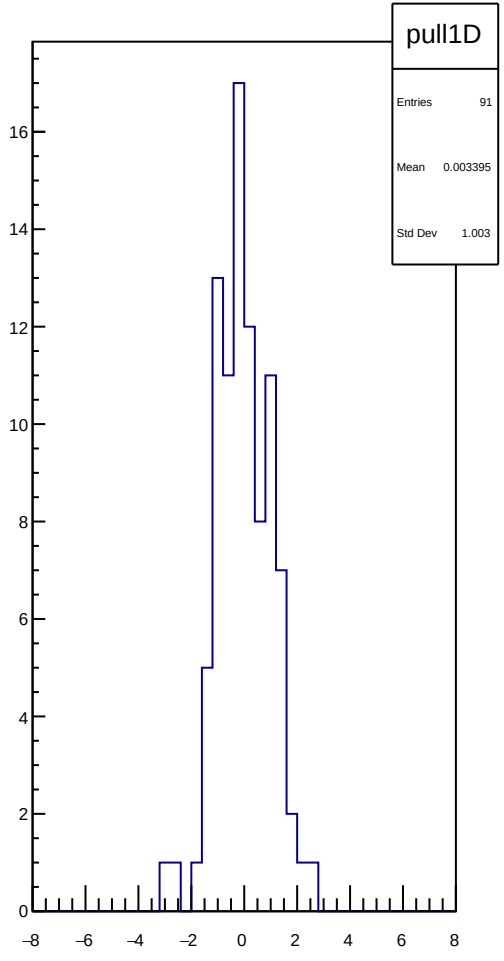

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 8482 / 90
p0 109.1 ± 0.08271
150
140
130
120
110
100

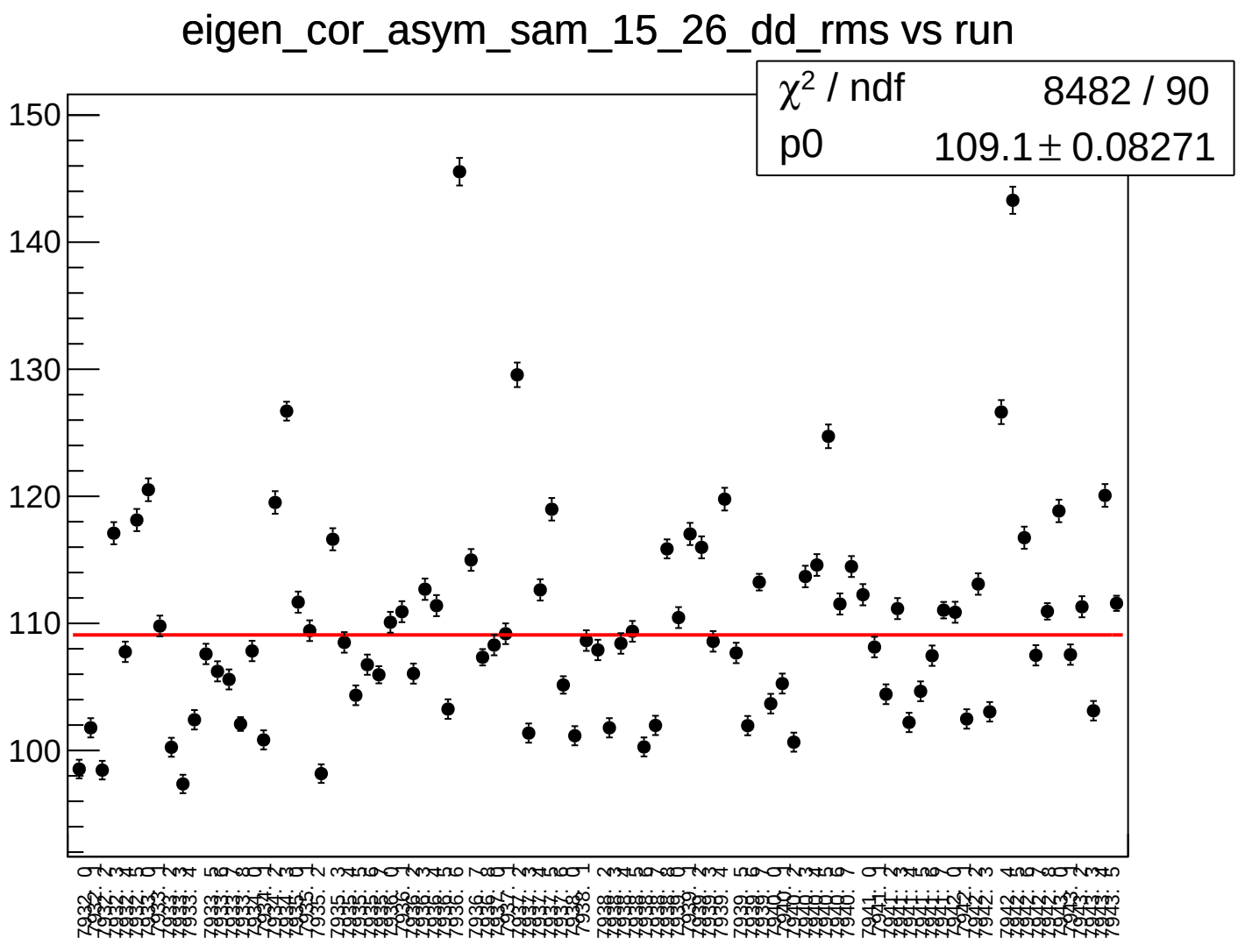

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 114.9 / 90
p0 297.7 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −27.59
Std Dev 0
2
1
0
−1
−2
−3

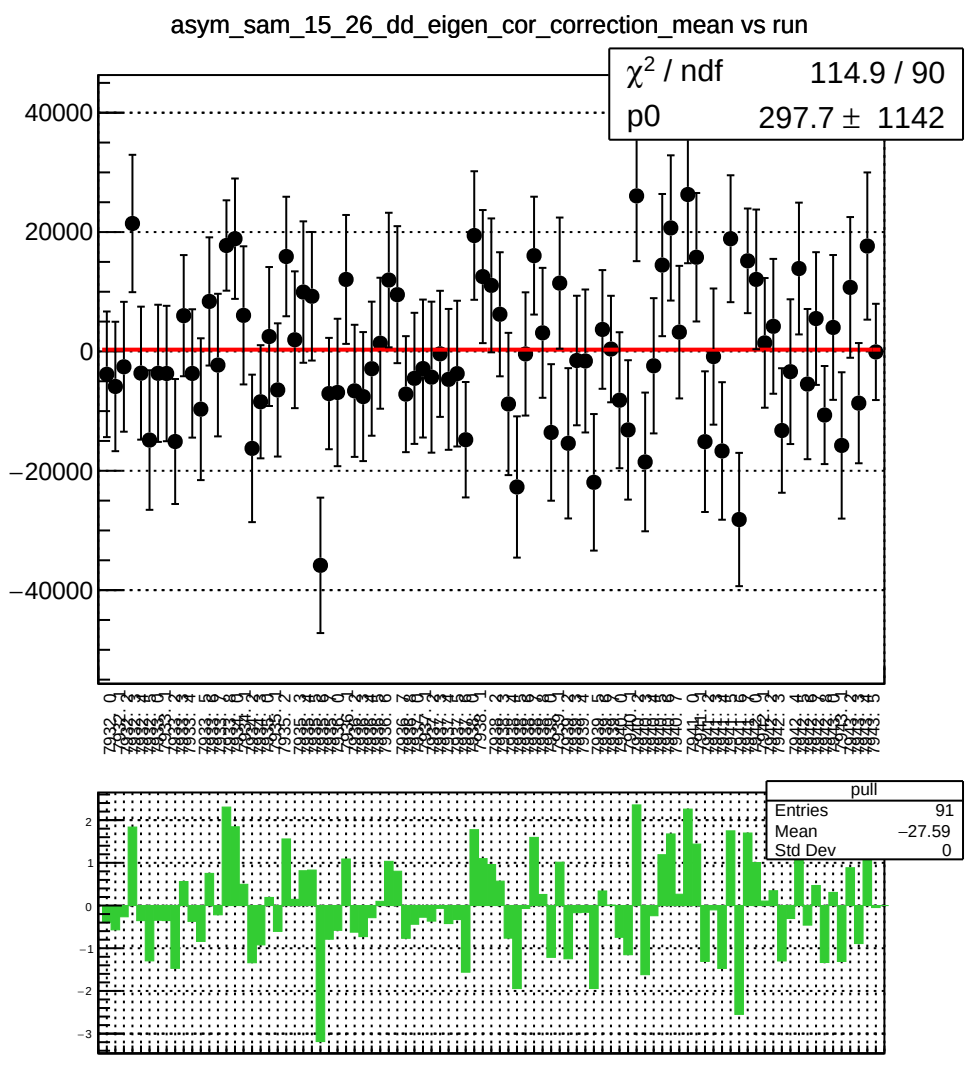

pull1D
Entries 91
Mean −0.01887
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

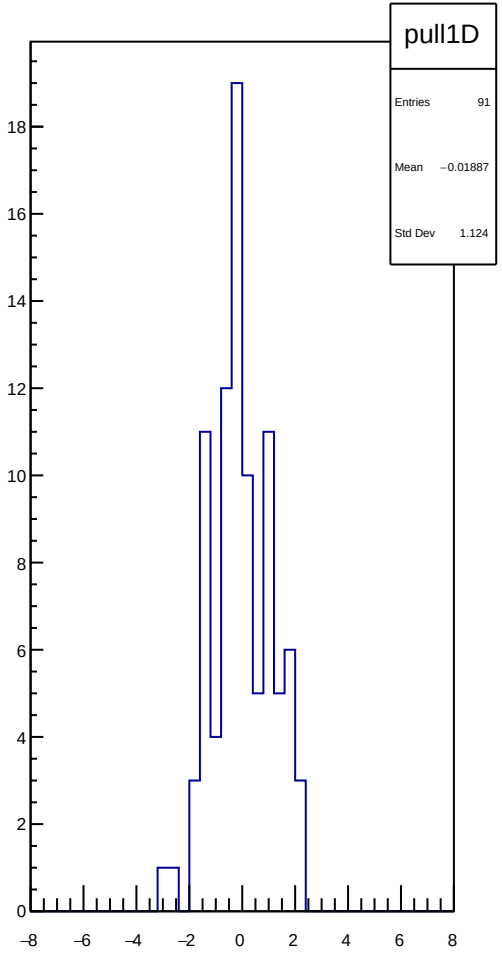

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5871 / 90
p0 1066 ± 0.8074
1200
1150
1100
1050
1000
950

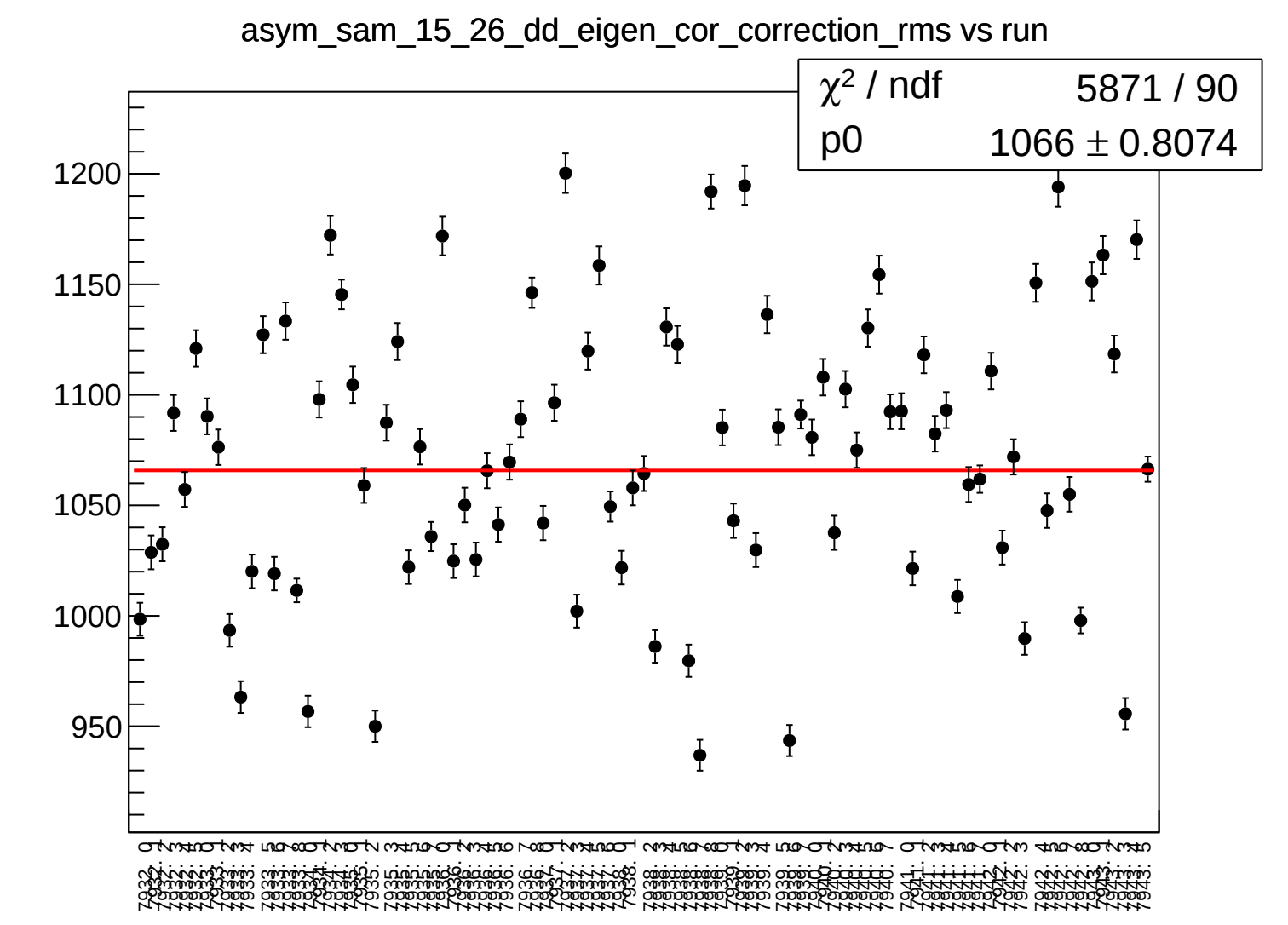

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 91.58 / 90
p0 −450.4 ± 117
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 665
Std Dev 0
2
1
0
−1
−2
−3

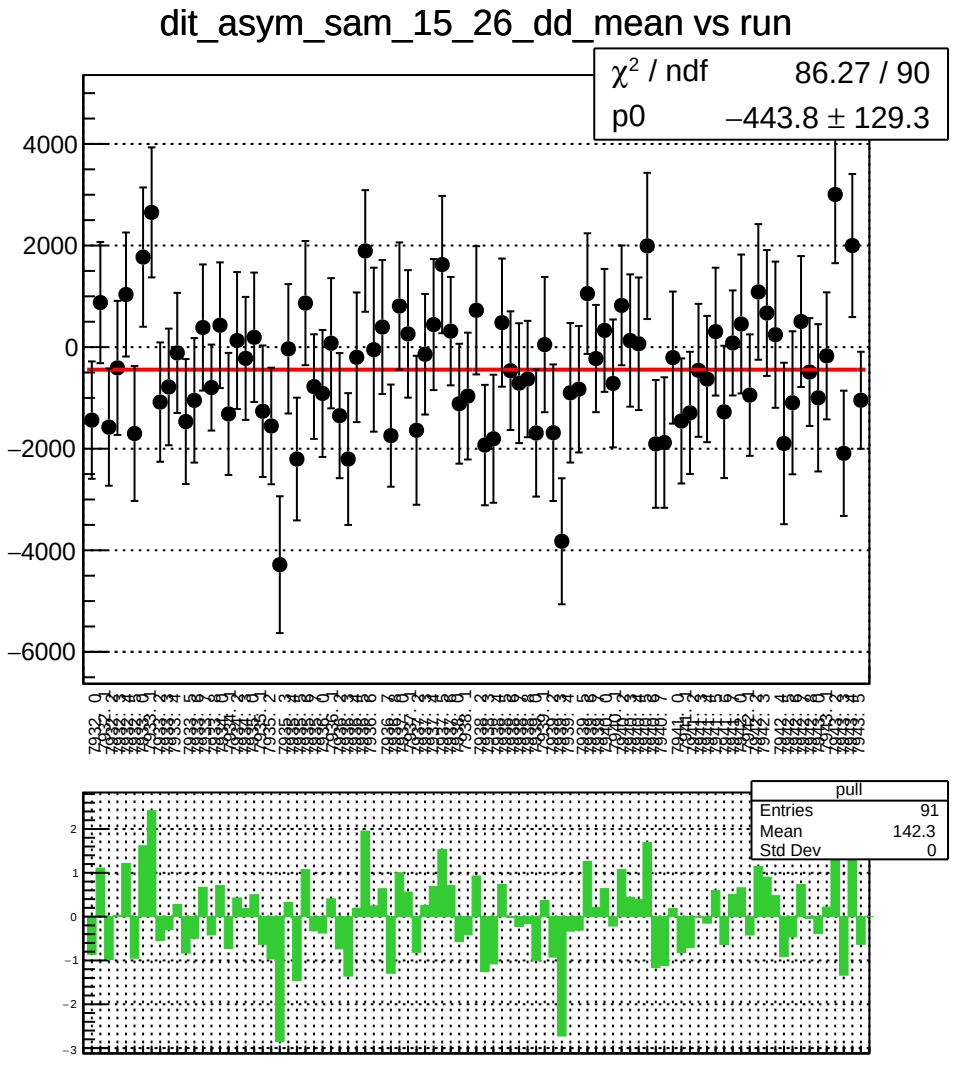

pull1D
Entries 91
Mean 0.003395
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

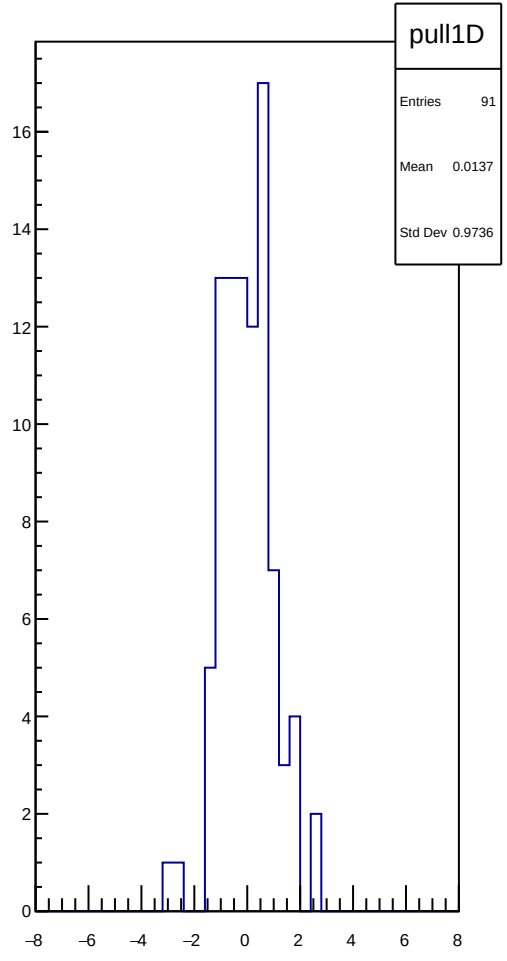

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 8482 / 90
p0 109.1 ± 0.08271
150
140
130
120
110
100

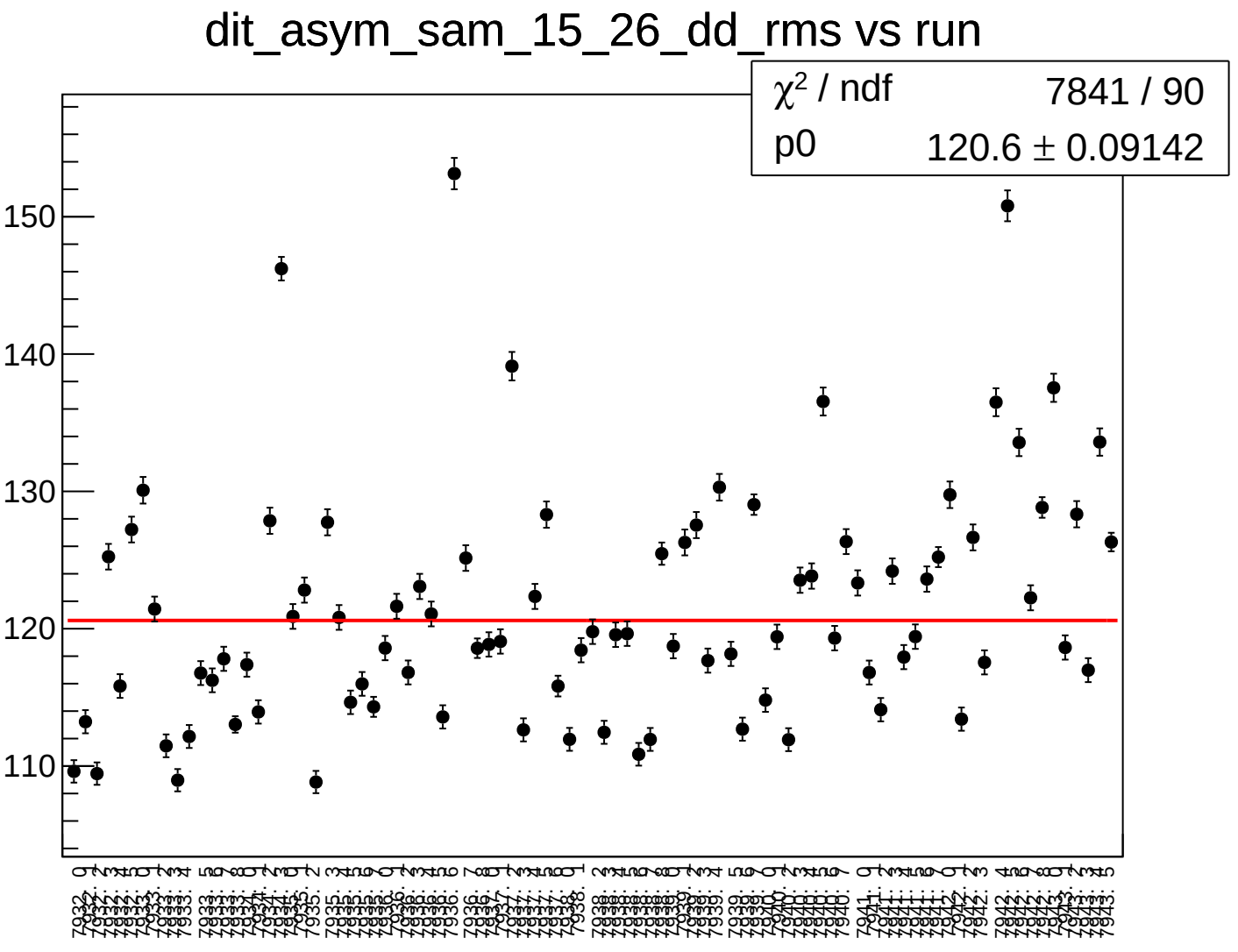

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.9 / 90
p0 297.7 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −27.59
Std Dev 0
2
1
0
−1
−2
−3

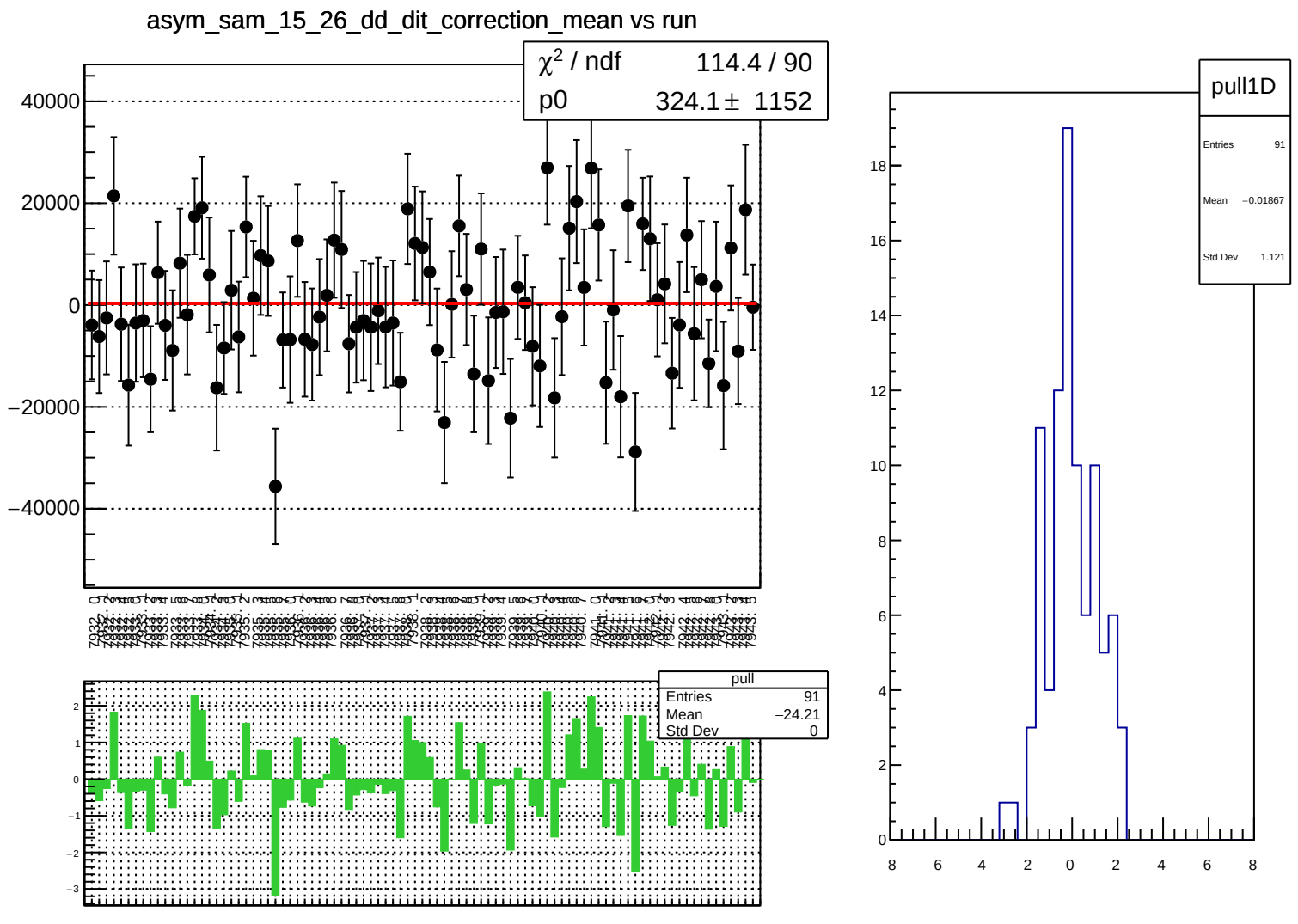

pull1D
Entries 91
Mean −0.01887
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

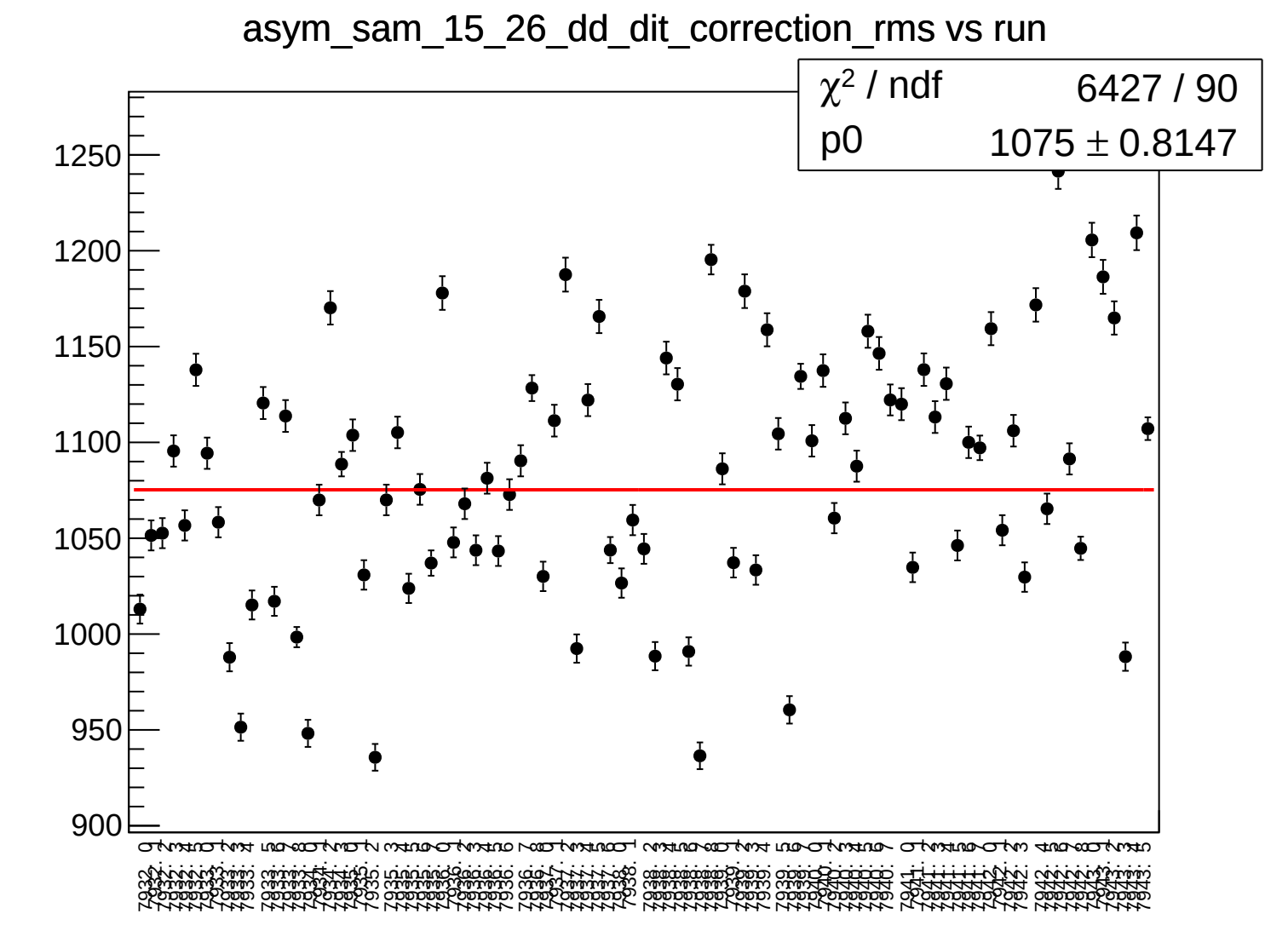

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5871 / 90
p0 1066 ± 0.8074
1200
1150
1100
1050
1000
950

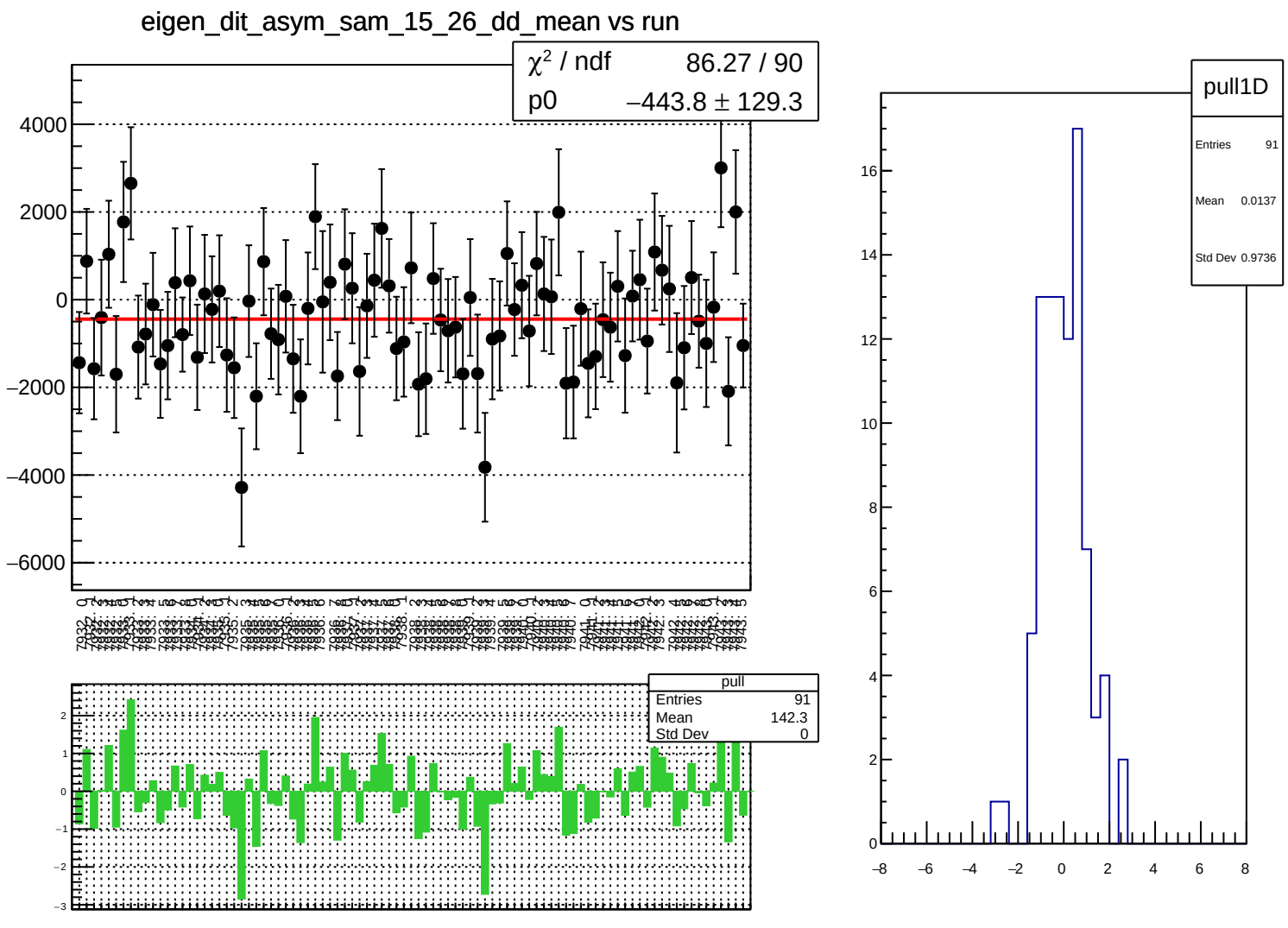

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.27 / 90
p0 −443.8 ± 129.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 142.3
Std Dev 0
2
1
0
−1
−2
−3

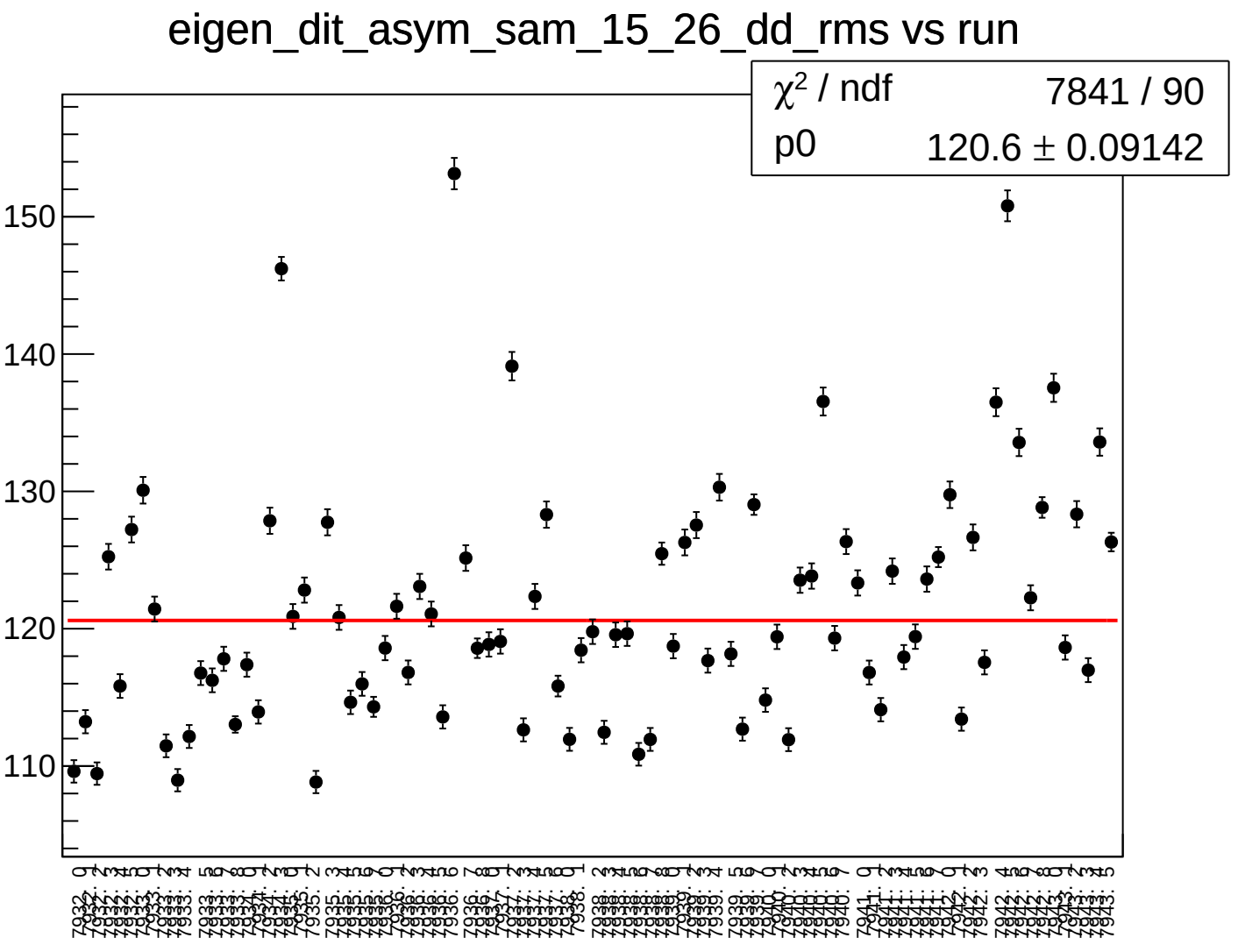

pull1D
Entries 91
Mean 0.0137
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

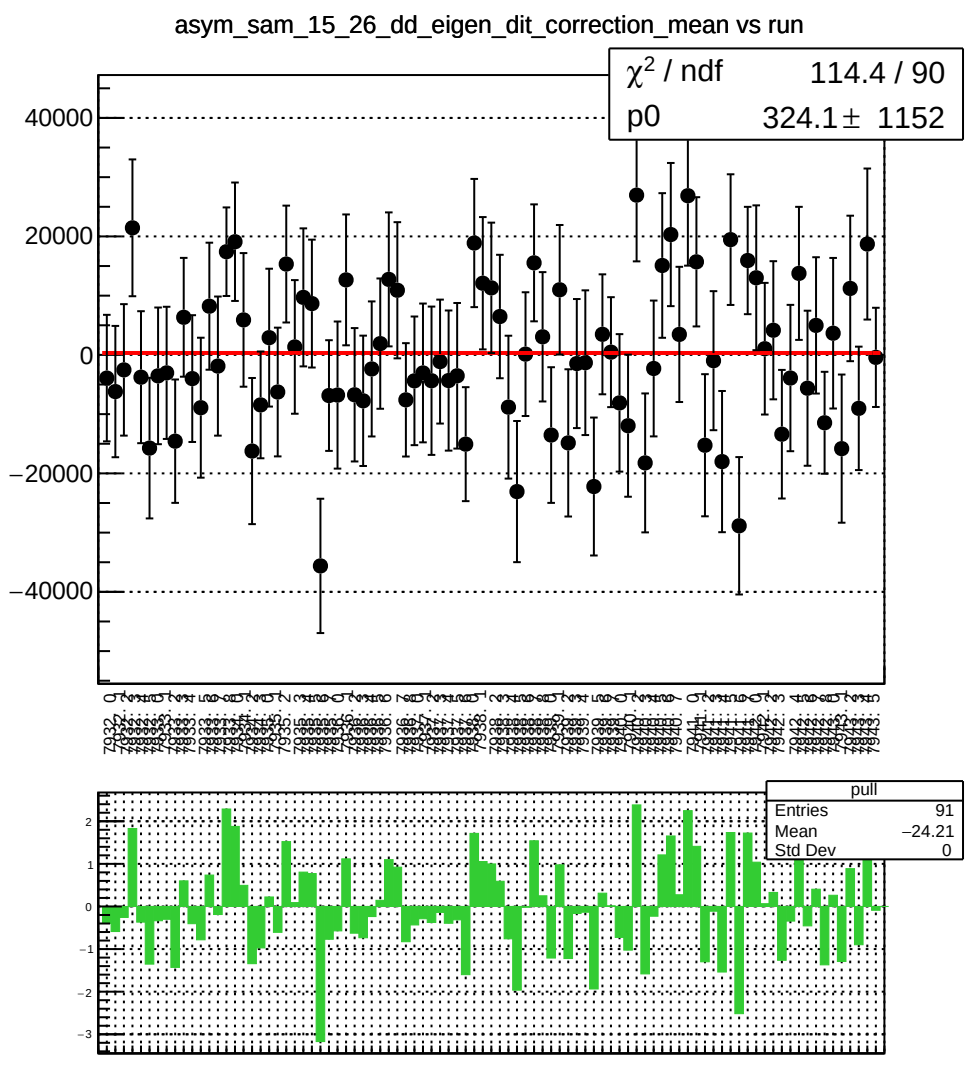

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 7841 / 90
p0 120.6 ± 0.09142
150
140
130
120
110

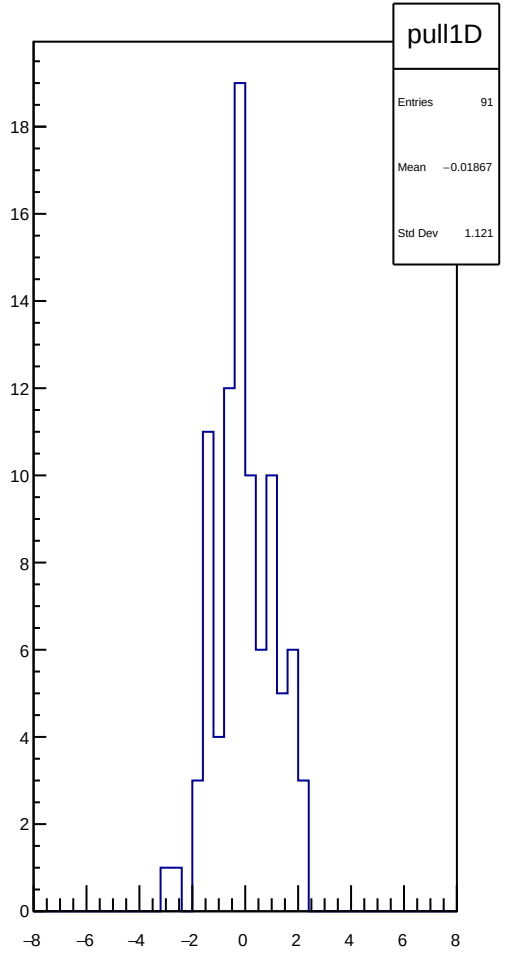

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 114.4 / 90
p0 324.1± 1152
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −24.21
Std Dev 0
pull1D
Entries 91
Mean −0.01867
Std Dev 1.121

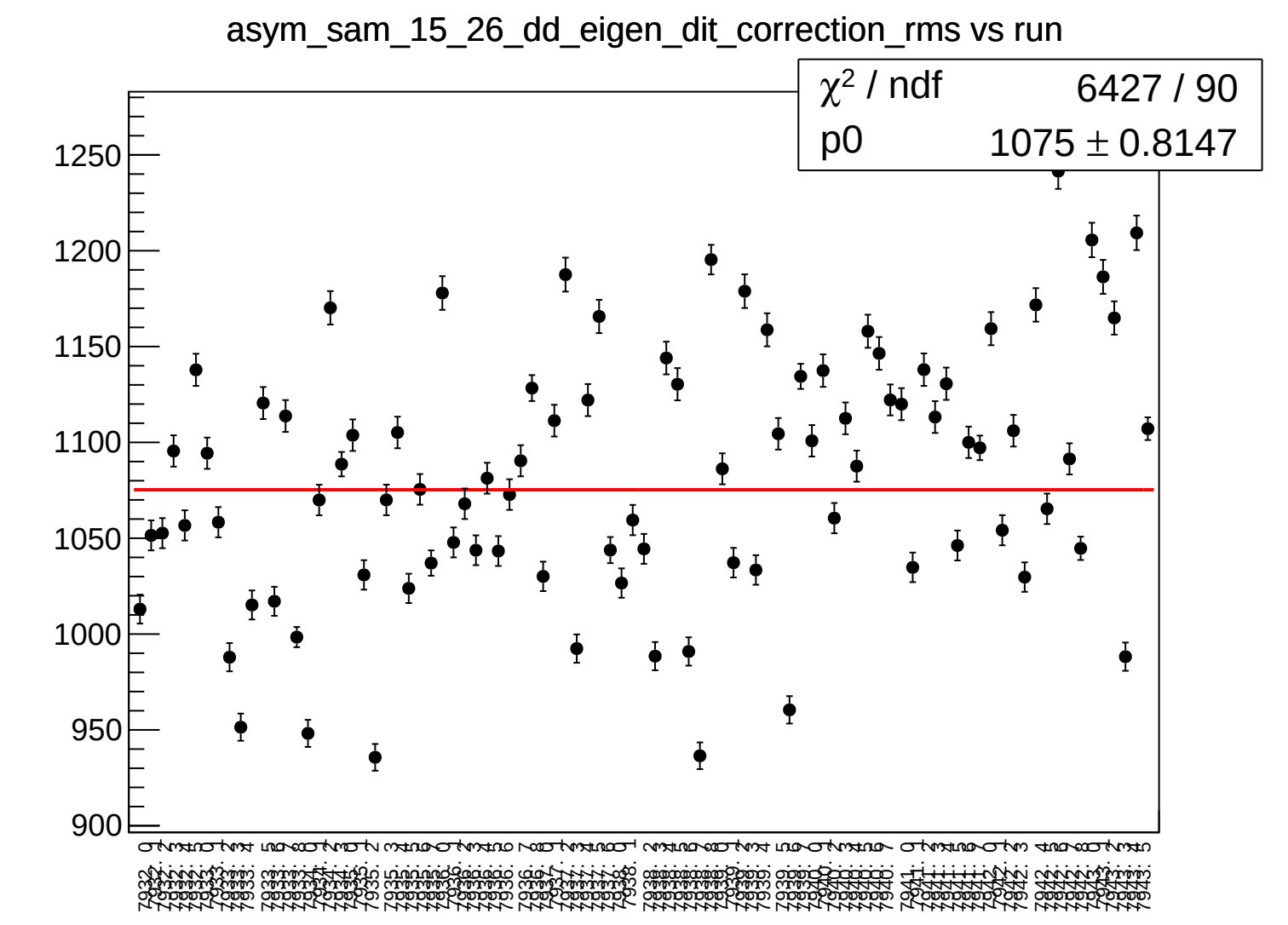

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6427 / 90
p0 1075 ± 0.8147
1250
1200
1150
1100
1050
1000
950
900

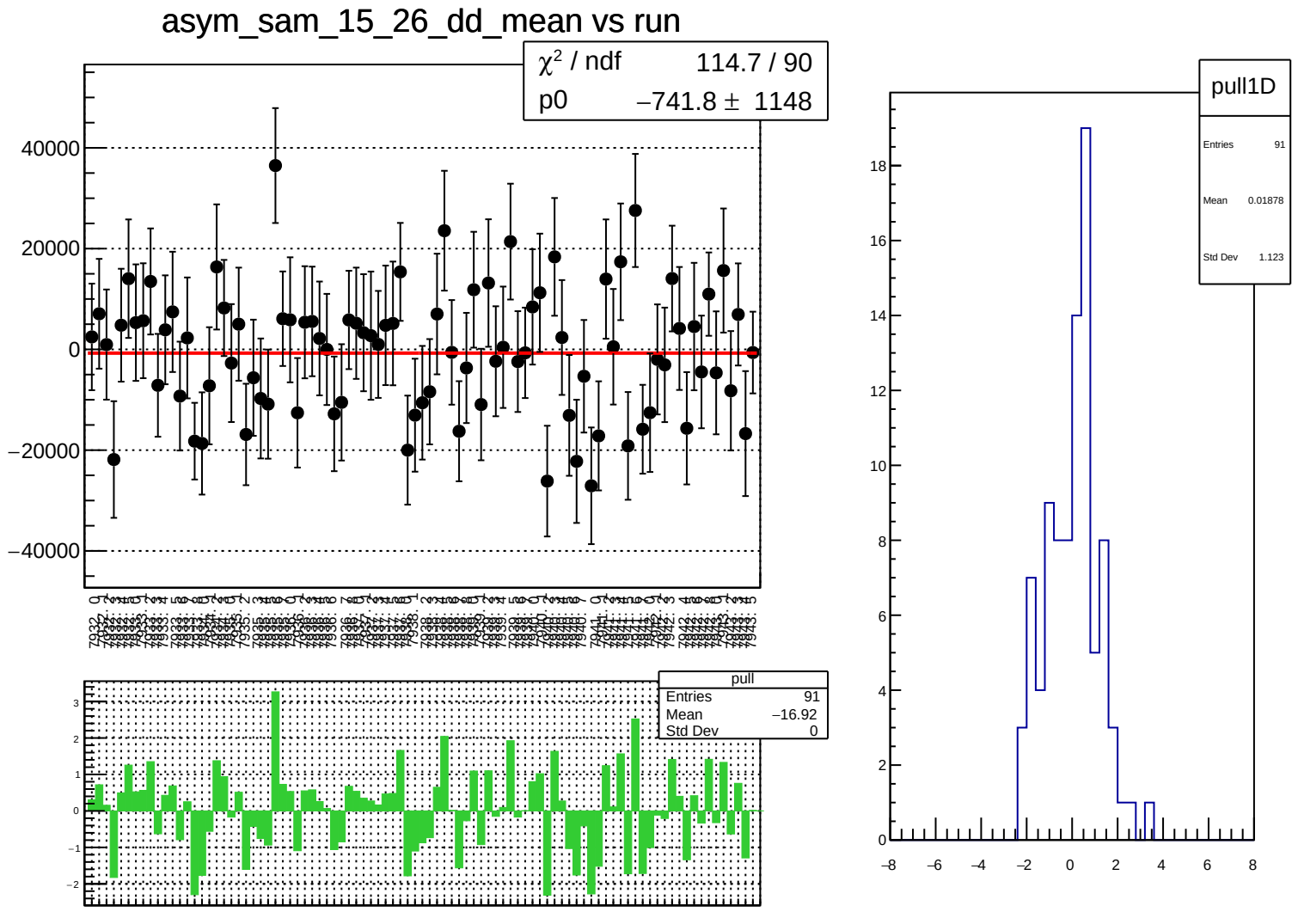

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.27 / 90
p0 −443.8 ± 129.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 142.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.0137
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

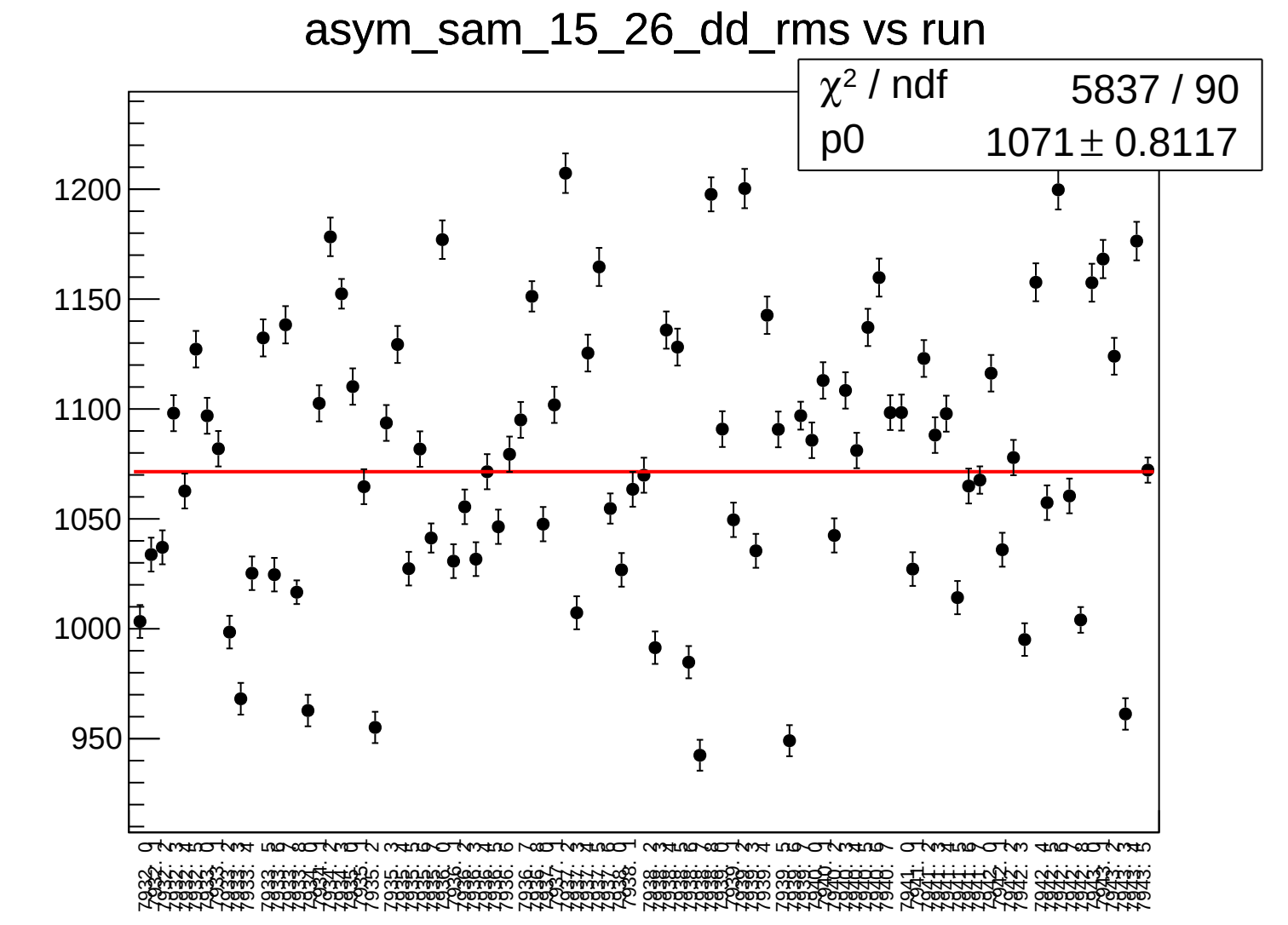

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7841 / 90
p0 120.6 ± 0.09142
150
140
130
120
110

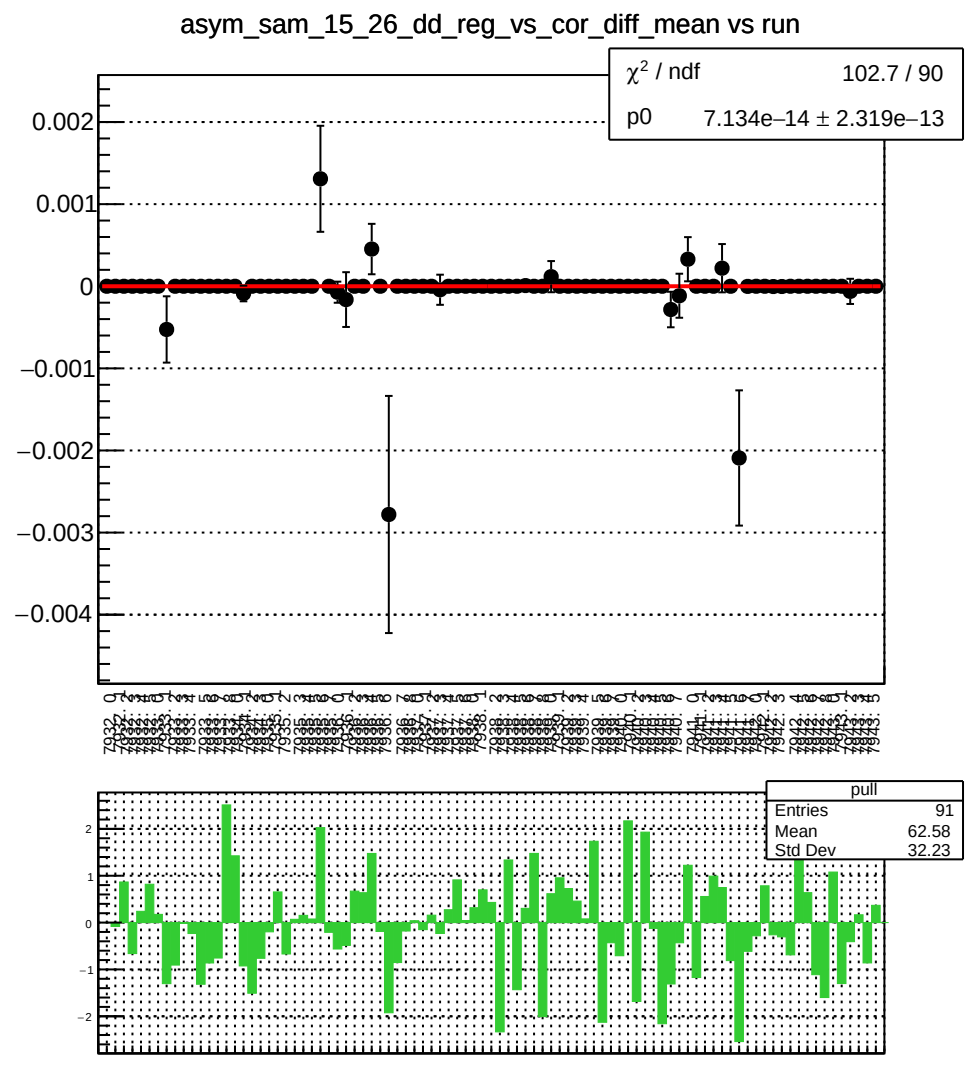

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.4 / 90
p0 324.1± 1152
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −24.21
Std Dev 0
2
1
0
−1
−2
−3

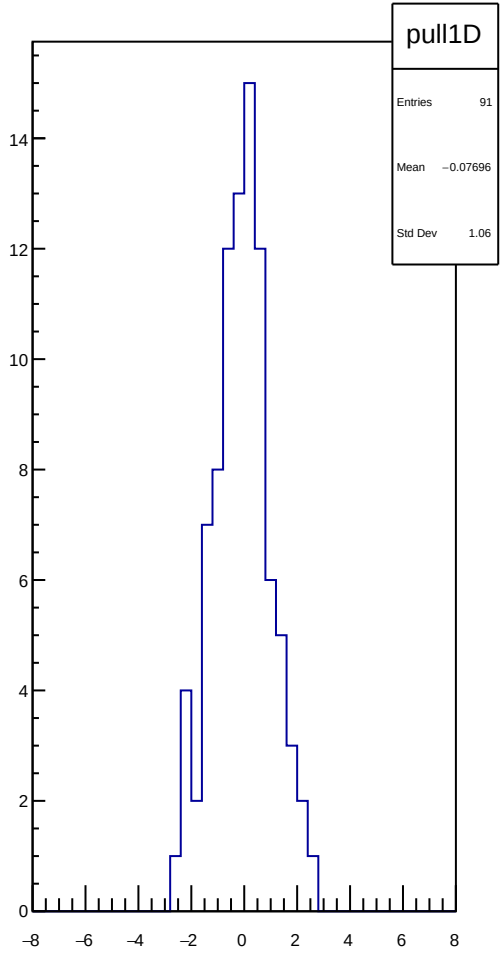

pull1D
Entries 91
Mean −0.01867
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

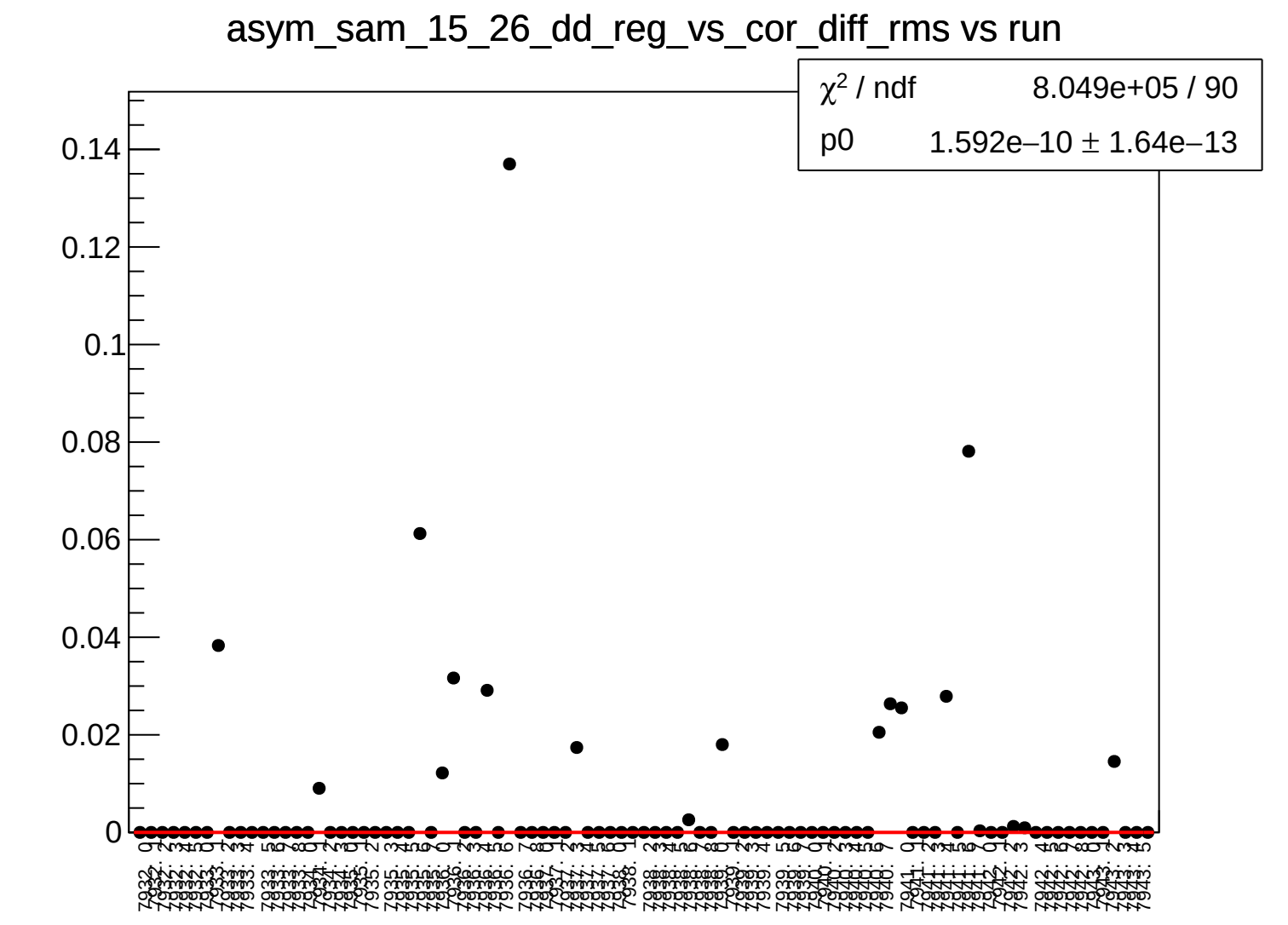

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6427 / 90
p0 1075 ± 0.8147
1250
1200
1150
1100
1050
1000
950
900

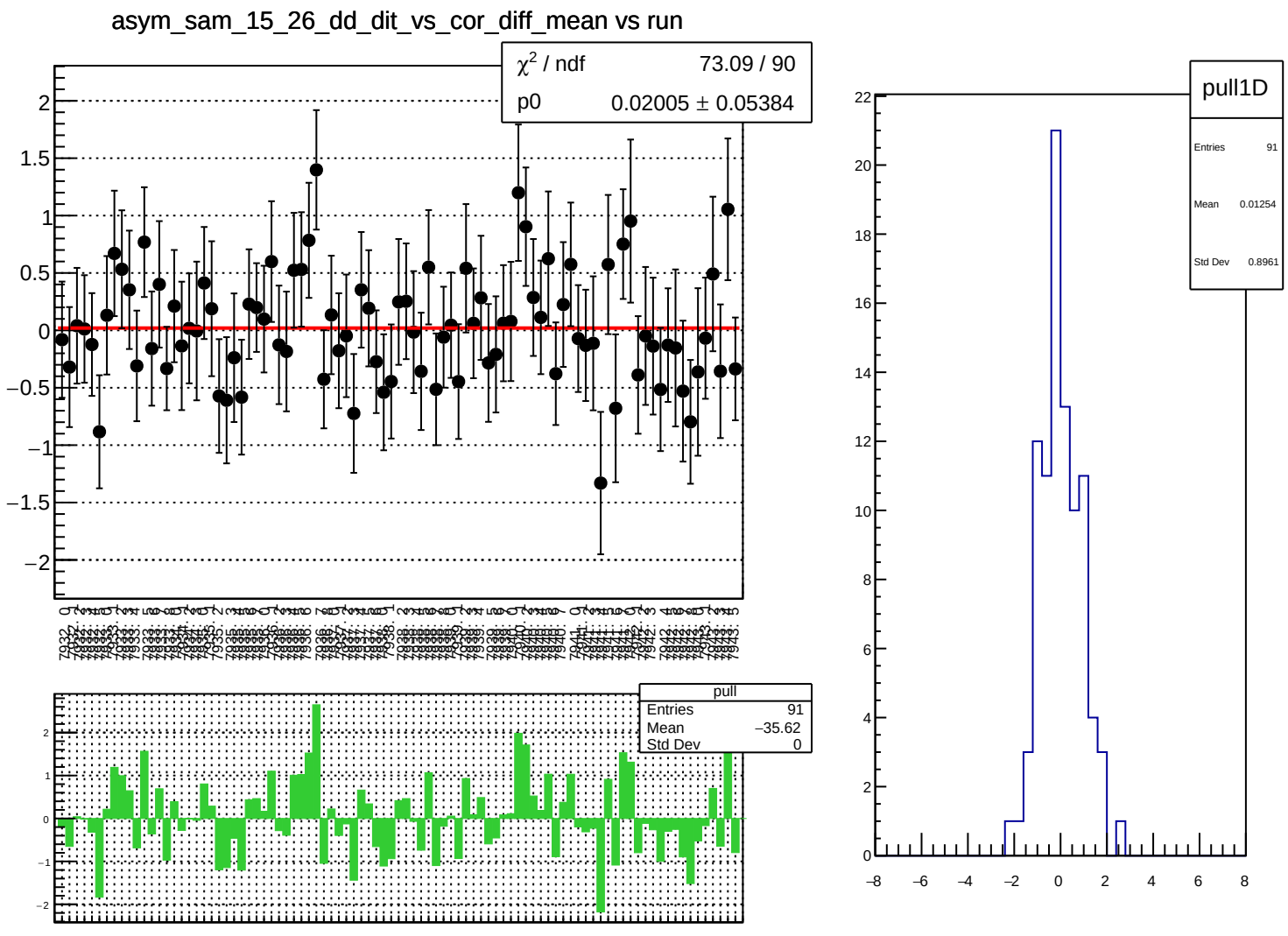

asym_sam_15_26_dd_mean vs run
χ² / ndf 114.7 / 90
p0 −741.8 ± 1148
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −16.92
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01878
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

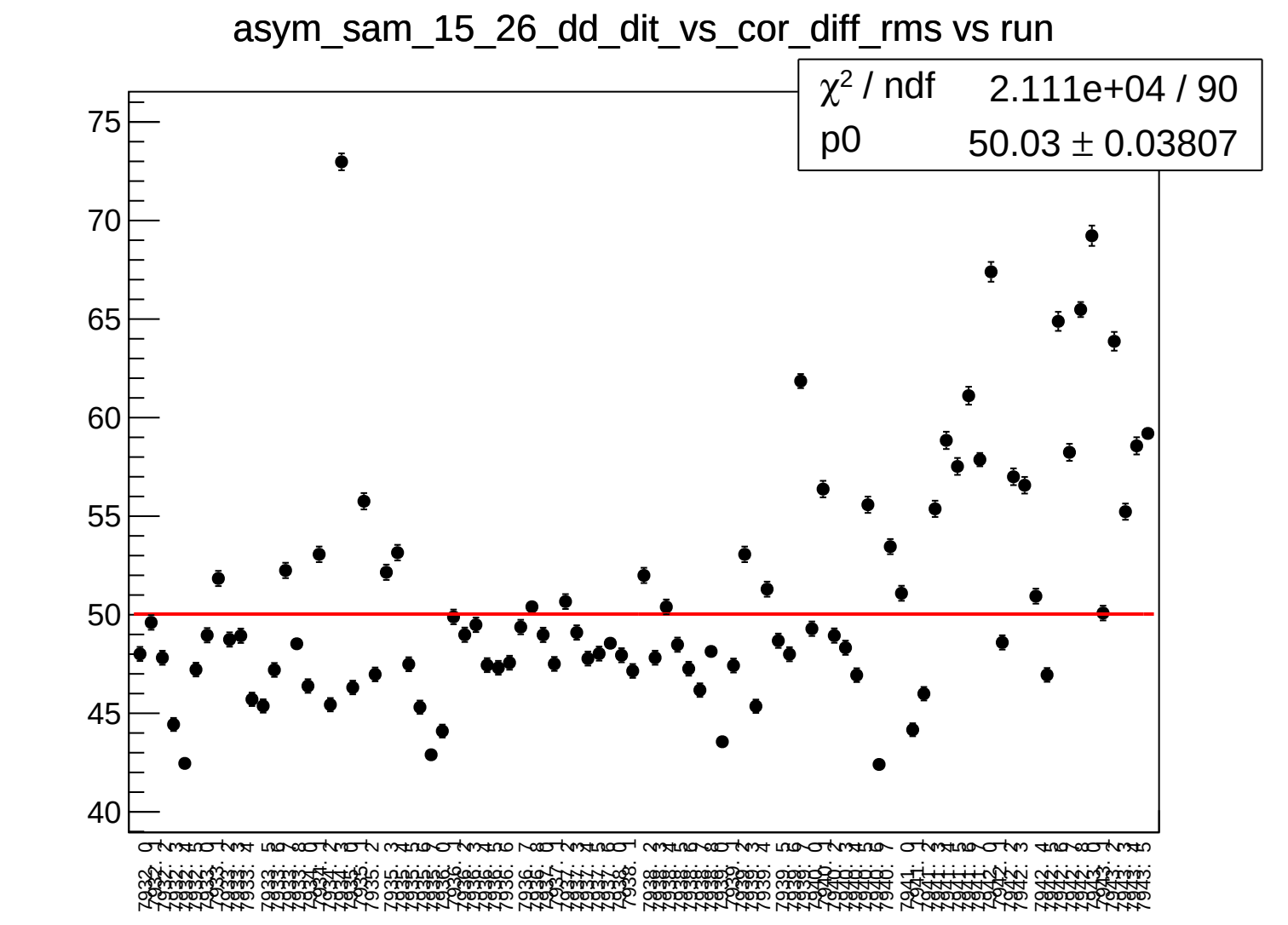

asym_sam_15_26_dd_rms vs run
χ² / ndf 5837 / 90
p0 1071 ± 0.8117
1200
1150
1100
1050
1000
950

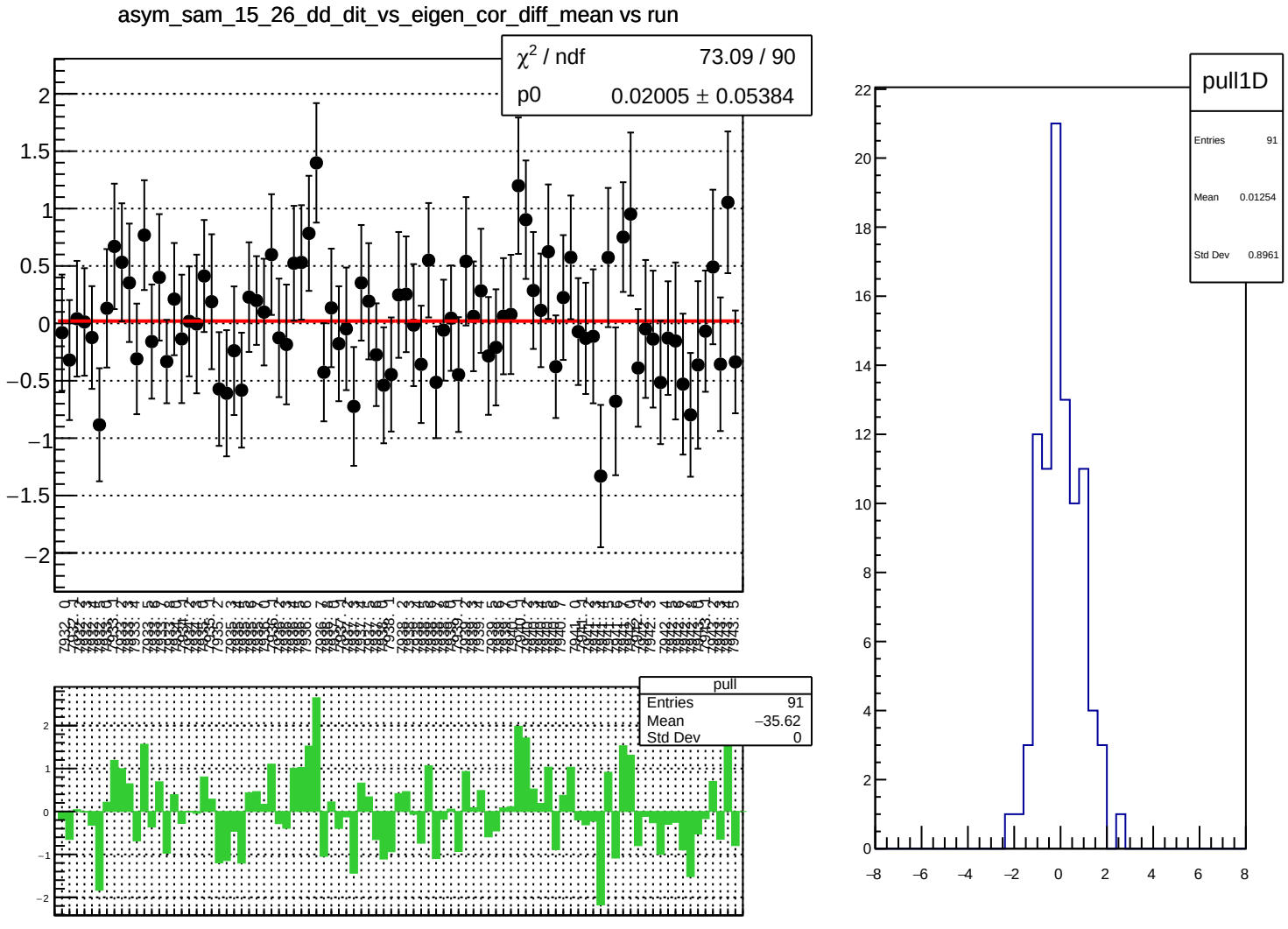

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 90
p0 7.134e−14 ± 2.319e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 91
Mean 62.58
Std Dev 32.23
2
1
0
−1
−2

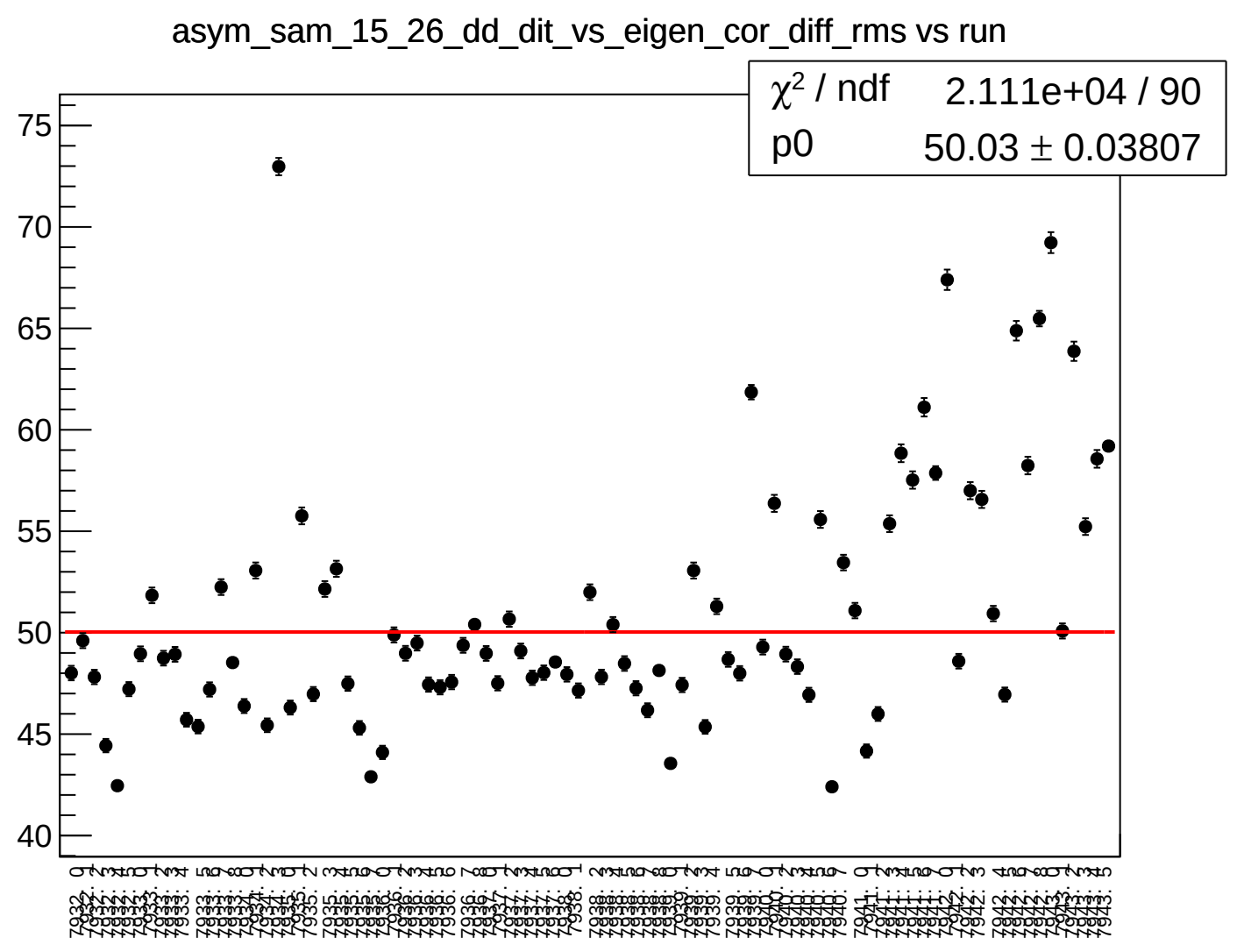

pull1D
Entries 91
Mean −0.07696
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

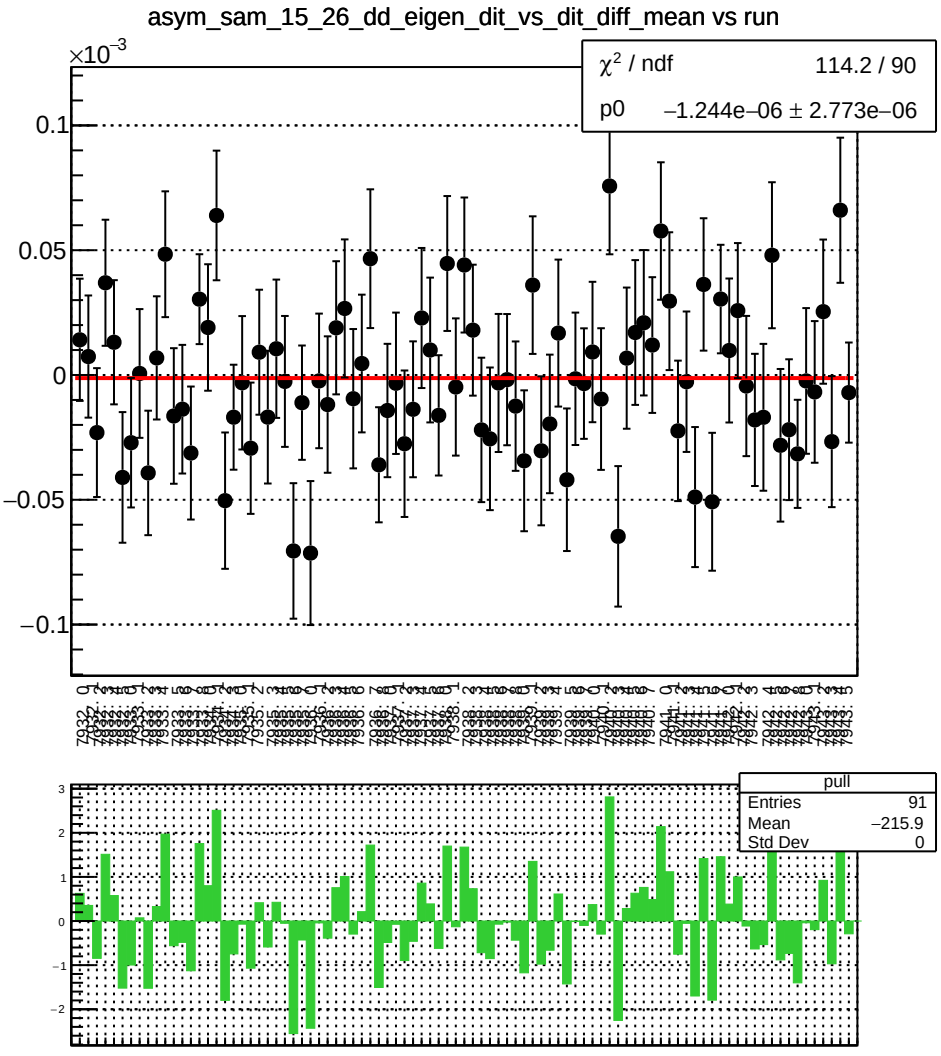

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.049e+05 / 90
p0 1.592e−10 ± 1.64e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

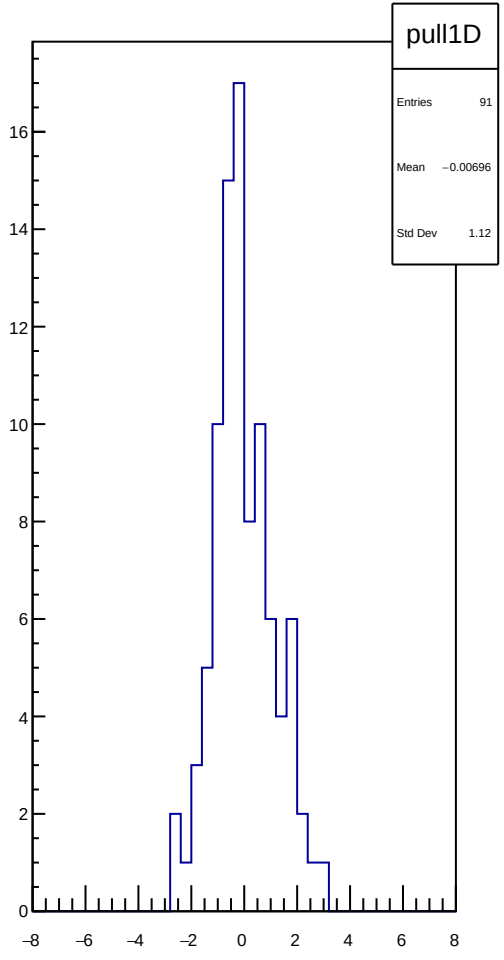

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.09 / 90
p0 0.02005 ± 0.05384
pull
Entries 91
Mean −35.62
Std Dev 0
pull1D
Entries 91
Mean 0.01254
Std Dev 0.8961

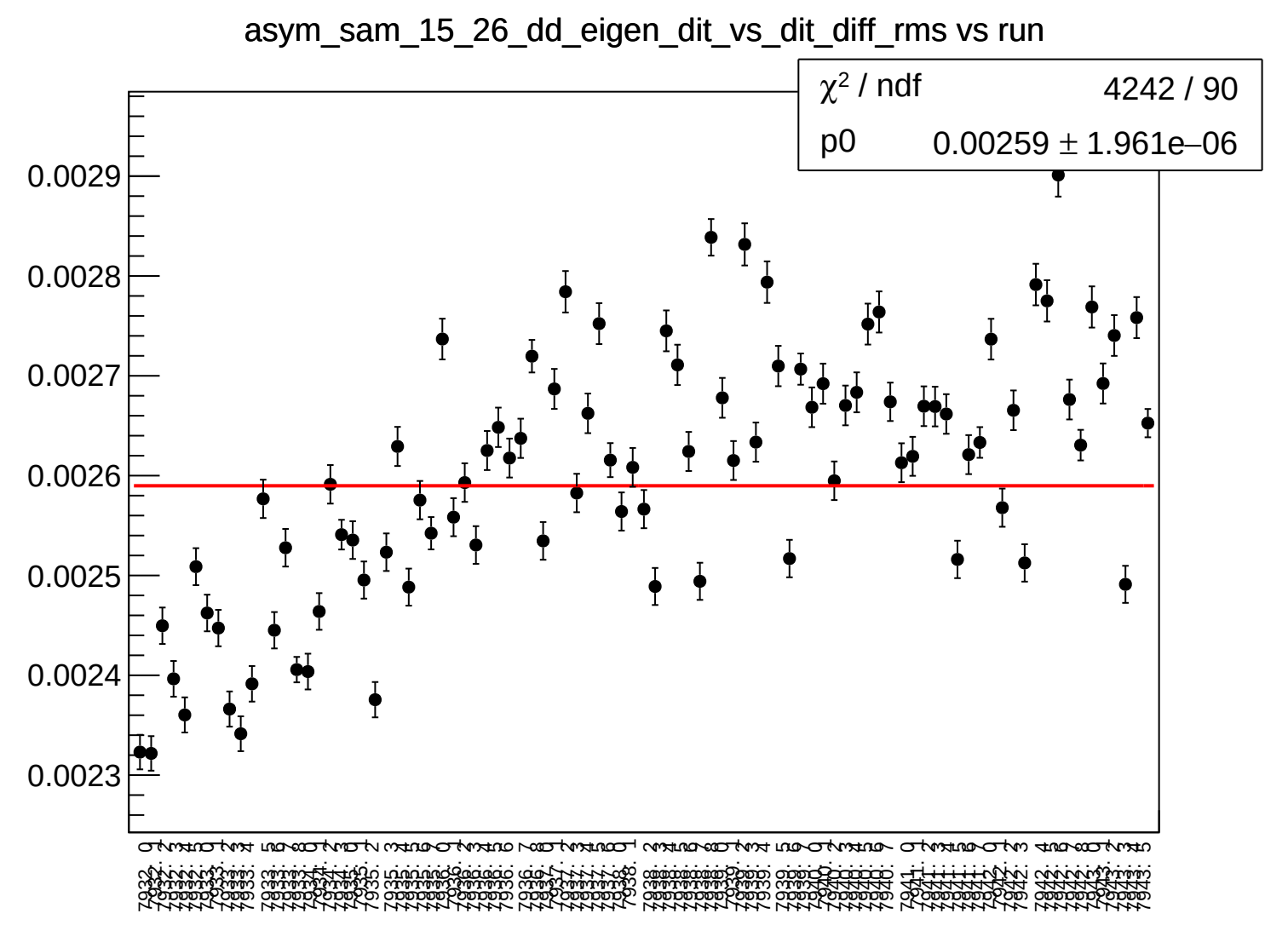

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.111e+04 / 90
p0 50.03 ± 0.03807
75
70
65
60
55
50
45
40

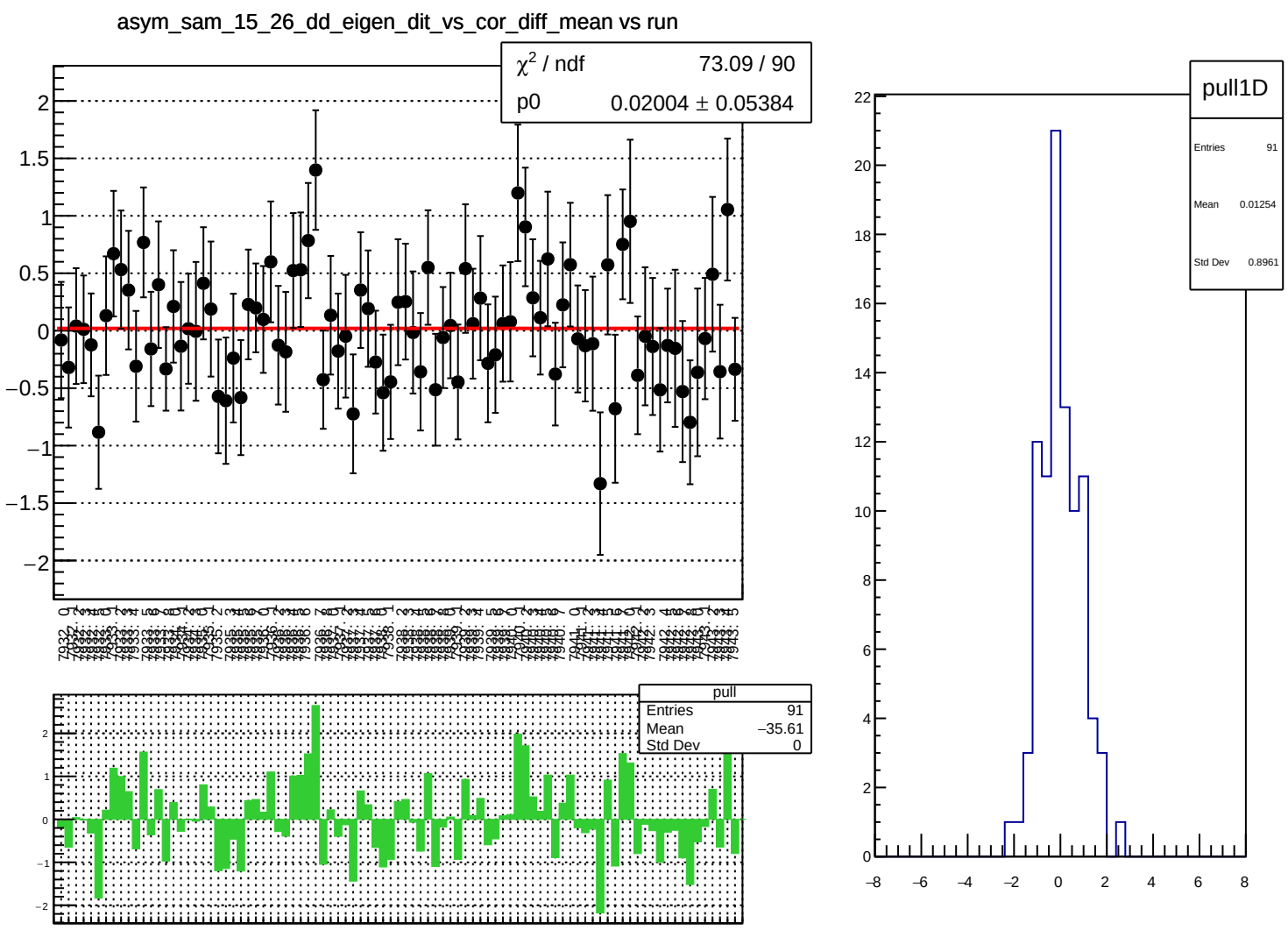

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.09 / 90
p0 0.02005 ± 0.05384
pull
Entries 91
Mean −35.62
Std Dev 0
pull1D
Entries 91
Mean 0.01254
Std Dev 0.8961

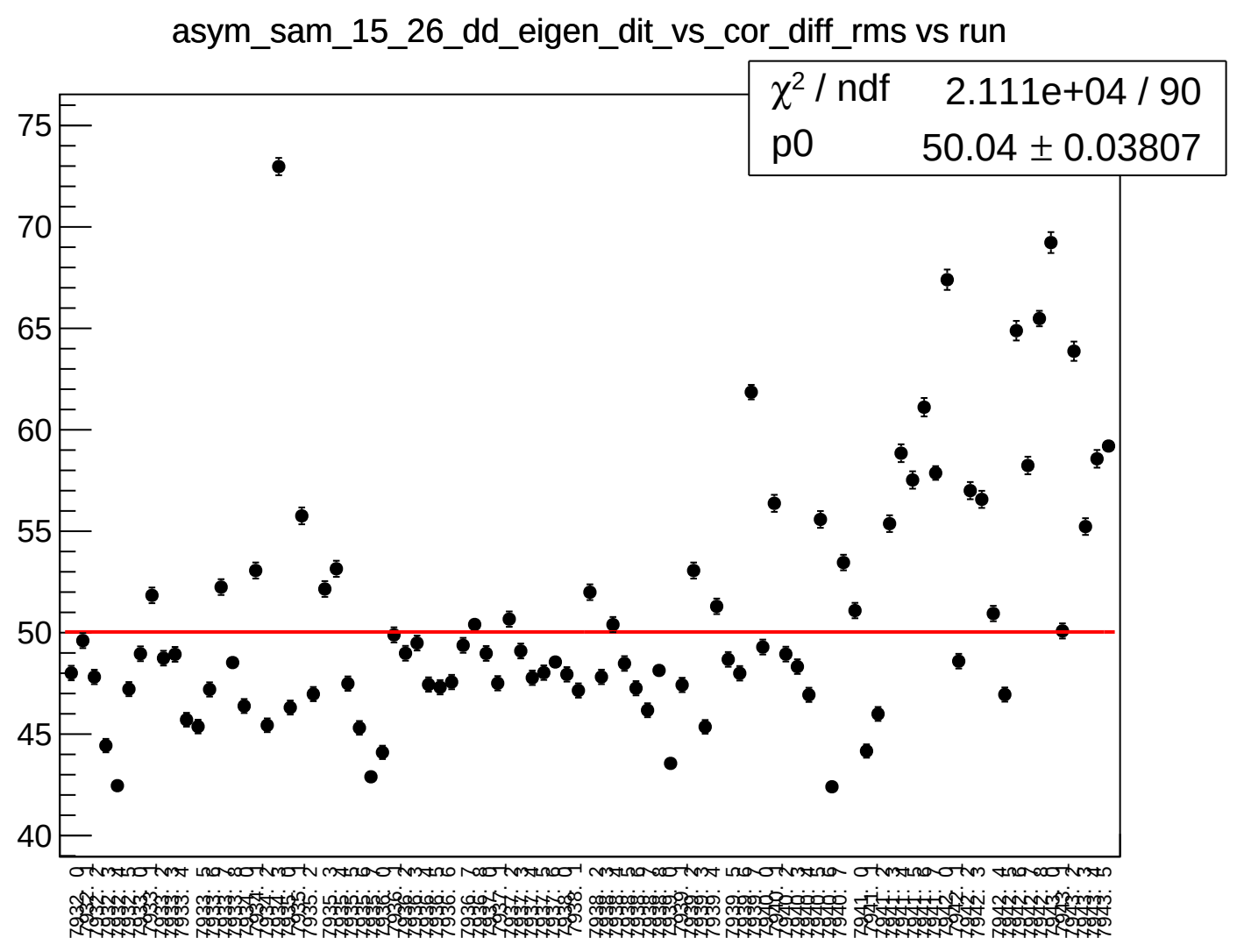

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.111e+04 / 90
p0 50.03 ± 0.03807
75
70
65
60
55
50
45
40


asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.2 / 90
p0 −1.244e−06 ± 2.773e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −215.9
Std Dev 0
3
2
1
0
−1
−2

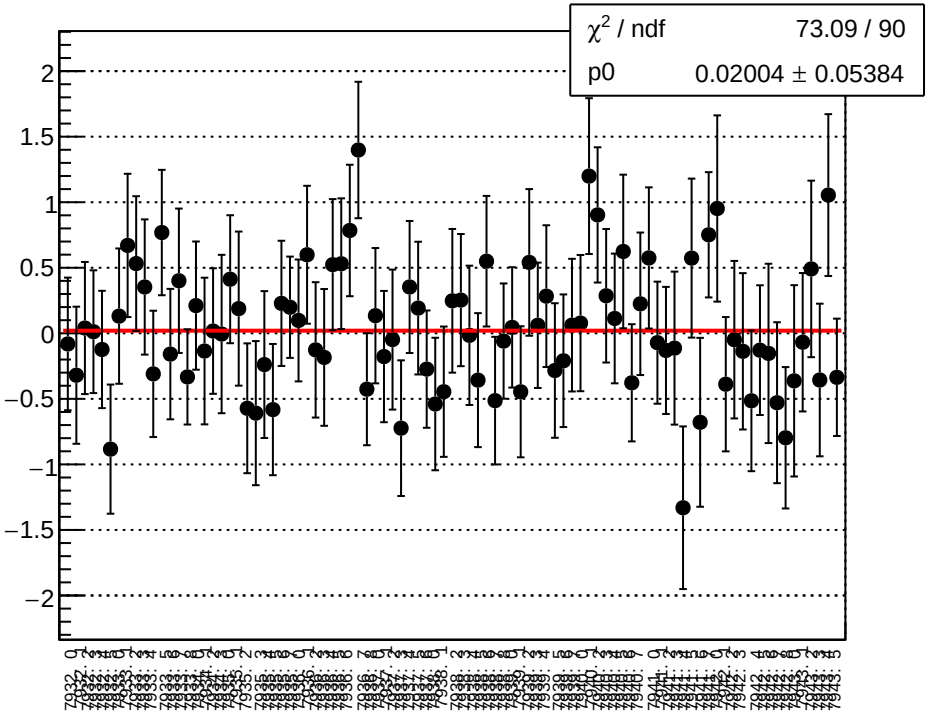

pull1D
Entries 91
Mean −0.00696
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

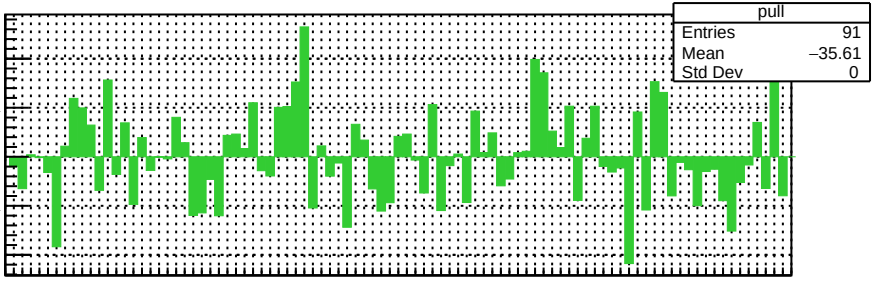

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4242 / 90
p0 0.00259 ± 1.961e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

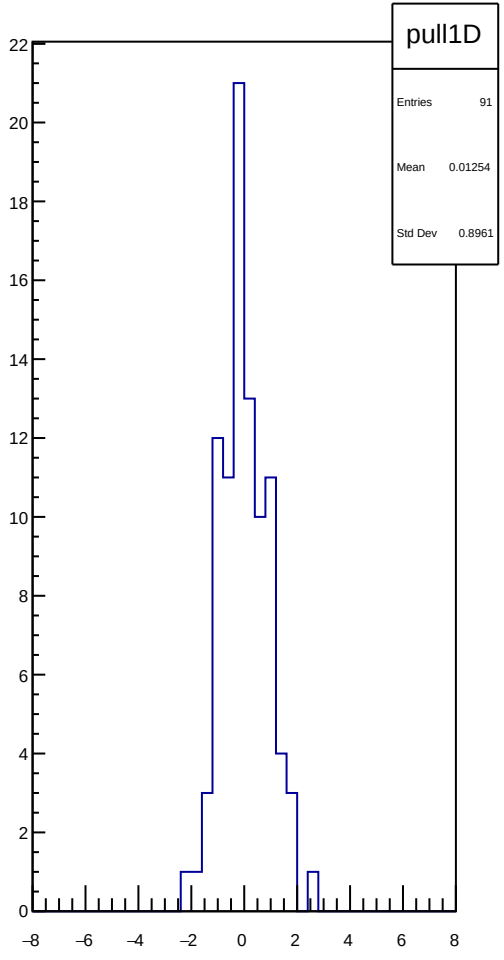

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.09 / 90
p0 0.02004 ± 0.05384
pull
Entries 91
Mean −35.61
Std Dev 0
pull1D
Entries 91
Mean 0.01254
Std Dev 0.8961

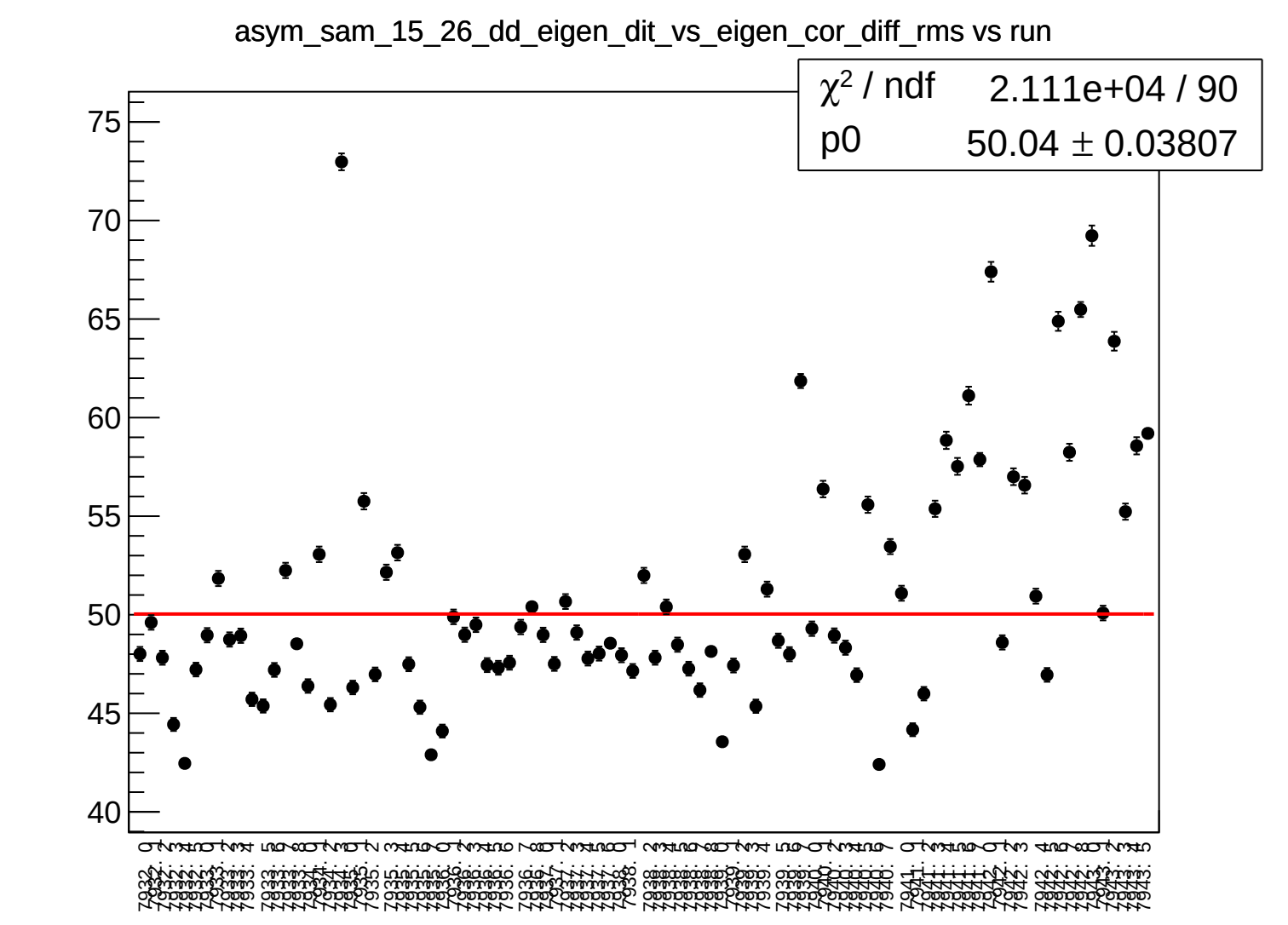

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.111e+04 / 90
p0 50.04 ± 0.03807
75
70
65
60
55
50
45
40

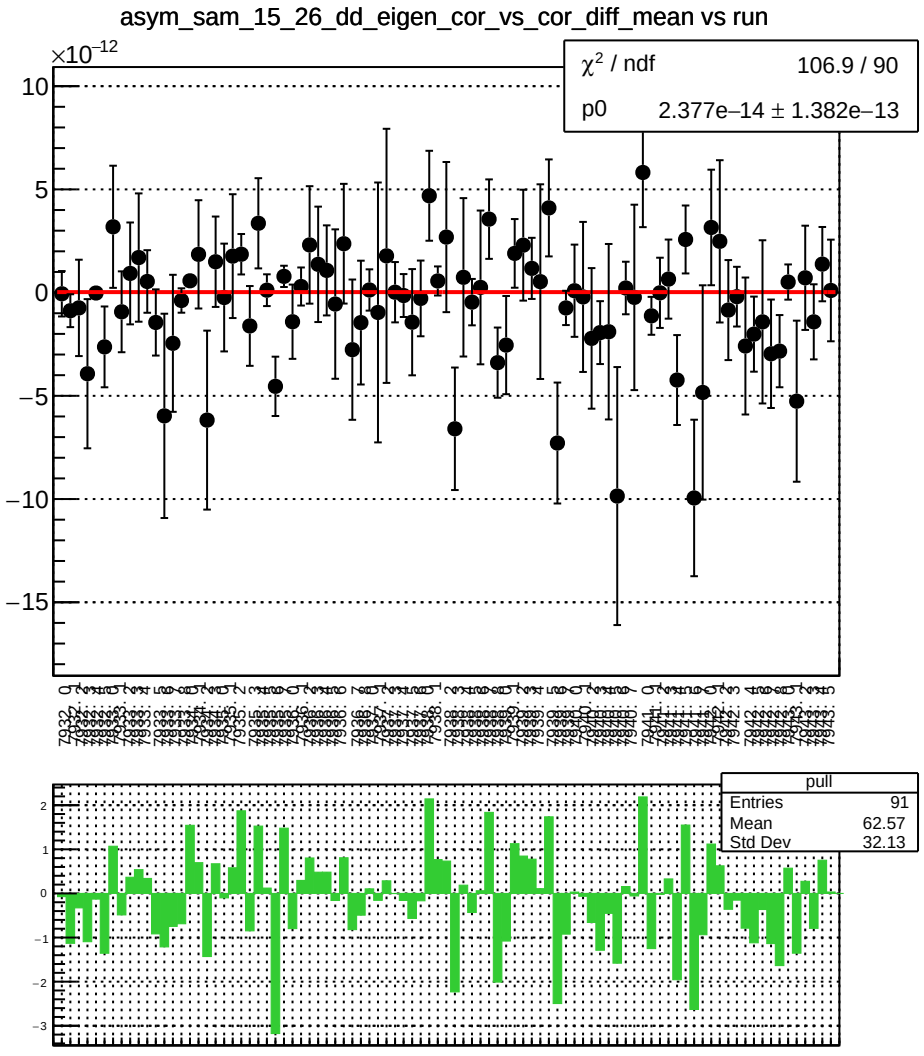
asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

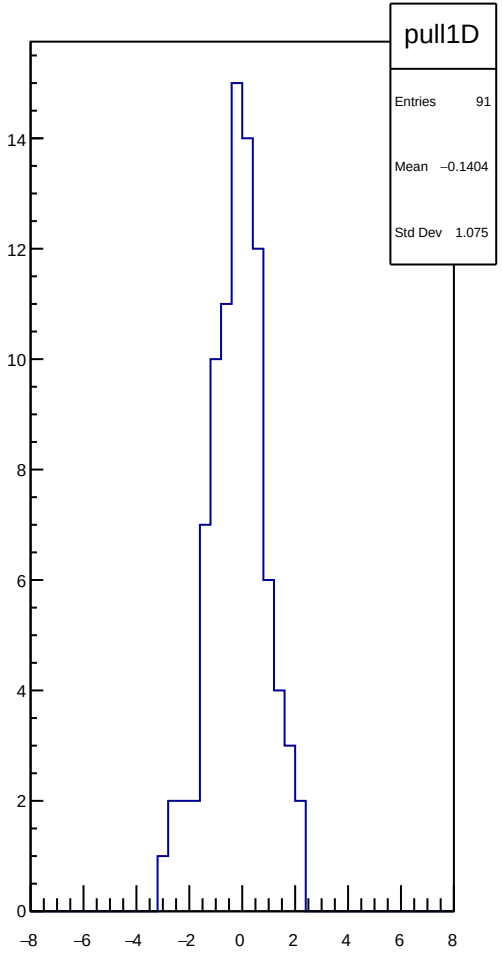


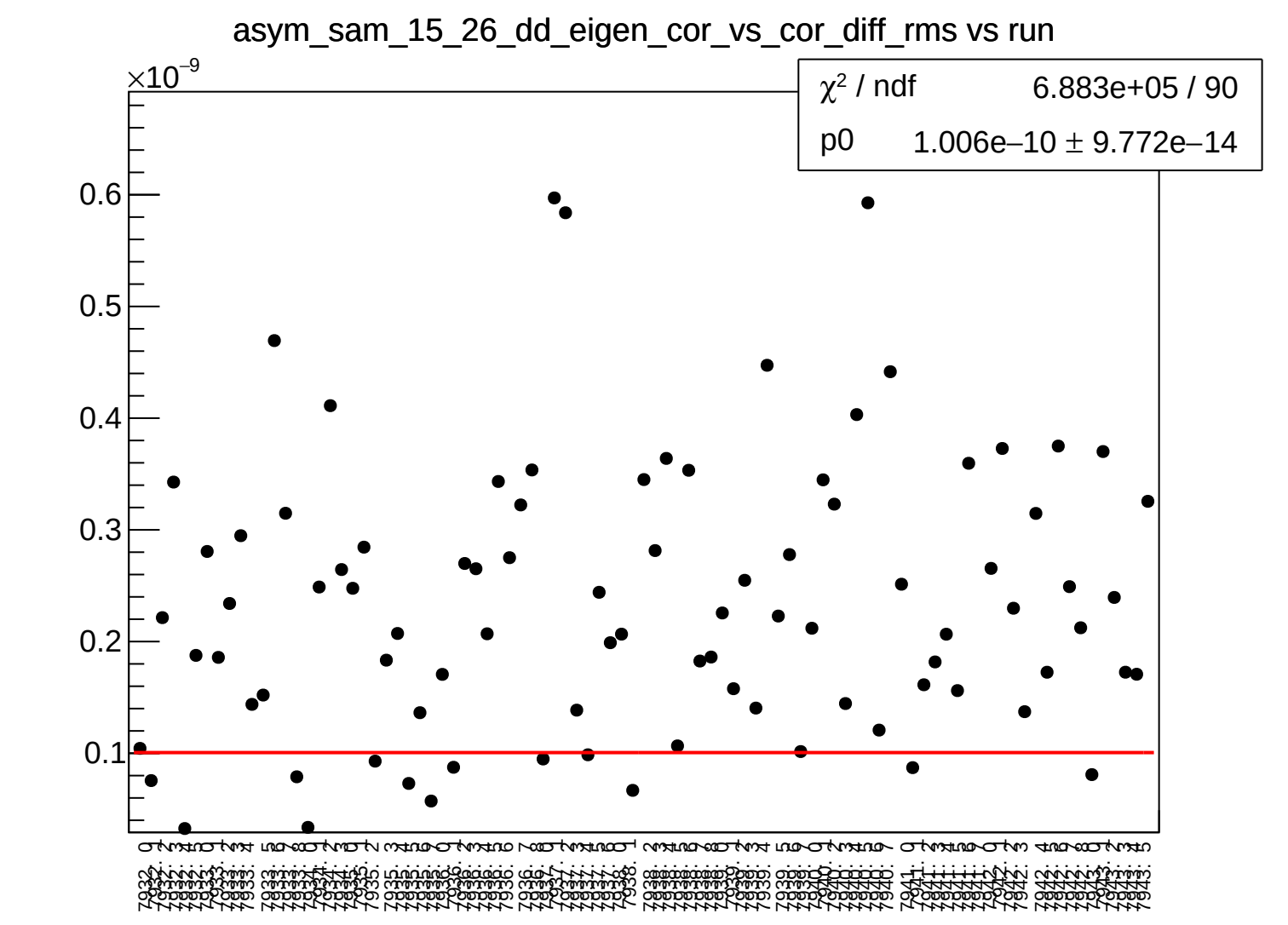


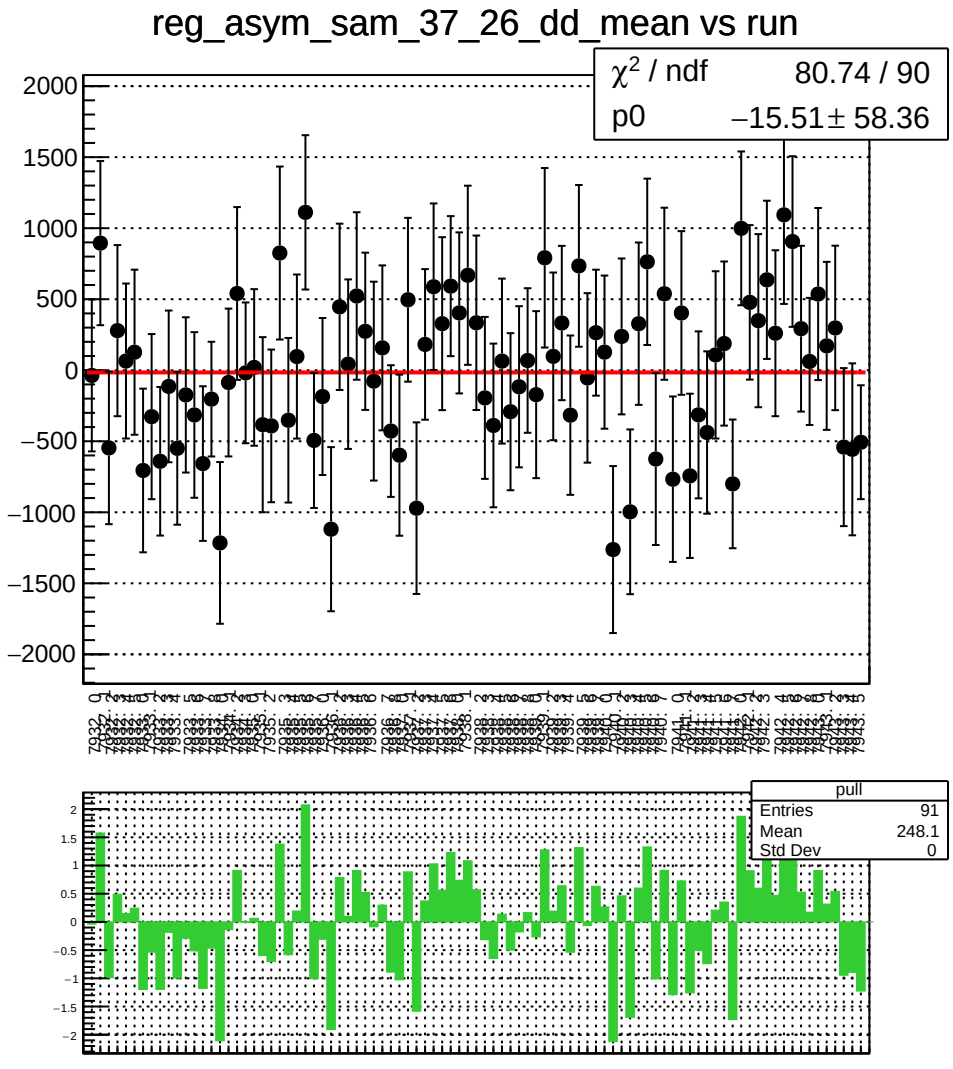


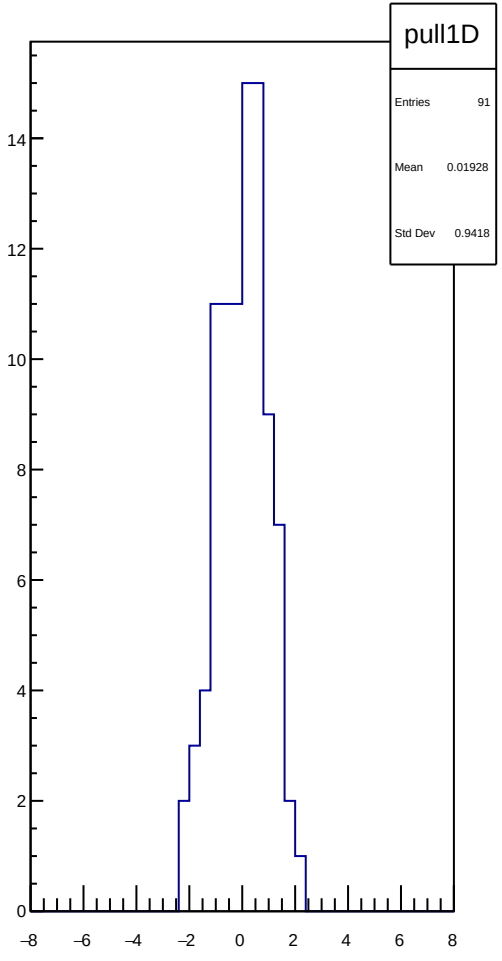

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.111e+04 / 90
p0 50.04 ± 0.03807
75
70
65
60
55
50
45
40

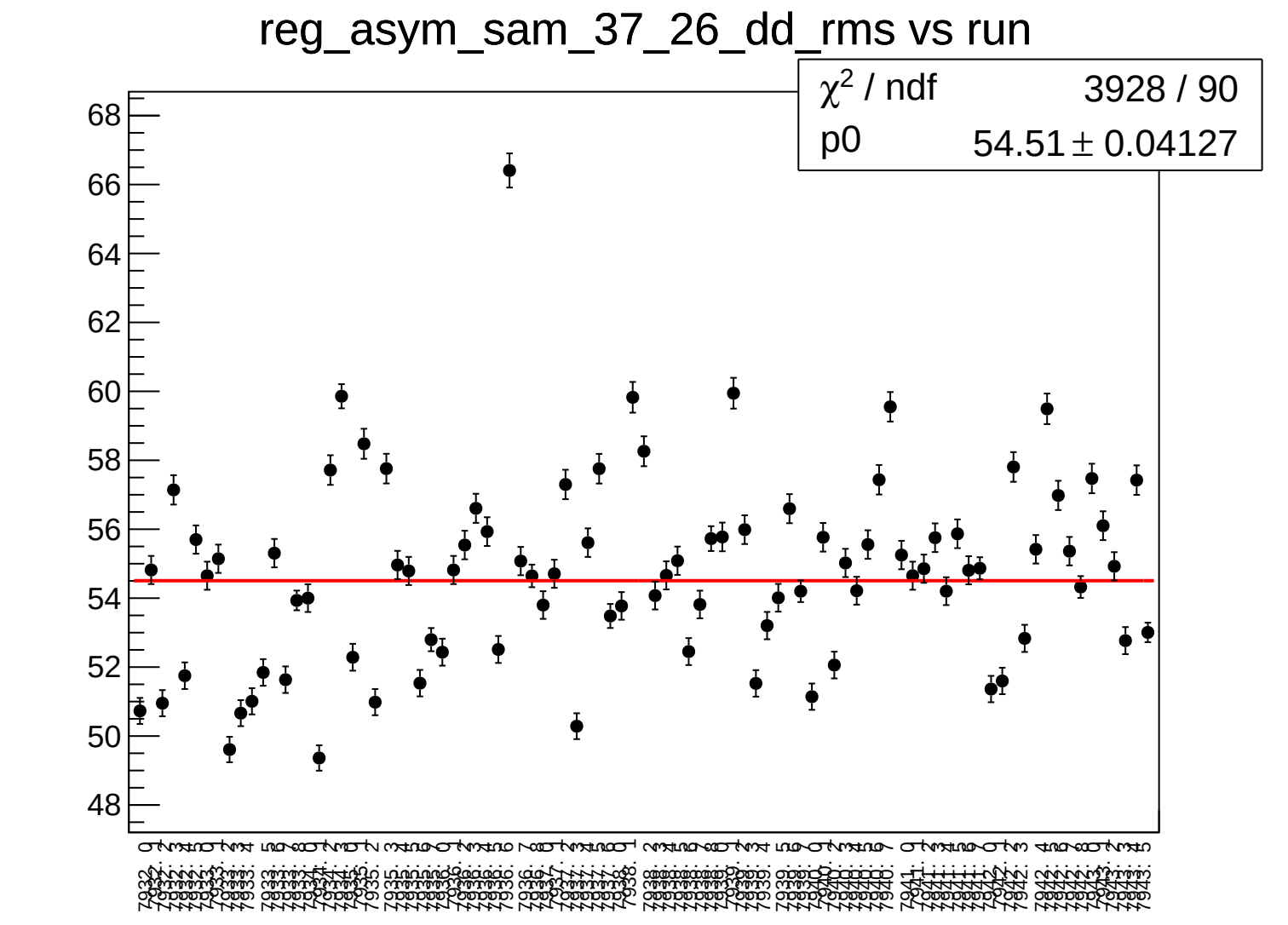

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.9 / 90
p0 2.377e−14 ± 1.382e−13
pull
Entries 91
Mean 62.57
Std Dev 32.13

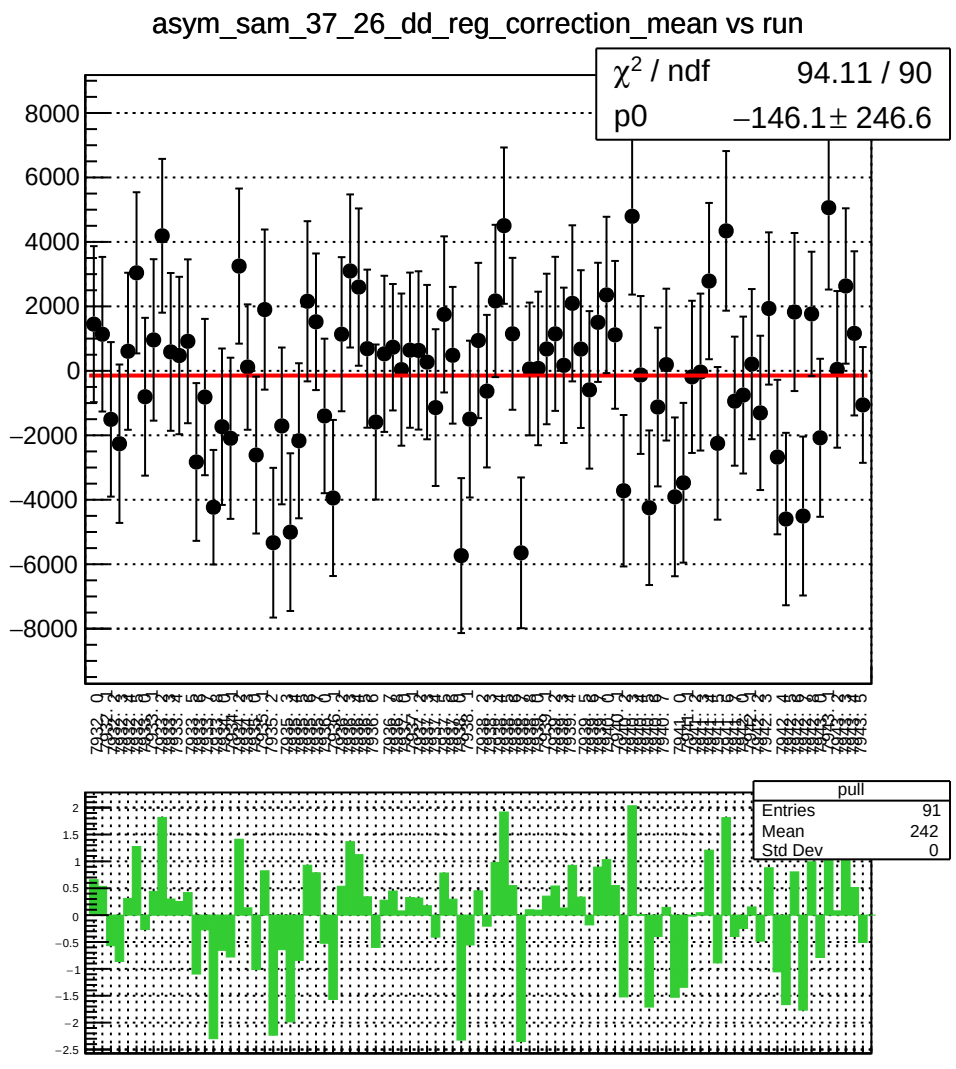

pull1D
Entries 91
Mean −0.1404
Std Dev 1.075

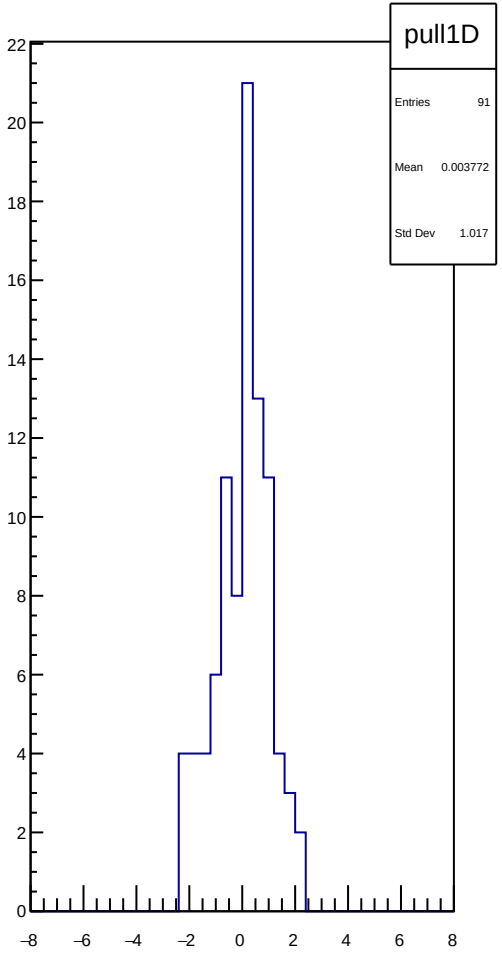

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.883e+05 / 90
p0 1.006e−10 ± 9.772e−14
0.6
0.5
0.4
0.3
0.2
0.1

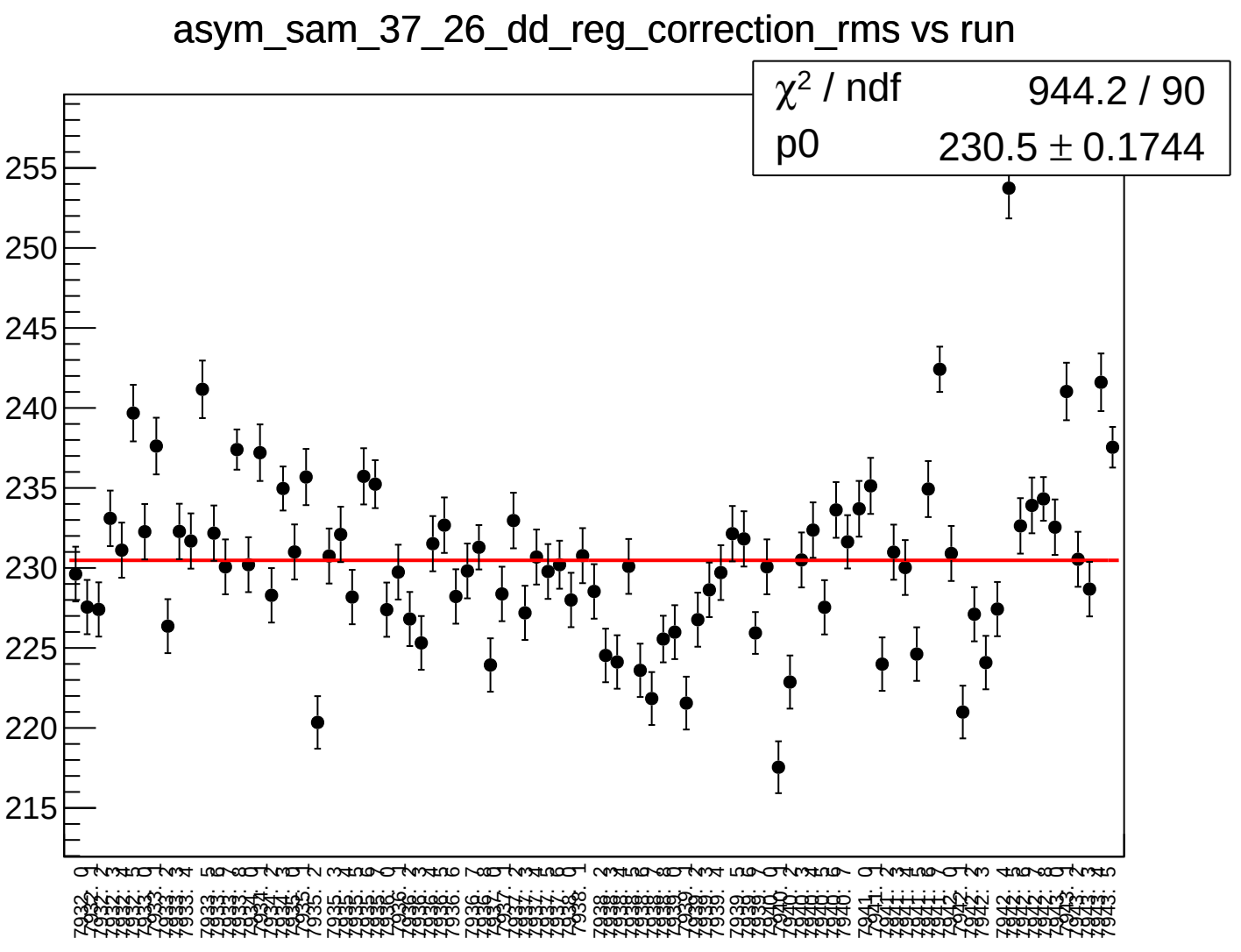

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.74 / 90
p0 −15.51 ± 58.36
pull
Entries 91
Mean 248.1
Std Dev 0

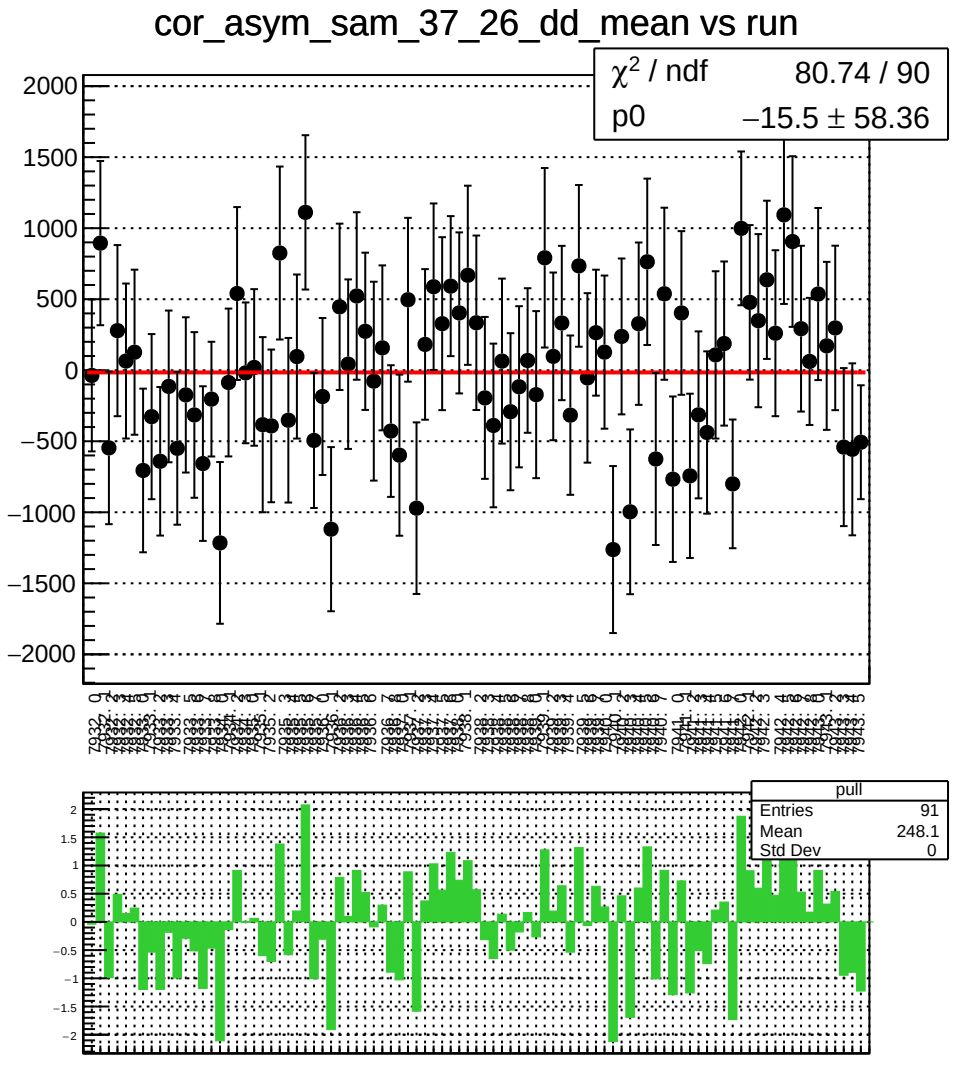

pull1D
Entries 91
Mean 0.01928
Std Dev 0.9418

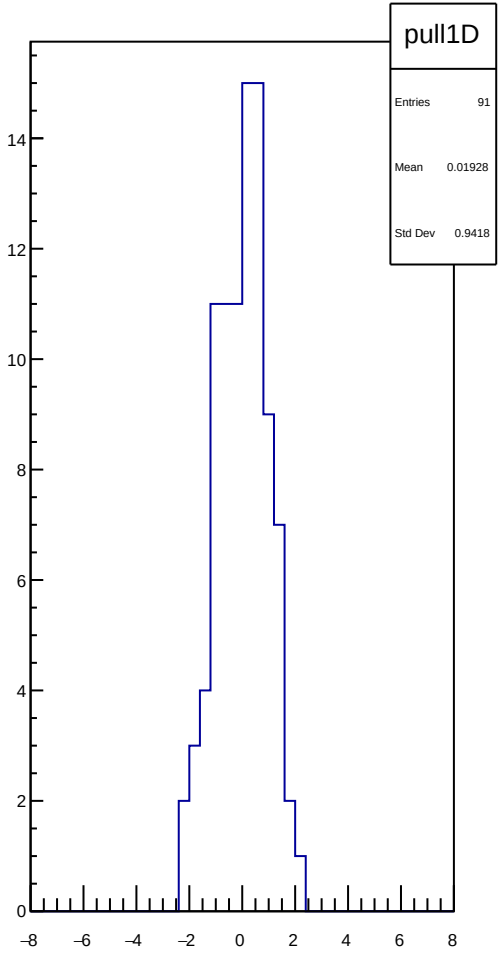

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3928 / 90
p0 54.51 ± 0.04127
68
66
64
62
60
58
56
54
52
50
48

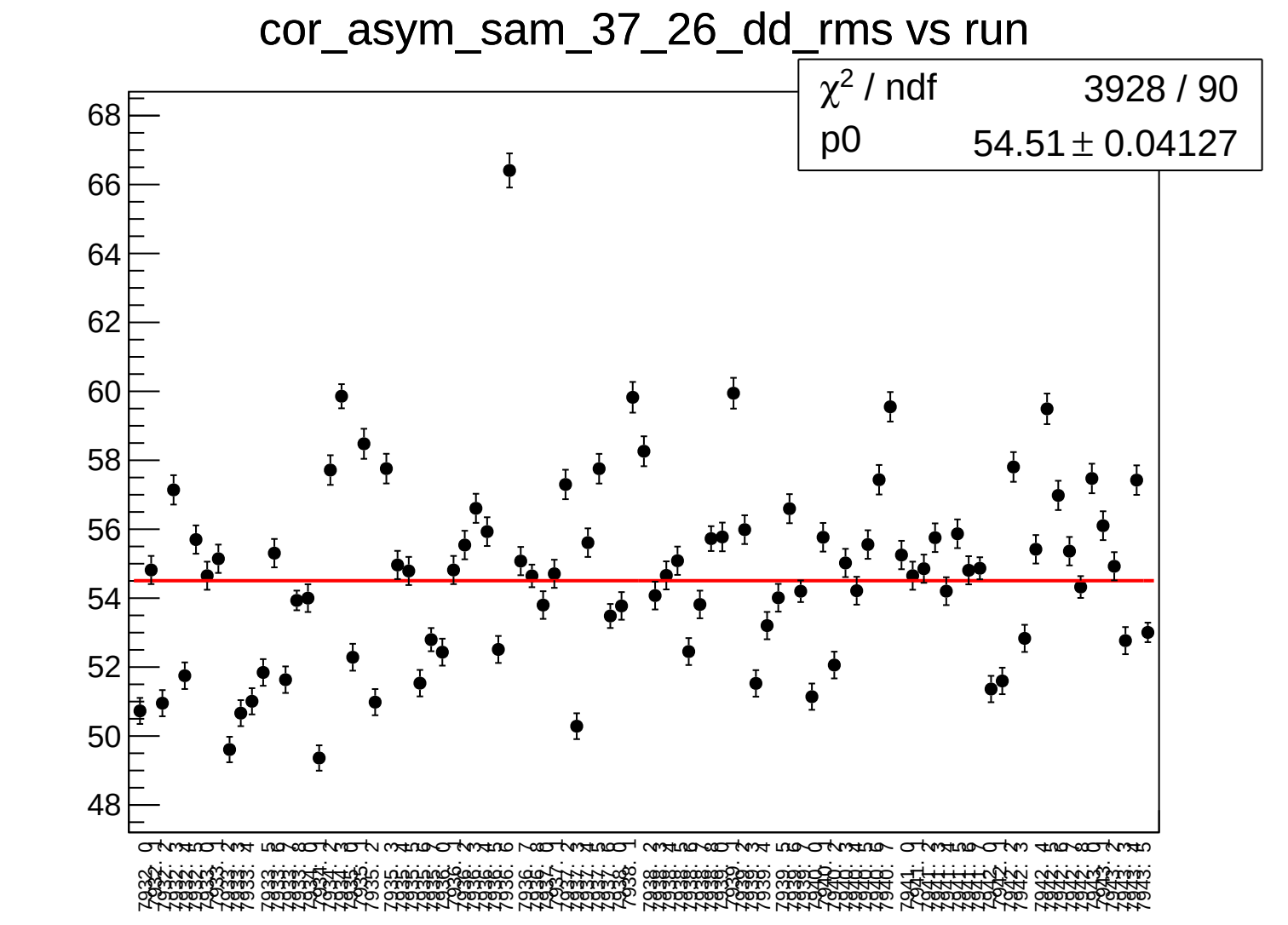

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 94.11 / 90
p0 −146.1± 246.6
pull
Entries 91
Mean 242
Std Dev 0

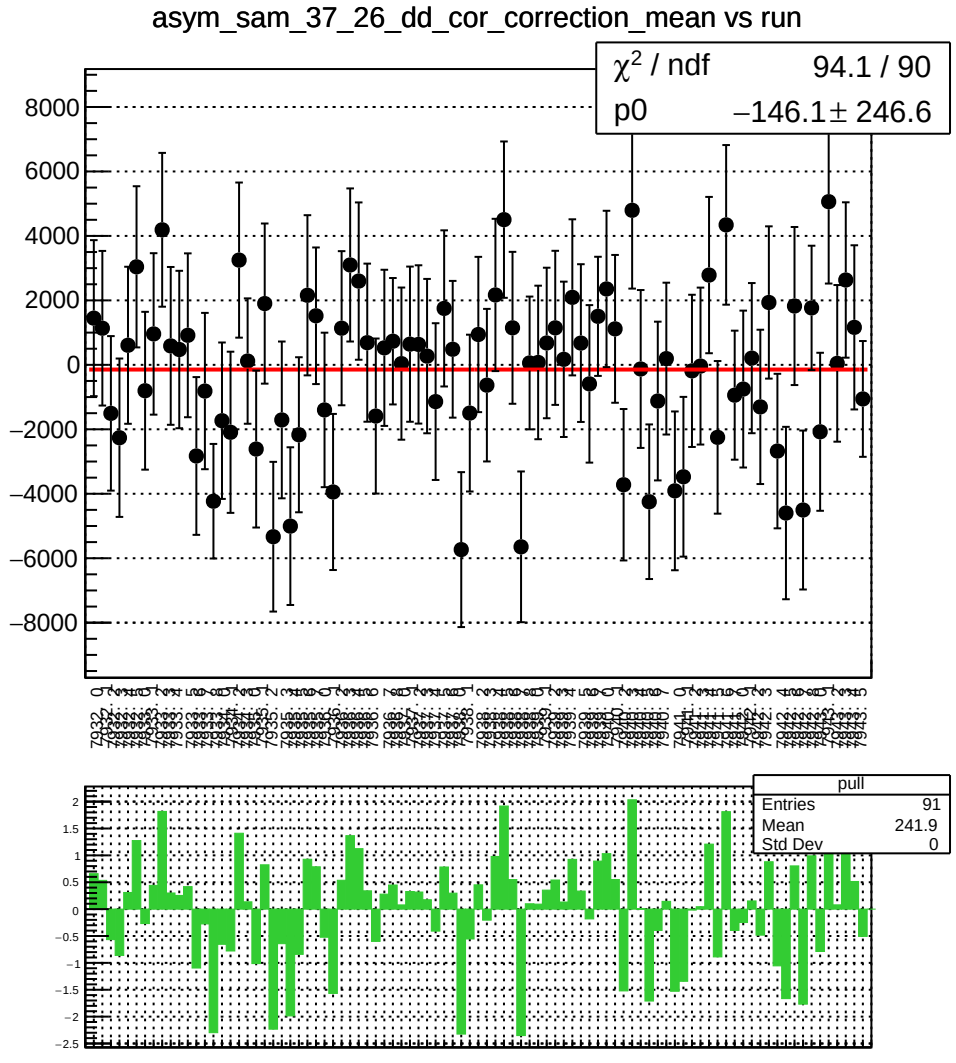

pull1D
Entries 91
Mean 0.003772
Std Dev 1.017

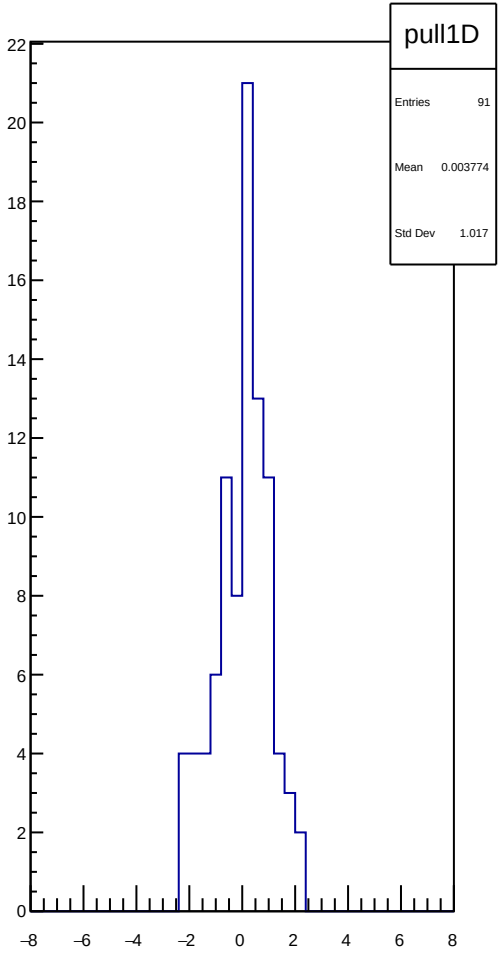

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 944.2 / 90
p0 230.5 ± 0.1744
255
250
245
240
235
230
225
220
215

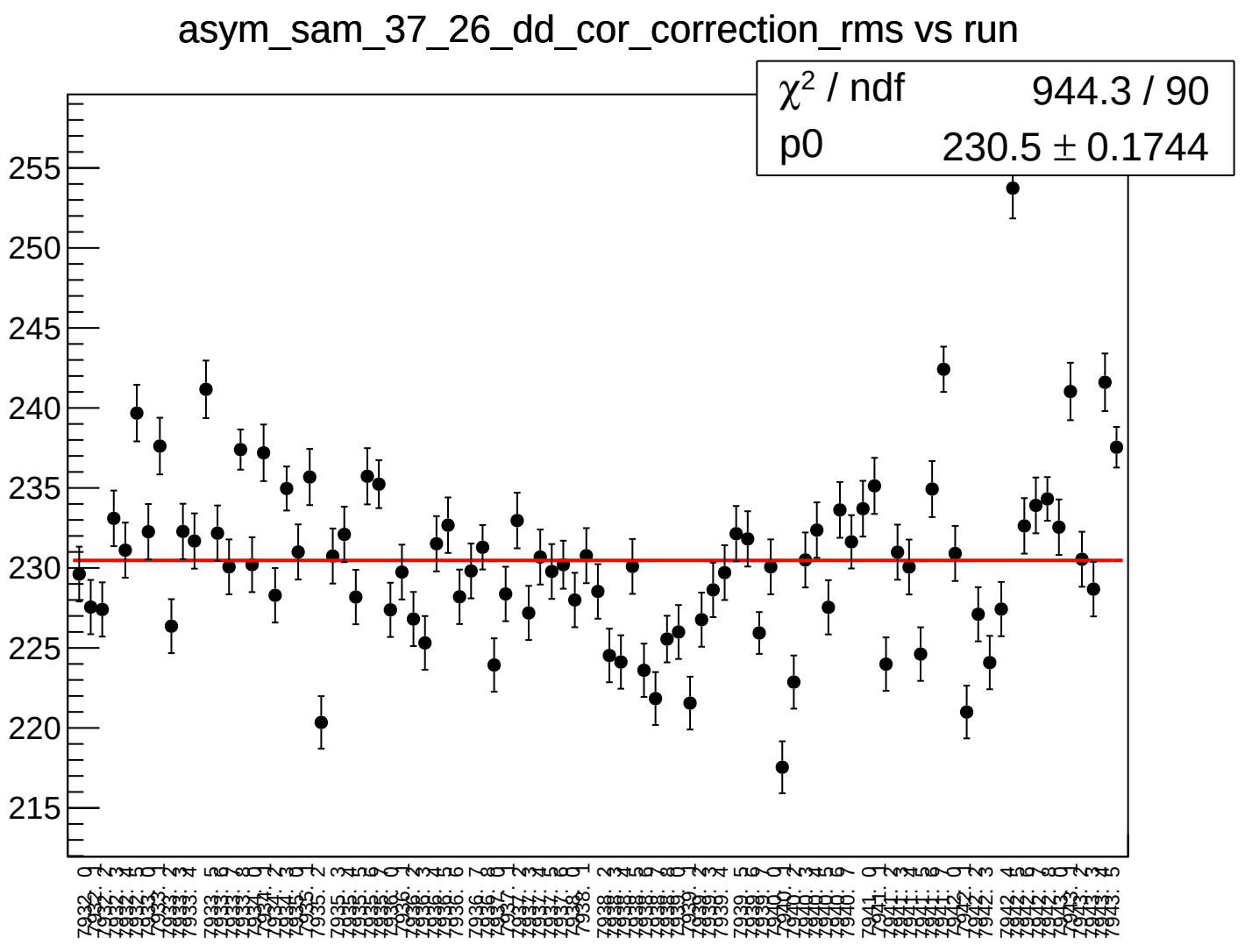

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.74 / 90
p0 −15.5 ± 58.36
pull
Entries 91
Mean 248.1
Std Dev 0

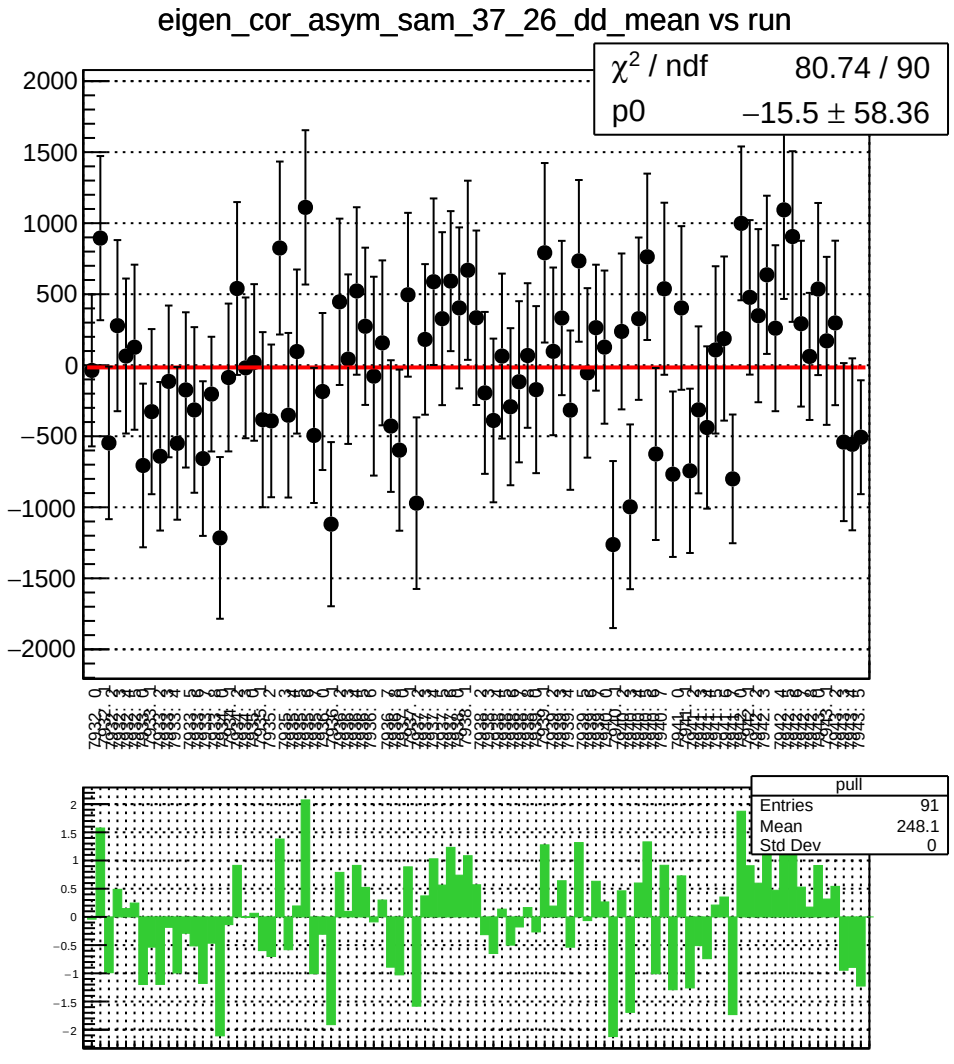

pull1D
Entries 91
Mean 0.01928
Std Dev 0.9418

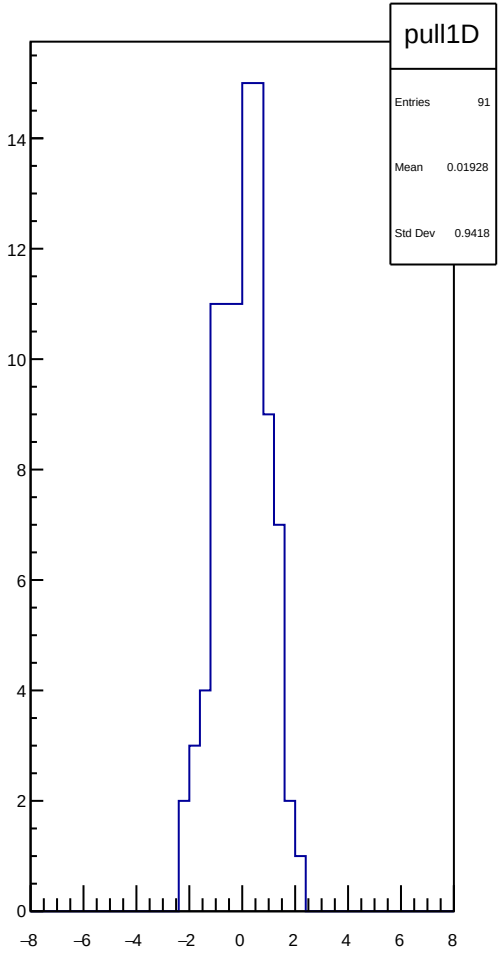

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3928 / 90
p0 54.51 ± 0.04127
68
66
64
62
60
58
56
54
52
50
48

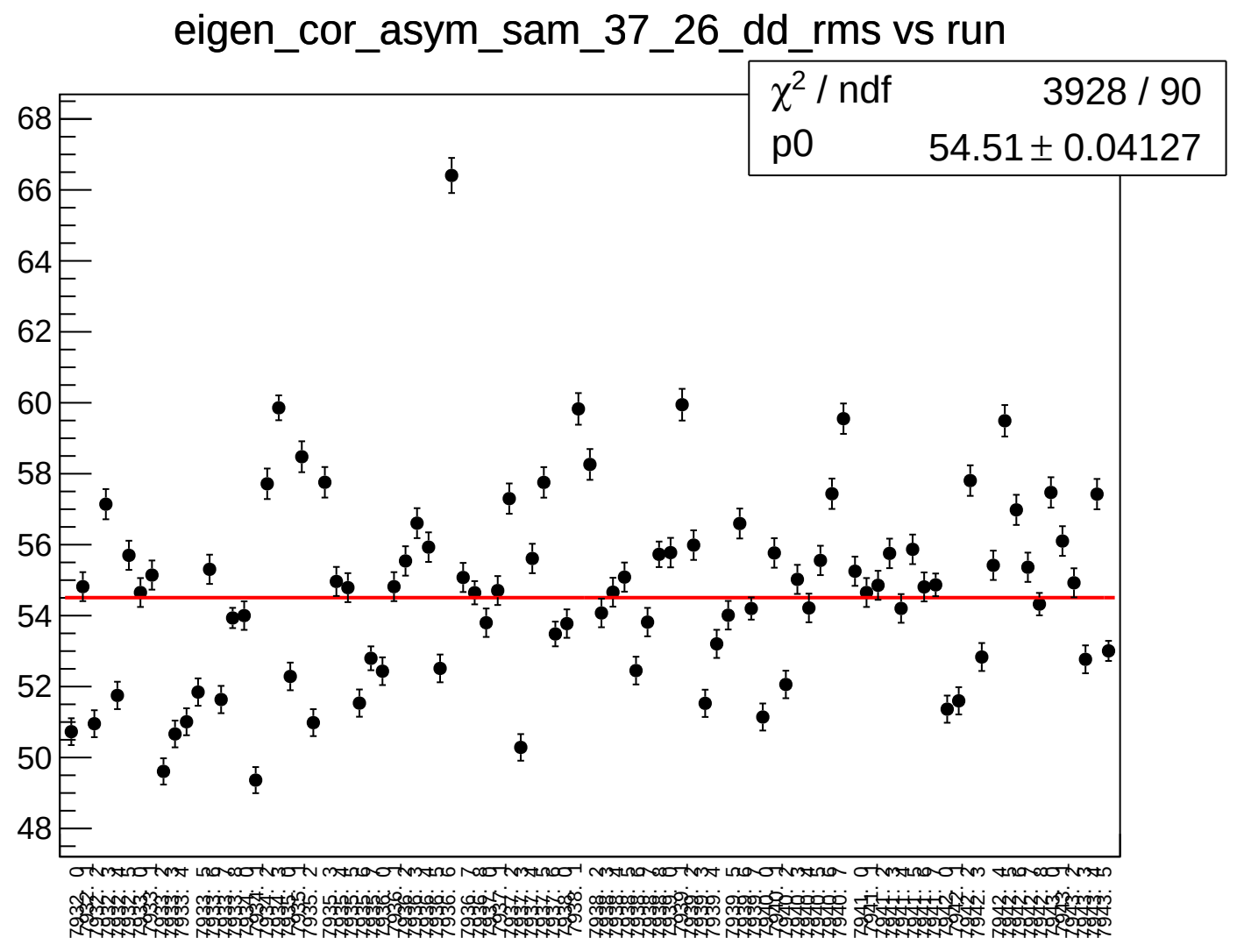

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 94.1 / 90
p0 −146.1± 246.6
pull
Entries 91
Mean 241.9
Std Dev 0

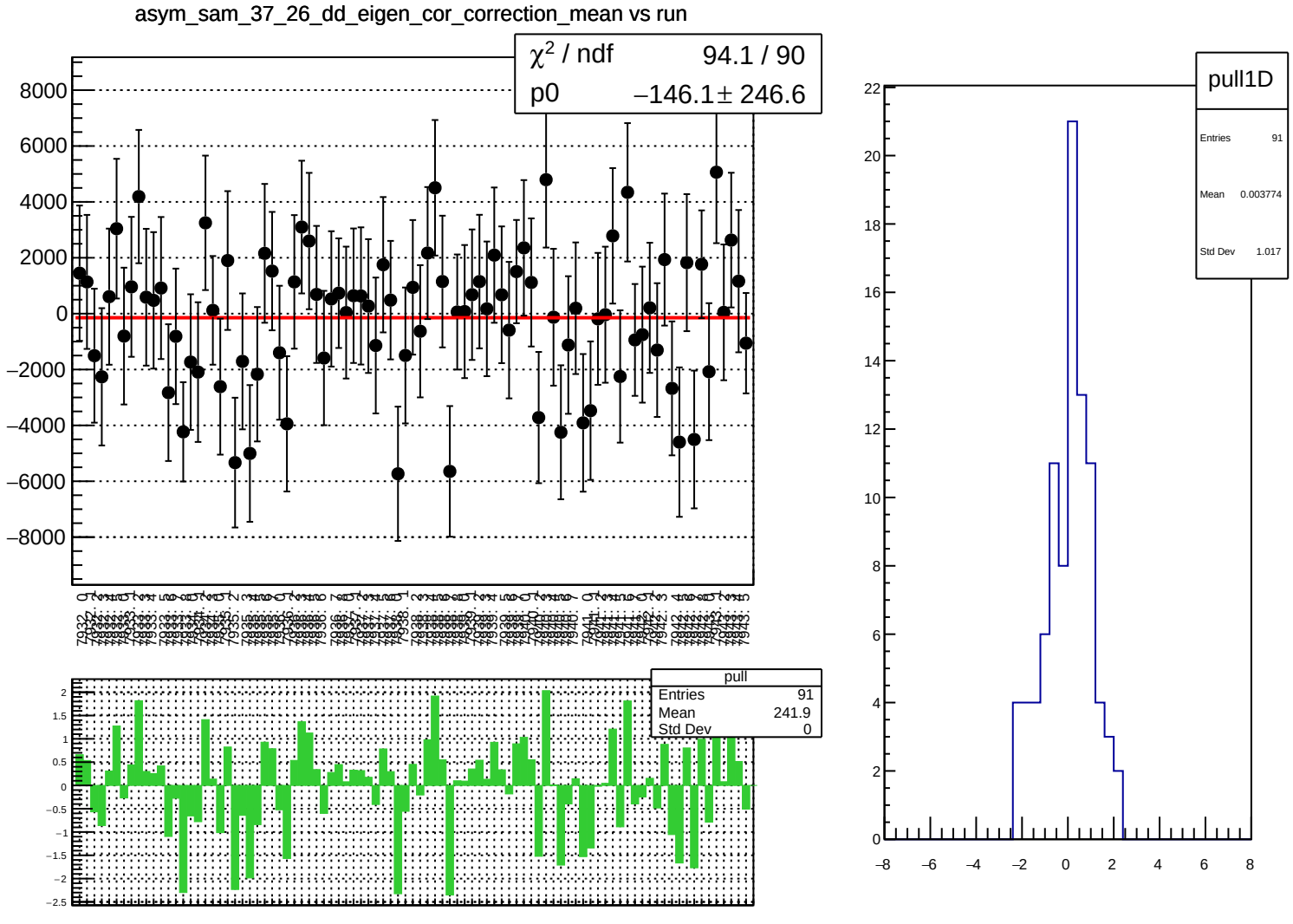

pull1D
Entries 91
Mean 0.003774
Std Dev 1.017

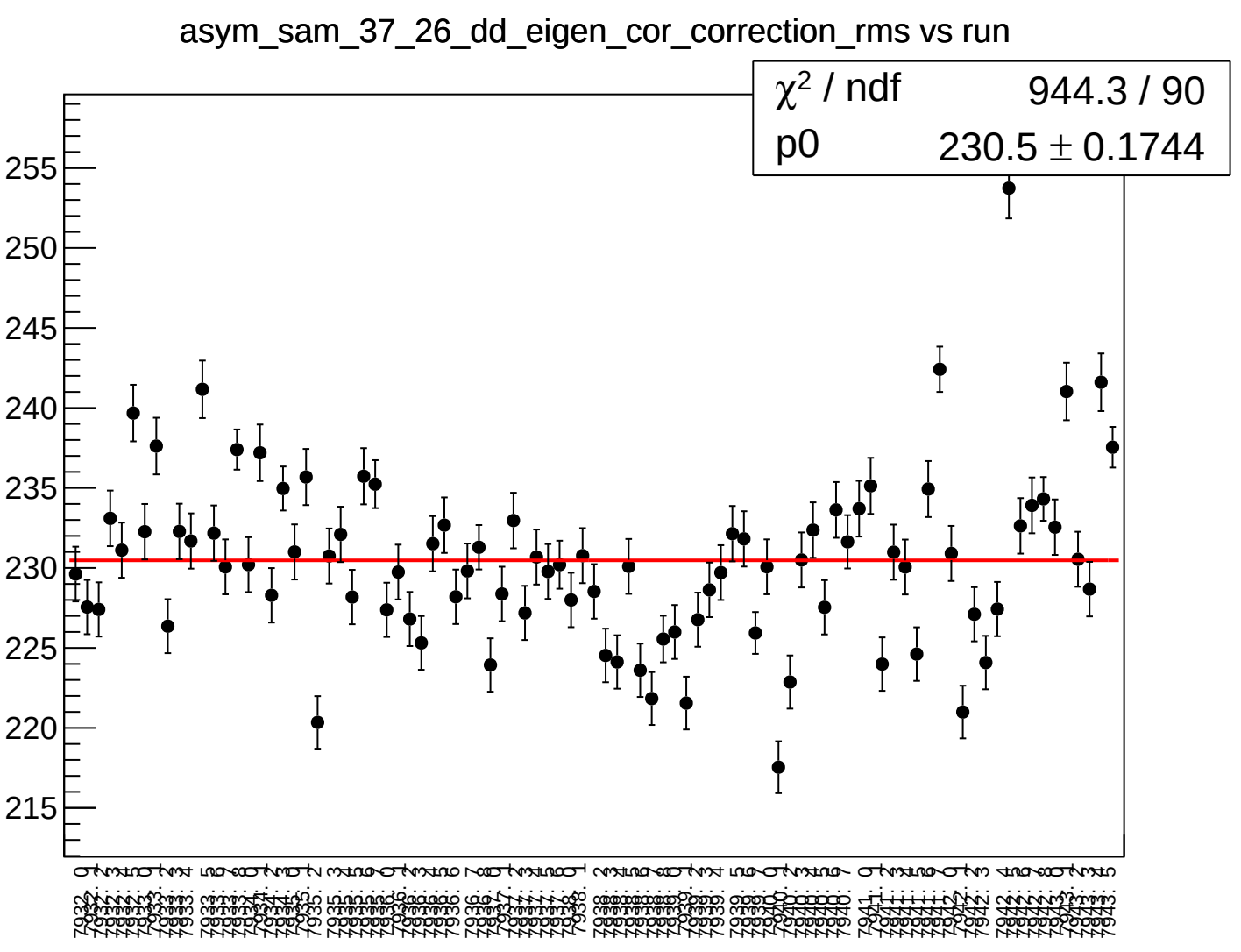

asym_sam_37_26_dd_cor_correction_rms vs run
χ^2 / ndf 944.3 / 90
p0 230.5 ± 0.1744
255
250
245
240
235
230
225
220
215

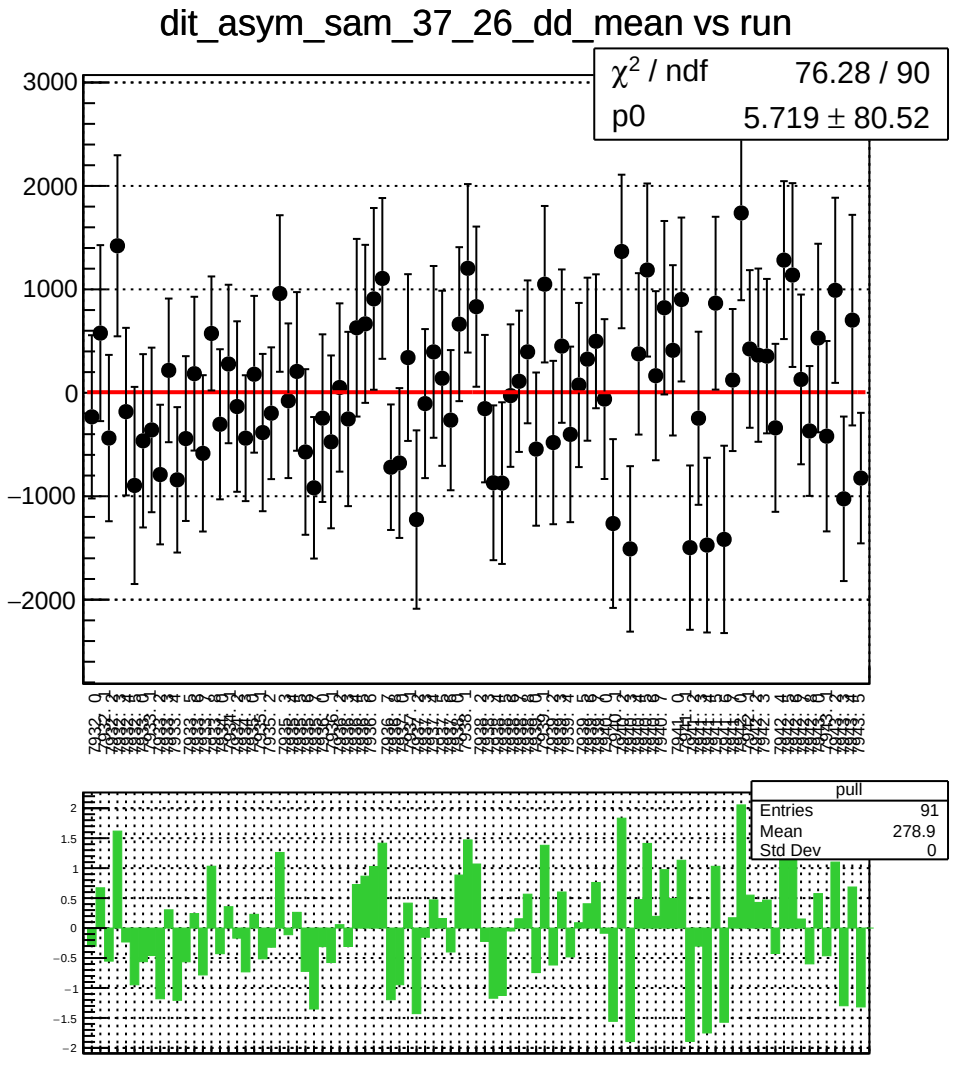

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.74 / 90
p0 −15.5 ± 58.36
pull
Entries 91
Mean 248.1
Std Dev 0

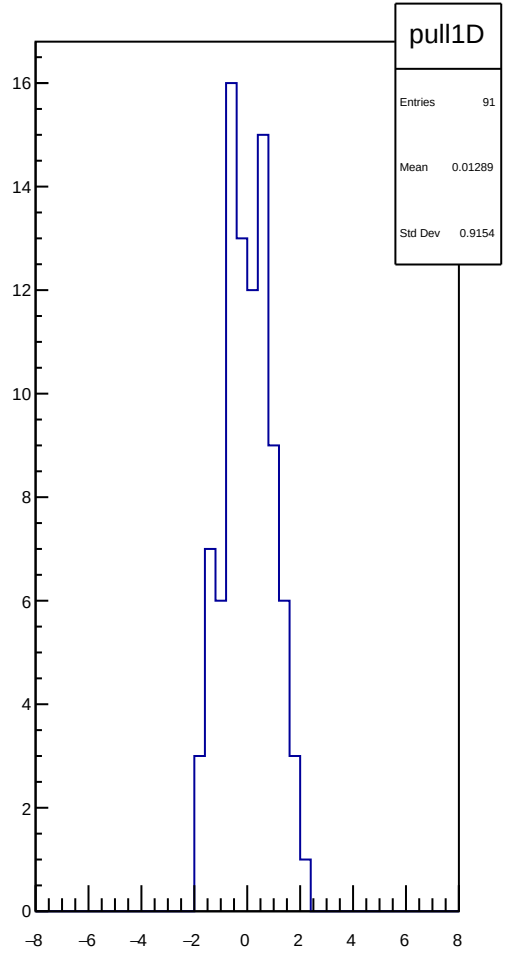

pull1D
Entries 91
Mean 0.01928
Std Dev 0.9418

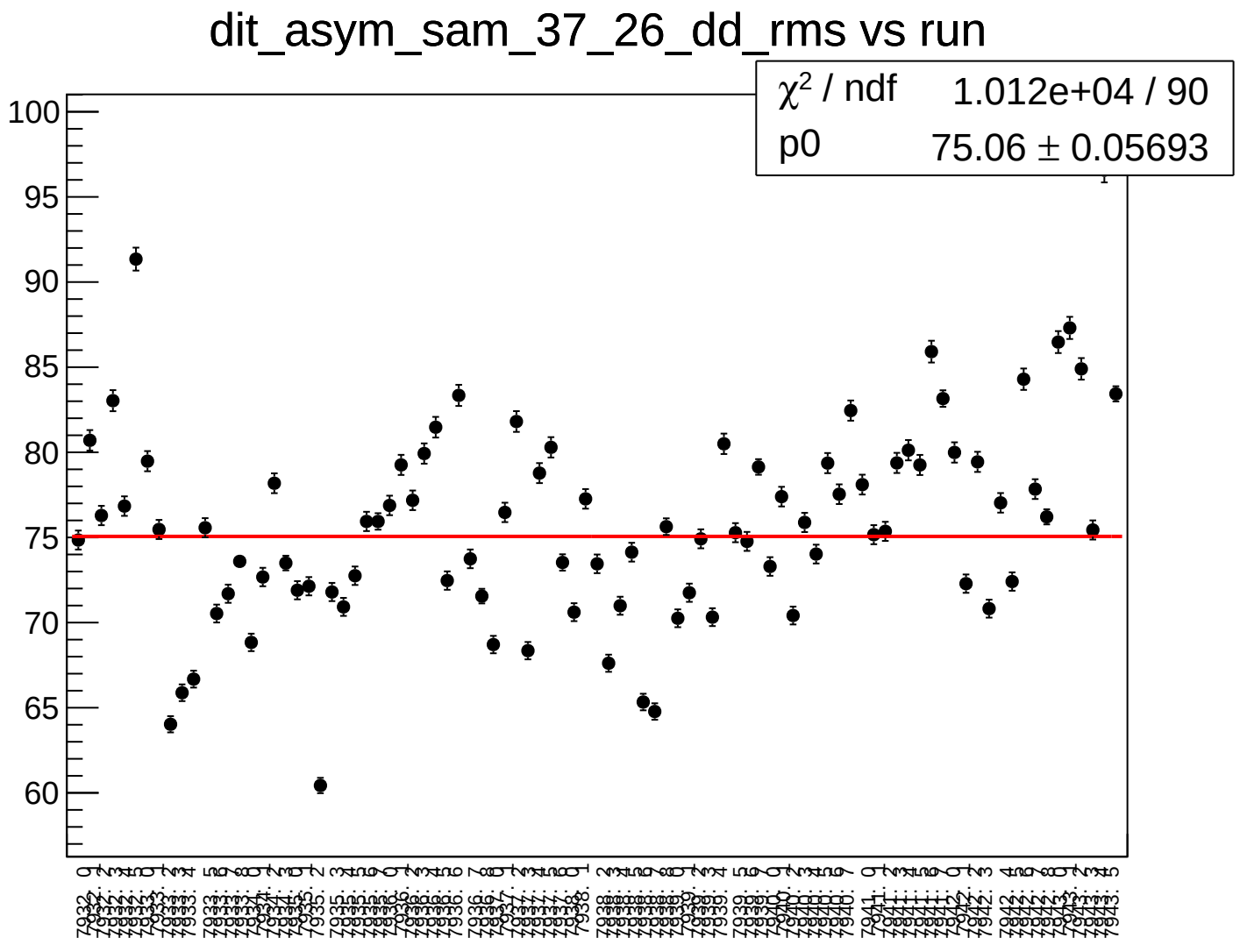

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3928 / 90
p0 54.51 ± 0.04127
68
66
64
62
60
58
56
54
52
50
48

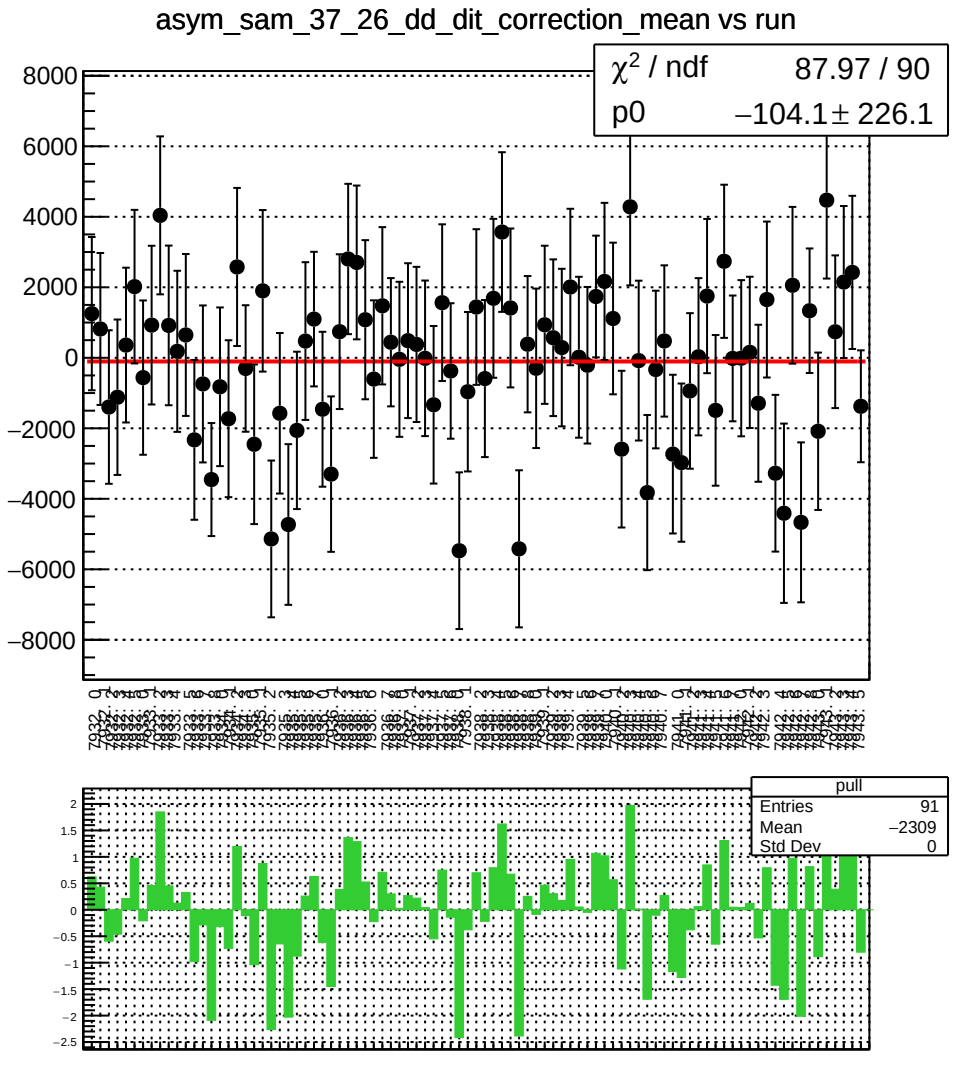

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.1 / 90
p0 −146.1± 246.6
pull
Entries 91
Mean 241.9
Std Dev 0
pull1D
Entries 91
Mean 0.003774
Std Dev 1.017

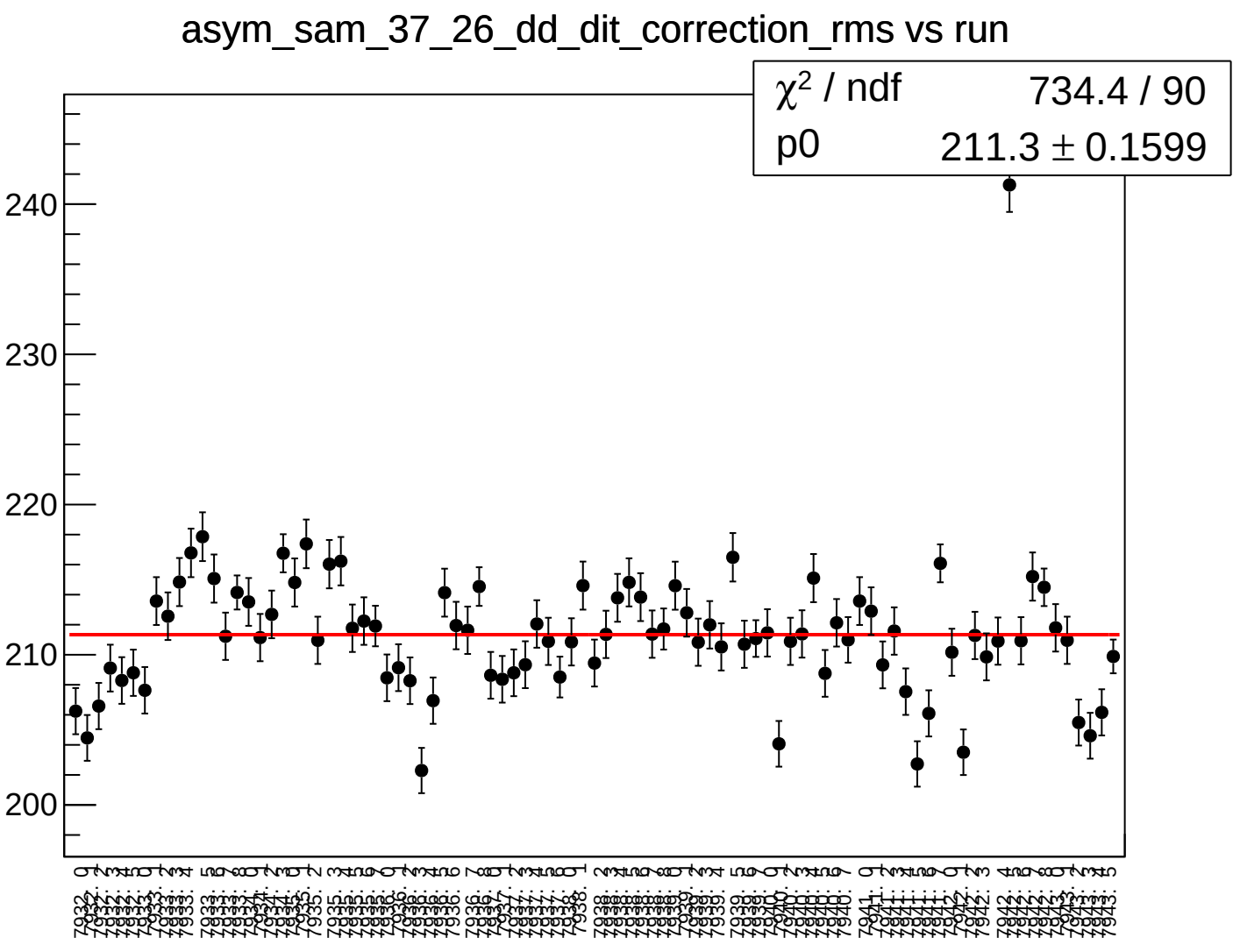

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 944.3 / 90
p0 230.5 ± 0.1744
255
250
245
240
235
230
225
220
215

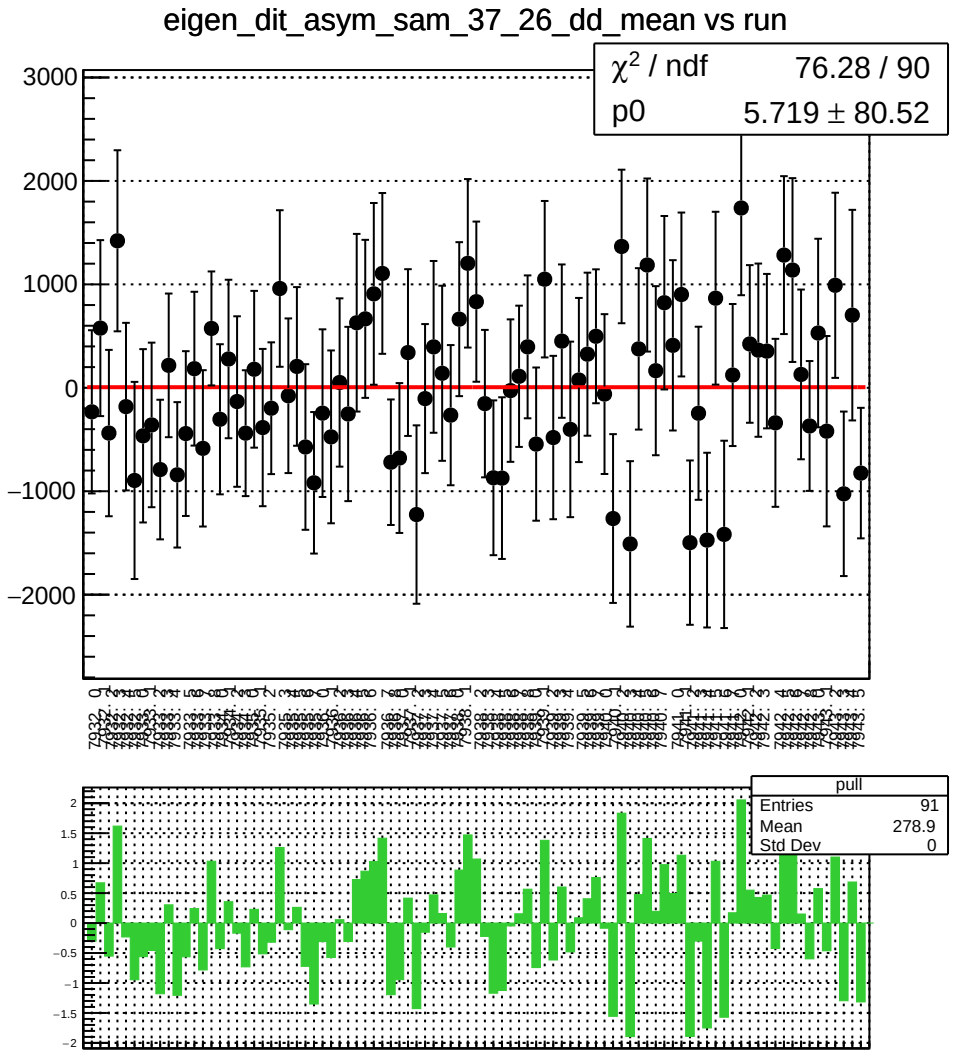

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.28 / 90
p0 5.719 ± 80.52
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 278.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

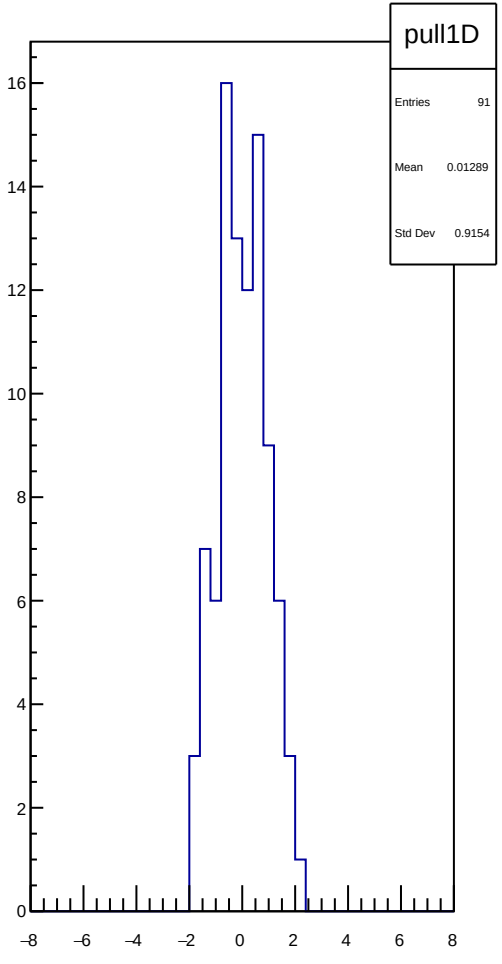

pull1D
Entries 91
Mean 0.01289
Std Dev 0.9154
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

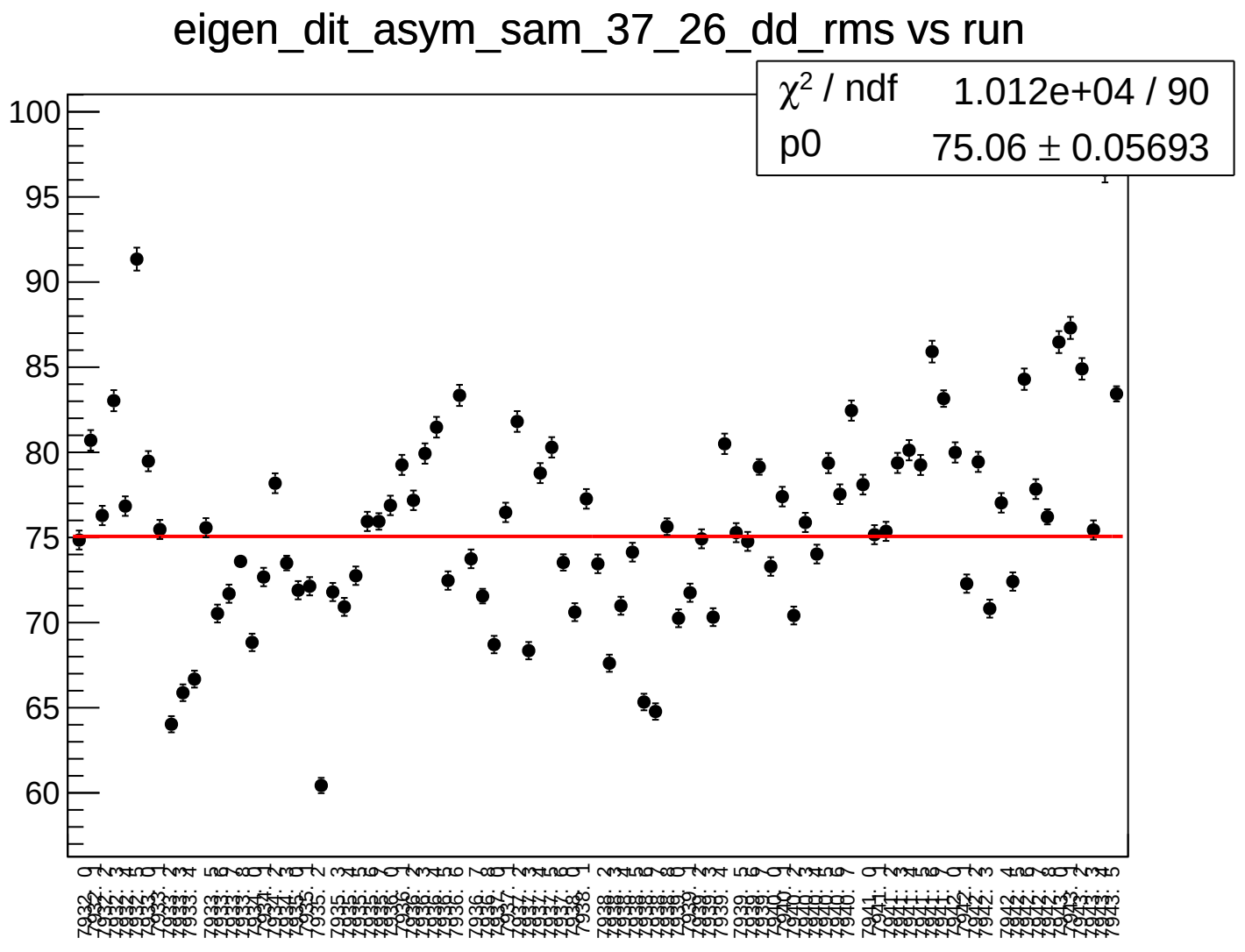

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.012e+04 / 90
p0 75.06 ± 0.05693
100
95
90
85
80
75
70
65
60

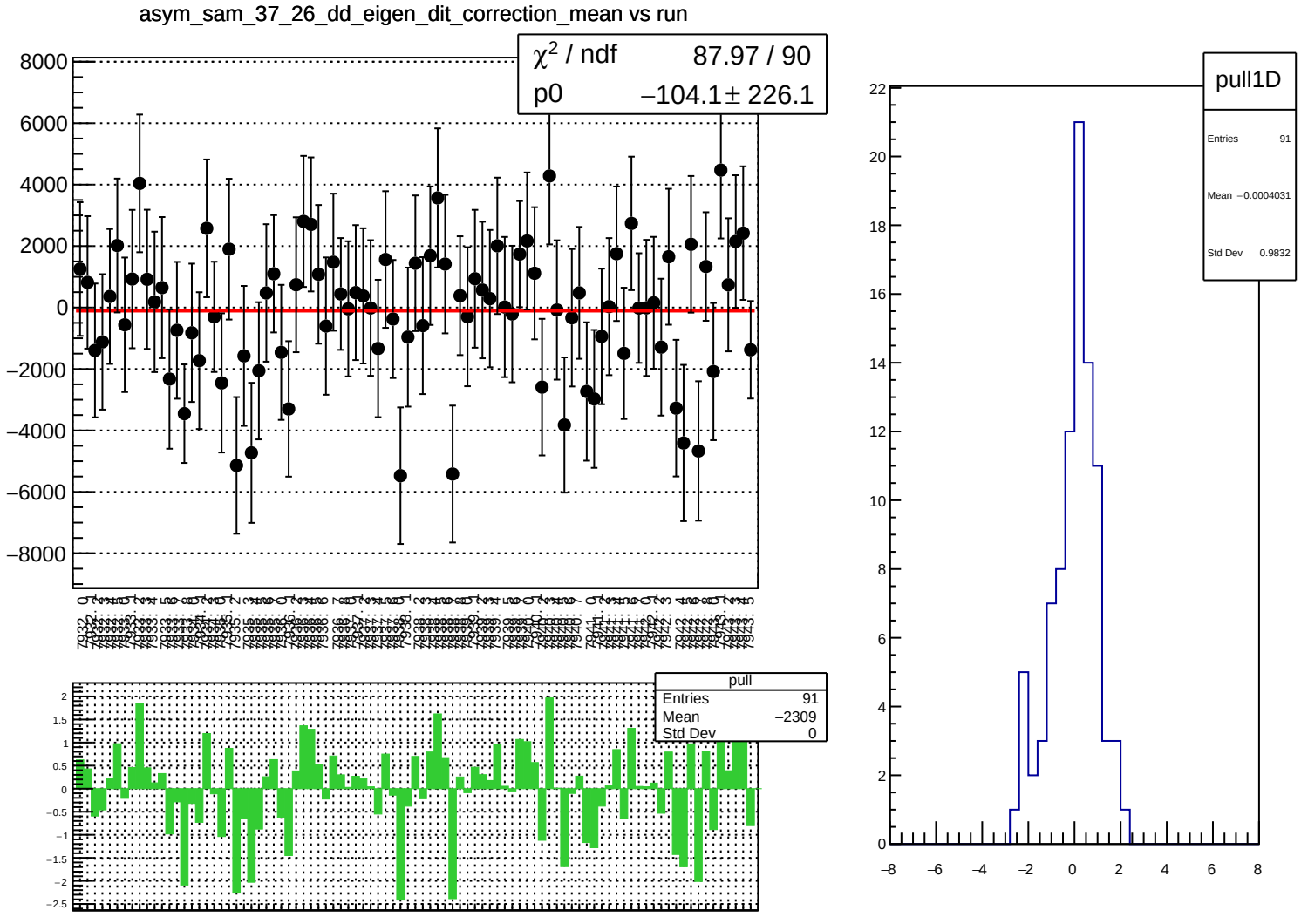

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 87.97 / 90
p0 −104.1 ± 226.1
pull
Entries 91
Mean −2309
Std Dev 0
pull1D
Entries 91
Mean −0.0004032
Std Dev 0.9832

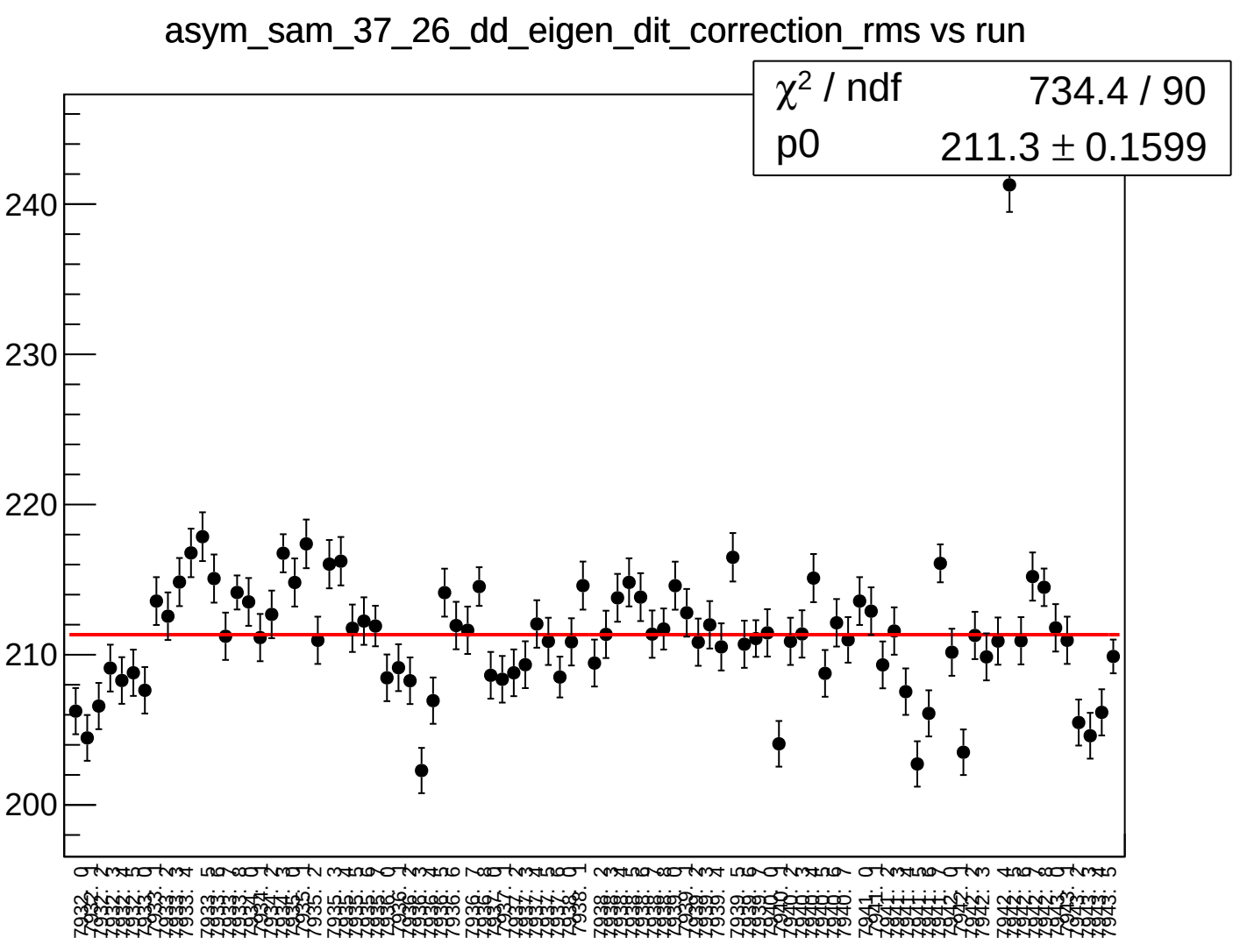

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 734.4 / 90
p0 211.3 ± 0.1599
240
230
220
210
200

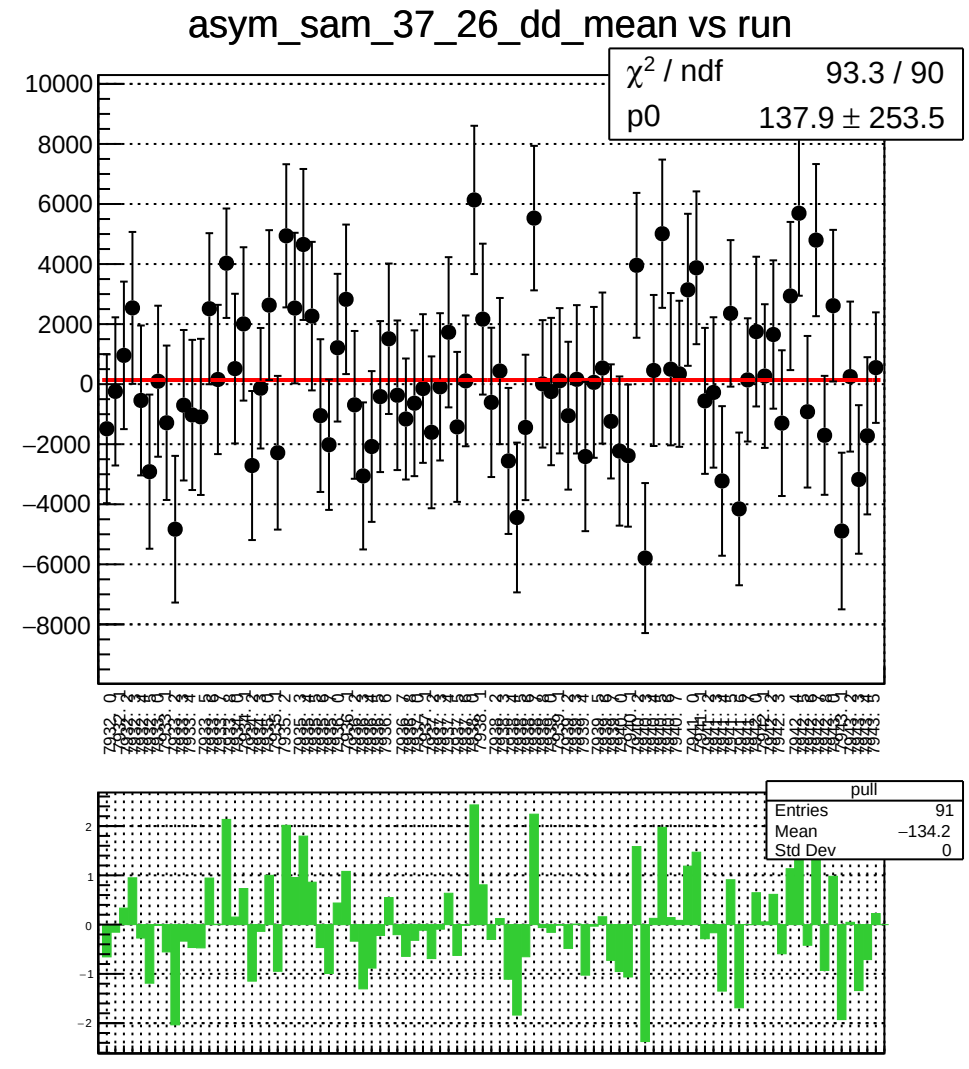

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.28 / 90
p0 5.719 ± 80.52
pull
Entries 91
Mean 278.9
Std Dev 0

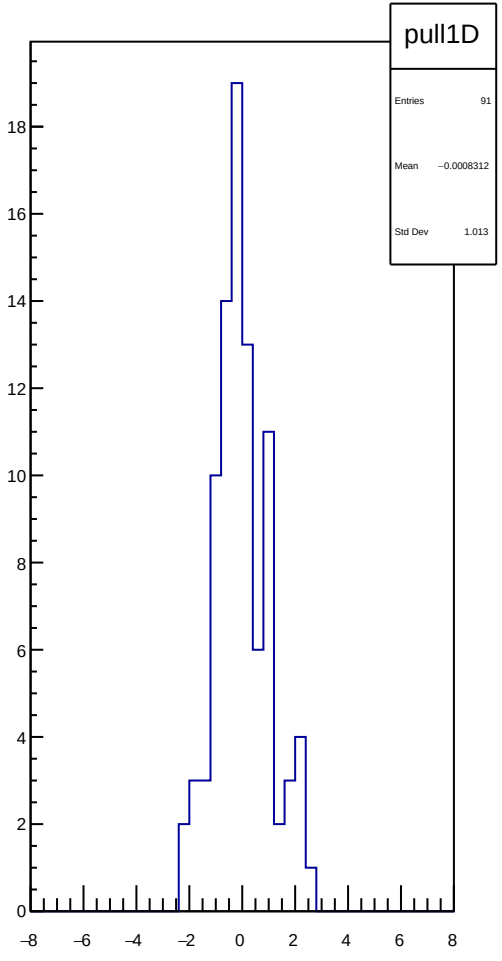

pull1D
Entries 91
Mean 0.01289
Std Dev 0.9154

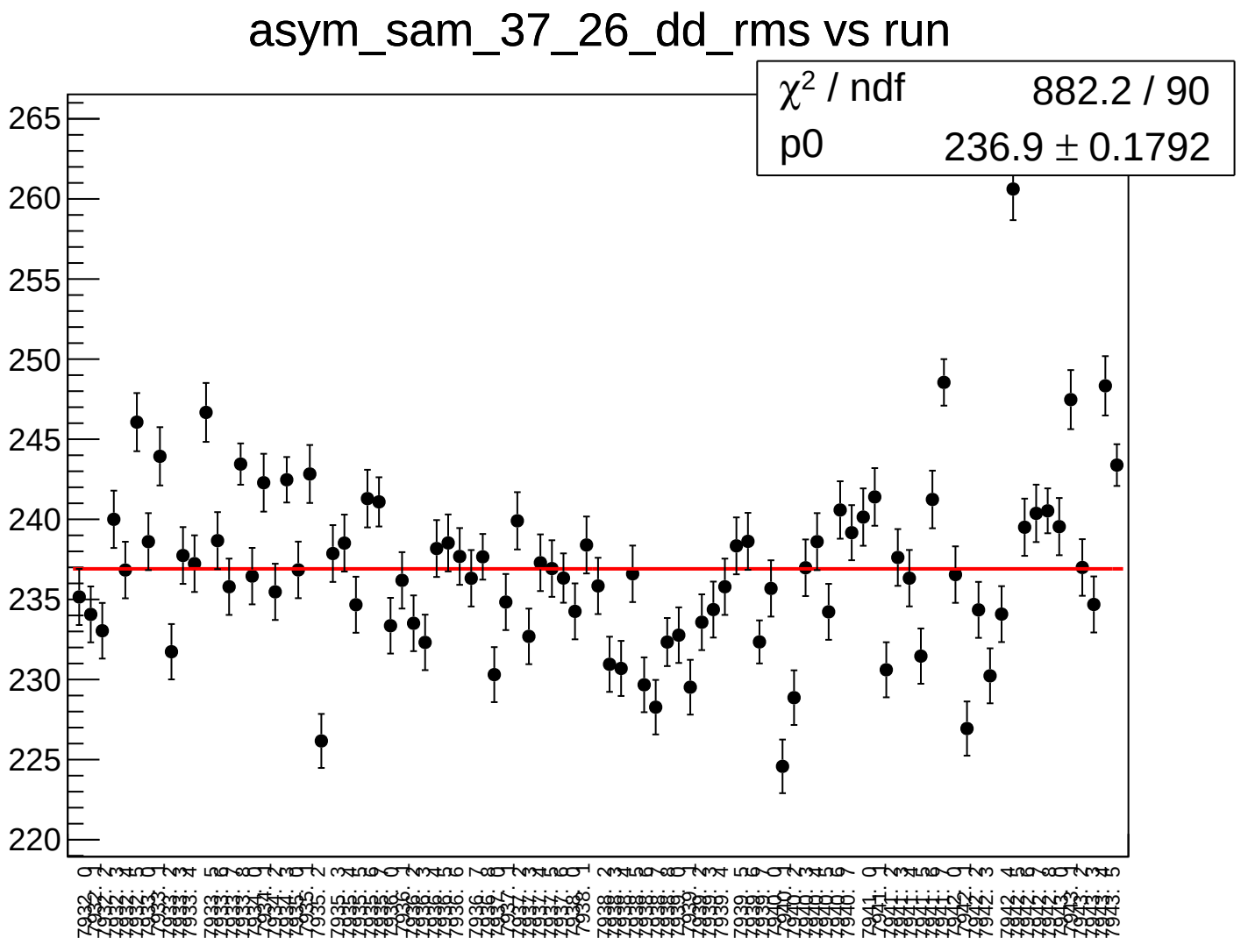

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.012e+04 / 90
p0 75.06 ± 0.05693
100
95
90
85
80
75
70
65
60

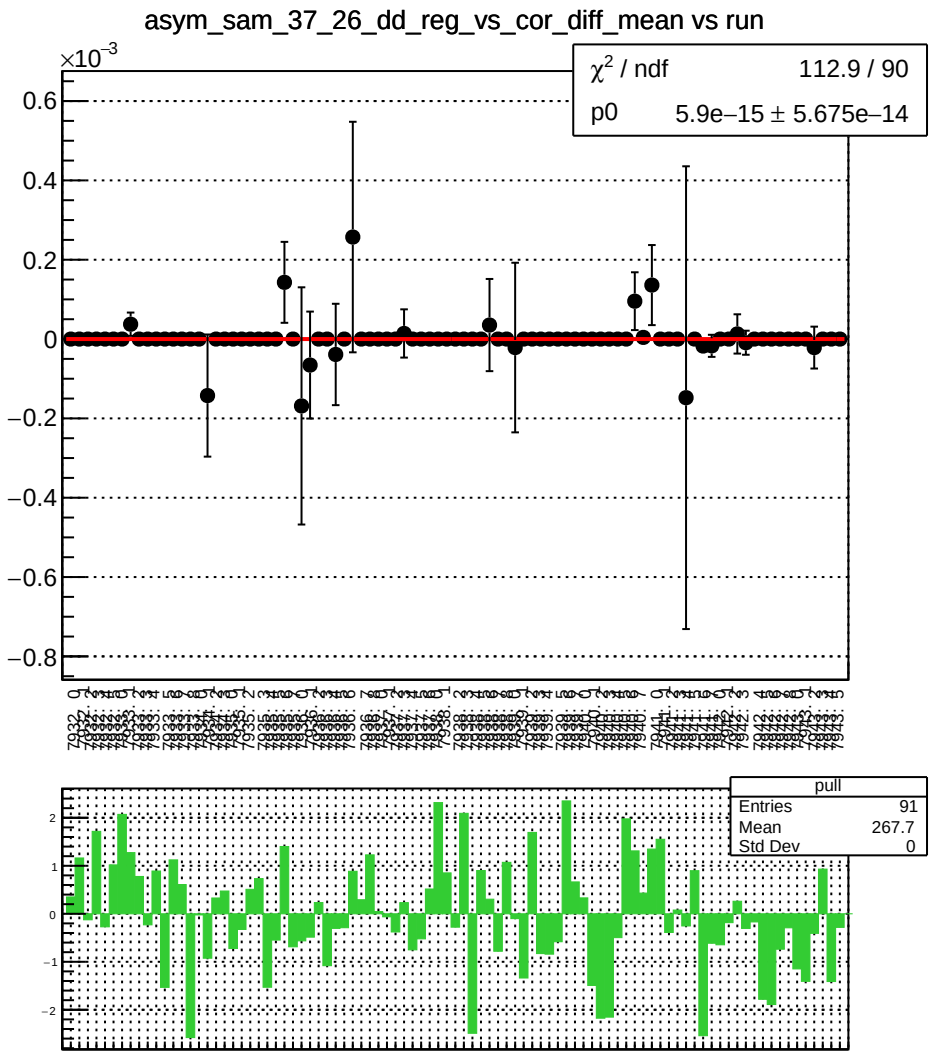

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.97 / 90
p0 −104.1 ± 226.1
pull
Entries 91
Mean −2309
Std Dev 0
pull1D
Entries 91
Mean −0.0004031
Std Dev 0.9832

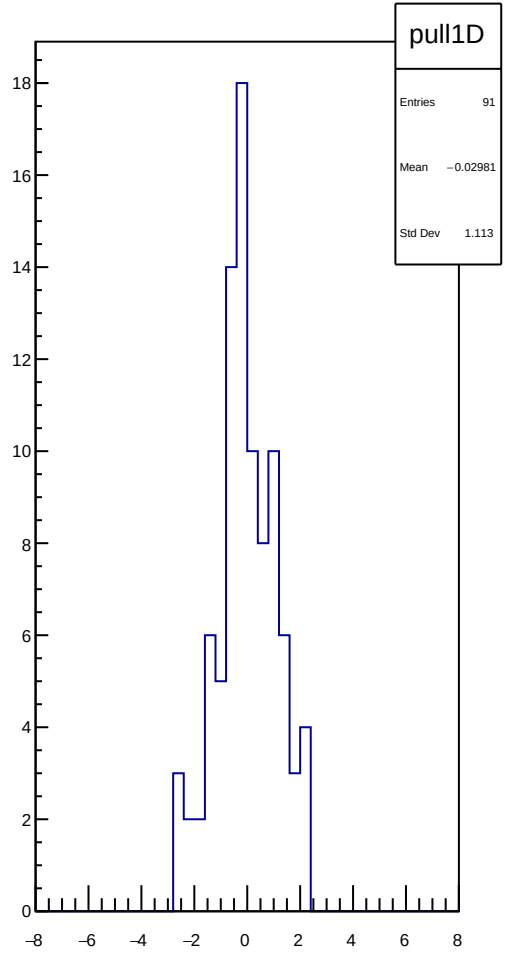

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 734.4 / 90
p0 211.3 ± 0.1599
240
230
220
210
200

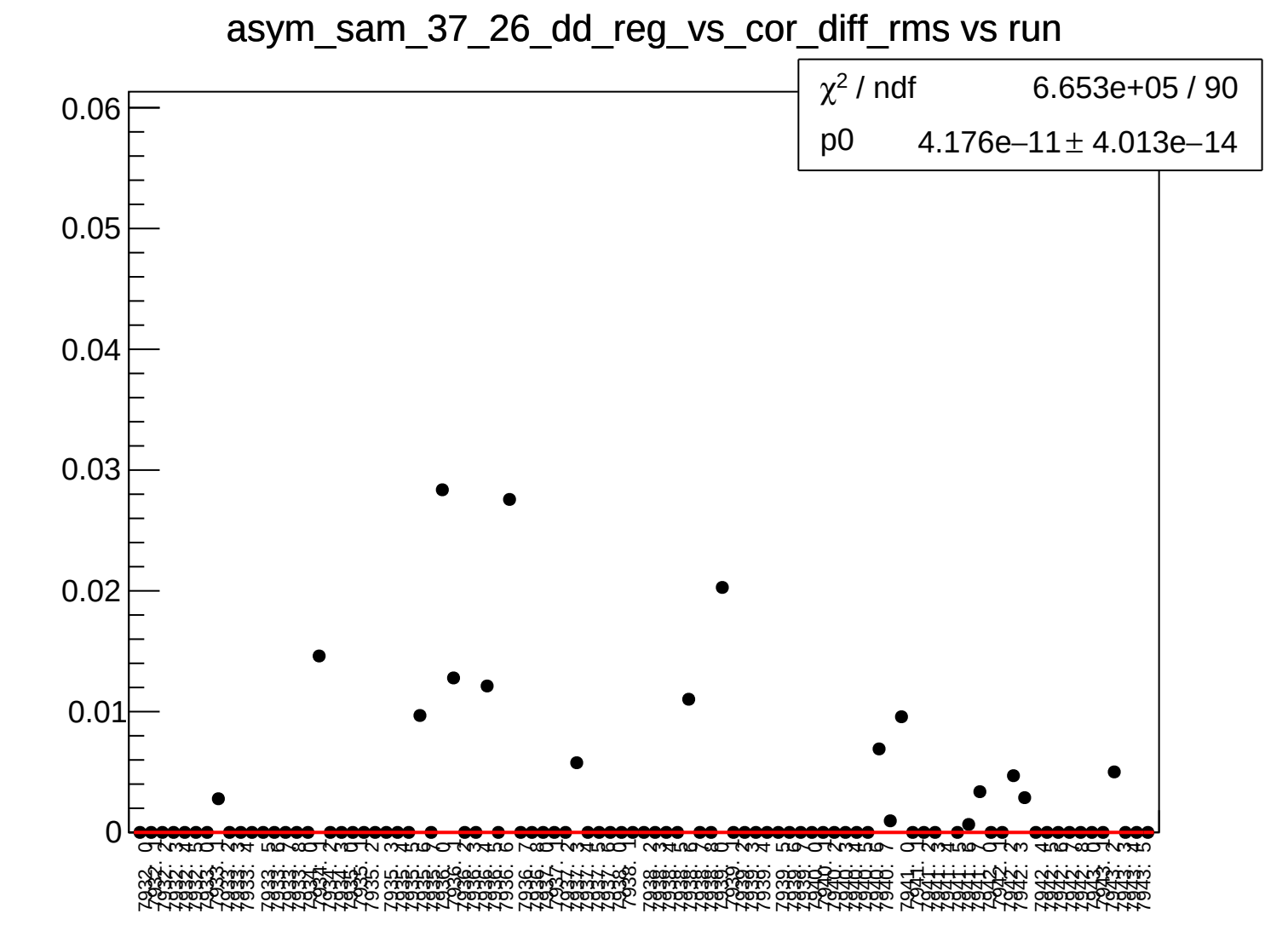

asym_sam_37_26_dd_mean vs run
χ^2 / ndf 93.3 / 90
p0 137.9 ± 253.5
pull
Entries 91
Mean −134.2
Std Dev 0

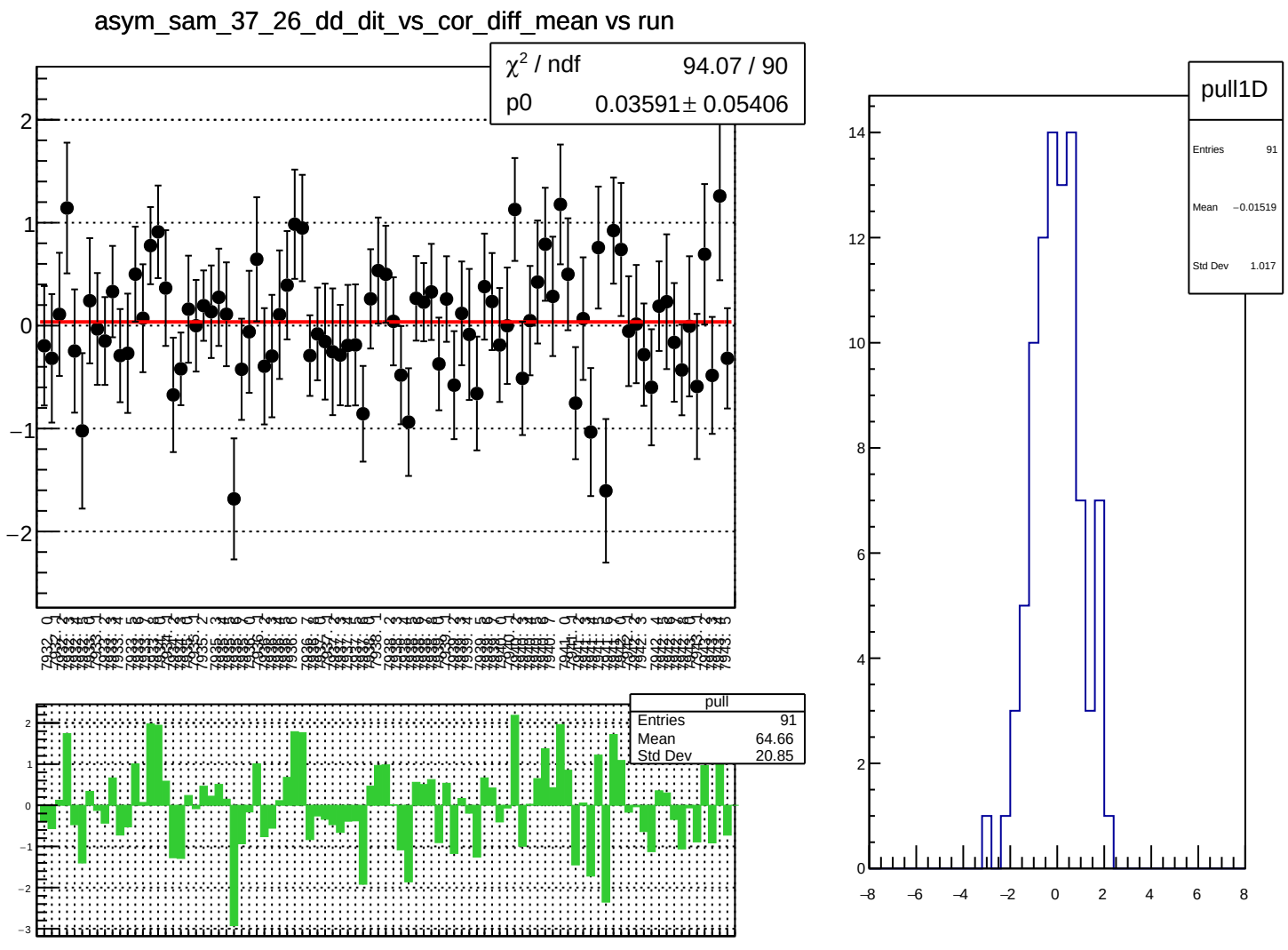

pull1D
Entries 91
Mean −0.0008312
Std Dev 1.013

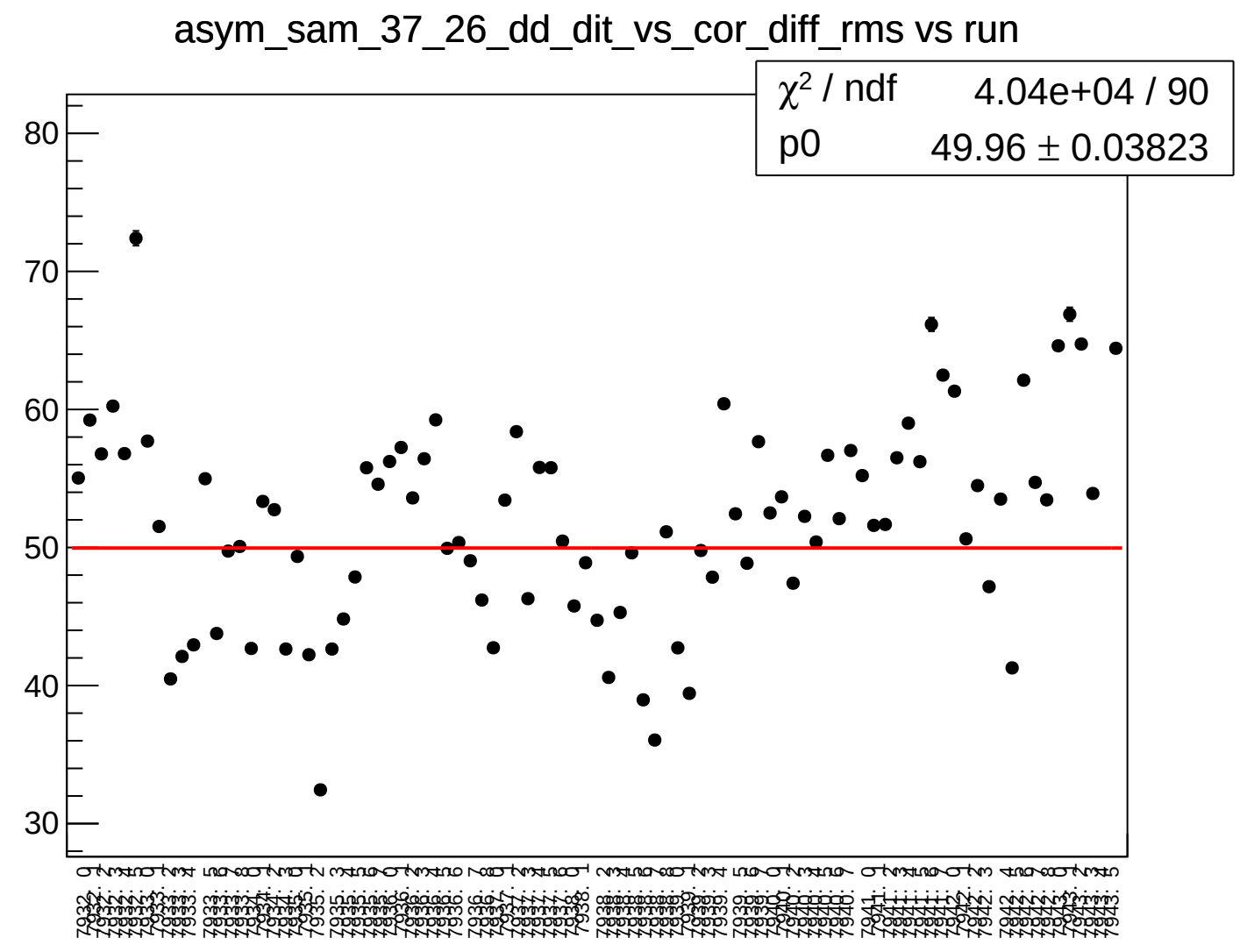

asym_sam_37_26_dd_rms vs run
χ² / ndf 882.2 / 90
p0 236.9 ± 0.1792
265
260
255
250
245
240
235
230
225
220

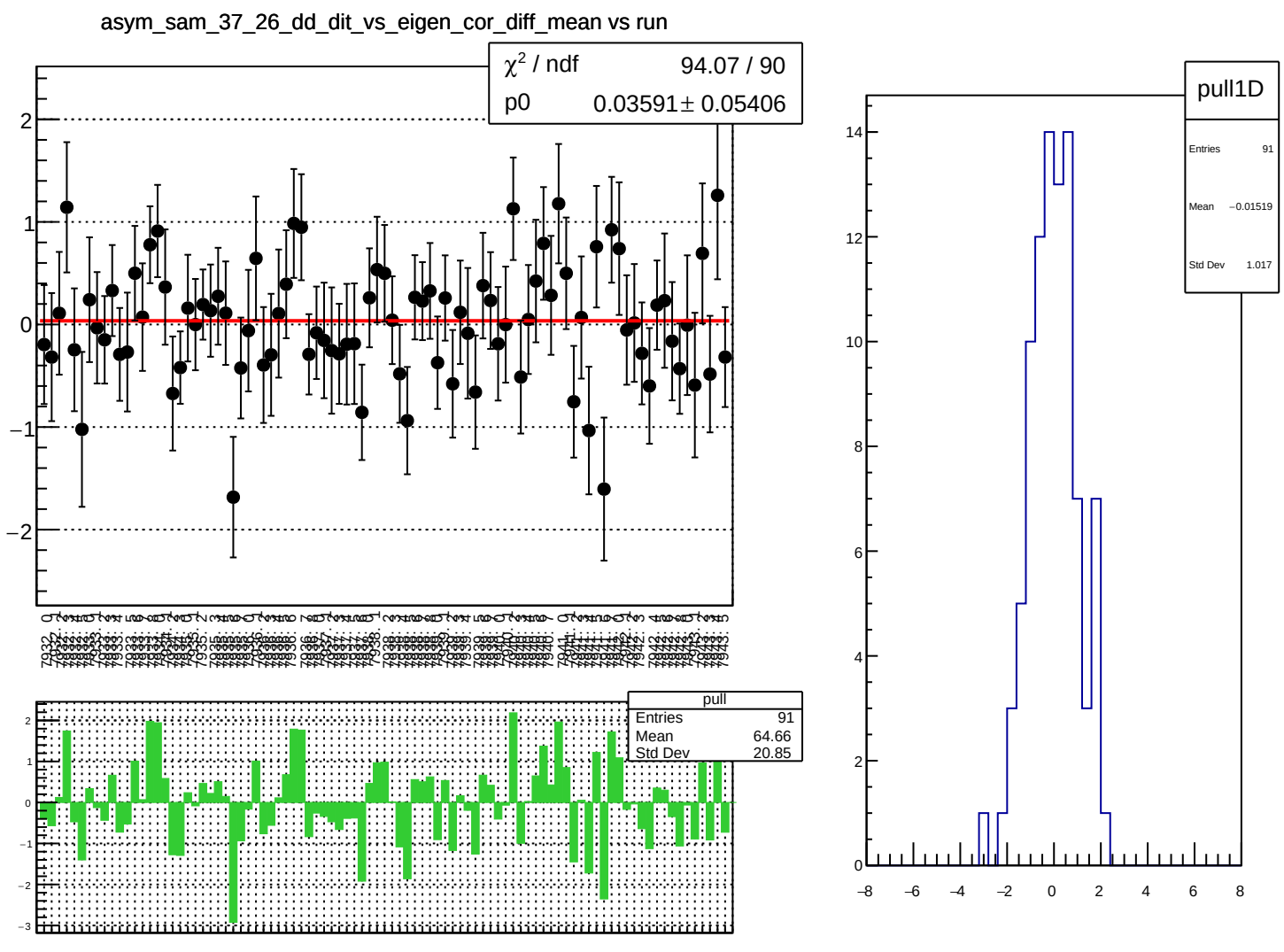

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 112.9 / 90
p0 5.9e−15 ± 5.675e−14
pull
Entries 91
Mean 267.7
Std Dev 0

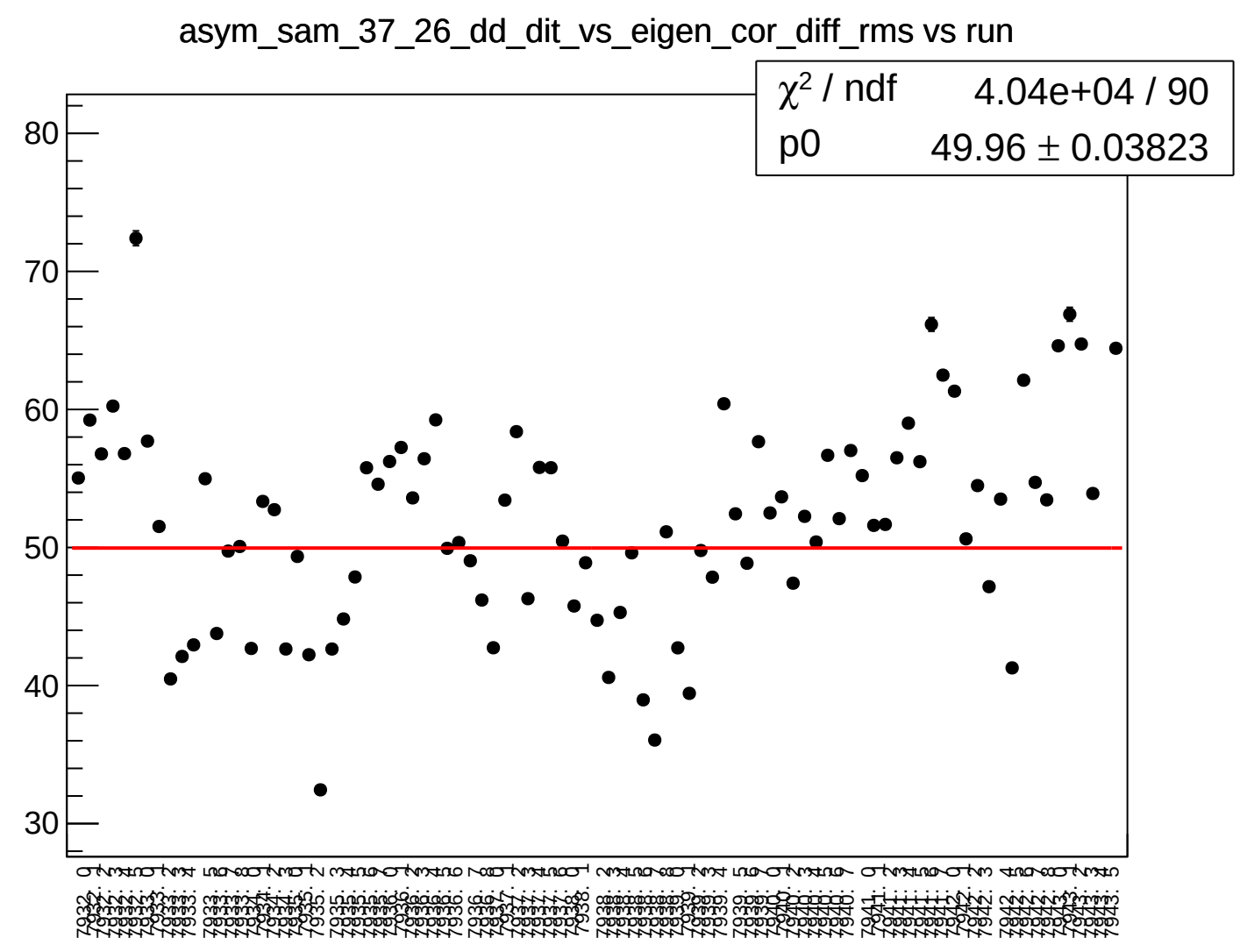

pull1D
Entries 91
Mean −0.02981
Std Dev 1.113

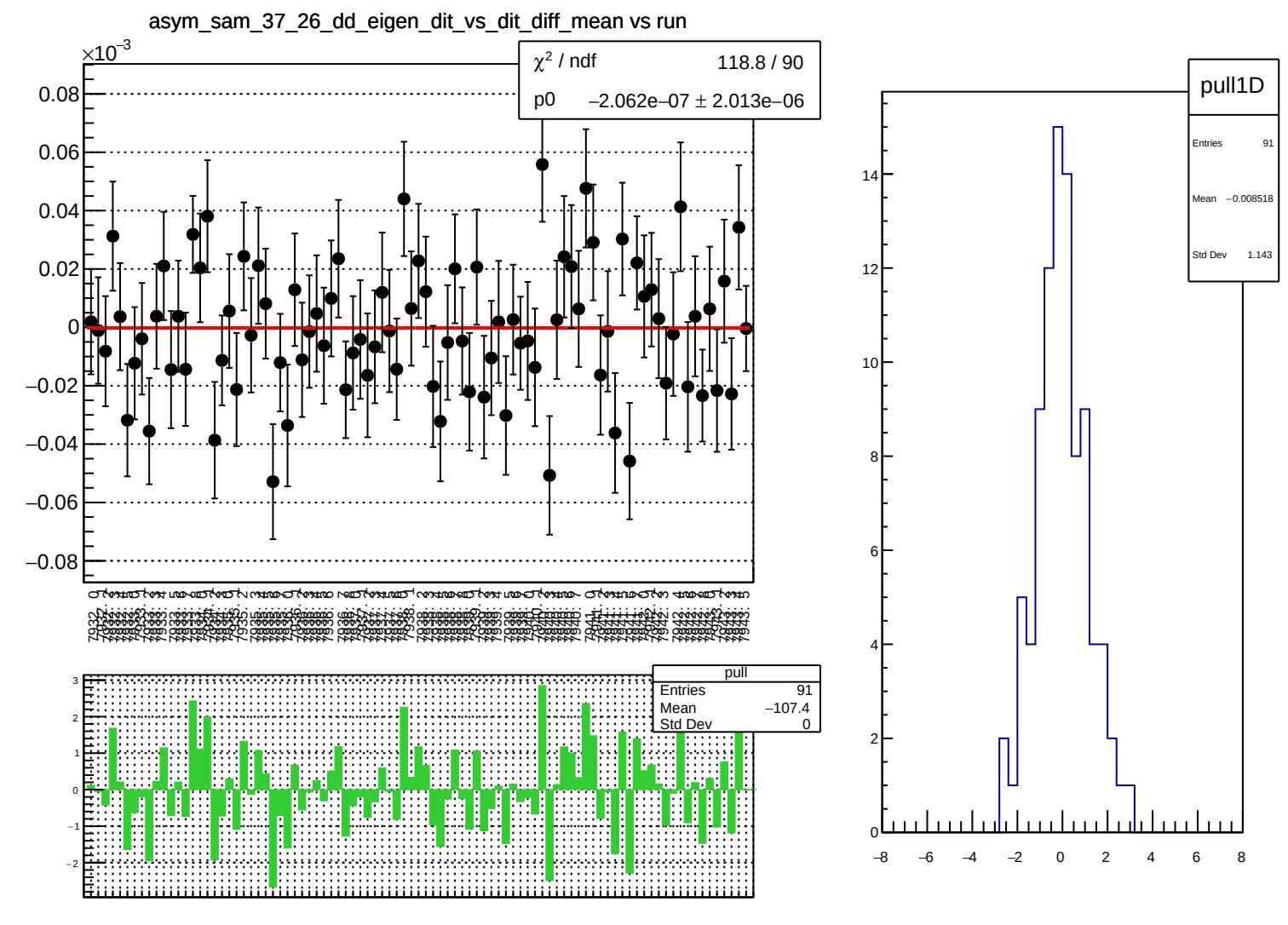

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.653e+05 / 90
p0 4.176e−11 ± 4.013e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

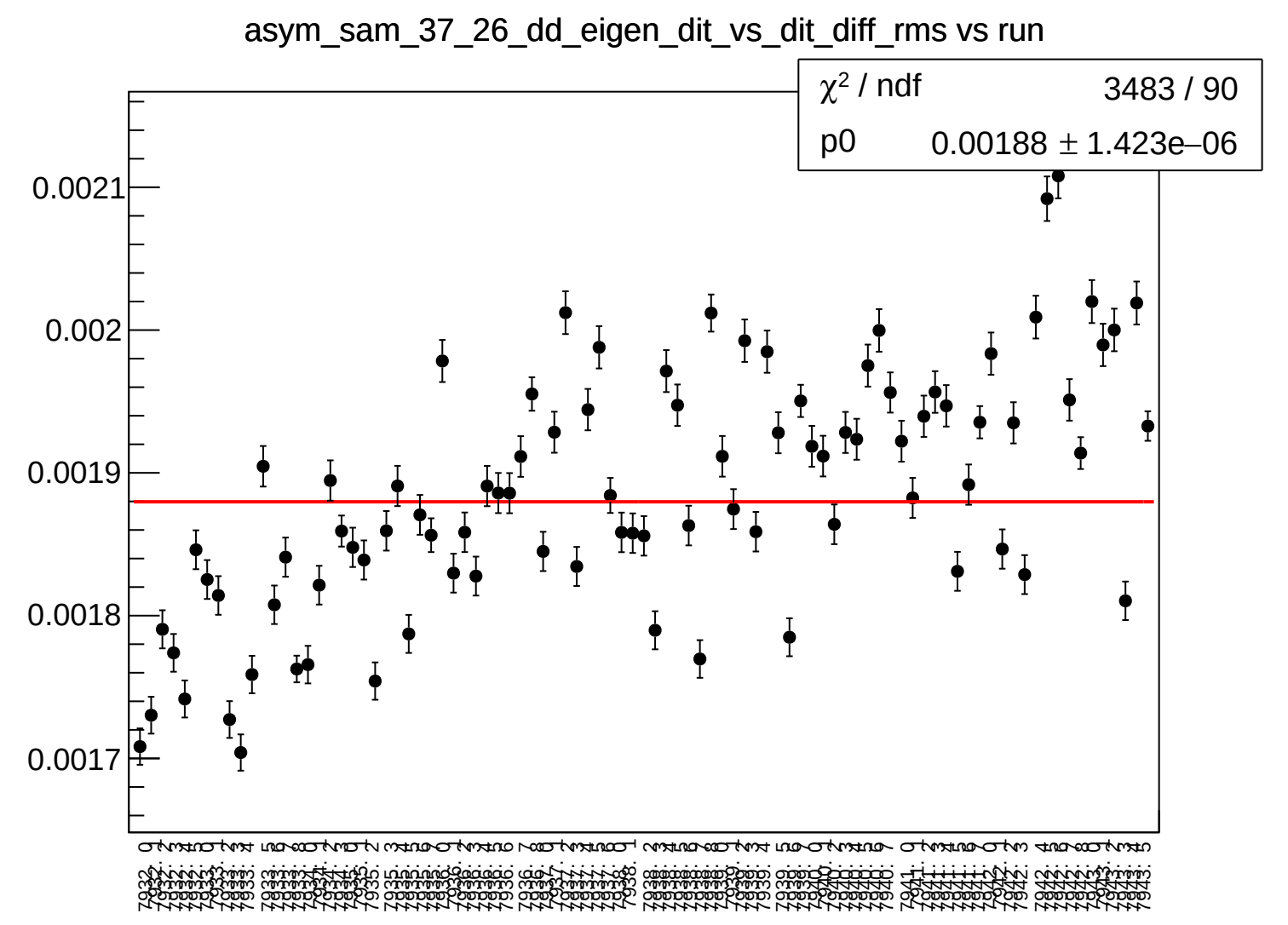

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.07 / 90
p0 0.03591 ± 0.05406
pull
Entries 91
Mean 64.66
Std Dev 20.85
pull1D
Entries 91
Mean −0.01519
Std Dev 1.017

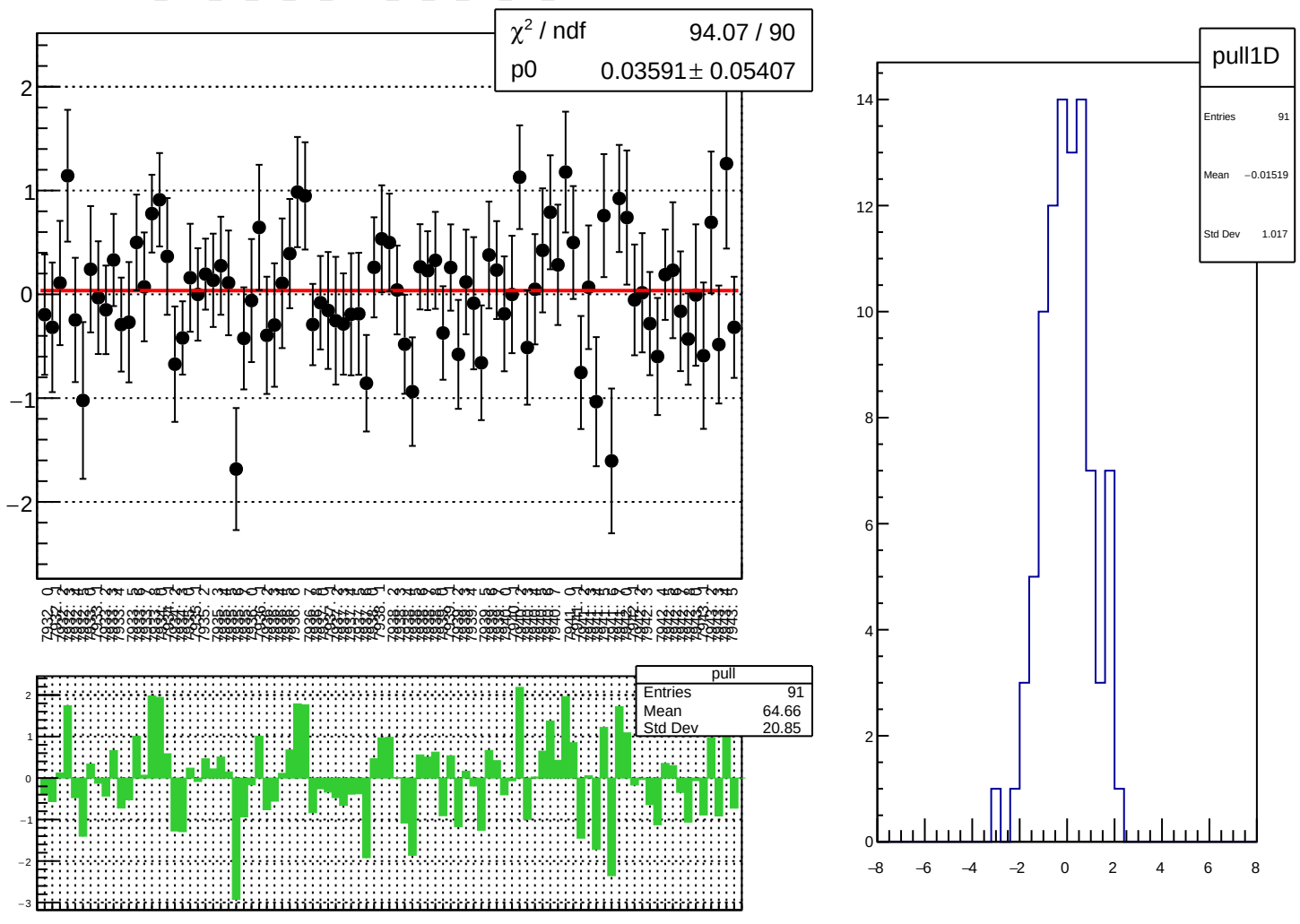

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.04e+04 / 90
p0 49.96 ± 0.03823
80
70
60
50
40
30

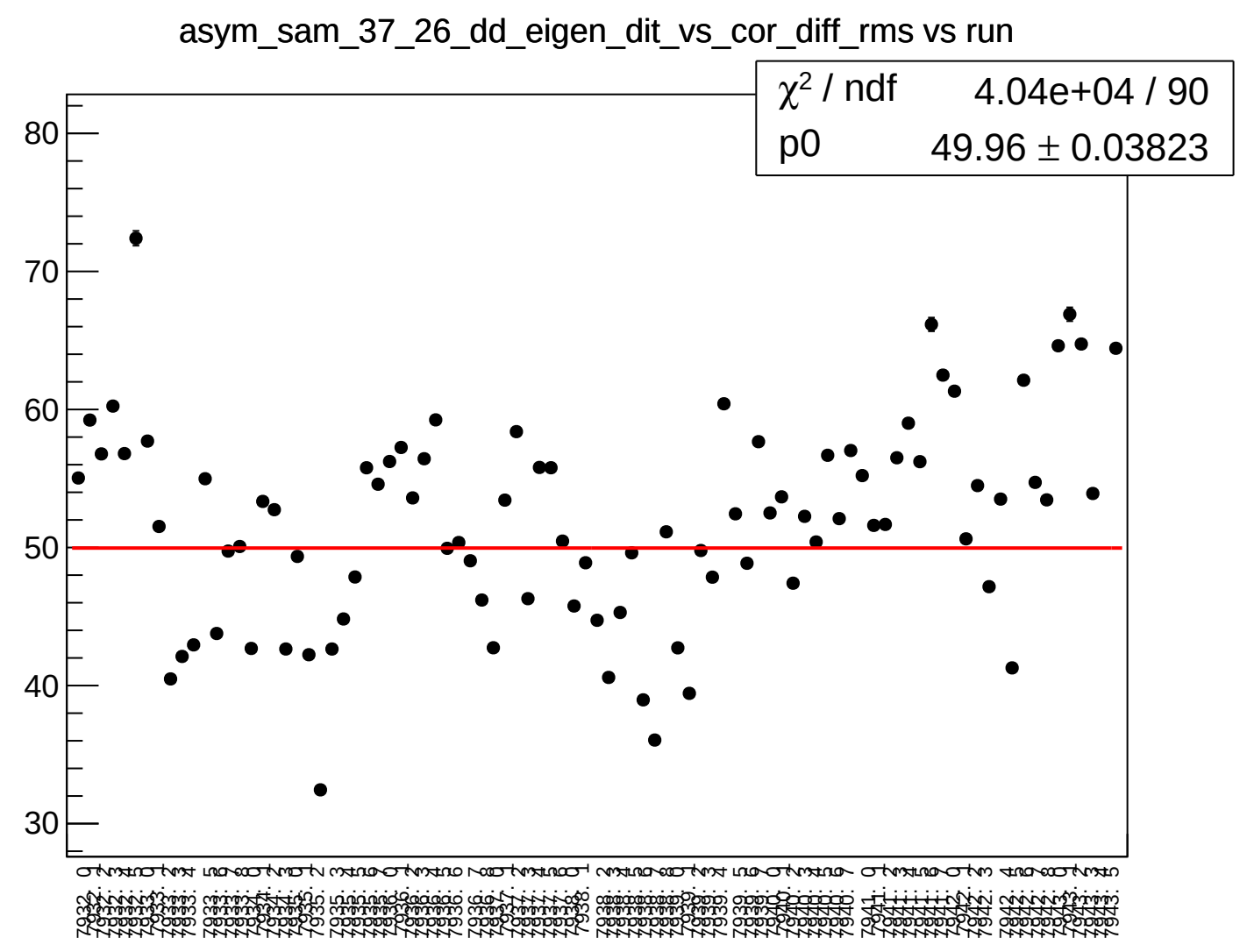

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.07 / 90
p0 0.03591 ± 0.05406
pull
Entries 91
Mean 64.66
Std Dev 20.85
pull1D
Entries 91
Mean −0.01519
Std Dev 1.017

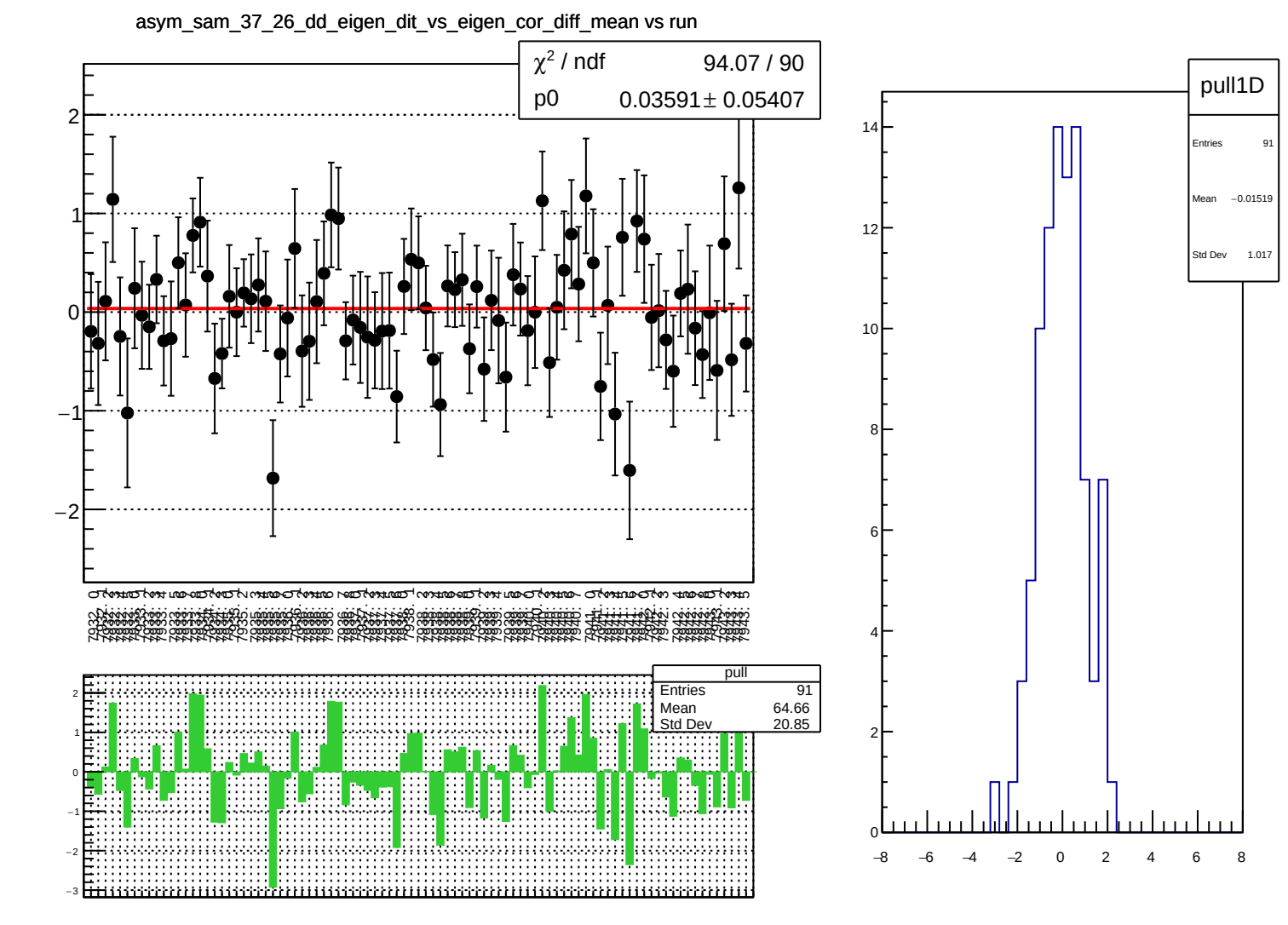

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.04e+04 / 90
p0 49.96 ± 0.03823
80
70
60
50
40
30

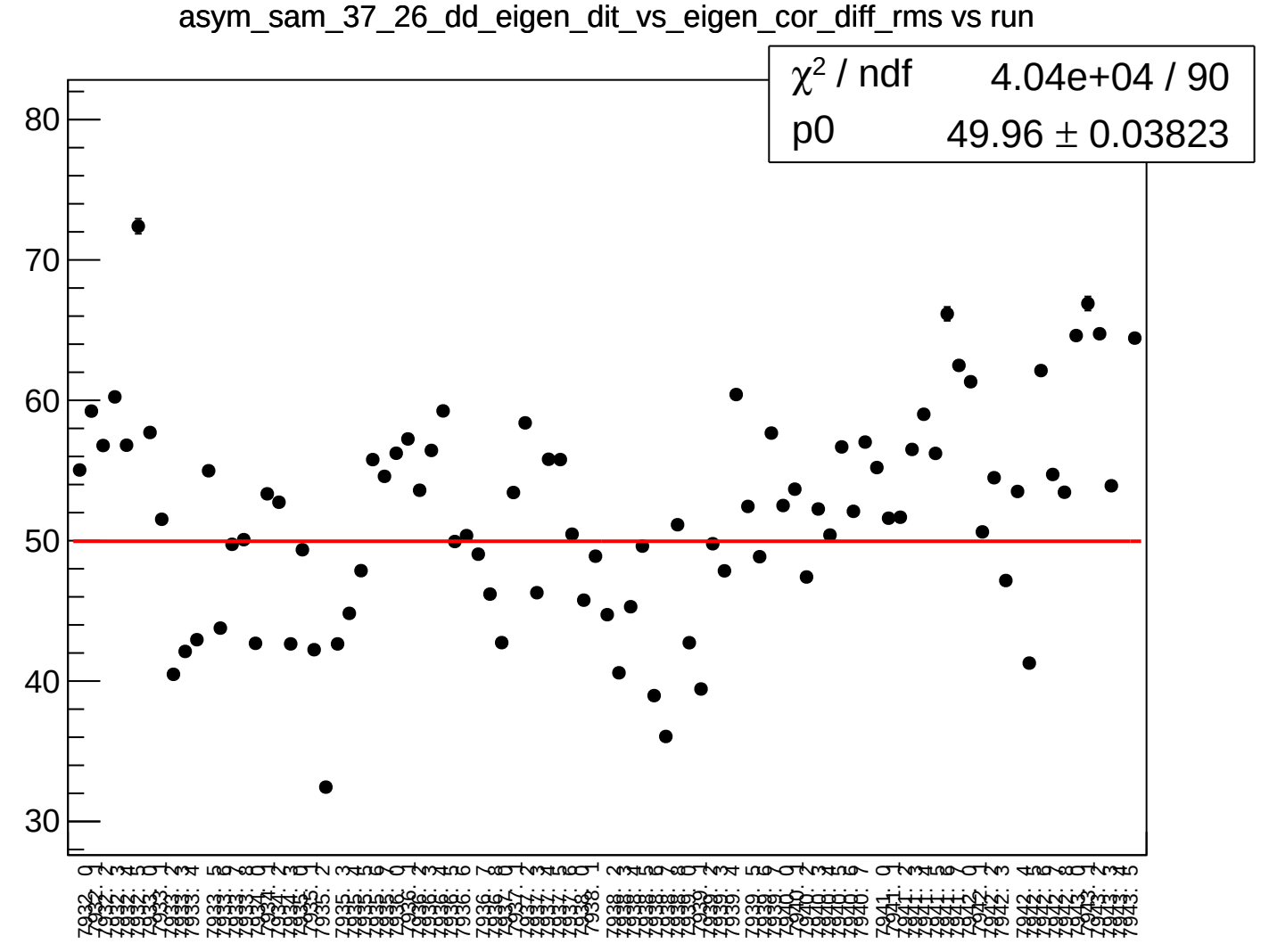

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.8 / 90
p0 −2.062e−07 ± 2.013e−06
pull
Entries 91
Mean −107.4
Std Dev 0
pull1D
Entries 91
Mean −0.008518
Std Dev 1.143

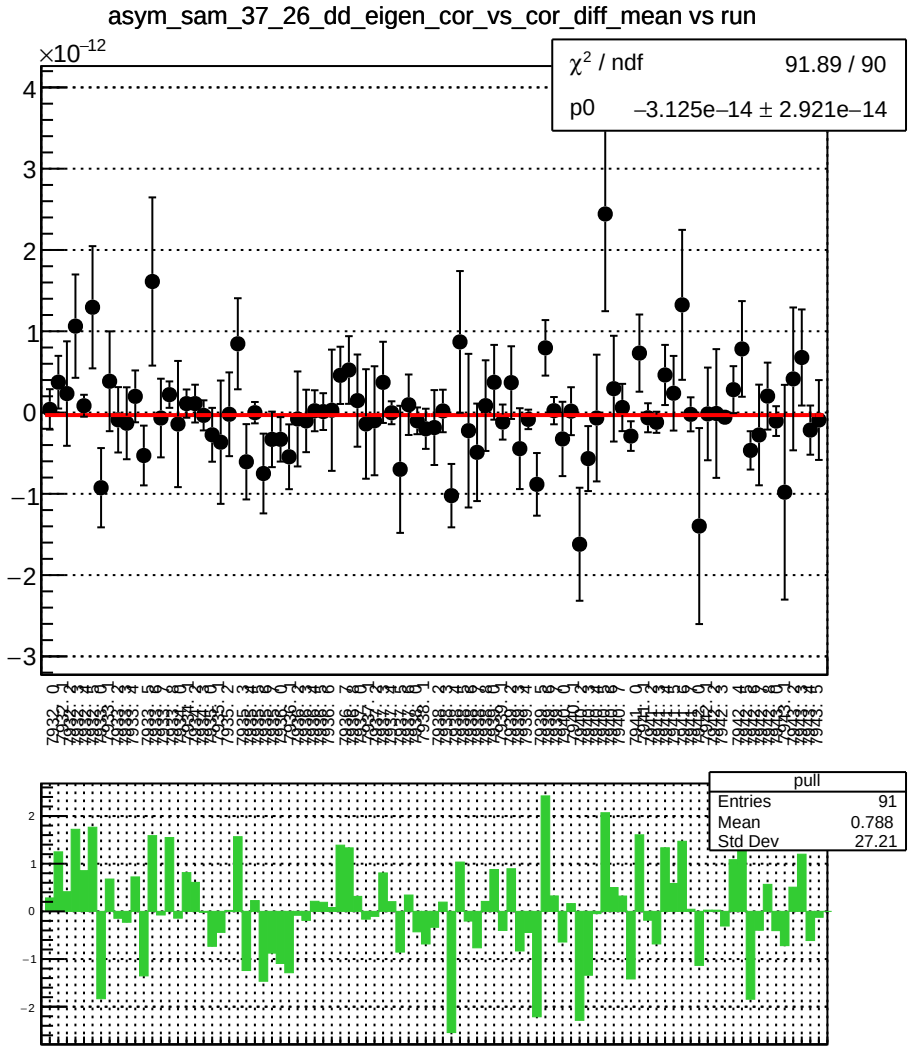

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3483 / 90
p0 0.00188 ± 1.423e−06
0.0021
0.002
0.0019
0.0018
0.0017

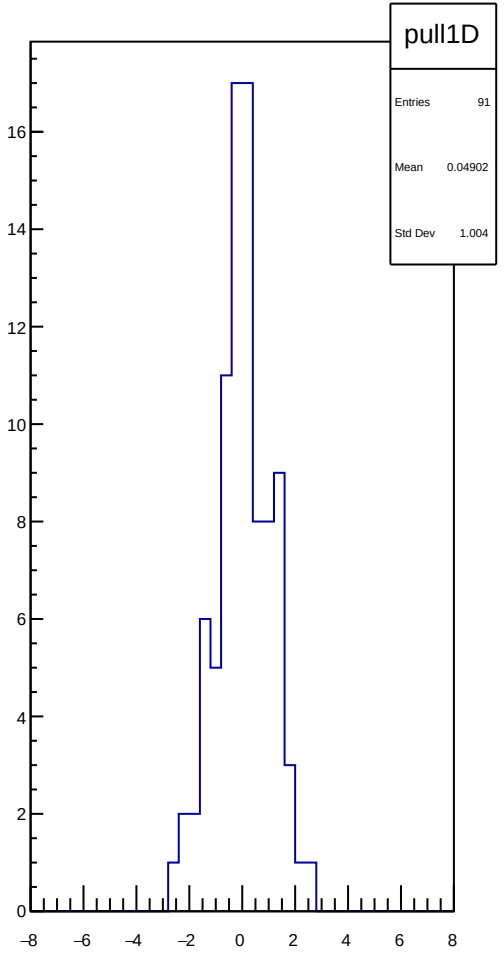

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.07 / 90
p0 0.03591 ± 0.05407
pull
Entries 91
Mean 64.66
Std Dev 20.85
pull1D
Entries 91
Mean −0.01519
Std Dev 1.017

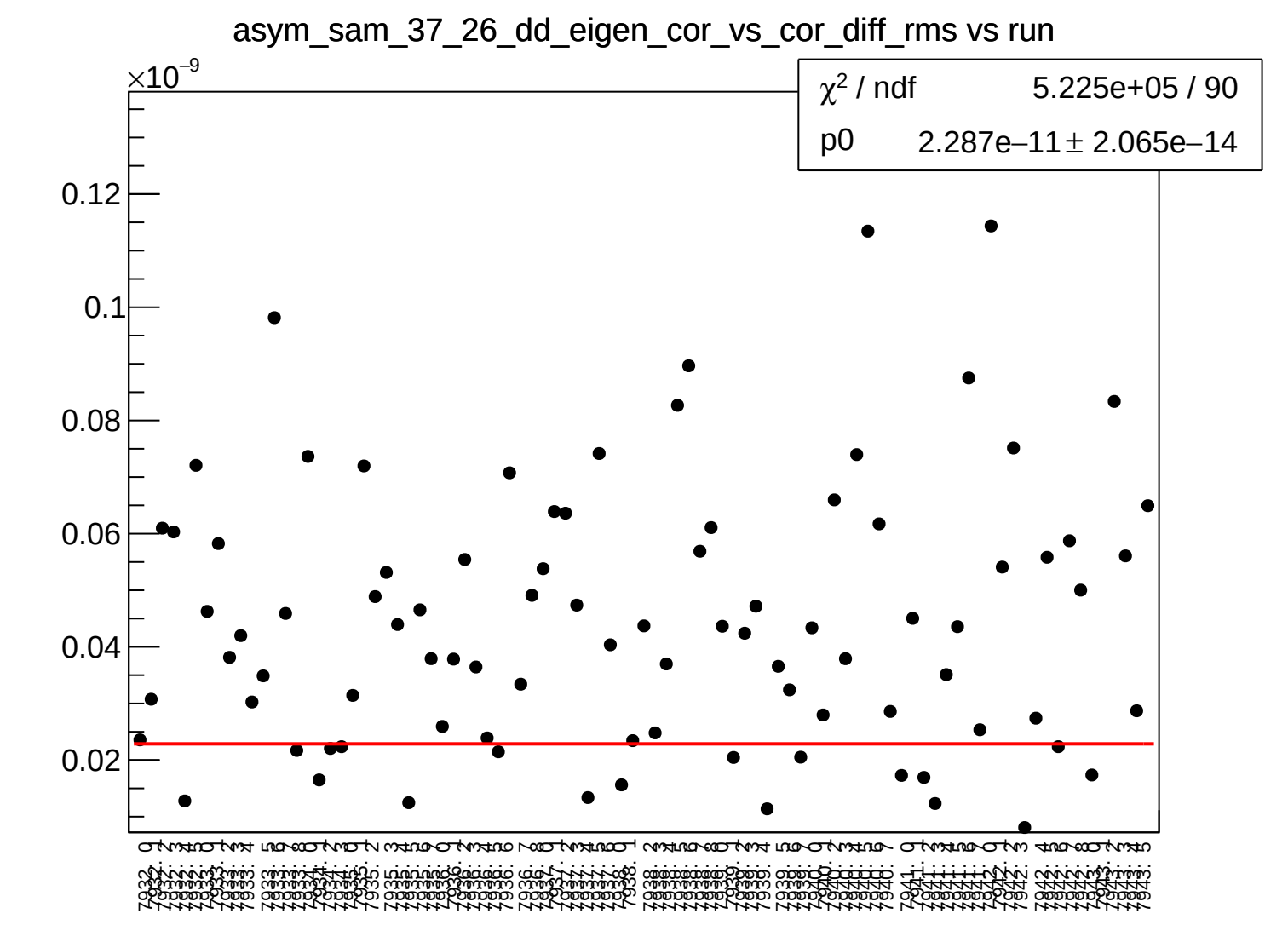

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.04e+04 / 90
p0 49.96 ± 0.03823
80
70
60
50
40
30

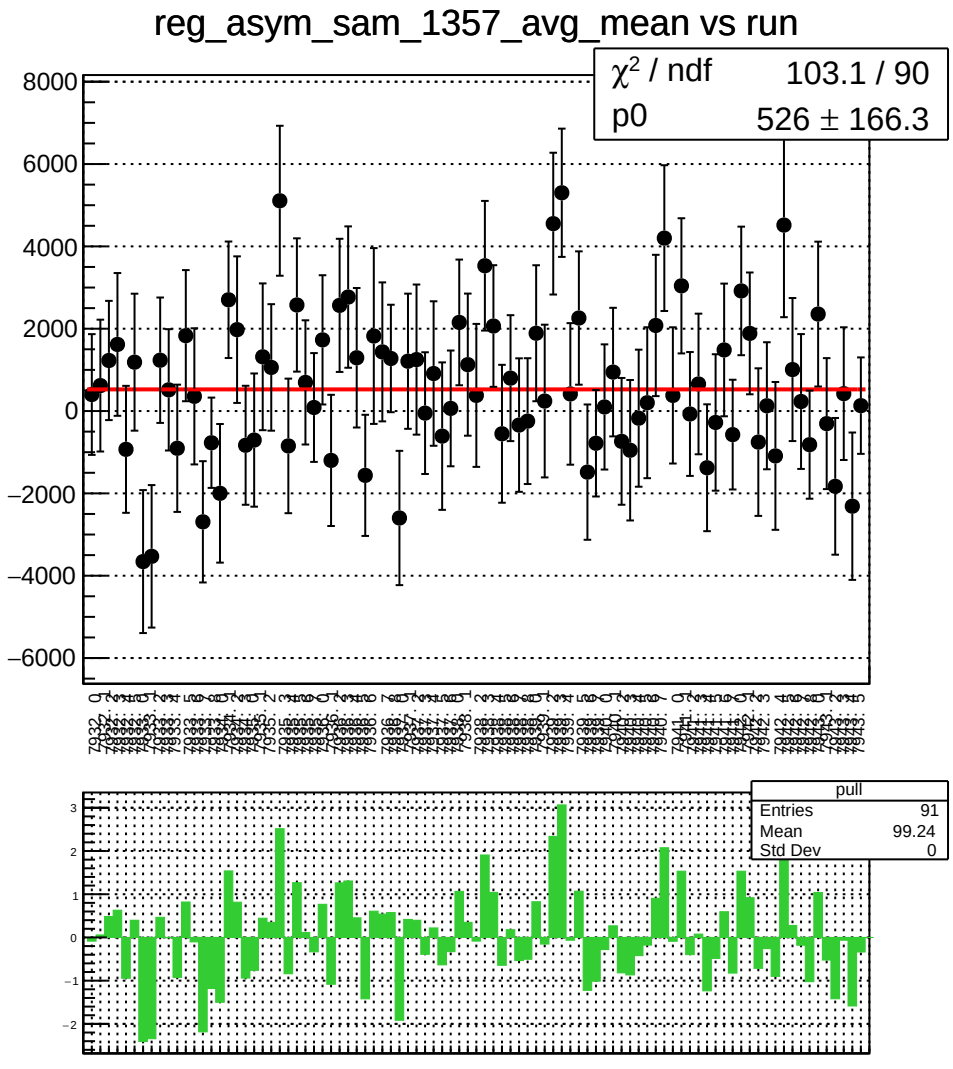

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.07 / 90
p0 0.03591 ± 0.05407
pull
Entries 91
Mean 64.66
Std Dev 20.85
pull1D
Entries 91
Mean −0.01519
Std Dev 1.017

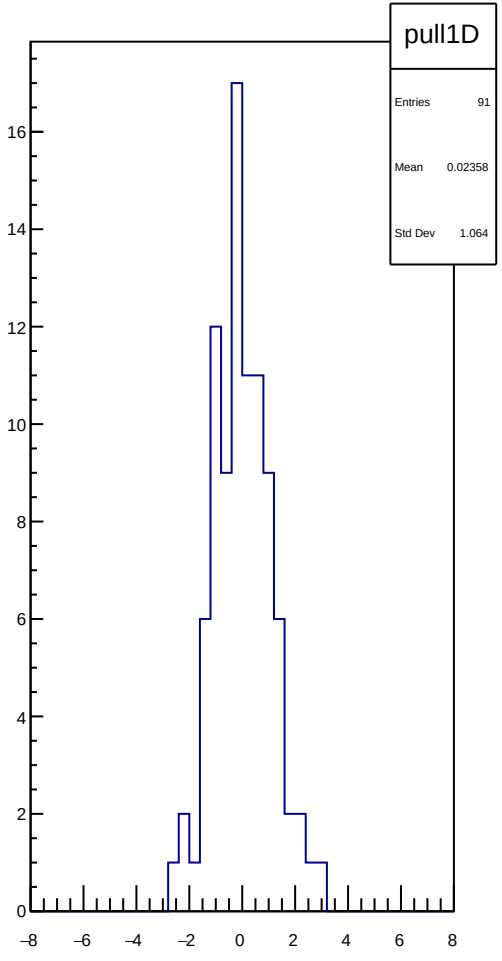

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.04e+04 / 90
p0 49.96 ± 0.03823
80
70
60
50
40
30

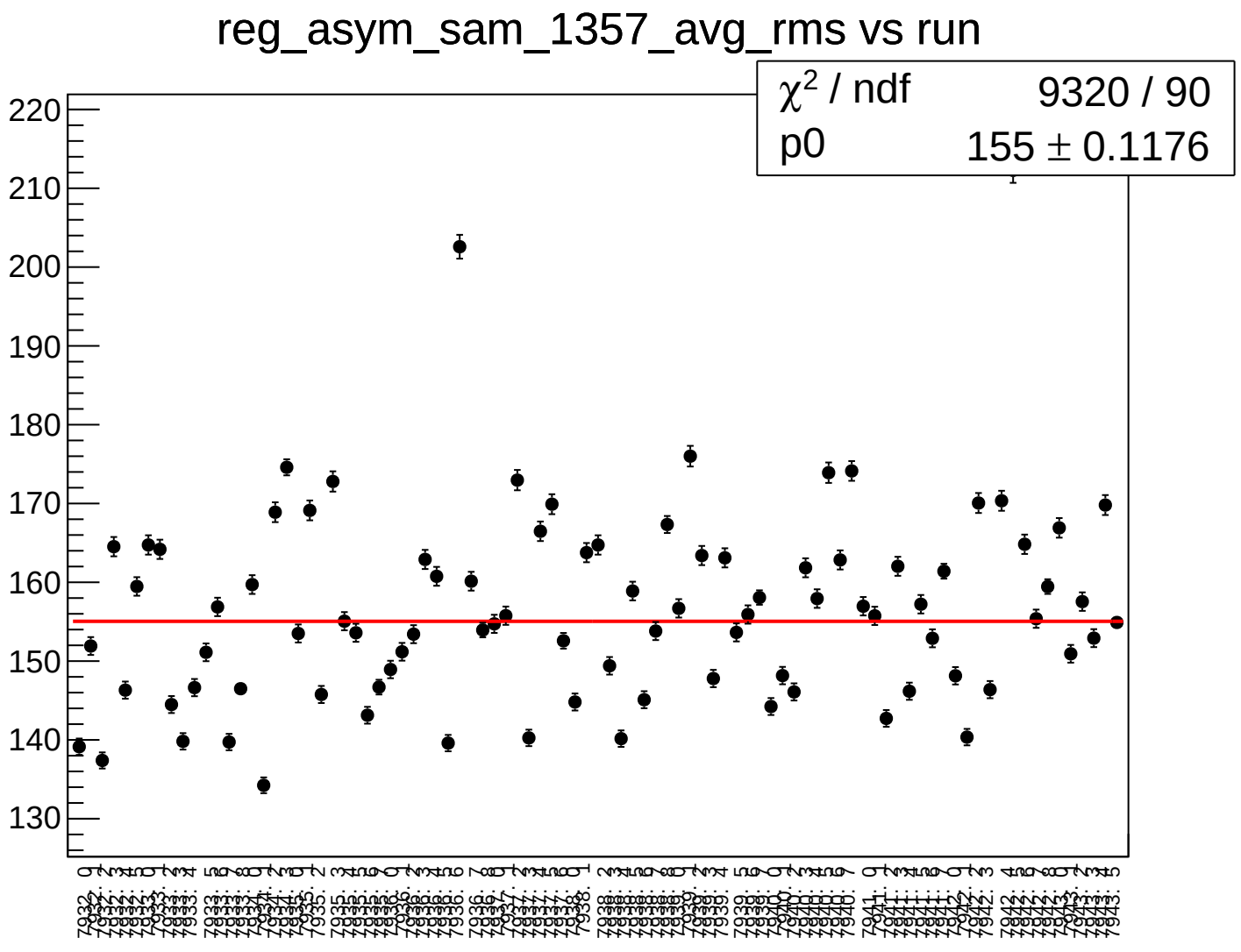

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.89 / 90
p0 −3.125e−14 ± 2.921e−14
pull
Entries 91
Mean 0.788
Std Dev 27.21

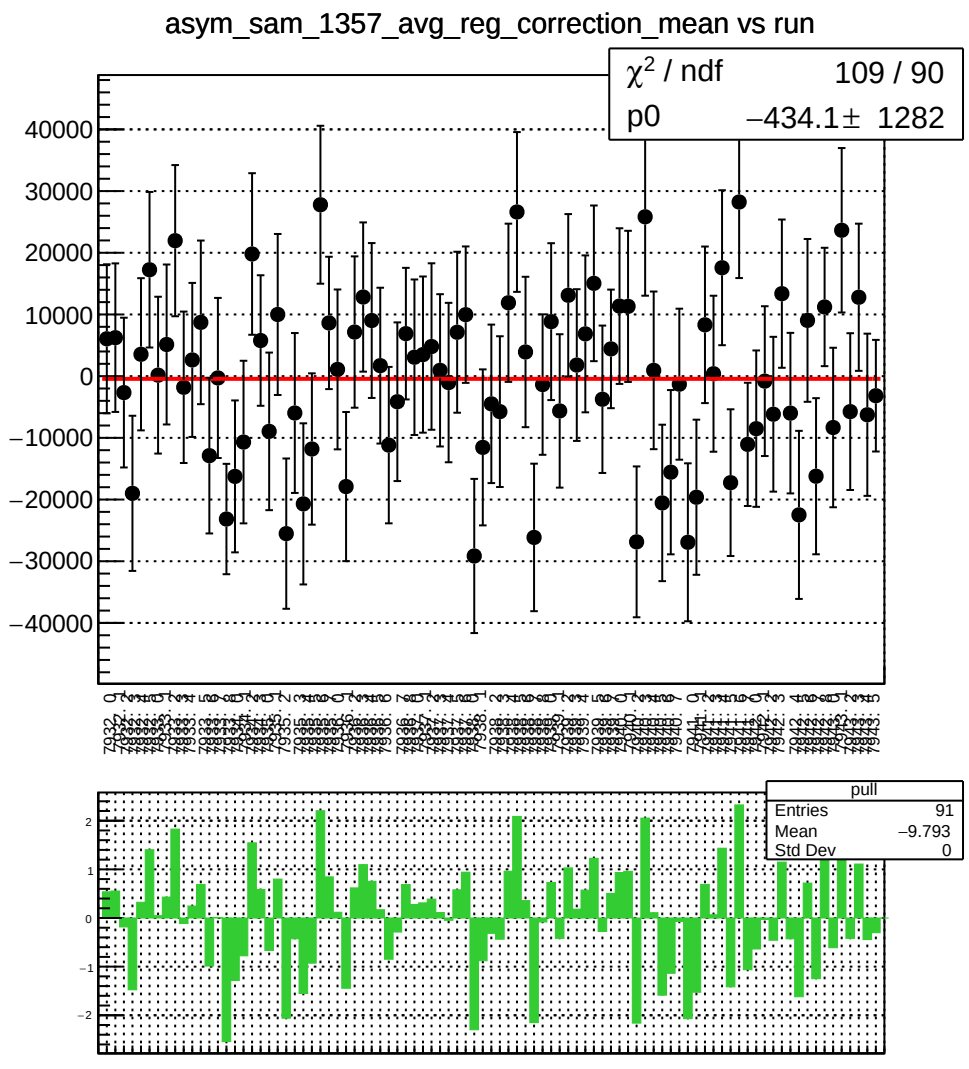

pull1D
Entries 91
Mean 0.04902
Std Dev 1.004

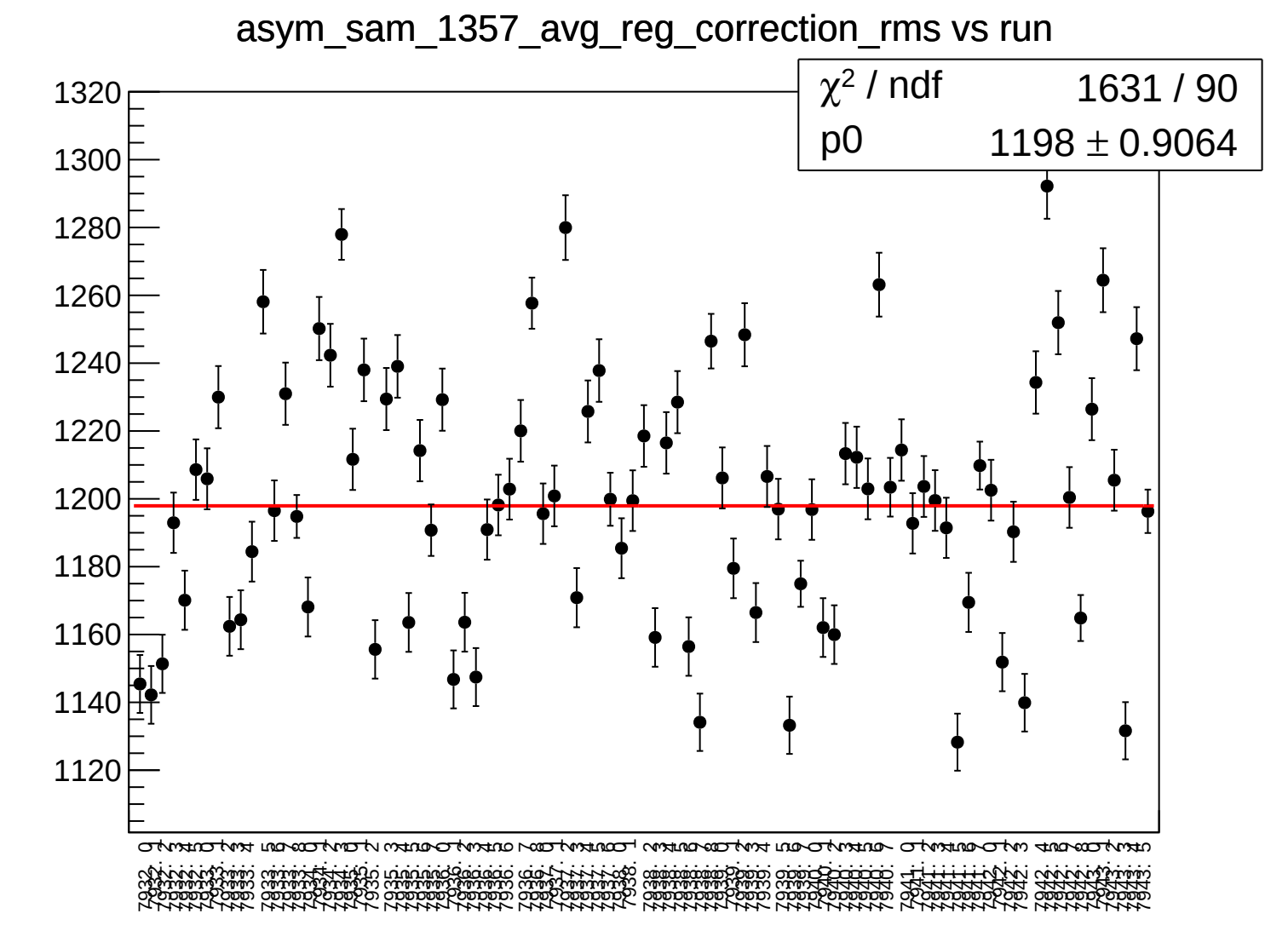

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.225e+05 / 90
p0 2.287e−11 ± 2.065e−14
0.12
0.1
0.08
0.06
0.04
0.02

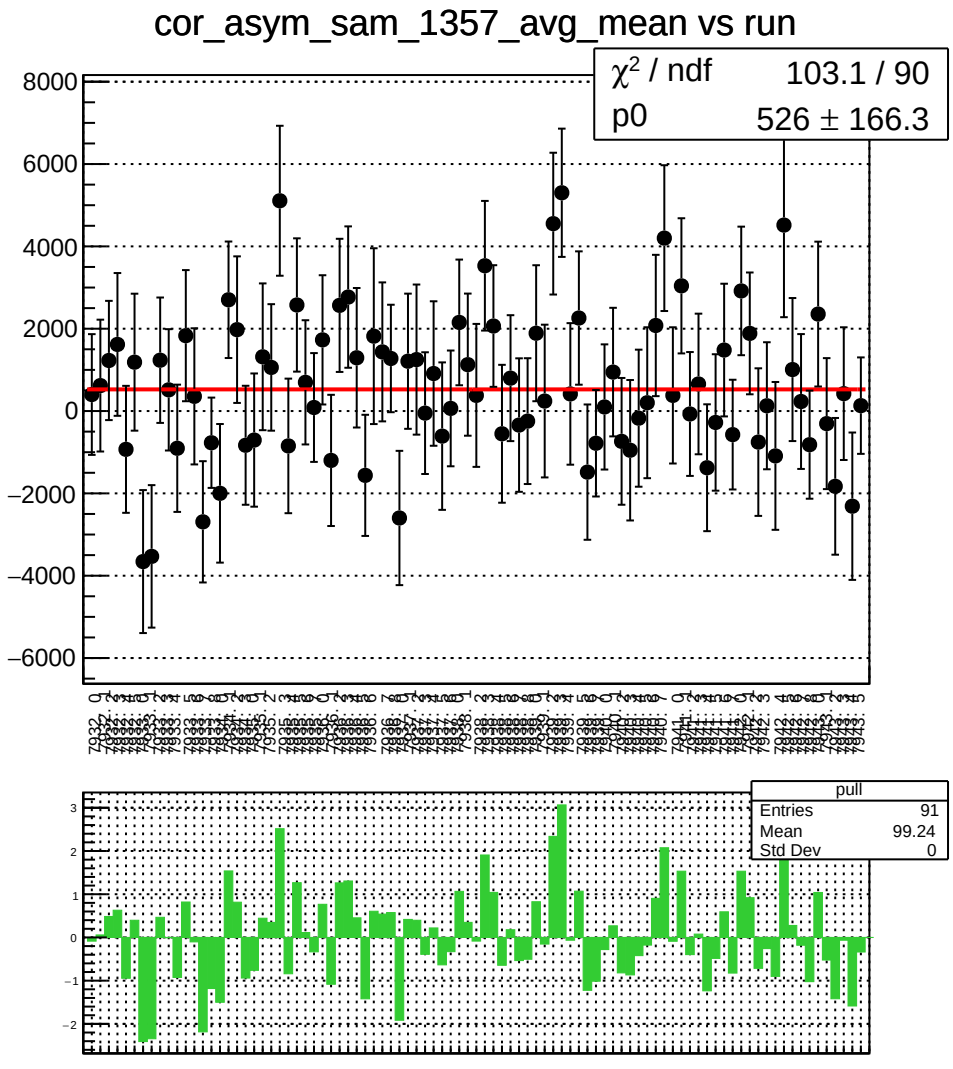

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 103.1 / 90
p0 526 ± 166.3
pull
Entries 91
Mean 99.24
Std Dev 0

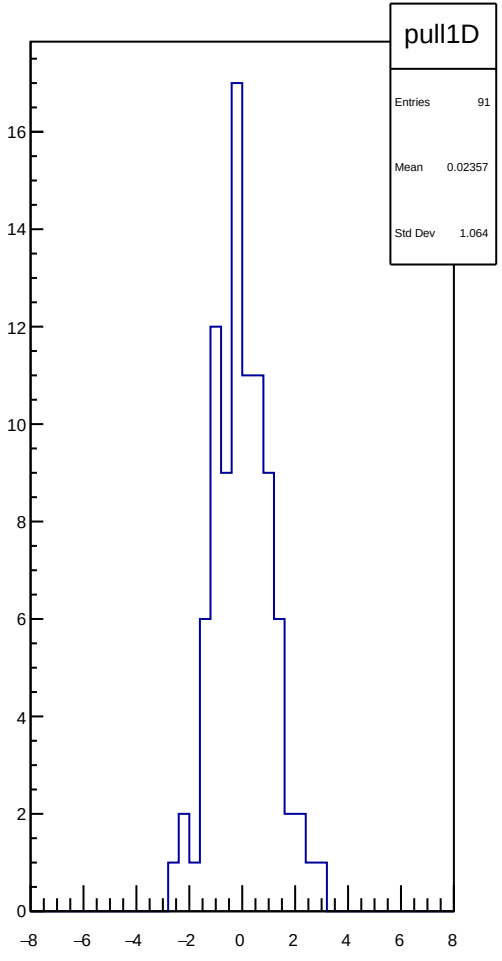

pull1D
Entries 91
Mean 0.02358
Std Dev 1.064

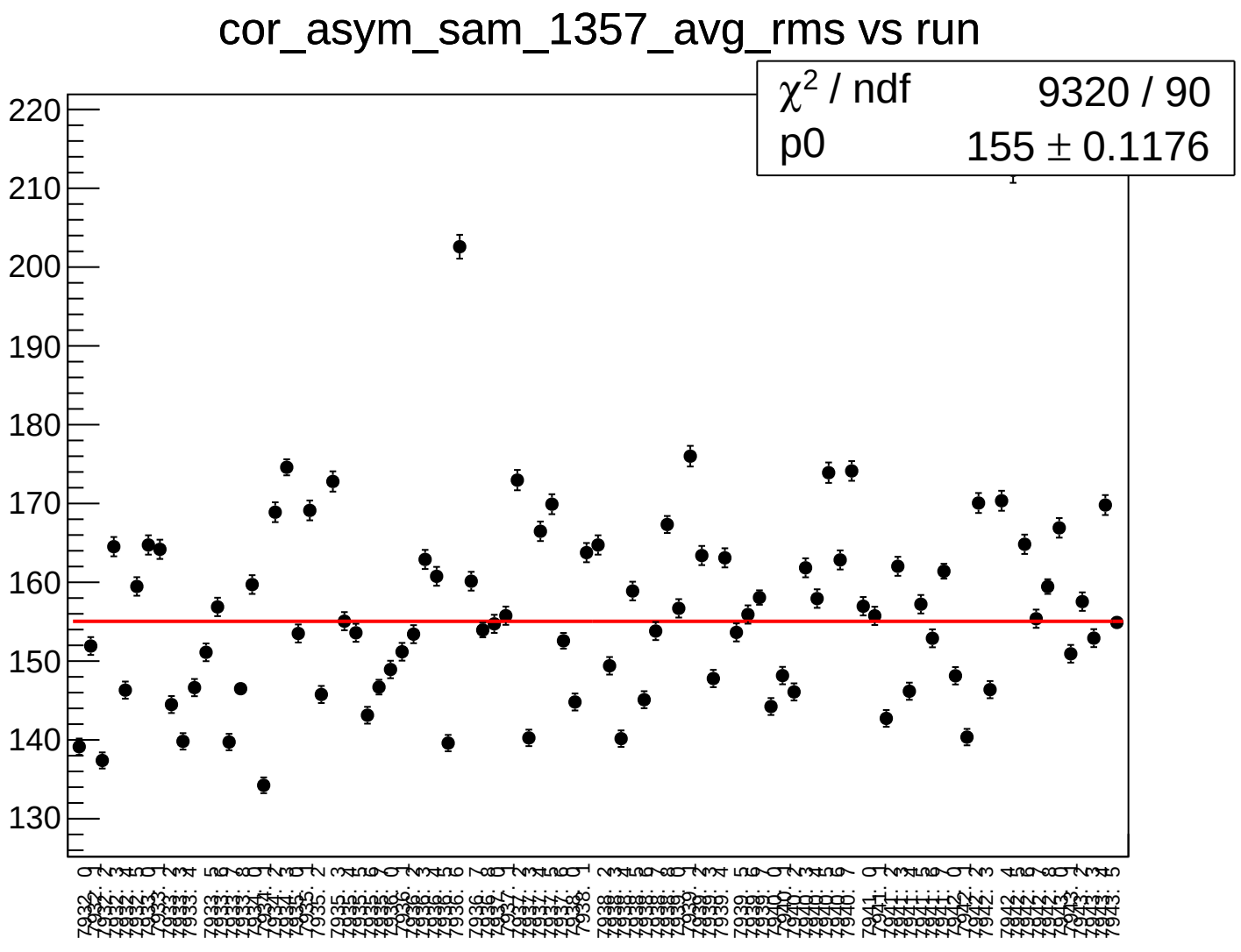

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9320 / 90
p0 155 ± 0.1176
220
210
200
190
180
170
160
150
140
130

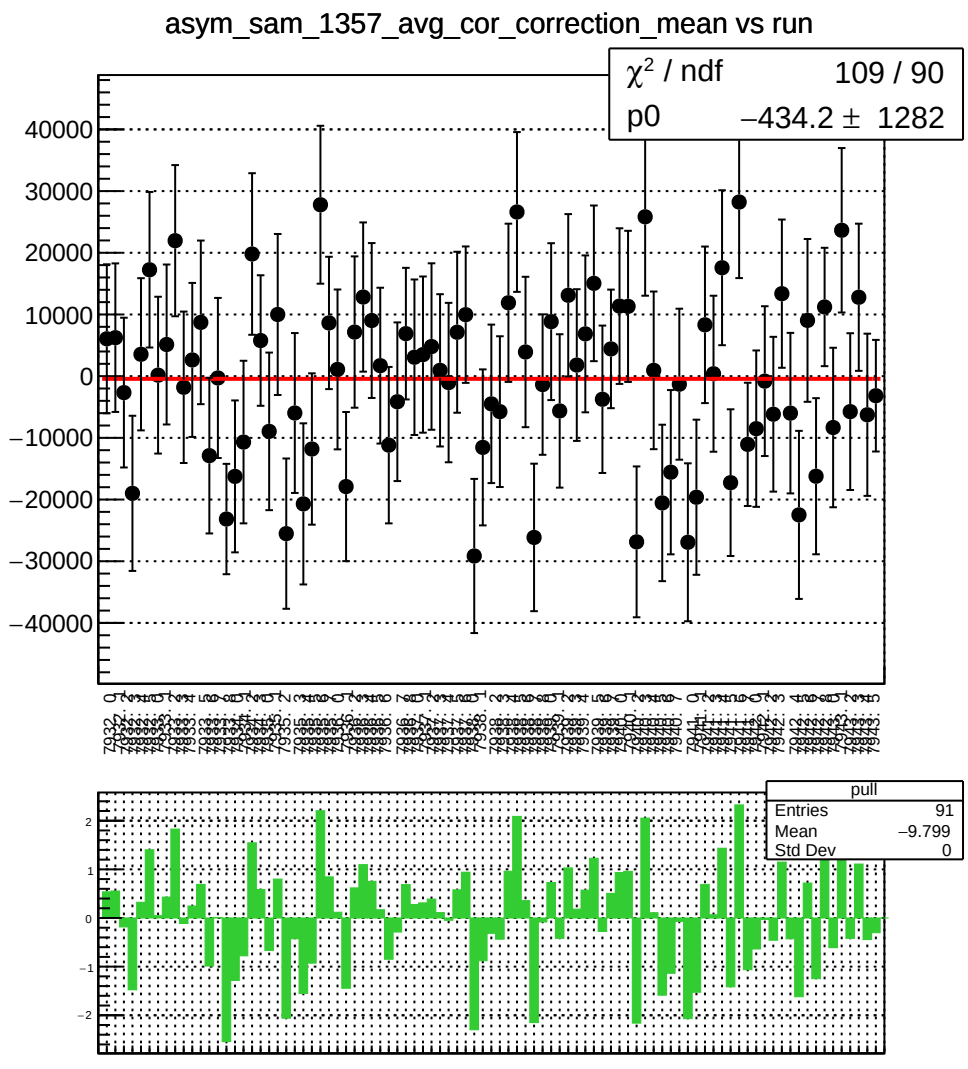

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 109 / 90
p0 −434.1± 1282
pull
Entries 91
Mean −9.793
Std Dev 0
pull1D
Entries 91
Mean 0.006857
Std Dev 1.094

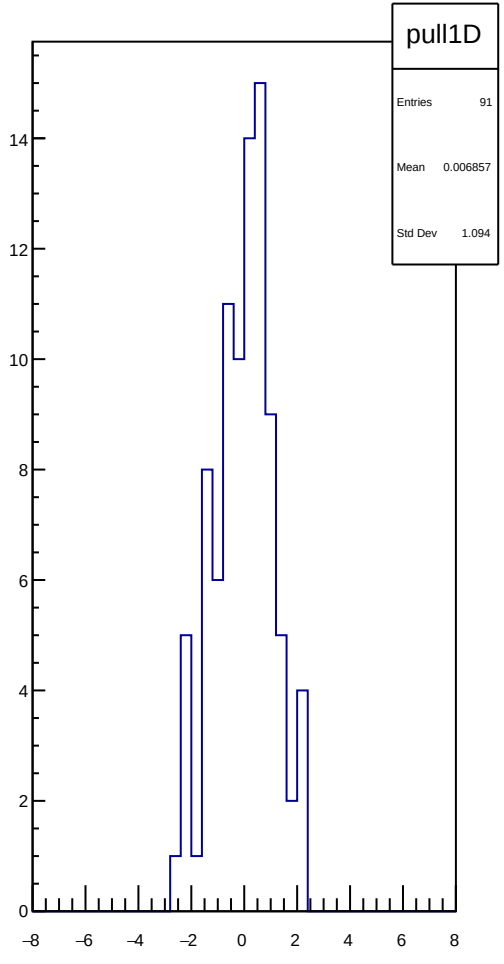

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1631 / 90
p0 1198 ± 0.9064
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

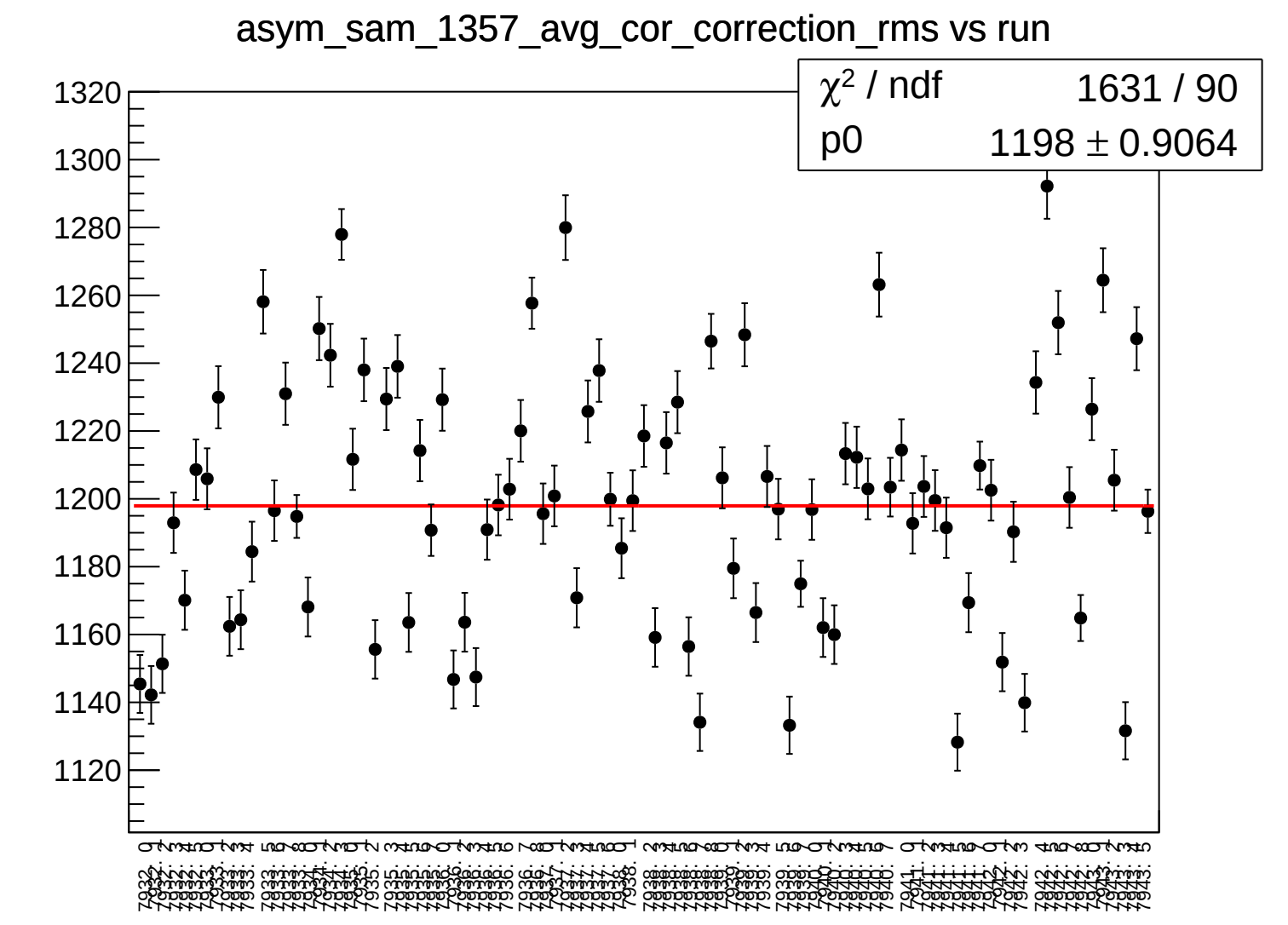

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 103.1 / 90
p0 526 ± 166.3
pull
Entries 91
Mean 99.24
Std Dev 0

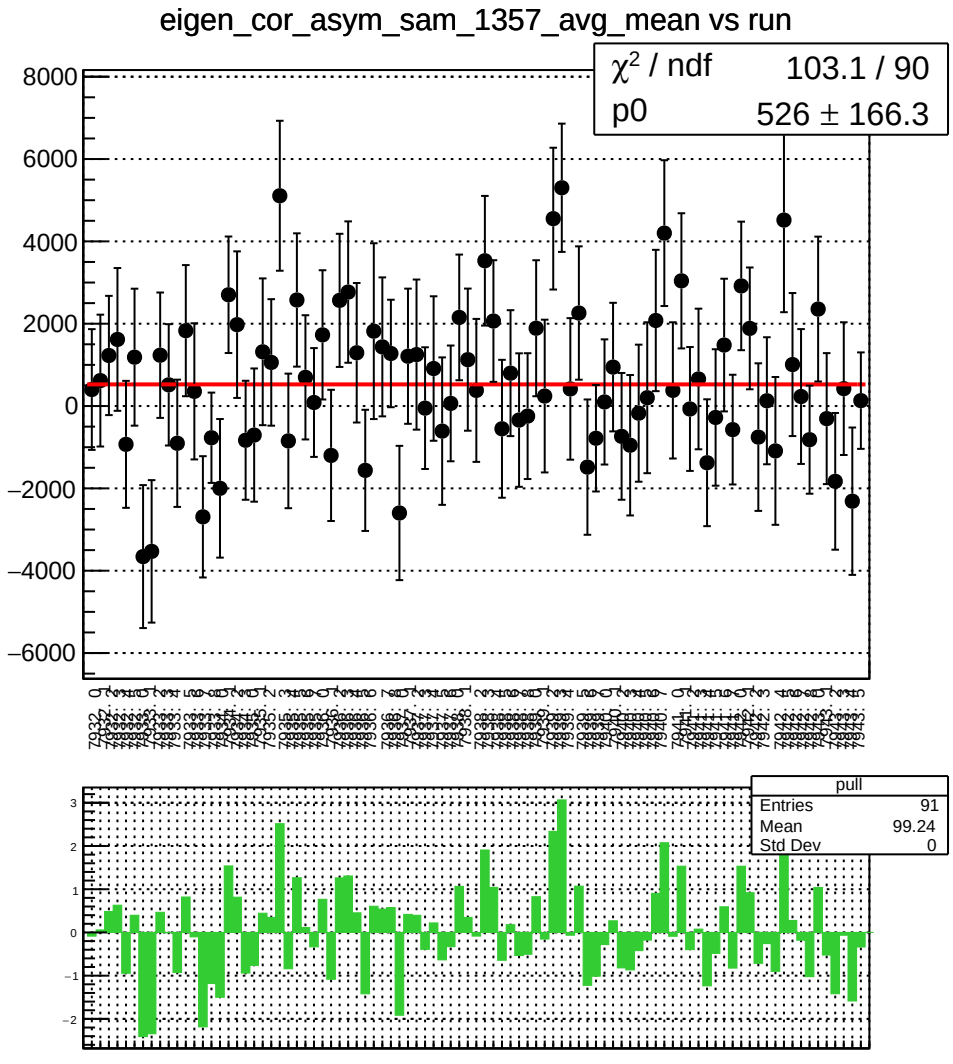

pull1D
Entries 91
Mean 0.02357
Std Dev 1.064

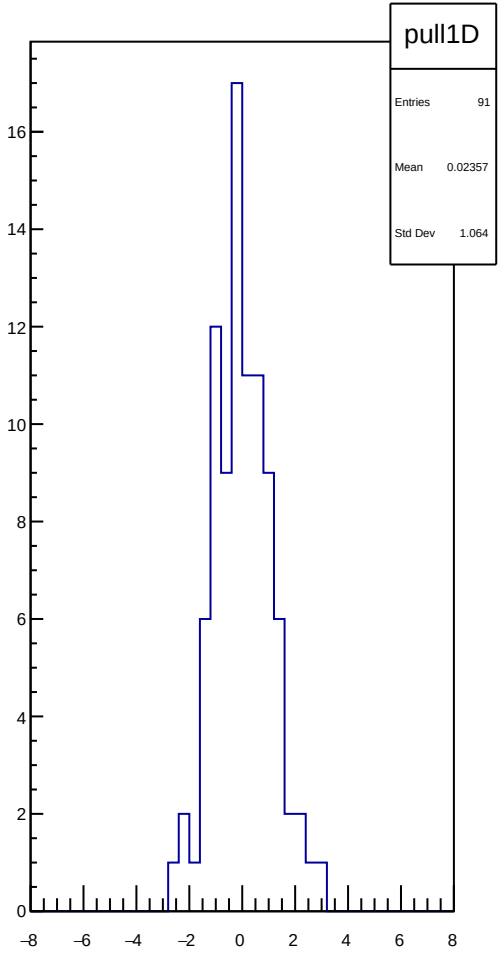

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9320 / 90
p0 155 ± 0.1176
220
210
200
190
180
170
160
150
140
130

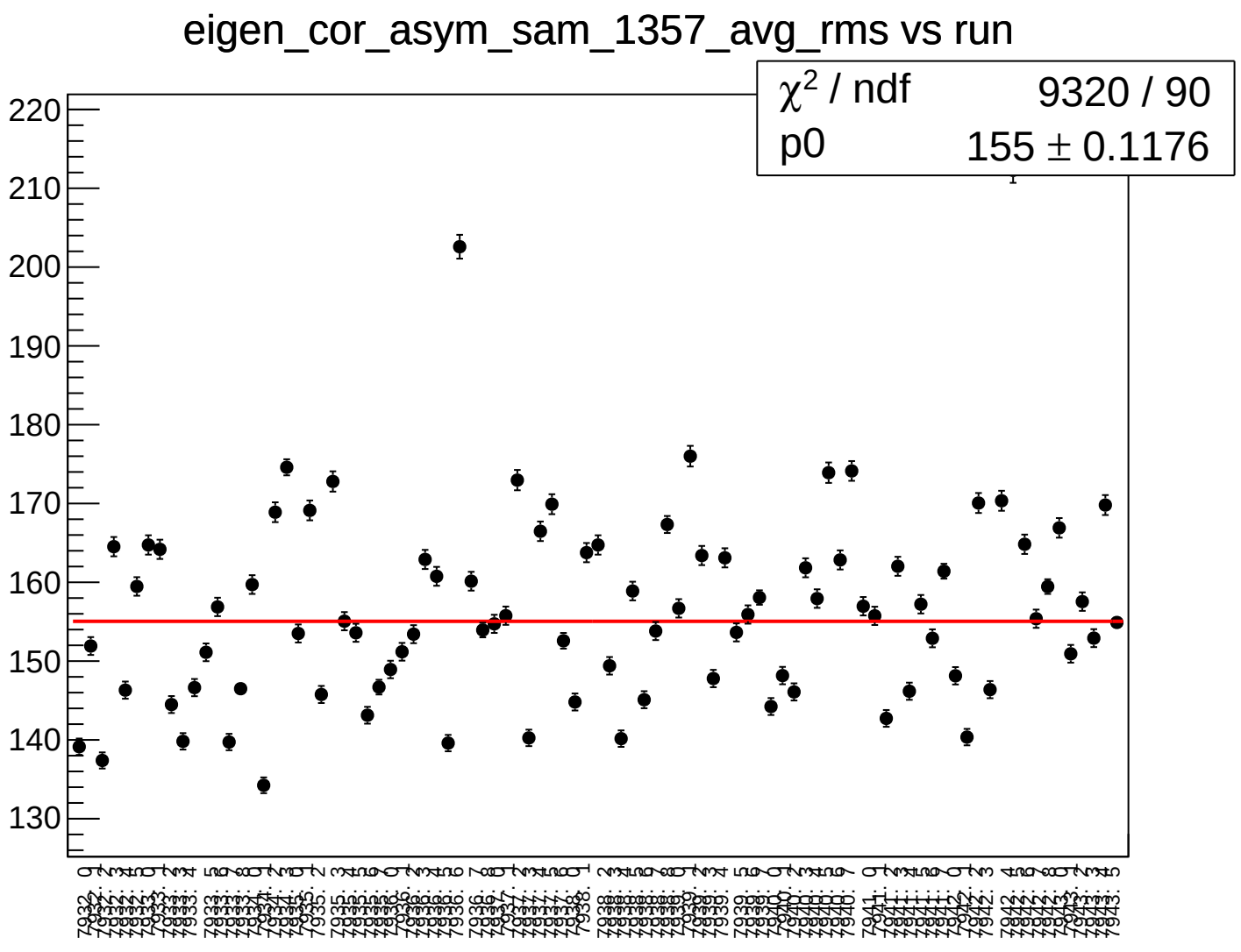

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 109 / 90
p0 −434.2 ± 1282
pull
Entries 91
Mean −9.799
Std Dev 0

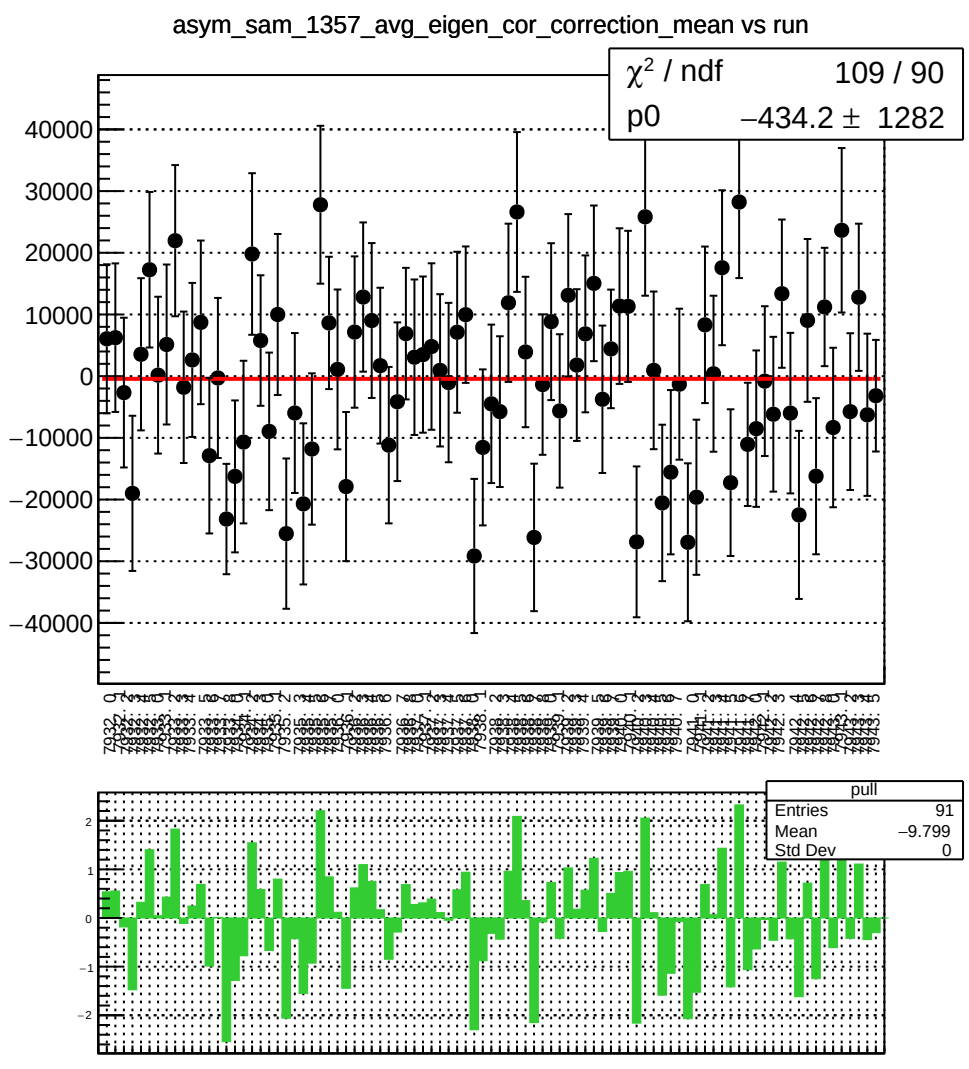

pull1D
Entries 91
Mean 0.006857
Std Dev 1.094

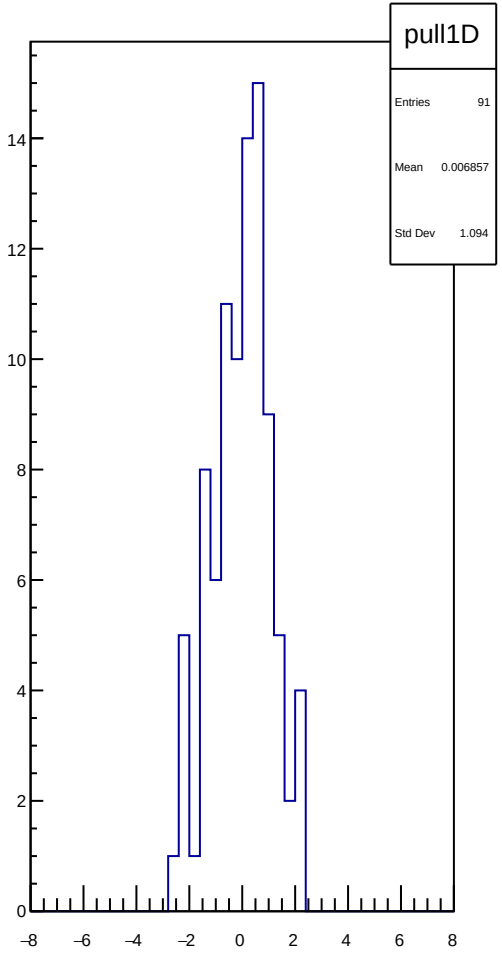

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1631 / 90
p0 1198 ± 0.9064
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

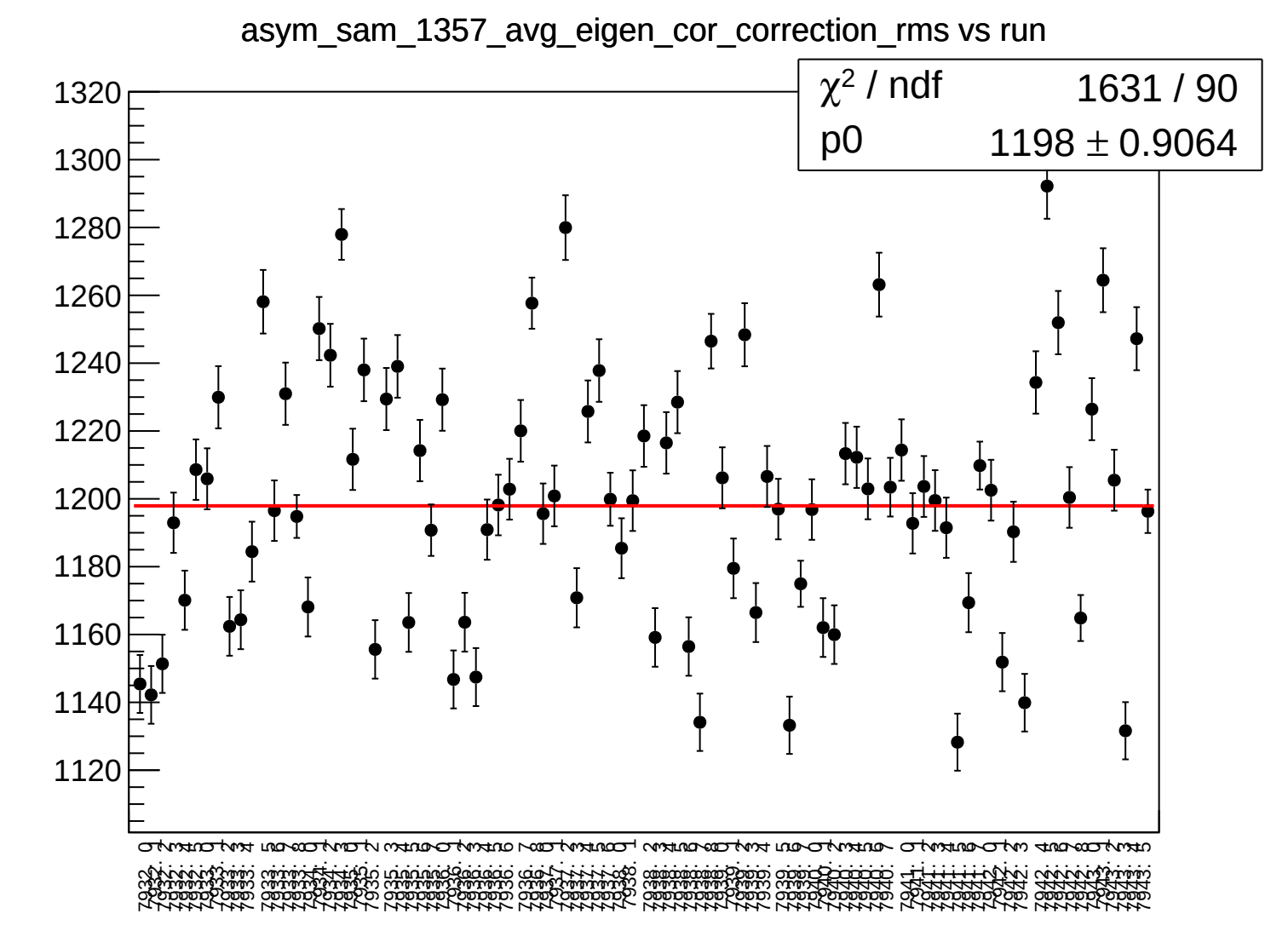

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 103.1 / 90
p0 526 ± 166.3
pull
Entries 91
Mean 99.24
Std Dev 0

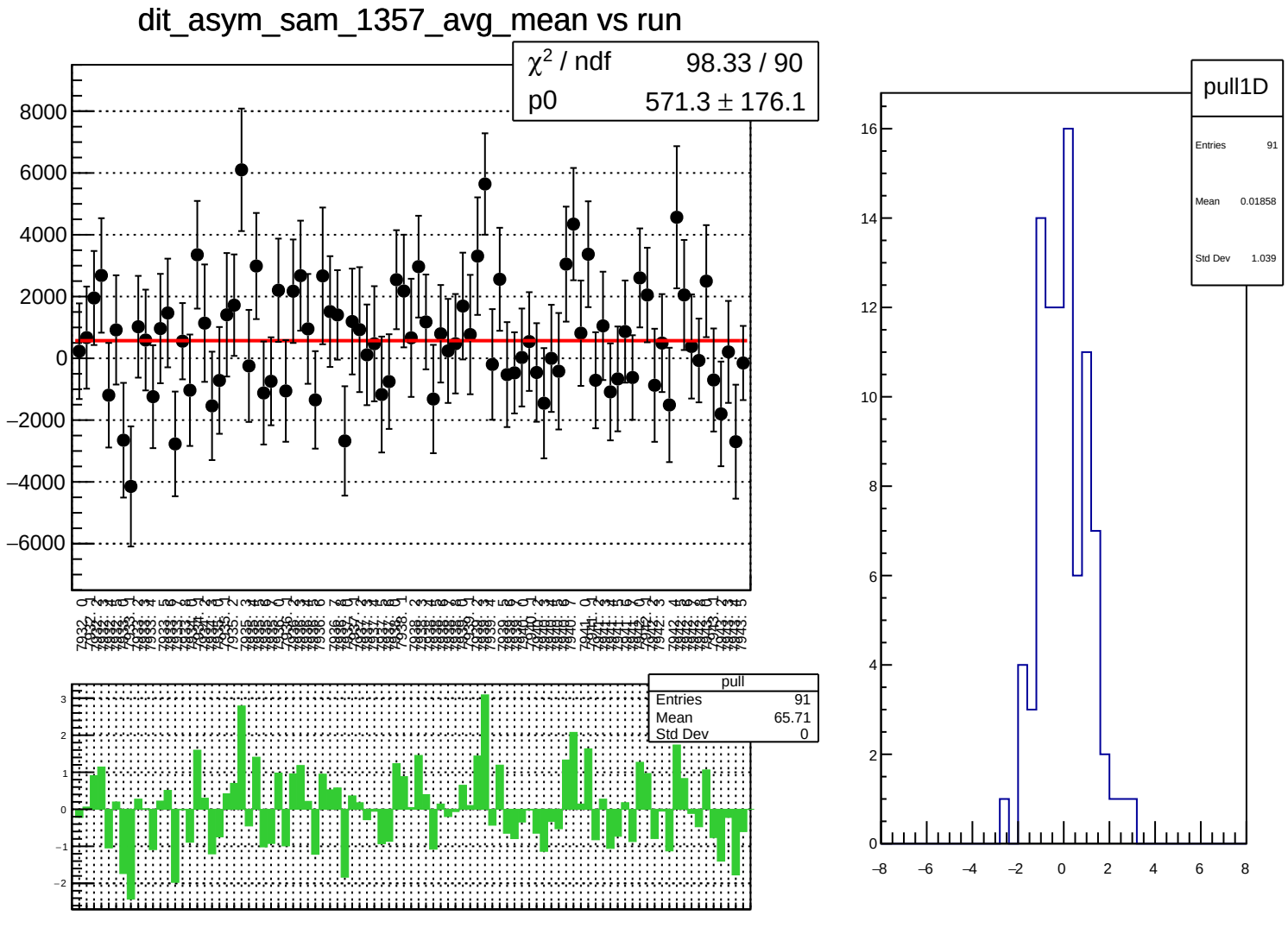

pull1D
Entries 91
Mean 0.02357
Std Dev 1.064

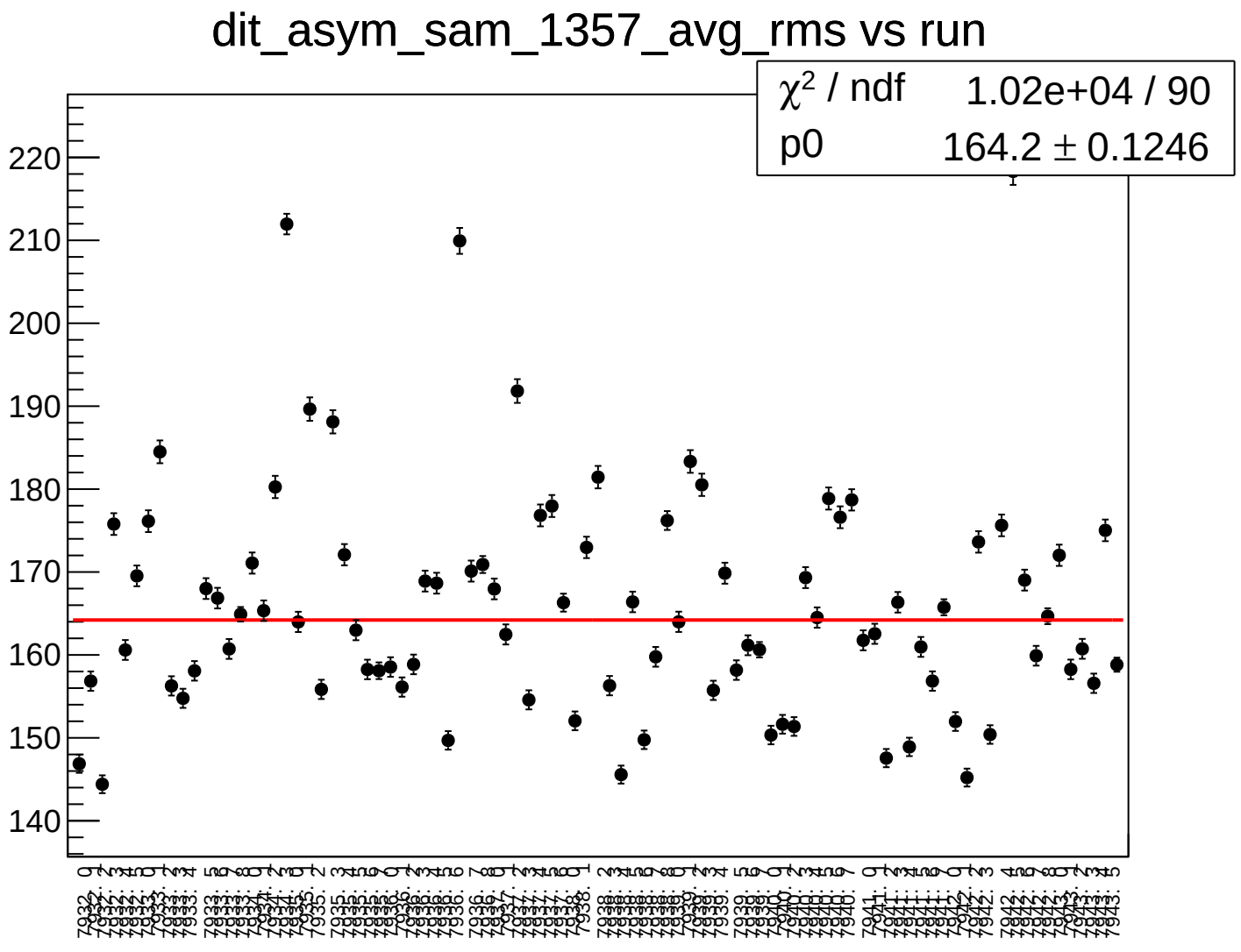

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9320 / 90
p0 155 ± 0.1176
220
210
200
190
180
170
160
150
140
130

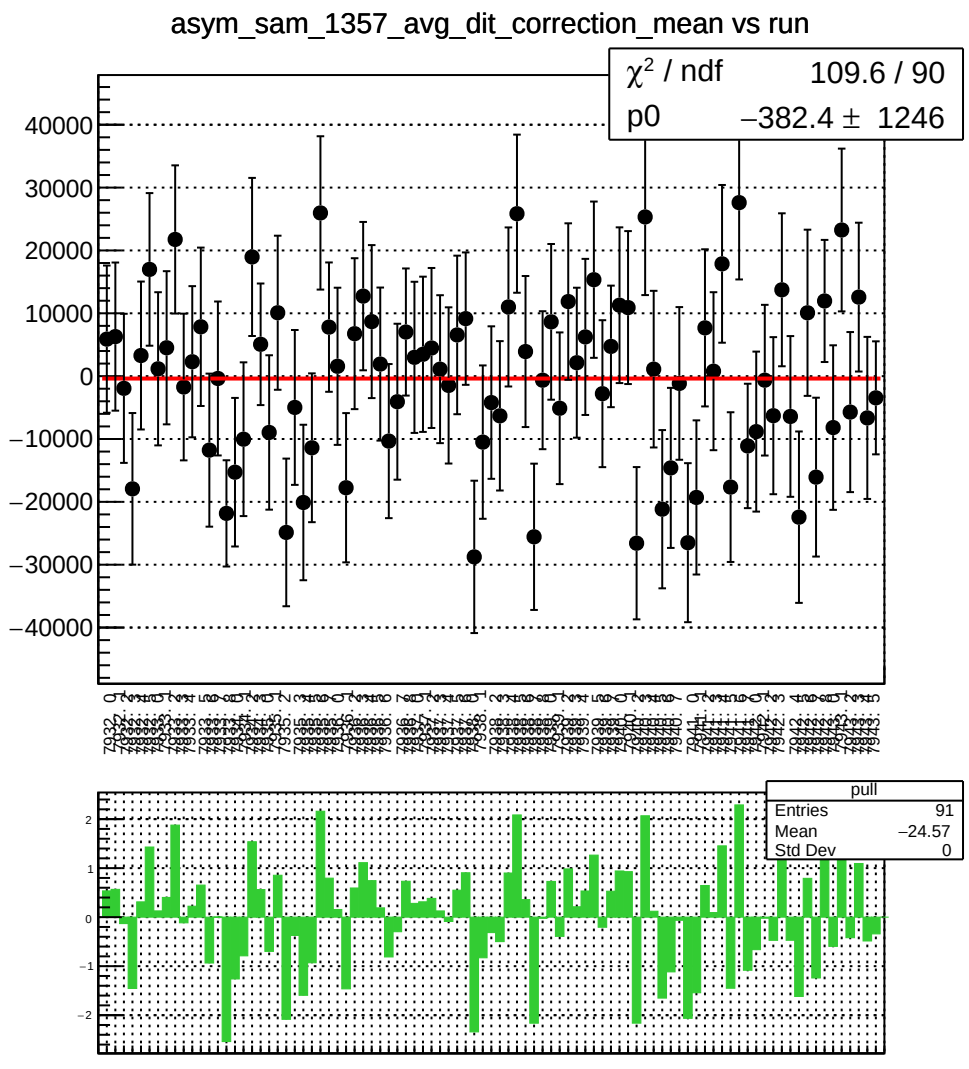

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 109 / 90
p0 −434.2 ± 1282
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −9.799
Std Dev 0
2
1
0
−1
−2

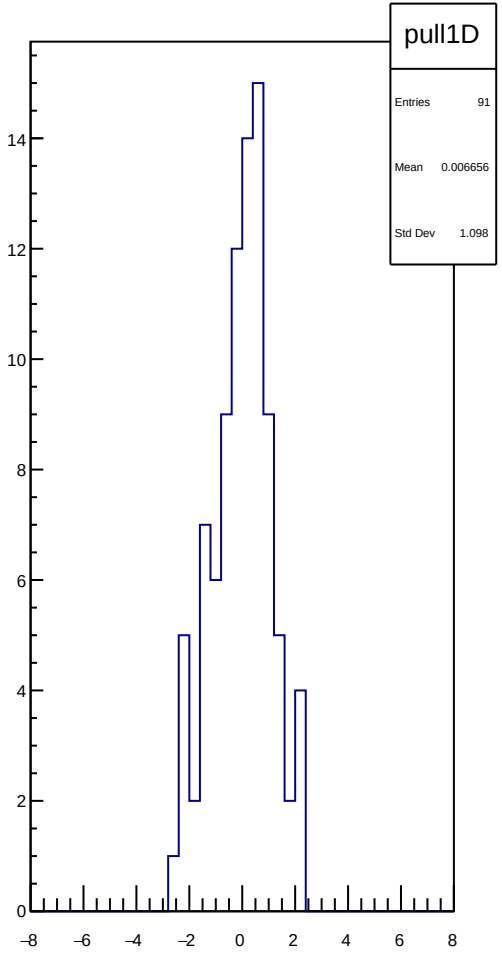

pull1D
Entries 91
Mean 0.006857
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

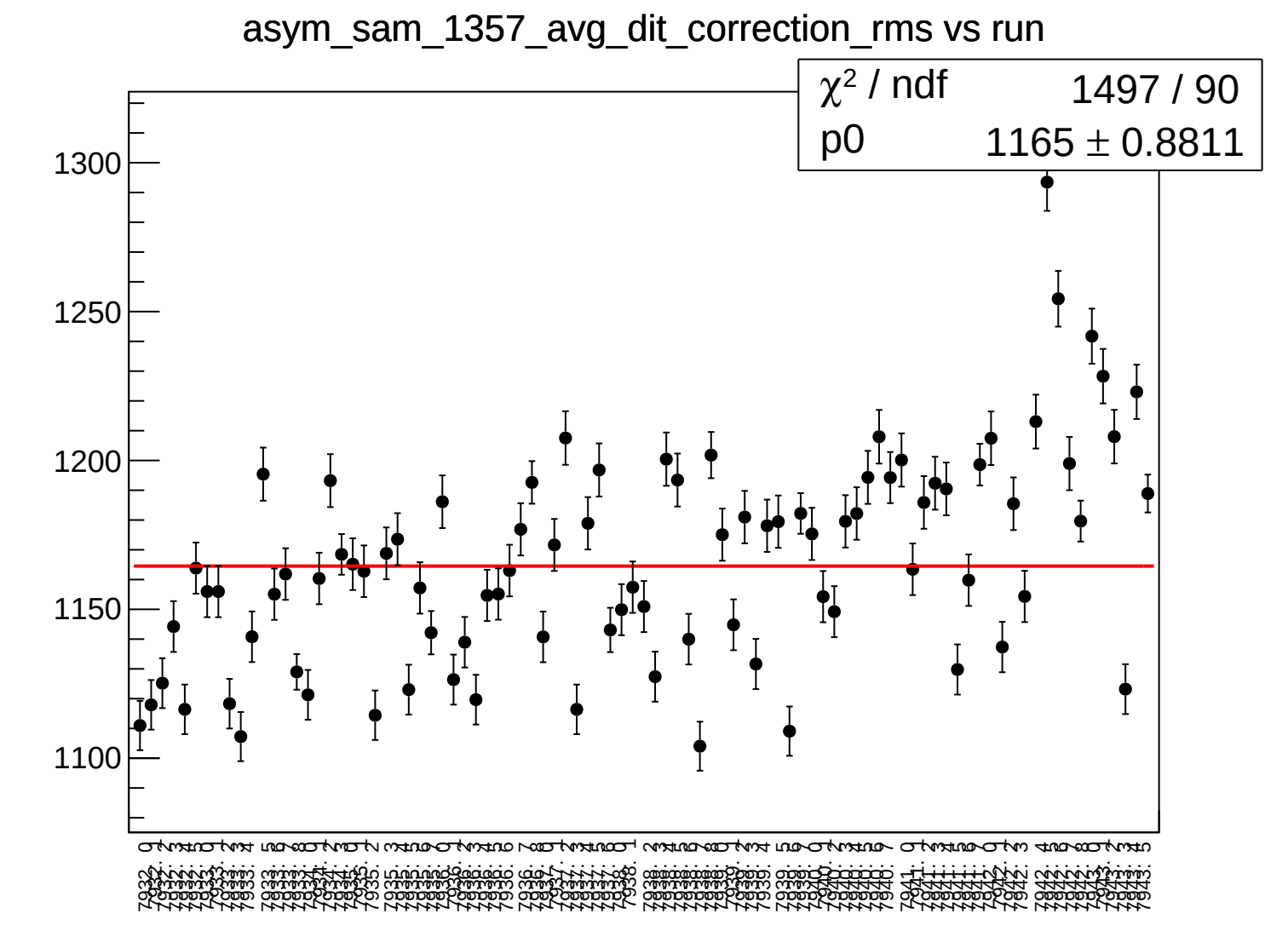

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1631 / 90
p0 1198 ± 0.9064
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

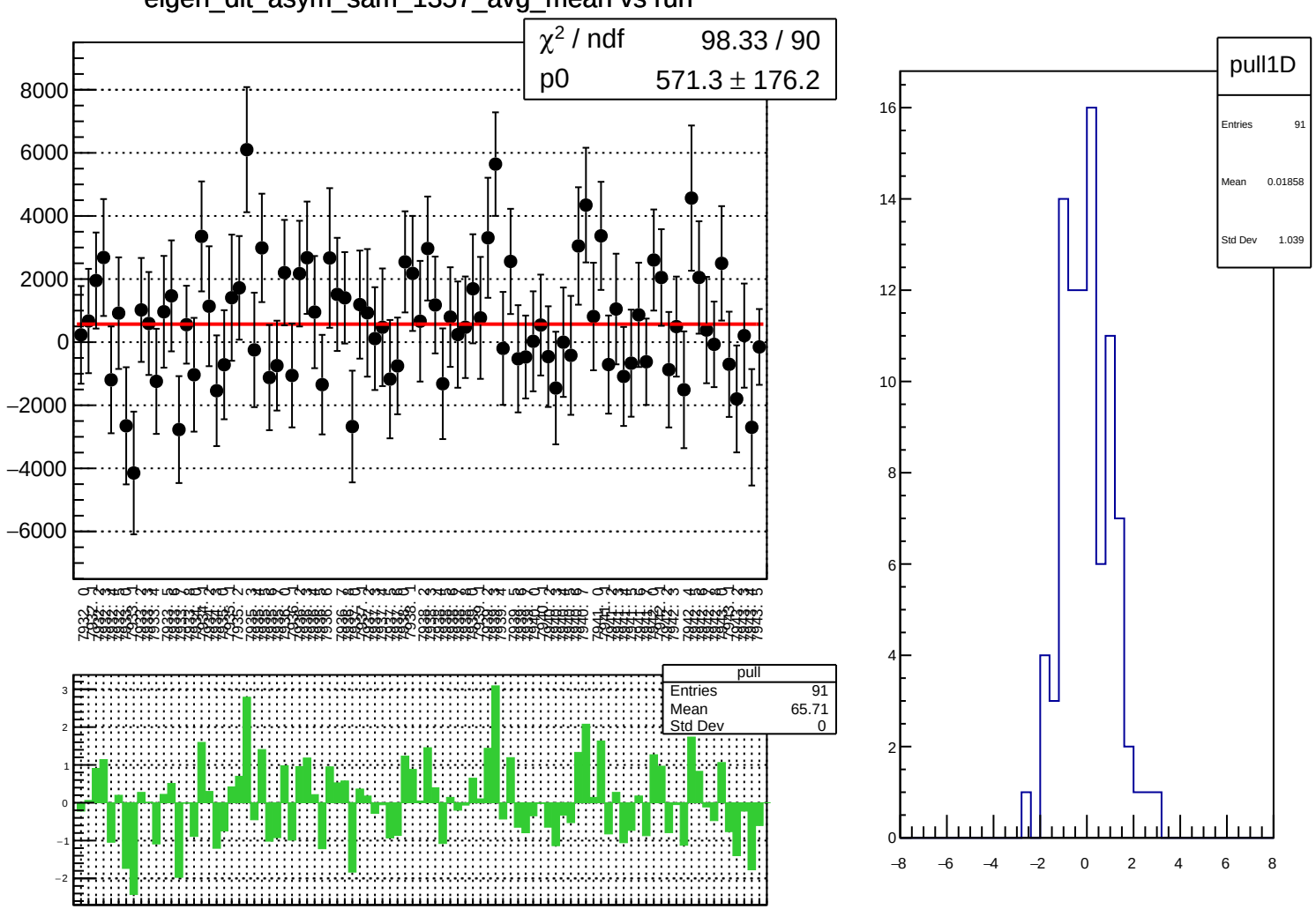

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 98.33 / 90
p0 571.3 ± 176.1
pull
Entries 91
Mean 65.71
Std Dev 0
pull1D
Entries 91
Mean 0.01858
Std Dev 1.039

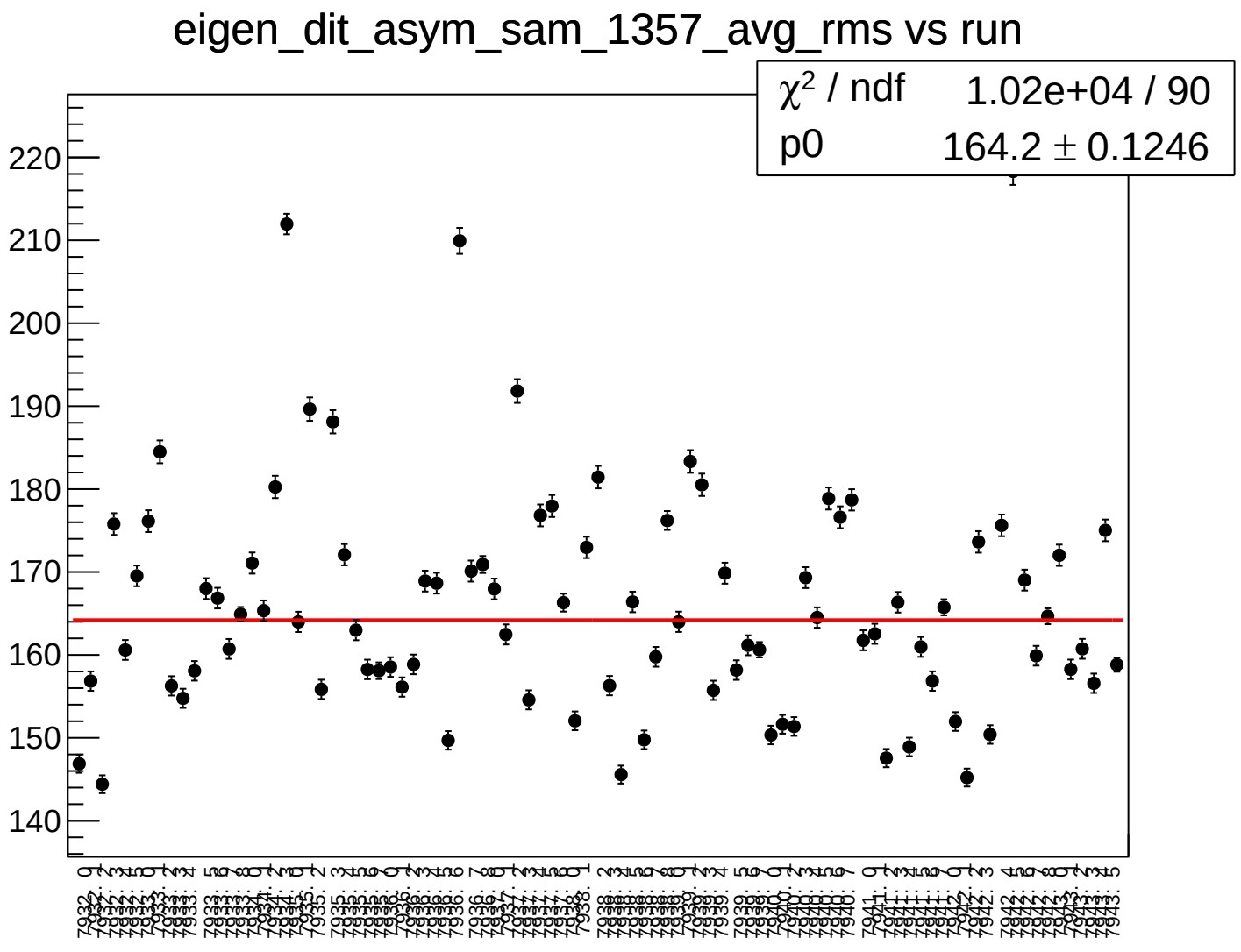

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.02e+04 / 90
p0 164.2 ± 0.1246
220
210
200
190
180
170
160
150
140

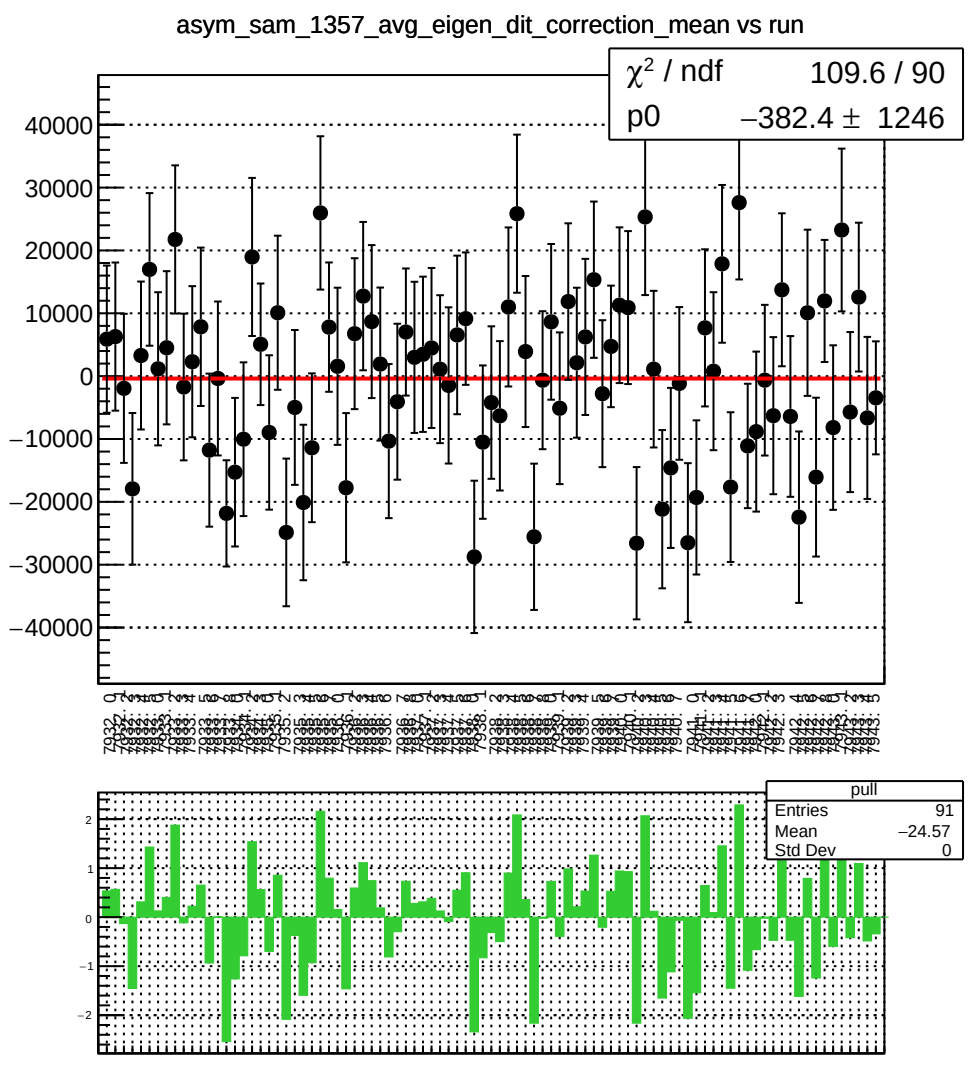

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 109.6 / 90
p0 −382.4 ± 1246
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −24.57
Std Dev 0
2
1
0
−1
−2

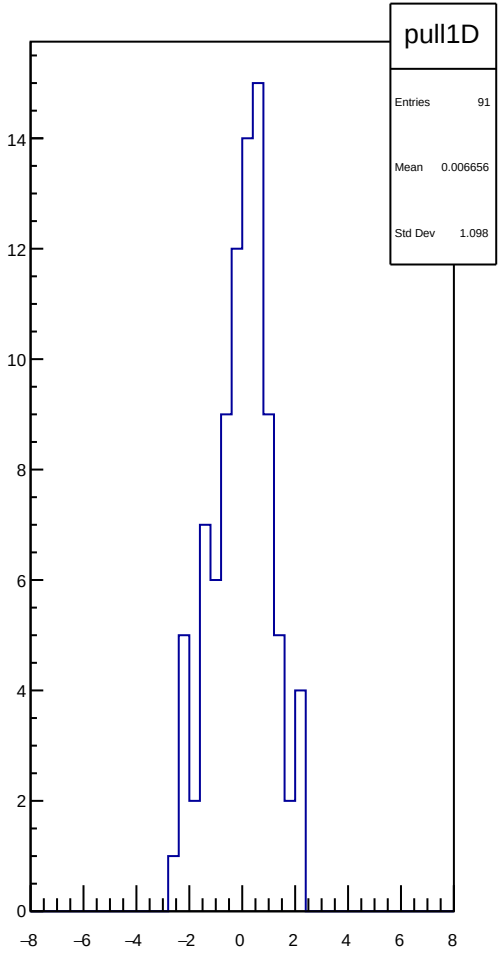

pull1D
Entries 91
Mean 0.006656
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

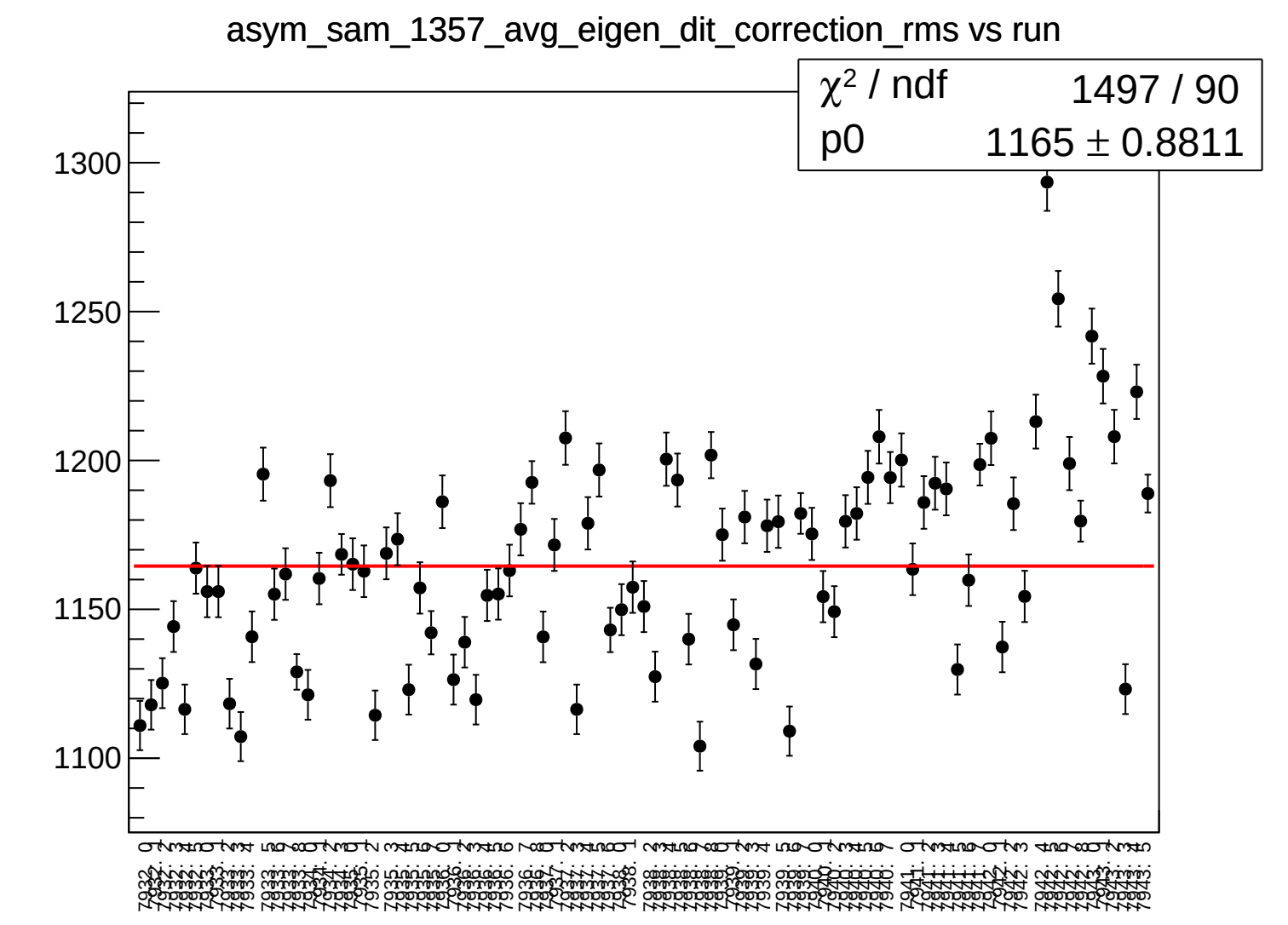

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1497 / 90
p0 1165 ± 0.8811
1300
1250
1200
1150
1100

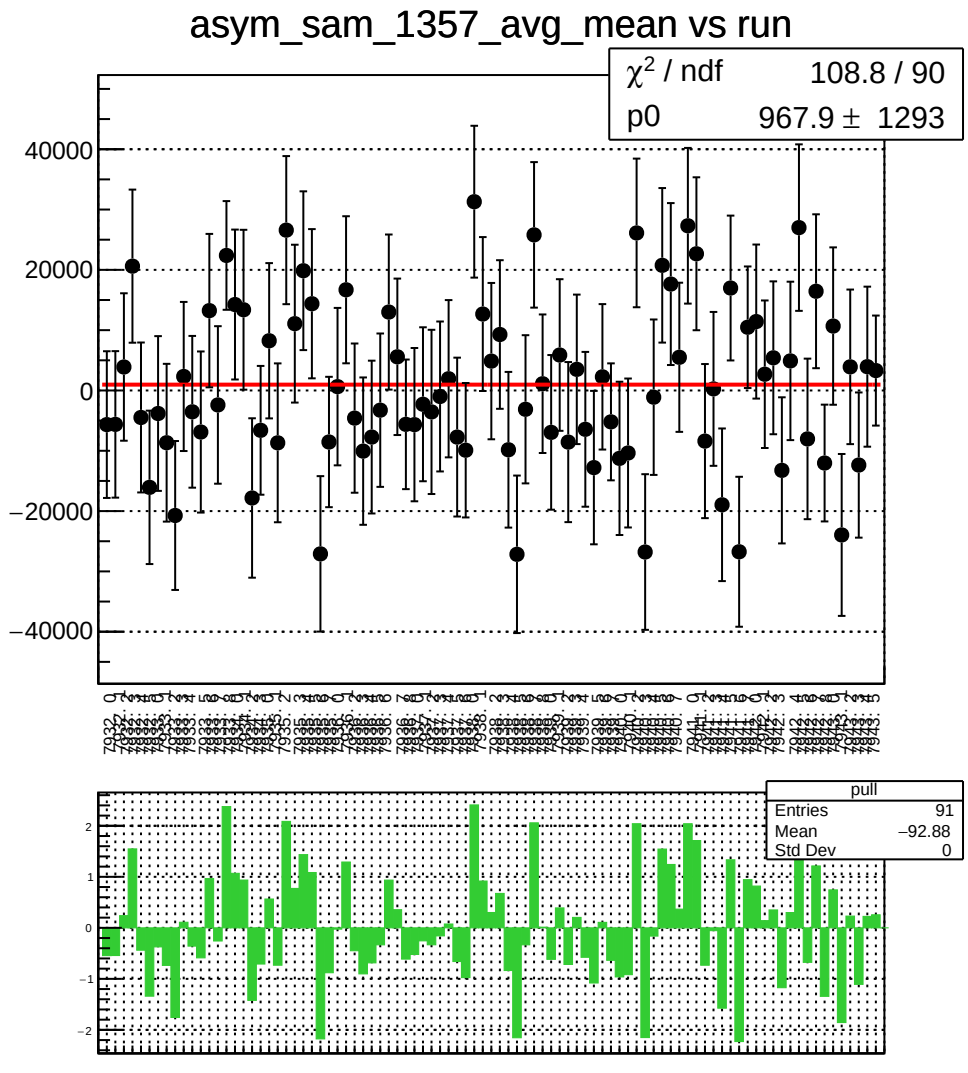

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 98.33 / 90
p0 571.3 ± 176.2
pull
Entries 91
Mean 65.71
Std Dev 0
pull1D
Entries 91
Mean 0.01858
Std Dev 1.039

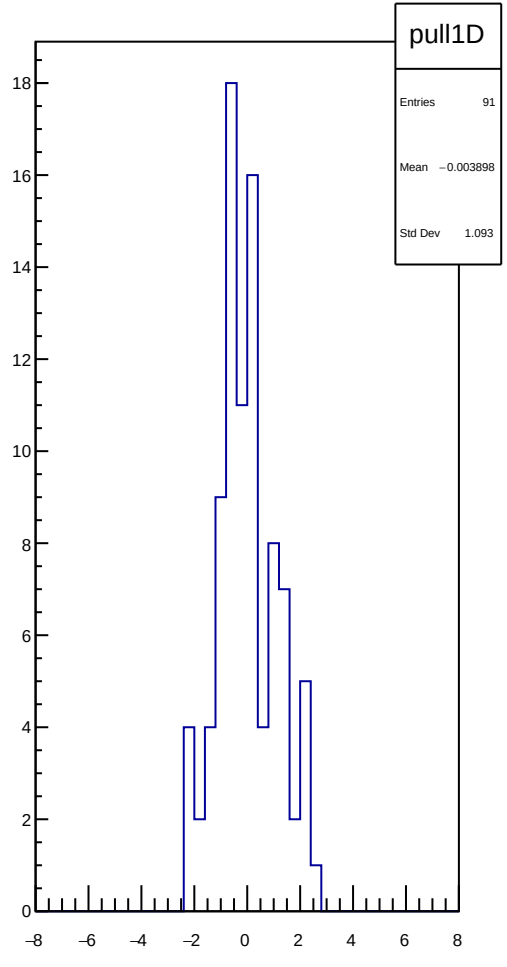

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.02e+04 / 90
p0 164.2 ± 0.1246
220
210
200
190
180
170
160
150
140

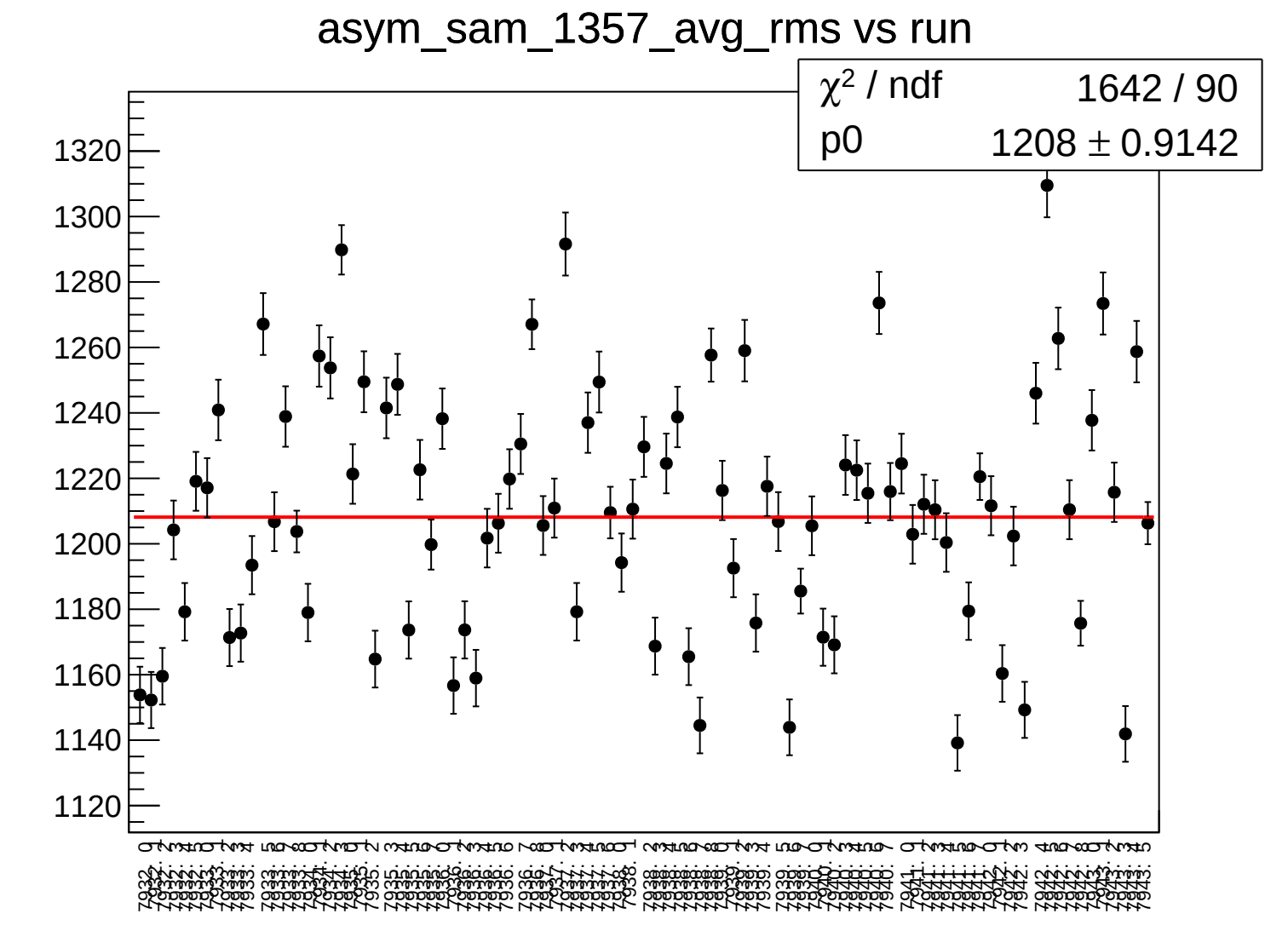

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 109.6 / 90
p0 −382.4 ± 1246
pull
Entries 91
Mean −24.57
Std Dev 0

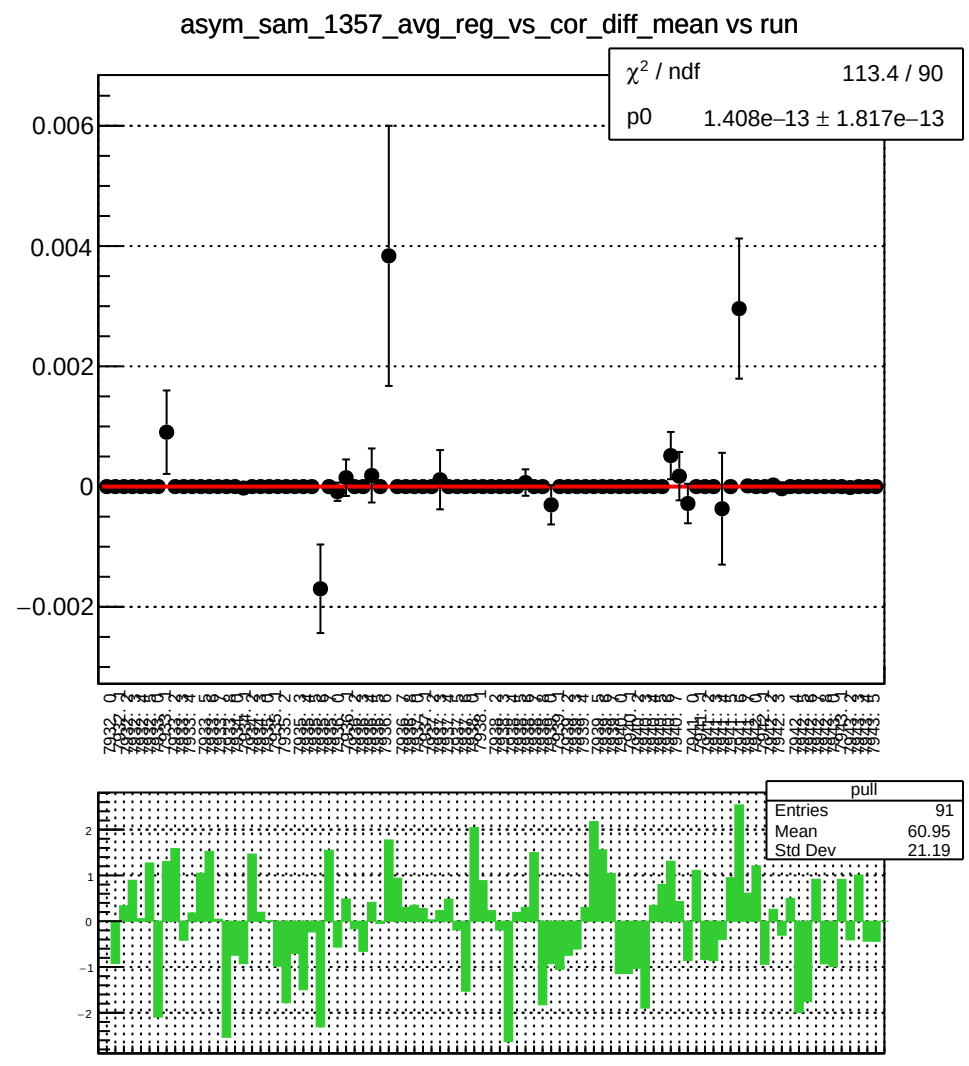

pull1D
Entries 91
Mean 0.006656
Std Dev 1.098

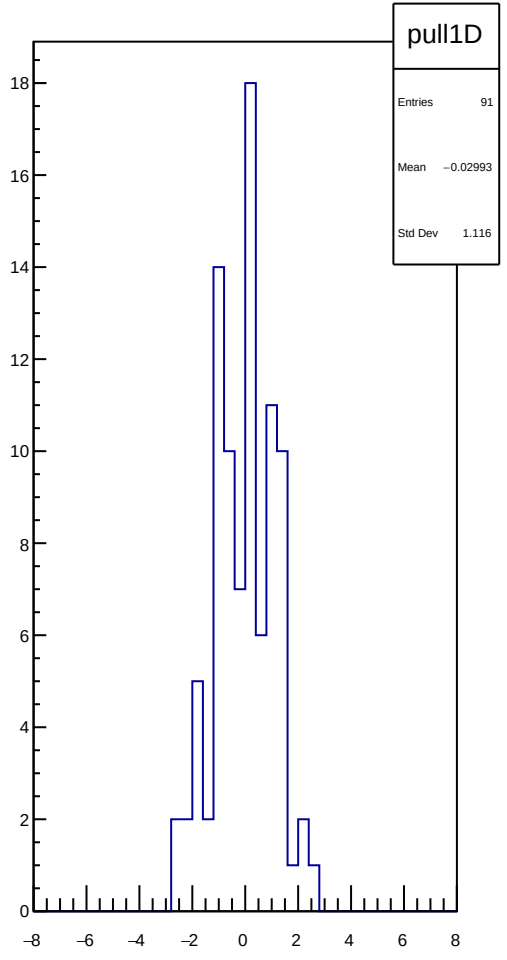

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1497 / 90
p0 1165 ± 0.8811
1300
1250
1200
1150
1100

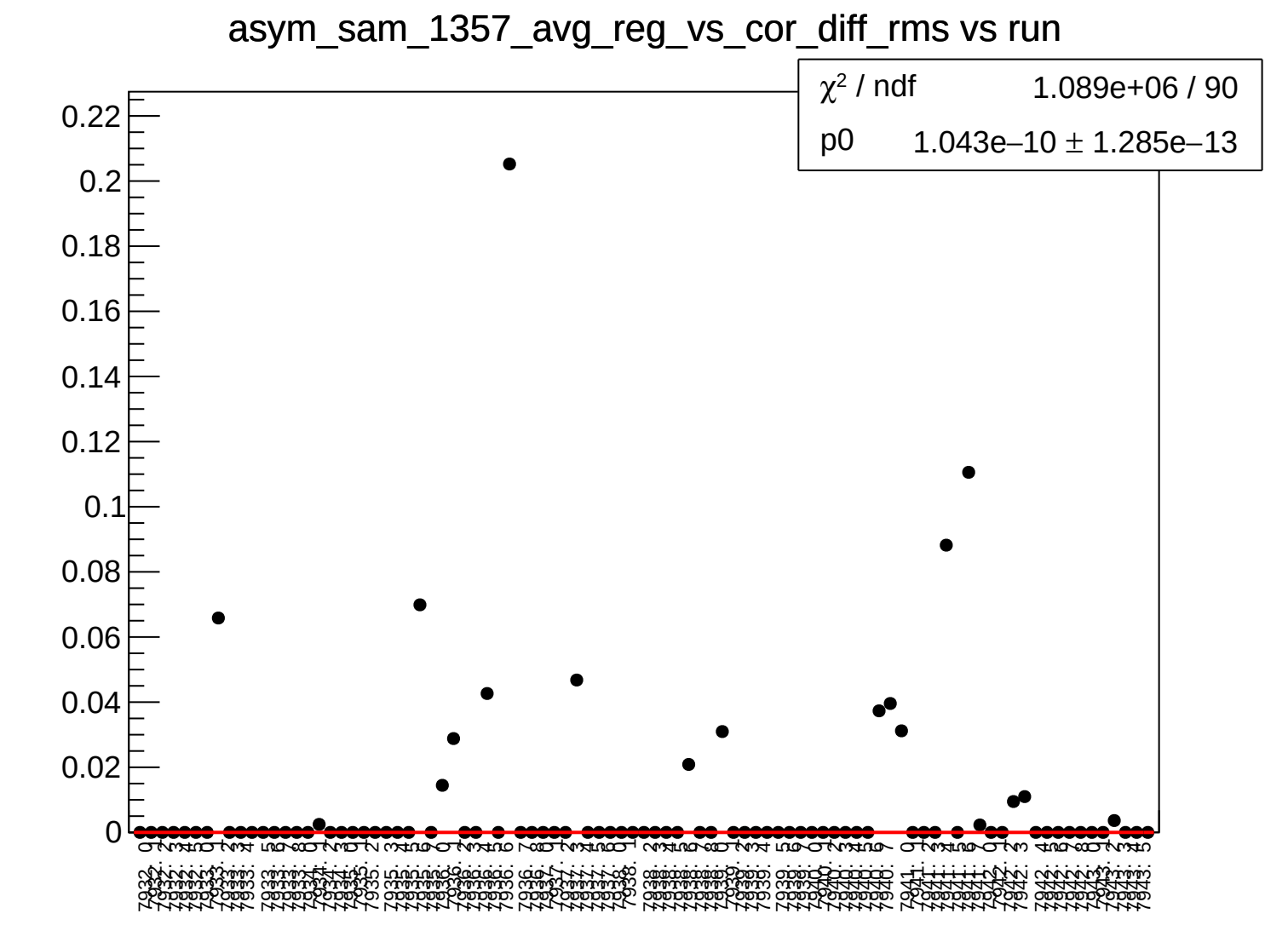

asym_sam_1357_avg_mean vs run
χ² / ndf 108.8 / 90
p0 967.9 ± 1293
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −92.88
Std Dev 0
2
1
0
−1
−2

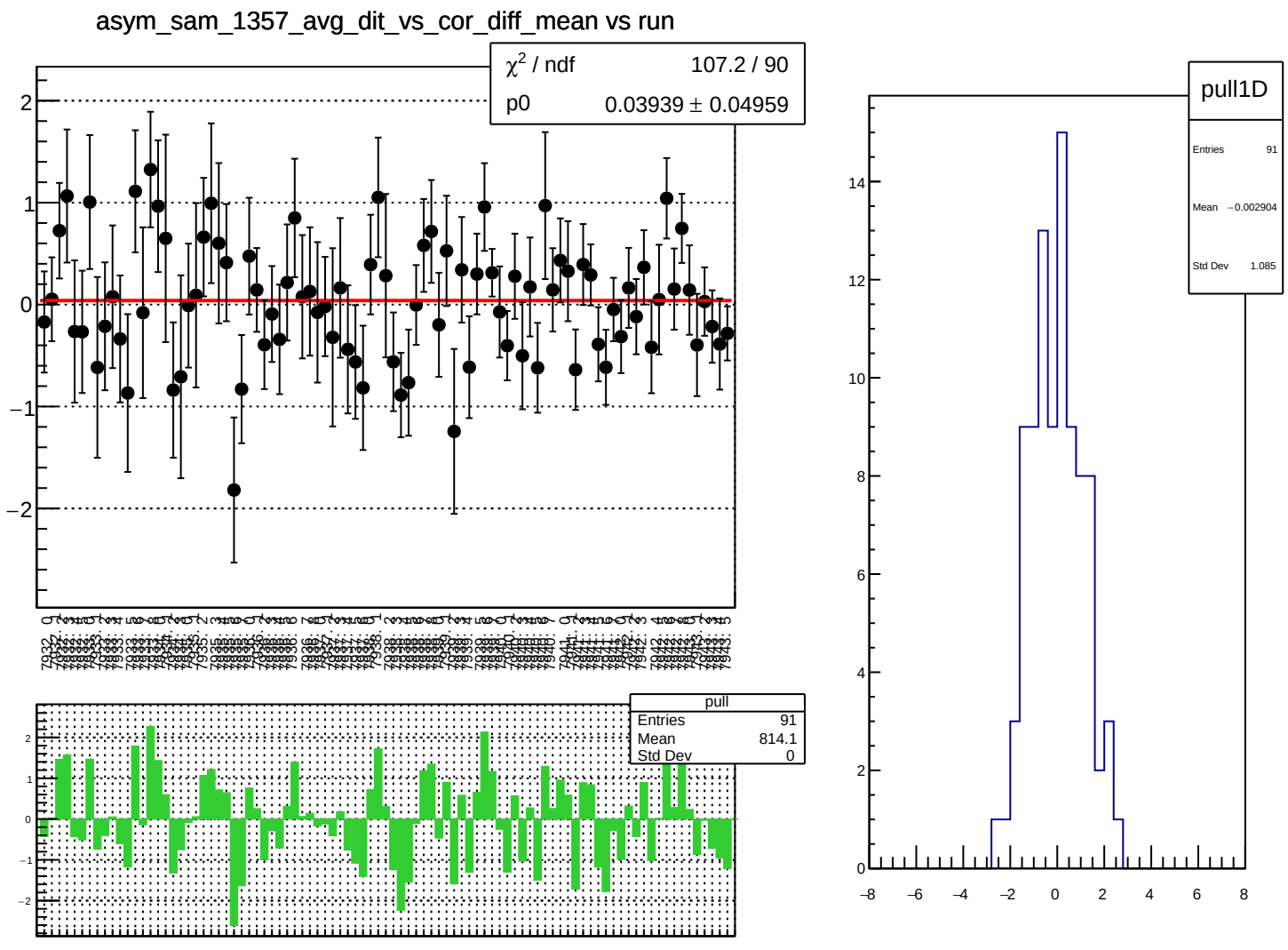

pull1D
Entries 91
Mean −0.003898
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

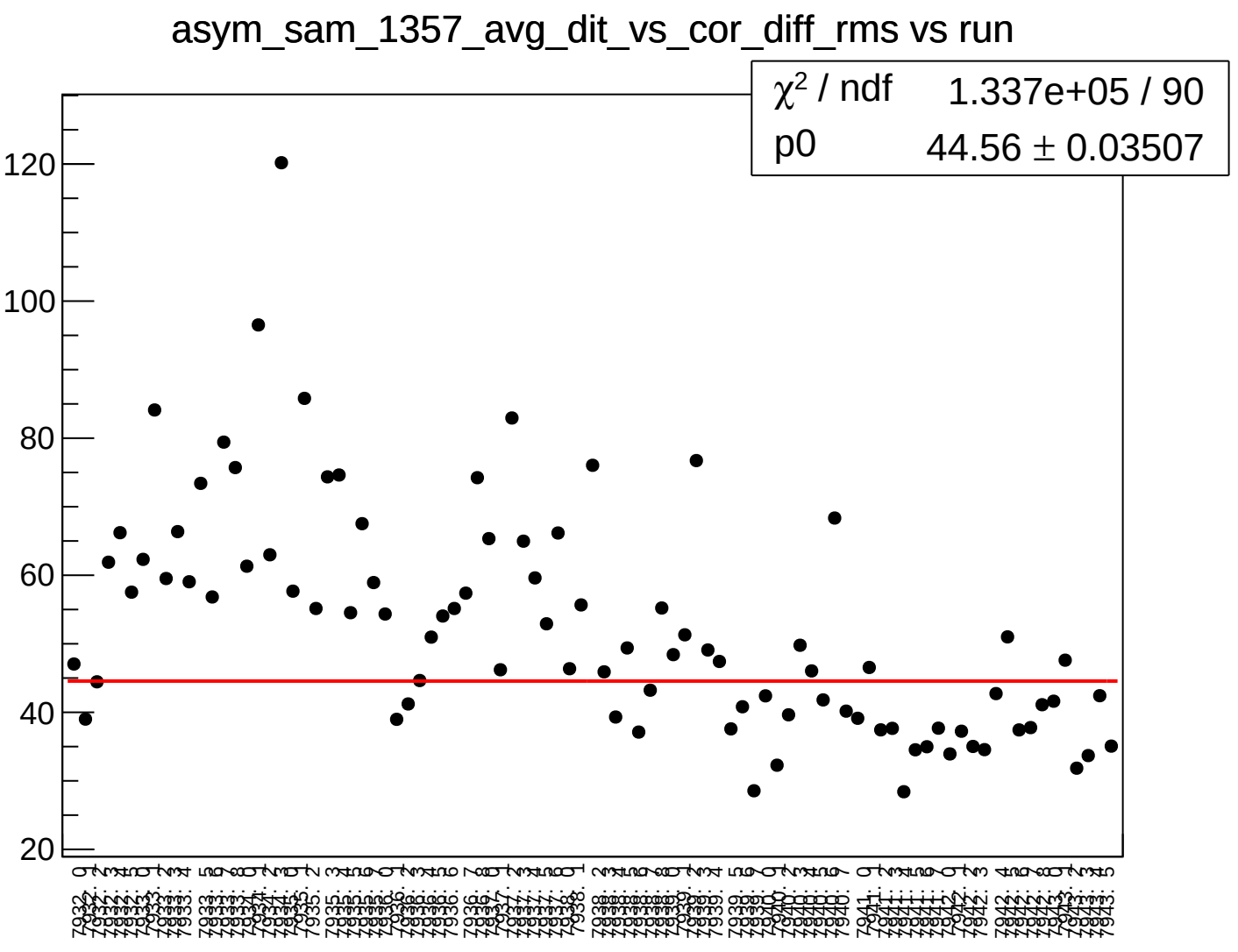

asym_sam_1357_avg_rms vs run
χ² / ndf 1642 / 90
p0 1208 ± 0.9142
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

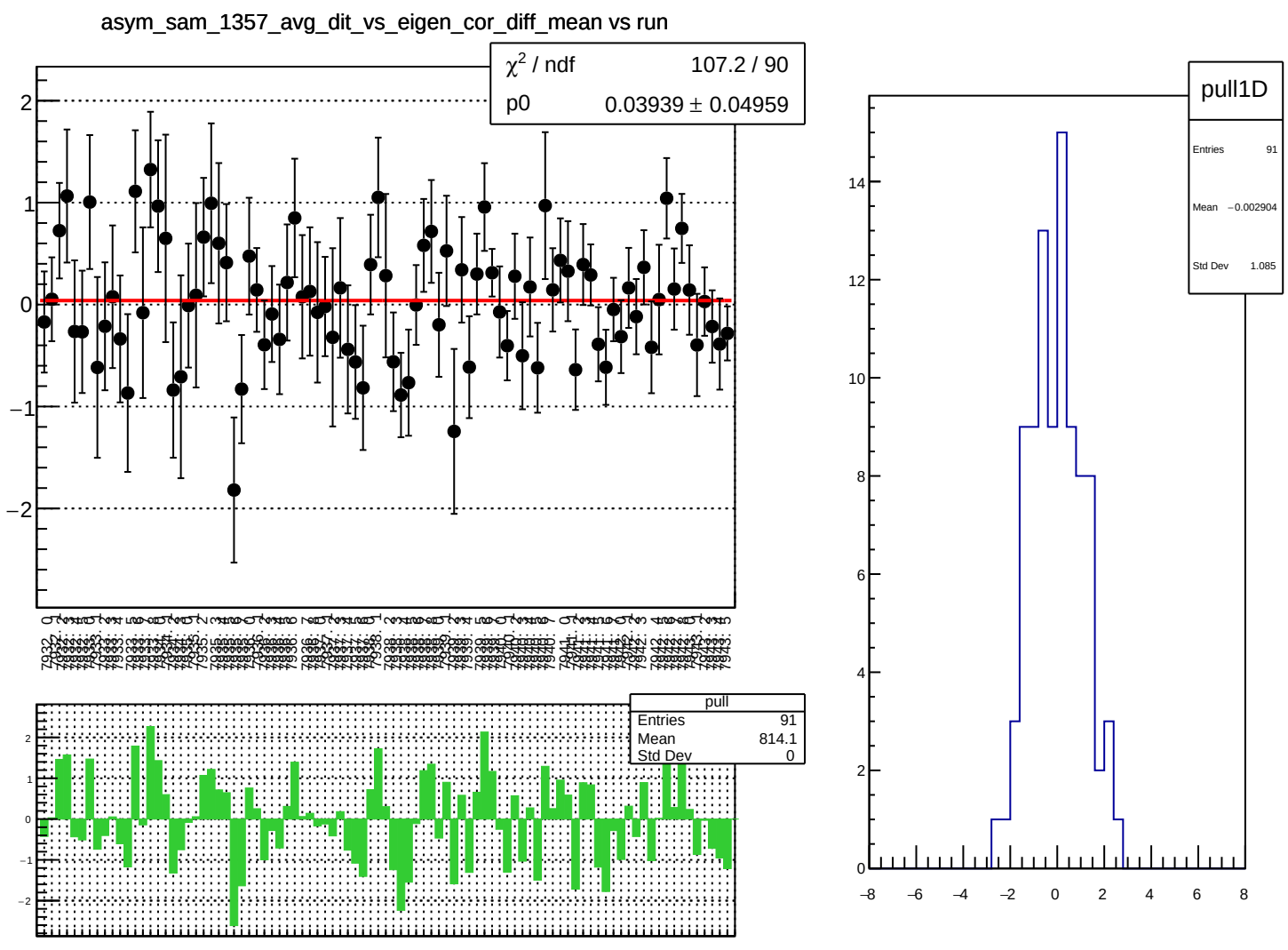

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 90
p0 1.408e−13 ± 1.817e−13
0.006
0.004
0.002
0
−0.002
pull
Entries 91
Mean 60.95
Std Dev 21.19
2
1
0
−1
−2

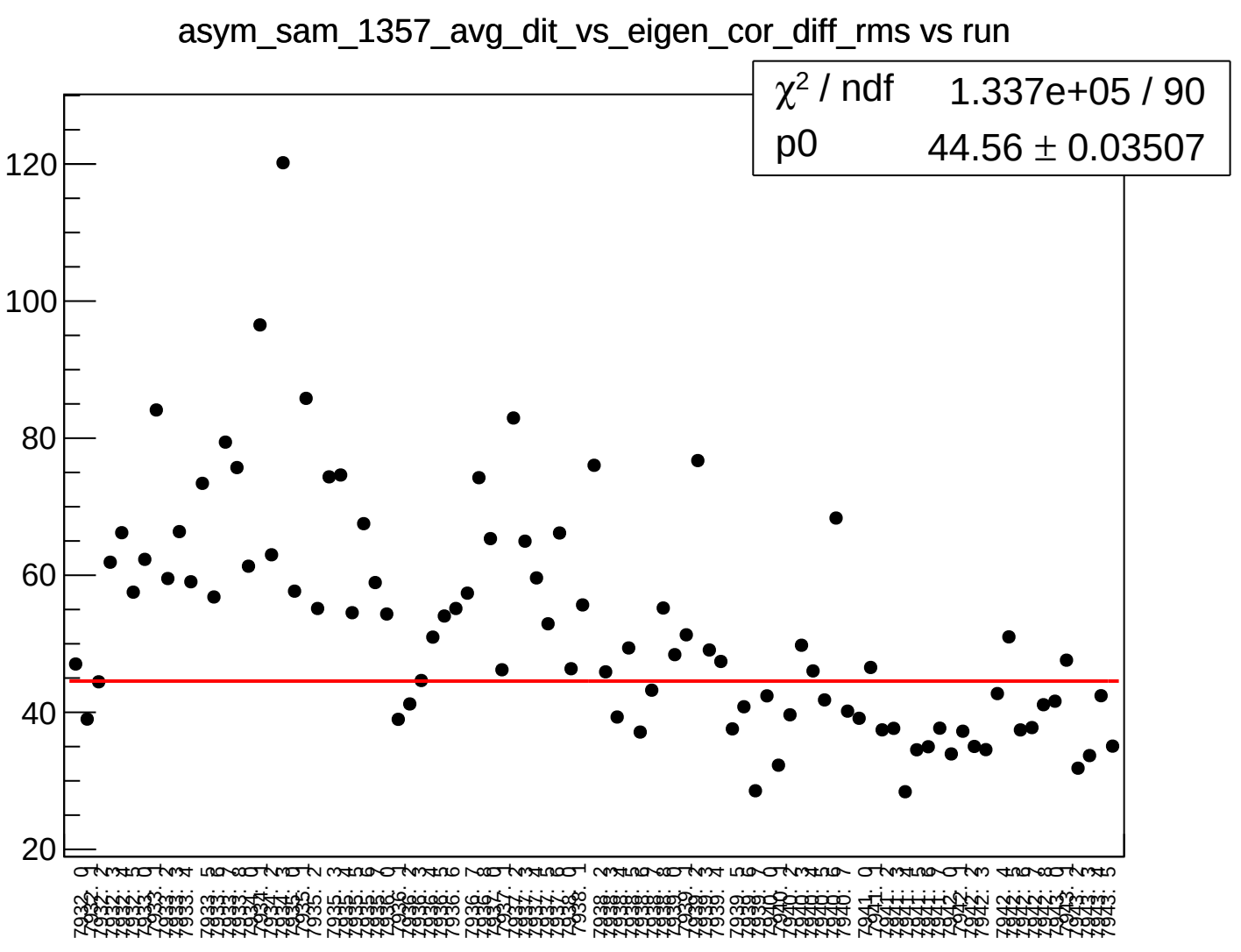

pull1D
Entries 91
Mean −0.02993
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

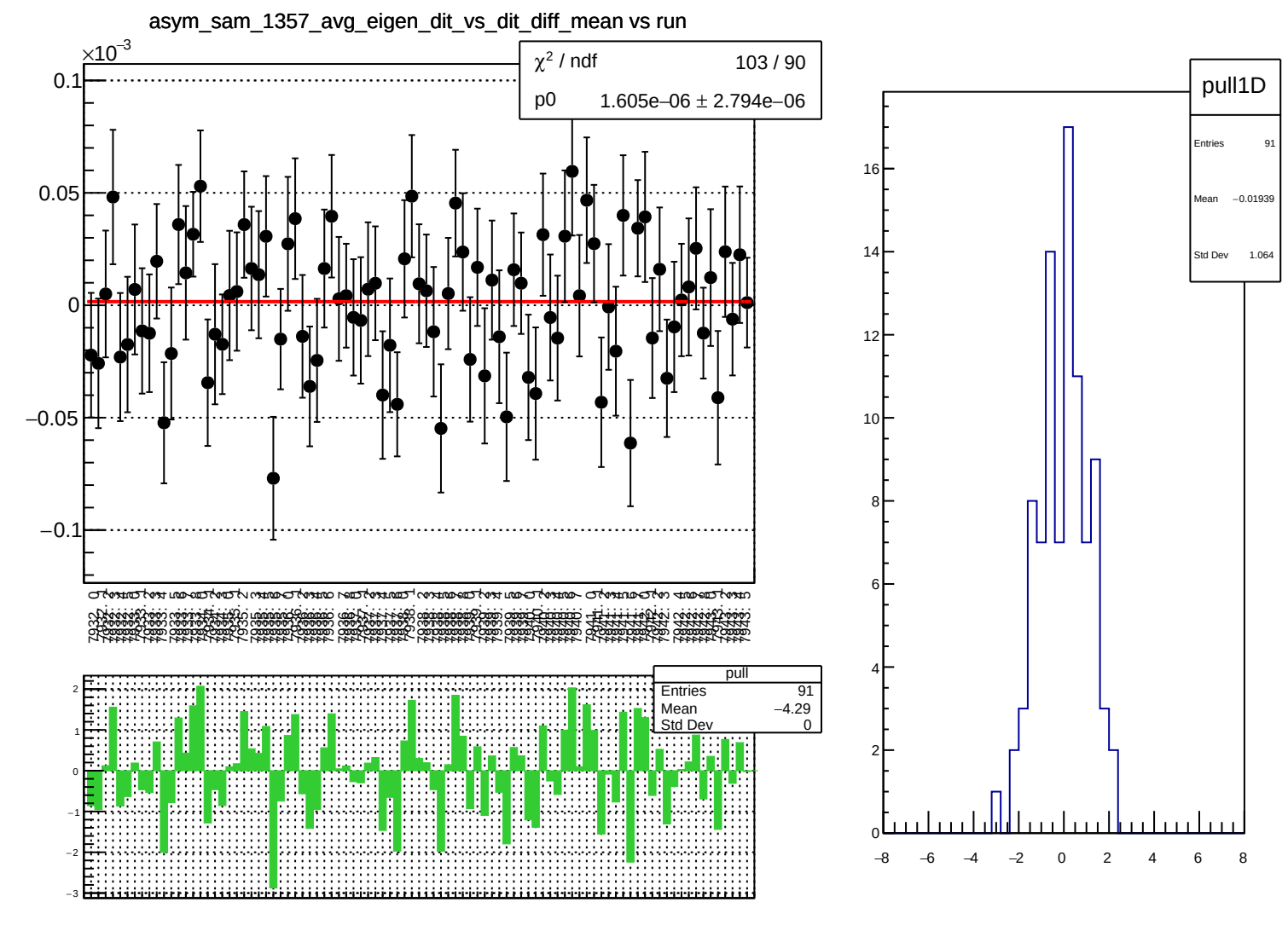

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 90
p0 1.043e−10 ± 1.285e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

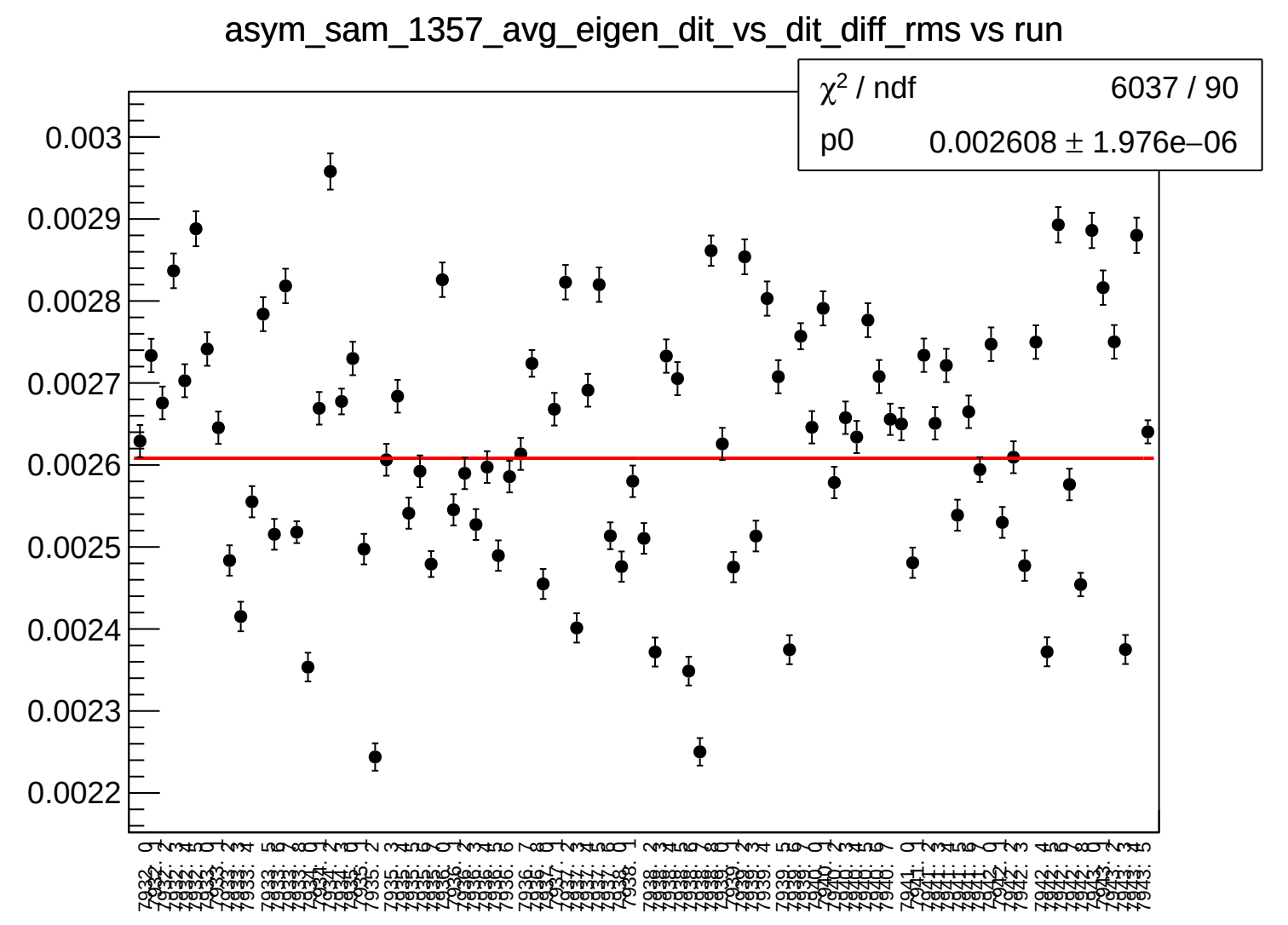

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 90
p0 0.03939 ± 0.04959
pull
Entries 91
Mean 814.1
Std Dev 0
pull1D
Entries 91
Mean −0.002904
Std Dev 1.085

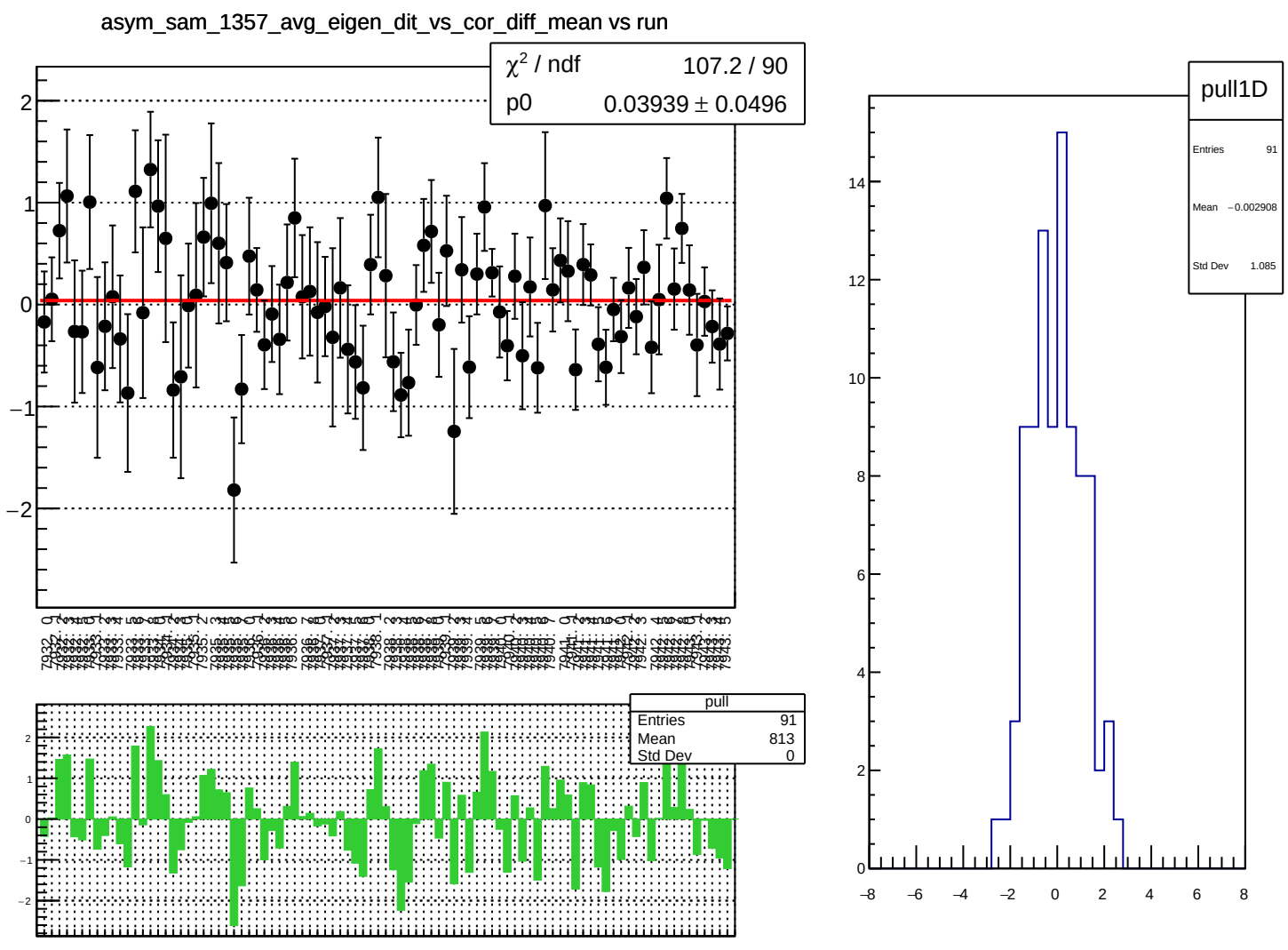

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 90
p0 44.56 ± 0.03507
120
100
80
60
40
20

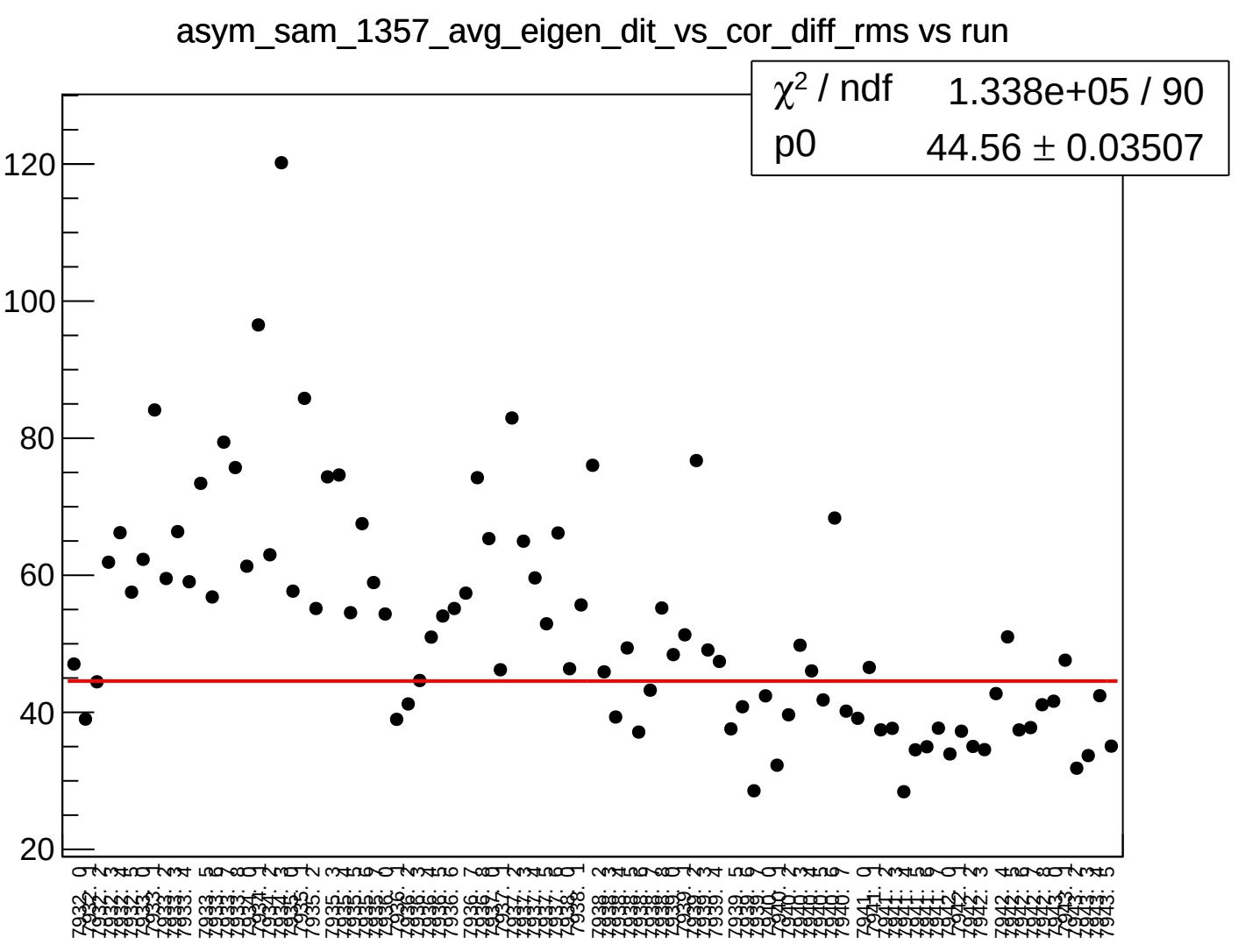

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 90
p0 0.03939 ± 0.04959
pull
Entries 91
Mean 814.1
Std Dev 0
pull1D
Entries 91
Mean −0.002904
Std Dev 1.085

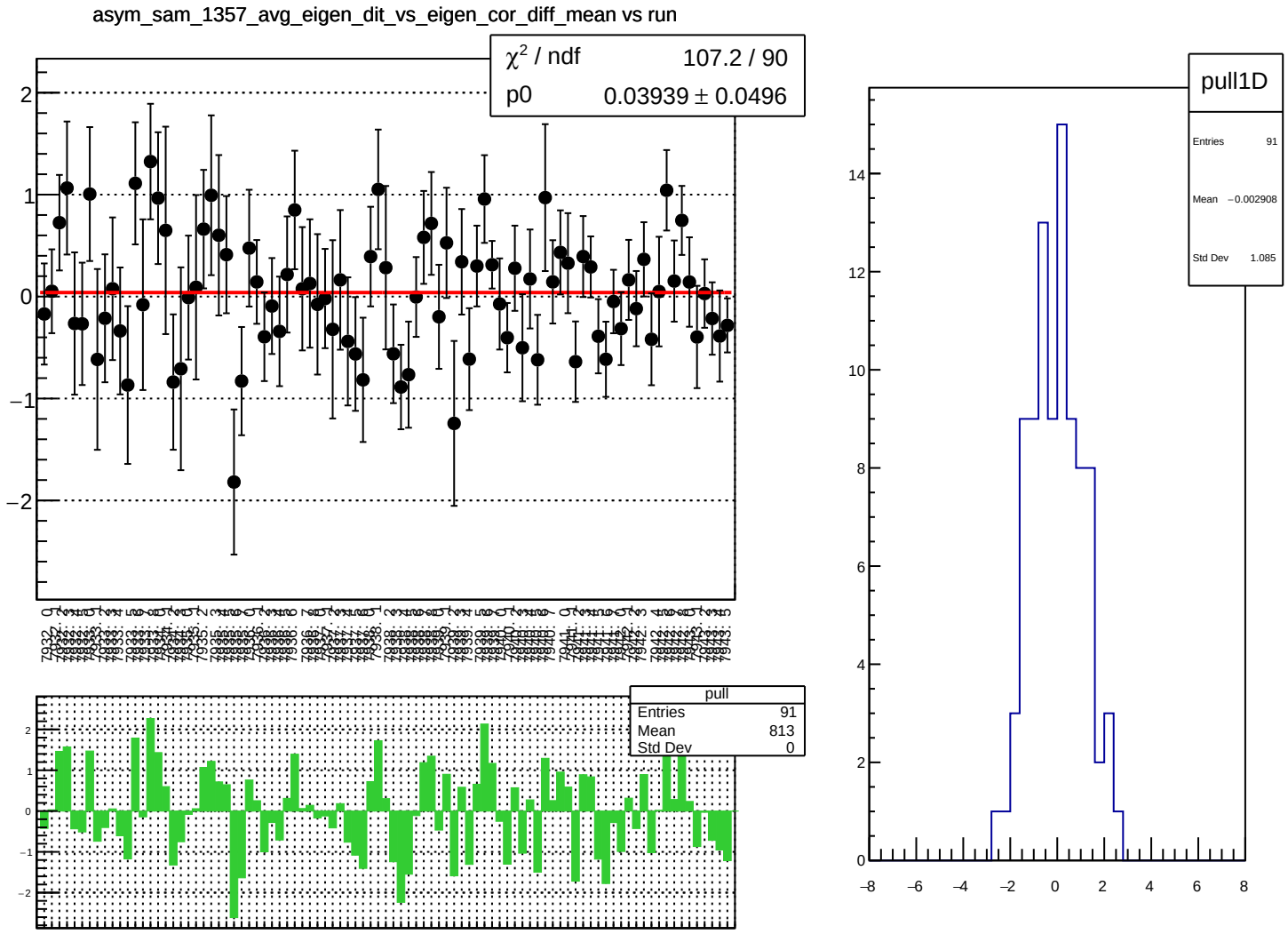

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 90
p0 44.56 ± 0.03507
120
100
80
60
40
20

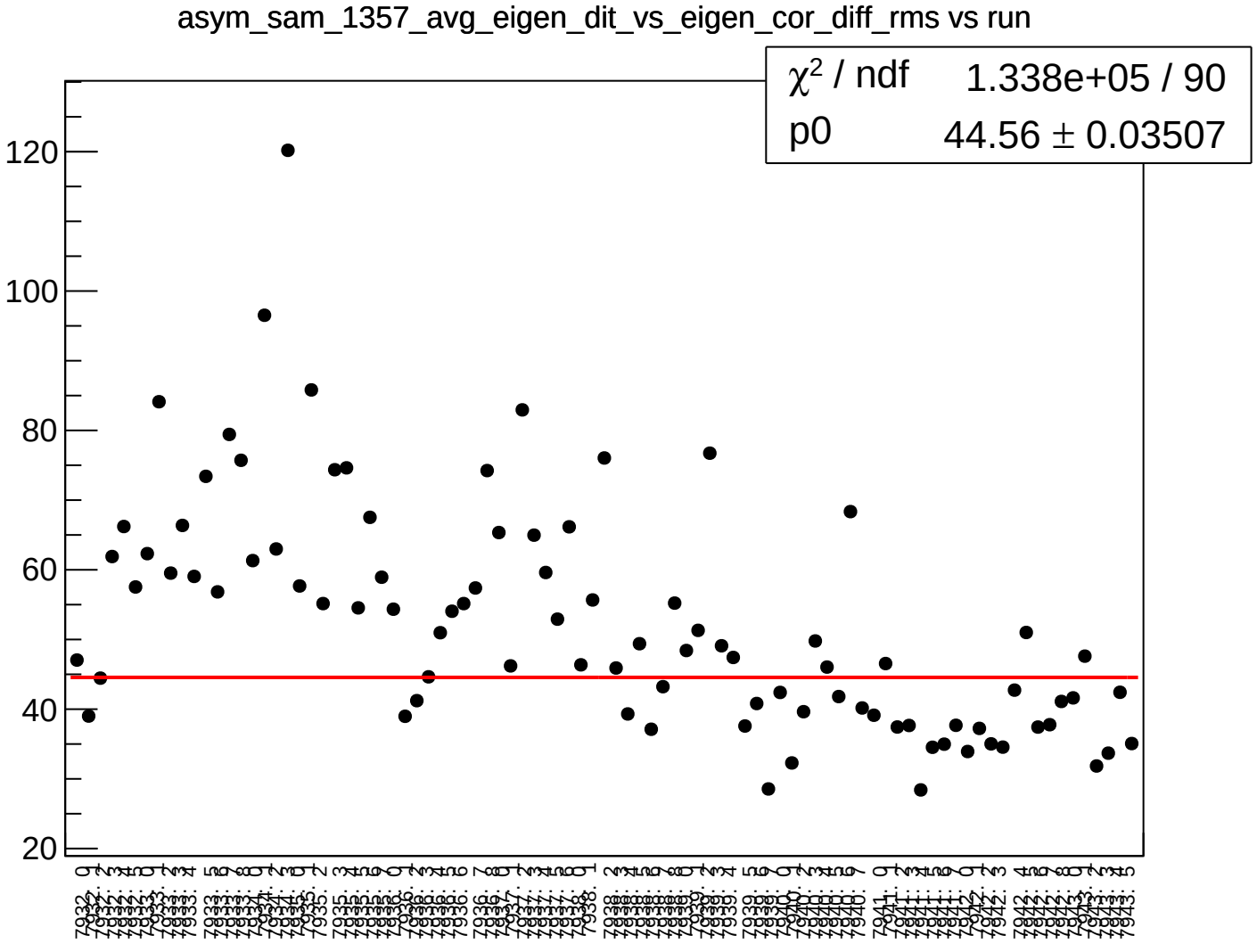

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103 / 90
p0 1.605e−06 ± 2.794e−06
pull
Entries 91
Mean −4.29
Std Dev 0
pull1D
Entries 91
Mean −0.01939
Std Dev 1.064

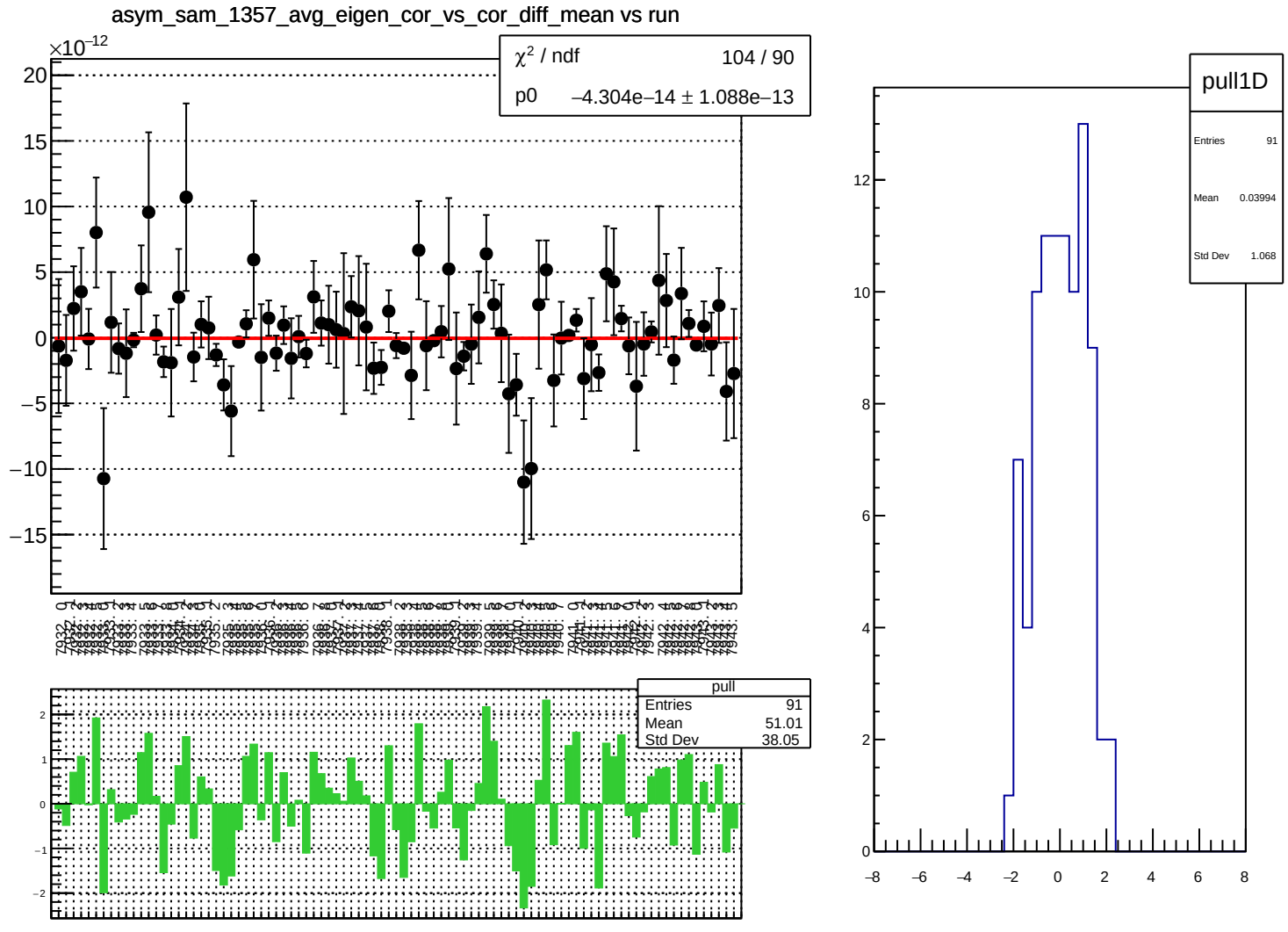

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6037 / 90
p0 0.002608 ± 1.976e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

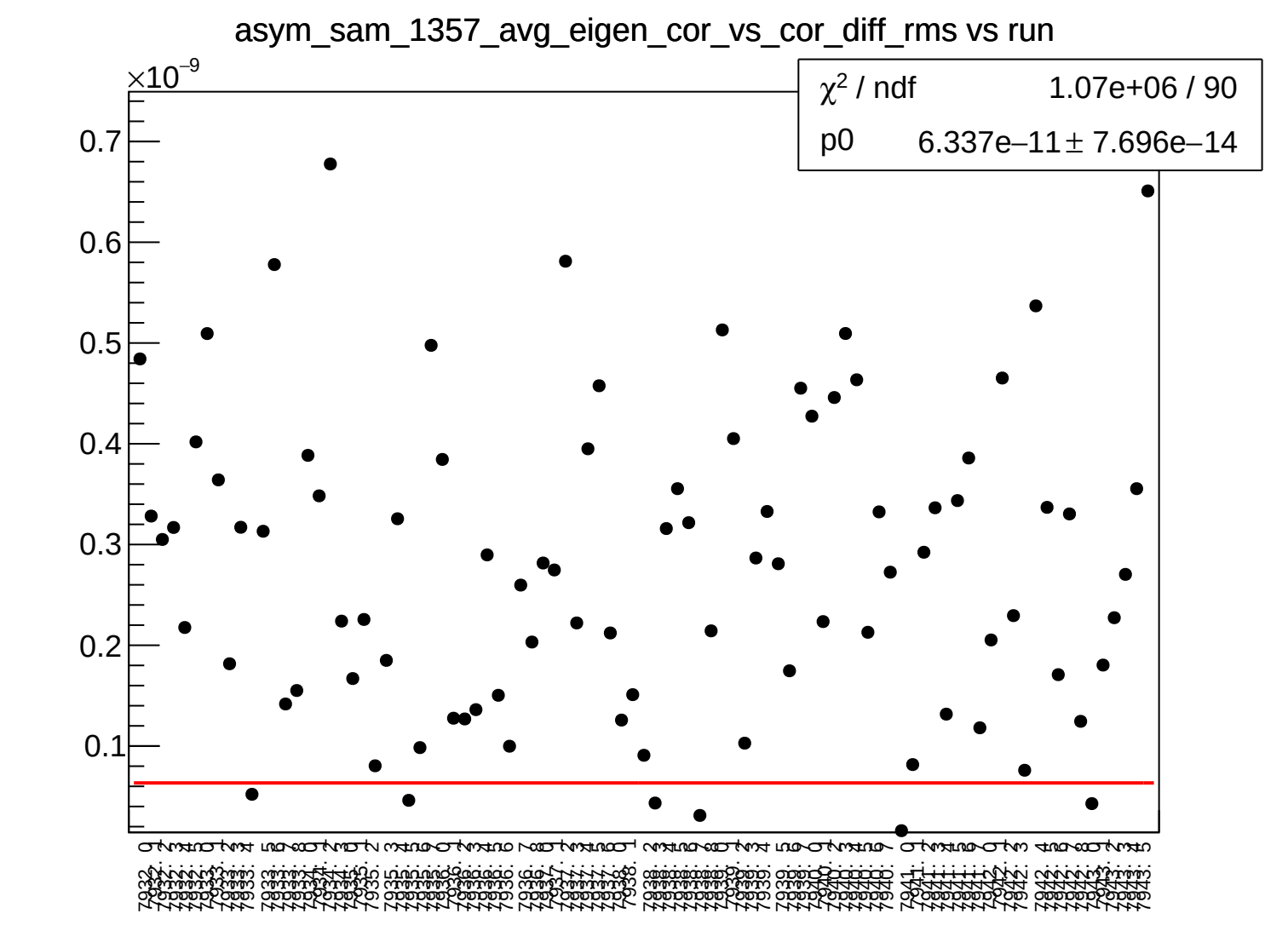

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 90
p0 0.03939 ± 0.0496
pull
Entries 91
Mean 813
Std Dev 0
pull1D
Entries 91
Mean −0.002908
Std Dev 1.085

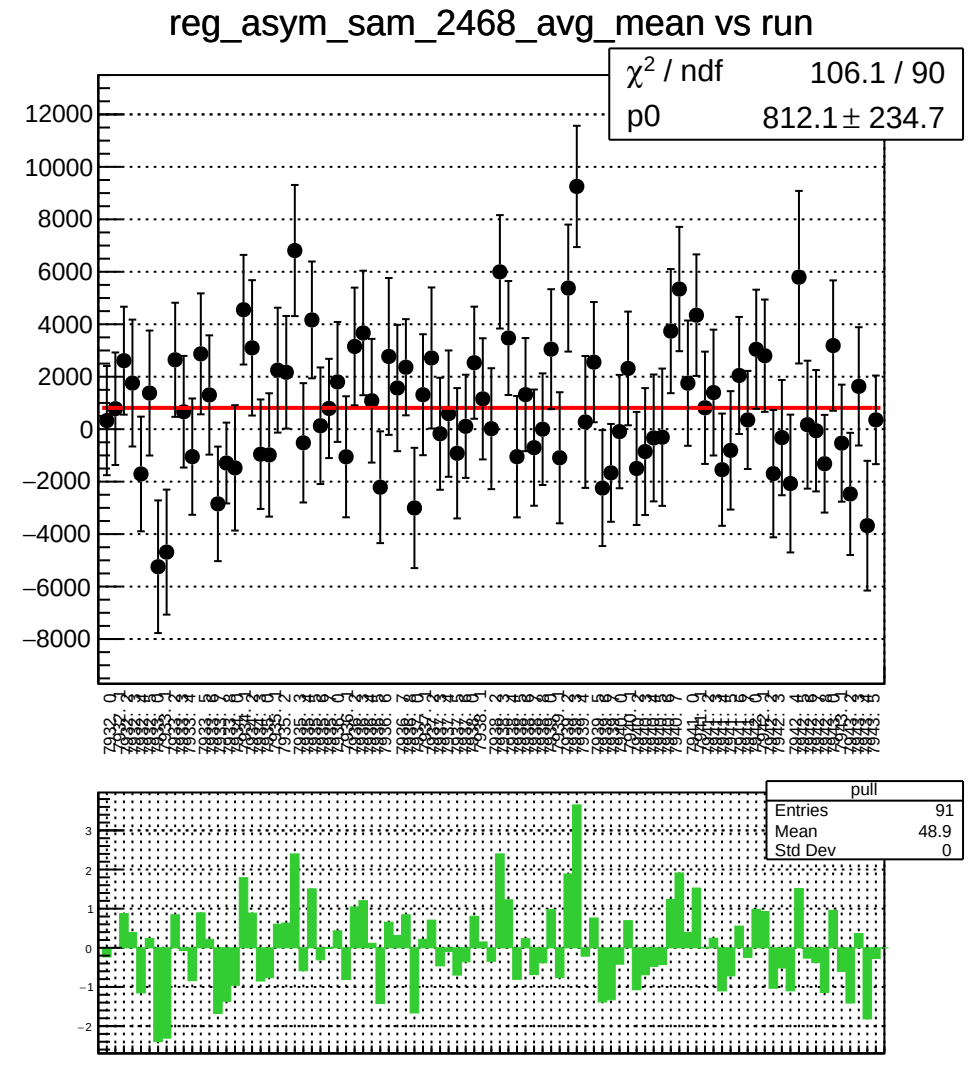

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.338e+05 / 90
p0 44.56 ± 0.03507
120
100
80
60
40
20

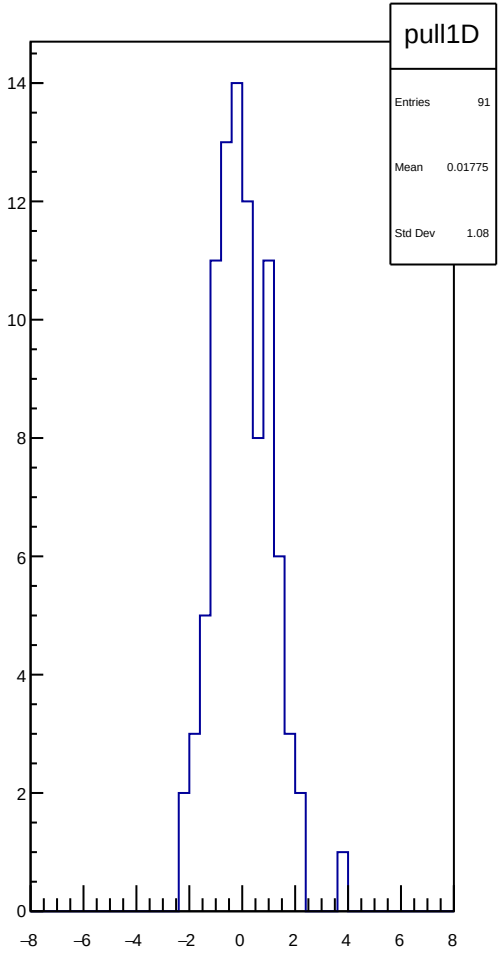

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 90
p0 0.03939 ± 0.0496
pull
Entries 91
Mean 813
Std Dev 0
pull1D
Entries 91
Mean −0.002908
Std Dev 1.085

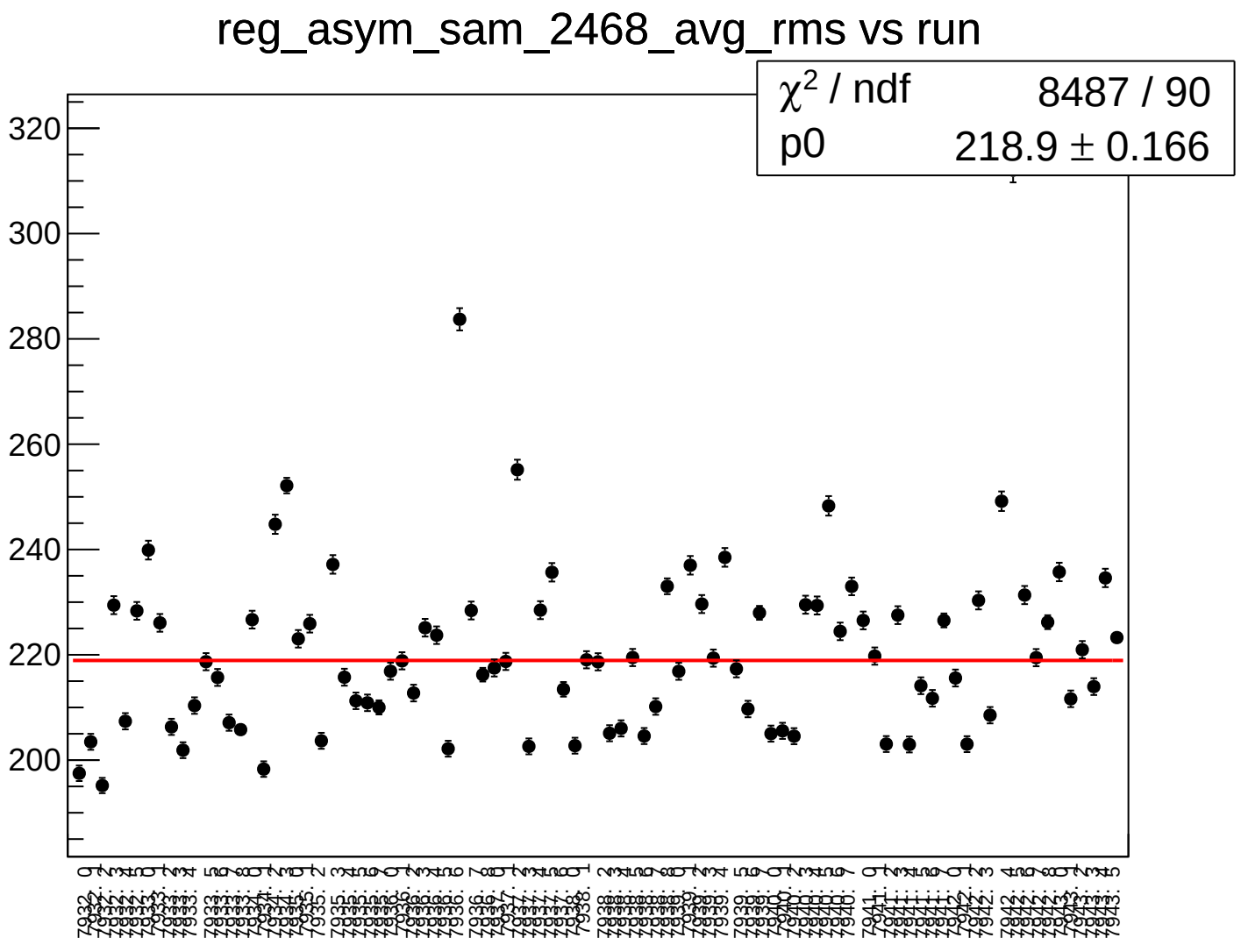

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.338e+05 / 90
p0 44.56 ± 0.03507
120
100
80
60
40
20

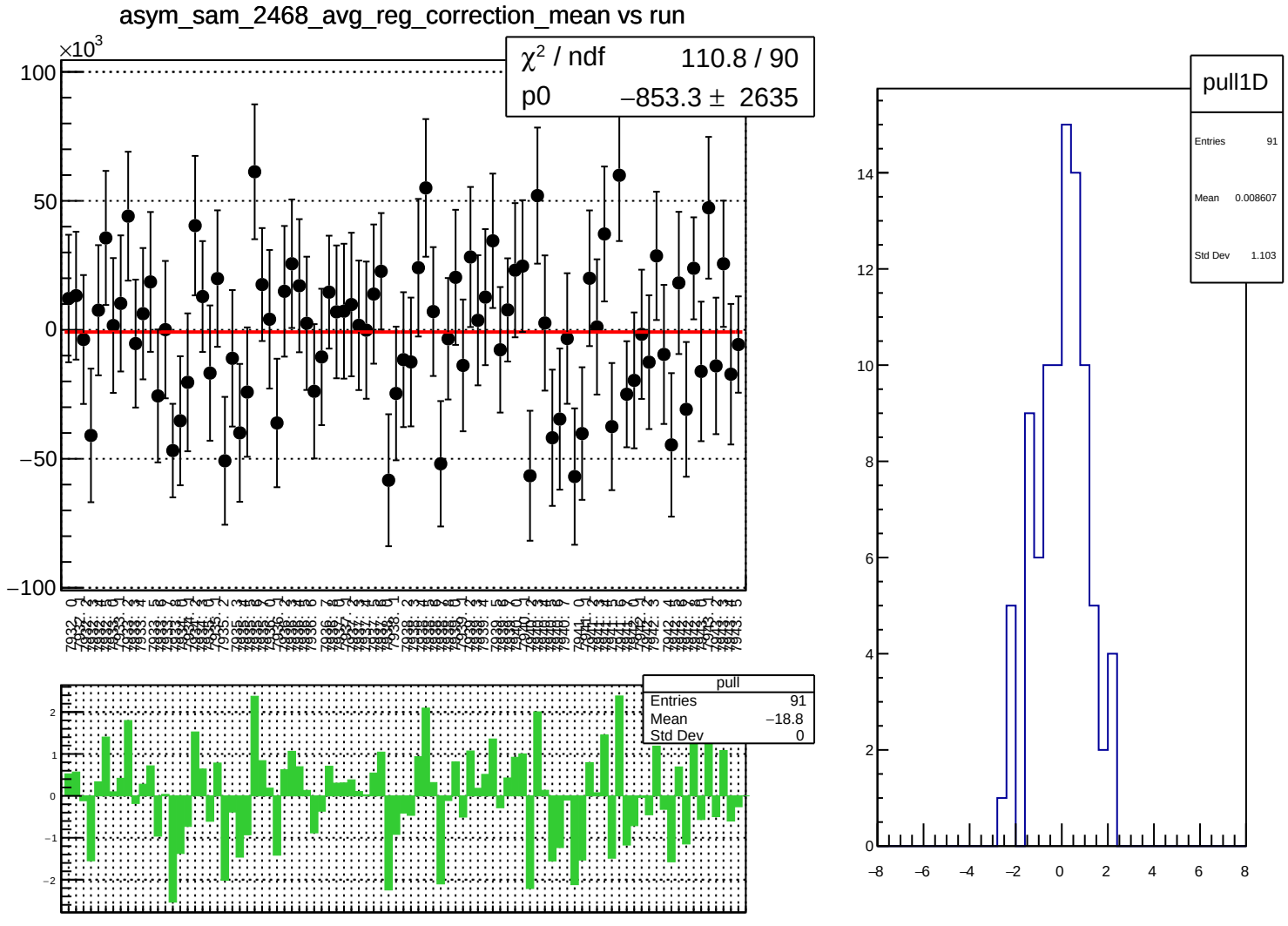

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104 / 90
p0 −4.304e−14 ± 1.088e−13
pull
Entries 91
Mean 51.01
Std Dev 38.05
pull1D
Entries 91
Mean 0.03994
Std Dev 1.068

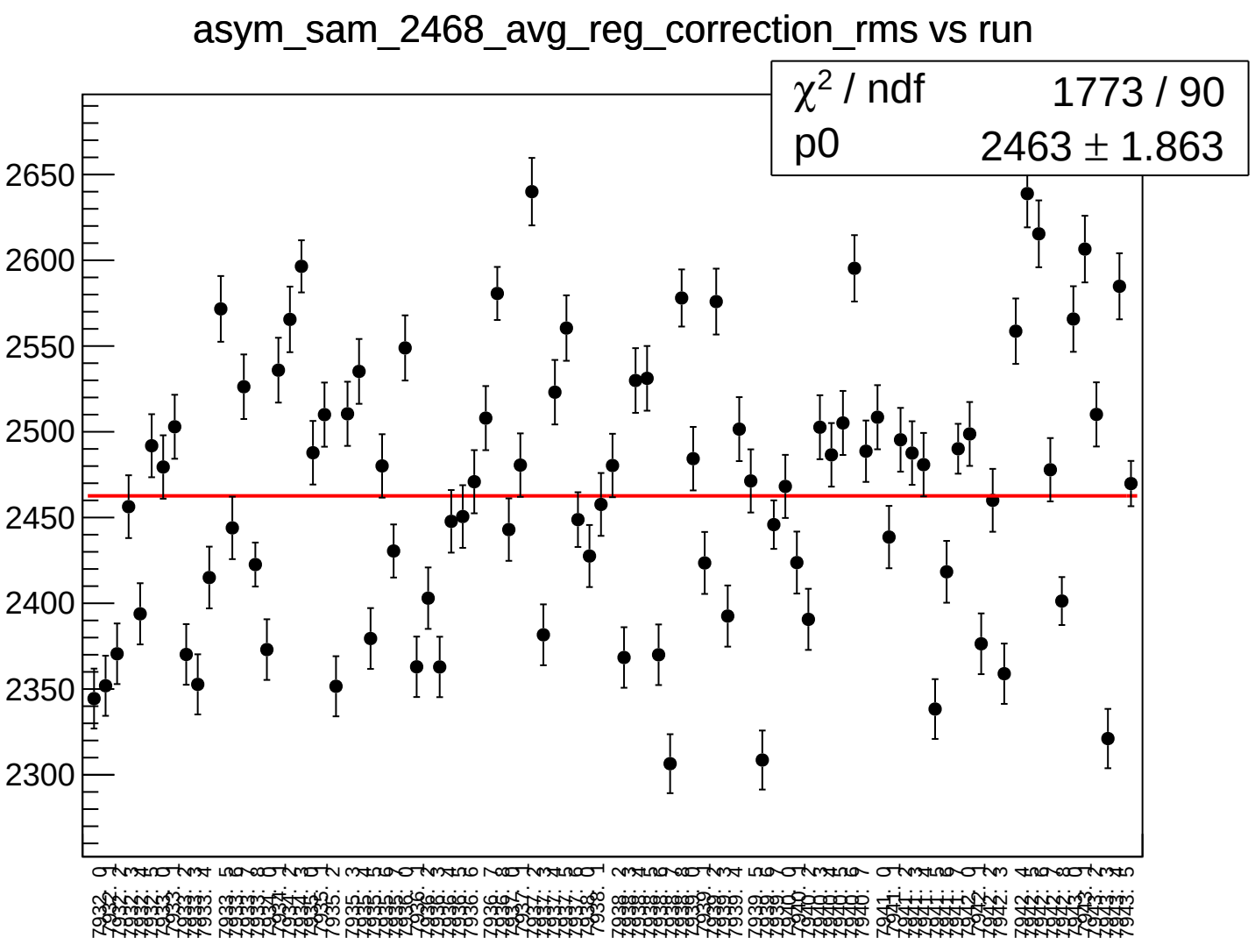

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.07e+06 / 90
p0 6.337e−11 ± 7.696e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

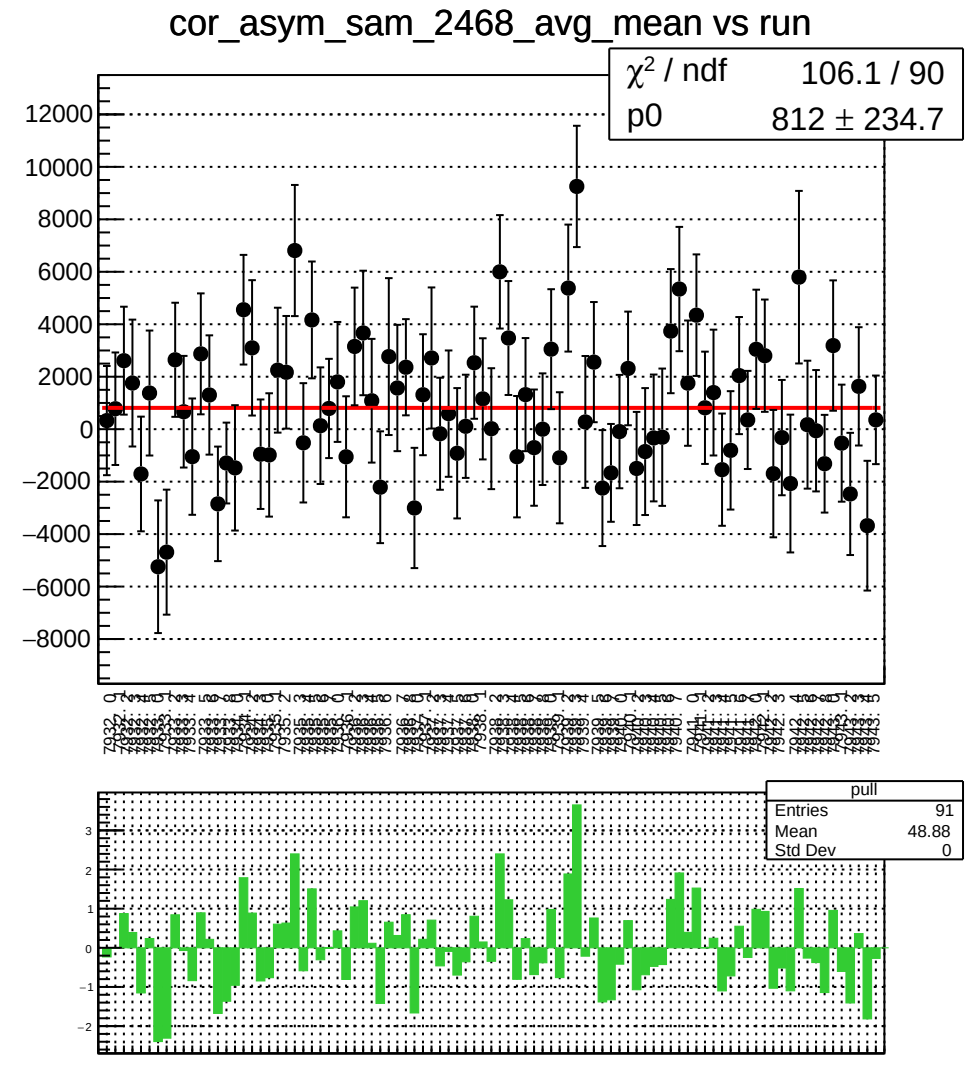

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 106.1 / 90
p0 812.1 ± 234.7
pull
Entries 91
Mean 48.9
Std Dev 0

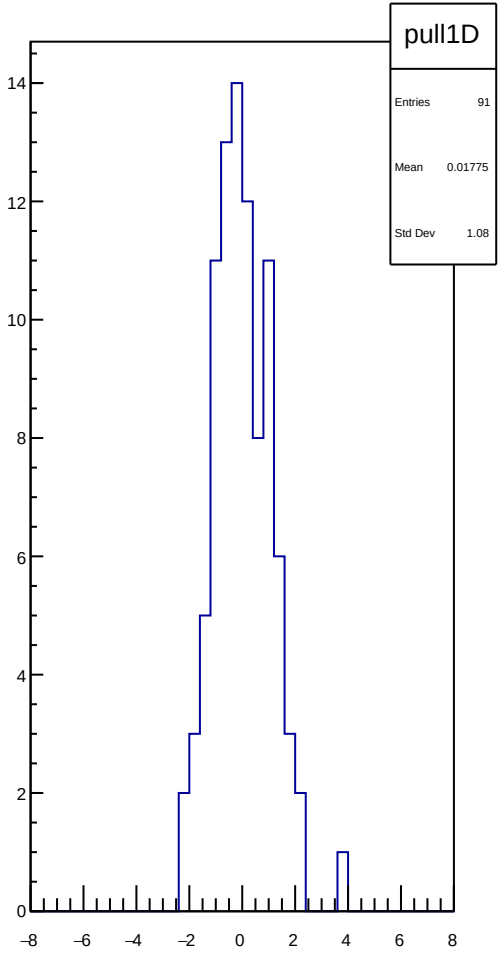

pull1D
Entries 91
Mean 0.01775
Std Dev 1.08

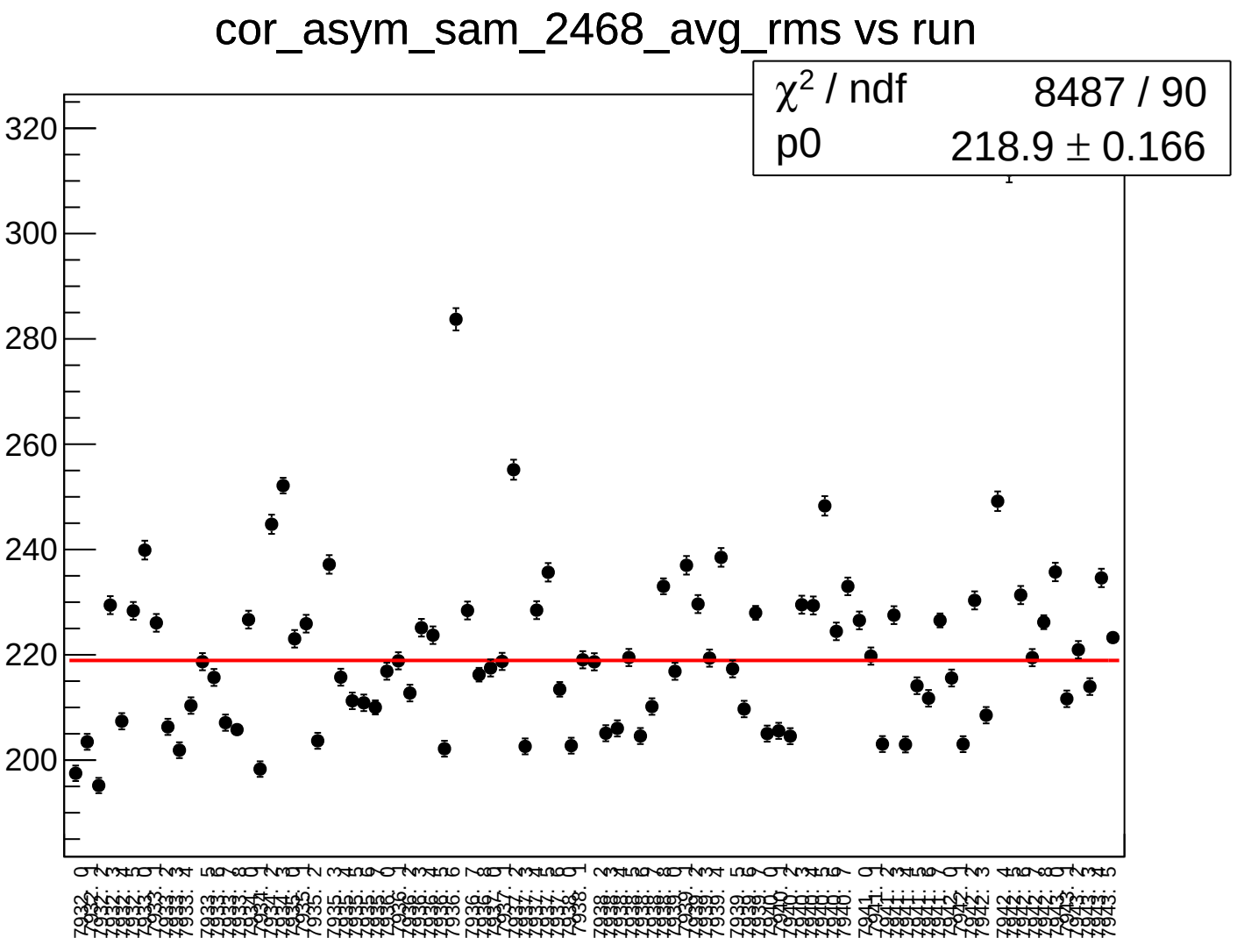

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 8487 / 90
p0 218.9 ± 0.166
320
300
280
260
240
220
200

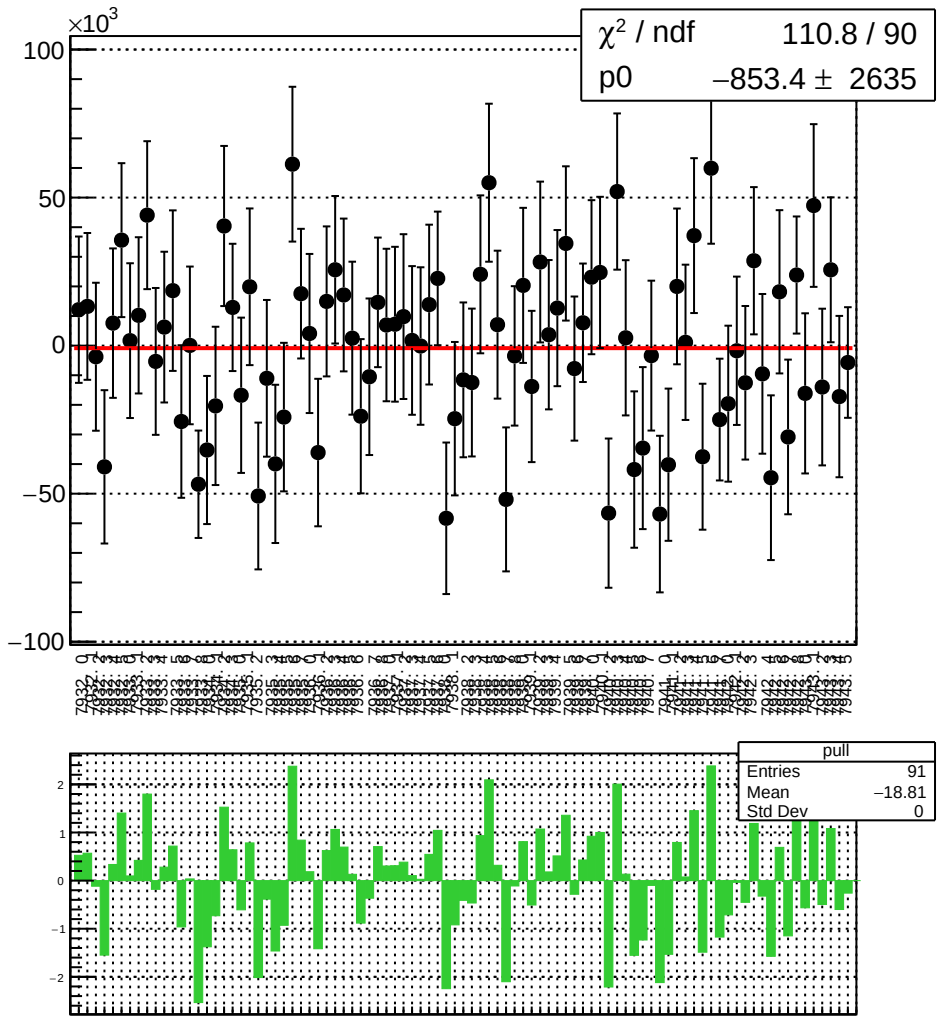

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 110.8 / 90
p0 −853.3 ± 2635
pull
Entries 91
Mean −18.8
Std Dev 0
pull1D
Entries 91
Mean 0.008607
Std Dev 1.103

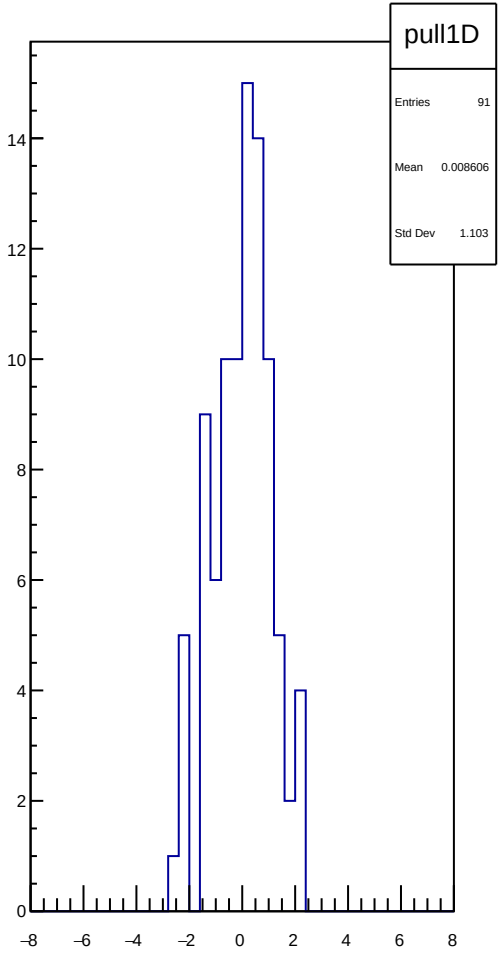

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1773 / 90
p0 2463 ± 1.863
2650
2600
2550
2500
2450
2400
2350
2300

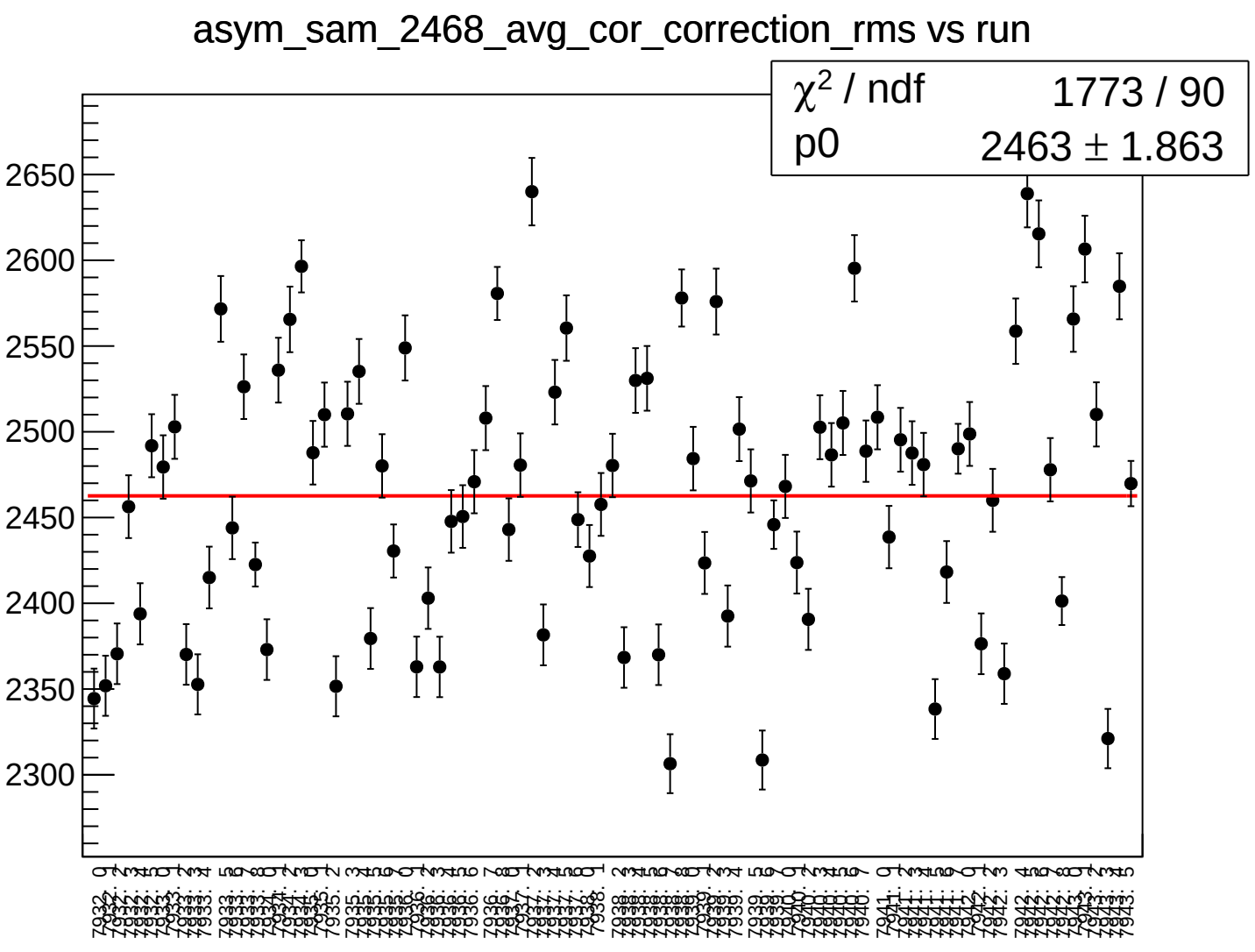

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 106.1 / 90
p0 812 ± 234.7
pull
Entries 91
Mean 48.88
Std Dev 0

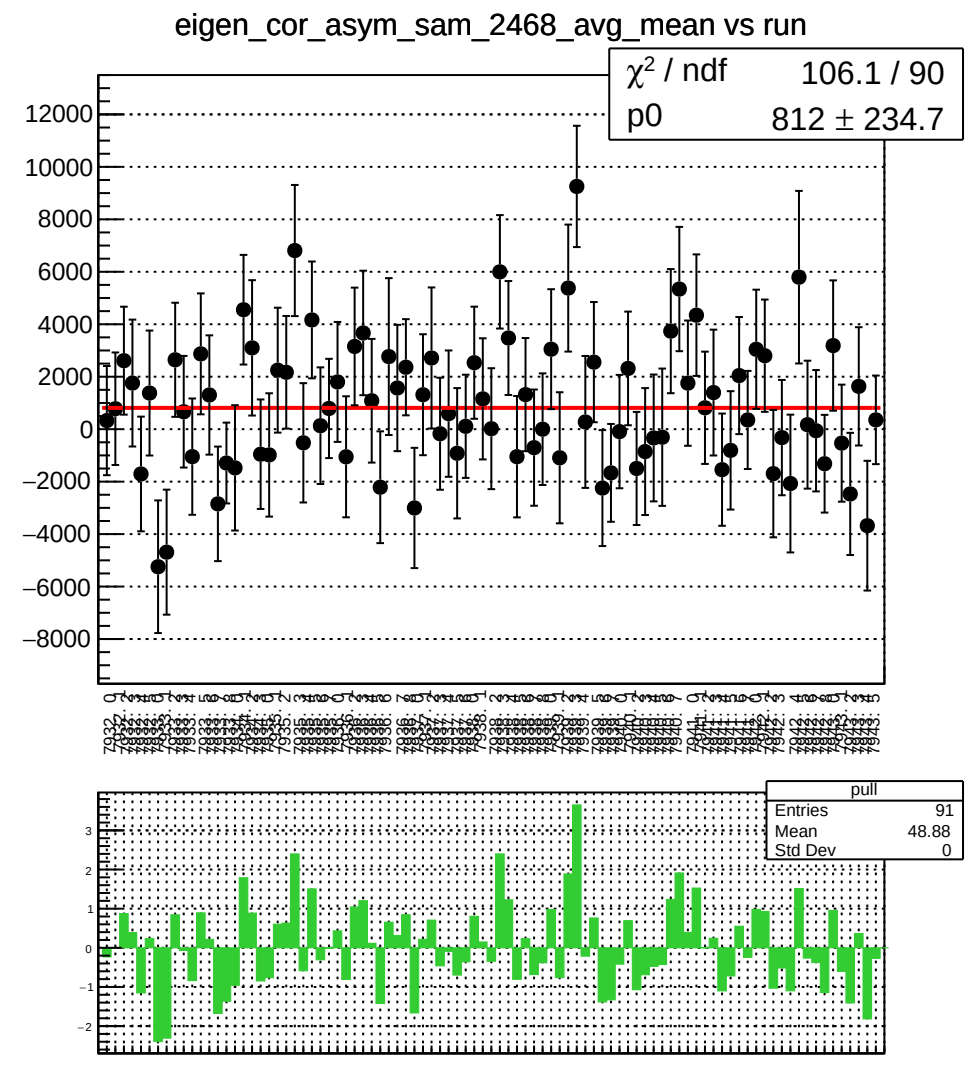

pull1D
Entries 91
Mean 0.01775
Std Dev 1.08

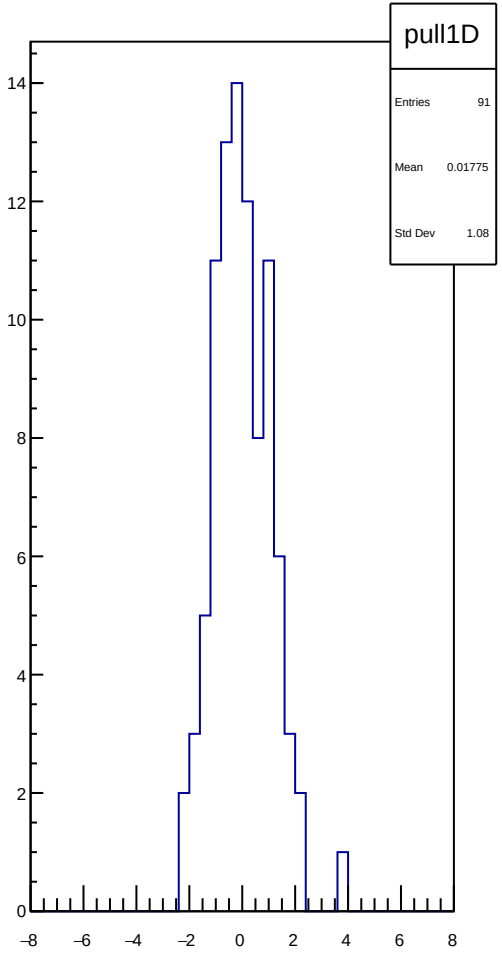

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 8487 / 90
p0 218.9 ± 0.166
320
300
280
260
240
220
200

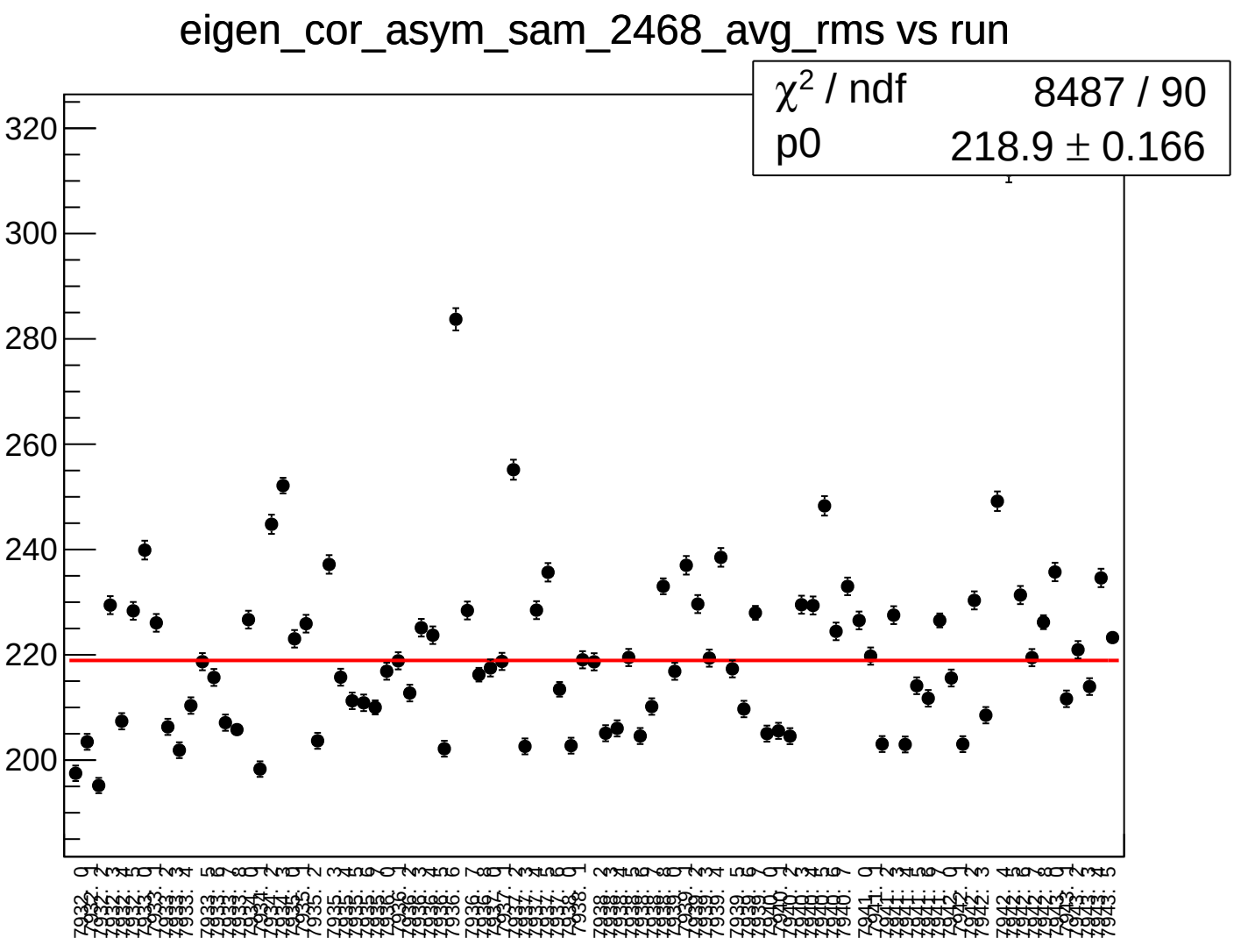

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 110.8 / 90
p0 −853.4 ± 2635
pull
Entries 91
Mean −18.81
Std Dev 0

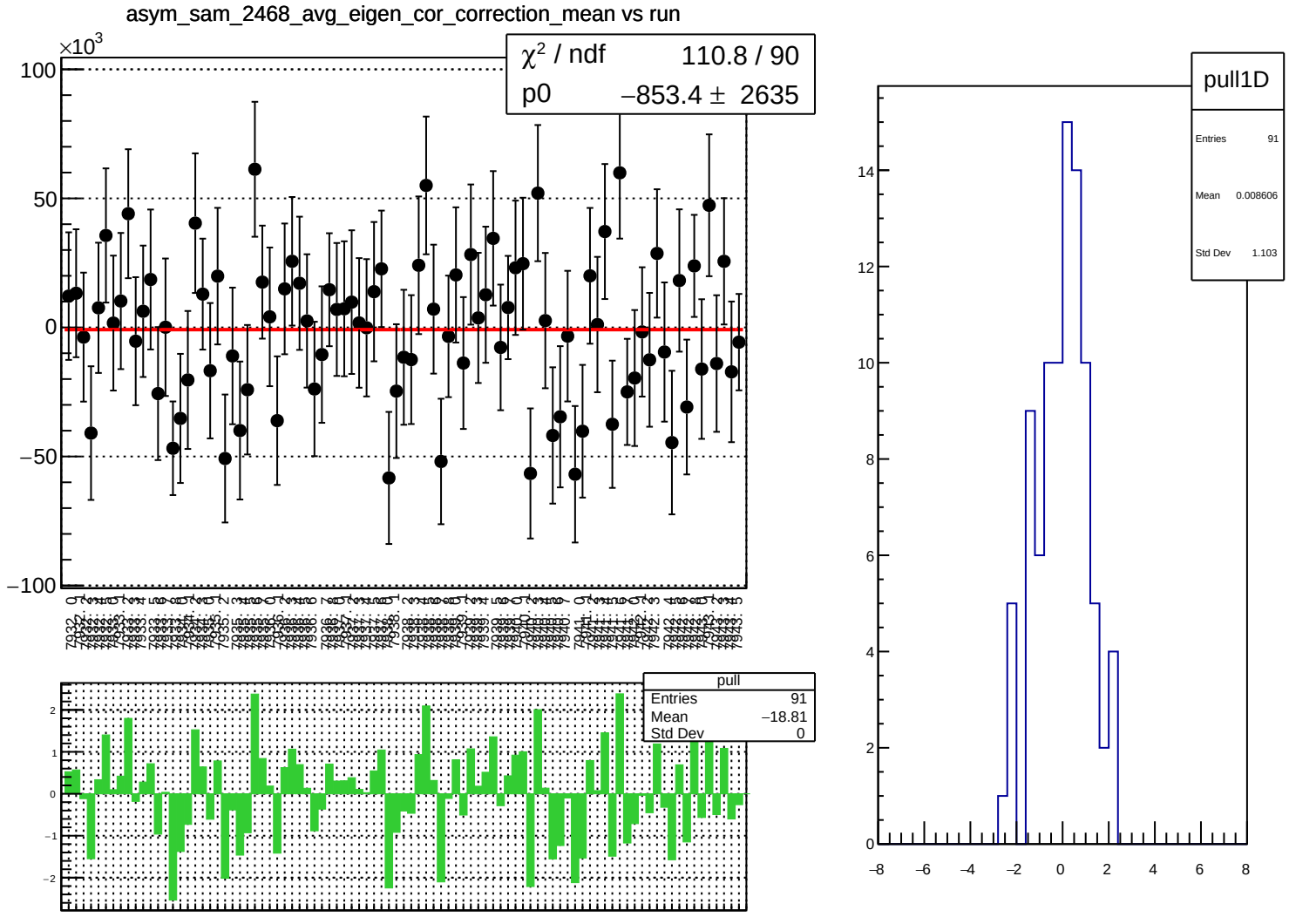

pull1D
Entries 91
Mean 0.008606
Std Dev 1.103

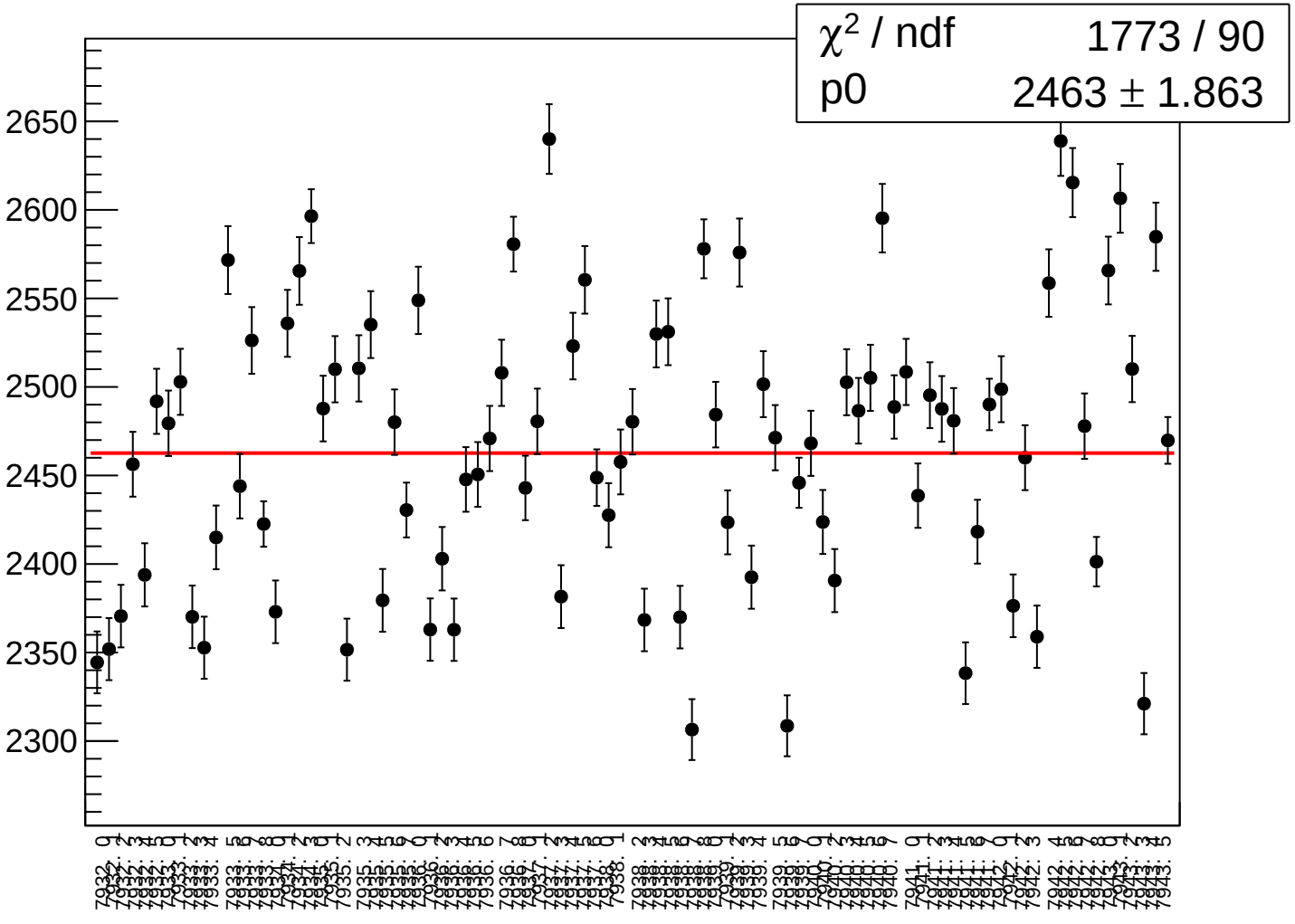

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1773 / 90
p0 2463 ± 1.863
2650
2600
2550
2500
2450
2400
2350
2300

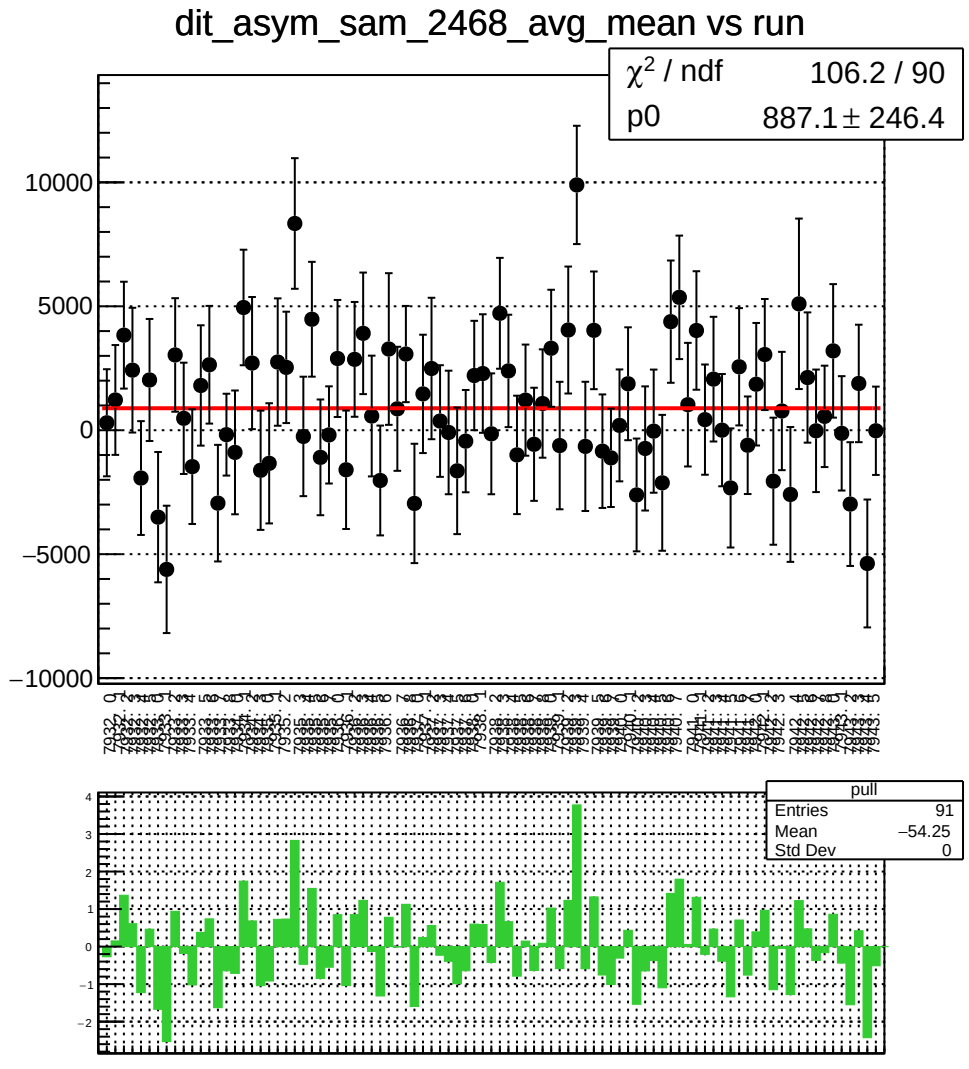

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 106.1 / 90
p0 812 ± 234.7
pull
Entries 91
Mean 48.88
Std Dev 0

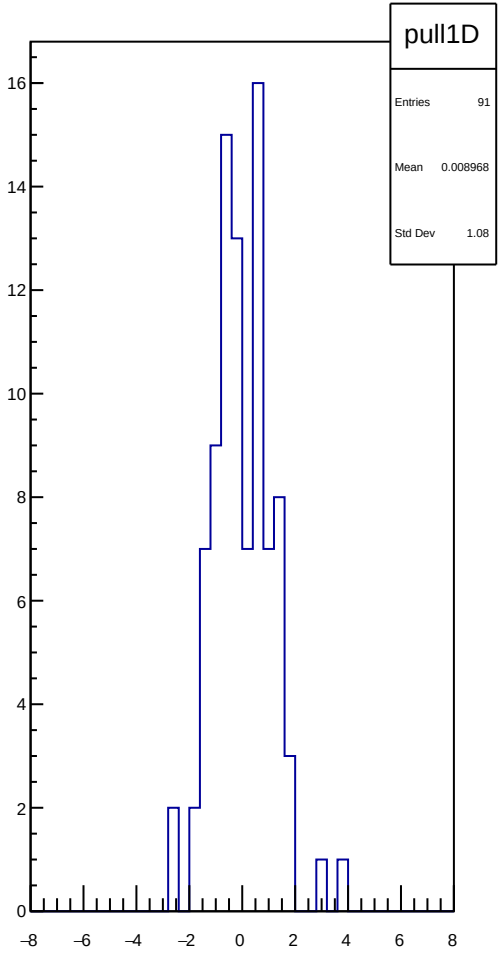

pull1D
Entries 91
Mean 0.01775
Std Dev 1.08


eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 8487 / 90
p0 218.9 ± 0.166
320
300
280
260
240
220
200

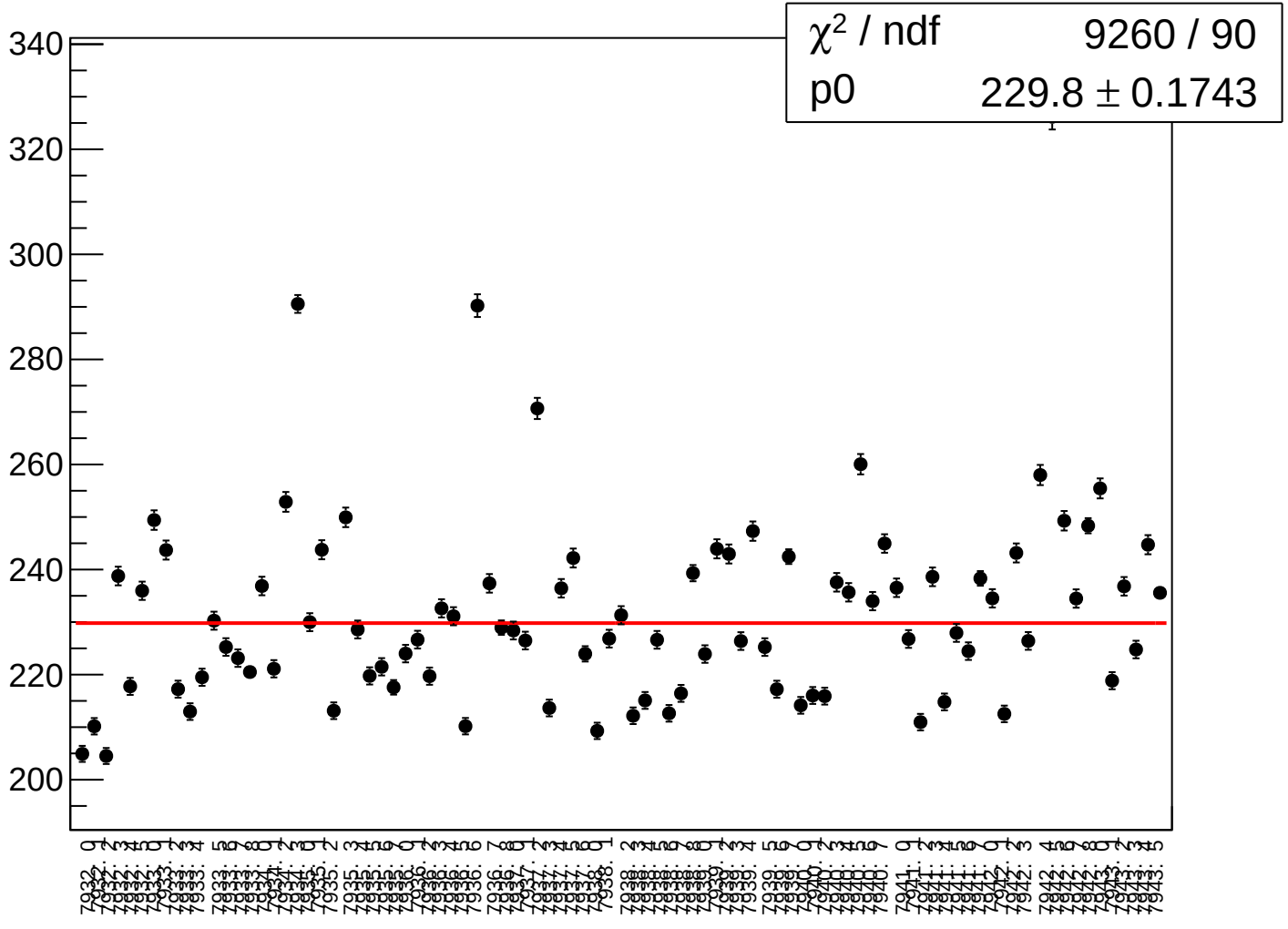

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.8 / 90
p0 −853.4 ± 2635
pull
Entries 91
Mean −18.81
Std Dev 0
pull1D
Entries 91
Mean 0.008606
Std Dev 1.103

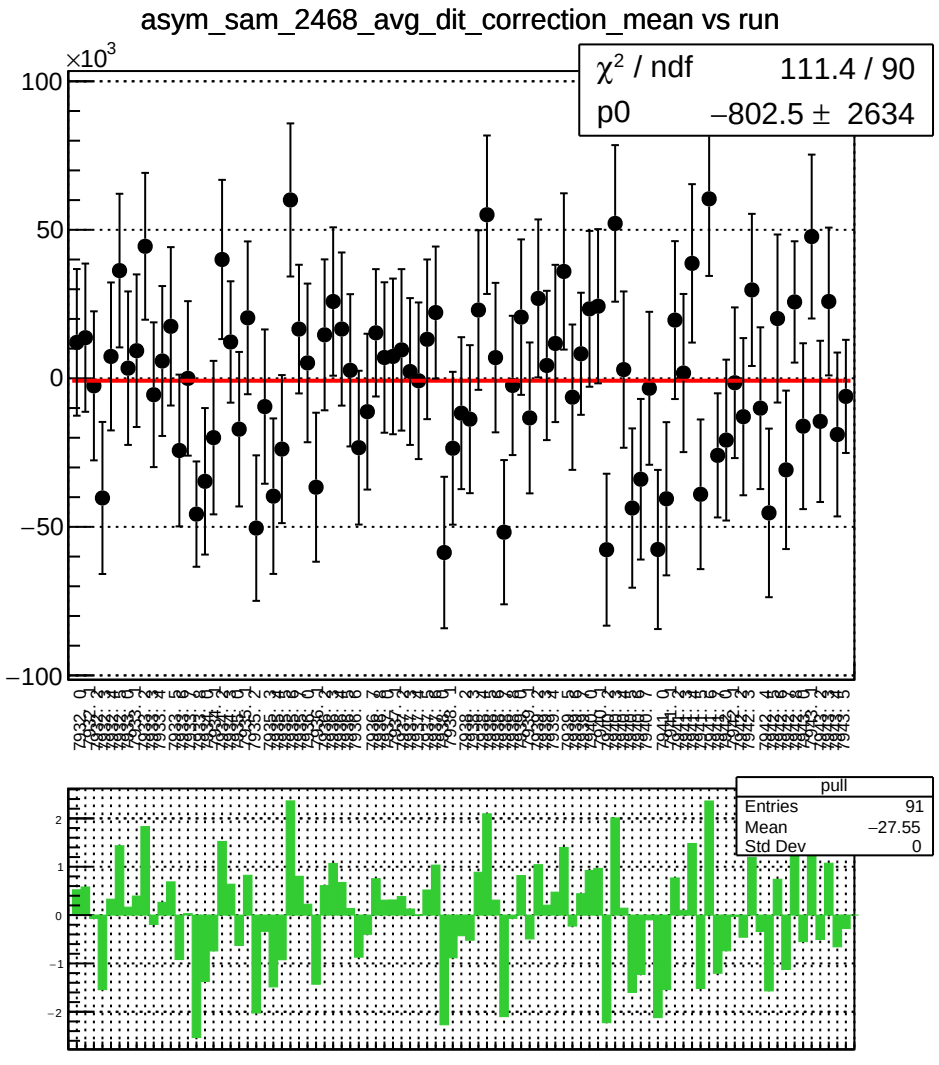

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1773 / 90
p0 2463 ± 1.863
2650
2600
2550
2500
2450
2400
2350
2300

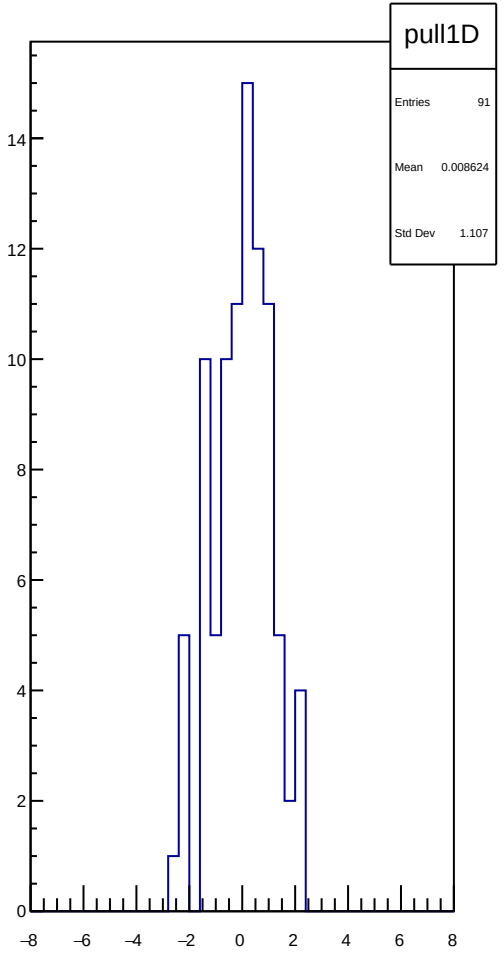

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 106.2 / 90
p0 887.1 ± 246.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −54.25
Std Dev 0
4
3
2
1
0
−1
−2

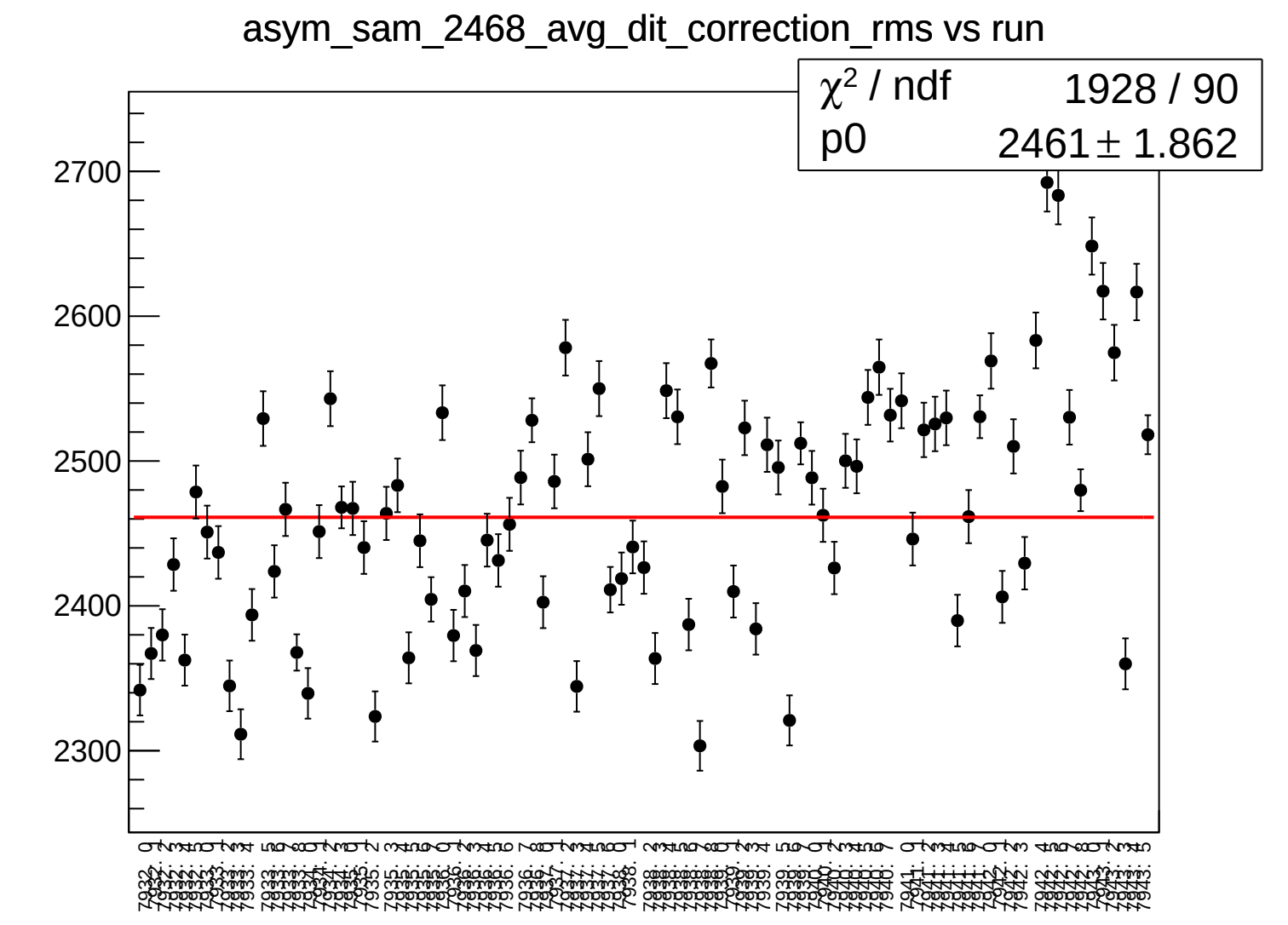

pull1D
Entries 91
Mean 0.008968
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

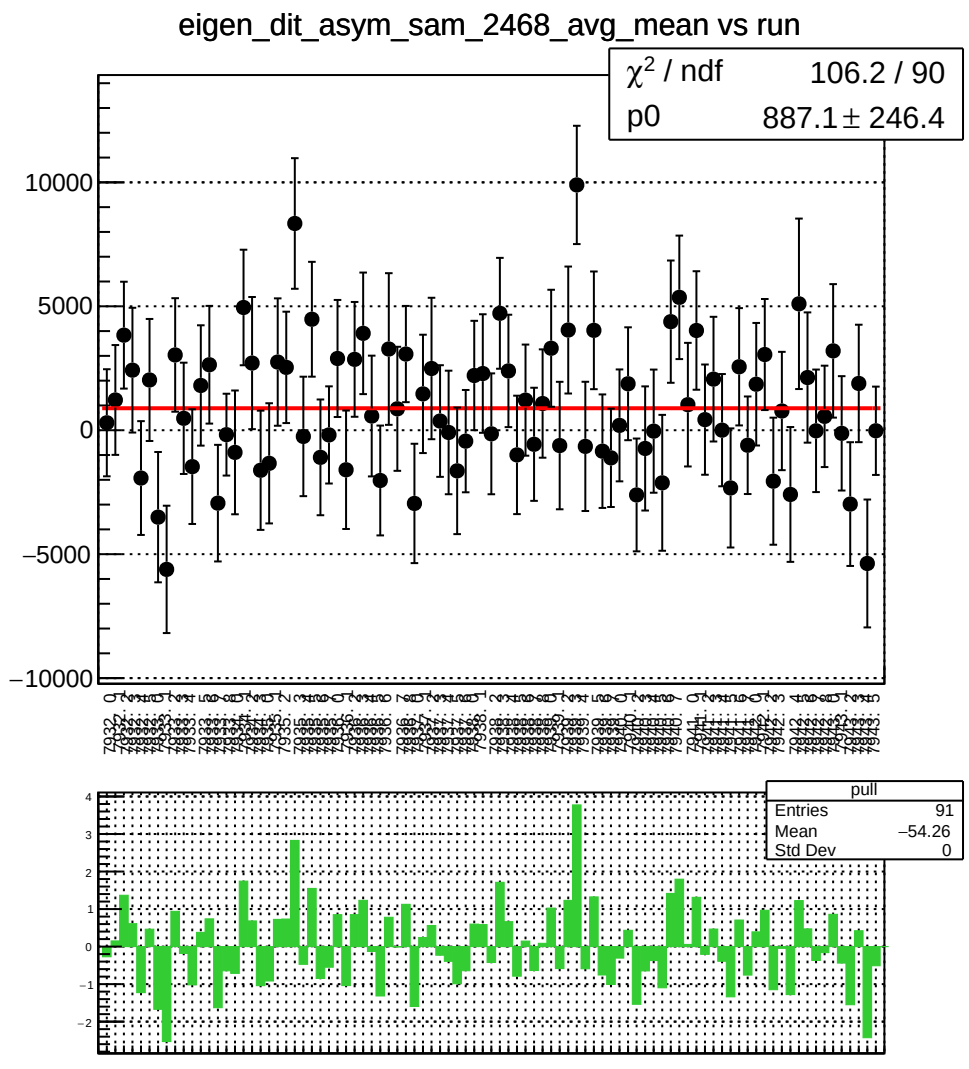
dit_asym_sam_2468_avg_rms vs run

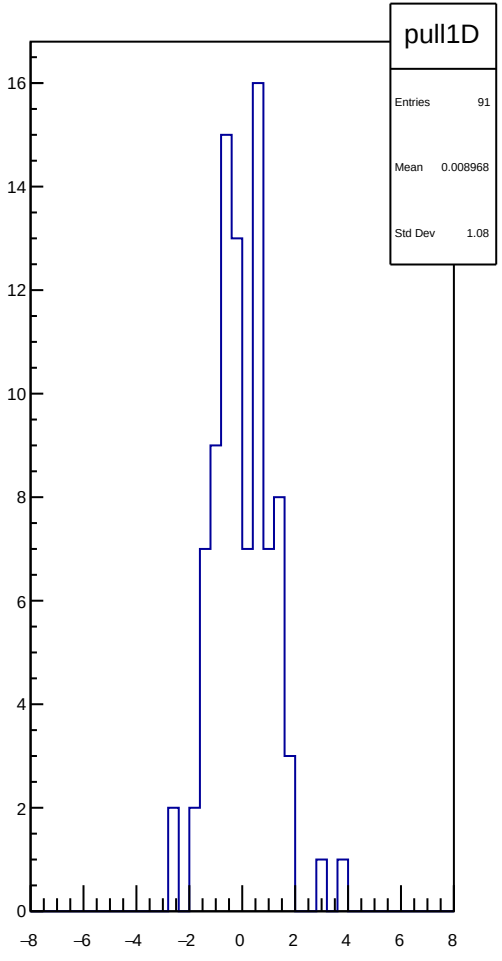


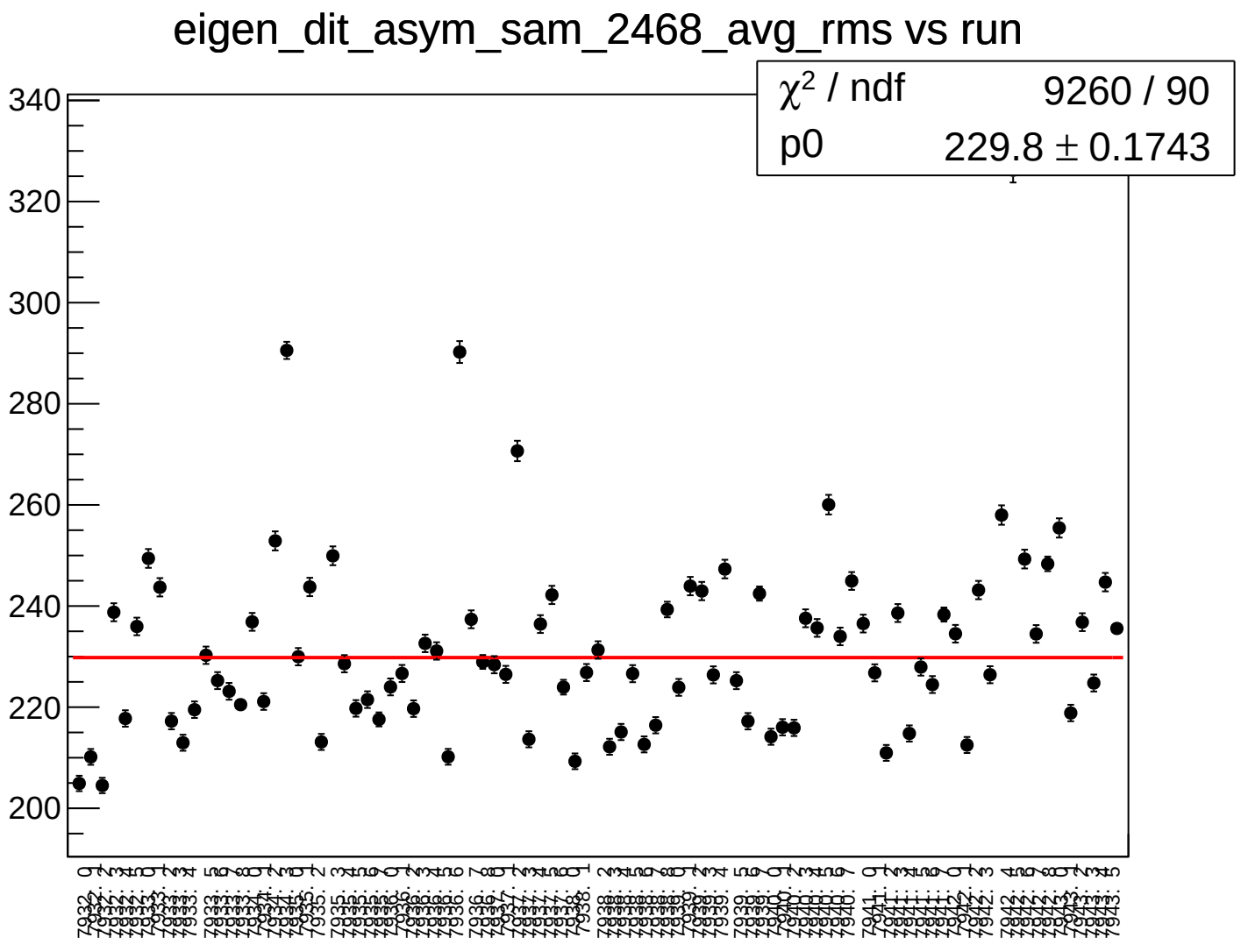

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 111.4 / 90
p0 −802.5 ± 2634
pull
Entries 91
Mean −27.55
Std Dev 0

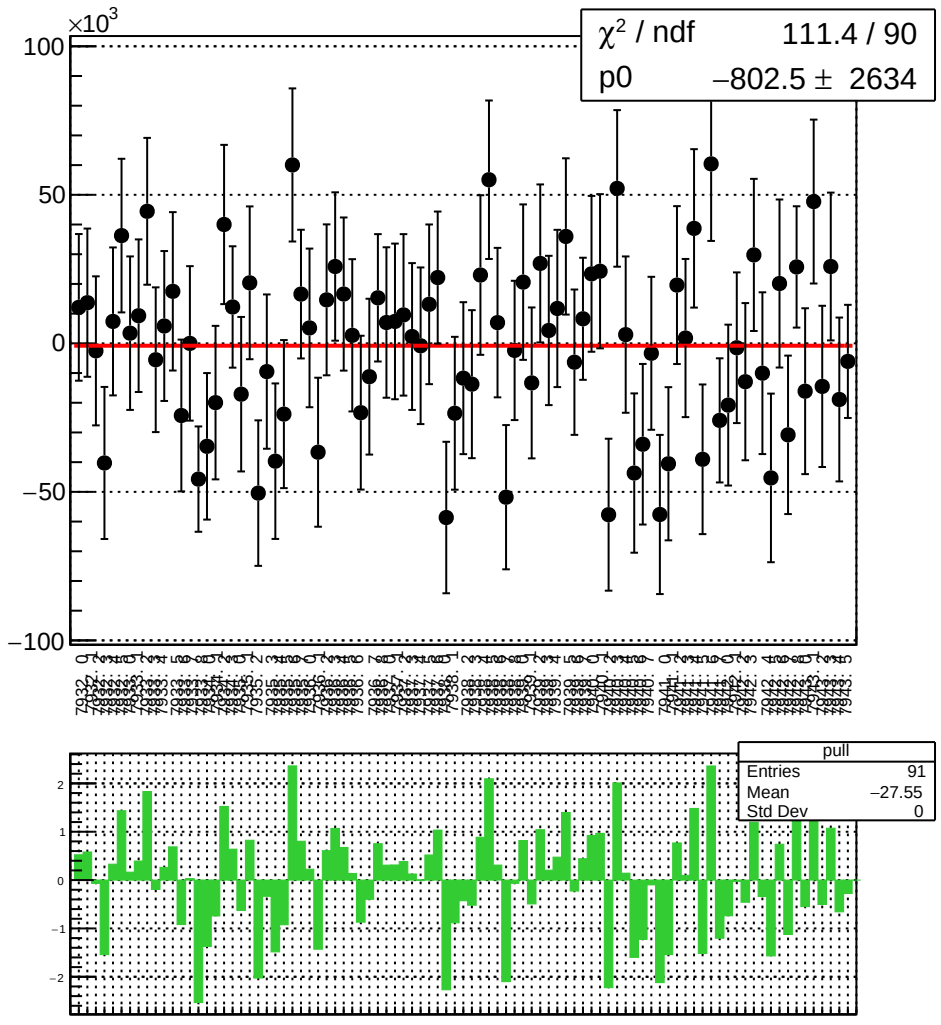

pull1D
Entries 91
Mean 0.008624
Std Dev 1.107

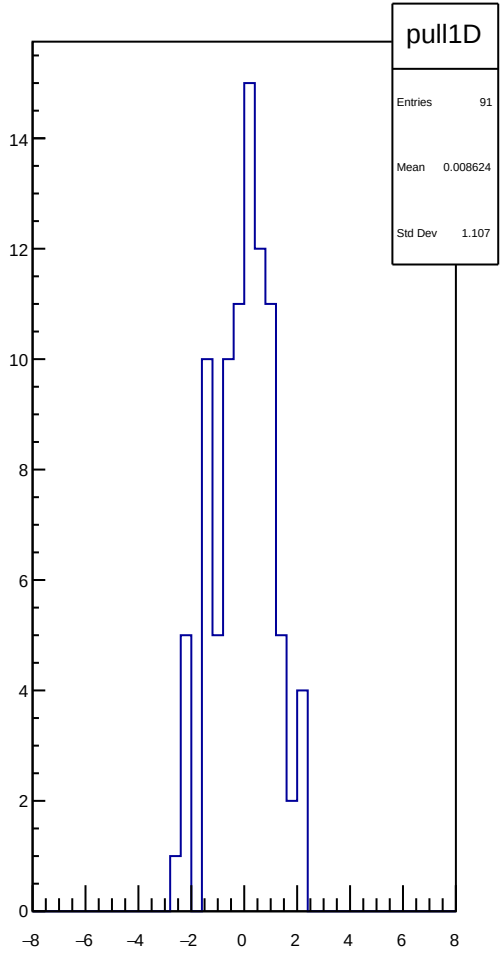

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1928 / 90
p0 2461 ± 1.862
2700
2600
2500
2400
2300

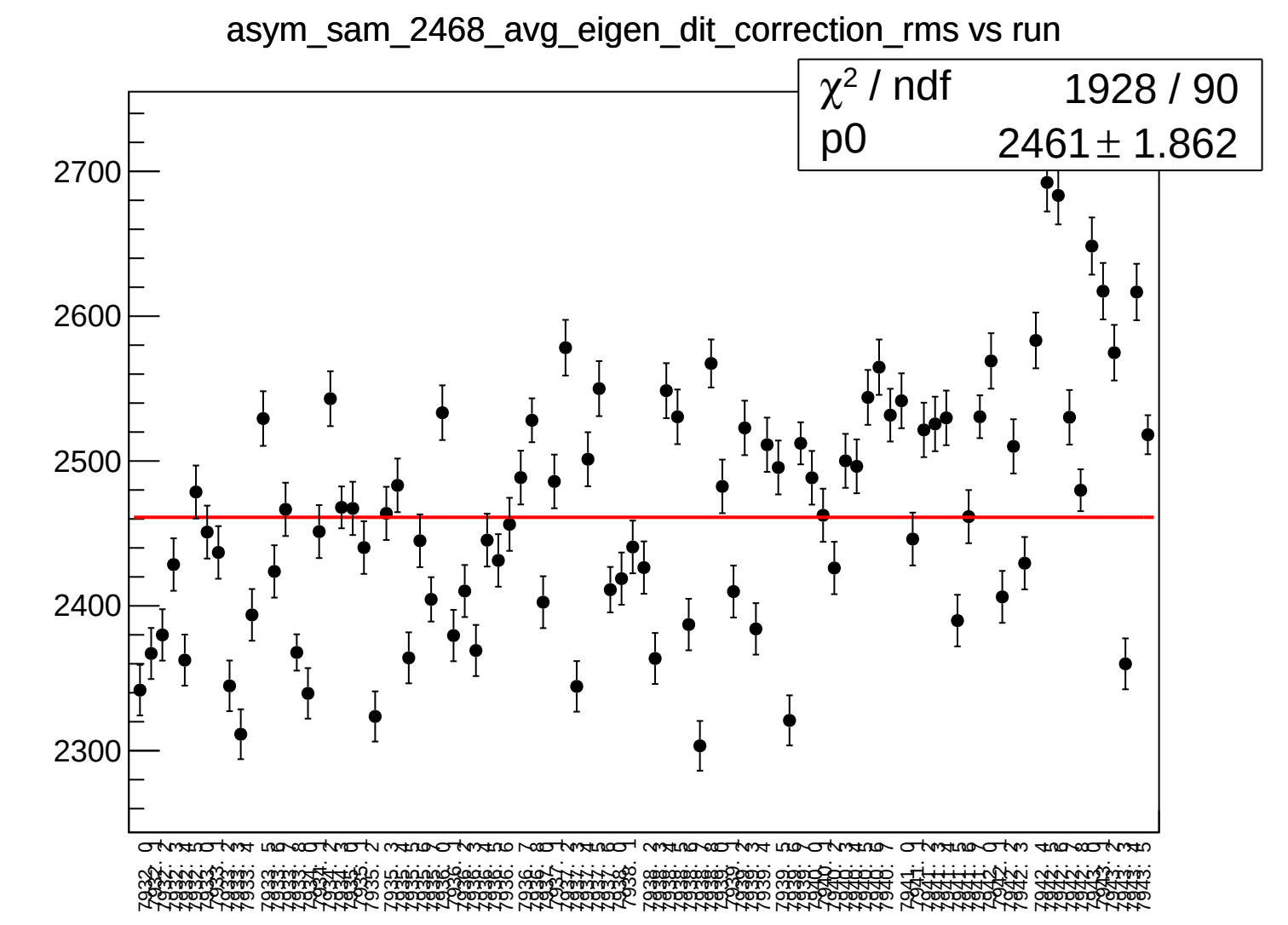

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 106.2 / 90
p0 887.1 ± 246.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −54.26
Std Dev 0
4
3
2
1
0
−1
−2

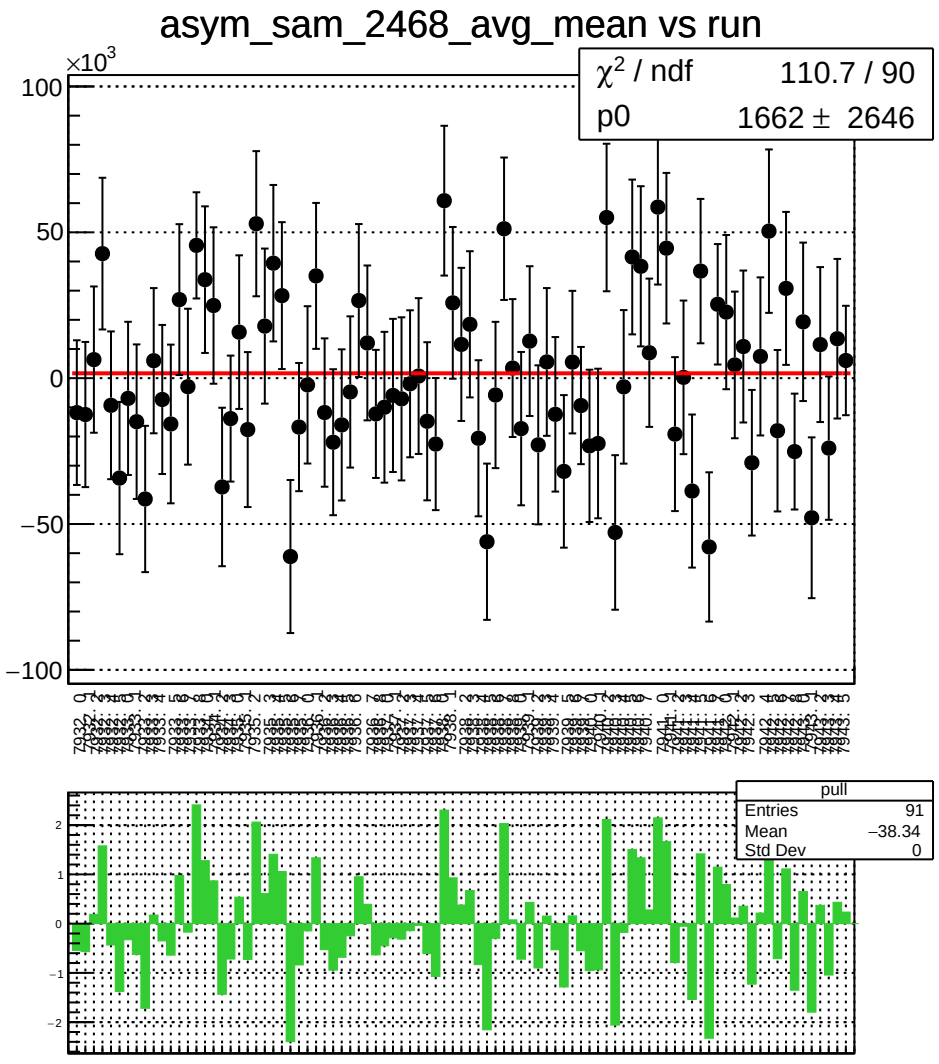

pull1D
Entries 91
Mean 0.008968
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

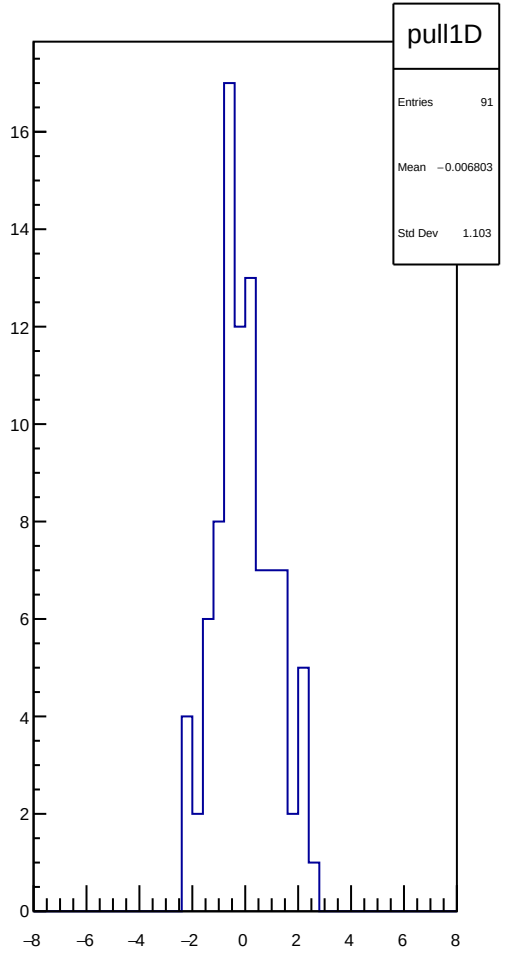

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 9260 / 90
p0 229.8 ± 0.1743
340
320
300
280
260
240
220
200

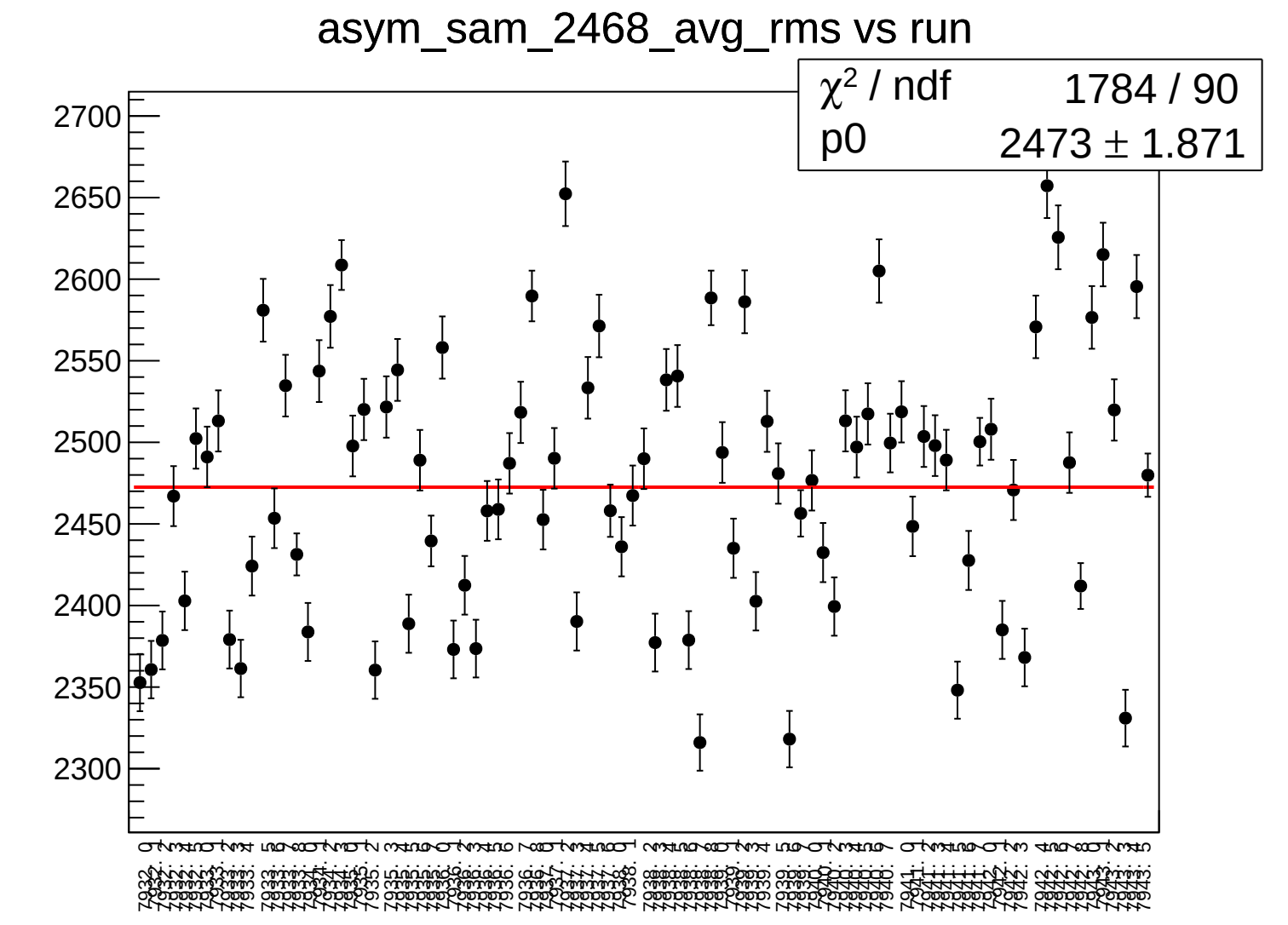

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 111.4 / 90
p0 −802.5 ± 2634
pull
Entries 91
Mean −27.55
Std Dev 0

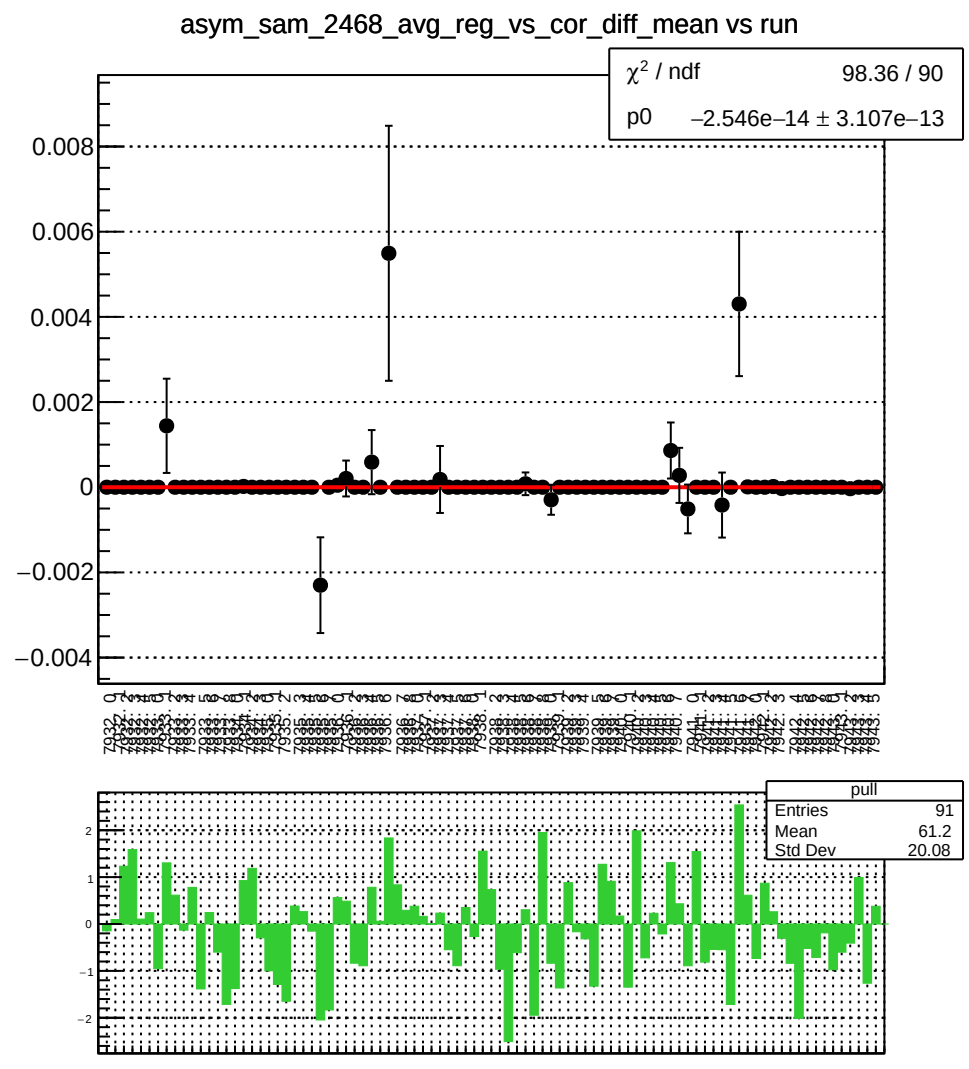

pull1D
Entries 91
Mean 0.008624
Std Dev 1.107

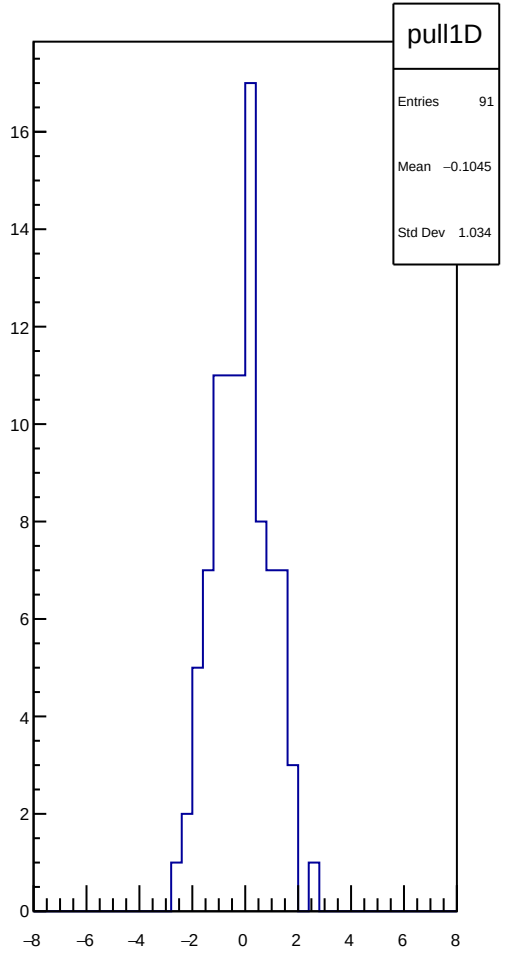

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1928 / 90
p0 2461 ± 1.862
2700
2600
2500
2400
2300

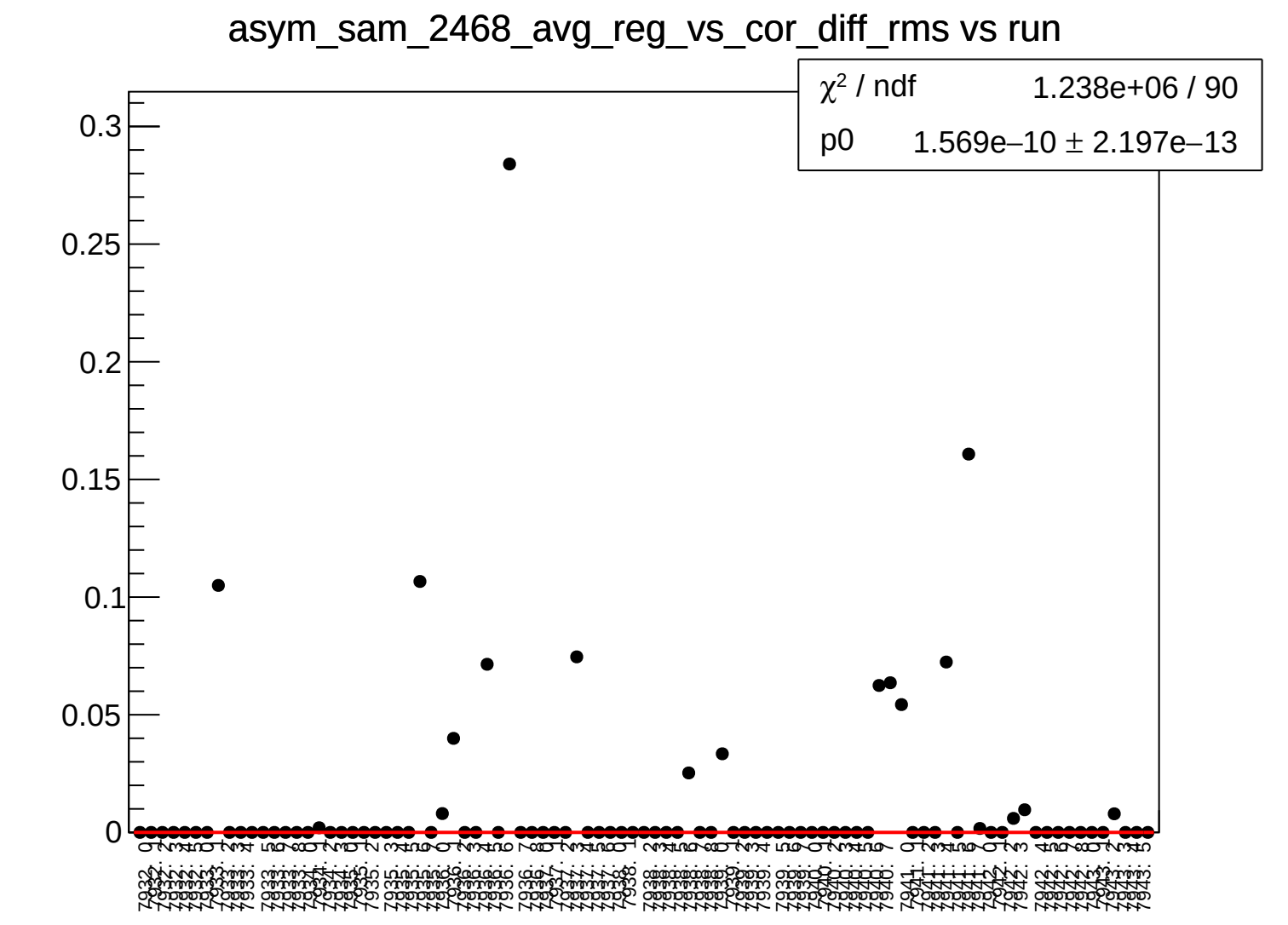

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 110.7 / 90
p0 1662 ± 2646
100
50
0
−50
−100
pull
Entries 91
Mean −38.34
Std Dev 0
2
1
0
−1
−2

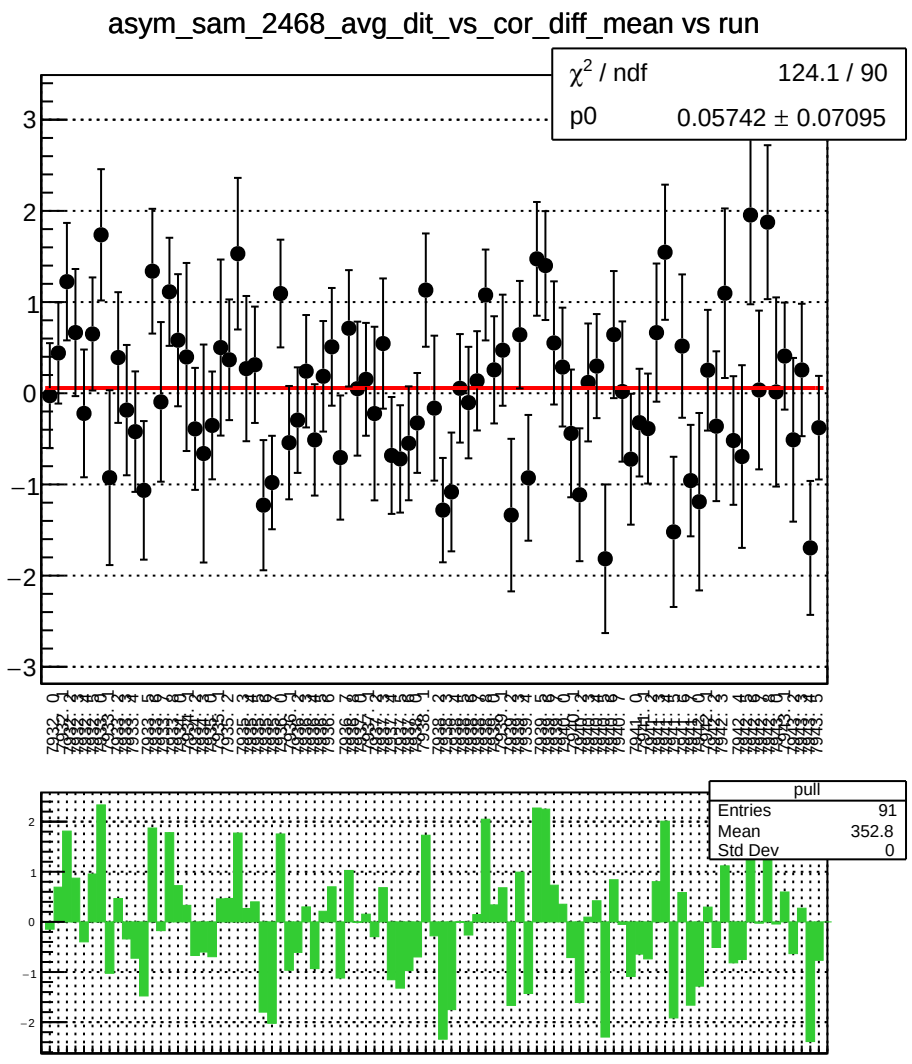

pull1D
Entries 91
Mean −0.006803
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

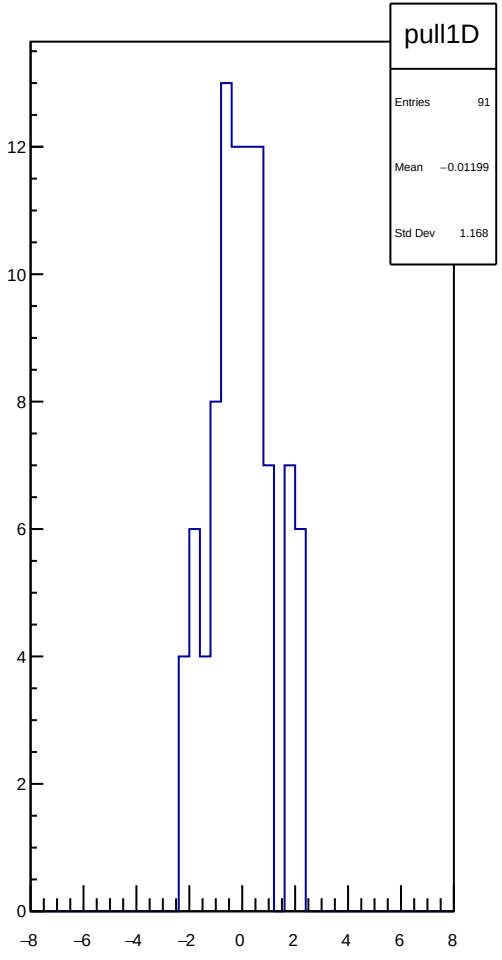

asym_sam_2468_avg_rms vs run
χ^2 / ndf 1784 / 90
p0 2473 ± 1.871
2700
2650
2600
2550
2500
2450
2400
2350
2300

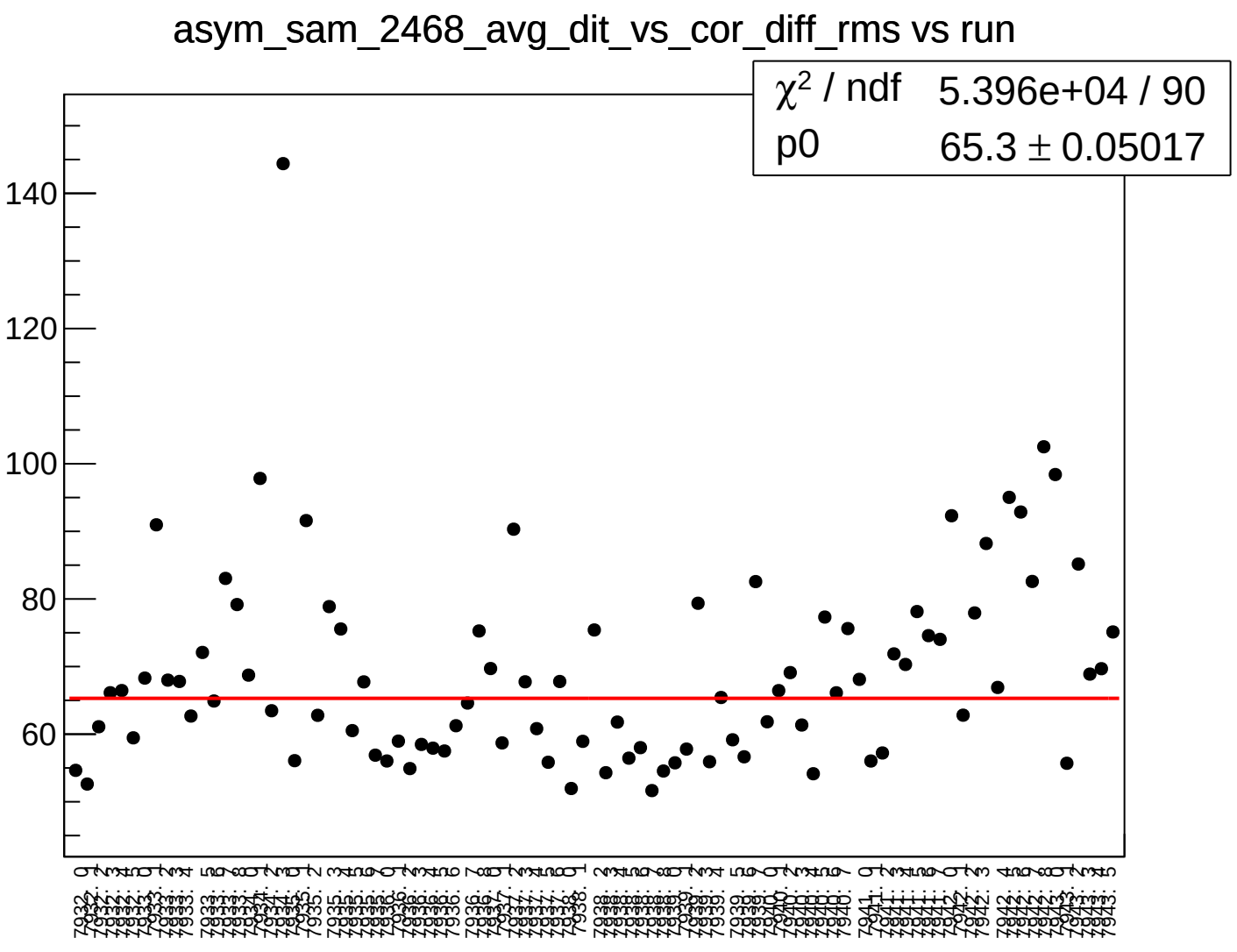

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.36 / 90
p0 −2.546e−14 ± 3.107e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 91
Mean 61.2
Std Dev 20.08
2
1
0
−1
−2

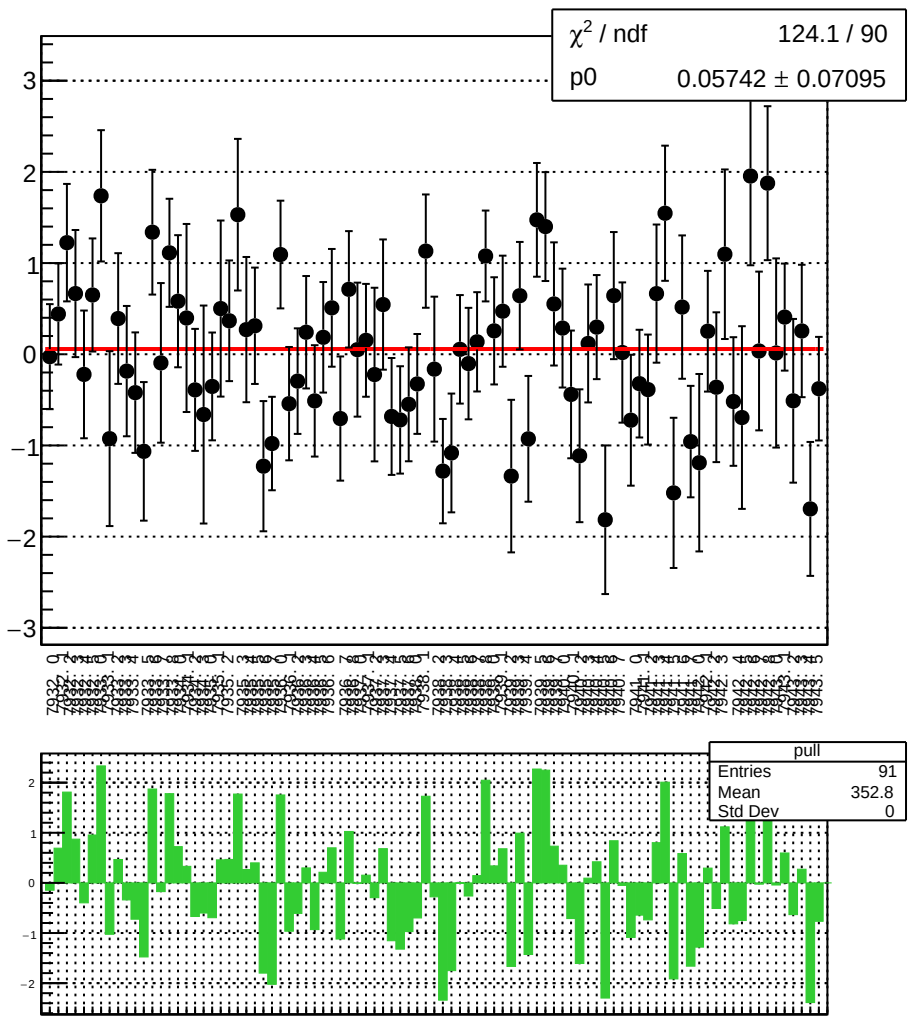

pull1D
Entries 91
Mean −0.1045
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

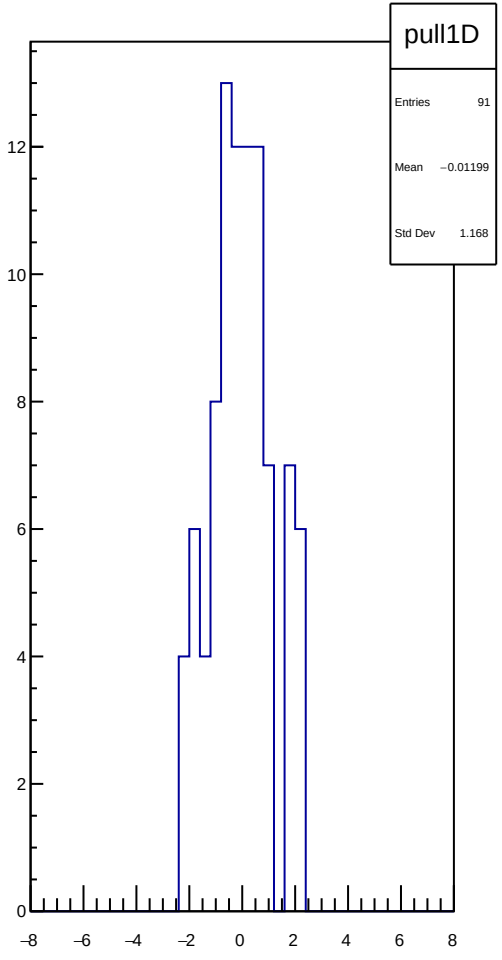

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.238e+06 / 90
p0 1.569e−10 ± 2.197e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

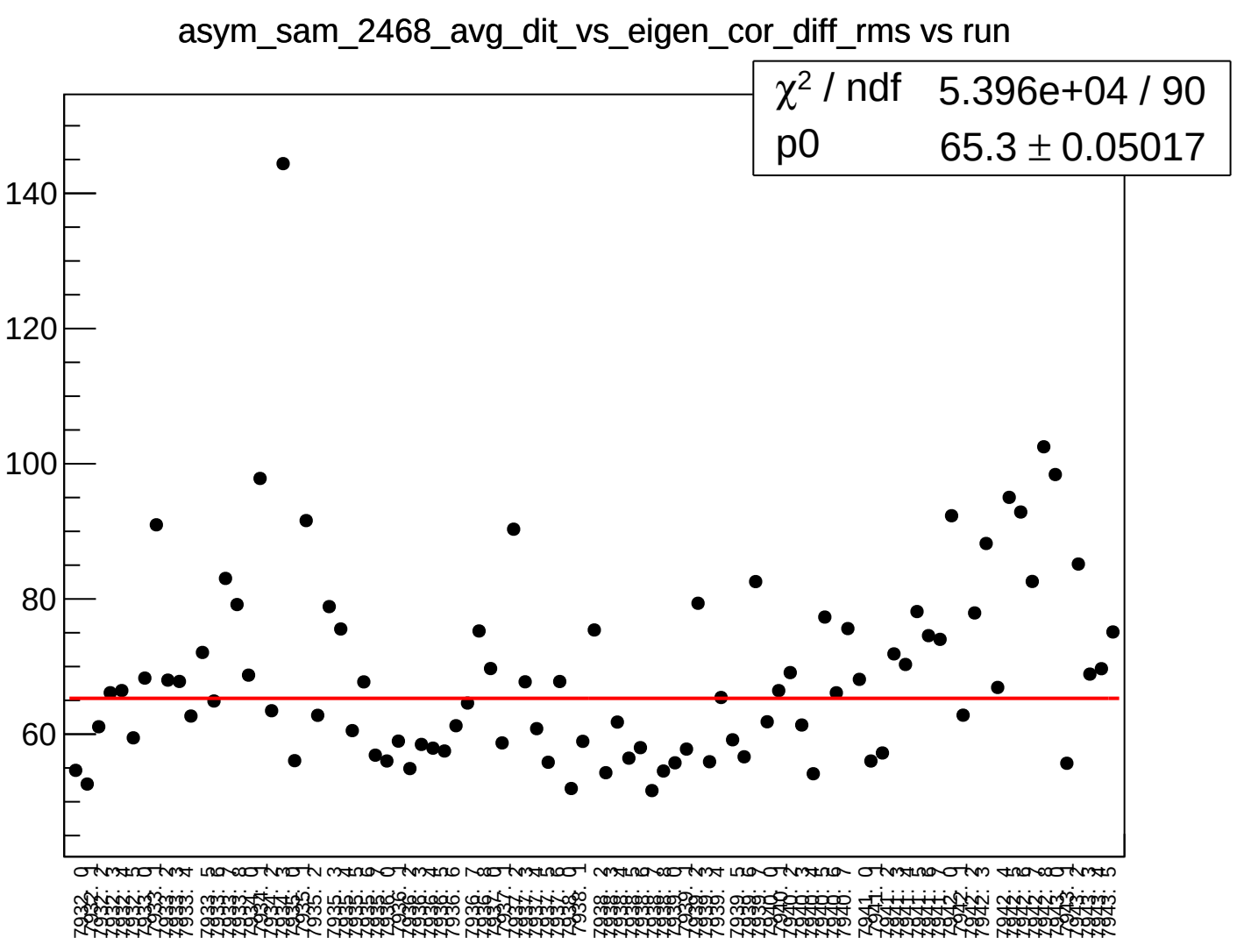

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 124.1 / 90
p0 0.05742 ± 0.07095
pull
Entries 91
Mean 352.8
Std Dev 0

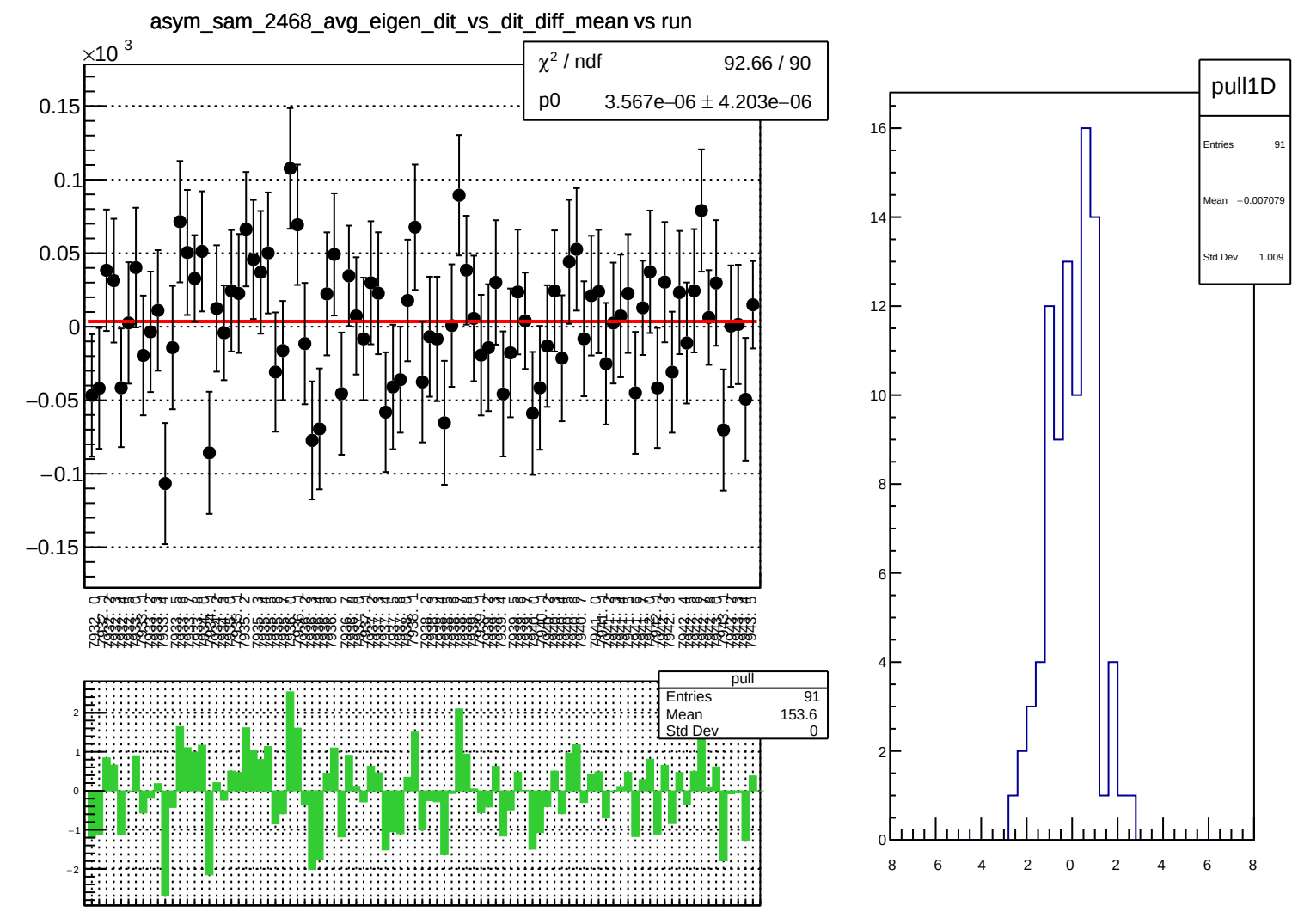

pull1D
Entries 91
Mean −0.01199
Std Dev 1.168

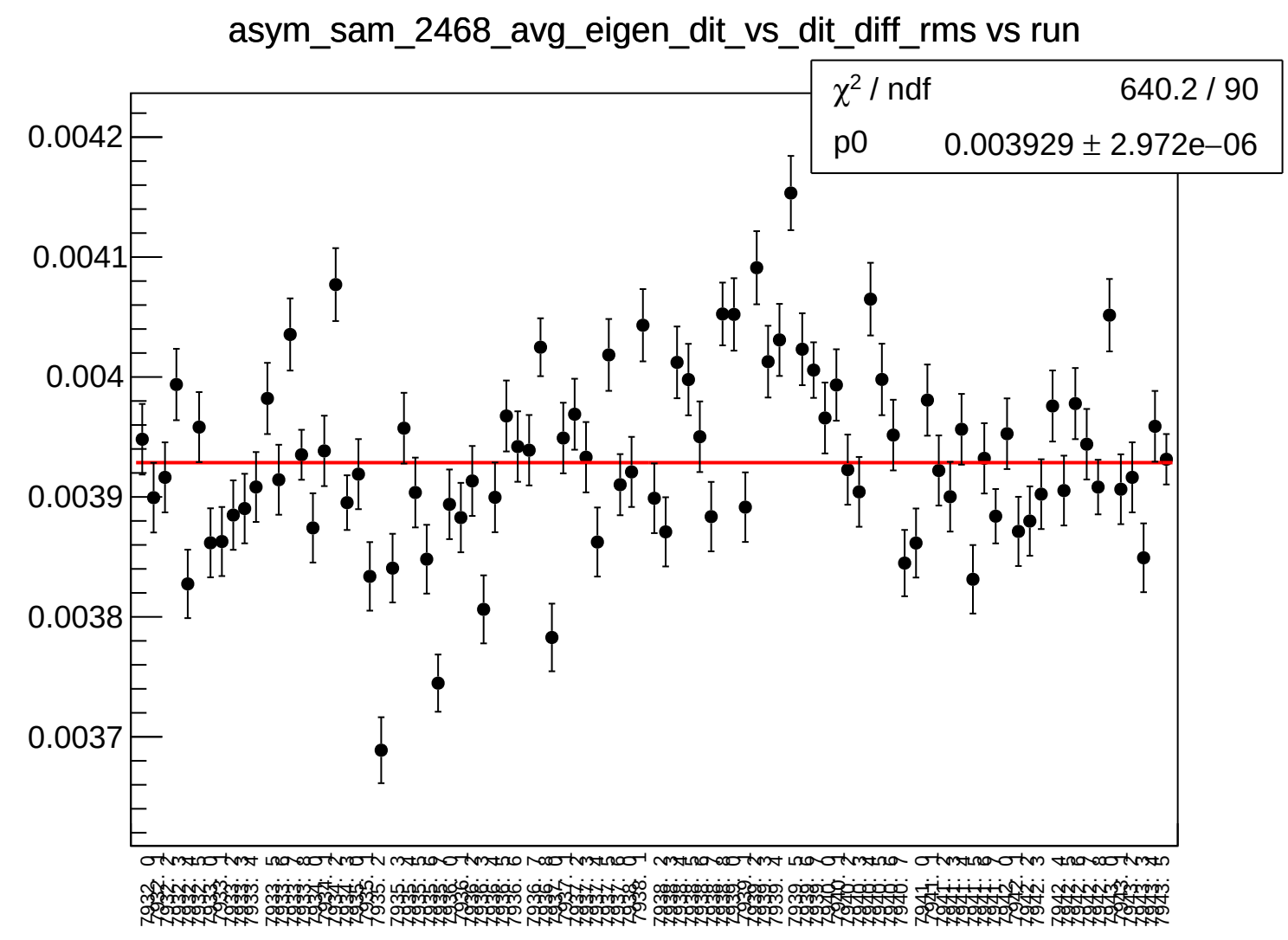

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.396e+04 / 90
p0 65.3 ± 0.05017
140
120
100
80
60

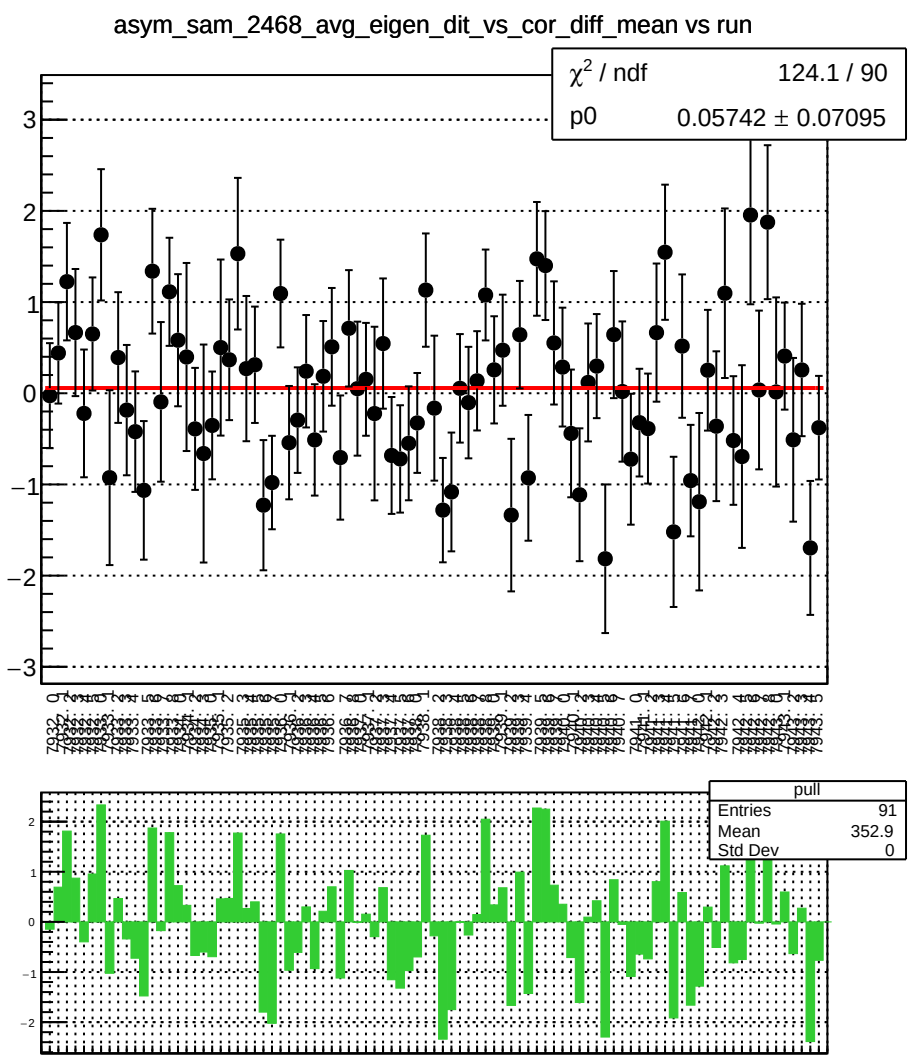

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.1 / 90
p0 0.05742 ± 0.07095
pull
Entries 91
Mean 352.8
Std Dev 0

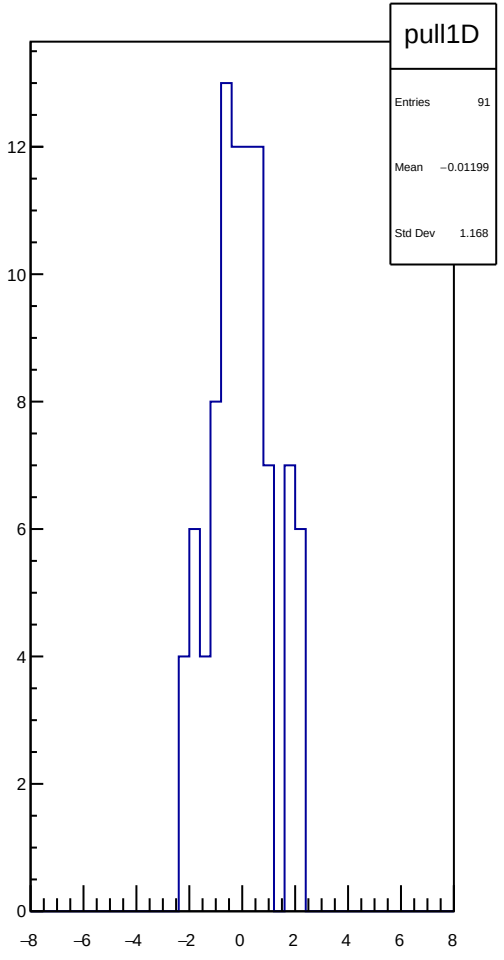

pull1D
Entries 91
Mean −0.01199
Std Dev 1.168

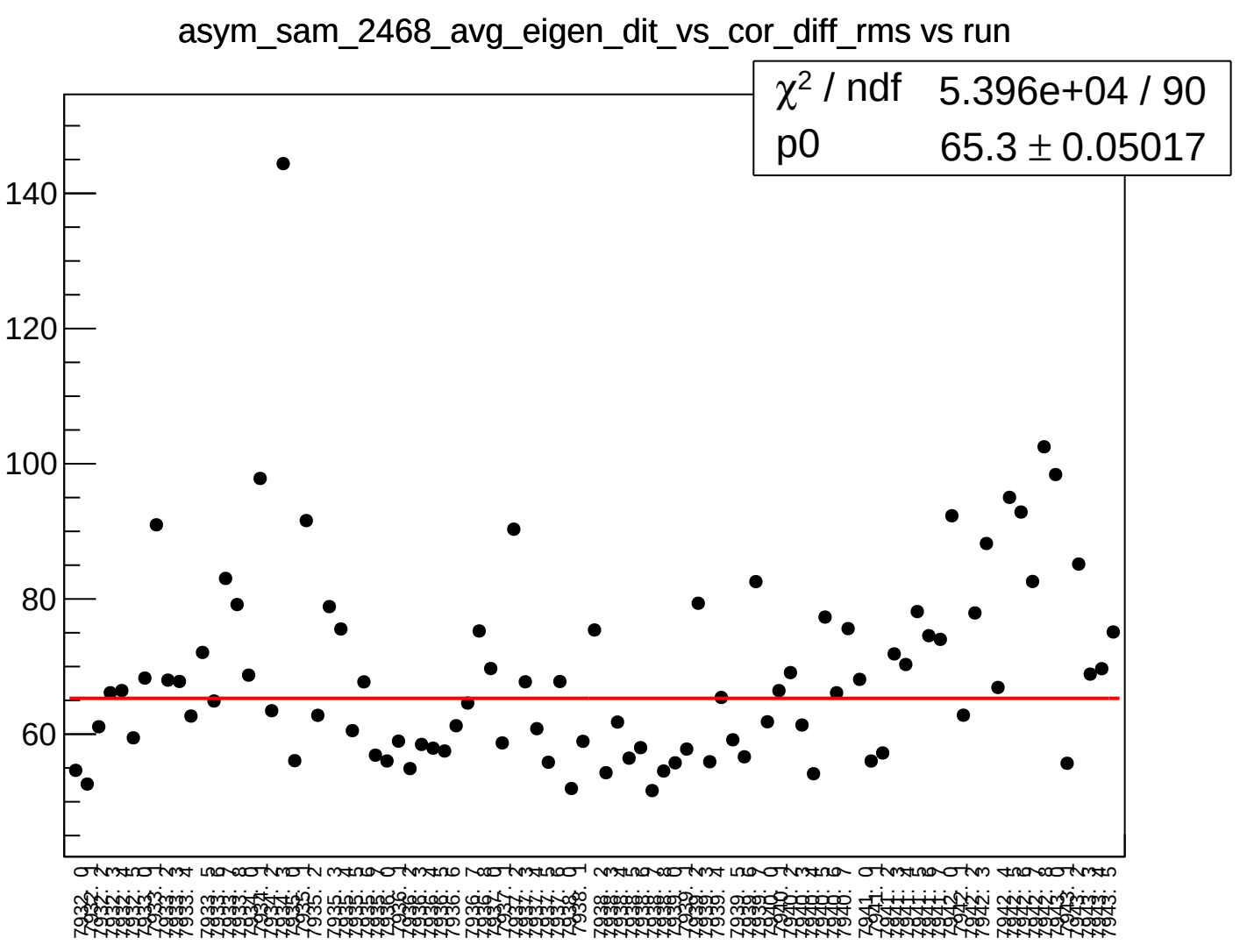

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.396e+04 / 90
p0 65.3 ± 0.05017
140
120
100
80
60

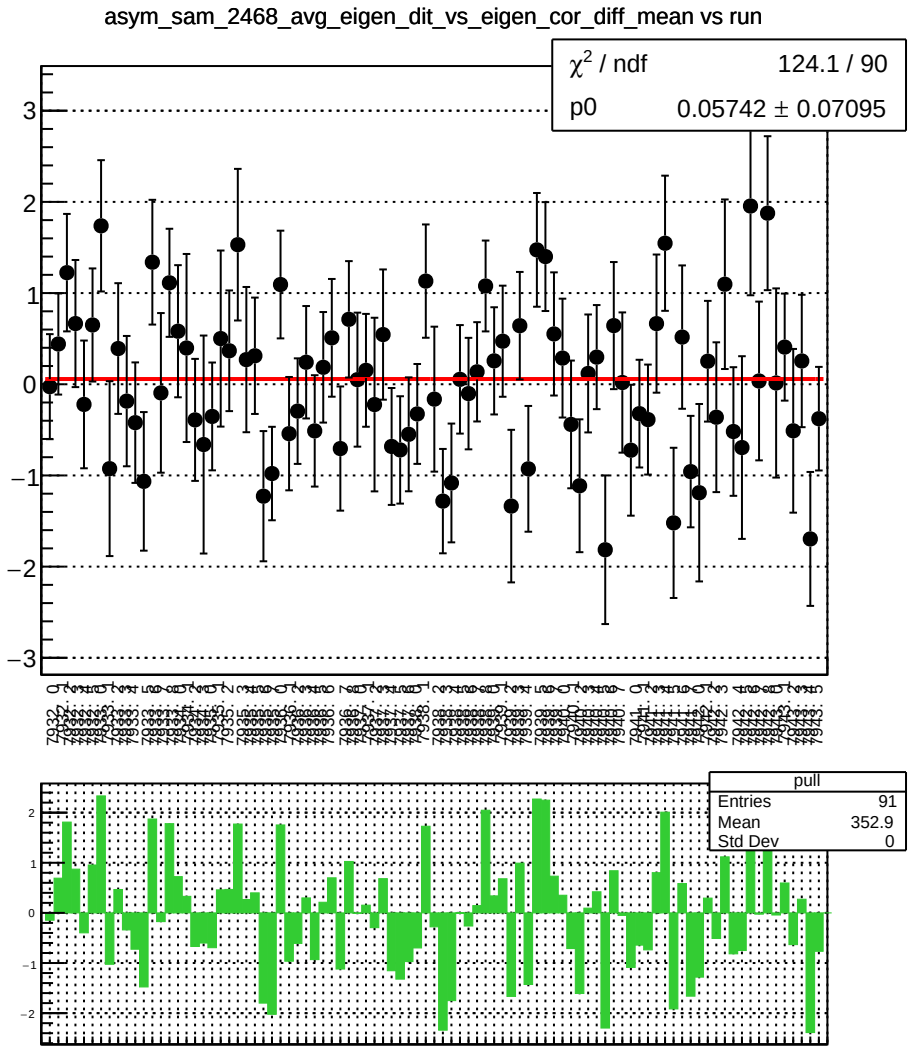

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.66 / 90
p0 3.567e−06 ± 4.203e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 153.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.007079
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

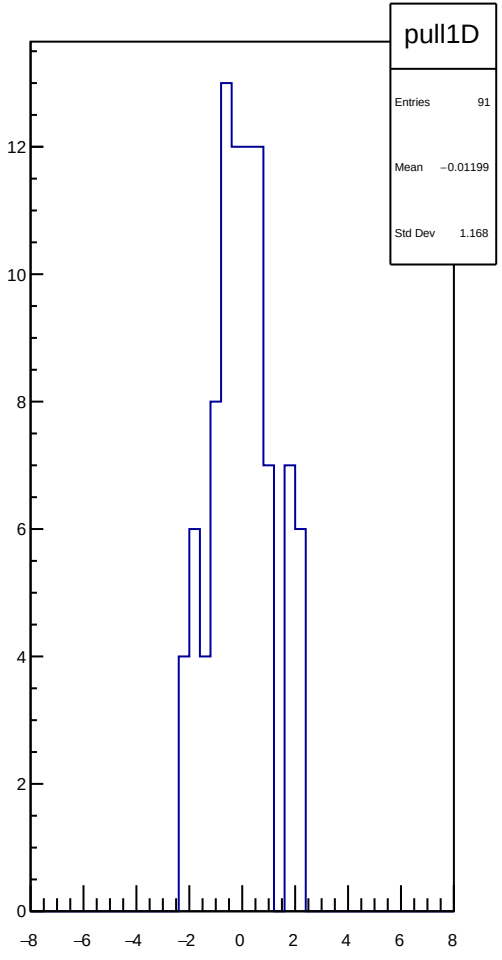

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 640.2 / 90
p0 0.003929 ± 2.972e−06
0.0042
0.0041
0.004
0.0039
0.0038
0.0037

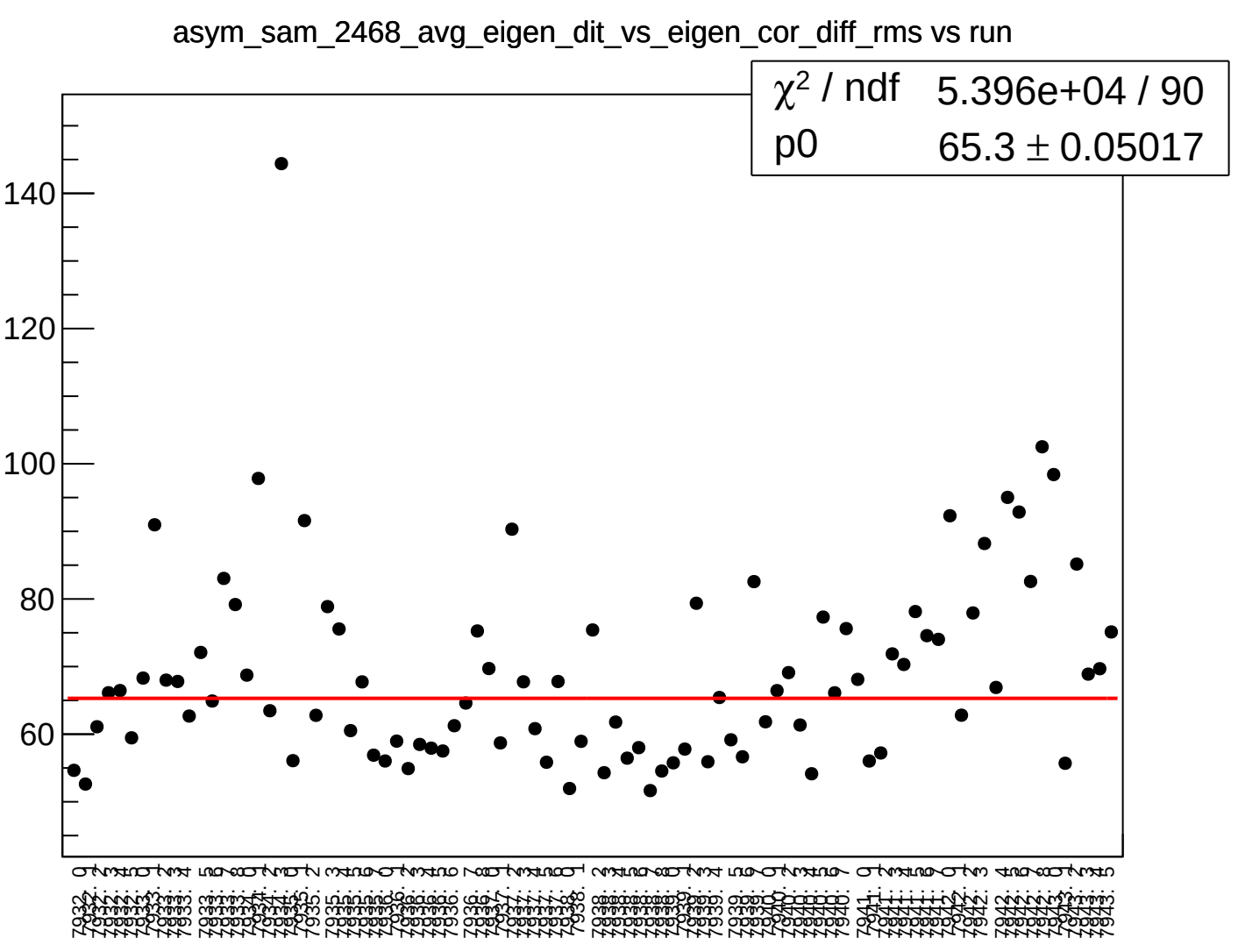

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124.1 / 90
p0 0.05742 ± 0.07095
pull
Entries 91
Mean 352.9
Std Dev 0

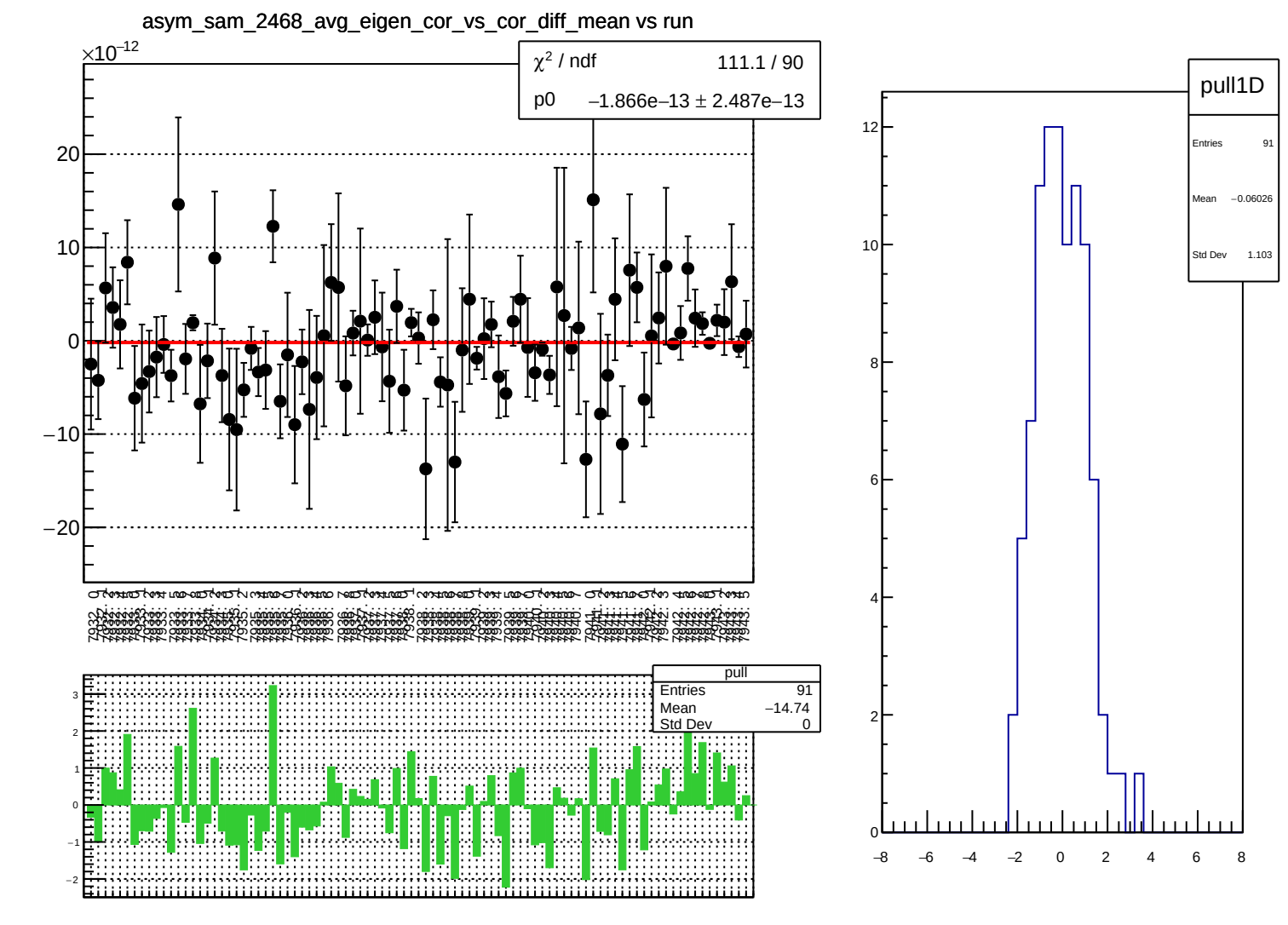

pull1D
Entries 91
Mean −0.01199
Std Dev 1.168

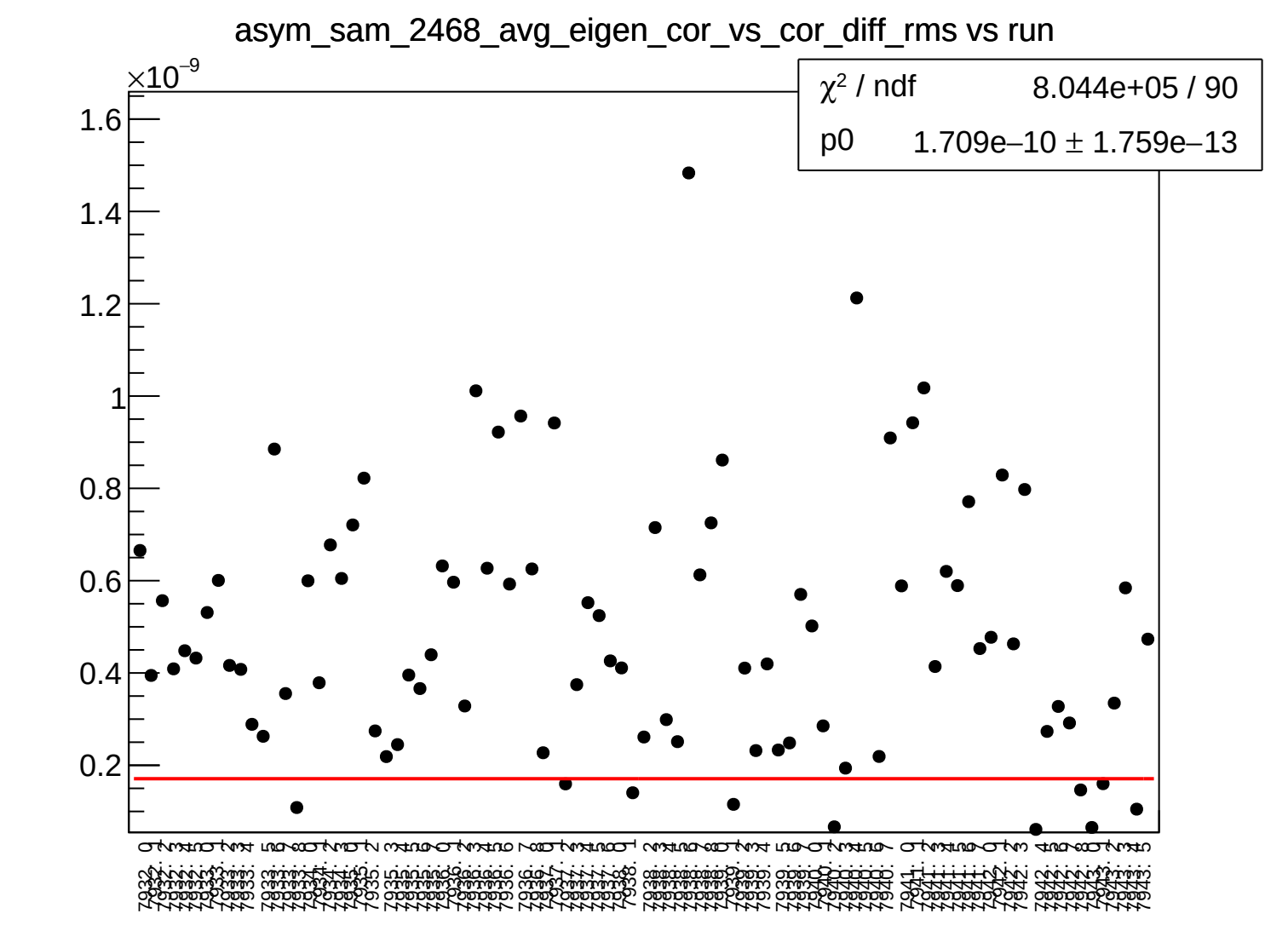

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.396e+04 / 90
p0 65.3 ± 0.05017
140
120
100
80
60

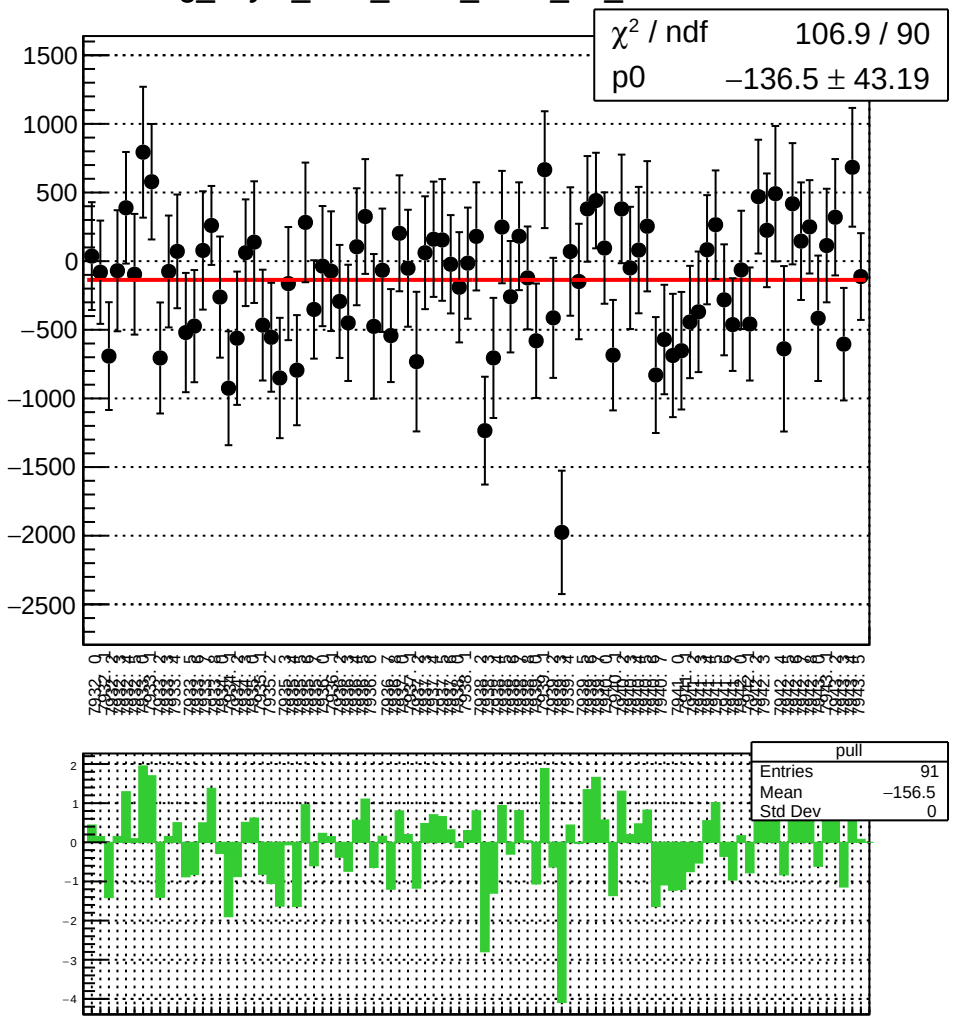

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.1 / 90
p0 0.05742 ± 0.07095
pull
Entries 91
Mean 352.9
Std Dev 0

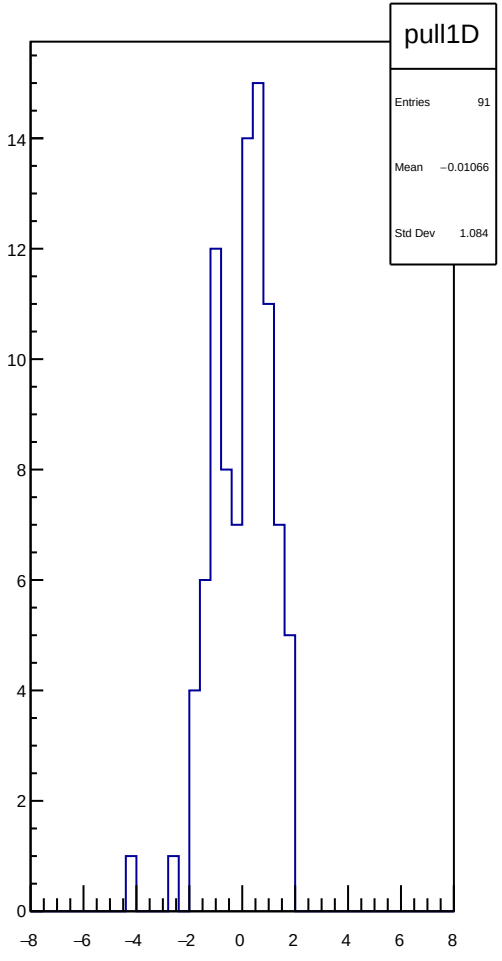

pull1D
Entries 91
Mean −0.01199
Std Dev 1.168

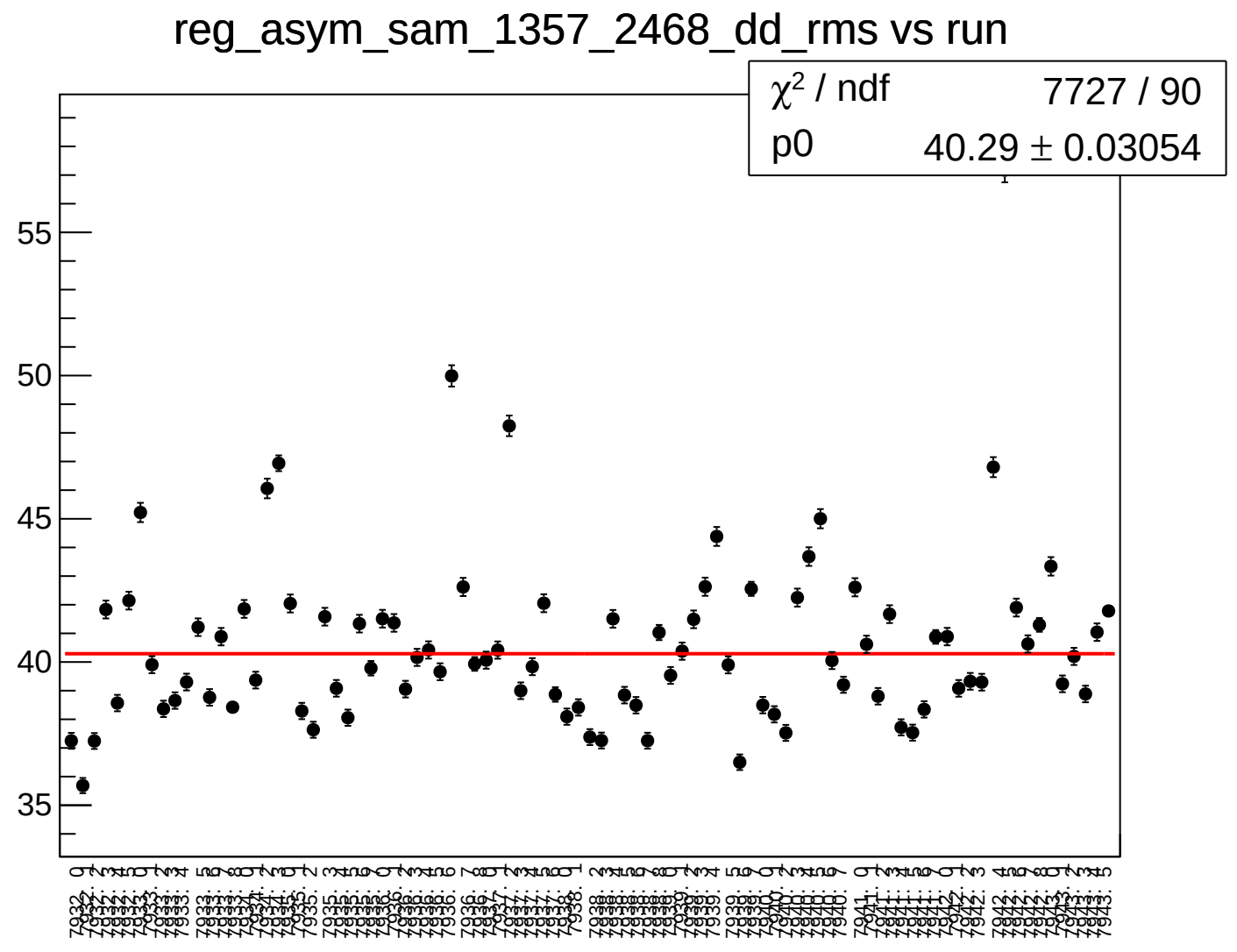

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.396e+04 / 90
p0 65.3 ± 0.05017
140
120
100
80
60

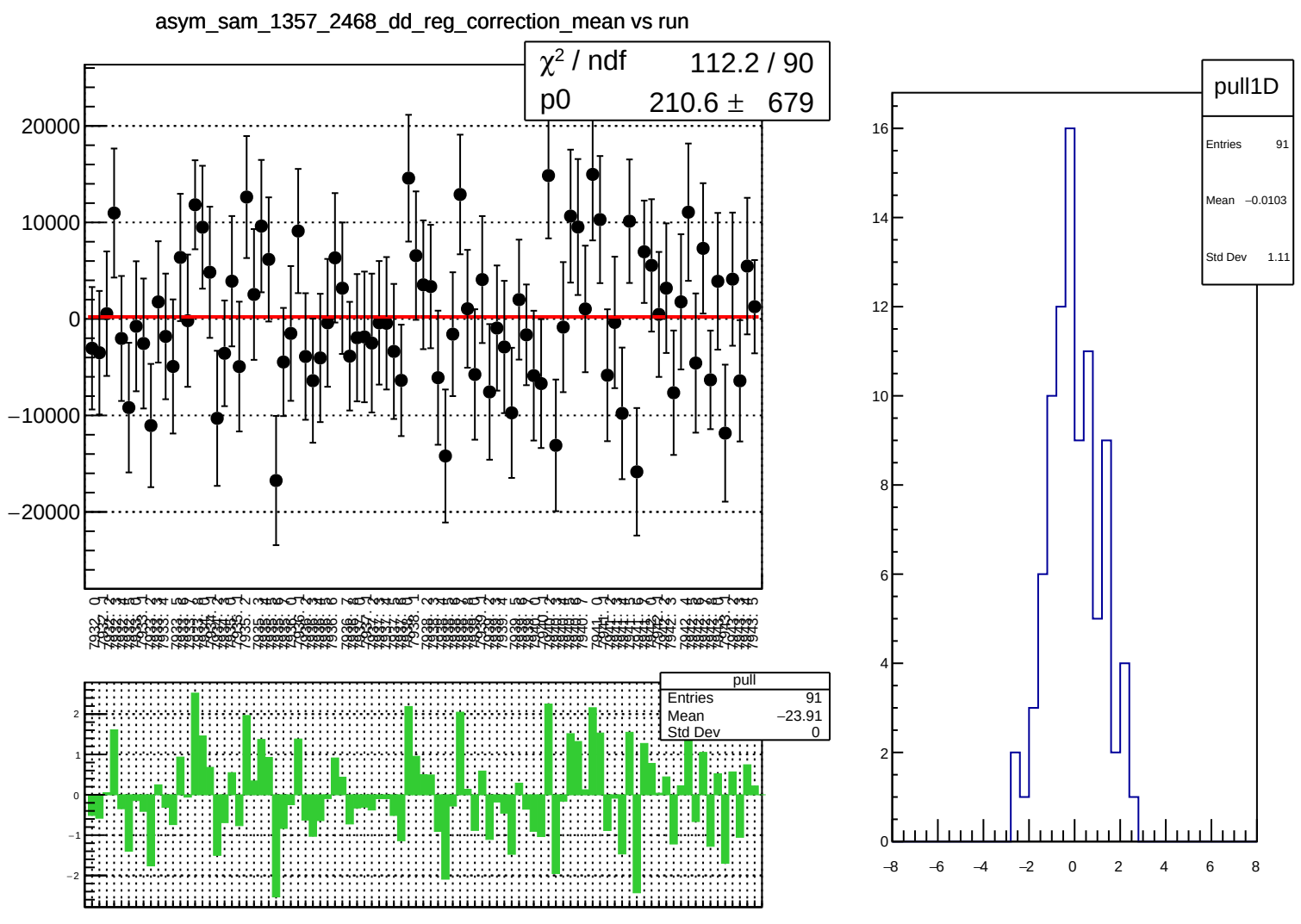

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.1 / 90
p0 −1.866e−13 ± 2.487e−13
20
10
0
−10
−20
pull
Entries 91
Mean −14.74
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.06026
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

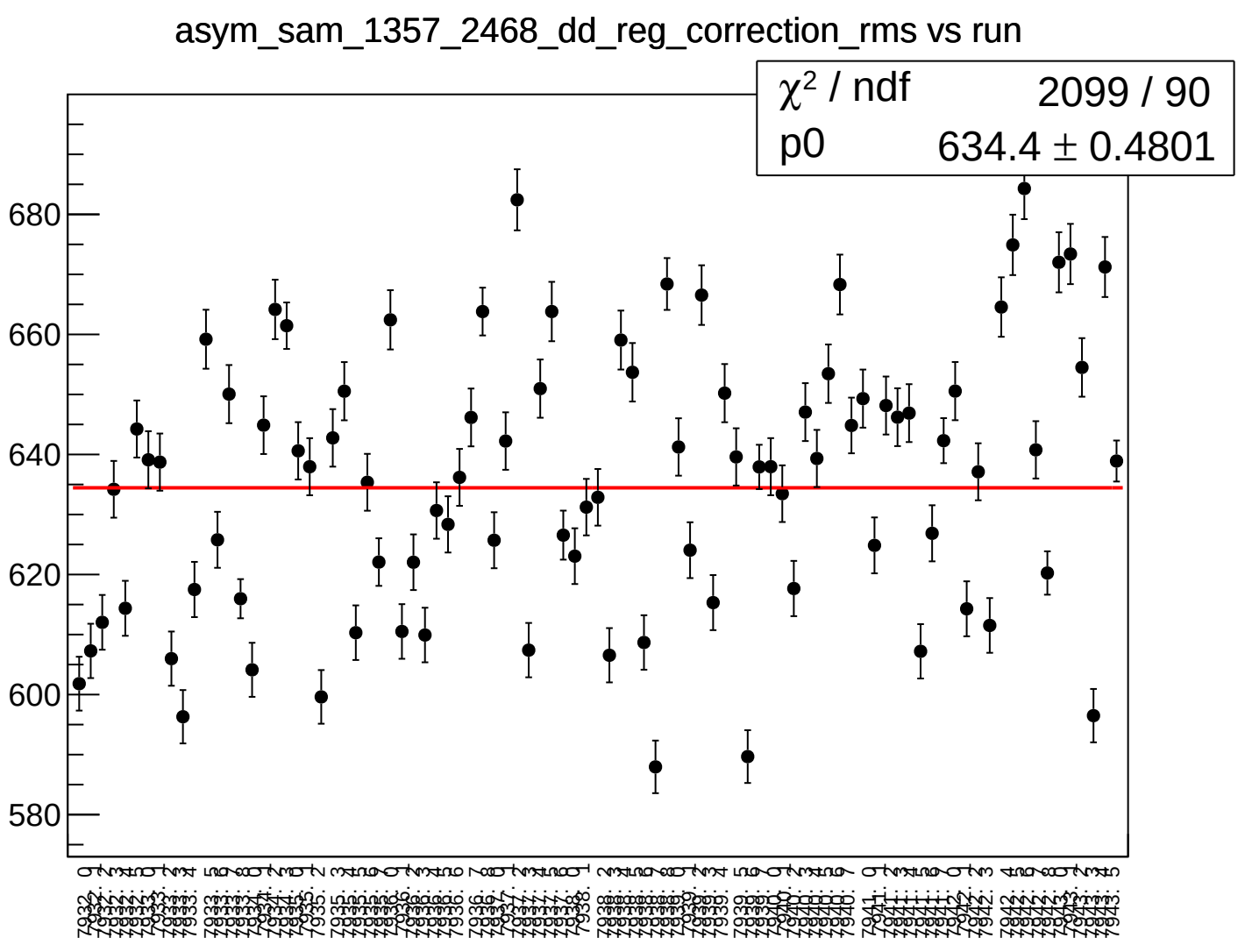

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.044e+05 / 90
p0 1.709e−10 ± 1.759e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

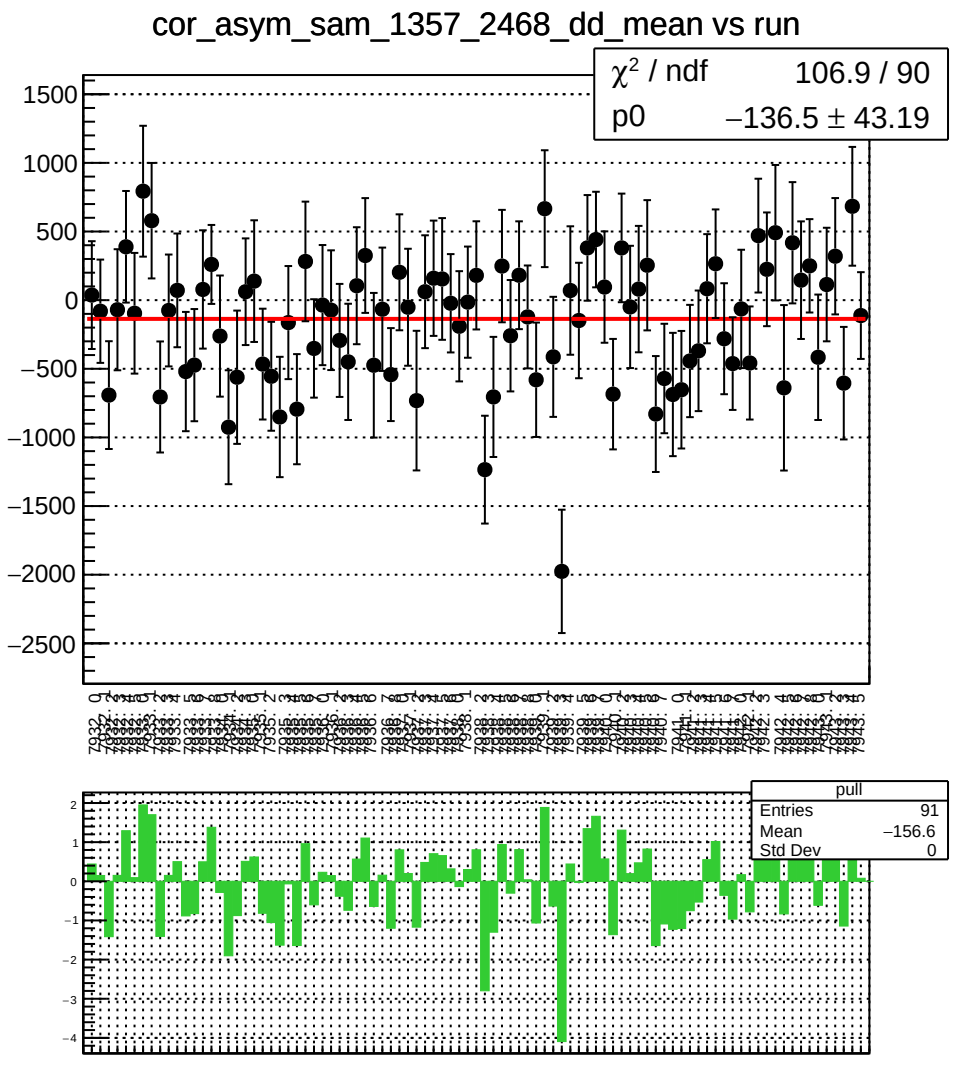

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 106.9 / 90
p0 −136.5 ± 43.19
pull
Entries 91
Mean −156.5
Std Dev 0

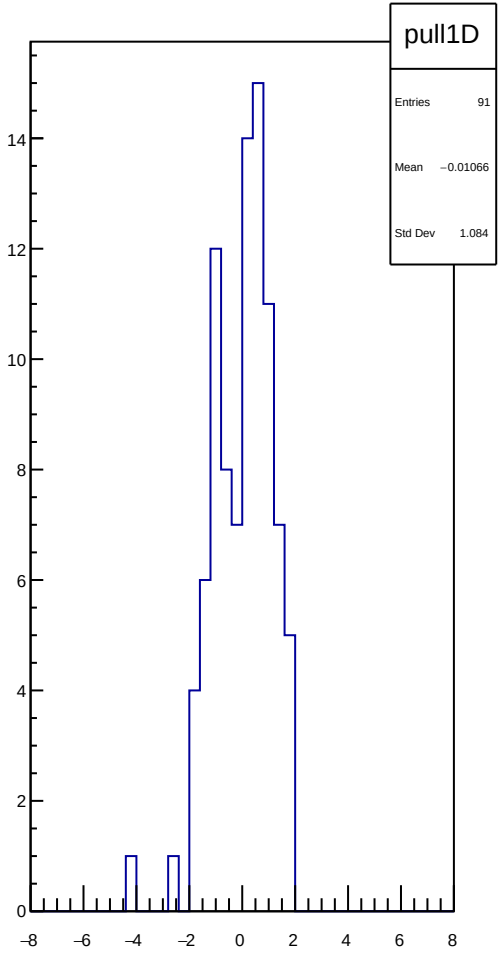

pull1D
Entries 91
Mean −0.01066
Std Dev 1.084

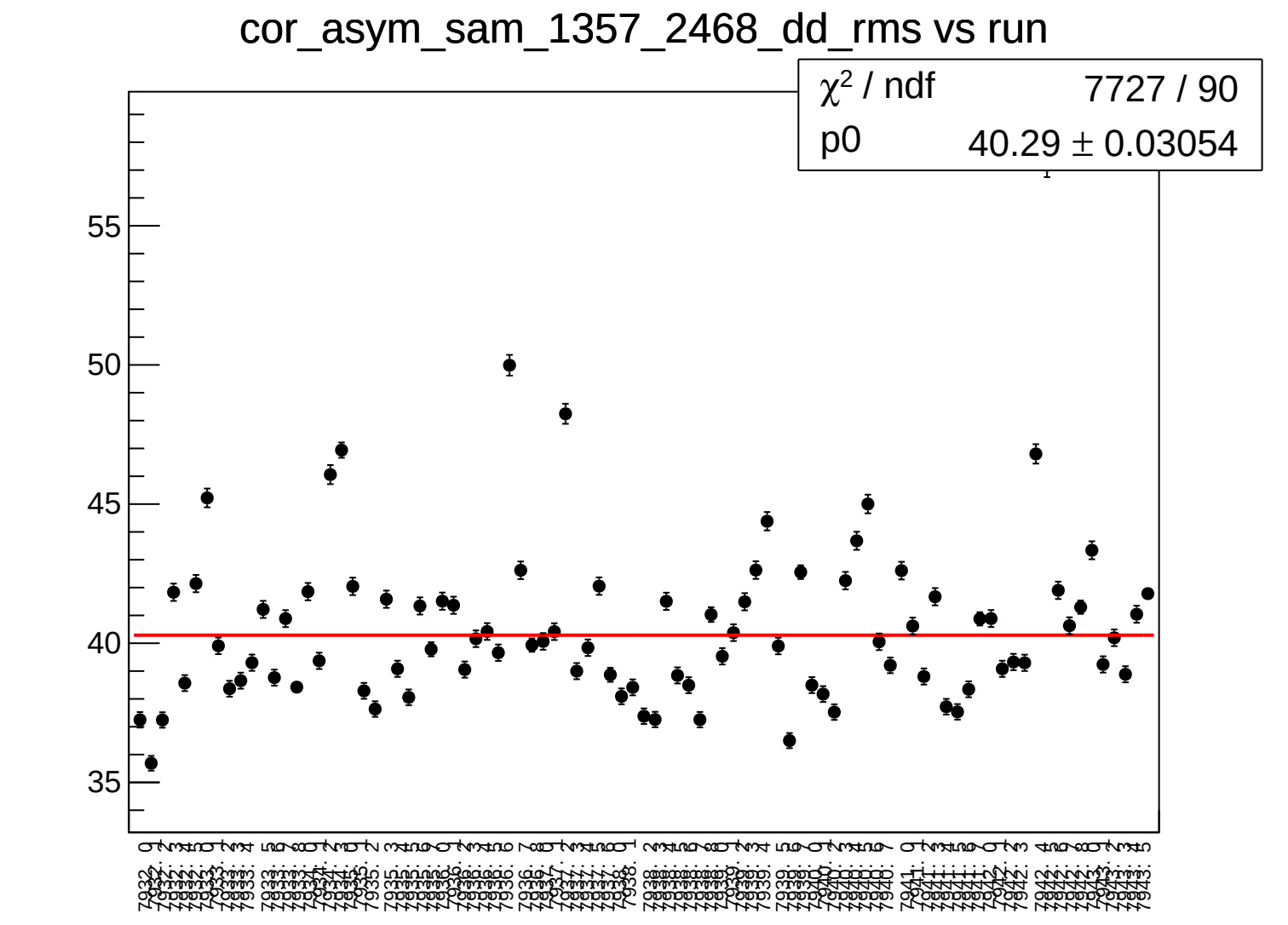

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7727 / 90
p0 40.29 ± 0.03054
55
50
45
40
35

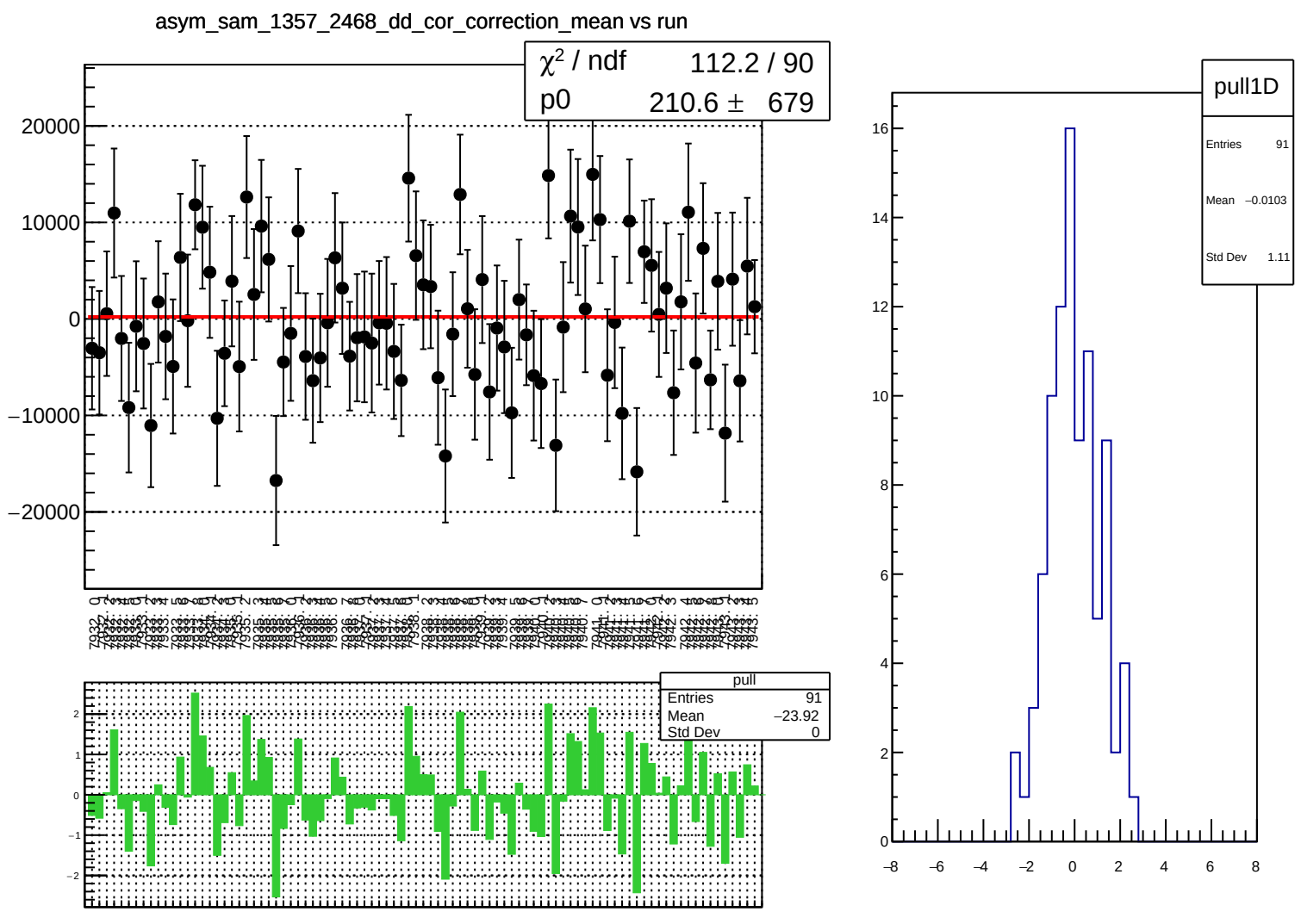

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 112.2 / 90
p0 210.6 ± 679
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −23.91
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0103
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

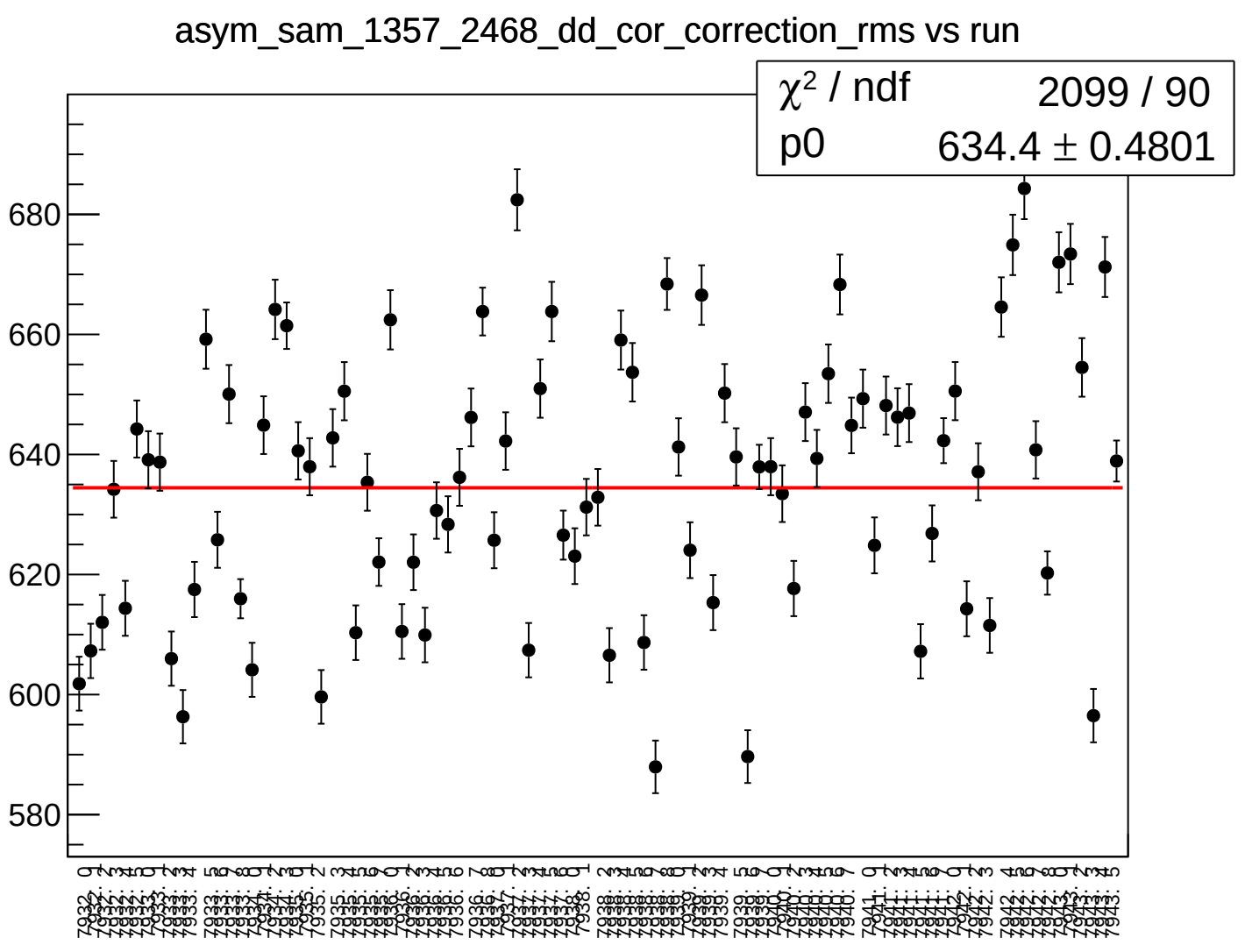

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2099 / 90
p0 634.4 ± 0.4801
680
660
640
620
600
580

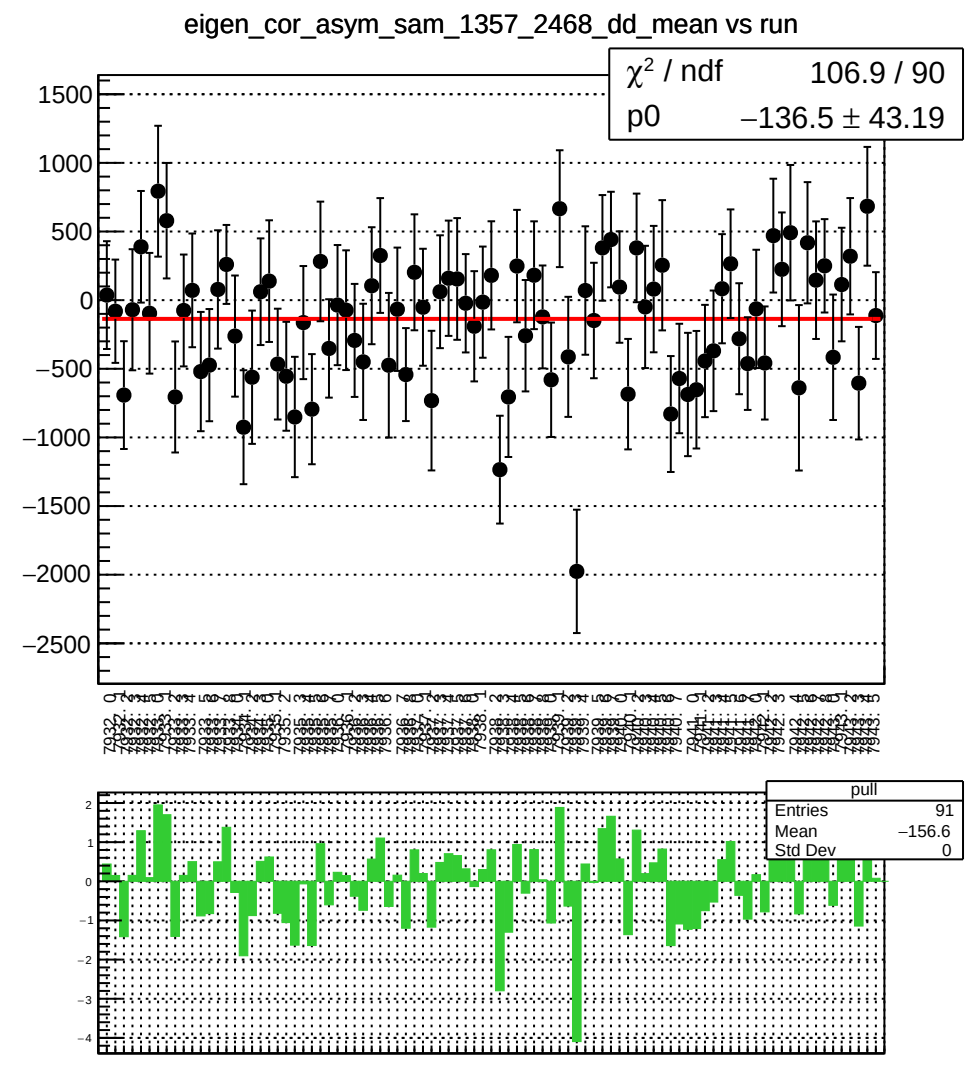

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 106.9 / 90
p0 −136.5 ± 43.19
pull
Entries 91
Mean −156.6
Std Dev 0

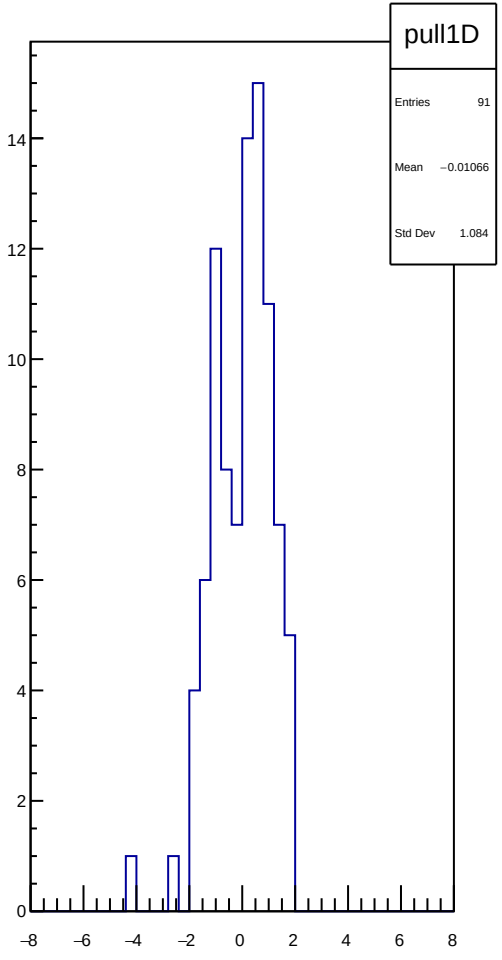

pull1D
Entries 91
Mean −0.01066
Std Dev 1.084

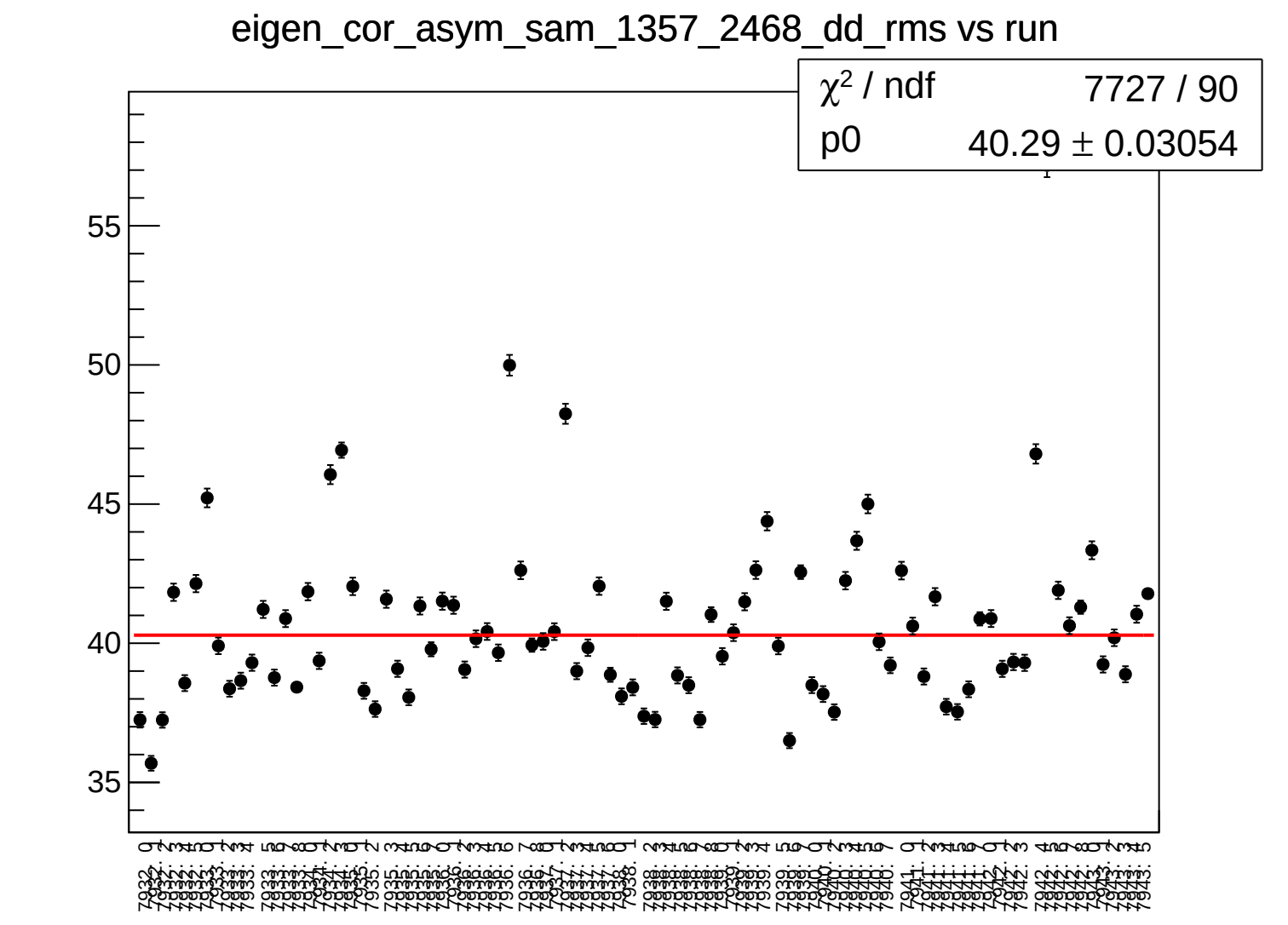

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7727 / 90
p0 40.29 ± 0.03054
55
50
45
40
35

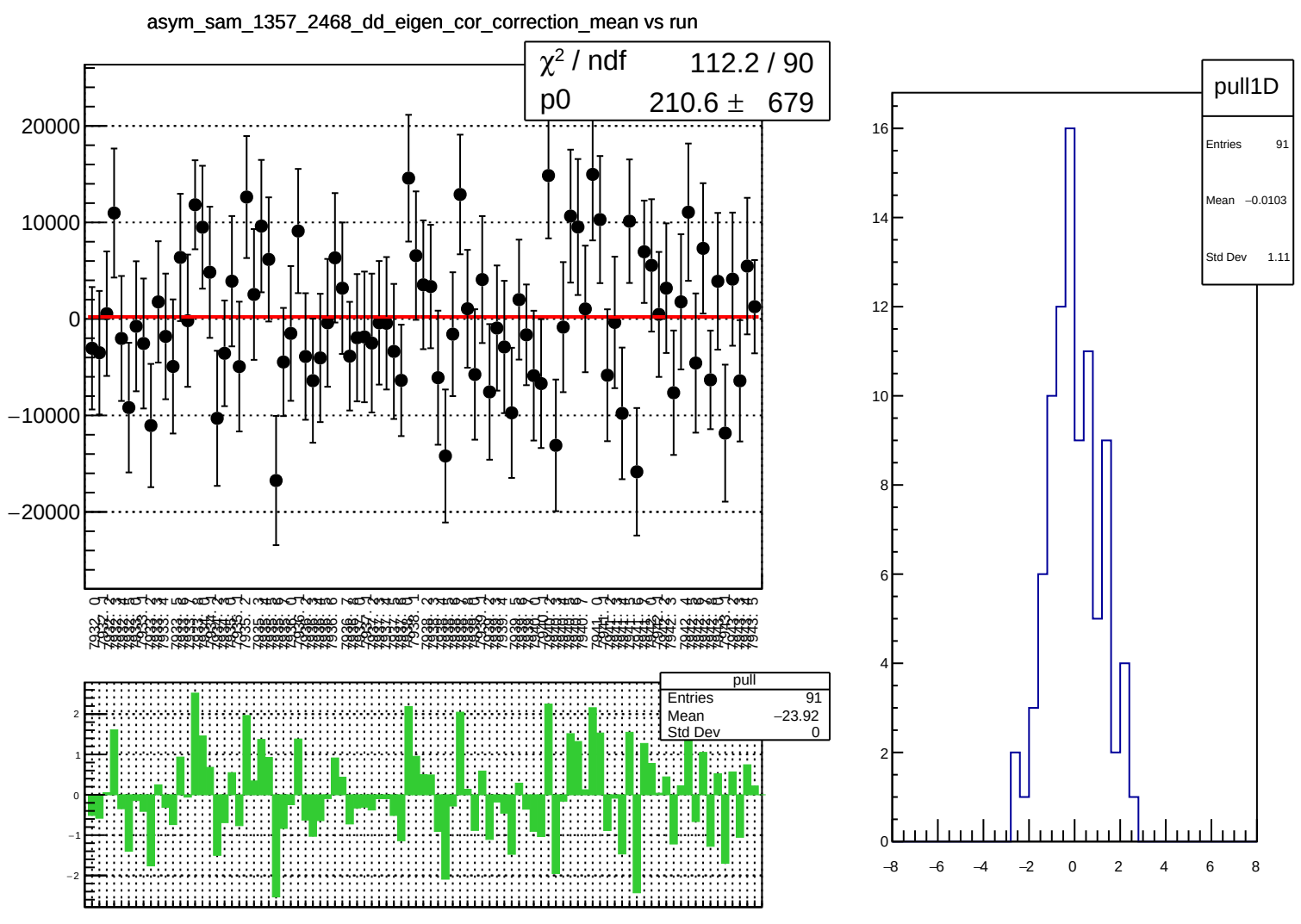

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 112.2 / 90
p0 210.6 ± 679
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −23.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0103
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

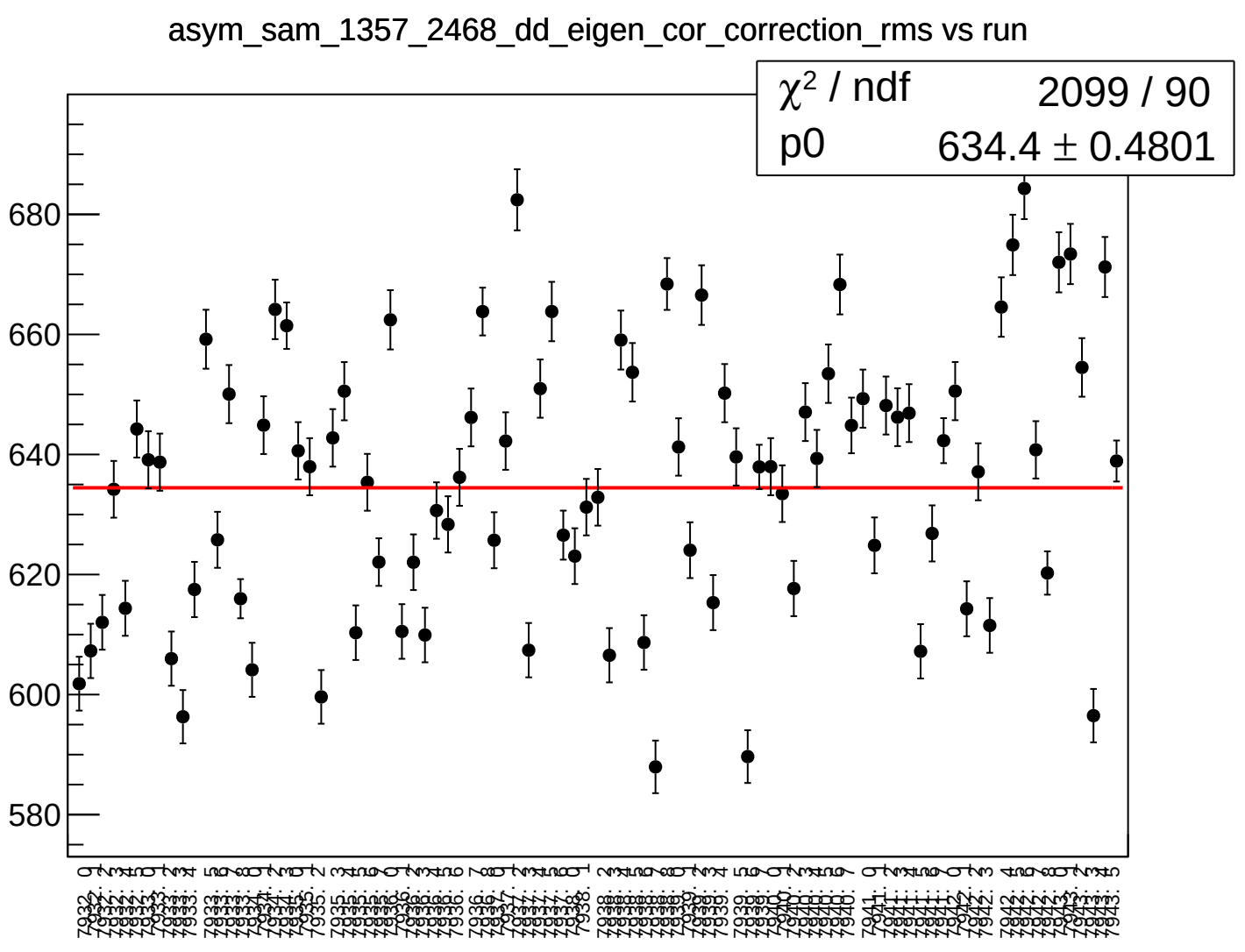

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2099 / 90
p0 634.4 ± 0.4801
680
660
640
620
600
580

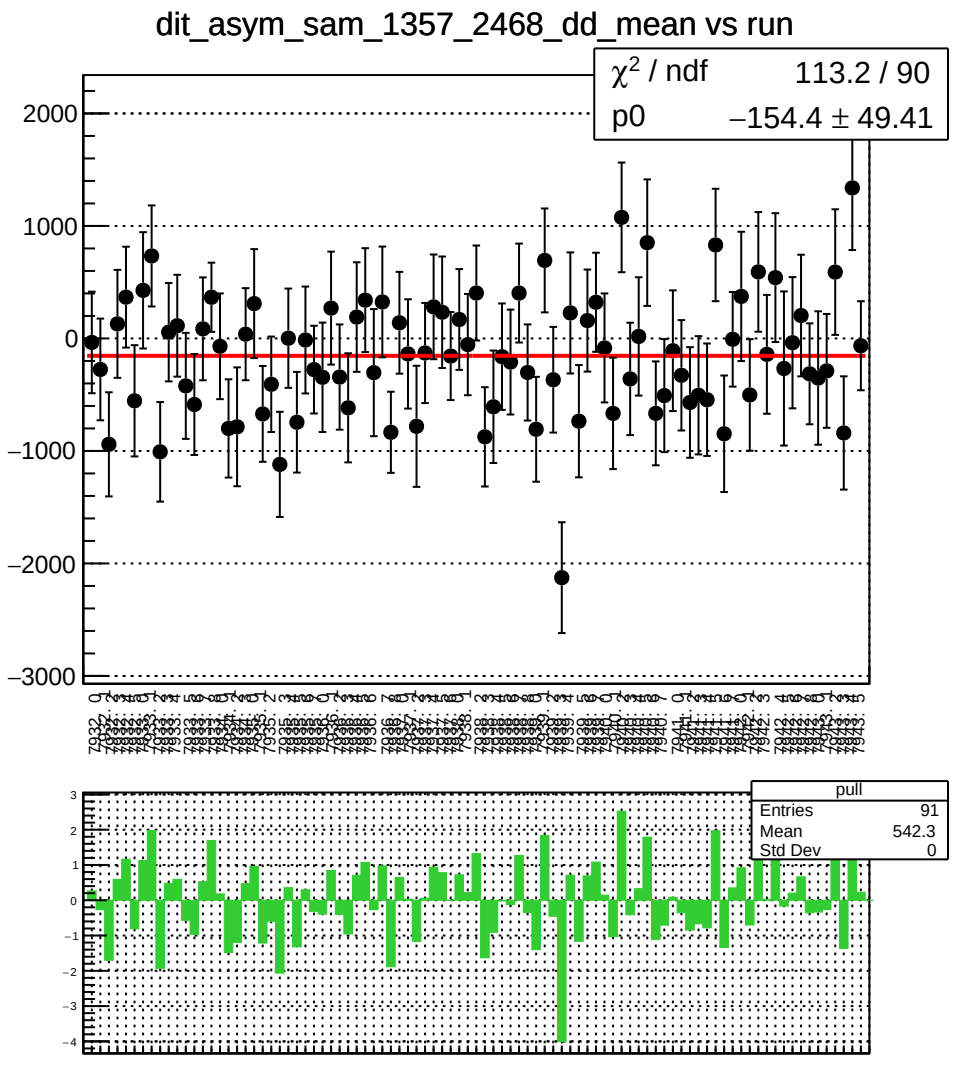

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 106.9 / 90
p0 −136.5 ± 43.19
pull
Entries 91
Mean −156.6
Std Dev 0

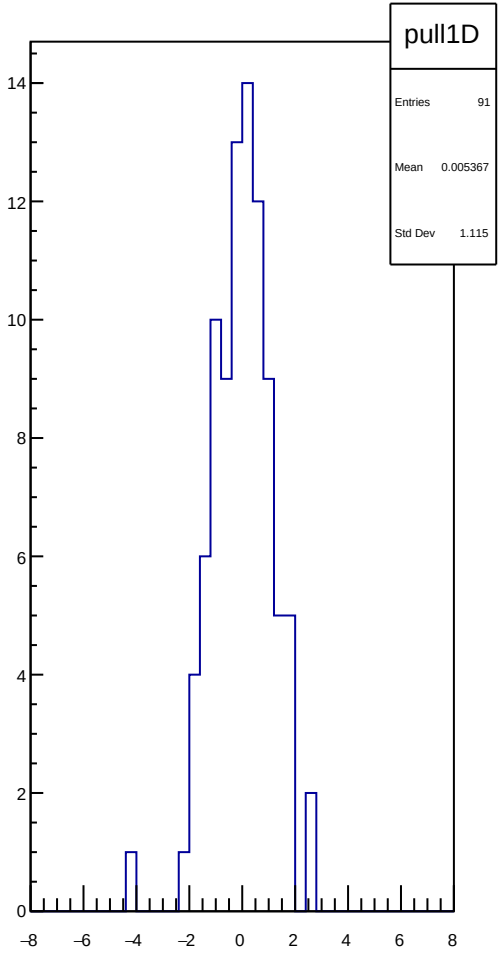

pull1D
Entries 91
Mean −0.01066
Std Dev 1.084

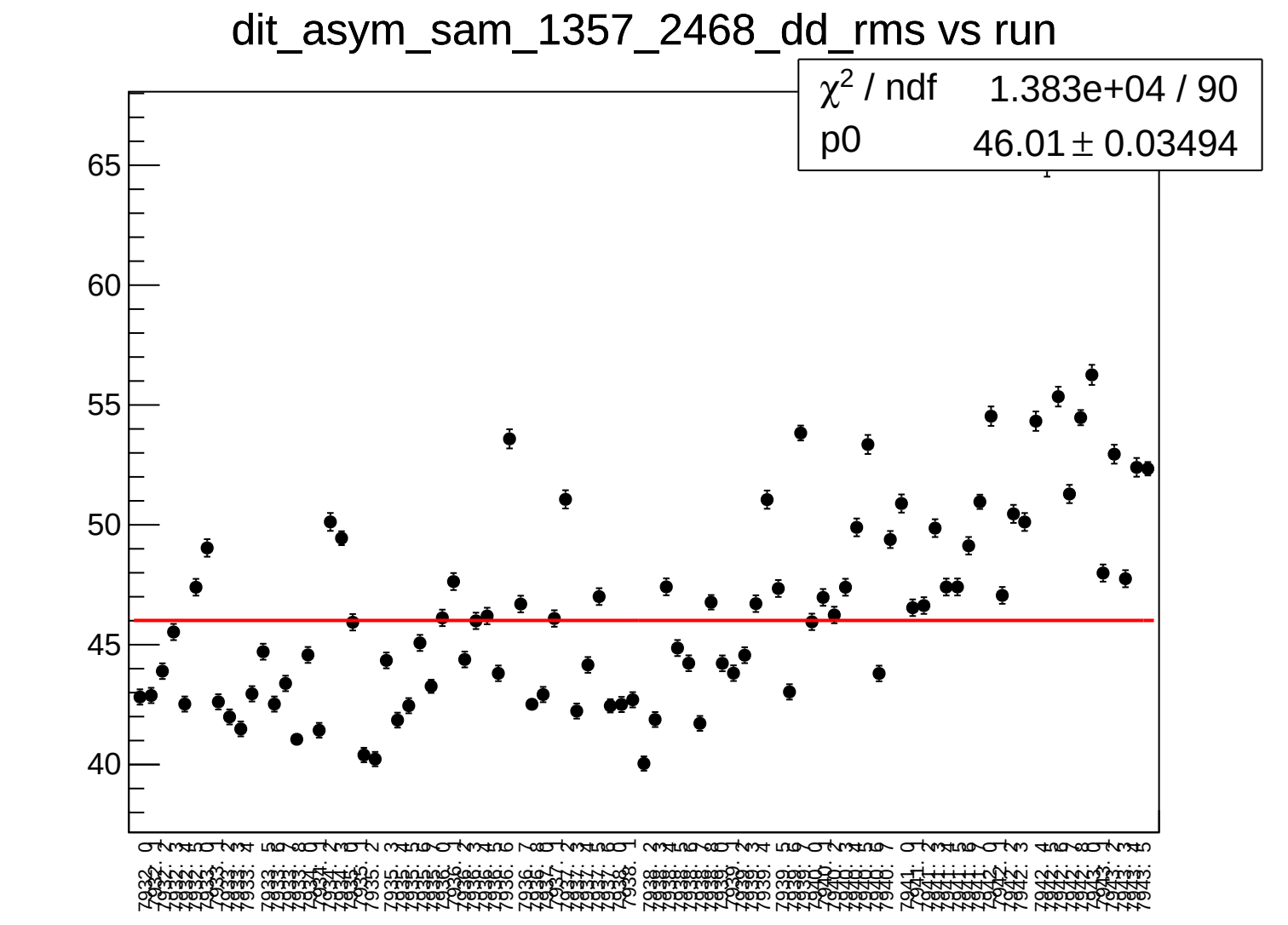

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7727 / 90
p0 40.29 ± 0.03054
55
50
45
40
35

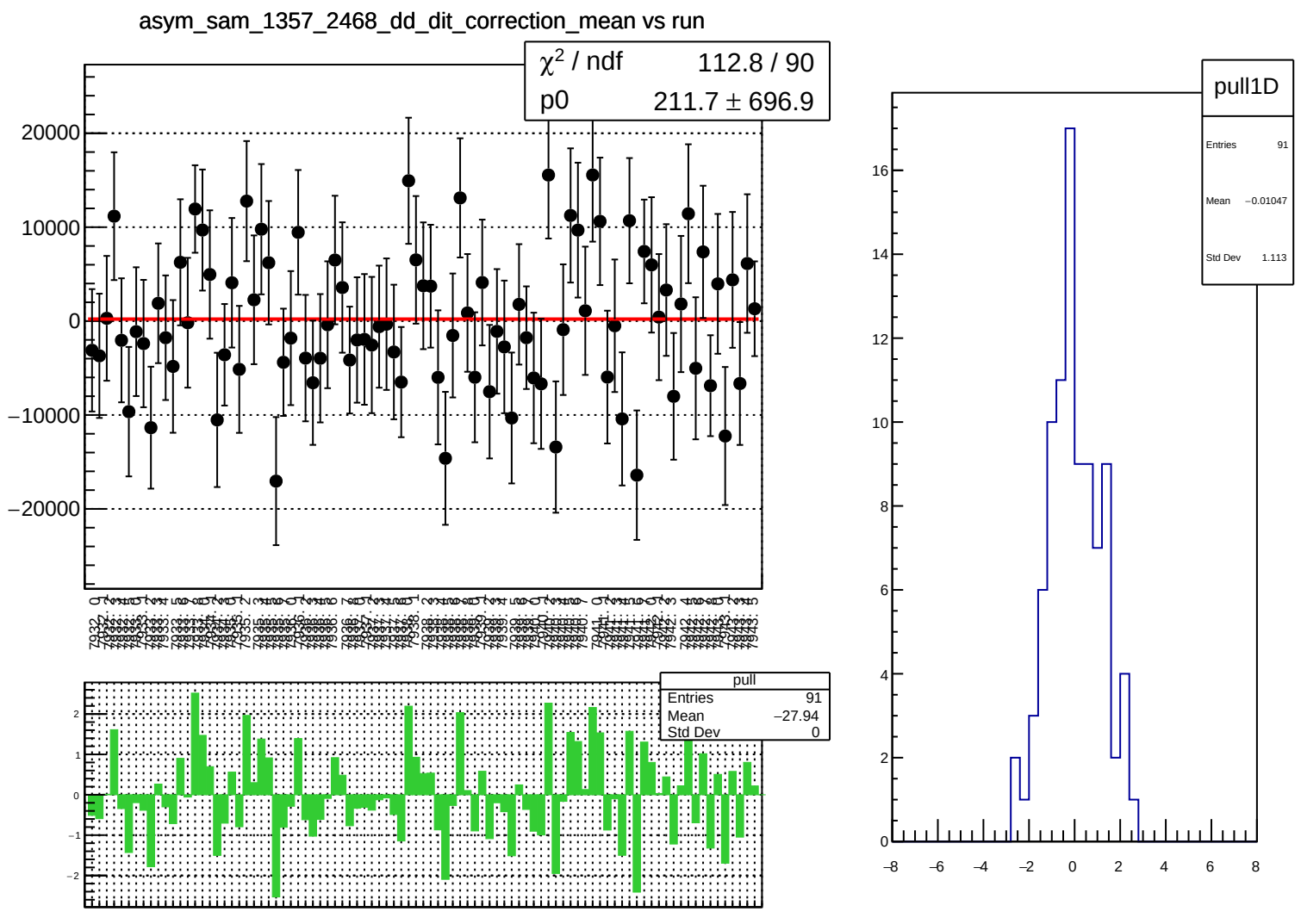

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.2 / 90
p0 210.6 ± 679
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −23.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0103
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

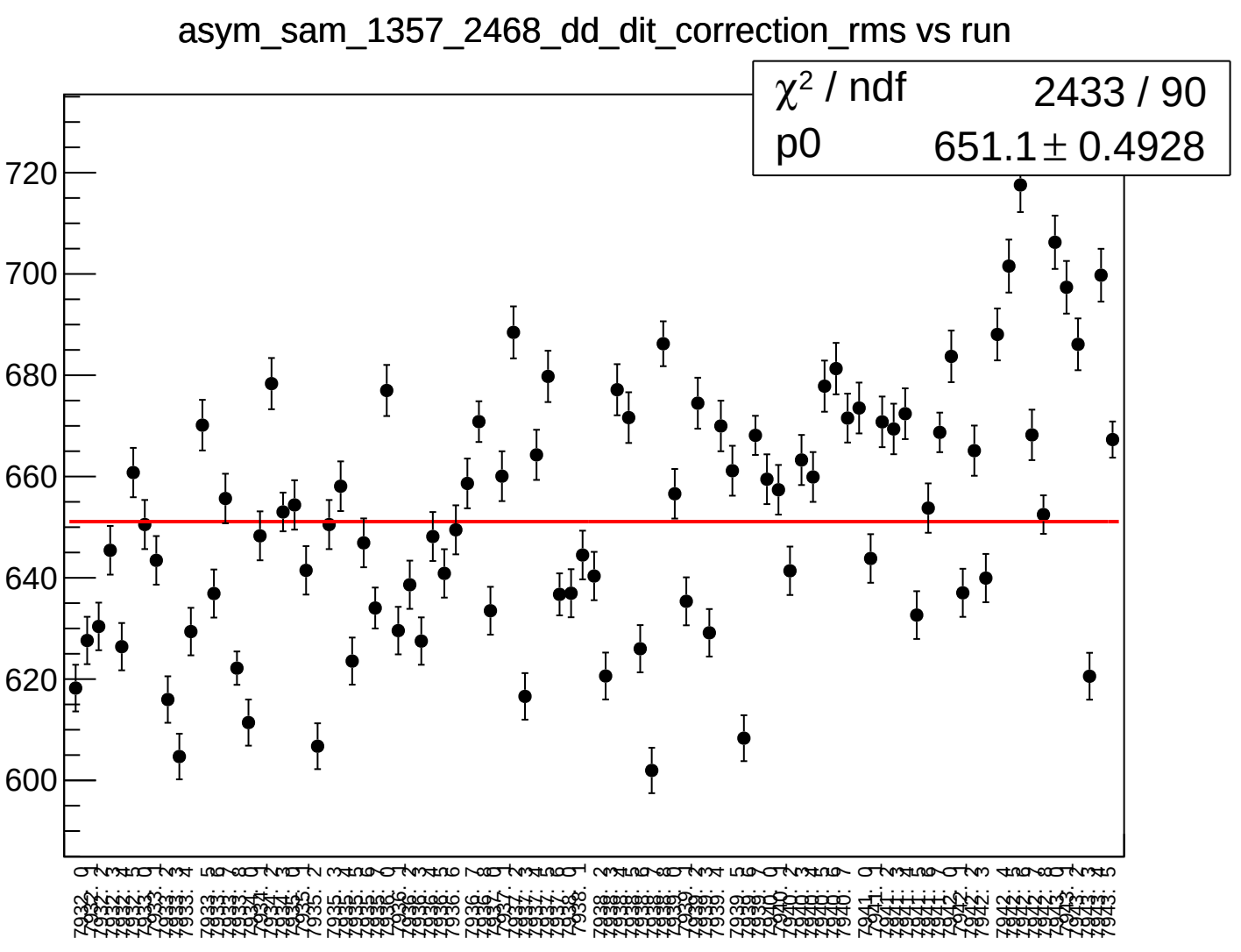

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2099 / 90
p0 634.4 ± 0.4801
680
660
640
620
600
580

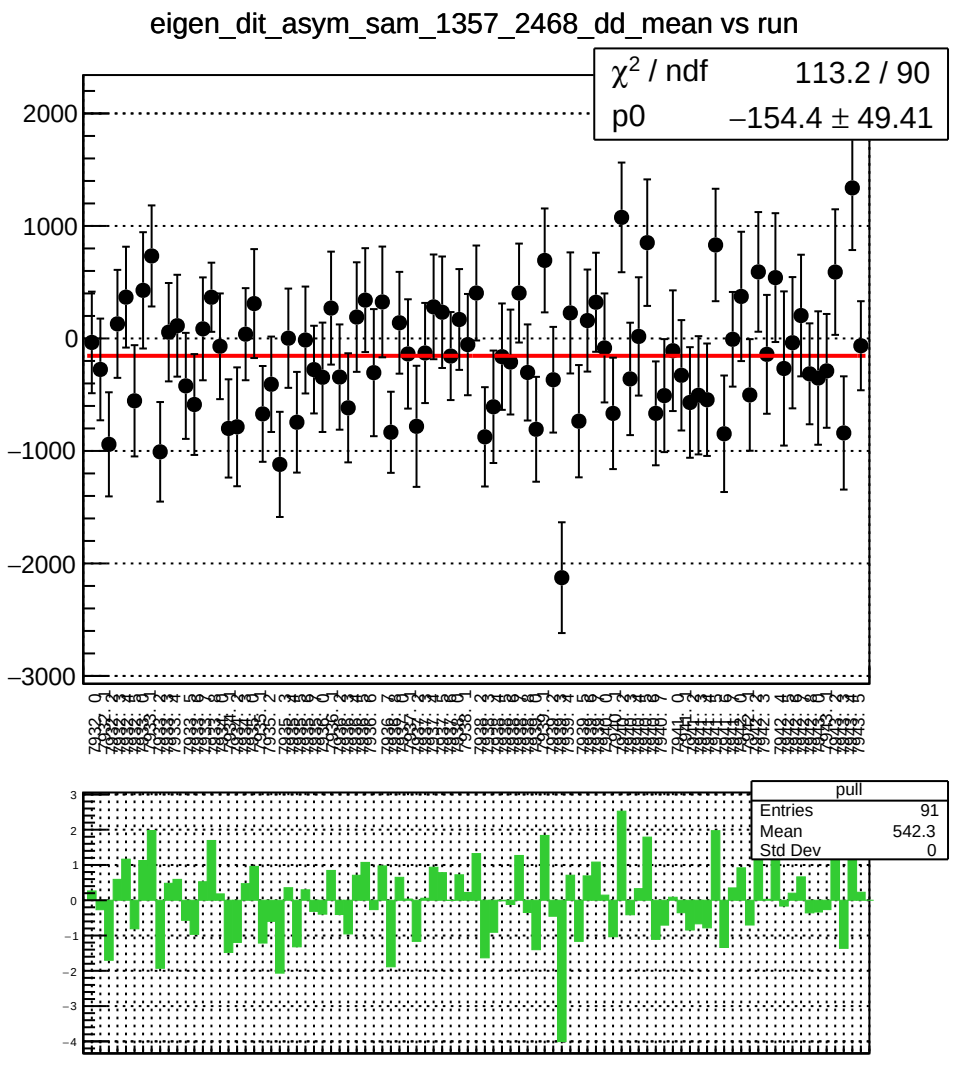

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 113.2 / 90
p0 −154.4 ± 49.41
pull
Entries 91
Mean 542.3
Std Dev 0

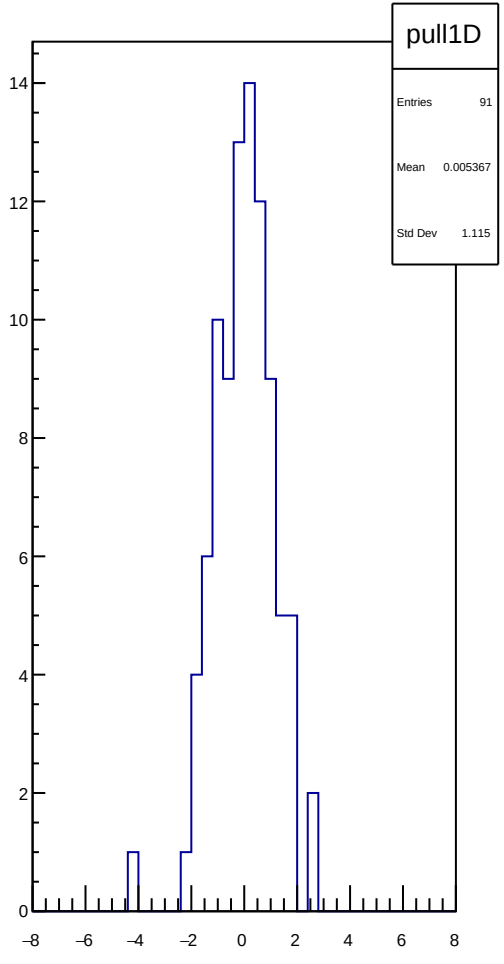

pull1D
Entries 91
Mean 0.005367
Std Dev 1.115

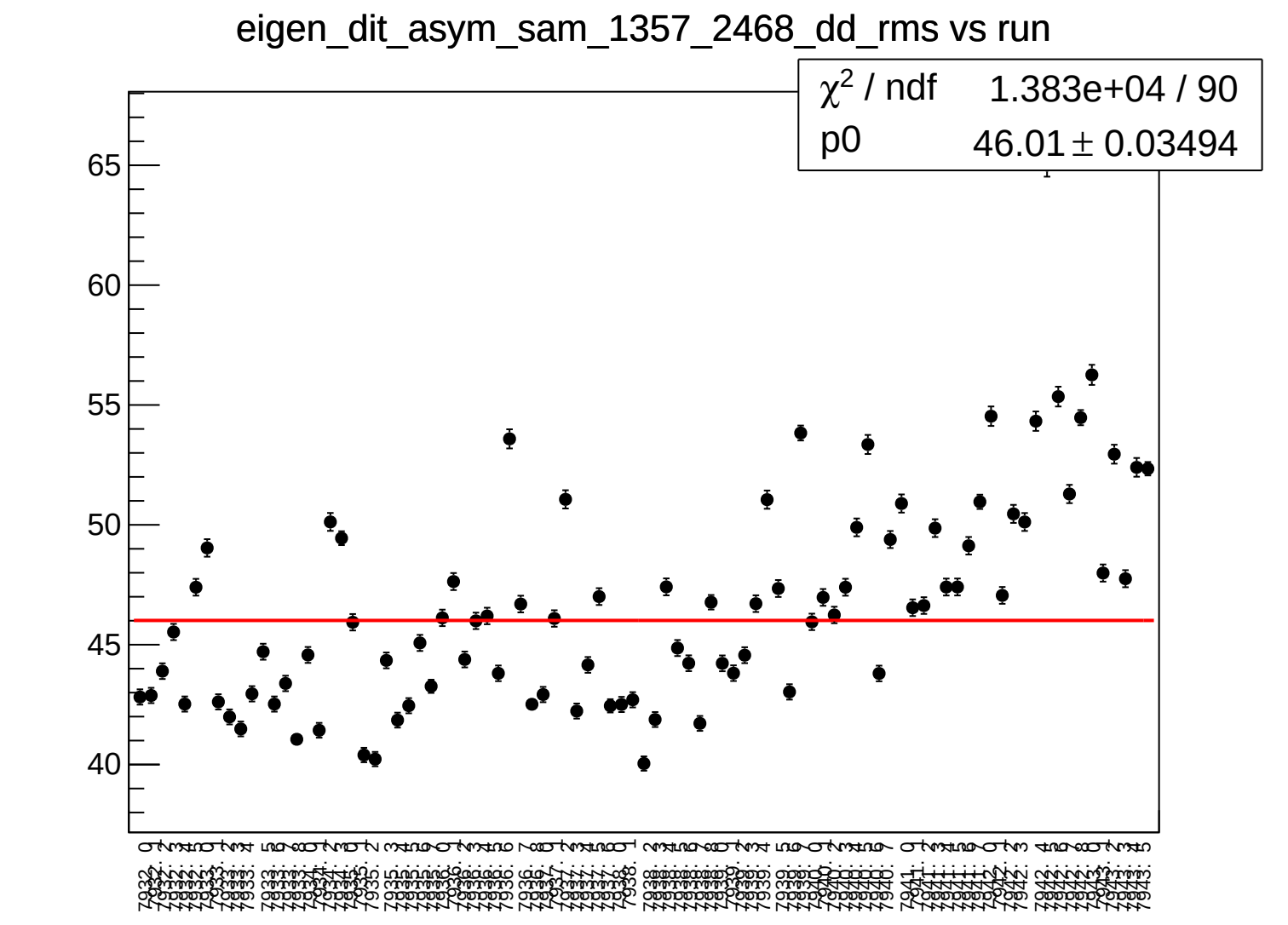

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.383e+04 / 90
p0 46.01 ± 0.03494
65
60
55
50
45
40

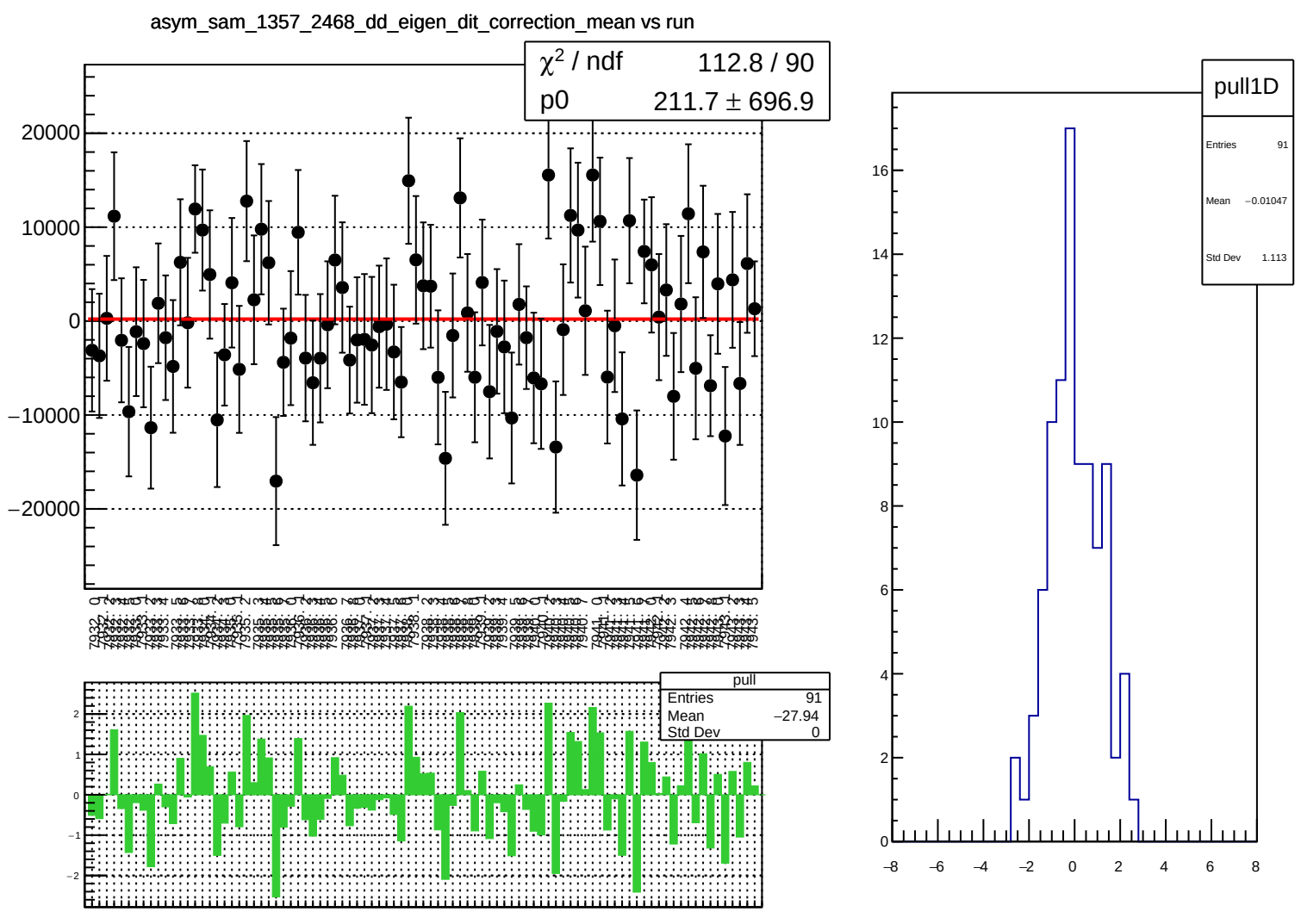

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 112.8 / 90
p0 211.7 ± 696.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −27.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01047
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

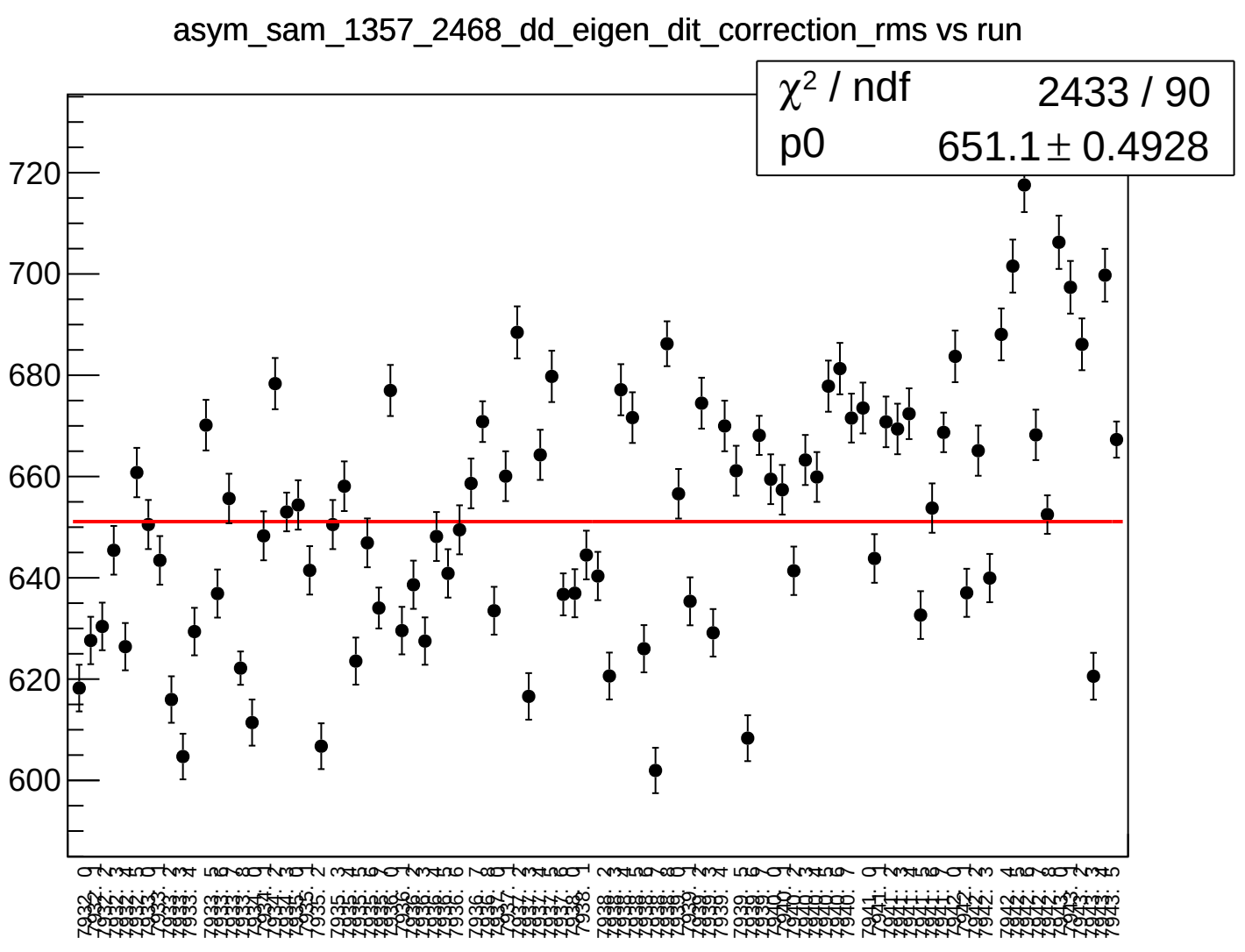

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2433 / 90
p0 651.1 ± 0.4928
720
700
680
660
640
620
600

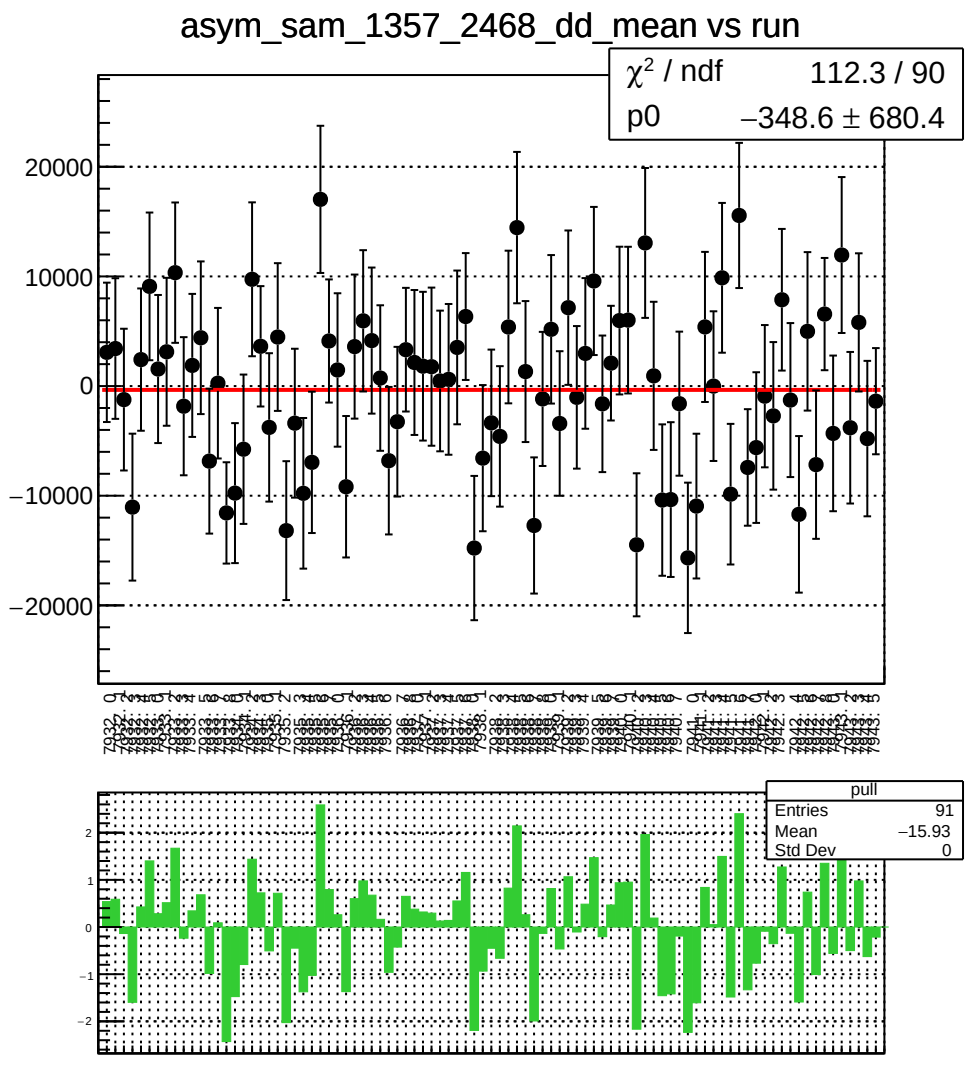

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 113.2 / 90
p0 −154.4 ± 49.41
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 542.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4

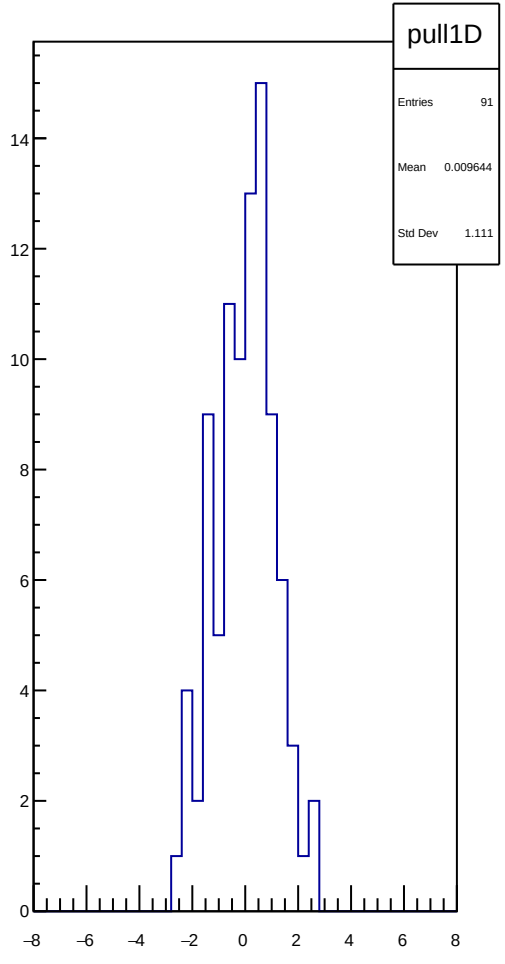

pull1D
Entries 91
Mean 0.005367
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

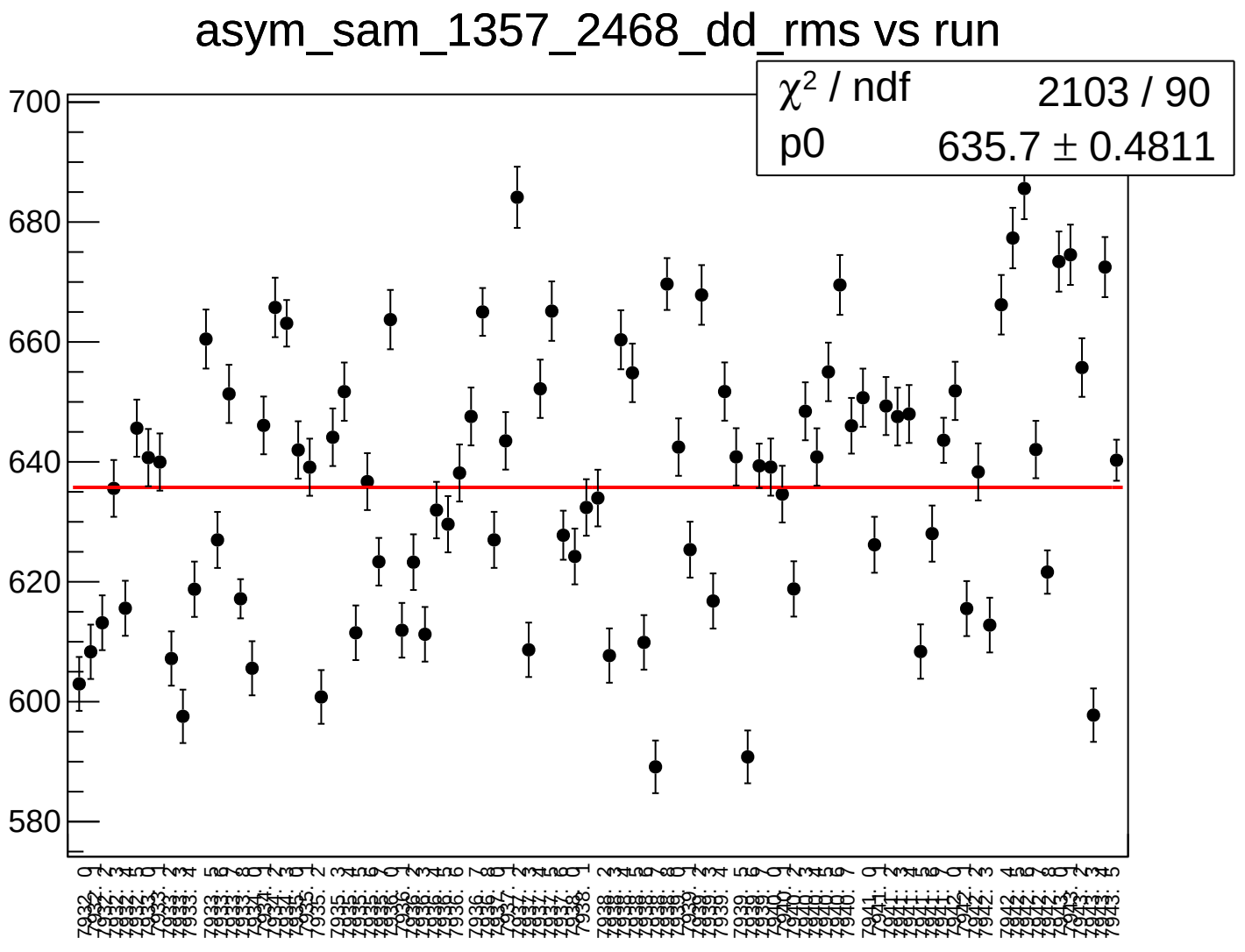

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.383e+04 / 90
p0 46.01 ± 0.03494
65
60
55
50
45
40

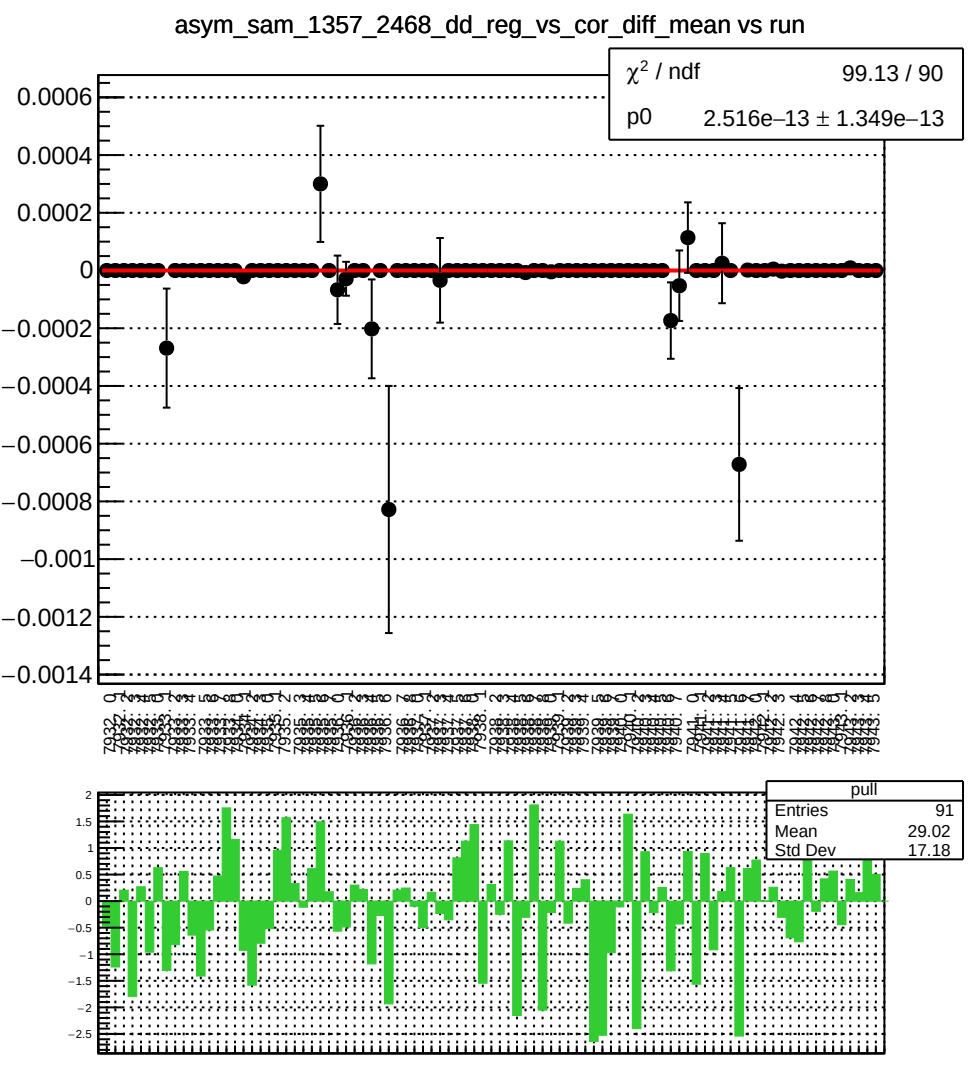

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.8 / 90
p0 211.7 ± 696.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −27.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01047
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

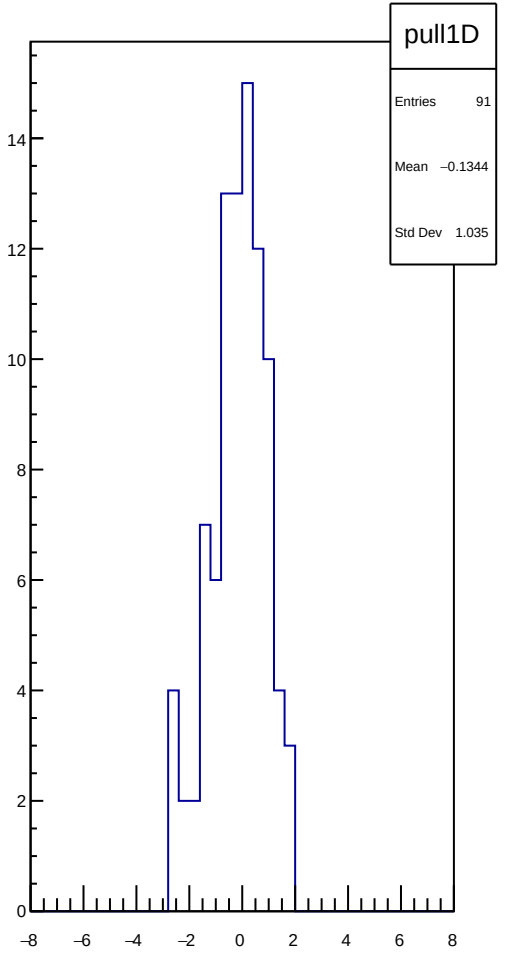

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2433 / 90
p0 651.1 ± 0.4928
720
700
680
660
640
620
600

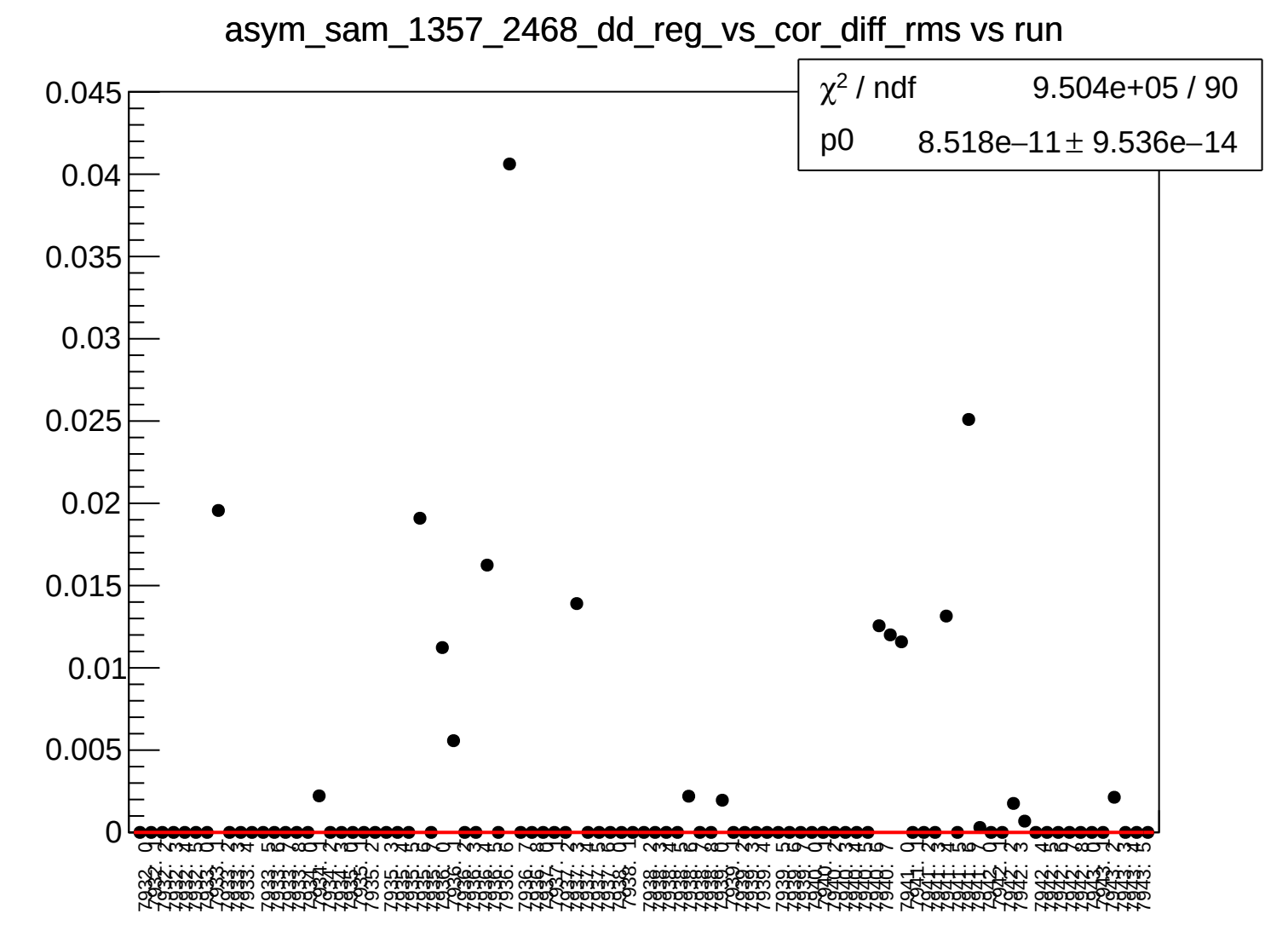

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 112.3 / 90
p0 −348.6 ± 680.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −15.93
Std Dev 0
2
1
0
−1
−2

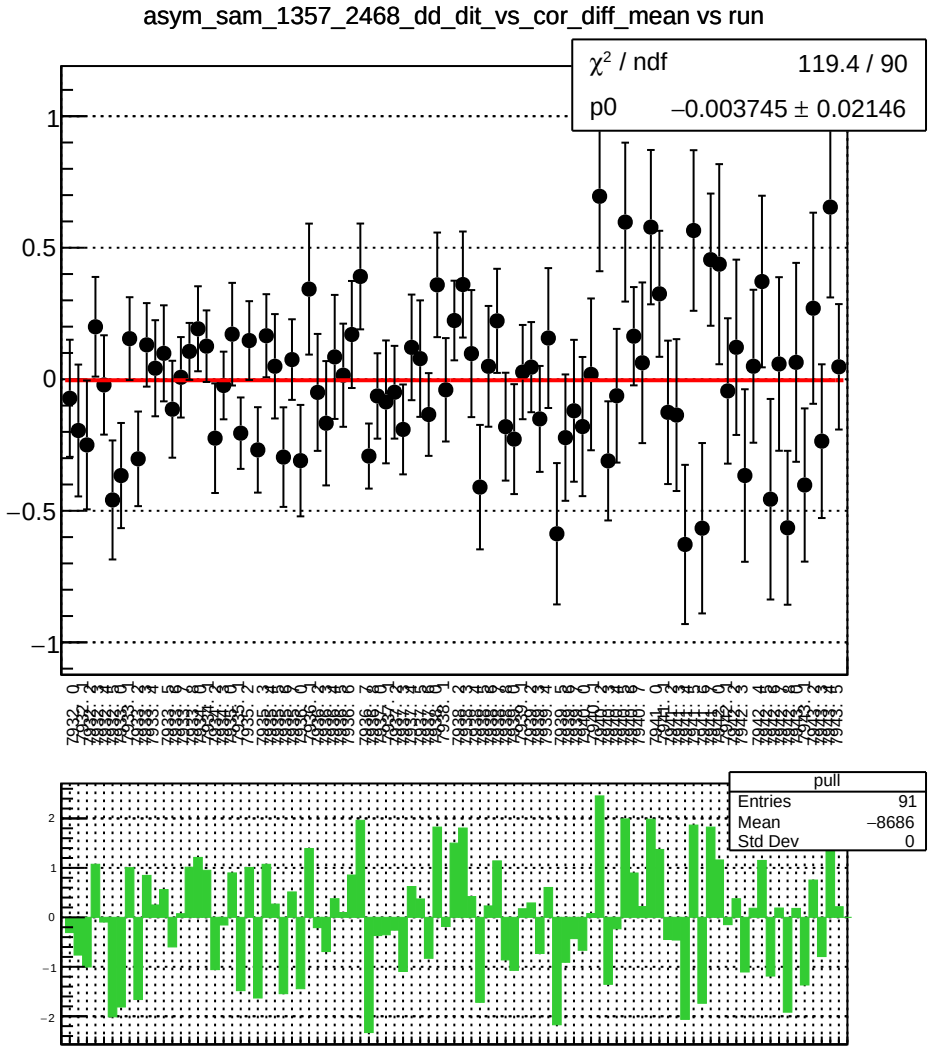

pull1D
Entries 91
Mean 0.009644
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

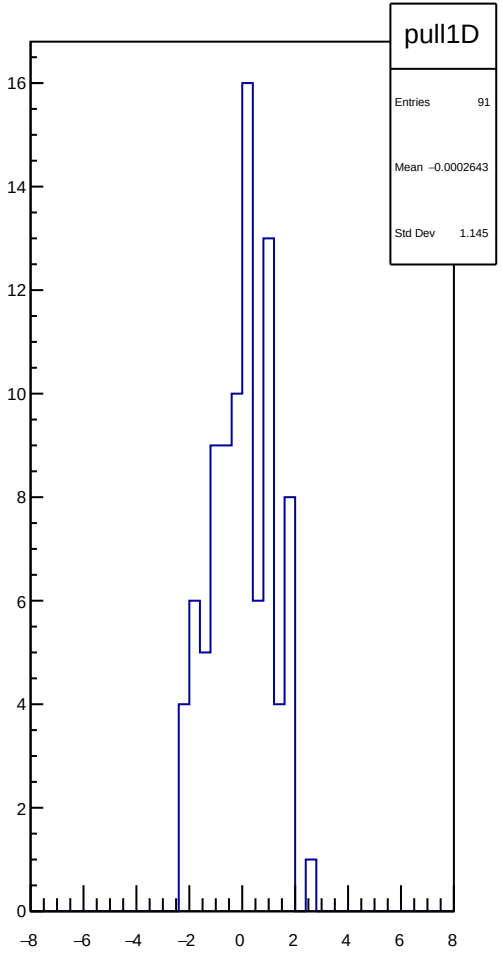

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2103 / 90
p0 635.7 ± 0.4811
700
680
660
640
620
600
580

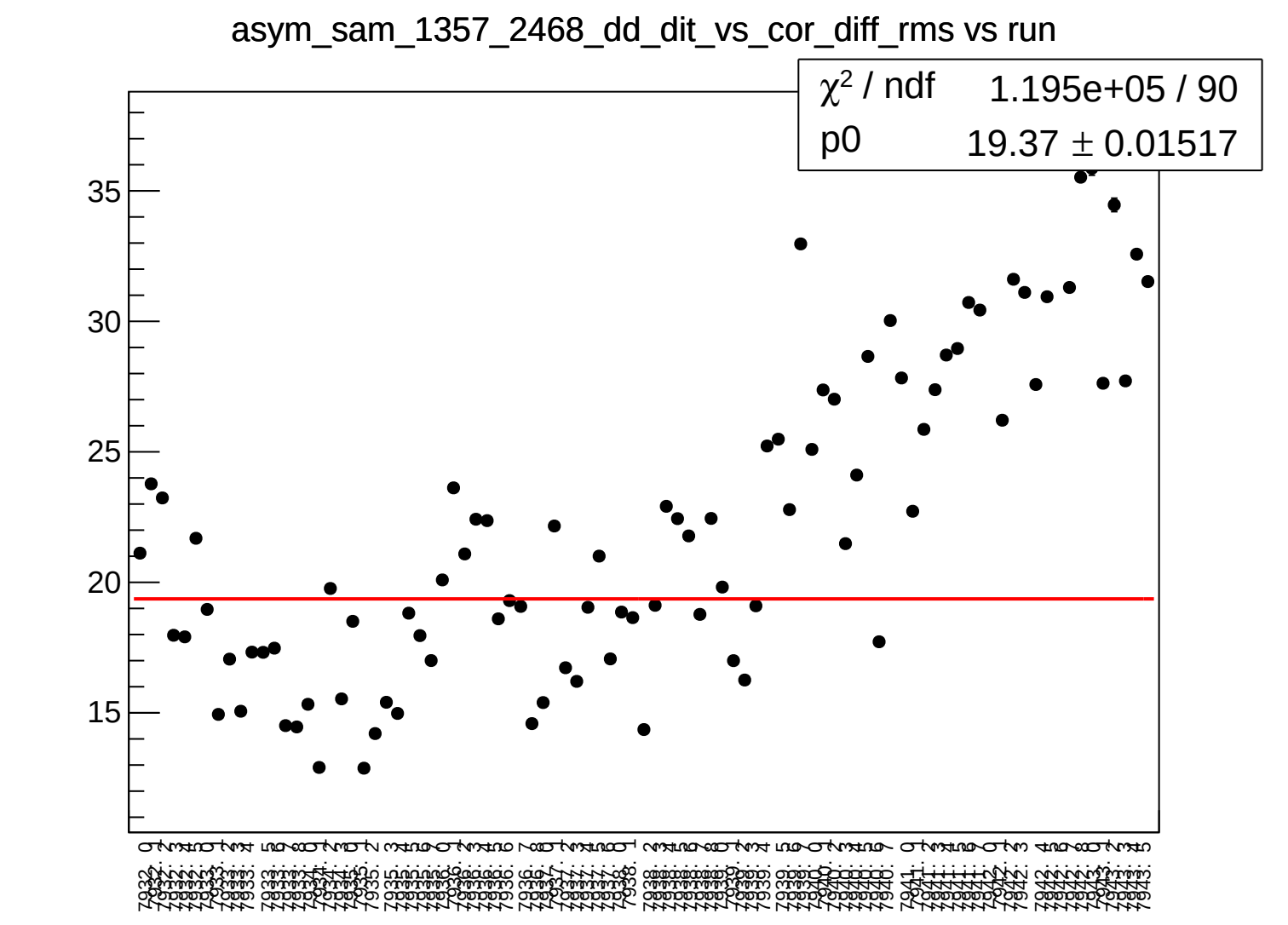

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.13 / 90
p0 2.516e−13 ± 1.349e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 91
Mean 29.02
Std Dev 17.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

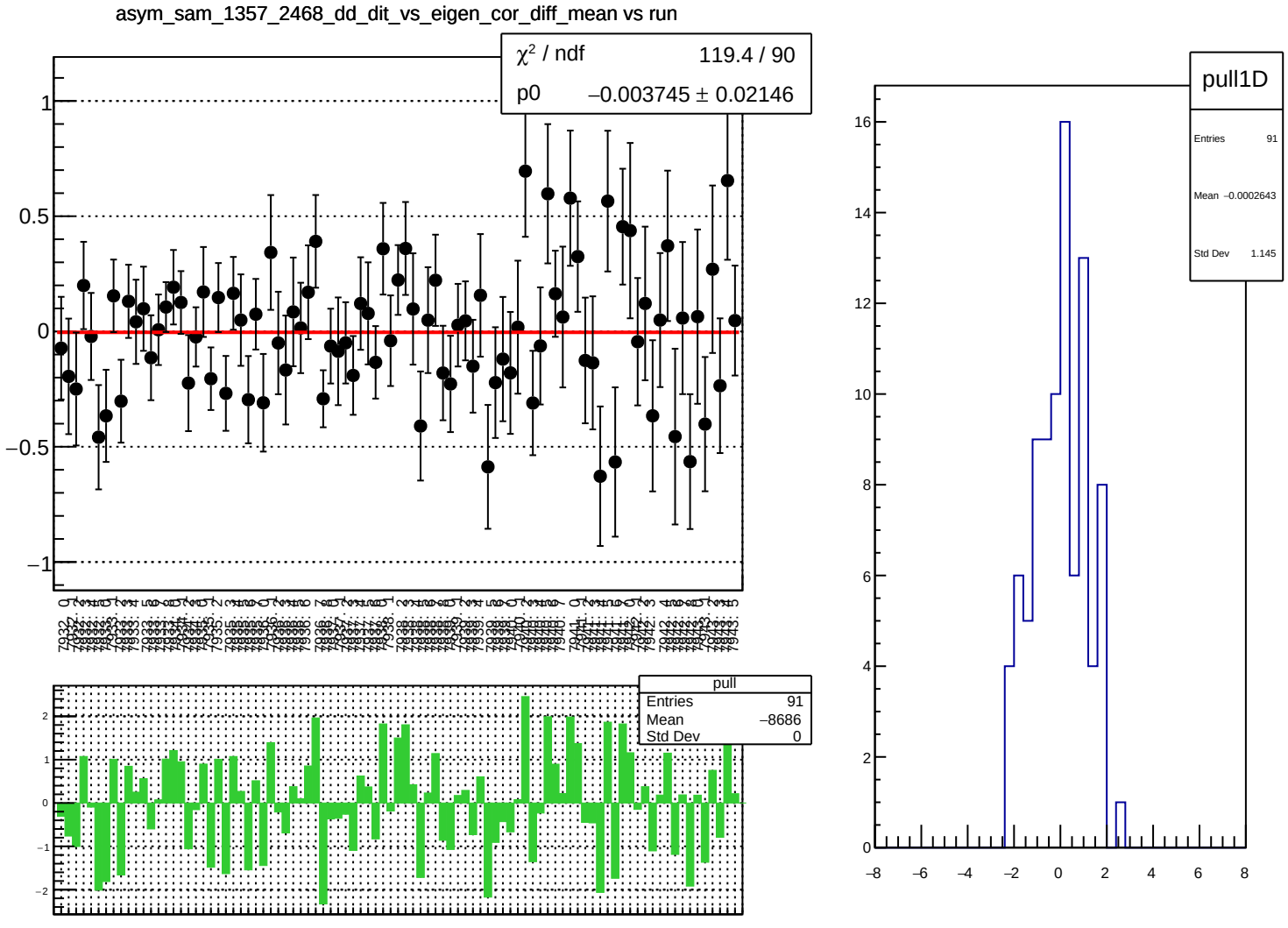

pull1D
Entries 91
Mean −0.1344
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

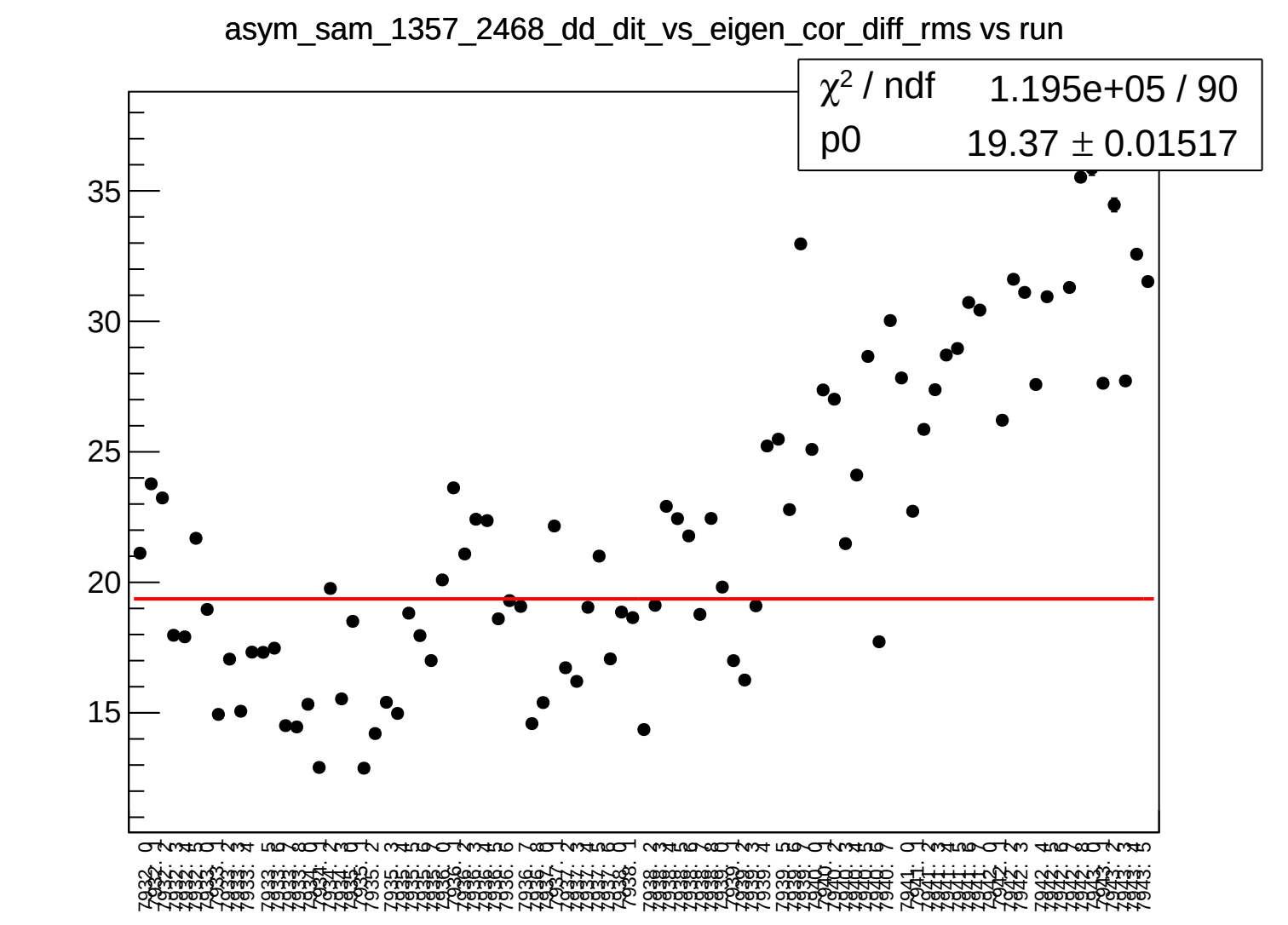

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.504e+05 / 90
p0 8.518e−11 ± 9.536e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

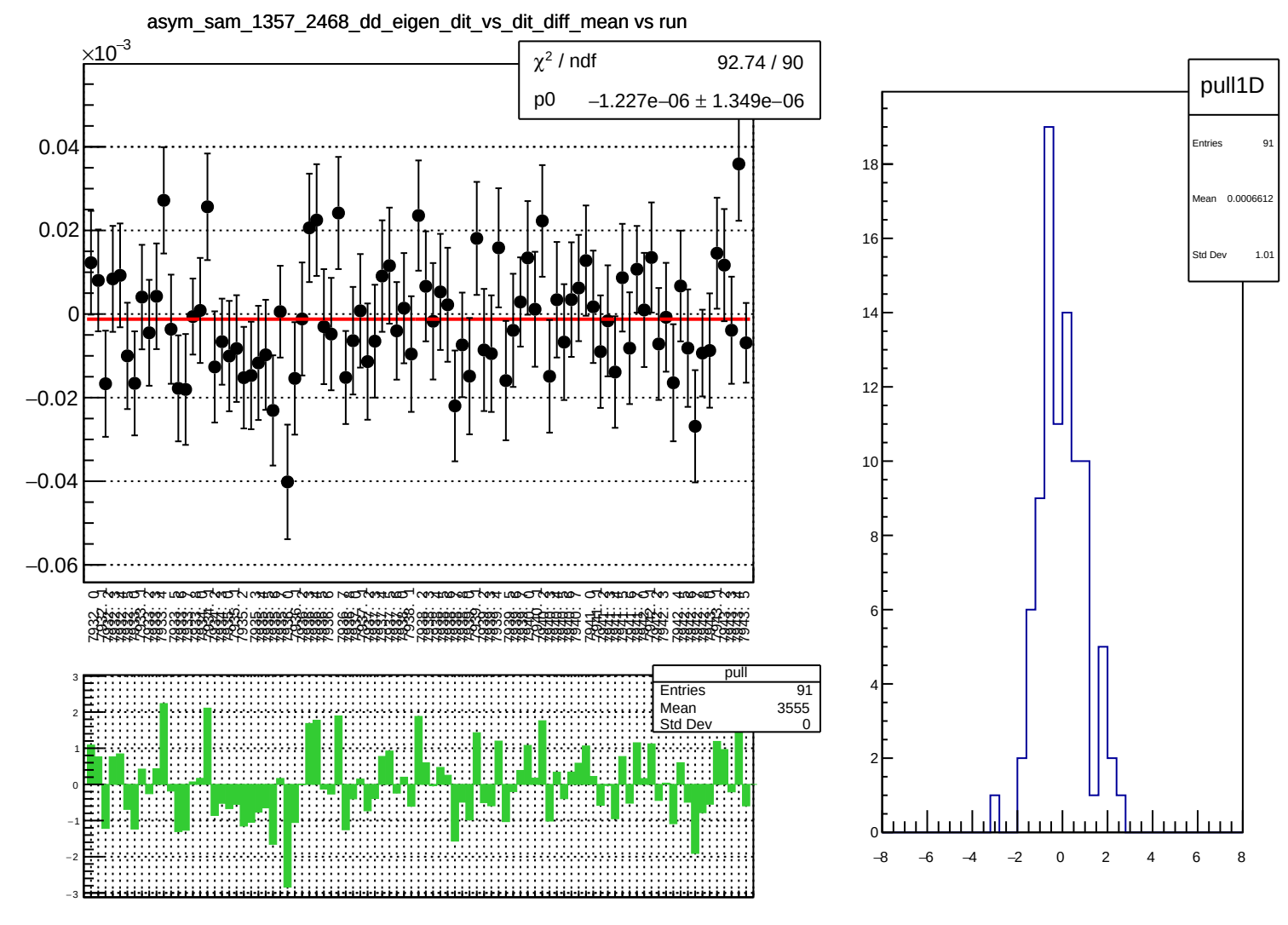

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 −0.003745 ± 0.02146
pull
Entries 91
Mean −8686
Std Dev 0

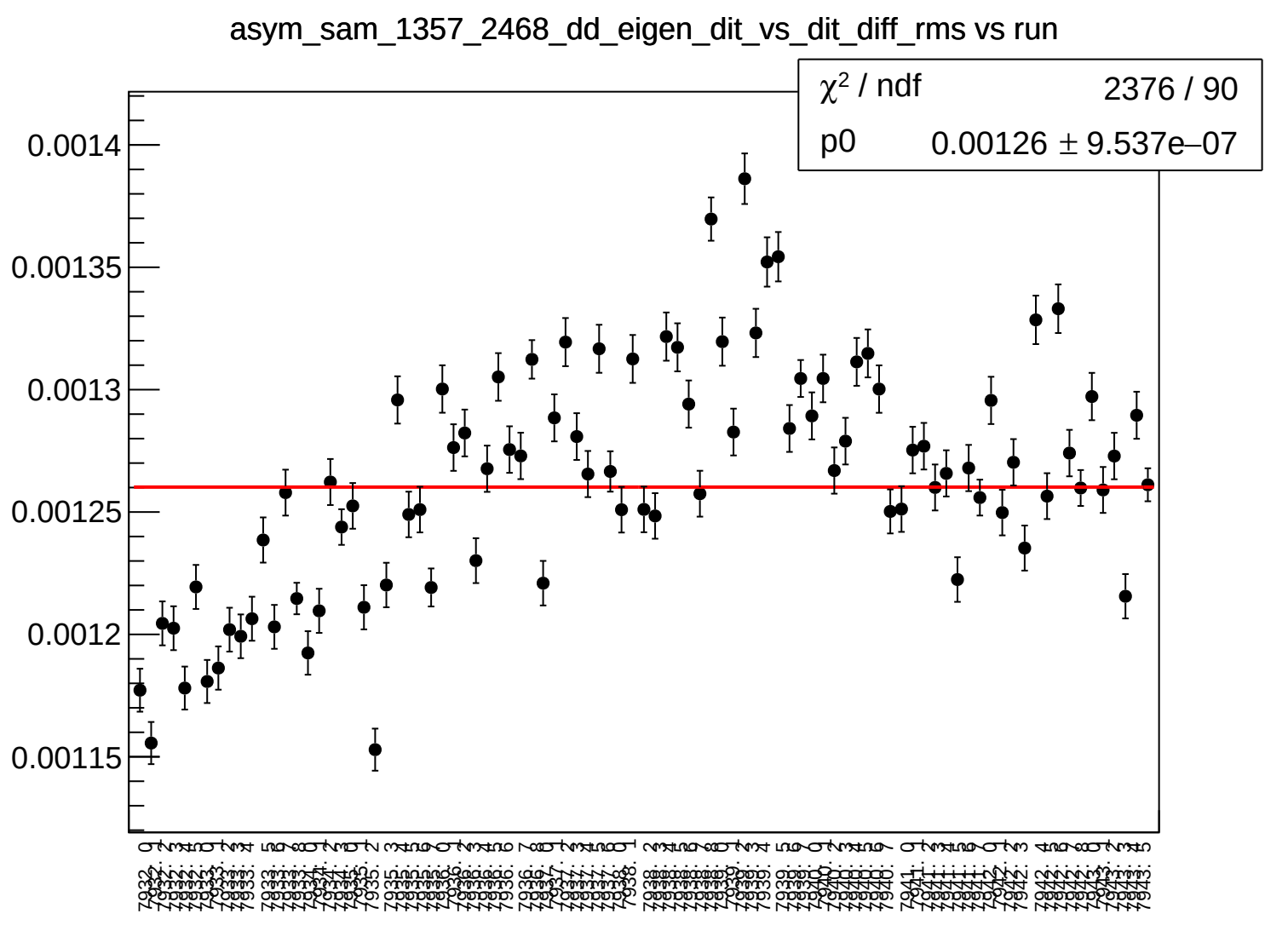

pull1D
Entries 91
Mean −0.0002643
Std Dev 1.145

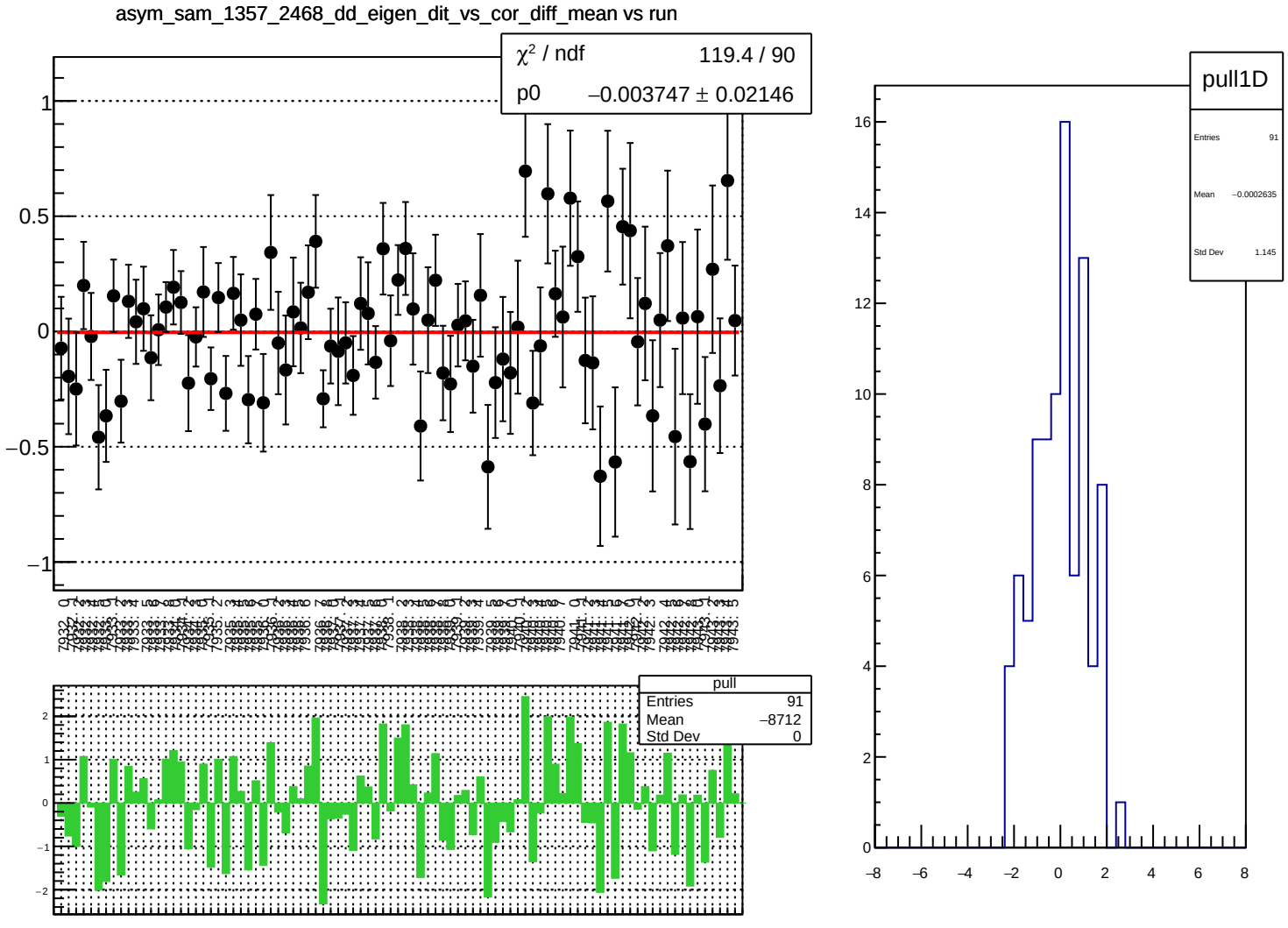

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 90
p0 19.37 ± 0.01517
35
30
25
20
15

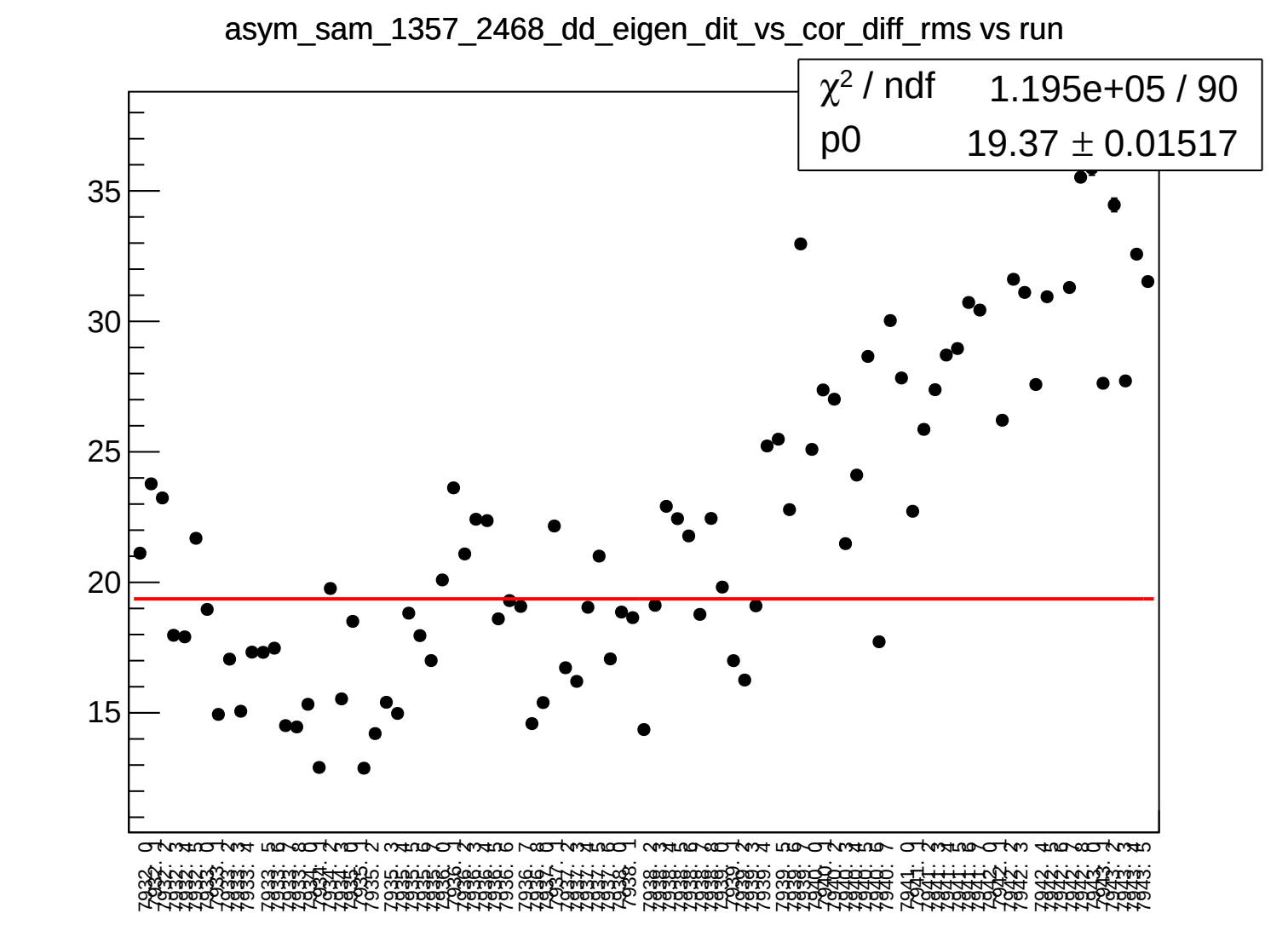

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 −0.003745 ± 0.02146
pull
Entries 91
Mean −8686
Std Dev 0
pull1D
Entries 91
Mean −0.0002643
Std Dev 1.145

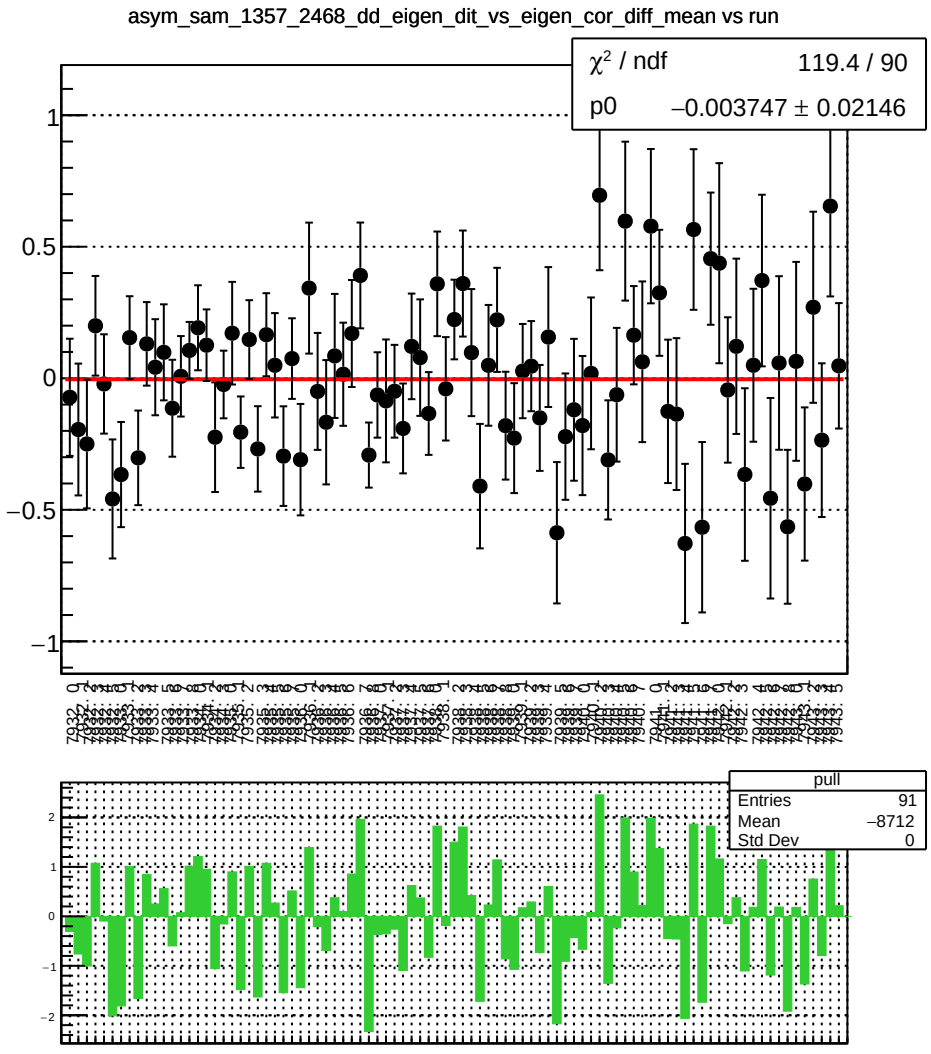

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 90
p0 19.37 ± 0.01517
35
30
25
20
15

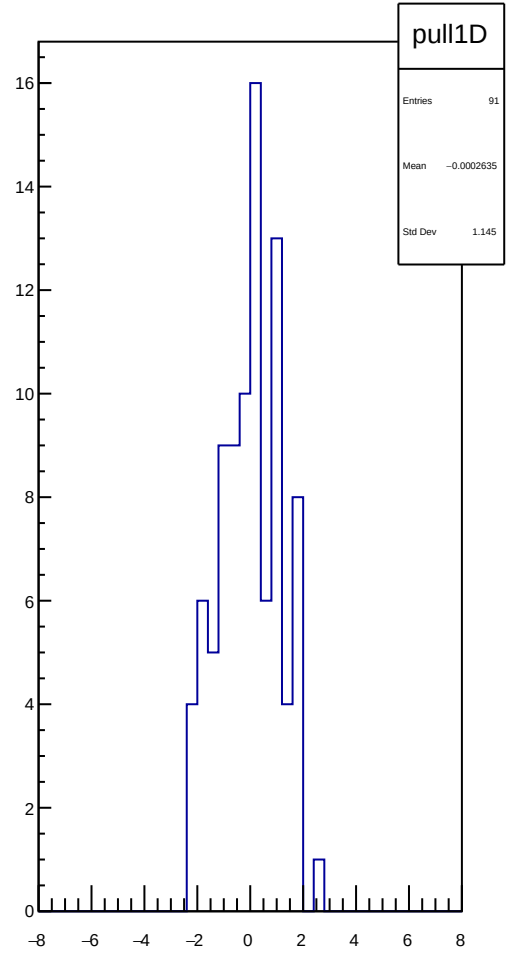

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.74 / 90
p0 −1.227e−06 ± 1.349e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 3555
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.0006612
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

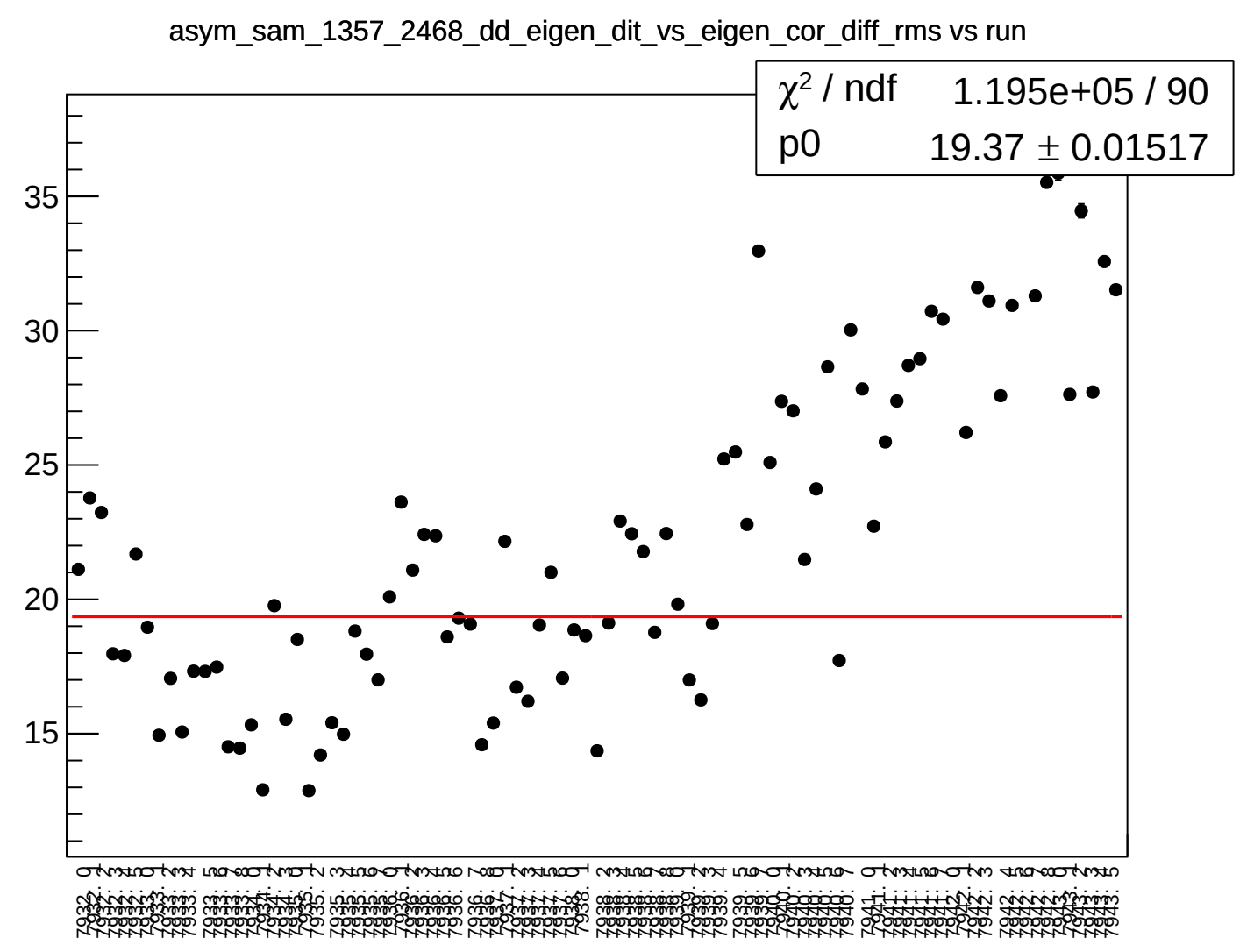

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2376 / 90
p0 0.00126 ± 9.537e−07
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

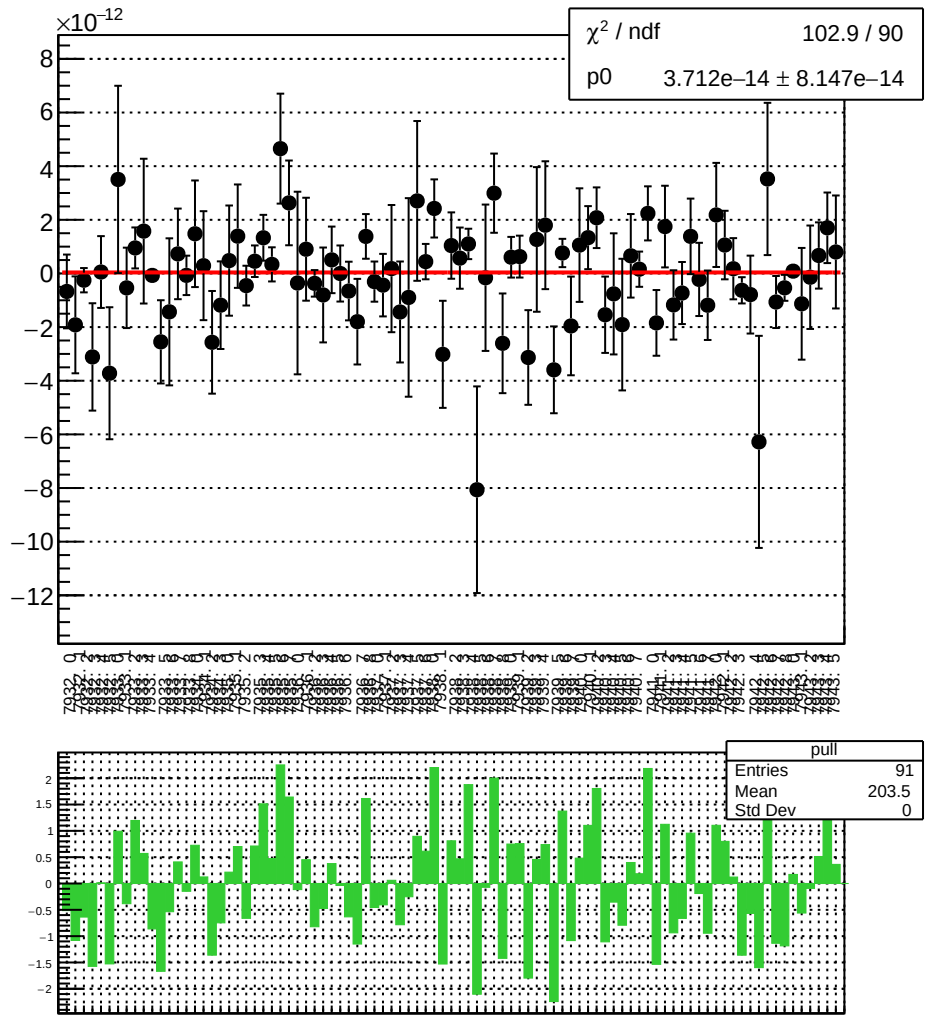

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 −0.003747 ± 0.02146
pull
Entries 91
Mean −8712
Std Dev 0
pull1D
Entries 91
Mean −0.0002635
Std Dev 1.145

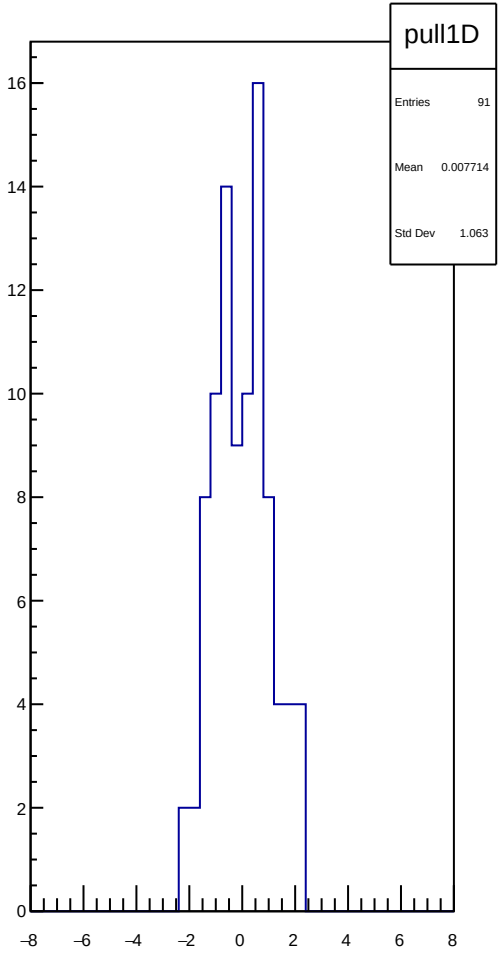

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 90
p0 19.37 ± 0.01517
35
30
25
20
15

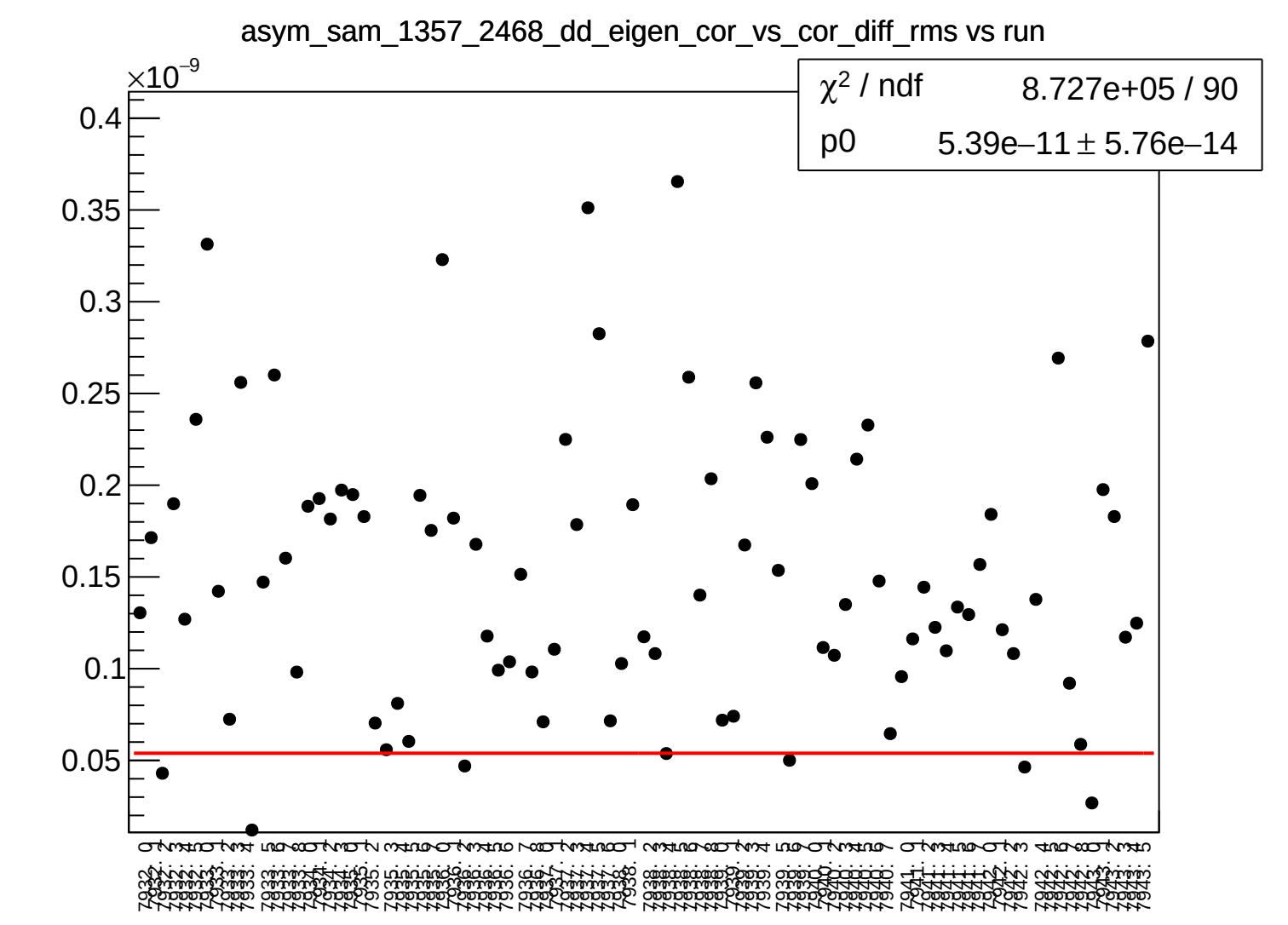

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.4 / 90
p0 −0.003747 ± 0.02146
pull
Entries 91
Mean −8712
Std Dev 0

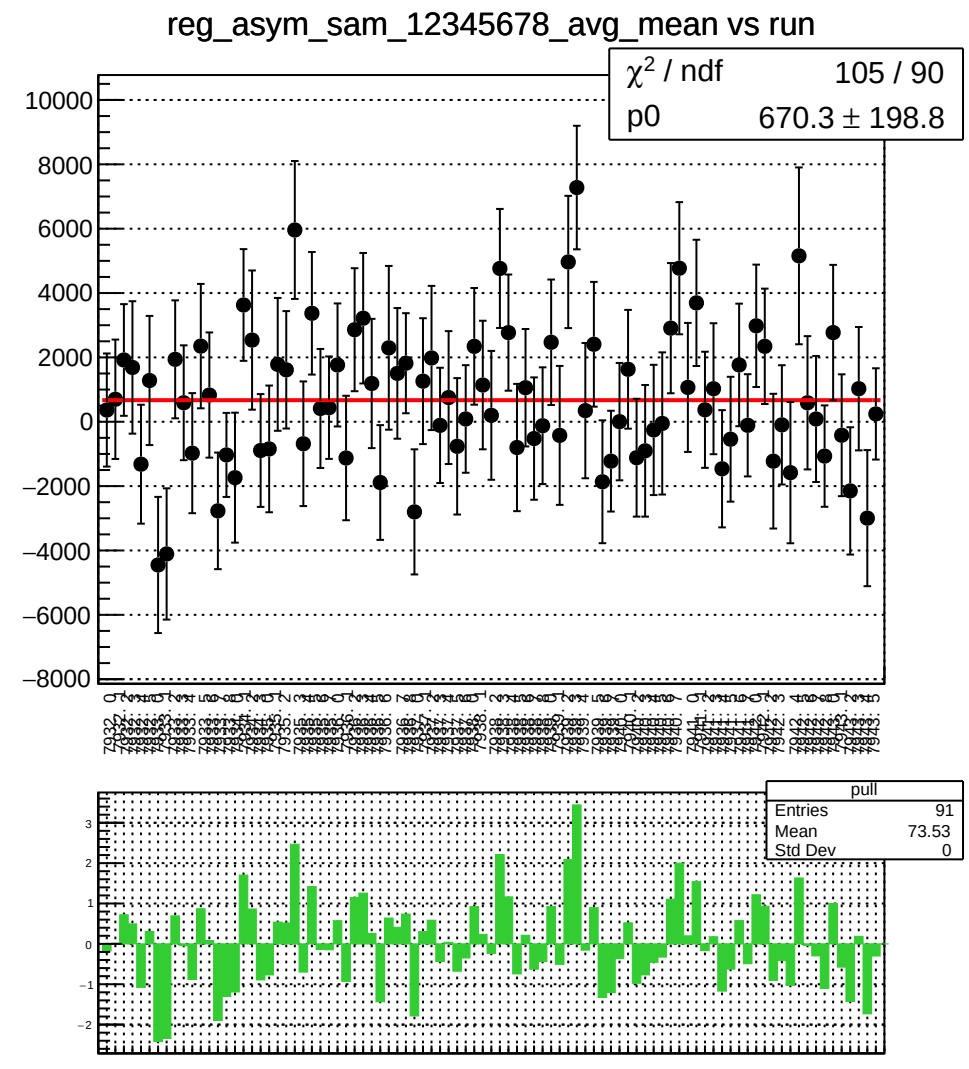

pull1D
Entries 91
Mean −0.0002635
Std Dev 1.145

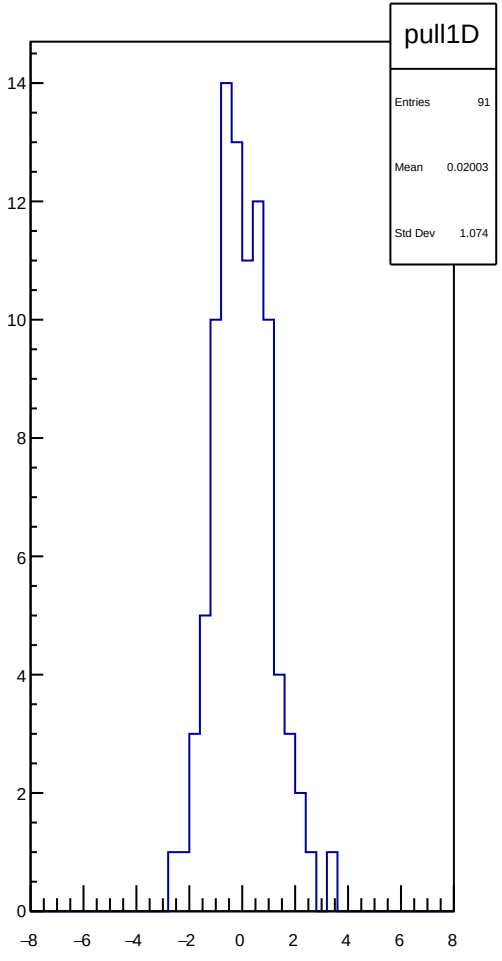

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.195e+05 / 90
p0 19.37 ± 0.01517
35
30
25
20
15

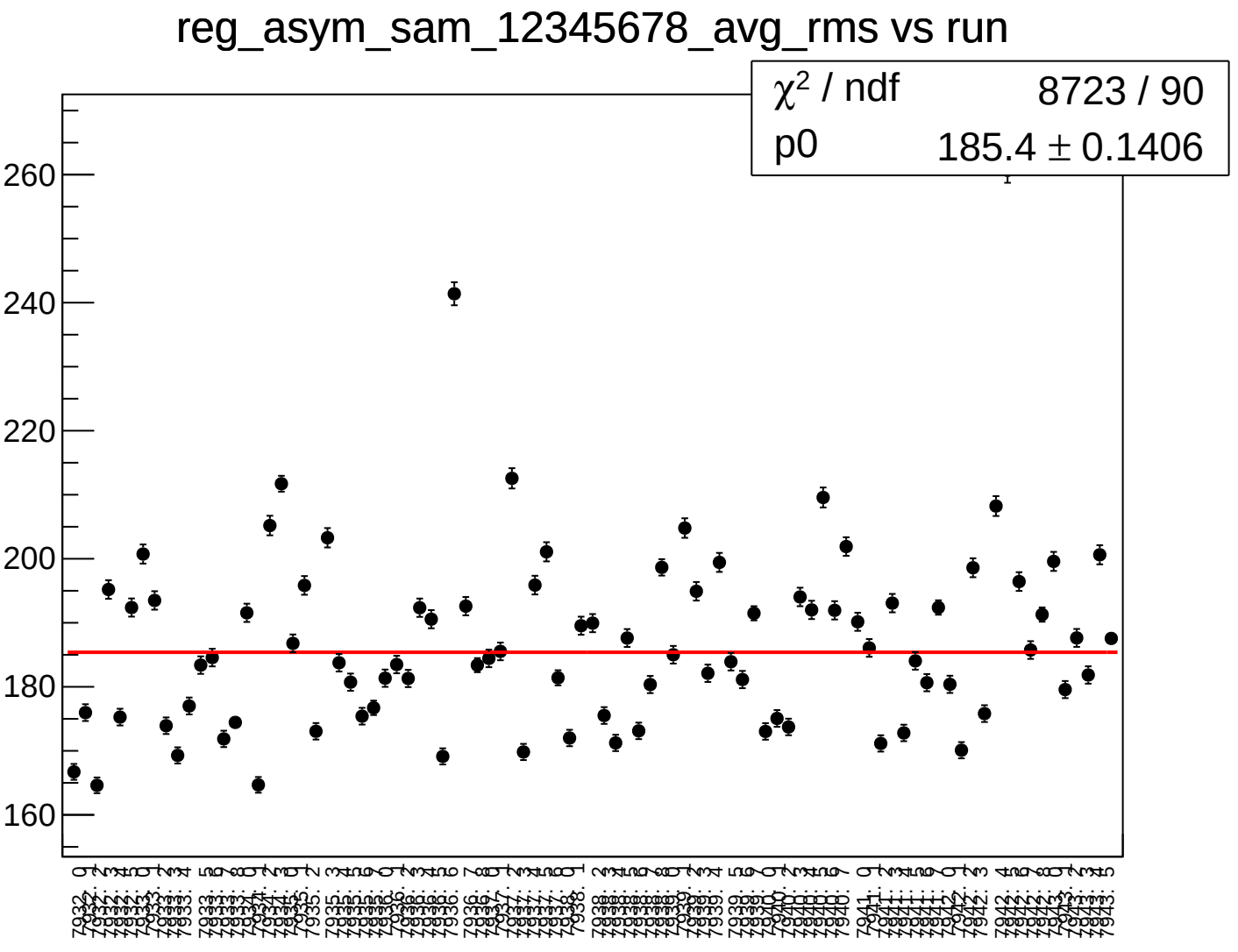

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.9 / 90
p0 3.712e−14 ± 8.147e−14
pull
Entries 91
Mean 203.5
Std Dev 0

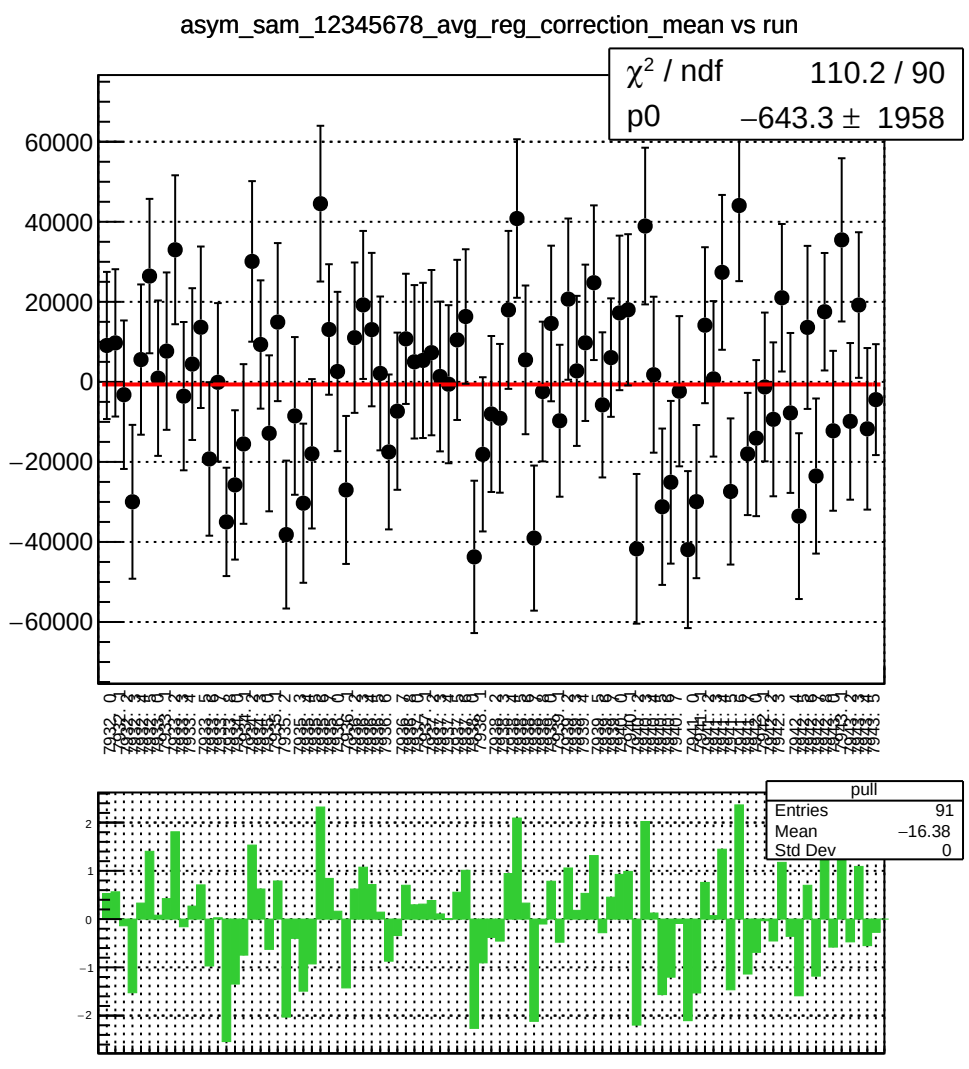

pull1D
Entries 91
Mean 0.007714
Std Dev 1.063

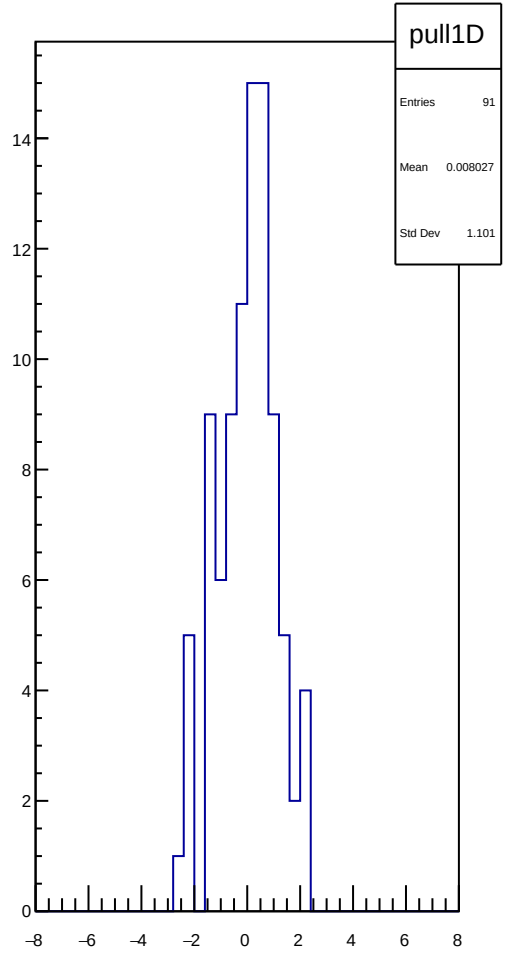

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.727e+05 / 90
p0 5.39e−11 ± 5.76e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

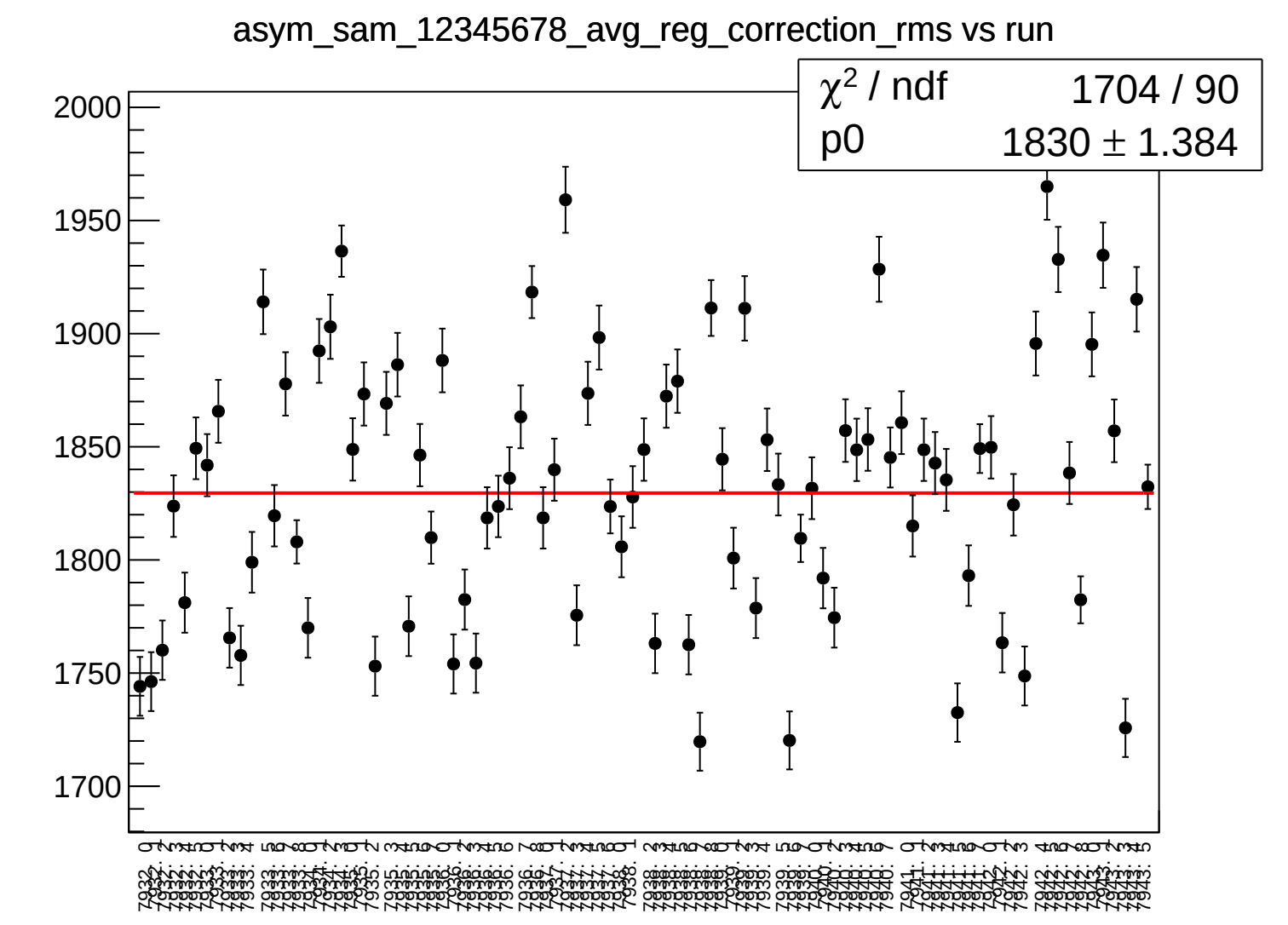

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 105 / 90
p0 670.3 ± 198.8
pull
Entries 91
Mean 73.53
Std Dev 0

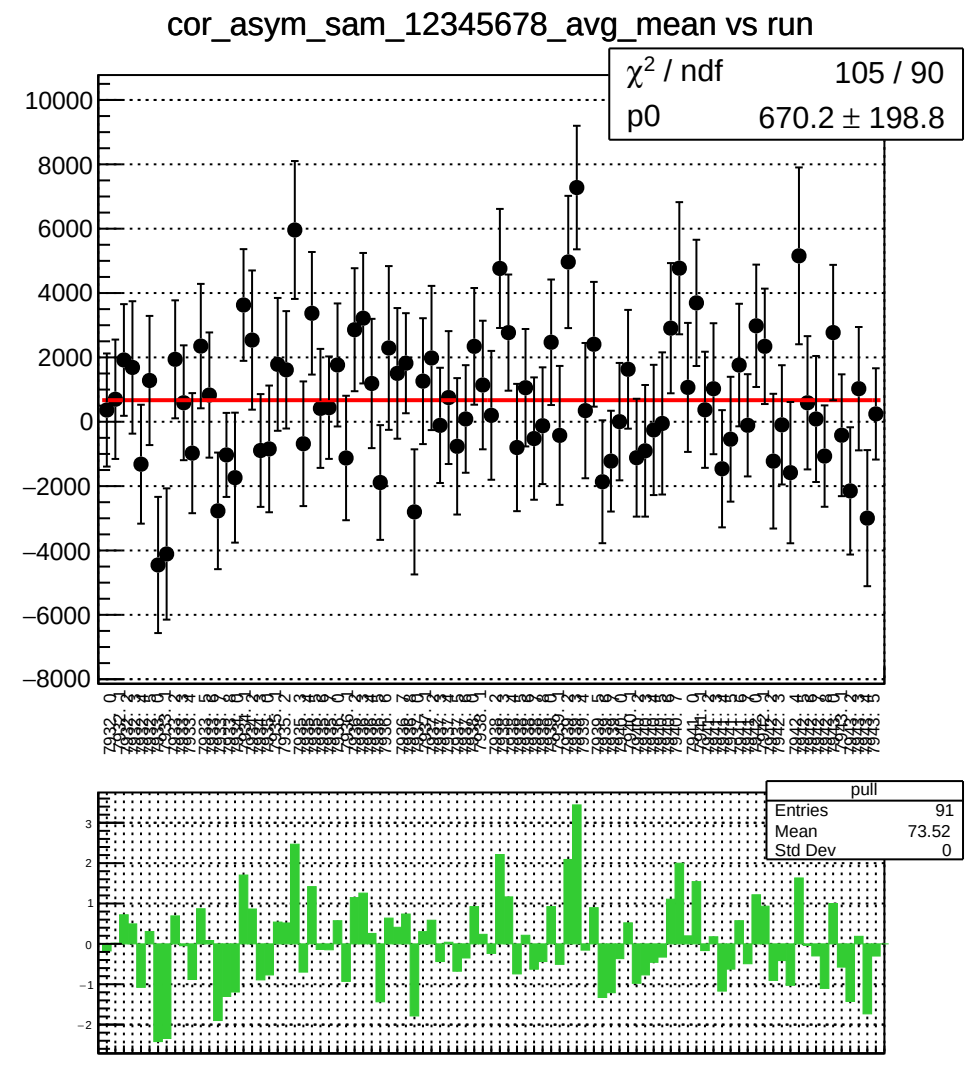

pull1D
Entries 91
Mean 0.02003
Std Dev 1.074

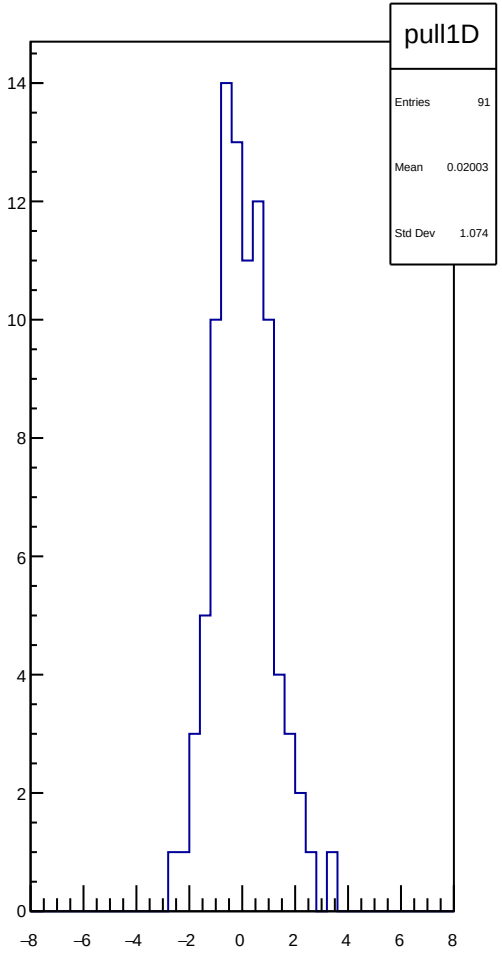

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 8723 / 90
p0 185.4 ± 0.1406
260
240
220
200
180
160

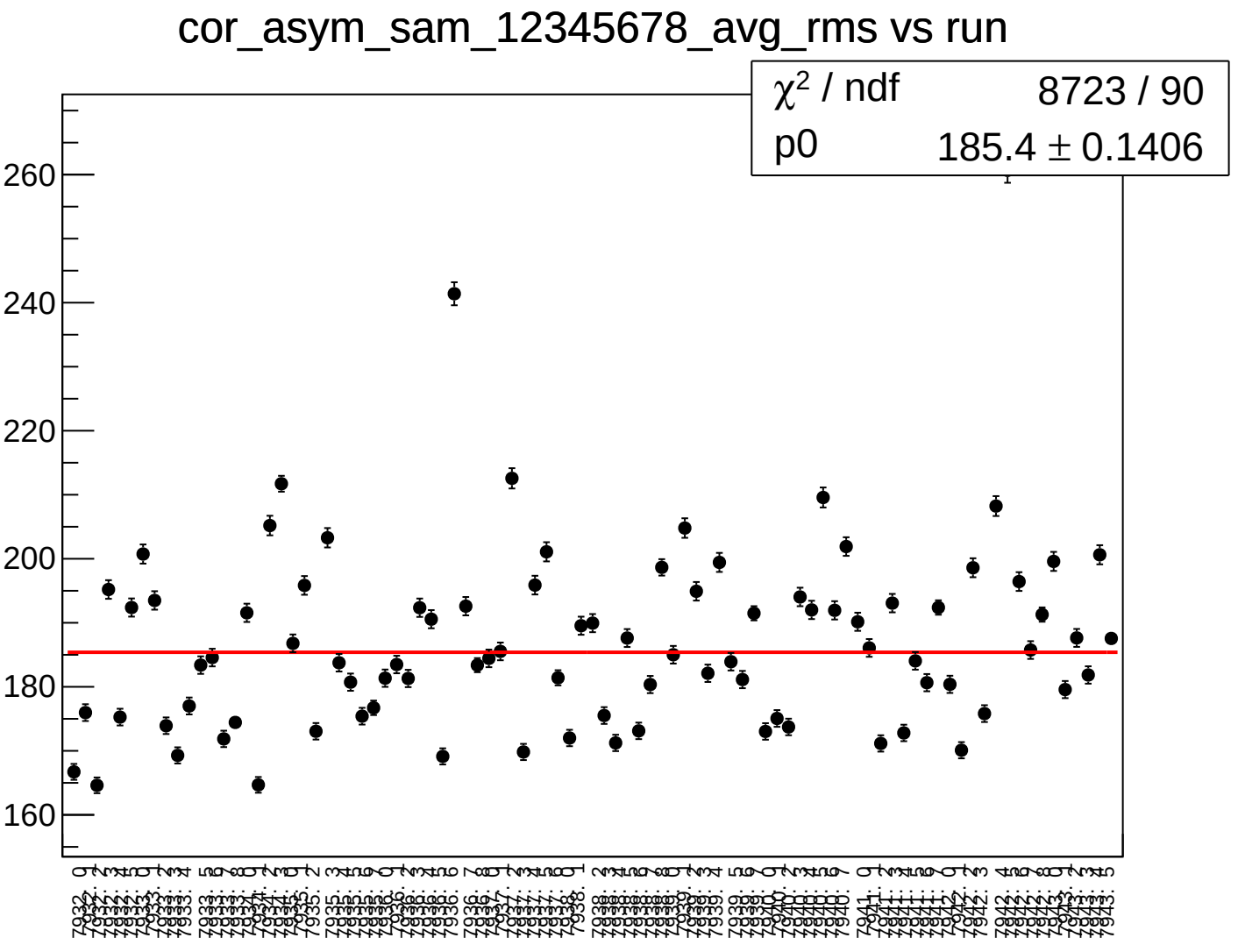

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 110.2 / 90
p0 −643.3 ± 1958
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −16.38
Std Dev 0
2
1
0
−1
−2

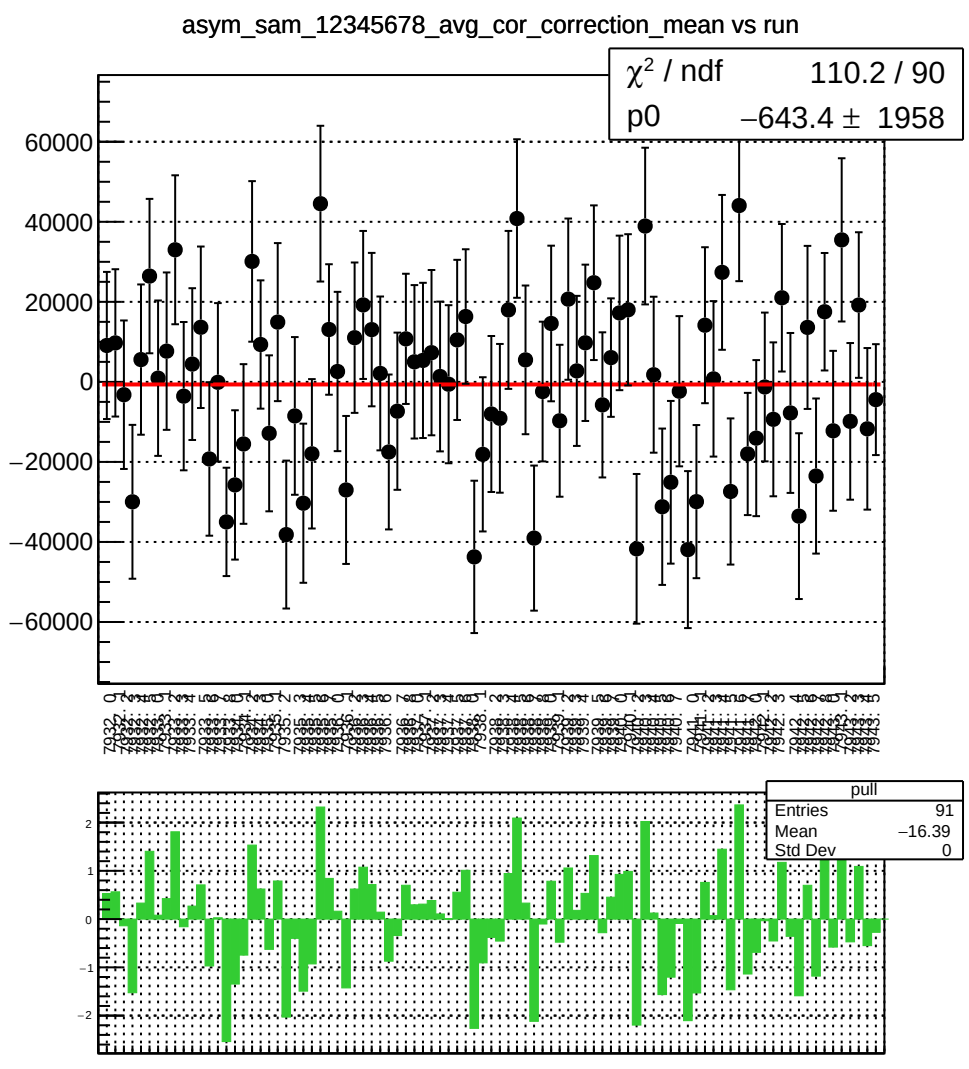

pull1D
Entries 91
Mean 0.008027
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

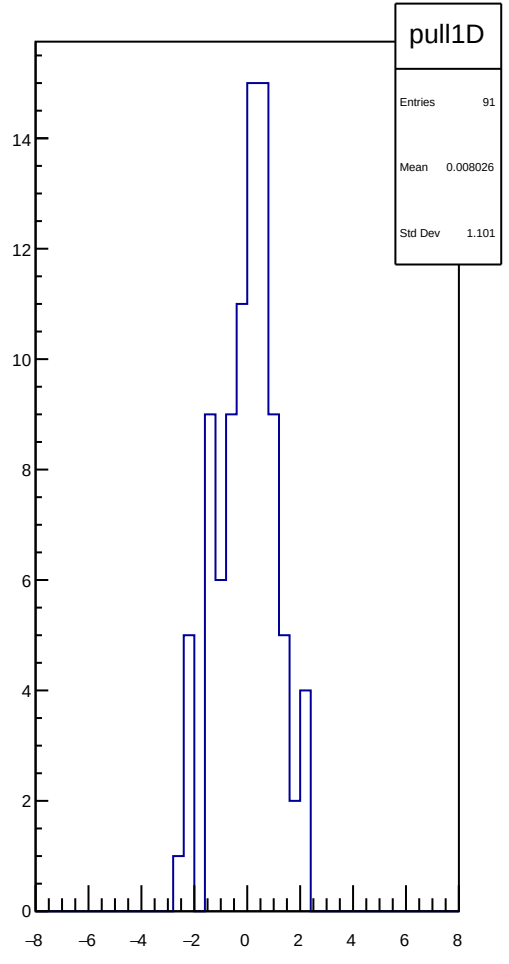

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1704 / 90
p0 1830 ± 1.384
2000
1950
1900
1850
1800
1750
1700

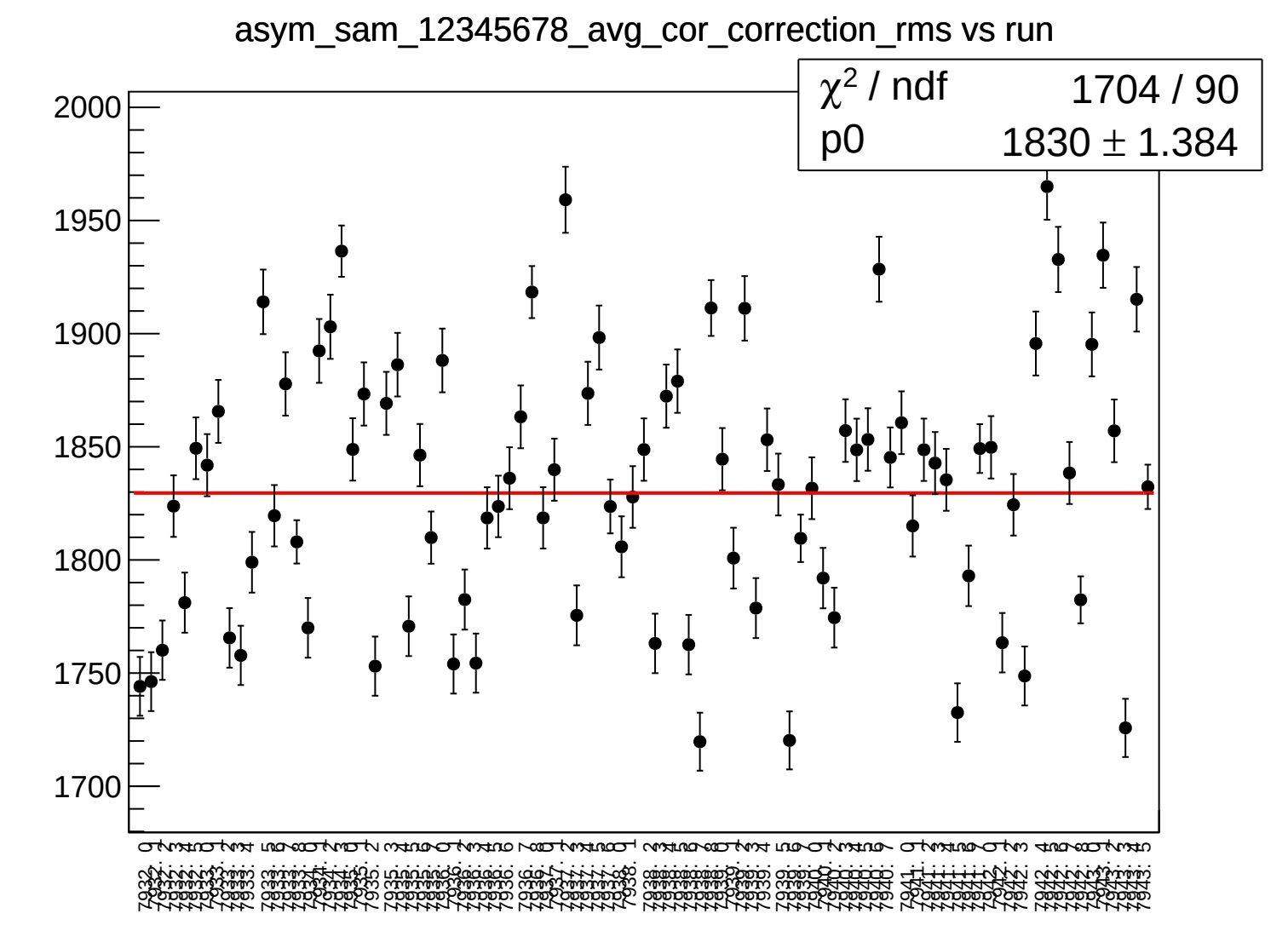

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 105 / 90
p0 670.2 ± 198.8
pull
Entries 91
Mean 73.52
Std Dev 0

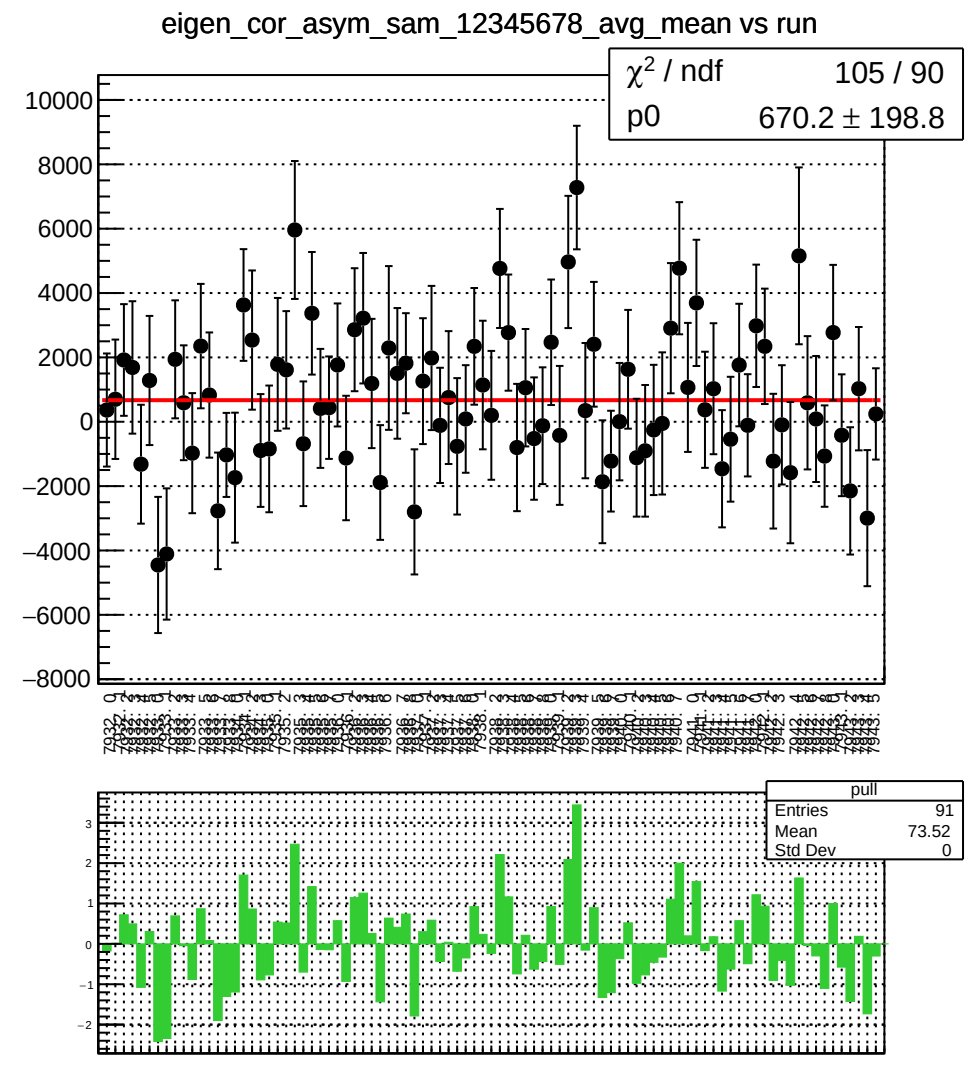

pull1D
Entries 91
Mean 0.02003
Std Dev 1.074

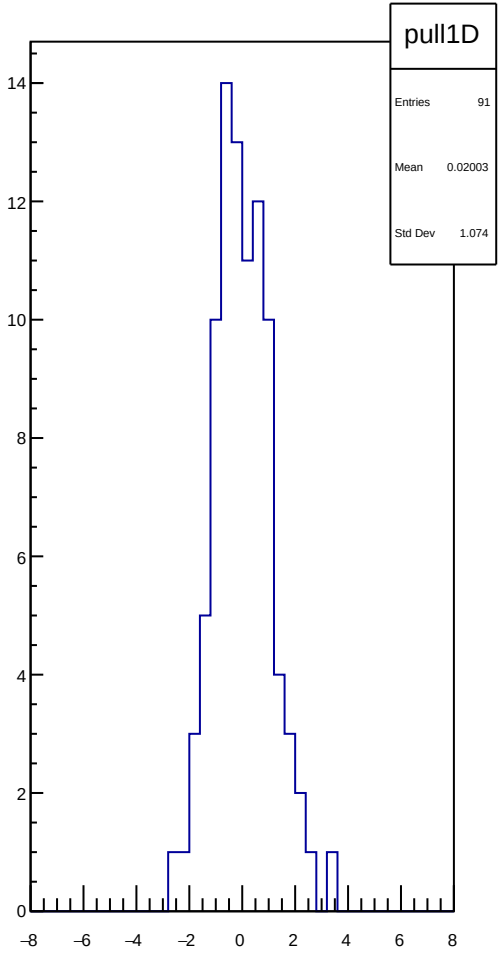

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 8723 / 90
p0 185.4 ± 0.1406
260
240
220
200
180
160

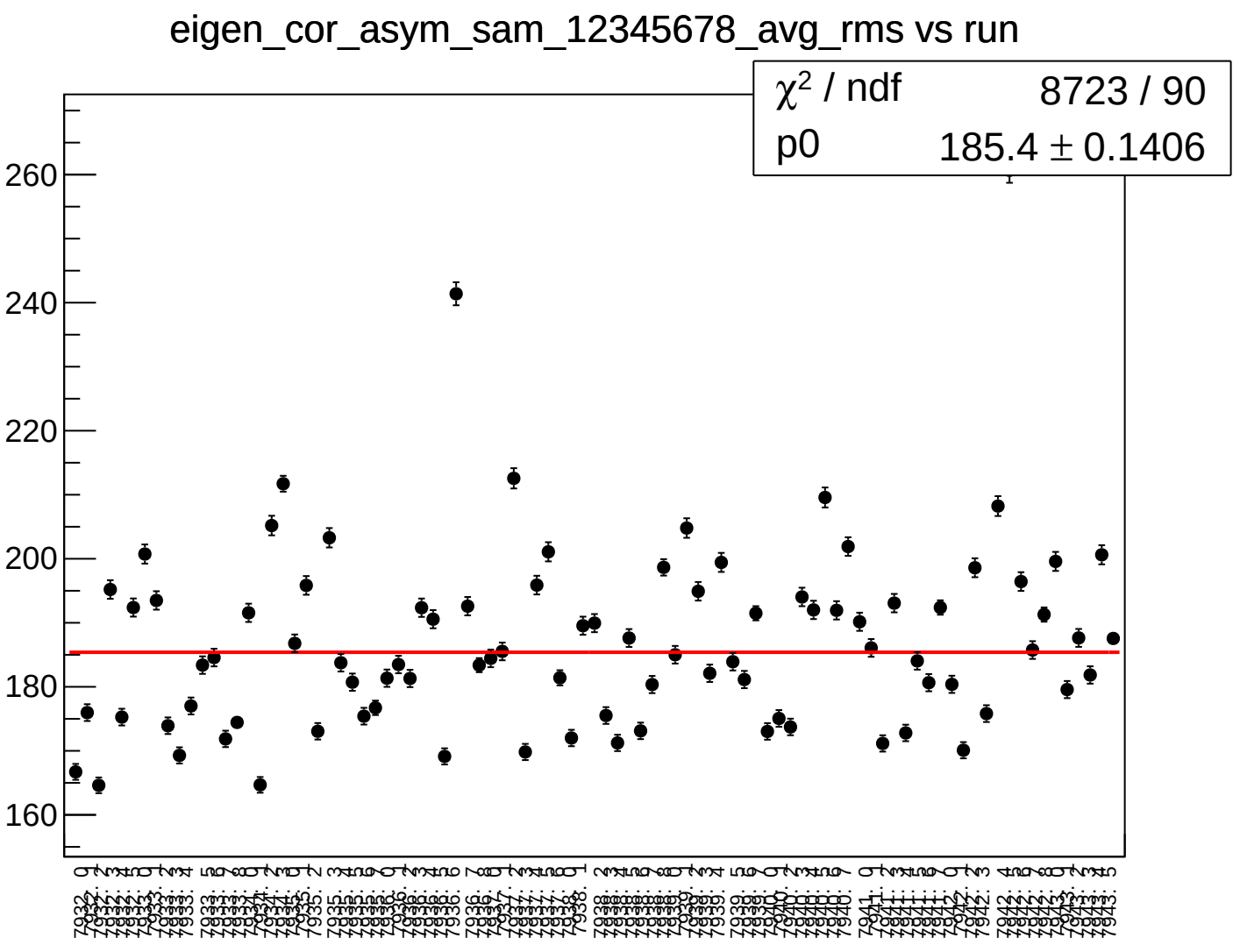

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 110.2 / 90
p0 −643.4 ± 1958
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −16.39
Std Dev 0
2
1
0
−1
−2

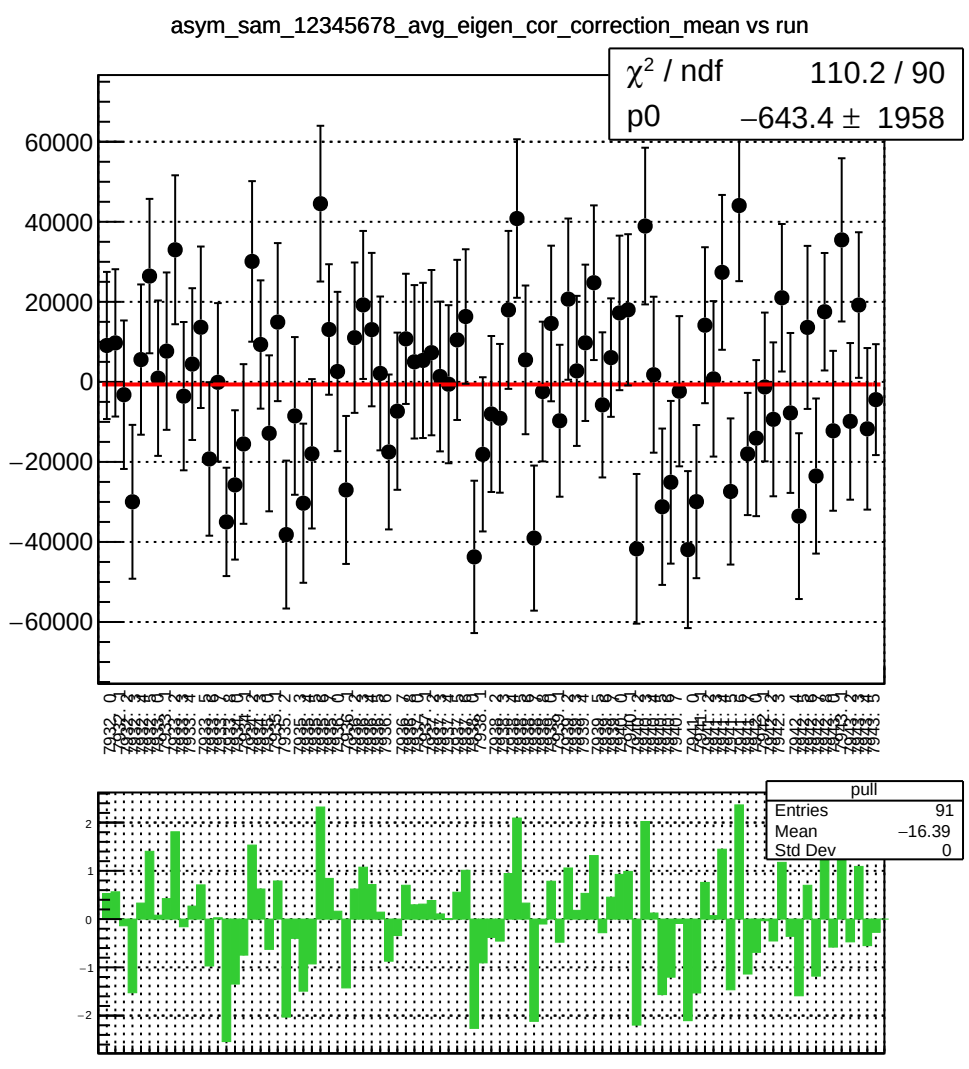

pull1D
Entries 91
Mean 0.008026
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

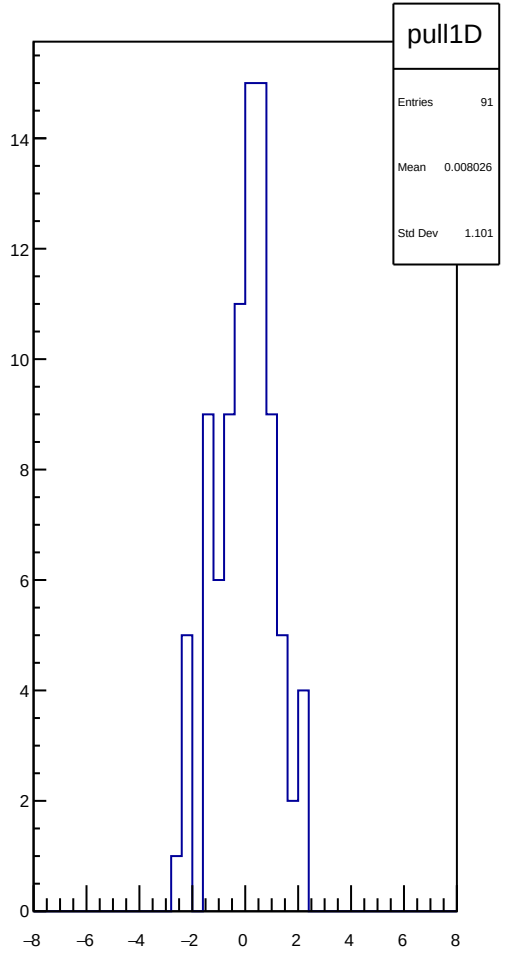

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1704 / 90
p0 1830 ± 1.384
2000
1950
1900
1850
1800
1750
1700

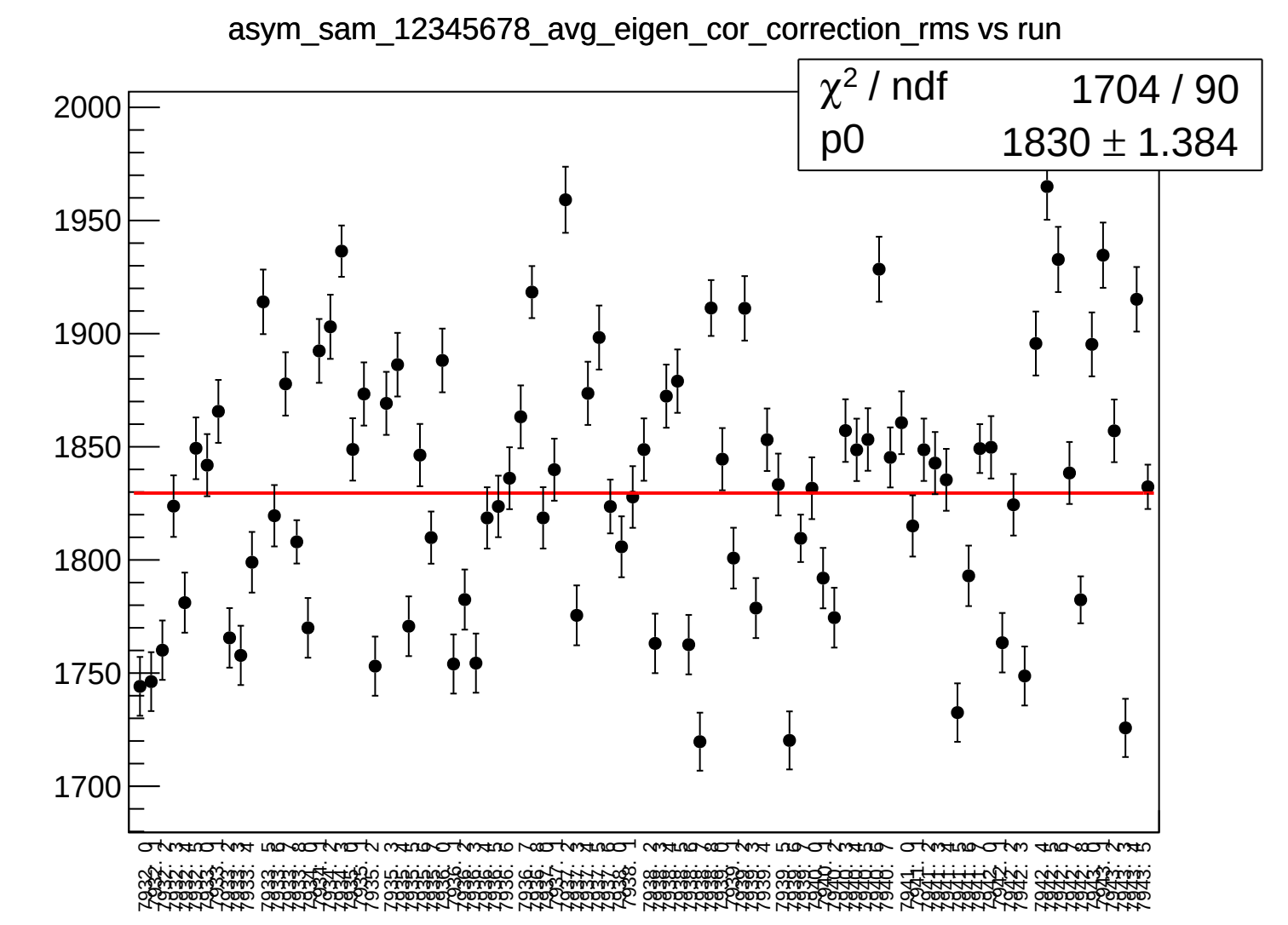

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 105 / 90
p0 670.2 ± 198.8
pull
Entries 91
Mean 73.52
Std Dev 0

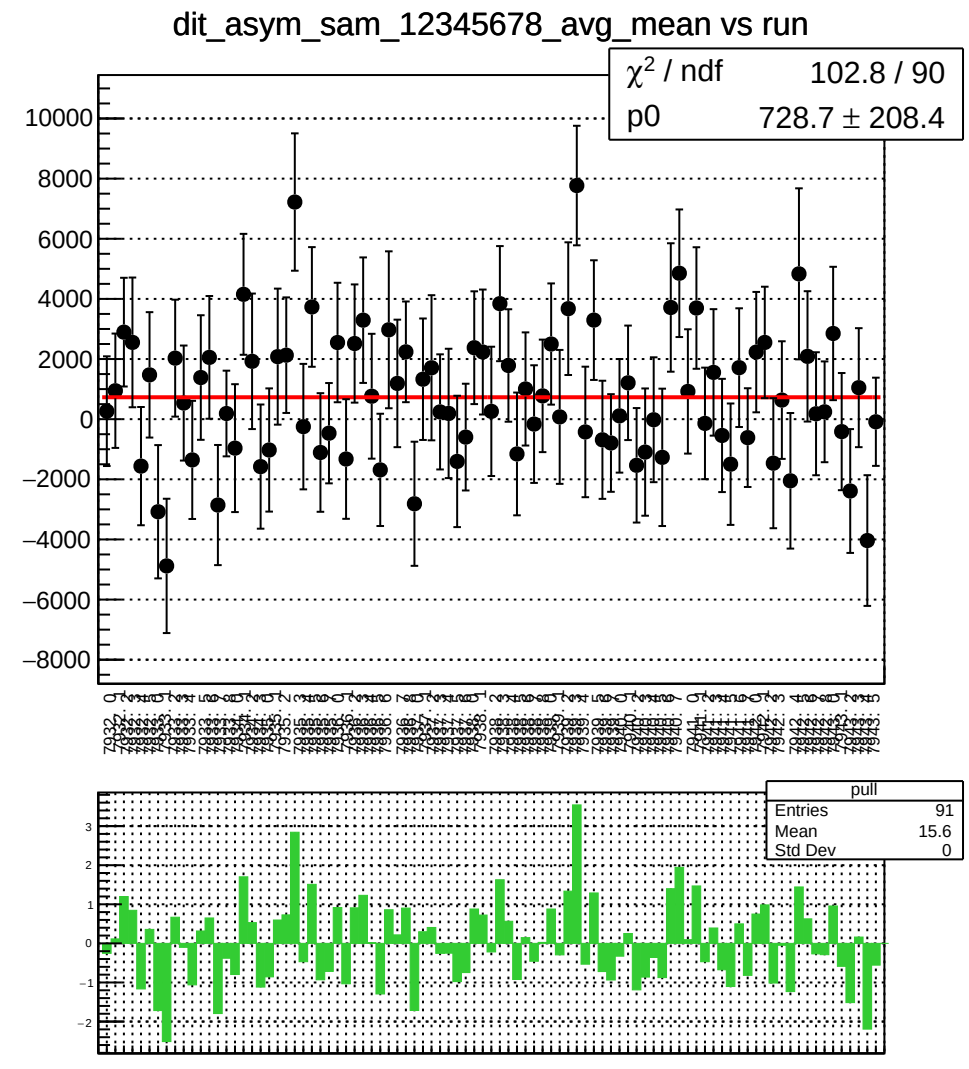

pull1D
Entries 91
Mean 0.02003
Std Dev 1.074

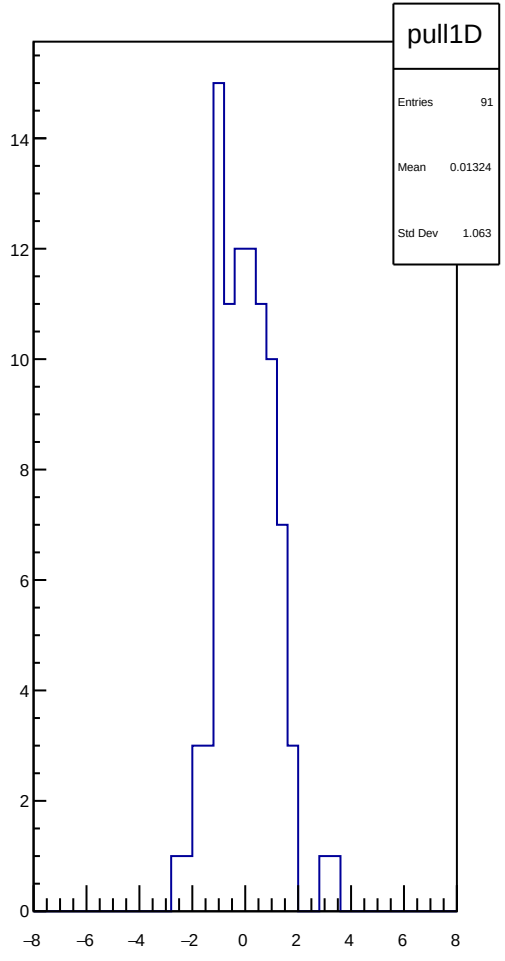

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 8723 / 90
p0 185.4 ± 0.1406
260
240
220
200
180
160

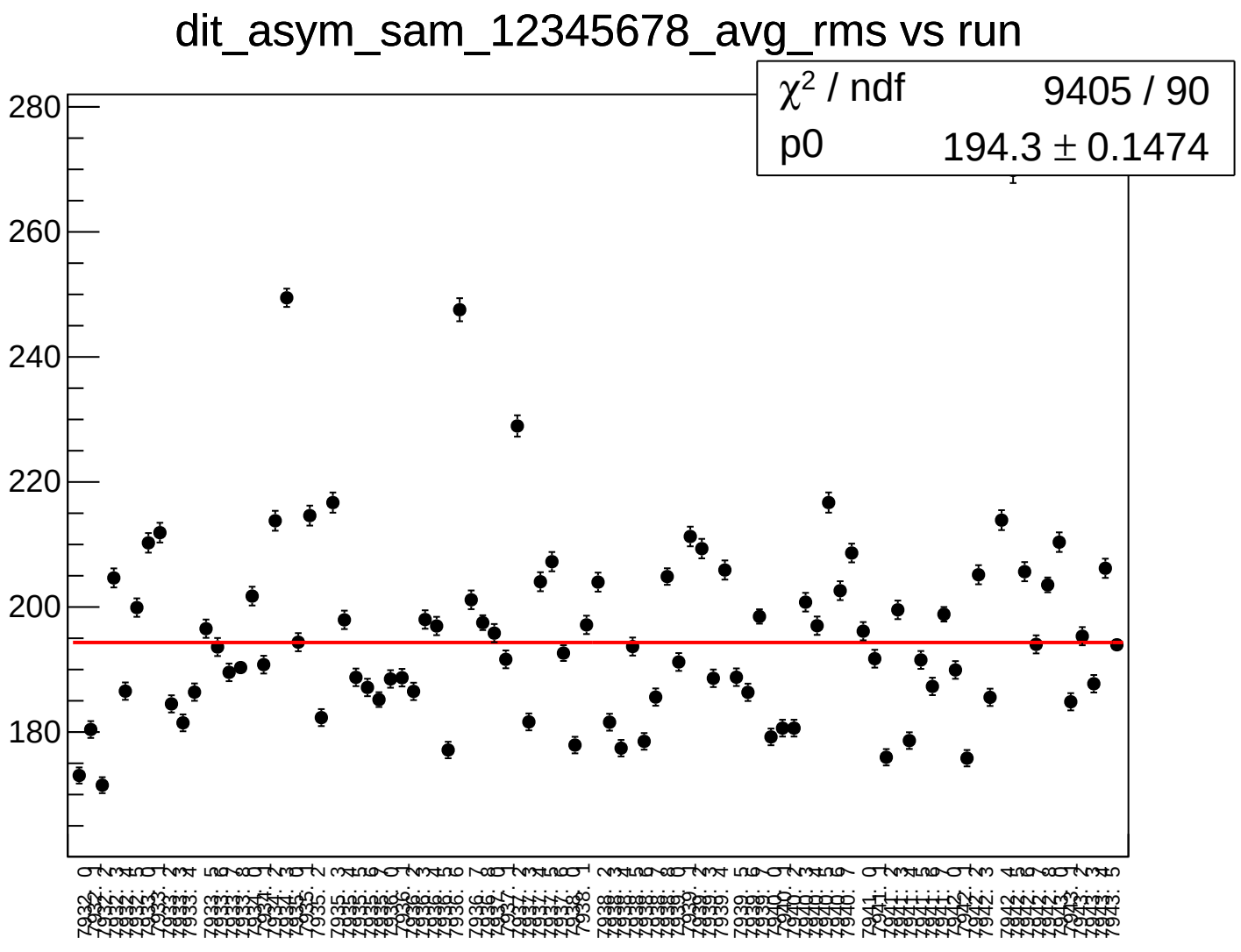

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 110.2 / 90
p0 −643.4 ± 1958
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −16.39
Std Dev 0
2
1
0
−1
−2

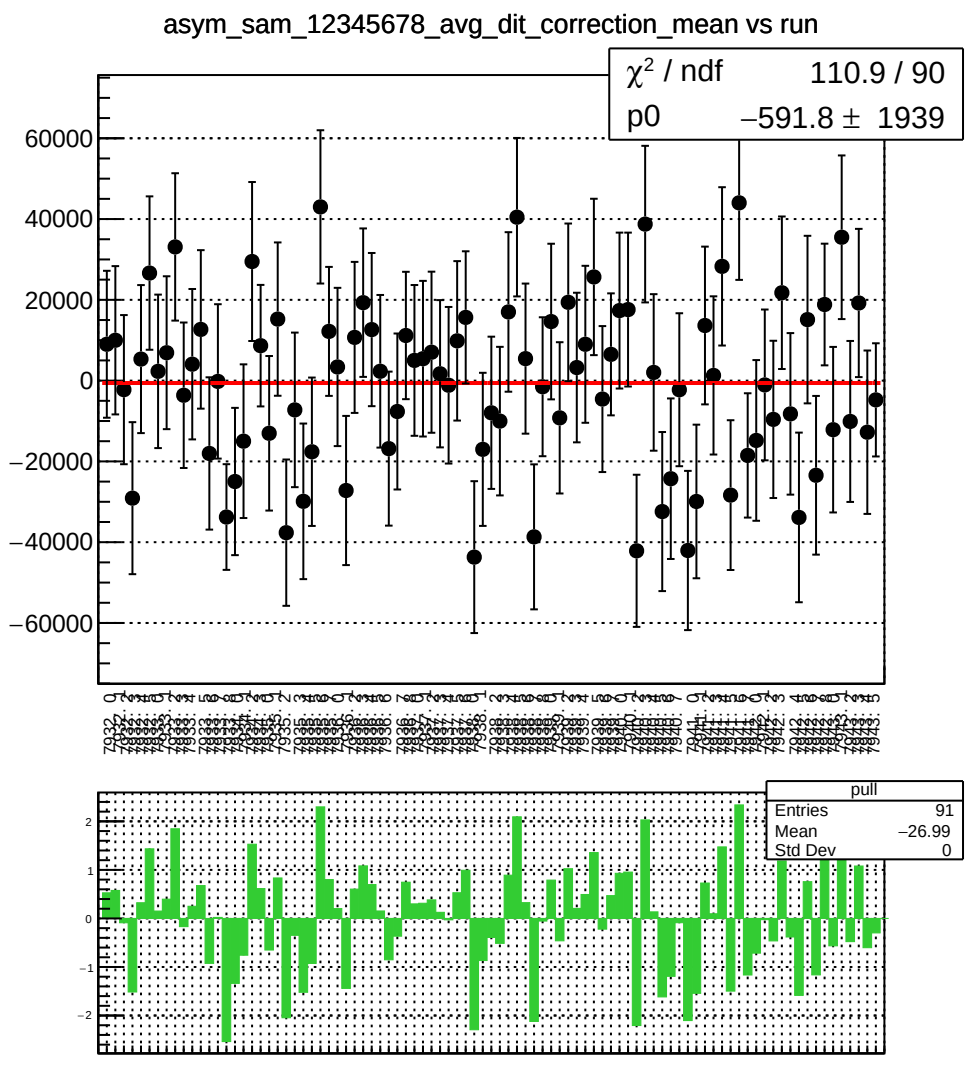

pull1D
Entries 91
Mean 0.008026
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

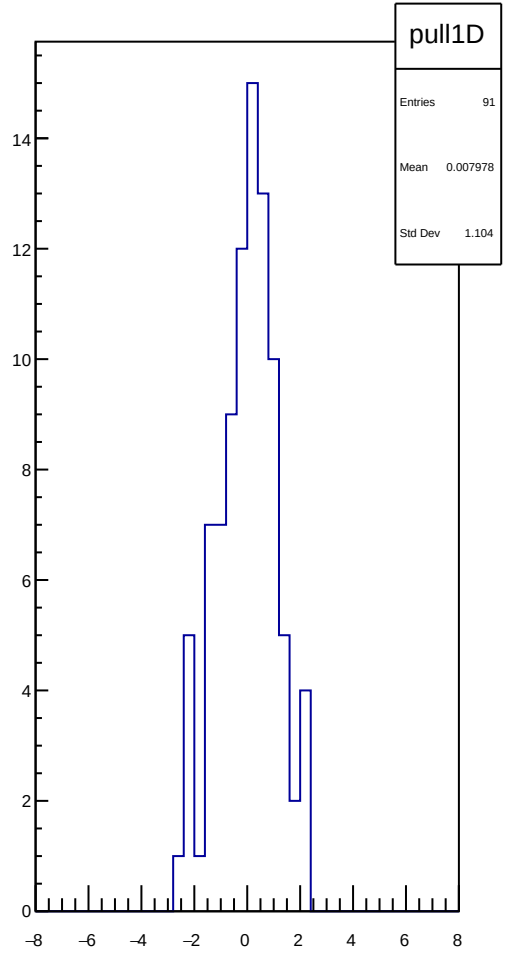

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1704 / 90
p0 1830 ± 1.384
2000
1950
1900
1850
1800
1750
1700

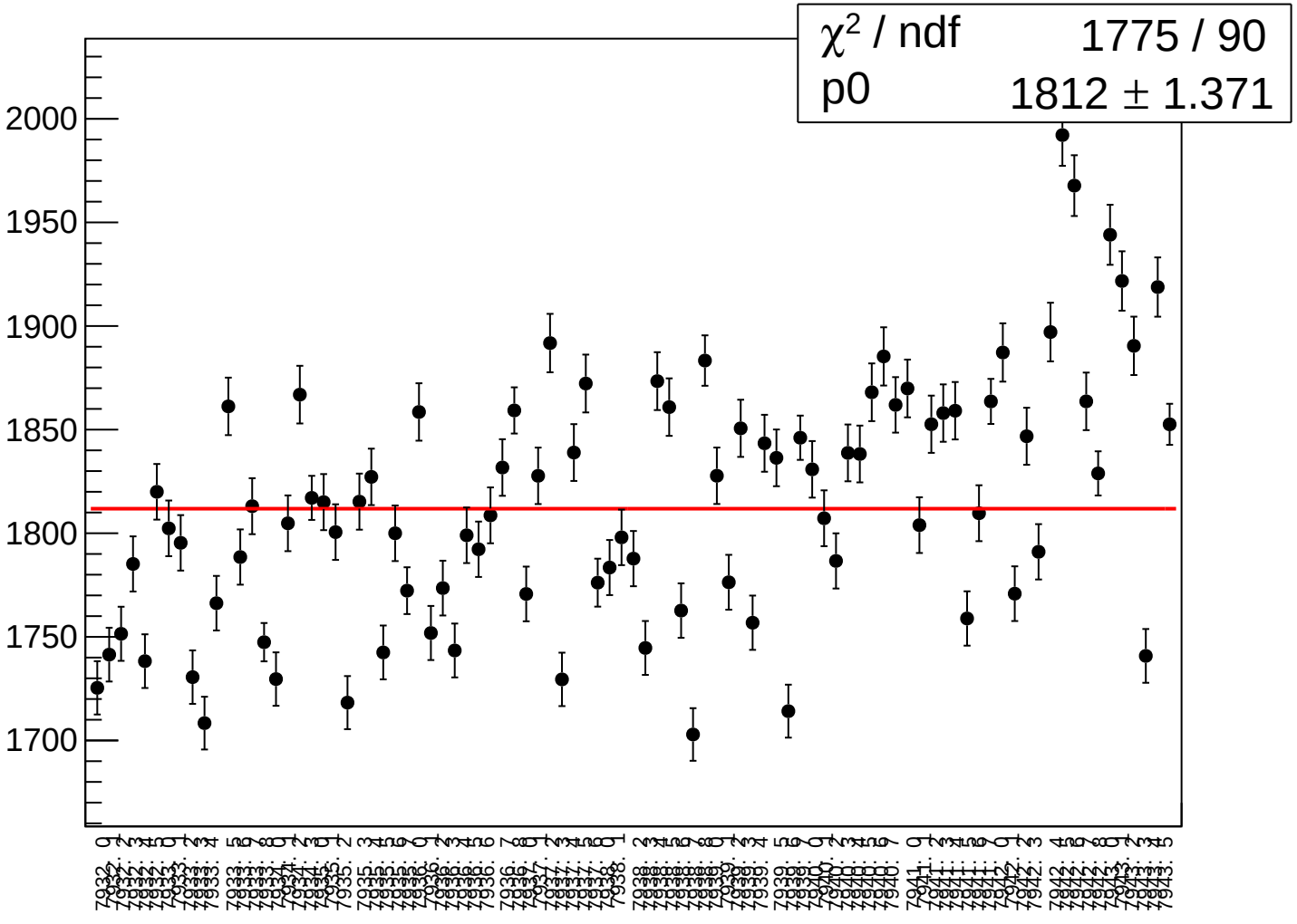

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102.8 / 90
p0 728.7 ± 208.4
pull
Entries 91
Mean 15.6
Std Dev 0

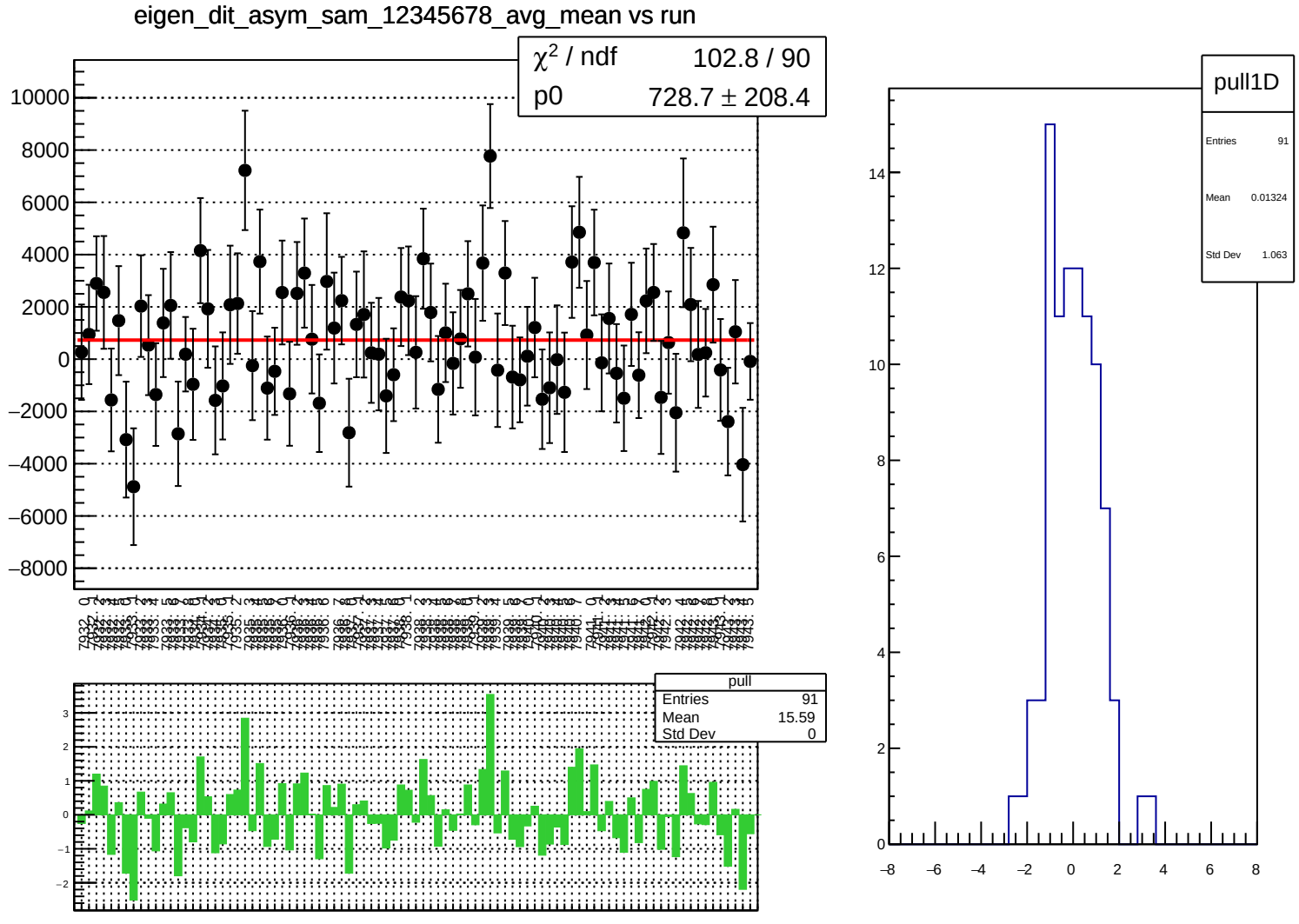

pull1D
Entries 91
Mean 0.01324
Std Dev 1.063

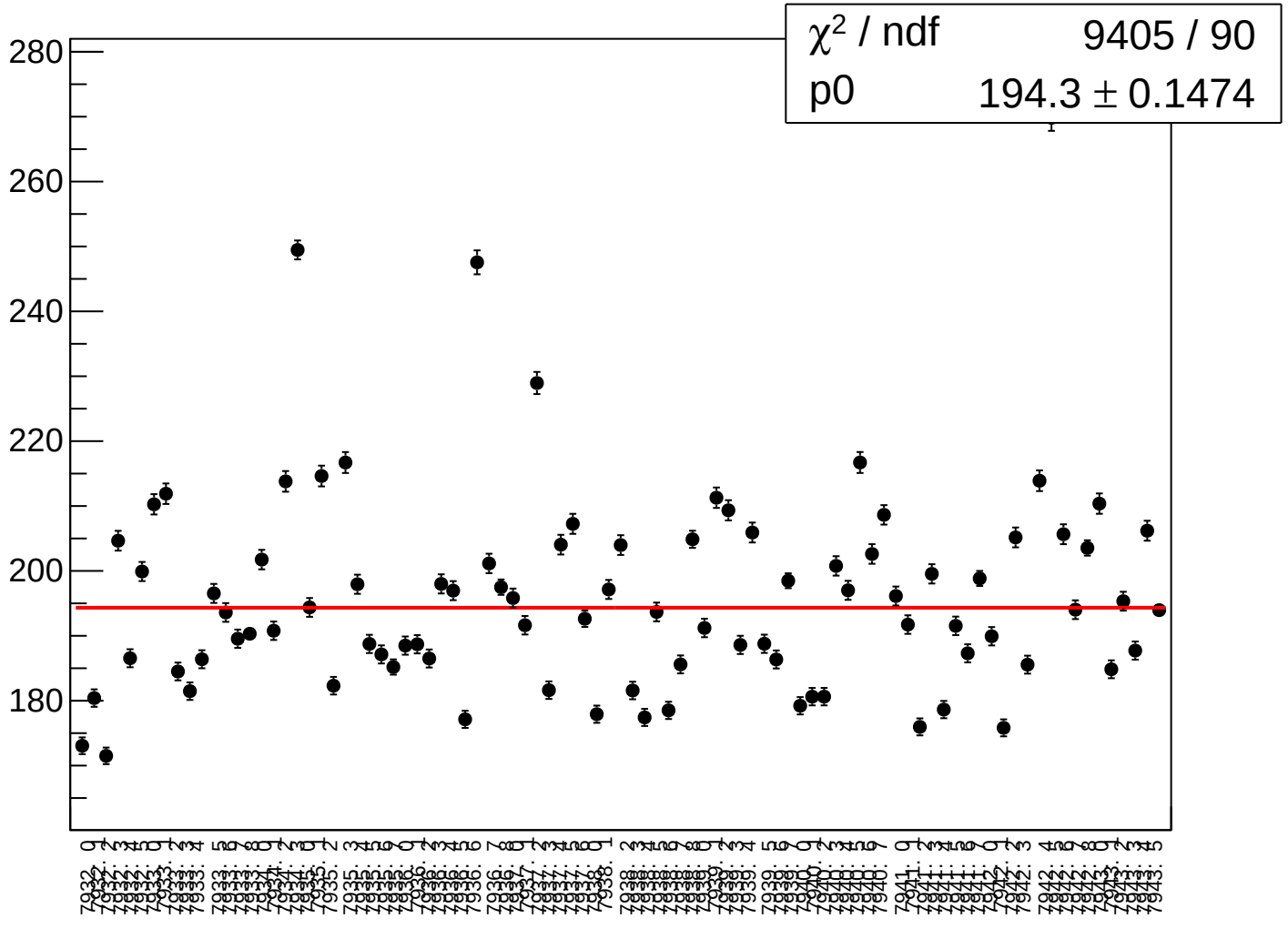

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9405 / 90
p0 194.3 ± 0.1474
280
260
240
220
200
180

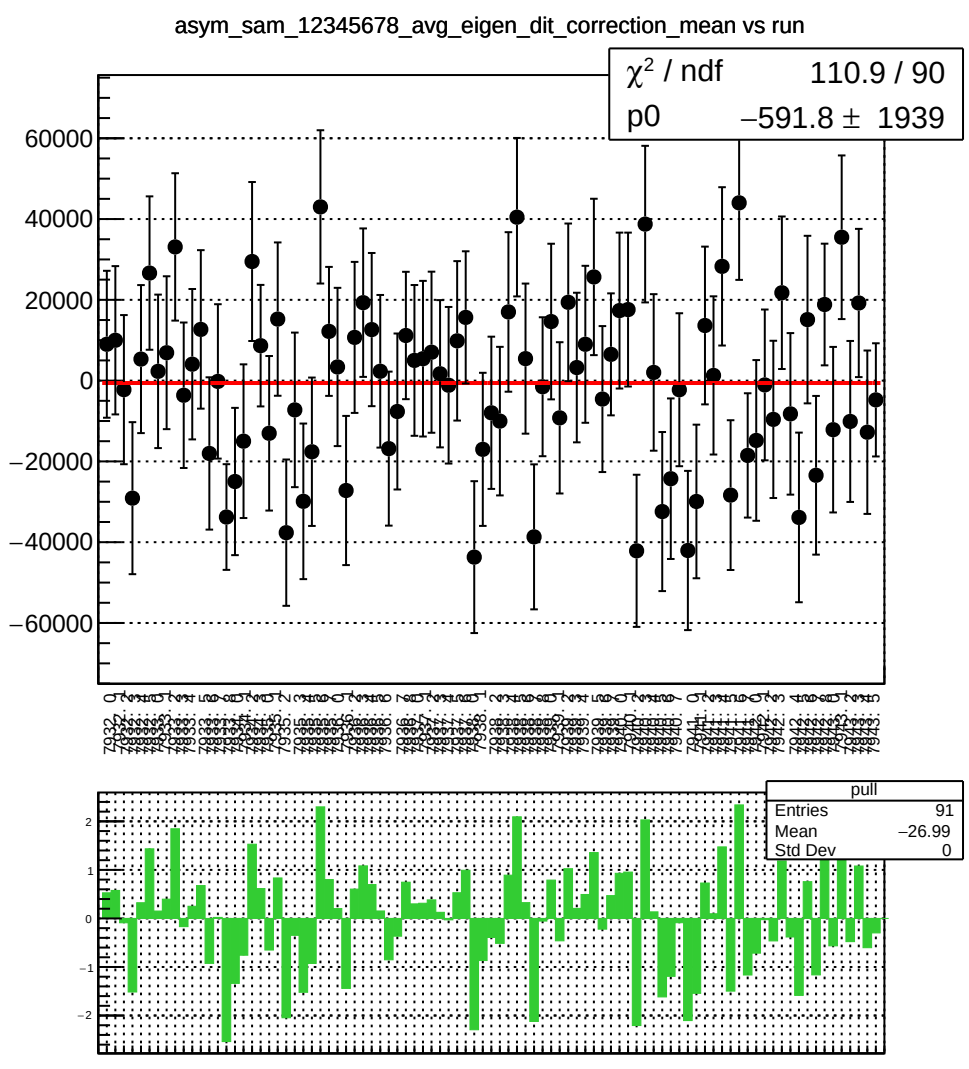

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 110.9 / 90
p0 −591.8 ± 1939
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −26.99
Std Dev 0
2
1
0
−1
−2

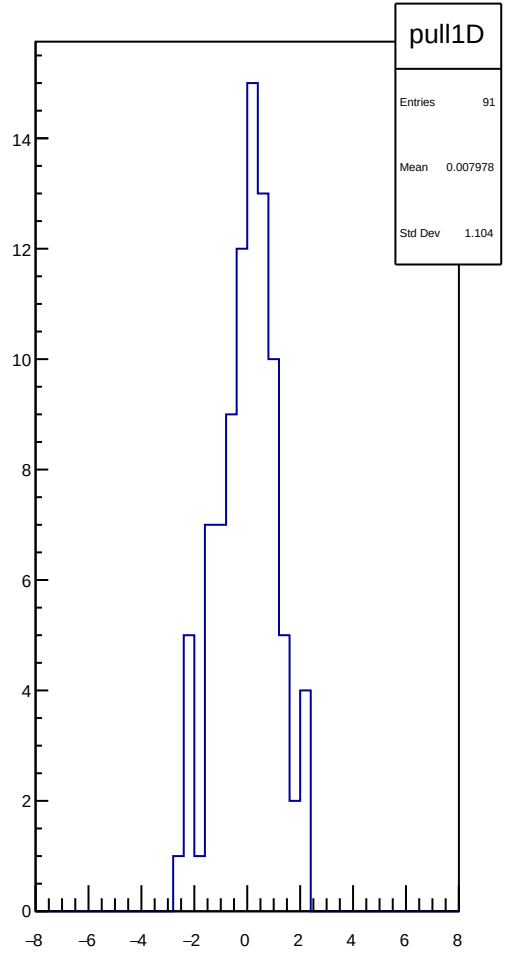

pull1D
Entries 91
Mean 0.007978
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

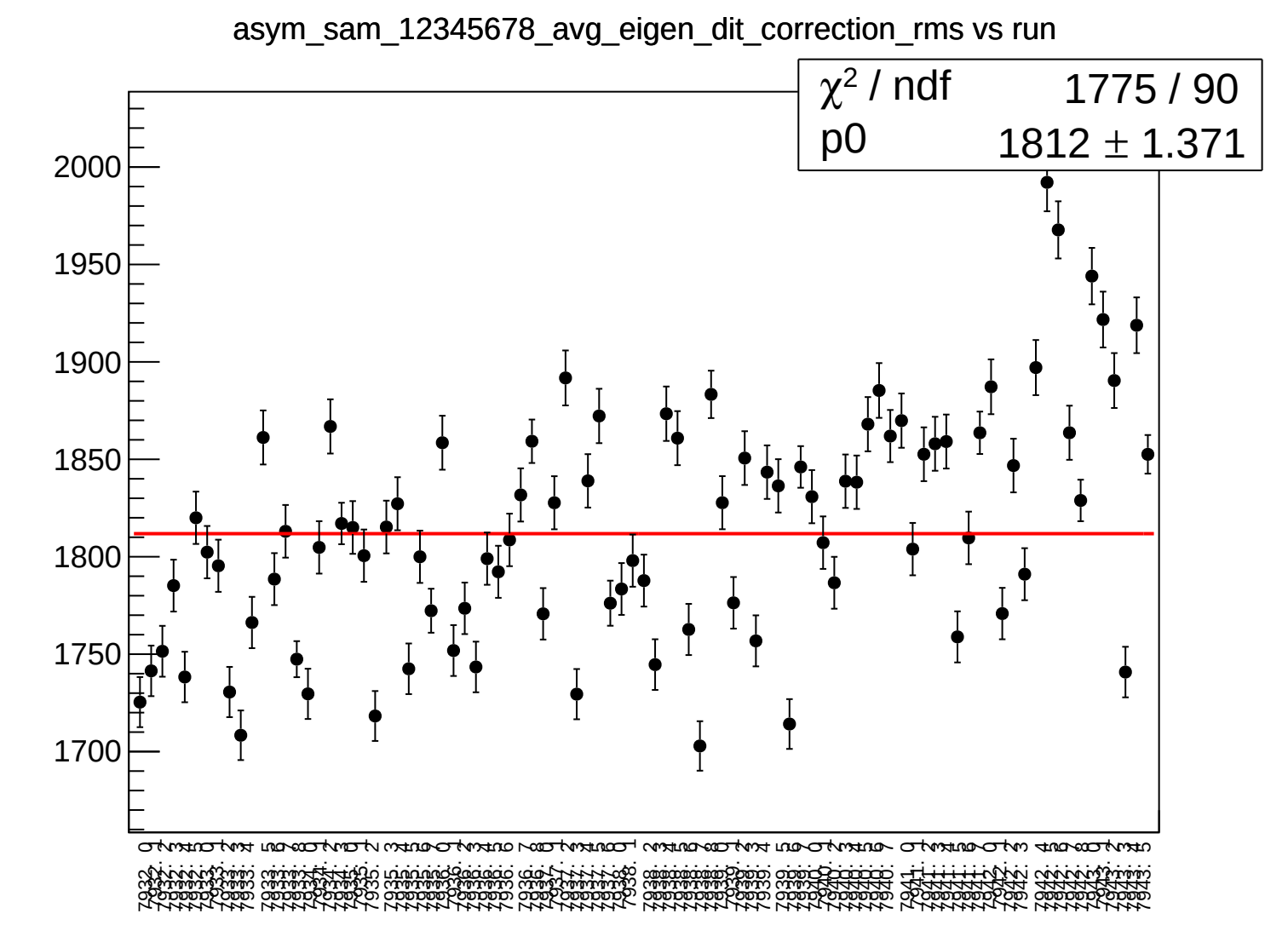

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1775 / 90
p0 1812 ± 1.371
2000
1950
1900
1850
1800
1750
1700

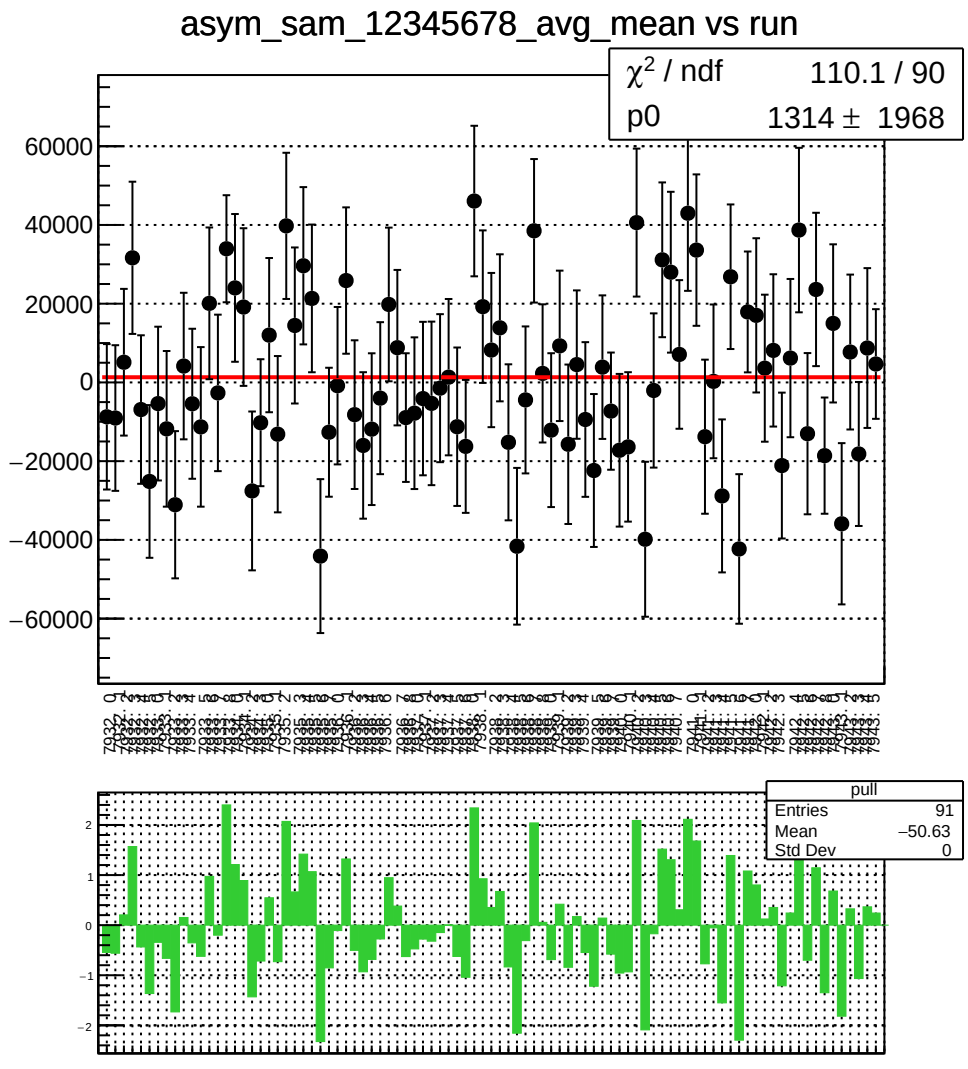

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102.8 / 90
p0 728.7 ± 208.4
pull
Entries 91
Mean 15.59
Std Dev 0
pull1D
Entries 91
Mean 0.01324
Std Dev 1.063

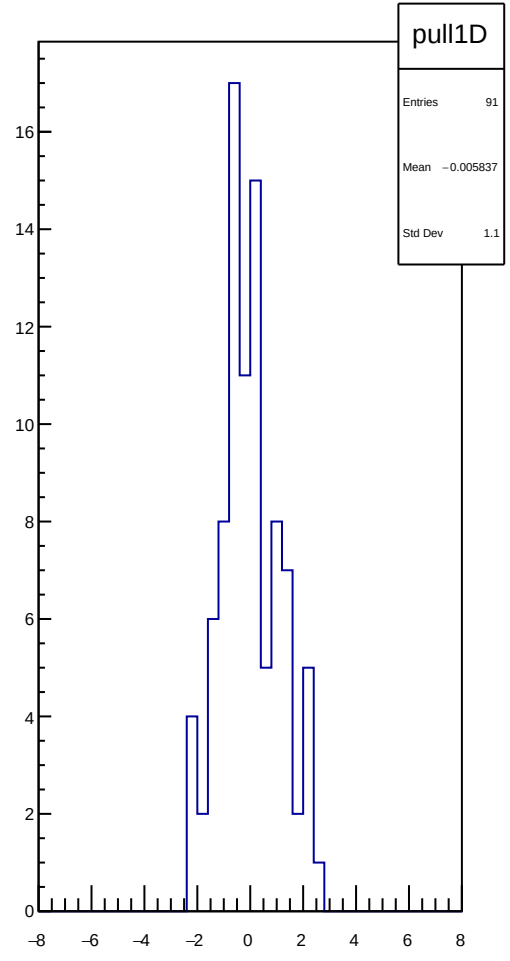

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9405 / 90
p0 194.3 ± 0.1474
280
260
240
220
200
180

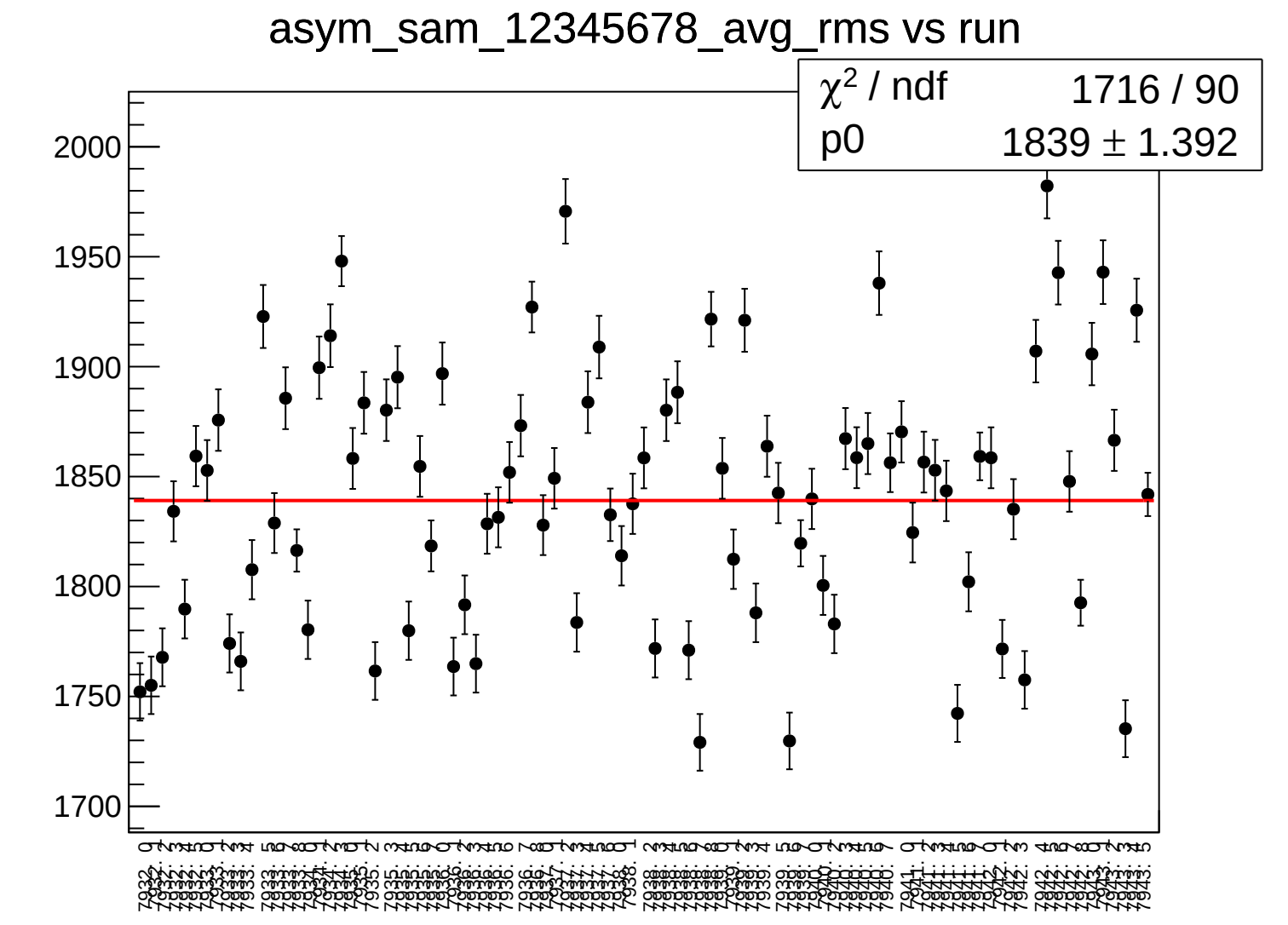

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 110.9 / 90
p0 −591.8 ± 1939
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −26.99
Std Dev 0
2
1
0
−1
−2

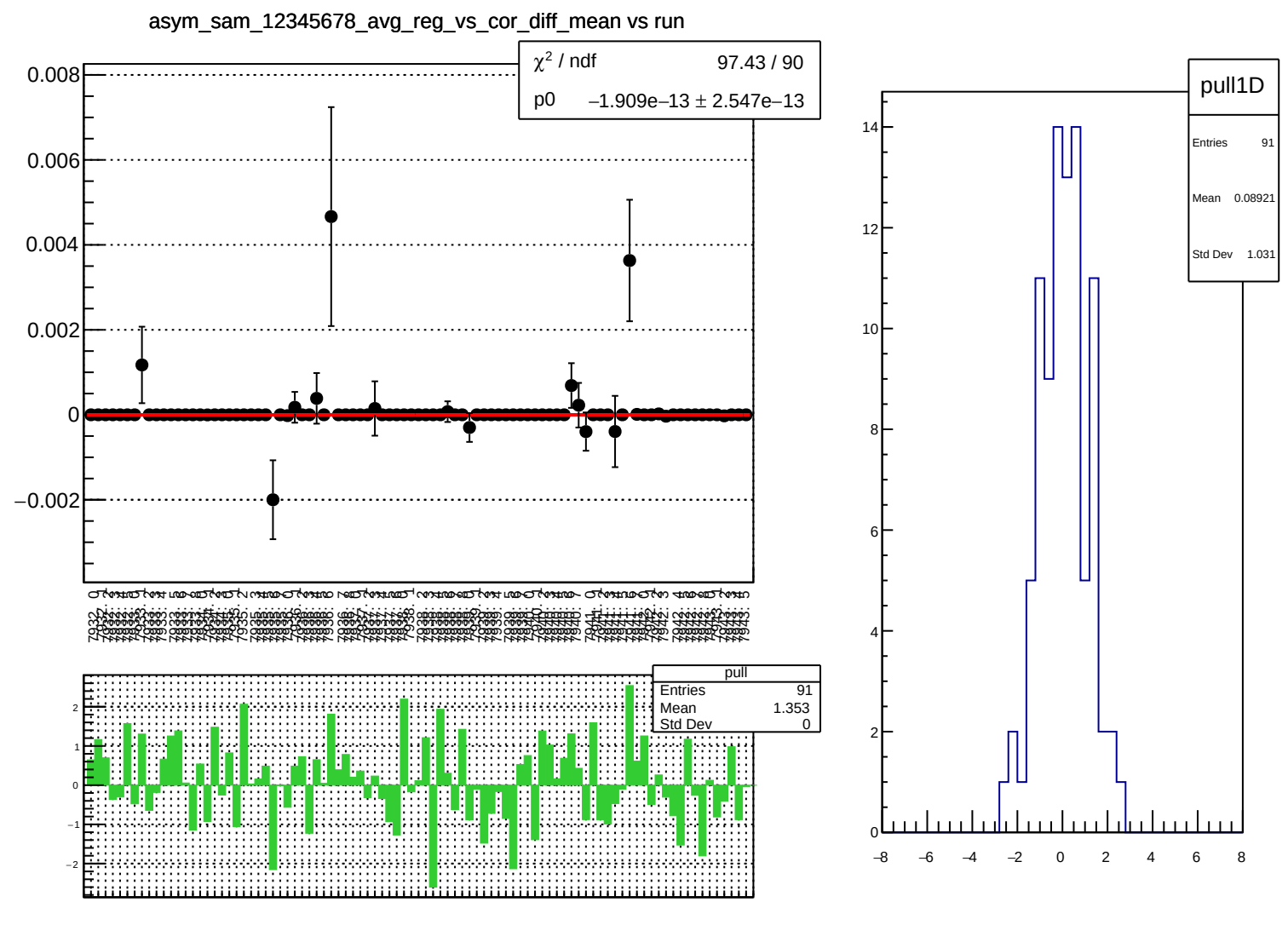

pull1D
Entries 91
Mean 0.007978
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

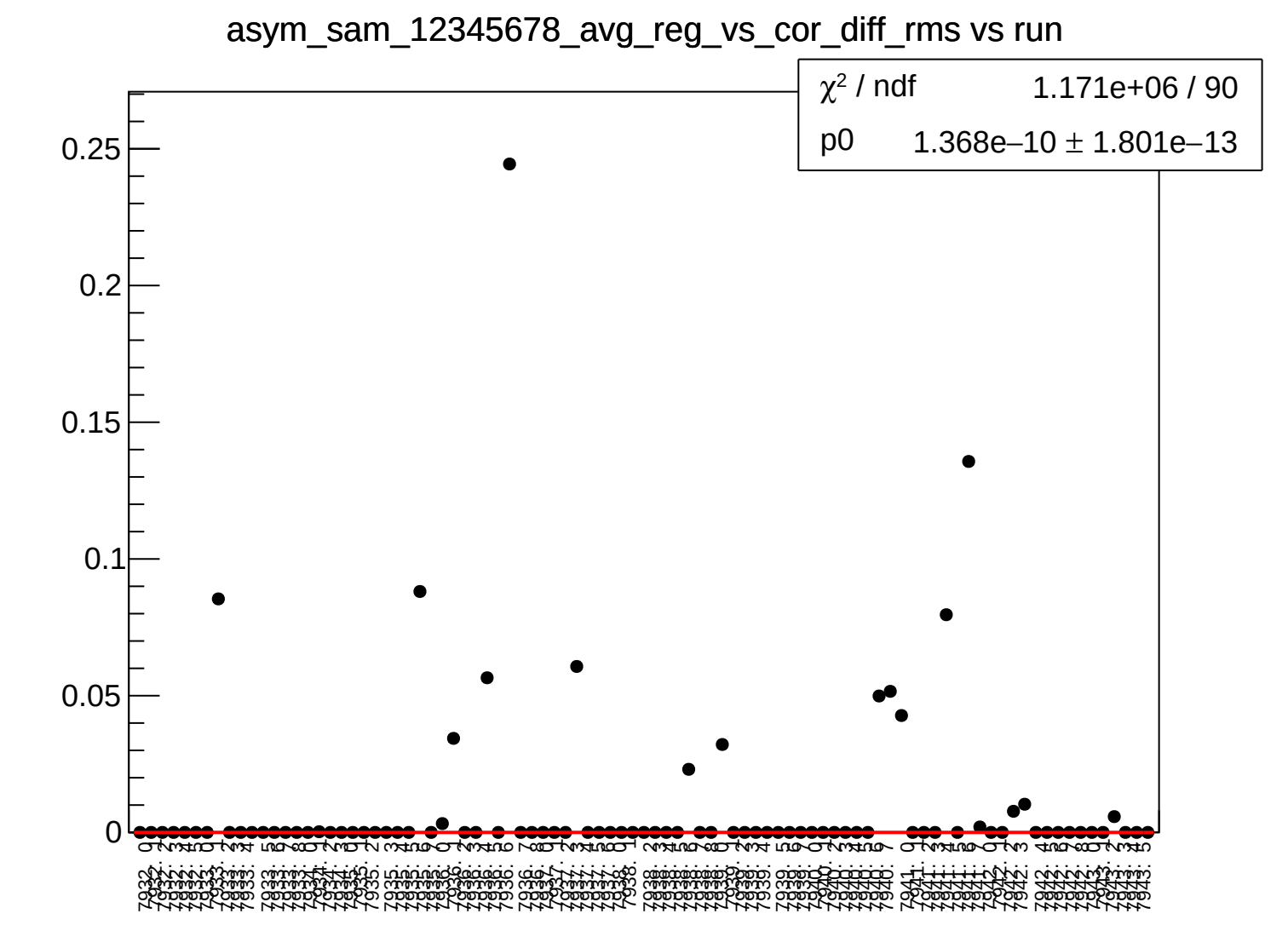

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1775 / 90
p0 1812 ± 1.371
2000
1950
1900
1850
1800
1750
1700

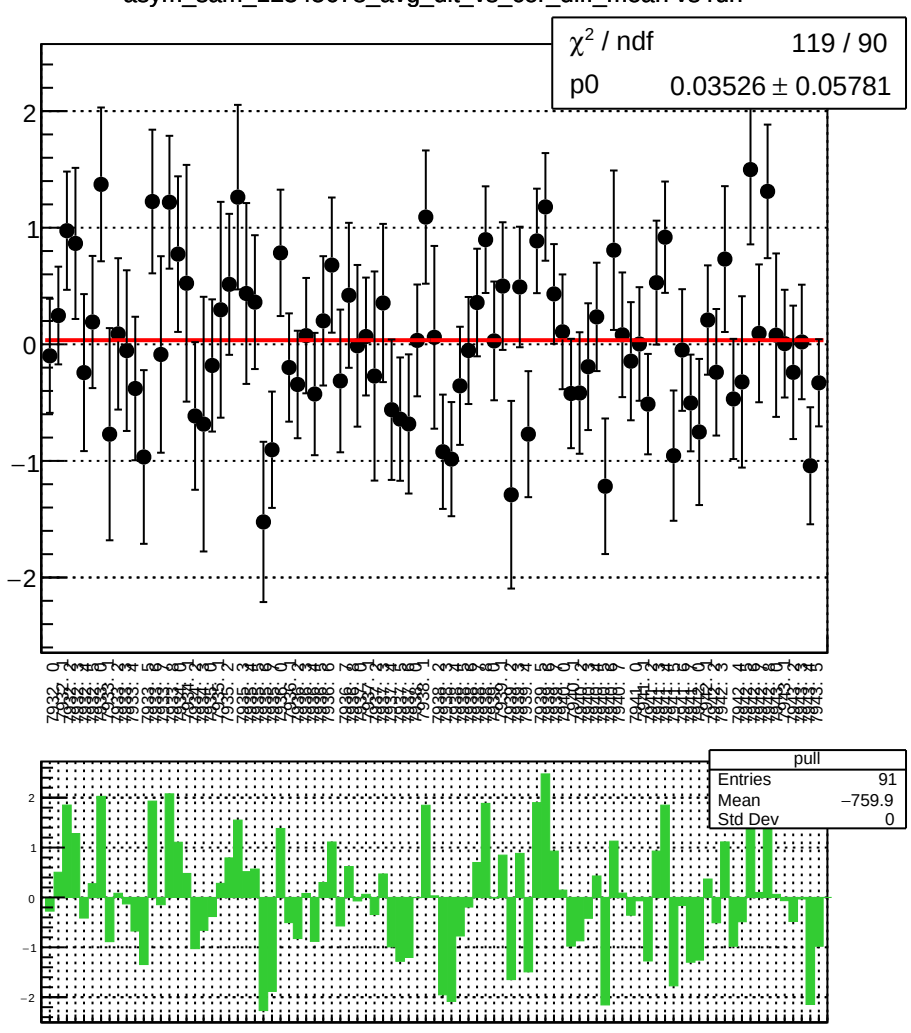

asym_sam_12345678_avg_mean vs run
χ² / ndf 110.1 / 90
p0 1314 ± 1968
pull
Entries 91
Mean −50.63
Std Dev 0

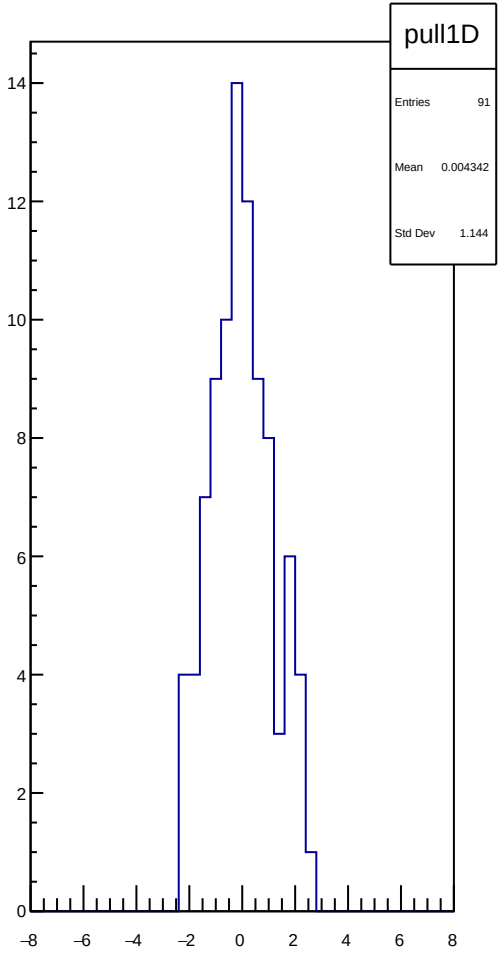

pull1D
Entries 91
Mean −0.005837
Std Dev 1.1

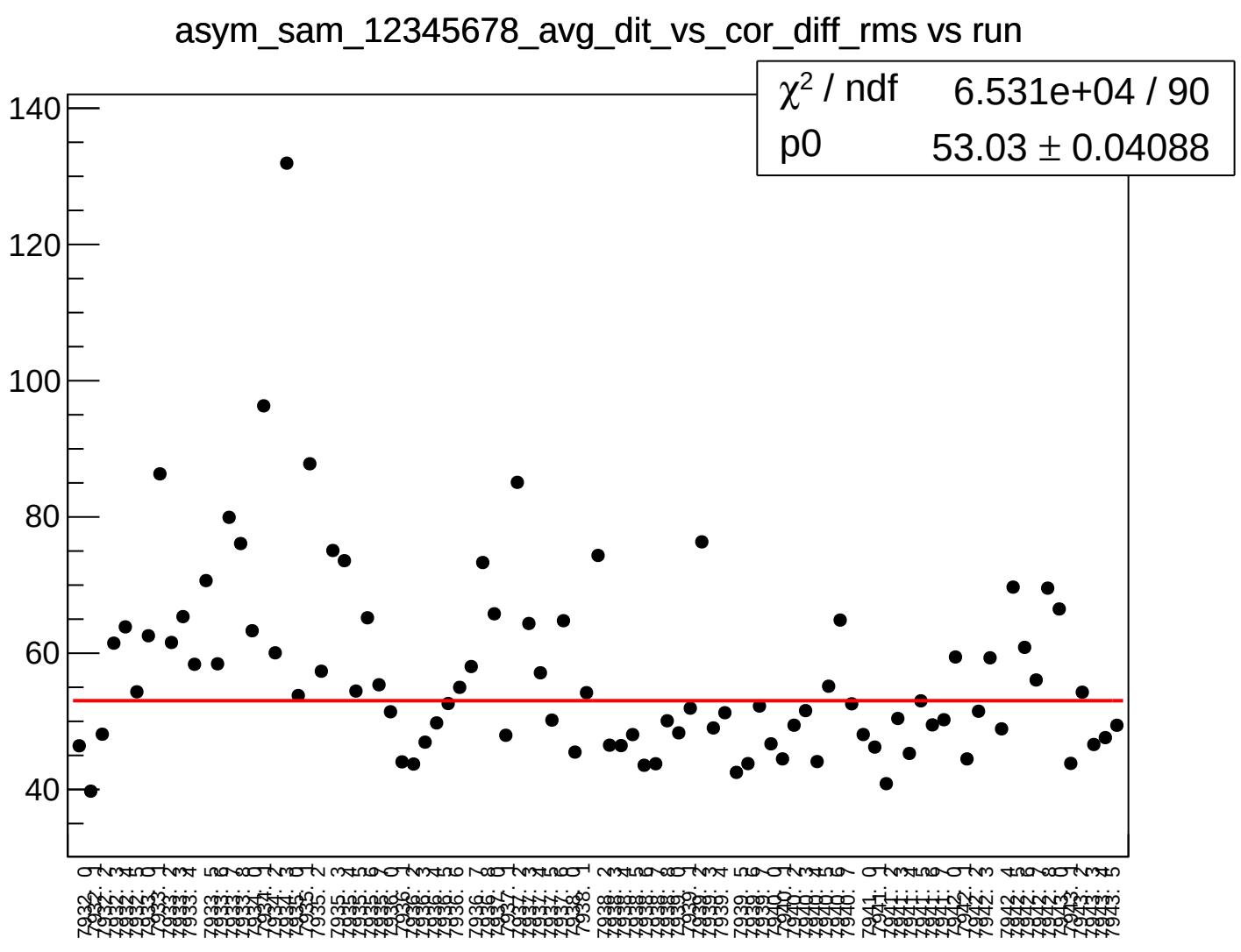

asym_sam_12345678_avg_rms vs run
χ² / ndf 1716 / 90
p0 1839 ± 1.392
2000
1950
1900
1850
1800
1750
1700

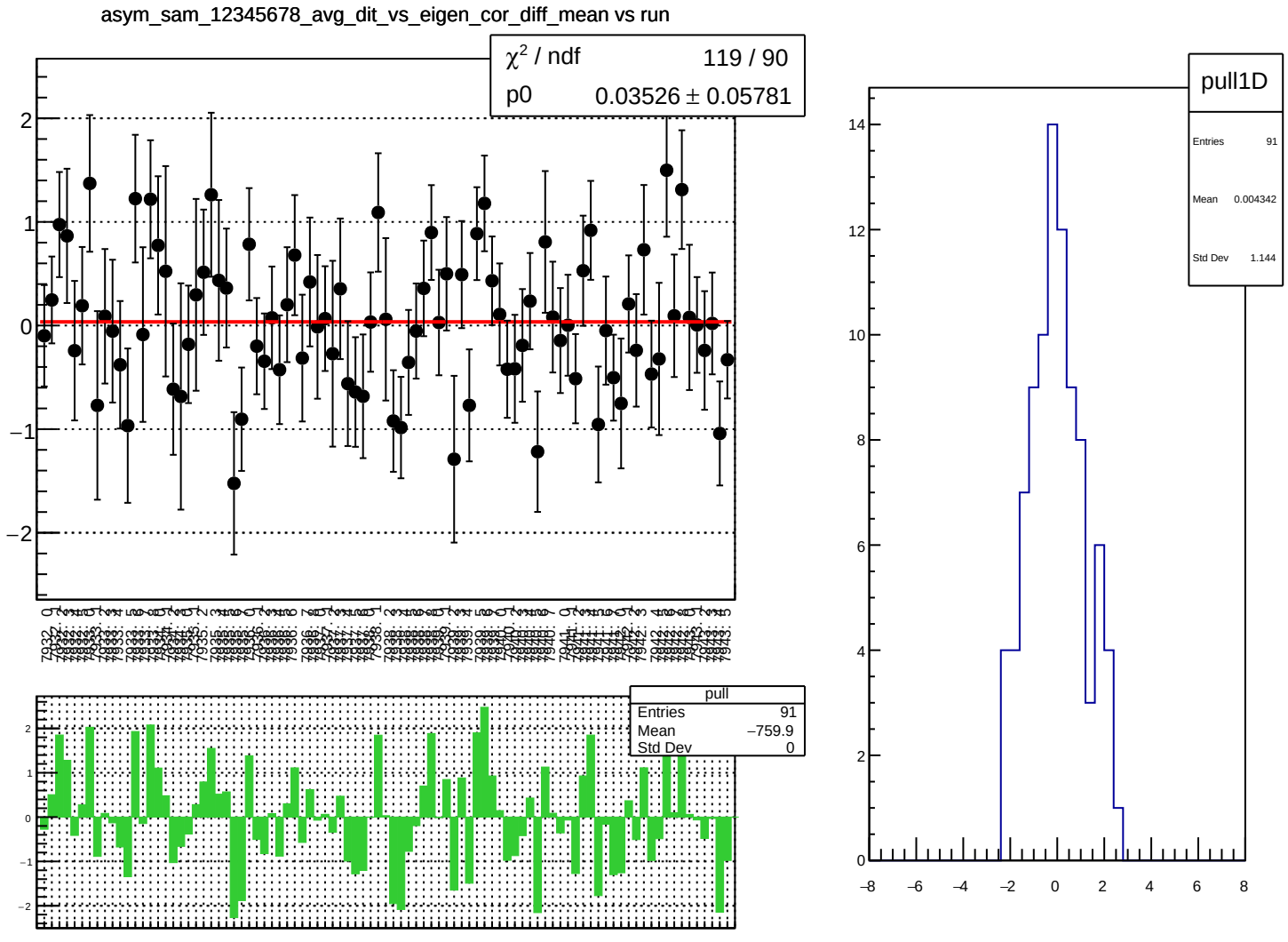

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.43 / 90
p0 −1.909e−13 ± 2.547e−13
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 91
Mean 1.353
Std Dev 0
pull1D
Entries 91
Mean 0.08921
Std Dev 1.031

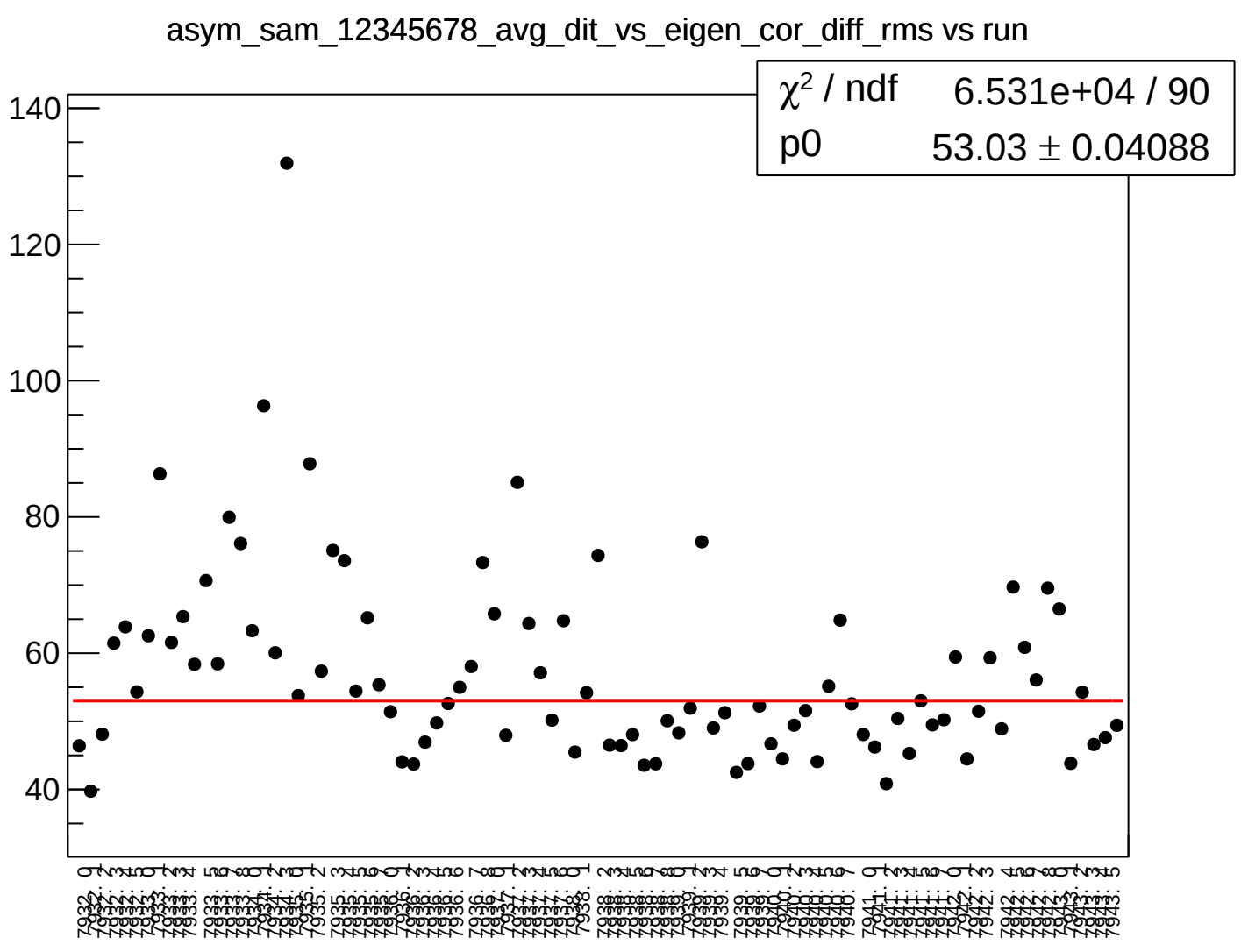

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.171e+06 / 90
p0 1.368e−10 ± 1.801e−13
0.25
0.2
0.15
0.1
0.05
0

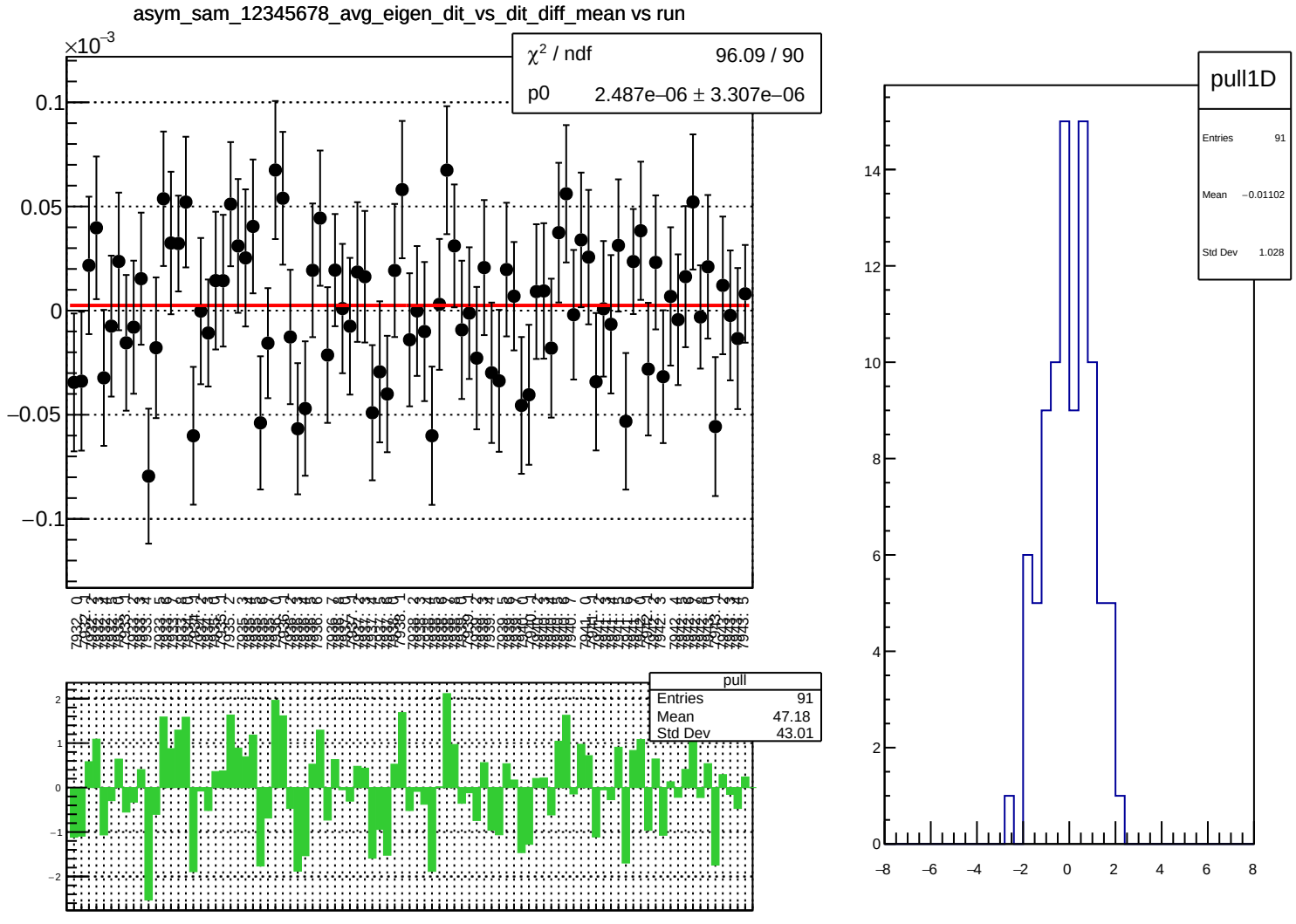

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119 / 90
p0 0.03526 ± 0.05781
pull
Entries 91
Mean −759.9
Std Dev 0

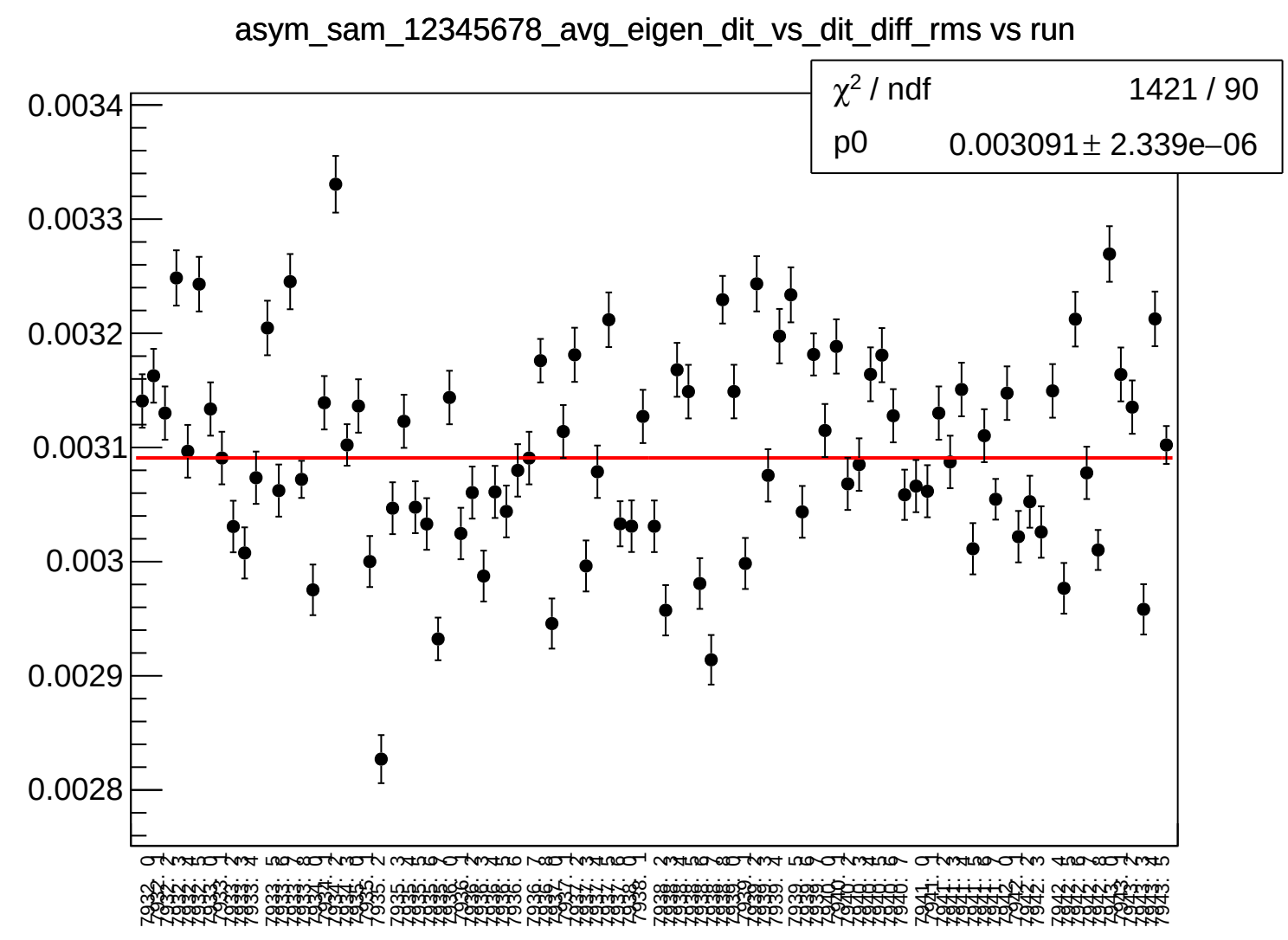

pull1D
Entries 91
Mean 0.004342
Std Dev 1.144

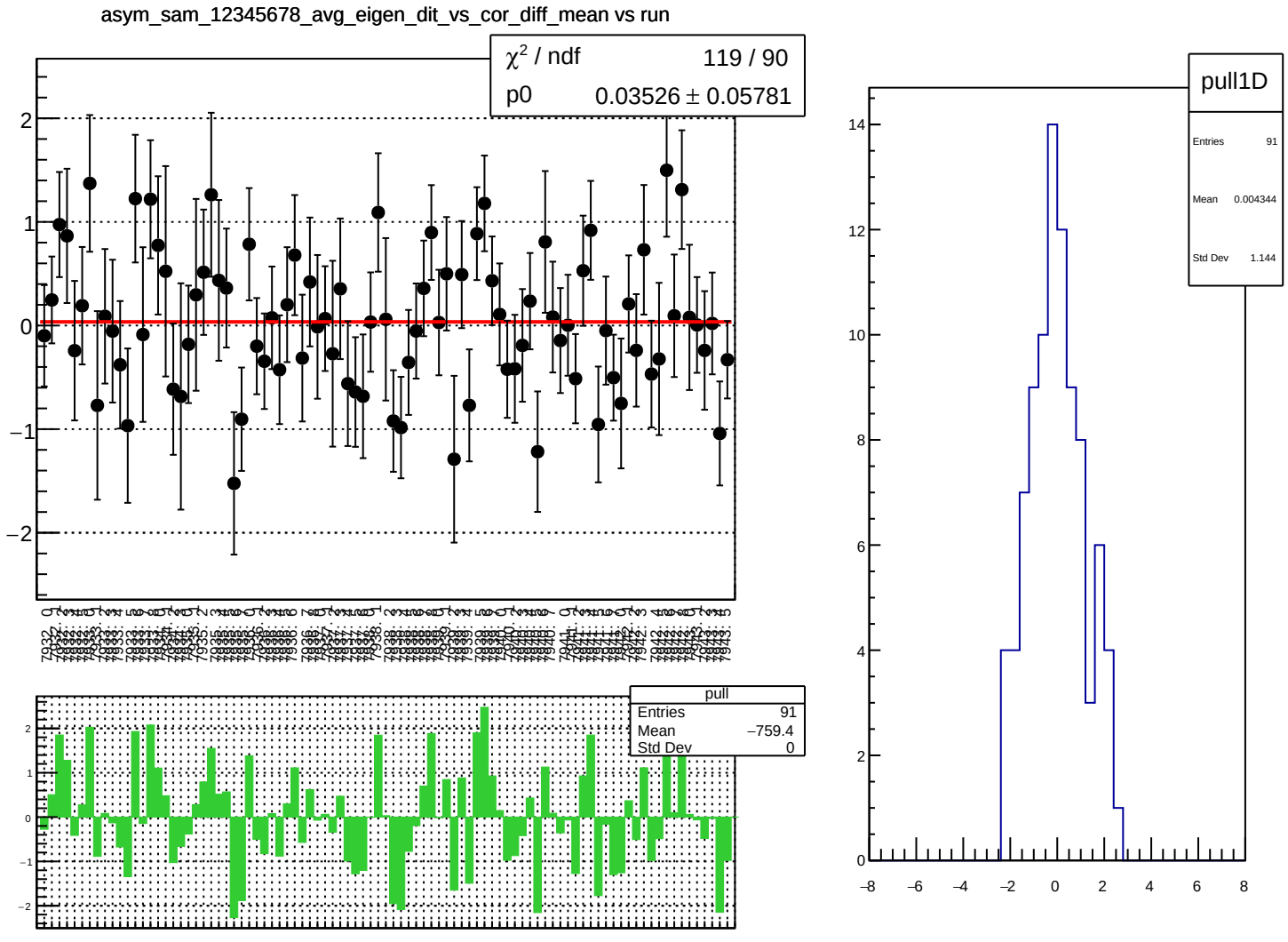

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.531e+04 / 90
p0 53.03 ± 0.04088
140
120
100
80
60
40

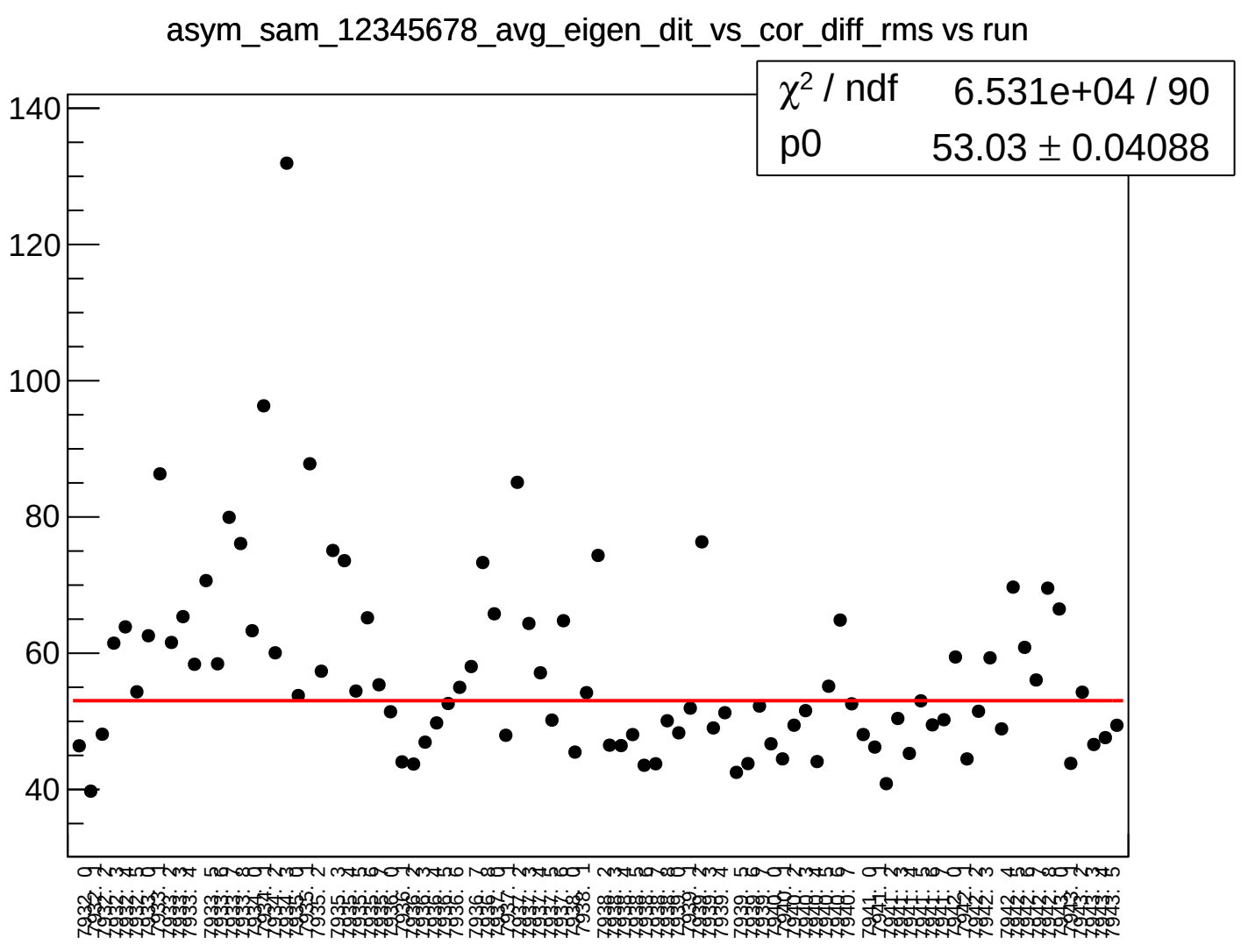

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119 / 90
p0 0.03526 ± 0.05781
pull
Entries 91
Mean −759.9
Std Dev 0
pull1D
Entries 91
Mean 0.004342
Std Dev 1.144

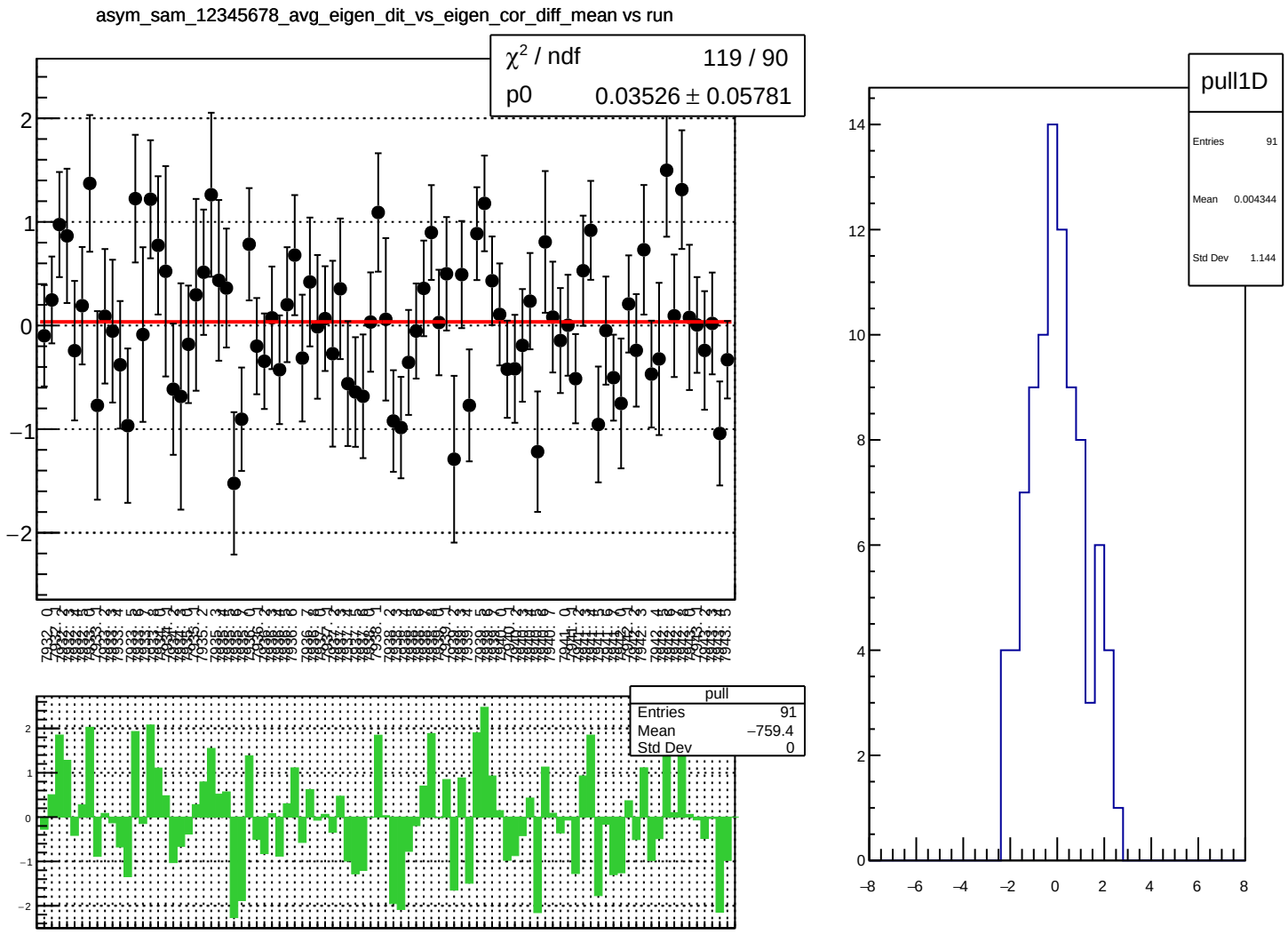

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.531e+04 / 90
p0 53.03 ± 0.04088
140
120
100
80
60
40

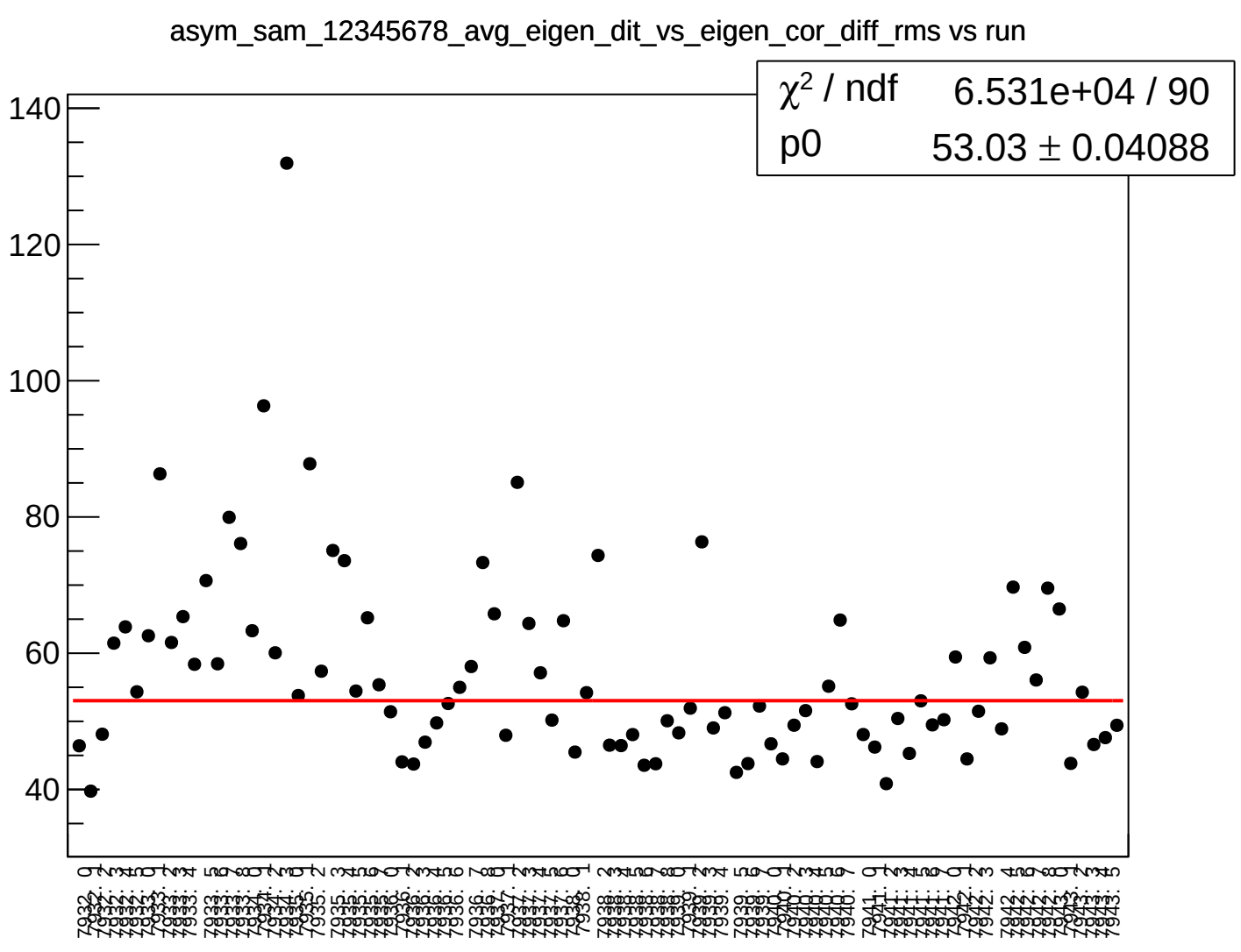

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.09 / 90
p0 2.487e−06 ± 3.307e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 47.18
Std Dev 43.01
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01102
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

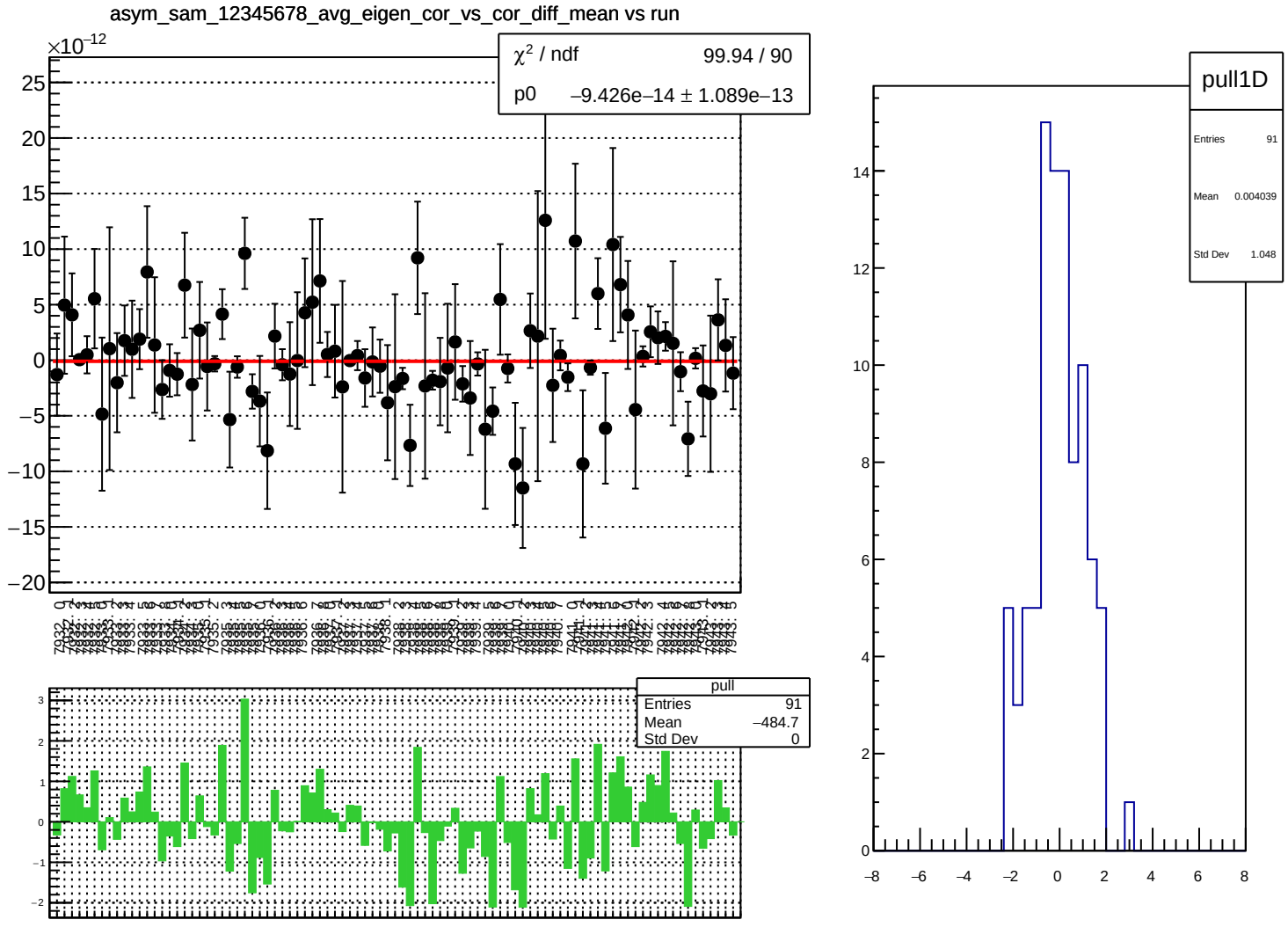

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1421 / 90
p0 0.003091 ± 2.339e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028

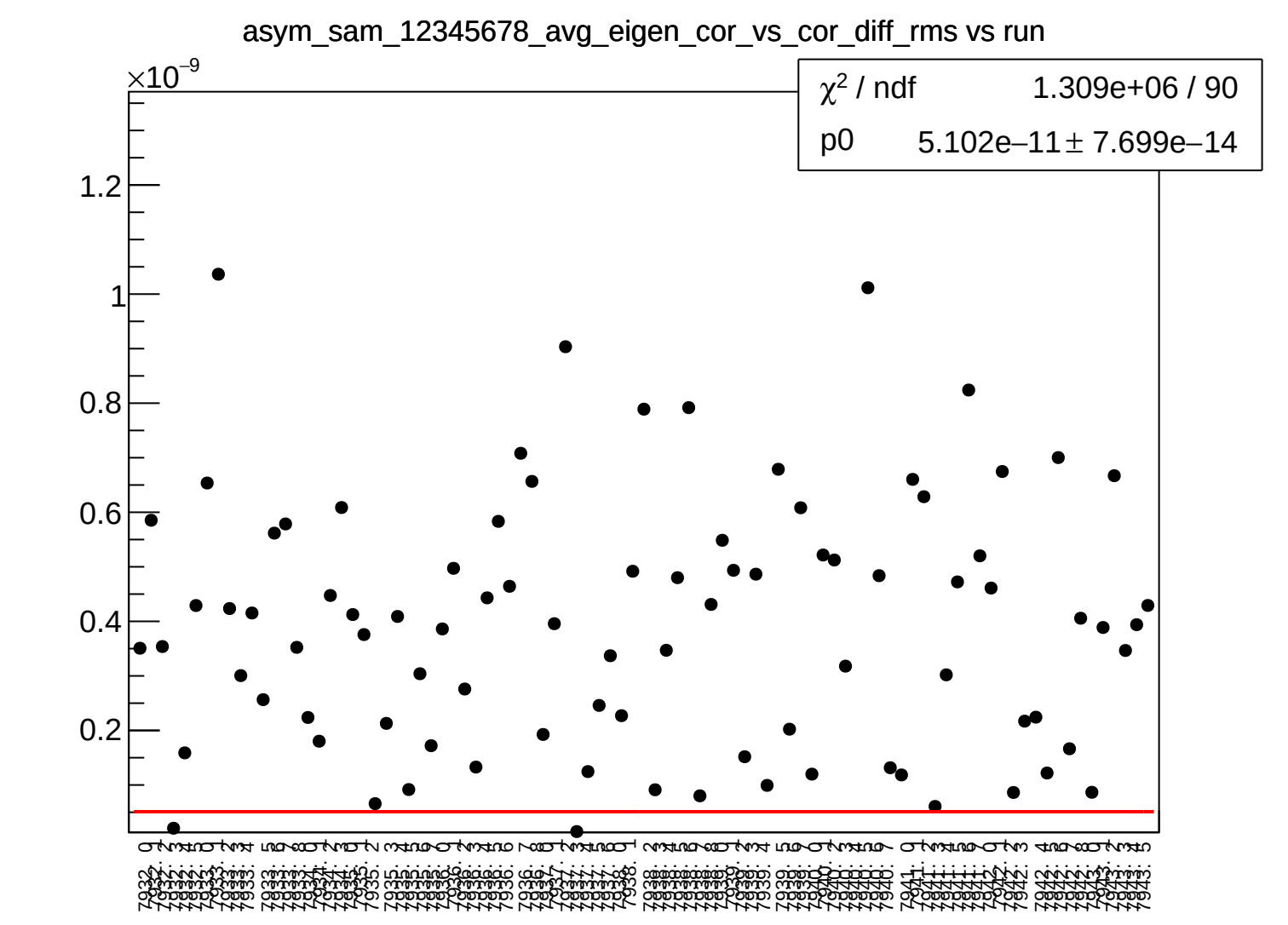

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119 / 90
p0 0.03526 ± 0.05781
pull
Entries 91
Mean −759.4
Std Dev 0
pull1D
Entries 91
Mean 0.004344
Std Dev 1.144

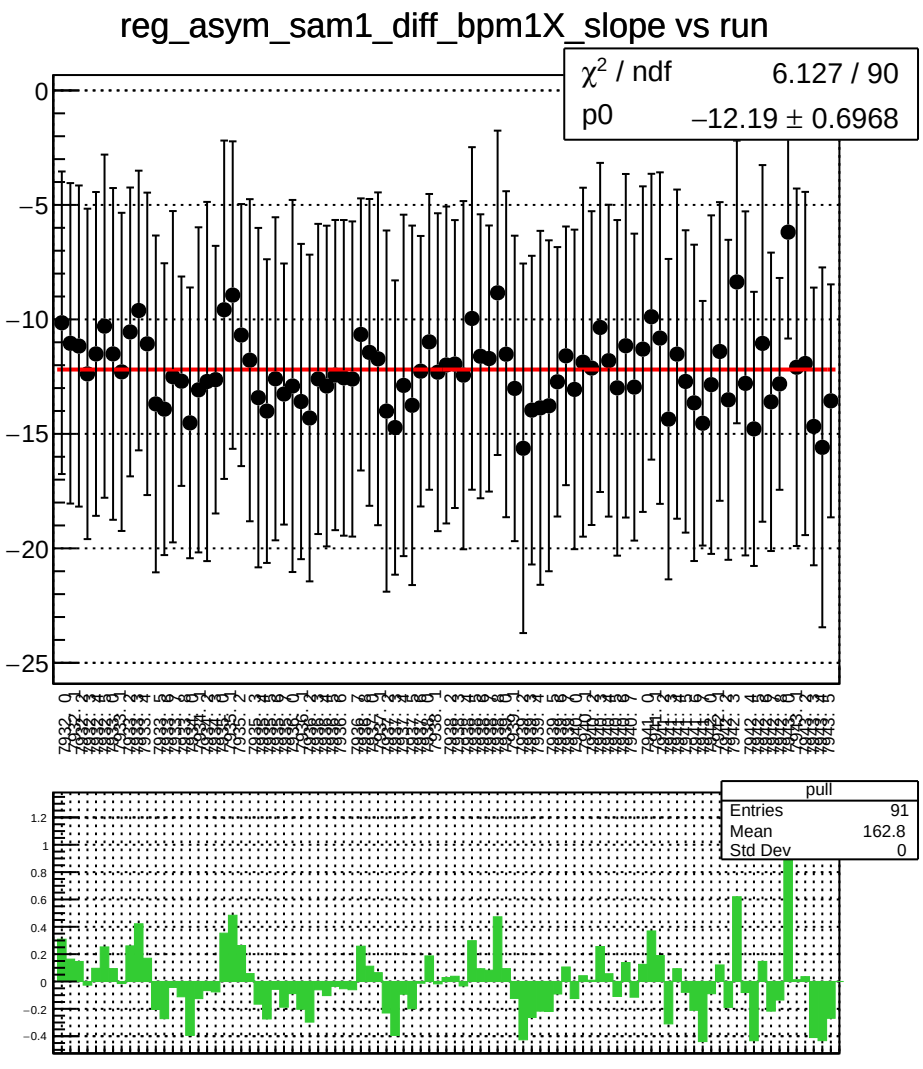

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.531e+04 / 90
p0 53.03 ± 0.04088
140
120
100
80
60
40

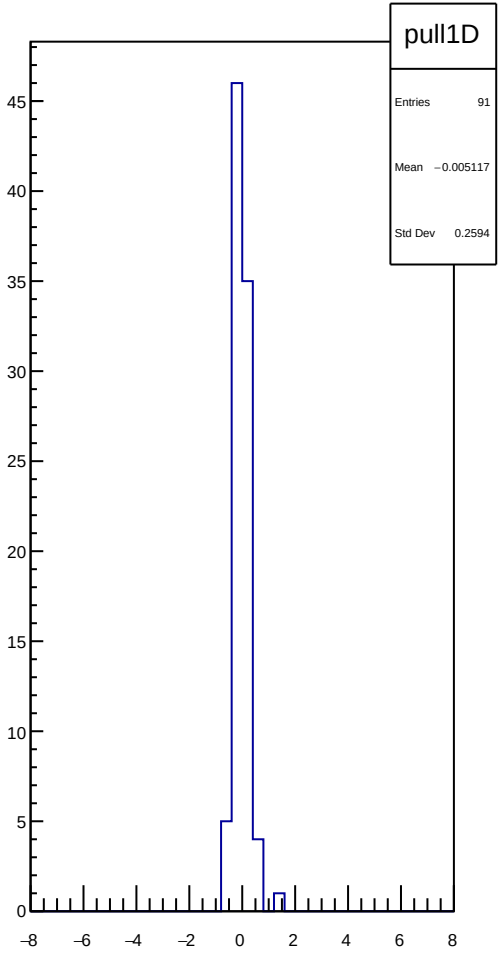

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119 / 90
p0 0.03526 ± 0.05781
pull
Entries 91
Mean −759.4
Std Dev 0
pull1D
Entries 91
Mean 0.004344
Std Dev 1.144

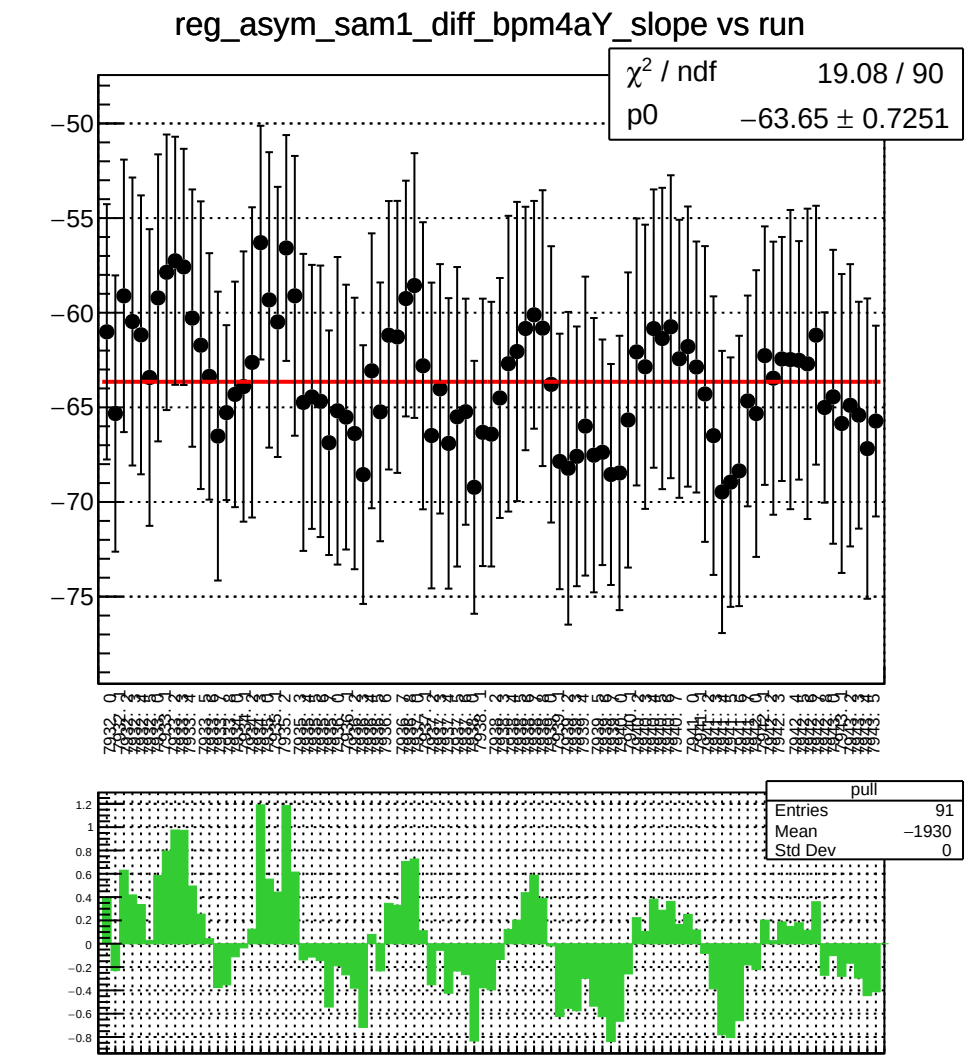

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.531e+04 / 90
p0 53.03 ± 0.04088
140
120
100
80
60
40

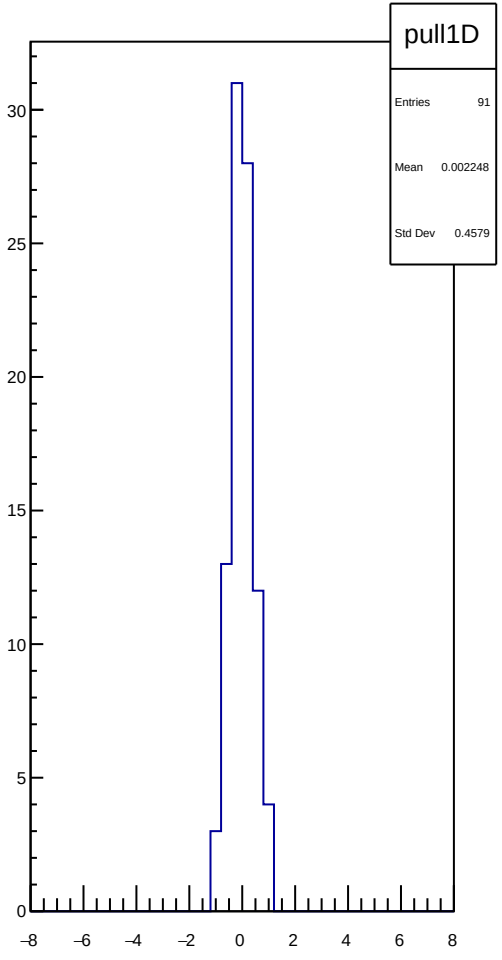

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.94 / 90
p0 −9.426e−14 ± 1.089e−13
pull
Entries 91
Mean −484.7
Std Dev 0
pull1D
Entries 91
Mean 0.004039
Std Dev 1.048

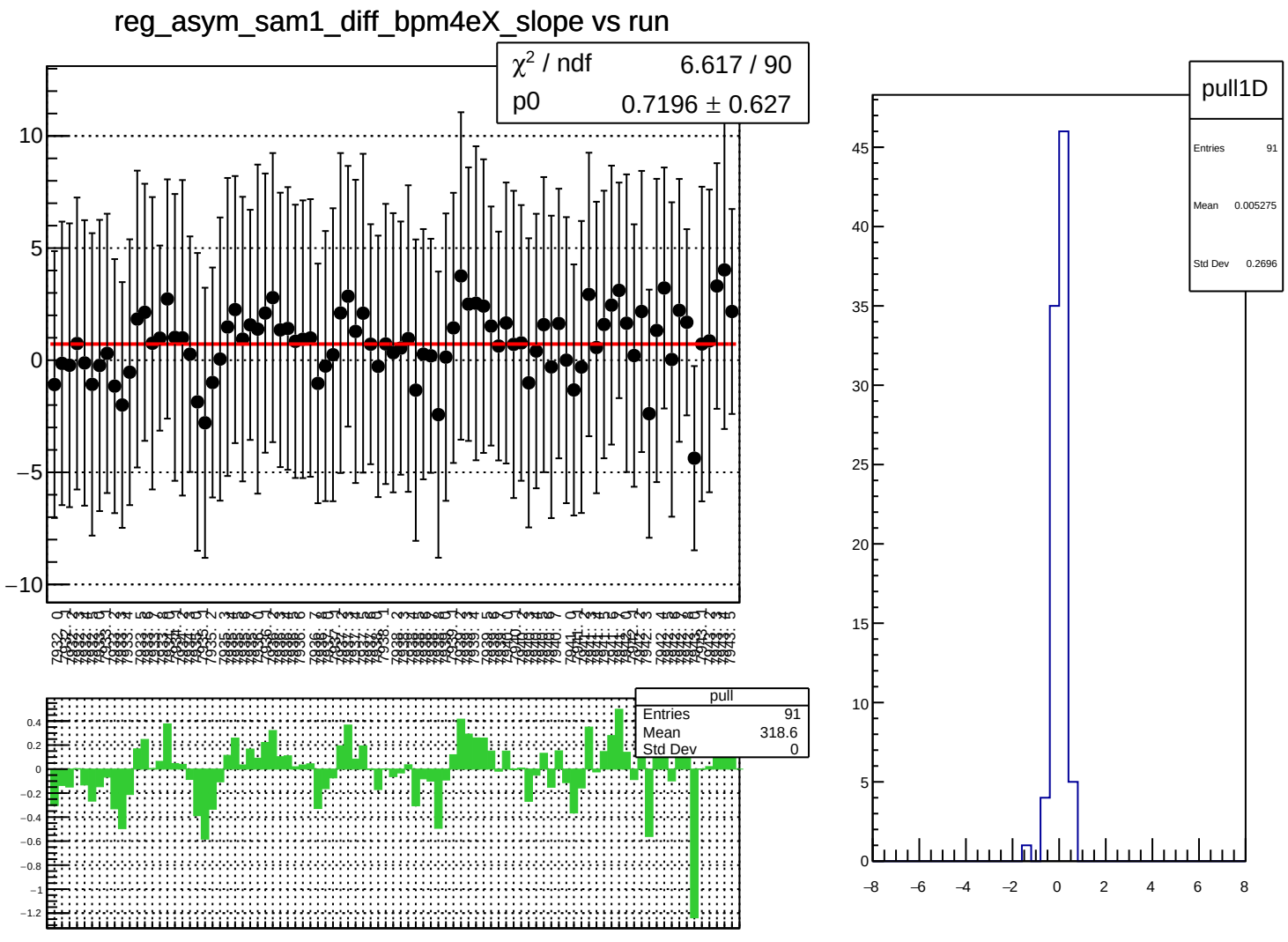

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.309e+06 / 90
p0 5.102e−11 ± 7.699e−14
1.2
1
0.8
0.6
0.4
0.2

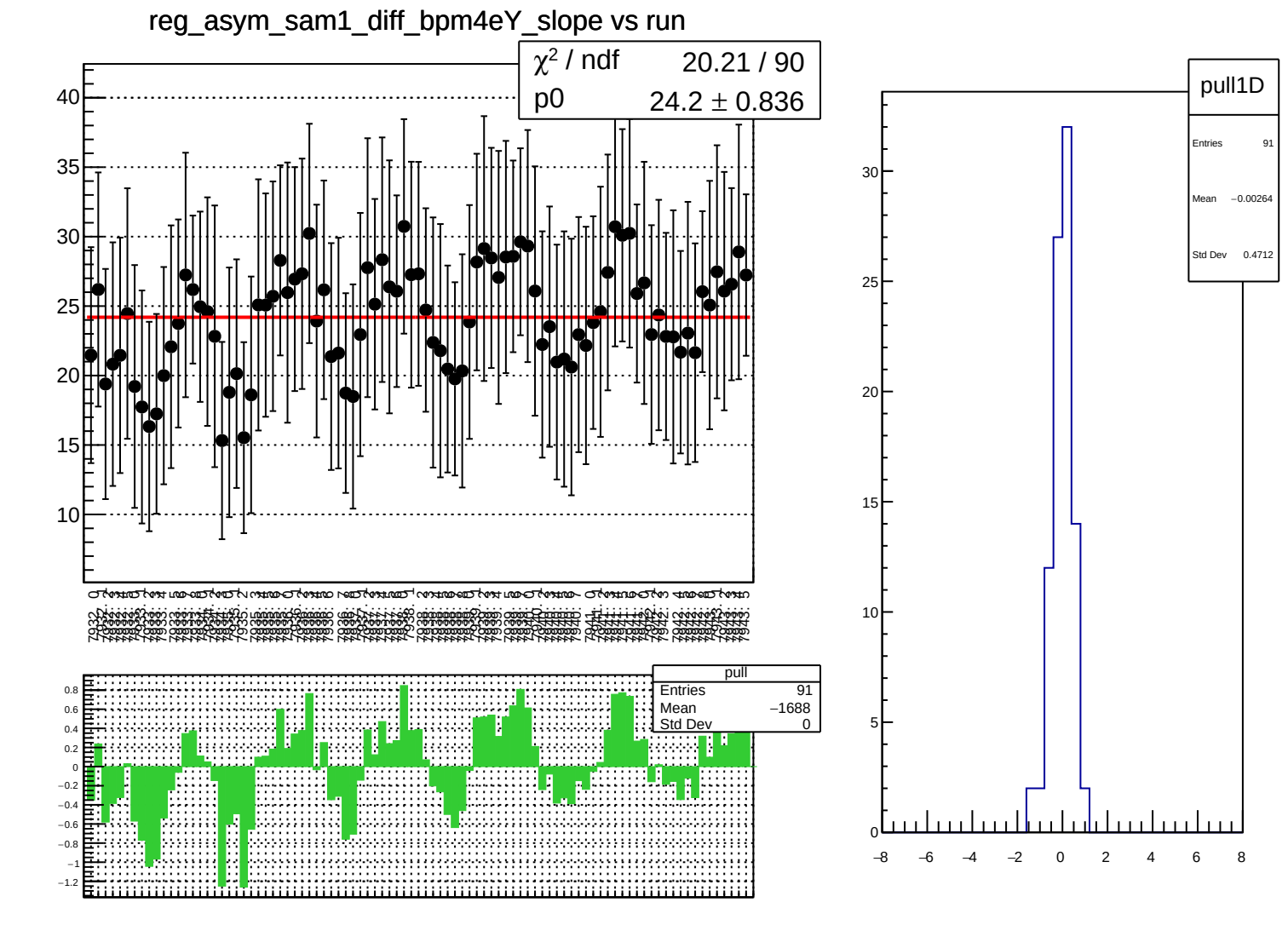

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 6.127 / 90
p0 −12.19 ± 0.6968
pull
Entries 91
Mean 162.8
Std Dev 0

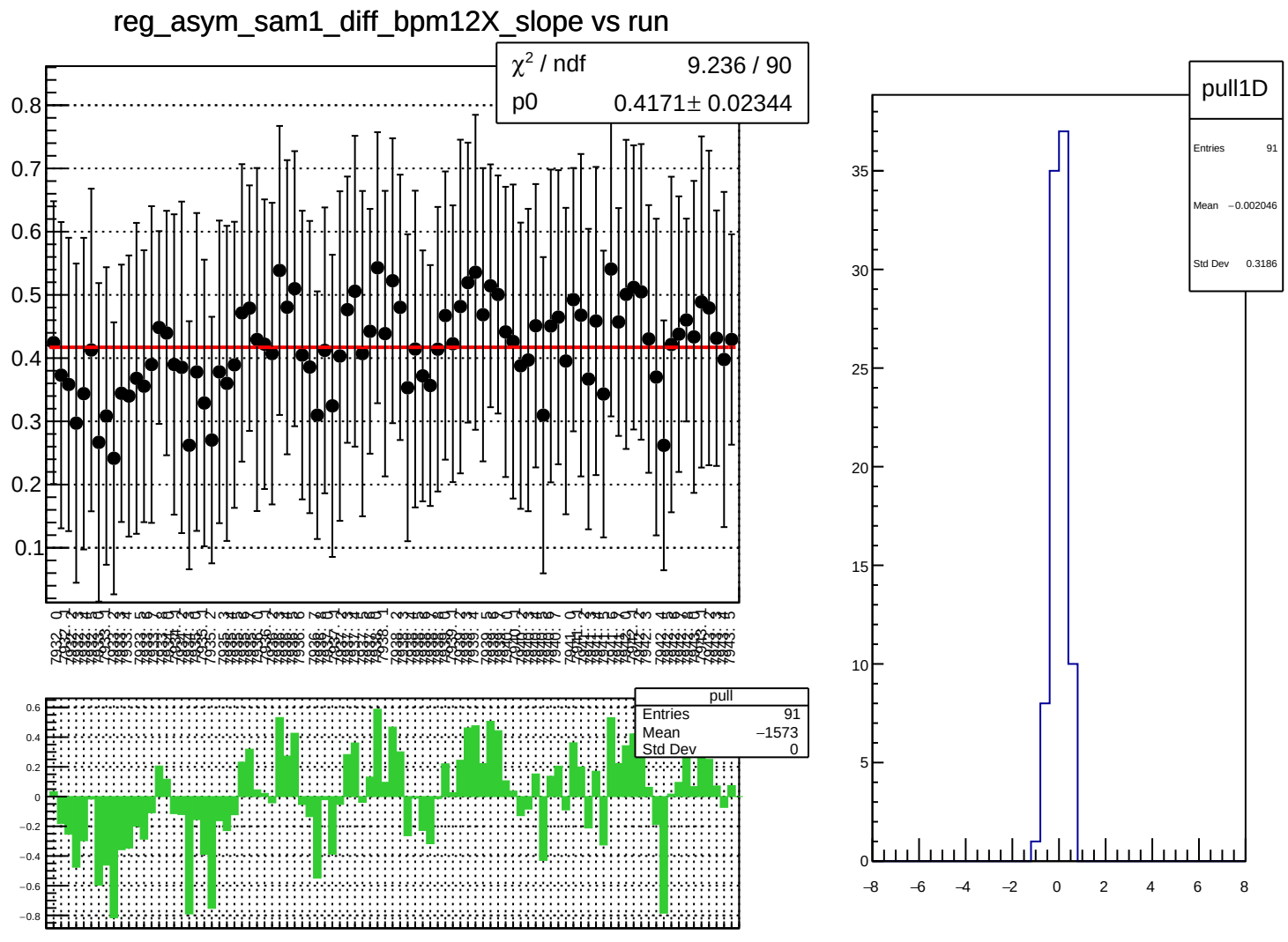

pull1D
Entries 91
Mean −0.005117
Std Dev 0.2594

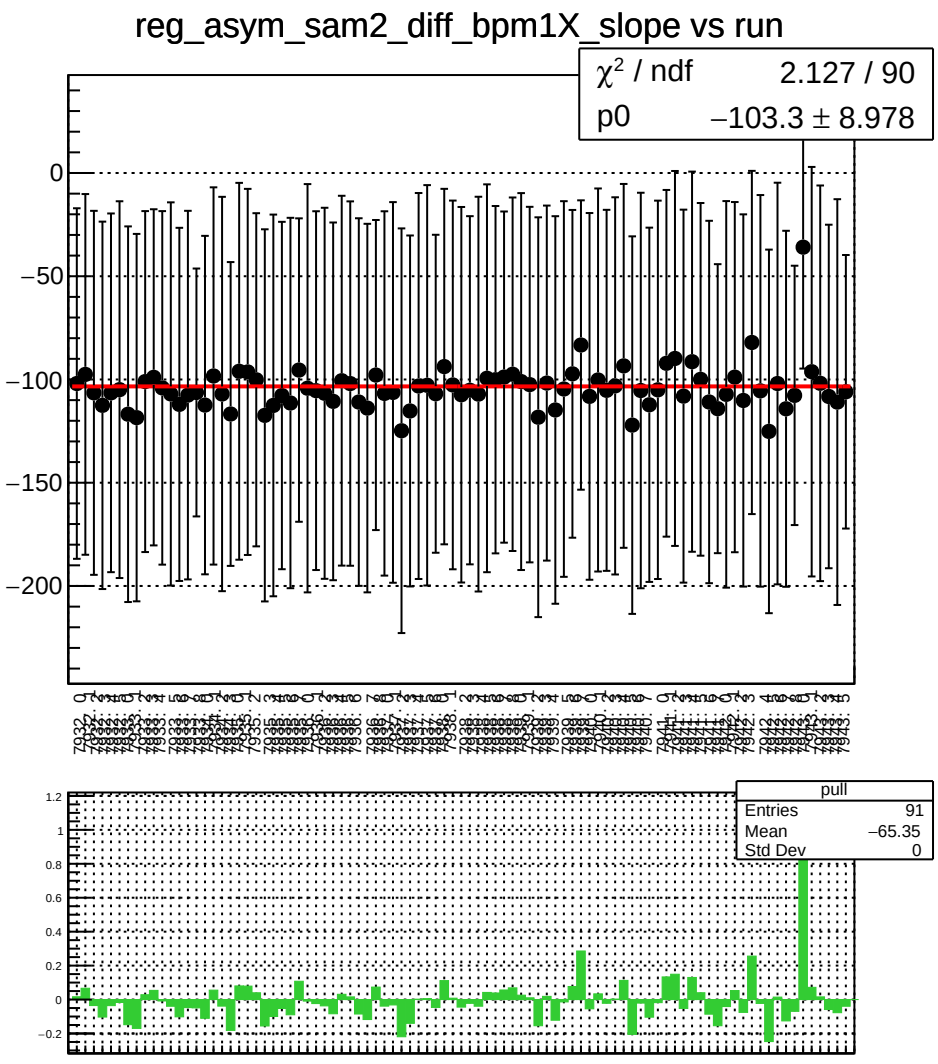

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 19.08 / 90
p0 −63.65 ± 0.7251
pull
Entries 91
Mean −1930
Std Dev 0

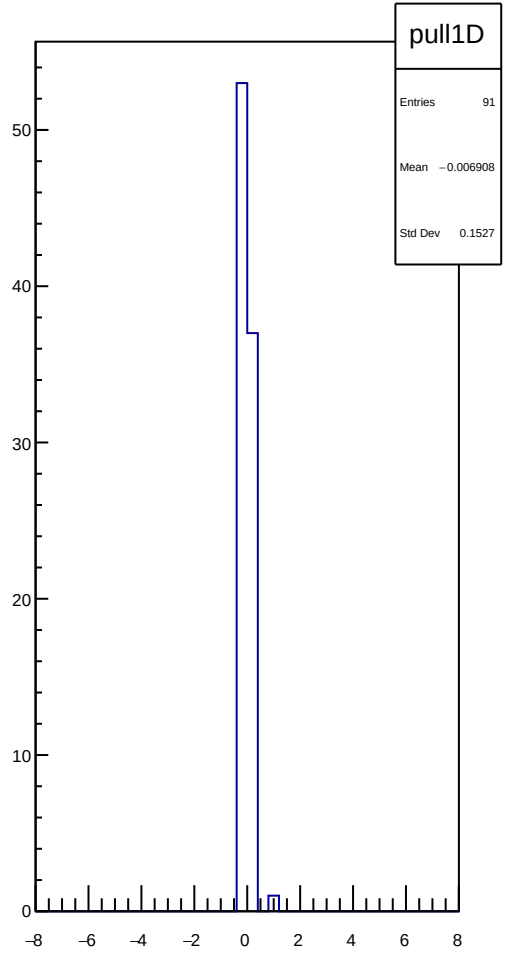

pull1D
Entries 91
Mean 0.002248
Std Dev 0.4579

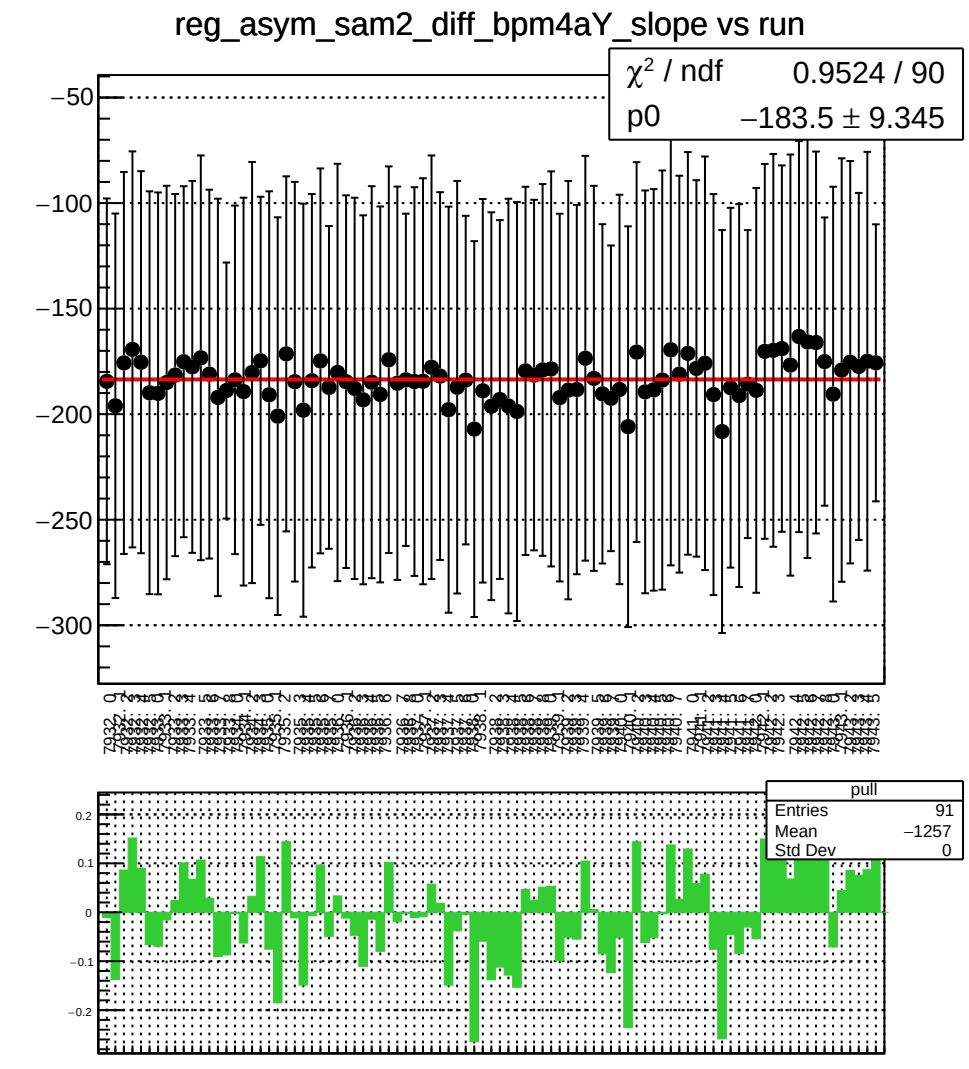

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.617 / 90
p0 0.7196 ± 0.627
pull
Entries 91
Mean 318.6
Std Dev 0
pull1D
Entries 91
Mean 0.005275
Std Dev 0.2696

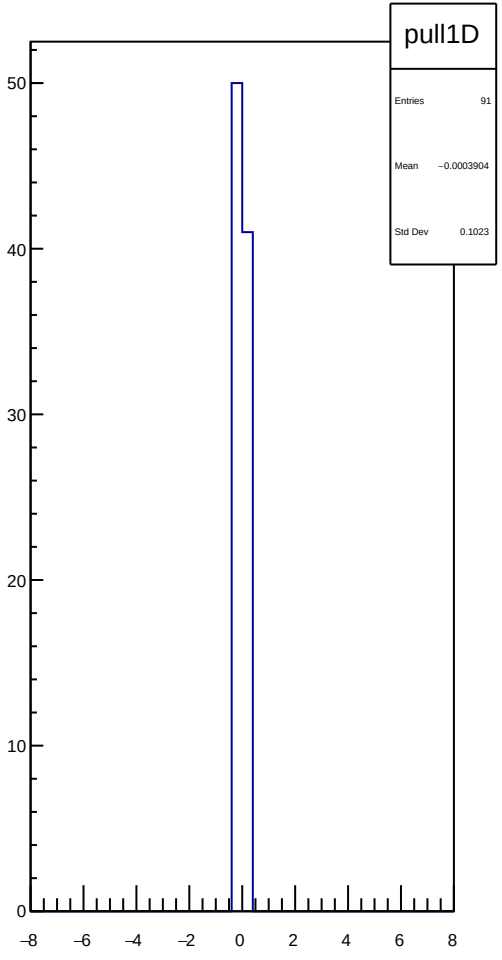

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 20.21 / 90
p0 24.2 ± 0.836
pull
Entries 91
Mean −1688
Std Dev 0
pull1D
Entries 91
Mean −0.00264
Std Dev 0.4712

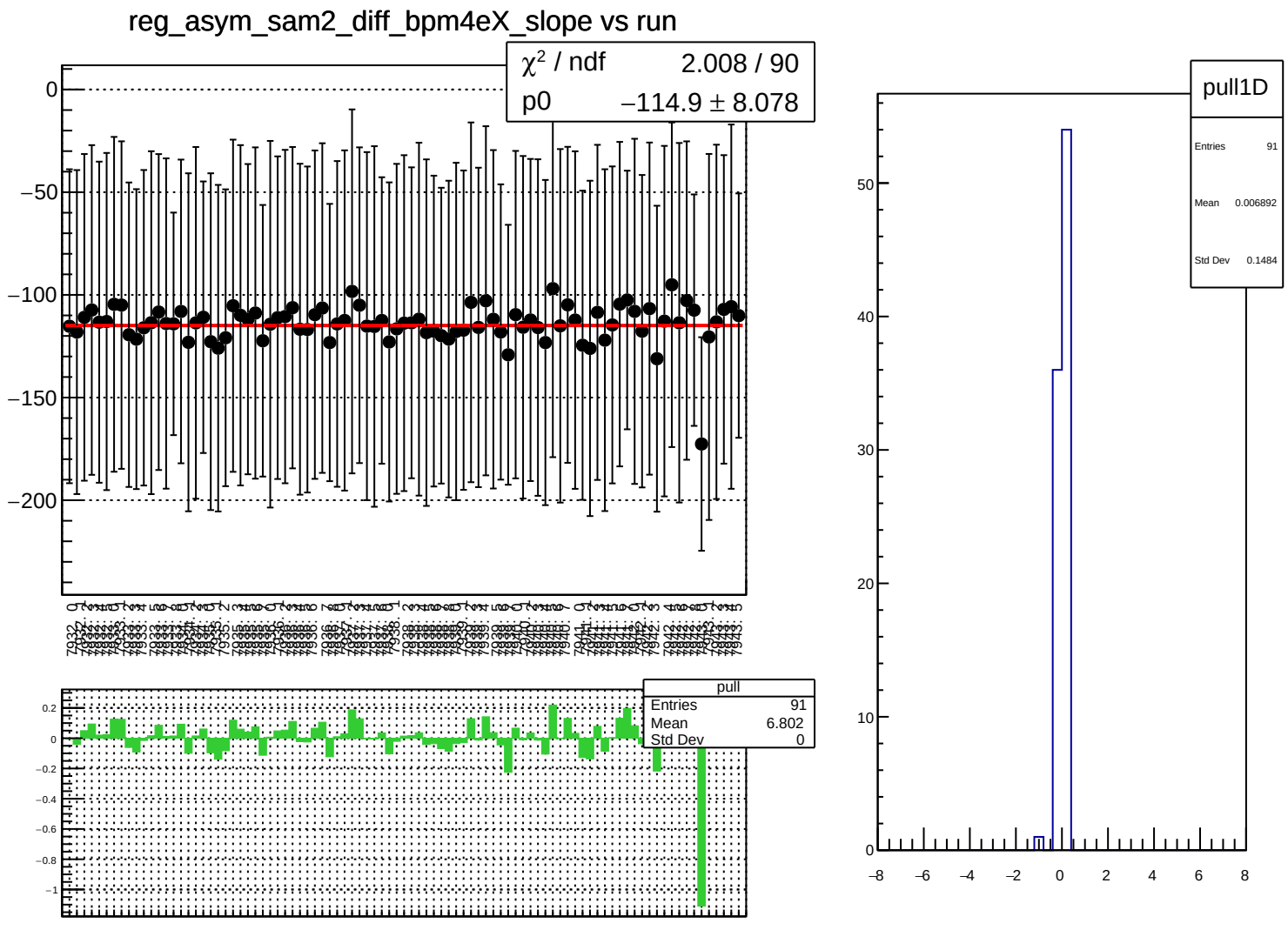

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 9.236 / 90
p0 0.4171± 0.02344
pull
Entries 91
Mean −1573
Std Dev 0
pull1D
Entries 91
Mean −0.002046
Std Dev 0.3186

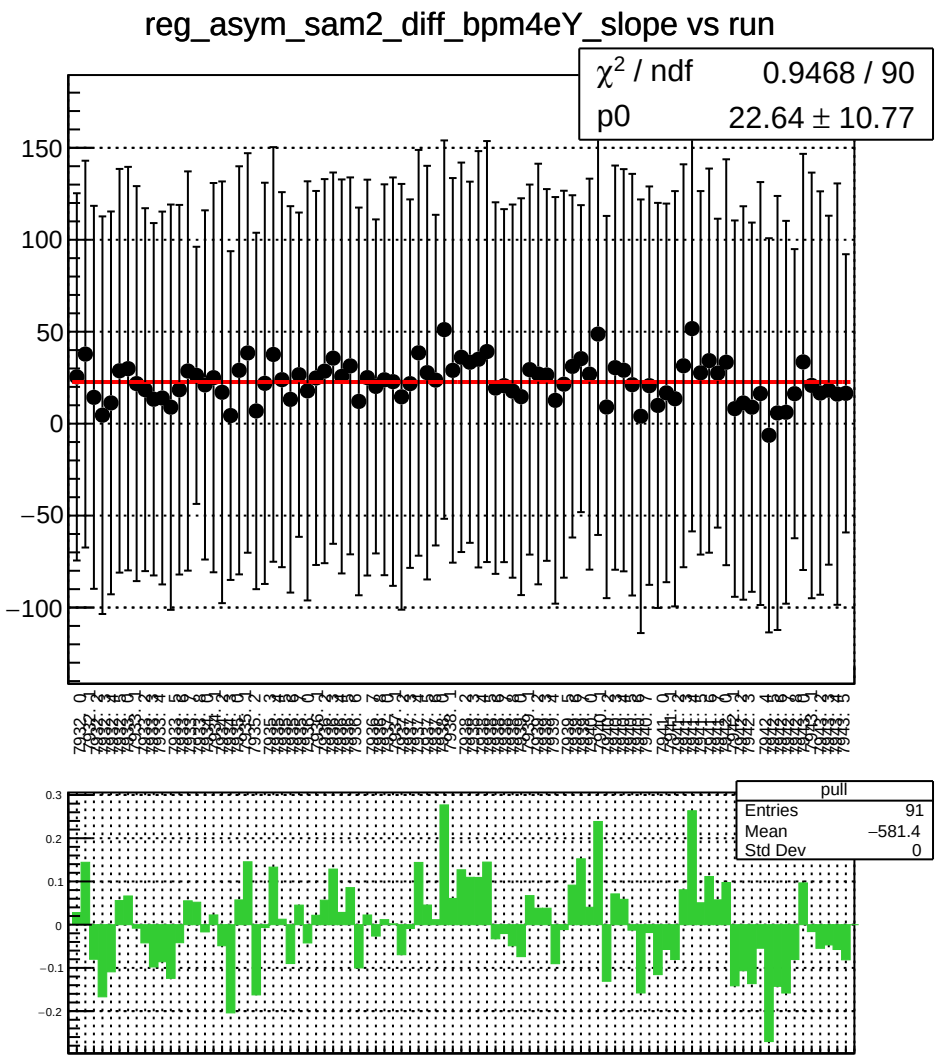

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.127 / 90
p0 −103.3 ± 8.978
0
−50
−100
−150
−200
pull
Entries 91
Mean −65.35
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2

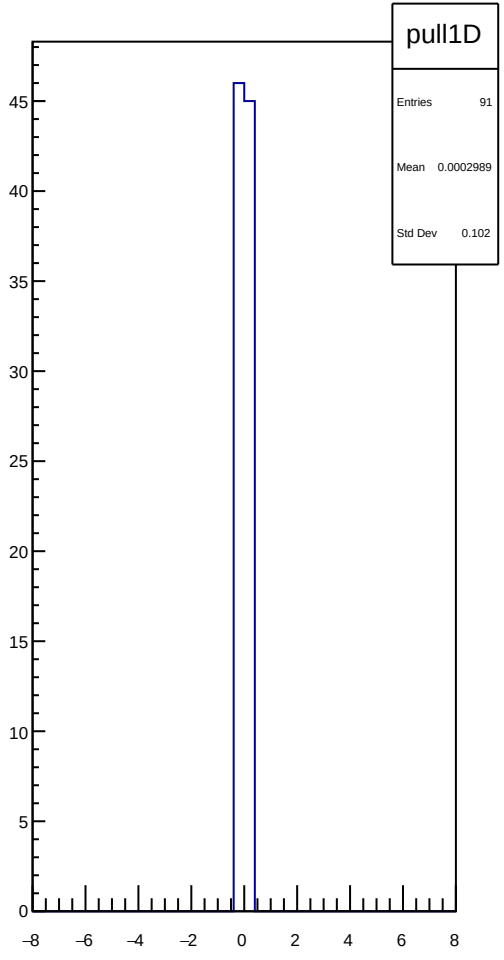

pull1D
Entries 91
Mean −0.006908
Std Dev 0.1527
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

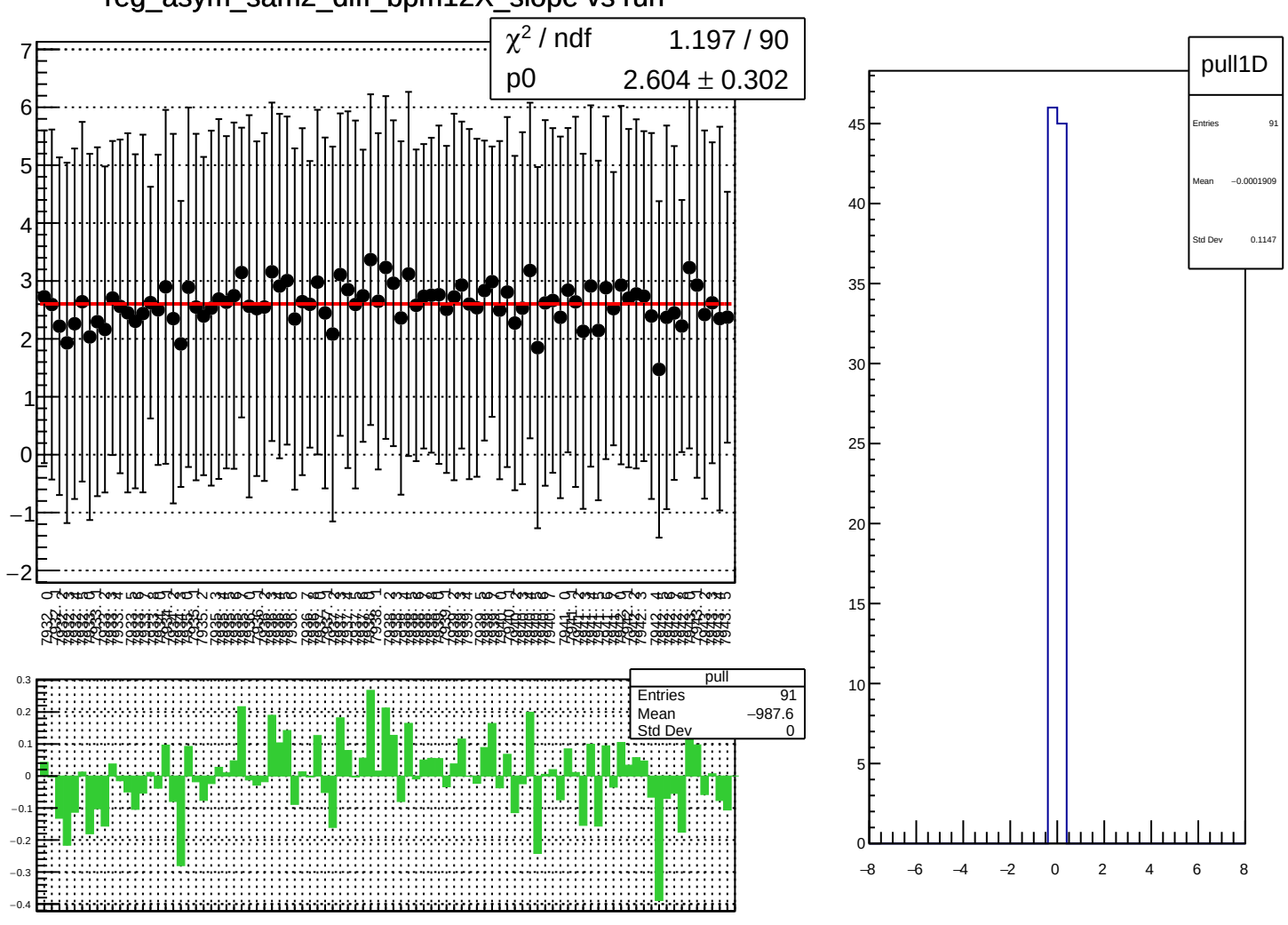

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.9524 / 90
p0 −183.5 ± 9.345
pull
Entries 91
Mean −1257
Std Dev 0

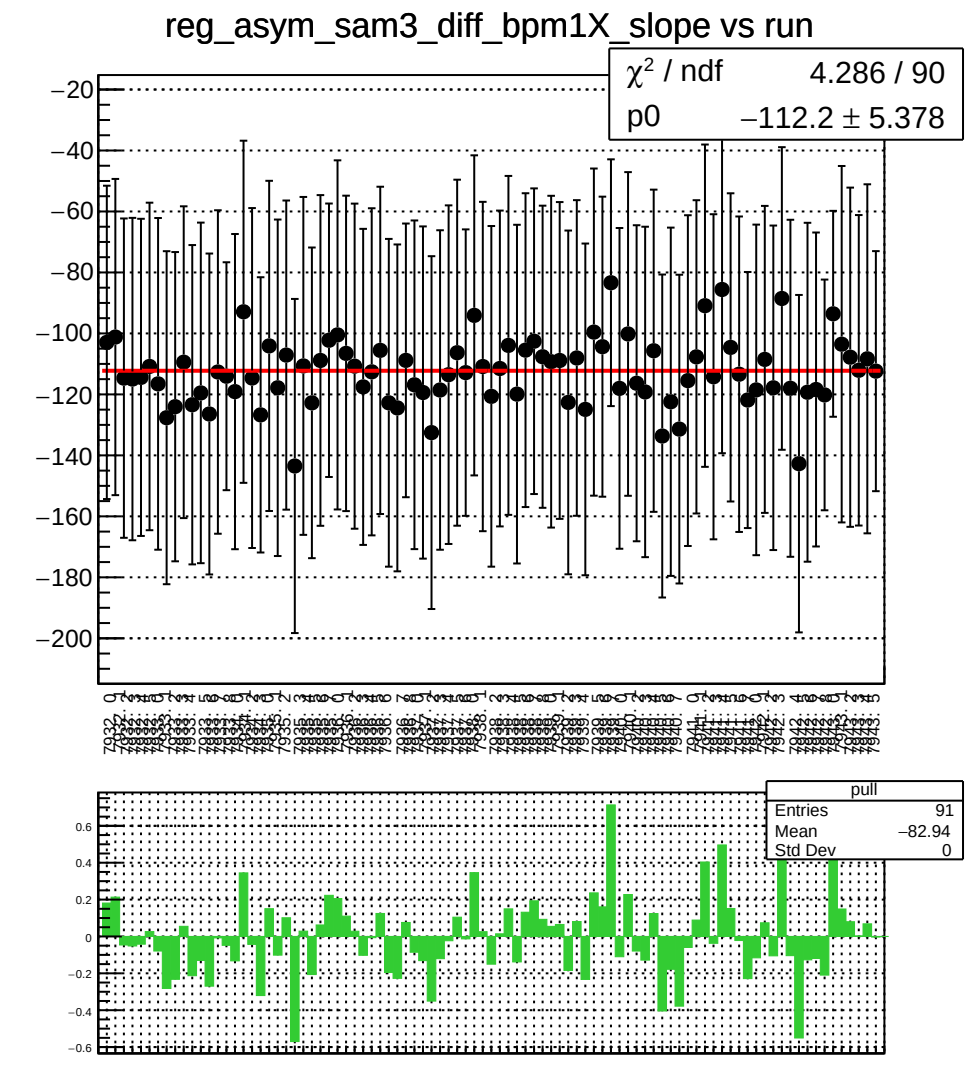

pull1D
Entries 91
Mean −0.0003904
Std Dev 0.1023

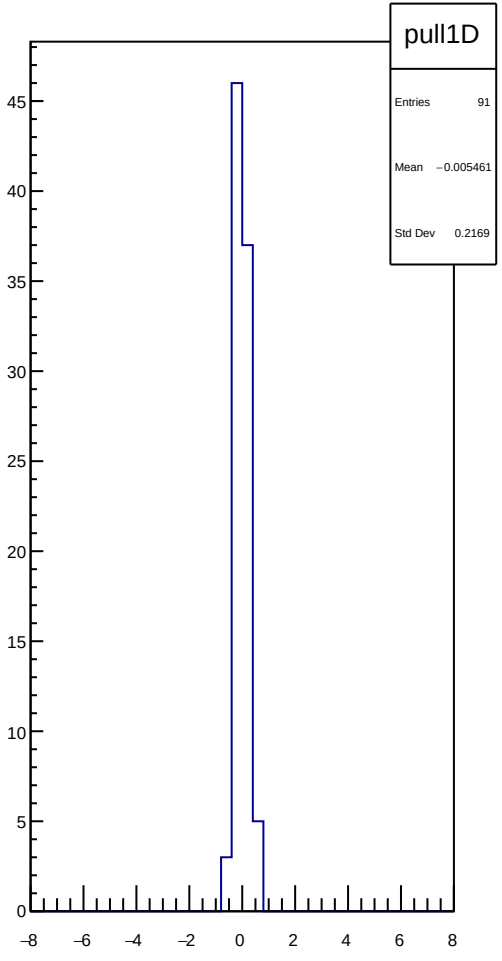

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.008 / 90
p0 −114.9 ± 8.078
pull
Entries 91
Mean 6.802
Std Dev 0
pull1D
Entries 91
Mean 0.006892
Std Dev 0.1484

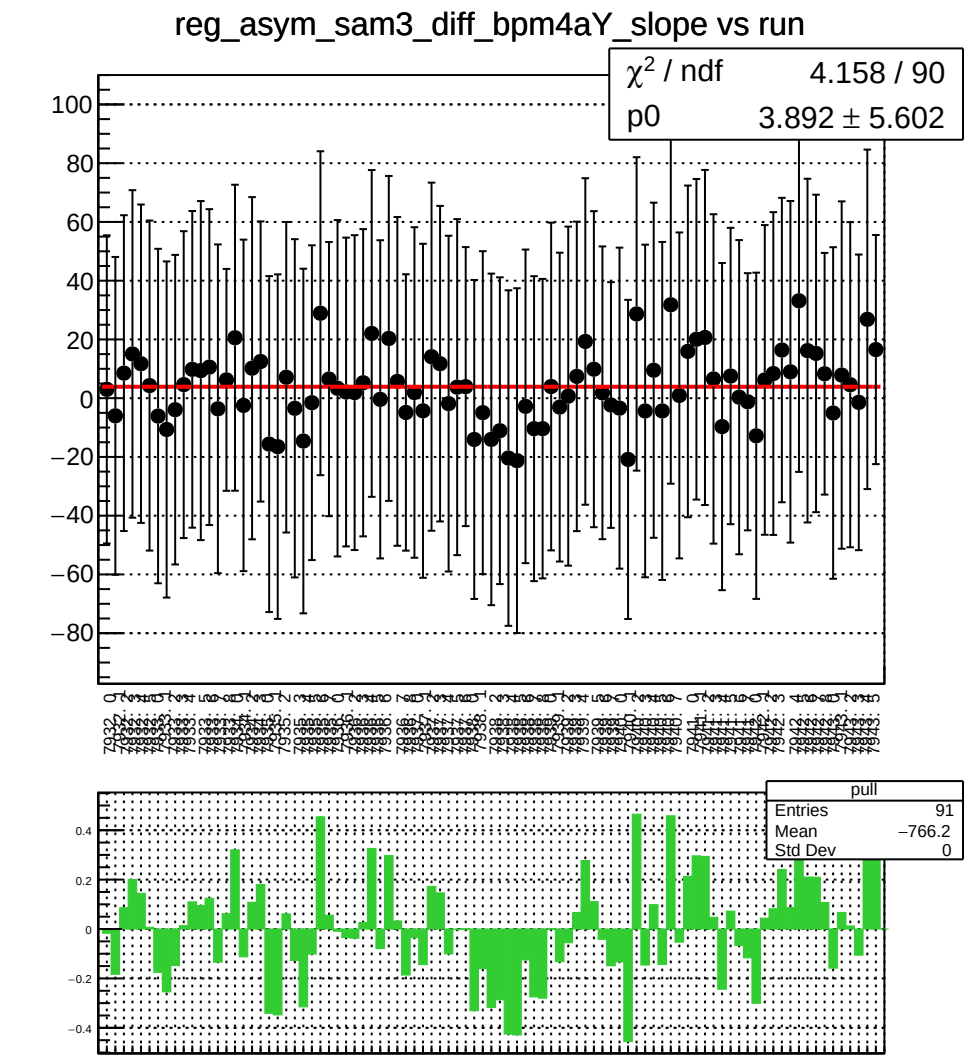

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.9468 / 90
p0 22.64 ± 10.77
150
100
50
0
−50
−100
pull
Entries 91
Mean −581.4
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

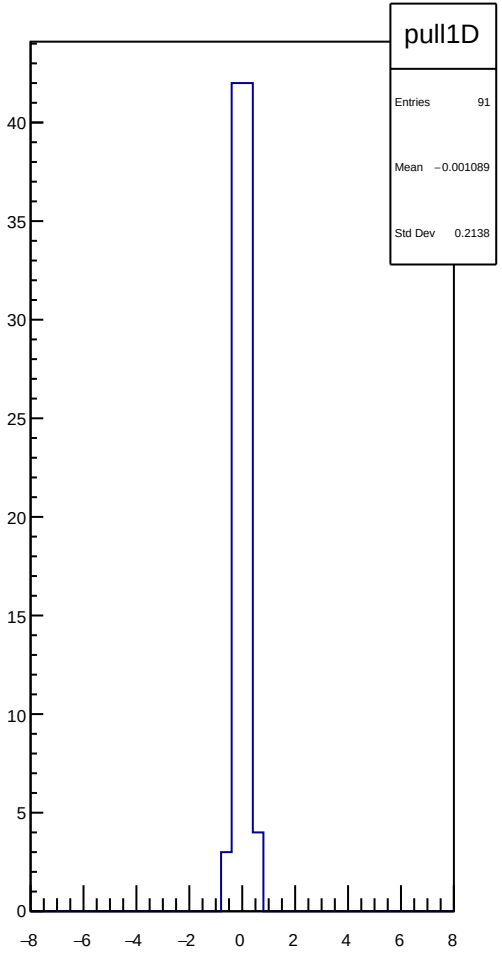

pull1D
Entries 91
Mean 0.0002989
Std Dev 0.102
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

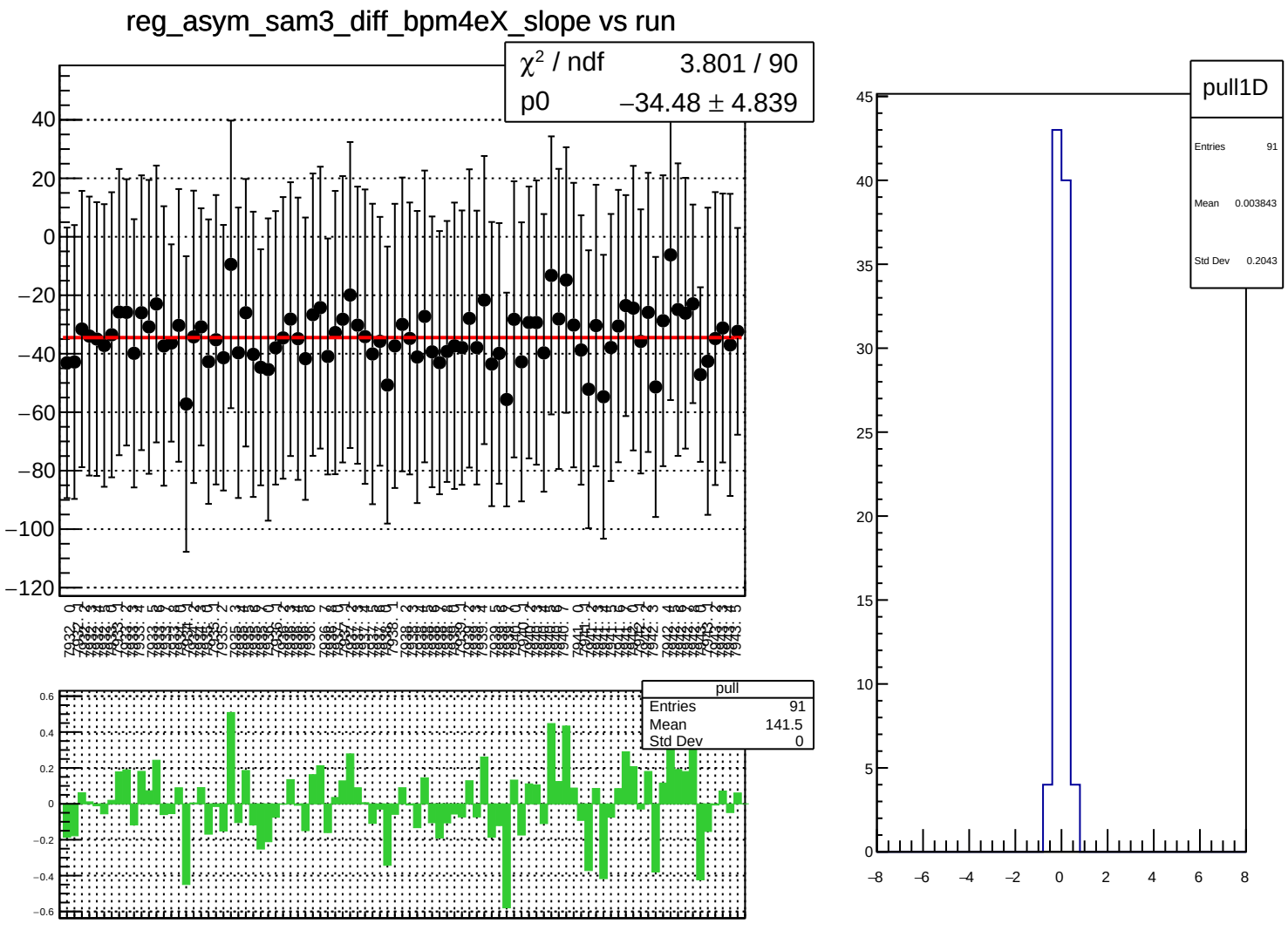

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.197 / 90
p0 2.604 ± 0.302
pull
Entries 91
Mean −987.6
Std Dev 0
pull1D
Entries 91
Mean −0.0001909
Std Dev 0.1147

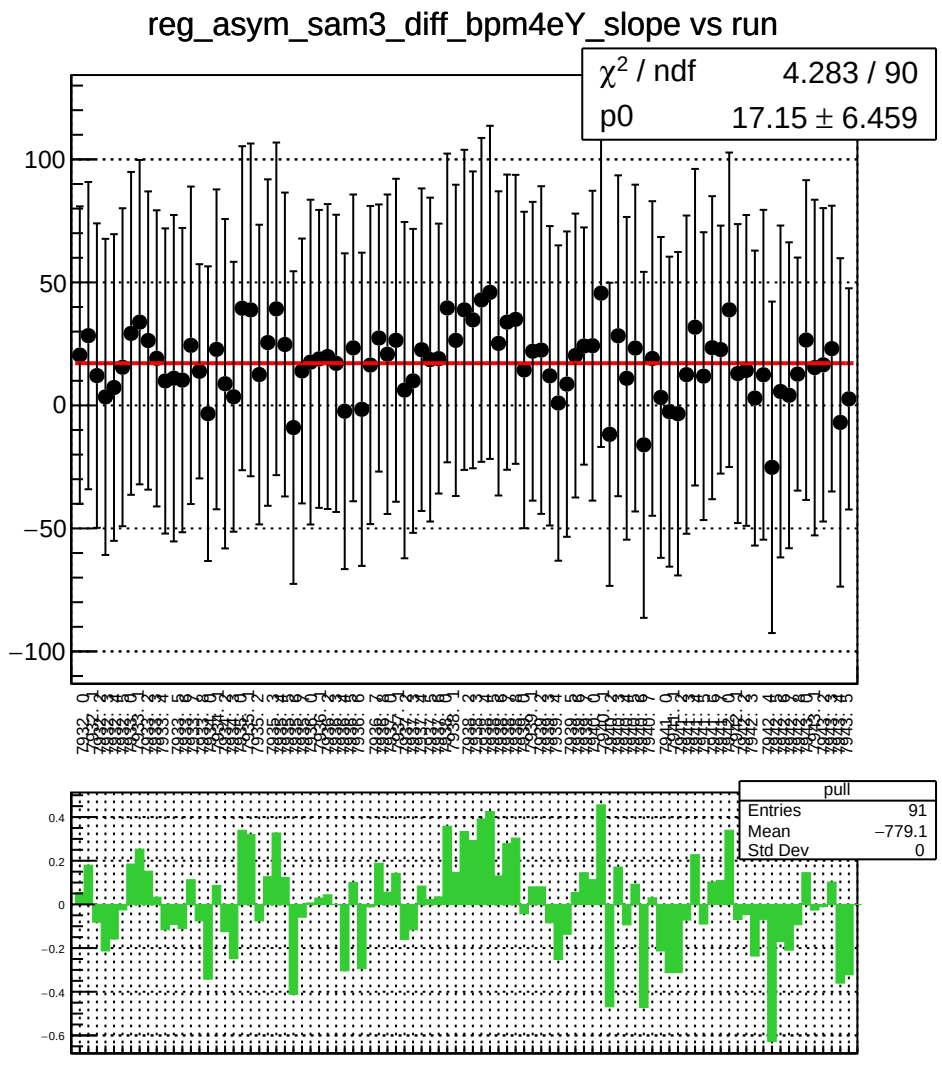

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 4.286 / 90
p0 −112.2 ± 5.378
pull
Entries 91
Mean −82.94
Std Dev 0

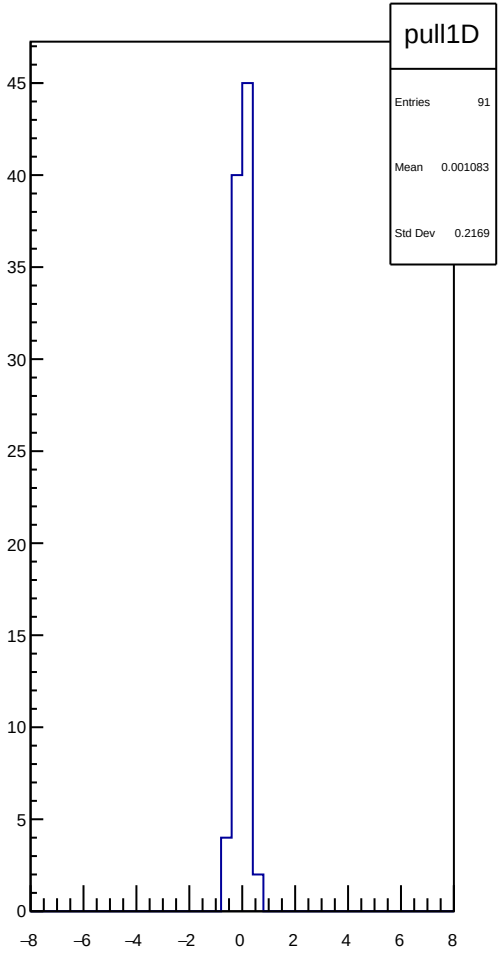

pull1D
Entries 91
Mean −0.005461
Std Dev 0.2169

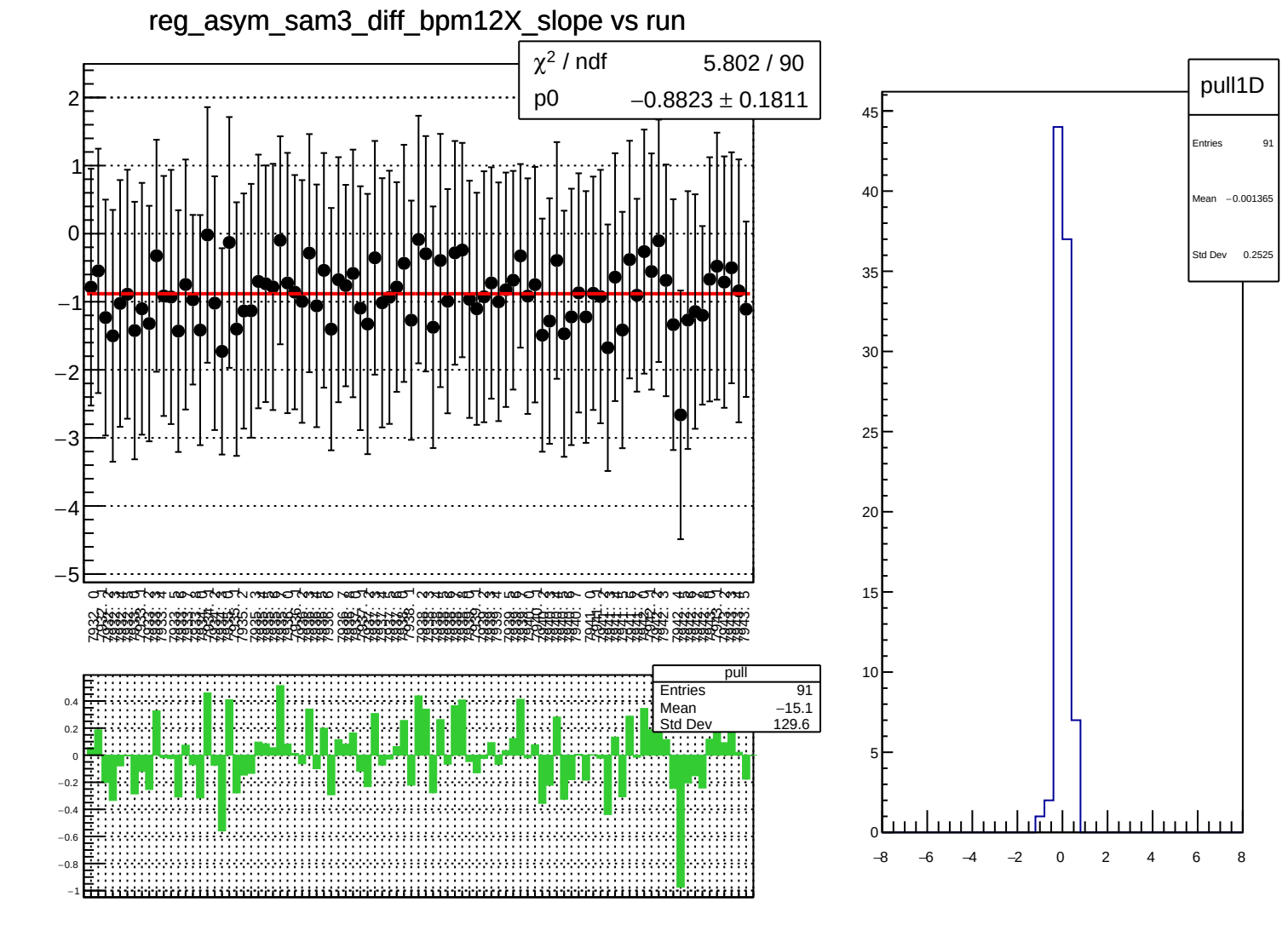

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.158 / 90
p0 3.892 ± 5.602
pull
Entries 91
Mean −766.2
Std Dev 0

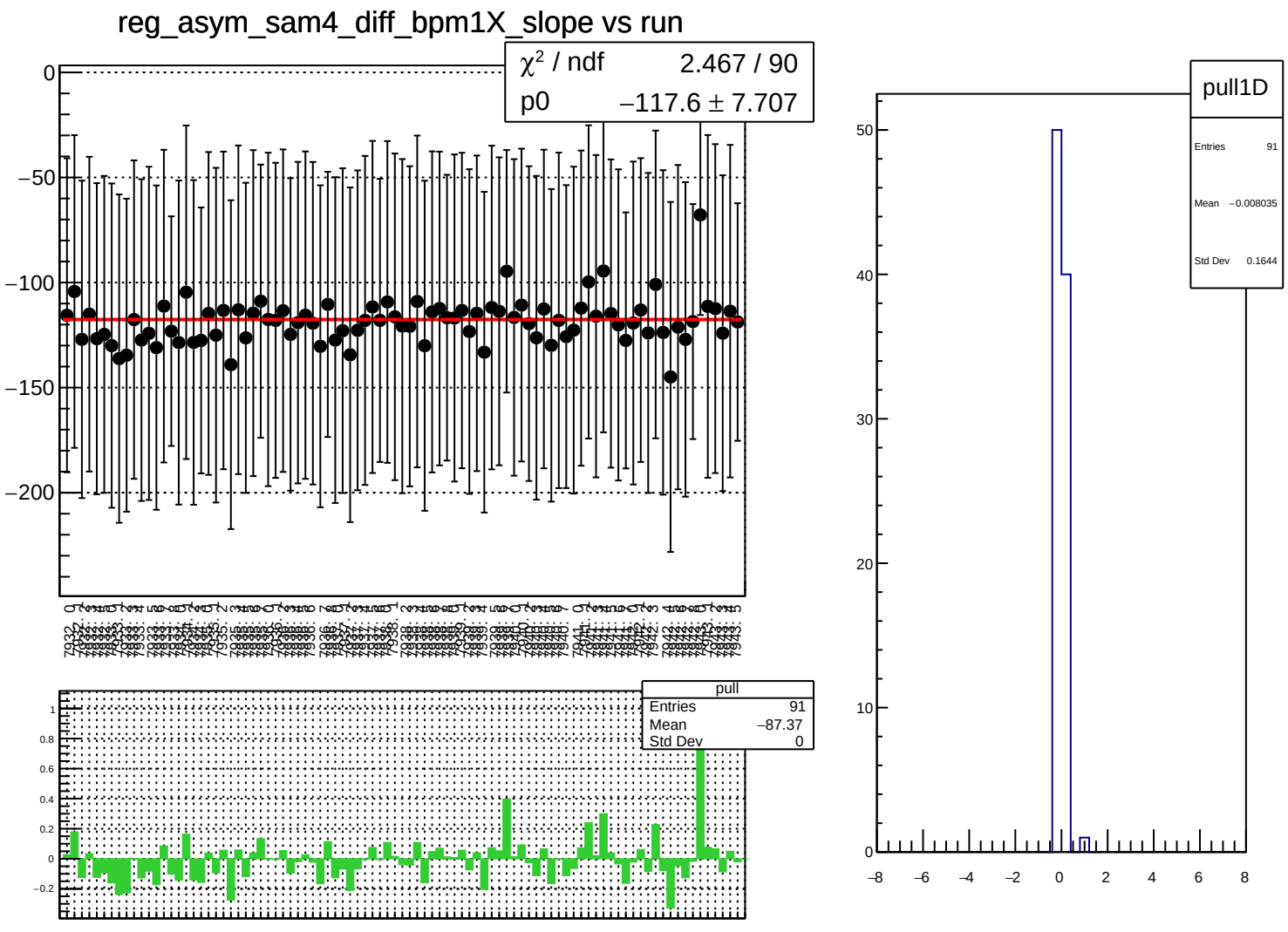

pull1D
Entries 91
Mean −0.001089
Std Dev 0.2138

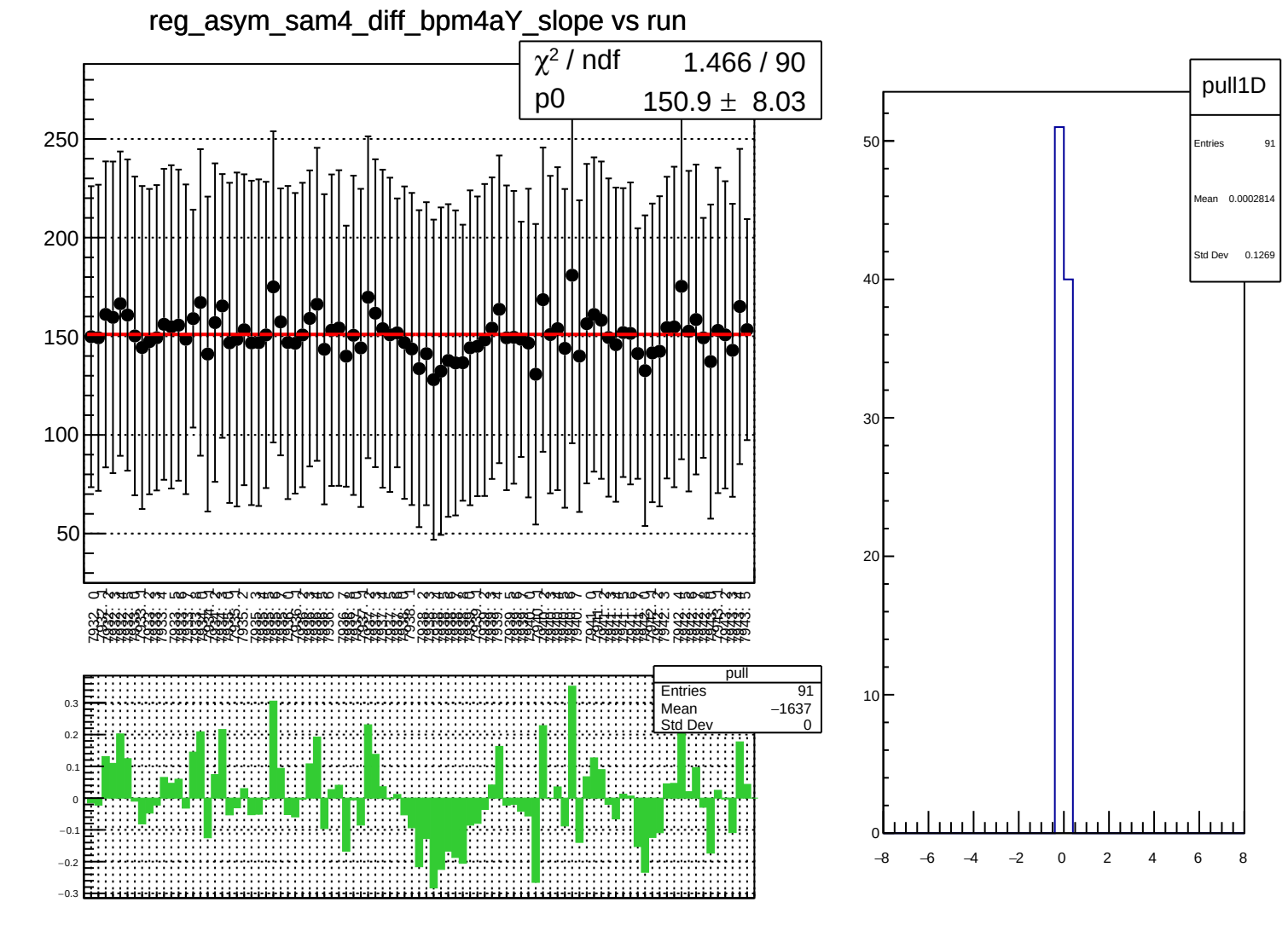

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 3.801 / 90
p0 −34.48 ± 4.839
pull
Entries 91
Mean 141.5
Std Dev 0
pull1D
Entries 91
Mean 0.003843
Std Dev 0.2043

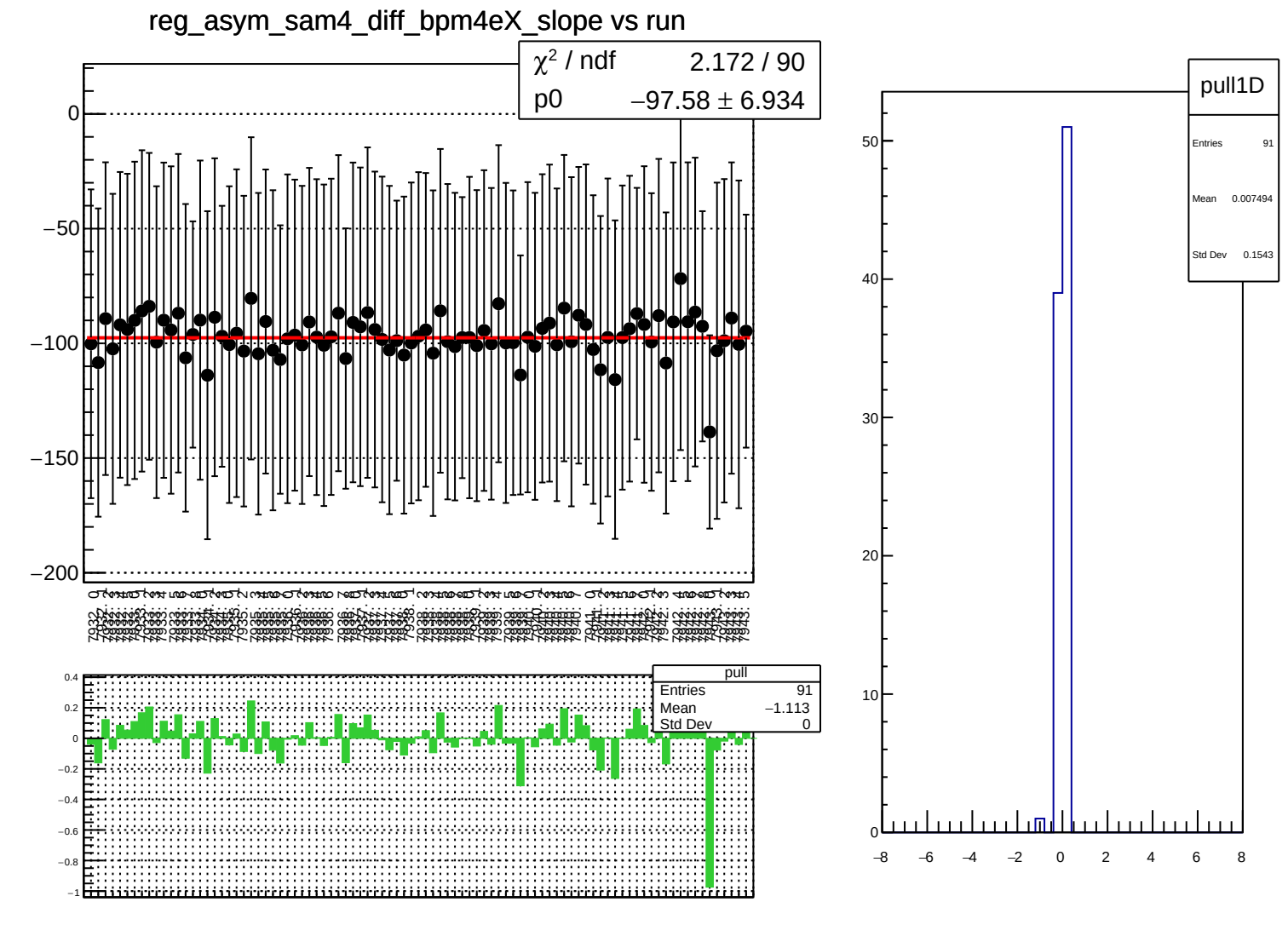

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.283 / 90
p0 17.15 ± 6.459
pull
Entries 91
Mean −779.1
Std Dev 0

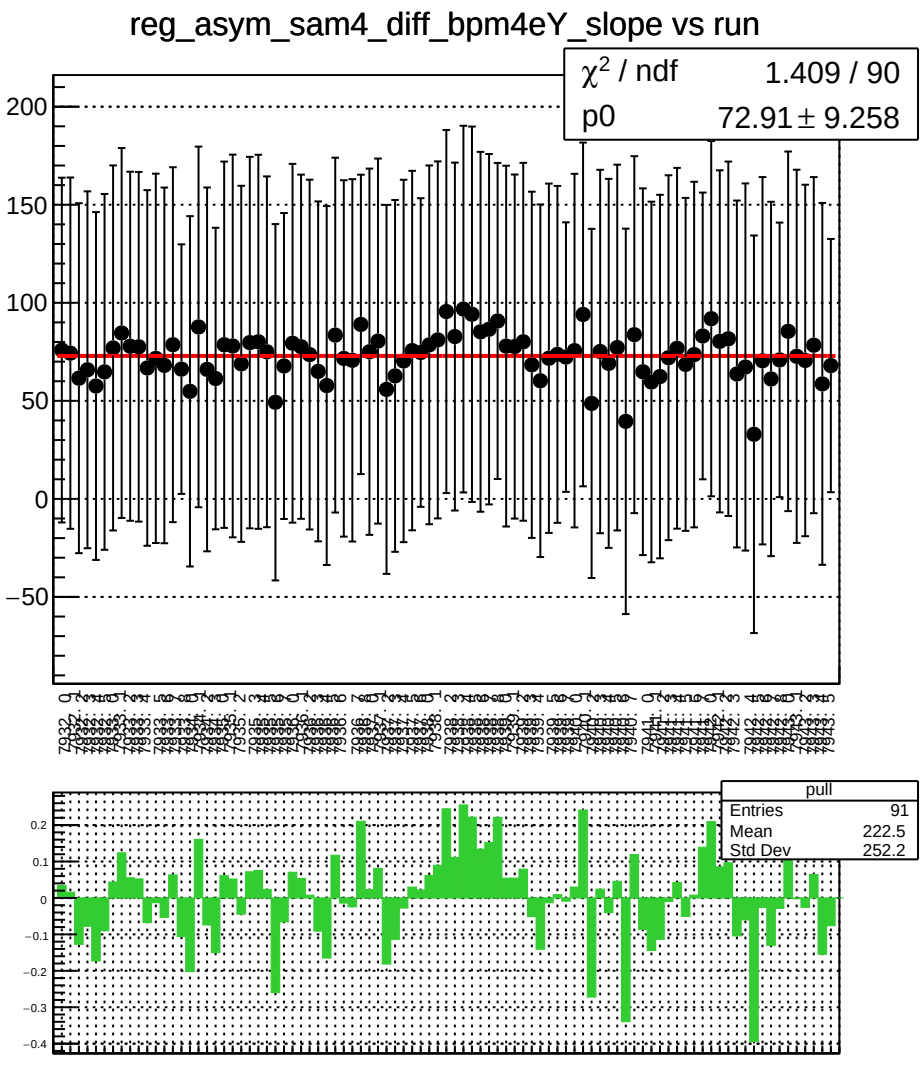

pull1D
Entries 91
Mean 0.001083
Std Dev 0.2169

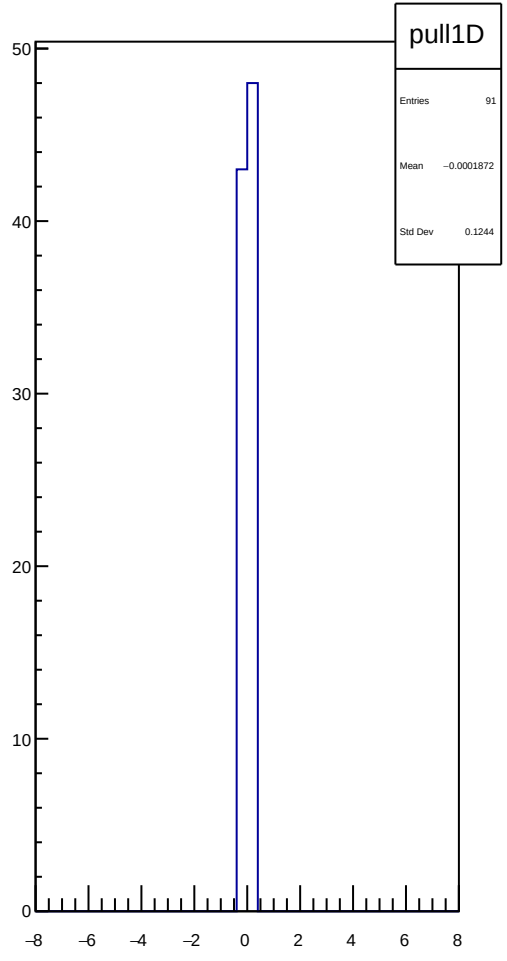

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 5.802 / 90
p0 −0.8823 ± 0.1811
pull
Entries 91
Mean −15.1
Std Dev 129.6
pull1D
Entries 91
Mean −0.001365
Std Dev 0.2525

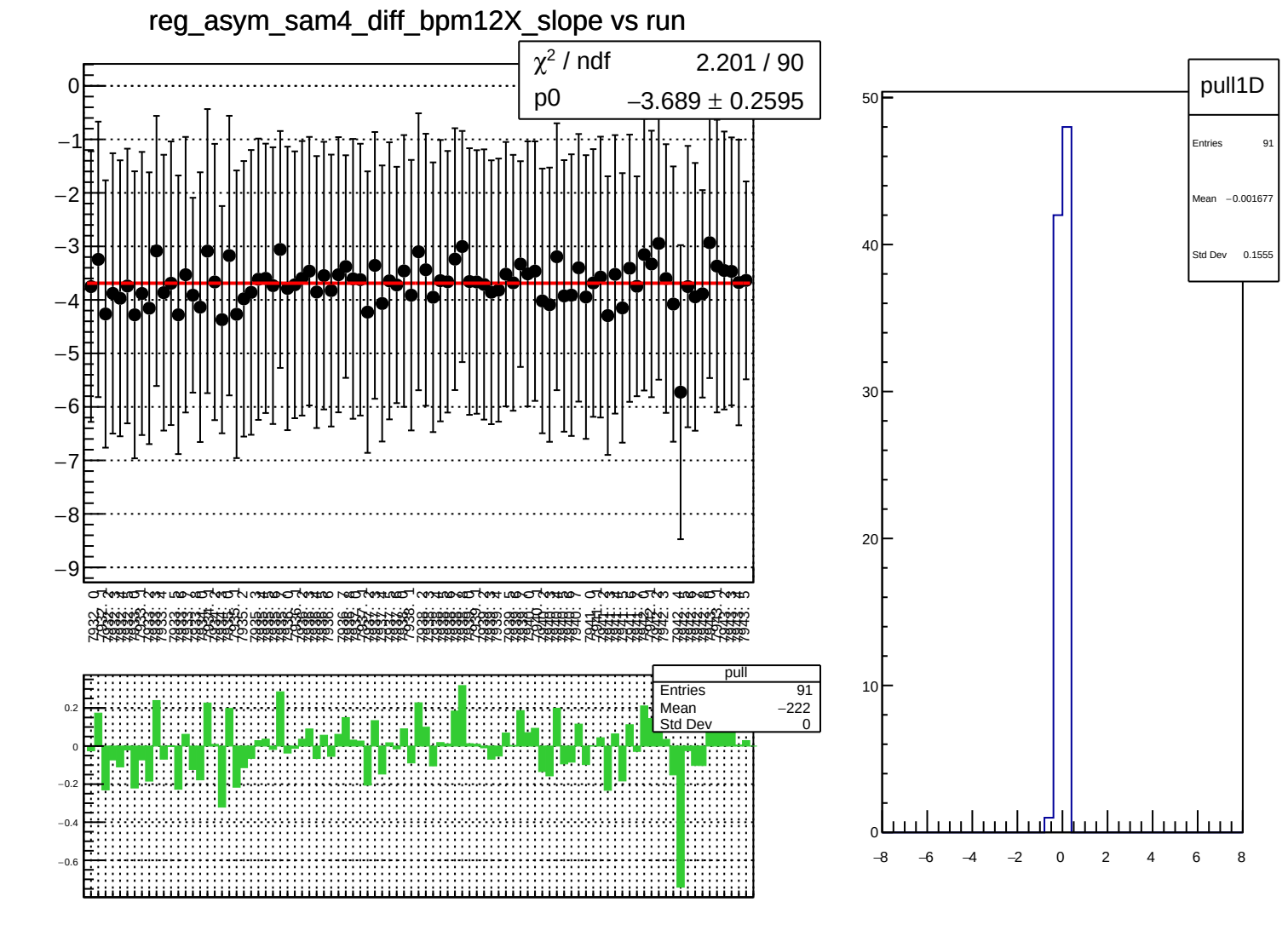

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2.467 / 90
p0 −117.6 ± 7.707
0
−50
−100
−150
−200
pull
Entries 91
Mean −87.37
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 91
Mean −0.008035
Std Dev 0.1644
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

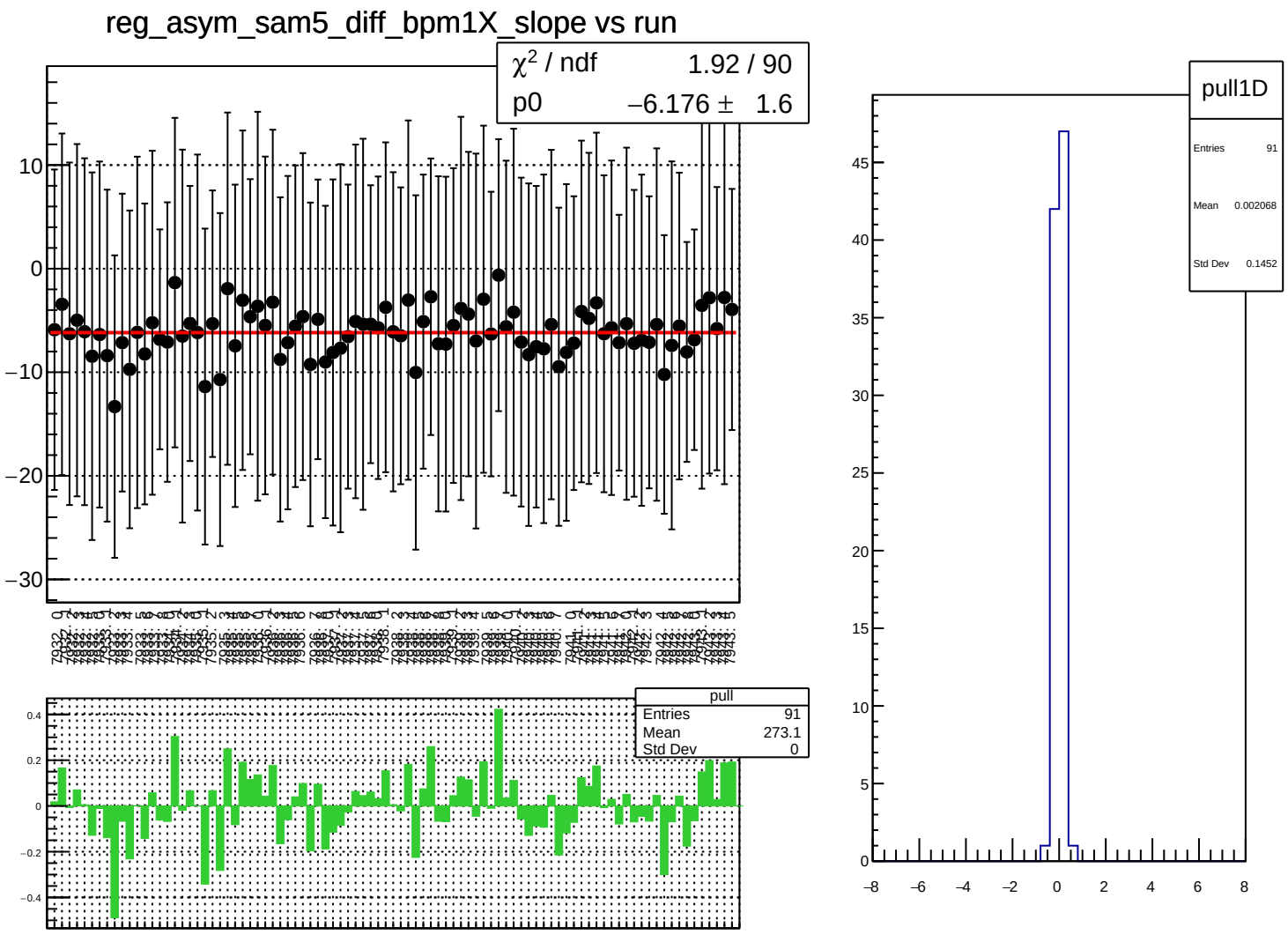

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.466 / 90
p0 150.9 ± 8.03
250
200
150
100
50
pull
Entries 91
Mean −1637
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 91
Mean 0.0002814
Std Dev 0.1269
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

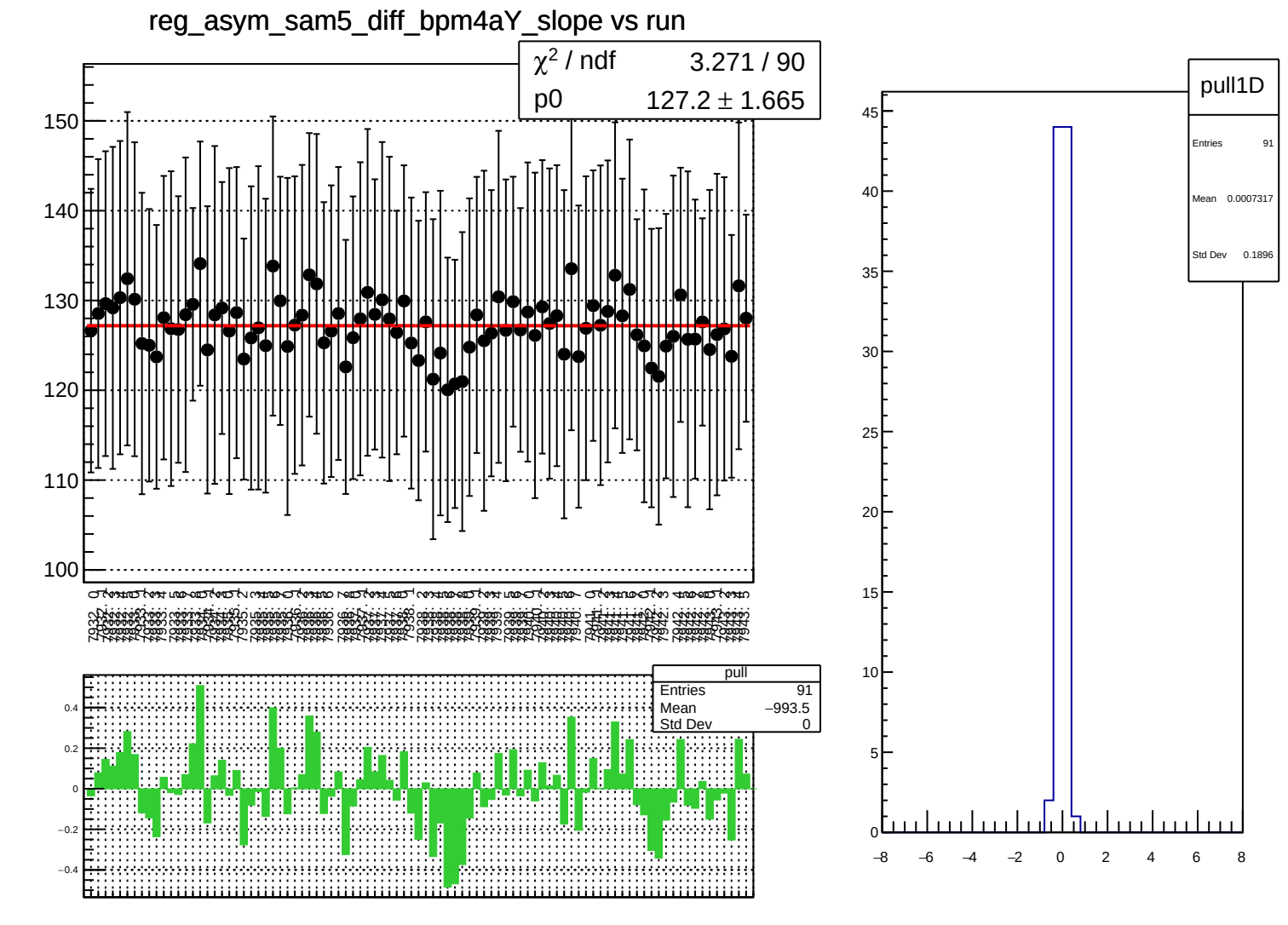

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.172 / 90
p0 −97.58 ± 6.934
pull
Entries 91
Mean −1.113
Std Dev 0
pull1D
Entries 91
Mean 0.007494
Std Dev 0.1543

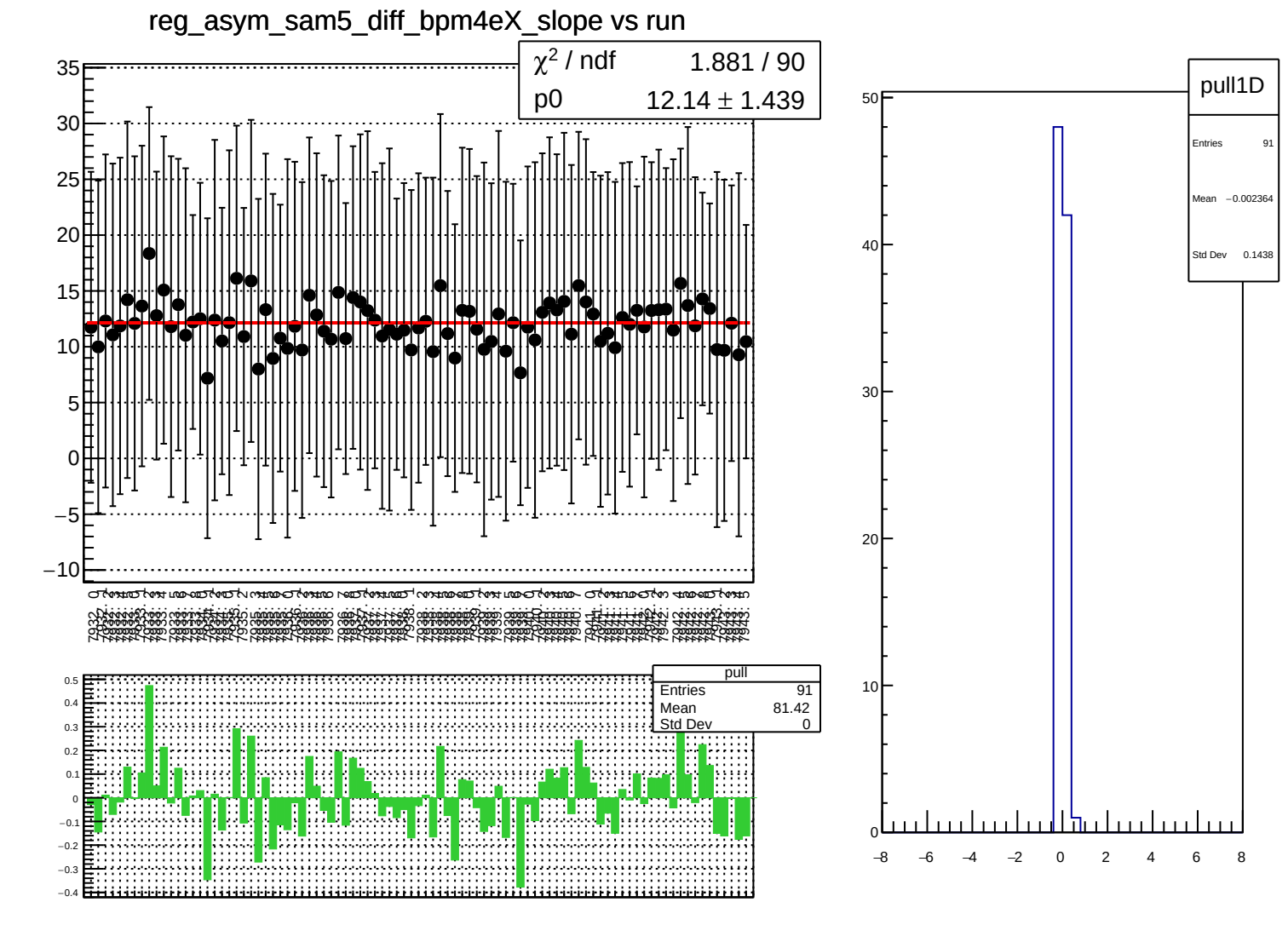

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.409 / 90
p0 72.91 ± 9.258
200
150
100
50
0
−50
pull
Entries 91
Mean 222.5
Std Dev 252.2
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

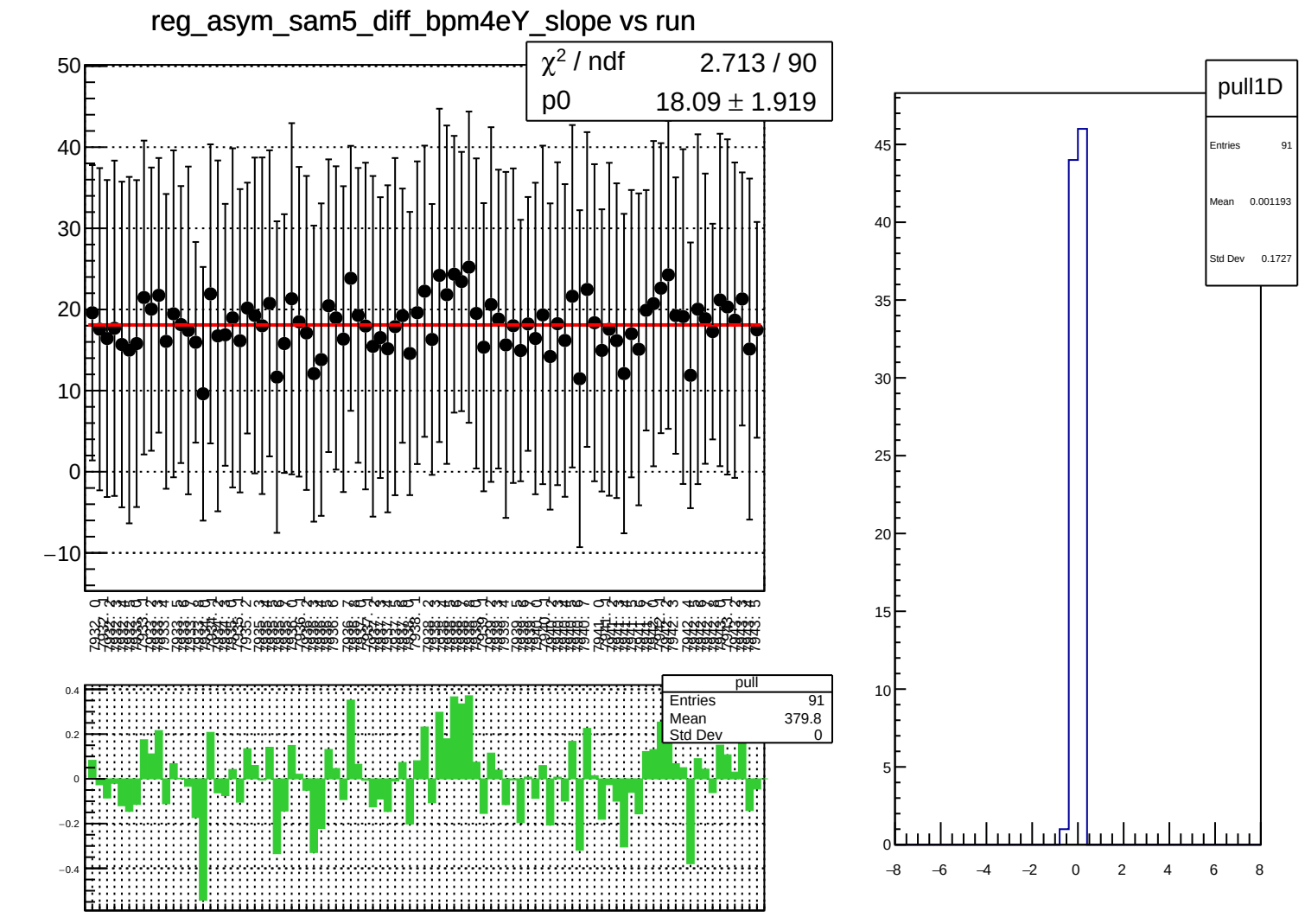

pull1D
Entries 91
Mean −0.0001872
Std Dev 0.1244
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

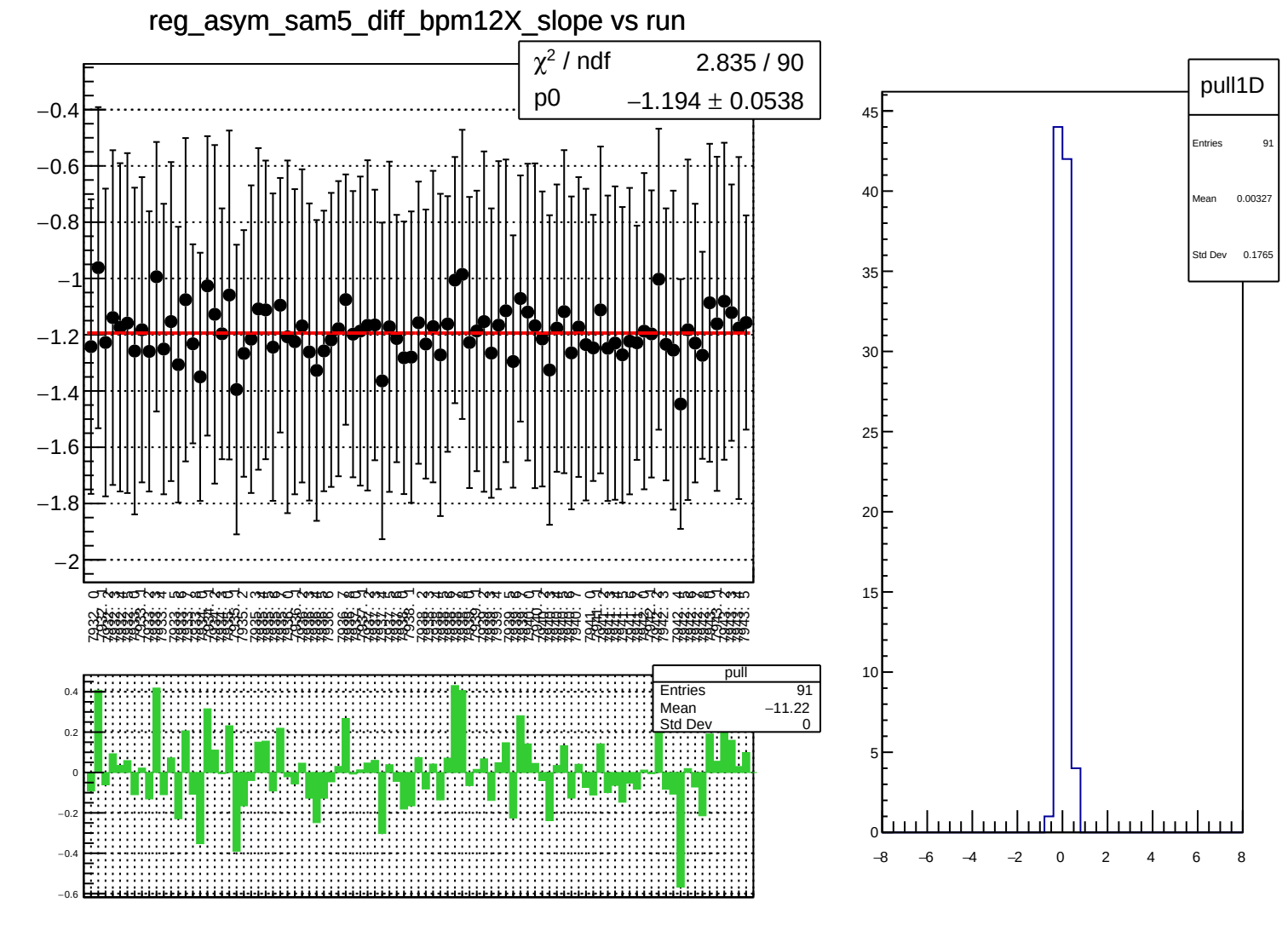

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 2.201 / 90
p0 −3.689 ± 0.2595
pull
Entries 91
Mean −222
Std Dev 0
pull1D
Entries 91
Mean −0.001677
Std Dev 0.1555

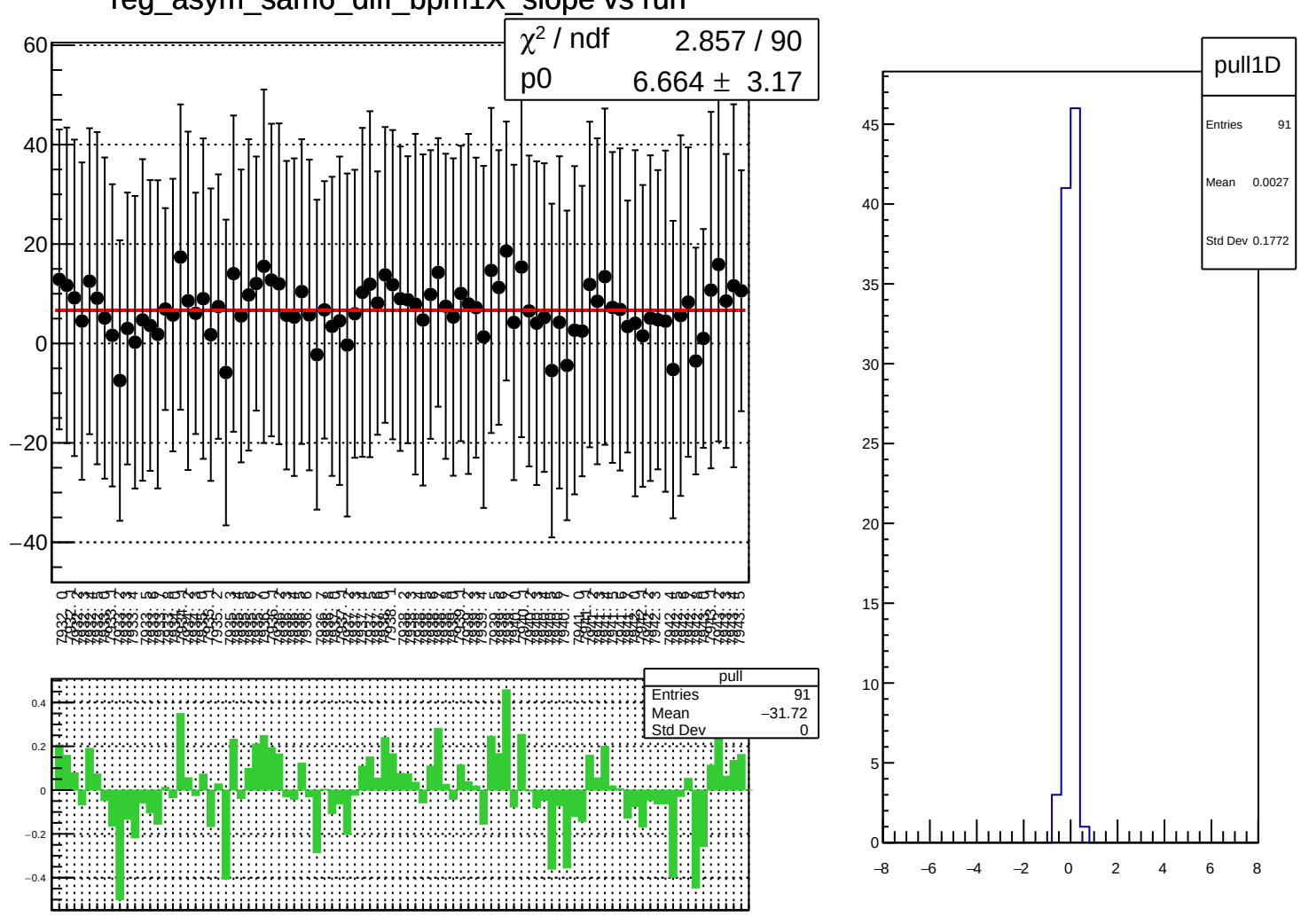

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.92 / 90
p0 −6.176 ± 1.6
pull
Entries 91
Mean 273.1
Std Dev 0
pull1D
Entries 91
Mean 0.002068
Std Dev 0.1452

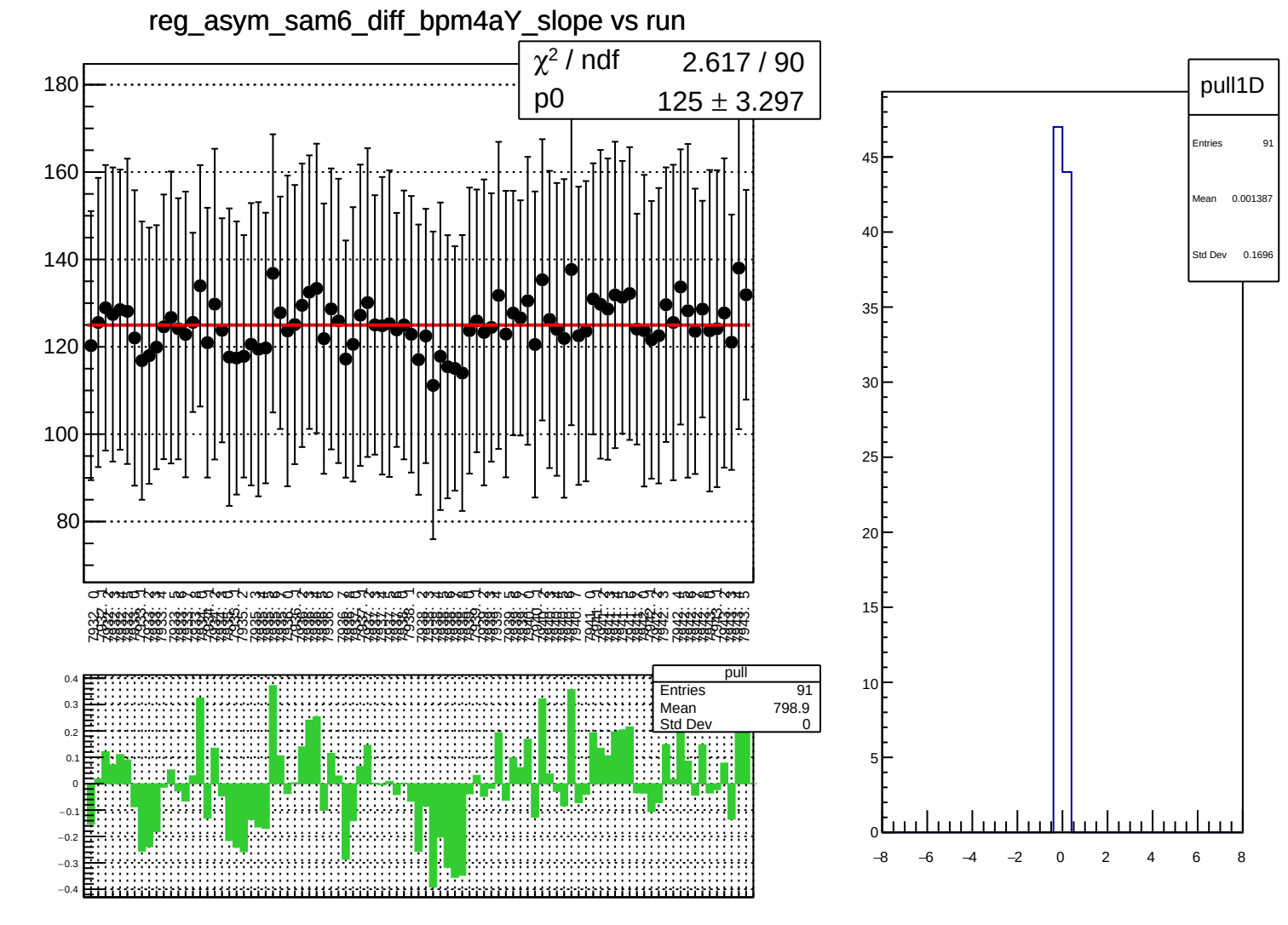

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.271 / 90
p0 127.2 ± 1.665
150
140
130
120
110
100
pull
Entries 91
Mean −993.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean 0.0007317
Std Dev 0.1896
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

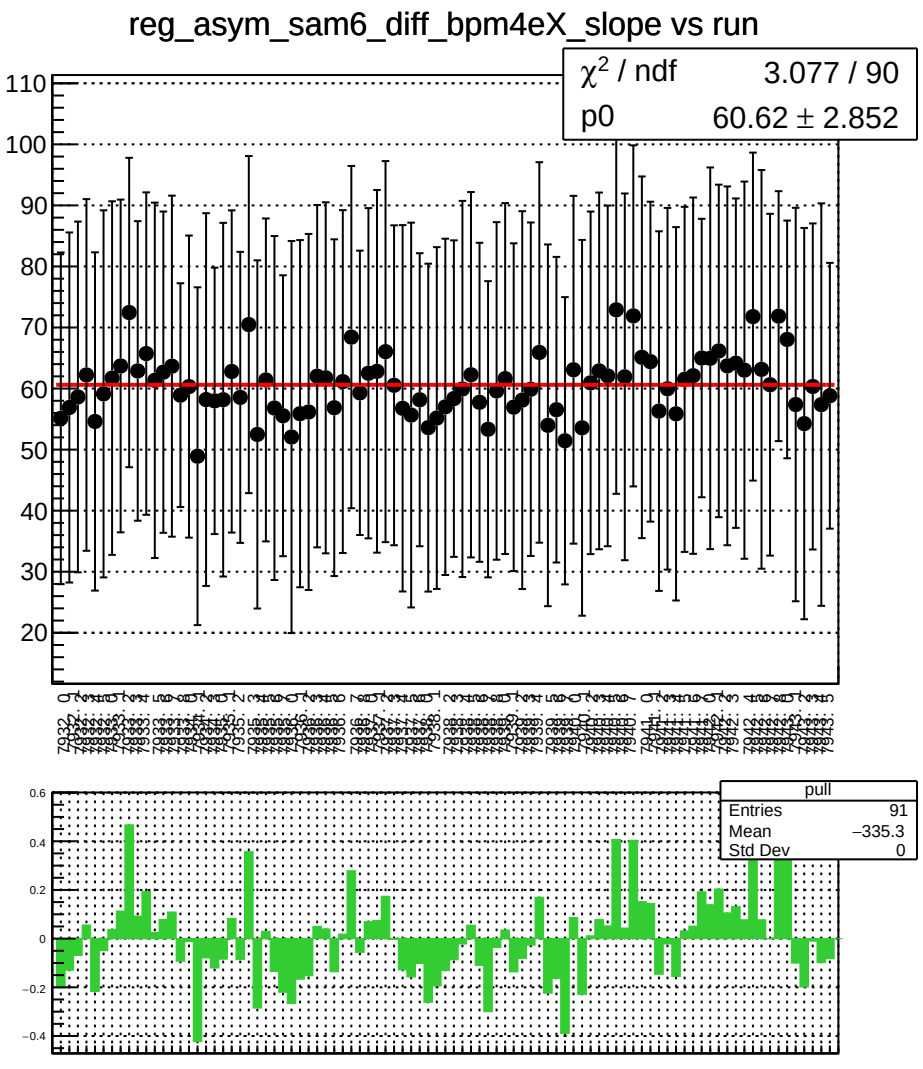

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.881 / 90
p0 12.14 ± 1.439
pull
Entries 91
Mean 81.42
Std Dev 0
pull1D
Entries 91
Mean −0.002364
Std Dev 0.1438

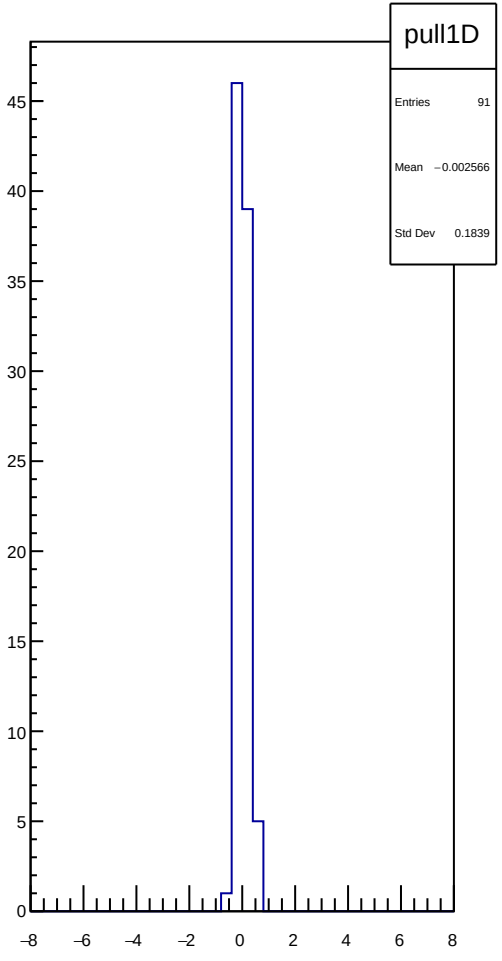

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 2.713 / 90
p0 18.09 ± 1.919
pull
Entries 91
Mean 379.8
Std Dev 0
pull1D
Entries 91
Mean 0.001193
Std Dev 0.1727

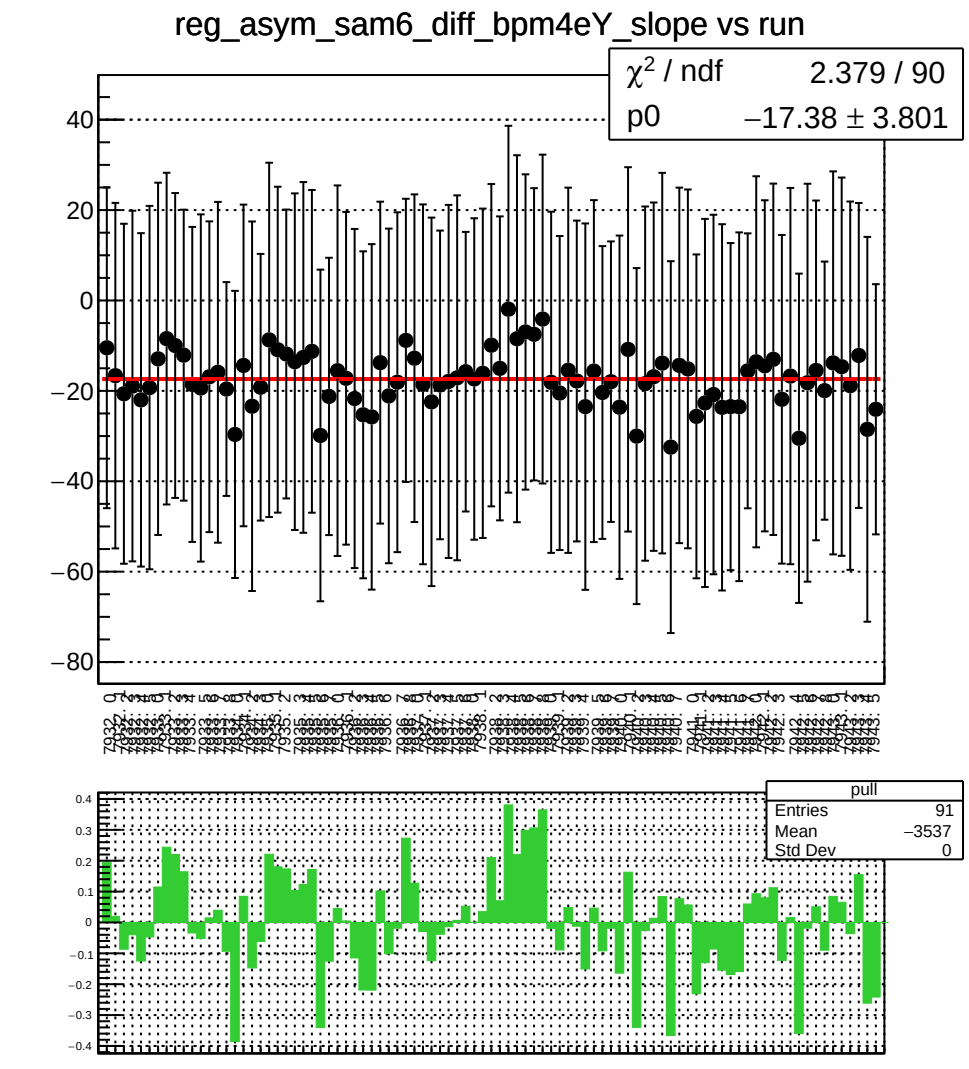

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.835 / 90
p0 −1.194 ± 0.0538
pull
Entries 91
Mean −11.22
Std Dev 0
pull1D
Entries 91
Mean 0.00327
Std Dev 0.1765

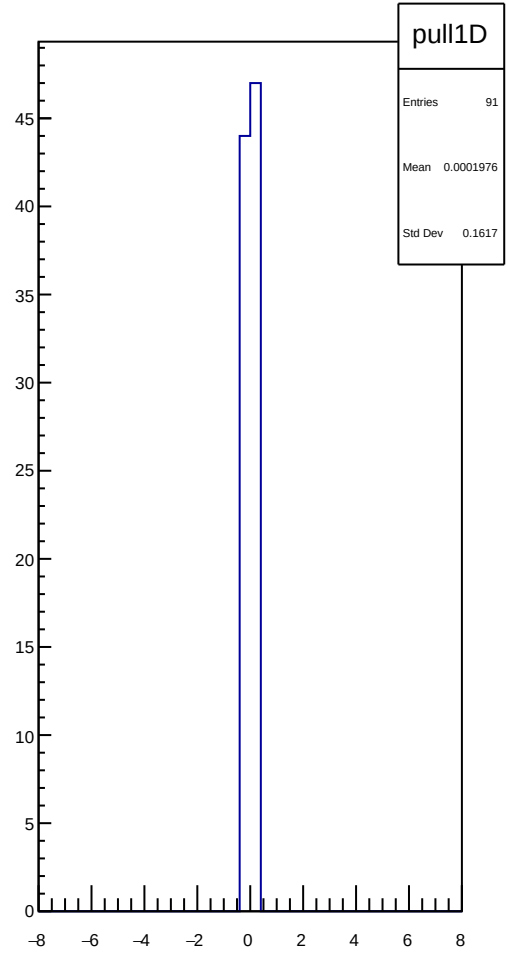

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.857 / 90
p0 6.664 ± 3.17
pull
Entries 91
Mean −31.72
Std Dev 0
pull1D
Entries 91
Mean 0.0027
Std Dev 0.1772

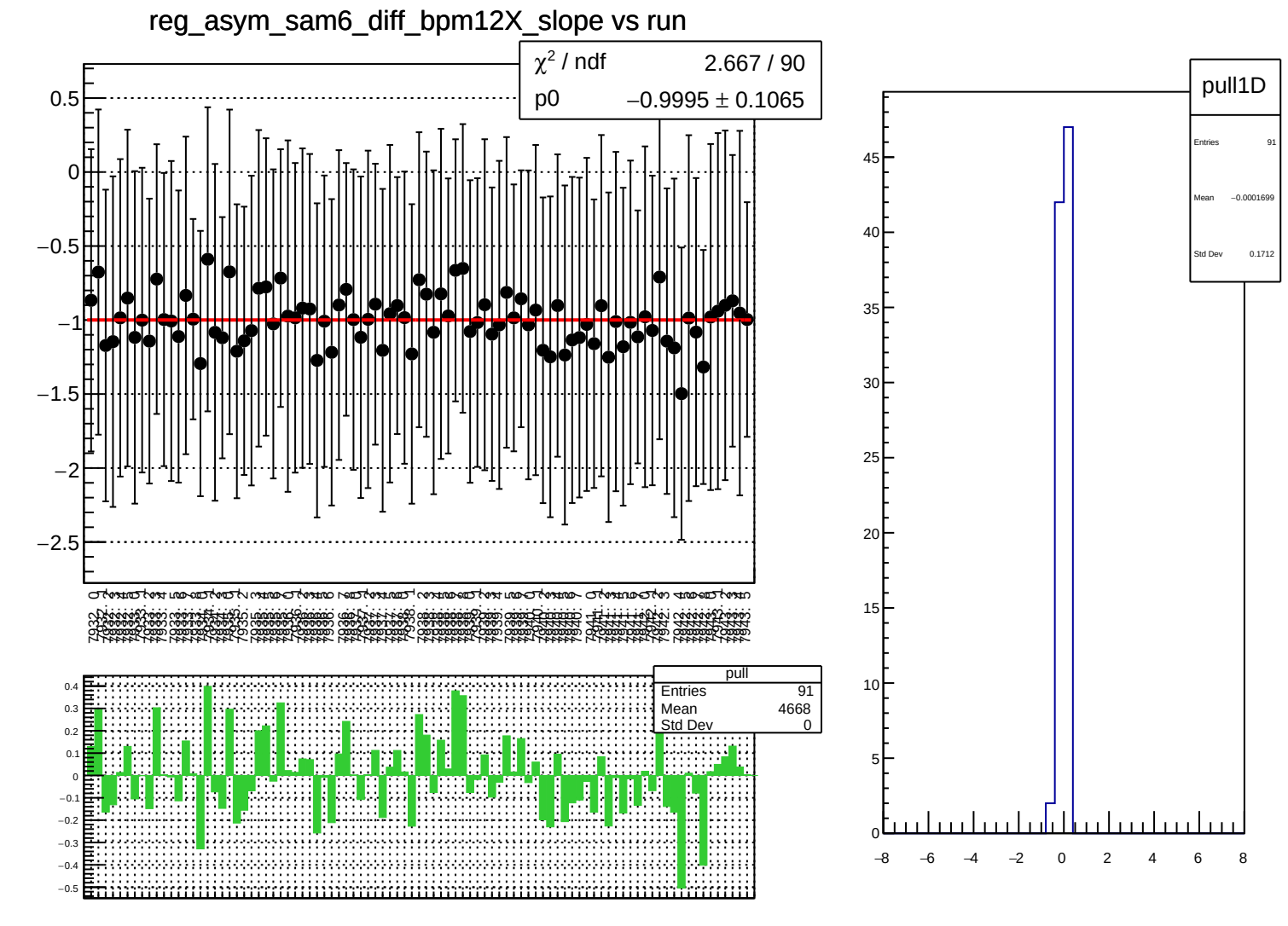

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 2.617 / 90
p0 125 ± 3.297
pull
Entries 91
Mean 798.9
Std Dev 0
pull1D
Entries 91
Mean 0.001387
Std Dev 0.1696

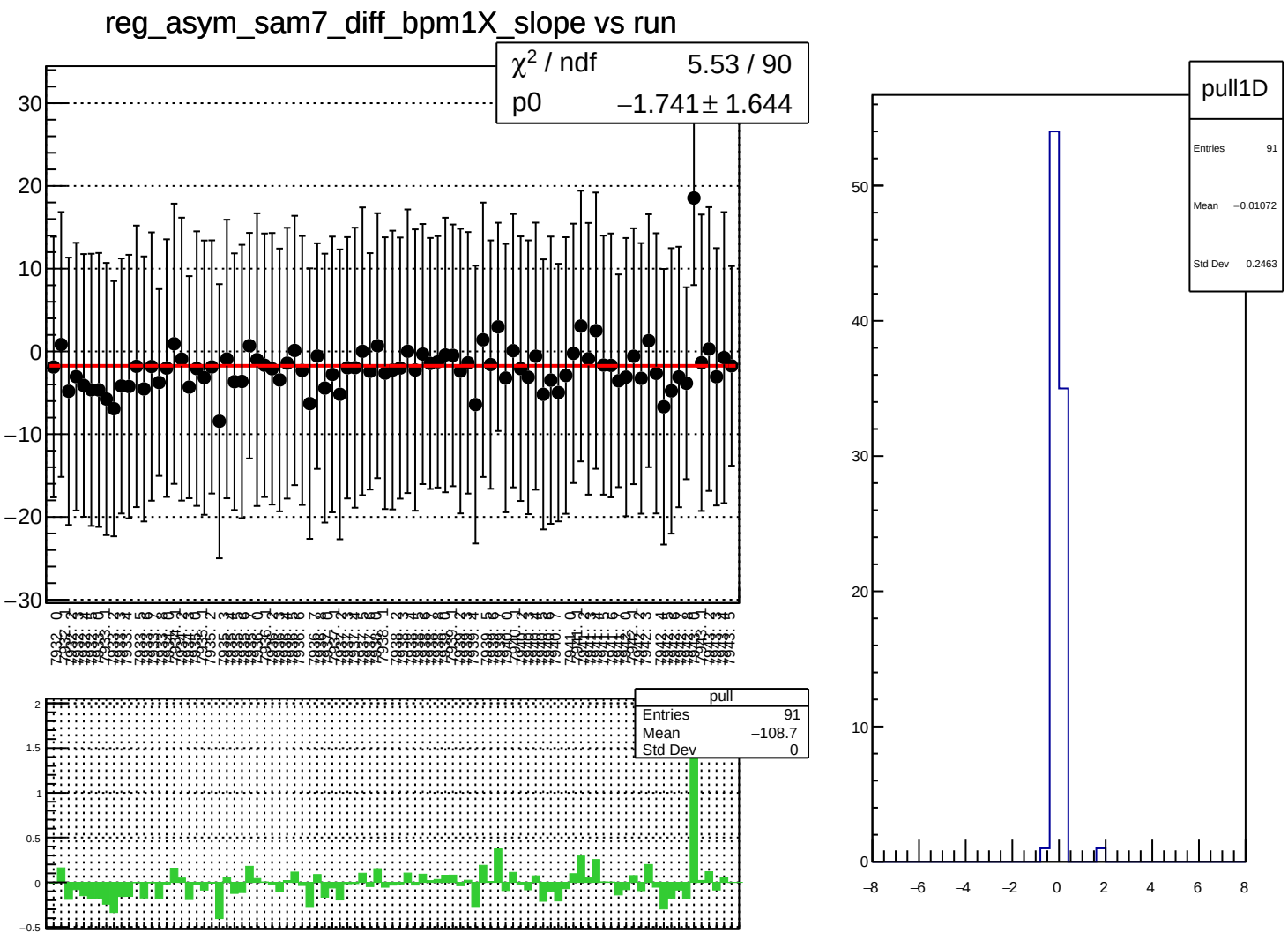

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.077 / 90
p0 60.62 ± 2.852
pull
Entries 91
Mean −335.3
Std Dev 0

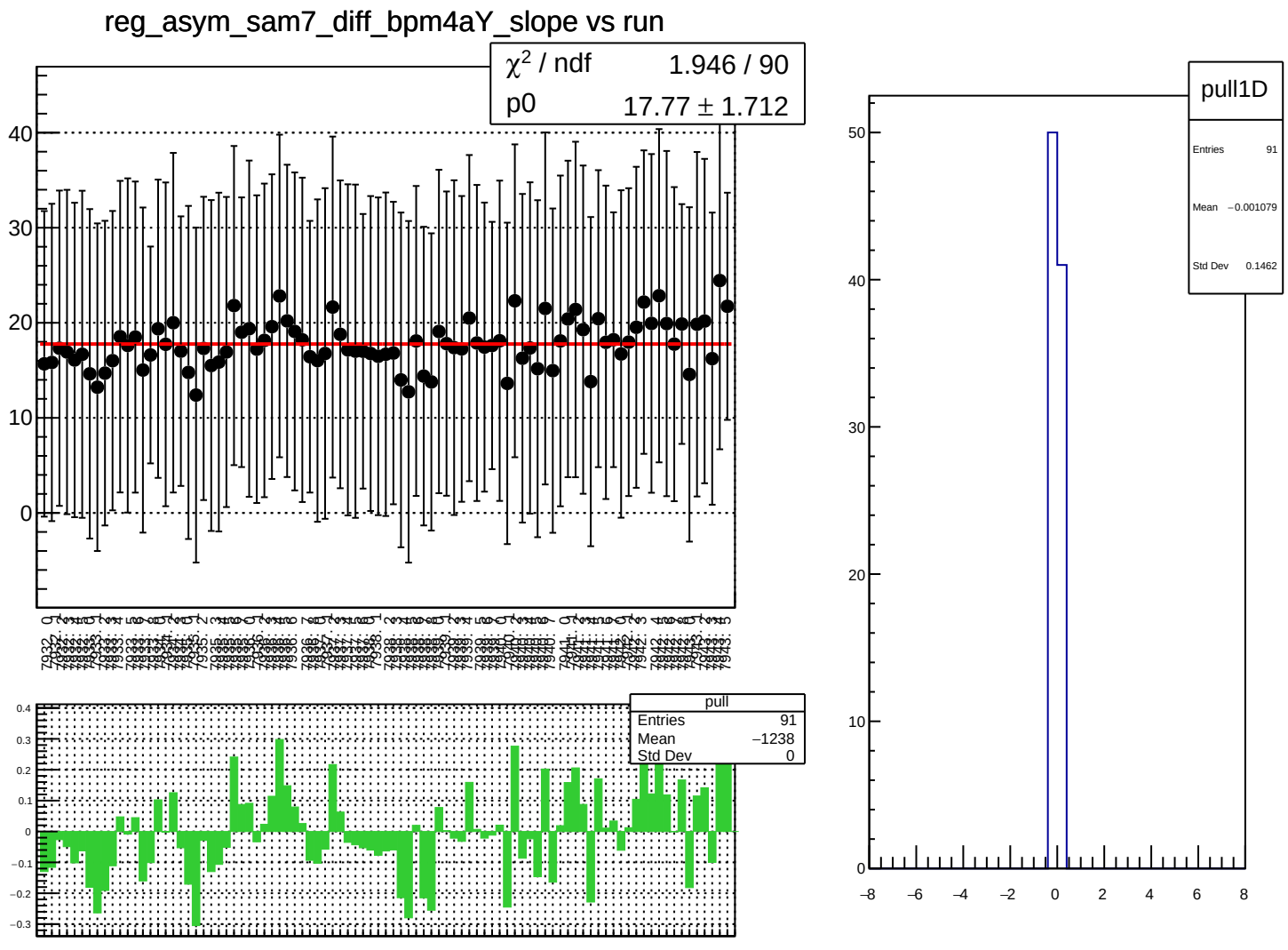

pull1D
Entries 91
Mean −0.002566
Std Dev 0.1839

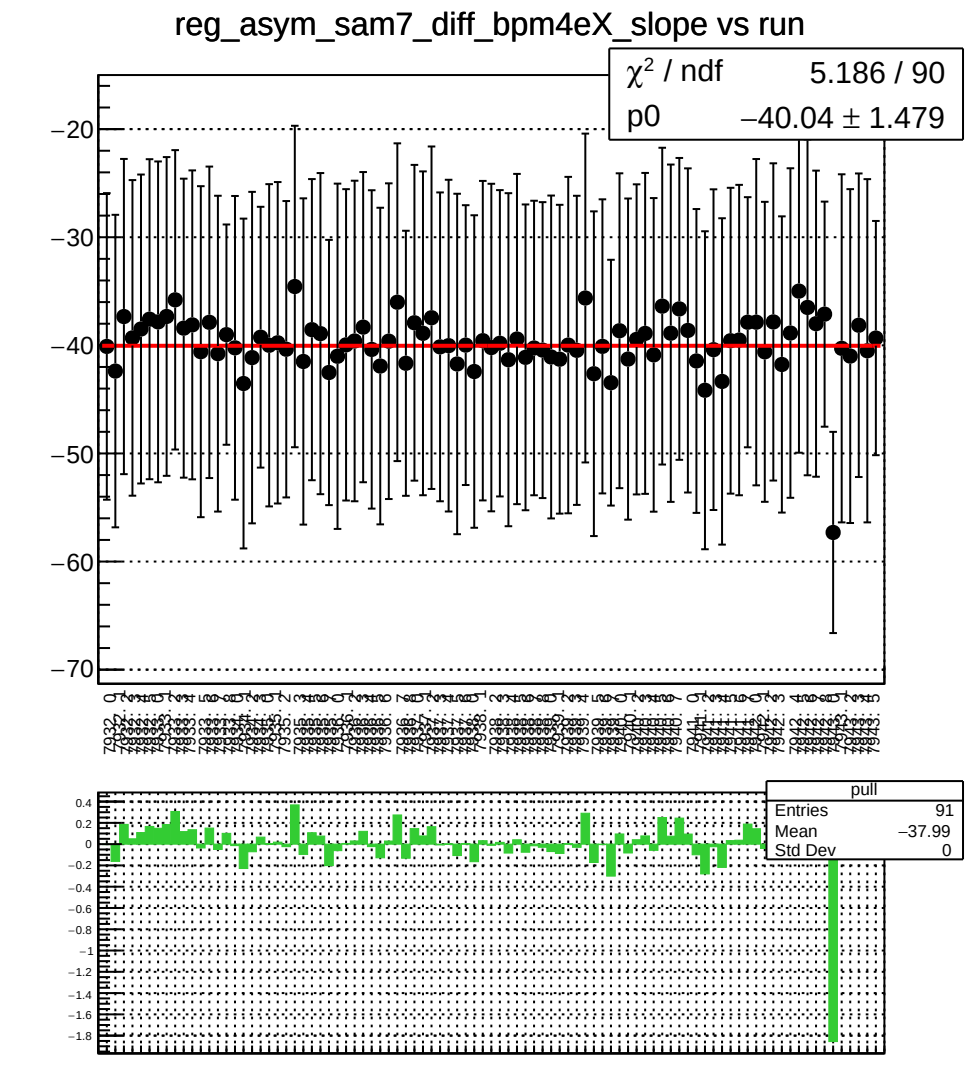

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 2.379 / 90
p0 −17.38 ± 3.801
pull
Entries 91
Mean −3537
Std Dev 0

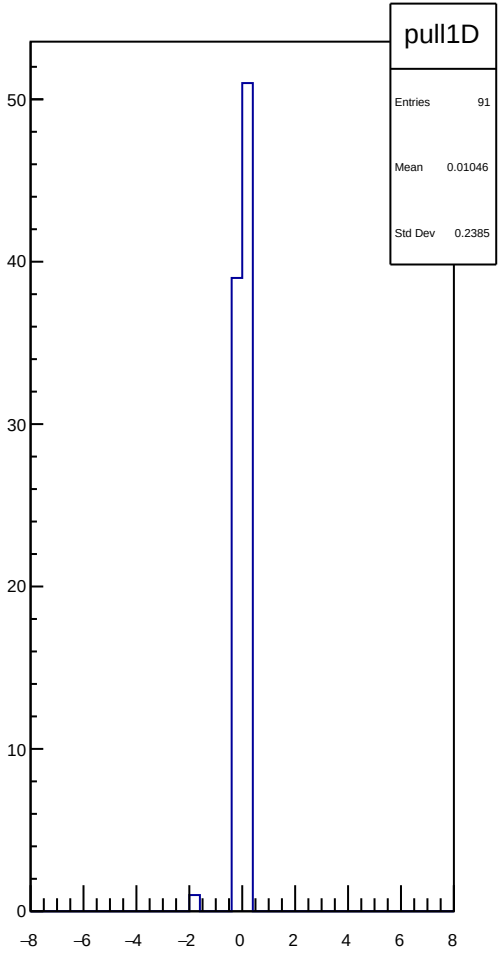

pull1D
Entries 91
Mean 0.0001976
Std Dev 0.1617

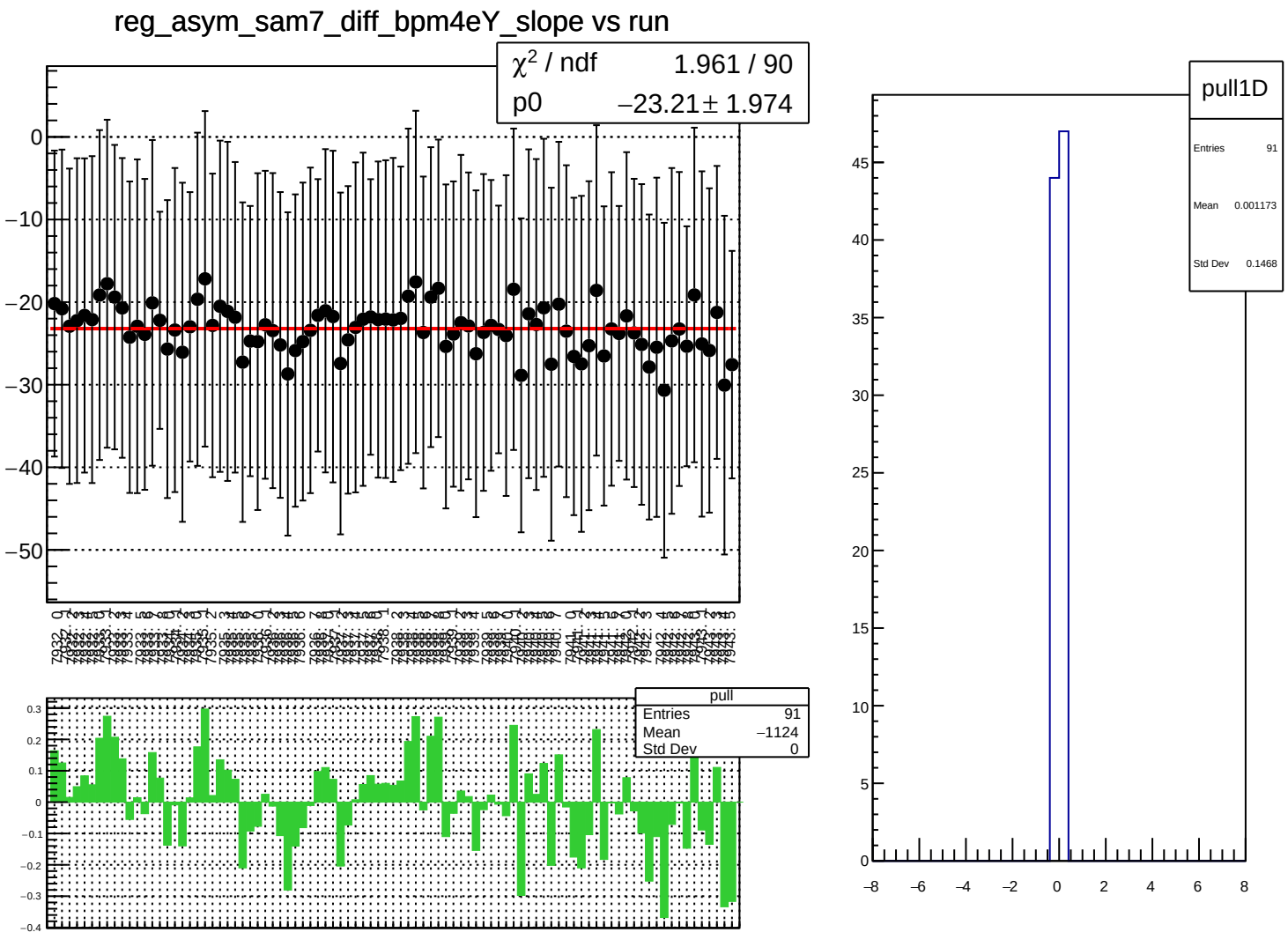

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.667 / 90
p0 −0.9995 ± 0.1065
pull
Entries 91
Mean 4668
Std Dev 0
pull1D
Entries 91
Mean −0.0001699
Std Dev 0.1712

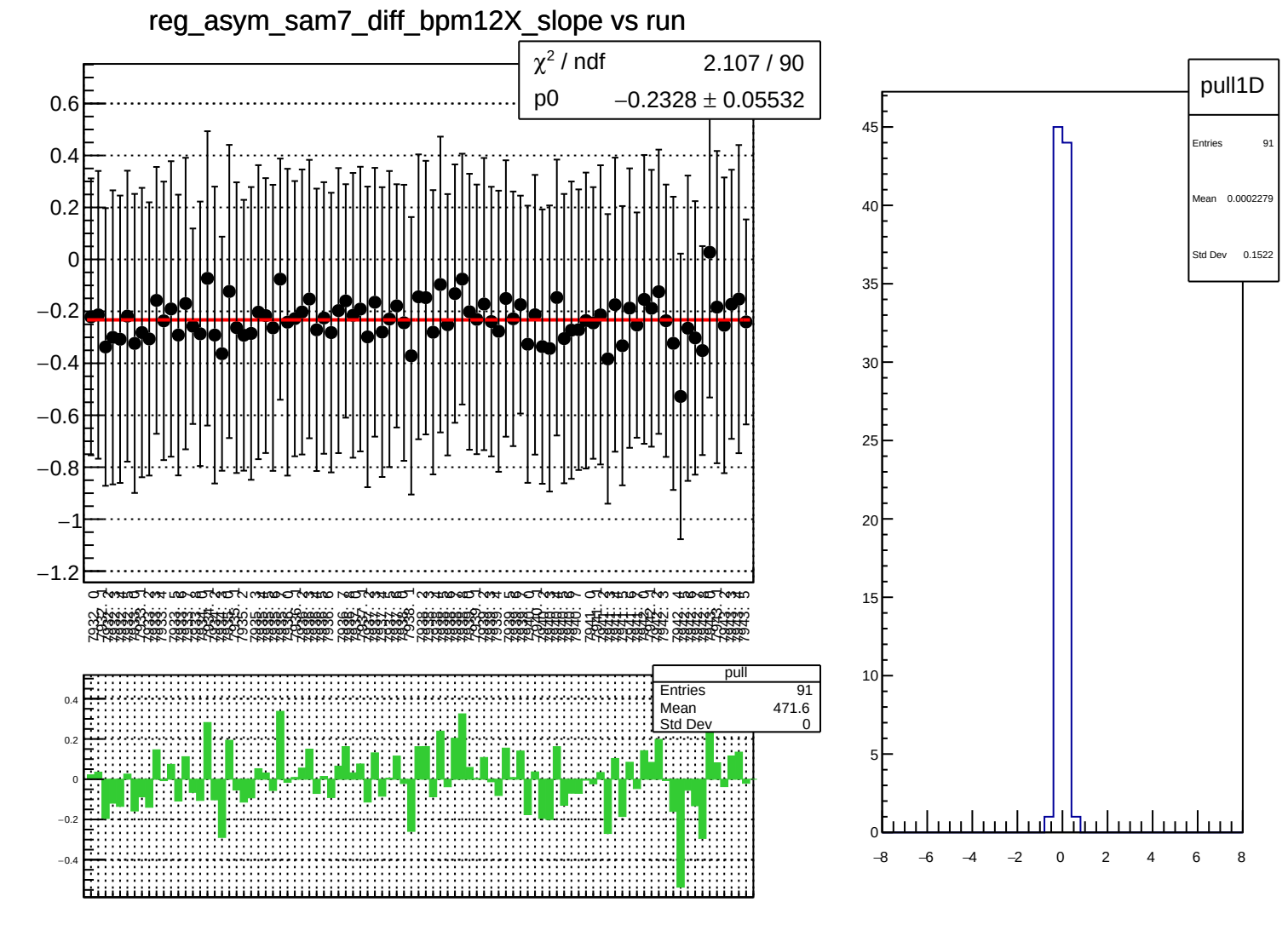

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 5.53 / 90
p0 −1.741 ± 1.644
pull
Entries 91
Mean −108.7
Std Dev 0
pull1D
Entries 91
Mean −0.01072
Std Dev 0.2463

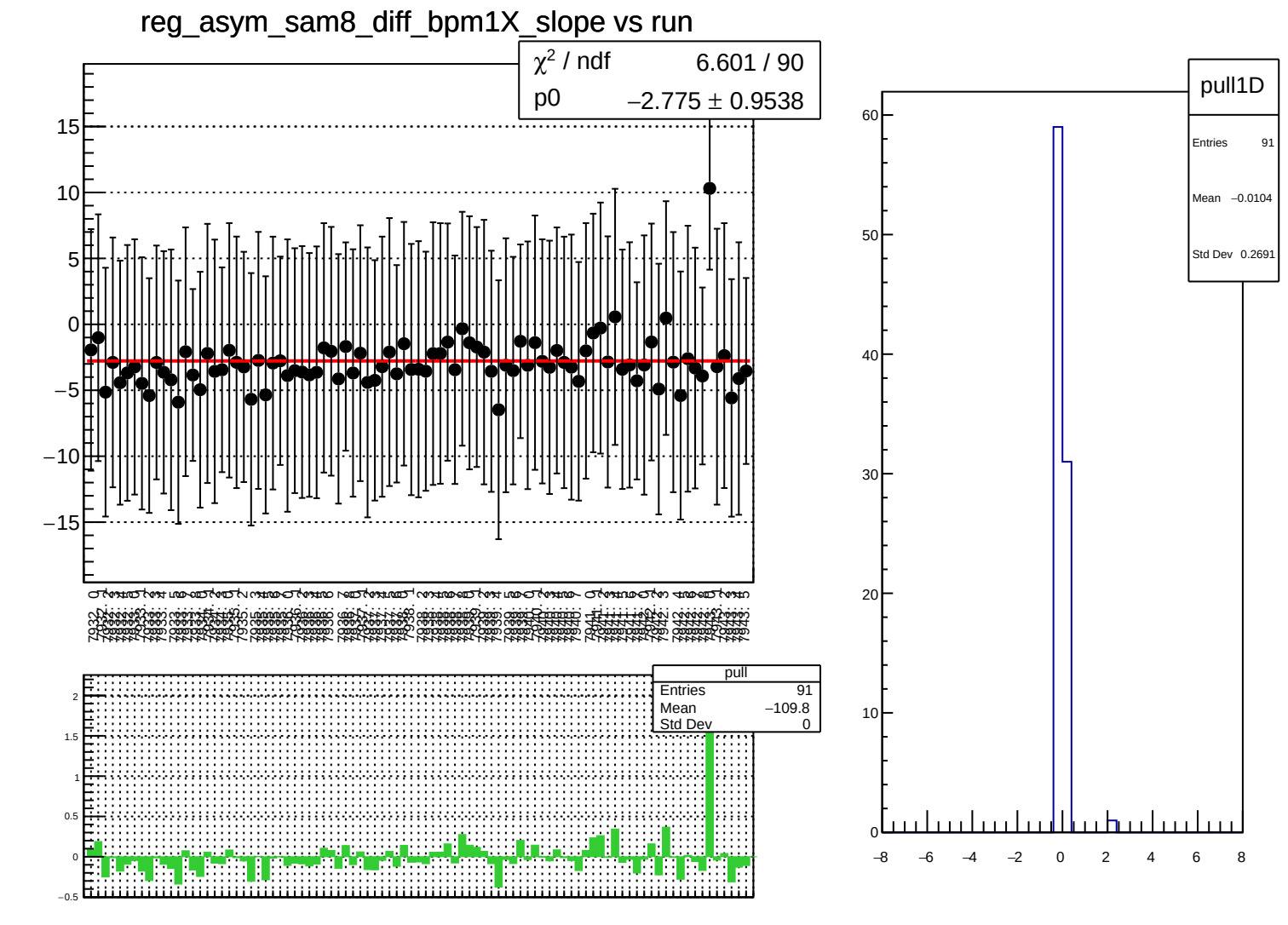

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 1.946 / 90
p0 17.77 ± 1.712
pull
Entries 91
Mean −1238
Std Dev 0
pull1D
Entries 91
Mean −0.001079
Std Dev 0.1462

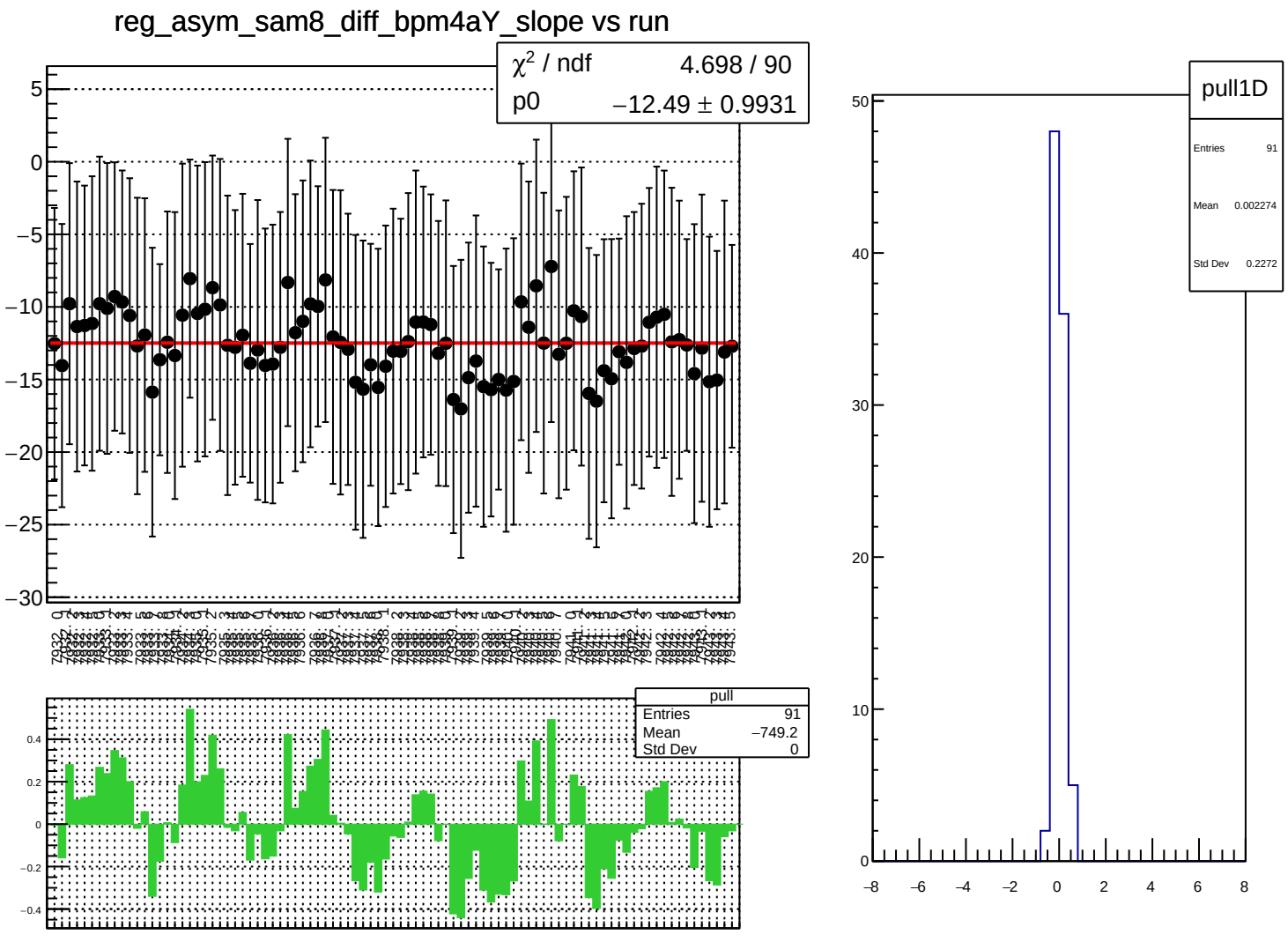

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 5.186 / 90
p0 −40.04 ± 1.479
pull
Entries 91
Mean −37.99
Std Dev 0

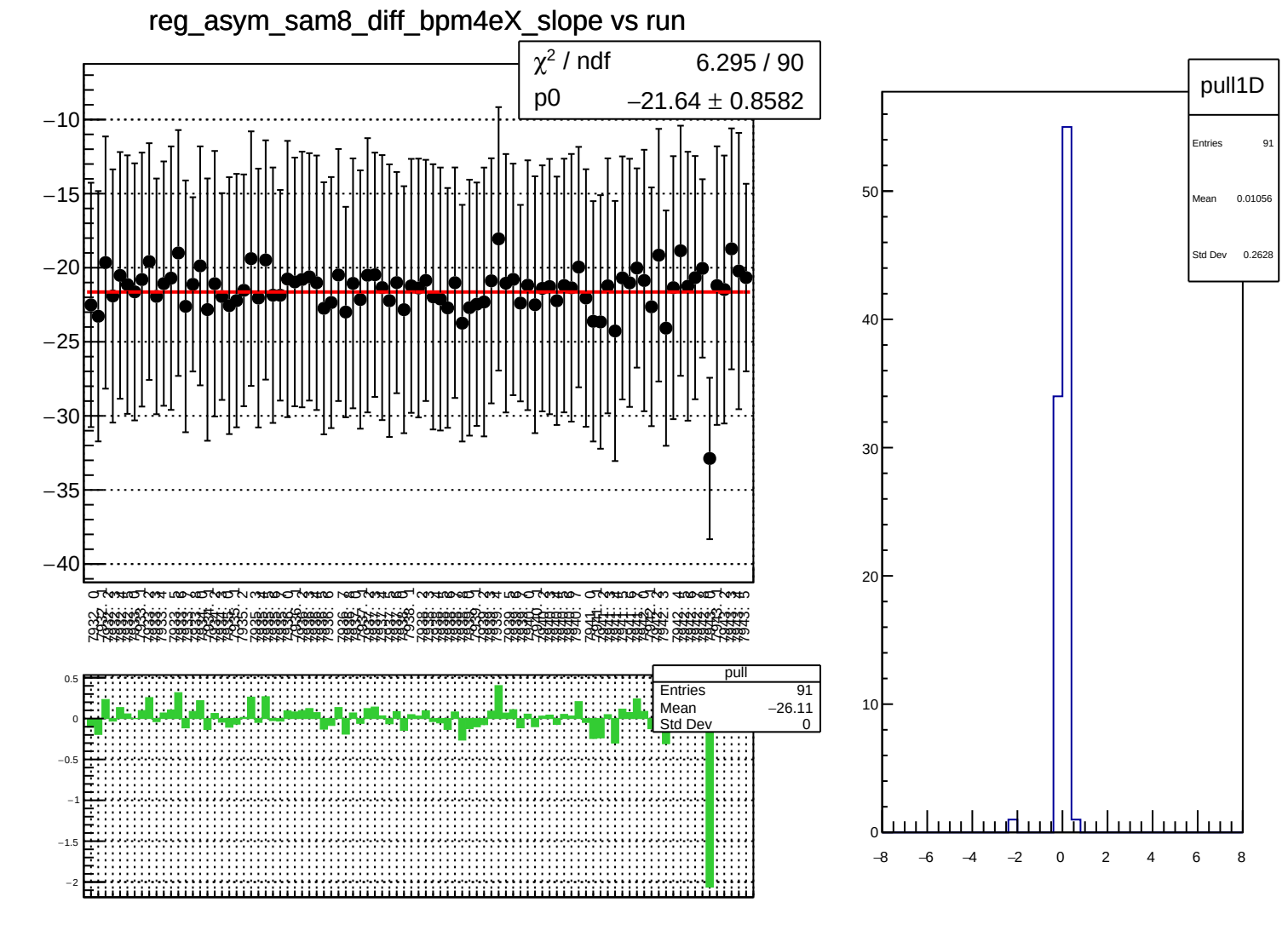

pull1D
Entries 91
Mean 0.01046
Std Dev 0.2385

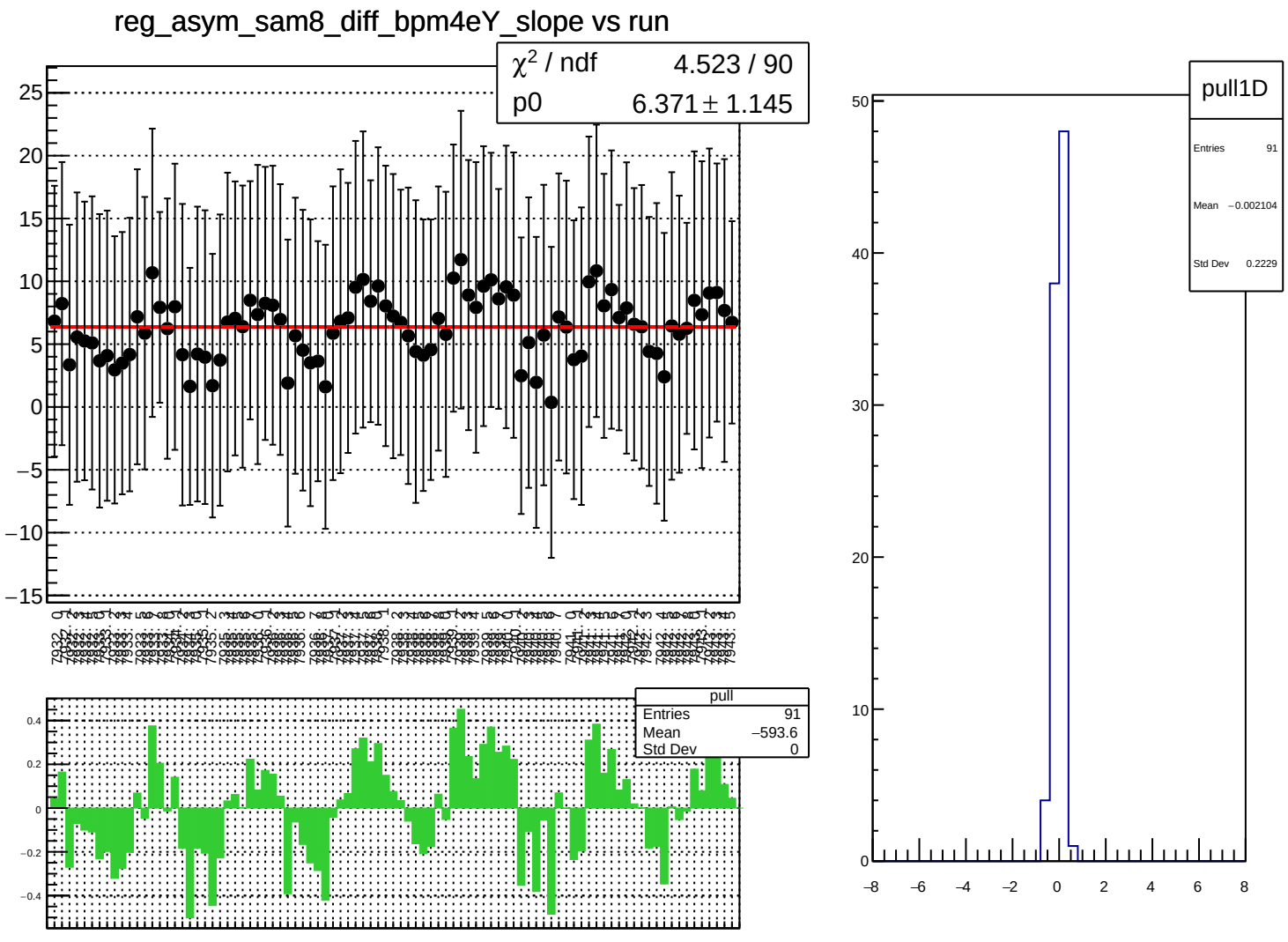

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 1.961 / 90
p0 −23.21± 1.974
pull
Entries 91
Mean −1124
Std Dev 0
pull1D
Entries 91
Mean 0.001173
Std Dev 0.1468

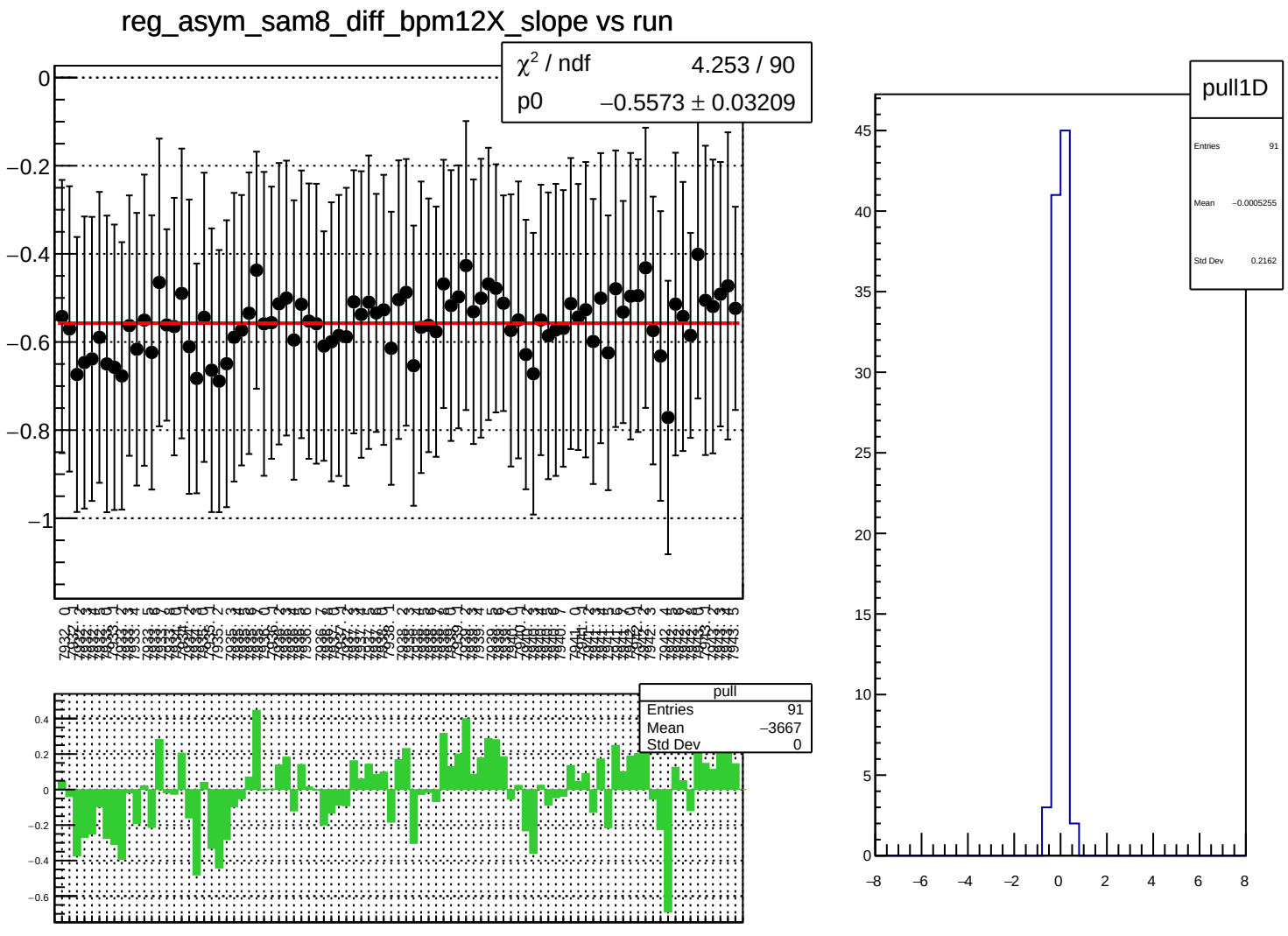

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.107 / 90
p0 −0.2328 ± 0.05532
pull
Entries 91
Mean 471.6
Std Dev 0
pull1D
Entries 91
Mean 0.0002279
Std Dev 0.1522

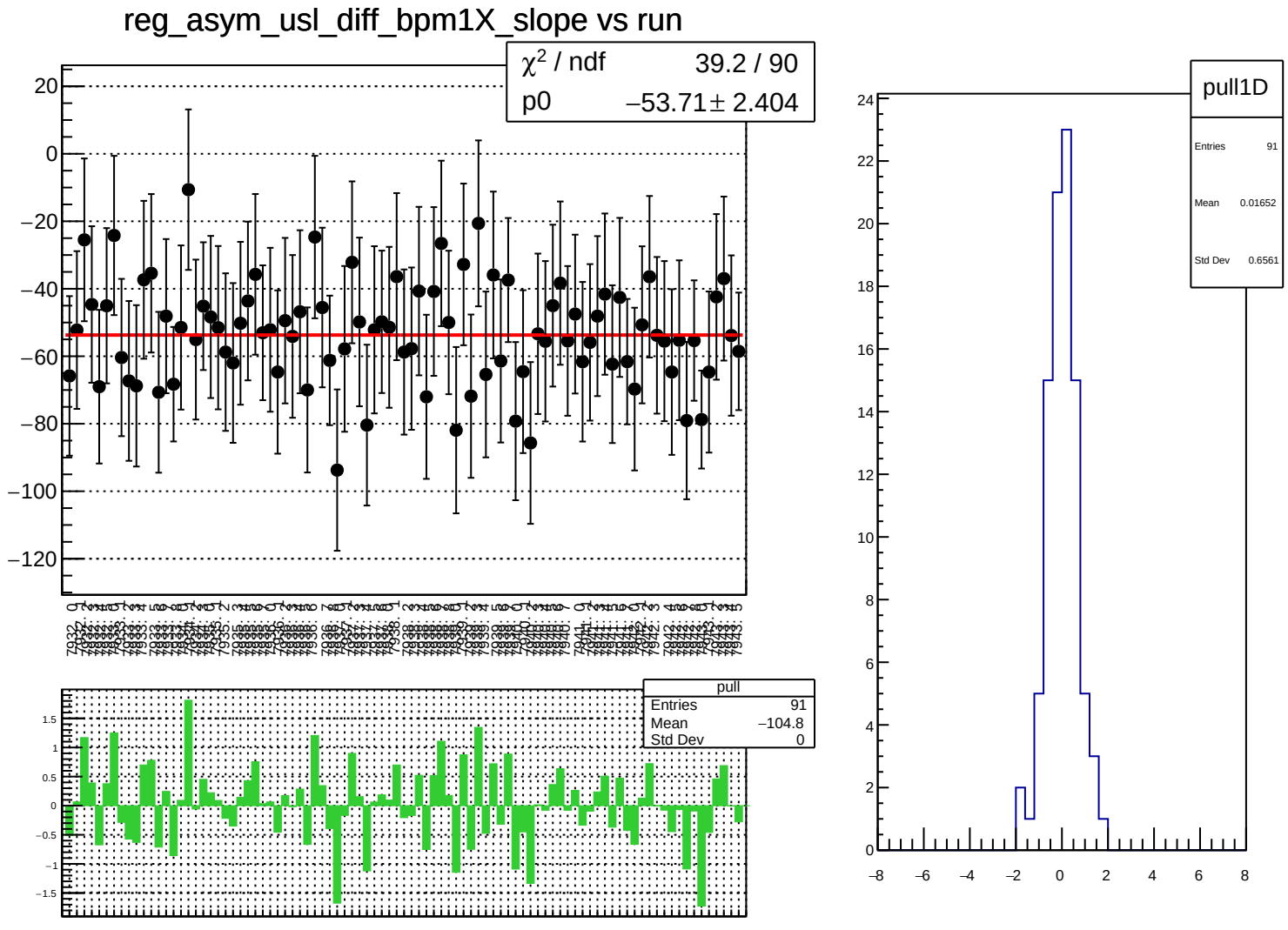

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 6.601 / 90
p0 −2.775 ± 0.9538
pull
Entries 91
Mean −109.8
Std Dev 0
pull1D
Entries 91
Mean −0.0104
Std Dev 0.2691

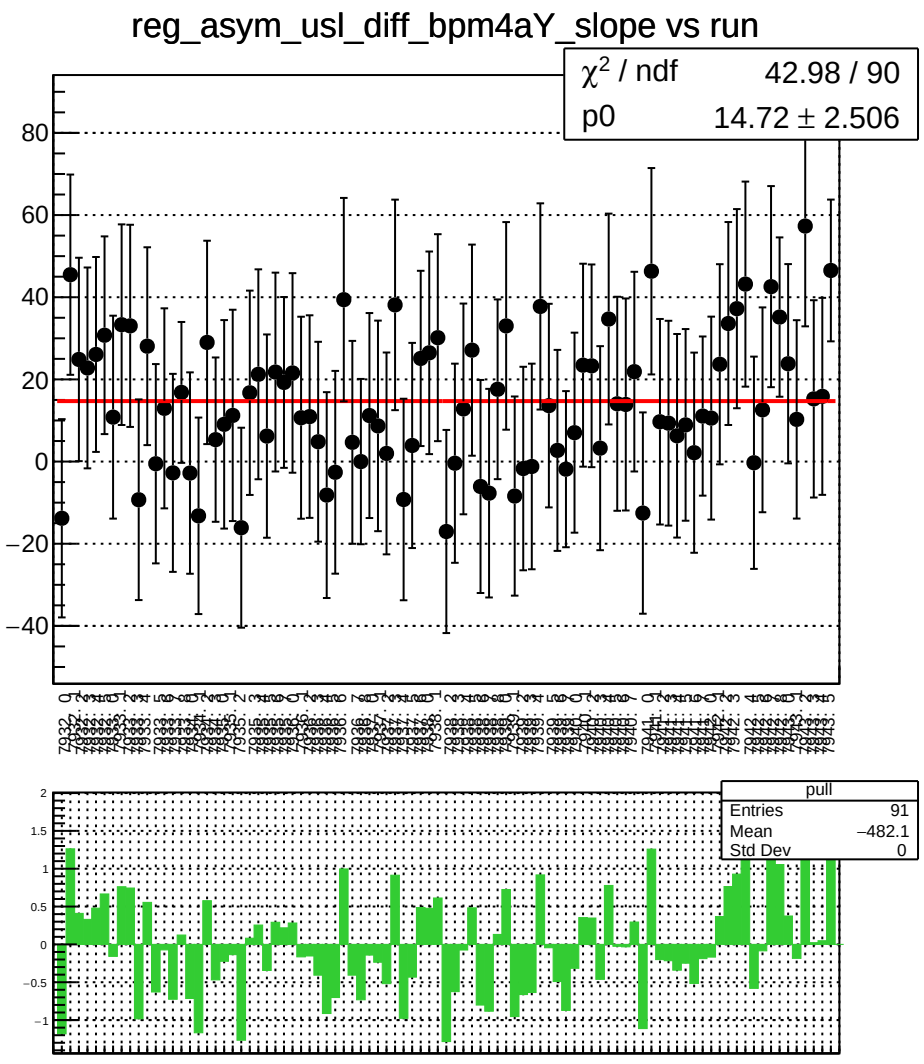

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 4.698 / 90
p0 −12.49 ± 0.9931
pull
Entries 91
Mean −749.2
Std Dev 0
pull1D
Entries 91
Mean 0.002274
Std Dev 0.2272

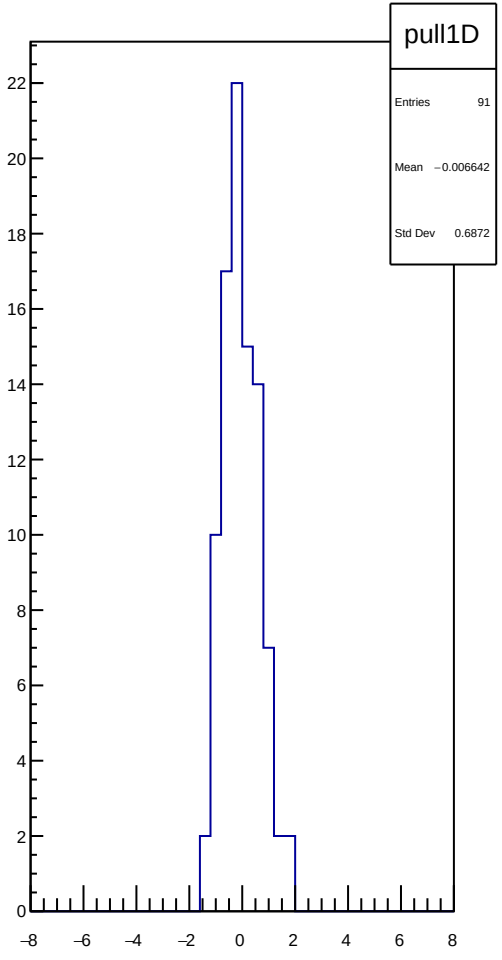

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 6.295 / 90
p0 −21.64 ± 0.8582
pull
Entries 91
Mean −26.11
Std Dev 0
pull1D
Entries 91
Mean 0.01056
Std Dev 0.2628

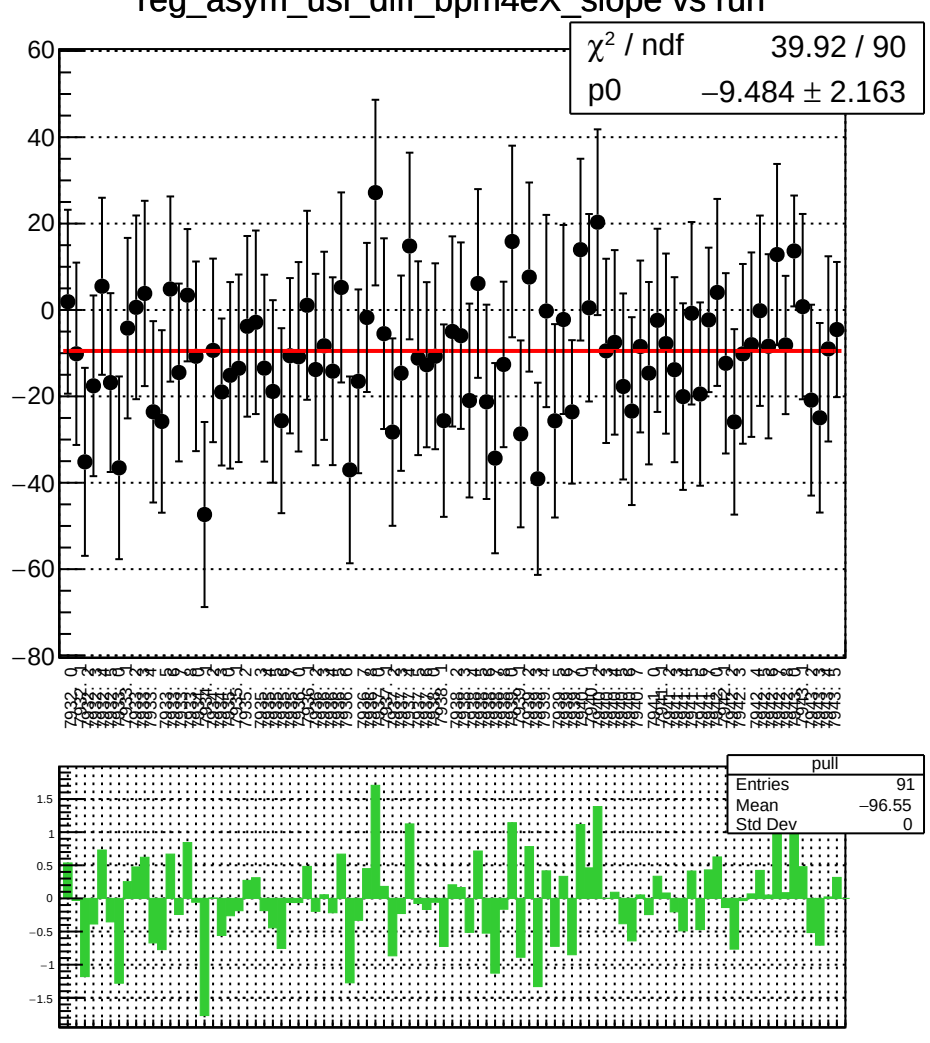

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 4.523 / 90
p0 6.371 ± 1.145
pull
Entries 91
Mean −593.6
Std Dev 0
pull1D
Entries 91
Mean −0.002104
Std Dev 0.2229

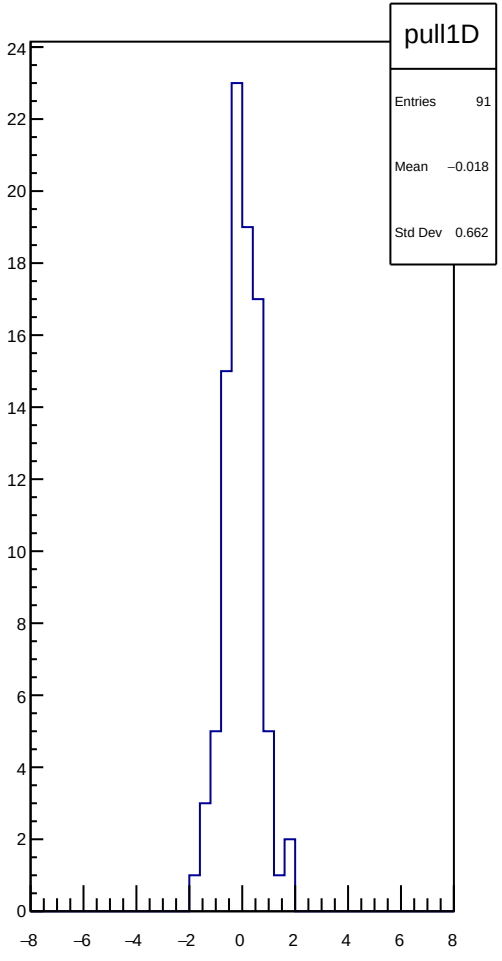

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 4.253 / 90
p0 −0.5573 ± 0.03209
pull
Entries 91
Mean −3667
Std Dev 0
pull1D
Entries 91
Mean −0.0005255
Std Dev 0.2162

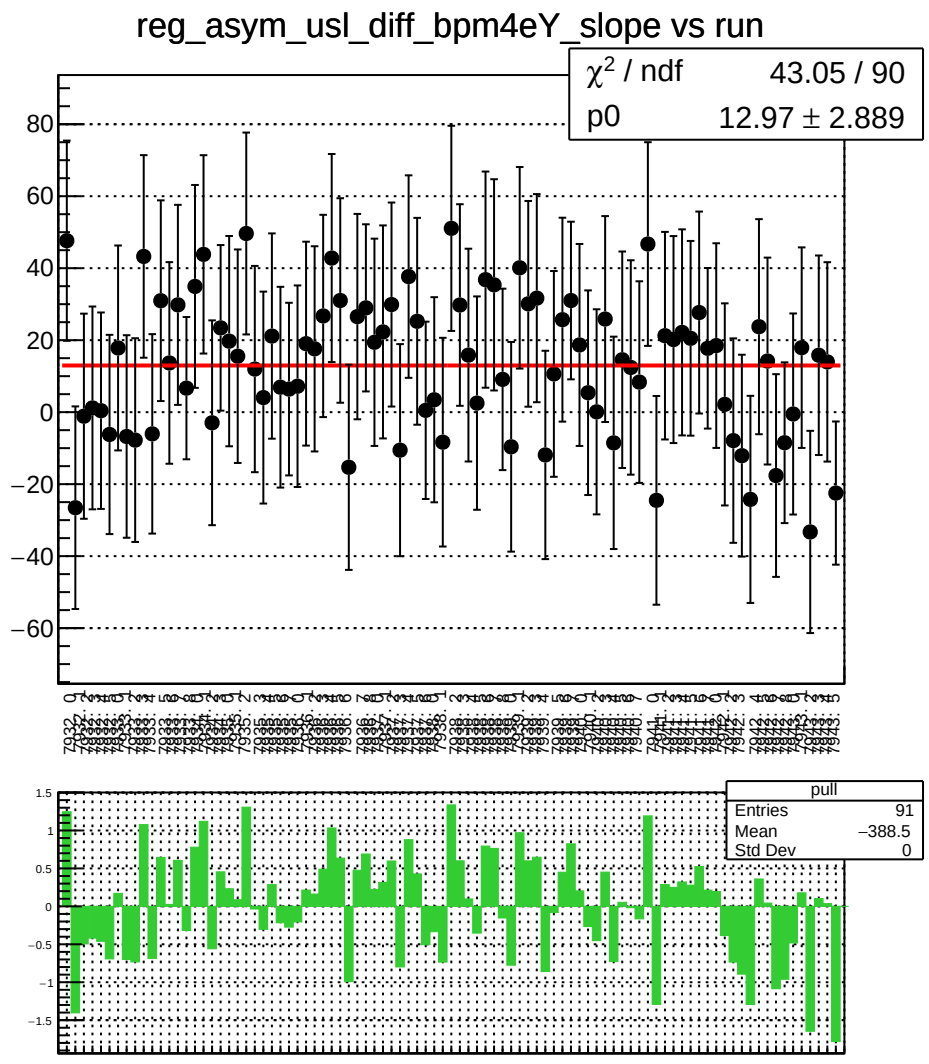

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 39.2 / 90
p0 −53.71 ± 2.404
pull
Entries 91
Mean −104.8
Std Dev 0
pull1D
Entries 91
Mean 0.01652
Std Dev 0.6561

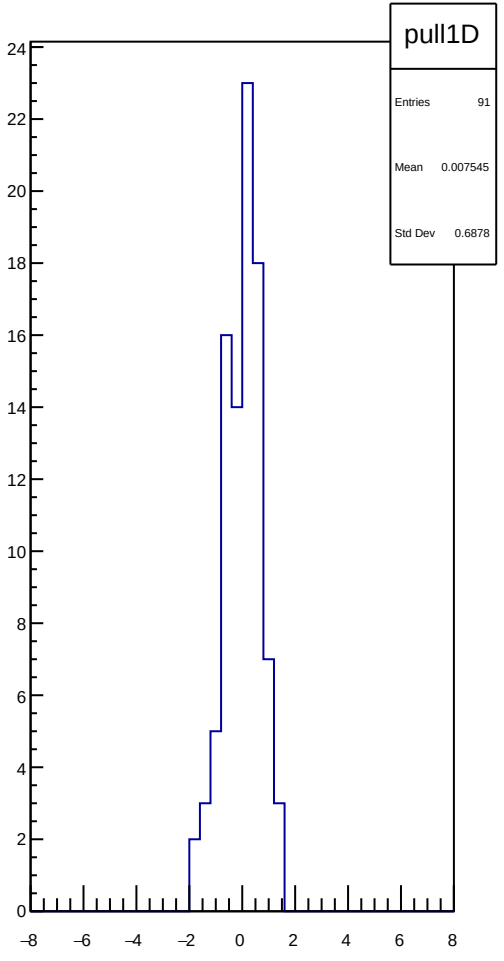

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 42.98 / 90
p0 14.72 ± 2.506
pull
Entries 91
Mean −482.1
Std Dev 0

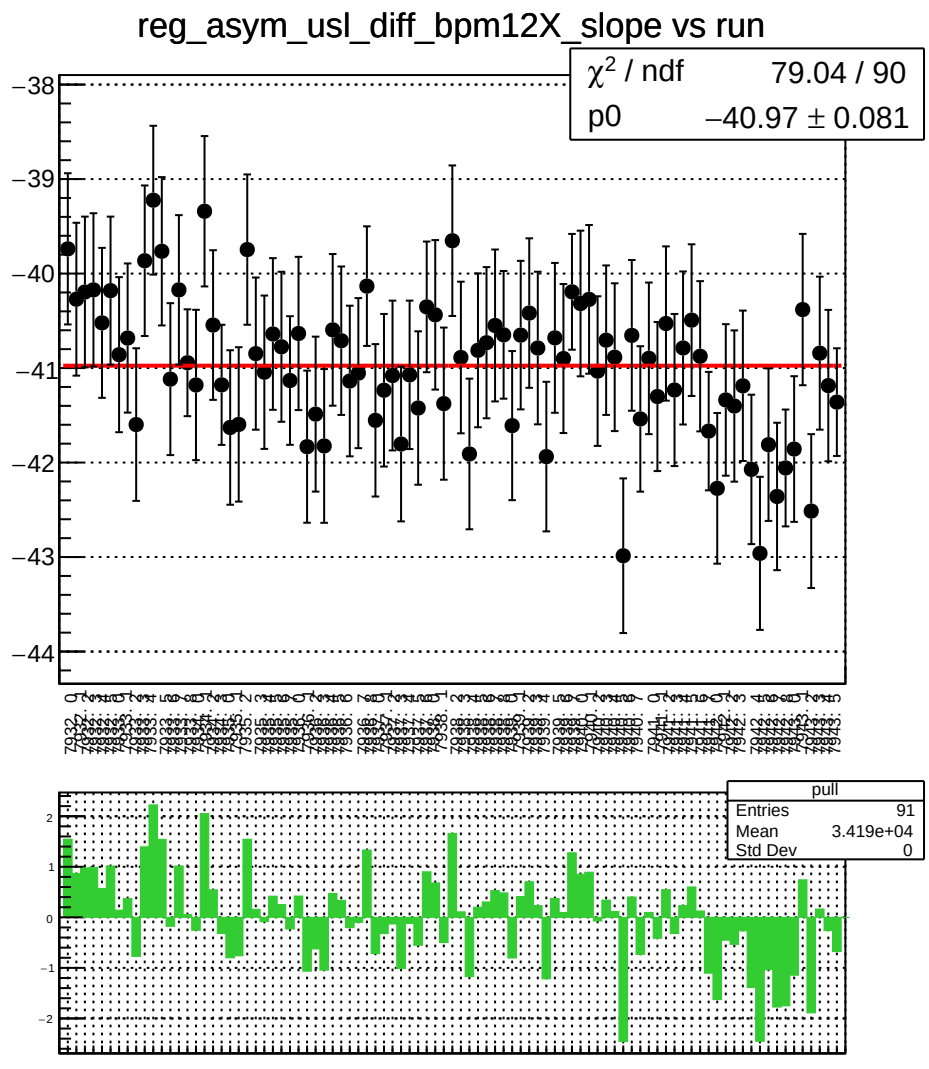

pull1D
Entries 91
Mean −0.006642
Std Dev 0.6872

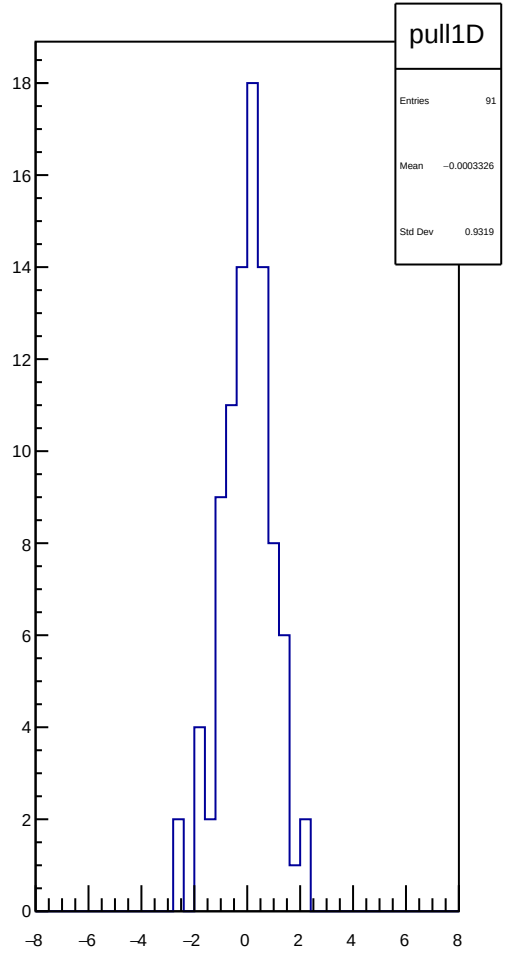

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 39.92 / 90
p0 −9.484 ± 2.163
pull
Entries 91
Mean −96.55
Std Dev 0

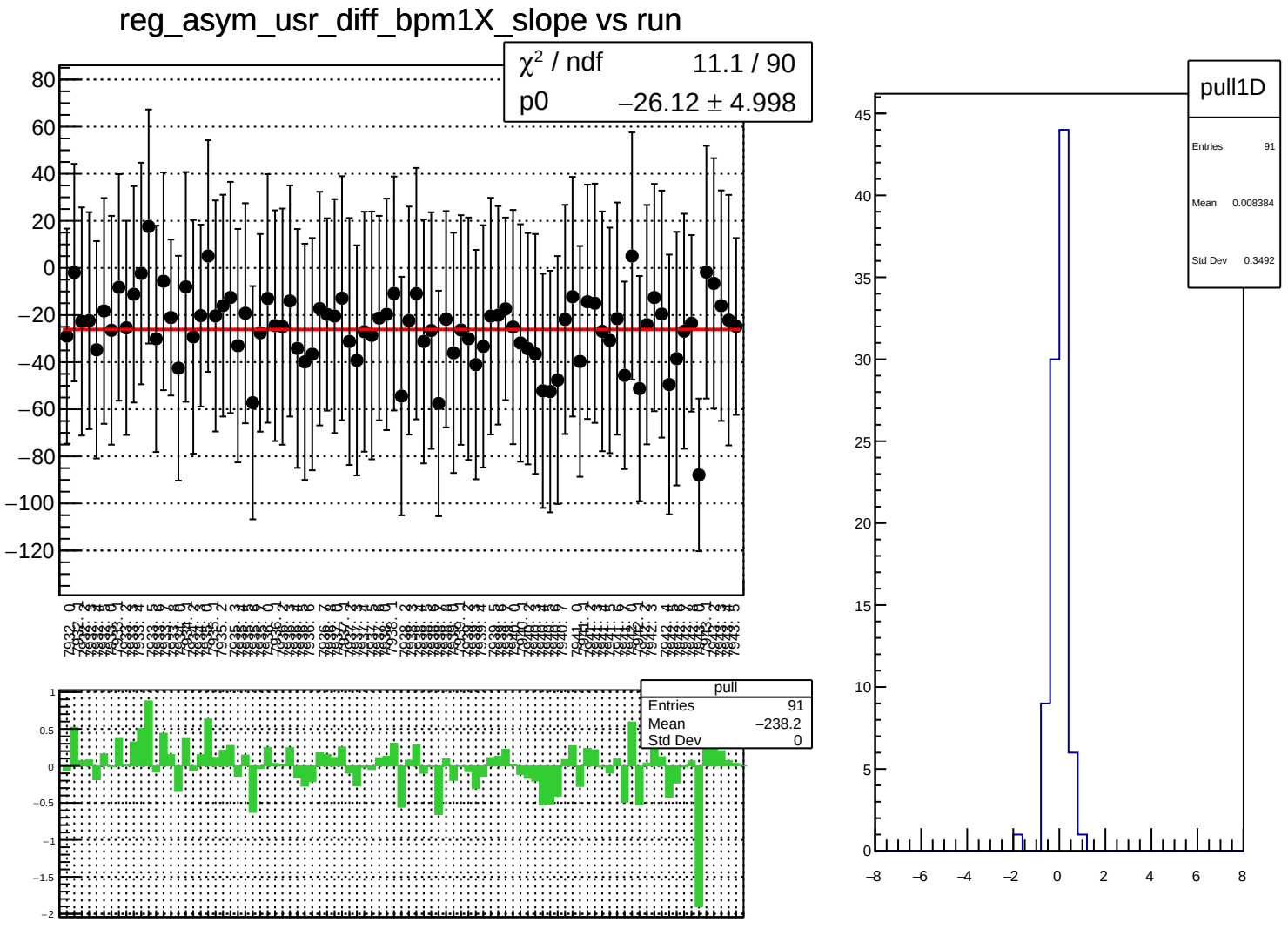

pull1D
Entries 91
Mean −0.018
Std Dev 0.662

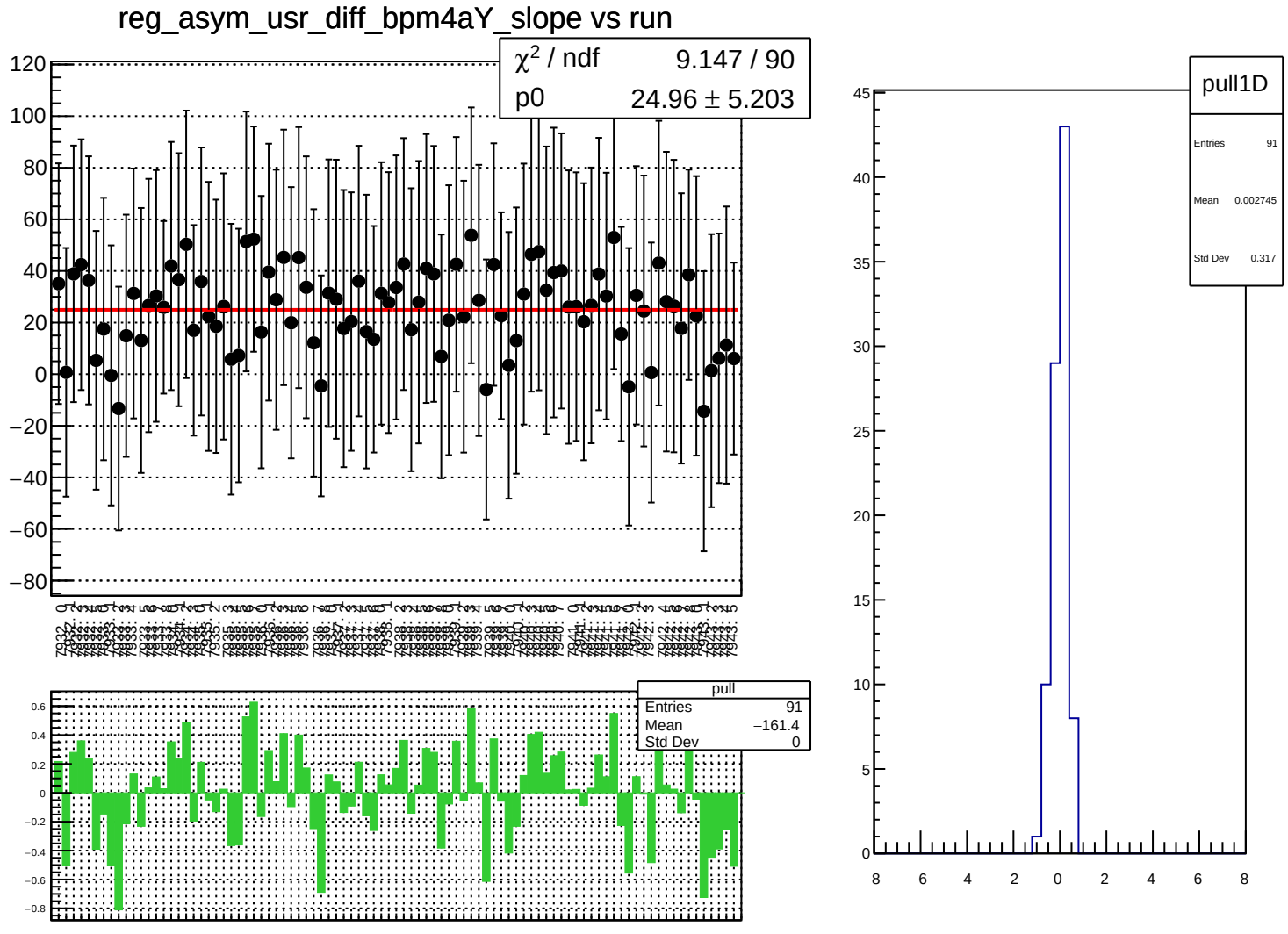

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 43.05 / 90
p0 12.97 ± 2.889
pull
Entries 91
Mean −388.5
Std Dev 0

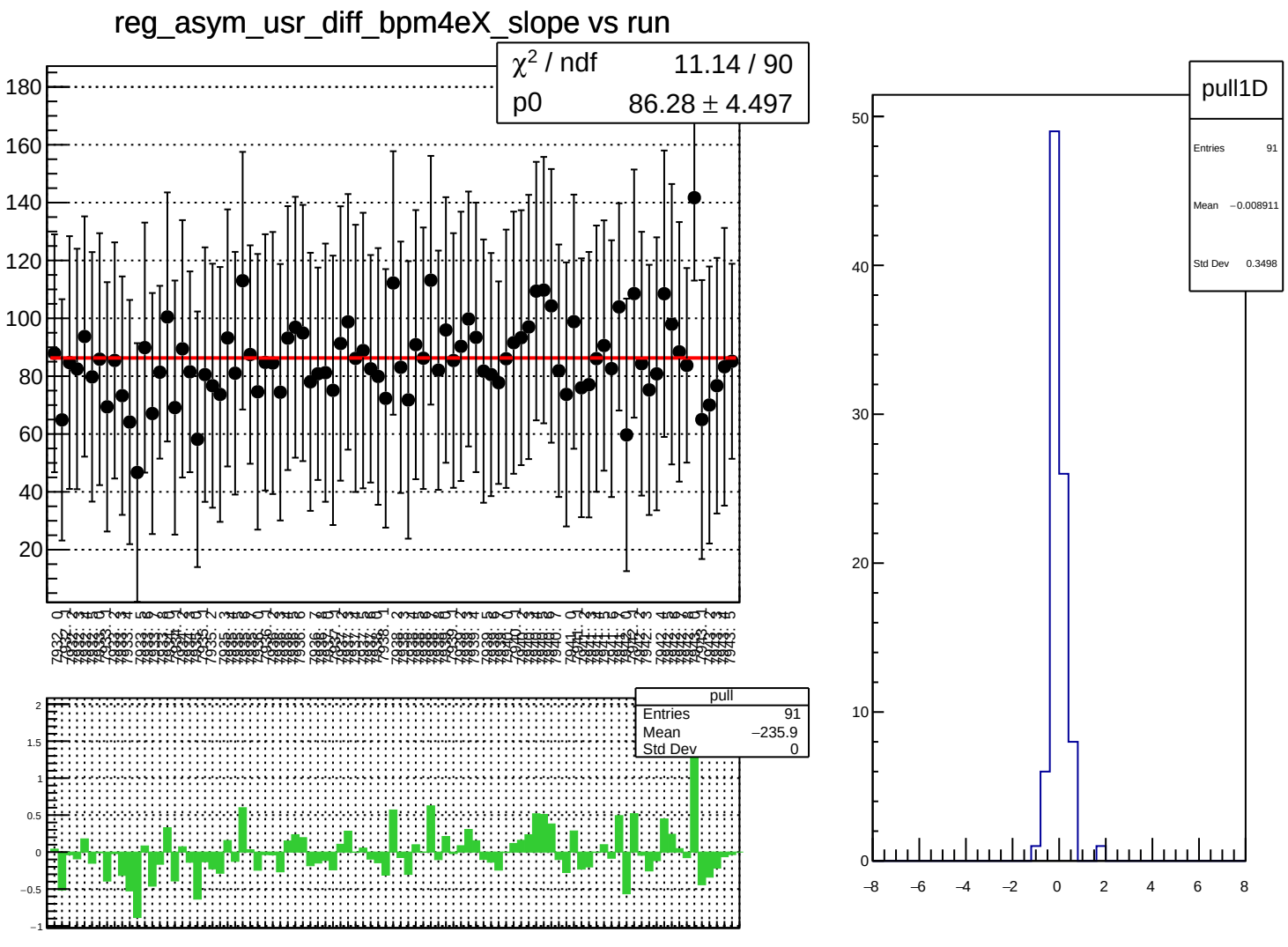

pull1D
Entries 91
Mean 0.007545
Std Dev 0.6878

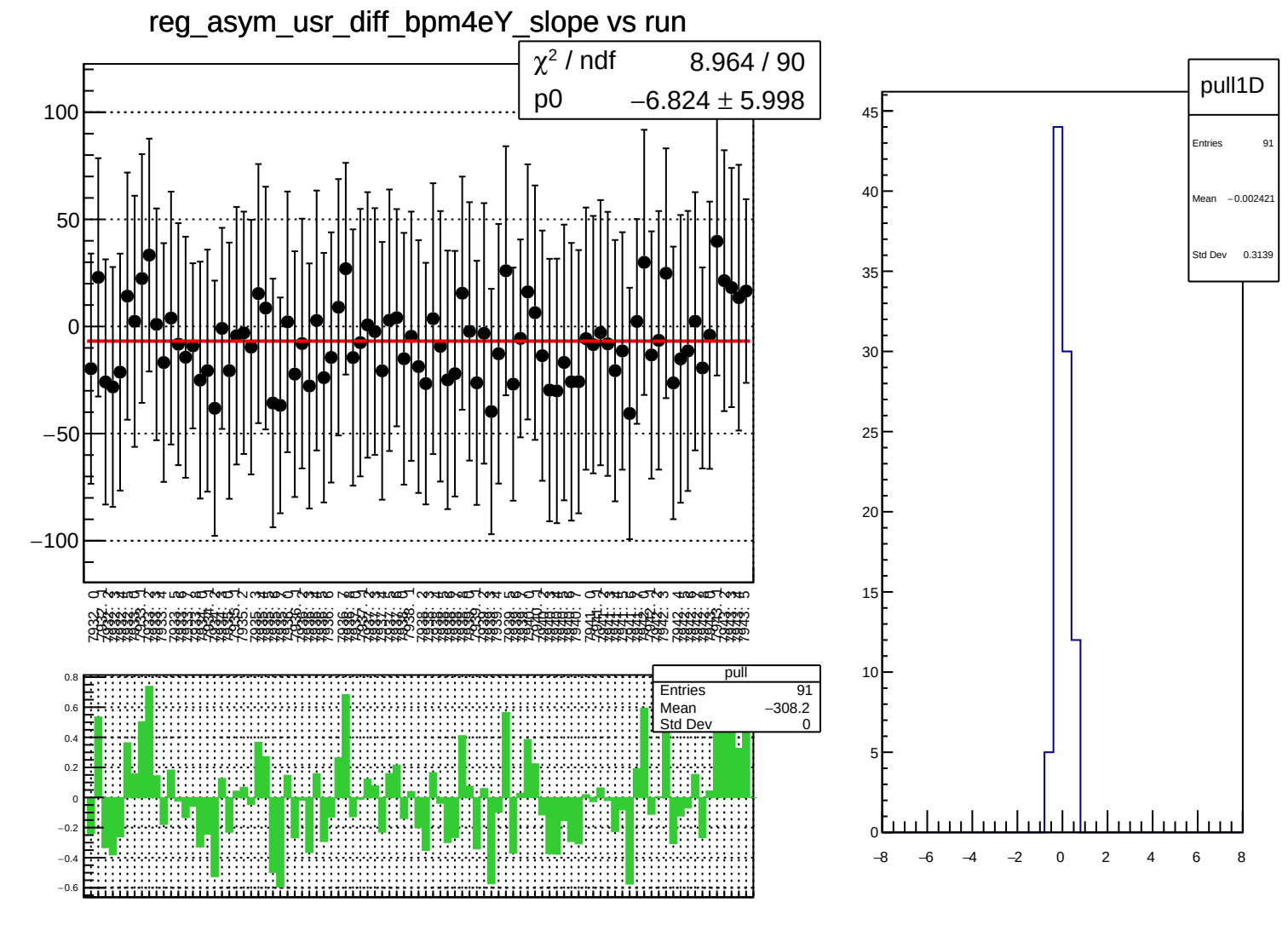

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 79.04 / 90
p0 −40.97 ± 0.081
pull
Entries 91
Mean 3.419e+04
Std Dev 0

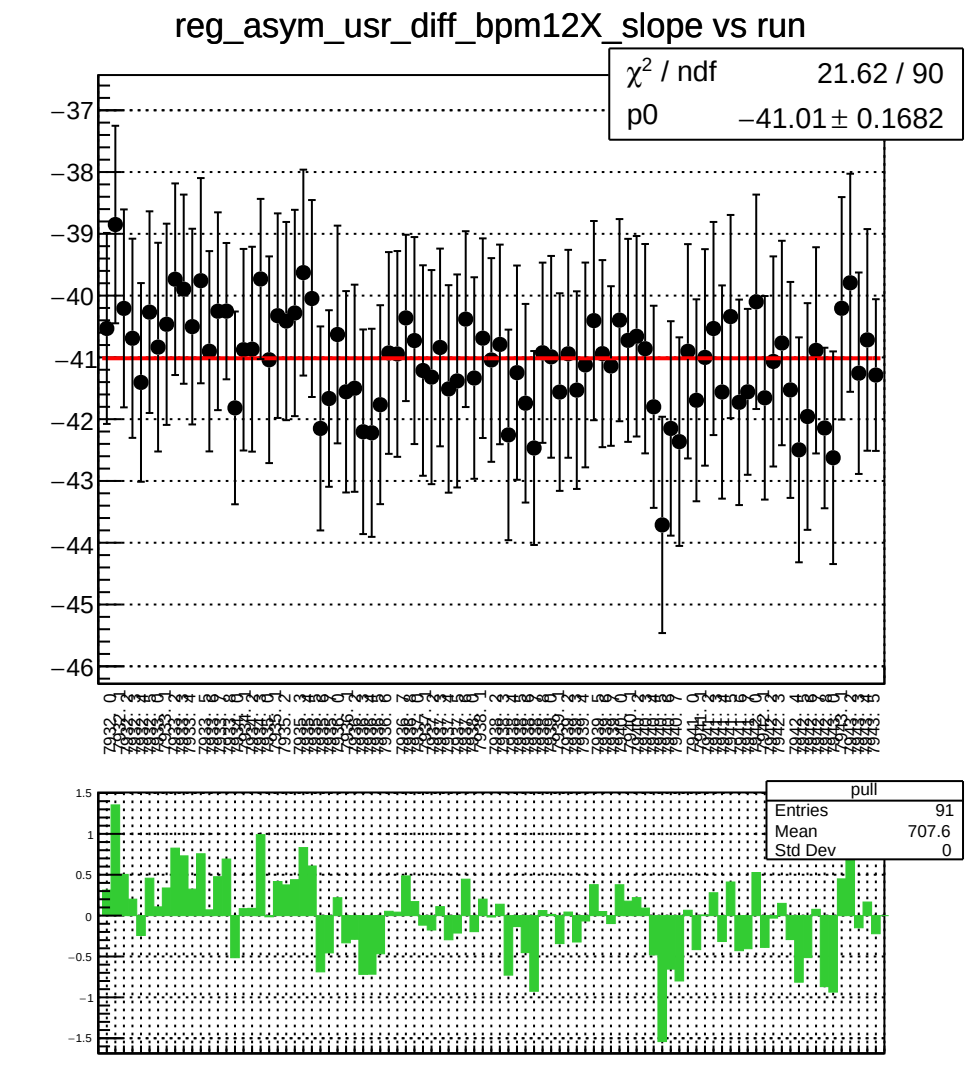

pull1D
Entries 91
Mean −0.0003326
Std Dev 0.9319

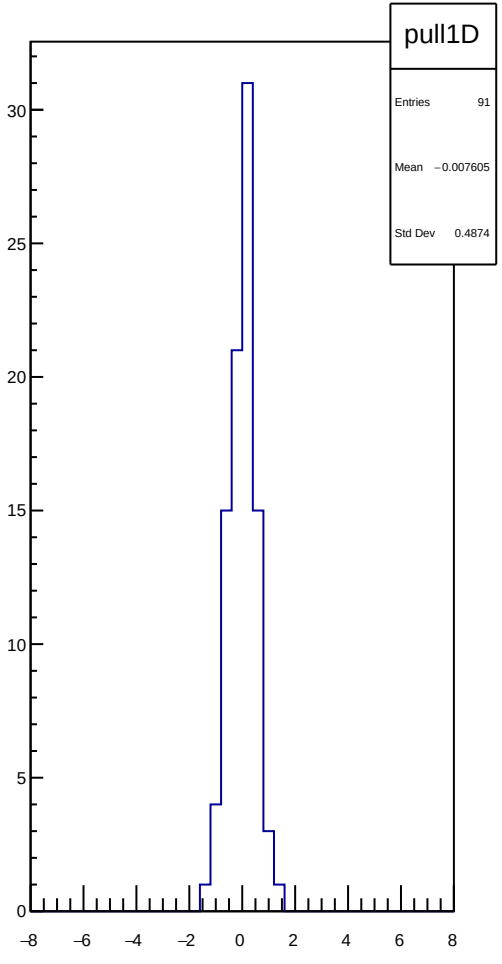

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 11.1 / 90
p0 −26.12 ± 4.998
pull
Entries 91
Mean −238.2
Std Dev 0
pull1D
Entries 91
Mean 0.008384
Std Dev 0.3492

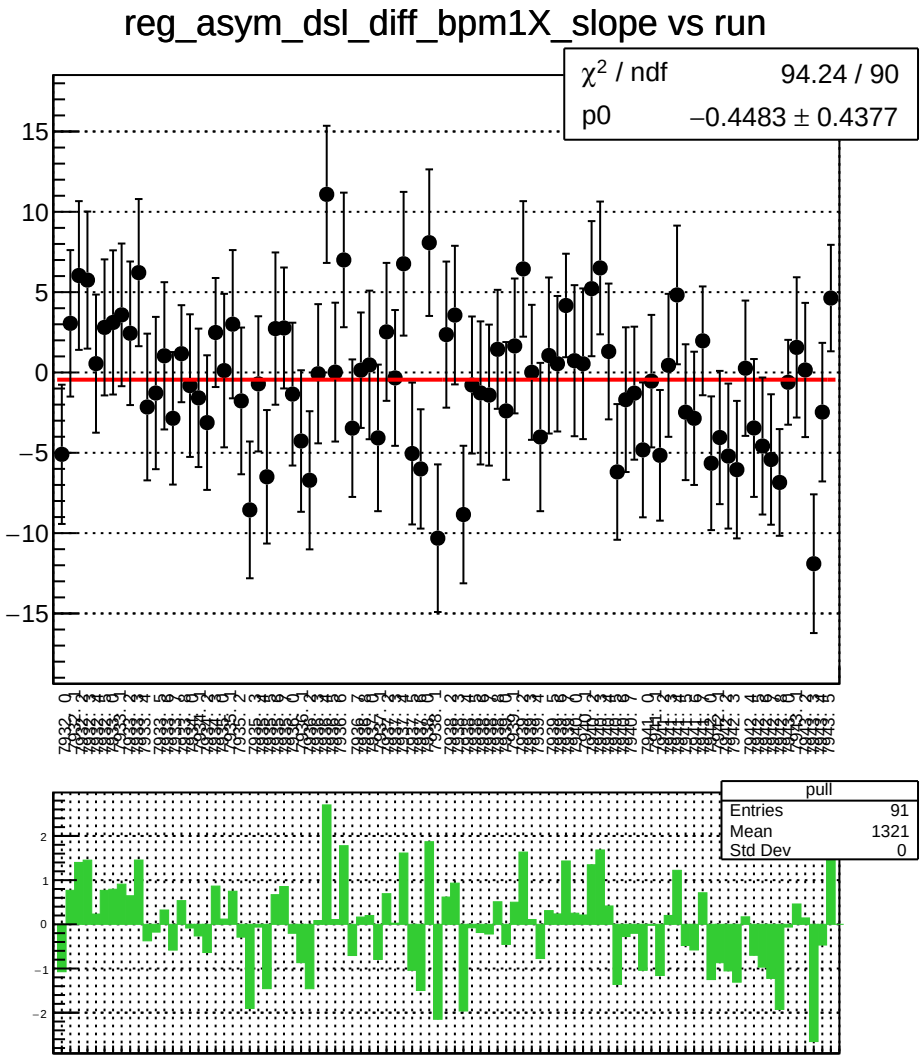

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.147 / 90
p0 24.96 ± 5.203
pull
Entries 91
Mean −161.4
Std Dev 0
pull1D
Entries 91
Mean 0.002745
Std Dev 0.317

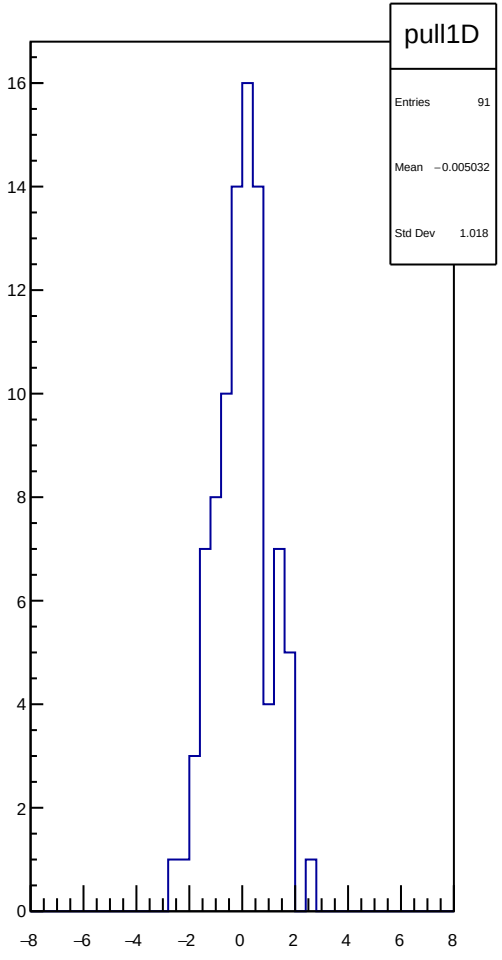

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.14 / 90
p0 86.28 ± 4.497
pull
Entries 91
Mean −235.9
Std Dev 0
pull1D
Entries 91
Mean −0.008911
Std Dev 0.3498

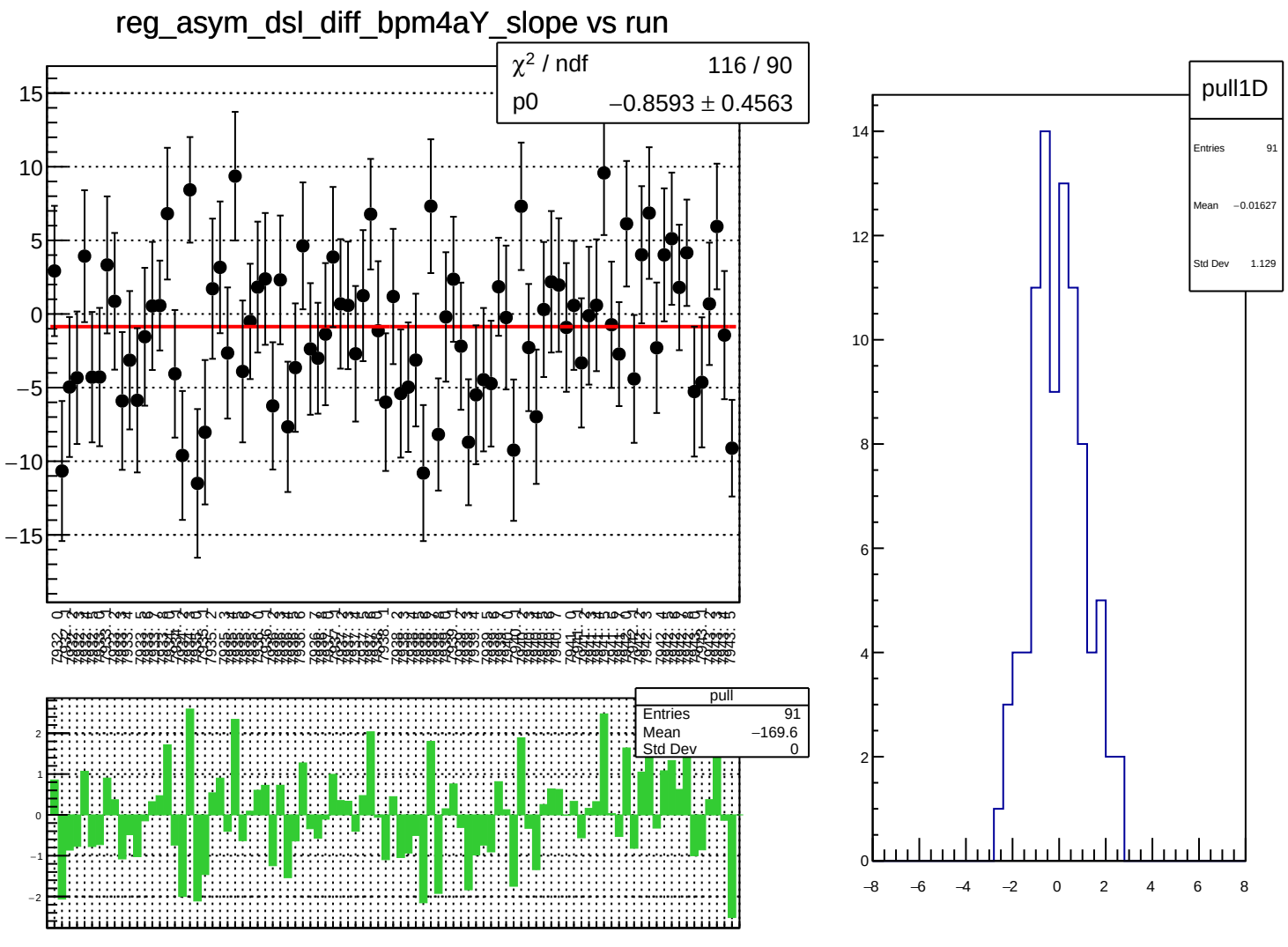

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 8.964 / 90
p0 −6.824 ± 5.998
pull
Entries 91
Mean −308.2
Std Dev 0
pull1D
Entries 91
Mean −0.002421
Std Dev 0.3139

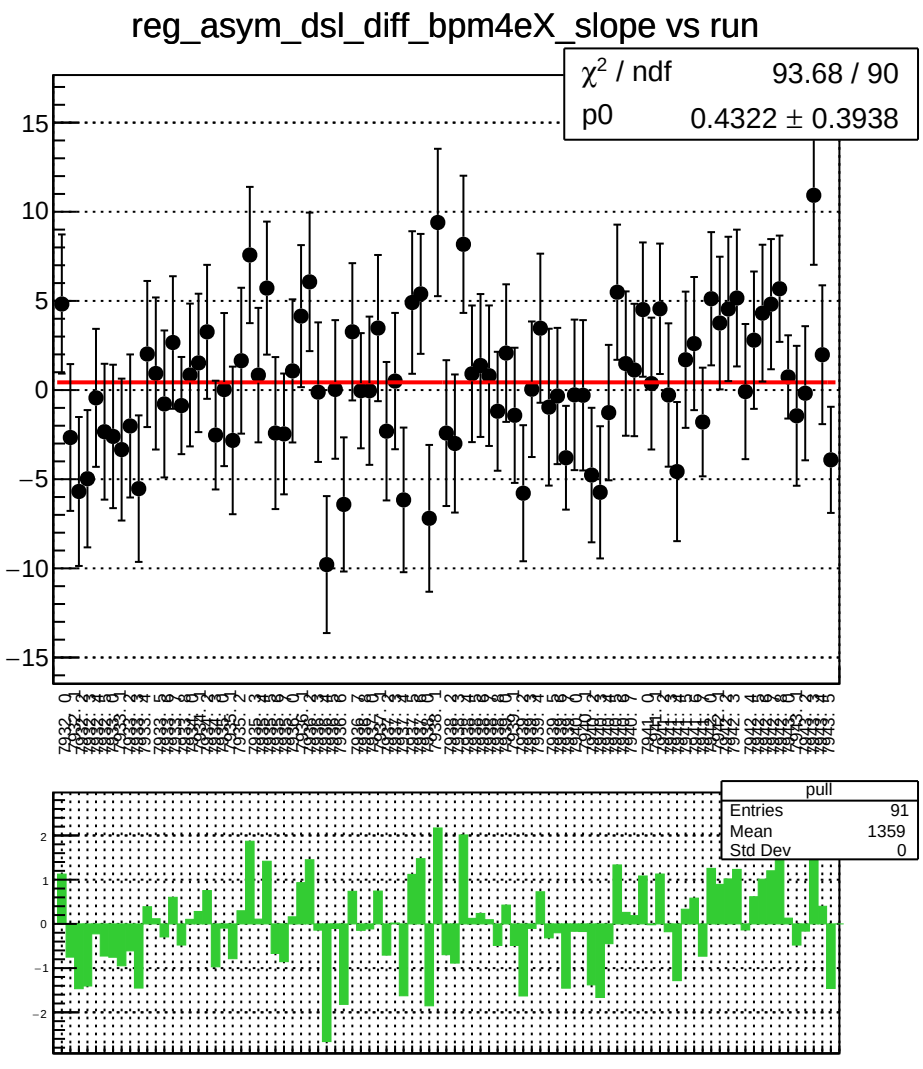

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 21.62 / 90
p0 −41.01 ± 0.1682
pull
Entries 91
Mean 707.6
Std Dev 0

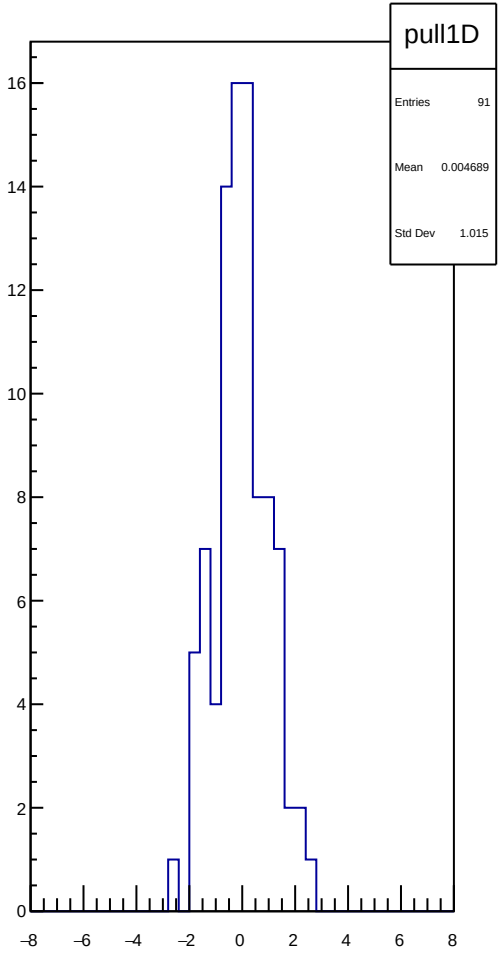

pull1D
Entries 91
Mean −0.007605
Std Dev 0.4874

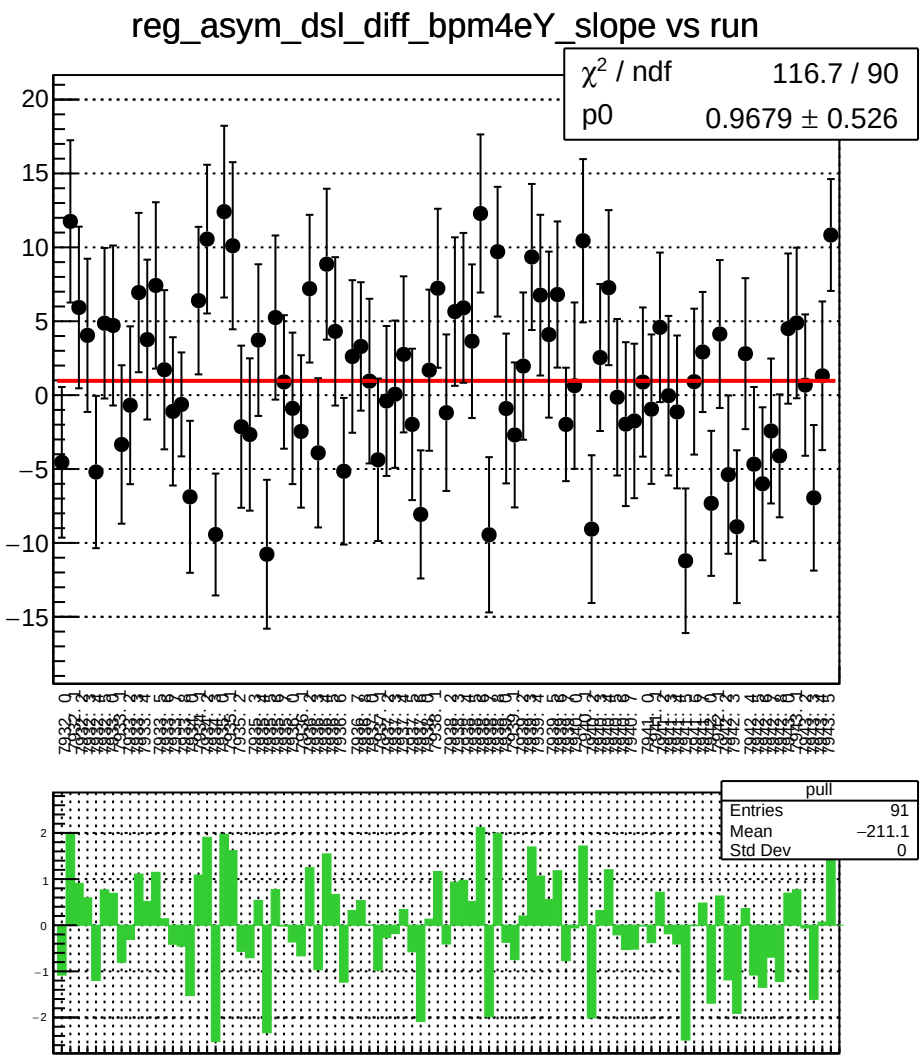

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 94.24 / 90
p0 −0.4483 ± 0.4377
pull
Entries 91
Mean 1321
Std Dev 0

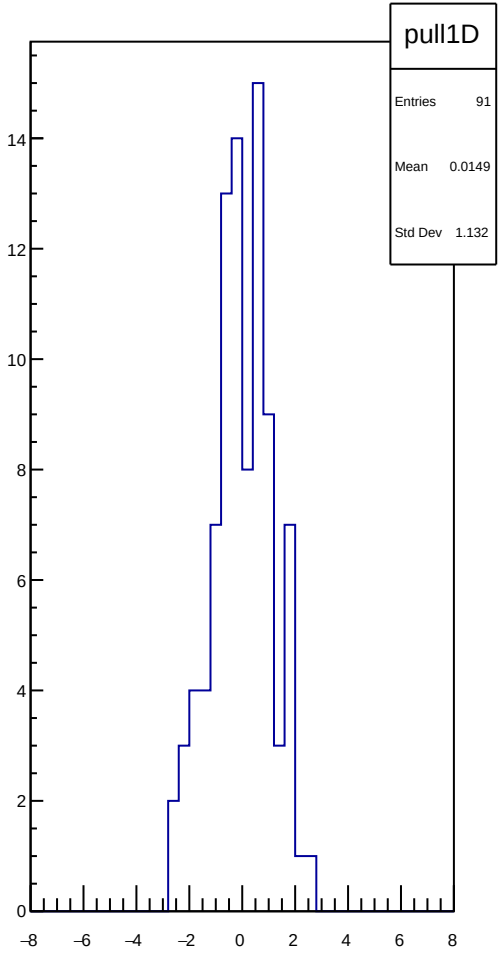

pull1D
Entries 91
Mean −0.005032
Std Dev 1.018

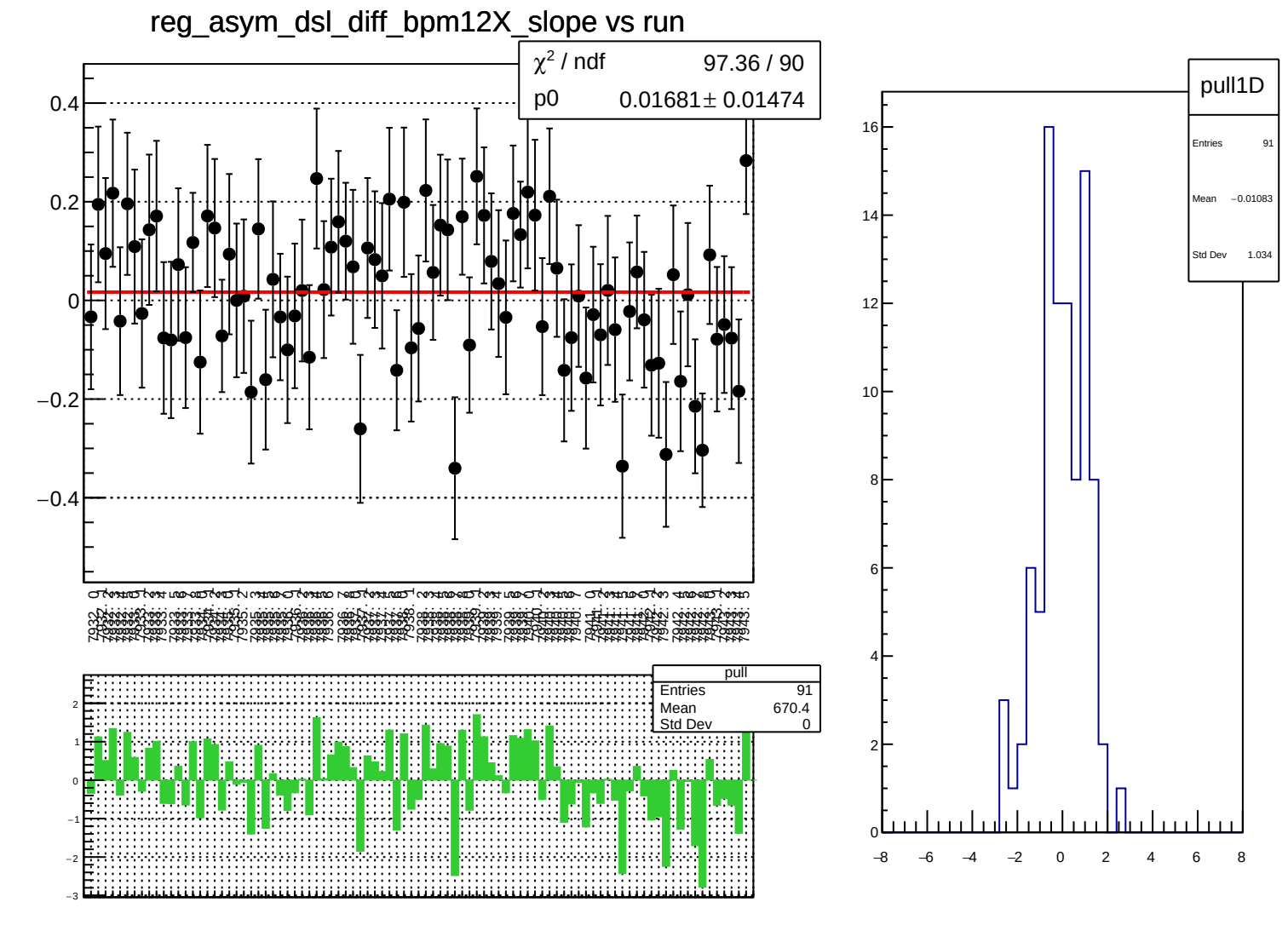

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 116 / 90
p0 −0.8593 ± 0.4563
pull
Entries 91
Mean −169.6
Std Dev 0
pull1D
Entries 91
Mean −0.01627
Std Dev 1.129

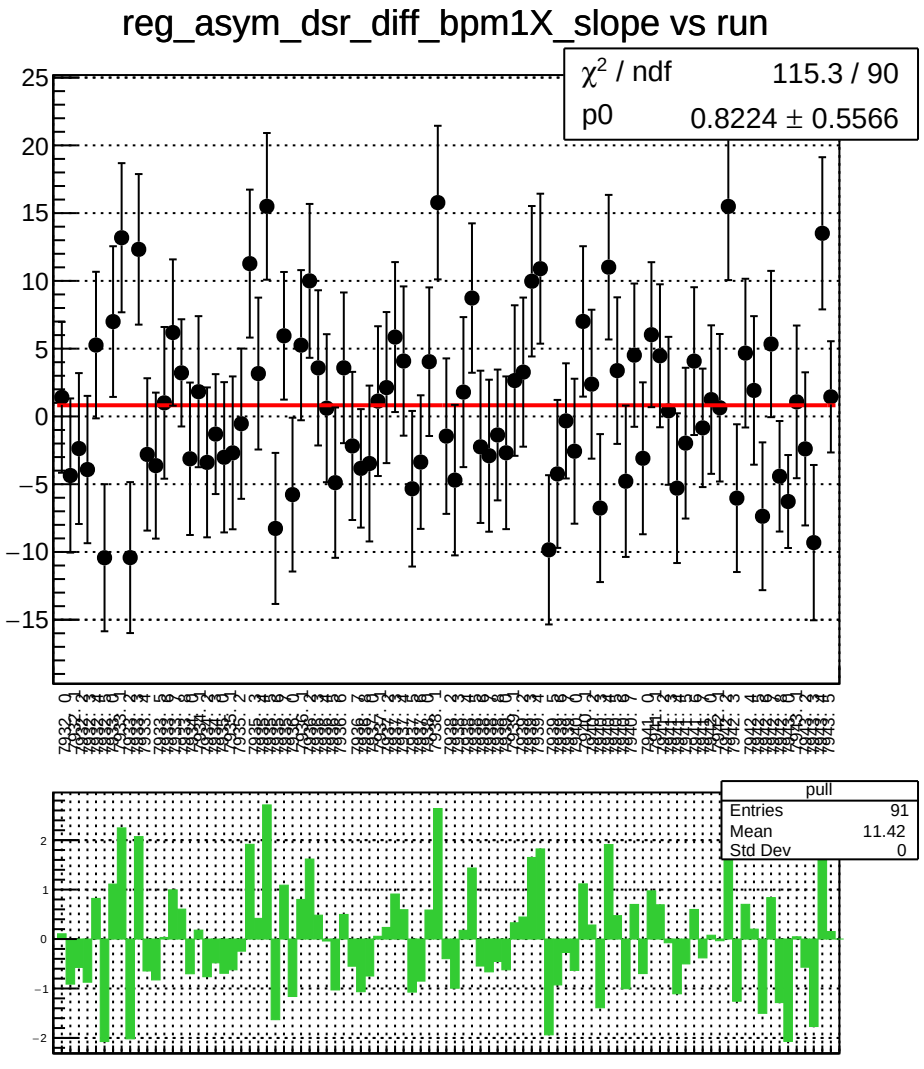

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 93.68 / 90
p0 0.4322 ± 0.3938
pull
Entries 91
Mean 1359
Std Dev 0

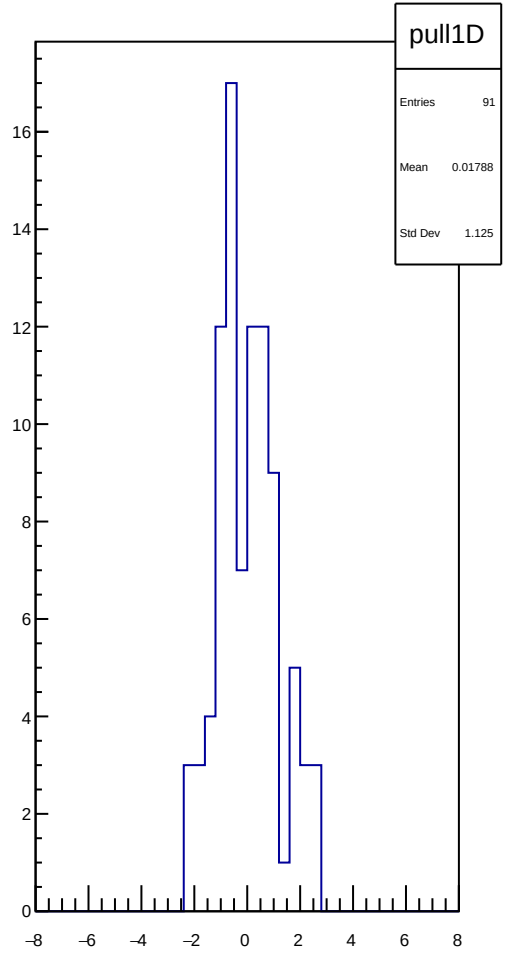

pull1D
Entries 91
Mean 0.004689
Std Dev 1.015

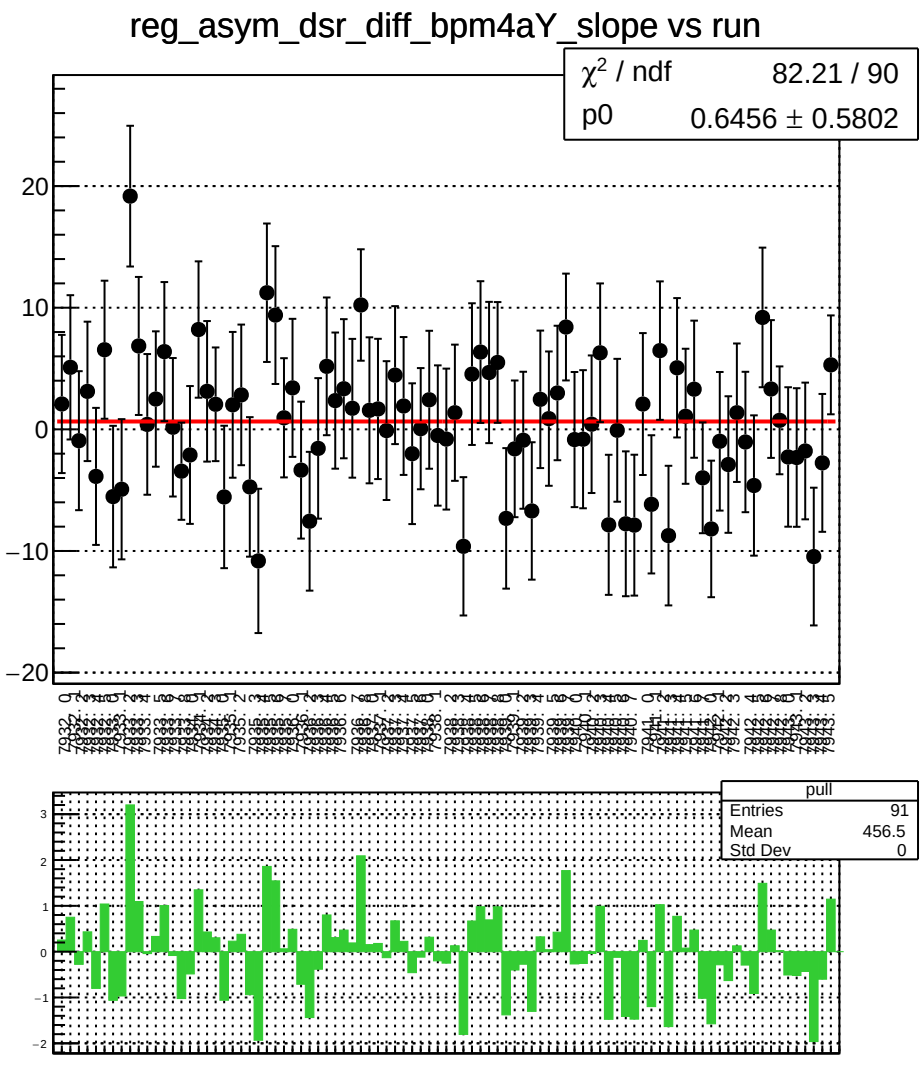

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 116.7 / 90
p0 0.9679 ± 0.526
pull
Entries 91
Mean −211.1
Std Dev 0

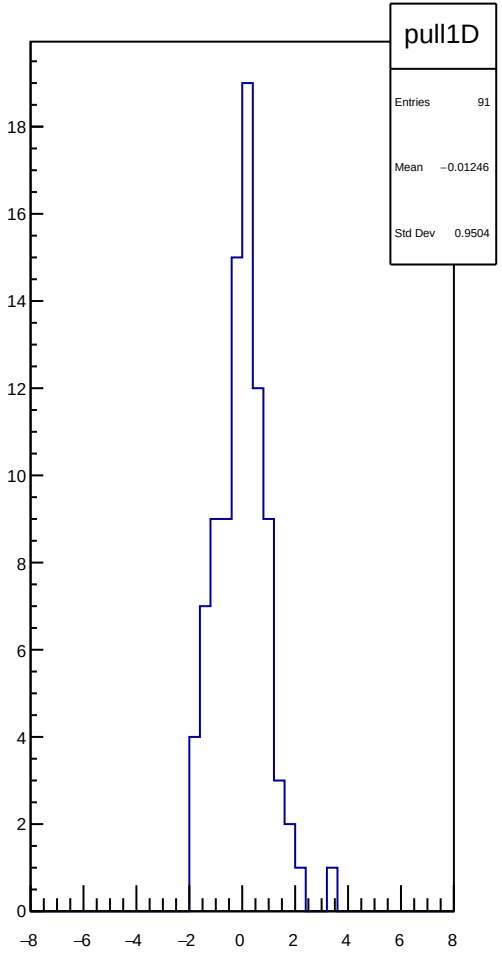

pull1D
Entries 91
Mean 0.0149
Std Dev 1.132

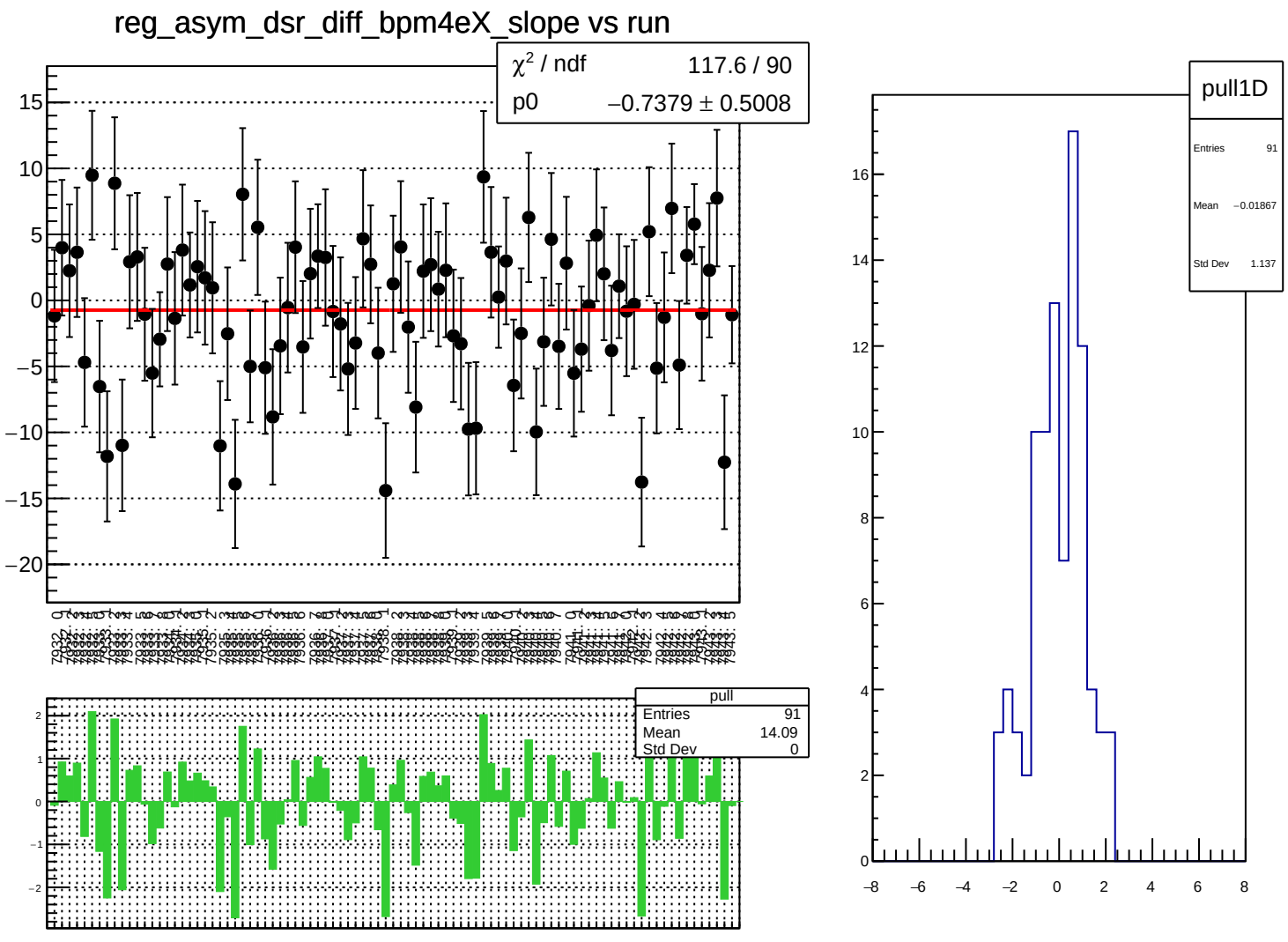

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 97.36 / 90
p0 0.01681 ± 0.01474
pull
Entries 91
Mean 670.4
Std Dev 0
pull1D
Entries 91
Mean −0.01083
Std Dev 1.034

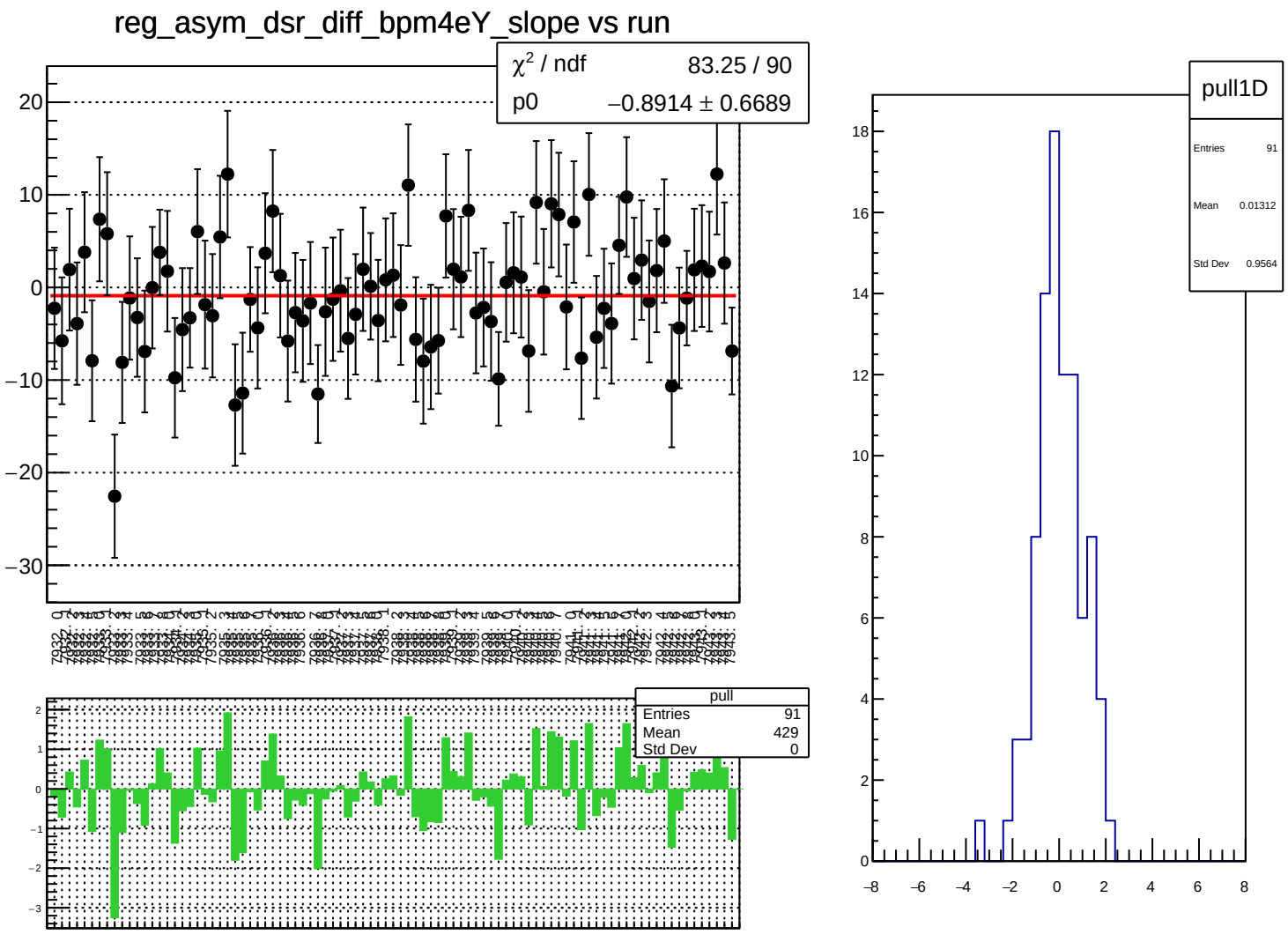

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 115.3 / 90
p0 0.8224 ± 0.5566
pull
Entries 91
Mean 11.42
Std Dev 0

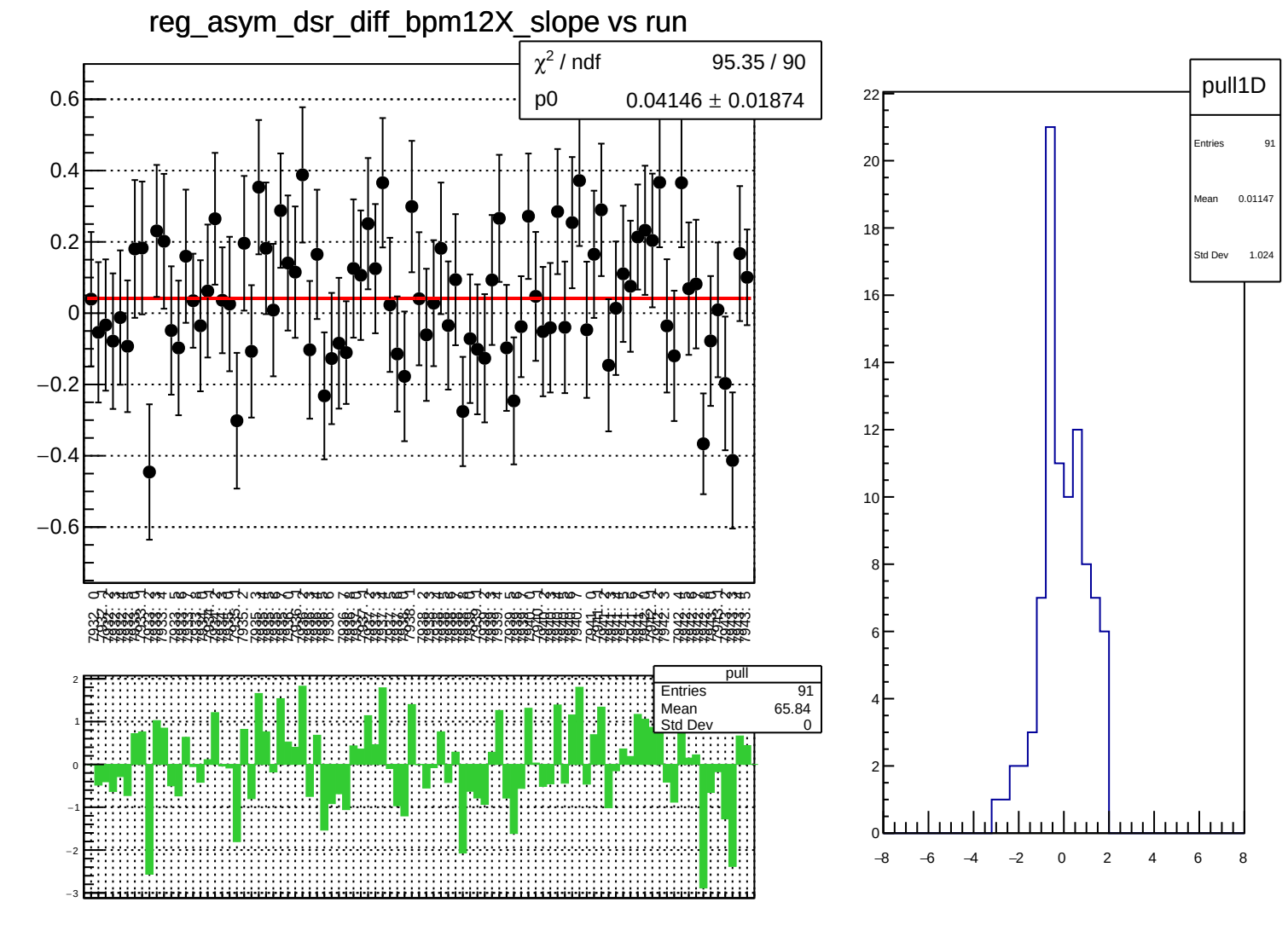

pull1D
Entries 91
Mean 0.01788
Std Dev 1.125

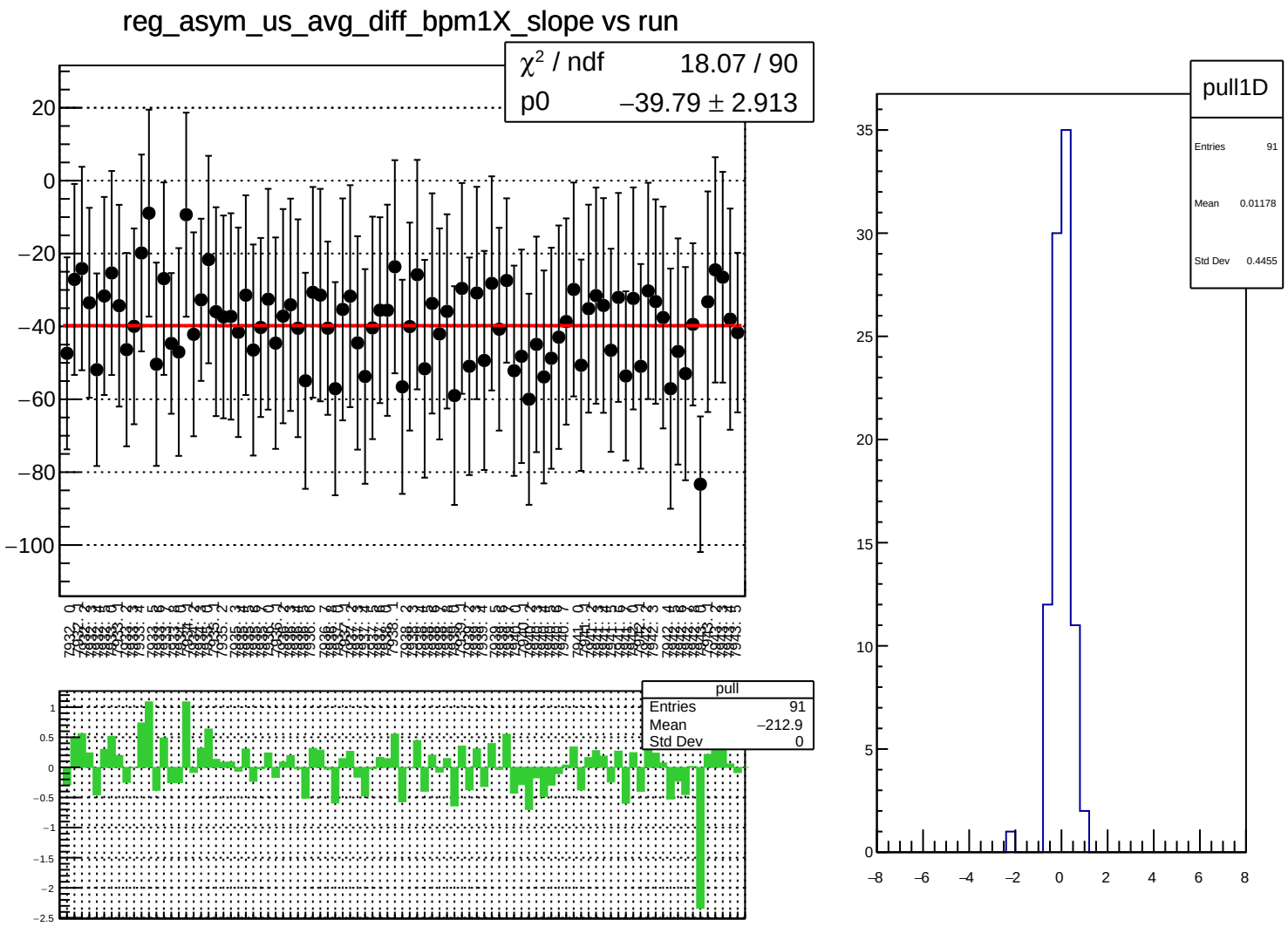

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 82.21 / 90
p0 0.6456 ± 0.5802
pull
Entries 91
Mean 456.5
Std Dev 0

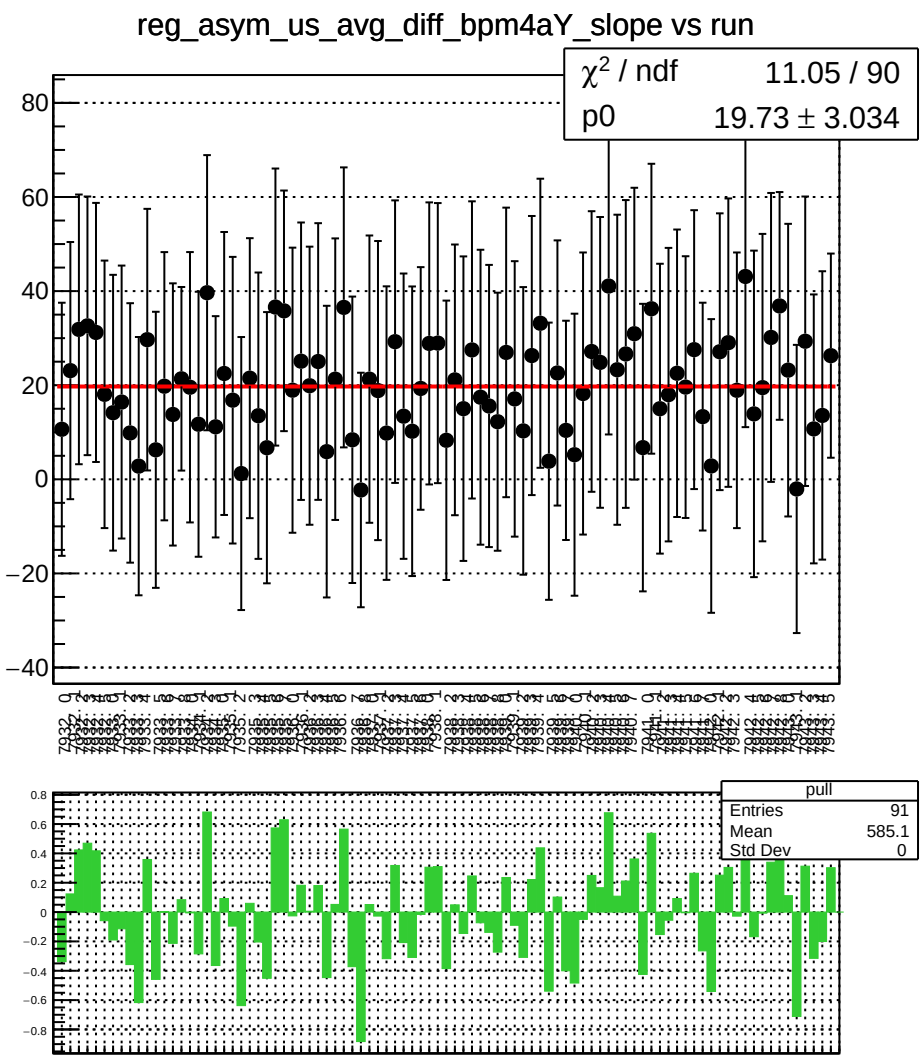

pull1D
Entries 91
Mean −0.01246
Std Dev 0.9504

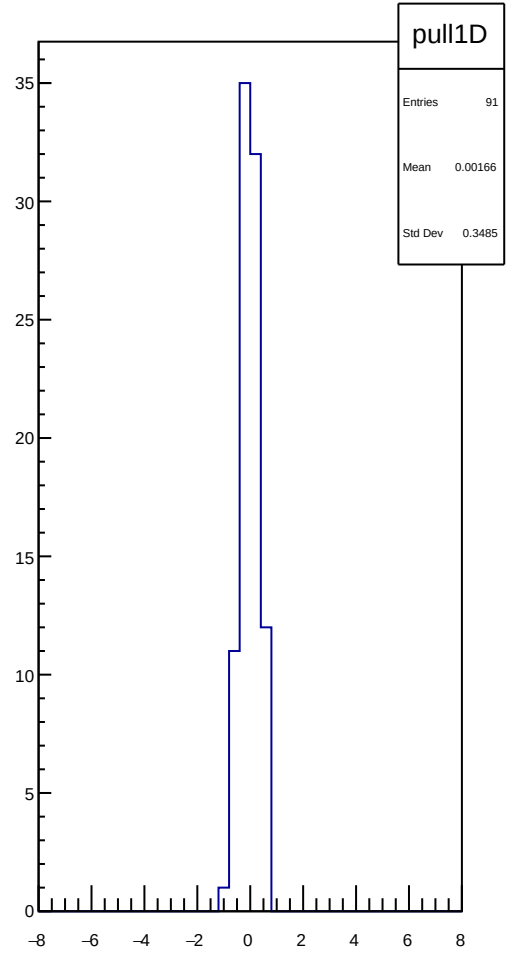

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 117.6 / 90
p0 −0.7379 ± 0.5008
pull
Entries 91
Mean 14.09
Std Dev 0
pull1D
Entries 91
Mean −0.01867
Std Dev 1.137

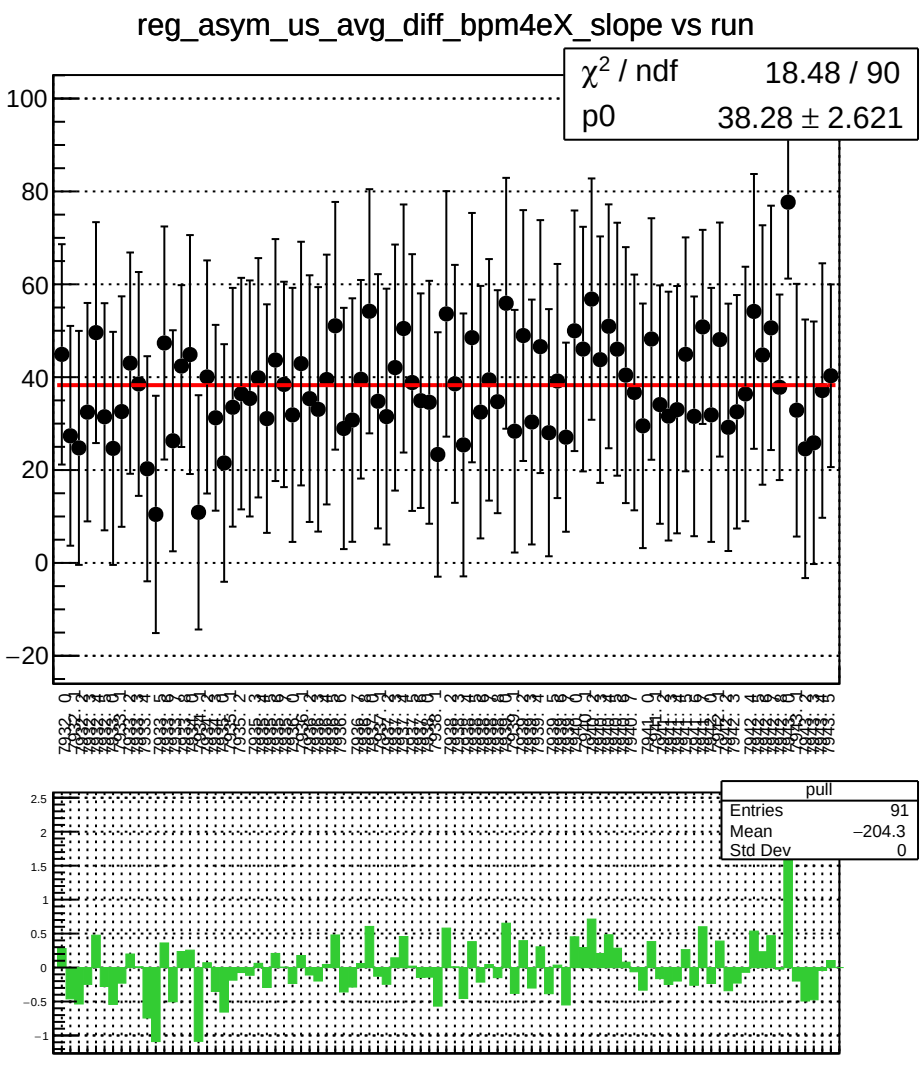

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 83.25 / 90
p0 −0.8914 ± 0.6689
pull
Entries 91
Mean 429
Std Dev 0
pull1D
Entries 91
Mean 0.01312
Std Dev 0.9564

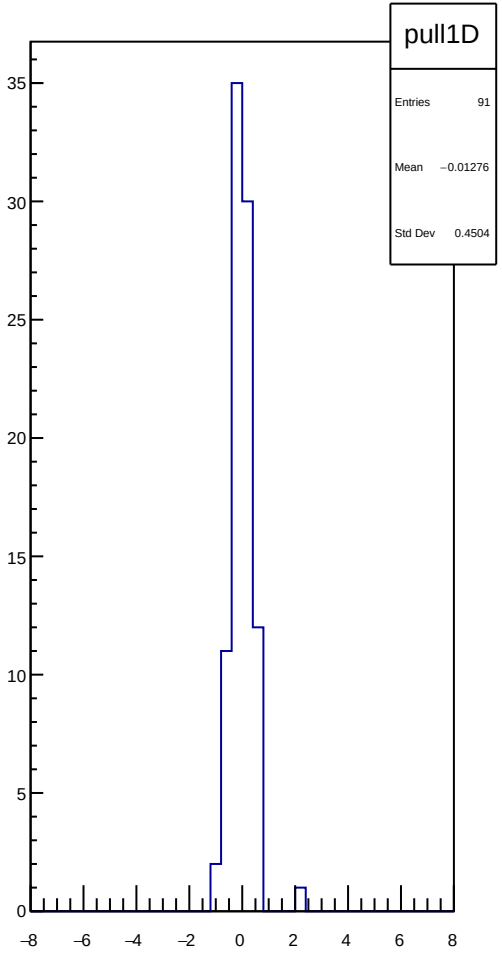

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 95.35 / 90
p0 0.04146 ± 0.01874
pull
Entries 91
Mean 65.84
Std Dev 0
pull1D
Entries 91
Mean 0.01147
Std Dev 1.024

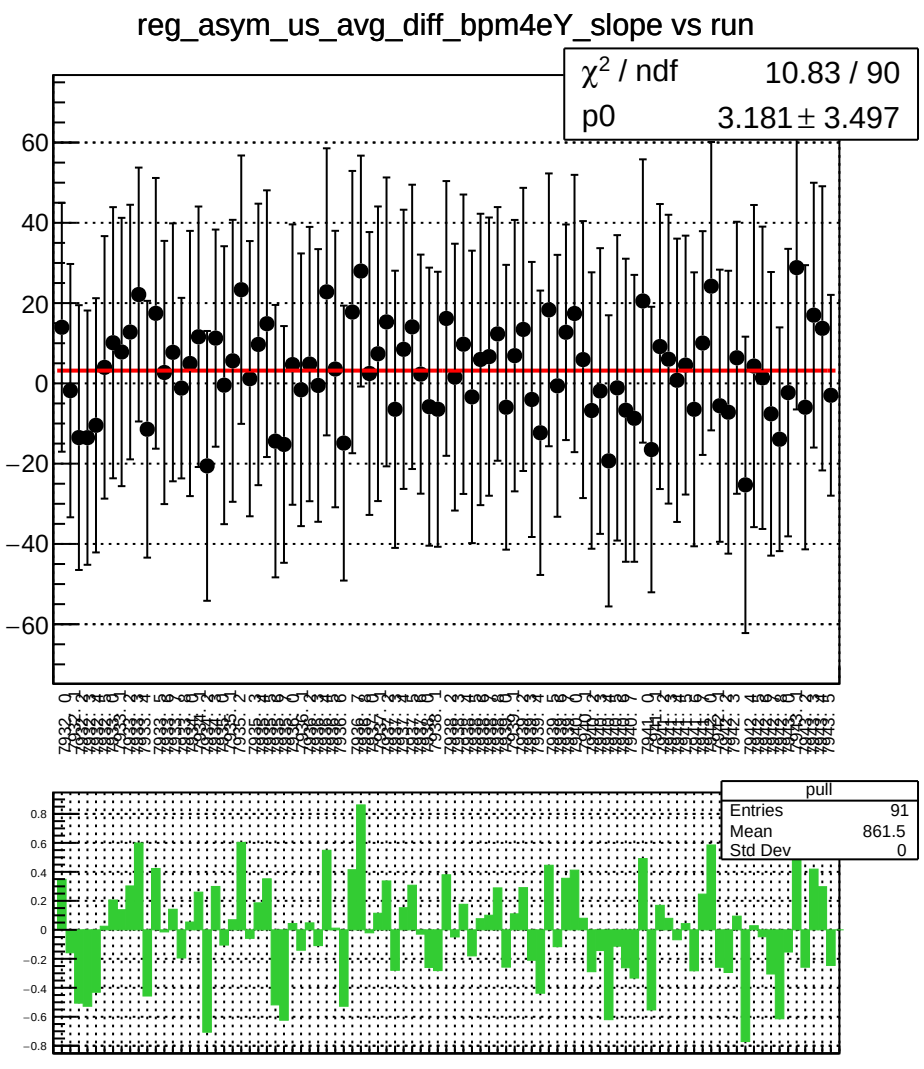

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 18.07 / 90
p0 −39.79 ± 2.913
pull
Entries 91
Mean −212.9
Std Dev 0
pull1D
Entries 91
Mean 0.01178
Std Dev 0.4455

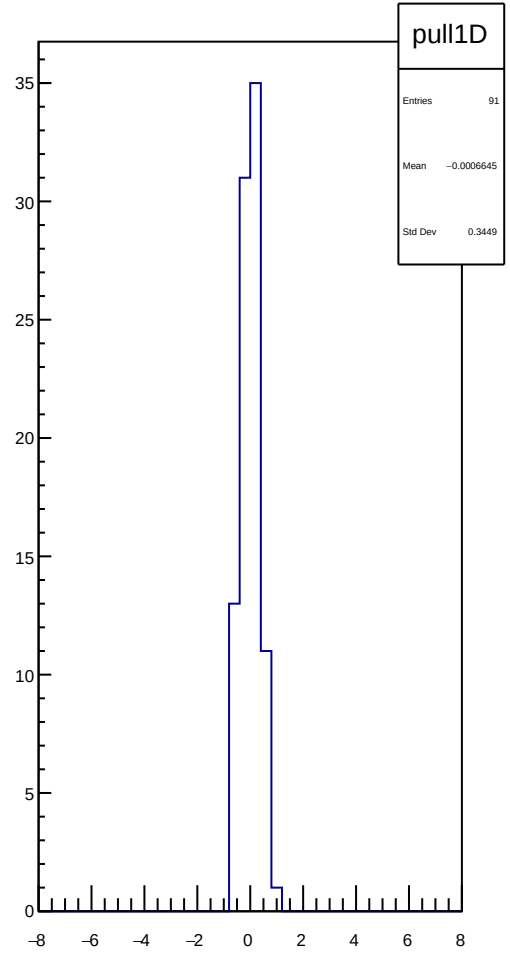

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.05 / 90
p0 19.73 ± 3.034
pull
Entries 91
Mean 585.1
Std Dev 0

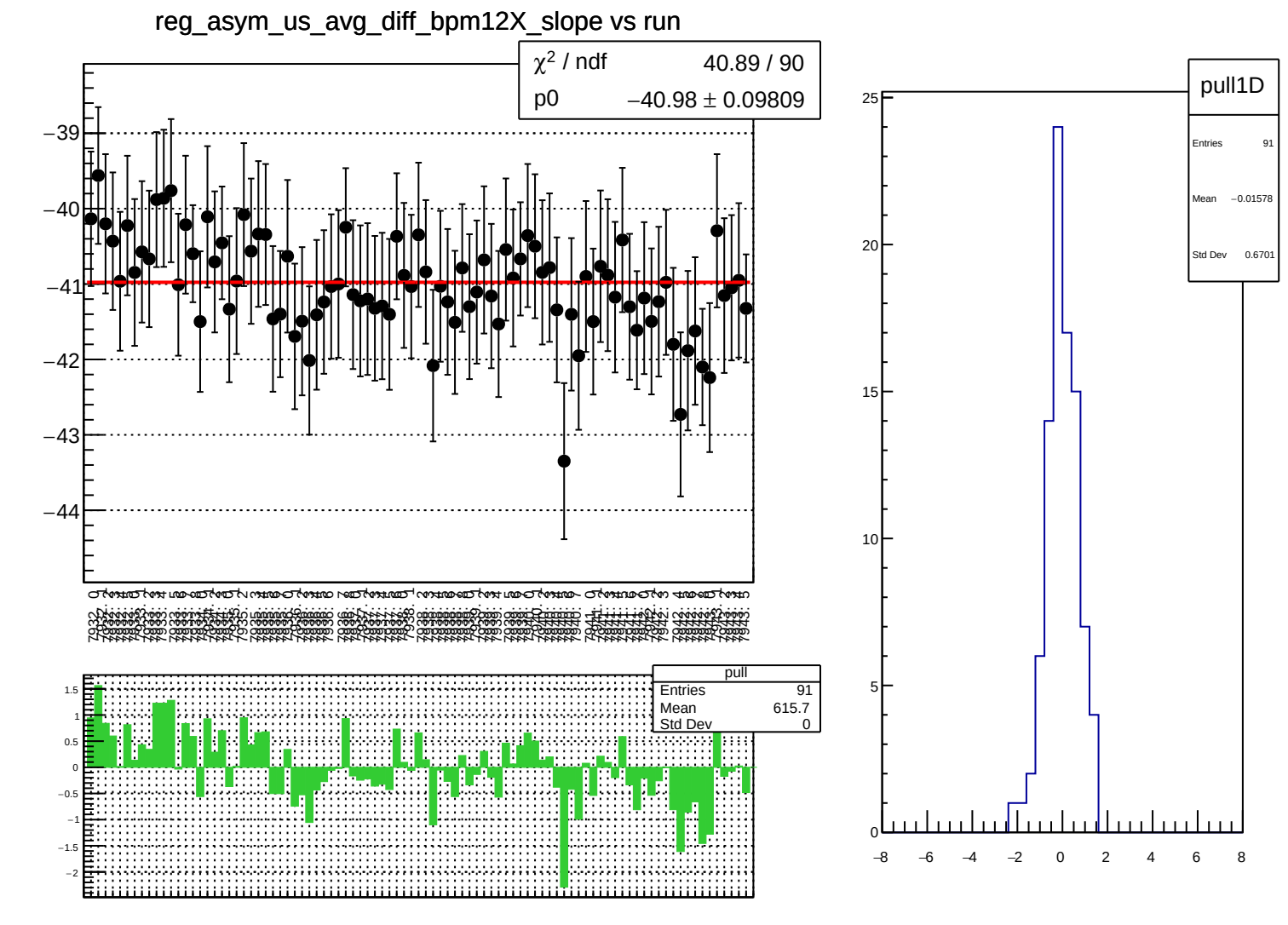

pull1D
Entries 91
Mean 0.00166
Std Dev 0.3485

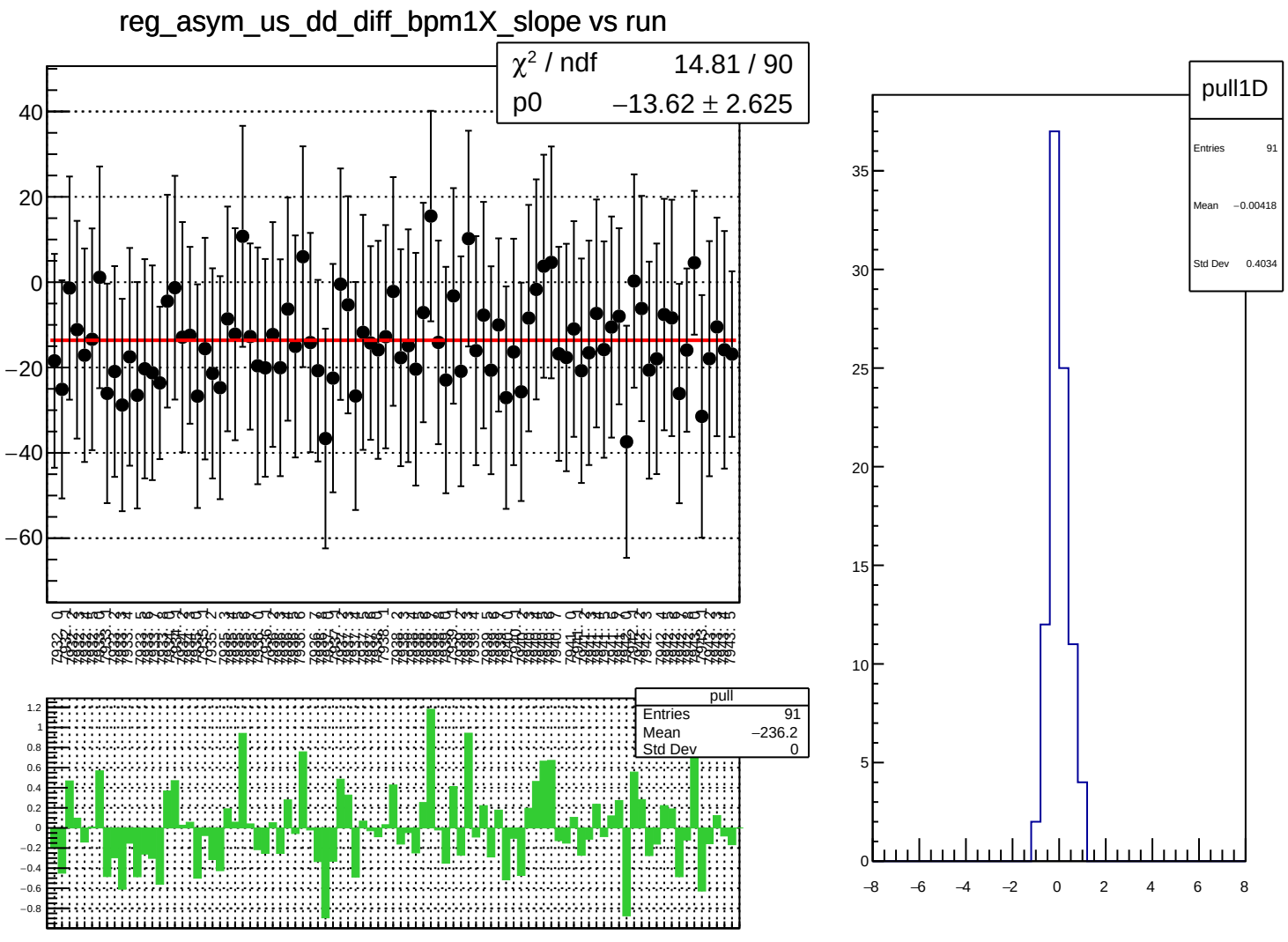

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.48 / 90
p0 38.28 ± 2.621
pull
Entries 91
Mean −204.3
Std Dev 0

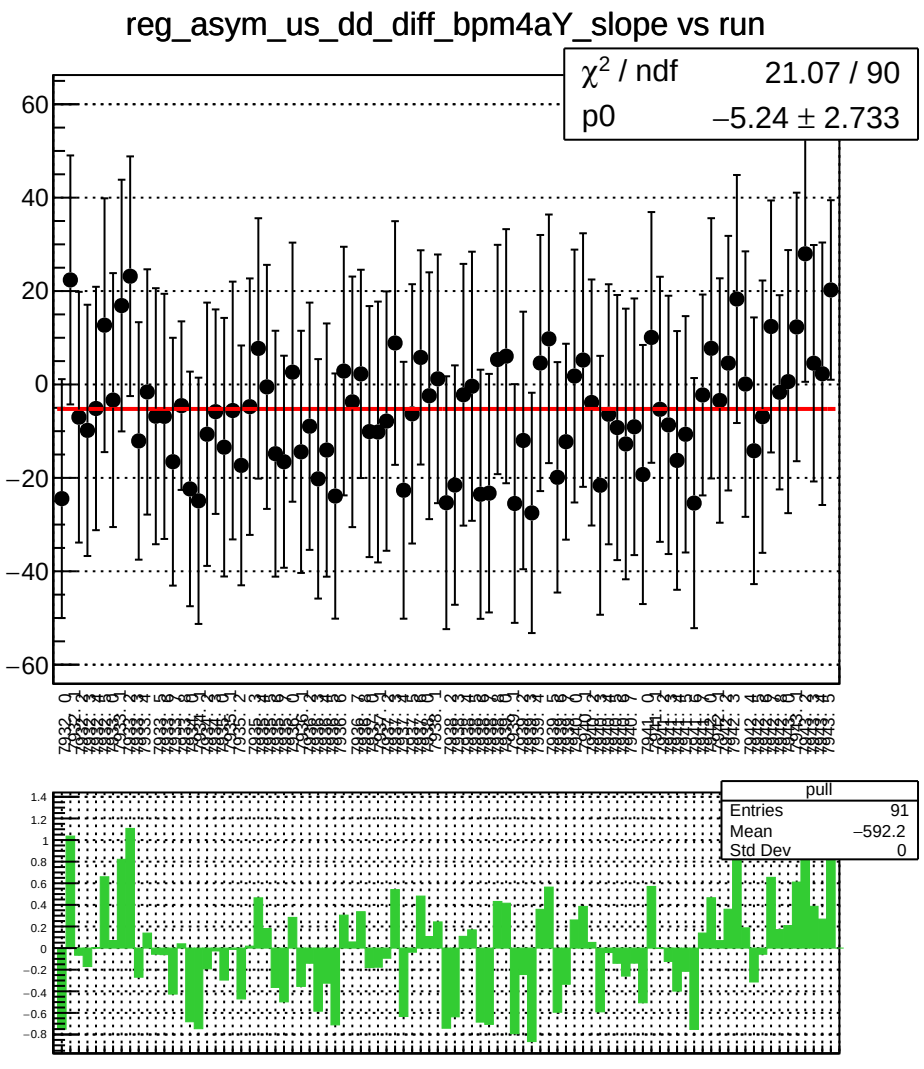

pull1D
Entries 91
Mean −0.01276
Std Dev 0.4504

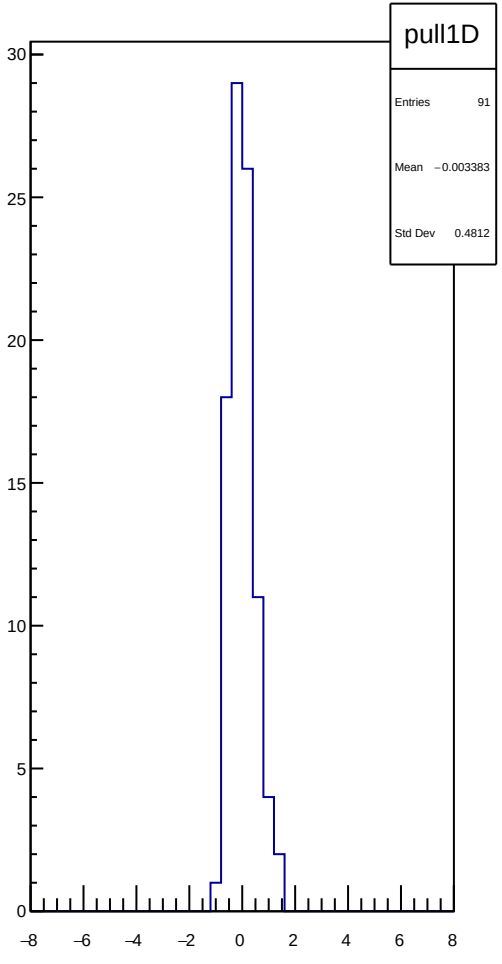

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.83 / 90
p0 3.181 ± 3.497
pull
Entries 91
Mean 861.5
Std Dev 0

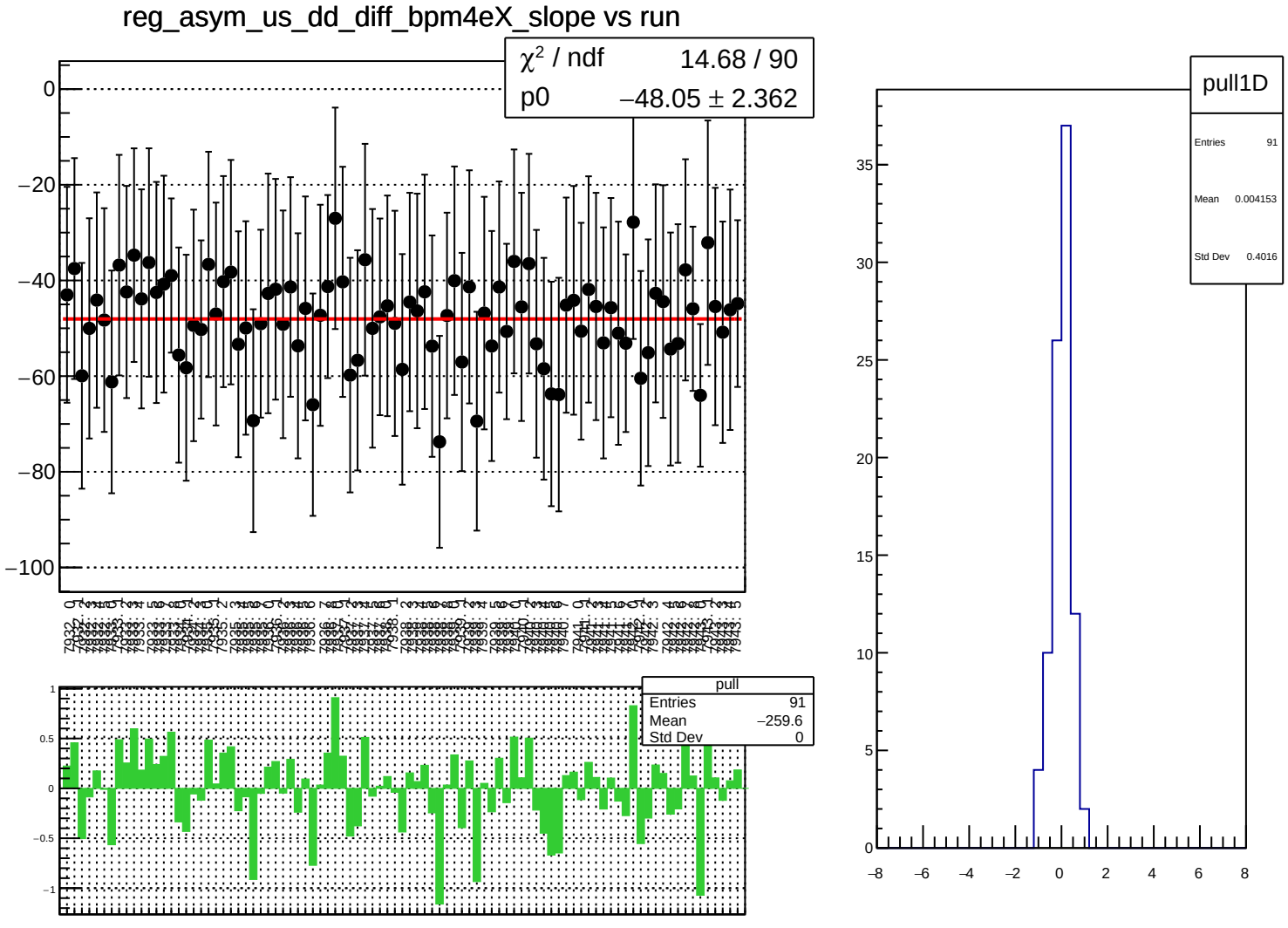

pull1D
Entries 91
Mean −0.0006645
Std Dev 0.3449

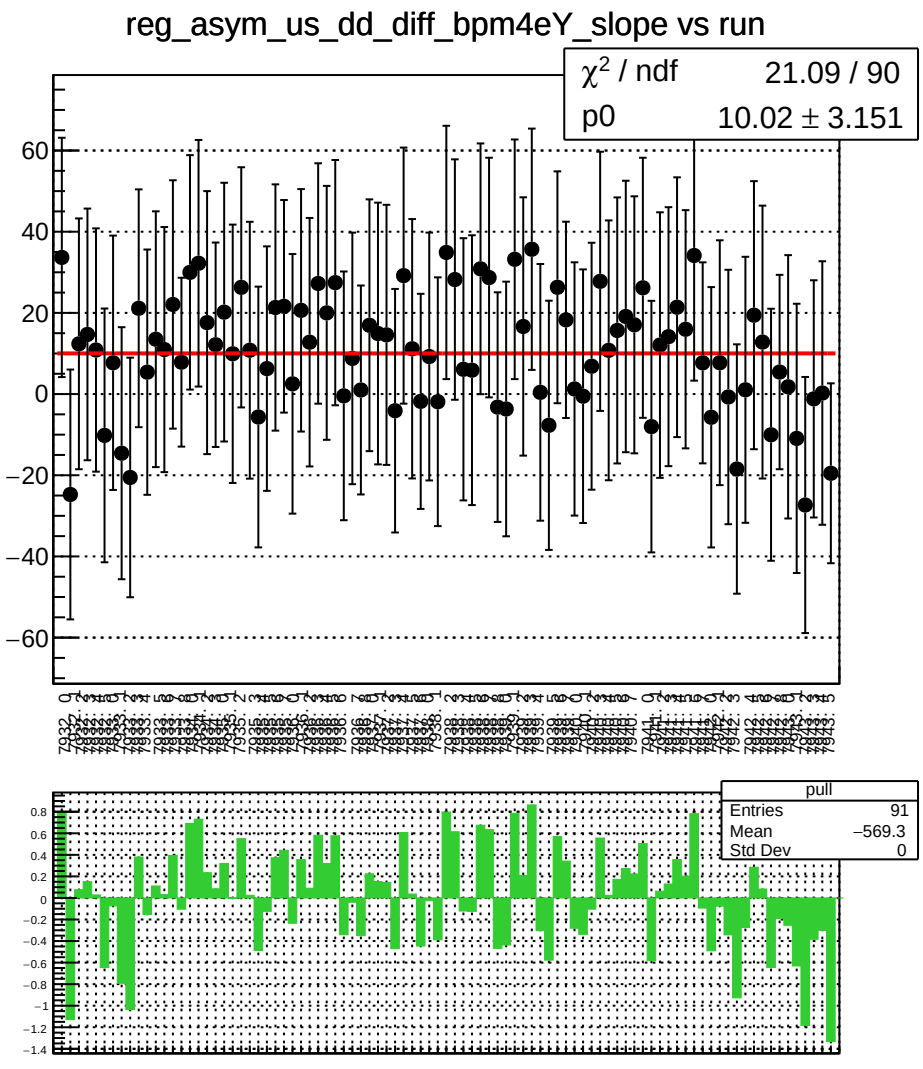

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 40.89 / 90
p0 −40.98 ± 0.09809
pull
Entries 91
Mean 615.7
Std Dev 0
pull1D
Entries 91
Mean −0.01578
Std Dev 0.6701

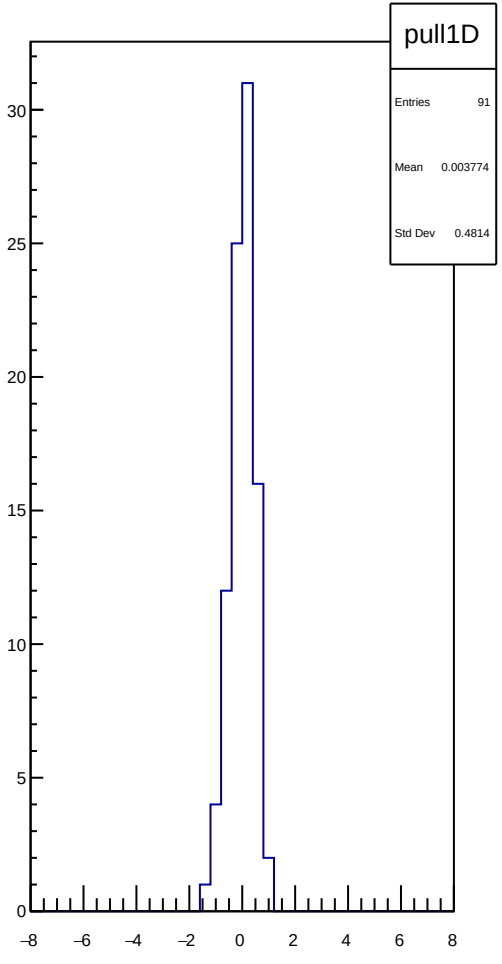

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 14.81 / 90
p0 −13.62 ± 2.625
pull
Entries 91
Mean −236.2
Std Dev 0
pull1D
Entries 91
Mean −0.00418
Std Dev 0.4034

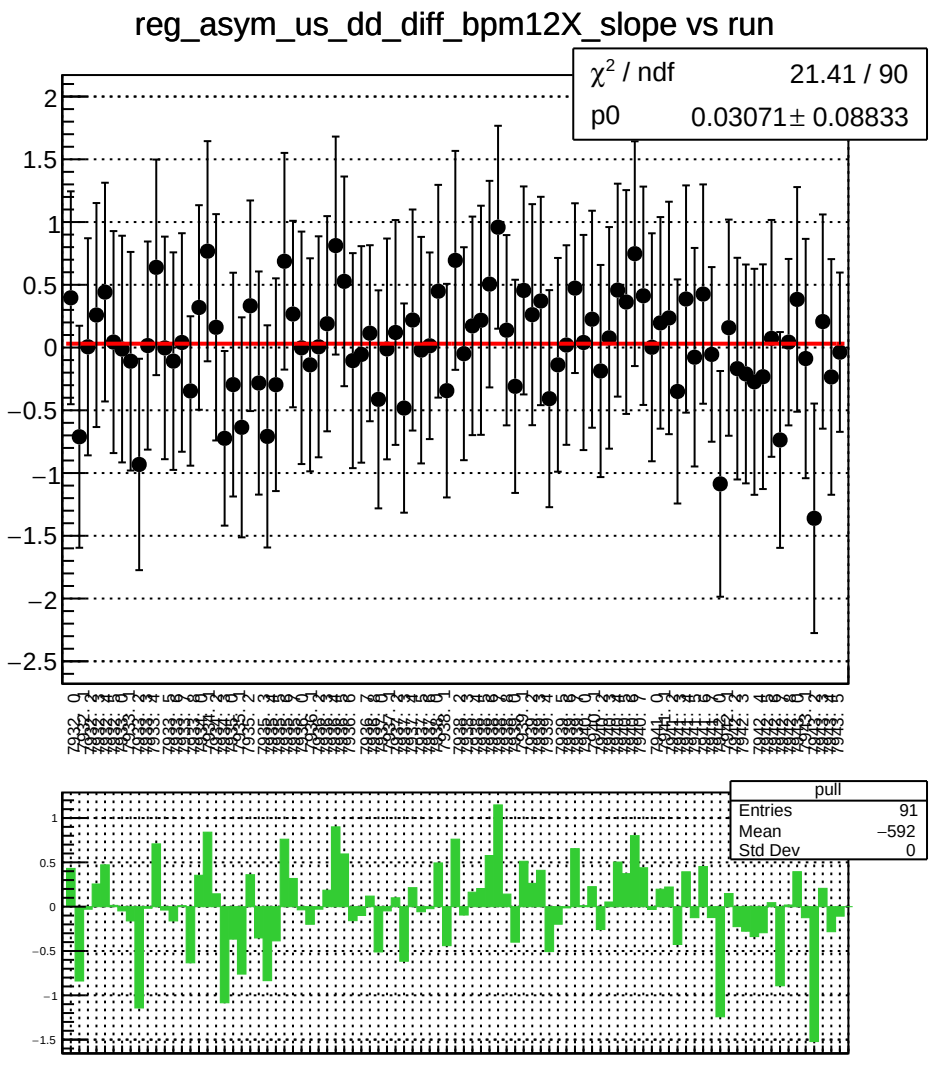

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.07 / 90
p0 −5.24 ± 2.733
pull
Entries 91
Mean −592.2
Std Dev 0

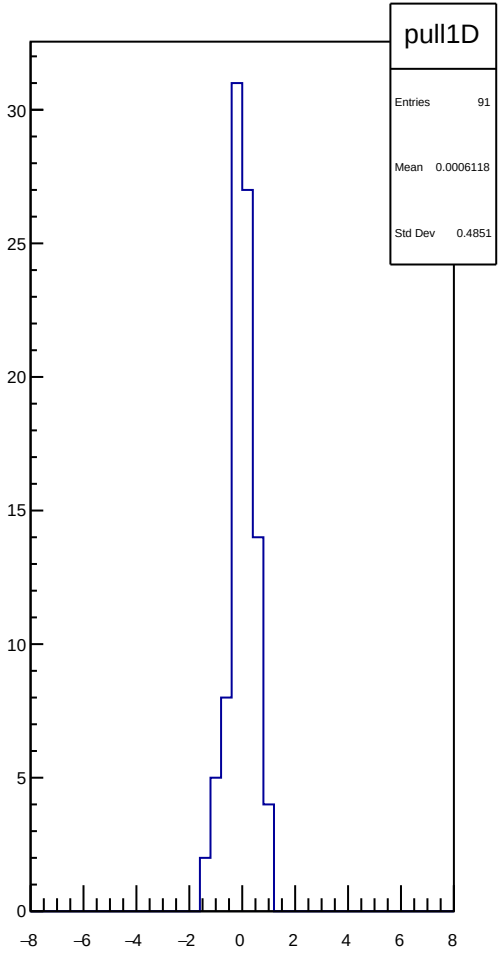

pull1D
Entries 91
Mean −0.003383
Std Dev 0.4812

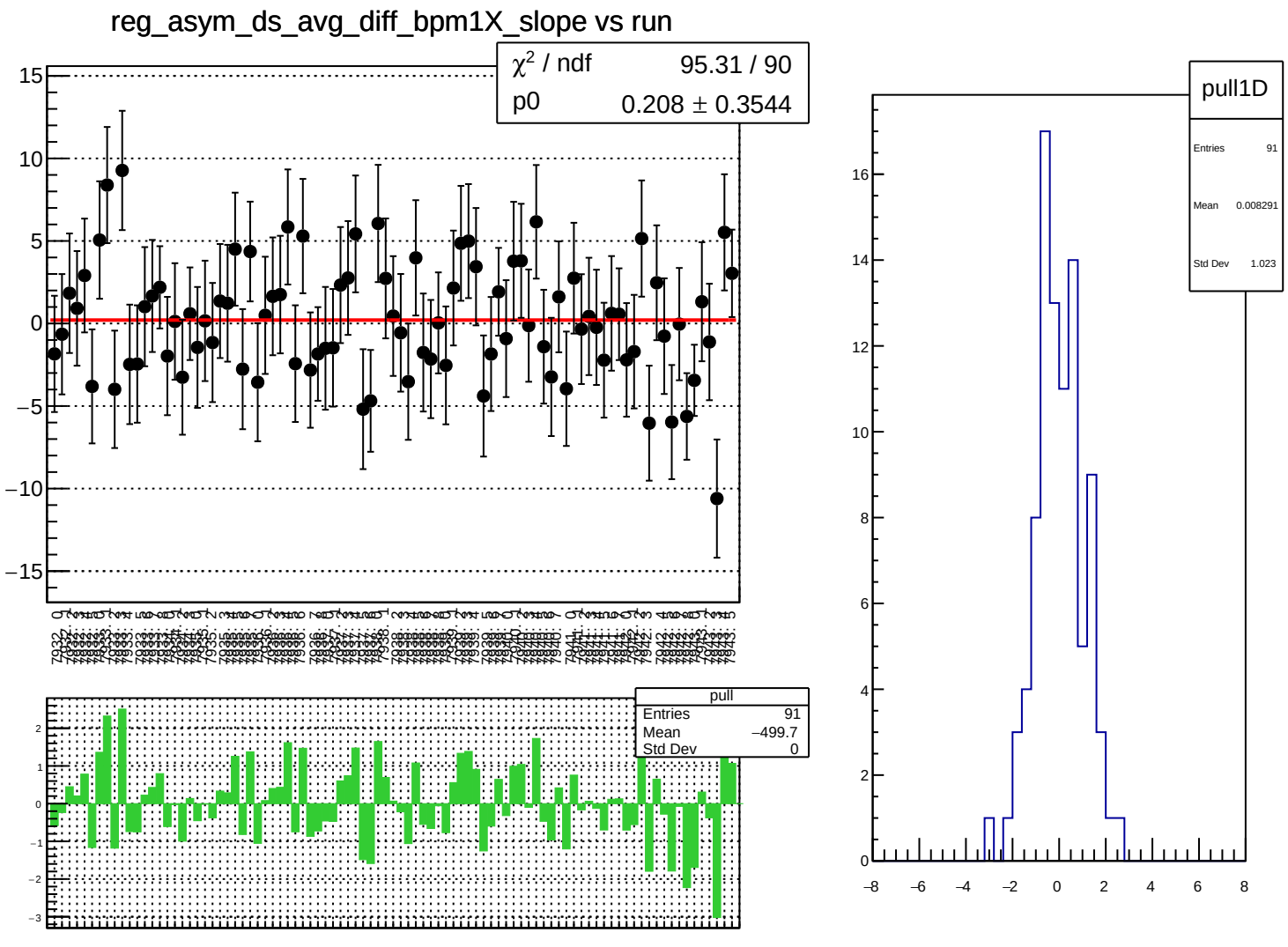

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.68 / 90
p0 −48.05 ± 2.362
0
−20
−40
−60
−80
−100
pull
Entries 91
Mean −259.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.004153
Std Dev 0.4016
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

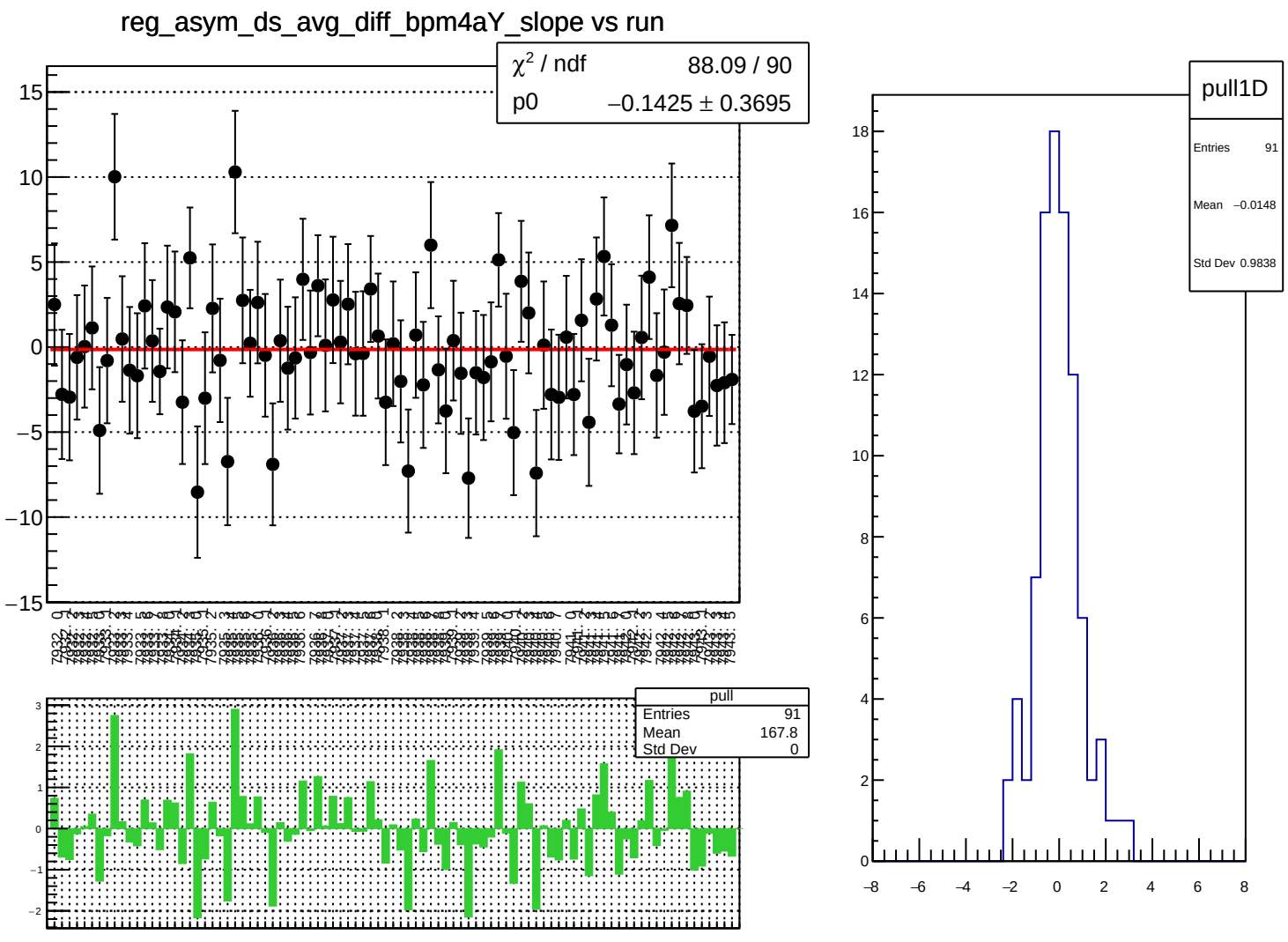

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.09 / 90
p0 10.02 ± 3.151
pull
Entries 91
Mean −569.3
Std Dev 0

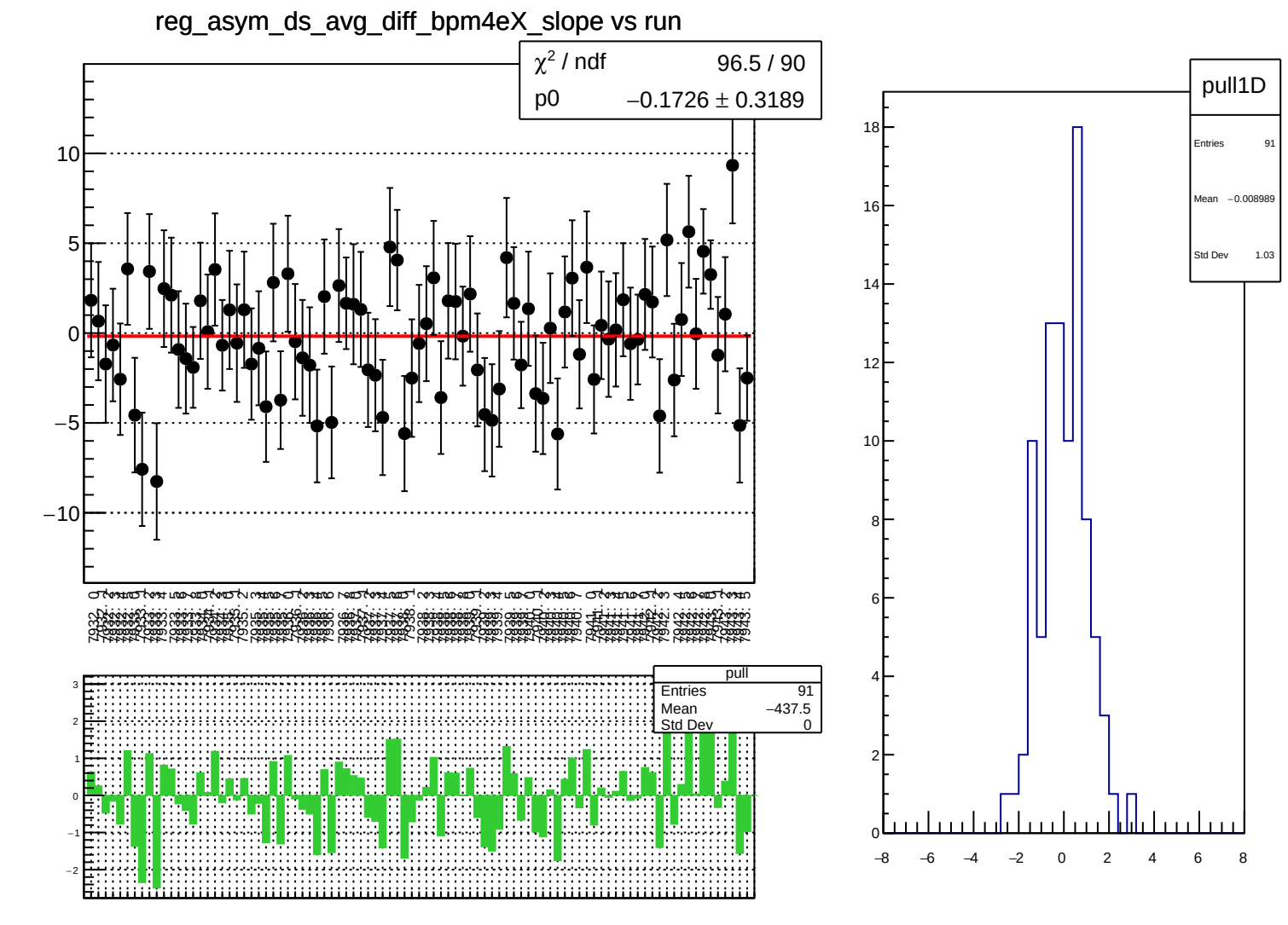

pull1D
Entries 91
Mean 0.003774
Std Dev 0.4814

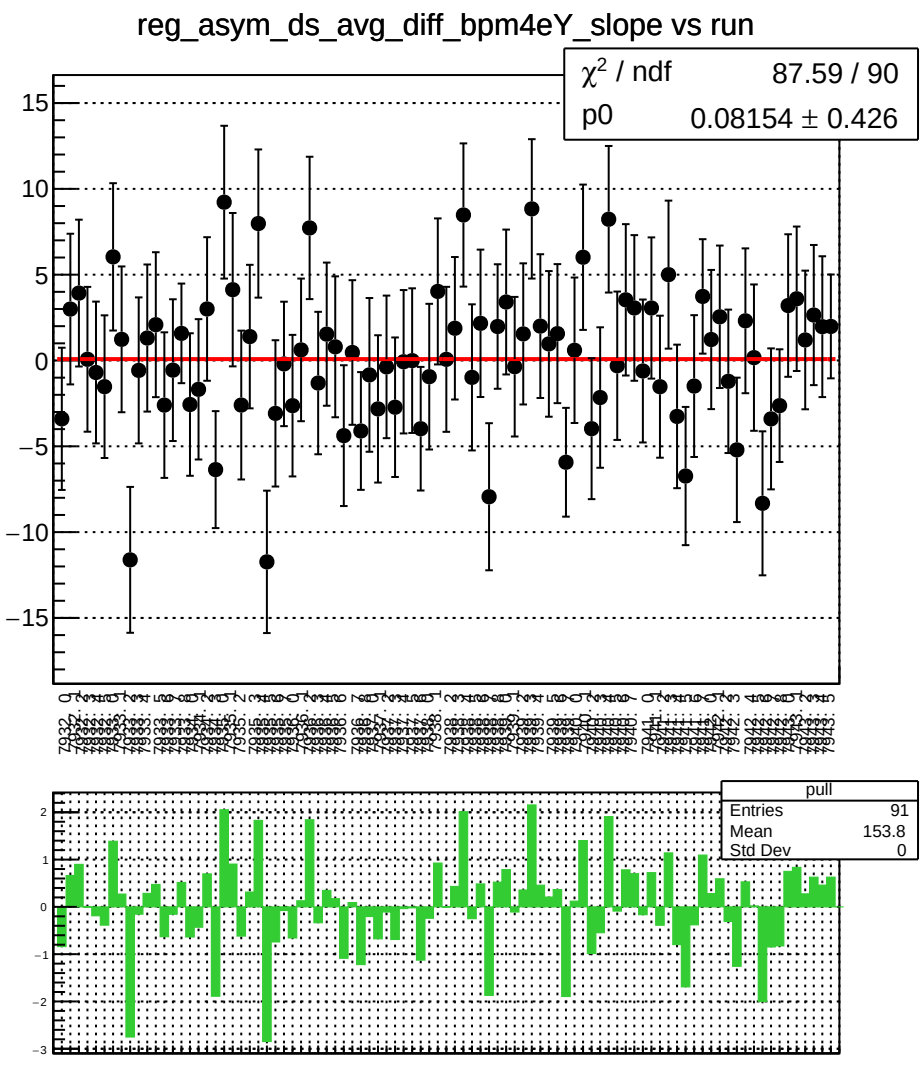

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 21.41 / 90
p0 0.03071 ± 0.08833
pull
Entries 91
Mean −592
Std Dev 0

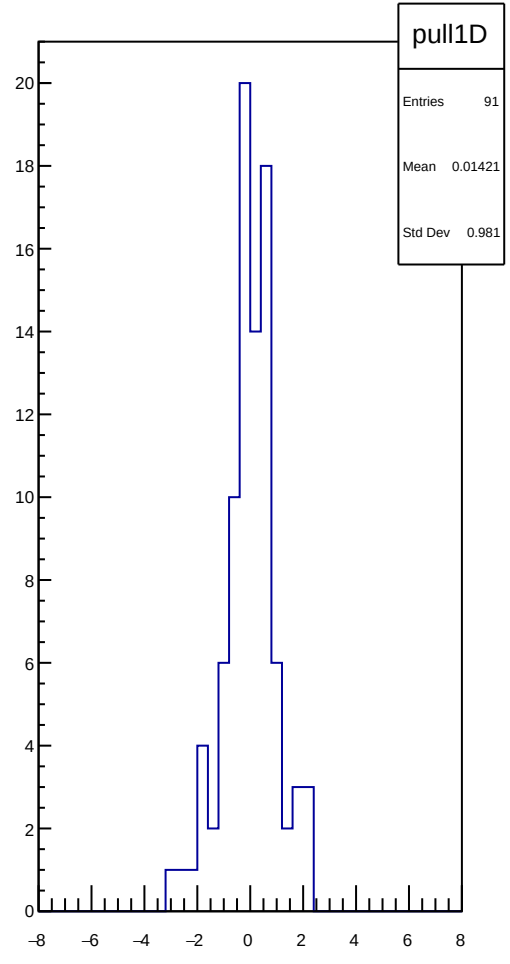

pull1D
Entries 91
Mean 0.0006118
Std Dev 0.4851

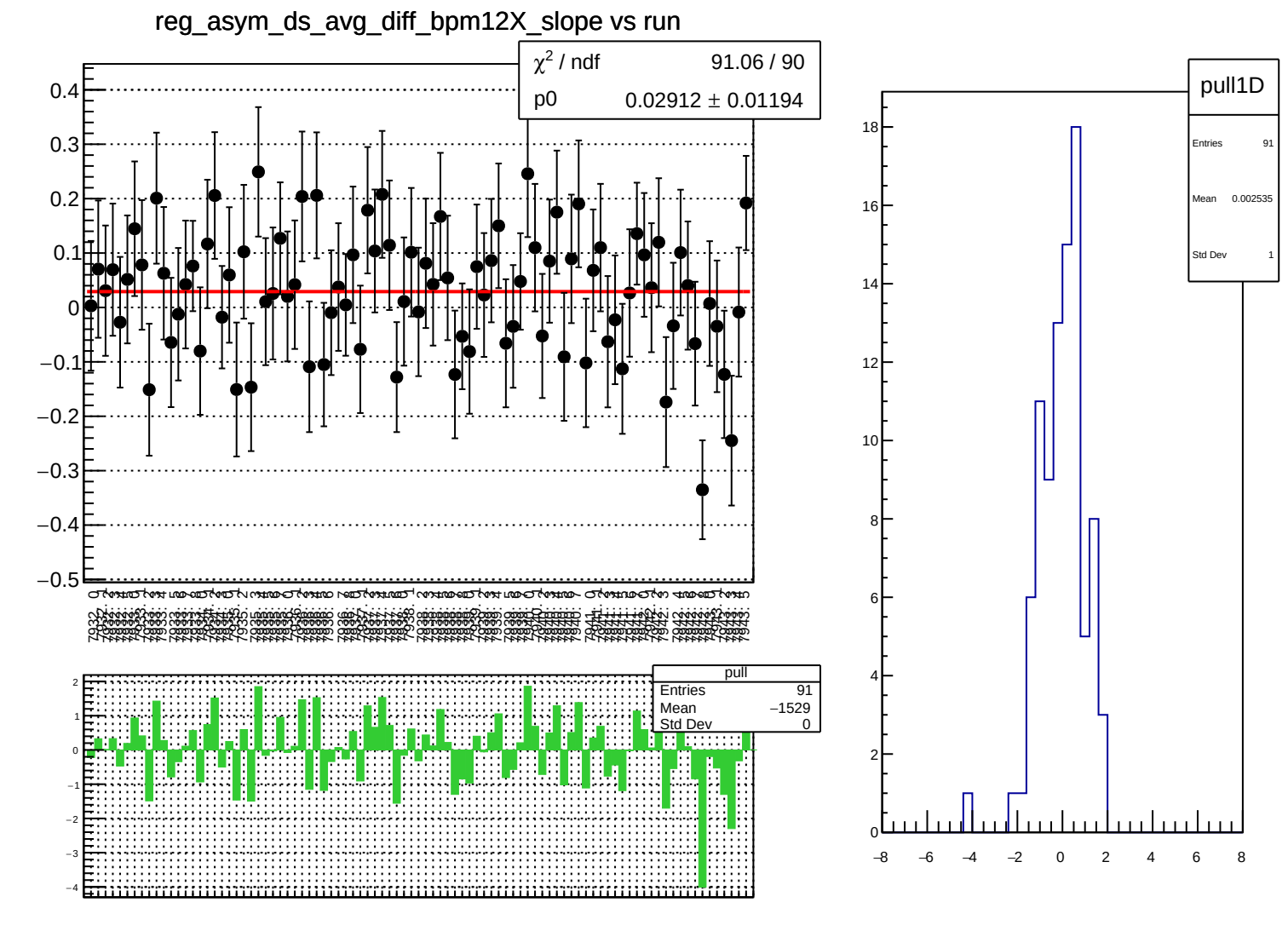

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 95.31 / 90
p0 0.208 ± 0.3544
pull
Entries 91
Mean −499.7
Std Dev 0
pull1D
Entries 91
Mean 0.008291
Std Dev 1.023

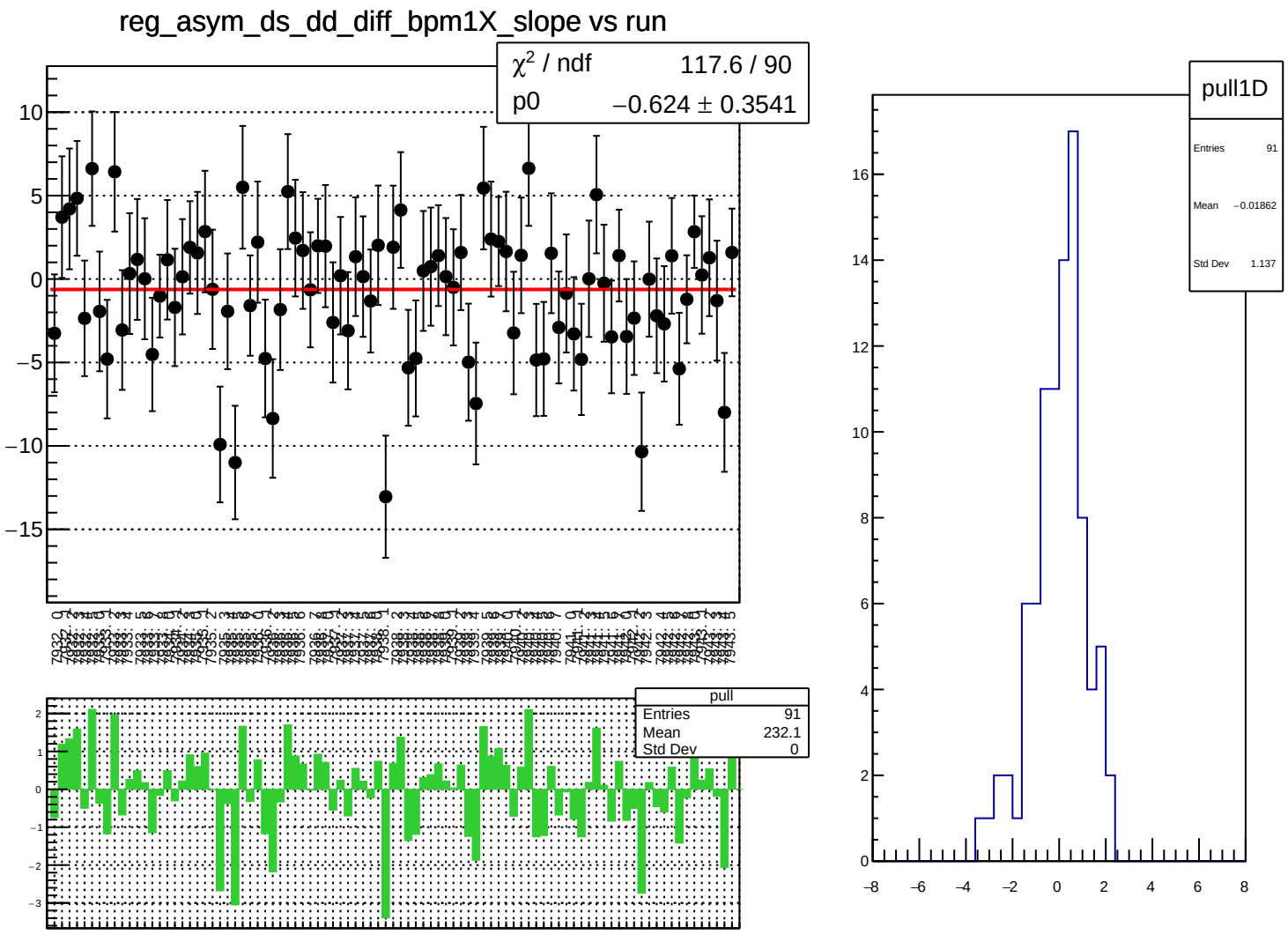

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.09 / 90
p0 −0.1425 ± 0.3695
pull
Entries 91
Mean 167.8
Std Dev 0
pull1D
Entries 91
Mean −0.0148
Std Dev 0.9838

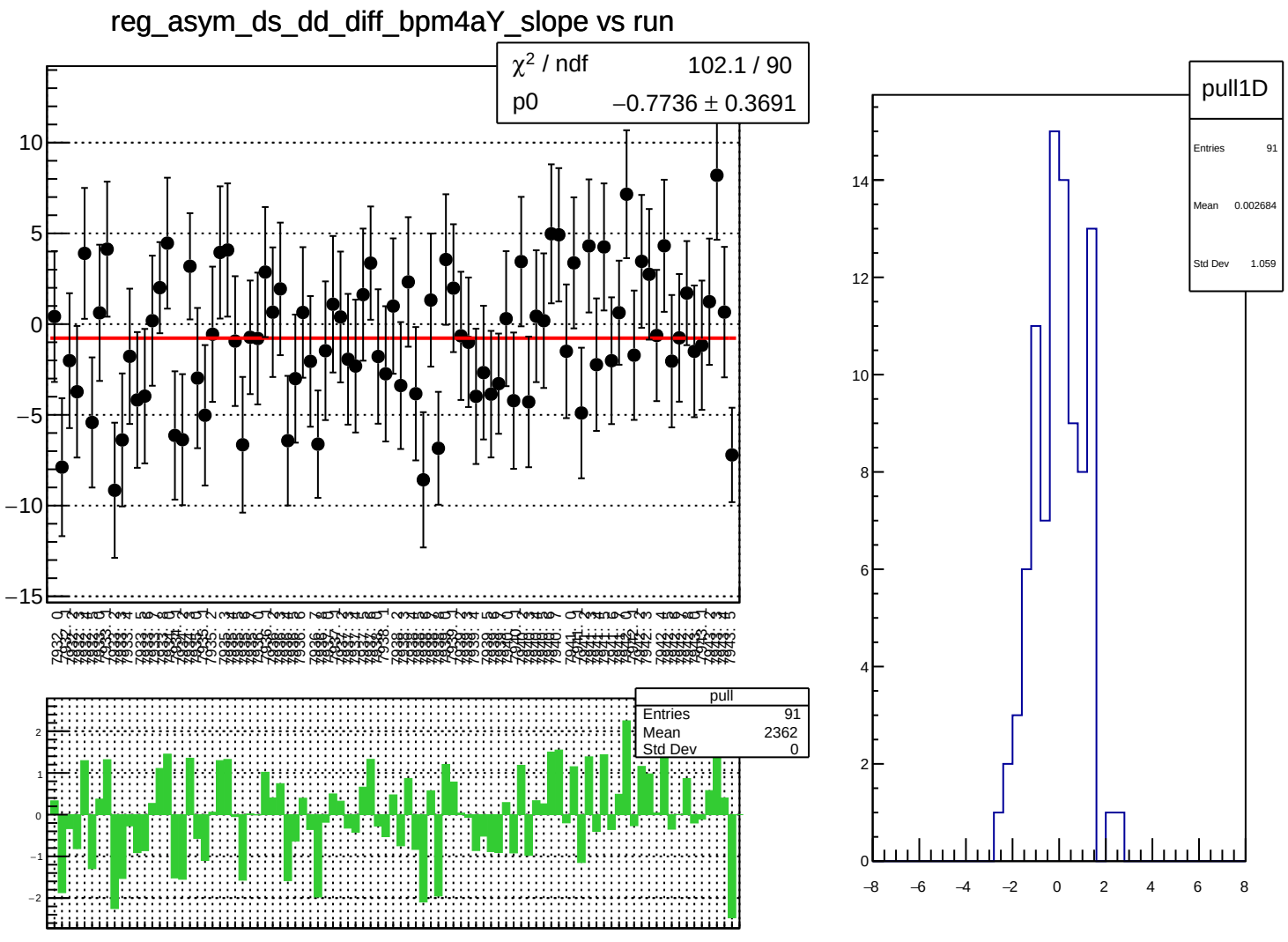

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 96.5 / 90
p0 −0.1726 ± 0.3189
pull
Entries 91
Mean −437.5
Std Dev 0
pull1D
Entries 91
Mean −0.008989
Std Dev 1.03

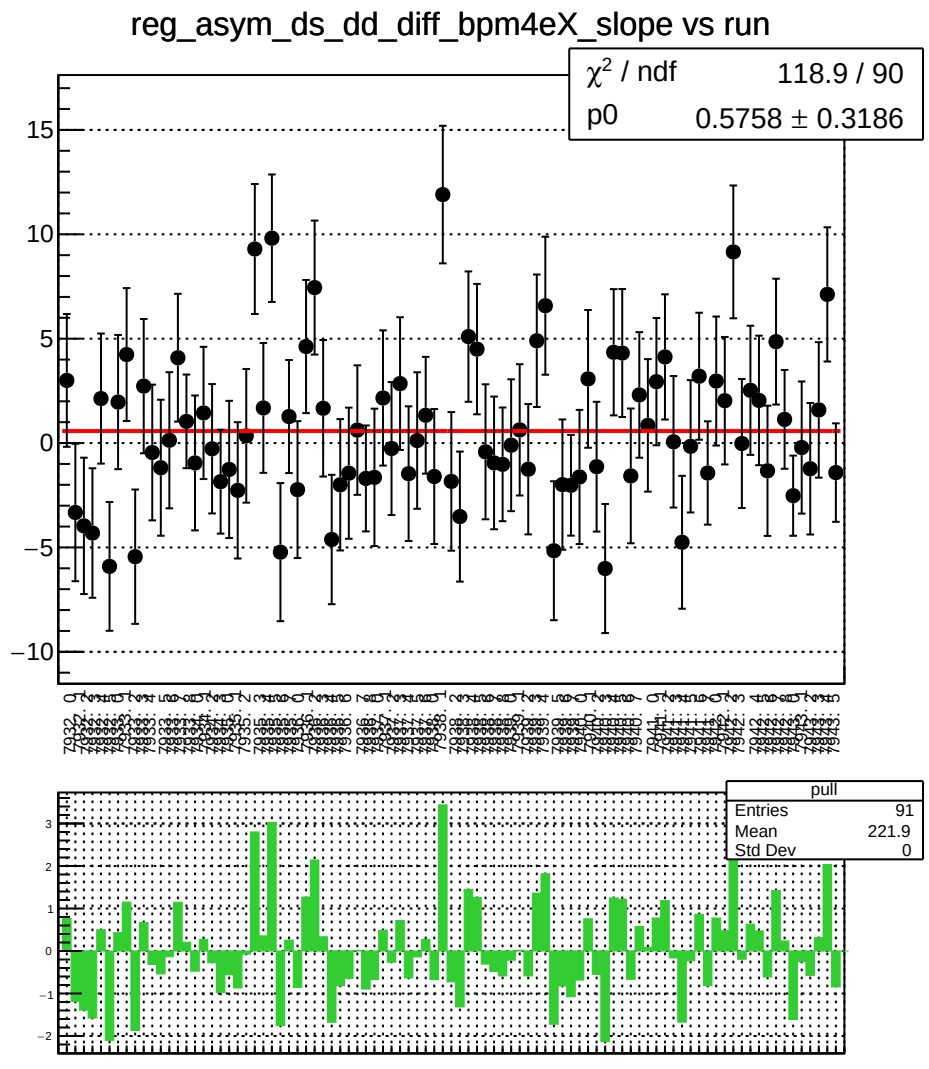

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.59 / 90
p0 0.08154 ± 0.426
pull
Entries 91
Mean 153.8
Std Dev 0

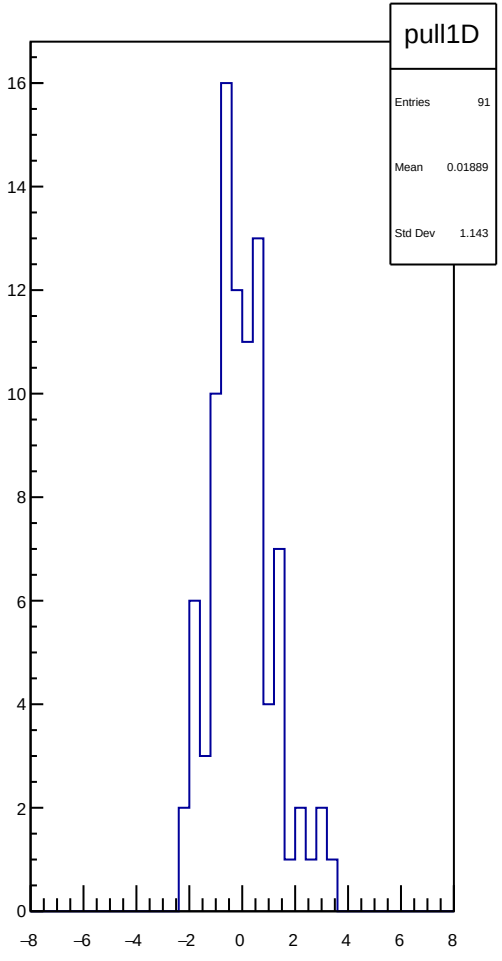

pull1D
Entries 91
Mean 0.01421
Std Dev 0.981

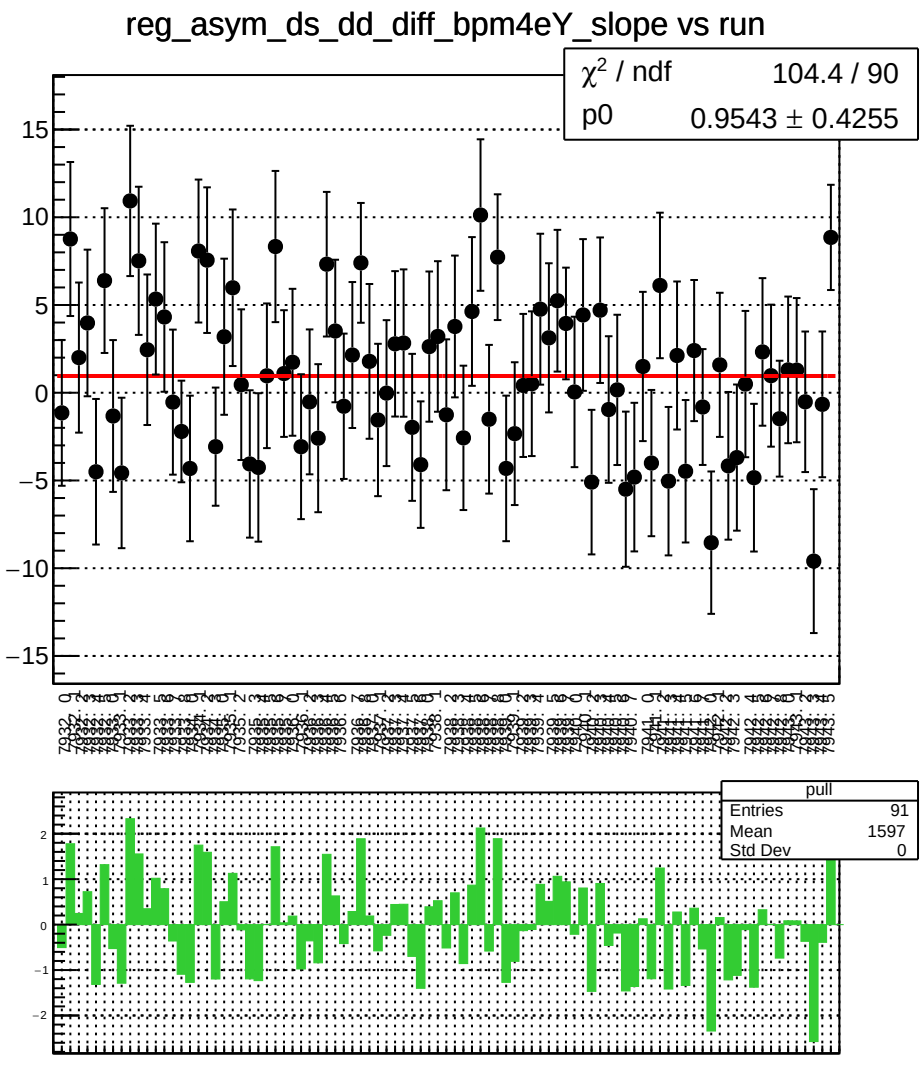

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 91.06 / 90
p0 0.02912 ± 0.01194
pull
Entries 91
Mean −1529
Std Dev 0
pull1D
Entries 91
Mean 0.002535
Std Dev 1

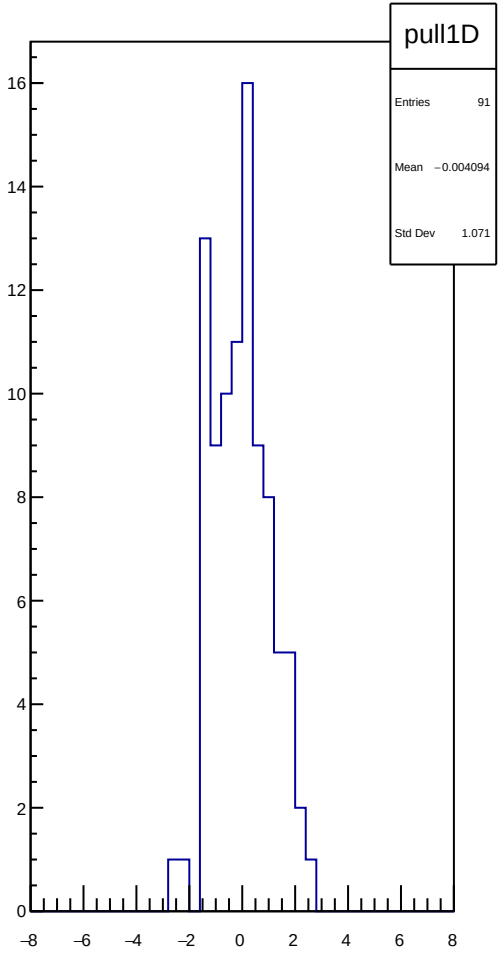

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 117.6 / 90
p0 −0.624 ± 0.3541
pull
Entries 91
Mean 232.1
Std Dev 0
pull1D
Entries 91
Mean −0.01862
Std Dev 1.137

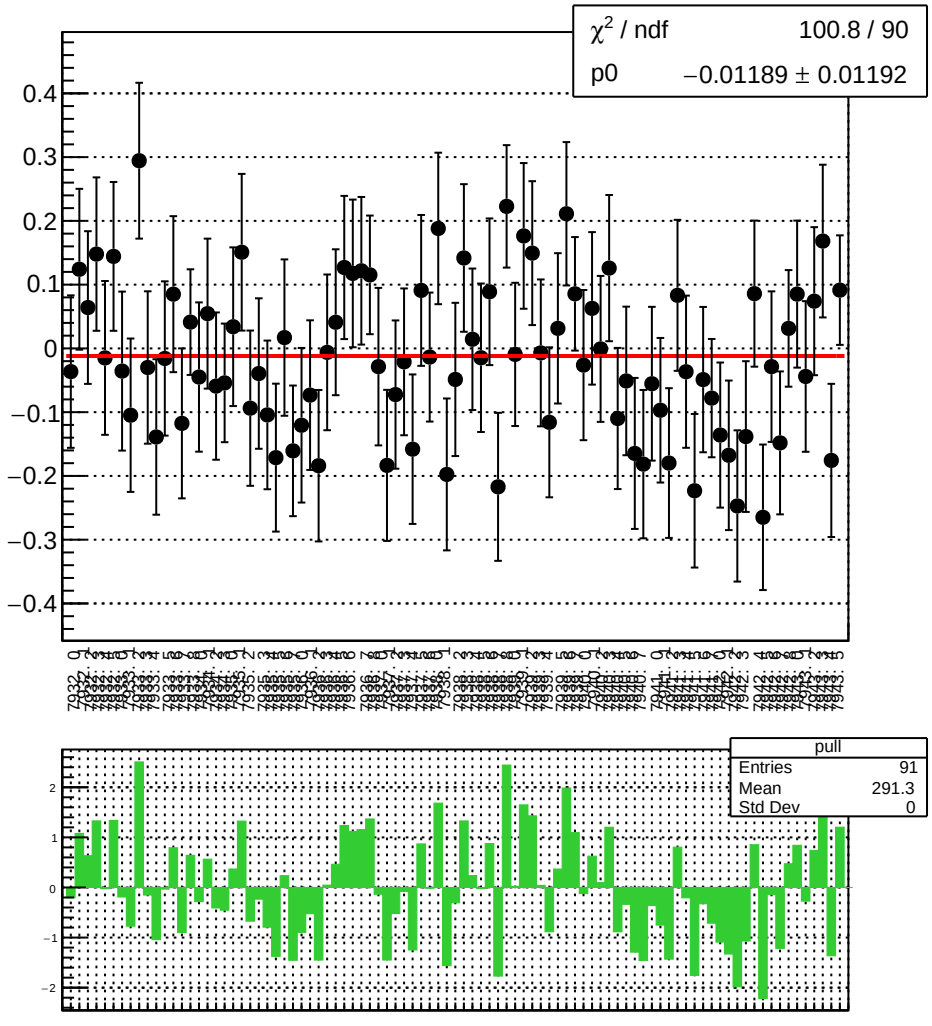

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 102.1 / 90
p0 −0.7736 ± 0.3691
pull
Entries 91
Mean 2362
Std Dev 0
pull1D
Entries 91
Mean 0.002684
Std Dev 1.059

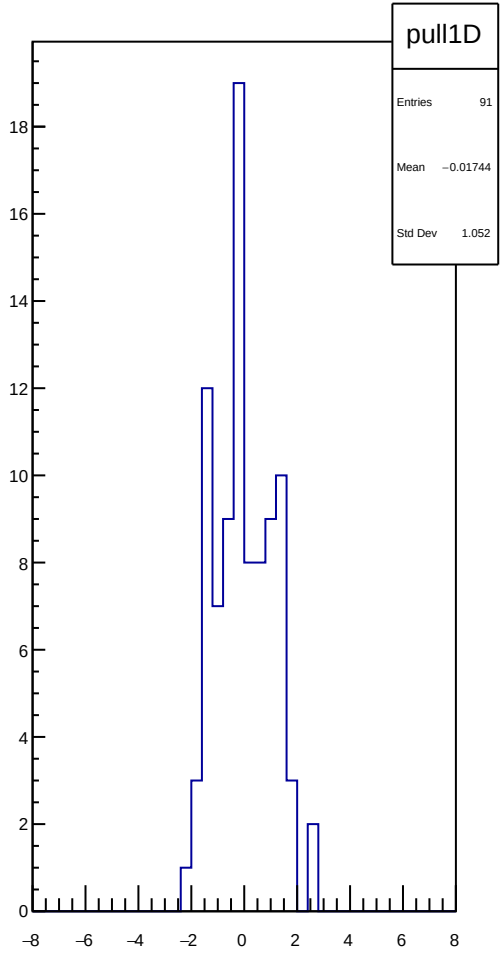

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 118.9 / 90
p0 0.5758 ± 0.3186
pull
Entries 91
Mean 221.9
Std Dev 0

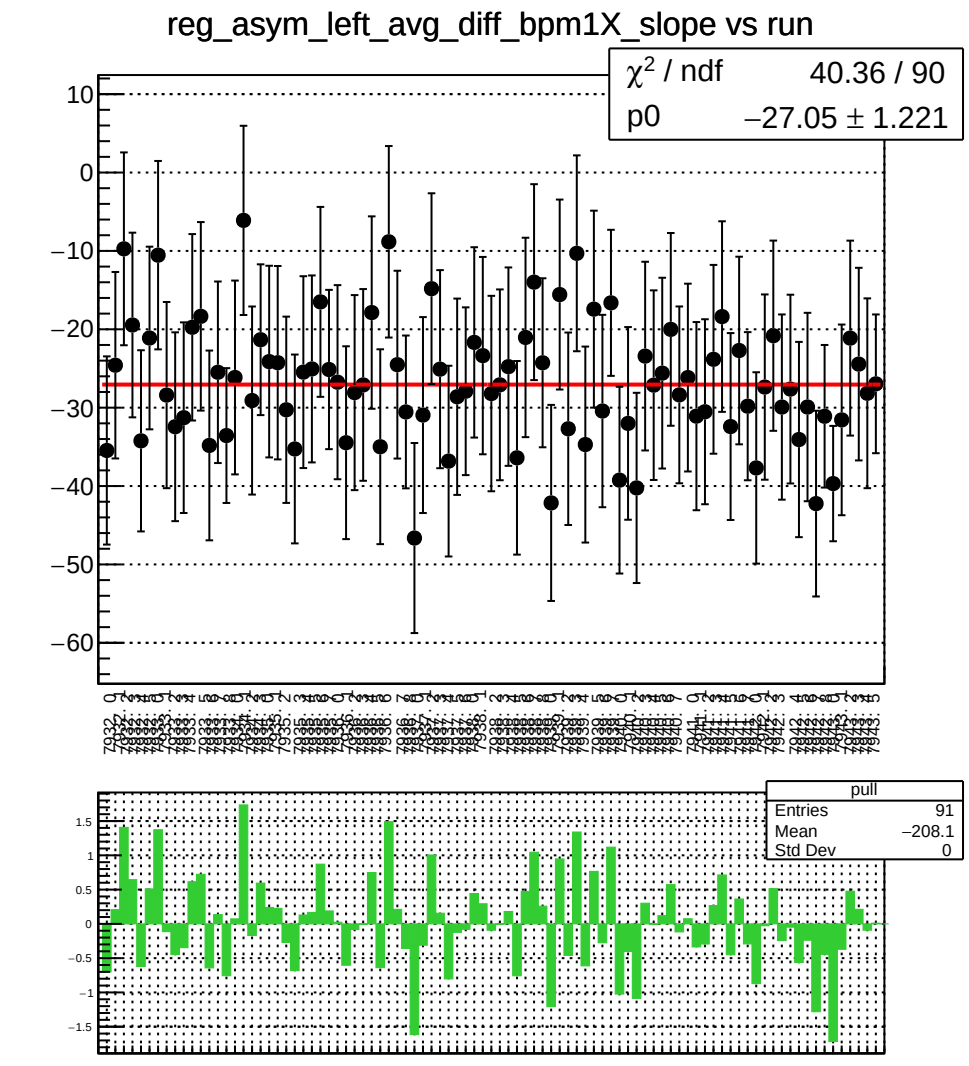

pull1D
Entries 91
Mean 0.01889
Std Dev 1.143

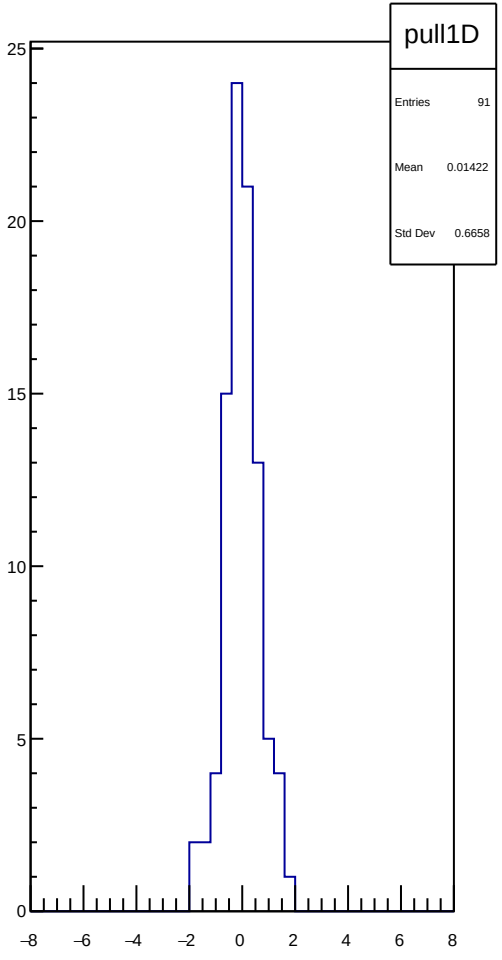

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 104.4 / 90
p0 0.9543 ± 0.4255
pull
Entries 91
Mean 1597
Std Dev 0

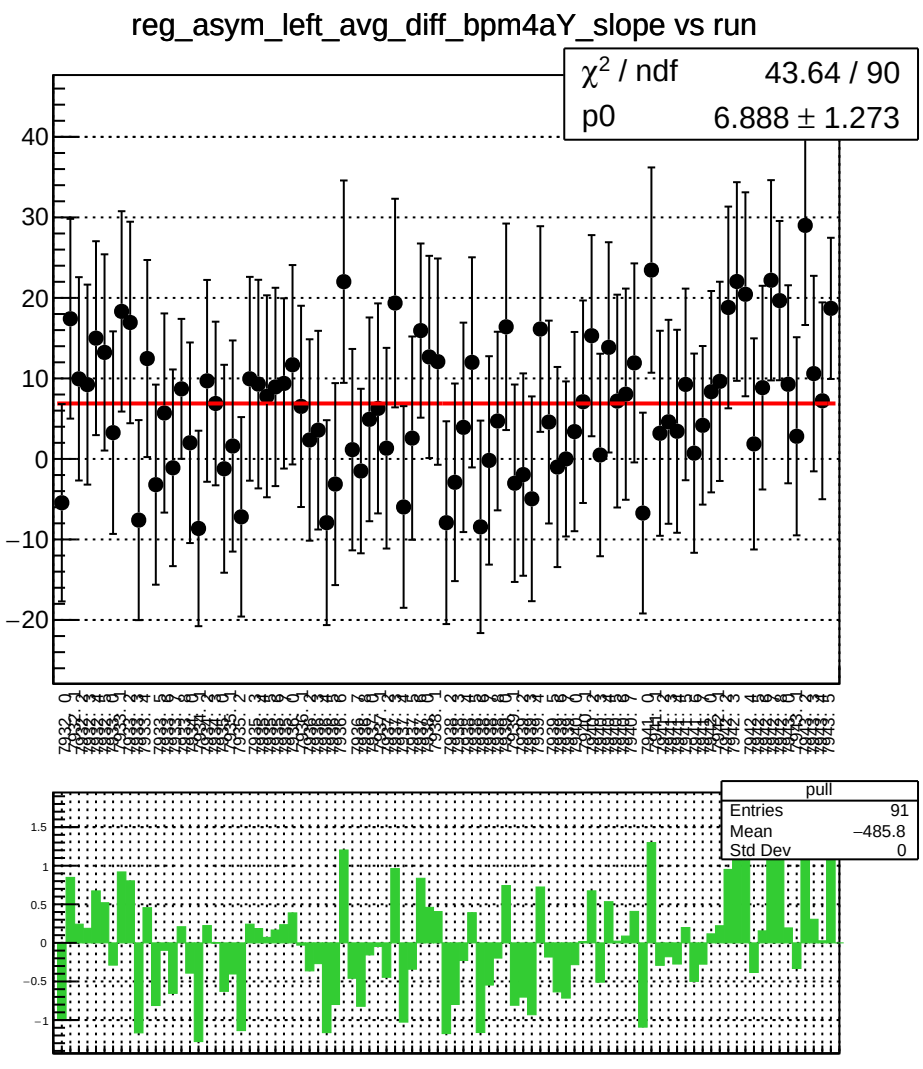

pull1D
Entries 91
Mean −0.004094
Std Dev 1.071

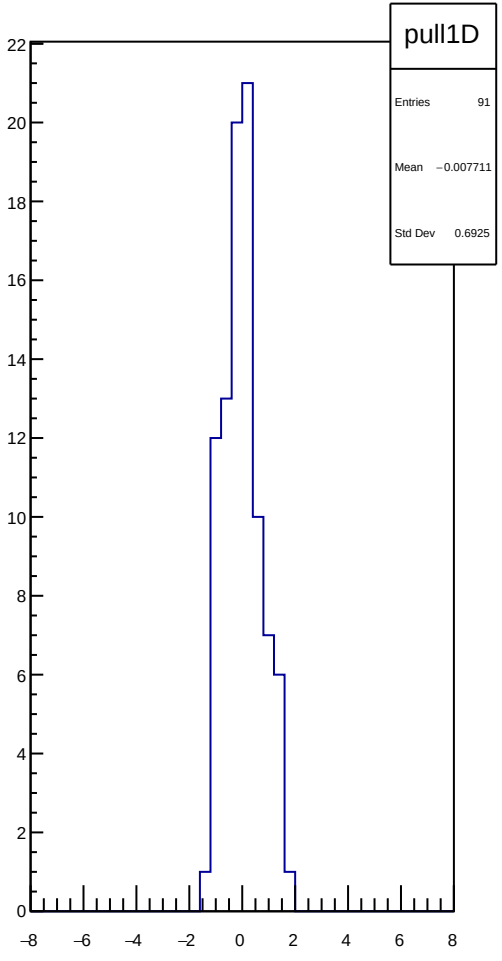

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 100.8 / 90
p0 −0.01189 ± 0.01192
pull
Entries 91
Mean 291.3
Std Dev 0

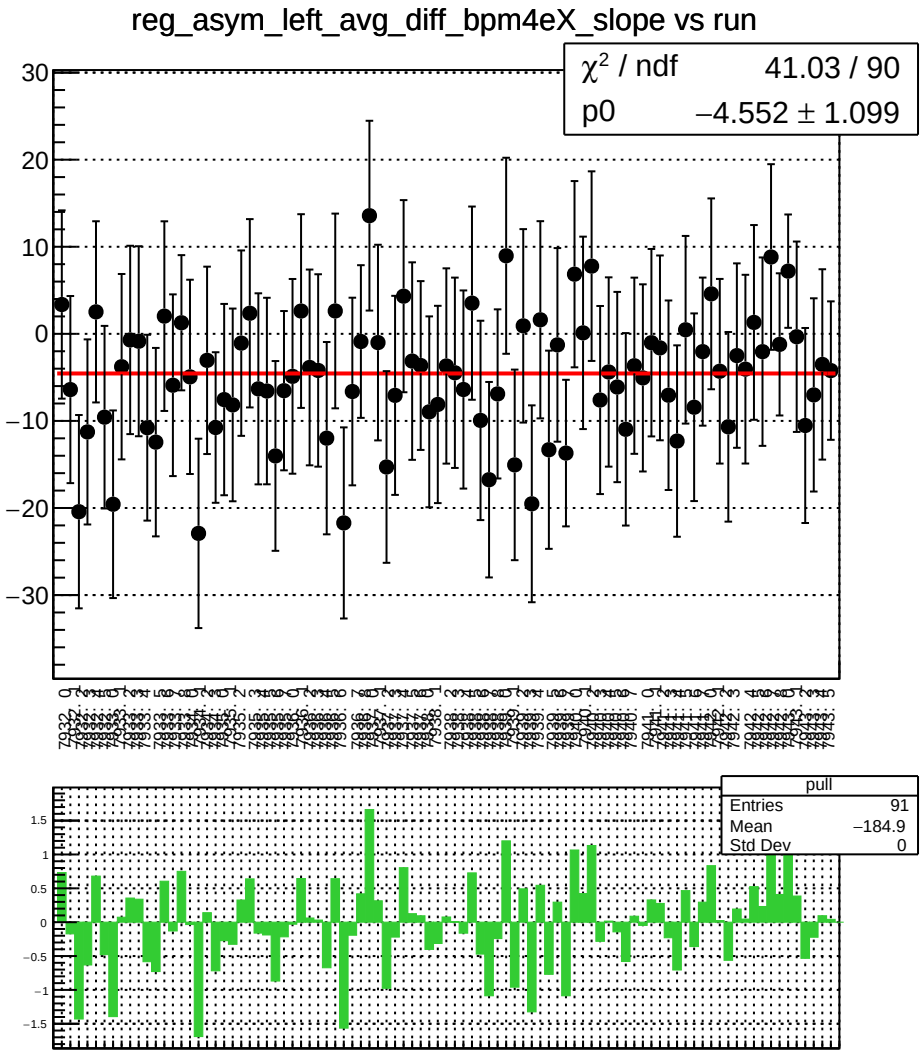

pull1D
Entries 91
Mean −0.01744
Std Dev 1.052

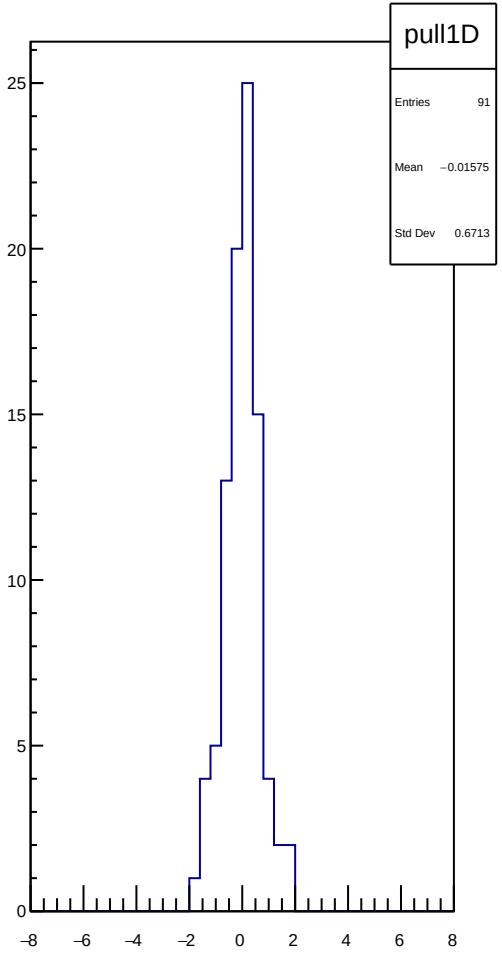

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 40.36 / 90
p0 −27.05 ± 1.221
pull
Entries 91
Mean −208.1
Std Dev 0

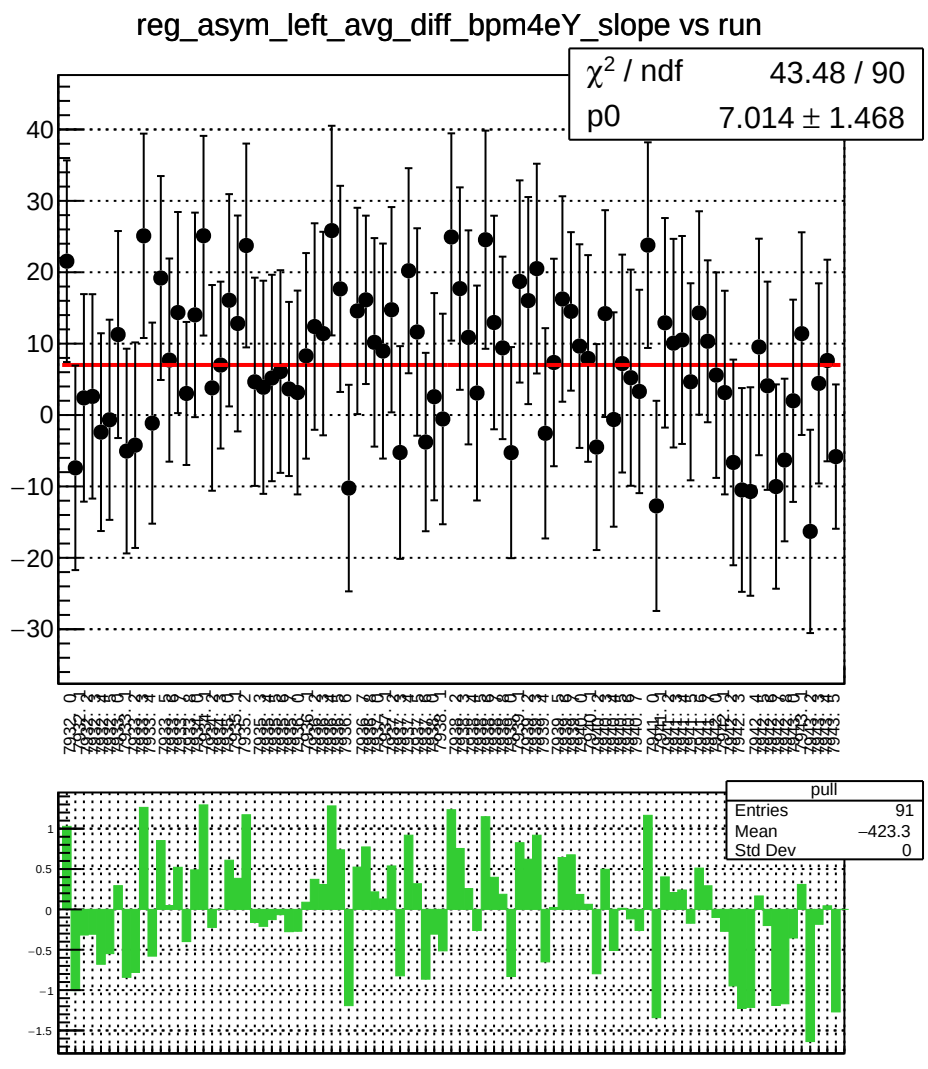

pull1D
Entries 91
Mean 0.01422
Std Dev 0.6658

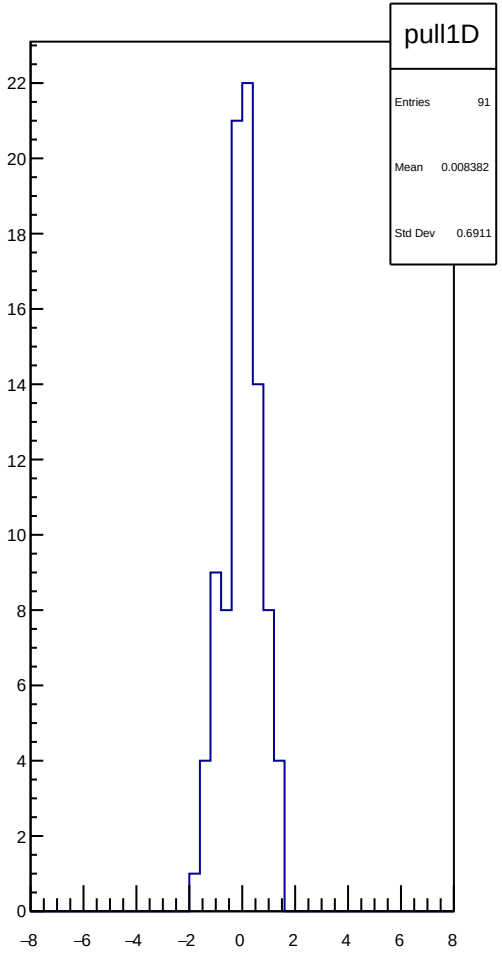

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.64 / 90
p0 6.888 ± 1.273
pull
Entries 91
Mean −485.8
Std Dev 0

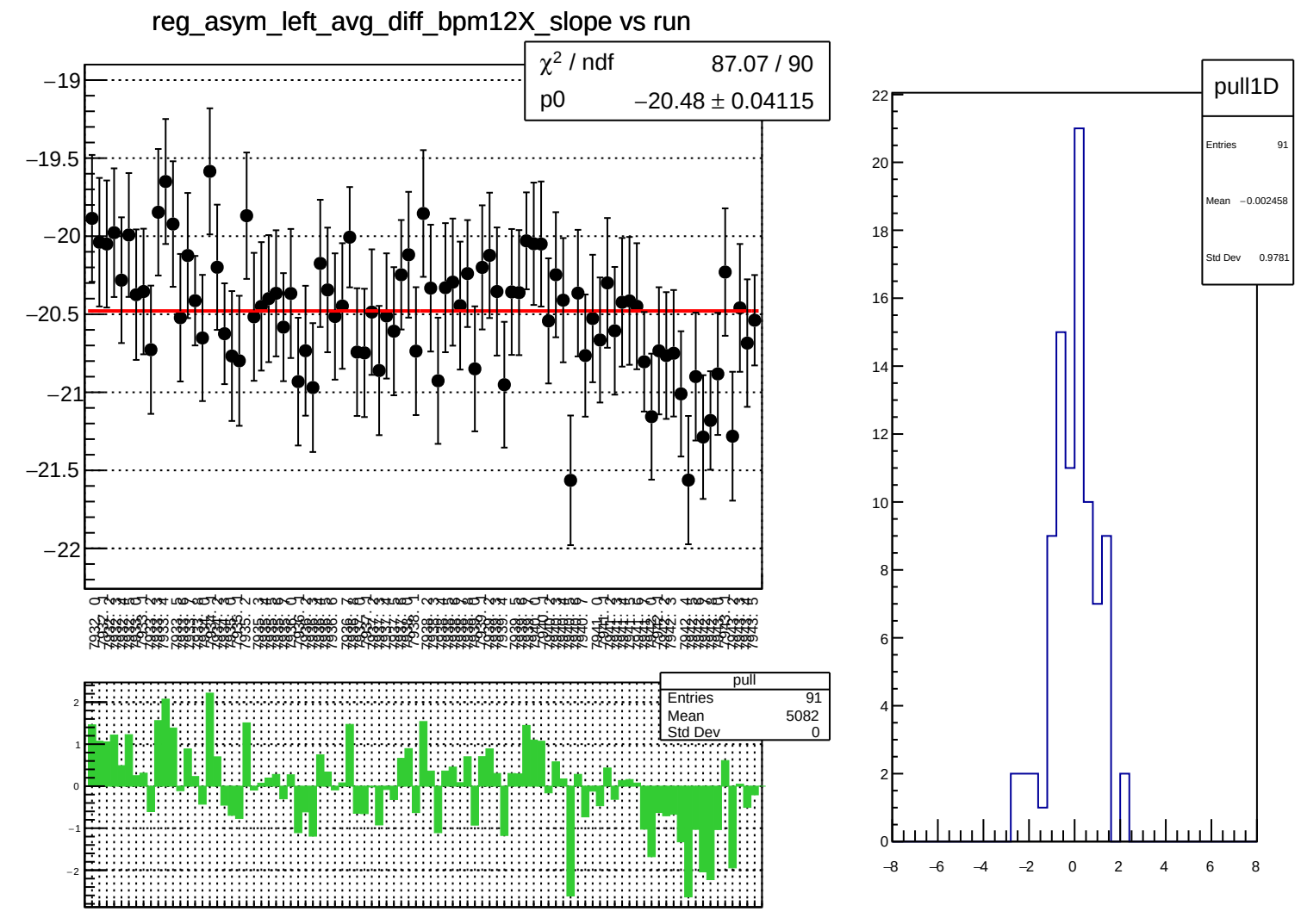

pull1D
Entries 91
Mean −0.007711
Std Dev 0.6925

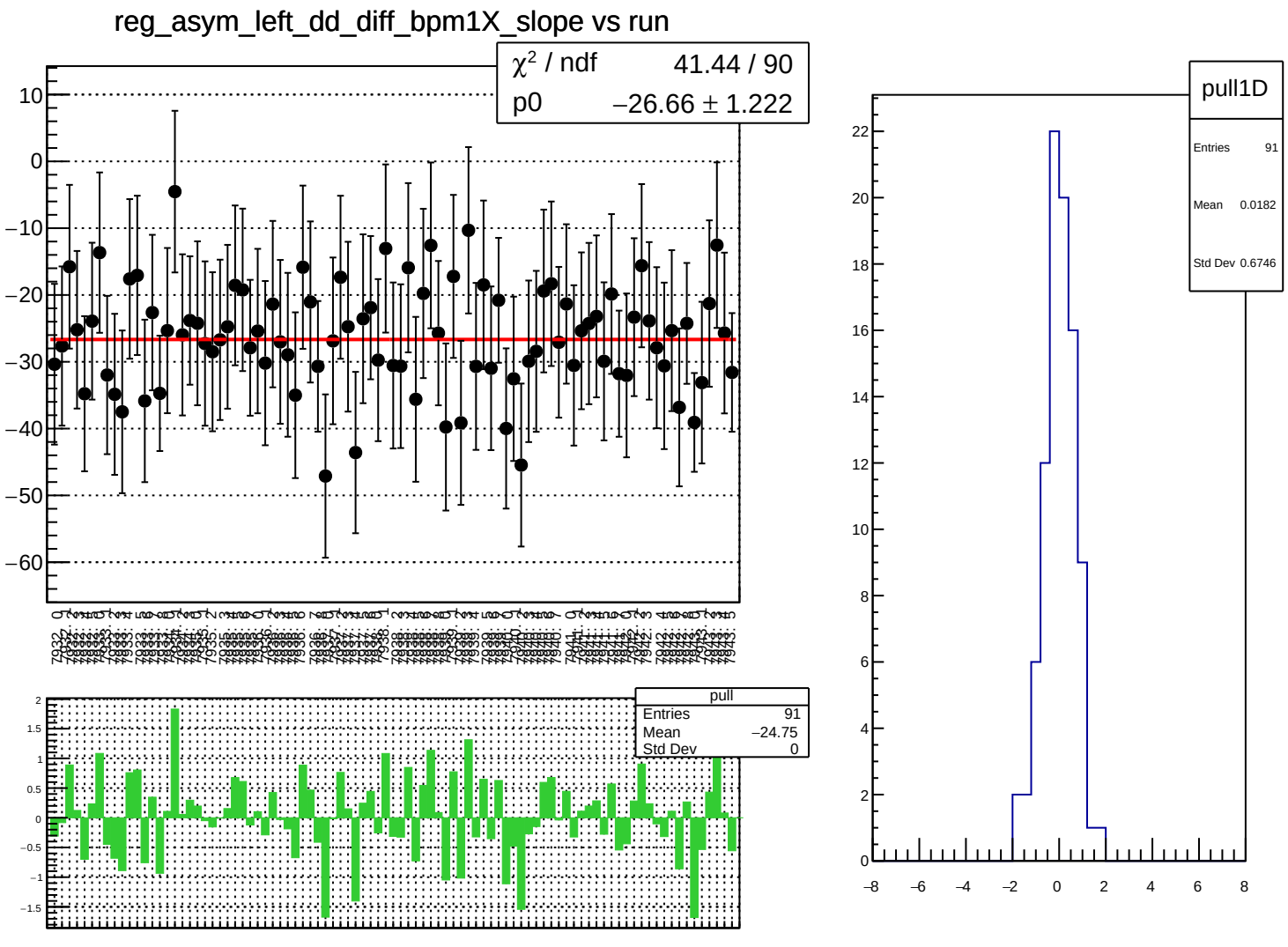

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.03 / 90
p0 −4.552 ± 1.099
pull
Entries 91
Mean −184.9
Std Dev 0

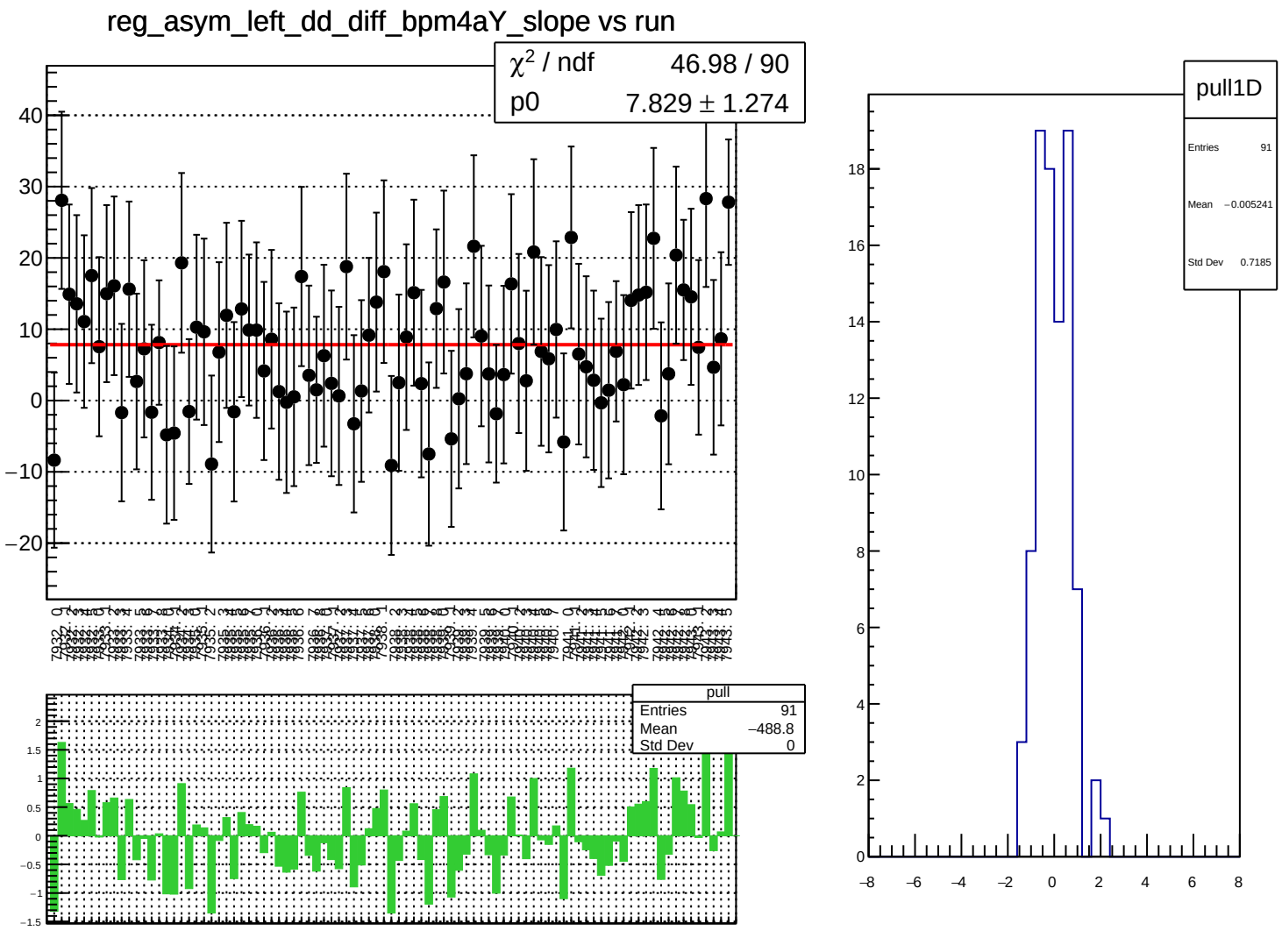

pull1D
Entries 91
Mean −0.01575
Std Dev 0.6713

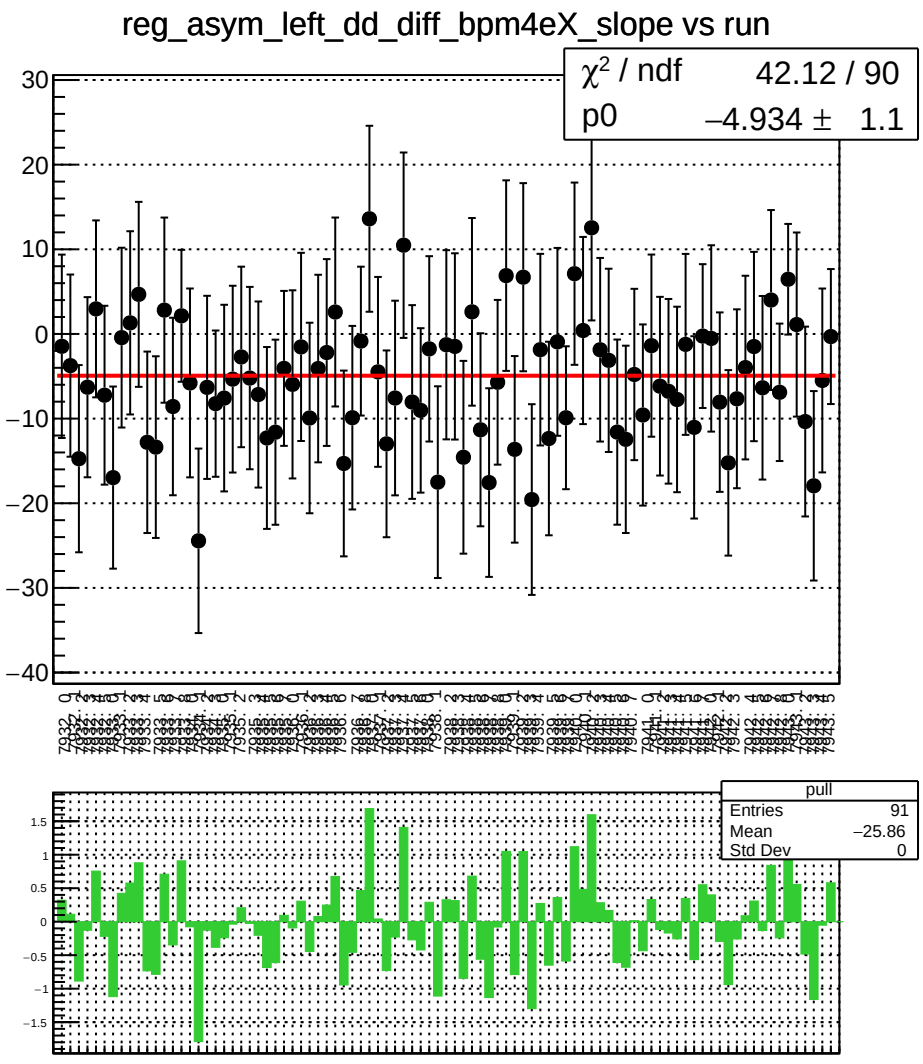

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.48 / 90
p0 7.014 ± 1.468
pull
Entries 91
Mean −423.3
Std Dev 0

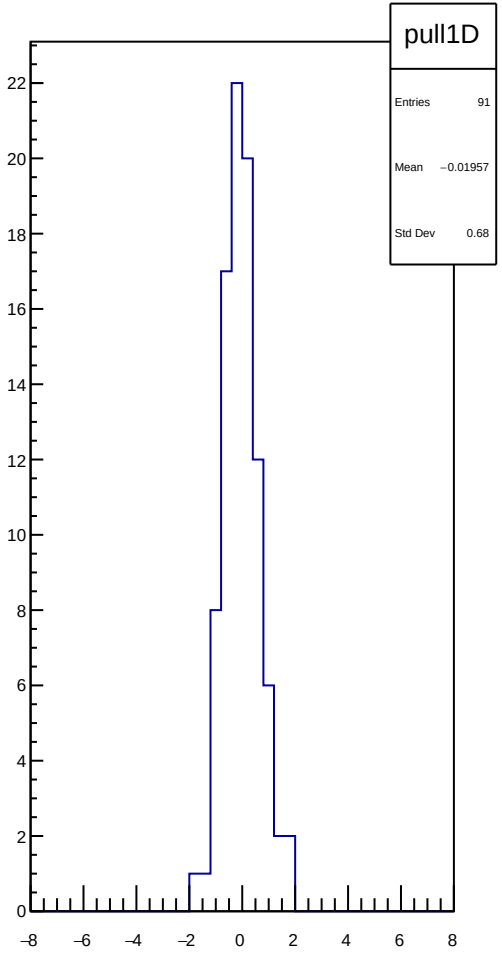

pull1D
Entries 91
Mean 0.008382
Std Dev 0.6911

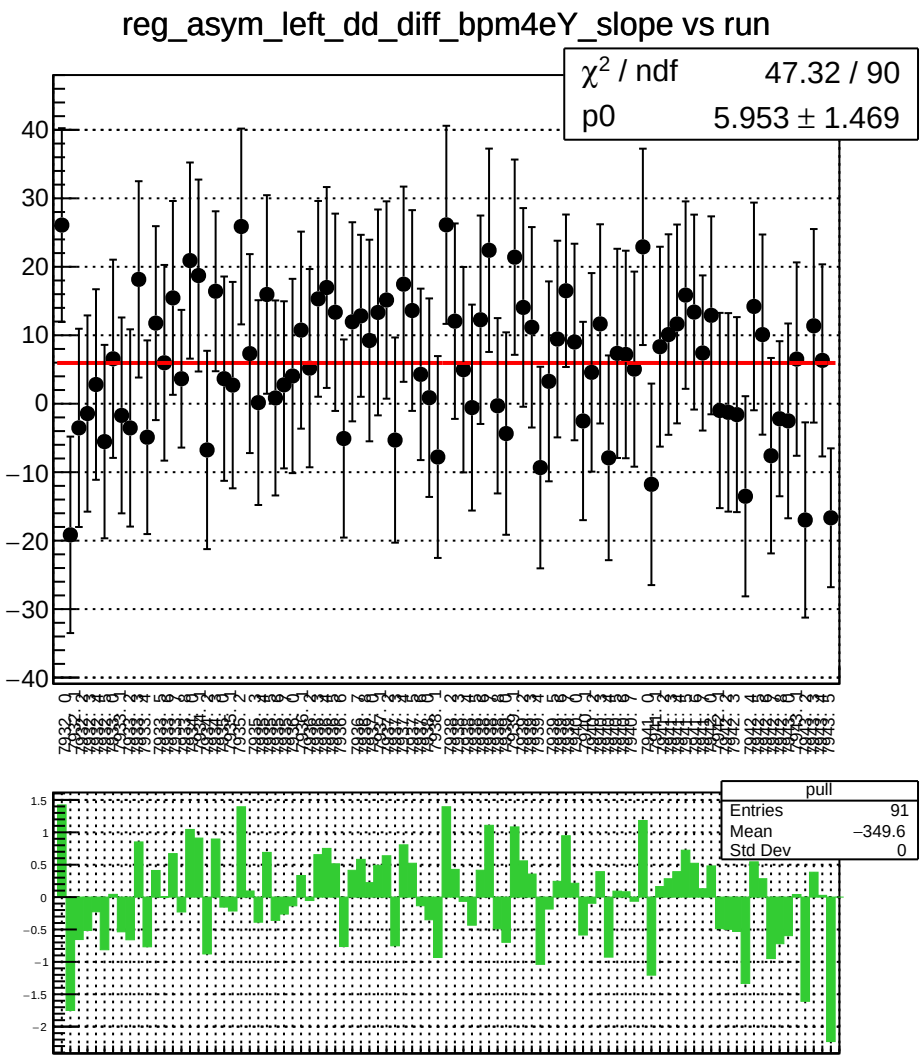

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 87.07 / 90
p0 −20.48 ± 0.04115
pull
Entries 91
Mean 5082
Std Dev 0
pull1D
Entries 91
Mean −0.002458
Std Dev 0.9781

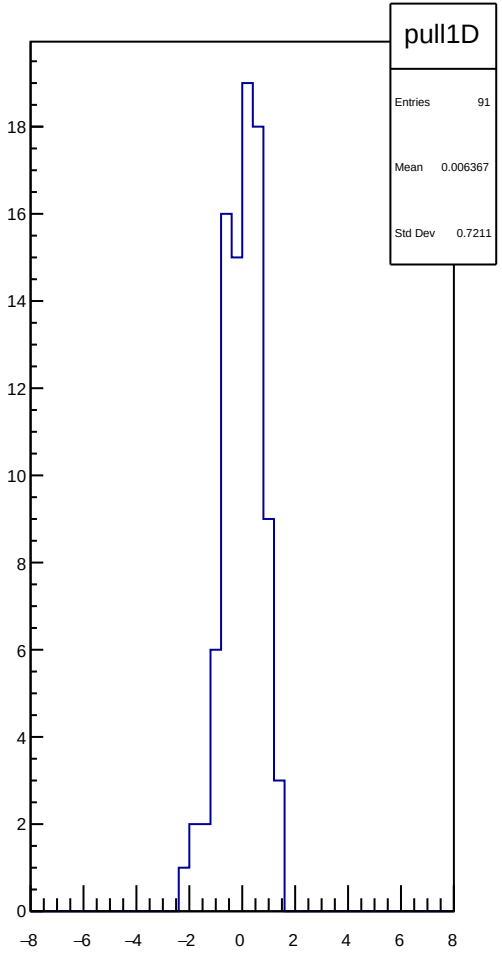

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 41.44 / 90
p0 −26.66 ± 1.222
pull
Entries 91
Mean −24.75
Std Dev 0
pull1D
Entries 91
Mean 0.0182
Std Dev 0.6746

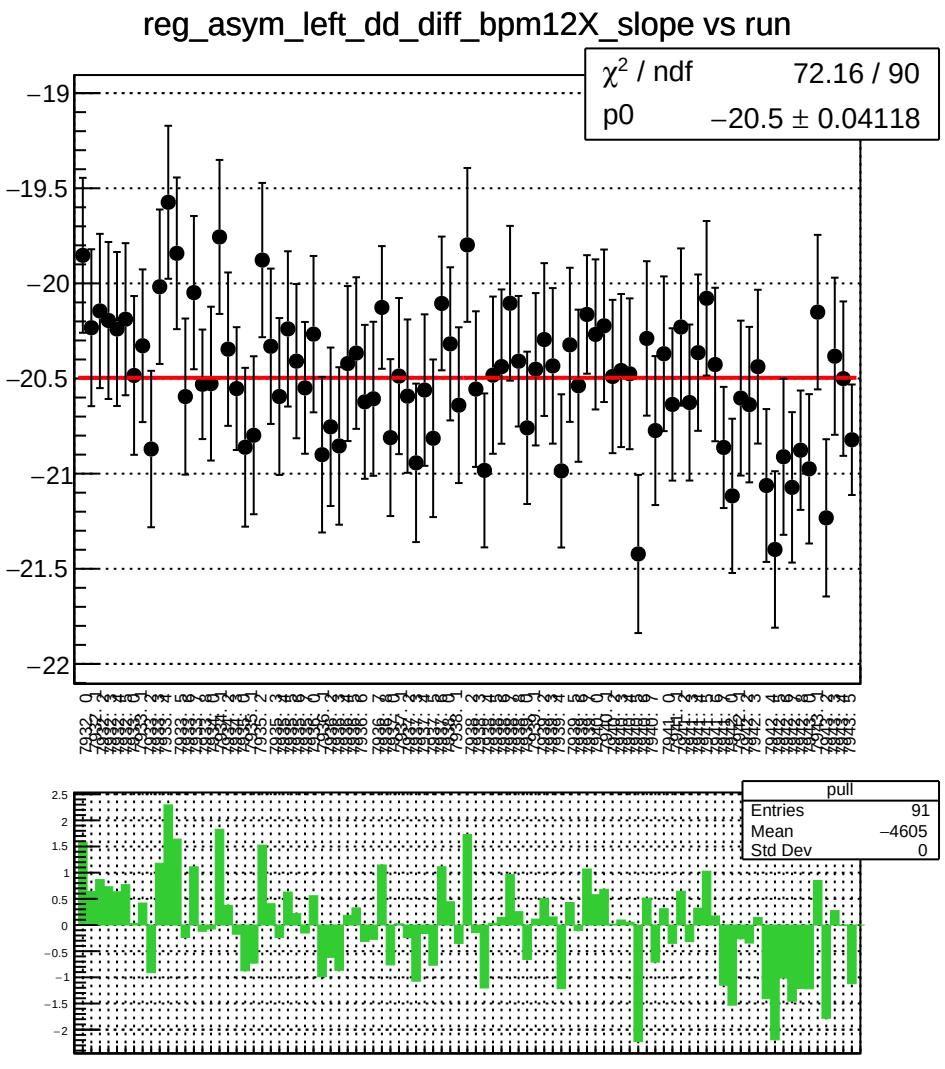

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.98 / 90
p0 7.829 ± 1.274
pull
Entries 91
Mean −488.8
Std Dev 0
pull1D
Entries 91
Mean −0.005241
Std Dev 0.7185

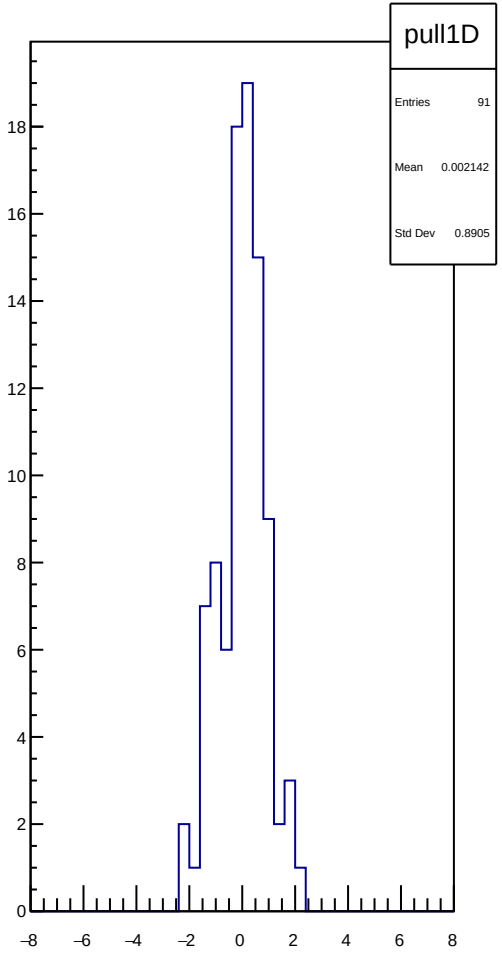

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.12 / 90
p0 −4.934 ± 1.1
pull
Entries 91
Mean −25.86
Std Dev 0

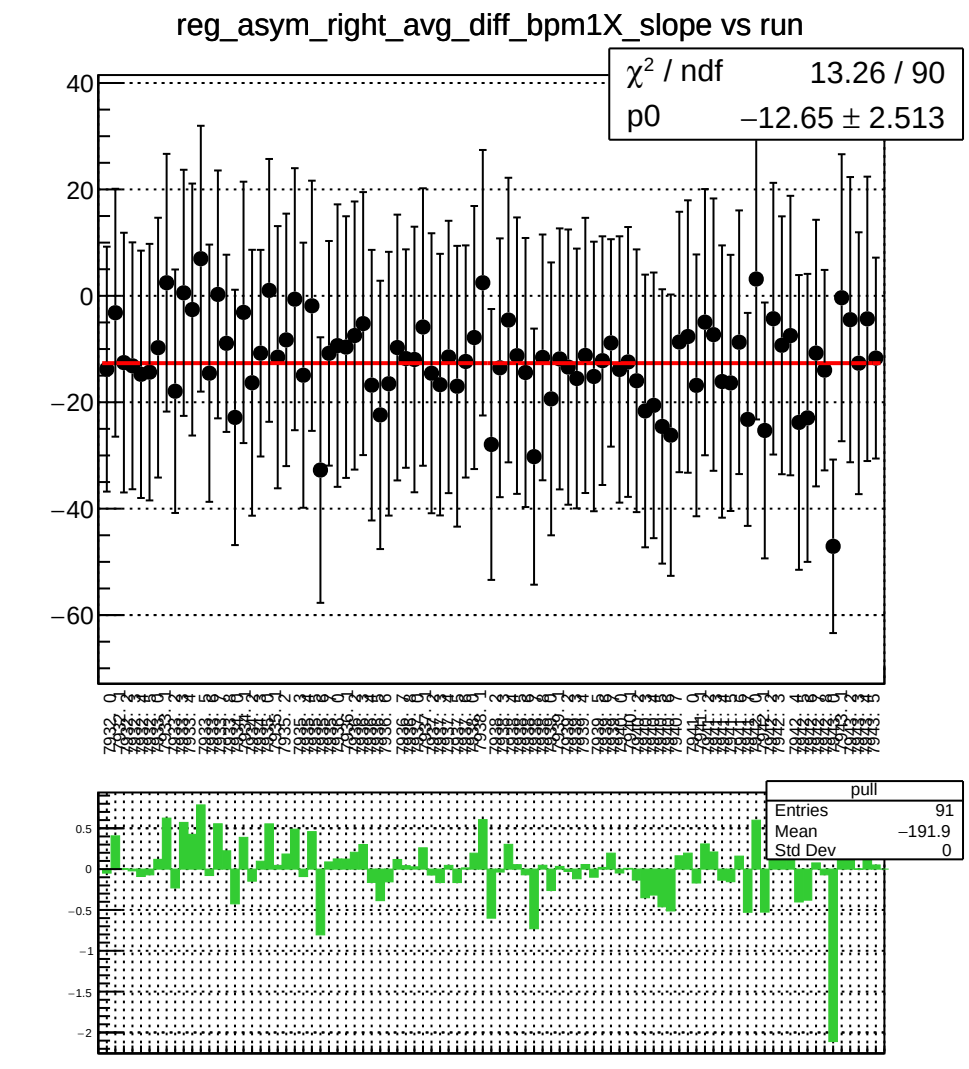

pull1D
Entries 91
Mean −0.01957
Std Dev 0.68

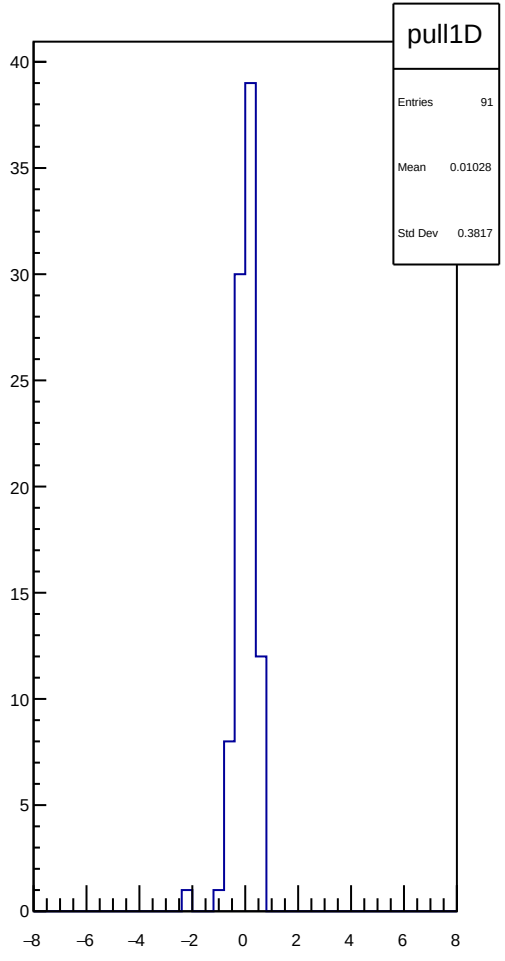

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.32 / 90
p0 5.953 ± 1.469
pull
Entries 91
Mean −349.6
Std Dev 0

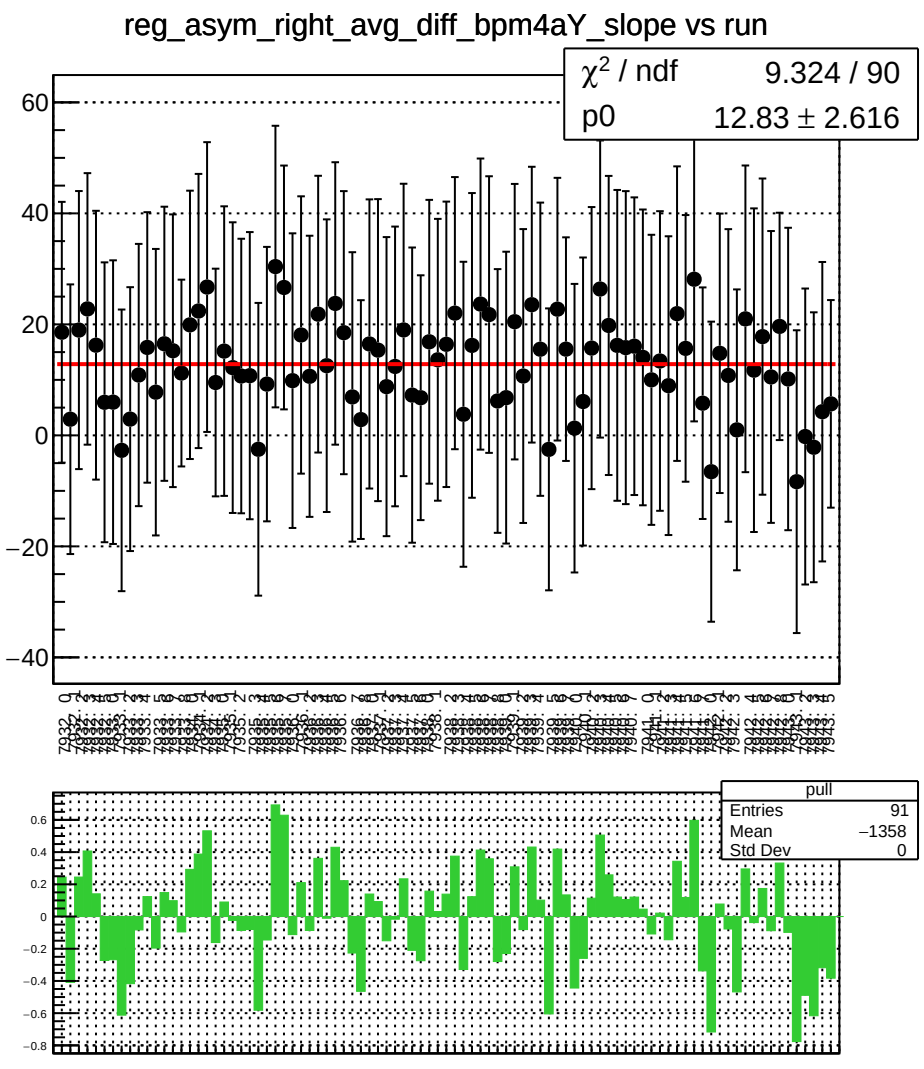

pull1D
Entries 91
Mean 0.006367
Std Dev 0.7211

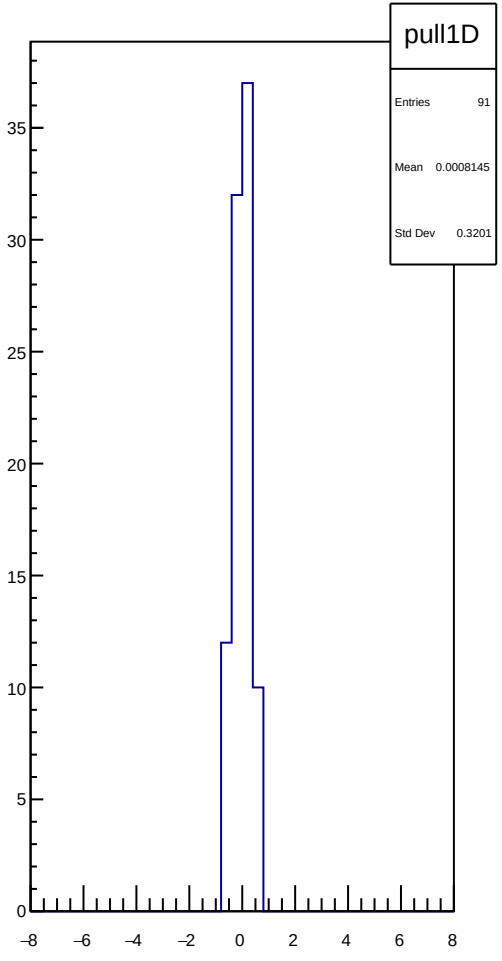

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 72.16 / 90
p0 −20.5 ± 0.04118
pull
Entries 91
Mean −4605
Std Dev 0

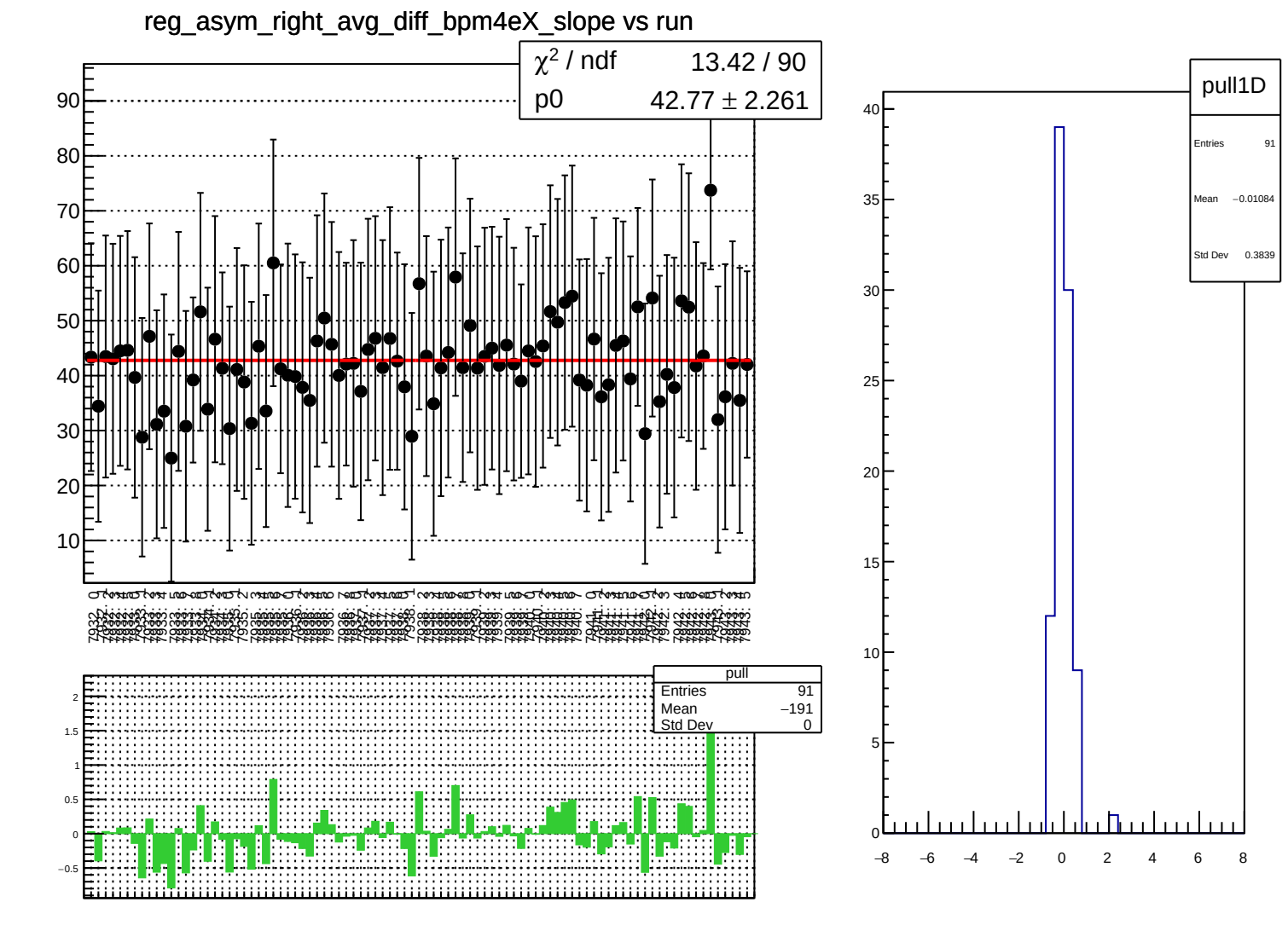

pull1D
Entries 91
Mean 0.002142
Std Dev 0.8905

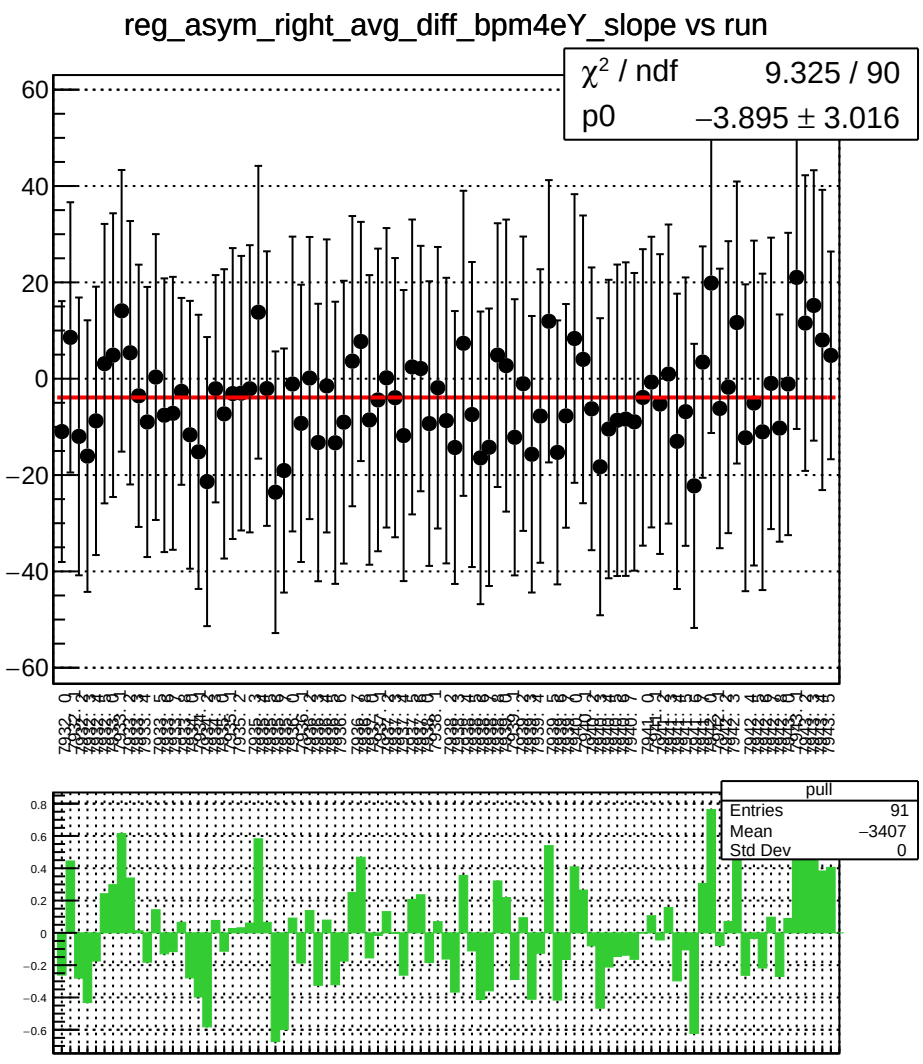

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 13.26 / 90
p0 −12.65 ± 2.513
pull
Entries 91
Mean −191.9
Std Dev 0

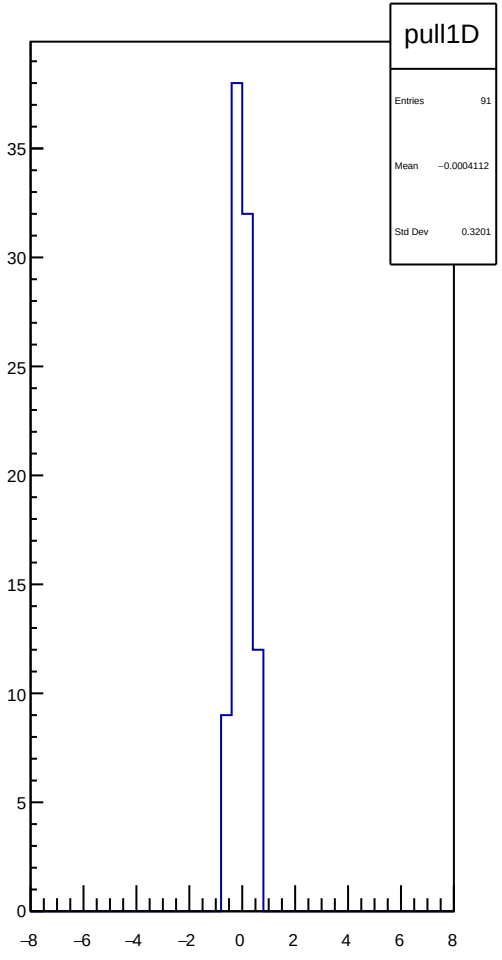

pull1D
Entries 91
Mean 0.01028
Std Dev 0.3817

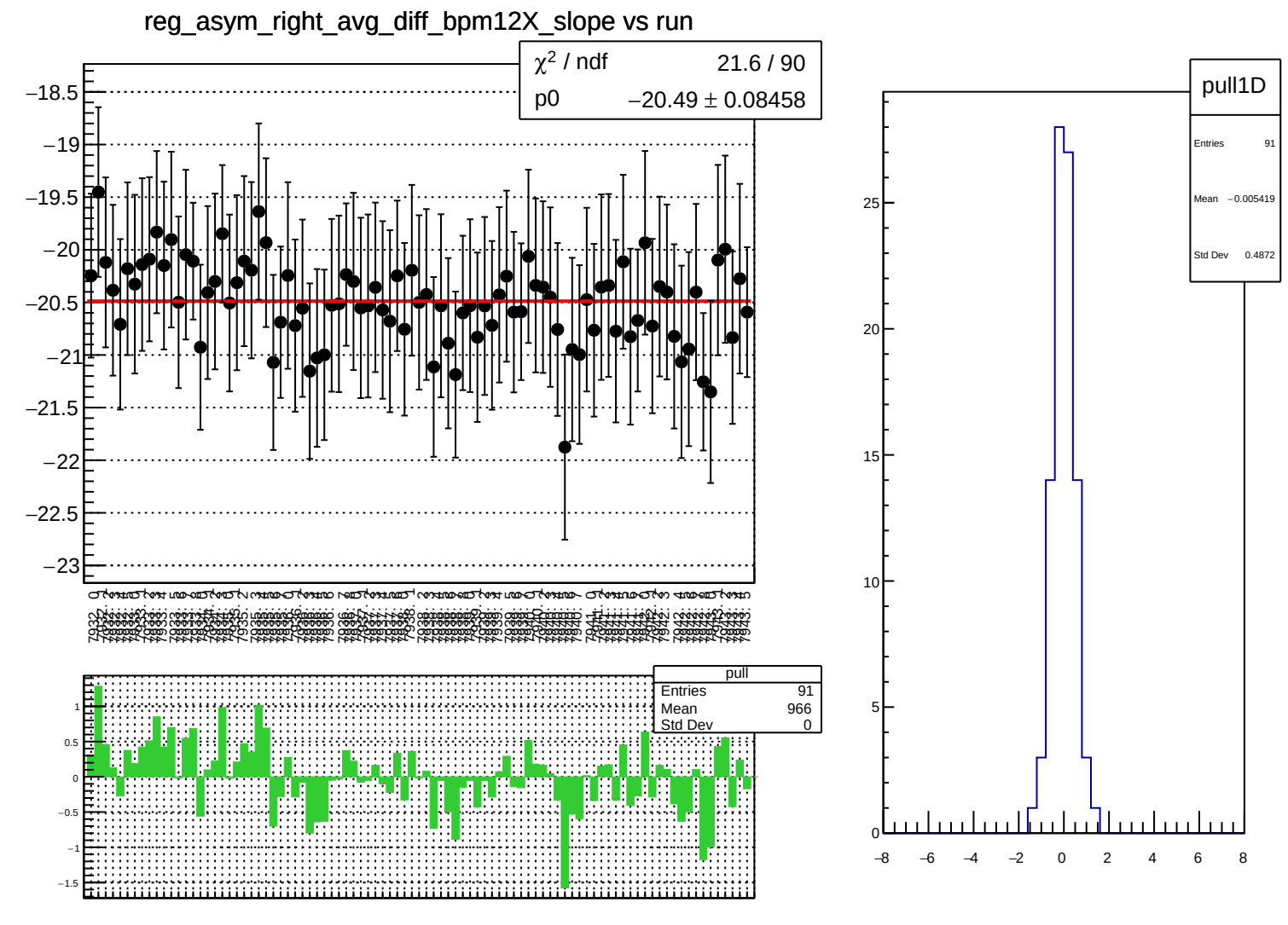

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.324 / 90
p0 12.83 ± 2.616
pull
Entries 91
Mean −1358
Std Dev 0

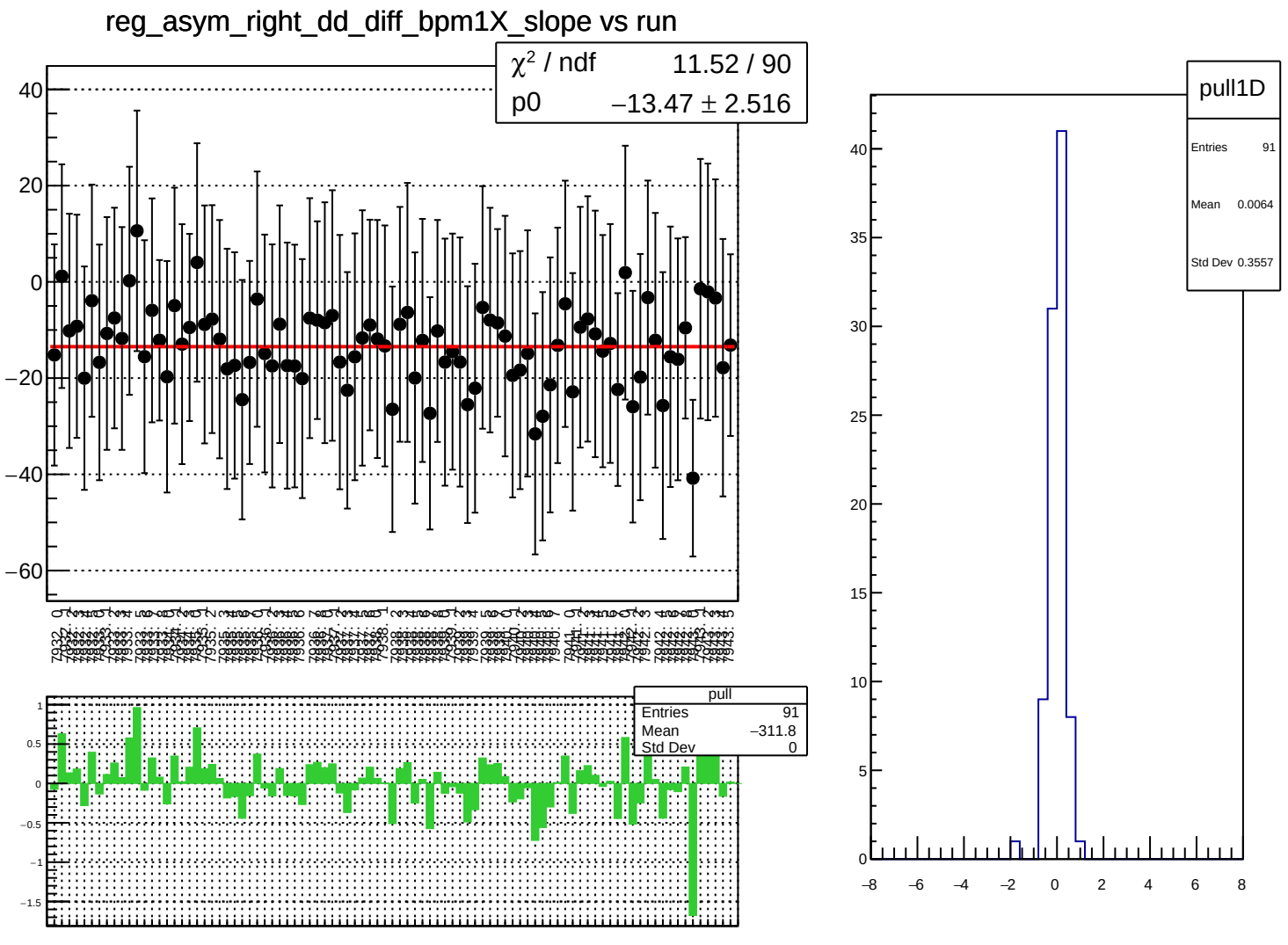

pull1D
Entries 91
Mean 0.0008145
Std Dev 0.3201

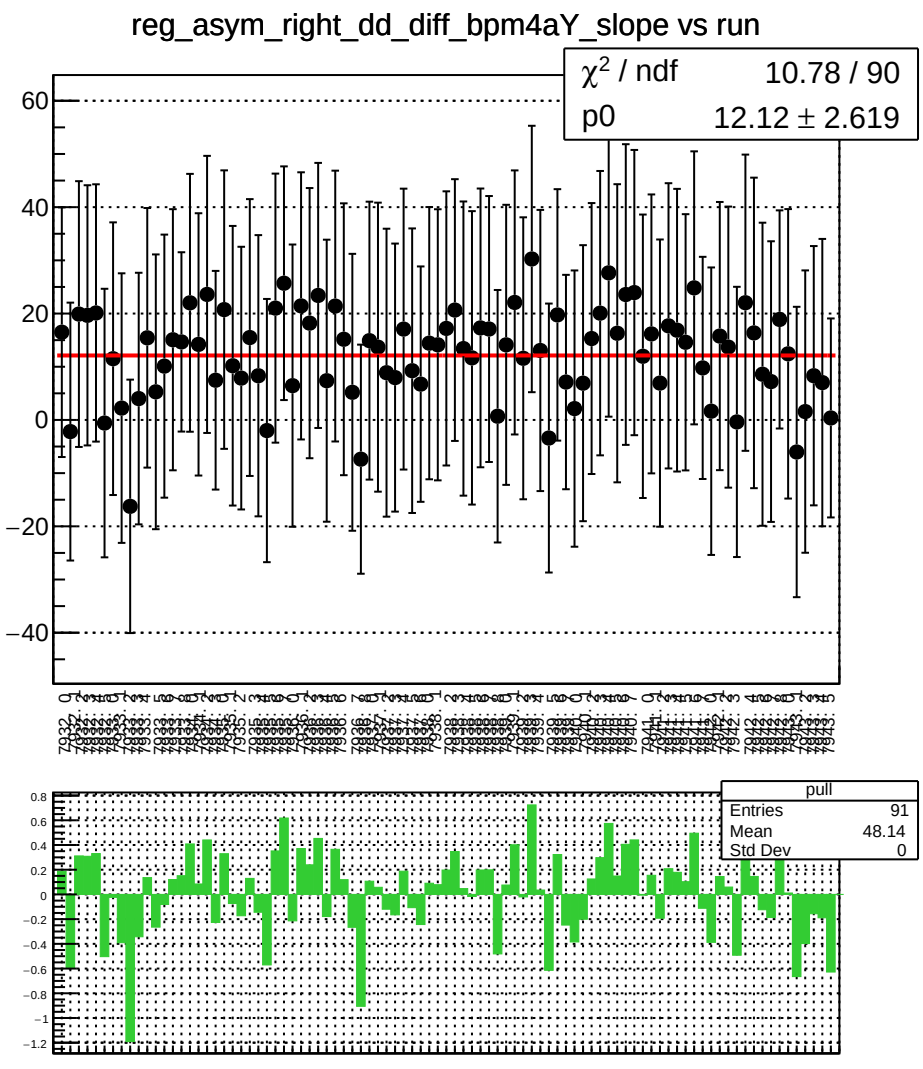

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.42 / 90
p0 42.77 ± 2.261
pull
Entries 91
Mean −191
Std Dev 0
pull1D
Entries 91
Mean −0.01084
Std Dev 0.3839

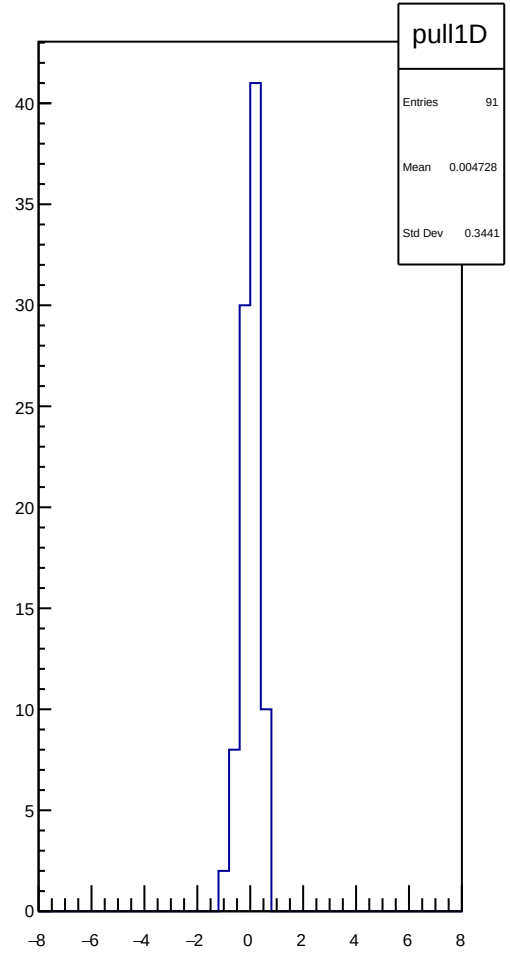

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.325 / 90
p0 −3.895 ± 3.016
pull
Entries 91
Mean −3407
Std Dev 0

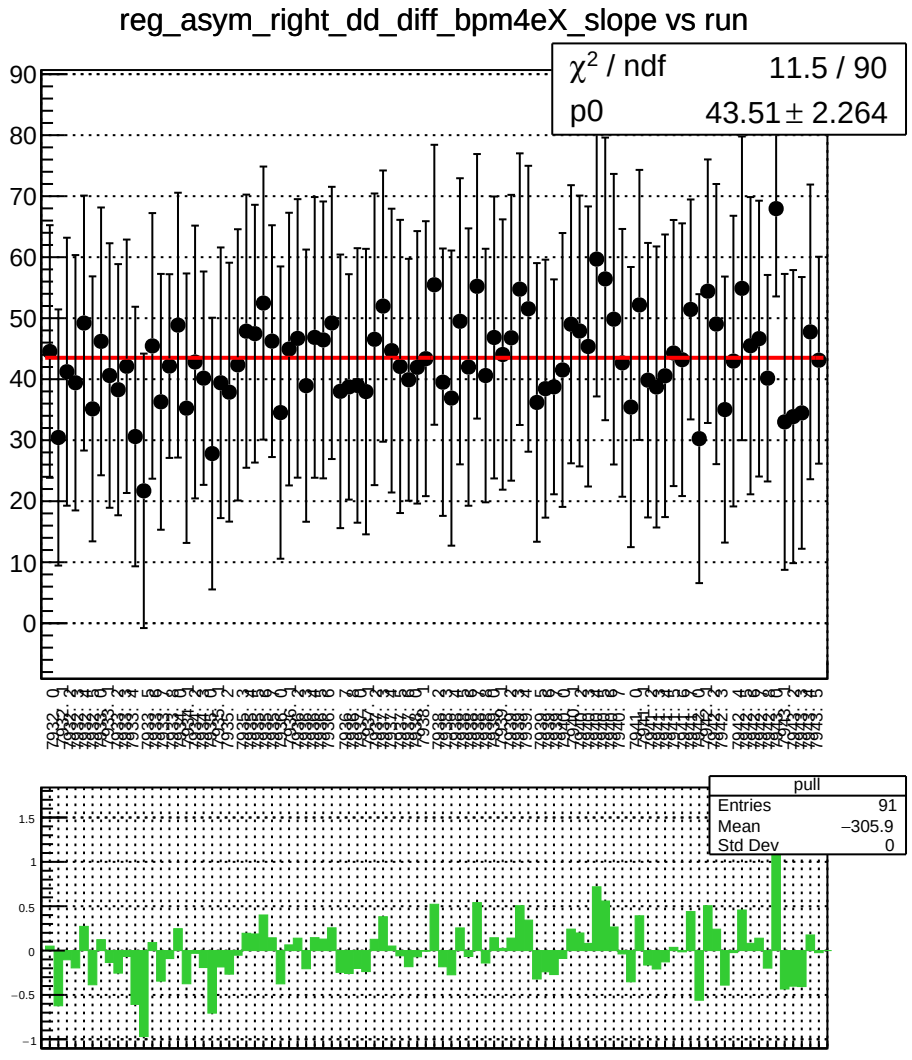

pull1D
Entries 91
Mean −0.0004112
Std Dev 0.3201

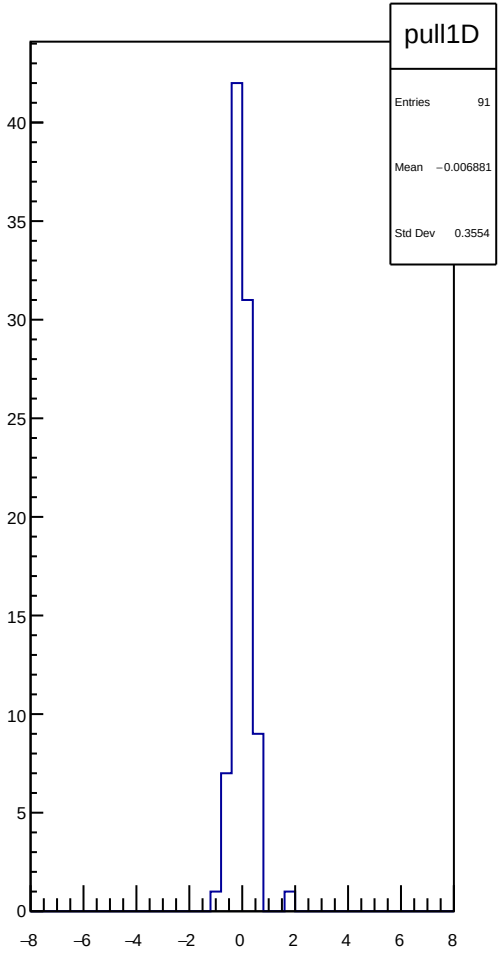

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 21.6 / 90
p0 −20.49 ± 0.08458
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
−22.5
−23
pull
Entries 91
Mean 966
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.005419
Std Dev 0.4872
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

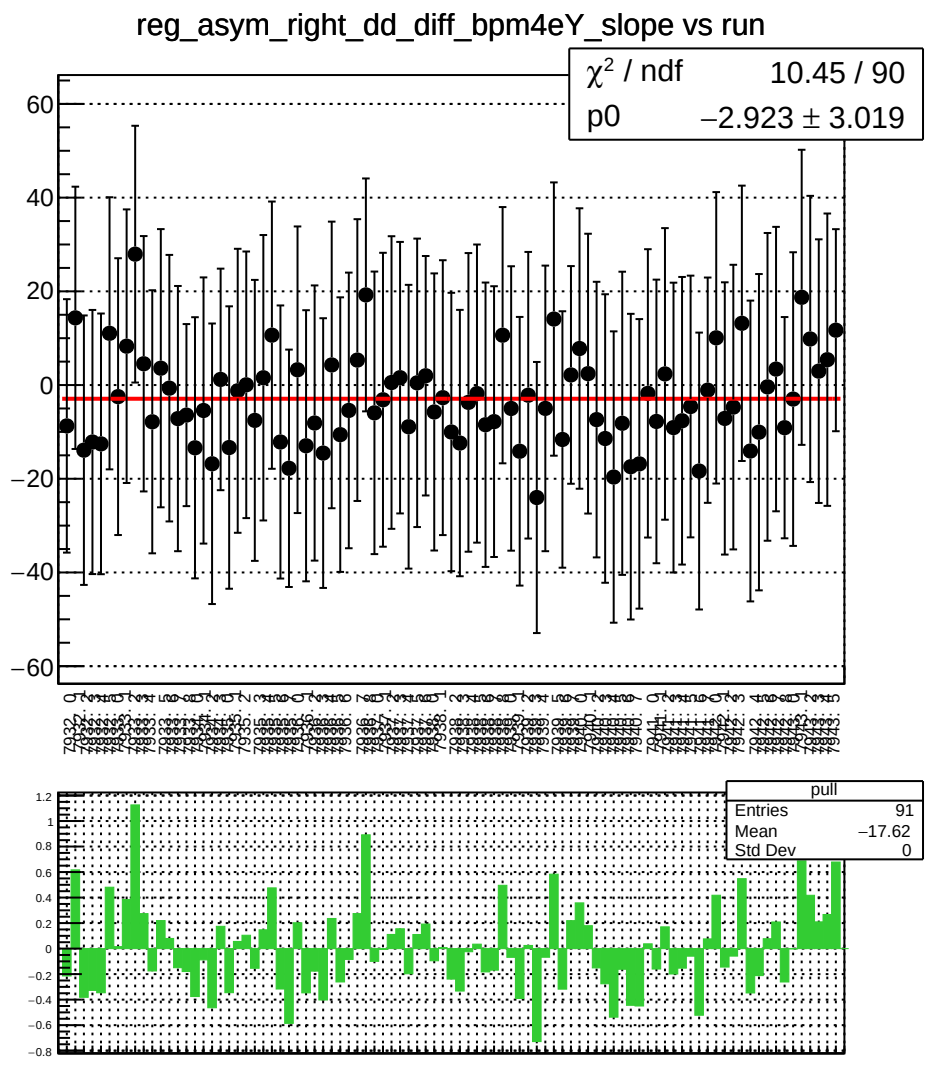

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 11.52 / 90
p0 −13.47 ± 2.516
pull
Entries 91
Mean −311.8
Std Dev 0
pull1D
Entries 91
Mean 0.0064
Std Dev 0.3557

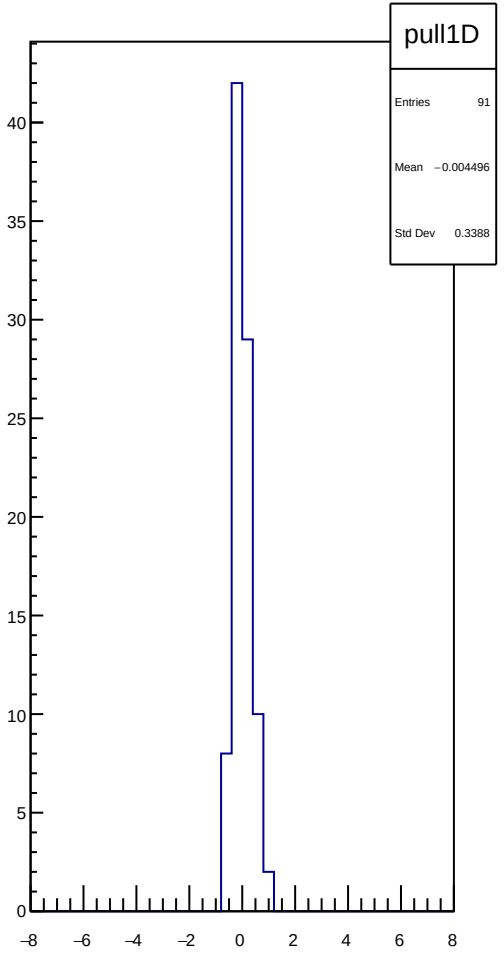

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.78 / 90
p0 12.12 ± 2.619
pull
Entries 91
Mean 48.14
Std Dev 0

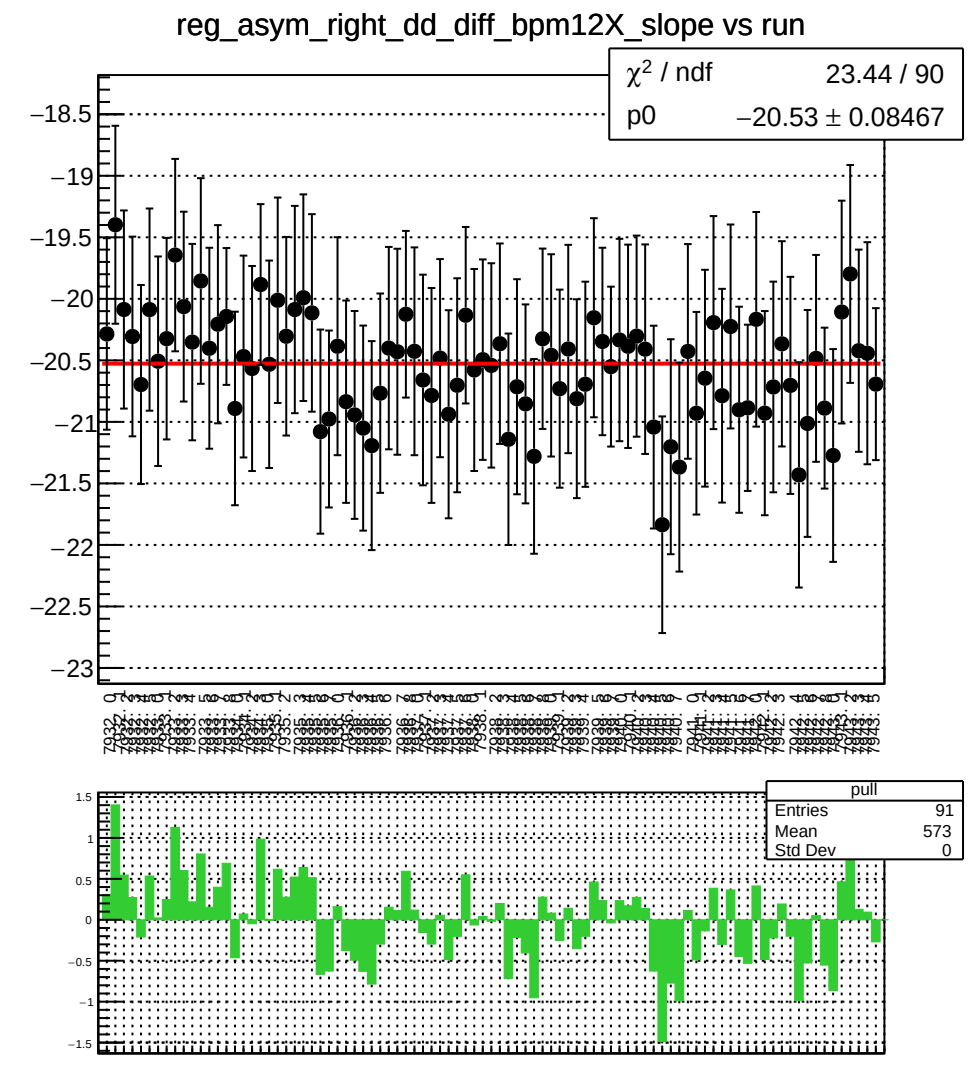

pull1D
Entries 91
Mean 0.004728
Std Dev 0.3441

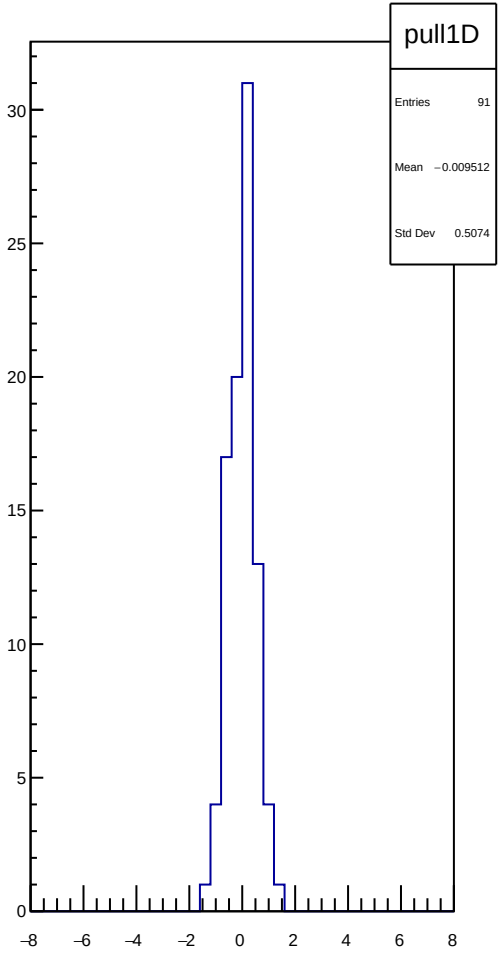

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 11.5 / 90
p0 43.51 ± 2.264
pull
Entries 91
Mean −305.9
Std Dev 0

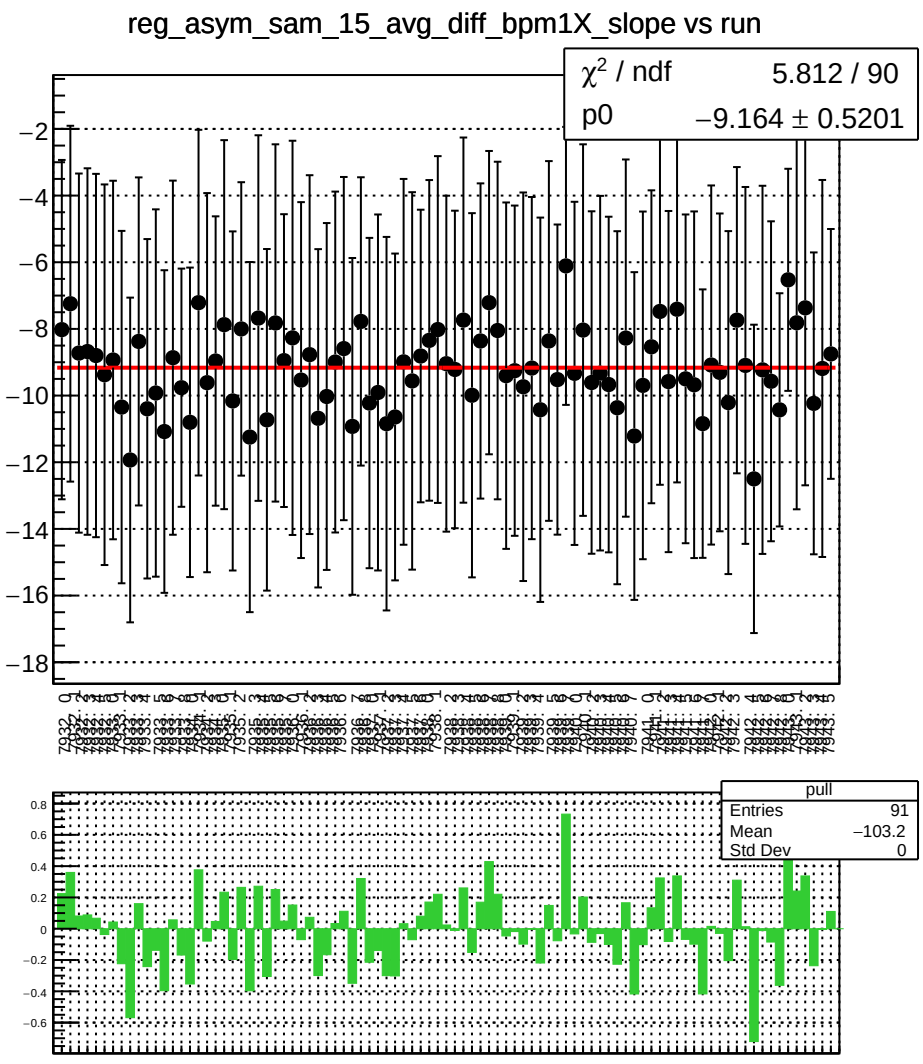

pull1D
Entries 91
Mean −0.006881
Std Dev 0.3554

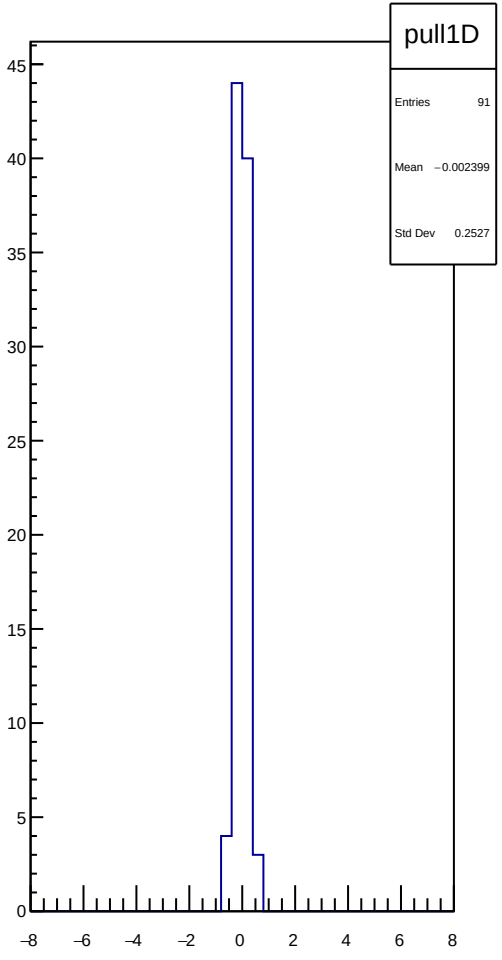

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.45 / 90
p0 −2.923 ± 3.019
pull
Entries 91
Mean −17.62
Std Dev 0

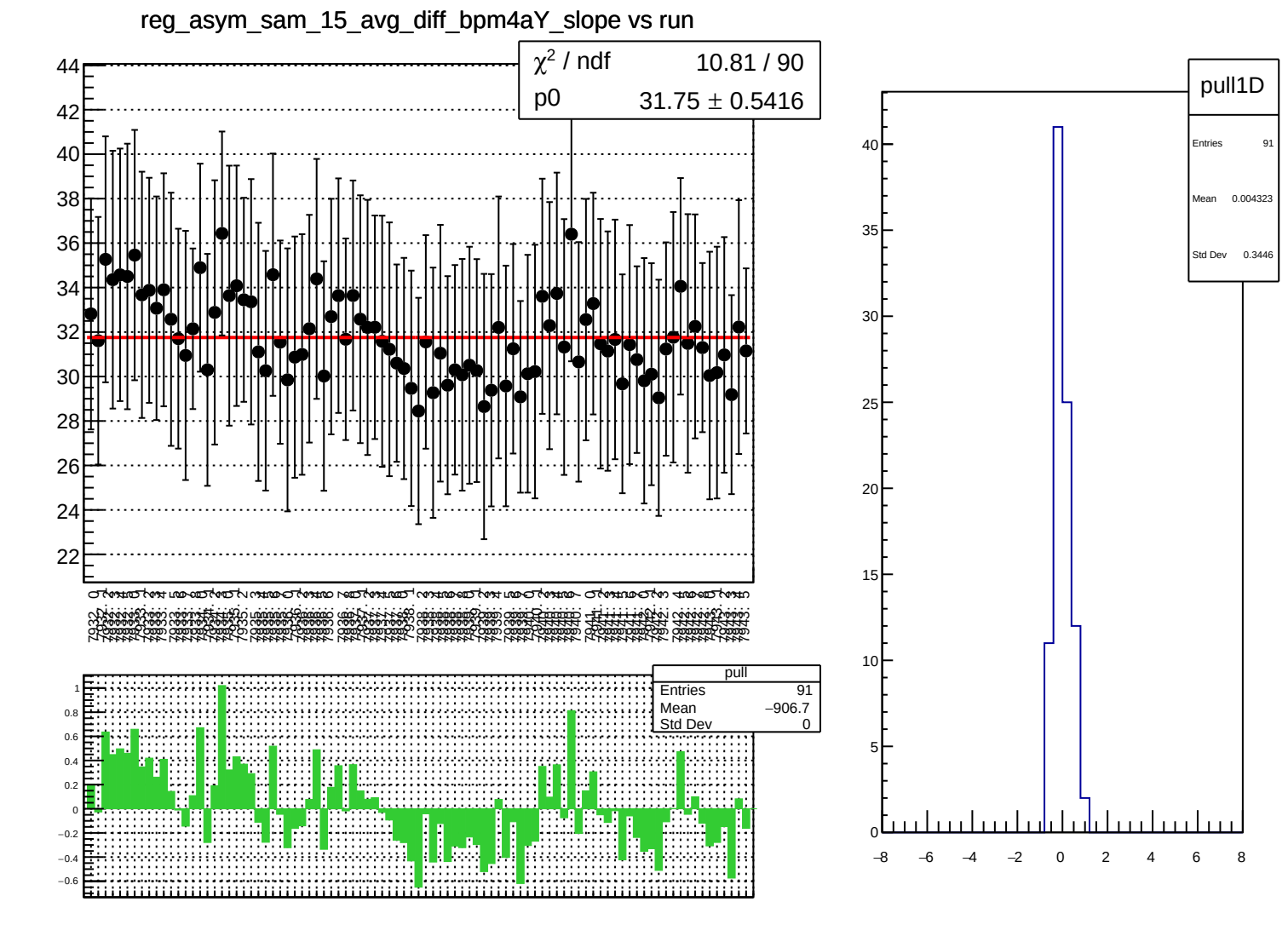

pull1D
Entries 91
Mean −0.004496
Std Dev 0.3388

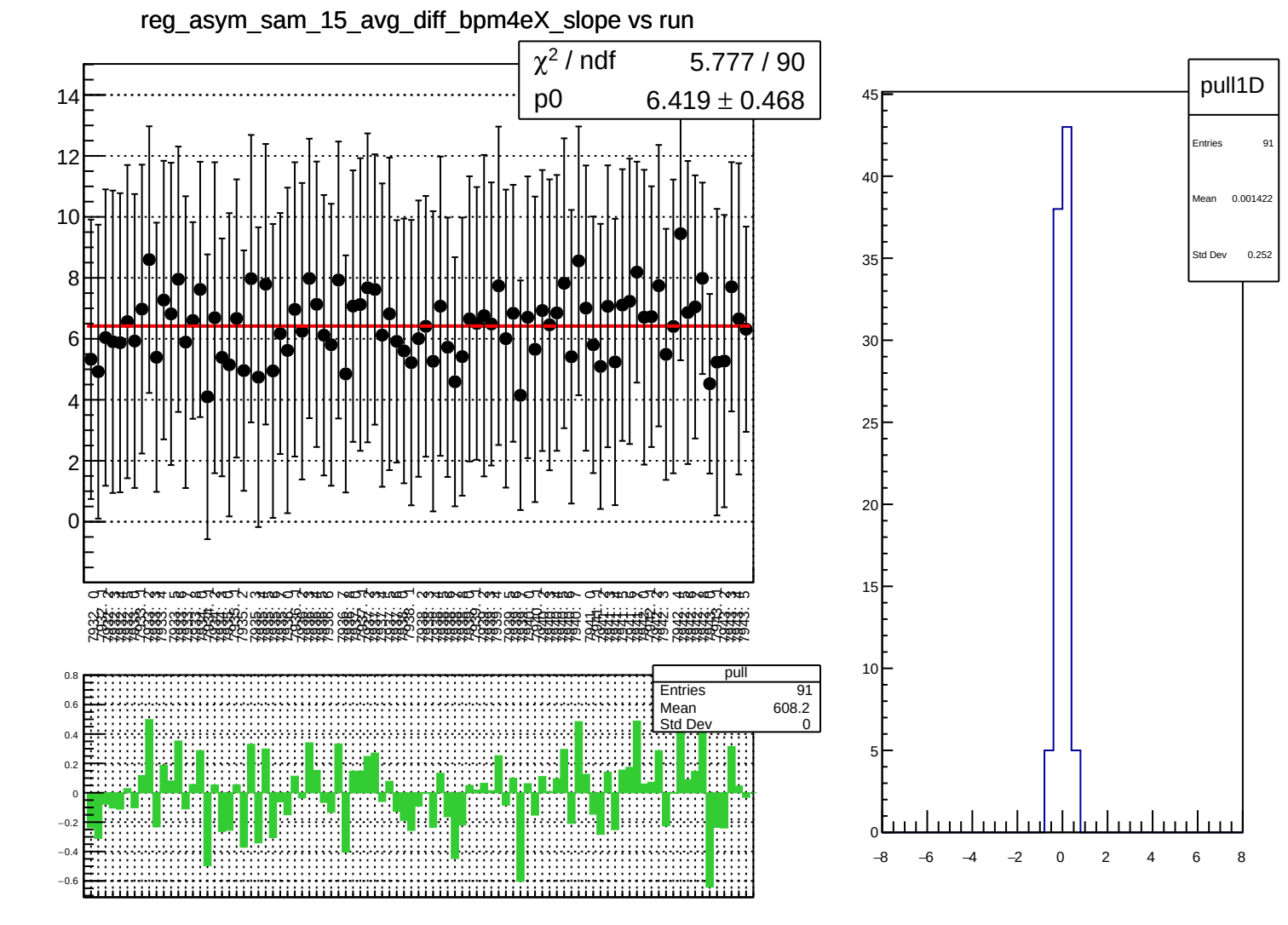

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 23.44 / 90
p0 −20.53 ± 0.08467
pull
Entries 91
Mean 573
Std Dev 0

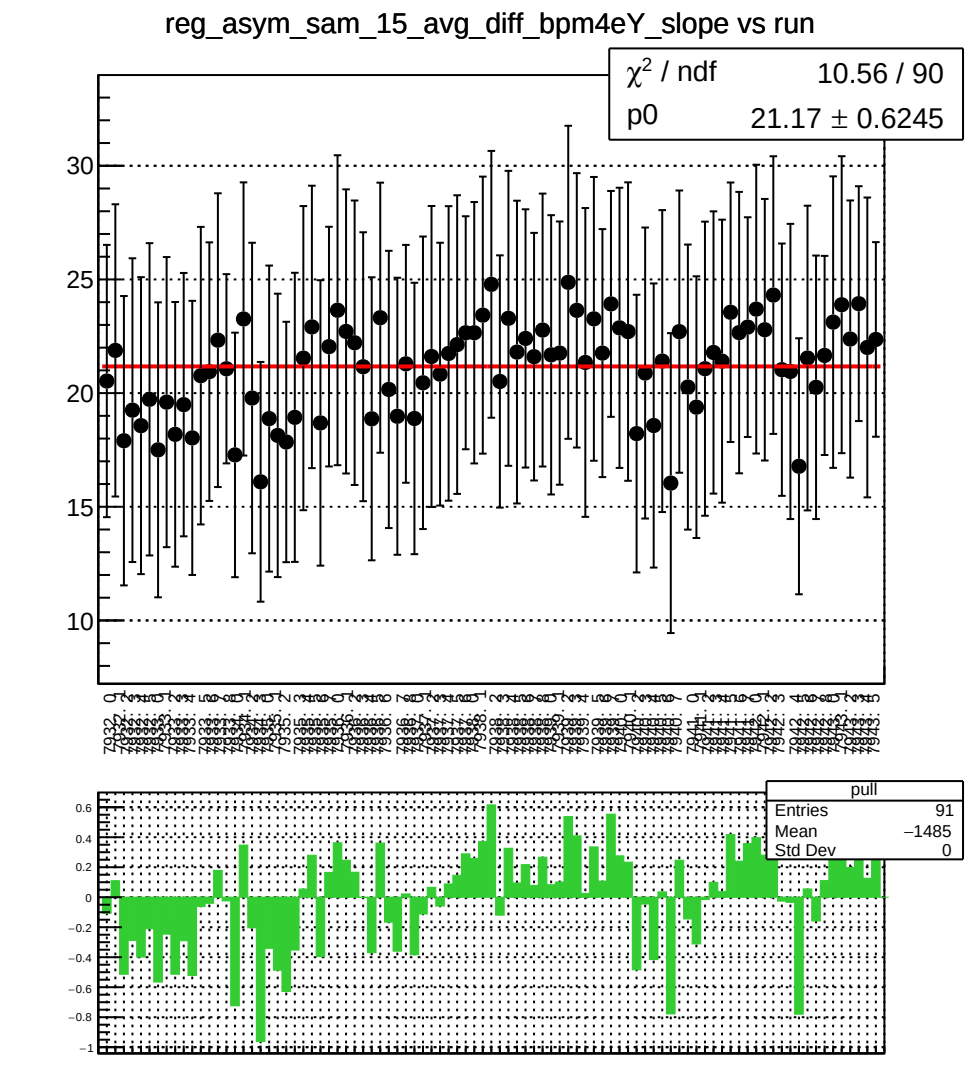

pull1D
Entries 91
Mean −0.009512
Std Dev 0.5074

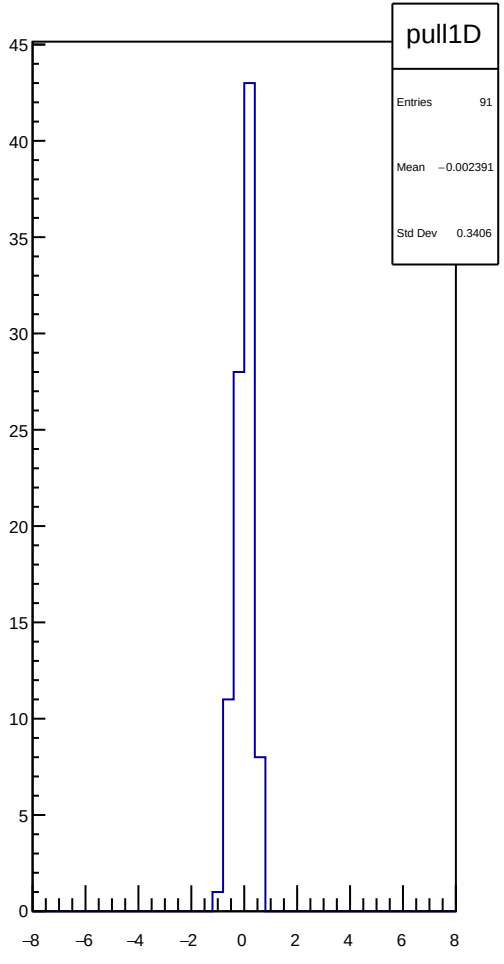

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 5.812 / 90
p0 −9.164 ± 0.5201
pull
Entries 91
Mean −103.2
Std Dev 0

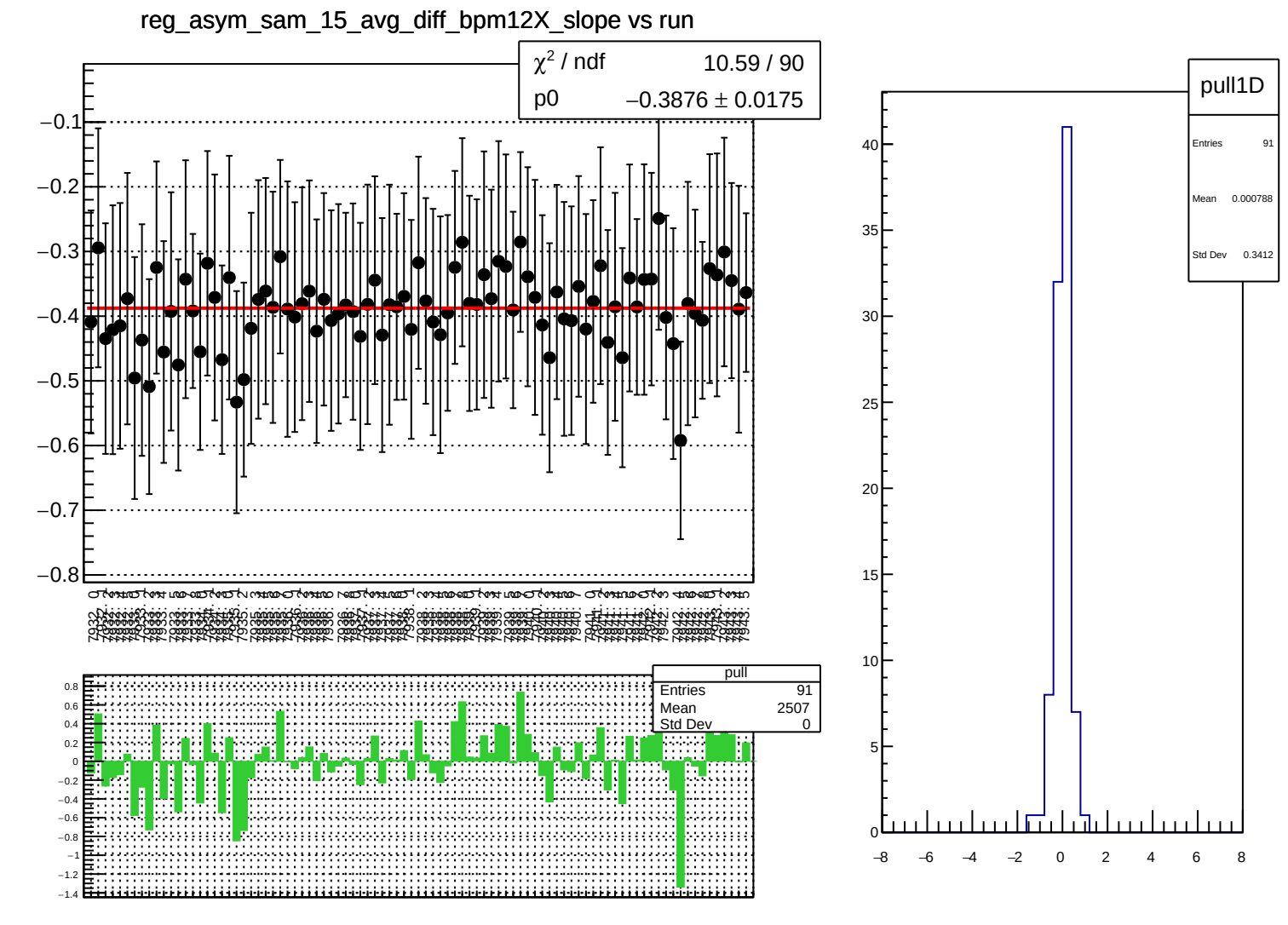

pull1D
Entries 91
Mean −0.002399
Std Dev 0.2527

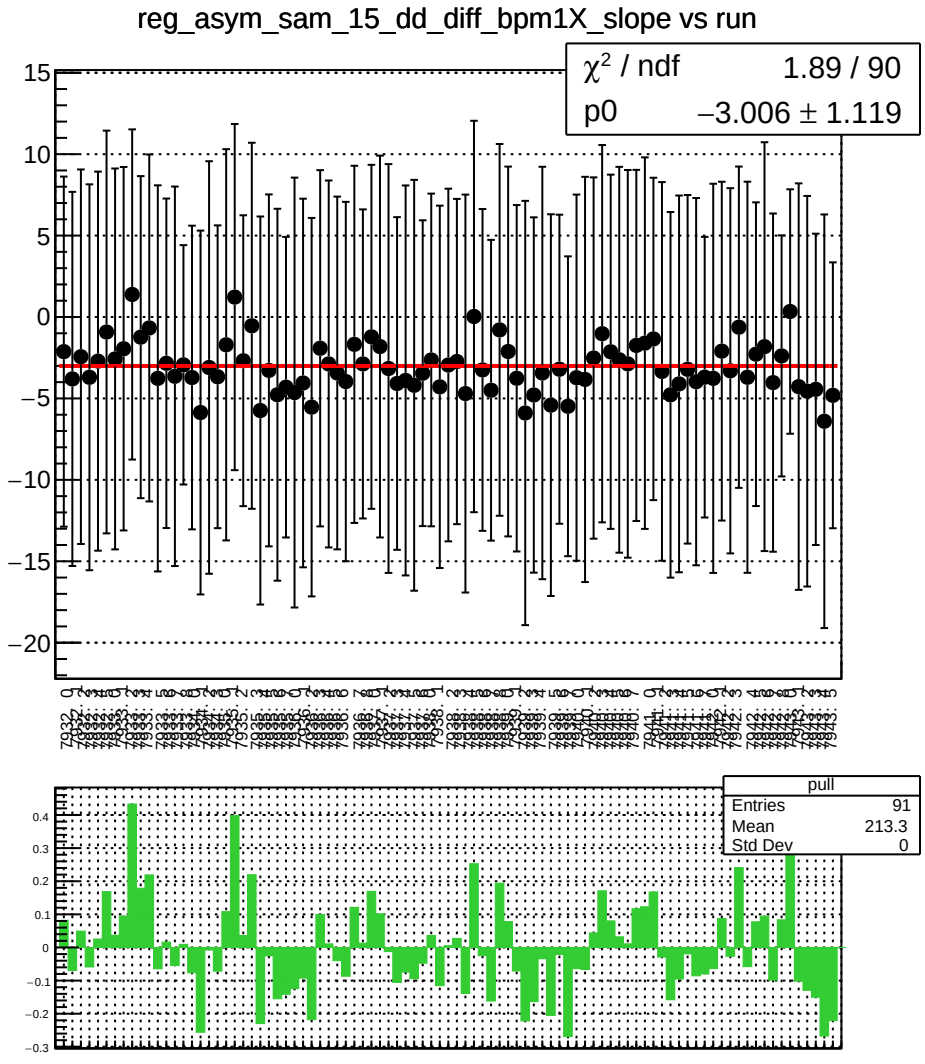

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.81 / 90
p0 31.75 ± 0.5416
pull
Entries 91
Mean −906.7
Std Dev 0
pull1D
Entries 91
Mean 0.004323
Std Dev 0.3446

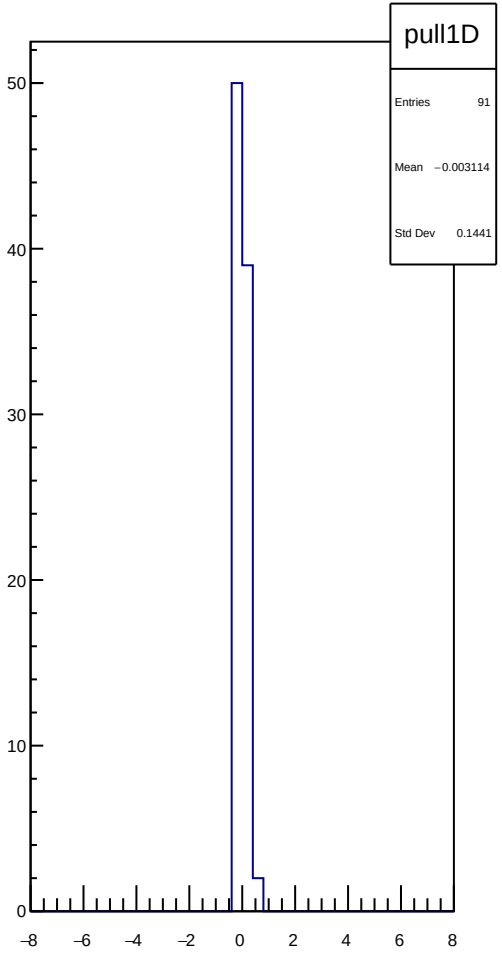

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.777 / 90
p0 6.419 ± 0.468
pull
Entries 91
Mean 608.2
Std Dev 0
pull1D
Entries 91
Mean 0.001422
Std Dev 0.252

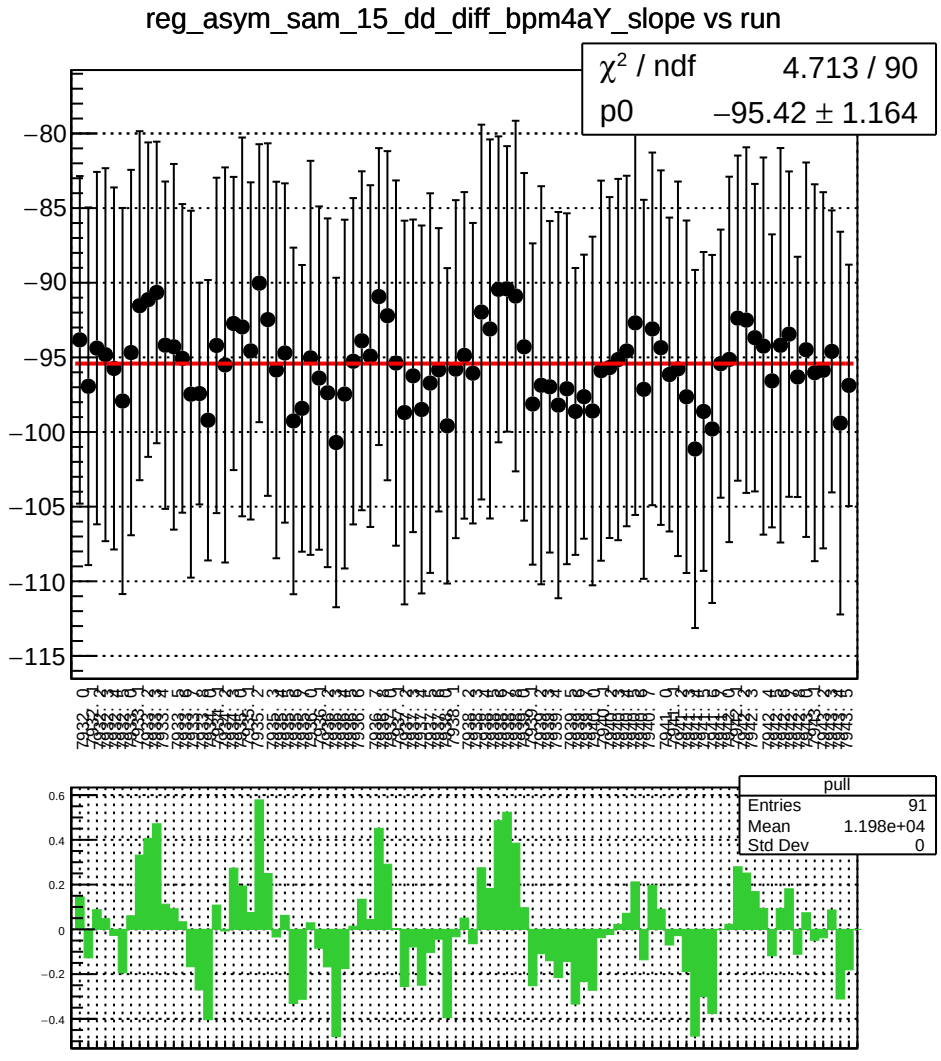

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.56 / 90
p0 21.17 ± 0.6245
pull
Entries 91
Mean −1485
Std Dev 0

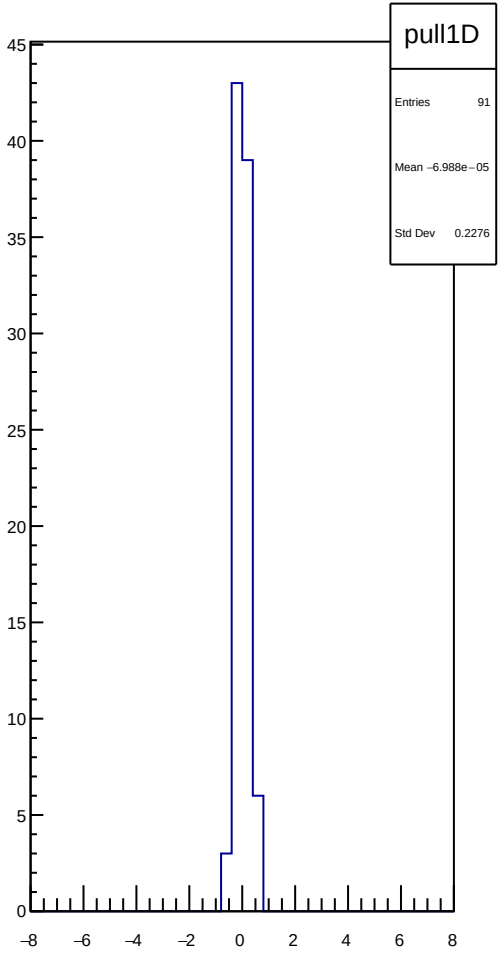

pull1D
Entries 91
Mean −0.002391
Std Dev 0.3406

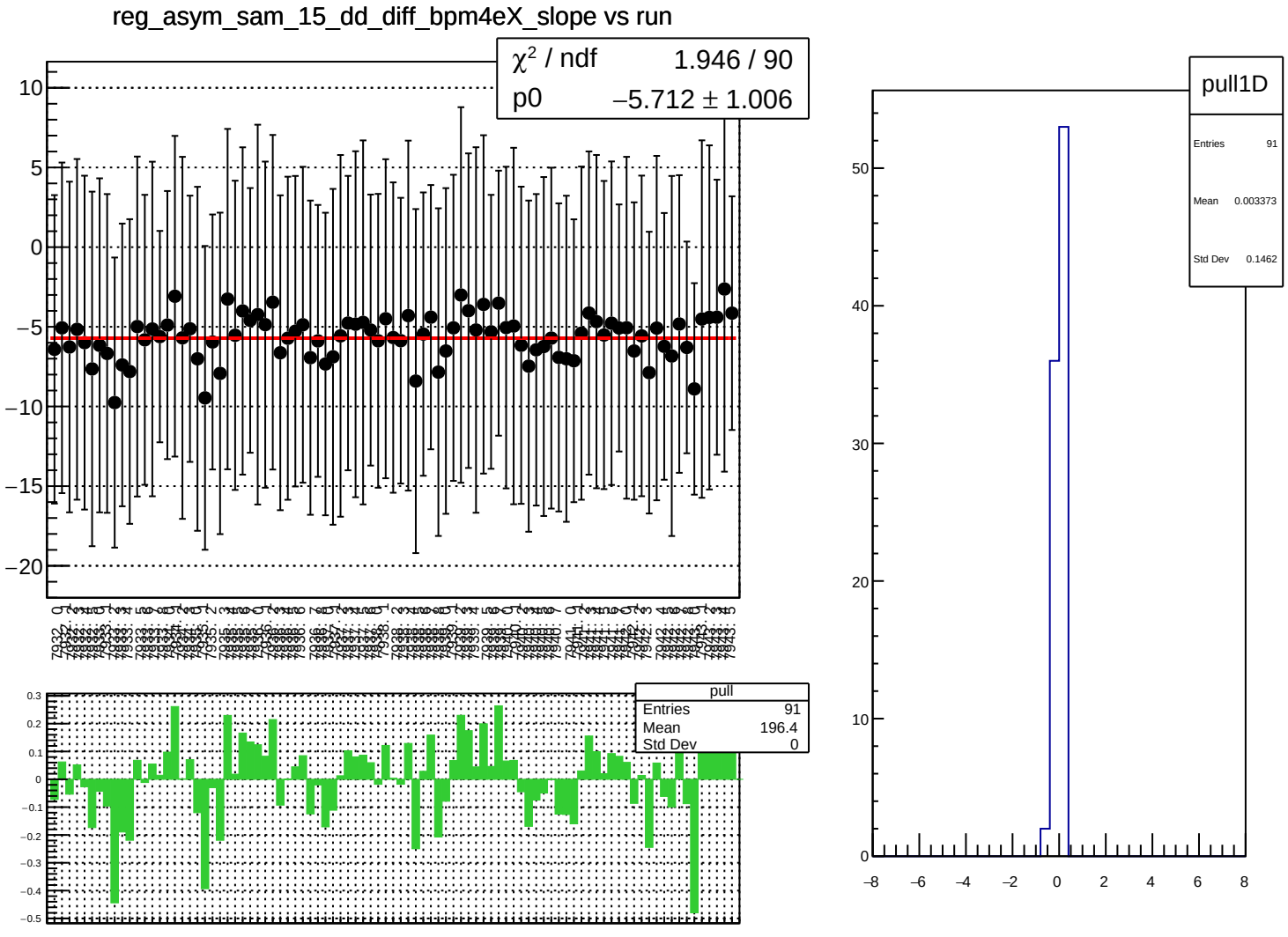

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 10.59 / 90
p0 −0.3876 ± 0.0175
pull
Entries 91
Mean 2507
Std Dev 0
pull1D
Entries 91
Mean 0.000788
Std Dev 0.3412

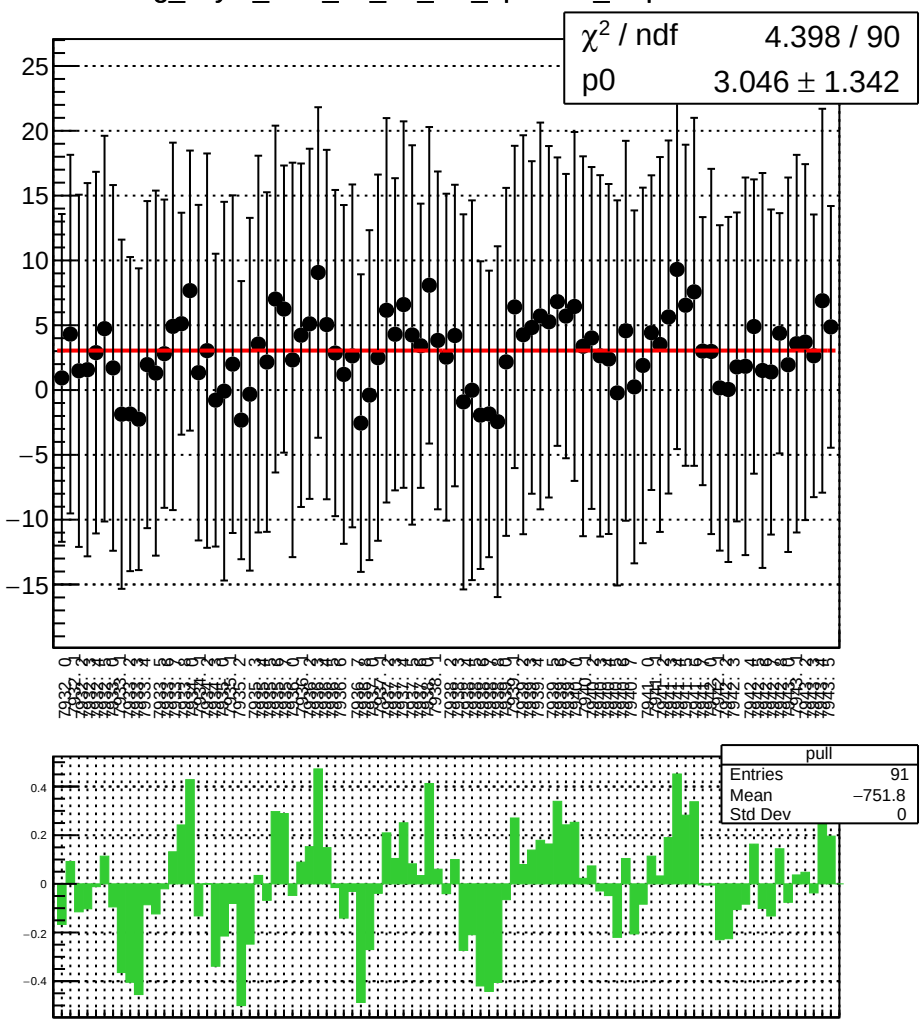

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.89 / 90
p0 −3.006 ± 1.119
pull
Entries 91
Mean 213.3
Std Dev 0

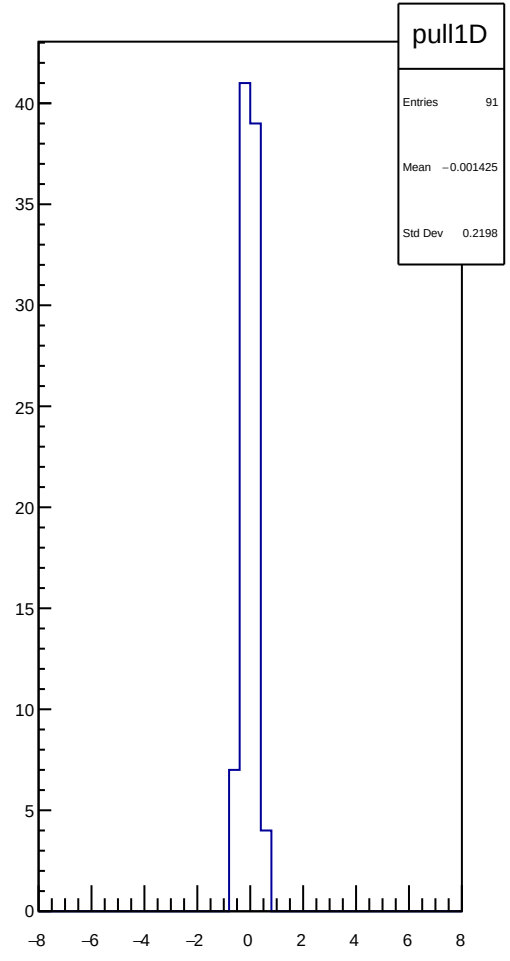

pull1D
Entries 91
Mean −0.003114
Std Dev 0.1441

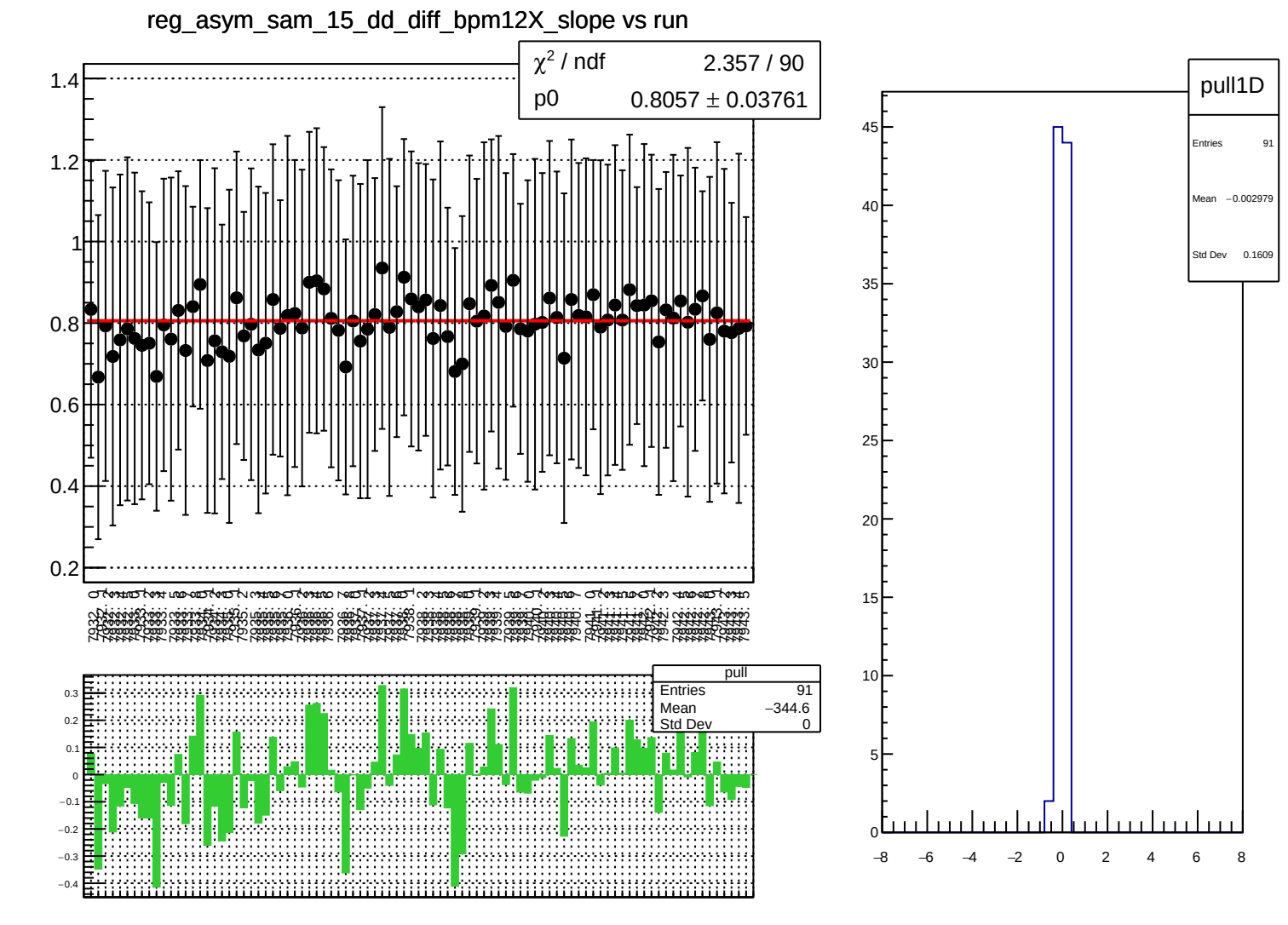

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.713 / 90
p0 −95.42 ± 1.164
pull
Entries 91
Mean 1.198e+04
Std Dev 0

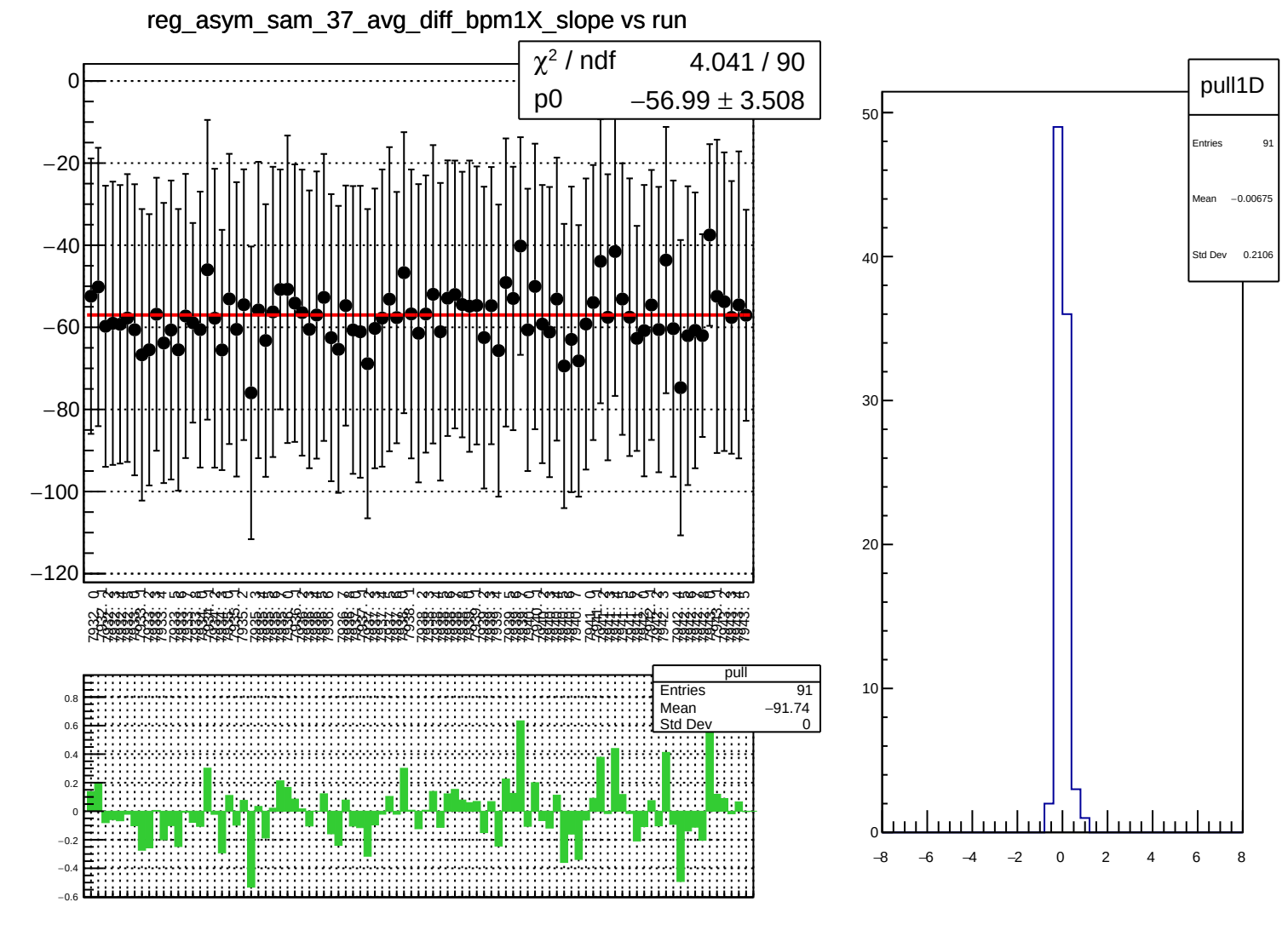

pull1D
Entries 91
Mean −6.988e−05
Std Dev 0.2276

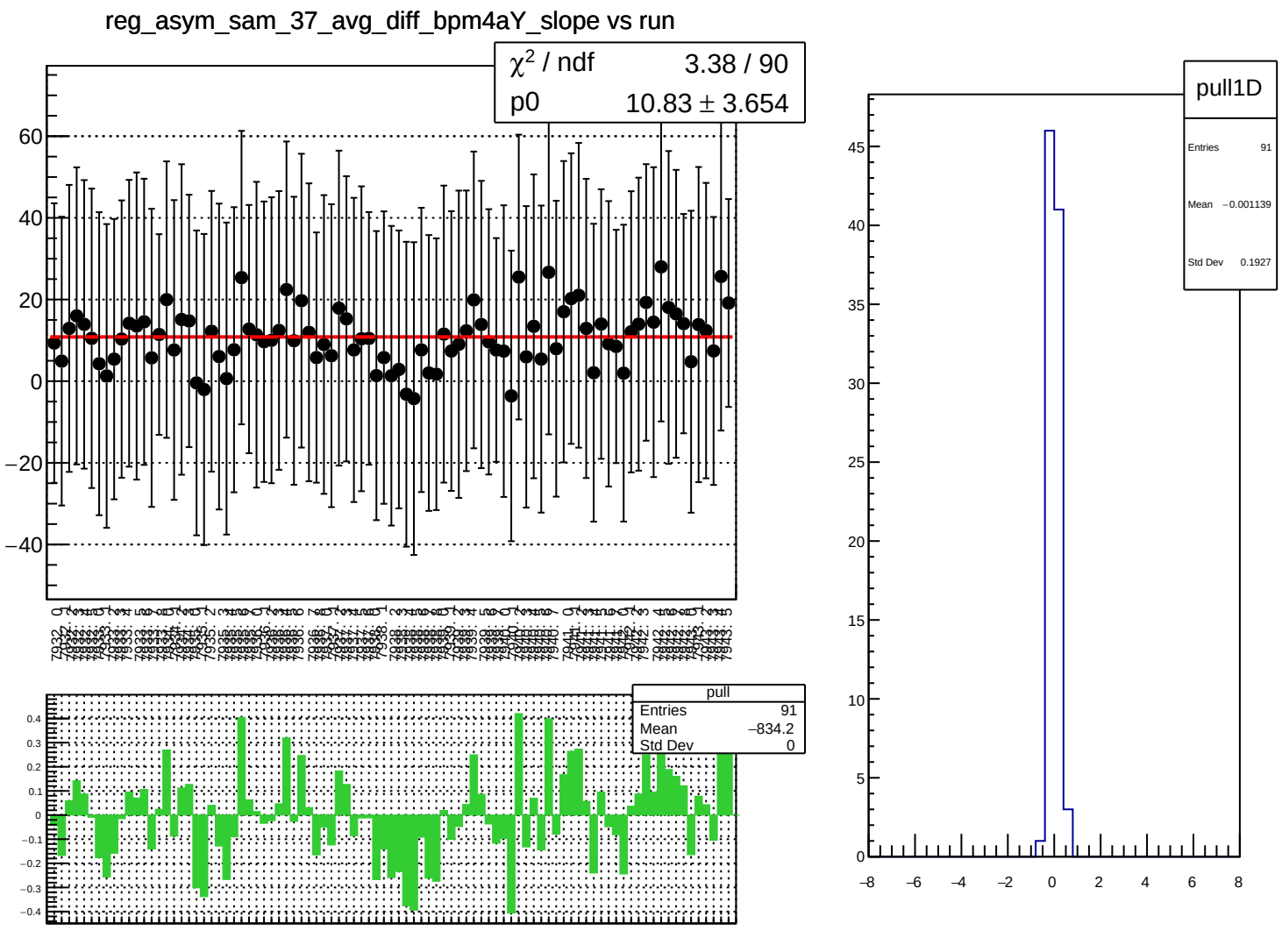

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.946 / 90
p0 −5.712 ± 1.006
pull
Entries 91
Mean 196.4
Std Dev 0
pull1D
Entries 91
Mean 0.003373
Std Dev 0.1462

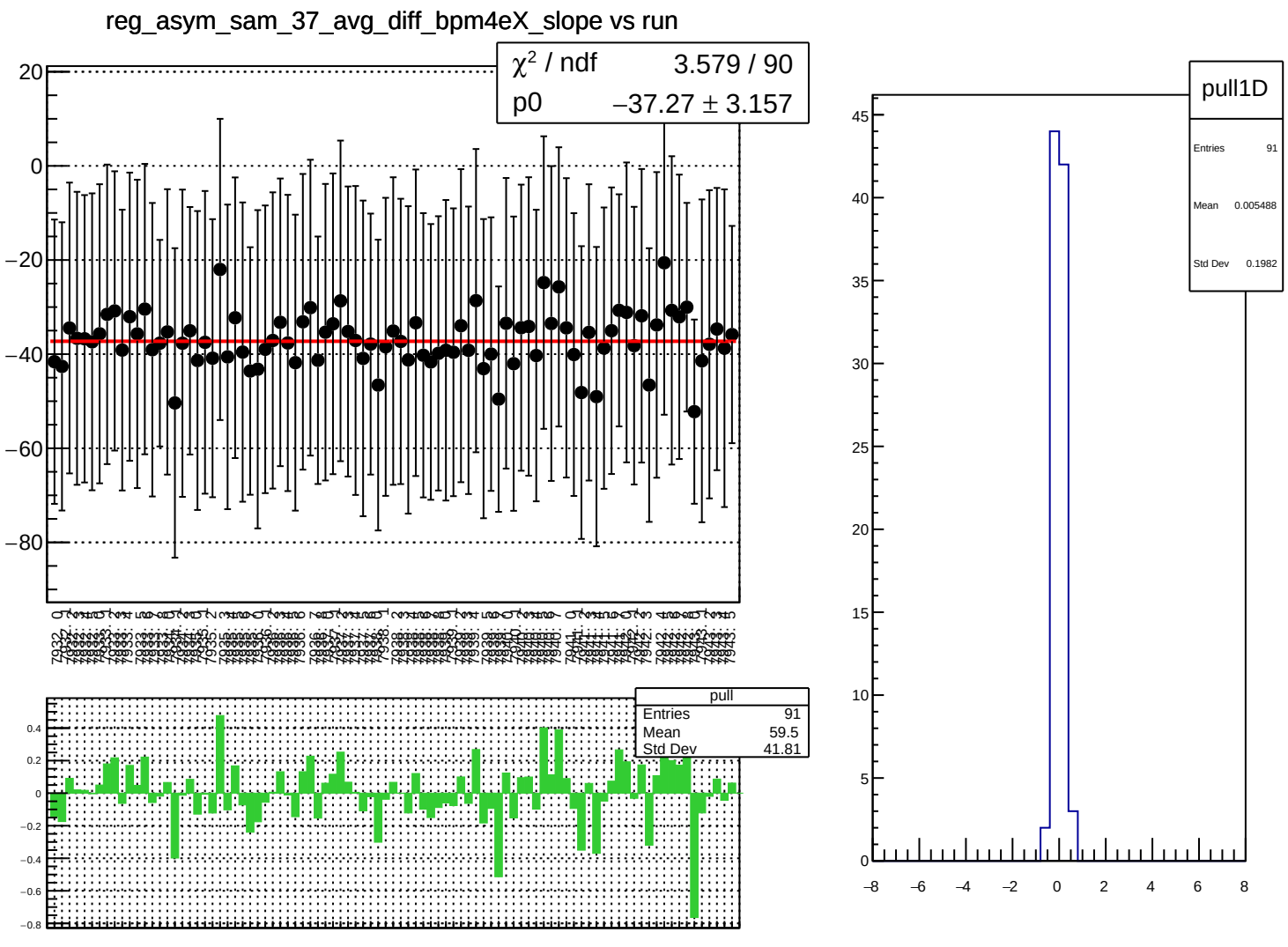

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.398 / 90
p0 3.046 ± 1.342
pull
Entries 91
Mean −751.8
Std Dev 0

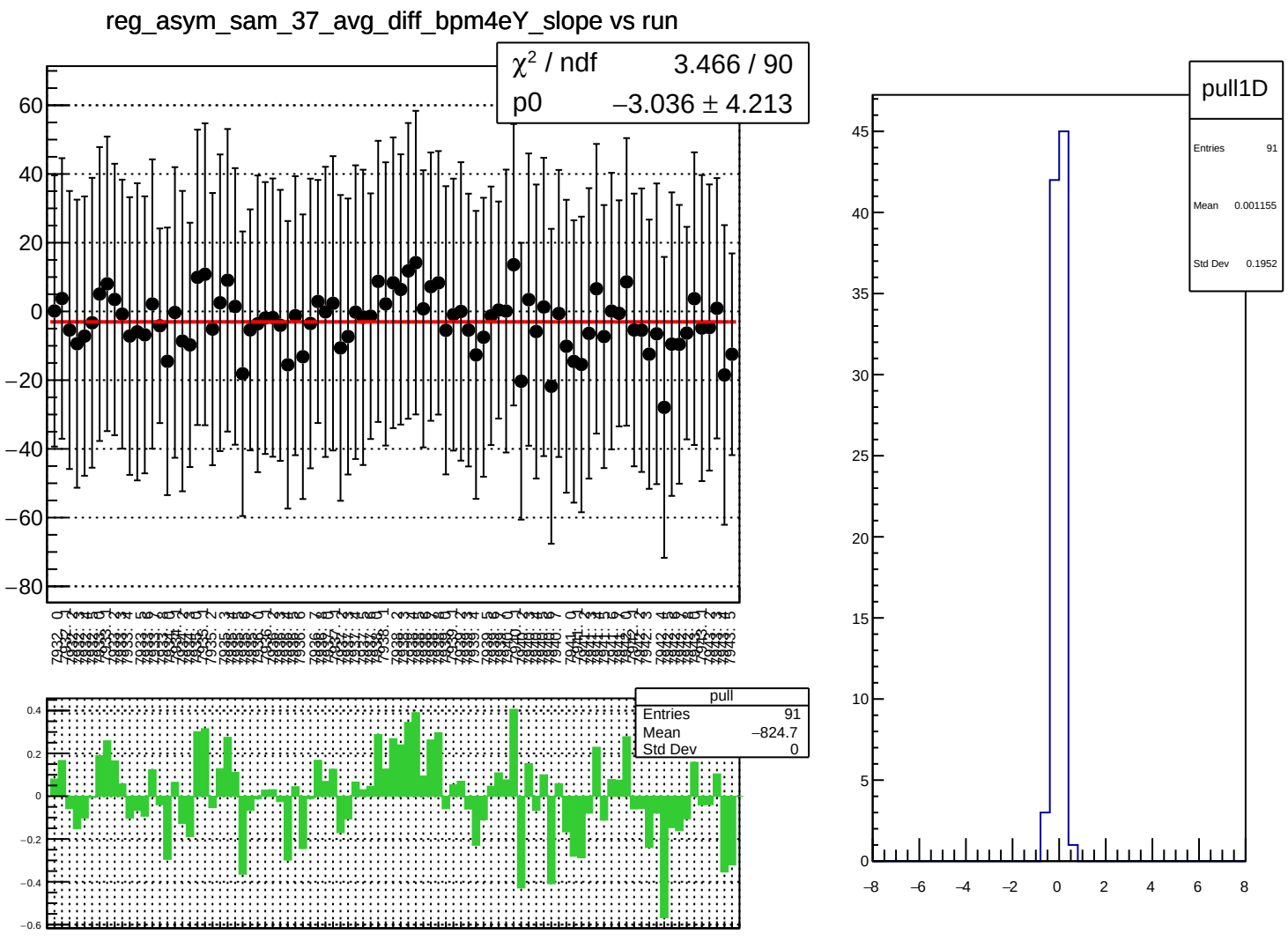

pull1D
Entries 91
Mean −0.001425
Std Dev 0.2198

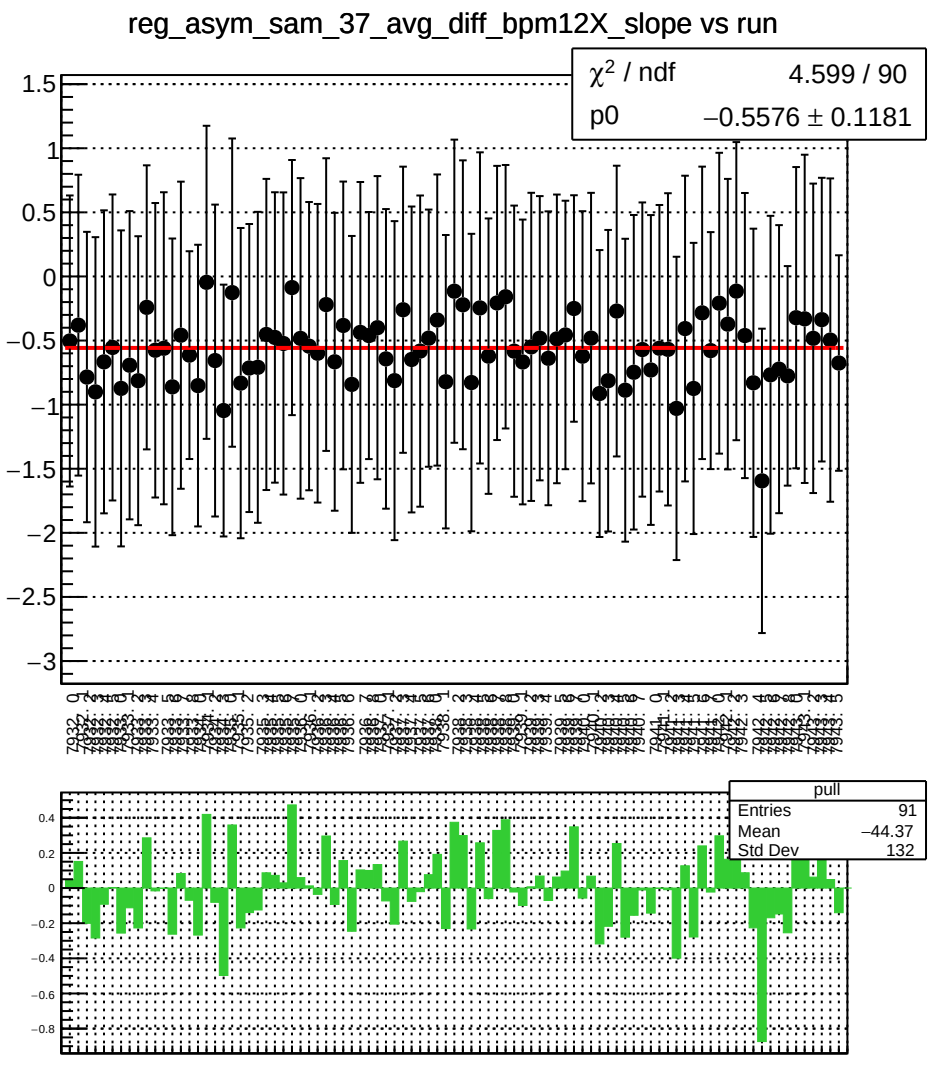

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2.357 / 90
p0 0.8057 ± 0.03761
pull
Entries 91
Mean −344.6
Std Dev 0
pull1D
Entries 91
Mean −0.002979
Std Dev 0.1609

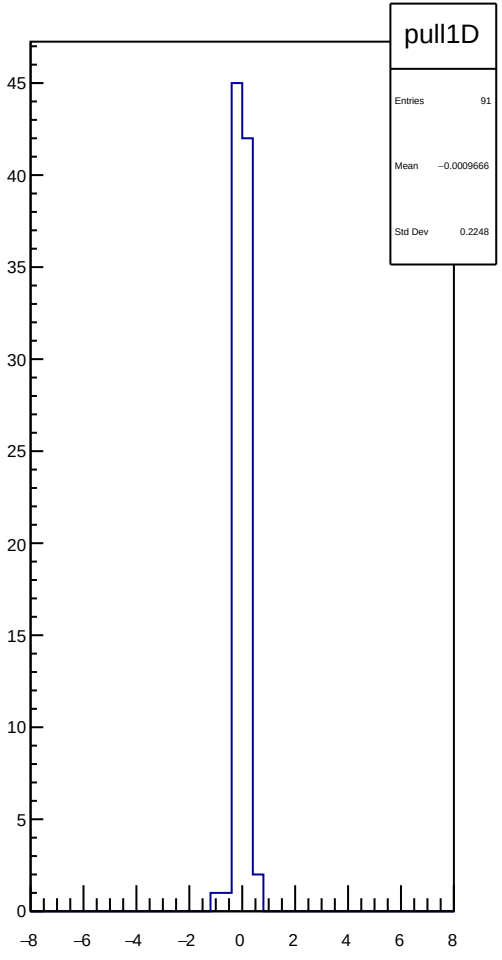

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 4.041 / 90
p0 −56.99 ± 3.508
pull
Entries 91
Mean −91.74
Std Dev 0
pull1D
Entries 91
Mean −0.00675
Std Dev 0.2106

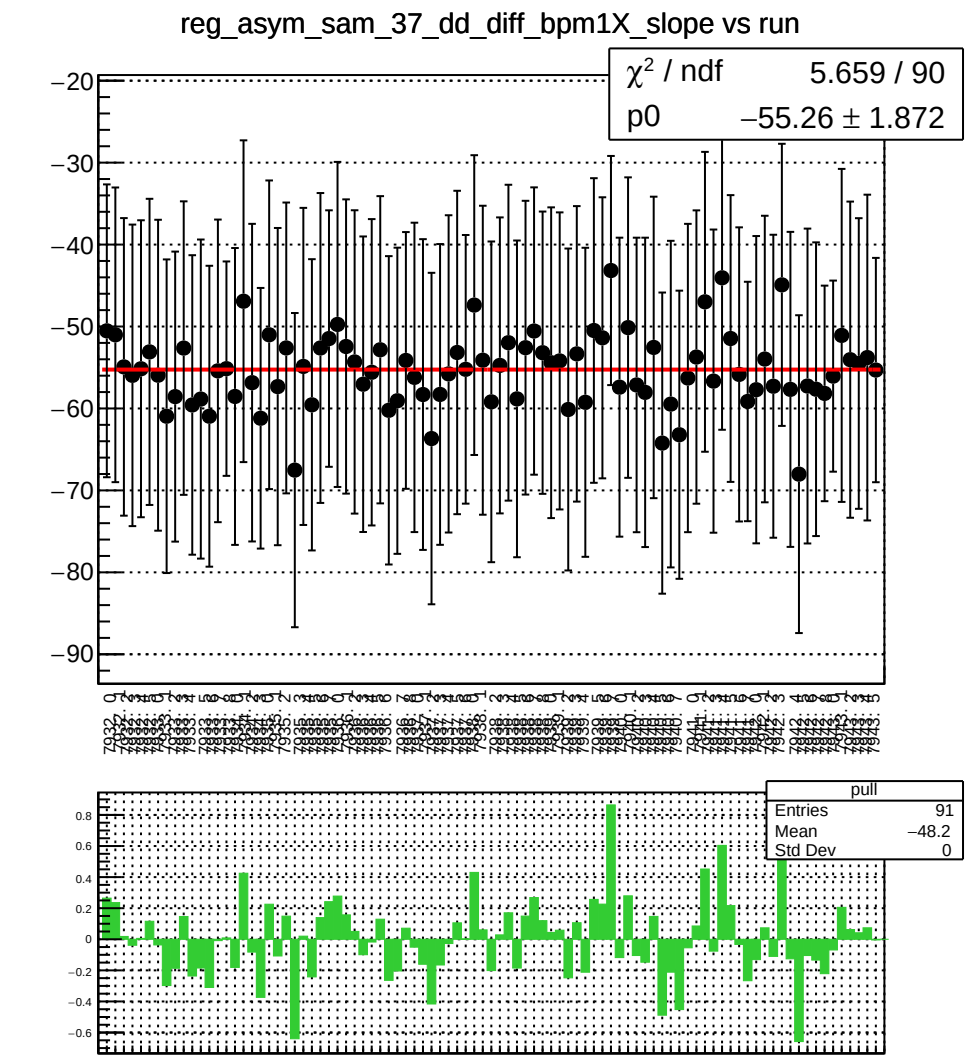

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.38 / 90
p0 10.83 ± 3.654
pull
Entries 91
Mean −834.2
Std Dev 0
pull1D
Entries 91
Mean −0.001139
Std Dev 0.1927

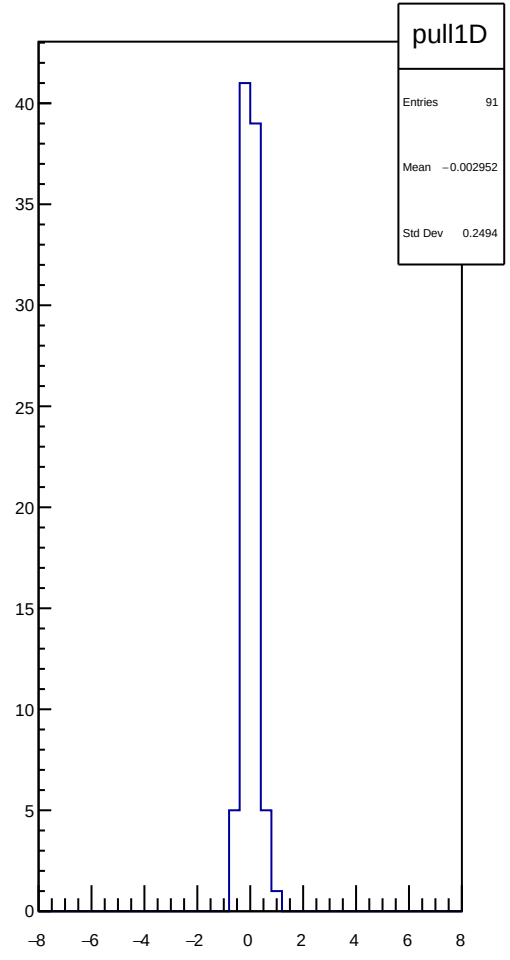

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.579 / 90
p0 −37.27 ± 3.157
pull
Entries 91
Mean 59.5
Std Dev 41.81
pull1D
Entries 91
Mean 0.005488
Std Dev 0.1982

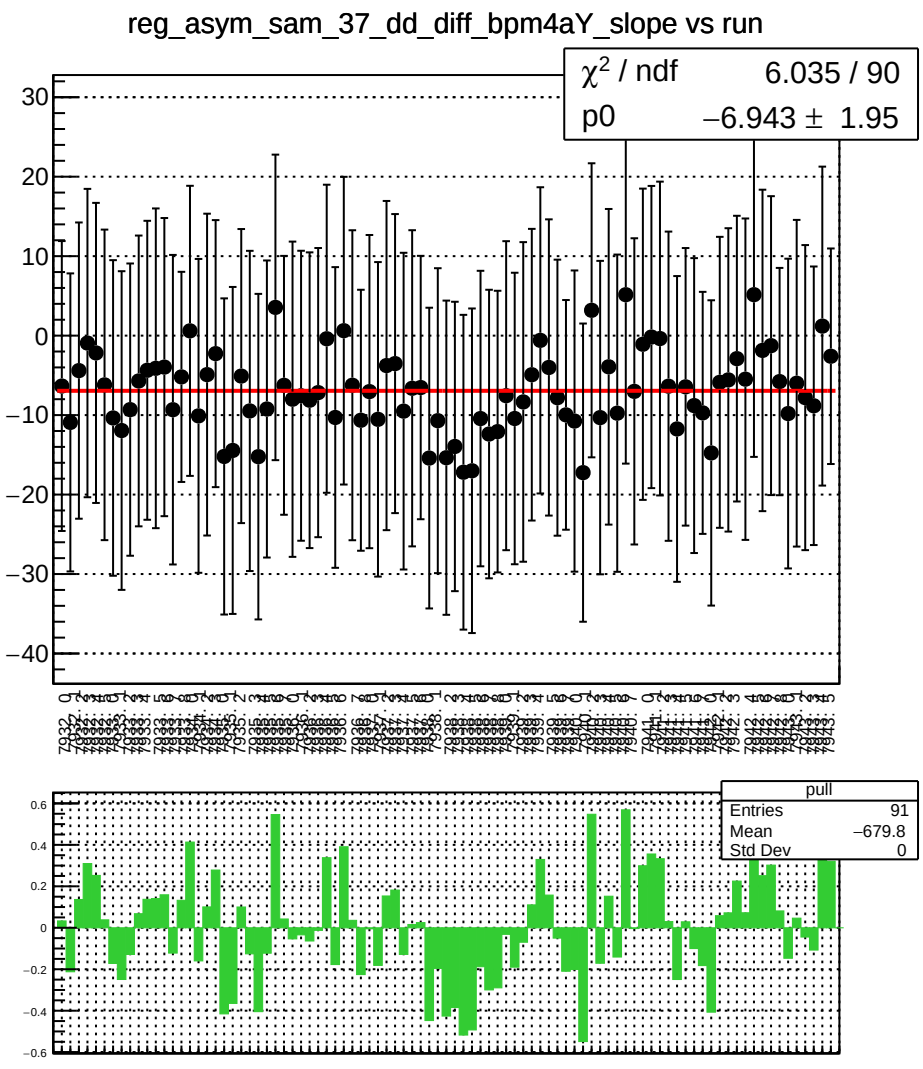

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.466 / 90
p0 −3.036 ± 4.213
pull
Entries 91
Mean −824.7
Std Dev 0
pull1D
Entries 91
Mean 0.001155
Std Dev 0.1952

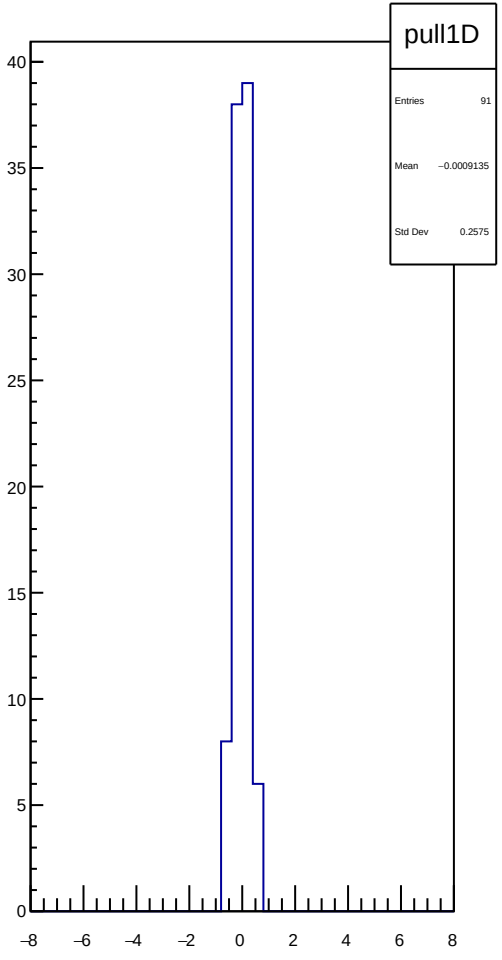

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.599 / 90
p0 −0.5576 ± 0.1181
pull
Entries 91
Mean −44.37
Std Dev 132

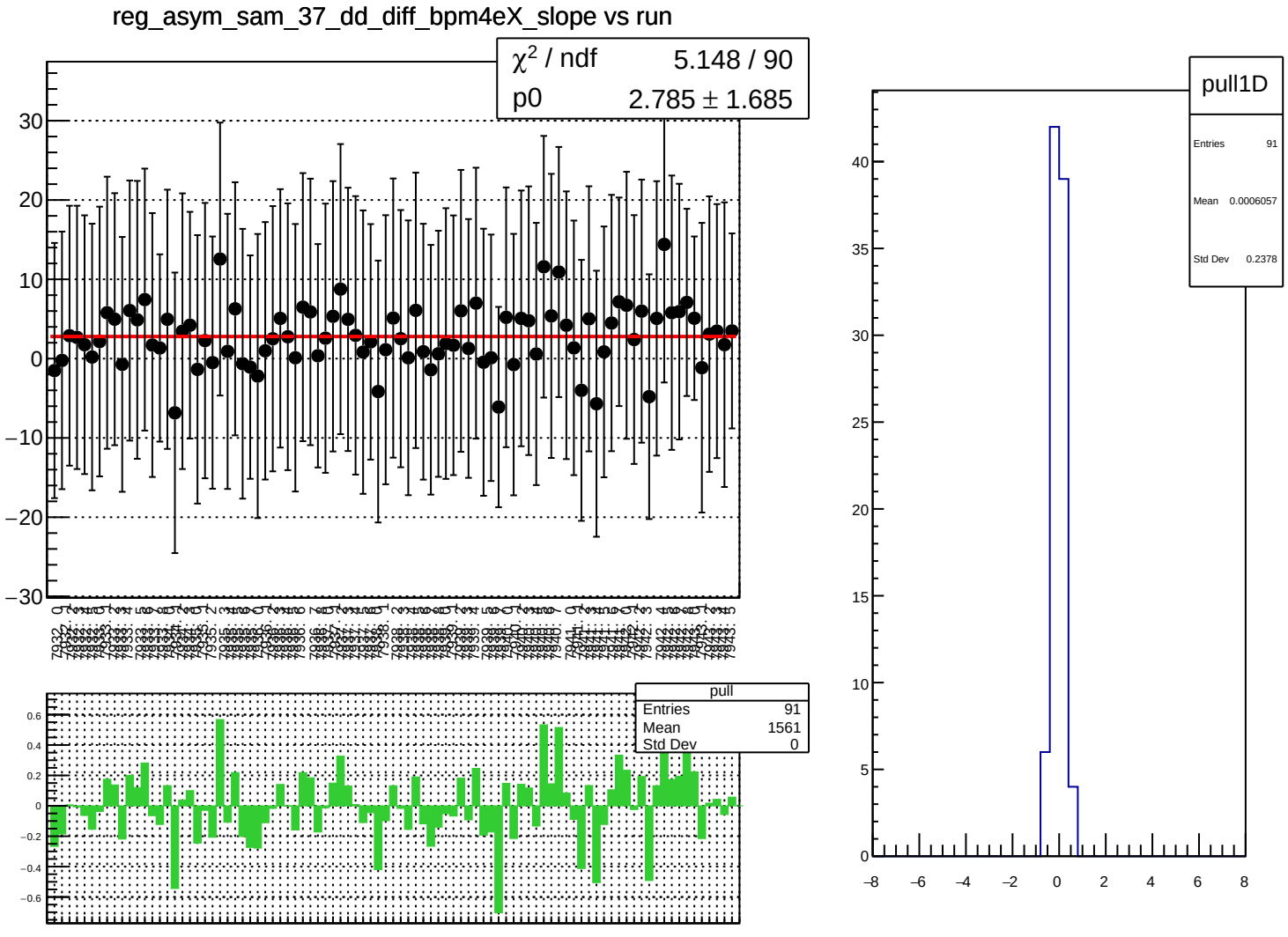

pull1D
Entries 91
Mean −0.0009666
Std Dev 0.2248

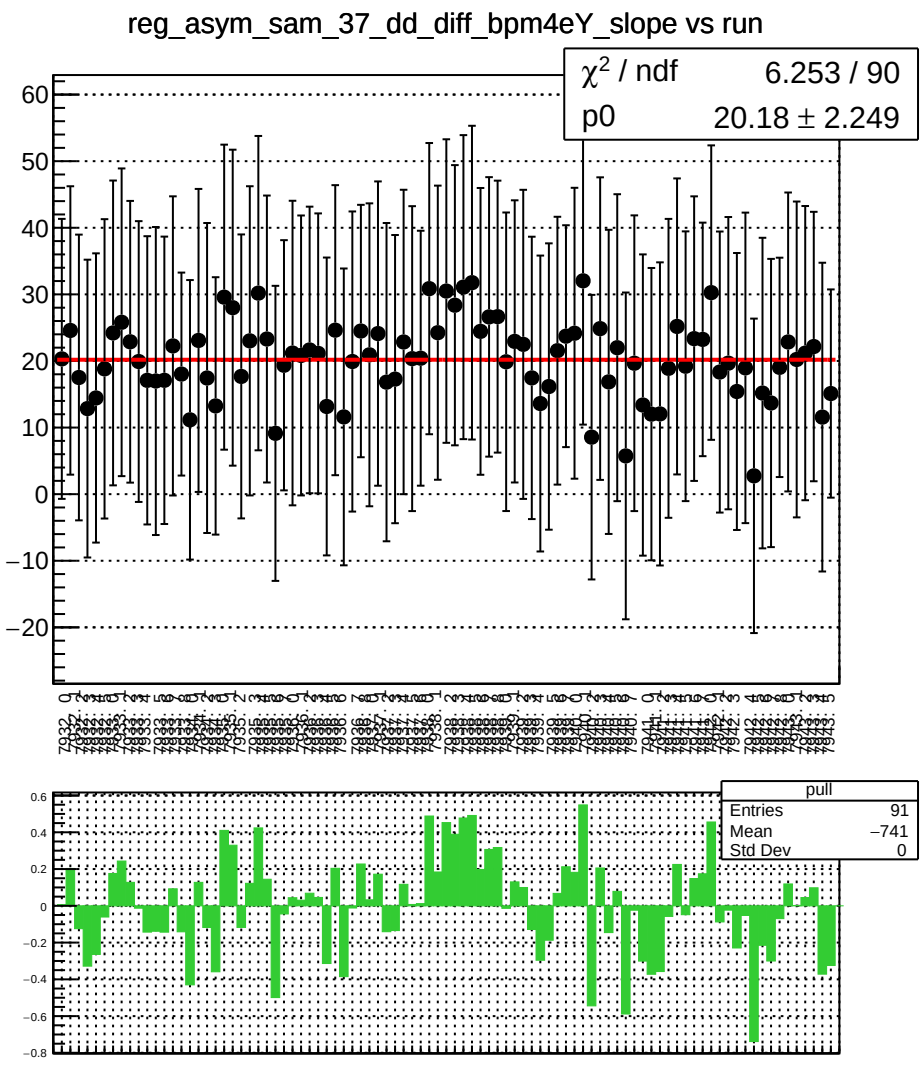

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.659 / 90
p0 −55.26 ± 1.872
pull
Entries 91
Mean −48.2
Std Dev 0

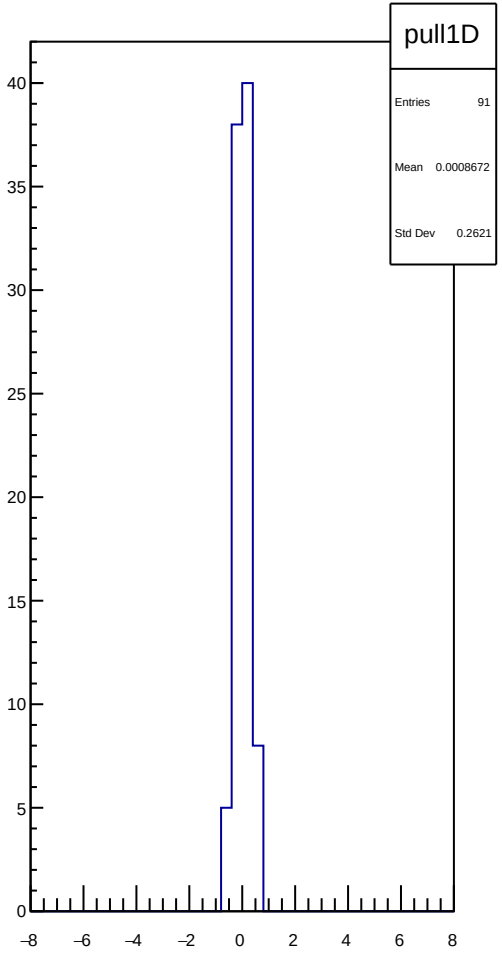

pull1D
Entries 91
Mean −0.002952
Std Dev 0.2494

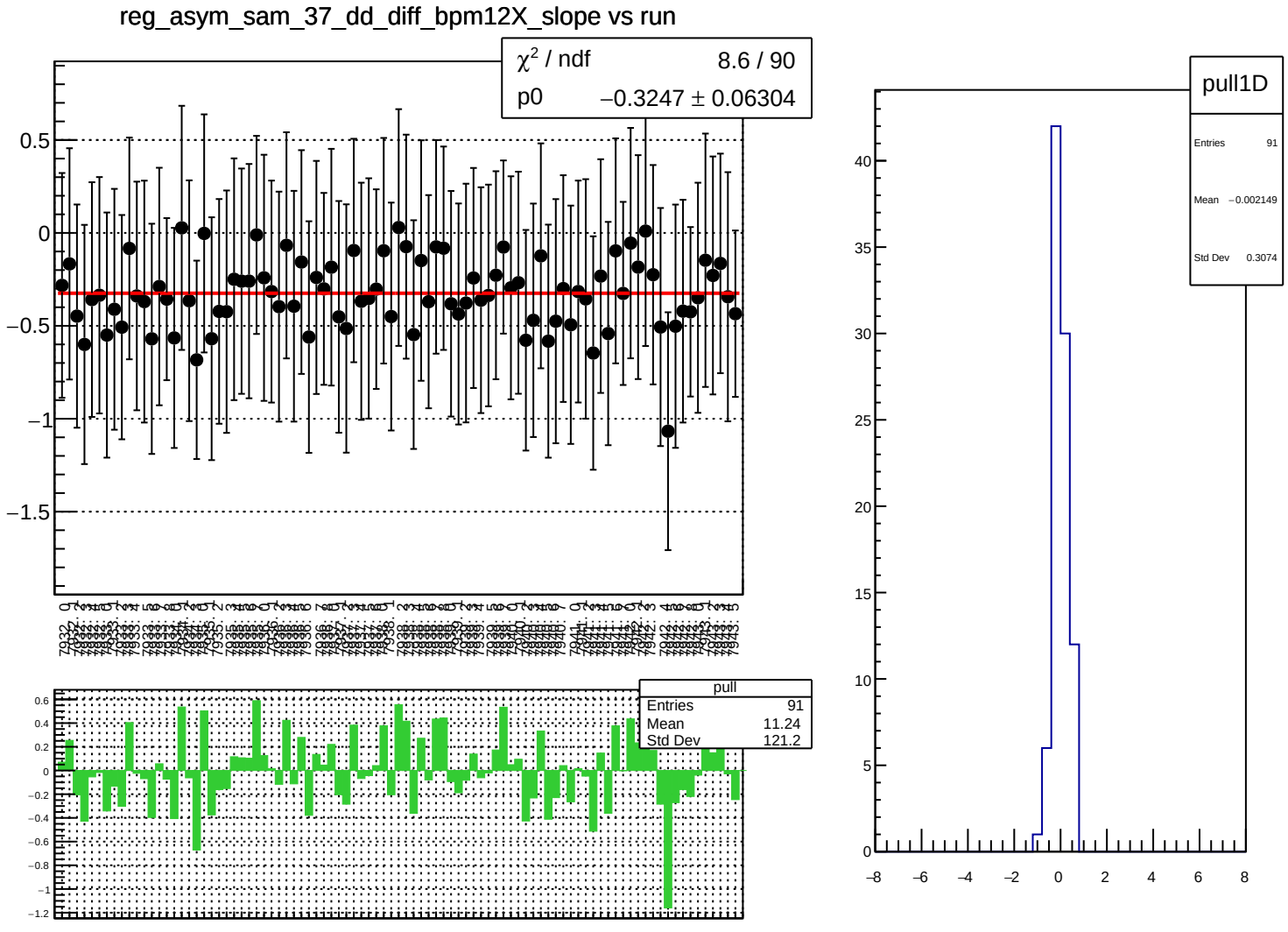

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.035 / 90
p0 −6.943 ± 1.95
pull
Entries 91
Mean −679.8
Std Dev 0

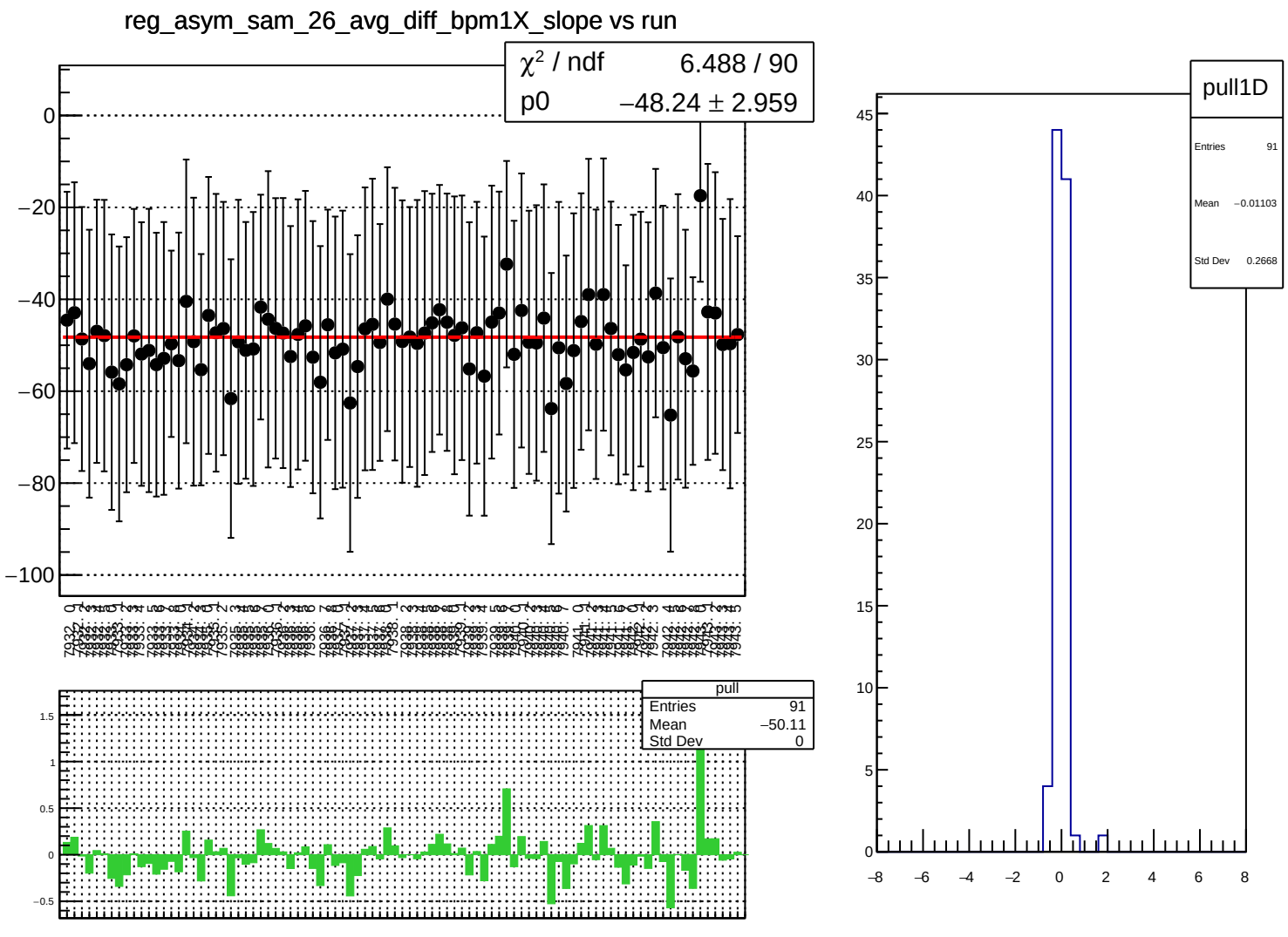

pull1D
Entries 91
Mean −0.0009135
Std Dev 0.2575

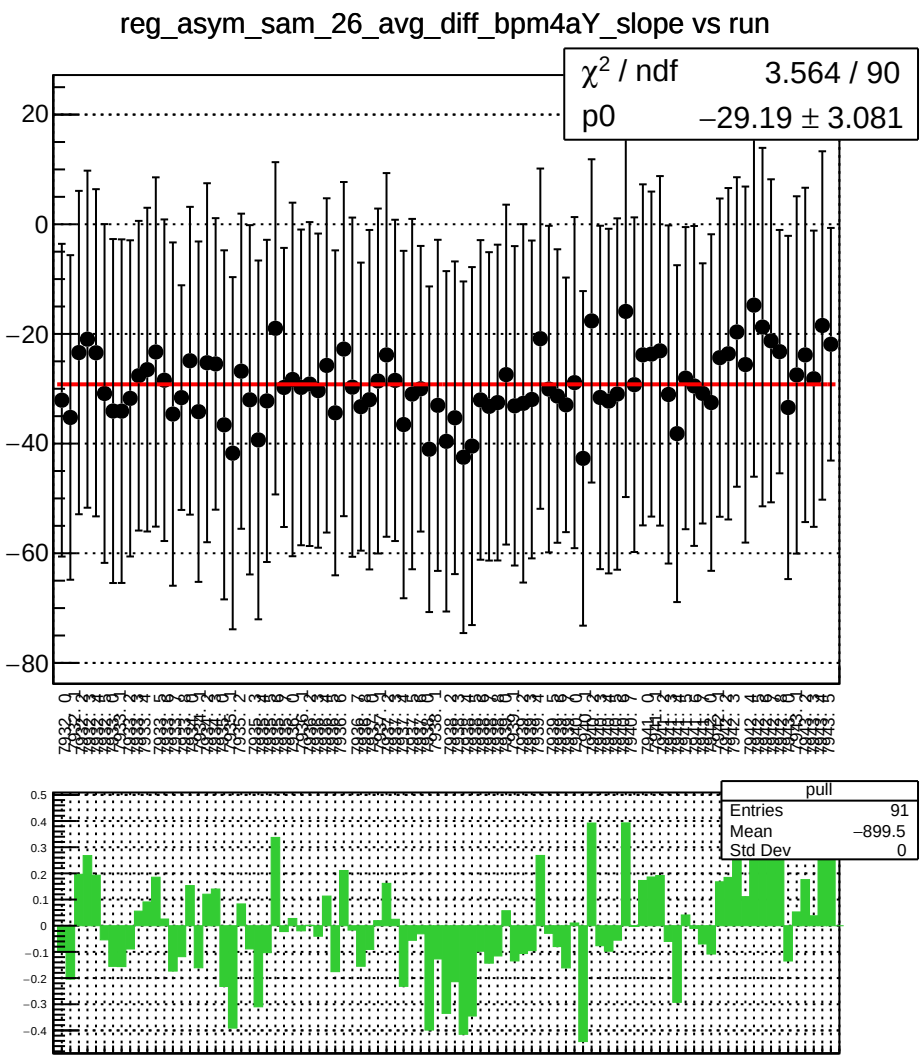

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.148 / 90
p0 2.785 ± 1.685
pull
Entries 91
Mean 1561
Std Dev 0
pull1D
Entries 91
Mean 0.0006057
Std Dev 0.2378

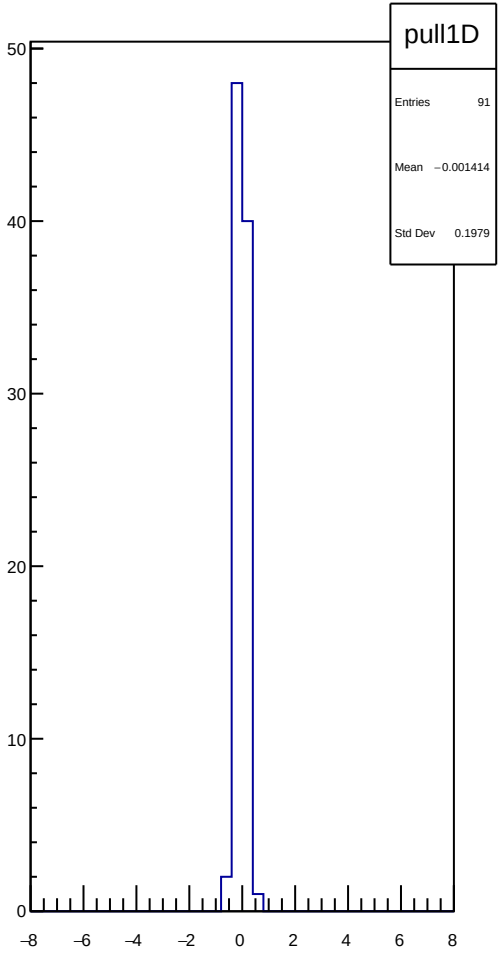

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.253 / 90
p0 20.18 ± 2.249
pull
Entries 91
Mean −741
Std Dev 0

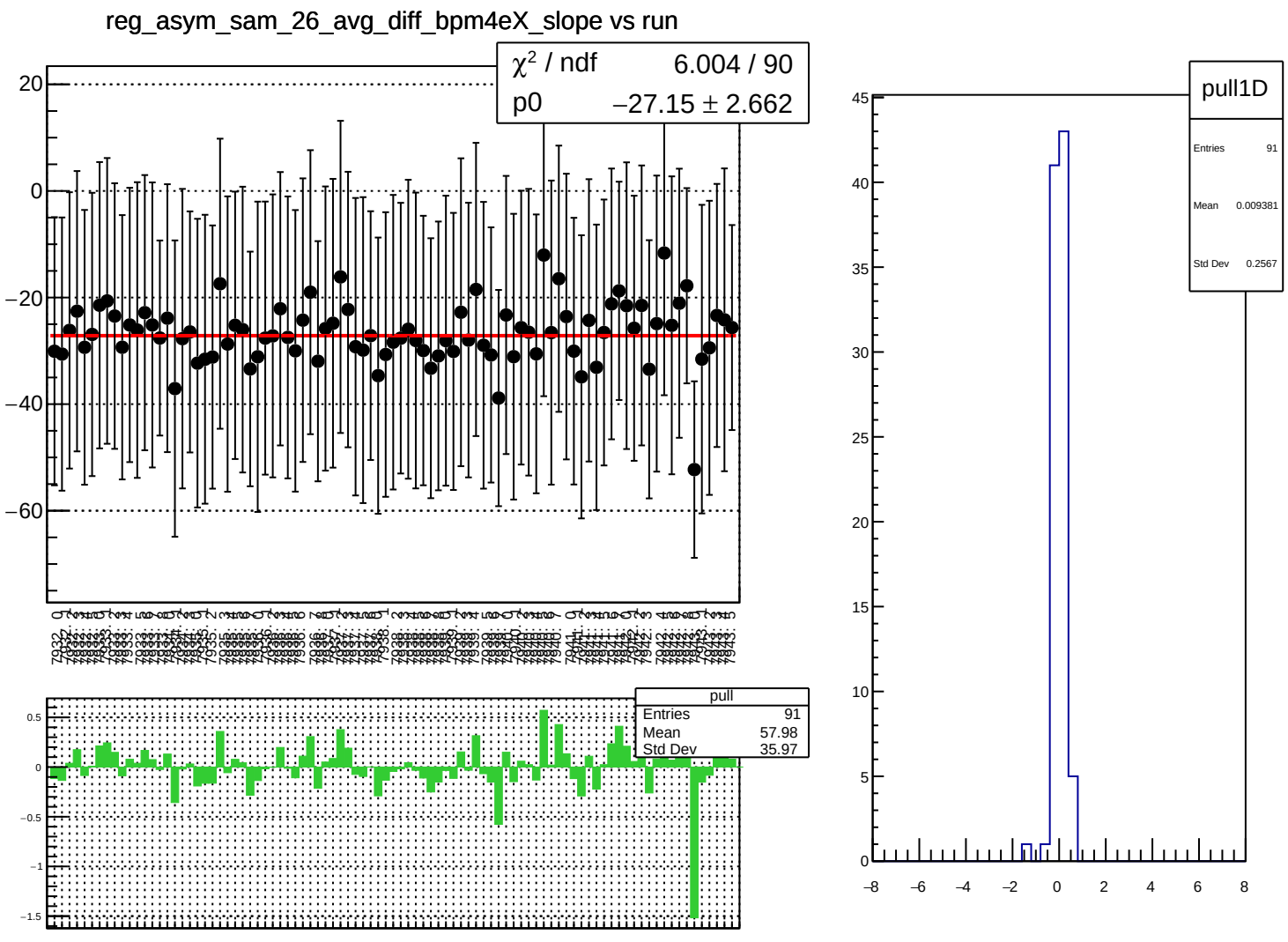

pull1D
Entries 91
Mean 0.0008672
Std Dev 0.2621

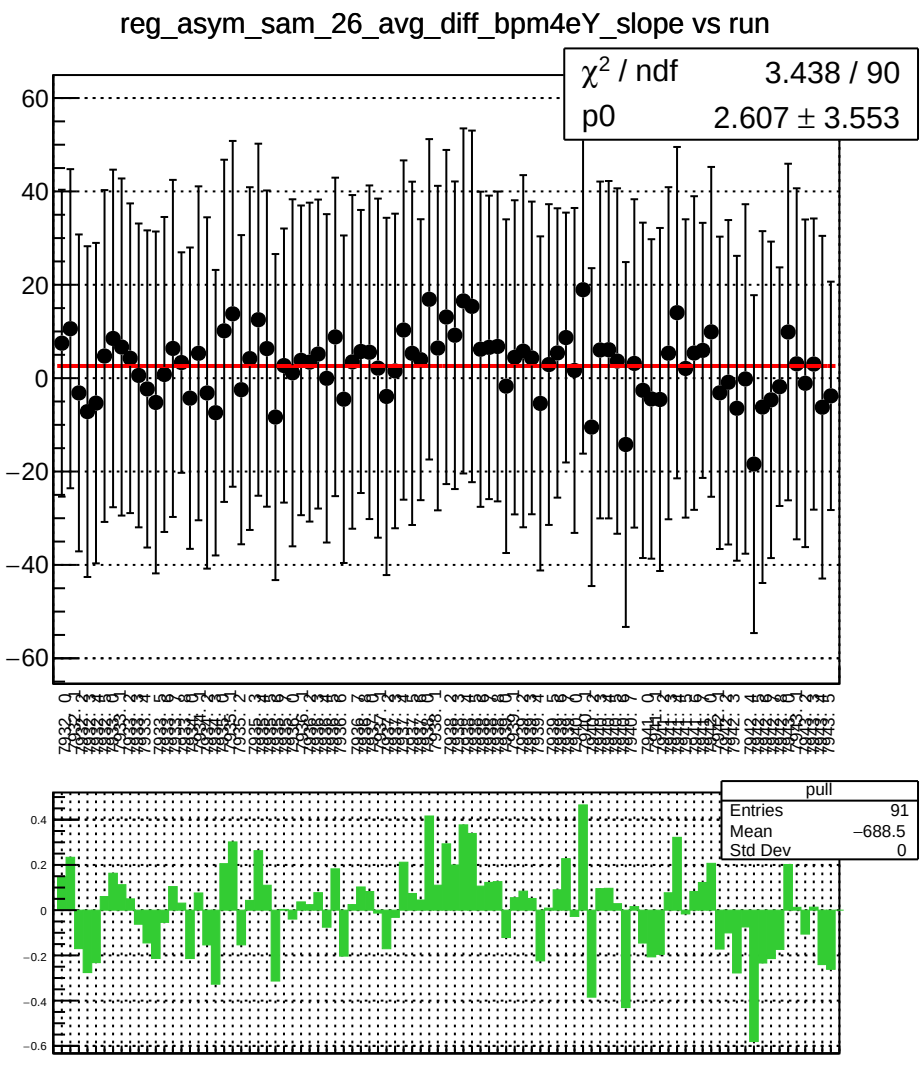

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.6 / 90
p0 −0.3247 ± 0.06304
pull
Entries 91
Mean 11.24
Std Dev 121.2
pull1D
Entries 91
Mean −0.002149
Std Dev 0.3074

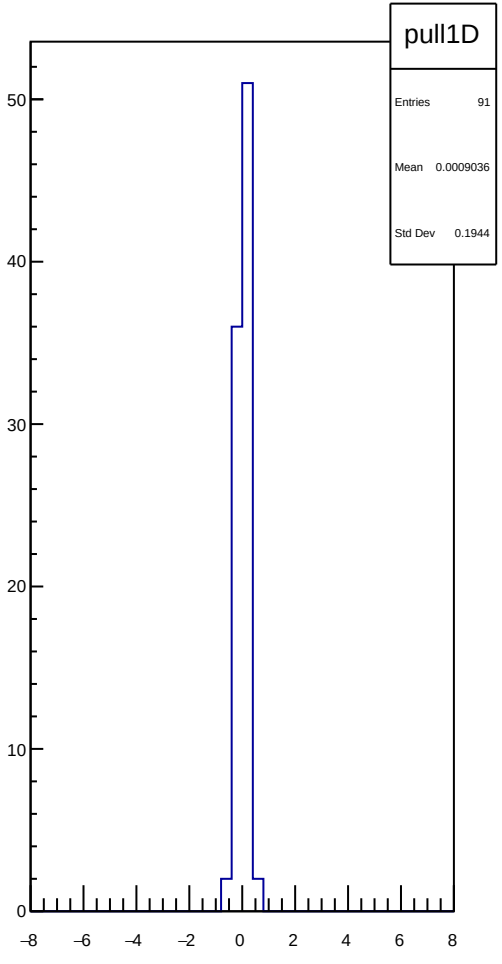

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 6.488 / 90
p0 −48.24 ± 2.959
pull
Entries 91
Mean −50.11
Std Dev 0
pull1D
Entries 91
Mean −0.01103
Std Dev 0.2668

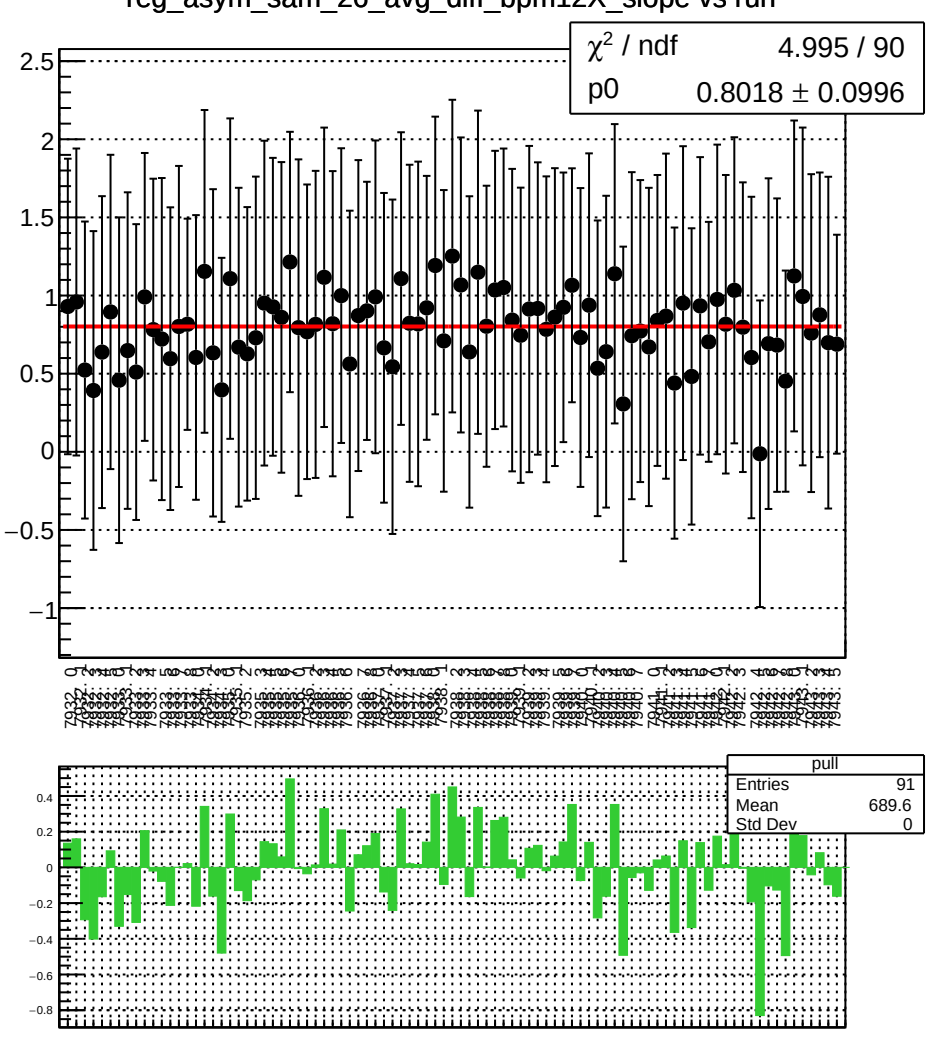

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.564 / 90
p0 −29.19 ± 3.081
pull
Entries 91
Mean −899.5
Std Dev 0

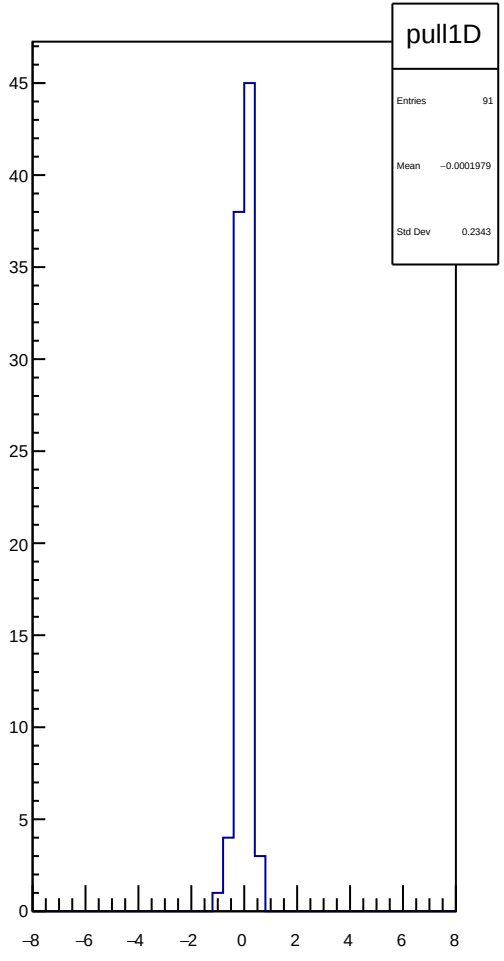

pull1D
Entries 91
Mean −0.001414
Std Dev 0.1979

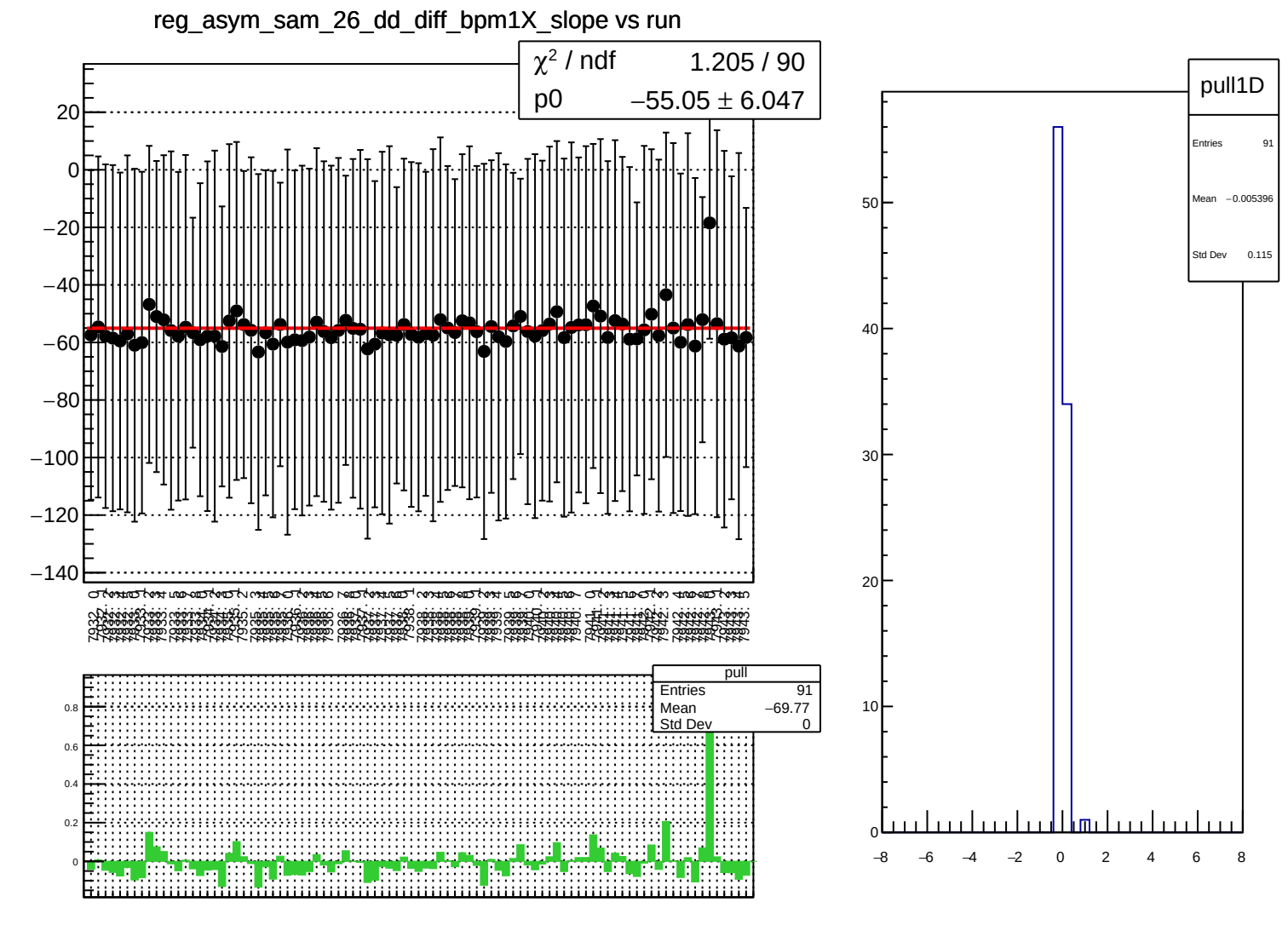

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.004 / 90
p0 −27.15 ± 2.662
pull
Entries 91
Mean 57.98
Std Dev 35.97
pull1D
Entries 91
Mean 0.009381
Std Dev 0.2567

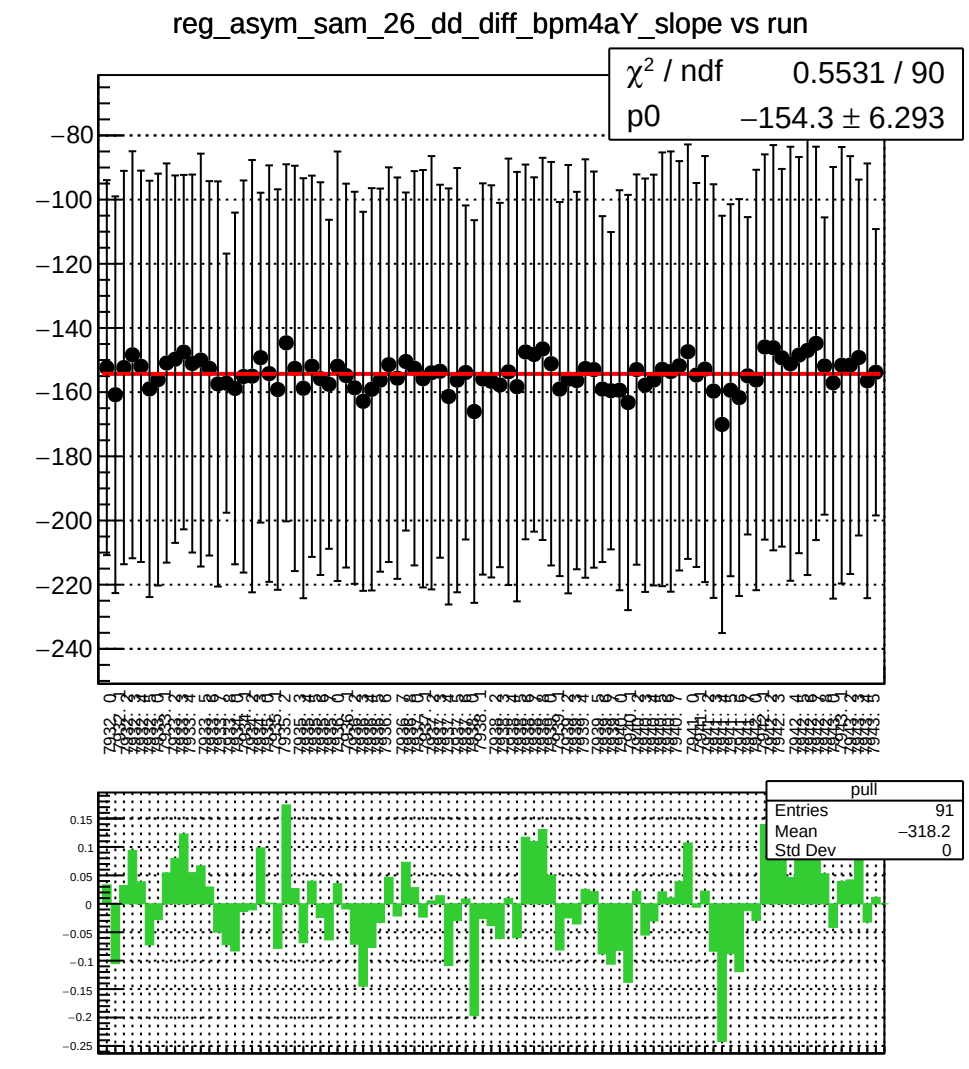

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.438 / 90
p0 2.607 ± 3.553
pull
Entries 91
Mean −688.5
Std Dev 0

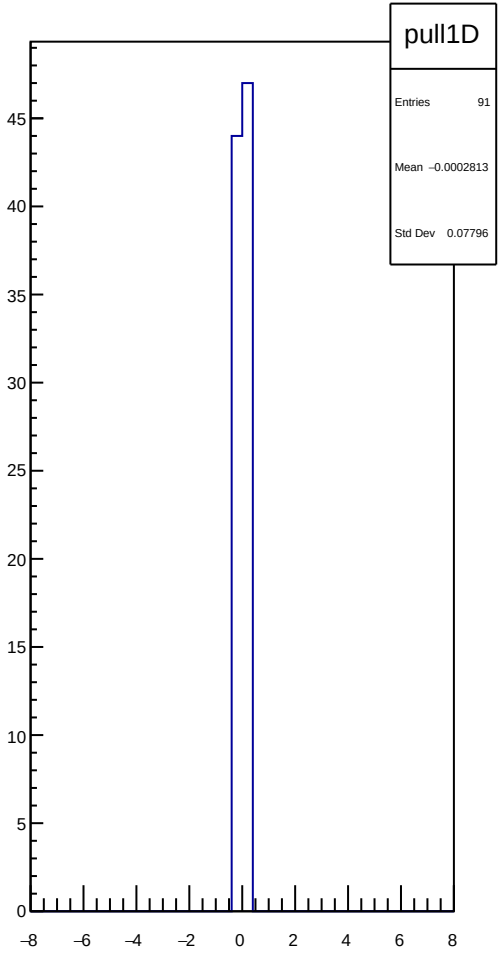

pull1D
Entries 91
Mean 0.0009036
Std Dev 0.1944

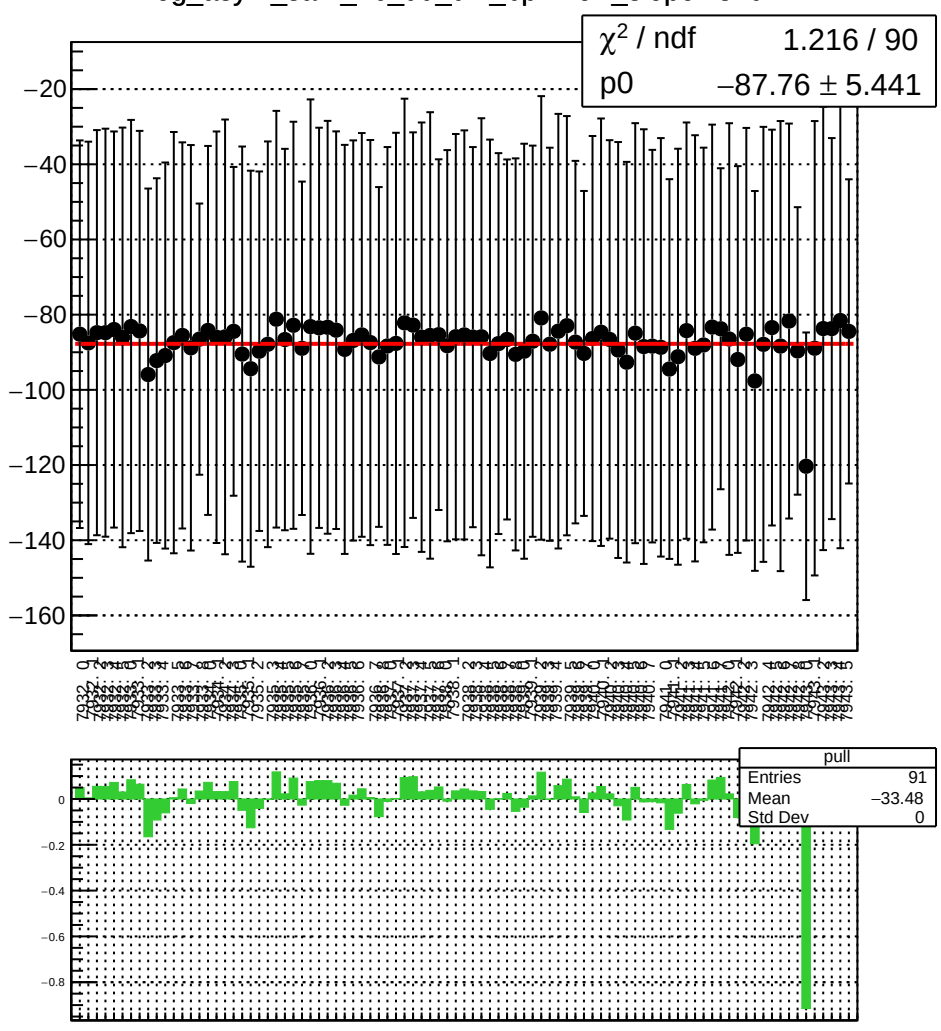

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.995 / 90
p0 0.8018 ± 0.0996
pull
Entries 91
Mean 689.6
Std Dev 0

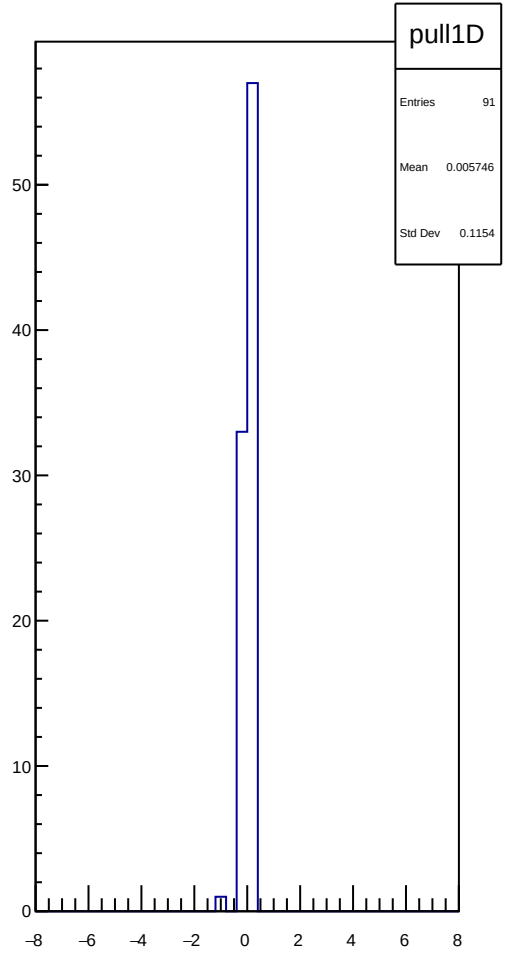

pull1D
Entries 91
Mean −0.0001979
Std Dev 0.2343

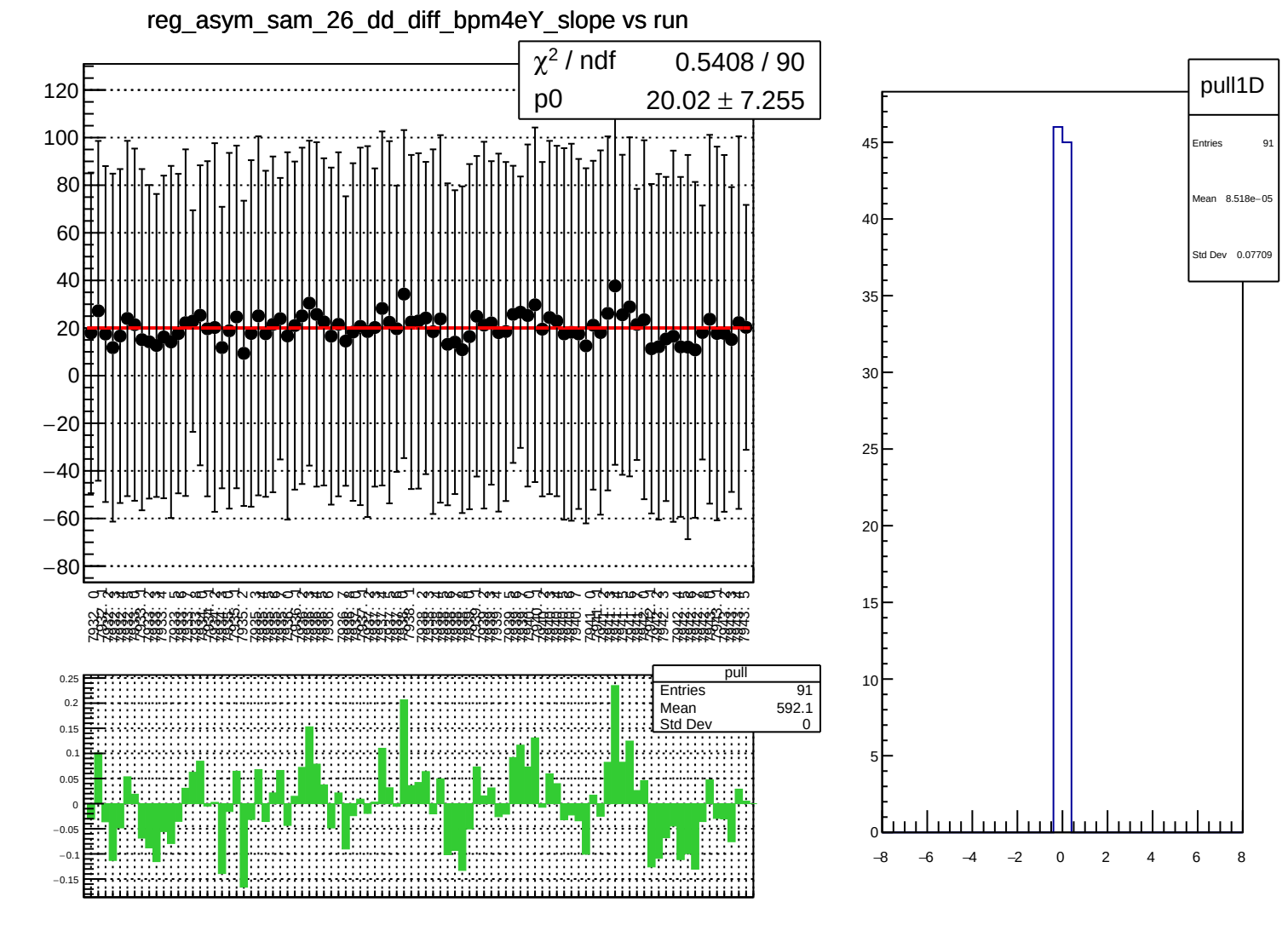

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.205 / 90
p0 −55.05 ± 6.047
pull
Entries 91
Mean −69.77
Std Dev 0
pull1D
Entries 91
Mean −0.005396
Std Dev 0.115

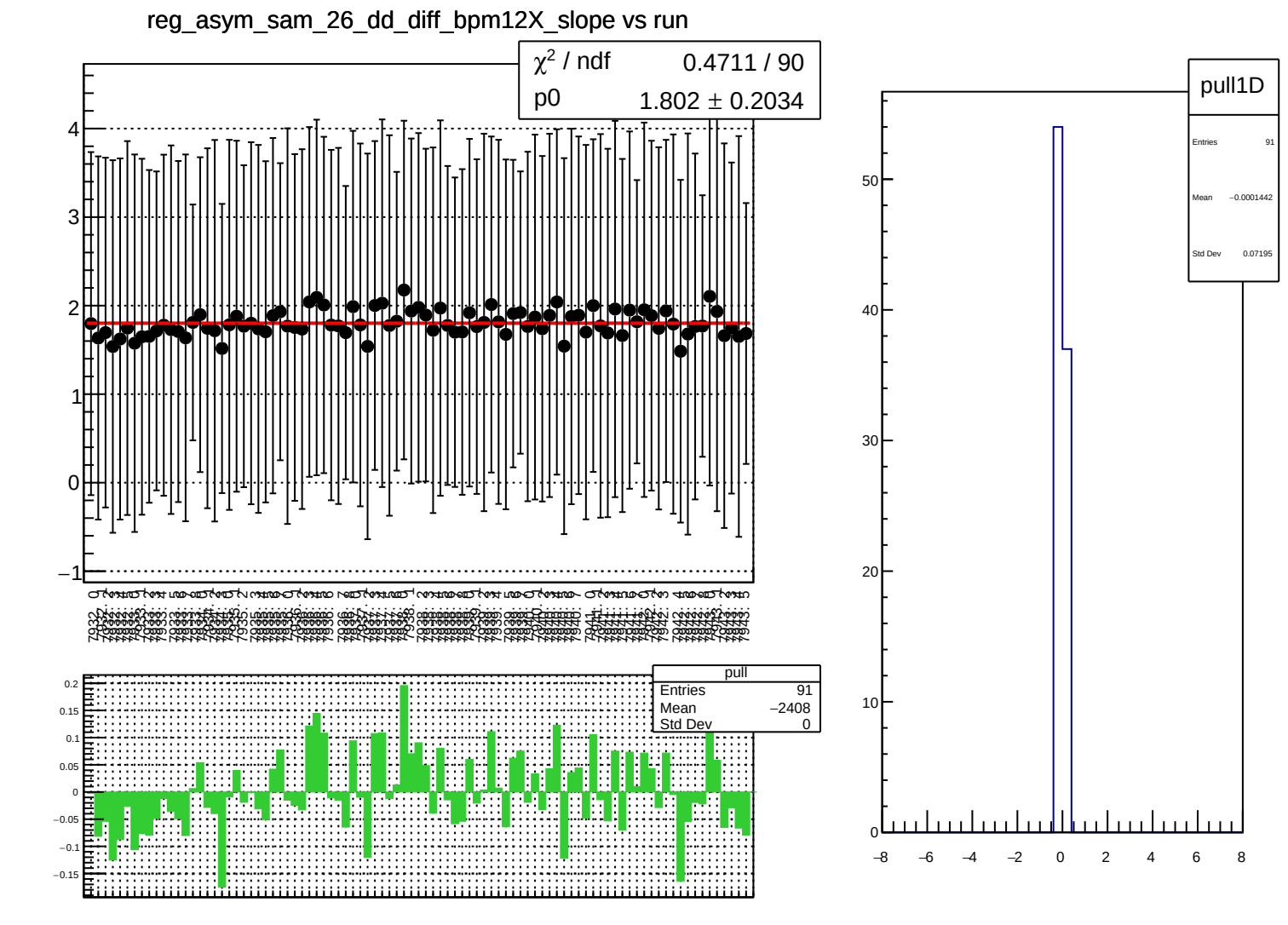

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5531 / 90
p0 −154.3 ± 6.293
pull
Entries 91
Mean −318.2
Std Dev 0

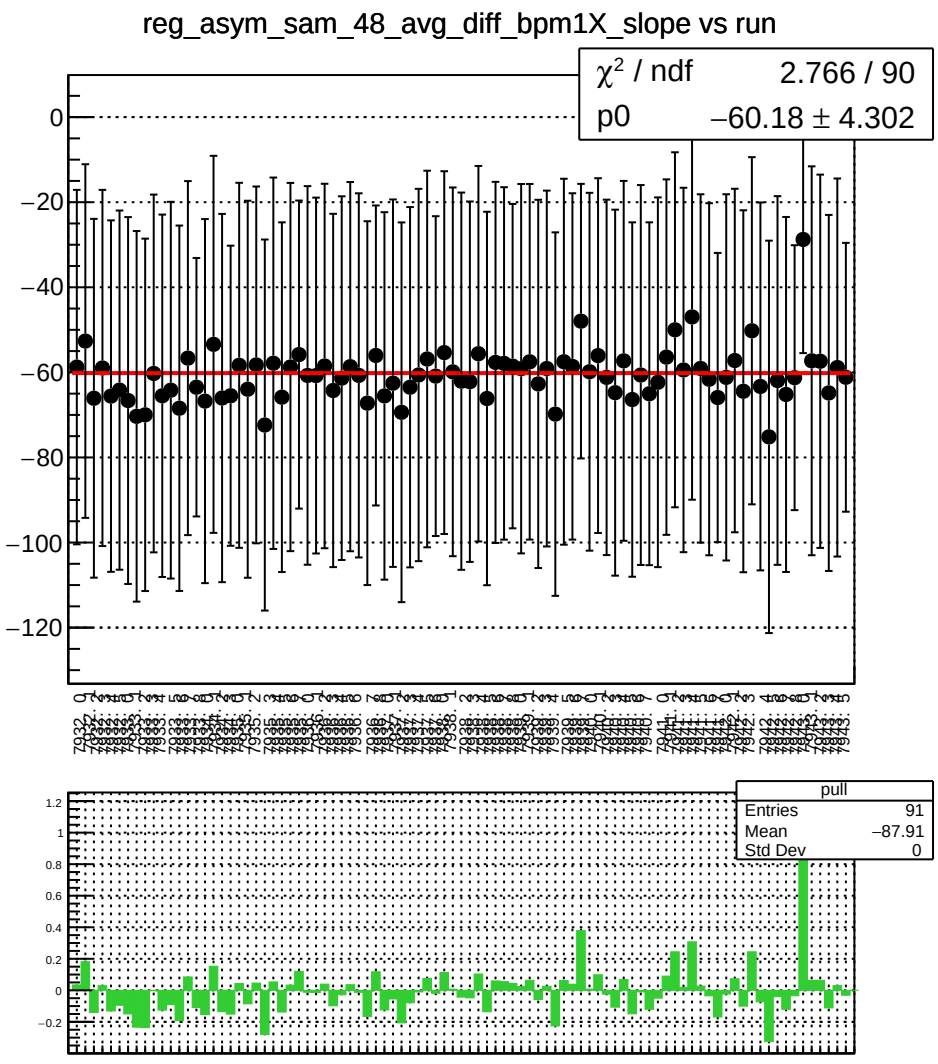

pull1D
Entries 91
Mean −0.0002813
Std Dev 0.07796

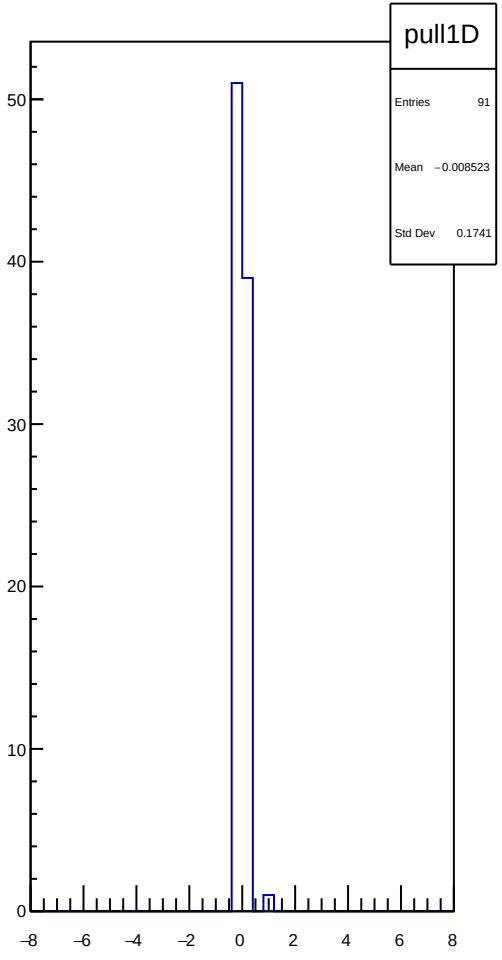

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.216 / 90
p0 −87.76 ± 5.441
pull
Entries 91
Mean −33.48
Std Dev 0

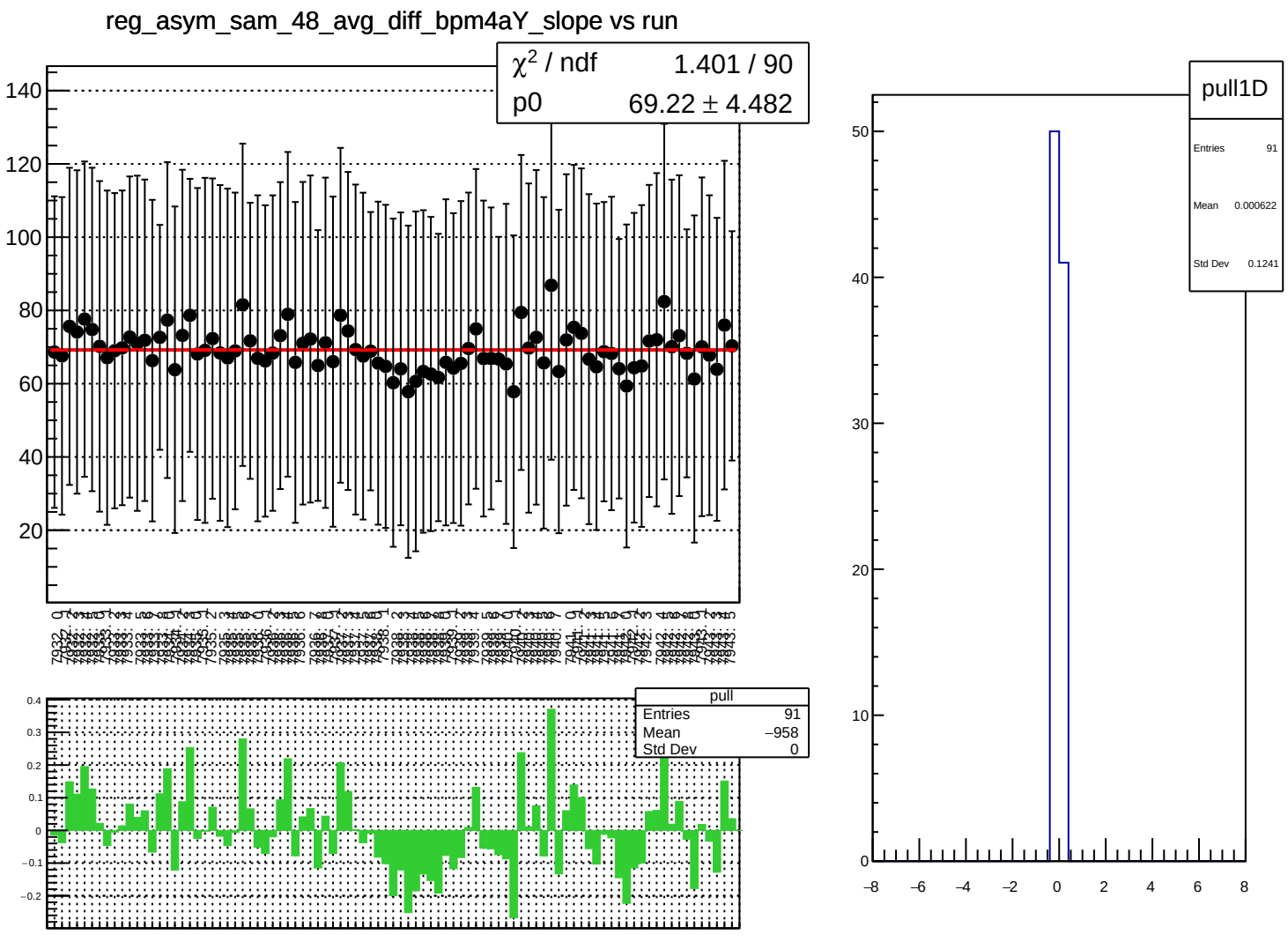

pull1D
Entries 91
Mean 0.005746
Std Dev 0.1154

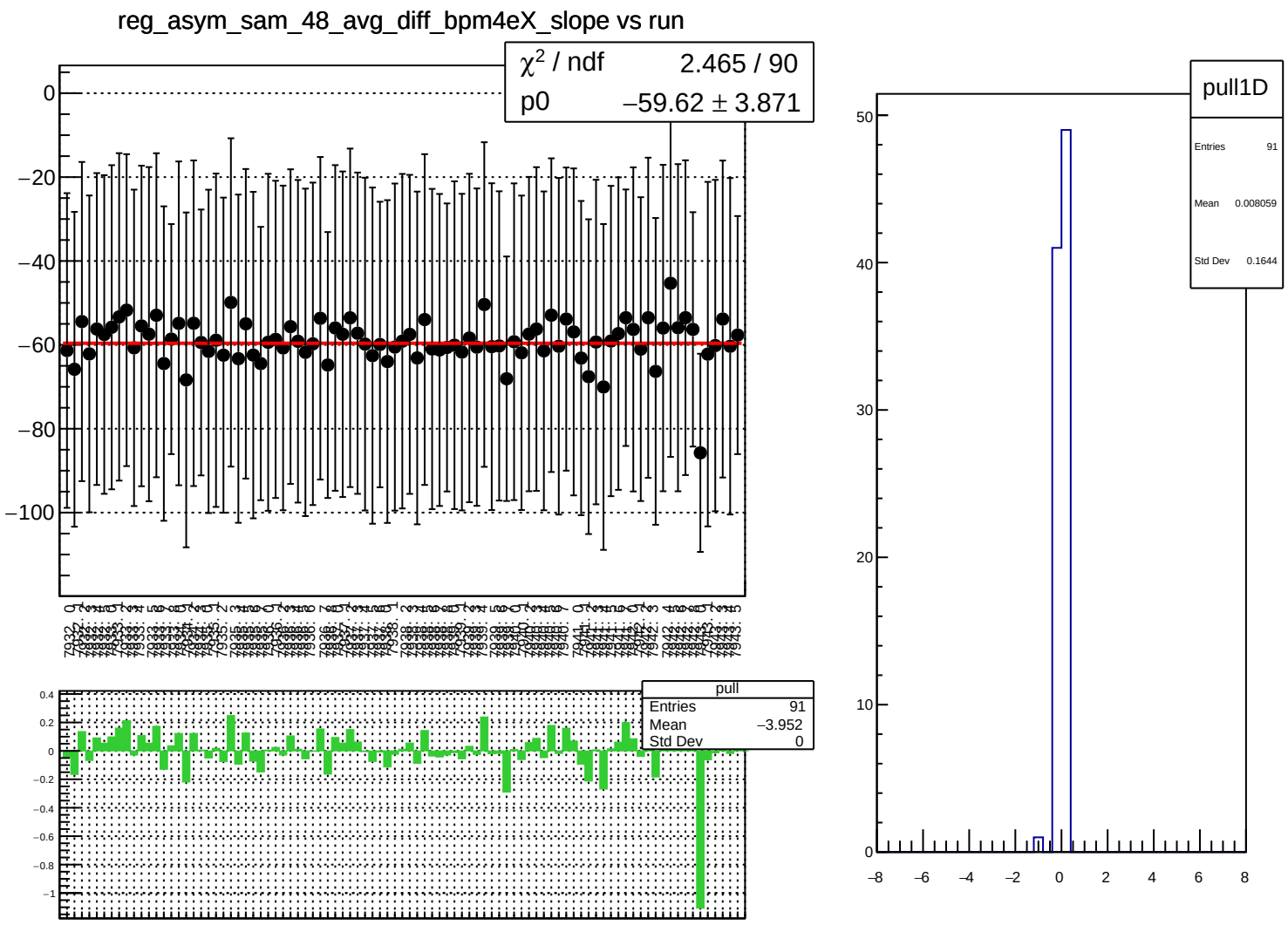

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 0.5408 / 90
p0 20.02 ± 7.255
pull
Entries 91
Mean 592.1
Std Dev 0
pull1D
Entries 91
Mean 8.518e−05
Std Dev 0.07709

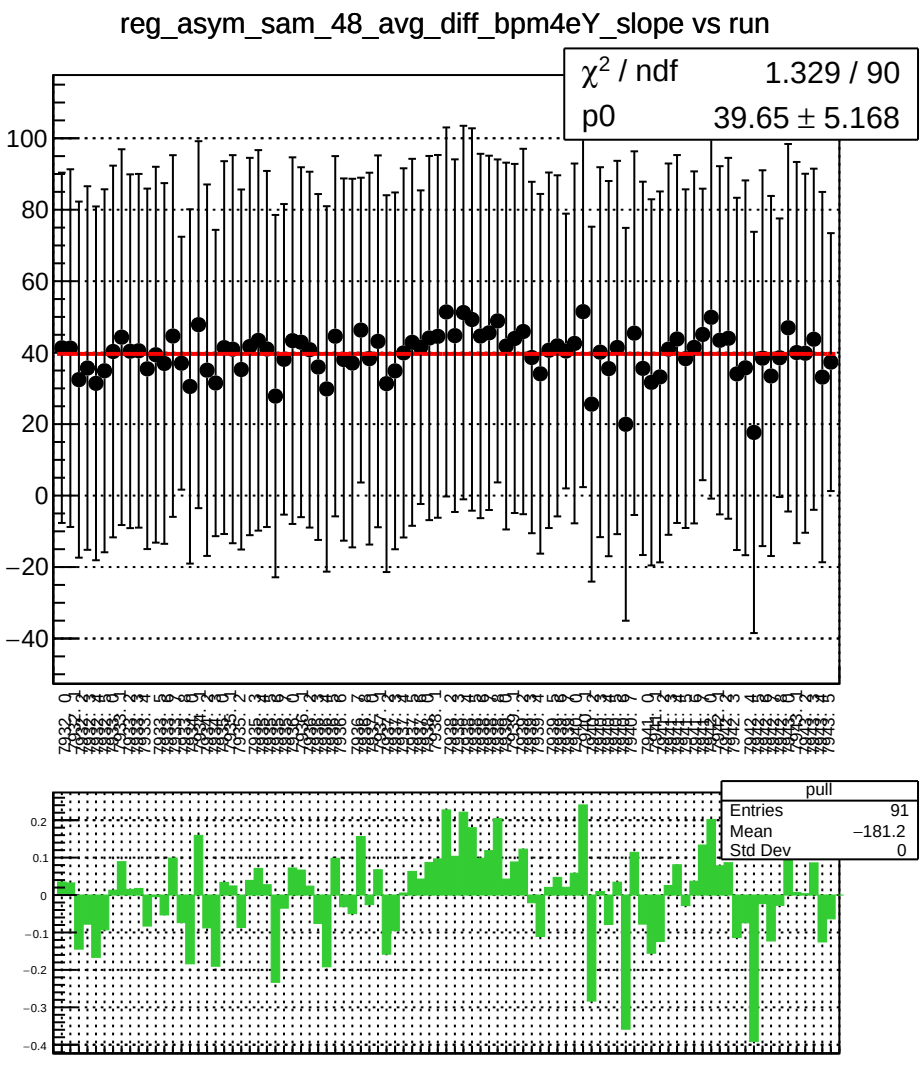

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4711 / 90
p0 1.802 ± 0.2034
pull
Entries 91
Mean −2408
Std Dev 0
pull1D
Entries 91
Mean −0.0001442
Std Dev 0.07195

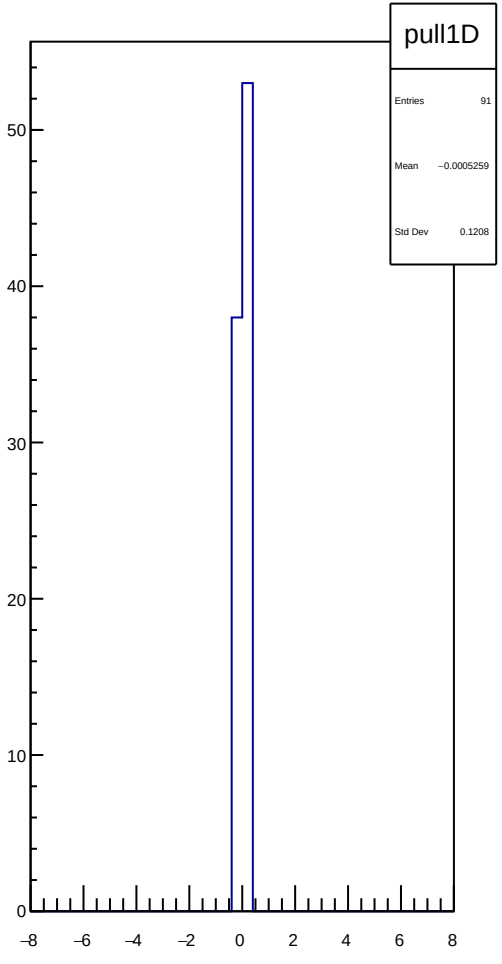

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 2.766 / 90
p0 −60.18 ± 4.302
pull
Entries 91
Mean −87.91
Std Dev 0

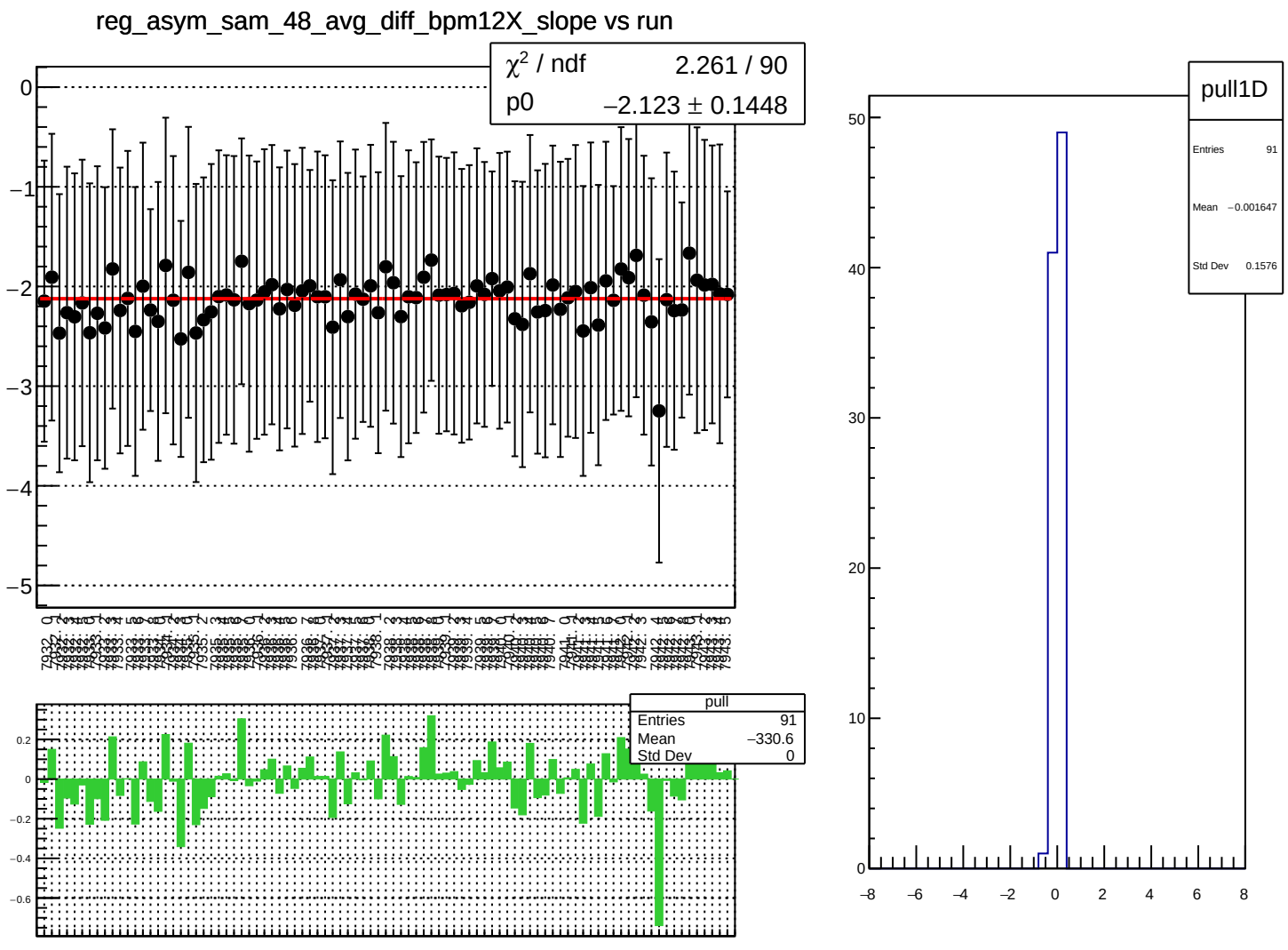

pull1D
Entries 91
Mean −0.008523
Std Dev 0.1741

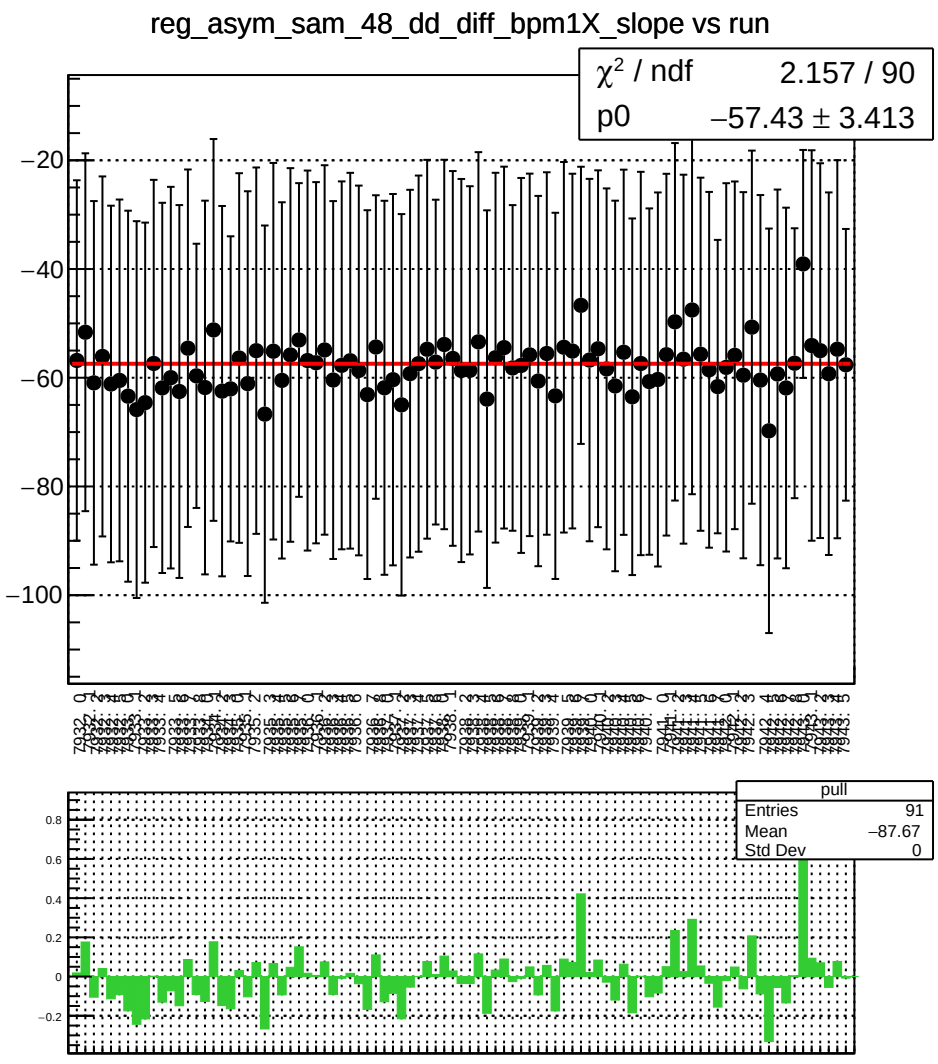

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.401 / 90
p0 69.22 ± 4.482
pull
Entries 91
Mean −958
Std Dev 0
pull1D
Entries 91
Mean 0.000622
Std Dev 0.1241

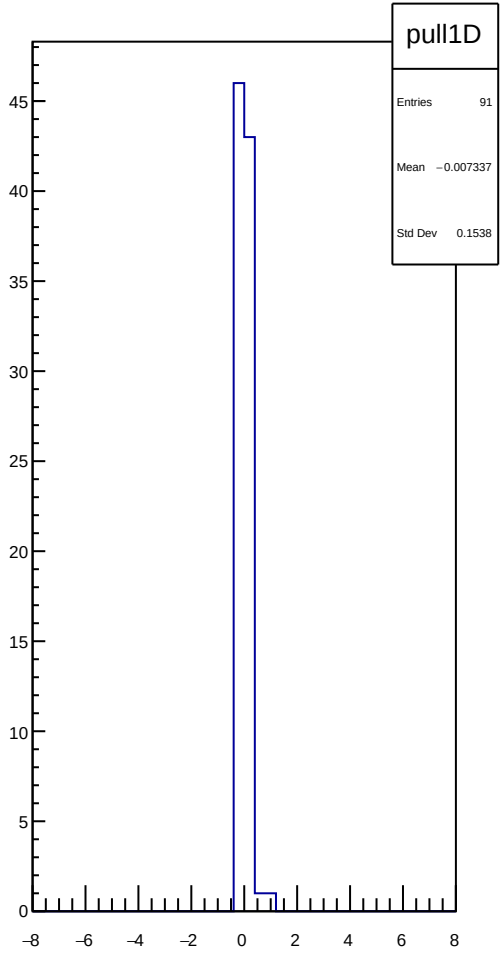

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.465 / 90
p0 −59.62 ± 3.871
pull
Entries 91
Mean −3.952
Std Dev 0
pull1D
Entries 91
Mean 0.008059
Std Dev 0.1644

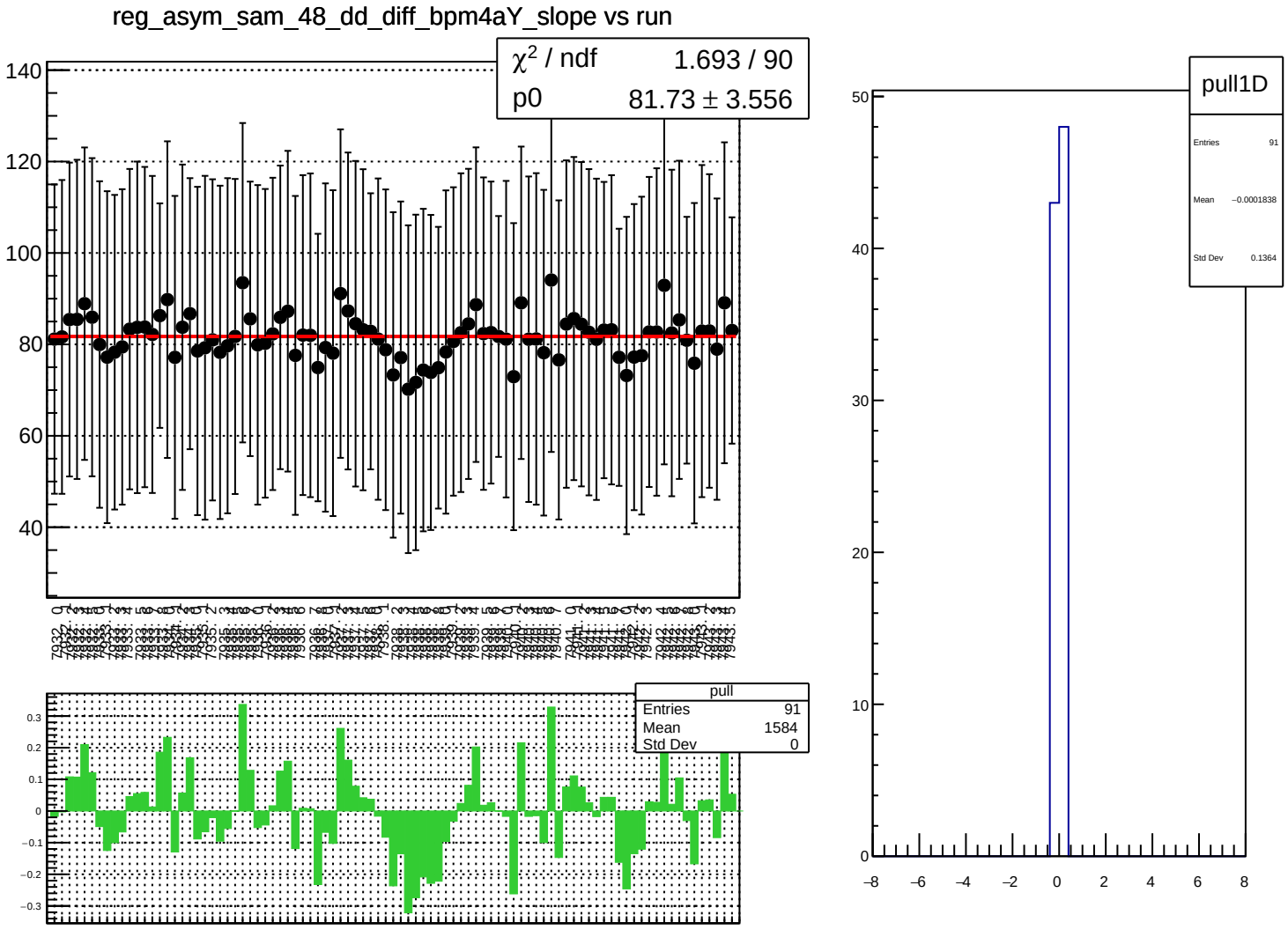

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.329 / 90
p0 39.65 ± 5.168
pull
Entries 91
Mean −181.2
Std Dev 0

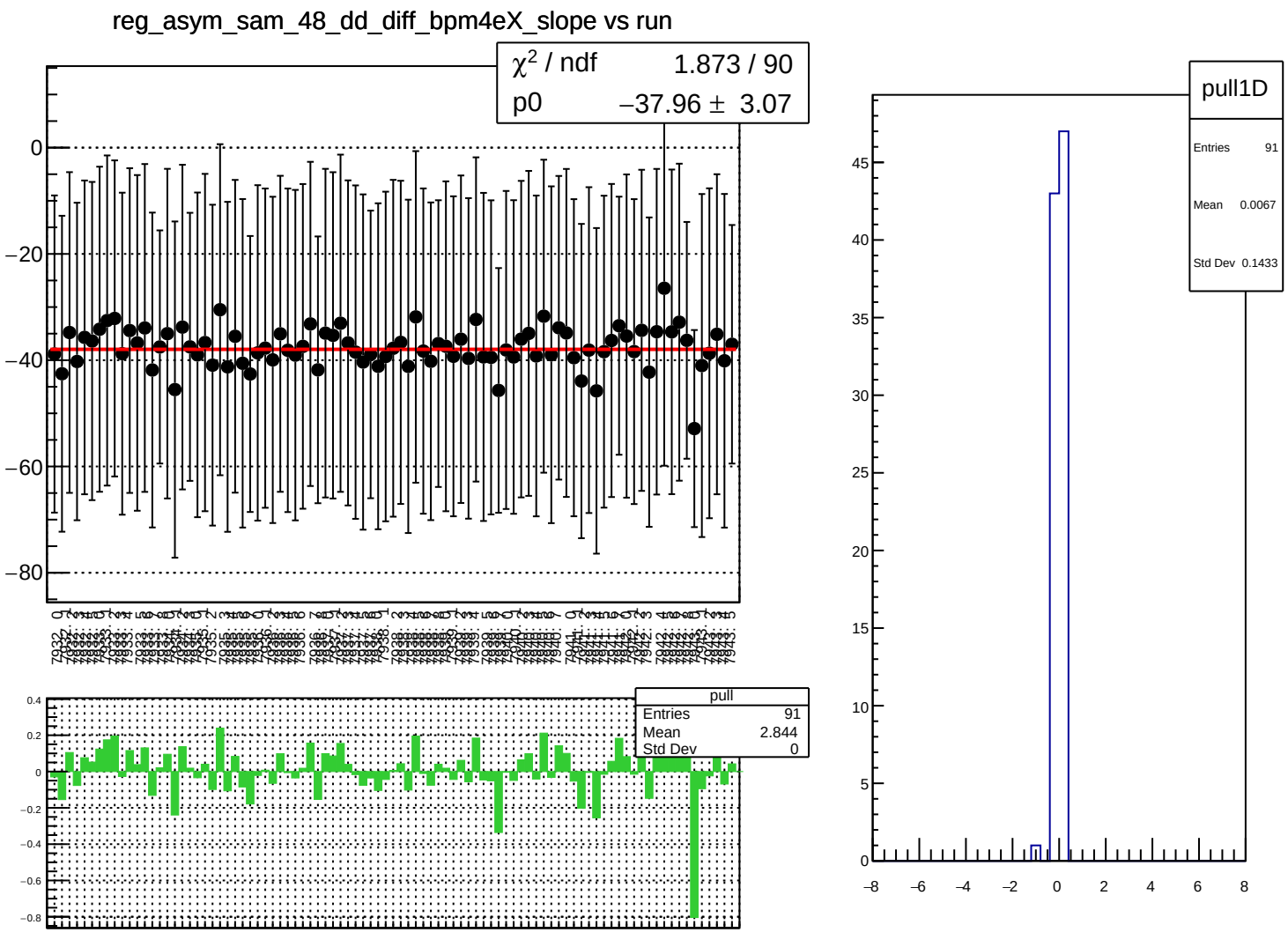

pull1D
Entries 91
Mean −0.0005259
Std Dev 0.1208

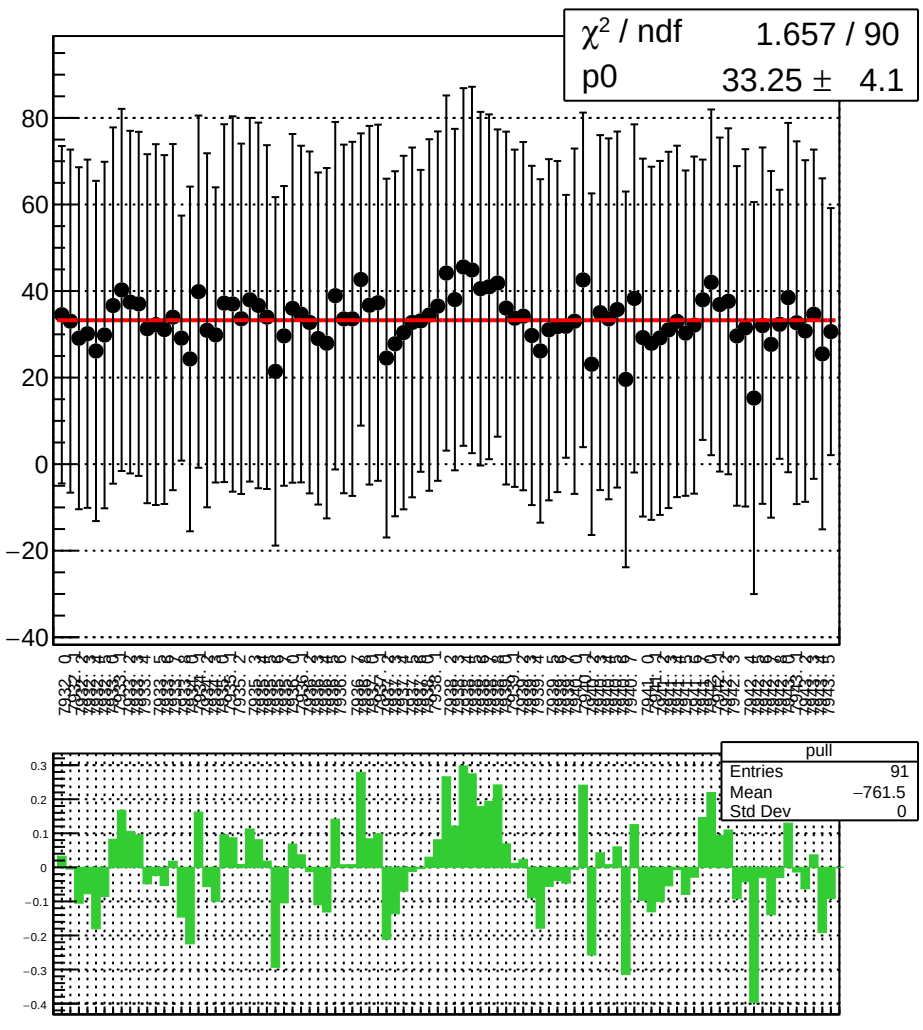

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.261 / 90
p0 −2.123 ± 0.1448
pull
Entries 91
Mean −330.6
Std Dev 0
pull1D
Entries 91
Mean −0.001647
Std Dev 0.1576

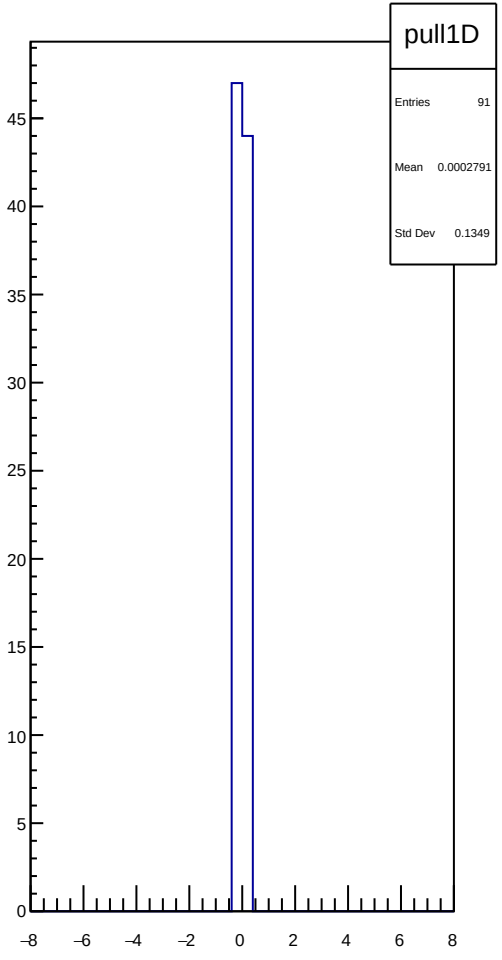

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.157 / 90
p0 −57.43 ± 3.413
−20
−40
−60
−80
−100
pull
Entries 91
Mean −87.67
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2

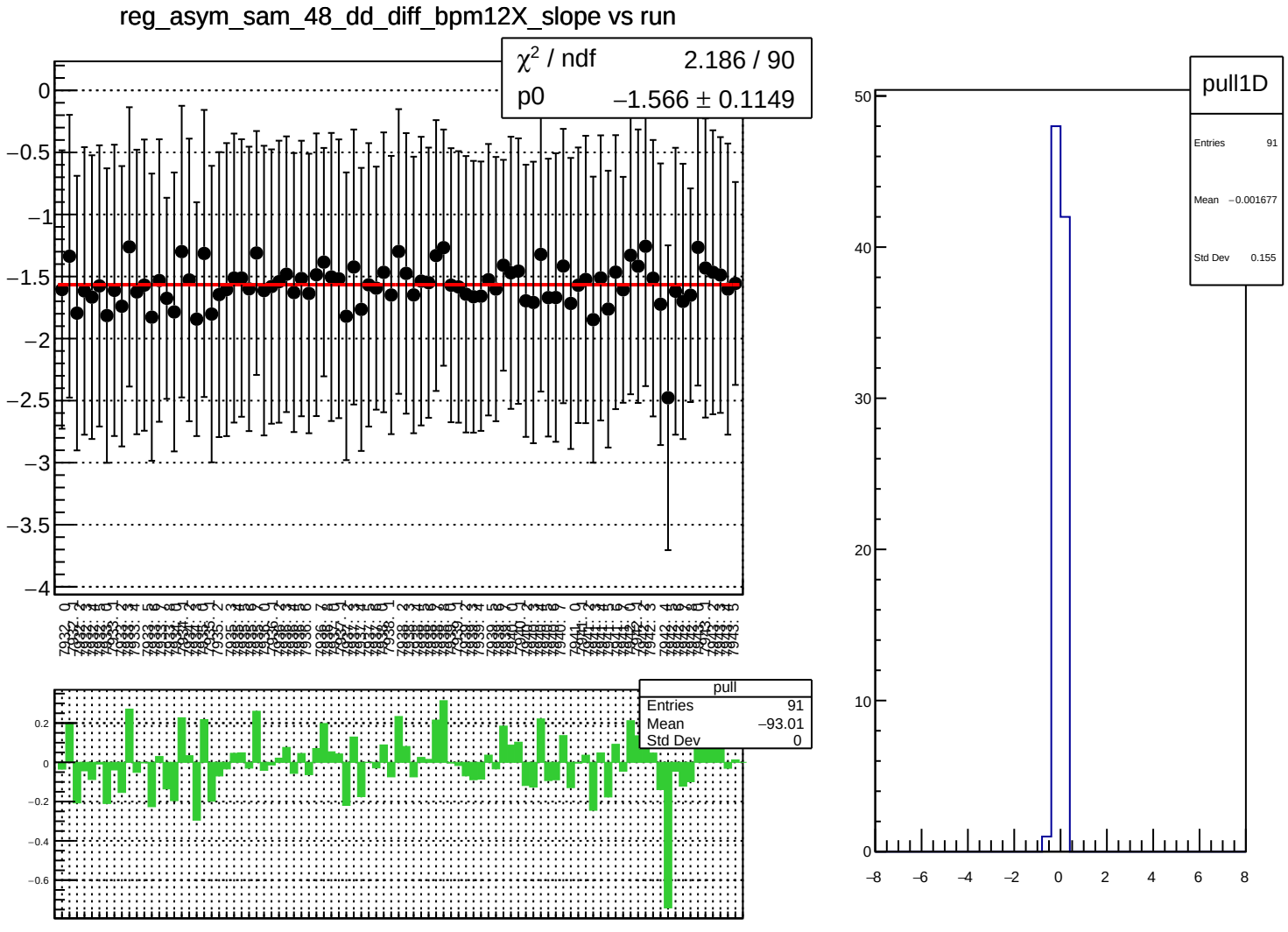

pull1D
Entries 91
Mean −0.007337
Std Dev 0.1538
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

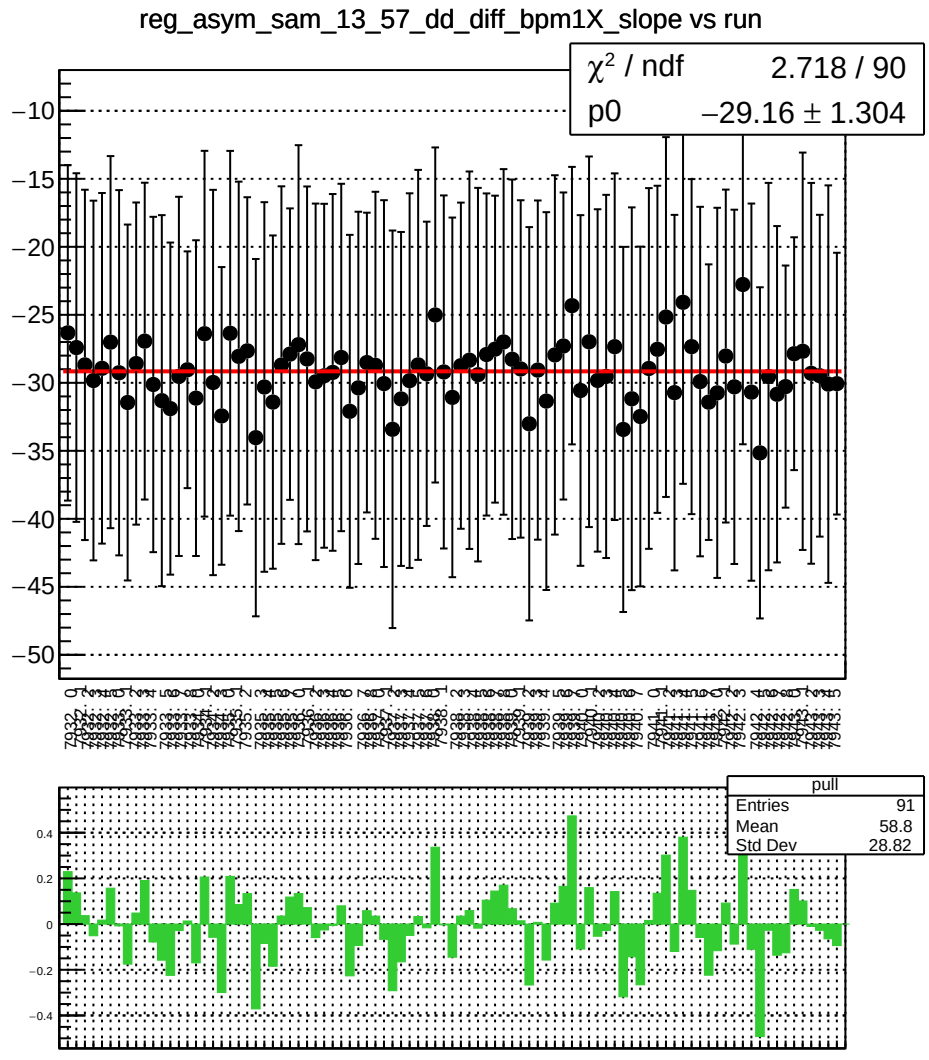

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.693 / 90
p0 81.73 ± 3.556
140
120
100
80
60
40
pull
Entries 91
Mean 1584
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 91
Mean −0.0001838
Std Dev 0.1364
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

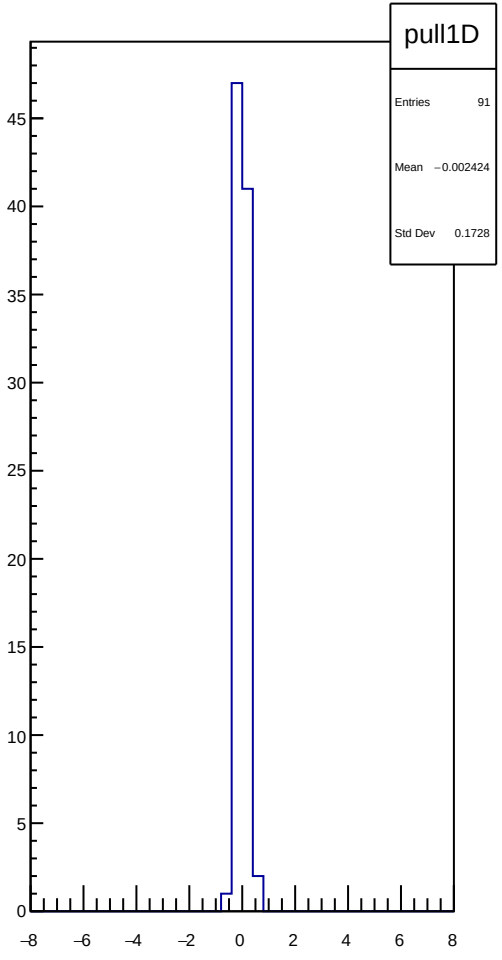

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.873 / 90
p0 −37.96 ± 3.07
0
−20
−40
−60
−80
pull
Entries 91
Mean 2.844
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 91
Mean 0.0067
Std Dev 0.1433
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

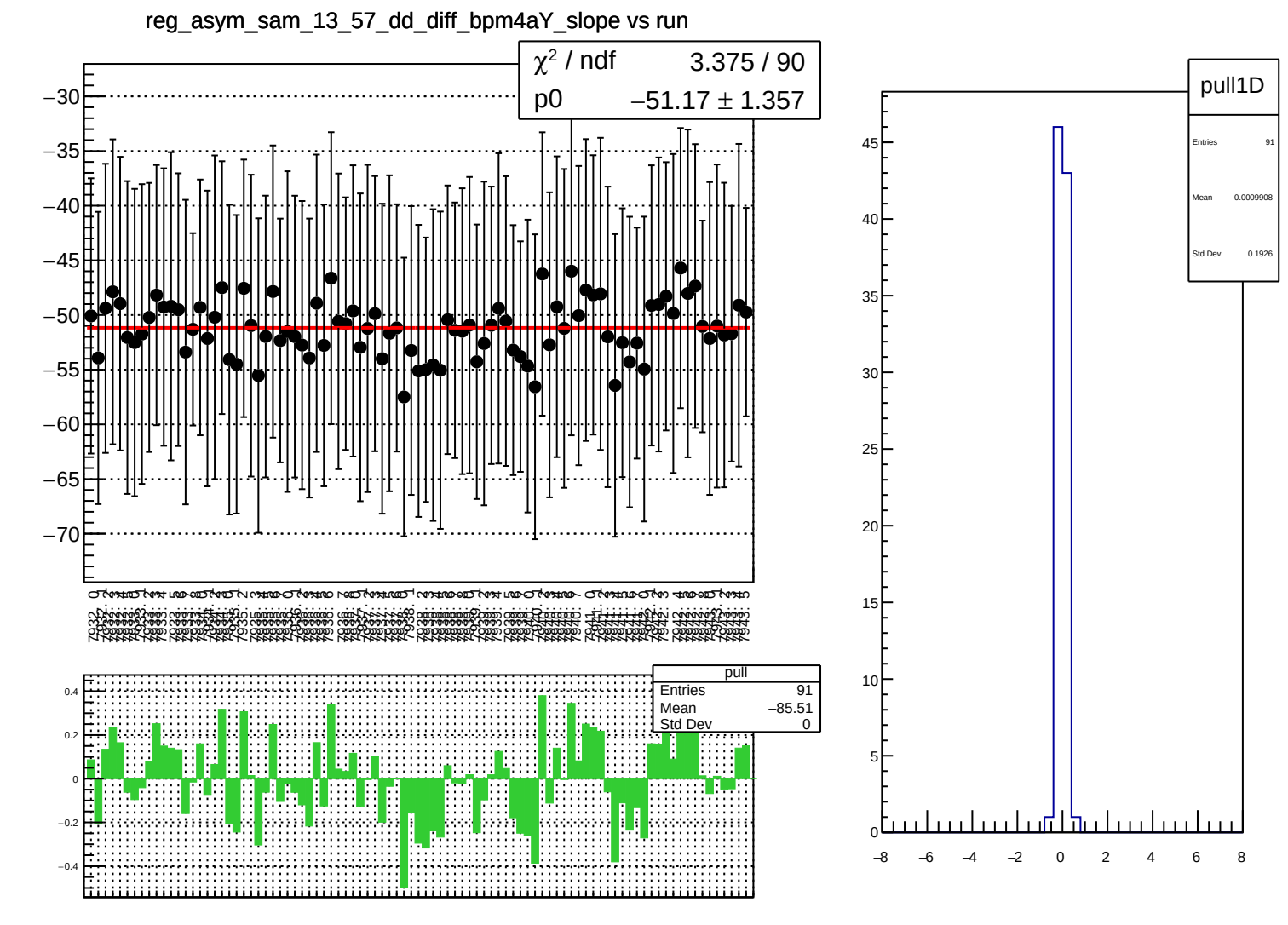

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.657 / 90
p0 33.25 ± 4.1
pull
Entries 91
Mean −761.5
Std Dev 0

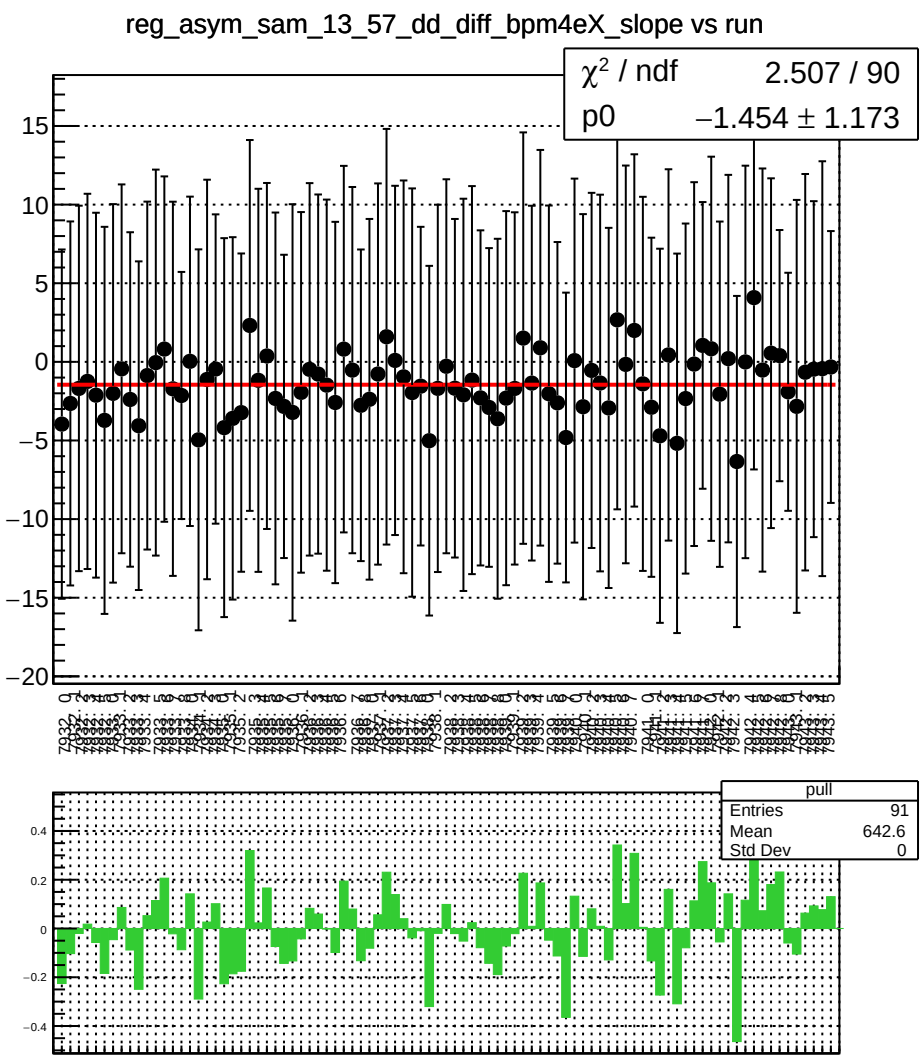

pull1D
Entries 91
Mean 0.0002791
Std Dev 0.1349

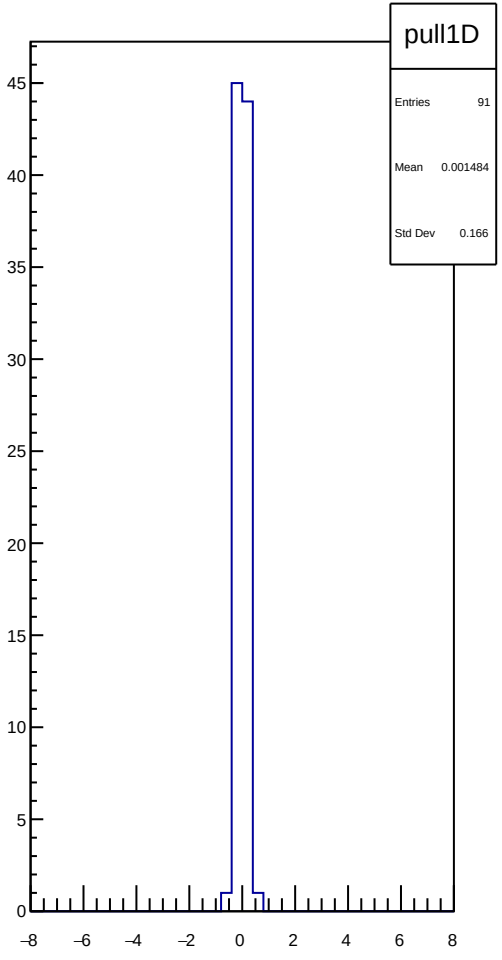

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.186 / 90
p0 −1.566 ± 0.1149
pull
Entries 91
Mean −93.01
Std Dev 0
pull1D
Entries 91
Mean −0.001677
Std Dev 0.155

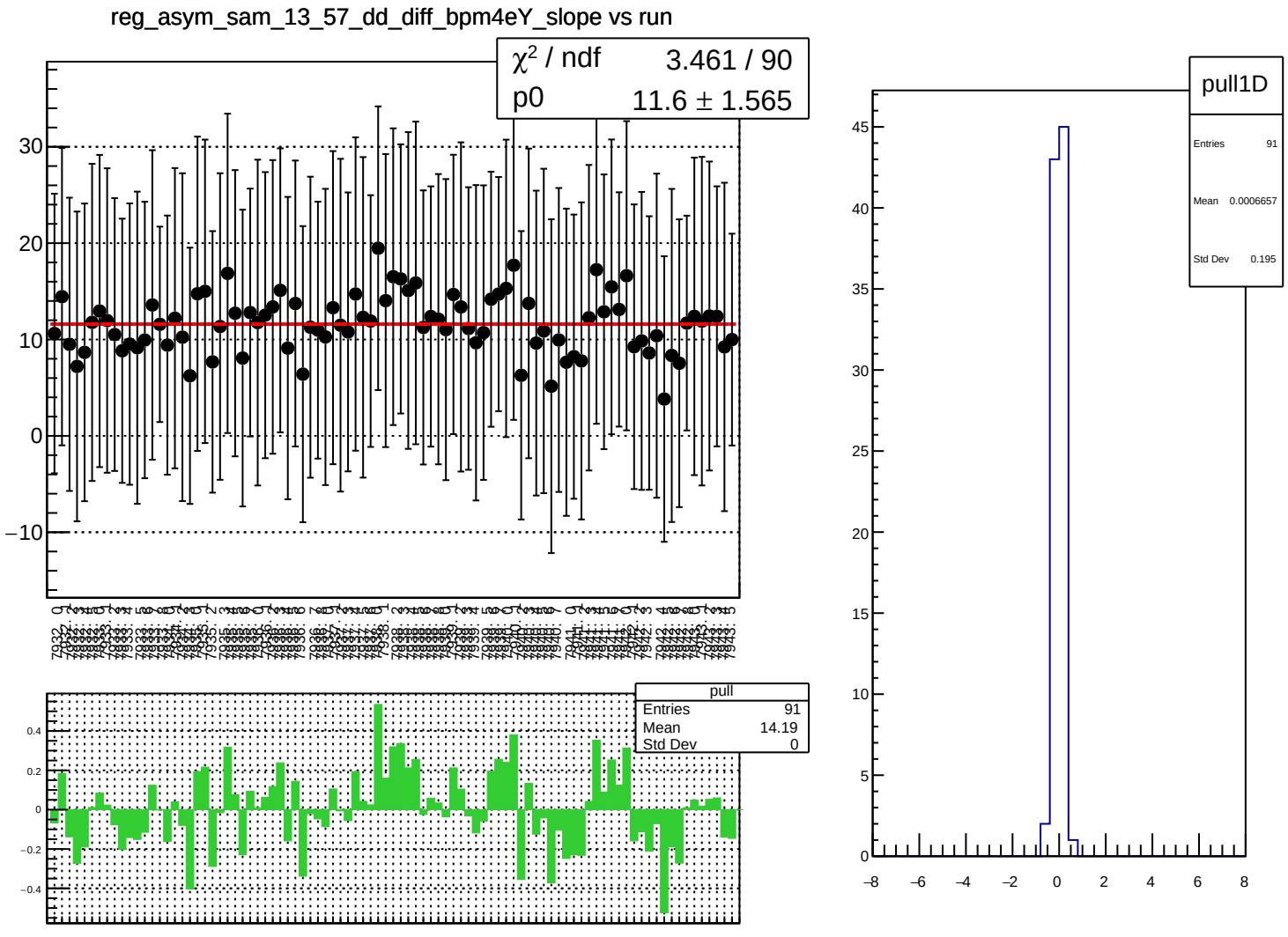

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.718 / 90
p0 −29.16 ± 1.304
pull
Entries 91
Mean 58.8
Std Dev 28.82

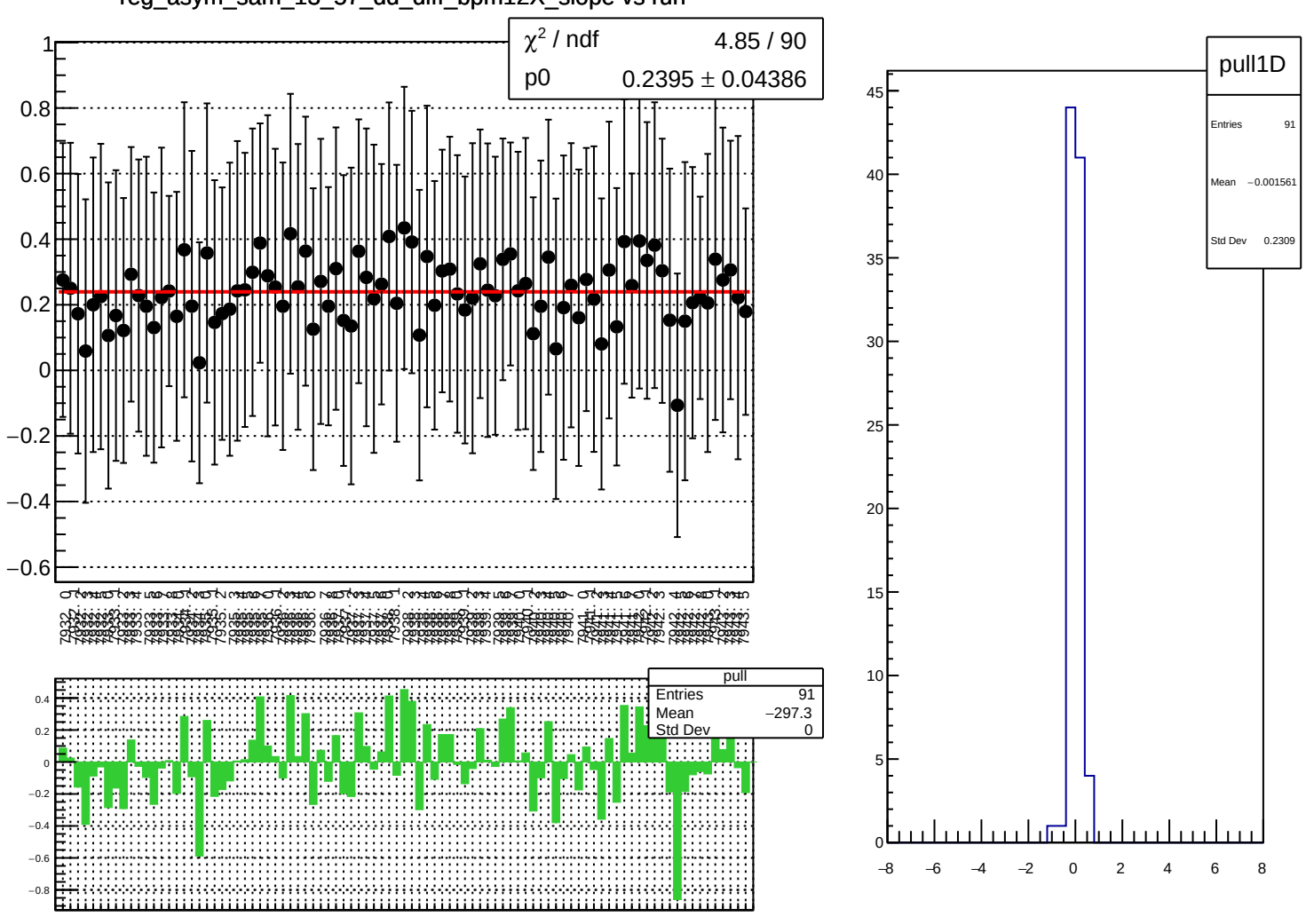

pull1D
Entries 91
Mean −0.002424
Std Dev 0.1728

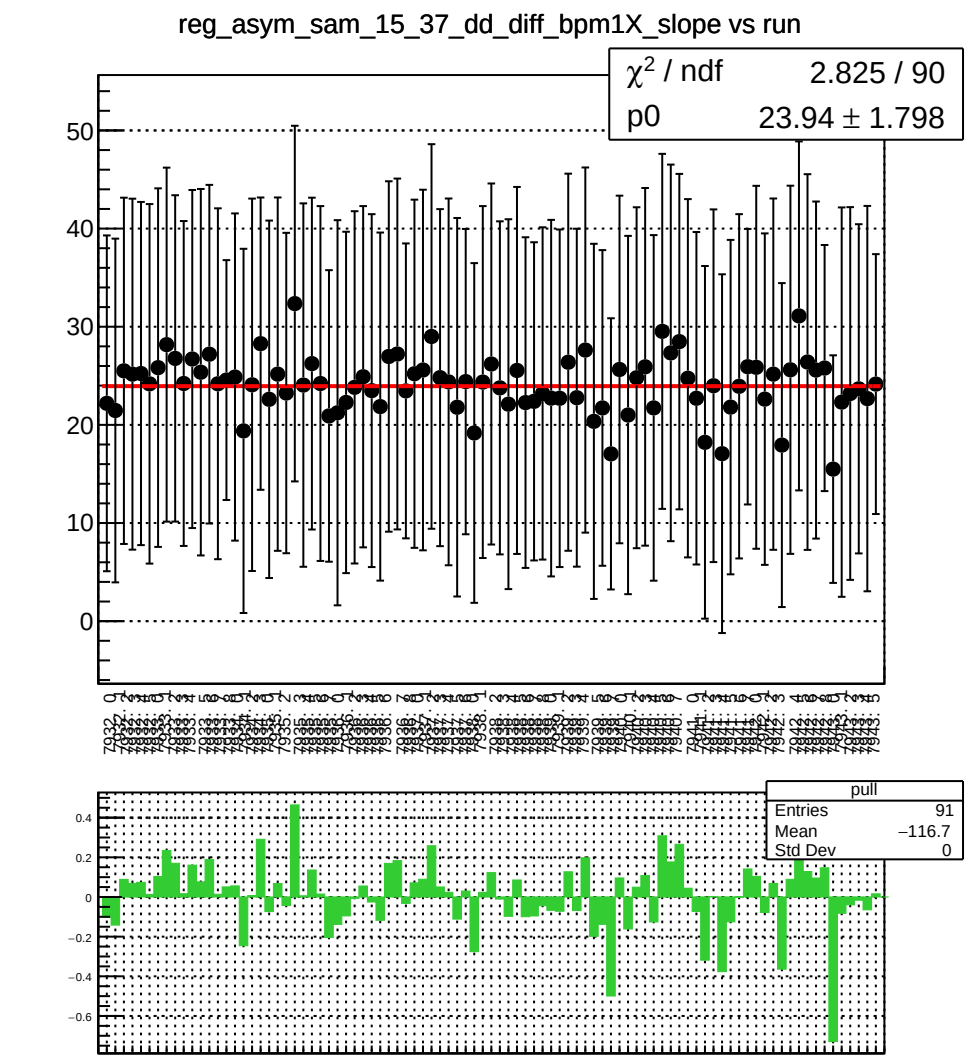

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.375 / 90
p0 −51.17 ± 1.357
pull
Entries 91
Mean −85.51
Std Dev 0
pull1D
Entries 91
Mean −0.0009908
Std Dev 0.1926

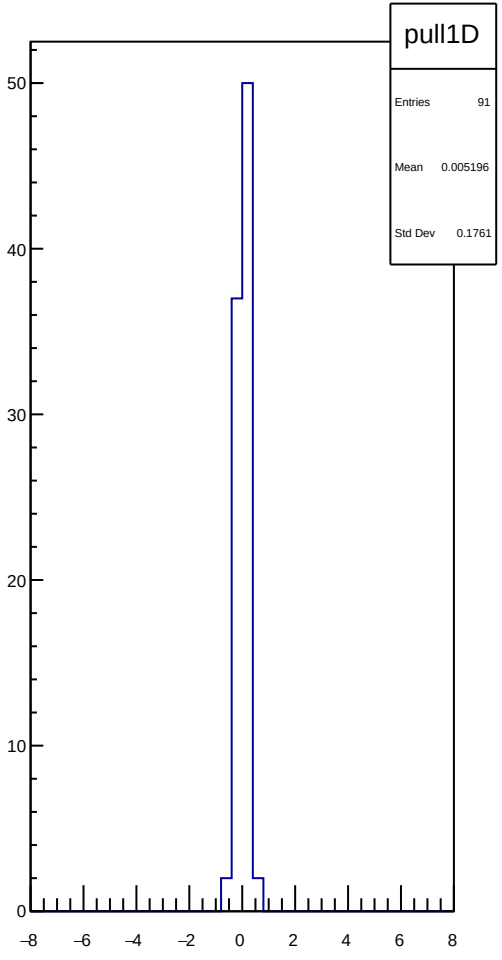

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.507 / 90
p0 −1.454 ± 1.173
pull
Entries 91
Mean 642.6
Std Dev 0

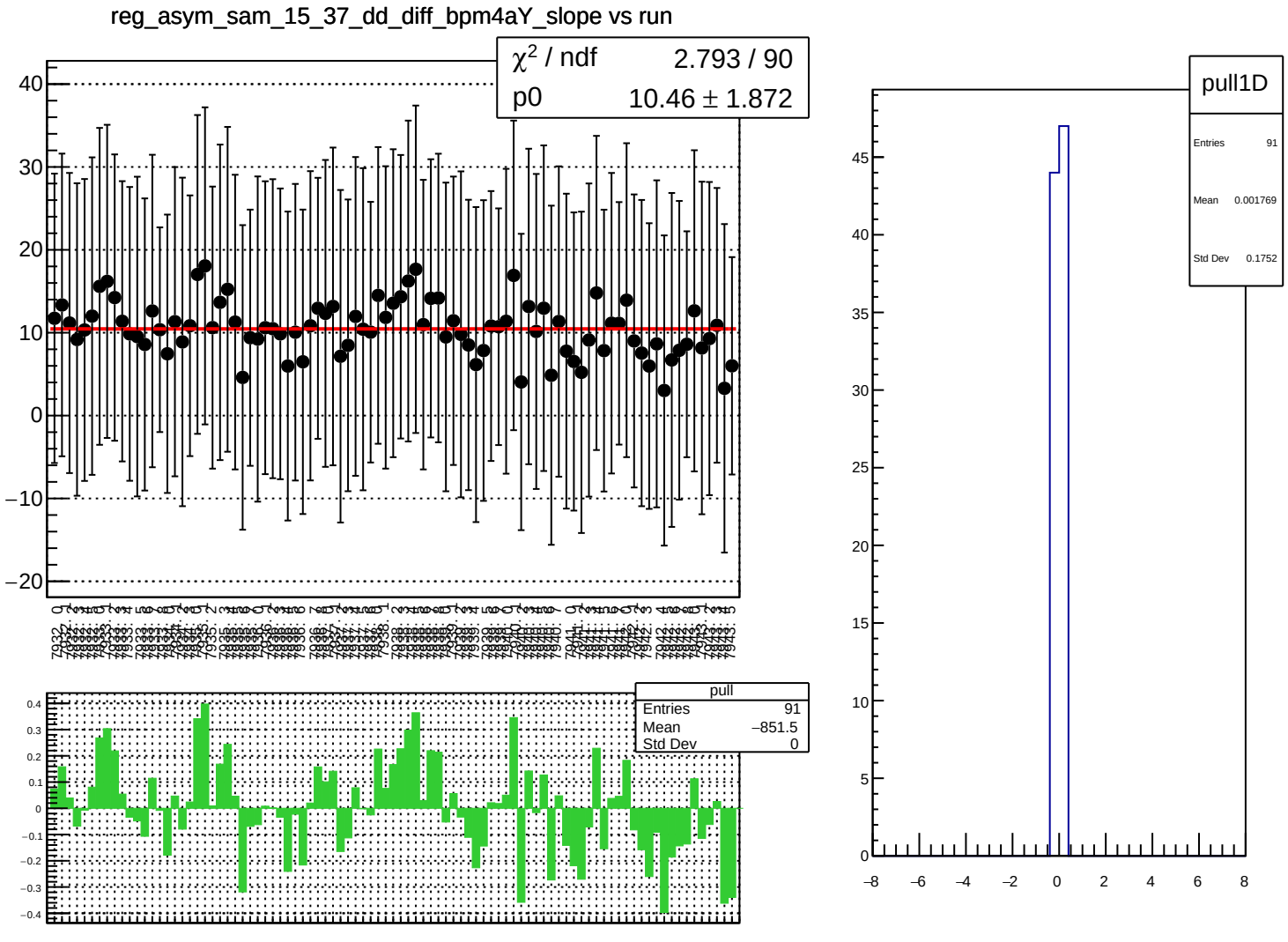

pull1D
Entries 91
Mean 0.001484
Std Dev 0.166

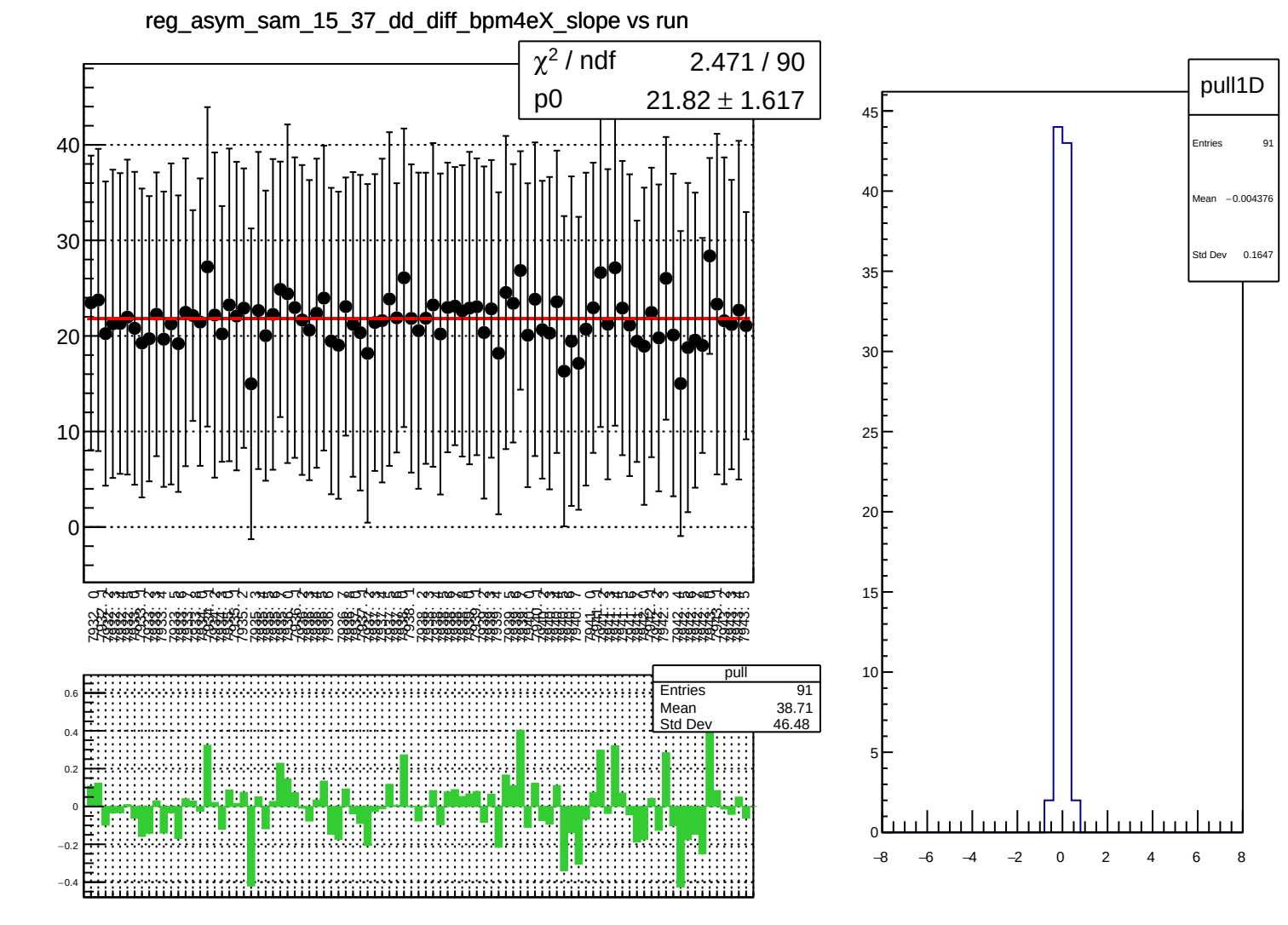

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.461 / 90
p0 11.6 ± 1.565
pull
Entries 91
Mean 14.19
Std Dev 0
pull1D
Entries 91
Mean 0.0006657
Std Dev 0.195

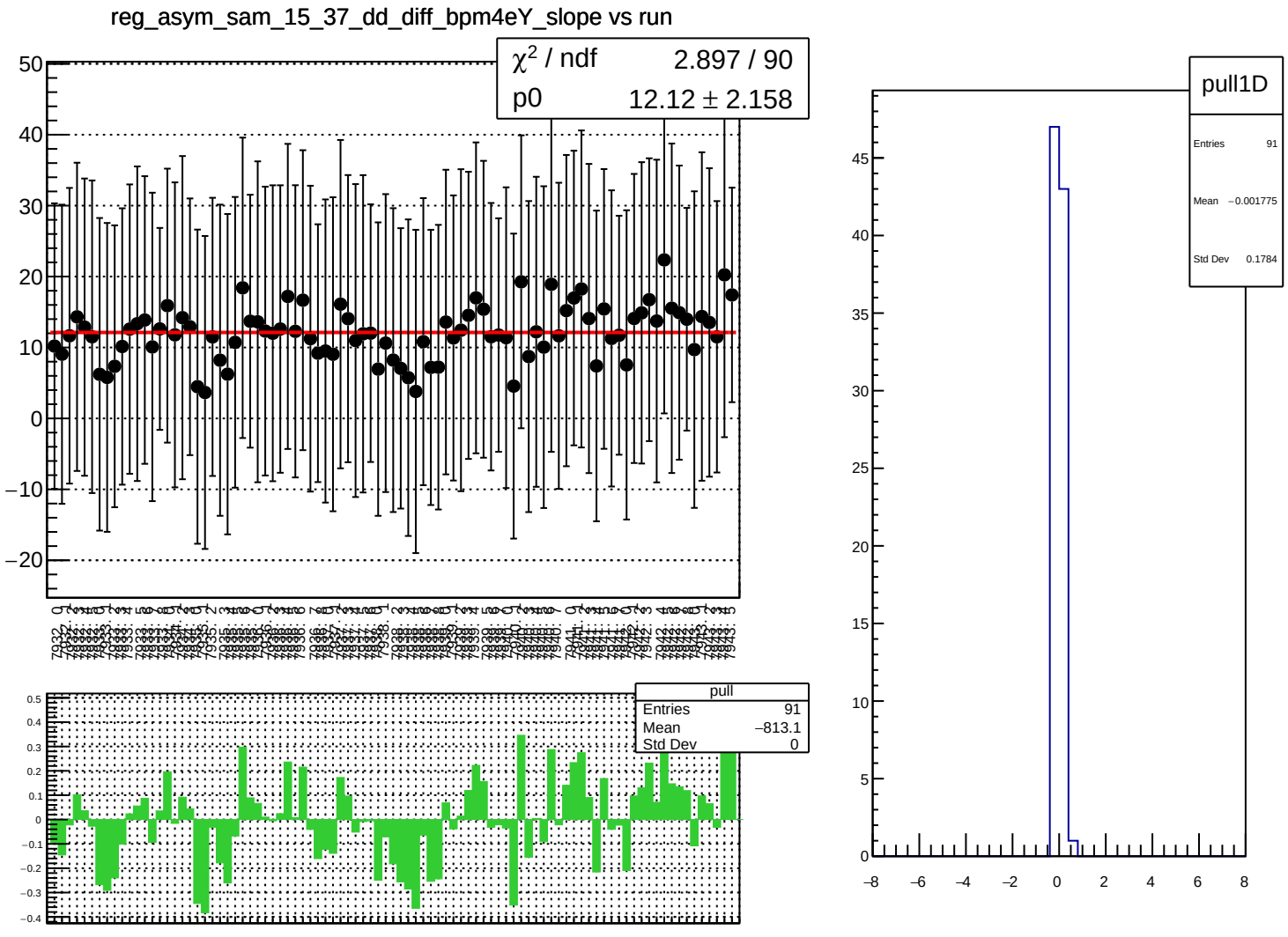

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 4.85 / 90
p0 0.2395 ± 0.04386
pull
Entries 91
Mean −297.3
Std Dev 0
pull1D
Entries 91
Mean −0.001561
Std Dev 0.2309

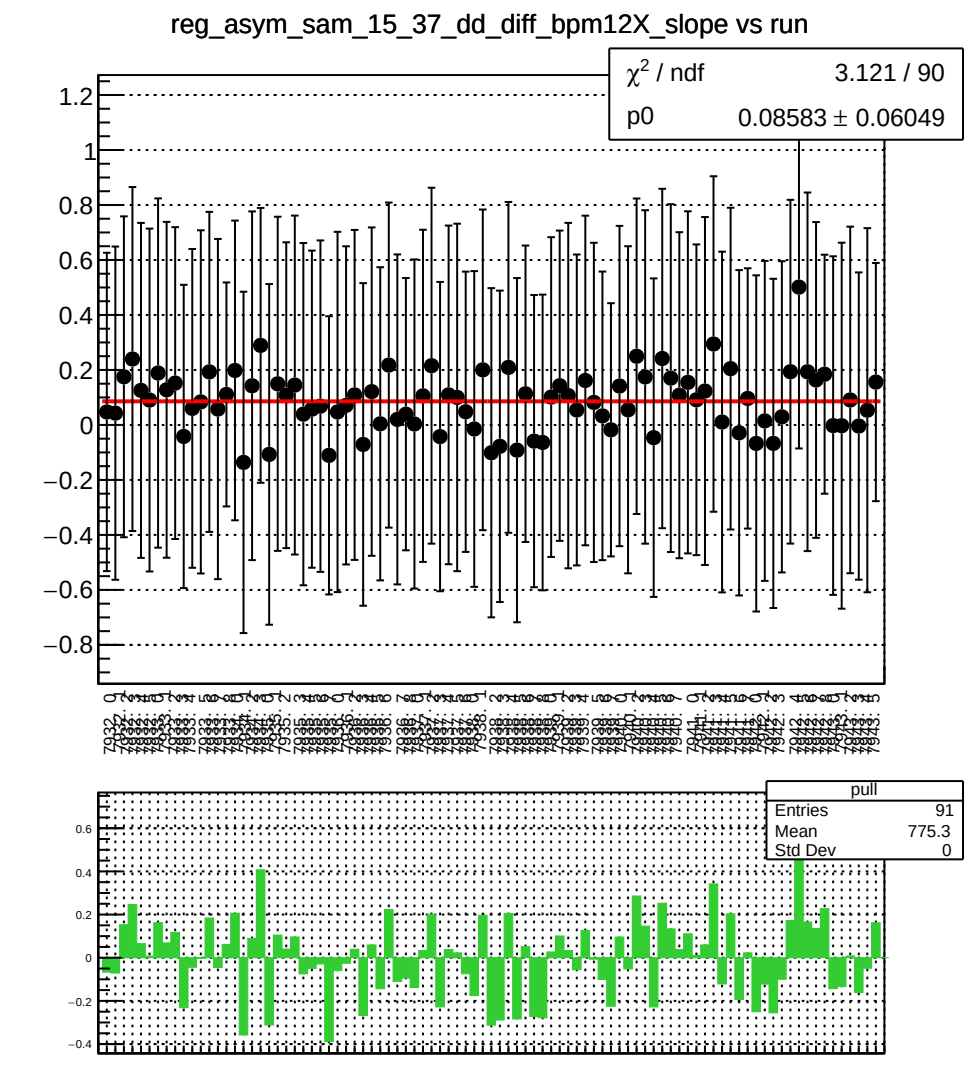

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.825 / 90
p0 23.94 ± 1.798
pull
Entries 91
Mean −116.7
Std Dev 0

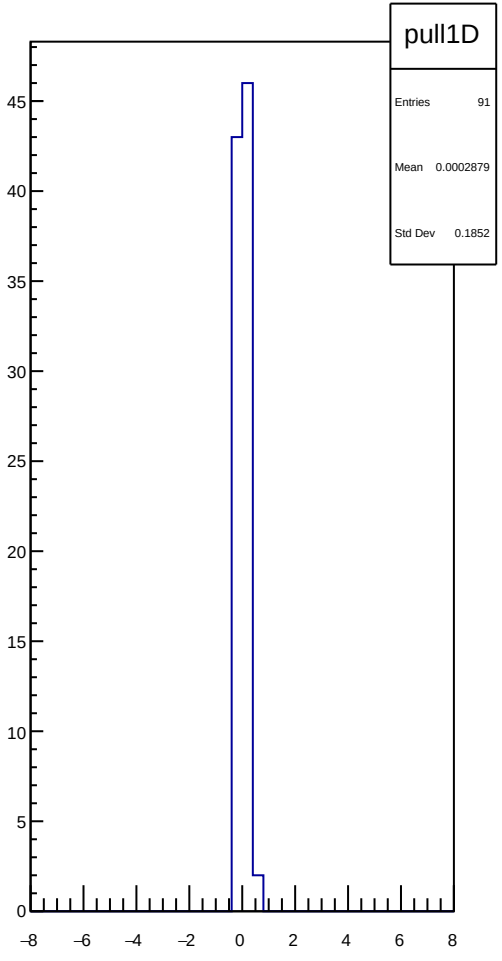

pull1D
Entries 91
Mean 0.005196
Std Dev 0.1761

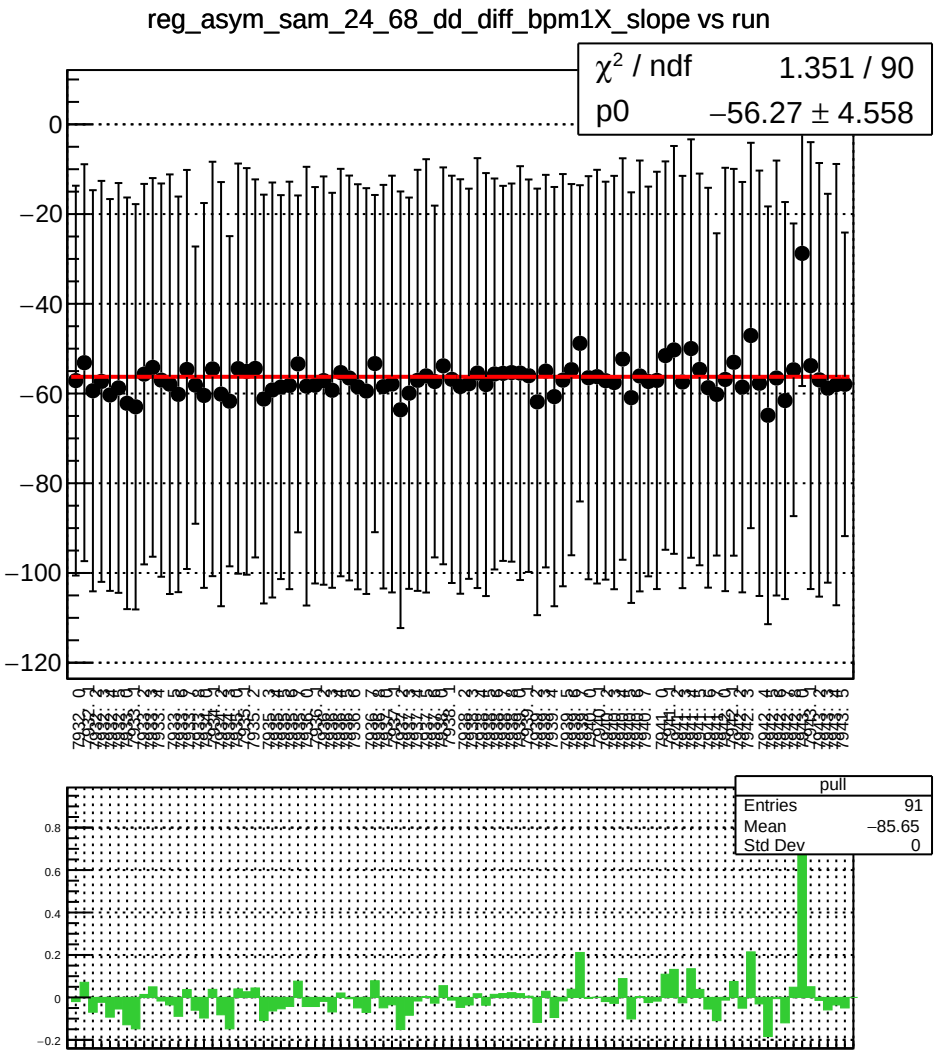

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.793 / 90
p0 10.46 ± 1.872
pull
Entries 91
Mean −851.5
Std Dev 0
pull1D
Entries 91
Mean 0.001769
Std Dev 0.1752

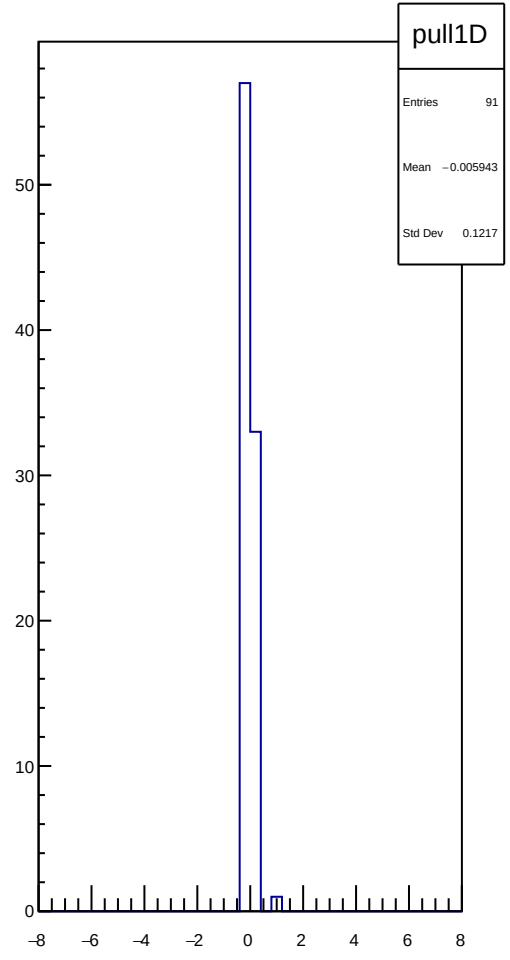

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.471 / 90
p0 21.82 ± 1.617
pull
Entries 91
Mean 38.71
Std Dev 46.48
pull1D
Entries 91
Mean −0.004376
Std Dev 0.1647

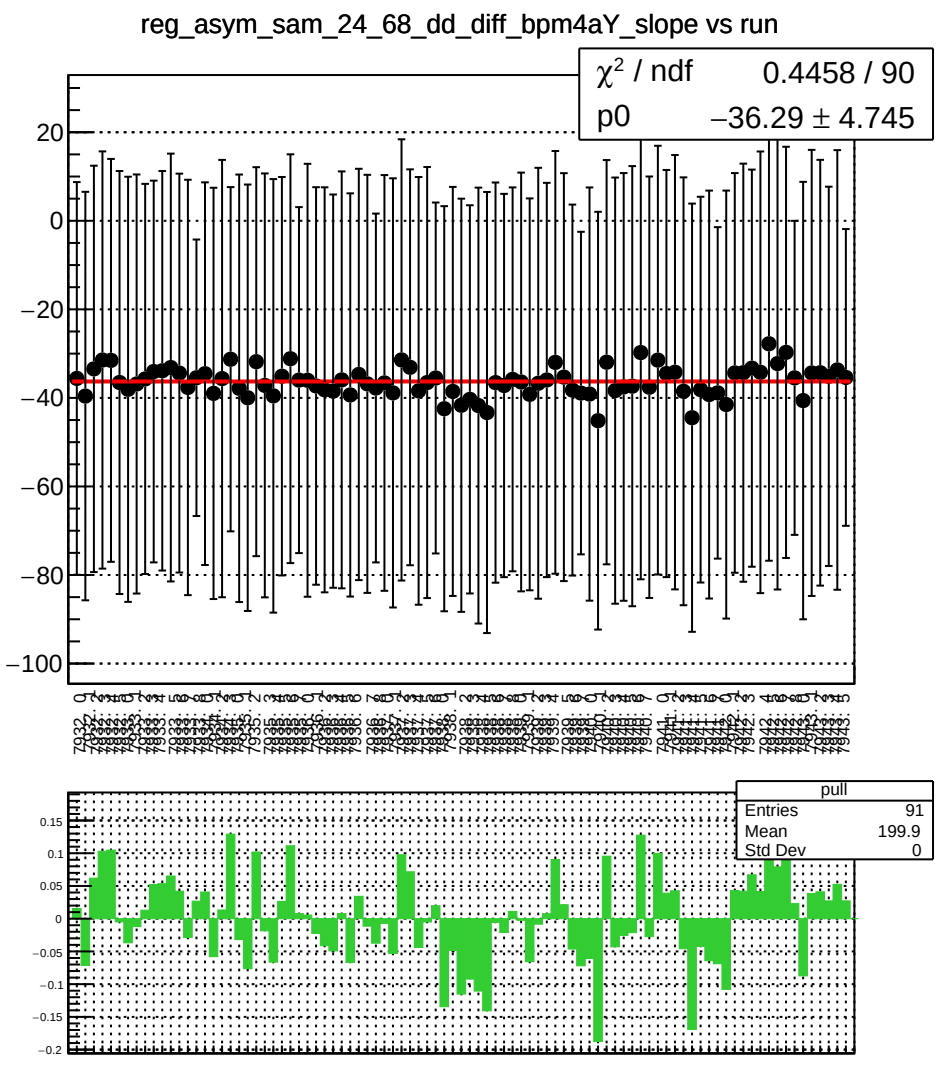

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.897 / 90
p0 12.12 ± 2.158
pull
Entries 91
Mean −813.1
Std Dev 0
pull1D
Entries 91
Mean −0.001775
Std Dev 0.1784

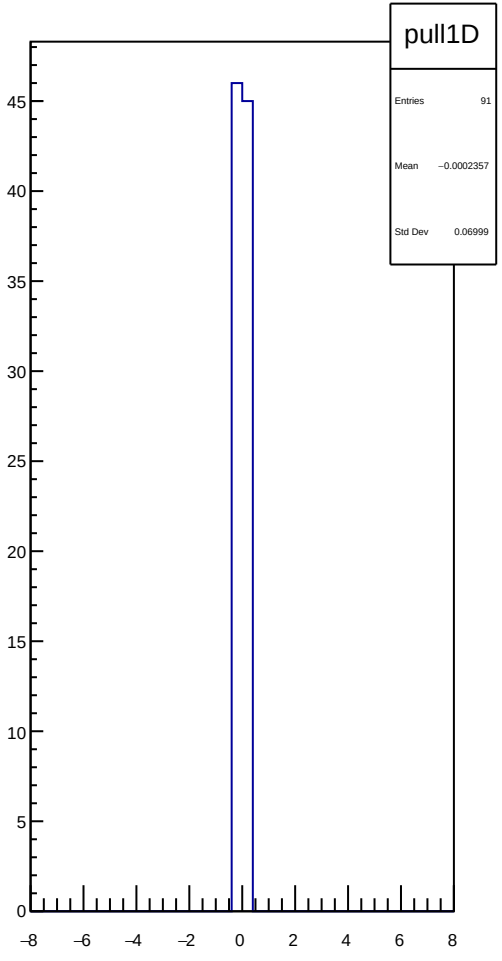

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.121 / 90
p0 0.08583 ± 0.06049
pull
Entries 91
Mean 775.3
Std Dev 0

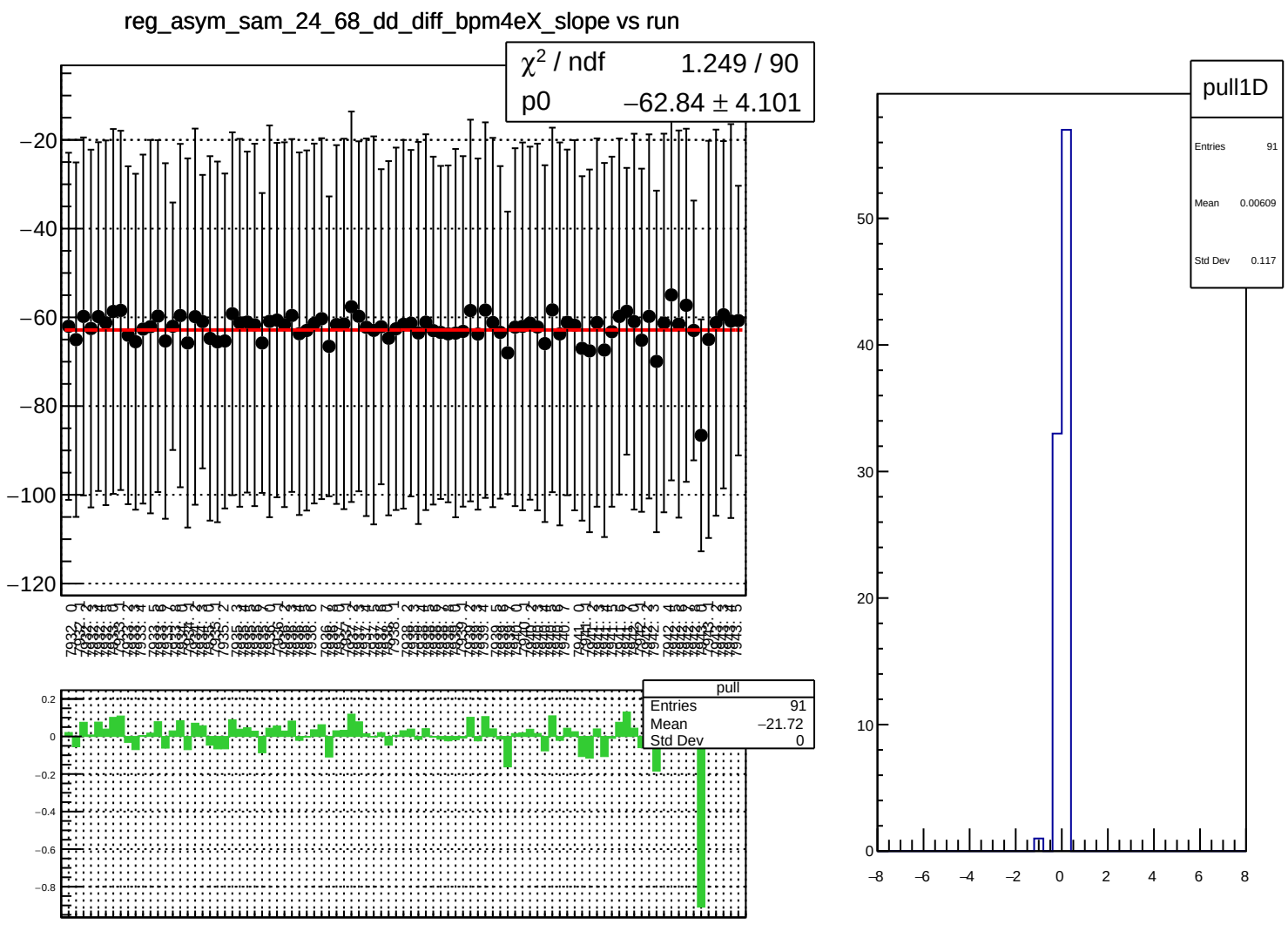

pull1D
Entries 91
Mean 0.0002879
Std Dev 0.1852

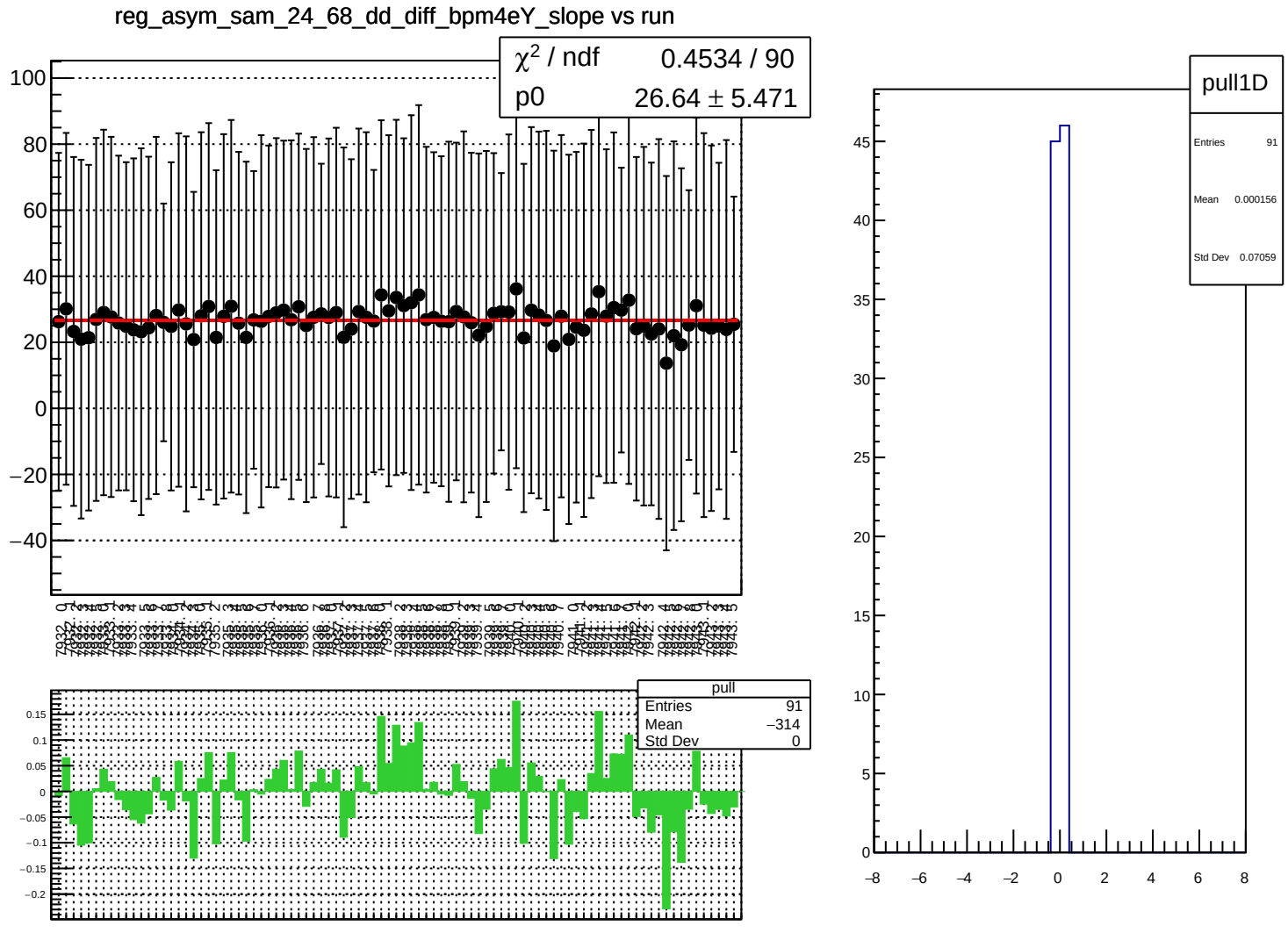

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.351 / 90
p0 −56.27 ± 4.558
pull
Entries 91
Mean −85.65
Std Dev 0

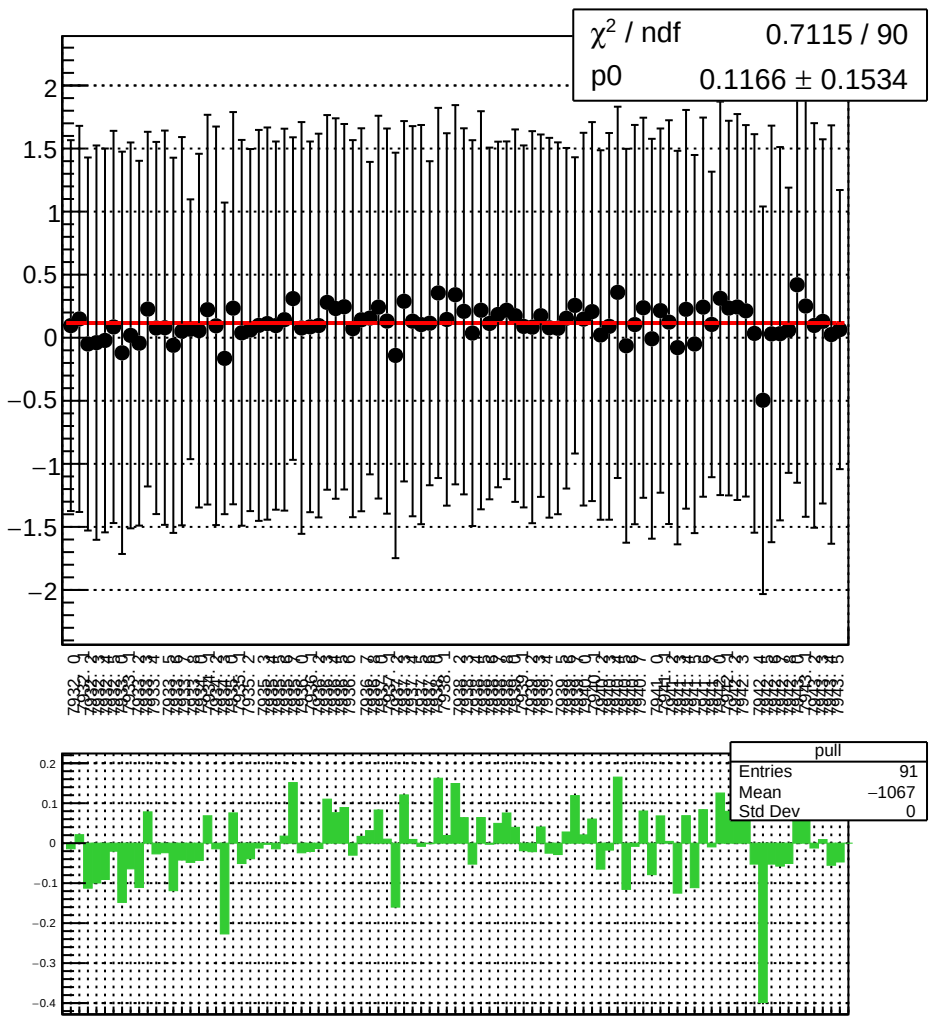

pull1D
Entries 91
Mean −0.005943
Std Dev 0.1217

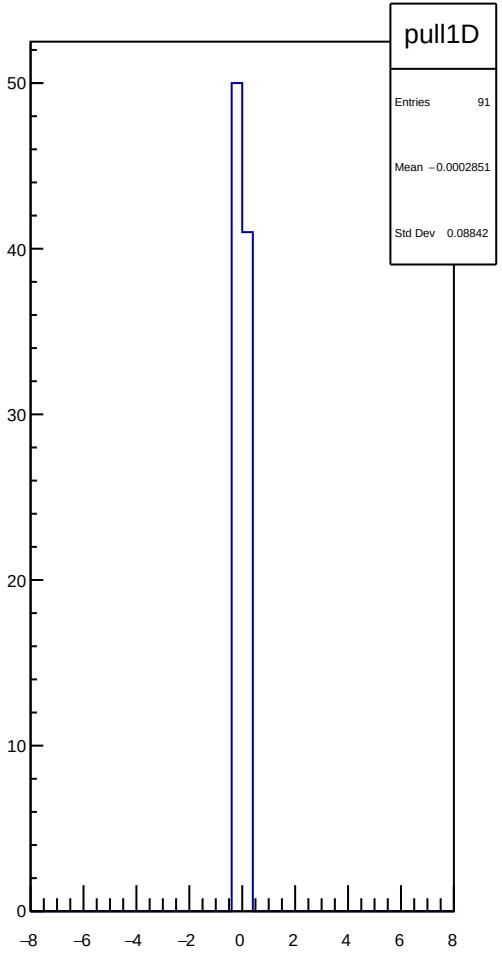

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4458 / 90
p0 −36.29 ± 4.745
pull
Entries 91
Mean 199.9
Std Dev 0

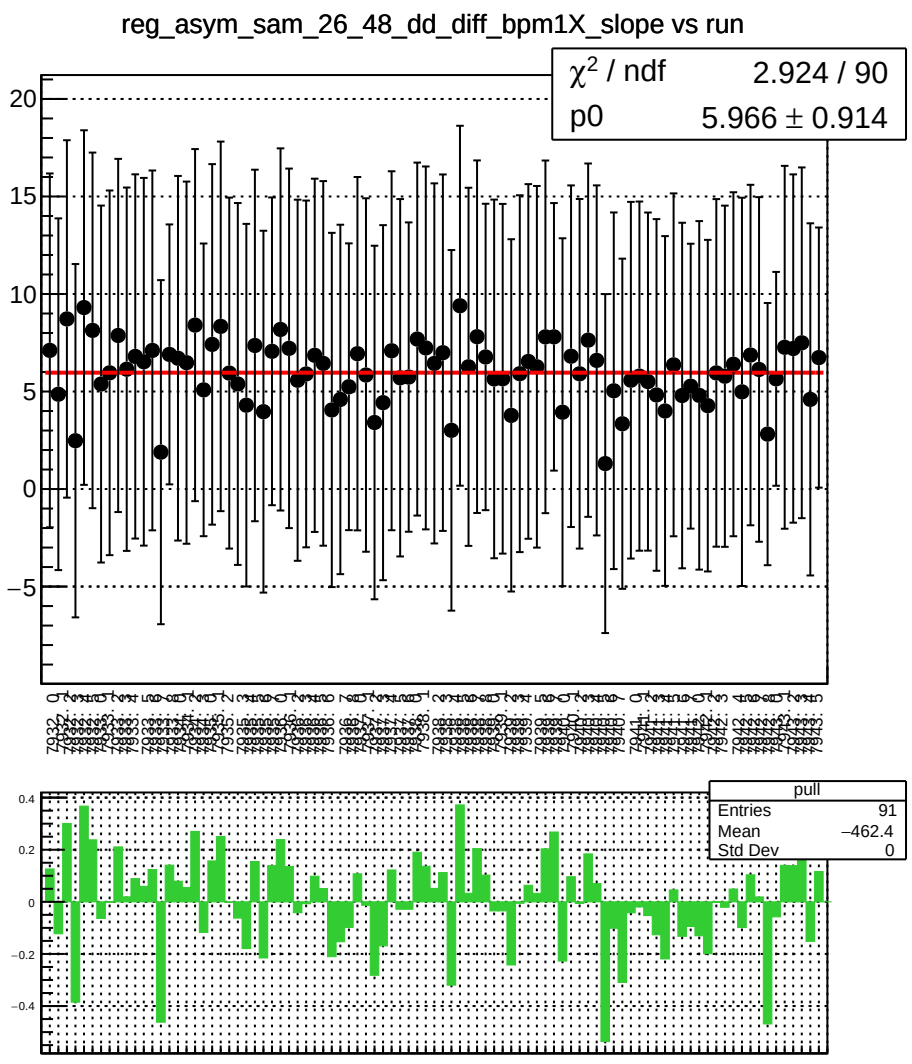

pull1D
Entries 91
Mean −0.0002357
Std Dev 0.06999

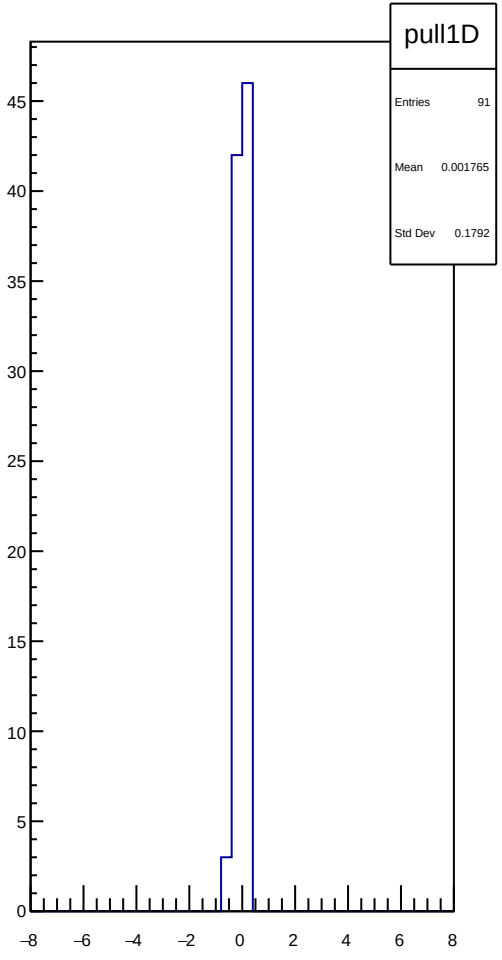

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.249 / 90
p0 −62.84 ± 4.101
−20
−40
−60
−80
−100
−120
pull
Entries 91
Mean −21.72
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 91
Mean 0.00609
Std Dev 0.117
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

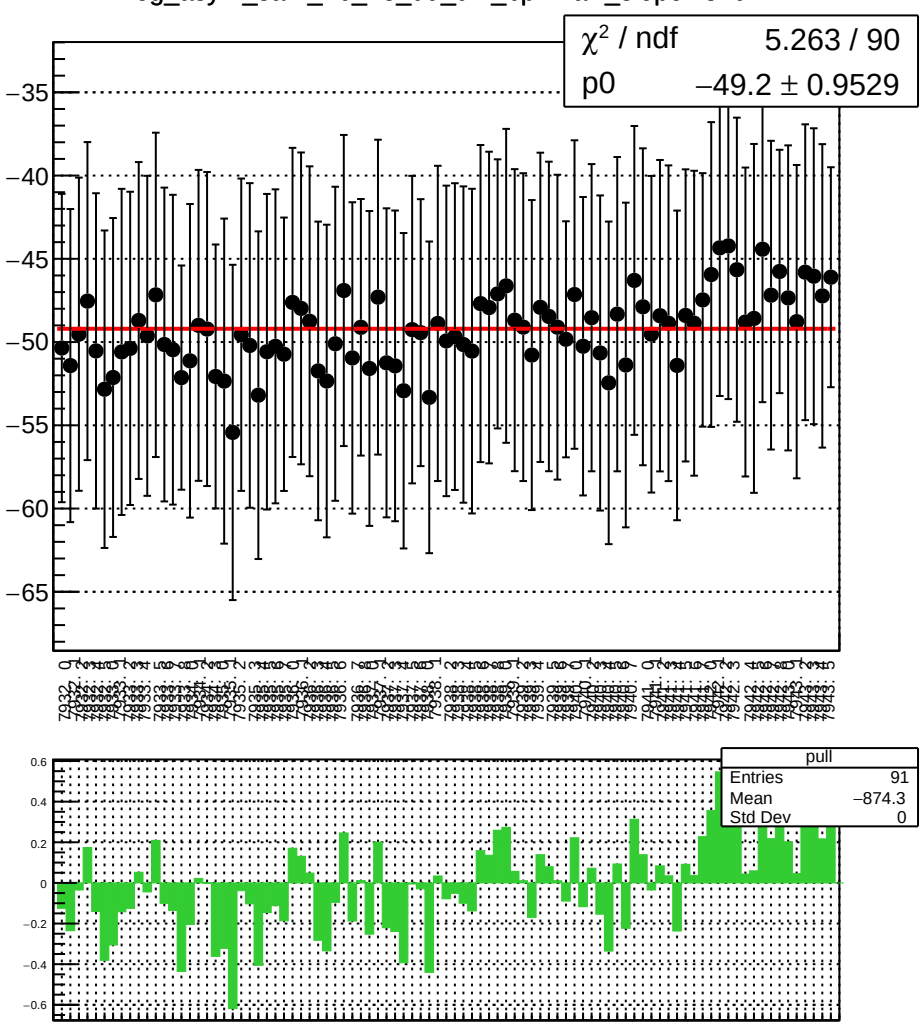

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4534 / 90
p0 26.64 ± 5.471
pull
Entries 91
Mean −314
Std Dev 0
pull1D
Entries 91
Mean 0.000156
Std Dev 0.07059

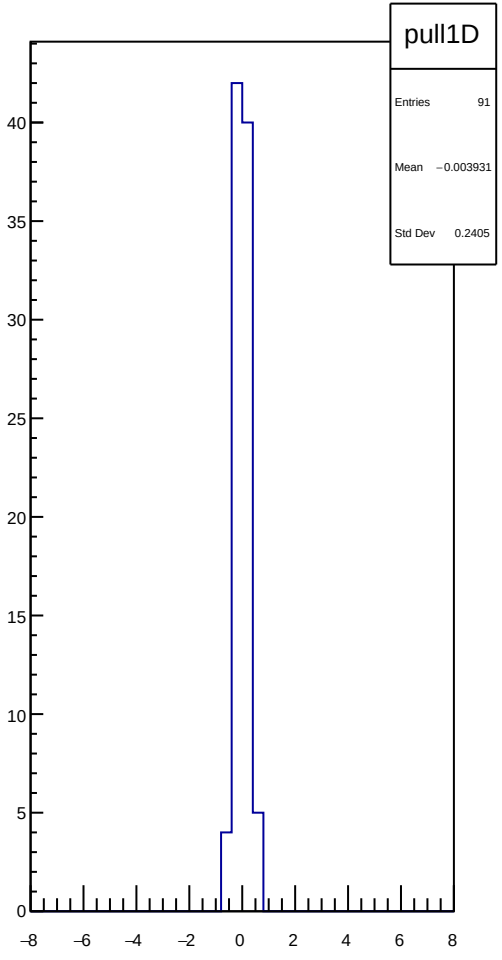

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7115 / 90
p0 0.1166 ± 0.1534
pull
Entries 91
Mean −1067
Std Dev 0

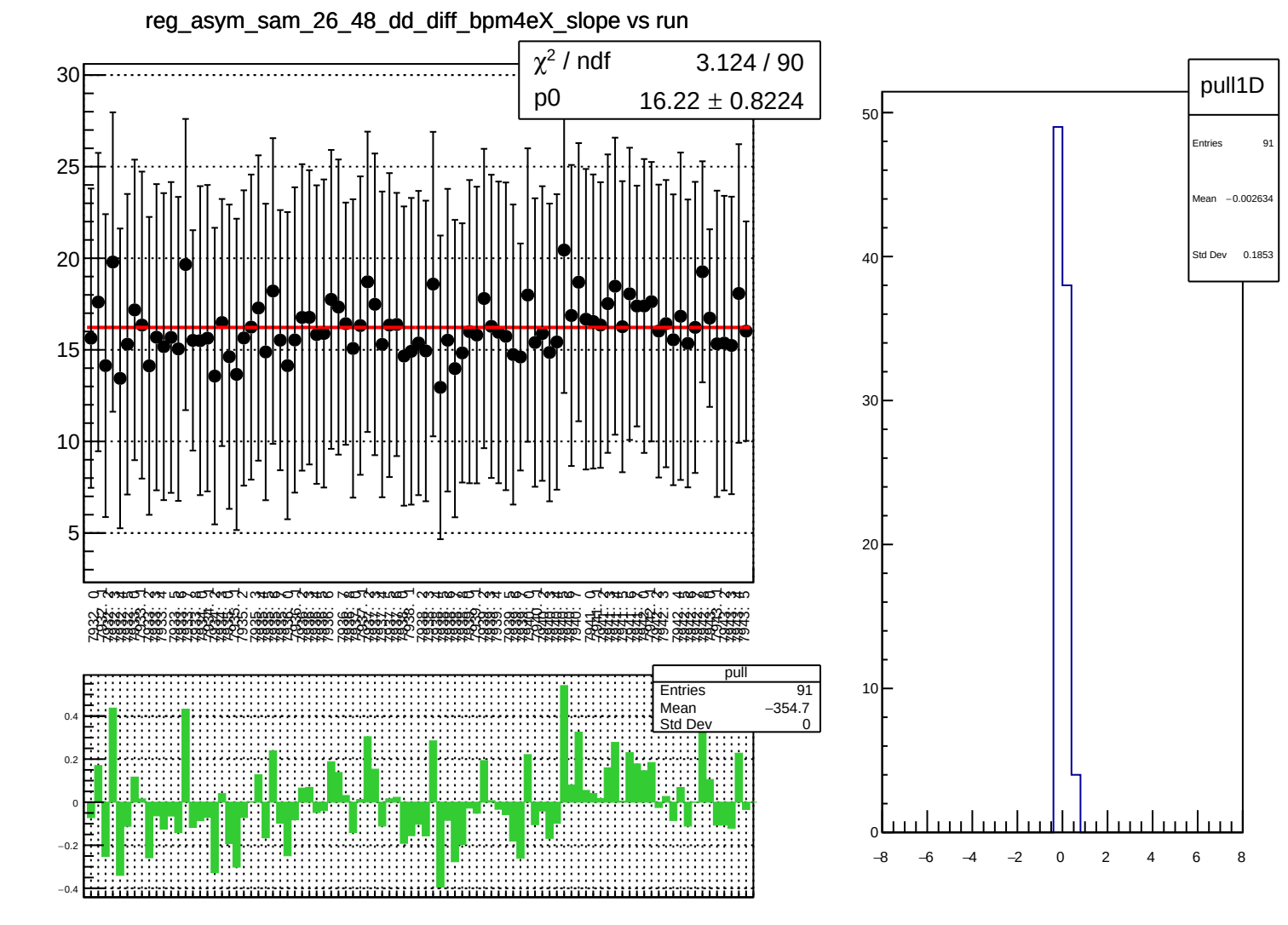

pull1D
Entries 91
Mean −0.0002851
Std Dev 0.08842

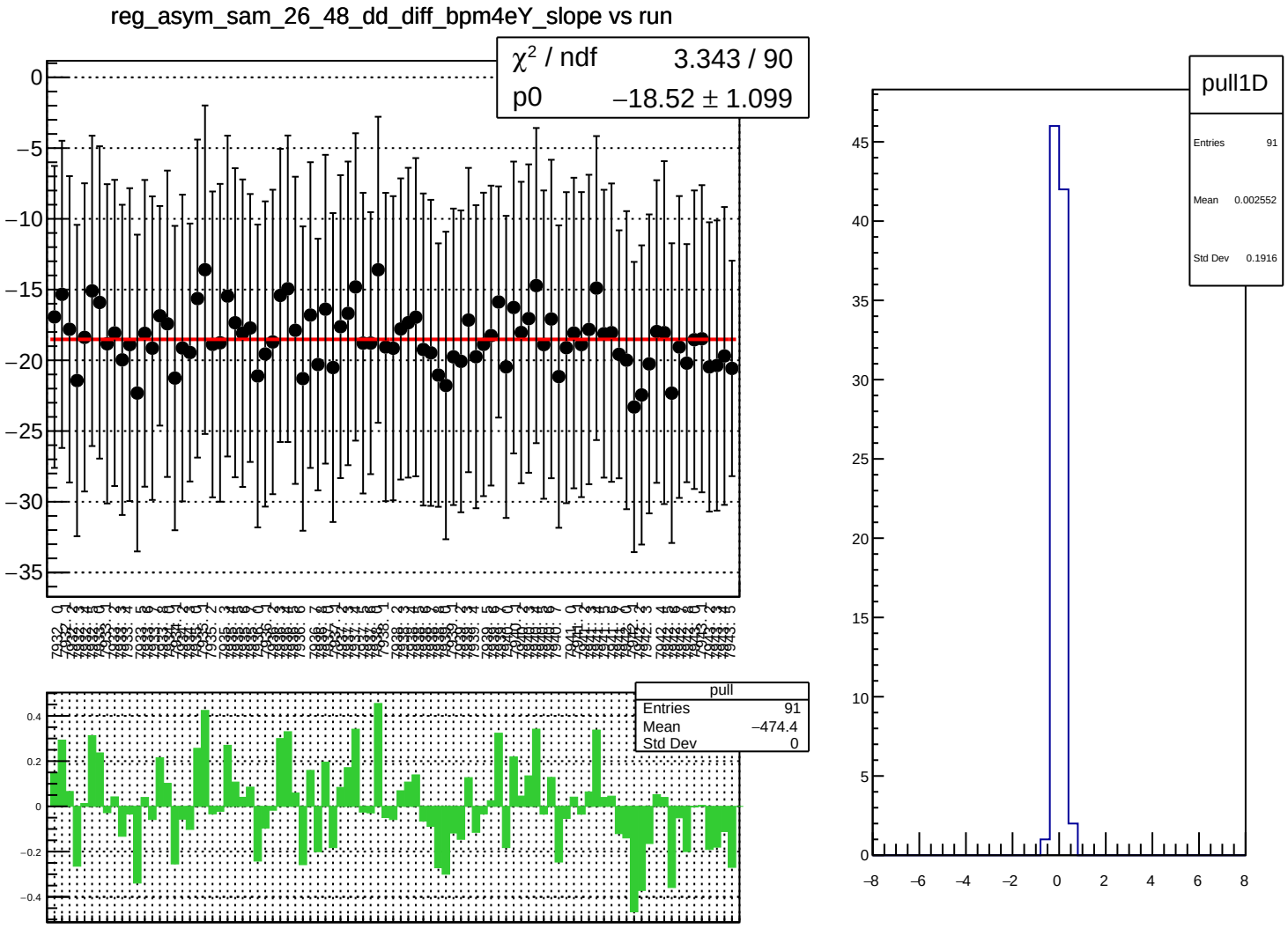

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.924 / 90
p0 5.966 ± 0.914
pull
Entries 91
Mean −462.4
Std Dev 0

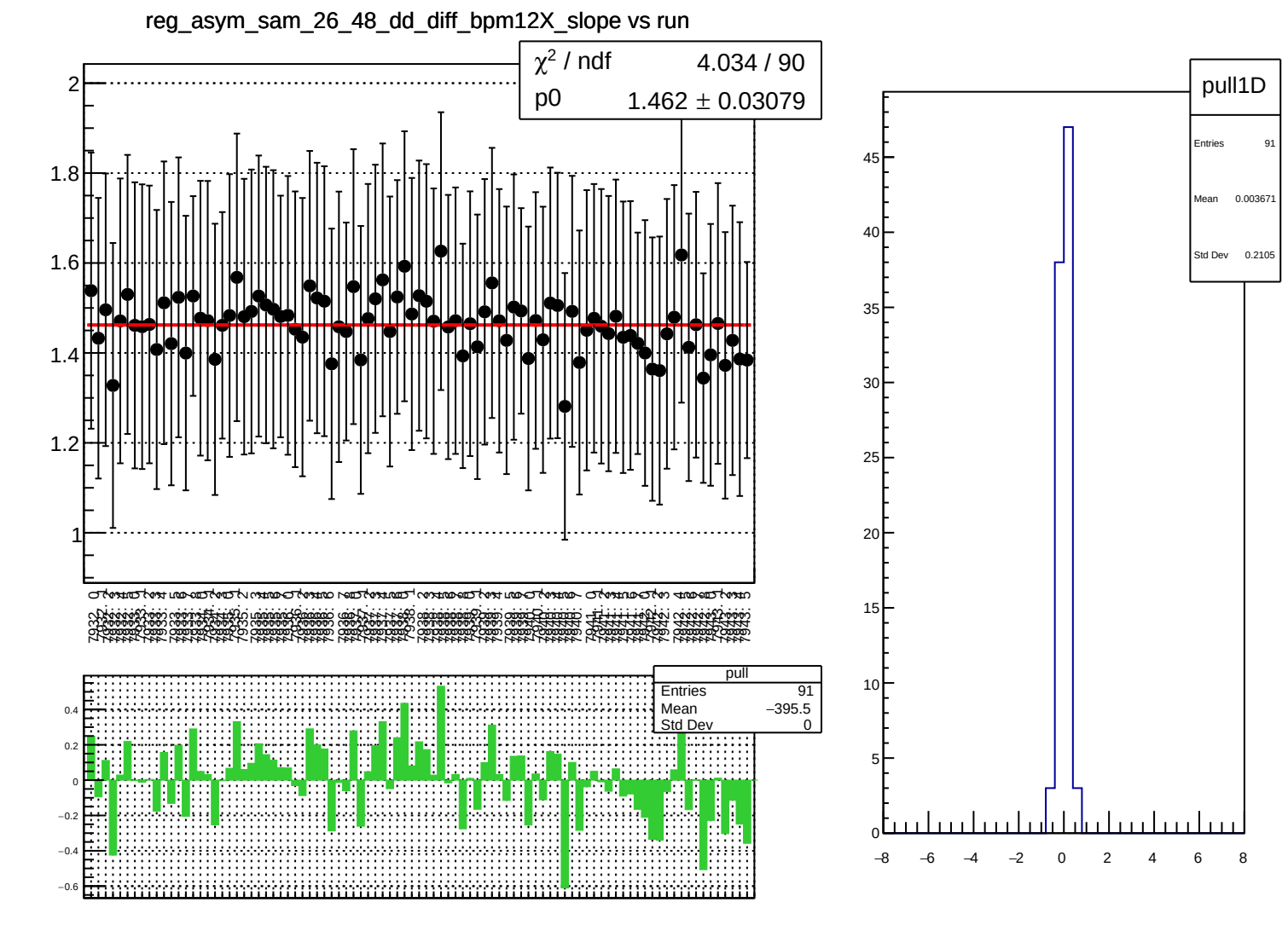

pull1D
Entries 91
Mean 0.001765
Std Dev 0.1792

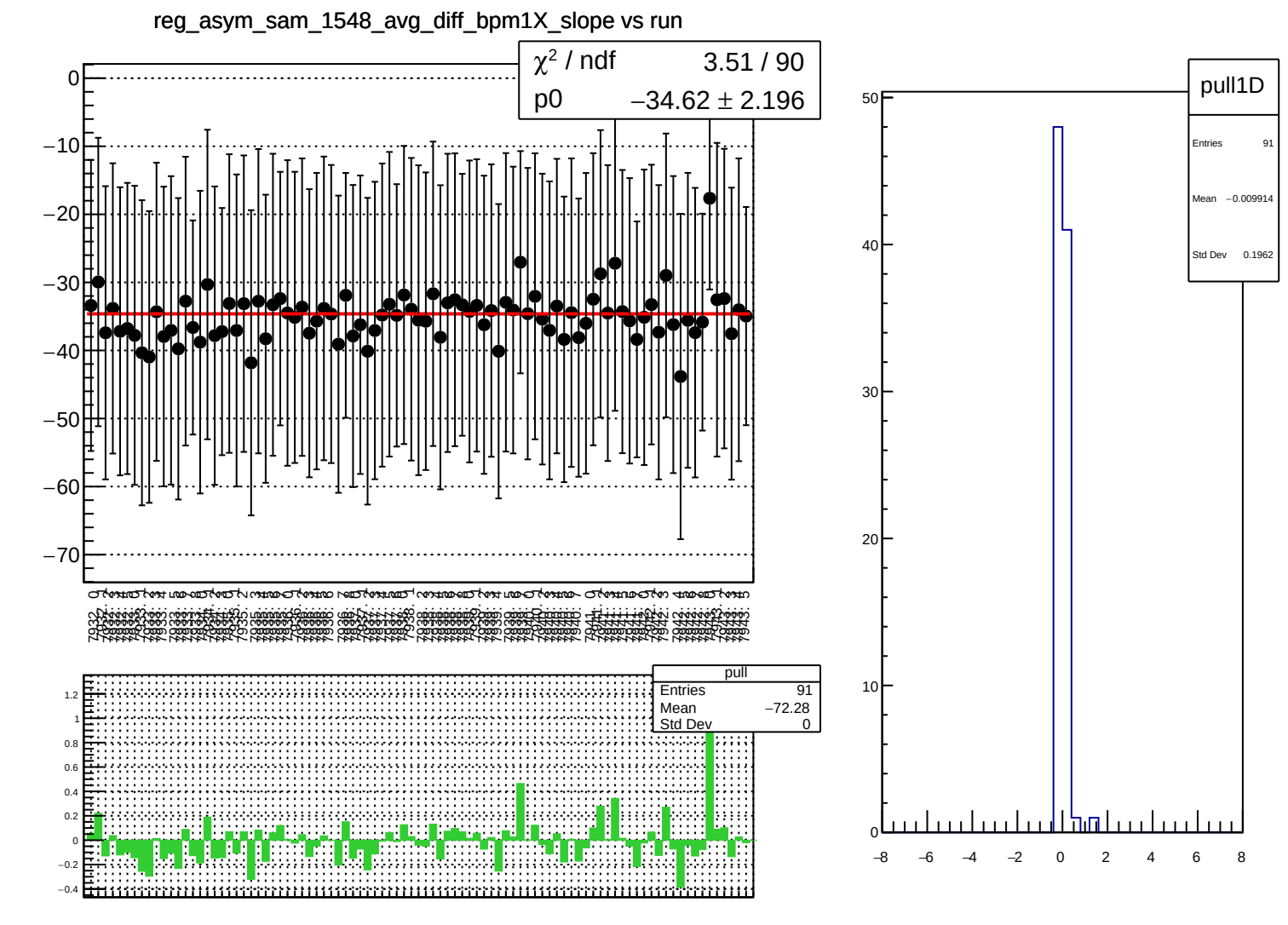

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.263 / 90
p0 −49.2 ± 0.9529
pull
Entries 91
Mean −874.3
Std Dev 0

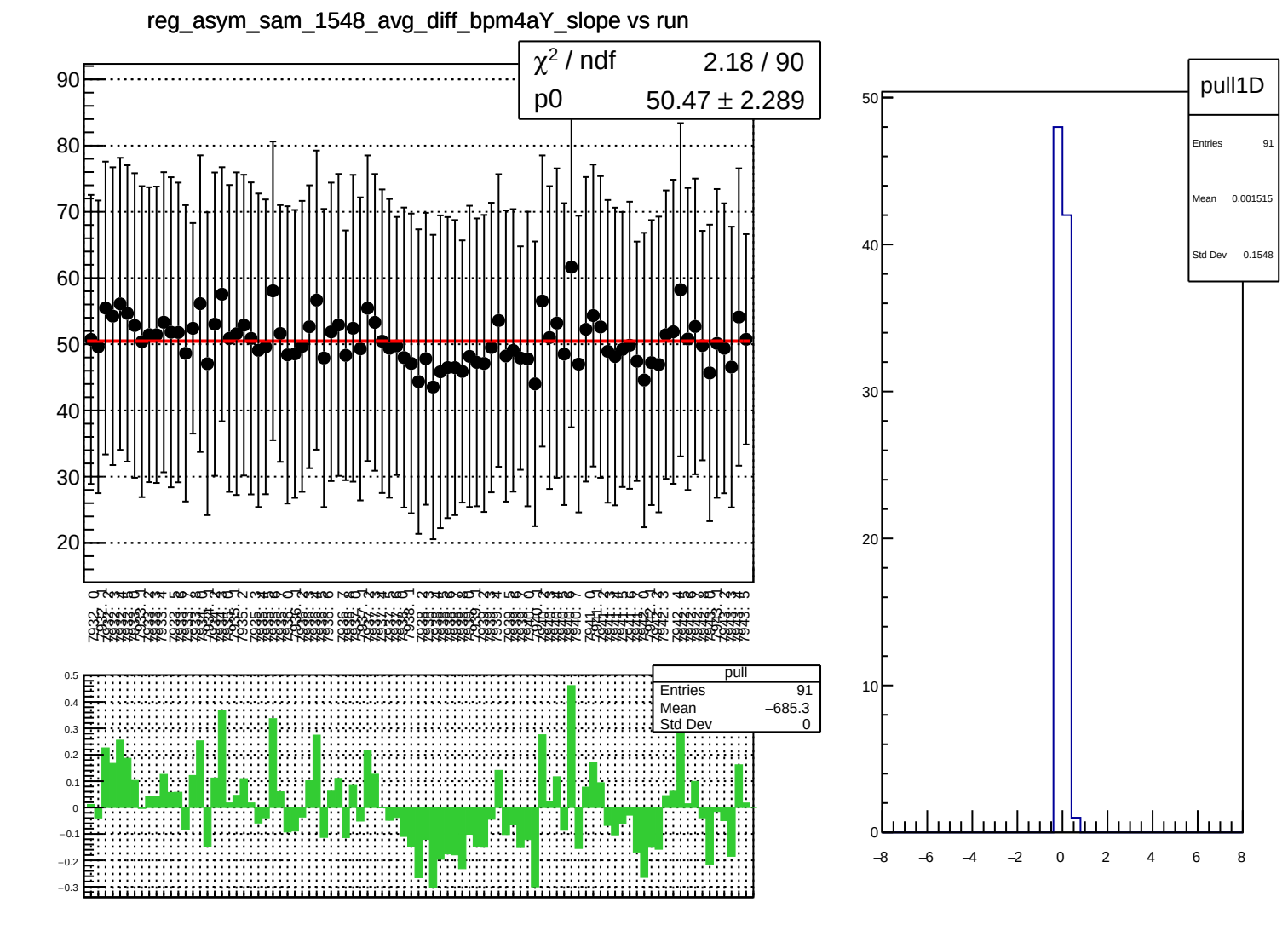

pull1D
Entries 91
Mean −0.003931
Std Dev 0.2405

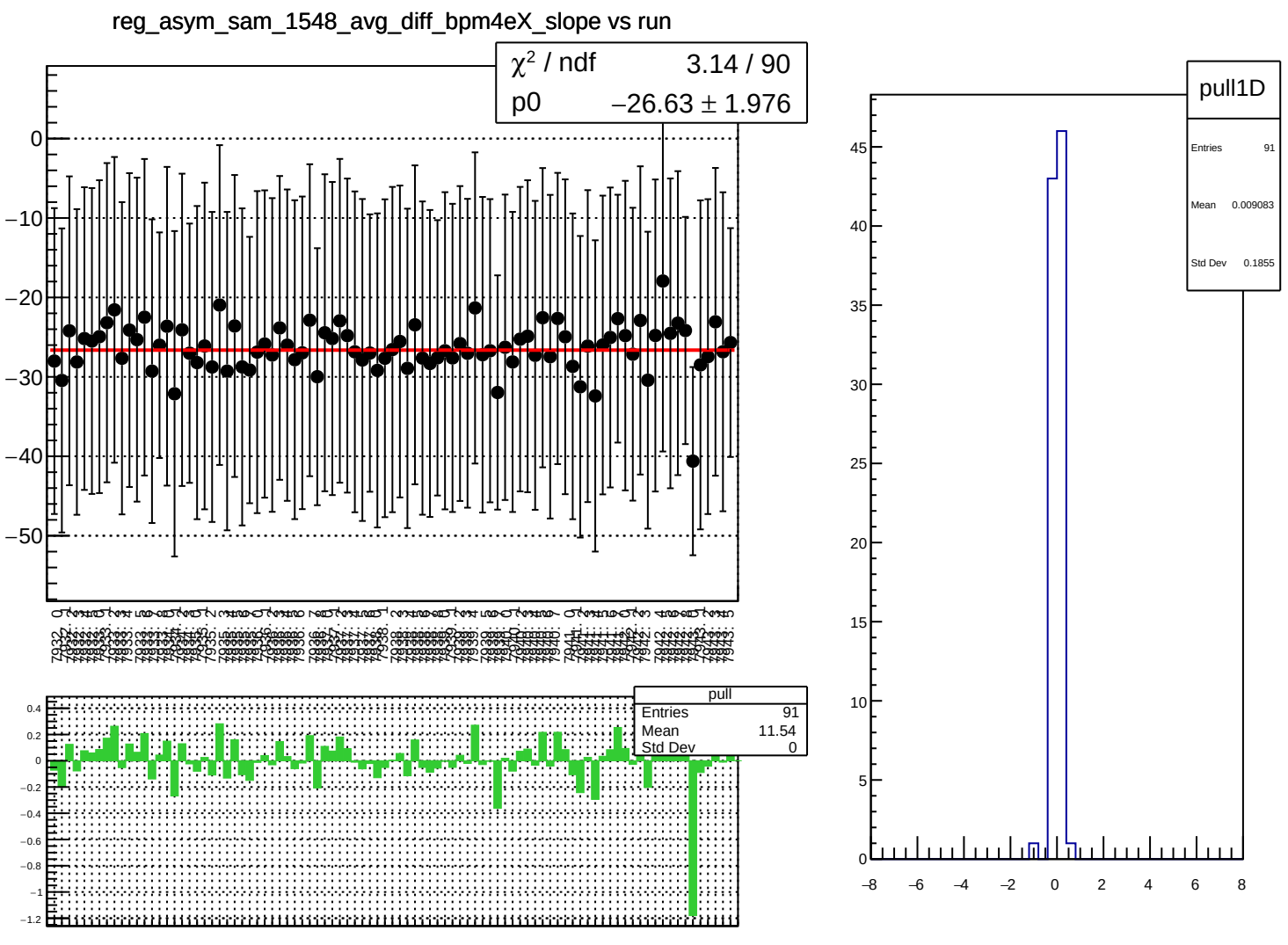

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.124 / 90
p0 16.22 ± 0.8224
pull
Entries 91
Mean −354.7
Std Dev 0
pull1D
Entries 91
Mean −0.002634
Std Dev 0.1853

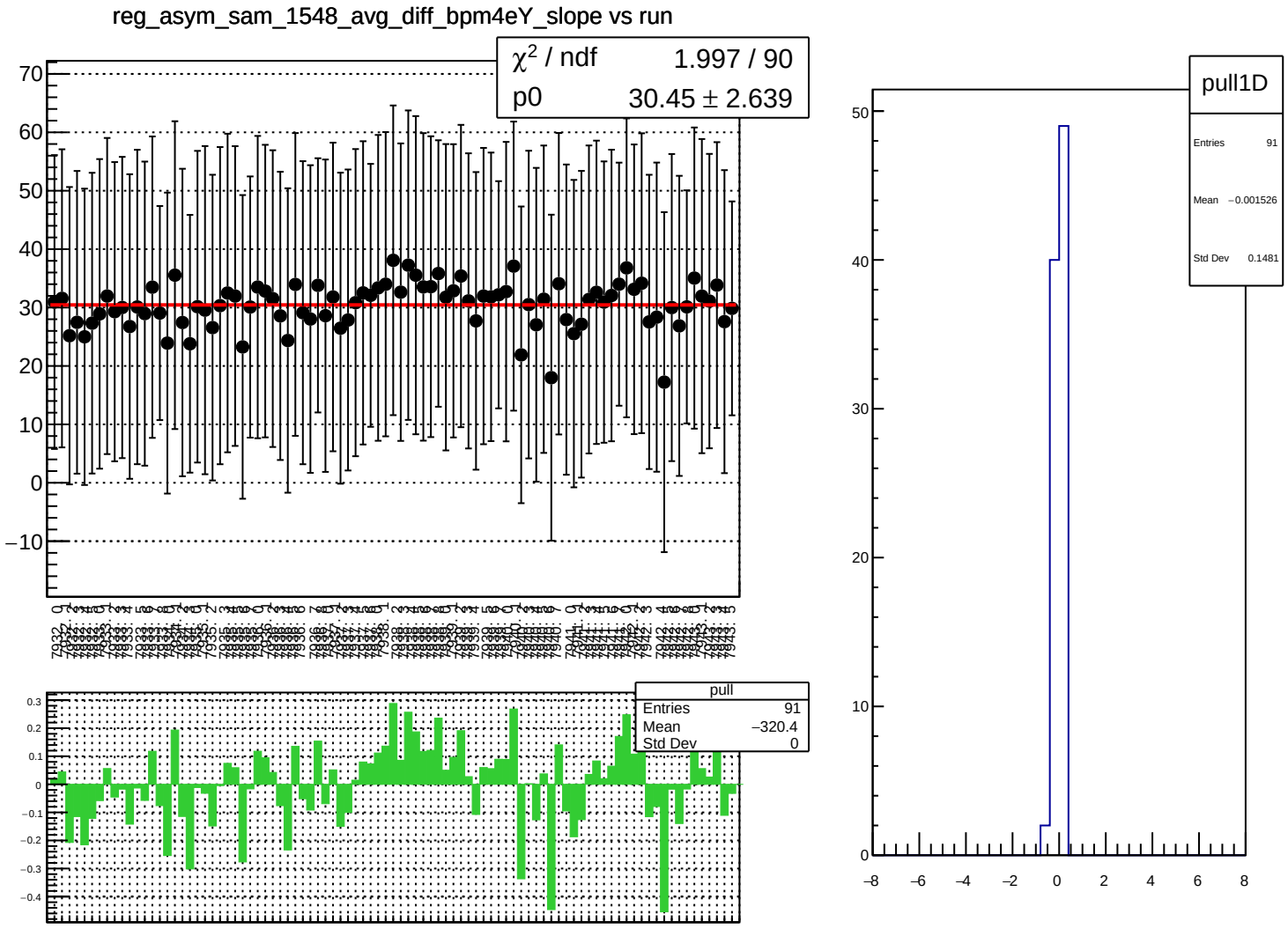

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.343 / 90
p0 −18.52 ± 1.099
pull
Entries 91
Mean −474.4
Std Dev 0
pull1D
Entries 91
Mean 0.002552
Std Dev 0.1916

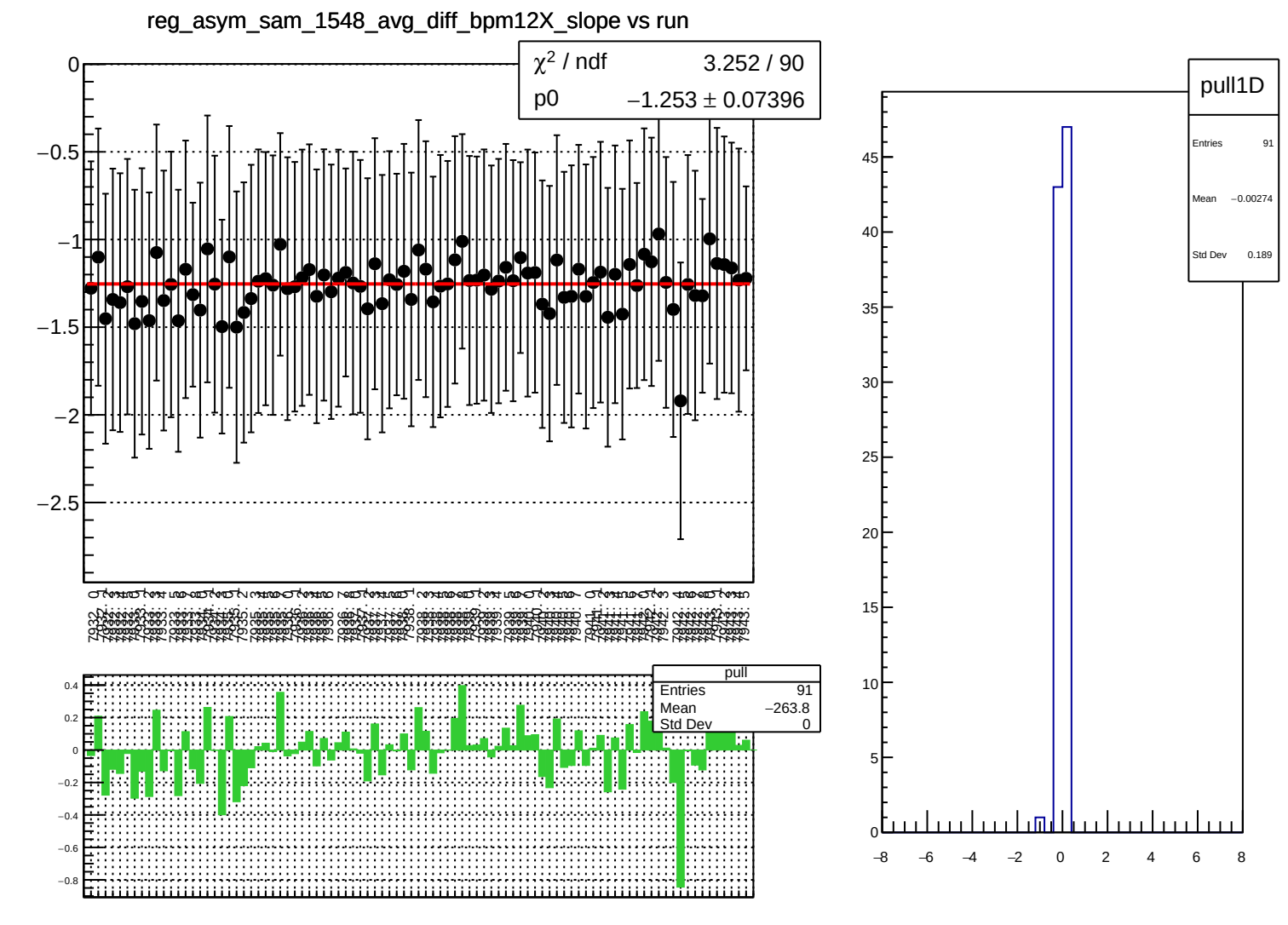

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.034 / 90
p0 1.462 ± 0.03079
pull
Entries 91
Mean −395.5
Std Dev 0
pull1D
Entries 91
Mean 0.003671
Std Dev 0.2105

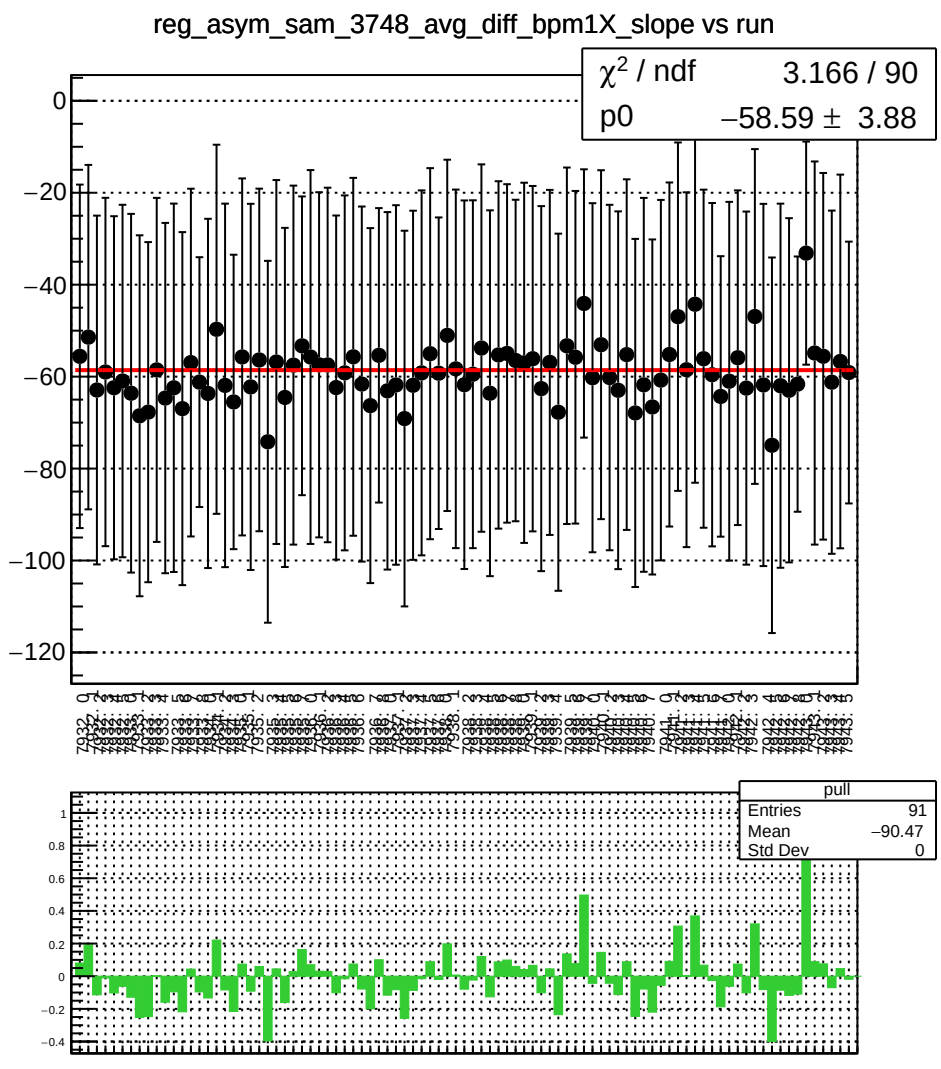

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.51 / 90
p0 −34.62 ± 2.196
pull
Entries 91
Mean −72.28
Std Dev 0
pull1D
Entries 91
Mean −0.009914
Std Dev 0.1962

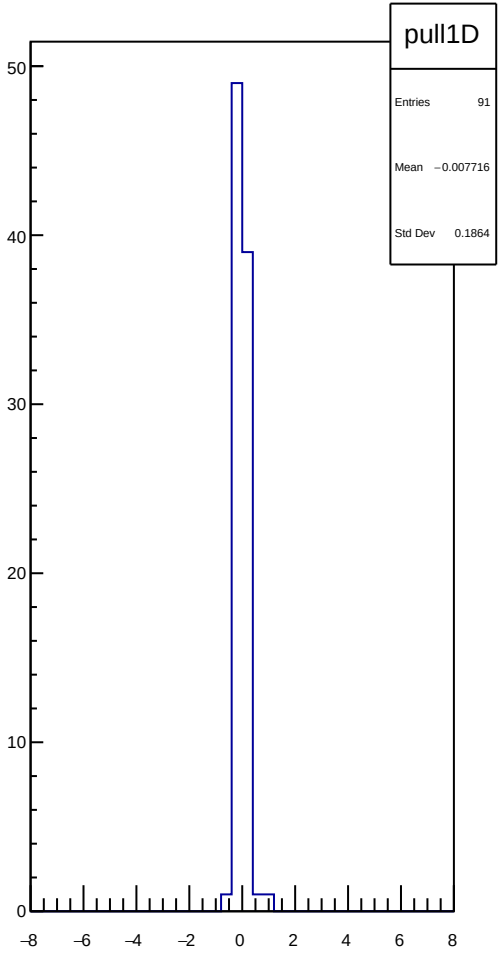

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.18 / 90
p0 50.47 ± 2.289
pull
Entries 91
Mean −685.3
Std Dev 0
pull1D
Entries 91
Mean 0.001515
Std Dev 0.1548

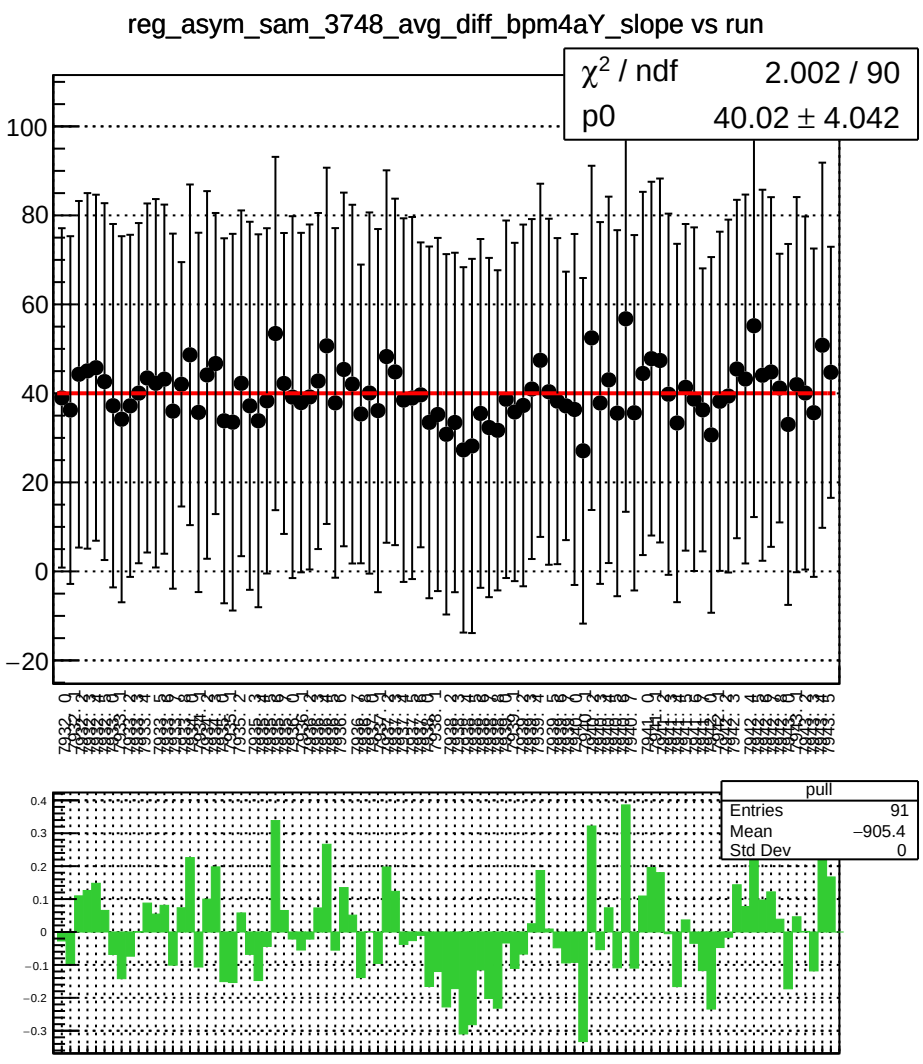

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.14 / 90
p0 −26.63 ± 1.976
pull
Entries 91
Mean 11.54
Std Dev 0
pull1D
Entries 91
Mean 0.009083
Std Dev 0.1855

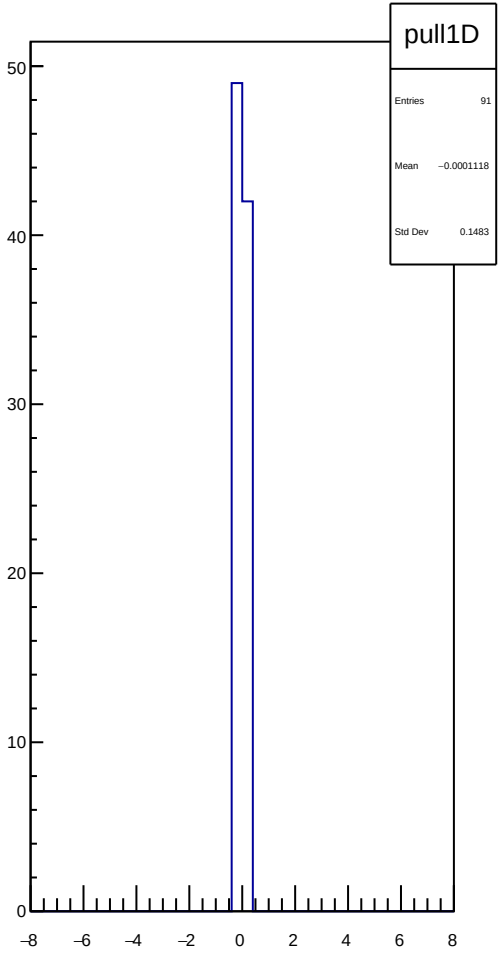

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.997 / 90
p0 30.45 ± 2.639
pull
Entries 91
Mean −320.4
Std Dev 0
pull1D
Entries 91
Mean −0.001526
Std Dev 0.1481

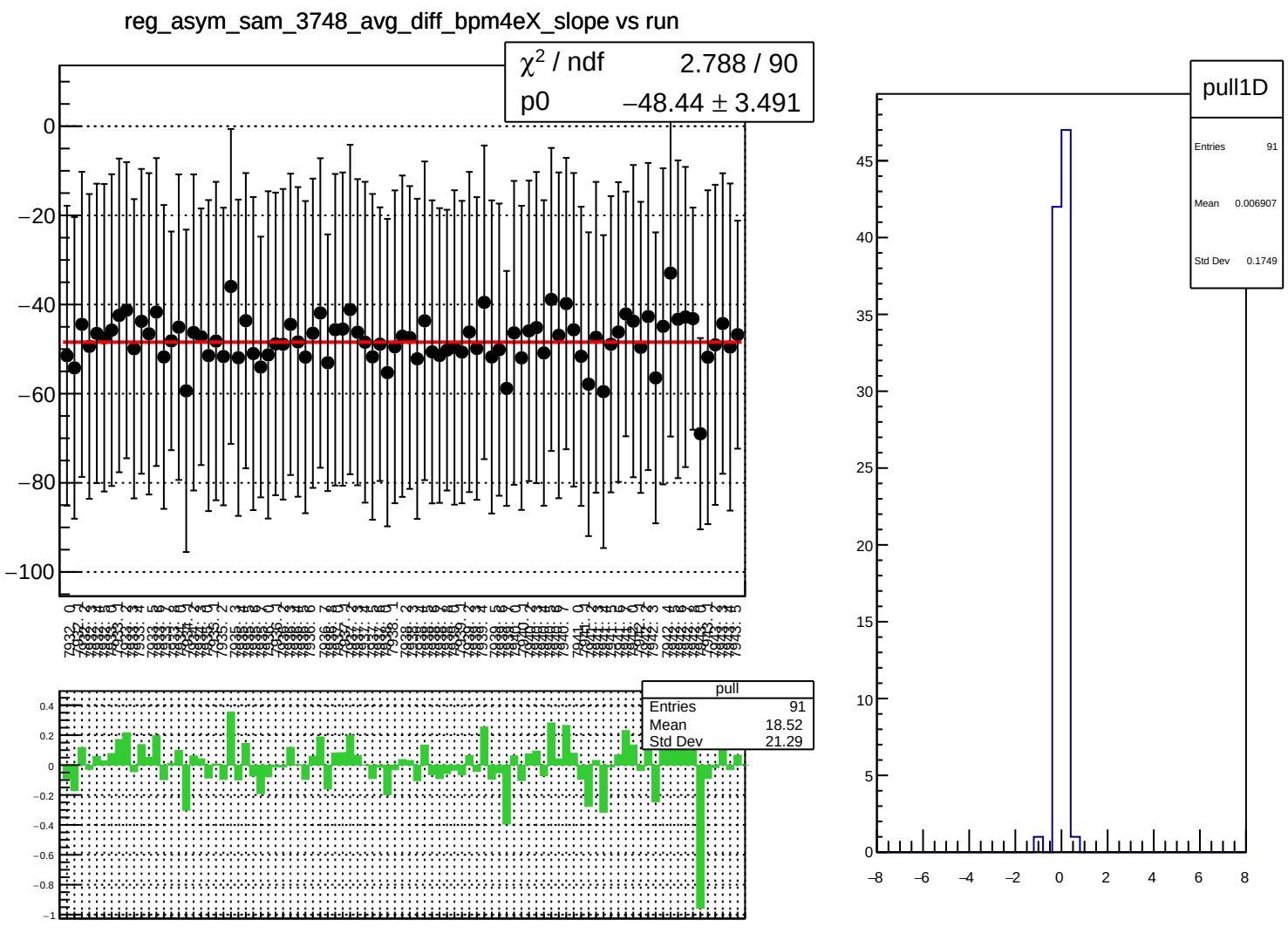

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 3.252 / 90
p0 −1.253 ± 0.07396
pull
Entries 91
Mean −263.8
Std Dev 0
pull1D
Entries 91
Mean −0.00274
Std Dev 0.189

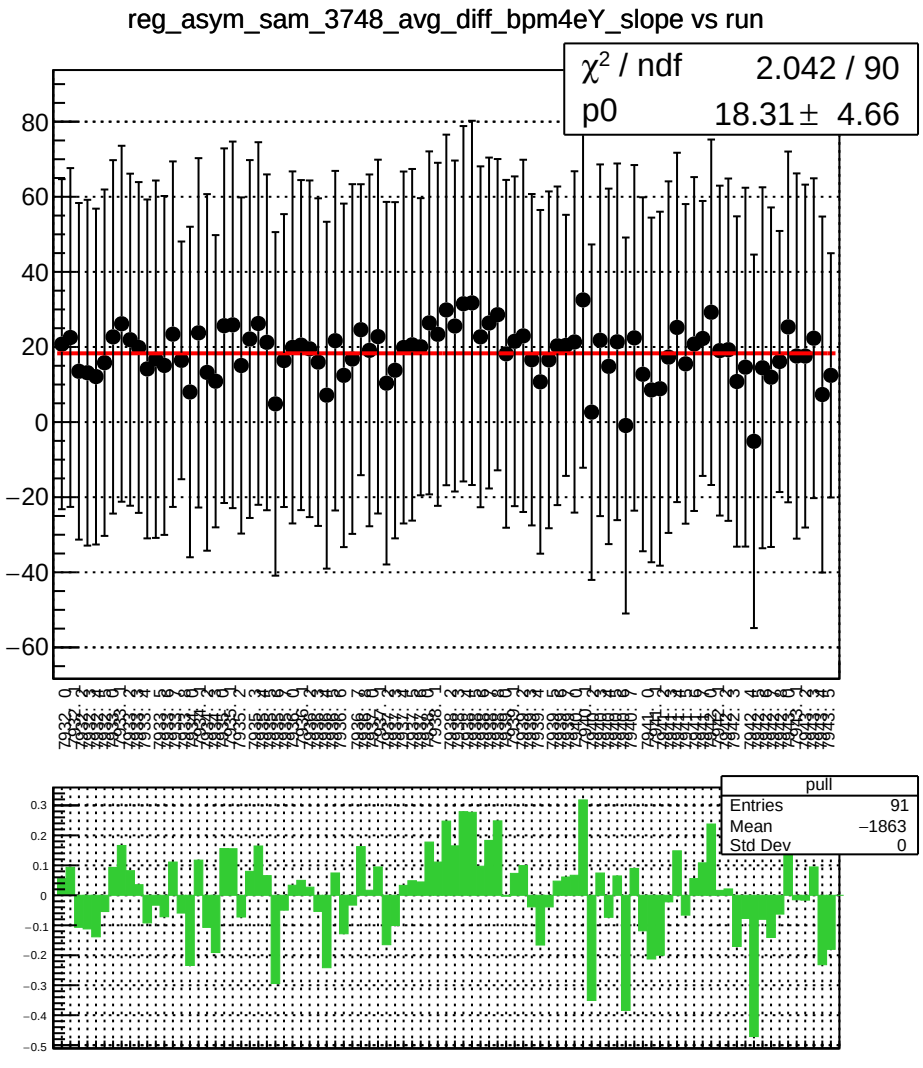

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 3.166 / 90
p0 −58.59 ± 3.88
pull
Entries 91
Mean −90.47
Std Dev 0

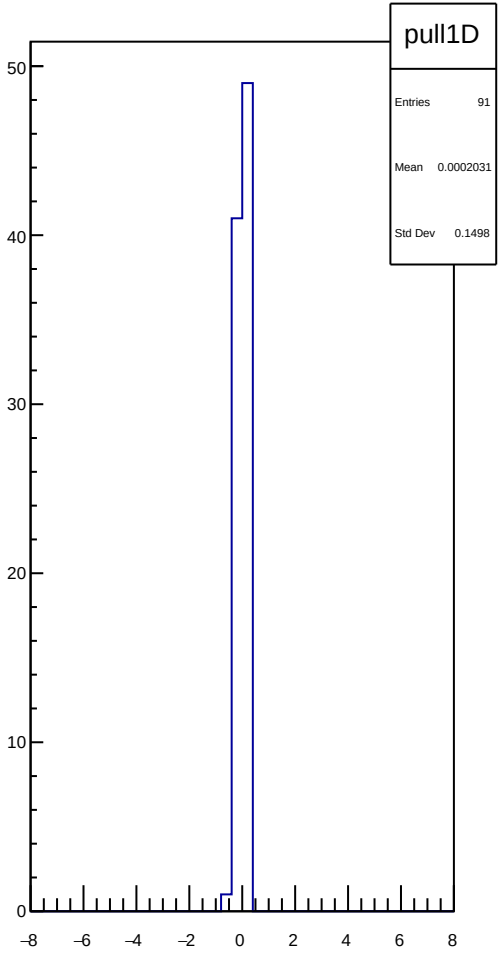

pull1D
Entries 91
Mean −0.007716
Std Dev 0.1864

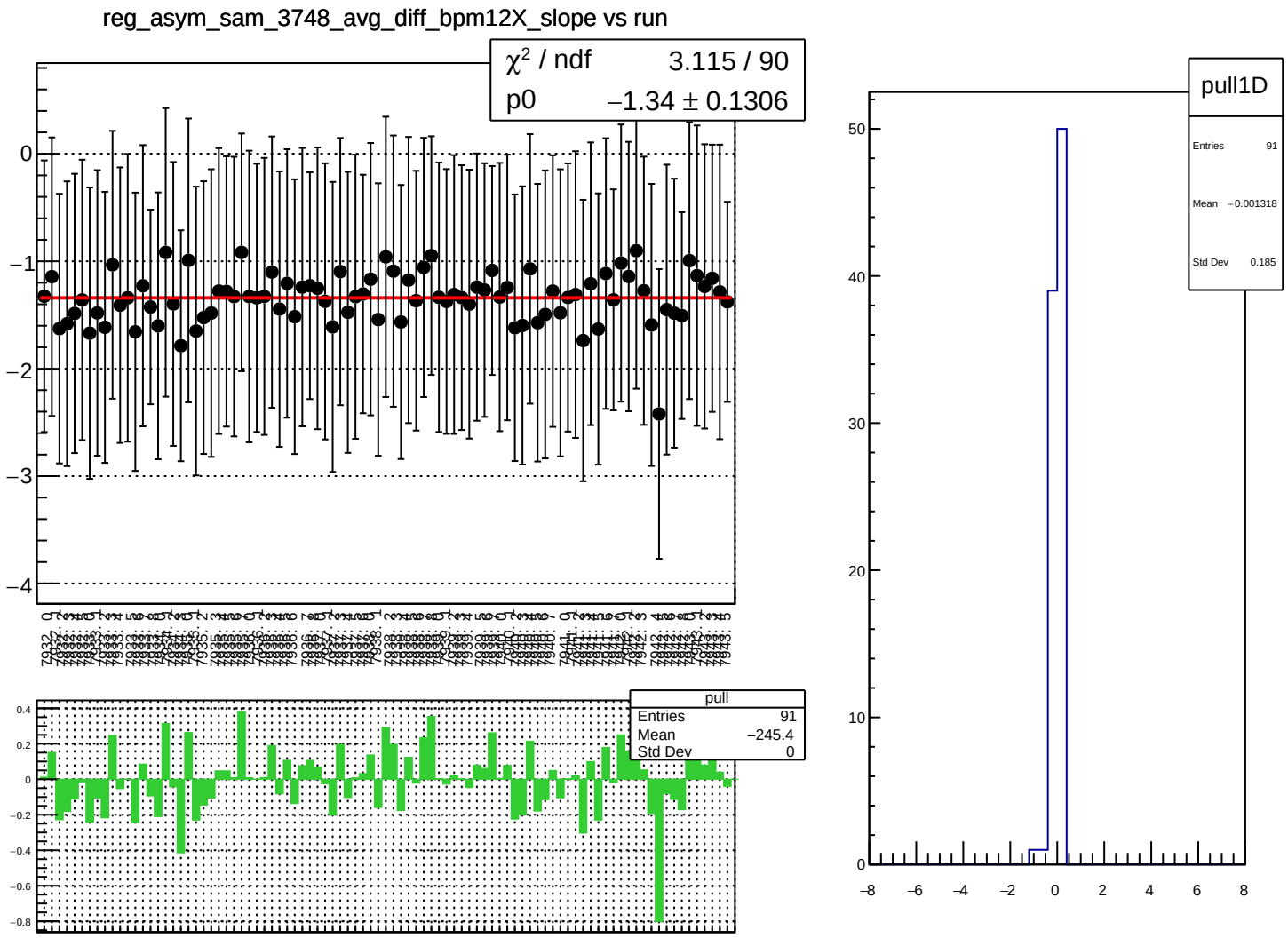

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.002 / 90
p0 40.02 ± 4.042
pull
Entries 91
Mean −905.4
Std Dev 0

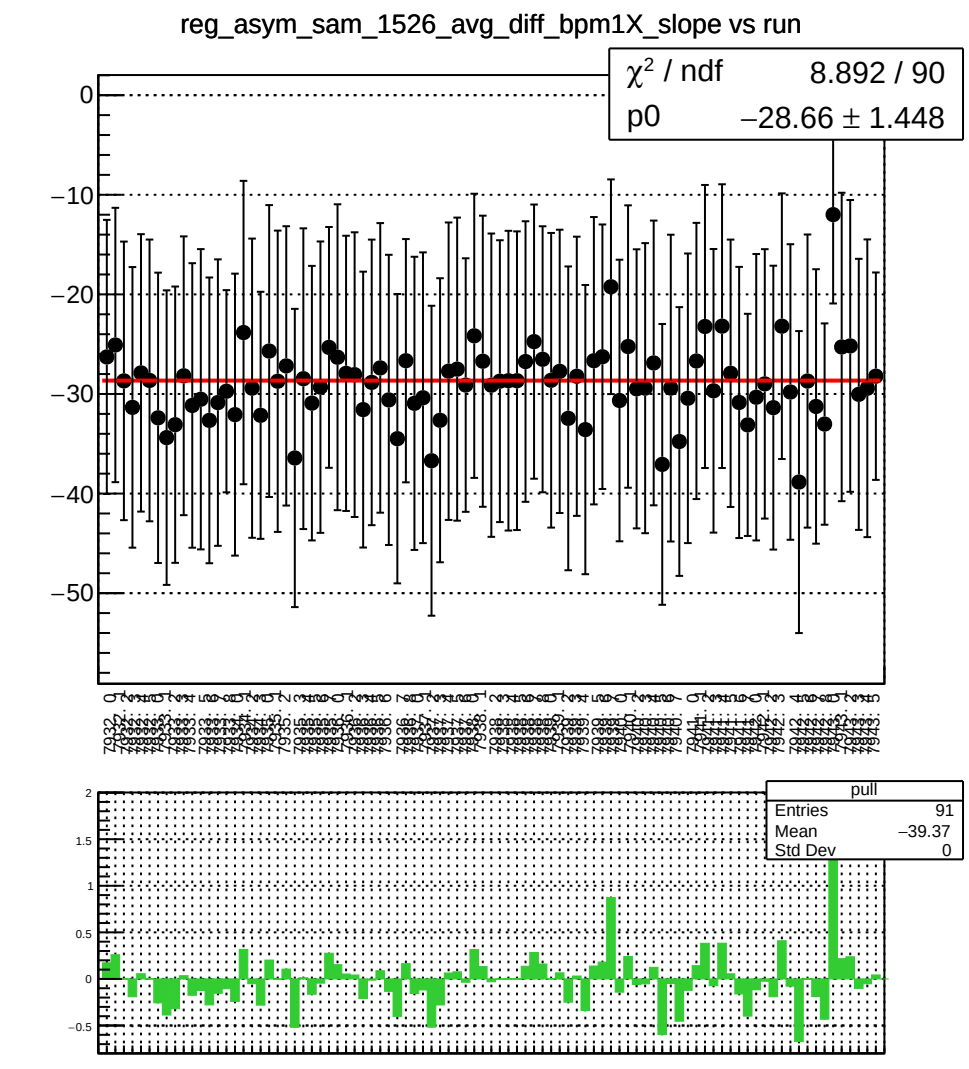

pull1D
Entries 91
Mean −0.0001118
Std Dev 0.1483

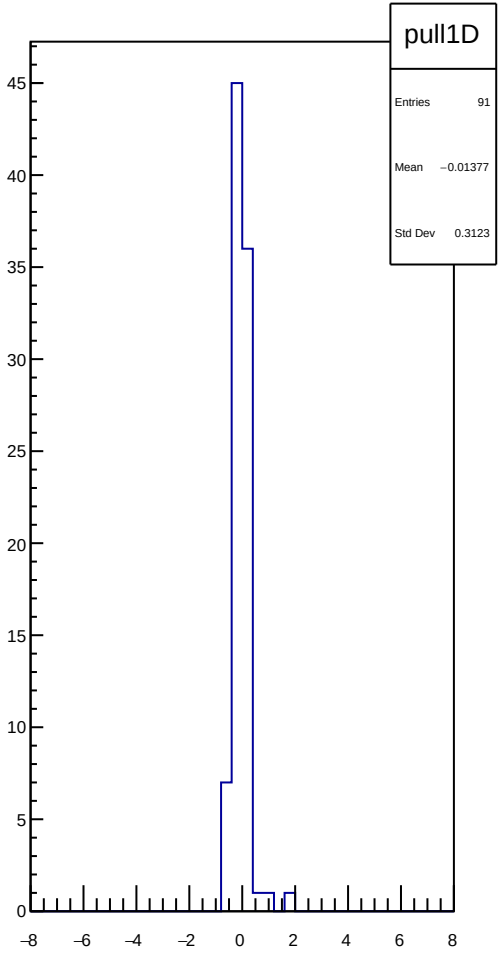

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.788 / 90
p0 −48.44 ± 3.491
pull
Entries 91
Mean 18.52
Std Dev 21.29
pull1D
Entries 91
Mean 0.006907
Std Dev 0.1749

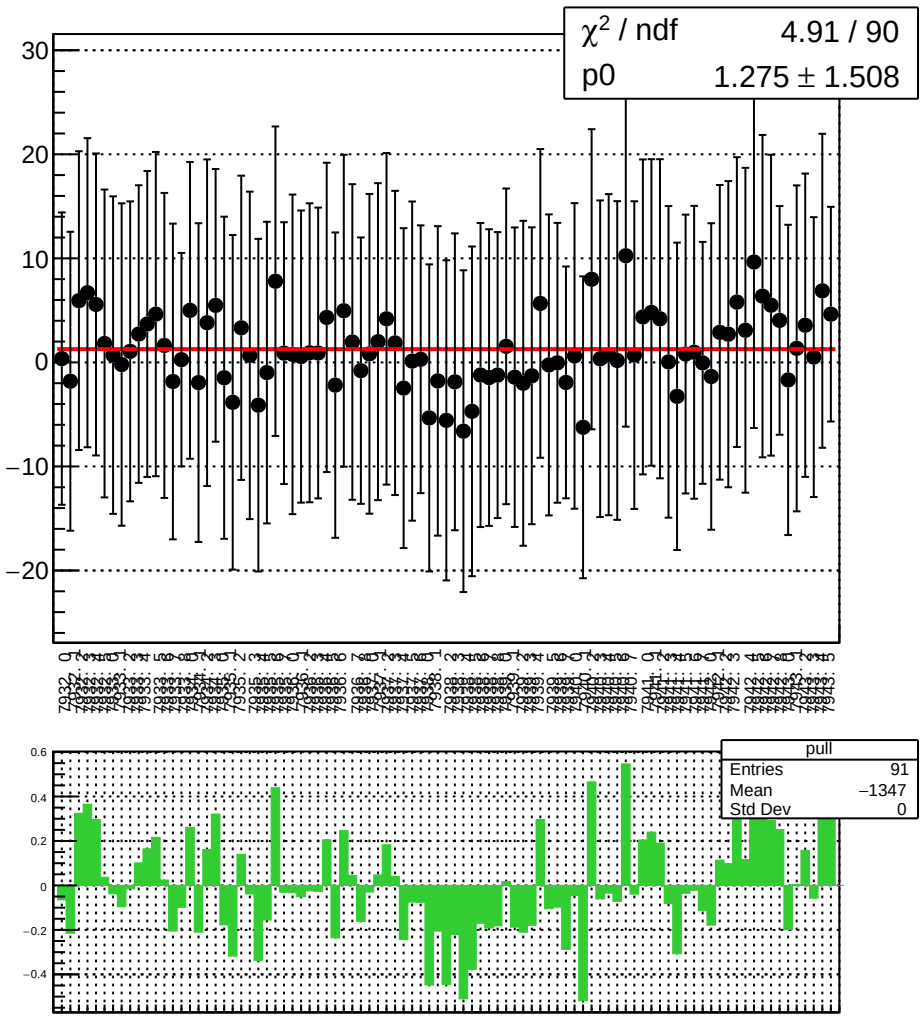

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.042 / 90
p0 18.31 ± 4.66
pull
Entries 91
Mean −1863
Std Dev 0

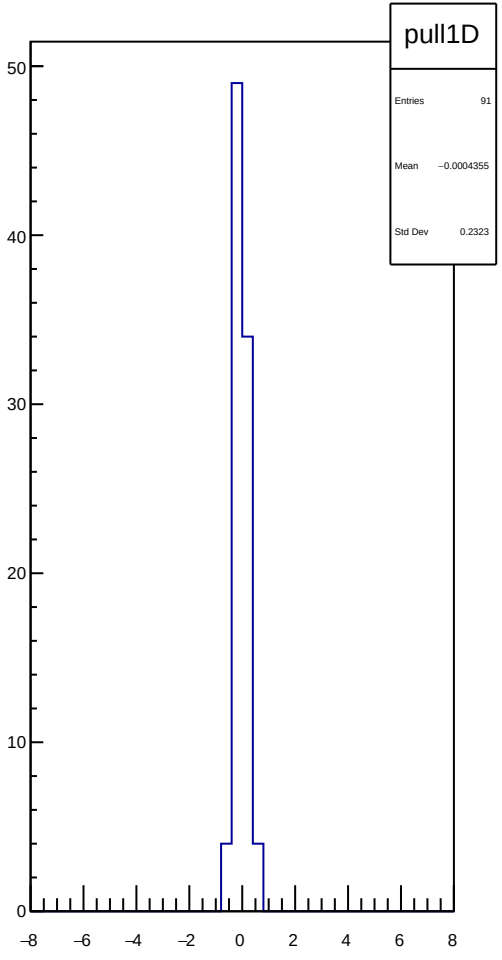

pull1D
Entries 91
Mean 0.0002031
Std Dev 0.1498

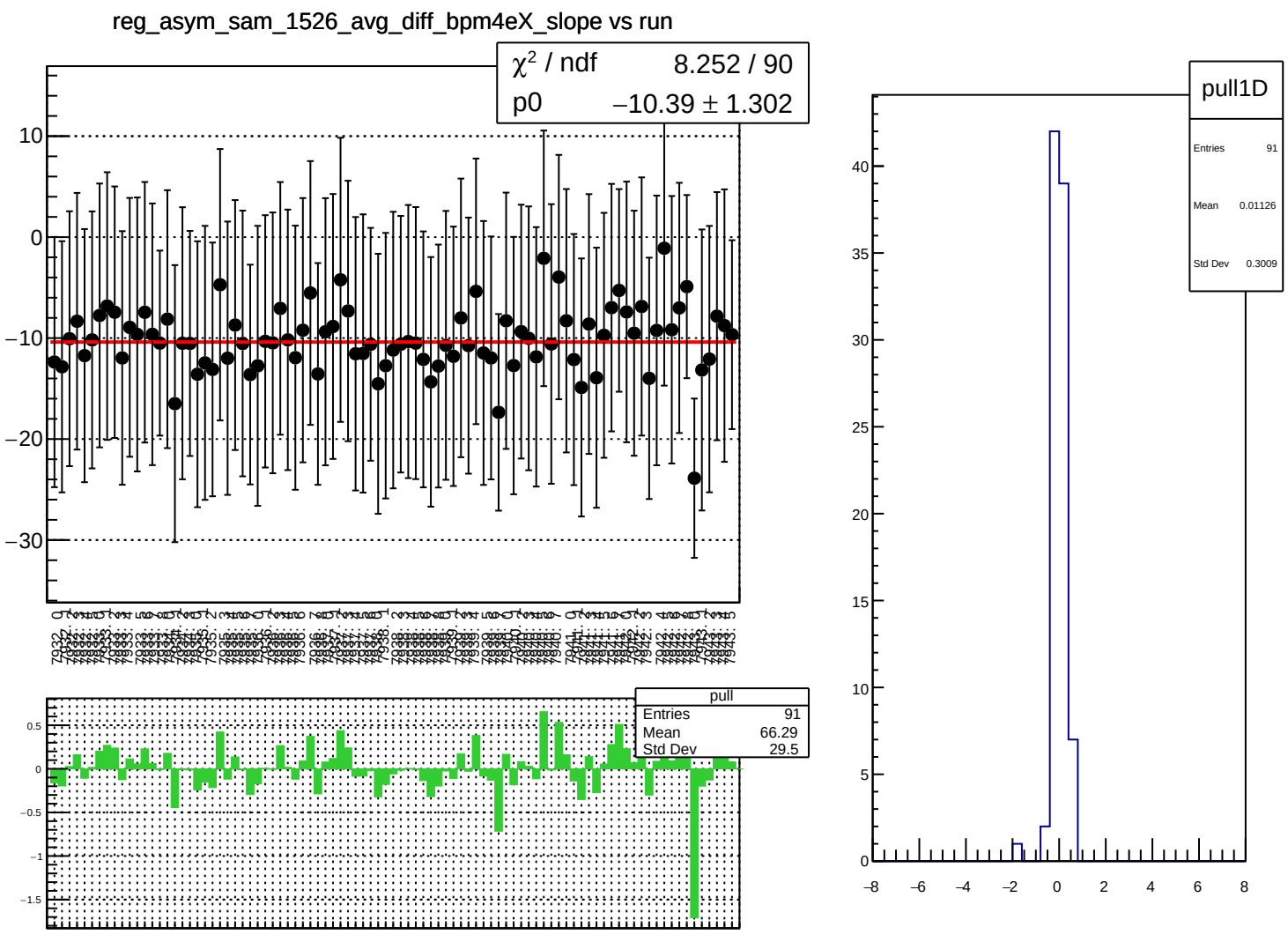

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.115 / 90
p0 −1.34 ± 0.1306
pull
Entries 91
Mean −245.4
Std Dev 0
pull1D
Entries 91
Mean −0.001318
Std Dev 0.185

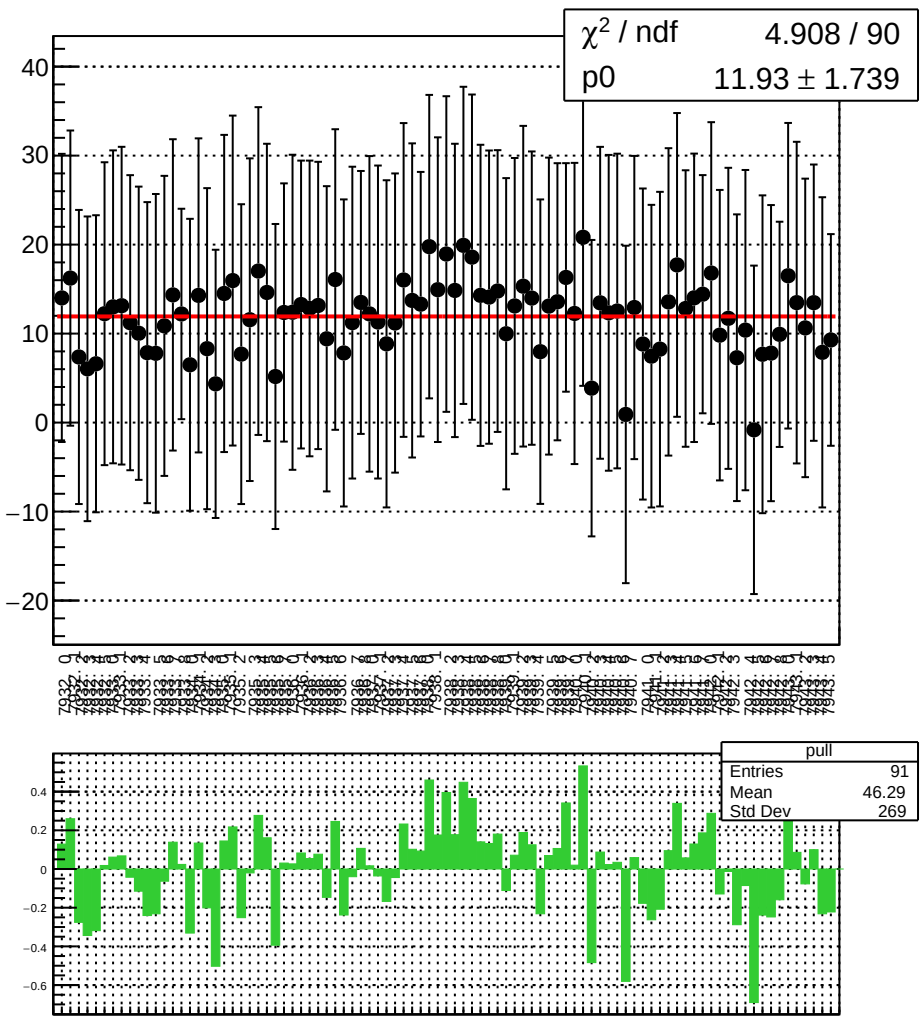

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 8.892 / 90
p0 −28.66 ± 1.448
pull
Entries 91
Mean −39.37
Std Dev 0

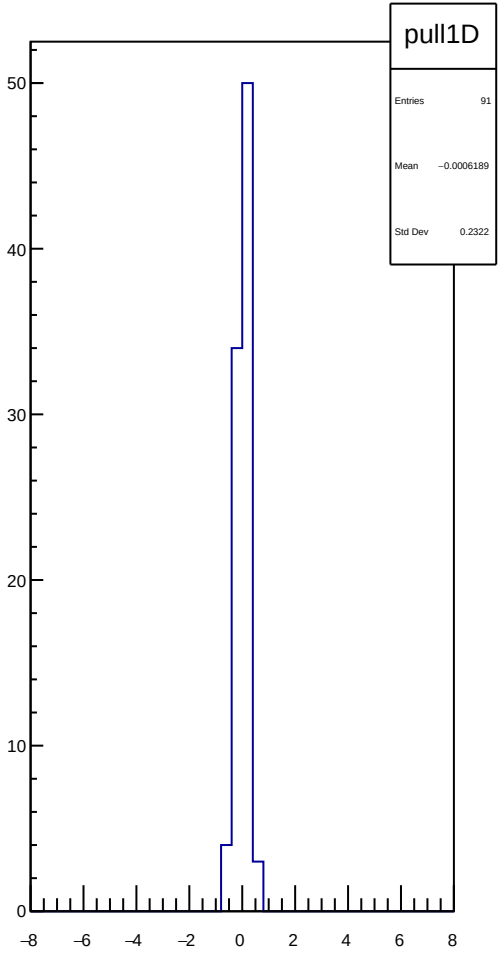

pull1D
Entries 91
Mean −0.01377
Std Dev 0.3123

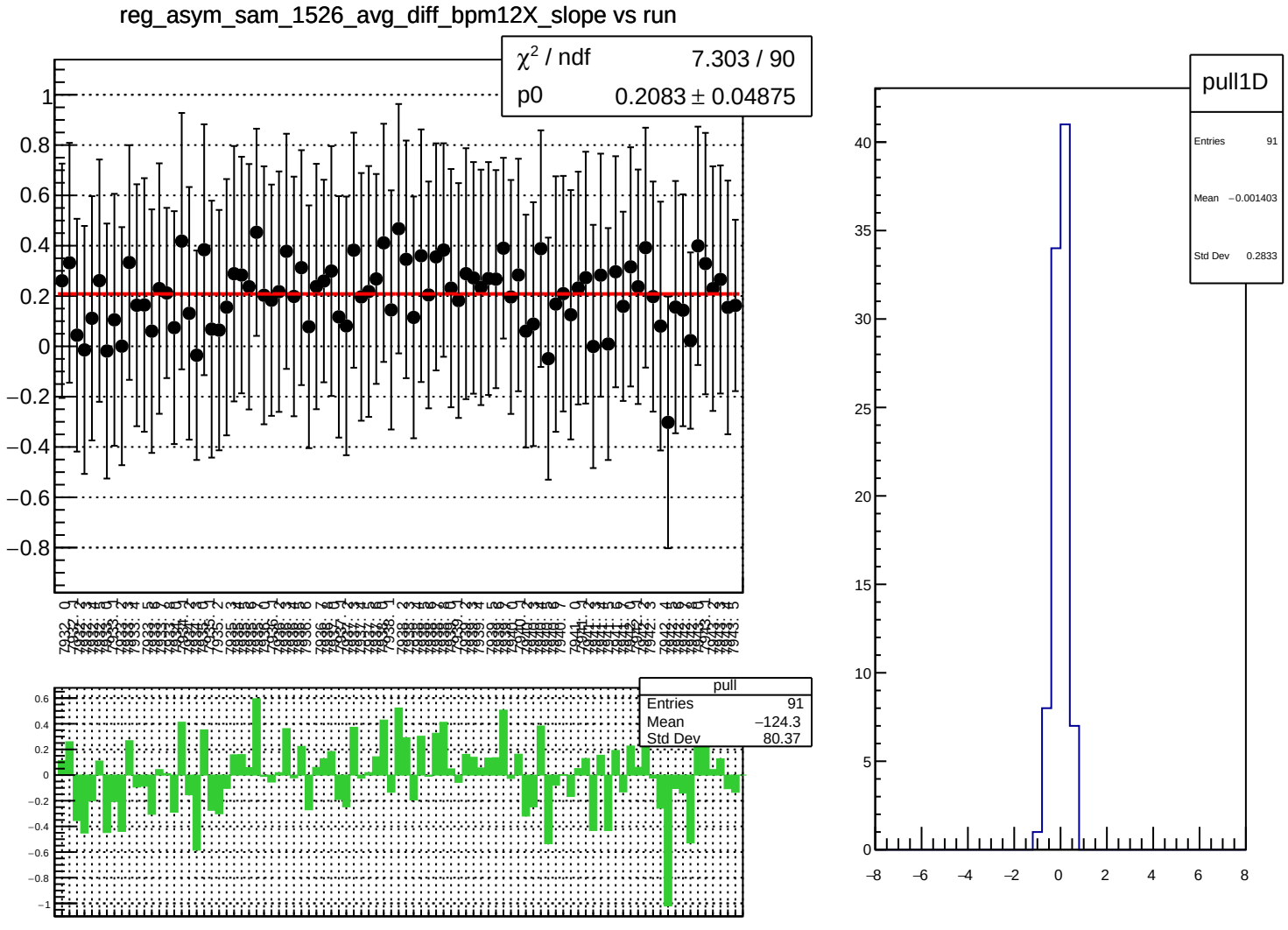

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.91 / 90
p0 1.275 ± 1.508
pull
Entries 91
Mean −1347
Std Dev 0

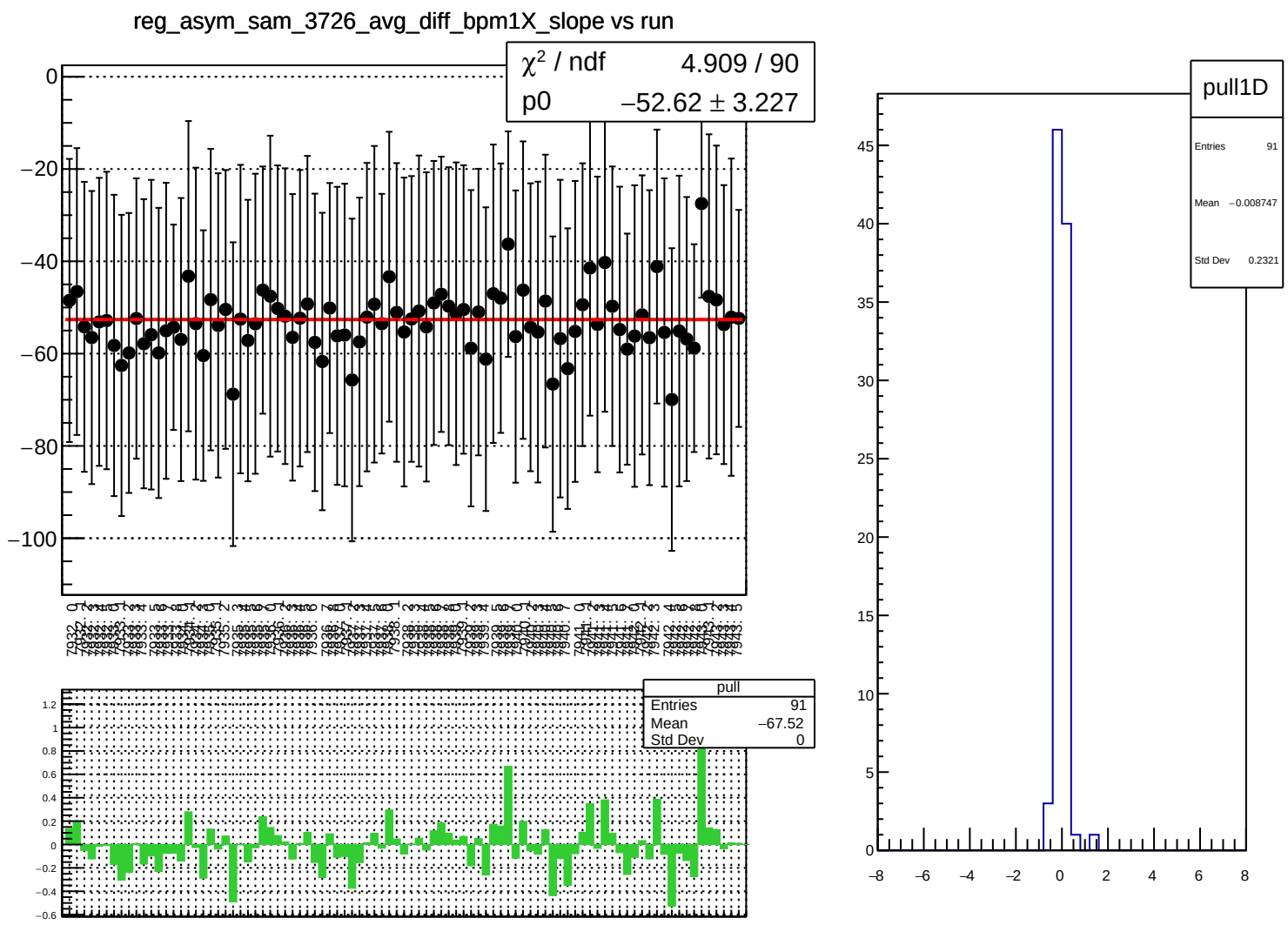

pull1D
Entries 91
Mean −0.0004355
Std Dev 0.2323

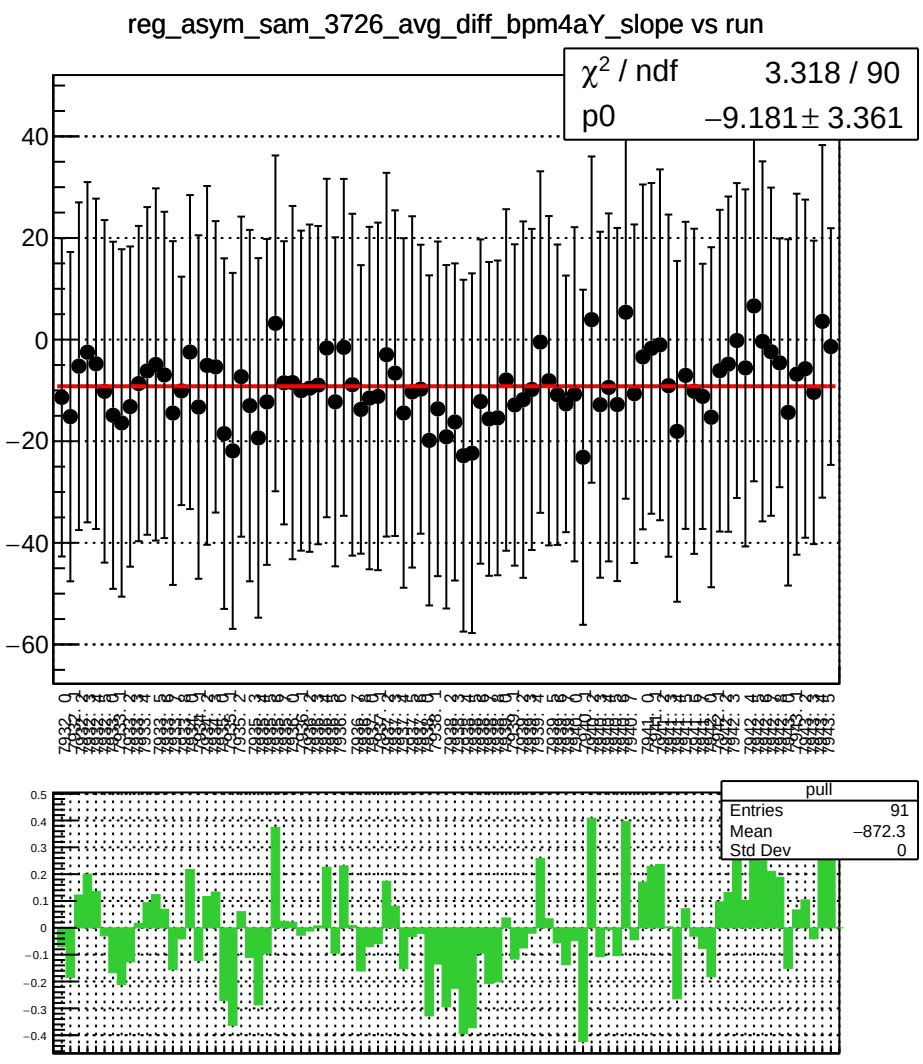

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.252 / 90
p0 −10.39 ± 1.302
10
0
−10
−20
−30
pull
Entries 91
Mean 66.29
Std Dev 29.5
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01126
Std Dev 0.3009
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

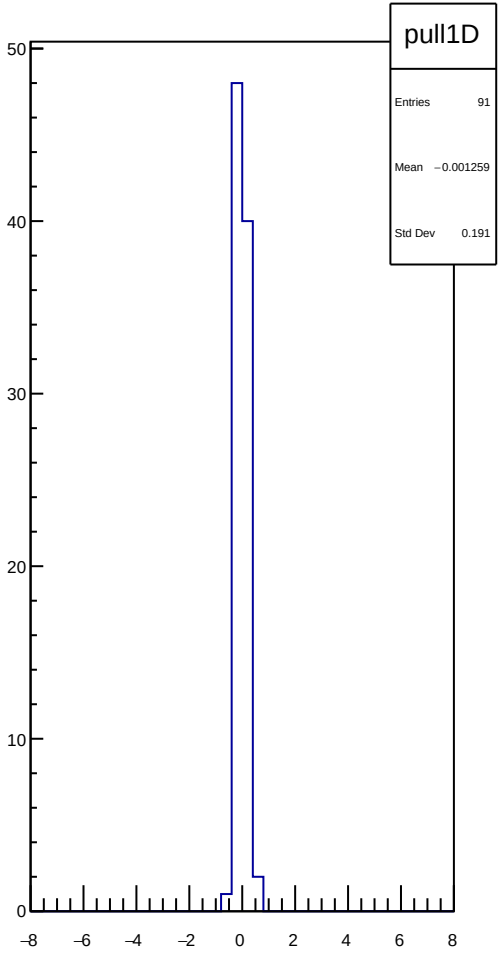

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.908 / 90
p0 11.93 ± 1.739
pull
Entries 91
Mean 46.29
Std Dev 269

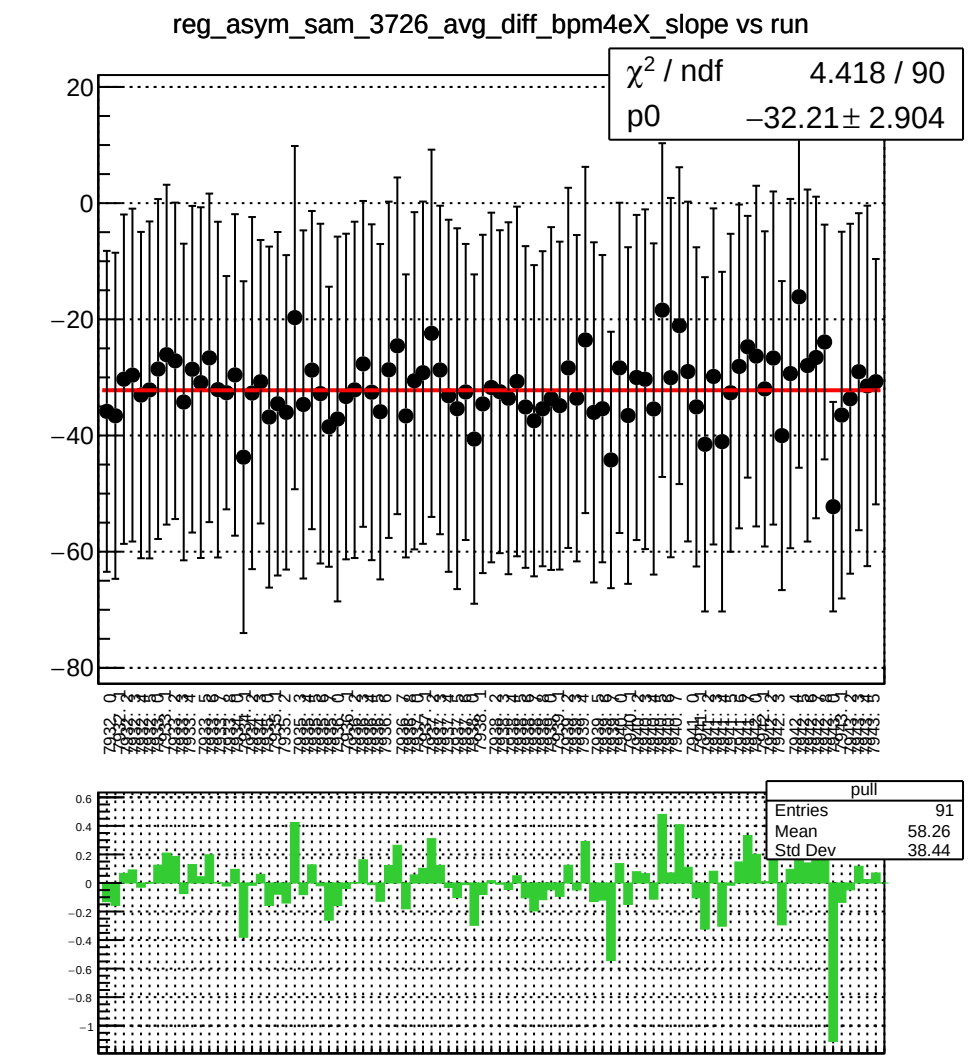

pull1D
Entries 91
Mean −0.0006189
Std Dev 0.2322

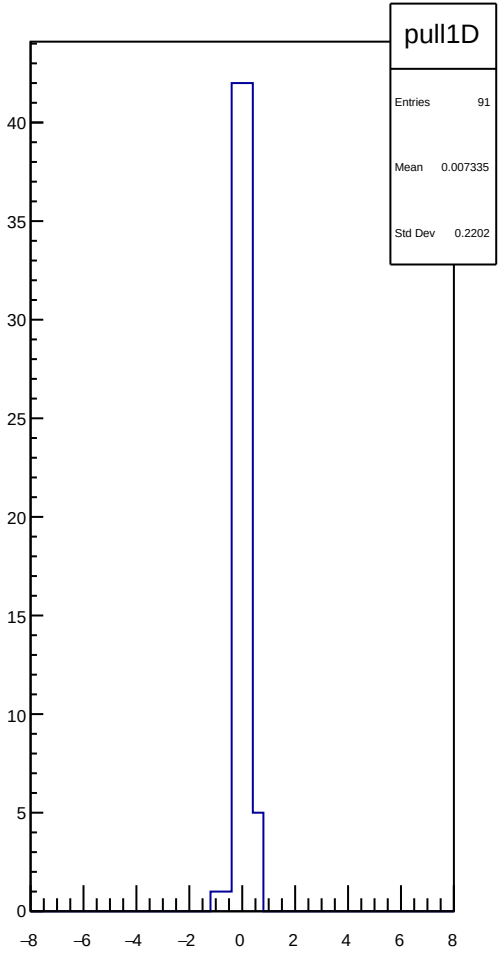

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 7.303 / 90
p0 0.2083 ± 0.04875
pull
Entries 91
Mean −124.3
Std Dev 80.37
pull1D
Entries 91
Mean −0.001403
Std Dev 0.2833

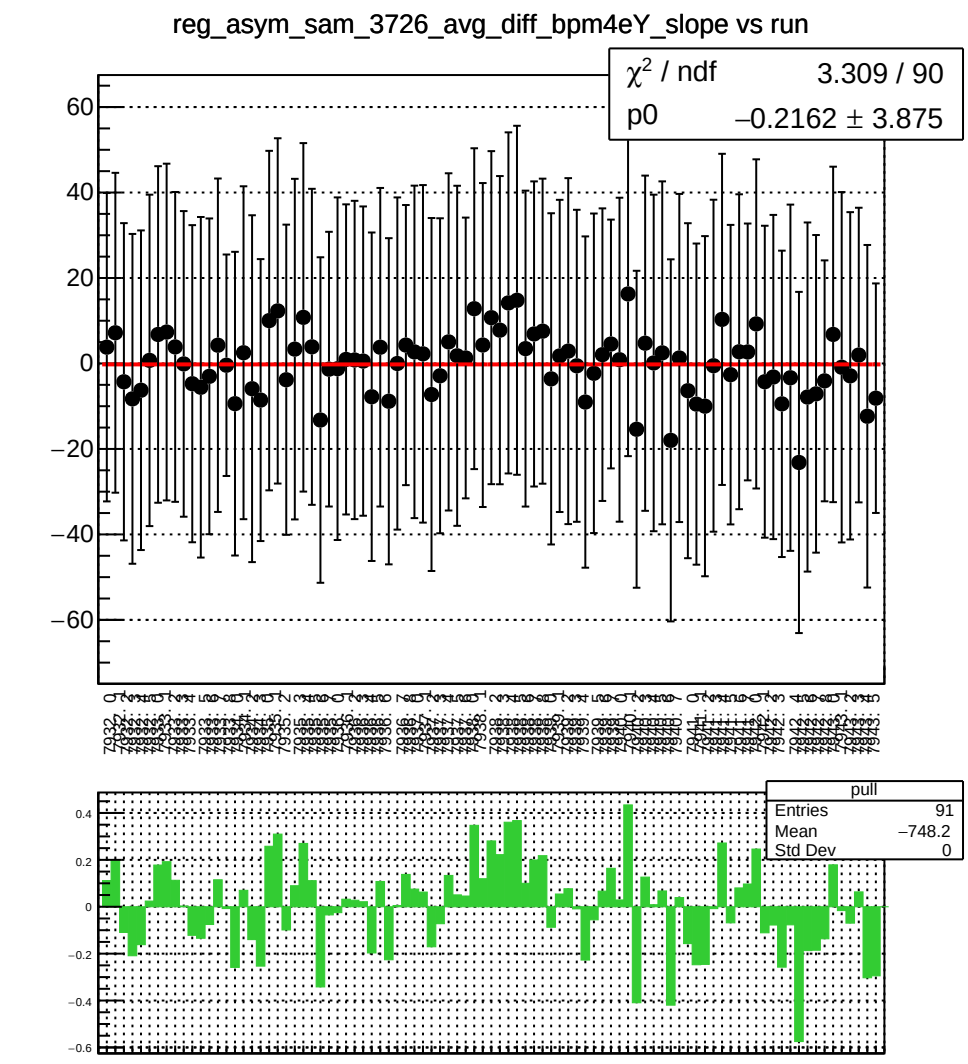

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 4.909 / 90
p0 −52.62 ± 3.227
pull
Entries 91
Mean −67.52
Std Dev 0
pull1D
Entries 91
Mean −0.008747
Std Dev 0.2321

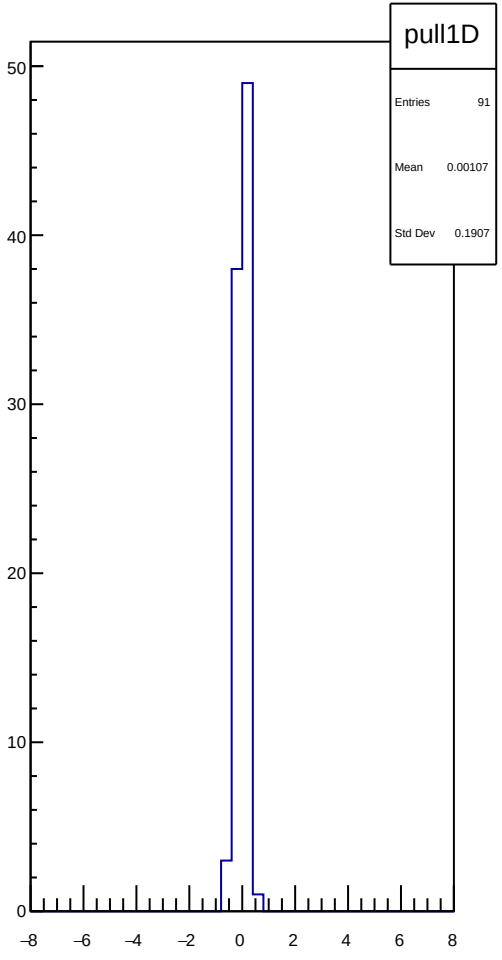

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.318 / 90
p0 −9.181 ± 3.361
pull
Entries 91
Mean −872.3
Std Dev 0

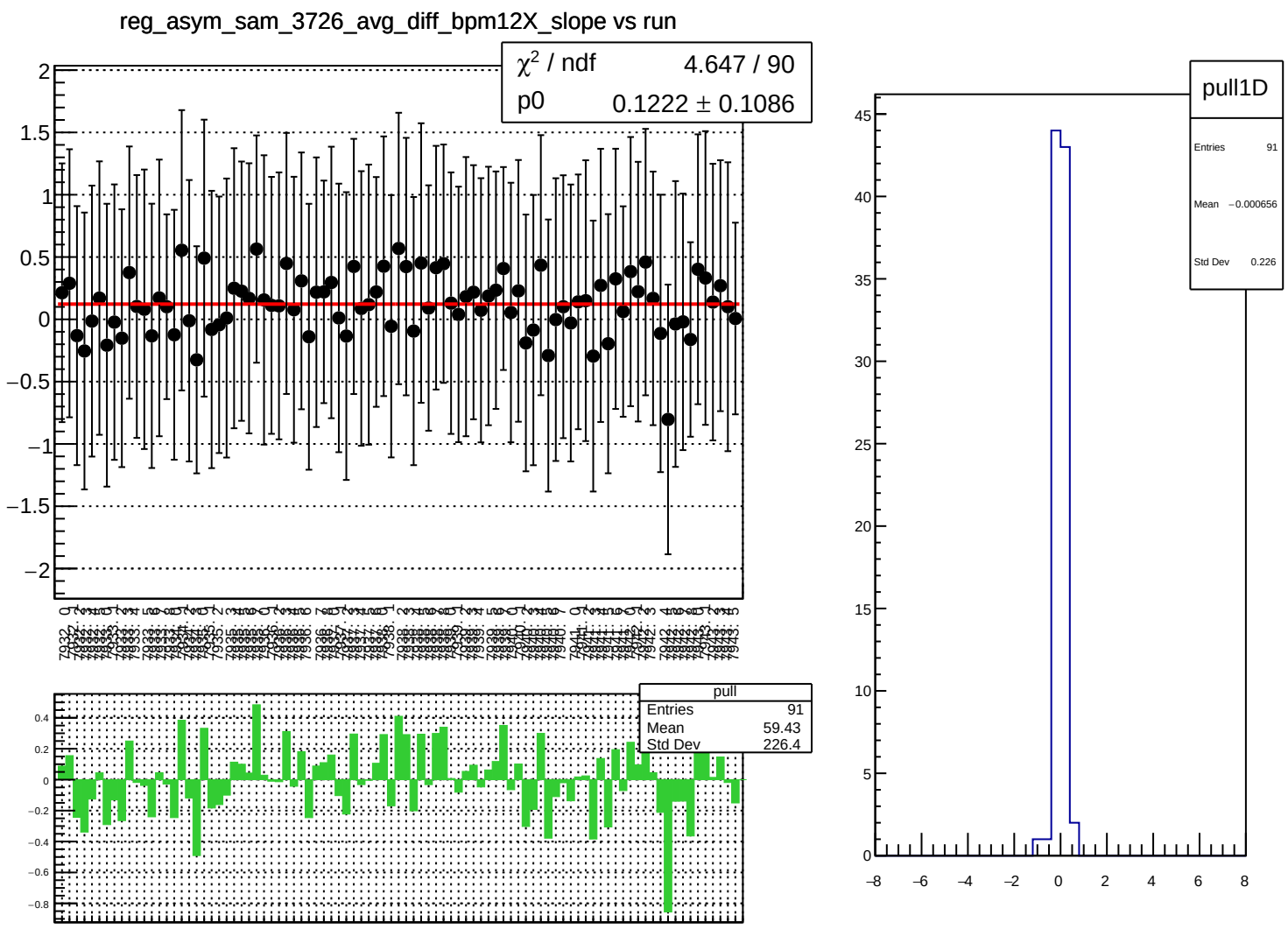

pull1D
Entries 91
Mean −0.001259
Std Dev 0.191

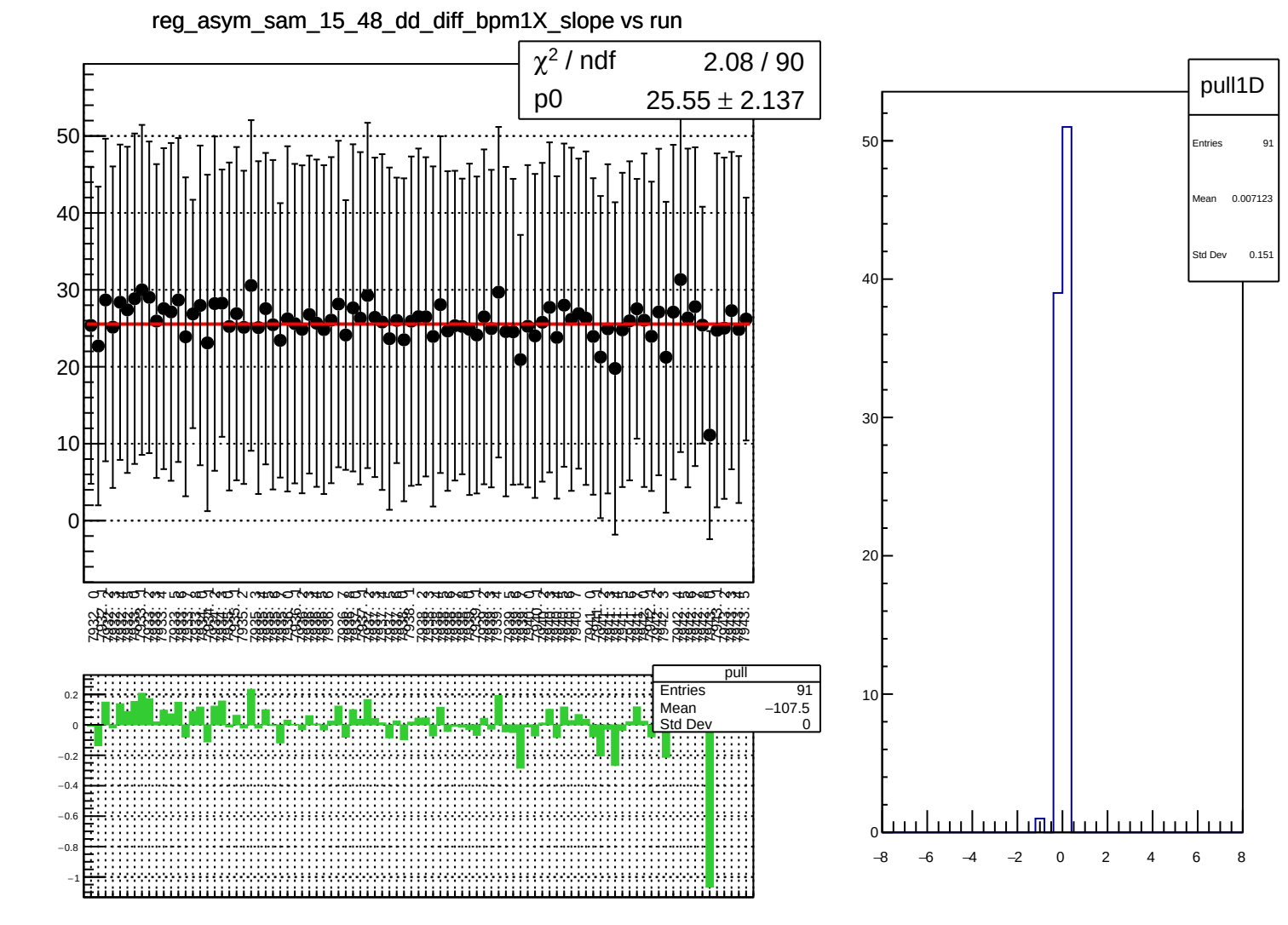

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.418 / 90
p0 −32.21± 2.904
pull
Entries 91
Mean 58.26
Std Dev 38.44

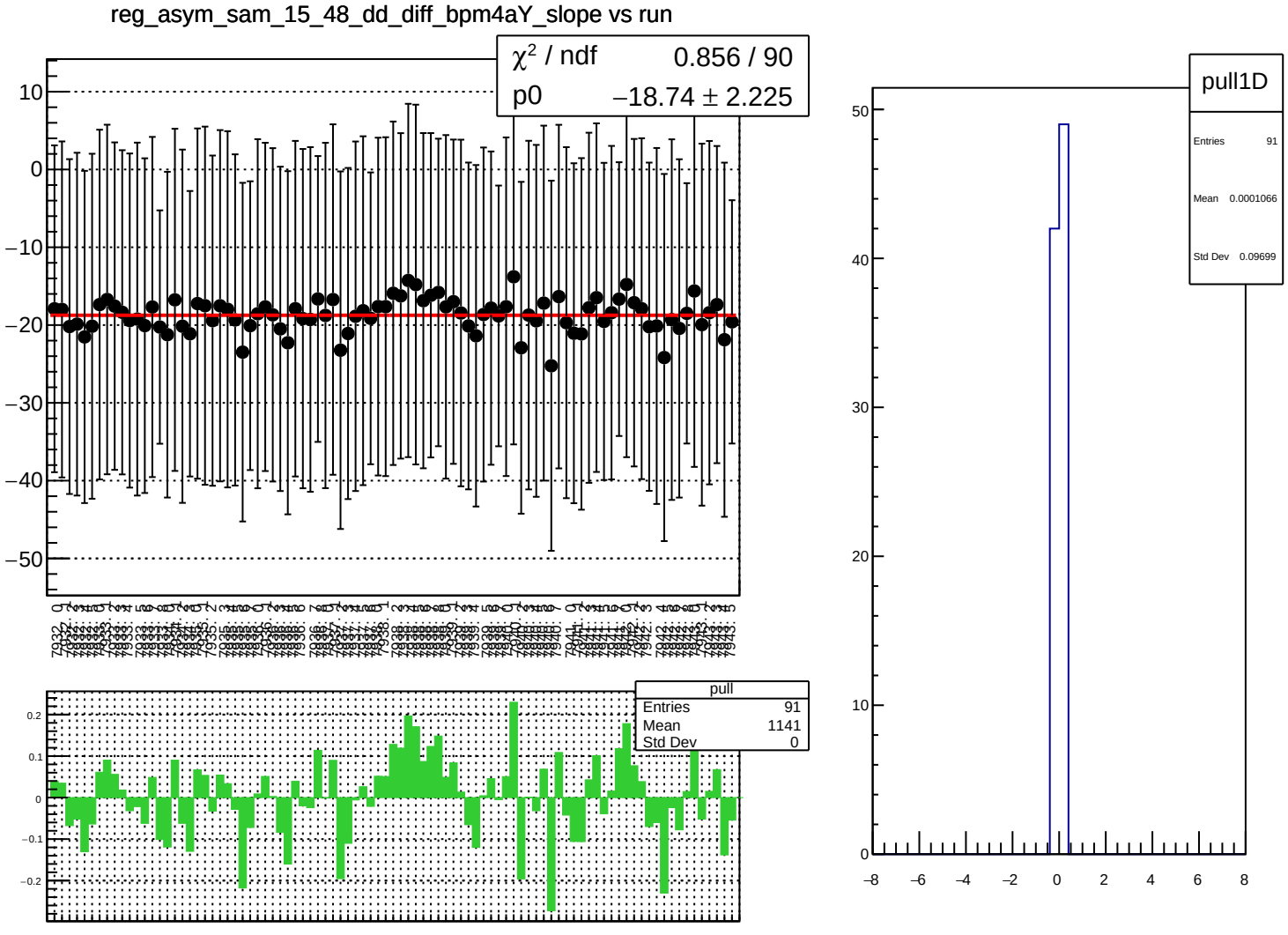

pull1D
Entries 91
Mean 0.007335
Std Dev 0.2202

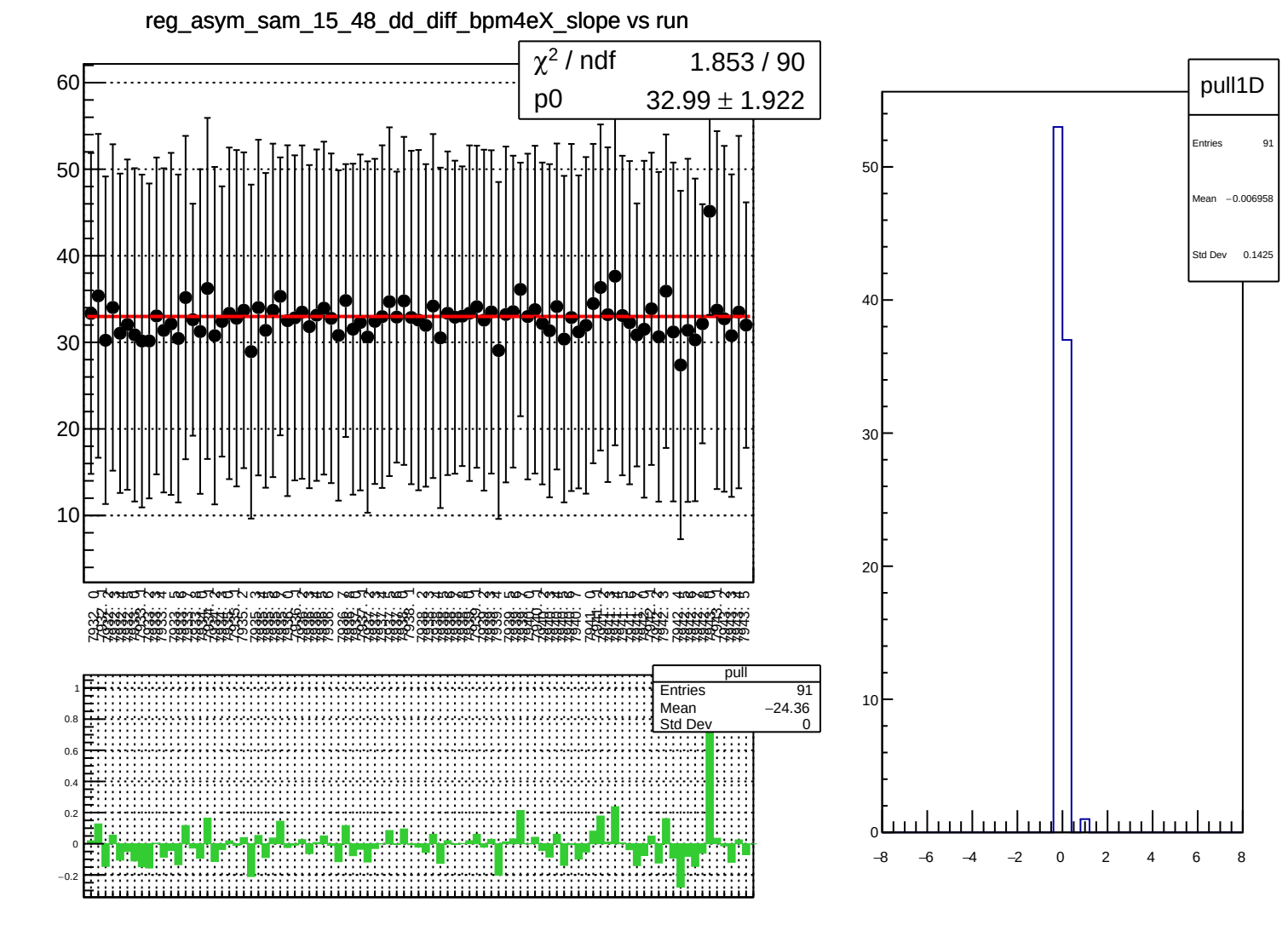

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.309 / 90
p0 −0.2162 ± 3.875
pull
Entries 91
Mean −748.2
Std Dev 0

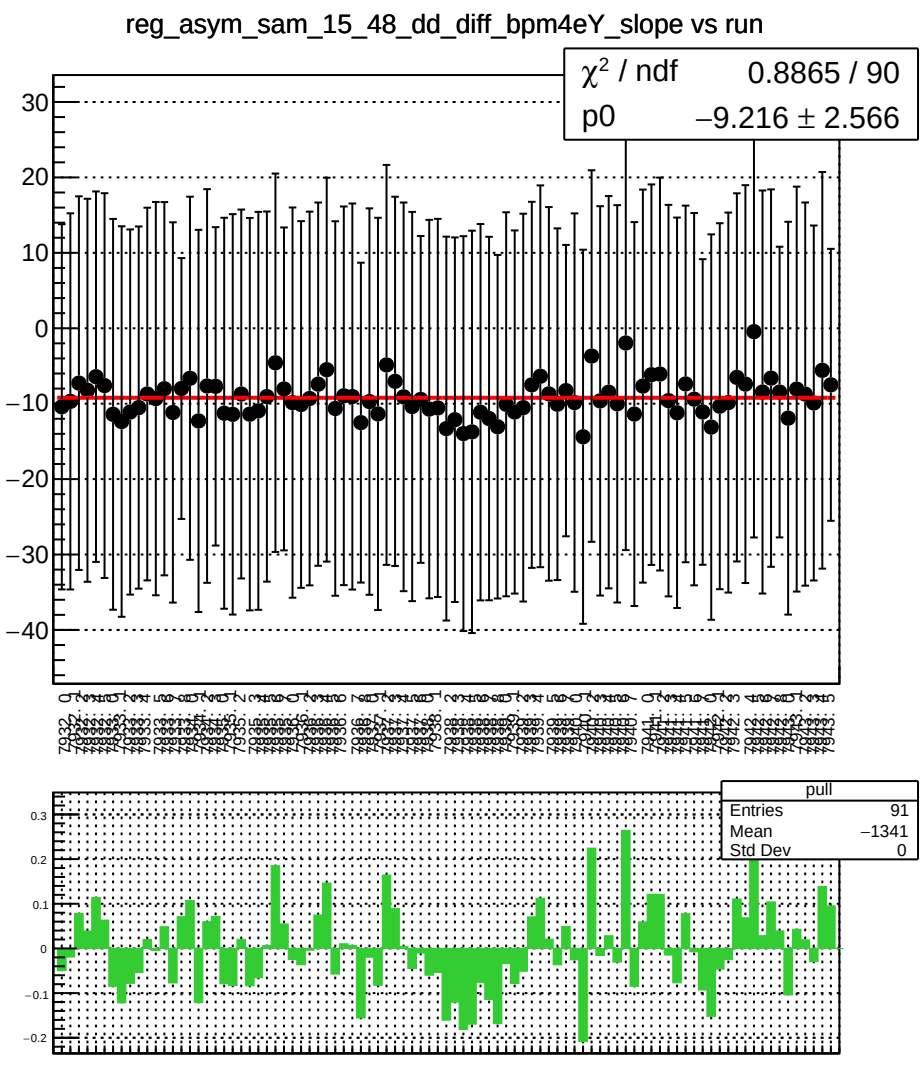

pull1D
Entries 91
Mean 0.00107
Std Dev 0.1907

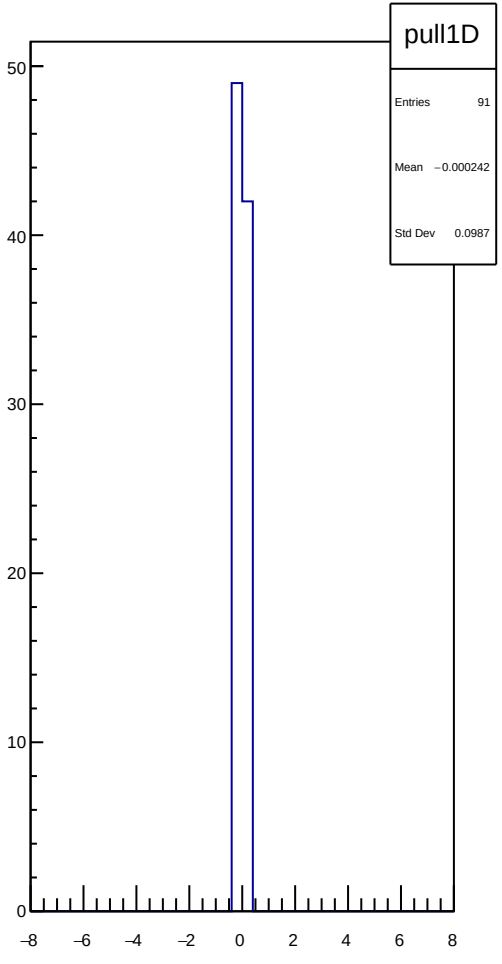

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 4.647 / 90
p0 0.1222 ± 0.1086
pull
Entries 91
Mean 59.43
Std Dev 226.4
pull1D
Entries 91
Mean −0.000656
Std Dev 0.226

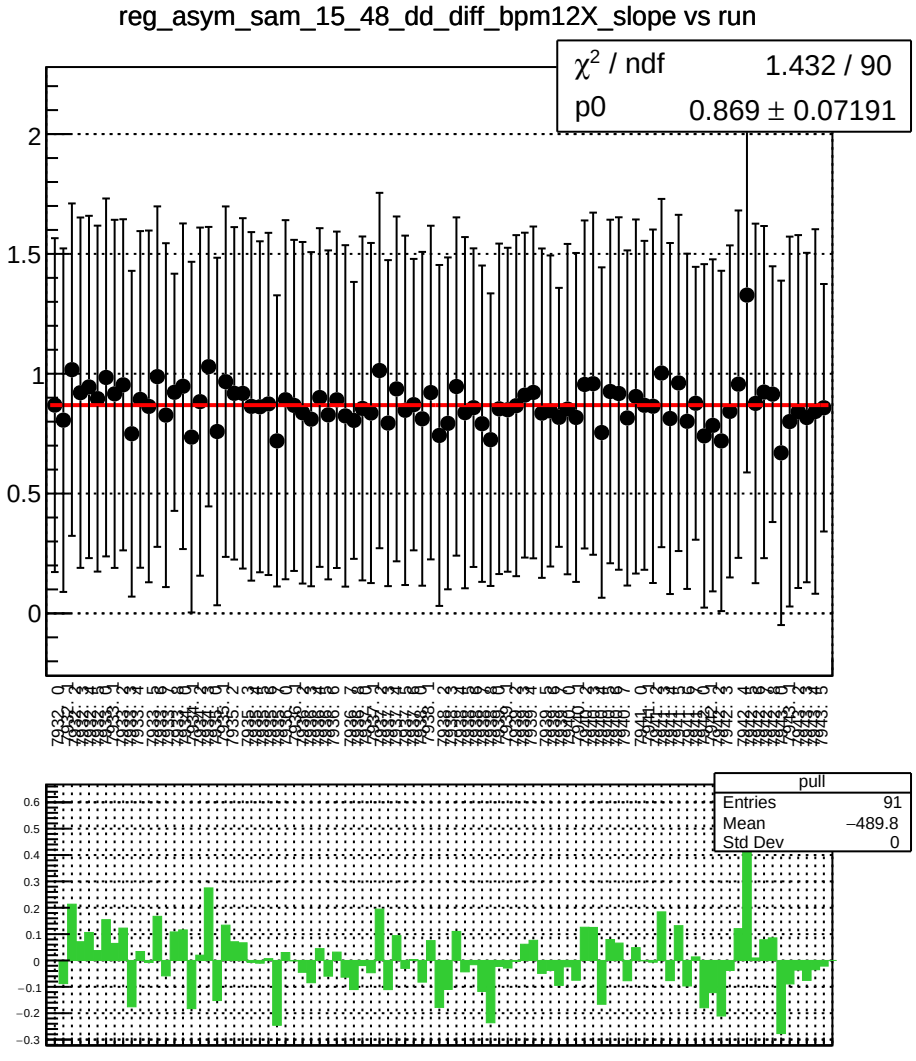

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.08 / 90
p0 25.55 ± 2.137
pull
Entries 91
Mean −107.5
Std Dev 0
pull1D
Entries 91
Mean 0.007123
Std Dev 0.151

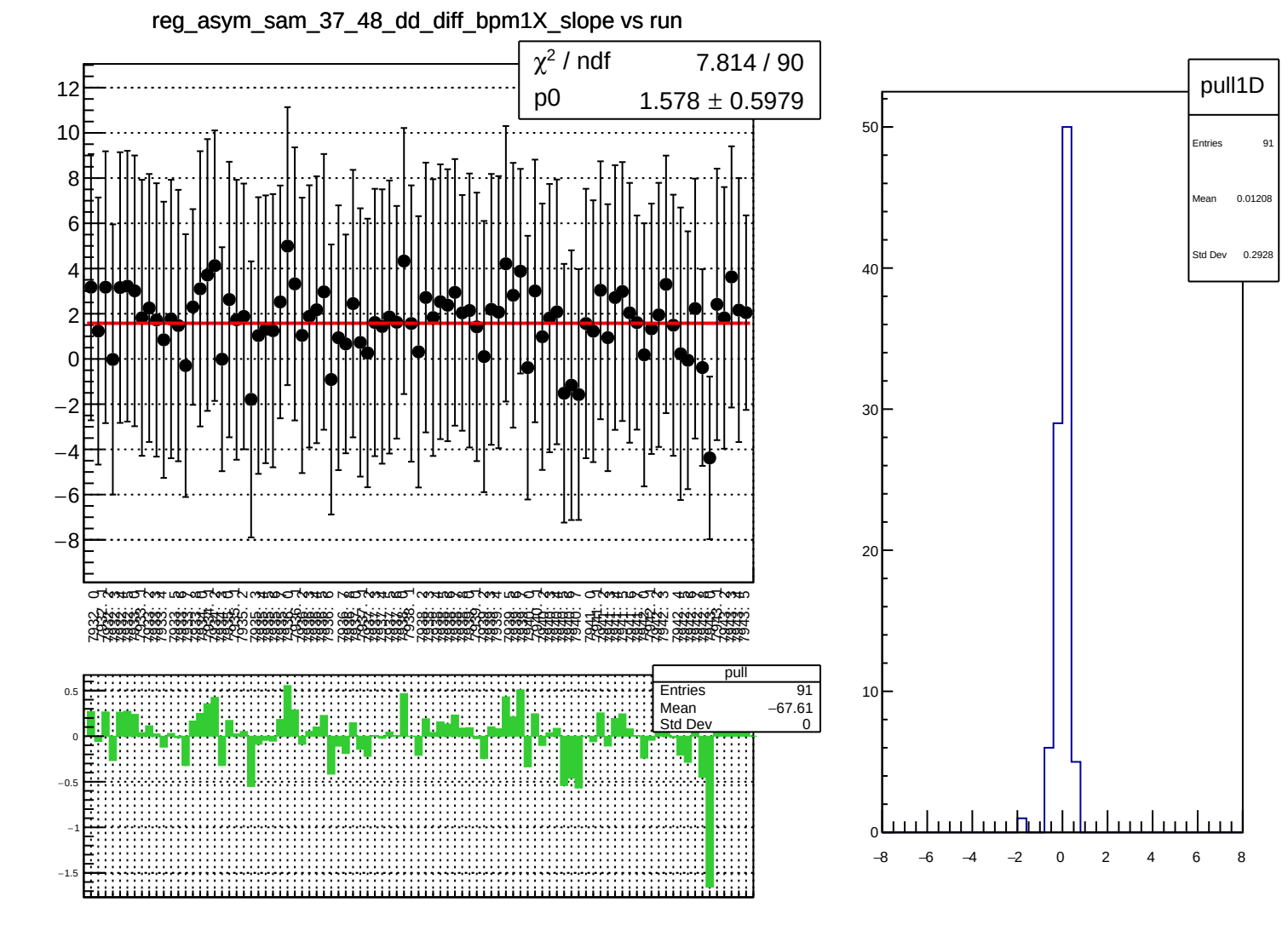

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.856 / 90
p0 −18.74 ± 2.225
pull
Entries 91
Mean 1141
Std Dev 0
pull1D
Entries 91
Mean 0.0001066
Std Dev 0.09699

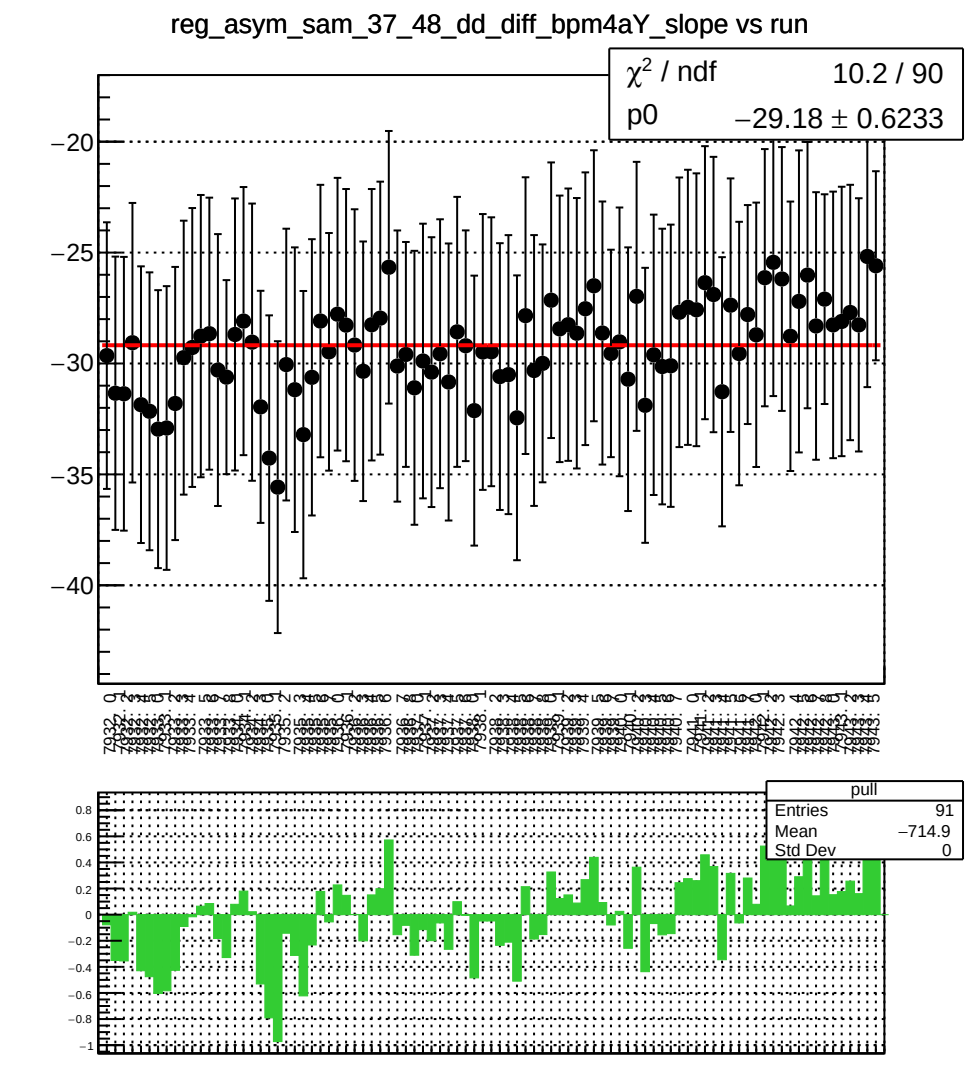

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.853 / 90
p0 32.99 ± 1.922
pull
Entries 91
Mean −24.36
Std Dev 0
pull1D
Entries 91
Mean −0.006958
Std Dev 0.1425

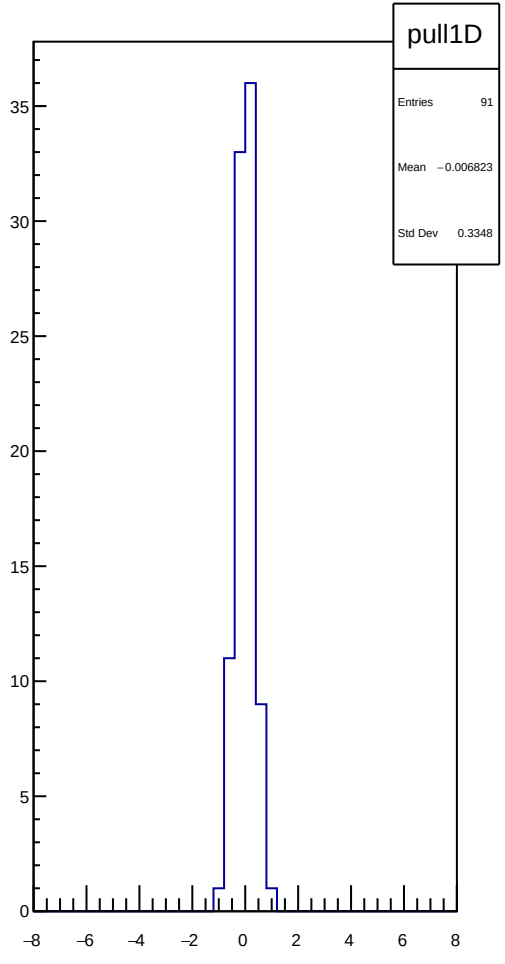

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8865 / 90
p0 −9.216 ± 2.566
pull
Entries 91
Mean −1341
Std Dev 0

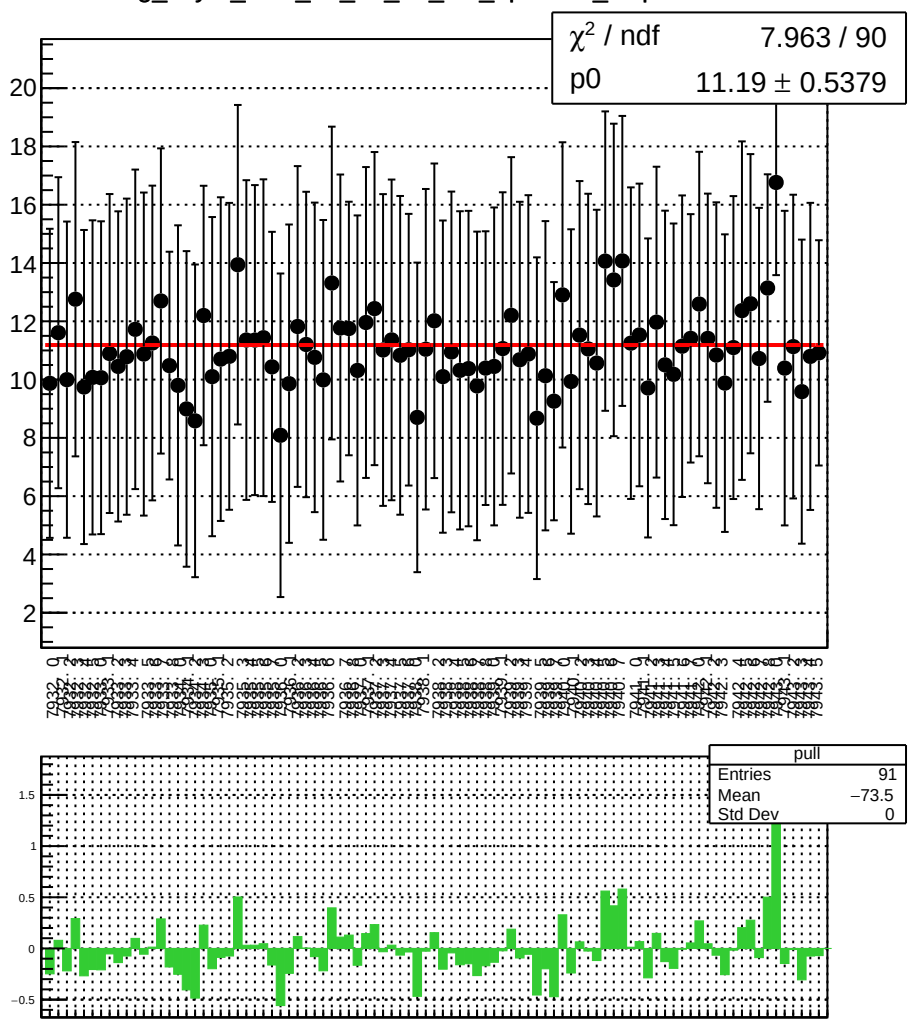

pull1D
Entries 91
Mean −0.000242
Std Dev 0.0987

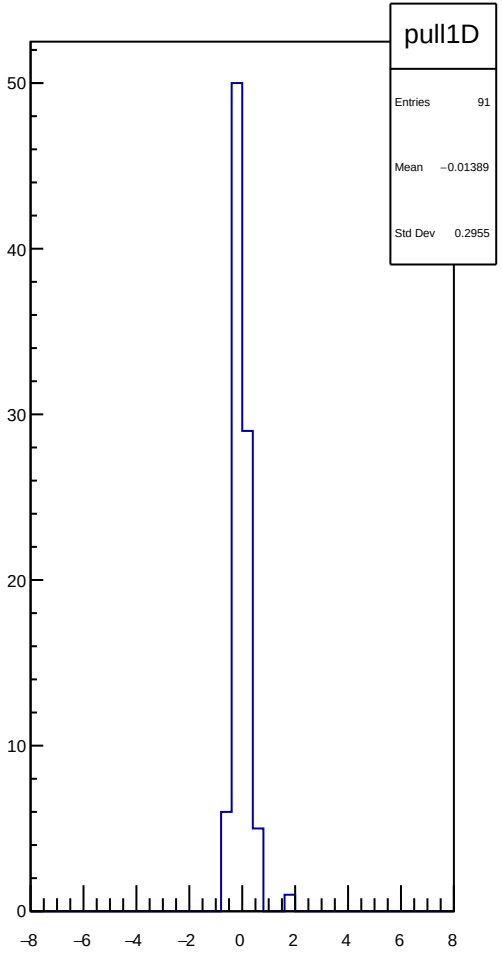

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.432 / 90
p0 0.869 ± 0.07191
pull
Entries 91
Mean −489.8
Std Dev 0
pull1D
Entries 91
Mean 0.0007001
Std Dev 0.1254

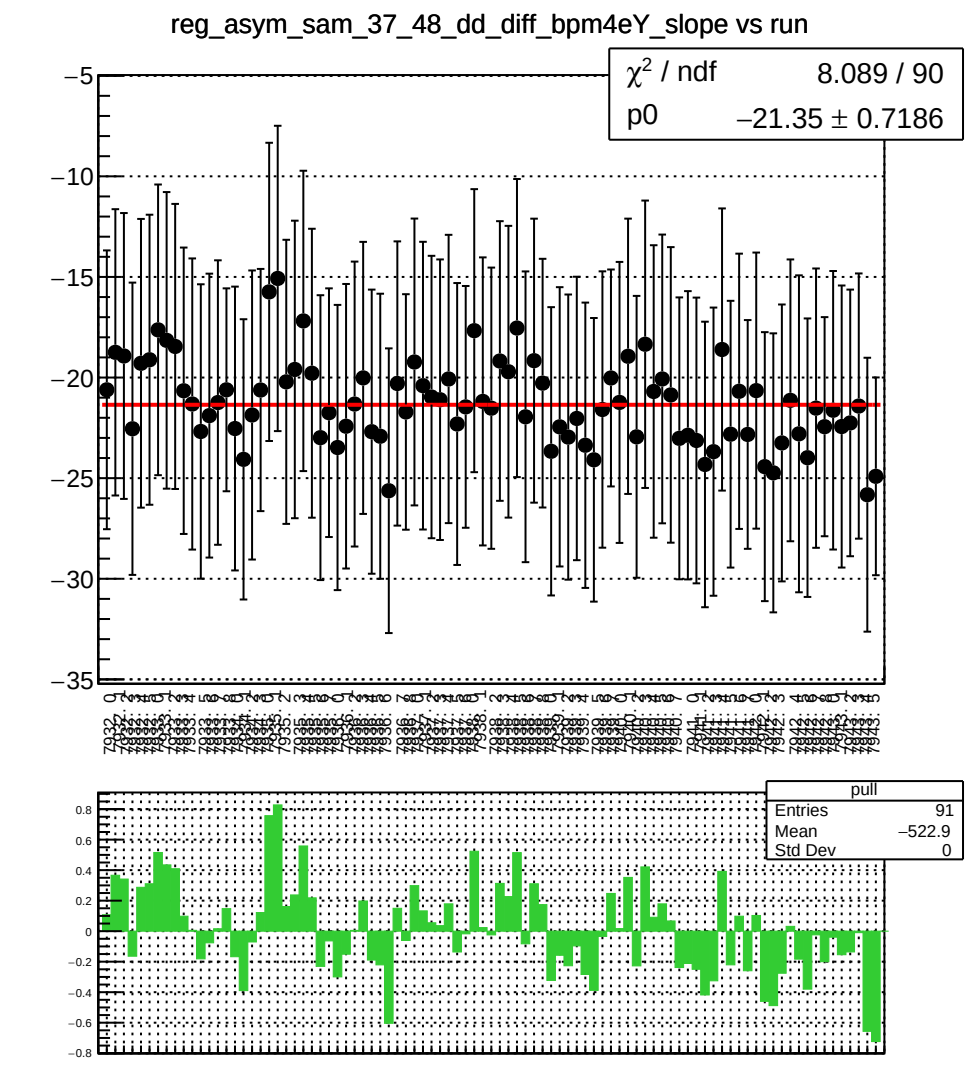

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.814 / 90
p0 1.578 ± 0.5979
pull
Entries 91
Mean −67.61
Std Dev 0
pull1D
Entries 91
Mean 0.01208
Std Dev 0.2928

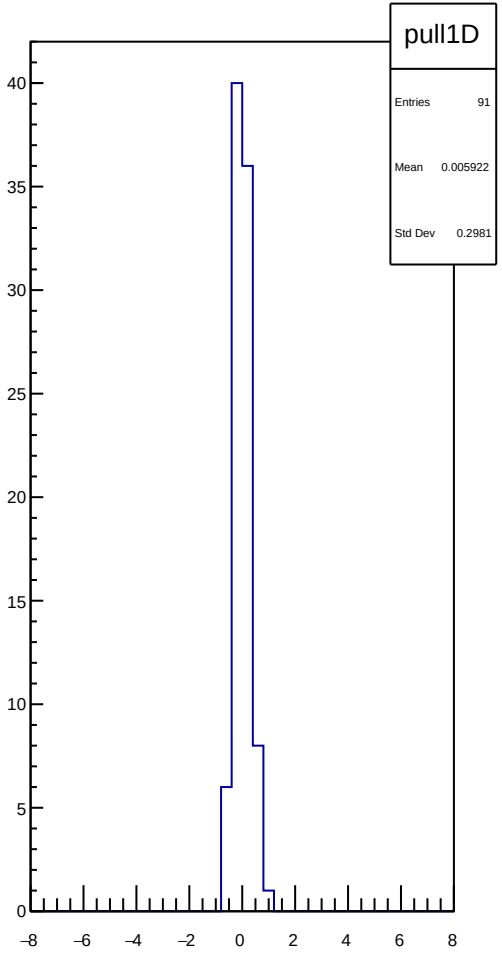

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.2 / 90
p0 −29.18 ± 0.6233
pull
Entries 91
Mean −714.9
Std Dev 0

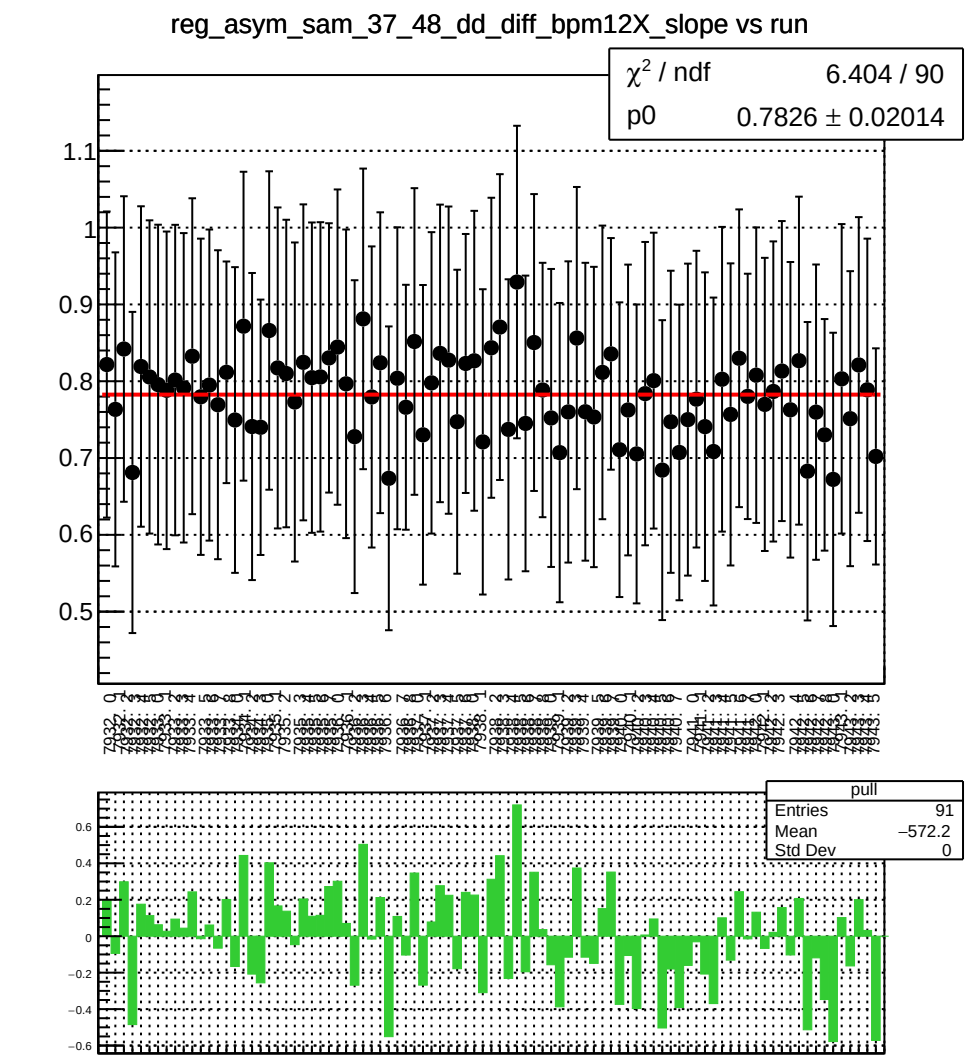

pull1D
Entries 91
Mean −0.006823
Std Dev 0.3348

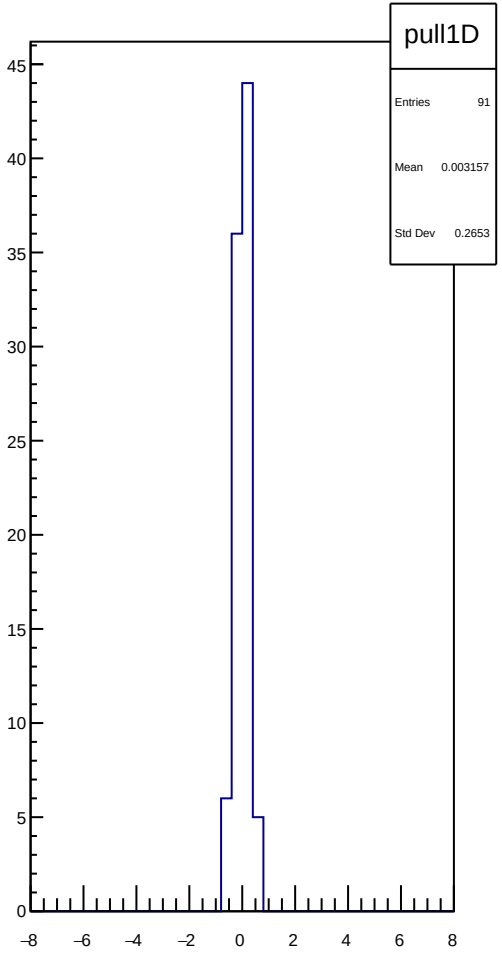

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.963 / 90
p0 11.19 ± 0.5379
pull
Entries 91
Mean −73.5
Std Dev 0

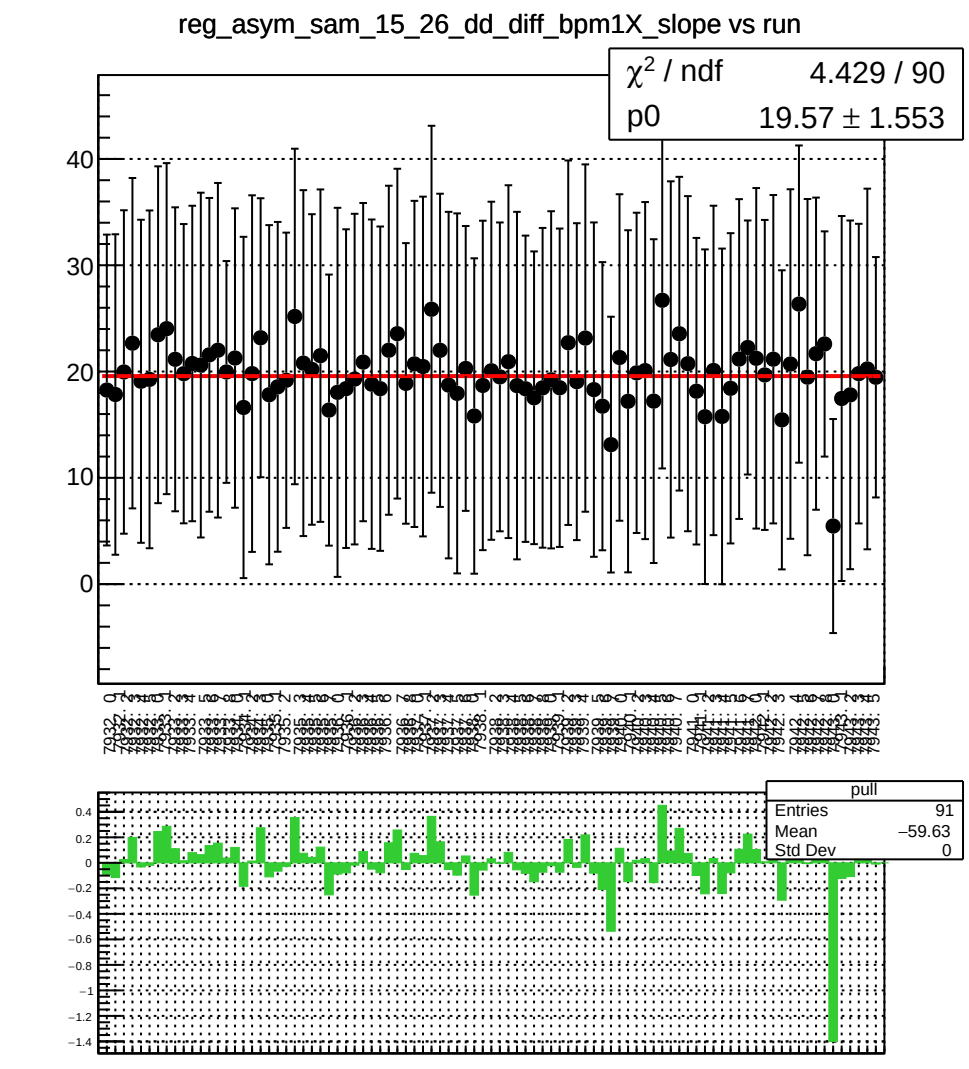

pull1D
Entries 91
Mean −0.01389
Std Dev 0.2955

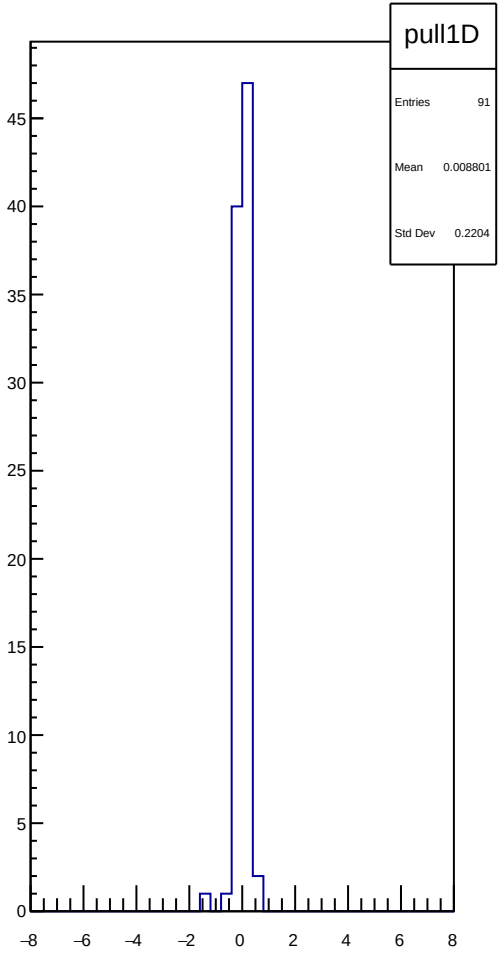

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.089 / 90
p0 −21.35 ± 0.7186
pull
Entries 91
Mean −522.9
Std Dev 0

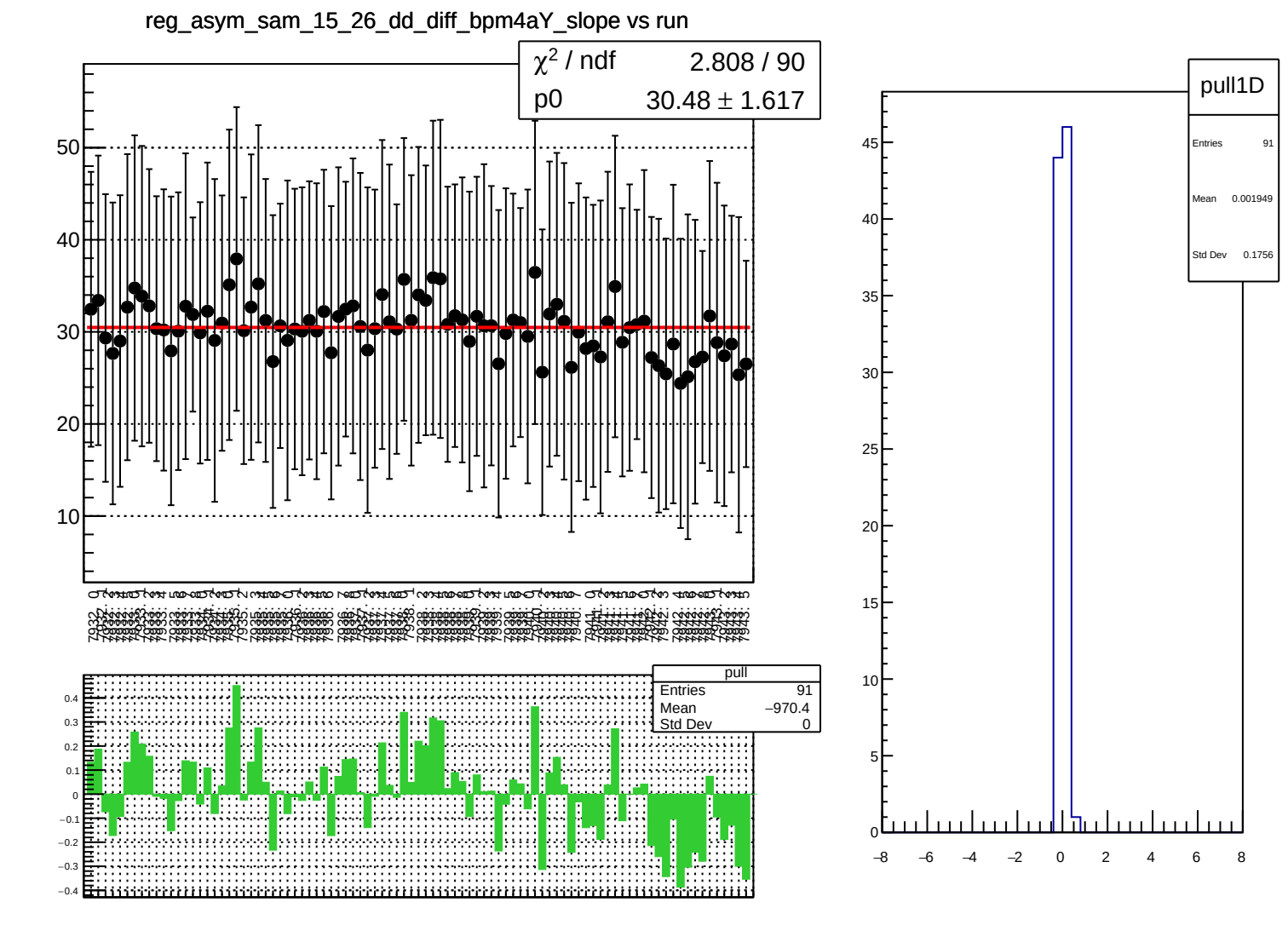

pull1D
Entries 91
Mean 0.005922
Std Dev 0.2981

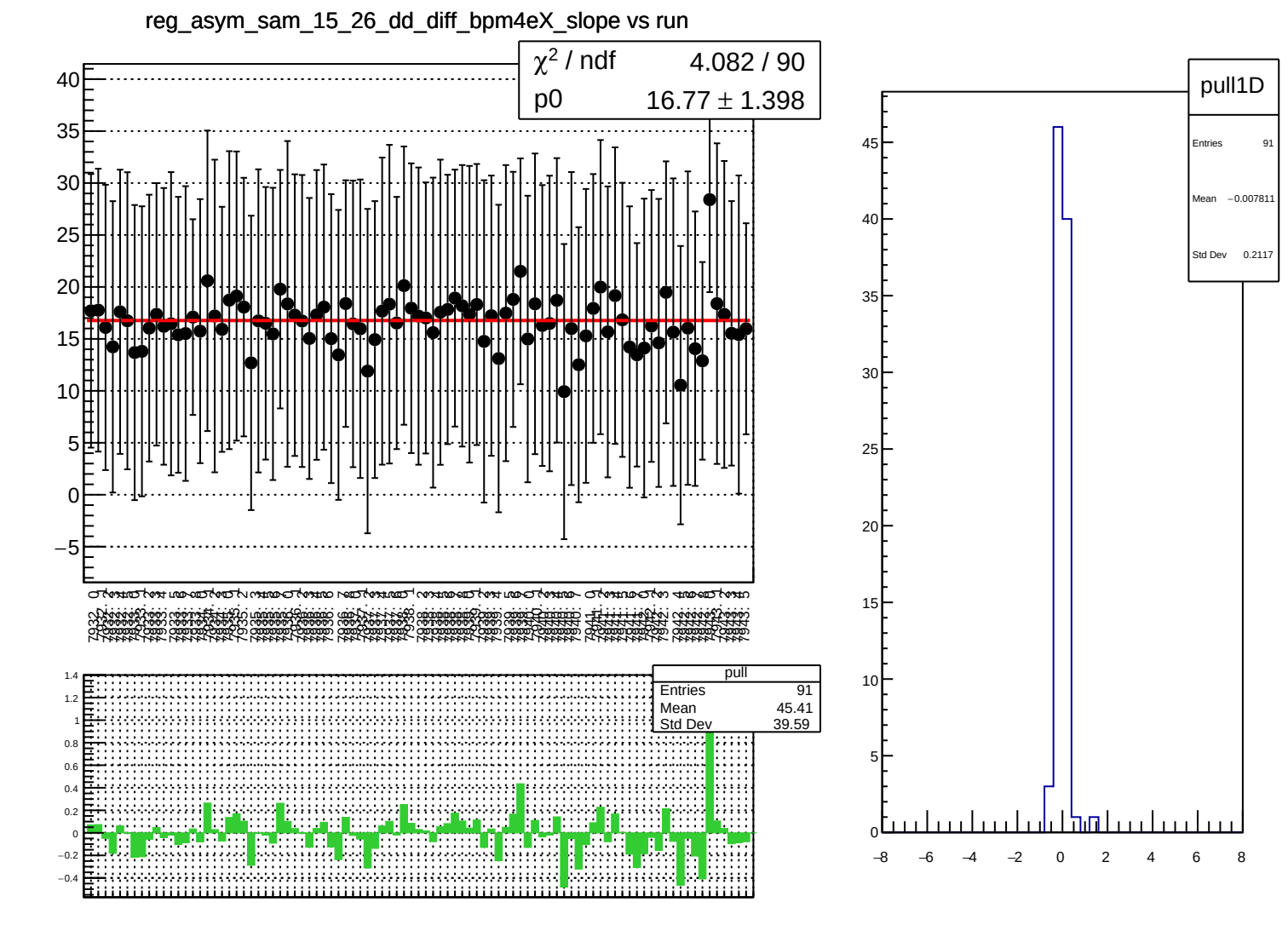

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.404 / 90
p0 0.7826 ± 0.02014
pull
Entries 91
Mean −572.2
Std Dev 0

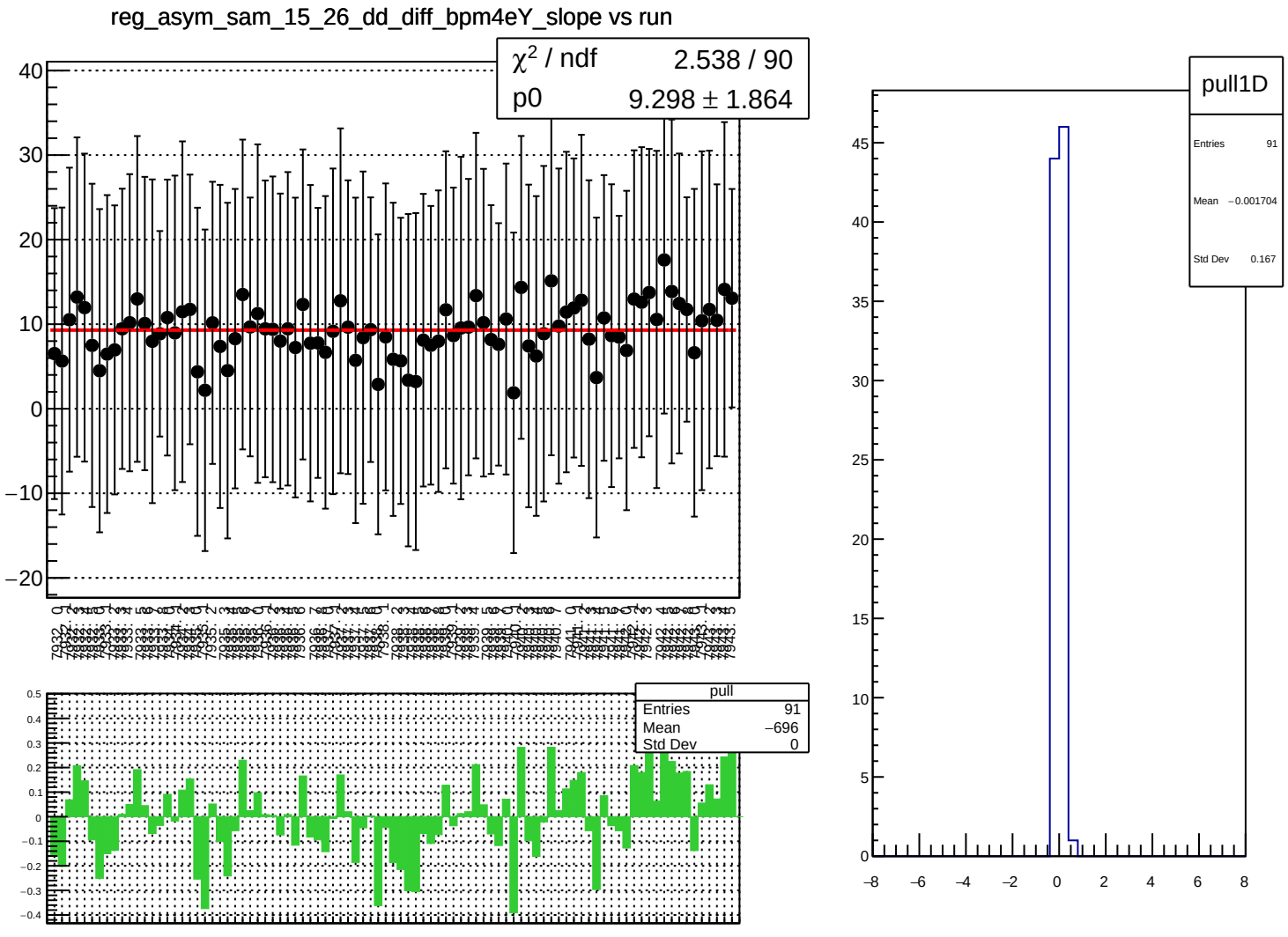

pull1D
Entries 91
Mean 0.003157
Std Dev 0.2653

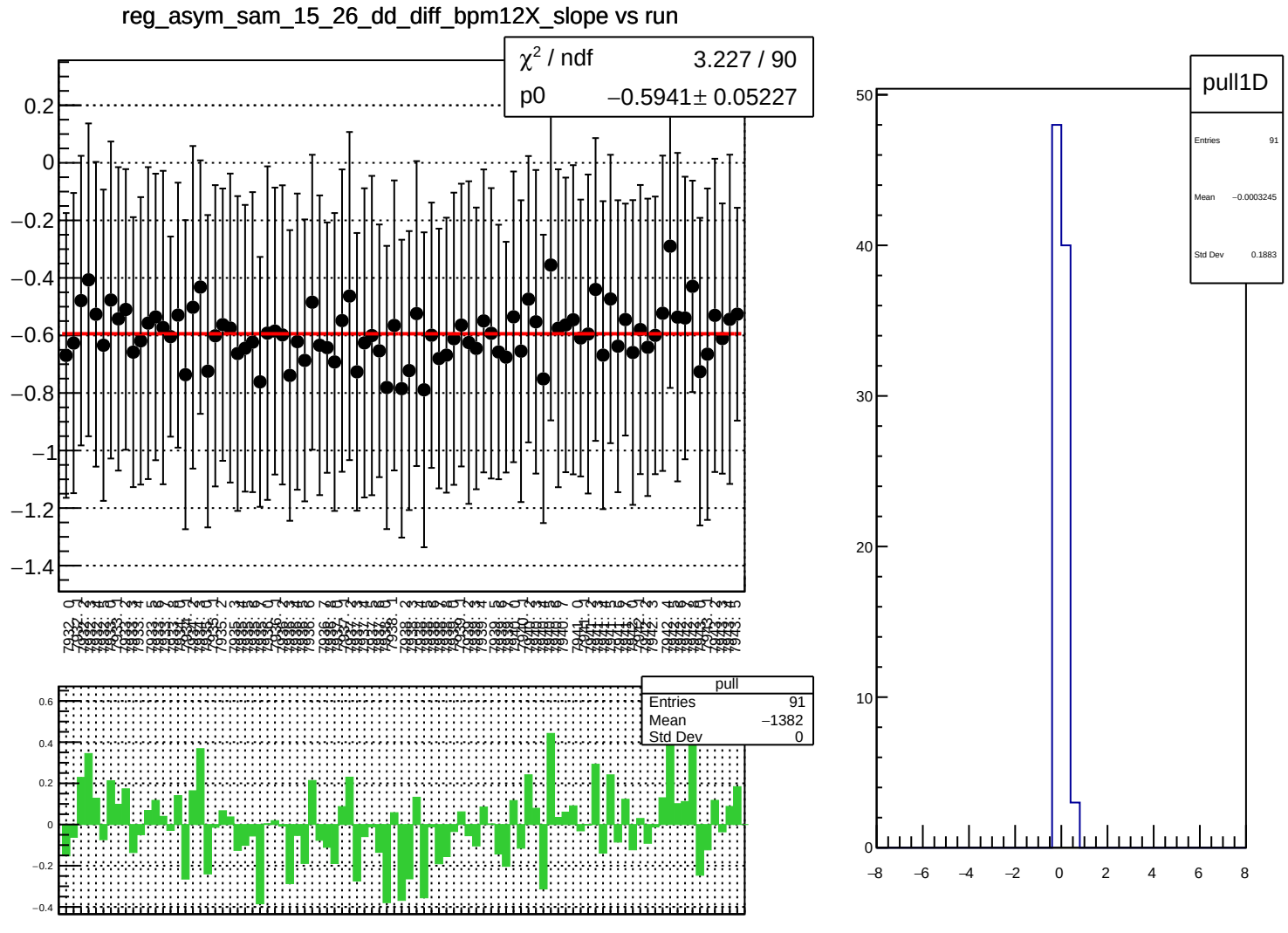

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.429 / 90
p0 19.57 ± 1.553
pull
Entries 91
Mean −59.63
Std Dev 0

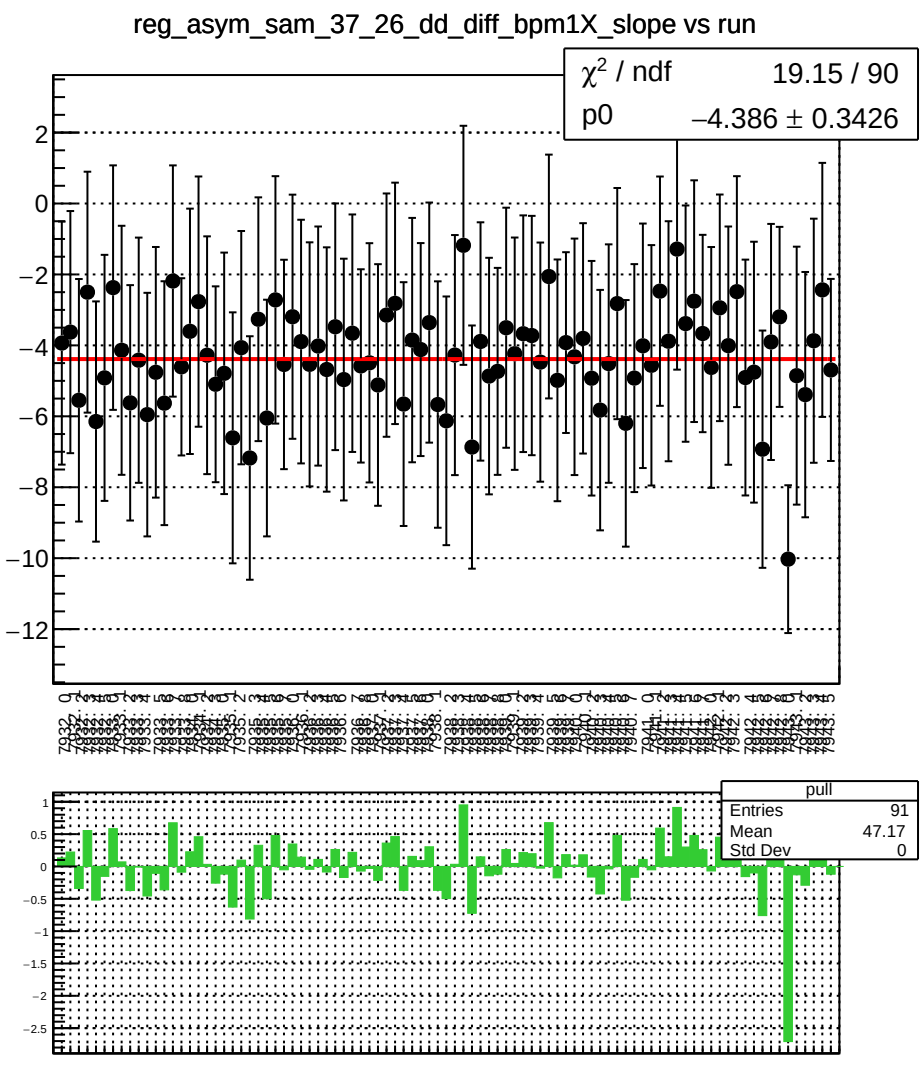

pull1D
Entries 91
Mean 0.008801
Std Dev 0.2204

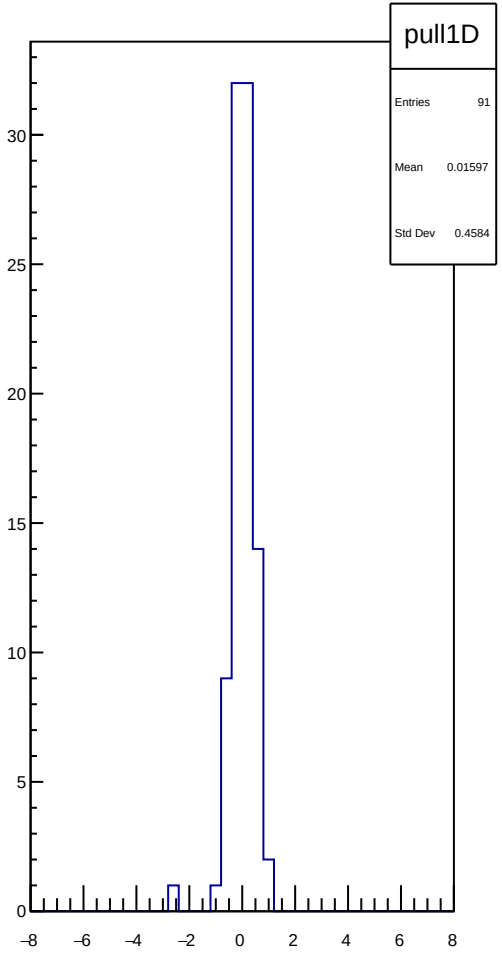

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.808 / 90
p0 30.48 ± 1.617
pull
Entries 91
Mean −970.4
Std Dev 0
pull1D
Entries 91
Mean 0.001949
Std Dev 0.1756

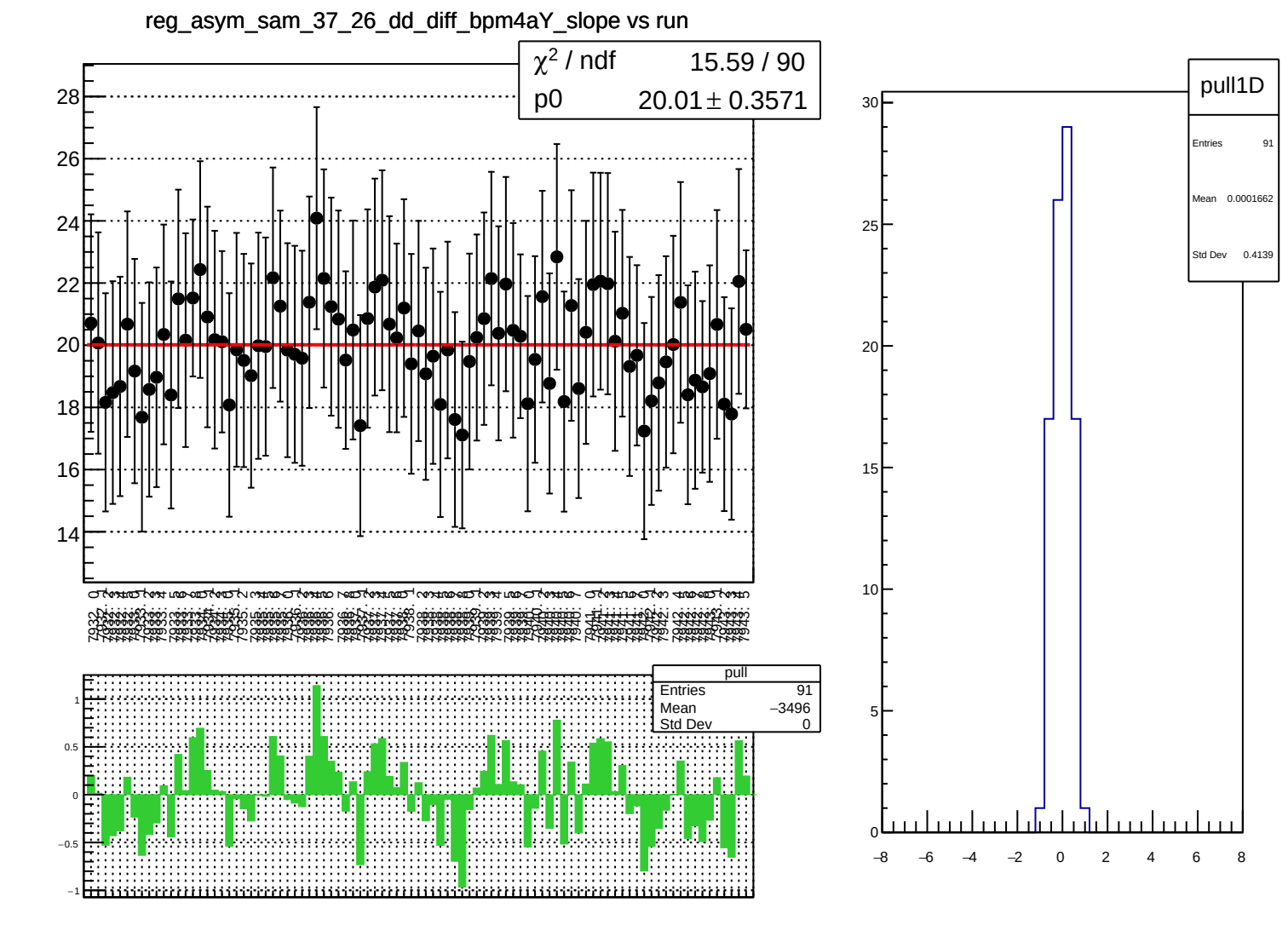

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.082 / 90
p0 16.77 ± 1.398
pull
Entries 91
Mean 45.41
Std Dev 39.59
pull1D
Entries 91
Mean −0.007811
Std Dev 0.2117

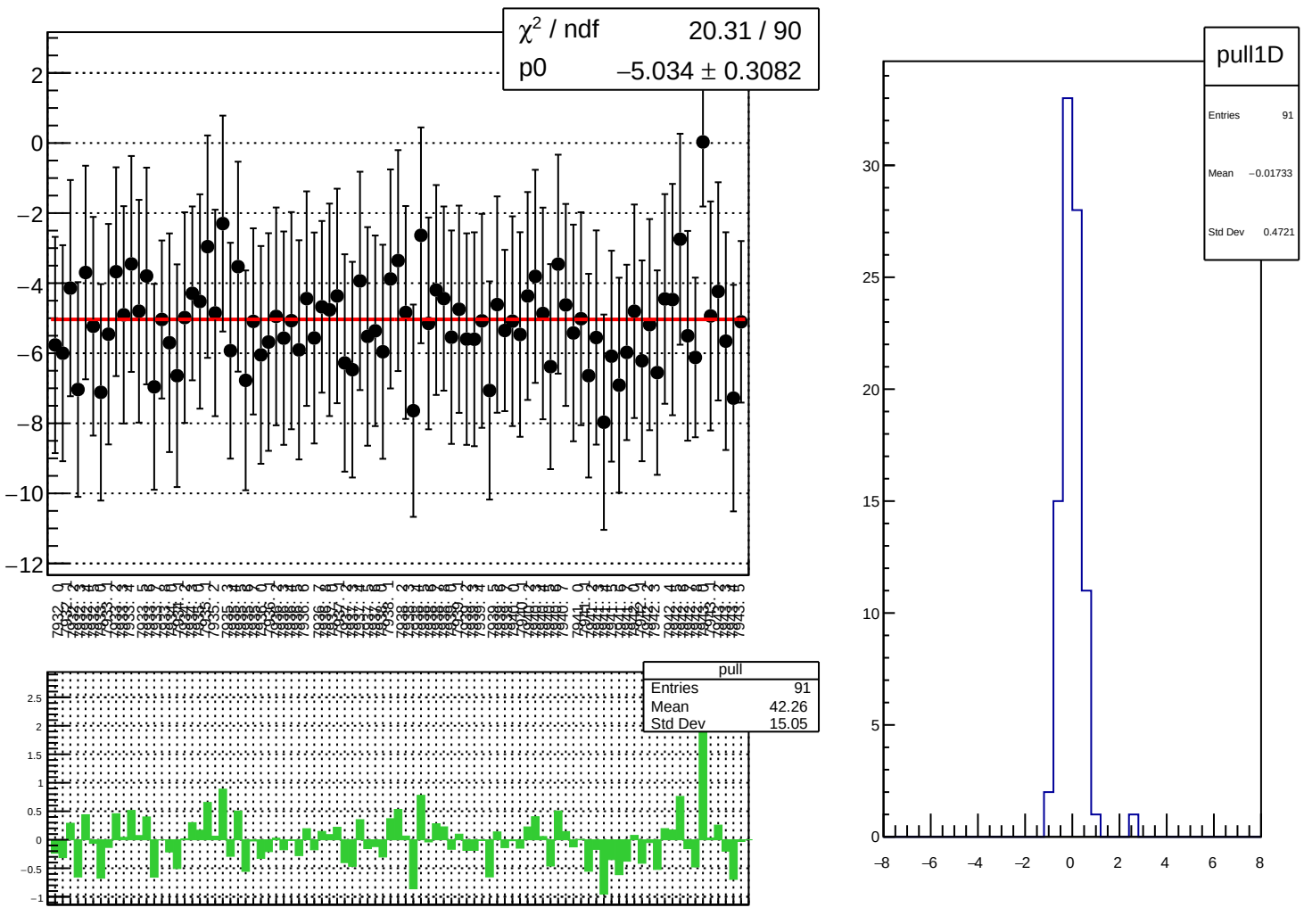

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.538 / 90
p0 9.298 ± 1.864
pull
Entries 91
Mean −696
Std Dev 0
pull1D
Entries 91
Mean −0.001704
Std Dev 0.167

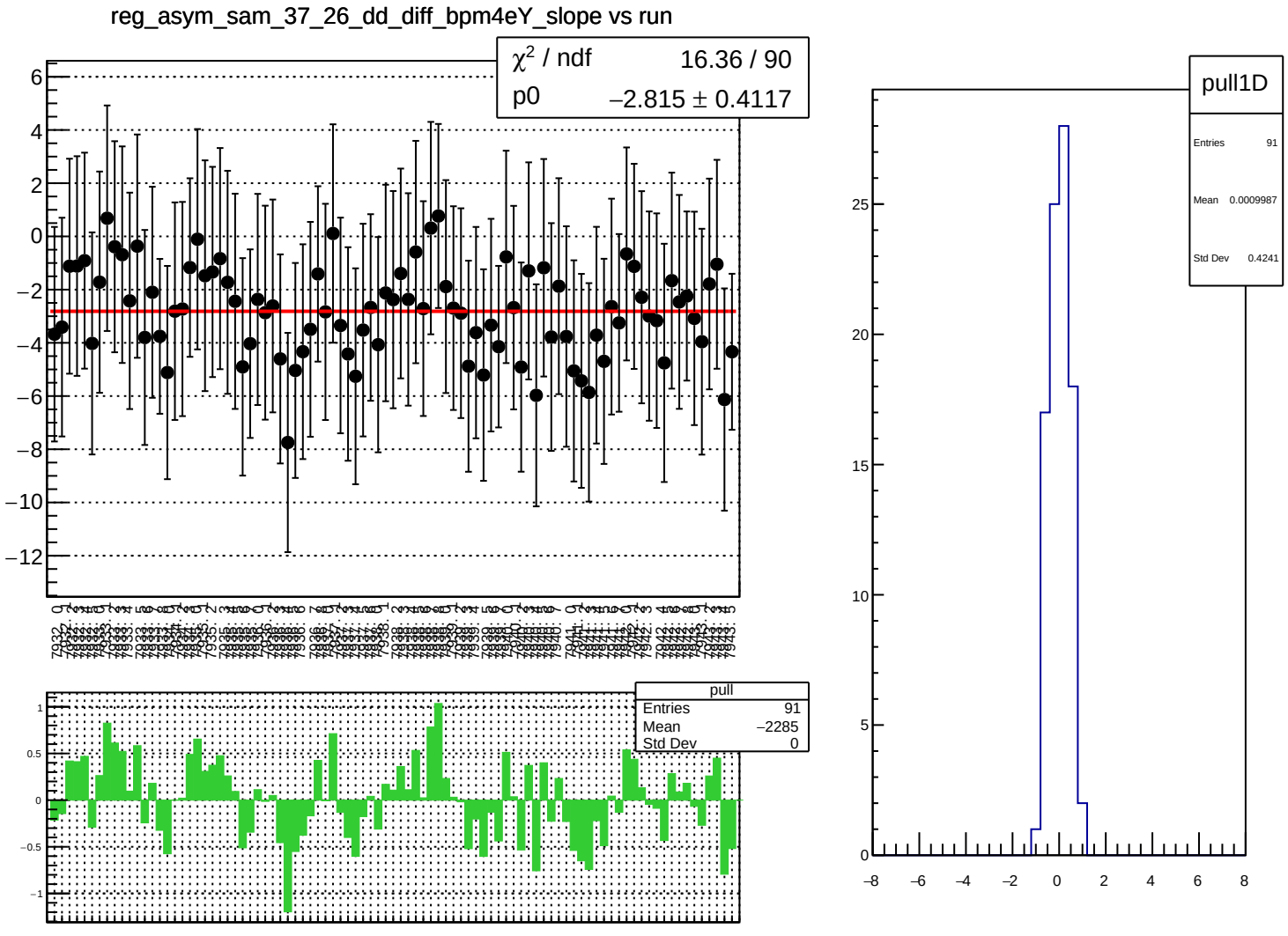

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.227 / 90
p0 −0.5941± 0.05227
pull
Entries 91
Mean −1382
Std Dev 0
pull1D
Entries 91
Mean −0.0003245
Std Dev 0.1883

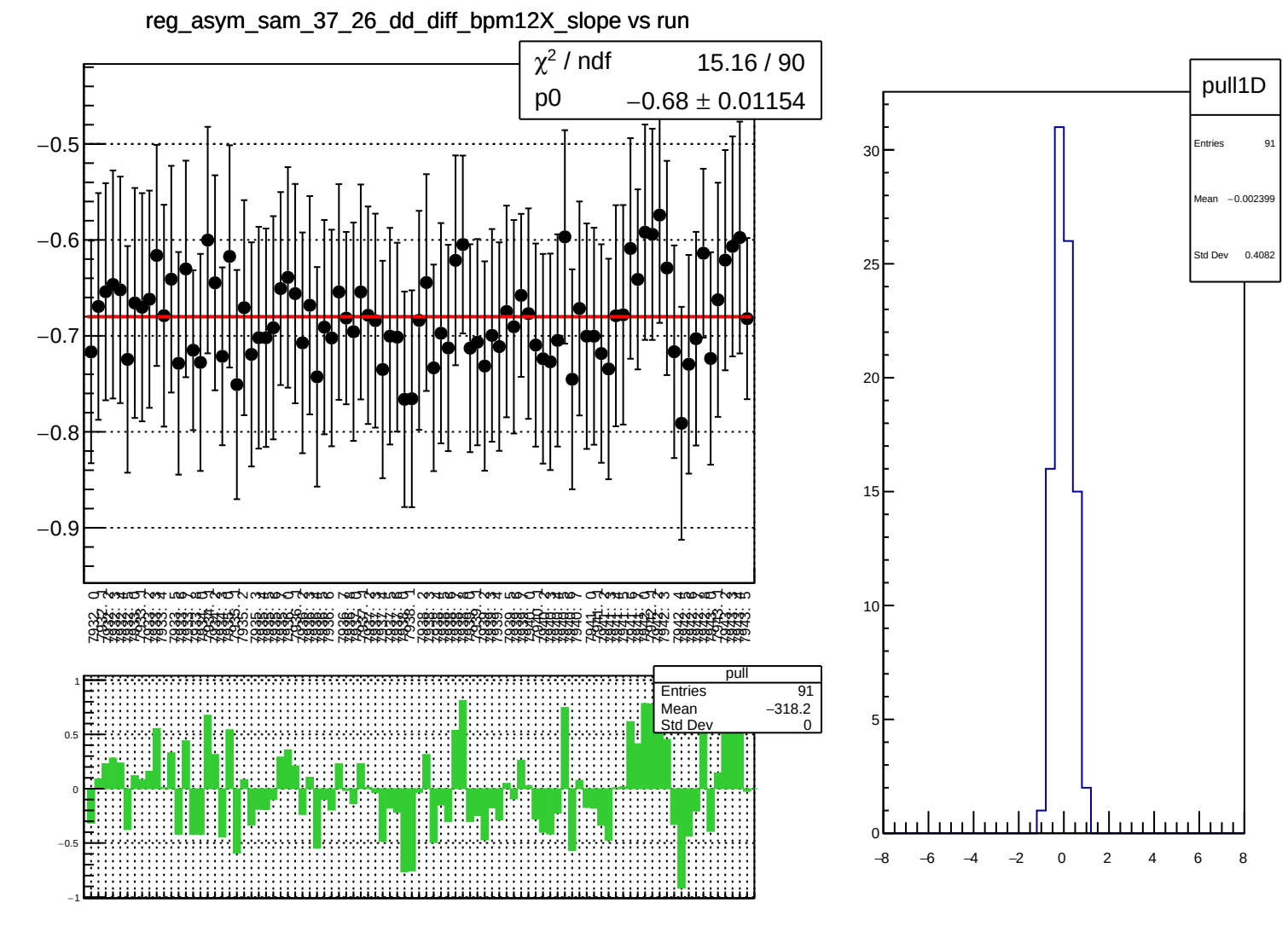

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 19.15 / 90
p0 −4.386 ± 0.3426
pull
Entries 91
Mean 47.17
Std Dev 0

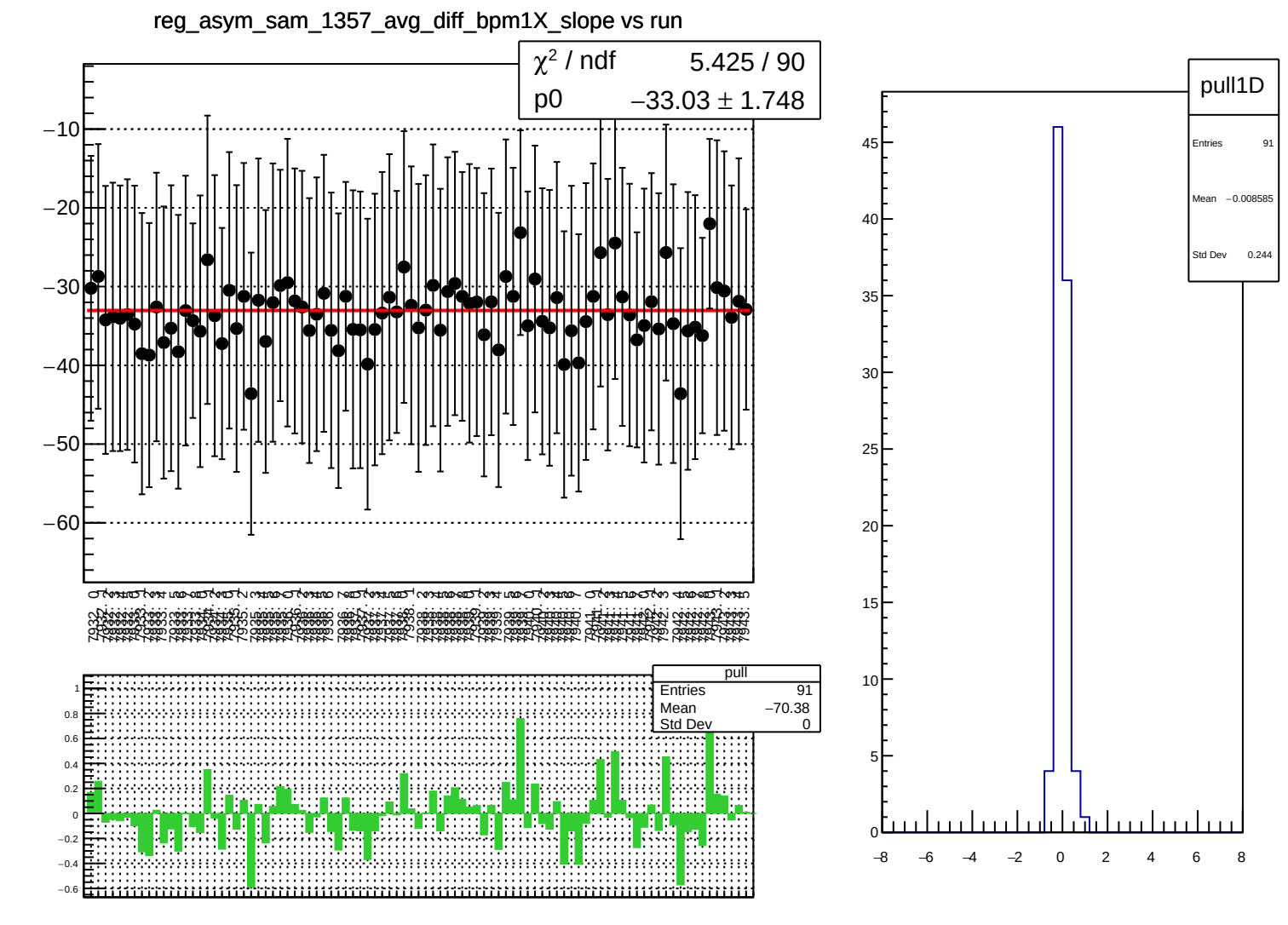

pull1D
Entries 91
Mean 0.01597
Std Dev 0.4584

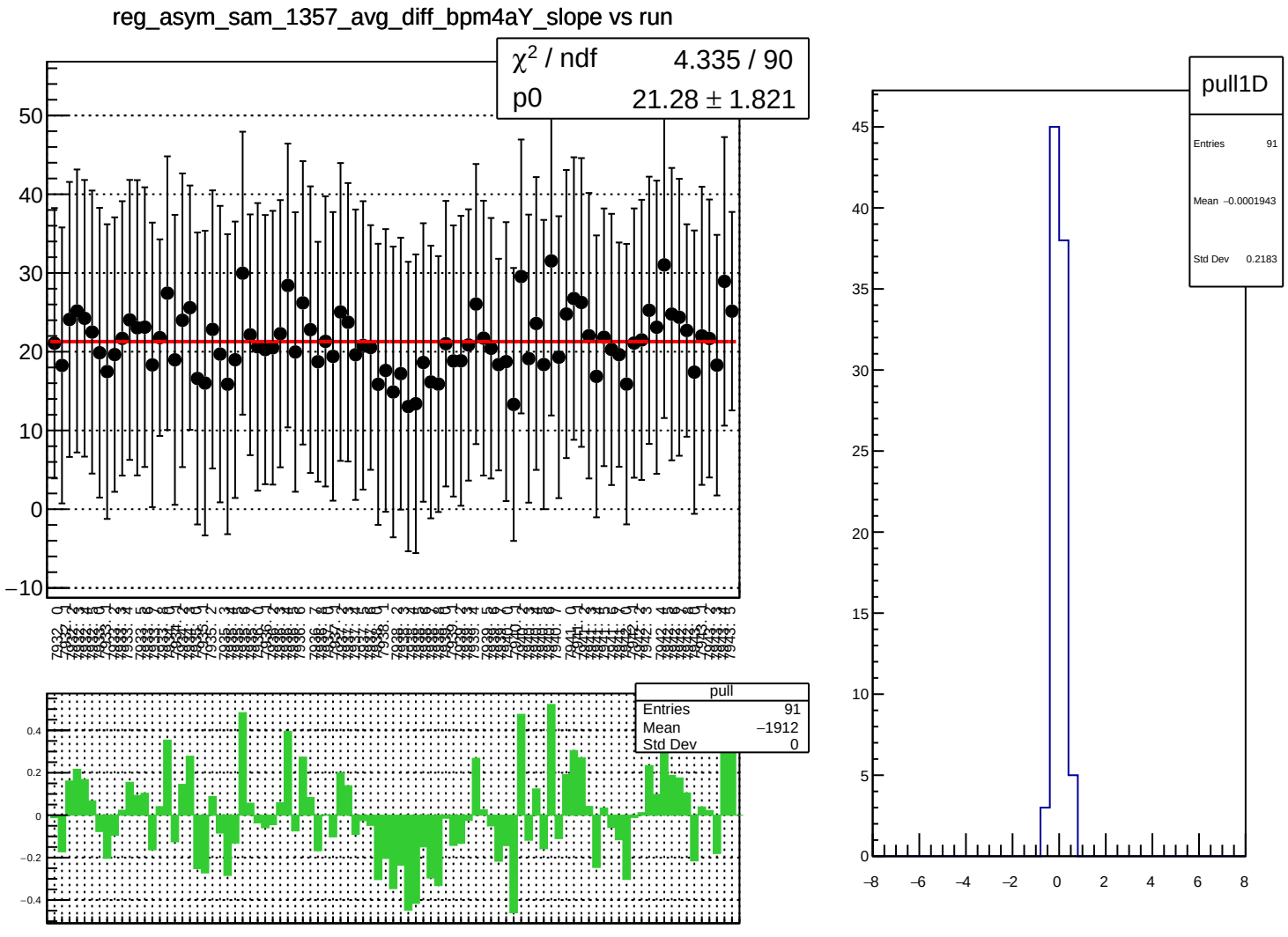

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.59 / 90
p0 20.01 ± 0.3571
pull
Entries 91
Mean −3496
Std Dev 0
pull1D
Entries 91
Mean 0.0001662
Std Dev 0.4139

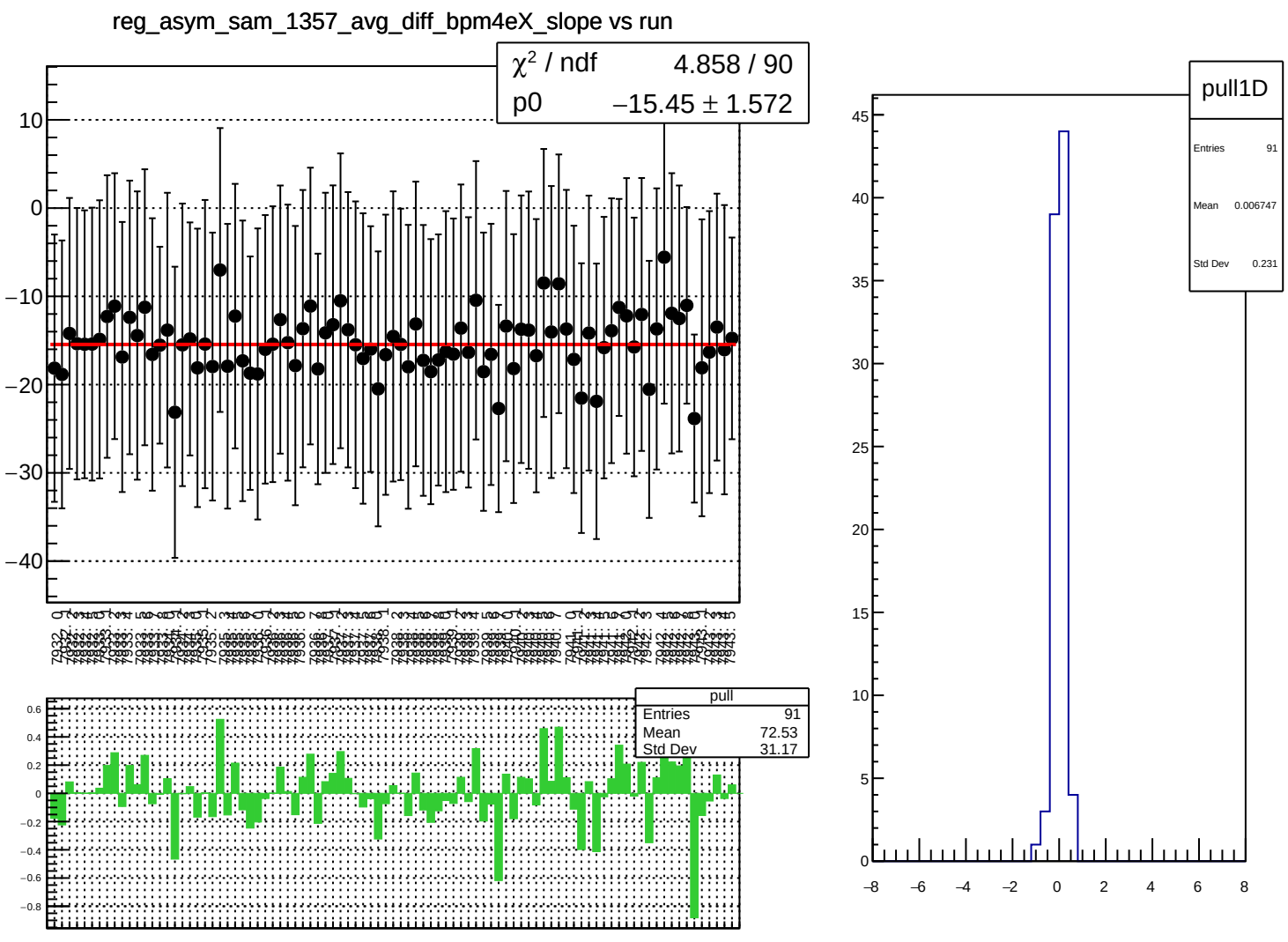

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.31 / 90
p0 −5.034 ± 0.3082
pull
Entries 91
Mean 42.26
Std Dev 15.05
pull1D
Entries 91
Mean −0.01733
Std Dev 0.4721

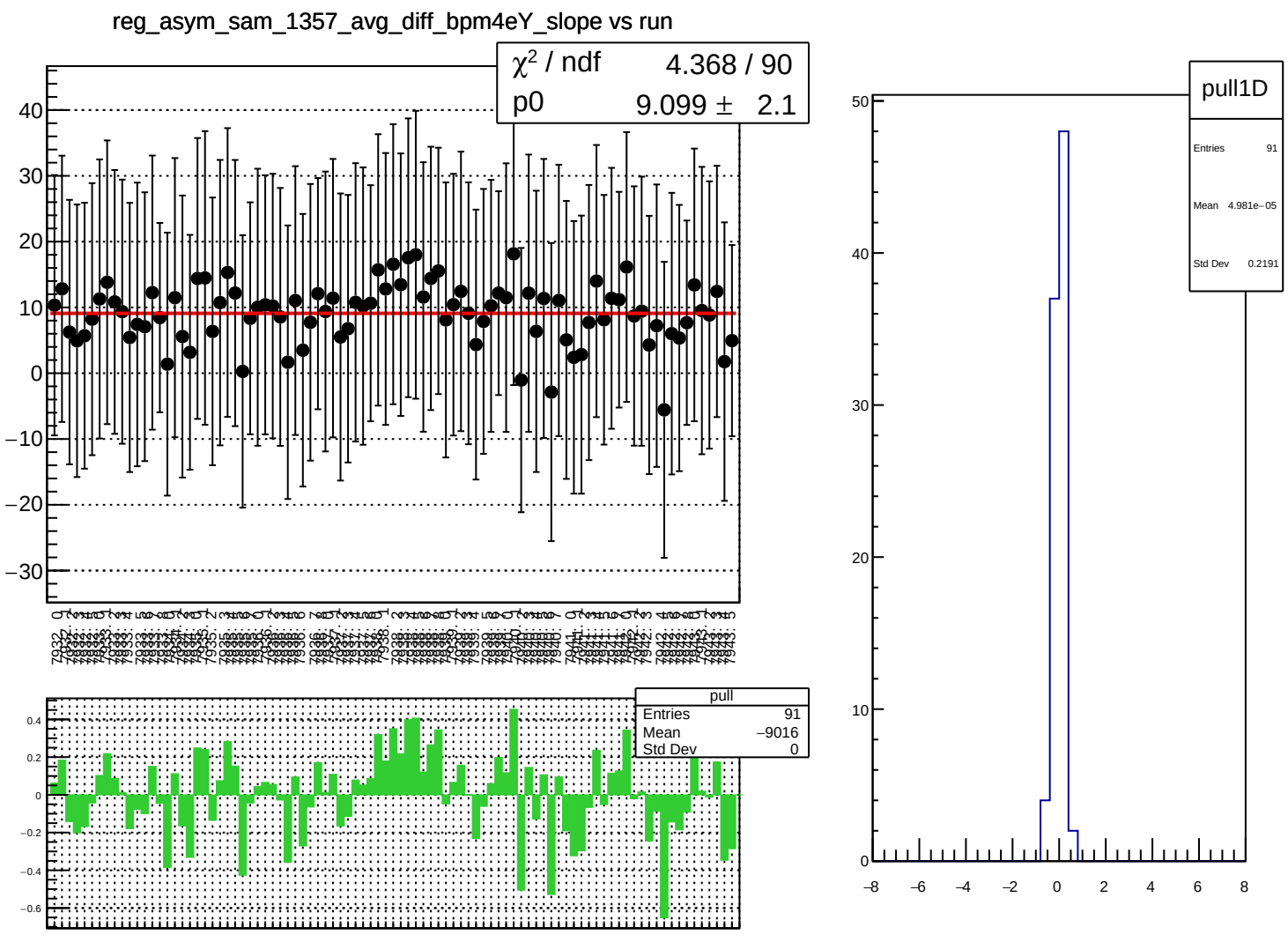

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.36 / 90
p0 −2.815 ± 0.4117
pull
Entries 91
Mean −2285
Std Dev 0
pull1D
Entries 91
Mean 0.0009987
Std Dev 0.4241

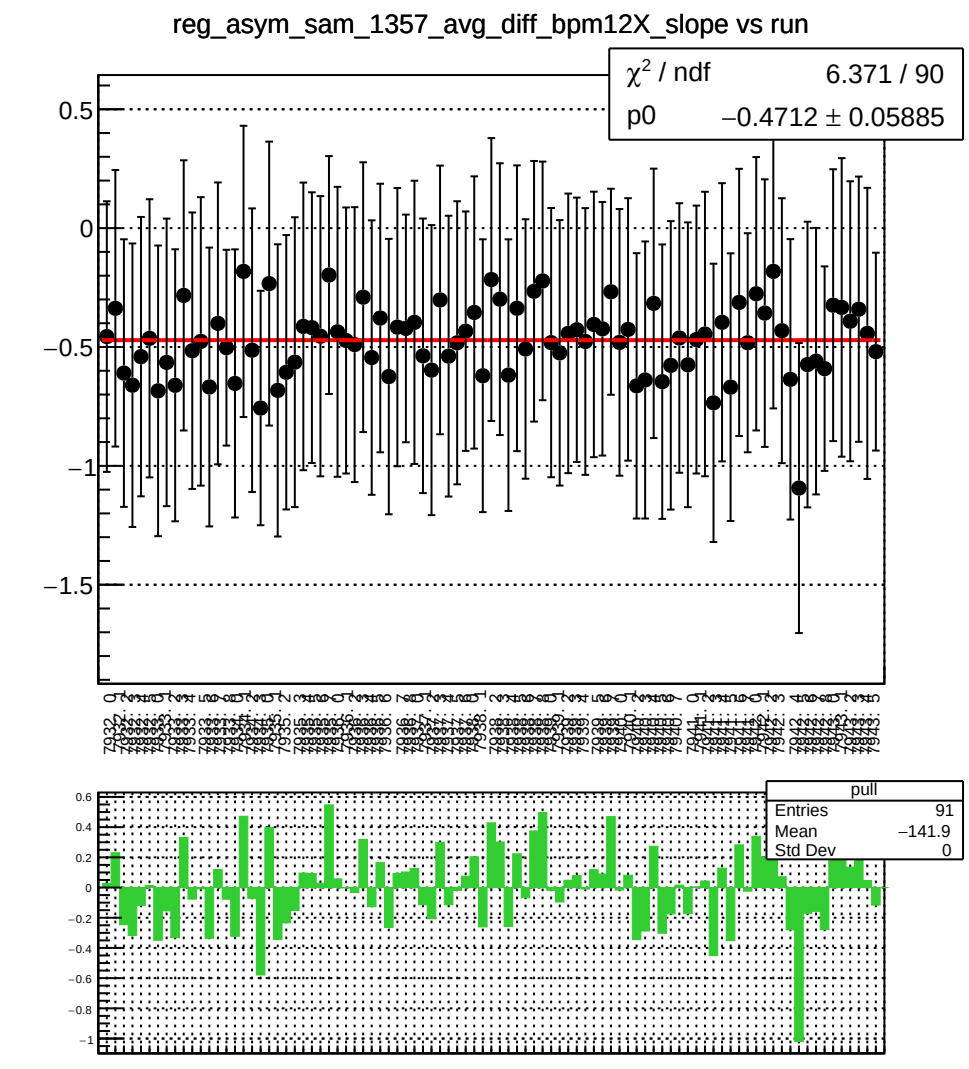

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.16 / 90
p0 −0.68 ± 0.01154
pull
Entries 91
Mean −318.2
Std Dev 0
pull1D
Entries 91
Mean −0.002399
Std Dev 0.4082

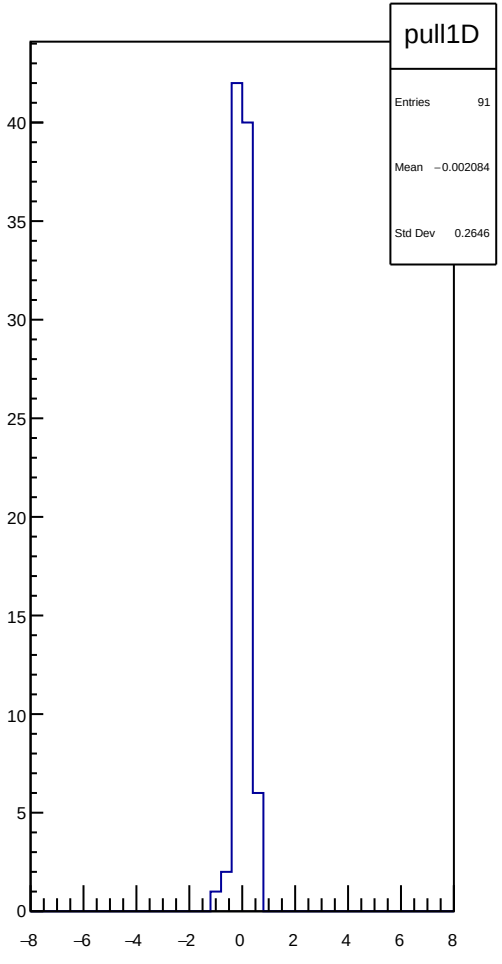

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 5.425 / 90
p0 −33.03 ± 1.748
pull
Entries 91
Mean −70.38
Std Dev 0
pull1D
Entries 91
Mean −0.008585
Std Dev 0.244

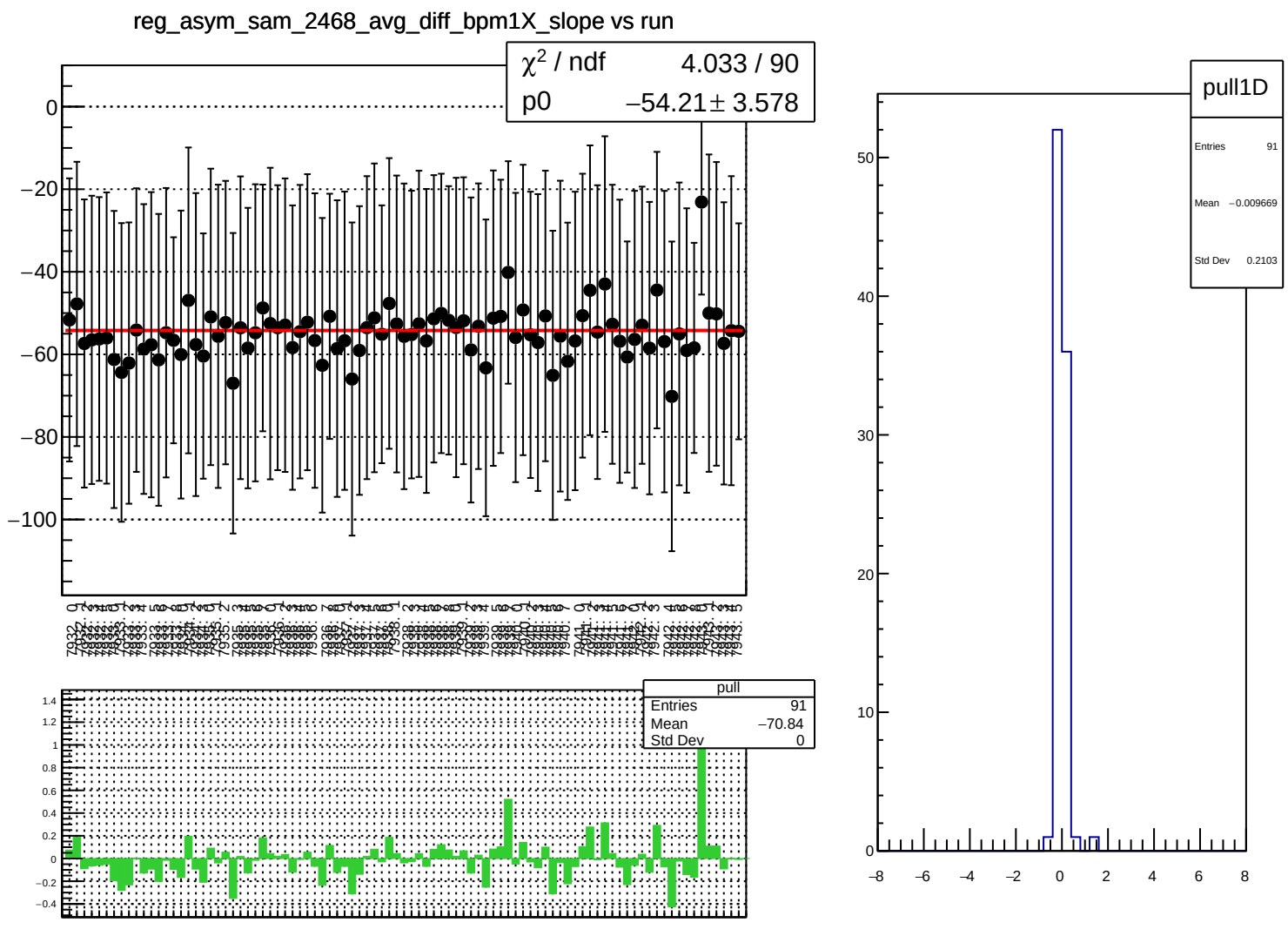

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.335 / 90
p0 21.28 ± 1.821
pull
Entries 91
Mean −1912
Std Dev 0
pull1D
Entries 91
Mean −0.0001943
Std Dev 0.2183

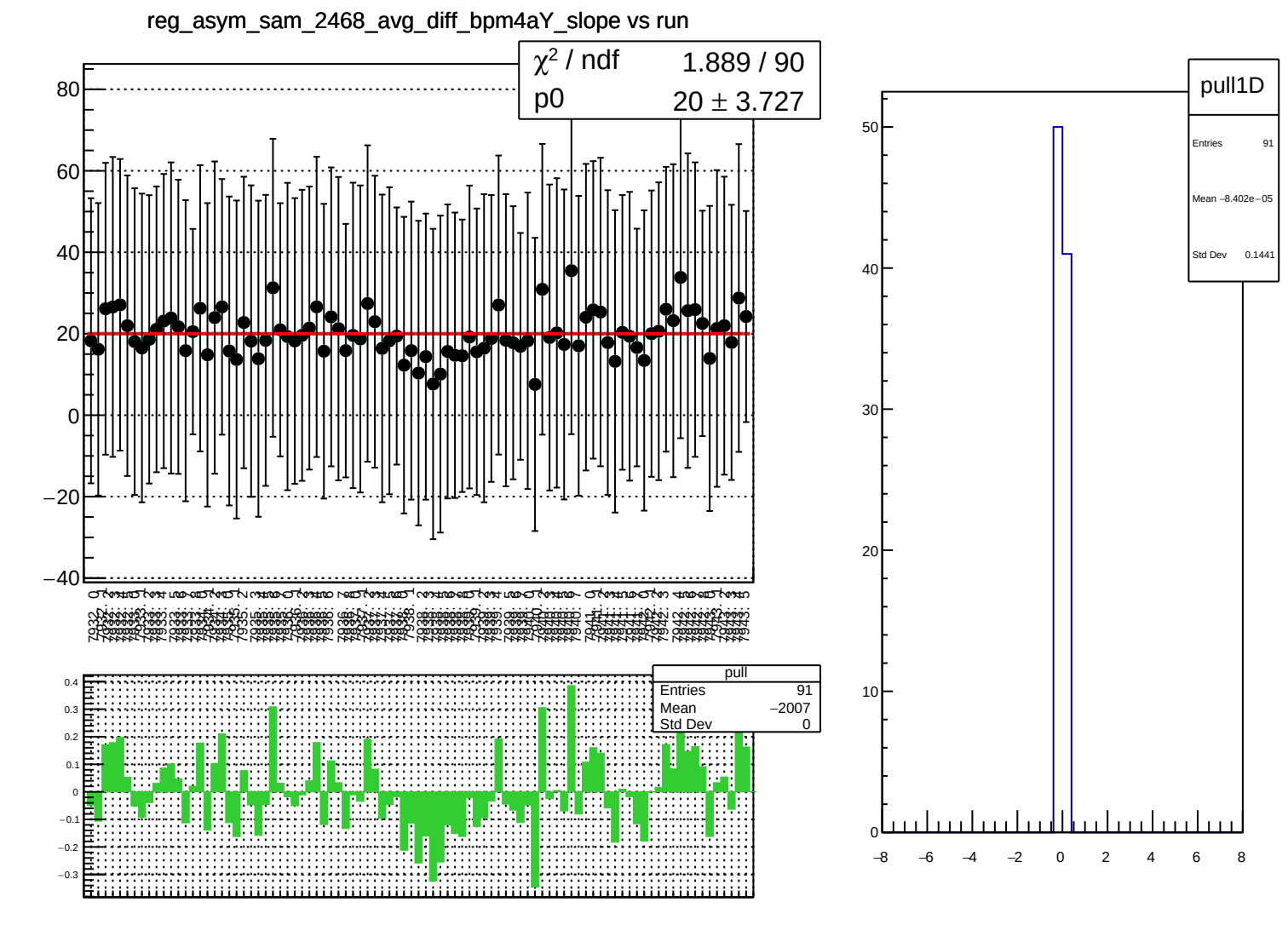

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.858 / 90
p0 −15.45 ± 1.572
pull
Entries 91
Mean 72.53
Std Dev 31.17
pull1D
Entries 91
Mean 0.006747
Std Dev 0.231

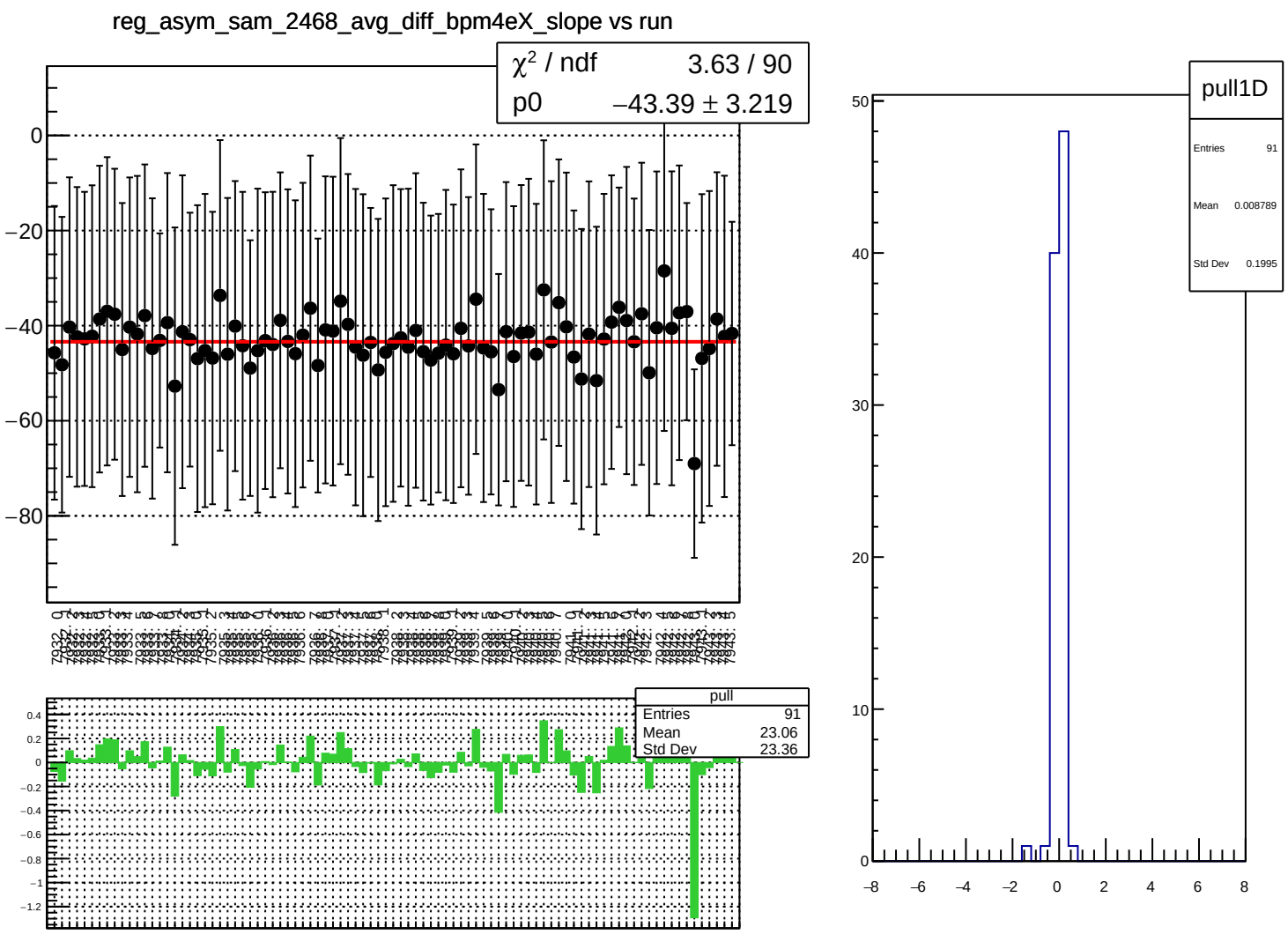

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.368 / 90
p0 9.099 ± 2.1
pull
Entries 91
Mean −9016
Std Dev 0
pull1D
Entries 91
Mean 4.981e−05
Std Dev 0.2191

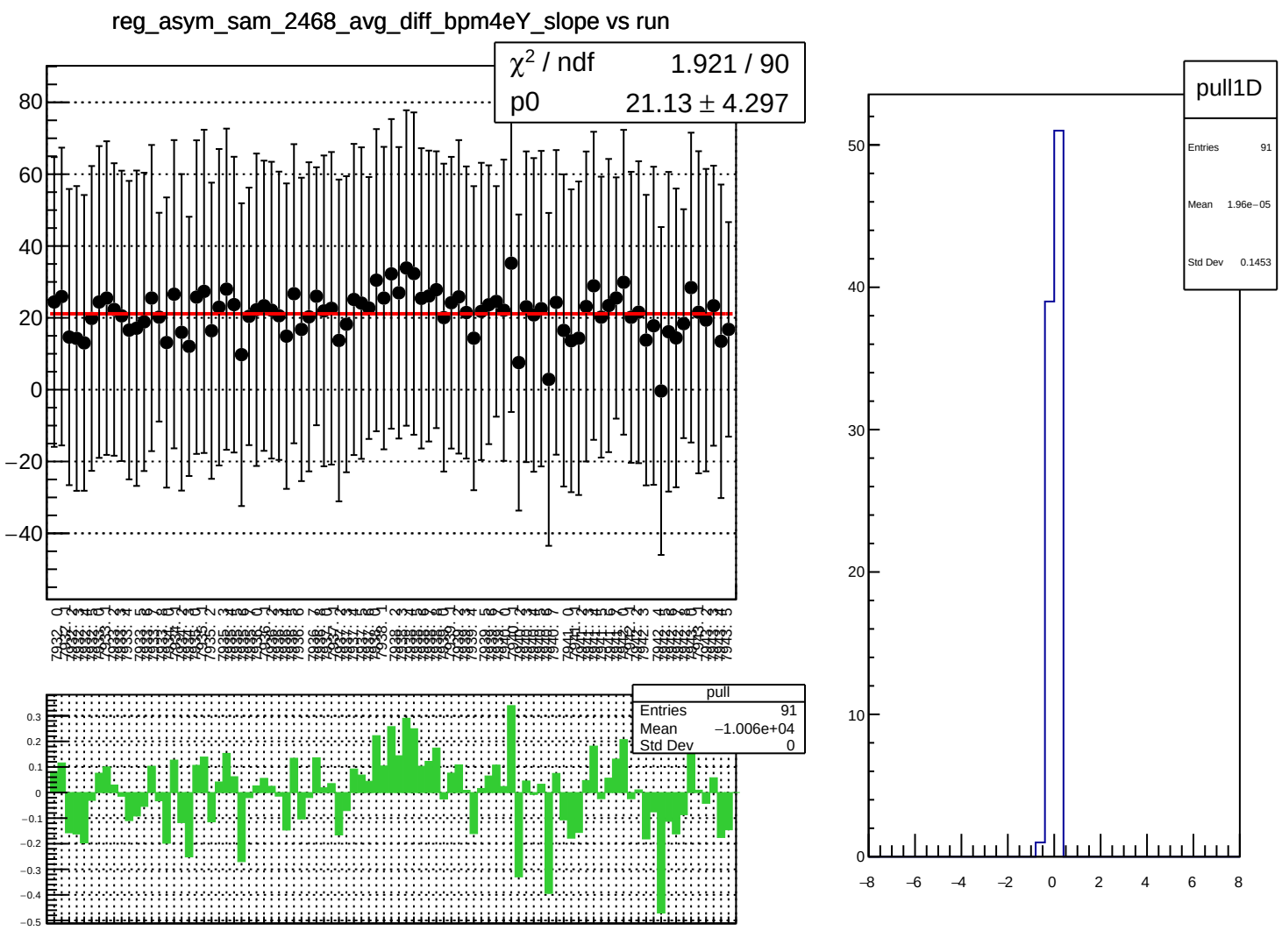

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.371 / 90
p0 −0.4712 ± 0.05885
pull
Entries 91
Mean −141.9
Std Dev 0

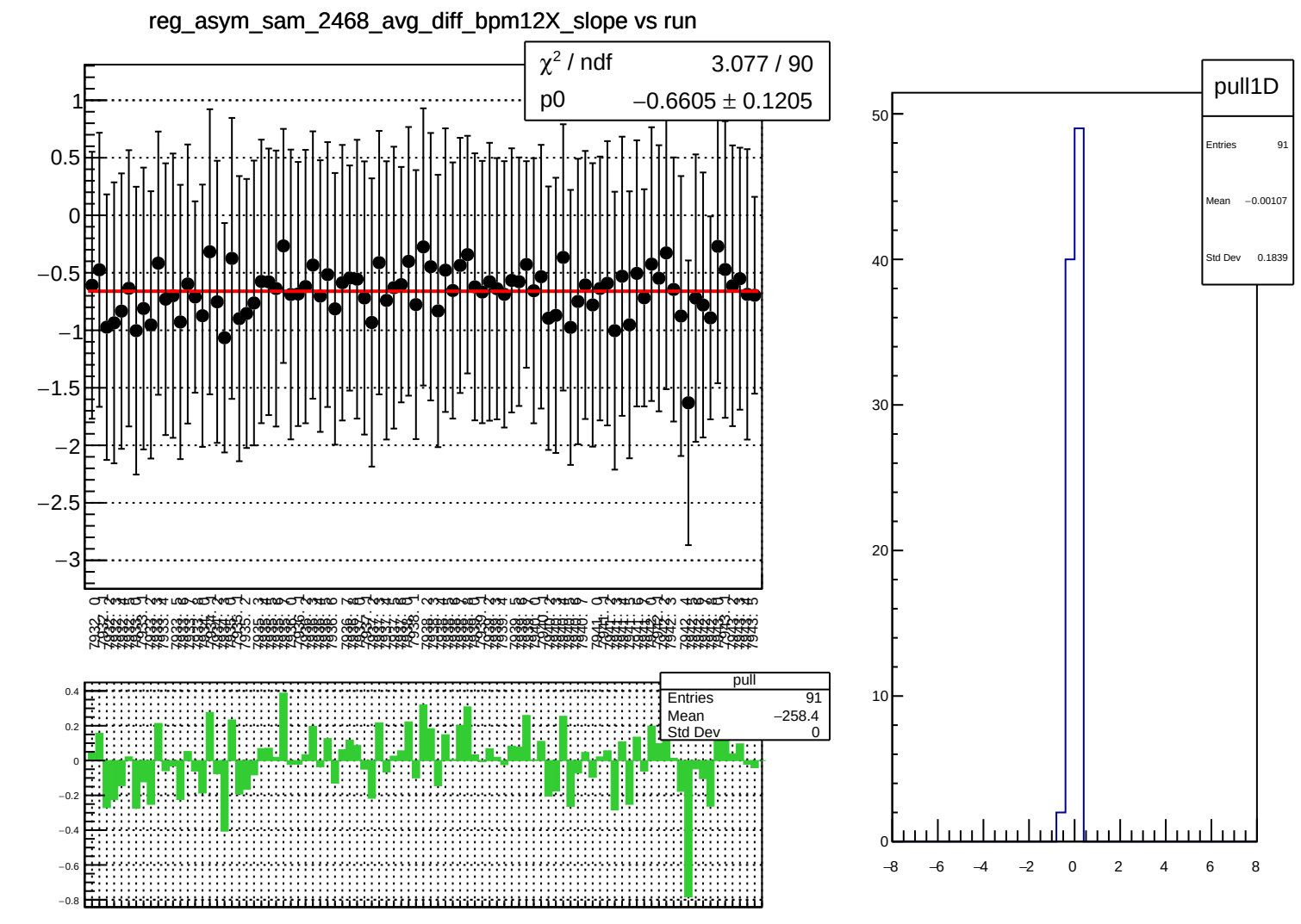

pull1D
Entries 91
Mean −0.002084
Std Dev 0.2646

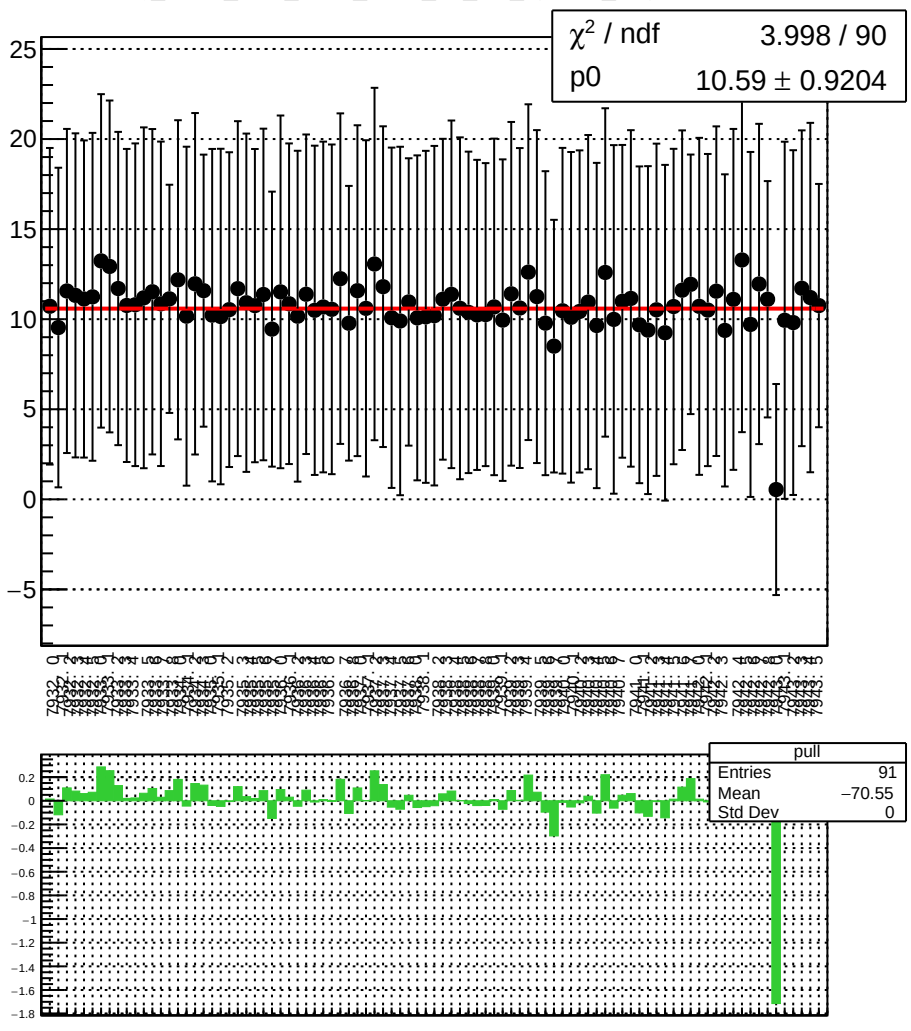

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 4.033 / 90
p0 −54.21 ± 3.578
pull
Entries 91
Mean −70.84
Std Dev 0
pull1D
Entries 91
Mean −0.009669
Std Dev 0.2103

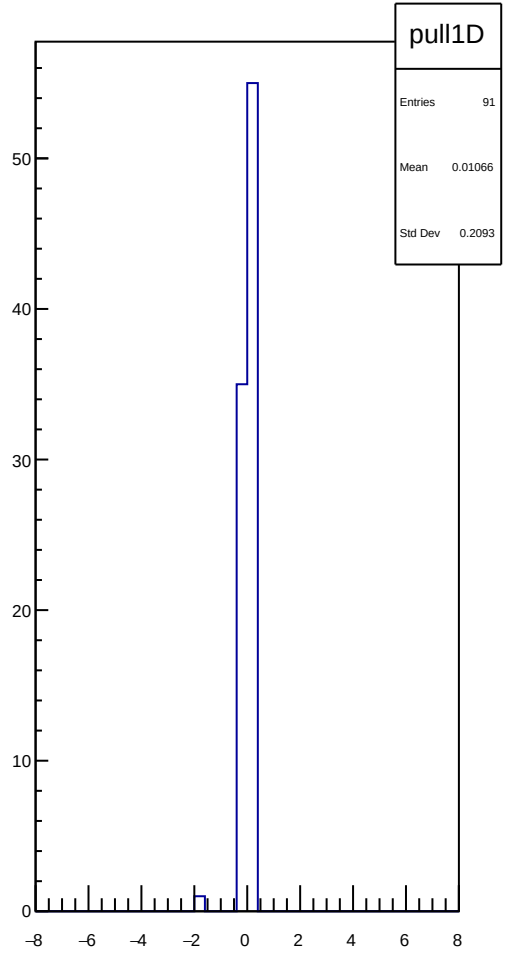

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.889 / 90
p0 20 ± 3.727
pull
Entries 91
Mean −2007
Std Dev 0
pull1D
Entries 91
Mean −8.402e−05
Std Dev 0.1441

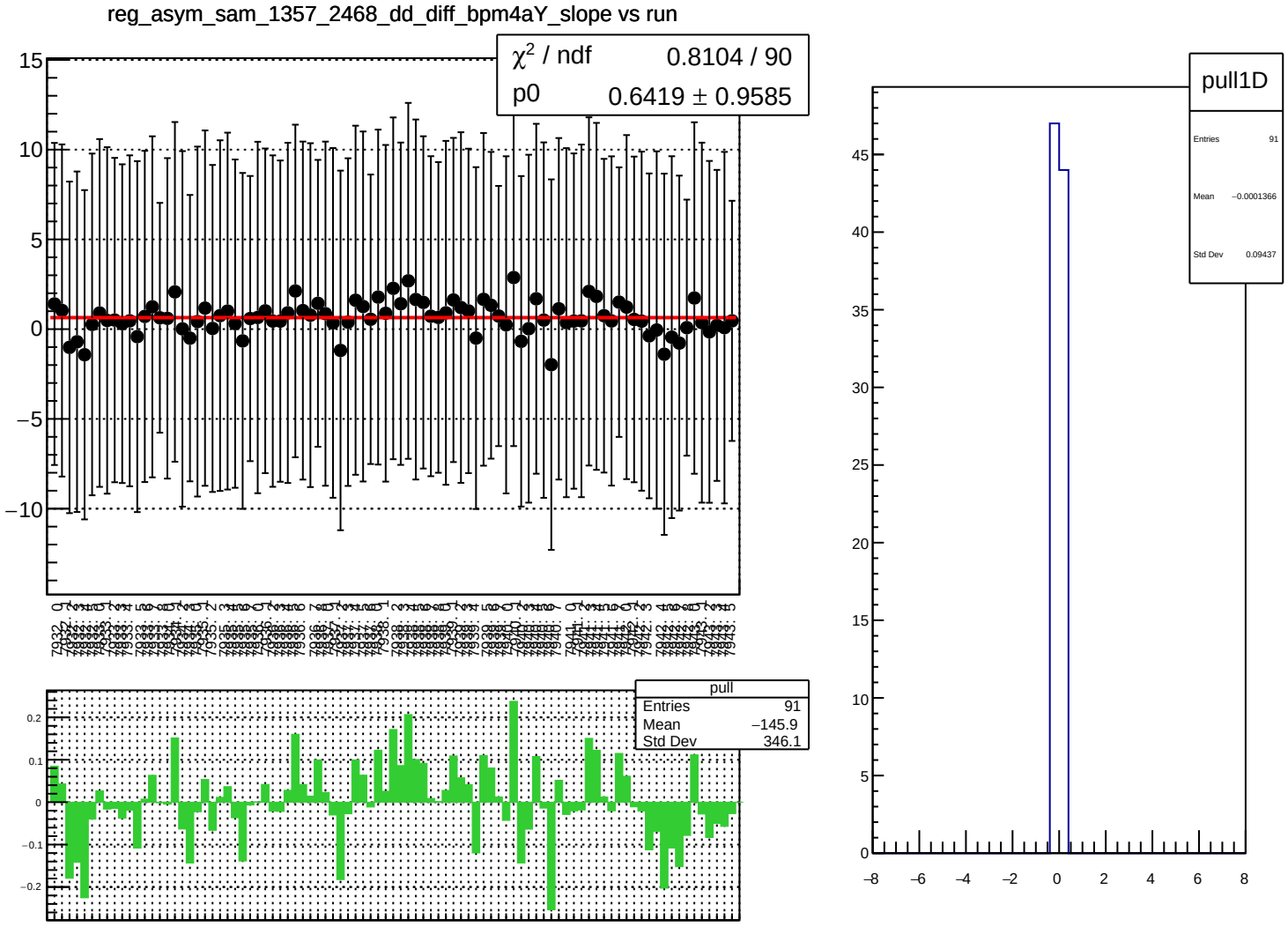

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.63 / 90
p0 −43.39 ± 3.219
0
−20
−40
−60
−80
pull
Entries 91
Mean 23.06
Std Dev 23.36
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 91
Mean 0.008789
Std Dev 0.1995
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

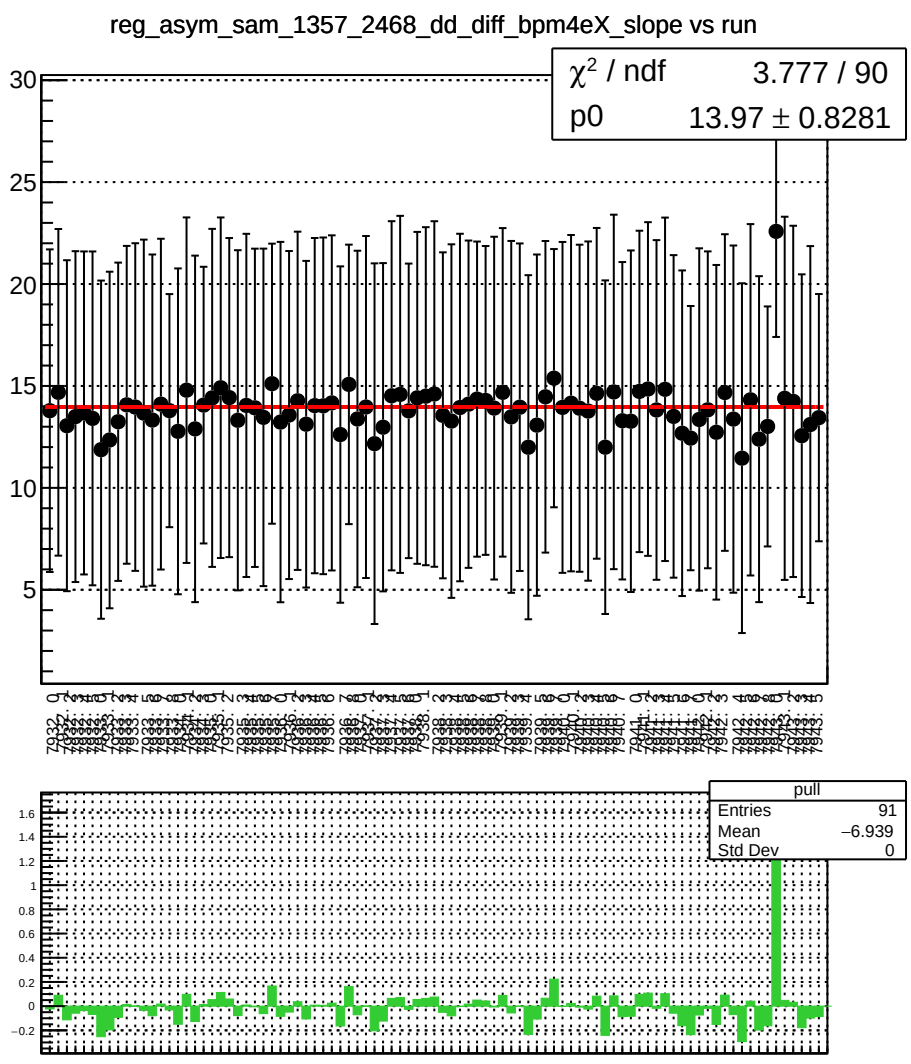

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.921 / 90
p0 21.13 ± 4.297
pull
Entries 91
Mean −1.006e+04
Std Dev 0
pull1D
Entries 91
Mean 1.96e−05
Std Dev 0.1453

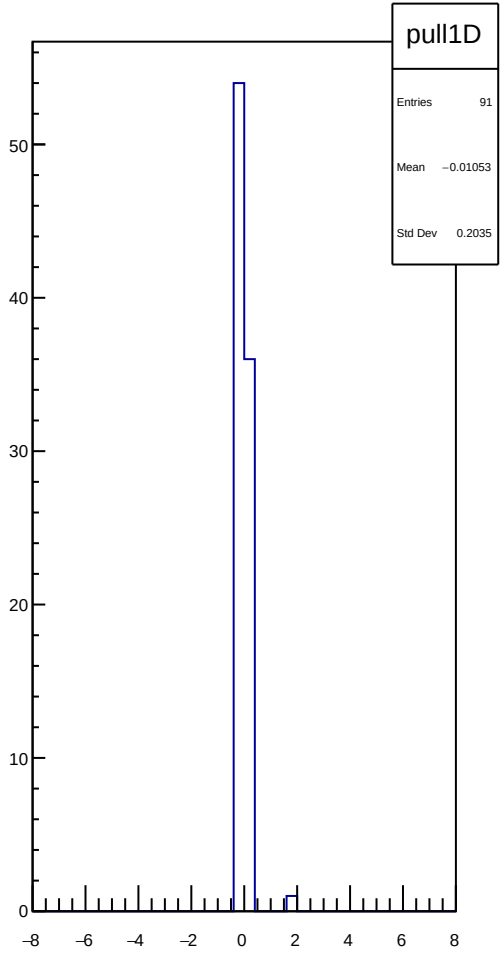

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.077 / 90
p0 −0.6605 ± 0.1205
pull
Entries 91
Mean −258.4
Std Dev 0
pull1D
Entries 91
Mean −0.00107
Std Dev 0.1839

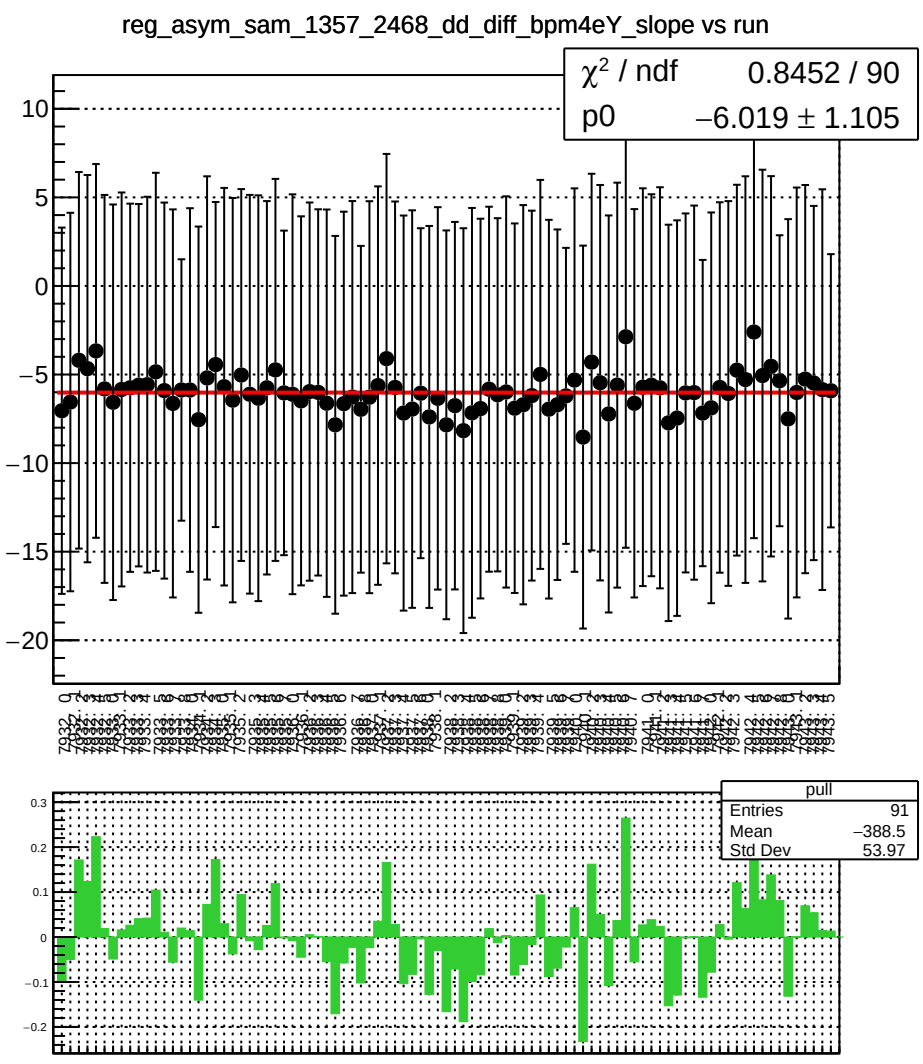

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 3.998 / 90
p0 10.59 ± 0.9204
pull
Entries 91
Mean −70.55
Std Dev 0

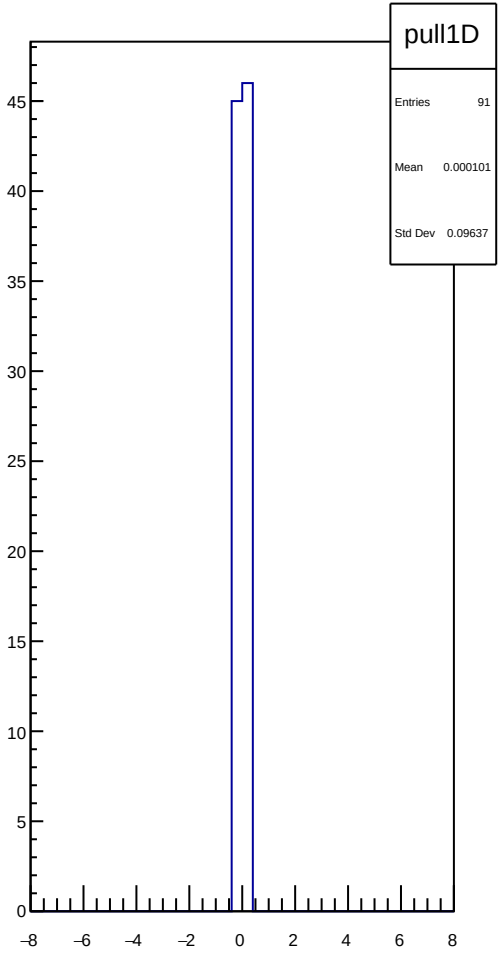

pull1D
Entries 91
Mean 0.01066
Std Dev 0.2093

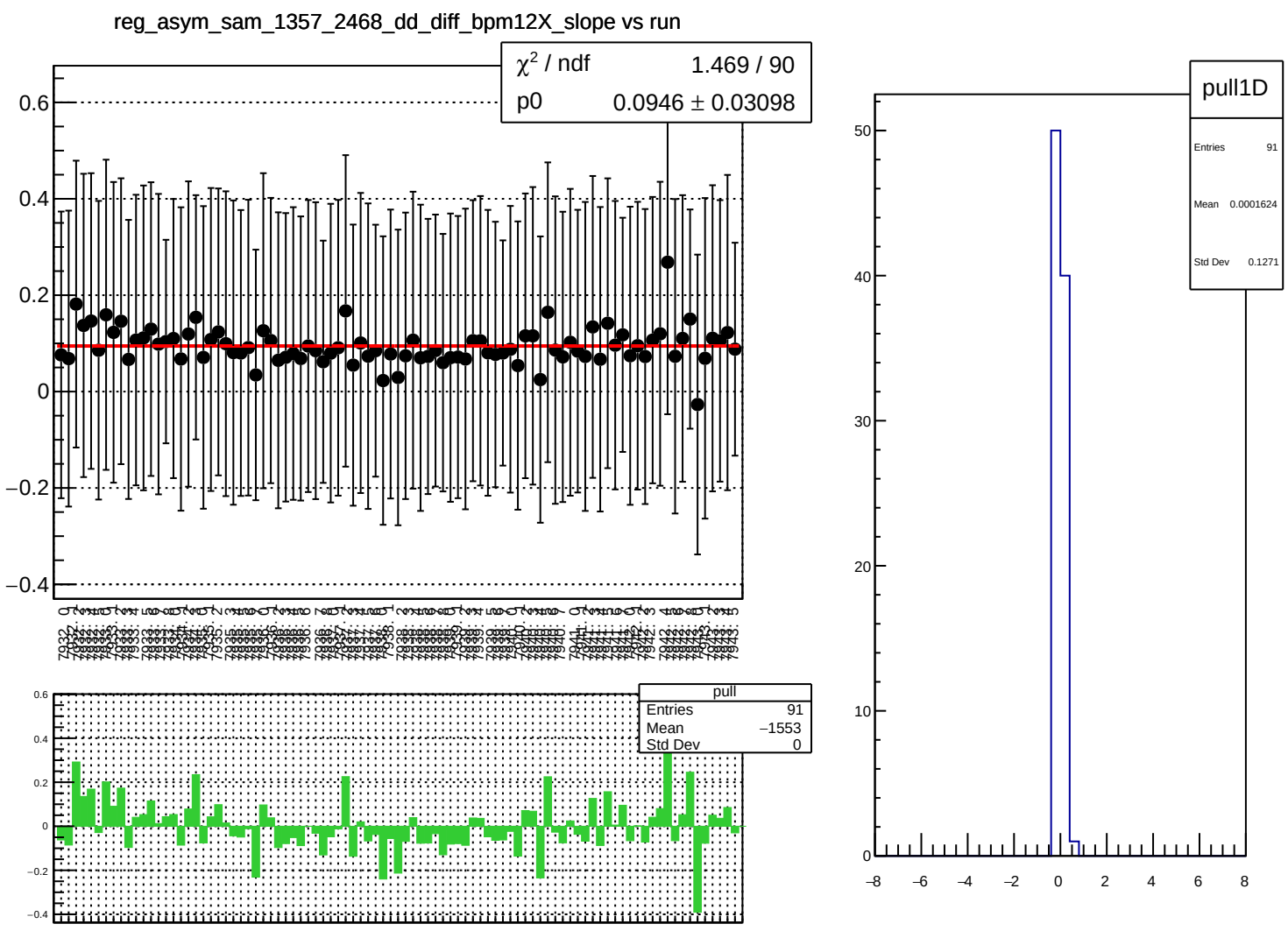

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8104 / 90
p0 0.6419 ± 0.9585
pull
Entries 91
Mean −145.9
Std Dev 346.1
pull1D
Entries 91
Mean −0.0001366
Std Dev 0.09437

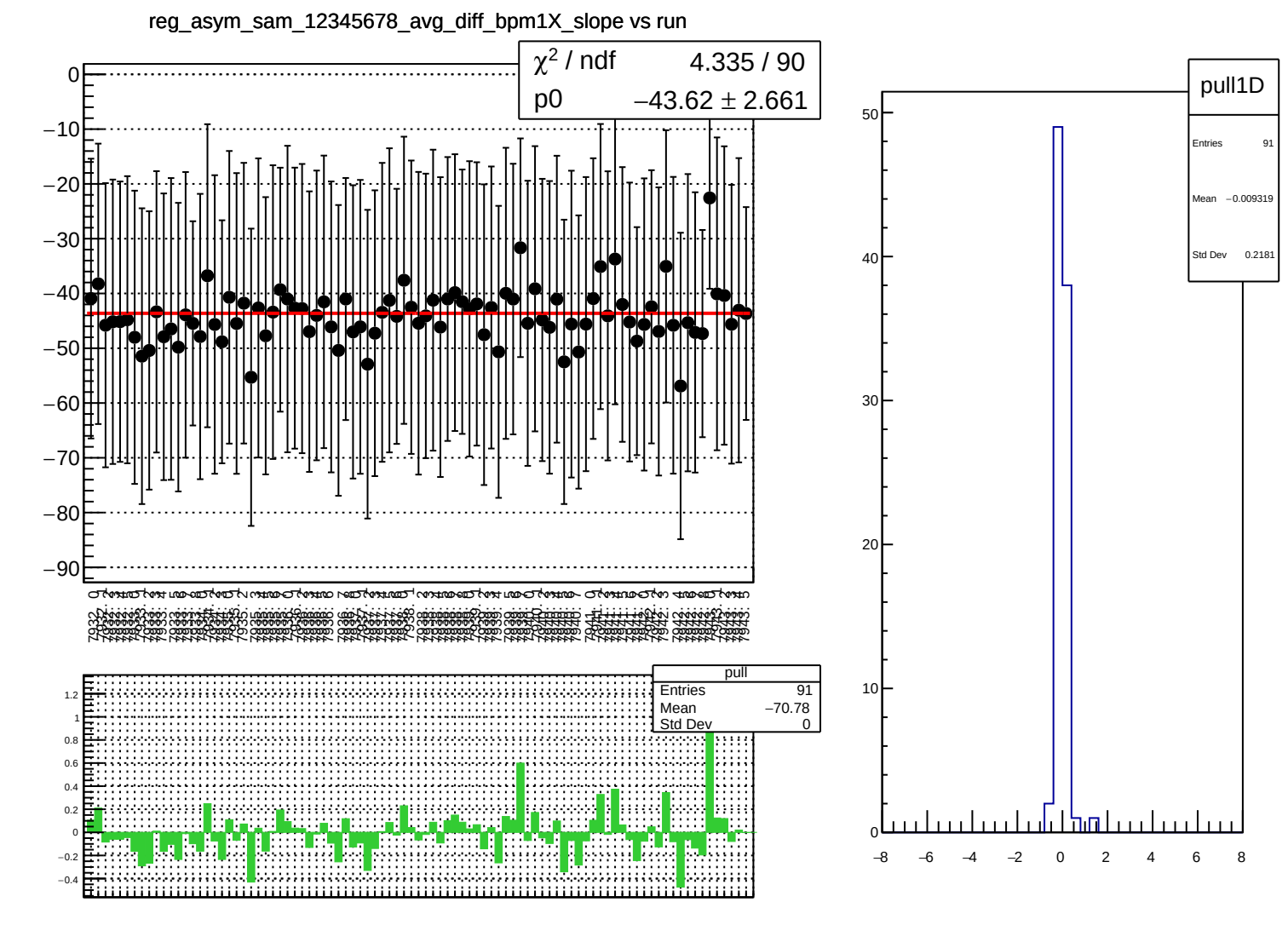

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.777 / 90
p0 13.97 ± 0.8281
pull
Entries 91
Mean −6.939
Std Dev 0

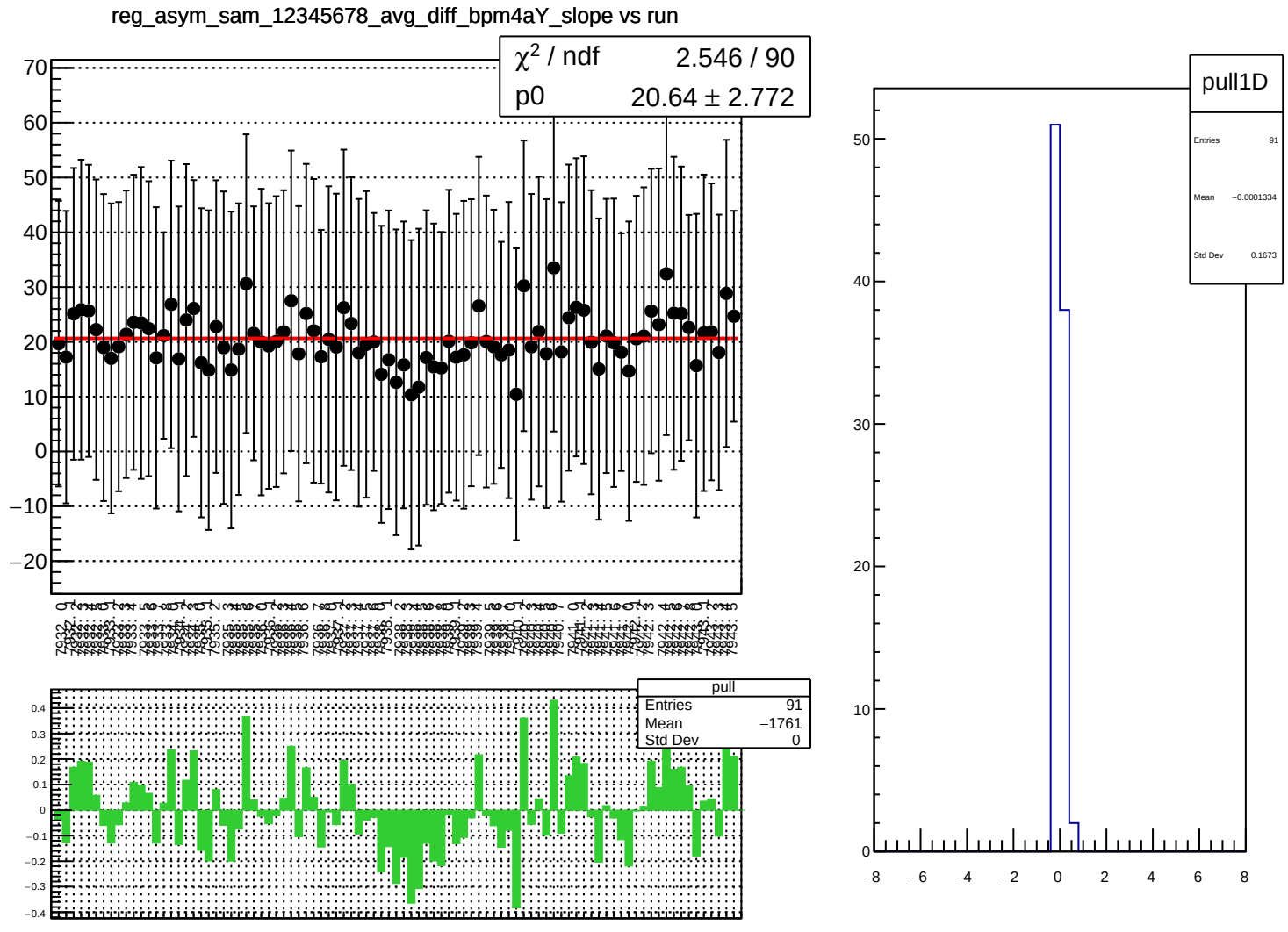

pull1D
Entries 91
Mean −0.01053
Std Dev 0.2035

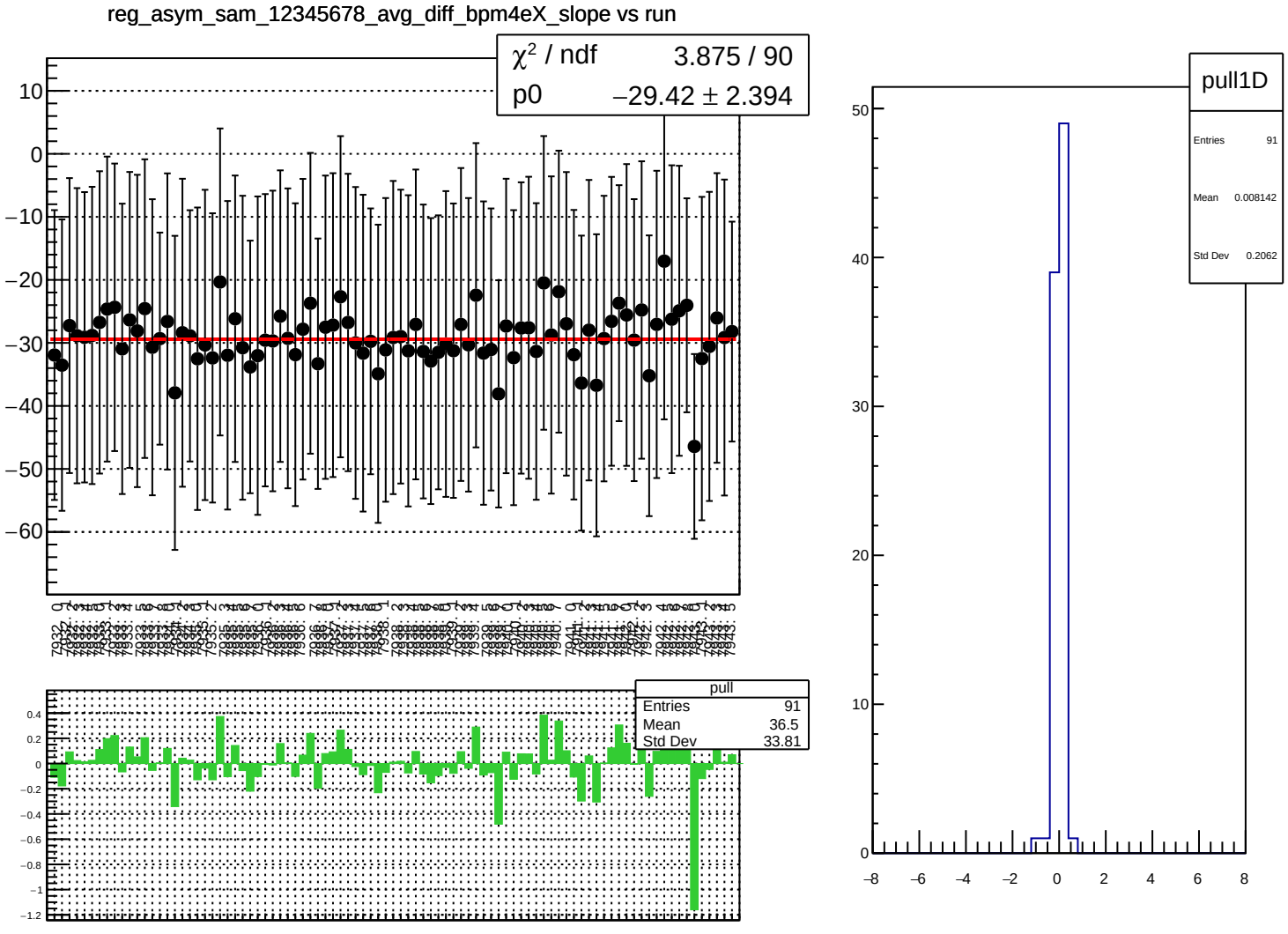

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8452 / 90
p0 −6.019 ± 1.105
pull
Entries 91
Mean −388.5
Std Dev 53.97

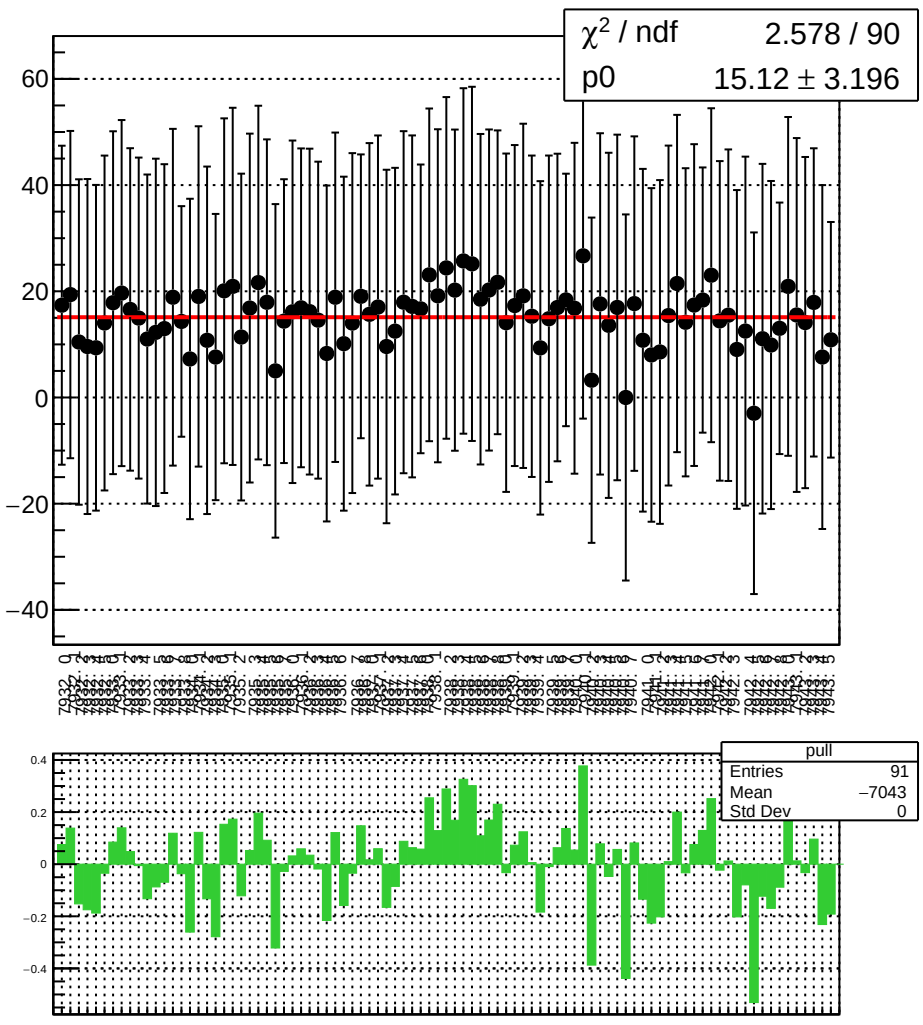

pull1D
Entries 91
Mean 0.000101
Std Dev 0.09637

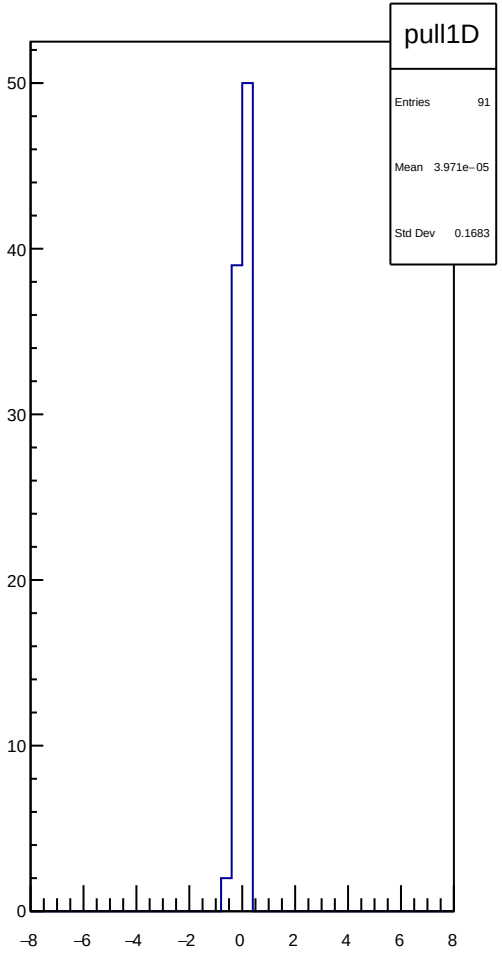

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.469 / 90
p0 0.0946 ± 0.03098
pull
Entries 91
Mean −1553
Std Dev 0
pull1D
Entries 91
Mean 0.0001624
Std Dev 0.1271

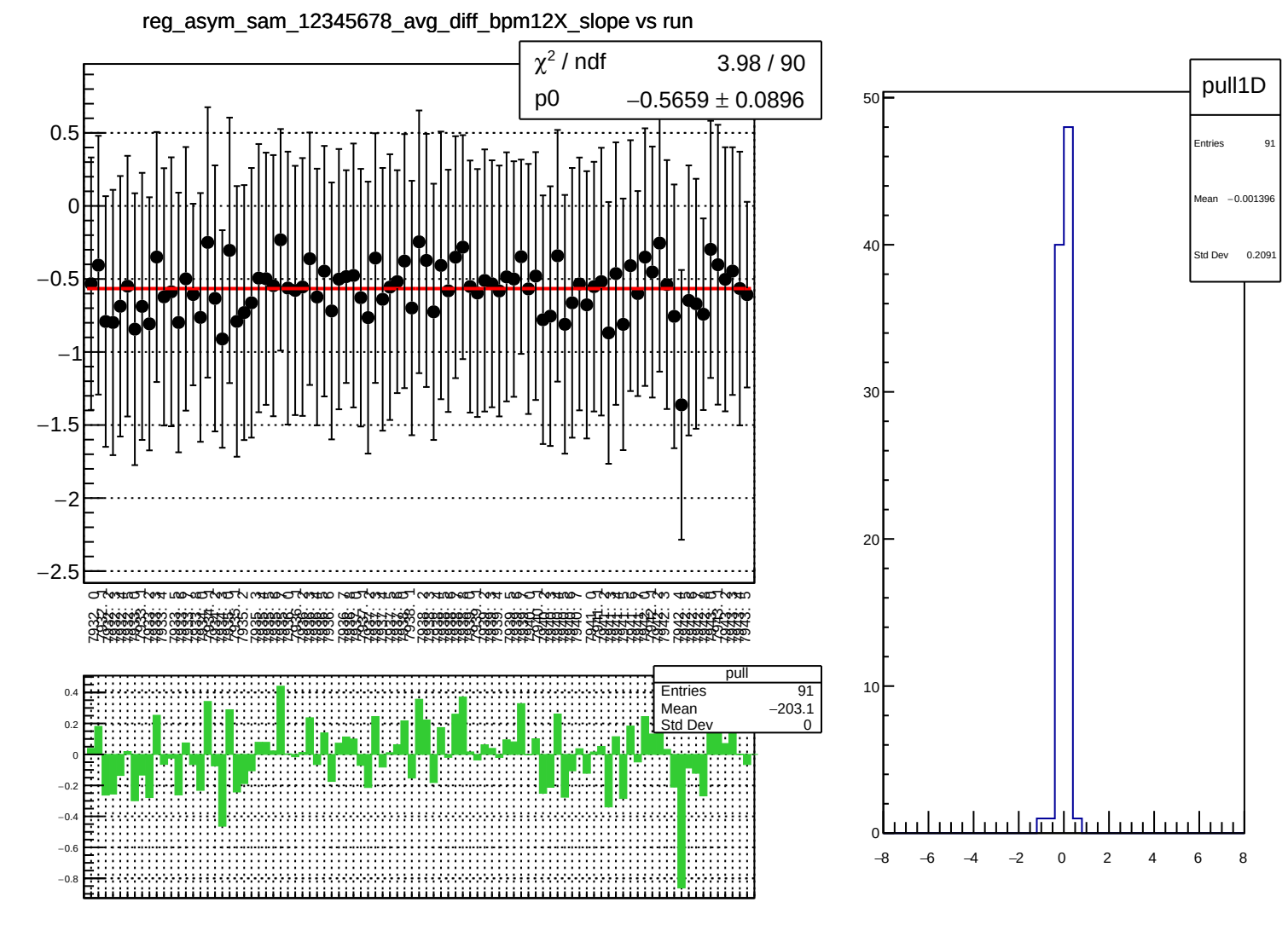

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.335 / 90
p0 −43.62 ± 2.661
pull
Entries 91
Mean −70.78
Std Dev 0
pull1D
Entries 91
Mean −0.009319
Std Dev 0.2181

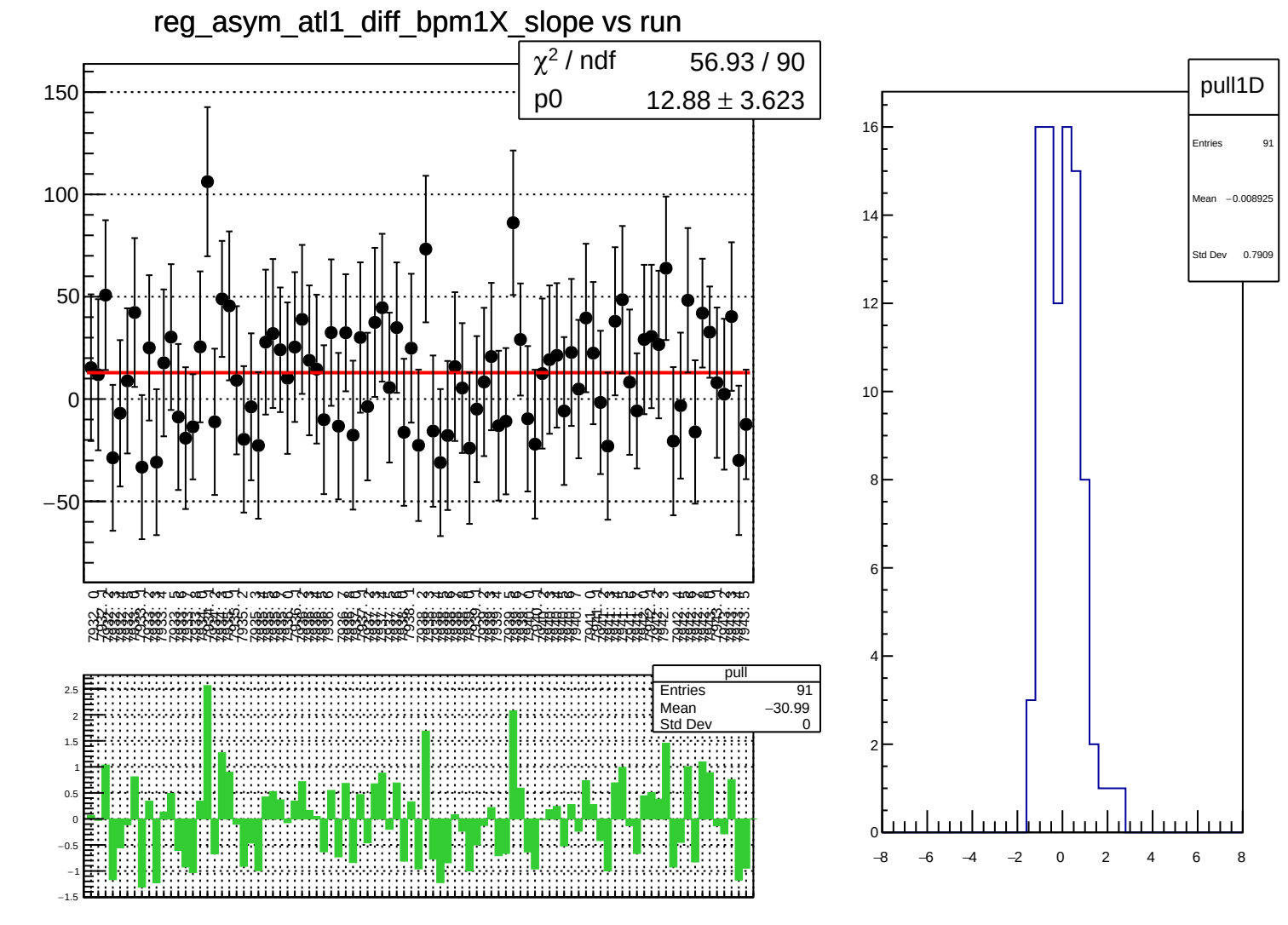

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.546 / 90
p0 20.64 ± 2.772
pull
Entries 91
Mean −1761
Std Dev 0
pull1D
Entries 91
Mean −0.0001334
Std Dev 0.1673

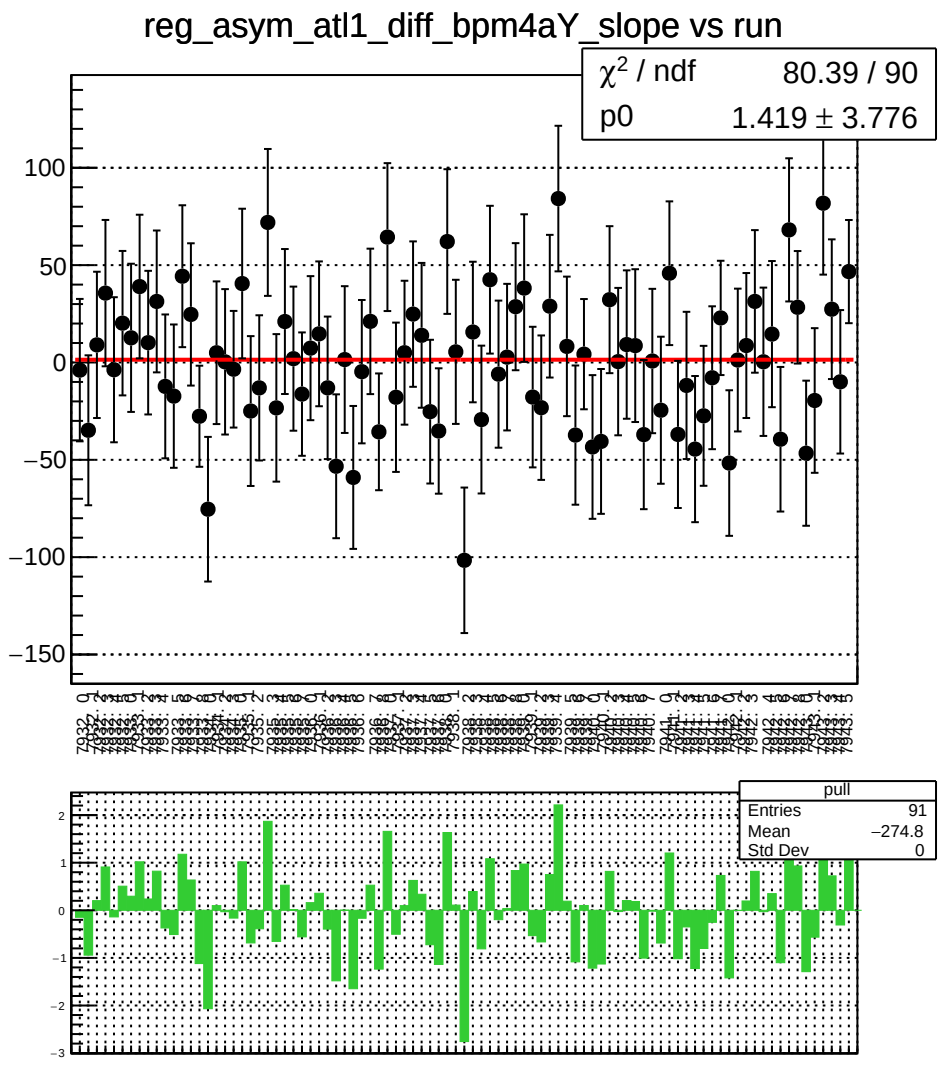

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.875 / 90
p0 −29.42 ± 2.394
pull
Entries 91
Mean 36.5
Std Dev 33.81
pull1D
Entries 91
Mean 0.008142
Std Dev 0.2062

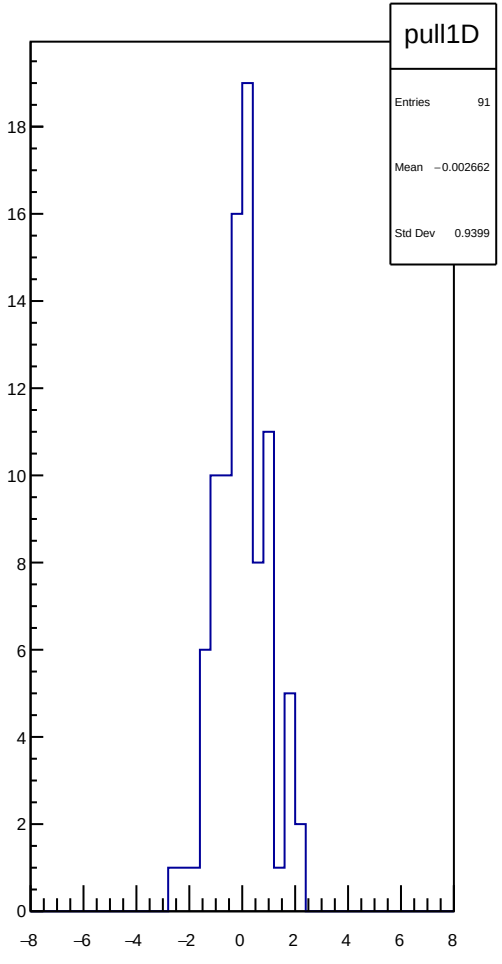

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.578 / 90
p0 15.12 ± 3.196
pull
Entries 91
Mean −7043
Std Dev 0

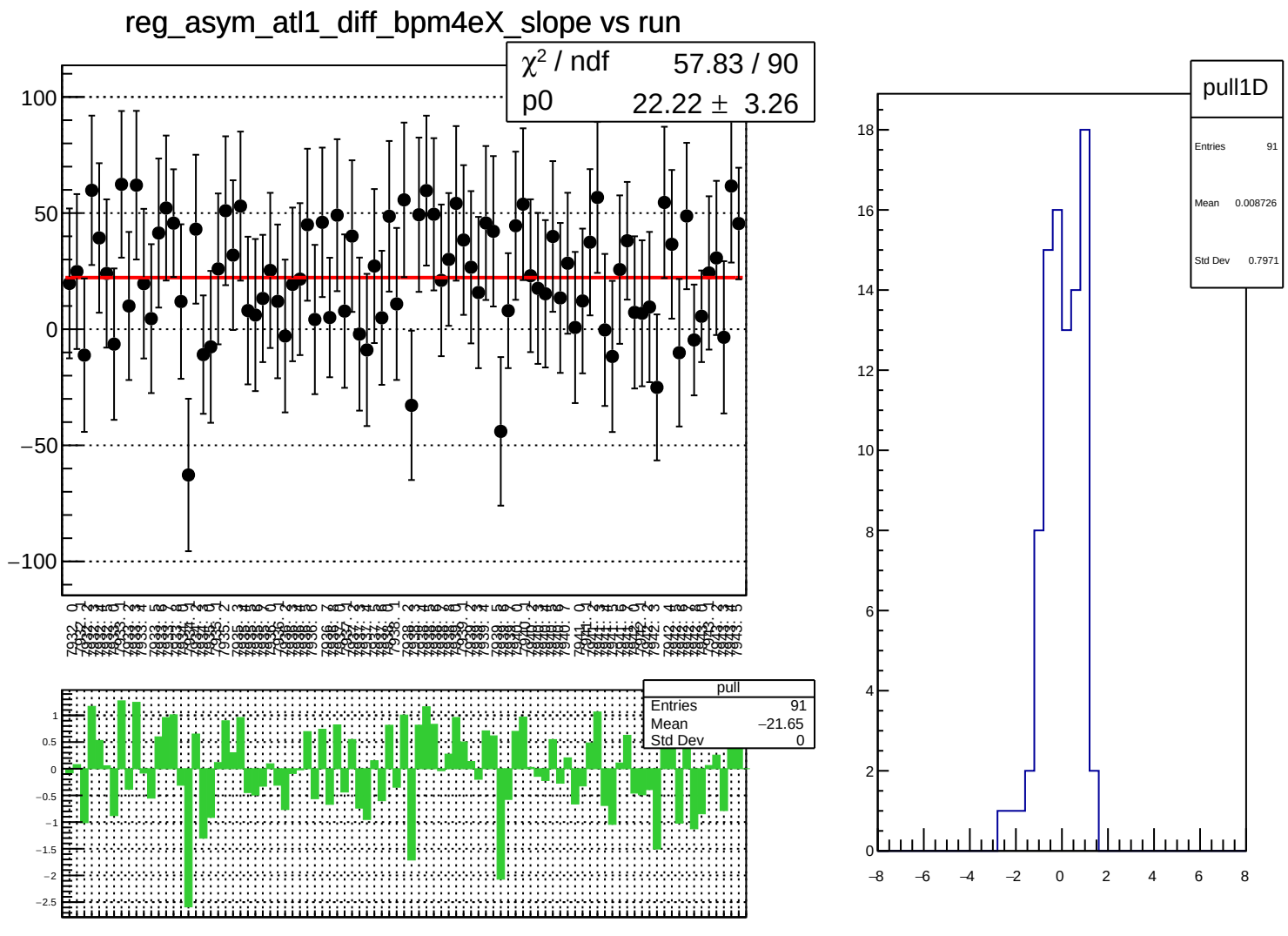

pull1D
Entries 91
Mean 3.971e−05
Std Dev 0.1683

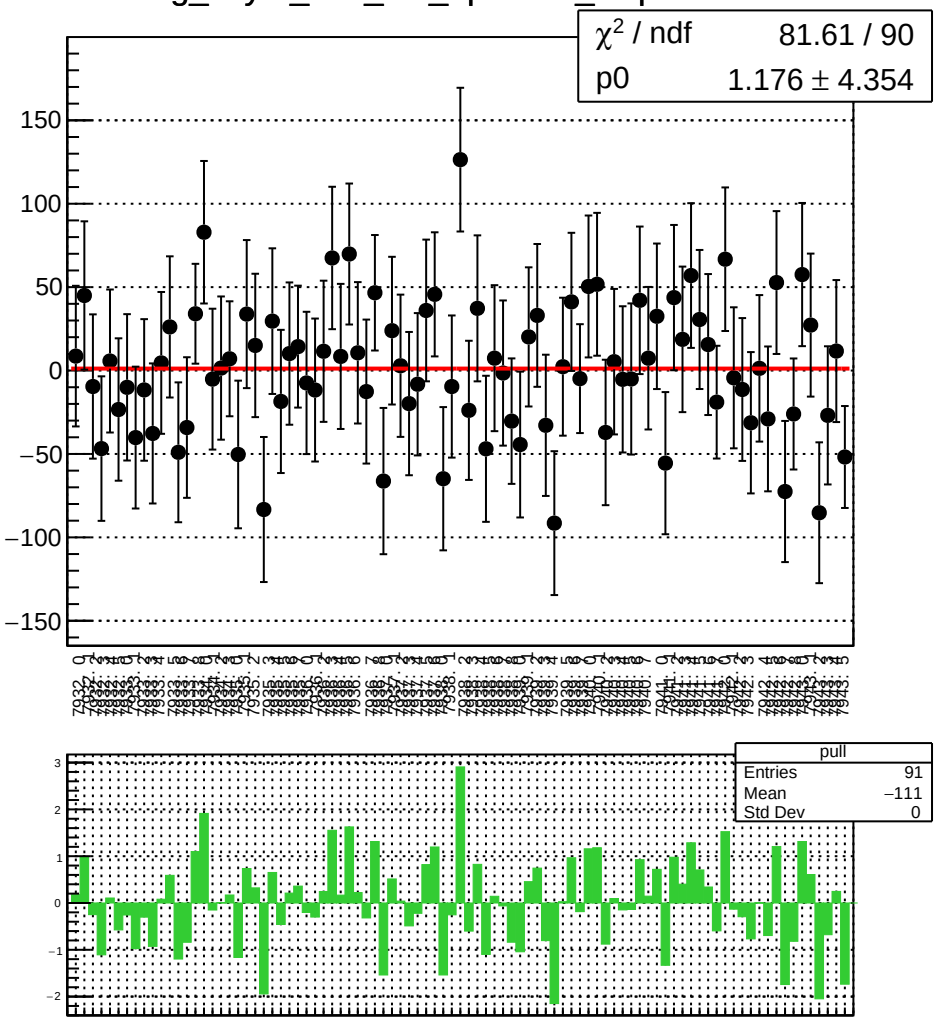

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.98 / 90
p0 −0.5659 ± 0.0896
pull
Entries 91
Mean −203.1
Std Dev 0
pull1D
Entries 91
Mean −0.001396
Std Dev 0.2091

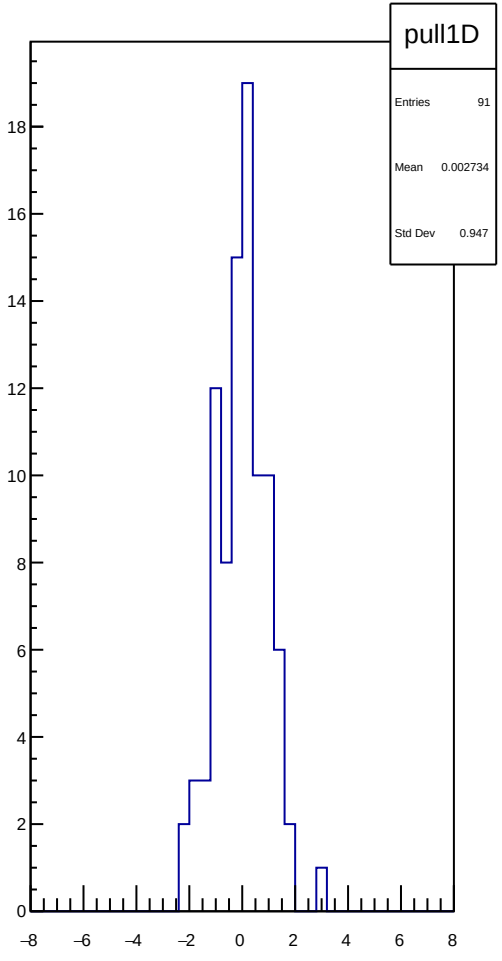

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 56.93 / 90
p0 12.88 ± 3.623
150
100
50
0
−50
pull
Entries 91
Mean −30.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.008925
Std Dev 0.7909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

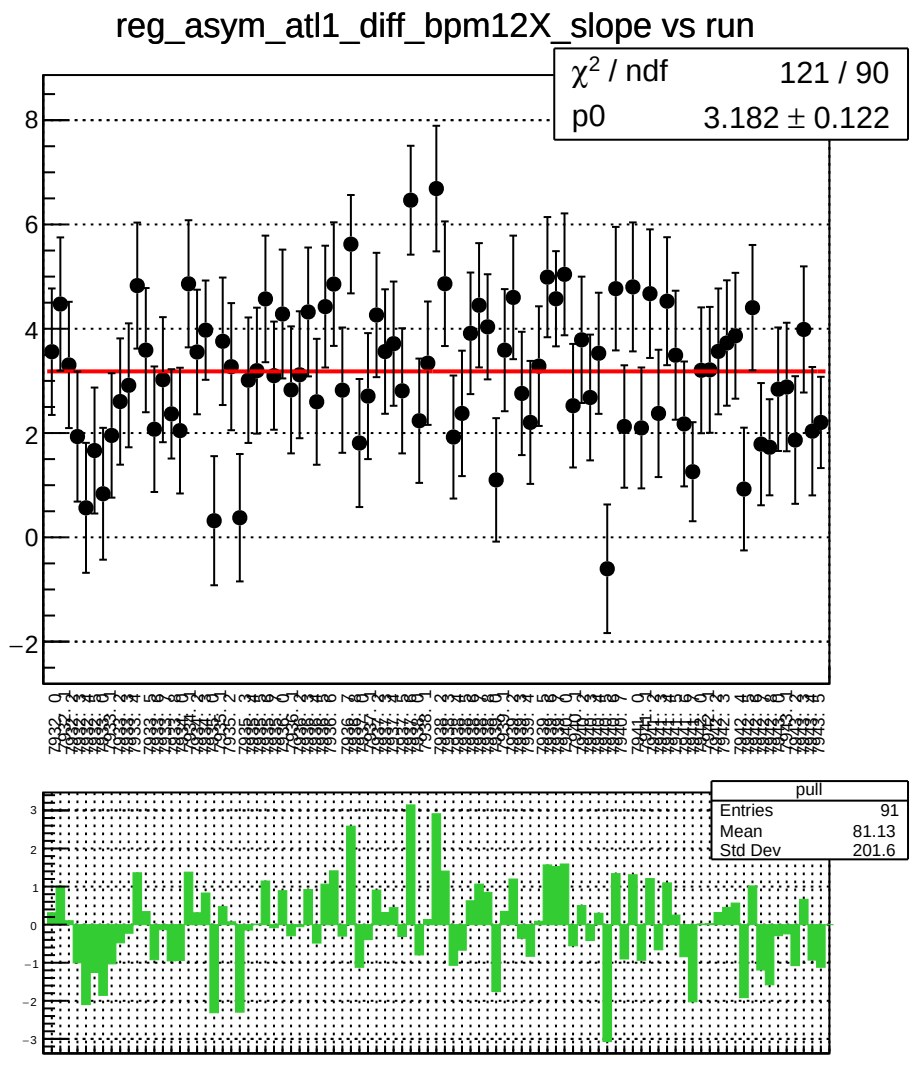

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 80.39 / 90
p0 1.419 ± 3.776
pull
Entries 91
Mean −274.8
Std Dev 0

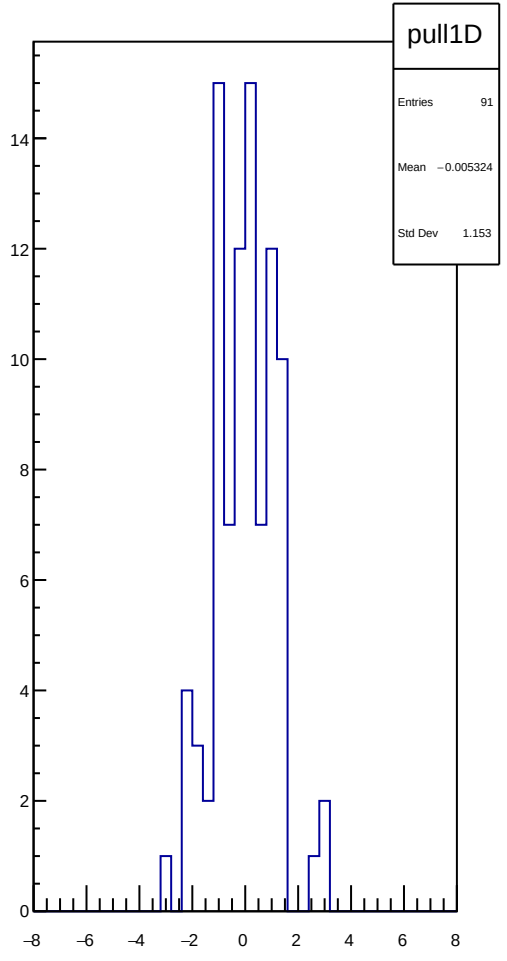

pull1D
Entries 91
Mean −0.002662
Std Dev 0.9399

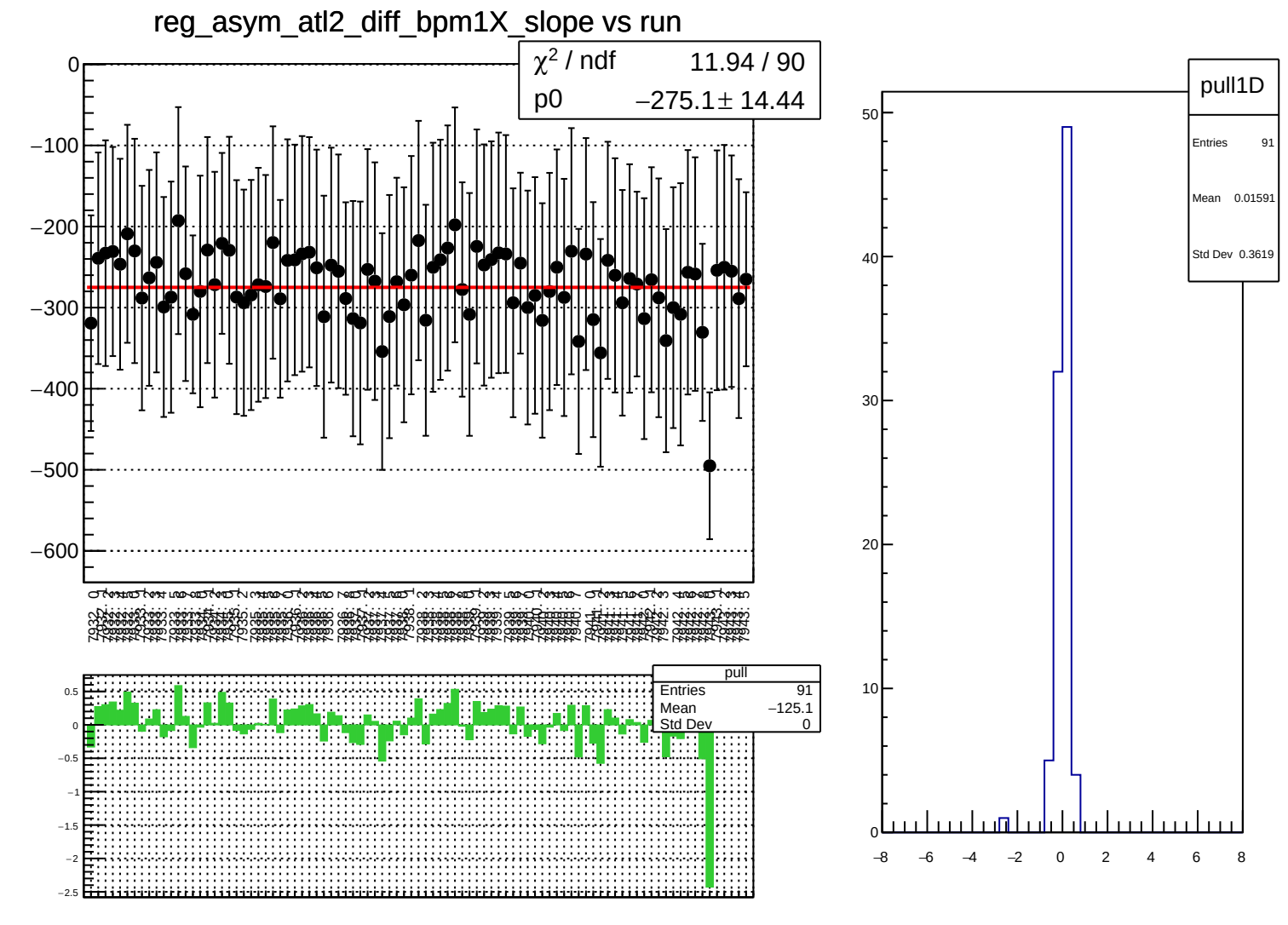

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 57.83 / 90
p0 22.22 ± 3.26
pull
Entries 91
Mean −21.65
Std Dev 0
pull1D
Entries 91
Mean 0.008726
Std Dev 0.7971

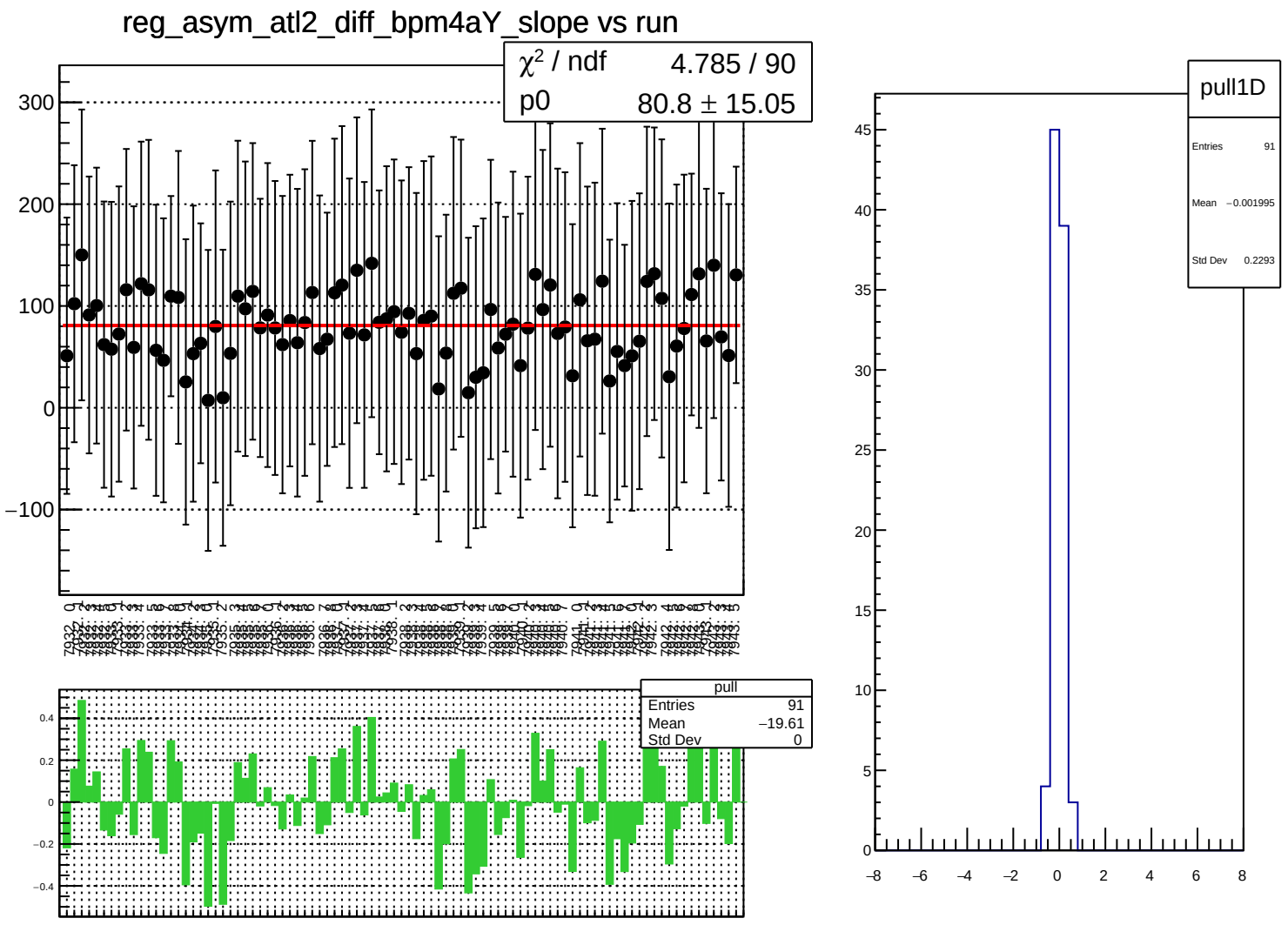

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 81.61 / 90
p0 1.176 ± 4.354
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −111
Std Dev 0
3
2
1
0
−1
−2

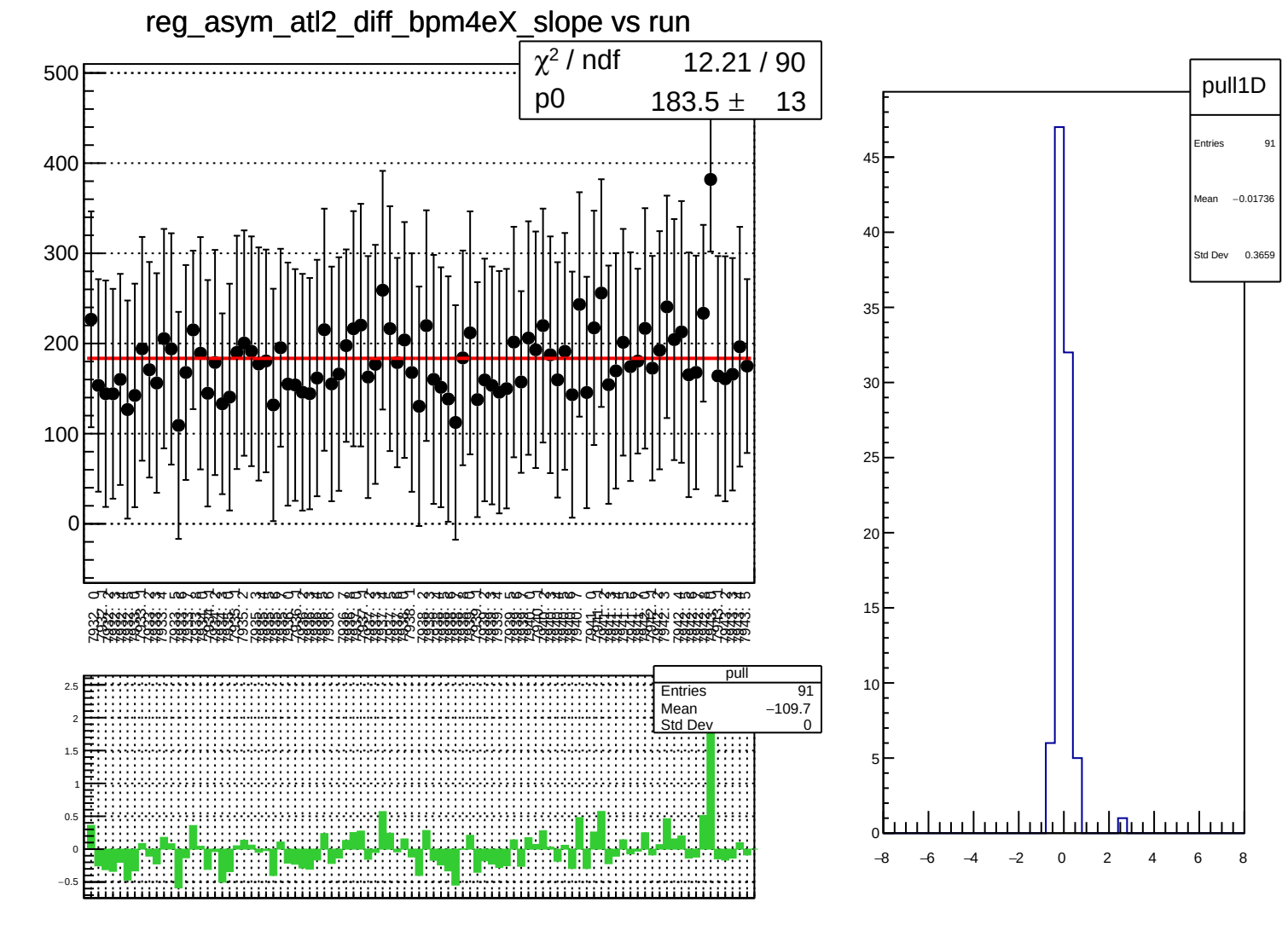

pull1D
Entries 91
Mean 0.002734
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

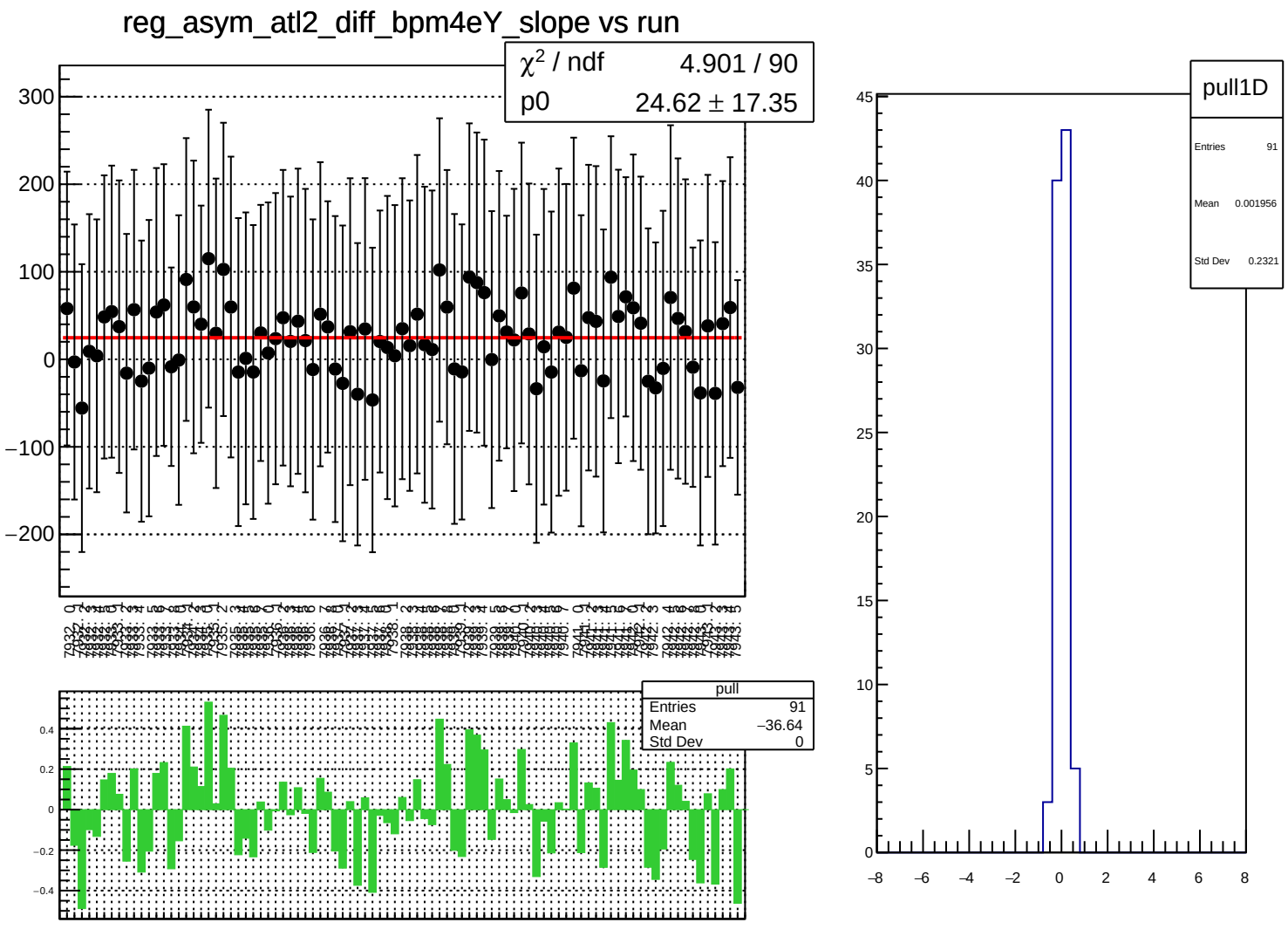

reg_asym_atl1_diff_bpm12X_slope vs run
χ^2 / ndf 121 / 90
p0 3.182 ± 0.122
pull
Entries 91
Mean 81.13
Std Dev 201.6

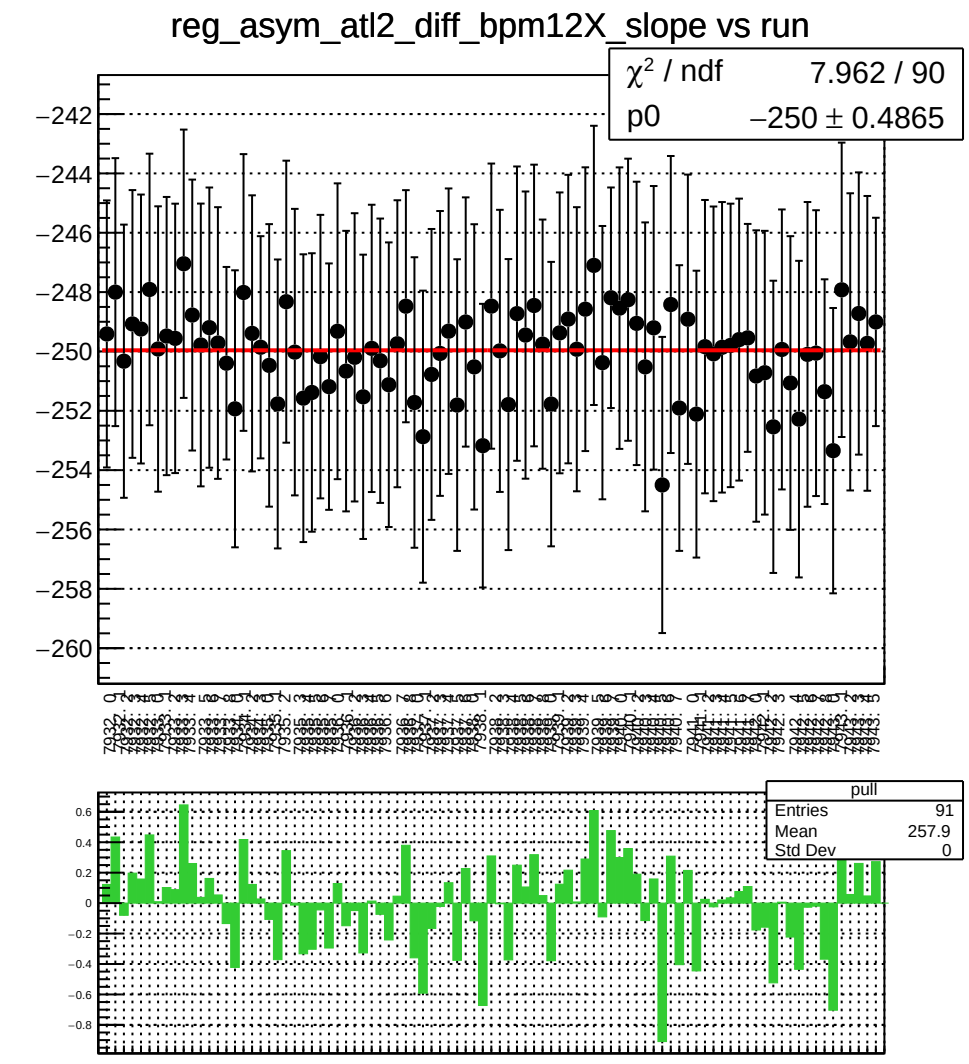

pull1D
Entries 91
Mean −0.005324
Std Dev 1.153

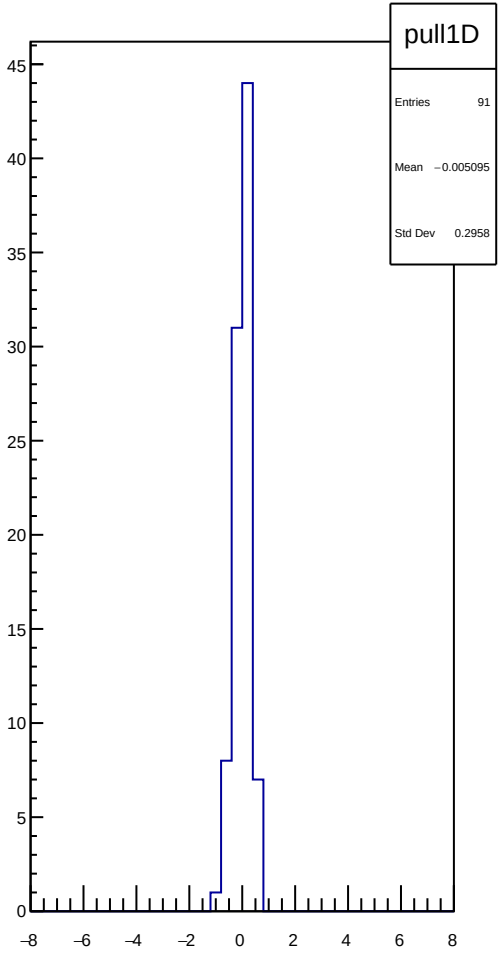

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 11.94 / 90
p0 −275.1 ± 14.44
pull
Entries 91
Mean −125.1
Std Dev 0
pull1D
Entries 91
Mean 0.01591
Std Dev 0.3619

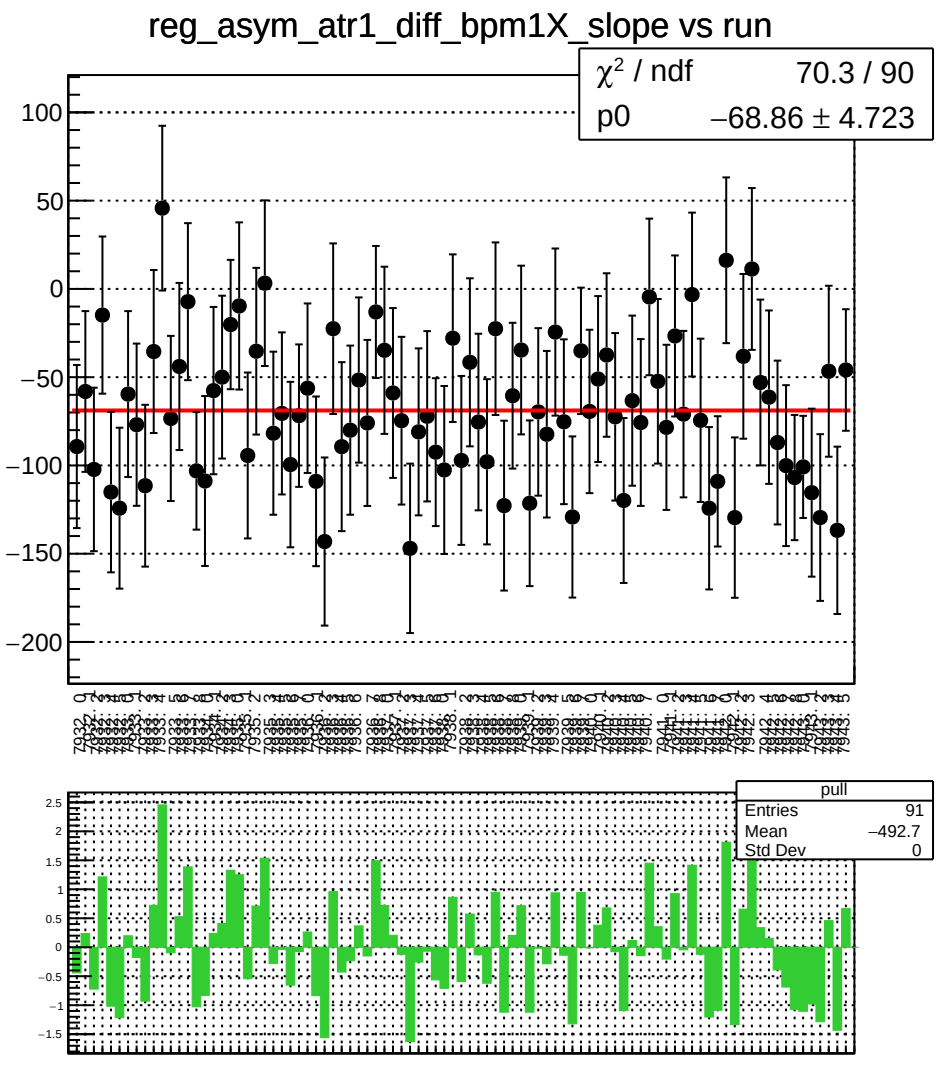

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.785 / 90
p0 80.8 ± 15.05
300
200
100
0
−100
pull
Entries 91
Mean −19.61
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean −0.001995
Std Dev 0.2293
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

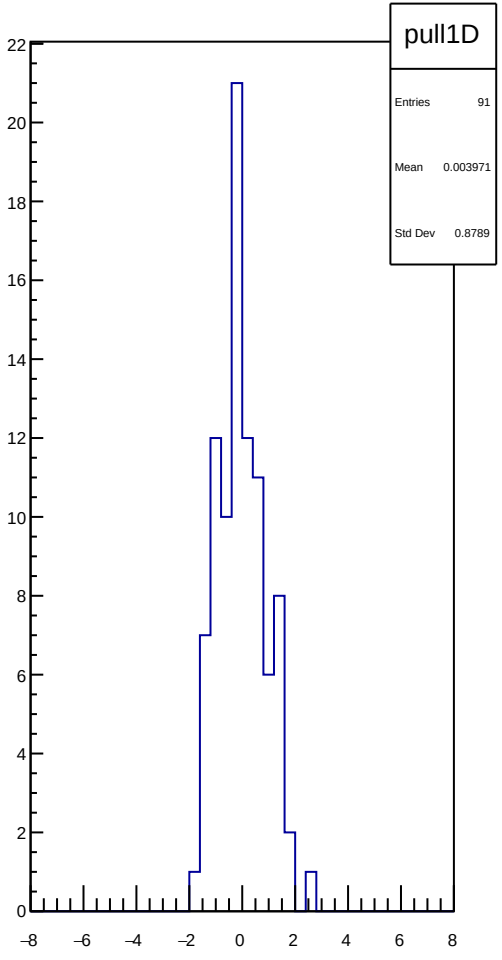

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 12.21 / 90
p0 183.5 ± 13
pull
Entries 91
Mean −109.7
Std Dev 0
pull1D
Entries 91
Mean −0.01736
Std Dev 0.3659

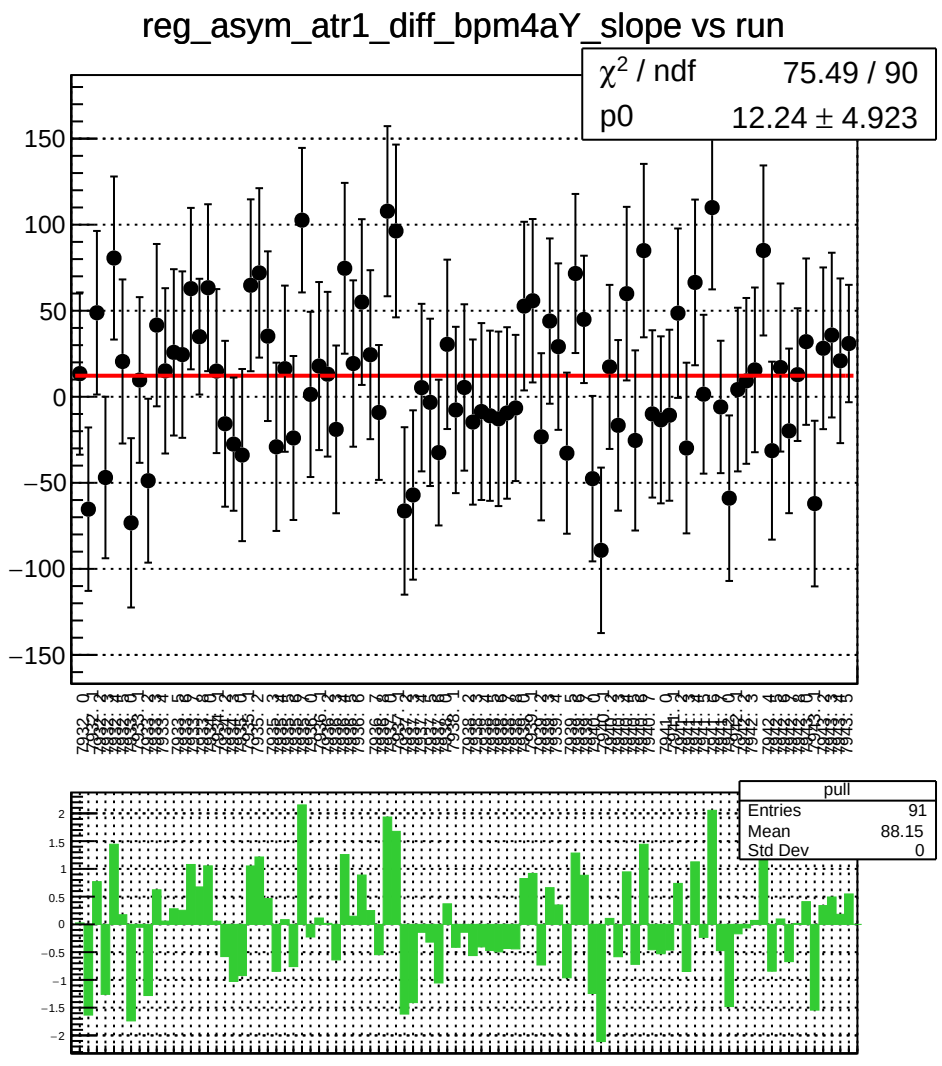

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.901 / 90
p0 24.62 ± 17.35
pull
Entries 91
Mean −36.64
Std Dev 0
pull1D
Entries 91
Mean 0.001956
Std Dev 0.2321

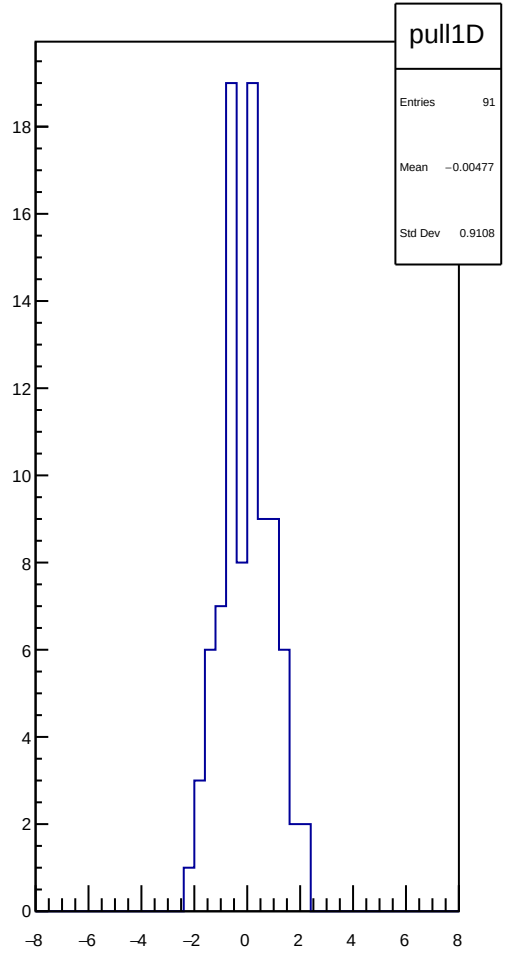

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 7.962 / 90
p0 −250 ± 0.4865
pull
Entries 91
Mean 257.9
Std Dev 0

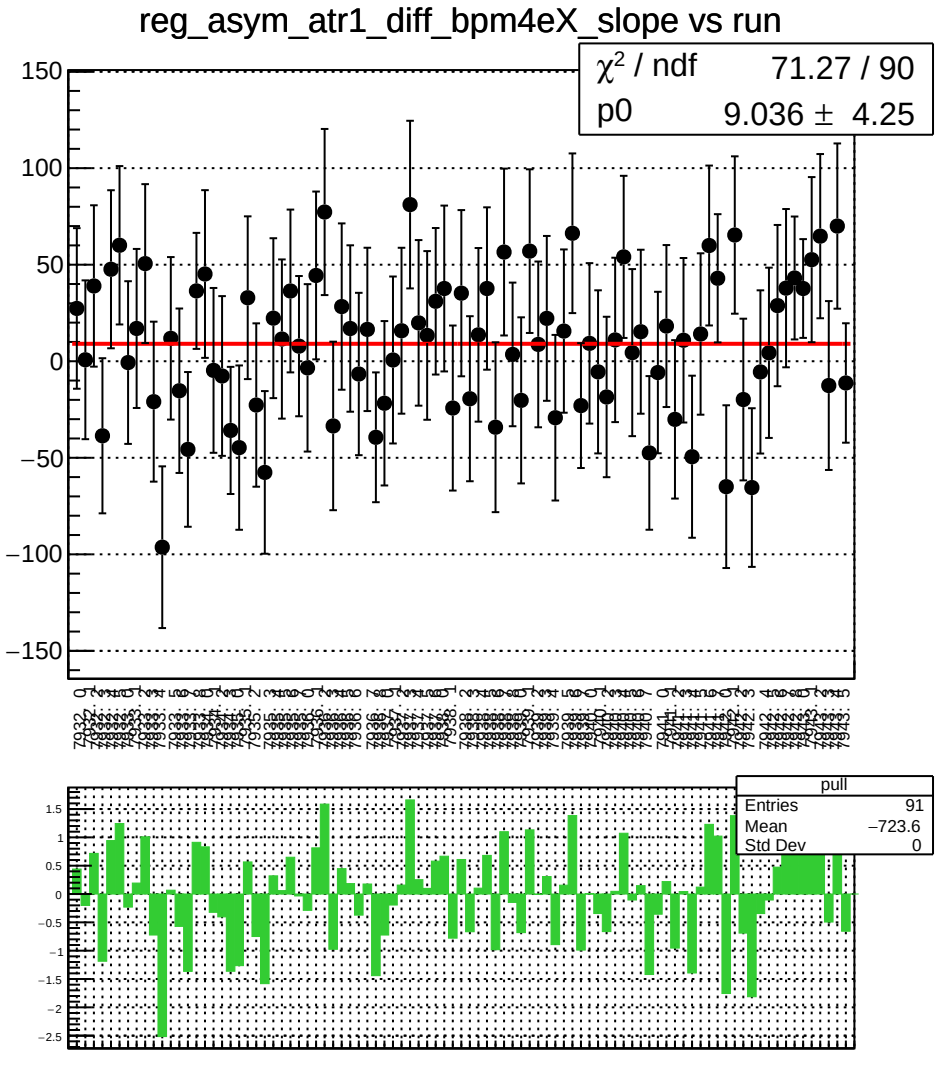

pull1D
Entries 91
Mean −0.005095
Std Dev 0.2958

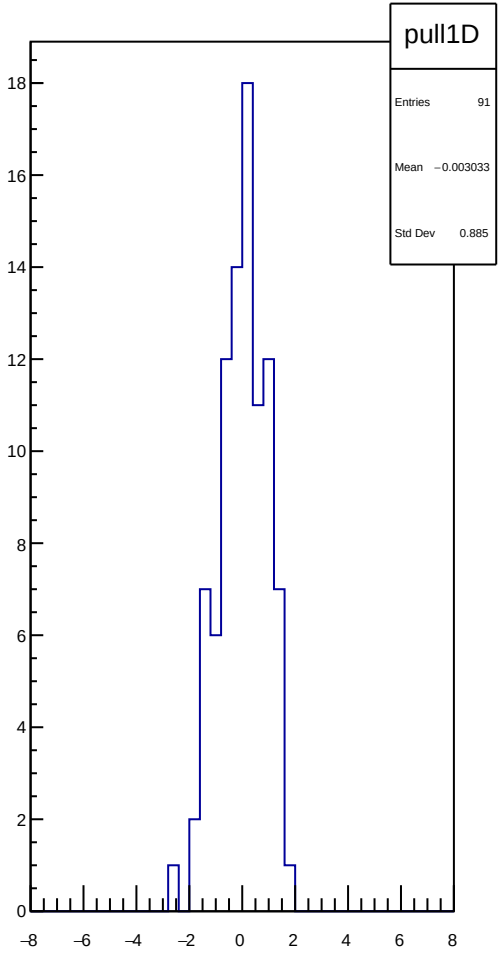

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 70.3 / 90
p0 −68.86 ± 4.723
pull
Entries 91
Mean −492.7
Std Dev 0

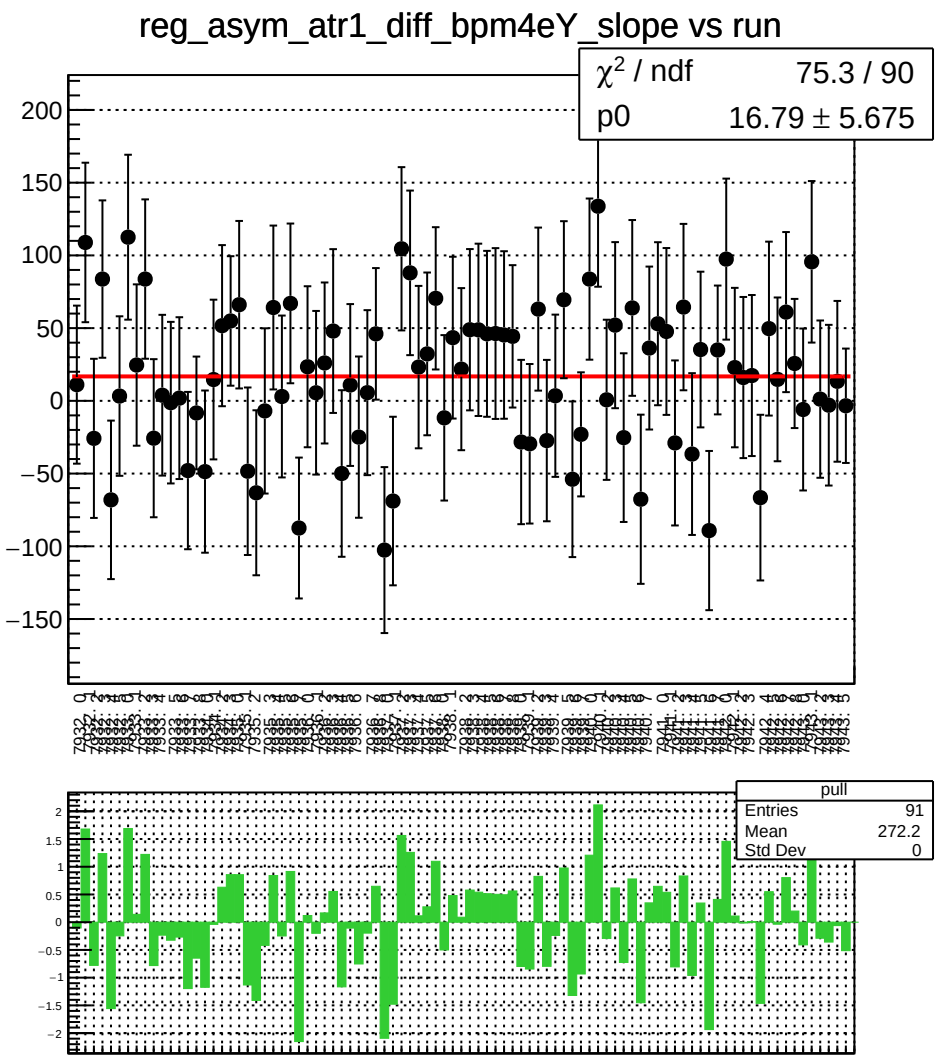

pull1D
Entries 91
Mean 0.003971
Std Dev 0.8789

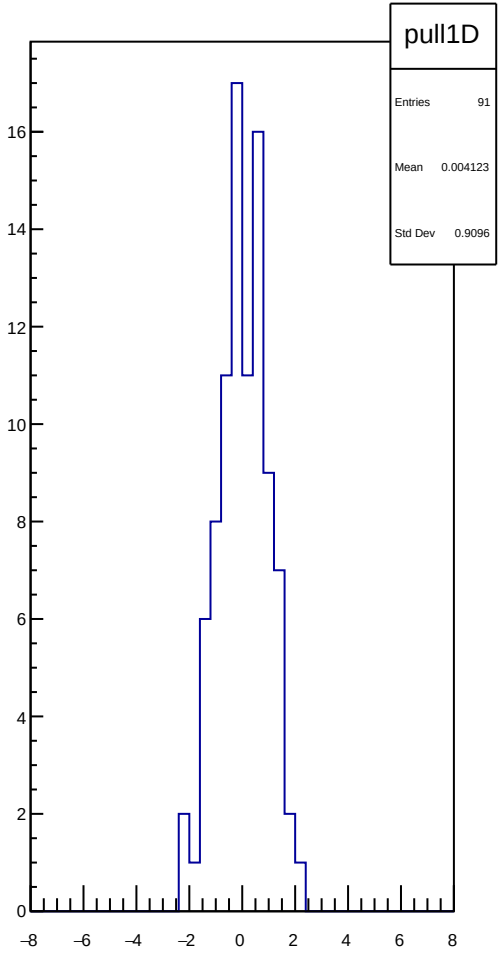

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 75.49 / 90
p0 12.24 ± 4.923
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 88.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

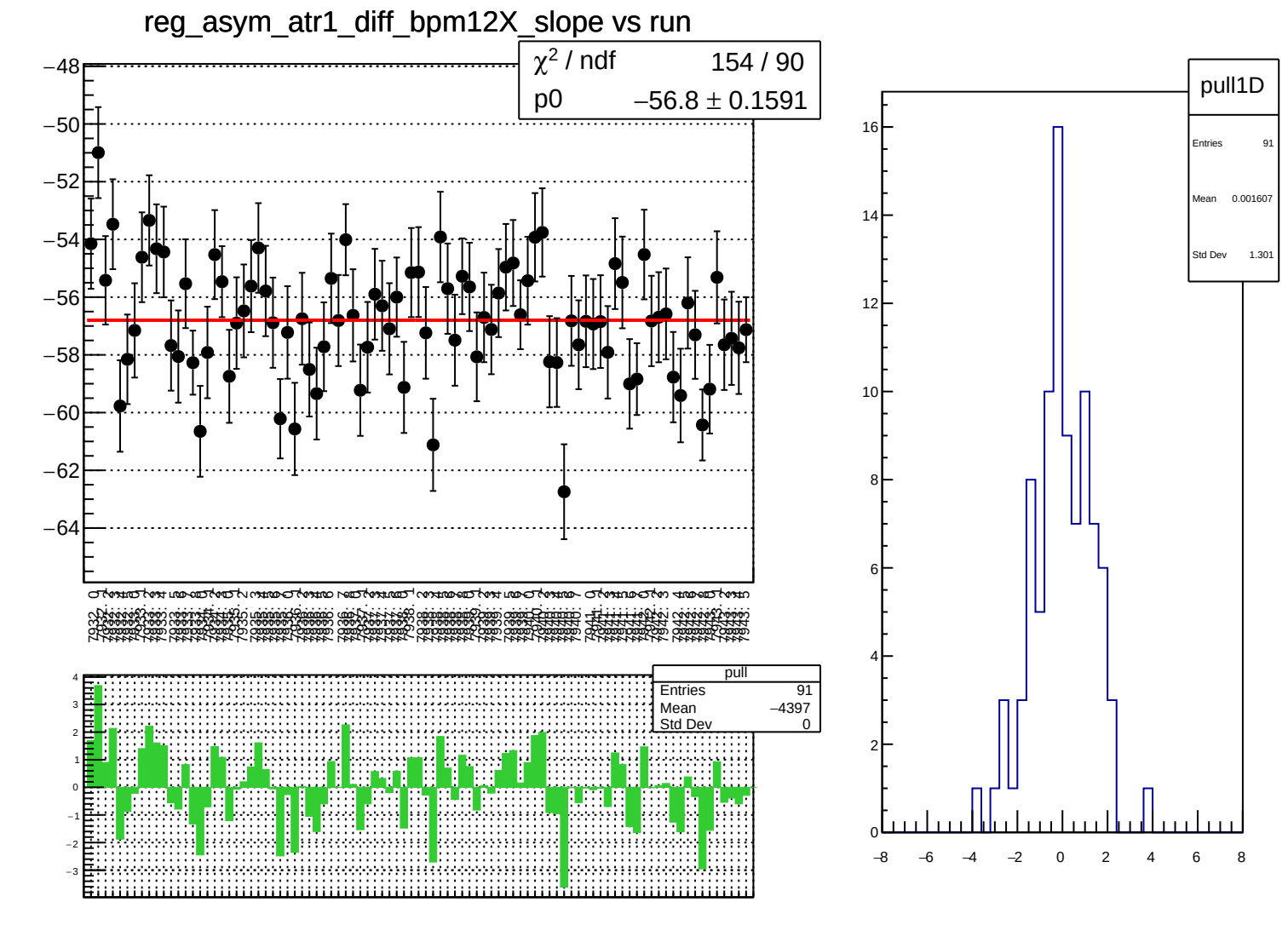

pull1D
Entries 91
Mean −0.00477
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

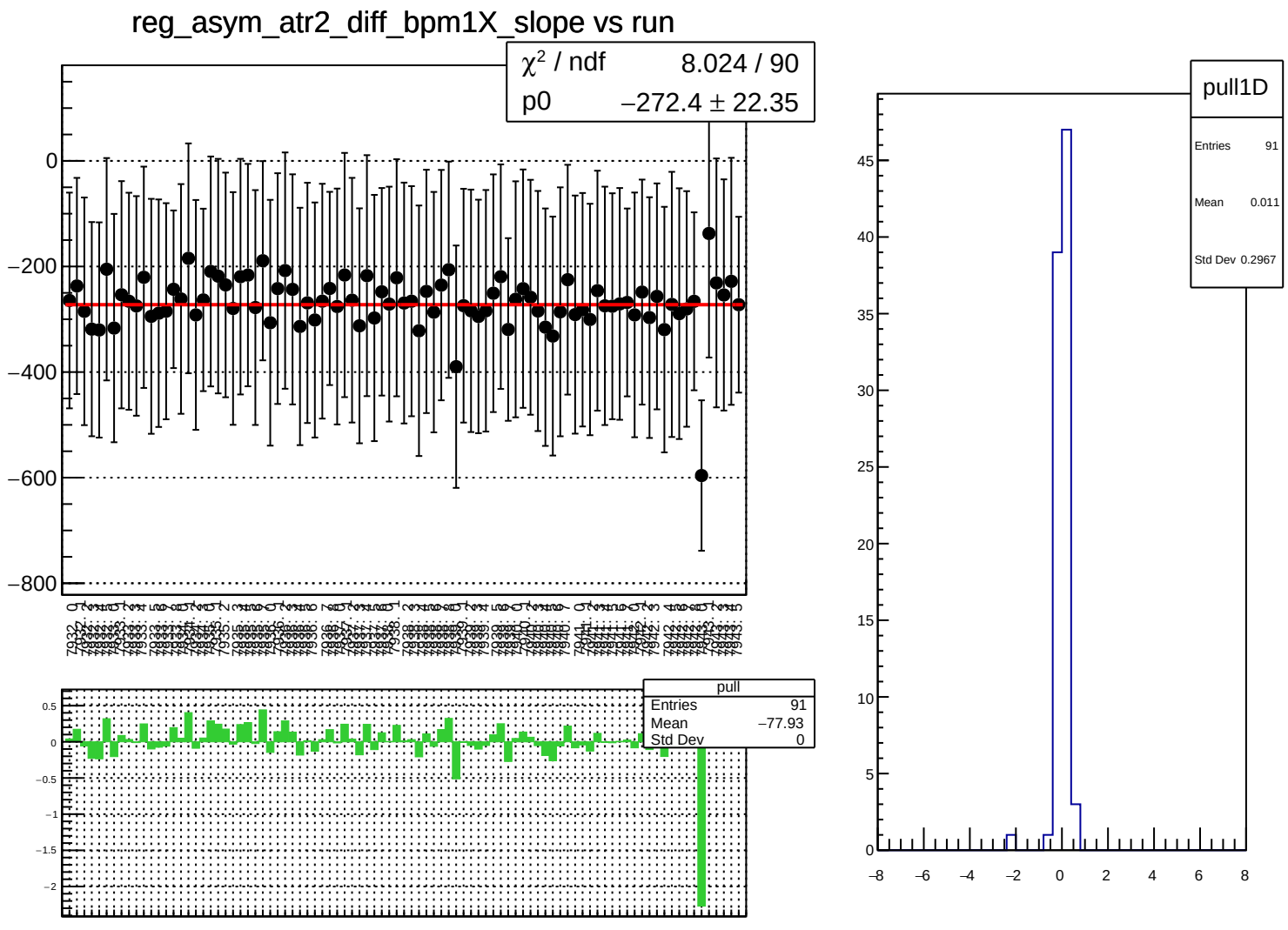

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 71.27 / 90
p0 9.036 ± 4.25
pull
Entries 91
Mean −723.6
Std Dev 0

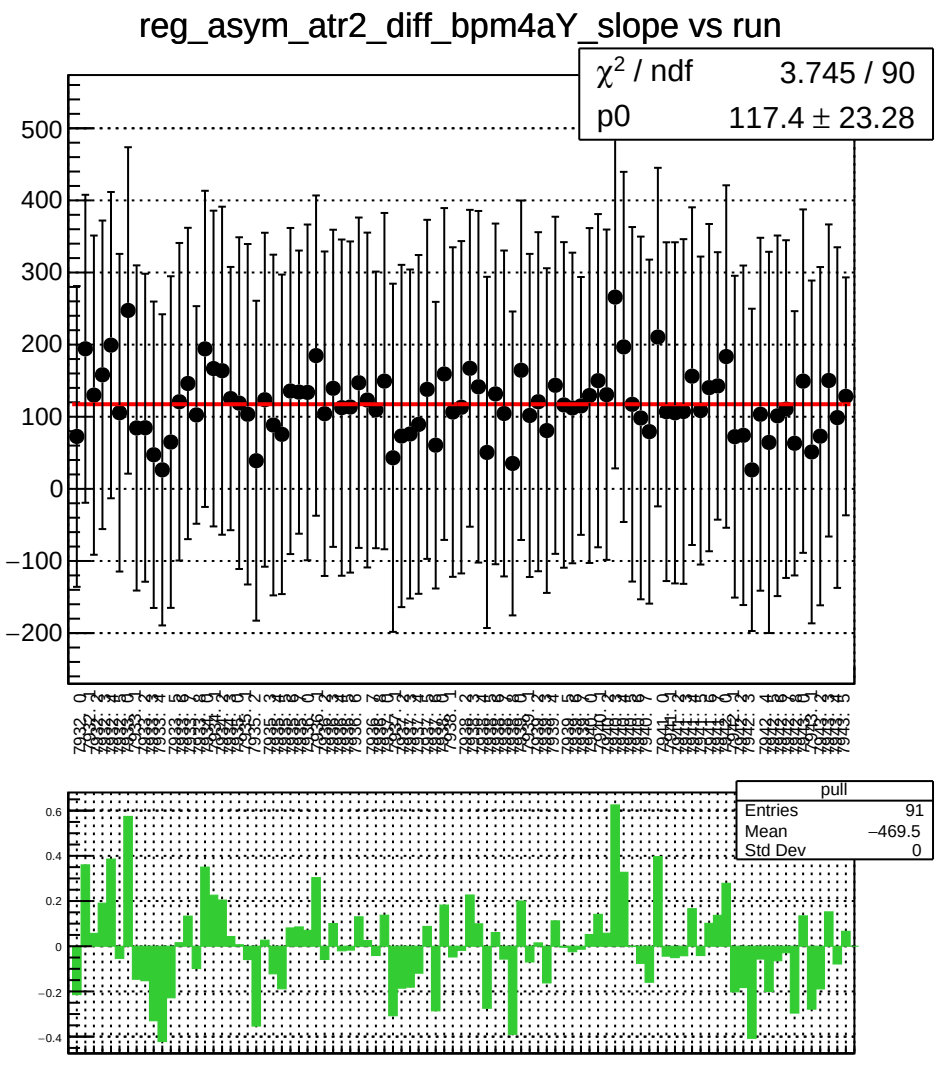

pull1D
Entries 91
Mean −0.003033
Std Dev 0.885

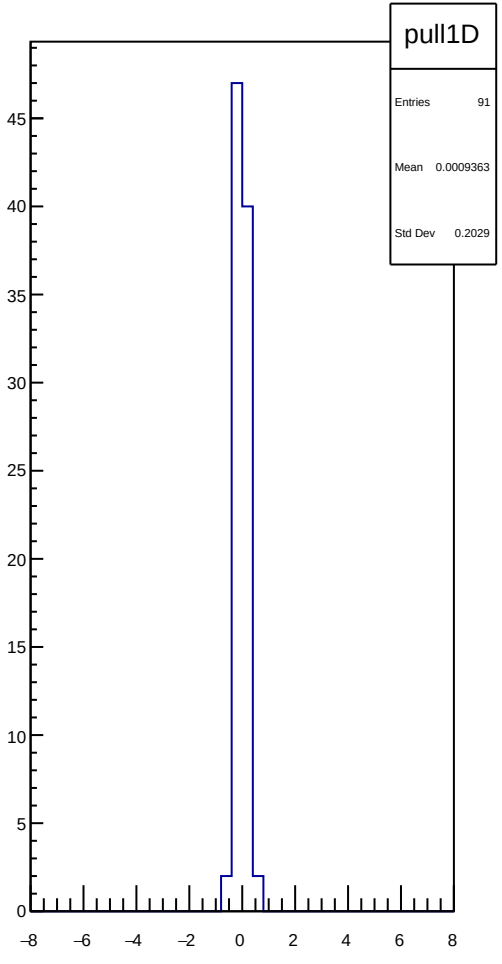

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 75.3 / 90
p0 16.79 ± 5.675
pull
Entries 91
Mean 272.2
Std Dev 0

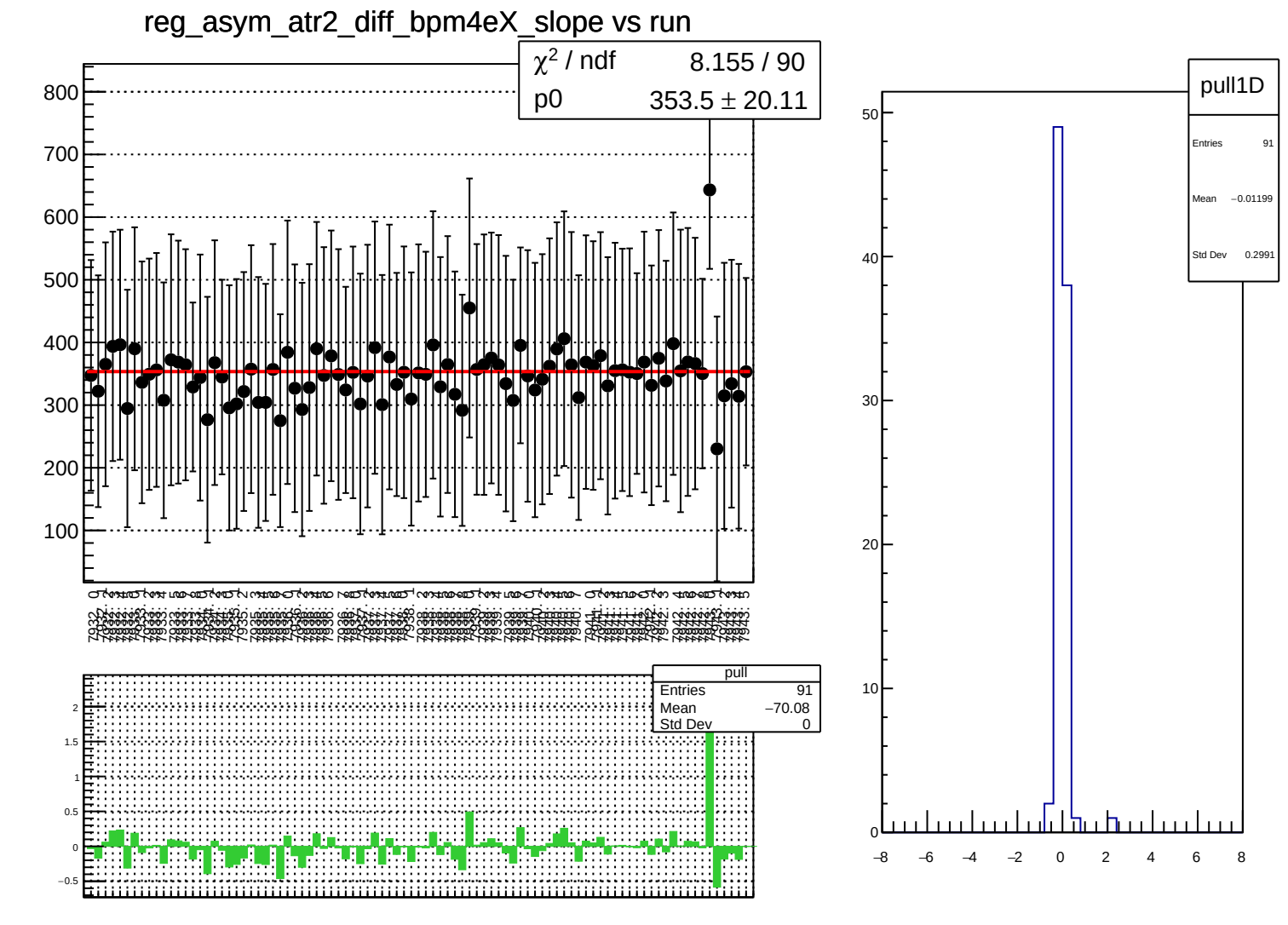

pull1D
Entries 91
Mean 0.004123
Std Dev 0.9096

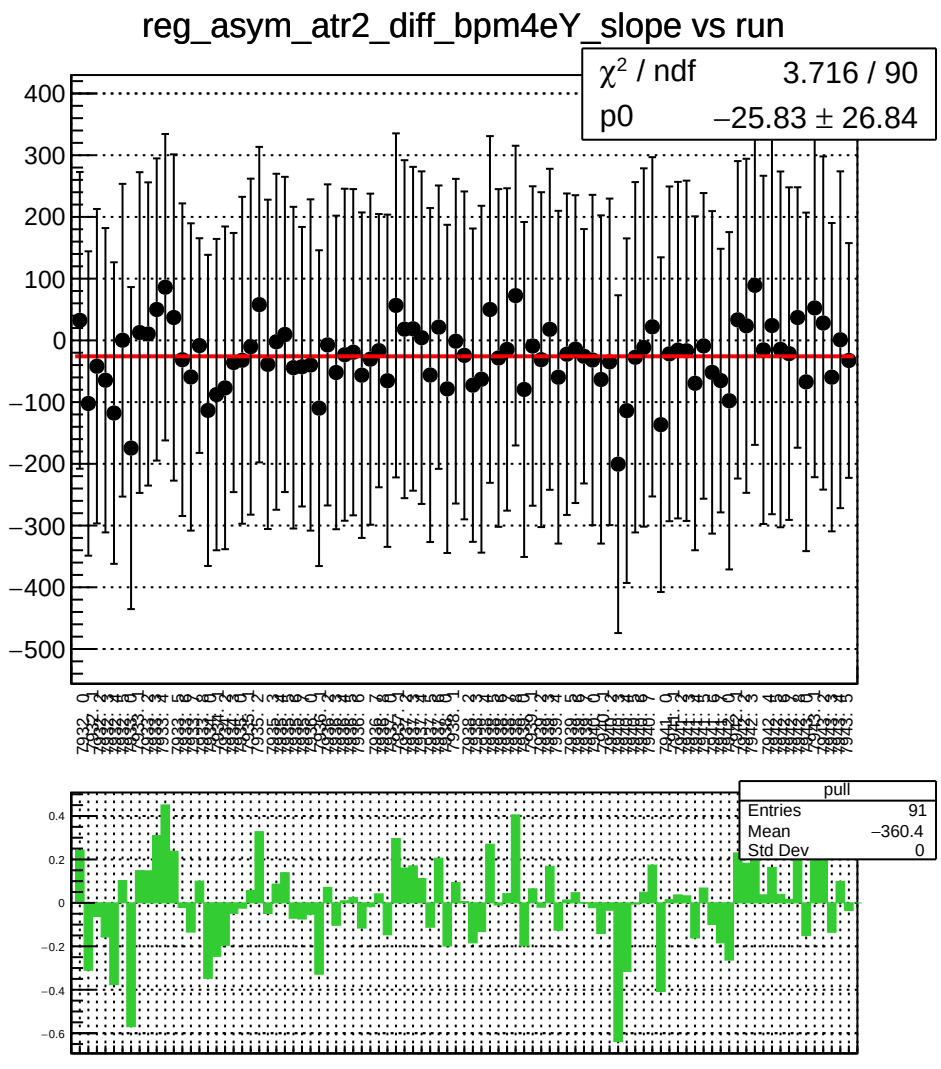

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 154 / 90
p0 −56.8 ± 0.1591
pull
Entries 91
Mean −4397
Std Dev 0
pull1D
Entries 91
Mean 0.001607
Std Dev 1.301

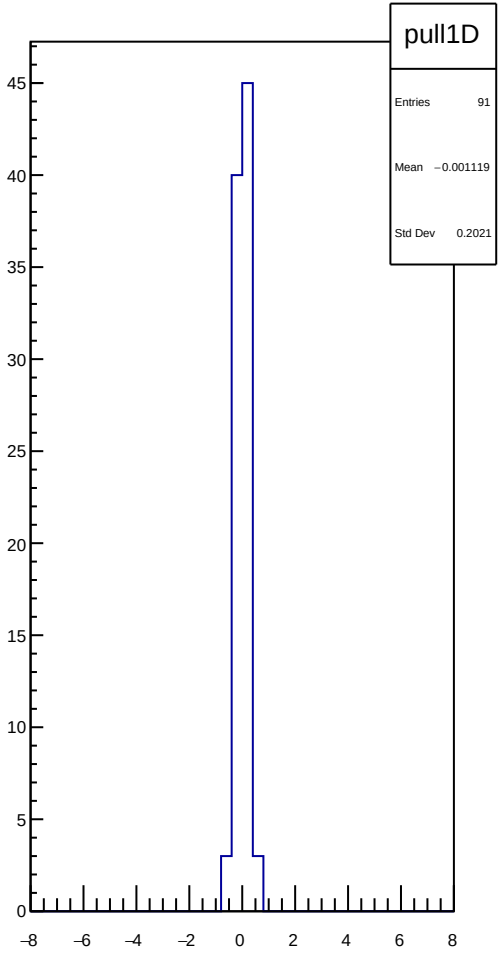

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 8.024 / 90
p0 −272.4 ± 22.35
0
−200
−400
−600
−800
pull
Entries 91
Mean −77.93
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.011
Std Dev 0.2967
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

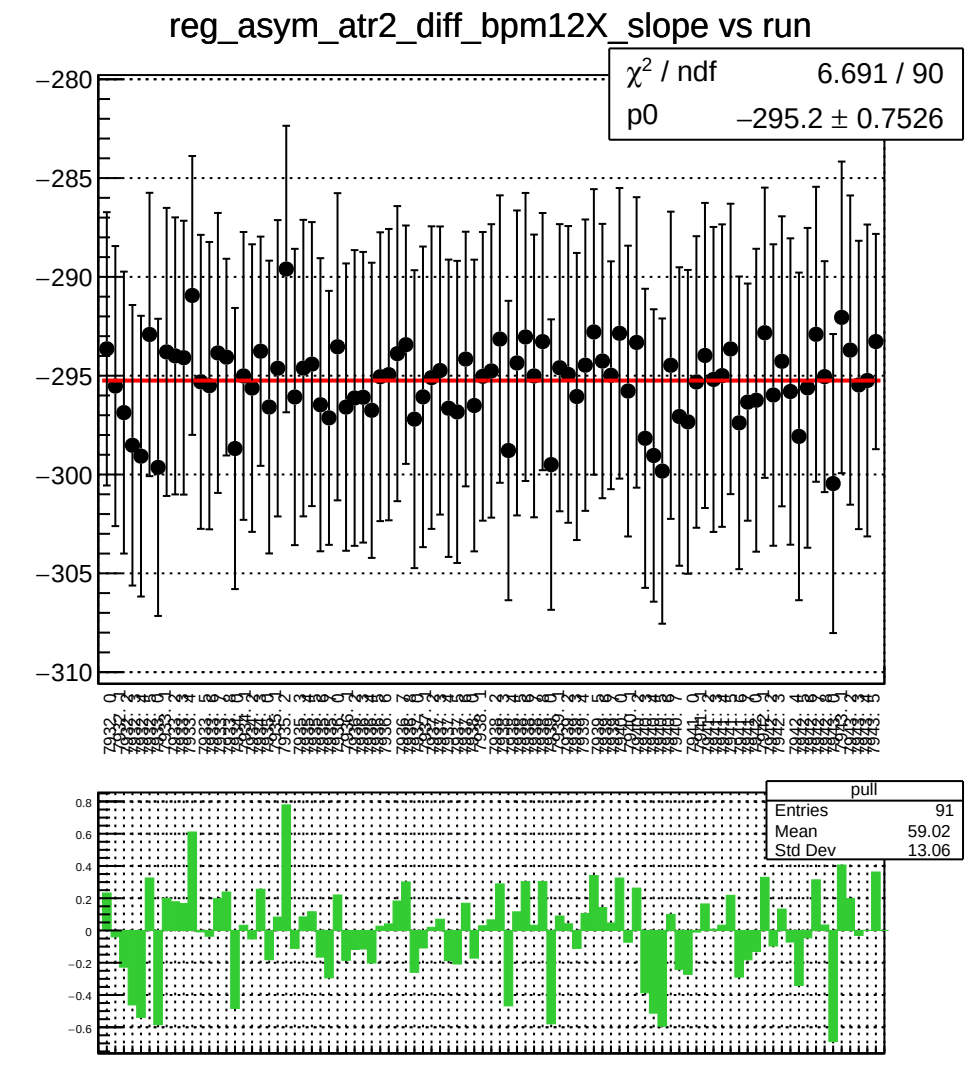

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.745 / 90
p0 117.4 ± 23.28
pull
Entries 91
Mean −469.5
Std Dev 0

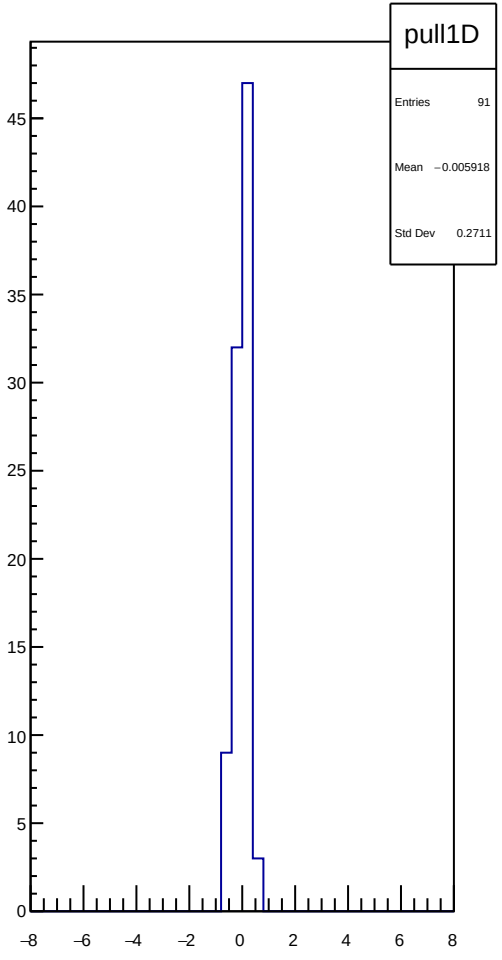

pull1D
Entries 91
Mean 0.0009363
Std Dev 0.2029

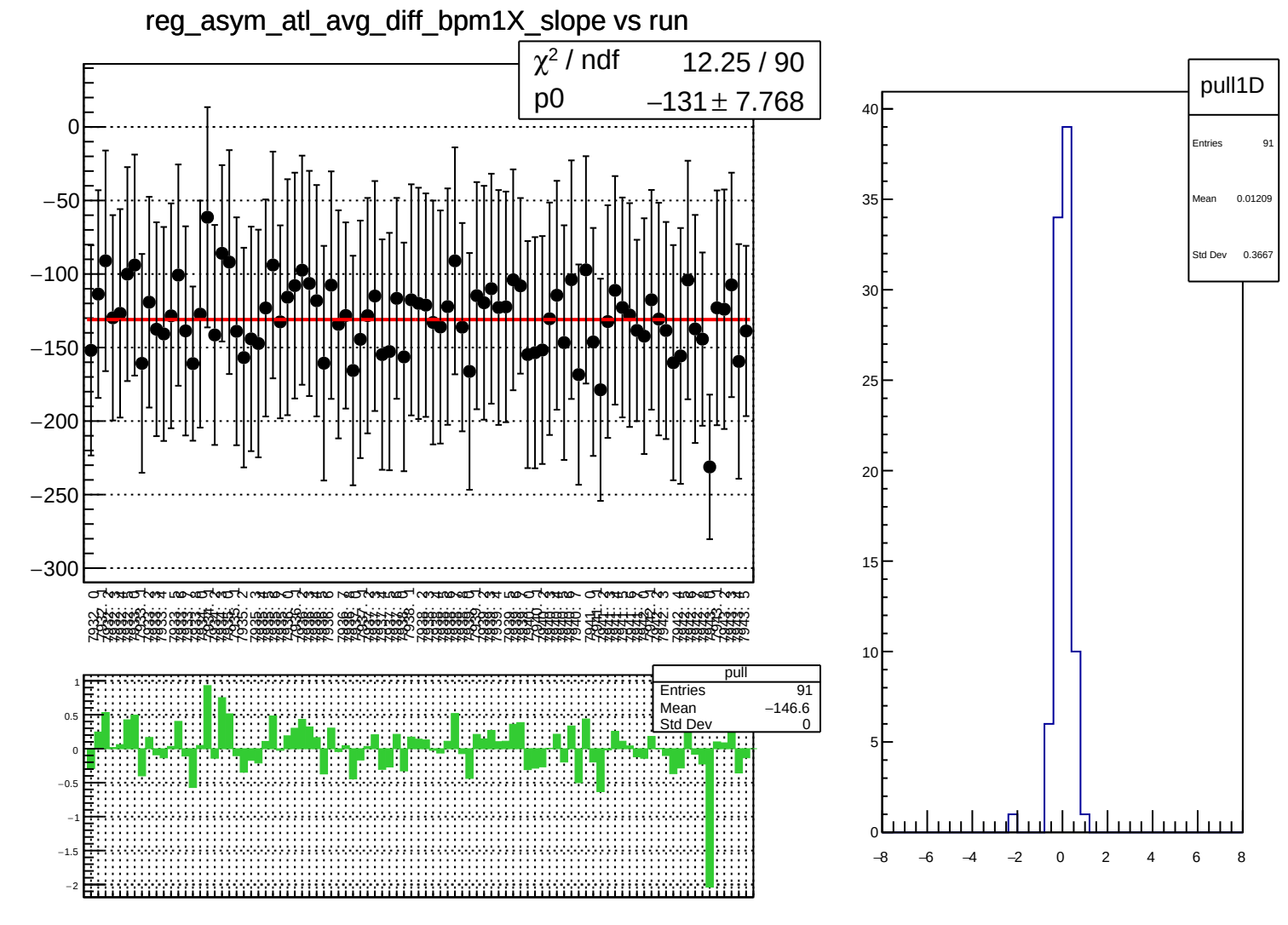

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 8.155 / 90
p0 353.5 ± 20.11
pull
Entries 91
Mean −70.08
Std Dev 0
pull1D
Entries 91
Mean −0.01199
Std Dev 0.2991

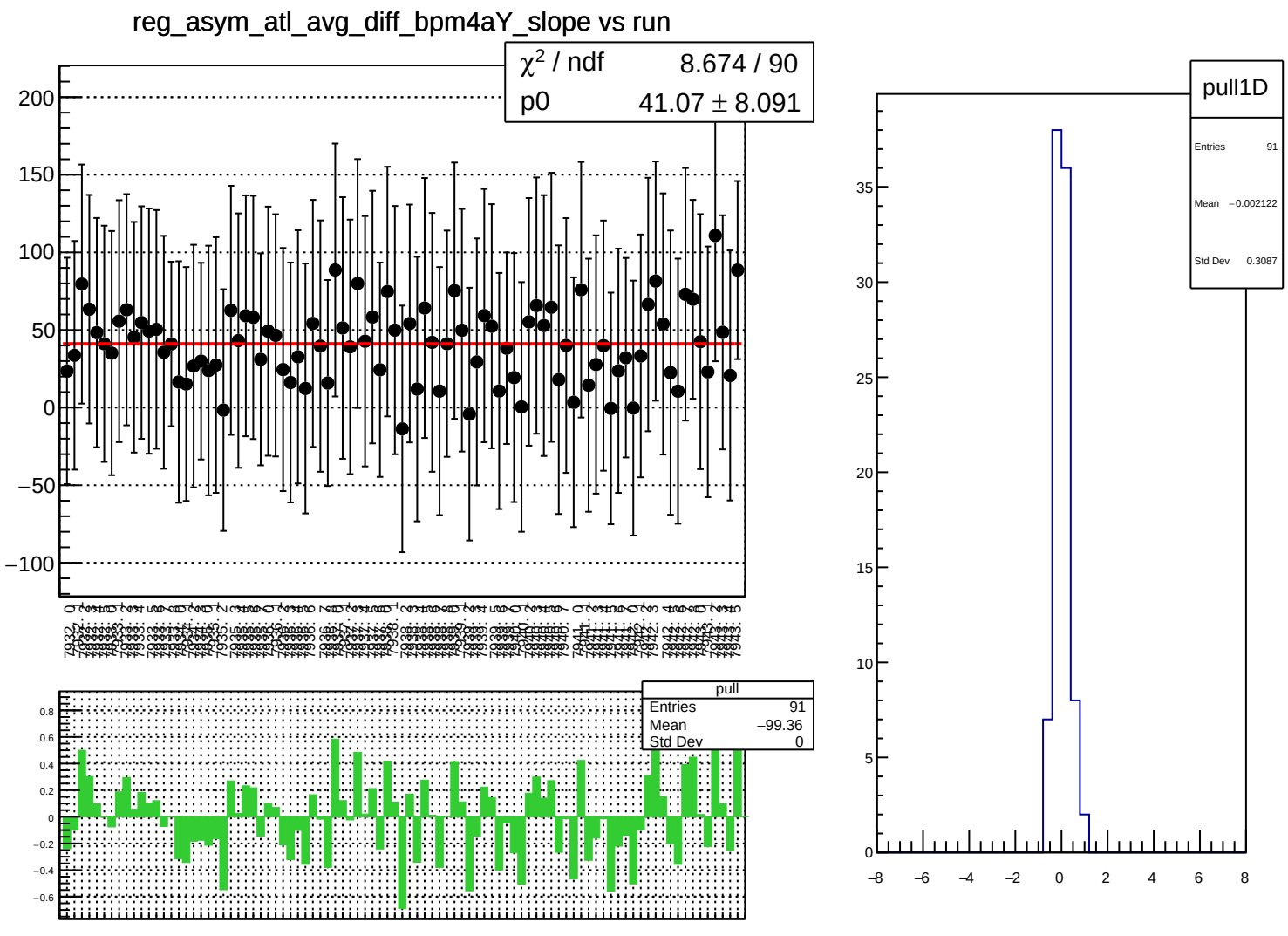

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.716 / 90
p0 −25.83 ± 26.84
pull
Entries 91
Mean −360.4
Std Dev 0

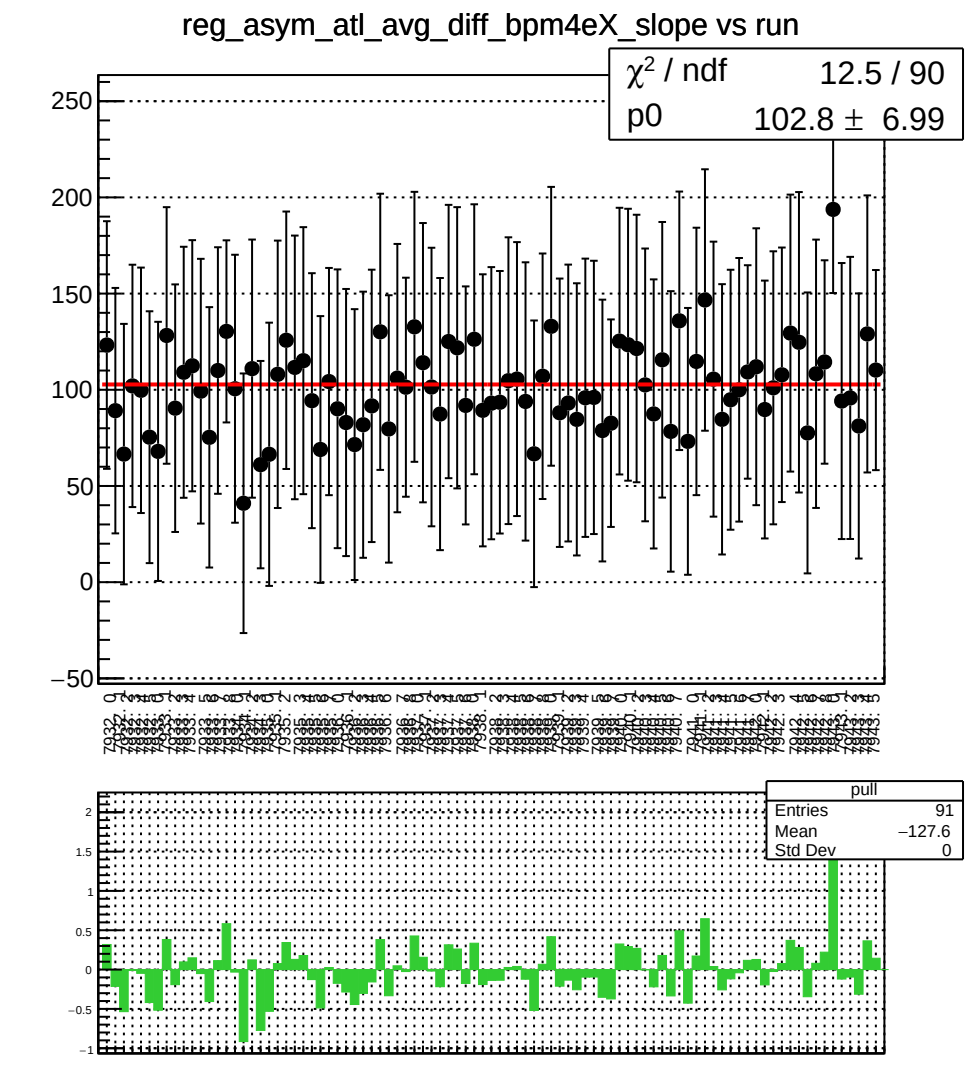

pull1D
Entries 91
Mean −0.001119
Std Dev 0.2021

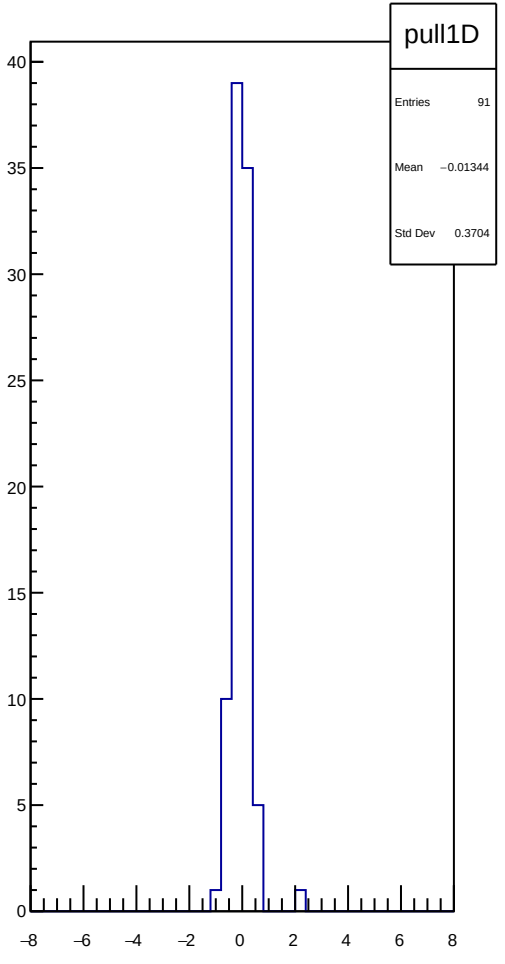

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 6.691 / 90
p0 −295.2 ± 0.7526
pull
Entries 91
Mean 59.02
Std Dev 13.06

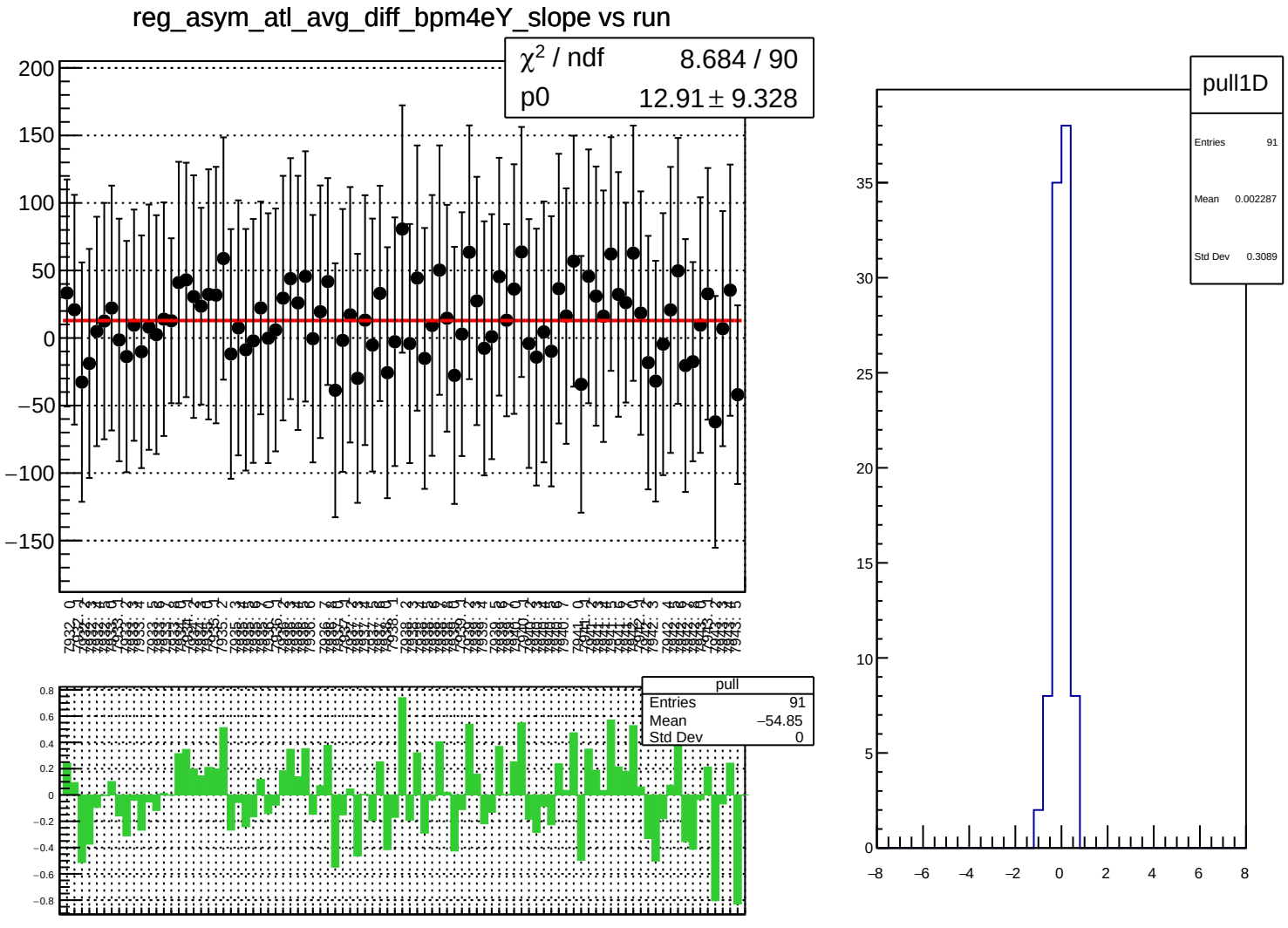

pull1D
Entries 91
Mean −0.005918
Std Dev 0.2711

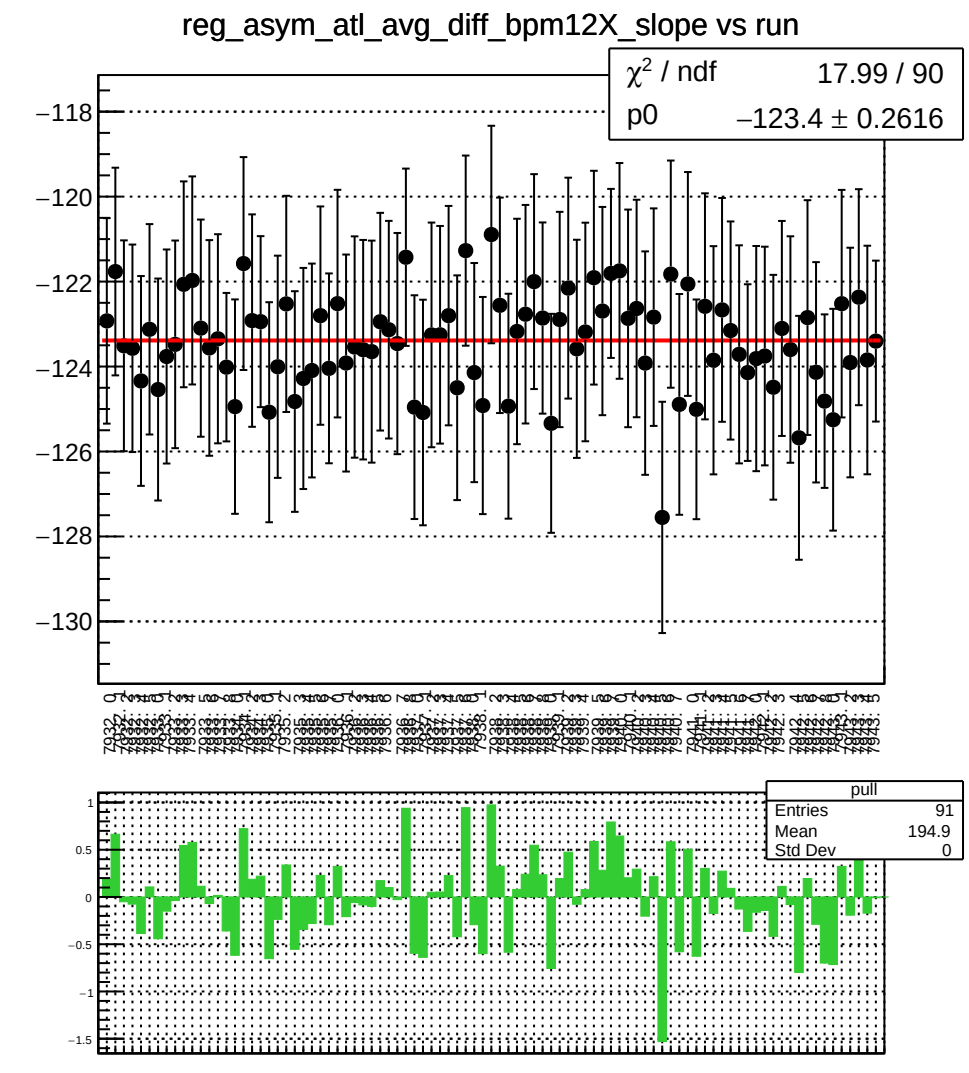

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 12.25 / 90
p0 −131 ± 7.768
pull
Entries 91
Mean −146.6
Std Dev 0
pull1D
Entries 91
Mean 0.01209
Std Dev 0.3667

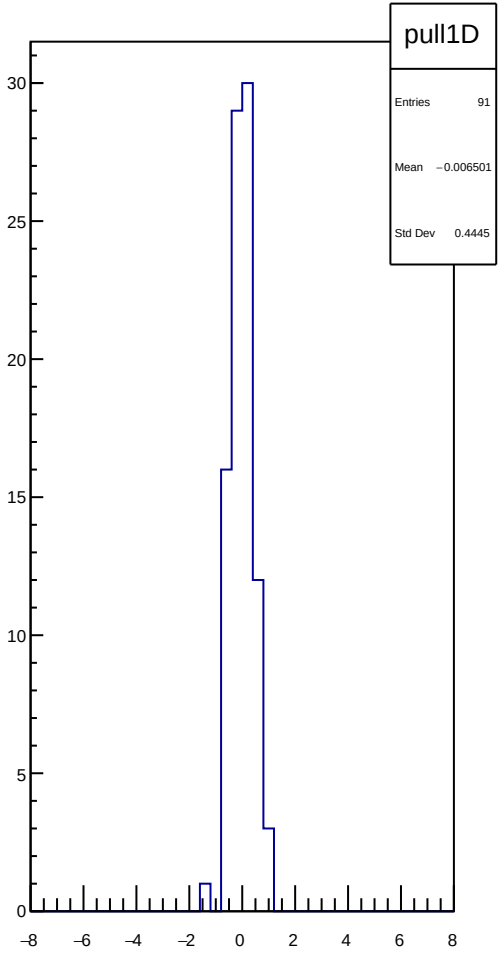

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.674 / 90
p0 41.07 ± 8.091
pull
Entries 91
Mean −99.36
Std Dev 0
pull1D
Entries 91
Mean −0.002122
Std Dev 0.3087

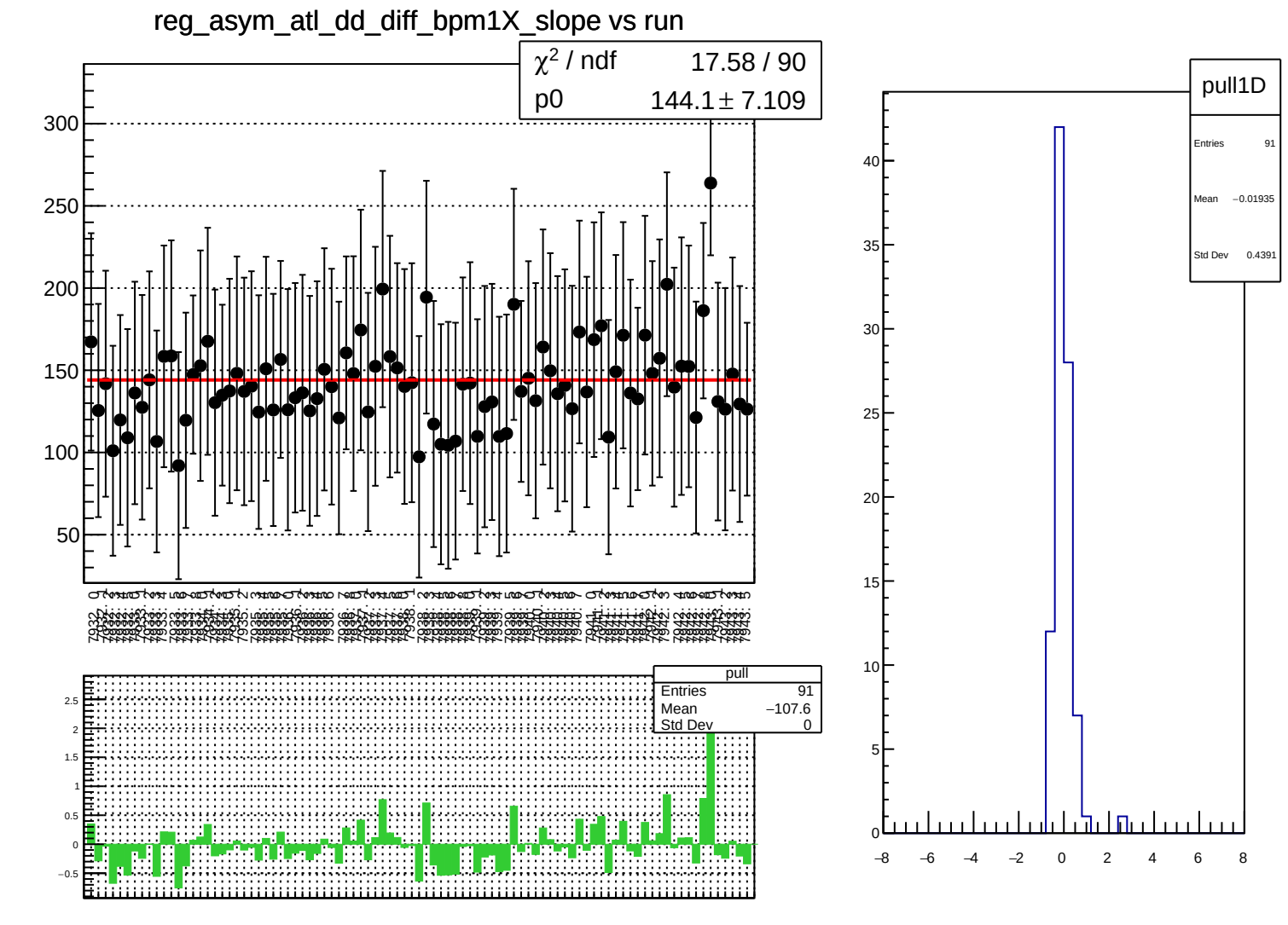

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.5 / 90
p0 102.8 ± 6.99
pull
Entries 91
Mean −127.6
Std Dev 0

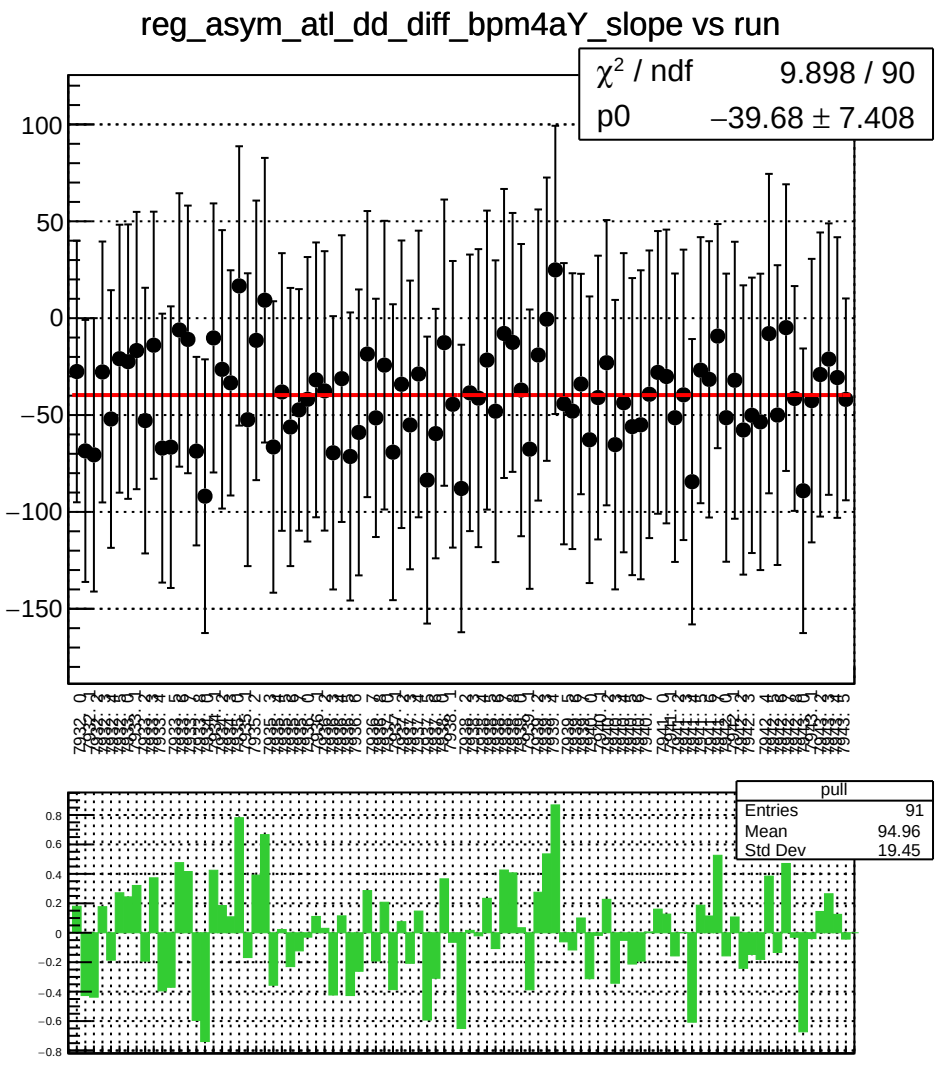

pull1D
Entries 91
Mean −0.01344
Std Dev 0.3704

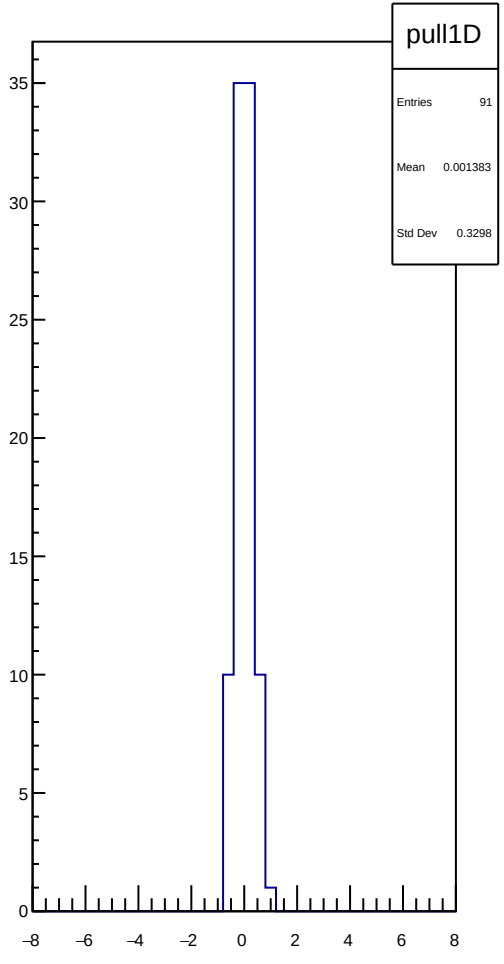

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.684 / 90
p0 12.91 ± 9.328
pull
Entries 91
Mean −54.85
Std Dev 0
pull1D
Entries 91
Mean 0.002287
Std Dev 0.3089

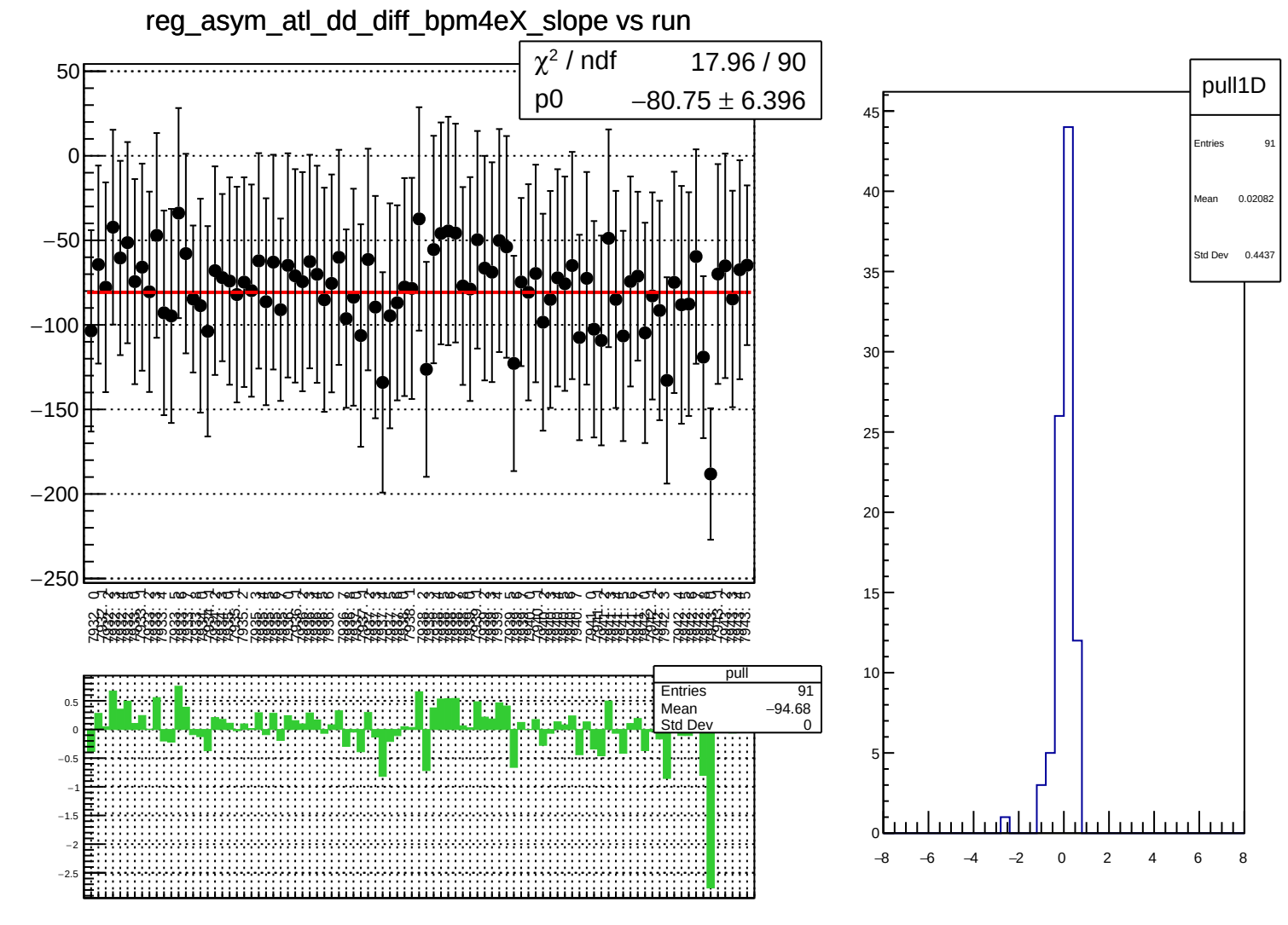

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 17.99 / 90
p0 −123.4 ± 0.2616
pull
Entries 91
Mean 194.9
Std Dev 0

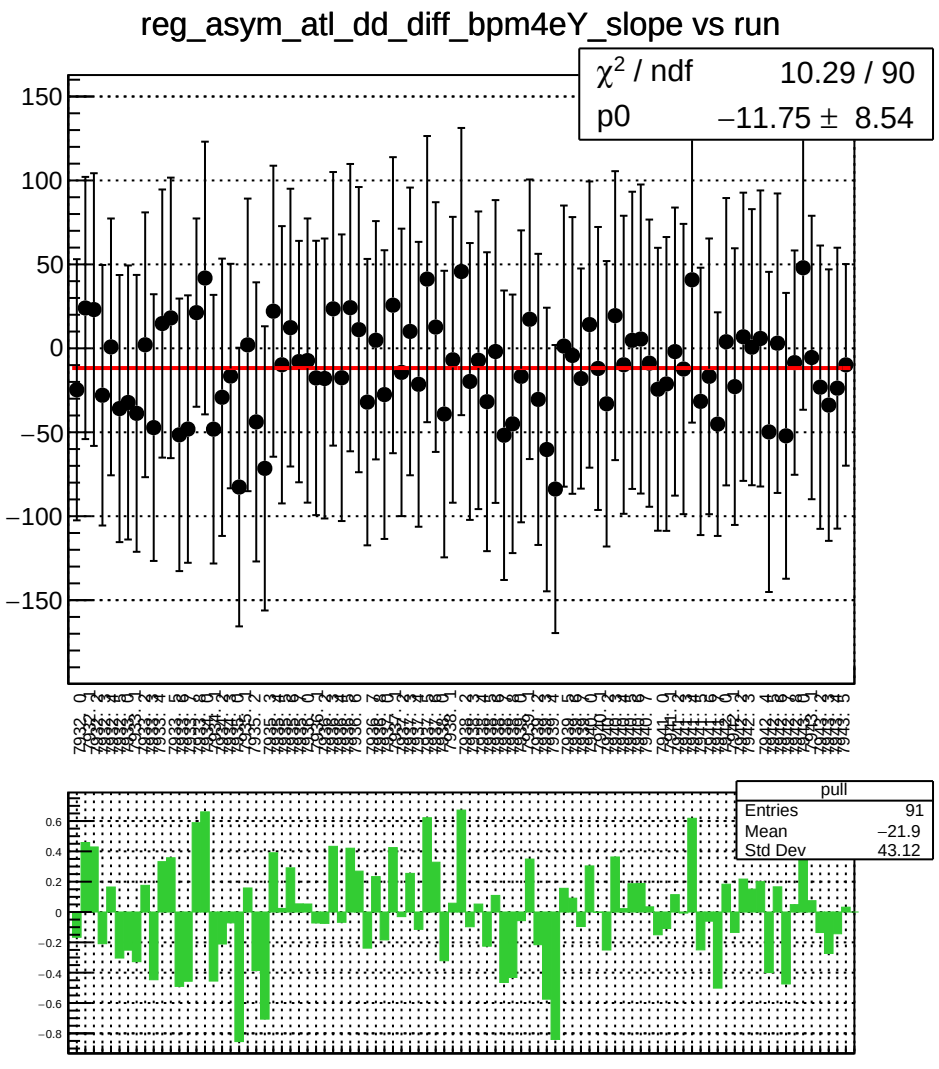

pull1D
Entries 91
Mean −0.006501
Std Dev 0.4445

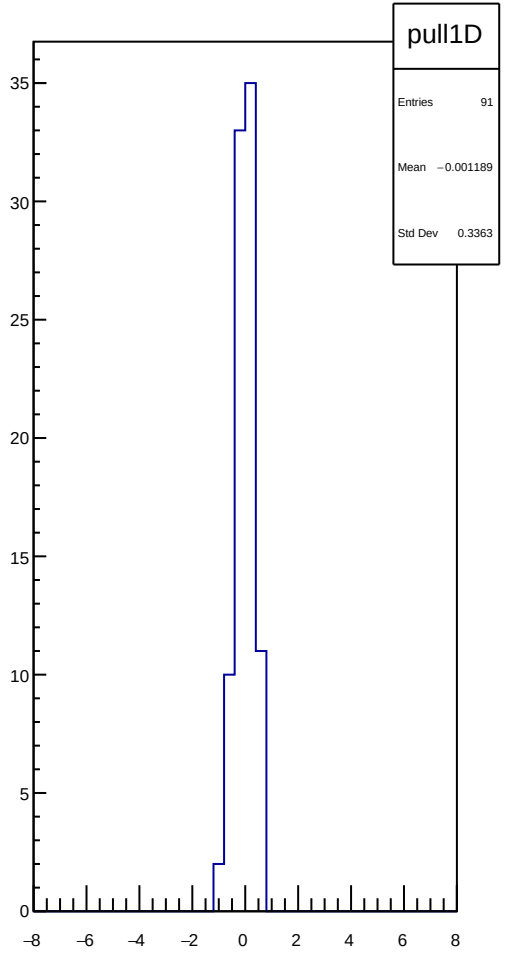

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 17.58 / 90
p0 144.1 ± 7.109
300
250
200
150
100
50
pull
Entries 91
Mean −107.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.01935
Std Dev 0.4391
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

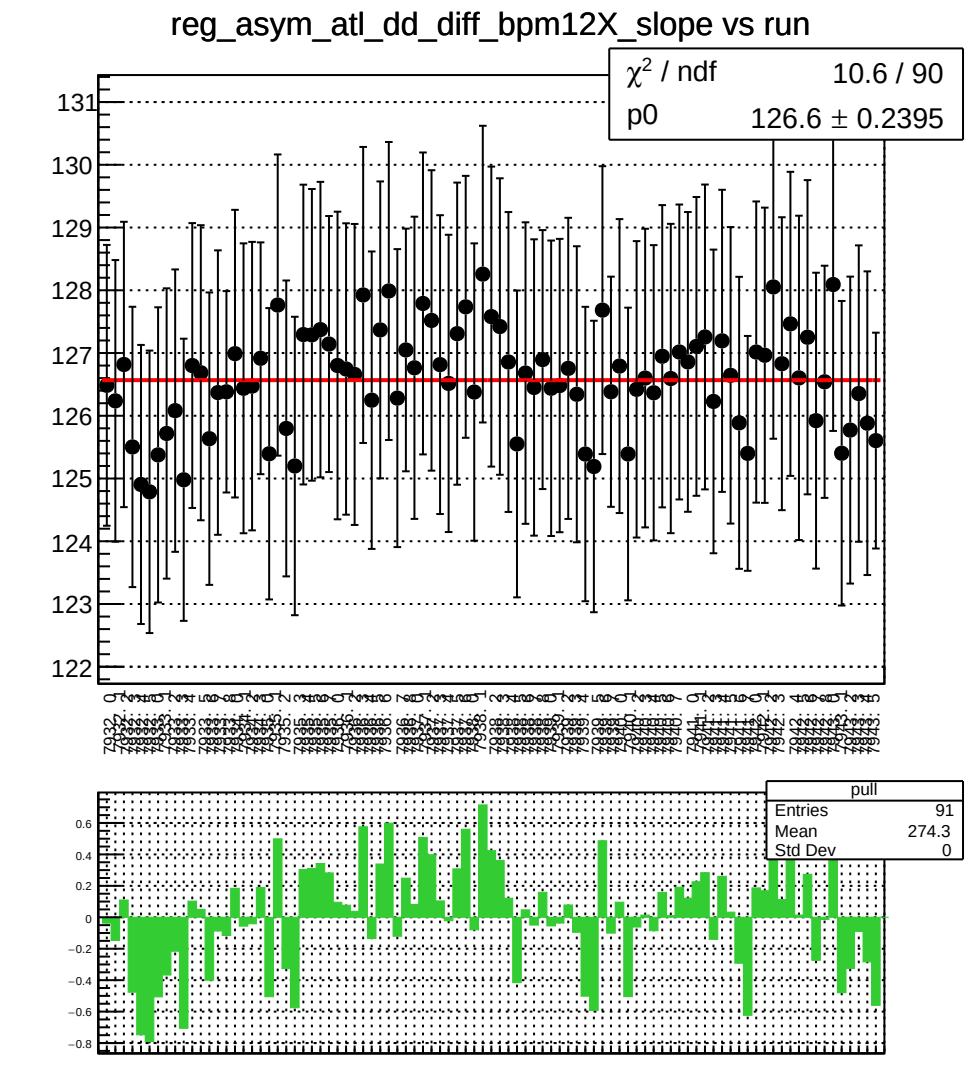

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.898 / 90
p0 −39.68 ± 7.408
pull
Entries 91
Mean 94.96
Std Dev 19.45

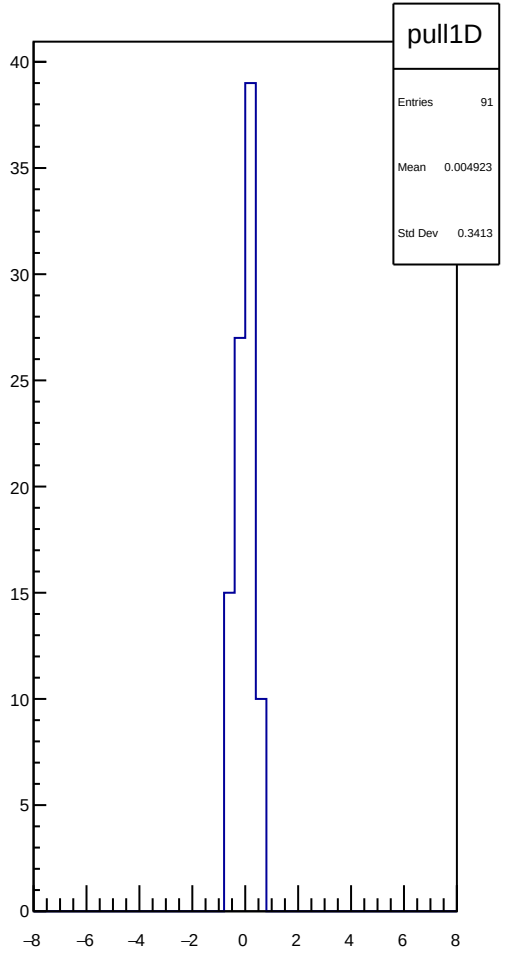

pull1D
Entries 91
Mean 0.001383
Std Dev 0.3298

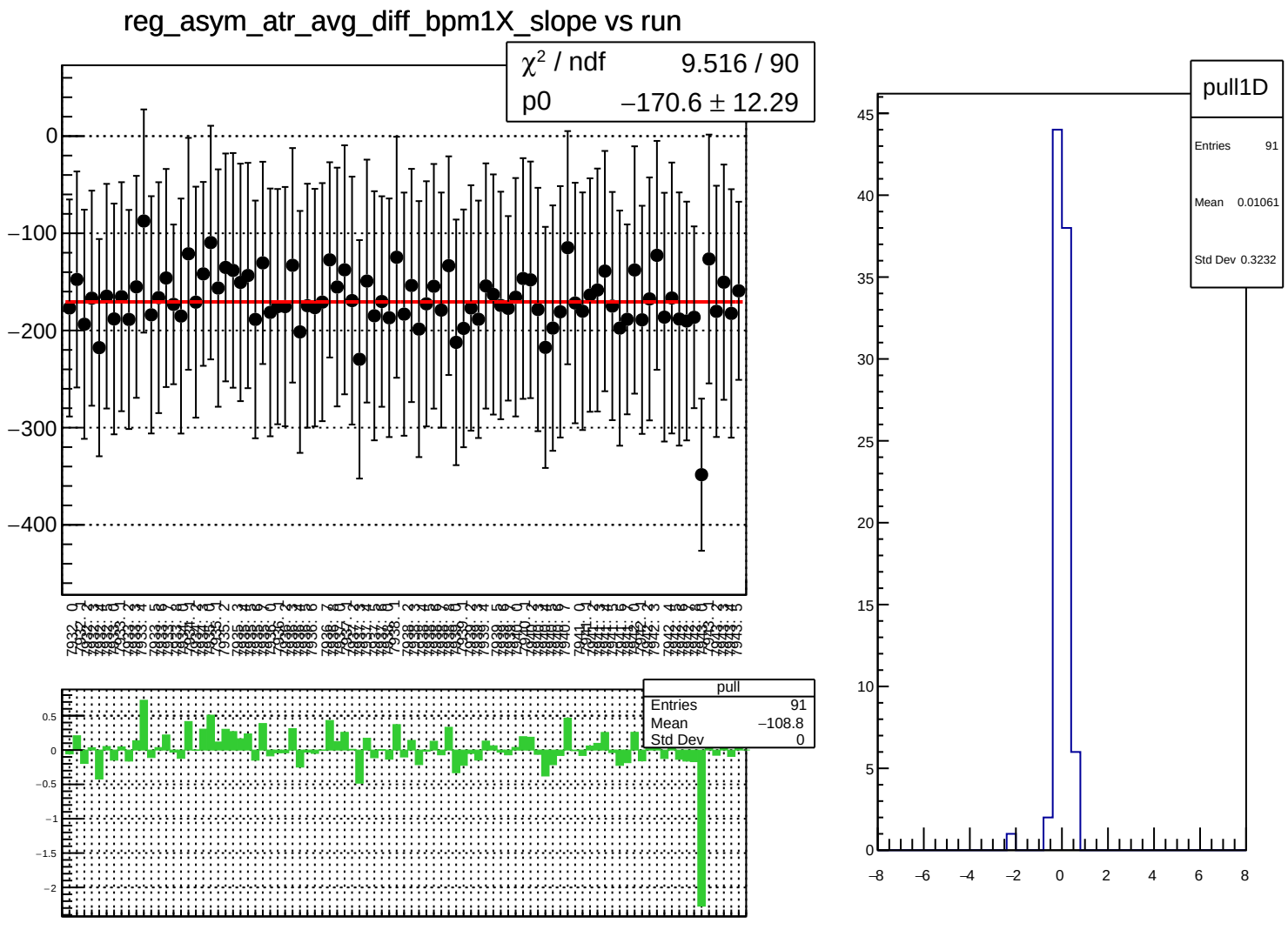

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.96 / 90
p0 −80.75 ± 6.396
pull
Entries 91
Mean −94.68
Std Dev 0
pull1D
Entries 91
Mean 0.02082
Std Dev 0.4437

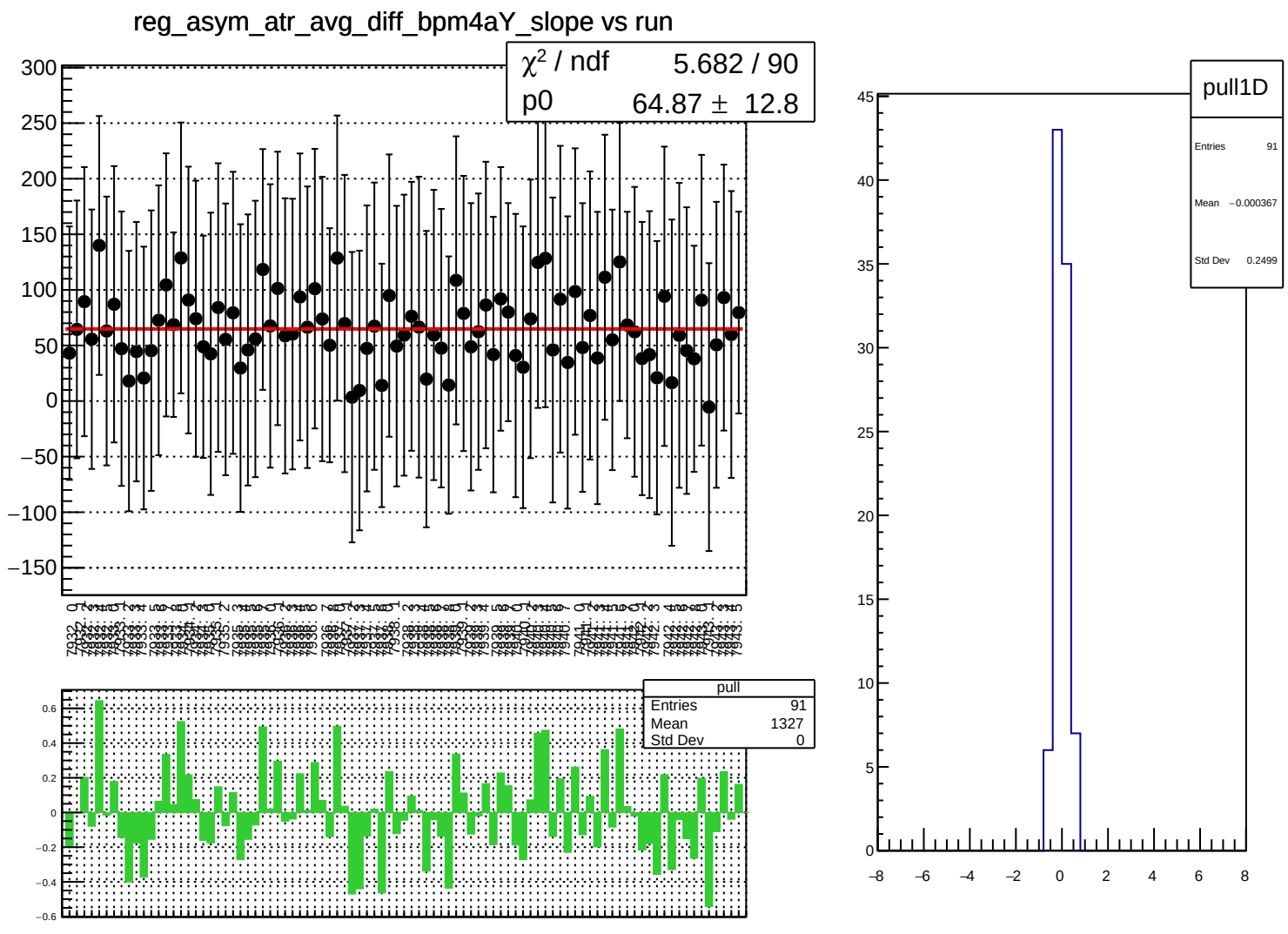

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.29 / 90
p0 −11.75 ± 8.54
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −21.9
Std Dev 43.12
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

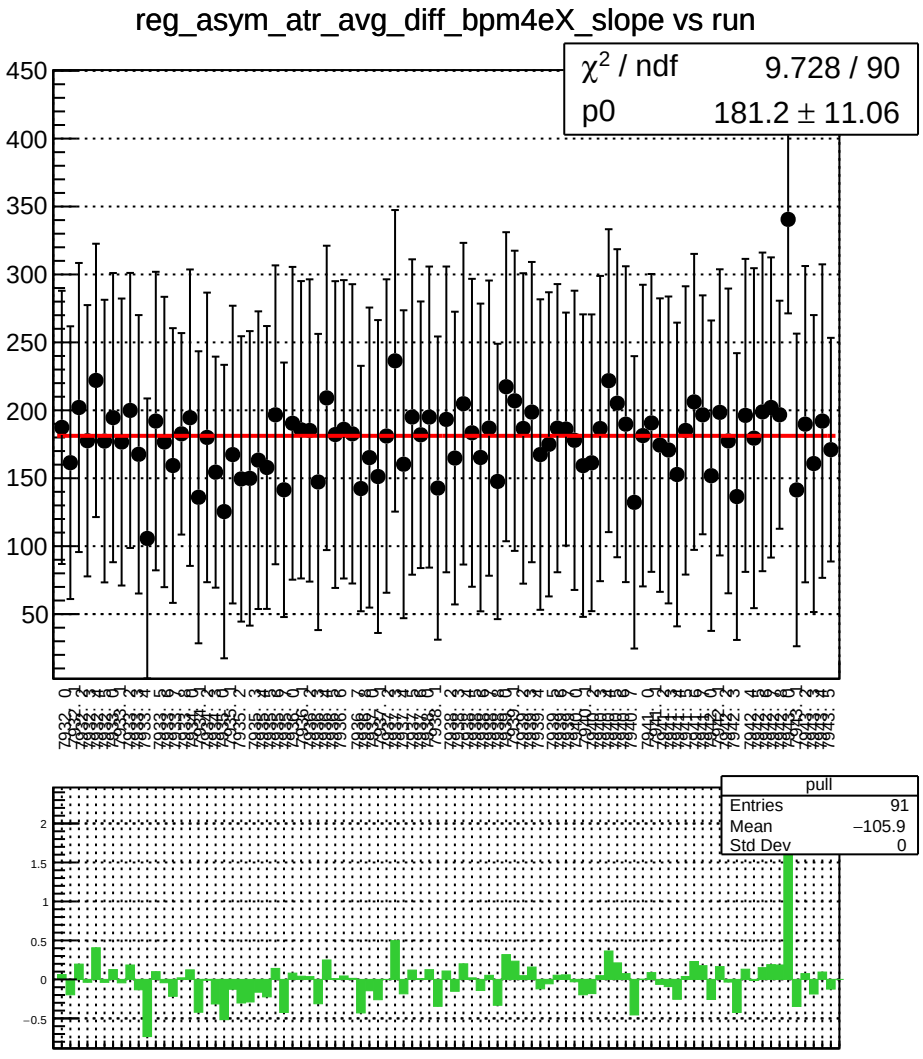

pull1D
Entries 91
Mean −0.001189
Std Dev 0.3363
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

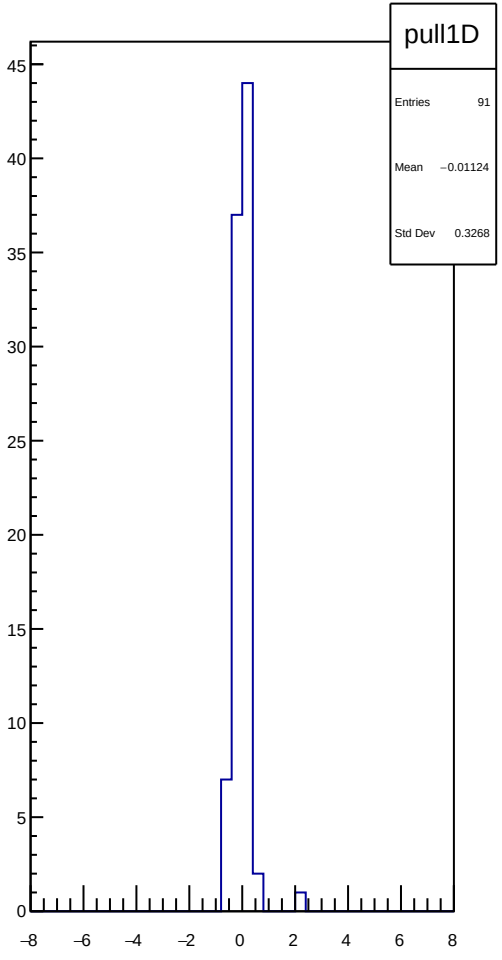

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 10.6 / 90
p0 126.6 ± 0.2395
pull
Entries 91
Mean 274.3
Std Dev 0

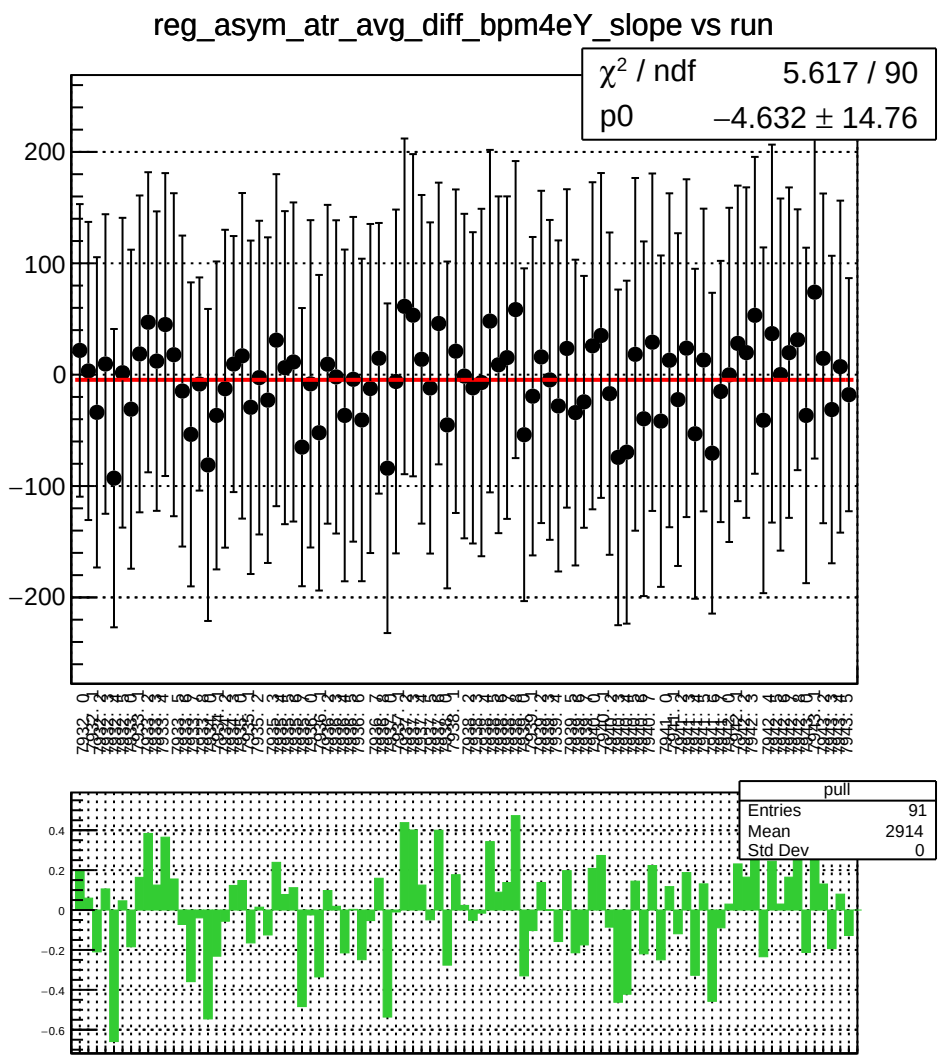

pull1D
Entries 91
Mean 0.004923
Std Dev 0.3413

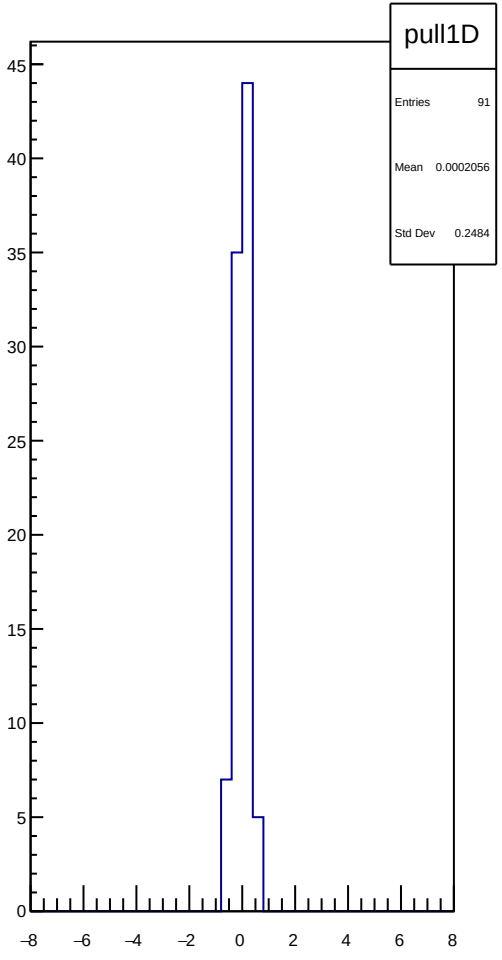

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 9.516 / 90
p0 −170.6 ± 12.29
0
−100
−200
−300
−400
pull
Entries 91
Mean −108.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.01061
Std Dev 0.3232
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

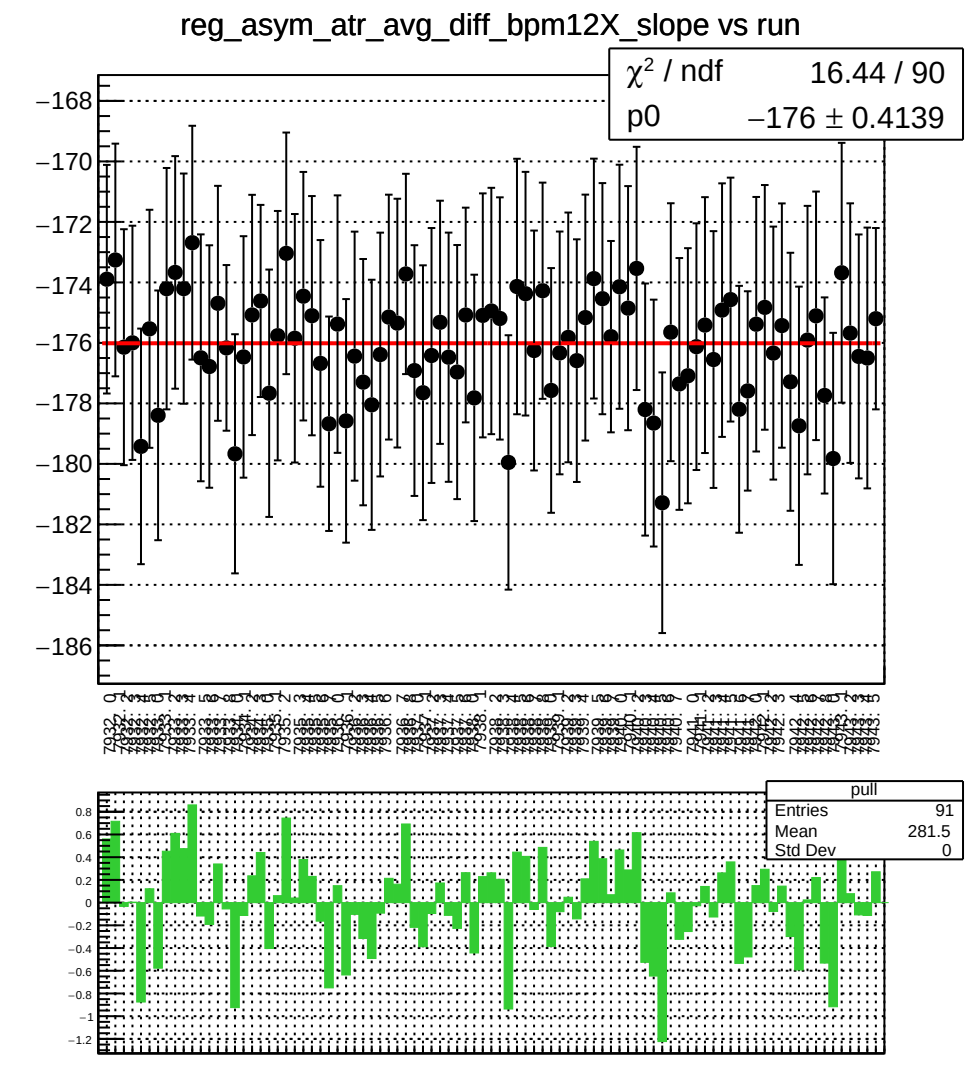

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.682 / 90
p0 64.87 ± 12.8
pull
Entries 91
Mean 1327
Std Dev 0
pull1D
Entries 91
Mean −0.000367
Std Dev 0.2499

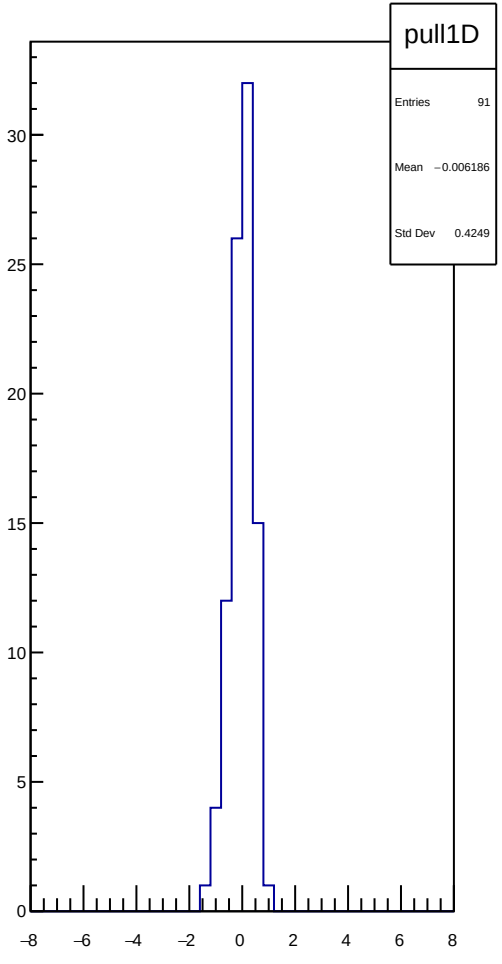

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 9.728 / 90
p0 181.2 ± 11.06
pull
Entries 91
Mean −105.9
Std Dev 0

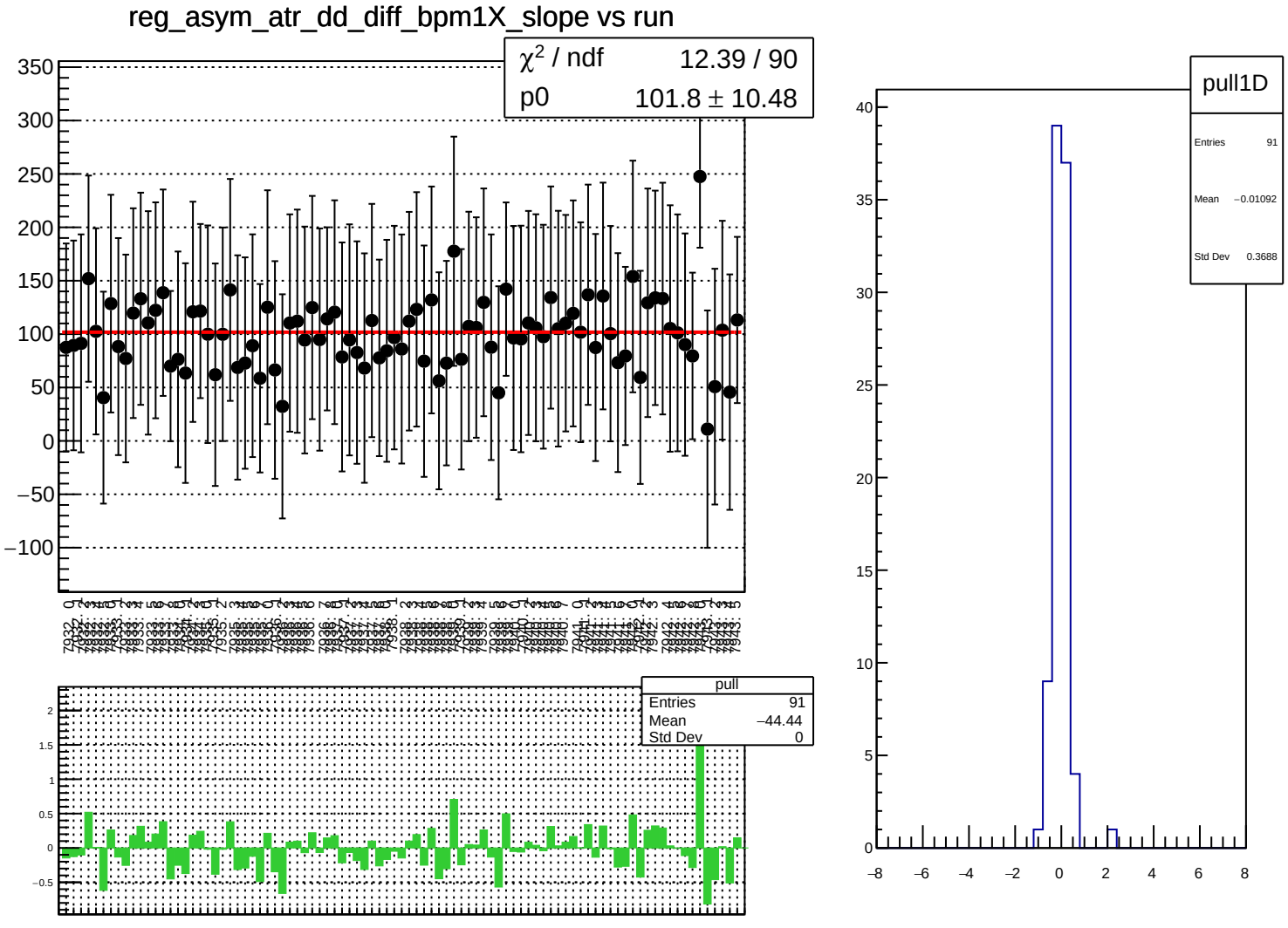

pull1D
Entries 91
Mean −0.01124
Std Dev 0.3268

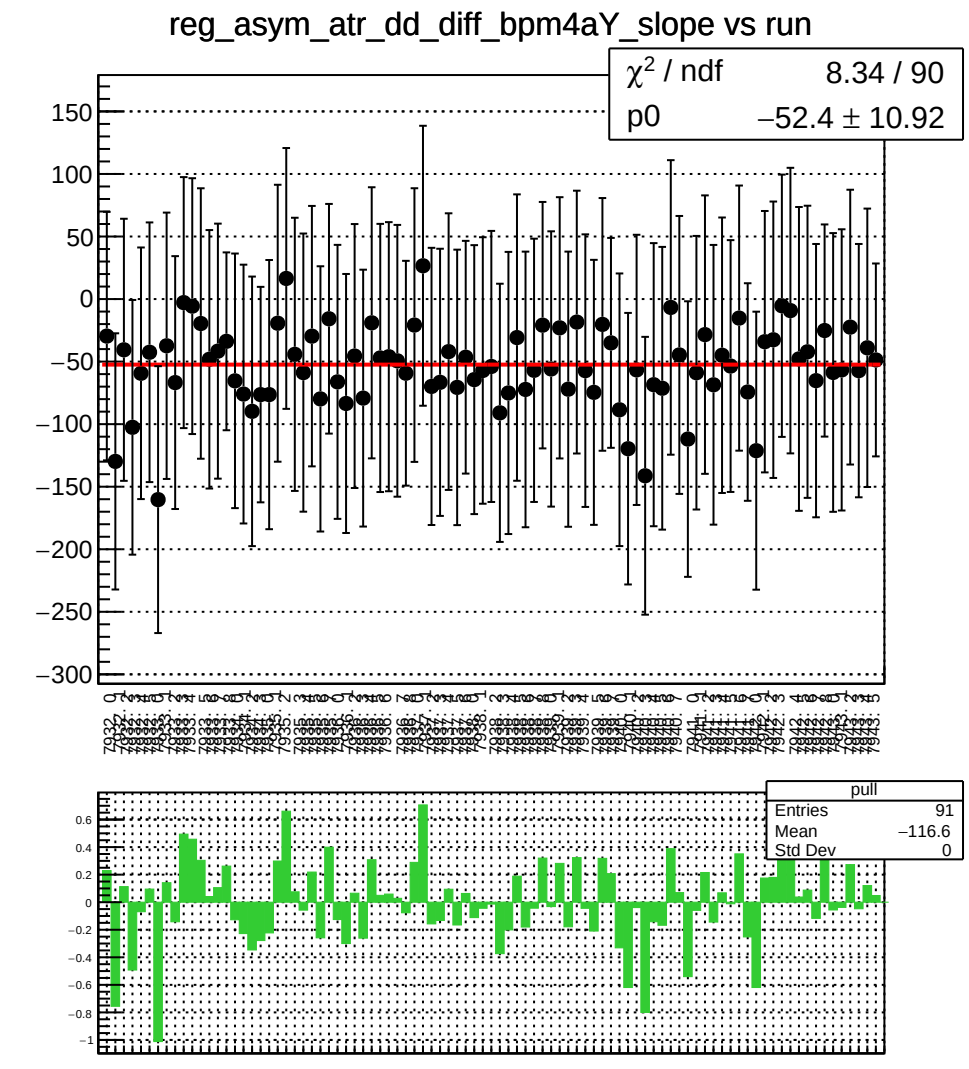

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.617 / 90
p0 −4.632 ± 14.76
pull
Entries 91
Mean 2914
Std Dev 0

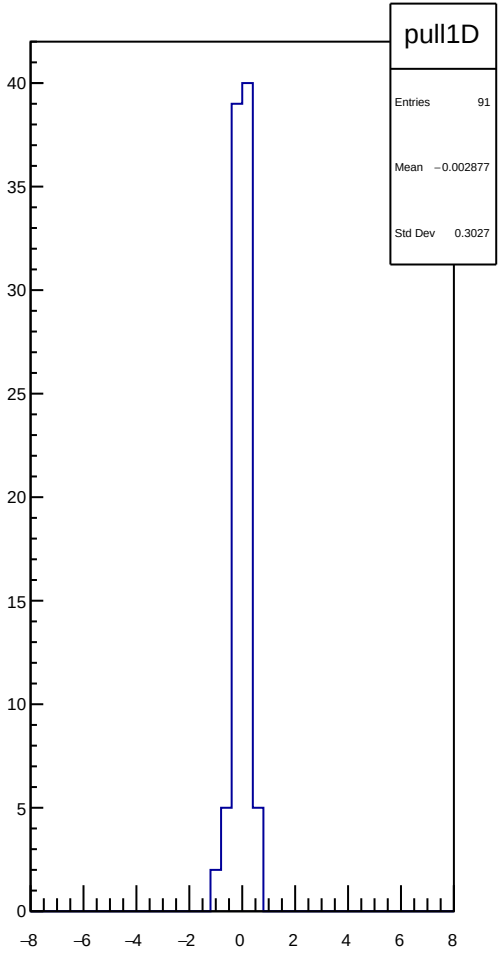

pull1D
Entries 91
Mean 0.0002056
Std Dev 0.2484

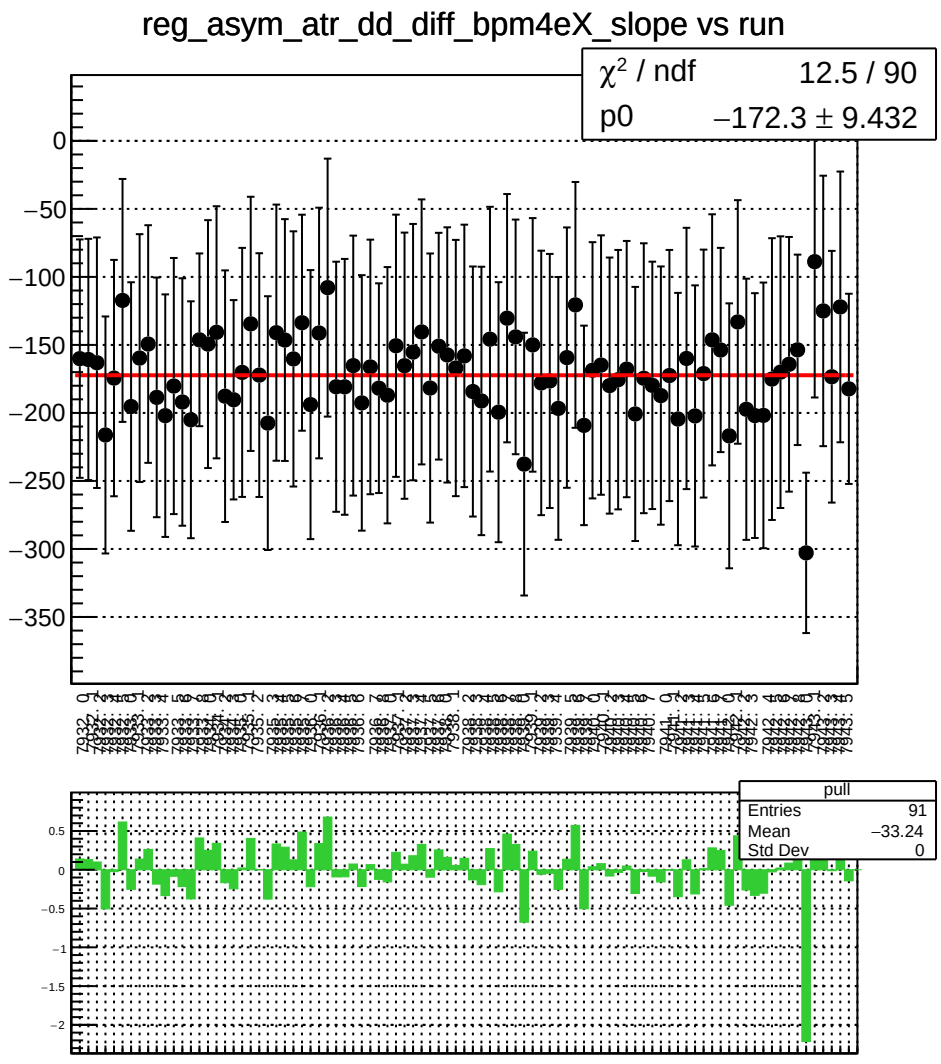

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 16.44 / 90
p0 −176 ± 0.4139
pull
Entries 91
Mean 281.5
Std Dev 0

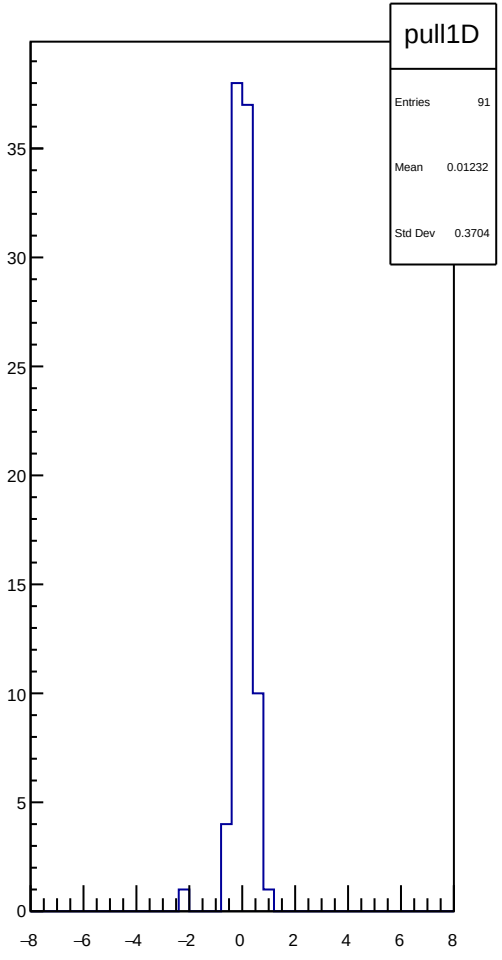

pull1D
Entries 91
Mean −0.006186
Std Dev 0.4249

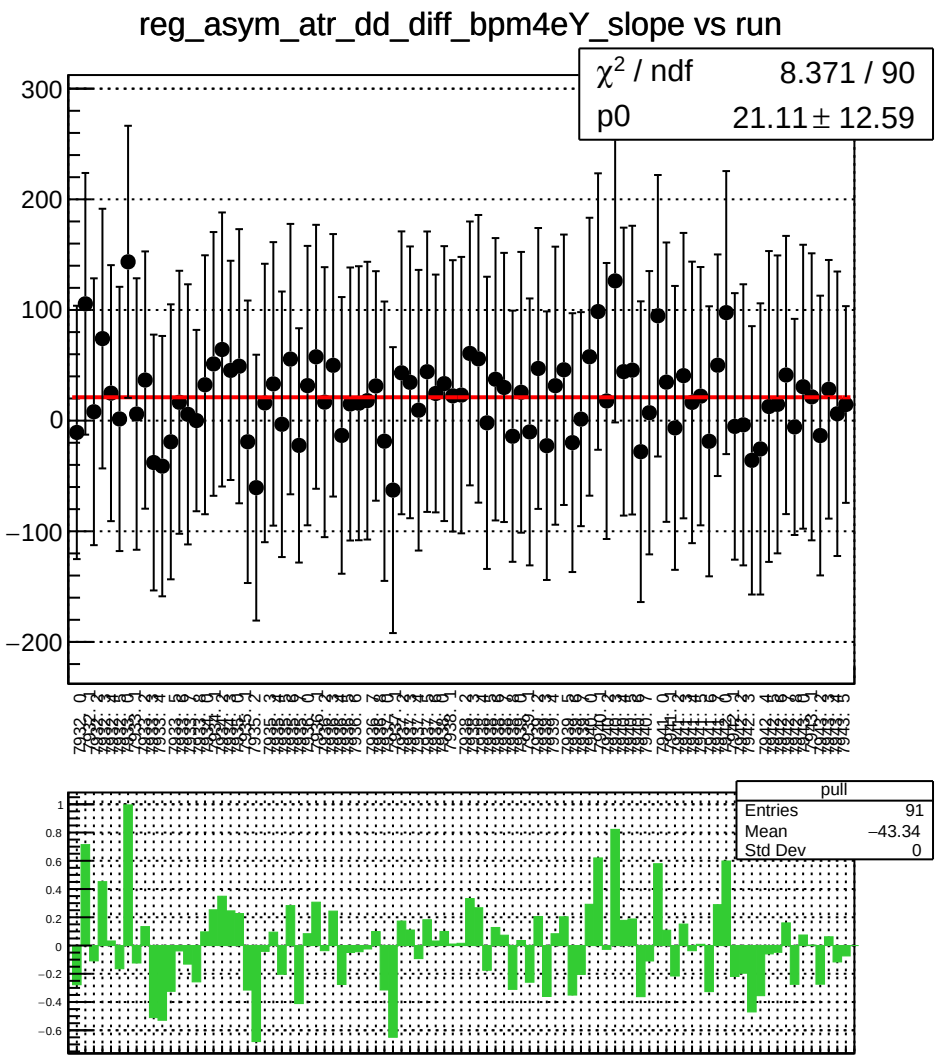

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 12.39 / 90
p0 101.8 ± 10.48
pull
Entries 91
Mean −44.44
Std Dev 0
pull1D
Entries 91
Mean −0.01092
Std Dev 0.3688

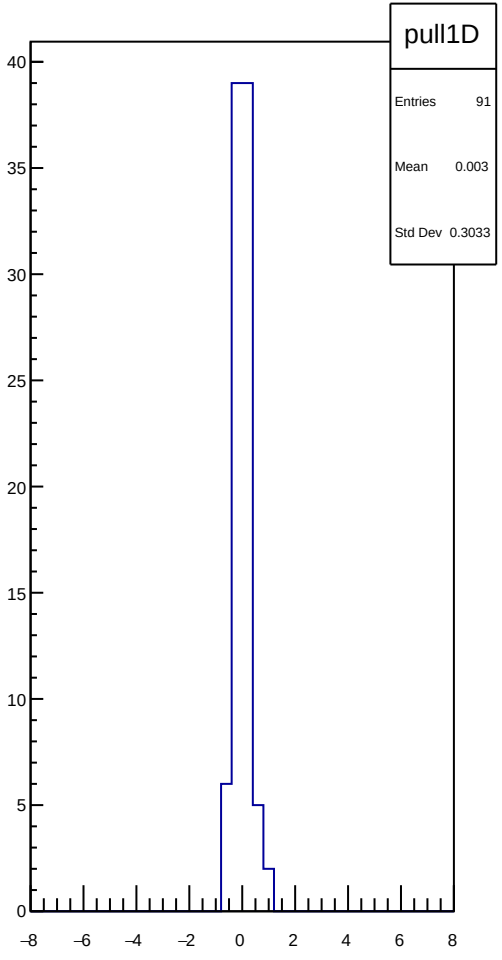

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.34 / 90
p0 −52.4 ± 10.92
pull
Entries 91
Mean −116.6
Std Dev 0

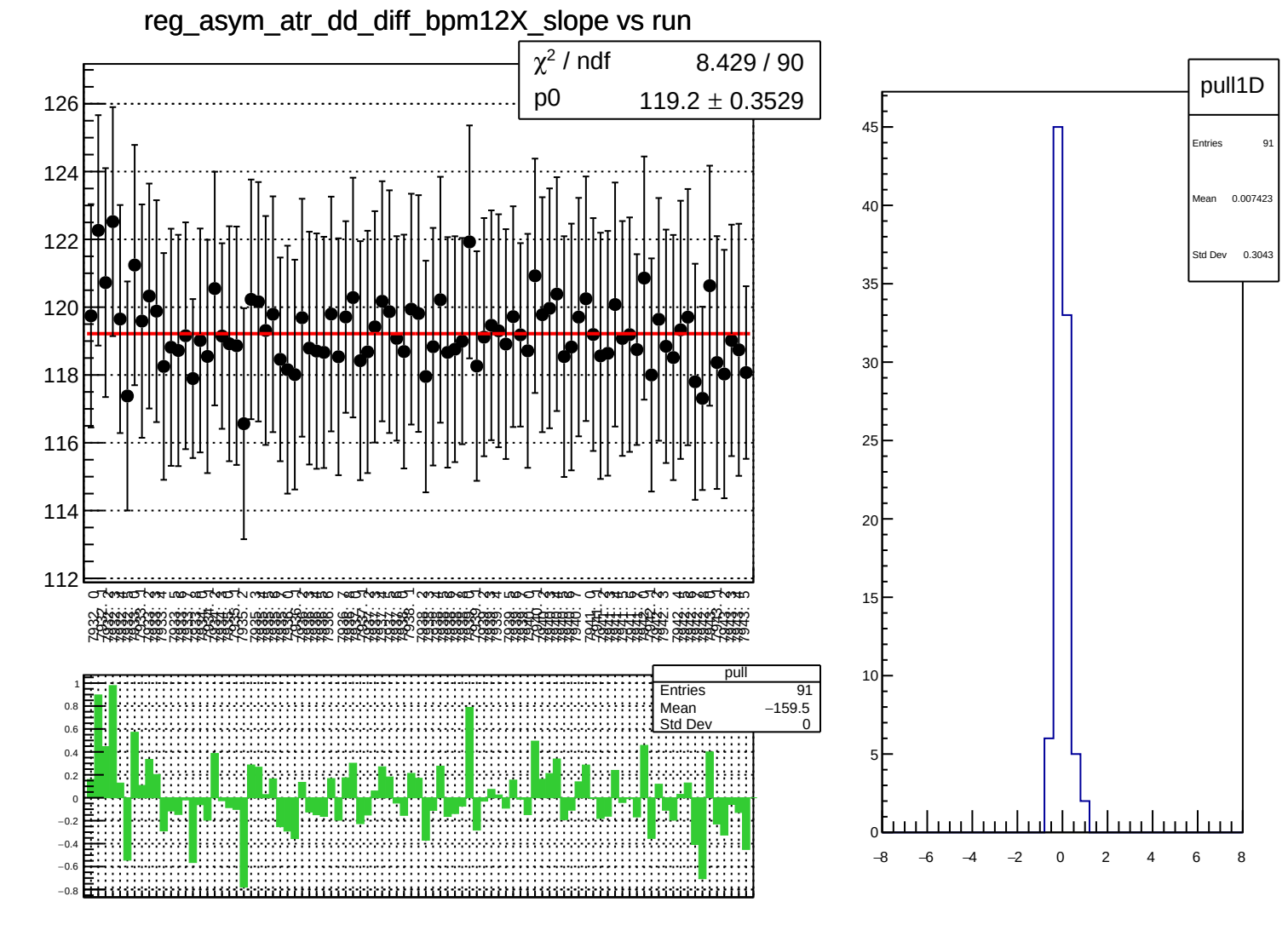

pull1D
Entries 91
Mean −0.002877
Std Dev 0.3027

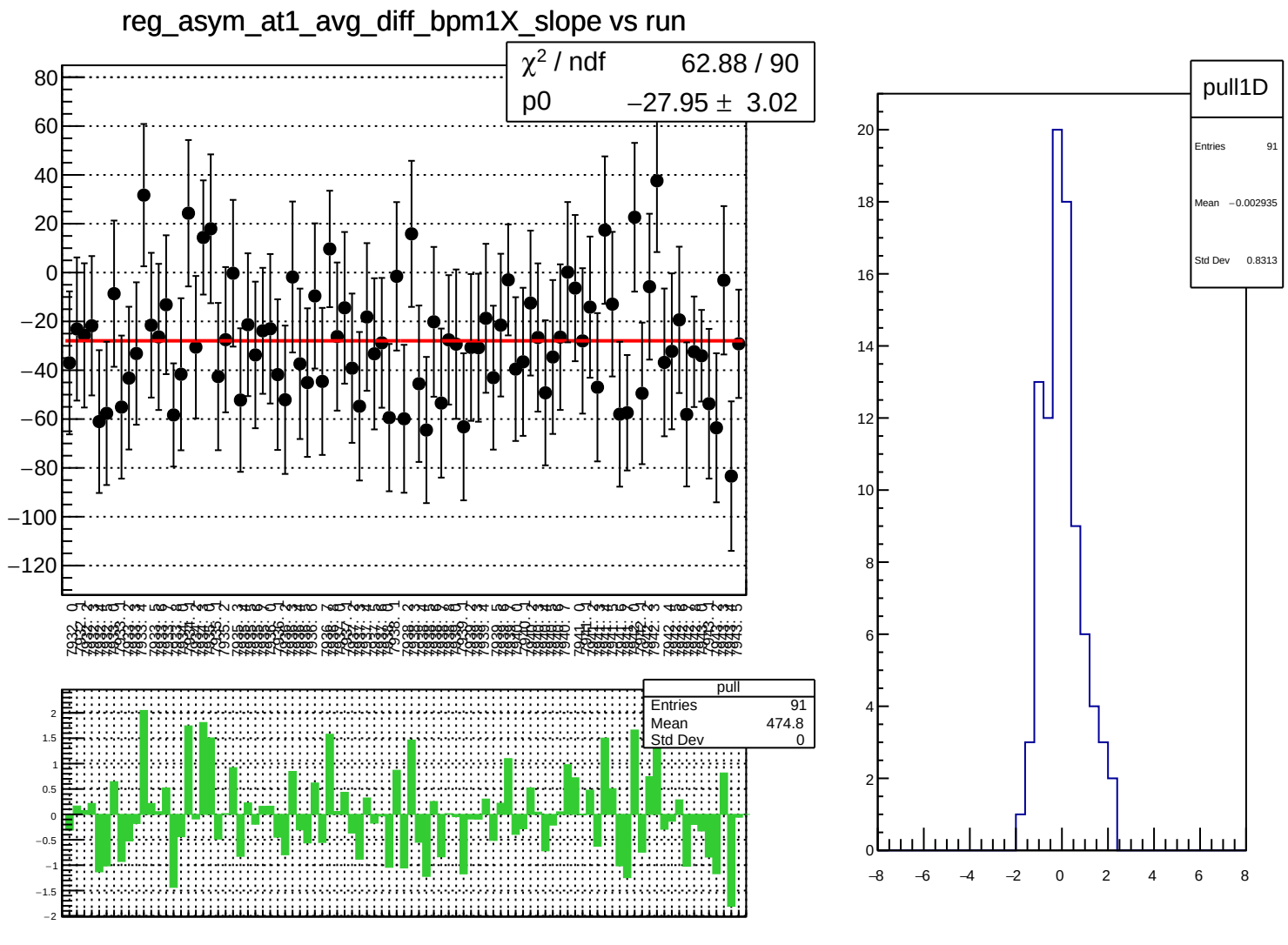

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.5 / 90
p0 −172.3 ± 9.432
pull
Entries 91
Mean −33.24
Std Dev 0

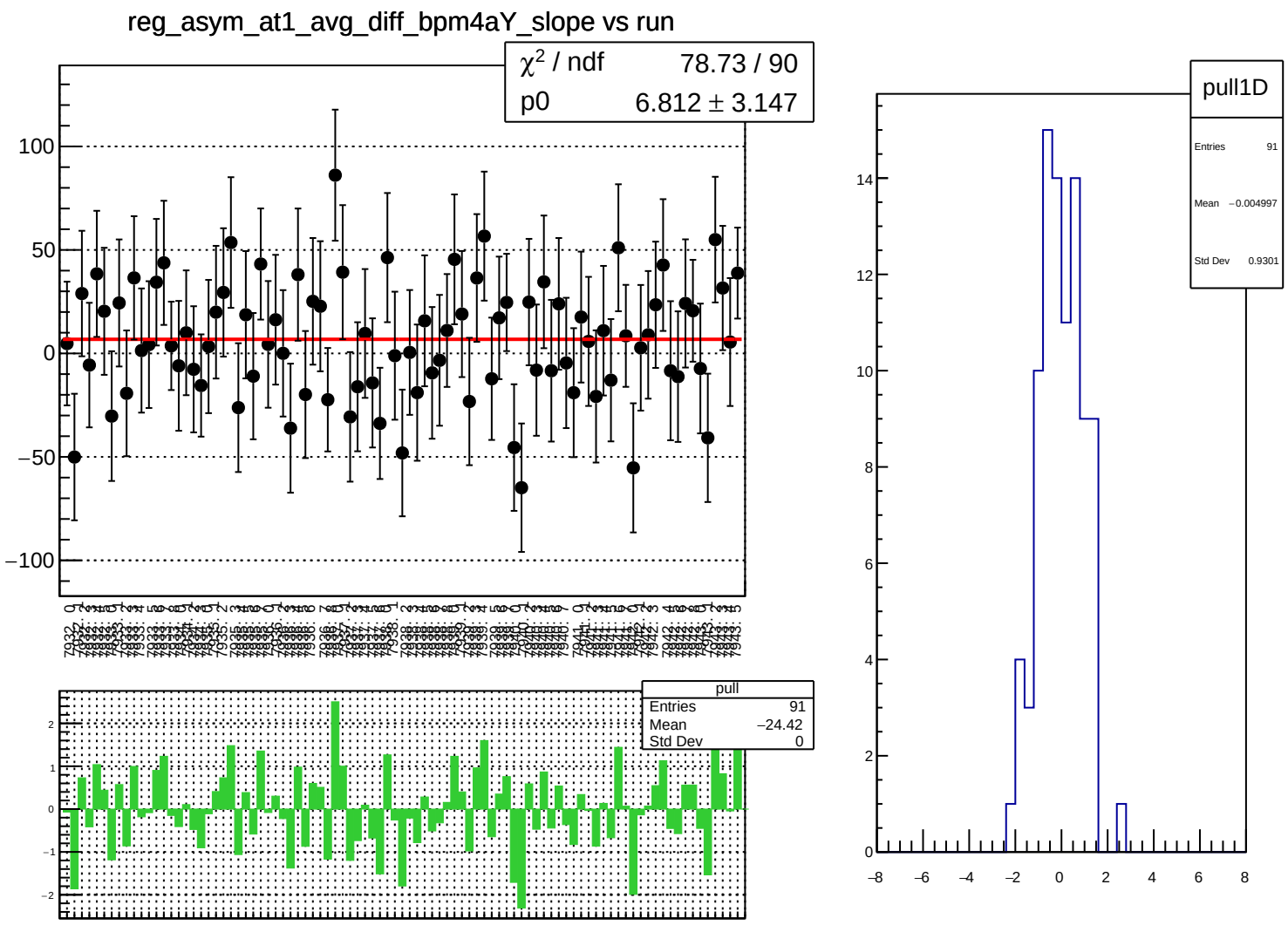

pull1D
Entries 91
Mean 0.01232
Std Dev 0.3704

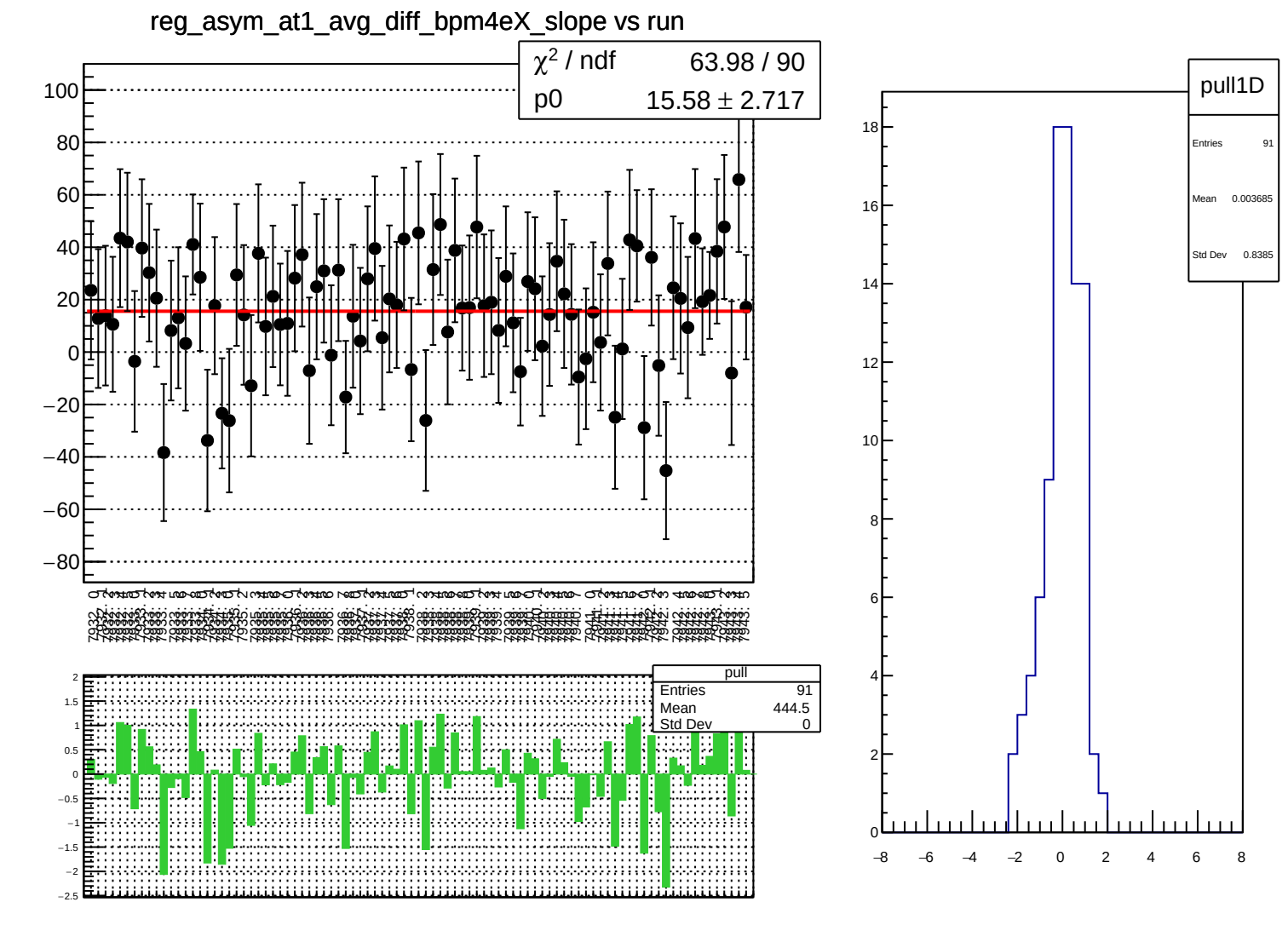

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.371 / 90
p0 21.11 ± 12.59
pull
Entries 91
Mean −43.34
Std Dev 0

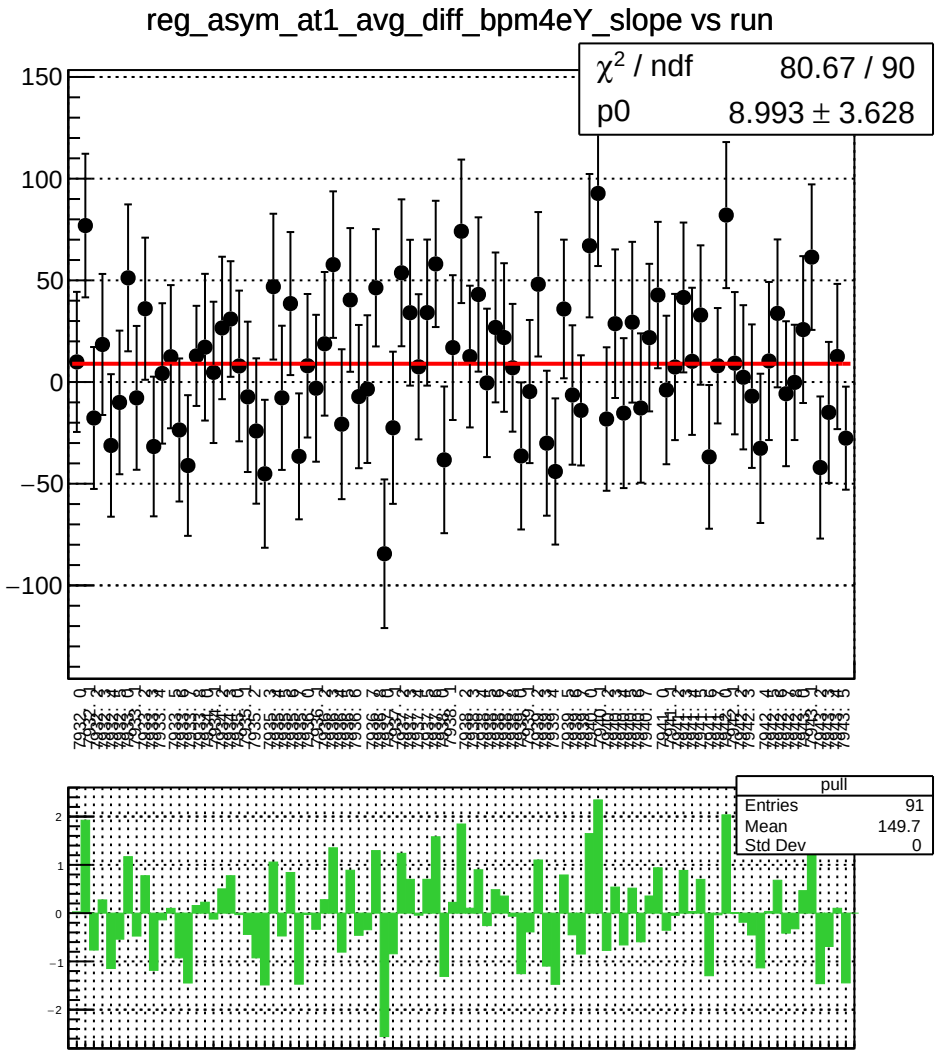

pull1D
Entries 91
Mean 0.003
Std Dev 0.3033

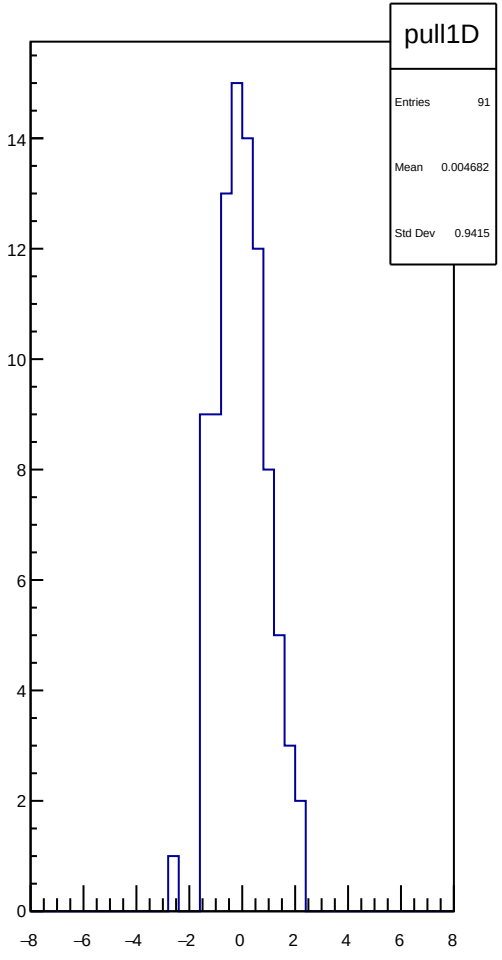

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 8.429 / 90
p0 119.2 ± 0.3529
pull
Entries 91
Mean −159.5
Std Dev 0
pull1D
Entries 91
Mean 0.007423
Std Dev 0.3043

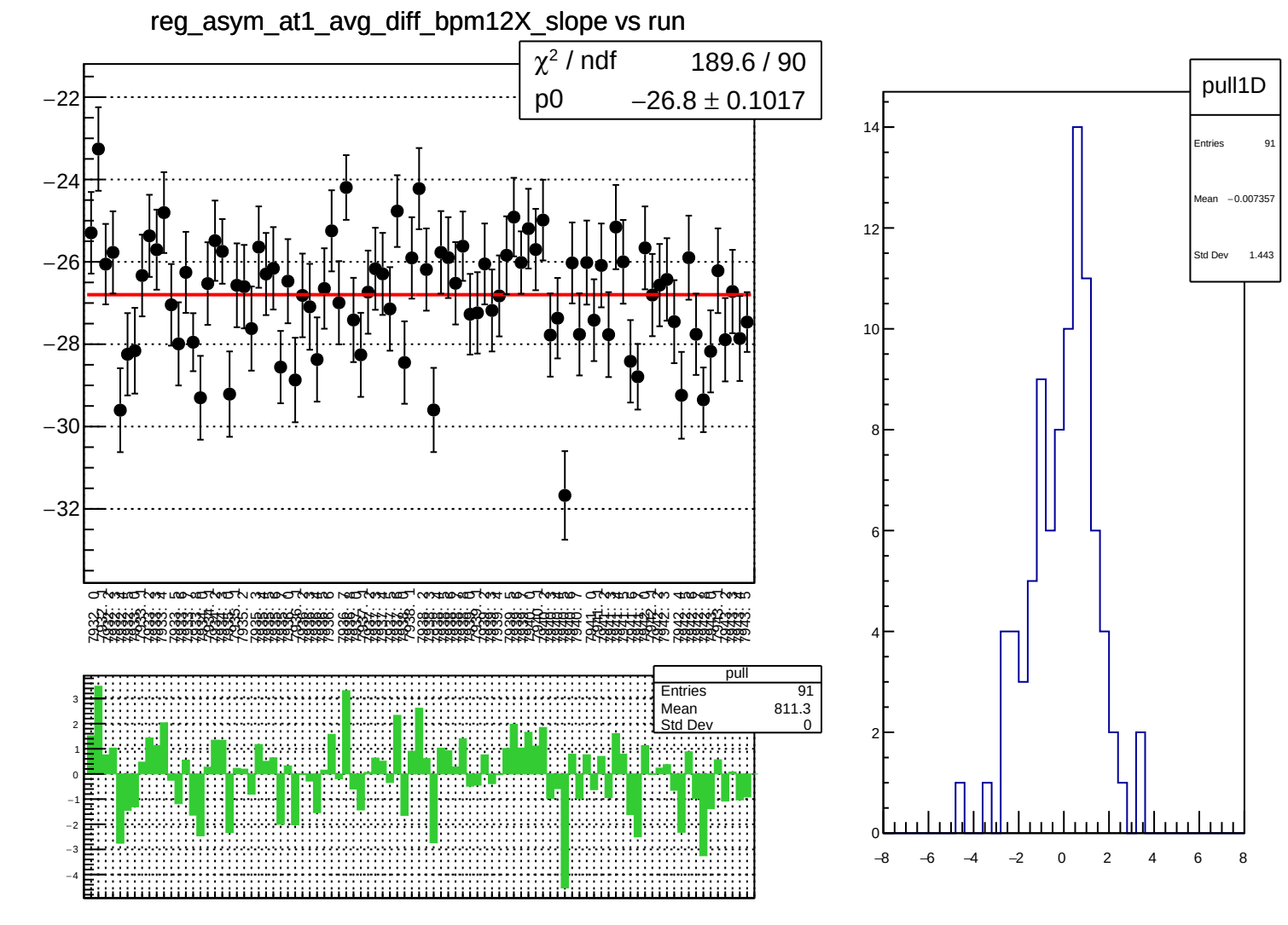

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 62.88 / 90
p0 −27.95 ± 3.02
pull
Entries 91
Mean 474.8
Std Dev 0
pull1D
Entries 91
Mean −0.002935
Std Dev 0.8313

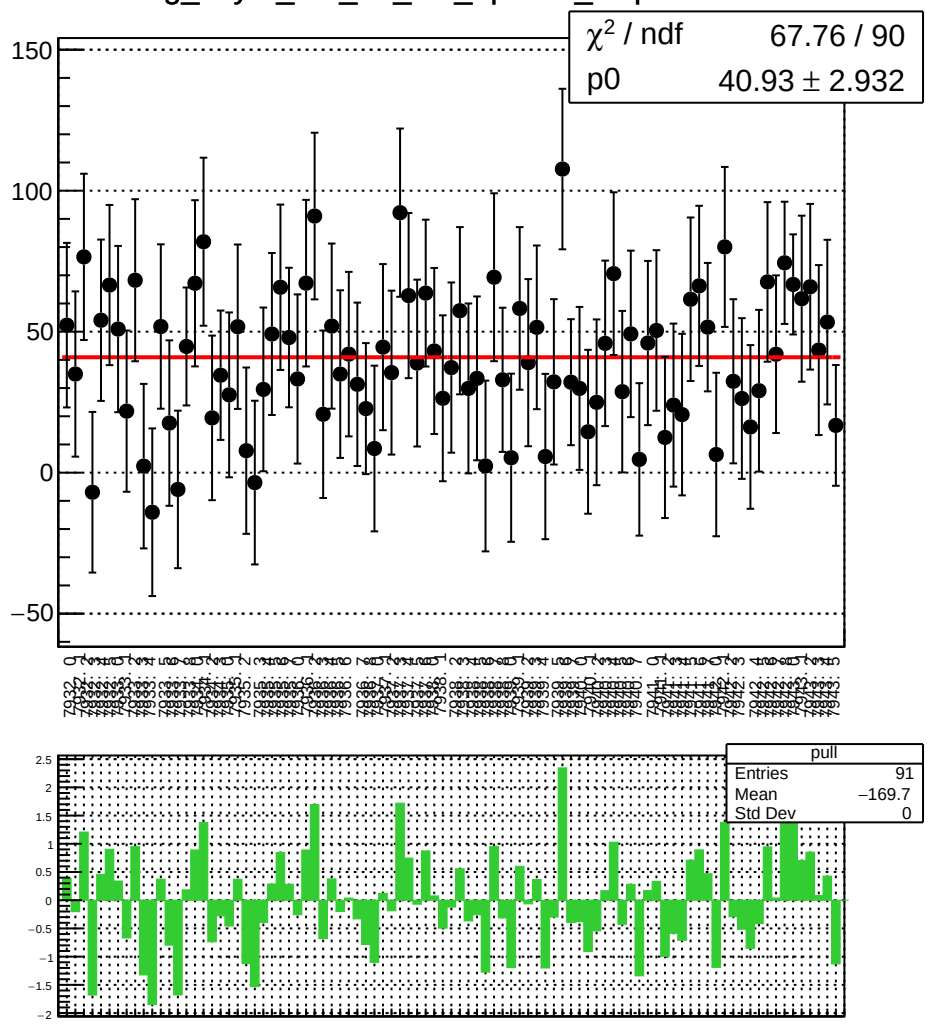

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.73 / 90
p0 6.812 ± 3.147
100
50
0
−50
−100
pull
Entries 91
Mean −24.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.004997
Std Dev 0.9301
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

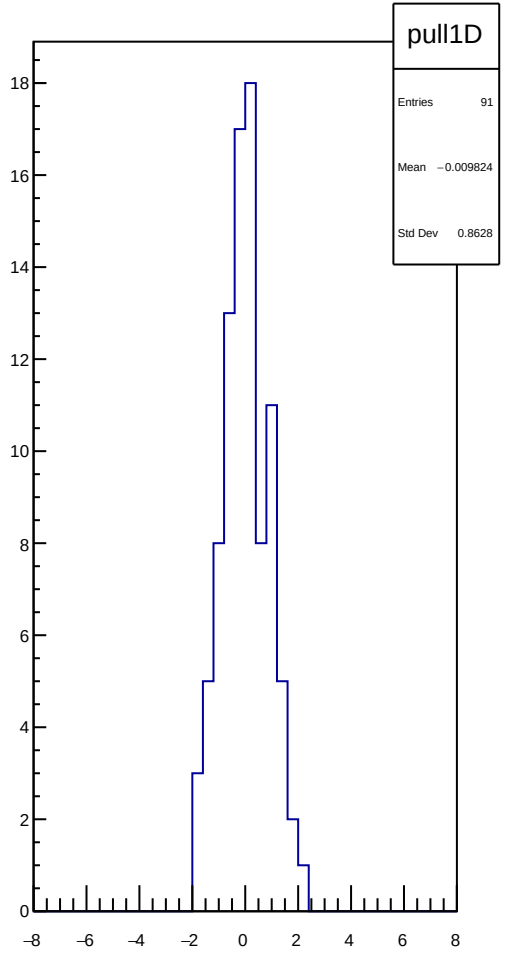

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.98 / 90
p0 15.58 ± 2.717
pull
Entries 91
Mean 444.5
Std Dev 0
pull1D
Entries 91
Mean 0.003685
Std Dev 0.8385

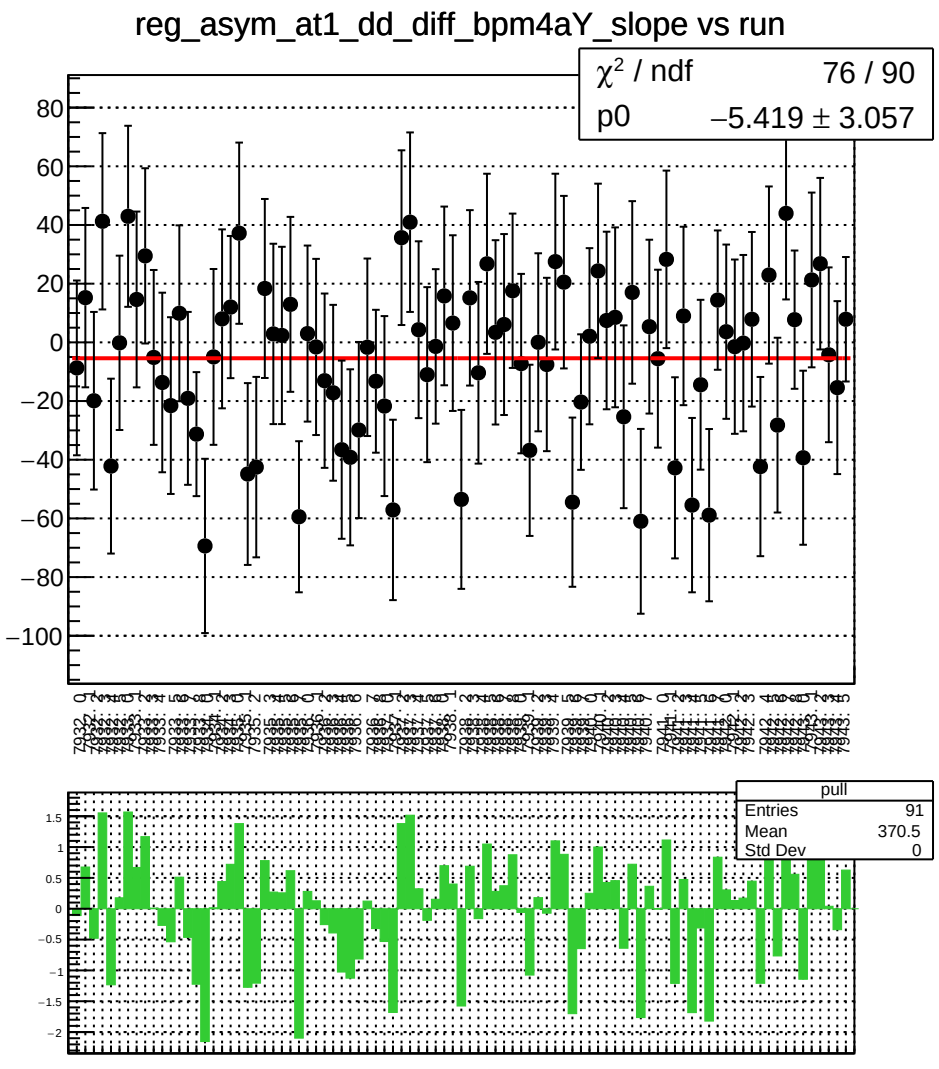

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.67 / 90
p0 8.993 ± 3.628
150
100
50
0
−50
−100
pull
Entries 91
Mean 149.7
Std Dev 0
2
1
0
−1
−2

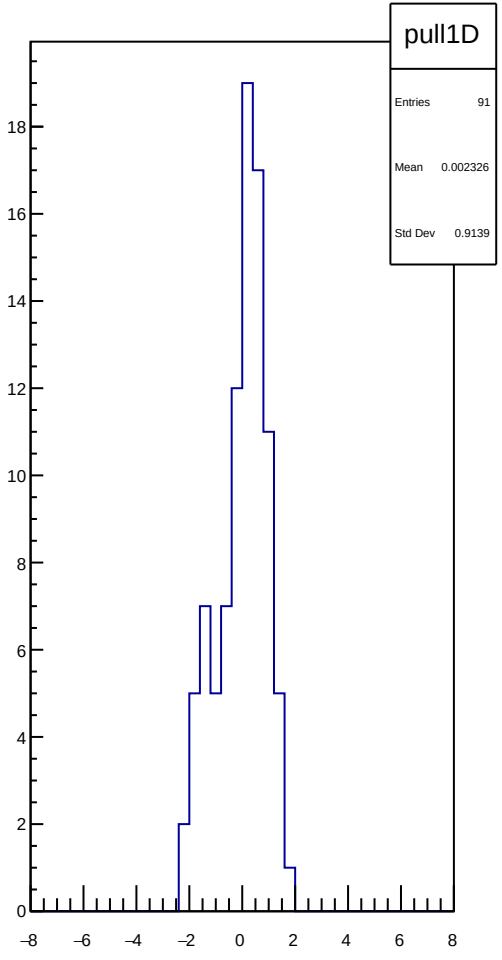

pull1D
Entries 91
Mean 0.004682
Std Dev 0.9415
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

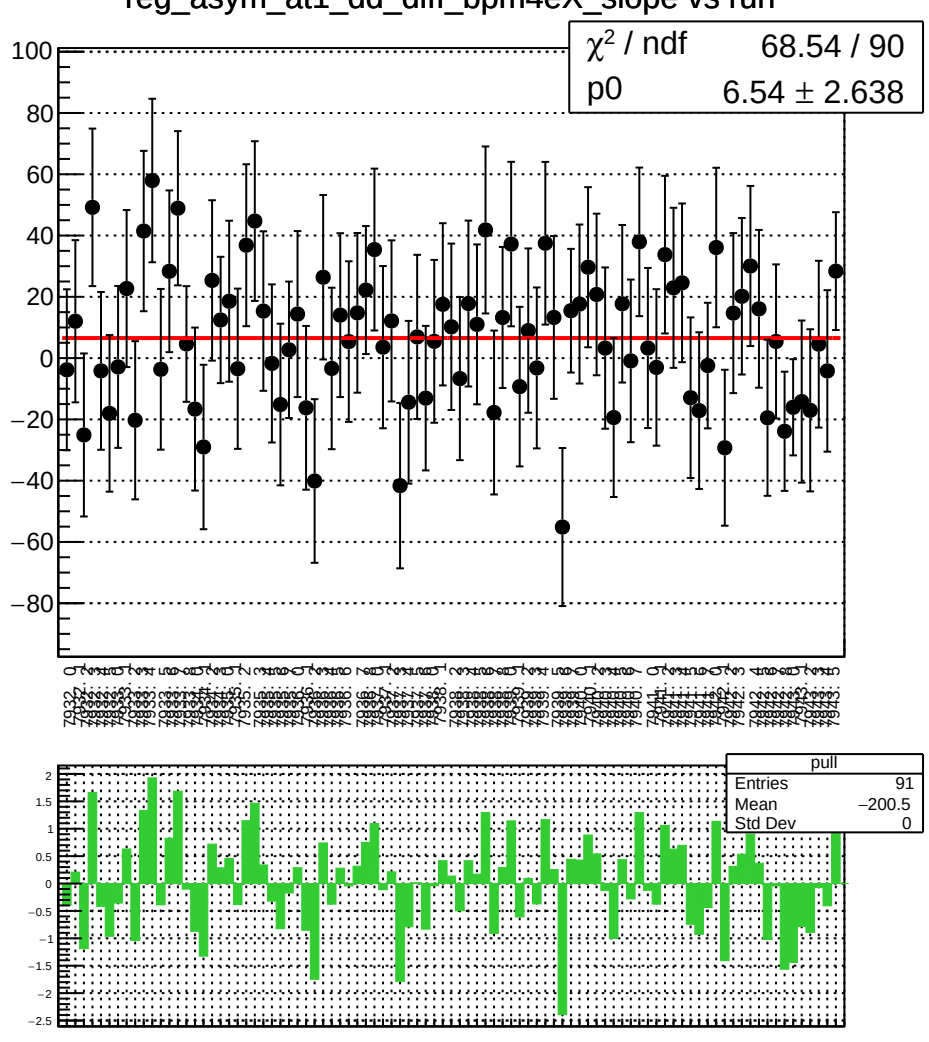

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 189.6 / 90
p0 −26.8 ± 0.1017
pull
Entries 91
Mean 811.3
Std Dev 0
pull1D
Entries 91
Mean −0.007357
Std Dev 1.443

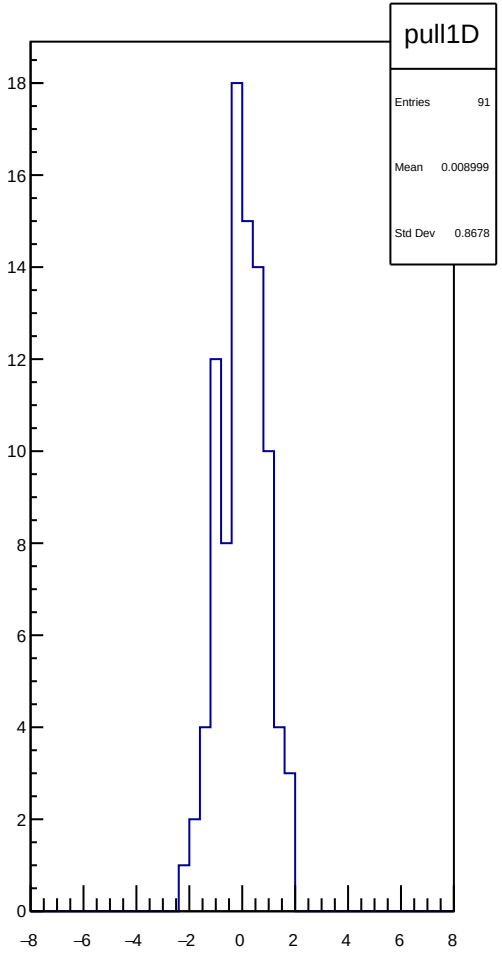

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 67.76 / 90
p0 40.93 ± 2.932
150
100
50
0
−50
pull
Entries 91
Mean −169.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

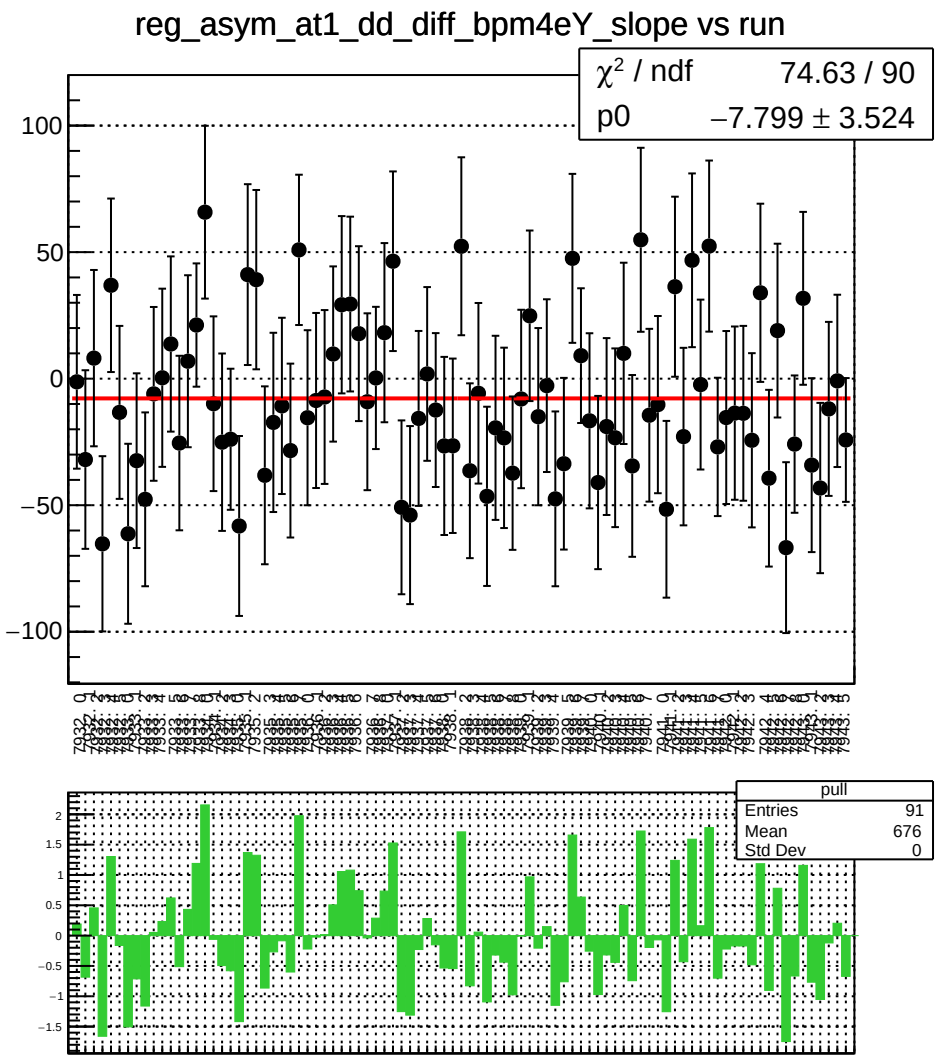

pull1D
Entries 91
Mean −0.009824
Std Dev 0.8628
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

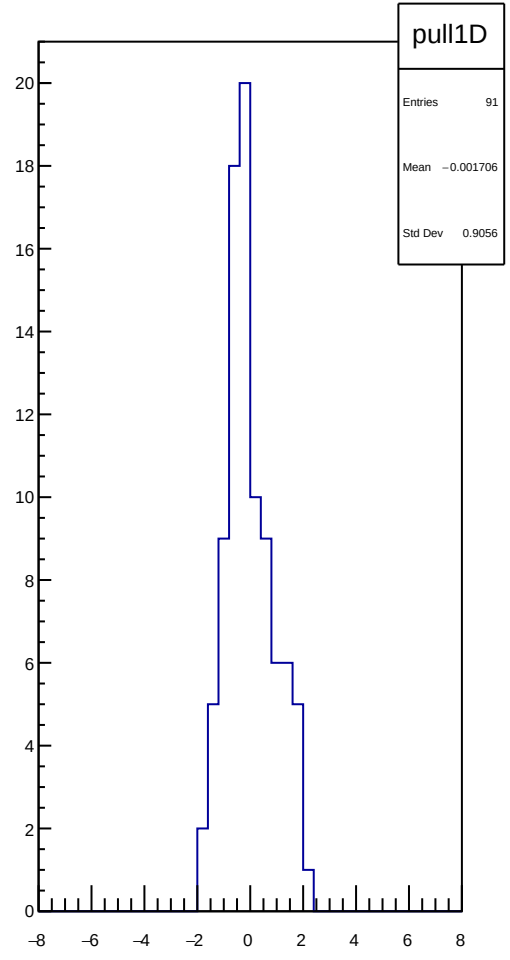

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 76 / 90
p0 −5.419 ± 3.057
pull
Entries 91
Mean 370.5
Std Dev 0

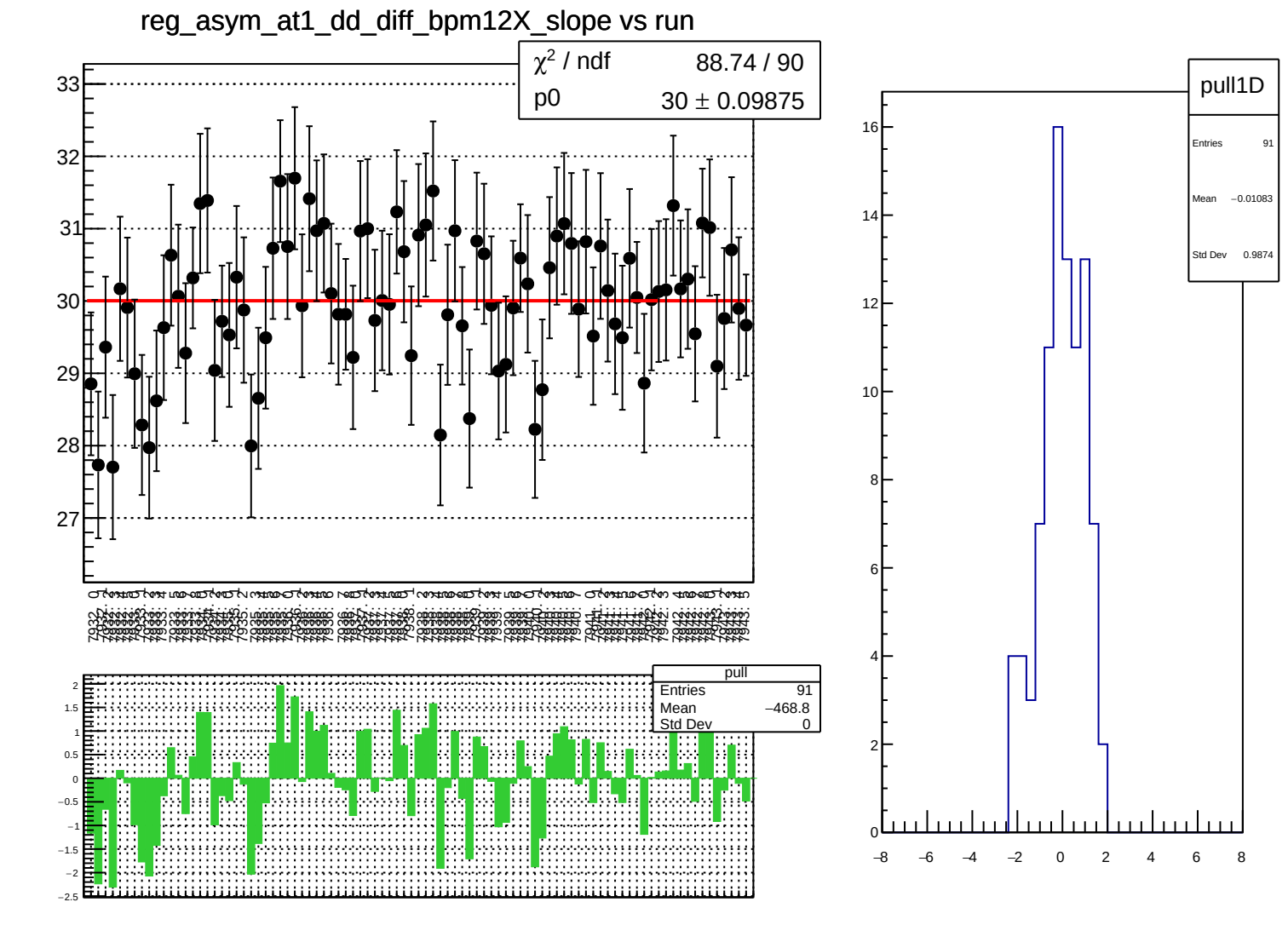

pull1D
Entries 91
Mean 0.002326
Std Dev 0.9139

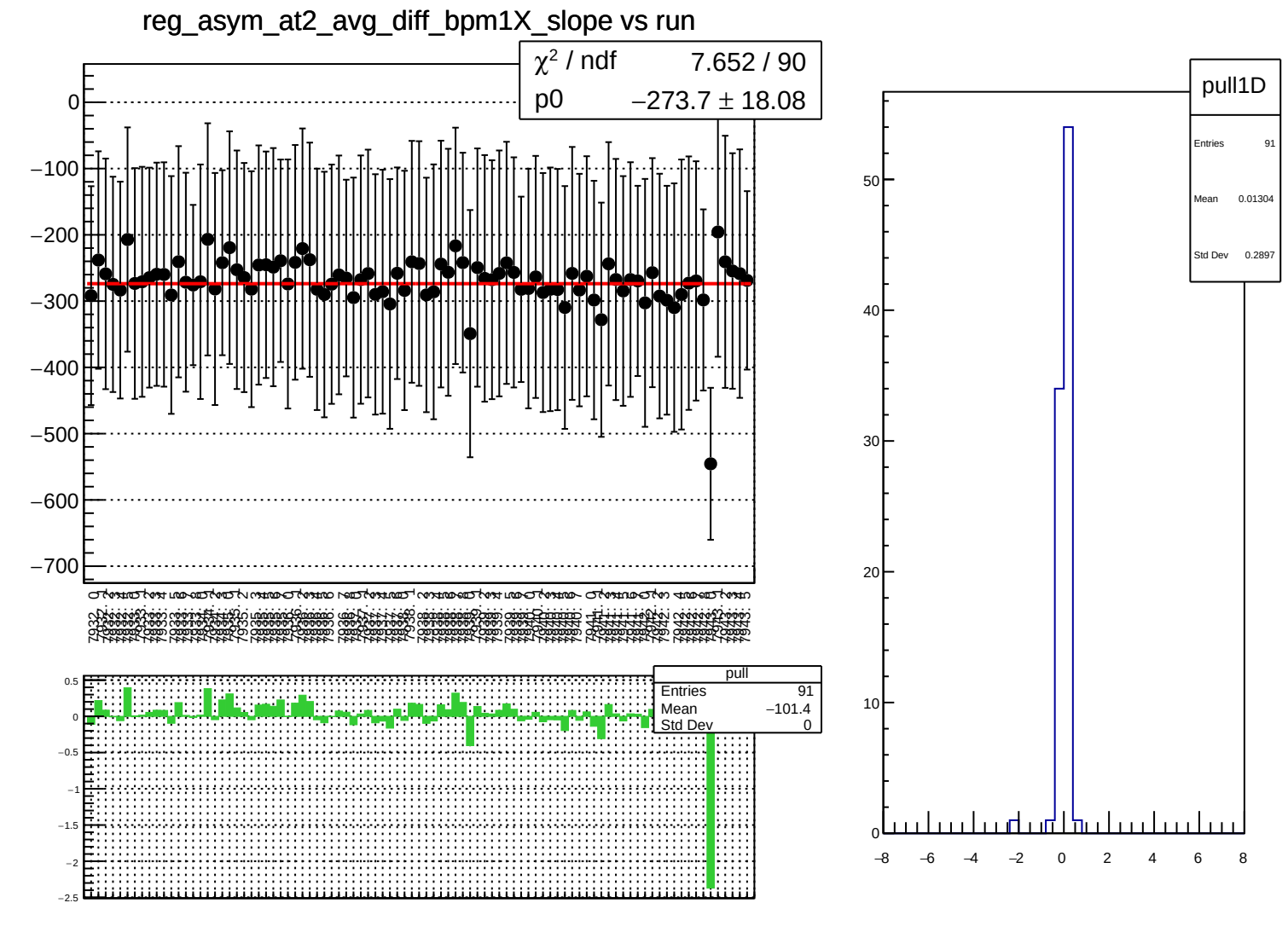

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.54 / 90
p0 6.54 ± 2.638
pull
Entries 91
Mean −200.5
Std Dev 0

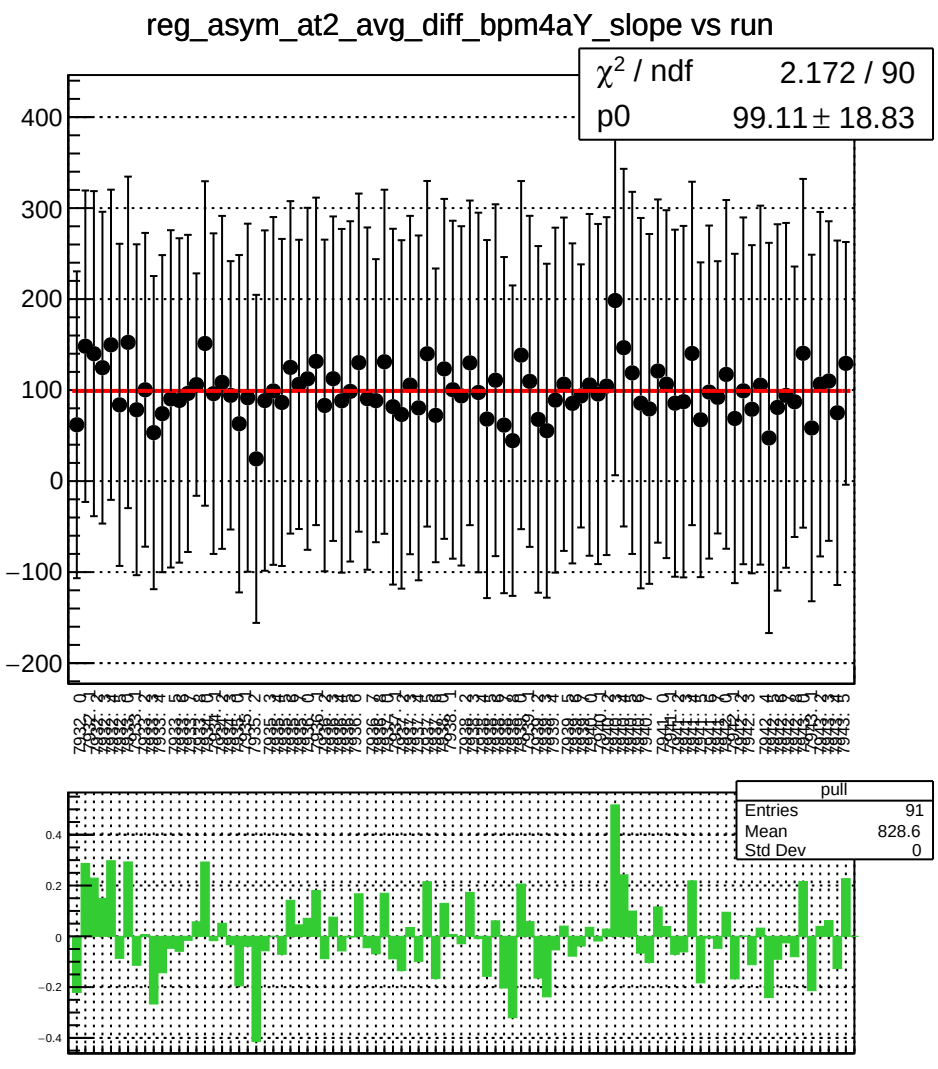

pull1D
Entries 91
Mean 0.008999
Std Dev 0.8678

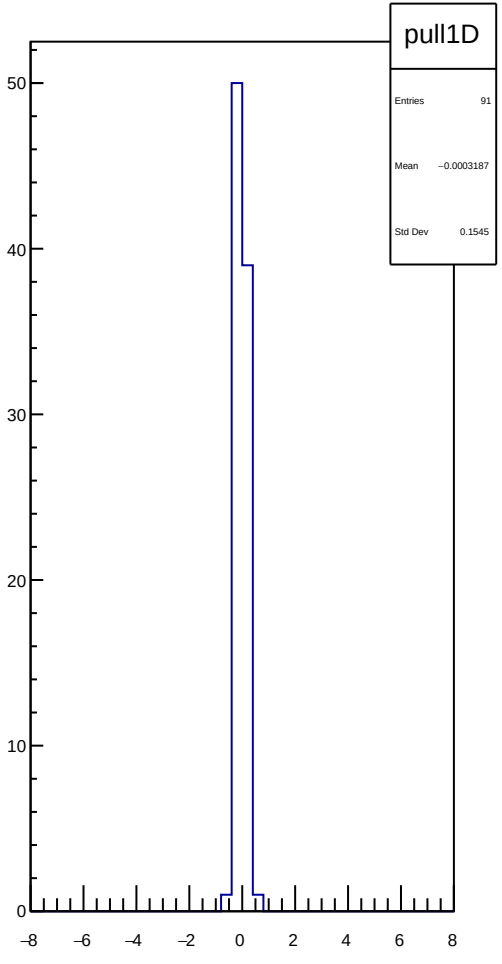

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.63 / 90
p0 −7.799 ± 3.524
100
50
0
−50
−100
pull
Entries 91
Mean 676
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

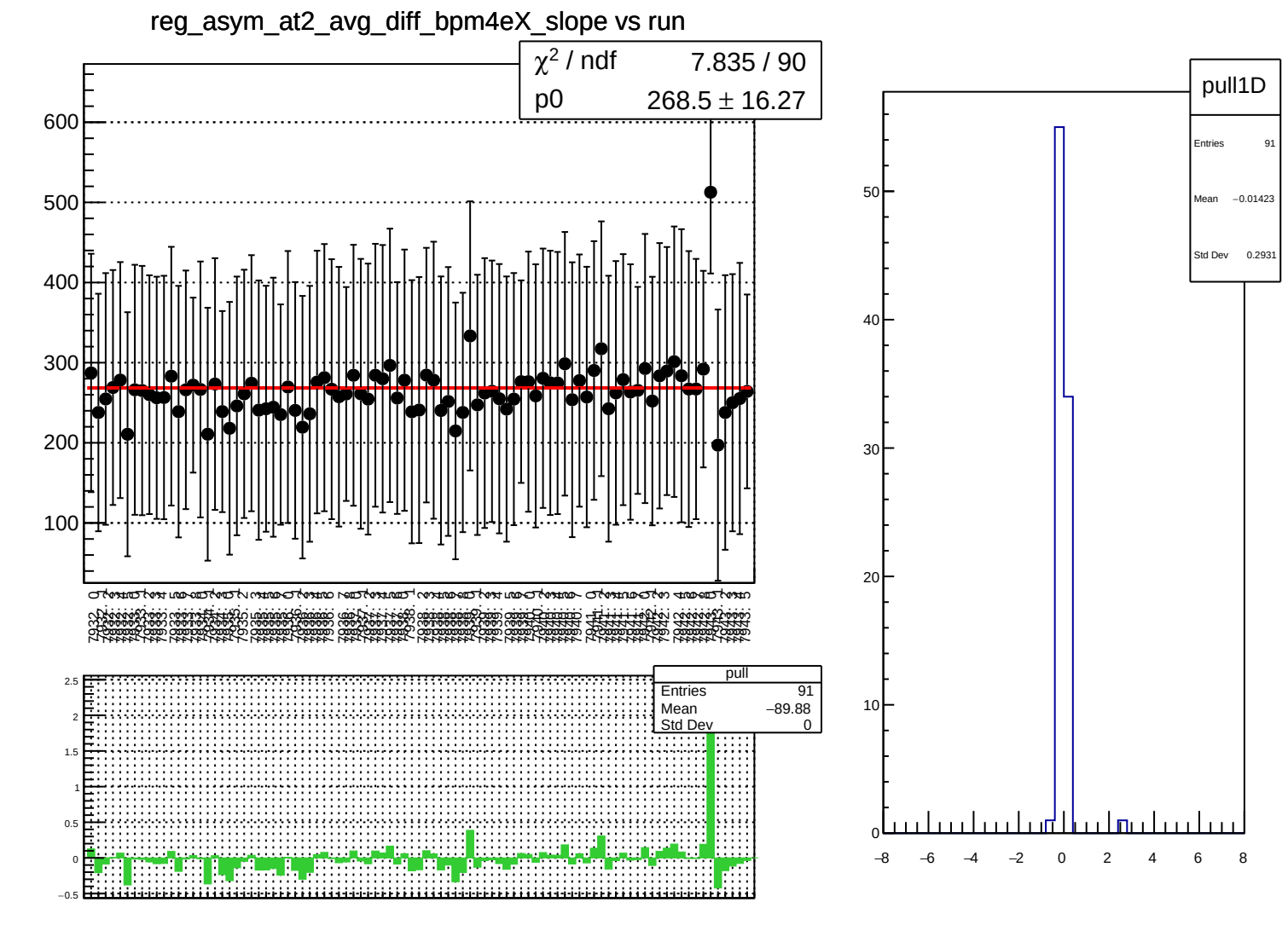

pull1D
Entries 91
Mean −0.001706
Std Dev 0.9056
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

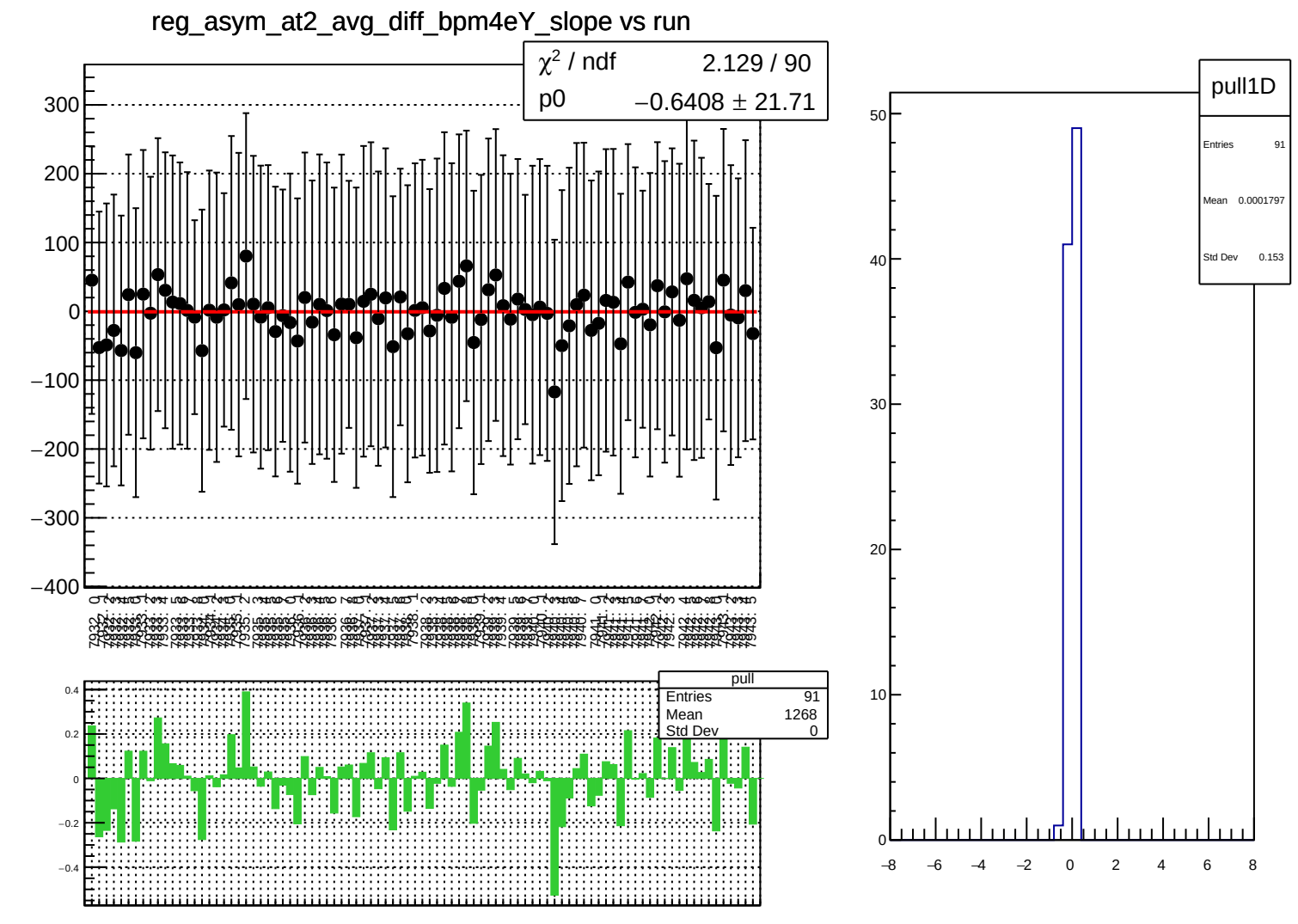

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 88.74 / 90
p0 30 ± 0.09875
pull
Entries 91
Mean −468.8
Std Dev 0
pull1D
Entries 91
Mean −0.01083
Std Dev 0.9874

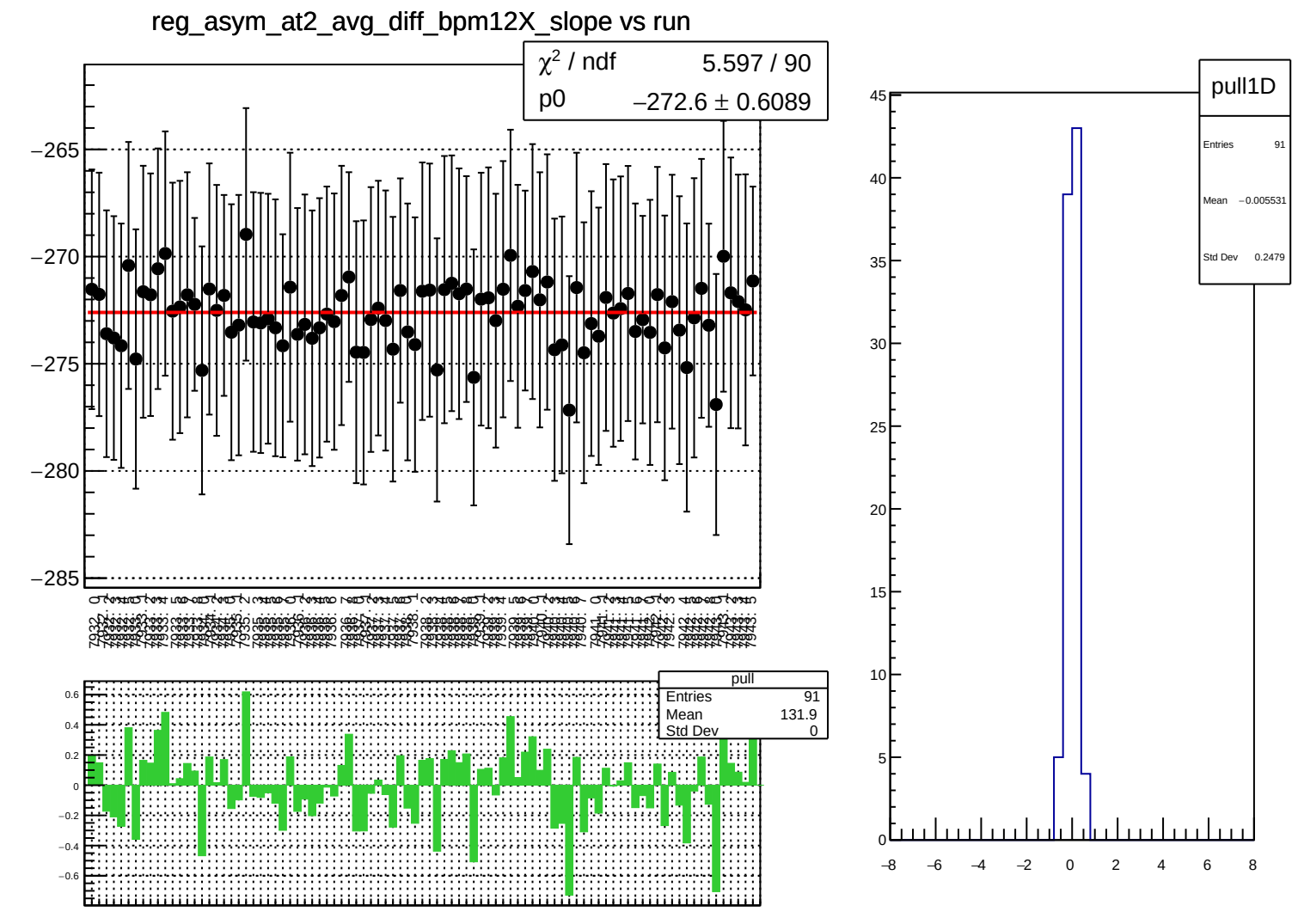

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.652 / 90
p0 −273.7 ± 18.08
pull
Entries 91
Mean −101.4
Std Dev 0
pull1D
Entries 91
Mean 0.01304
Std Dev 0.2897

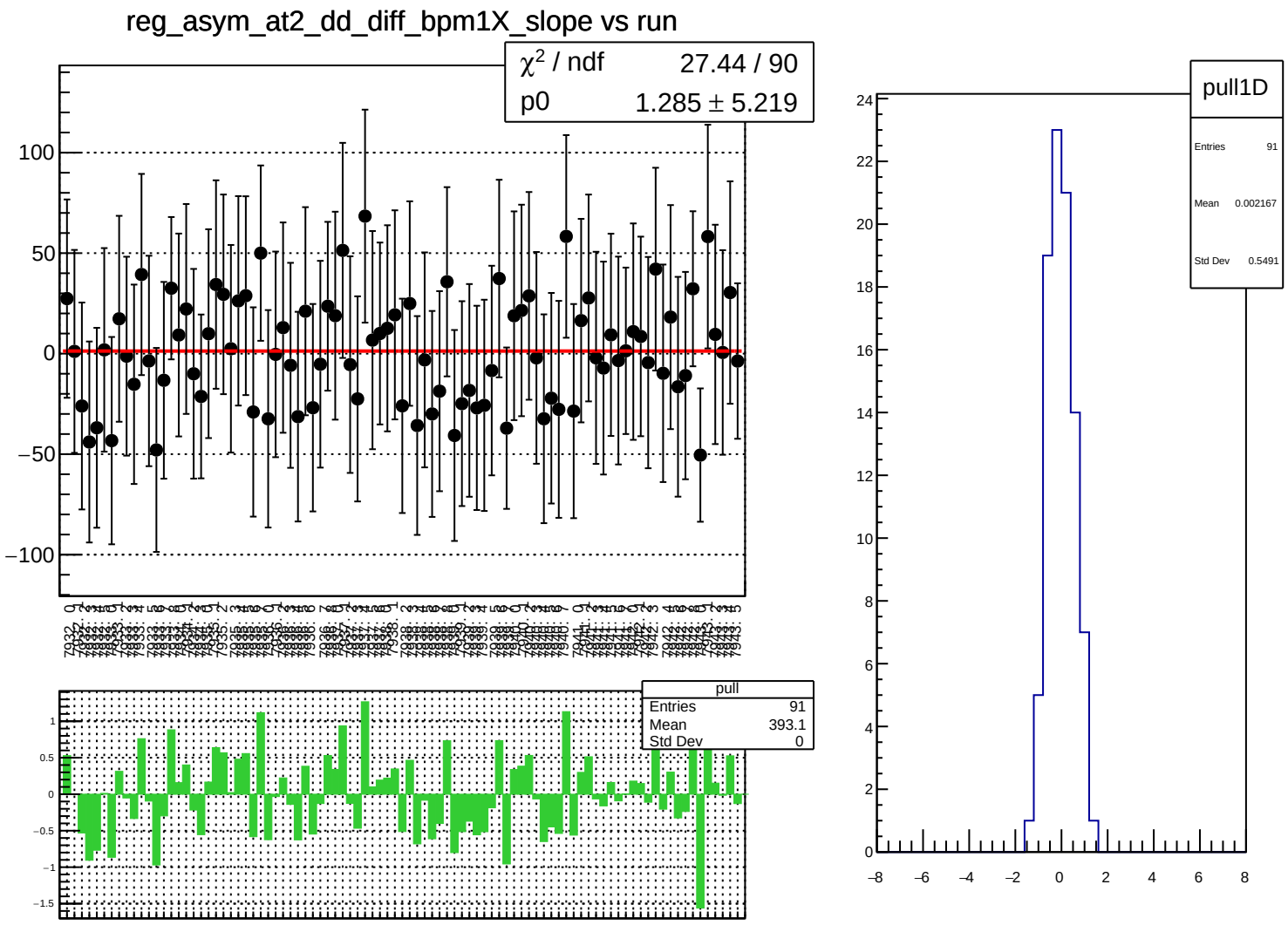

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.172 / 90
p0 99.11 ± 18.83
pull
Entries 91
Mean 828.6
Std Dev 0

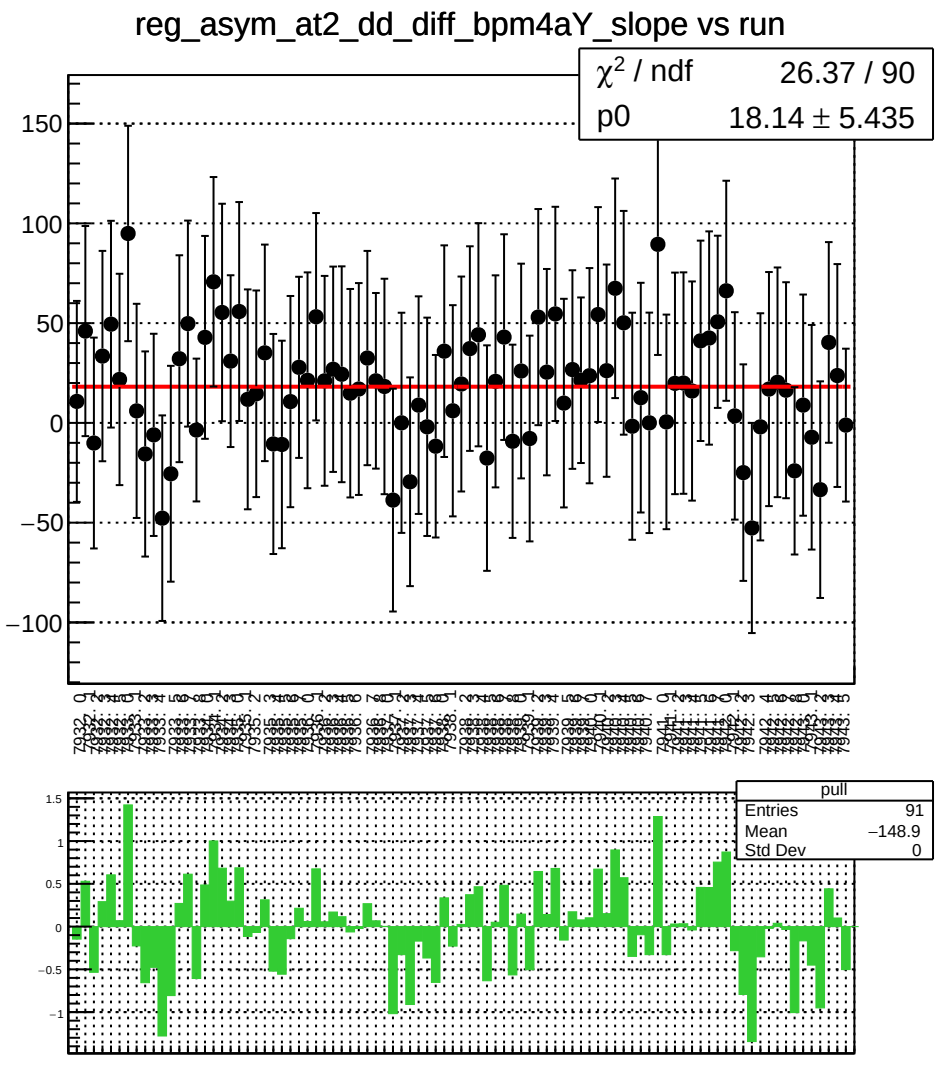

pull1D
Entries 91
Mean −0.0003187
Std Dev 0.1545

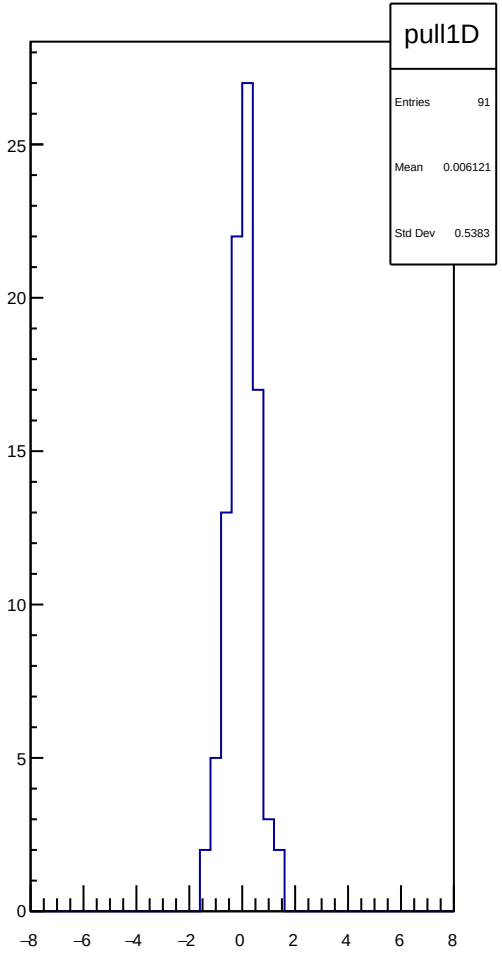

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.835 / 90
p0 268.5 ± 16.27
600
500
400
300
200
100
pull
Entries 91
Mean −89.88
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.01423
Std Dev 0.2931
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

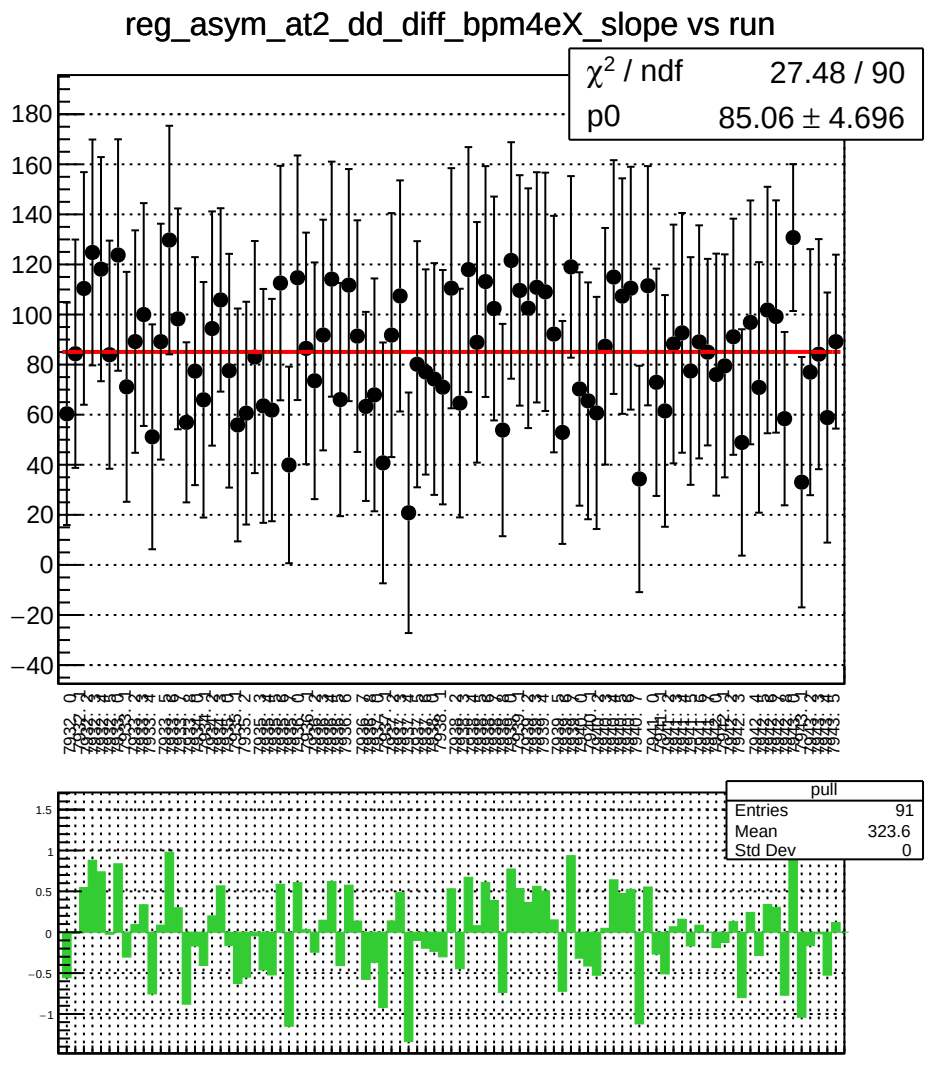

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.129 / 90
p0 −0.6408 ± 21.71
pull
Entries 91
Mean 1268
Std Dev 0
pull1D
Entries 91
Mean 0.0001797
Std Dev 0.153

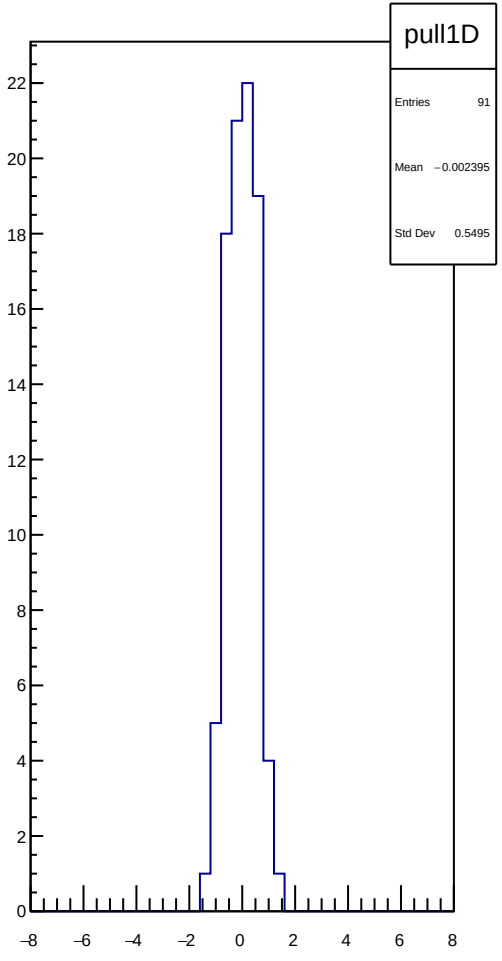

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 5.597 / 90
p0 −272.6 ± 0.6089
−265
−270
−275
−280
−285
pull
Entries 91
Mean 131.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean −0.005531
Std Dev 0.2479
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

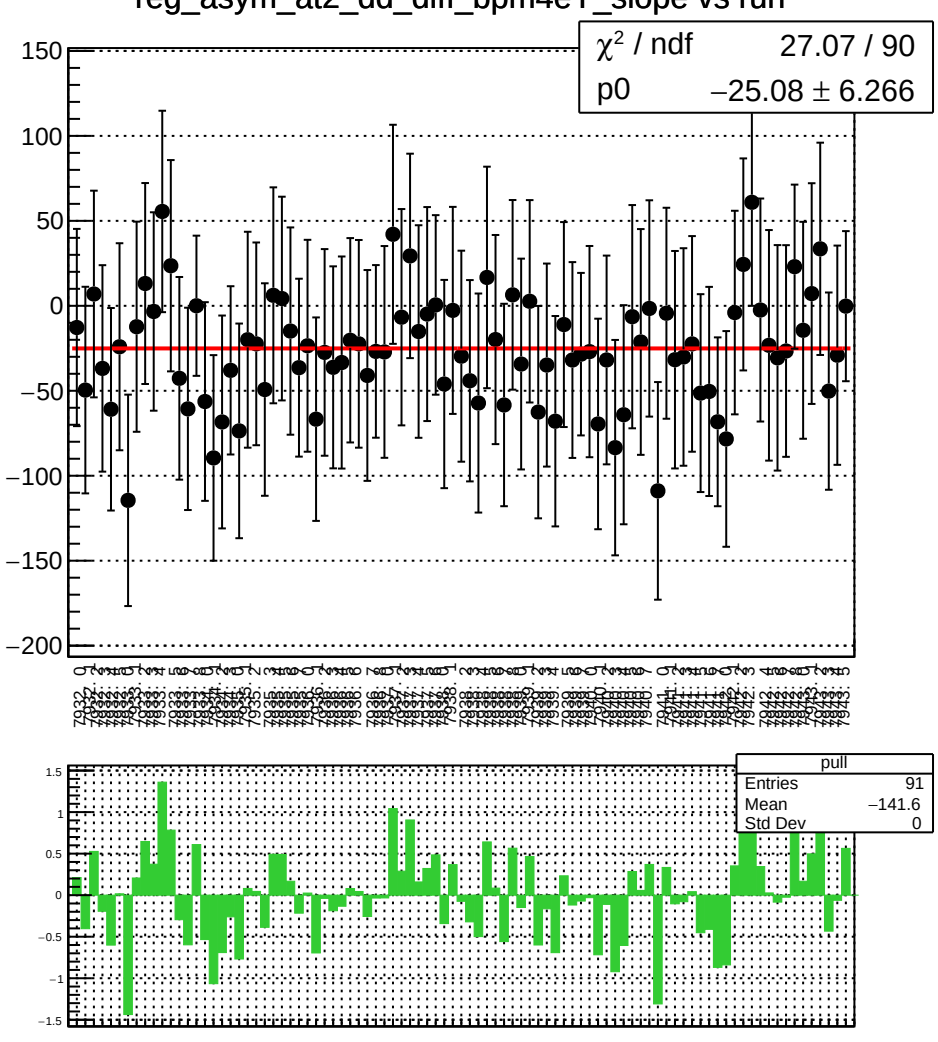

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.44 / 90
p0 1.285 ± 5.219
pull
Entries 91
Mean 393.1
Std Dev 0
pull1D
Entries 91
Mean 0.002167
Std Dev 0.5491

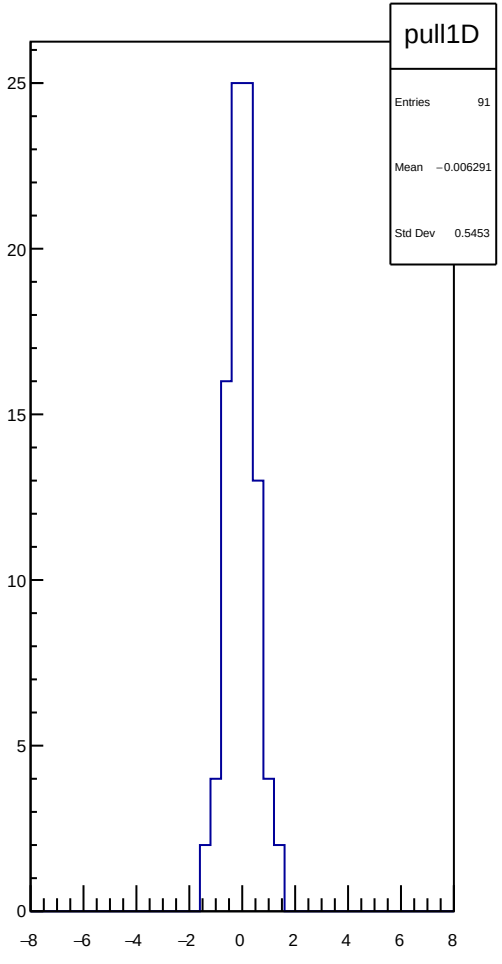

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.37 / 90
p0 18.14 ± 5.435
150
100
50
0
−50
−100
pull
Entries 91
Mean −148.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

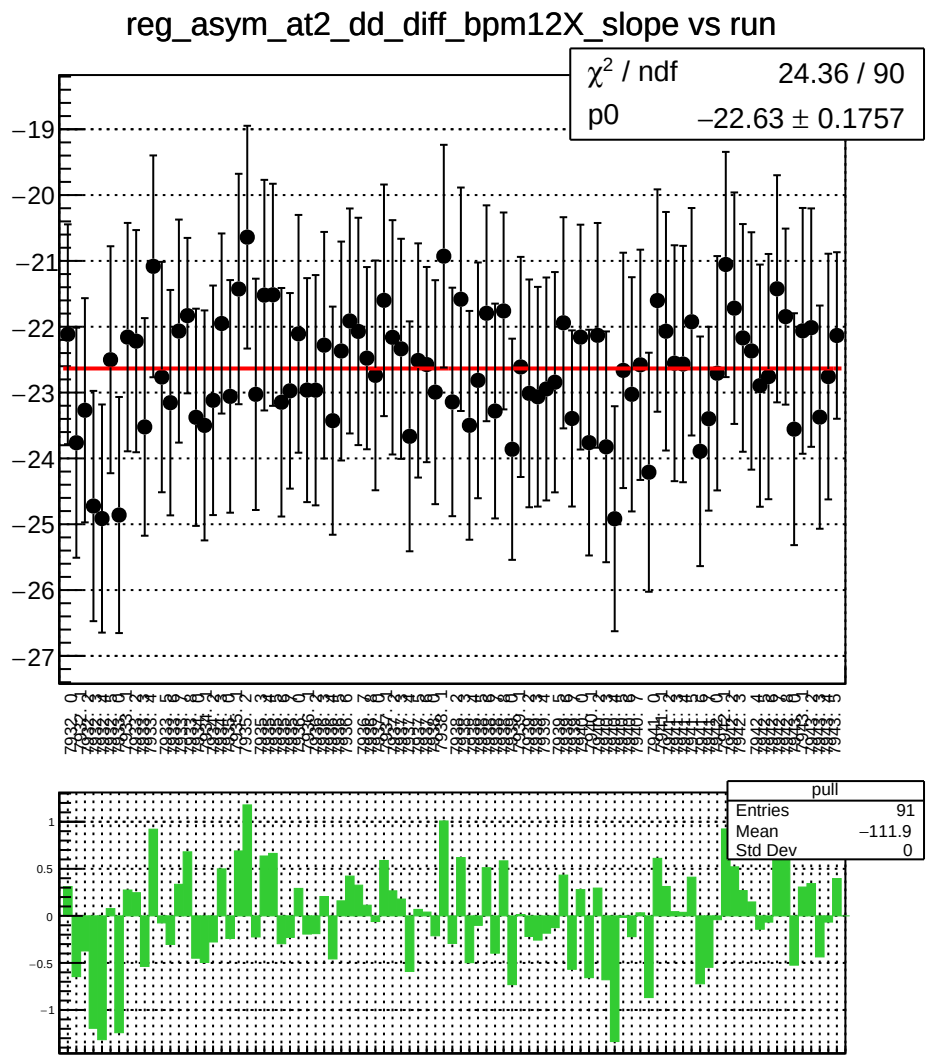

pull1D
Entries 91
Mean 0.006121
Std Dev 0.5383
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

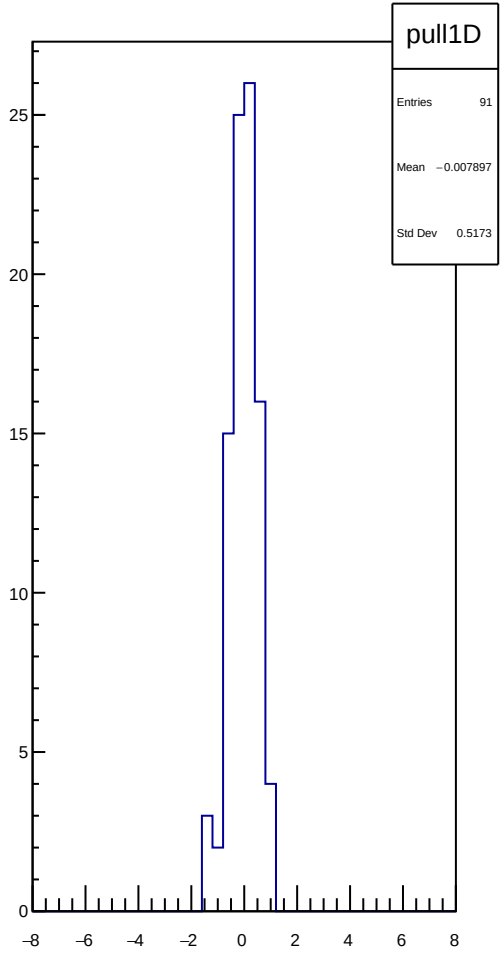

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.48 / 90
p0 85.06 ± 4.696
pull
Entries 91
Mean 323.6
Std Dev 0

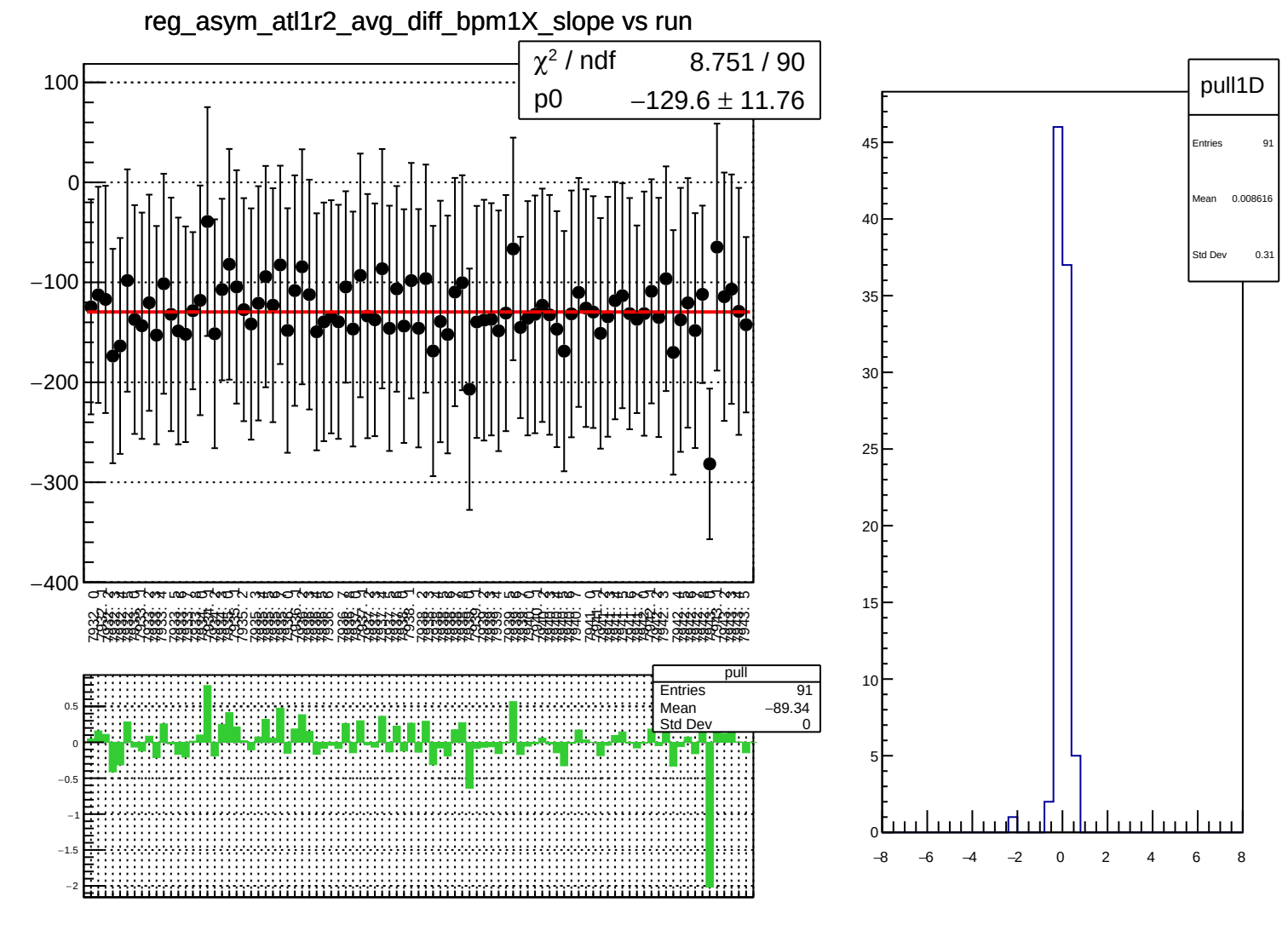

pull1D
Entries 91
Mean −0.002395
Std Dev 0.5495

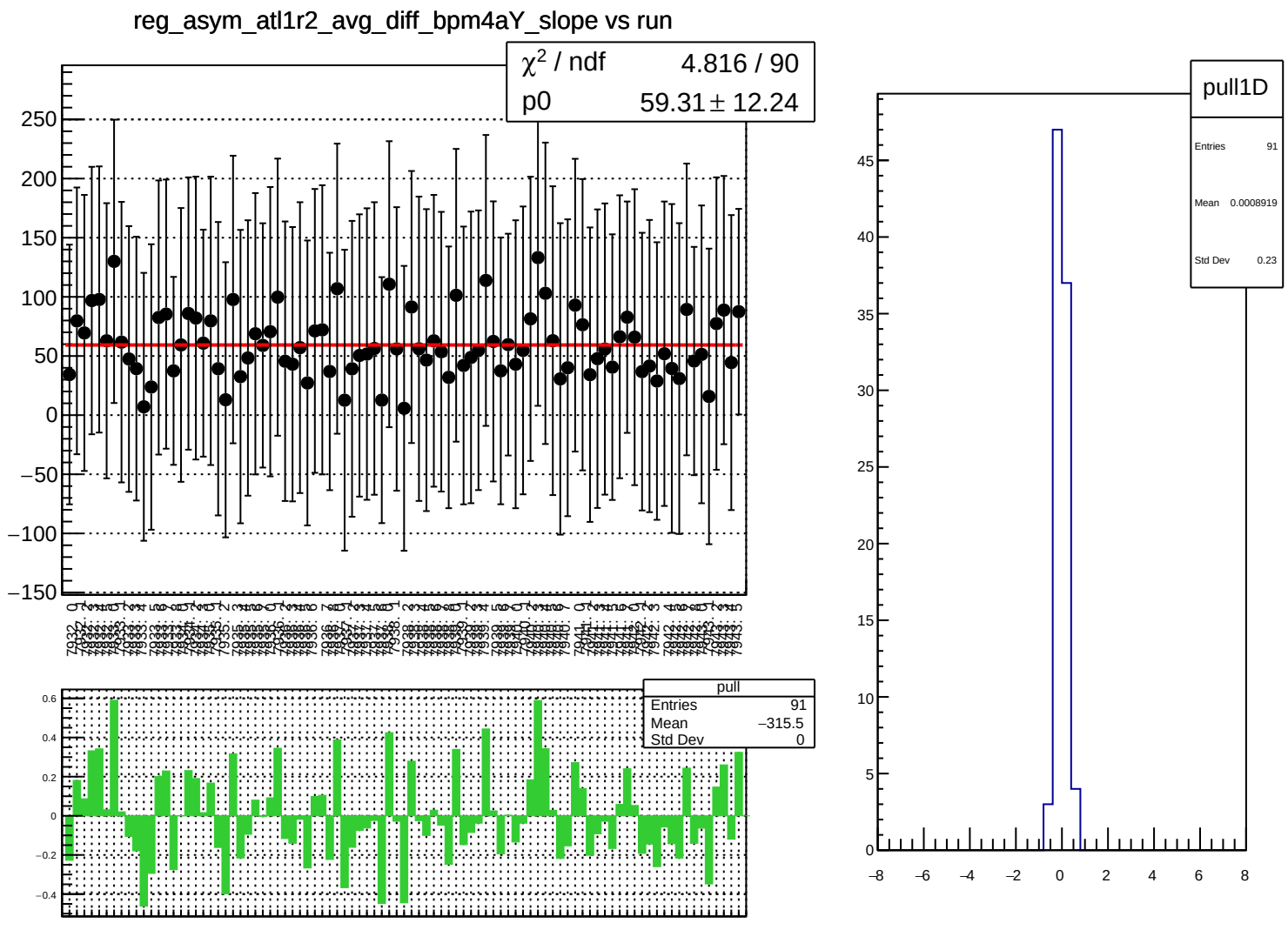

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.07 / 90
p0 −25.08 ± 6.266
pull
Entries 91
Mean −141.6
Std Dev 0

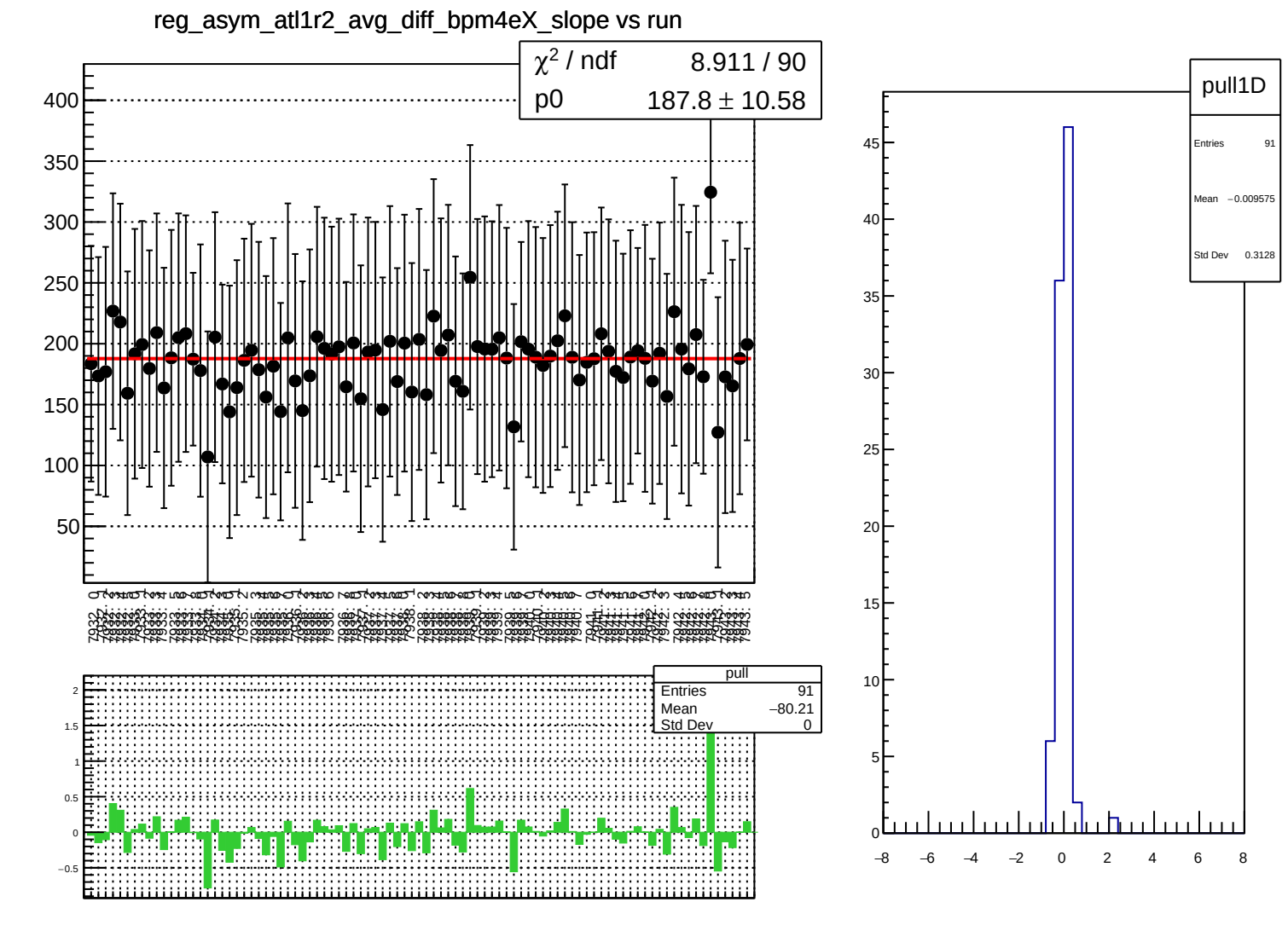

pull1D
Entries 91
Mean −0.006291
Std Dev 0.5453

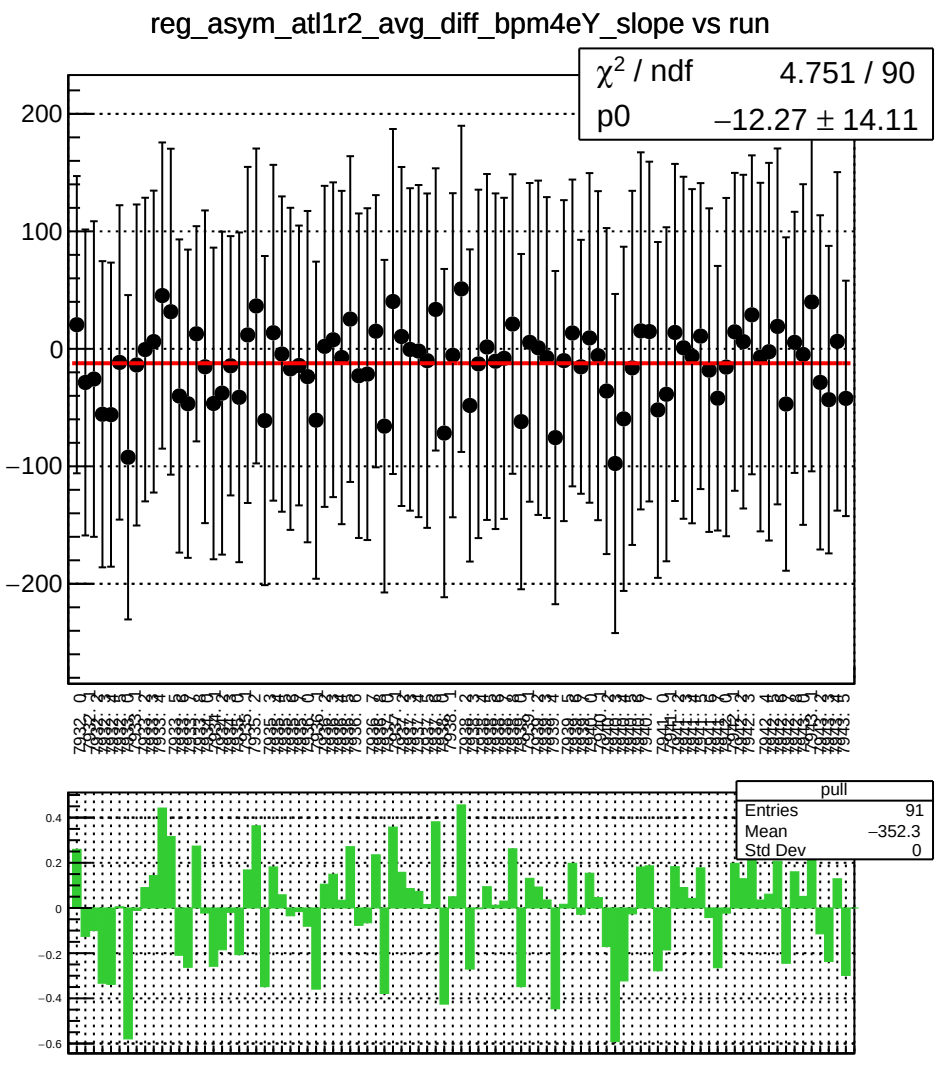

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 24.36 / 90
p0 −22.63 ± 0.1757
pull
Entries 91
Mean −111.9
Std Dev 0

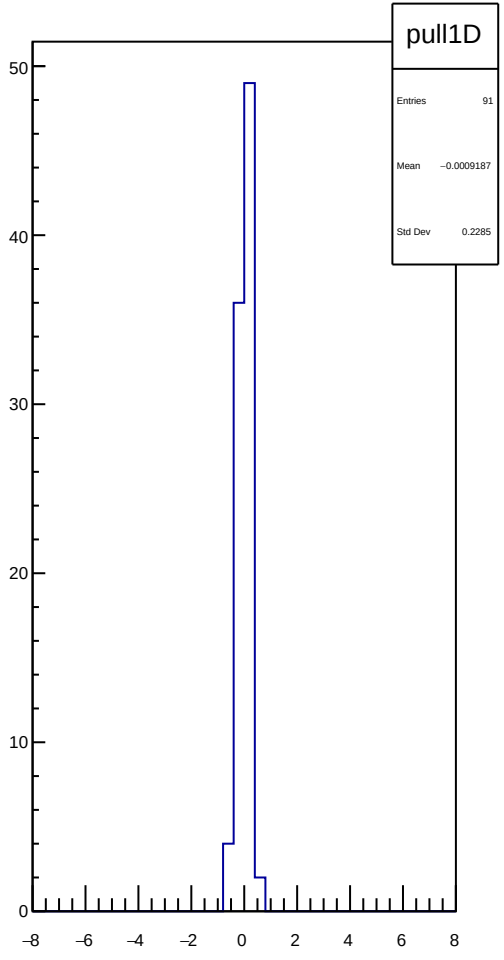

pull1D
Entries 91
Mean −0.007897
Std Dev 0.5173

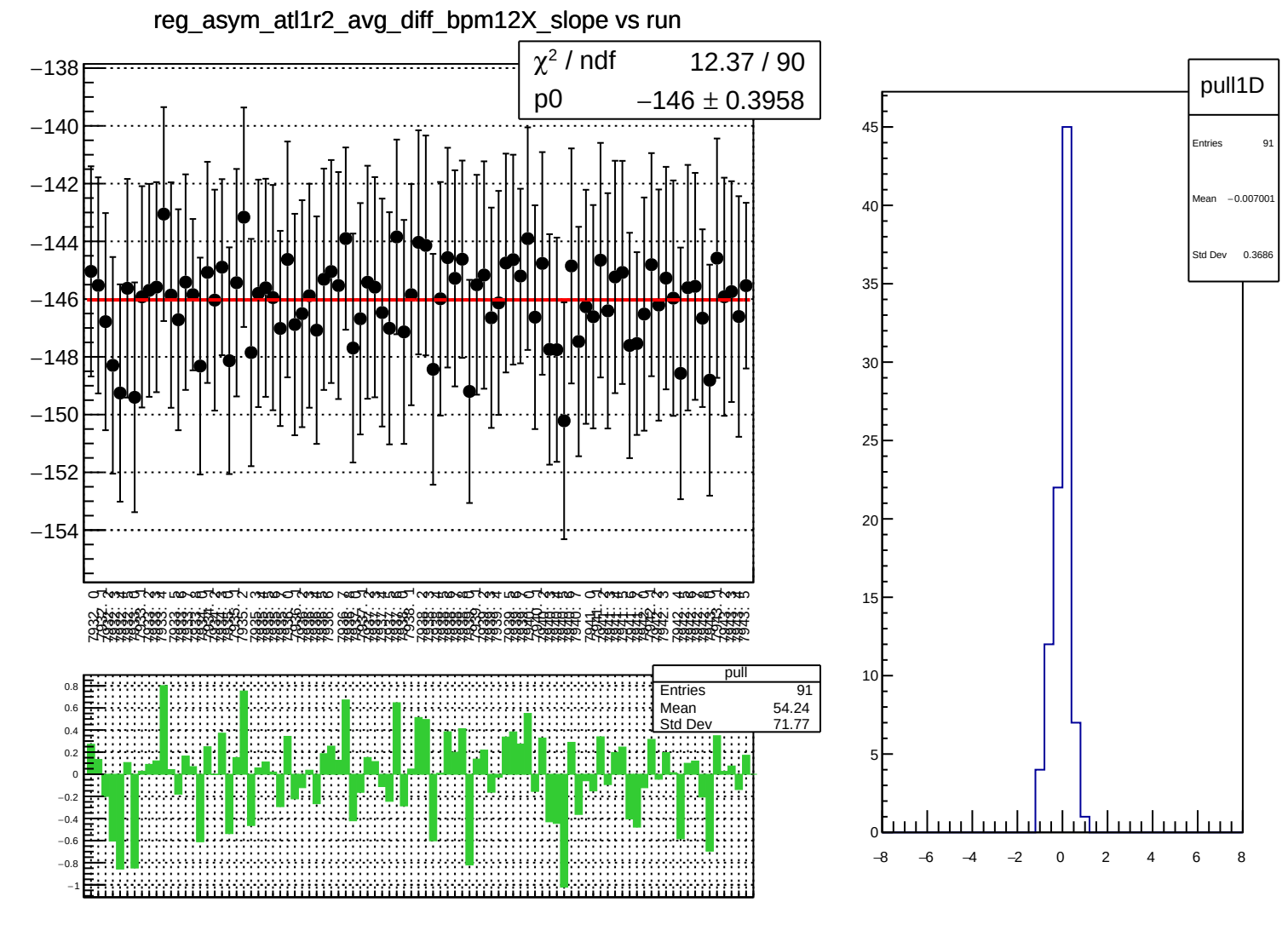

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.751 / 90
p0 −129.6 ± 11.76
pull
Entries 91
Mean −89.34
Std Dev 0
pull1D
Entries 91
Mean 0.008616
Std Dev 0.31

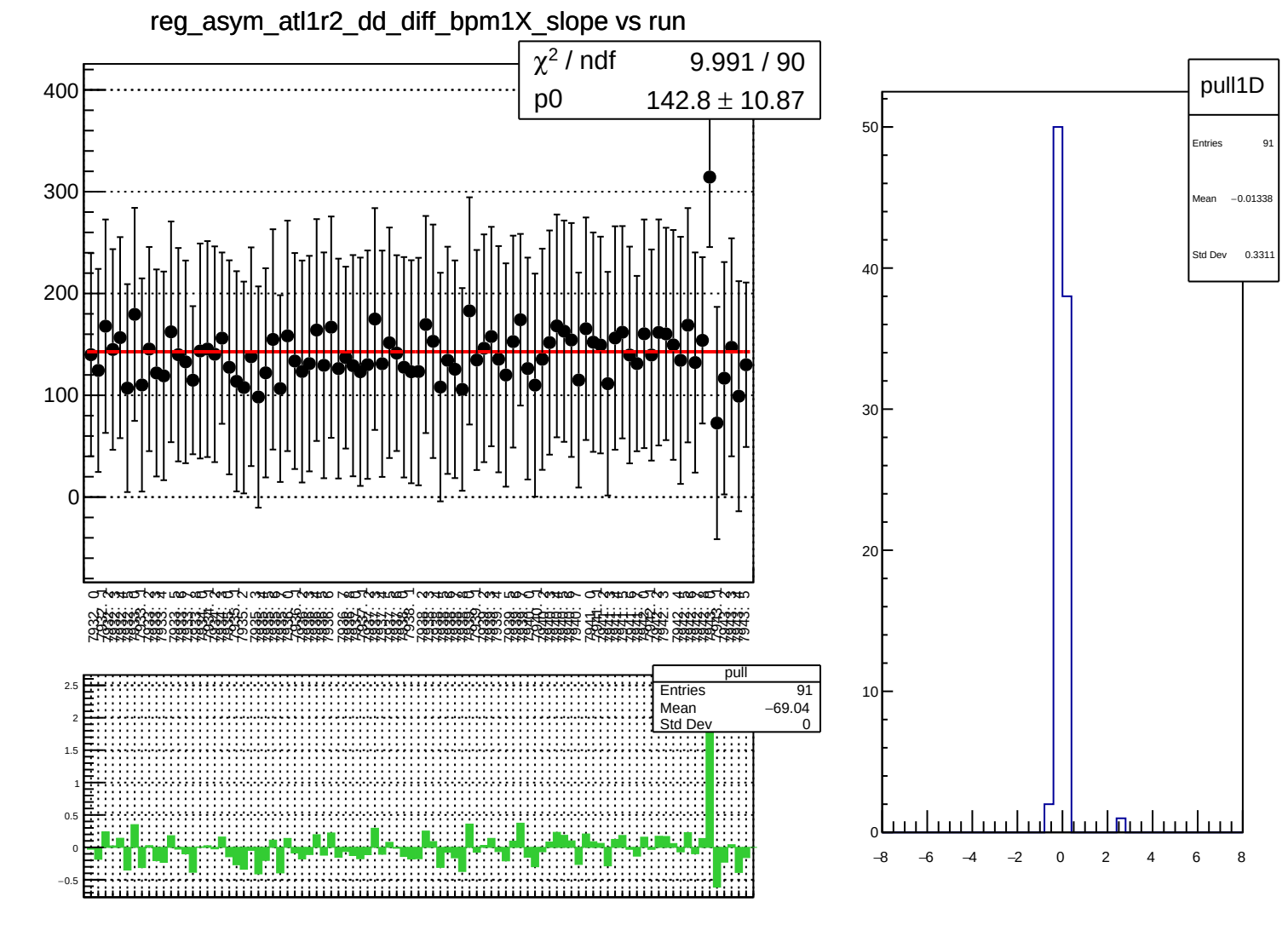

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.816 / 90
p0 59.31 ± 12.24
pull
Entries 91
Mean −315.5
Std Dev 0
pull1D
Entries 91
Mean 0.0008919
Std Dev 0.23

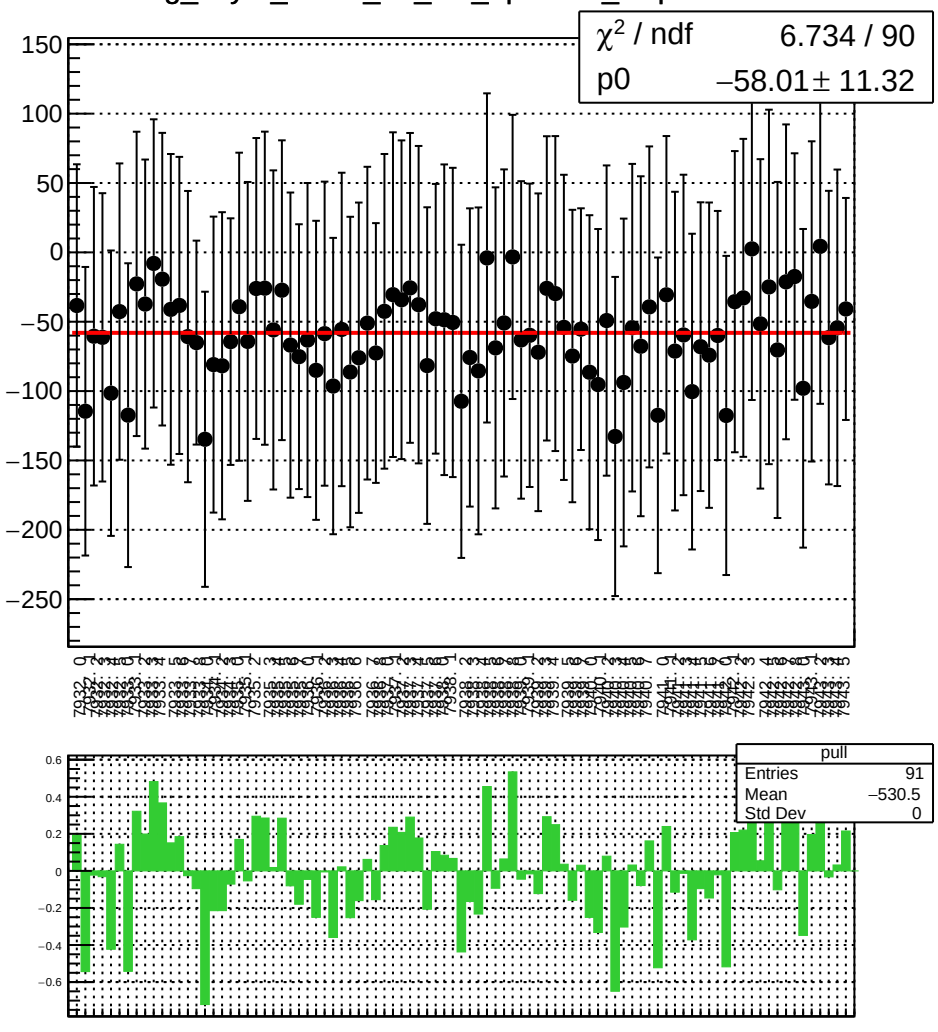

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.911 / 90
p0 187.8 ± 10.58
pull
Entries 91
Mean −80.21
Std Dev 0
pull1D
Entries 91
Mean −0.009575
Std Dev 0.3128

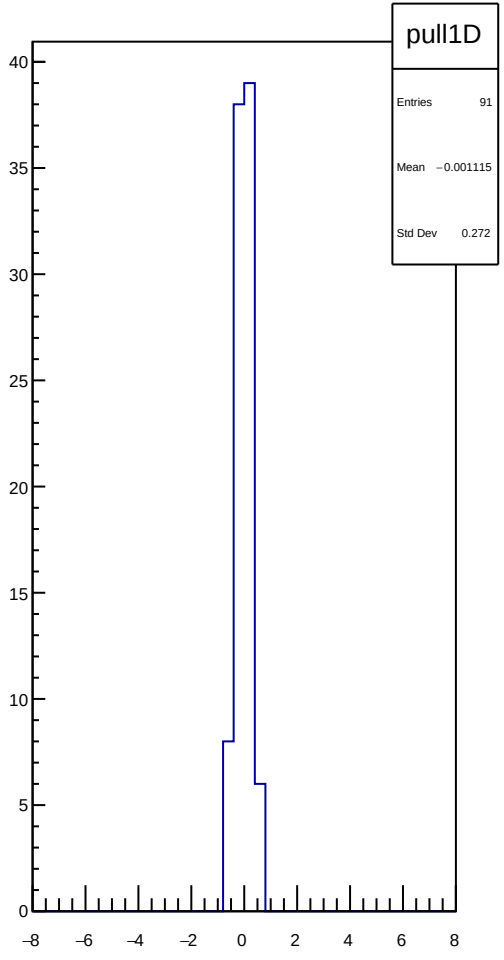

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.751 / 90
p0 −12.27 ± 14.11
200
100
0
−100
−200
pull
Entries 91
Mean −352.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

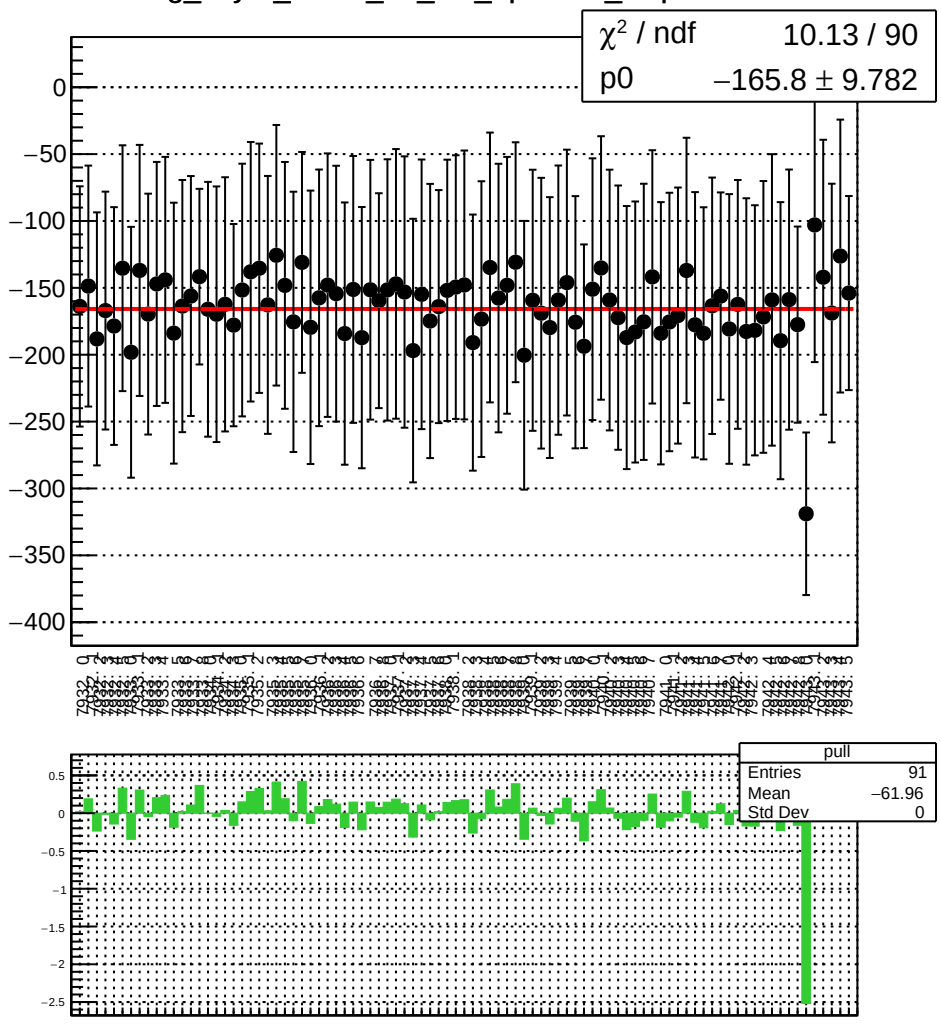

pull1D
Entries 91
Mean −0.0009187
Std Dev 0.2285
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

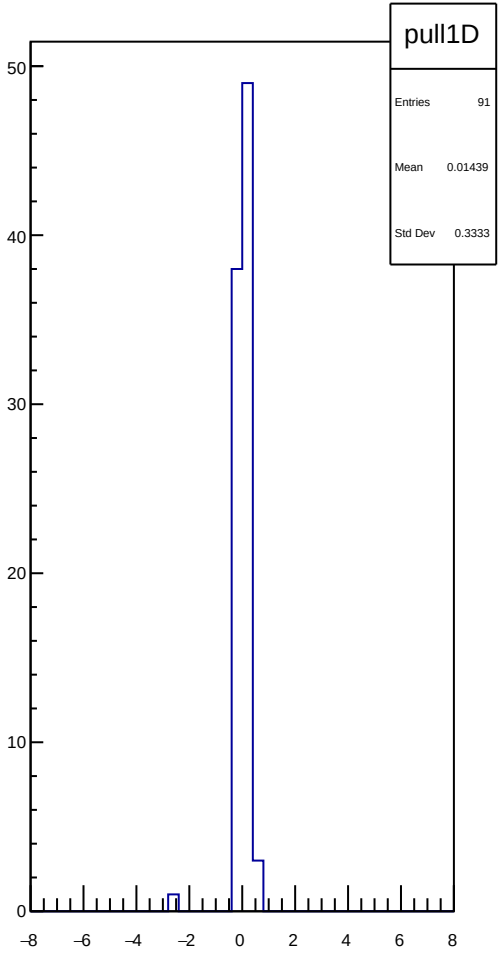

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.37 / 90
p0 −146 ± 0.3958
pull
Entries 91
Mean 54.24
Std Dev 71.77
pull1D
Entries 91
Mean −0.007001
Std Dev 0.3686

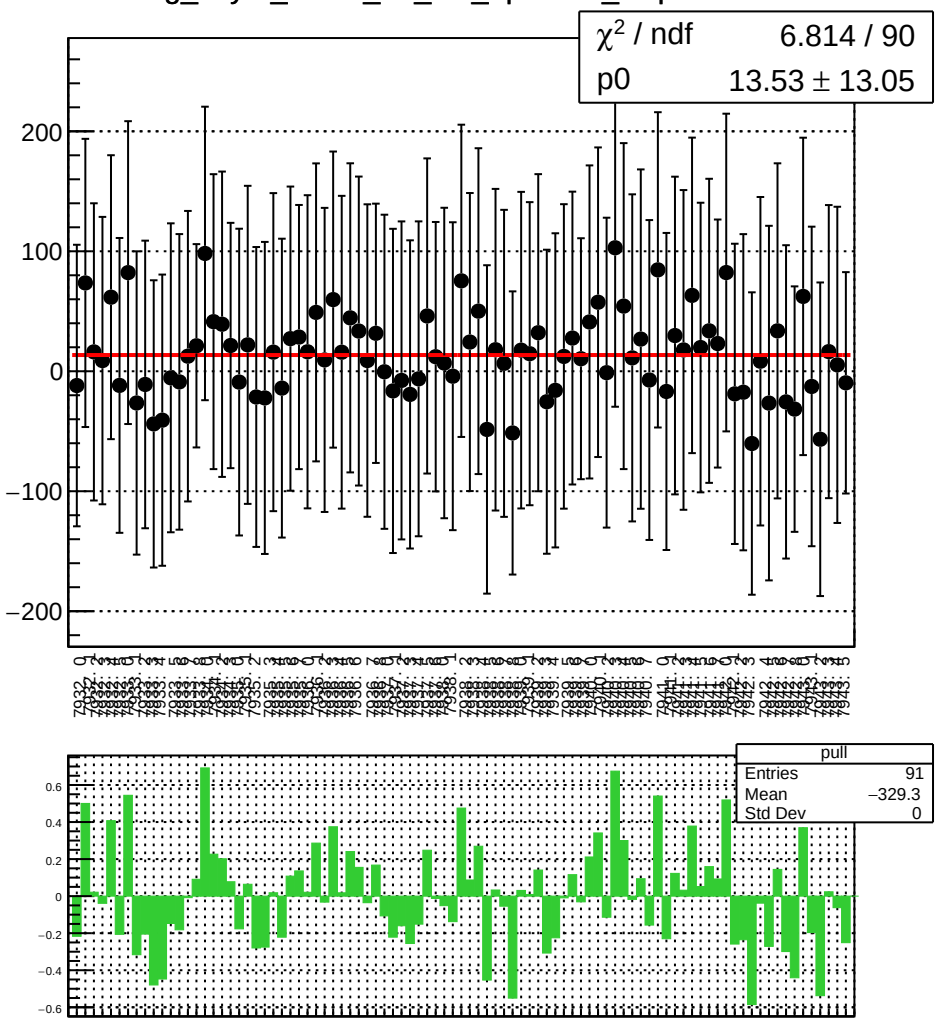

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.991 / 90
p0 142.8 ± 10.87
pull
Entries 91
Mean −69.04
Std Dev 0
pull1D
Entries 91
Mean −0.01338
Std Dev 0.3311

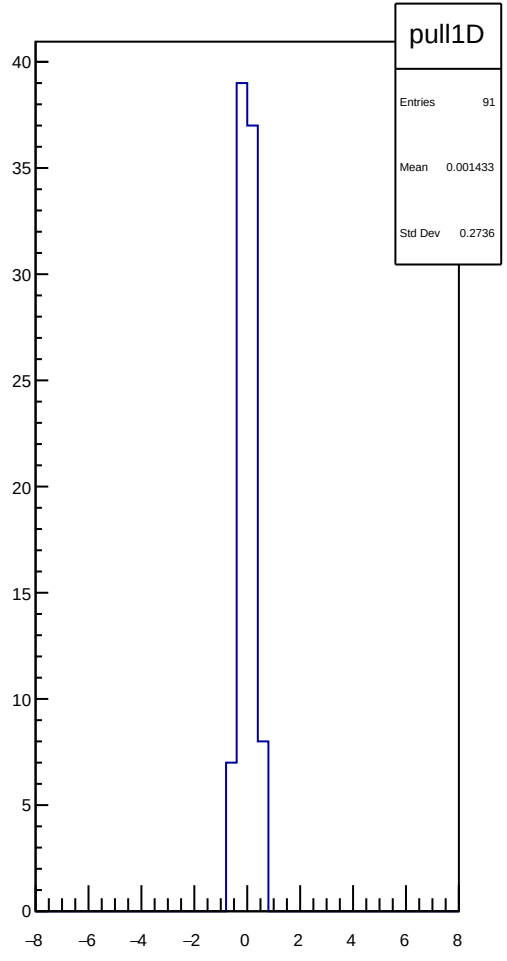

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.734 / 90
p0 −58.01± 11.32
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 91
Mean −530.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

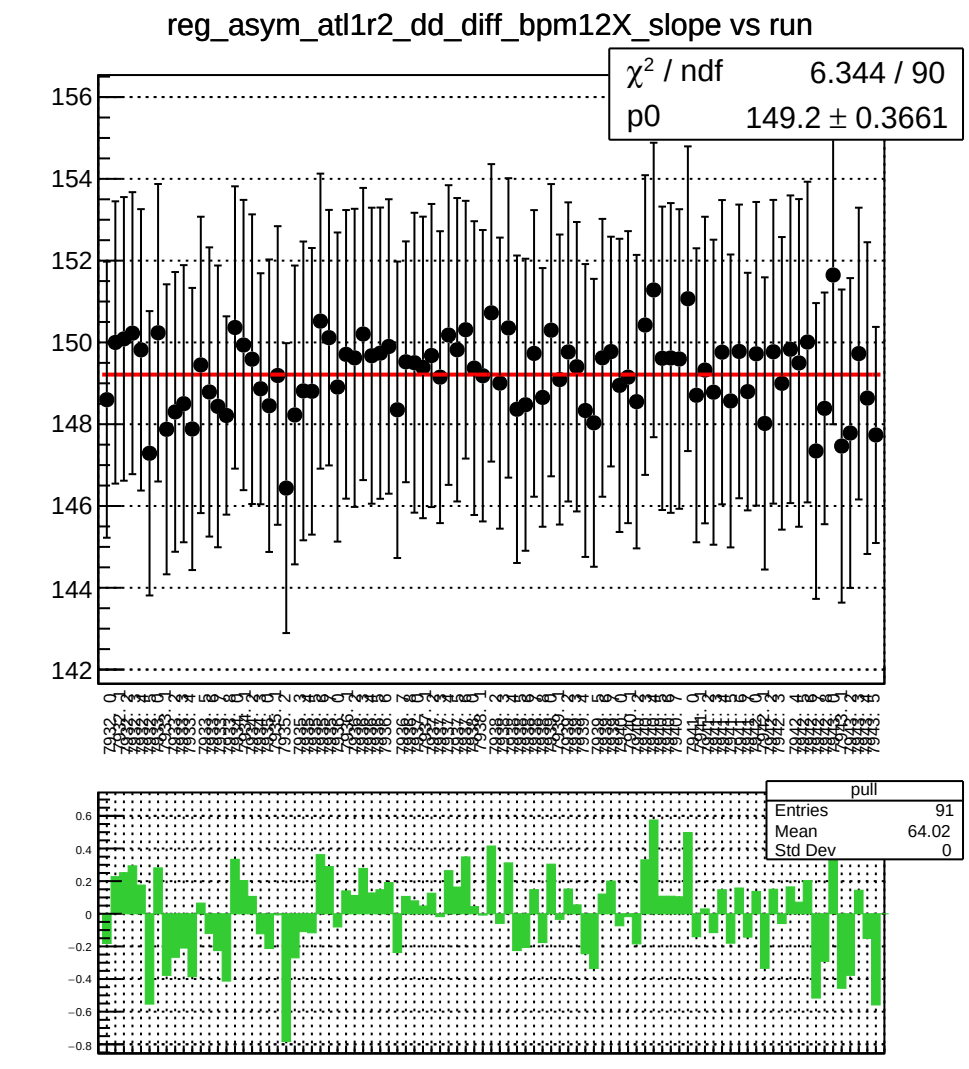

pull1D
Entries 91
Mean −0.001115
Std Dev 0.272
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

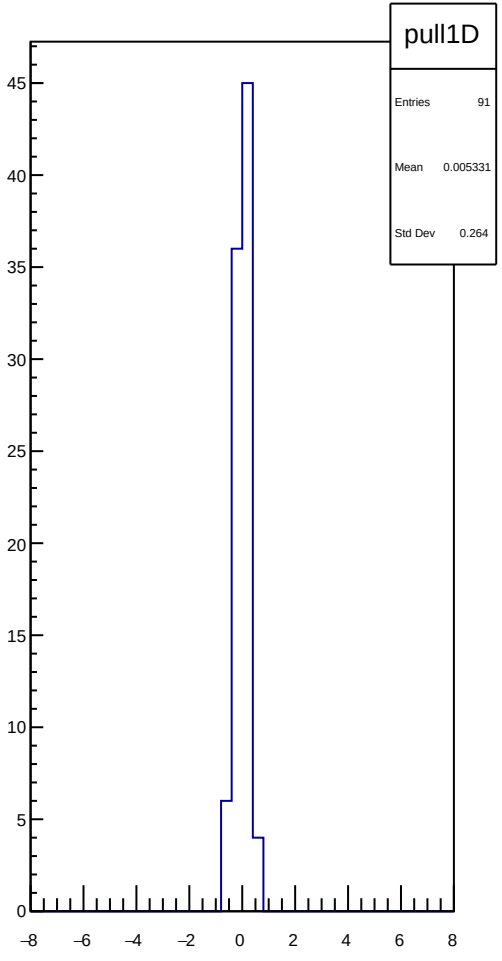

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.13 / 90
p0 −165.8 ± 9.782
pull
Entries 91
Mean −61.96
Std Dev 0

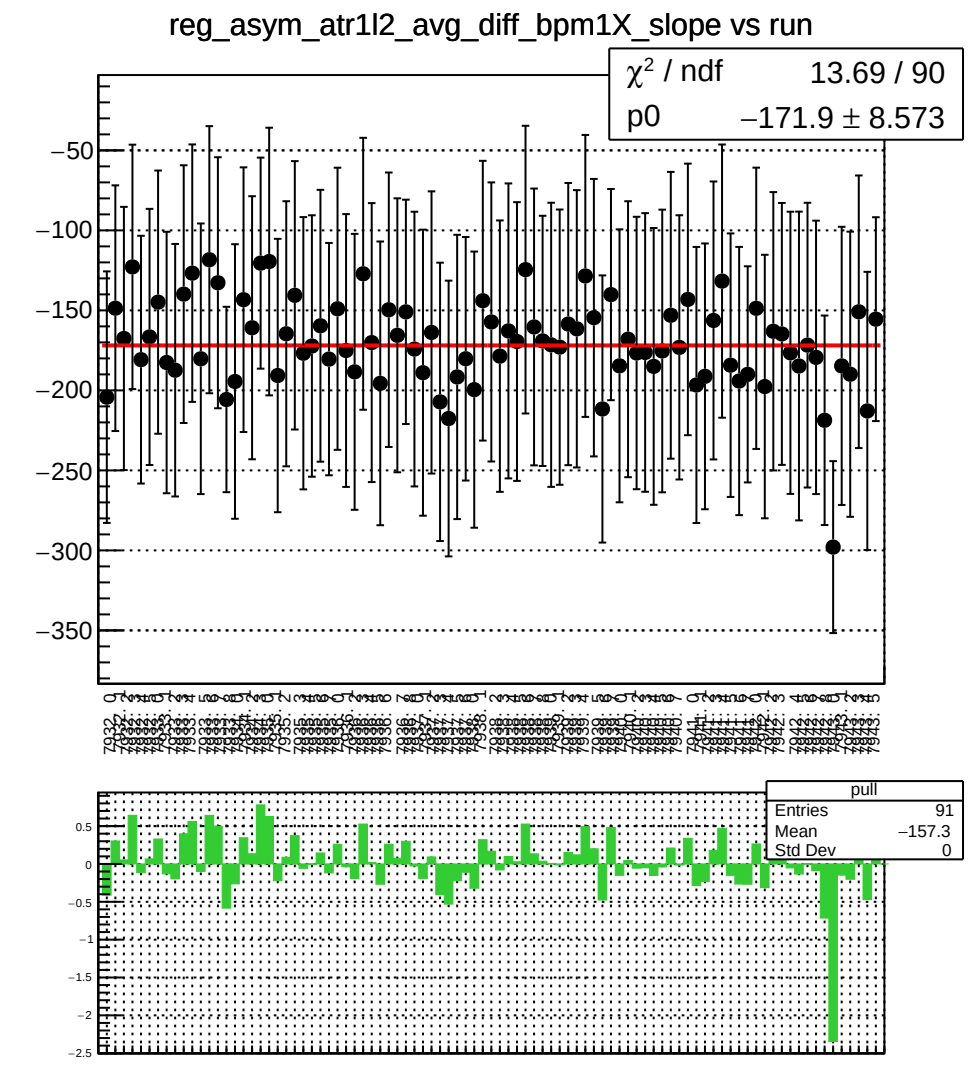

pull1D
Entries 91
Mean 0.01439
Std Dev 0.3333

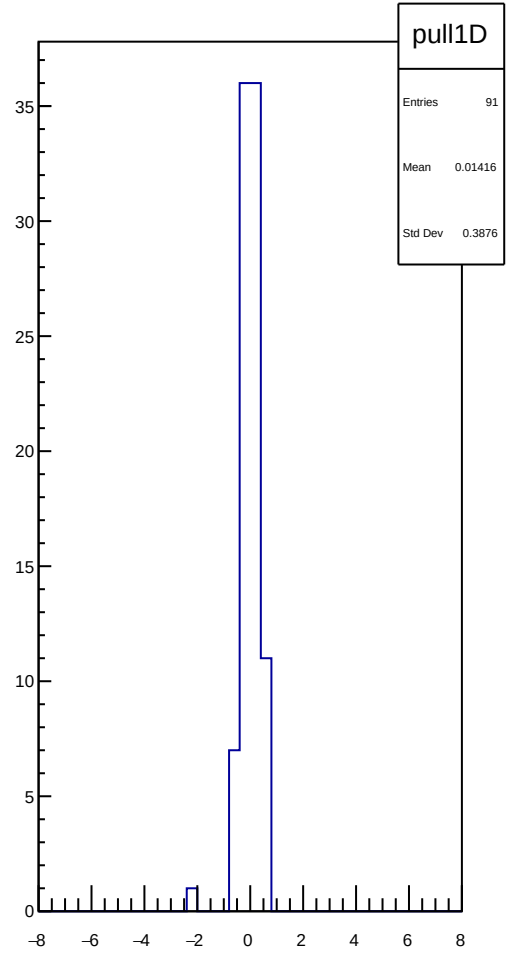

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.814 / 90
p0 13.53 ± 13.05
200
100
0
−100
−200
pull
Entries 91
Mean −329.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

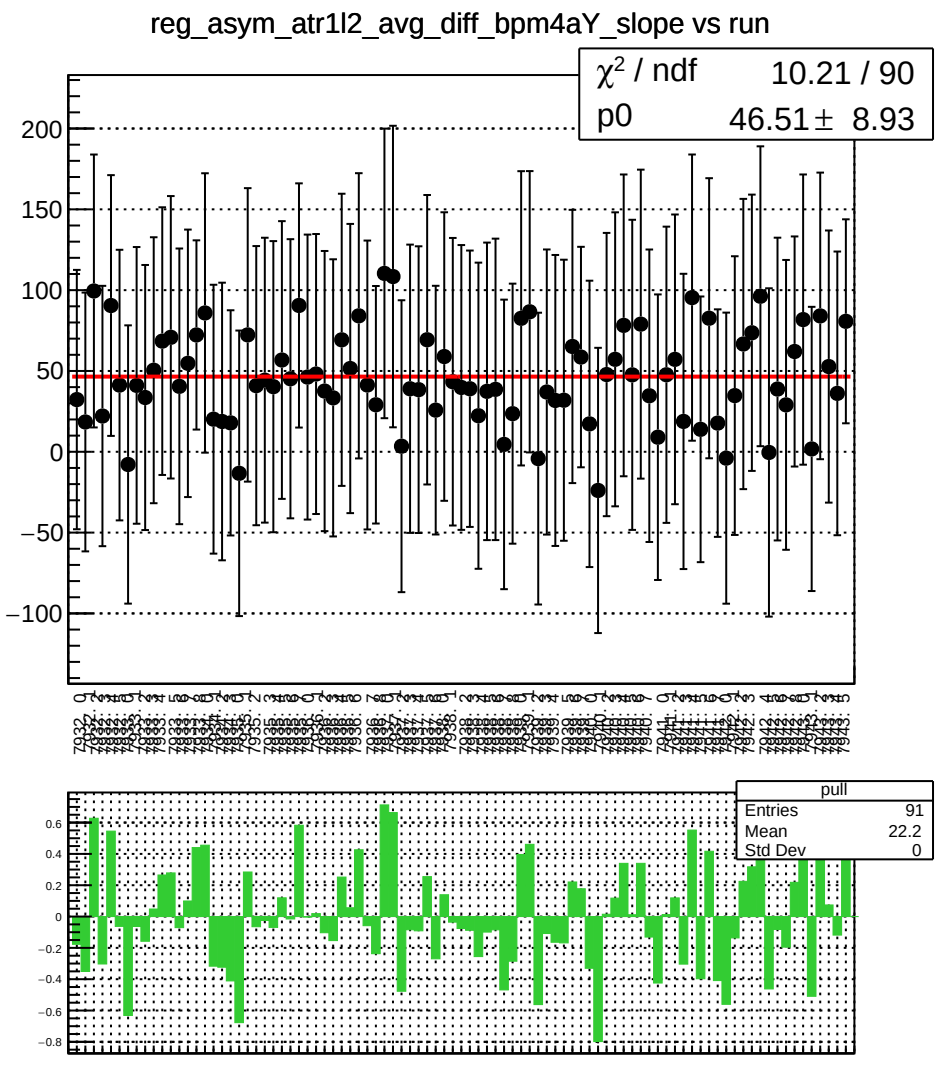

pull1D
Entries 91
Mean 0.001433
Std Dev 0.2736
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

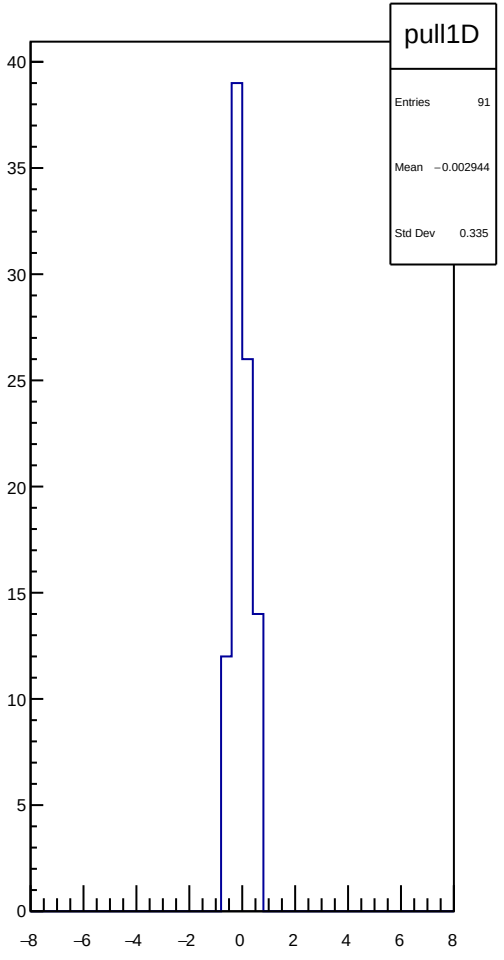

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 6.344 / 90
p0 149.2 ± 0.3661
pull
Entries 91
Mean 64.02
Std Dev 0

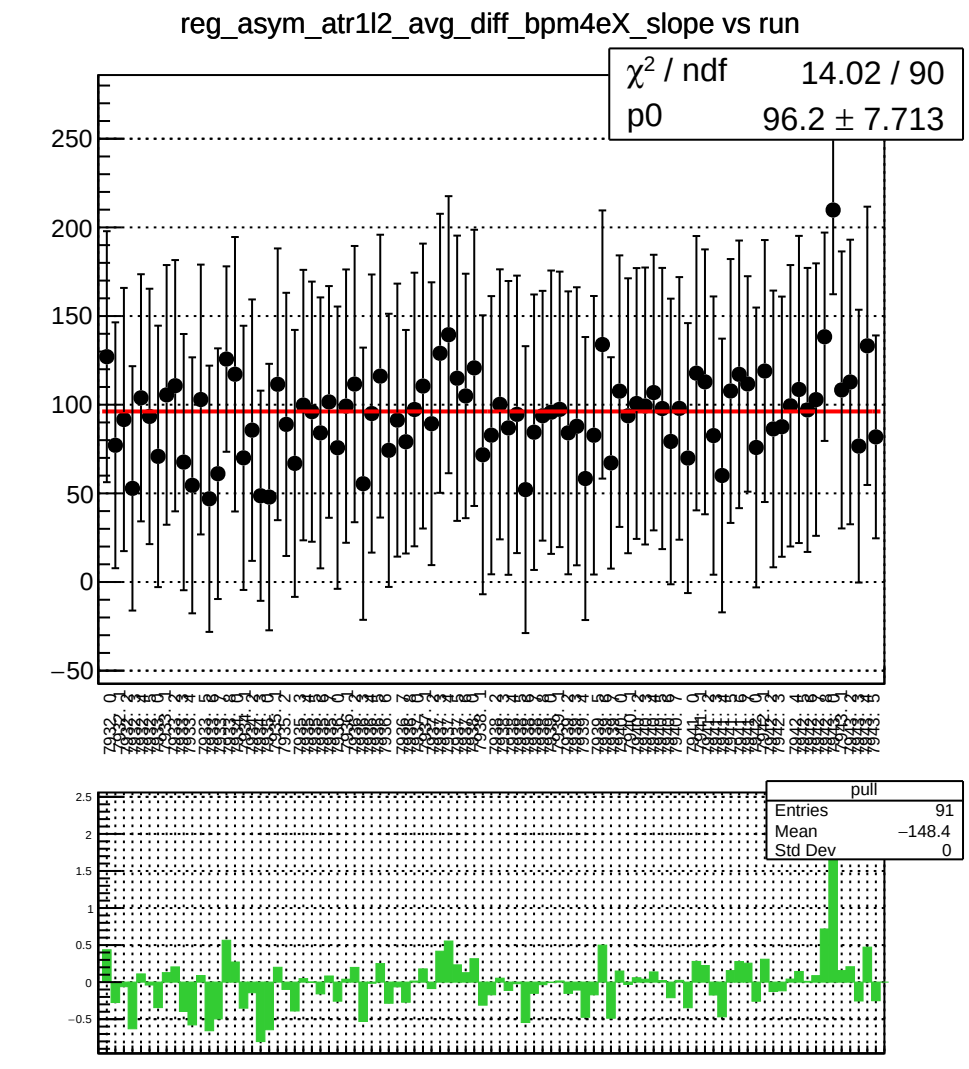

pull1D
Entries 91
Mean 0.005331
Std Dev 0.264

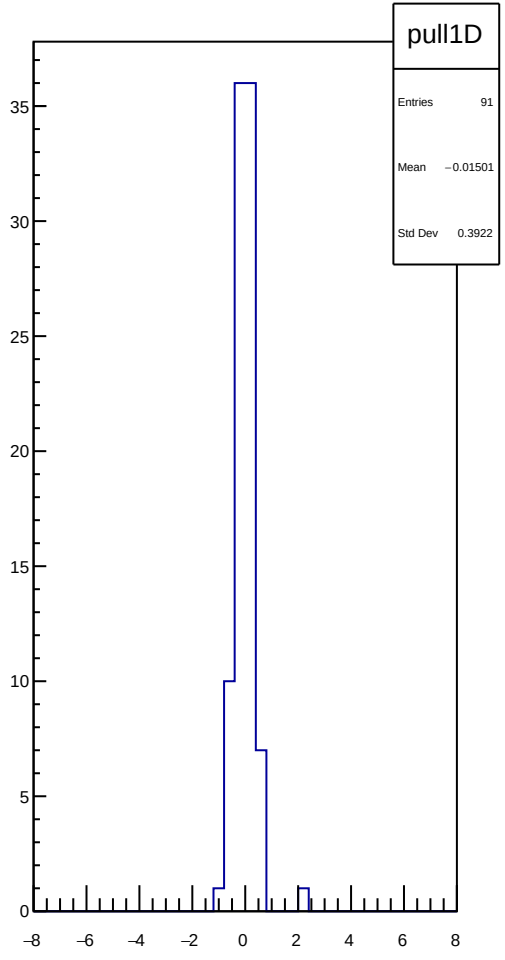

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 13.69 / 90
p0 −171.9 ± 8.573
−50
−100
−150
−200
−250
−300
−350
pull
Entries 91
Mean −157.3
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5

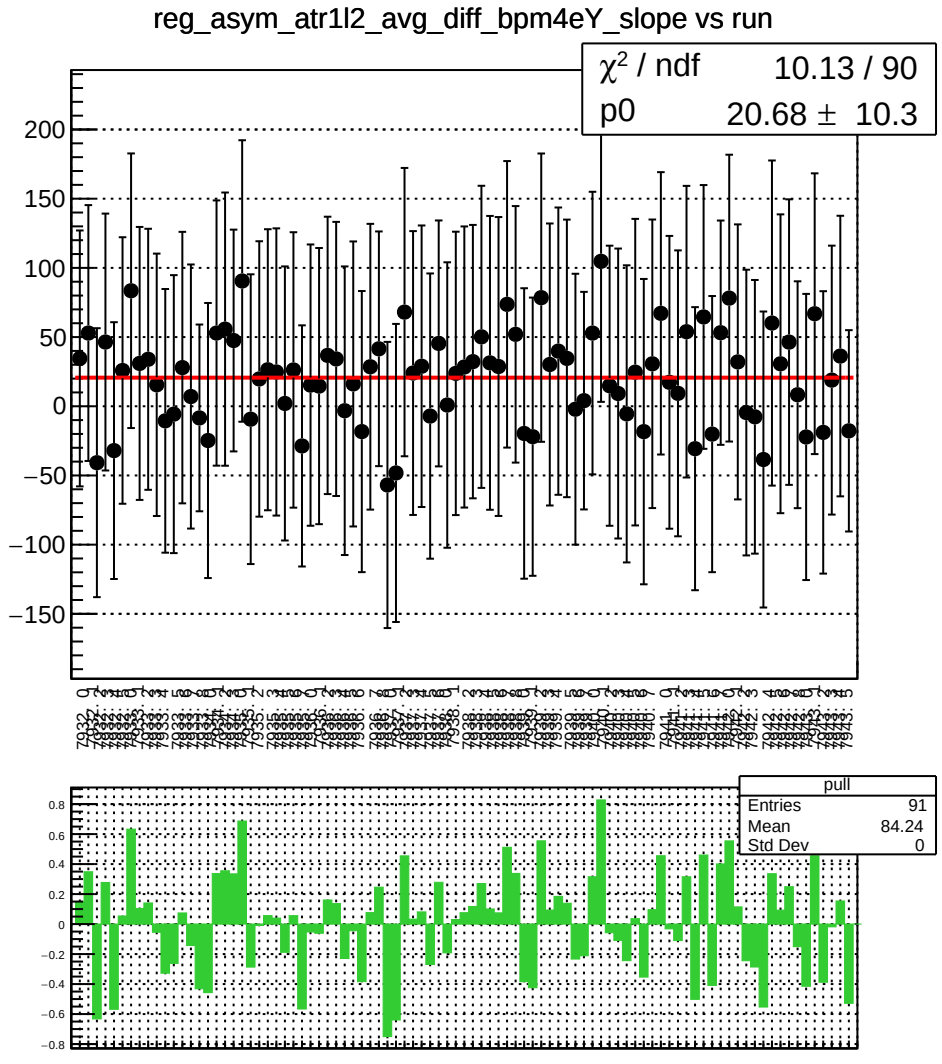

pull1D
Entries 91
Mean 0.01416
Std Dev 0.3876
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

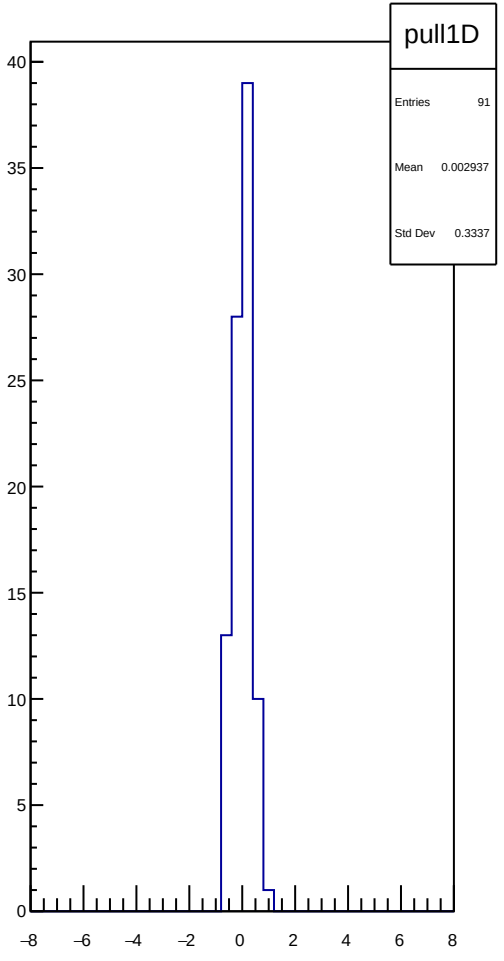

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.21 / 90
p0 46.51 ± 8.93
200
150
100
50
0
−50
−100
pull
Entries 91
Mean 22.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

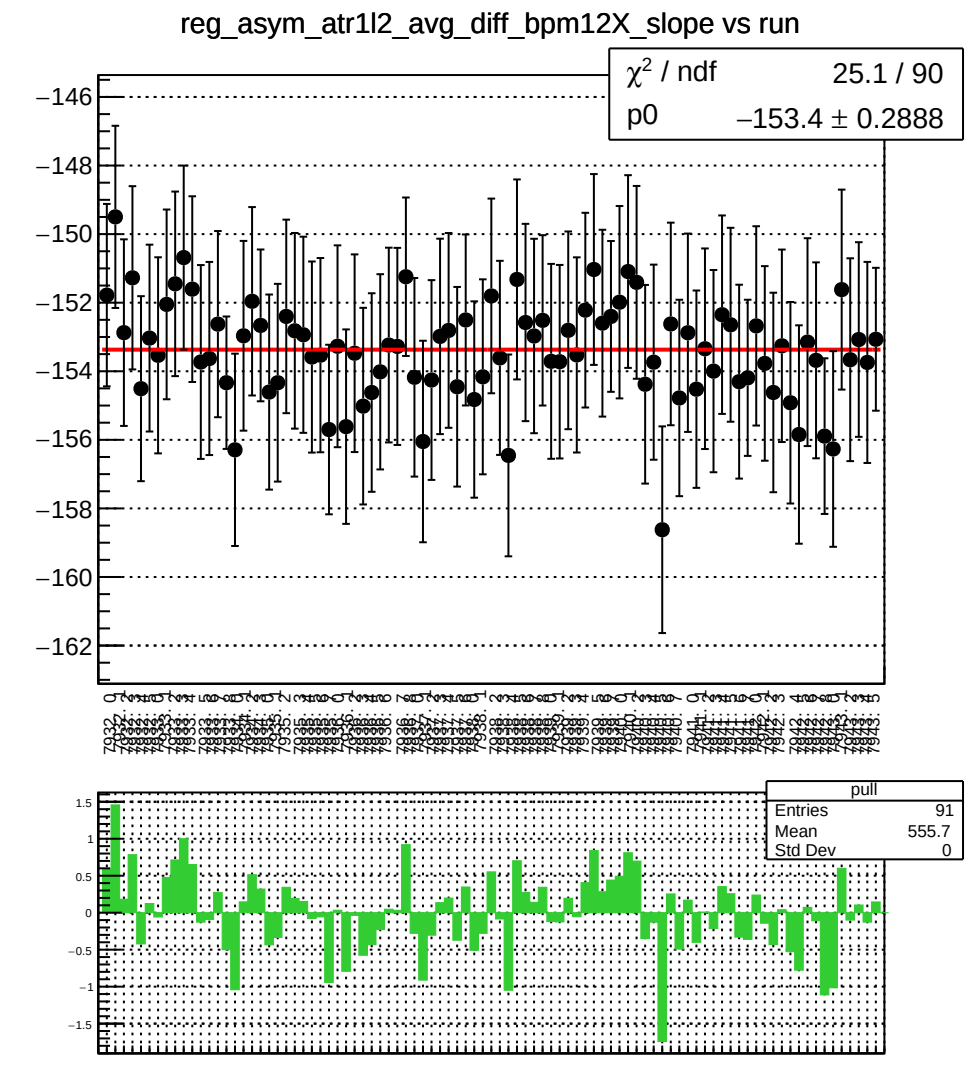

pull1D
Entries 91
Mean −0.002944
Std Dev 0.335
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

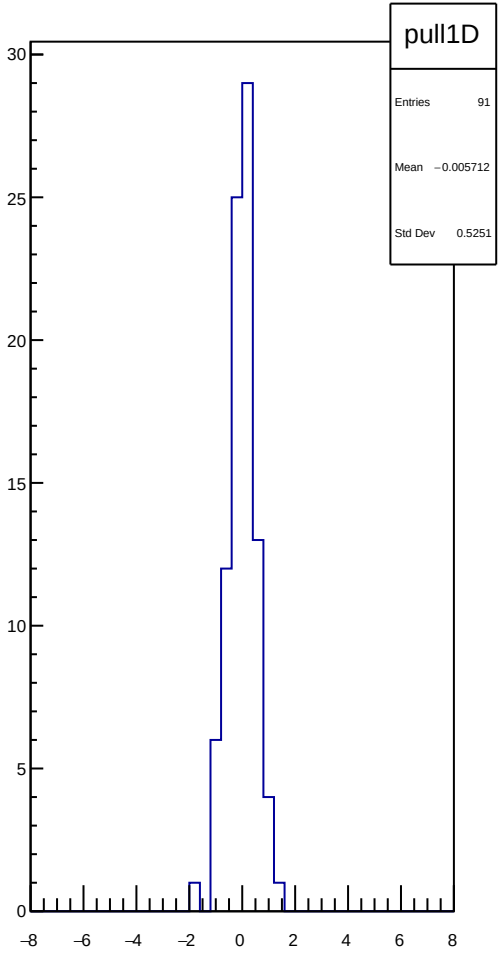

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.02 / 90
p0 96.2 ± 7.713
250
200
150
100
50
0
−50
pull
Entries 91
Mean −148.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5

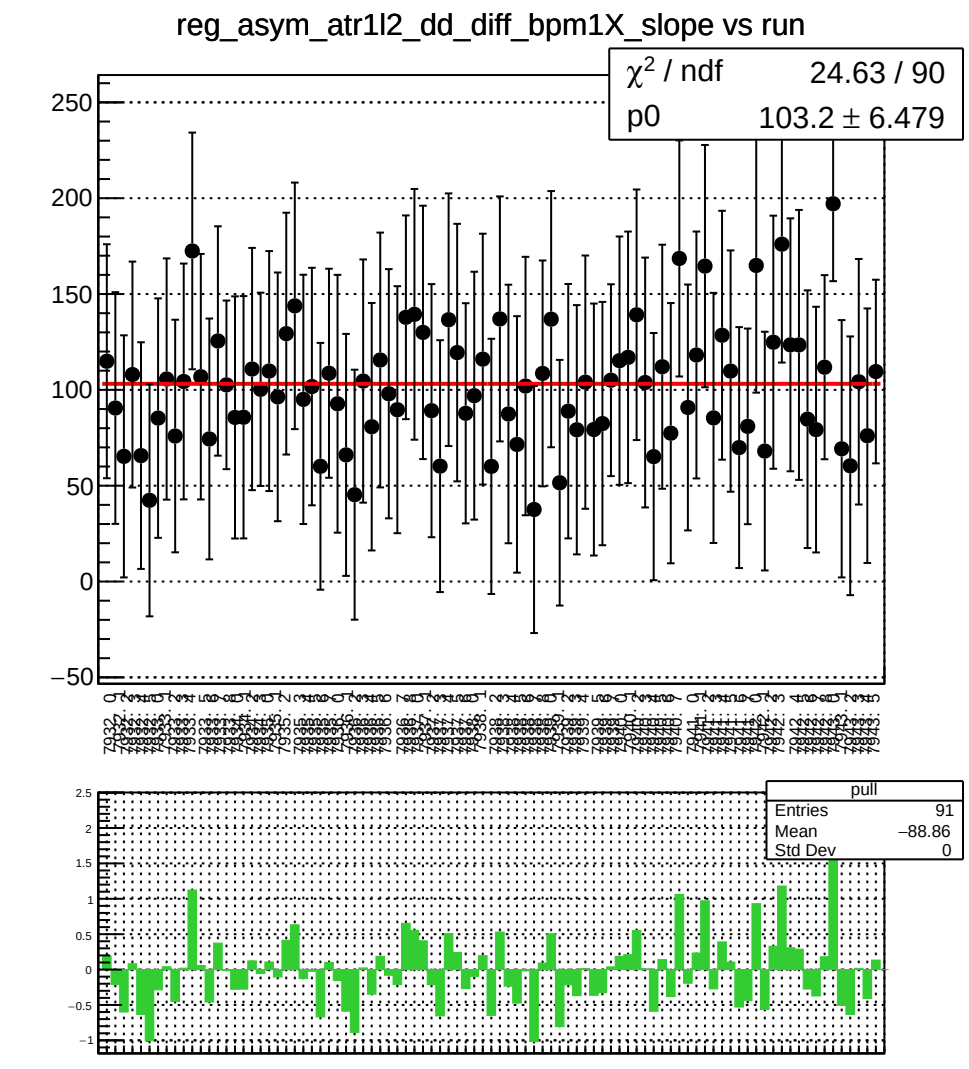

pull1D
Entries 91
Mean −0.01501
Std Dev 0.3922
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

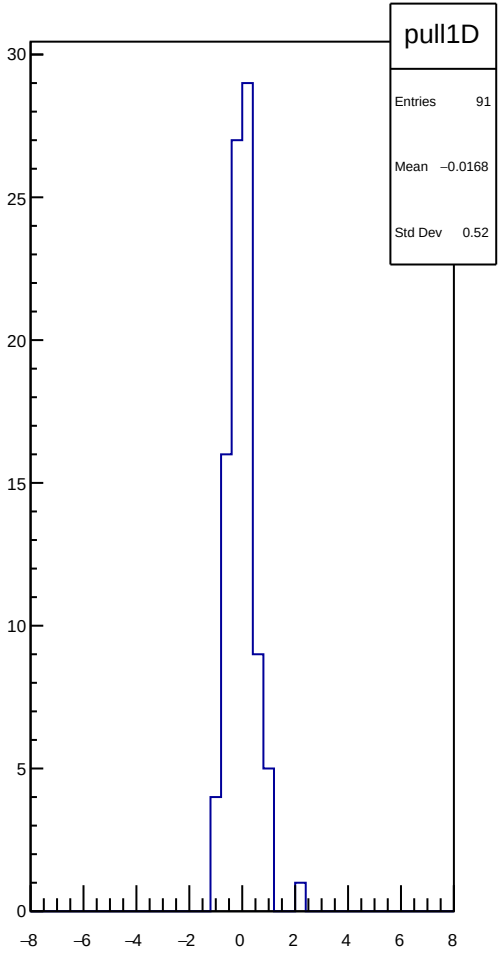

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.13 / 90
p0 20.68 ± 10.3
pull
Entries 91
Mean 84.24
Std Dev 0

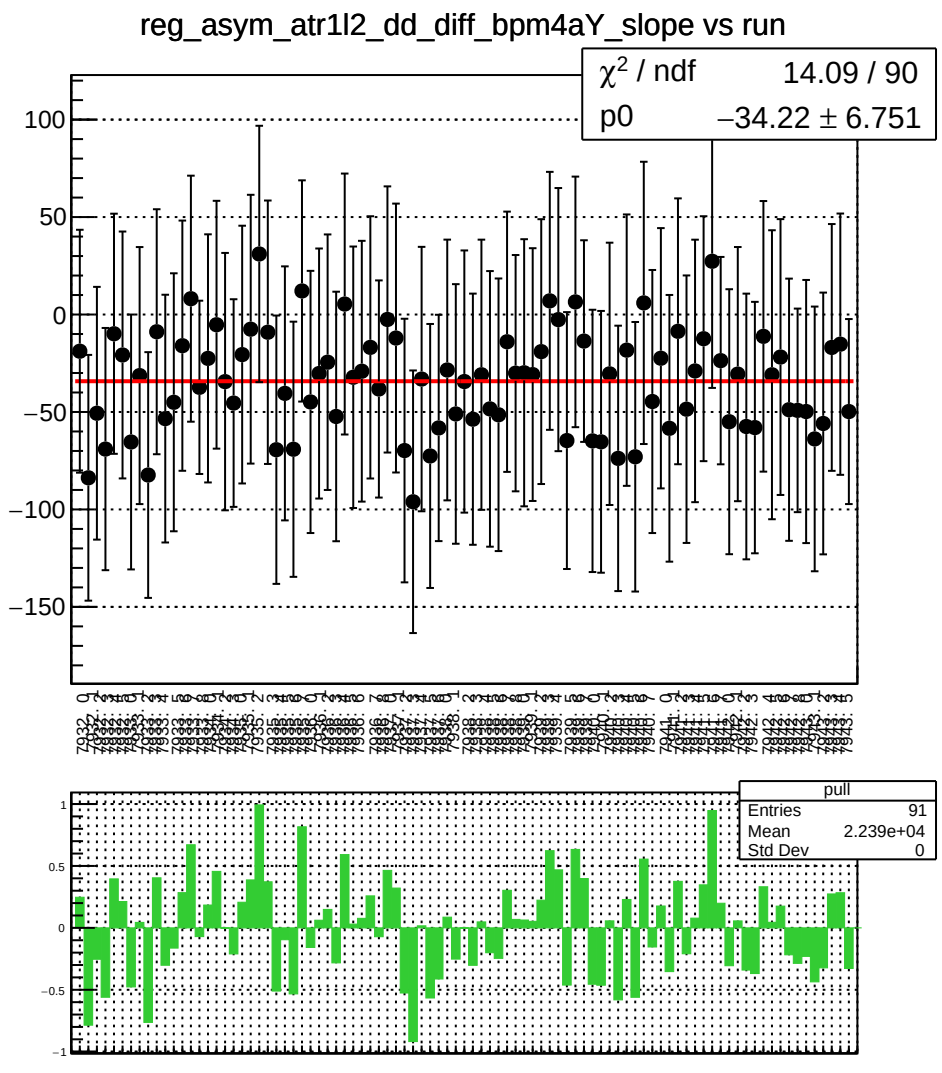

pull1D
Entries 91
Mean 0.002937
Std Dev 0.3337

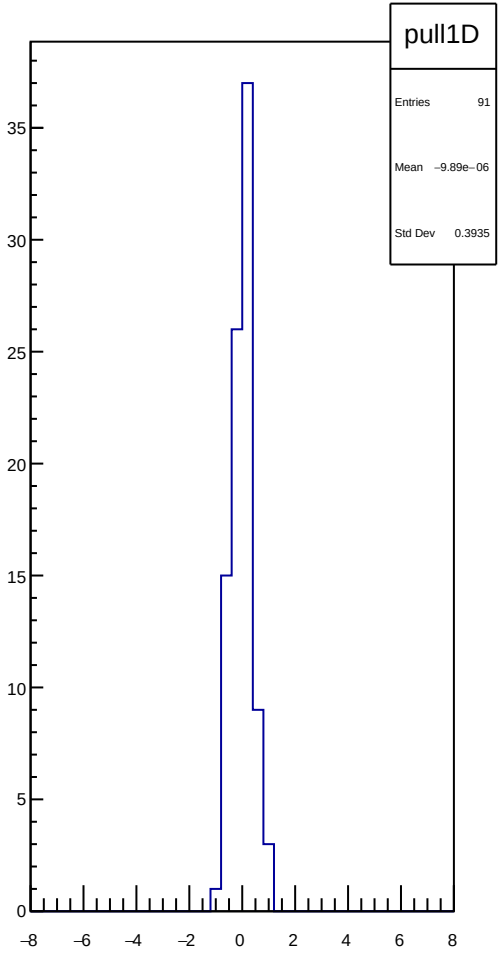

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.1 / 90
p0 −153.4 ± 0.2888
pull
Entries 91
Mean 555.7
Std Dev 0

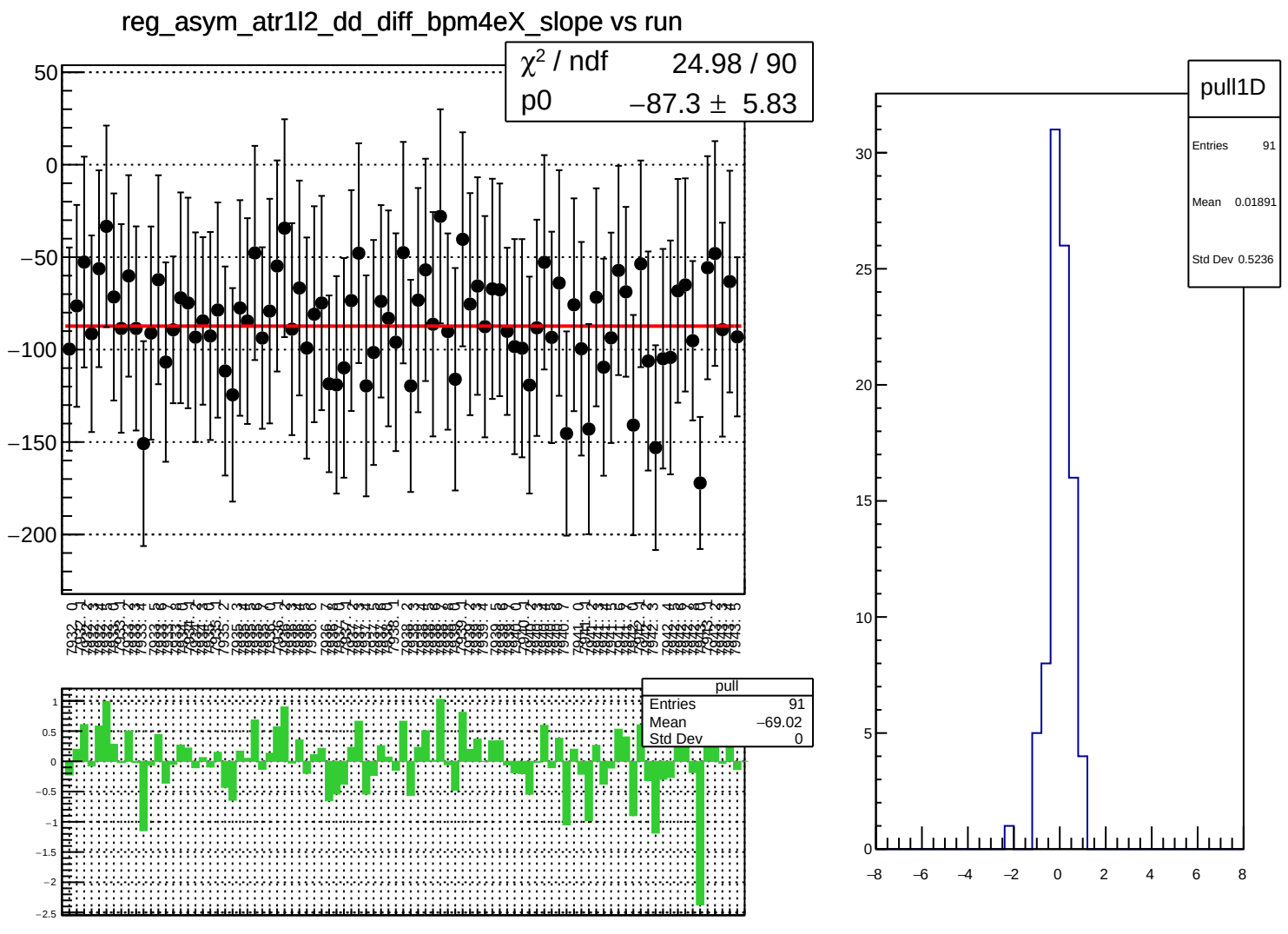

pull1D
Entries 91
Mean −0.005712
Std Dev 0.5251

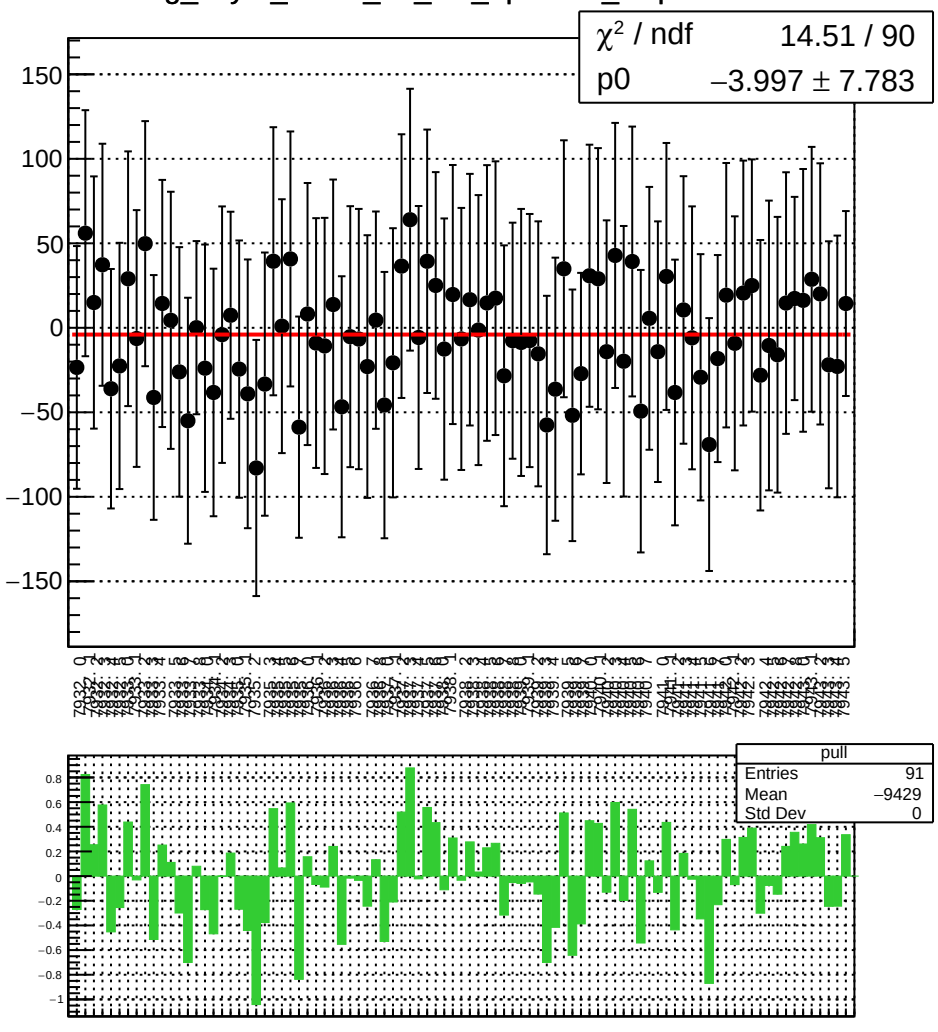

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 24.63 / 90
p0 103.2 ± 6.479
pull
Entries 91
Mean −88.86
Std Dev 0

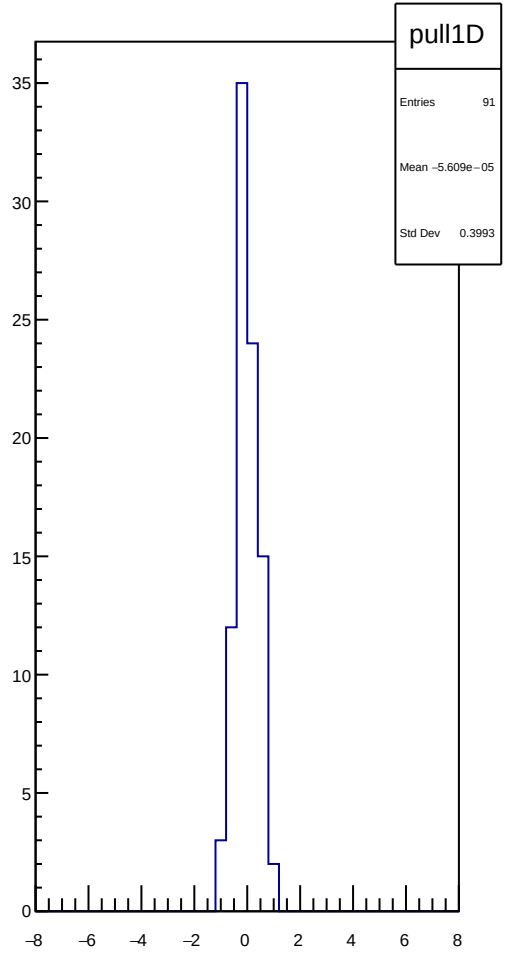

pull1D
Entries 91
Mean −0.0168
Std Dev 0.52

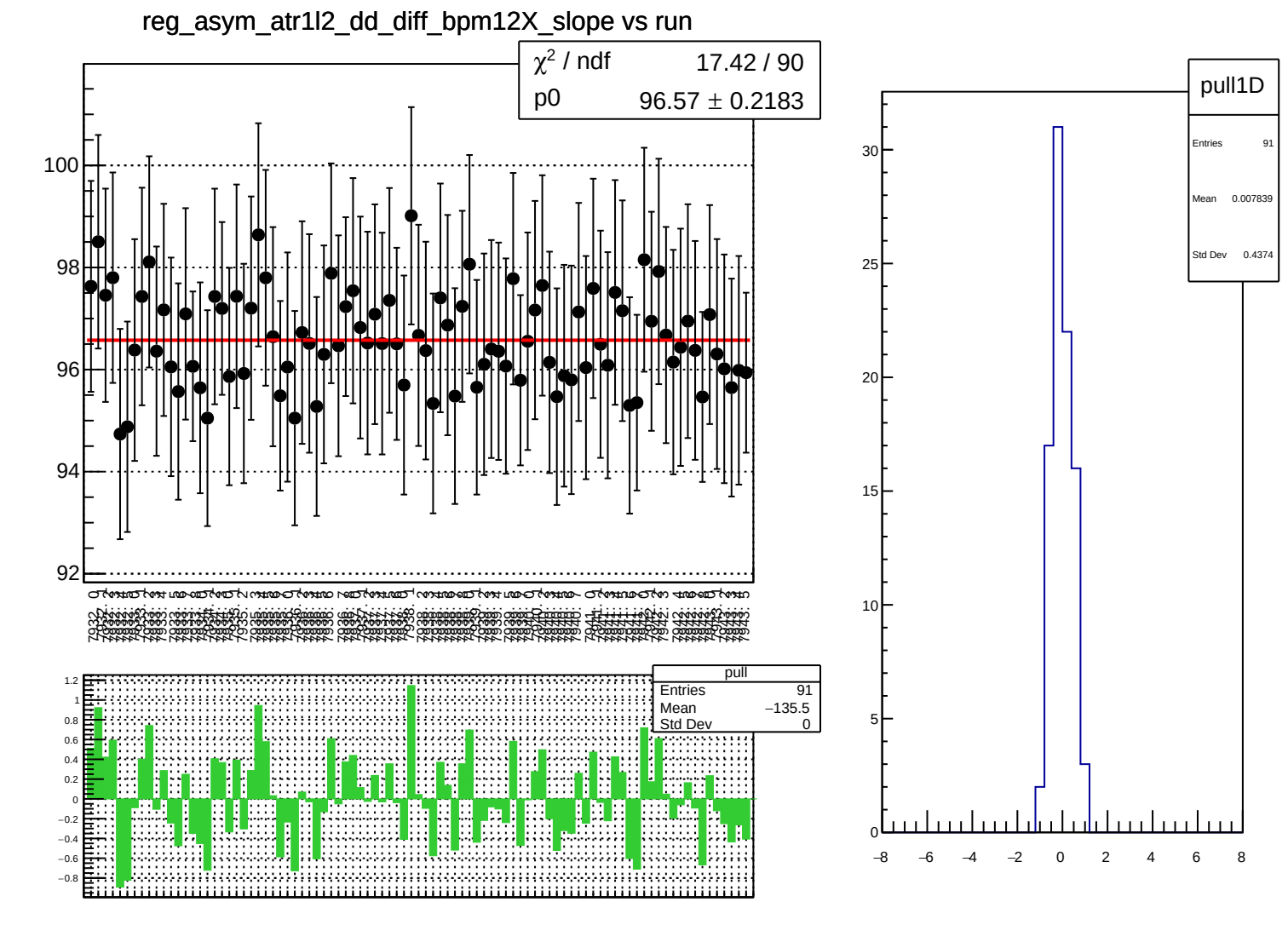

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.09 / 90
p0 −34.22 ± 6.751
pull
Entries 91
Mean 2.239e+04
Std Dev 0

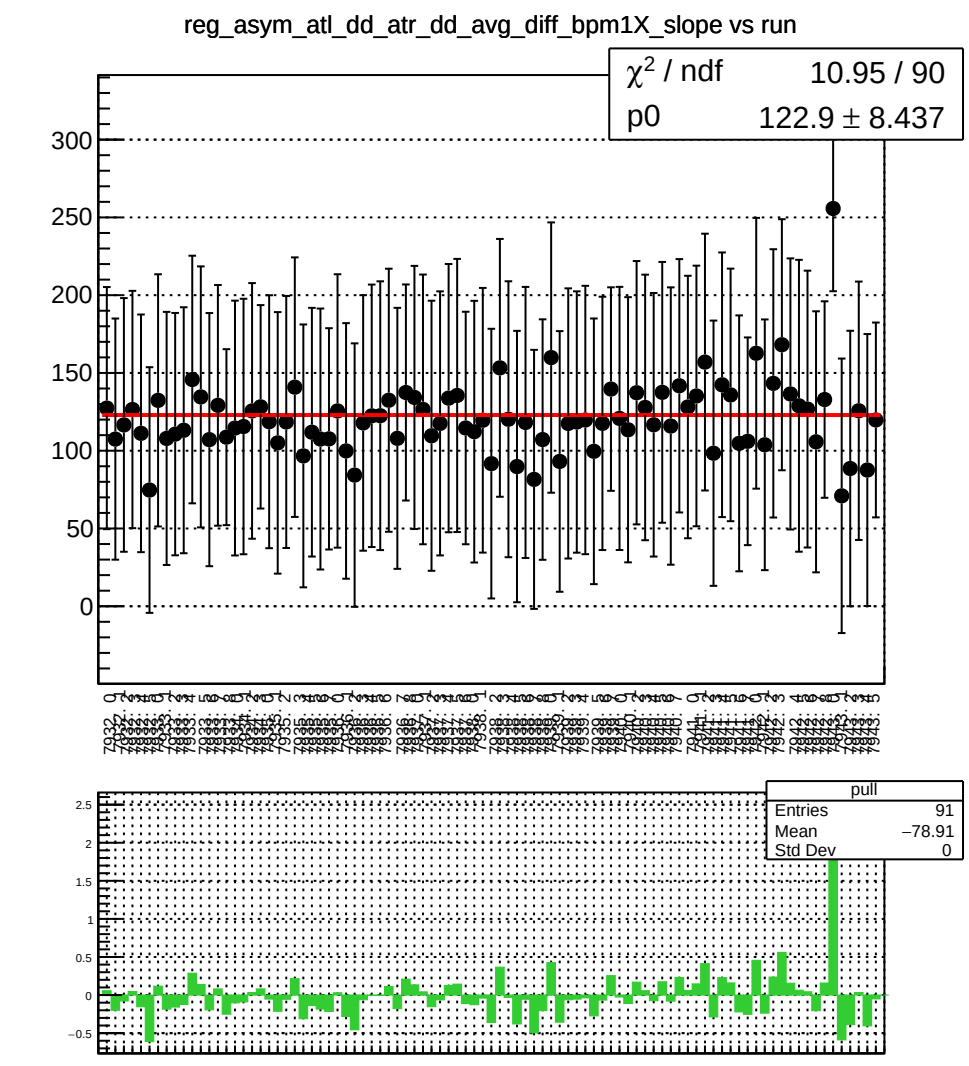

pull1D
Entries 91
Mean −9.89e−06
Std Dev 0.3935

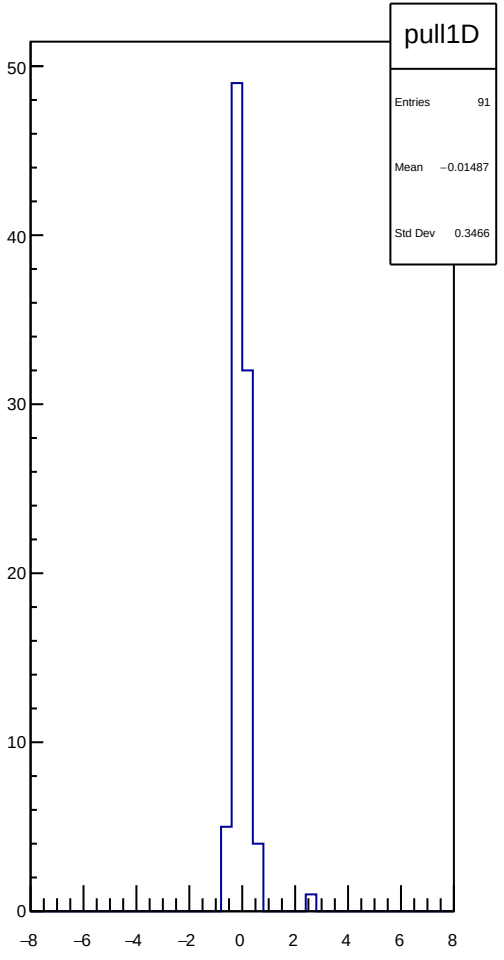

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.98 / 90
p0 −87.3 ± 5.83
pull
Entries 91
Mean −69.02
Std Dev 0
pull1D
Entries 91
Mean 0.01891
Std Dev 0.5236

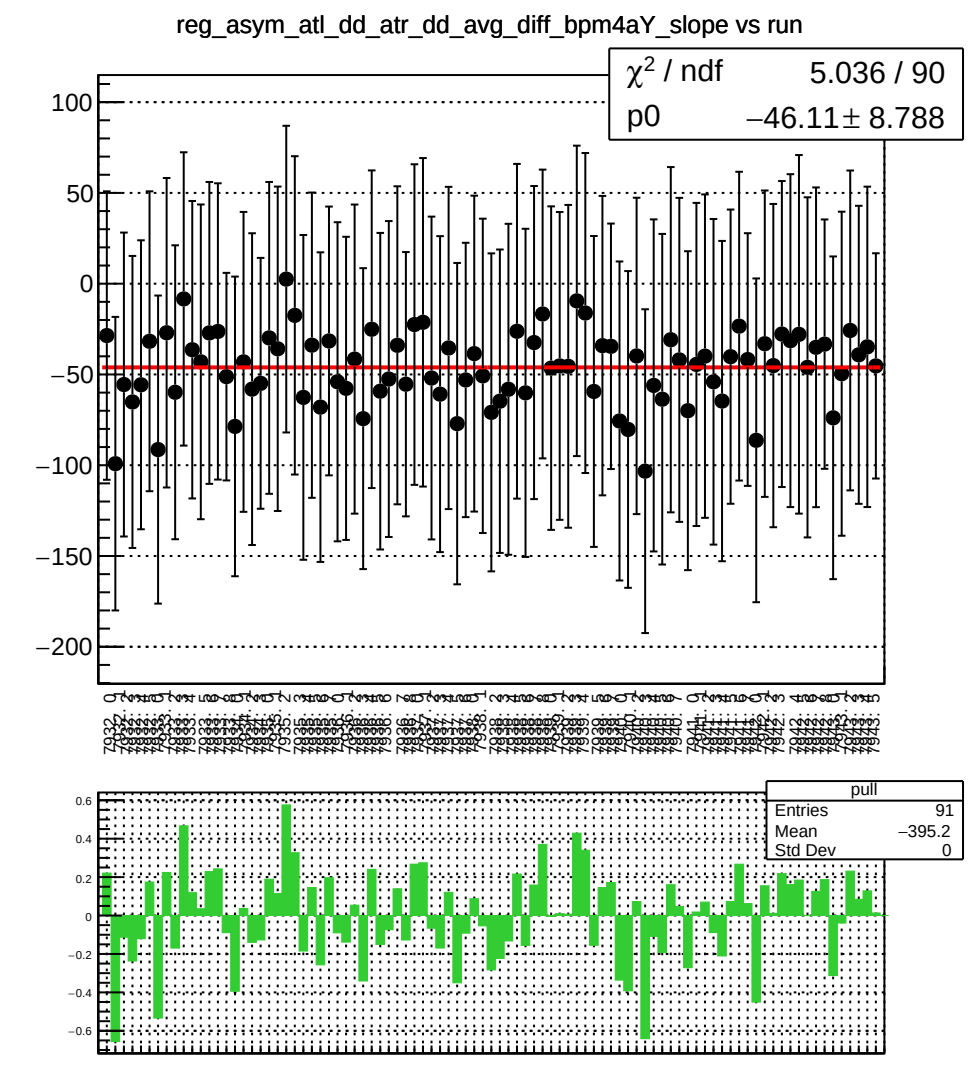

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.51 / 90
p0 −3.997 ± 7.783
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −9429
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

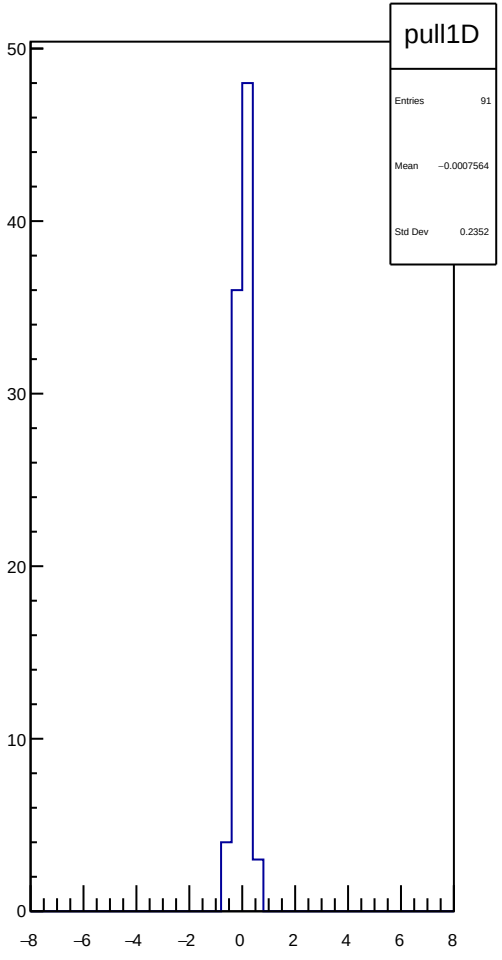

pull1D
Entries 91
Mean −5.609e−05
Std Dev 0.3993
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

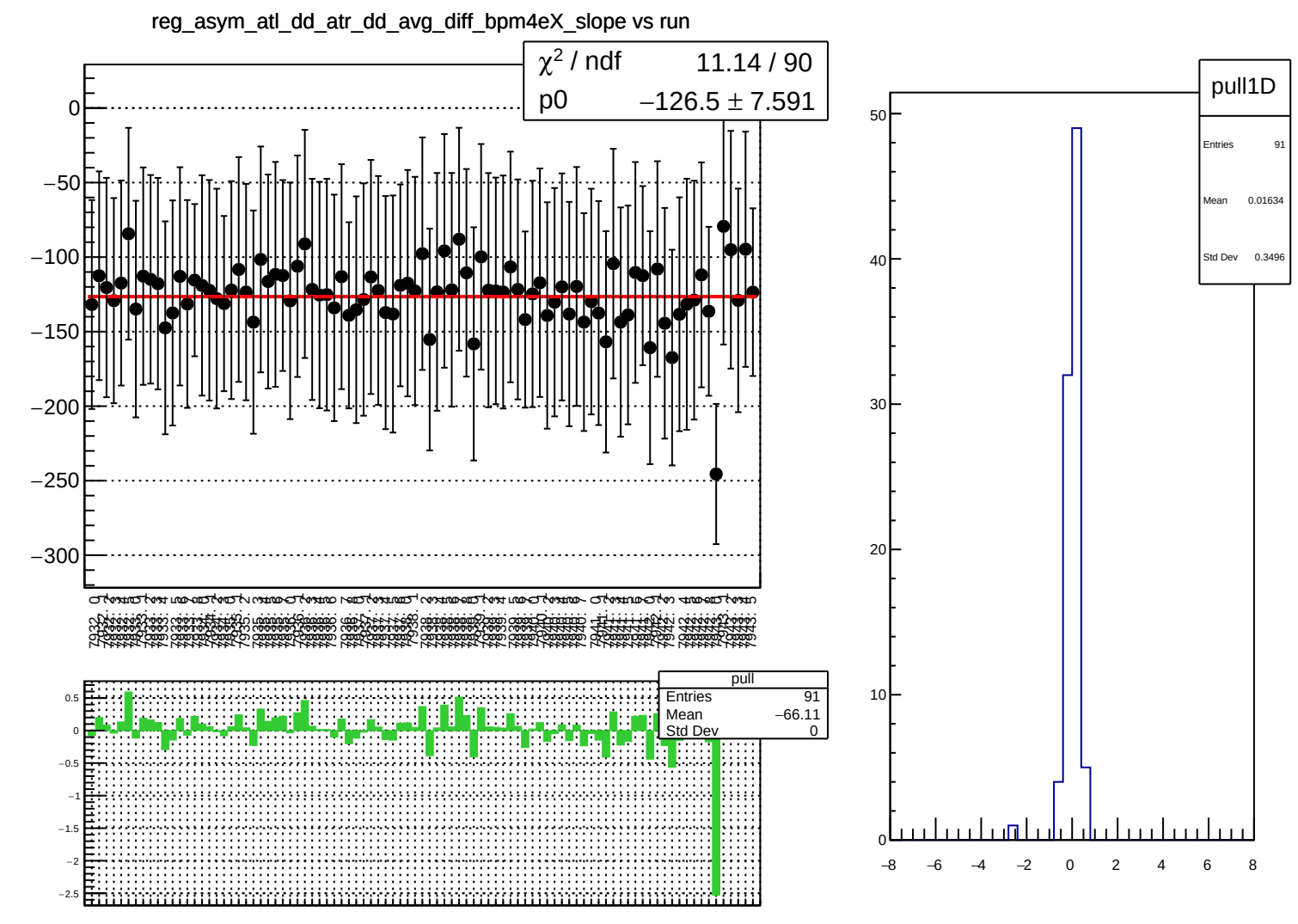

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.42 / 90
p0 96.57 ± 0.2183
pull
Entries 91
Mean −135.5
Std Dev 0
pull1D
Entries 91
Mean 0.007839
Std Dev 0.4374

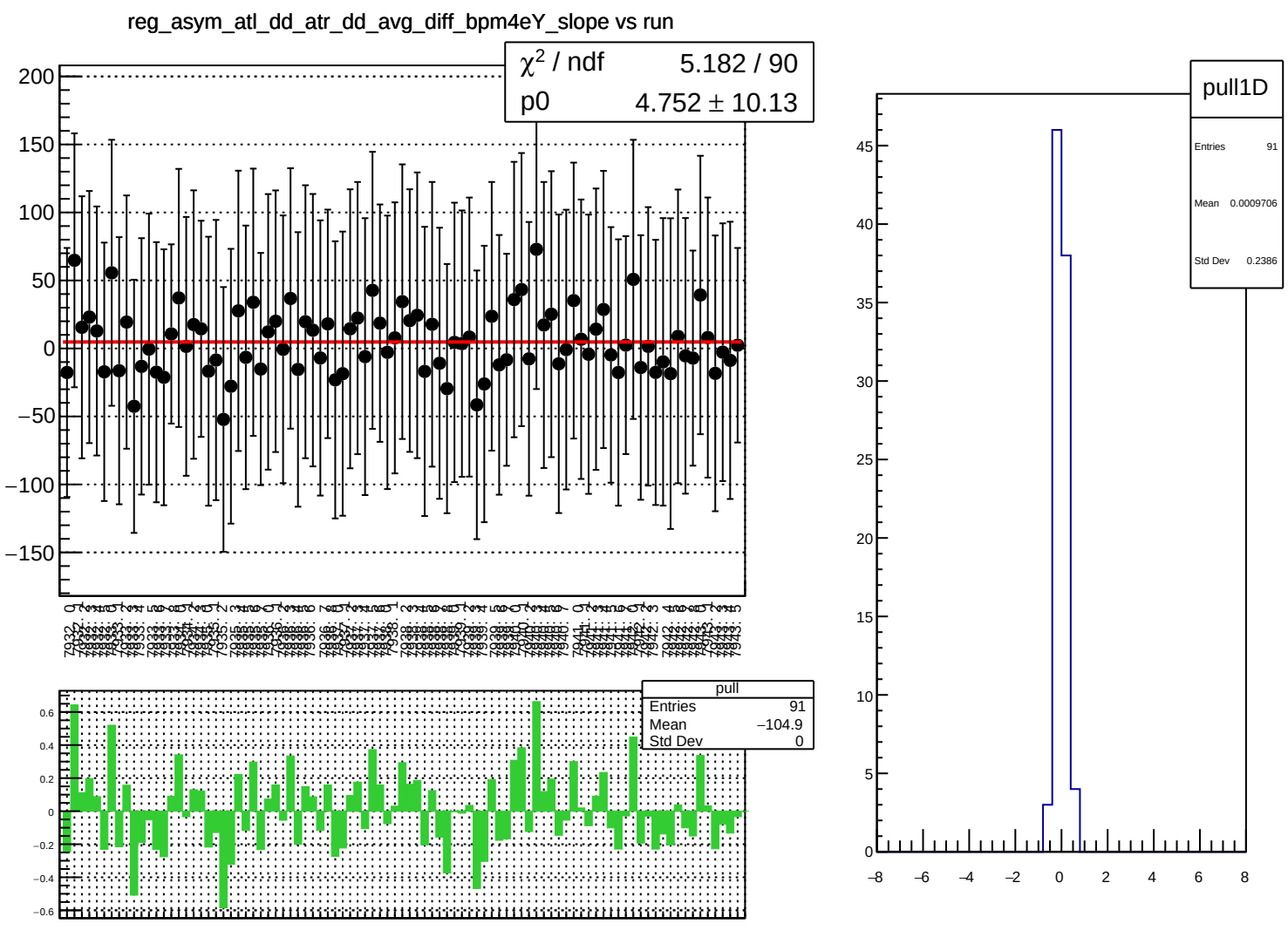

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 10.95 / 90
p0 122.9 ± 8.437
pull
Entries 91
Mean −78.91
Std Dev 0

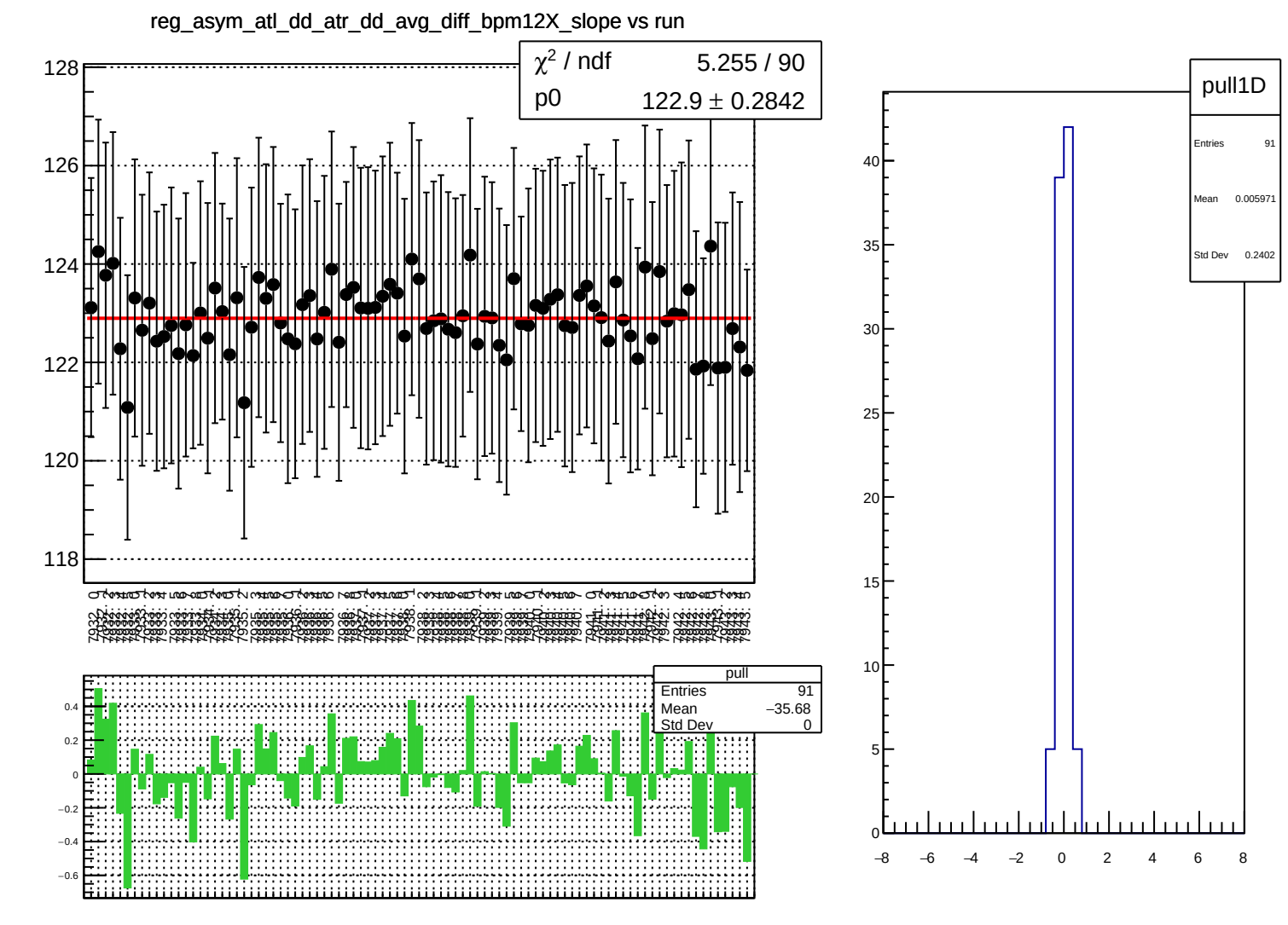

pull1D
Entries 91
Mean −0.01487
Std Dev 0.3466

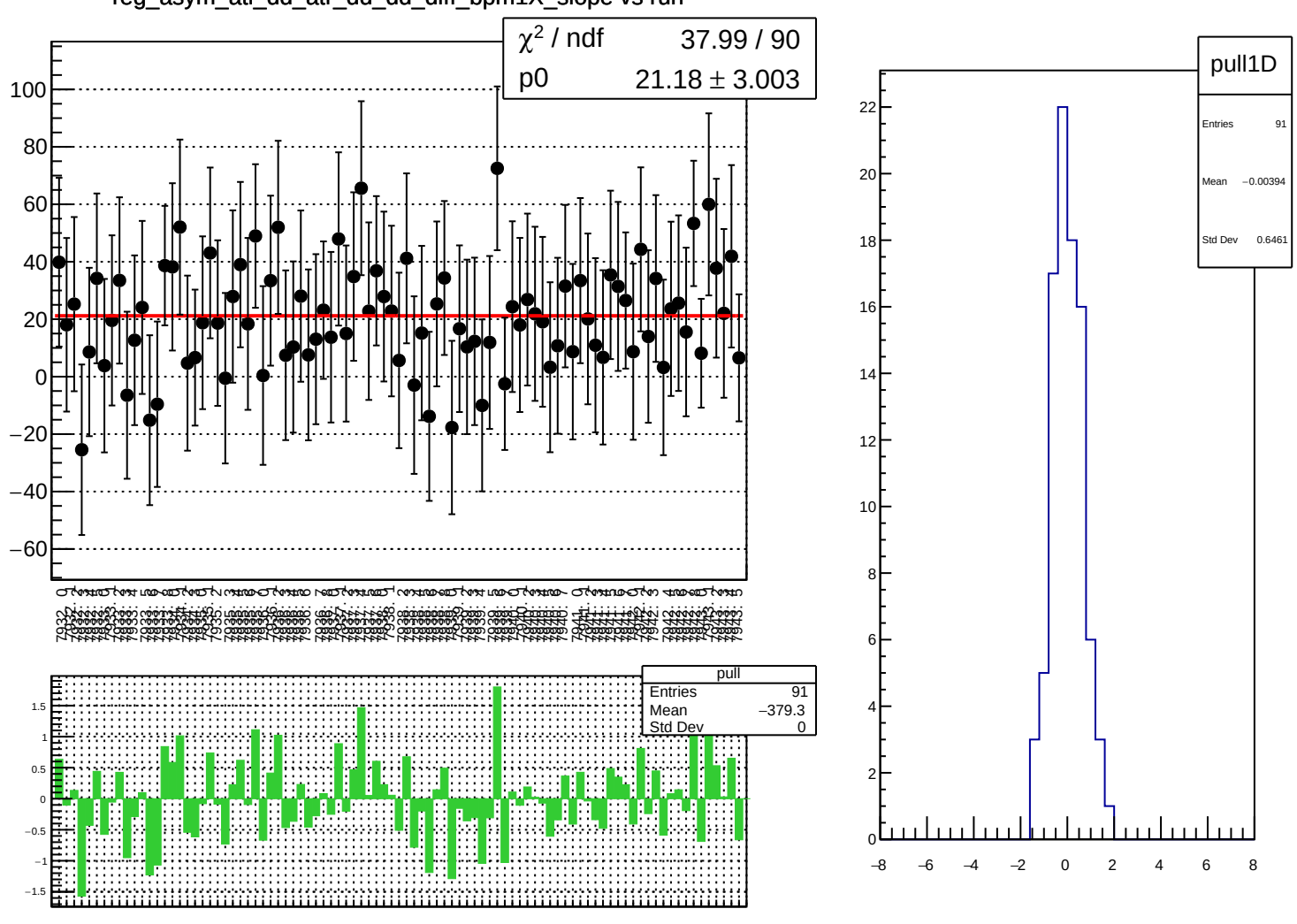

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.036 / 90
p0 −46.11 ± 8.788
pull
Entries 91
Mean −395.2
Std Dev 0

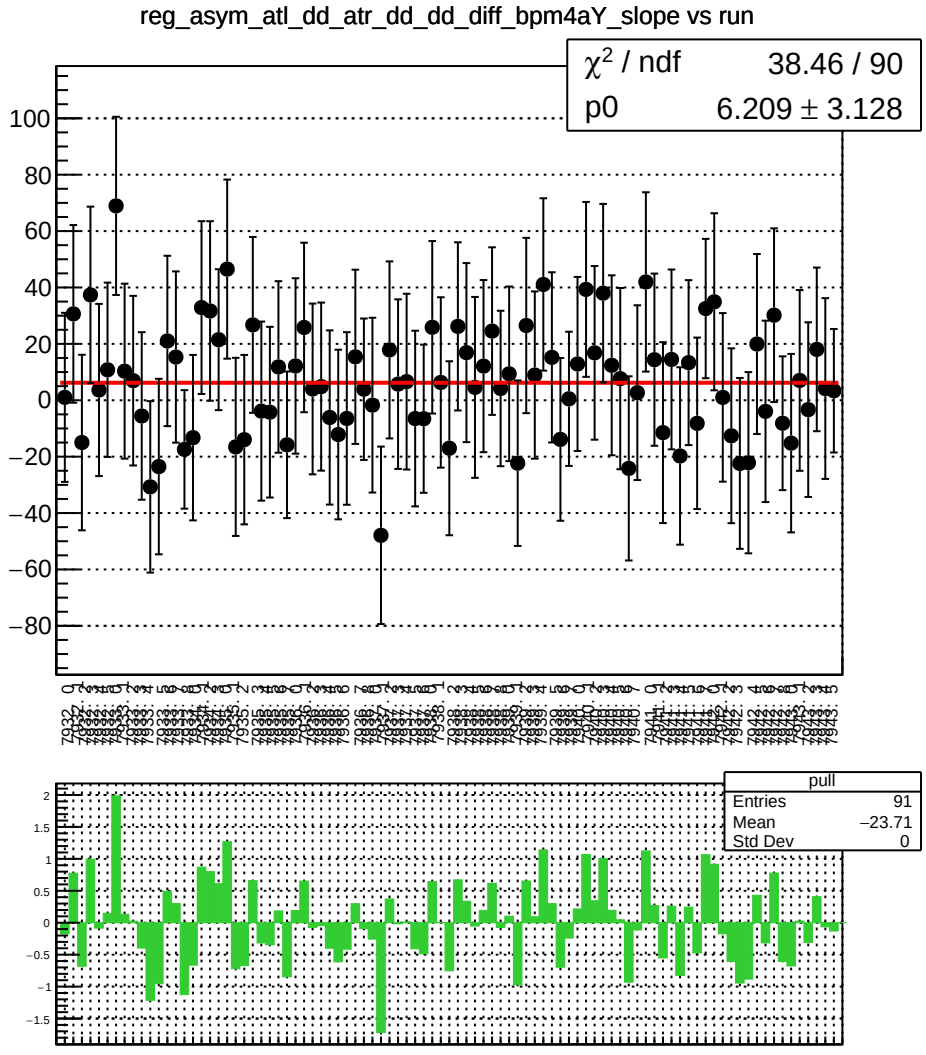

pull1D
Entries 91
Mean −0.0007564
Std Dev 0.2352

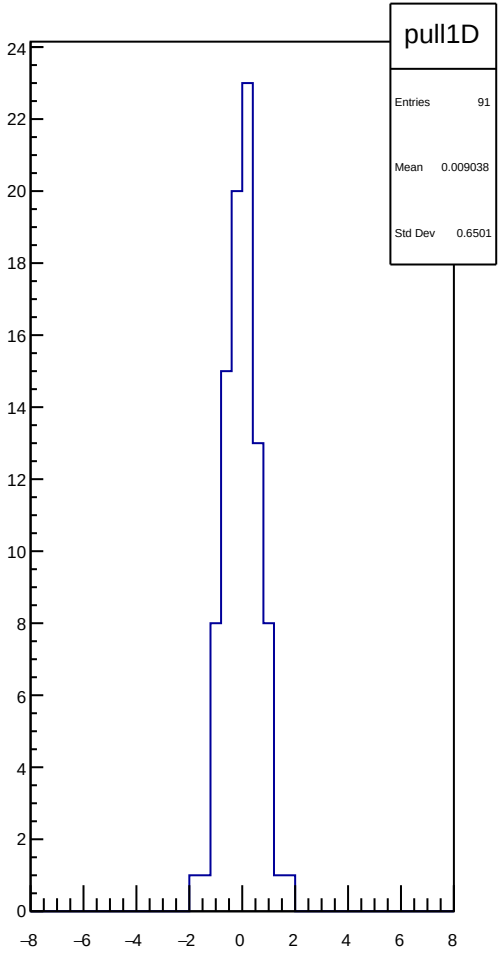

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.14 / 90
p0 −126.5 ± 7.591
pull
Entries 91
Mean −66.11
Std Dev 0
pull1D
Entries 91
Mean 0.01634
Std Dev 0.3496

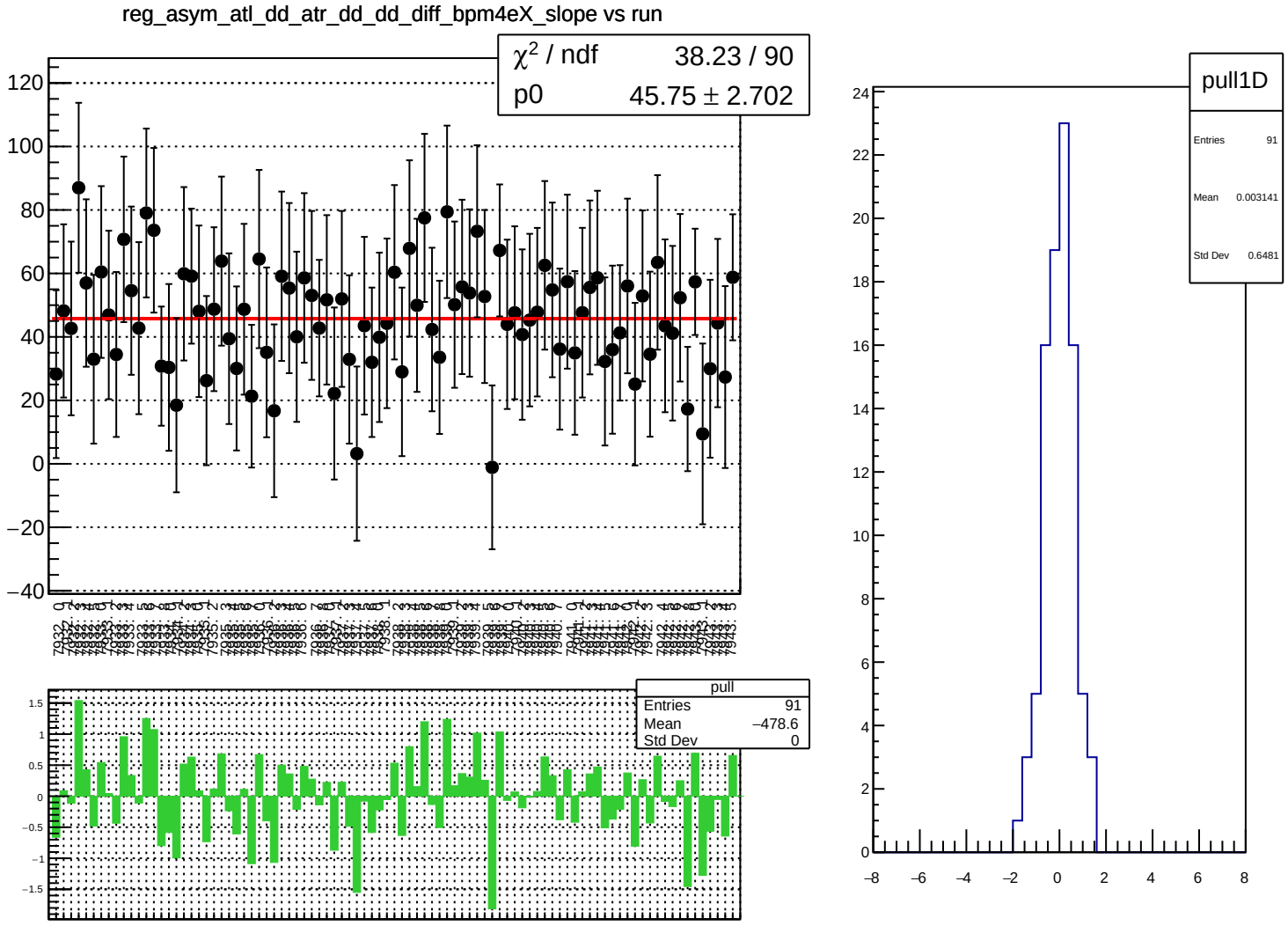

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.182 / 90
p0 4.752 ± 10.13
pull
Entries 91
Mean −104.9
Std Dev 0
pull1D
Entries 91
Mean 0.0009706
Std Dev 0.2386

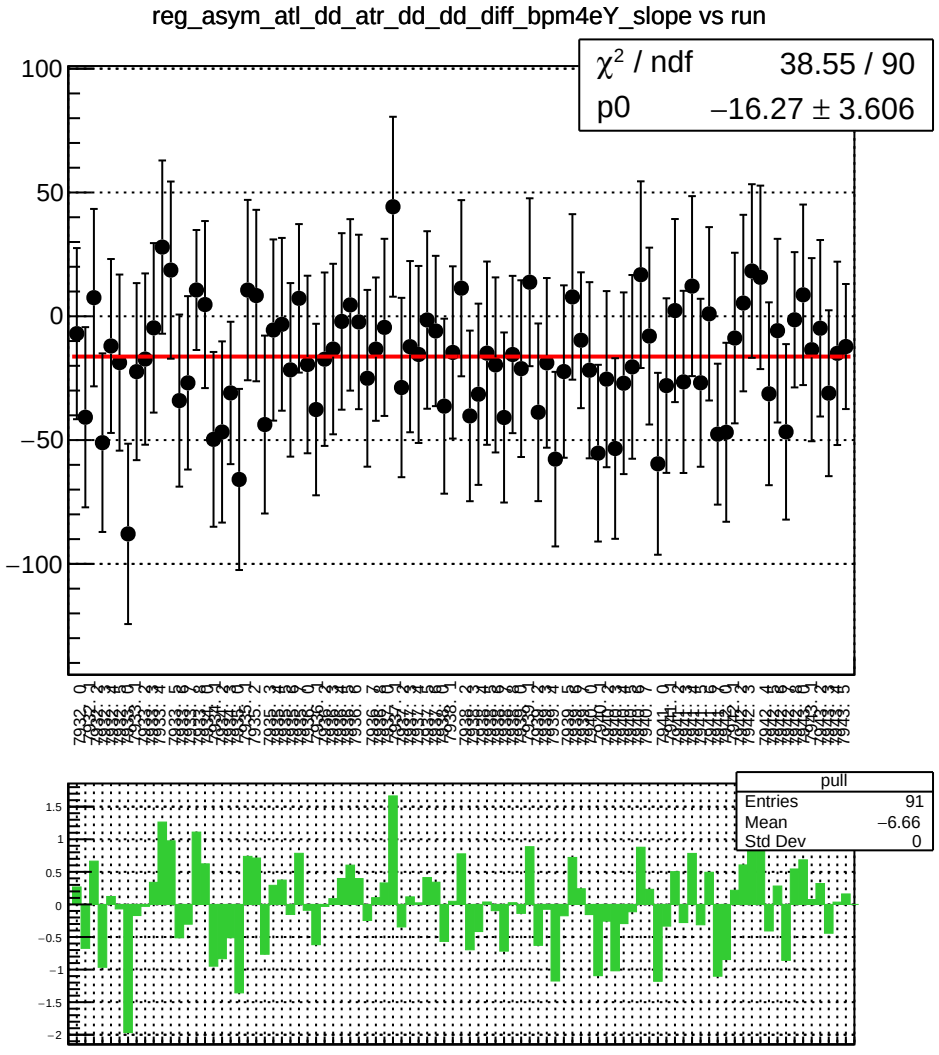

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.255 / 90
p0 122.9 ± 0.2842
128
126
124
122
120
118
pull
Entries 91
Mean −35.68
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.005971
Std Dev 0.2402
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

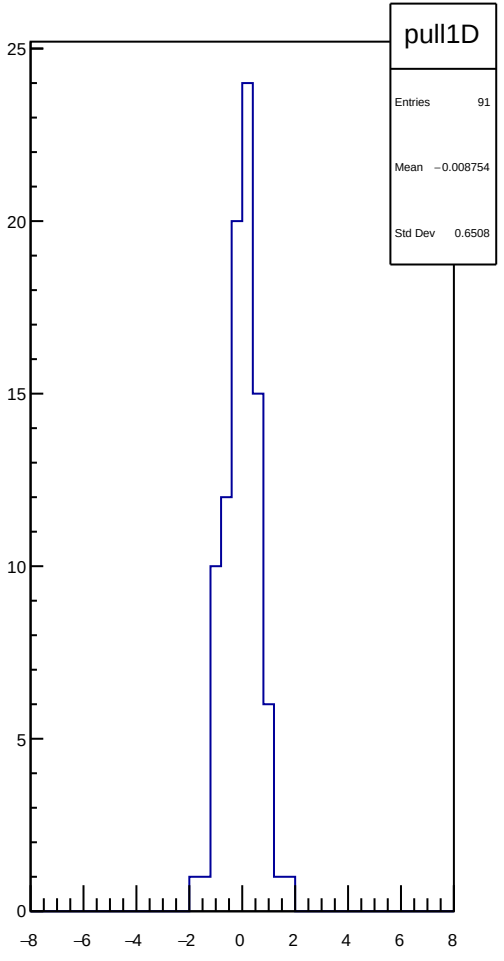

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 37.99 / 90
p0 21.18 ± 3.003
pull
Entries 91
Mean −379.3
Std Dev 0
pull1D
Entries 91
Mean −0.00394
Std Dev 0.6461

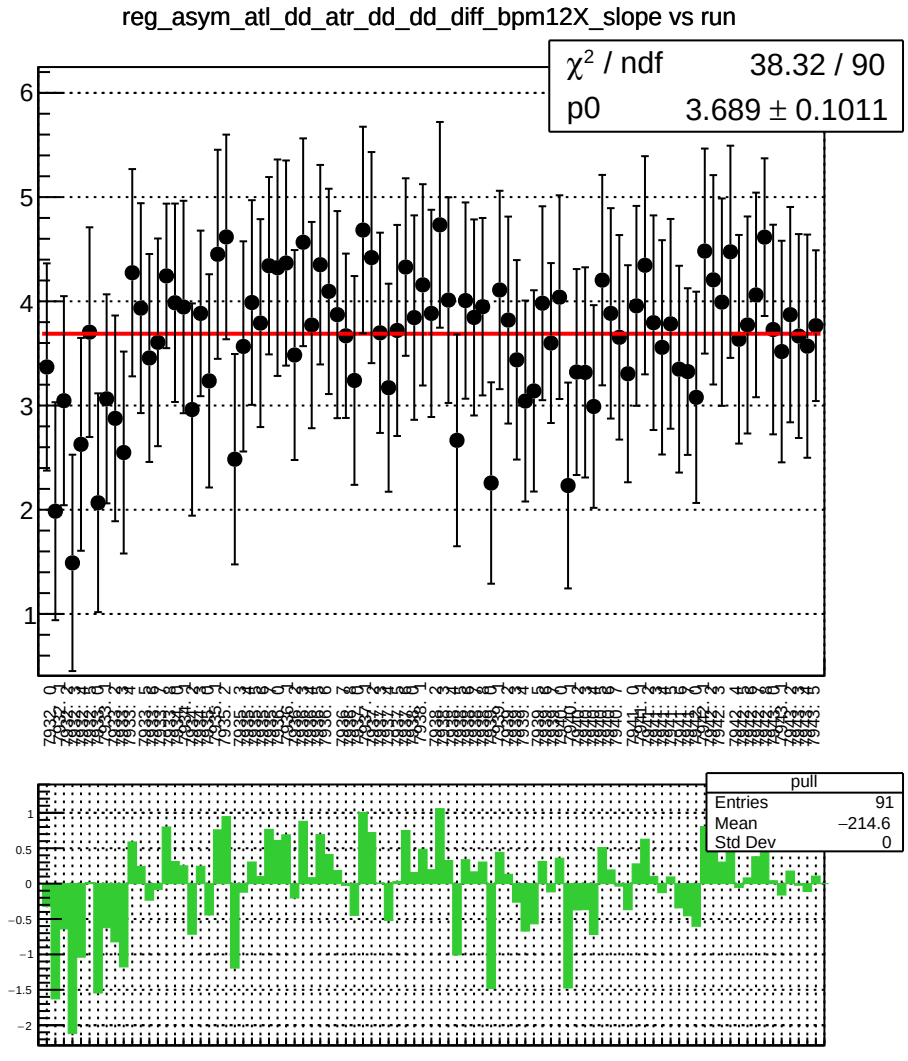

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.46 / 90
p0 6.209 ± 3.128
pull
Entries 91
Mean −23.71
Std Dev 0

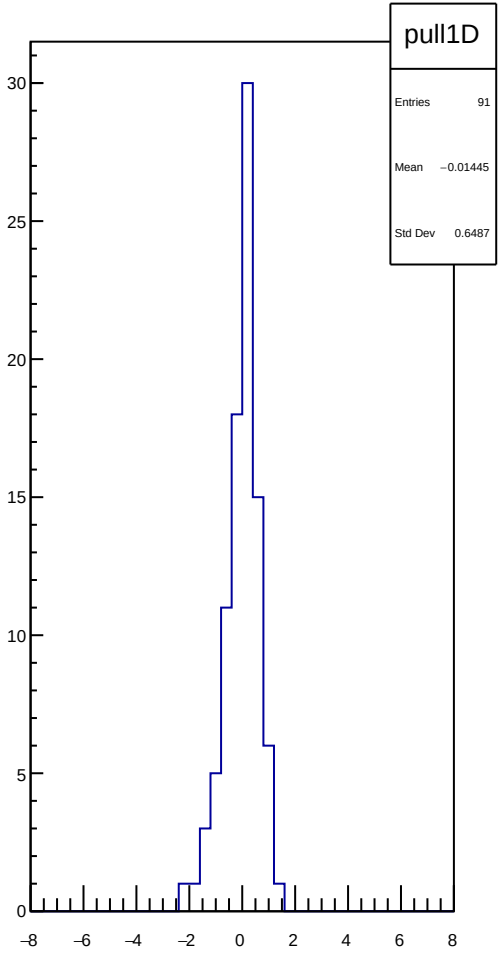

pull1D
Entries 91
Mean 0.009038
Std Dev 0.6501

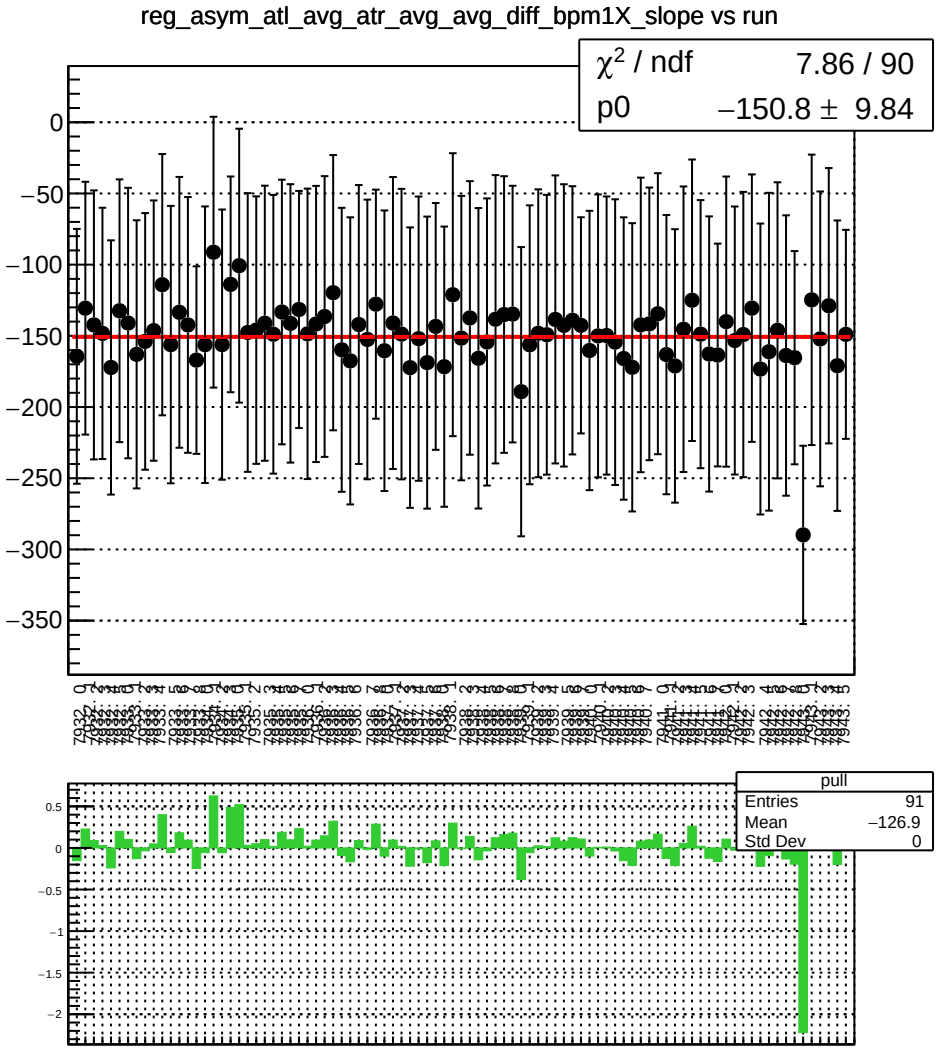

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.23 / 90
p0 45.75 ± 2.702
pull
Entries 91
Mean −478.6
Std Dev 0
pull1D
Entries 91
Mean 0.003141
Std Dev 0.6481

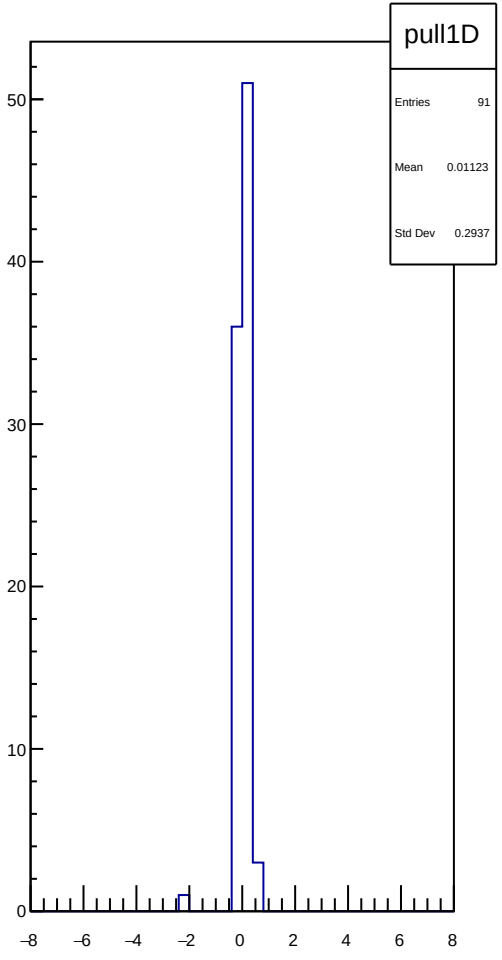

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.55 / 90
p0 −16.27 ± 3.606
pull
Entries 91
Mean −6.66
Std Dev 0

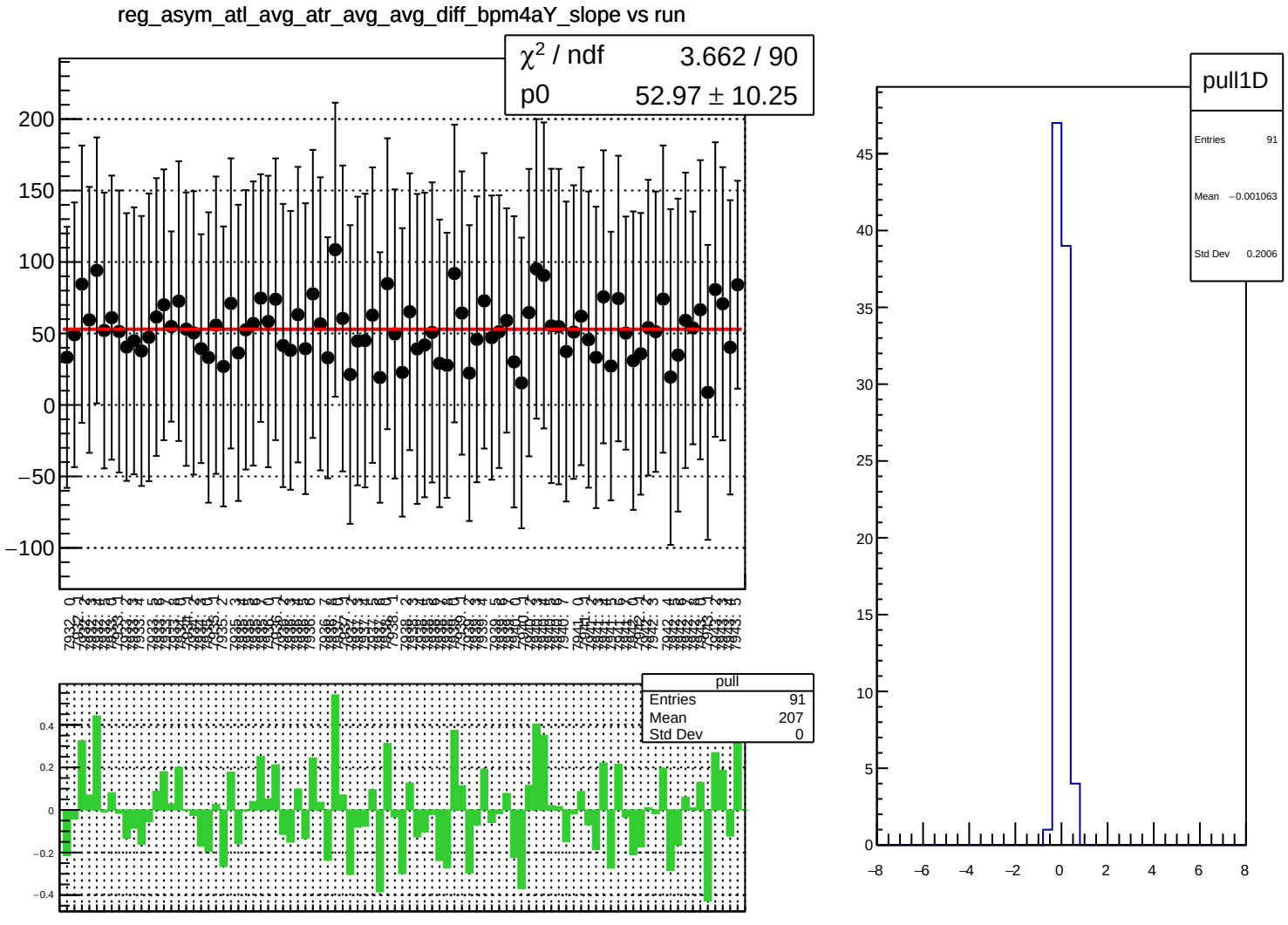

pull1D
Entries 91
Mean −0.008754
Std Dev 0.6508

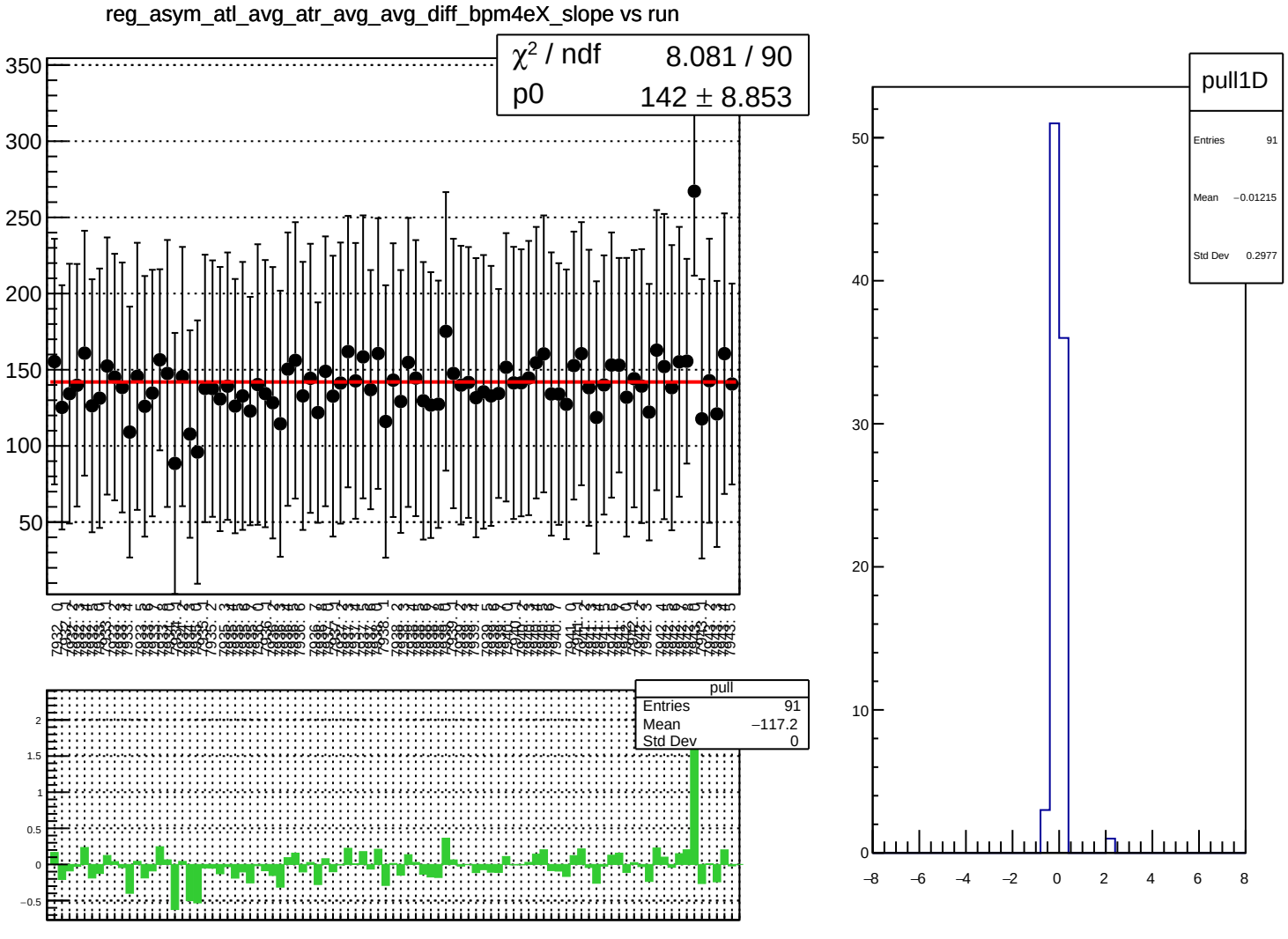

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 38.32 / 90
p0 3.689 ± 0.1011
pull
Entries 91
Mean −214.6
Std Dev 0

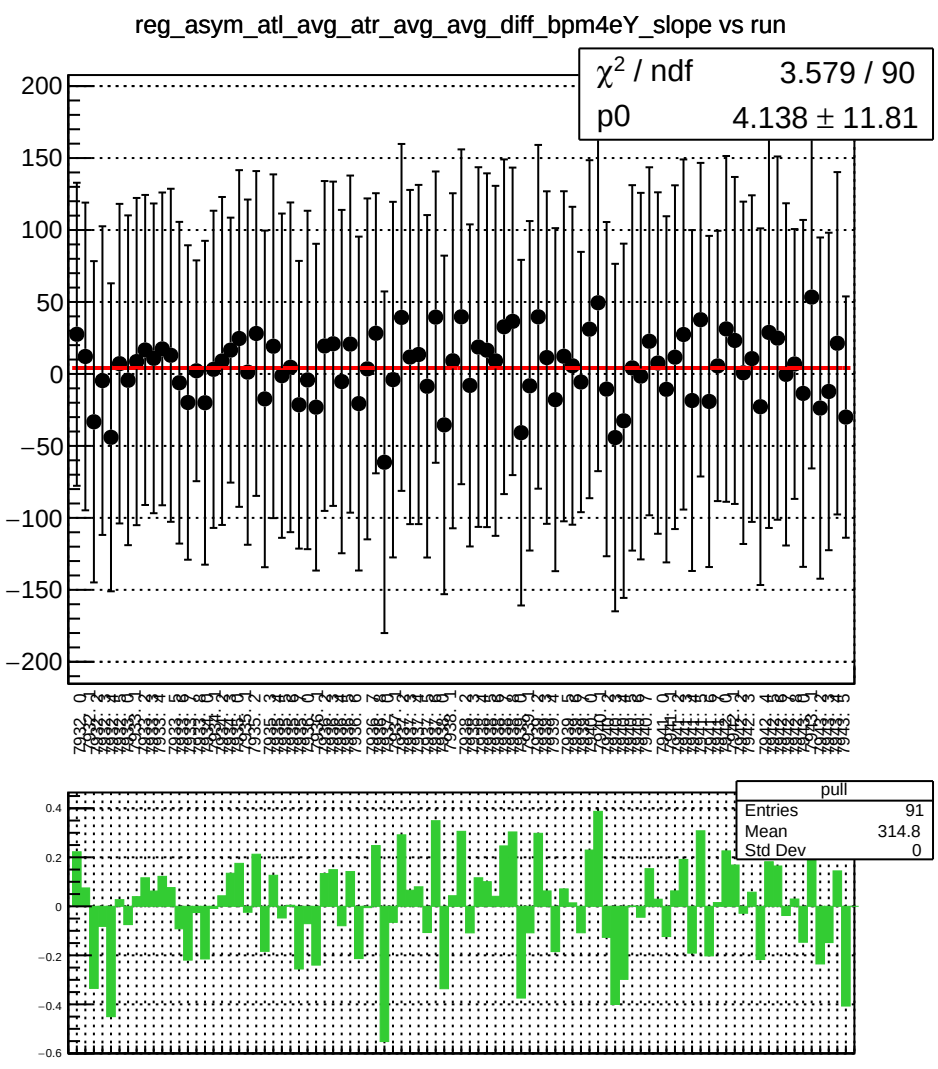

pull1D
Entries 91
Mean −0.01445
Std Dev 0.6487

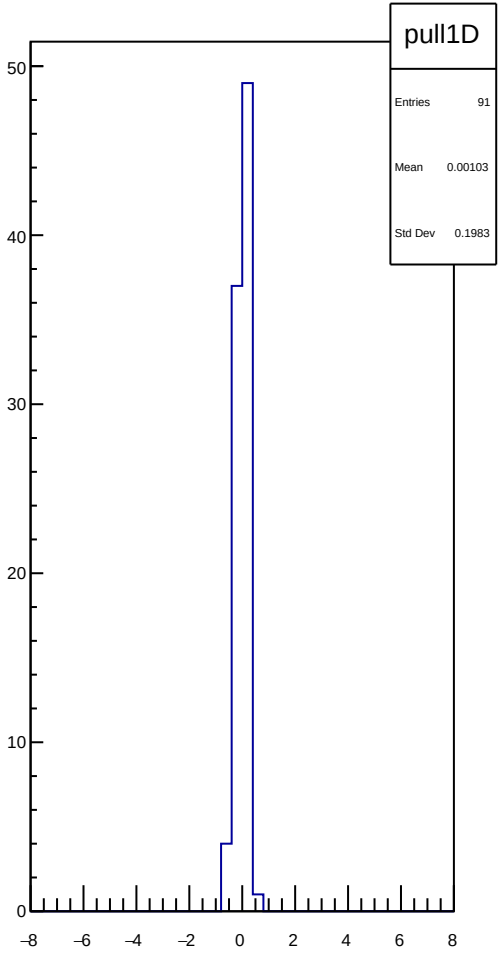

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.86 / 90
p0 −150.8 ± 9.84
pull
Entries 91
Mean −126.9
Std Dev 0

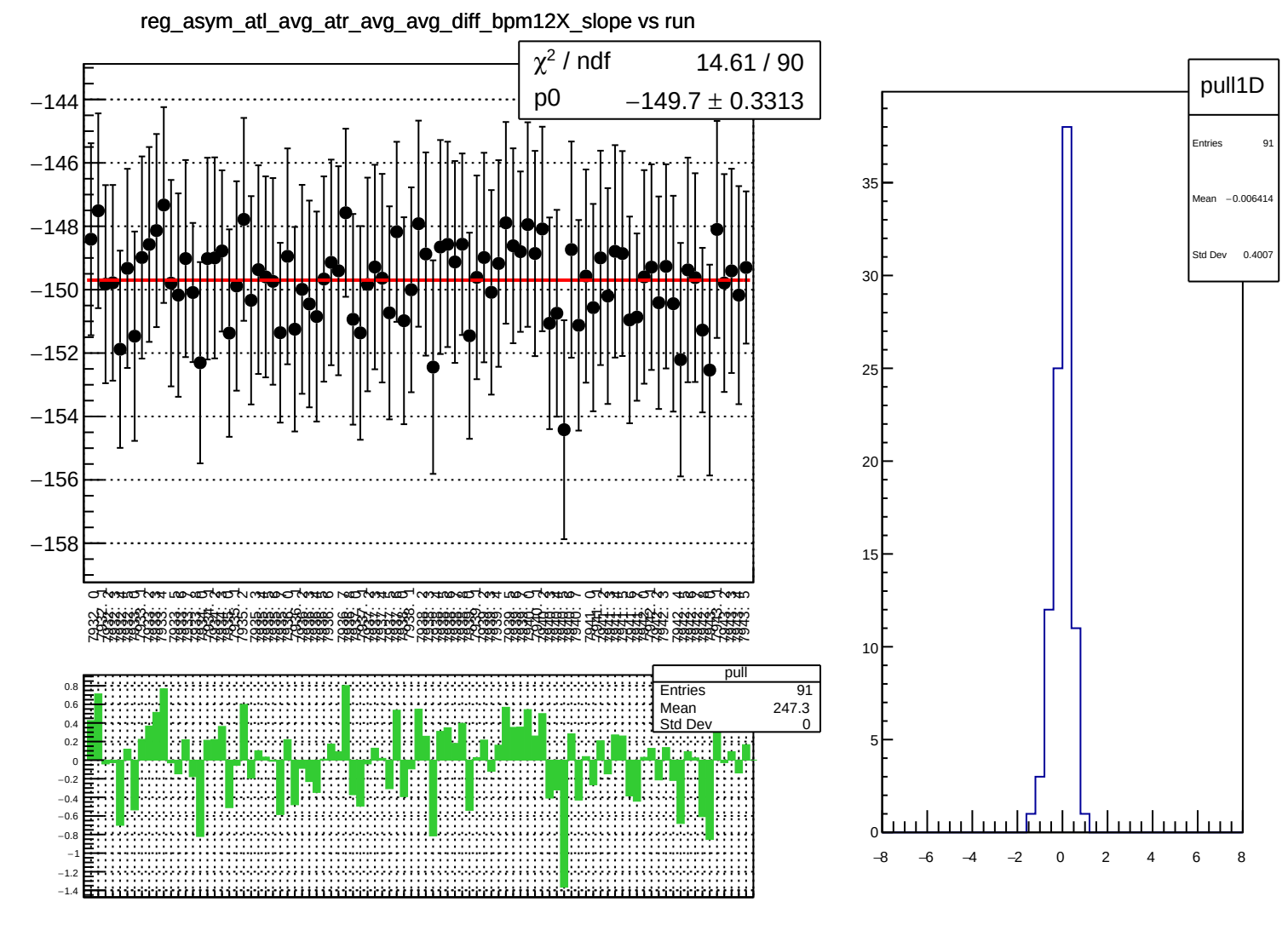

pull1D
Entries 91
Mean 0.01123
Std Dev 0.2937

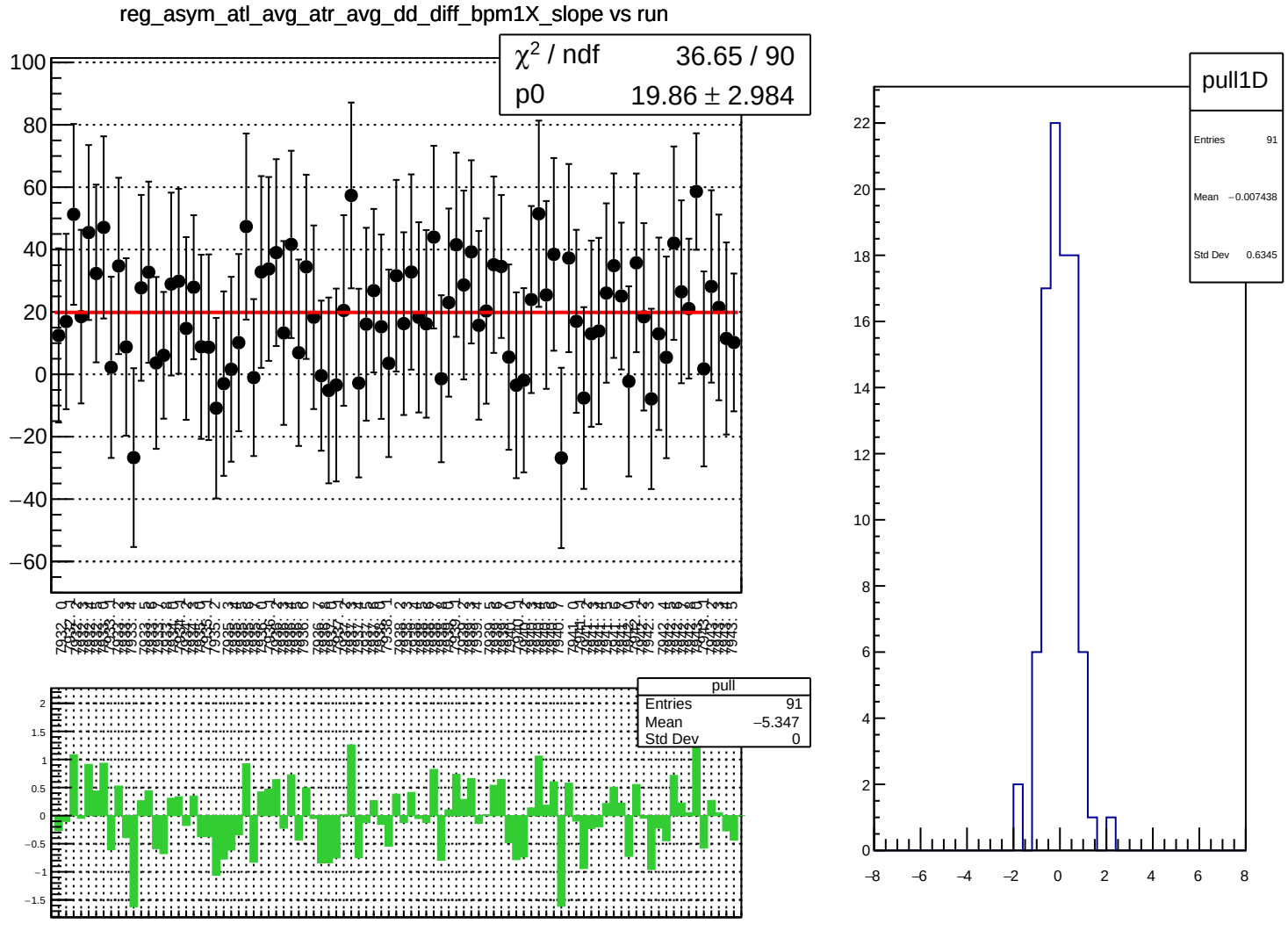

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.662 / 90
p0 52.97 ± 10.25
pull
Entries 91
Mean 207
Std Dev 0
pull1D
Entries 91
Mean −0.001063
Std Dev 0.2006

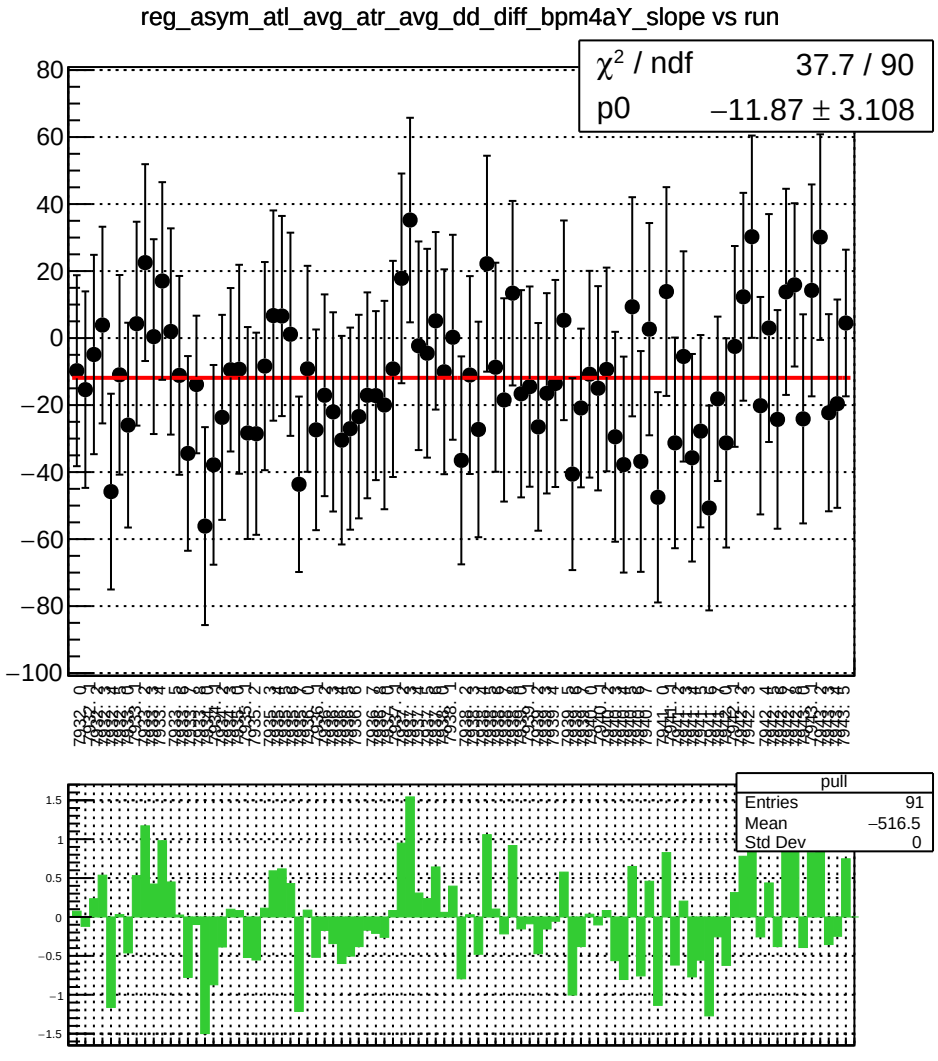

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.081 / 90
p0 142 ± 8.853
pull
Entries 91
Mean −117.2
Std Dev 0
pull1D
Entries 91
Mean −0.01215
Std Dev 0.2977

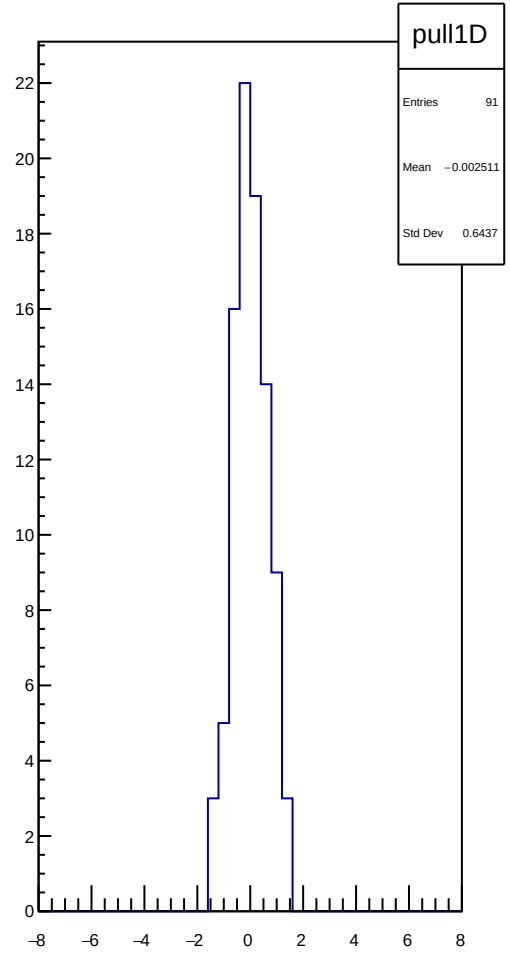

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.579 / 90
p0 4.138 ± 11.81
pull
Entries 91
Mean 314.8
Std Dev 0

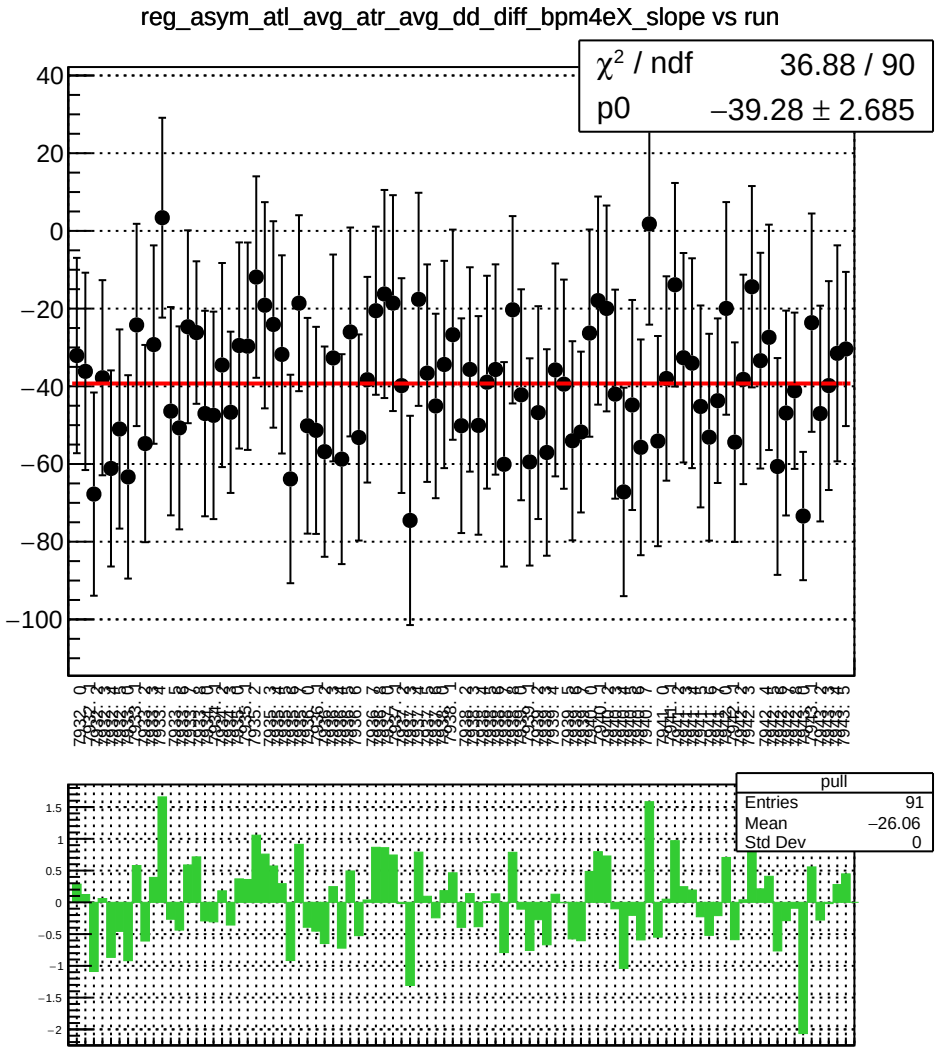

pull1D
Entries 91
Mean 0.00103
Std Dev 0.1983

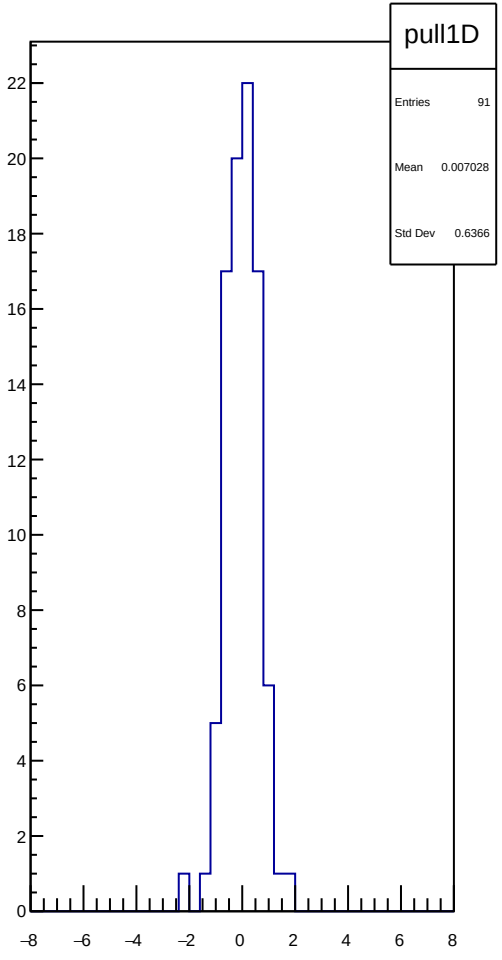

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 14.61 / 90
p0 −149.7 ± 0.3313
−144
−146
−148
−150
−152
−154
−156
−158
pull
Entries 91
Mean 247.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 91
Mean −0.006414
Std Dev 0.4007
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

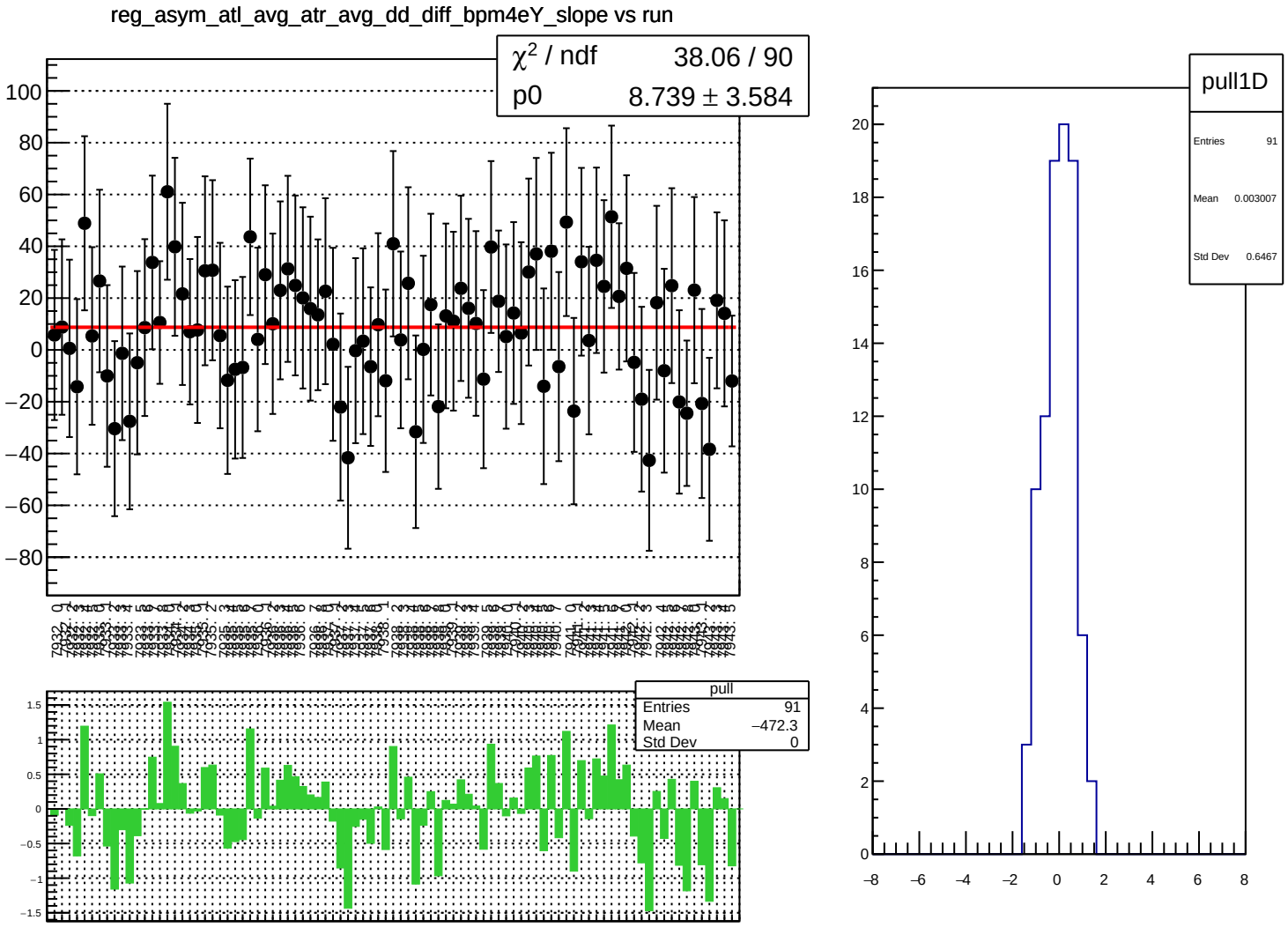

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 36.65 / 90
p0 19.86 ± 2.984
pull
Entries 91
Mean −5.347
Std Dev 0
pull1D
Entries 91
Mean −0.007438
Std Dev 0.6345

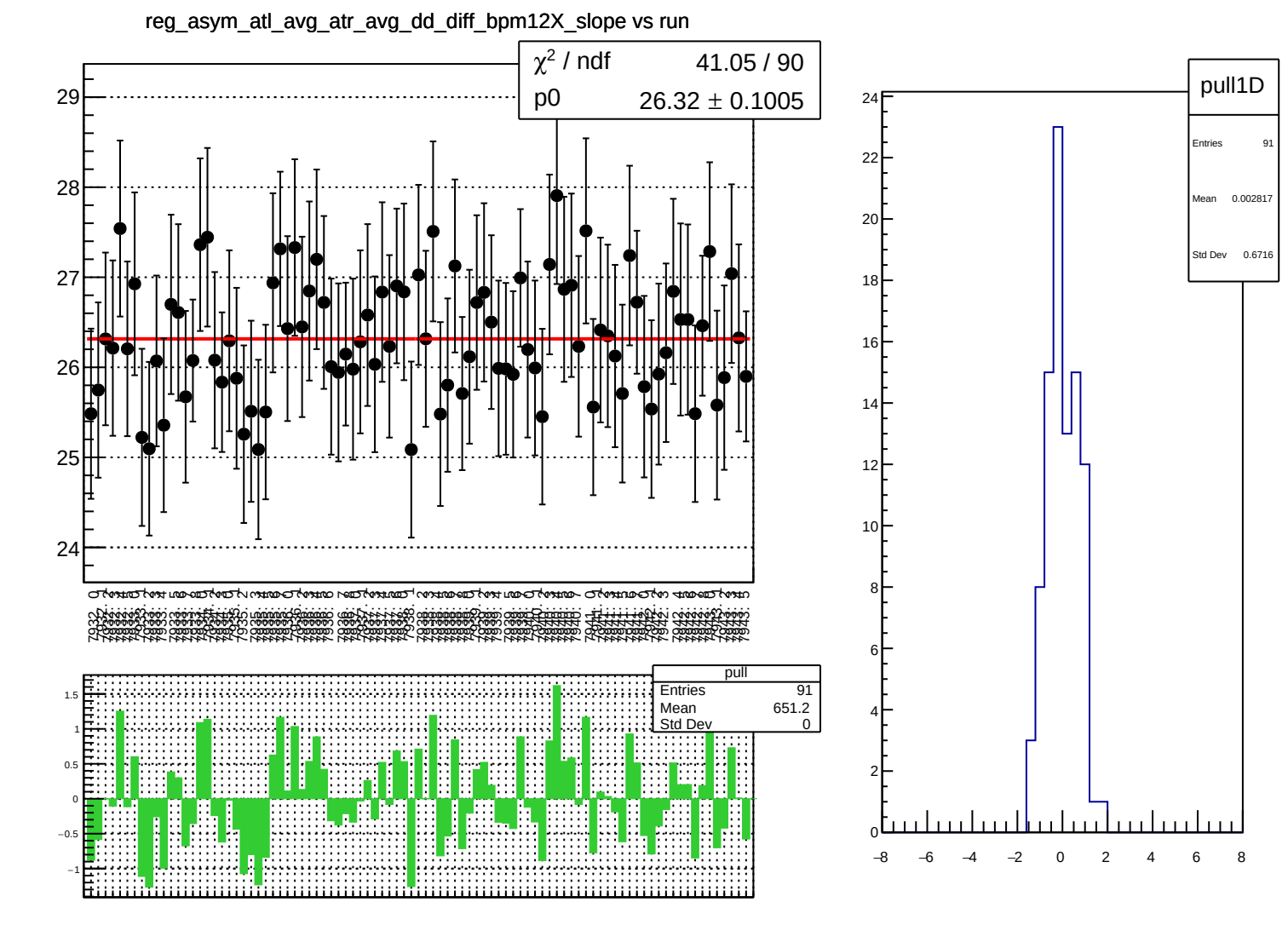

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.7 / 90
p0 −11.87 ± 3.108
pull
Entries 91
Mean −516.5
Std Dev 0

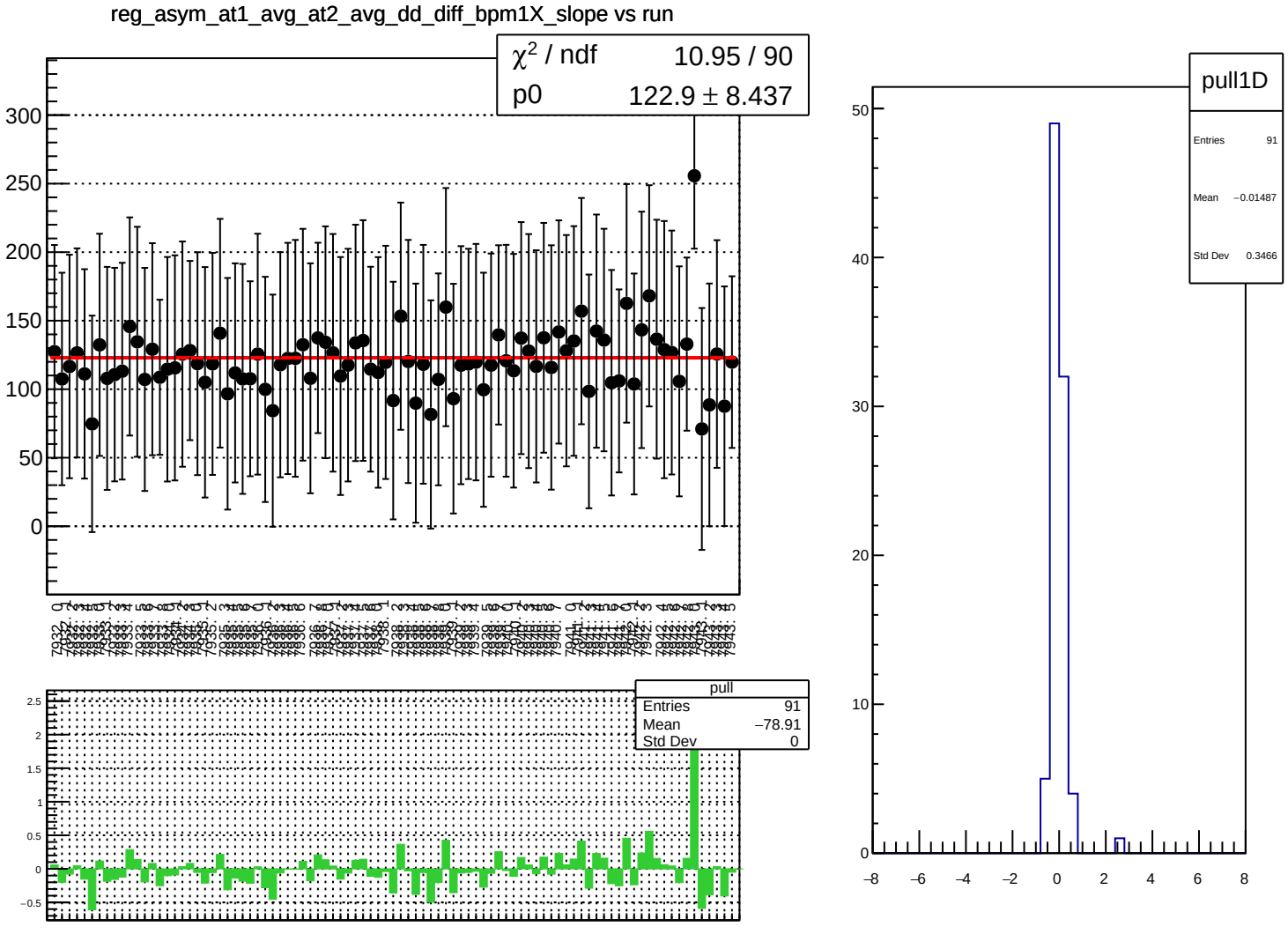

pull1D
Entries 91
Mean −0.002511
Std Dev 0.6437

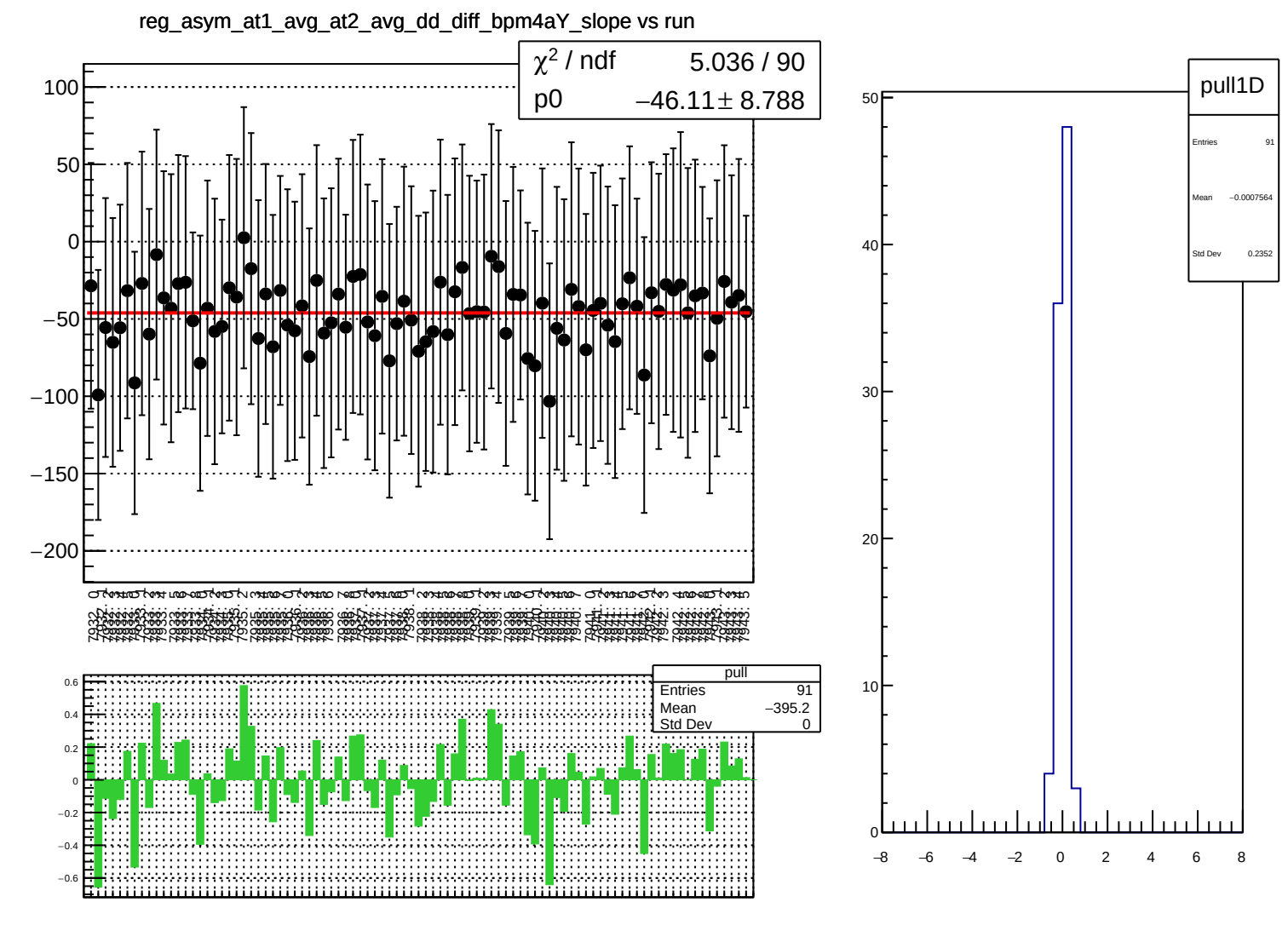

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.88 / 90
p0 −39.28 ± 2.685
pull
Entries 91
Mean −26.06
Std Dev 0

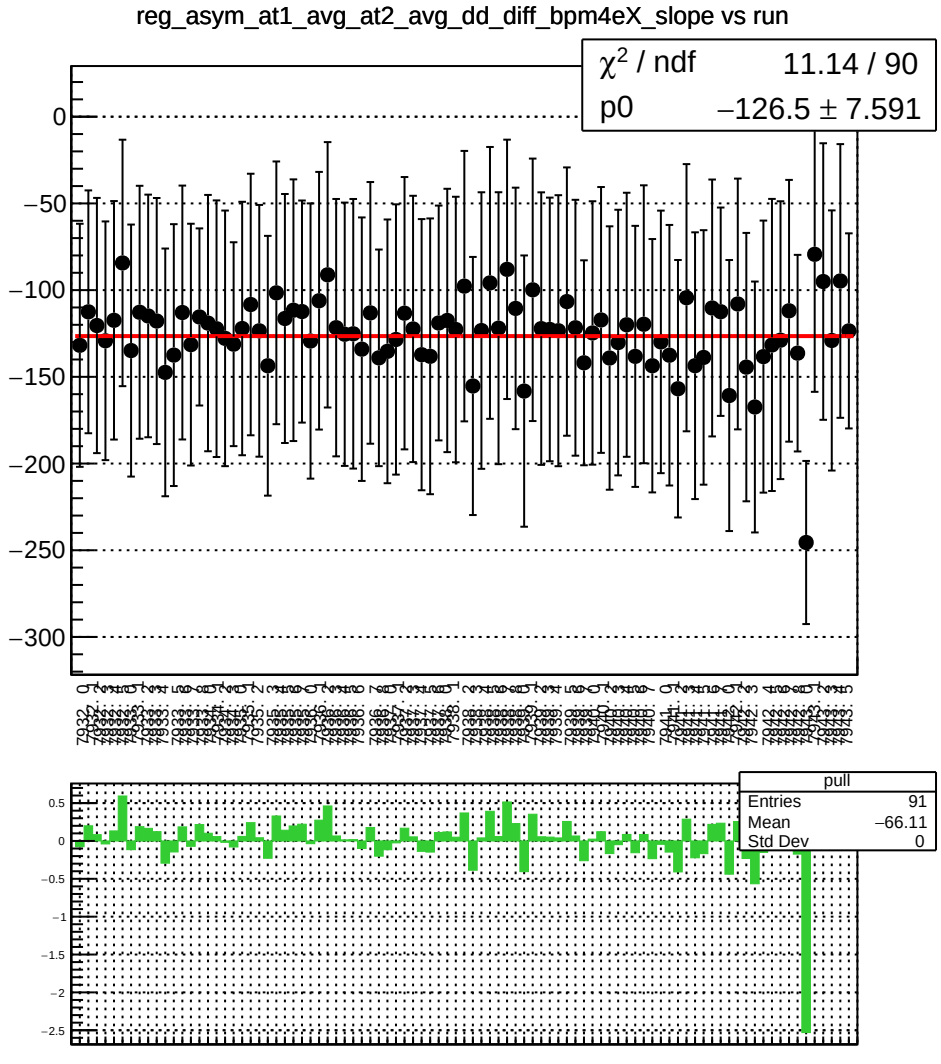

pull1D
Entries 91
Mean 0.007028
Std Dev 0.6366

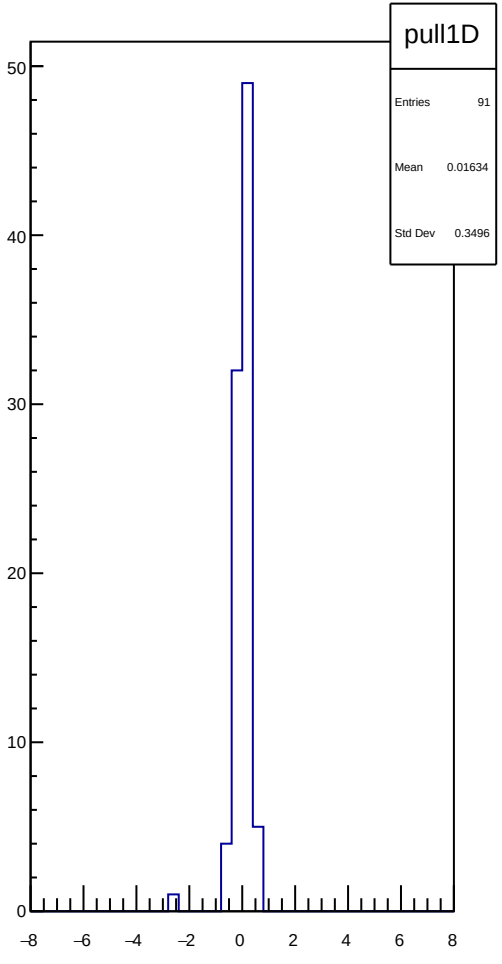

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.06 / 90
p0 8.739 ± 3.584
pull
Entries 91
Mean −472.3
Std Dev 0
pull1D
Entries 91
Mean 0.003007
Std Dev 0.6467

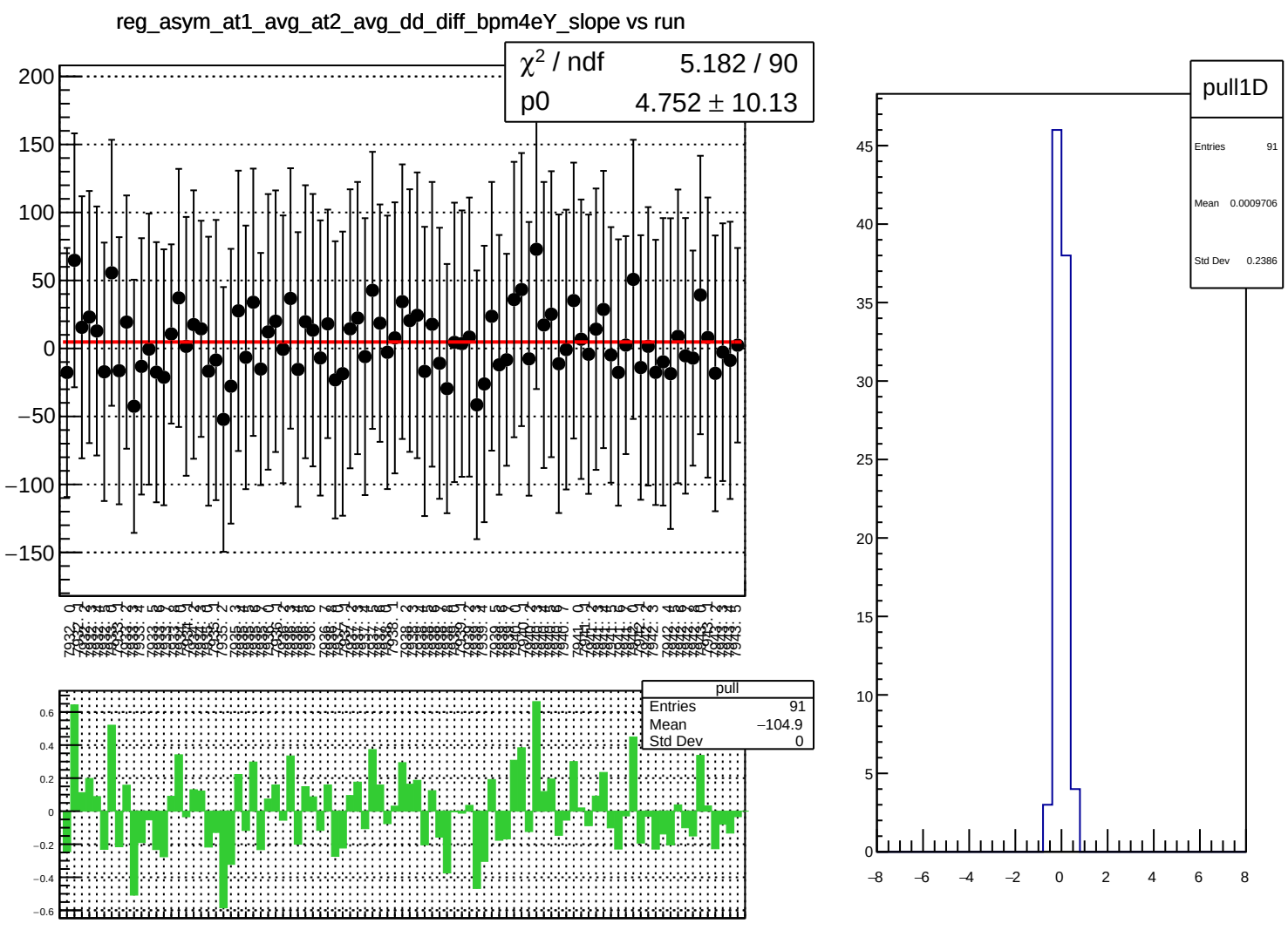

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 41.05 / 90
p0 26.32 ± 0.1005
pull
Entries 91
Mean 651.2
Std Dev 0
pull1D
Entries 91
Mean 0.002817
Std Dev 0.6716

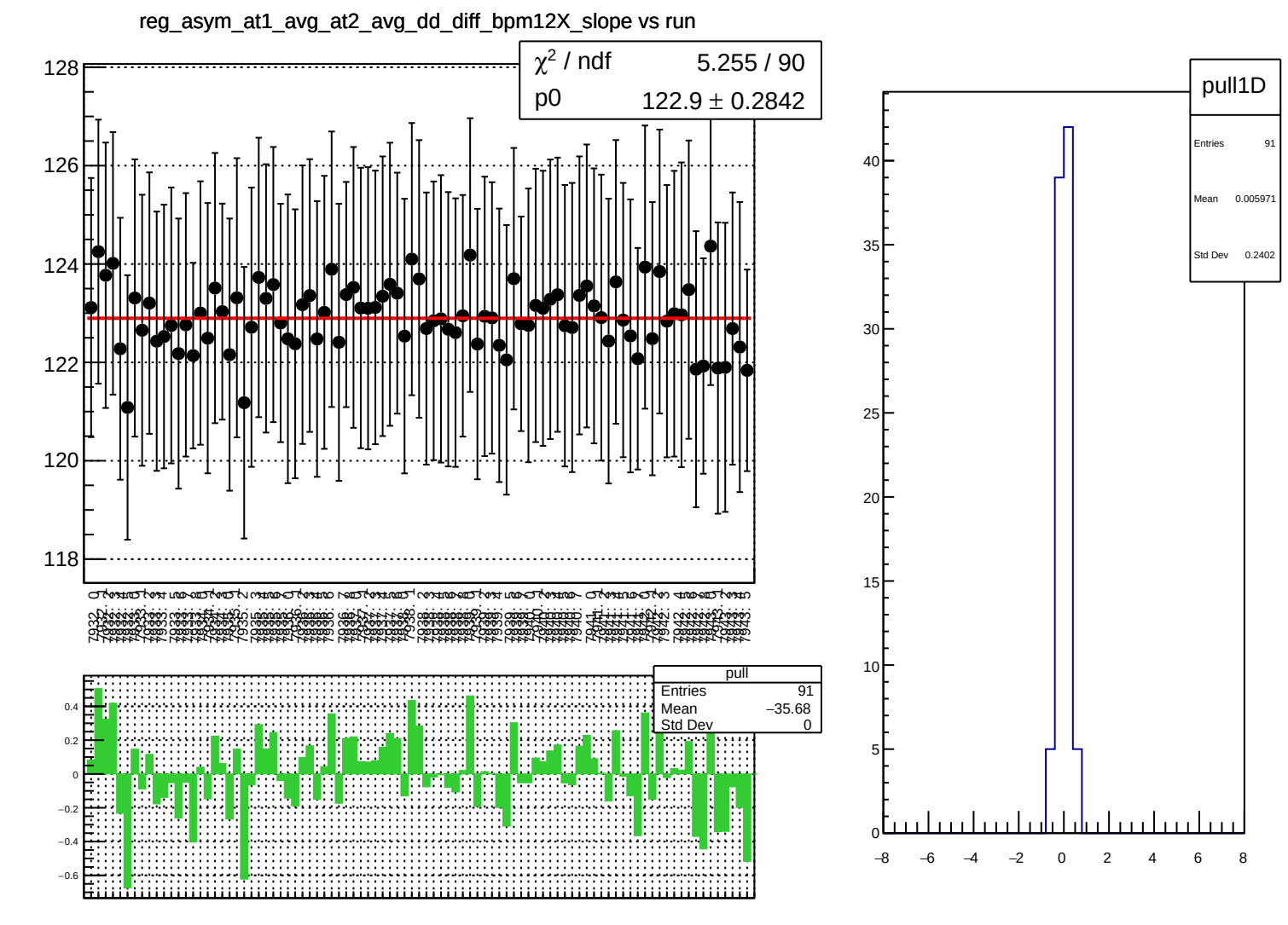

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.95 / 90
p0 122.9 ± 8.437
pull
Entries 91
Mean −78.91
Std Dev 0
pull1D
Entries 91
Mean −0.01487
Std Dev 0.3466

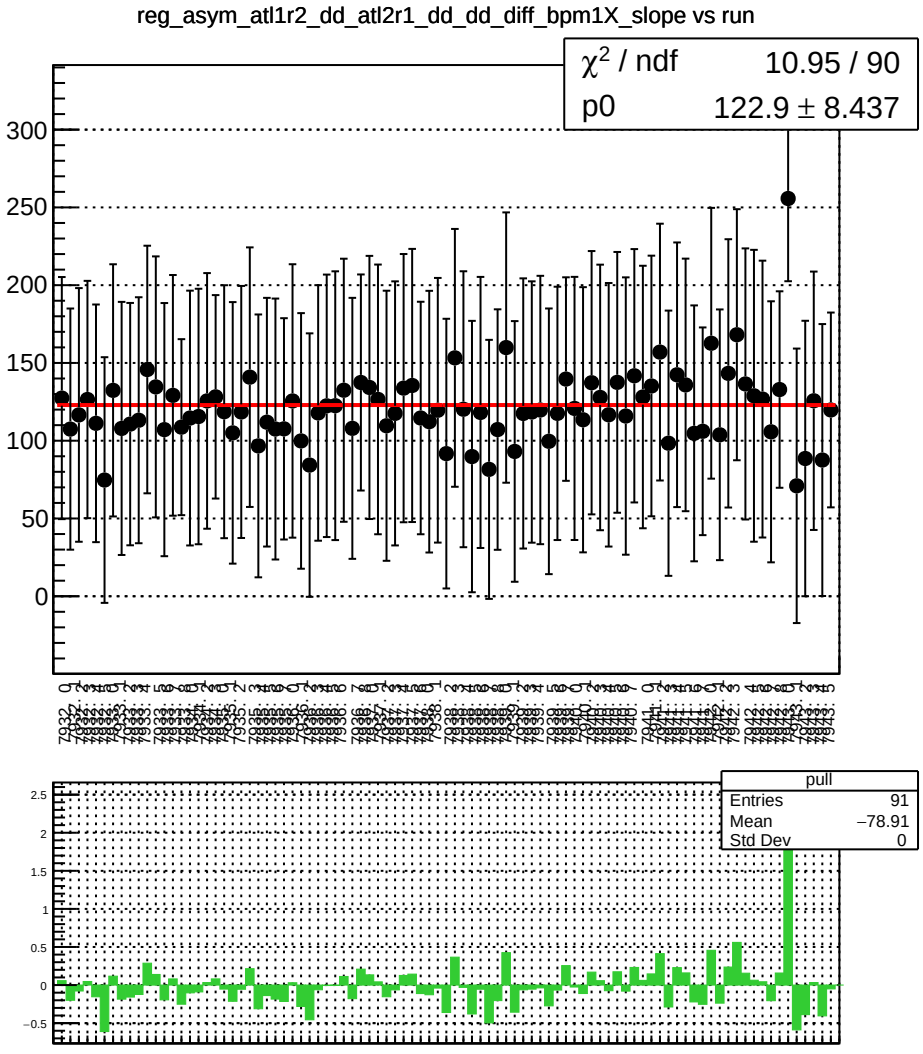

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.036 / 90
p0 −46.11 ± 8.788
pull
Entries 91
Mean −395.2
Std Dev 0
pull1D
Entries 91
Mean −0.0007564
Std Dev 0.2352

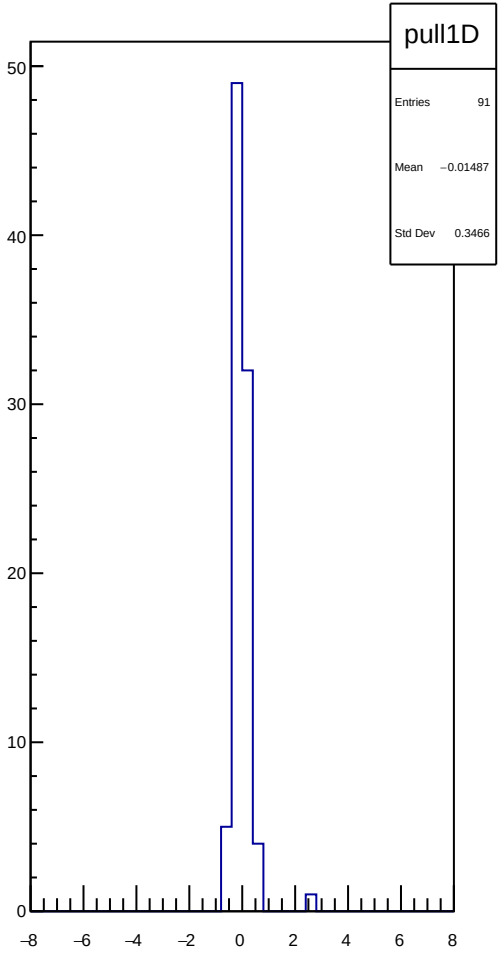

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.14 / 90
p0 −126.5 ± 7.591
pull
Entries 91
Mean −66.11
Std Dev 0

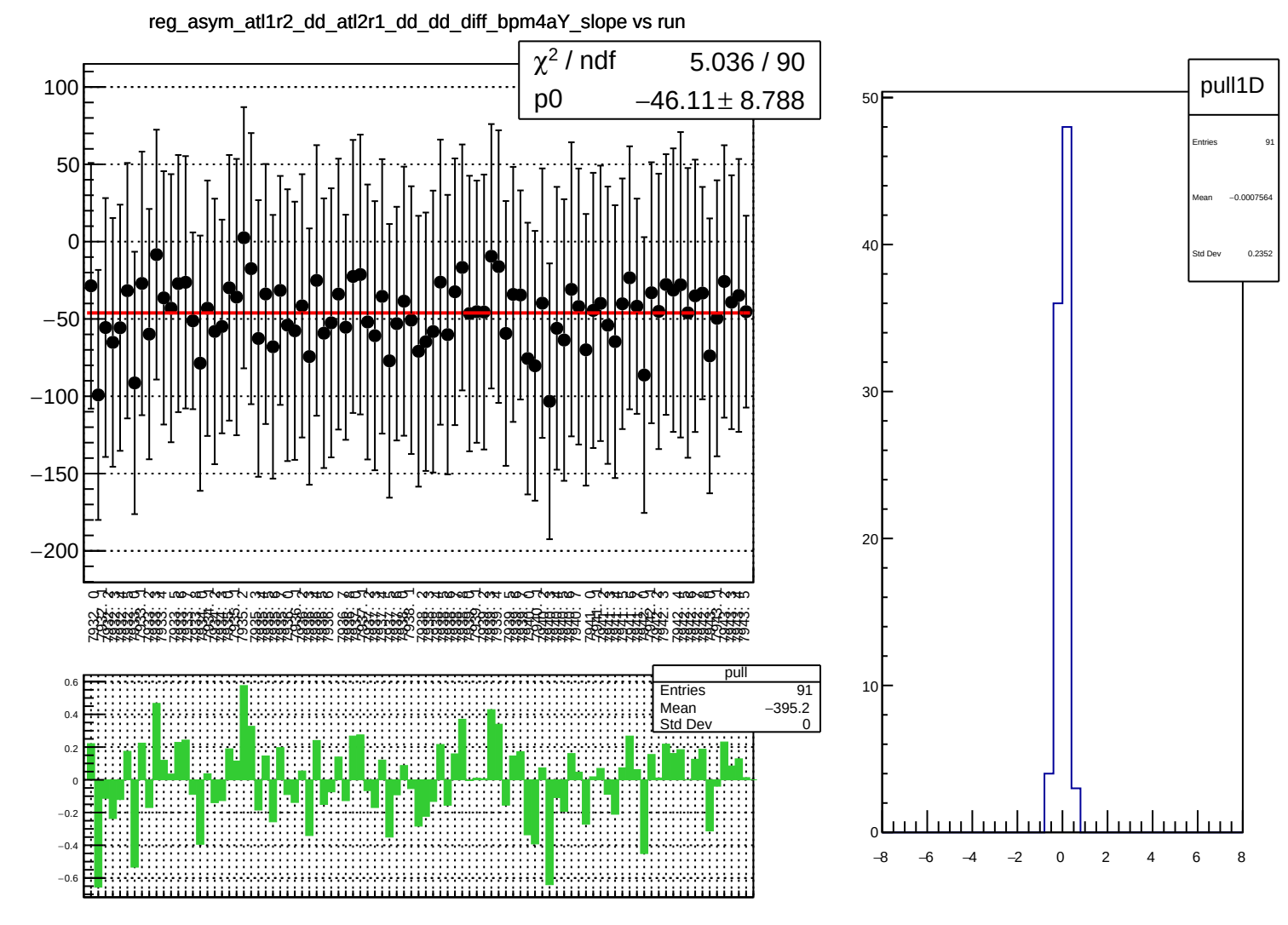

pull1D
Entries 91
Mean 0.01634
Std Dev 0.3496

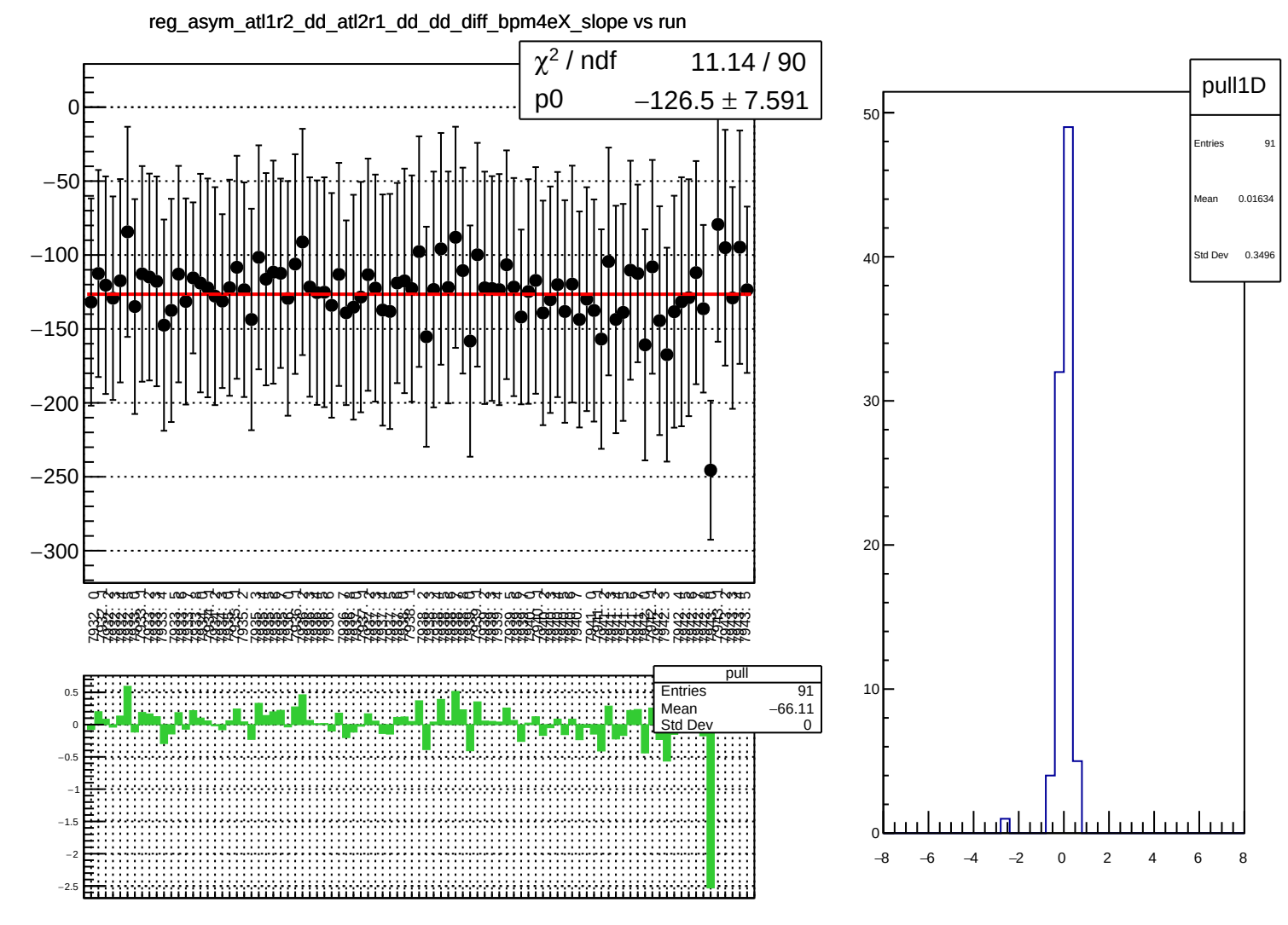

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.182 / 90
p0 4.752 ± 10.13
pull
Entries 91
Mean −104.9
Std Dev 0
pull1D
Entries 91
Mean 0.0009706
Std Dev 0.2386

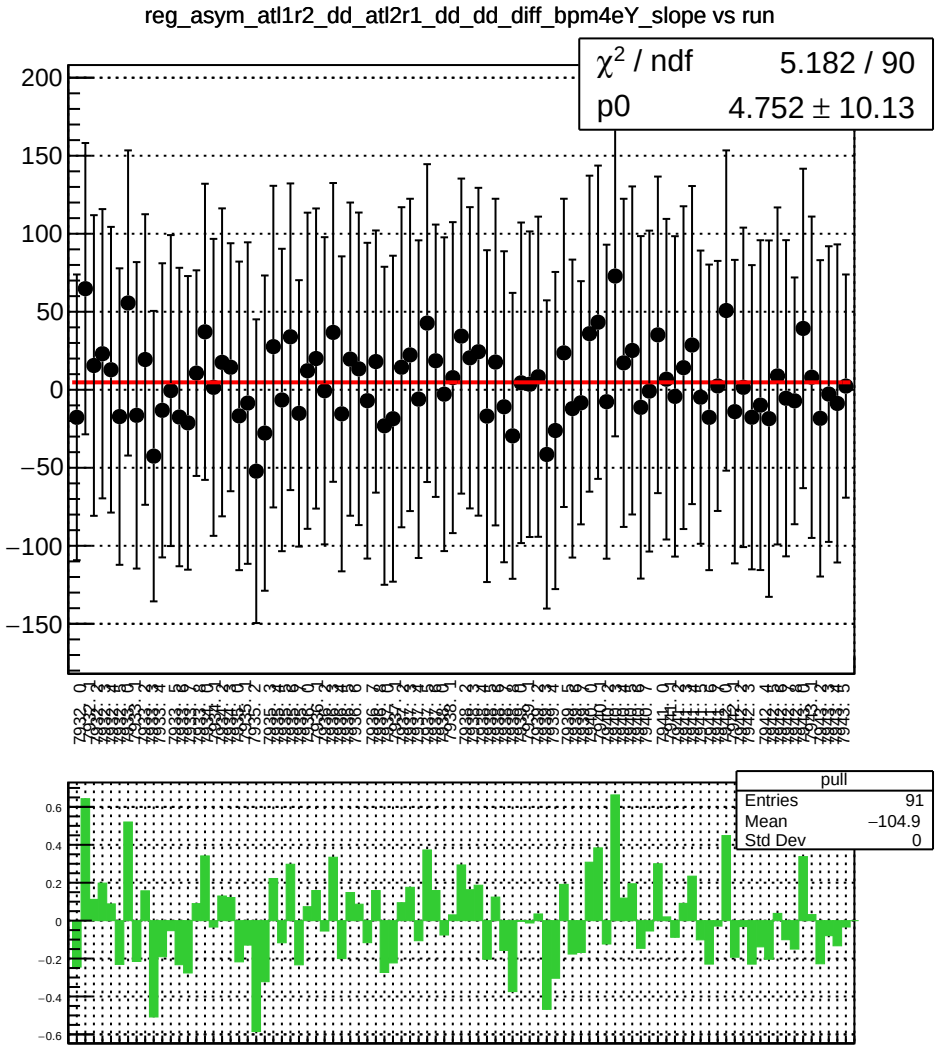

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5.255 / 90
p0 122.9 ± 0.2842
128
126
124
122
120
118
pull
Entries 91
Mean −35.68
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.005971
Std Dev 0.2402
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

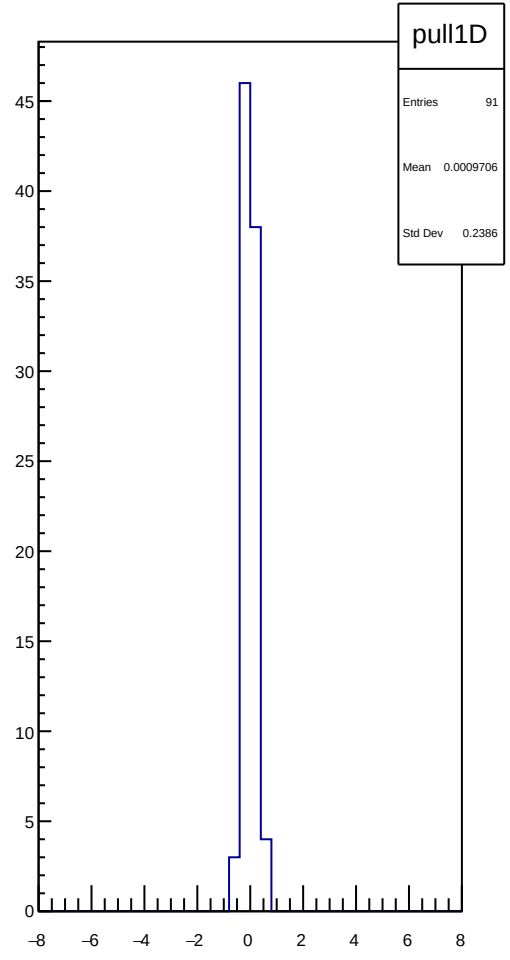

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 10.95 / 90
p0 122.9 ± 8.437
pull
Entries 91
Mean −78.91
Std Dev 0

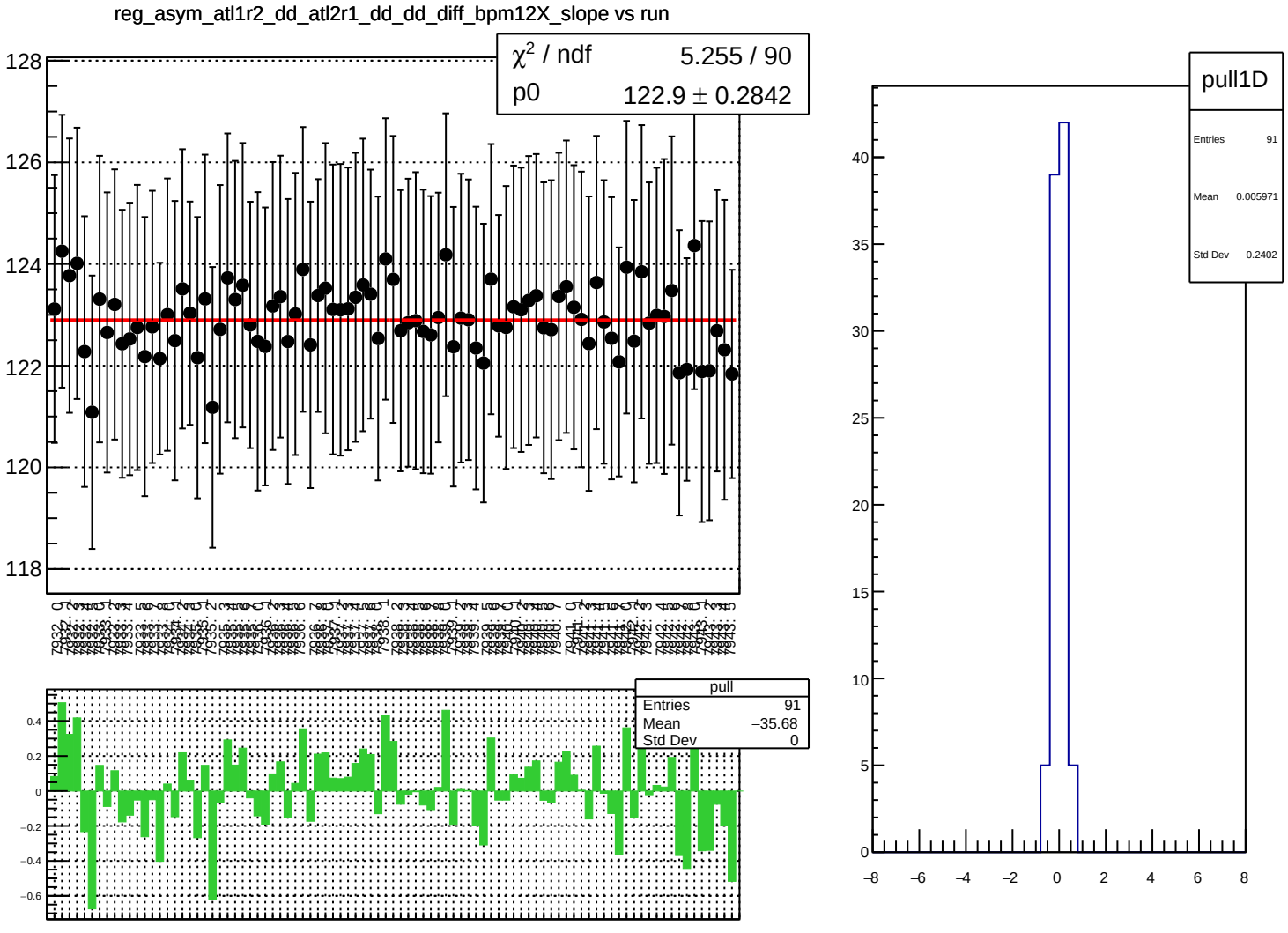

pull1D
Entries 91
Mean −0.01487
Std Dev 0.3466

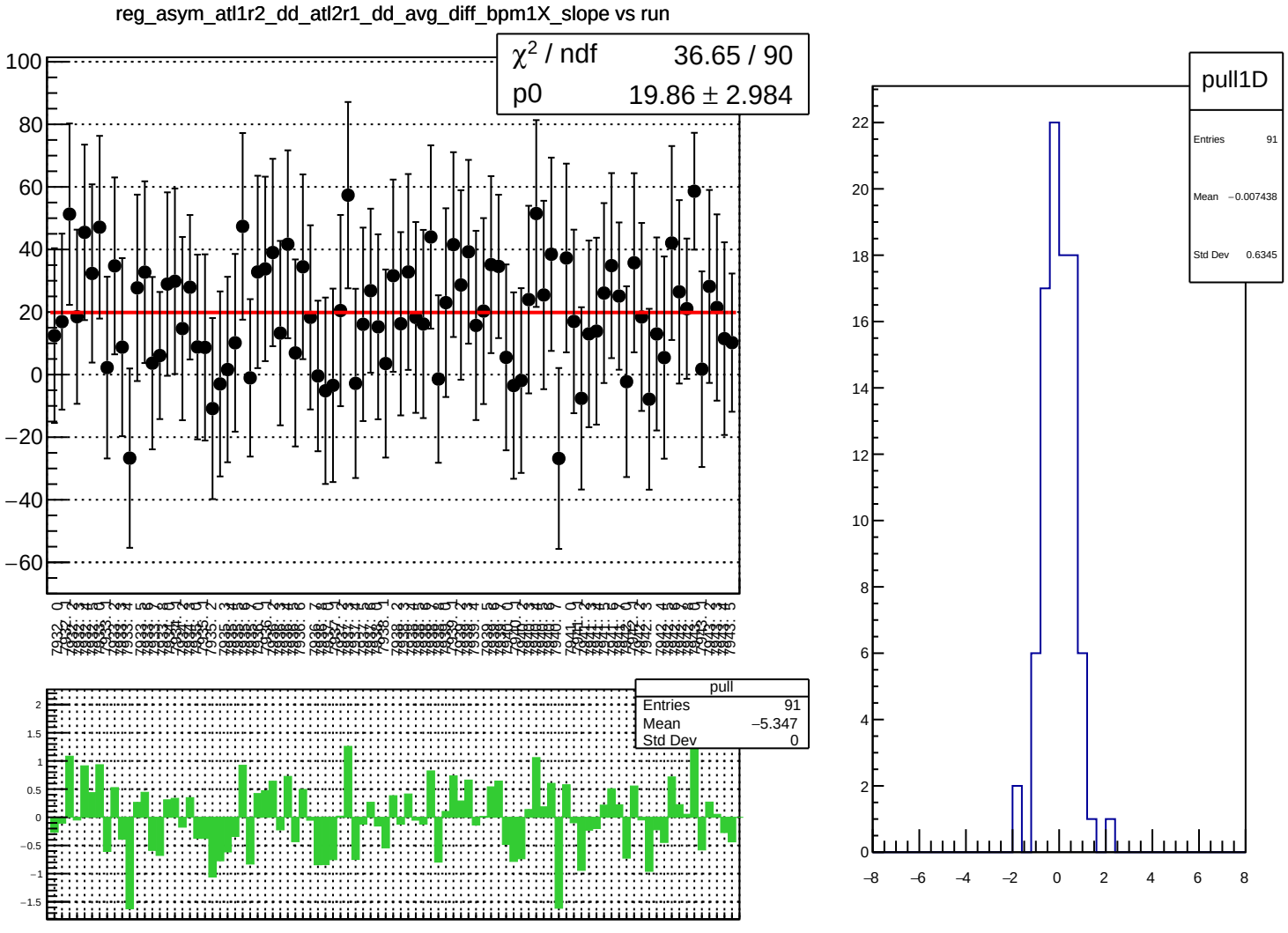

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.036 / 90
p0 −46.11 ± 8.788
pull
Entries 91
Mean −395.2
Std Dev 0
pull1D
Entries 91
Mean −0.0007564
Std Dev 0.2352

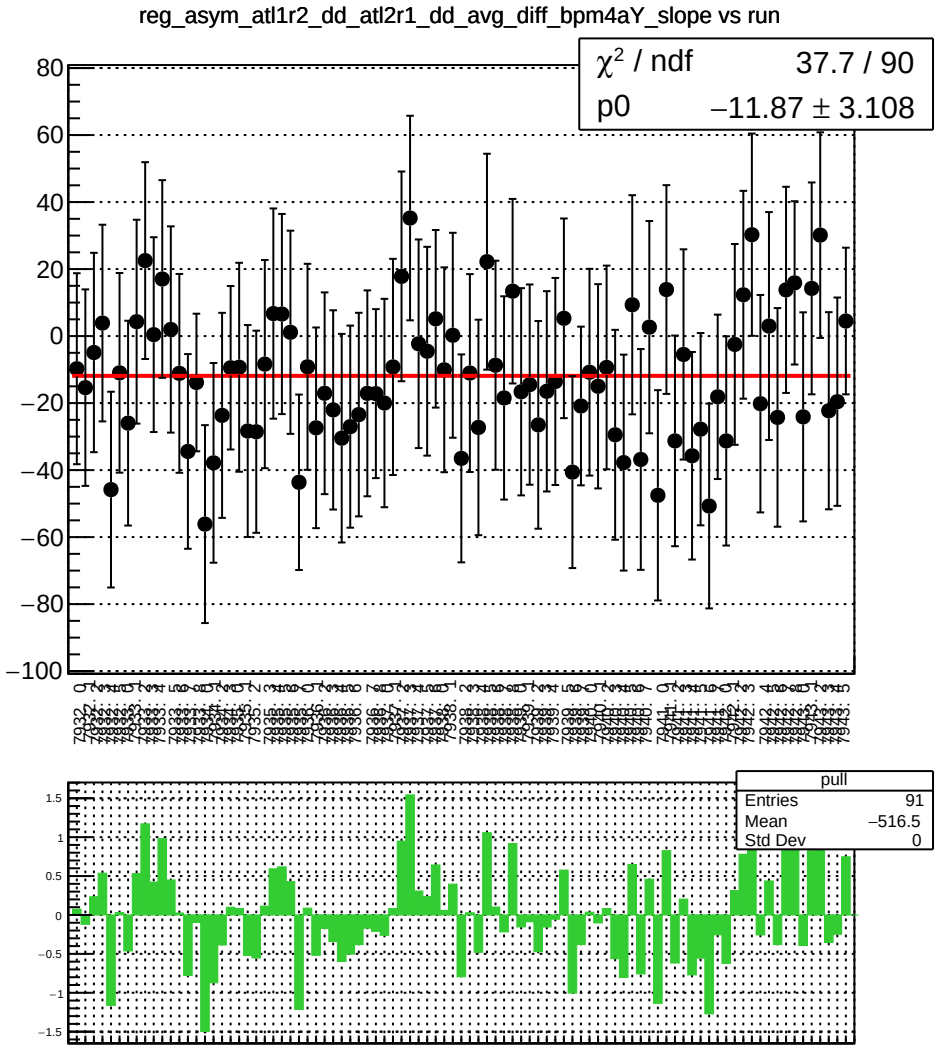

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.14 / 90
p0 −126.5 ± 7.591
pull
Entries 91
Mean −66.11
Std Dev 0
pull1D
Entries 91
Mean 0.01634
Std Dev 0.3496

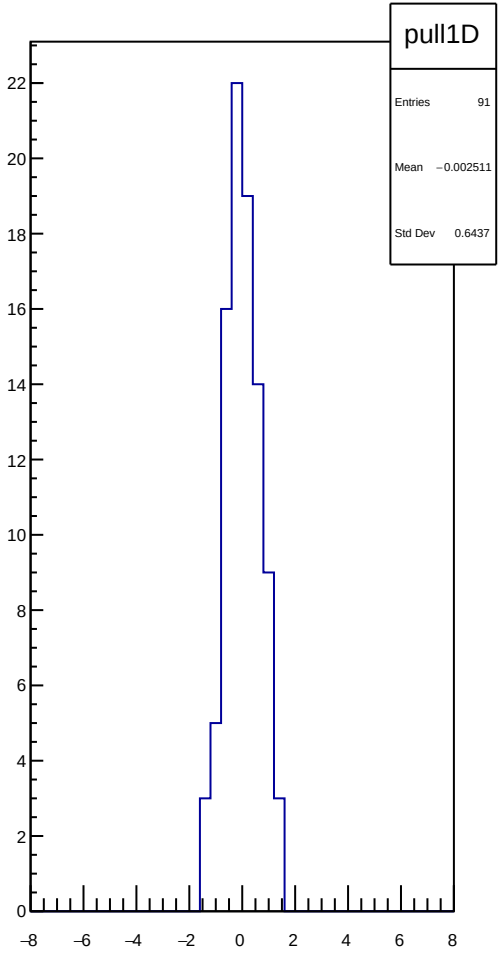

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.182 / 90
p0 4.752 ± 10.13
pull
Entries 91
Mean −104.9
Std Dev 0

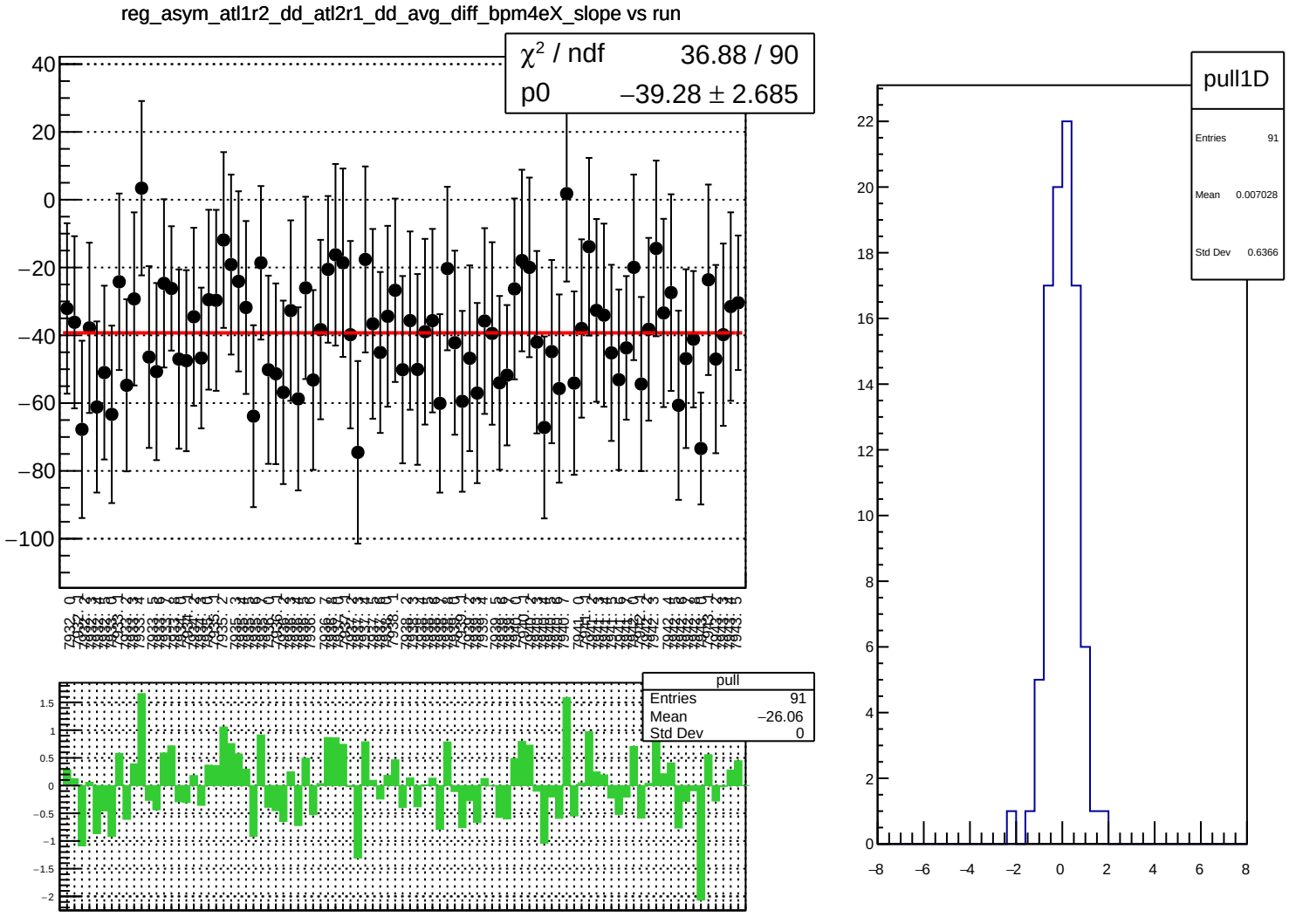

pull1D
Entries 91
Mean 0.0009706
Std Dev 0.2386

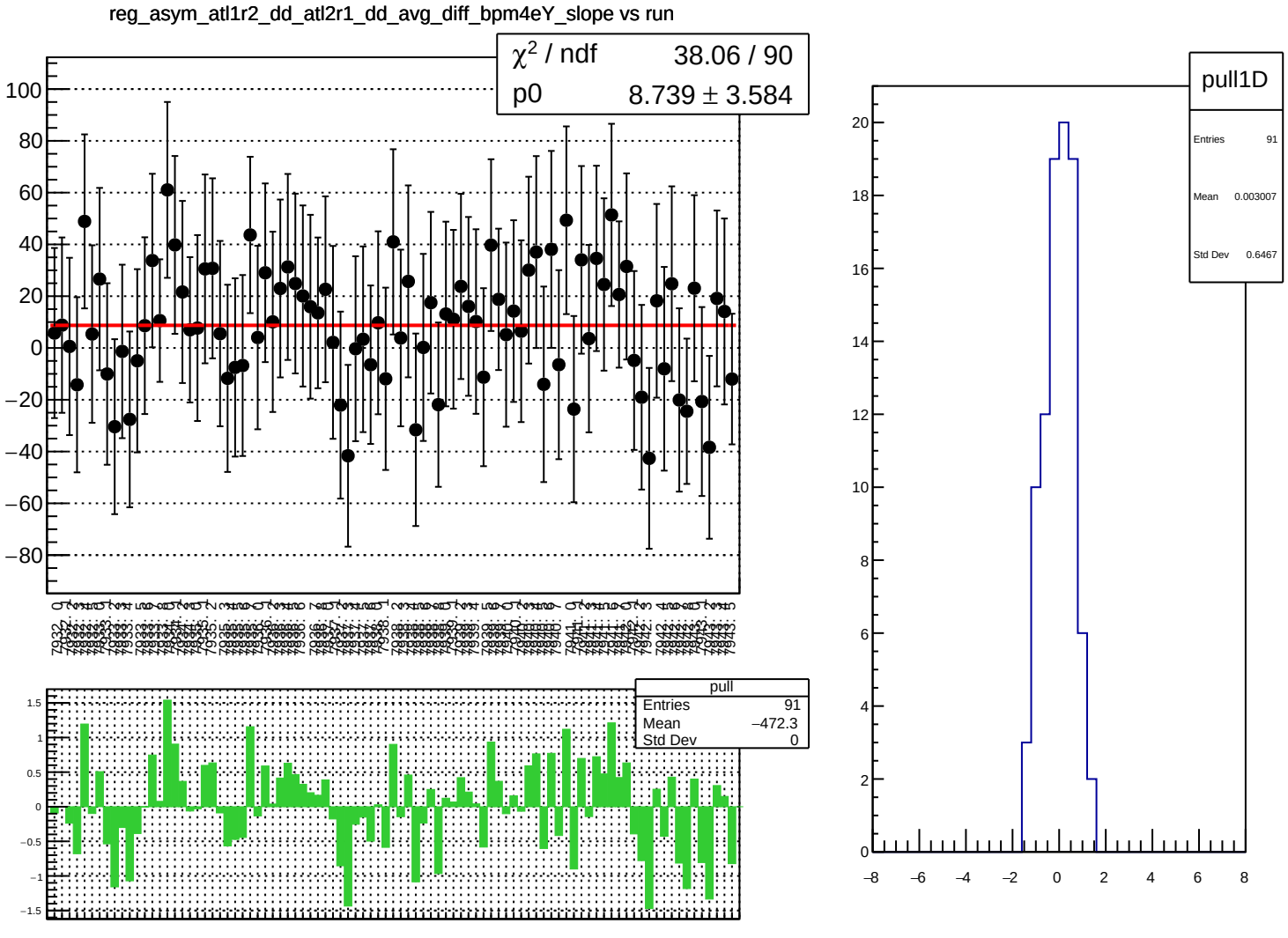

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 5.255 / 90
p0 122.9 ± 0.2842
128
126
124
122
120
118
pull
Entries 91
Mean −35.68
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.005971
Std Dev 0.2402
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

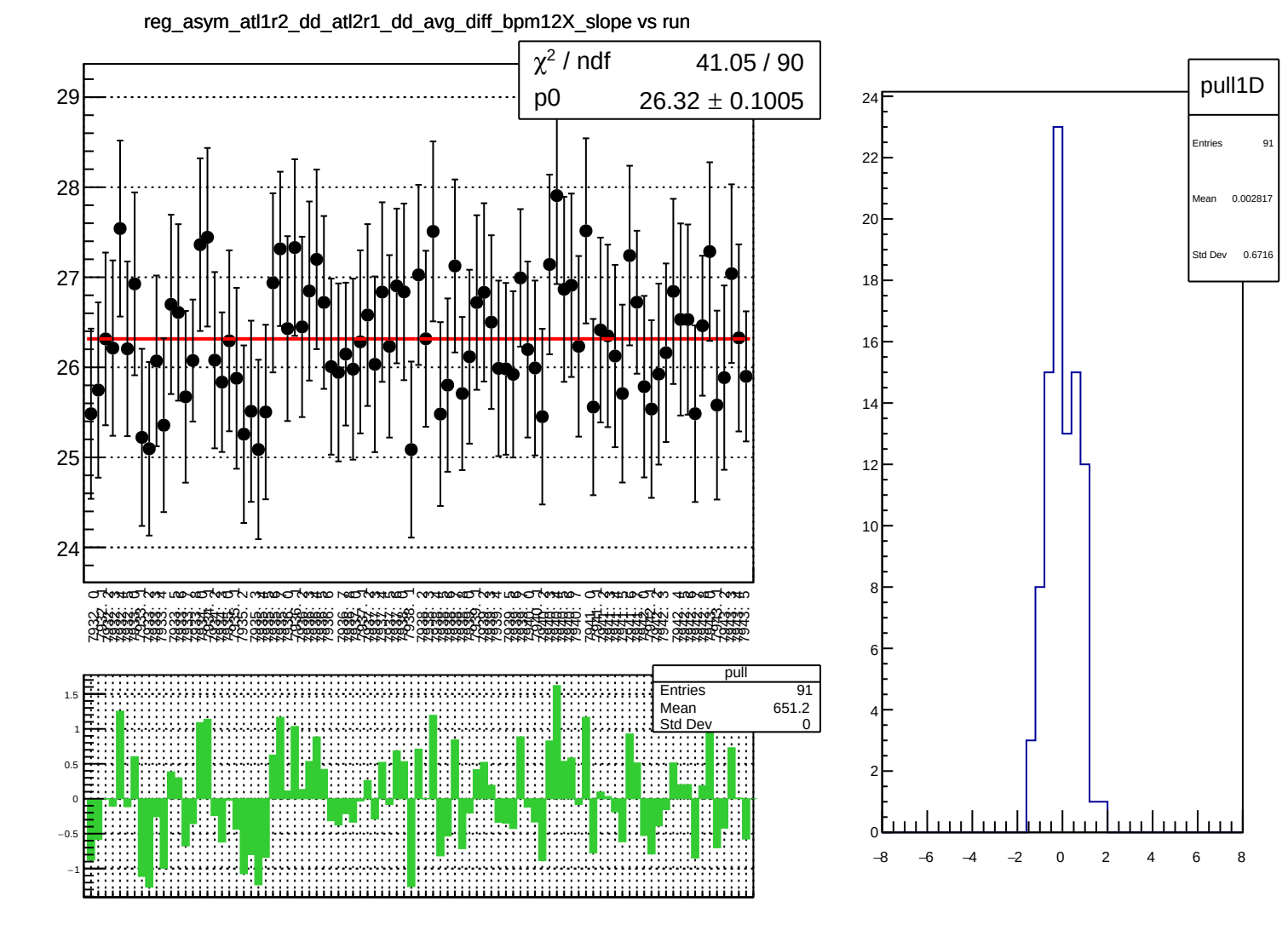

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 36.65 / 90
p0 19.86 ± 2.984
pull
Entries 91
Mean −5.347
Std Dev 0
pull1D
Entries 91
Mean −0.007438
Std Dev 0.6345

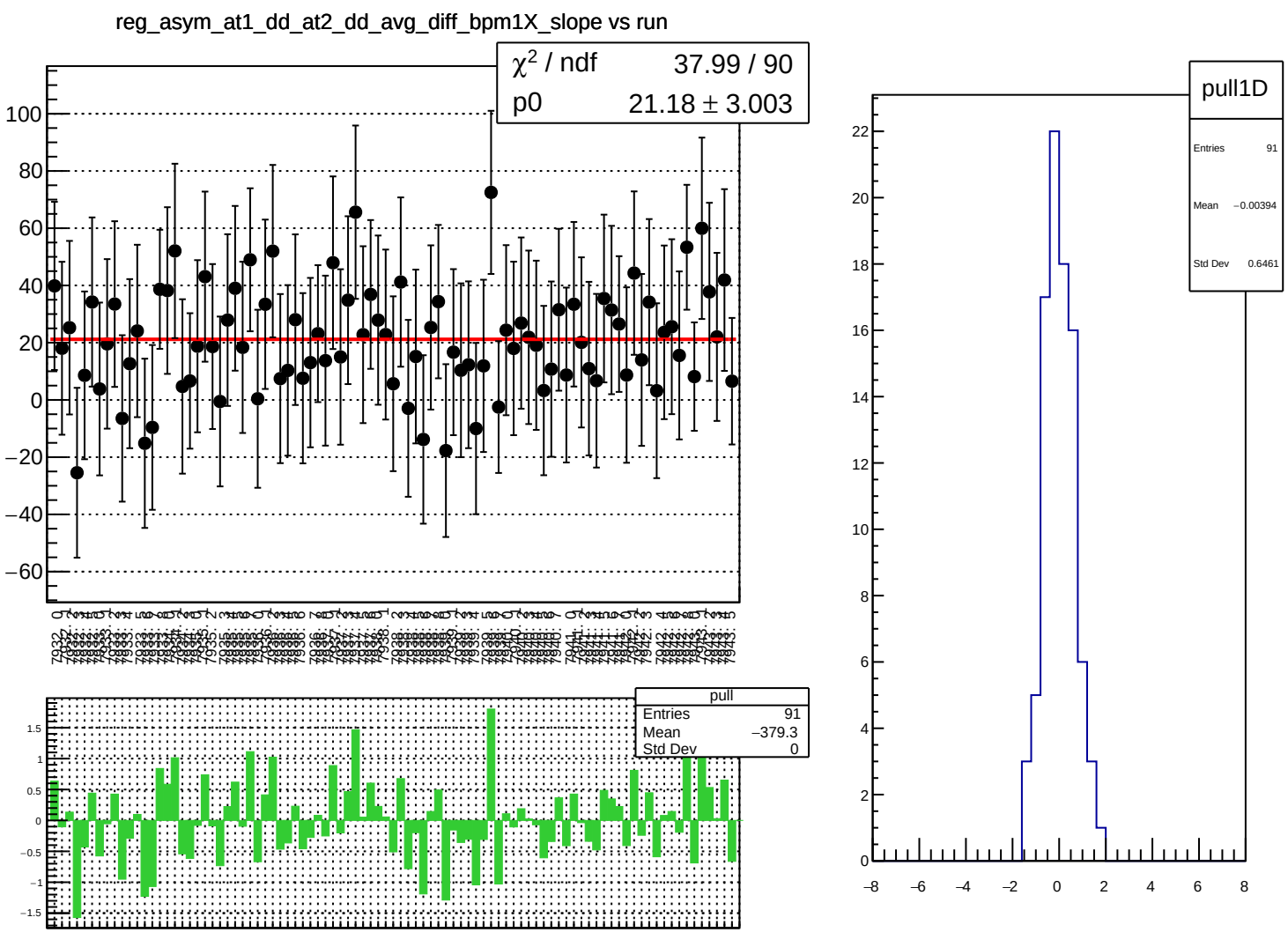

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.7 / 90
p0 −11.87 ± 3.108
pull
Entries 91
Mean −516.5
Std Dev 0

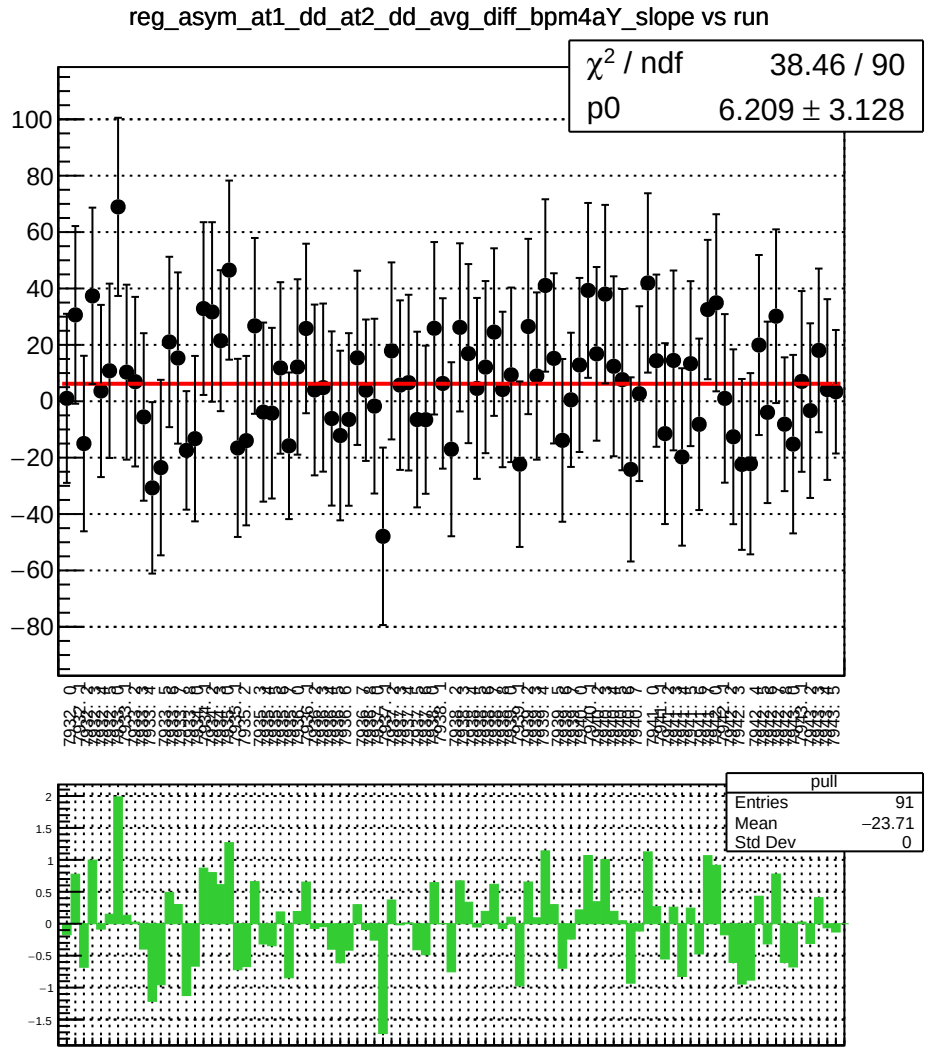

pull1D
Entries 91
Mean −0.002511
Std Dev 0.6437

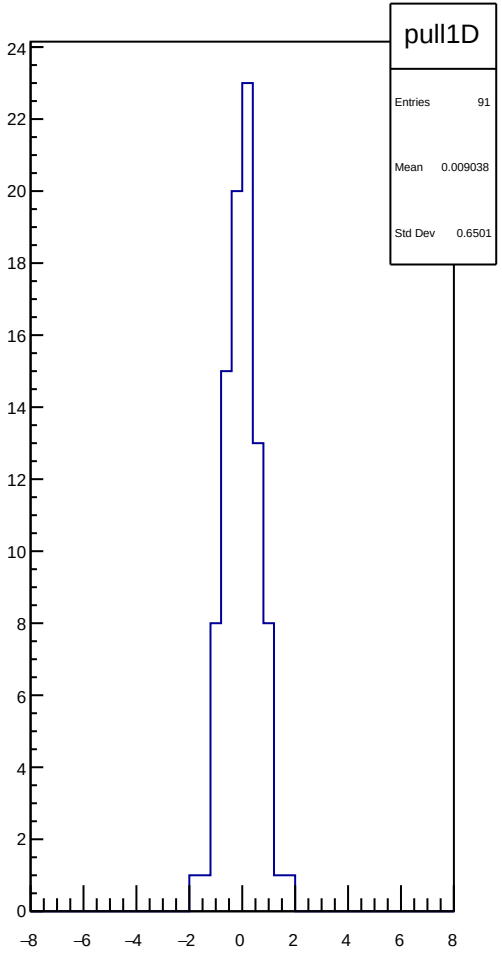

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.88 / 90
p0 −39.28 ± 2.685
pull
Entries 91
Mean −26.06
Std Dev 0
pull1D
Entries 91
Mean 0.007028
Std Dev 0.6366

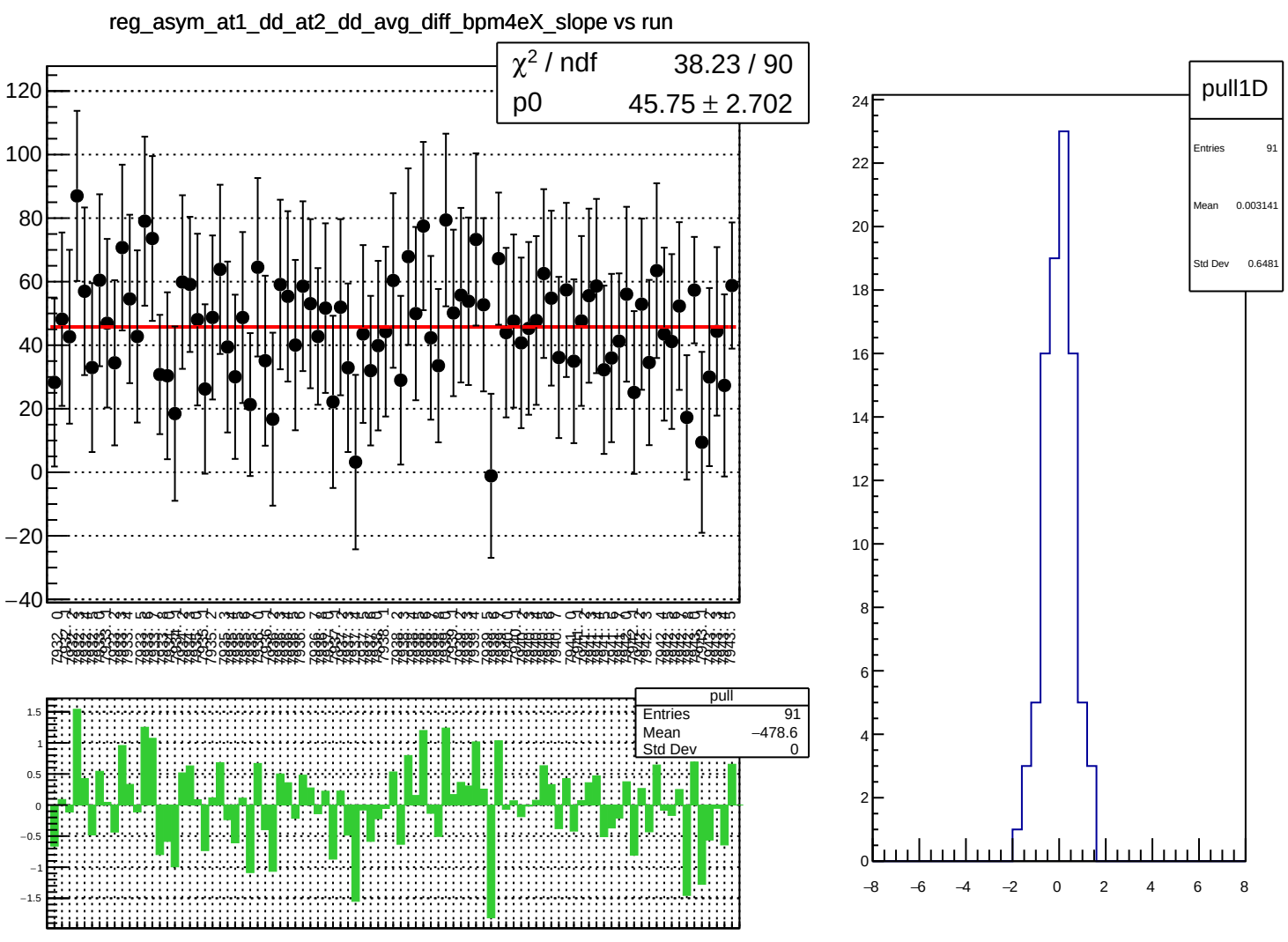

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.06 / 90
p0 8.739 ± 3.584
pull
Entries 91
Mean −472.3
Std Dev 0
pull1D
Entries 91
Mean 0.003007
Std Dev 0.6467

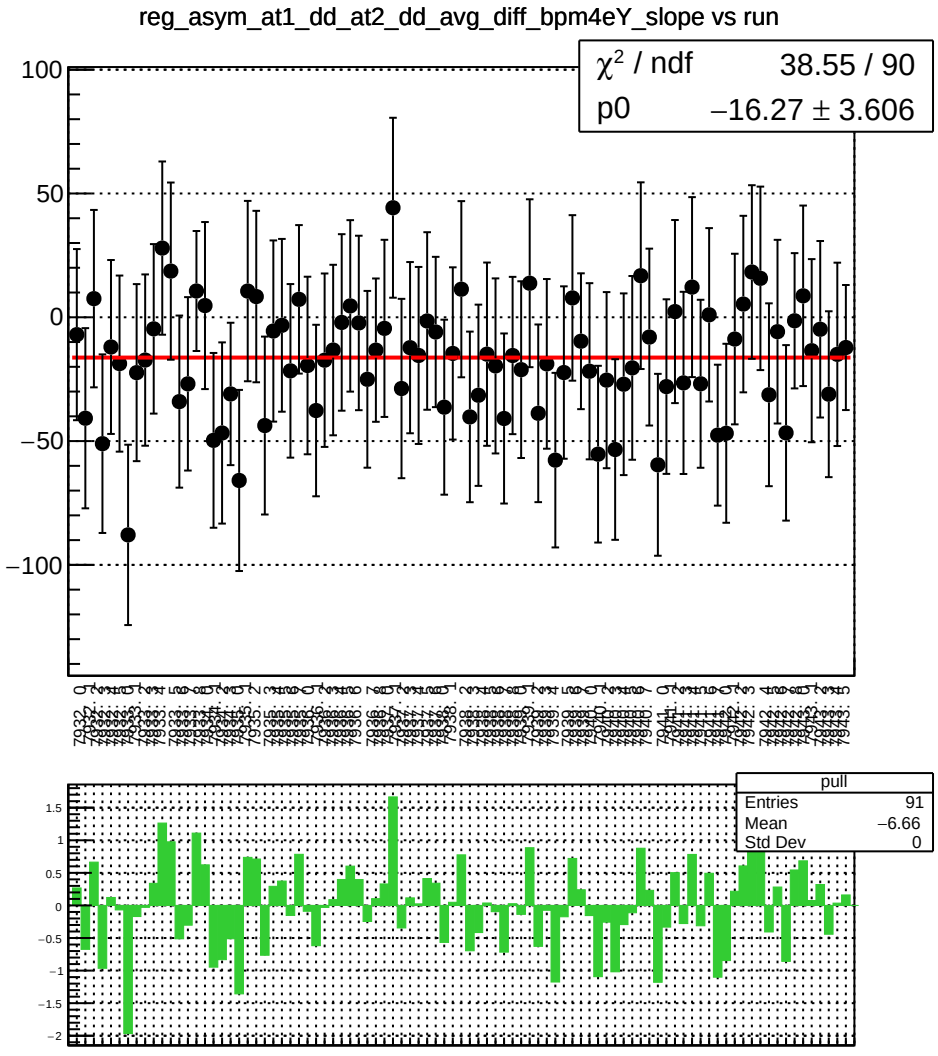

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 41.05 / 90
p0 26.32 ± 0.1005
pull
Entries 91
Mean 651.2
Std Dev 0
pull1D
Entries 91
Mean 0.002817
Std Dev 0.6716

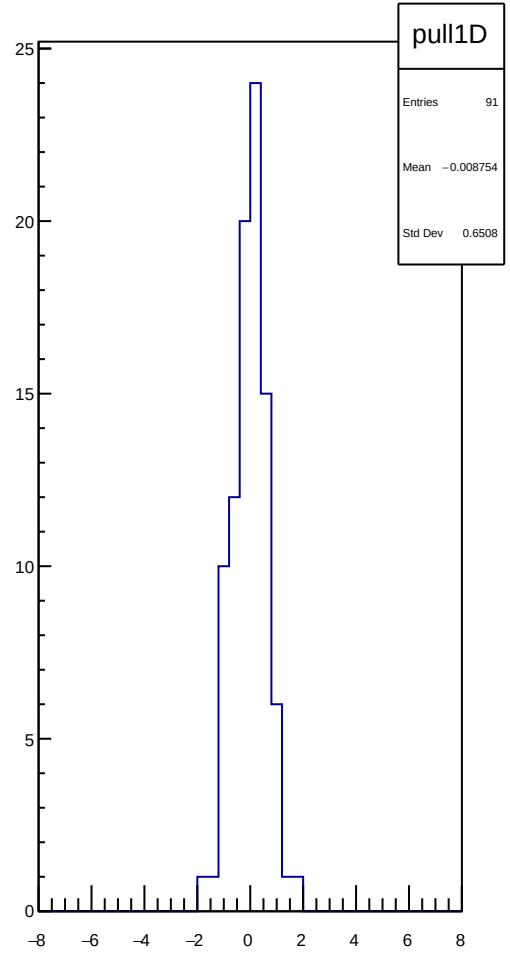

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 37.99 / 90
p0 21.18 ± 3.003
pull
Entries 91
Mean −379.3
Std Dev 0
pull1D
Entries 91
Mean −0.00394
Std Dev 0.6461

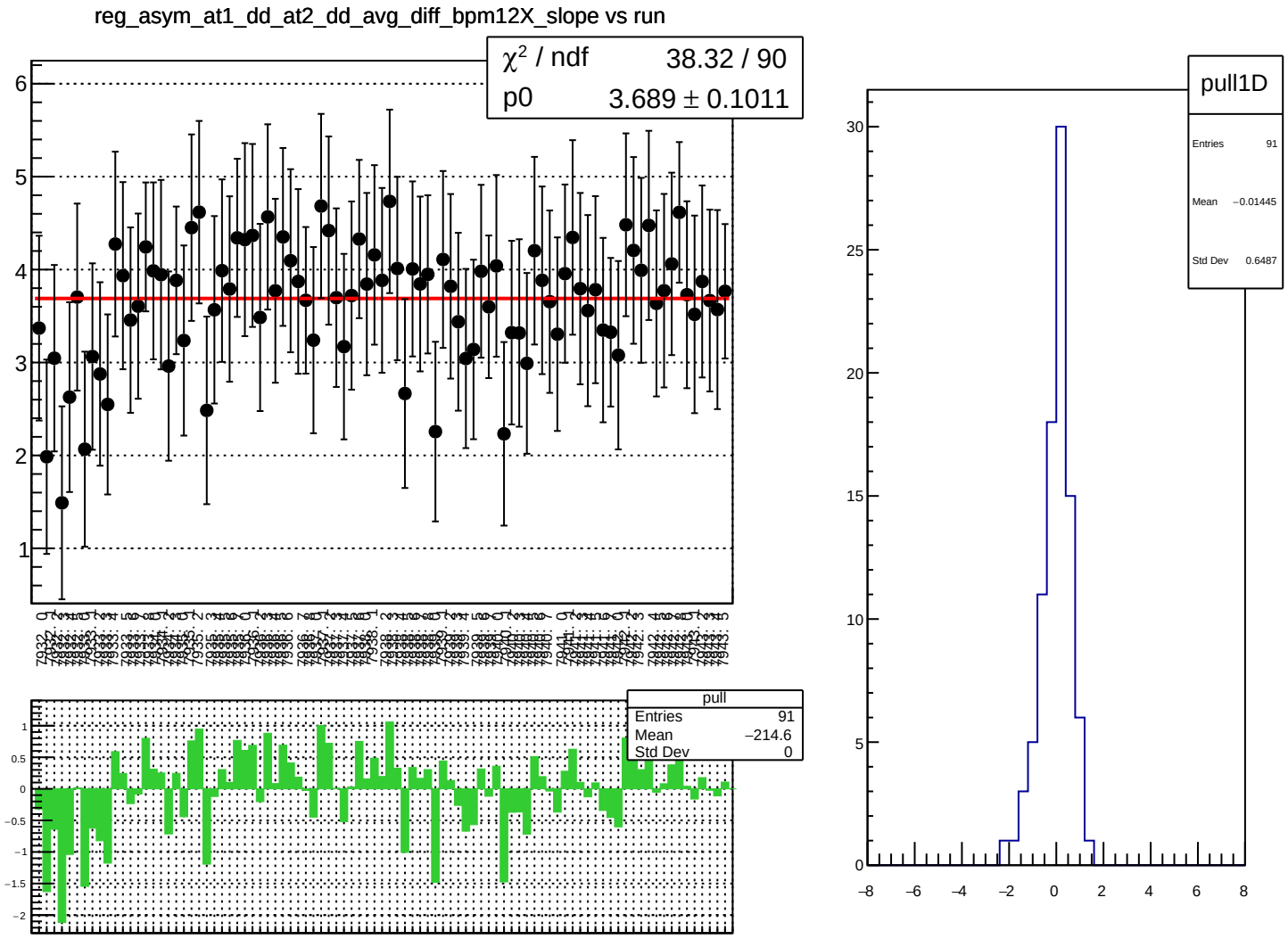

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.46 / 90
p0 6.209 ± 3.128
pull
Entries 91
Mean −23.71
Std Dev 0

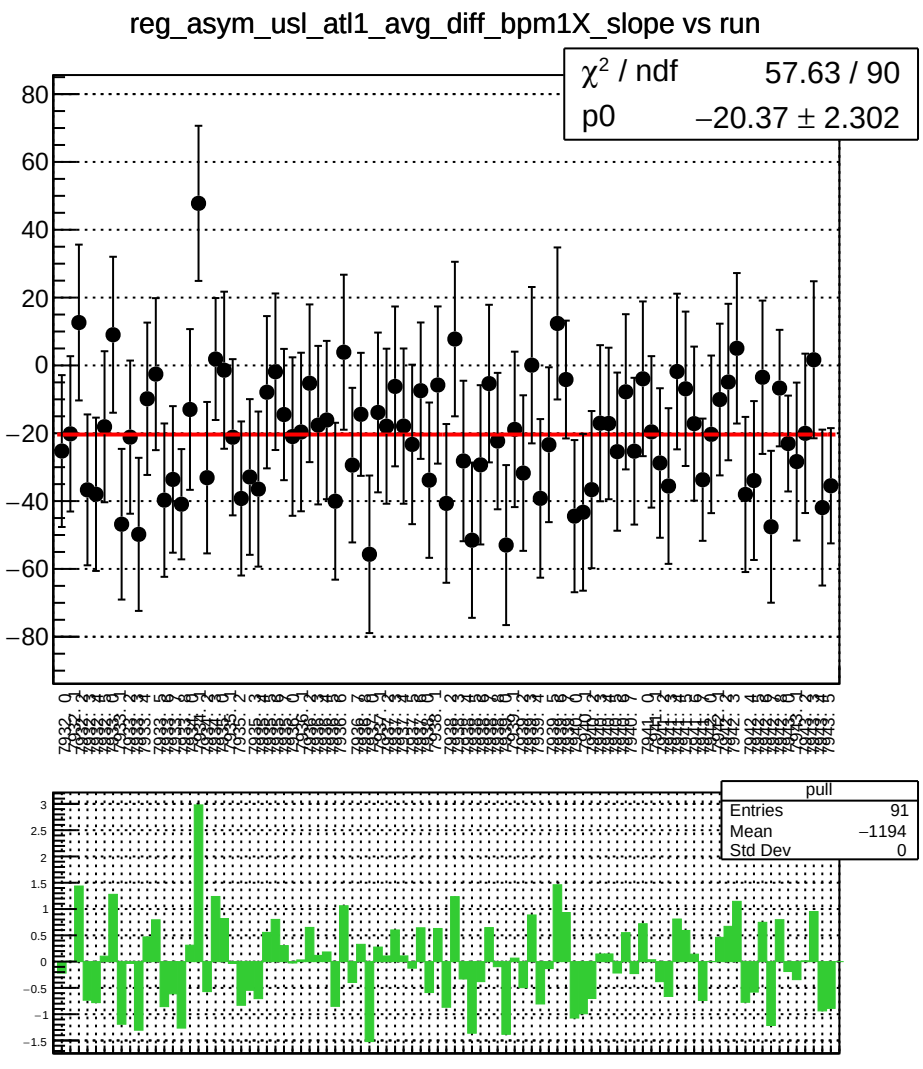

pull1D
Entries 91
Mean 0.009038
Std Dev 0.6501

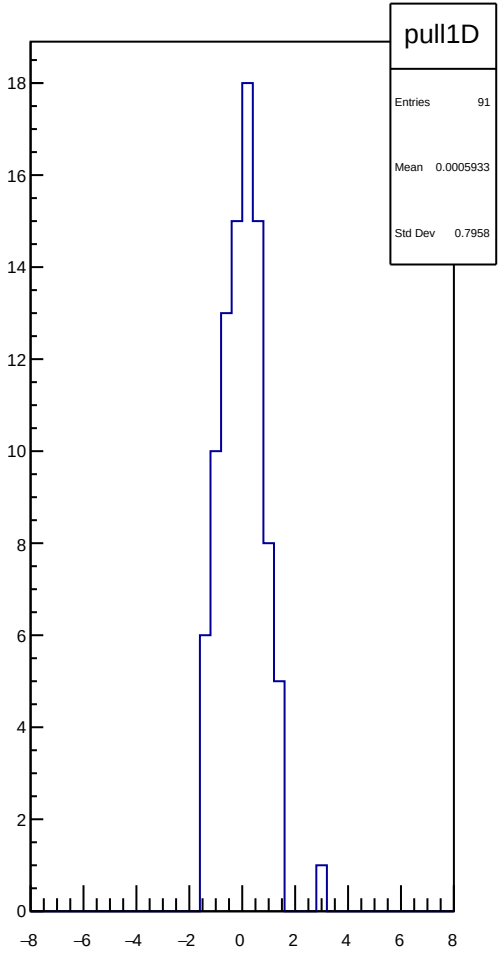

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.23 / 90
p0 45.75 ± 2.702
pull
Entries 91
Mean −478.6
Std Dev 0
pull1D
Entries 91
Mean 0.003141
Std Dev 0.6481

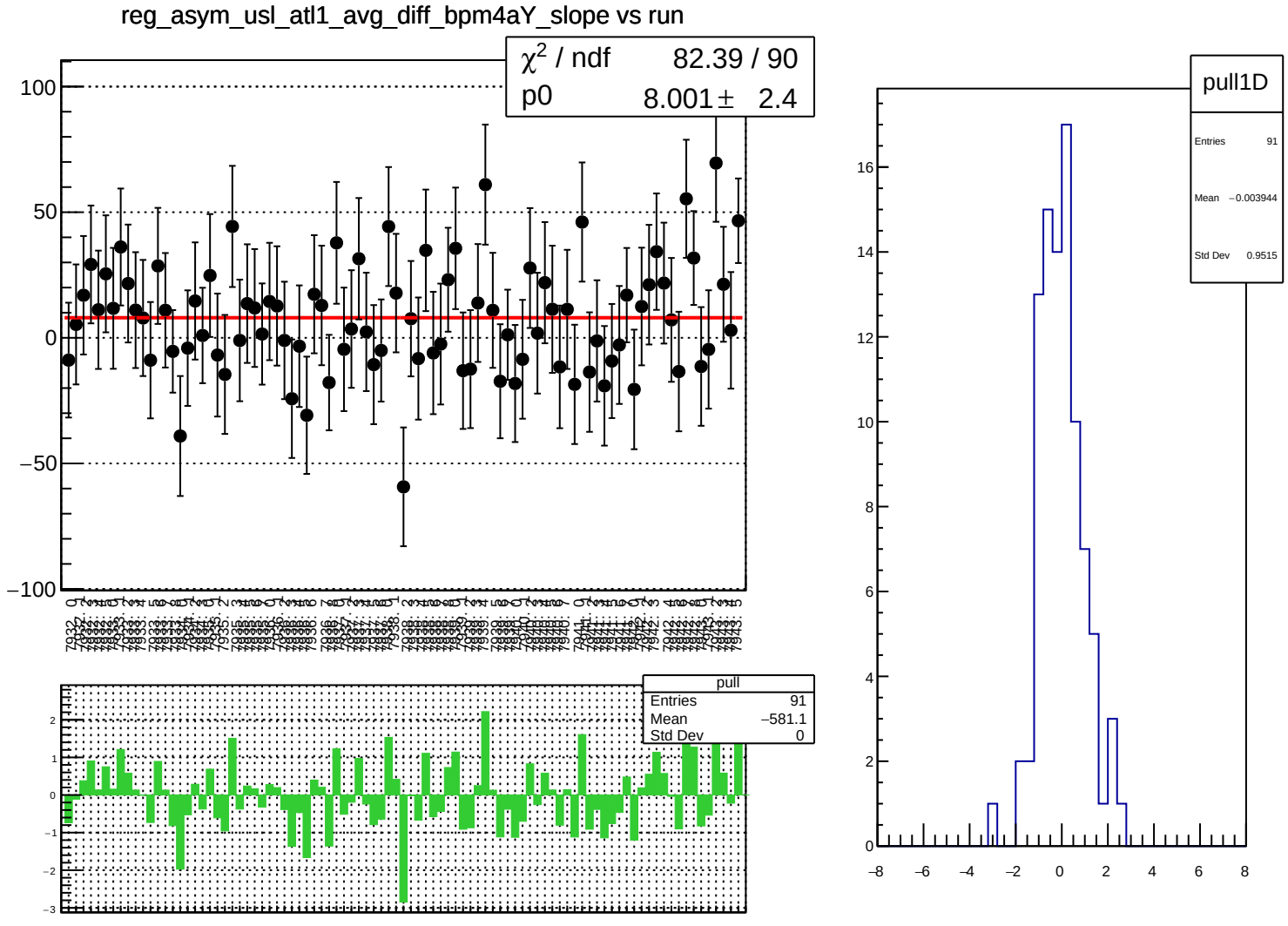

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.55 / 90
p0 −16.27 ± 3.606
pull
Entries 91
Mean −6.66
Std Dev 0

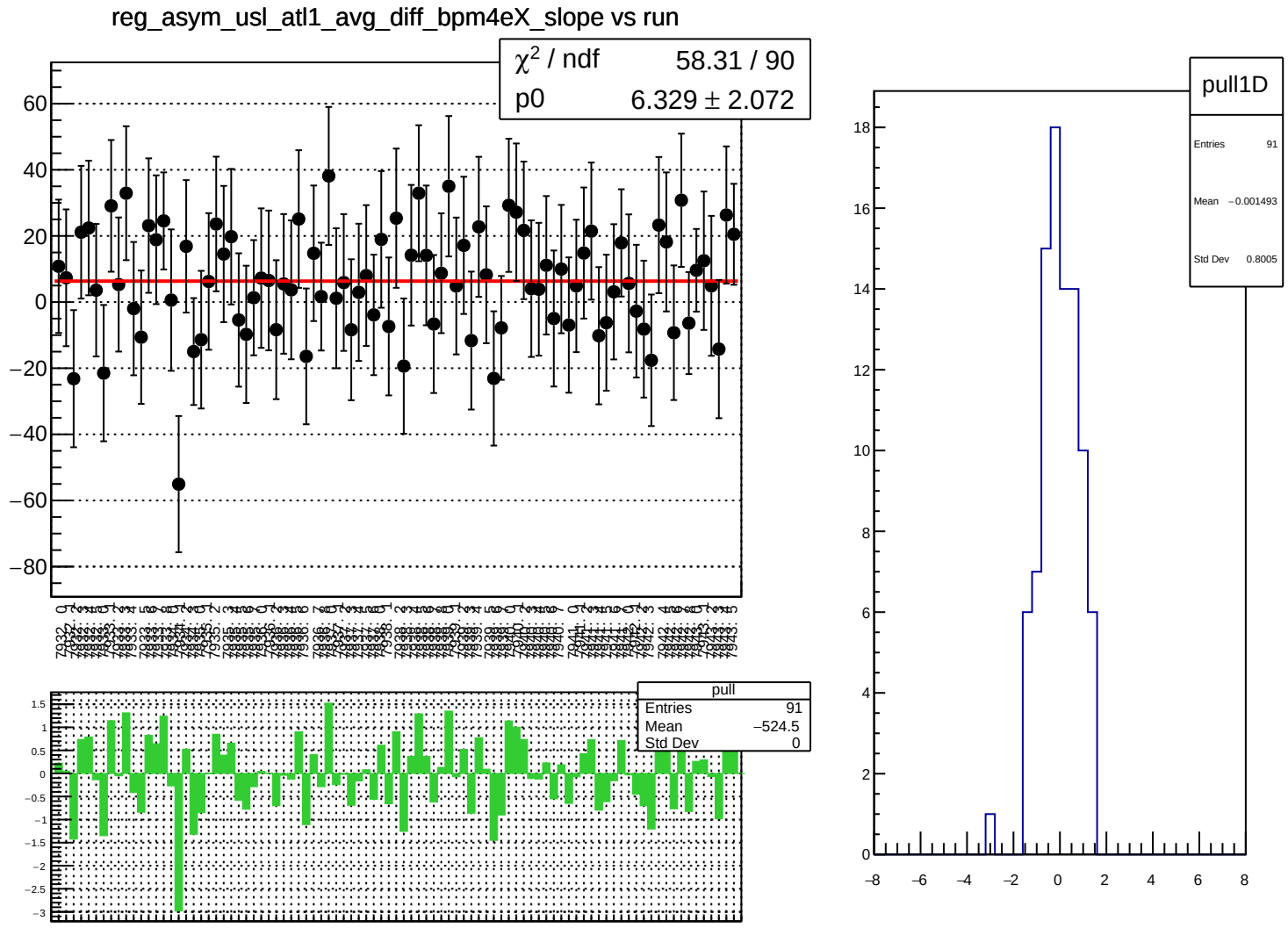

pull1D
Entries 91
Mean −0.008754
Std Dev 0.6508

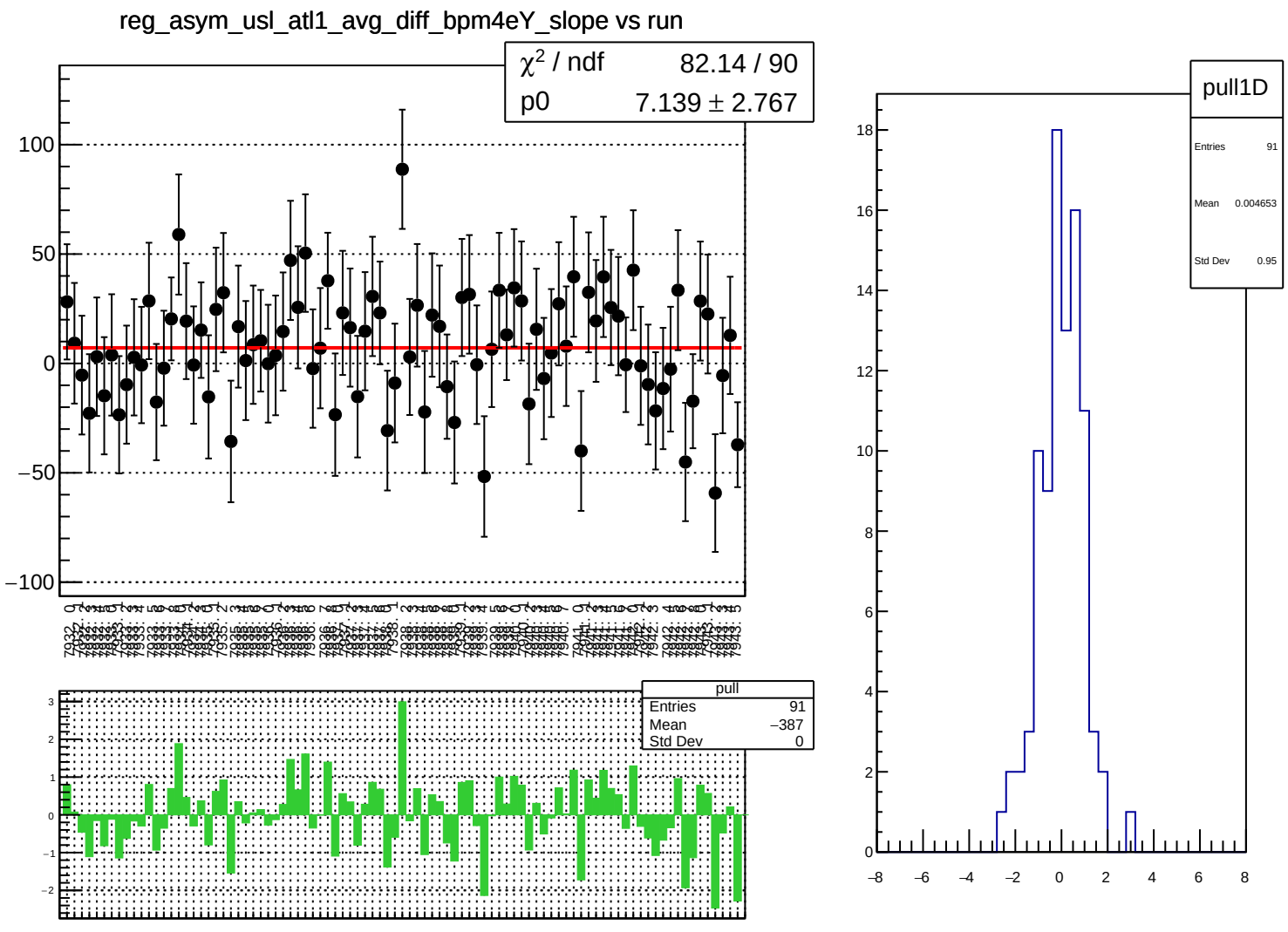

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 38.32 / 90
p0 3.689 ± 0.1011
pull
Entries 91
Mean −214.6
Std Dev 0
pull1D
Entries 91
Mean −0.01445
Std Dev 0.6487

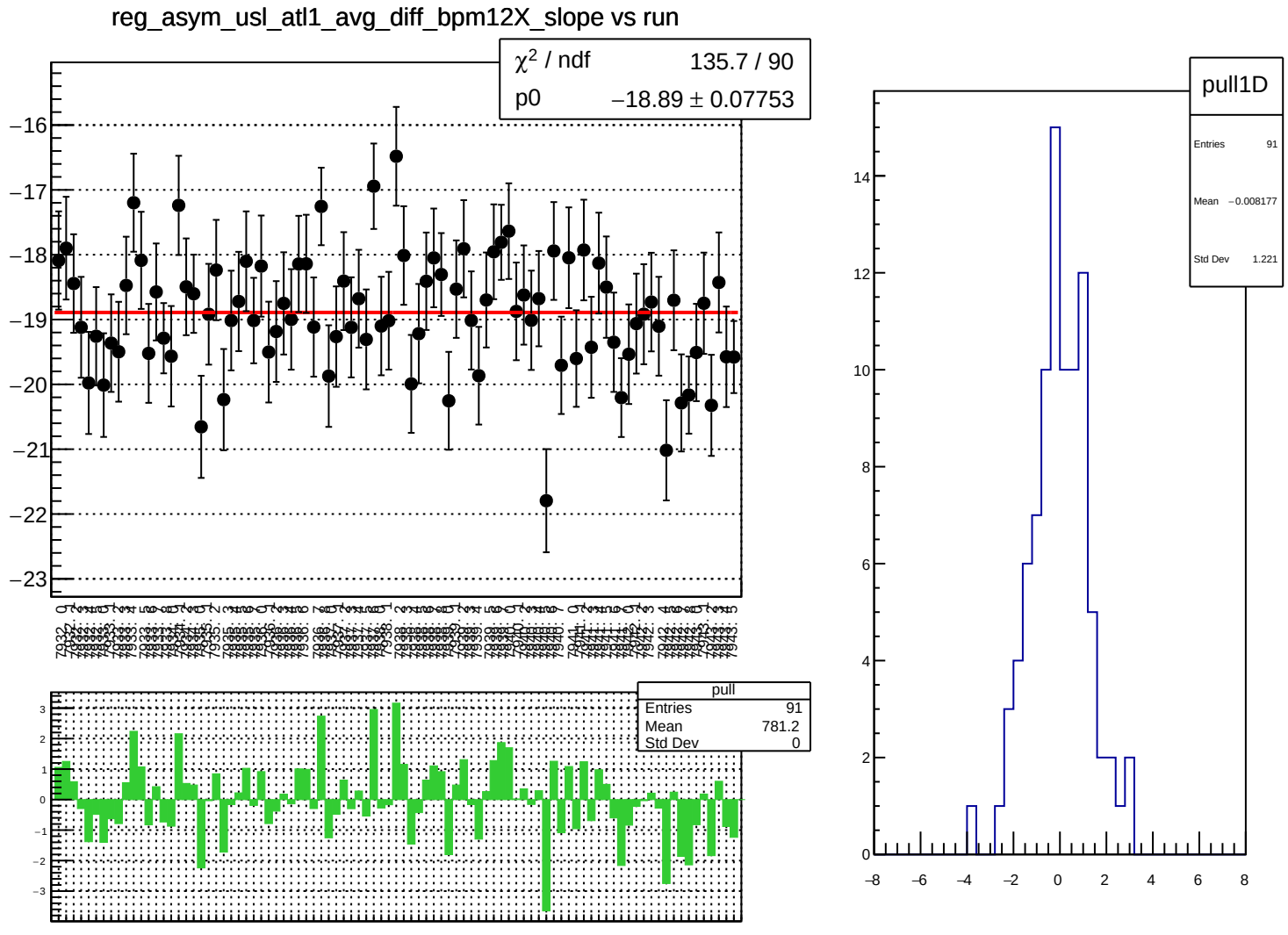

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 57.63 / 90
p0 −20.37 ± 2.302
pull
Entries 91
Mean −1194
Std Dev 0

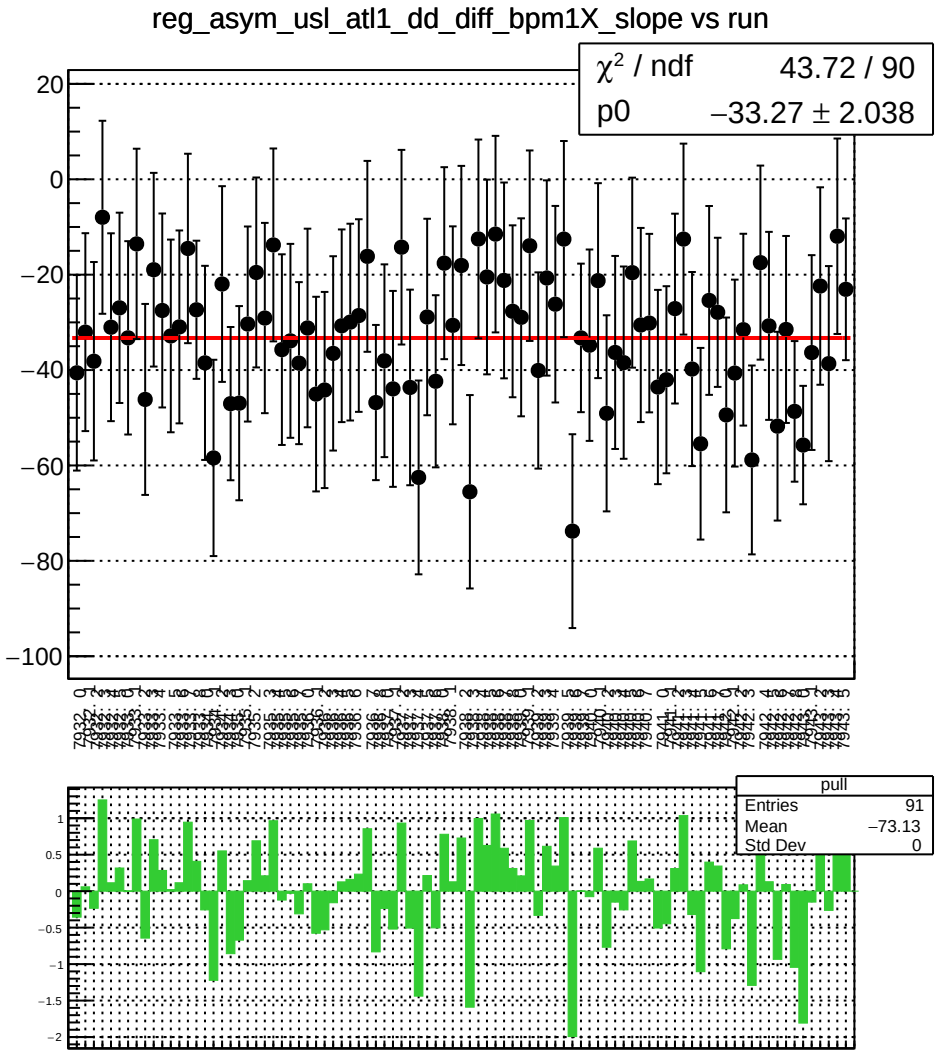

pull1D
Entries 91
Mean 0.0005933
Std Dev 0.7958

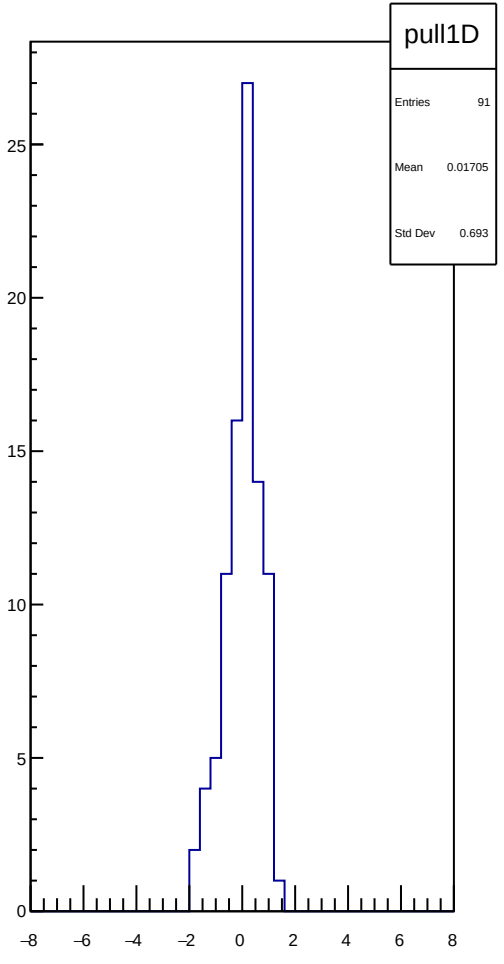

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.39 / 90
p0 8.001 ± 2.4
pull
Entries 91
Mean −581.1
Std Dev 0
pull1D
Entries 91
Mean −0.003944
Std Dev 0.9515

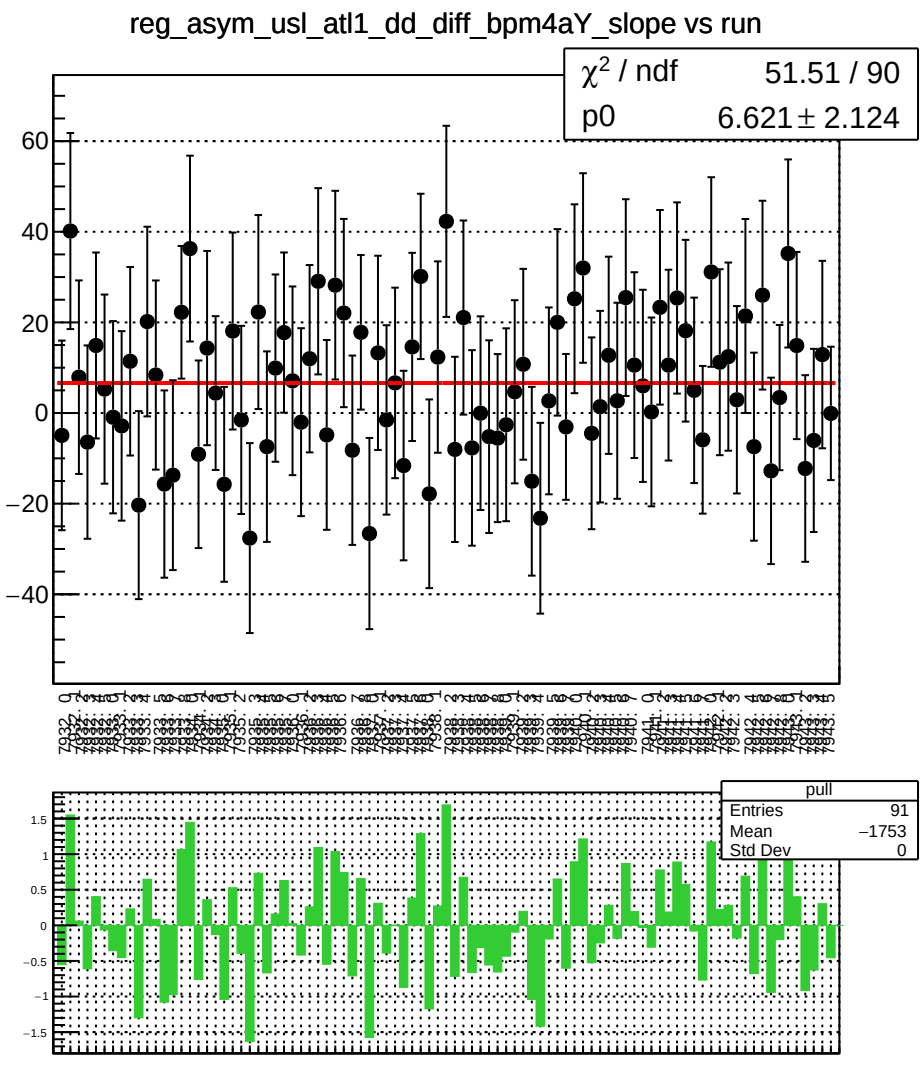

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.31 / 90
p0 6.329 ± 2.072
pull
Entries 91
Mean −524.5
Std Dev 0
pull1D
Entries 91
Mean −0.001493
Std Dev 0.8005

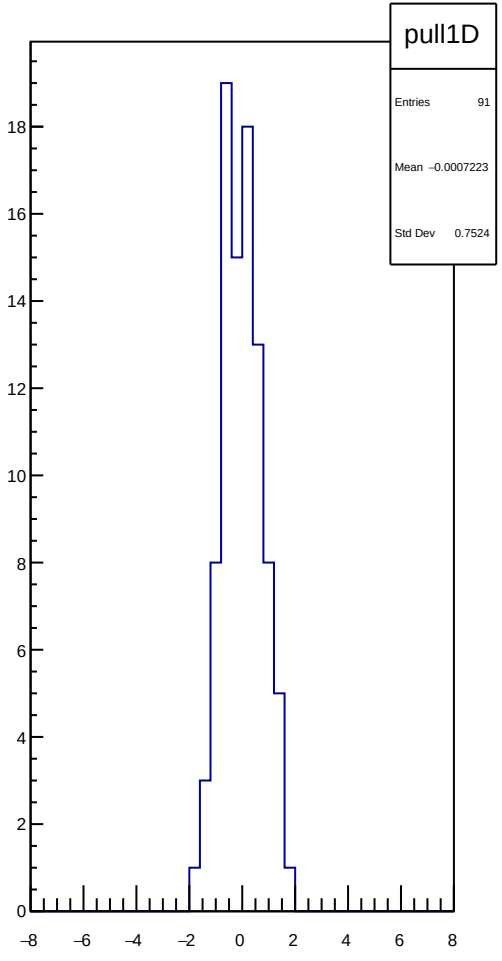

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.14 / 90
p0 7.139 ± 2.767
100
50
0
−50
−100
pull
Entries 91
Mean −387
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.004653
Std Dev 0.95
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

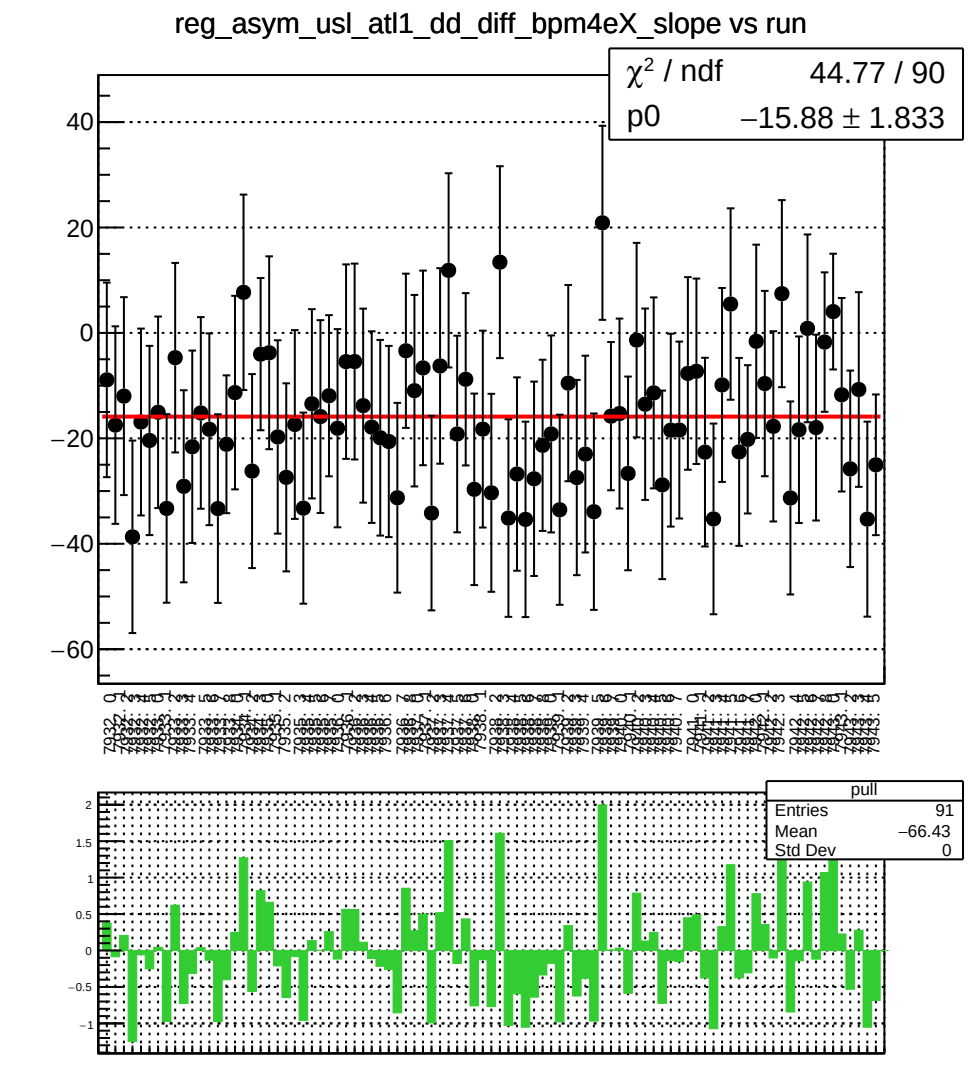

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 135.7 / 90
p0 −18.89 ± 0.07753
pull
Entries 91
Mean 781.2
Std Dev 0
pull1D
Entries 91
Mean −0.008177
Std Dev 1.221

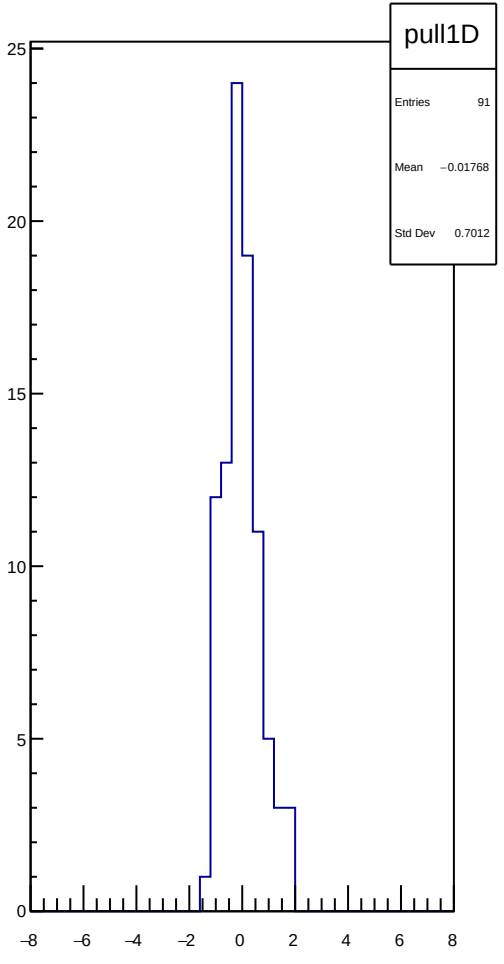

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 43.72 / 90
p0 −33.27 ± 2.038
pull
Entries 91
Mean −73.13
Std Dev 0

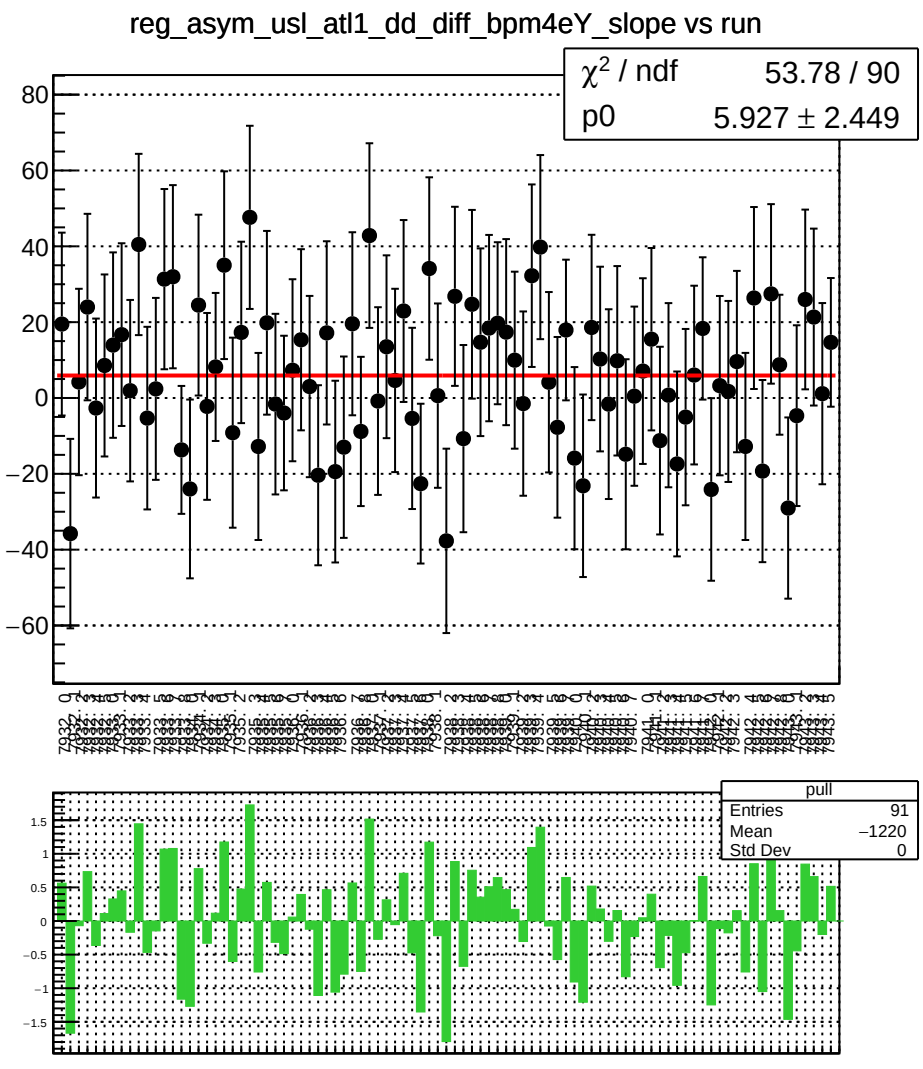

pull1D
Entries 91
Mean 0.01705
Std Dev 0.693

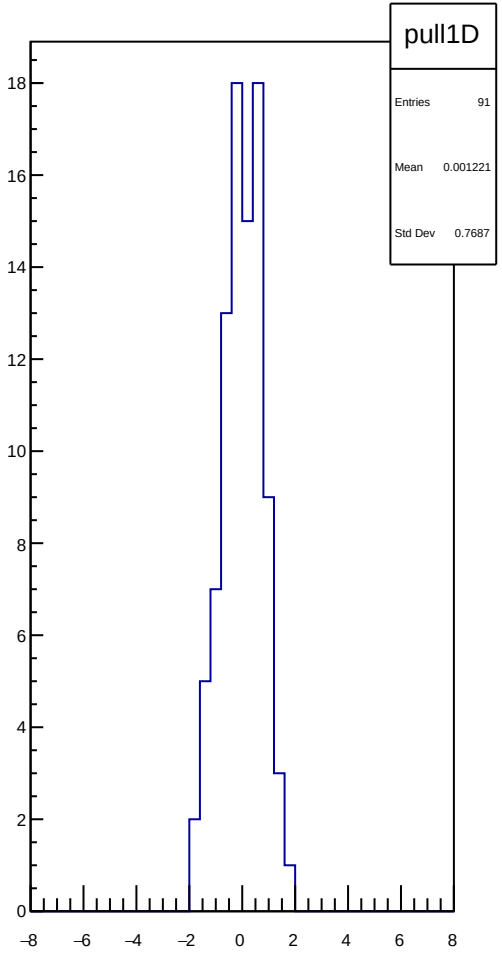

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.51 / 90
p0 6.621 ± 2.124
pull
Entries 91
Mean −1753
Std Dev 0

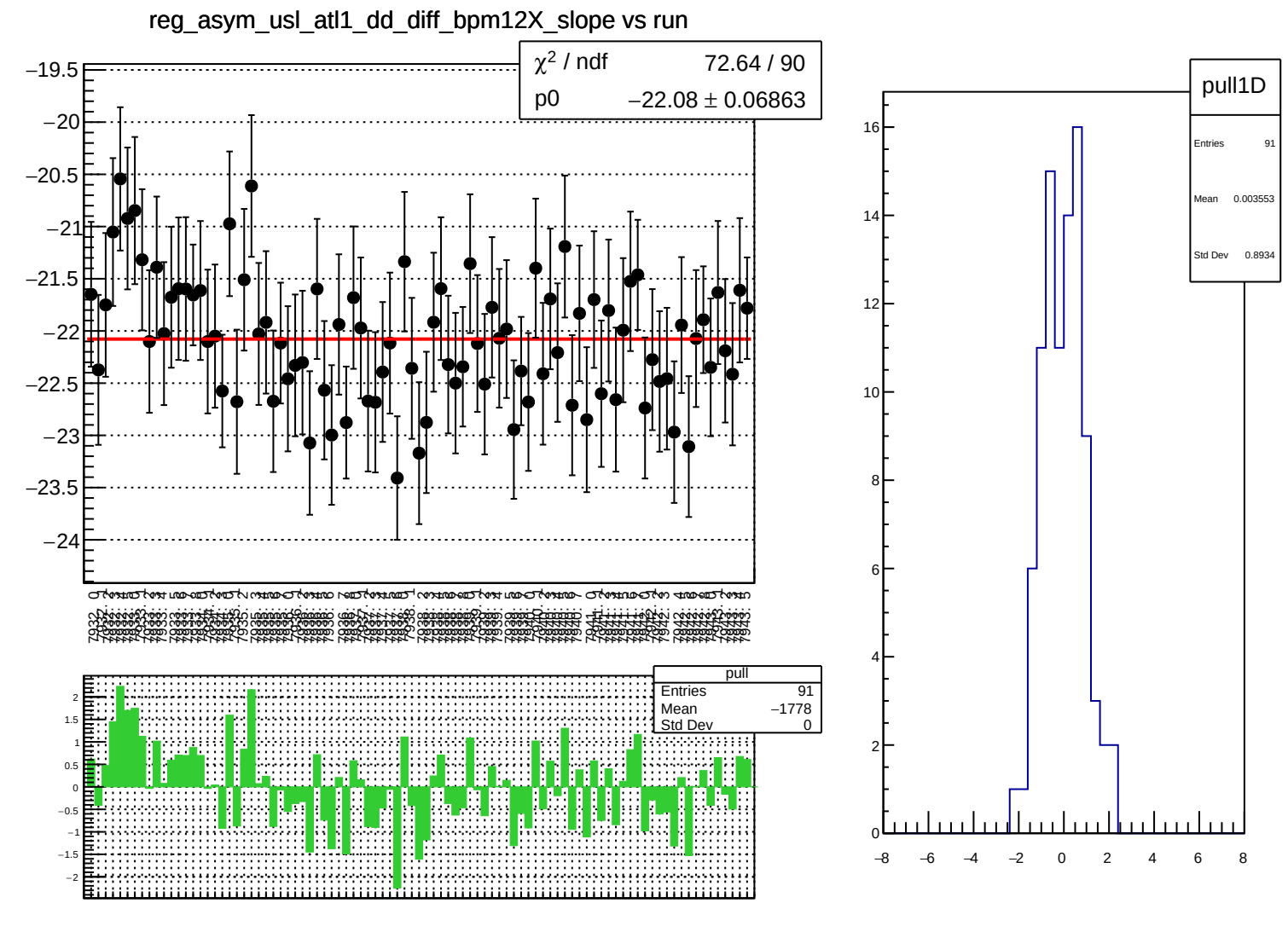

pull1D
Entries 91
Mean −0.0007223
Std Dev 0.7524

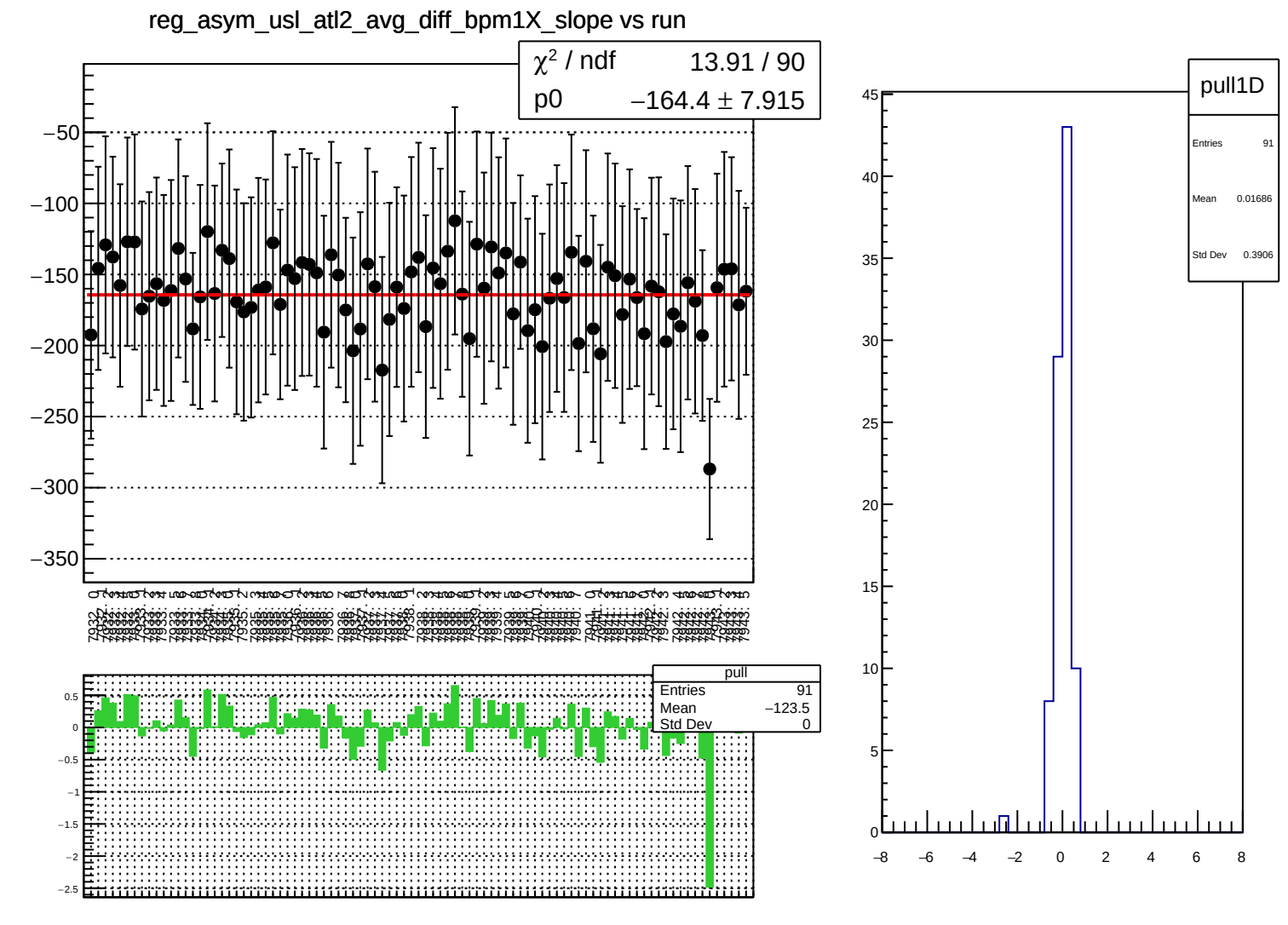

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.77 / 90
p0 −15.88 ± 1.833
pull
Entries 91
Mean −66.43
Std Dev 0

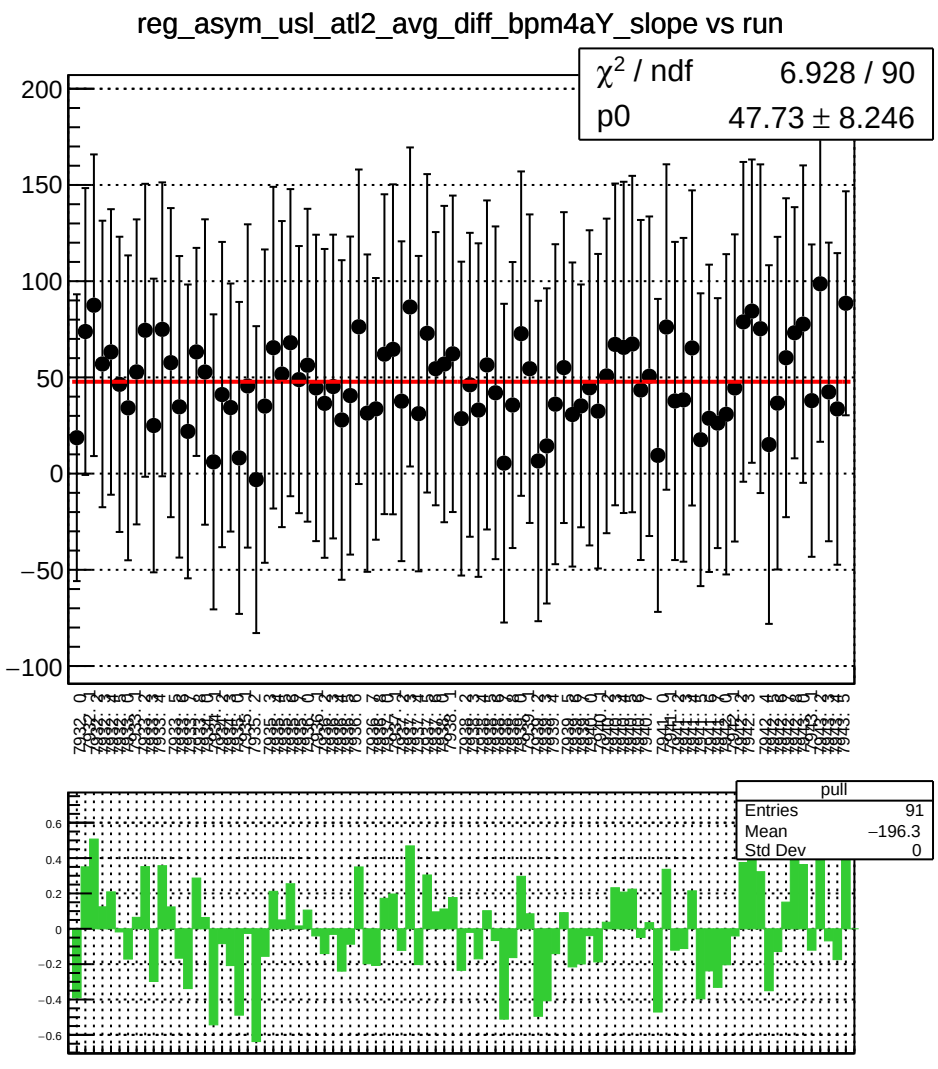

pull1D
Entries 91
Mean −0.01768
Std Dev 0.7012

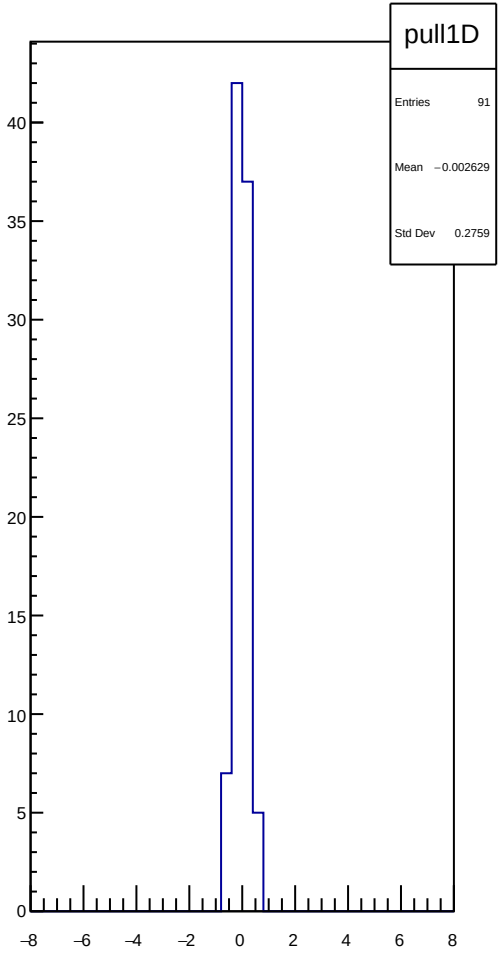

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.78 / 90
p0 5.927 ± 2.449
pull
Entries 91
Mean −1220
Std Dev 0

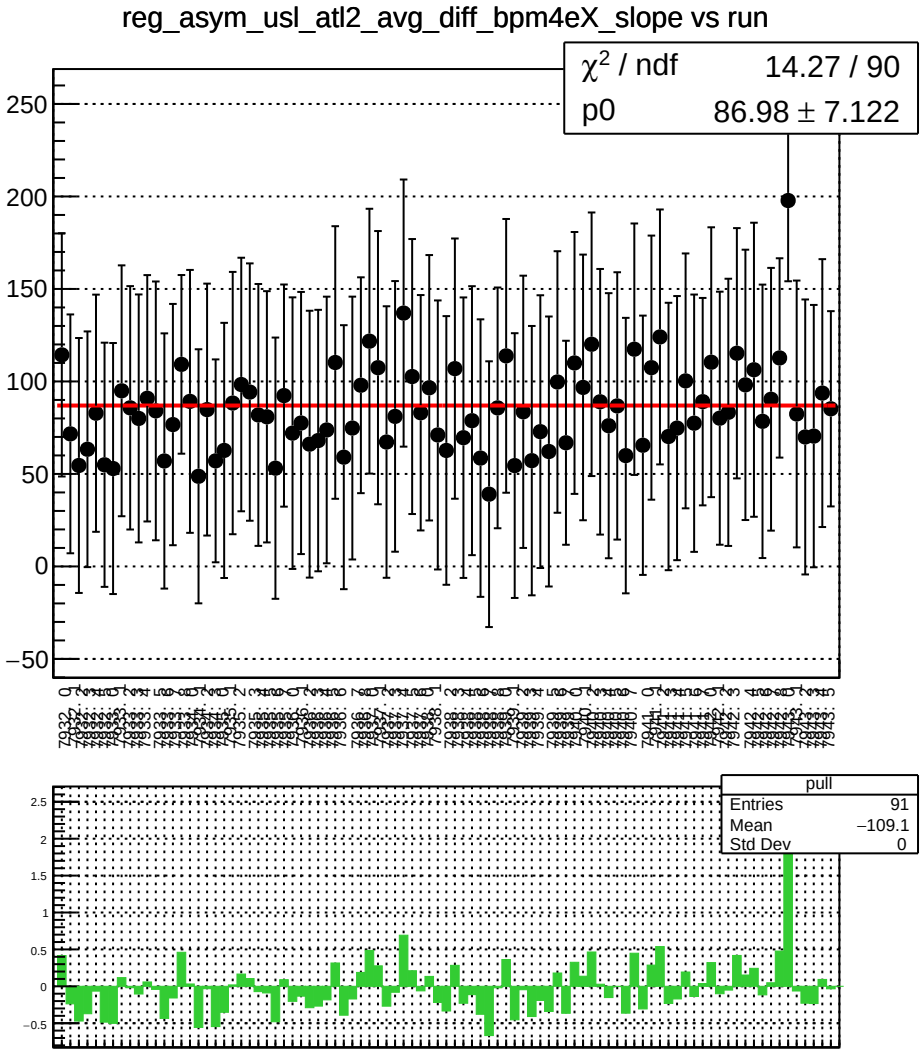

pull1D
Entries 91
Mean 0.001221
Std Dev 0.7687

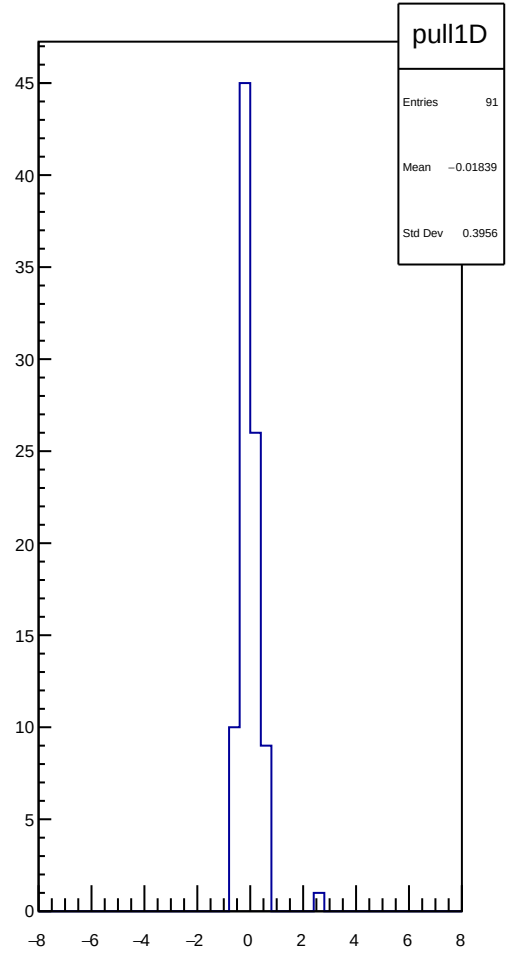

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 72.64 / 90
p0 −22.08 ± 0.06863
pull
Entries 91
Mean −1778
Std Dev 0
pull1D
Entries 91
Mean 0.003553
Std Dev 0.8934

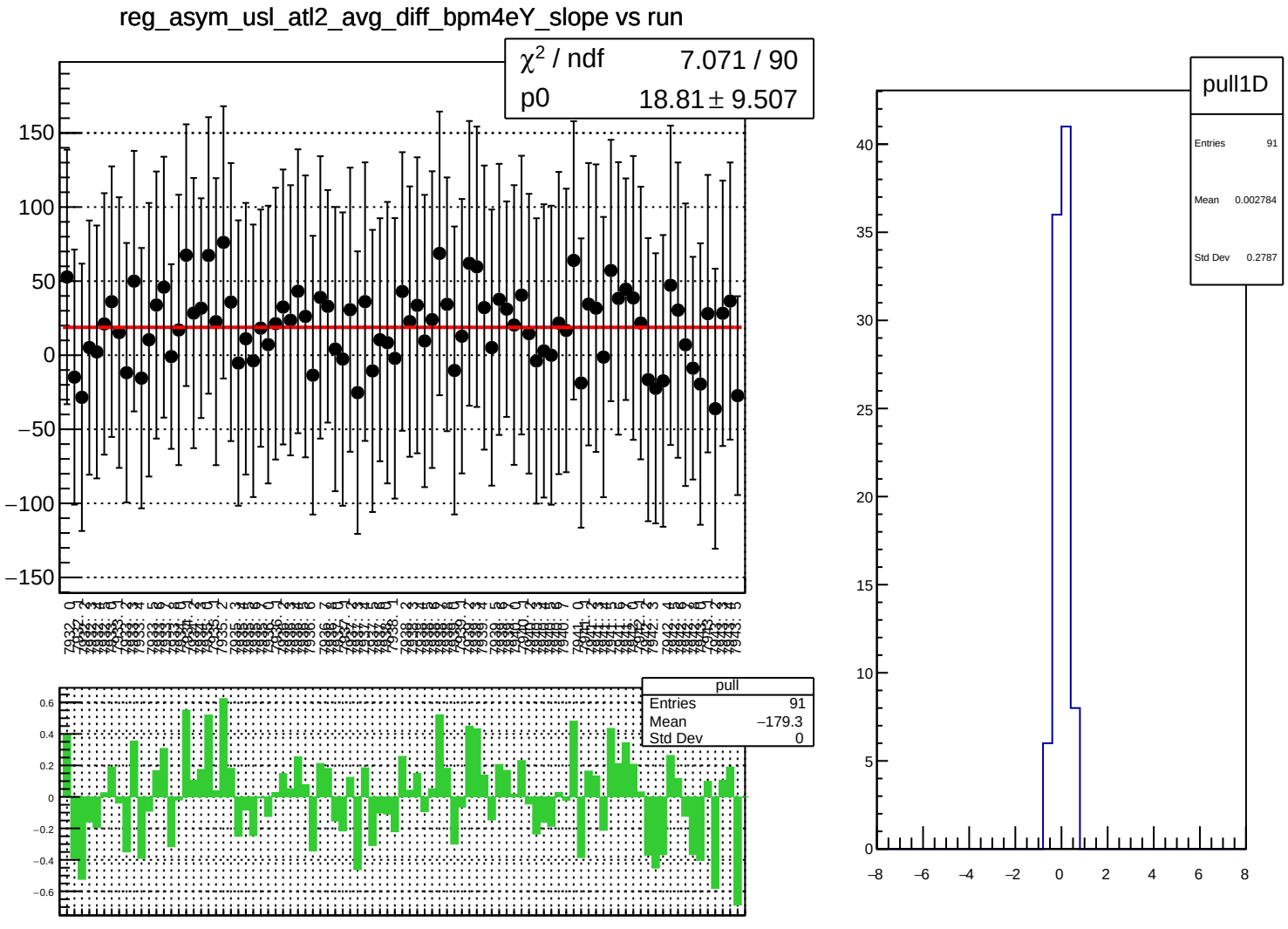

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 13.91 / 90
p0 −164.4 ± 7.915
pull
Entries 91
Mean −123.5
Std Dev 0
pull1D
Entries 91
Mean 0.01686
Std Dev 0.3906

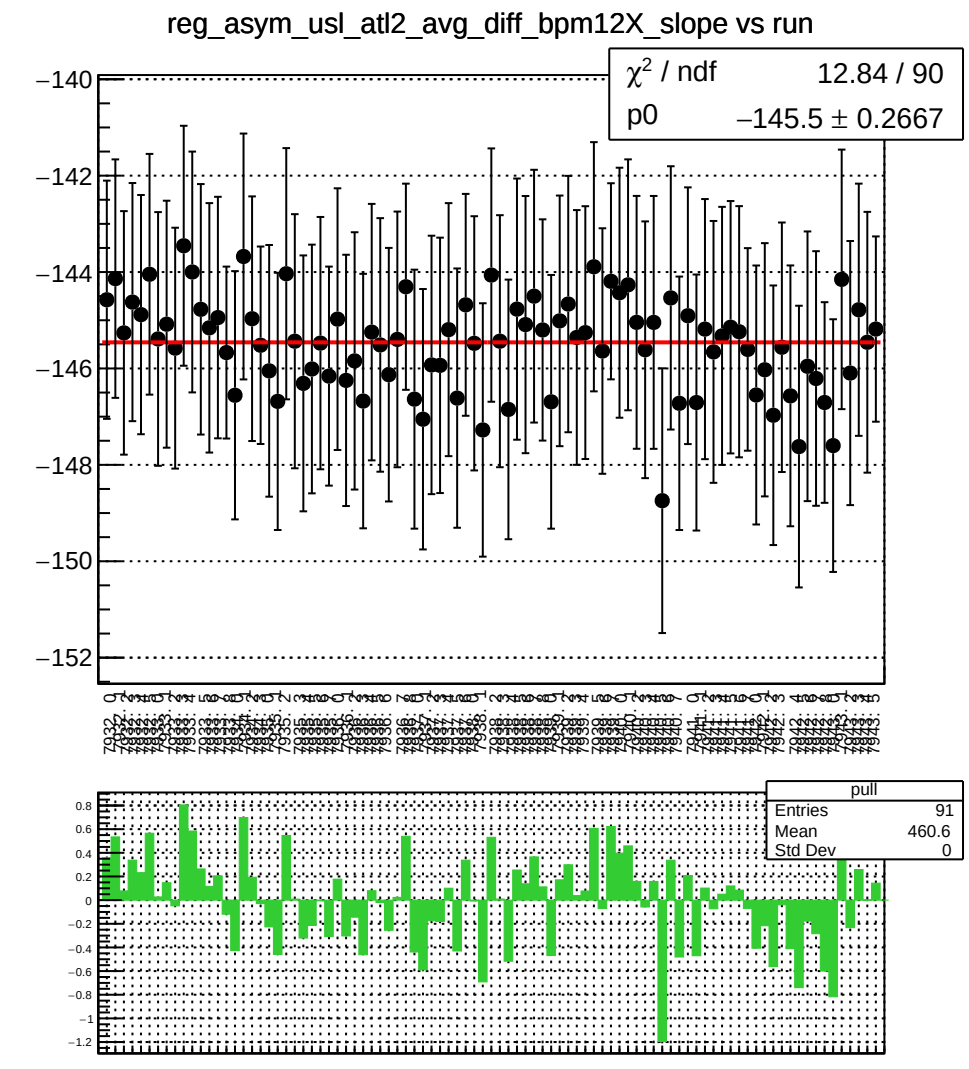

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.928 / 90
p0 47.73 ± 8.246
pull
Entries 91
Mean −196.3
Std Dev 0

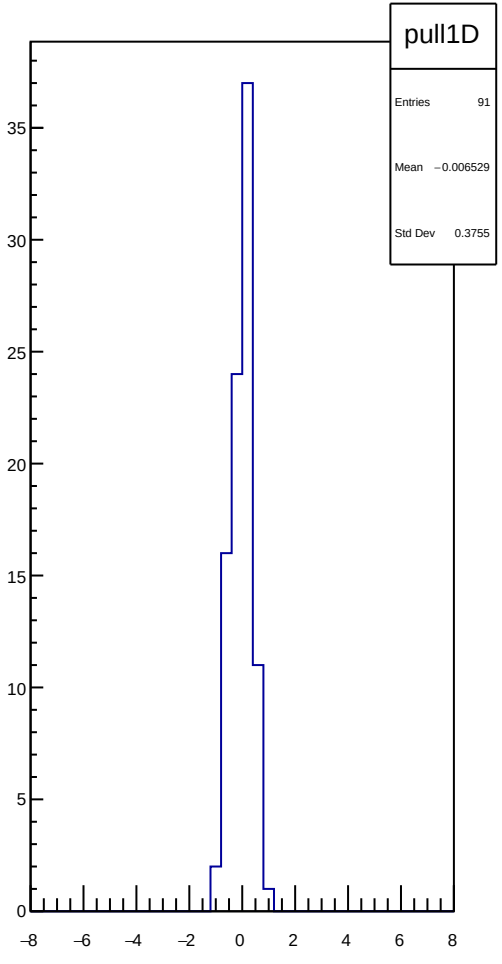

pull1D
Entries 91
Mean −0.002629
Std Dev 0.2759

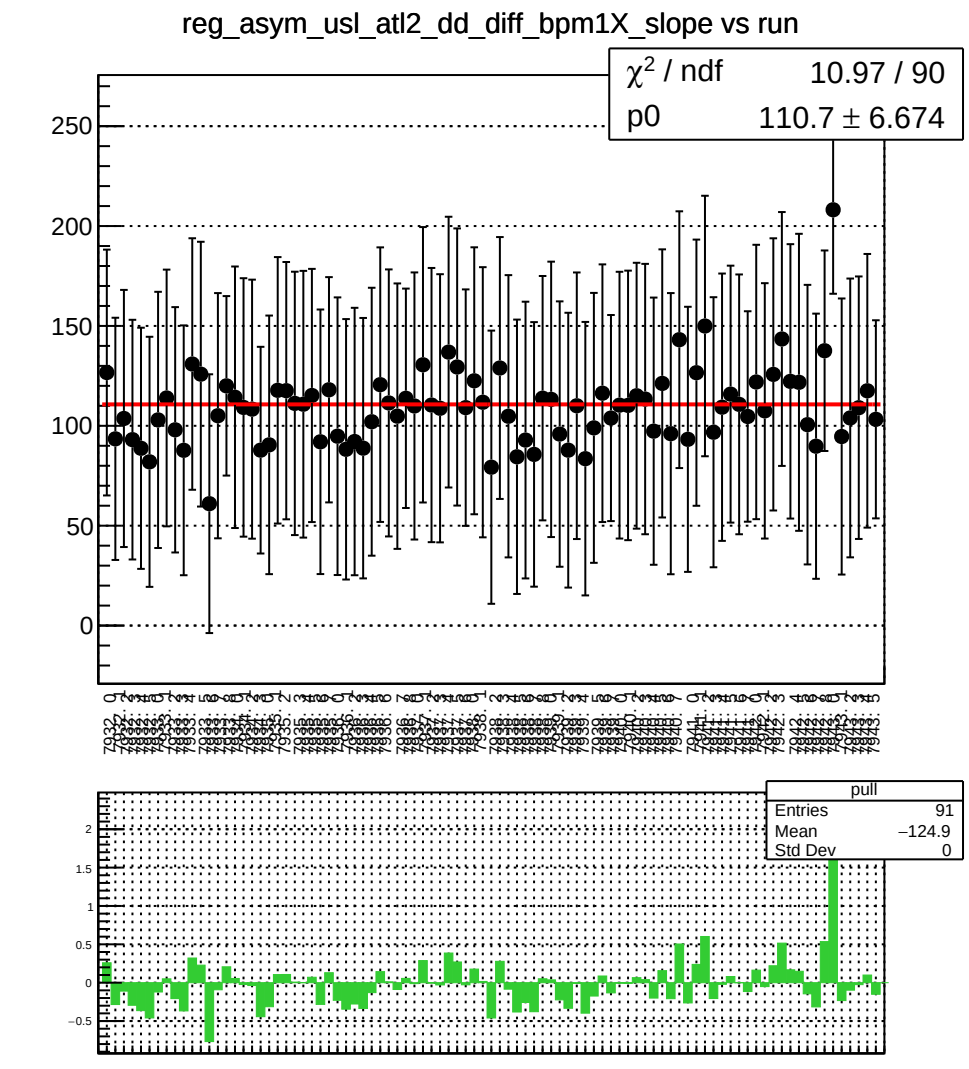

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.27 / 90
p0 86.98 ± 7.122
pull
Entries 91
Mean −109.1
Std Dev 0

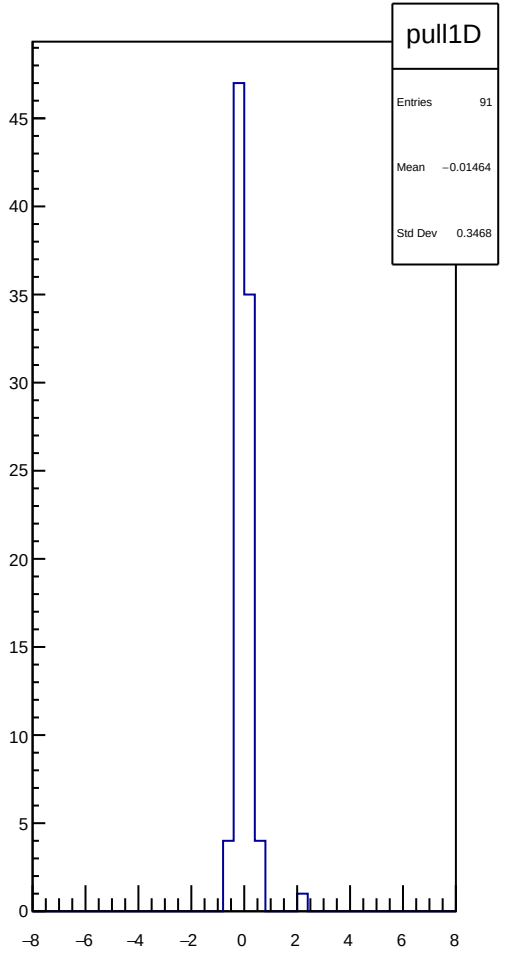

pull1D
Entries 91
Mean −0.01839
Std Dev 0.3956

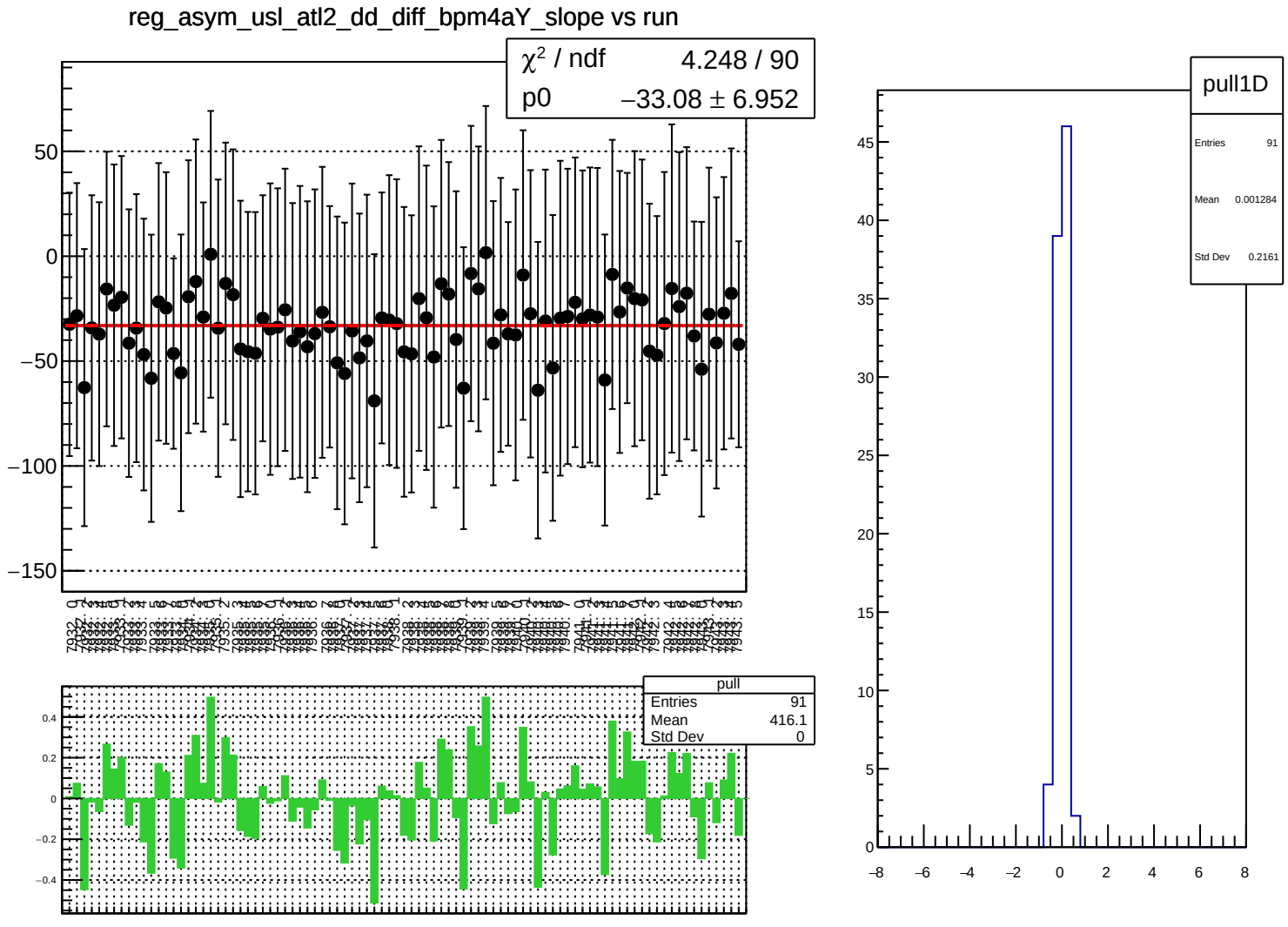

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.071 / 90
p0 18.81 ± 9.507
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −179.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.002784
Std Dev 0.2787
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

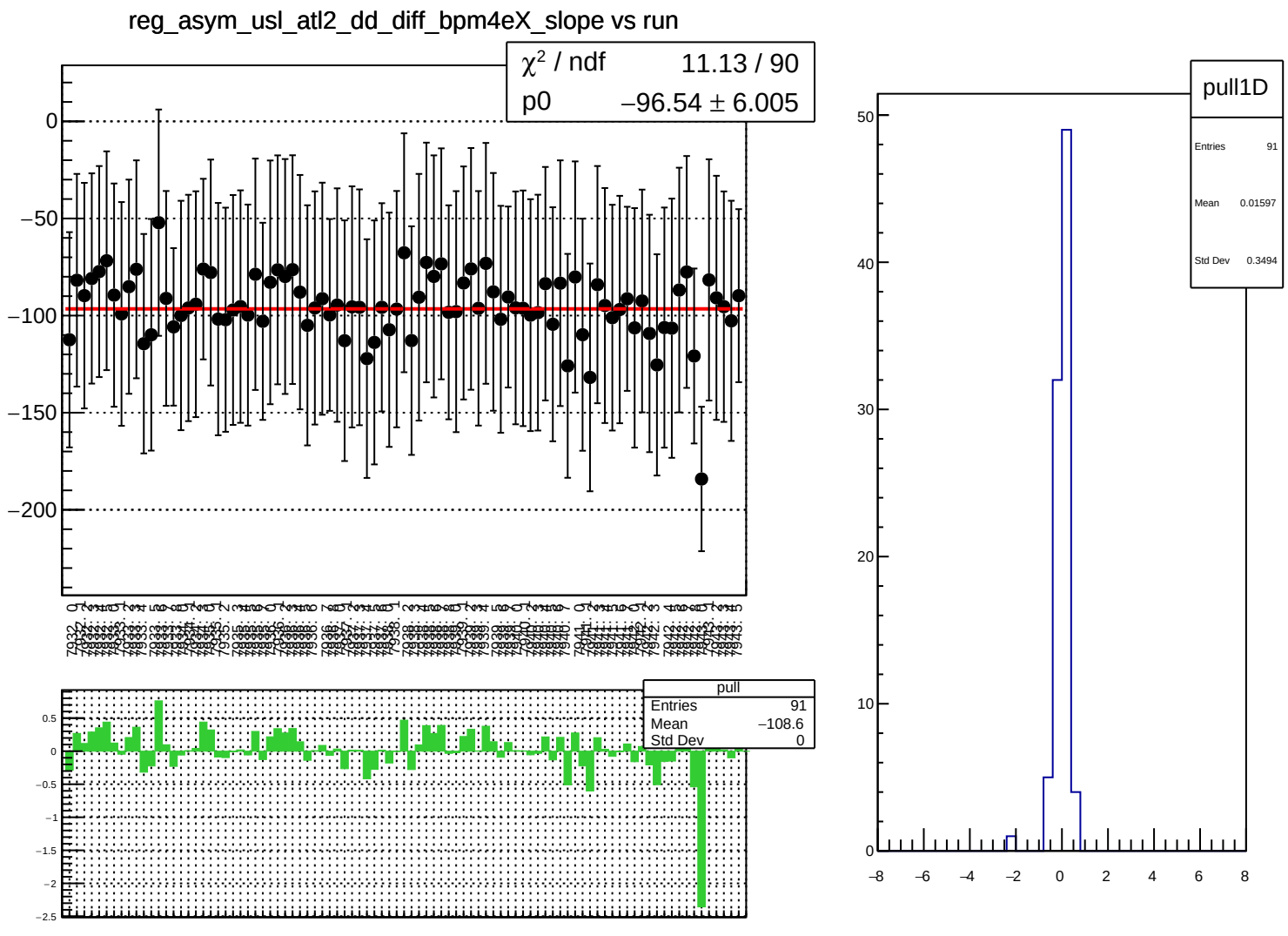

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.84 / 90
p0 −145.5 ± 0.2667
pull
Entries 91
Mean 460.6
Std Dev 0

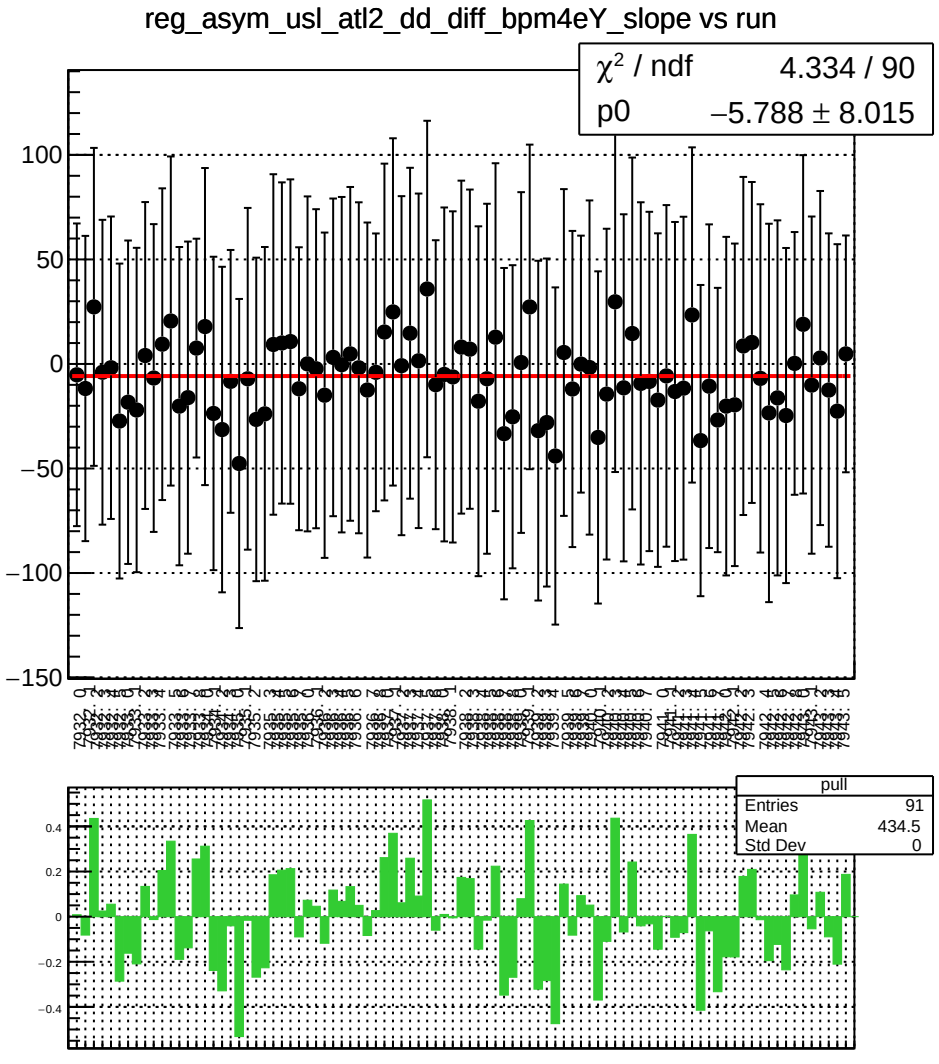

pull1D
Entries 91
Mean −0.006529
Std Dev 0.3755

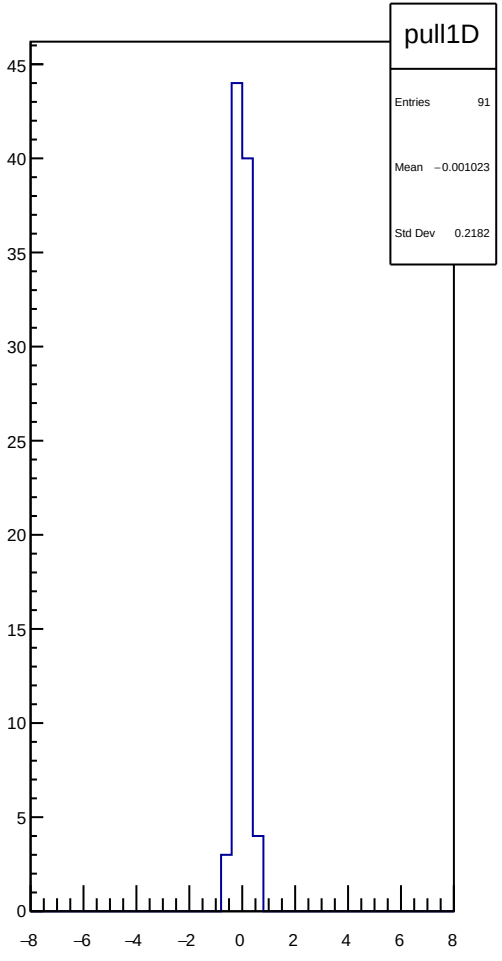

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.97 / 90
p0 110.7 ± 6.674
250
200
150
100
50
0
pull
Entries 91
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5

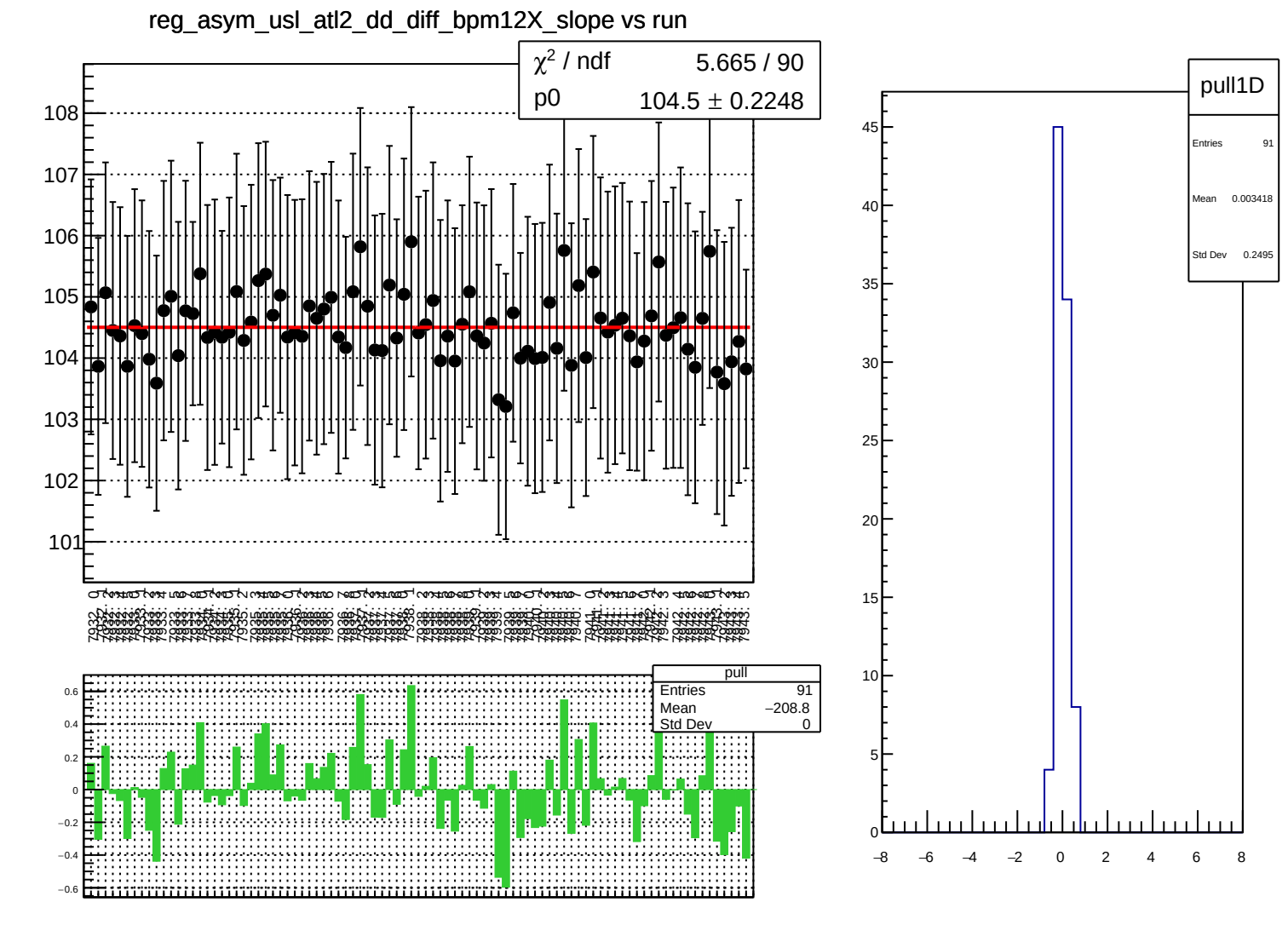

pull1D
Entries 91
Mean −0.01464
Std Dev 0.3468
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

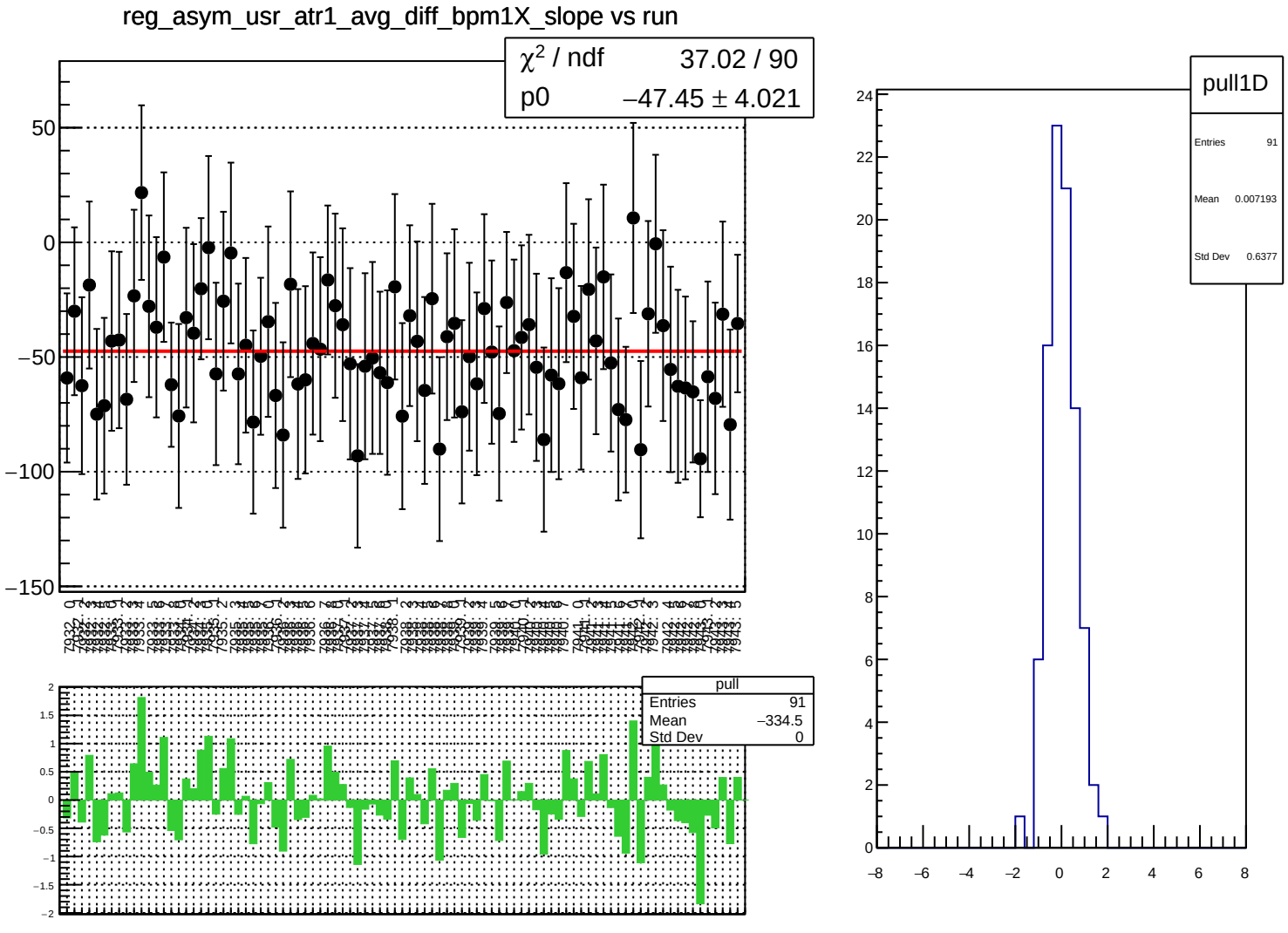

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.248 / 90
p0 −33.08 ± 6.952
50
0
−50
−100
−150
pull
Entries 91
Mean 416.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean 0.001284
Std Dev 0.2161
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

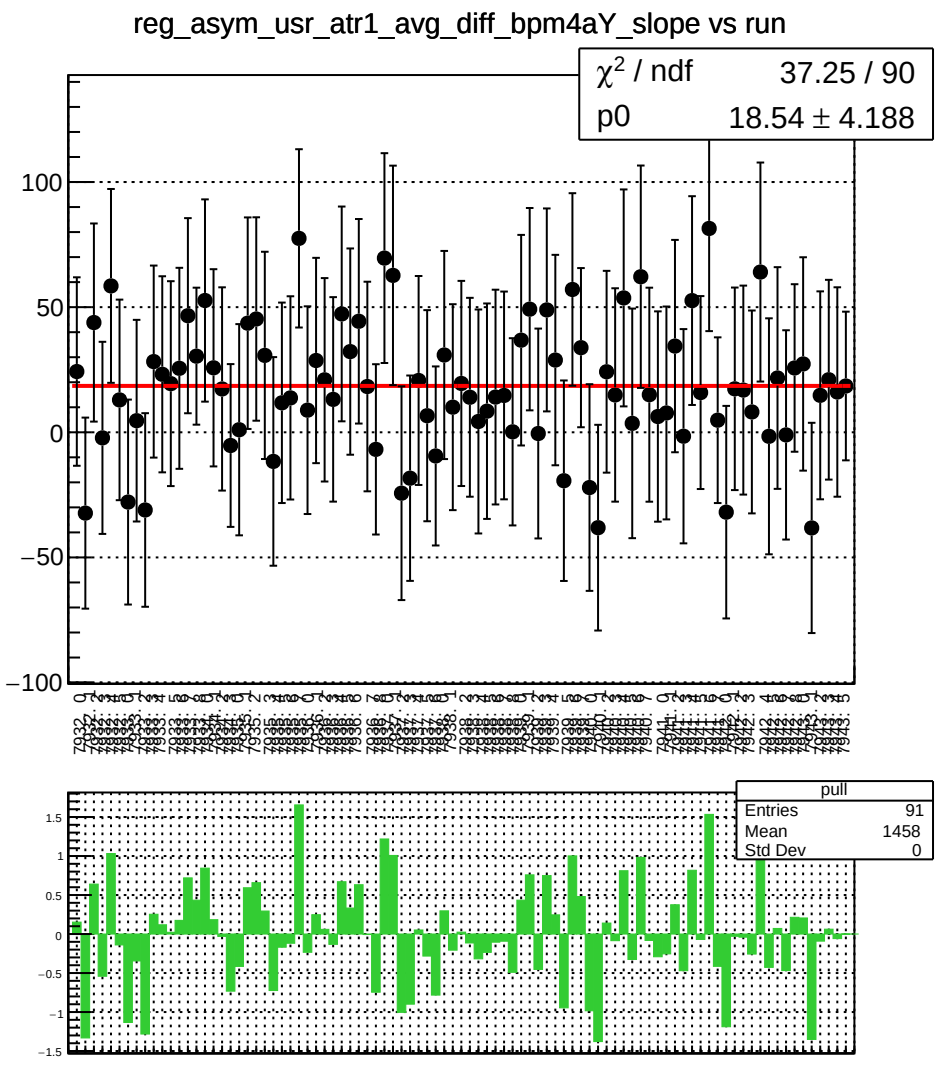

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.13 / 90
p0 −96.54 ± 6.005
pull
Entries 91
Mean −108.6
Std Dev 0
pull1D
Entries 91
Mean 0.01597
Std Dev 0.3494

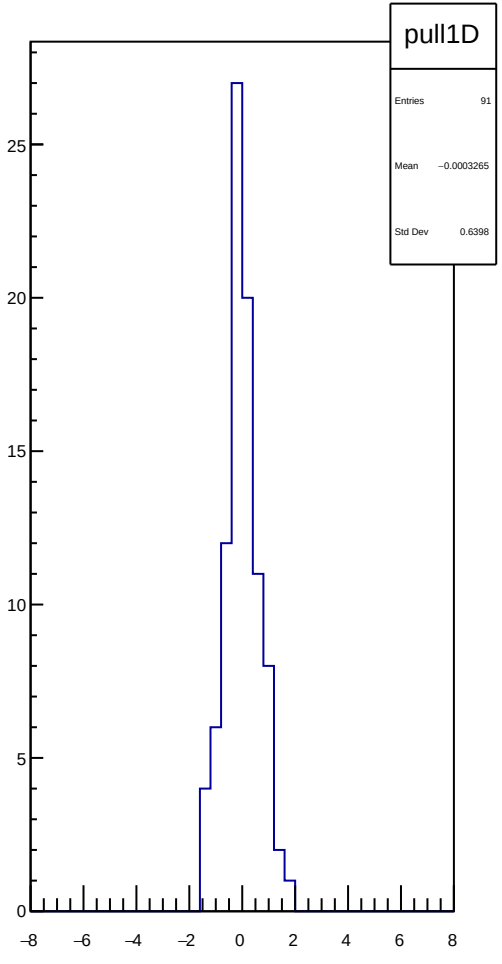

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.334 / 90
p0 −5.788 ± 8.015
pull
Entries 91
Mean 434.5
Std Dev 0

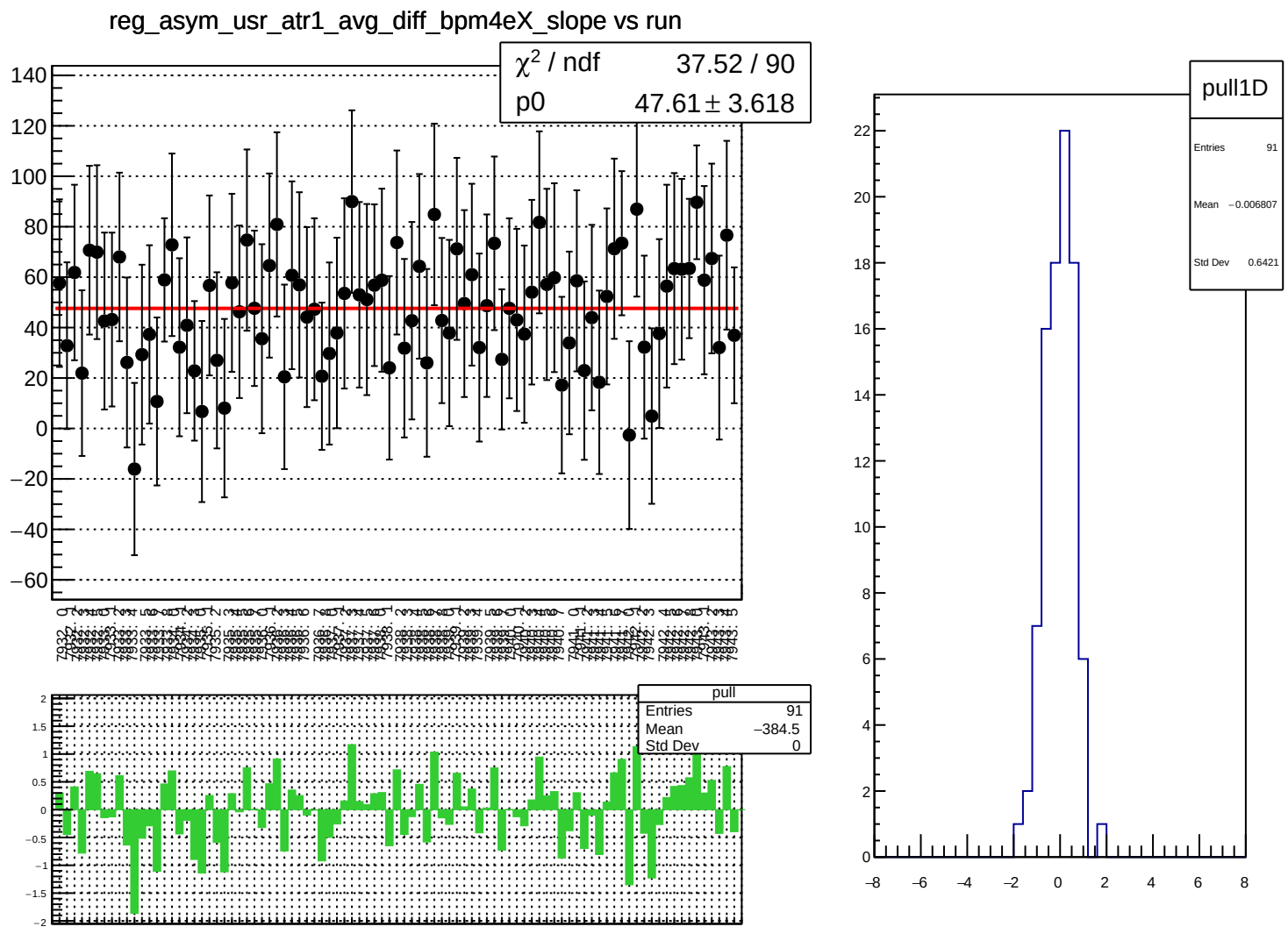

pull1D
Entries 91
Mean −0.001023
Std Dev 0.2182

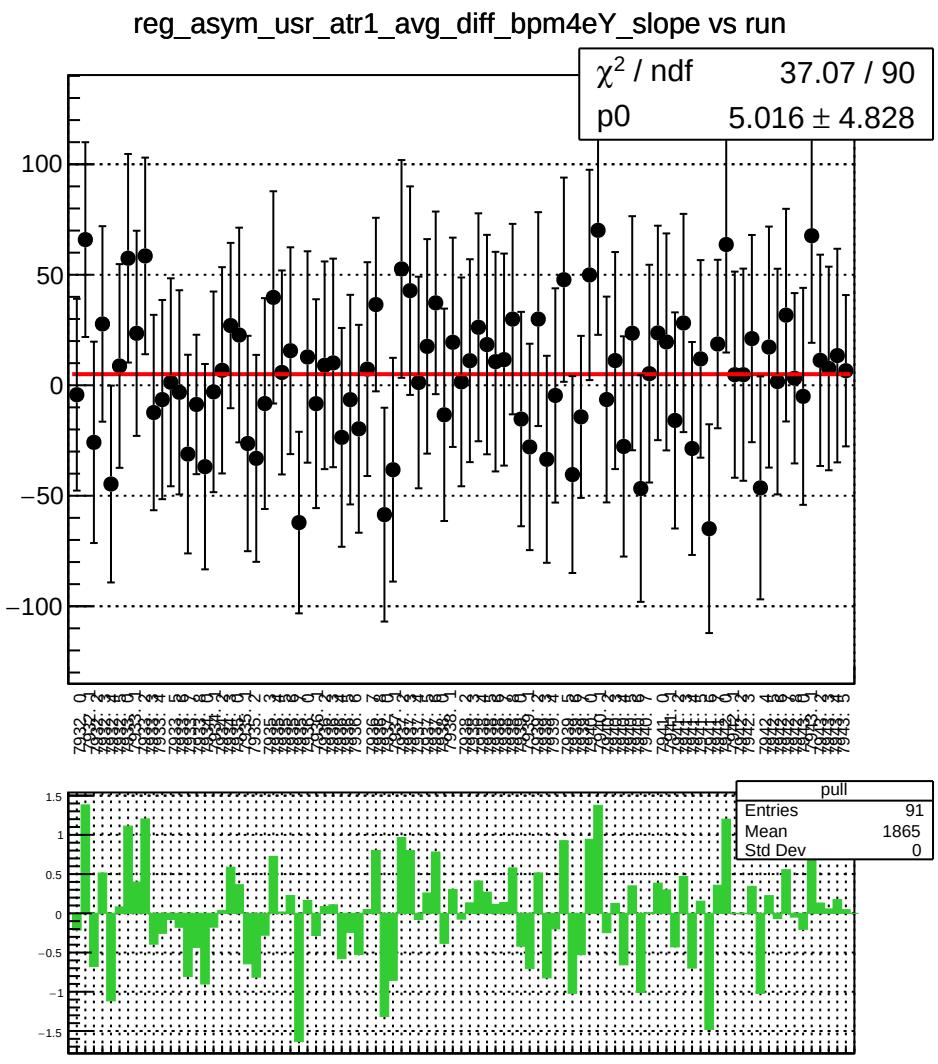

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 5.665 / 90
p0 104.5 ± 0.2248
pull
Entries 91
Mean −208.8
Std Dev 0
pull1D
Entries 91
Mean 0.003418
Std Dev 0.2495

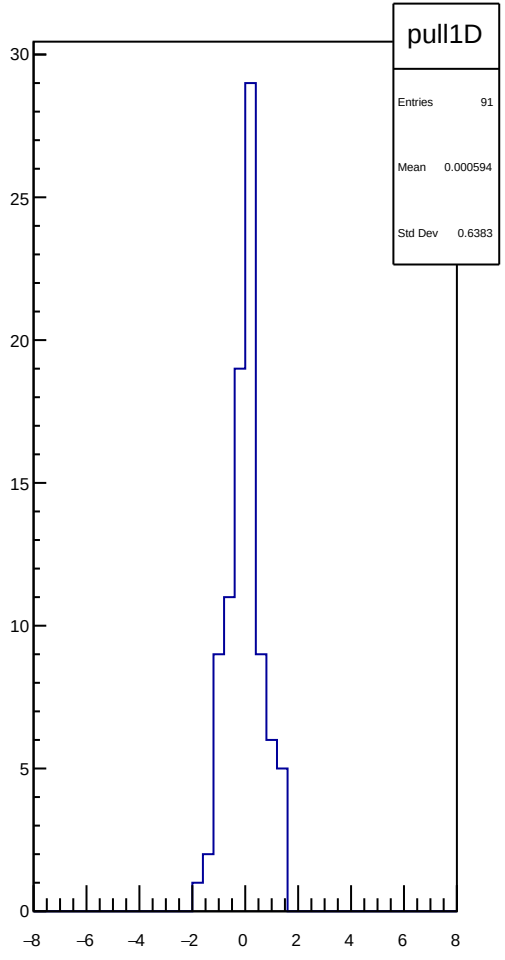

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 37.02 / 90
p0 −47.45 ± 4.021
pull
Entries 91
Mean −334.5
Std Dev 0
pull1D
Entries 91
Mean 0.007193
Std Dev 0.6377

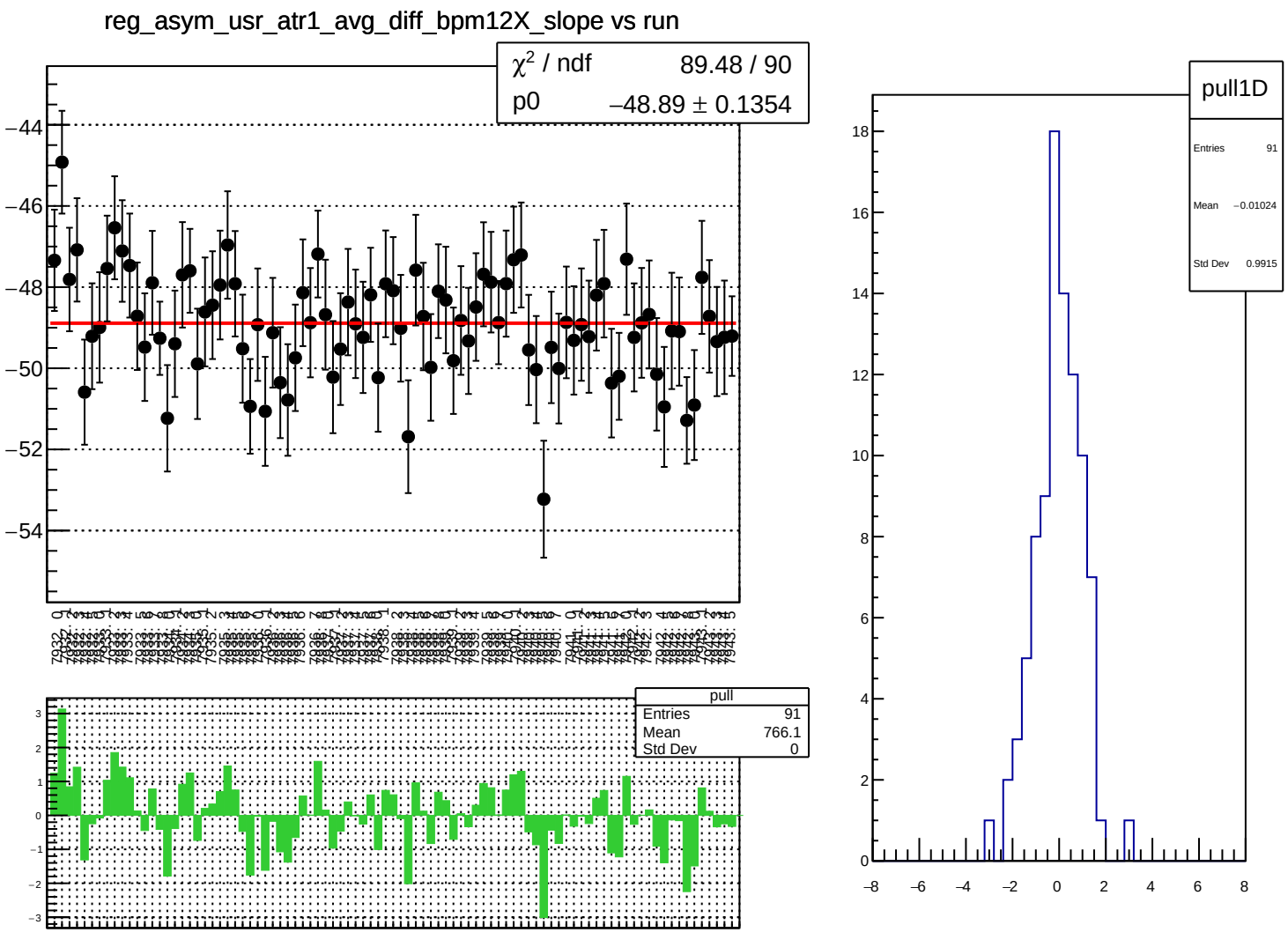

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.25 / 90
p0 18.54 ± 4.188
pull
Entries 91
Mean 1458
Std Dev 0

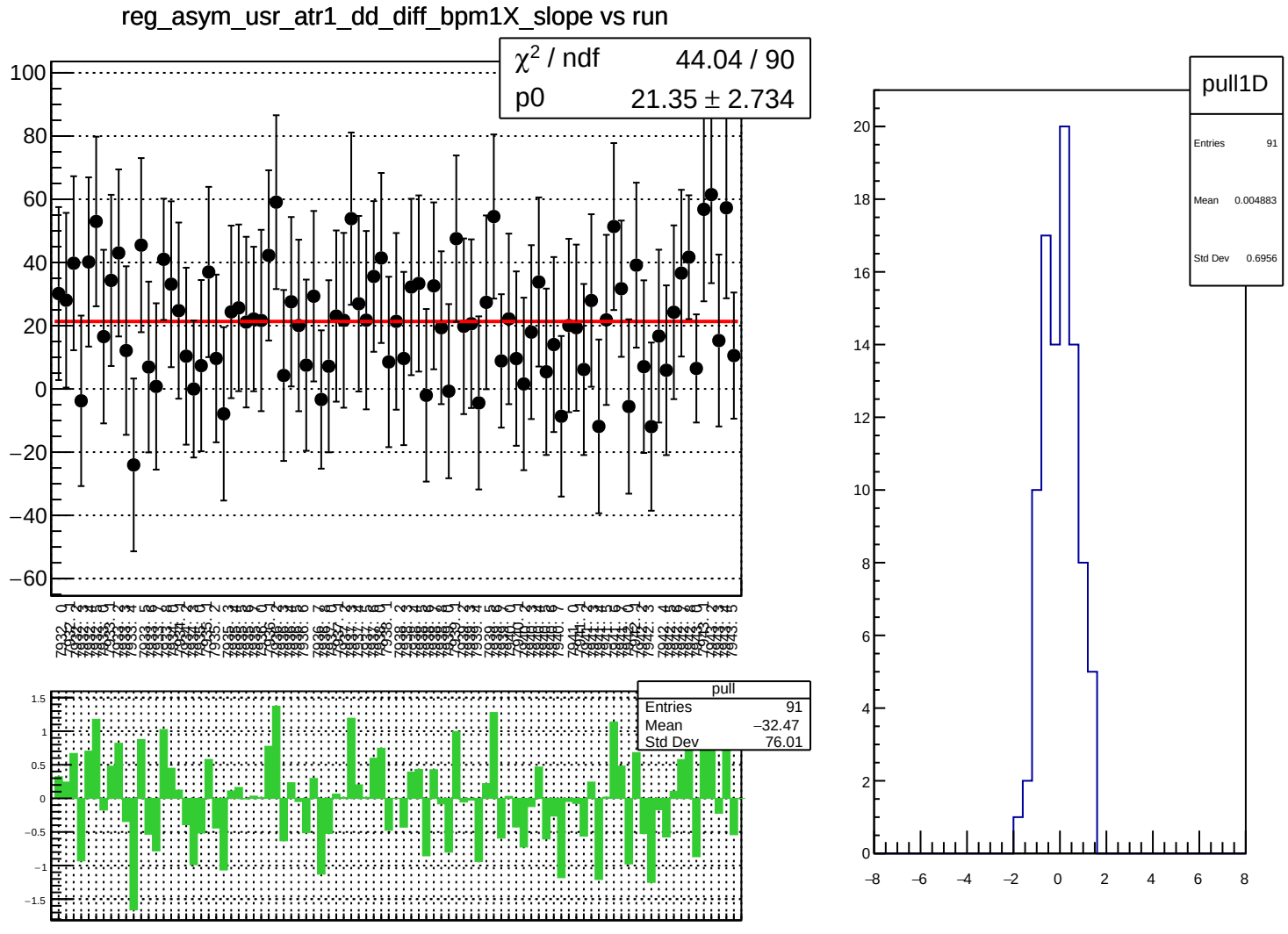

pull1D
Entries 91
Mean −0.0003265
Std Dev 0.6398

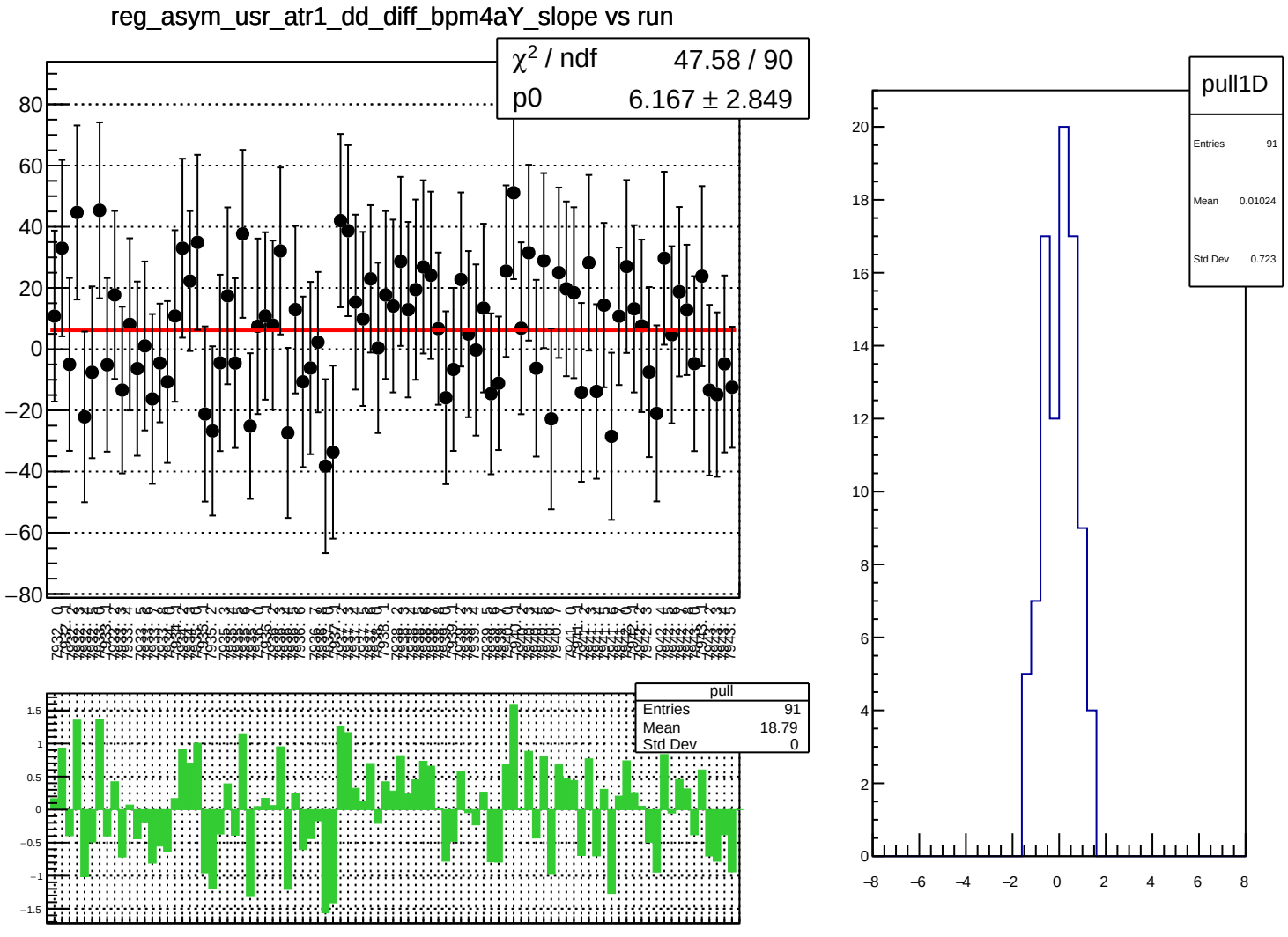

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.52 / 90
p0 47.61 ± 3.618
pull
Entries 91
Mean −384.5
Std Dev 0
pull1D
Entries 91
Mean −0.006807
Std Dev 0.6421

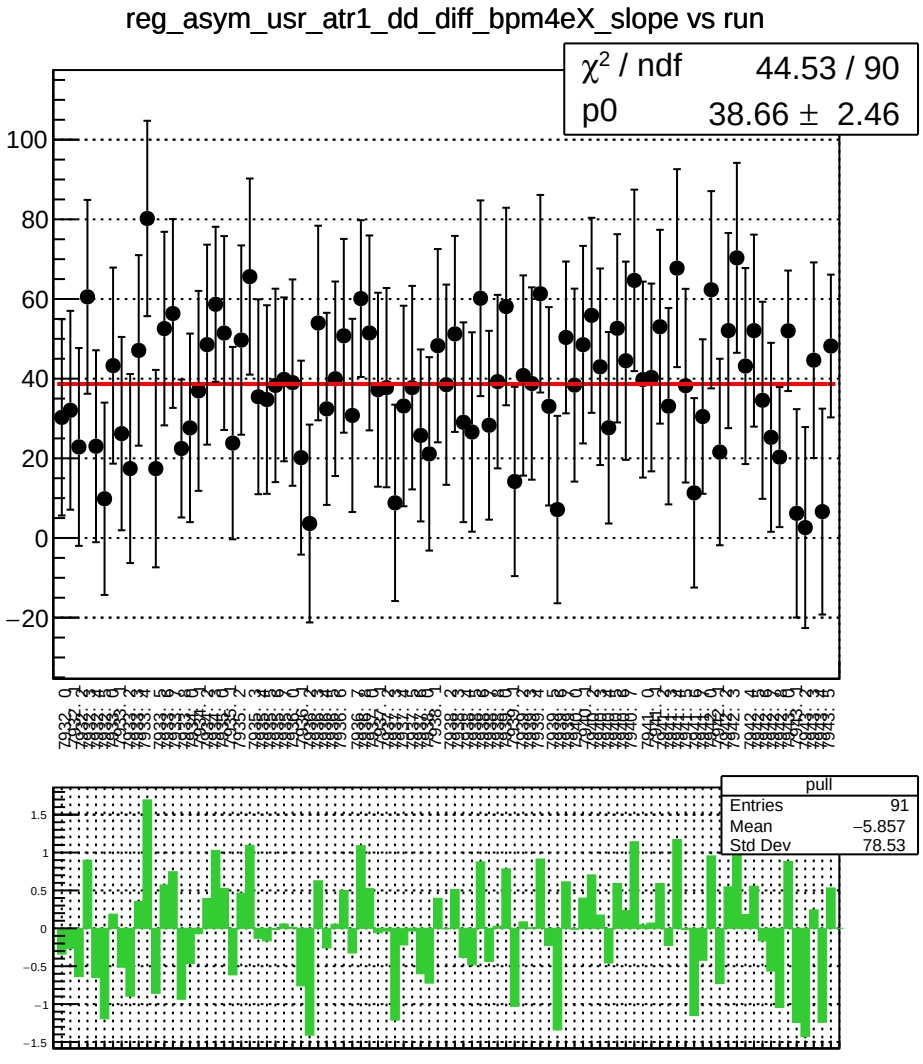

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.07 / 90
p0 5.016 ± 4.828
100
50
0
−50
−100
pull
Entries 91
Mean 1865
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

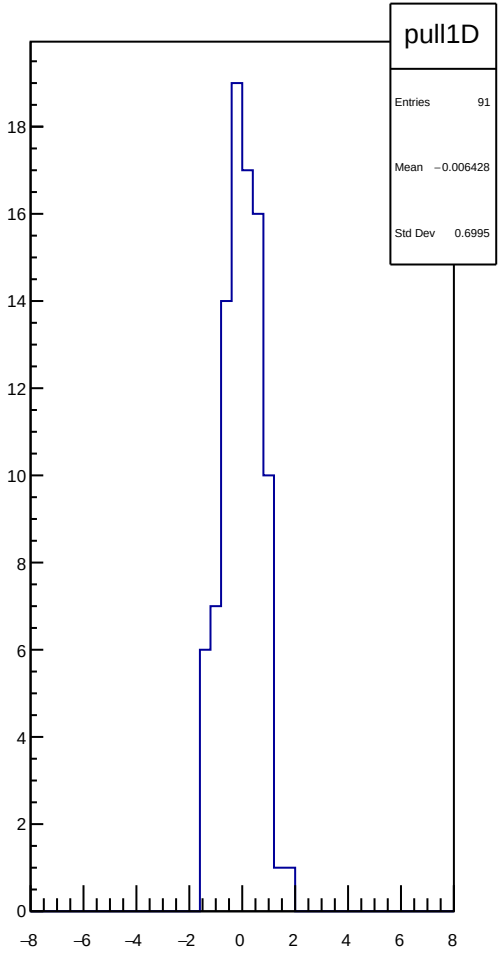

pull1D
Entries 91
Mean 0.000594
Std Dev 0.6383
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

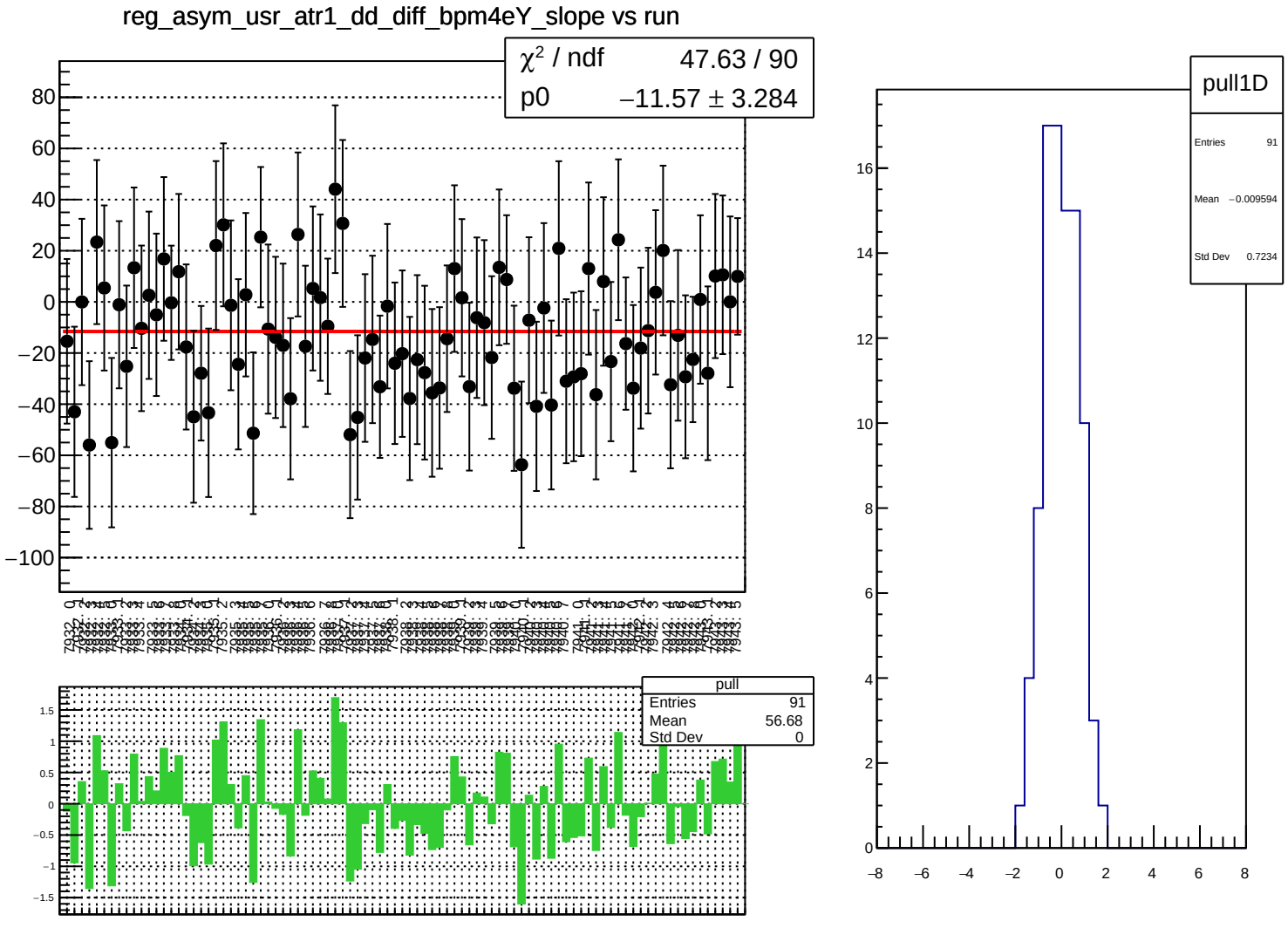

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 89.48 / 90
p0 −48.89 ± 0.1354
pull
Entries 91
Mean 766.1
Std Dev 0
pull1D
Entries 91
Mean −0.01024
Std Dev 0.9915

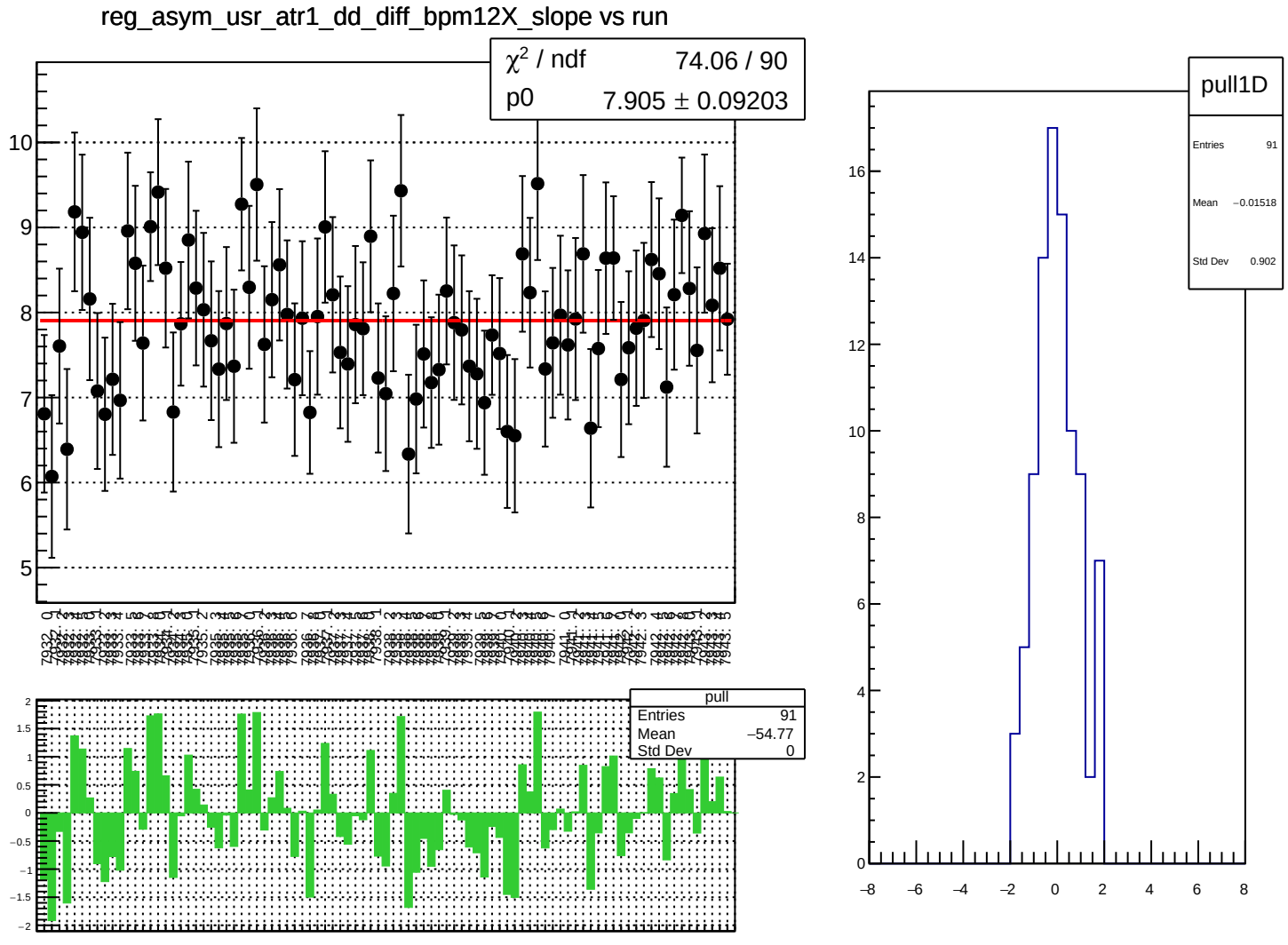

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 44.04 / 90
p0 21.35 ± 2.734
pull
Entries 91
Mean −32.47
Std Dev 76.01
pull1D
Entries 91
Mean 0.004883
Std Dev 0.6956

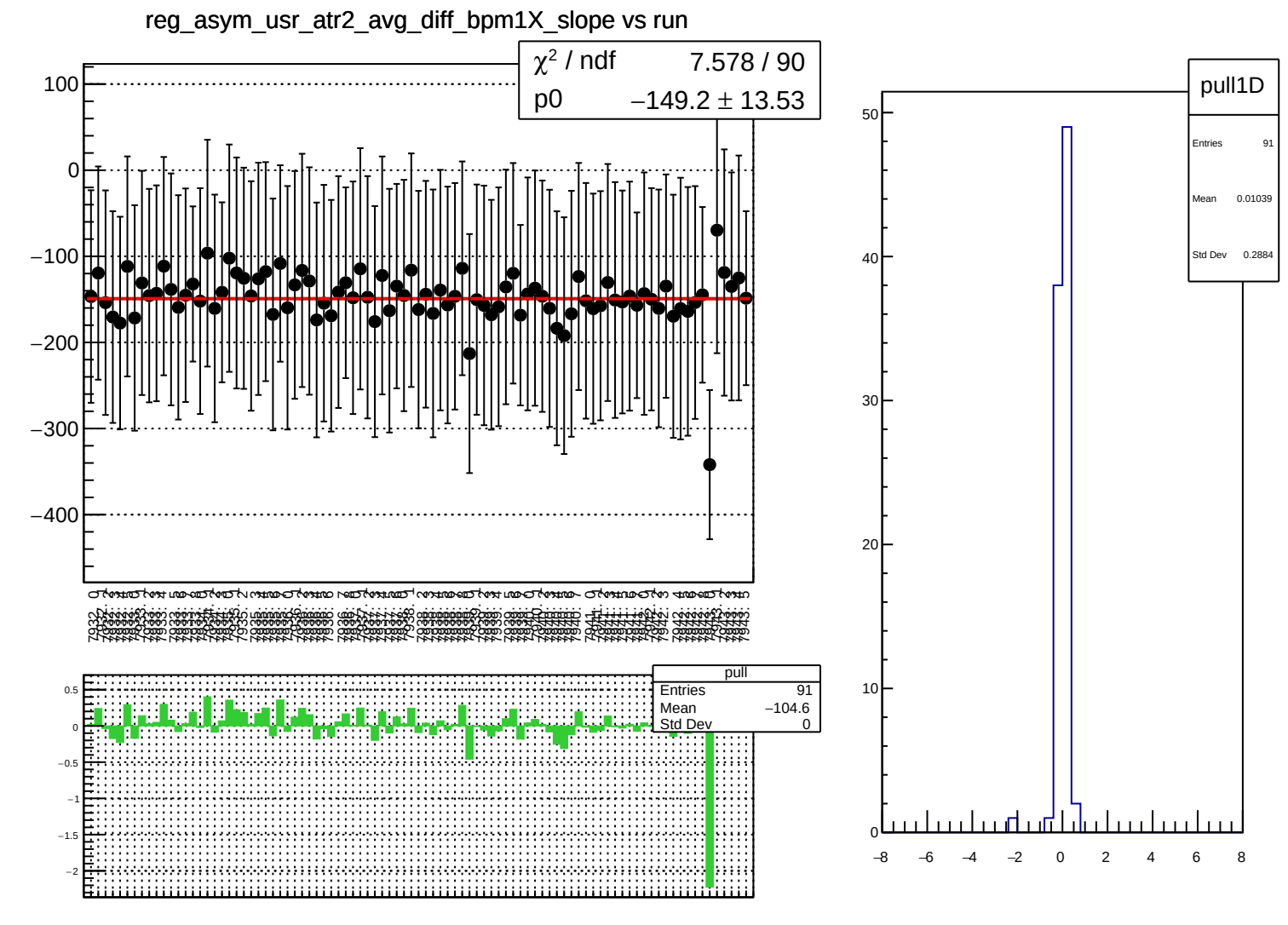

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.58 / 90
p0 6.167 ± 2.849
pull
Entries 91
Mean 18.79
Std Dev 0
pull1D
Entries 91
Mean 0.01024
Std Dev 0.723

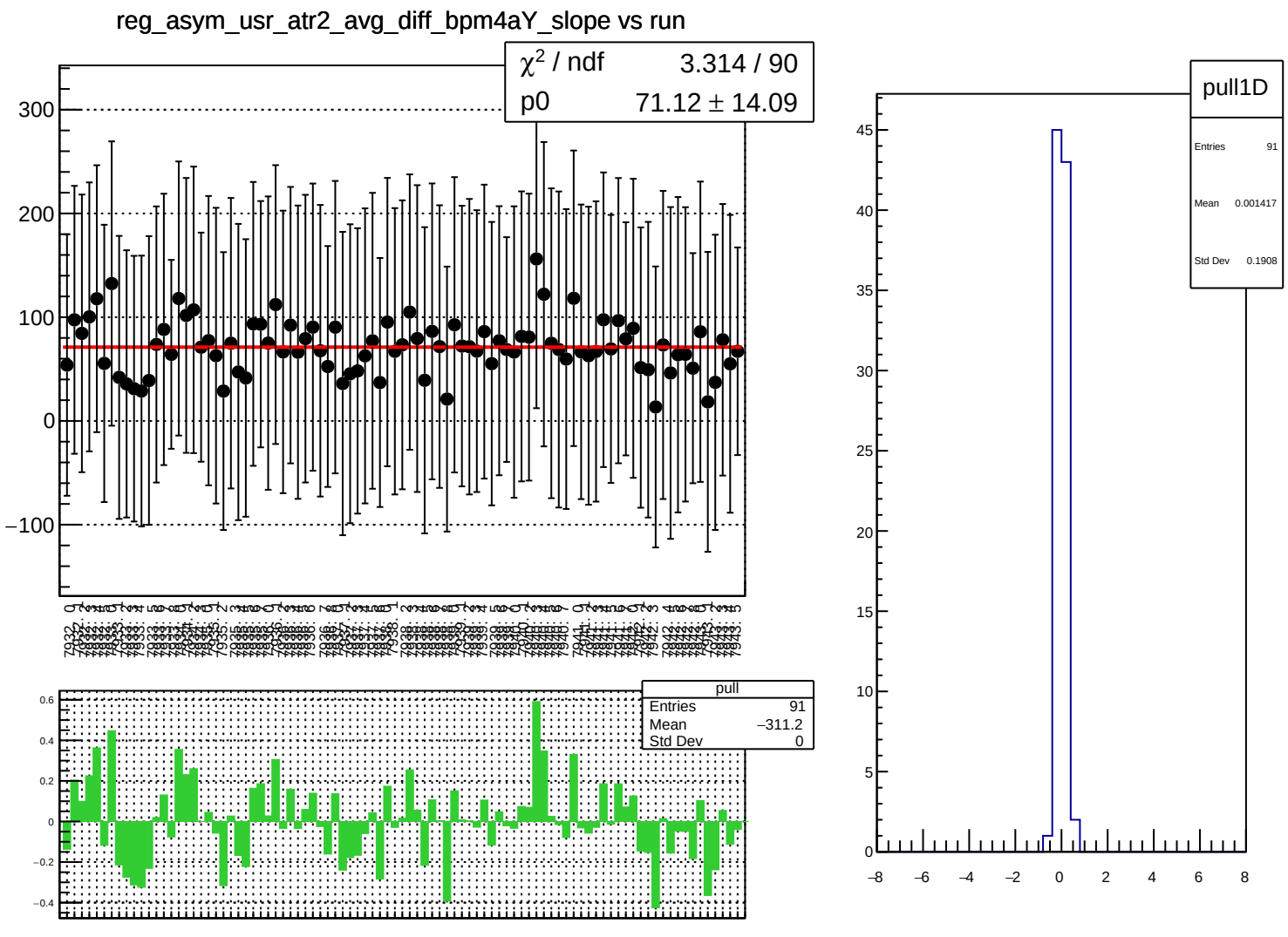

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.53 / 90
p0 38.66 ± 2.46
pull
Entries 91
Mean −5.857
Std Dev 78.53

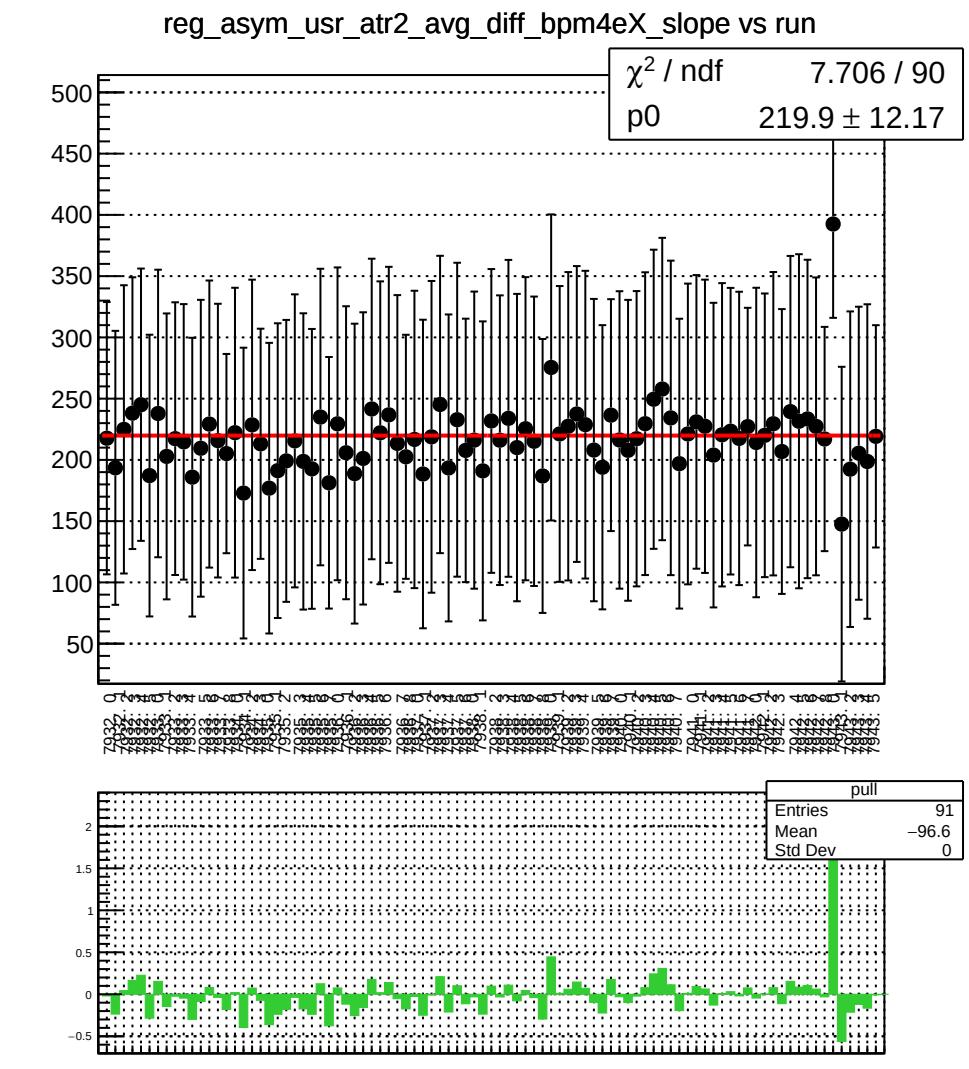

pull1D
Entries 91
Mean −0.006428
Std Dev 0.6995

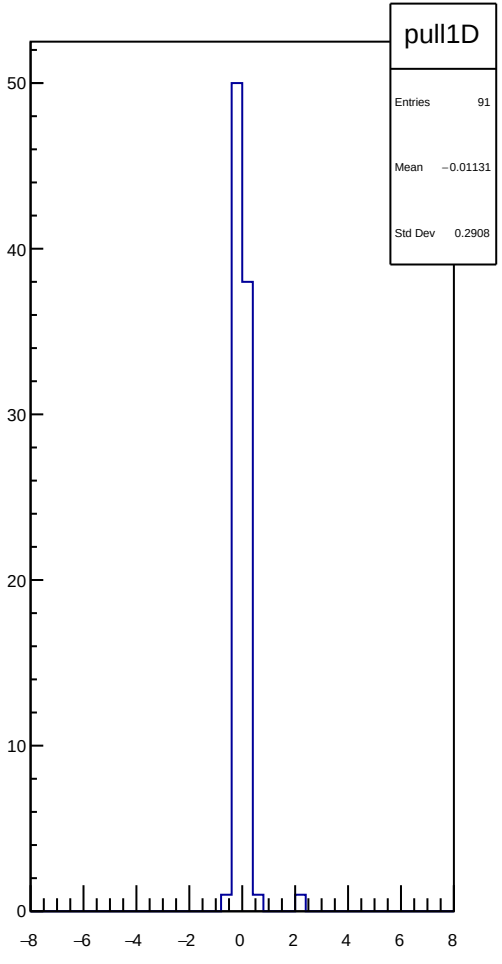

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.63 / 90
p0 −11.57 ± 3.284
pull
Entries 91
Mean 56.68
Std Dev 0
pull1D
Entries 91
Mean −0.009594
Std Dev 0.7234

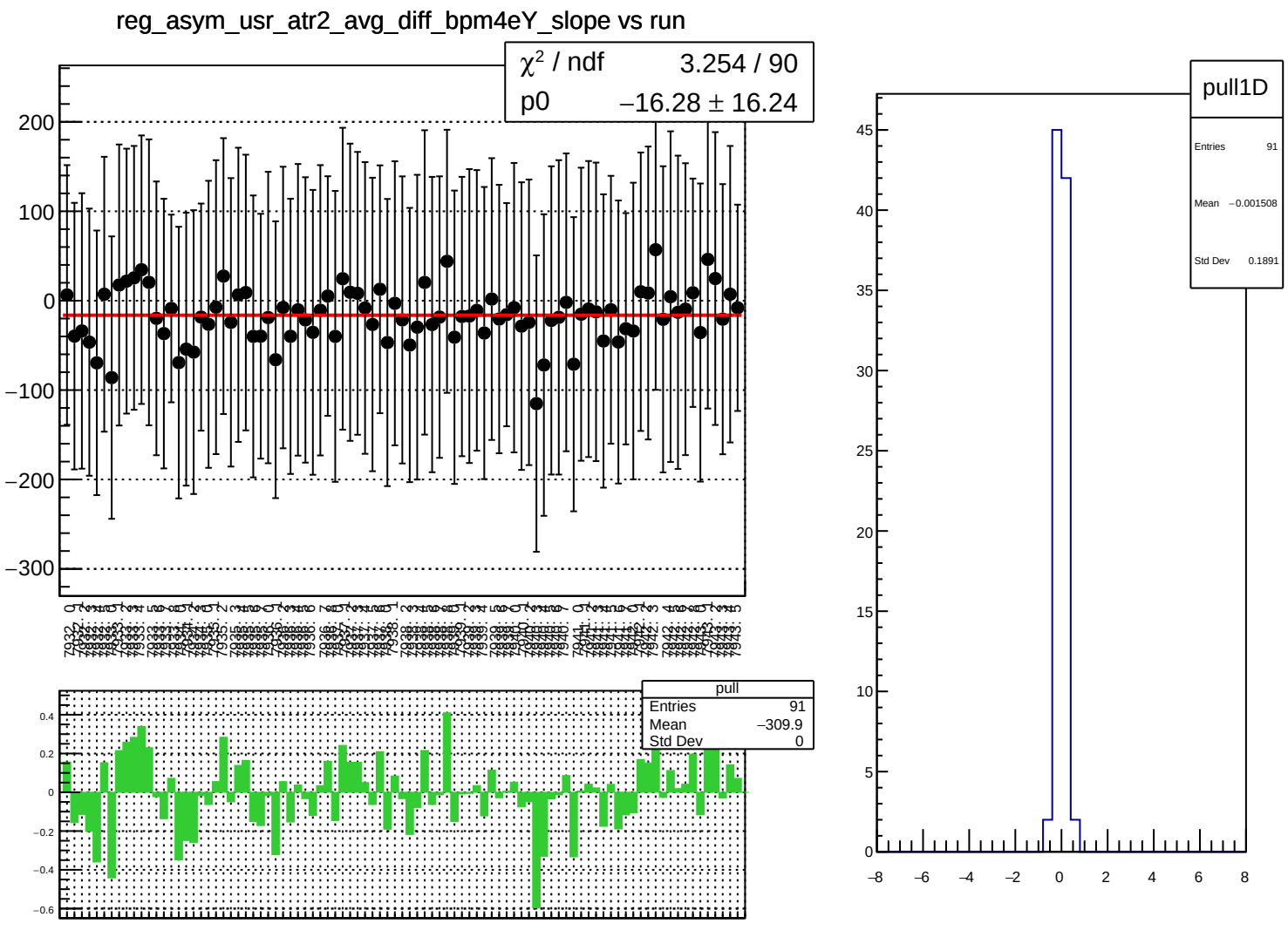

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 74.06 / 90
p0 7.905 ± 0.09203
pull
Entries 91
Mean −54.77
Std Dev 0
pull1D
Entries 91
Mean −0.01518
Std Dev 0.902

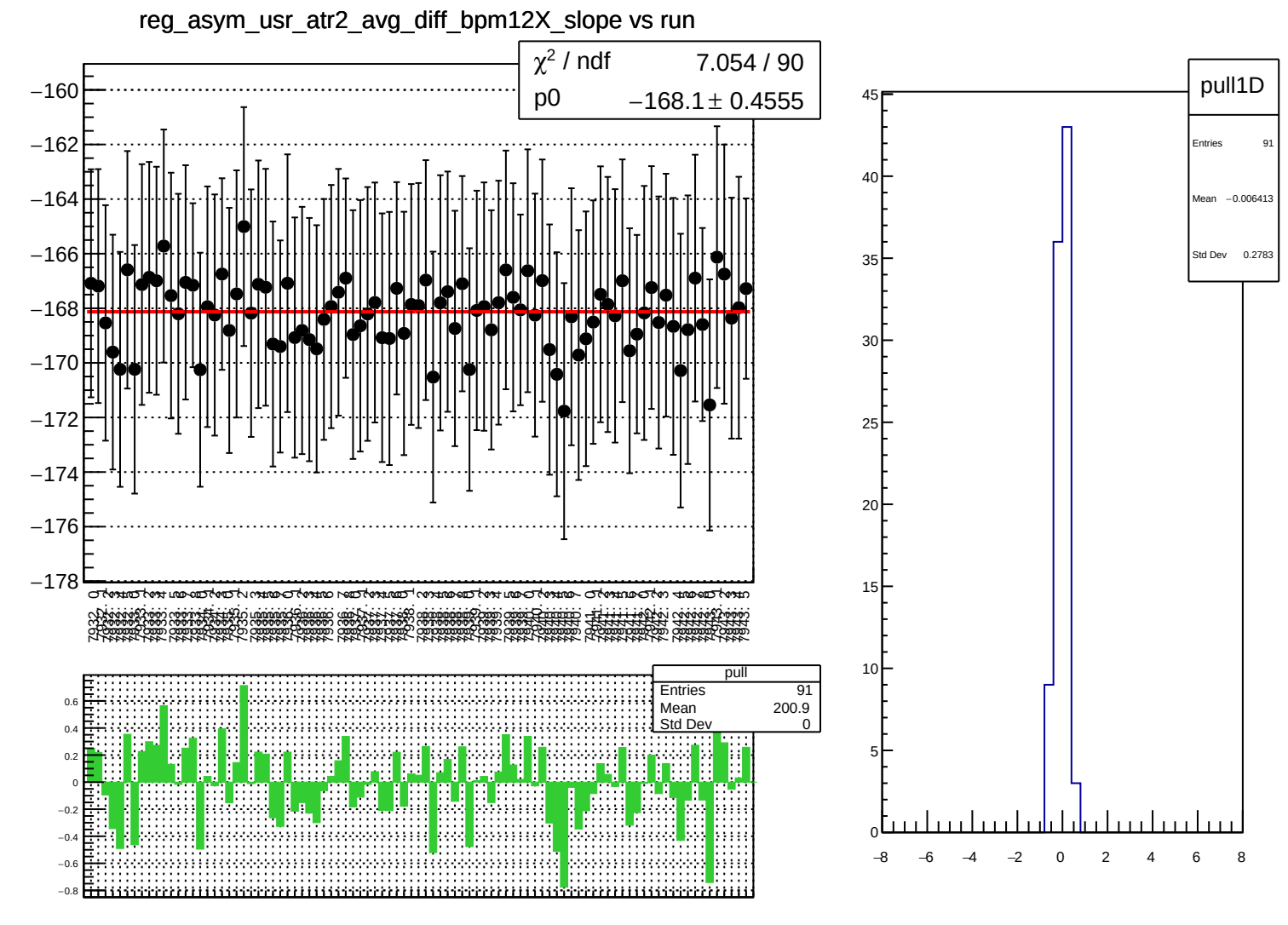

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.578 / 90
p0 −149.2 ± 13.53
pull
Entries 91
Mean −104.6
Std Dev 0
pull1D
Entries 91
Mean 0.01039
Std Dev 0.2884

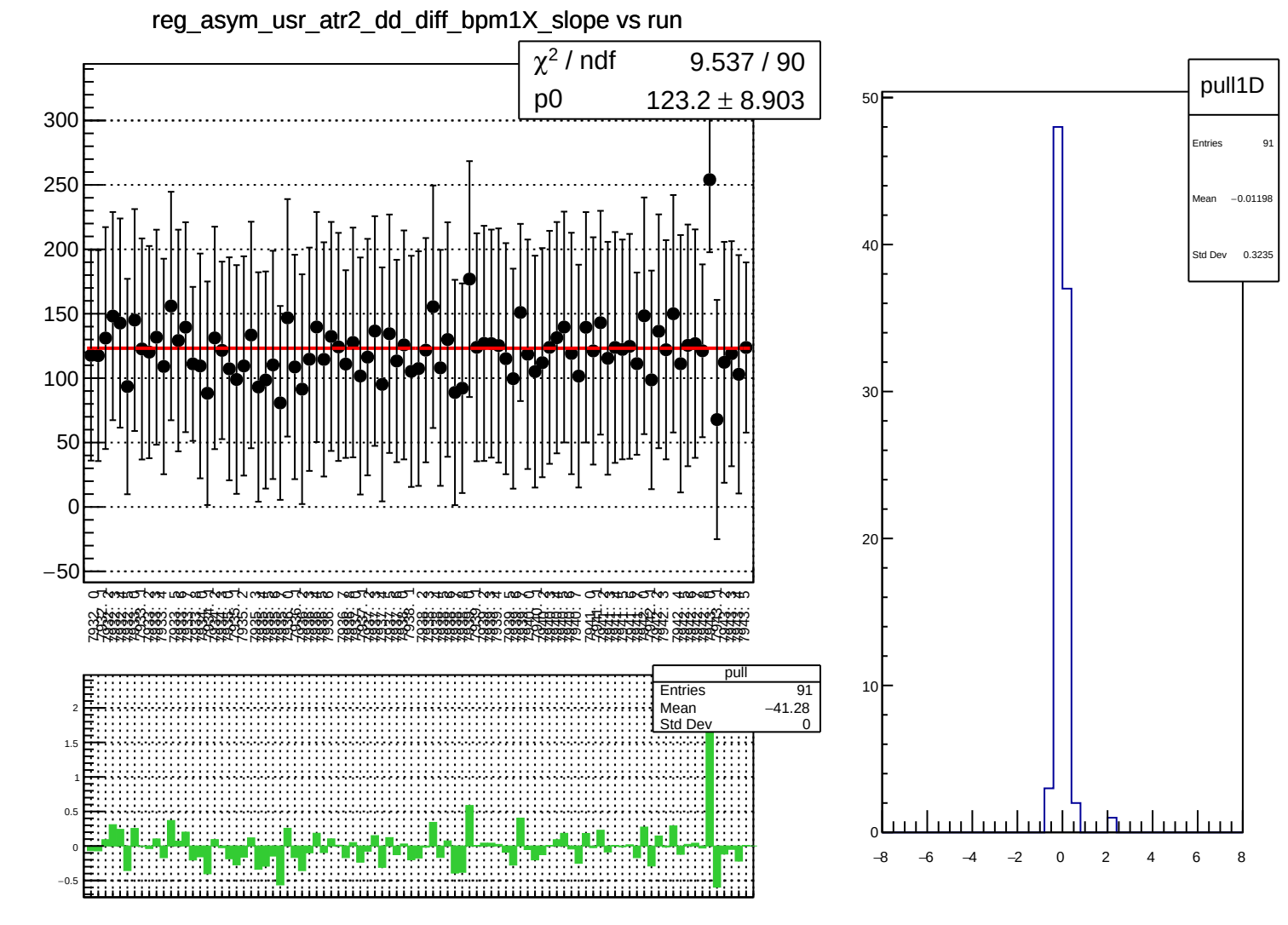

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.314 / 90
p0 71.12 ± 14.09
300
200
100
0
−100
pull
Entries 91
Mean −311.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean 0.001417
Std Dev 0.1908
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

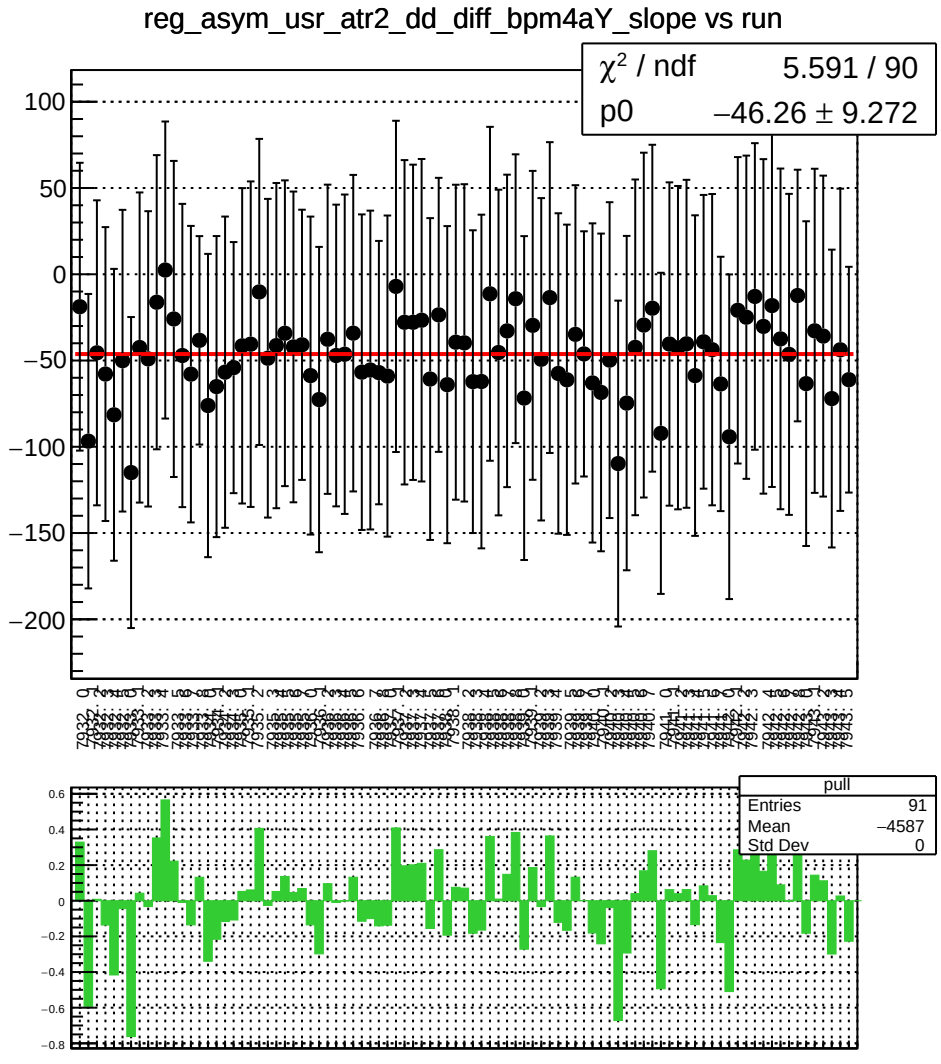

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.706 / 90
p0 219.9 ± 12.17
pull
Entries 91
Mean −96.6
Std Dev 0

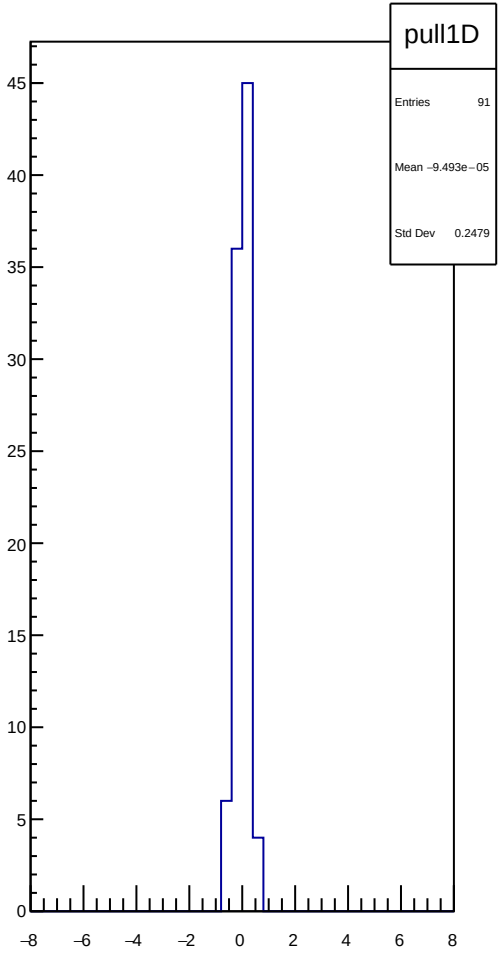

pull1D
Entries 91
Mean −0.01131
Std Dev 0.2908

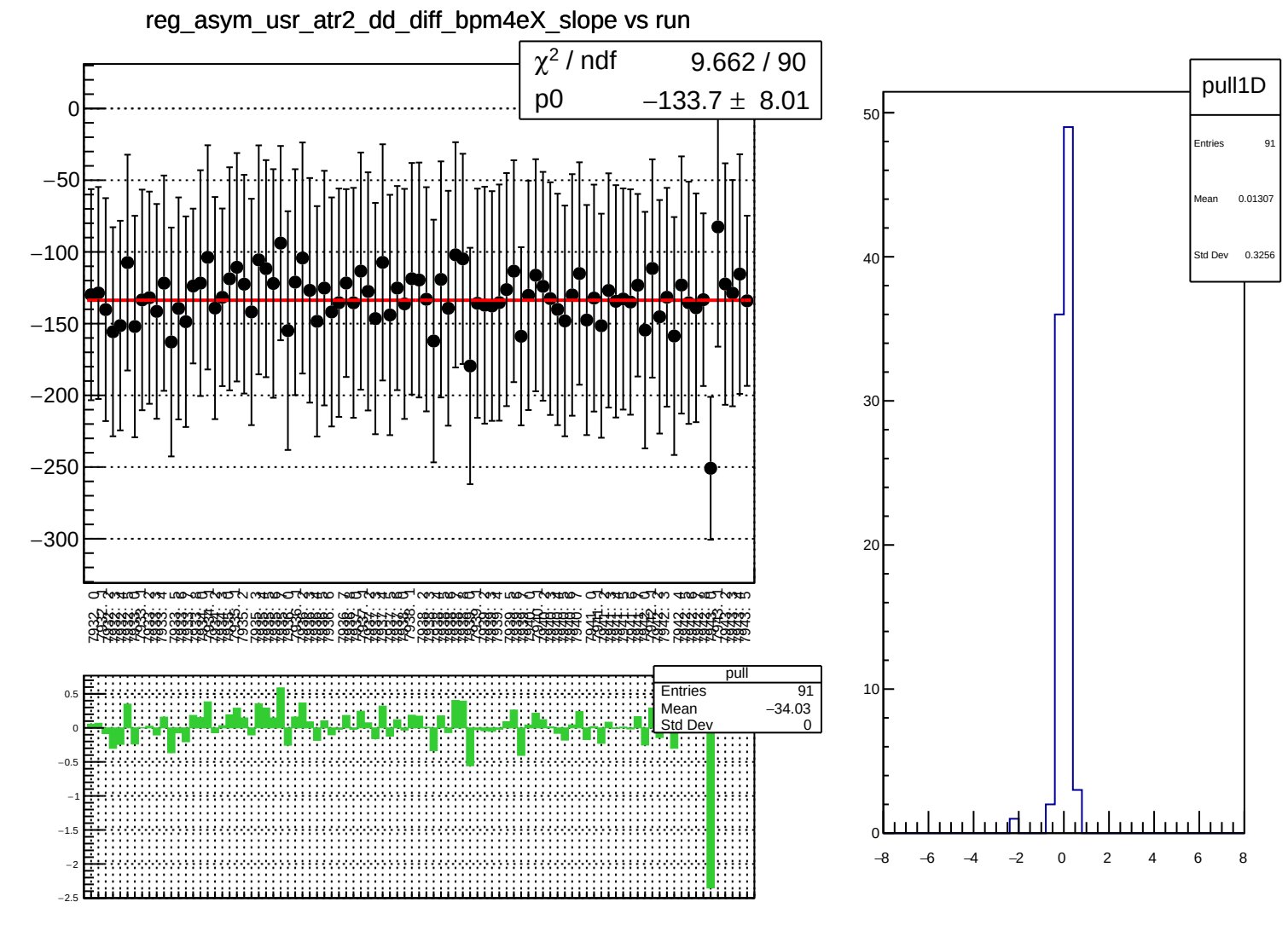

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.254 / 90
p0 −16.28 ± 16.24
200
100
0
−100
−200
−300
pull
Entries 91
Mean −309.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean −0.001508
Std Dev 0.1891
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

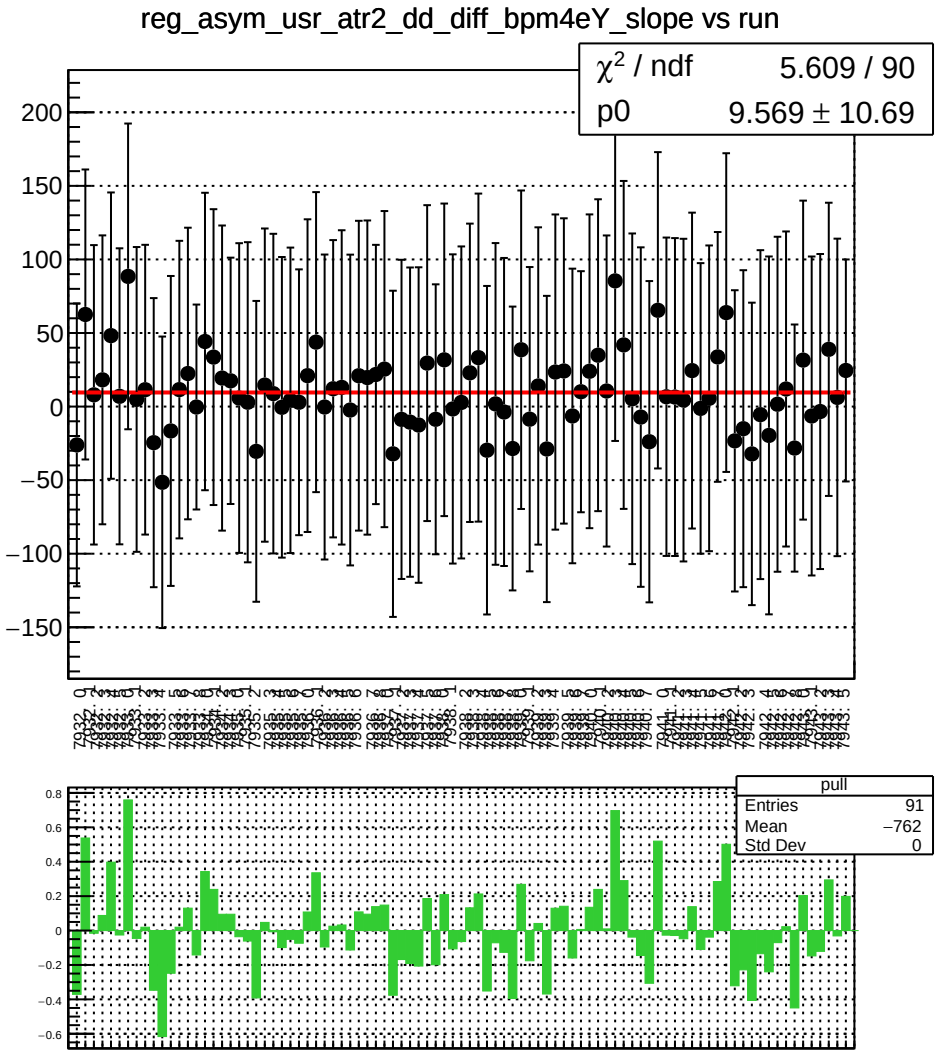

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 7.054 / 90
p0 −168.1 ± 0.4555
pull
Entries 91
Mean 200.9
Std Dev 0
pull1D
Entries 91
Mean −0.006413
Std Dev 0.2783

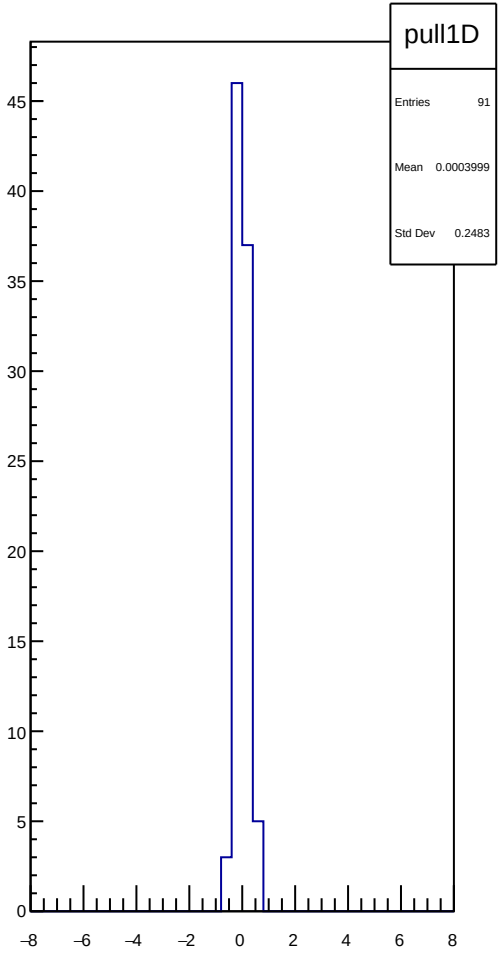

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.537 / 90
p0 123.2 ± 8.903
pull
Entries 91
Mean −41.28
Std Dev 0
pull1D
Entries 91
Mean −0.01198
Std Dev 0.3235

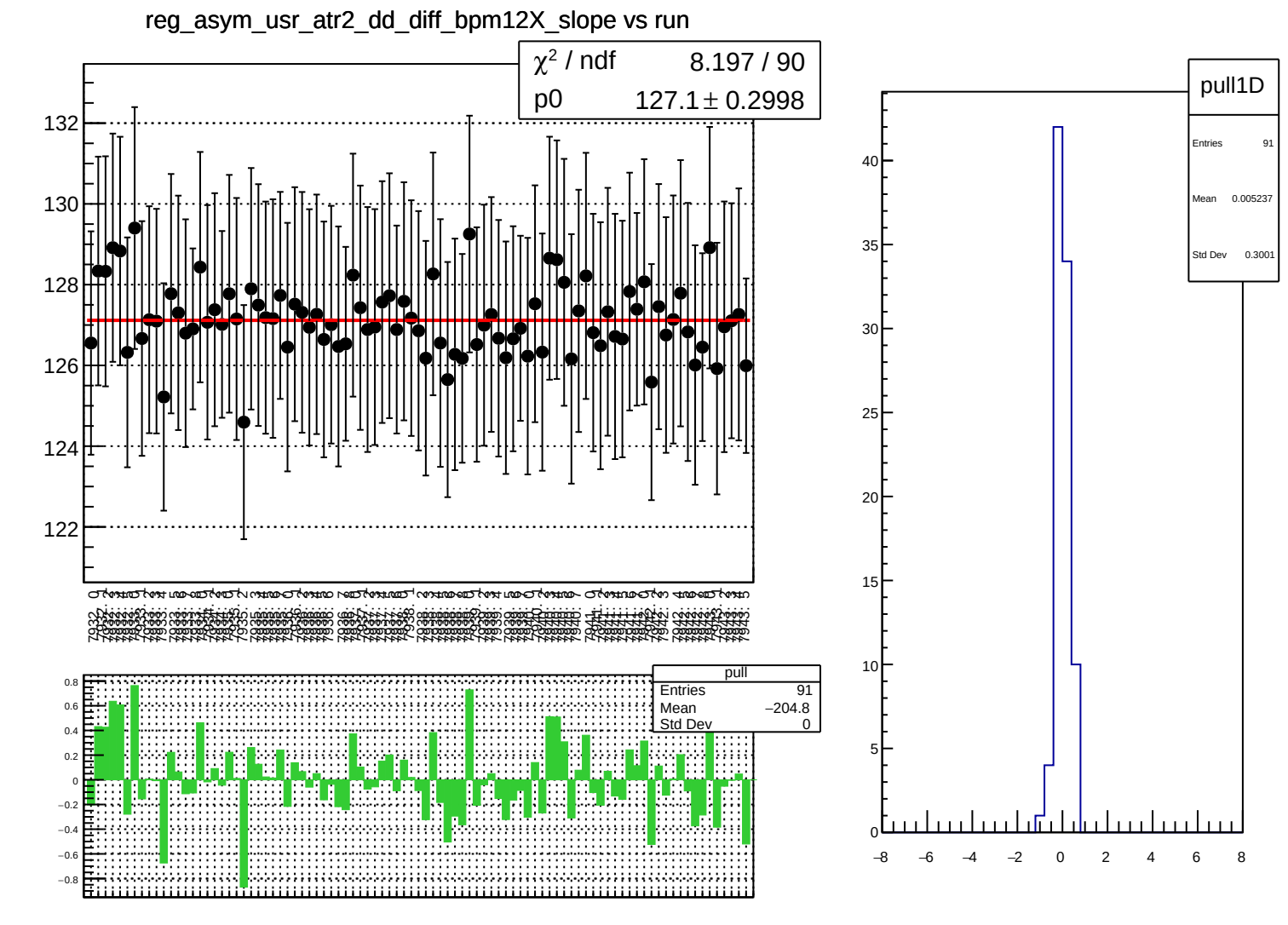

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.591 / 90
p0 −46.26 ± 9.272
pull
Entries 91
Mean −4587
Std Dev 0

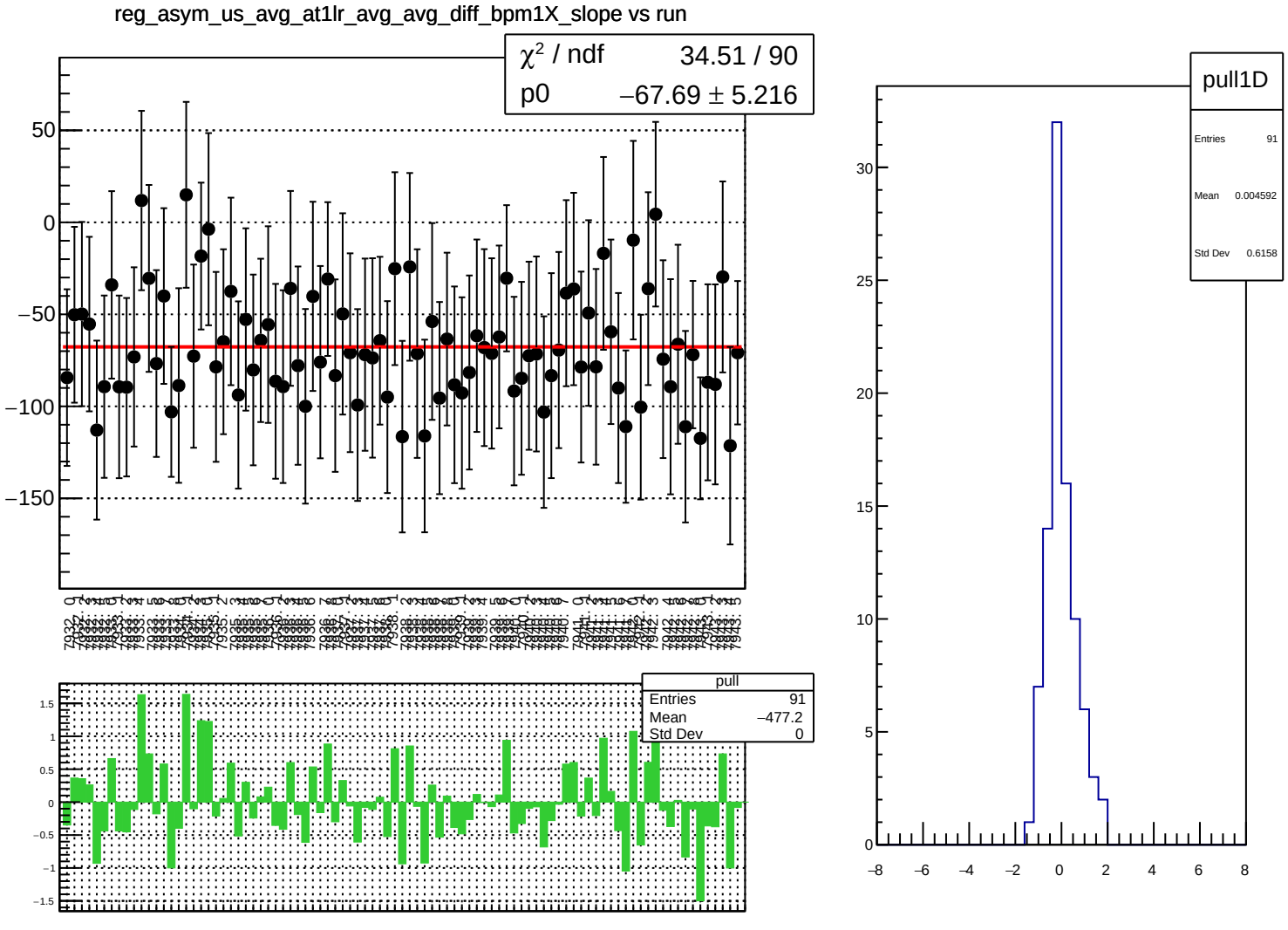

pull1D
Entries 91
Mean −9.493e−05
Std Dev 0.2479

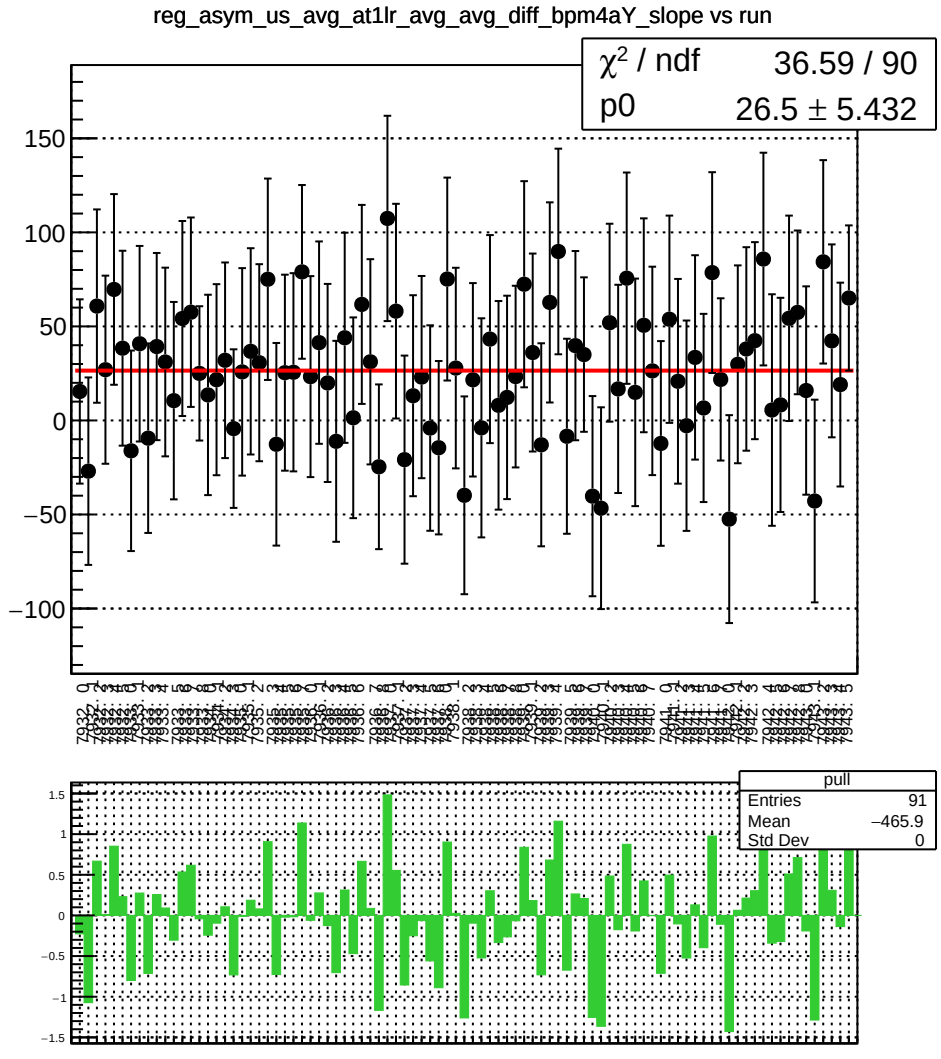

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.662 / 90
p0 −133.7 ± 8.01
pull
Entries 91
Mean −34.03
Std Dev 0
pull1D
Entries 91
Mean 0.01307
Std Dev 0.3256

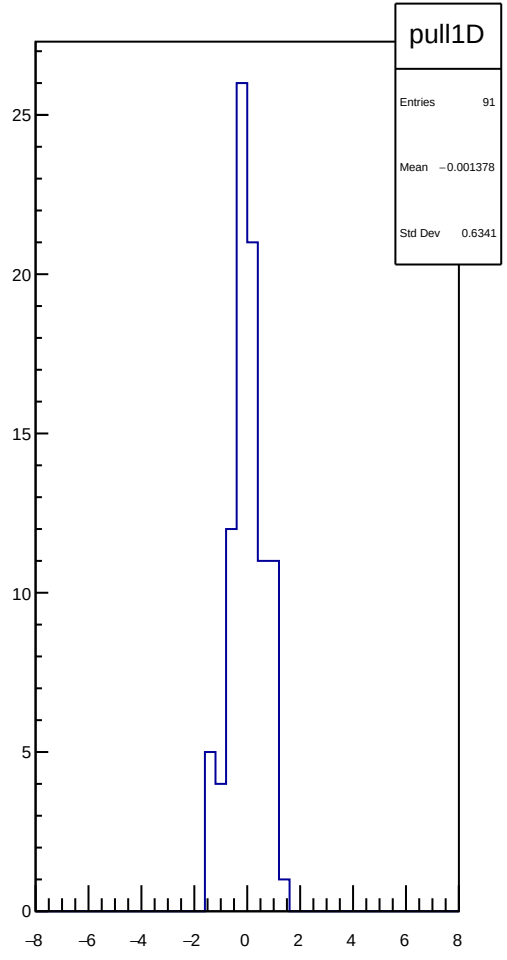

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.609 / 90
p0 9.569 ± 10.69
pull
Entries 91
Mean −762
Std Dev 0

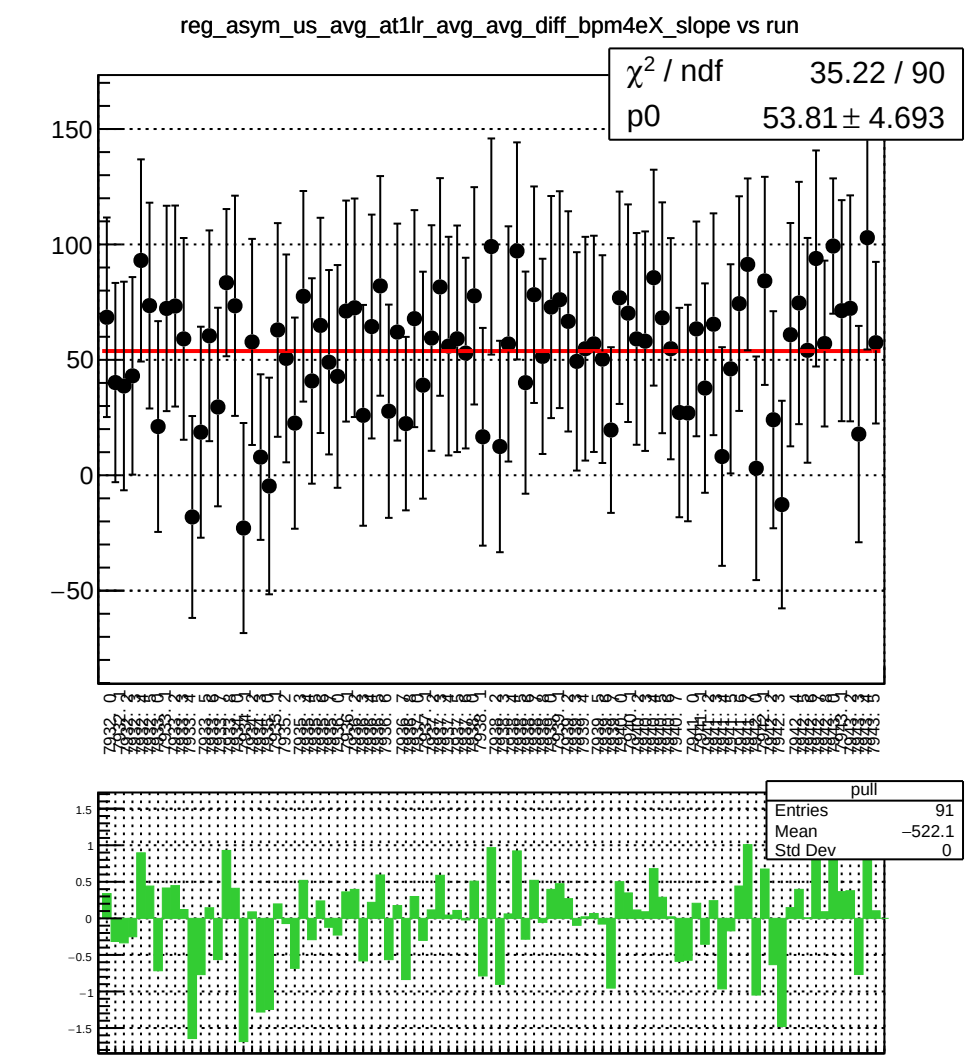

pull1D
Entries 91
Mean 0.0003999
Std Dev 0.2483

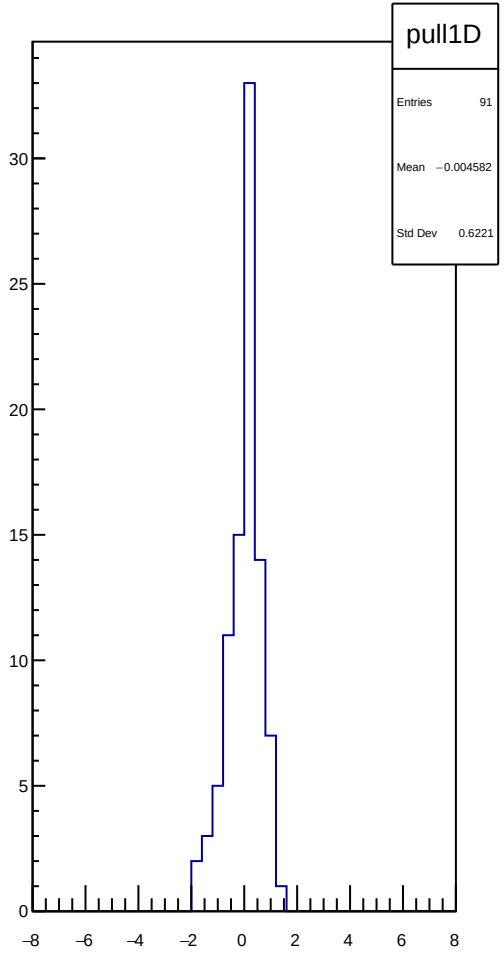

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 8.197 / 90
p0 127.1 ± 0.2998
132
130
128
126
124
122
pull
Entries 91
Mean −204.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 91
Mean 0.005237
Std Dev 0.3001
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

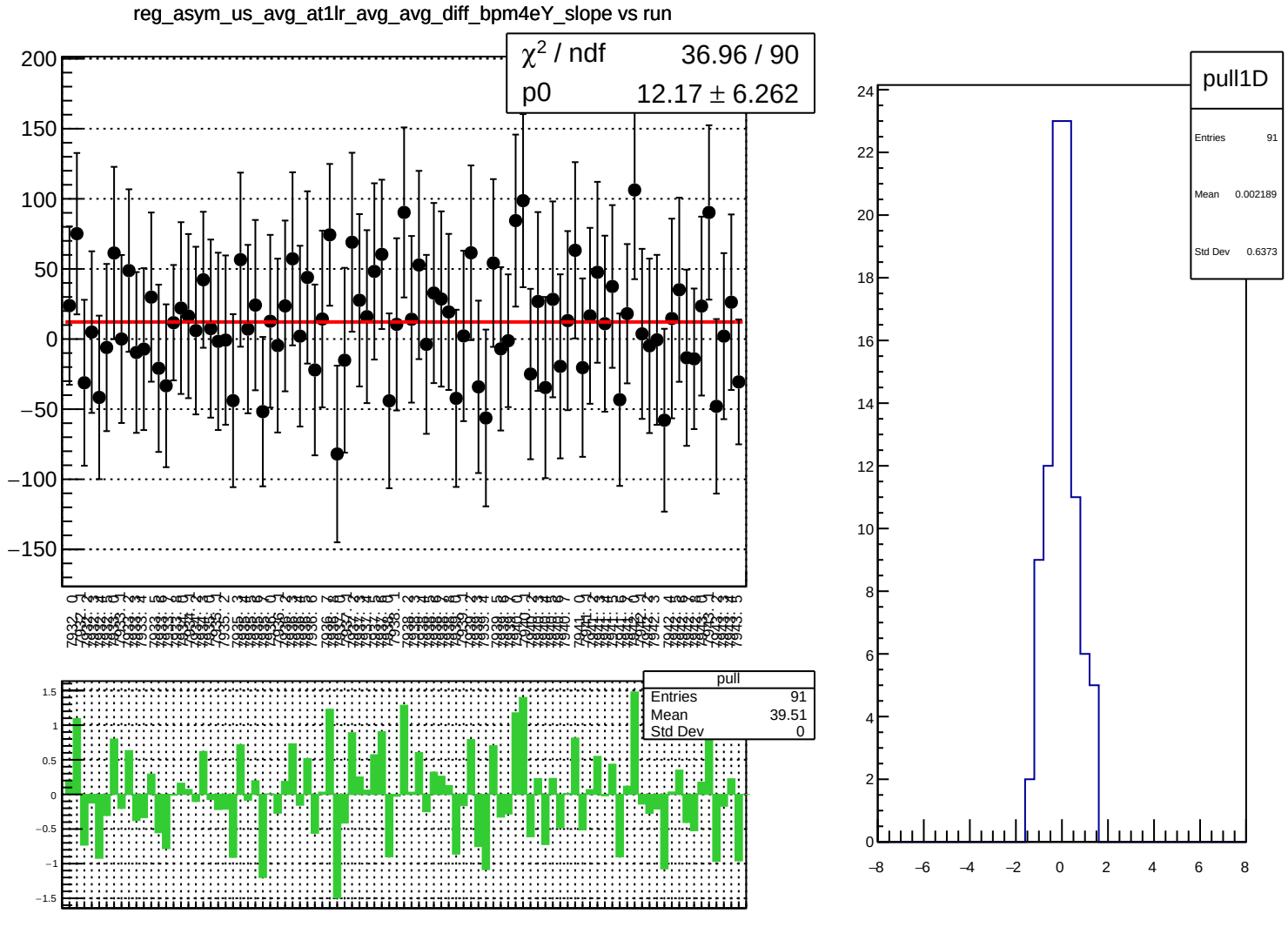

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 34.51 / 90
p0 −67.69 ± 5.216
pull
Entries 91
Mean −477.2
Std Dev 0
pull1D
Entries 91
Mean 0.004592
Std Dev 0.6158

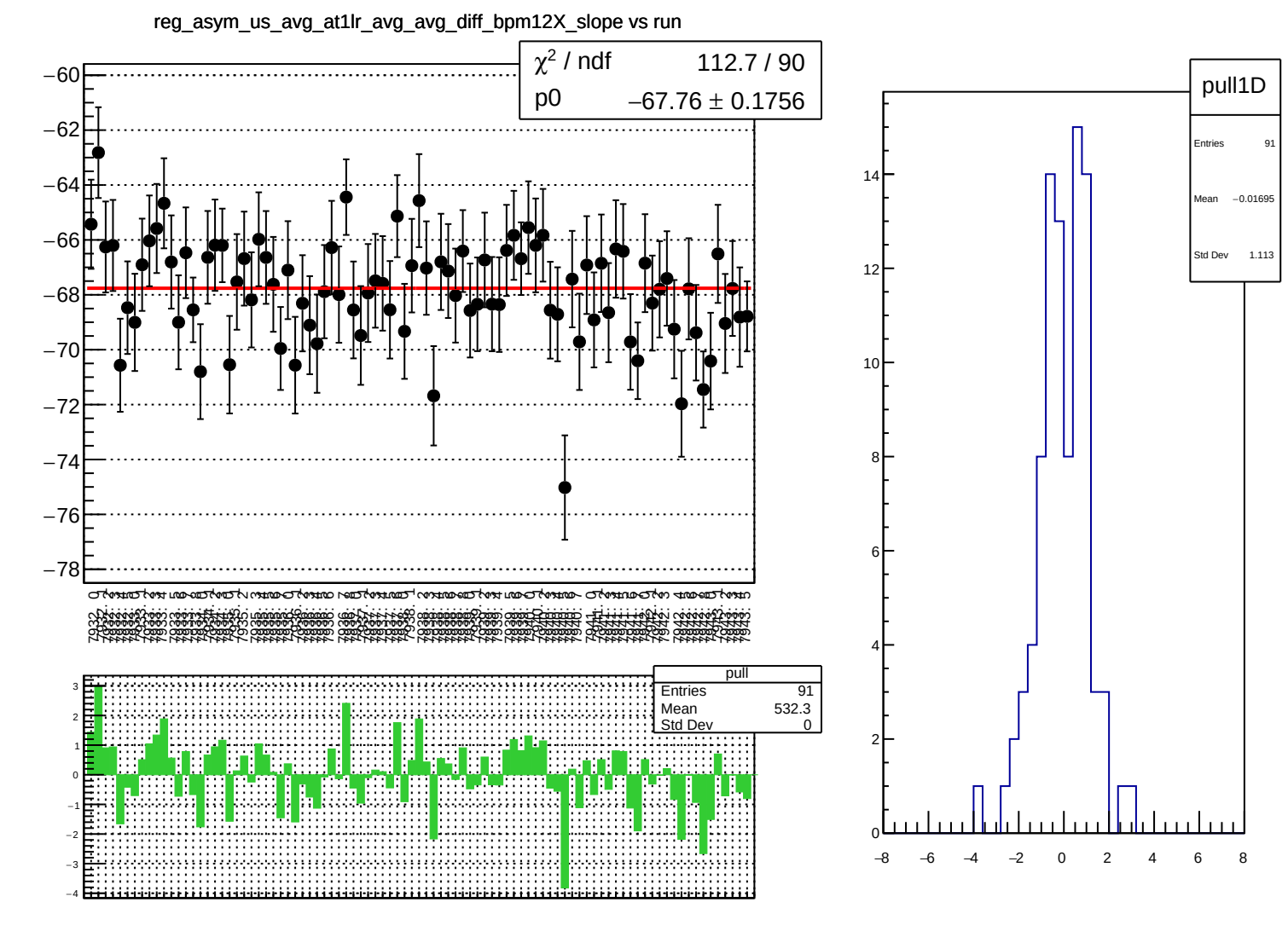

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.59 / 90
p0 26.5 ± 5.432
150
100
50
0
−50
−100
pull
Entries 91
Mean −465.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

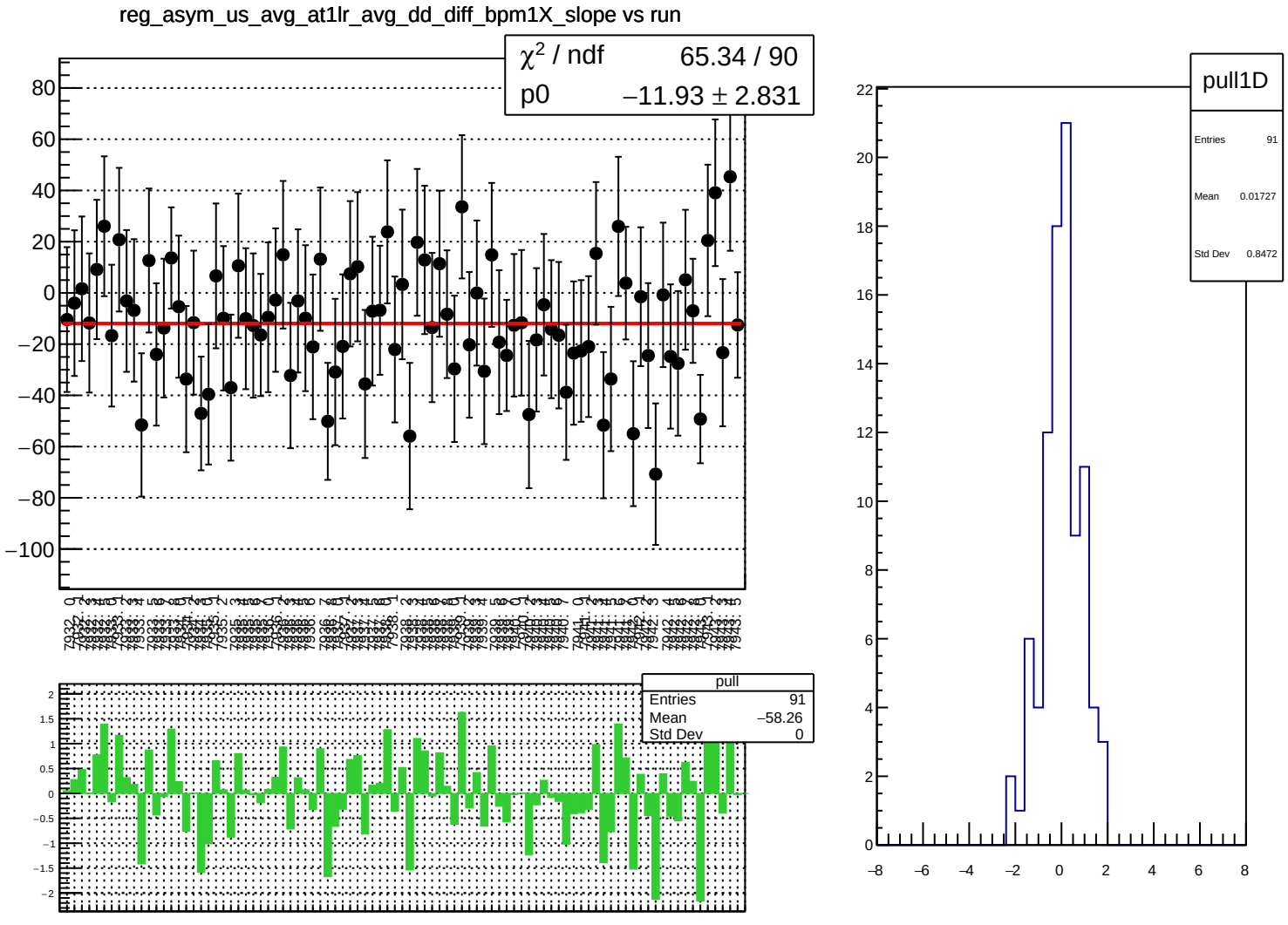

pull1D
Entries 91
Mean −0.001378
Std Dev 0.6341
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

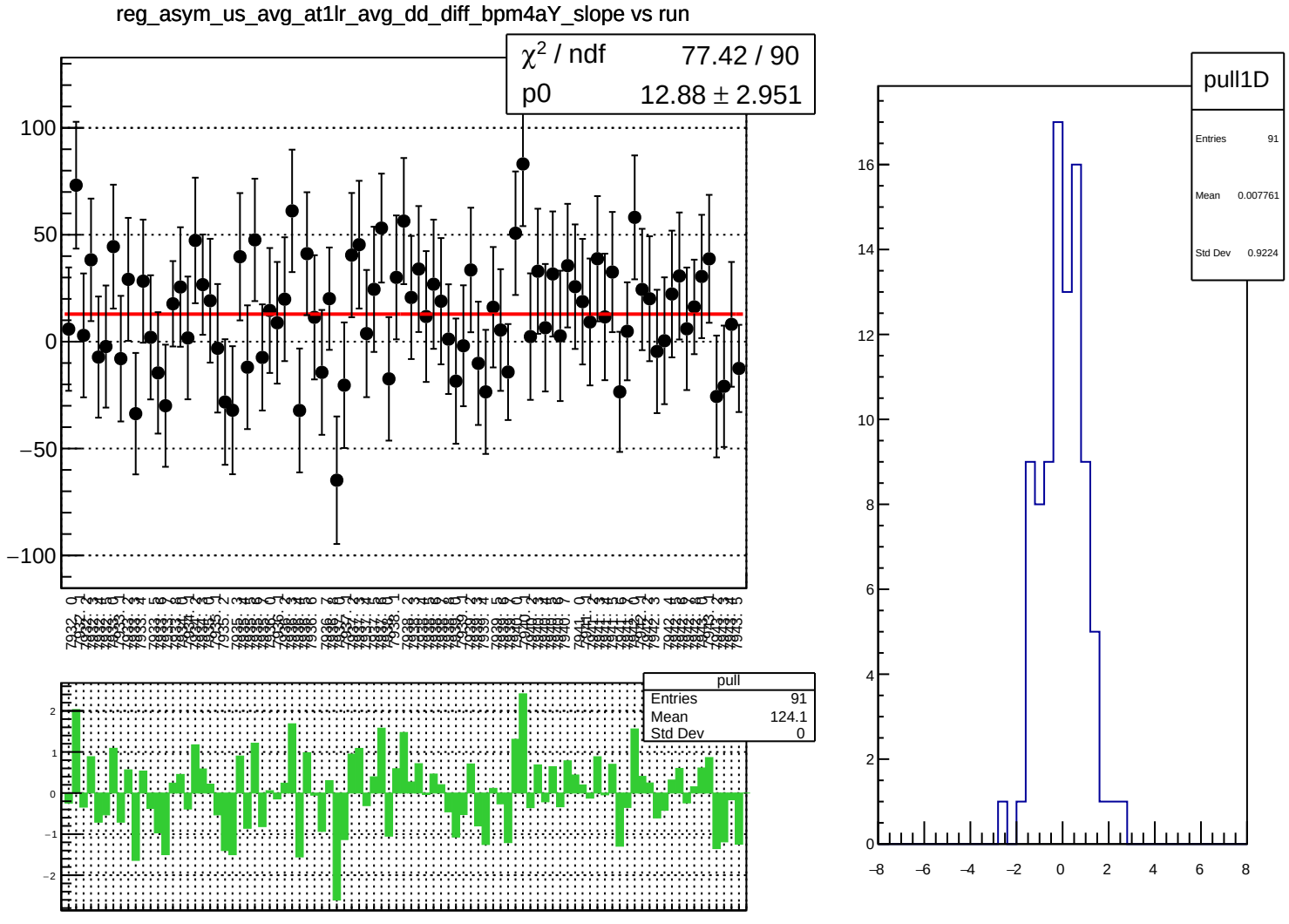

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.22 / 90
p0 53.81 ± 4.693
150
100
50
0
−50
pull
Entries 91
Mean −522.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

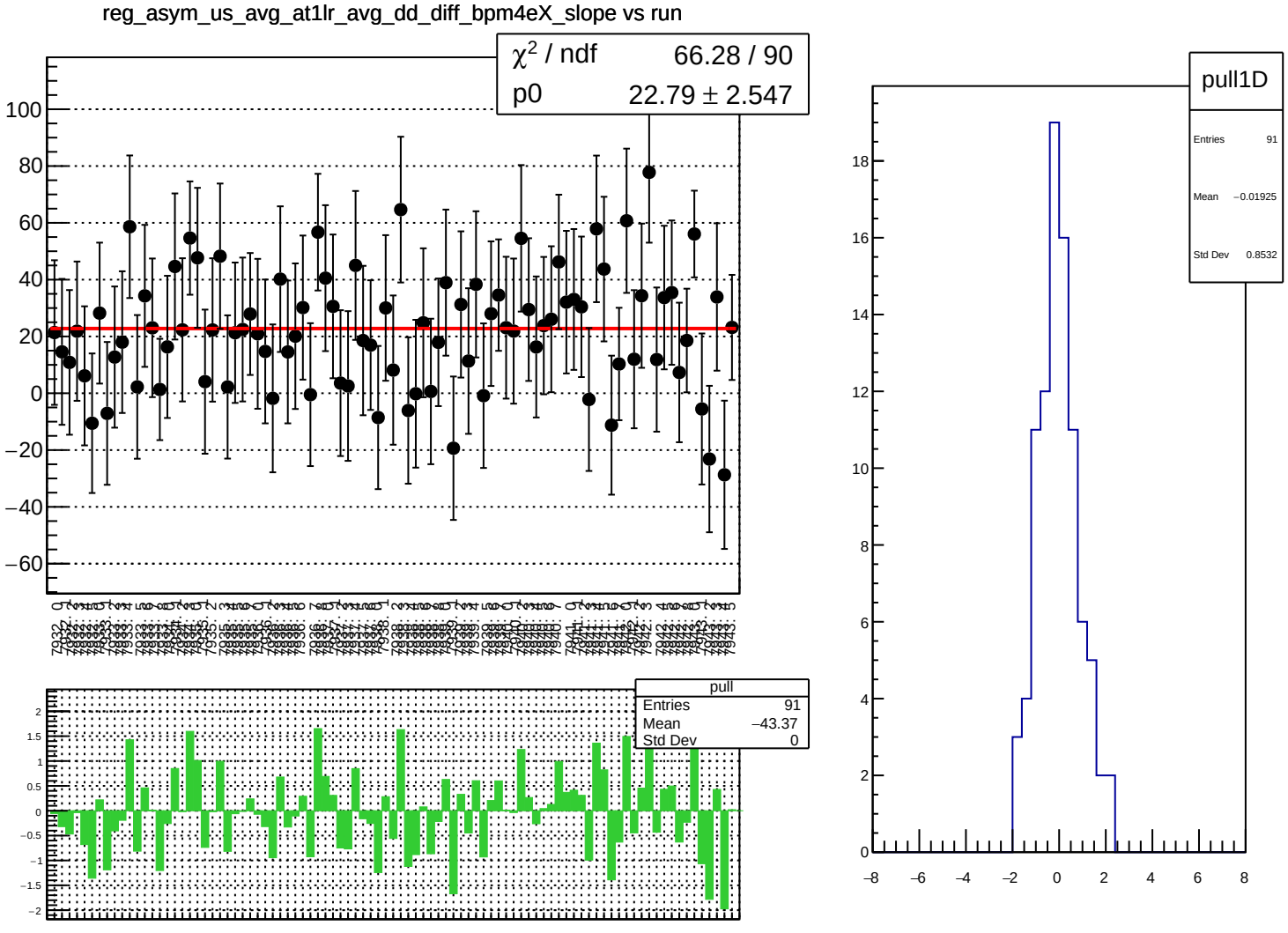

pull1D
Entries 91
Mean −0.004582
Std Dev 0.6221
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

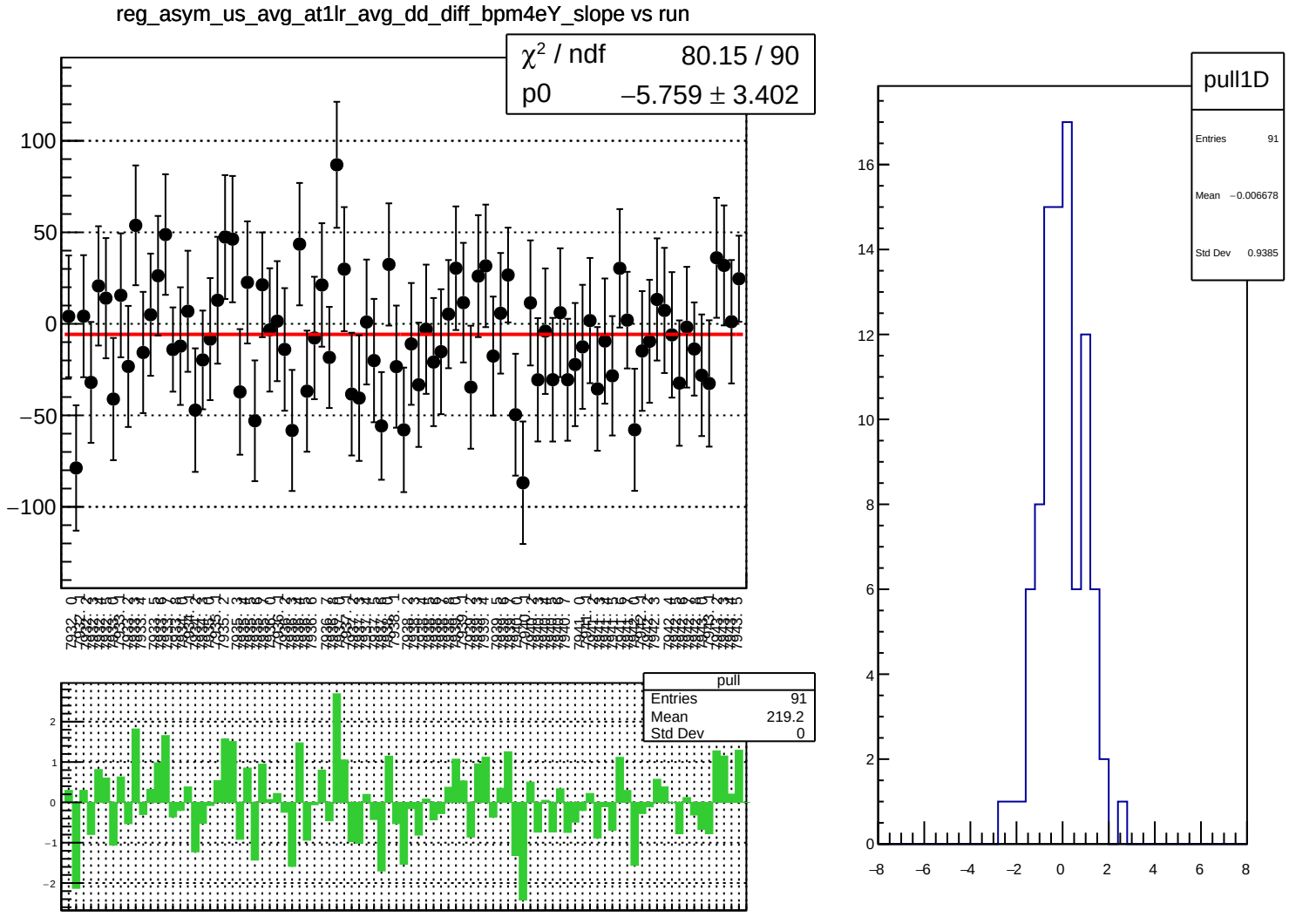

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.96 / 90
p0 12.17 ± 6.262
pull
Entries 91
Mean 39.51
Std Dev 0
pull1D
Entries 91
Mean 0.002189
Std Dev 0.6373

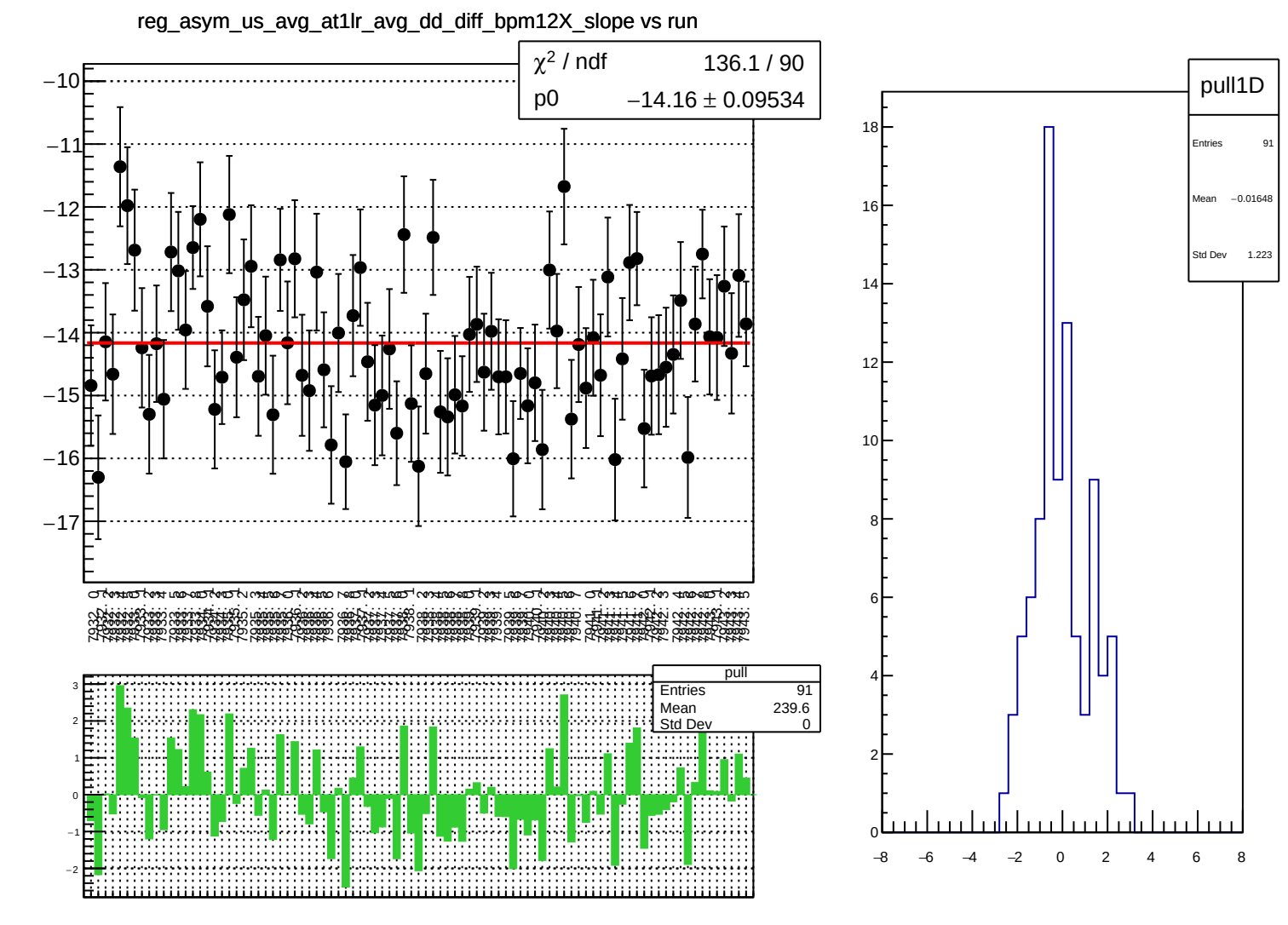

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 112.7 / 90
p0 −67.76 ± 0.1756
pull
Entries 91
Mean 532.3
Std Dev 0
pull1D
Entries 91
Mean −0.01695
Std Dev 1.113

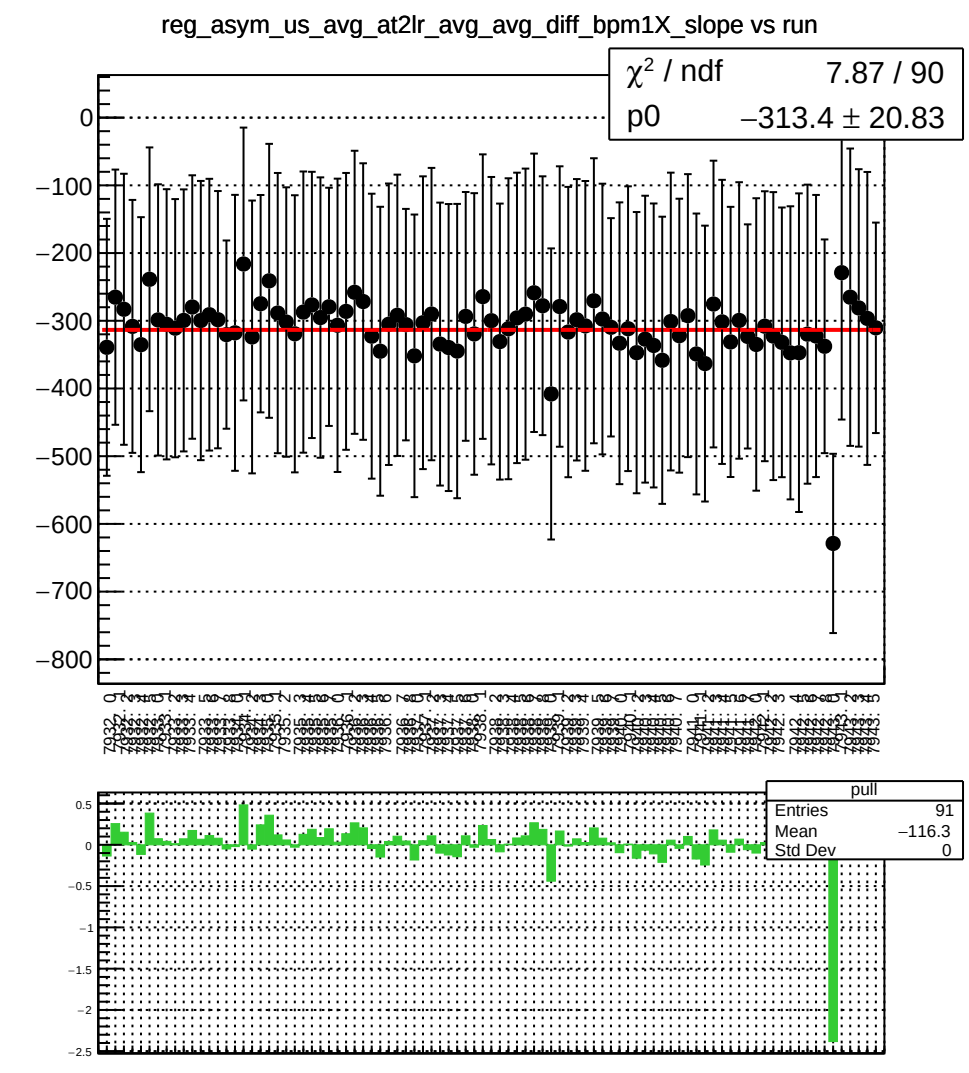

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 65.34 / 90
p0 −11.93 ± 2.831
pull
Entries 91
Mean −58.26
Std Dev 0
pull1D
Entries 91
Mean 0.01727
Std Dev 0.8472

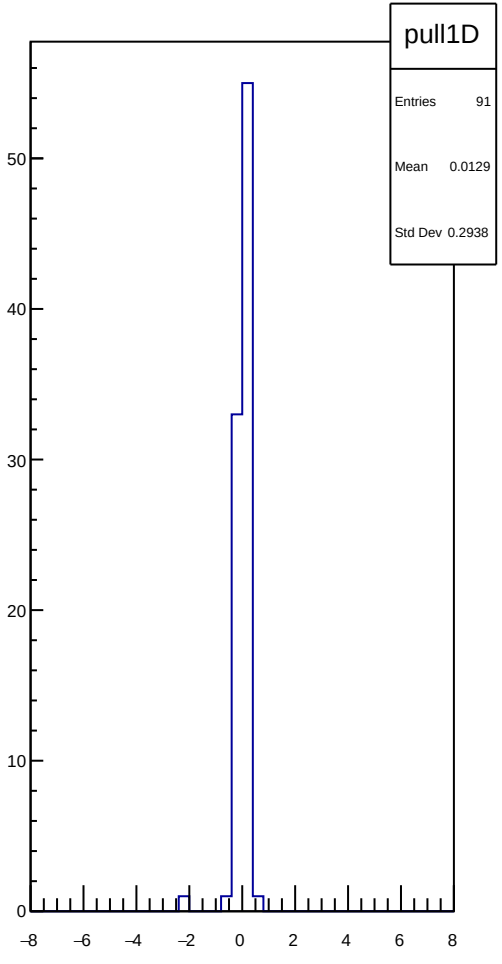

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.42 / 90
p0 12.88 ± 2.951
100
50
0
−50
−100
pull
Entries 91
Mean 124.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.007761
Std Dev 0.9224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

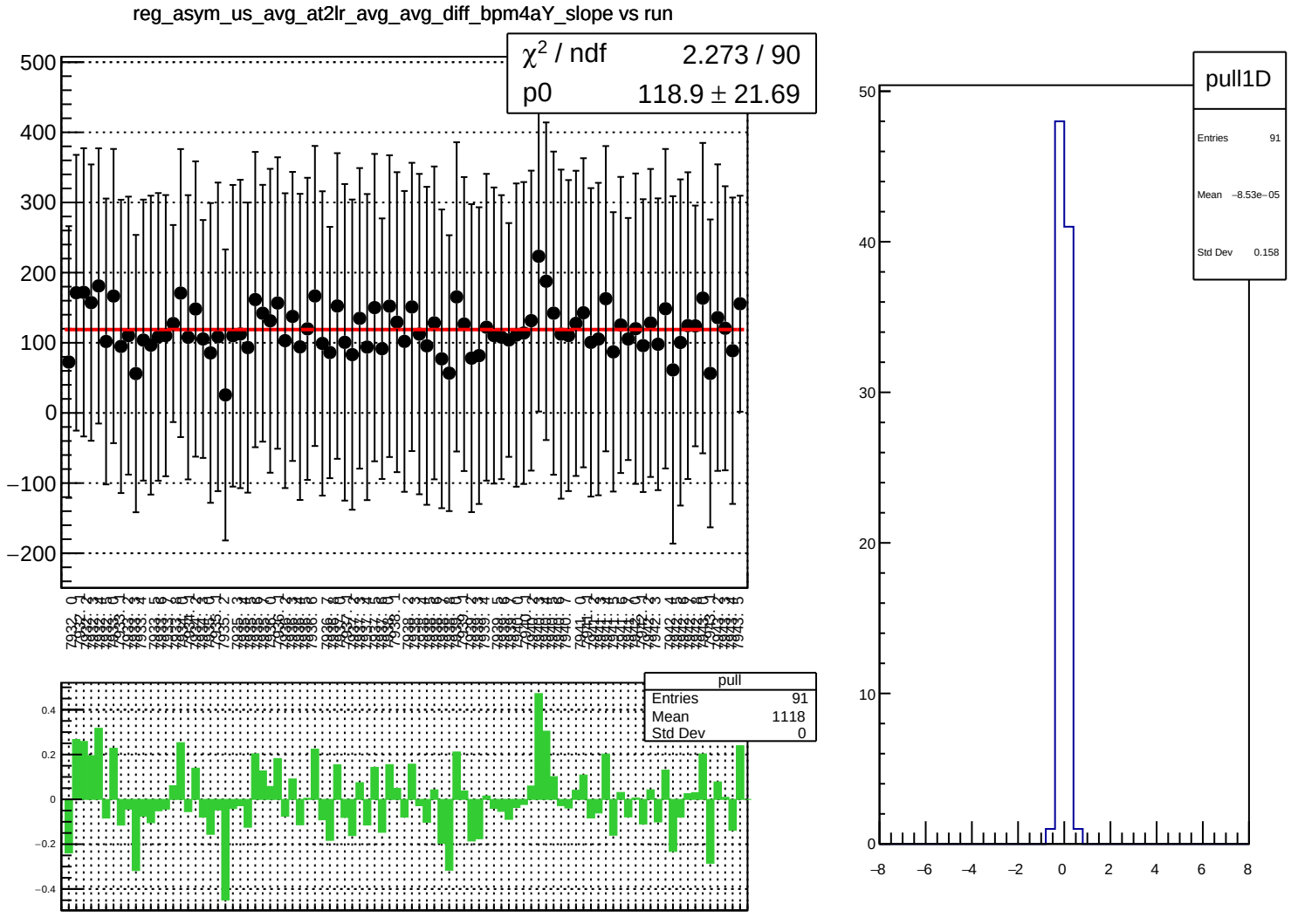

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.28 / 90
p0 22.79 ± 2.547
pull
Entries 91
Mean −43.37
Std Dev 0
pull1D
Entries 91
Mean −0.01925
Std Dev 0.8532

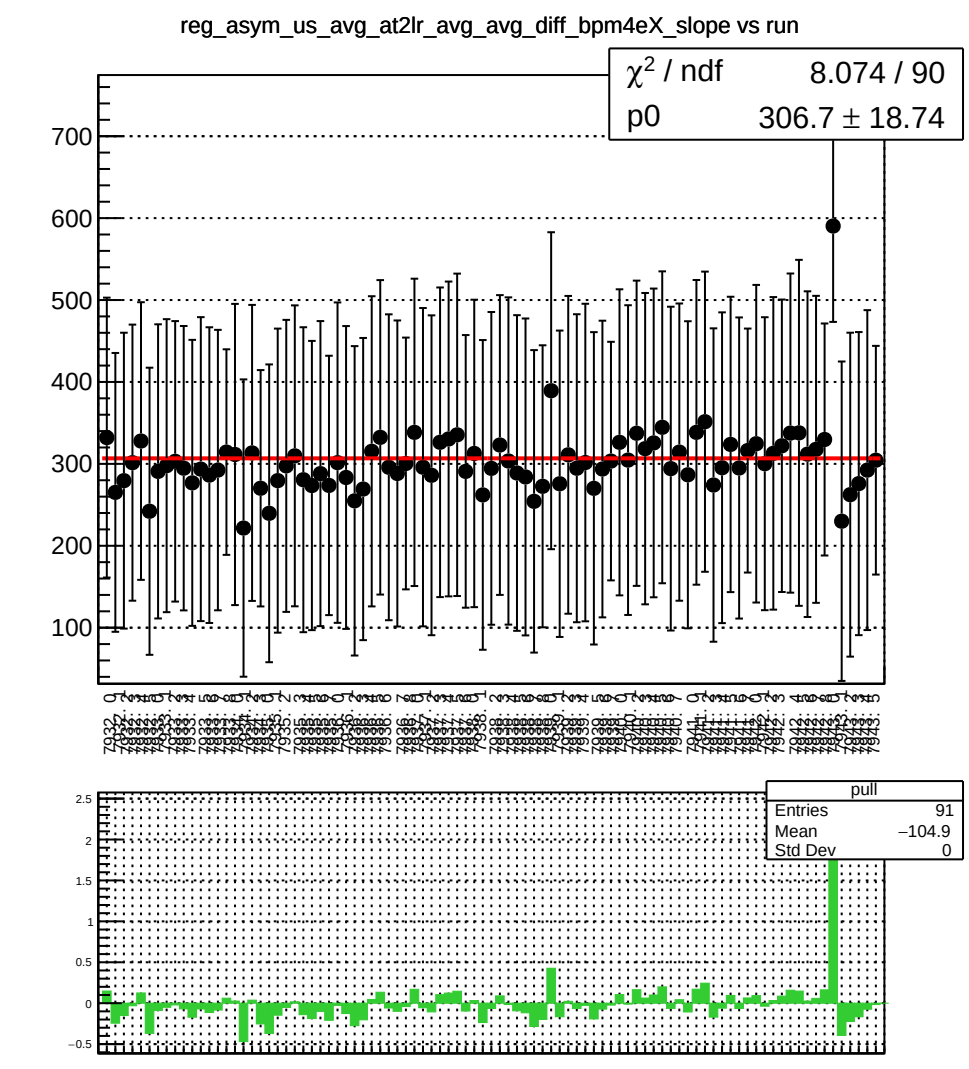

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.15 / 90
p0 −5.759 ± 3.402
100
50
0
−50
−100
pull
Entries 91
Mean 219.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.006678
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

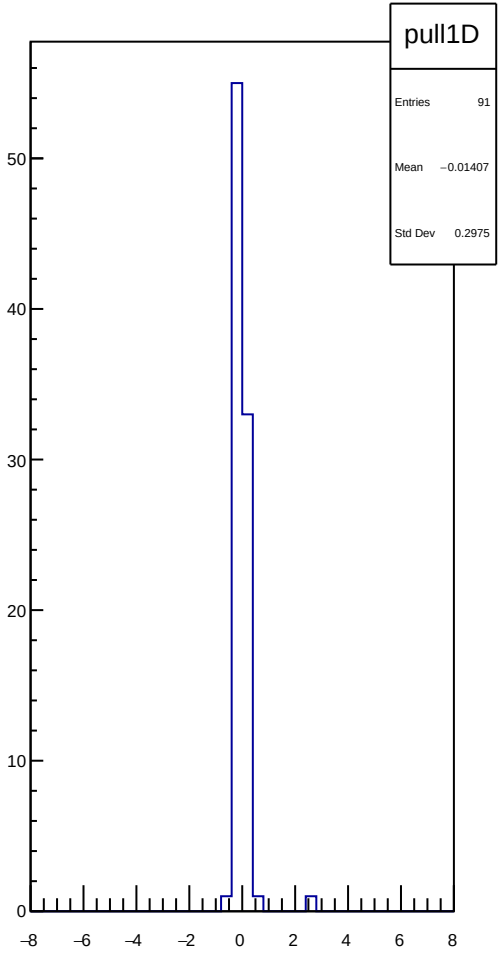

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 136.1 / 90
p0 −14.16 ± 0.09534
pull
Entries 91
Mean 239.6
Std Dev 0
pull1D
Entries 91
Mean −0.01648
Std Dev 1.223

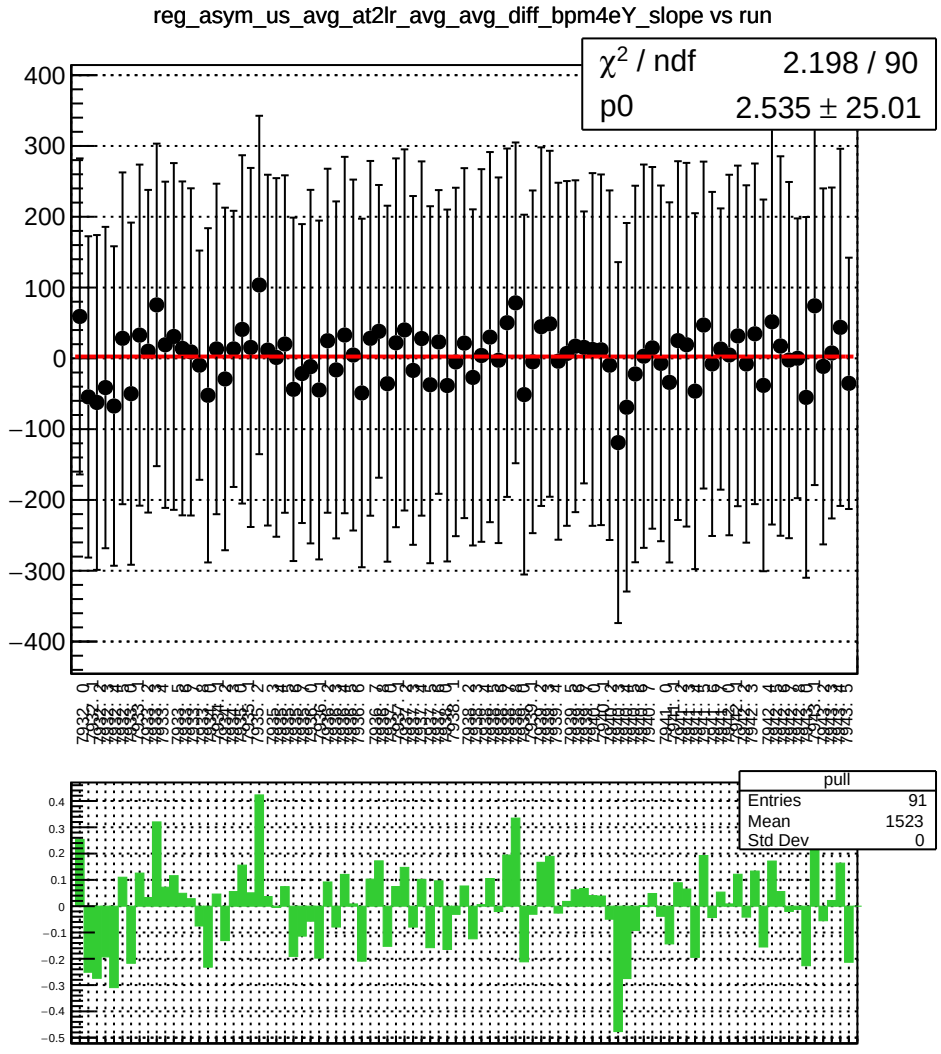

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.87 / 90
p0 −313.4 ± 20.83
pull
Entries 91
Mean −116.3
Std Dev 0

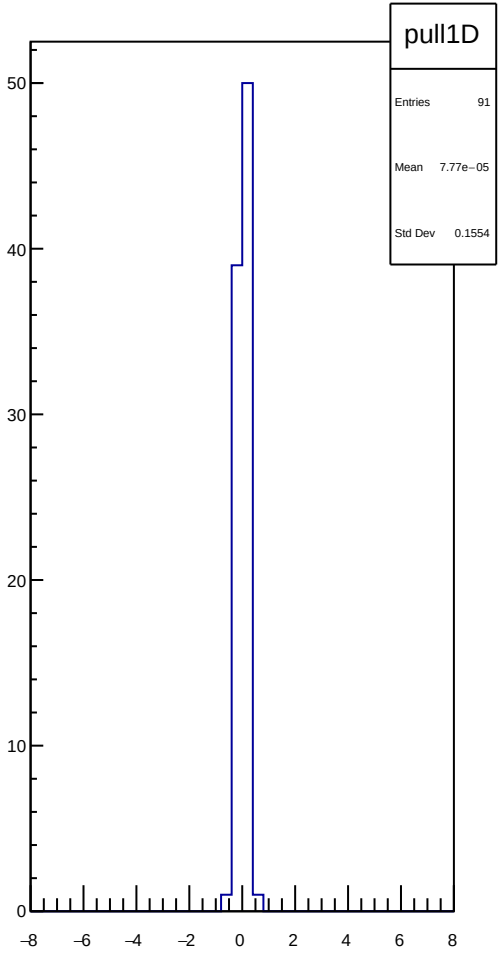

pull1D
Entries 91
Mean 0.0129
Std Dev 0.2938

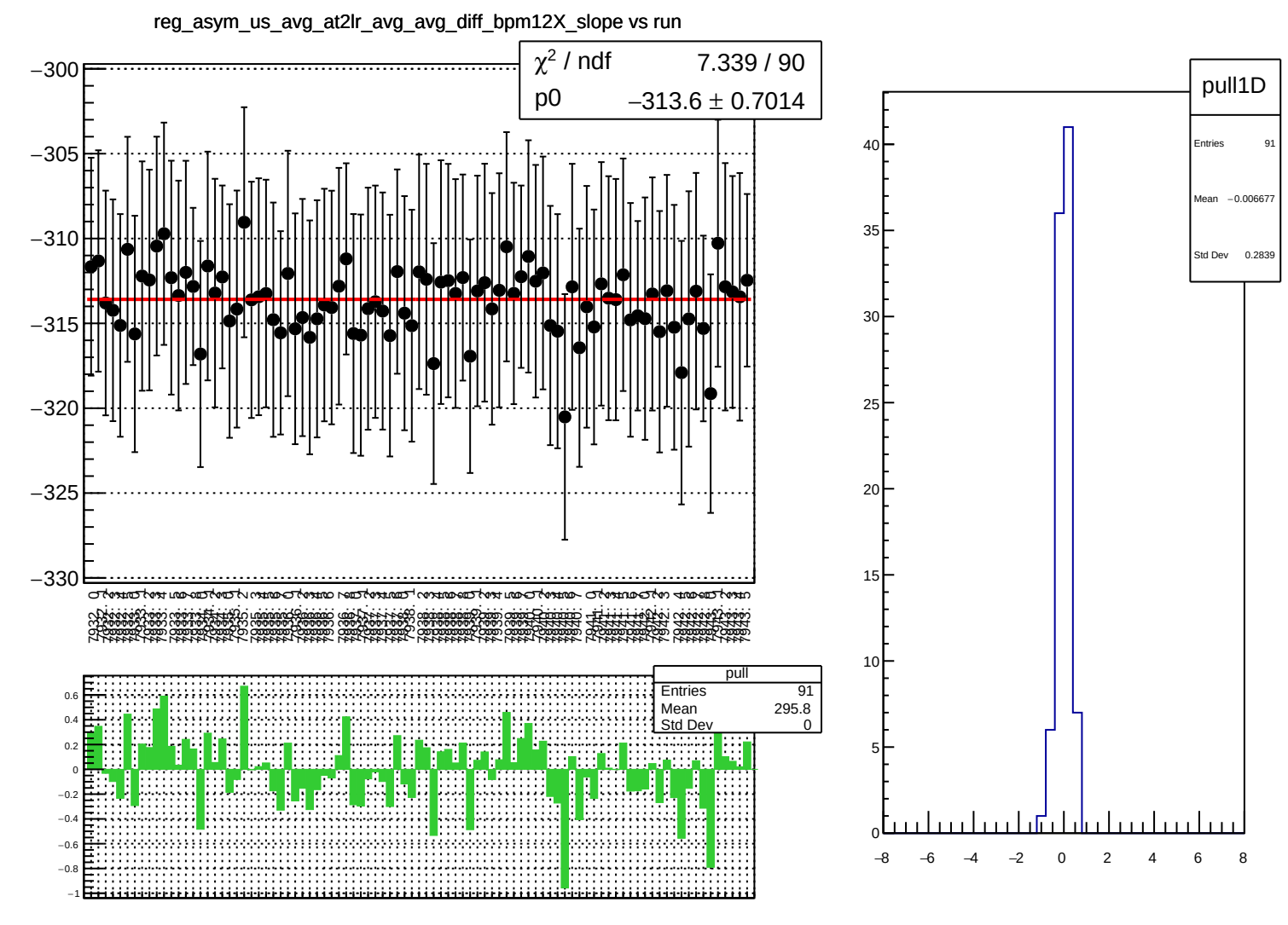

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.273 / 90
p0 118.9 ± 21.69
pull
Entries 91
Mean 1118
Std Dev 0
pull1D
Entries 91
Mean −8.53e−05
Std Dev 0.158

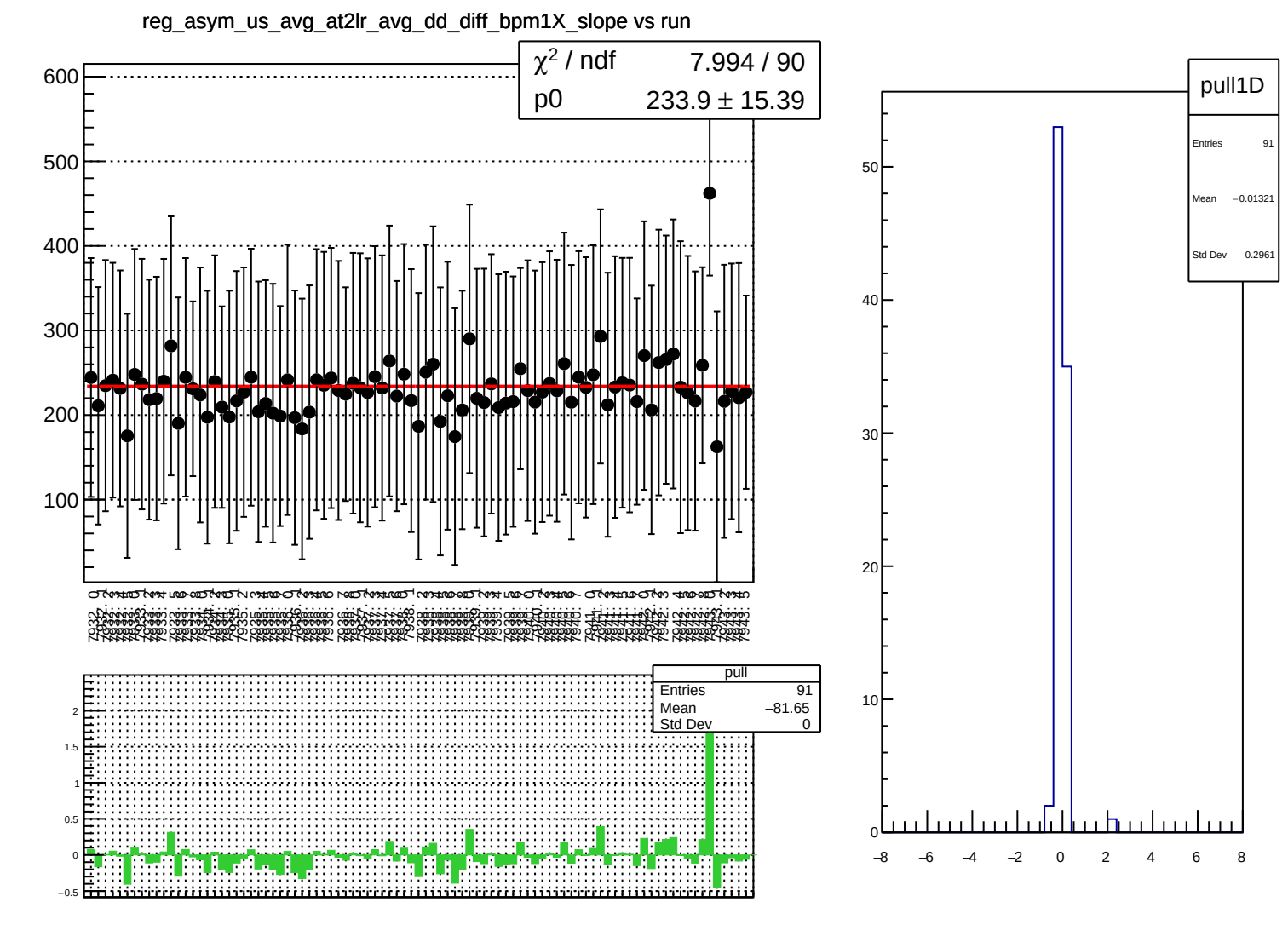

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.074 / 90
p0 306.7 ± 18.74
700
600
500
400
300
200
100
pull
Entries 91
Mean −104.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5

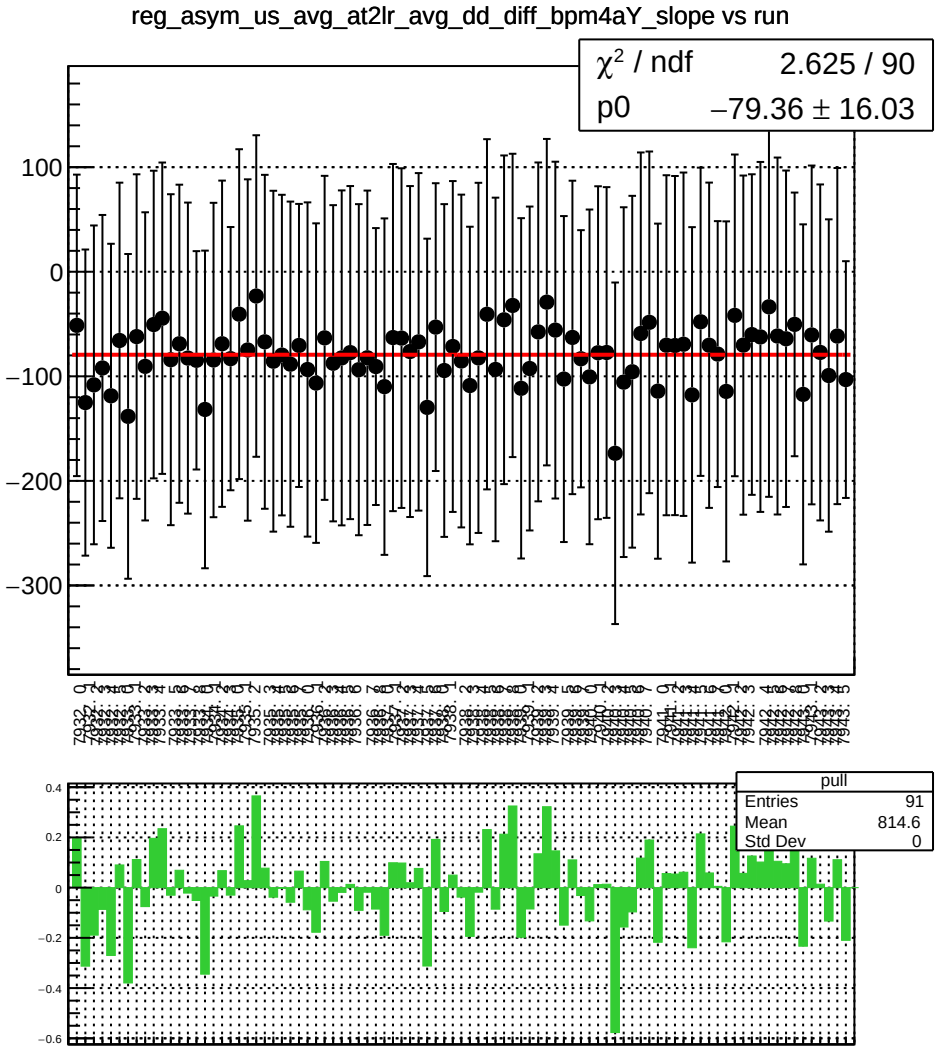

pull1D
Entries 91
Mean −0.01407
Std Dev 0.2975
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

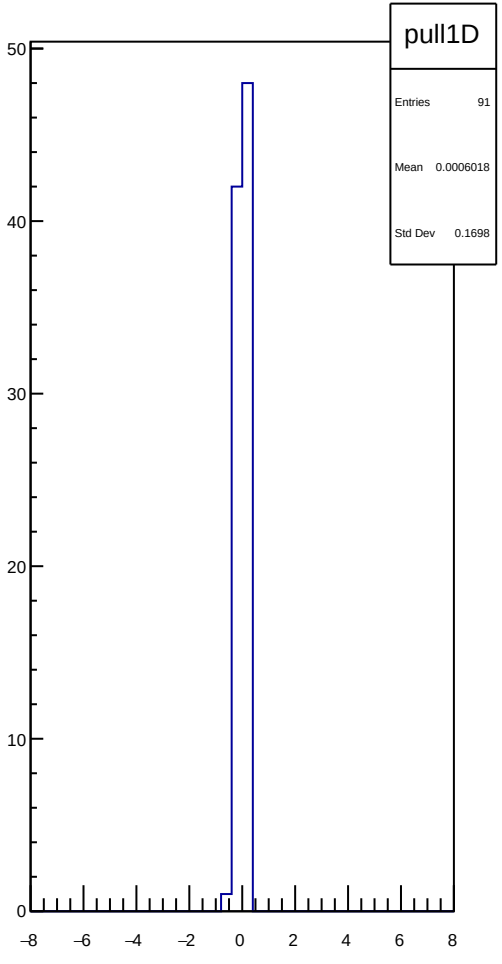

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.198 / 90
p0 2.535 ± 25.01
pull
Entries 91
Mean 1523
Std Dev 0

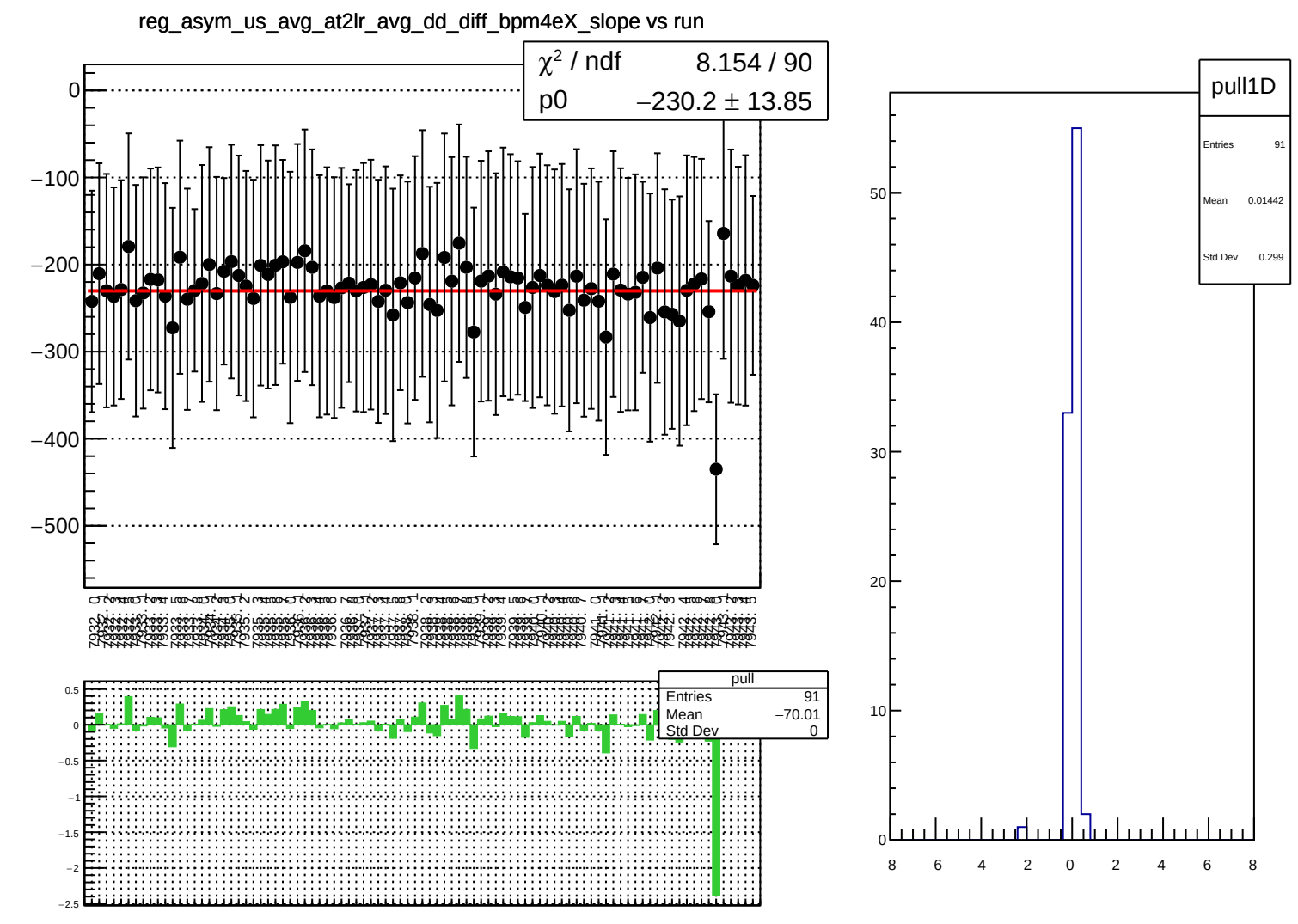

pull1D
Entries 91
Mean 7.77e−05
Std Dev 0.1554

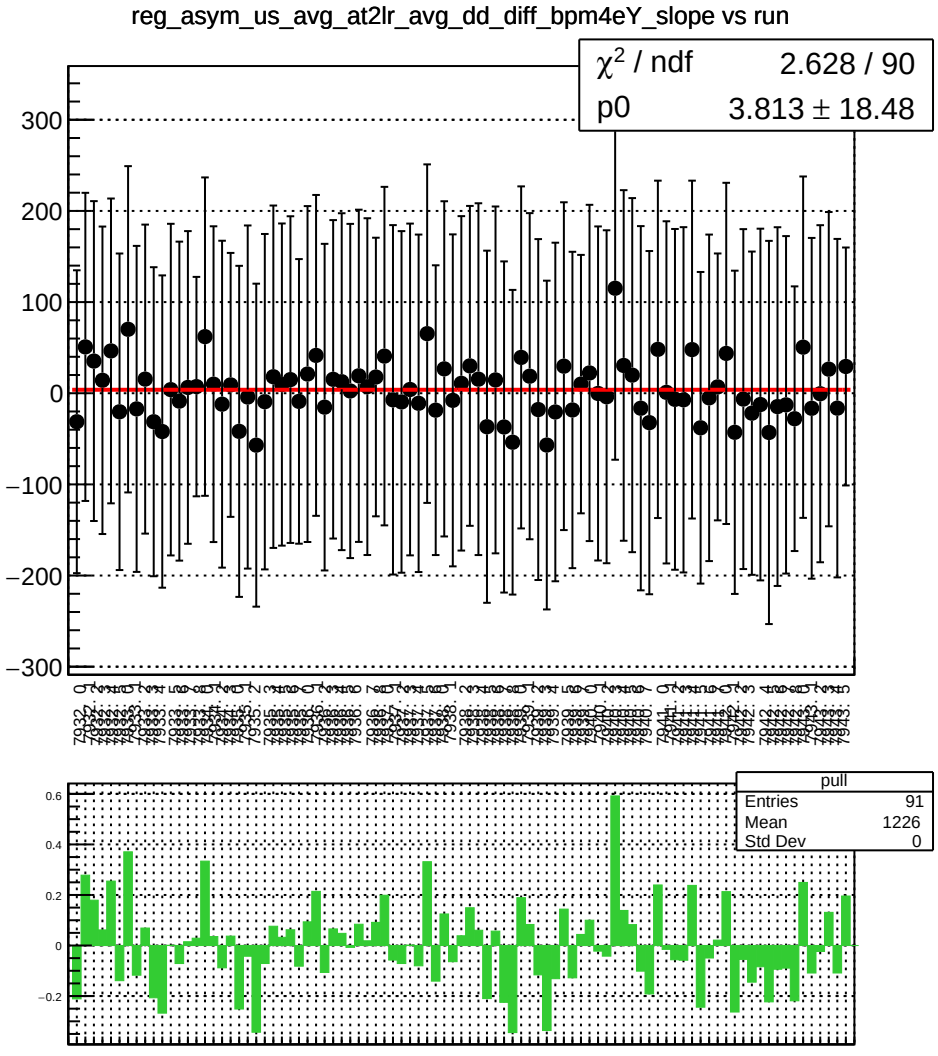

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 7.339 / 90
p0 −313.6 ± 0.7014
pull
Entries 91
Mean 295.8
Std Dev 0
pull1D
Entries 91
Mean −0.006677
Std Dev 0.2839

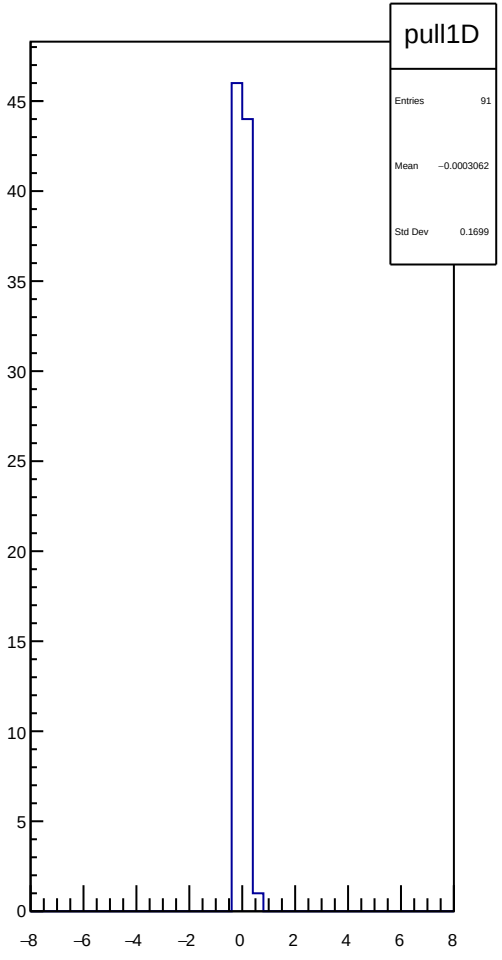

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.994 / 90
p0 233.9 ± 15.39
600
500
400
300
200
100
pull
Entries 91
Mean −81.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.01321
Std Dev 0.2961
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

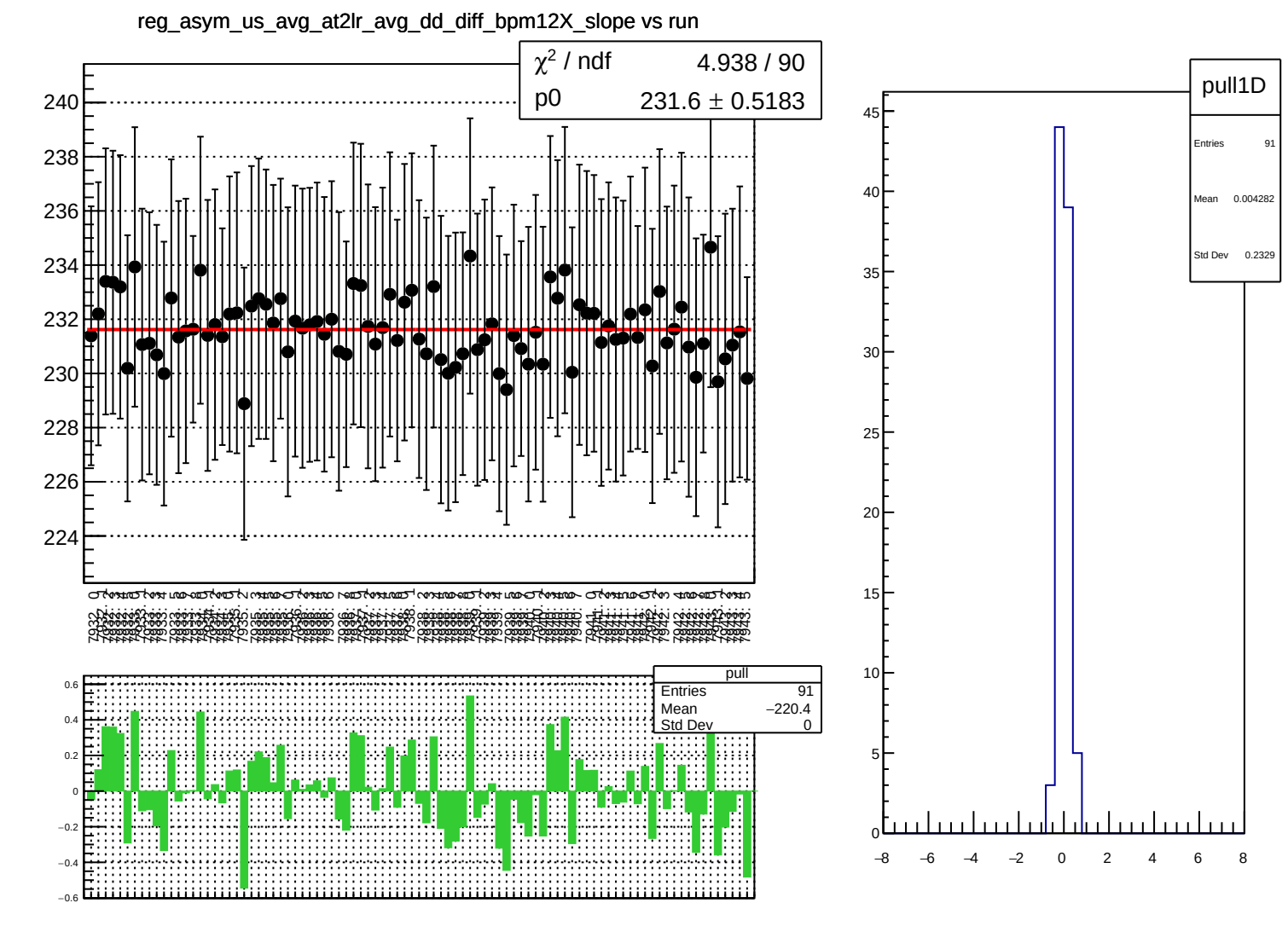

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.625 / 90
p0 −79.36 ± 16.03
pull
Entries 91
Mean 814.6
Std Dev 0

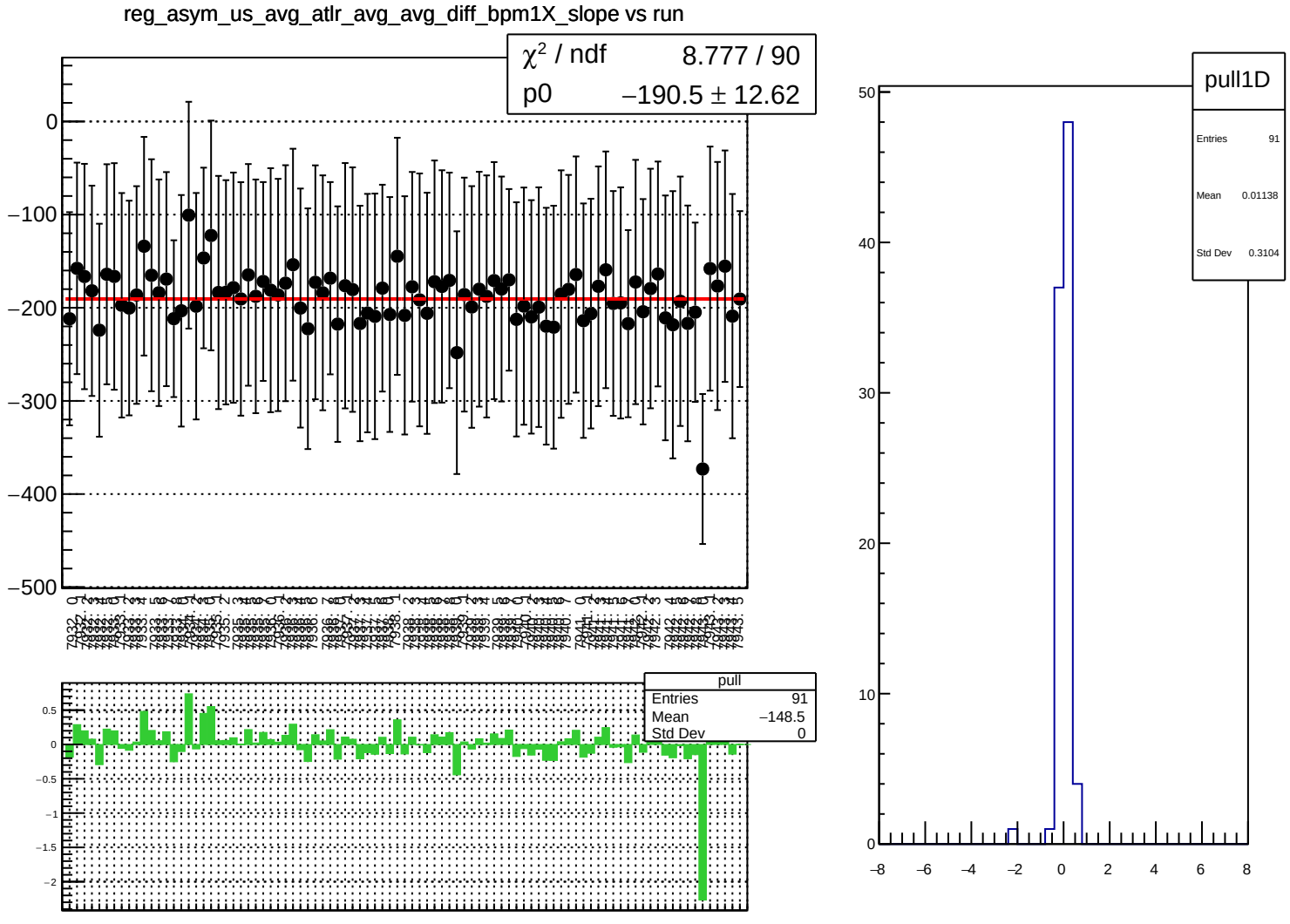

pull1D
Entries 91
Mean 0.0006018
Std Dev 0.1698

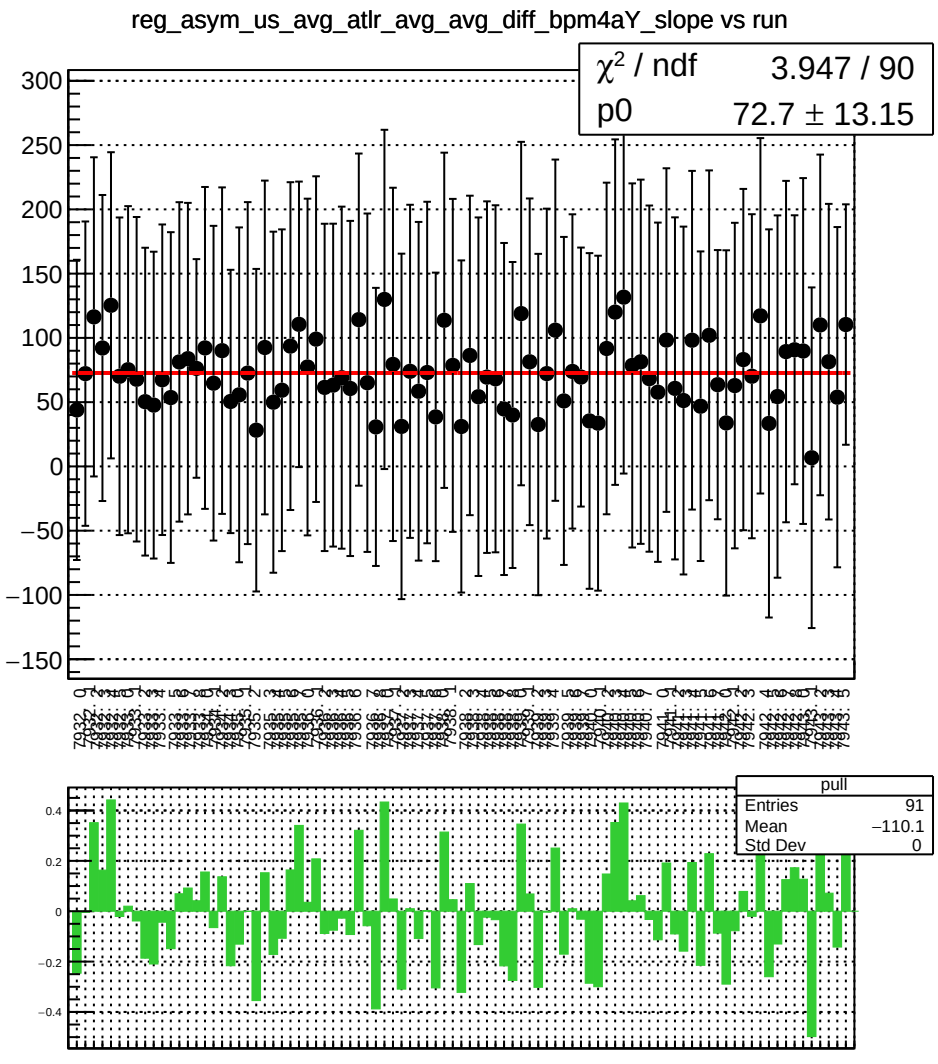

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.154 / 90
p0 −230.2 ± 13.85
pull
Entries 91
Mean −70.01
Std Dev 0
pull1D
Entries 91
Mean 0.01442
Std Dev 0.299

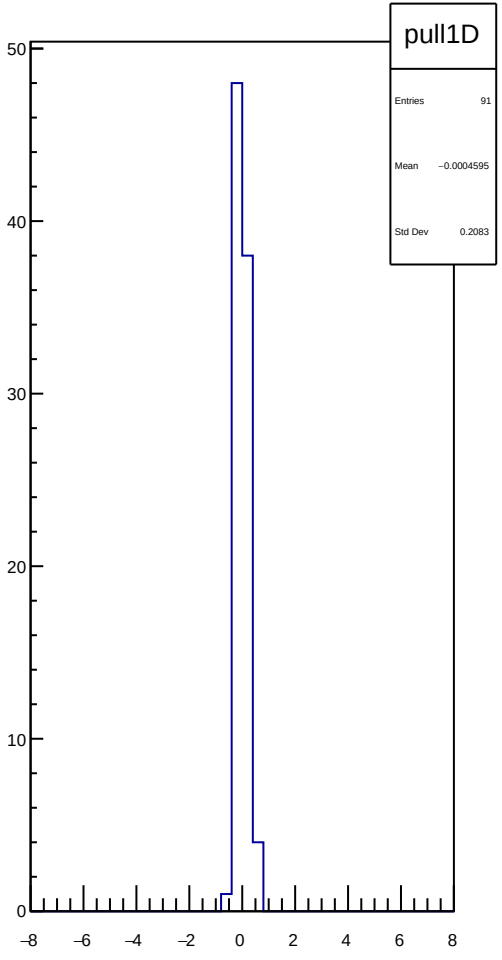

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 2.628 / 90
p0 3.813 ± 18.48
pull
Entries 91
Mean 1226
Std Dev 0

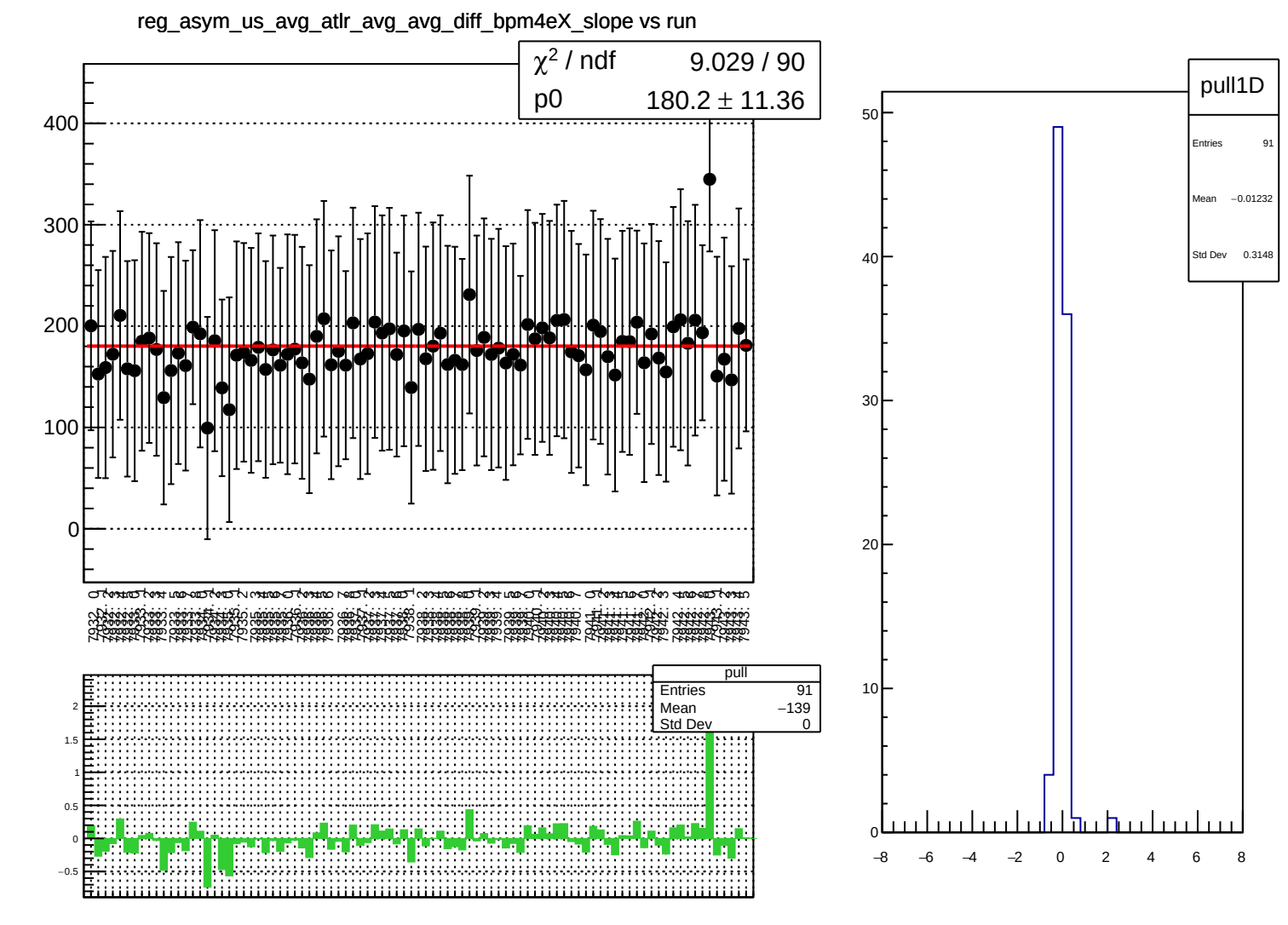

pull1D
Entries 91
Mean −0.0003062
Std Dev 0.1699

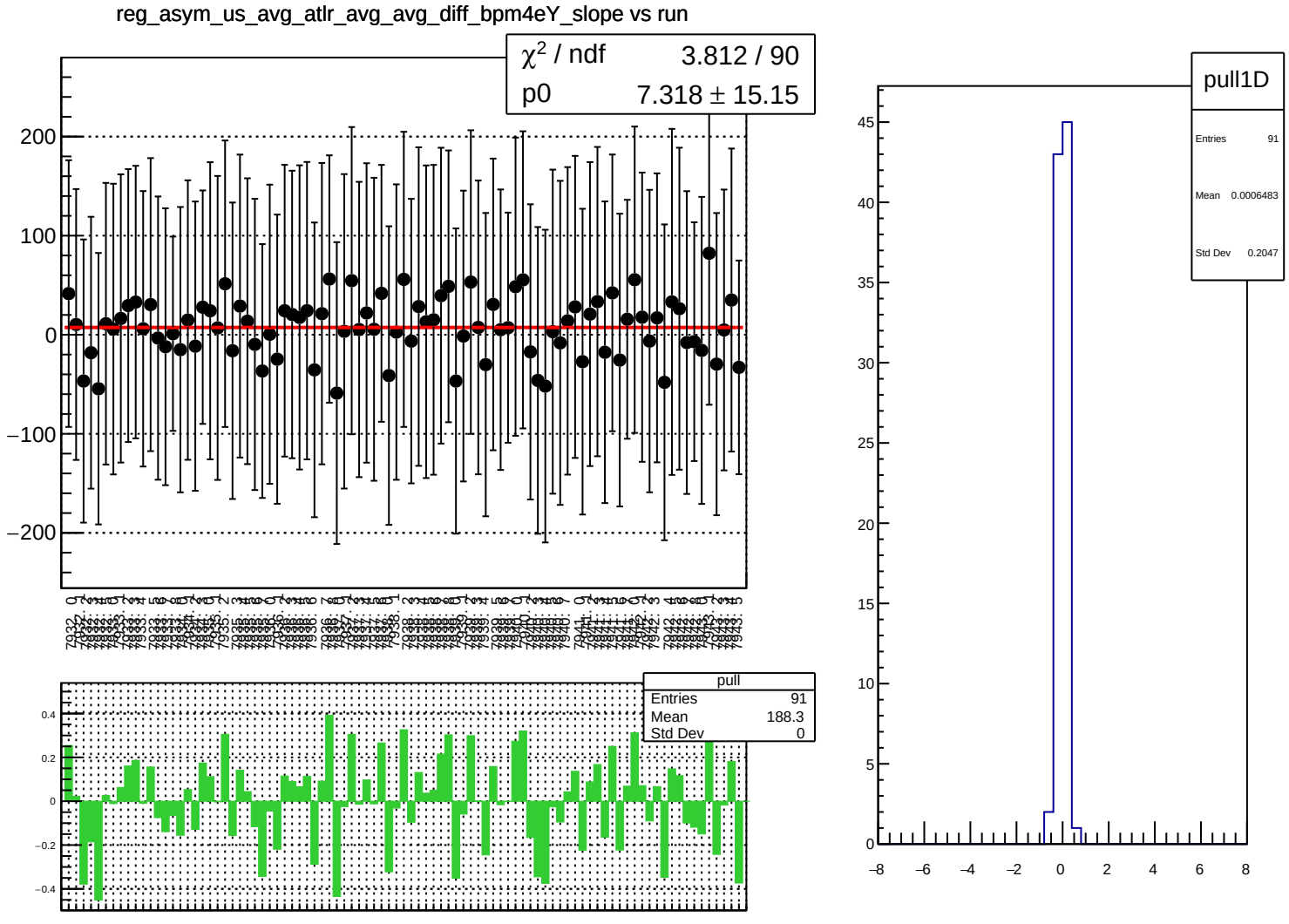

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 4.938 / 90
p0 231.6 ± 0.5183
240
238
236
234
232
230
228
226
224
pull
Entries 91
Mean −220.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.004282
Std Dev 0.2329
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

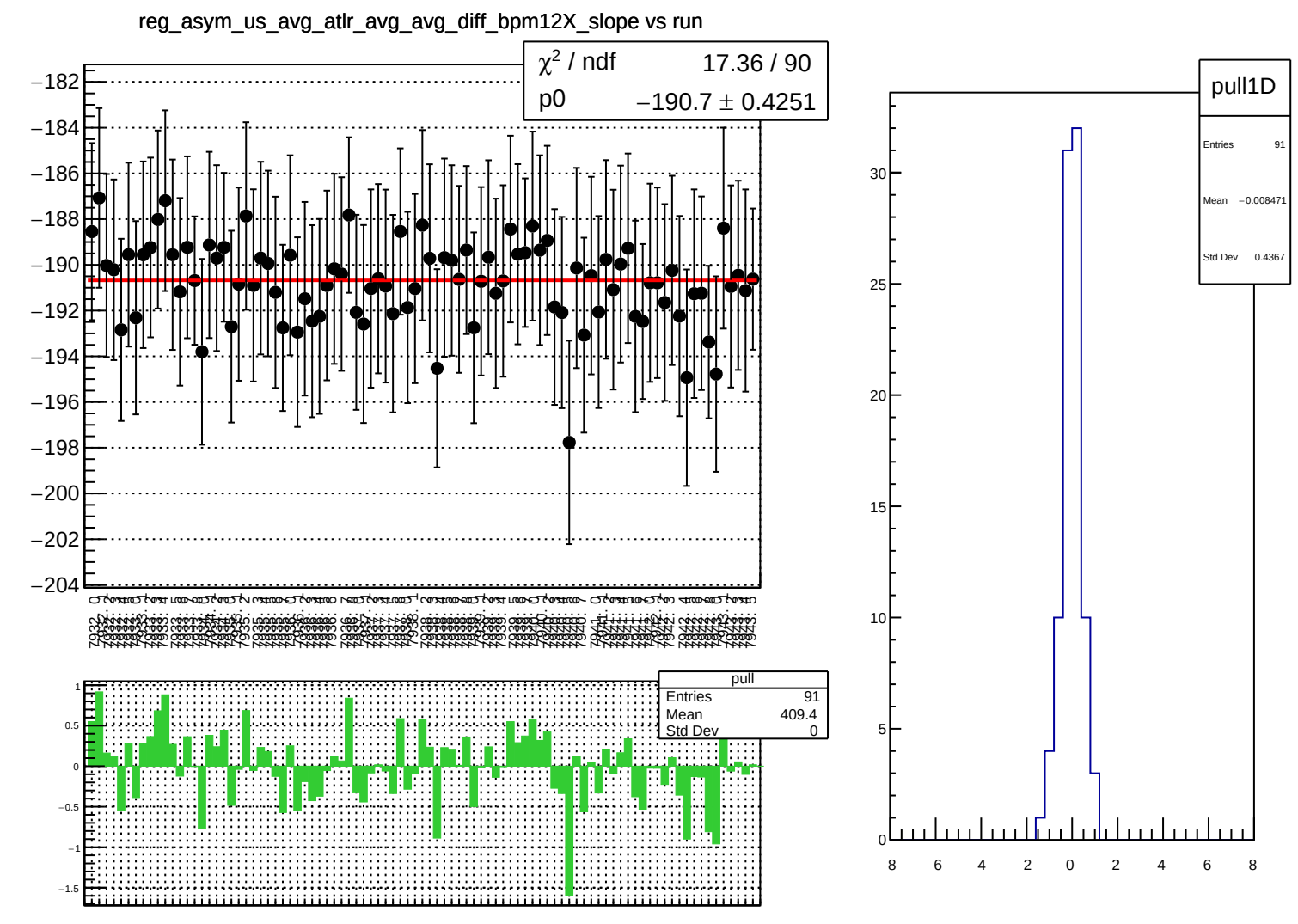

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.777 / 90
p0 −190.5 ± 12.62
pull
Entries 91
Mean −148.5
Std Dev 0
pull1D
Entries 91
Mean 0.01138
Std Dev 0.3104

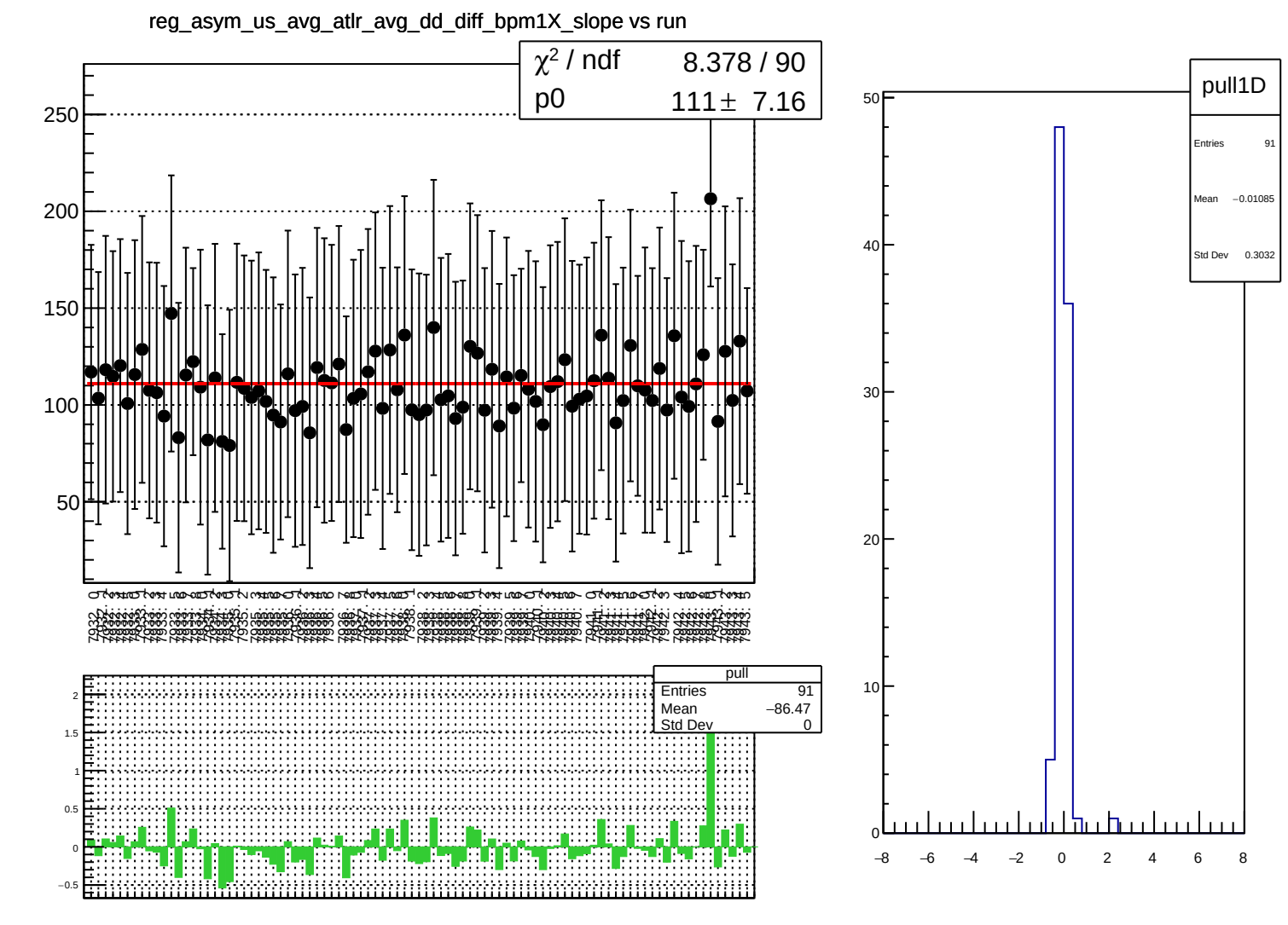

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.947 / 90
p0 72.7 ± 13.15
pull
Entries 91
Mean −110.1
Std Dev 0

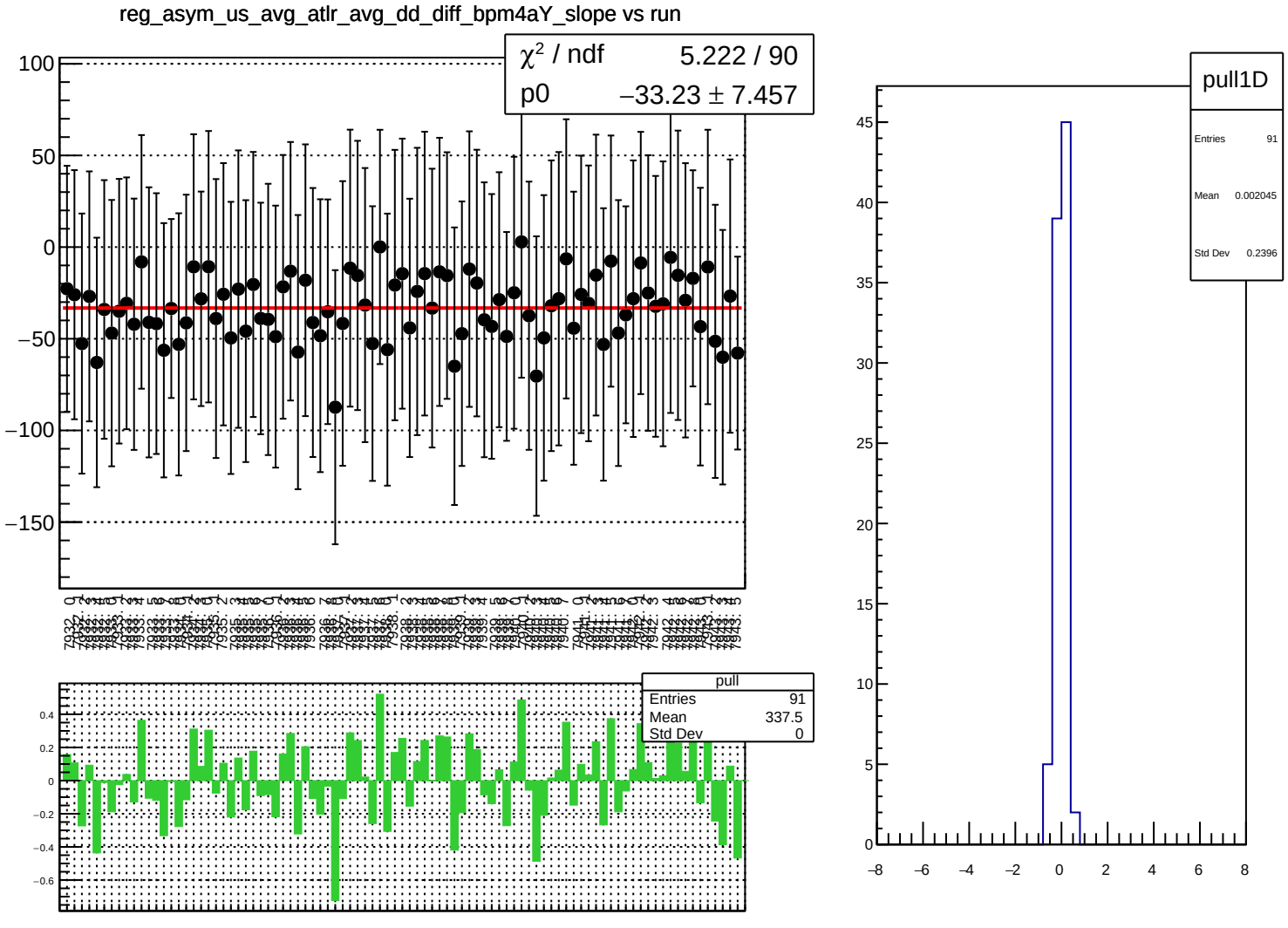

pull1D
Entries 91
Mean −0.0004595
Std Dev 0.2083

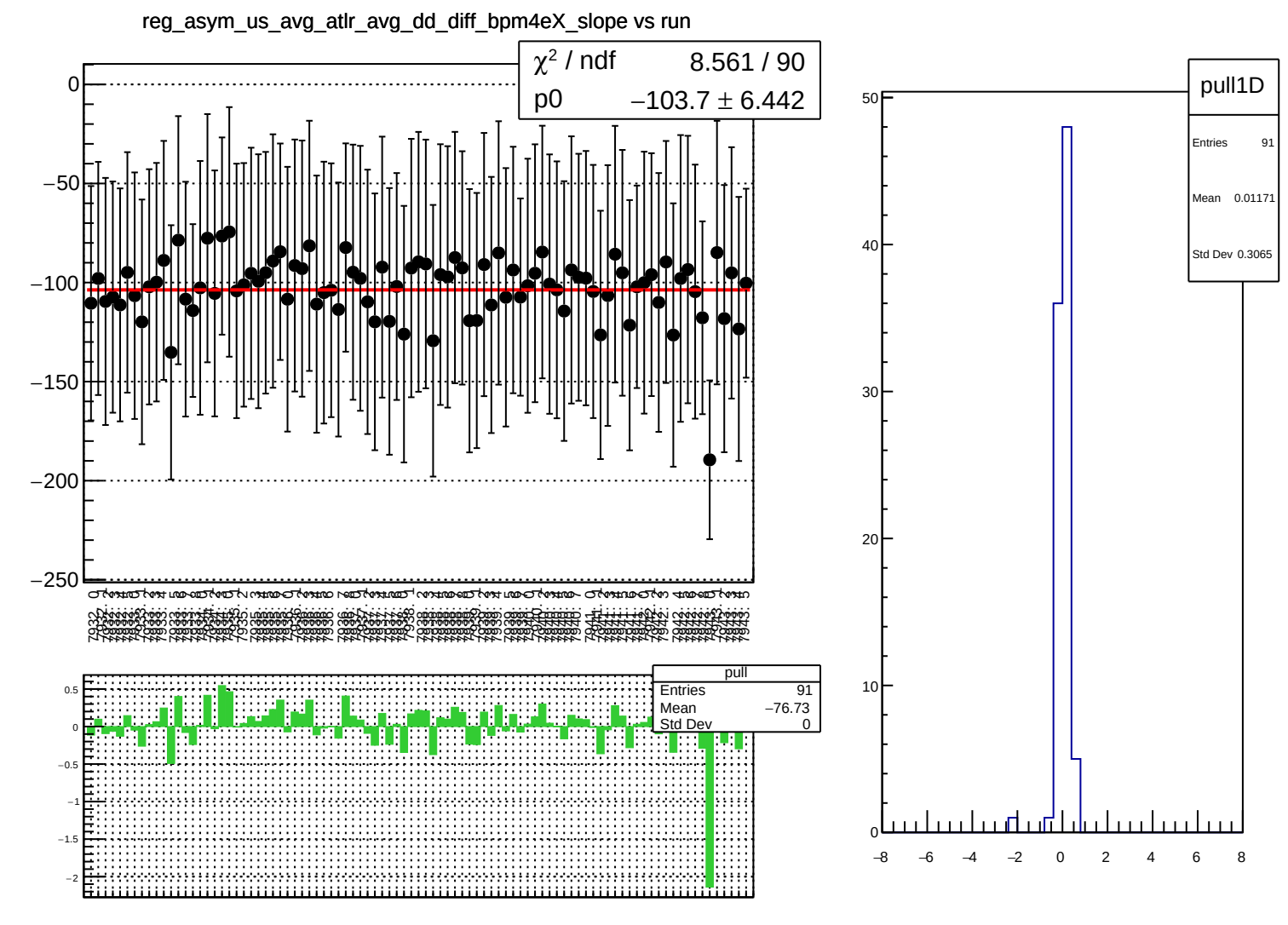

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.029 / 90
p0 180.2 ± 11.36
pull
Entries 91
Mean −139
Std Dev 0
pull1D
Entries 91
Mean −0.01232
Std Dev 0.3148

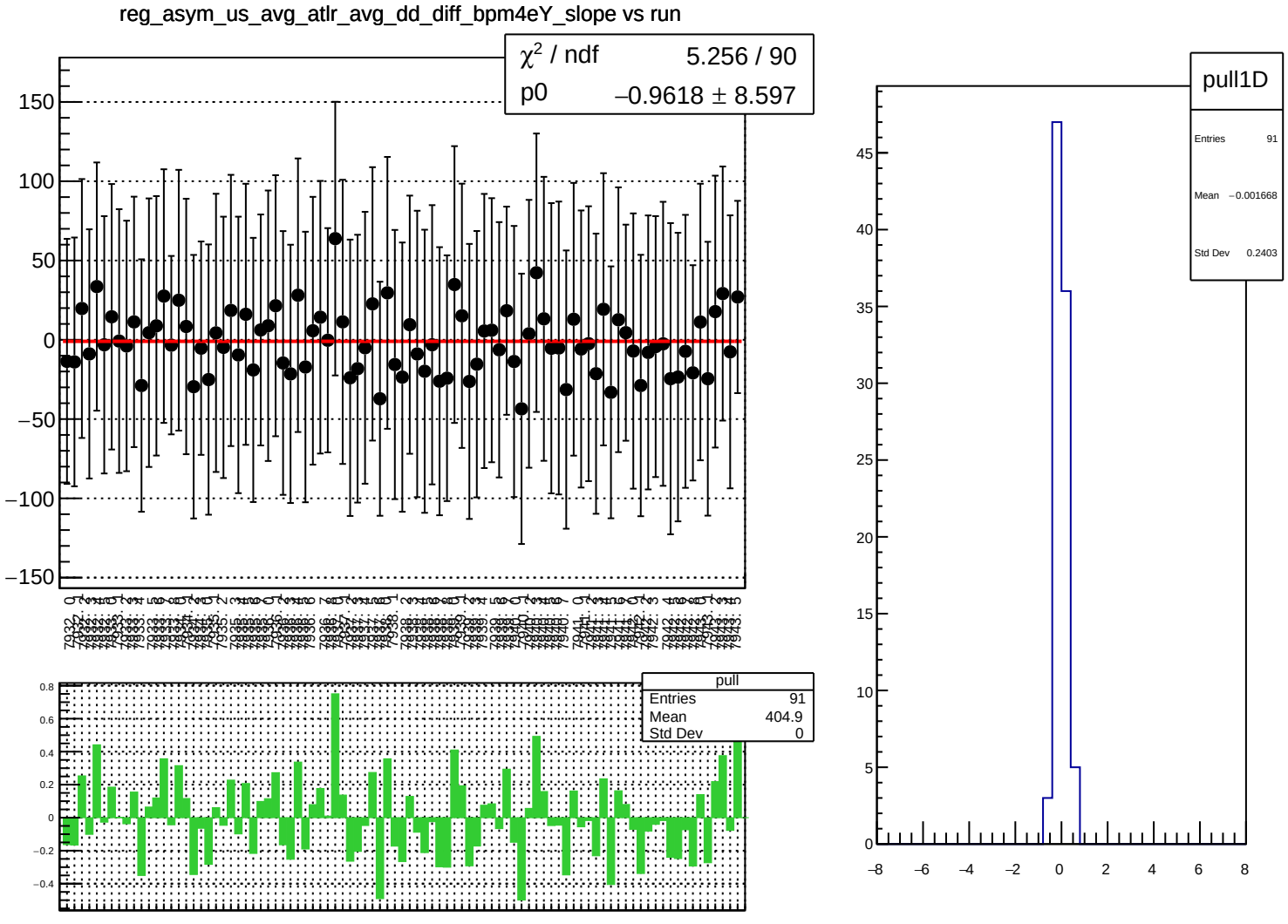

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.812 / 90
p0 7.318 ± 15.15
200
100
0
−100
−200
pull
Entries 91
Mean 188.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean 0.0006483
Std Dev 0.2047
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

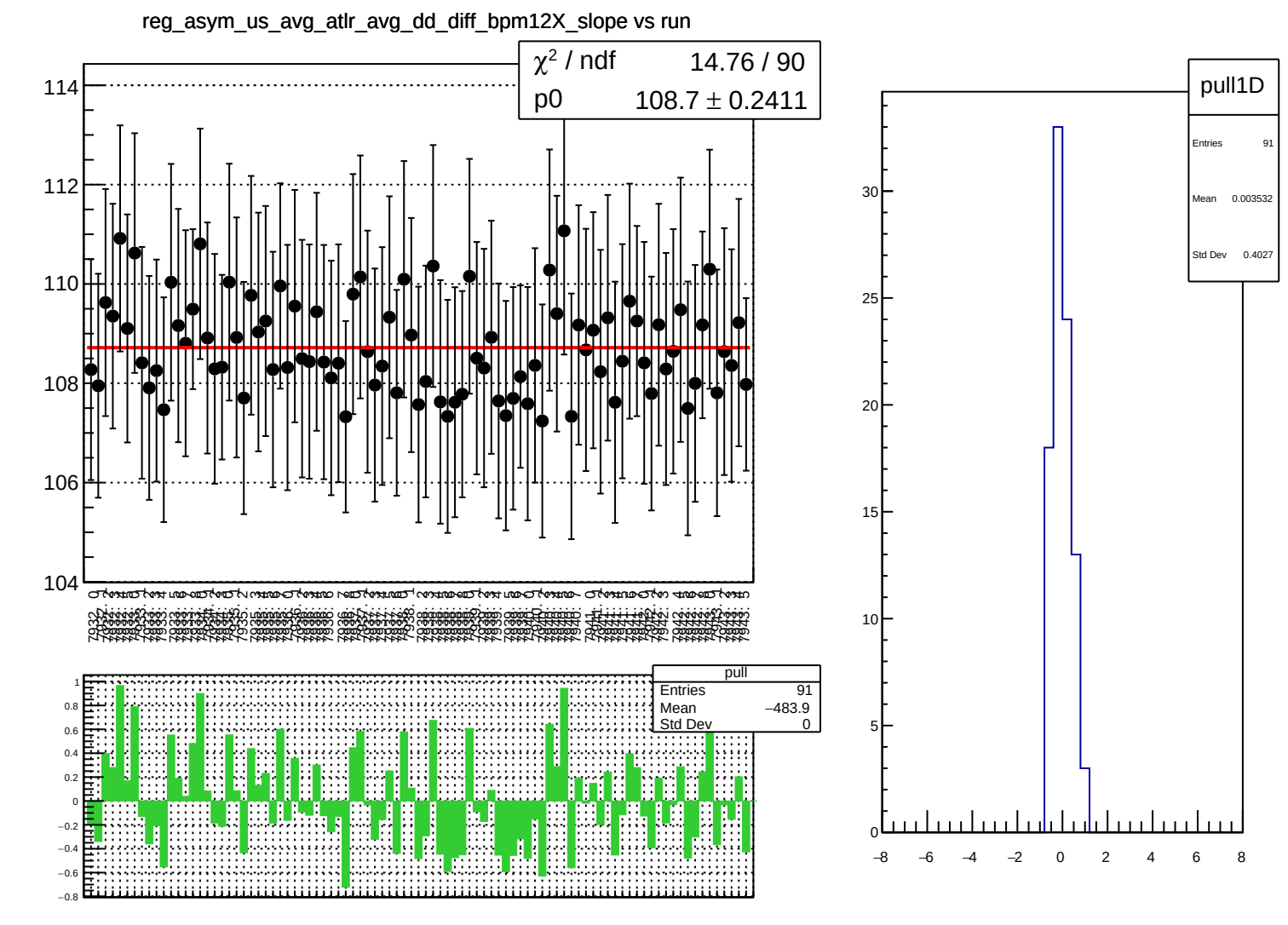

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 17.36 / 90
p0 −190.7 ± 0.4251
pull
Entries 91
Mean 409.4
Std Dev 0
pull1D
Entries 91
Mean −0.008471
Std Dev 0.4367

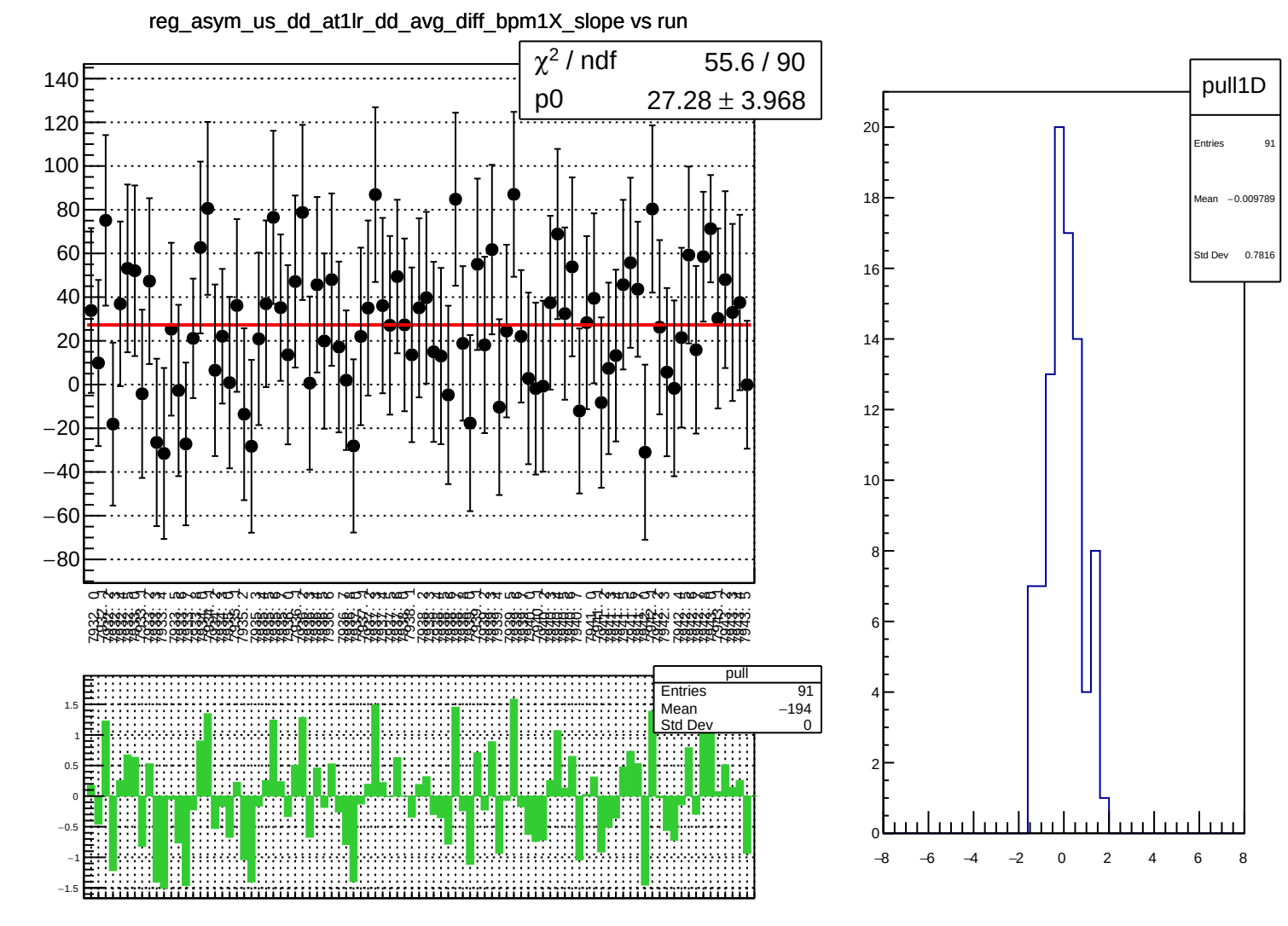

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 8.378 / 90
p0 111 ± 7.16
250
200
150
100
50
pull
Entries 91
Mean −86.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.01085
Std Dev 0.3032
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

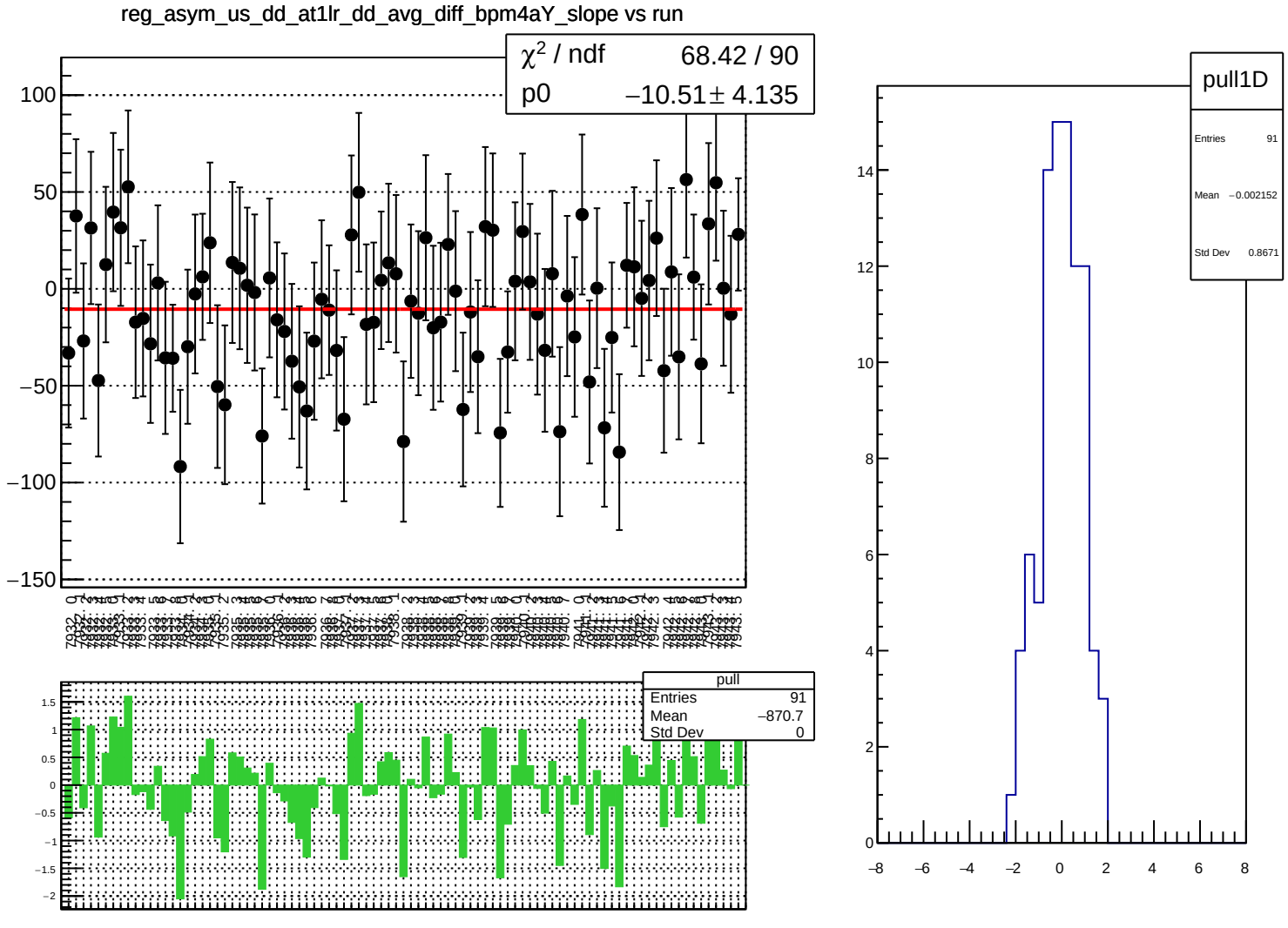

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.222 / 90
p0 −33.23 ± 7.457
pull
Entries 91
Mean 337.5
Std Dev 0
pull1D
Entries 91
Mean 0.002045
Std Dev 0.2396

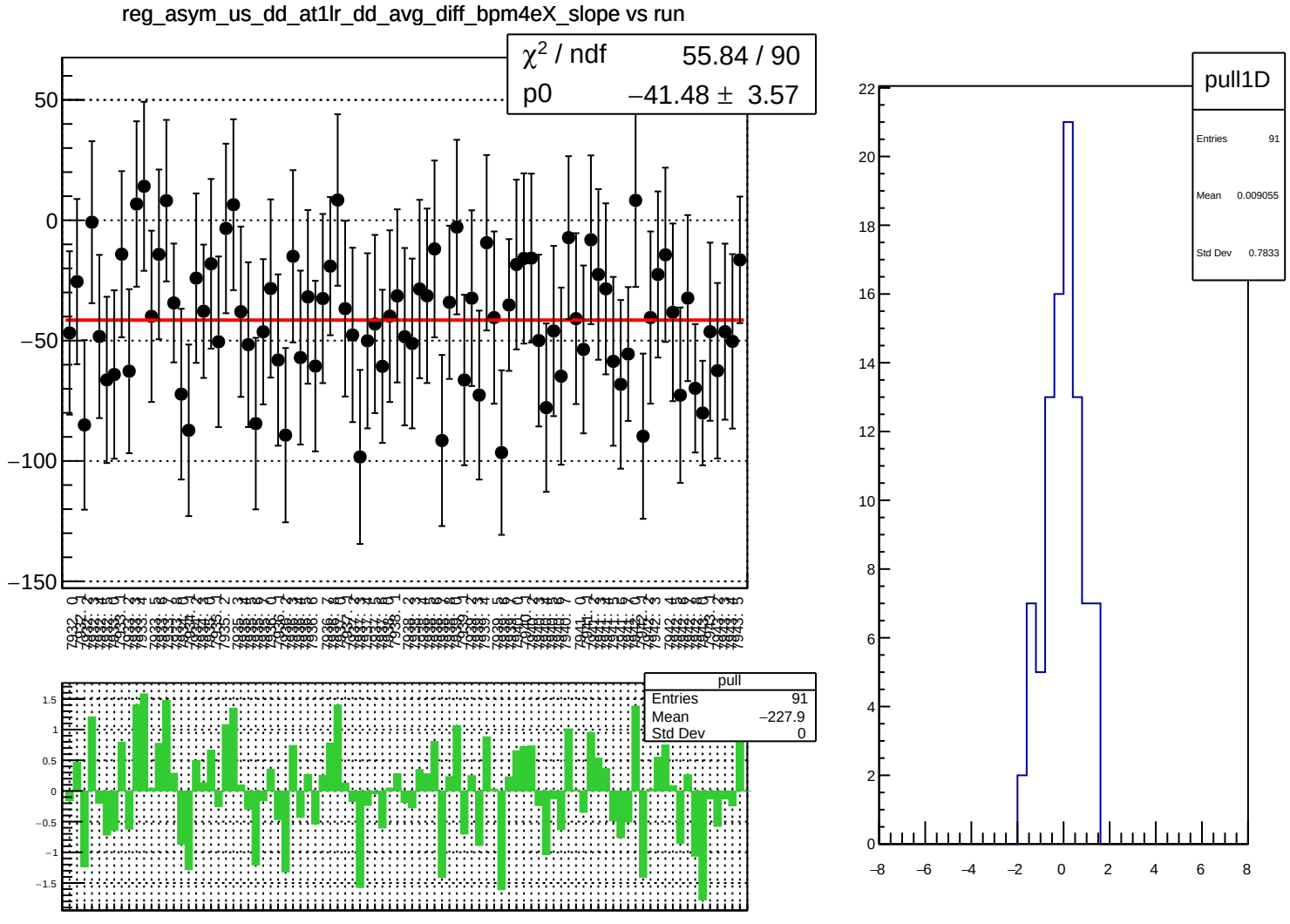

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.561 / 90
p0 −103.7 ± 6.442
pull
Entries 91
Mean −76.73
Std Dev 0
pull1D
Entries 91
Mean 0.01171
Std Dev 0.3065

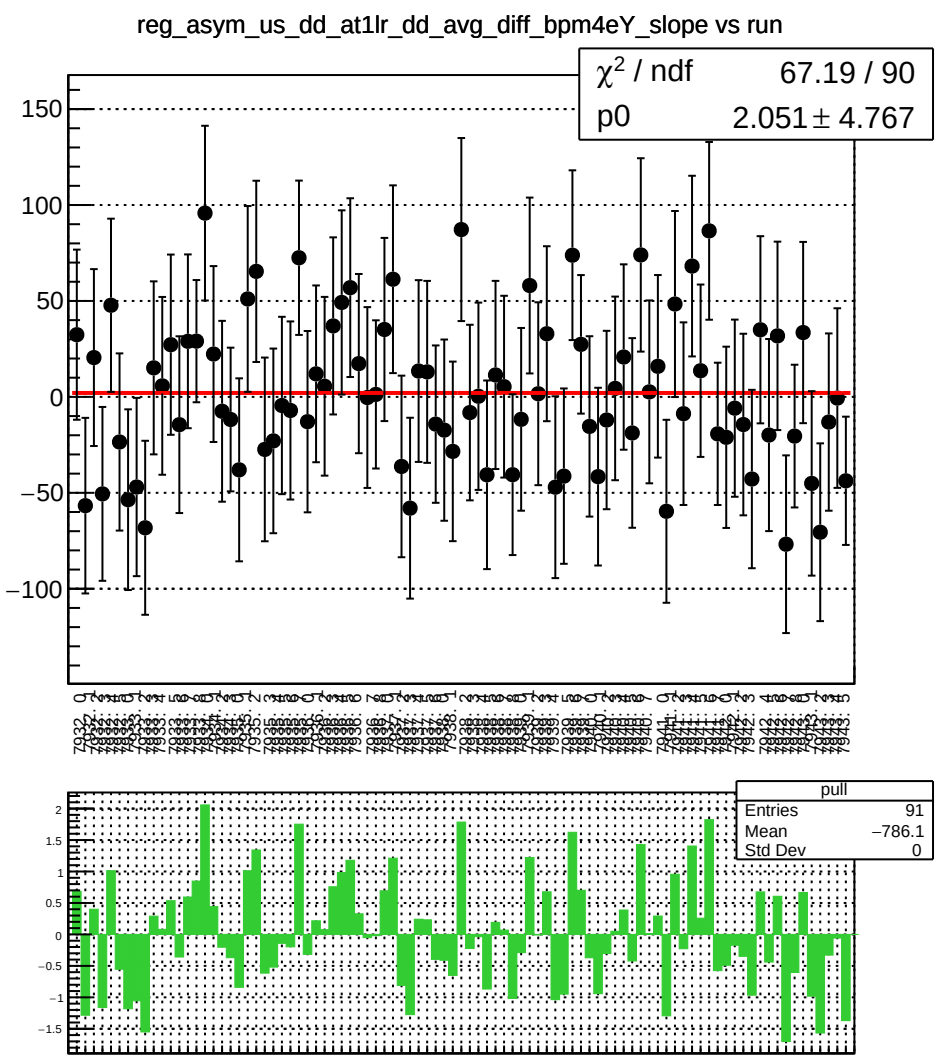

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.256 / 90
p0 −0.9618 ± 8.597
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 404.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean −0.001668
Std Dev 0.2403
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

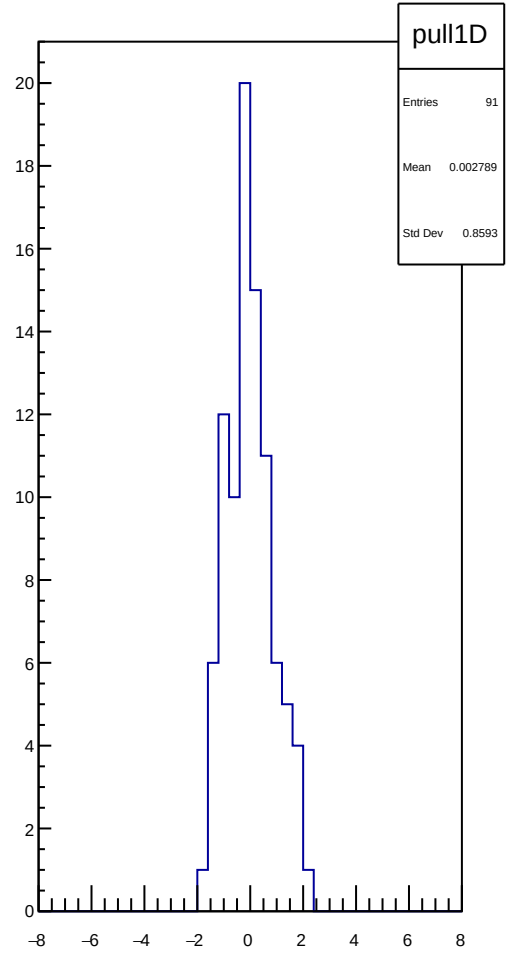

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 14.76 / 90
p0 108.7 ± 0.2411
pull
Entries 91
Mean −483.9
Std Dev 0
pull1D
Entries 91
Mean 0.003532
Std Dev 0.4027

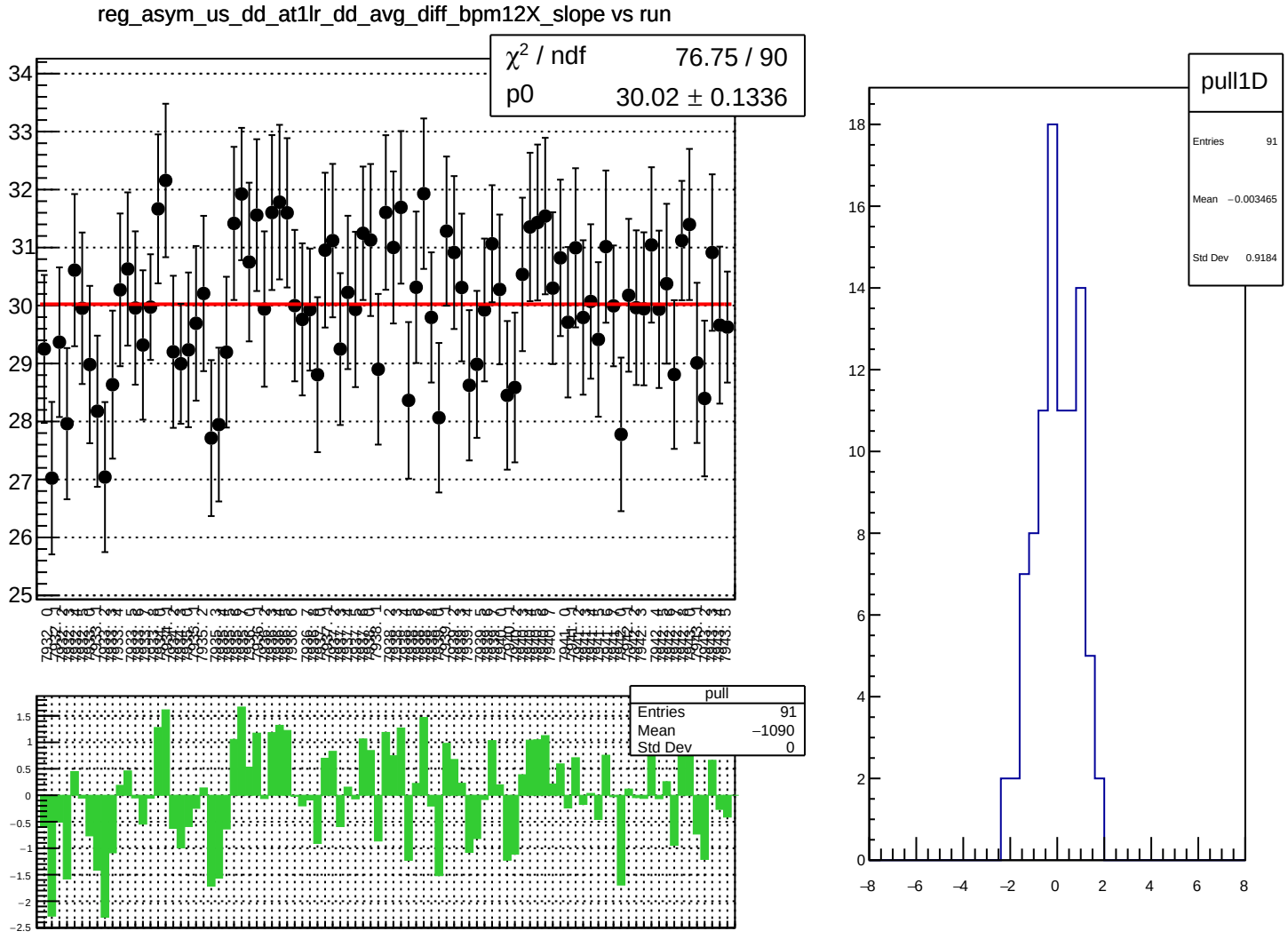

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 55.6 / 90
p0 27.28 ± 3.968
pull
Entries 91
Mean −194
Std Dev 0
pull1D
Entries 91
Mean −0.009789
Std Dev 0.7816

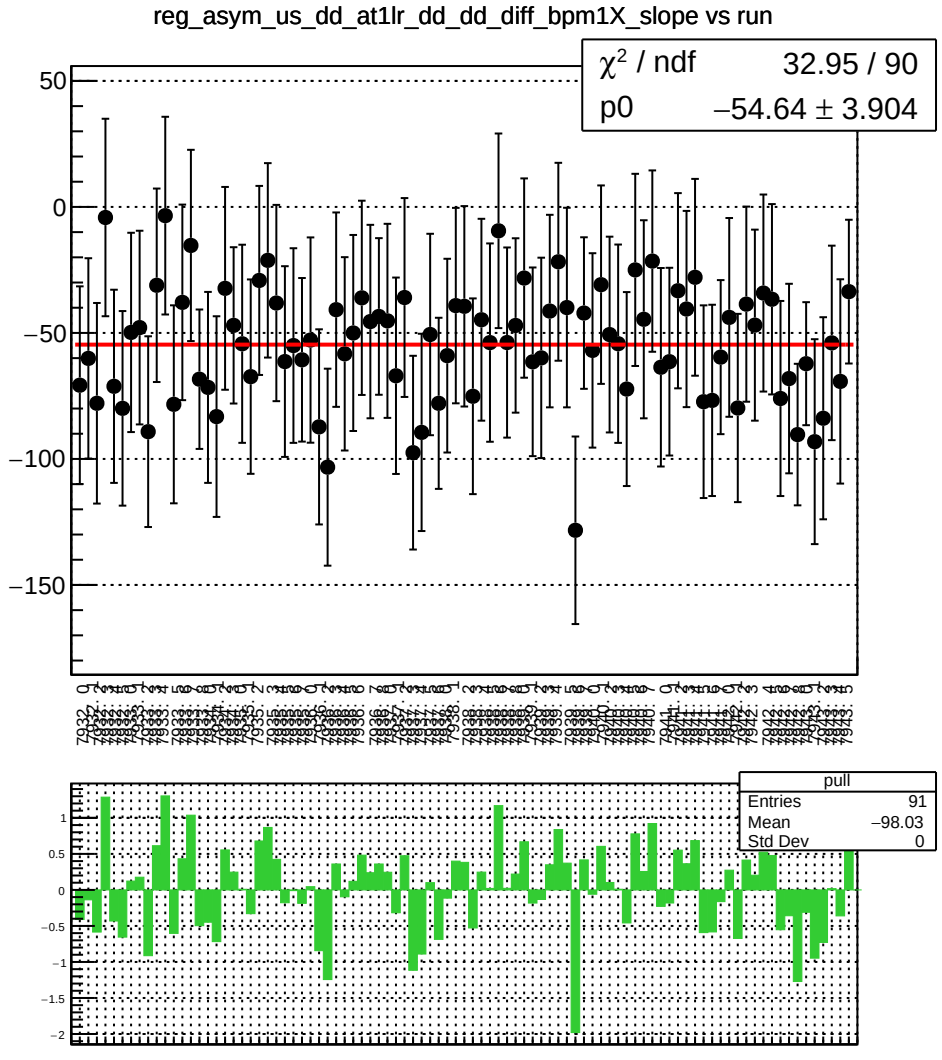

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.42 / 90
p0 −10.51 ± 4.135
pull
Entries 91
Mean −870.7
Std Dev 0
pull1D
Entries 91
Mean −0.002152
Std Dev 0.8671

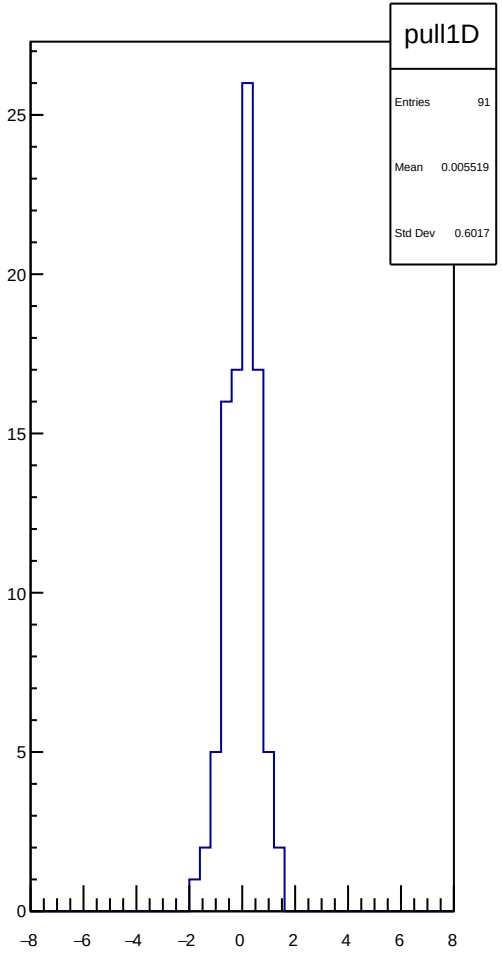

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.84 / 90
p0 −41.48 ± 3.57
pull
Entries 91
Mean −227.9
Std Dev 0
pull1D
Entries 91
Mean 0.009055
Std Dev 0.7833

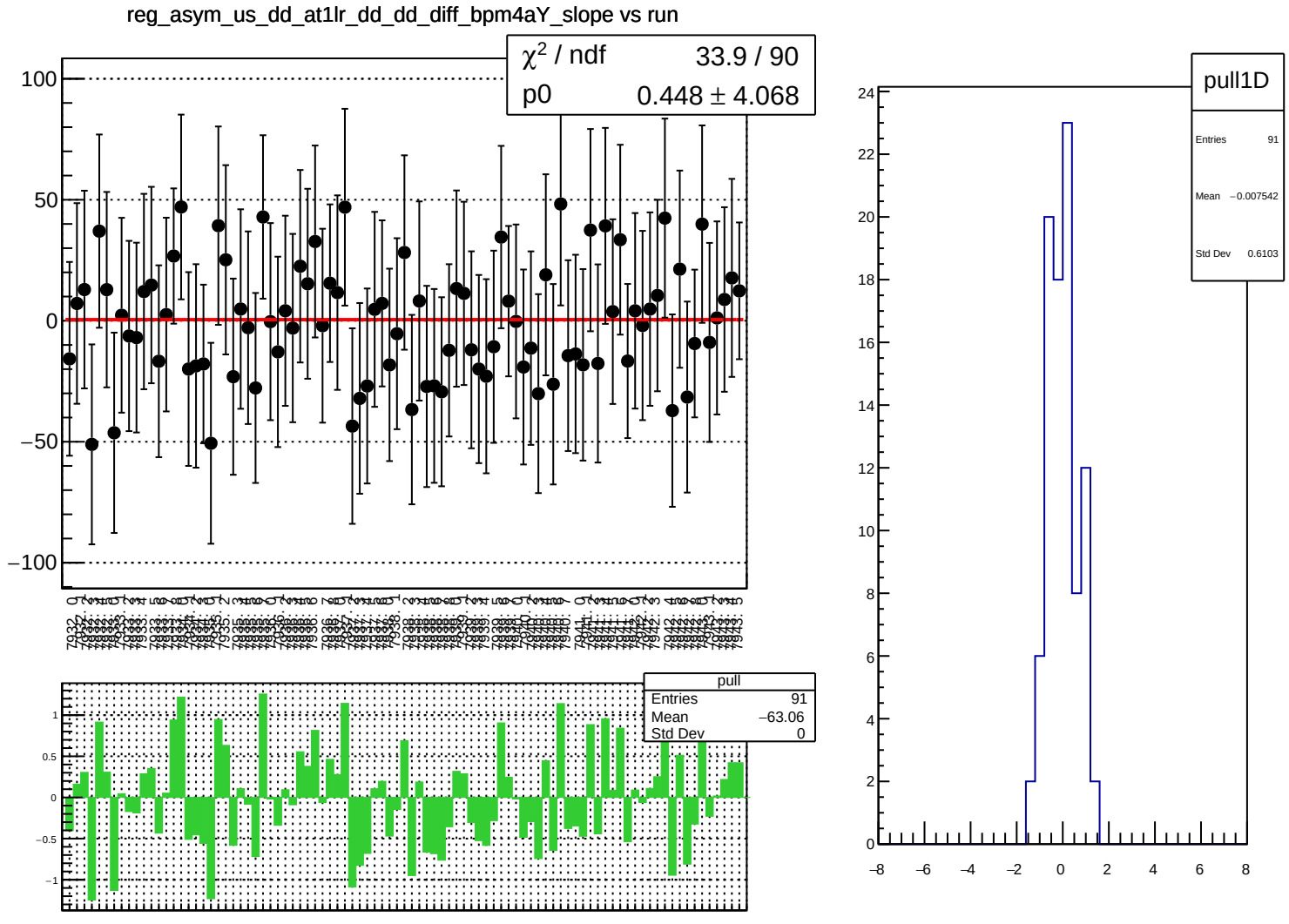

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.19 / 90
p0 2.051 ± 4.767
150
100
50
0
−50
−100
pull
Entries 91
Mean −786.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

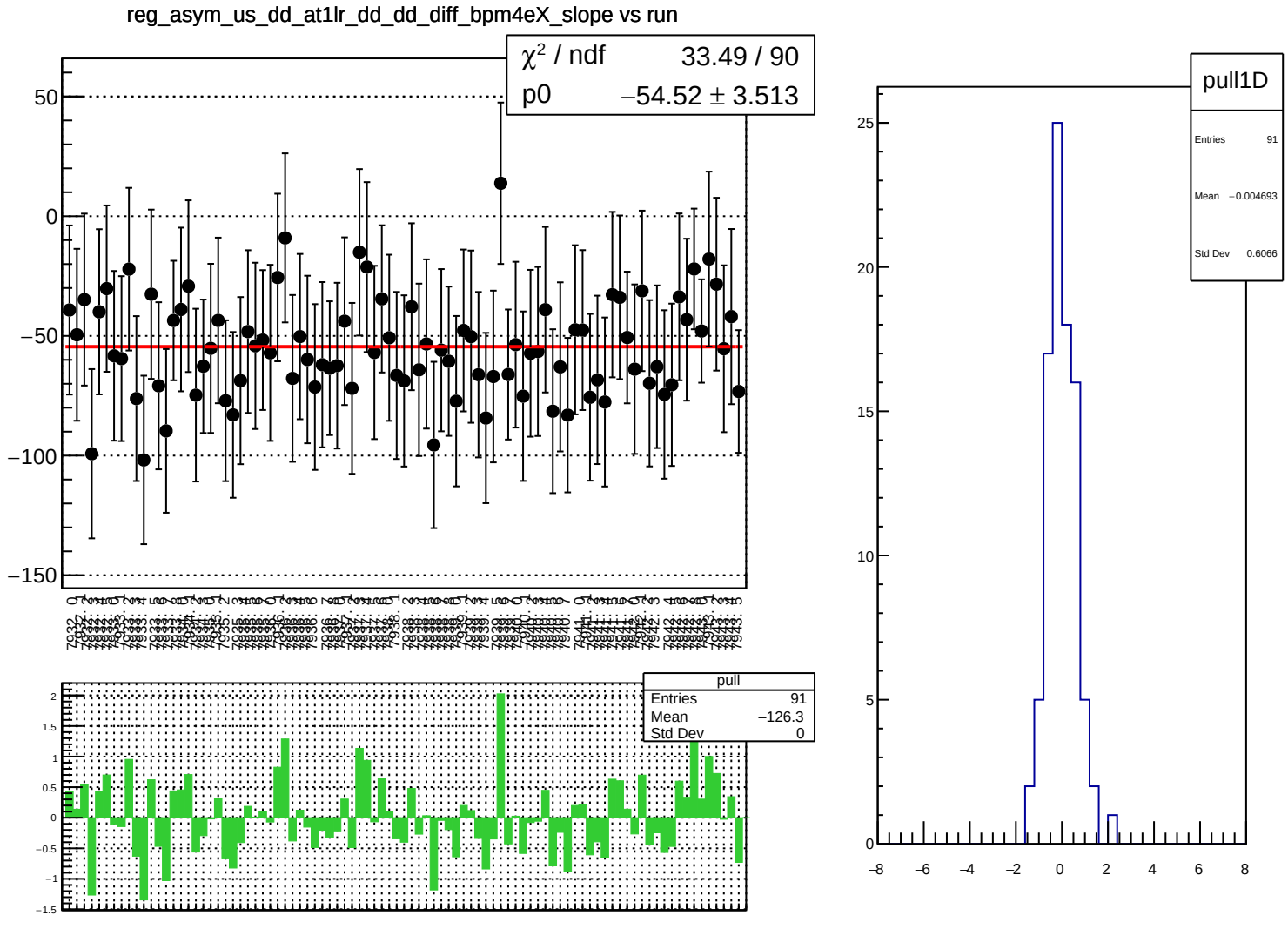

pull1D
Entries 91
Mean 0.002789
Std Dev 0.8593
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

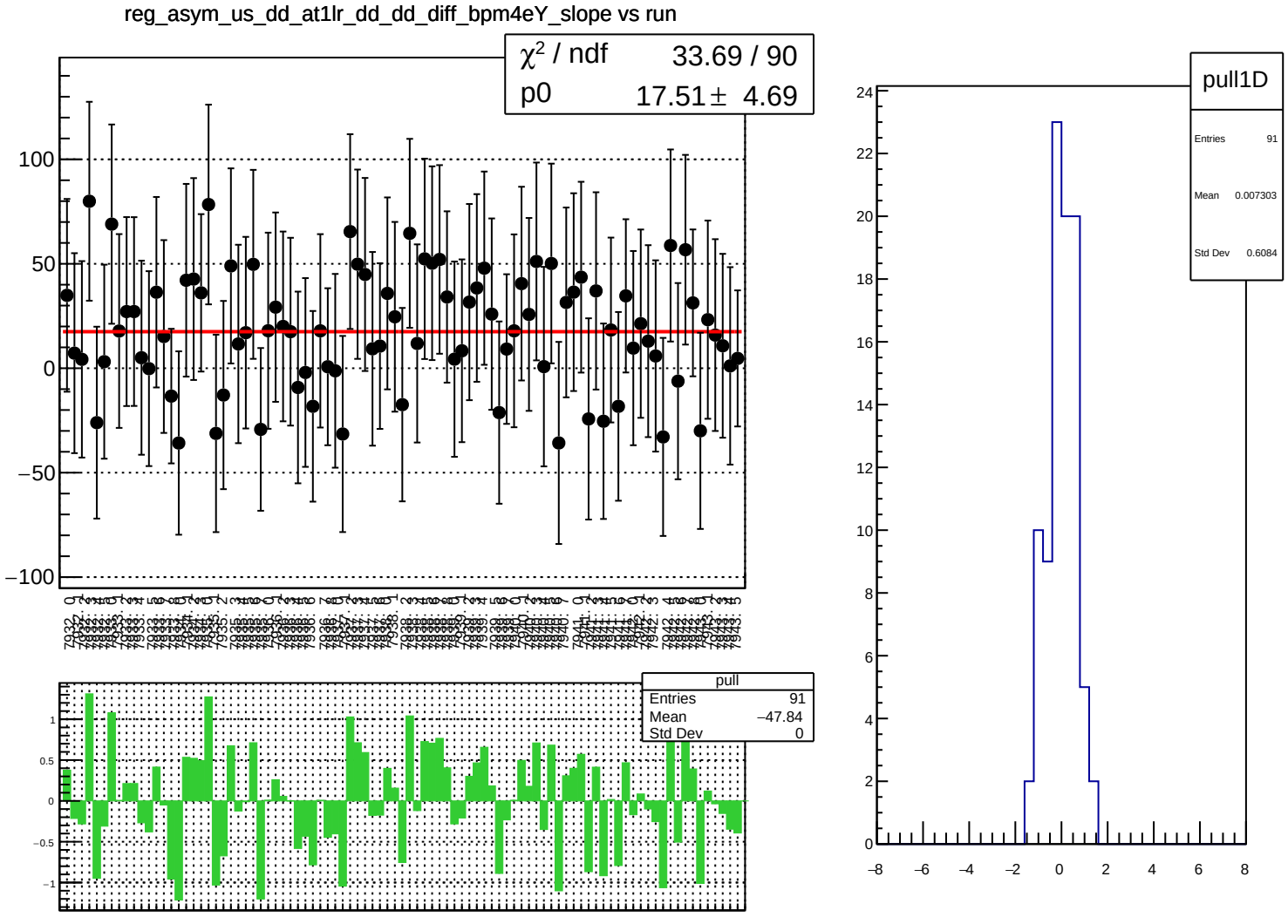

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 76.75 / 90
p0 30.02 ± 0.1336
pull
Entries 91
Mean −1090
Std Dev 0
pull1D
Entries 91
Mean −0.003465
Std Dev 0.9184

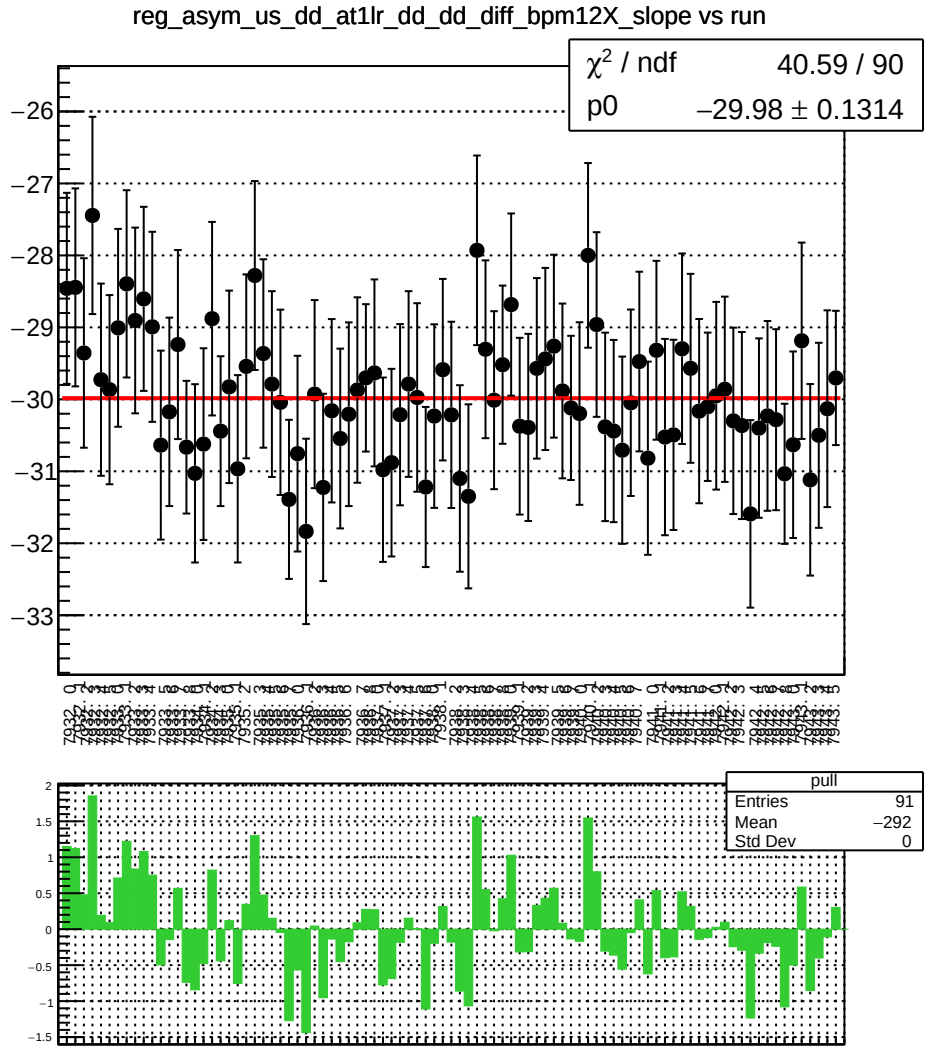

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 32.95 / 90
p0 −54.64 ± 3.904
pull
Entries 91
Mean −98.03
Std Dev 0

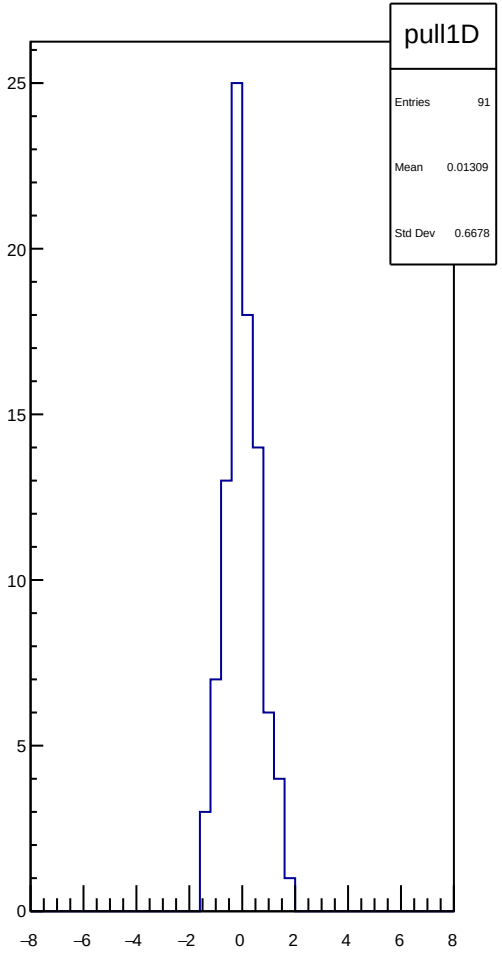

pull1D
Entries 91
Mean 0.005519
Std Dev 0.6017

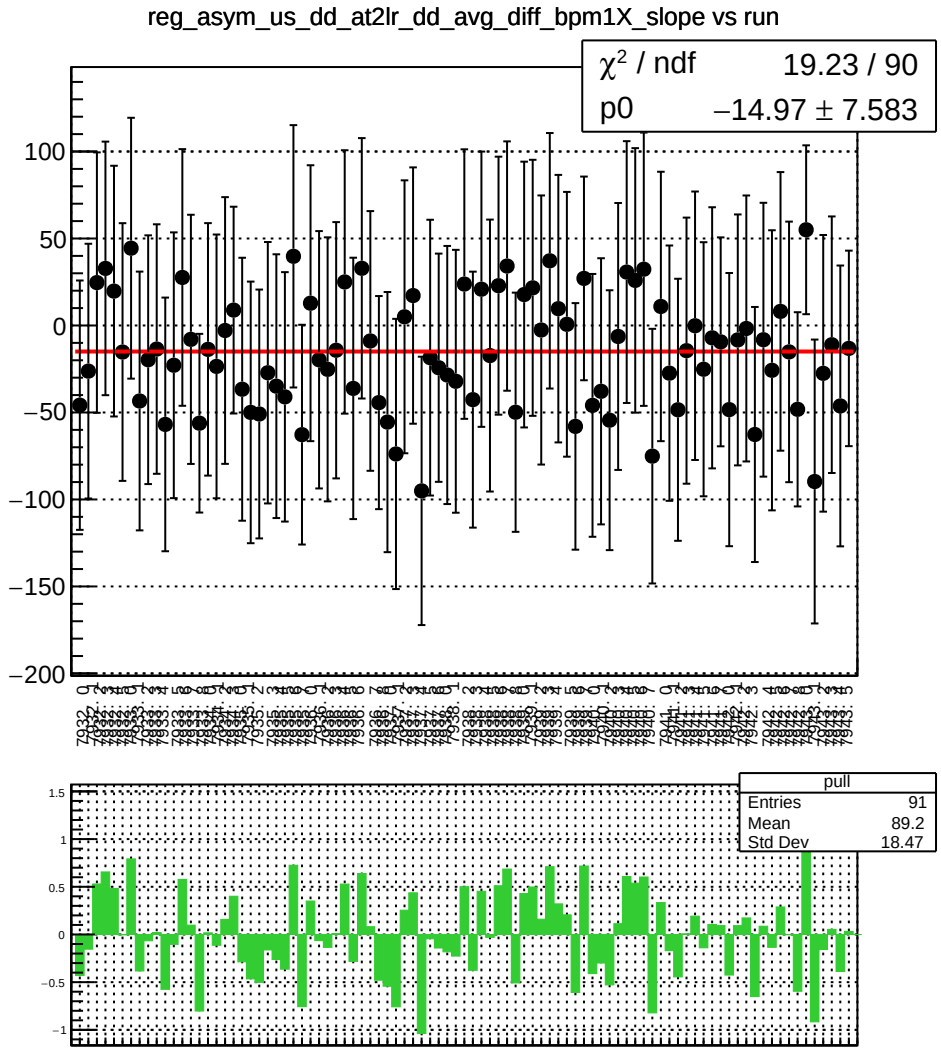

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.9 / 90
p0 0.448 ± 4.068
pull
Entries 91
Mean −63.06
Std Dev 0
pull1D
Entries 91
Mean −0.007542
Std Dev 0.6103

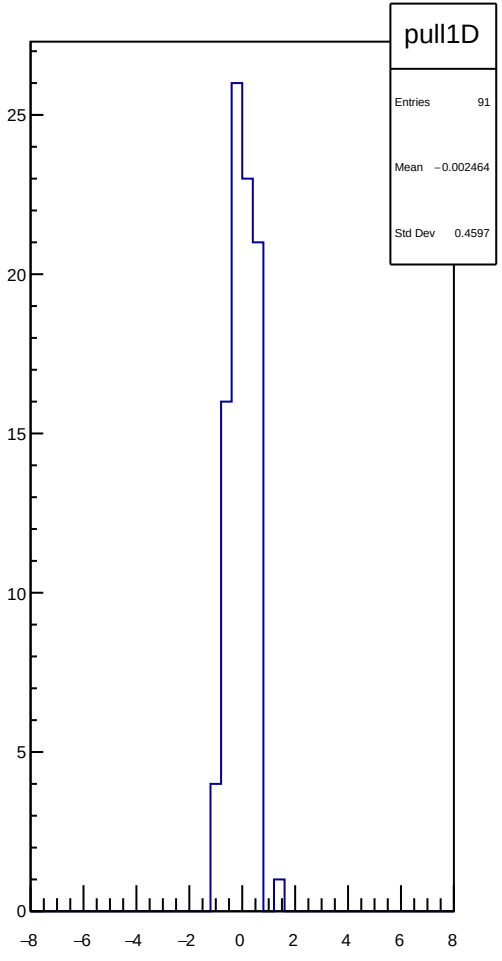

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.49 / 90
p0 −54.52 ± 3.513
pull
Entries 91
Mean −126.3
Std Dev 0
pull1D
Entries 91
Mean −0.004693
Std Dev 0.6066

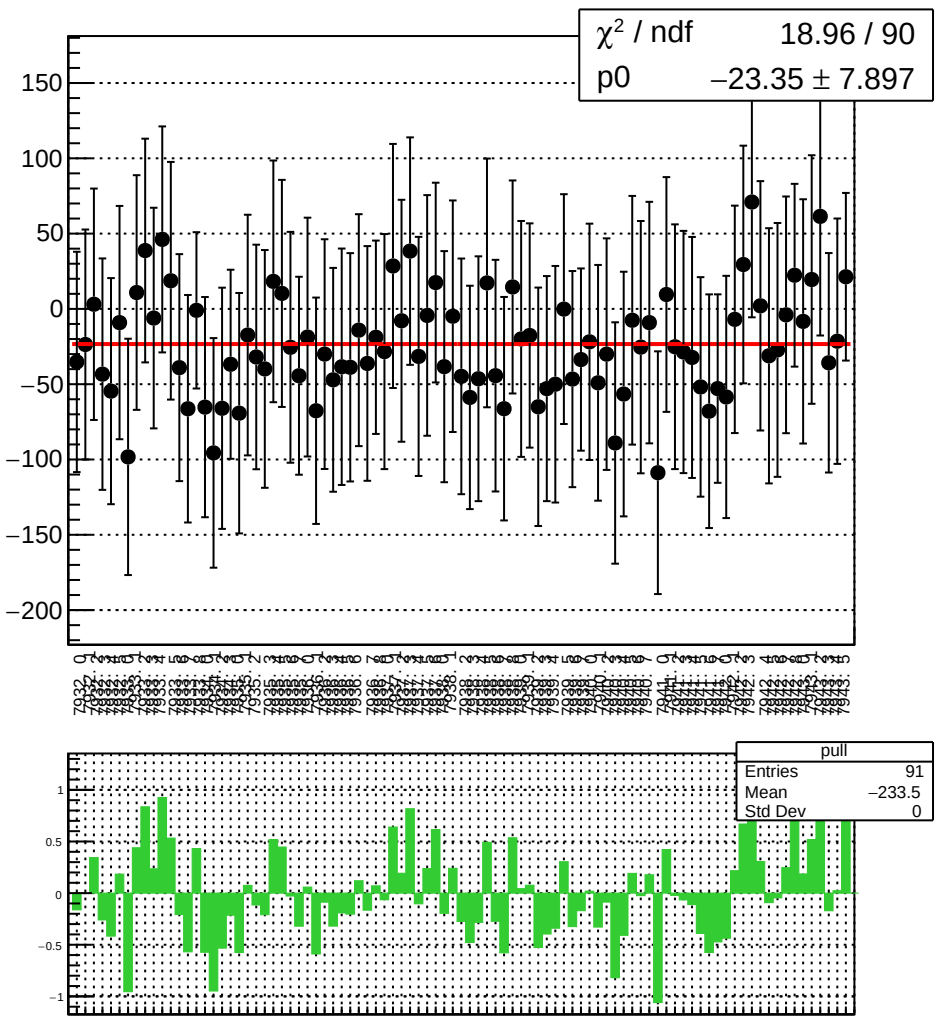

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.69 / 90
p0 17.51 ± 4.69
pull
Entries 91
Mean −47.84
Std Dev 0
pull1D
Entries 91
Mean 0.007303
Std Dev 0.6084

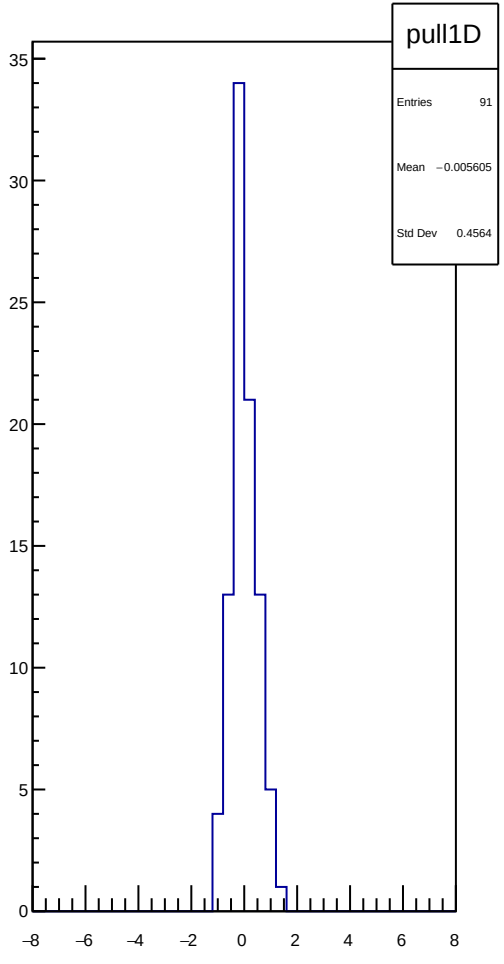

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 40.59 / 90
p0 −29.98 ± 0.1314
pull
Entries 91
Mean −292
Std Dev 0

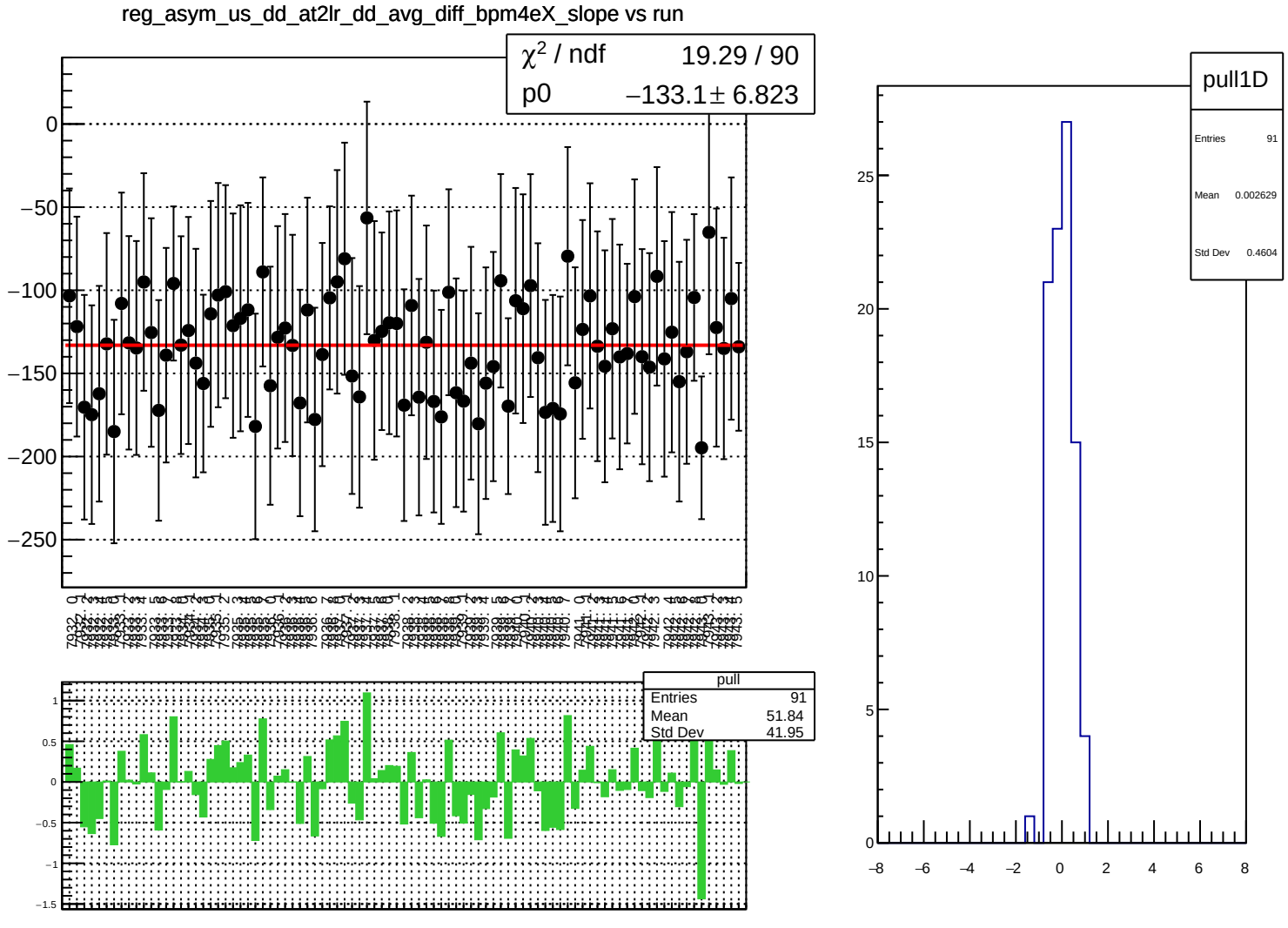

pull1D
Entries 91
Mean 0.01309
Std Dev 0.6678

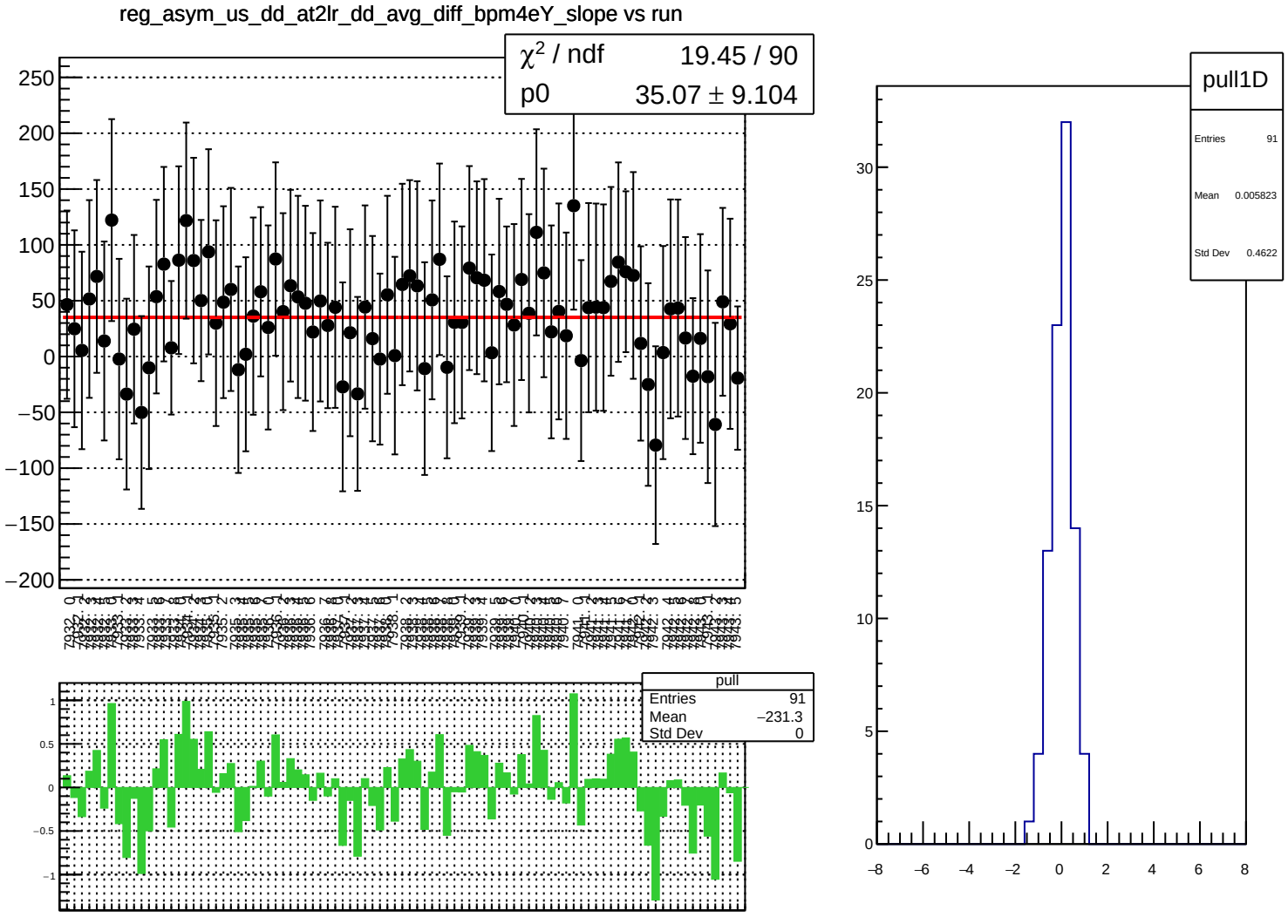

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 19.23 / 90
p0 −14.97 ± 7.583
pull
Entries 91
Mean 89.2
Std Dev 18.47

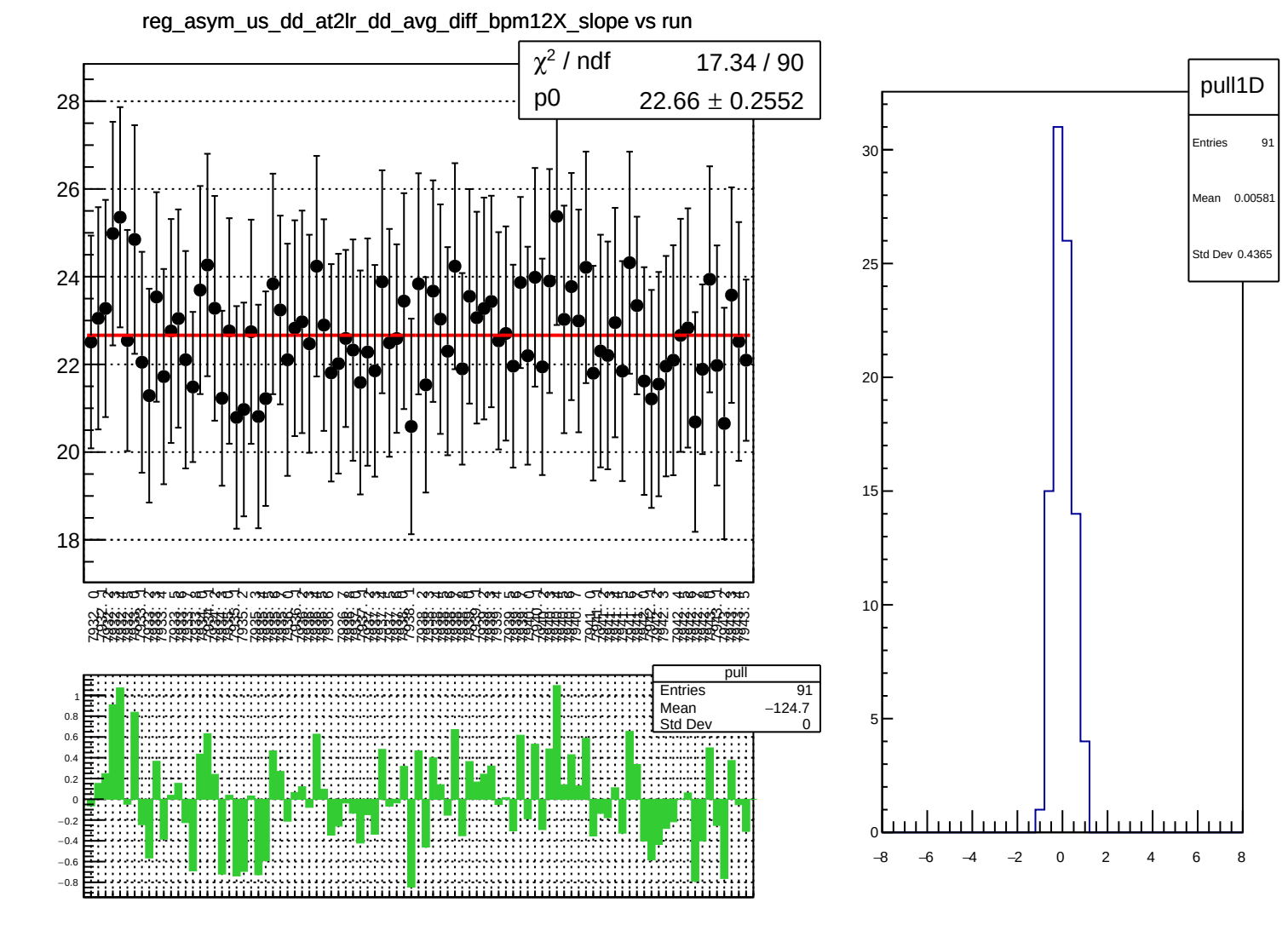

pull1D
Entries 91
Mean −0.002464
Std Dev 0.4597

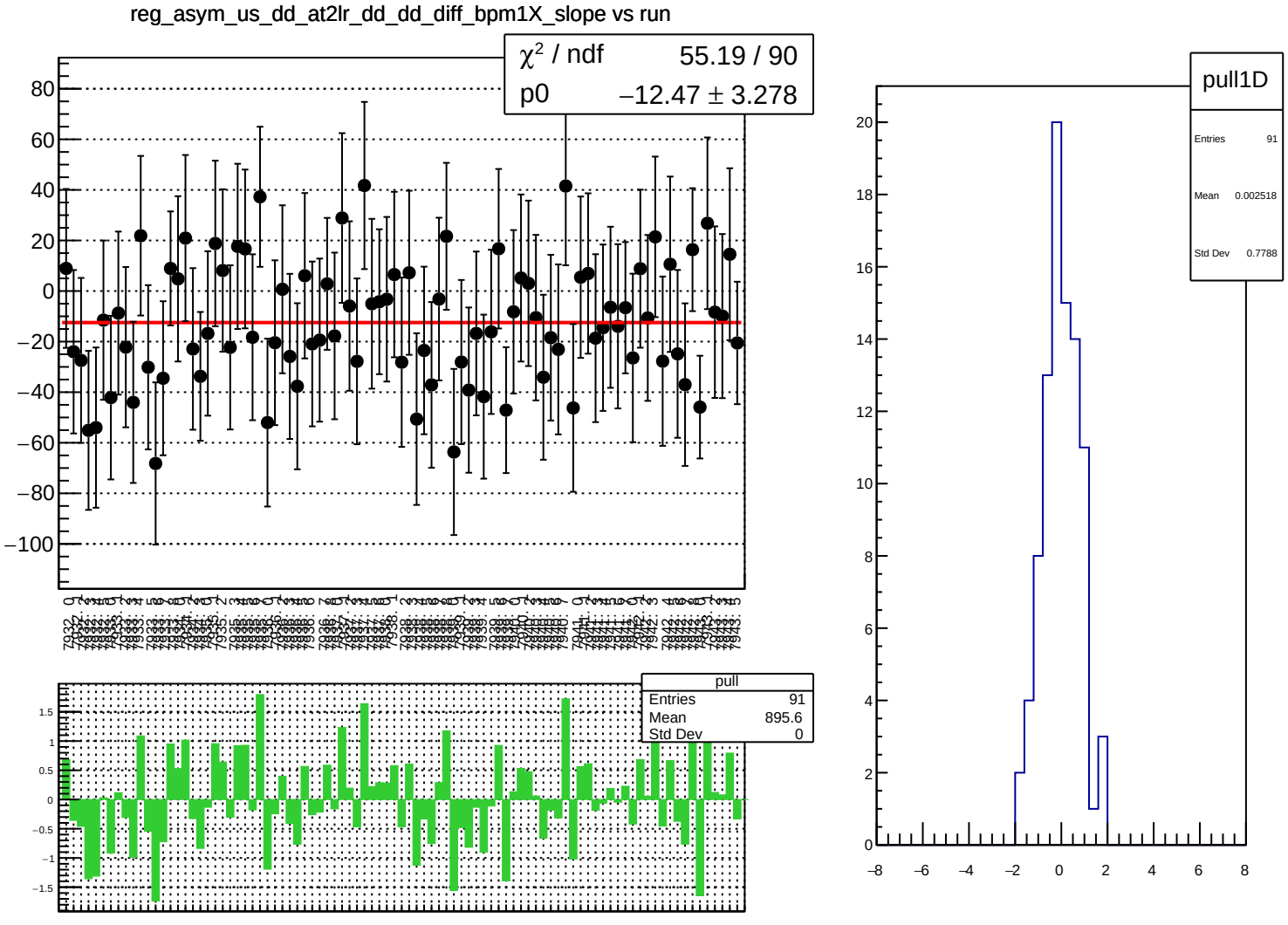

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.96 / 90
p0 −23.35 ± 7.897
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −233.5
Std Dev 0
1
0.5
0
−0.5
−1

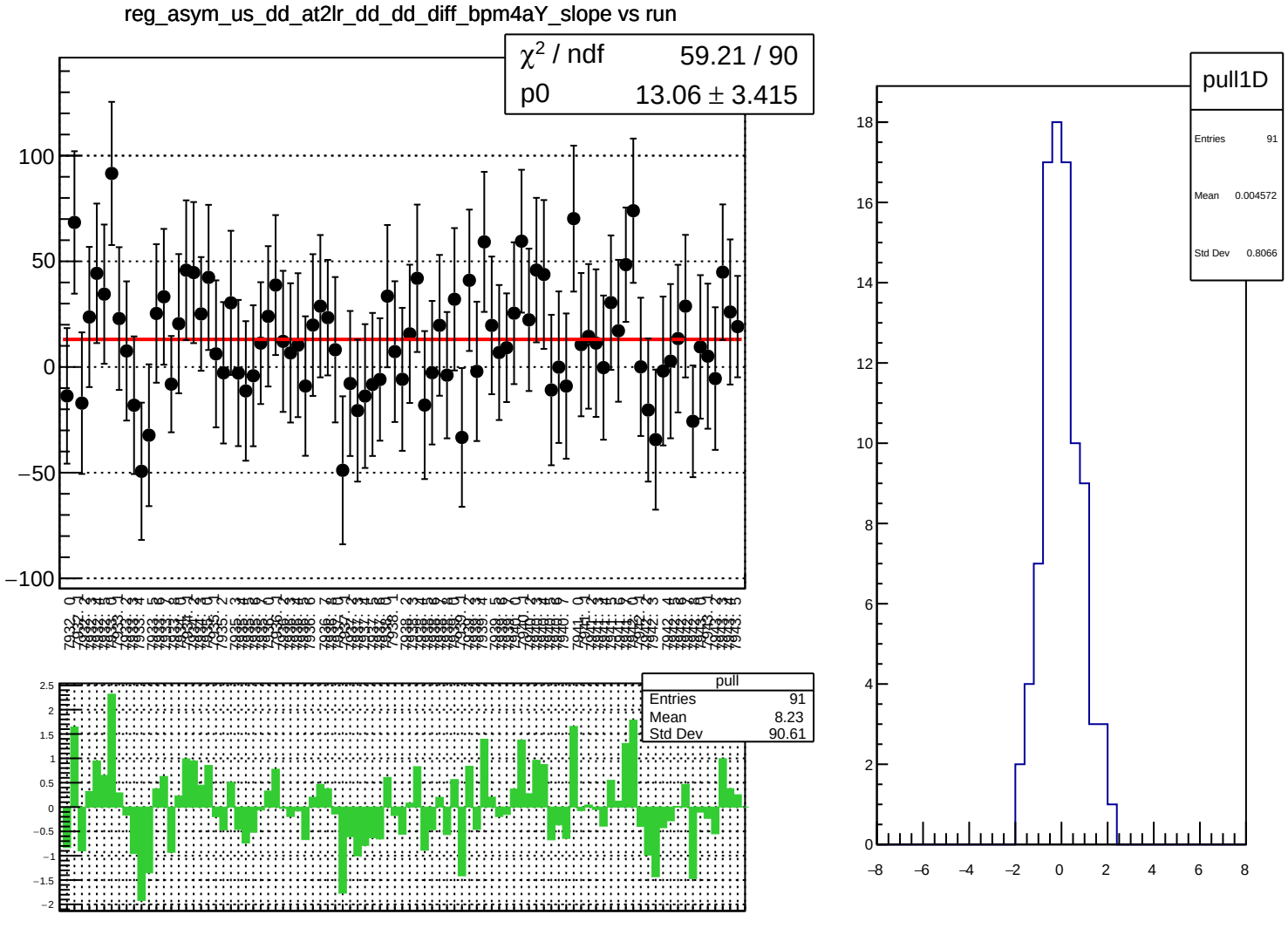

pull1D
Entries 91
Mean −0.005605
Std Dev 0.4564
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

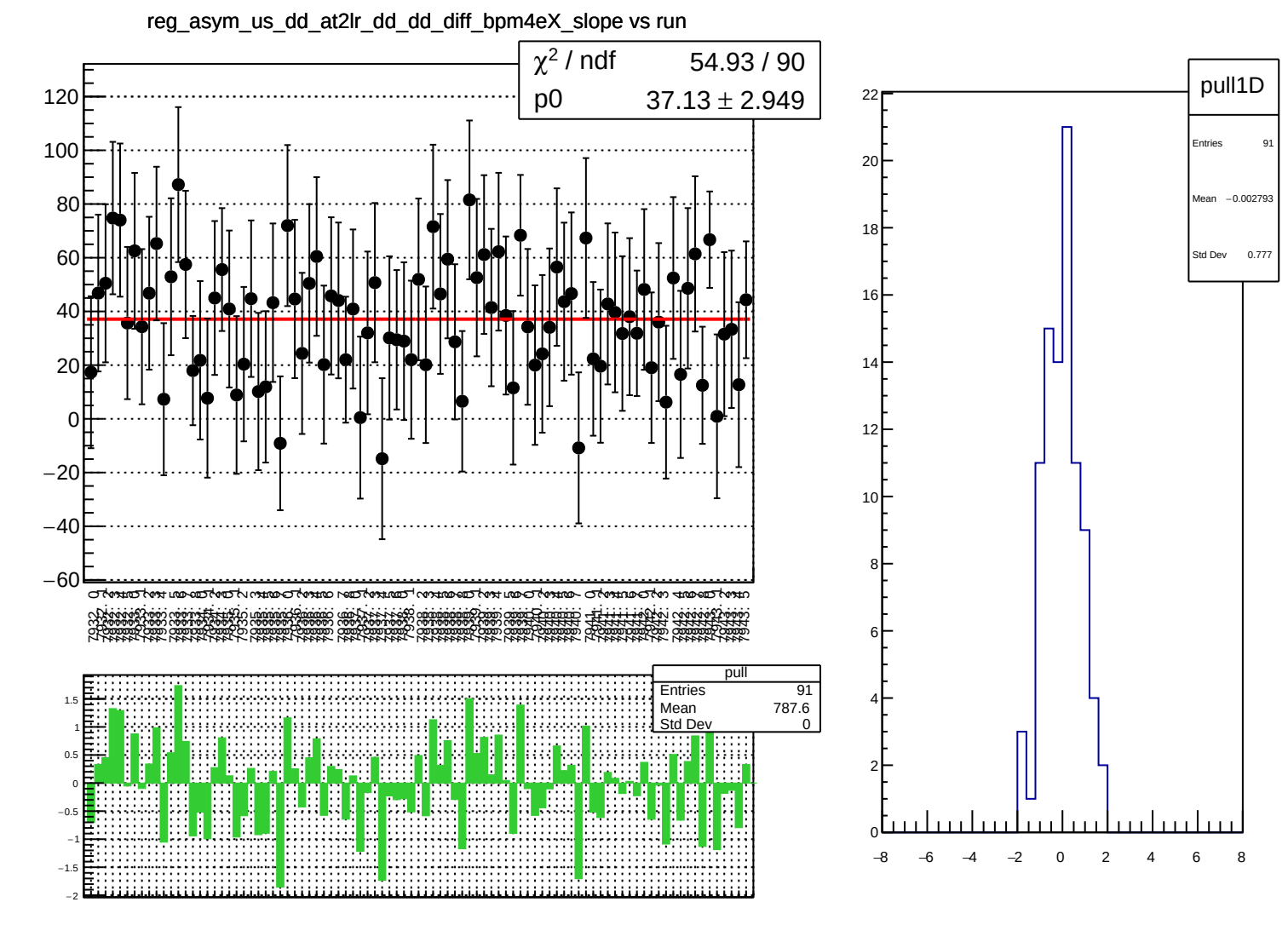

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.29 / 90
p0 −133.1± 6.823
pull
Entries 91
Mean 51.84
Std Dev 41.95
pull1D
Entries 91
Mean 0.002629
Std Dev 0.4604

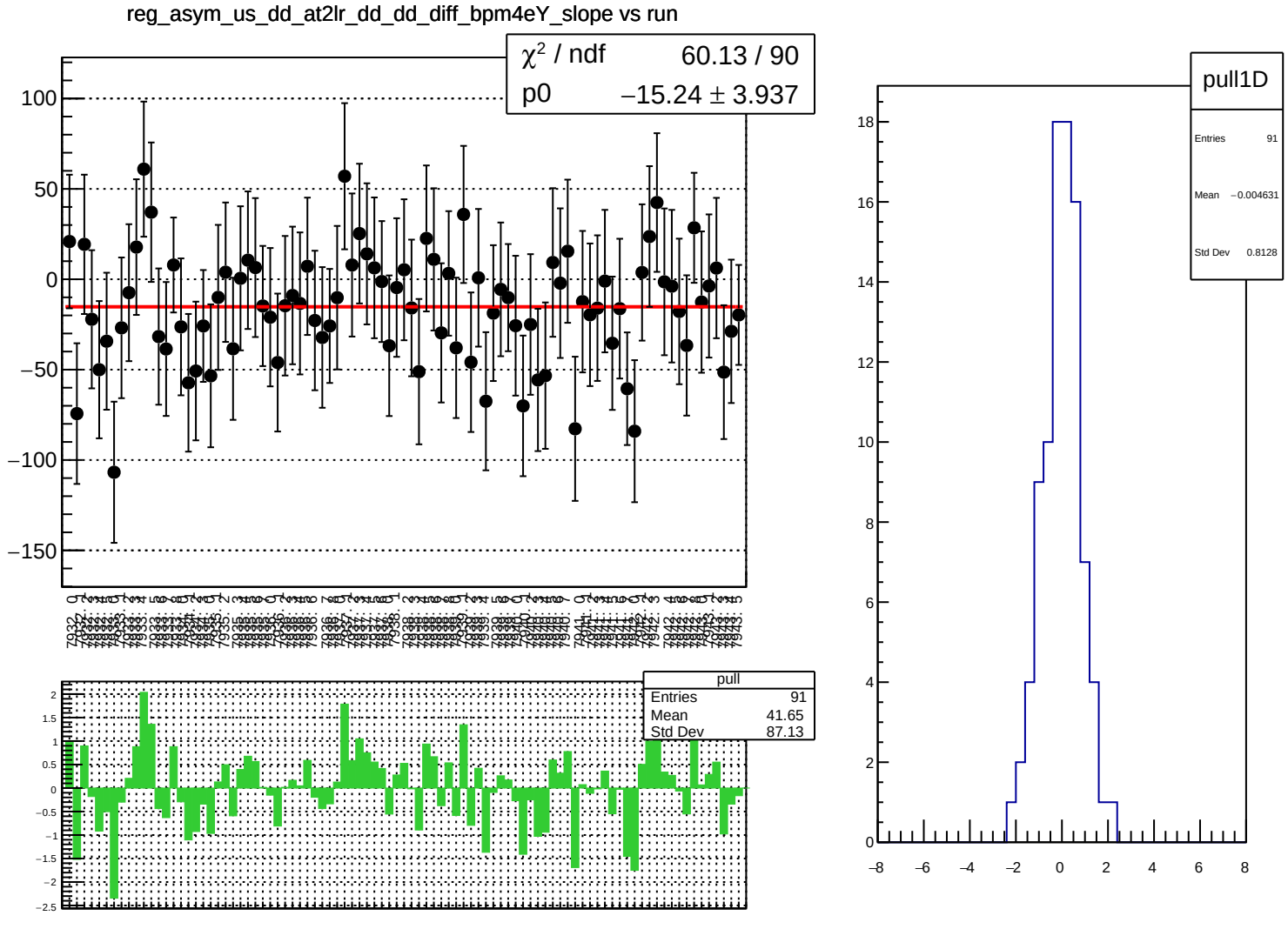

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.45 / 90
p0 35.07 ± 9.104
pull
Entries 91
Mean −231.3
Std Dev 0
pull1D
Entries 91
Mean 0.005823
Std Dev 0.4622

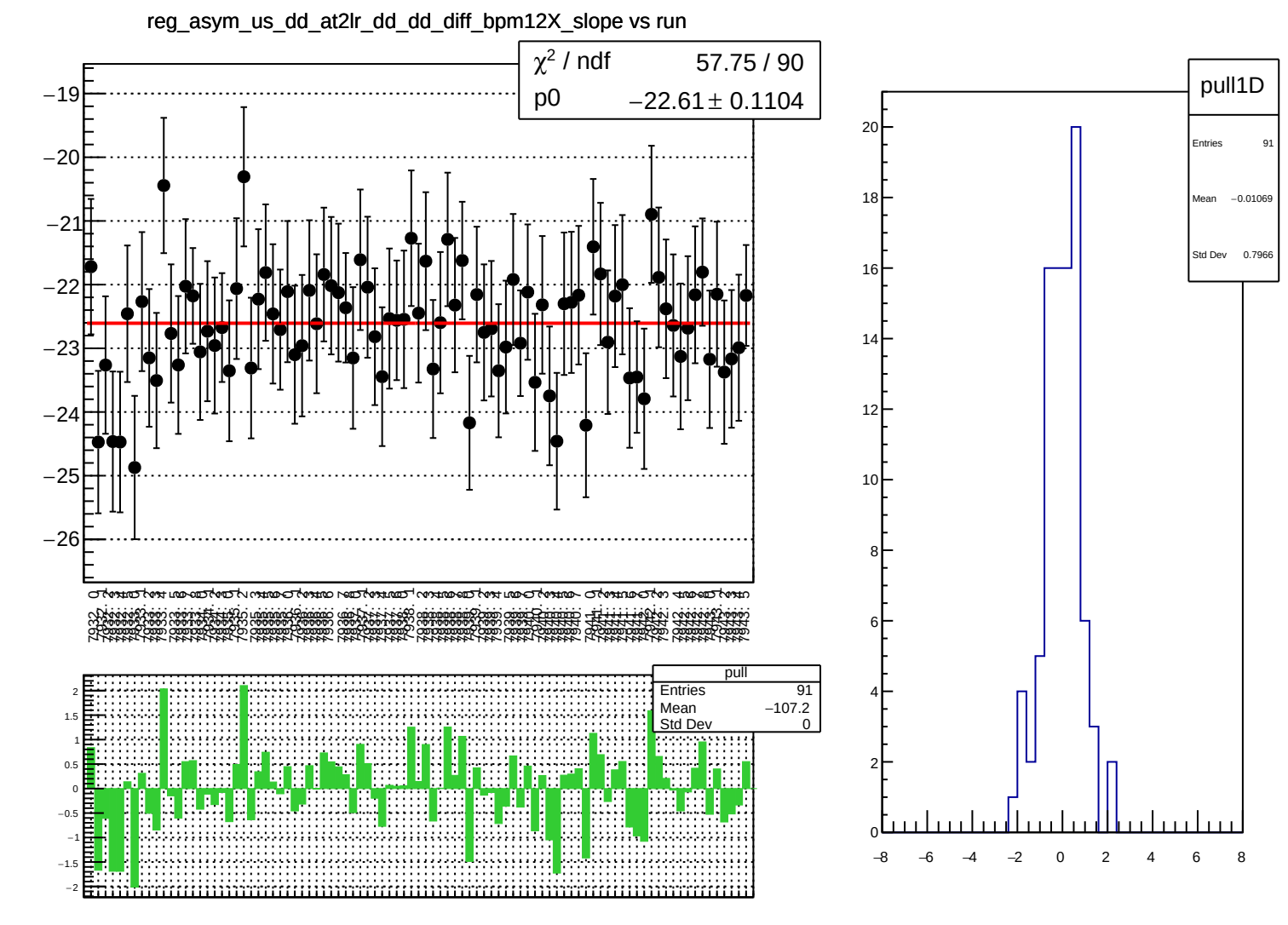

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 17.34 / 90
p0 22.66 ± 0.2552
pull
Entries 91
Mean −124.7
Std Dev 0
pull1D
Entries 91
Mean 0.00581
Std Dev 0.4365

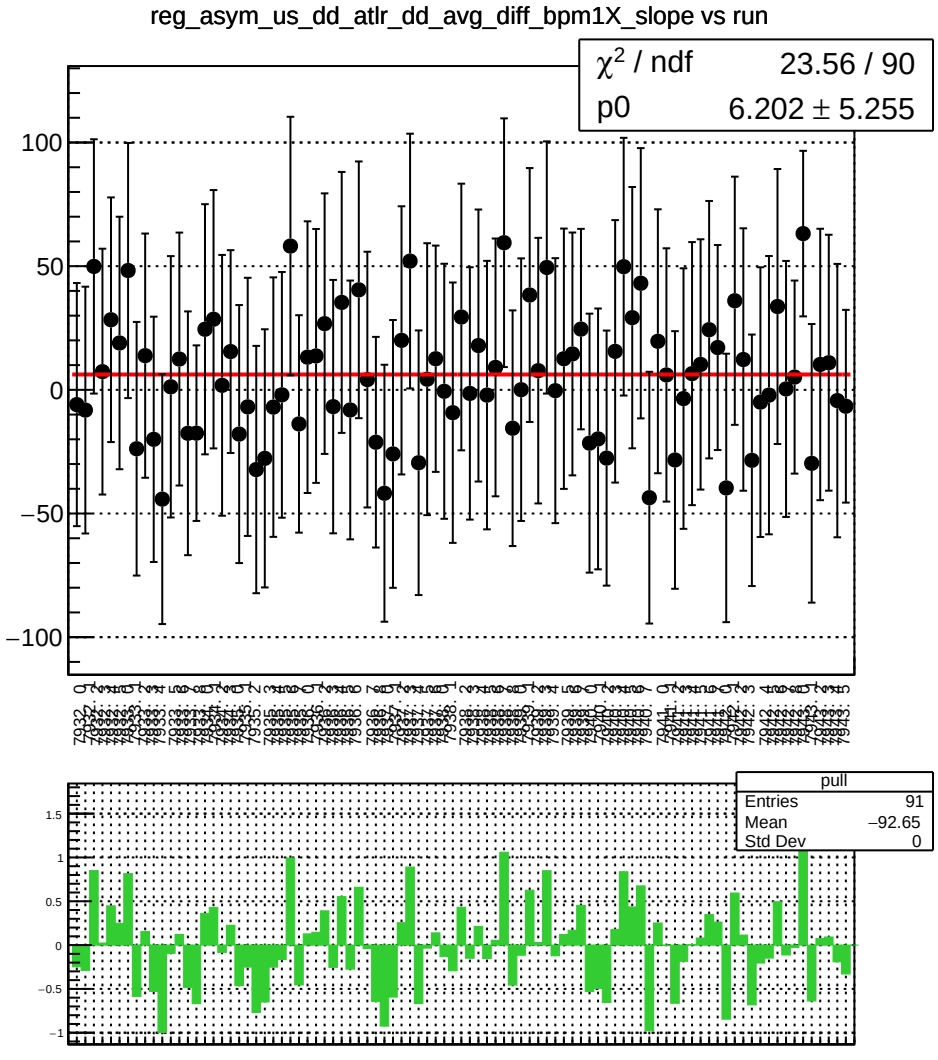

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 55.19 / 90
p0 −12.47 ± 3.278
pull
Entries 91
Mean 895.6
Std Dev 0
pull1D
Entries 91
Mean 0.002518
Std Dev 0.7788

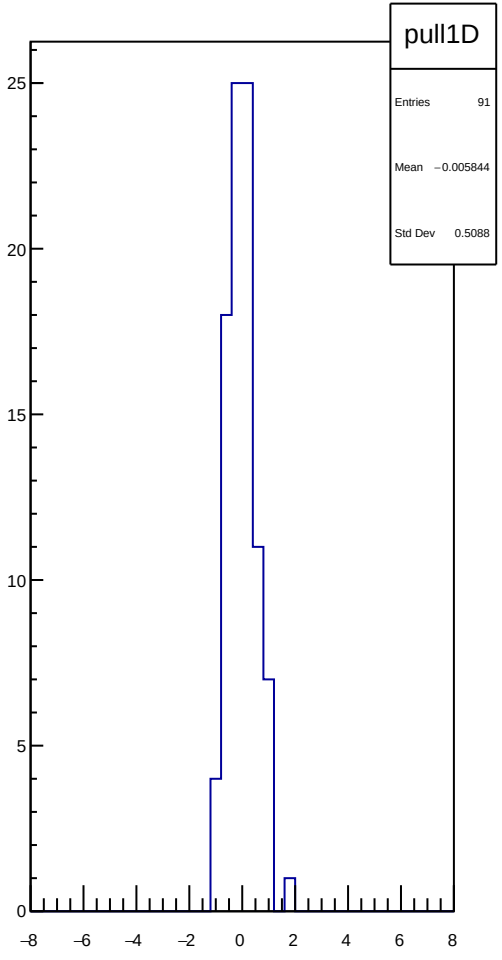

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.21 / 90
p0 13.06 ± 3.415
pull
Entries 91
Mean 8.23
Std Dev 90.61
pull1D
Entries 91
Mean 0.004572
Std Dev 0.8066

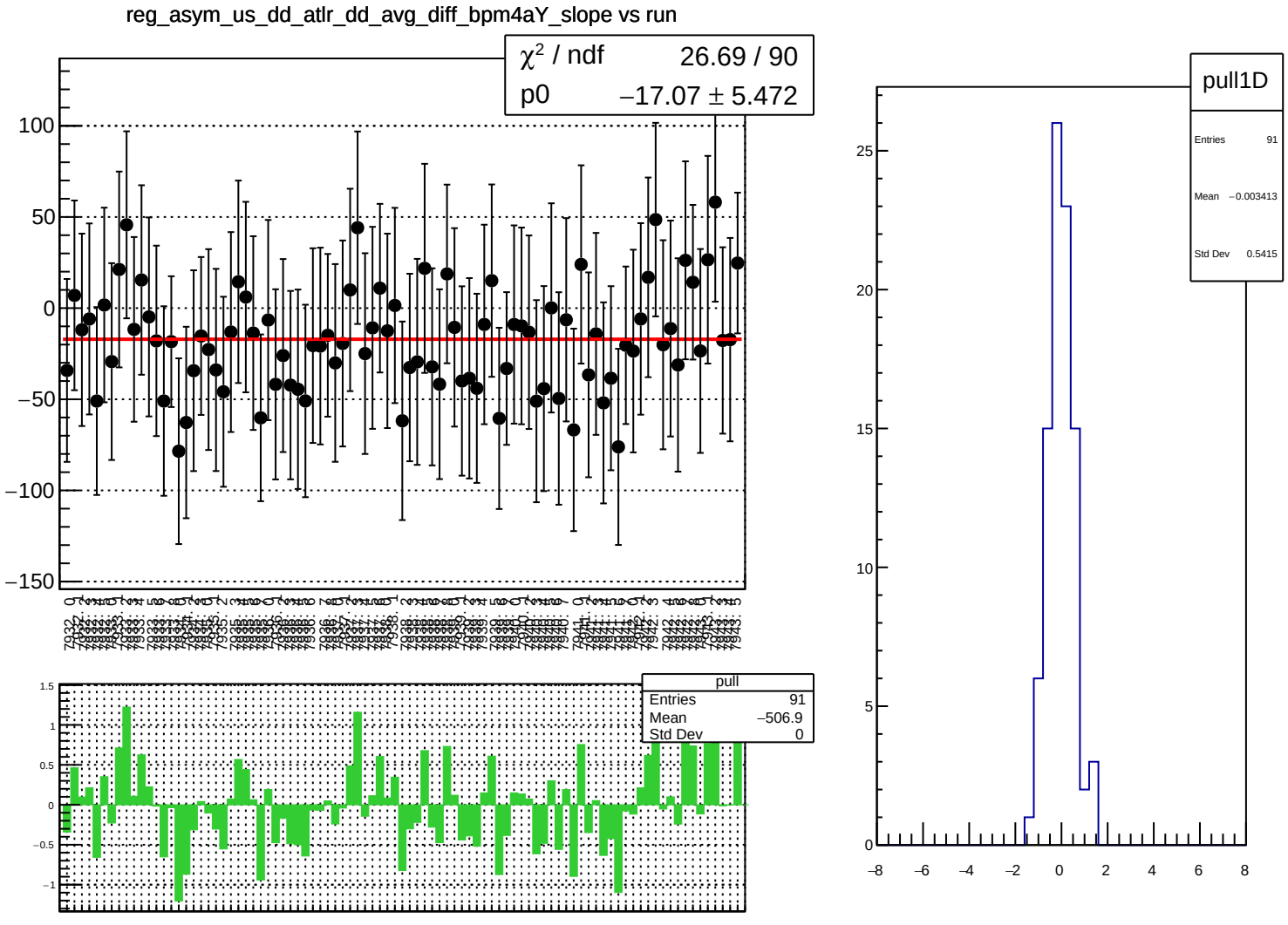

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.93 / 90
p0 37.13 ± 2.949
pull
Entries 91
Mean 787.6
Std Dev 0
pull1D
Entries 91
Mean −0.002793
Std Dev 0.777

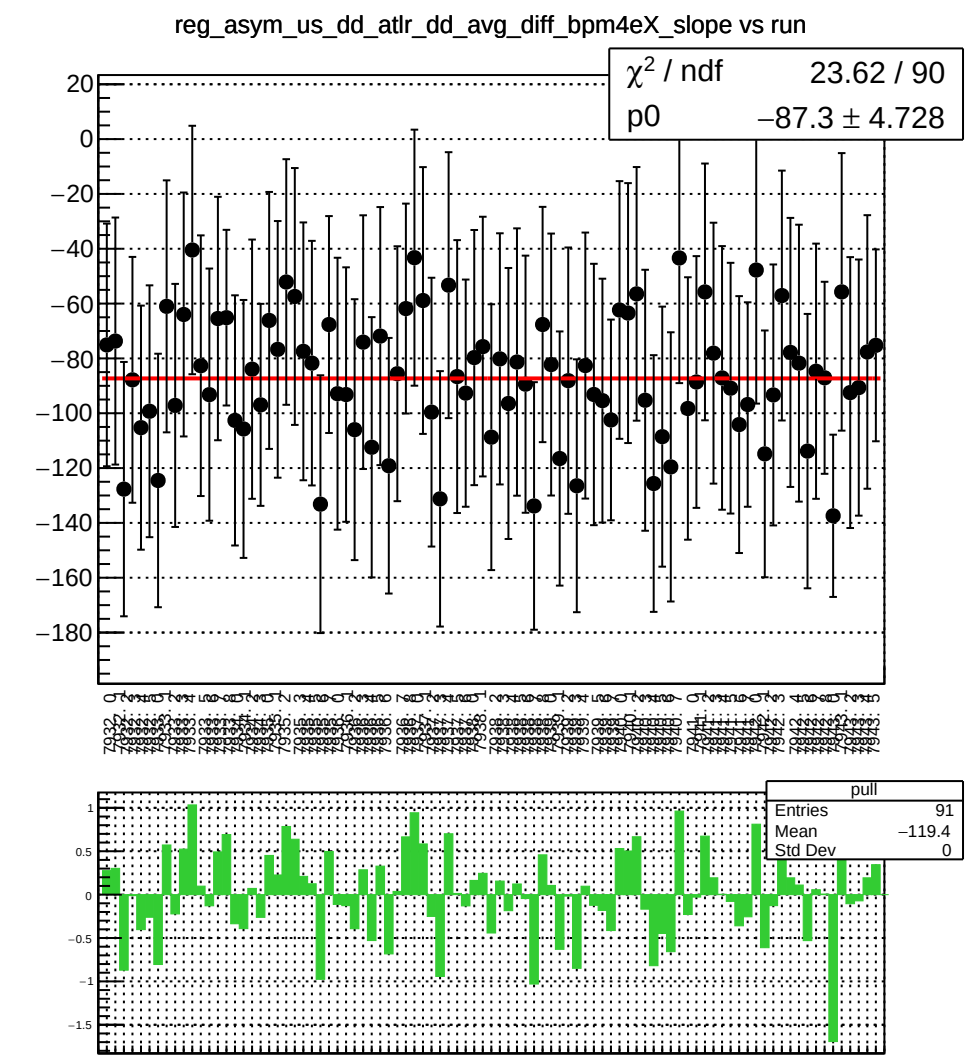

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.13 / 90
p0 −15.24 ± 3.937
pull
Entries 91
Mean 41.65
Std Dev 87.13
pull1D
Entries 91
Mean −0.004631
Std Dev 0.8128

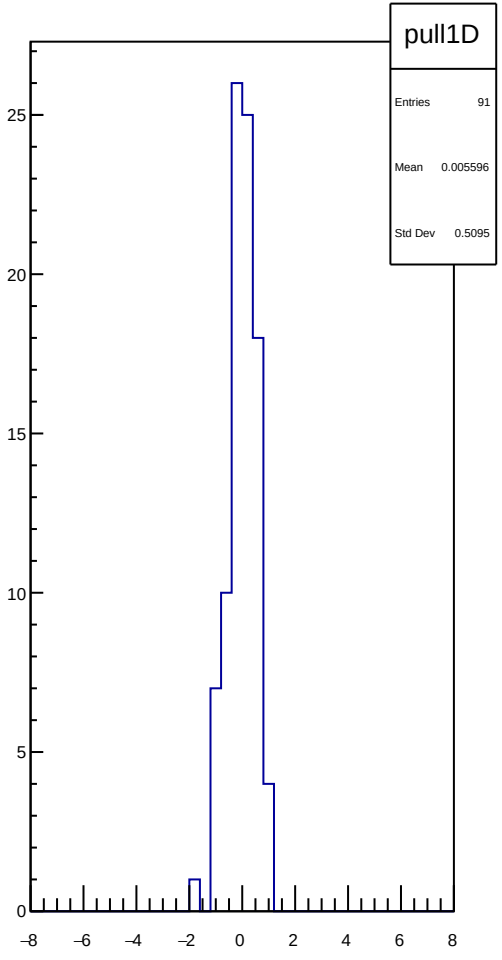

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 57.75 / 90
p0 −22.61 ± 0.1104
pull
Entries 91
Mean −107.2
Std Dev 0
pull1D
Entries 91
Mean −0.01069
Std Dev 0.7966

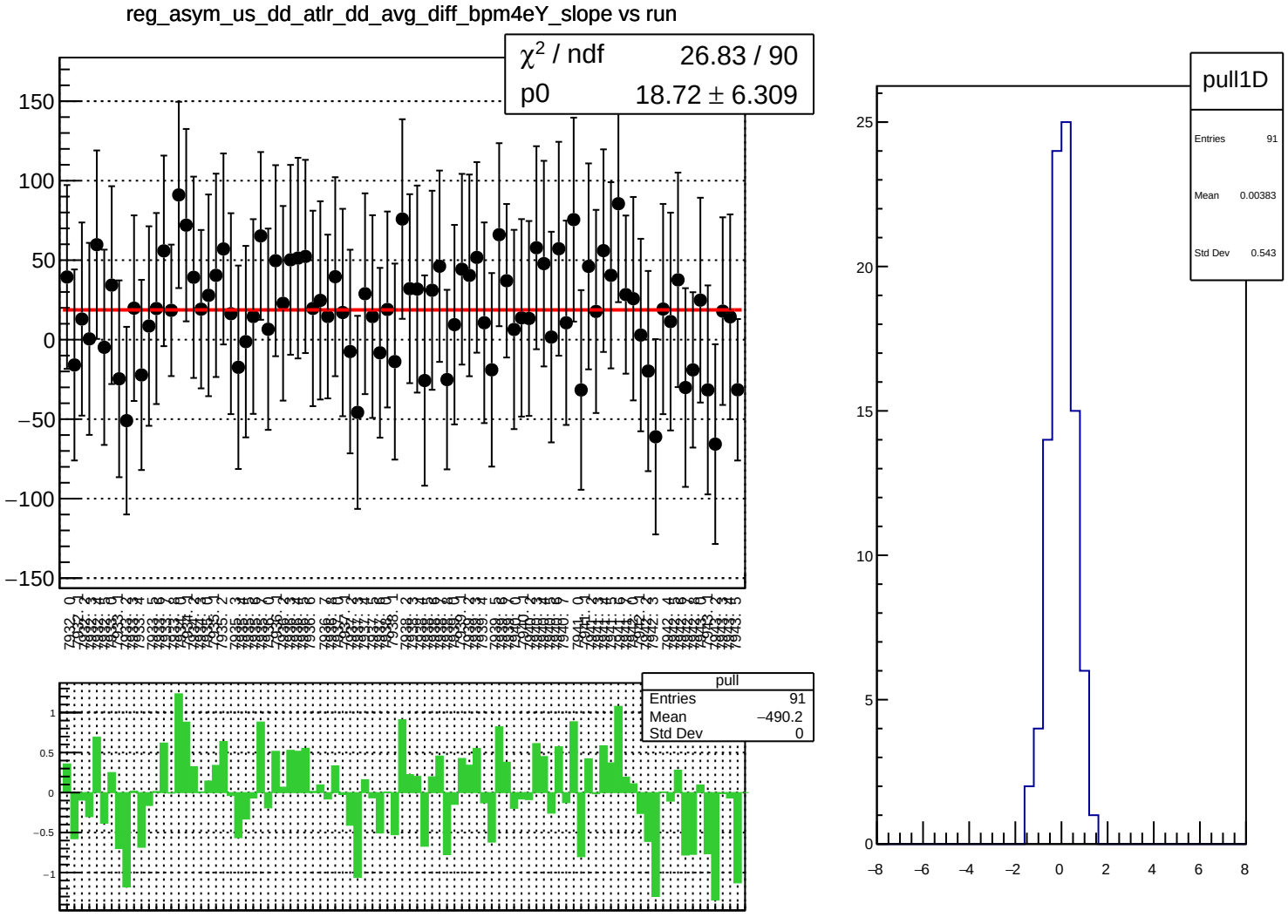

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.56 / 90
p0 6.202 ± 5.255
pull
Entries 91
Mean −92.65
Std Dev 0

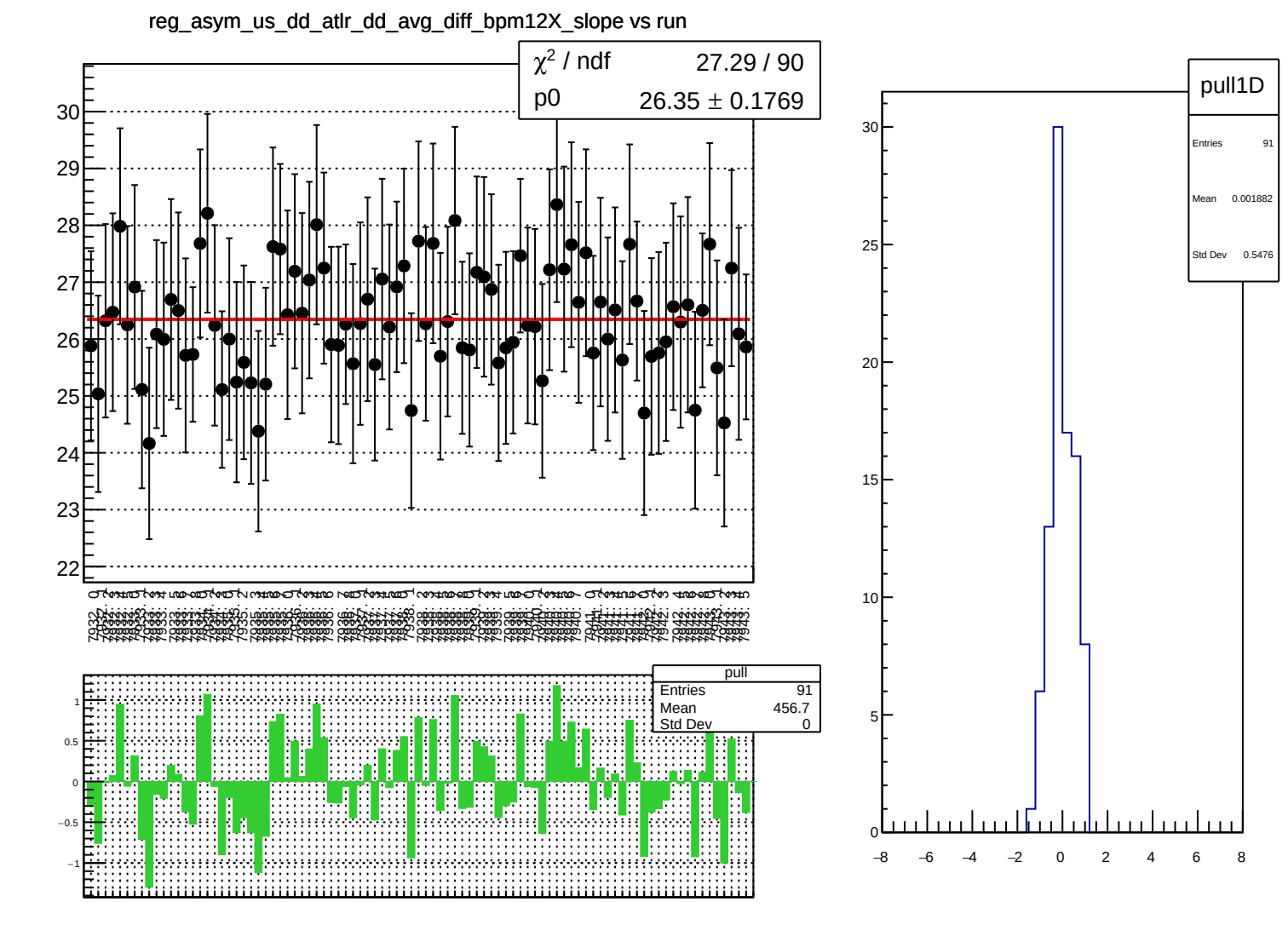

pull1D
Entries 91
Mean −0.005844
Std Dev 0.5088

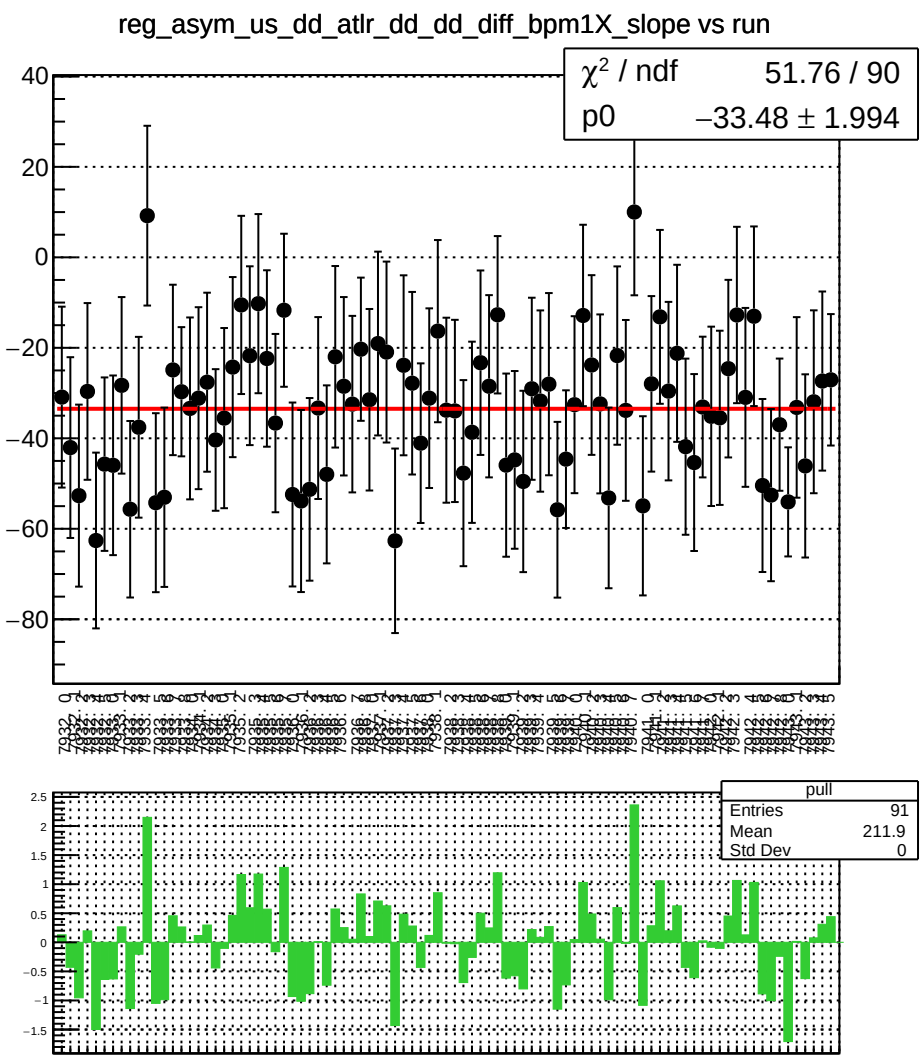

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.69 / 90
p0 −17.07 ± 5.472
100
50
0
−50
−100
−150
pull
Entries 91
Mean −506.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.003413
Std Dev 0.5415
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

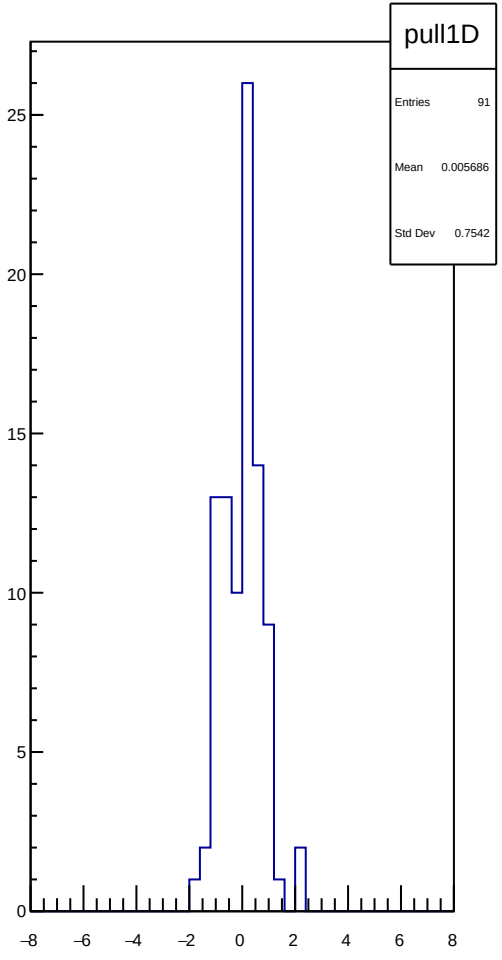

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.62 / 90
p0 −87.3 ± 4.728
pull
Entries 91
Mean −119.4
Std Dev 0

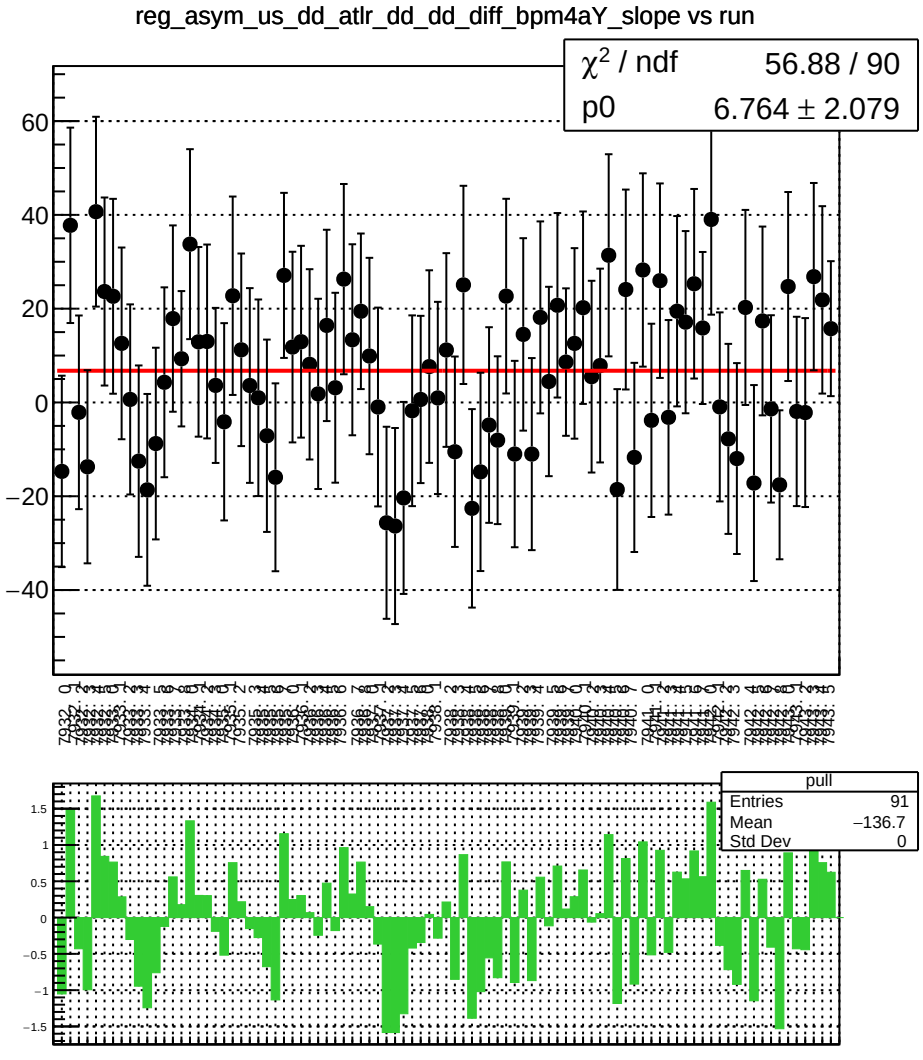

pull1D
Entries 91
Mean 0.005596
Std Dev 0.5095

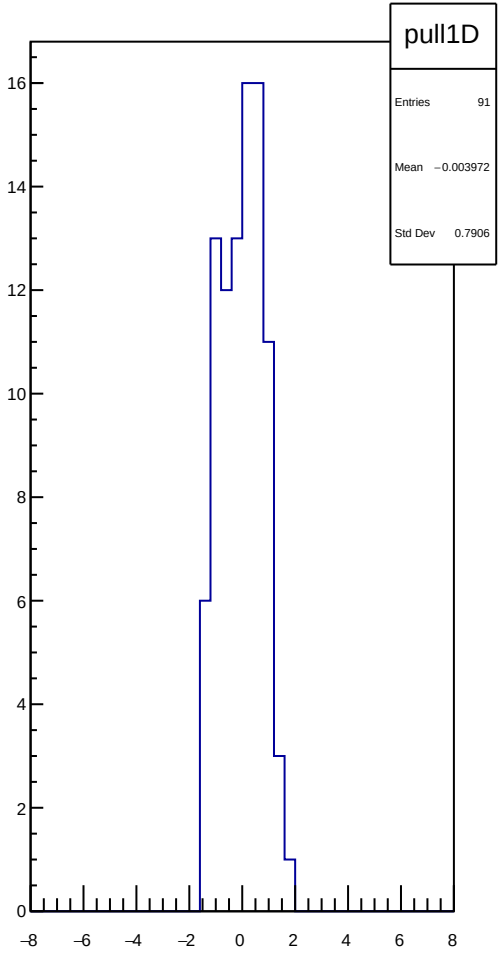

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 26.83 / 90
p0 18.72 ± 6.309
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −490.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.00383
Std Dev 0.543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

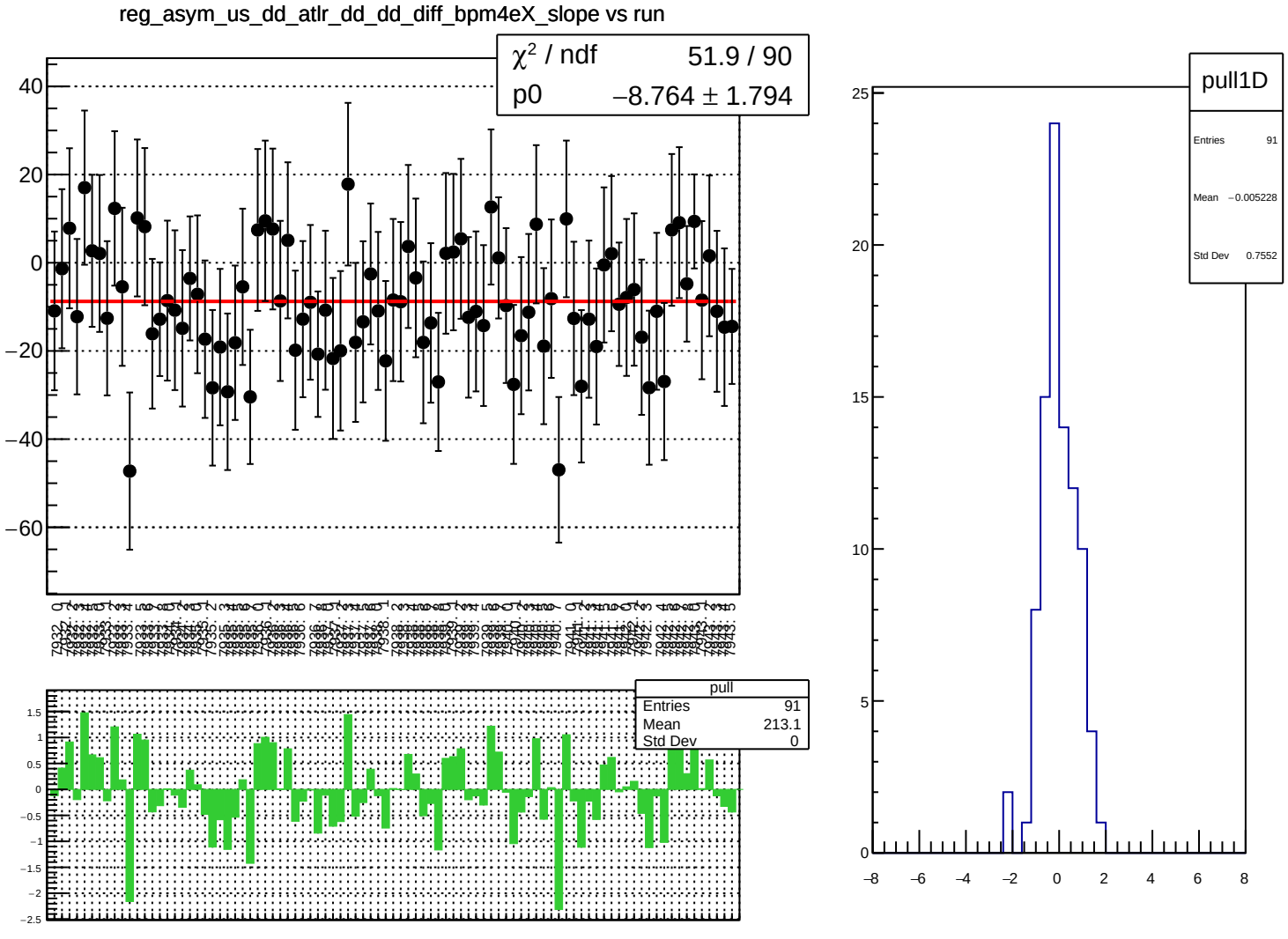

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.29 / 90
p0 26.35 ± 0.1769
pull
Entries 91
Mean 456.7
Std Dev 0
pull1D
Entries 91
Mean 0.001882
Std Dev 0.5476

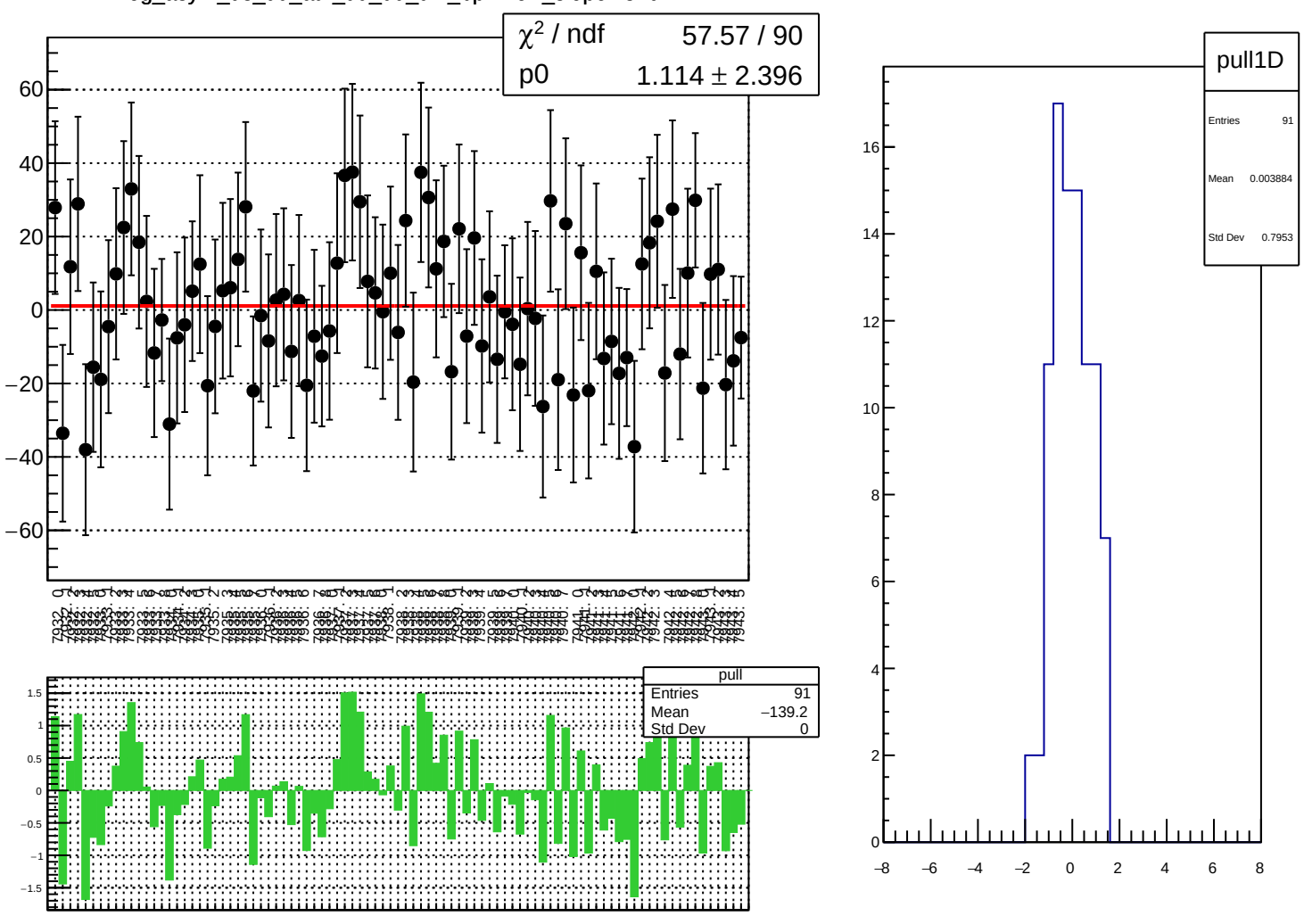

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 51.76 / 90
p0 −33.48 ± 1.994
pull
Entries 91
Mean 211.9
Std Dev 0

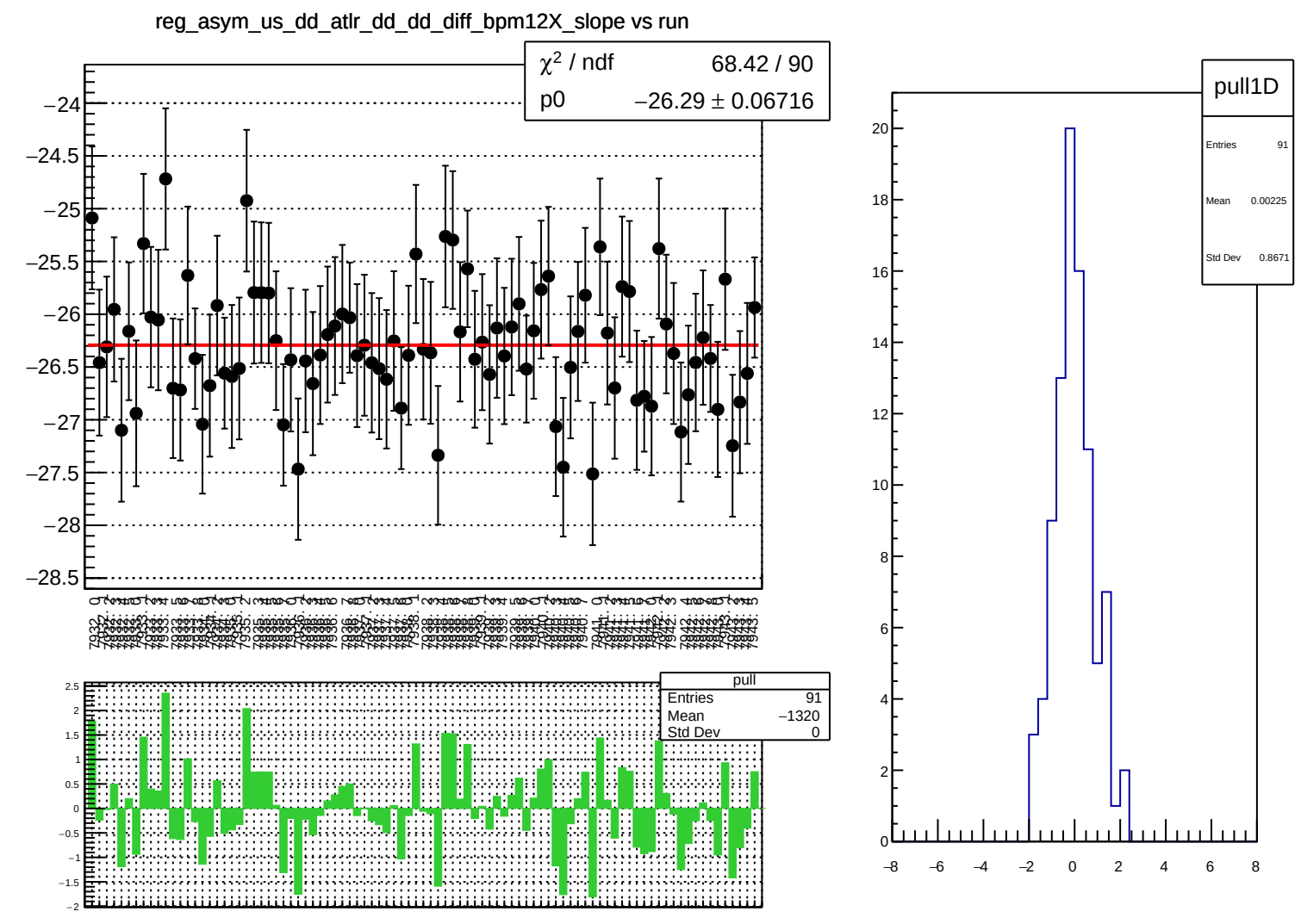

pull1D
Entries 91
Mean 0.005686
Std Dev 0.7542

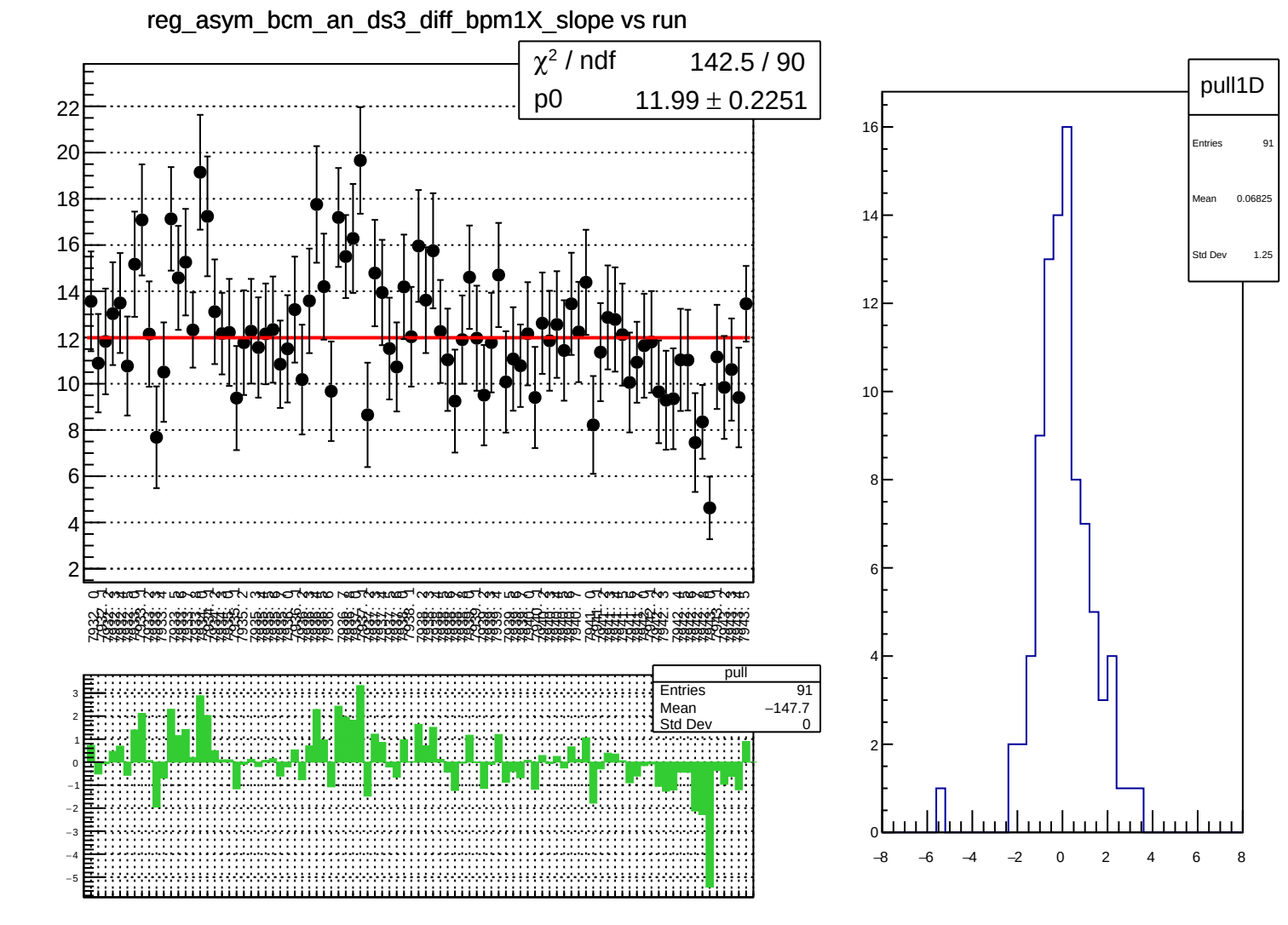

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.88 / 90
p0 6.764 ± 2.079
pull
Entries 91
Mean −136.7
Std Dev 0

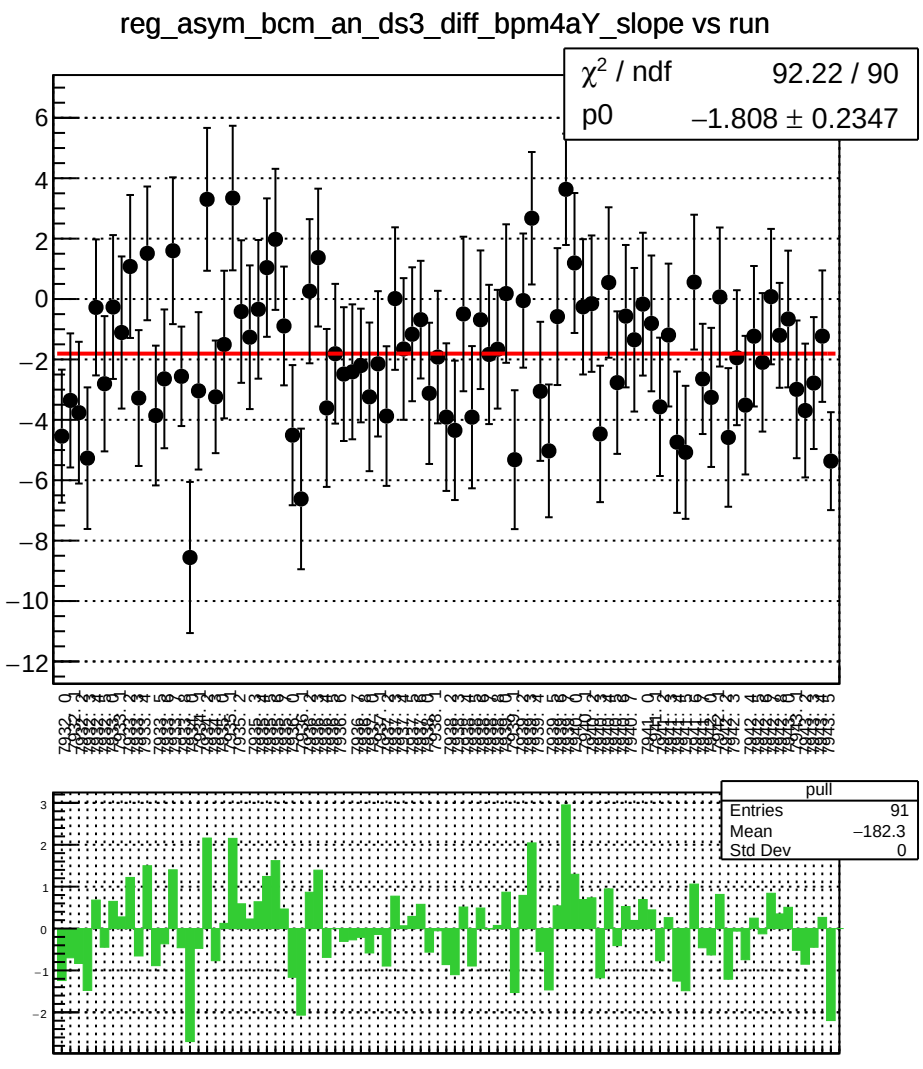

pull1D
Entries 91
Mean −0.003972
Std Dev 0.7906

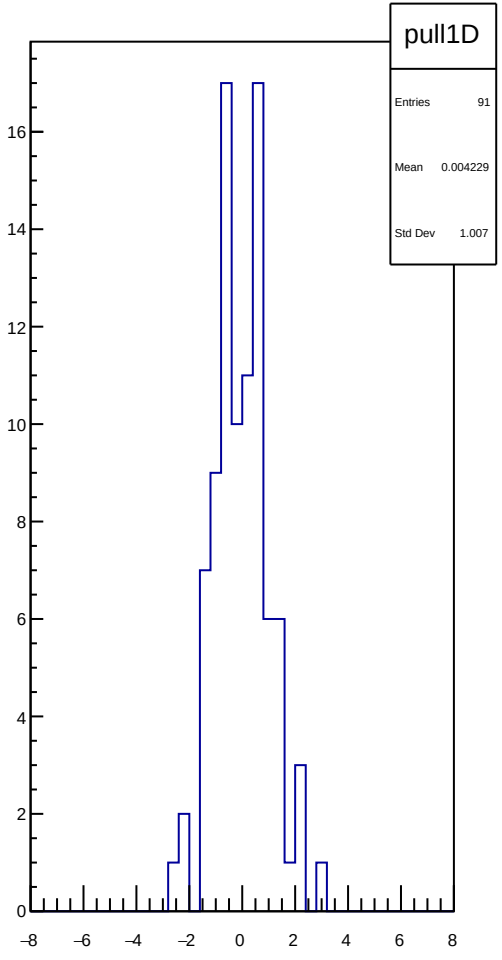

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.9 / 90
p0 −8.764 ± 1.794
pull
Entries 91
Mean 213.1
Std Dev 0
pull1D
Entries 91
Mean −0.005228
Std Dev 0.7552

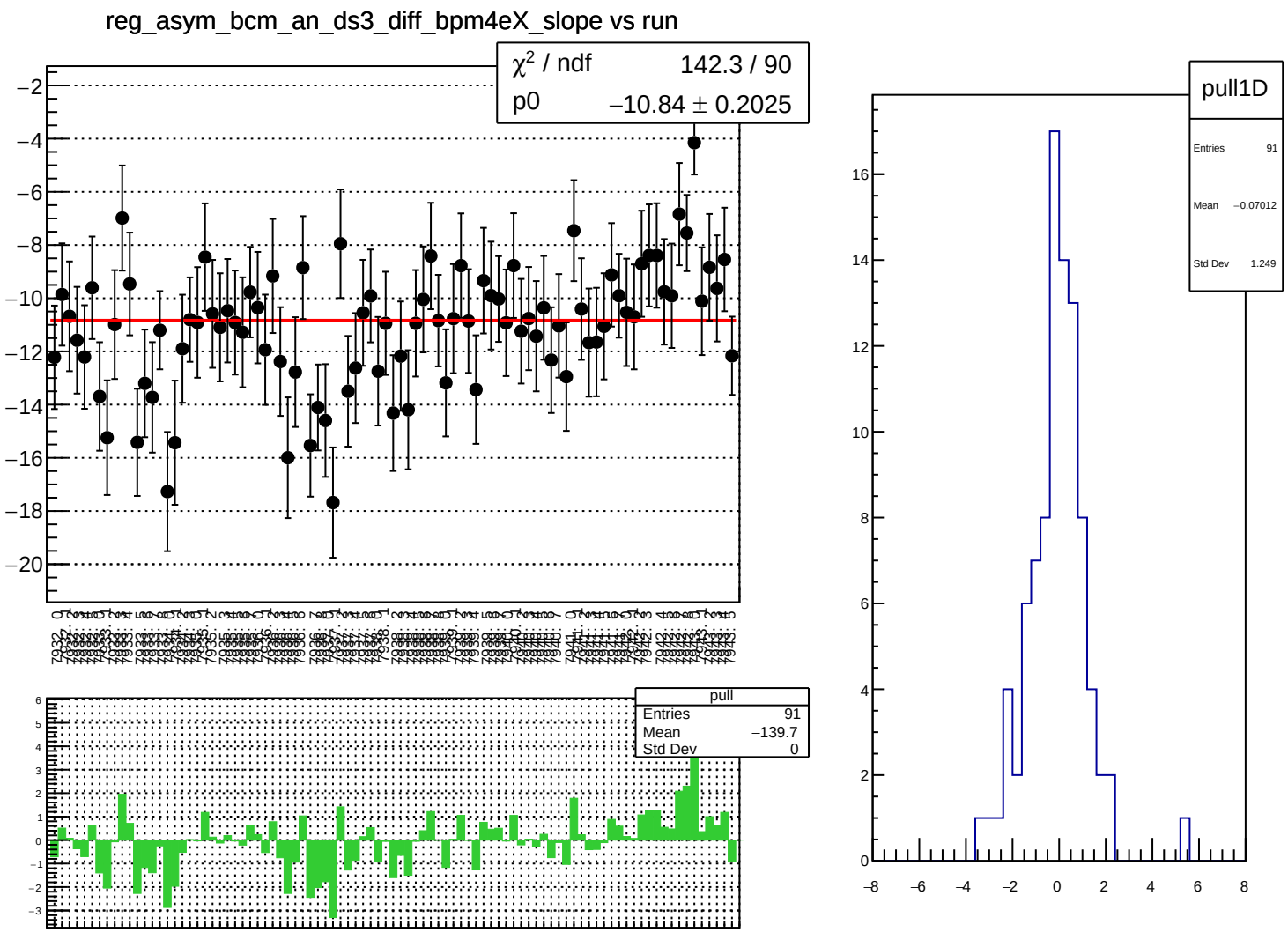

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.57 / 90
p0 1.114 ± 2.396
pull
Entries 91
Mean −139.2
Std Dev 0
pull1D
Entries 91
Mean 0.003884
Std Dev 0.7953

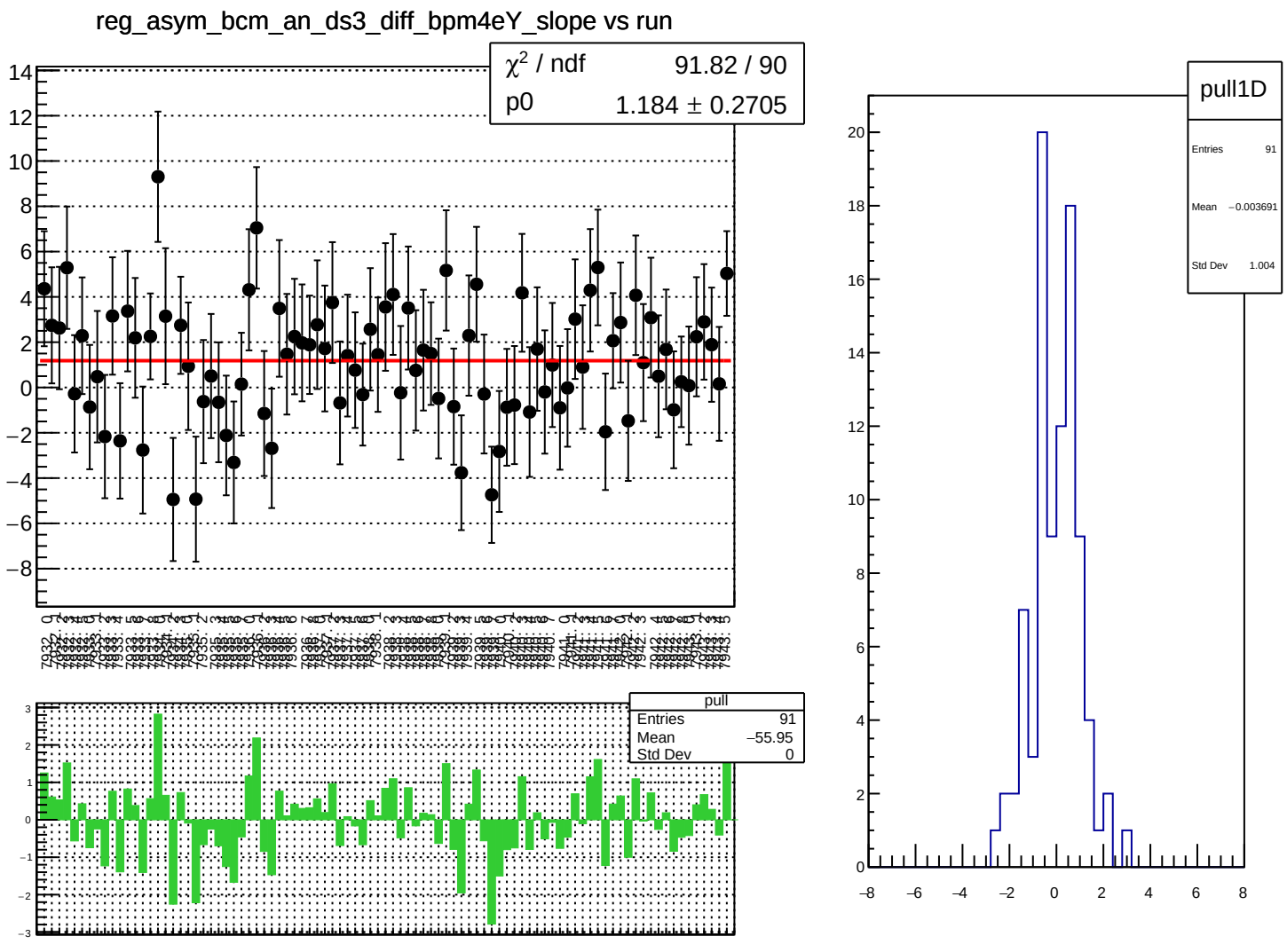

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 68.42 / 90
p0 −26.29 ± 0.06716
pull
Entries 91
Mean −1320
Std Dev 0
pull1D
Entries 91
Mean 0.00225
Std Dev 0.8671

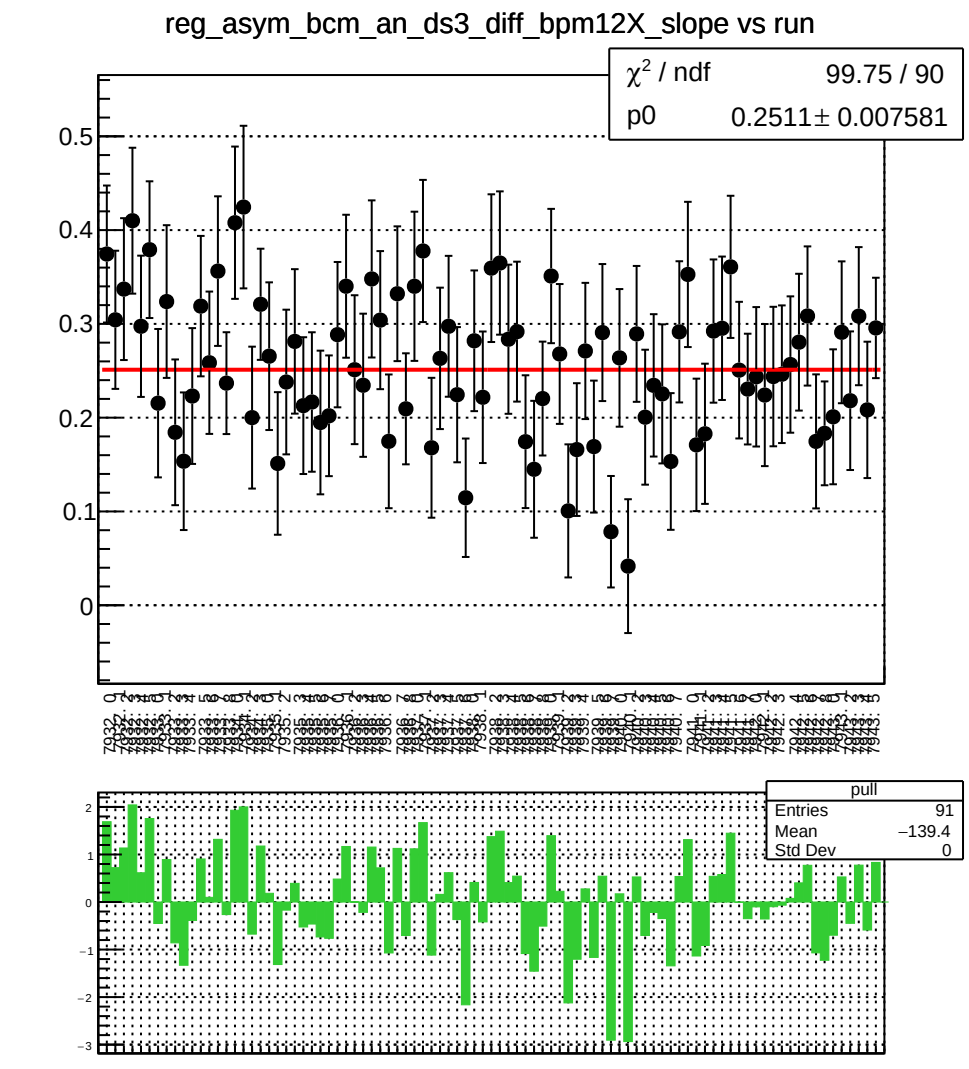

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 142.5 / 90
p0 11.99 ± 0.2251
pull
Entries 91
Mean −147.7
Std Dev 0
pull1D
Entries 91
Mean 0.06825
Std Dev 1.25

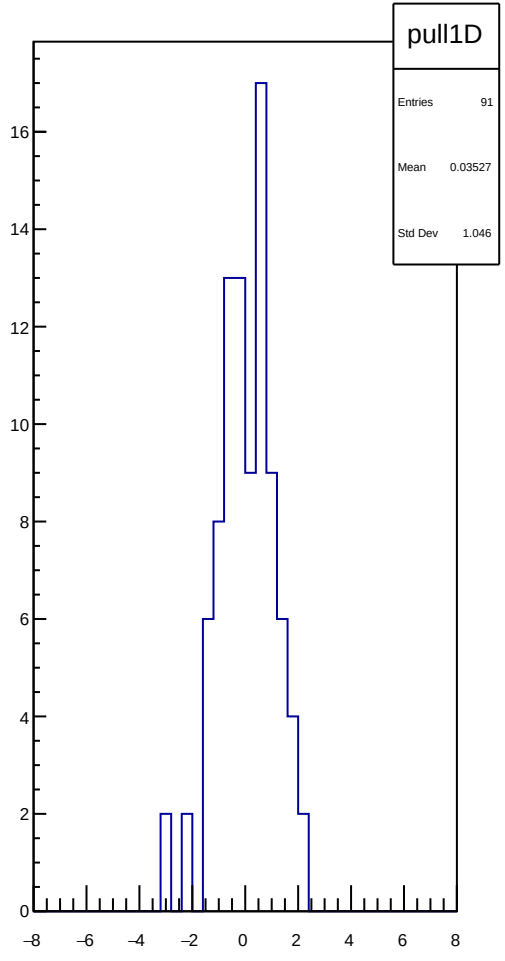

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 92.22 / 90
p0 −1.808 ± 0.2347
pull
Entries 91
Mean −182.3
Std Dev 0

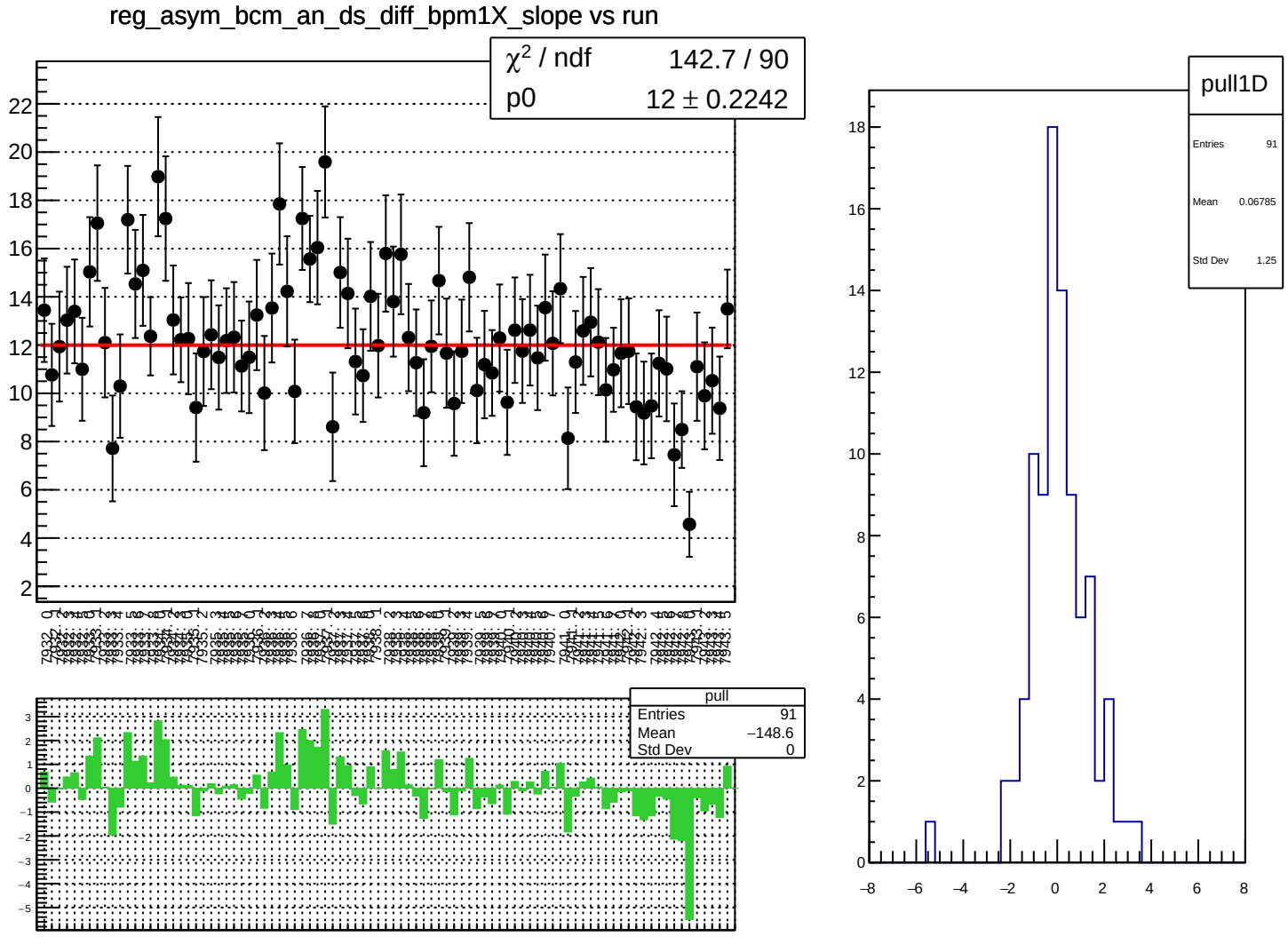

pull1D
Entries 91
Mean 0.004229
Std Dev 1.007

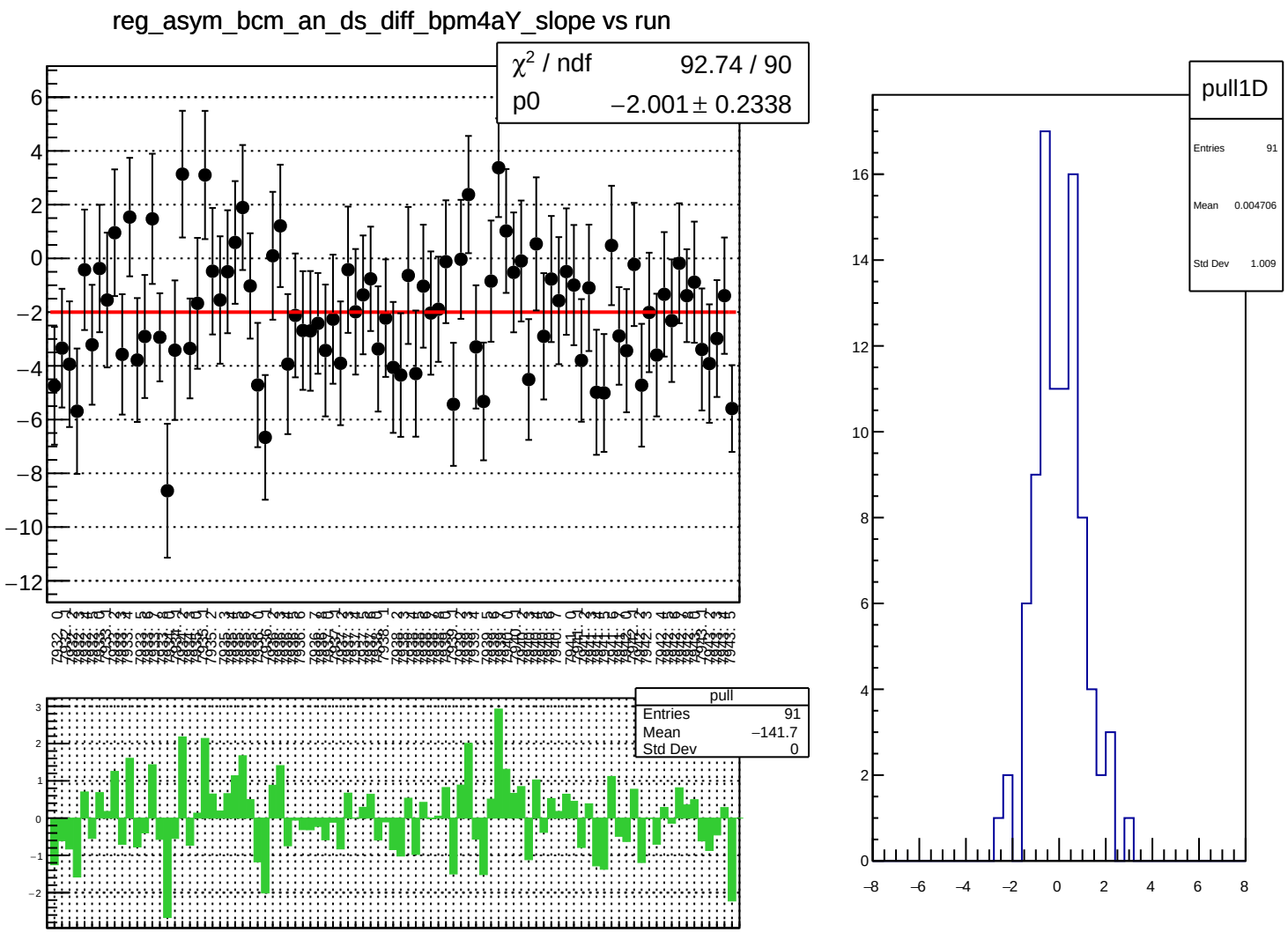

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 142.3 / 90
p0 −10.84 ± 0.2025
pull
Entries 91
Mean −139.7
Std Dev 0
pull1D
Entries 91
Mean −0.07012
Std Dev 1.249

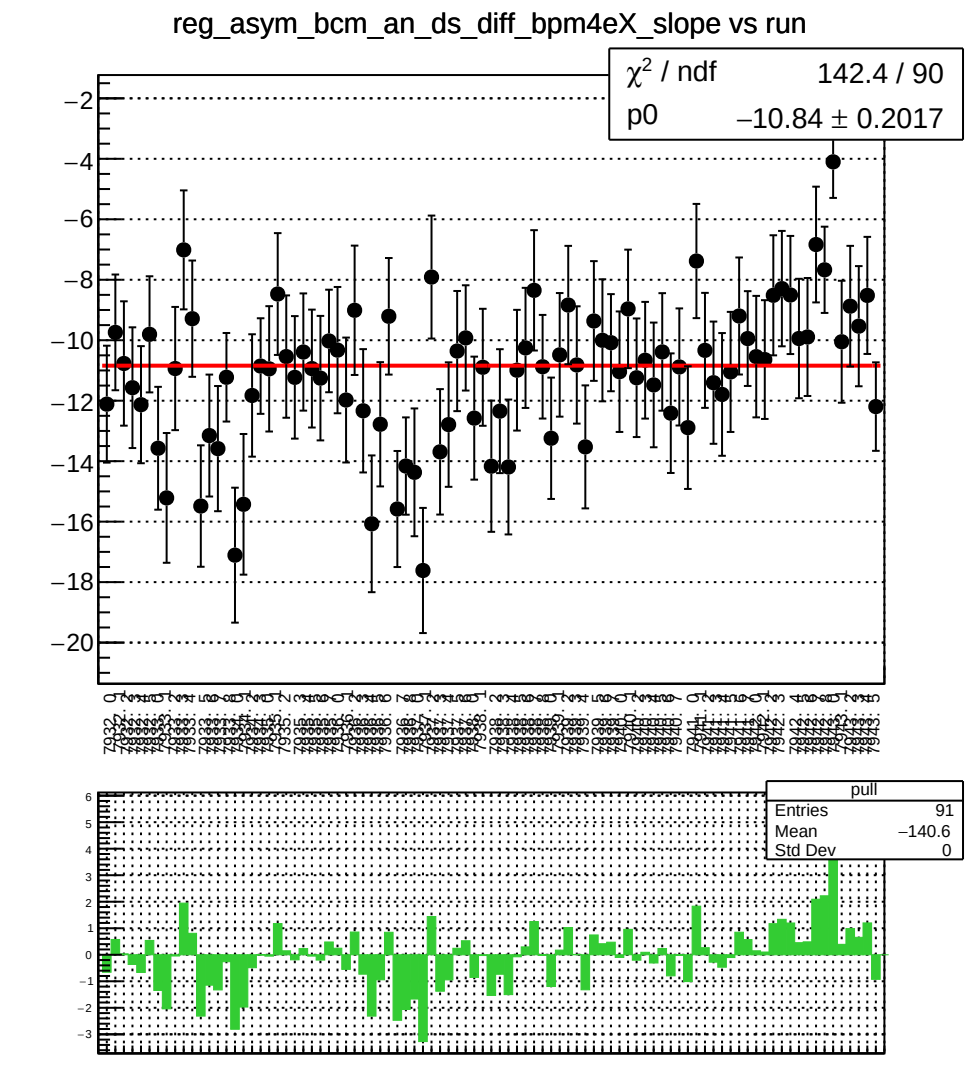

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 91.82 / 90
p0 1.184 ± 0.2705
pull
Entries 91
Mean −55.95
Std Dev 0
pull1D
Entries 91
Mean −0.003691
Std Dev 1.004

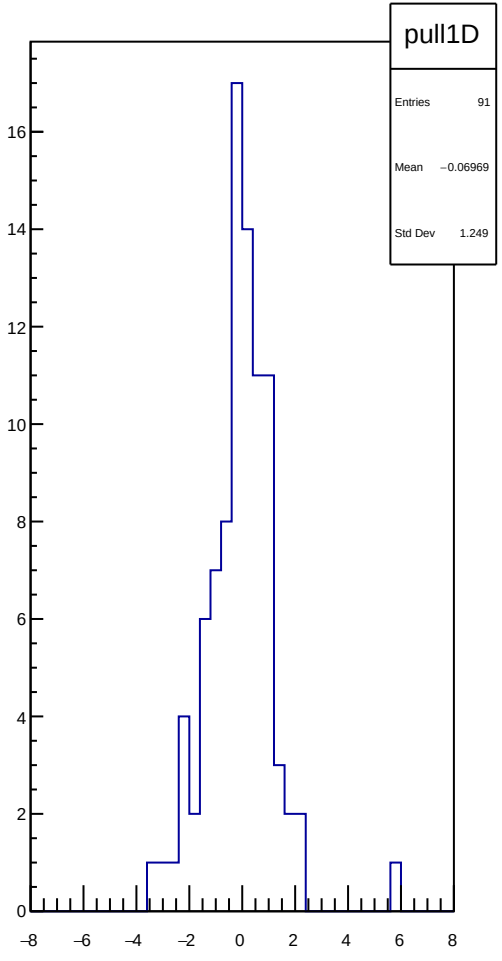

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 99.75 / 90
p0 0.2511± 0.007581
pull
Entries 91
Mean −139.4
Std Dev 0

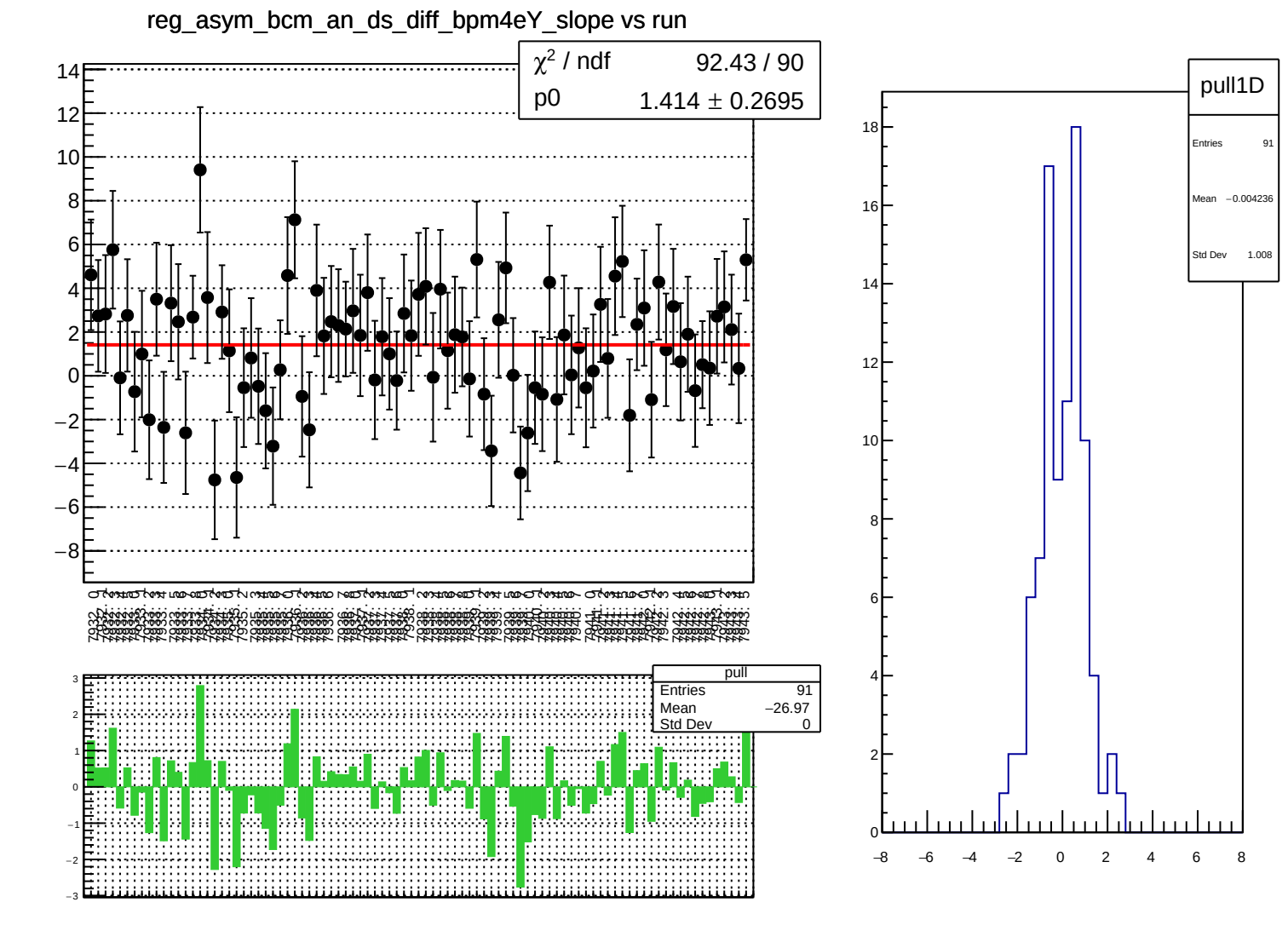

pull1D
Entries 91
Mean 0.03527
Std Dev 1.046

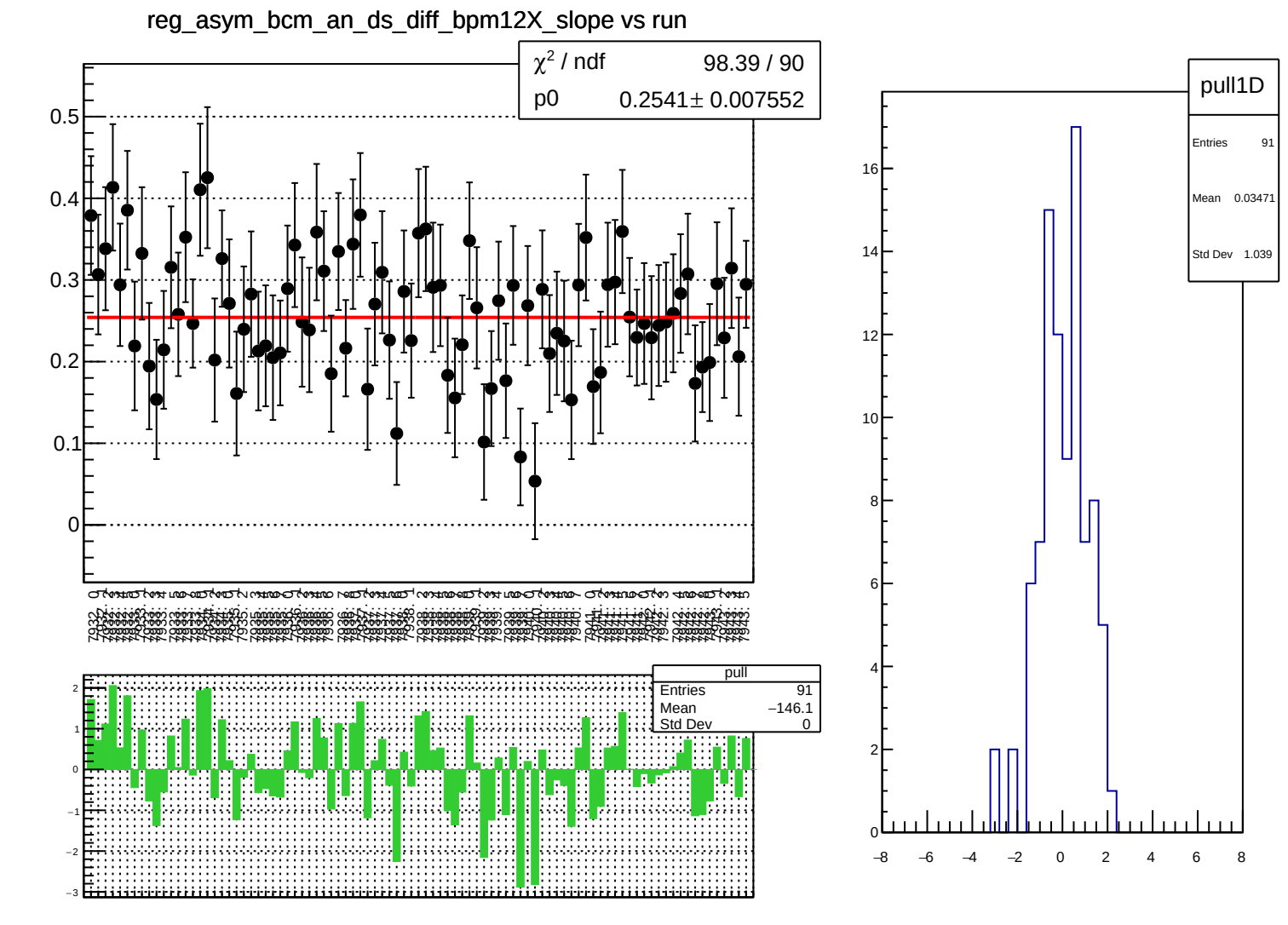

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 142.7 / 90
p0 12 ± 0.2242
pull
Entries 91
Mean −148.6
Std Dev 0
pull1D
Entries 91
Mean 0.06785
Std Dev 1.25

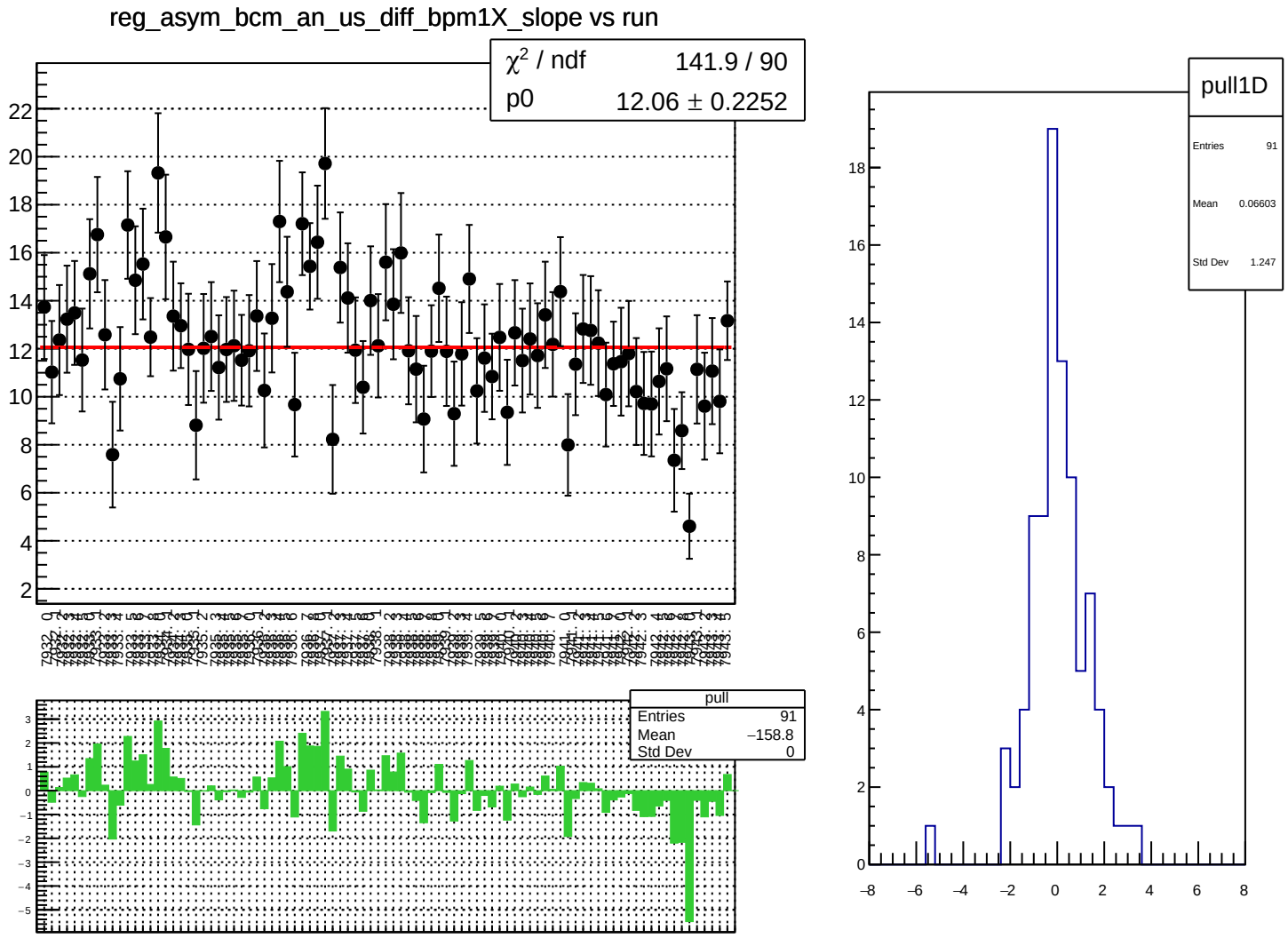

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 92.74 / 90
p0 −2.001 ± 0.2338
pull
Entries 91
Mean −141.7
Std Dev 0
pull1D
Entries 91
Mean 0.004706
Std Dev 1.009

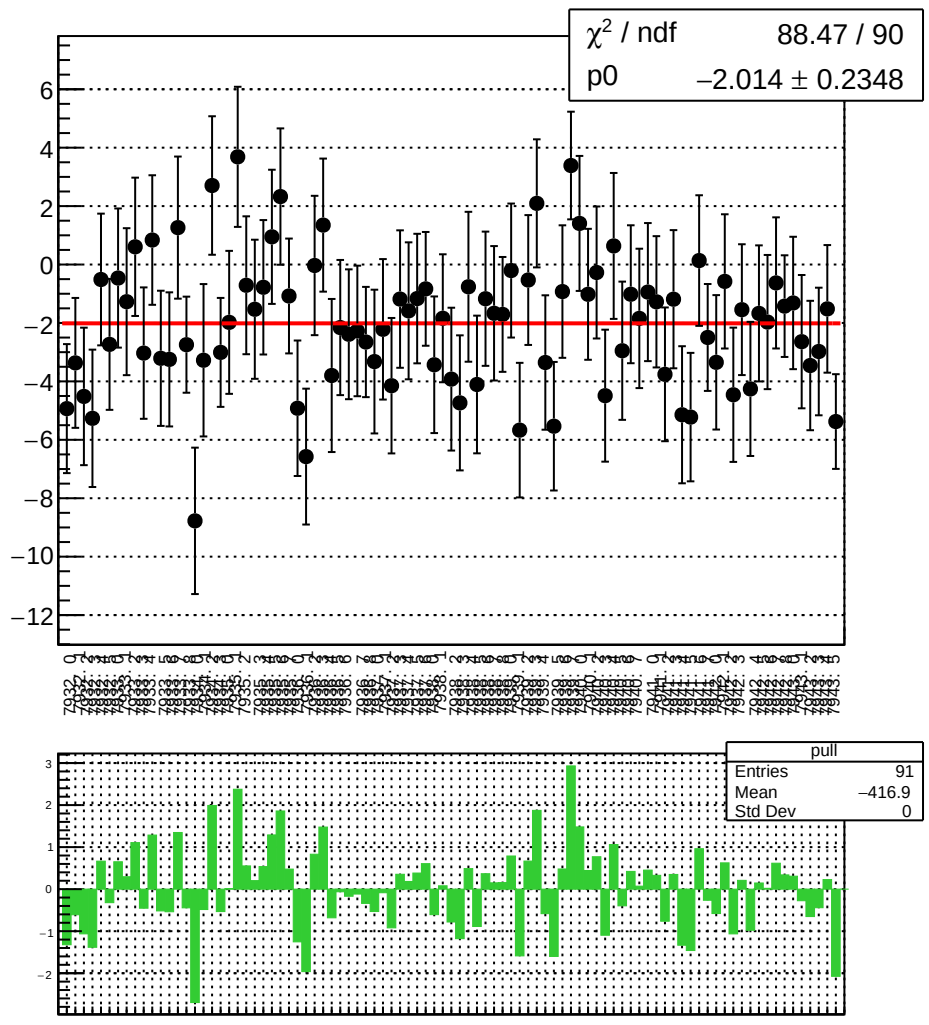

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 142.4 / 90
p0 −10.84 ± 0.2017
pull
Entries 91
Mean −140.6
Std Dev 0

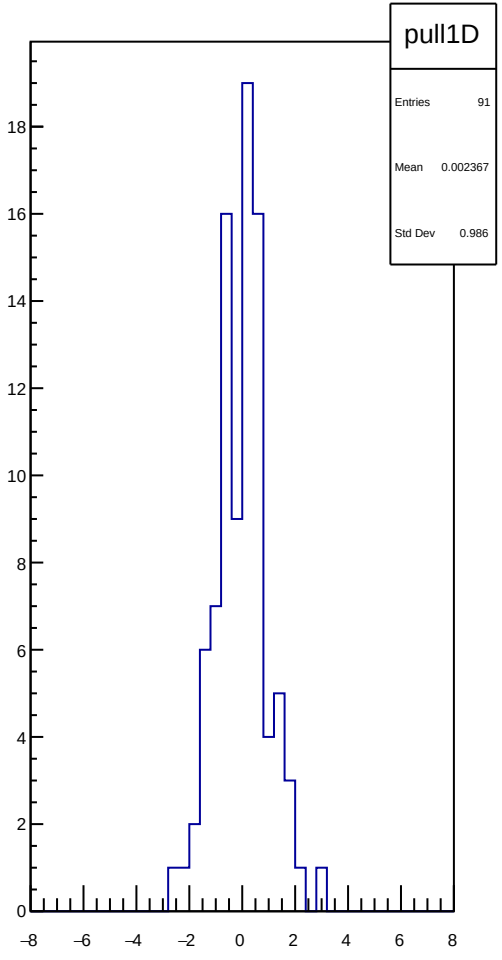

pull1D
Entries 91
Mean −0.06969
Std Dev 1.249

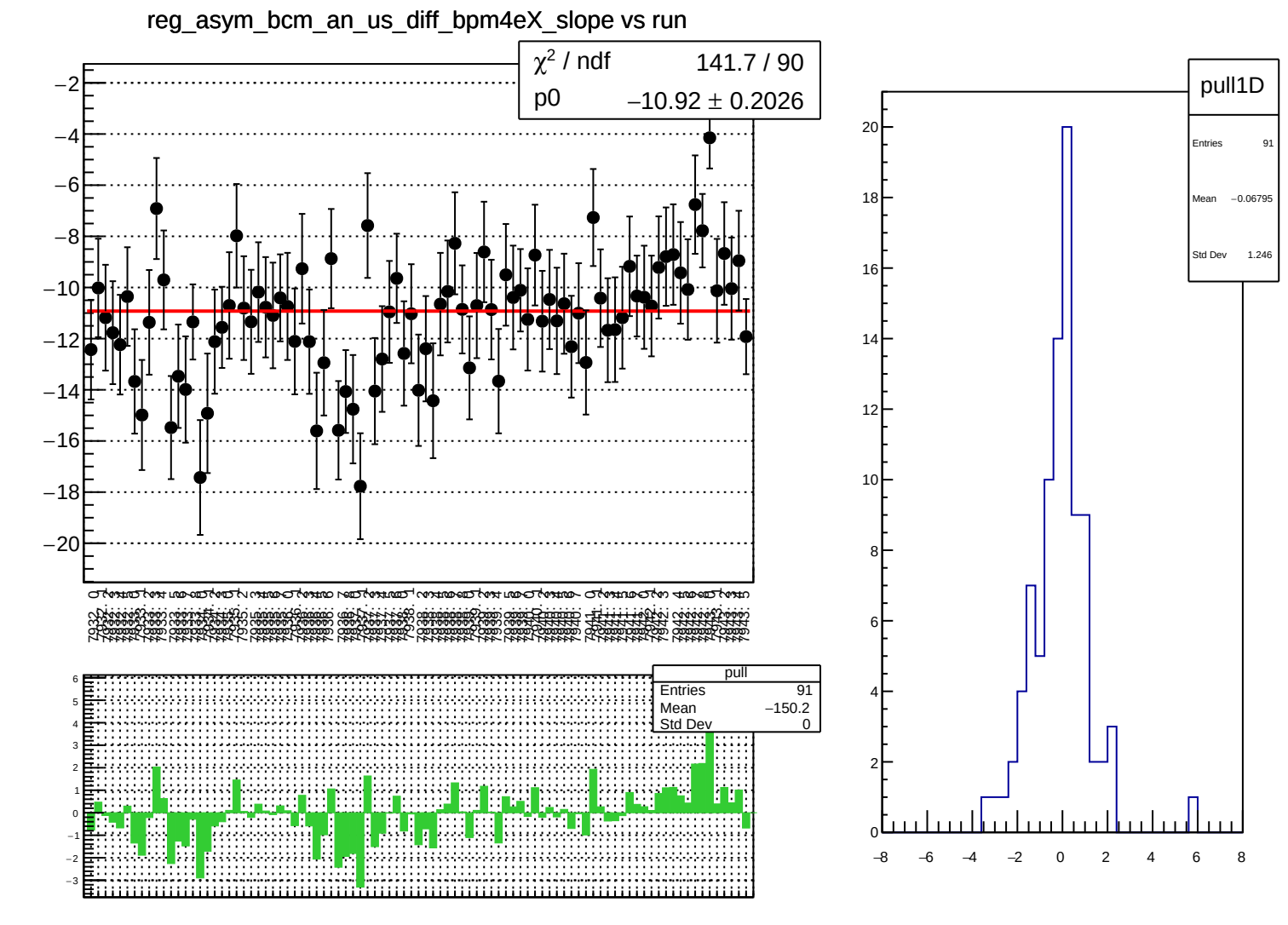

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 92.43 / 90
p0 1.414 ± 0.2695
pull
Entries 91
Mean −26.97
Std Dev 0
pull1D
Entries 91
Mean −0.004236
Std Dev 1.008

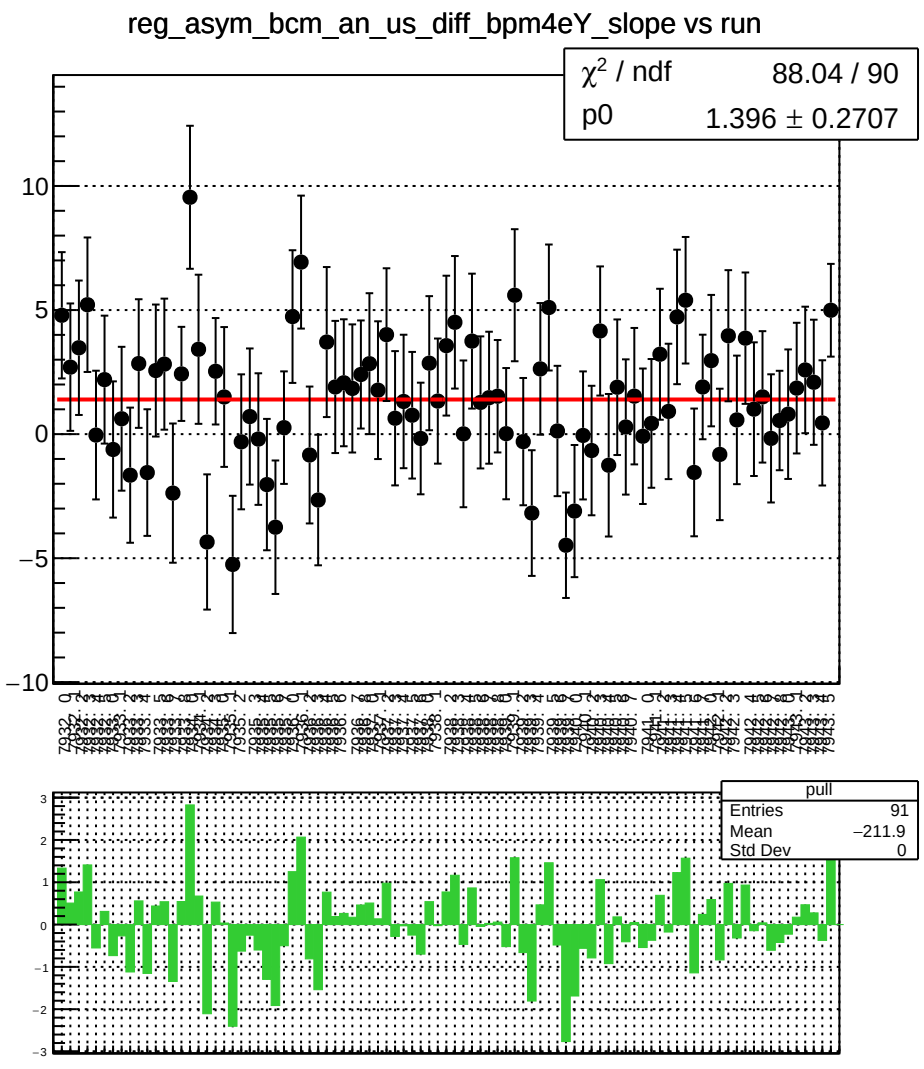

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 98.39 / 90
p0 0.2541± 0.007552
pull
Entries 91
Mean −146.1
Std Dev 0
pull1D
Entries 91
Mean 0.03471
Std Dev 1.039

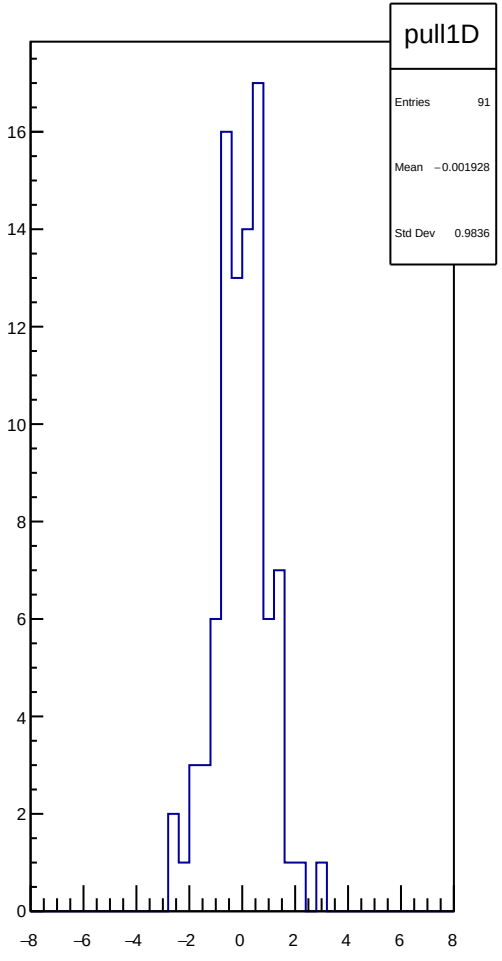

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 141.9 / 90
p0 12.06 ± 0.2252
pull
Entries 91
Mean −158.8
Std Dev 0
pull1D
Entries 91
Mean 0.06603
Std Dev 1.247

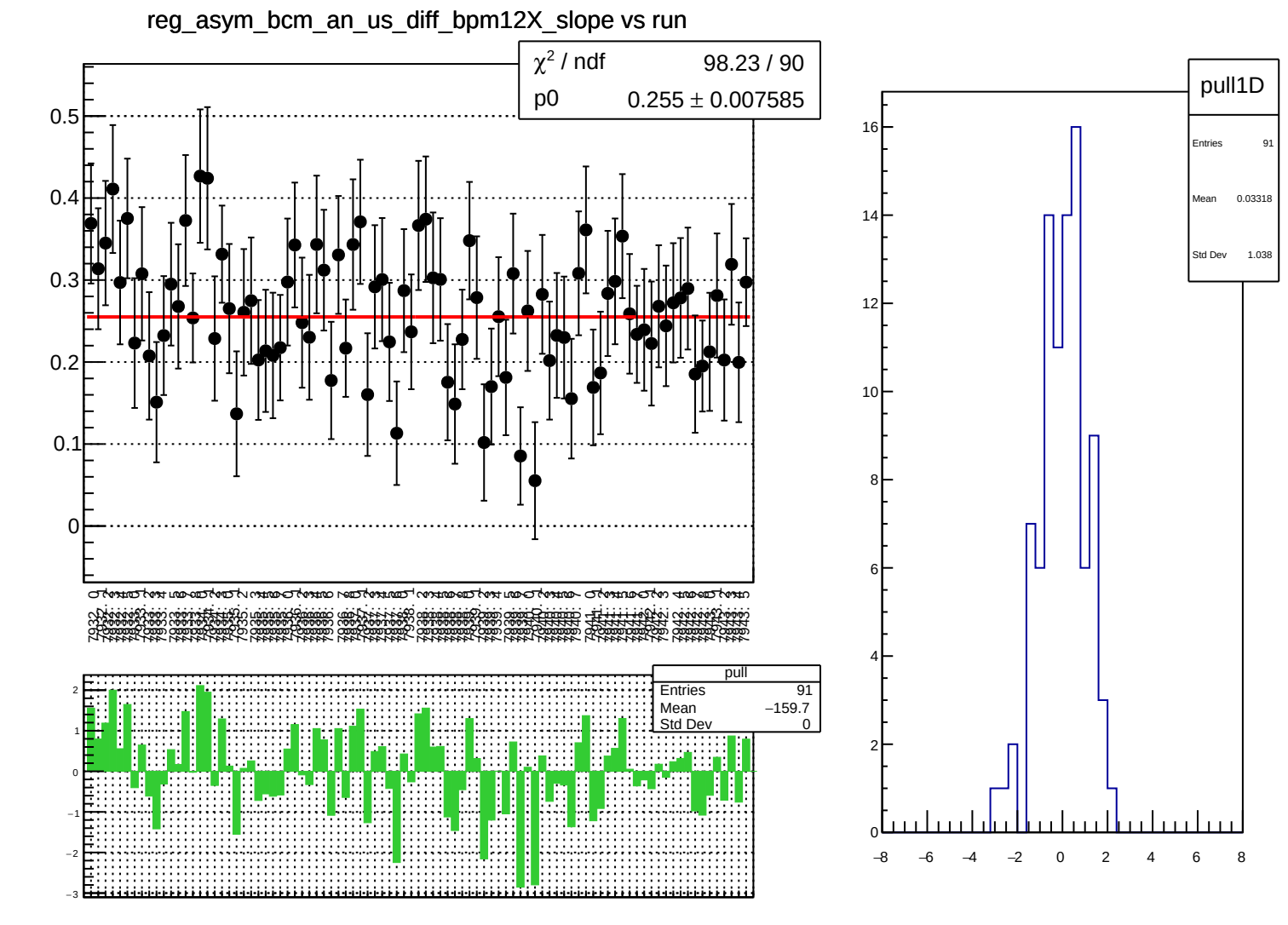

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 88.47 / 90
p0 −2.014 ± 0.2348
pull
Entries 91
Mean −416.9
Std Dev 0

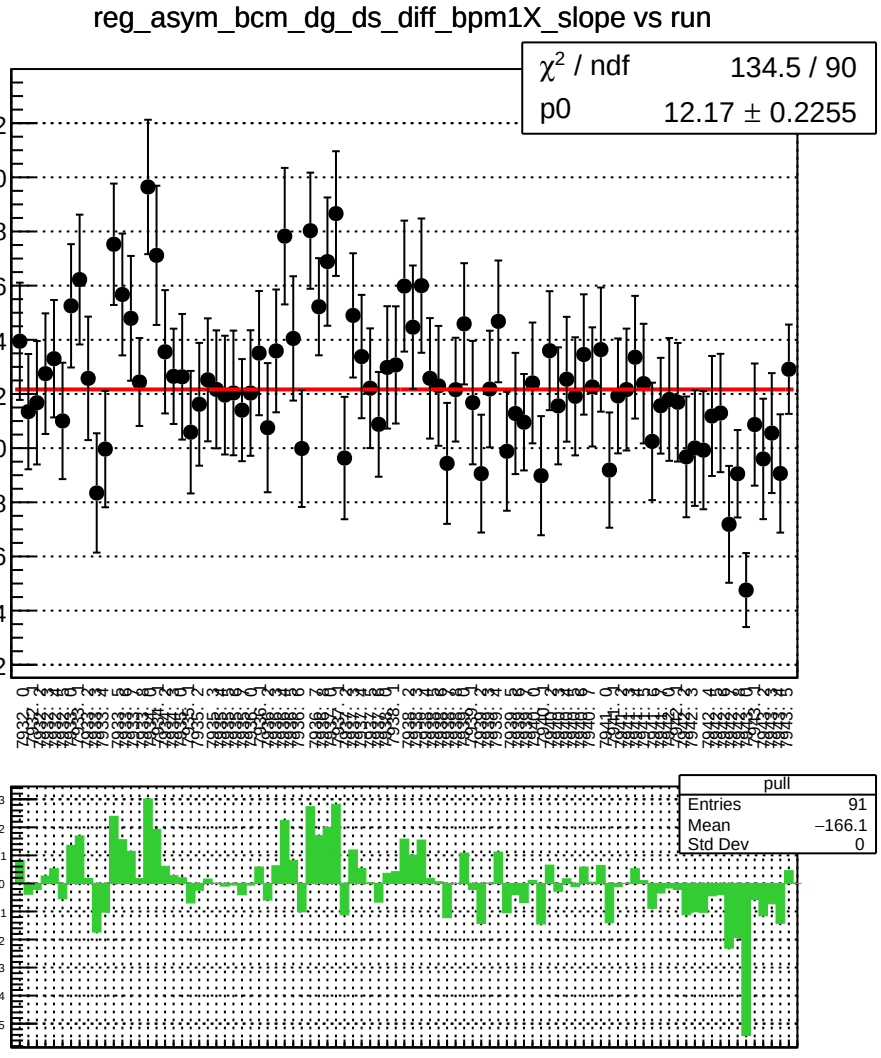

pull1D
Entries 91
Mean 0.002367
Std Dev 0.986

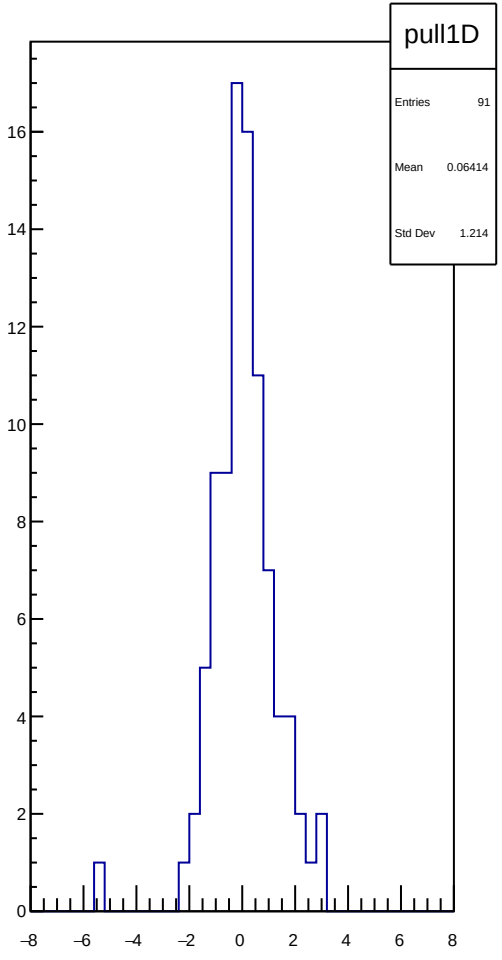

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 141.7 / 90
p0 −10.92 ± 0.2026
pull
Entries 91
Mean −150.2
Std Dev 0
pull1D
Entries 91
Mean −0.06795
Std Dev 1.246

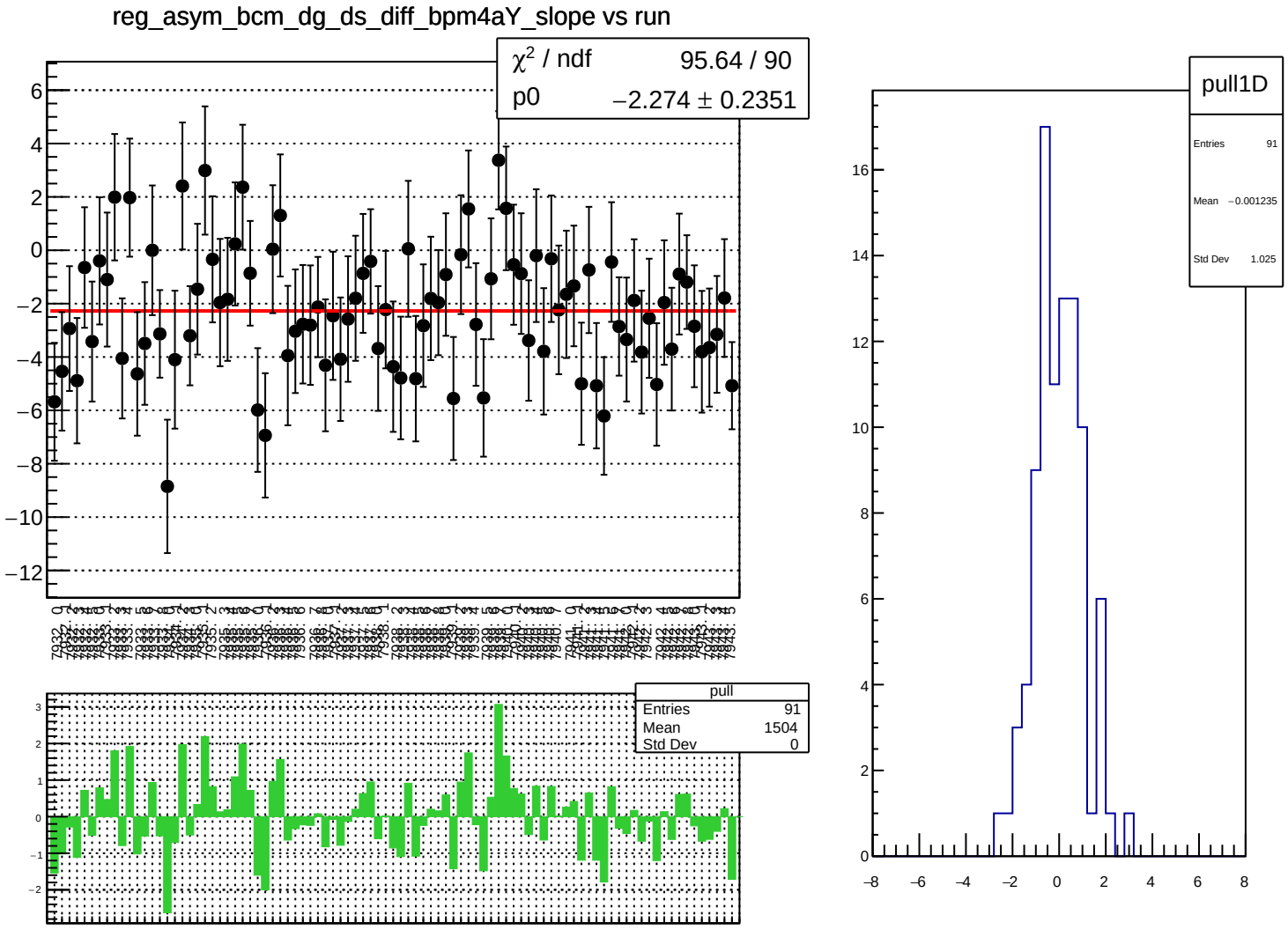

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 88.04 / 90
p0 1.396 ± 0.2707
pull
Entries 91
Mean −211.9
Std Dev 0

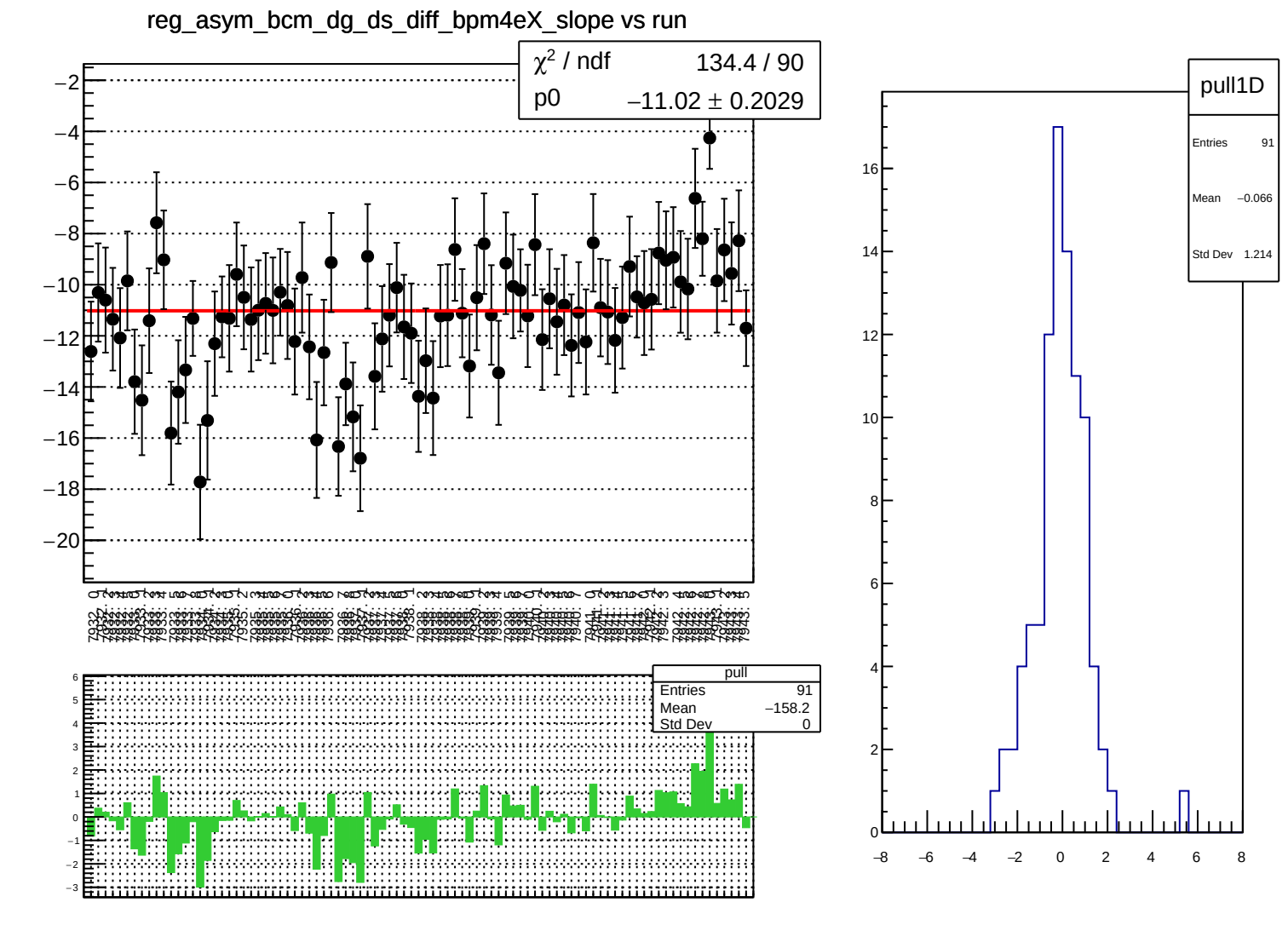

pull1D
Entries 91
Mean −0.001928
Std Dev 0.9836

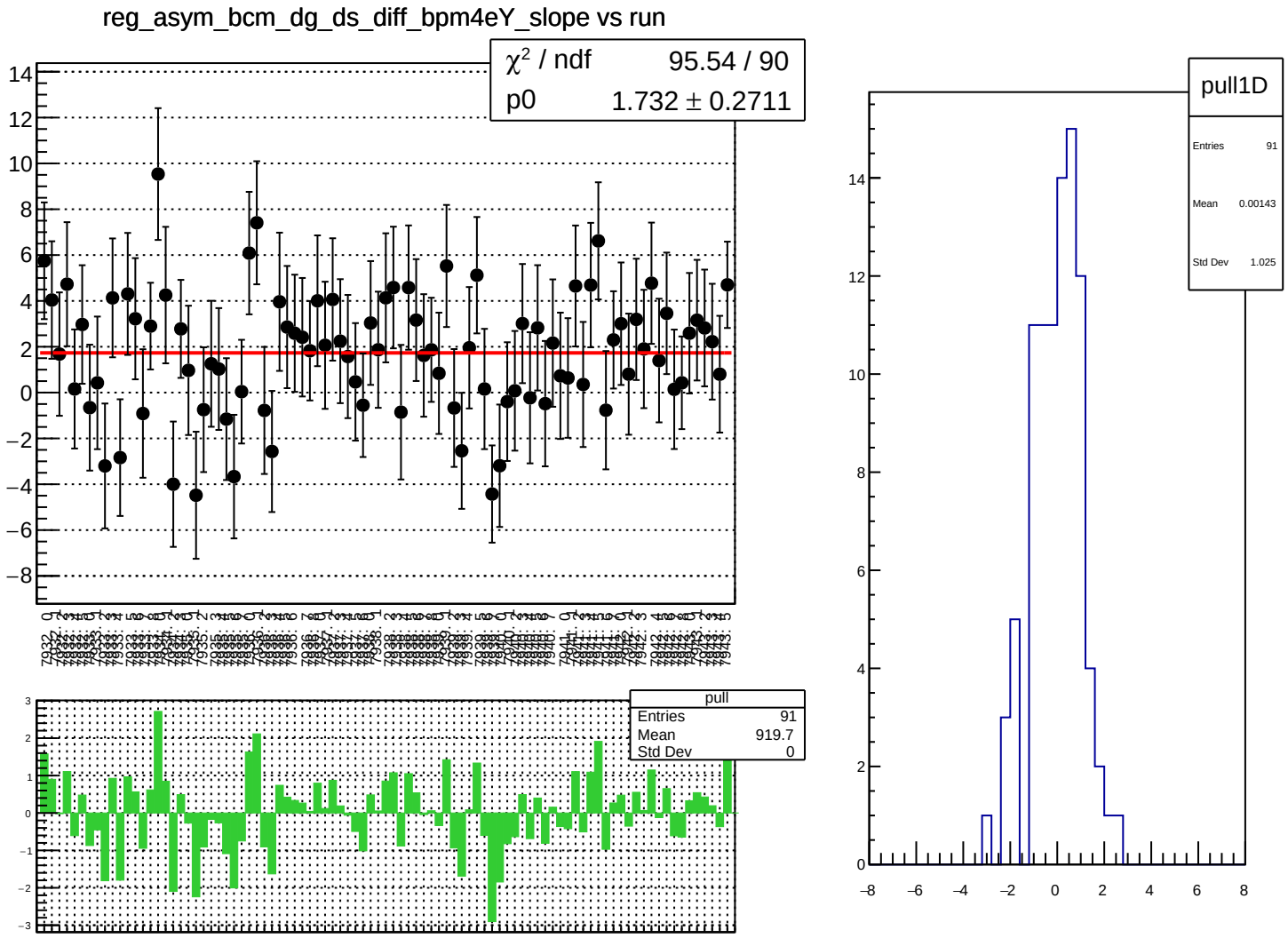

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 98.23 / 90
p0 0.255 ± 0.007585
pull
Entries 91
Mean −159.7
Std Dev 0
pull1D
Entries 91
Mean 0.03318
Std Dev 1.038

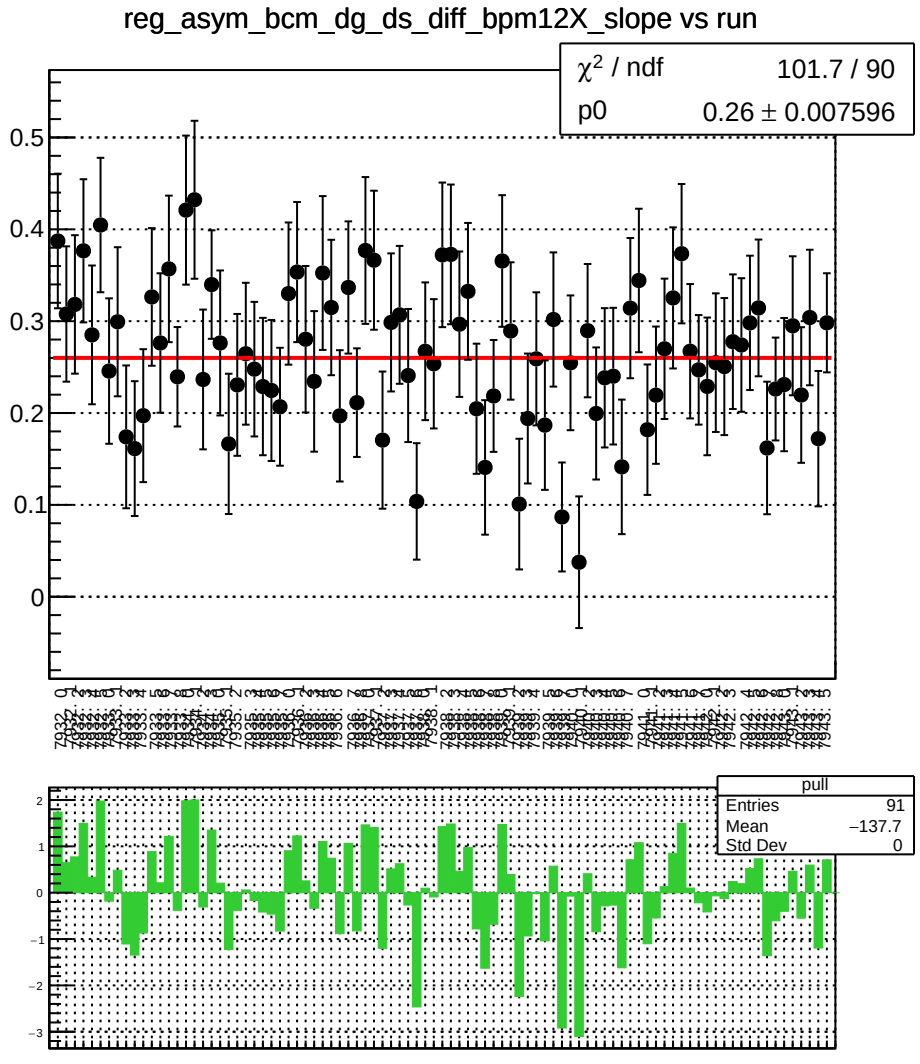

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 134.5 / 90
p0 12.17 ± 0.2255
pull
Entries 91
Mean −166.1
Std Dev 0

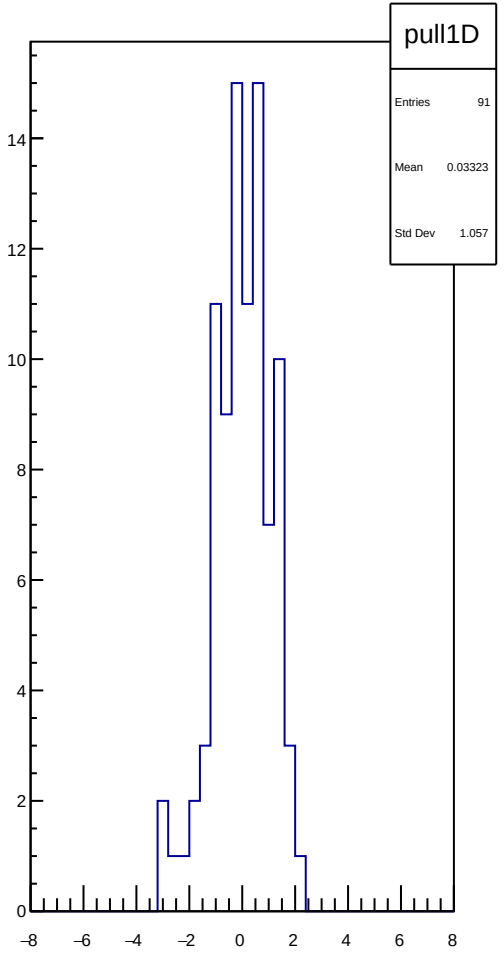

pull1D
Entries 91
Mean 0.06414
Std Dev 1.214

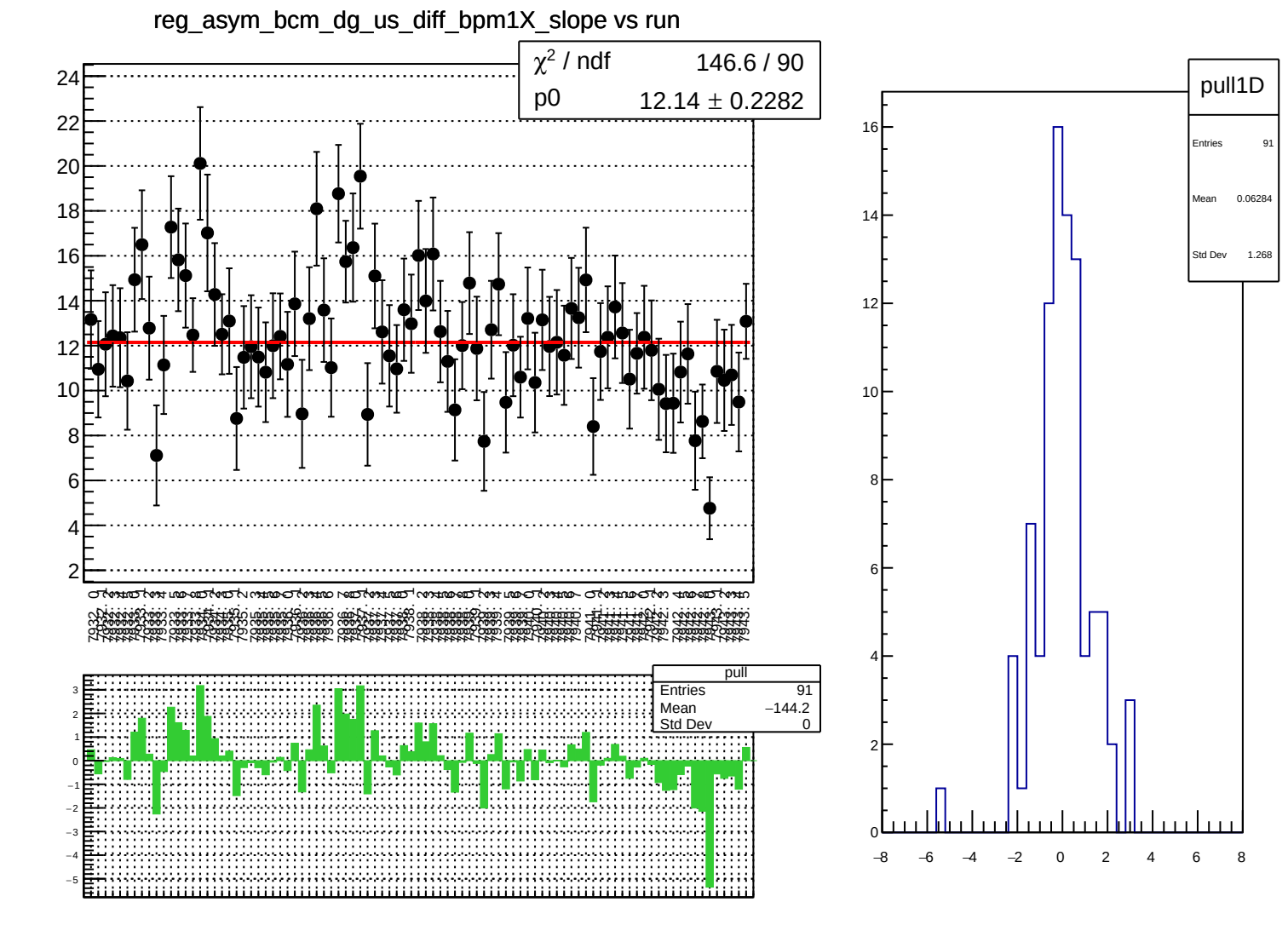

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 95.64 / 90
p0 −2.274 ± 0.2351
pull
Entries 91
Mean 1504
Std Dev 0
pull1D
Entries 91
Mean −0.001235
Std Dev 1.025

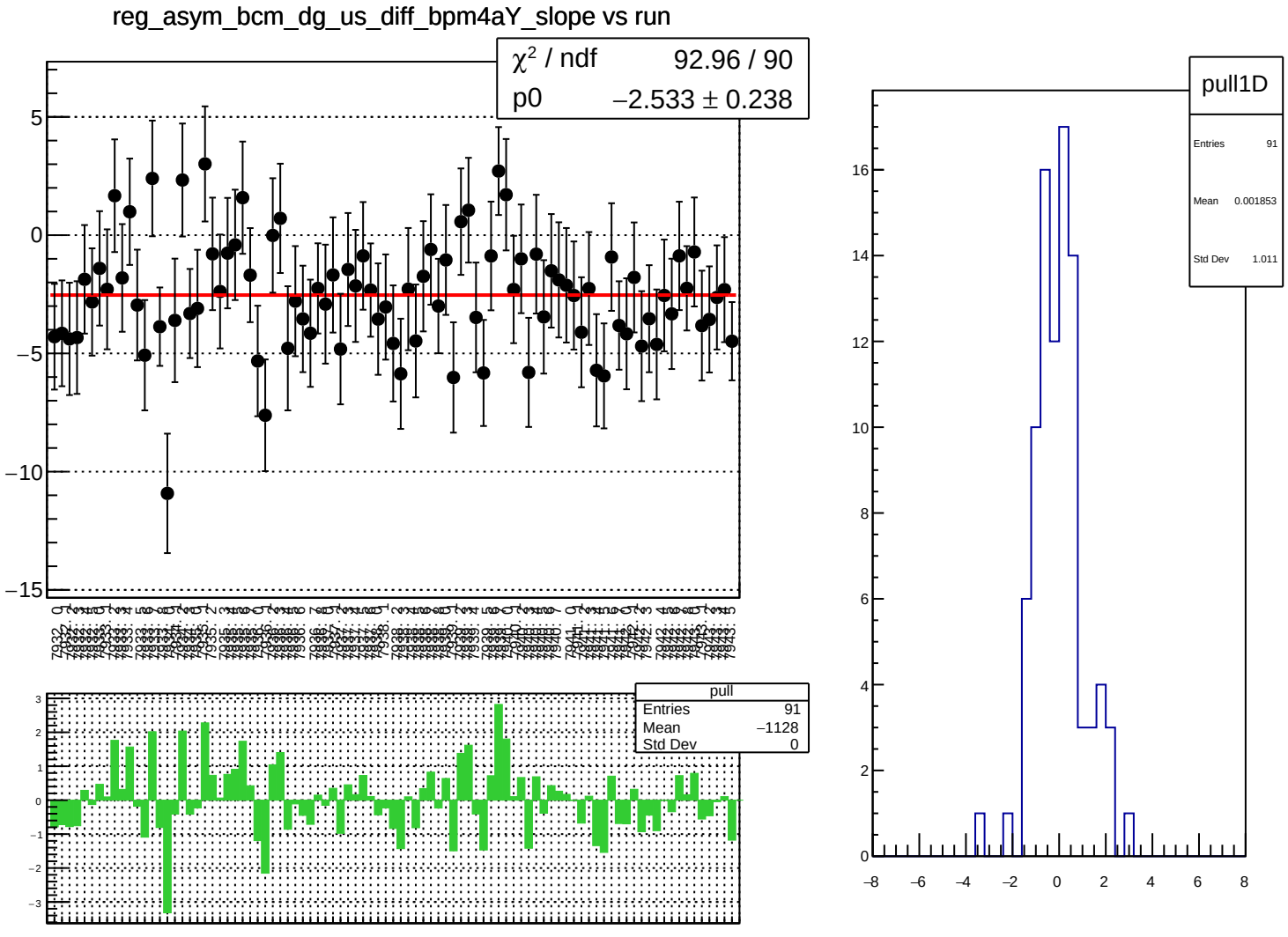

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 134.4 / 90
p0 −11.02 ± 0.2029
pull
Entries 91
Mean −158.2
Std Dev 0
pull1D
Entries 91
Mean −0.066
Std Dev 1.214

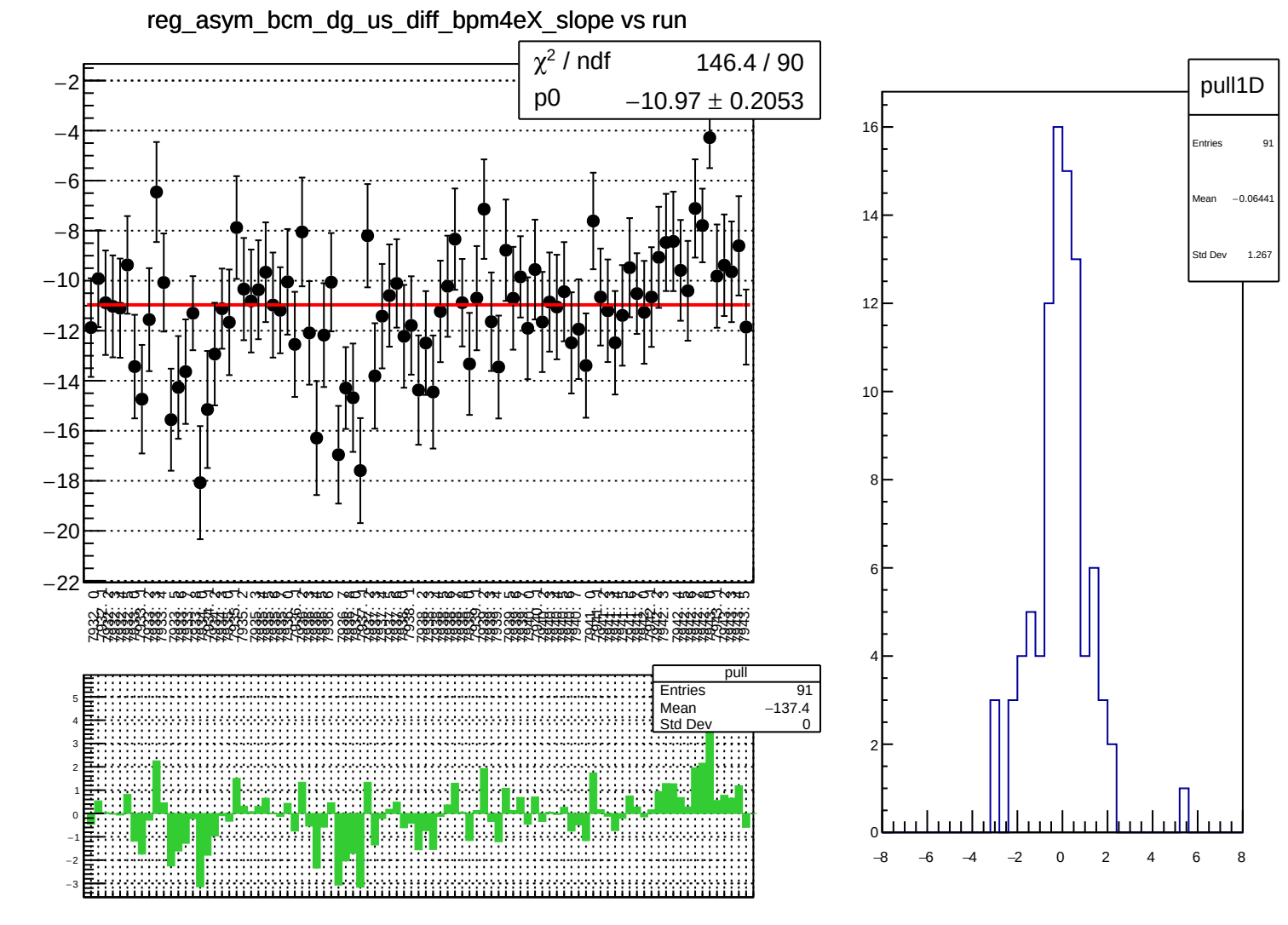

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 95.54 / 90
p0 1.732 ± 0.2711
pull
Entries 91
Mean 919.7
Std Dev 0
pull1D
Entries 91
Mean 0.00143
Std Dev 1.025

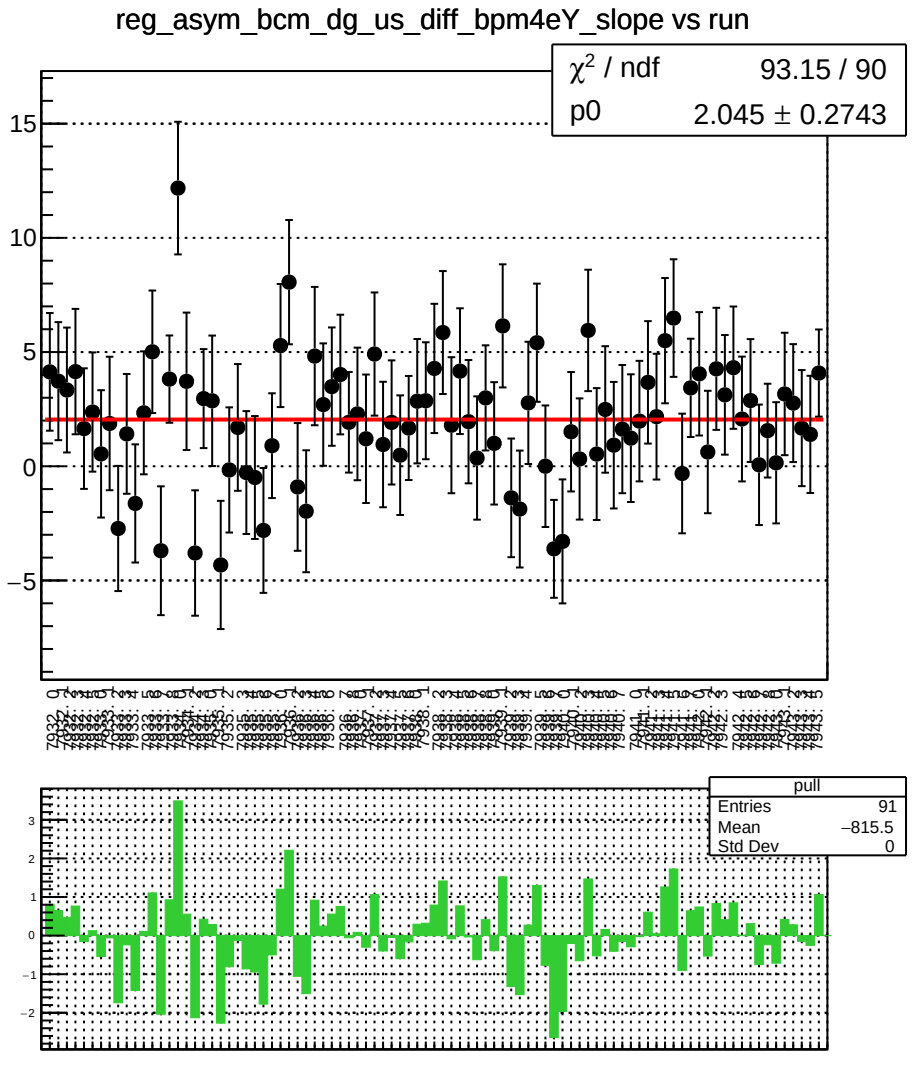

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 101.7 / 90
p0 0.26 ± 0.007596
pull
Entries 91
Mean −137.7
Std Dev 0

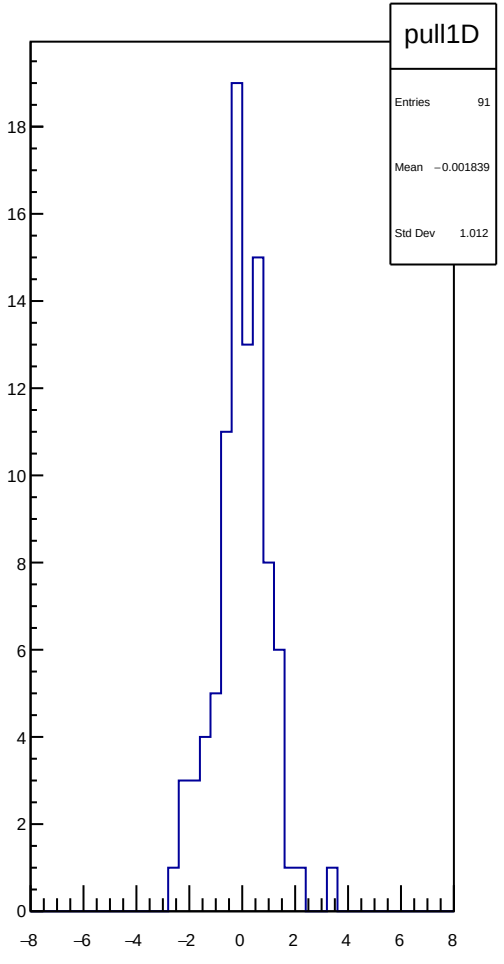

pull1D
Entries 91
Mean 0.03323
Std Dev 1.057

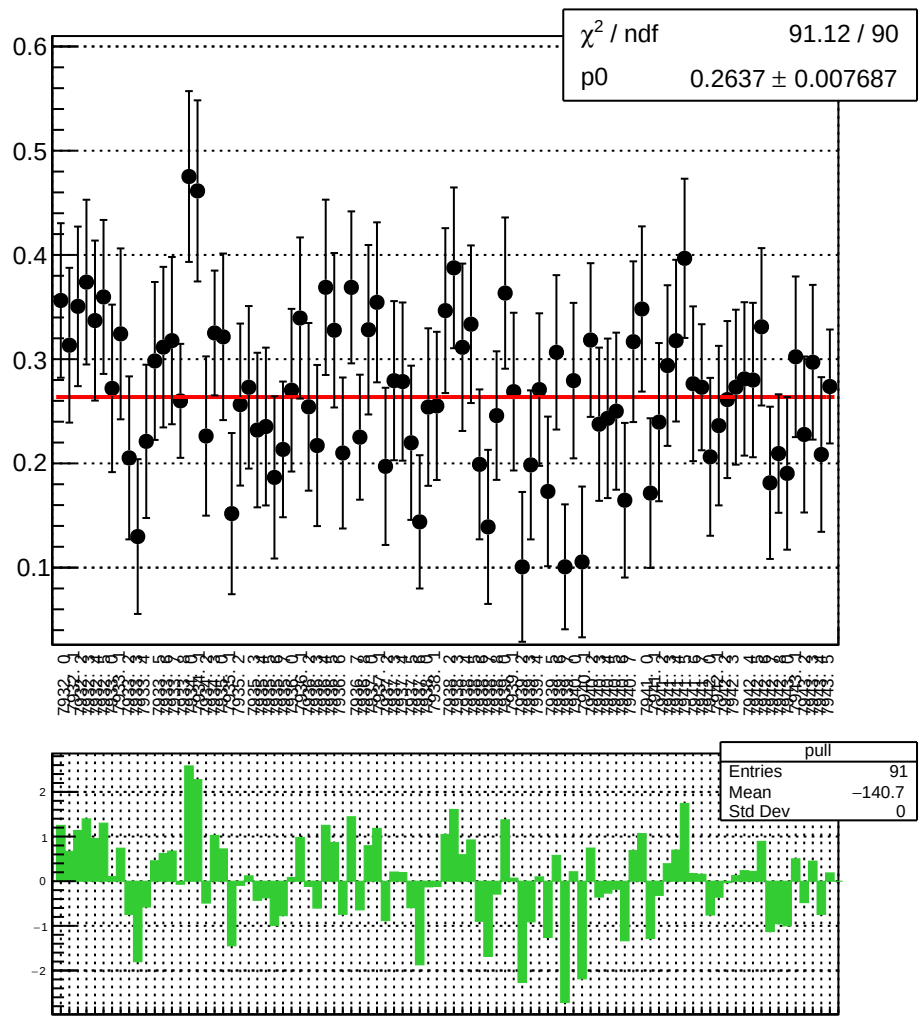

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 146.6 / 90
p0 12.14 ± 0.2282
pull
Entries 91
Mean −144.2
Std Dev 0
pull1D
Entries 91
Mean 0.06284
Std Dev 1.268

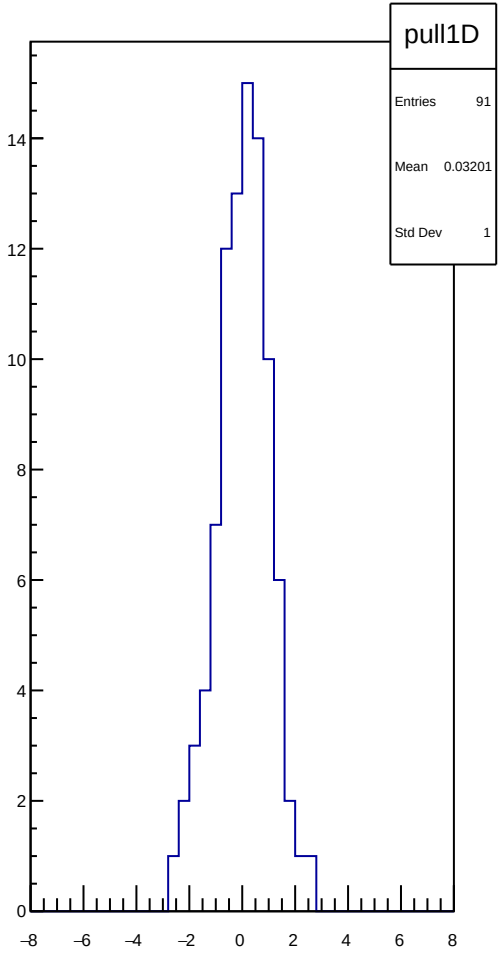

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 92.96 / 90
p0 −2.533 ± 0.238
pull
Entries 91
Mean −1128
Std Dev 0
pull1D
Entries 91
Mean 0.001853
Std Dev 1.011

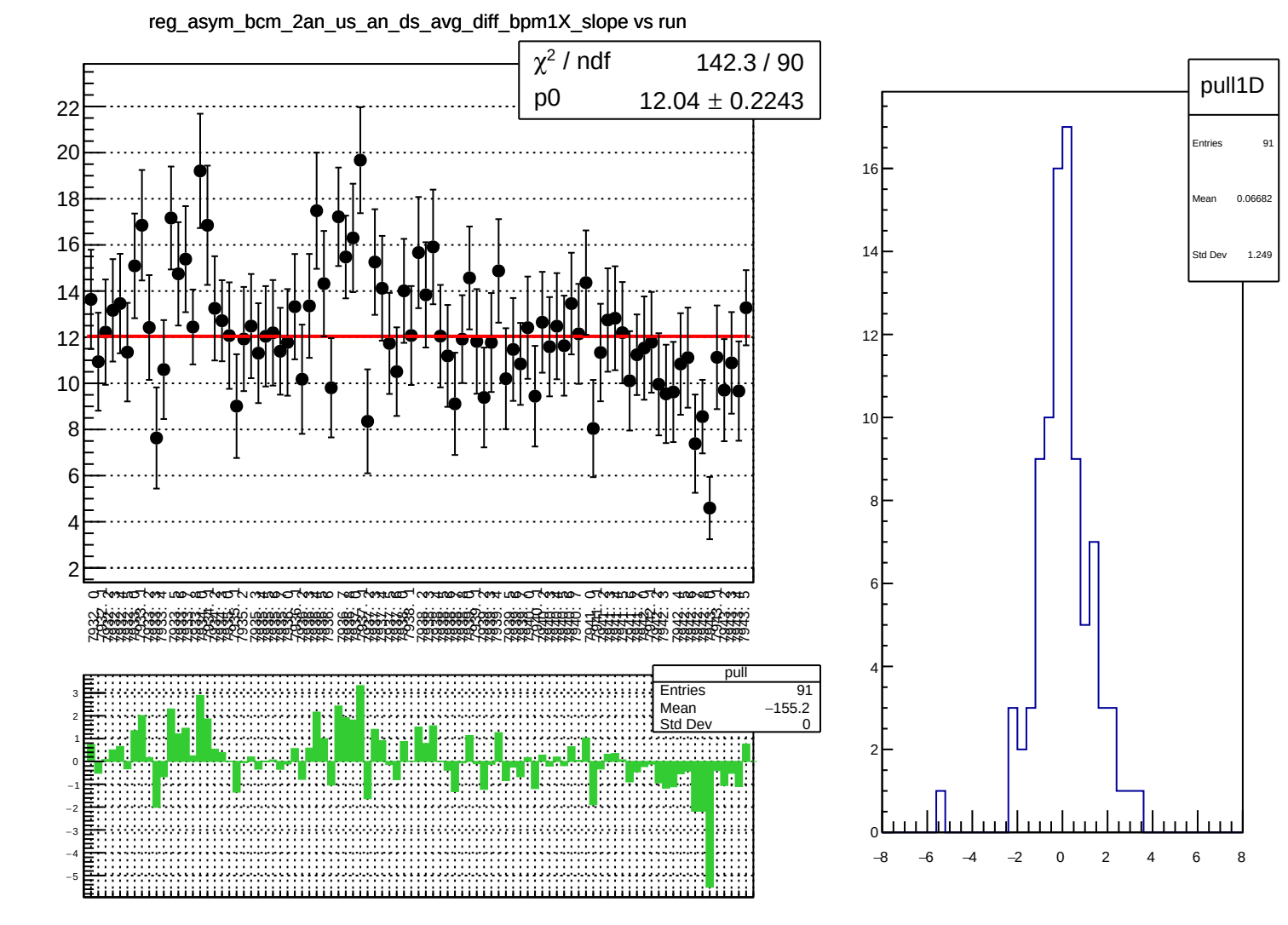

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 146.4 / 90
p0 −10.97 ± 0.2053
pull
Entries 91
Mean −137.4
Std Dev 0
pull1D
Entries 91
Mean −0.06441
Std Dev 1.267

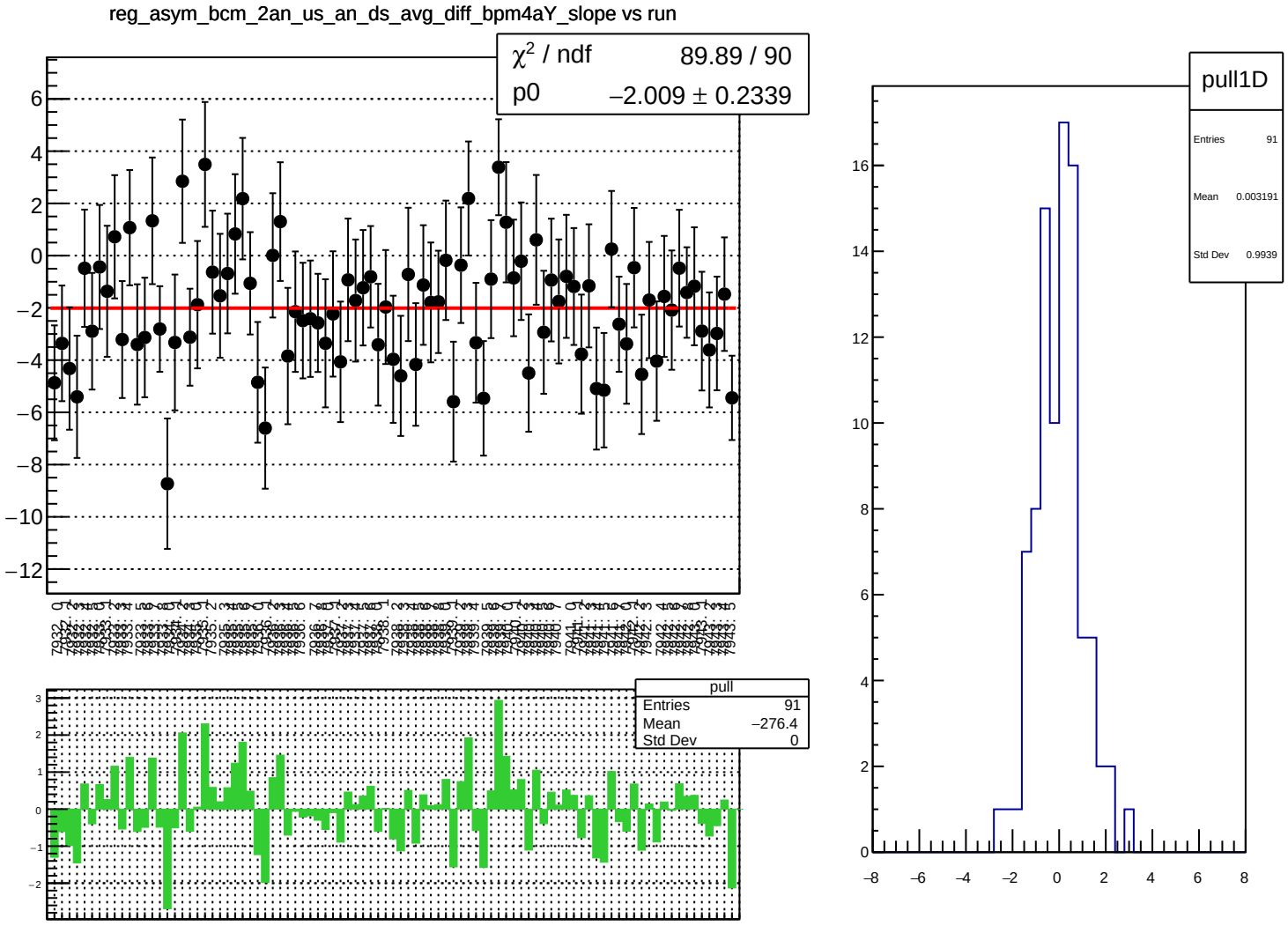

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 93.15 / 90
p0 2.045 ± 0.2743
pull
Entries 91
Mean −815.5
Std Dev 0

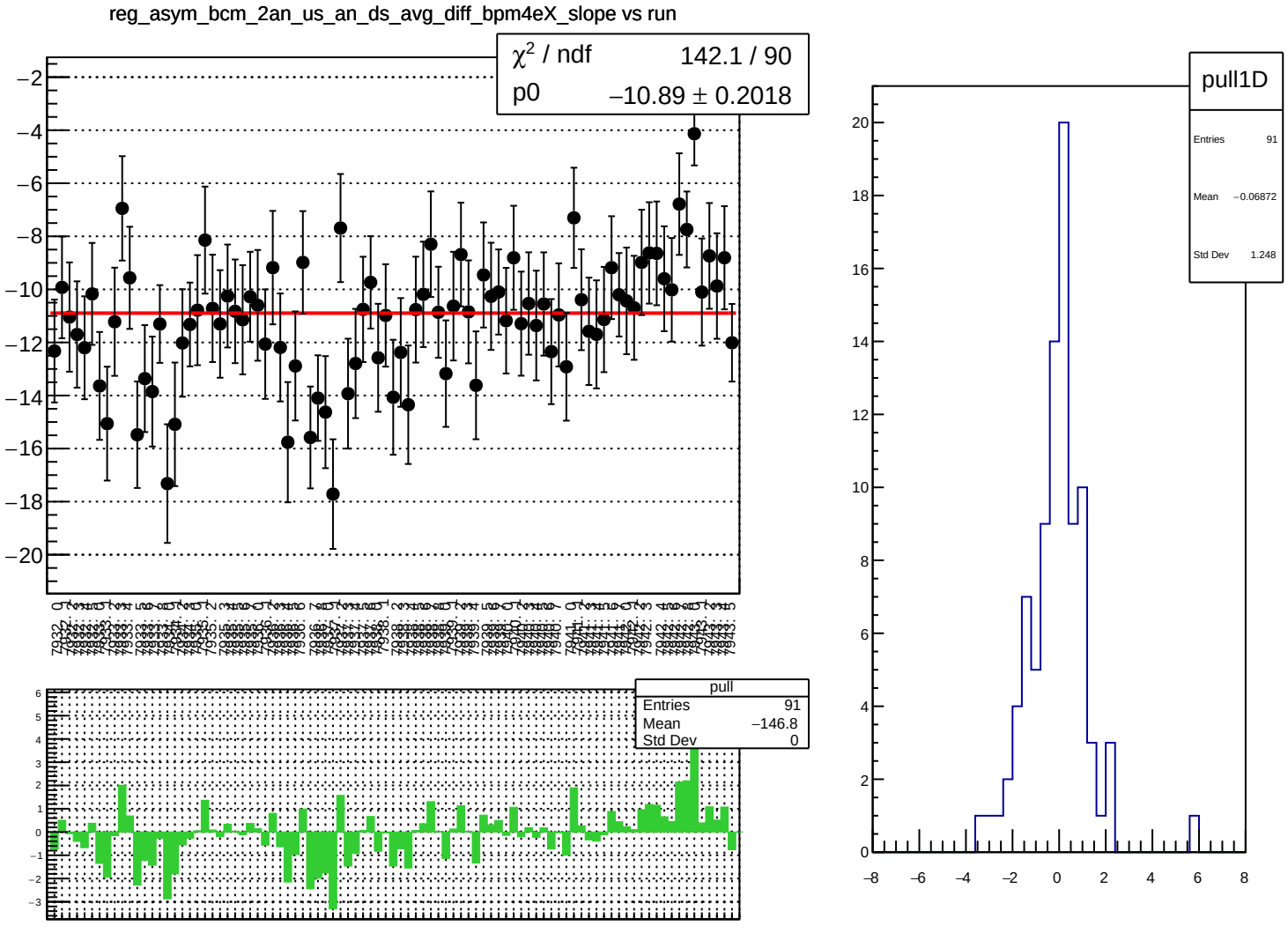

pull1D
Entries 91
Mean −0.001839
Std Dev 1.012

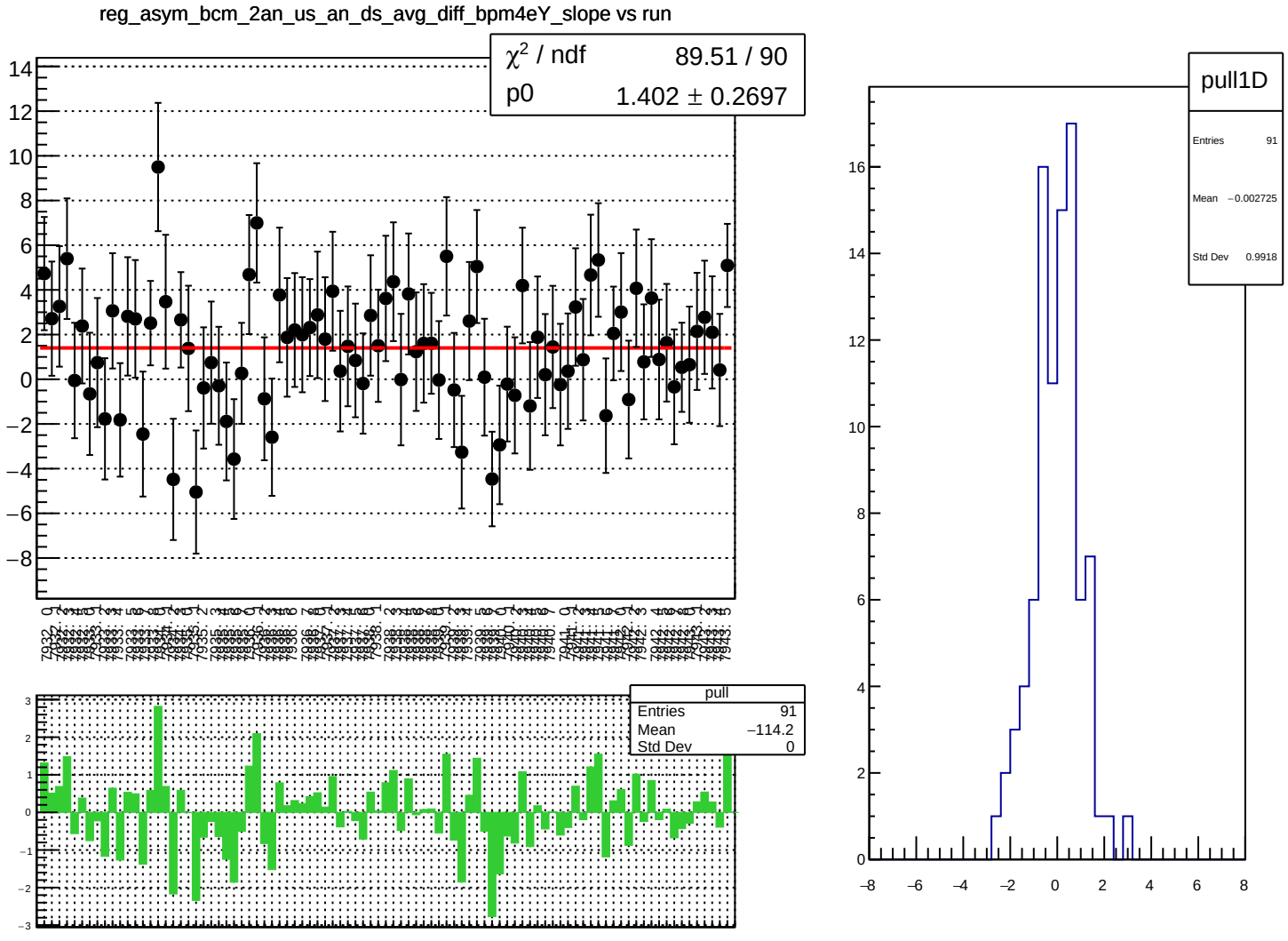

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 91.12 / 90
p0 0.2637 ± 0.007687
pull
Entries 91
Mean −140.7
Std Dev 0

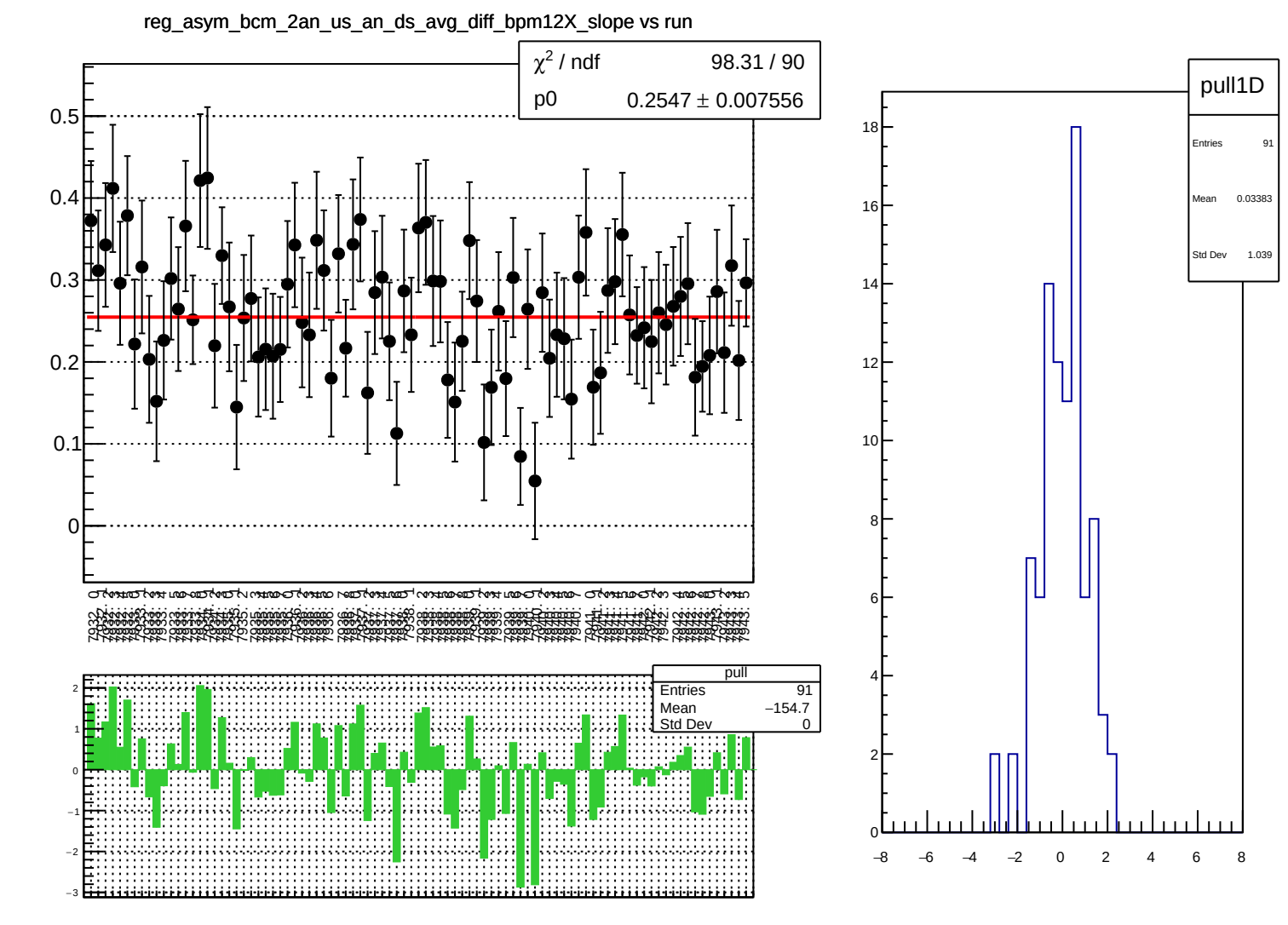

pull1D
Entries 91
Mean 0.03201
Std Dev 1

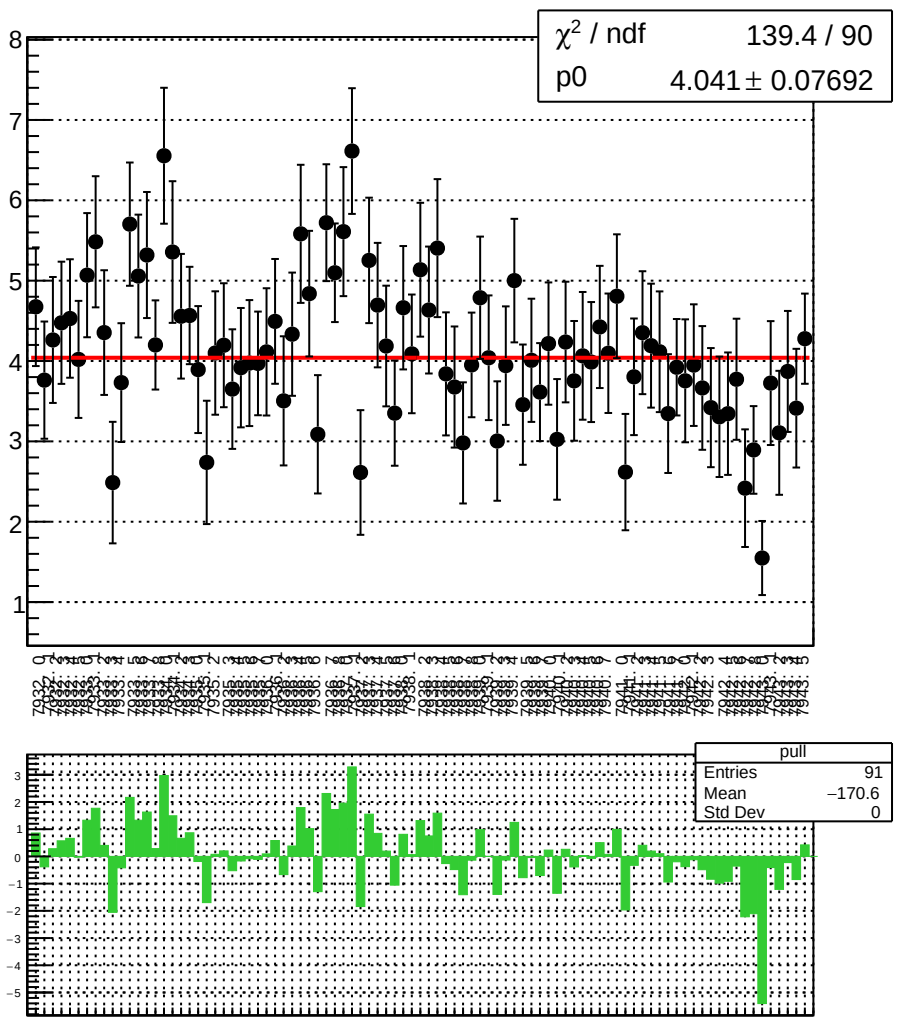

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 142.3 / 90
p0 12.04 ± 0.2243
pull
Entries 91
Mean −155.2
Std Dev 0
pull1D
Entries 91
Mean 0.06682
Std Dev 1.249

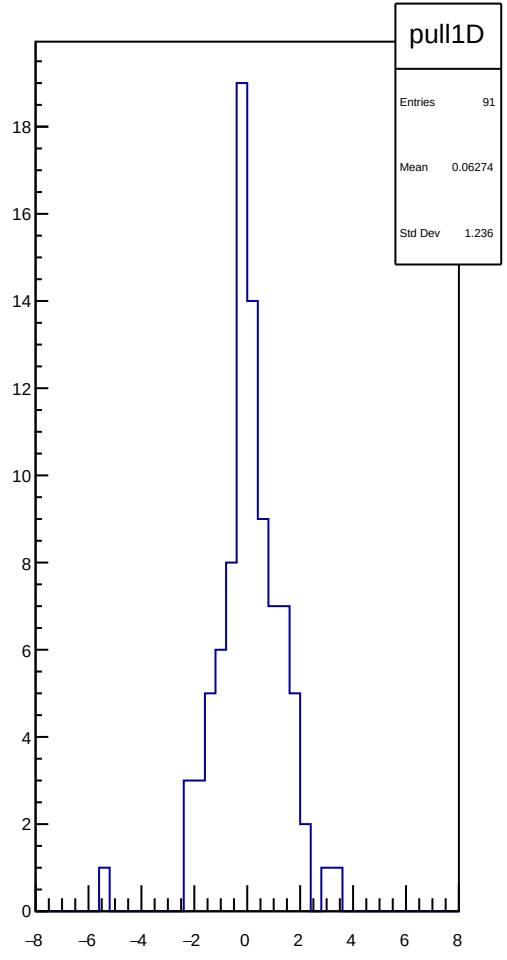

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.89 / 90
p0 −2.009 ± 0.2339
pull
Entries 91
Mean −276.4
Std Dev 0
pull1D
Entries 91
Mean 0.003191
Std Dev 0.9939

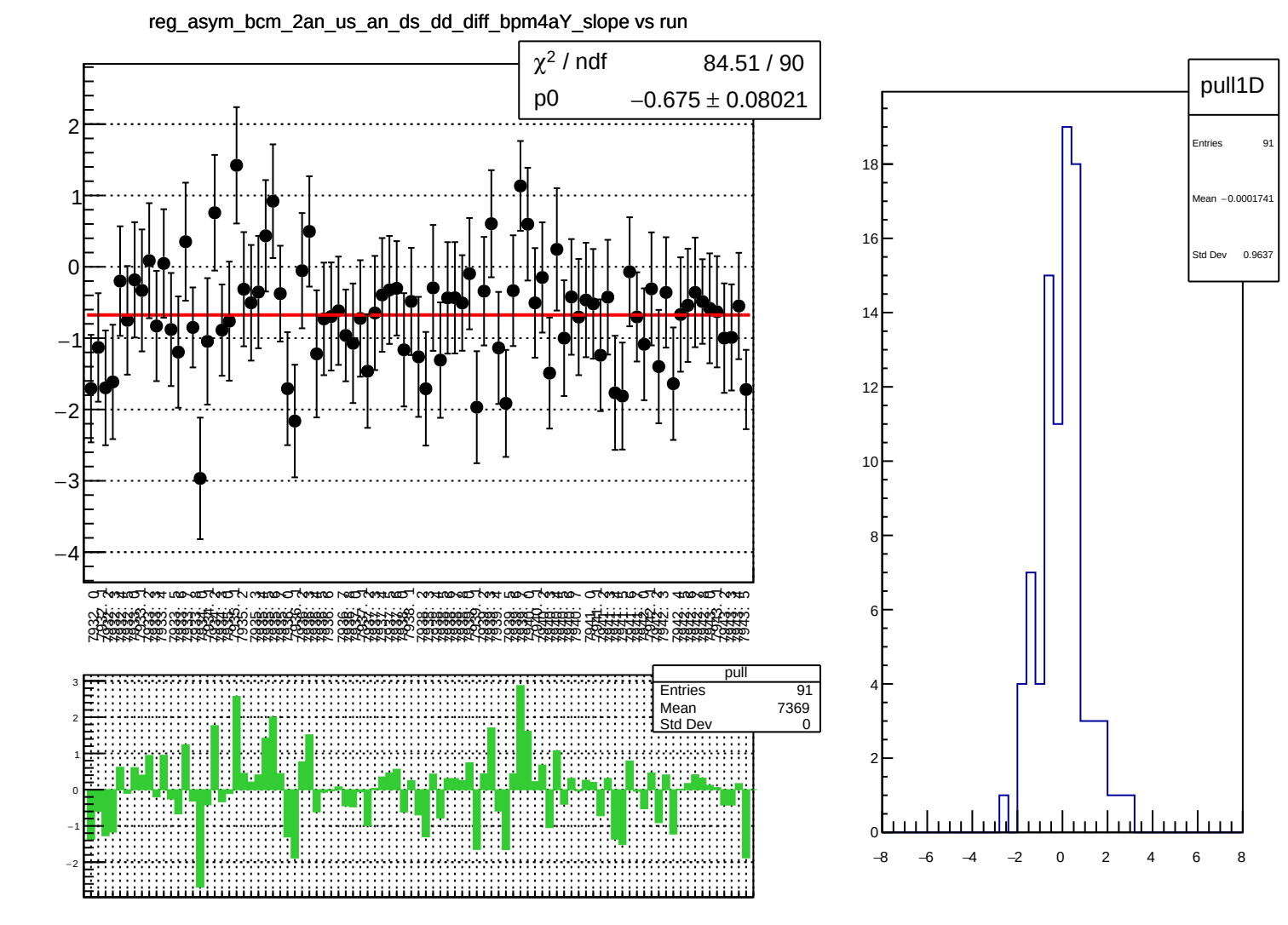

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 142.1 / 90
p0 −10.89 ± 0.2018
pull
Entries 91
Mean −146.8
Std Dev 0
pull1D
Entries 91
Mean −0.06872
Std Dev 1.248

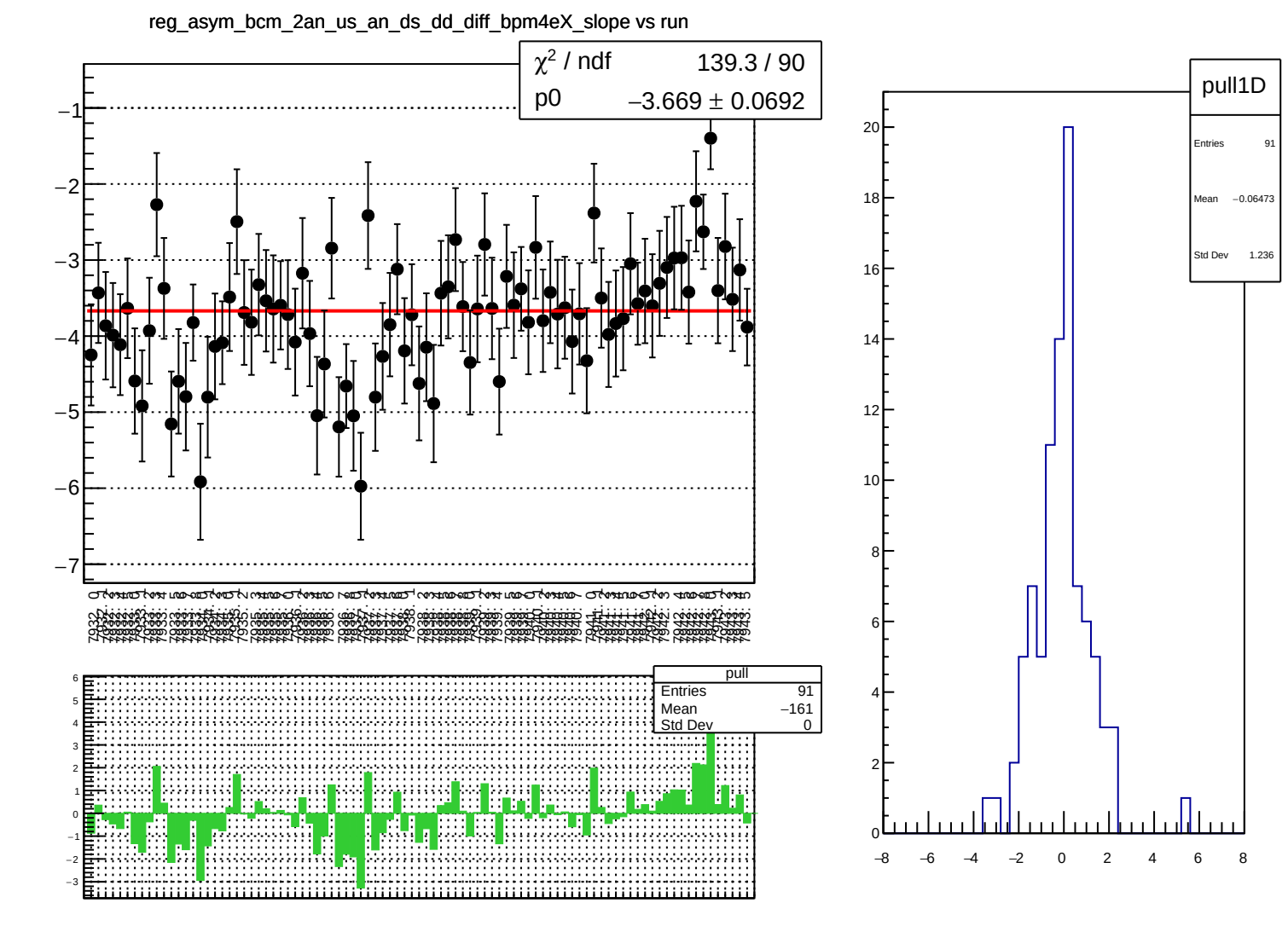

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.51 / 90
p0 1.402 ± 0.2697
pull
Entries 91
Mean −114.2
Std Dev 0
pull1D
Entries 91
Mean −0.002725
Std Dev 0.9918

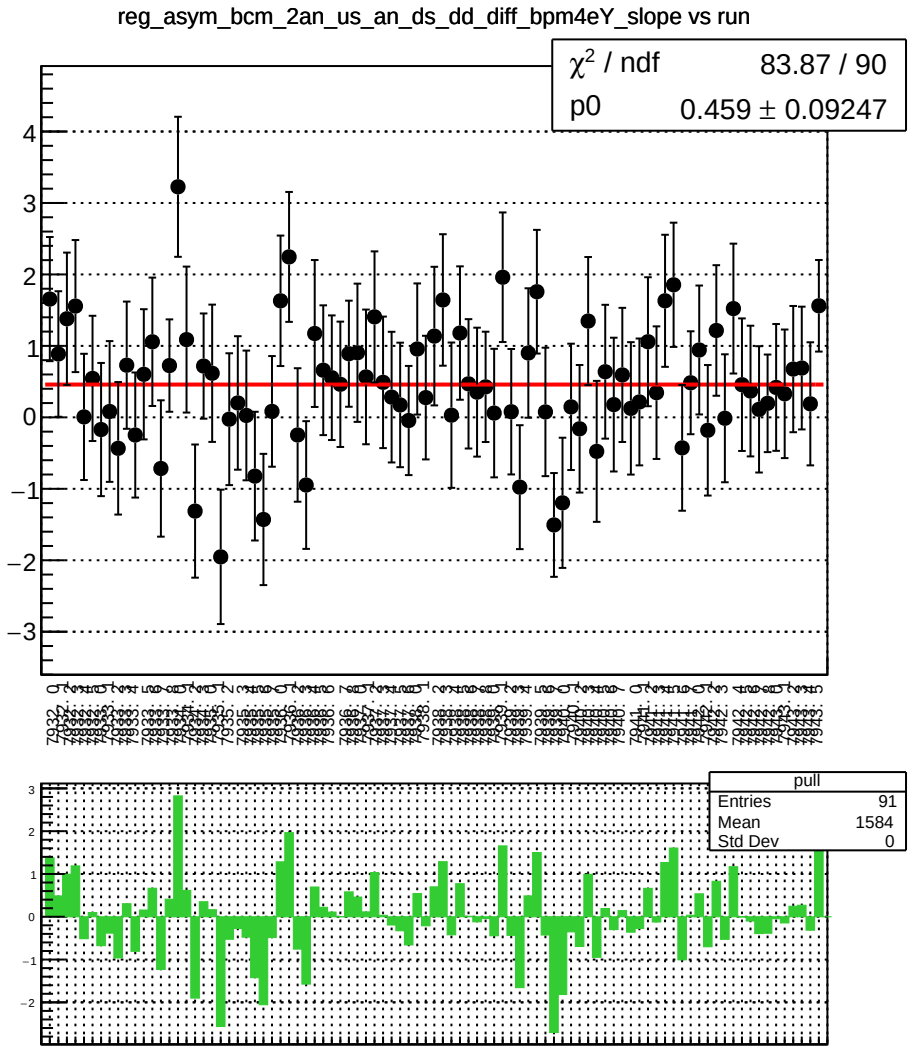

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 98.31 / 90
p0 0.2547 ± 0.007556
pull
Entries 91
Mean −154.7
Std Dev 0
pull1D
Entries 91
Mean 0.03383
Std Dev 1.039

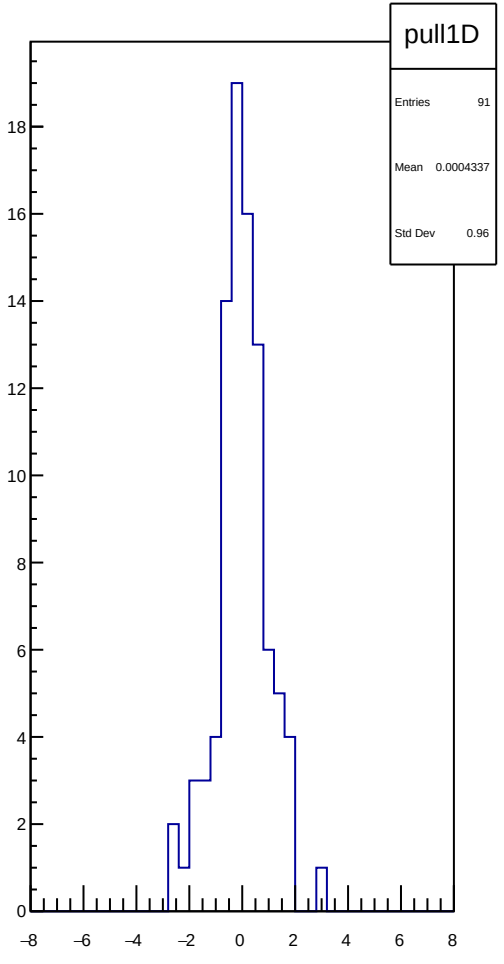

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 139.4 / 90
p0 4.041 ± 0.07692
pull
Entries 91
Mean −170.6
Std Dev 0

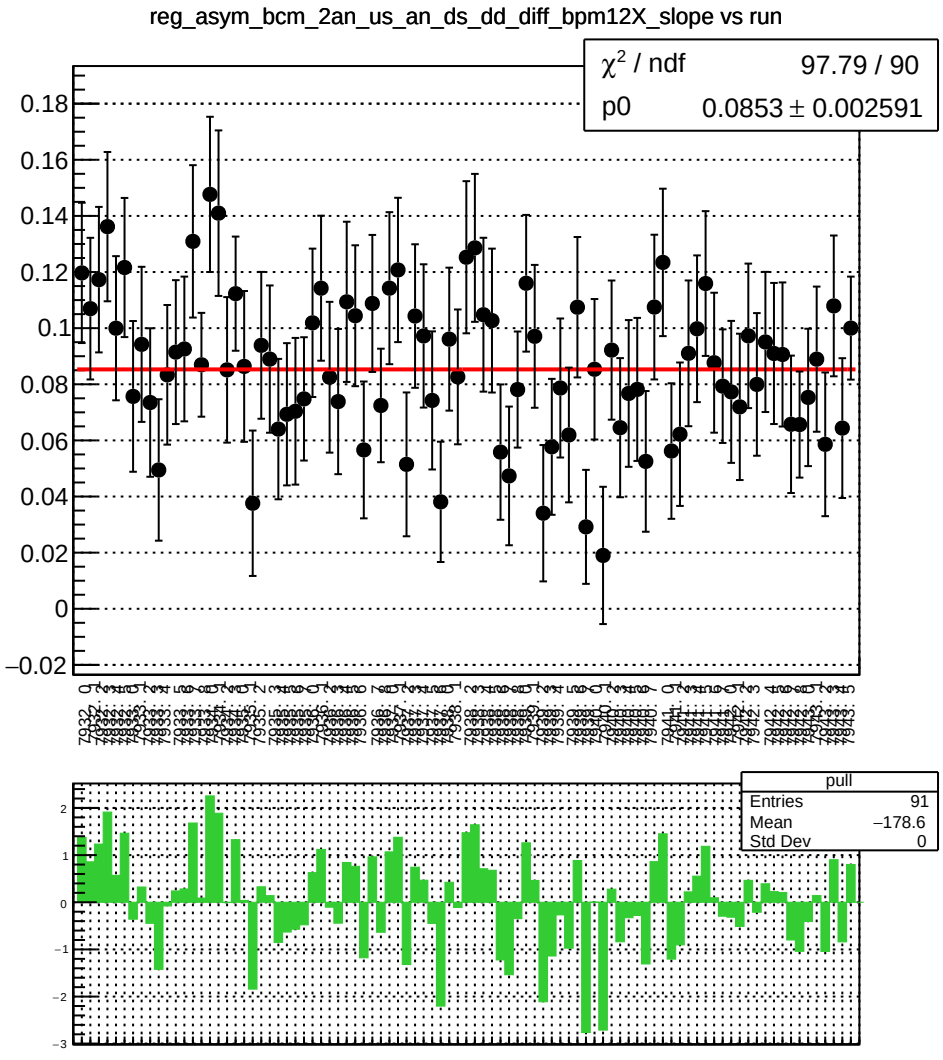

pull1D
Entries 91
Mean 0.06274
Std Dev 1.236

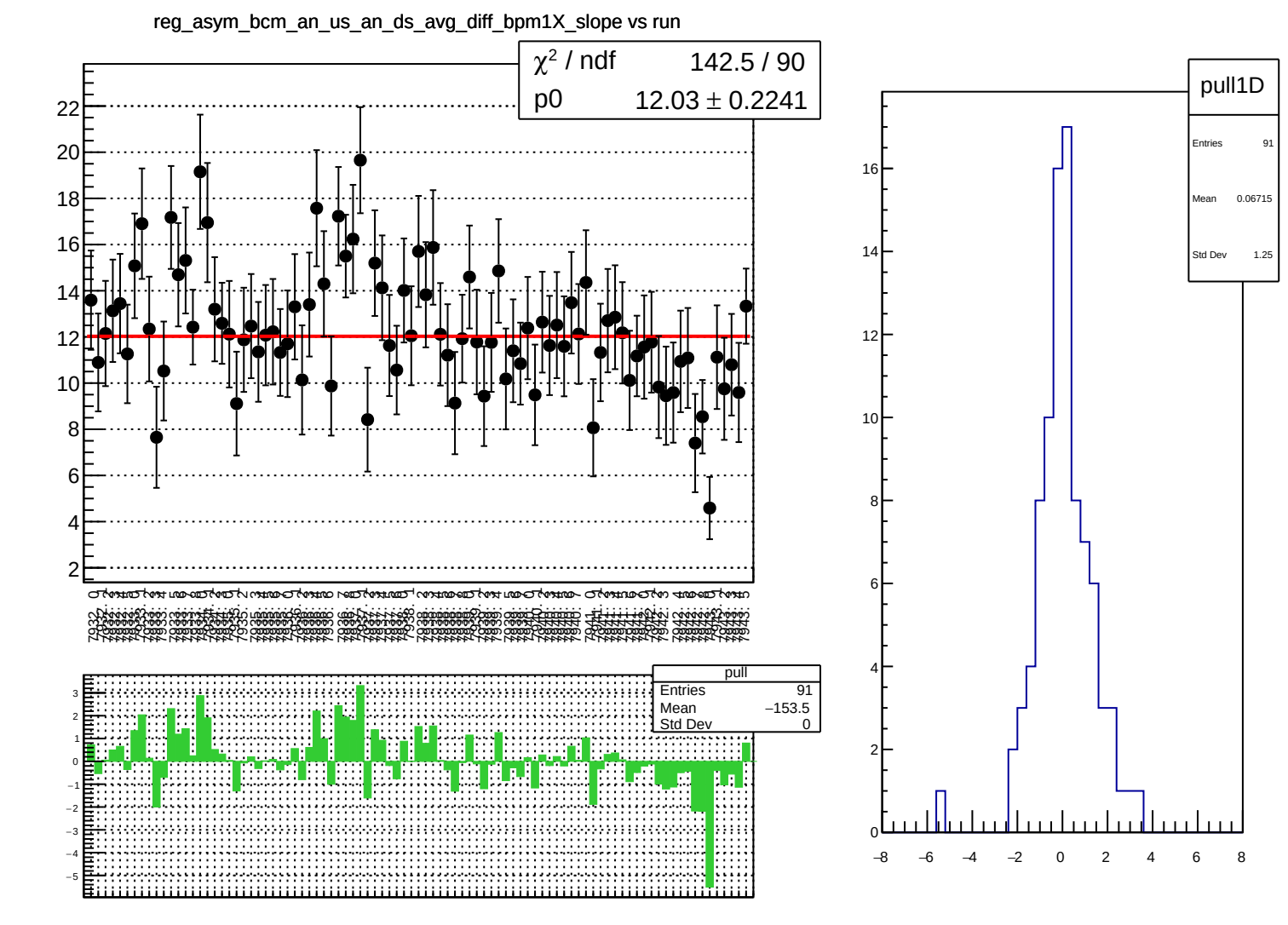

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.51 / 90
p0 −0.675 ± 0.08021
pull
Entries 91
Mean 7369
Std Dev 0
pull1D
Entries 91
Mean −0.0001741
Std Dev 0.9637

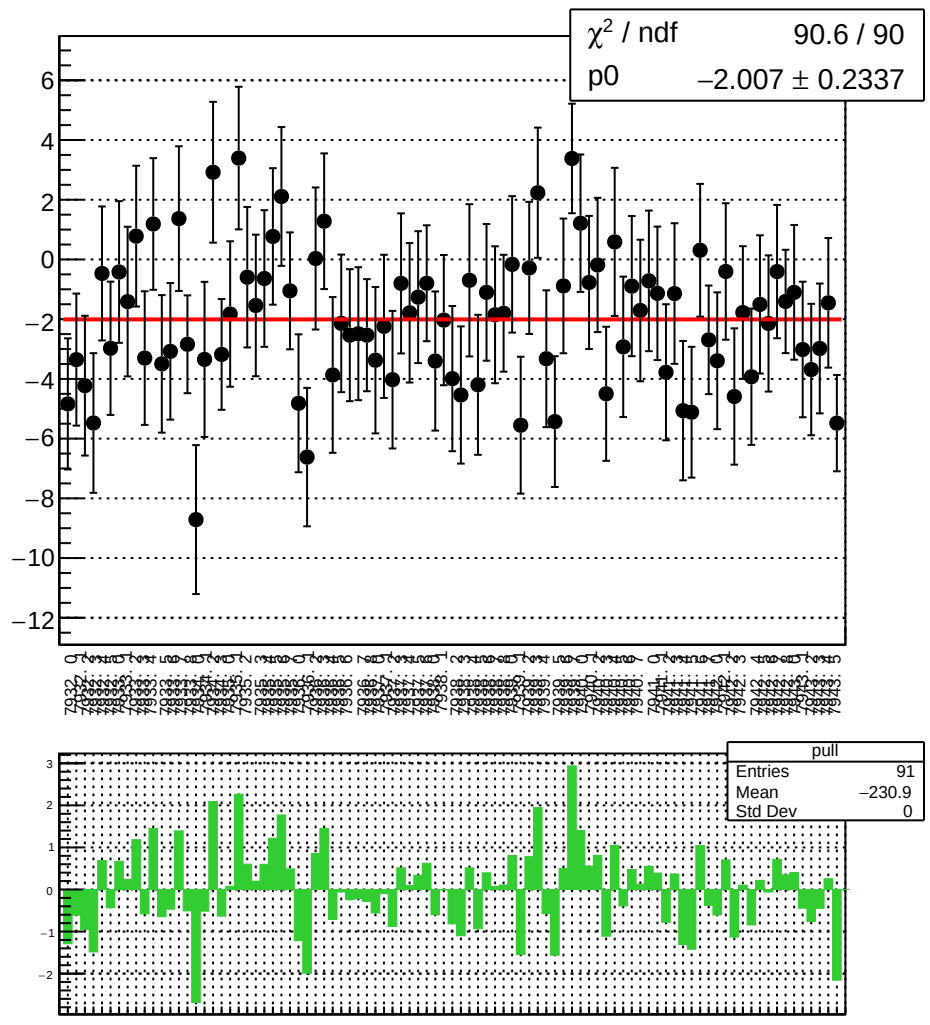

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 139.3 / 90
p0 −3.669 ± 0.0692
pull
Entries 91
Mean −161
Std Dev 0
pull1D
Entries 91
Mean −0.06473
Std Dev 1.236

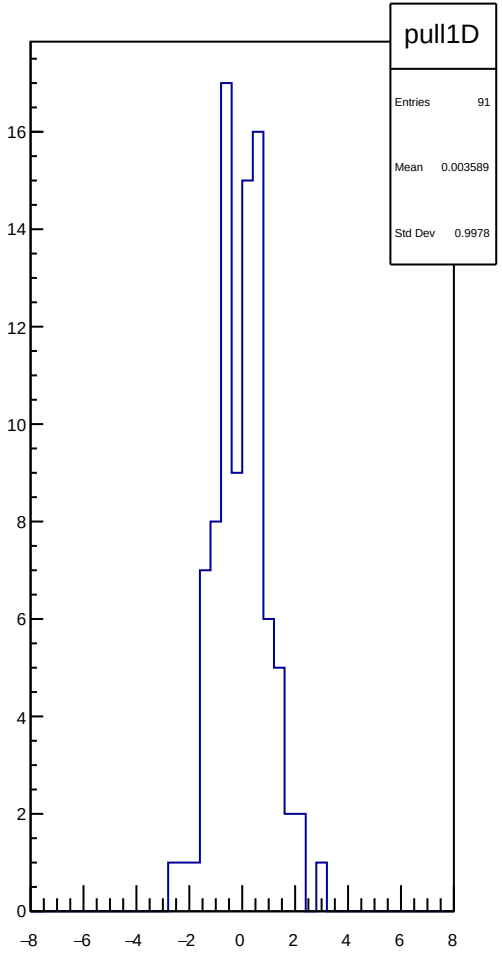

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.87 / 90
p0 0.459 ± 0.09247
pull
Entries 91
Mean 1584
Std Dev 0

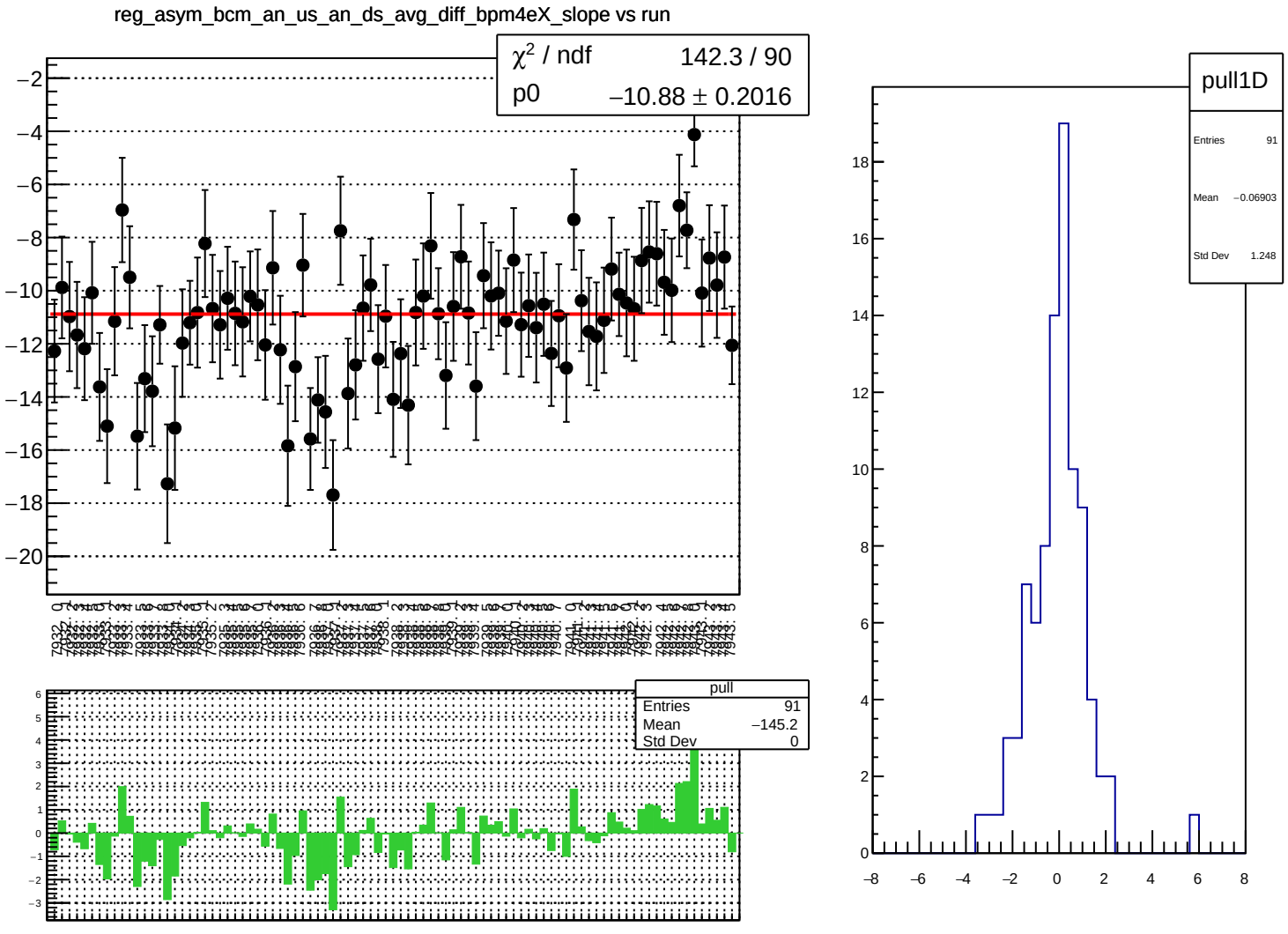

pull1D
Entries 91
Mean 0.0004337
Std Dev 0.96

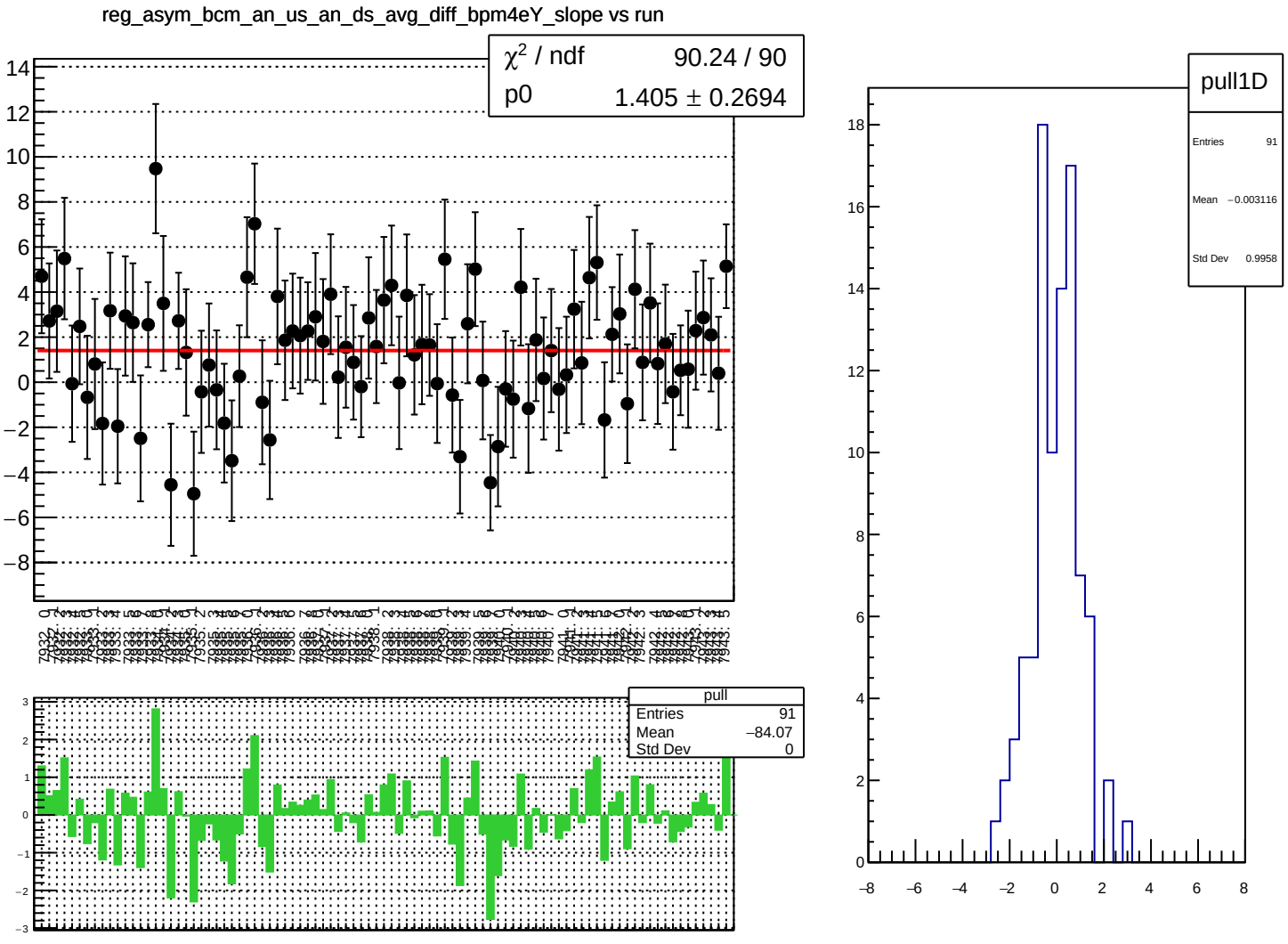

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 97.79 / 90
p0 0.0853 ± 0.002591
pull
Entries 91
Mean −178.6
Std Dev 0
pull1D
Entries 91
Mean 0.03052
Std Dev 1.036

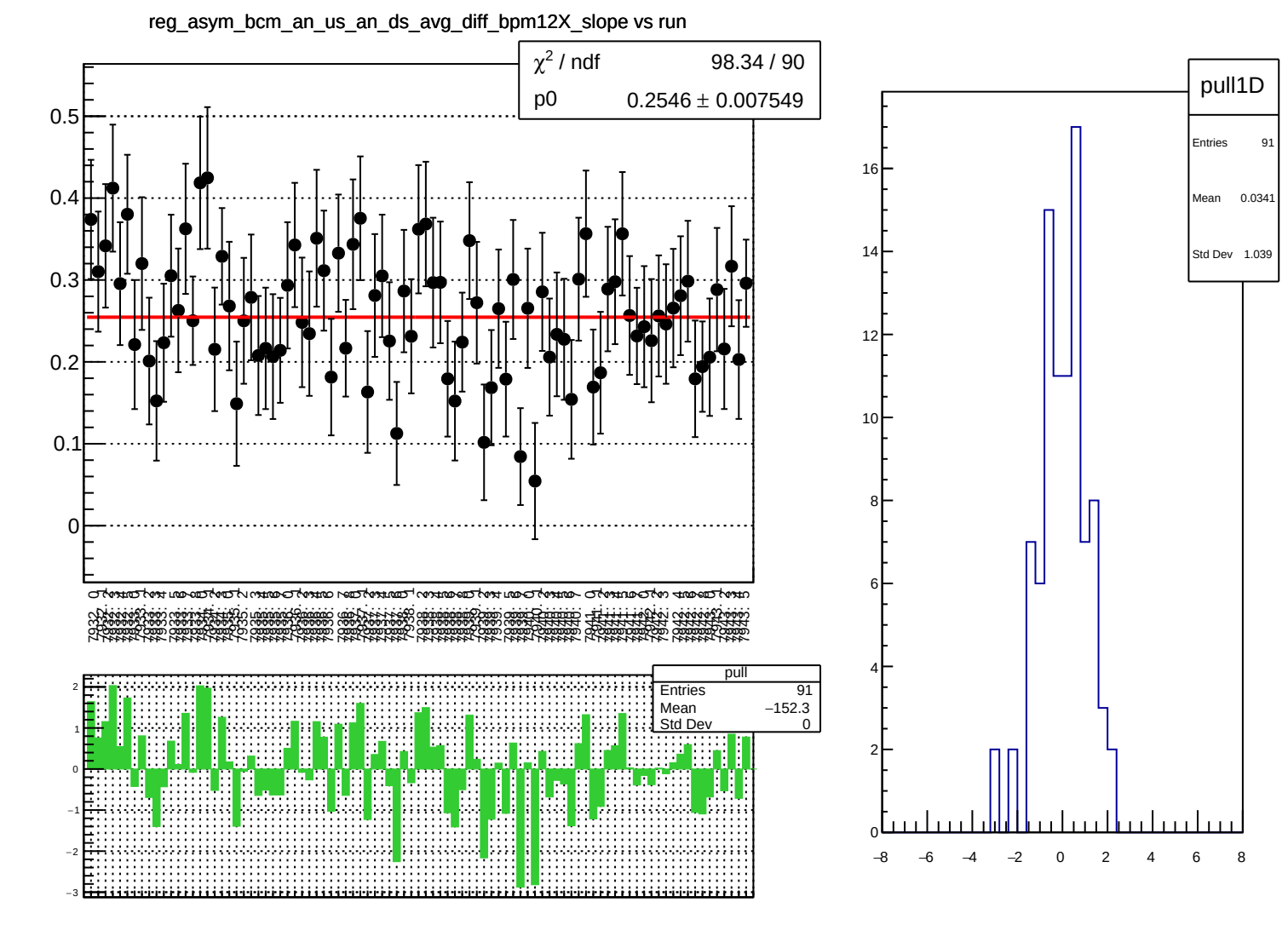

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 142.5 / 90
p0 12.03 ± 0.2241
pull
Entries 91
Mean −153.5
Std Dev 0
pull1D
Entries 91
Mean 0.06715
Std Dev 1.25

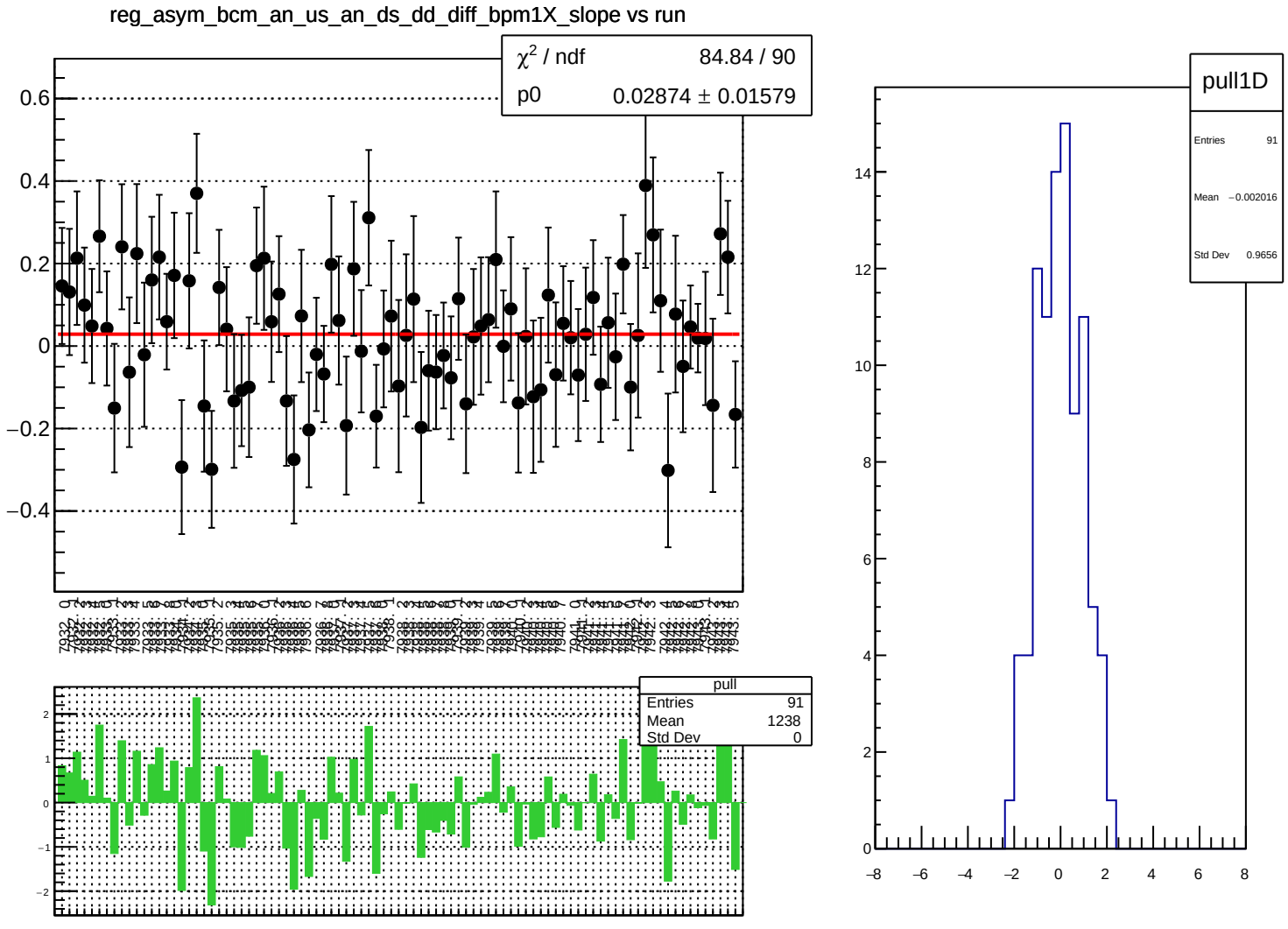

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.6 / 90
p0 −2.007 ± 0.2337
pull
Entries 91
Mean −230.9
Std Dev 0

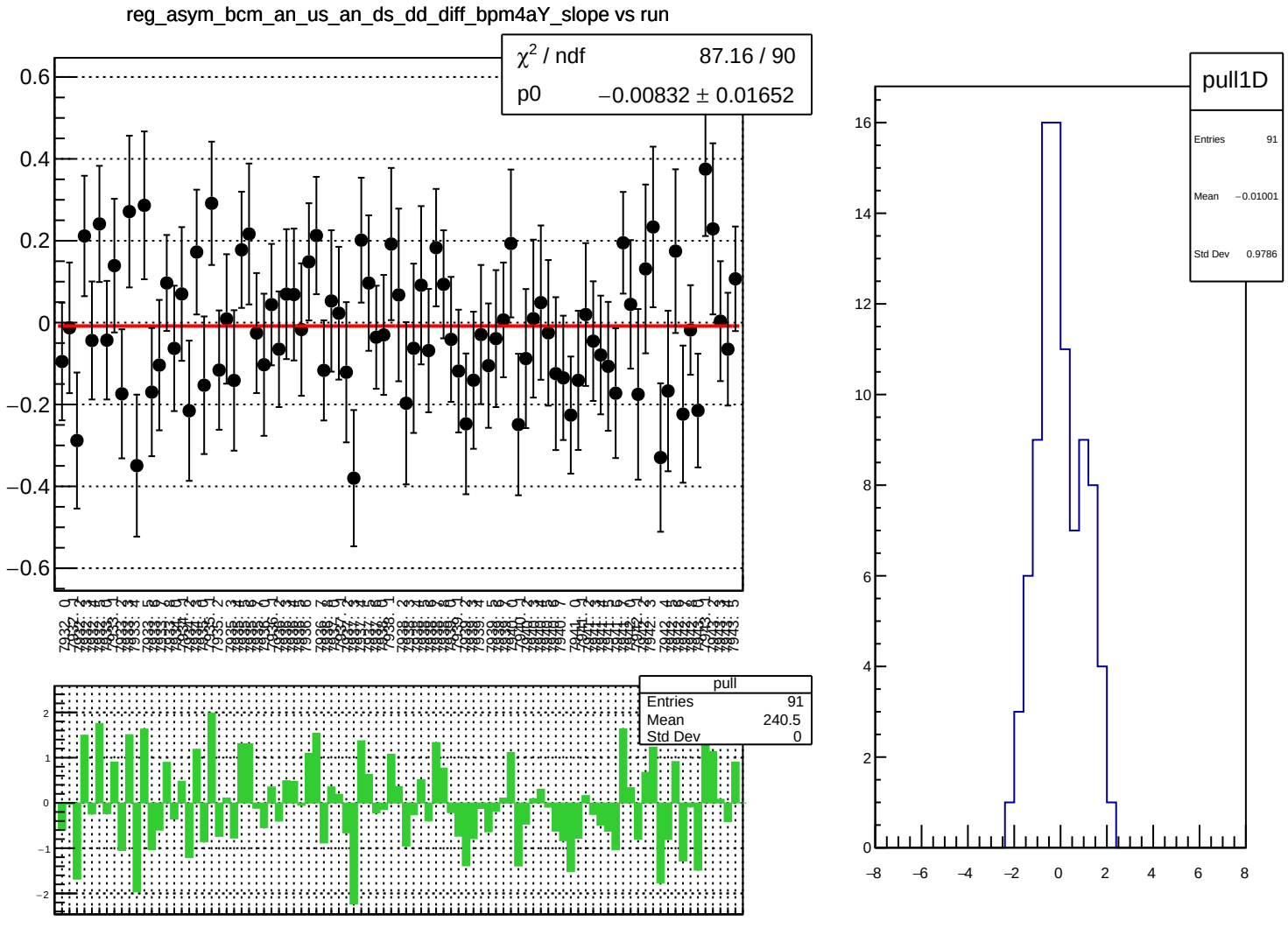

pull1D
Entries 91
Mean 0.003589
Std Dev 0.9978

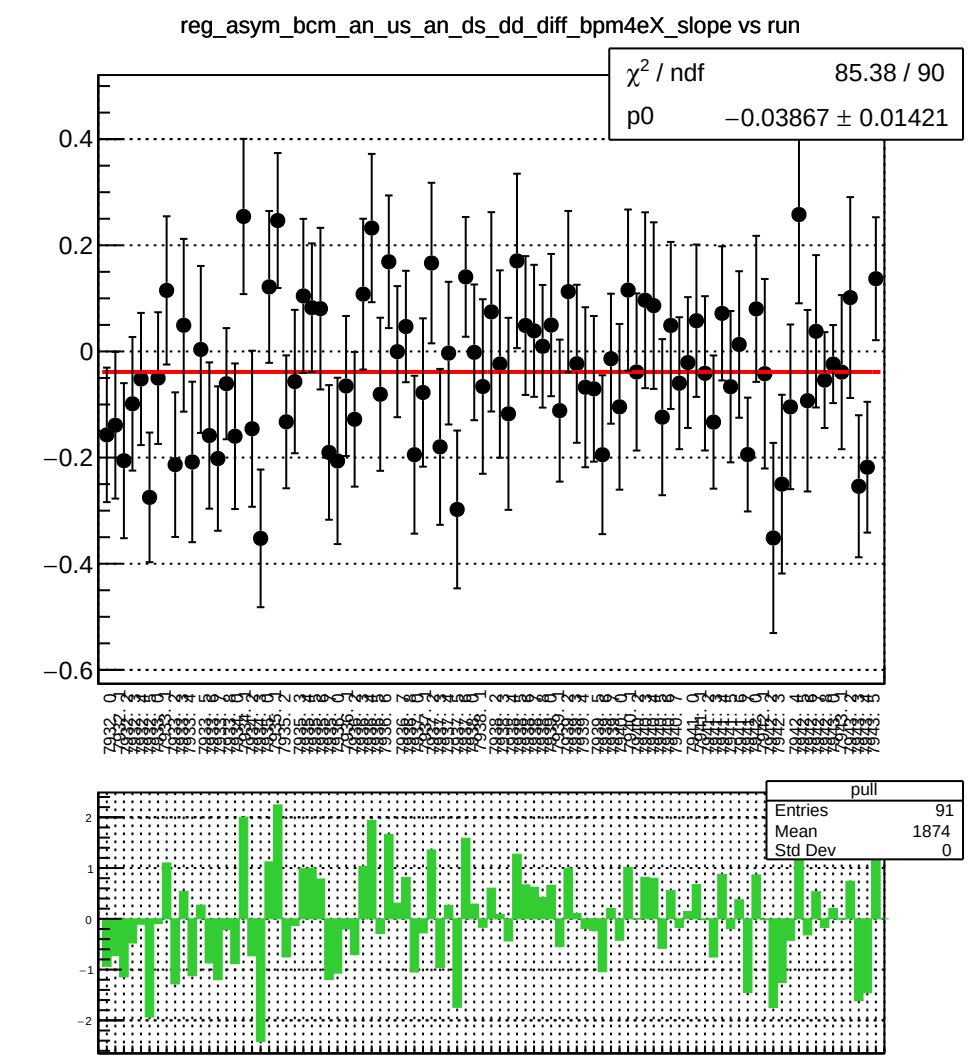

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 142.3 / 90
p0 −10.88 ± 0.2016
pull
Entries 91
Mean −145.2
Std Dev 0
pull1D
Entries 91
Mean −0.06903
Std Dev 1.248

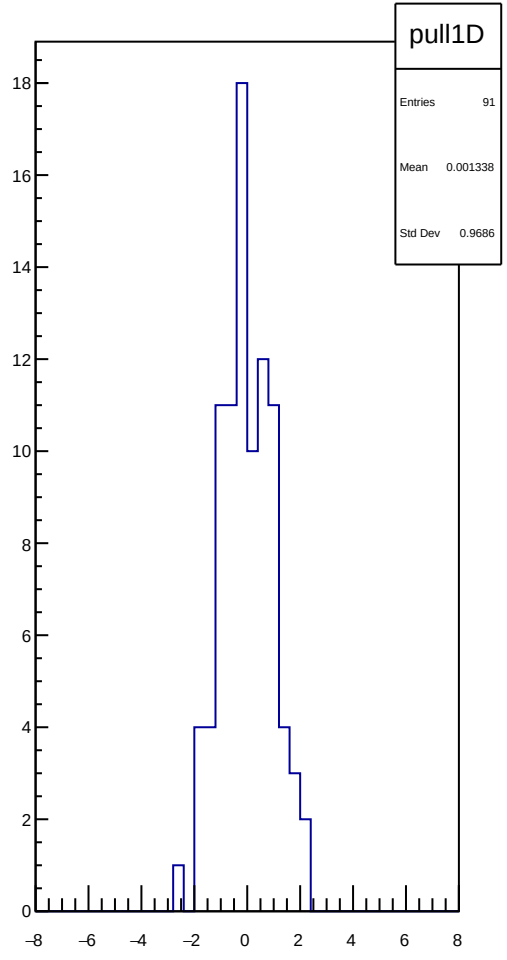

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.24 / 90
p0 1.405 ± 0.2694
pull
Entries 91
Mean −84.07
Std Dev 0
pull1D
Entries 91
Mean −0.003116
Std Dev 0.9958

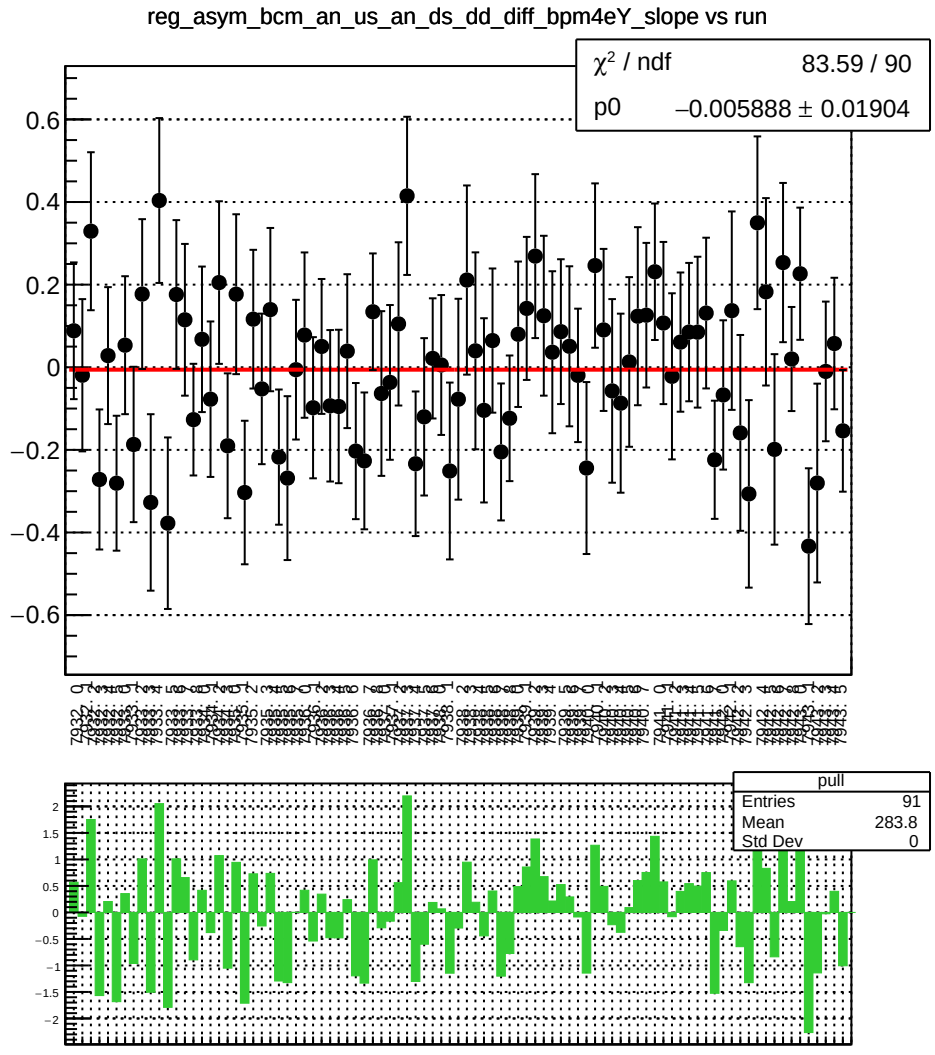

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 98.34 / 90
p0 0.2546 ± 0.007549
pull
Entries 91
Mean −152.3
Std Dev 0
pull1D
Entries 91
Mean 0.0341
Std Dev 1.039

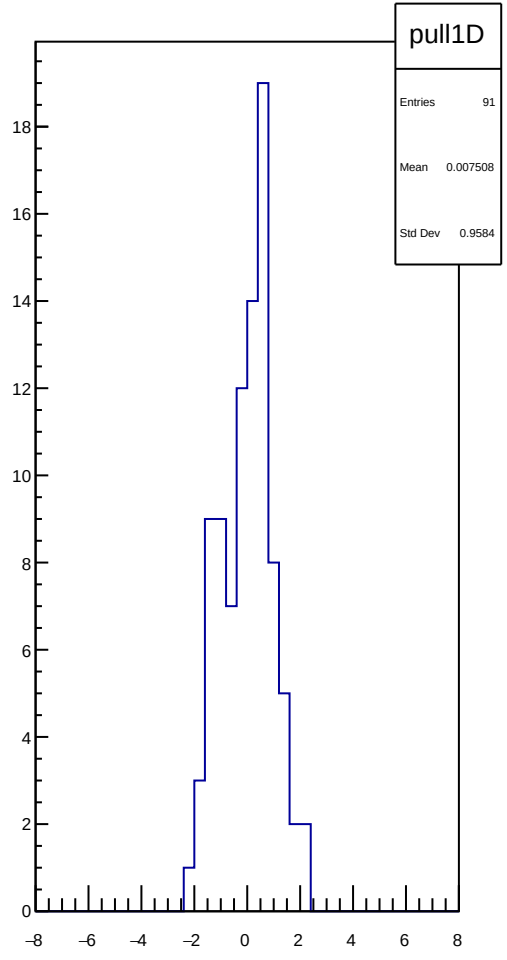

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 84.84 / 90
p0 0.02874 ± 0.01579
pull
Entries 91
Mean 1238
Std Dev 0
pull1D
Entries 91
Mean −0.002016
Std Dev 0.9656

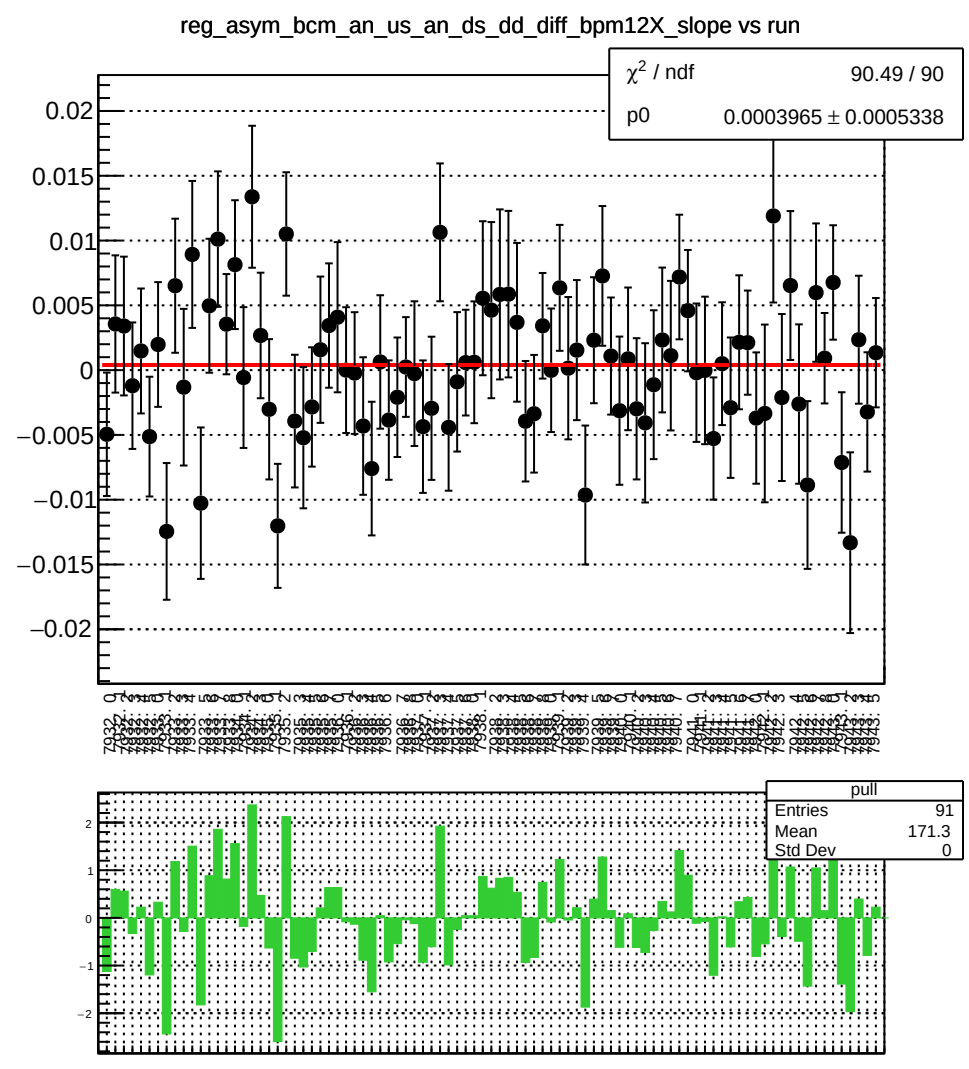

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.16 / 90
p0 −0.00832 ± 0.01652
pull
Entries 91
Mean 240.5
Std Dev 0
pull1D
Entries 91
Mean −0.01001
Std Dev 0.9786

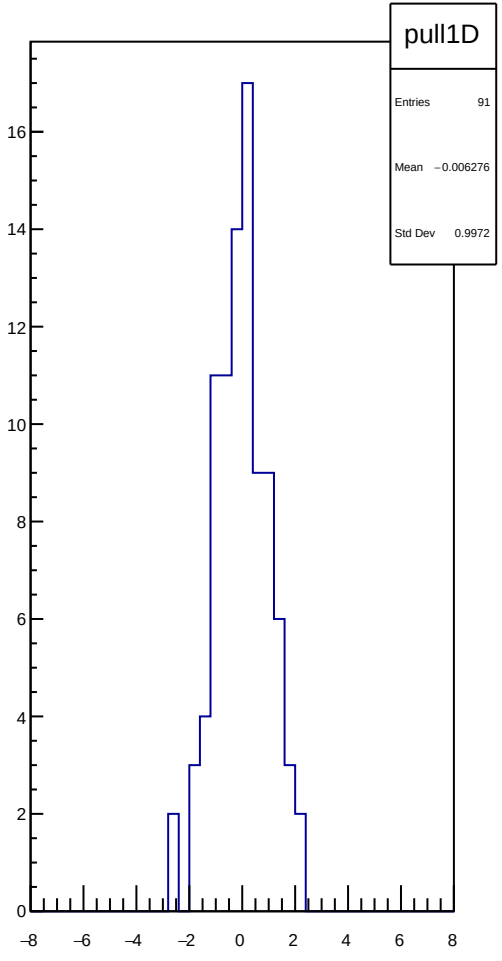

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.38 / 90
p0 −0.03867 ± 0.01421
pull
Entries 91
Mean 1874
Std Dev 0

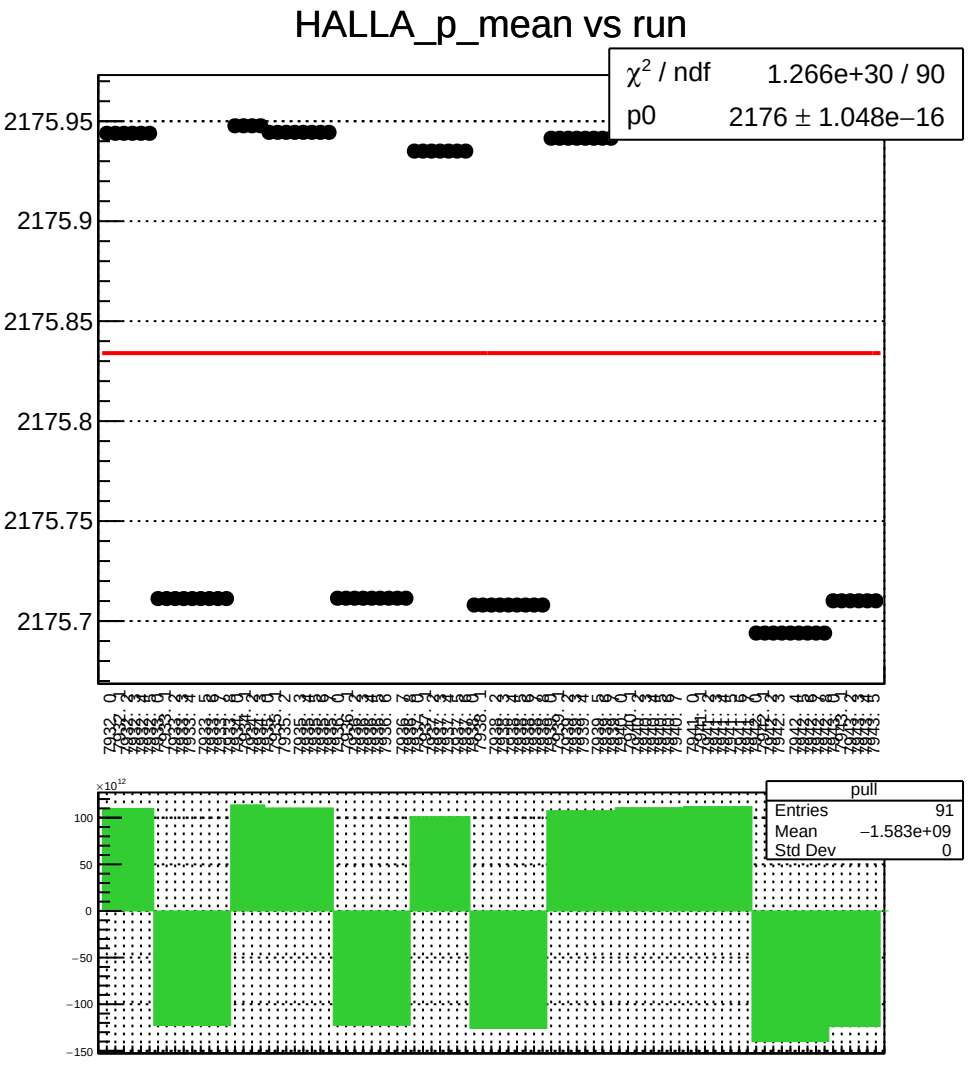

pull1D
Entries 91
Mean 0.001338
Std Dev 0.9686

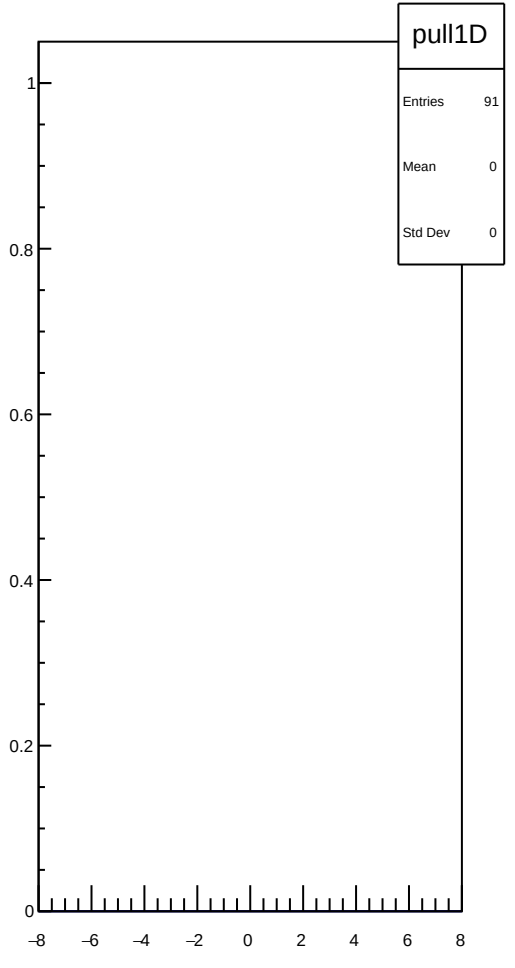

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.59 / 90
p0 −0.005888 ± 0.01904
pull
Entries 91
Mean 283.8
Std Dev 0

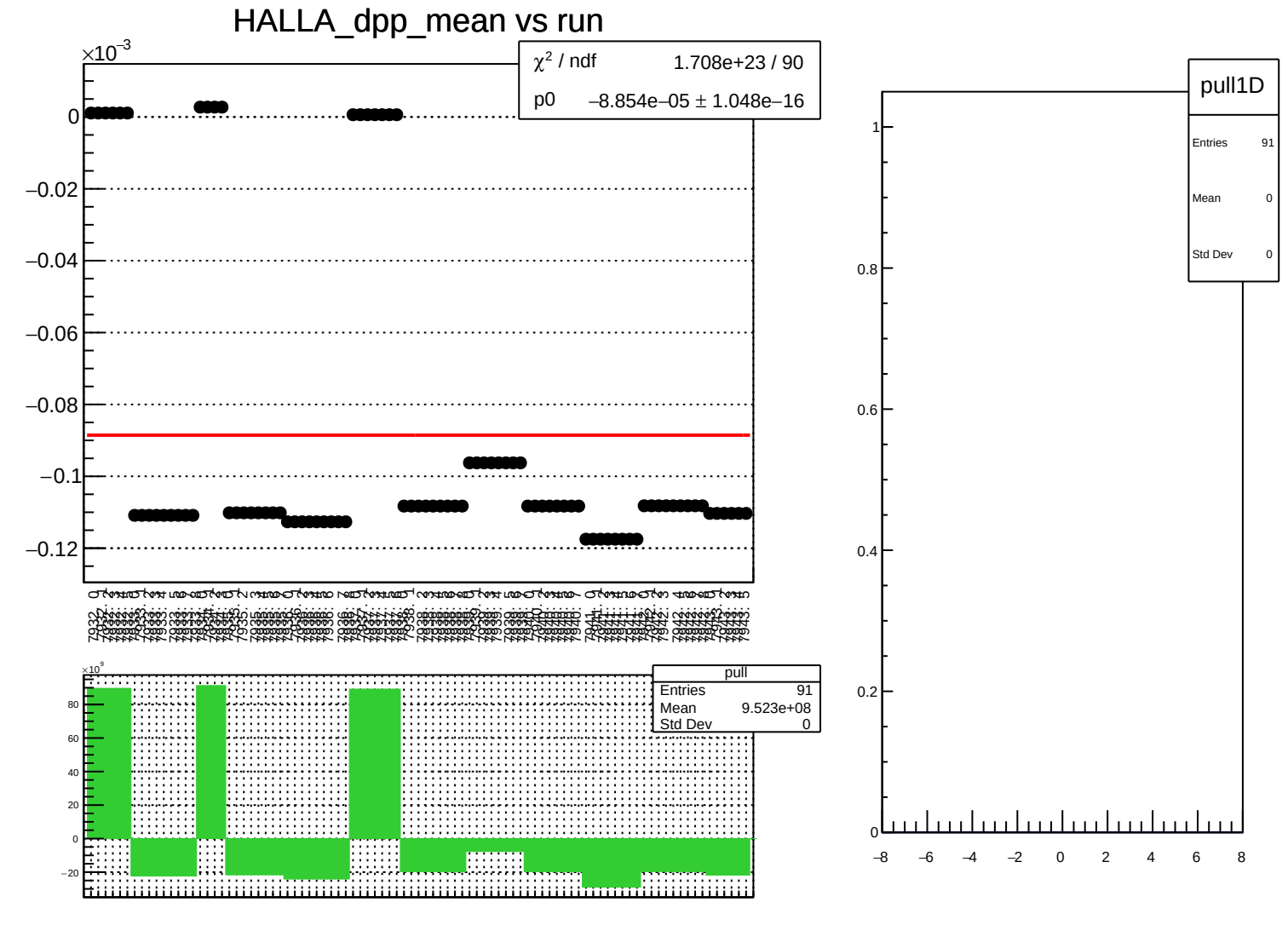

pull1D
Entries 91
Mean 0.007508
Std Dev 0.9584

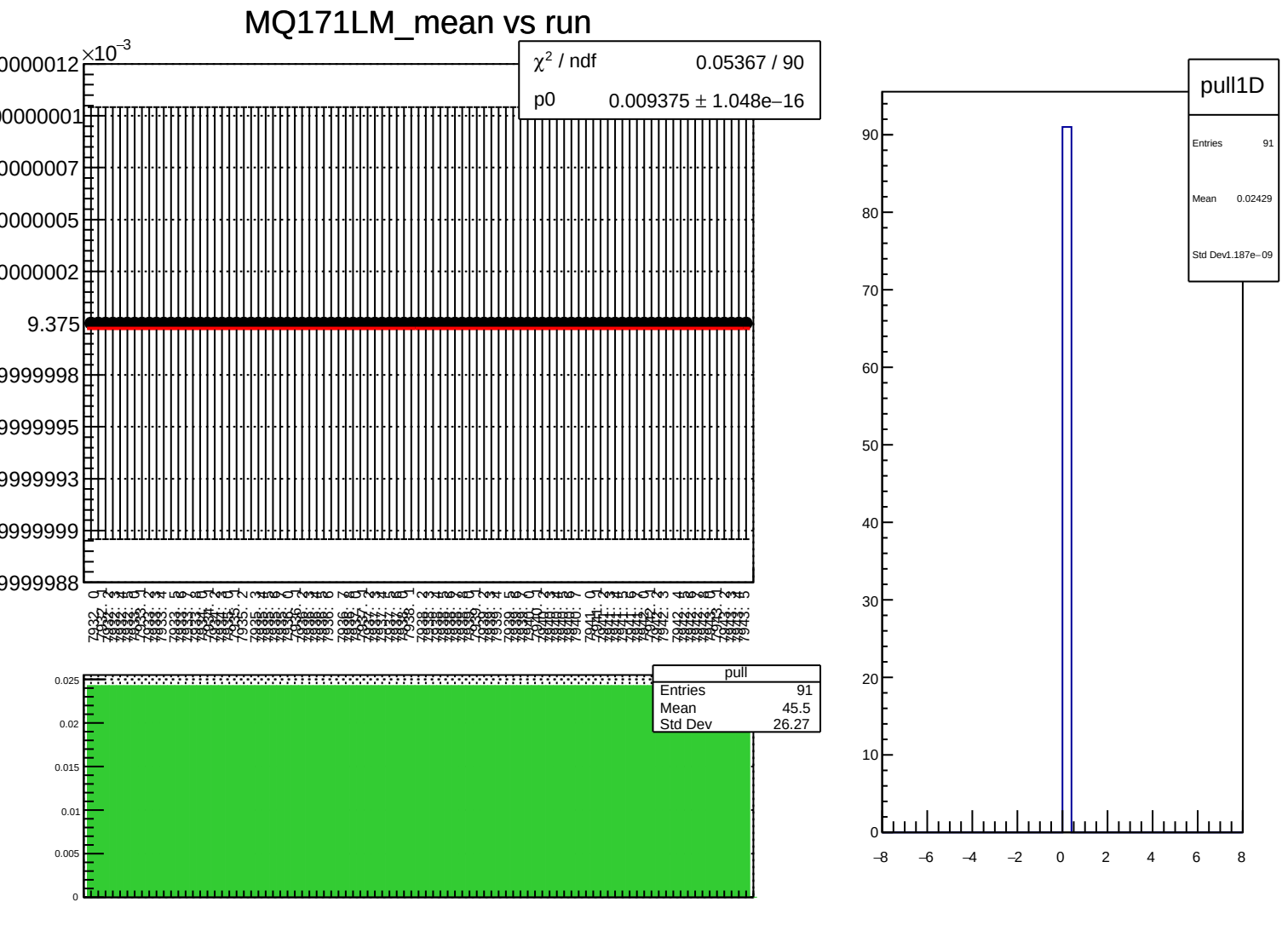

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 90.49 / 90
p0 0.0003965 ± 0.0005338
pull
Entries 91
Mean 171.3
Std Dev 0

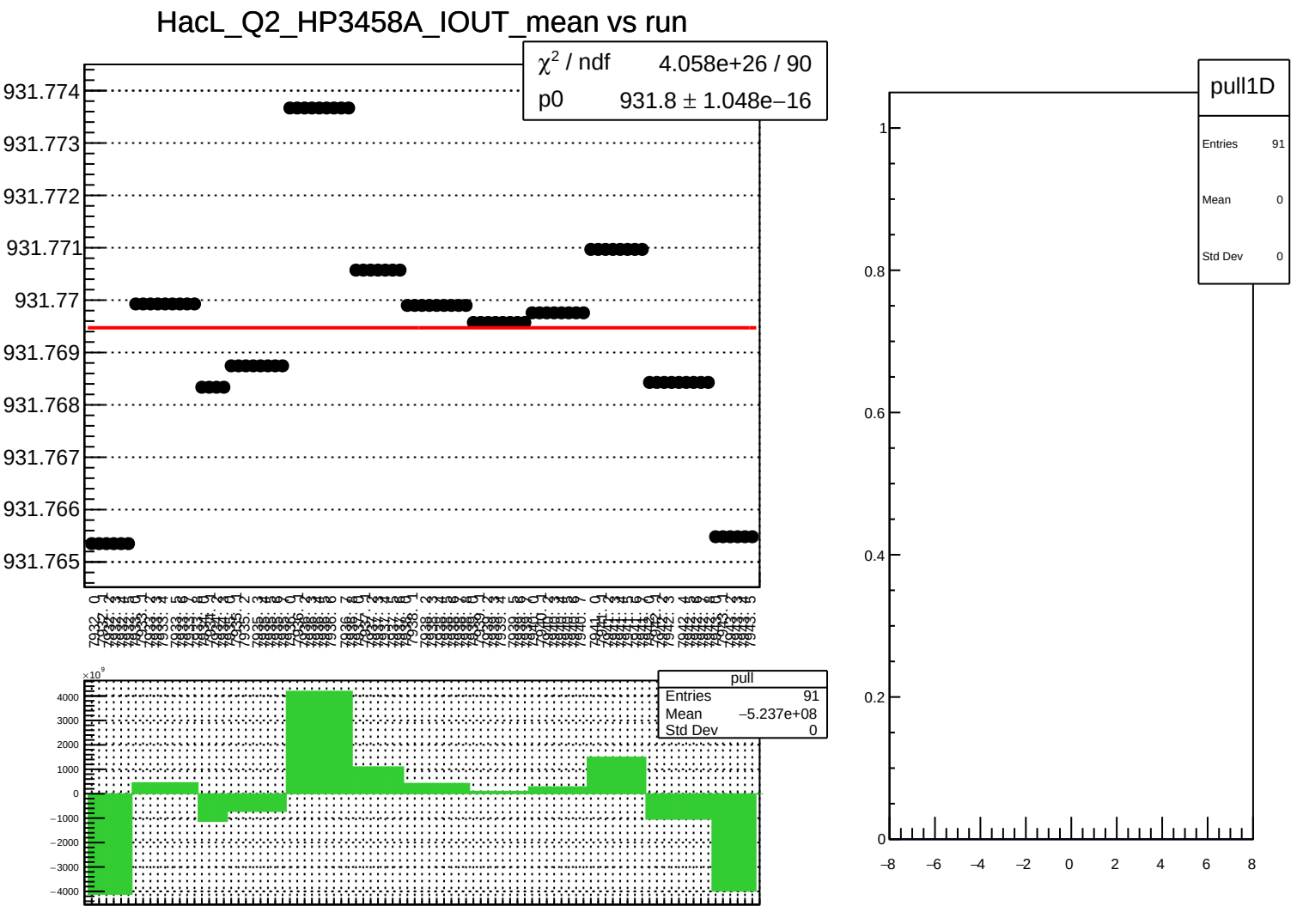

pull1D
Entries 91
Mean −0.006276
Std Dev 0.9972

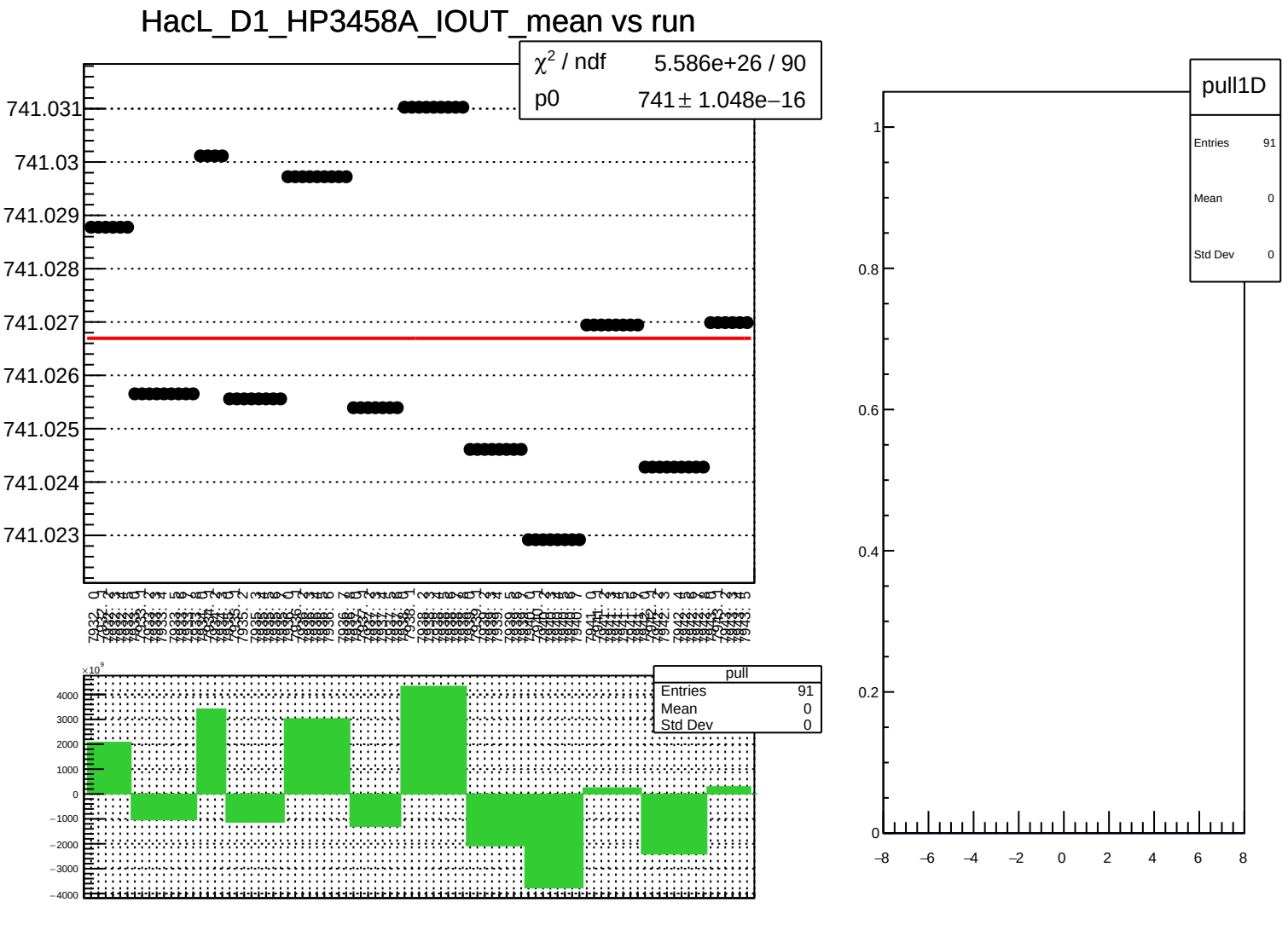

HALLA_p_mean vs run
χ² / ndf 1.266e+30 / 90
p0 2176 ± 1.048e−16
2175.95
2175.9
2175.85
2175.8
2175.75
2175.7
pull
Entries 91
Mean −1.583e+09
Std Dev 0
×10¹²
100
50
0
−50
−100
−150

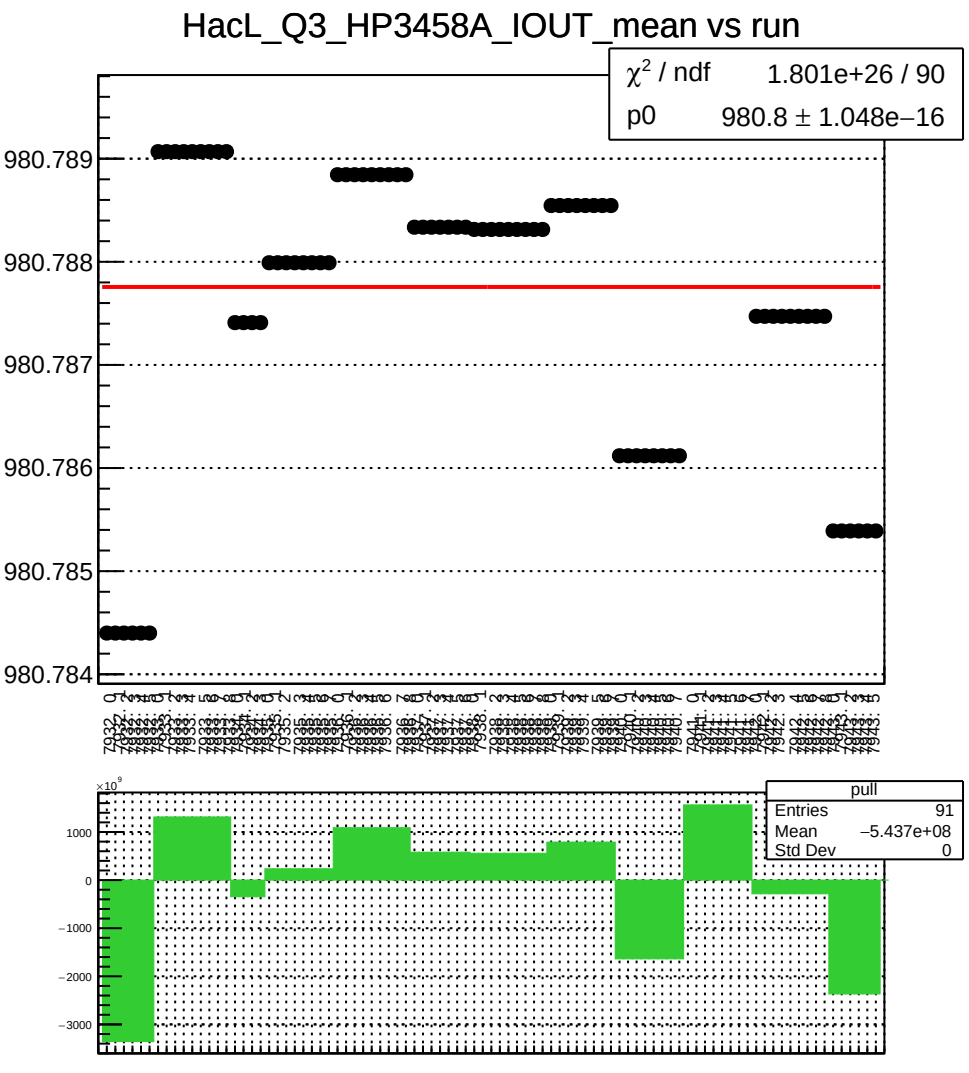

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

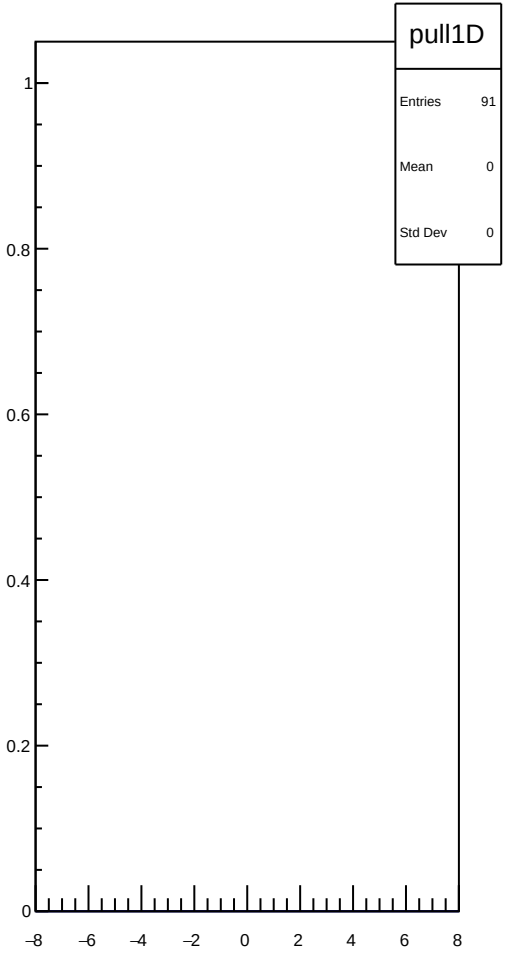

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.708e+23 / 90
p0 −8.854e−05 ± 1.048e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 91
Mean 9.523e+08
Std Dev 0
80
60
40
20
0
−20
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

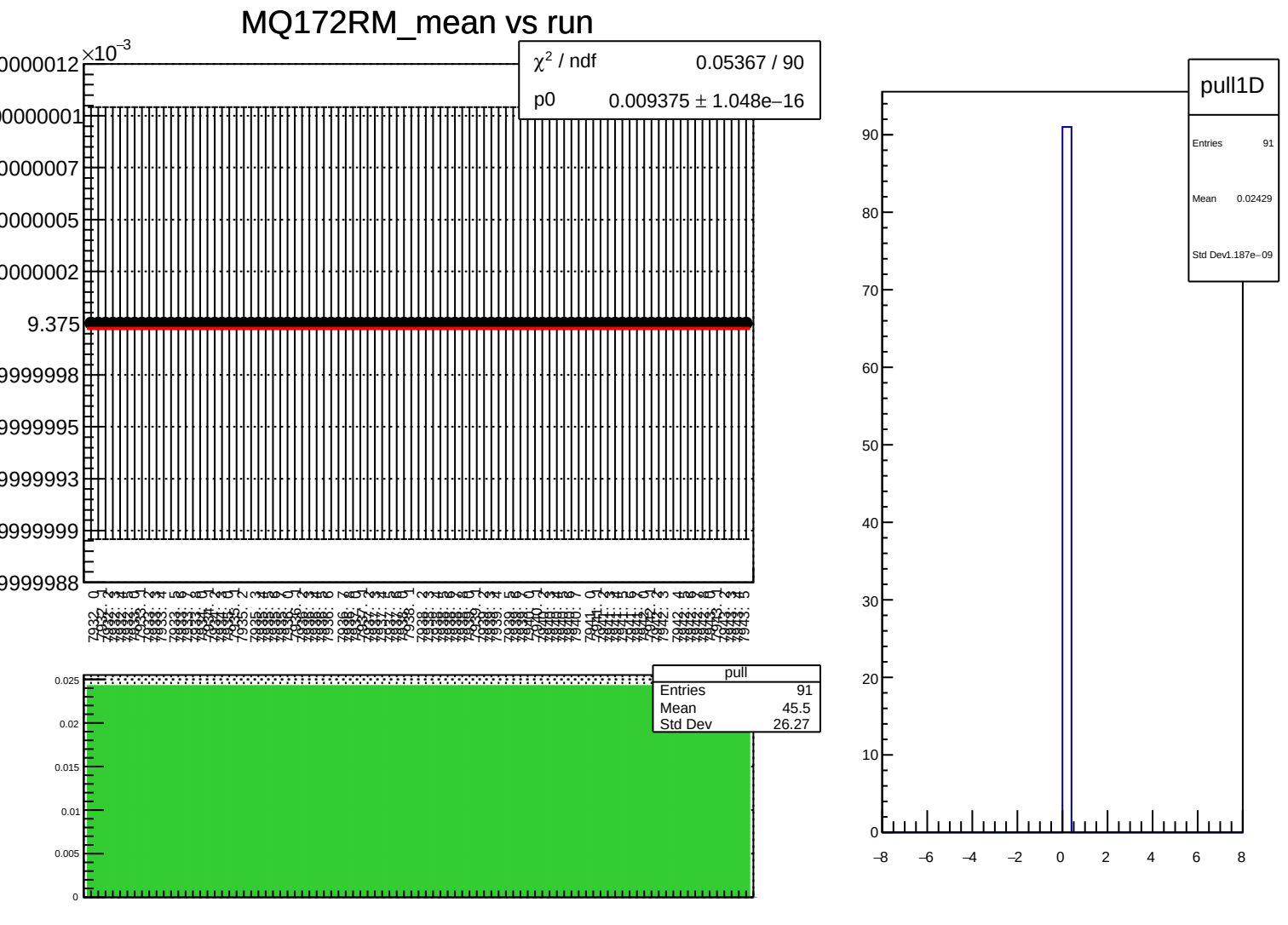

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
9.375
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

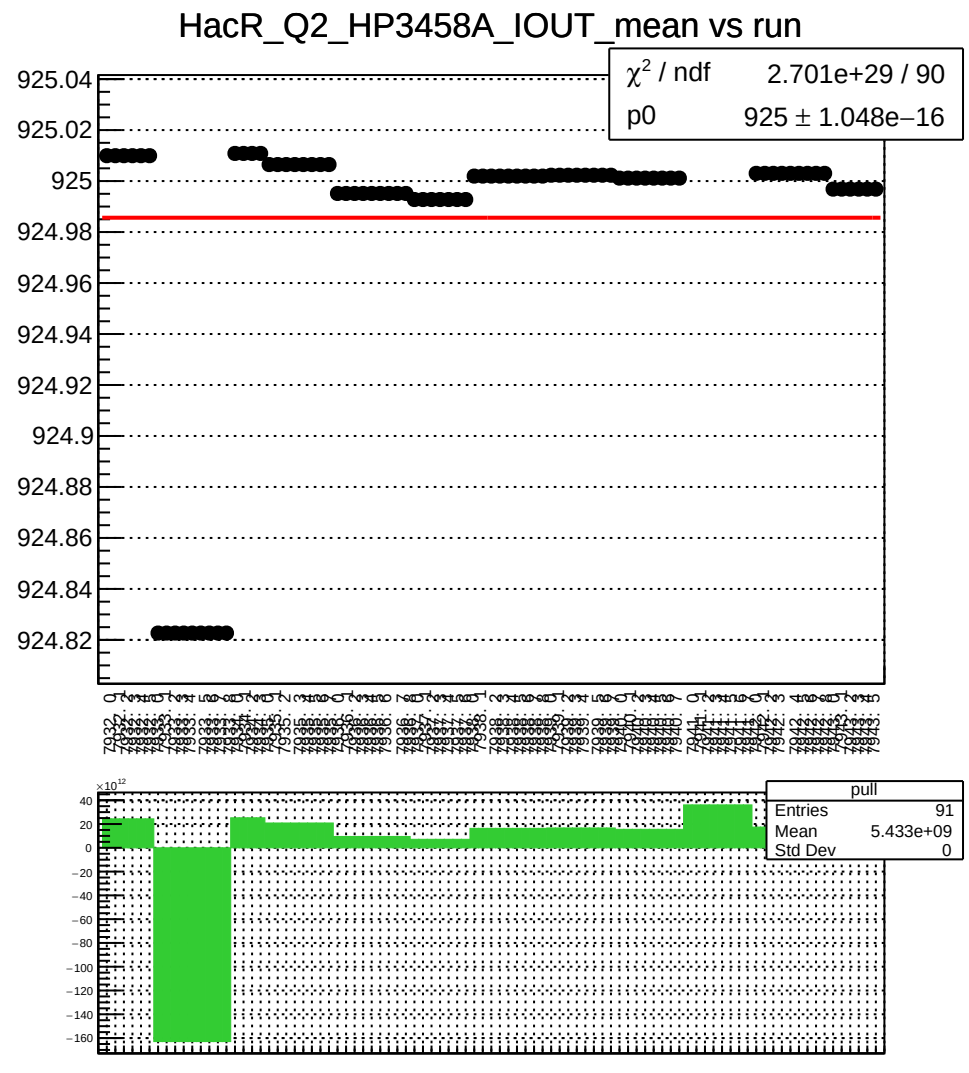

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.058e+26 / 90
p0 931.8 ± 1.048e−16
931.774
931.773
931.772
931.771
931.77
931.769
931.768
931.767
931.766
931.765
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean −5.237e+08
Std Dev 0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

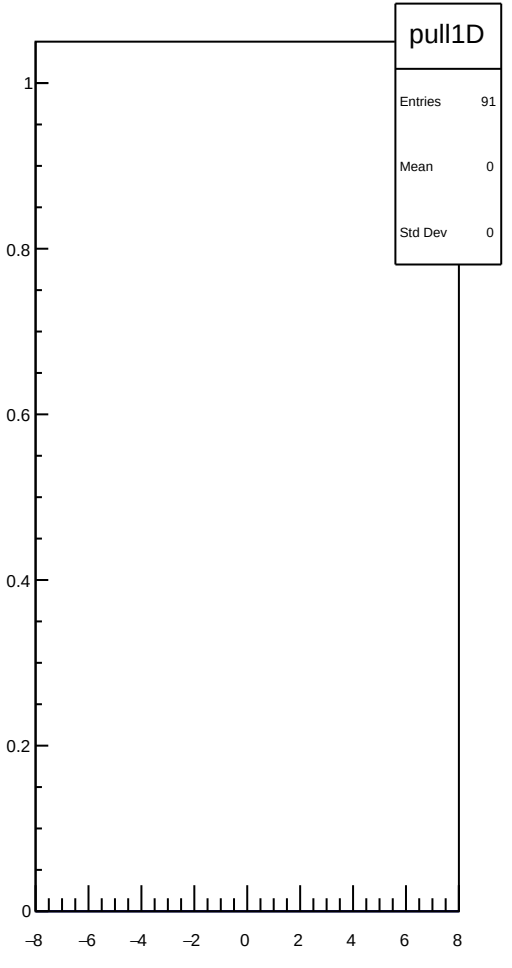

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.586e+26 / 90
p0 741 ± 1.048e−16
741.031
741.03
741.029
741.028
741.027
741.026
741.025
741.024
741.023
pull
Entries 91
Mean 0
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

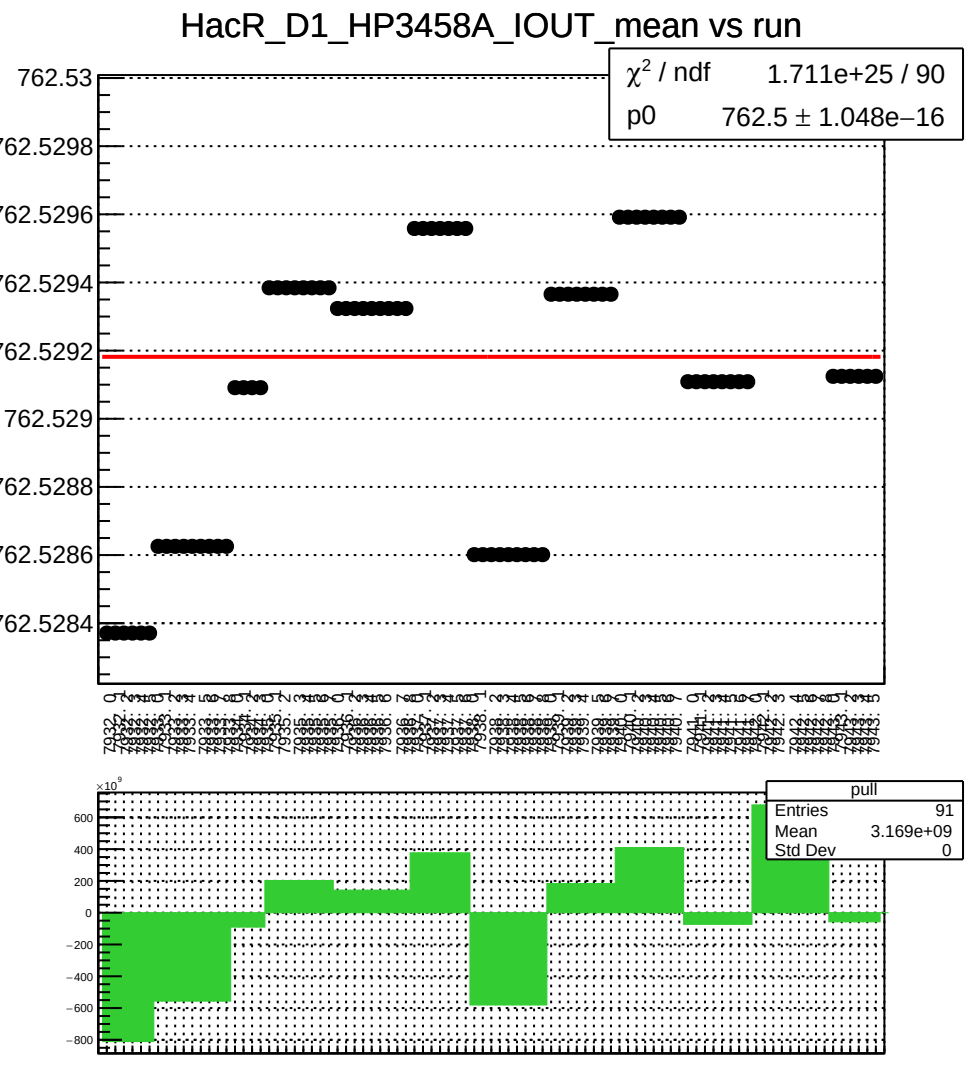

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.801e+26 / 90
p0 980.8 ± 1.048e−16
980.789
980.788
980.787
980.786
980.785
980.784
pull
Entries 91
Mean −5.437e+08
Std Dev 0
×10⁹
1000
0
−1000
−2000
−3000

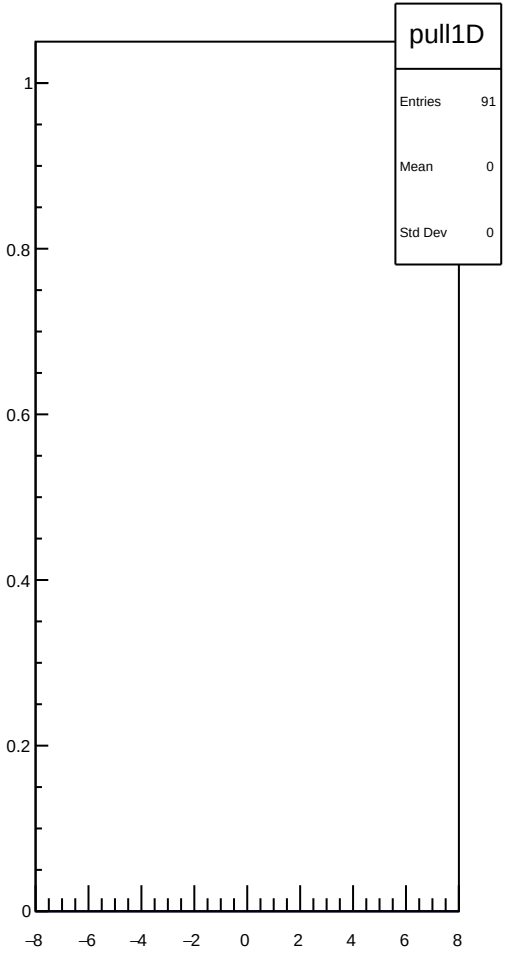

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

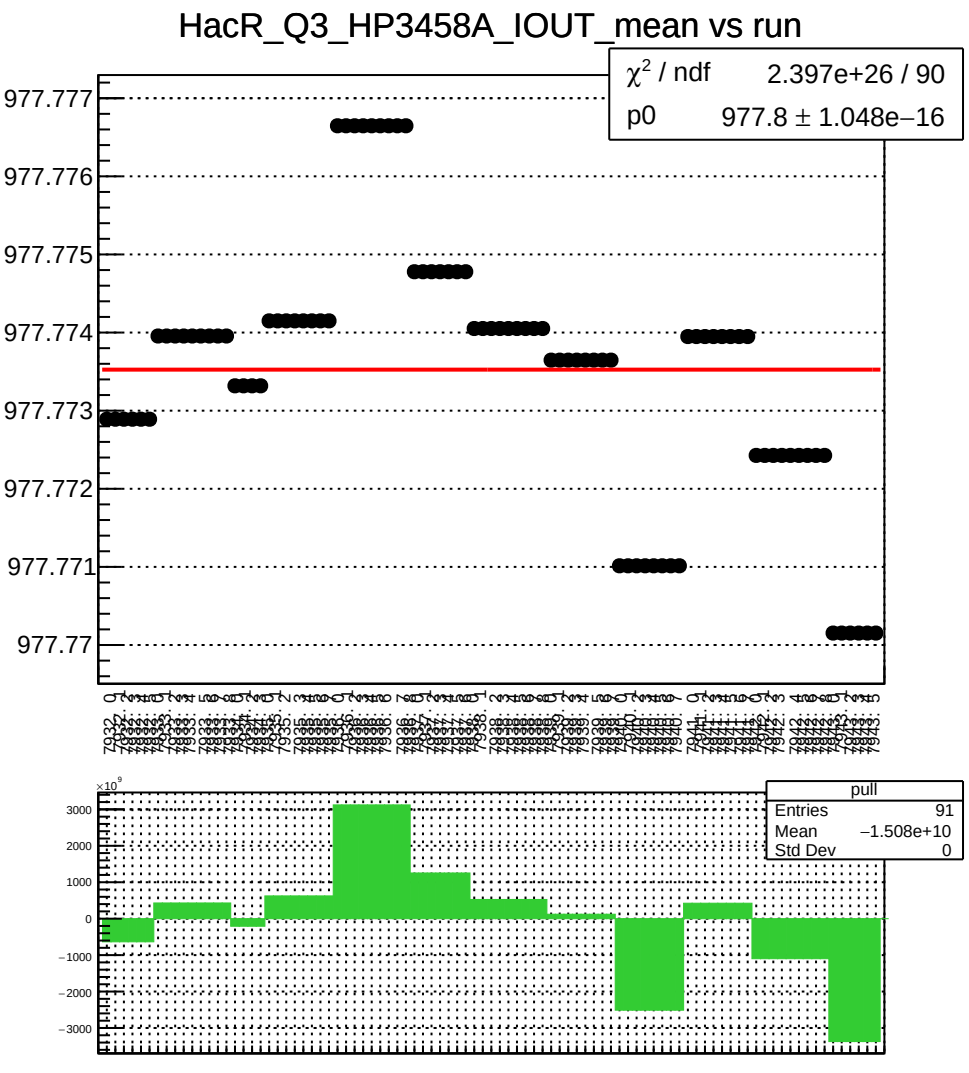

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

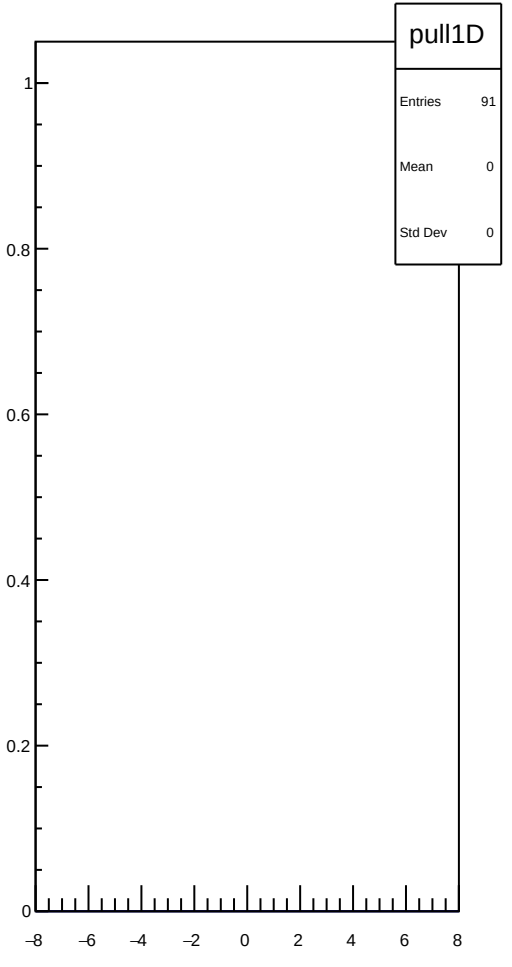

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.701e+29 / 90
p0 925 ± 1.048e−16
925.04
925.02
925
924.98
924.96
924.94
924.92
924.9
924.88
924.86
924.84
924.82
pull
Entries 91
Mean 5.433e+09
Std Dev 0
×10¹²
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160

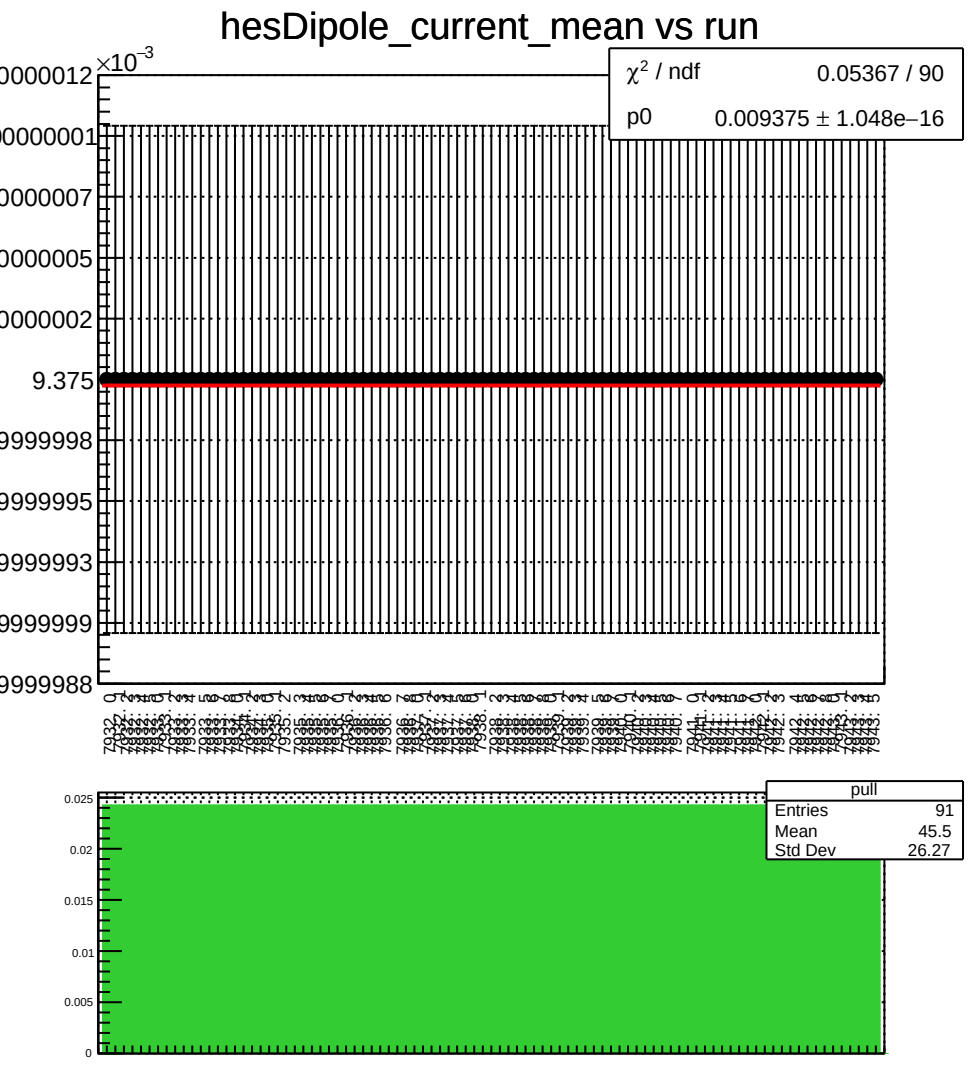

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

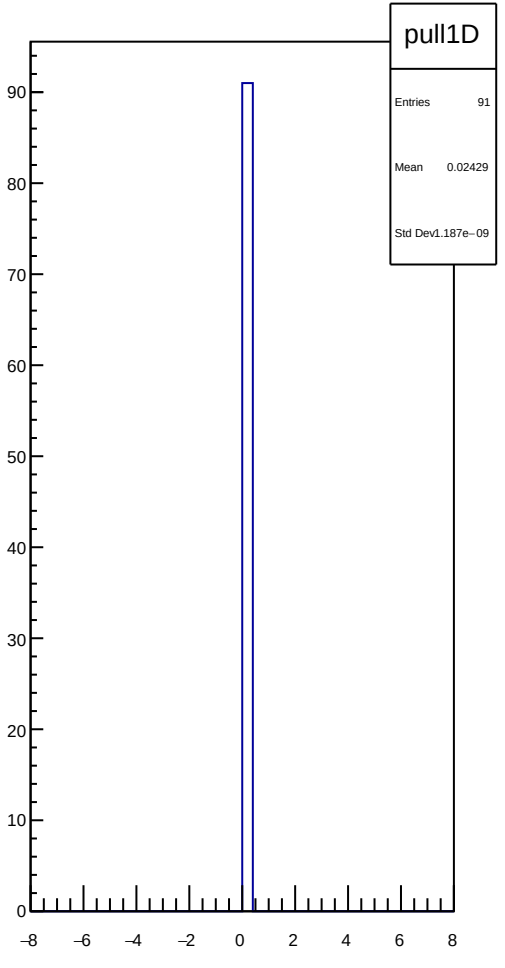

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.711e+25 / 90
p0 762.5 ± 1.048e−16
762.53
762.5298
762.5296
762.5294
762.5292
762.529
762.5288
762.5286
762.5284
pull
Entries 91
Mean 3.169e+09
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600
−800

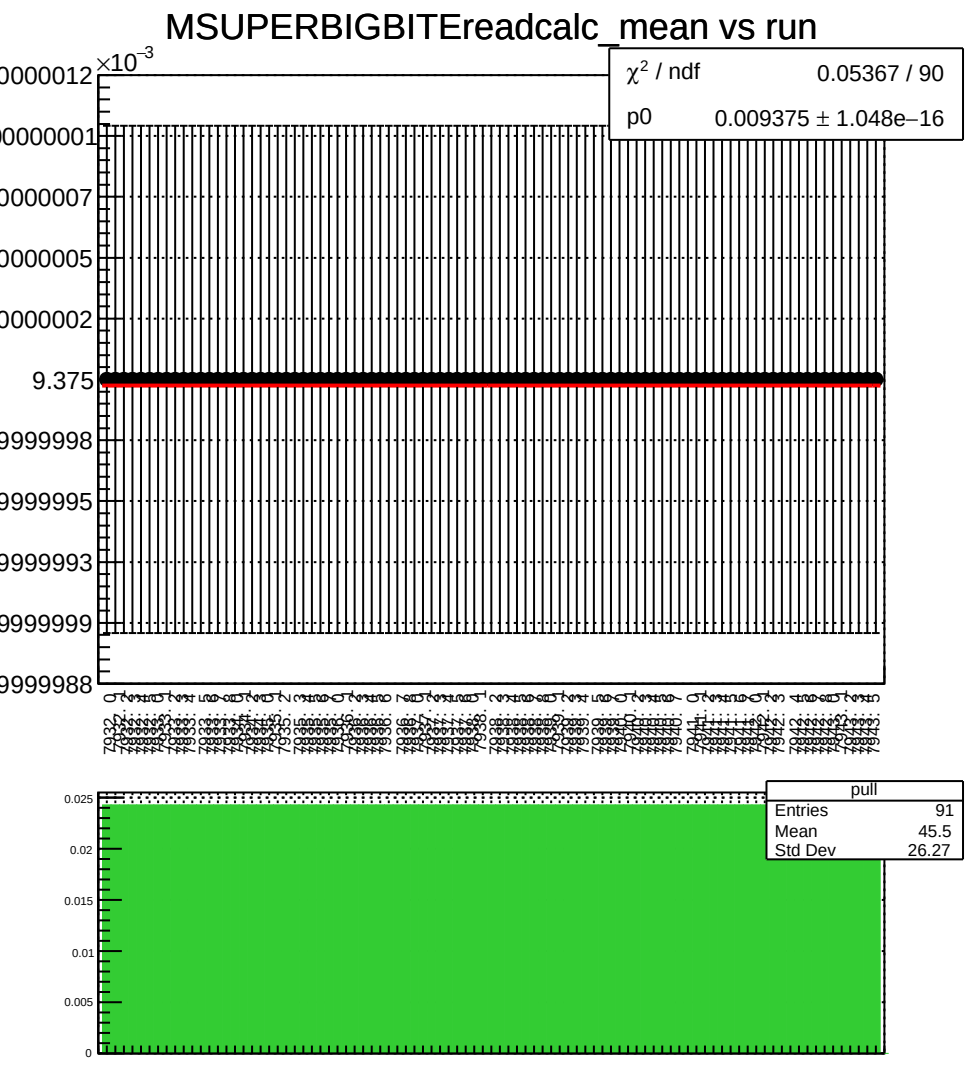

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

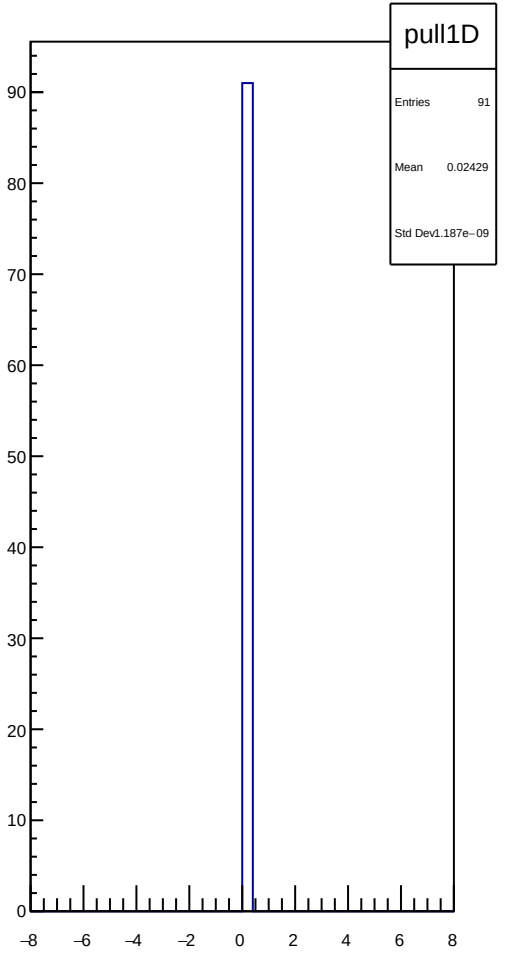

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.397e+26 / 90
p0 977.8 ± 1.048e−16
977.777
977.776
977.775
977.774
977.773
977.772
977.771
977.77
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −1.508e+10
Std Dev 0

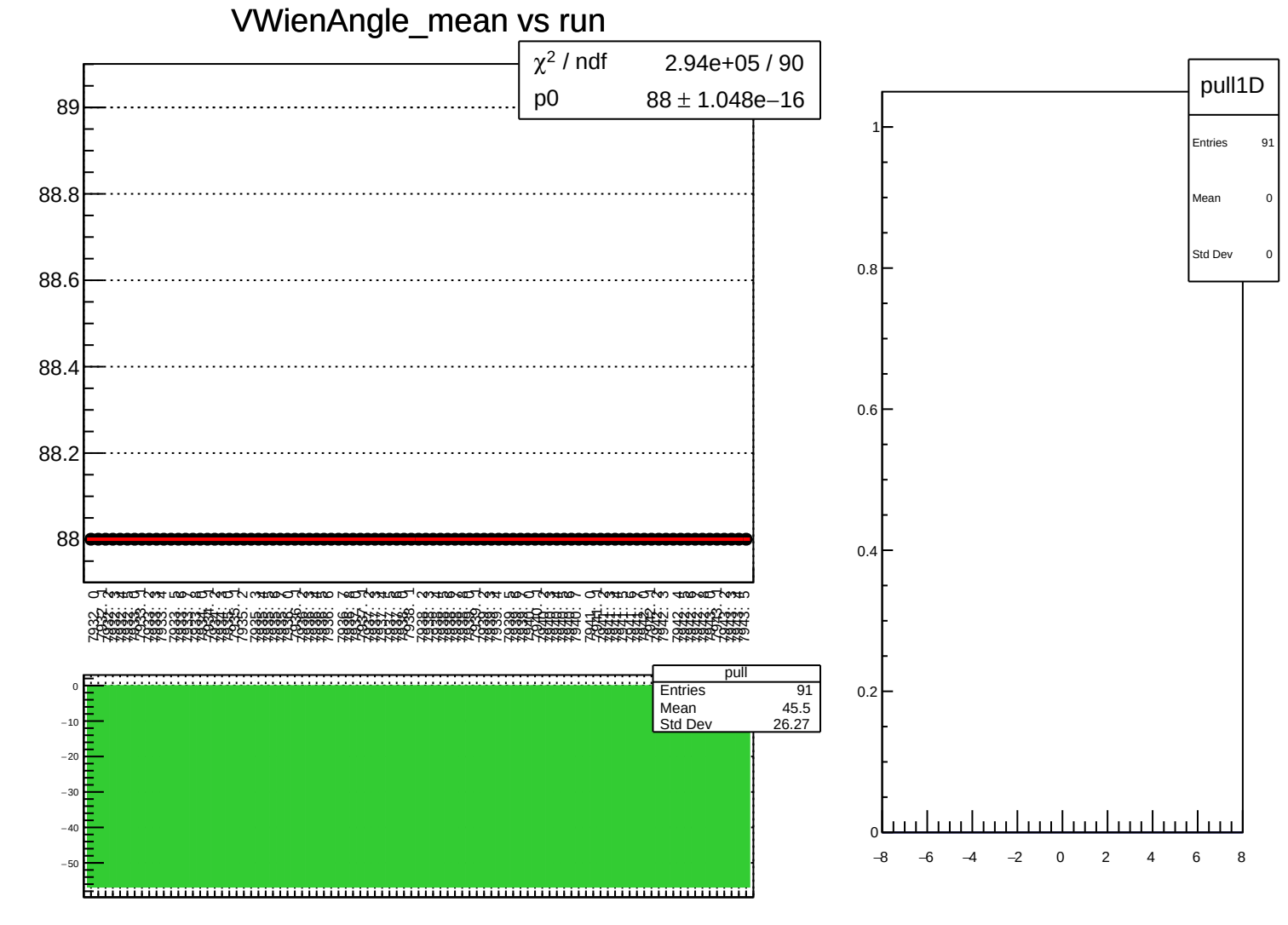

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

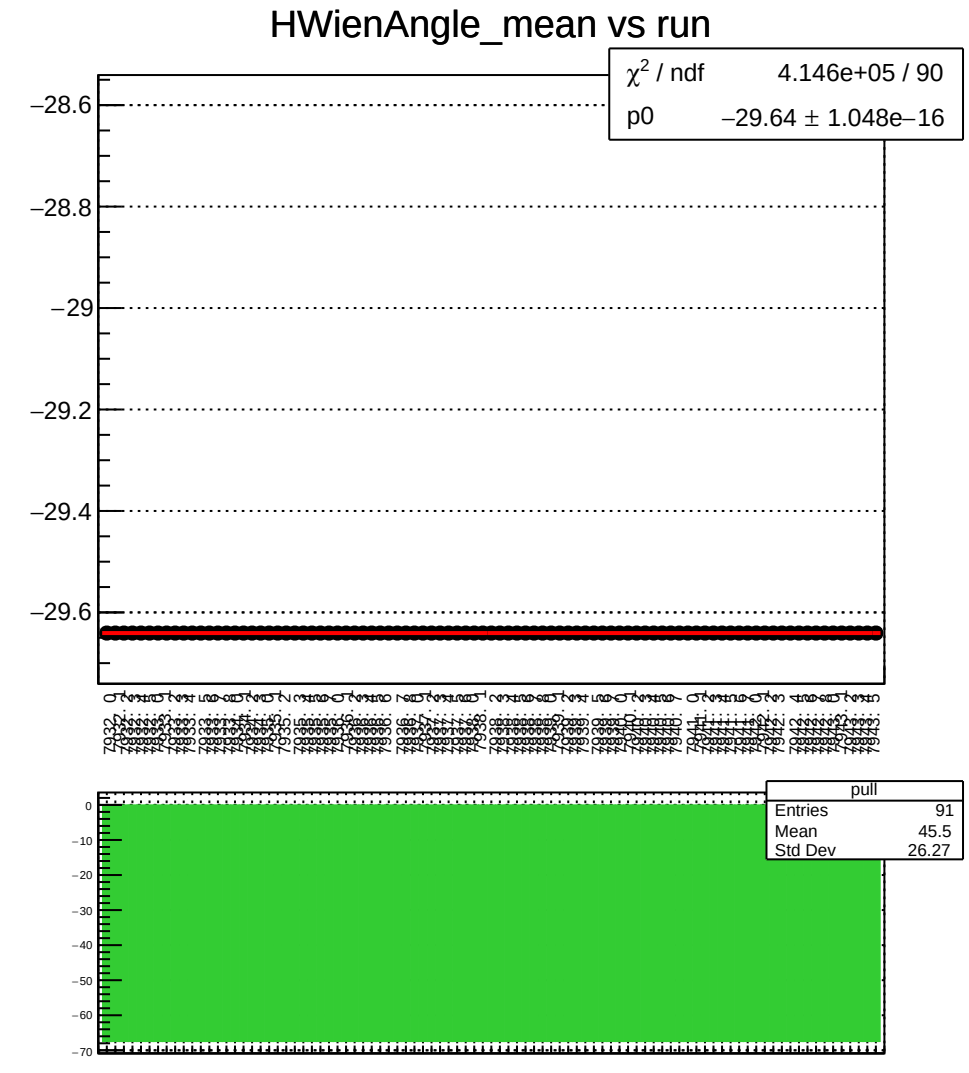

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
9.375
pull
Entries 91
Mean 45.5
Std Dev 26.27

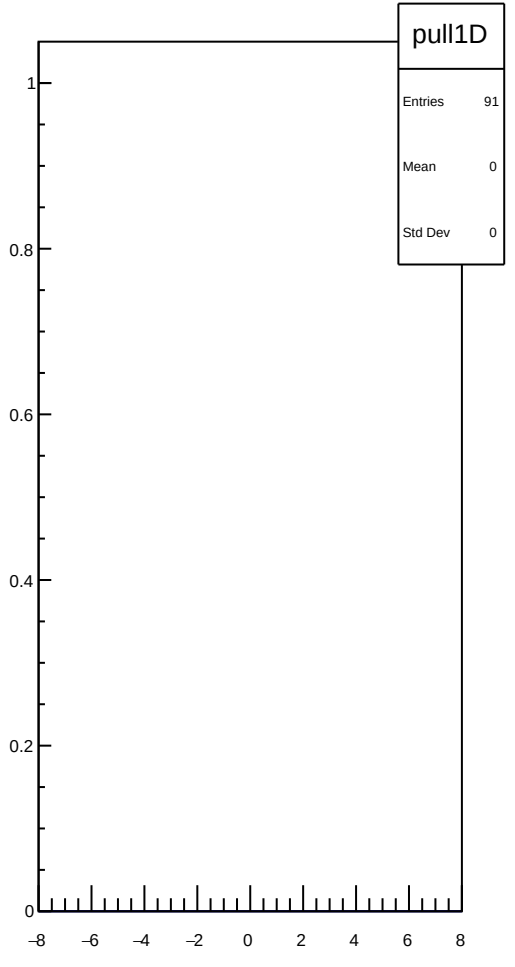

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

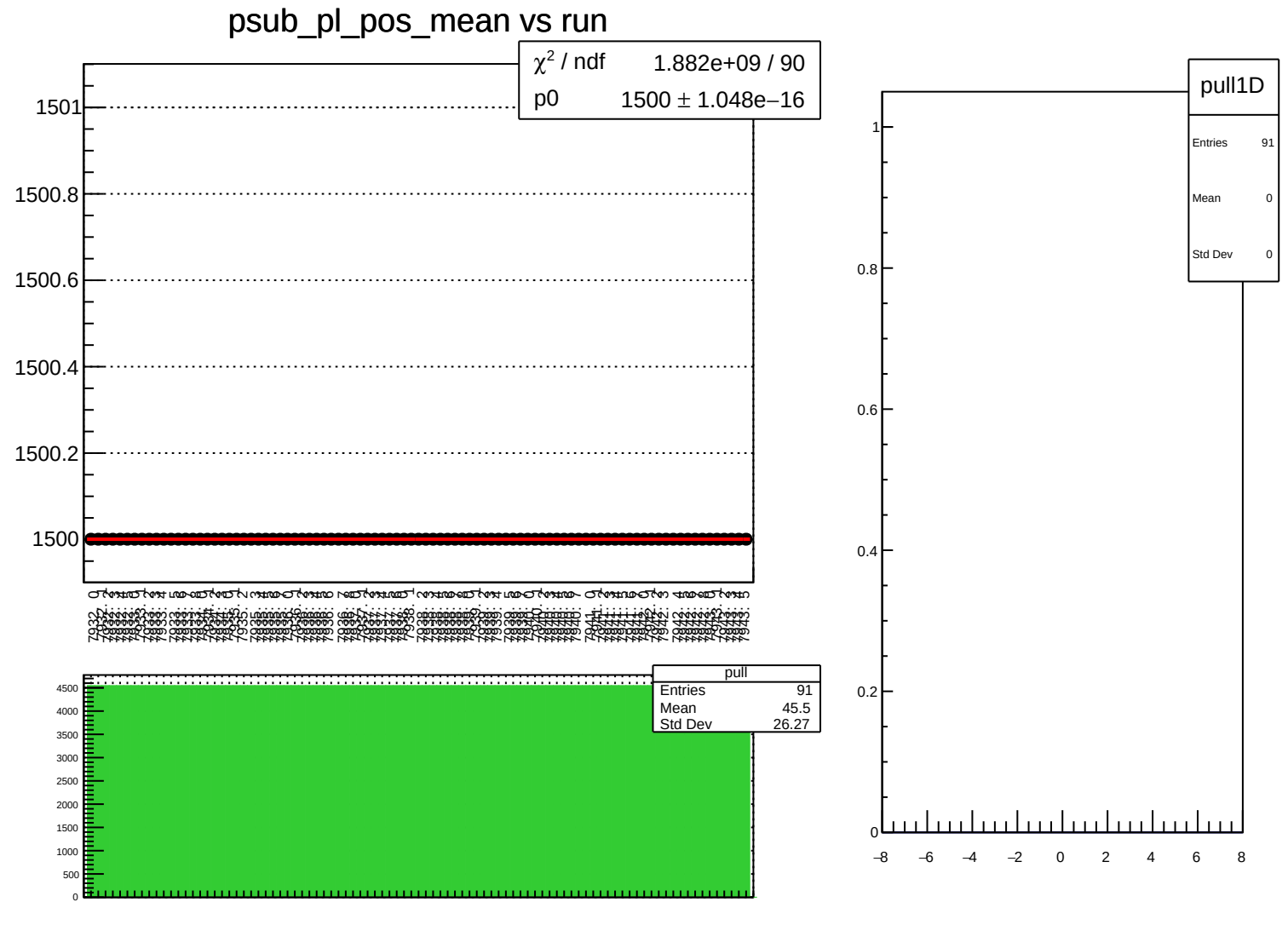

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

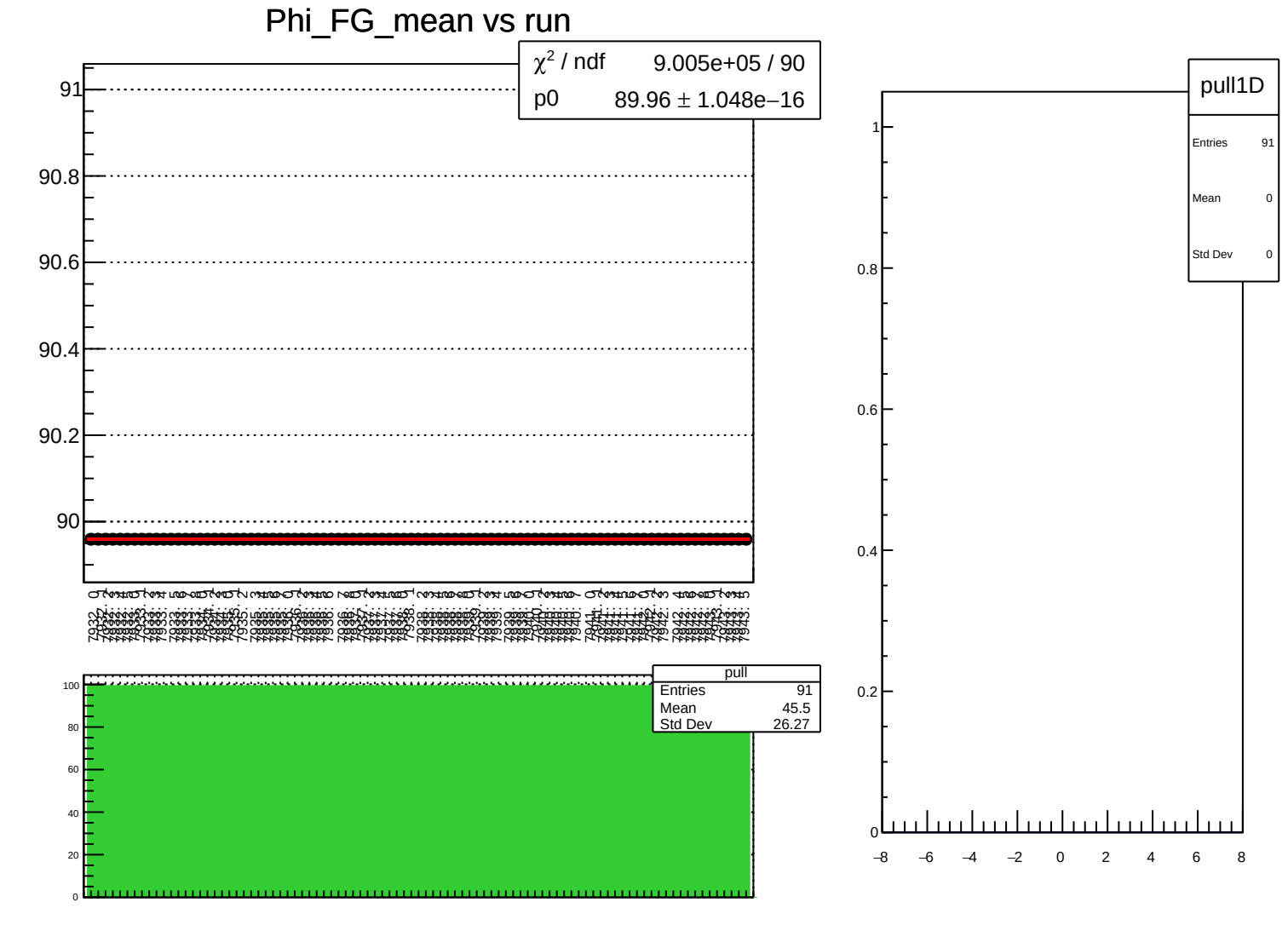

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

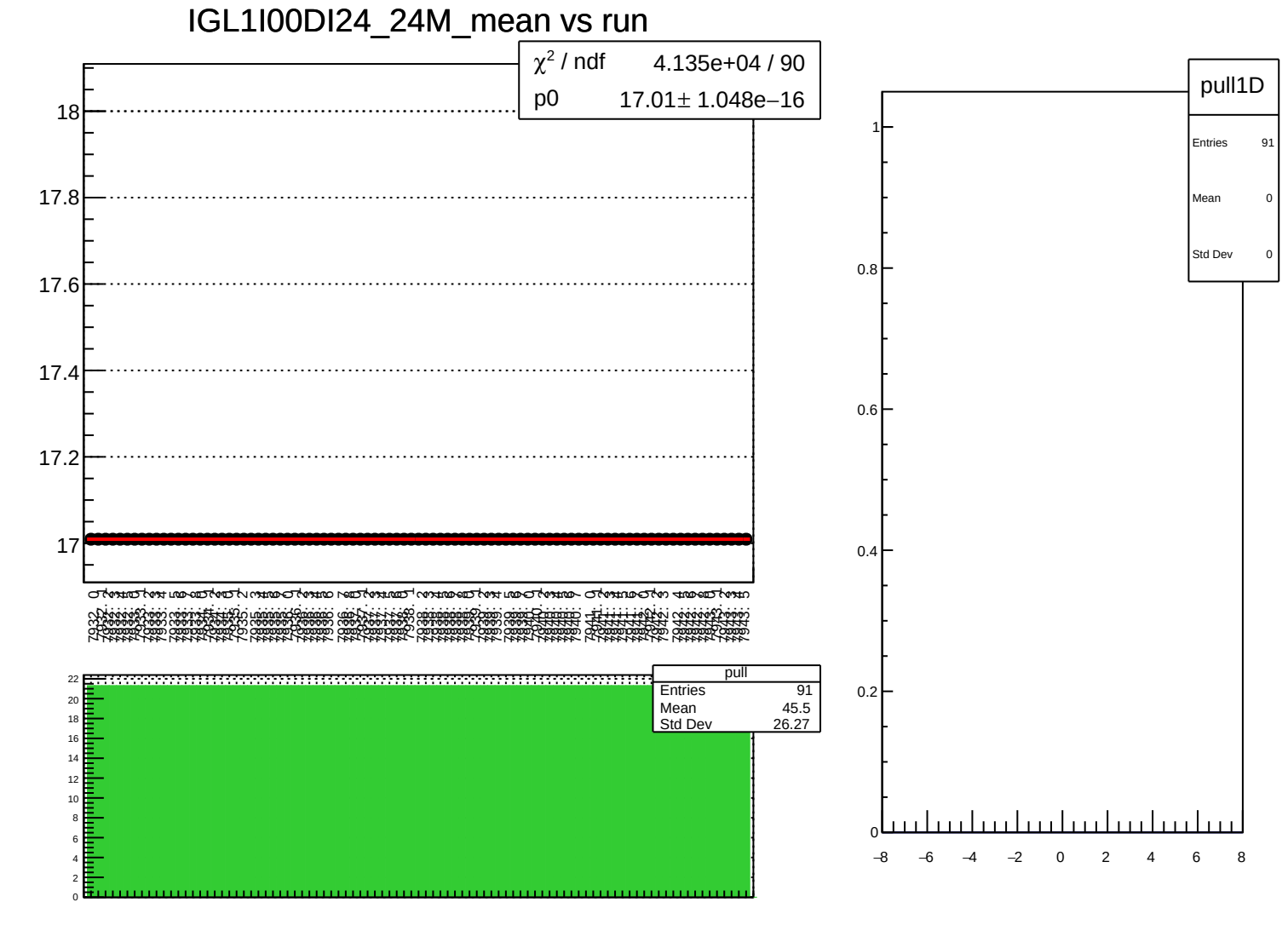

VWienAngle_mean vs run
χ² / ndf 2.94e+05 / 90
p0 88 ± 1.048e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

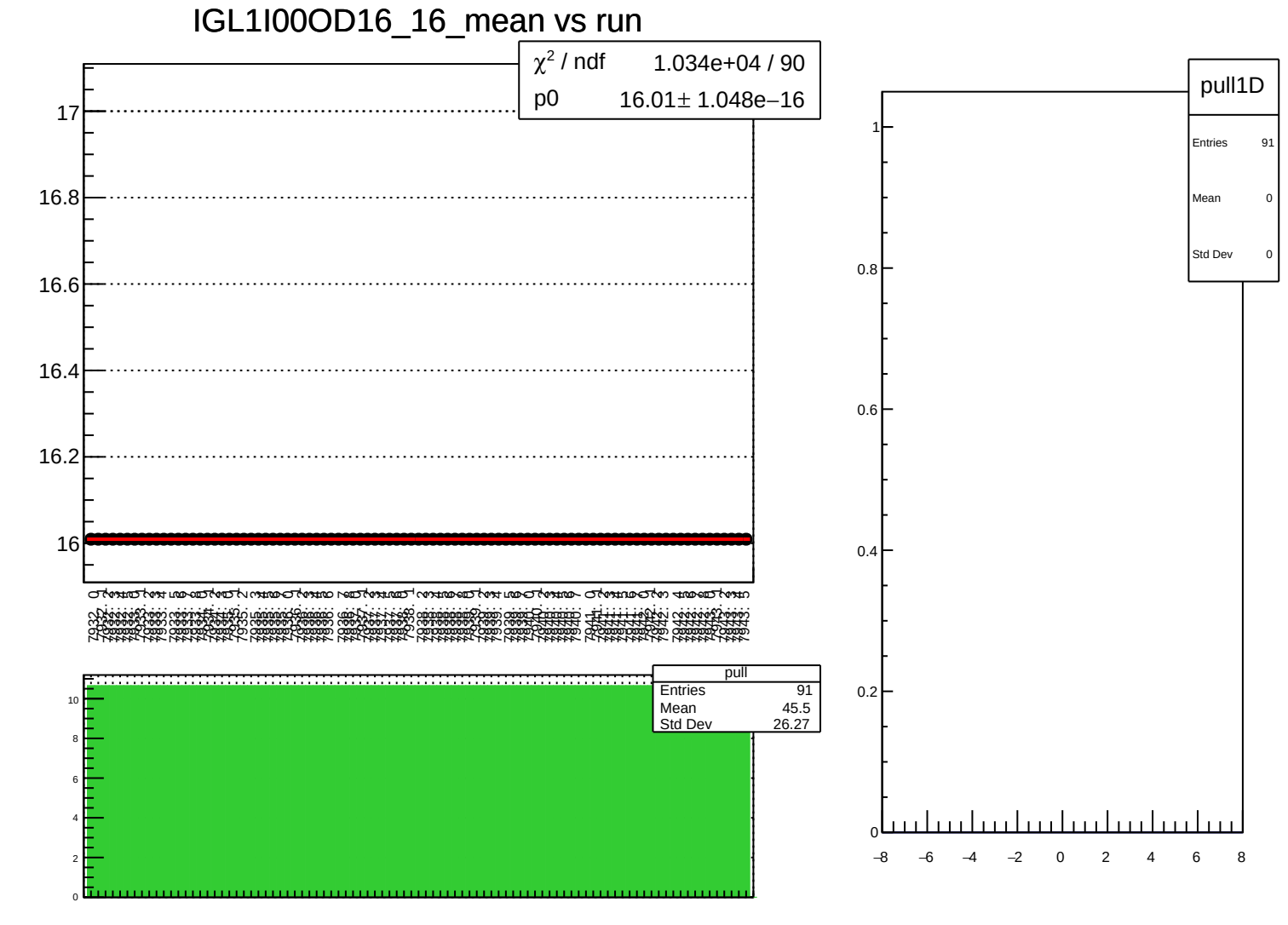

HWienAngle_mean vs run
χ² / ndf 4.146e+05 / 90
p0 −29.64 ± 1.048e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
−60
−70

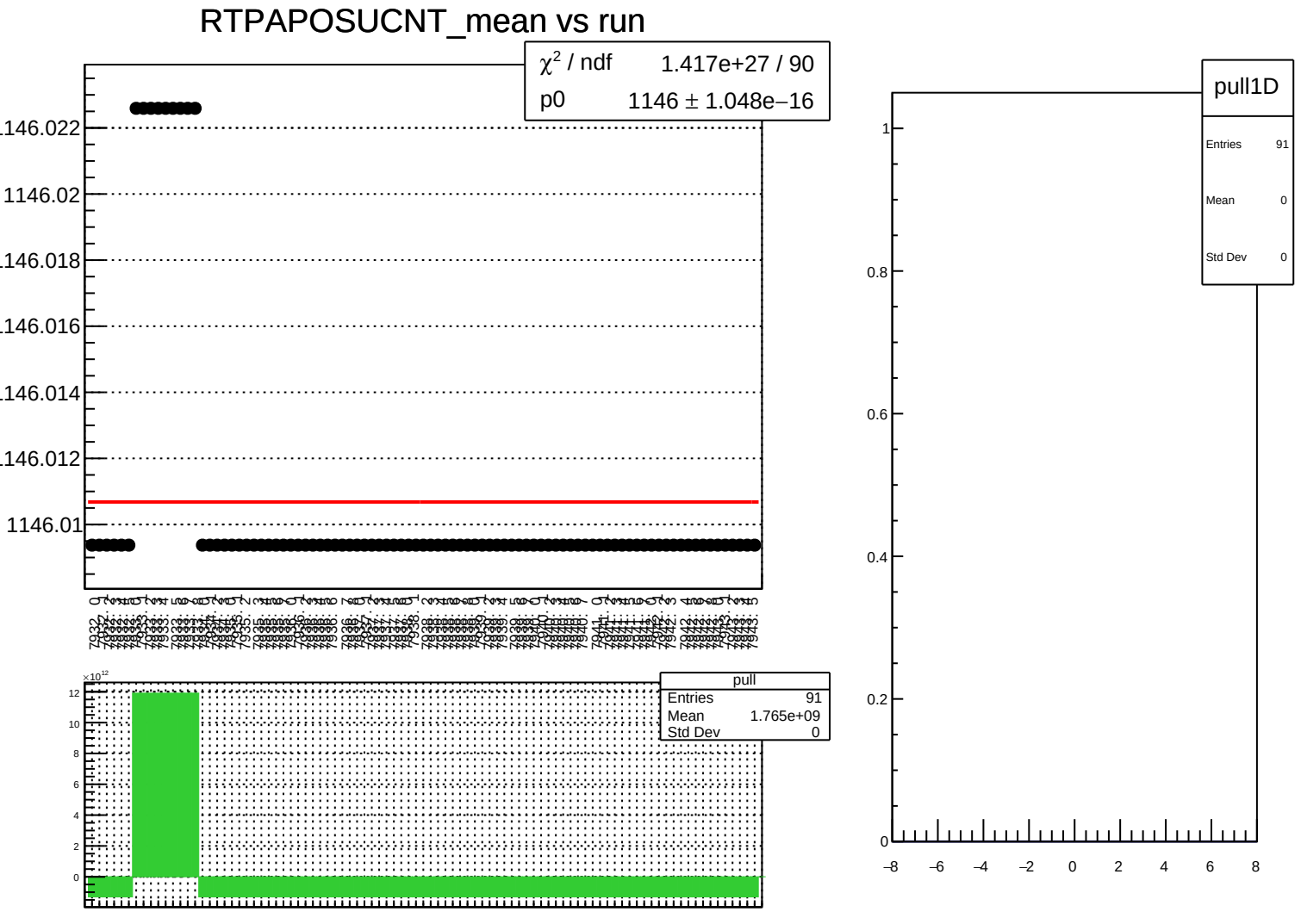

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

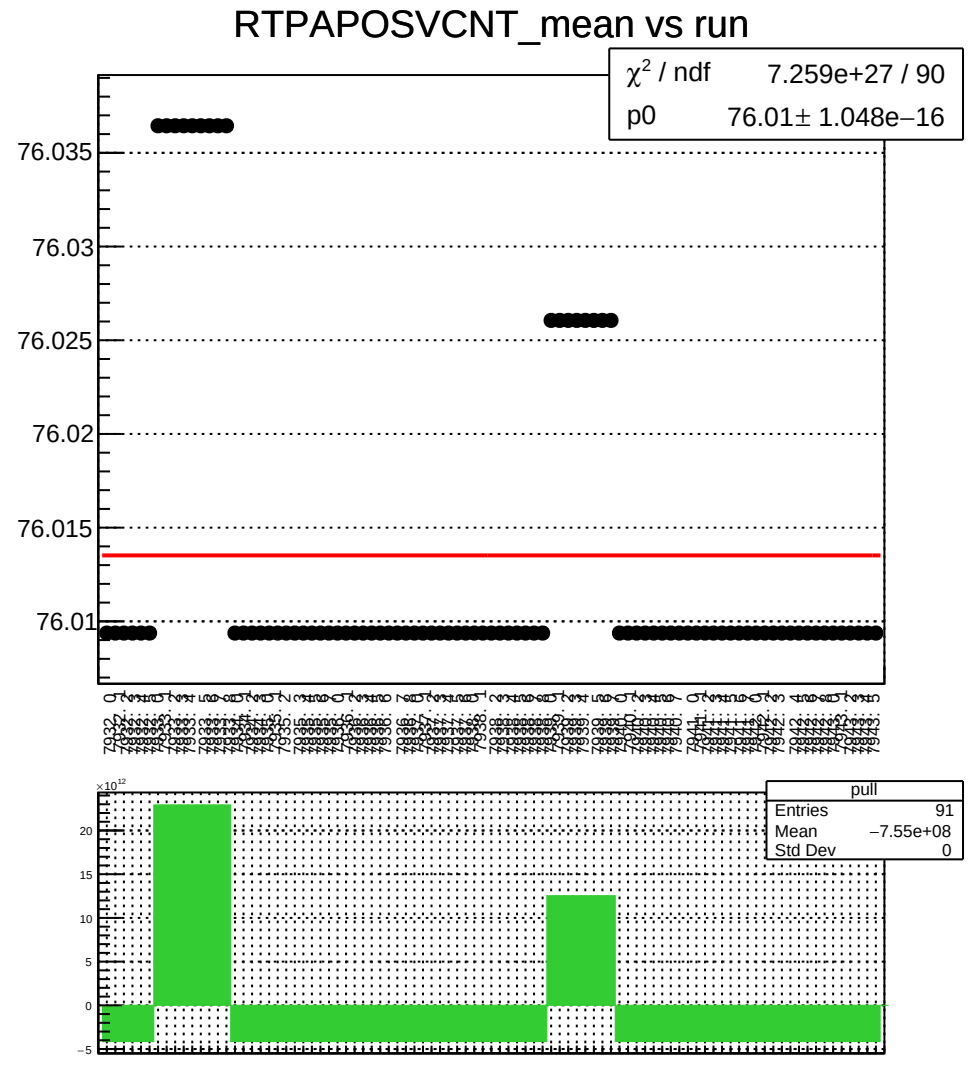

psub_pl_pos_mean vs run
χ² / ndf 1.882e+09 / 90
p0 1500 ± 1.048e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 91
Mean 45.5
Std Dev 26.27
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

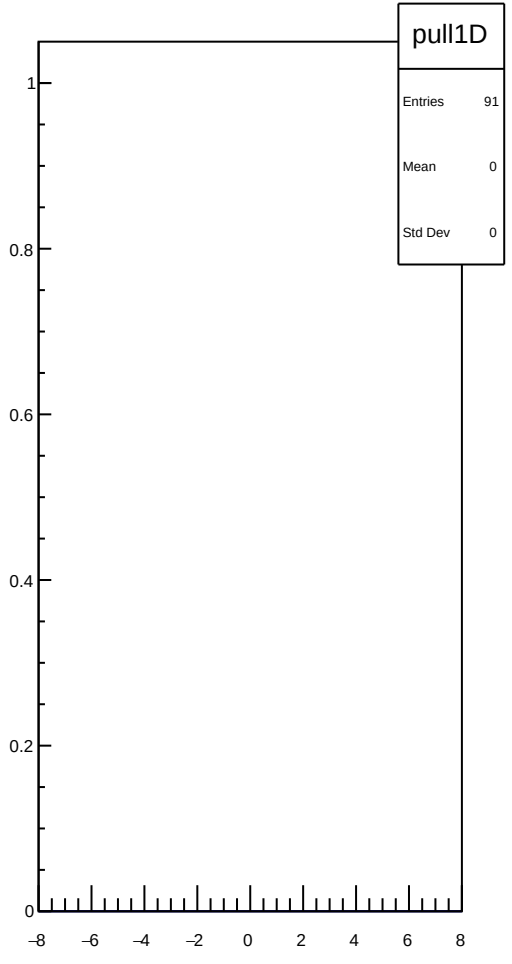

Phi_FG_mean vs run
χ² / ndf 9.005e+05 / 90
p0 89.96 ± 1.048e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 91
Mean 45.5
Std Dev 26.27
100
80
60
40
20
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

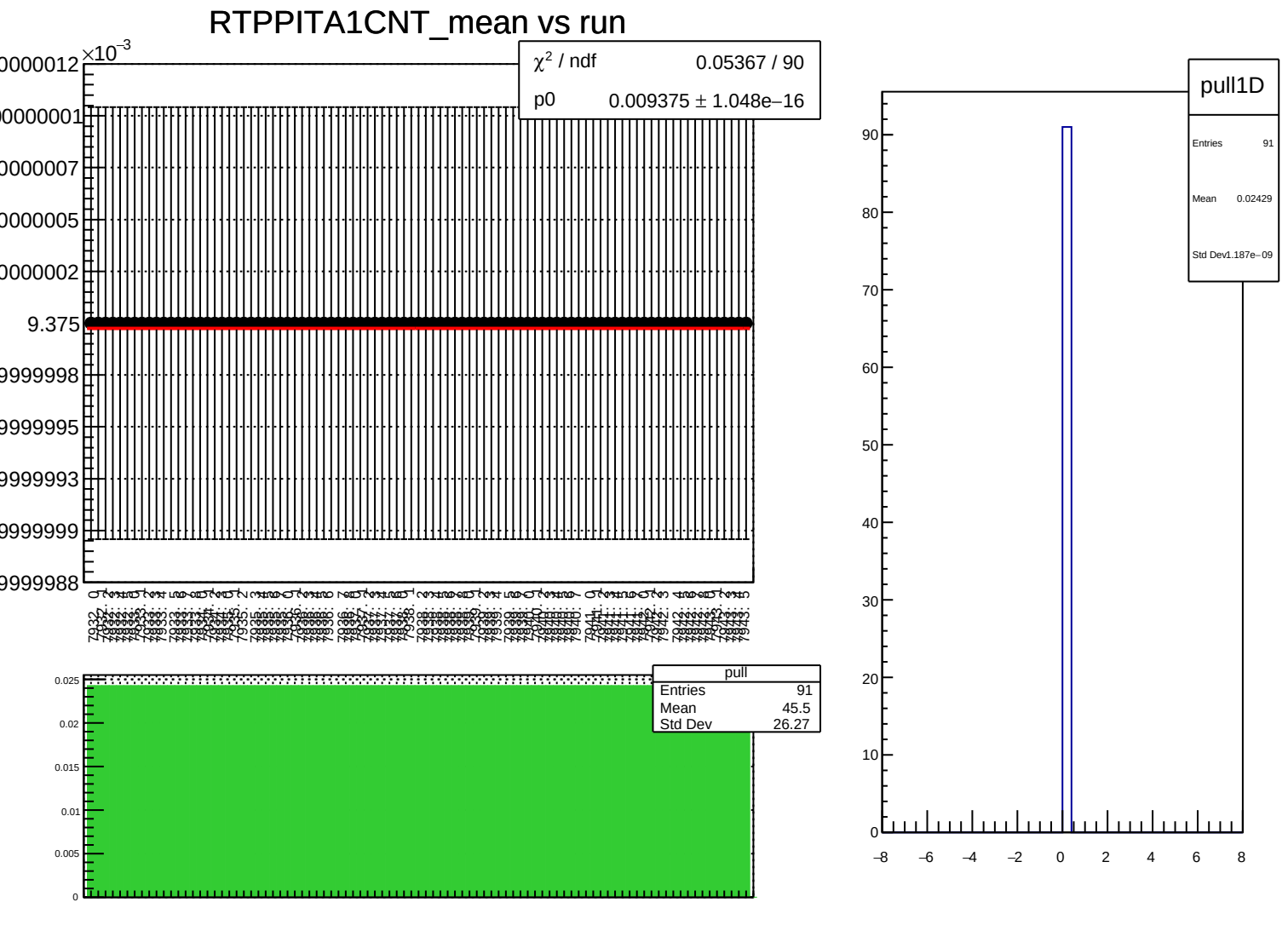

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.135e+04 / 90
p0 17.01± 1.048e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 91
Mean 45.5
Std Dev 26.27
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

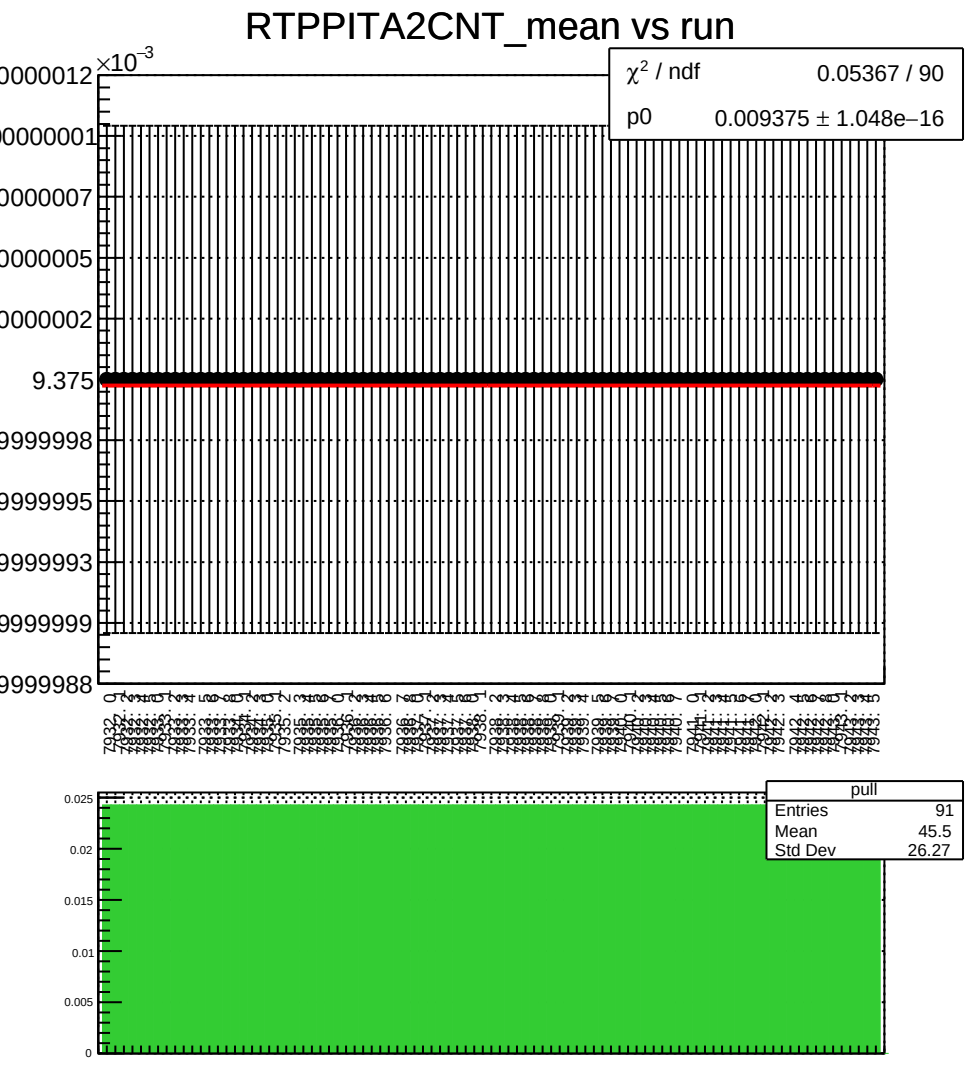

IGL1I00OD16_16_mean vs run
χ² / ndf 1.034e+04 / 90
p0 16.01± 1.048e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 91
Mean 45.5
Std Dev 26.27
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

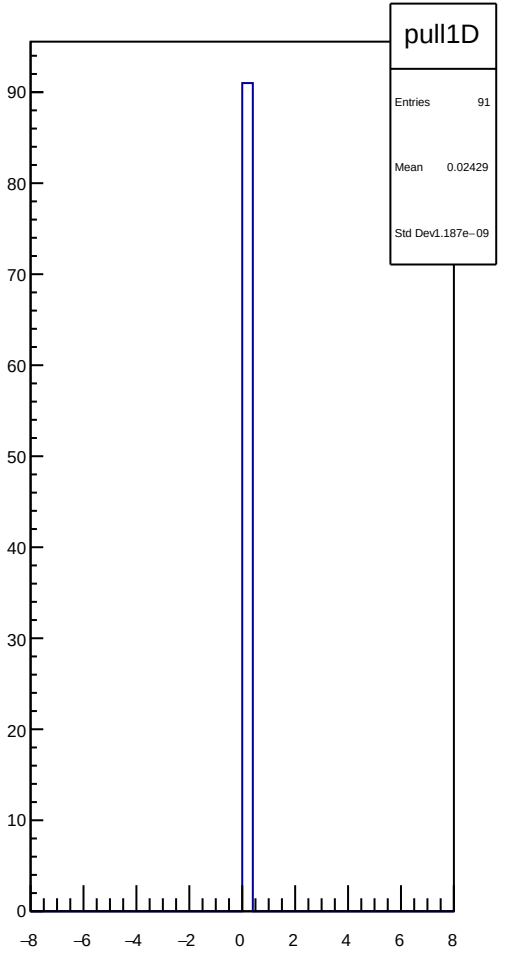

RTPAPOSUCNT_mean vs run
χ² / ndf 1.417e+27 / 90
p0 1146 ± 1.048e−16
1146.022
1146.02
1146.018
1146.016
1146.014
1146.012
1146.01
pull
Entries 91
Mean 1.765e+09
Std Dev 0
×10¹²
12
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 7.259e+27 / 90
p0 76.01± 1.048e−16
76.035
76.03
76.025
76.02
76.015
76.01
pull
Entries 91
Mean −7.55e+08
Std Dev 0
×10¹²
20
15
10
5
0
−5


pull1D
Entries 91
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 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09


RTPPITA2CNT_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
9.375
pull
Entries 91
Mean 45.5
Std Dev 26.27


pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09