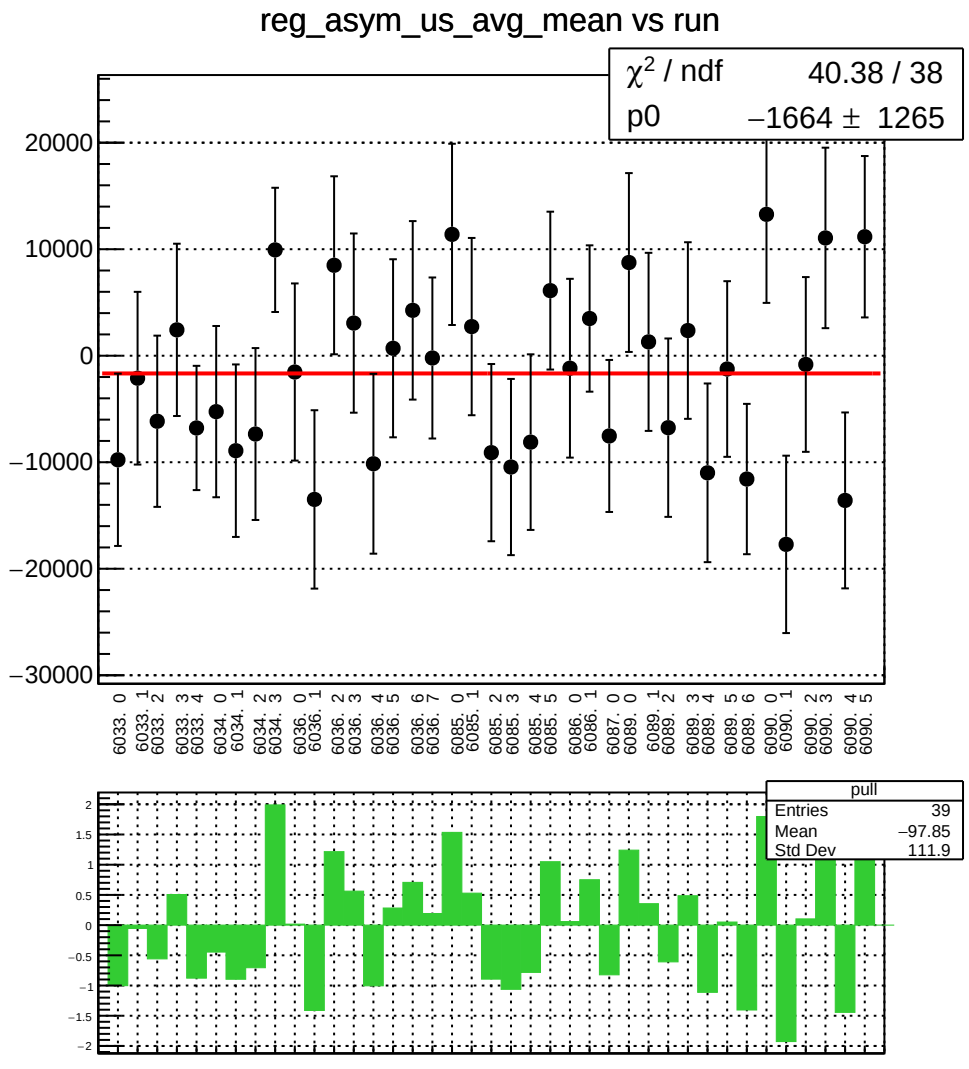
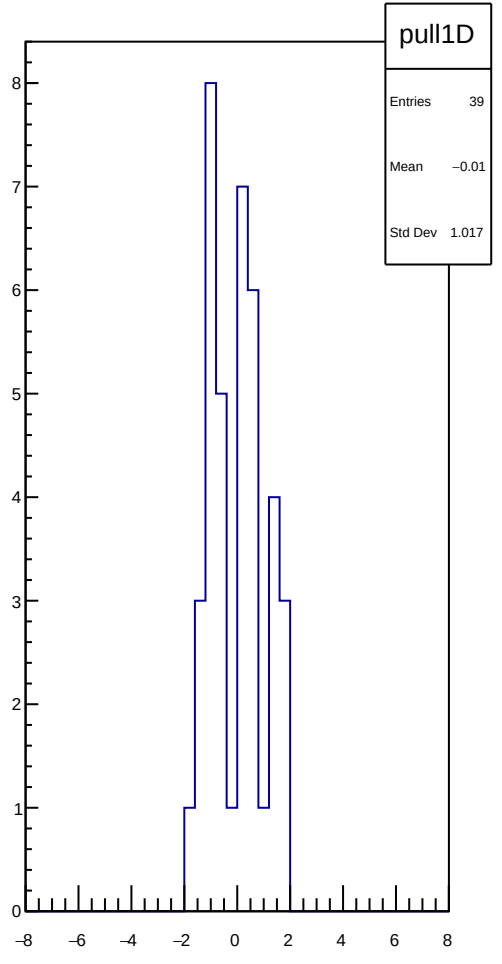
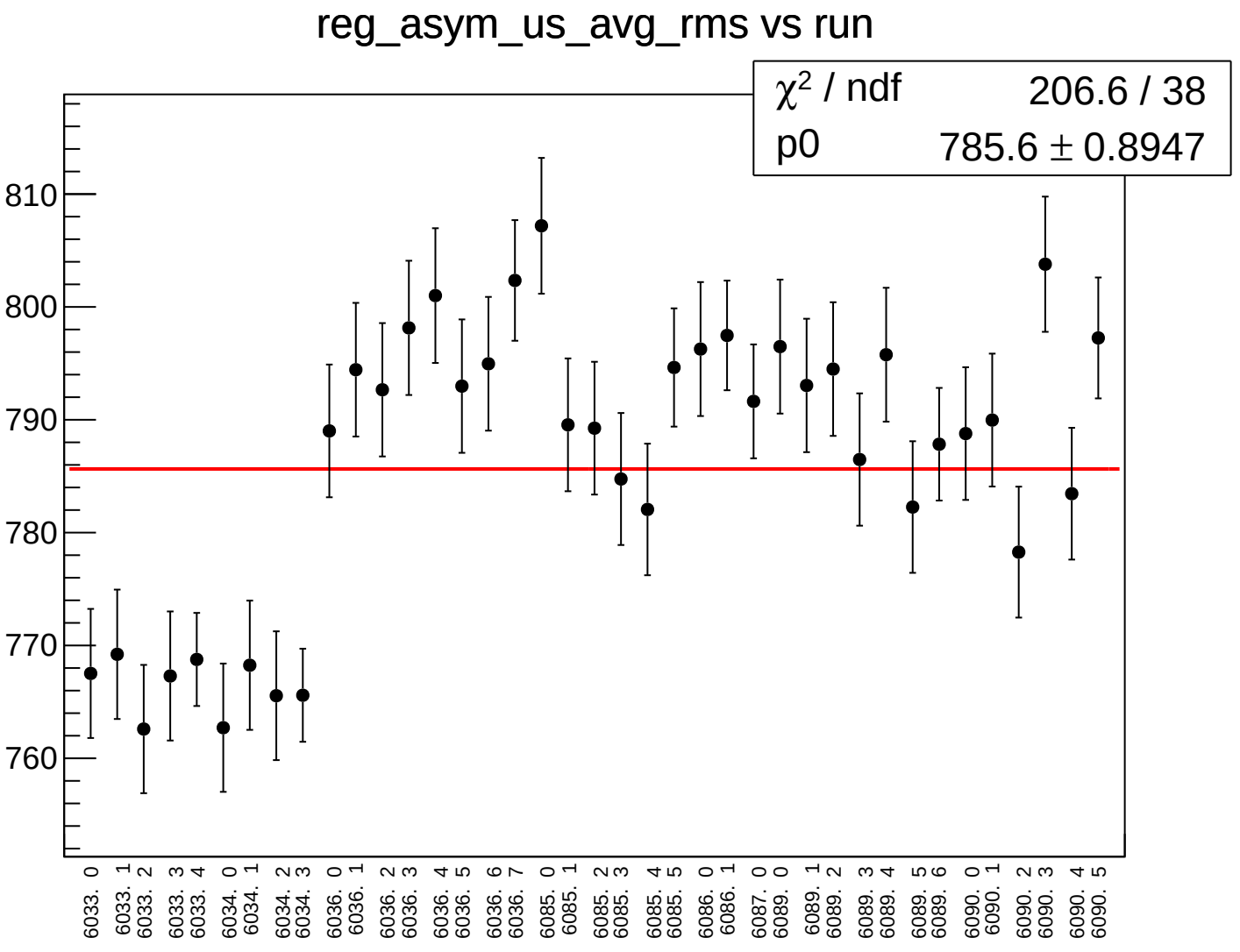
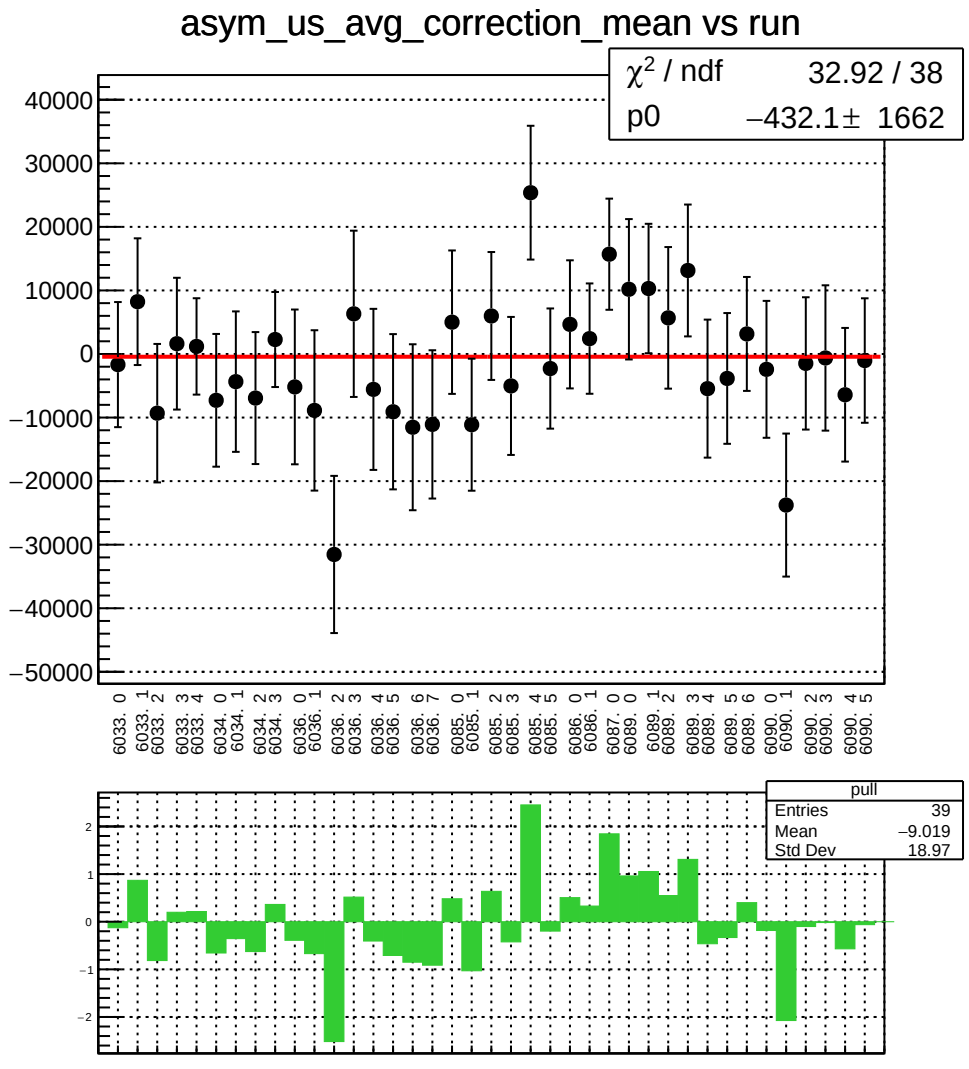
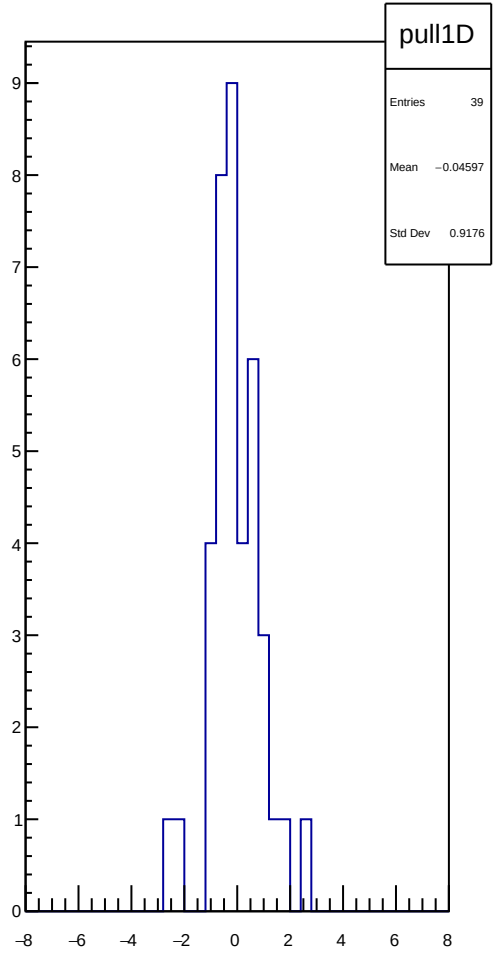
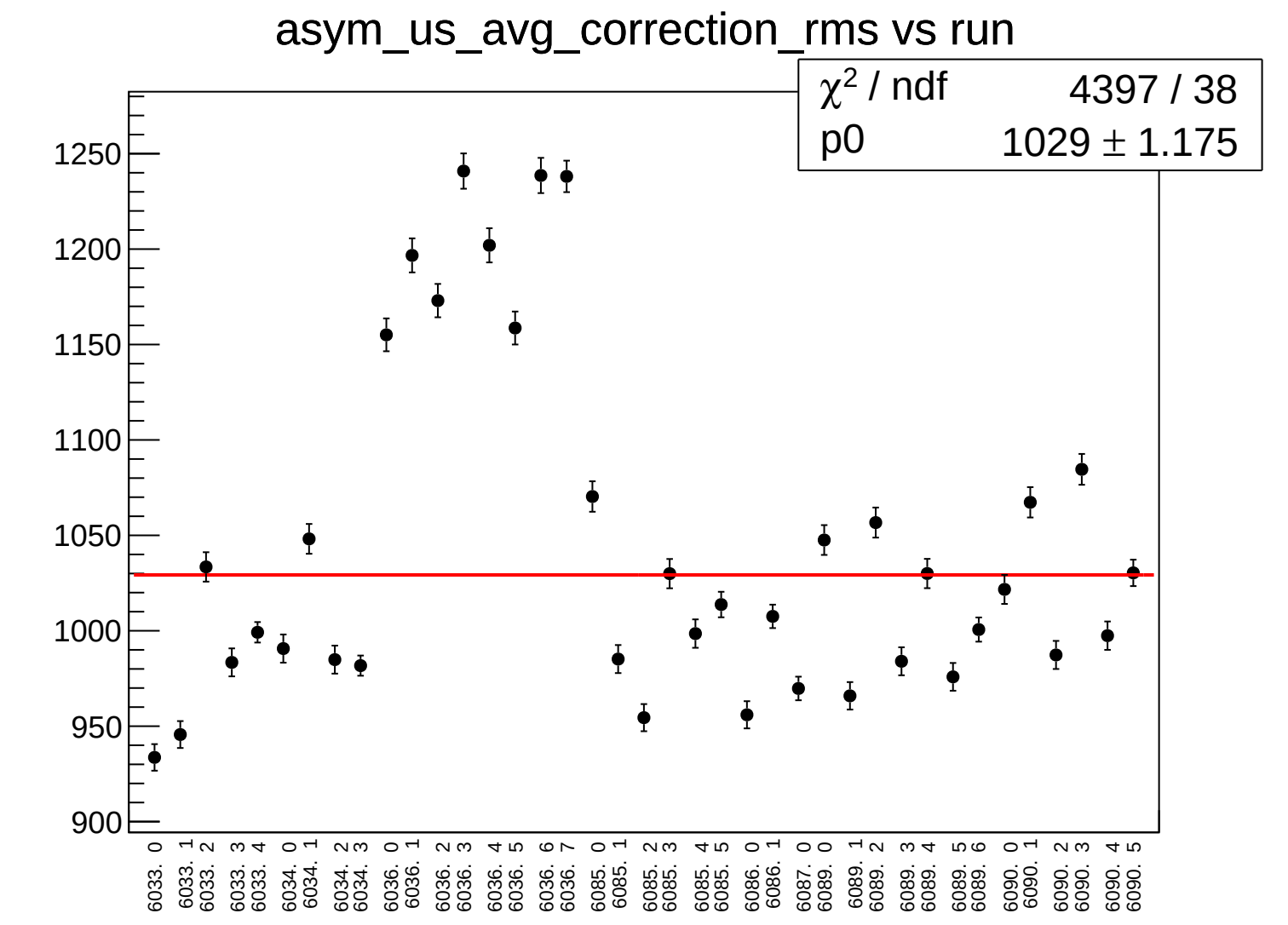

reg_asym_us_avg_mean vs run
χ² / ndf 40.38 / 38
p0 −1664 ± 1265
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −97.85
Std Dev 111.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

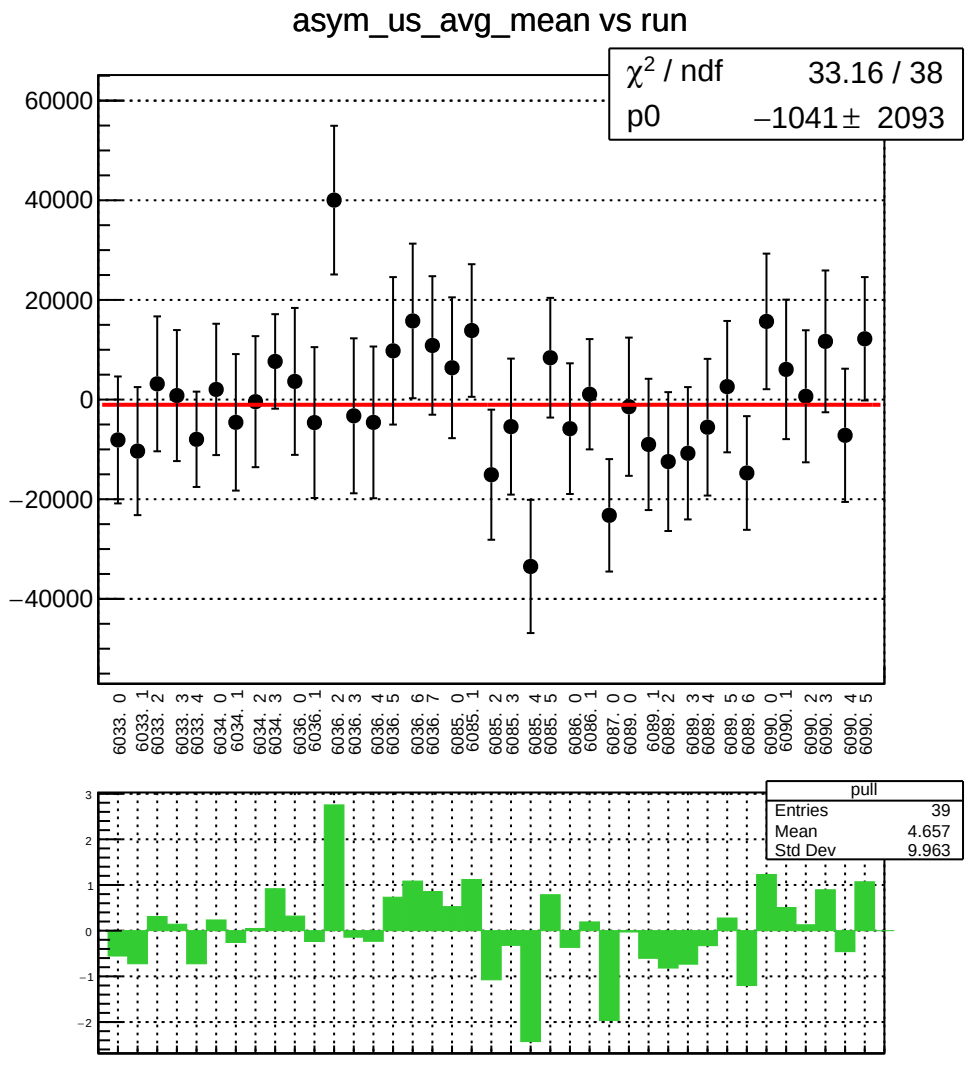

pull1D
Entries 39
Mean −0.01
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

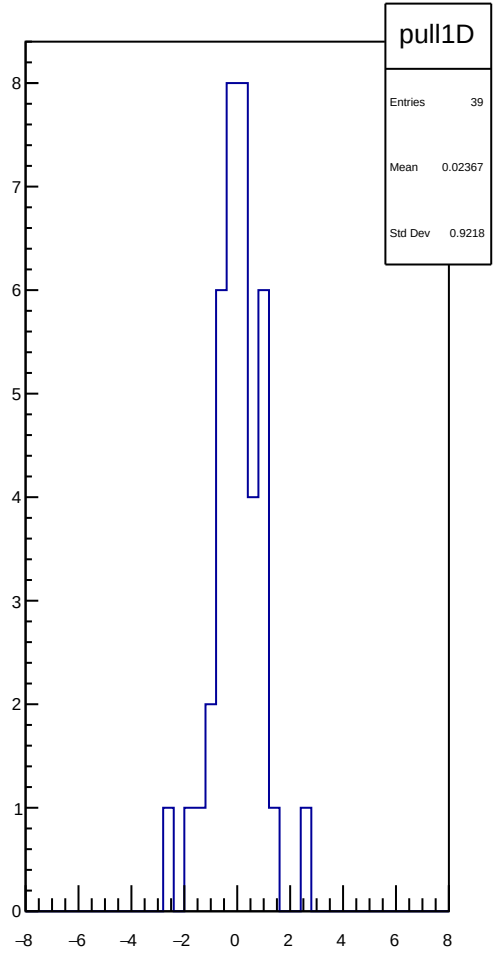

reg_asym_us_avg_rms vs run
χ² / ndf 206.6 / 38
p0 785.6 ± 0.8947
810
800
790
780
770
760
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

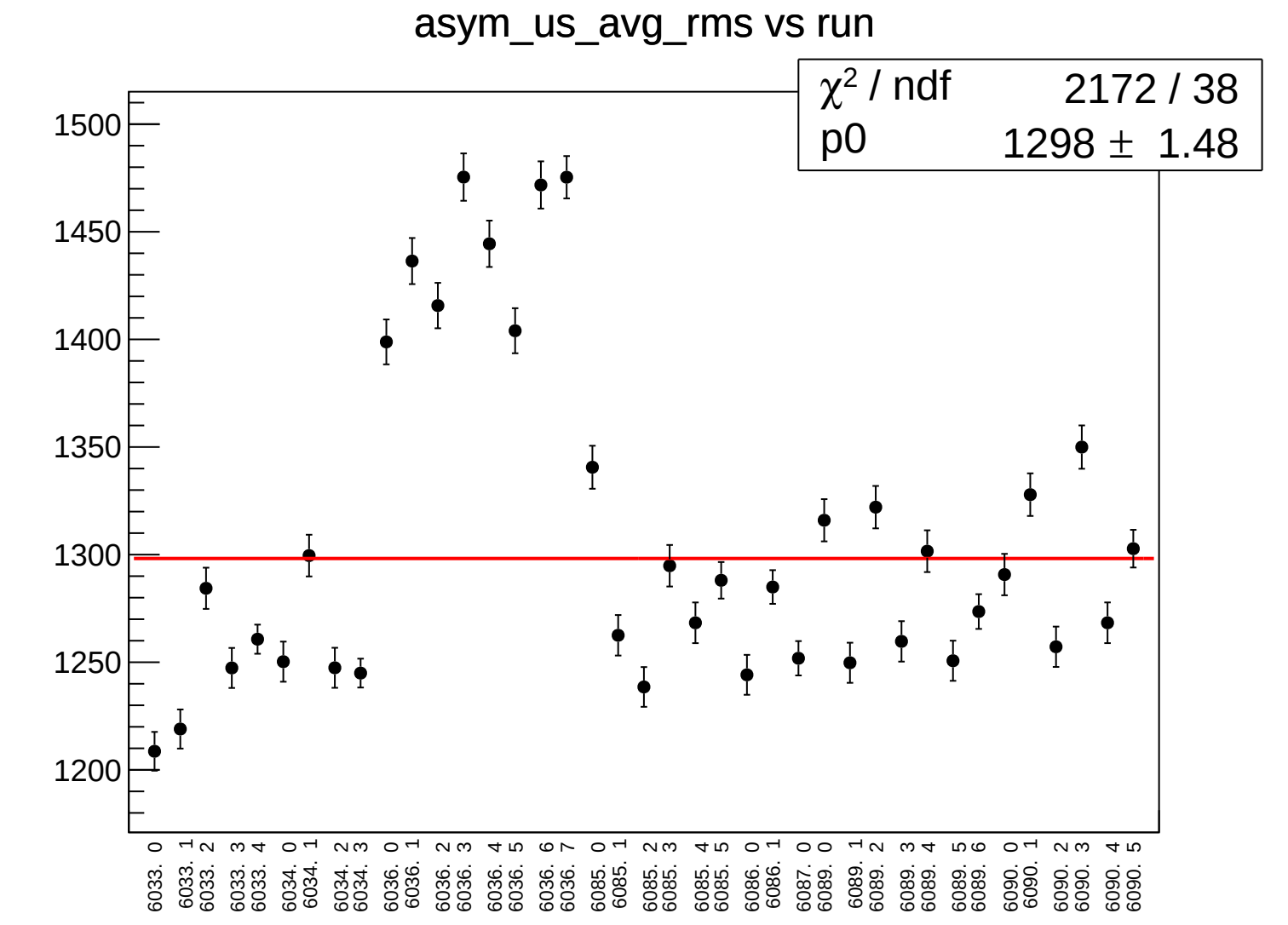

asym_us_avg_correction_mean vs run
χ² / ndf 32.92 / 38
p0 −432.1± 1662
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −9.019
Std Dev 18.97
2
1
0
−1
−2

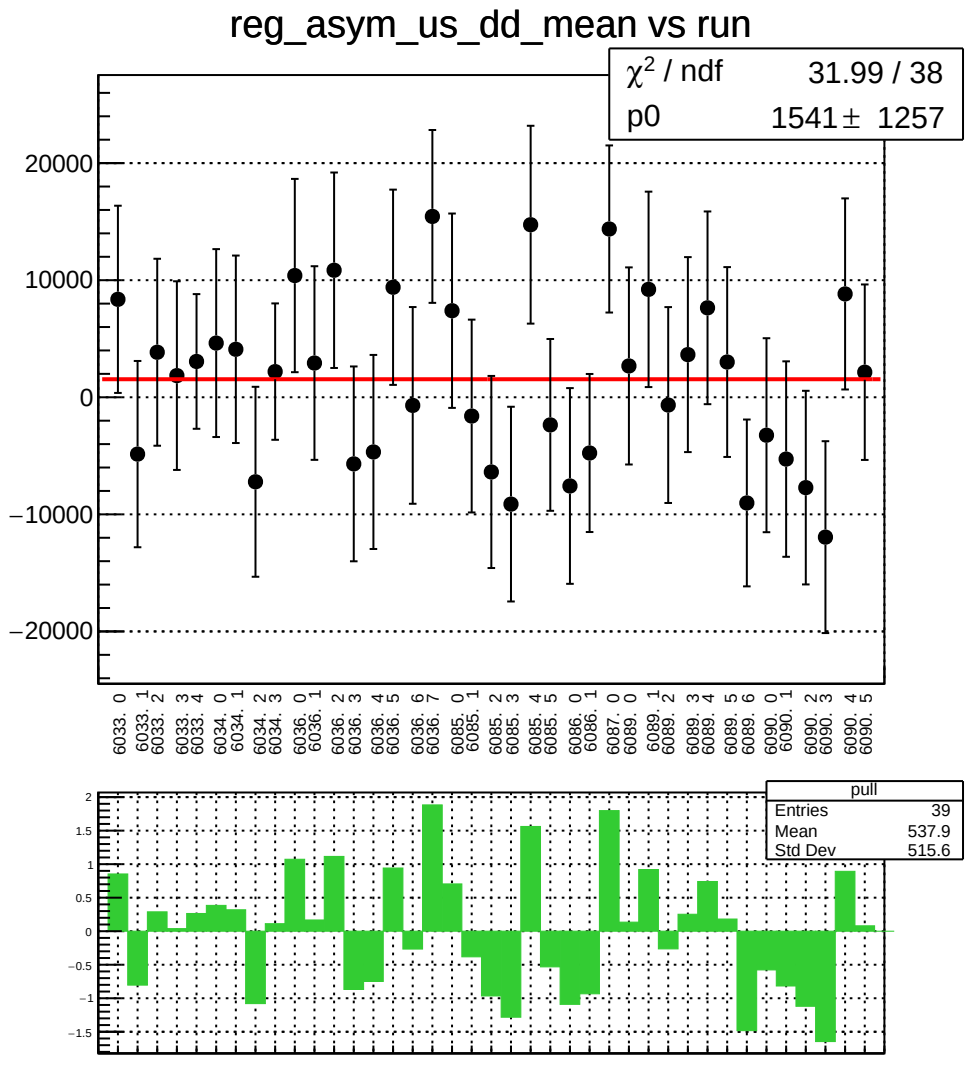

pull1D
Entries 39
Mean −0.04597
Std Dev 0.9176
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

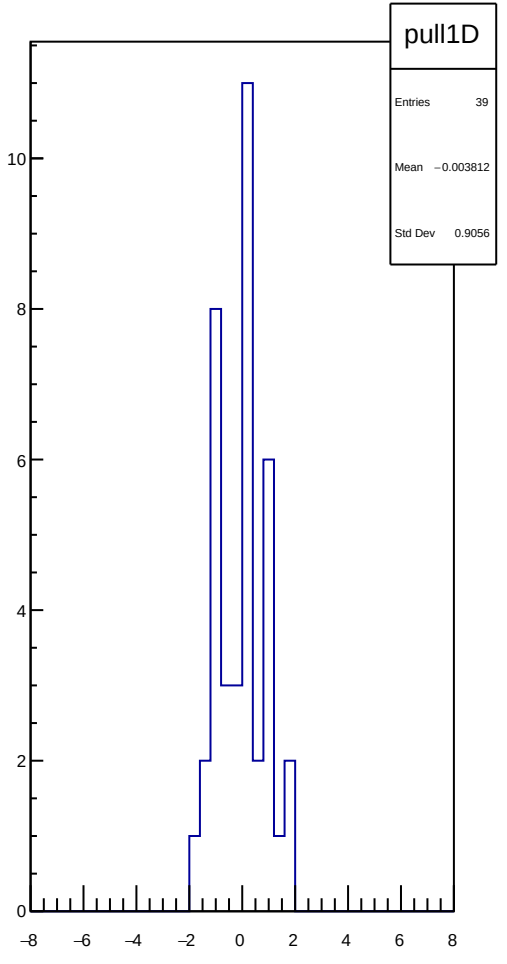

asym_us_avg_correction_rms vs run
χ² / ndf 4397 / 38
p0 1029 ± 1.175
1250
1200
1150
1100
1050
1000
950
900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

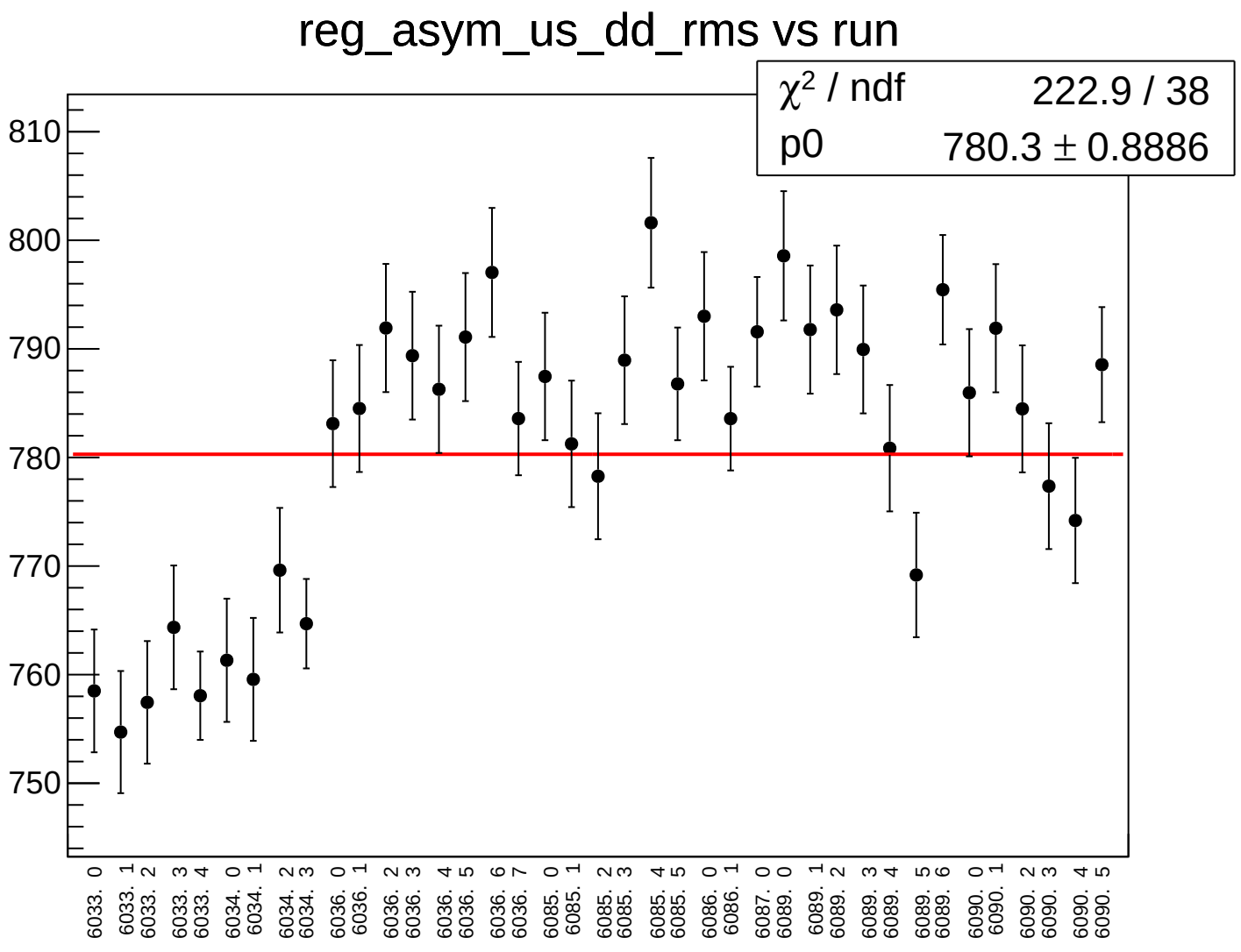

asym_us_avg_mean vs run
χ² / ndf 33.16 / 38
p0 −1041 ± 2093
60000
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 4.657
Std Dev 9.963
3
2
1
0
−1
−2

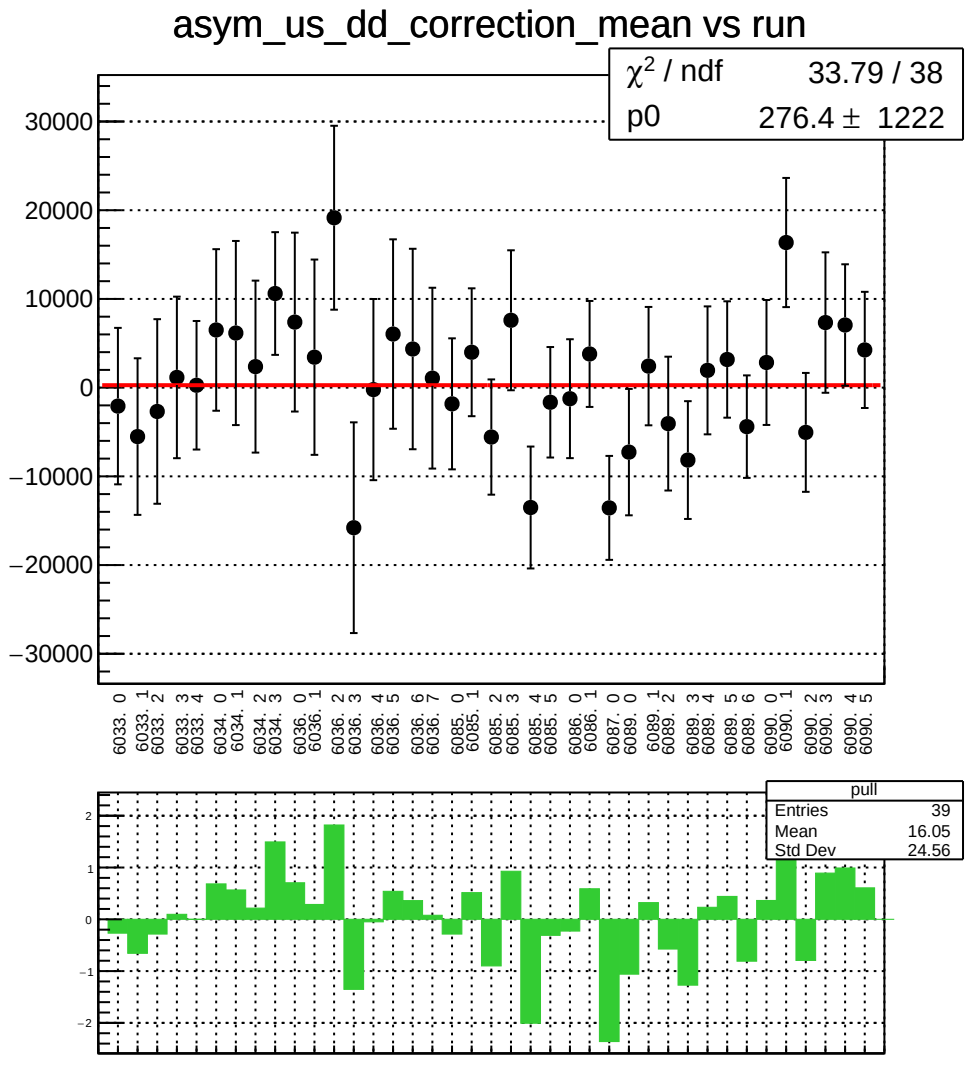

pull1D
Entries 39
Mean 0.02367
Std Dev 0.9218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

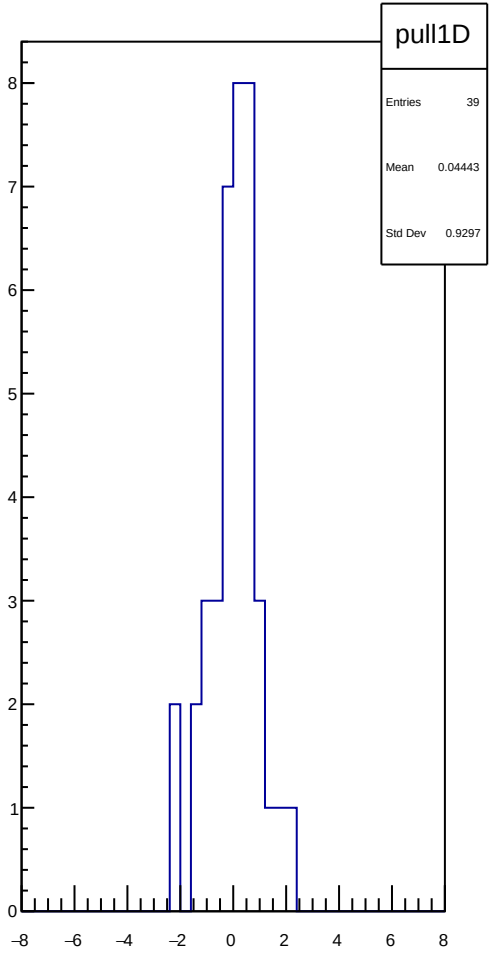

asym_us_avg_rms vs run
χ² / ndf 2172 / 38
p0 1298 ± 1.48
1500
1450
1400
1350
1300
1250
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

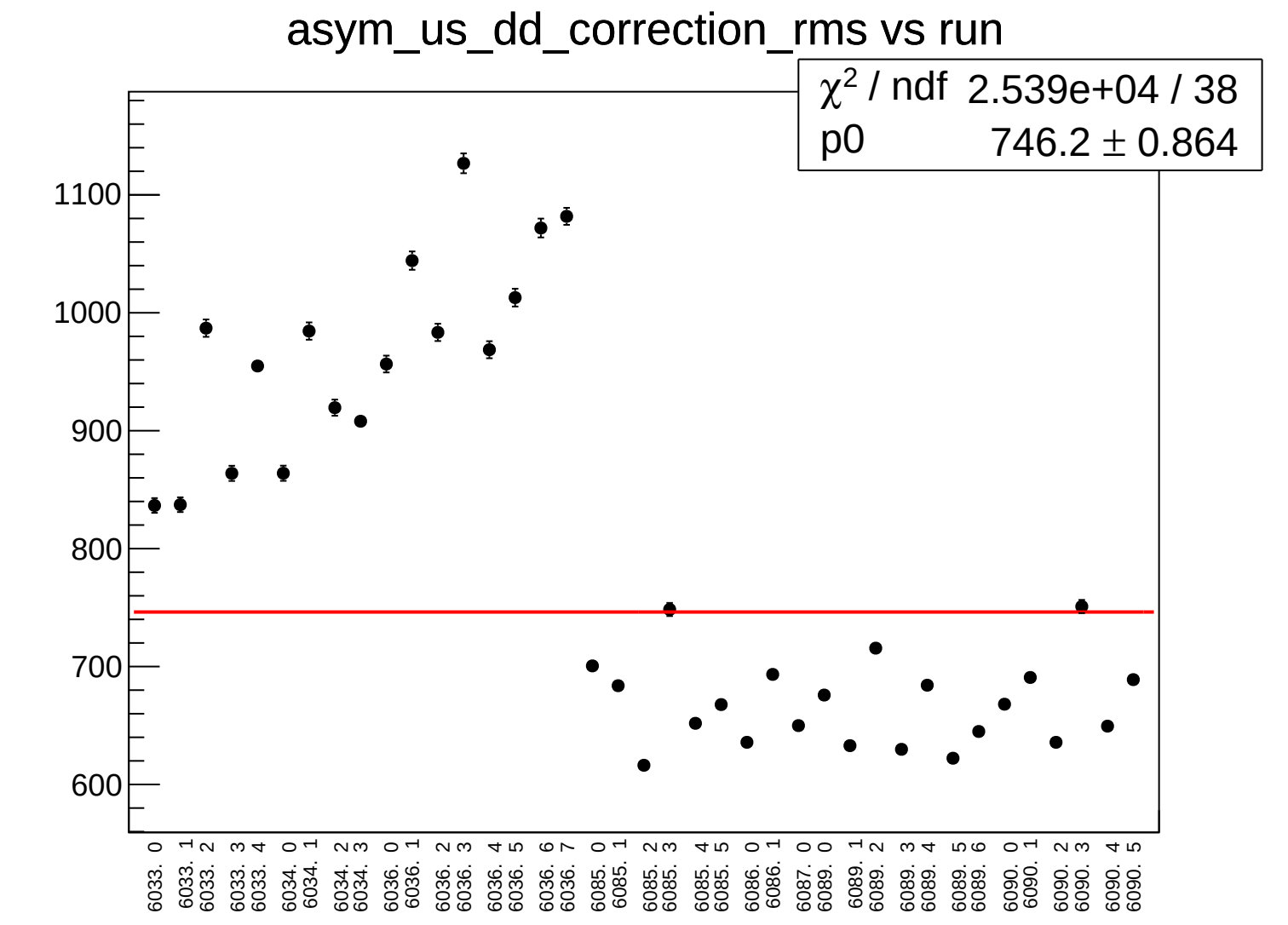

reg_asym_us_dd_mean vs run
χ2 / ndf 31.99 / 38
p0 1541 ± 1257
20000
10000
0
−10000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 537.9
Std Dev 515.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

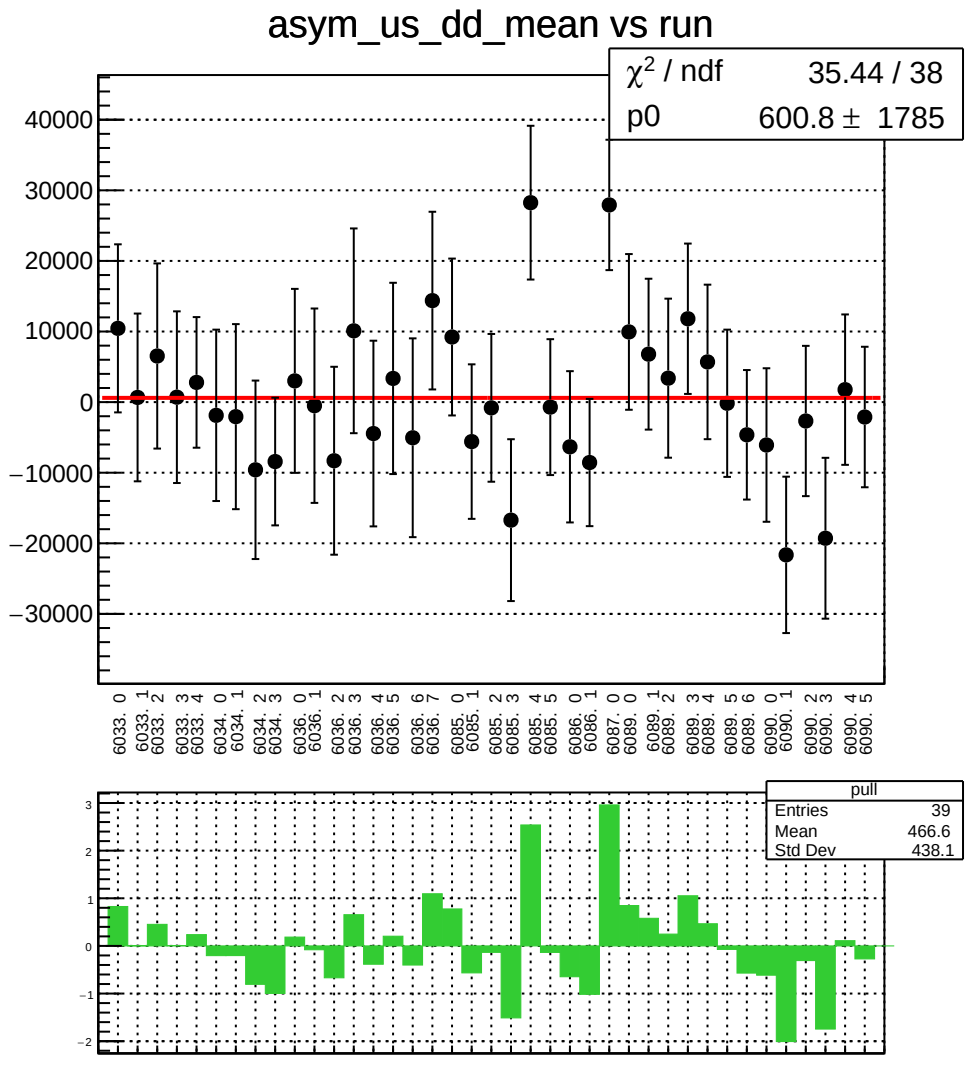

pull1D
Entries 39
Mean −0.003812
Std Dev 0.9056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

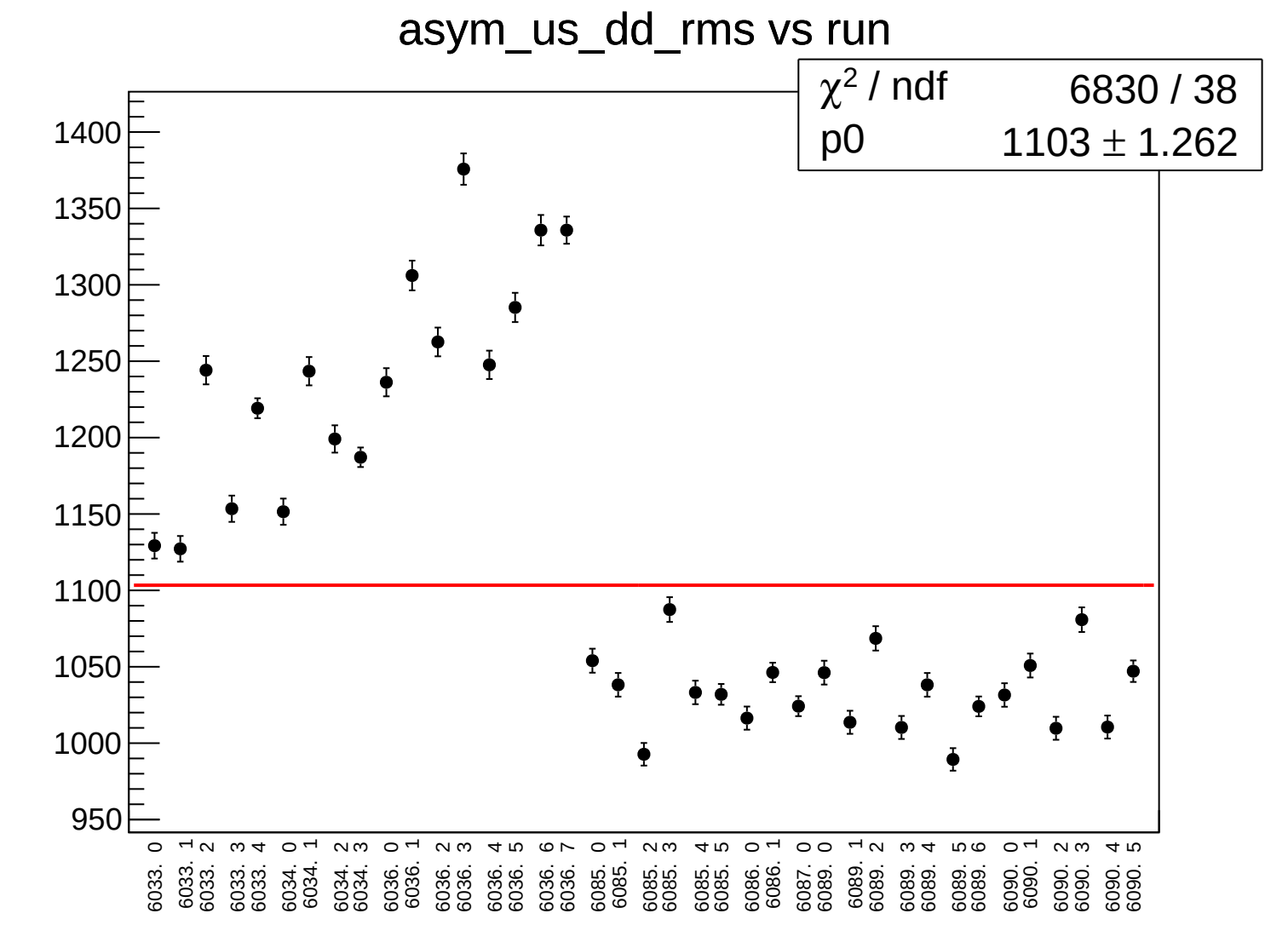

reg_asym_us_dd_rms vs run
χ² / ndf 222.9 / 38
p0 780.3 ± 0.8886
810
800
790
780
770
760
750
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

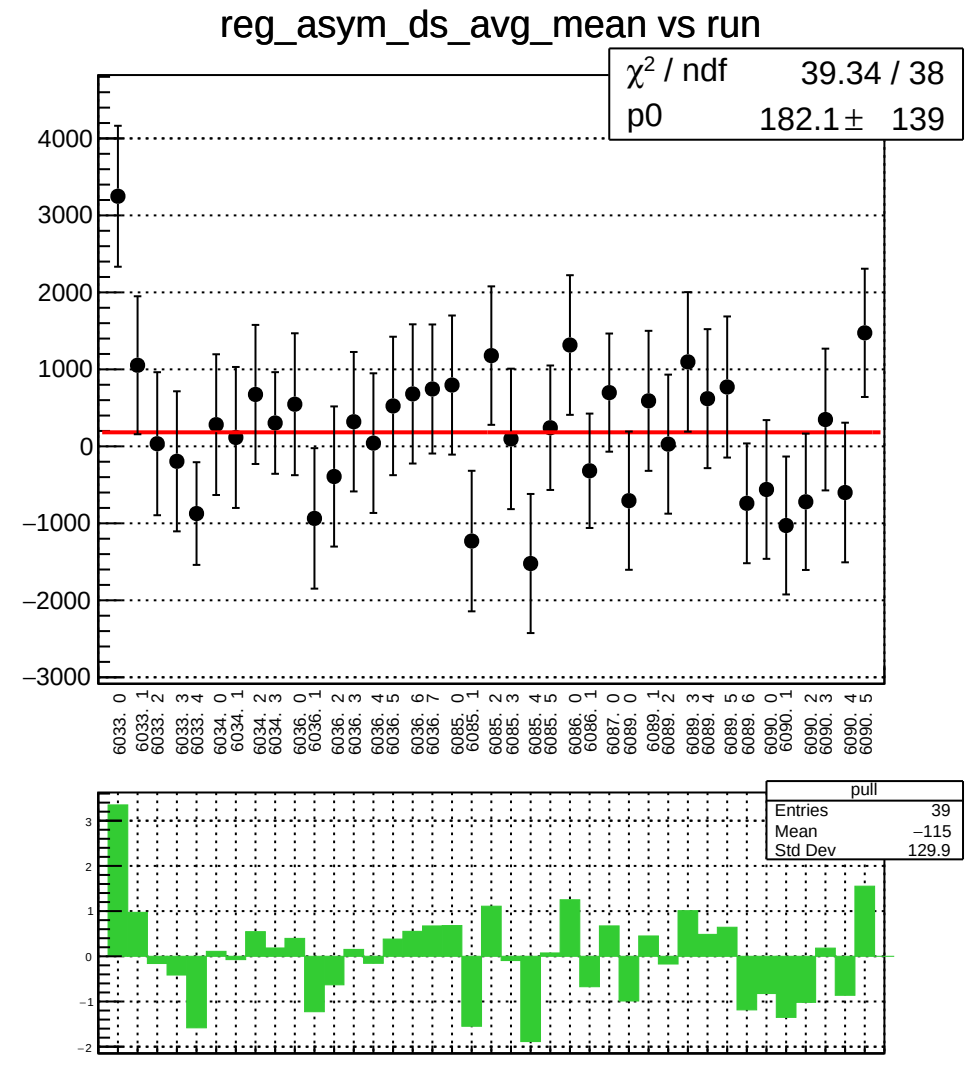

asym_us_dd_correction_mean vs run
χ² / ndf 33.79 / 38
p0 276.4 ± 1222
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 16.05
Std Dev 24.56
2
1
0
−1
−2

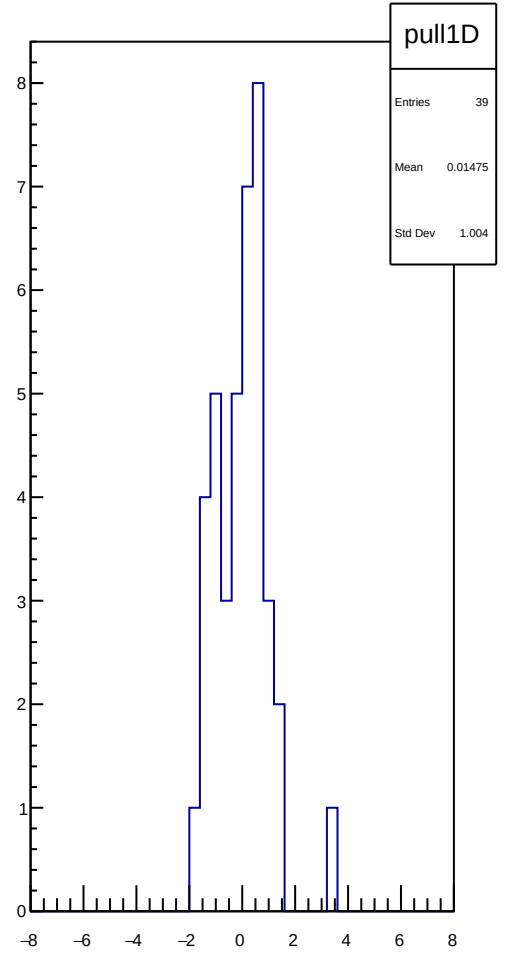

pull1D
Entries 39
Mean 0.04443
Std Dev 0.9297
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

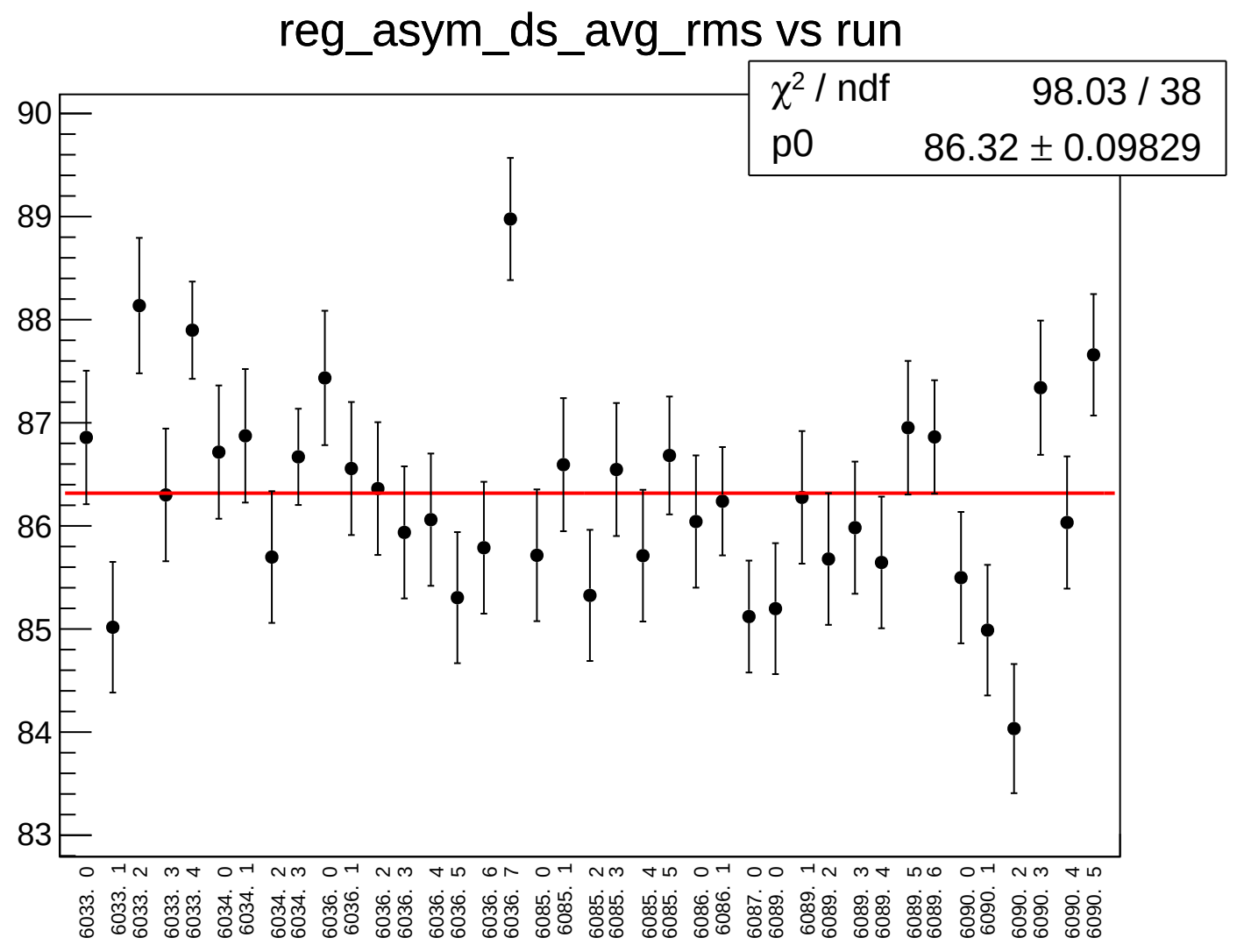

asym_us_dd_correction_rms vs run
χ² / ndf 2.539e+04 / 38
p0 746.2 ± 0.864
1100
1000
900
800
700
600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

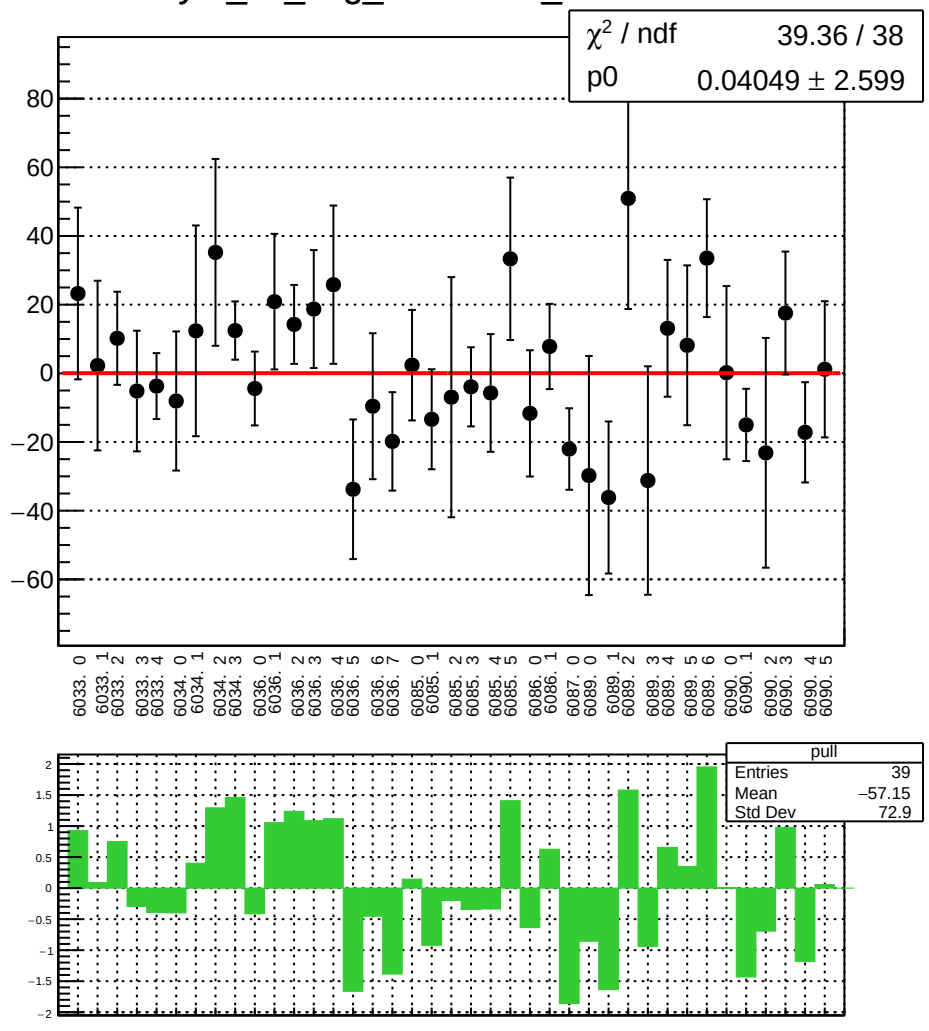

asym_us_dd_mean vs run
χ² / ndf 35.44 / 38
p0 600.8 ± 1785
40000
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 466.6
Std Dev 438.1
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.002632
Std Dev 0.9533
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

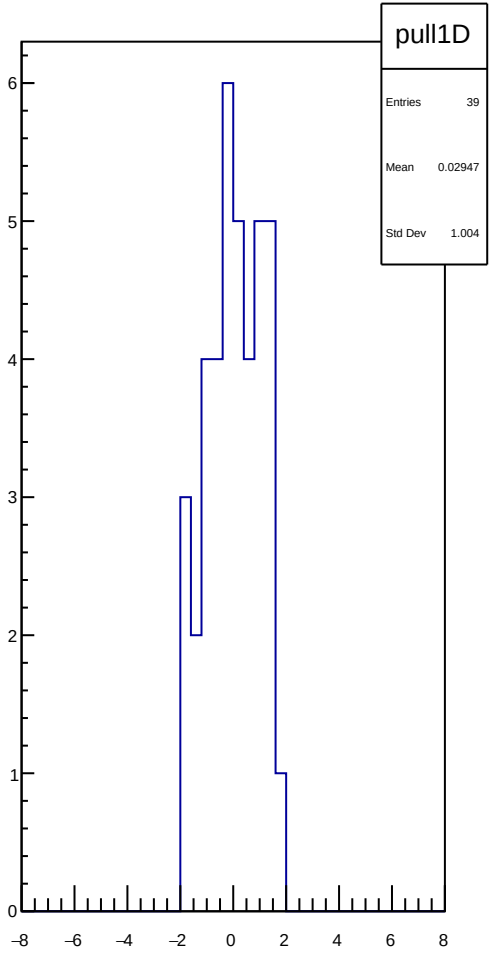

asym_us_dd_rms vs run
χ² / ndf 6830 / 38
p0 1103 ± 1.262
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

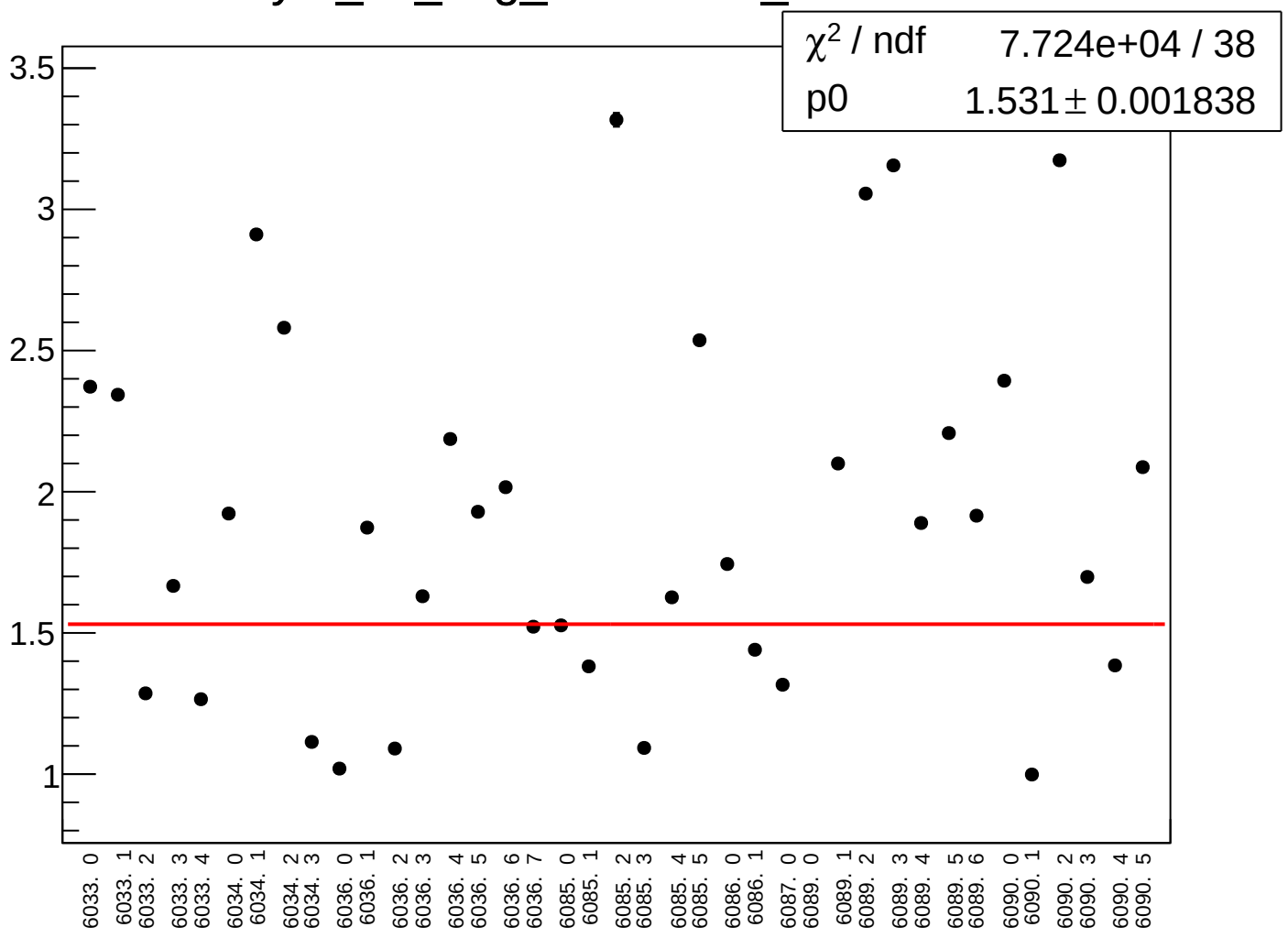

reg_asym_ds_avg_mean vs run
χ² / ndf 39.34 / 38
p0 182.1 ± 139
4000
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −115
Std Dev 129.9
3
2
1
0
−1
−2

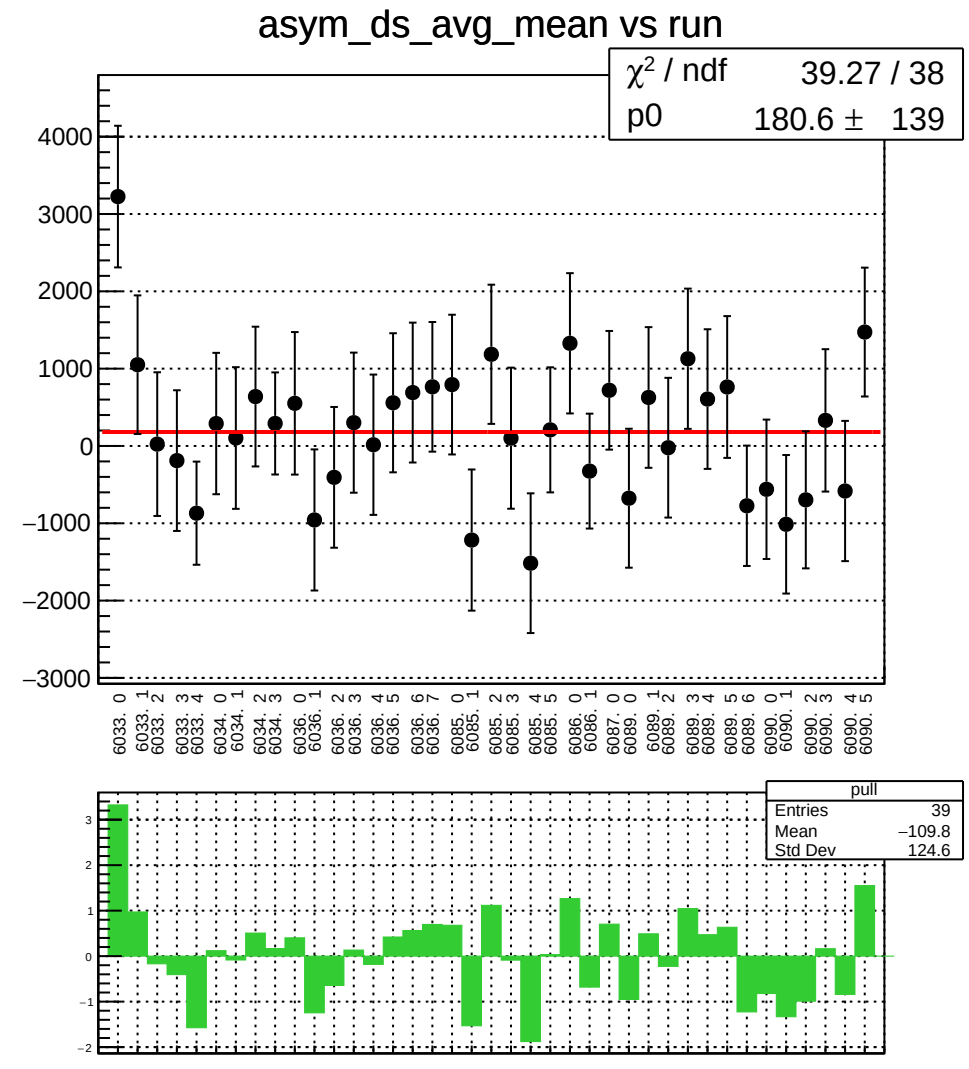

pull1D
Entries 39
Mean 0.01475
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

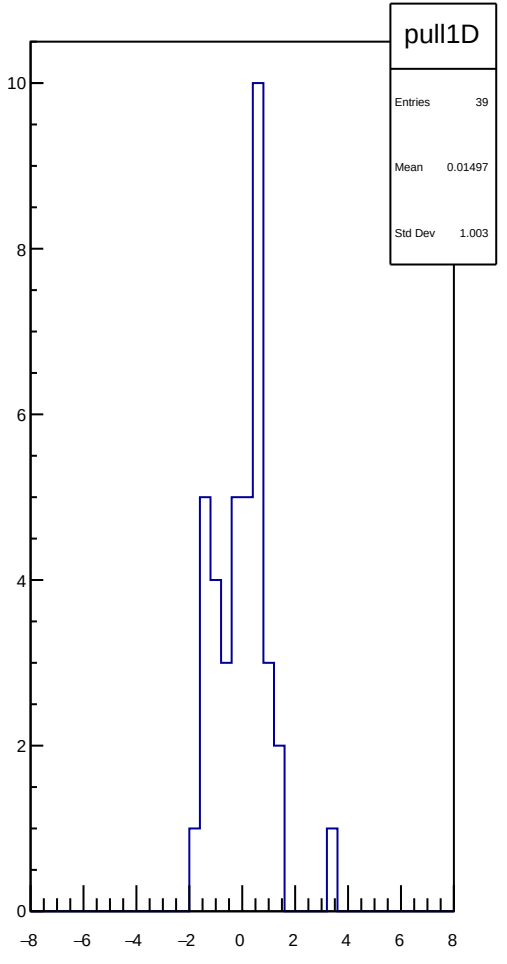

reg_asym_ds_avg_rms vs run
χ^2 / ndf 98.03 / 38
p0 86.32 ± 0.09829
90
89
88
87
86
85
84
83
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

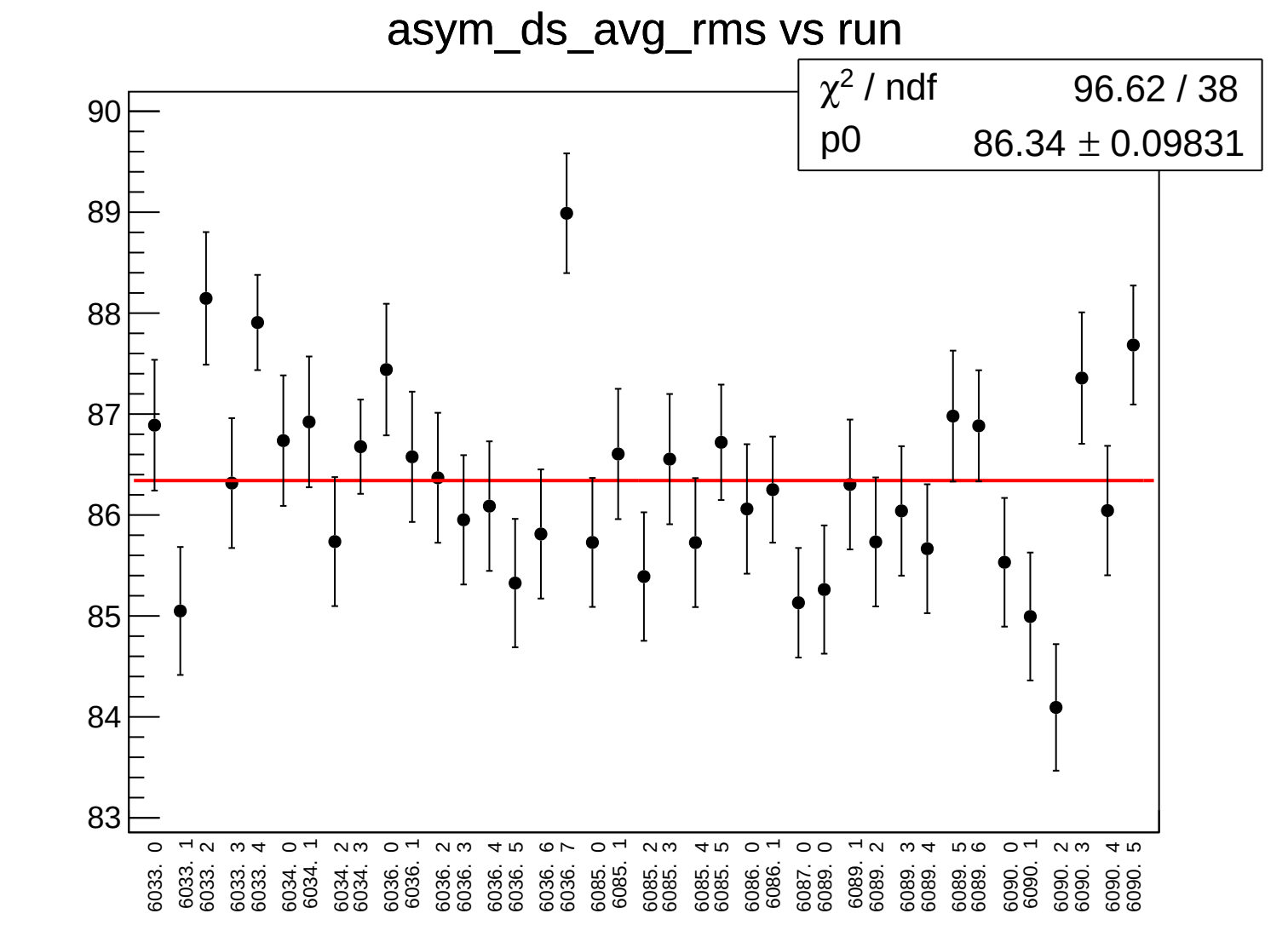

asym_ds_avg_correction_mean vs run
χ² / ndf 39.36 / 38
p0 0.04049 ± 2.599
pull
Entries 39
Mean −57.15
Std Dev 72.9

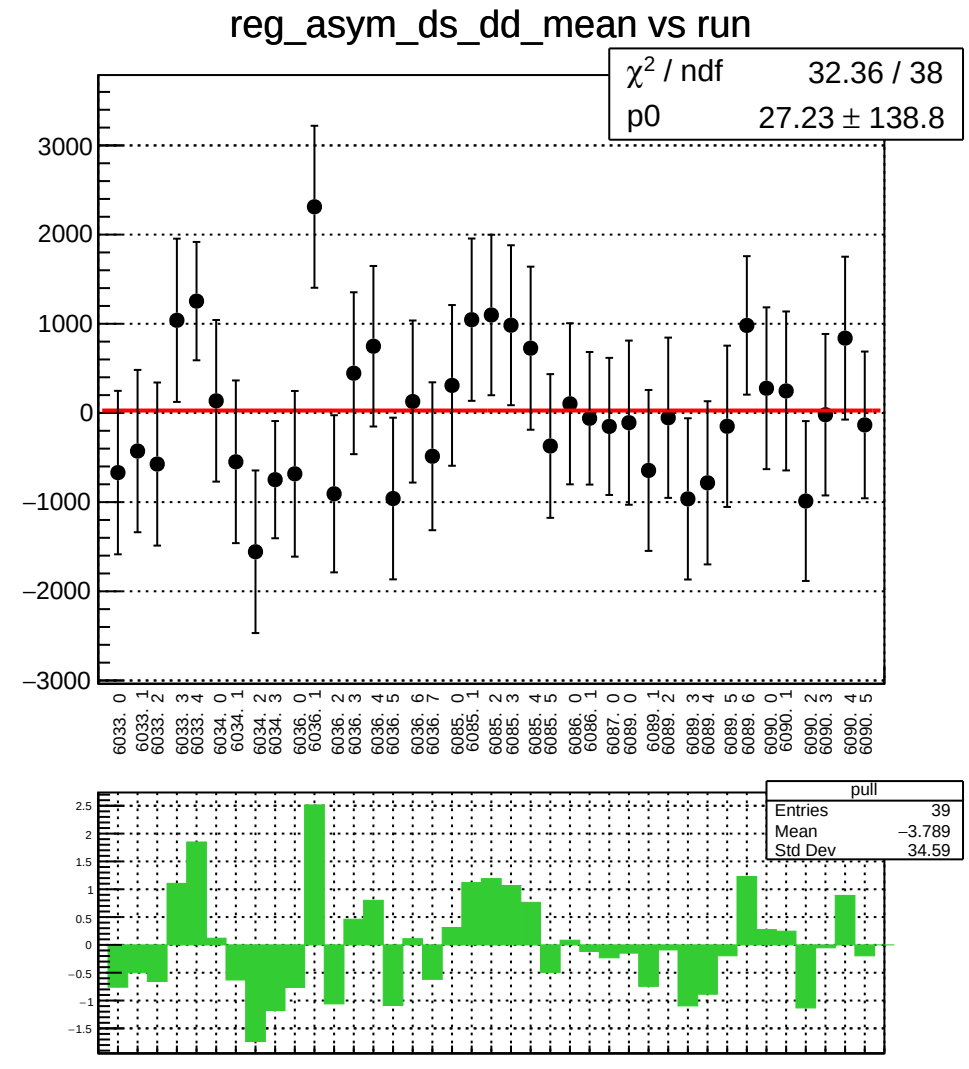

pull1D
Entries 39
Mean 0.02947
Std Dev 1.004

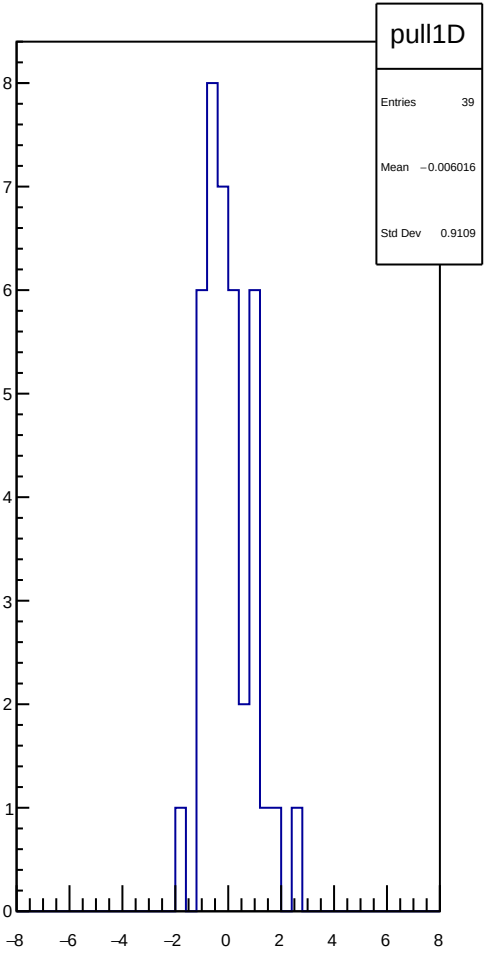

asym_ds_avg_correction_rms vs run
χ² / ndf 7.724e+04 / 38
p0 1.531 ± 0.001838
3.5
3
2.5
2
1.5
1
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

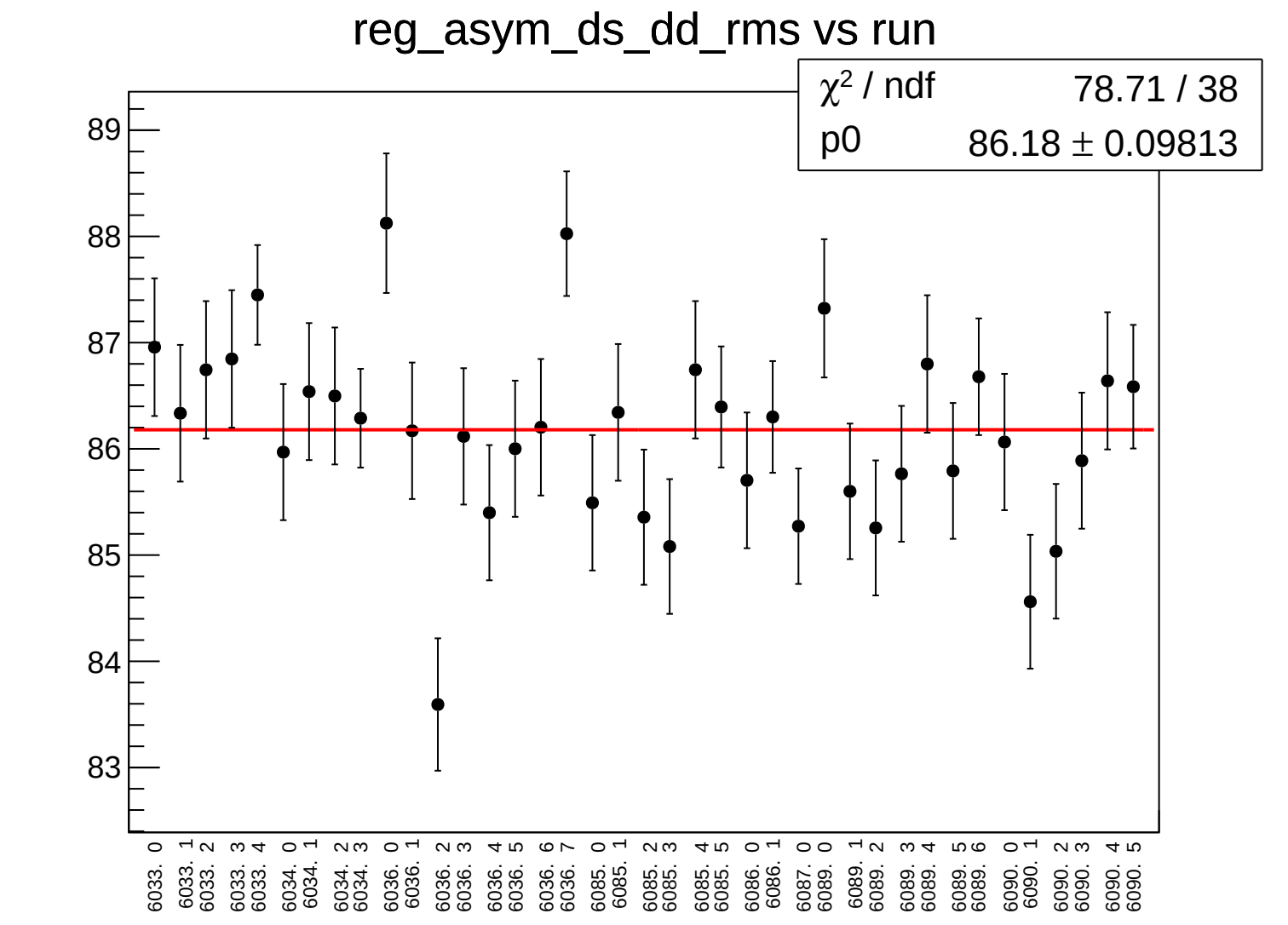

asym_ds_avg_mean vs run
χ² / ndf 39.27 / 38
p0 180.6 ± 139
4000
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −109.8
Std Dev 124.6
3
2
1
0
−1
−2

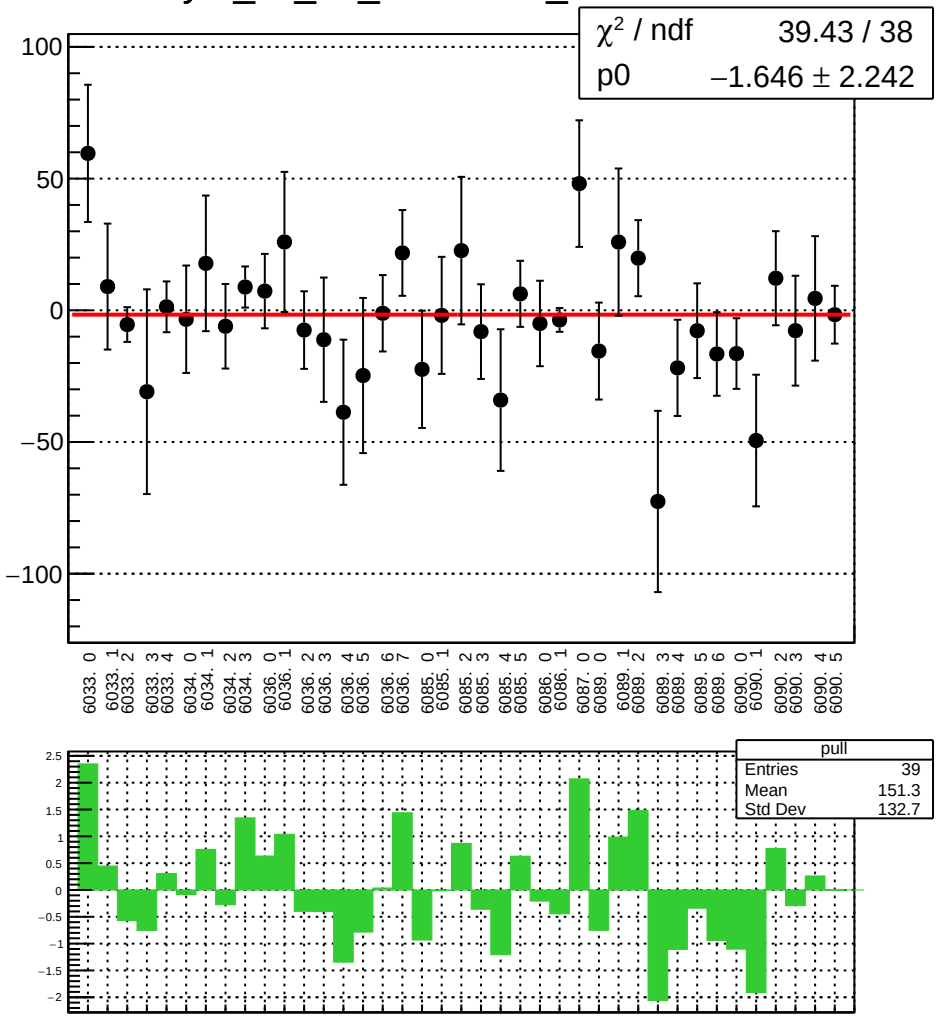

pull1D
Entries 39
Mean 0.01497
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

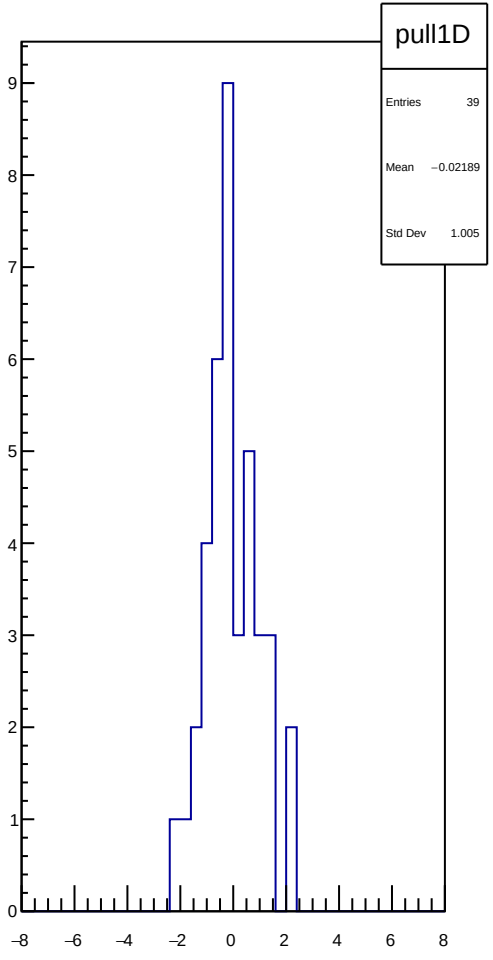

asym_ds_avg_rms vs run
χ^2 / ndf 96.62 / 38
p0 86.34 ± 0.09831
90
89
88
87
86
85
84
83
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

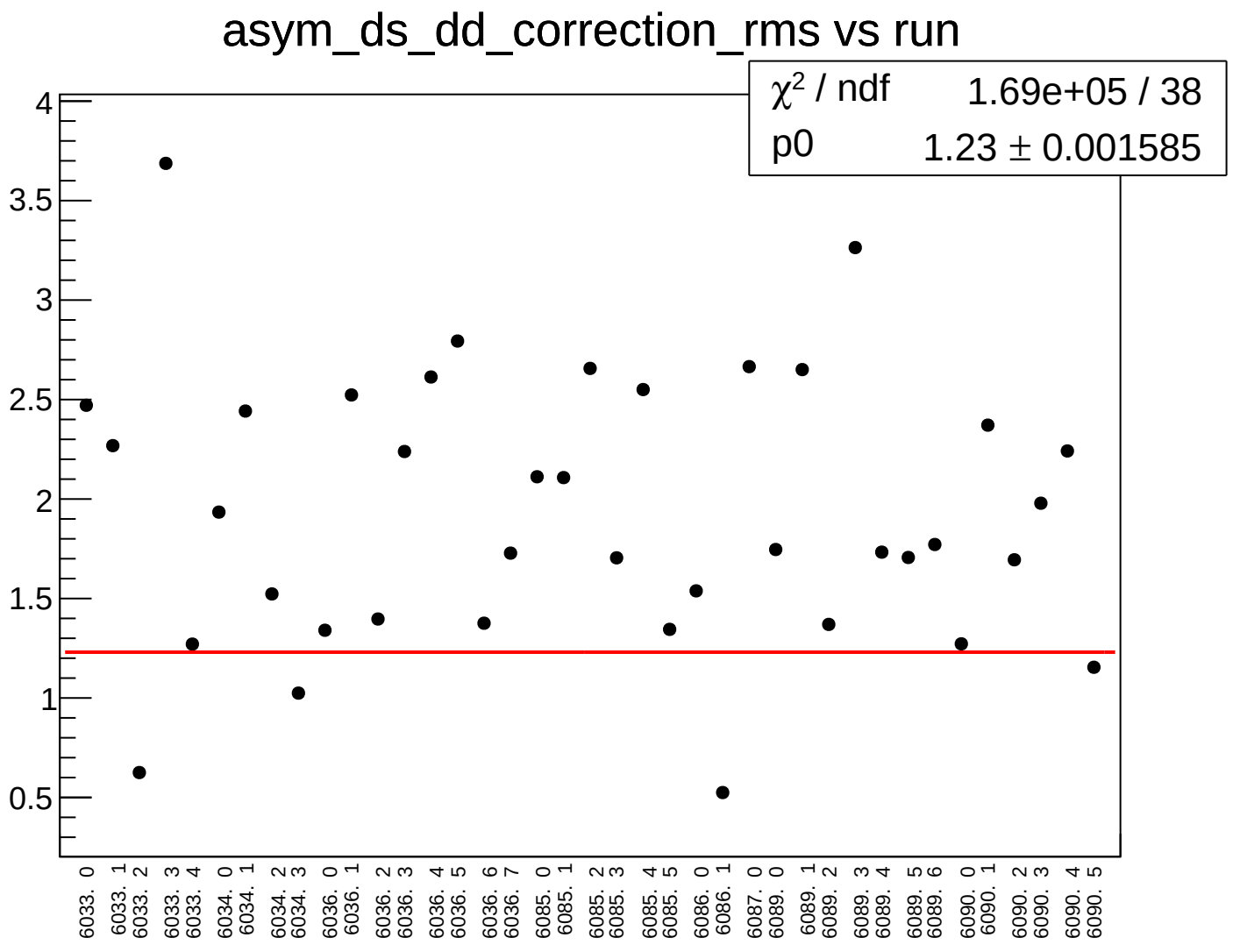

reg_asym_ds_dd_mean vs run
χ² / ndf 32.36 / 38
p0 27.23 ± 138.8
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −3.789
Std Dev 34.59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

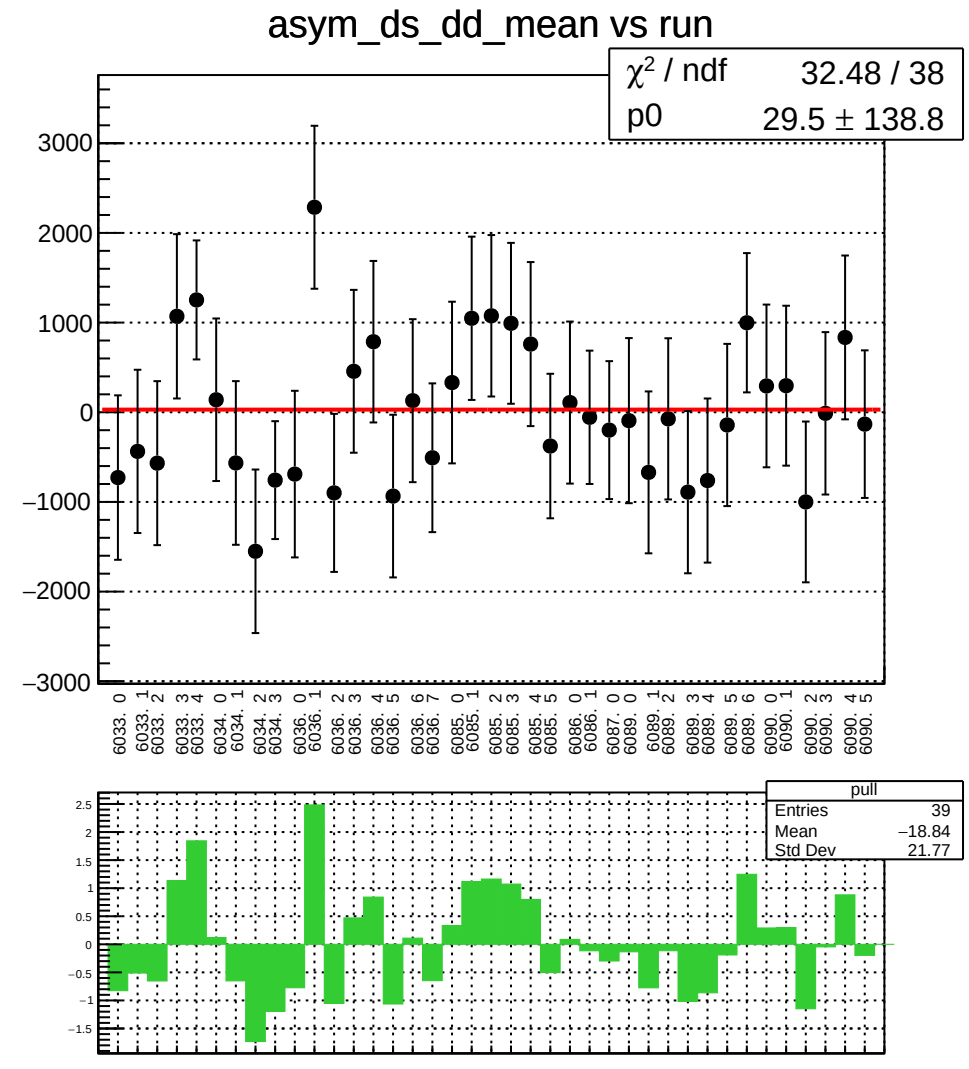

pull1D
Entries 39
Mean −0.006016
Std Dev 0.9109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

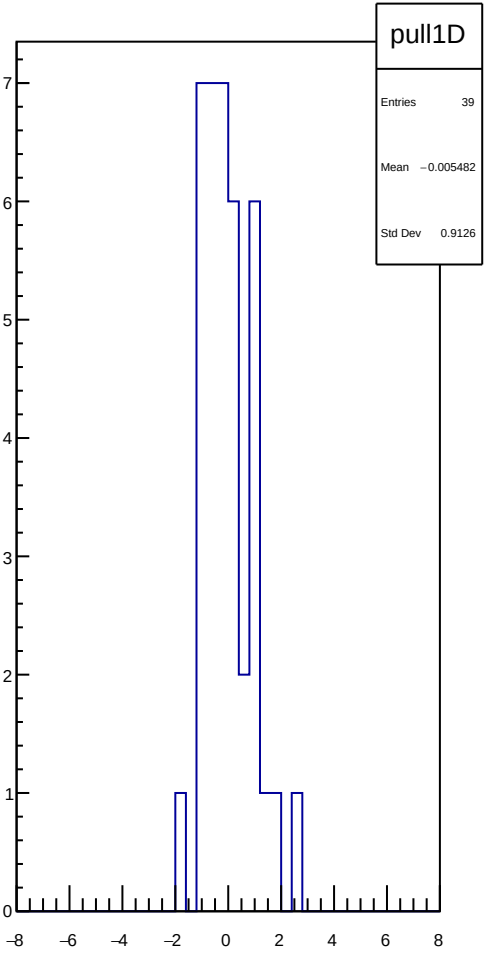

reg_asym_ds_dd_rms vs run
χ² / ndf 78.71 / 38
p0 86.18 ± 0.09813
89
88
87
86
85
84
83
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

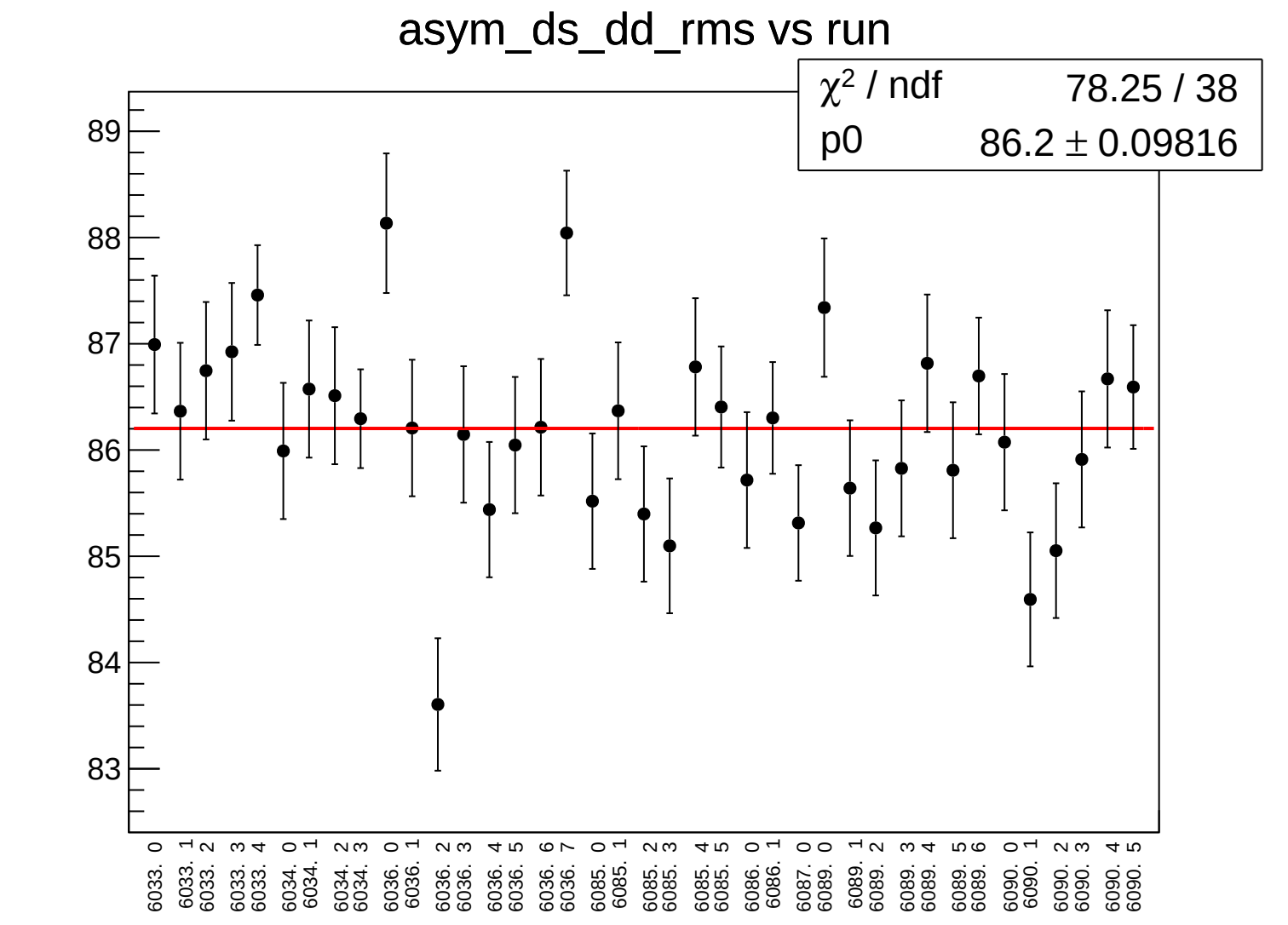

asym_ds_dd_correction_mean vs run
χ² / ndf 39.43 / 38
p0 −1.646 ± 2.242
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 151.3
Std Dev 132.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

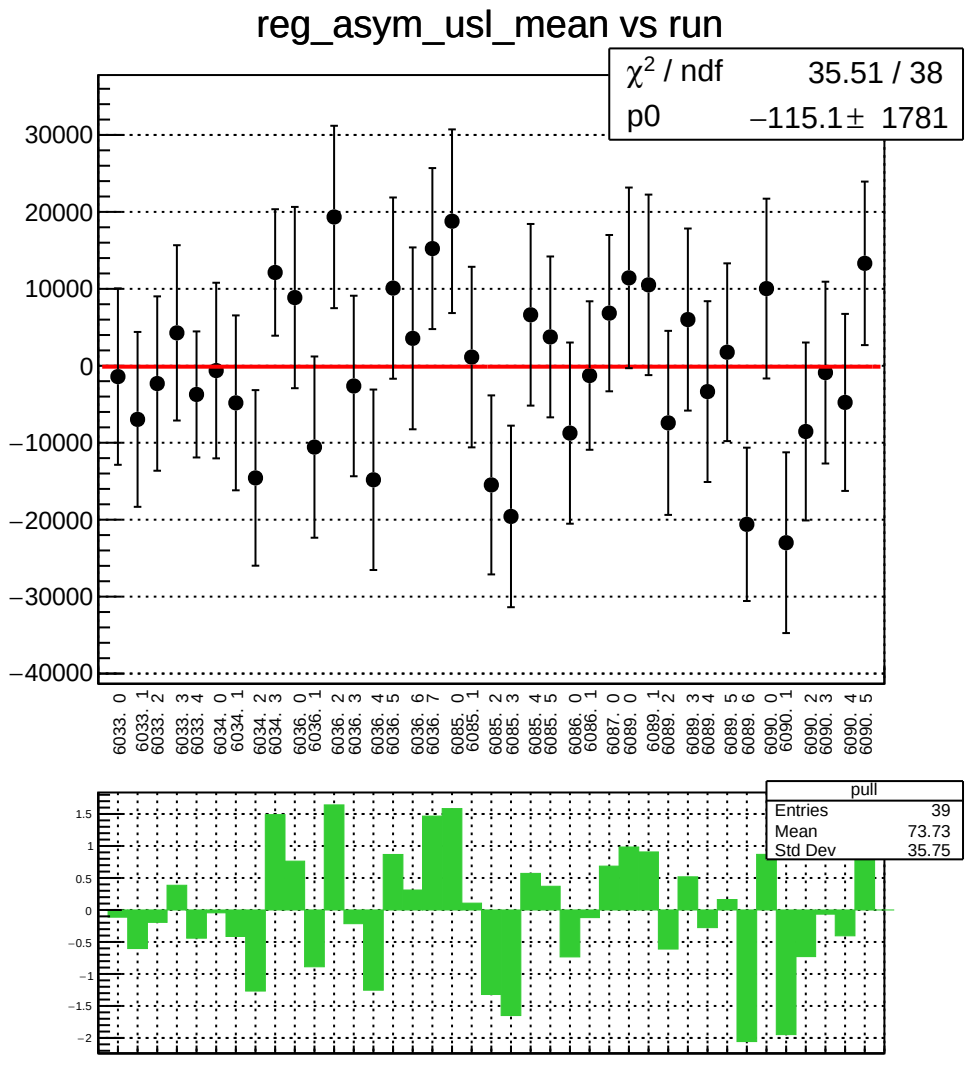

pull1D
Entries 39
Mean −0.02189
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

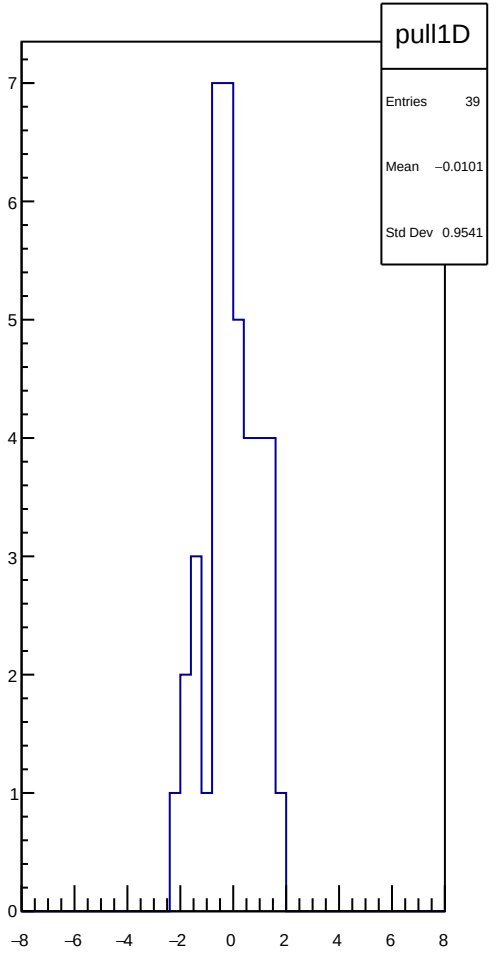

asym_ds_dd_correction_rms vs run
χ² / ndf 1.69e+05 / 38
p0 1.23 ± 0.001585
4
3.5
3
2.5
2
1.5
1
0.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

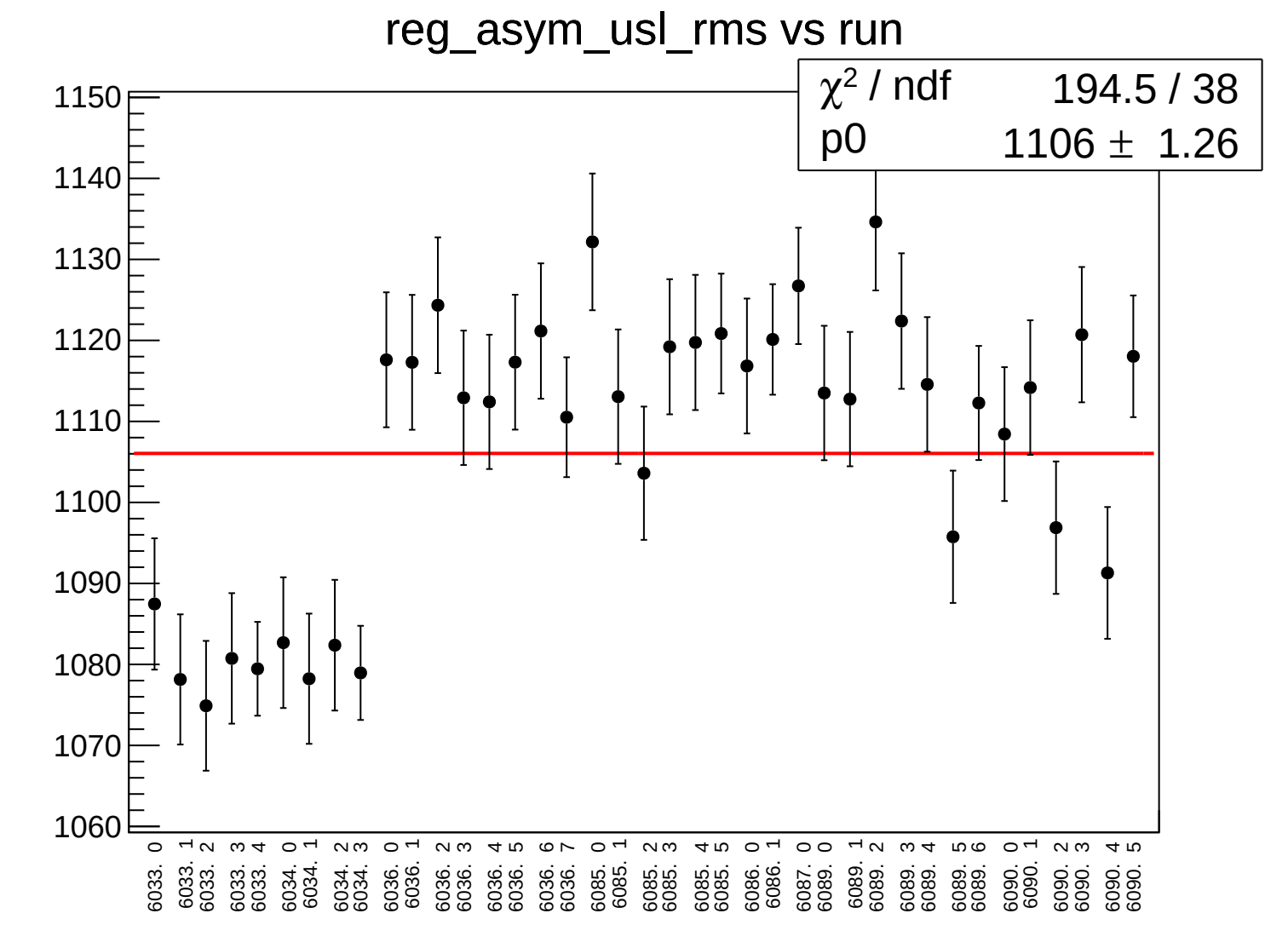

asym_ds_dd_mean vs run
χ² / ndf 32.48 / 38
p0 29.5 ± 138.8
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −18.84
Std Dev 21.77
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

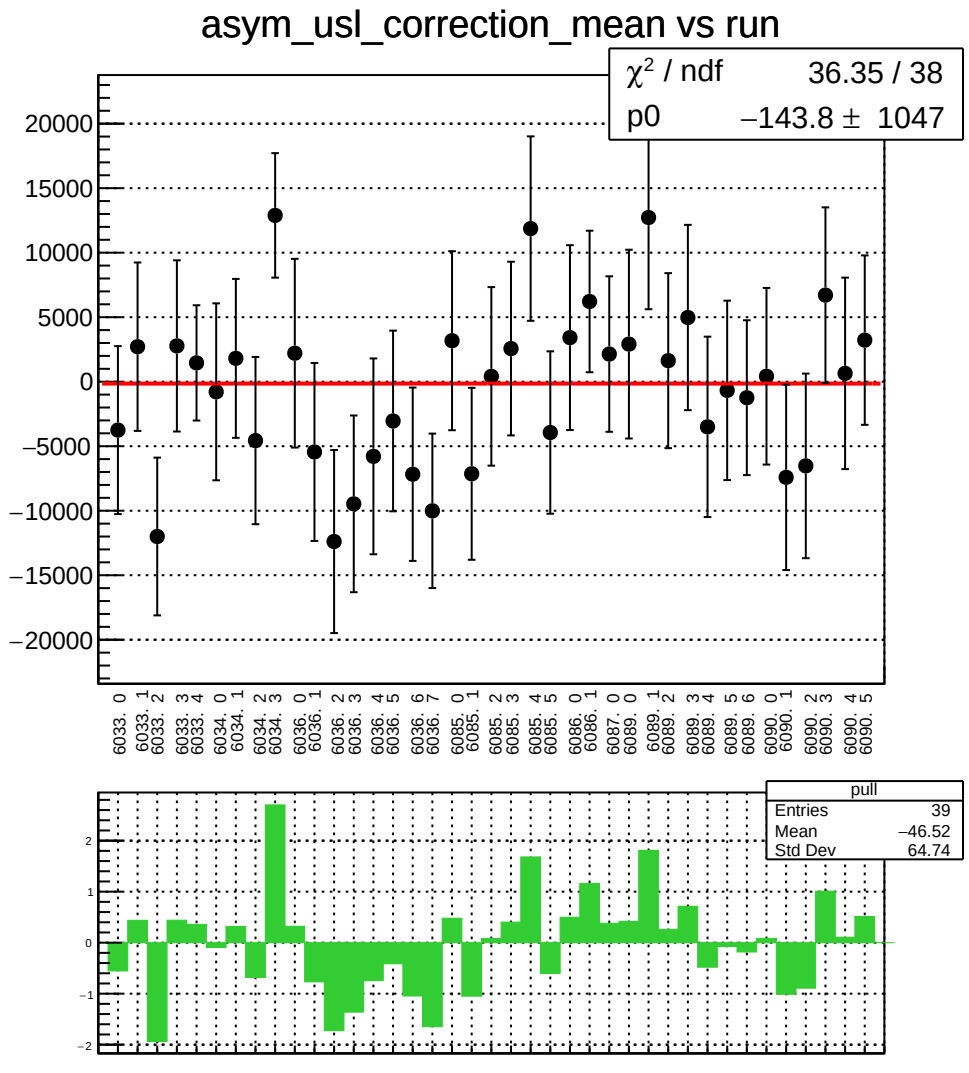

pull1D
Entries 39
Mean −0.005482
Std Dev 0.9126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

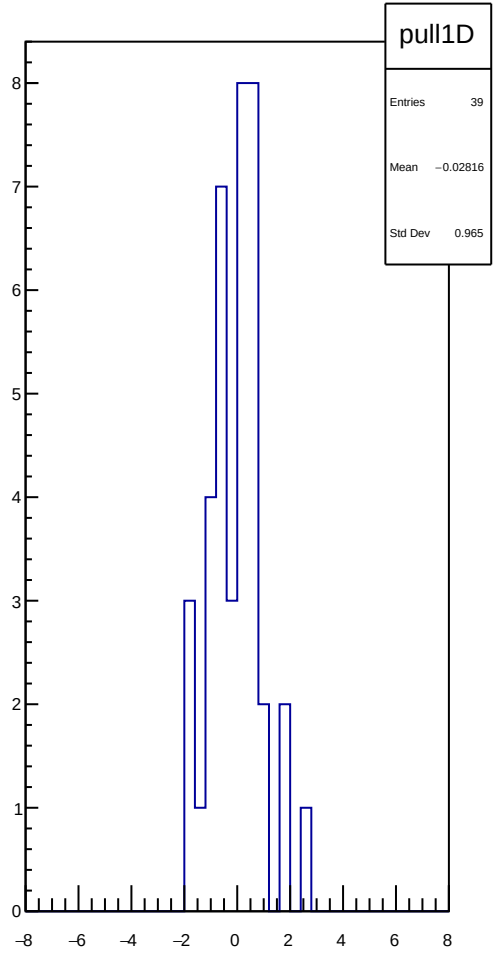

asym_ds_dd_rms vs run
χ² / ndf 78.25 / 38
p0 86.2 ± 0.09816
89
88
87
86
85
84
83
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

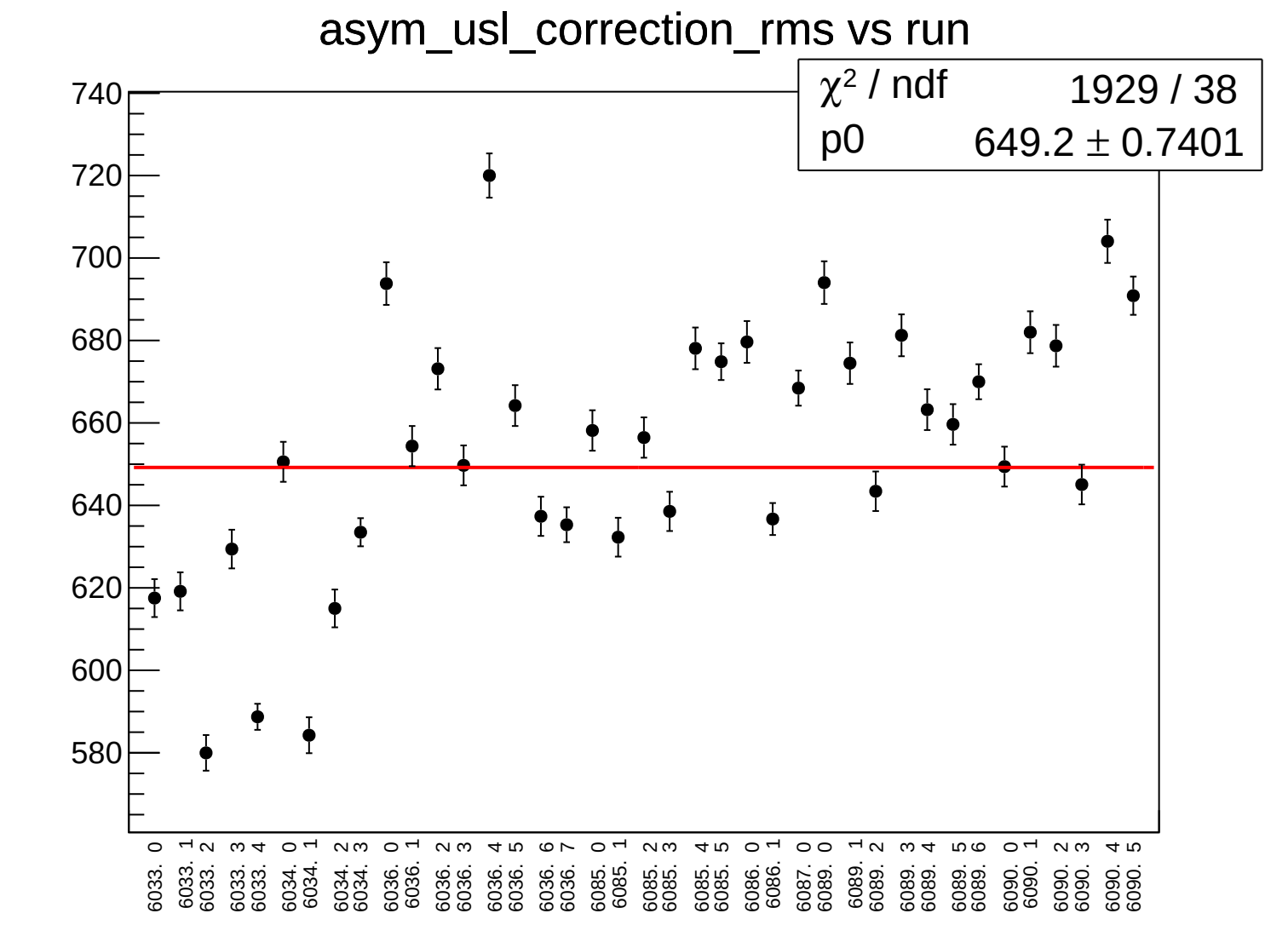

reg_asym_usl_mean vs run
χ² / ndf 35.51 / 38
p0 −115.1± 1781
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 73.73
Std Dev 35.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2

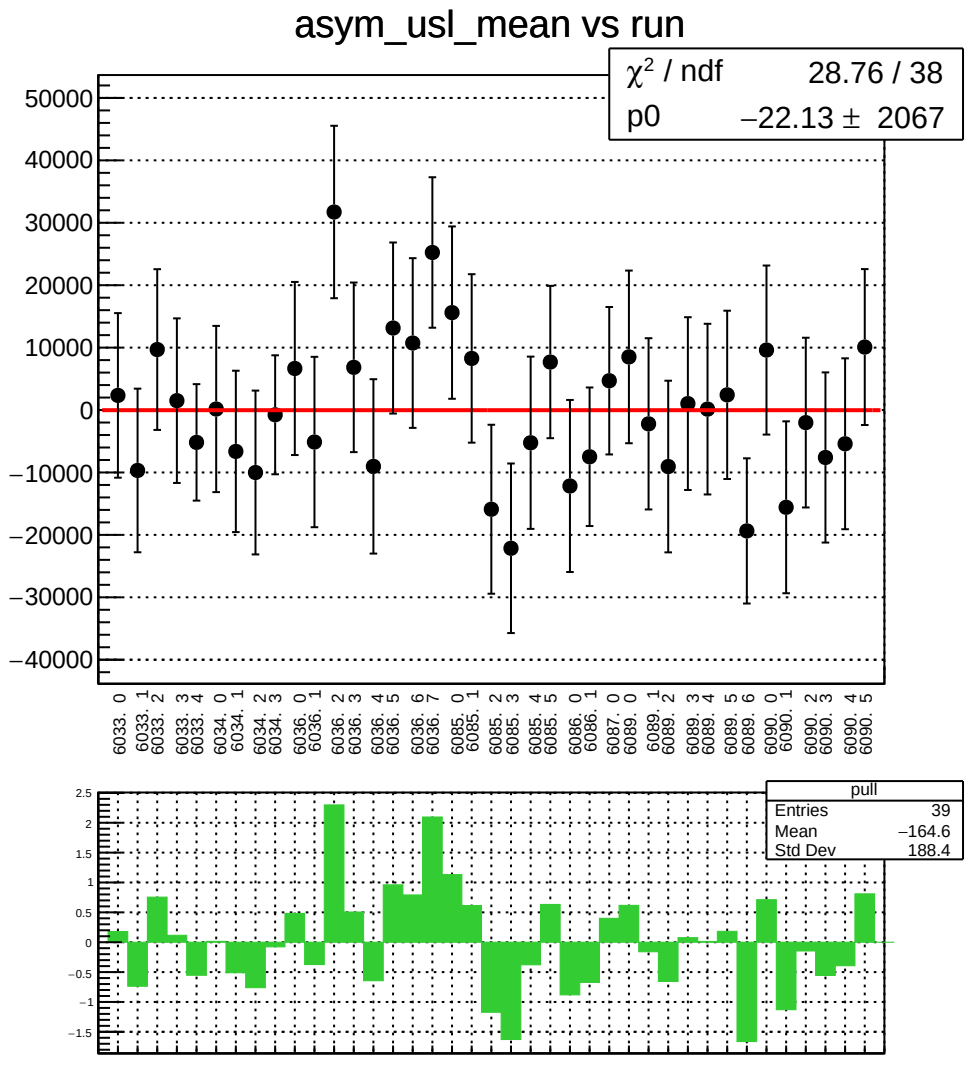

pull1D
Entries 39
Mean −0.0101
Std Dev 0.9541
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

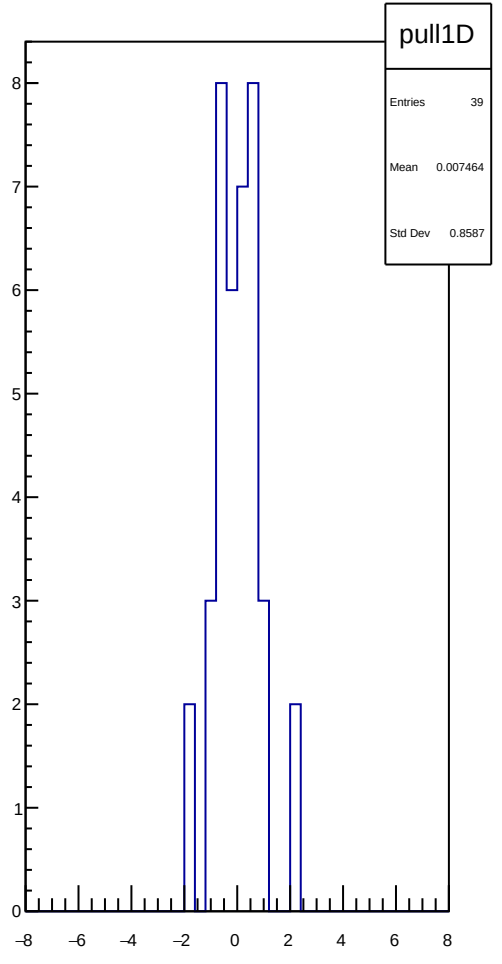

reg_asym_usl_rms vs run
χ² / ndf 194.5 / 38
p0 1106 ± 1.26
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

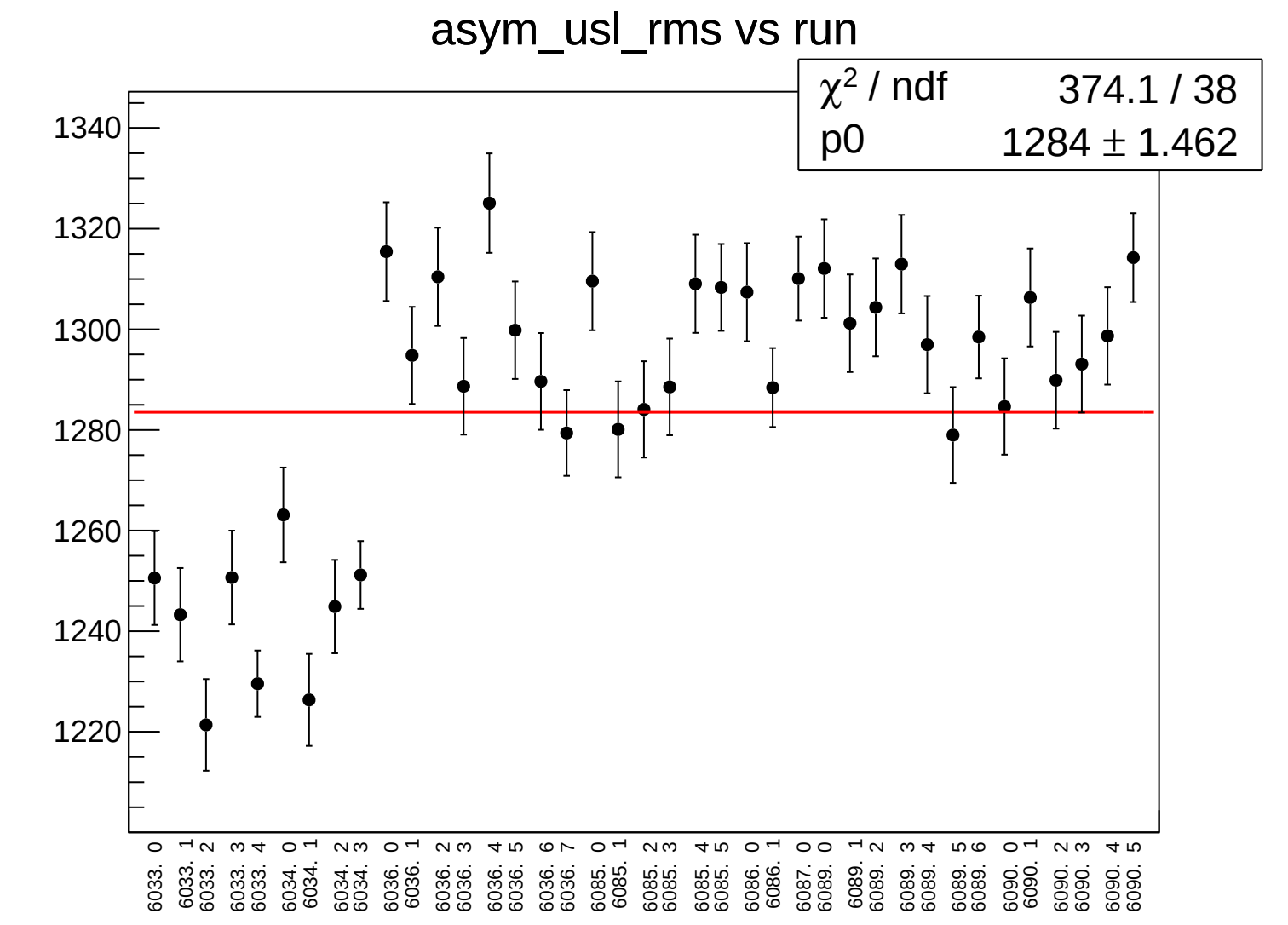

asym_usl_correction_mean vs run
χ² / ndf 36.35 / 38
p0 −143.8 ± 1047
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −46.52
Std Dev 64.74
2
1
0
−1
−2

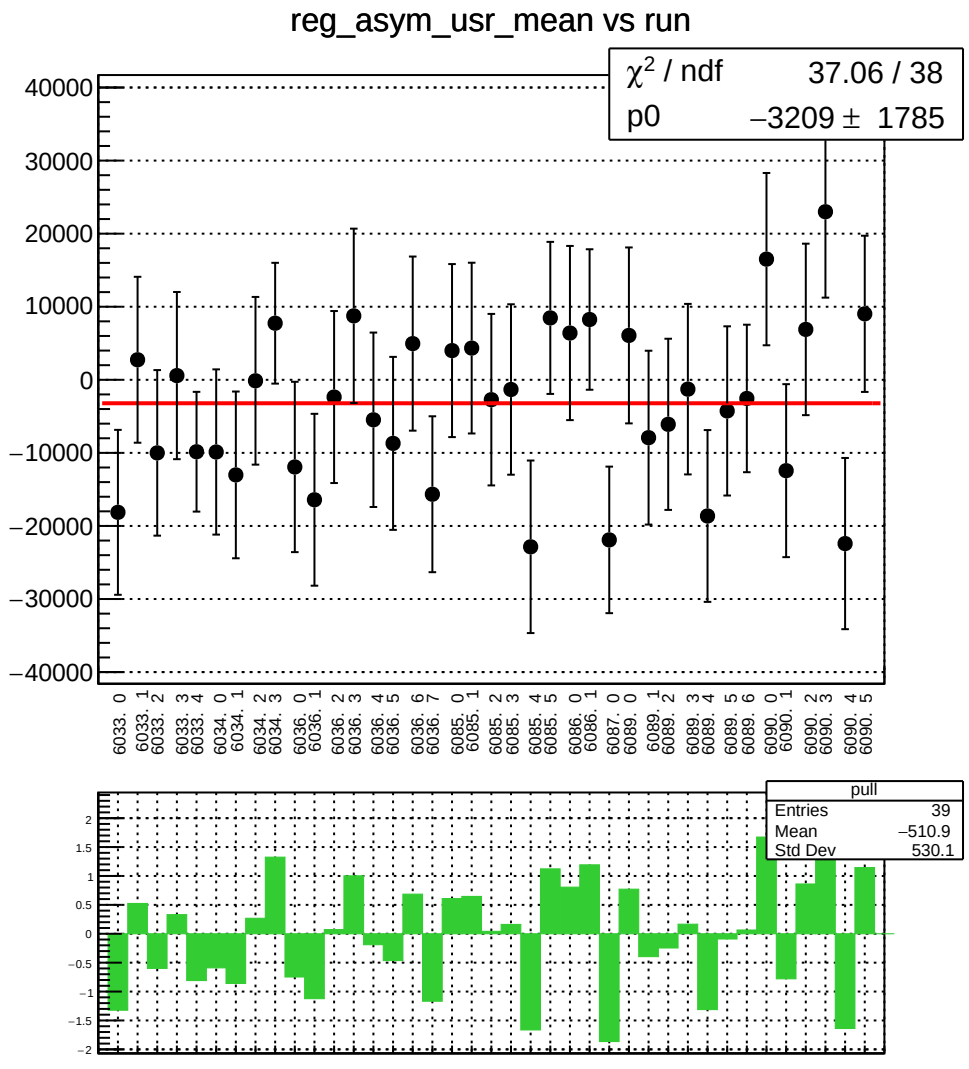

pull1D
Entries 39
Mean −0.02816
Std Dev 0.965
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

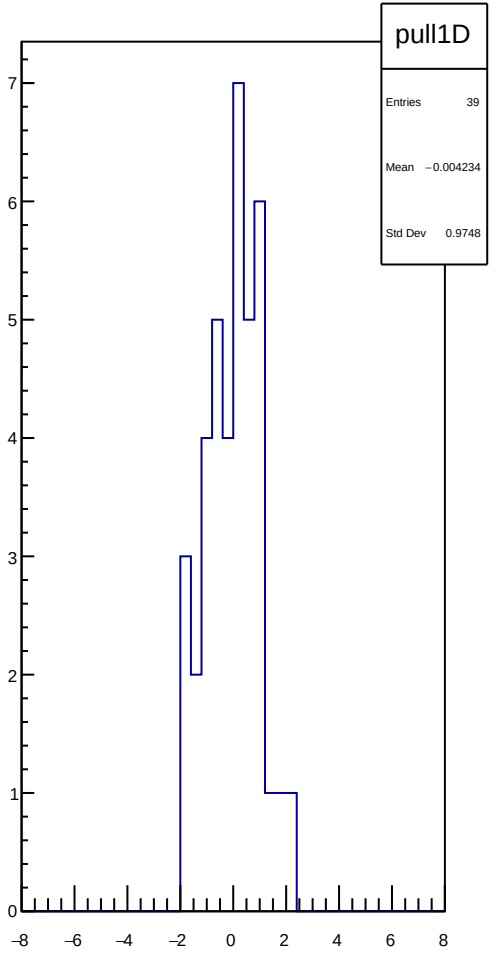

asym_usl_correction_rms vs run
χ² / ndf 1929 / 38
p0 649.2 ± 0.7401
740
720
700
680
660
640
620
600
580
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

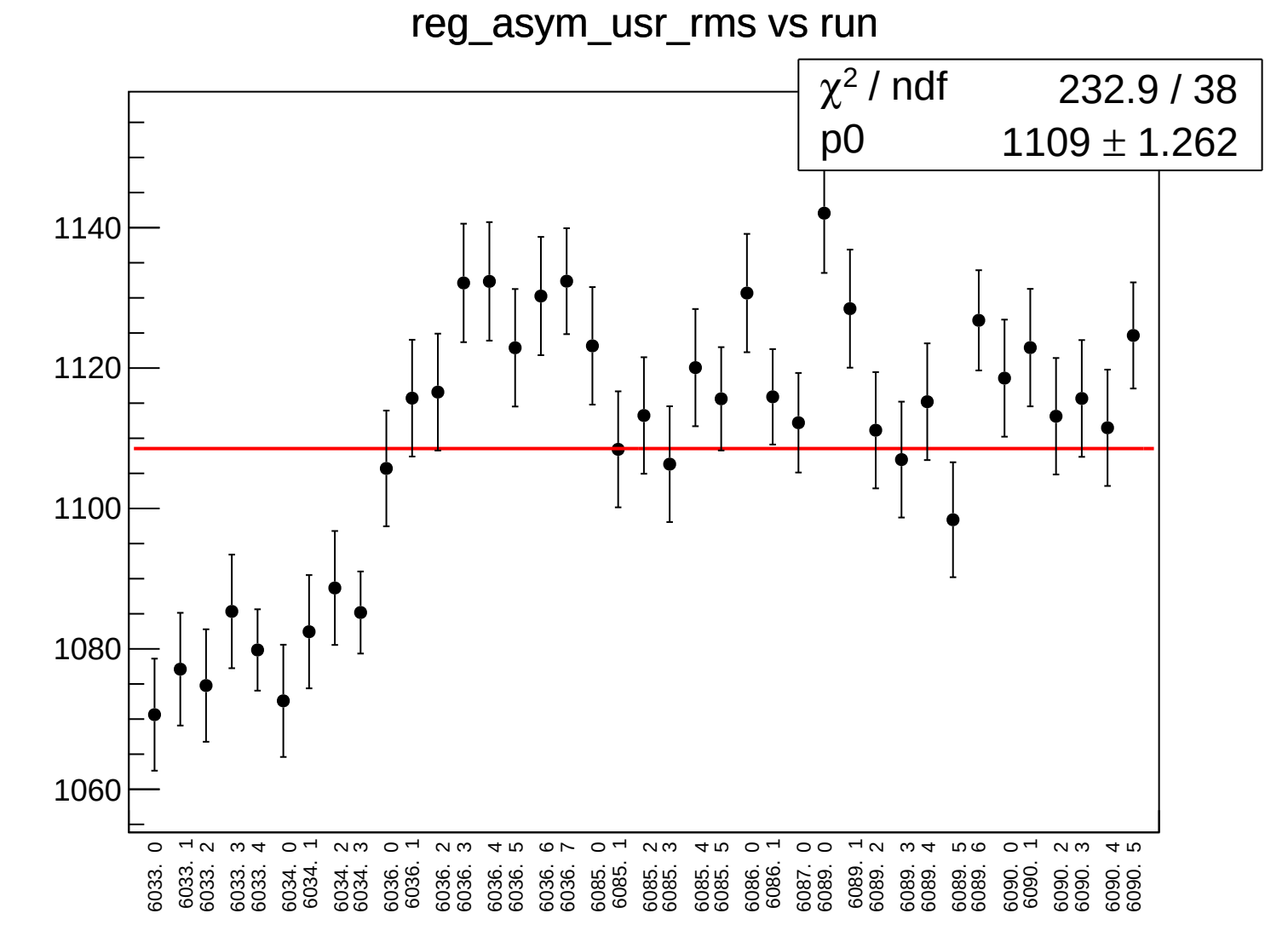

asym_usl_mean vs run
χ² / ndf 28.76 / 38
p0 −22.13 ± 2067
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −164.6
Std Dev 188.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

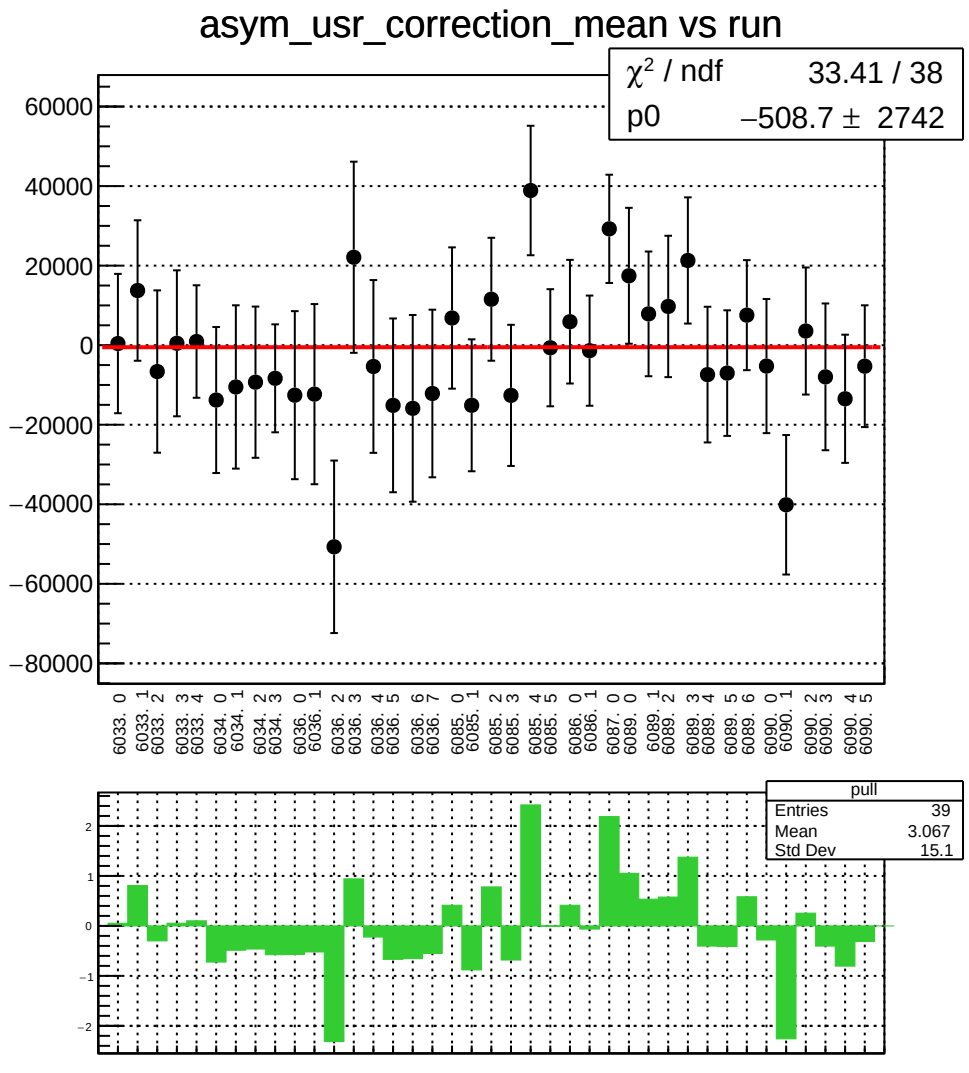

pull1D
Entries 39
Mean 0.007464
Std Dev 0.8587
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

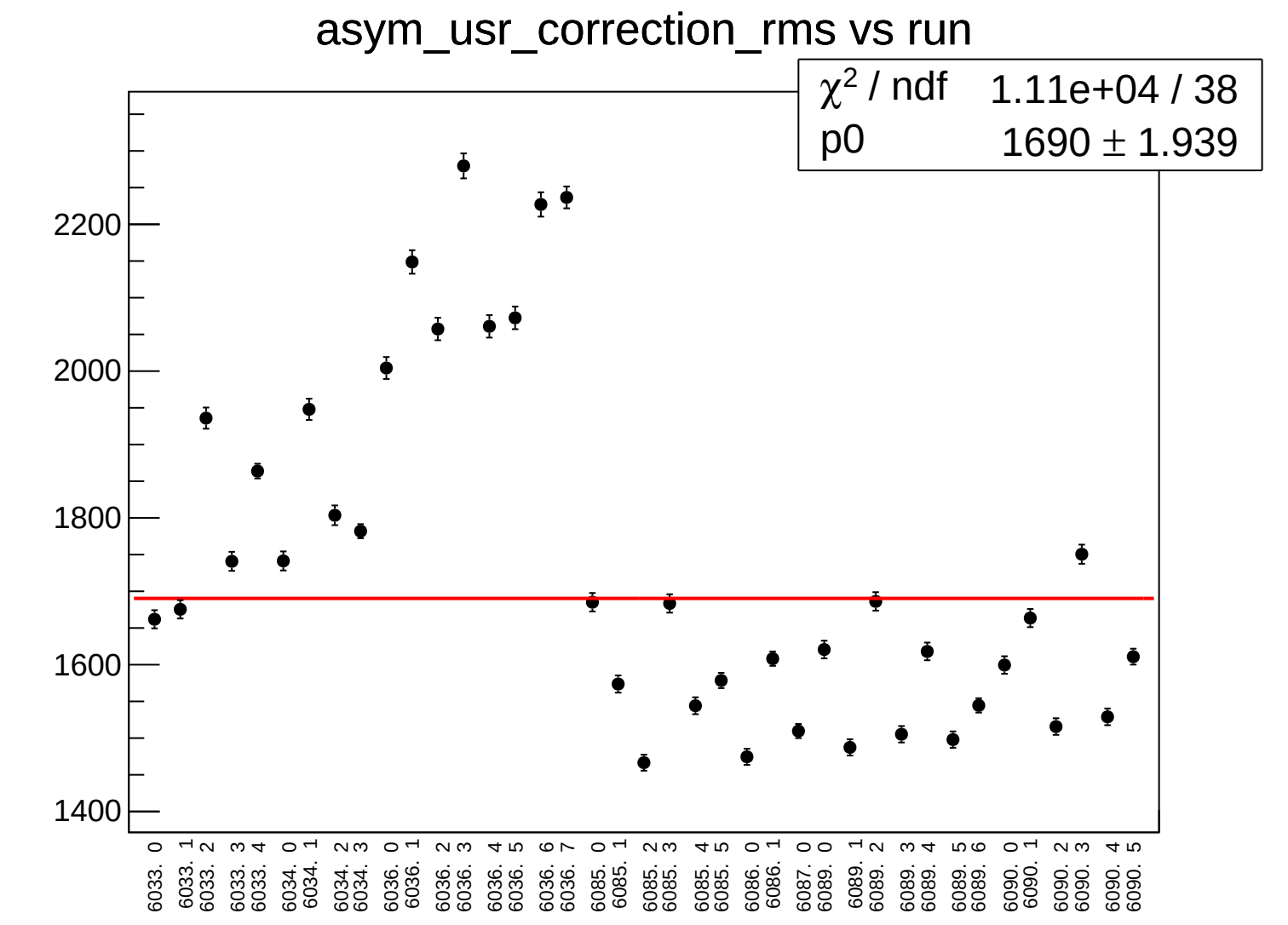

asym_usl_rms vs run
χ² / ndf 374.1 / 38
p0 1284 ± 1.462
1340
1320
1300
1280
1260
1240
1220
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

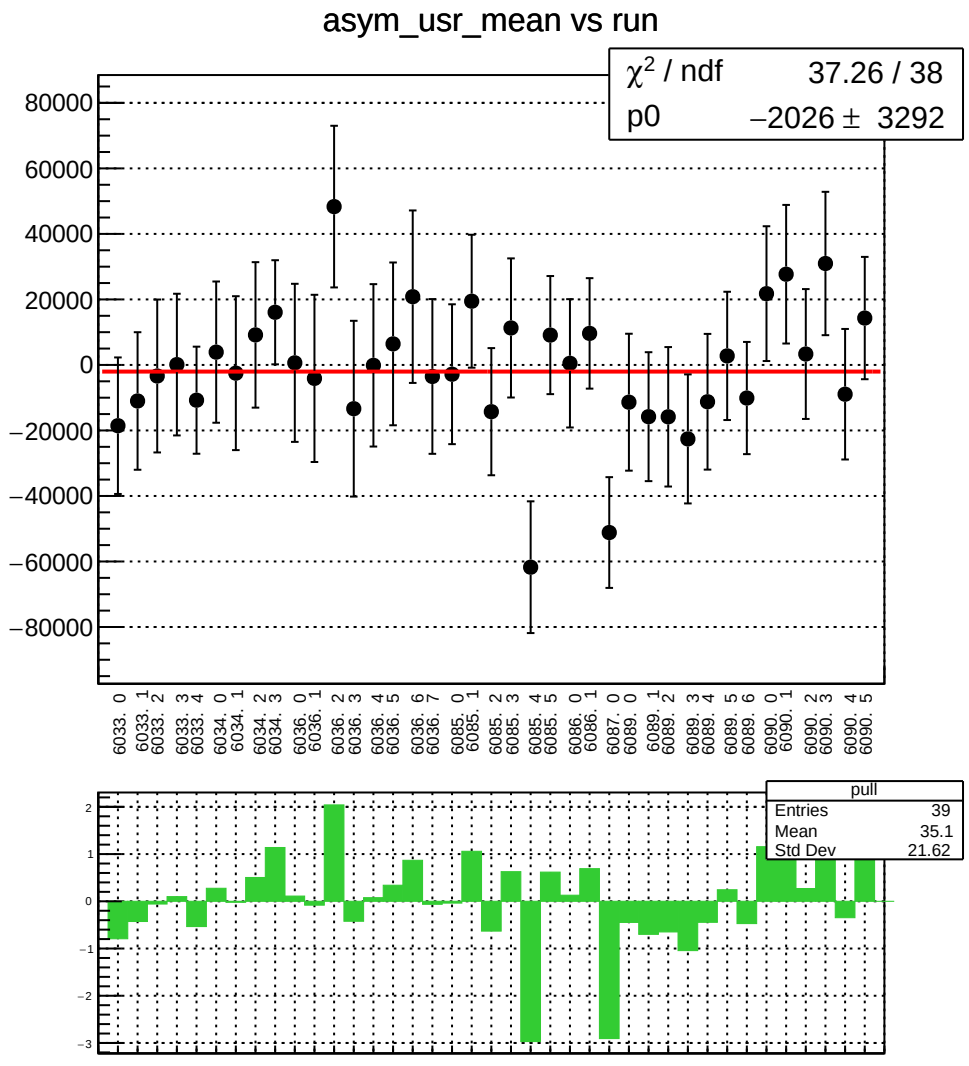

reg_asym_usr_mean vs run
χ² / ndf 37.06 / 38
p0 −3209 ± 1785
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −510.9
Std Dev 530.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

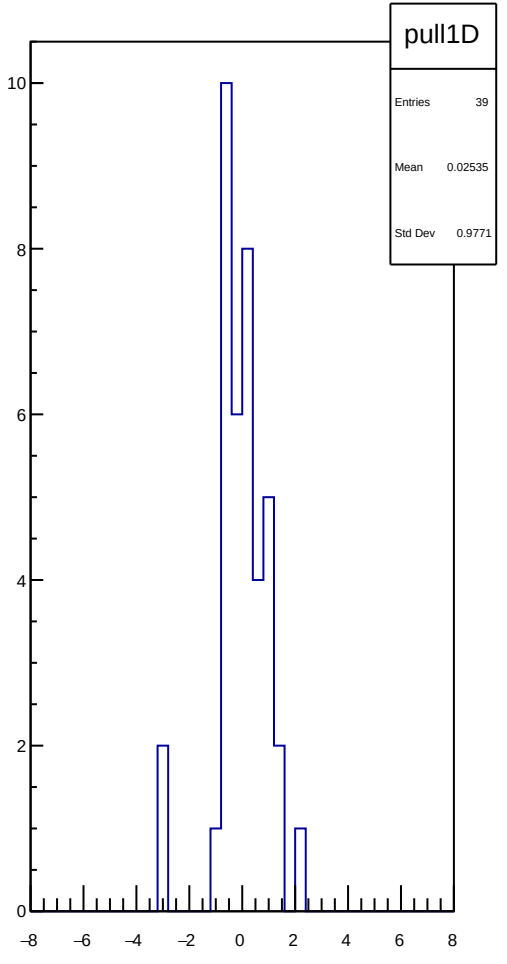

pull1D
Entries 39
Mean −0.004234
Std Dev 0.9748
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

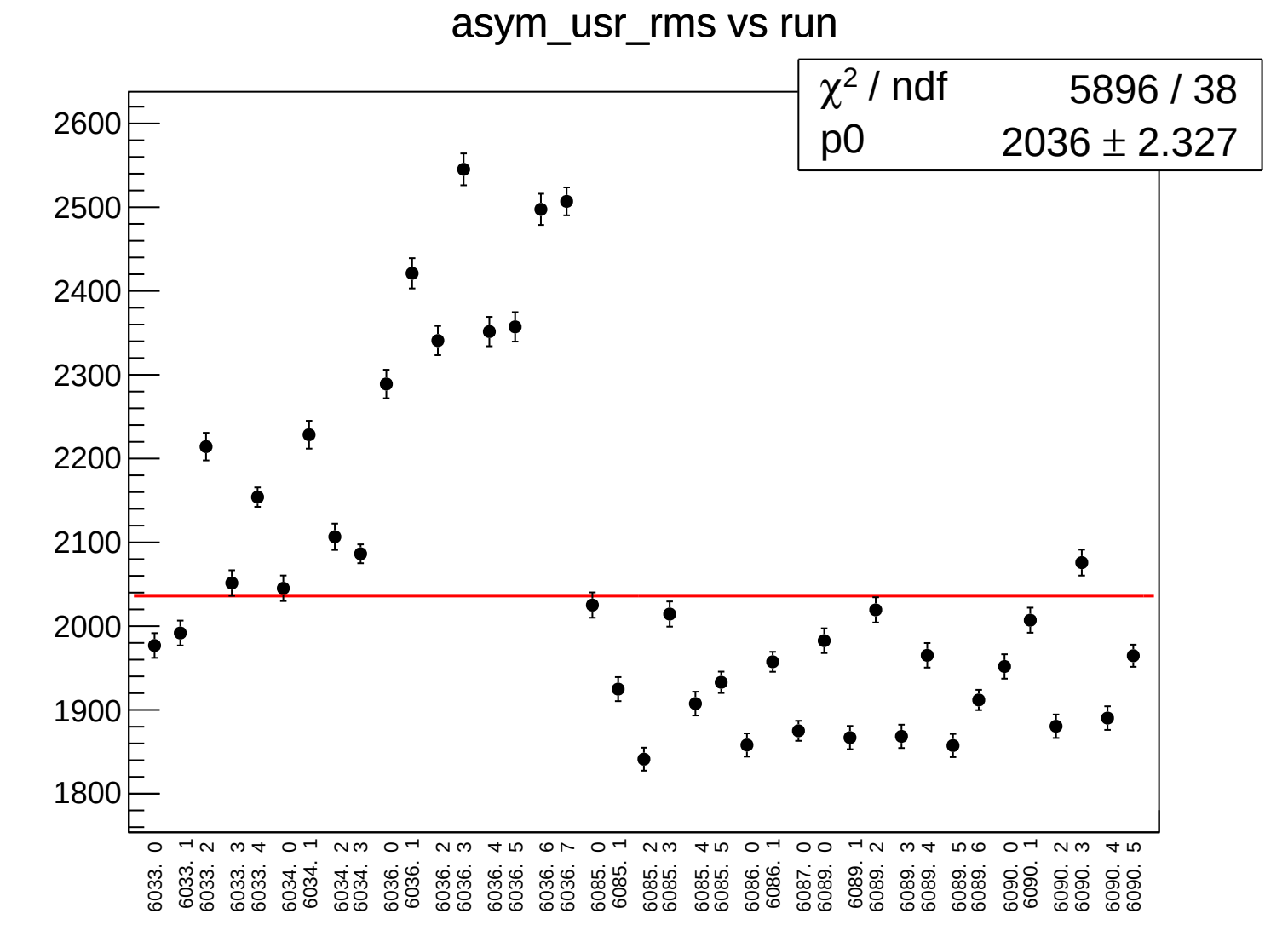

reg_asym_usr_rms vs run
χ² / ndf 232.9 / 38
p0 1109 ± 1.262
1140
1120
1100
1080
1060
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

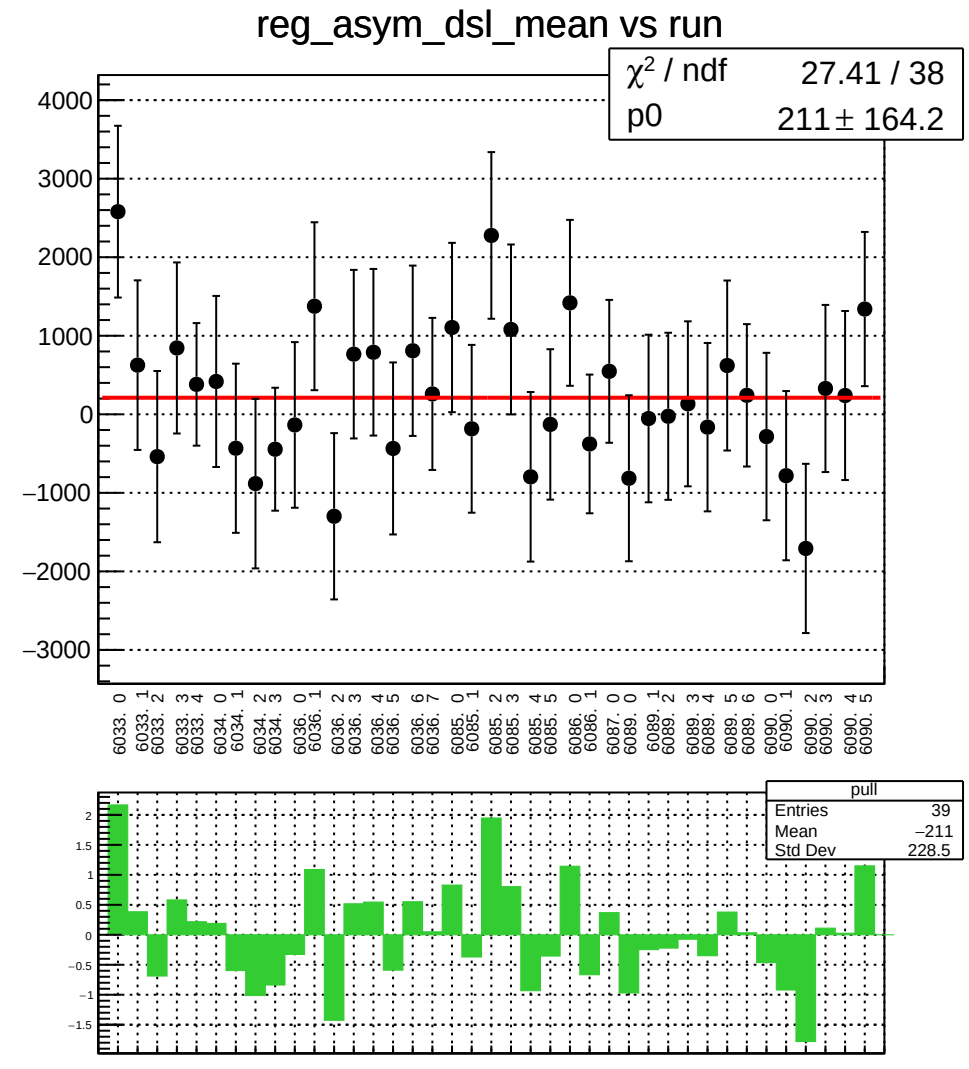

asym_usr_correction_mean vs run
χ² / ndf 33.41 / 38
p0 −508.7 ± 2742
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.067
Std Dev 15.1
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05181
Std Dev 0.9241
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

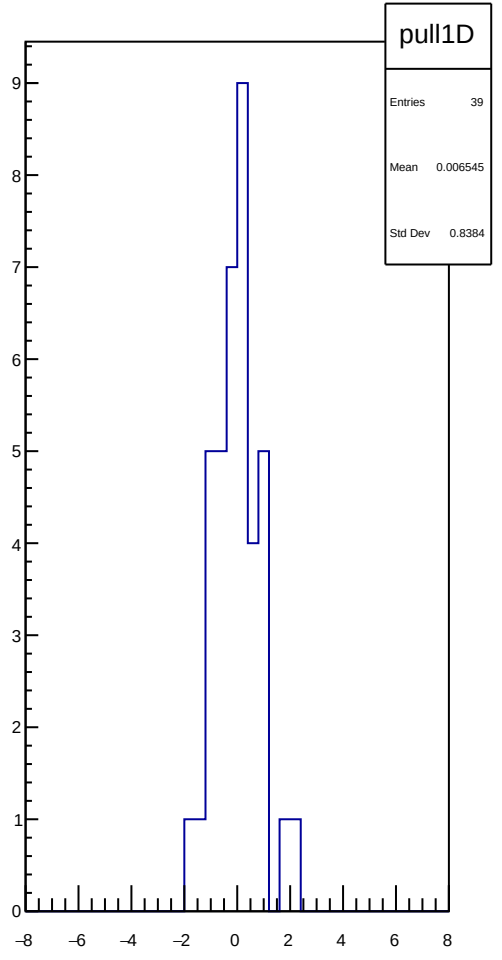

asym_usr_correction_rms vs run
χ² / ndf 1.11e+04 / 38
p0 1690 ± 1.939
2200
2000
1800
1600
1400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

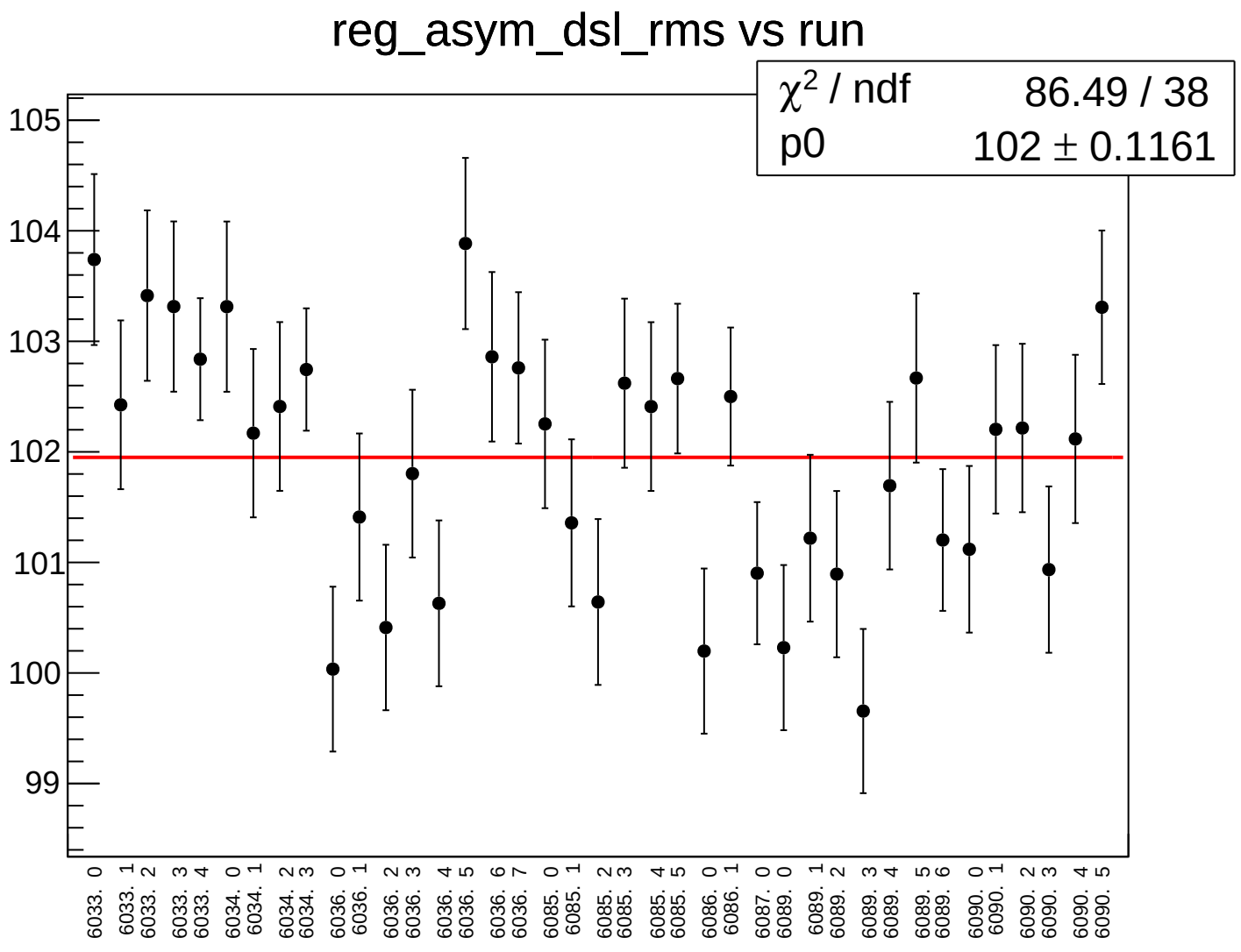

asym_usr_mean vs run
χ² / ndf 37.26 / 38
p0 −2026 ± 3292
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 35.1
Std Dev 21.62
2
1
0
−1
−2
−3

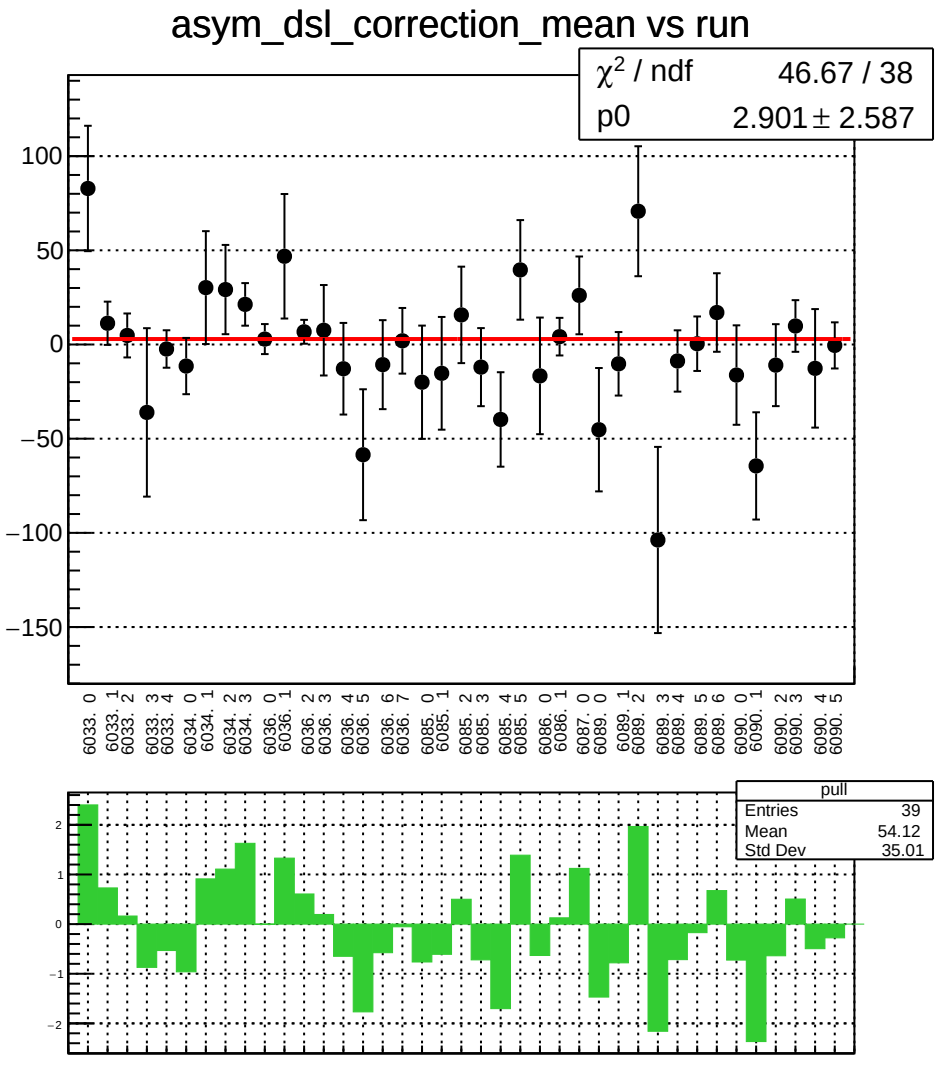

pull1D
Entries 39
Mean 0.02535
Std Dev 0.9771
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

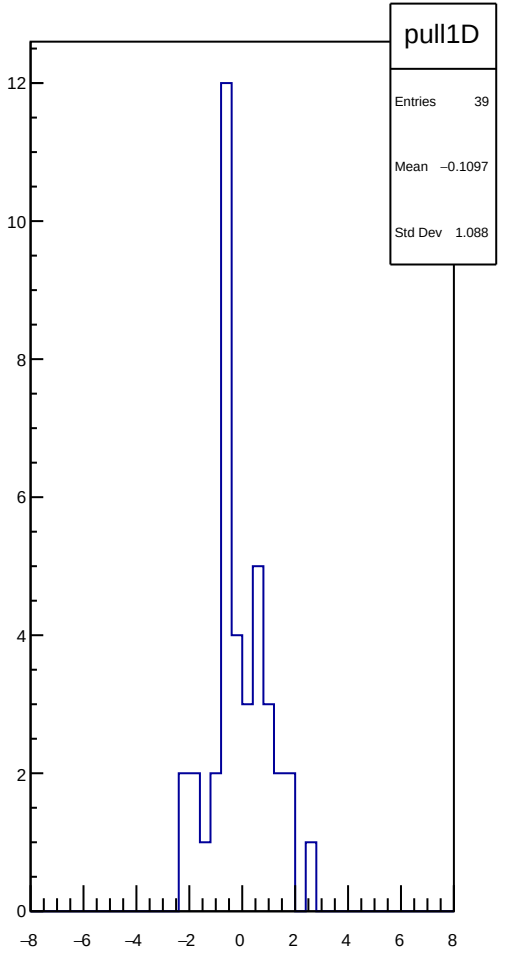

asym_usr_rms vs run
χ² / ndf 5896 / 38
p0 2036 ± 2.327
2600
2500
2400
2300
2200
2100
2000
1900
1800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

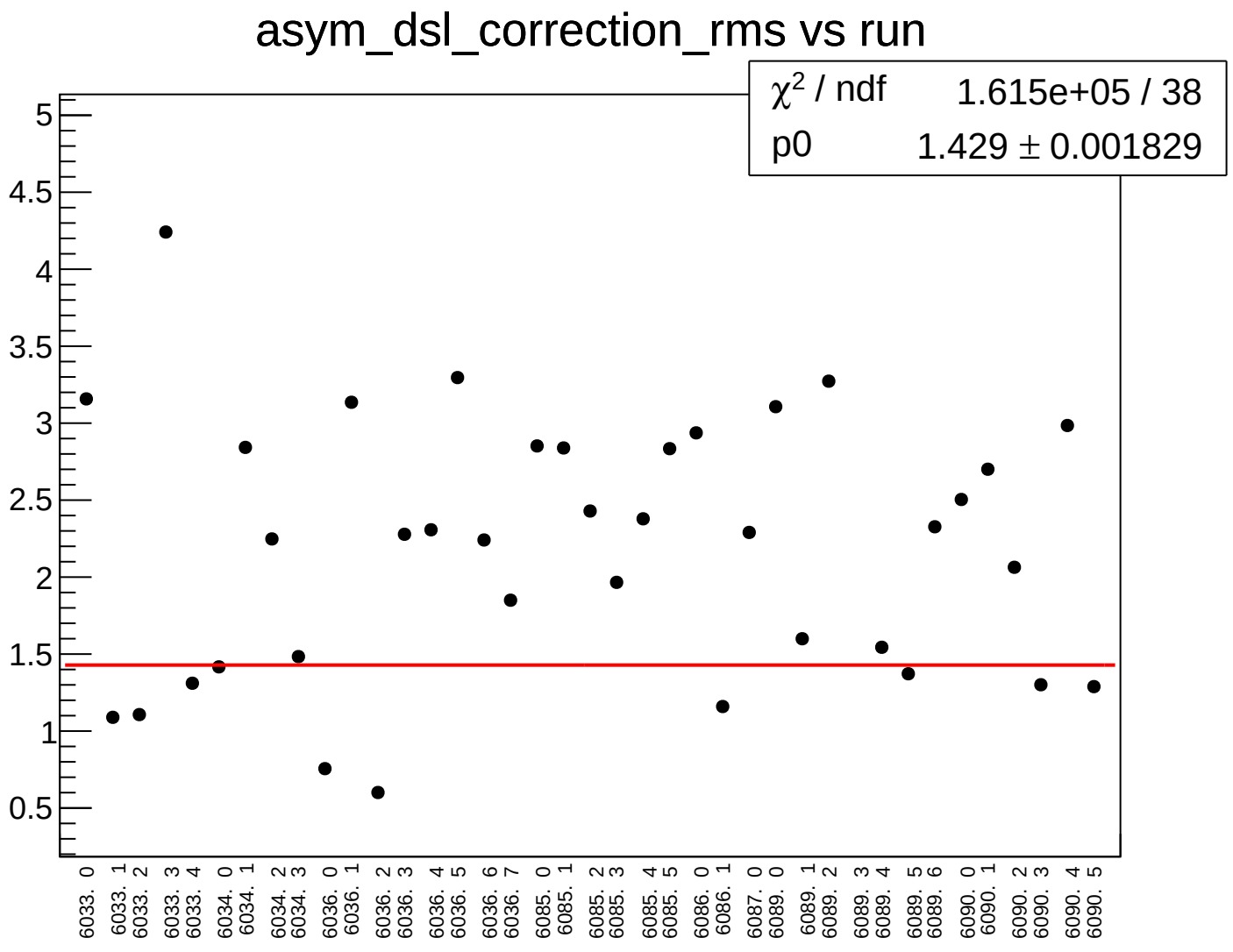

reg_asym_dsl_mean vs run
χ² / ndf 27.41 / 38
p0 211 ± 164.2
4000
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −211
Std Dev 228.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

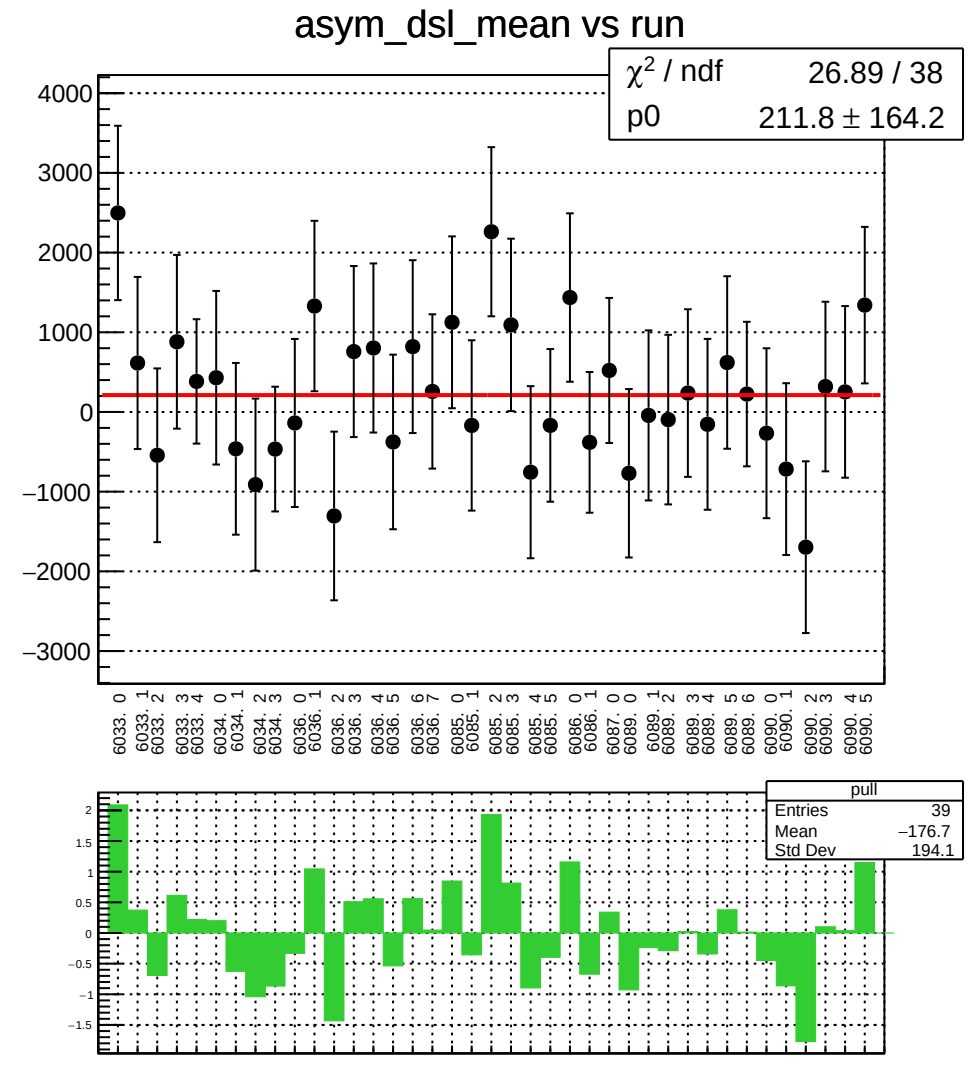

pull1D
Entries 39
Mean 0.006545
Std Dev 0.8384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

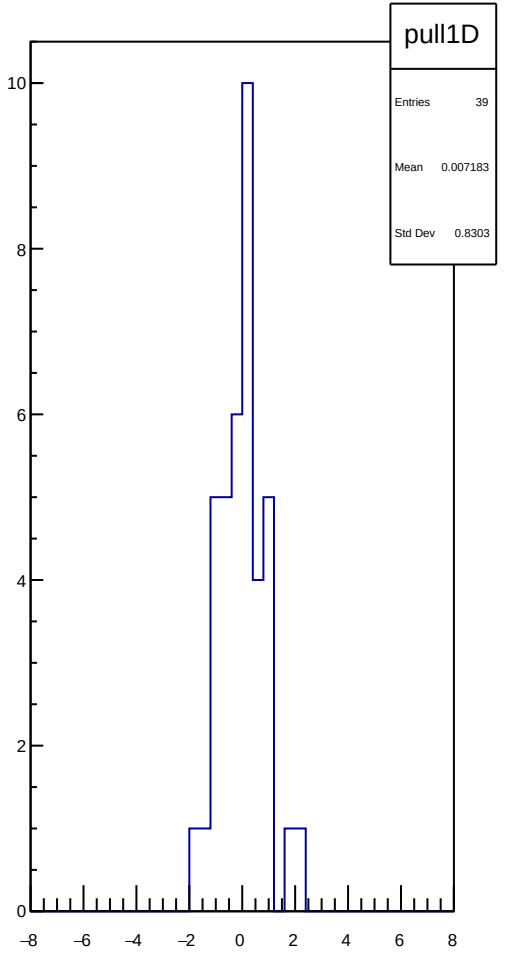

reg_asym_dsl_rms vs run
χ² / ndf 86.49 / 38
p0 102 ± 0.1161
105
104
103
102
101
100
99
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

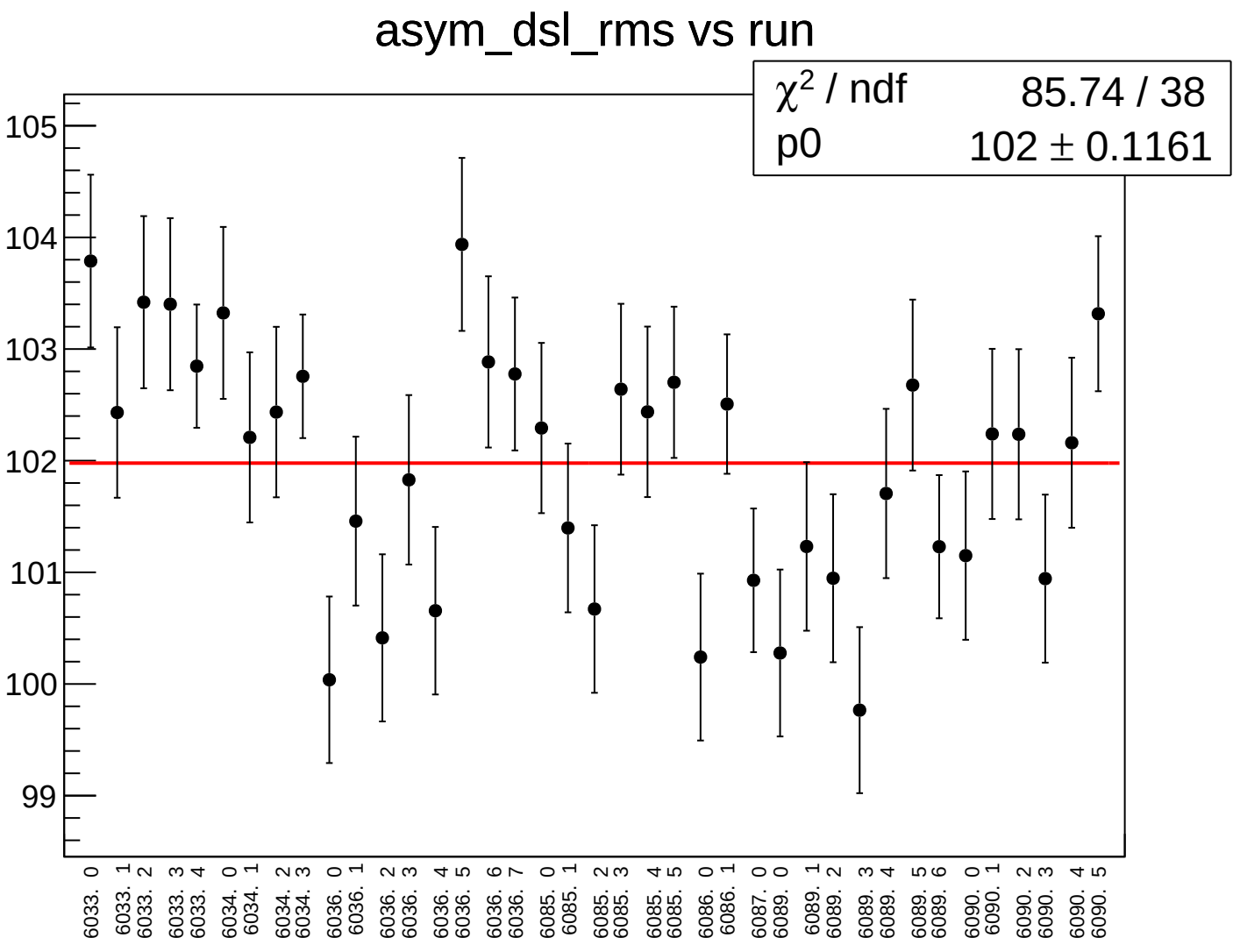

asym_dsl_correction_mean vs run
χ² / ndf 46.67 / 38
p0 2.901 ± 2.587
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 54.12
Std Dev 35.01
2
1
0
−1
−2

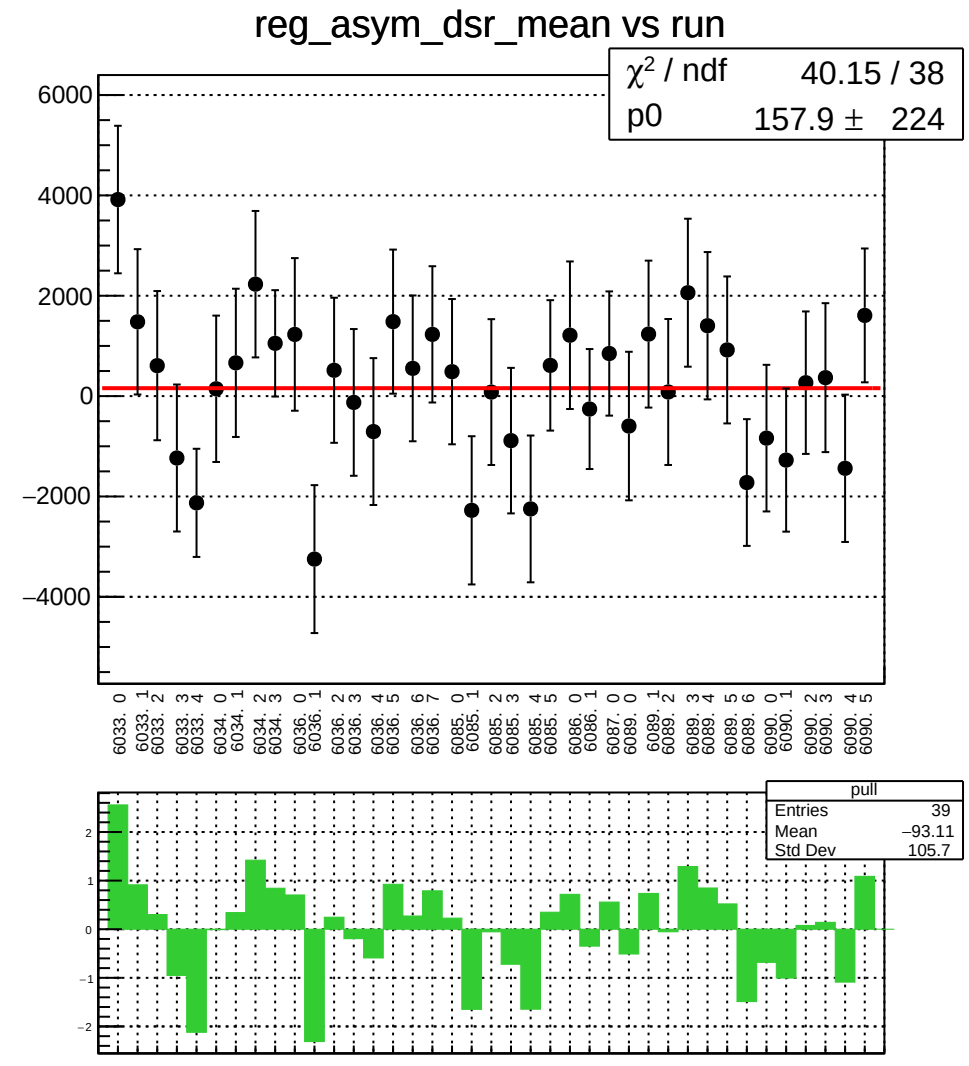

pull1D
Entries 39
Mean −0.1097
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

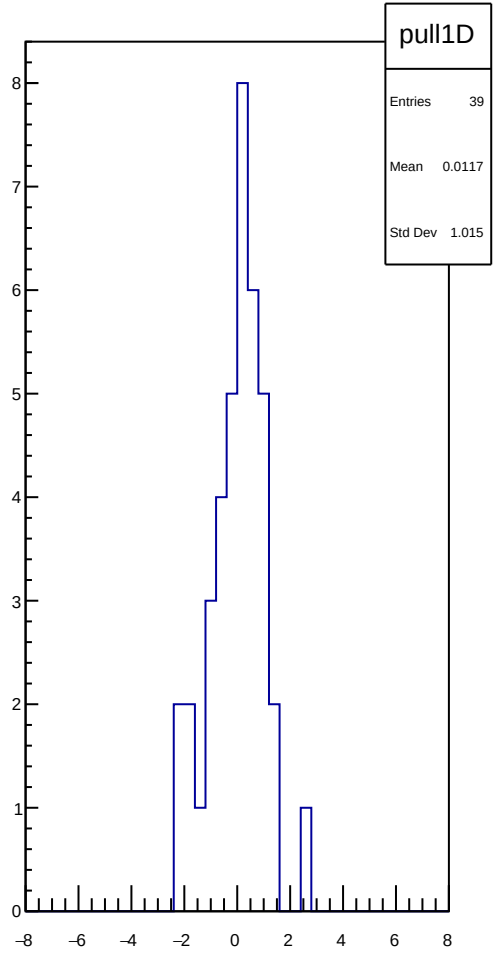

asym_dsl_correction_rms vs run
χ^2 / ndf 1.615e+05 / 38
p0 1.429 ± 0.001829
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

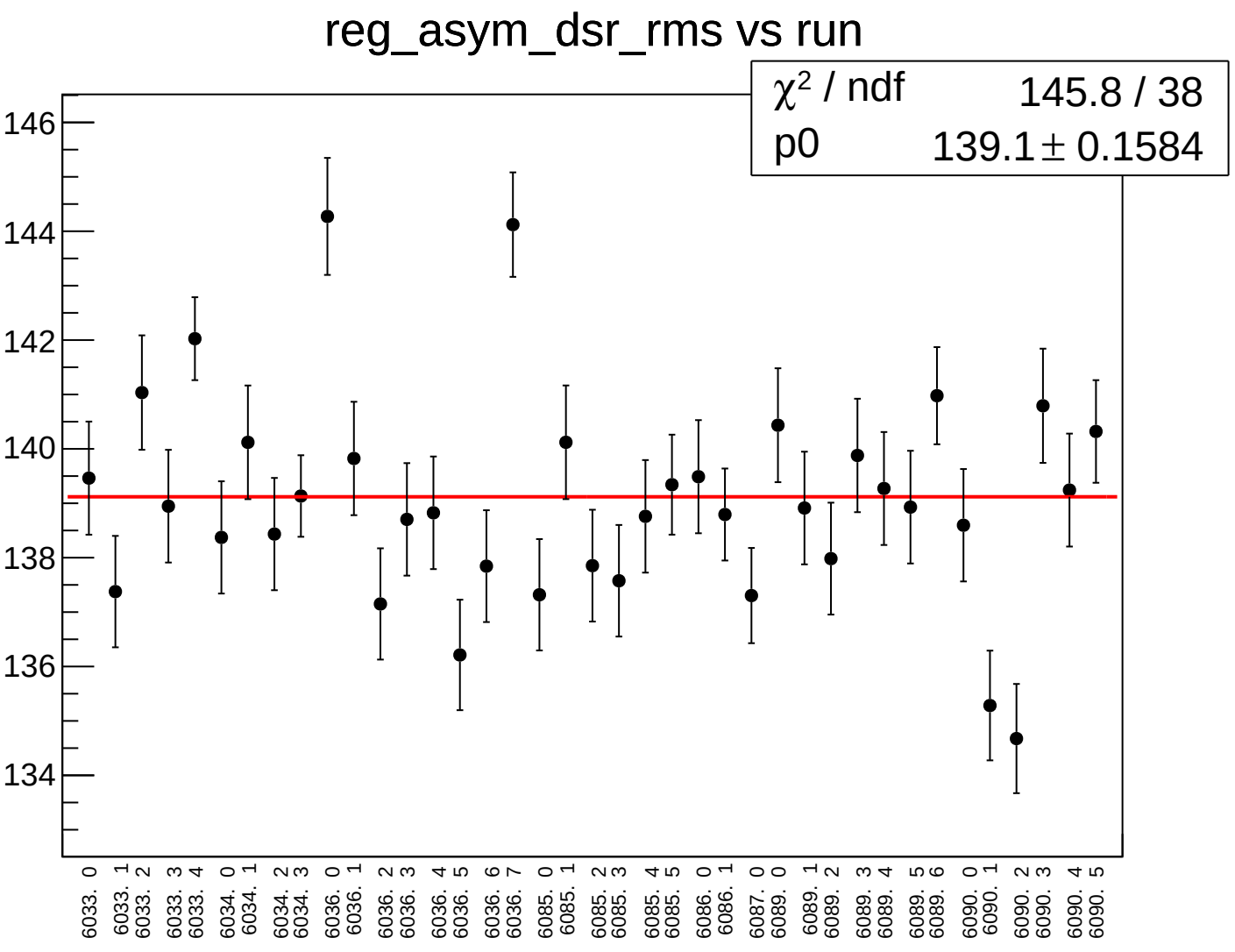

asym_dsl_mean vs run
χ² / ndf 26.89 / 38
p0 211.8 ± 164.2
4000
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −176.7
Std Dev 194.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

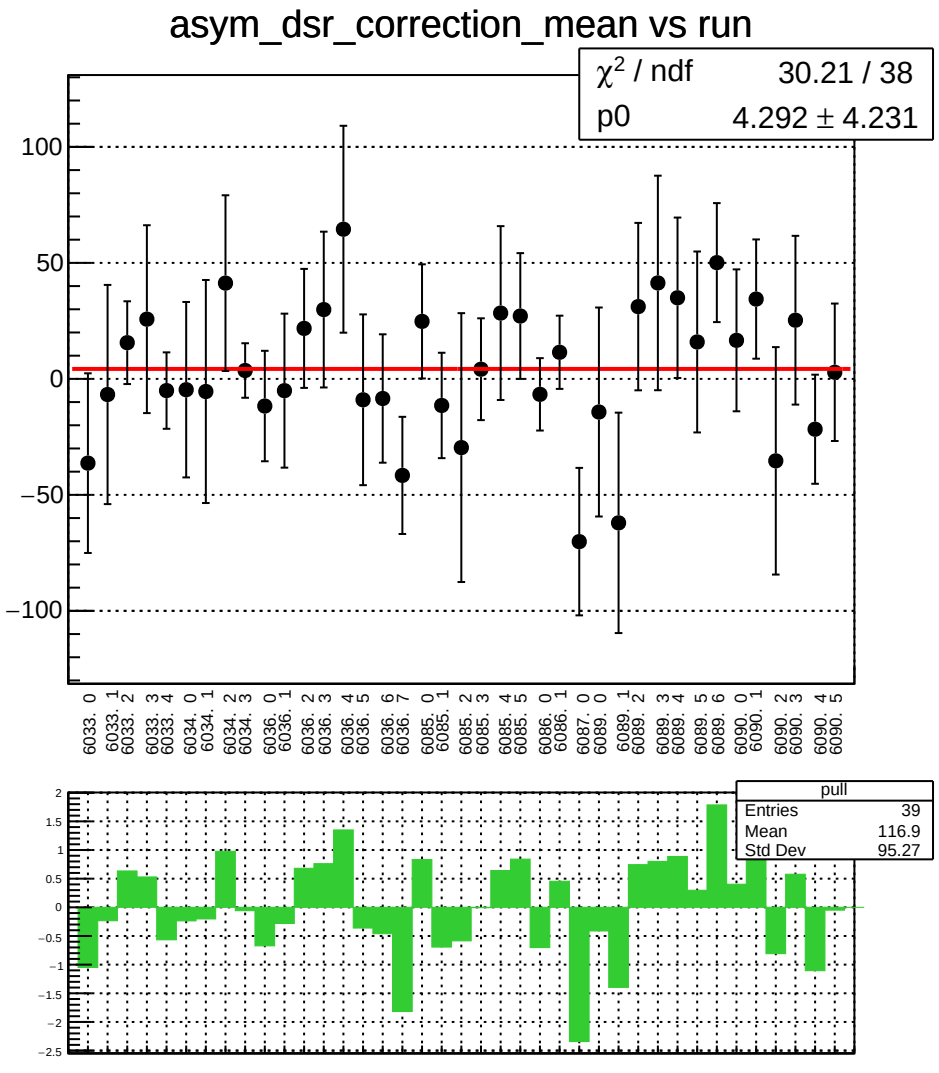

pull1D
Entries 39
Mean 0.007183
Std Dev 0.8303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

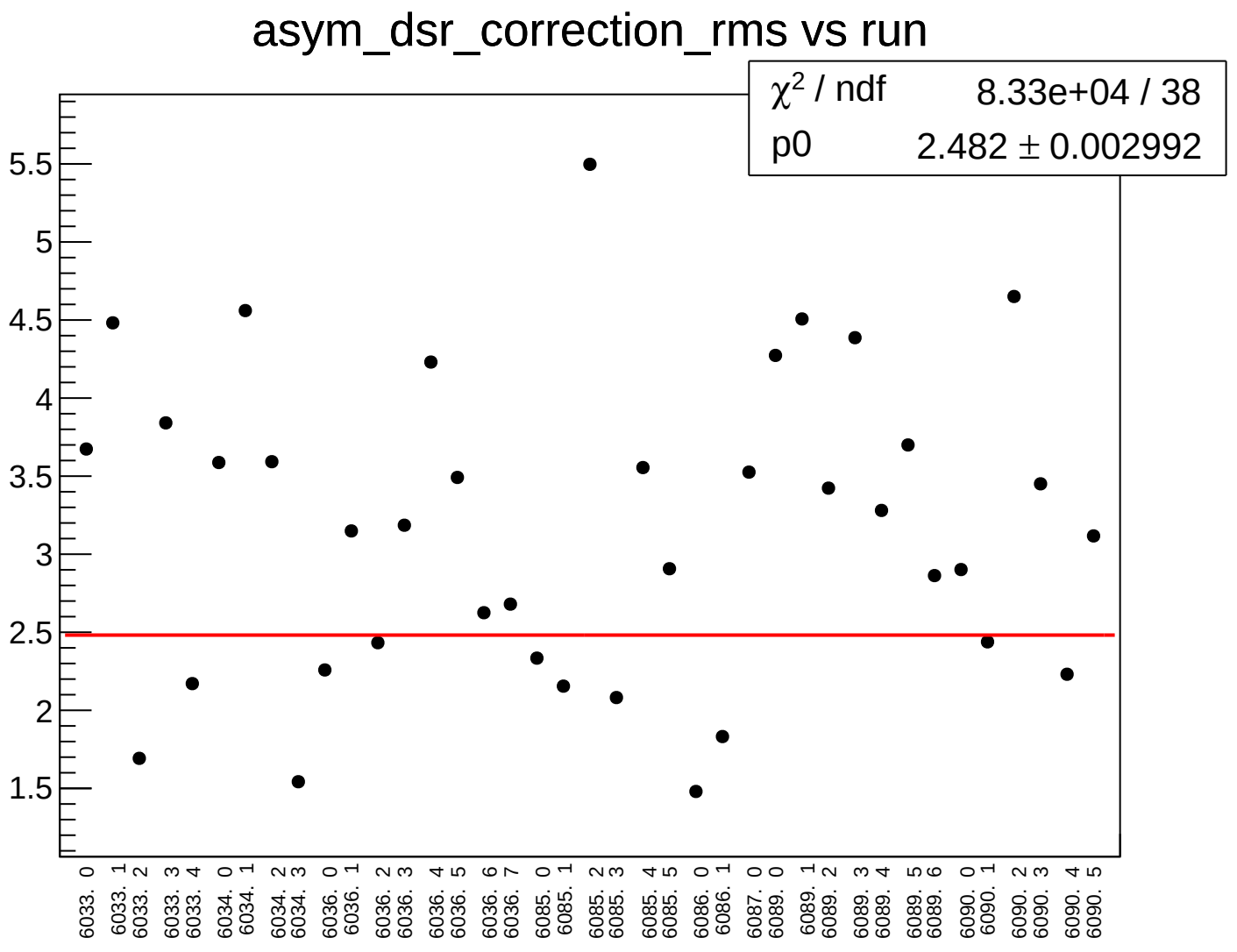

asym_dsl_rms vs run
χ^2 / ndf 85.74 / 38
p0 102 ± 0.1161
105
104
103
102
101
100
99
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

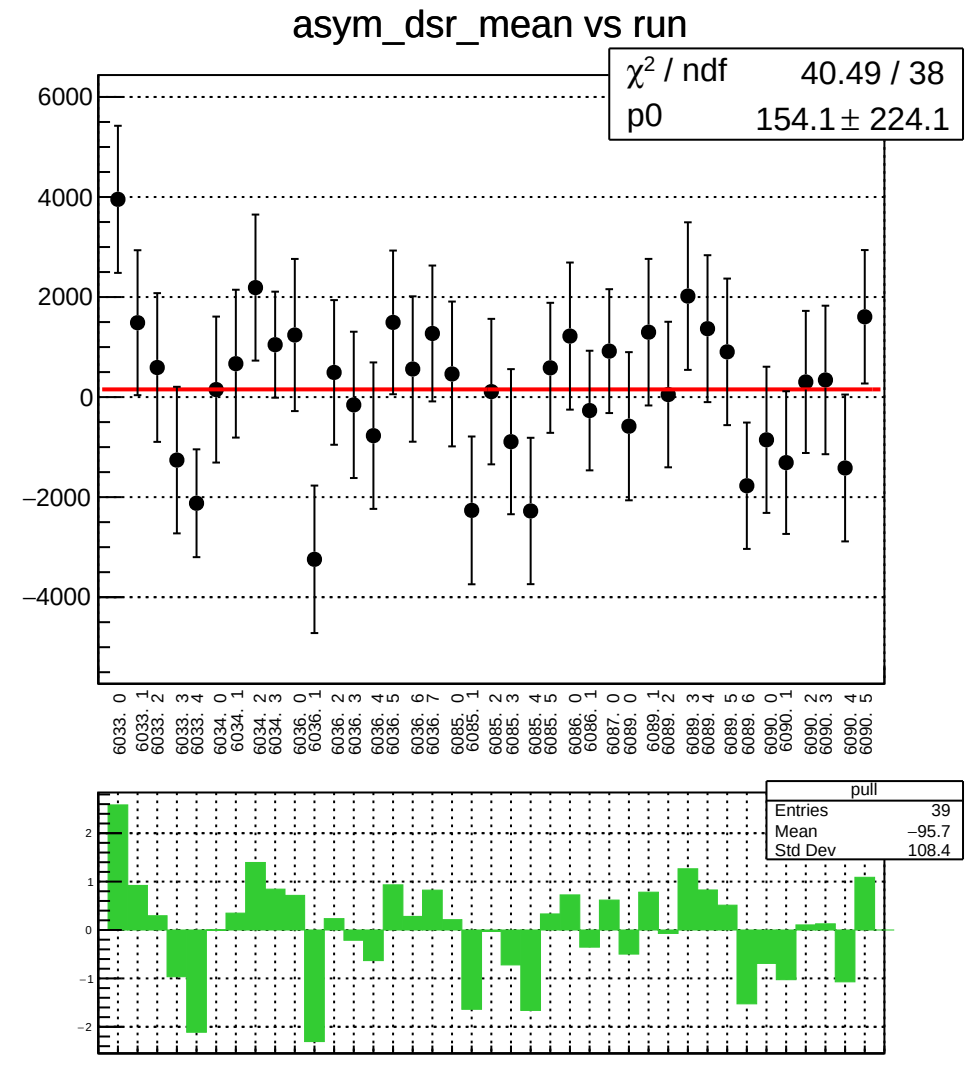

reg_asym_dsr_mean vs run
χ² / ndf 40.15 / 38
p0 157.9 ± 224
6000
4000
2000
0
−2000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −93.11
Std Dev 105.7
2
1
0
−1
−2

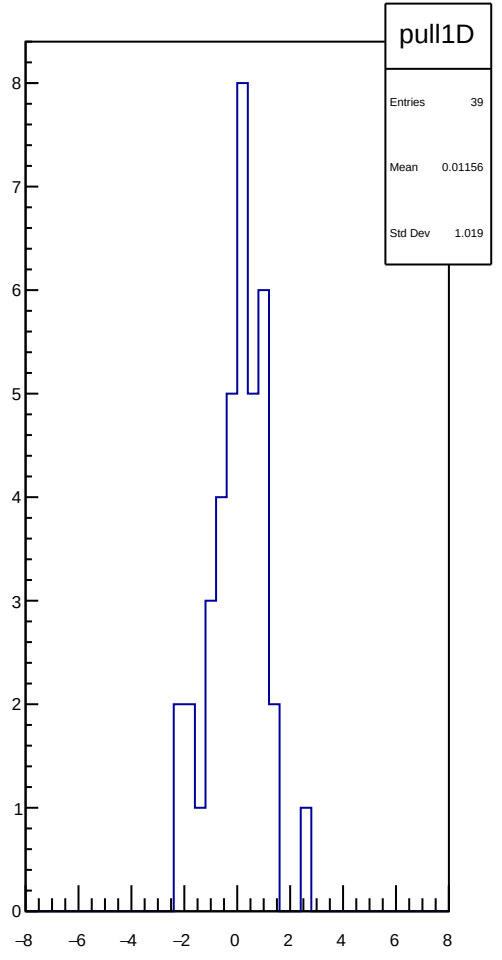

pull1D
Entries 39
Mean 0.0117
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

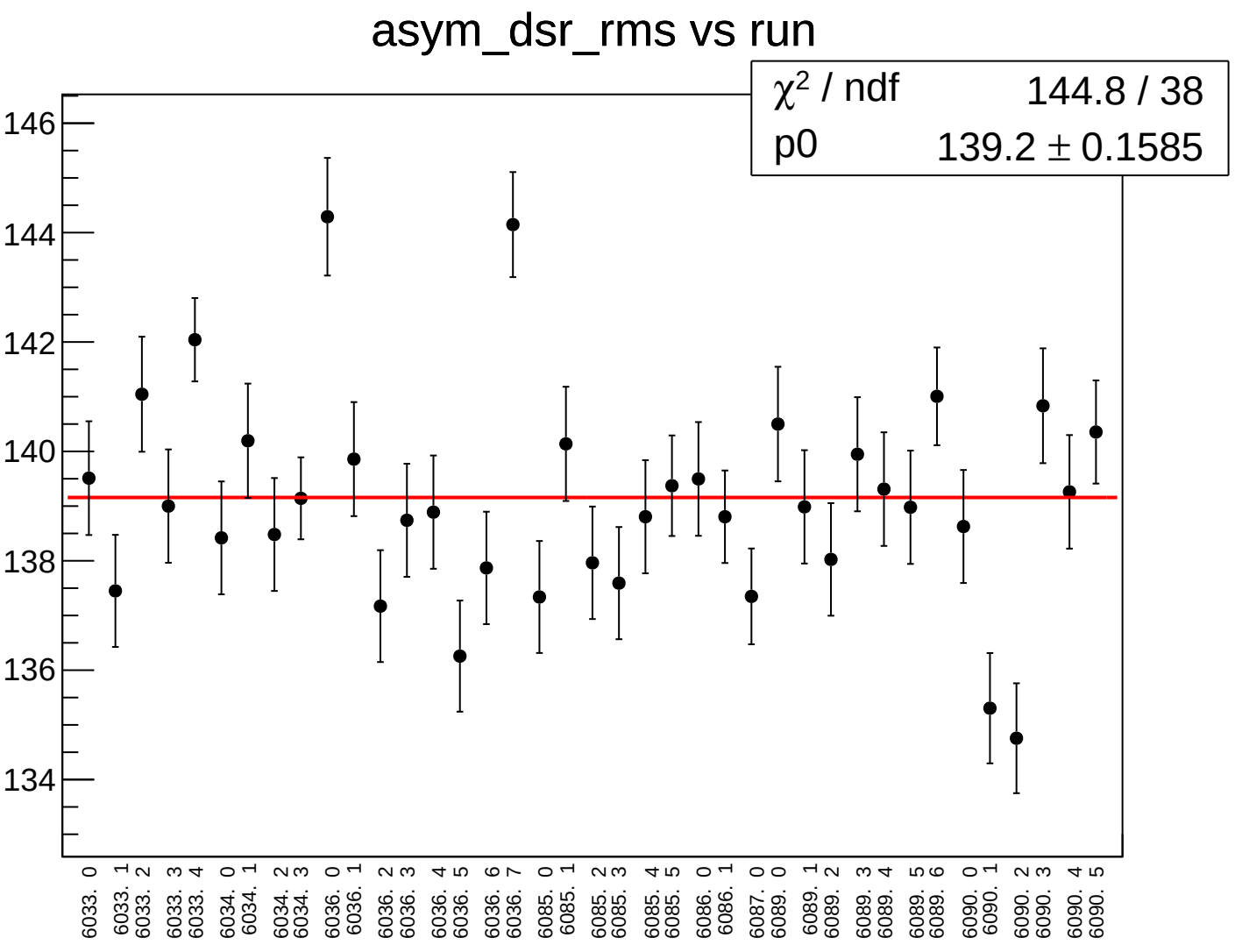

reg_asym_dsr_rms vs run
χ² / ndf 145.8 / 38
p0 139.1 ± 0.1584
146
144
142
140
138
136
134
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

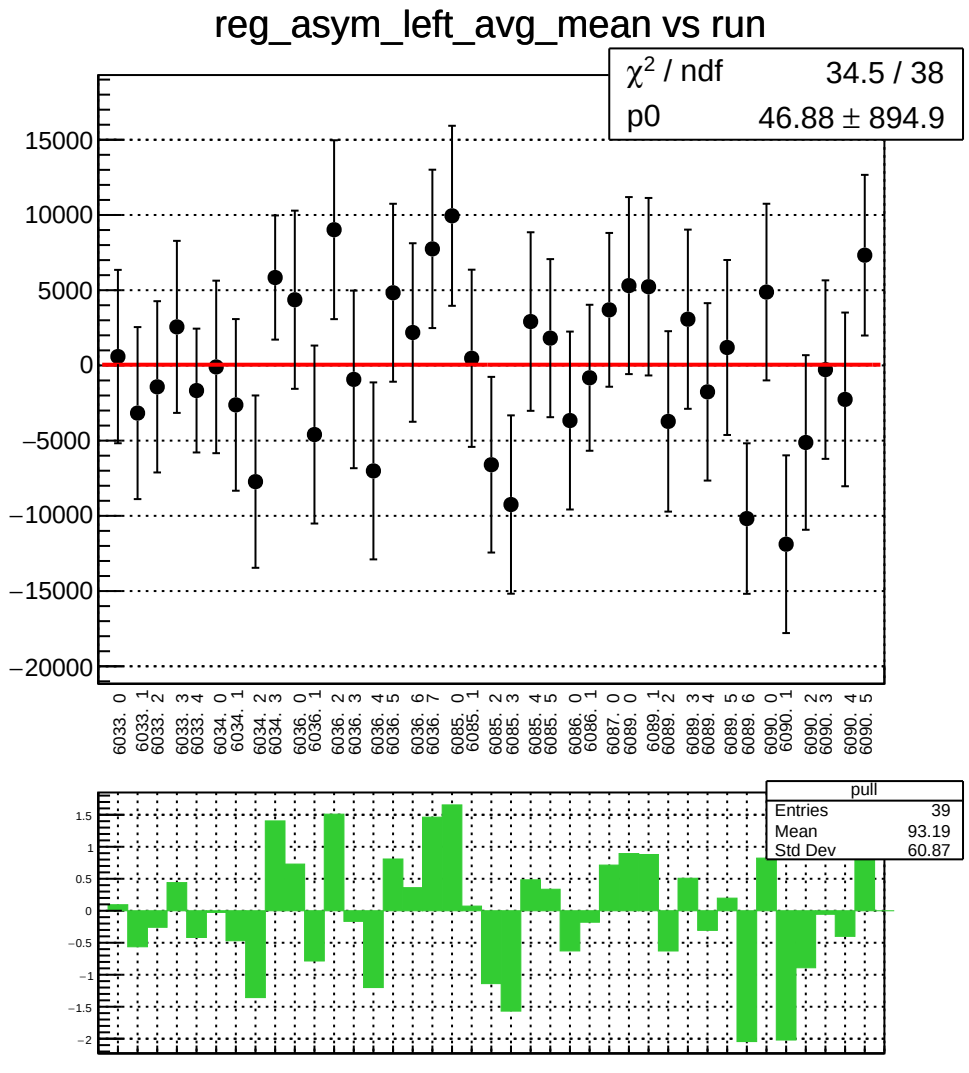

asym_dsr_correction_mean vs run
χ² / ndf 30.21 / 38
p0 4.292 ± 4.231
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 116.9
Std Dev 95.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.008542
Std Dev 0.8801
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

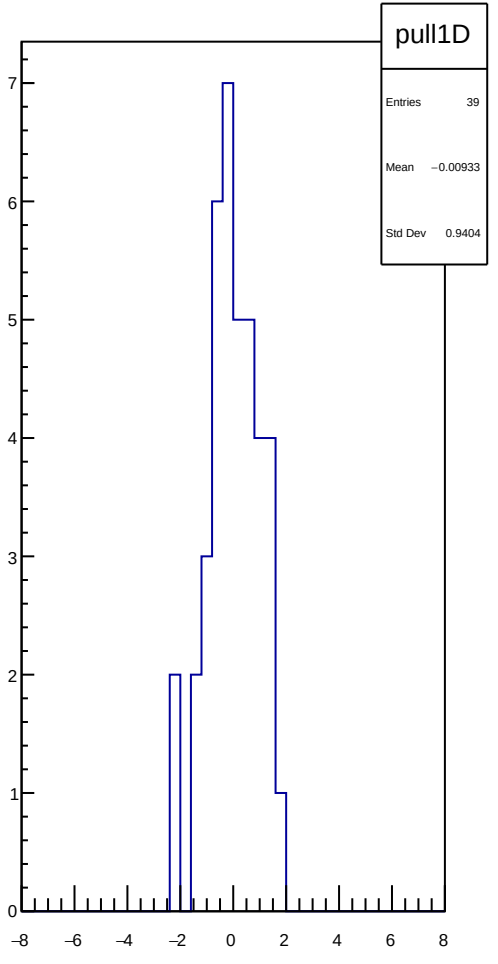

asym_dsr_correction_rms vs run
χ² / ndf 8.33e+04 / 38
p0 2.482 ± 0.002992
5.5
5
4.5
4
3.5
3
2.5
2
1.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

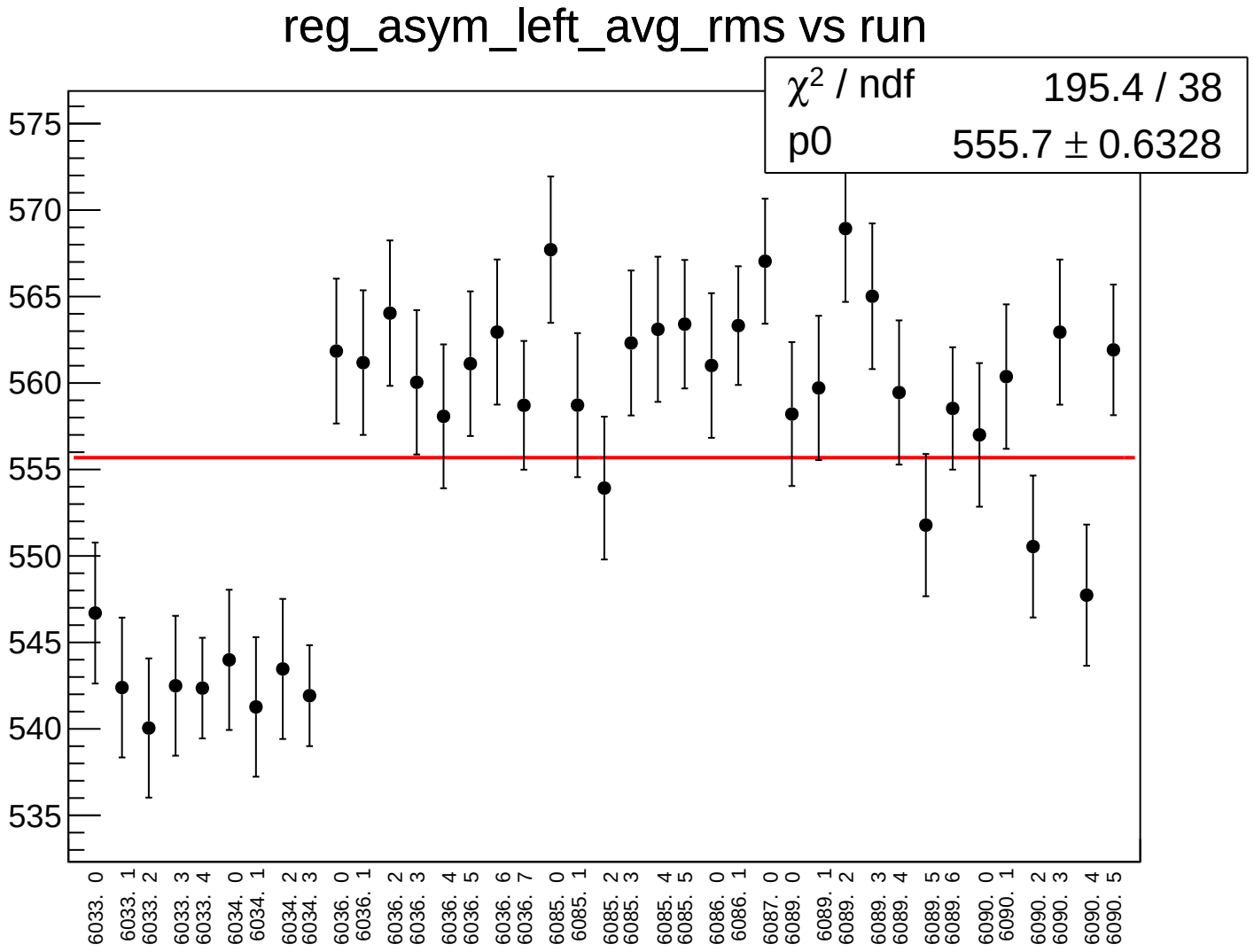

asym_dsr_mean vs run
χ² / ndf 40.49 / 38
p0 154.1 ± 224.1
6000
4000
2000
0
−2000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −95.7
Std Dev 108.4
2
1
0
−1
−2

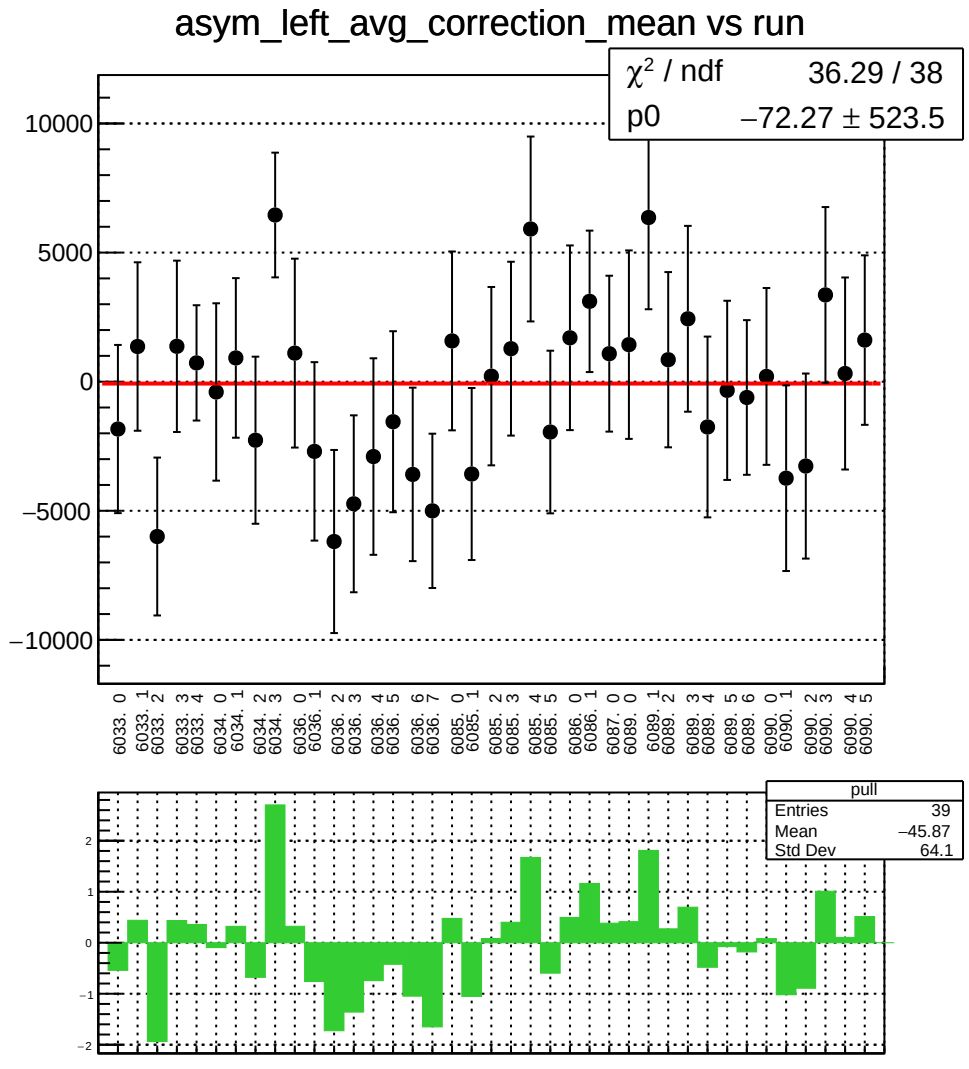

pull1D
Entries 39
Mean 0.01156
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

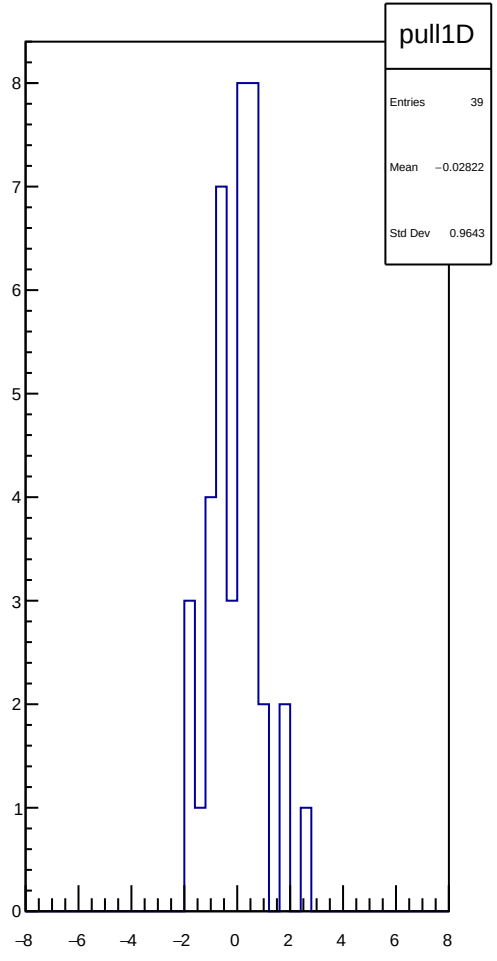

asym_dsr_rms vs run
χ² / ndf 144.8 / 38
p0 139.2 ± 0.1585
146
144
142
140
138
136
134
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

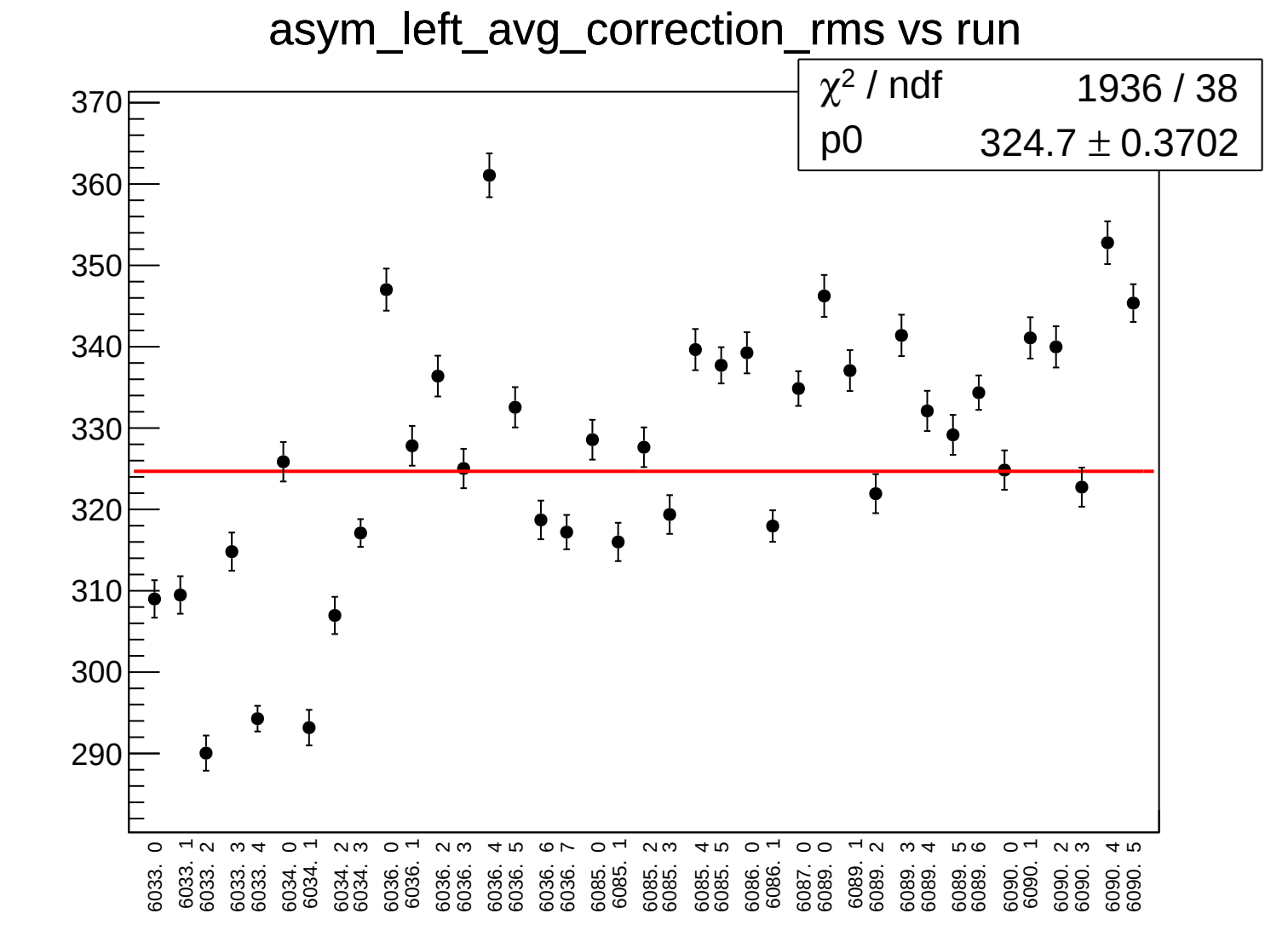

reg_asym_left_avg_mean vs run
χ² / ndf 34.5 / 38
p0 46.88 ± 894.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 93.19
Std Dev 60.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2

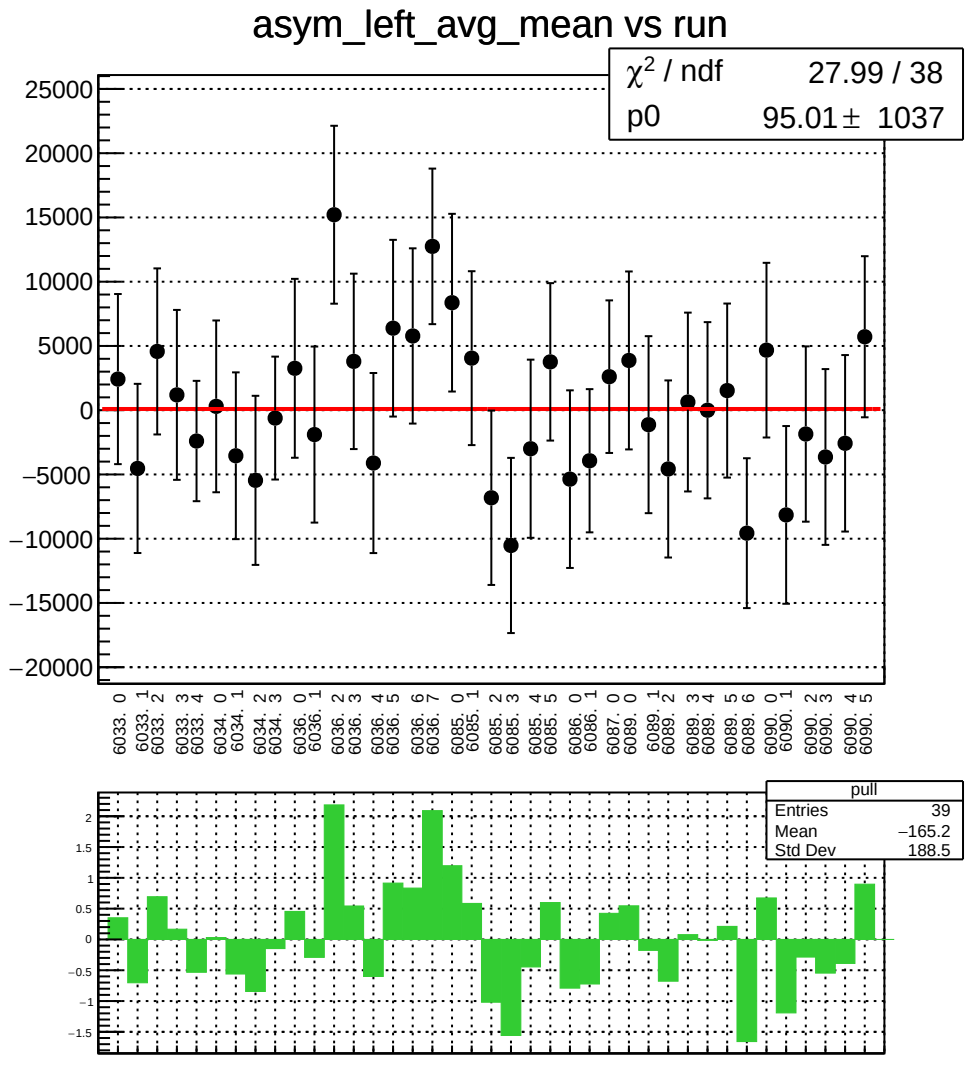

pull1D
Entries 39
Mean −0.00933
Std Dev 0.9404
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

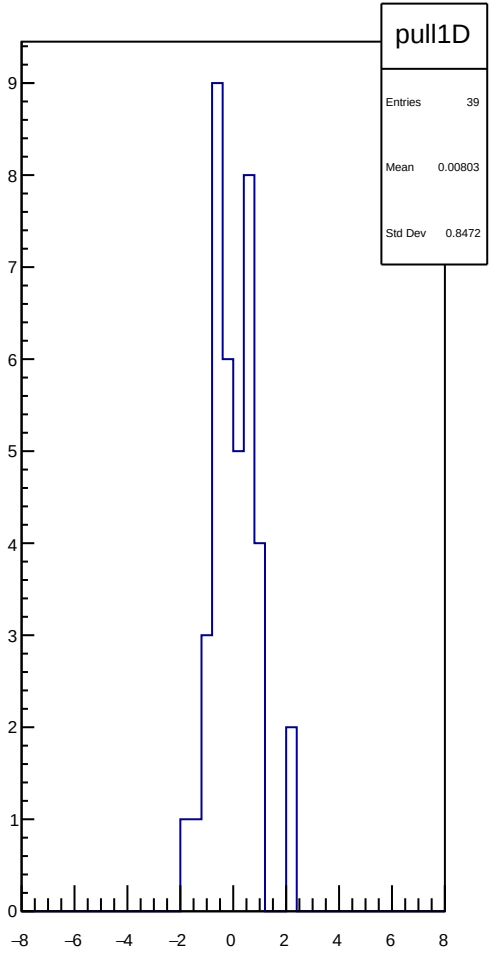

reg_asym_left_avg_rms vs run
χ² / ndf 195.4 / 38
p0 555.7 ± 0.6328
575
570
565
560
555
550
545
540
535
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

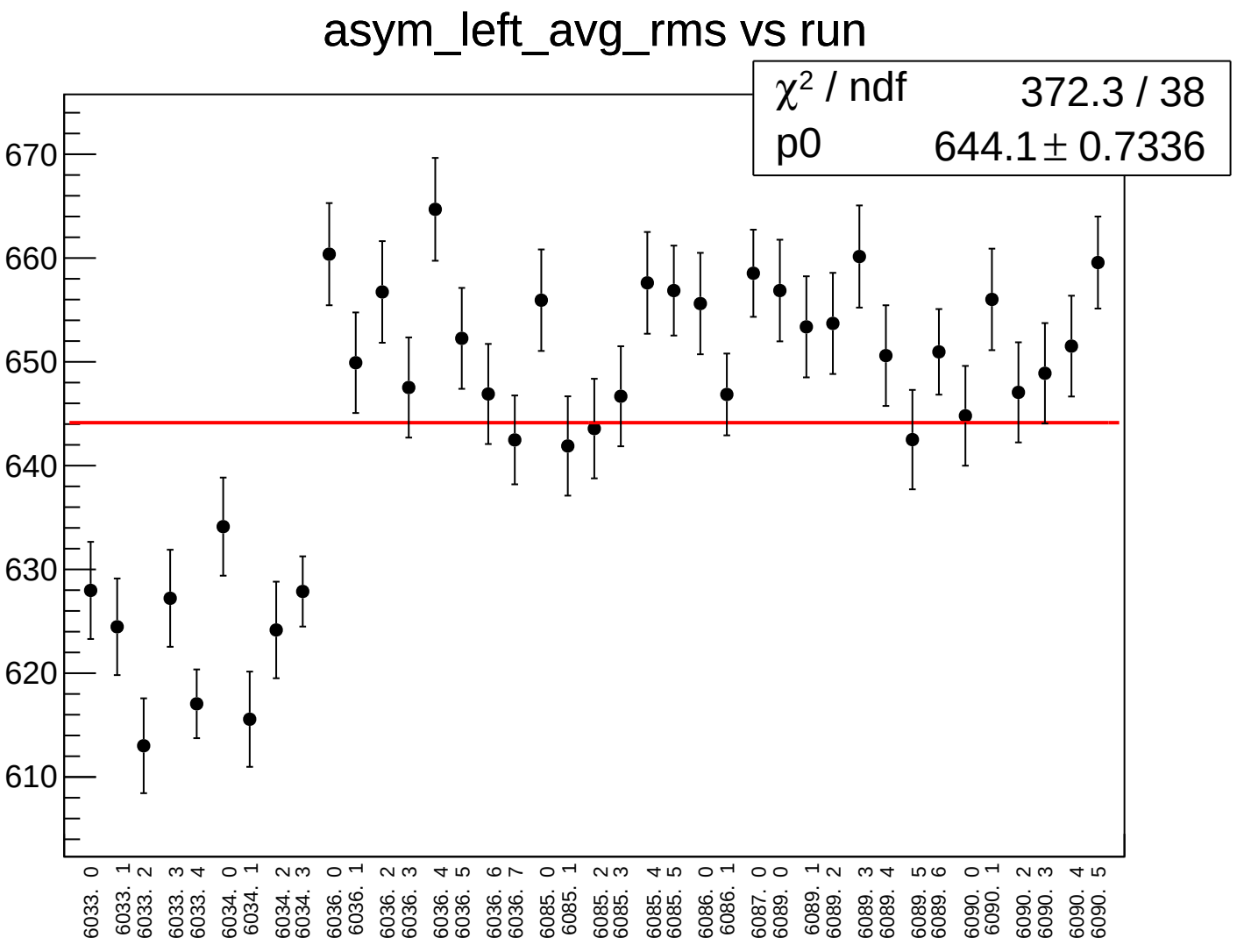

asym_left_avg_correction_mean vs run
χ² / ndf 36.29 / 38
p0 −72.27 ± 523.5
10000
5000
0
−5000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −45.87
Std Dev 64.1
2
1
0
−1
−2

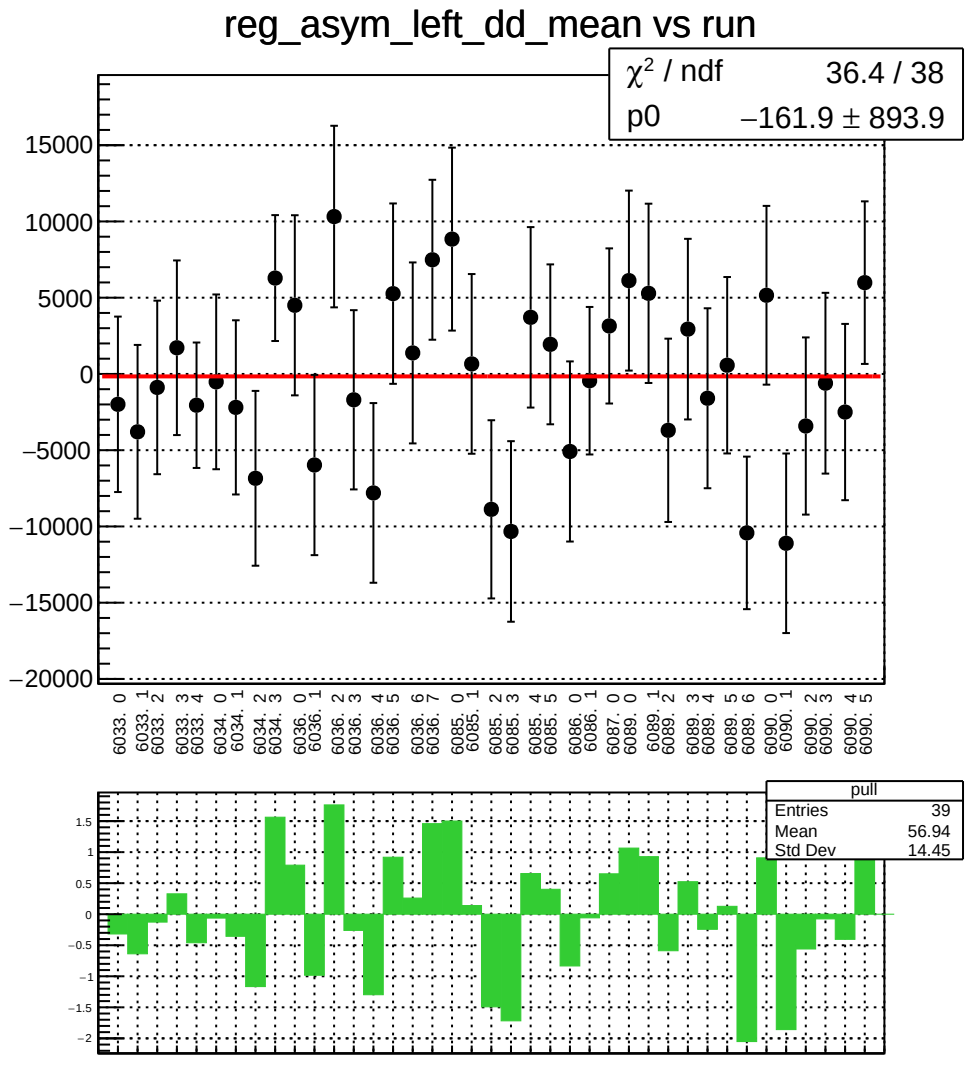

pull1D
Entries 39
Mean −0.02822
Std Dev 0.9643
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

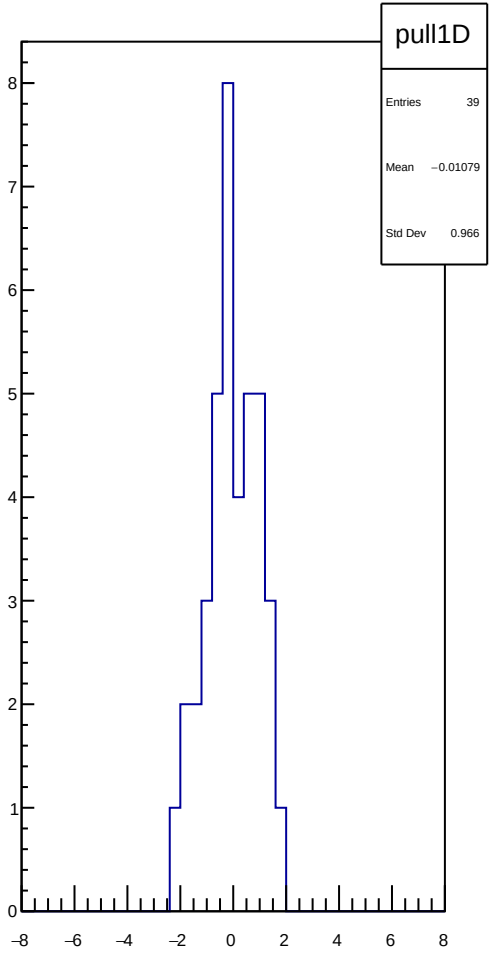

asym_left_avg_correction_rms vs run
χ² / ndf 1936 / 38
p0 324.7 ± 0.3702
370
360
350
340
330
320
310
300
290
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

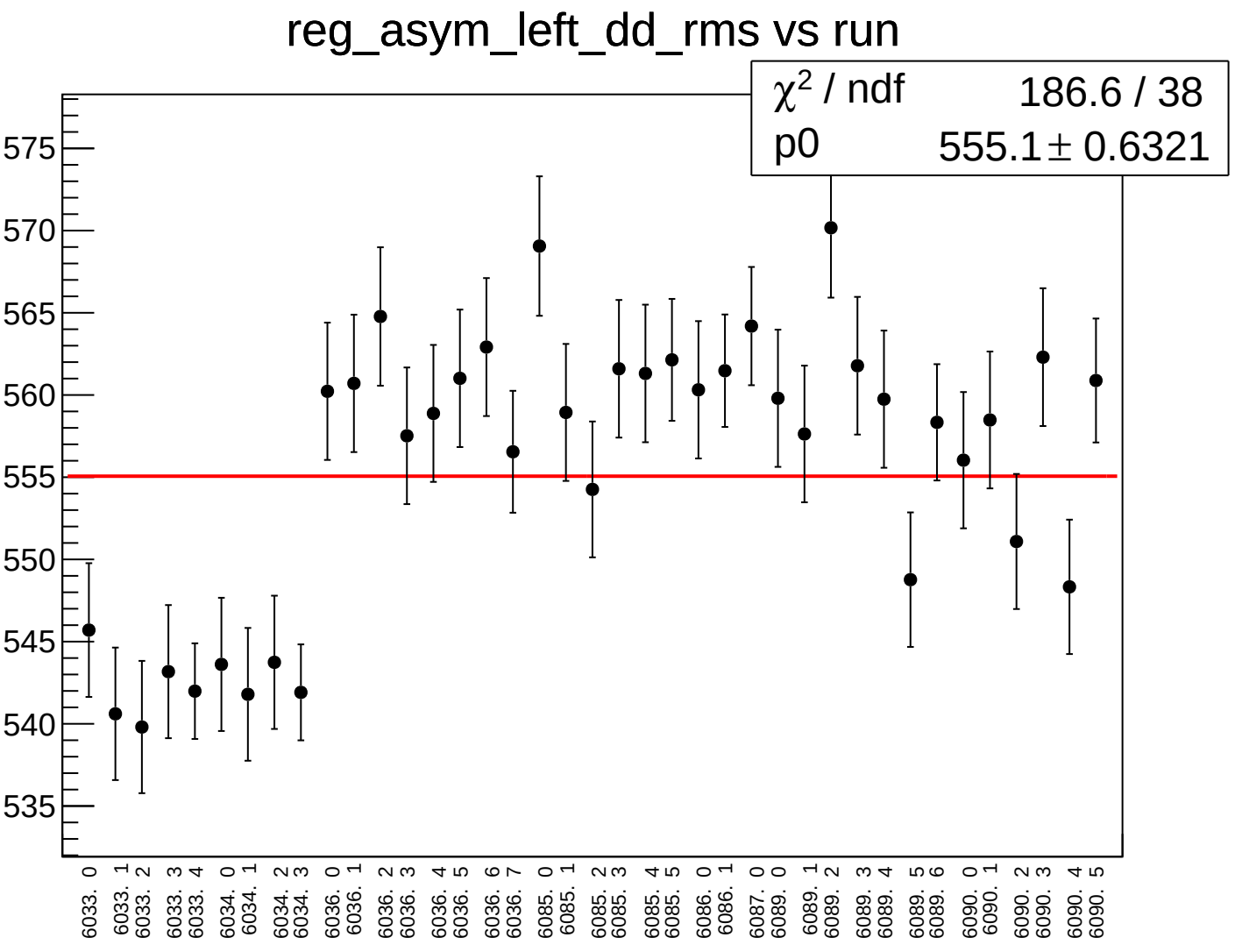

asym_left_avg_mean vs run
χ² / ndf 27.99 / 38
p0 95.01 ± 1037
pull
Entries 39
Mean −165.2
Std Dev 188.5

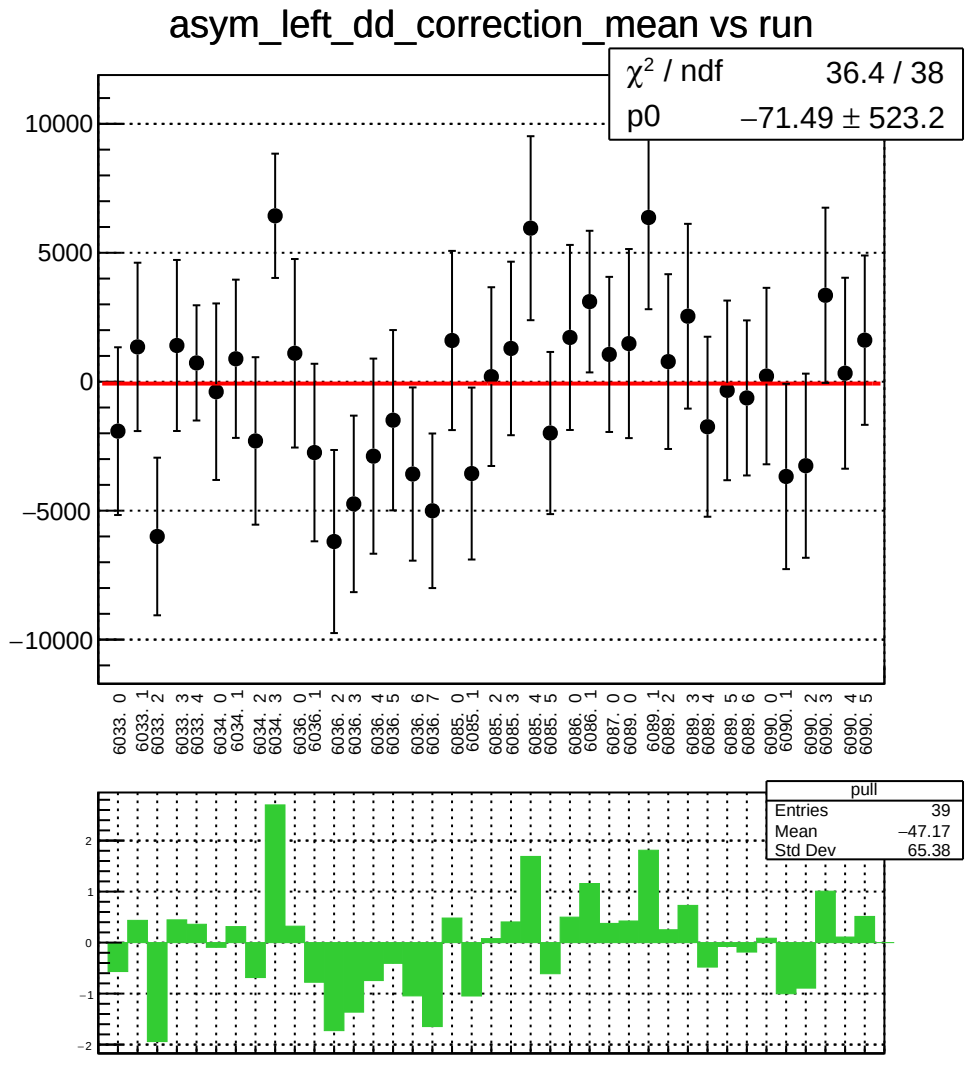

pull1D
Entries 39
Mean 0.00803
Std Dev 0.8472

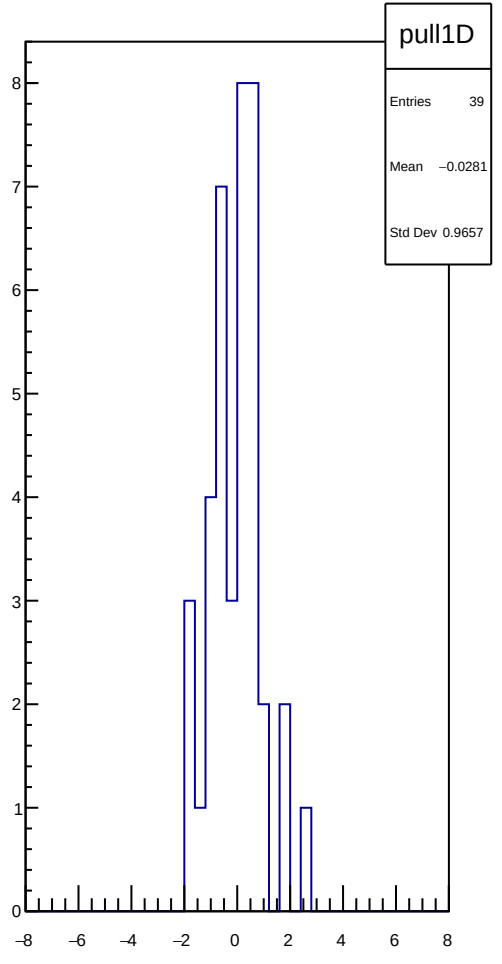

asym_left_avg_rms vs run
χ^2 / ndf 372.3 / 38
p0 644.1 ± 0.7336
670
660
650
640
630
620
610
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

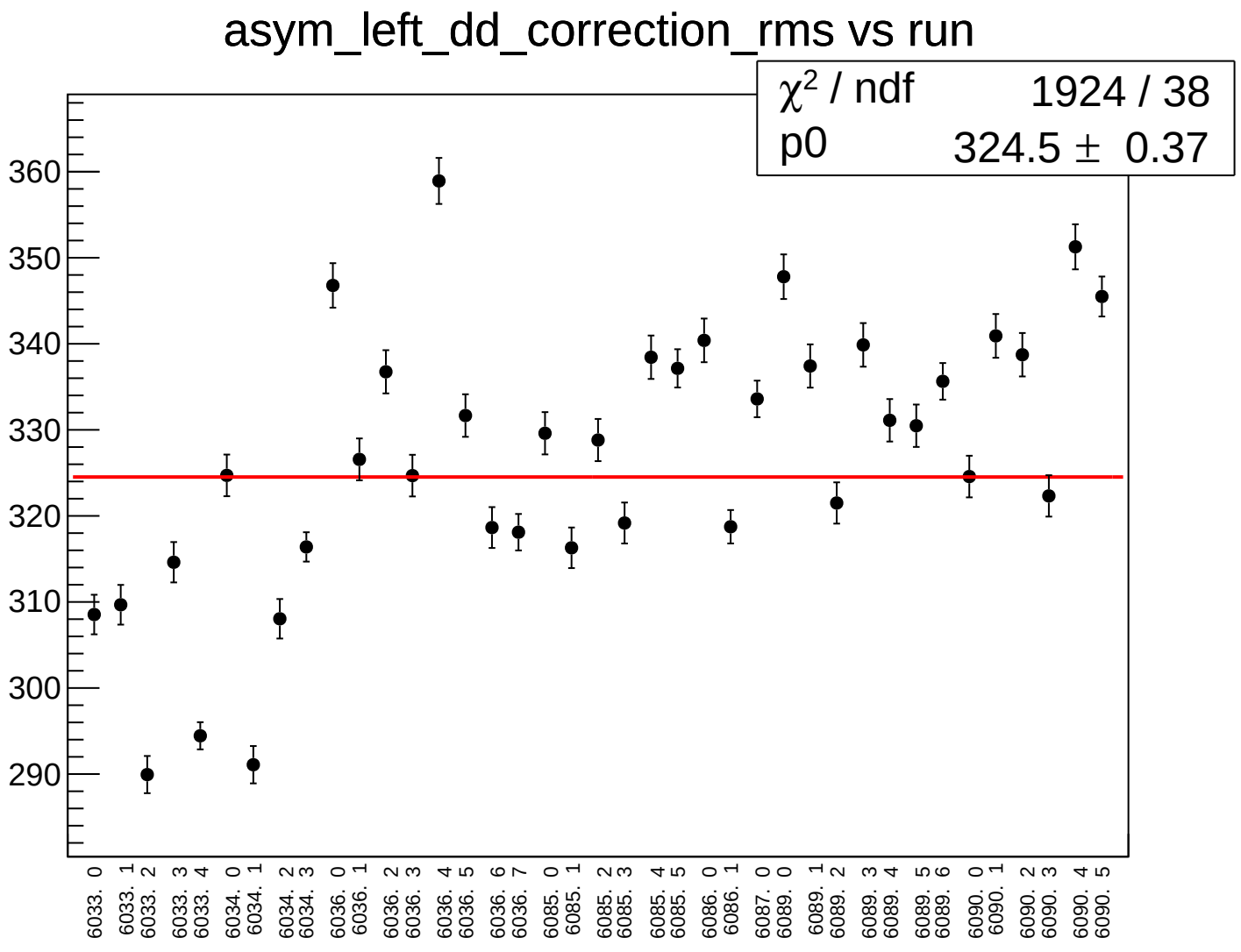

reg_asym_left_dd_mean vs run
χ² / ndf 36.4 / 38
p0 −161.9 ± 893.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 56.94
Std Dev 14.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2

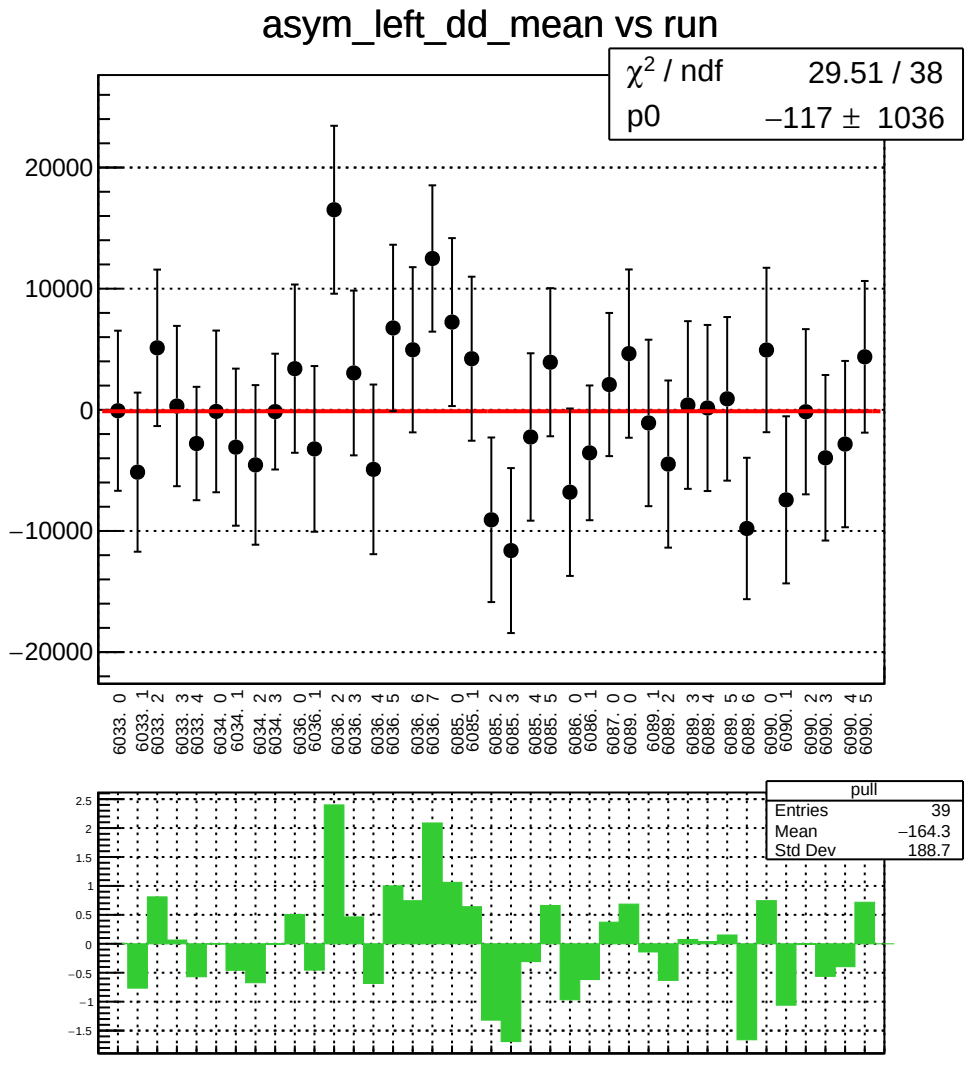

pull1D
Entries 39
Mean −0.01079
Std Dev 0.966
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

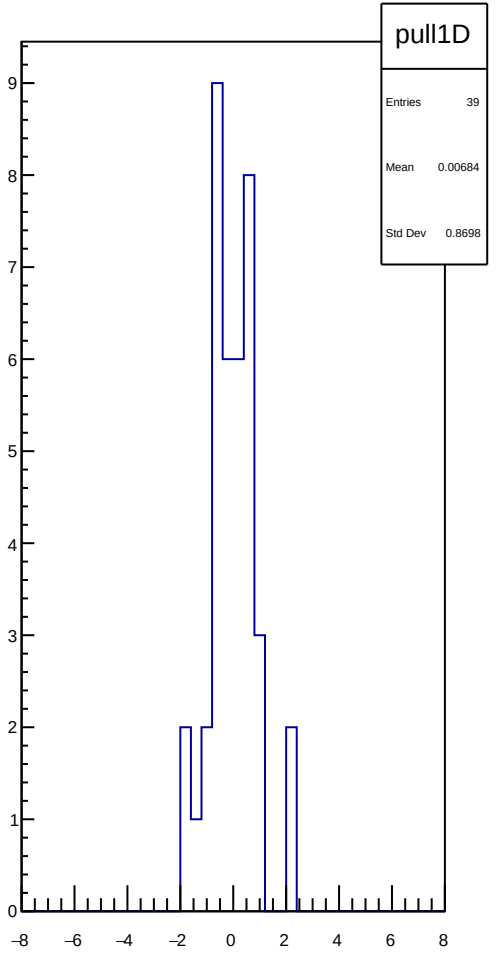

reg_asym_left_dd_rms vs run
χ² / ndf 186.6 / 38
p0 555.1 ± 0.6321
575
570
565
560
555
550
545
540
535
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

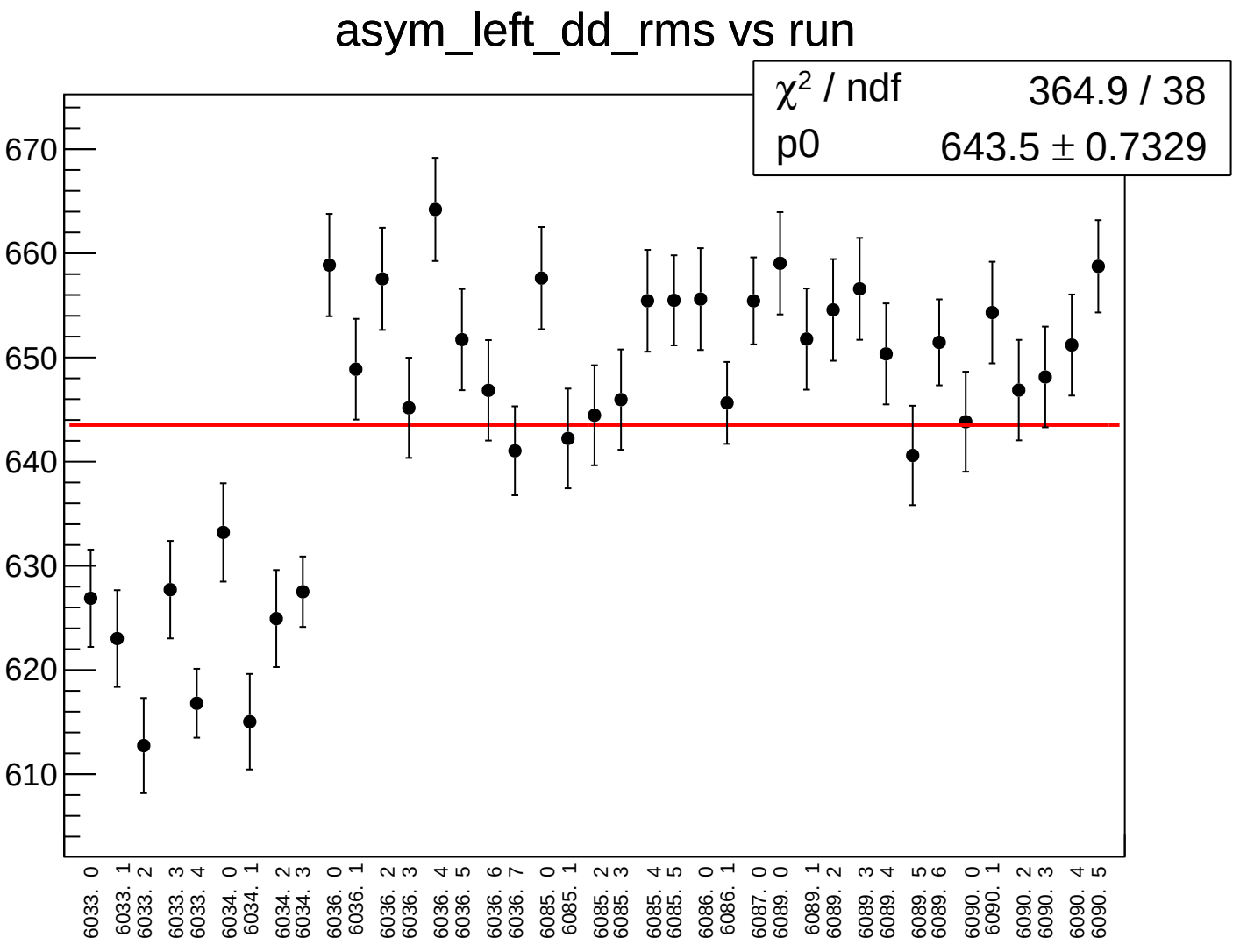

asym_left_dd_correction_mean vs run
χ² / ndf 36.4 / 38
p0 −71.49 ± 523.2
10000
5000
0
−5000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −47.17
Std Dev 65.38
2
1
0
−1
−2

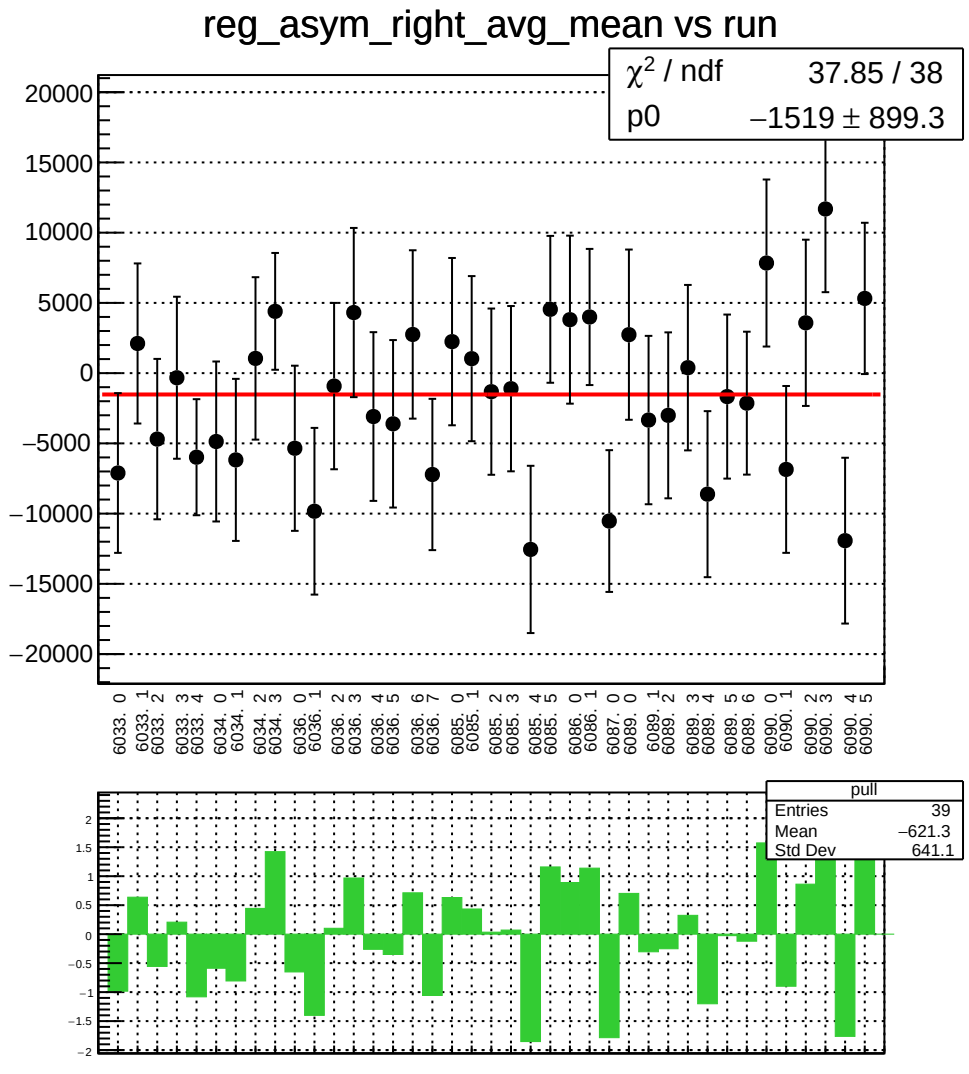

pull1D
Entries 39
Mean −0.0281
Std Dev 0.9657
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

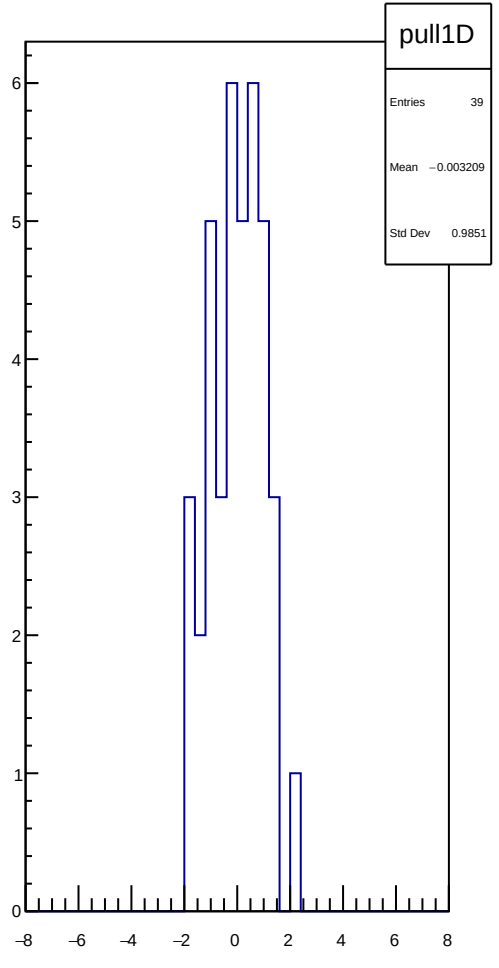

asym_left_dd_correction_rms vs run
χ² / ndf 1924 / 38
p0 324.5 ± 0.37
360
350
340
330
320
310
300
290
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

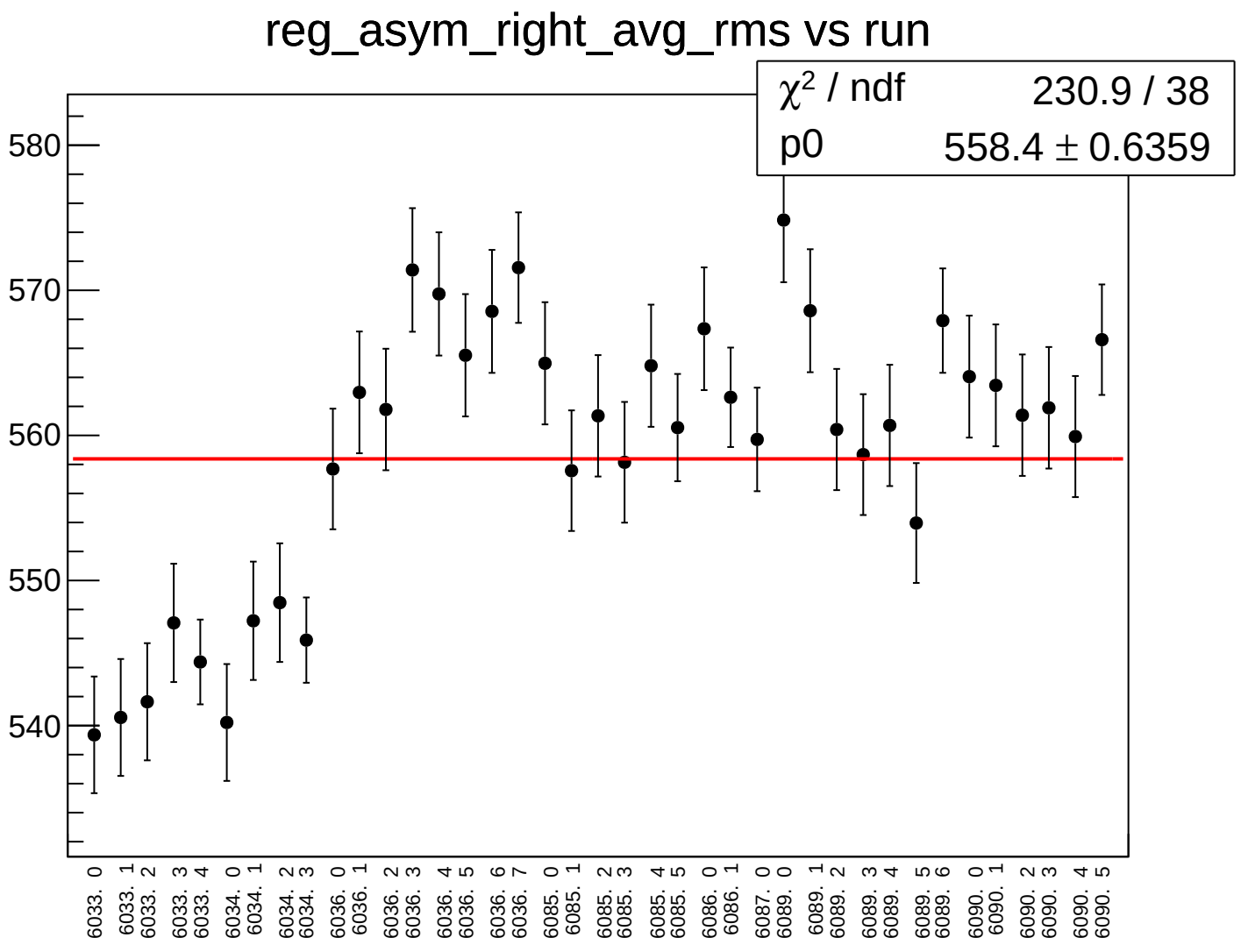

asym_left_dd_mean vs run
χ² / ndf 29.51 / 38
p0 −117 ± 1036
20000
10000
0
−10000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −164.3
Std Dev 188.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

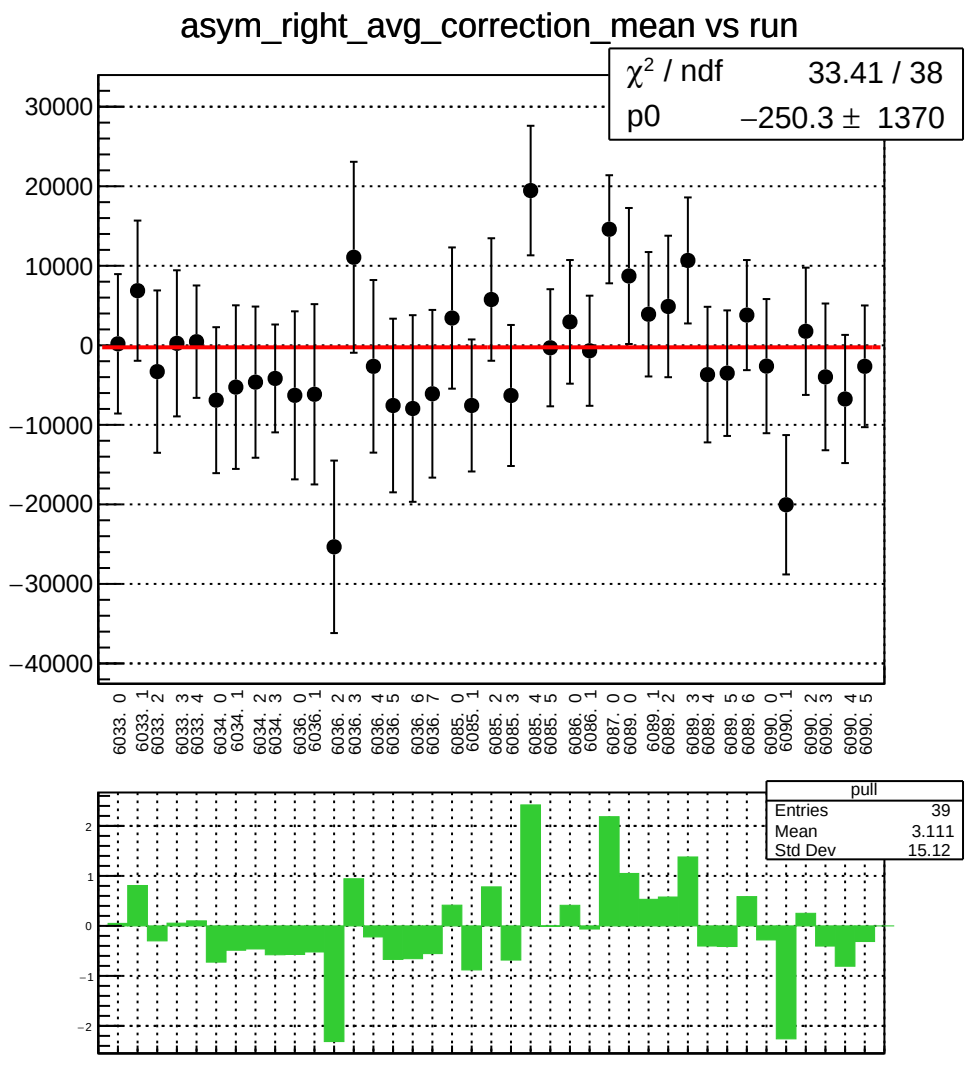

pull1D
Entries 39
Mean 0.00684
Std Dev 0.8698
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

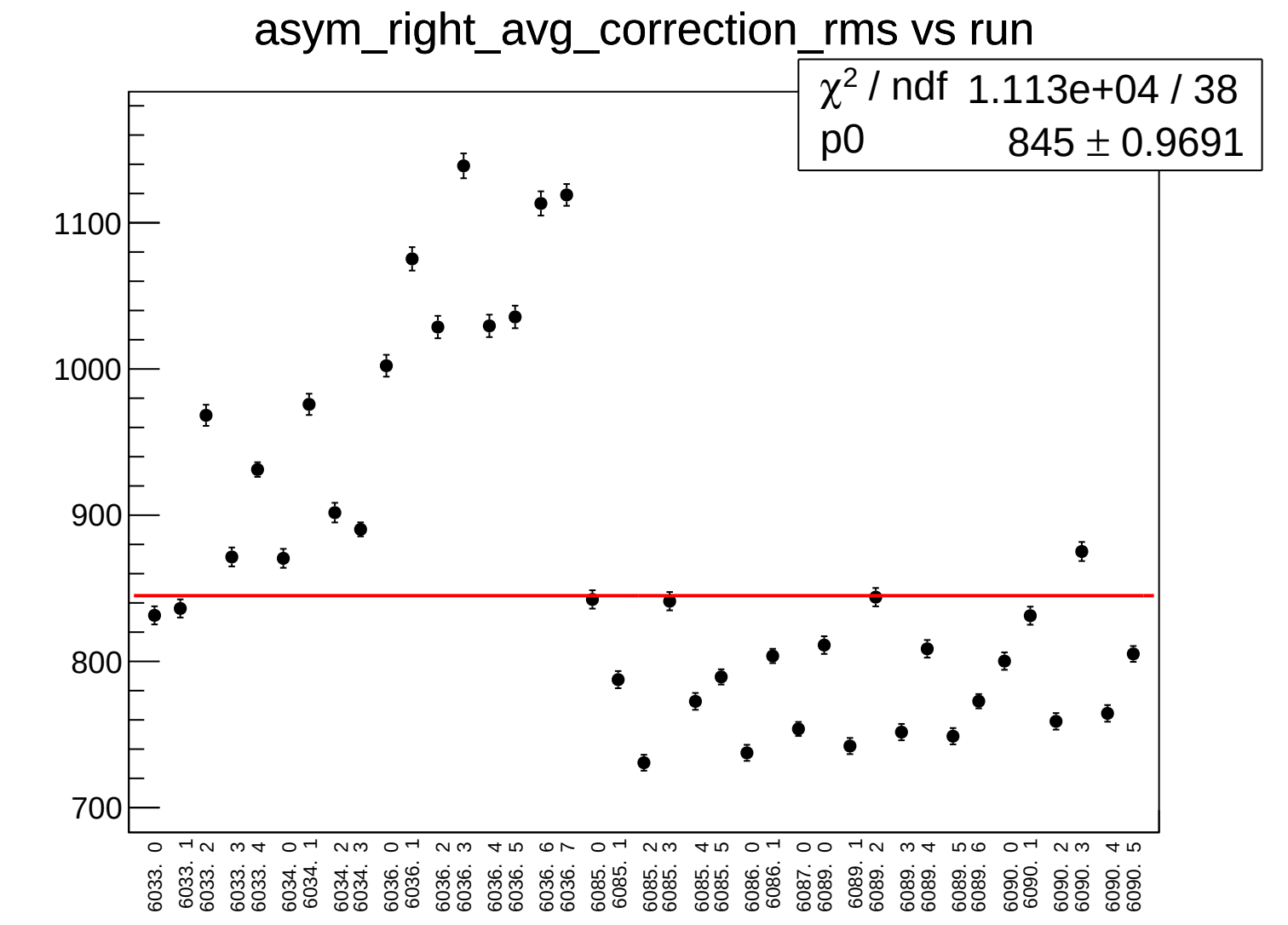

asym_left_dd_rms vs run
χ^2 / ndf 364.9 / 38
p0 643.5 ± 0.7329
670
660
650
640
630
620
610
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

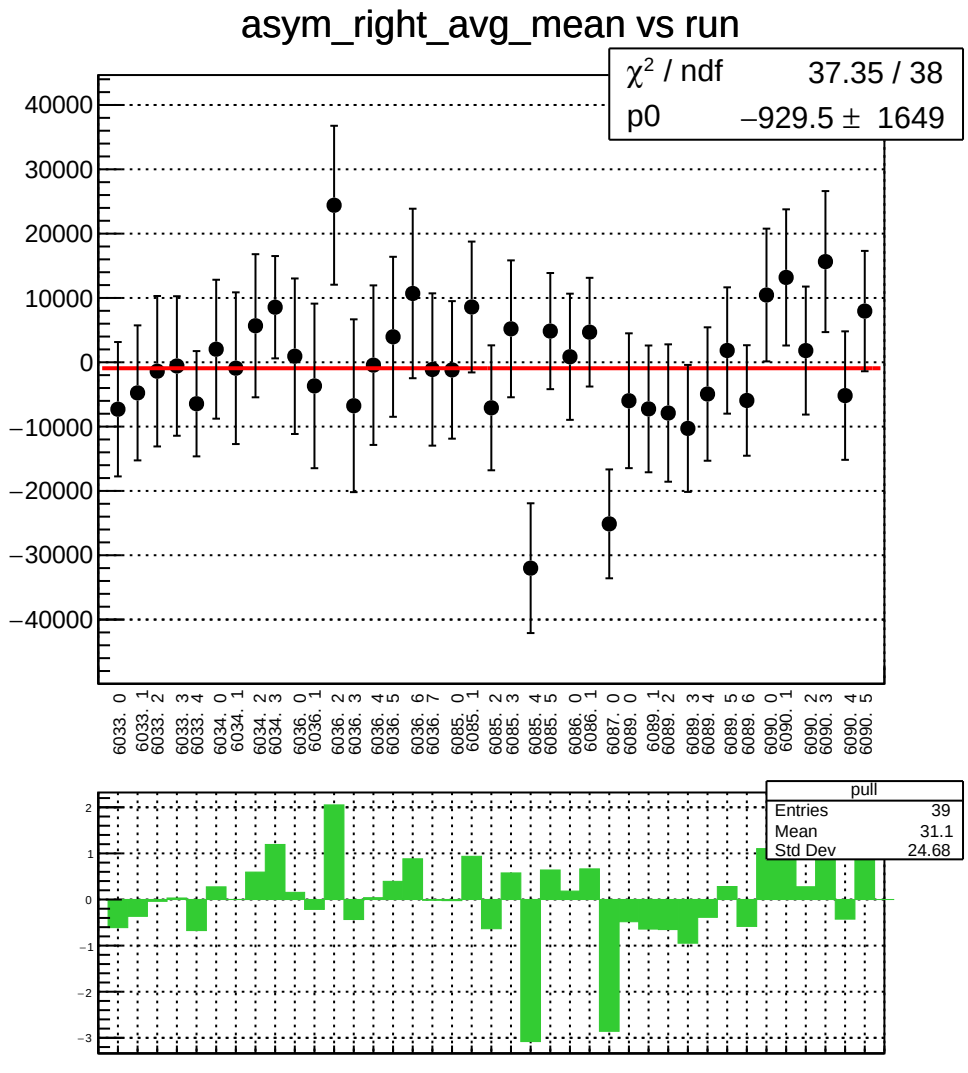

reg_asym_right_avg_mean vs run
χ² / ndf 37.85 / 38
p0 −1519 ± 899.3
pull
Entries 39
Mean −621.3
Std Dev 641.1

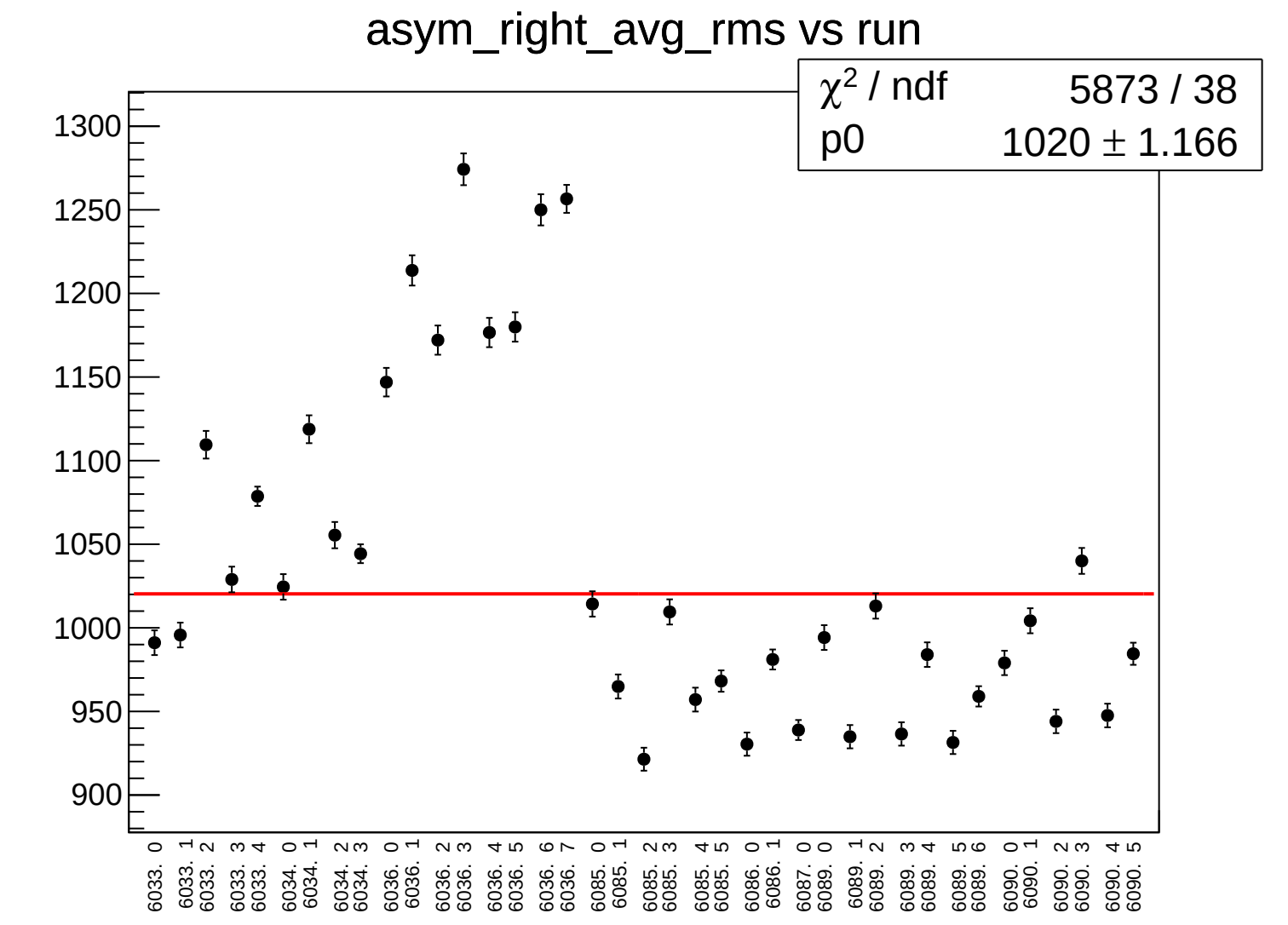

pull1D
Entries 39
Mean −0.003209
Std Dev 0.9851

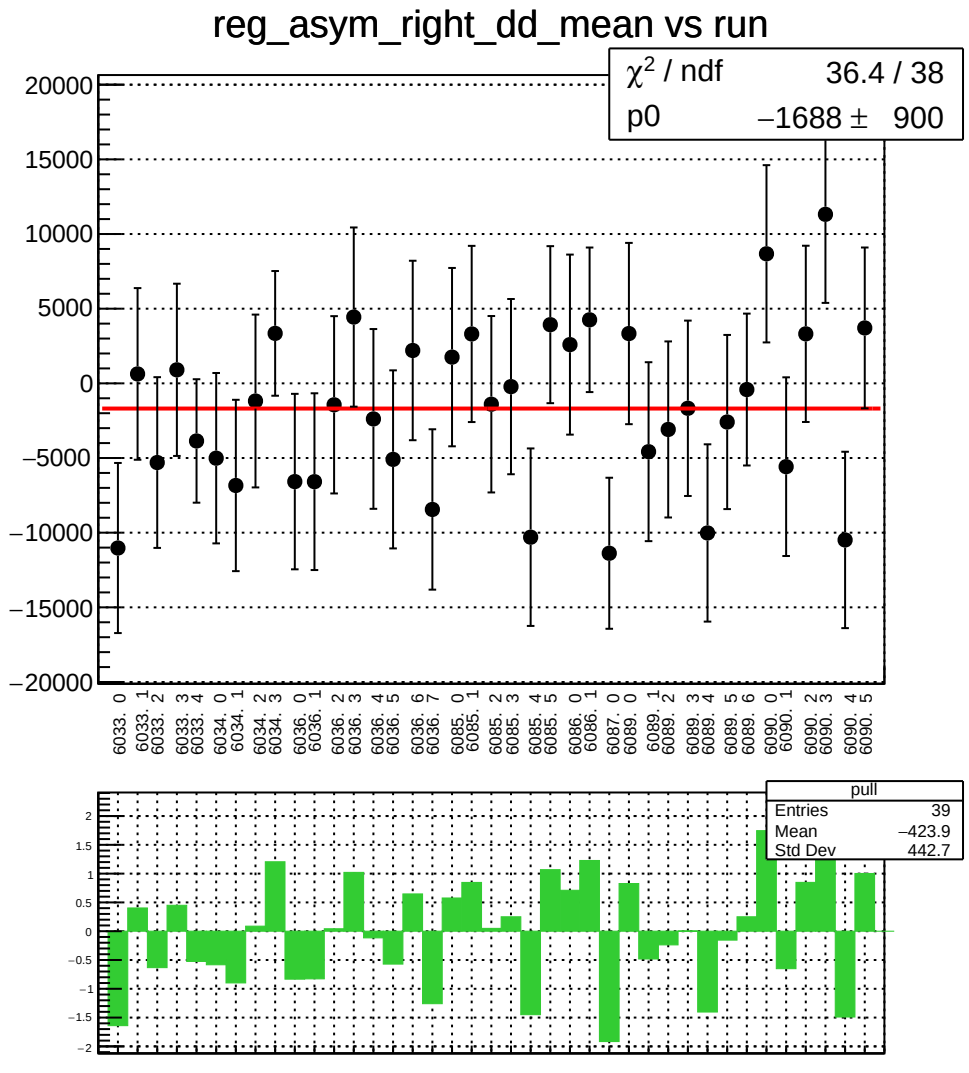

reg_asym_right_avg_rms vs run
χ² / ndf 230.9 / 38
p0 558.4 ± 0.6359
580
570
560
550
540
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

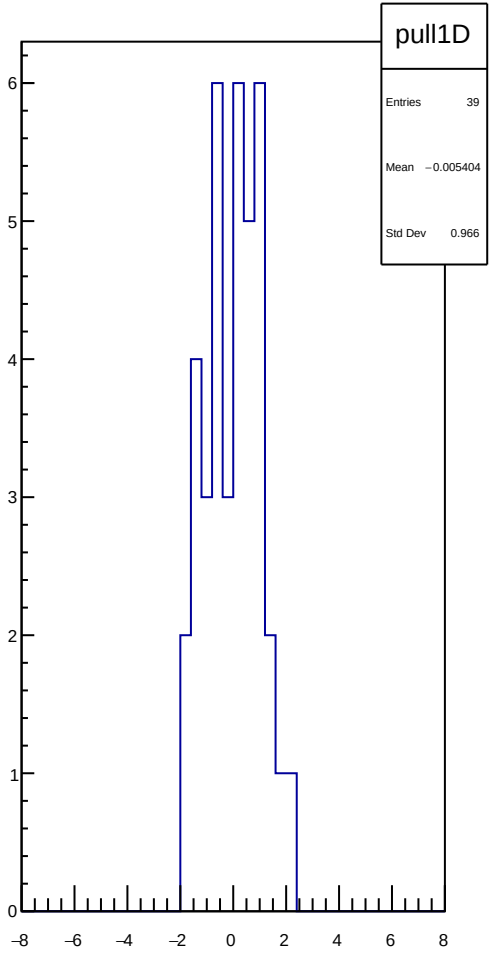

asym_right_avg_correction_mean vs run
χ² / ndf 33.41 / 38
p0 −250.3 ± 1370
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.111
Std Dev 15.12
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05193
Std Dev 0.9241
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

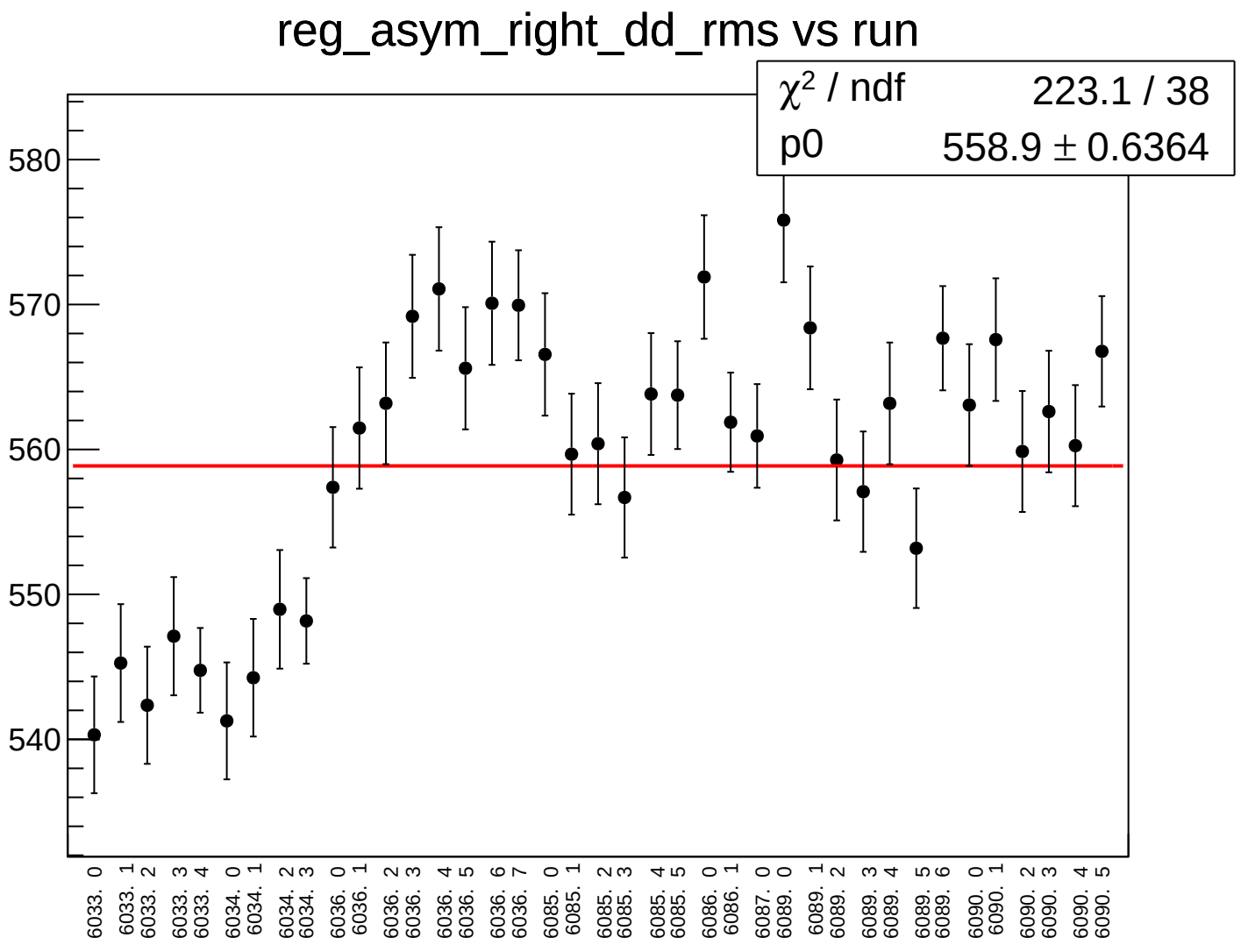

asym_right_avg_correction_rms vs run
χ² / ndf 1.113e+04 / 38
p0 845 ± 0.9691
1100
1000
900
800
700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

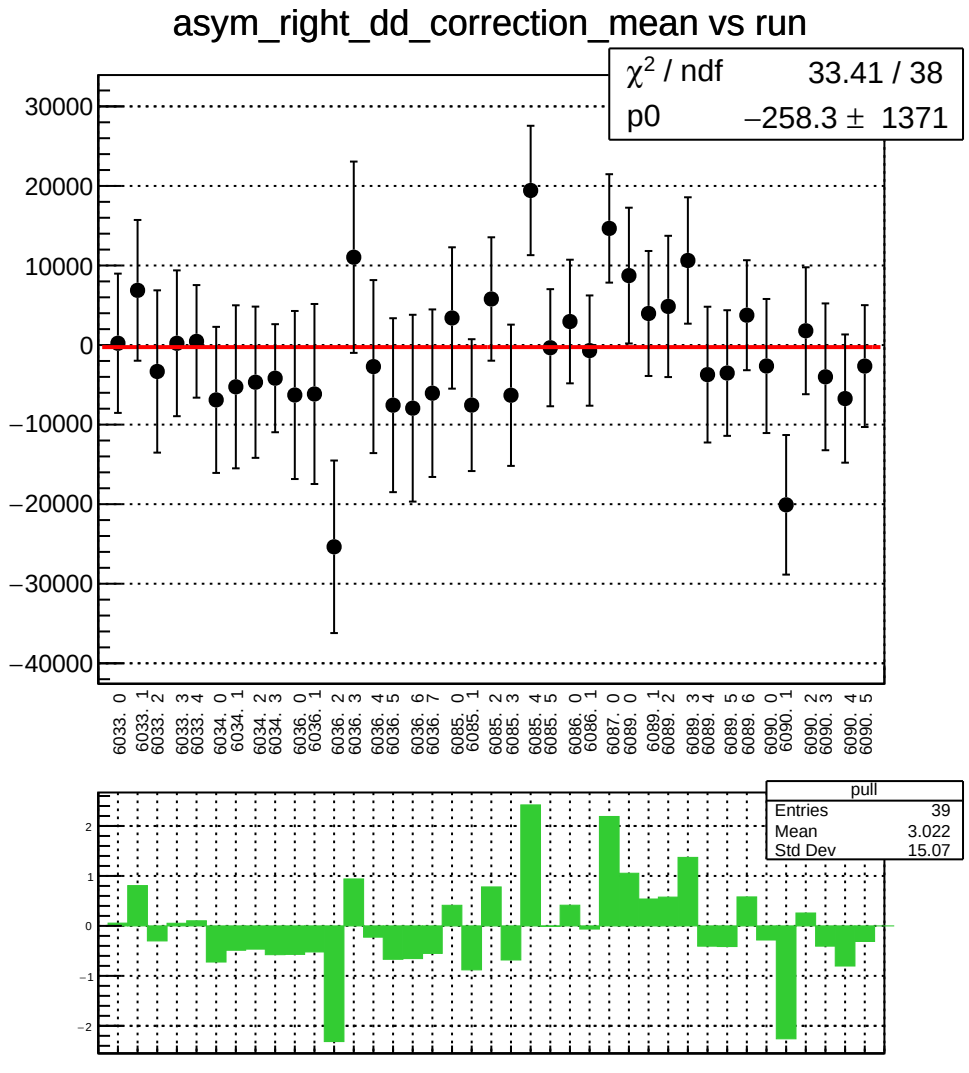

asym_right_avg_mean vs run
χ² / ndf 37.35 / 38
p0 −929.5 ± 1649
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 31.1
Std Dev 24.68
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.0258
Std Dev 0.9782
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

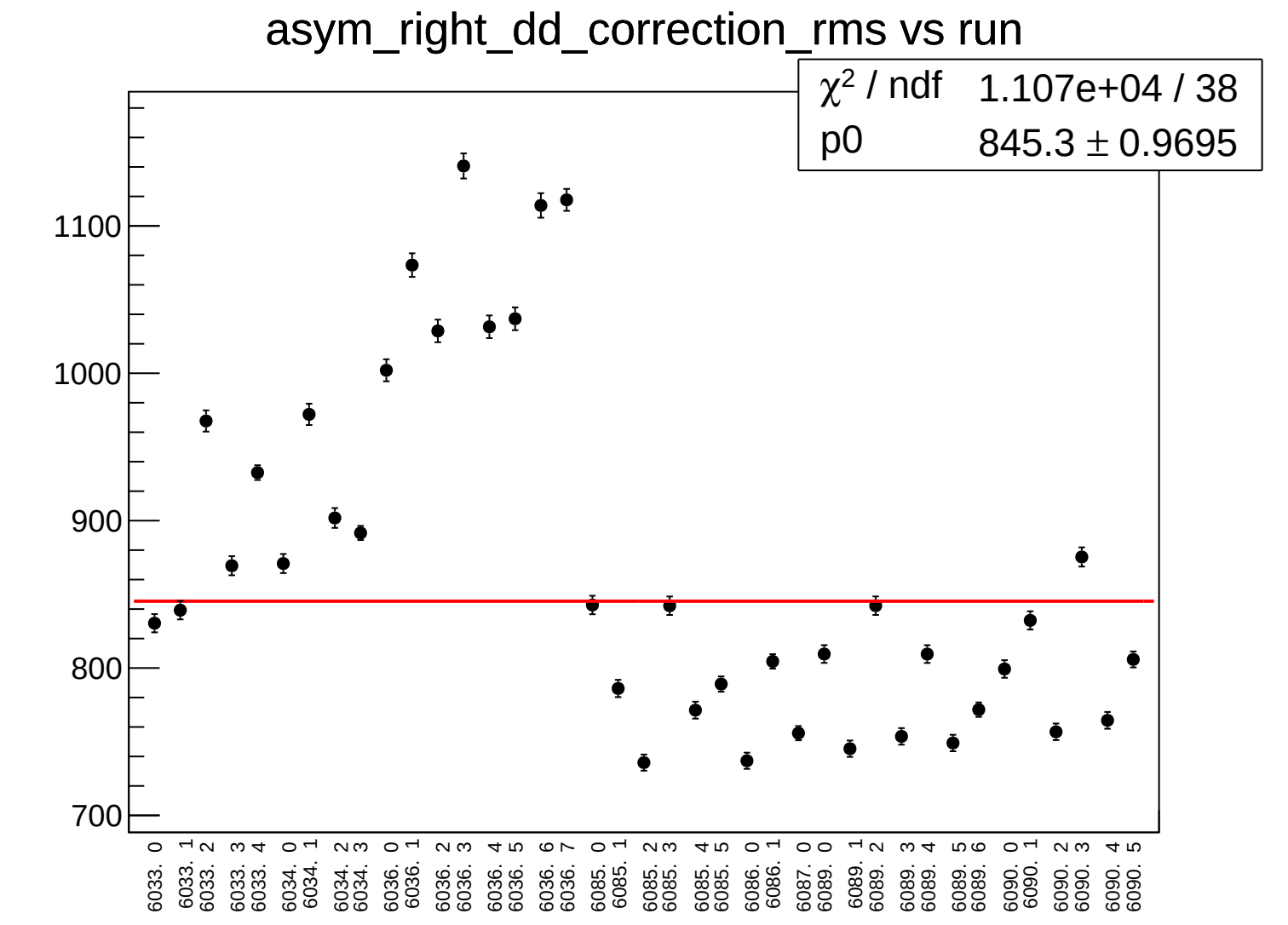

asym_right_avg_rms vs run
χ² / ndf 5873 / 38
p0 1020 ± 1.166
1300
1250
1200
1150
1100
1050
1000
950
900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

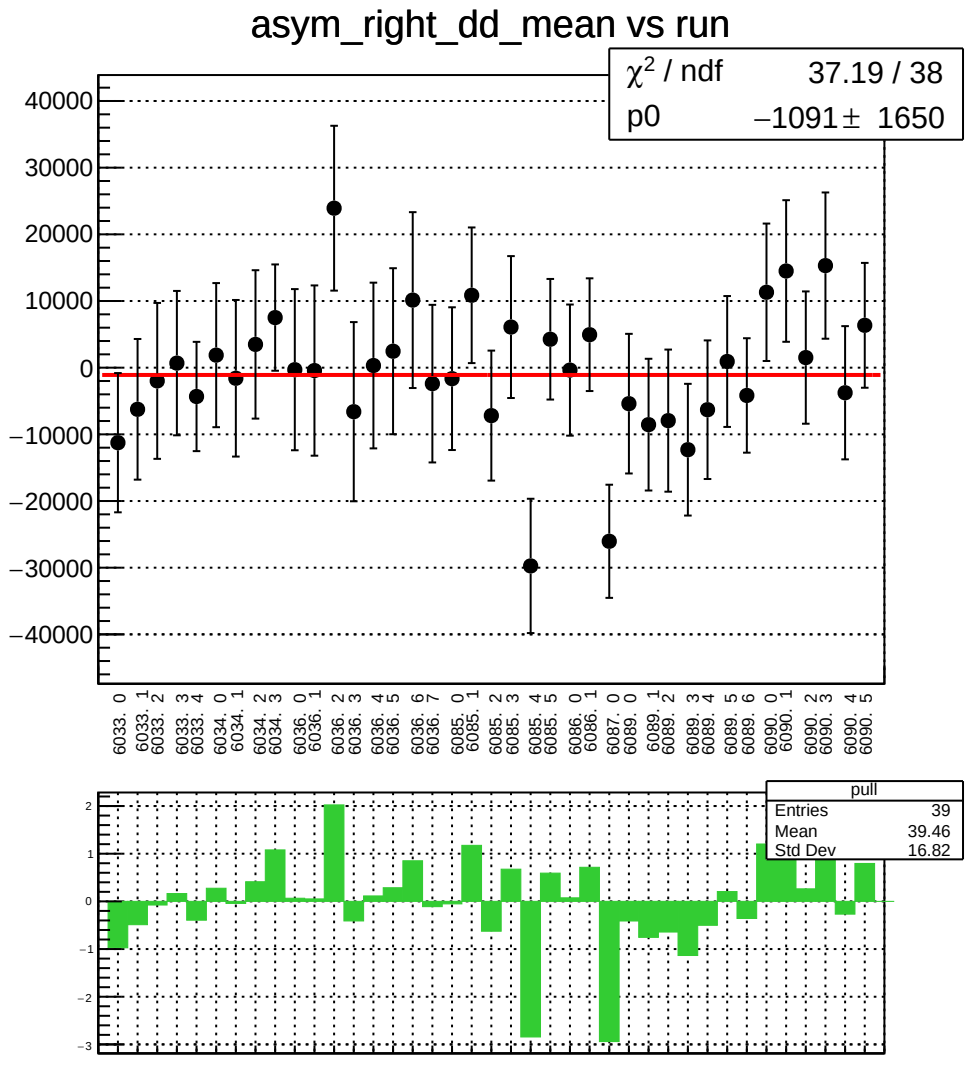

reg_asym_right_dd_mean vs run
χ² / ndf 36.4 / 38
p0 −1688 ± 900
pull
Entries 39
Mean −423.9
Std Dev 442.7

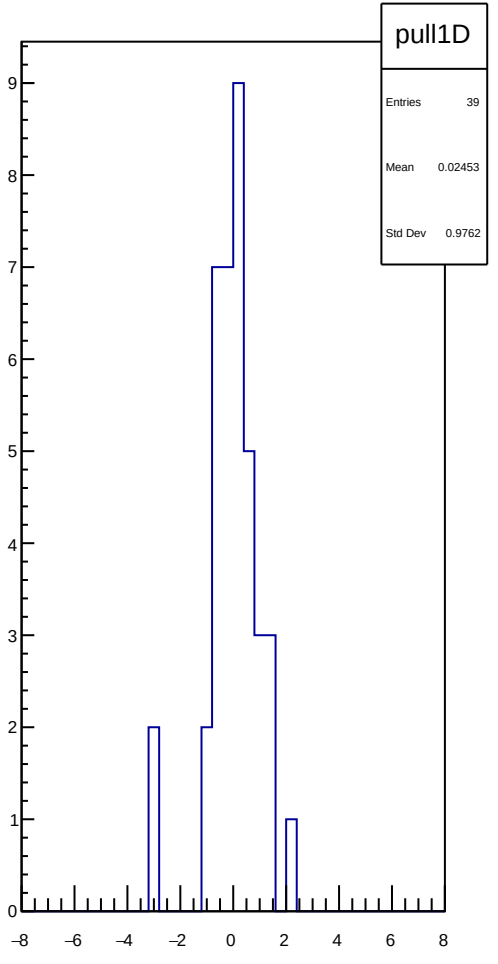

pull1D
Entries 39
Mean −0.005404
Std Dev 0.966

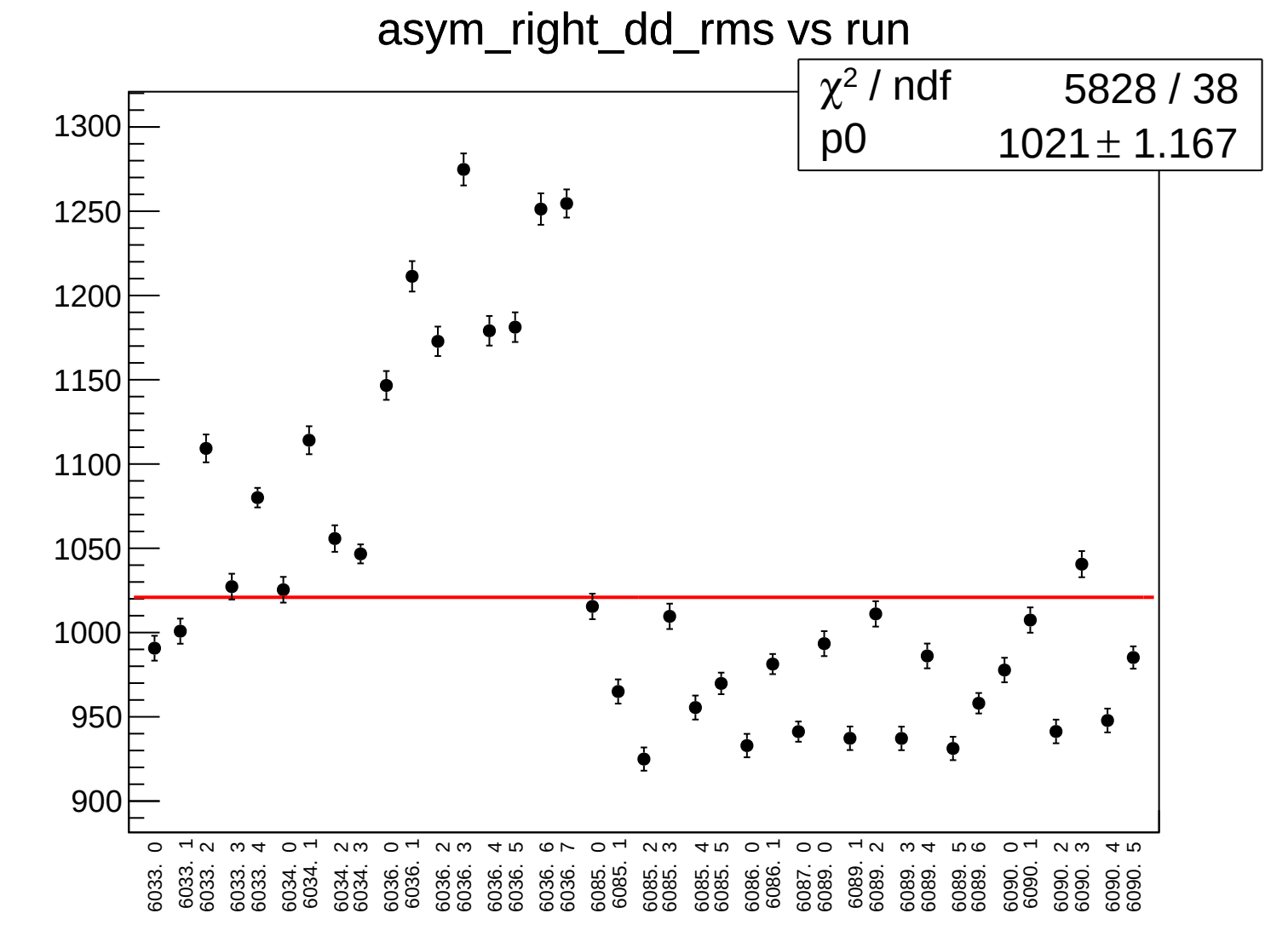

reg_asym_right_dd_rms vs run
χ² / ndf 223.1 / 38
p0 558.9 ± 0.6364
580
570
560
550
540
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

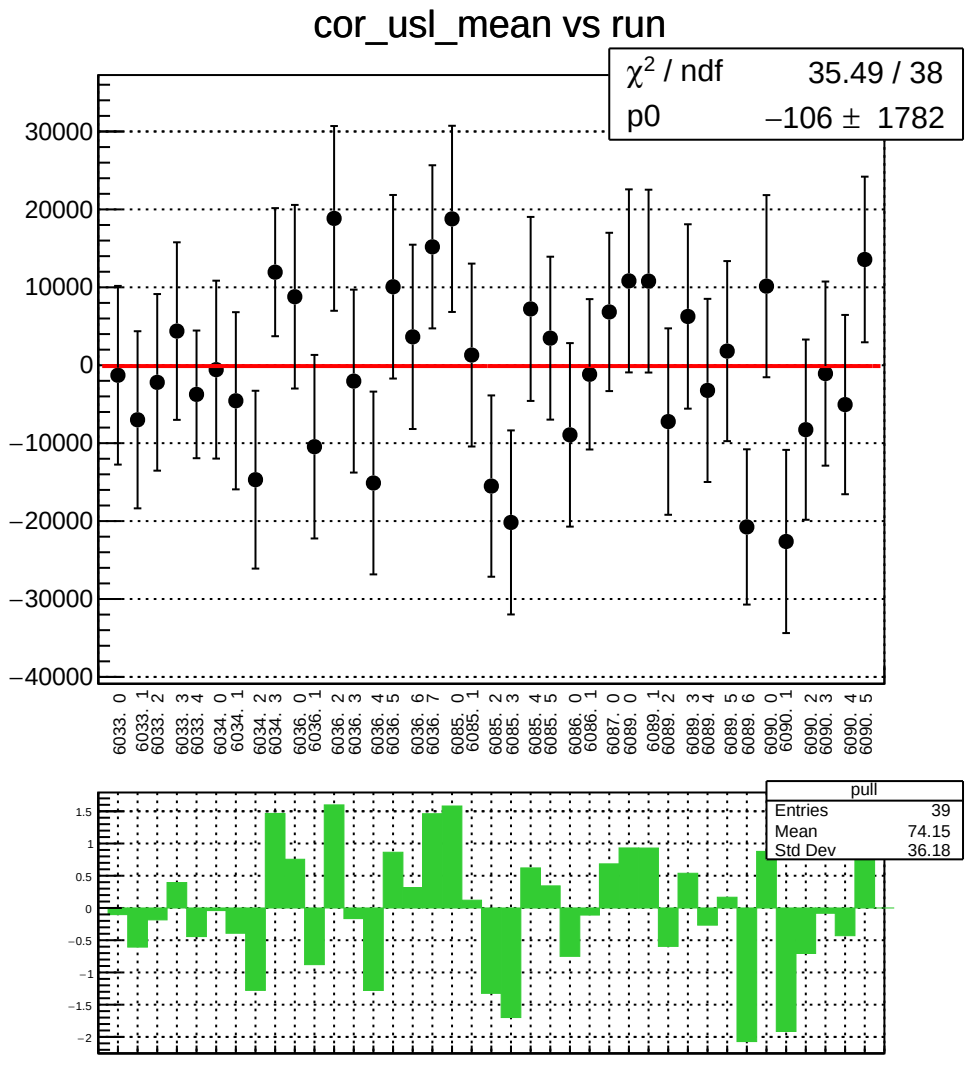

asym_right_dd_correction_mean vs run
χ² / ndf 33.41 / 38
p0 −258.3 ± 1371
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.022
Std Dev 15.07
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05169
Std Dev 0.9242
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

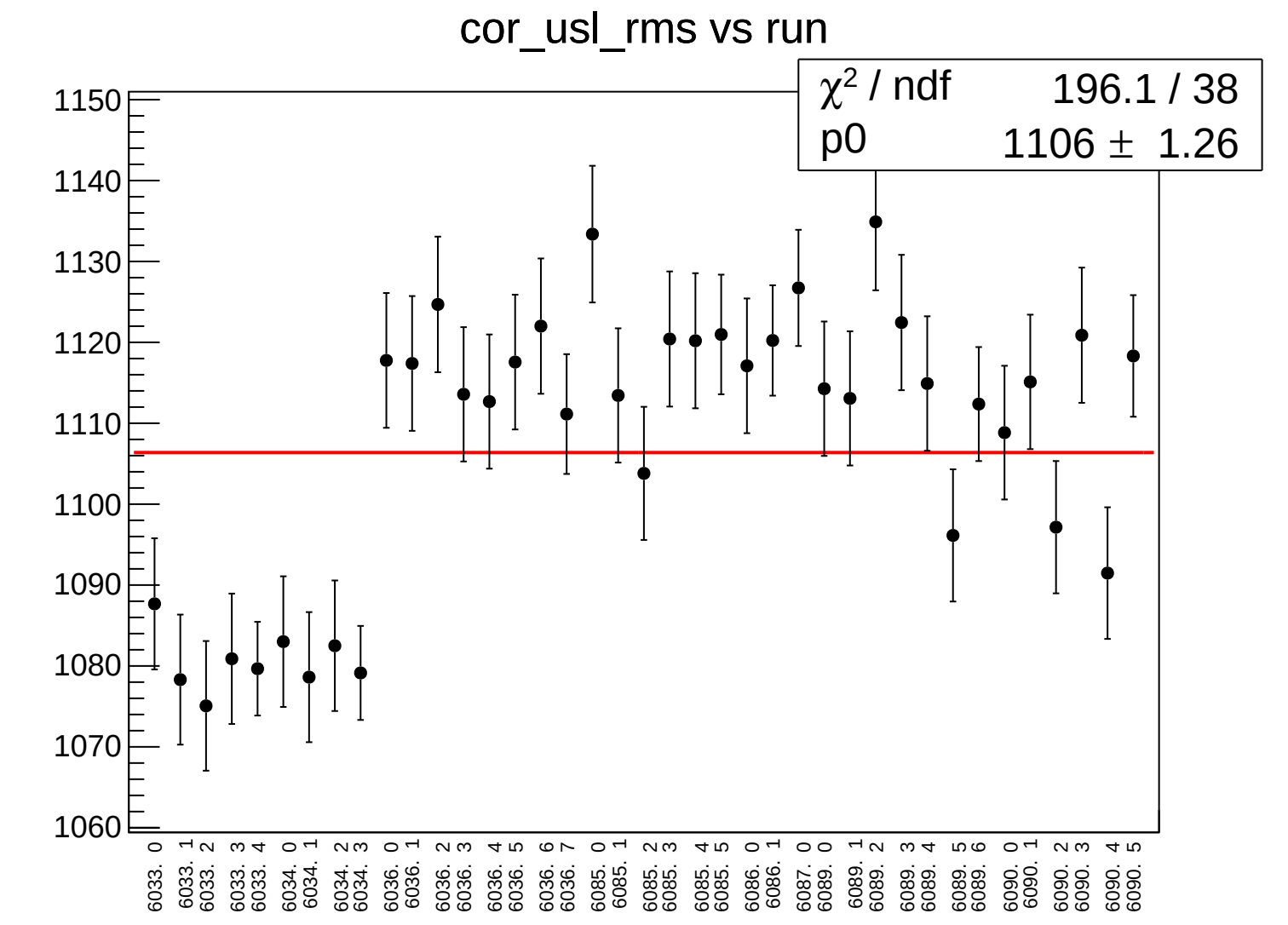

asym_right_dd_correction_rms vs run
χ² / ndf 1.107e+04 / 38
p0 845.3 ± 0.9695
1100
1000
900
800
700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

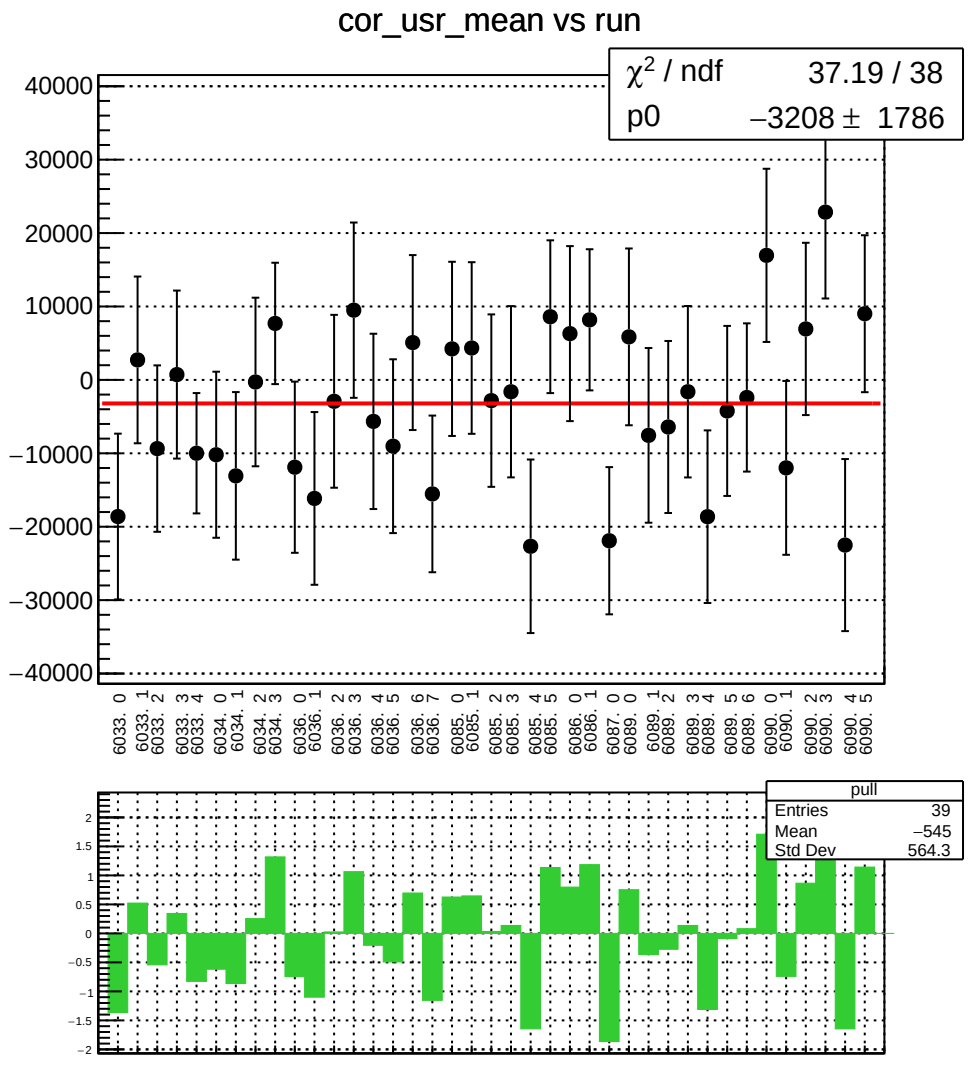

asym_right_dd_mean vs run
χ² / ndf 37.19 / 38
p0 −1091 ± 1650
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 39.46
Std Dev 16.82
2
1
0
−1
−2
−3

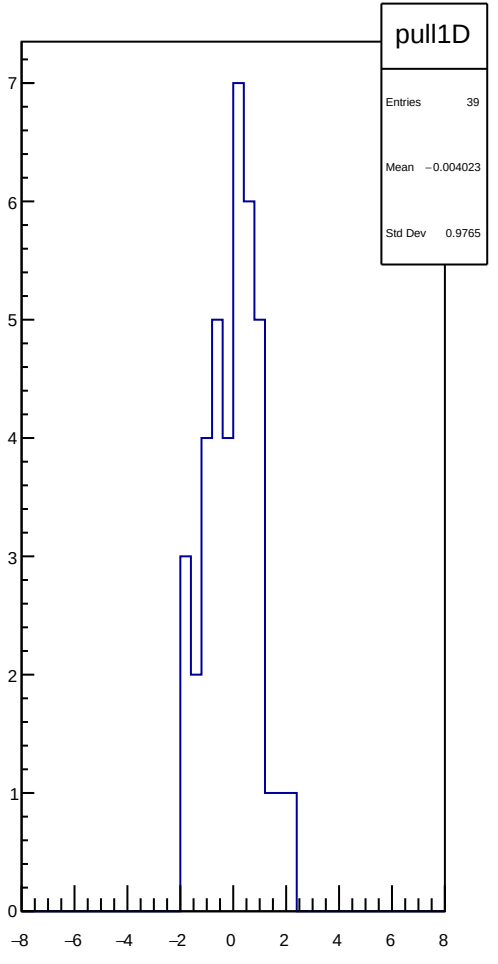

pull1D
Entries 39
Mean 0.02453
Std Dev 0.9762
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

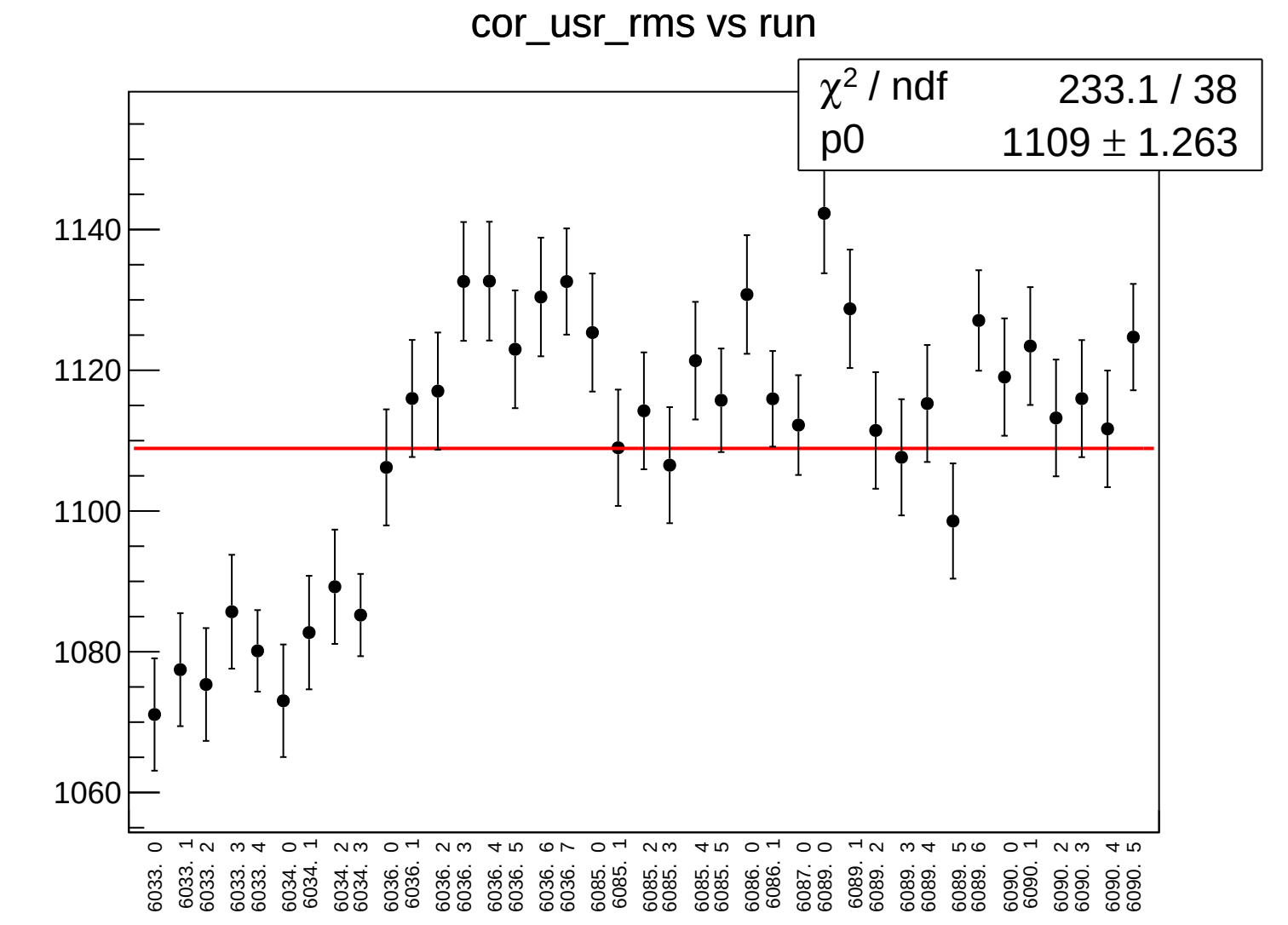

asym_right_dd_rms vs run
χ² / ndf 5828 / 38
p0 1021 ± 1.167
1300
1250
1200
1150
1100
1050
1000
950
900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_usl_mean vs run
χ² / ndf 35.49 / 38
p0 −106 ± 1782
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 74.15
Std Dev 36.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.009768
Std Dev 0.954
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_usl_rms vs run
χ² / ndf 196.1 / 38
p0 1106 ± 1.26
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_usr_mean vs run
χ² / ndf 37.19 / 38
p0 −3208 ± 1786
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −545
Std Dev 564.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 39
Mean −0.004023
Std Dev 0.9765
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_usr_rms vs run
χ² / ndf 233.1 / 38
p0 1109 ± 1.263
1140
1120
1100
1080
1060
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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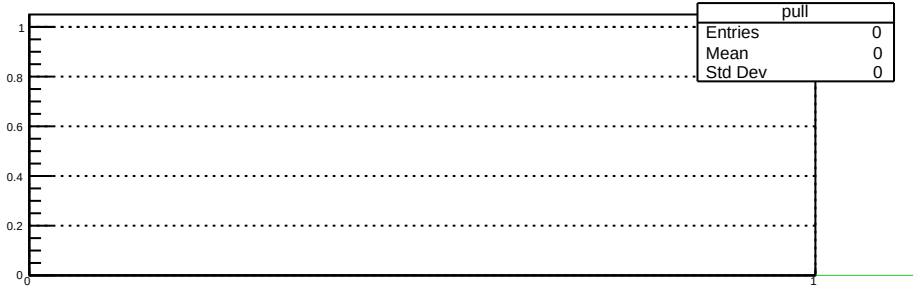
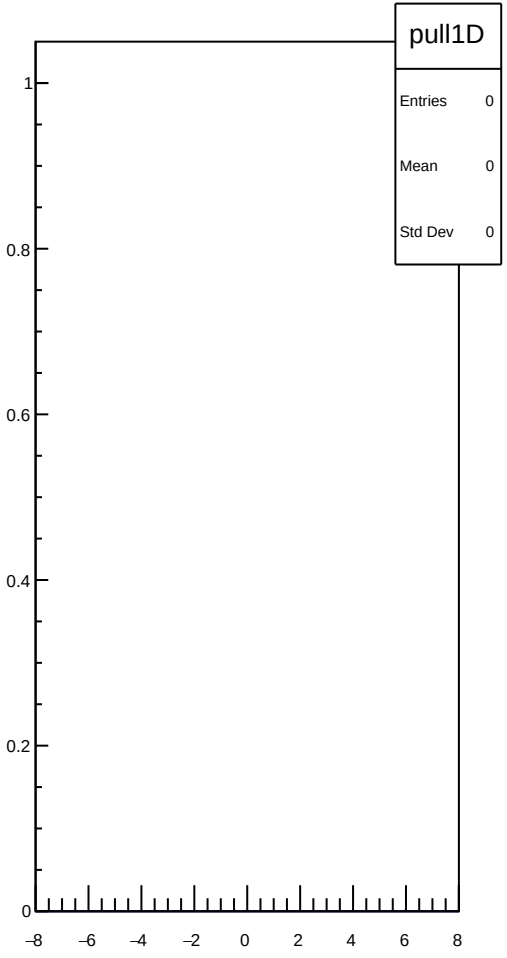
6090. 2
6090. 3
6090. 4
6090. 5


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
–8
–6
–4
–2
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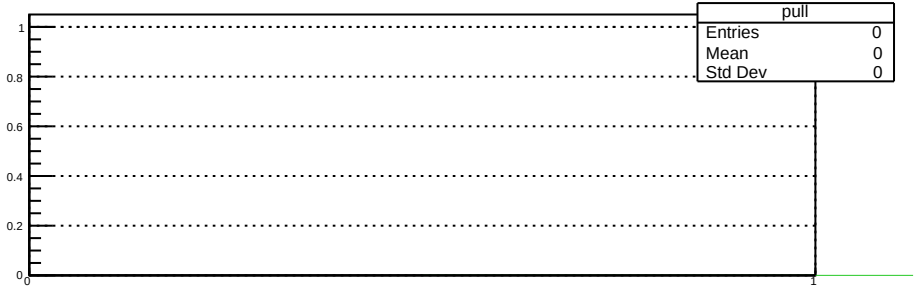
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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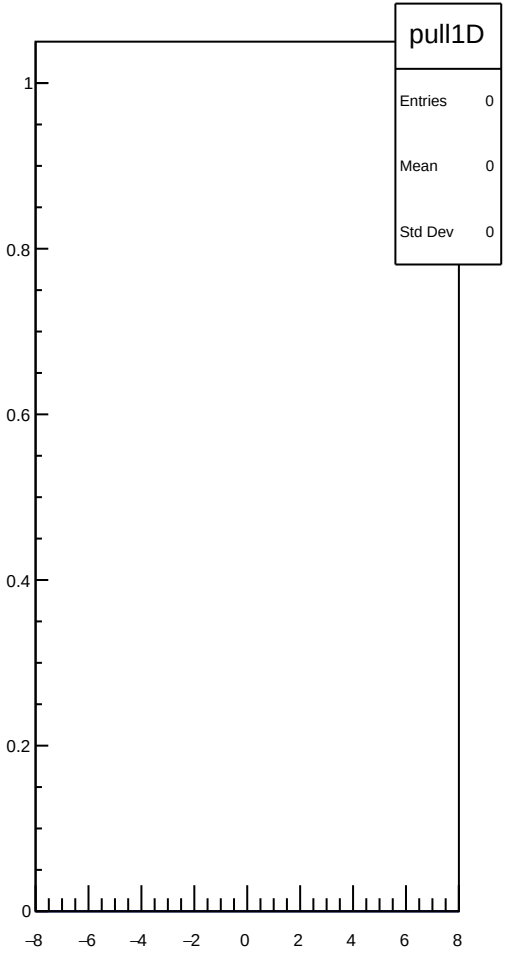
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
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–6
–4
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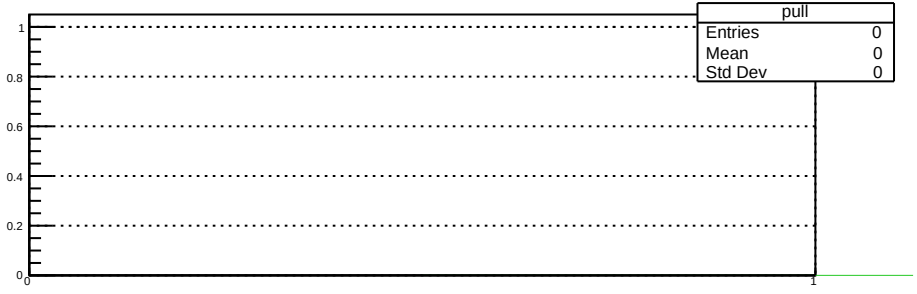
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
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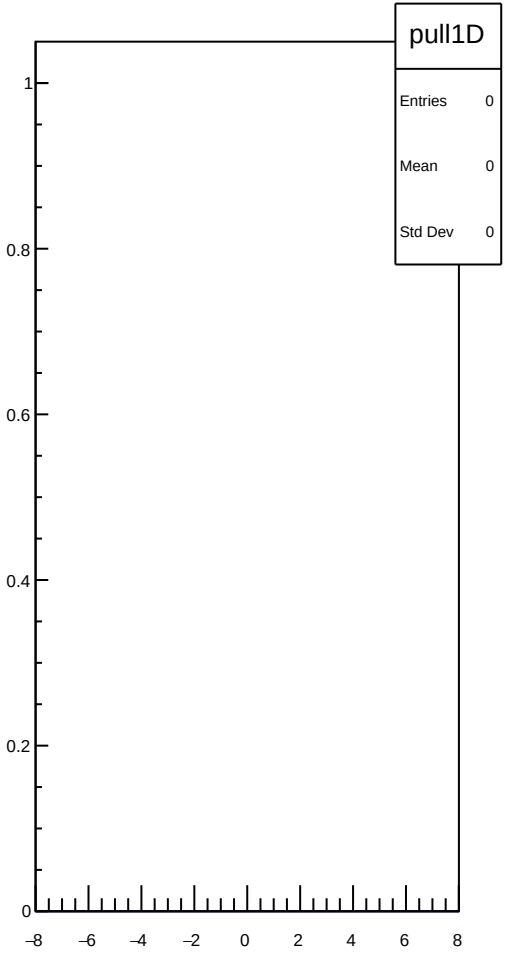
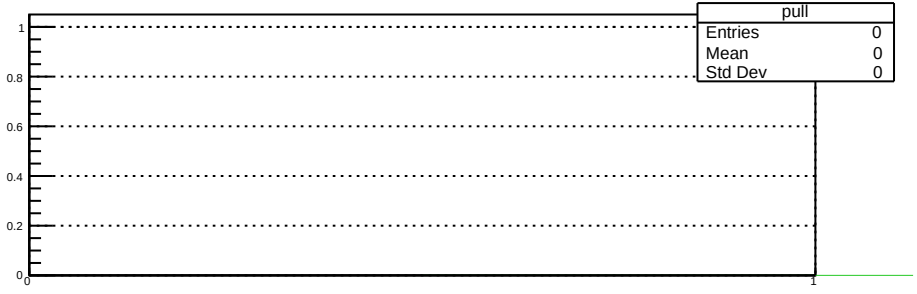
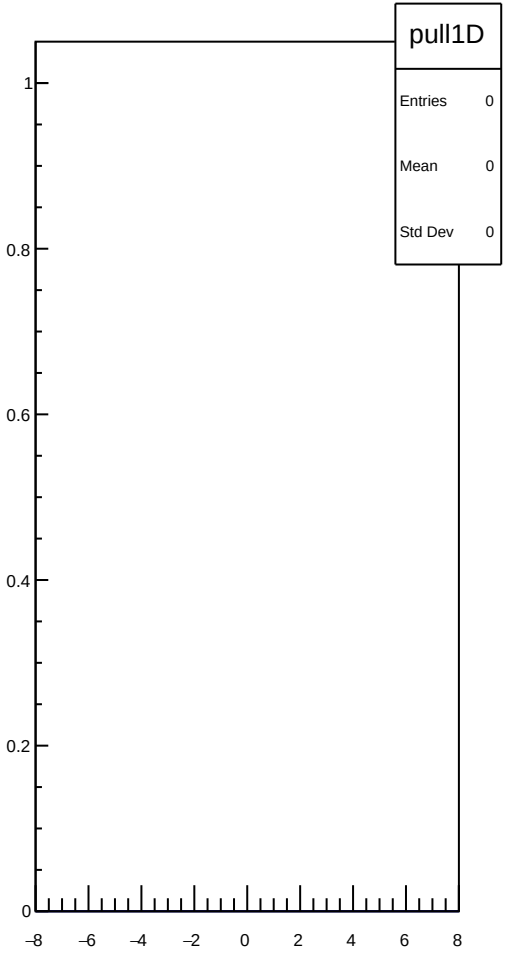

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
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–4
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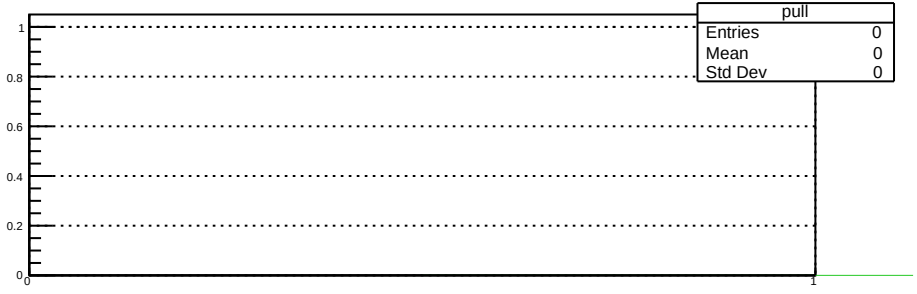
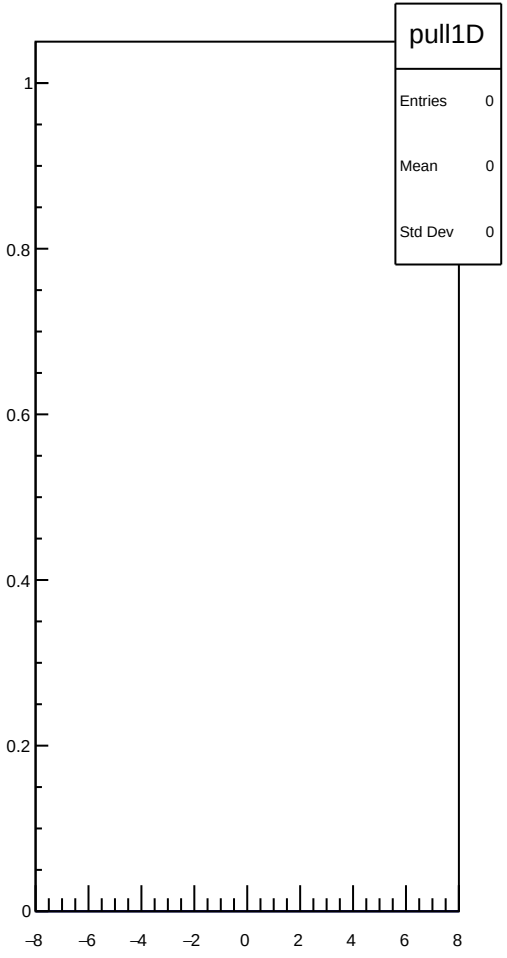
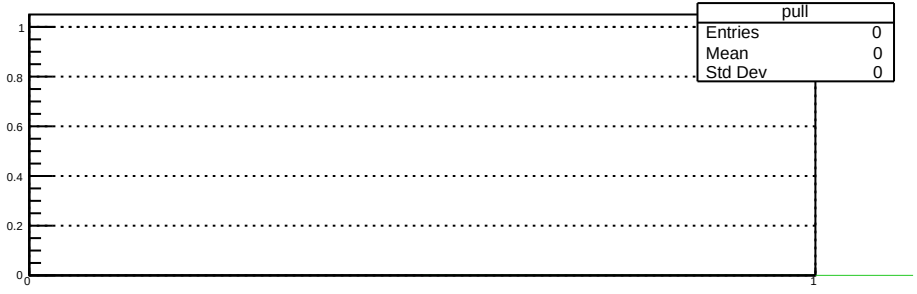
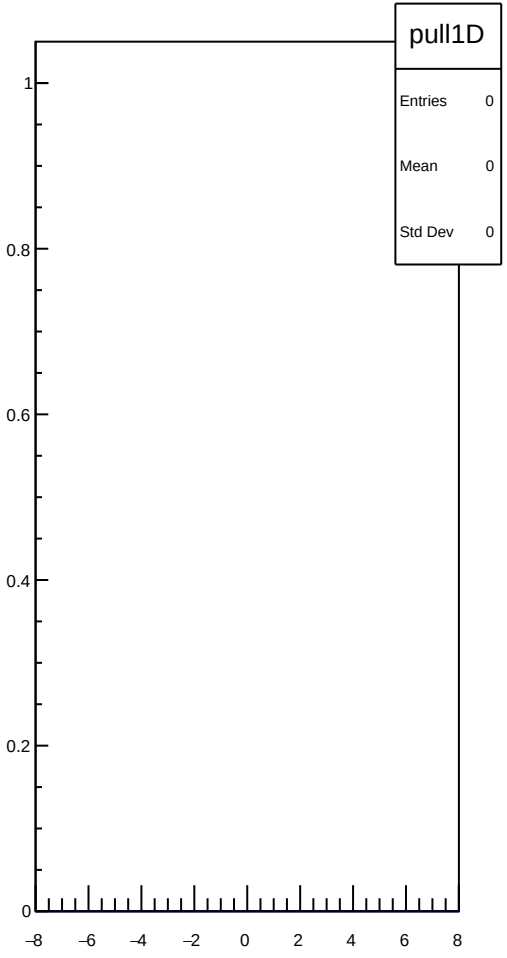
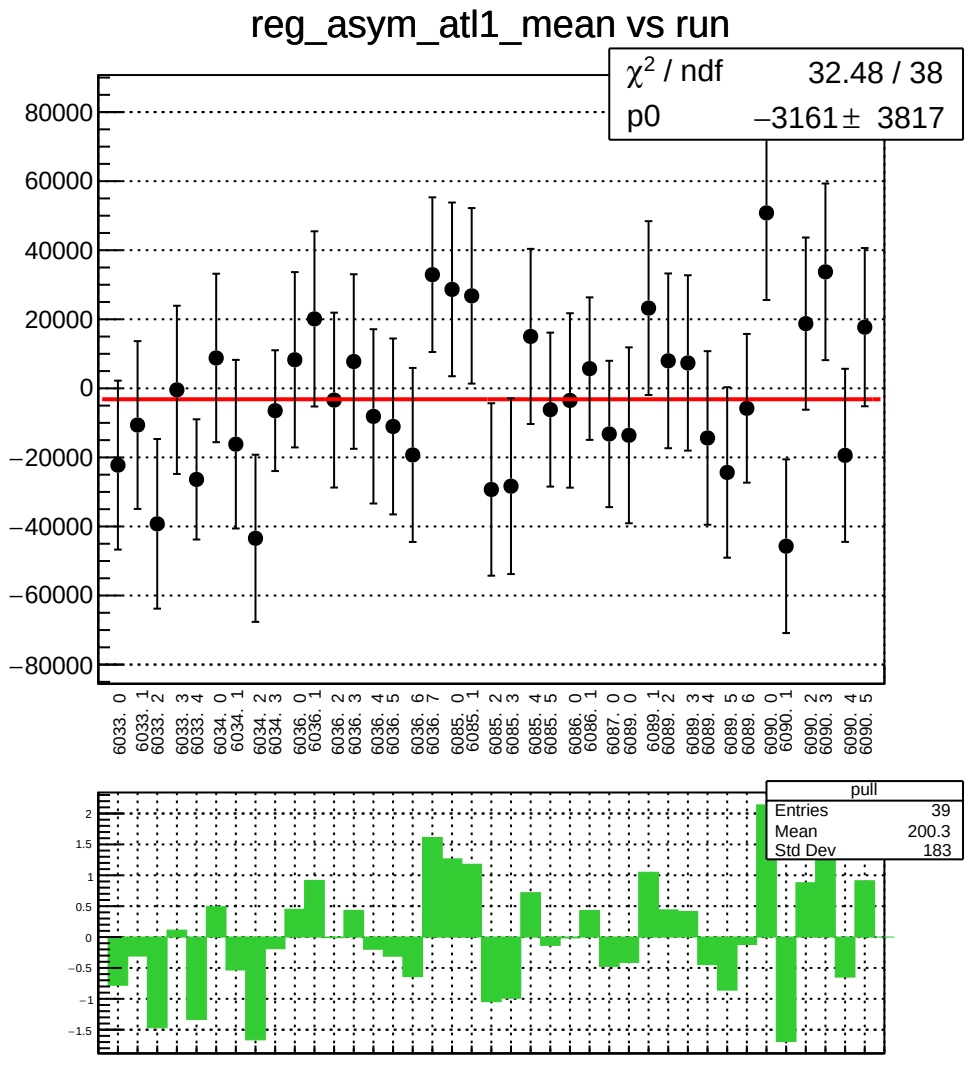
2
4
6
8

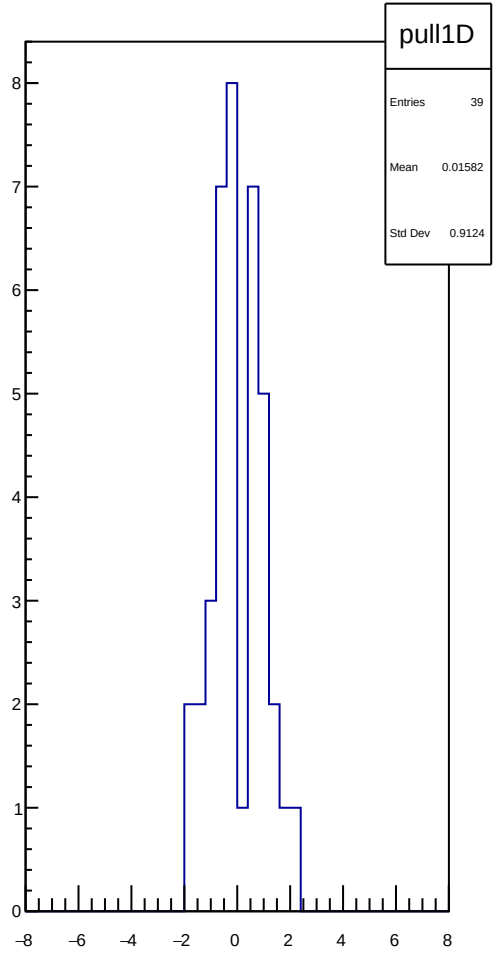

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

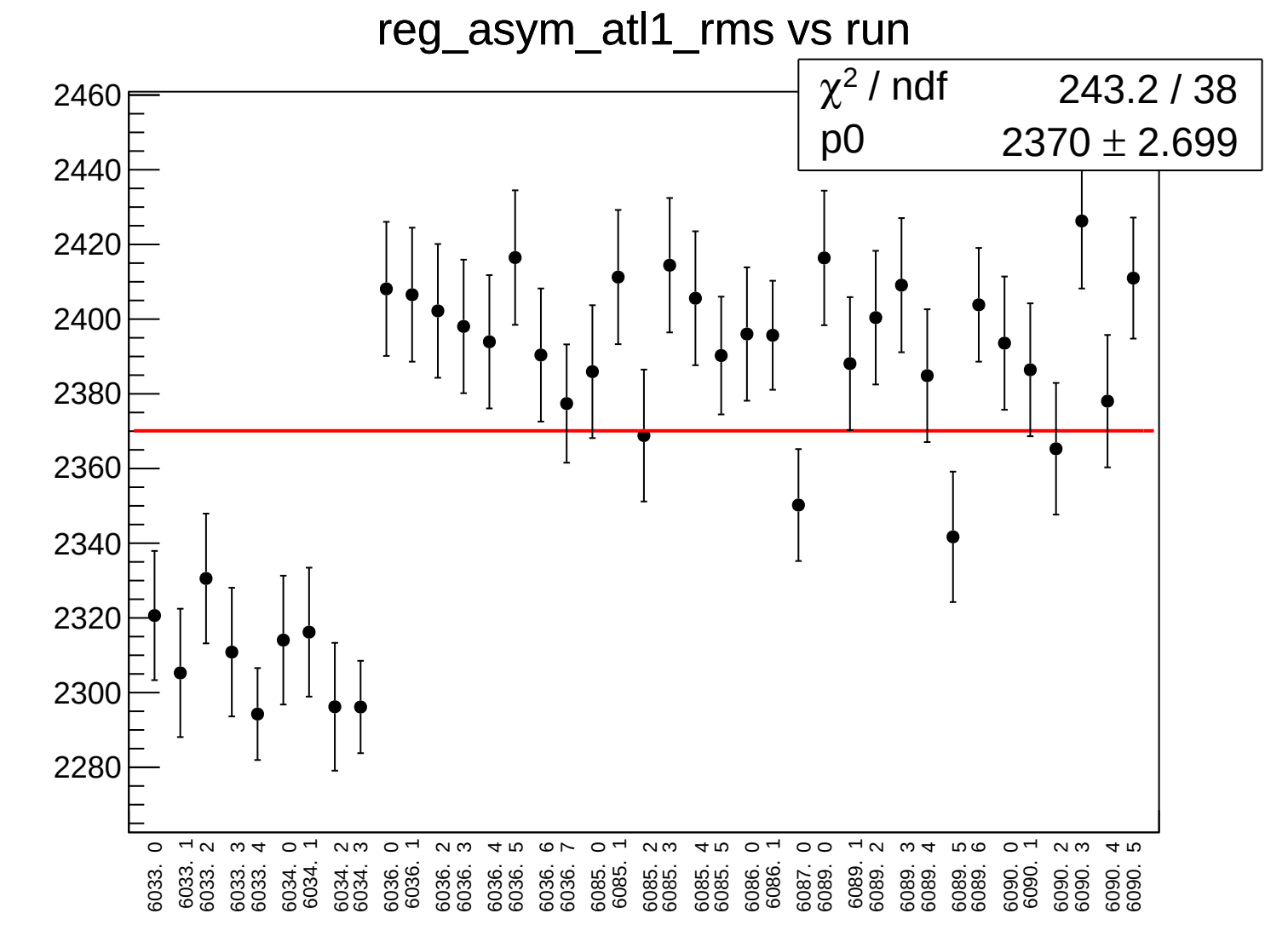

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

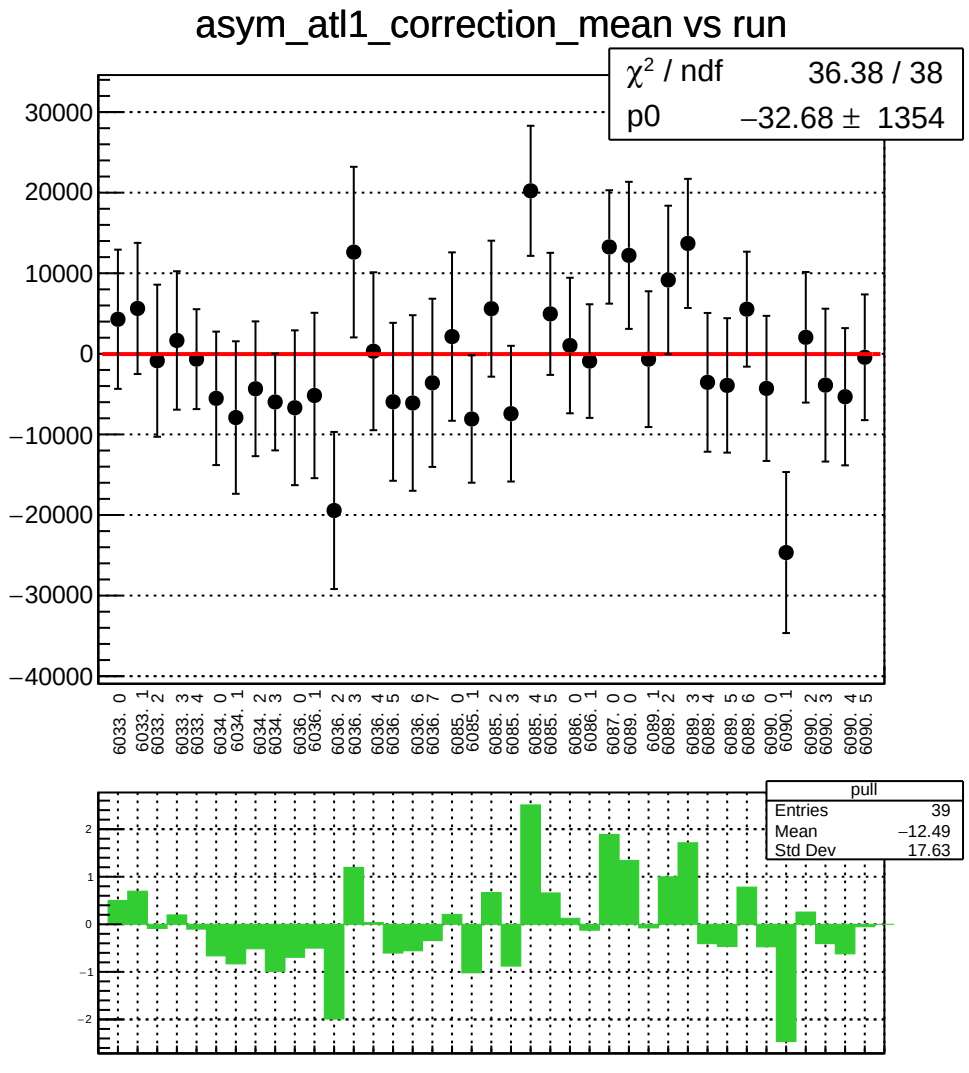

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

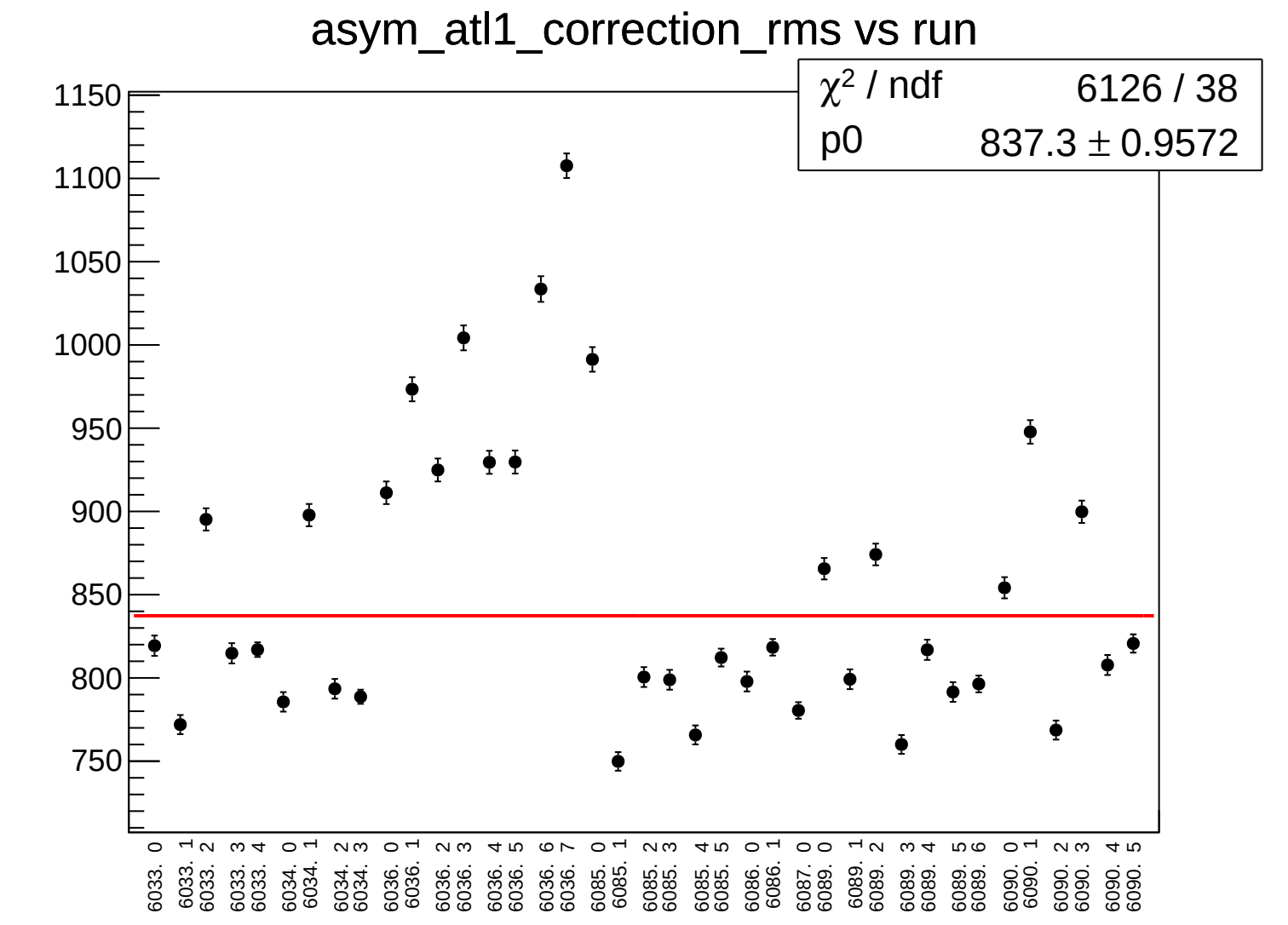

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

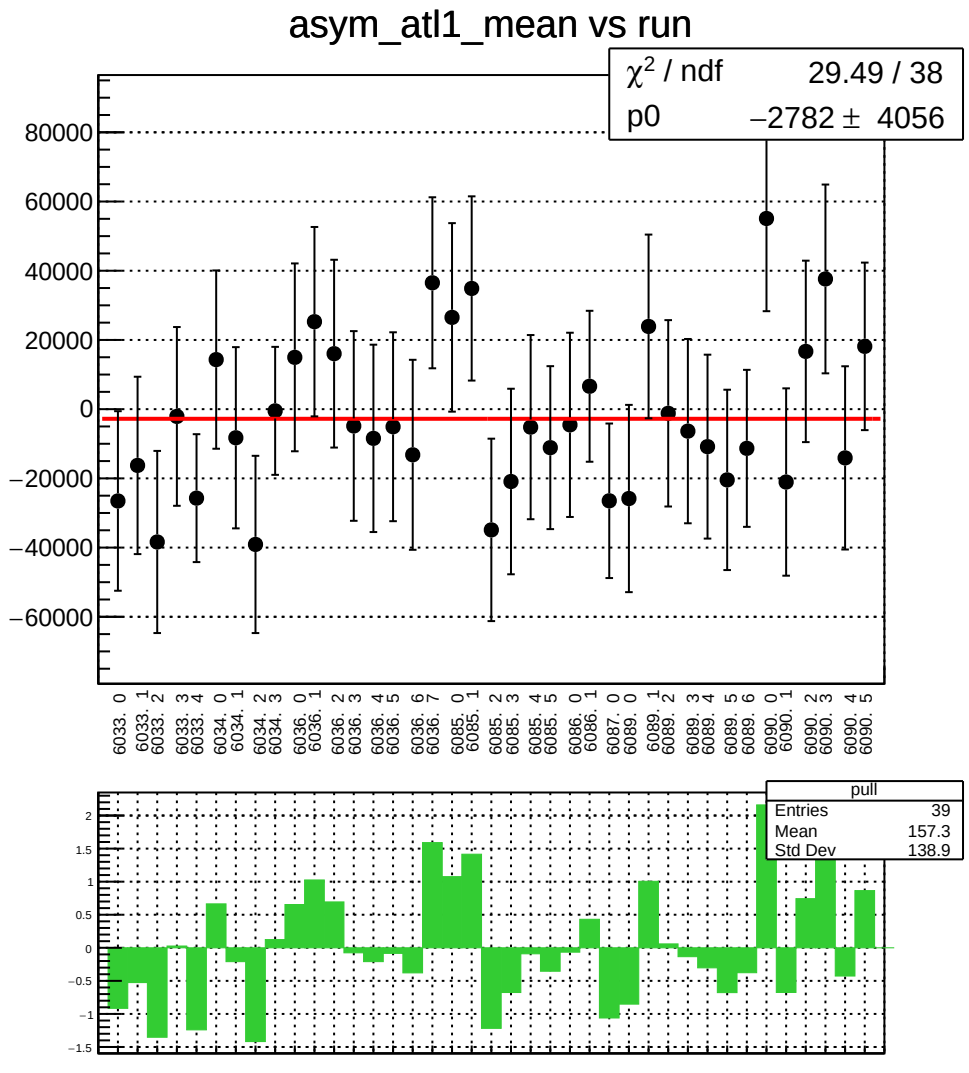

reg_asym_atl1_mean vs run
χ² / ndf 32.48 / 38
p0 −3161 ± 3817
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 200.3
Std Dev 183
2
1.5
1
0.5
0
−0.5
−1
−1.5

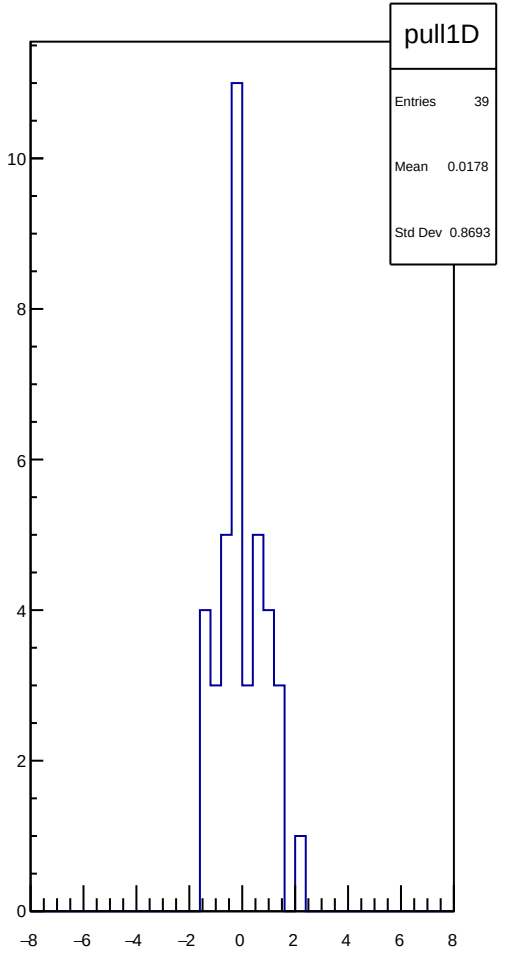

pull1D
Entries 39
Mean 0.01582
Std Dev 0.9124
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

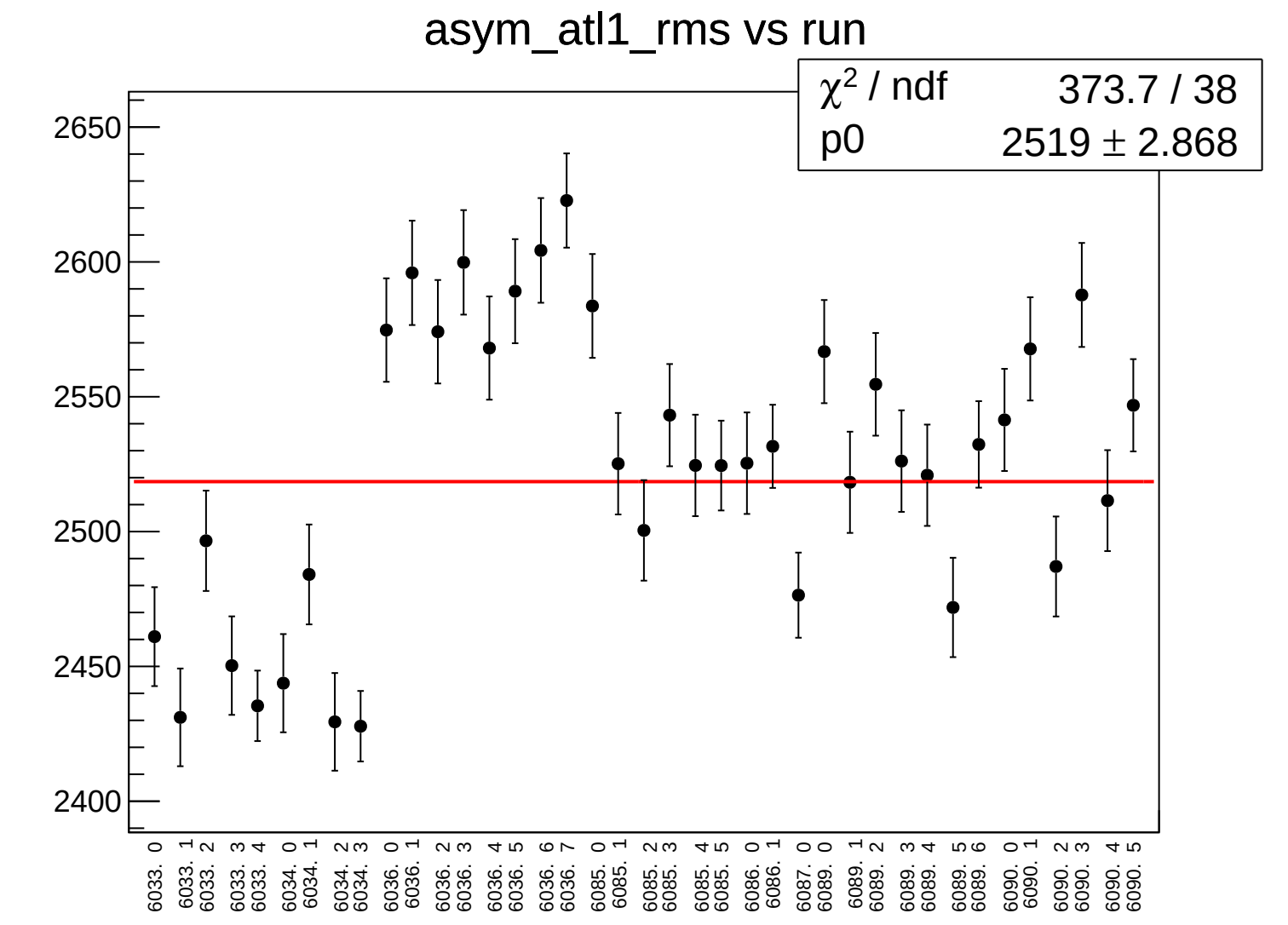

reg_asym_atl1_rms vs run
χ² / ndf 243.2 / 38
p0 2370 ± 2.699
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

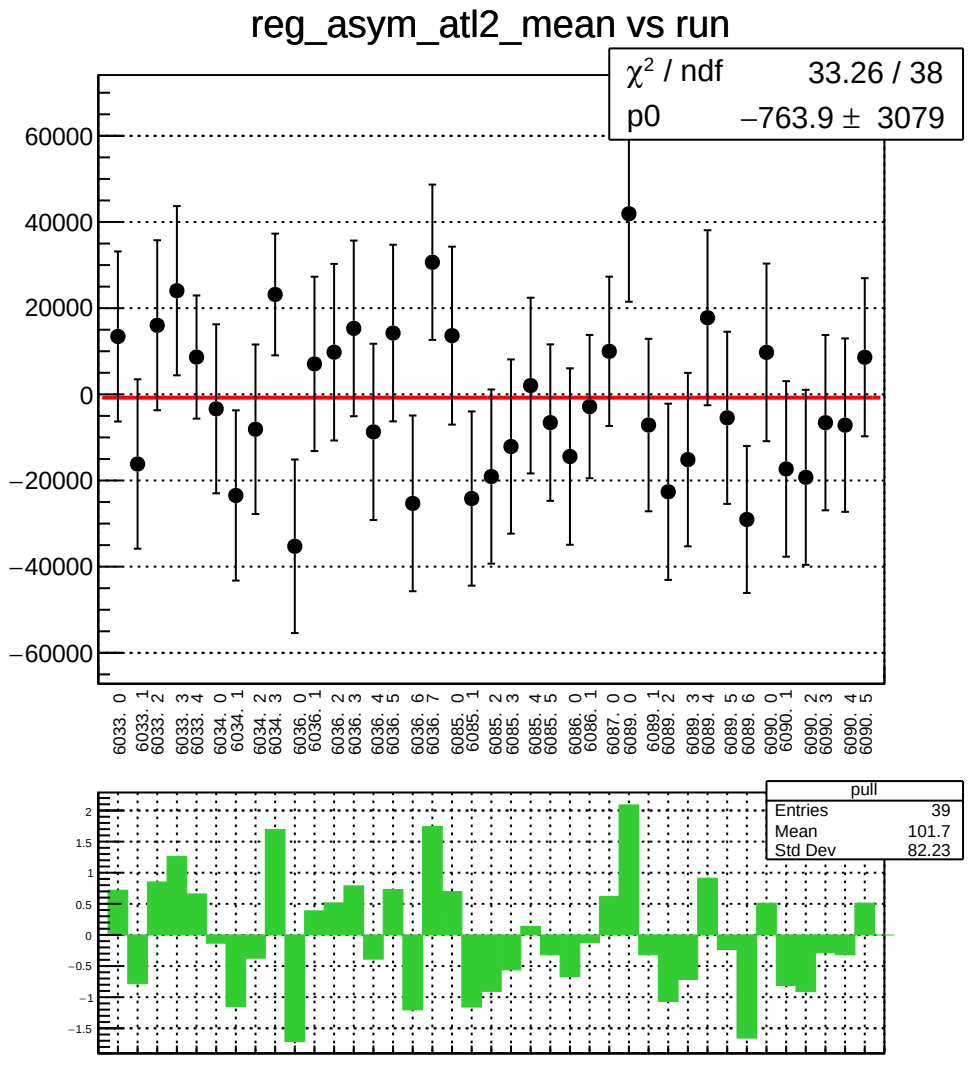

asym_atl1_correction_mean vs run
χ² / ndf 36.38 / 38
p0 −32.68 ± 1354
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −12.49
Std Dev 17.63
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02761
Std Dev 0.9654
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

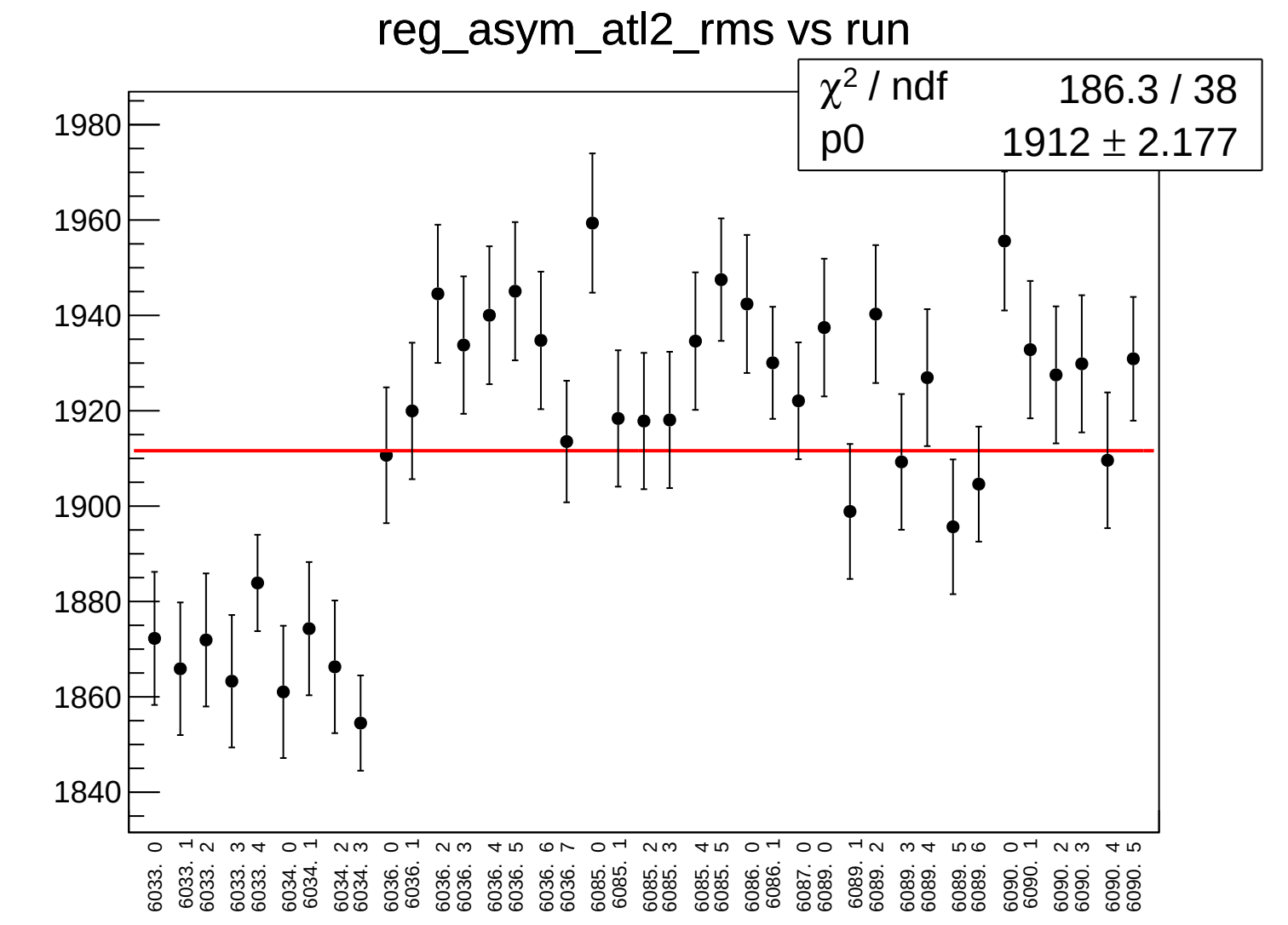

asym_atl1_correction_rms vs run
χ² / ndf 6126 / 38
p0 837.3 ± 0.9572
1150
1100
1050
1000
950
900
850
800
750
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

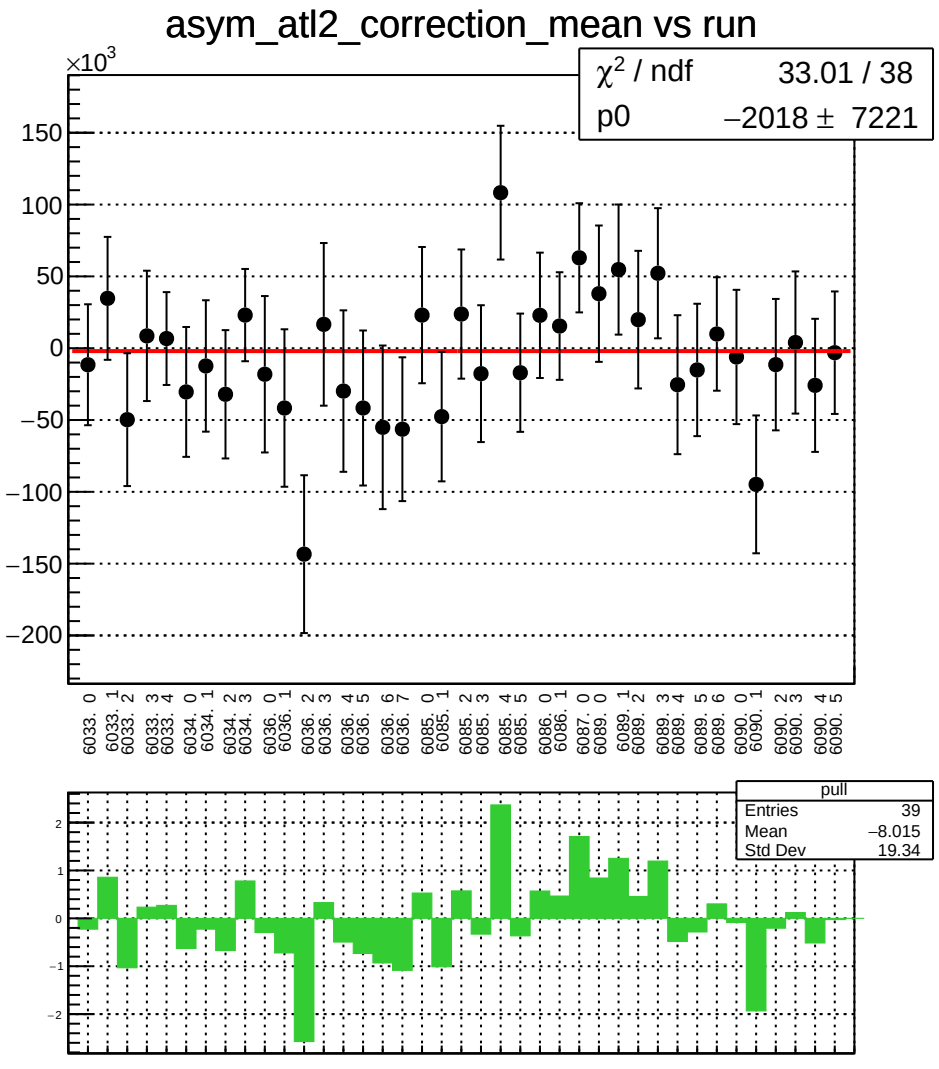

asym_atl1_mean vs run
χ² / ndf 29.49 / 38
p0 −2782 ± 4056
80000
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 157.3
Std Dev 138.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

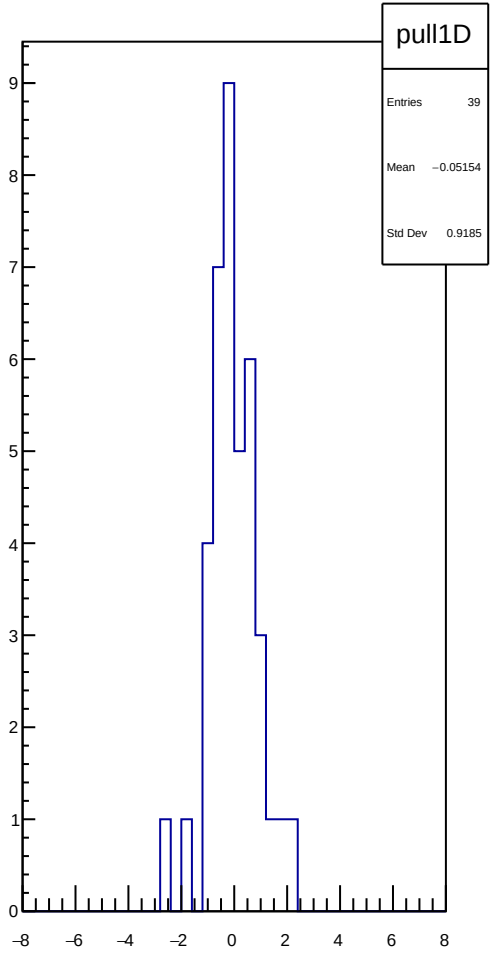

pull1D
Entries 39
Mean 0.0178
Std Dev 0.8693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

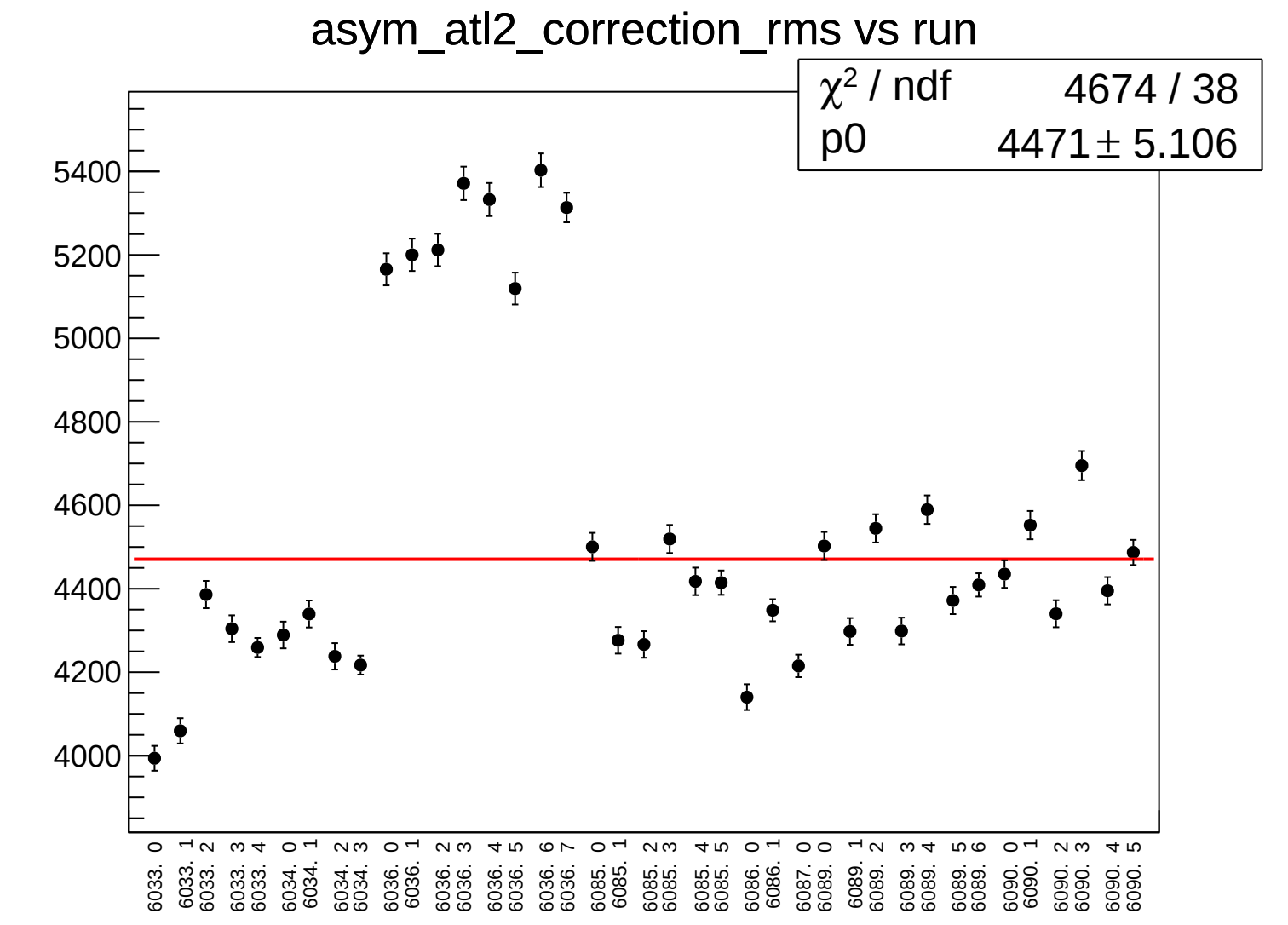

asym_atl1_rms vs run
χ² / ndf 373.7 / 38
p0 2519 ± 2.868
2650
2600
2550
2500
2450
2400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

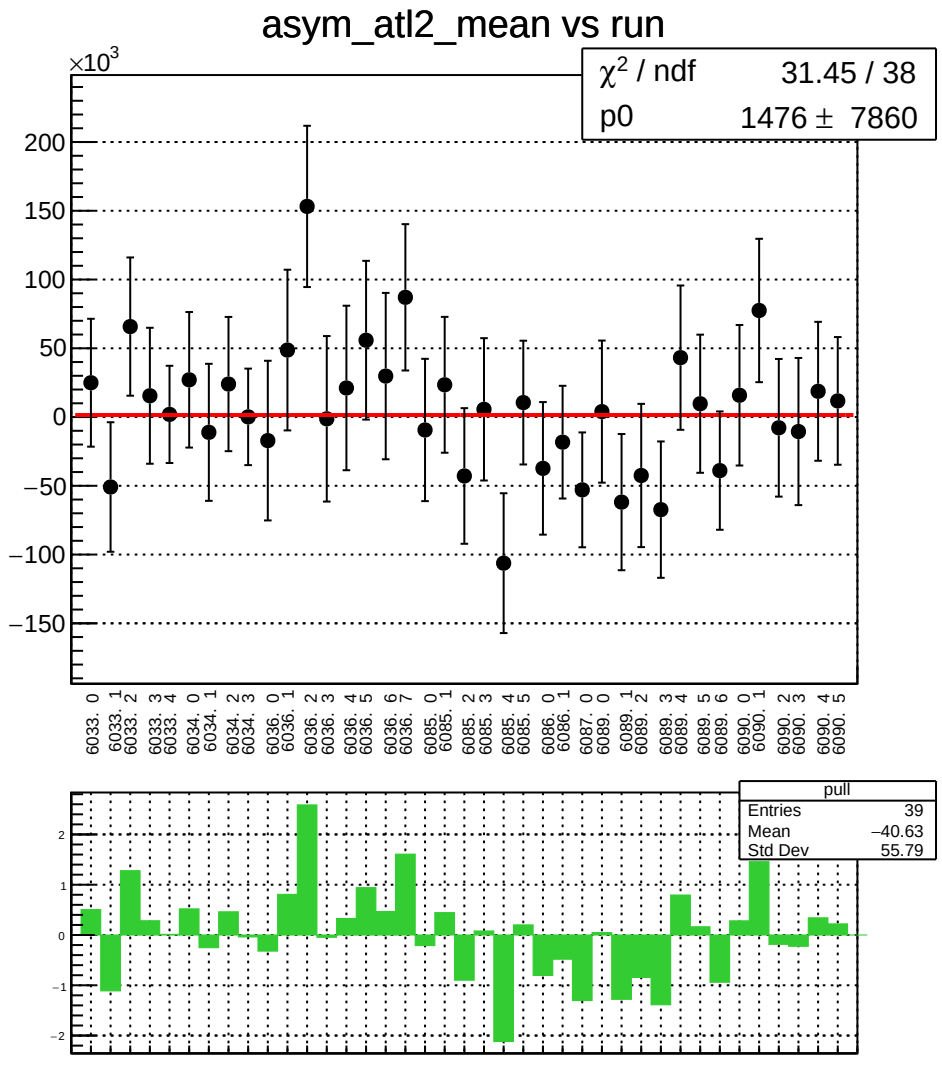

reg_asym_atl2_mean vs run
χ² / ndf 33.26 / 38
p0 −763.9 ± 3079
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 101.7
Std Dev 82.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.02487
Std Dev 0.9231
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

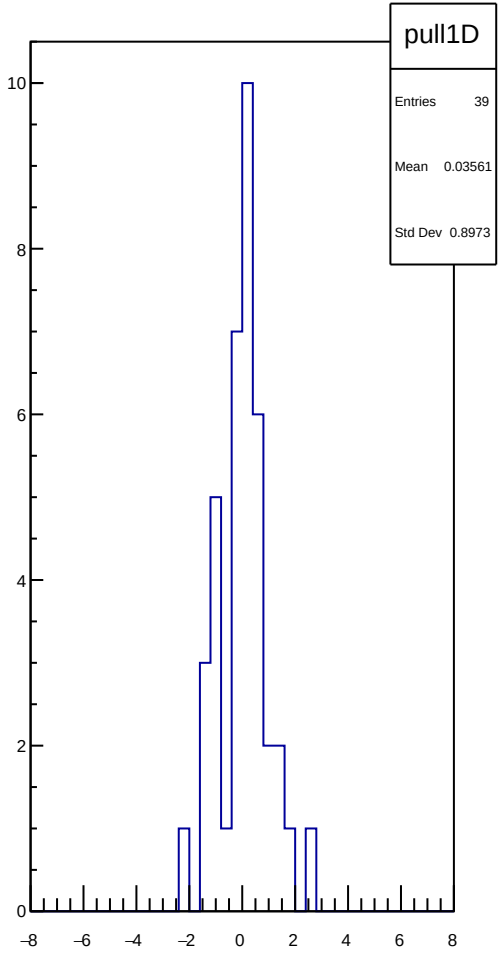

reg_asym_atl2_rms vs run
χ² / ndf 186.3 / 38
p0 1912 ± 2.177
1980
1960
1940
1920
1900
1880
1860
1840
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

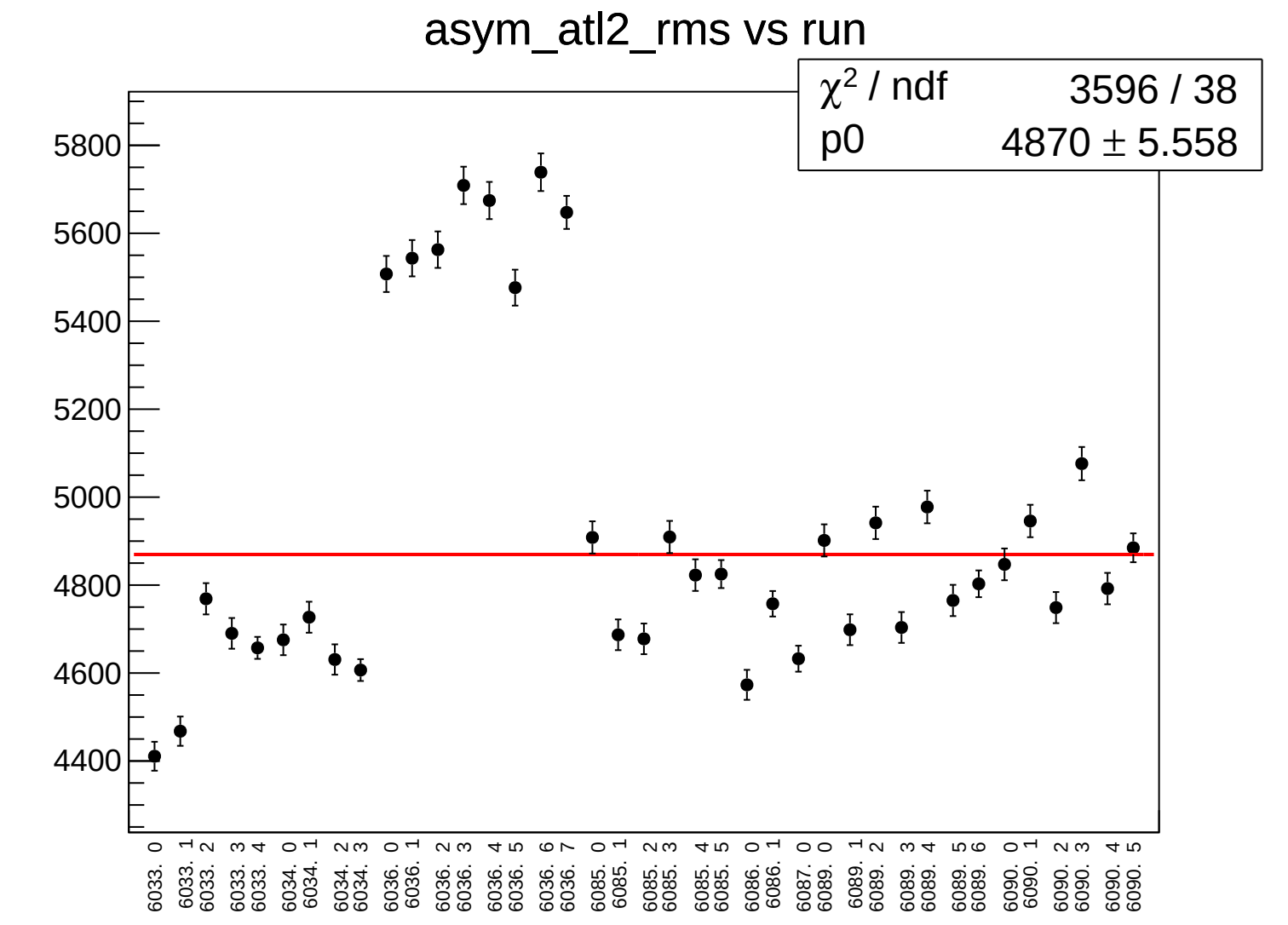

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 33.01 / 38
p0 −2018 ± 7221
150
100
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −8.015
Std Dev 19.34
2
1
0
−1
−2

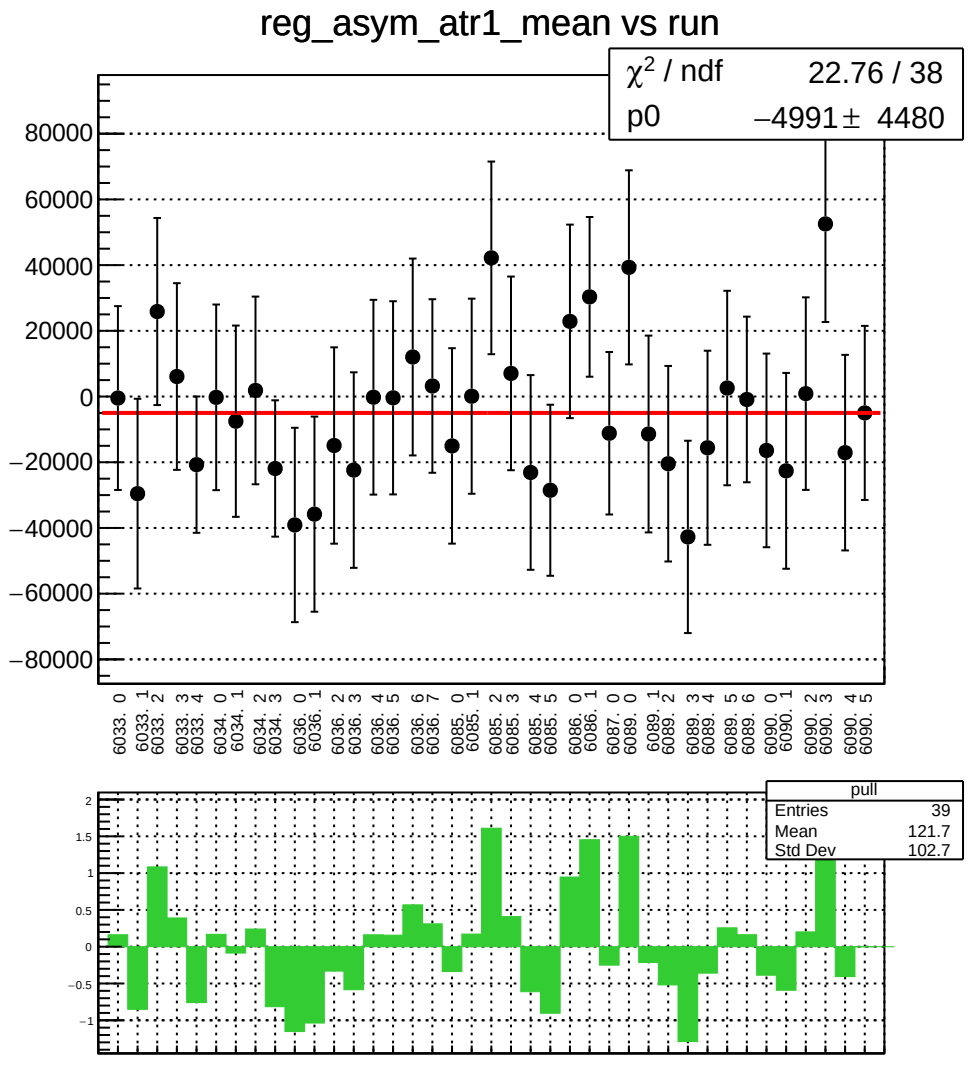

pull1D
Entries 39
Mean −0.05154
Std Dev 0.9185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

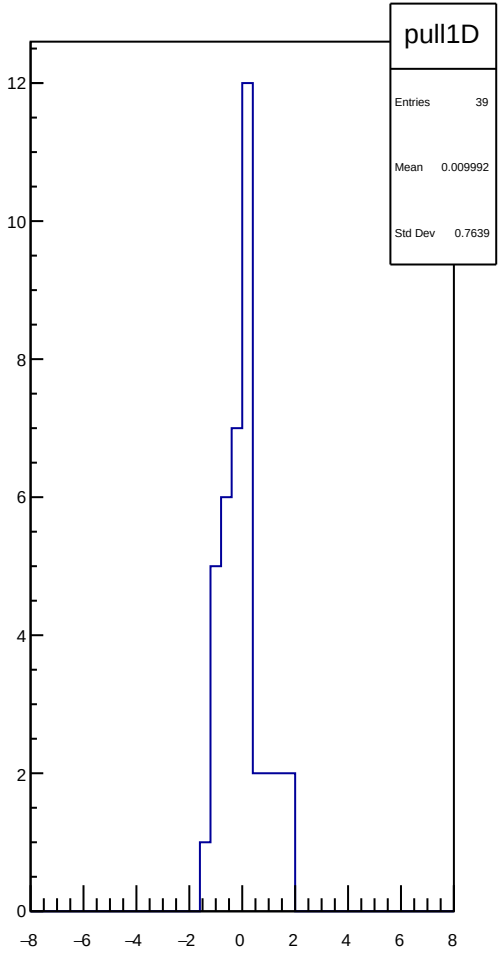

asym_atl2_correction_rms vs run
χ² / ndf 4674 / 38
p0 4471 ± 5.106
5400
5200
5000
4800
4600
4400
4200
4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

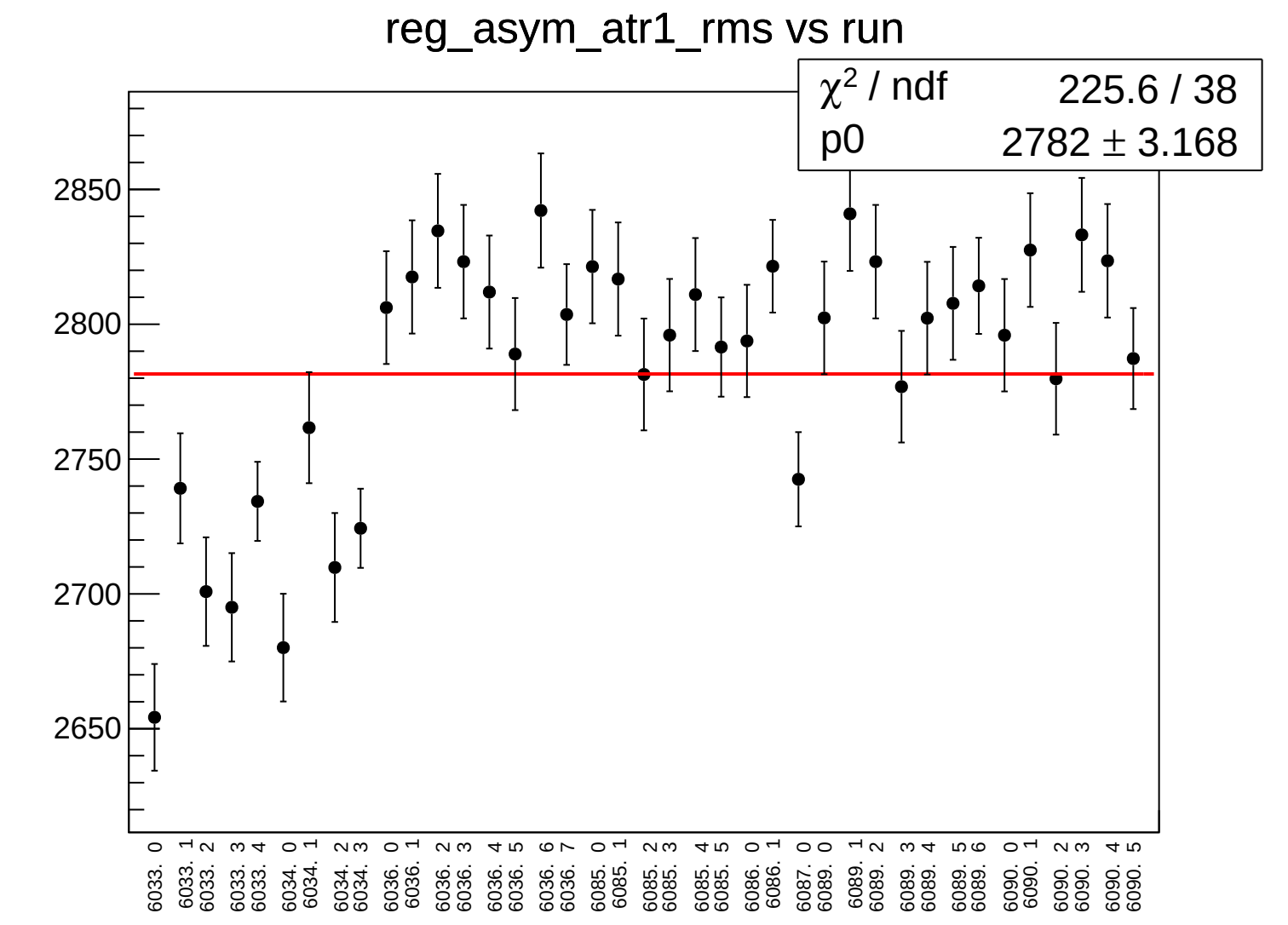

asym_atl2_mean vs run
×10^3
χ^2 / ndf 31.45 / 38
p0 1476 ± 7860
200
150
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −40.63
Std Dev 55.79
2
1
0
−1
−2

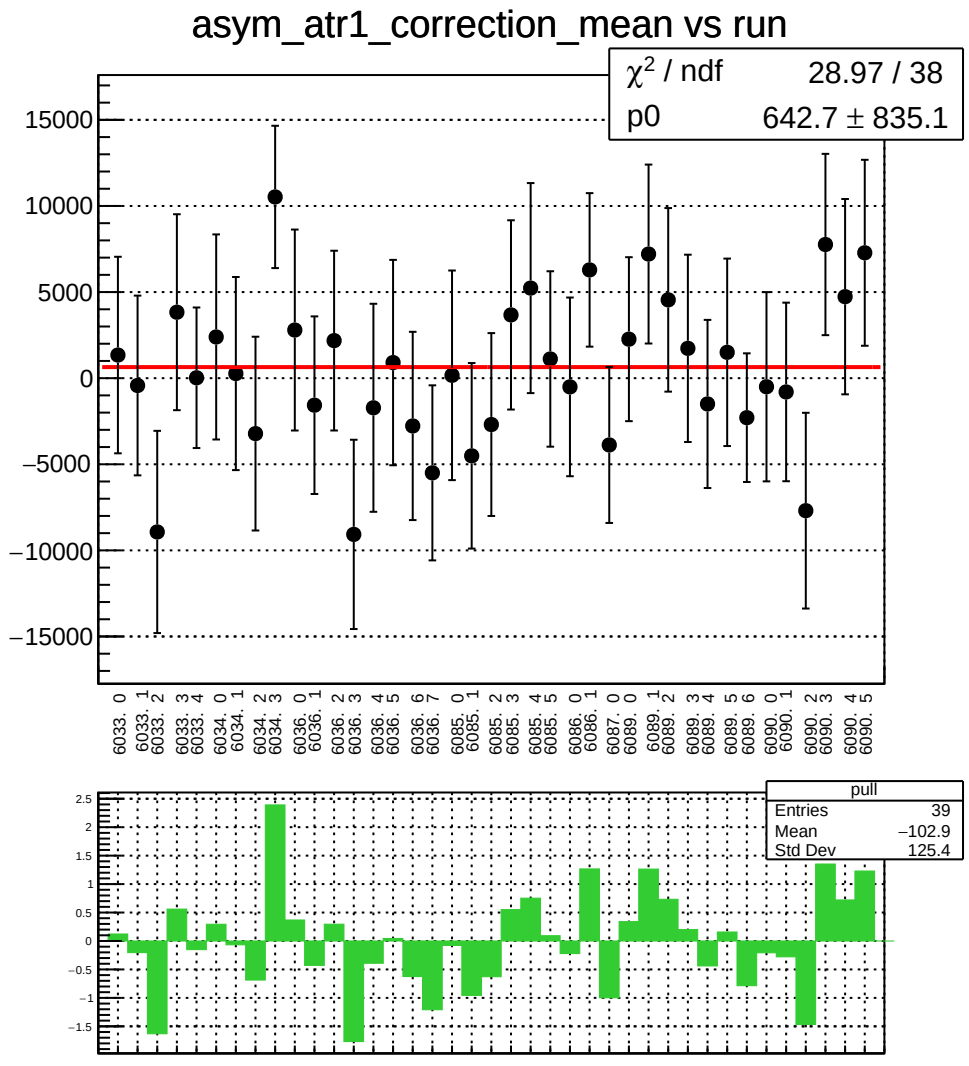

pull1D
Entries 39
Mean 0.03561
Std Dev 0.8973
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

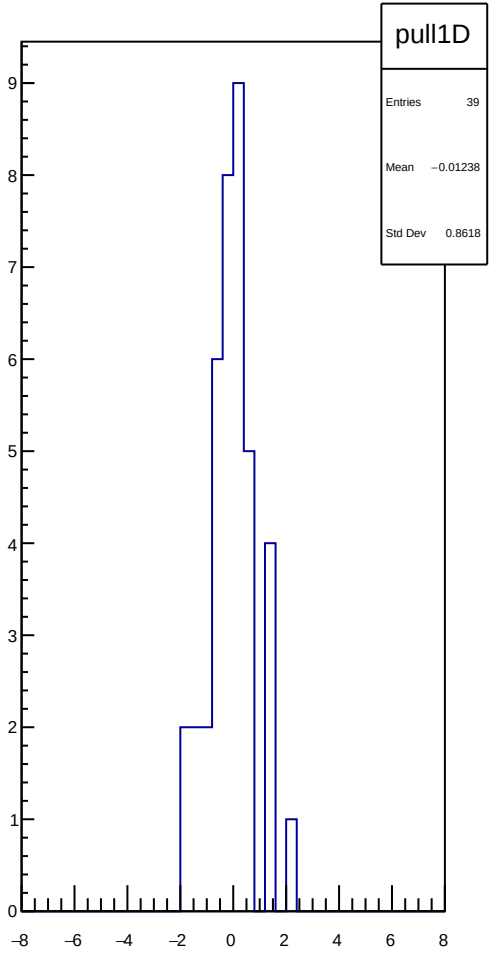

asym_atl2_rms vs run
χ² / ndf 3596 / 38
p0 4870 ± 5.558
5800
5600
5400
5200
5000
4800
4600
4400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

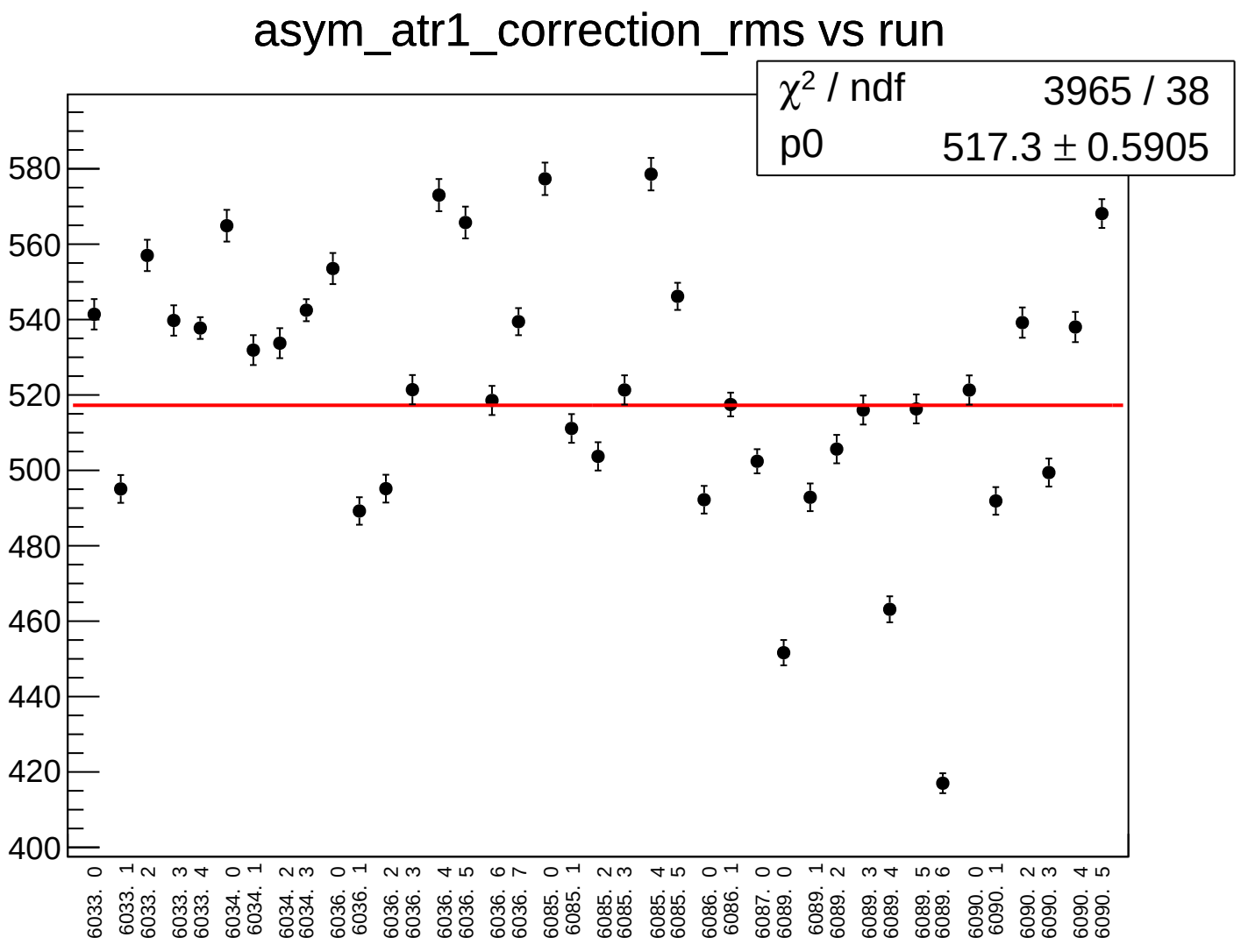

reg_asym_atr1_mean vs run
χ² / ndf 22.76 / 38
p0 −4991 ± 4480
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 121.7
Std Dev 102.7
2
1.5
1
0.5
0
−0.5
−1

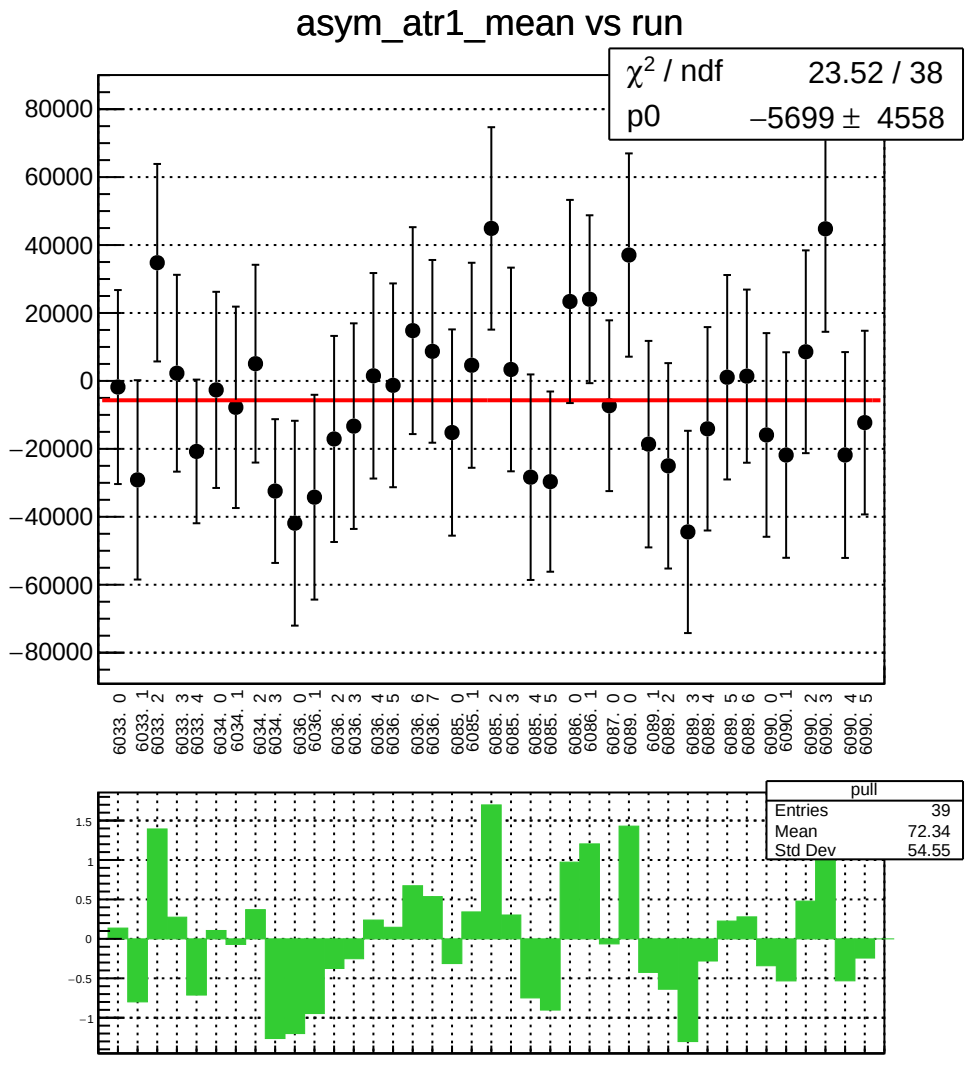

pull1D
Entries 39
Mean 0.009992
Std Dev 0.7639
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

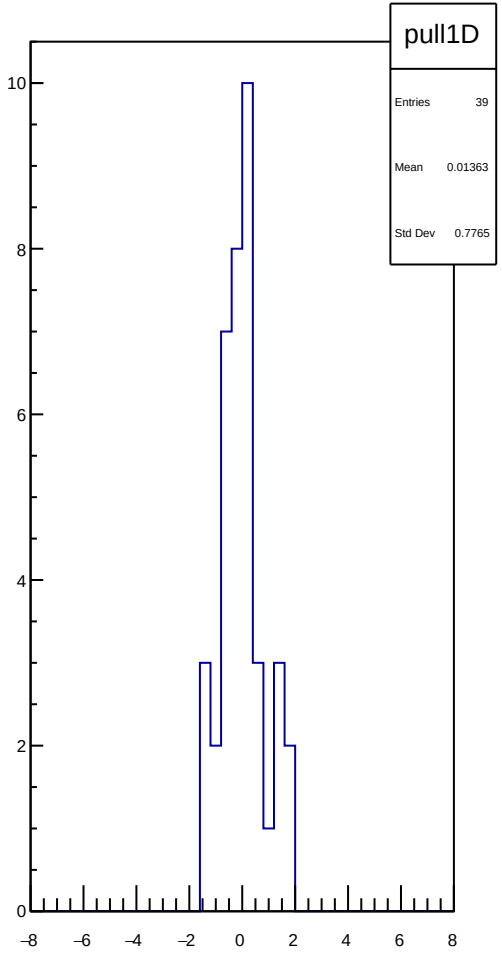

reg_asym_atr1_rms vs run
χ² / ndf 225.6 / 38
p0 2782 ± 3.168
2850
2800
2750
2700
2650
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

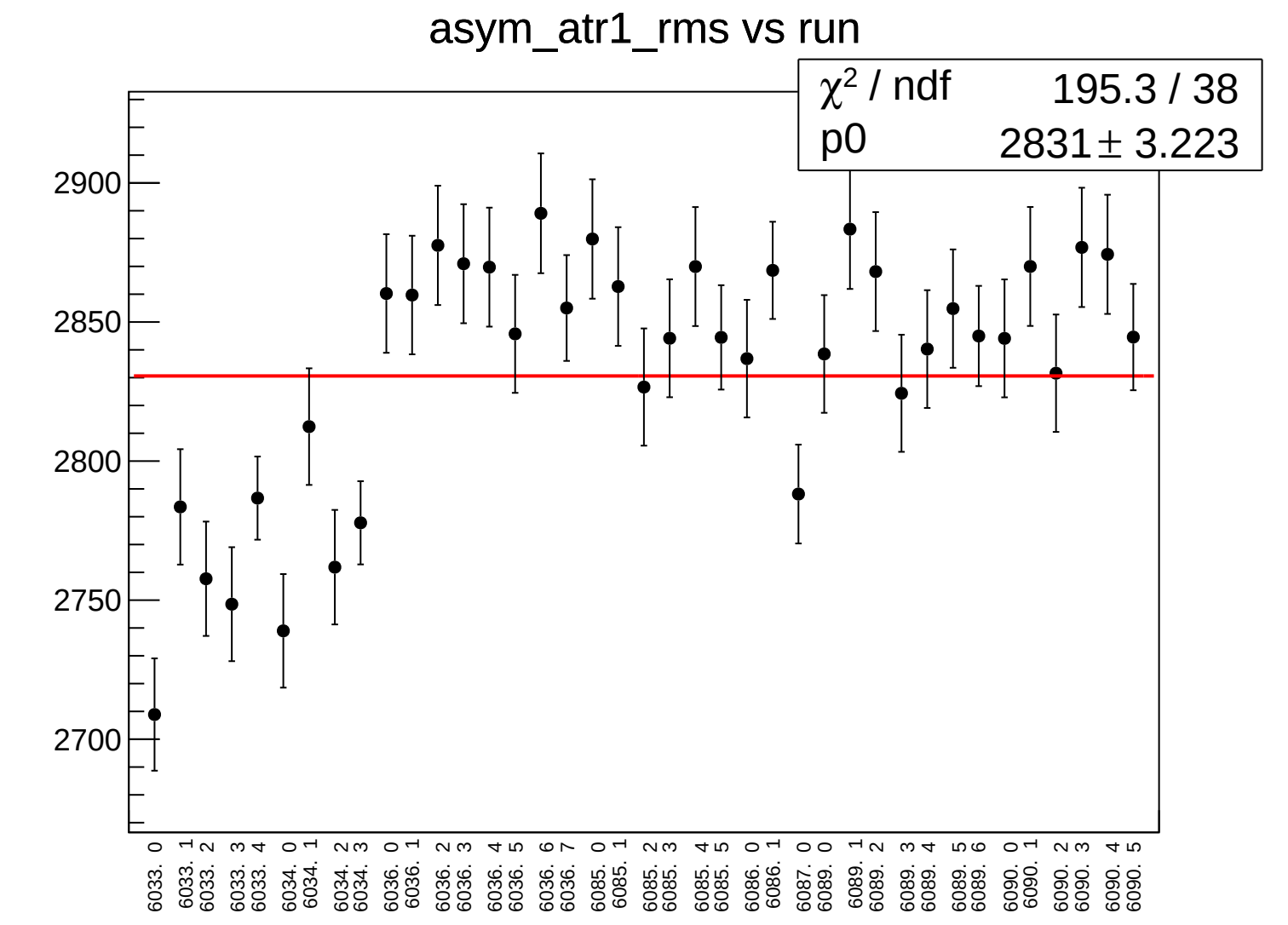

asym_atr1_correction_mean vs run
χ² / ndf 28.97 / 38
p0 642.7 ± 835.1
15000
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −102.9
Std Dev 125.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

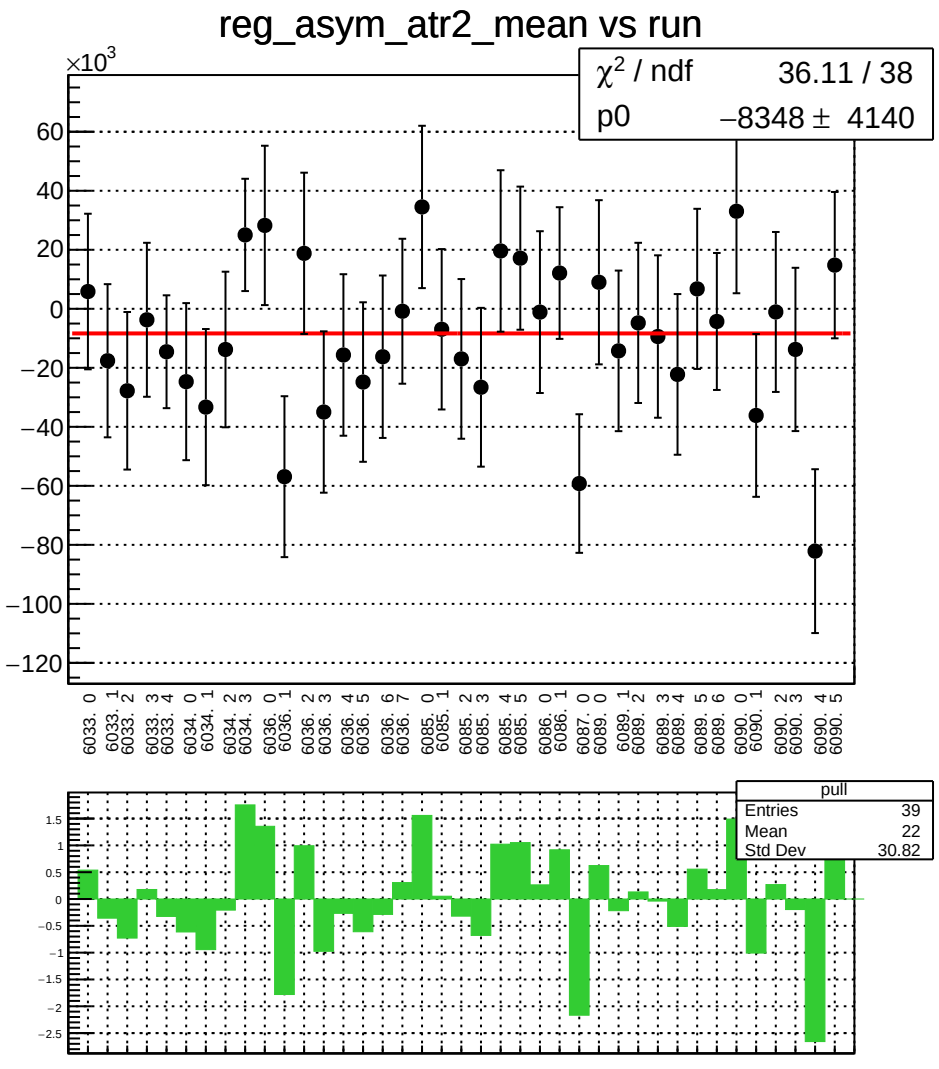

pull1D
Entries 39
Mean −0.01238
Std Dev 0.8618
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

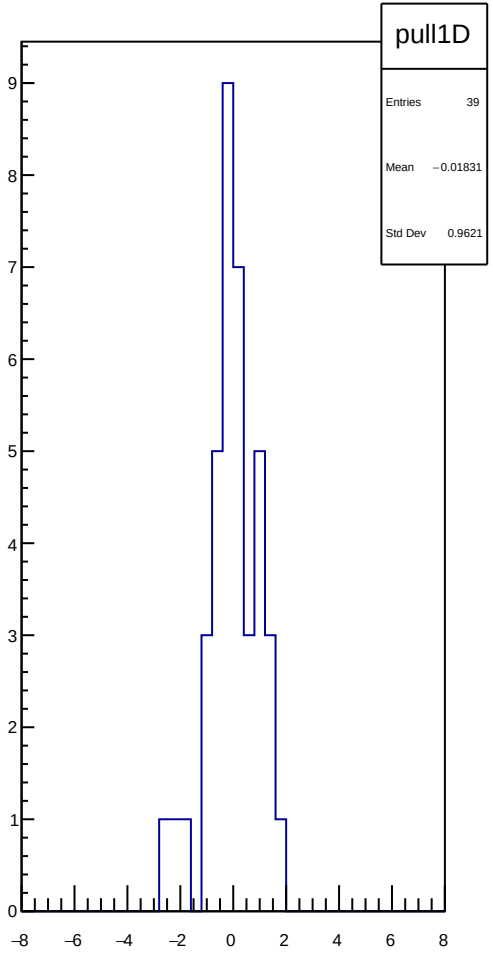

asym_atr1_correction_rms vs run
χ² / ndf 3965 / 38
p0 517.3 ± 0.5905
580
560
540
520
500
480
460
440
420
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

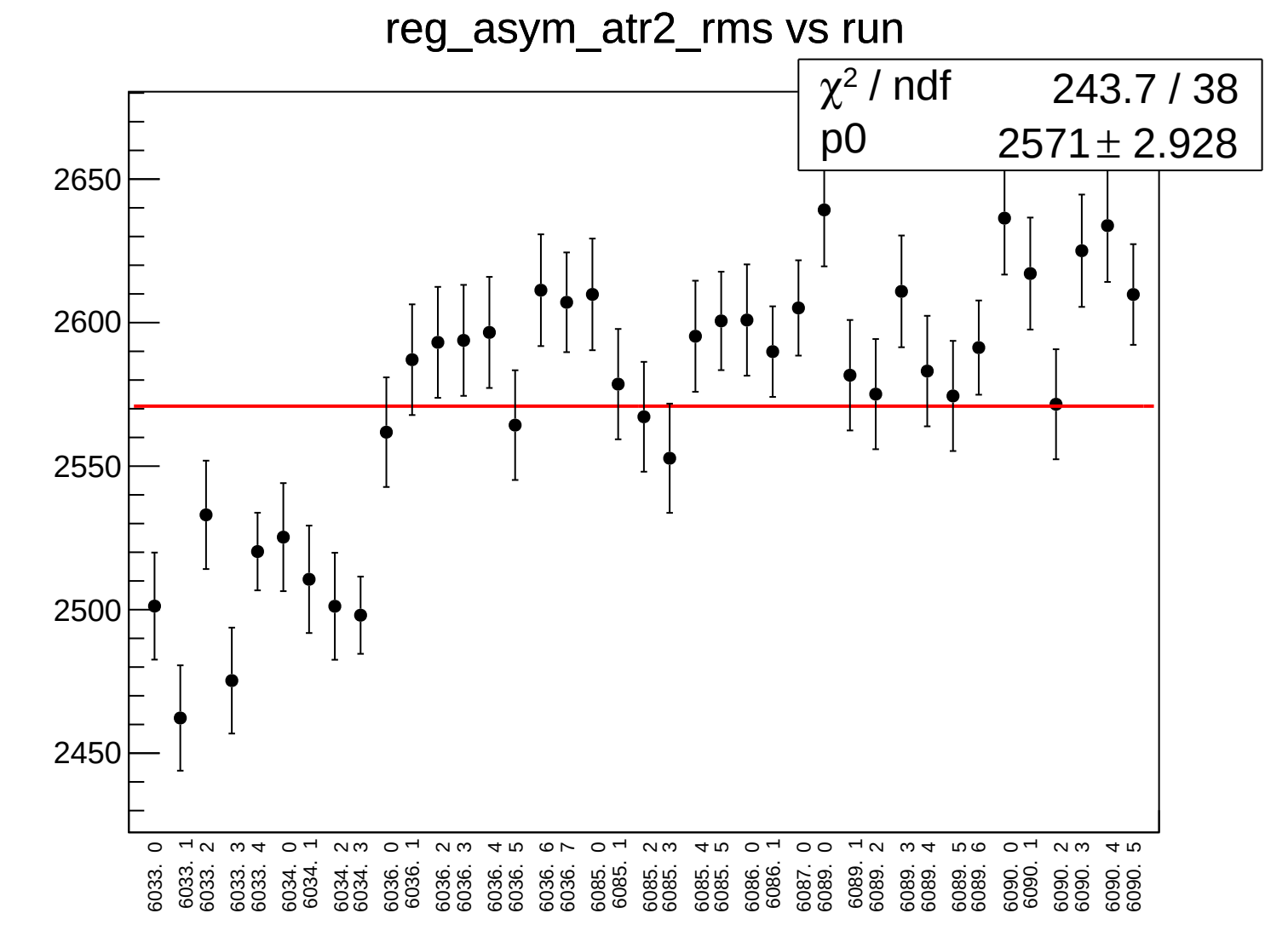

asym_atr1_mean vs run
χ² / ndf 23.52 / 38
p0 −5699 ± 4558
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 72.34
Std Dev 54.55
1.5
1
0.5
0
−0.5
−1

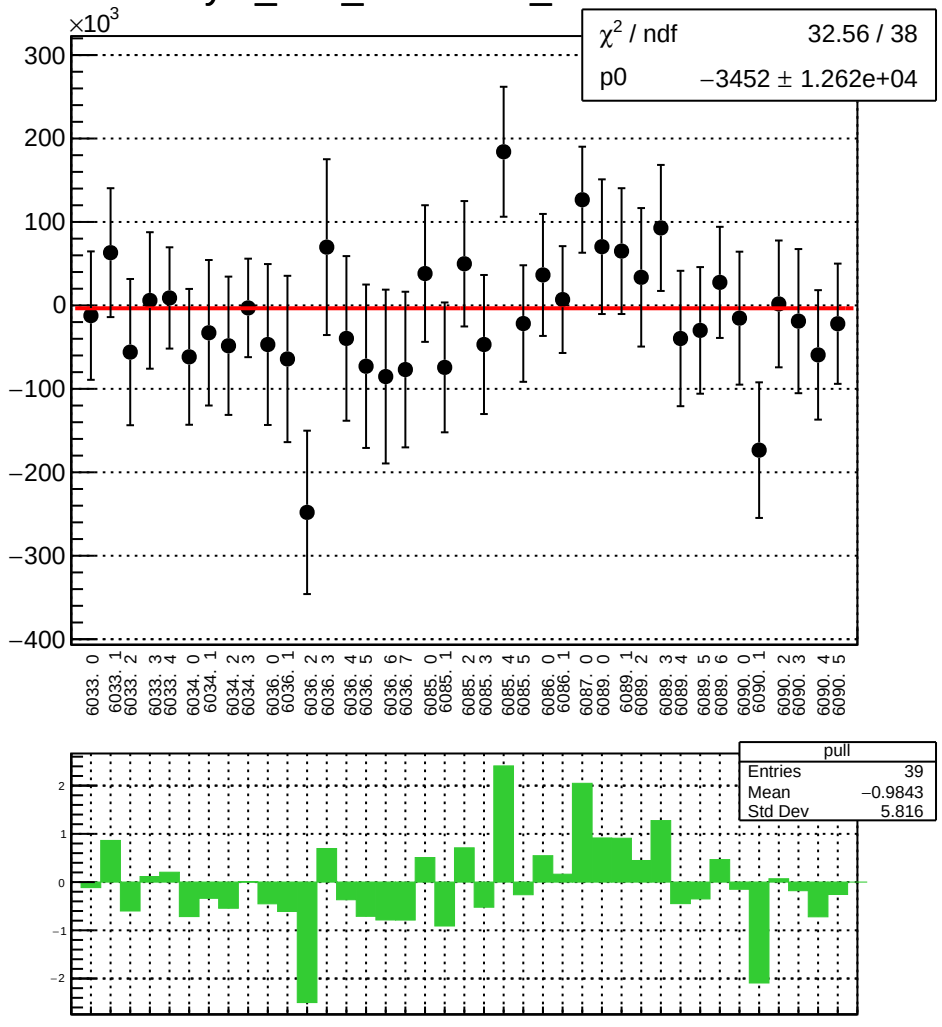

pull1D
Entries 39
Mean 0.01363
Std Dev 0.7765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

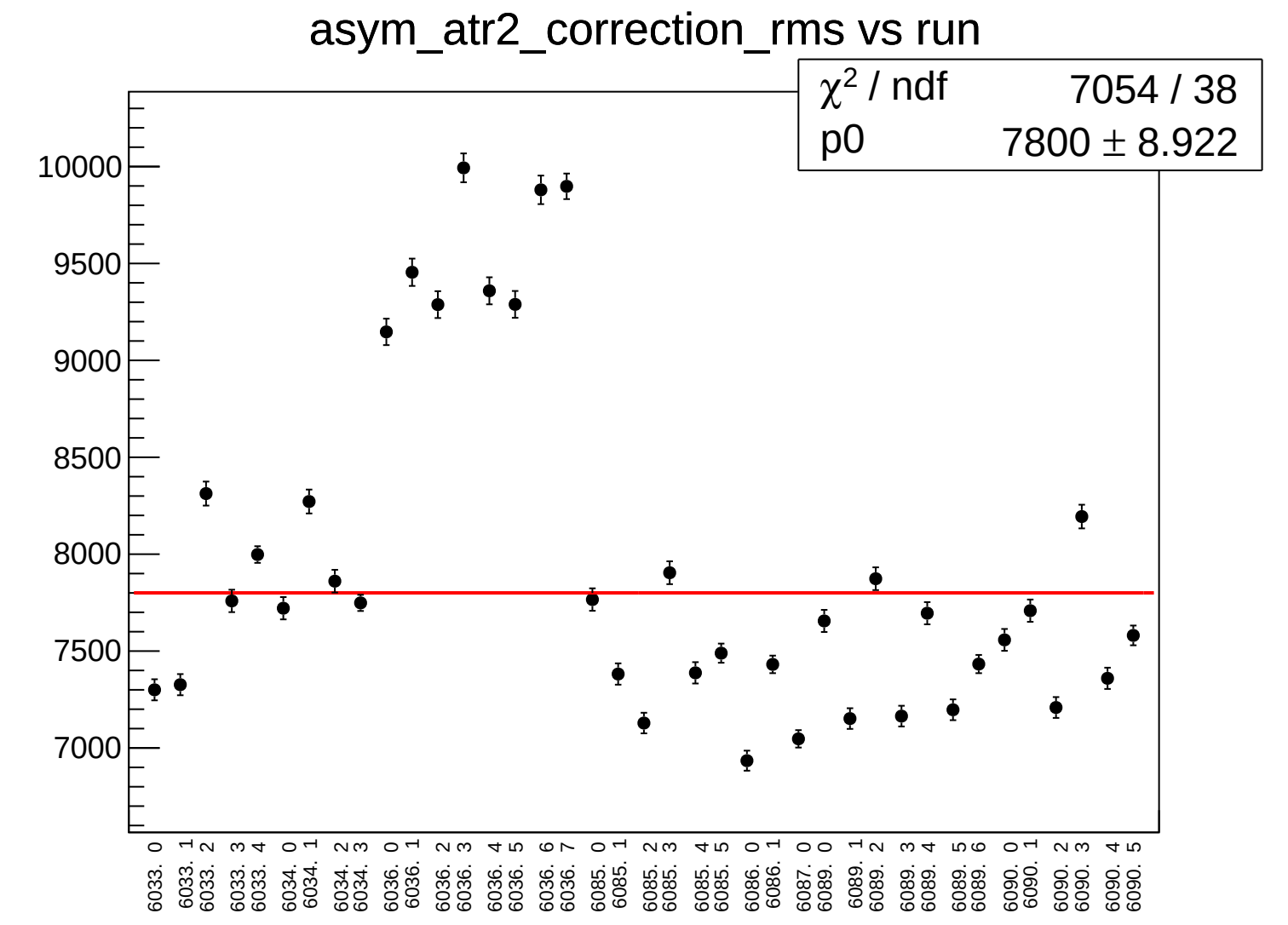

asym_atr1_rms vs run
χ² / ndf 195.3 / 38
p0 2831 ± 3.223
2900
2850
2800
2750
2700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

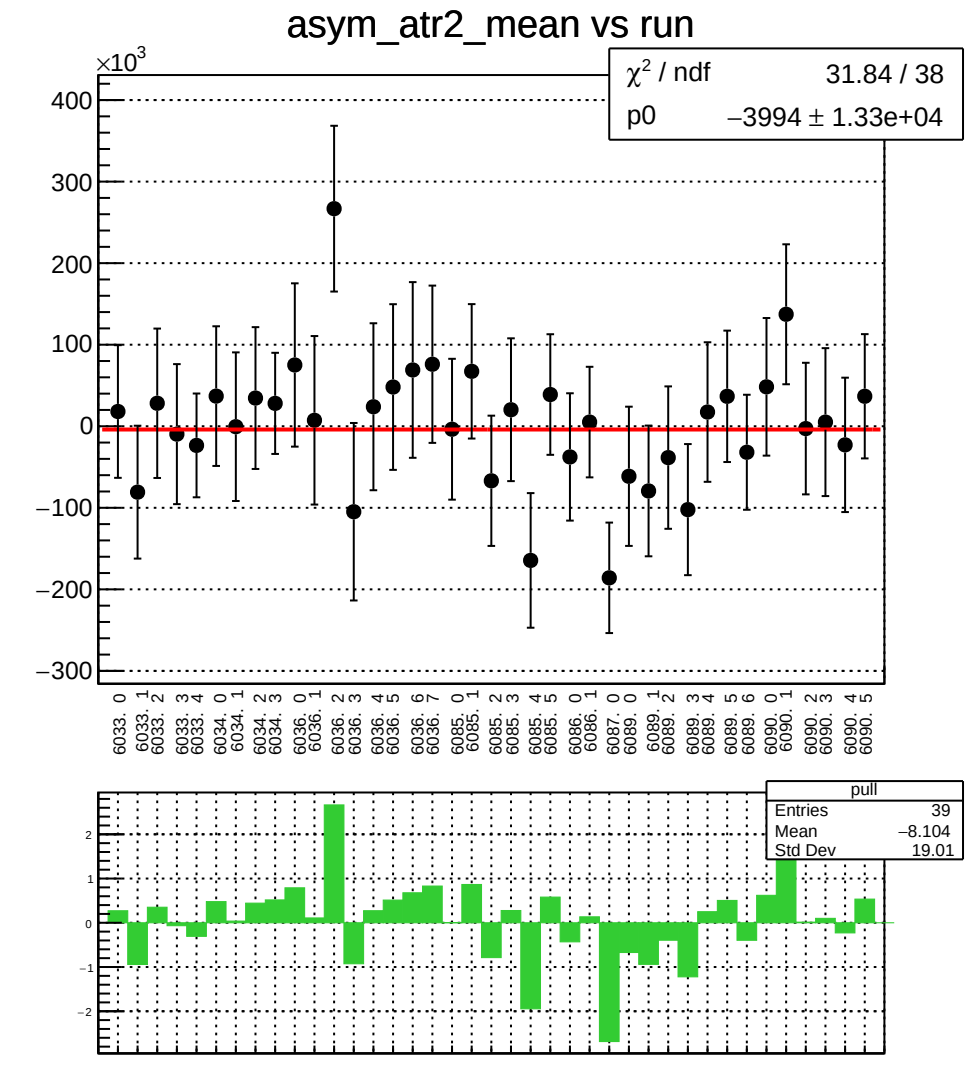

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 36.11 / 38
p0 −8348 ± 4140
60
40
20
0
−20
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 22
Std Dev 30.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

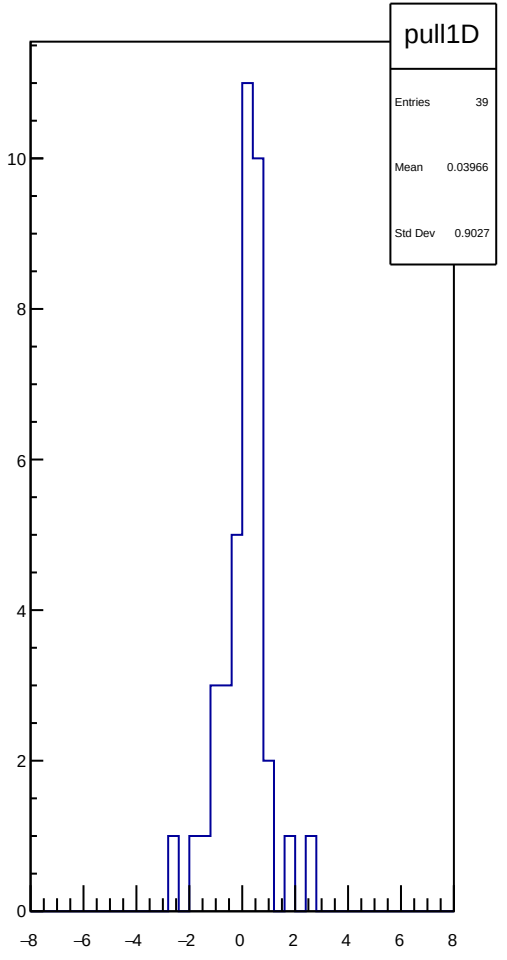

pull1D
Entries 39
Mean −0.01831
Std Dev 0.9621
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

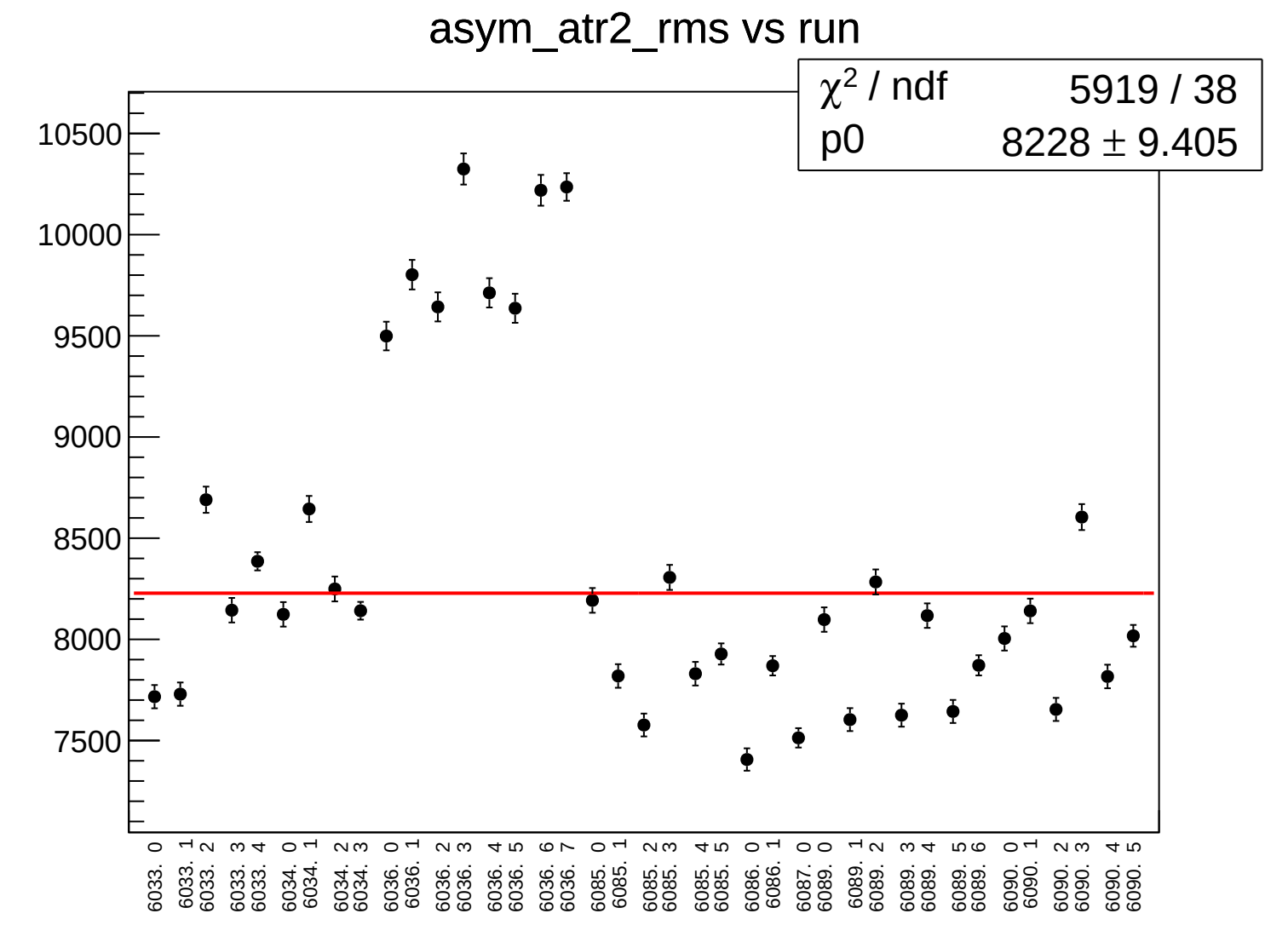

reg_asym_atr2_rms vs run
χ² / ndf 243.7 / 38
p0 2571 ± 2.928
2650
2600
2550
2500
2450
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

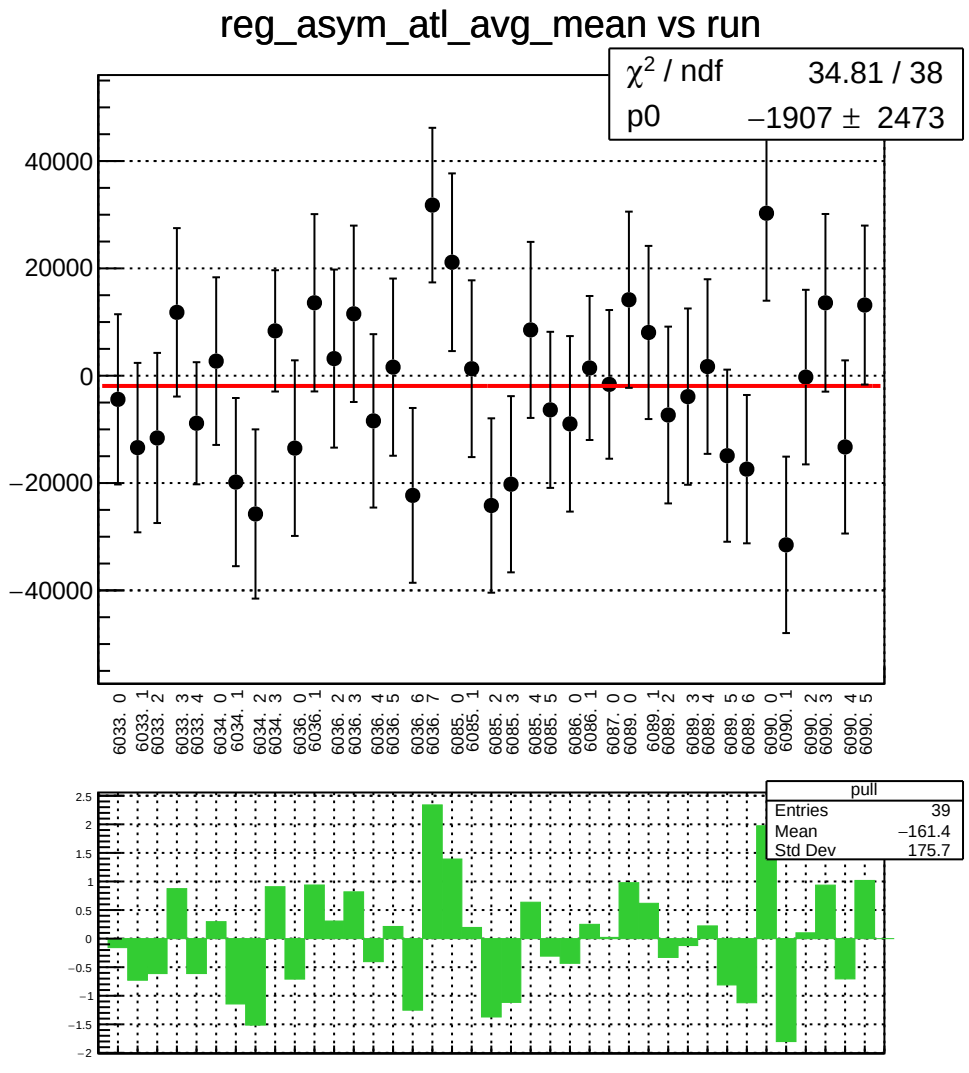

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 32.56 / 38
p0 −3452 ± 1.262e+04
300
200
100
0
−100
−200
−300
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −0.9843
Std Dev 5.816
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05251
Std Dev 0.9122
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

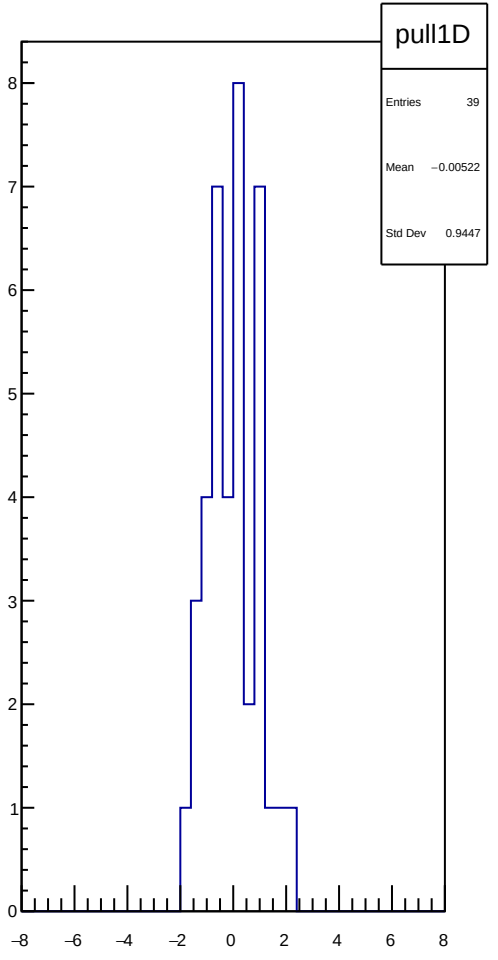

asym_atr2_correction_rms vs run
χ² / ndf 7054 / 38
p0 7800 ± 8.922
10000
9500
9000
8500
8000
7500
7000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

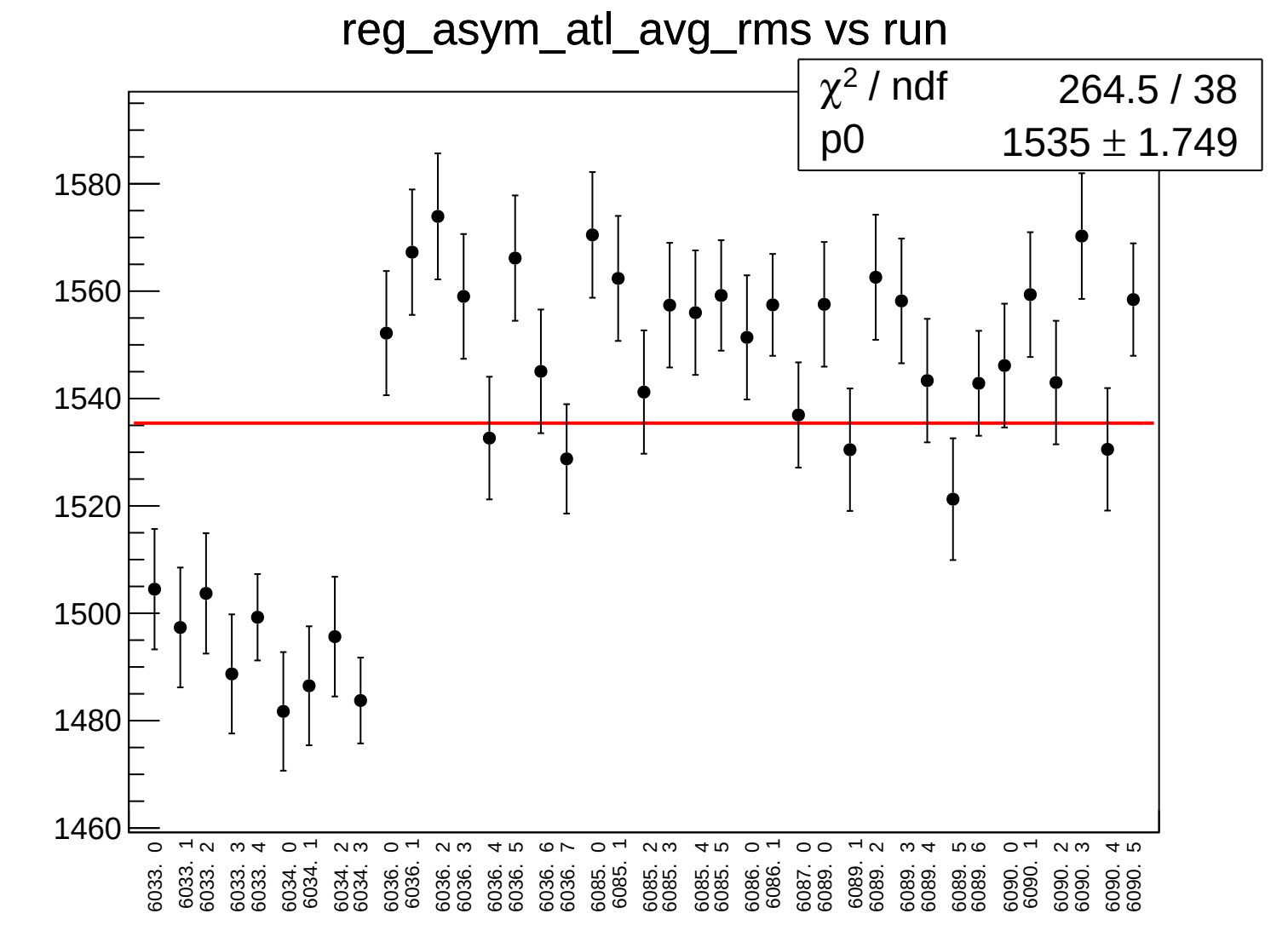

asym_atr2_mean vs run
×10^3
χ² / ndf 31.84 / 38
p0 −3994 ± 1.33e+04
400
300
200
100
0
−100
−200
−300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −8.104
Std Dev 19.01
2
1
0
−1
−2

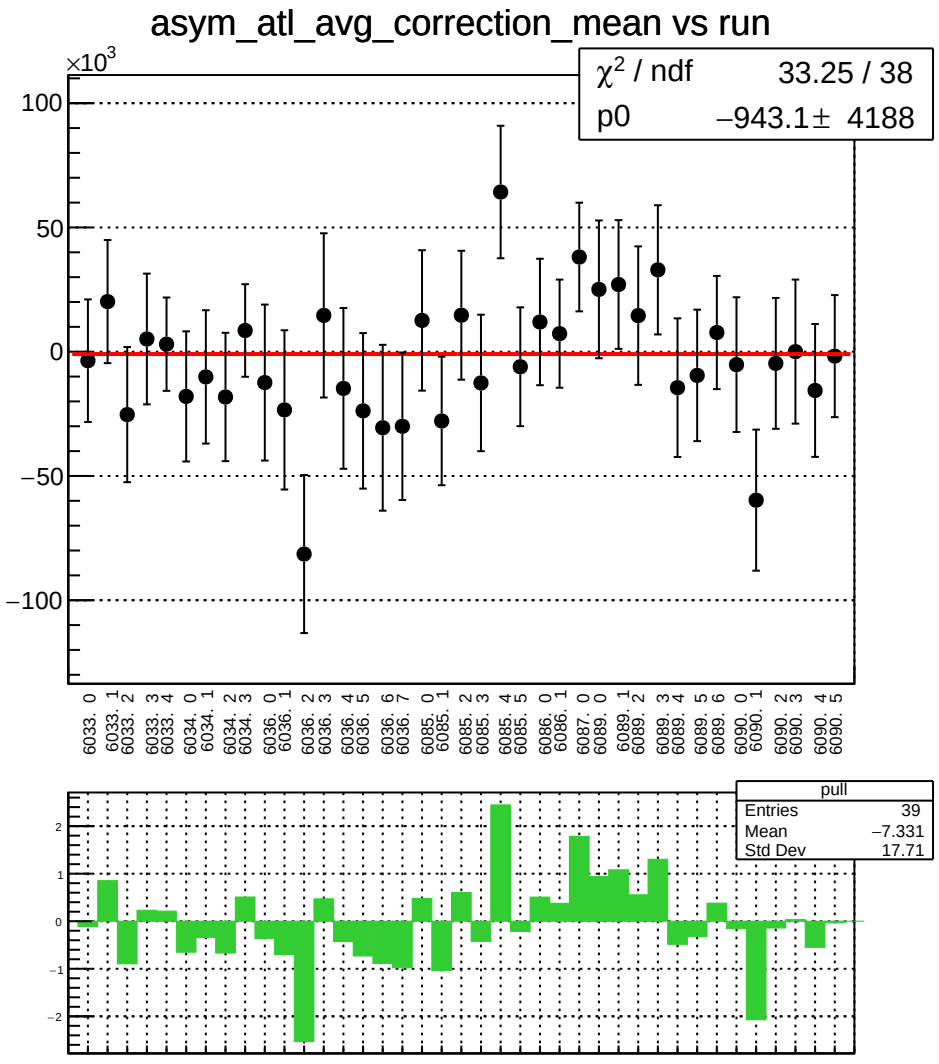

pull1D
Entries 39
Mean 0.03966
Std Dev 0.9027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

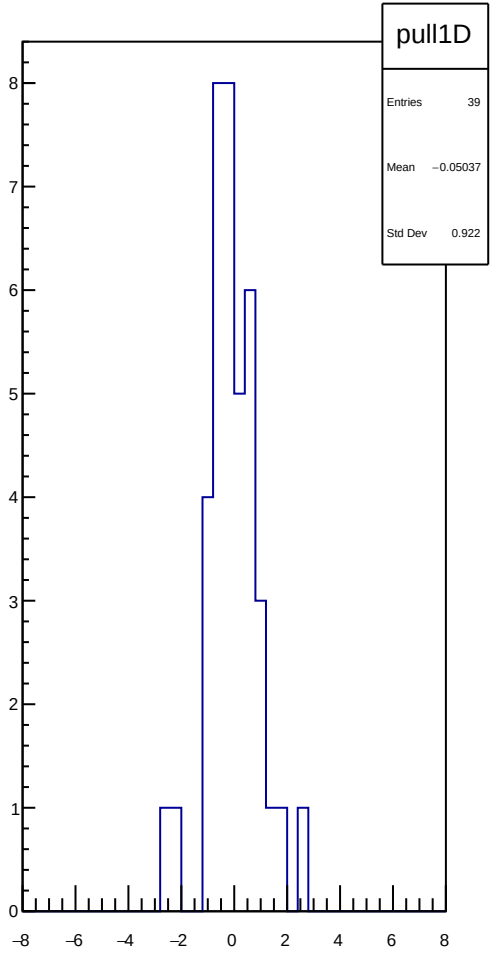

asym_atr2_rms vs run
χ² / ndf 5919 / 38
p0 8228 ± 9.405
10500
10000
9500
9000
8500
8000
7500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

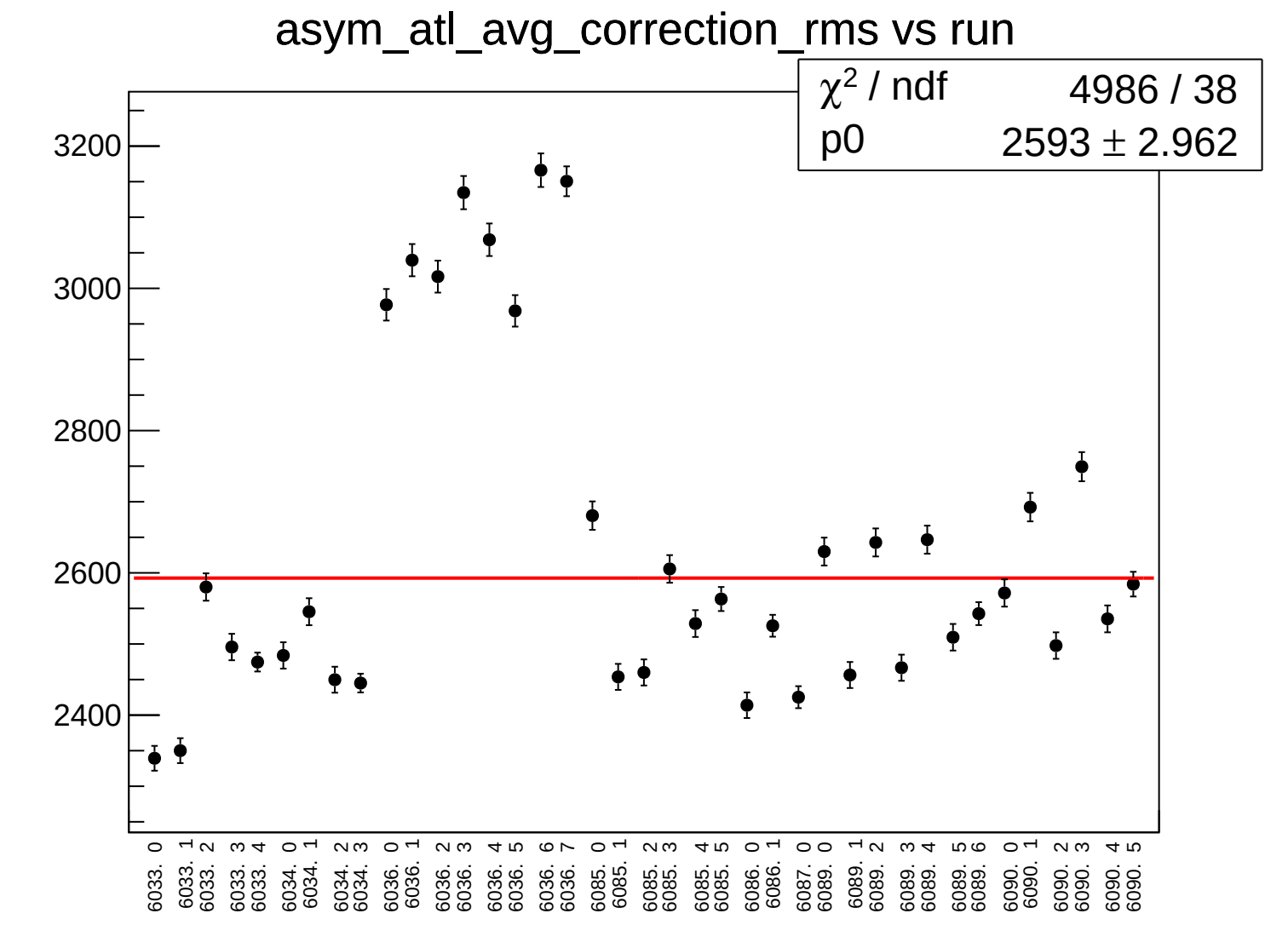

reg_asym_atl_avg_mean vs run
χ² / ndf 34.81 / 38
p0 −1907 ± 2473
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −161.4
Std Dev 175.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

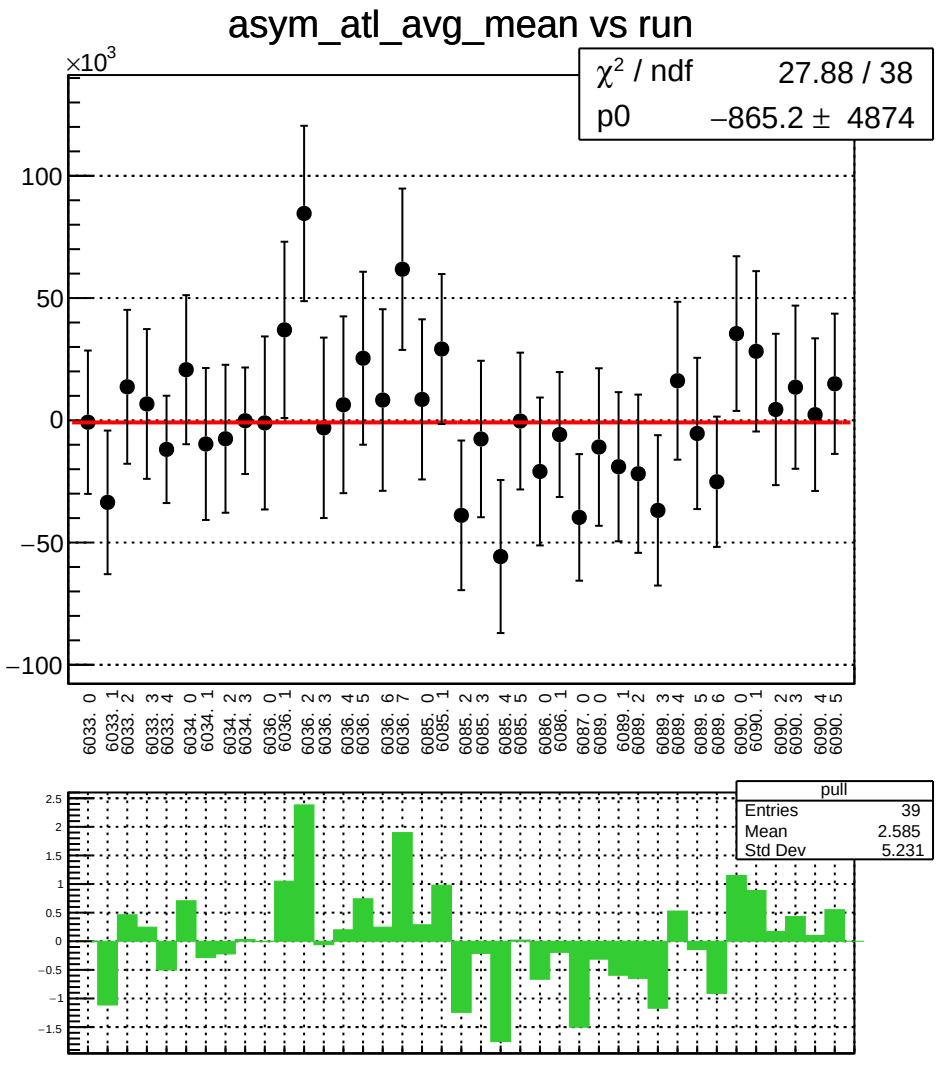

pull1D
Entries 39
Mean −0.00522
Std Dev 0.9447
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

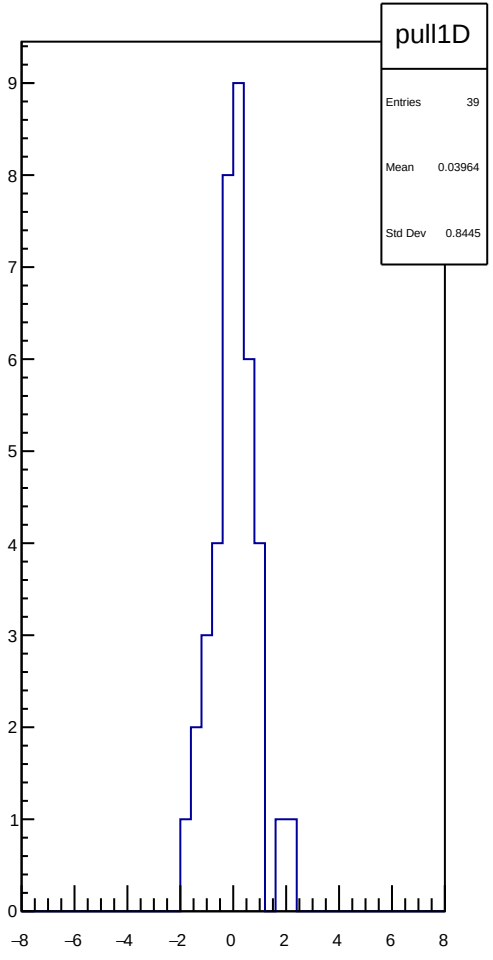

reg_asym_atl_avg_rms vs run
χ² / ndf 264.5 / 38
p0 1535 ± 1.749
1580
1560
1540
1520
1500
1480
1460
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

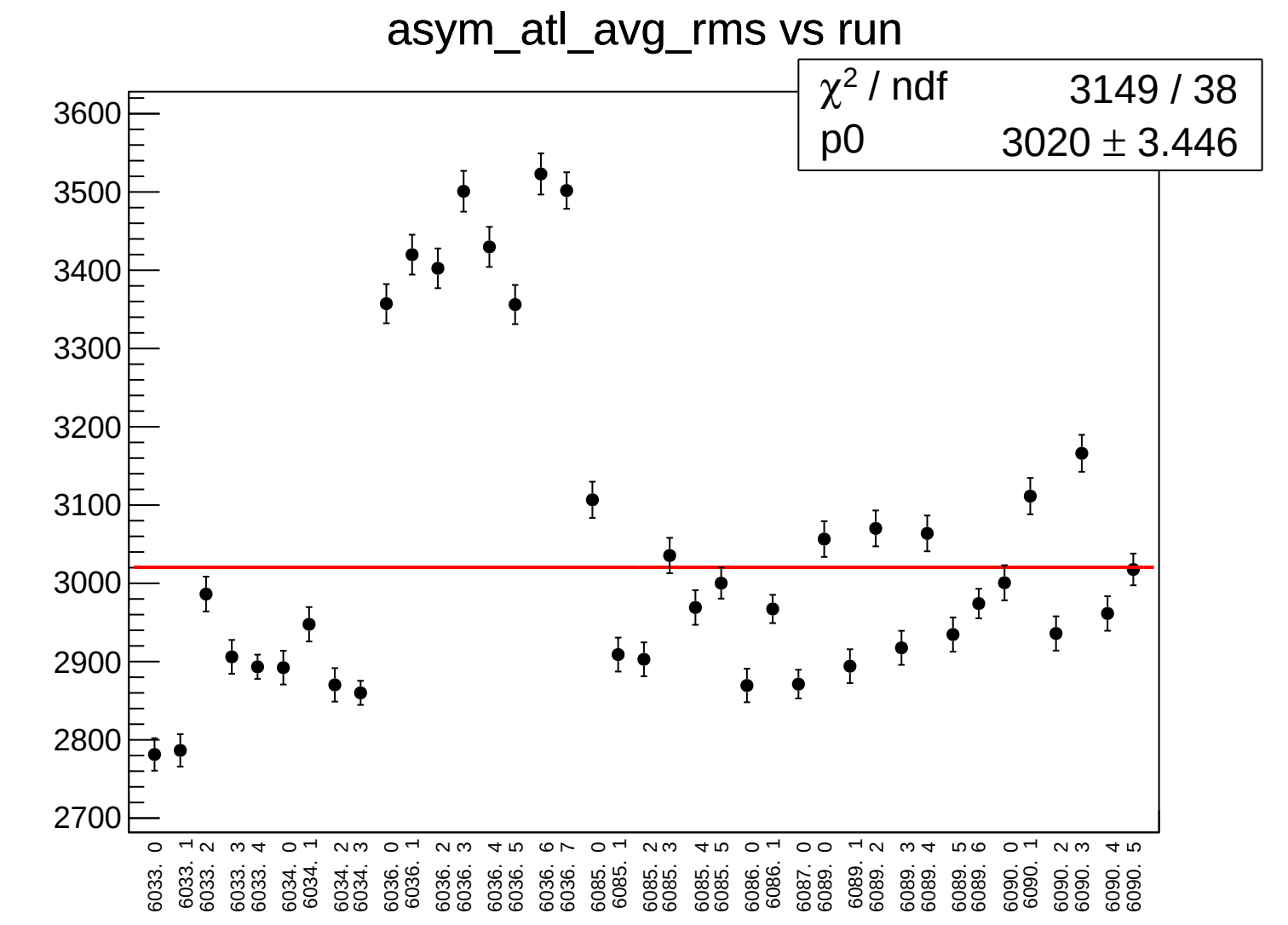

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 33.25 / 38
p0 −943.1± 4188
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −7.331
Std Dev 17.71
2
1
0
−1
−2

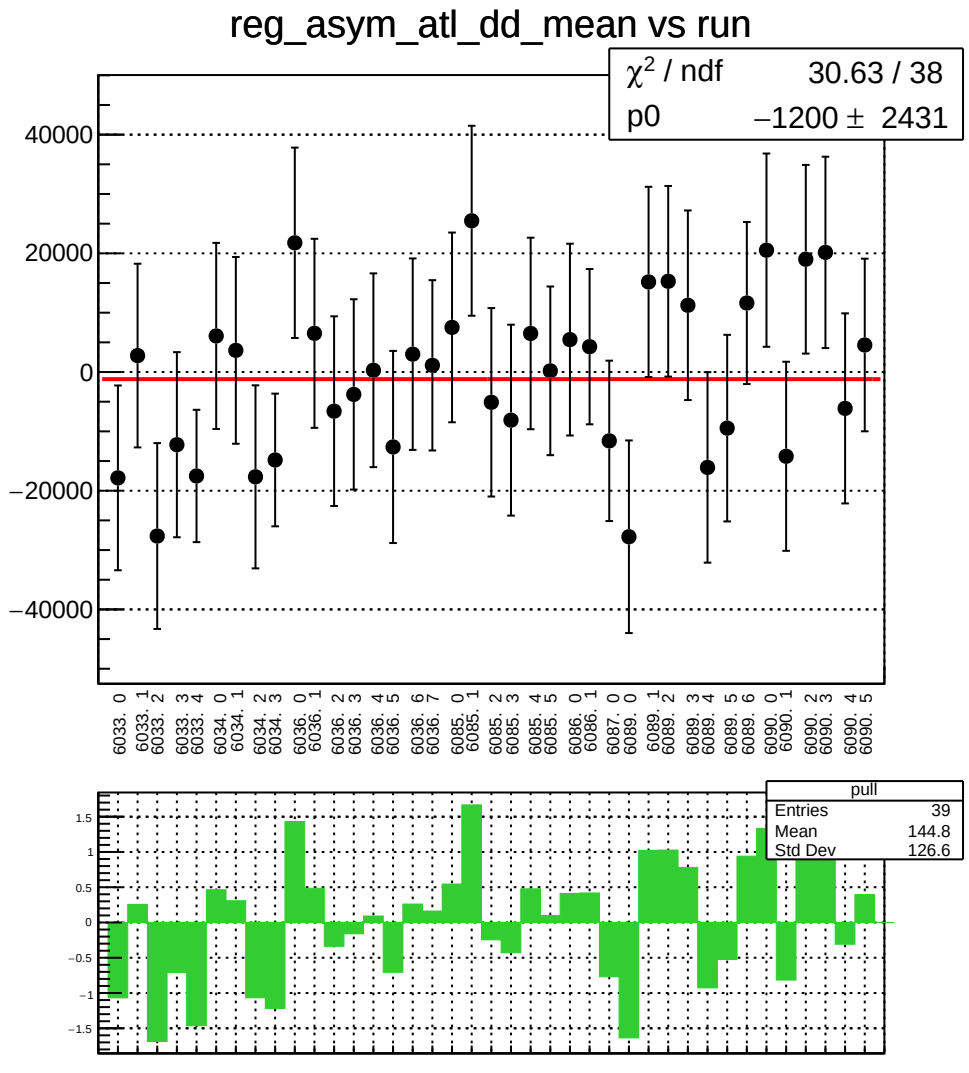

pull1D
Entries 39
Mean −0.05037
Std Dev 0.922
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

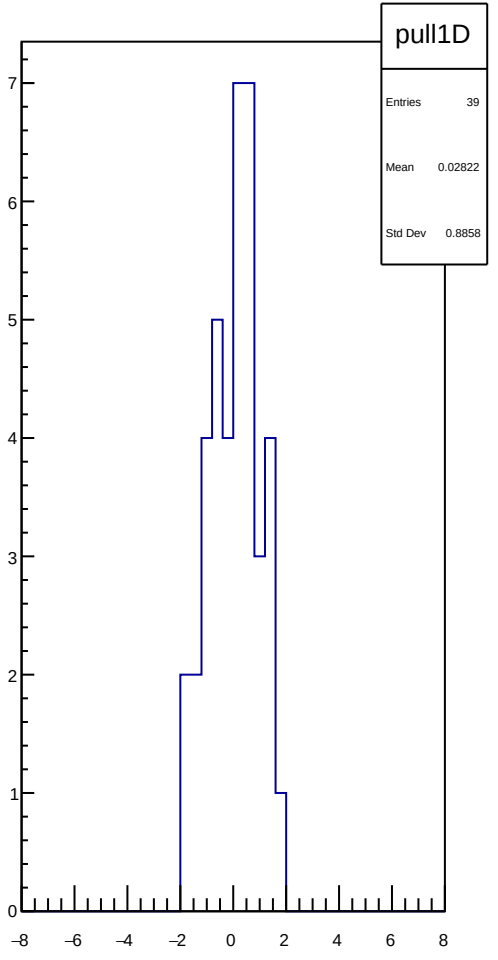

asym_atl_avg_correction_rms vs run
χ² / ndf 4986 / 38
p0 2593 ± 2.962
3200
3000
2800
2600
2400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

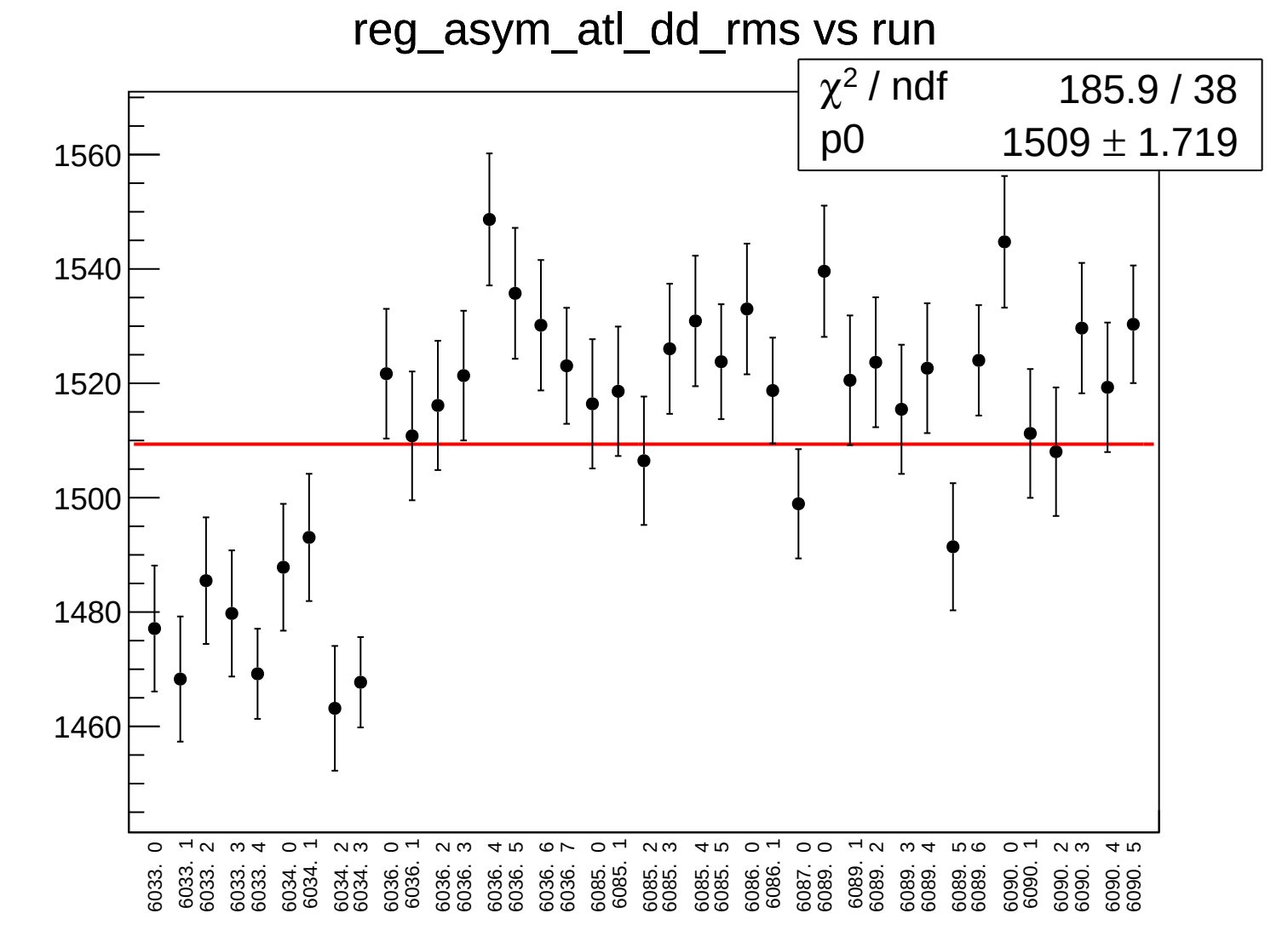

asym_atl_avg_mean vs run
×10^3
χ² / ndf 27.88 / 38
p0 −865.2 ± 4874
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 2.585
Std Dev 5.231
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

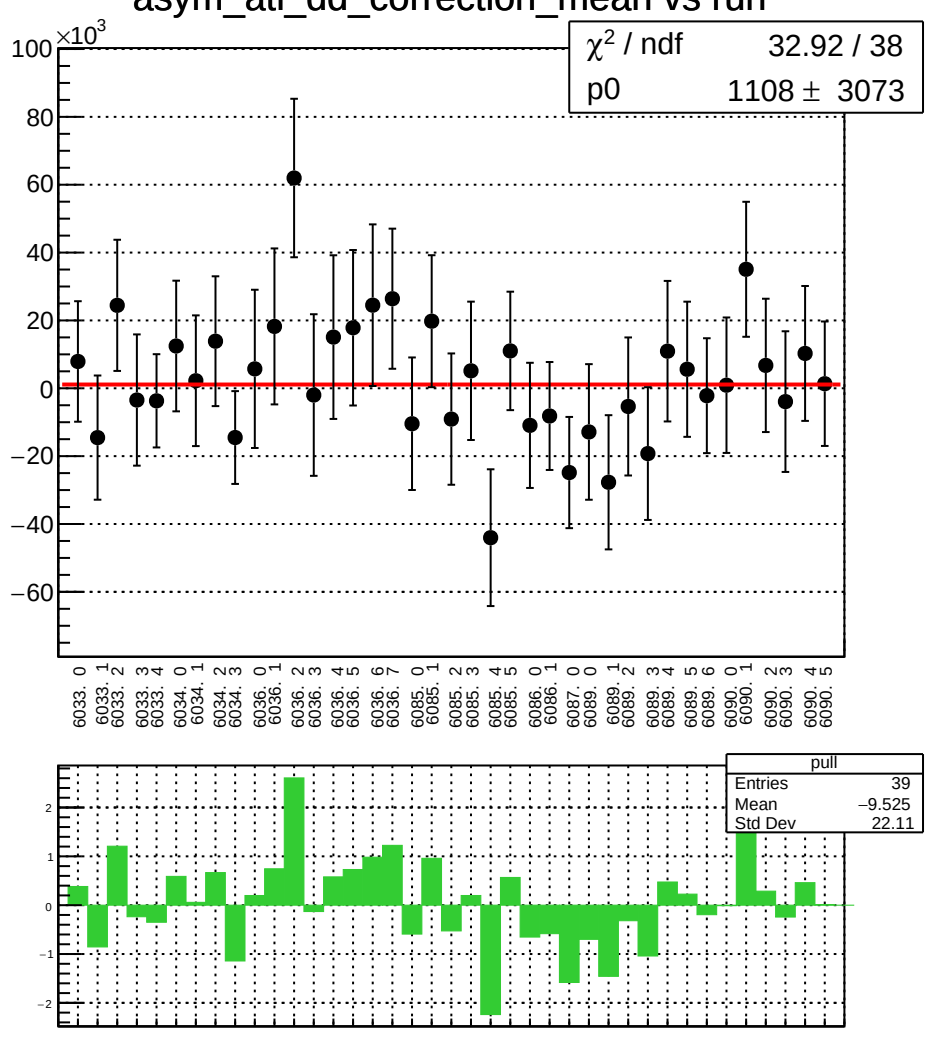

pull1D
Entries 39
Mean 0.03964
Std Dev 0.8445
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

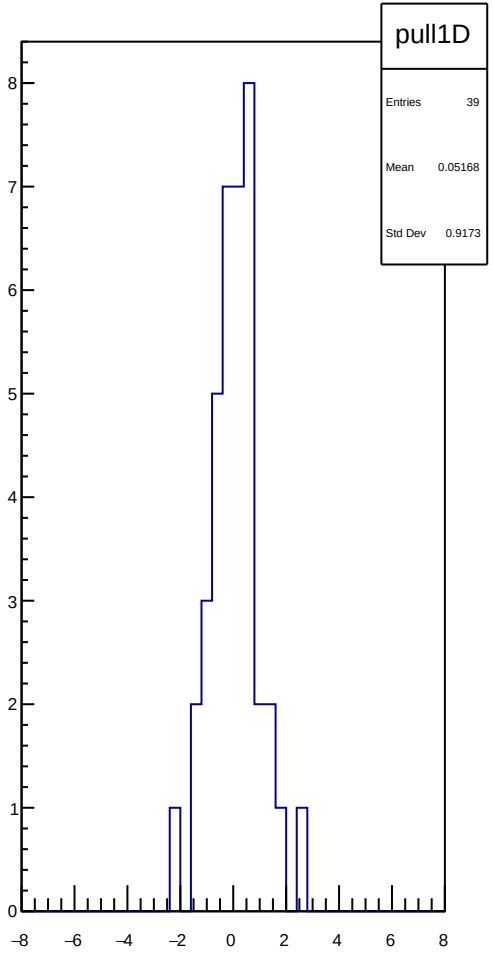

asym_atl_avg_rms vs run
χ² / ndf 3149 / 38
p0 3020 ± 3.446
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

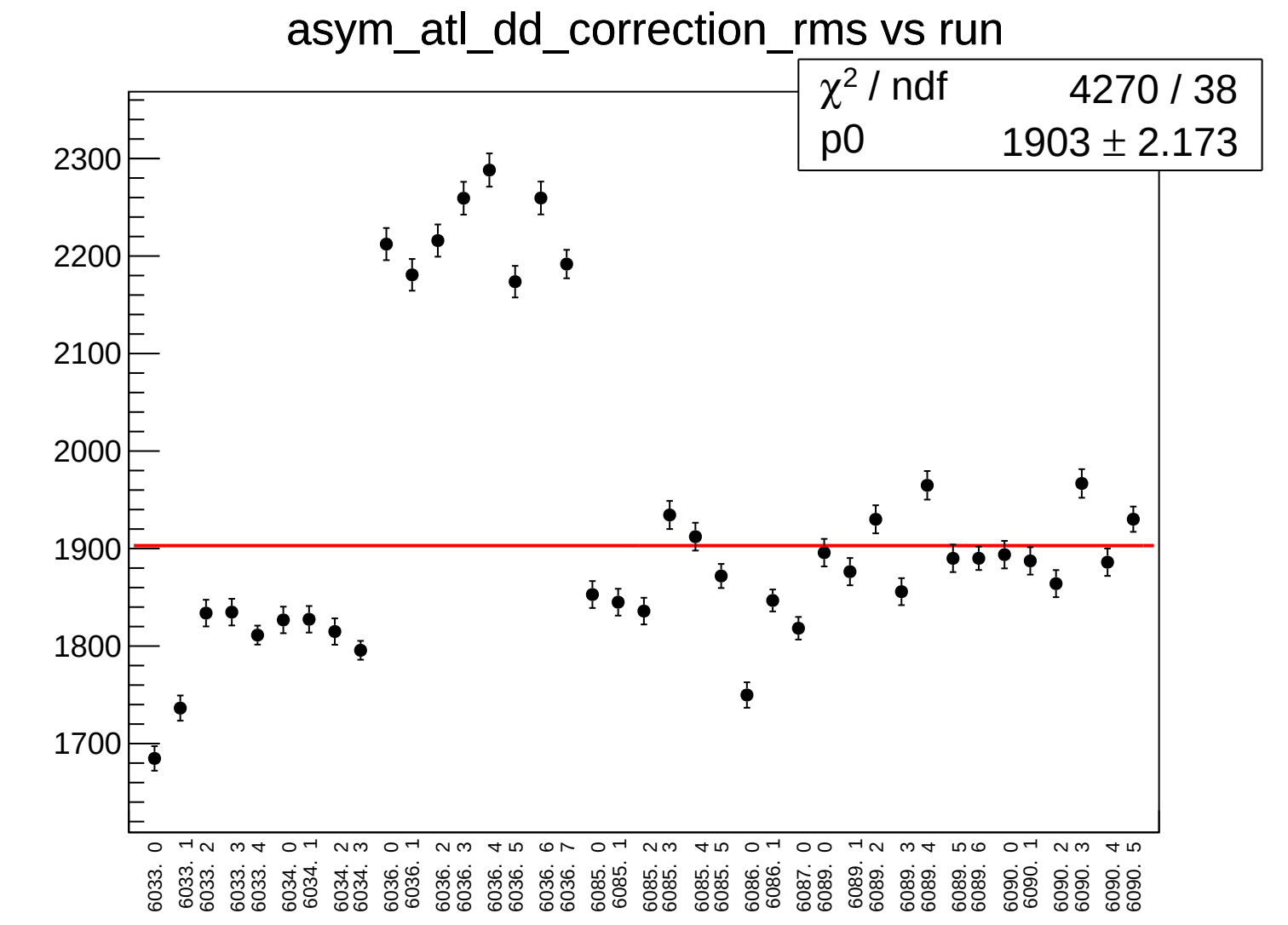

reg_asym_atl_dd_mean vs run
χ² / ndf 30.63 / 38
p0 −1200 ± 2431
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 144.8
Std Dev 126.6
1.5
1
0.5
0
−0.5
−1
−1.5

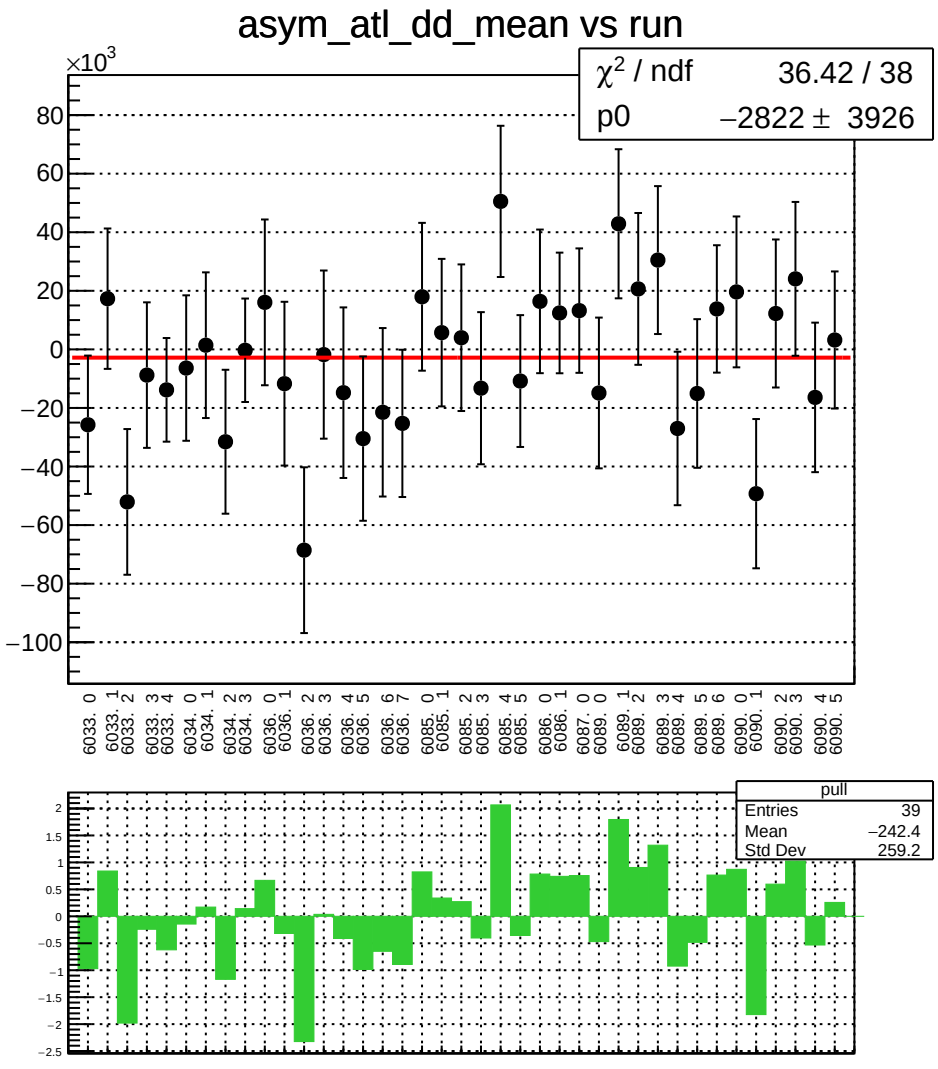

pull1D
Entries 39
Mean 0.02822
Std Dev 0.8858
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

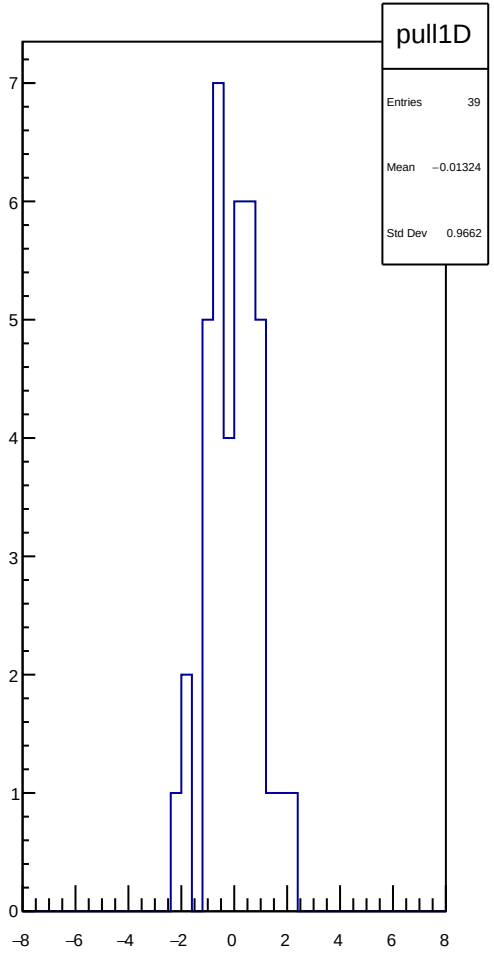

reg_asym_atl_dd_rms vs run
χ² / ndf 185.9 / 38
p0 1509 ± 1.719
1560
1540
1520
1500
1480
1460
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

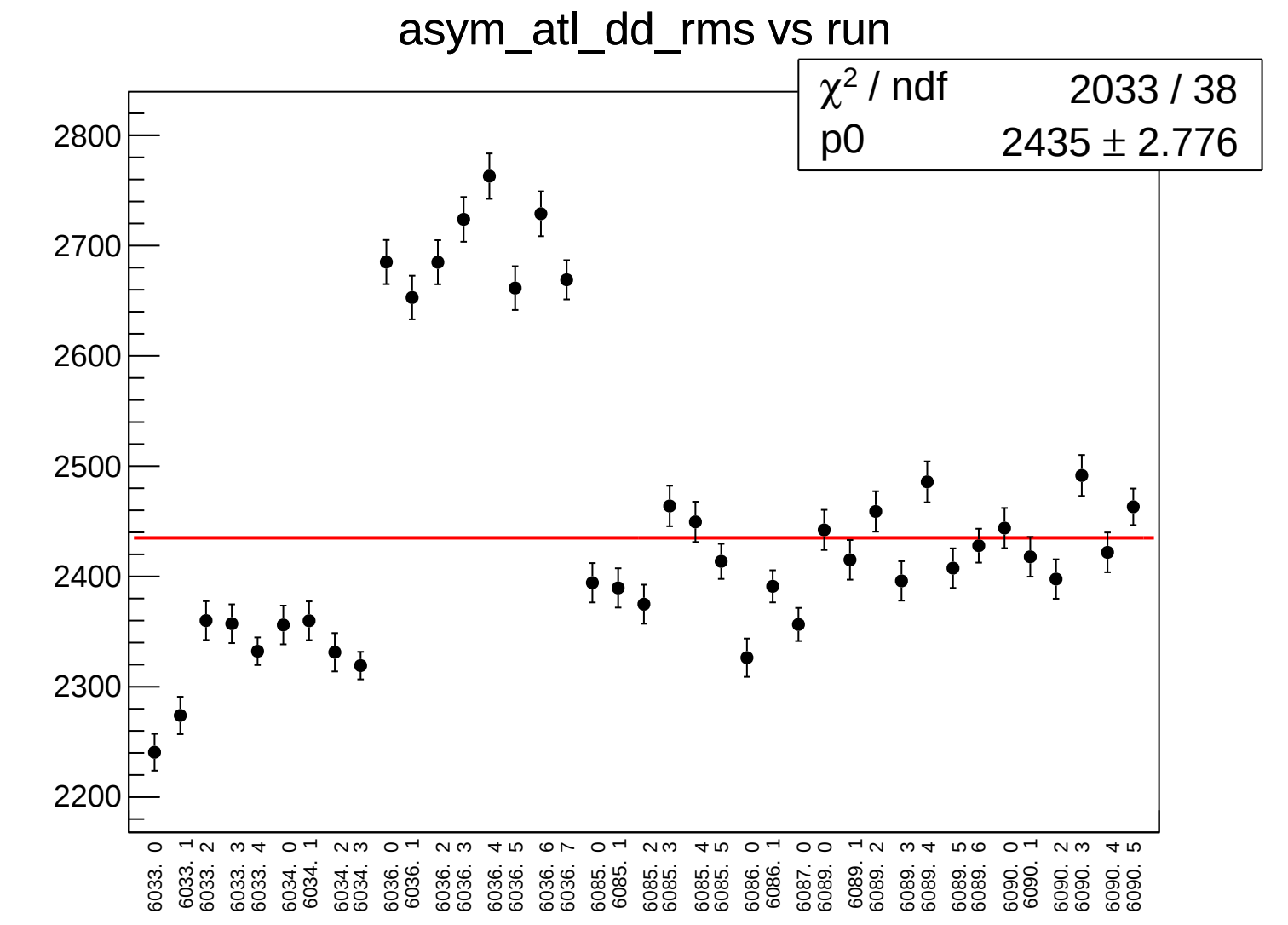

asym_atl_dd_correction_mean vs run
χ² / ndf 32.92 / 38
p0 1108 ± 3073
×10³
pull
Entries 39
Mean −9.525
Std Dev 22.11

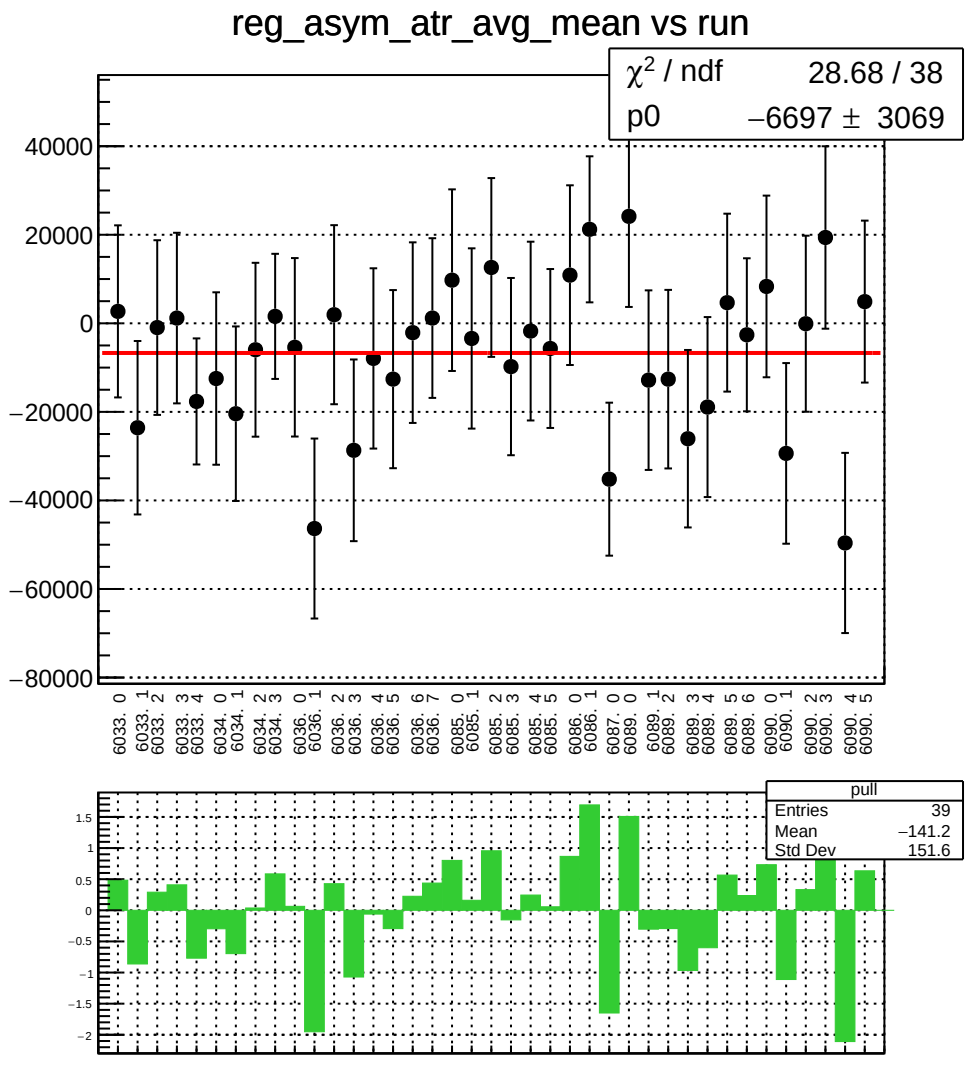

pull1D
Entries 39
Mean 0.05168
Std Dev 0.9173

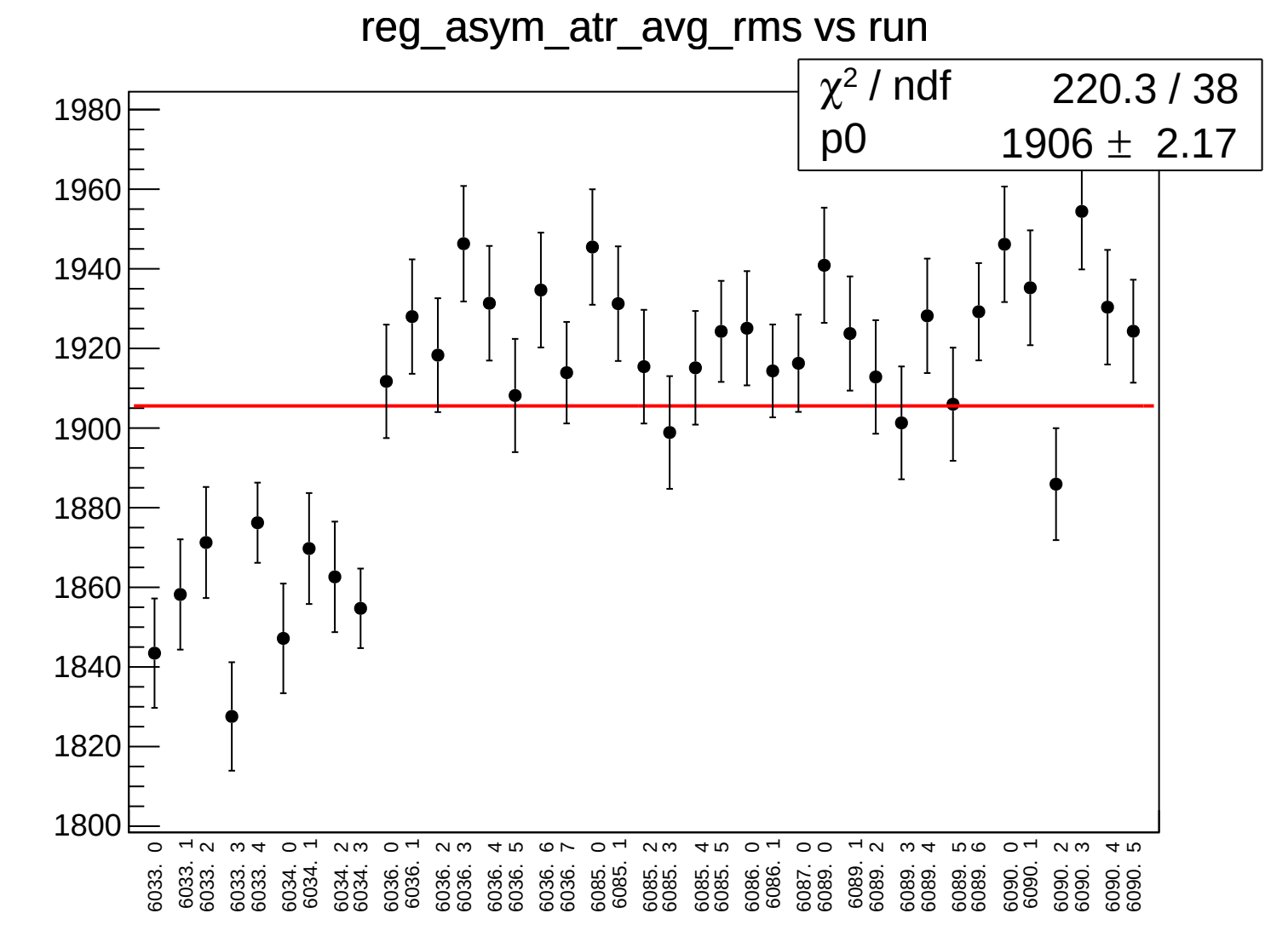

asym_atl_dd_correction_rms vs run
χ² / ndf 4270 / 38
p0 1903 ± 2.173
2300
2200
2100
2000
1900
1800
1700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

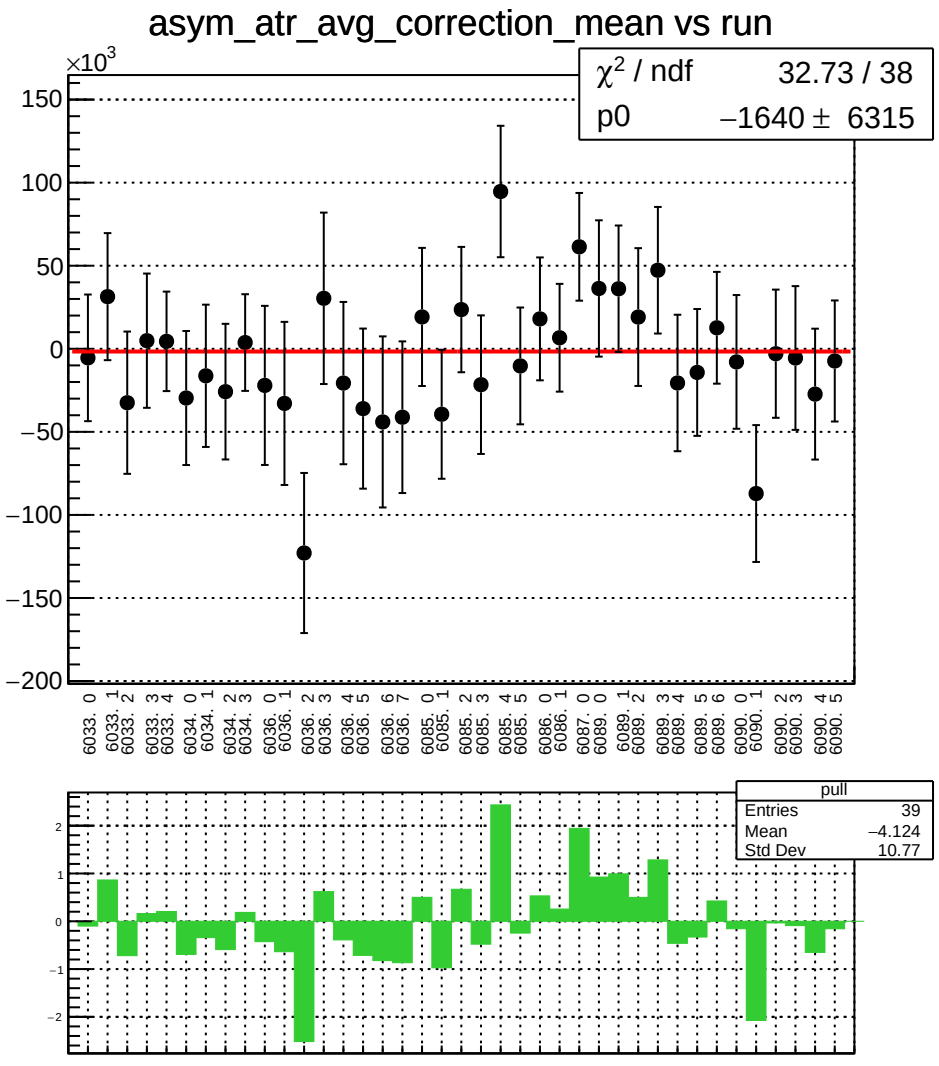

asym_atl_dd_mean vs run
×10^3
χ² / ndf 36.42 / 38
p0 −2822 ± 3926
pull
Entries 39
Mean −242.4
Std Dev 259.2

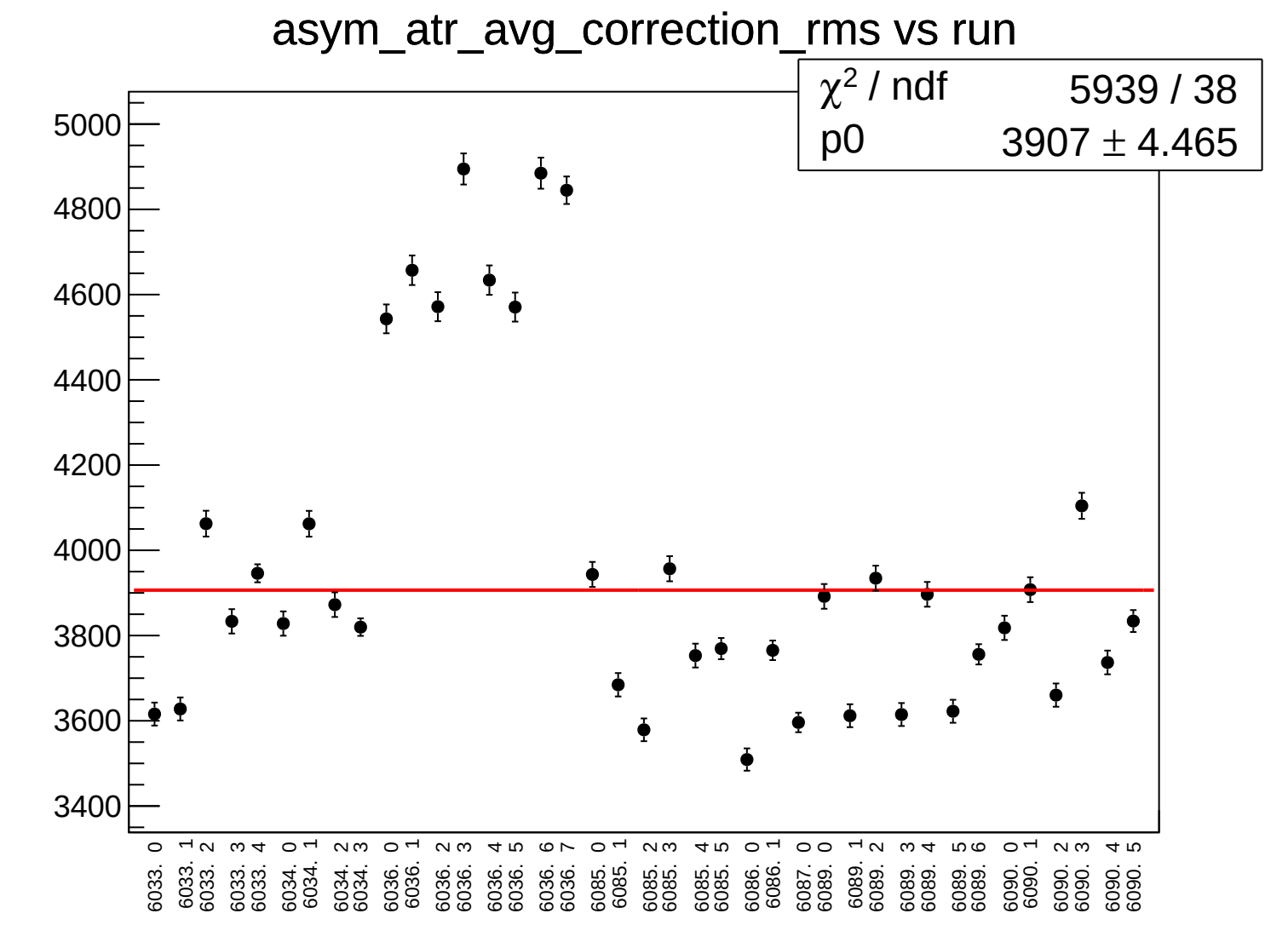

pull1D
Entries 39
Mean −0.01324
Std Dev 0.9662

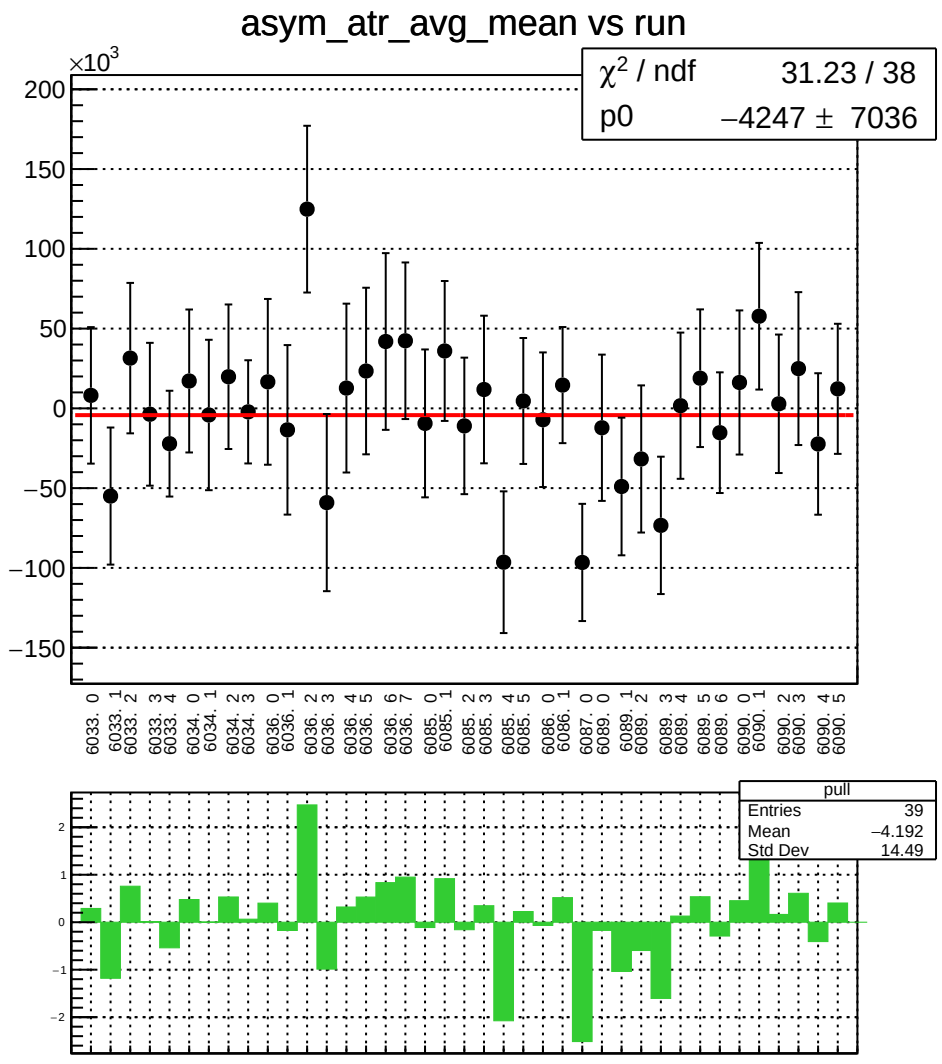

asym_atl_dd_rms vs run
χ² / ndf 2033 / 38
p0 2435 ± 2.776
2800
2700
2600
2500
2400
2300
2200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

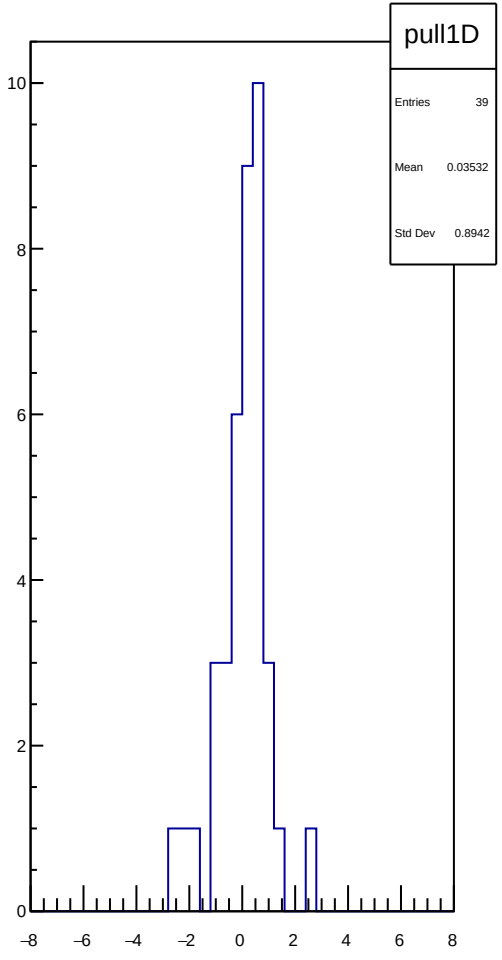

reg_asym_atr_avg_mean vs run
χ² / ndf 28.68 / 38
p0 −6697 ± 3069
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −141.2
Std Dev 151.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.004418
Std Dev 0.8575
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

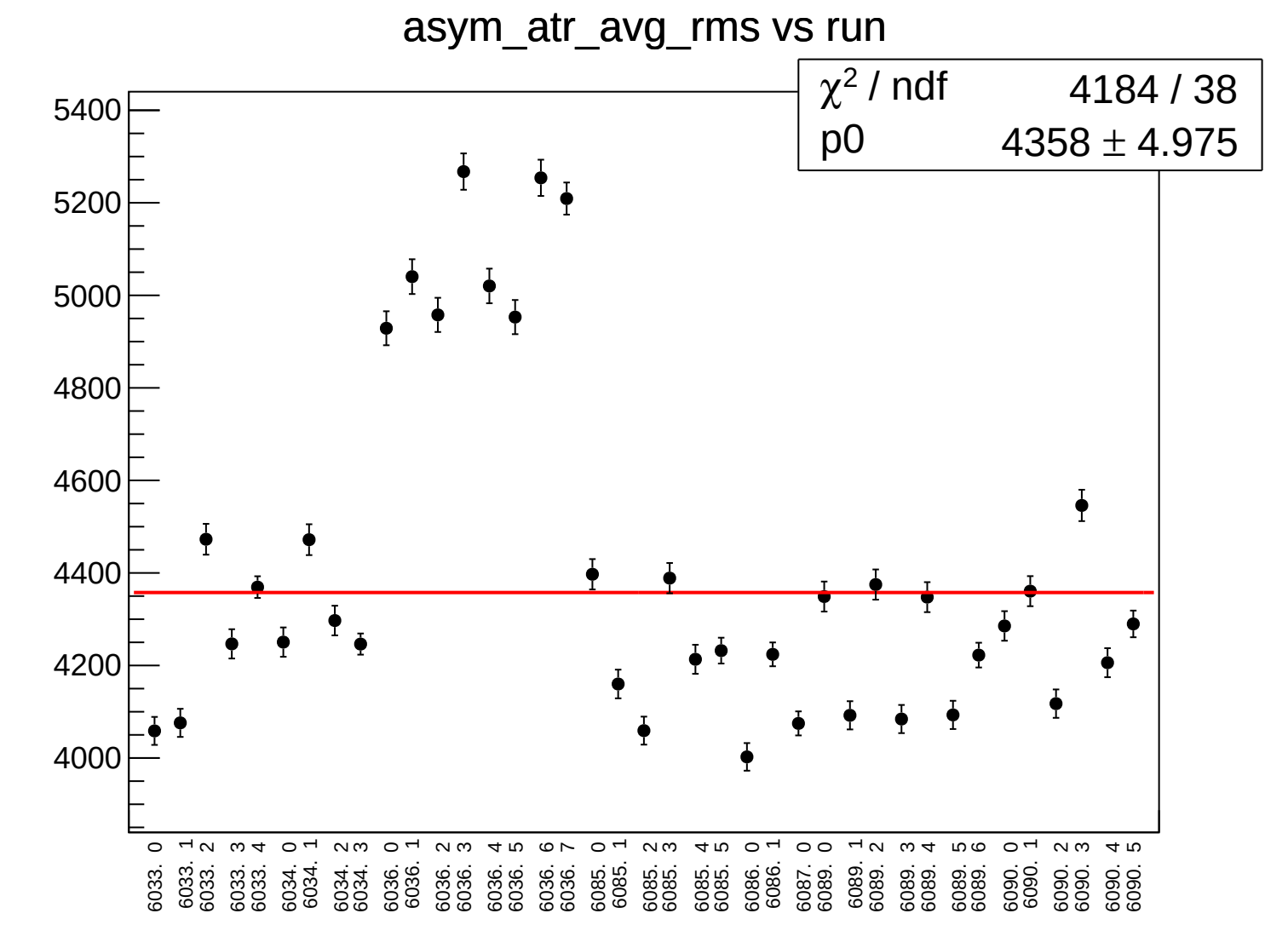

reg_asym_atr_avg_rms vs run
χ² / ndf 220.3 / 38
p0 1906 ± 2.17
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

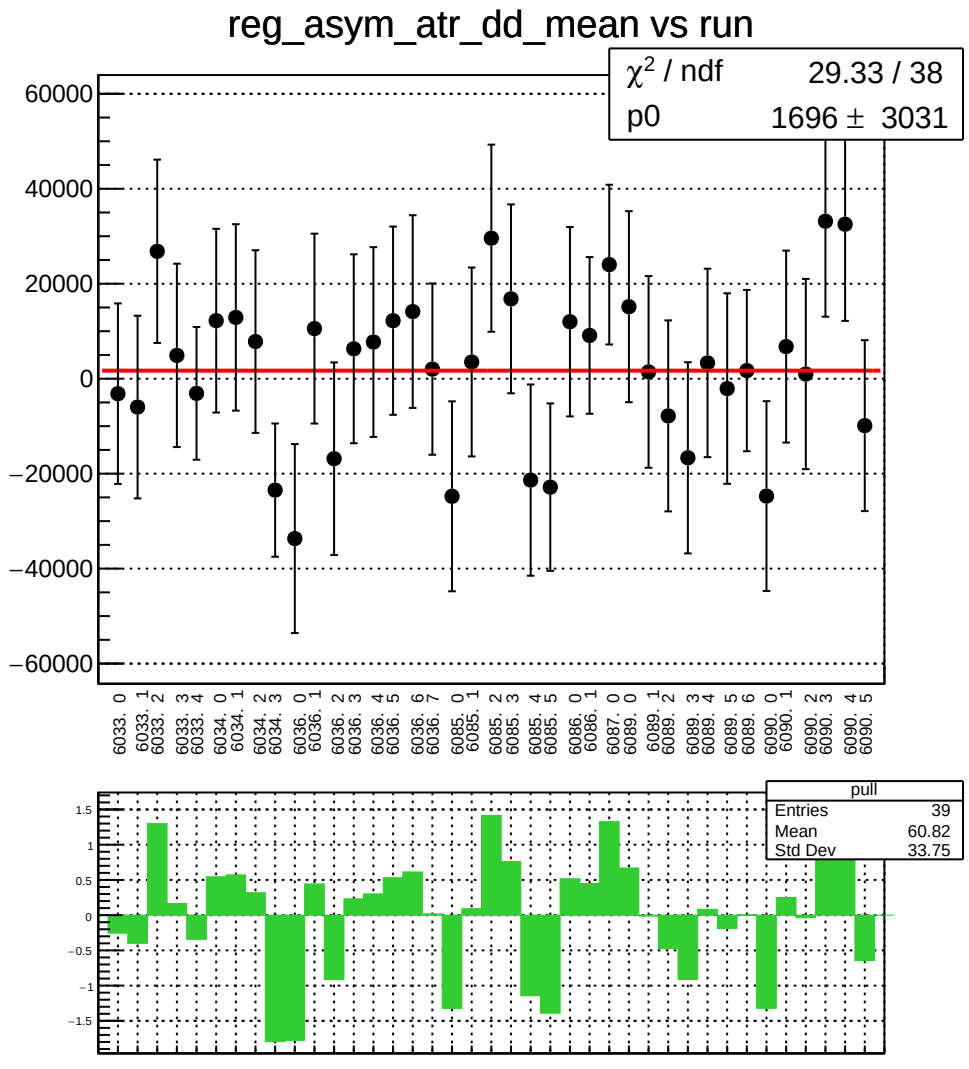

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 32.73 / 38
p0 −1640 ± 6315
150
100
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −4.124
Std Dev 10.77
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05054
Std Dev 0.9148
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

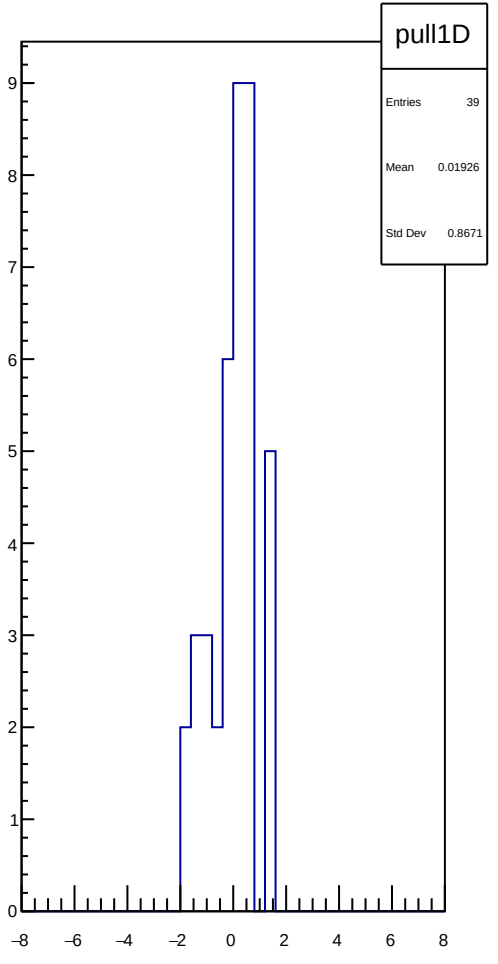

asym_atr_avg_correction_rms vs run
χ² / ndf 5939 / 38
p0 3907 ± 4.465
5000
4800
4600
4400
4200
4000
3800
3600
3400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

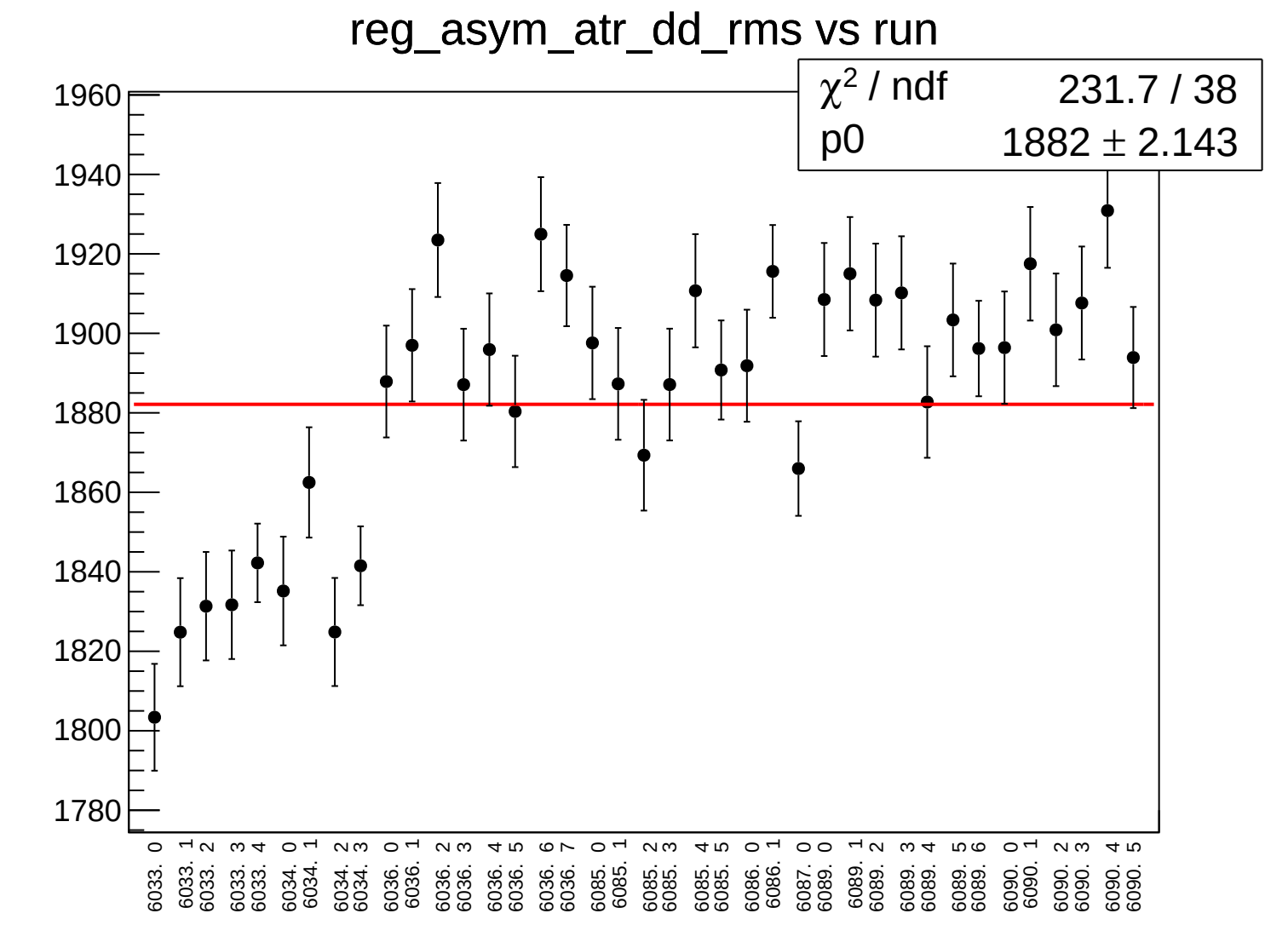

asym_atr_avg_mean vs run
×10^3
χ² / ndf 31.23 / 38
p0 −4247 ± 7036
200
150
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −4.192
Std Dev 14.49
2
1
0
−1
−2

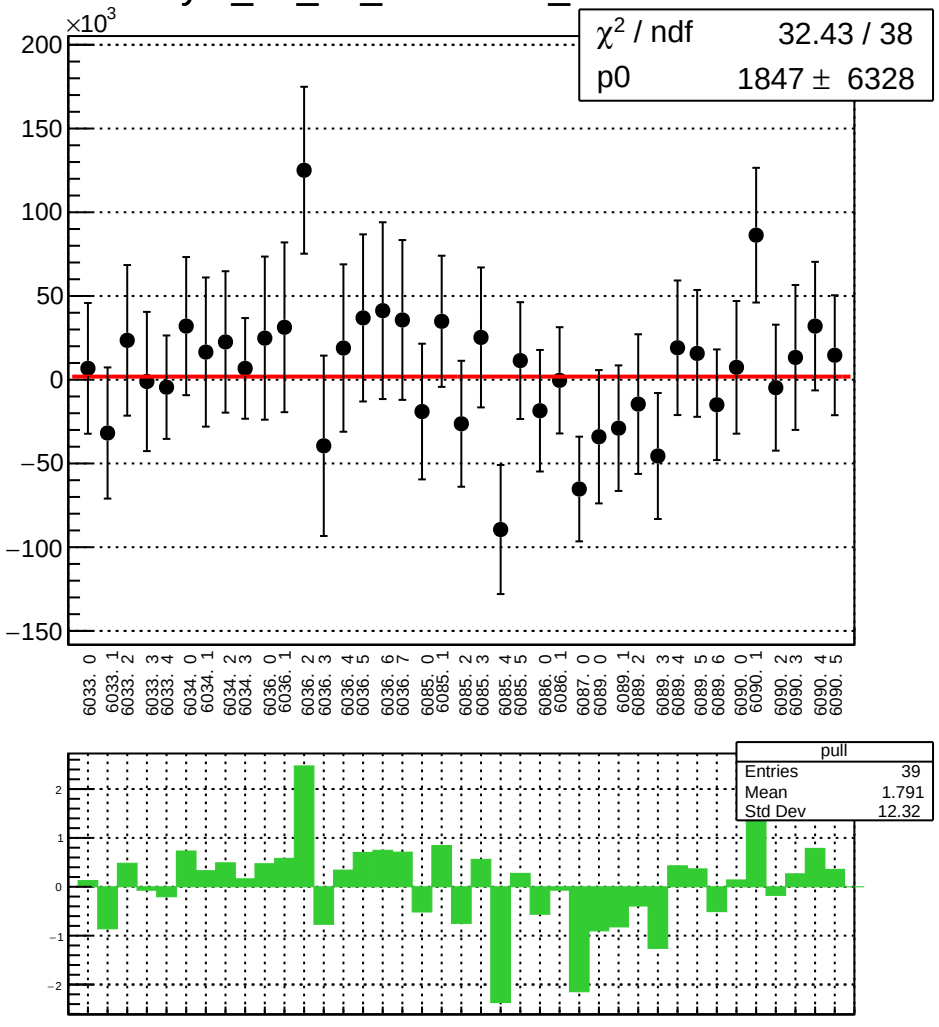

pull1D
Entries 39
Mean 0.03532
Std Dev 0.8942
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

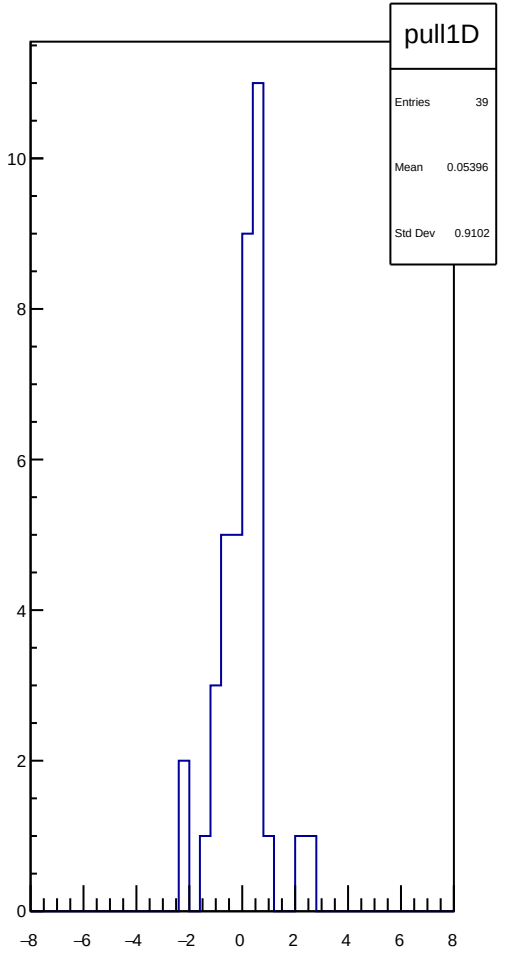

asym_atr_avg_rms vs run
χ² / ndf 4184 / 38
p0 4358 ± 4.975
5400
5200
5000
4800
4600
4400
4200
4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

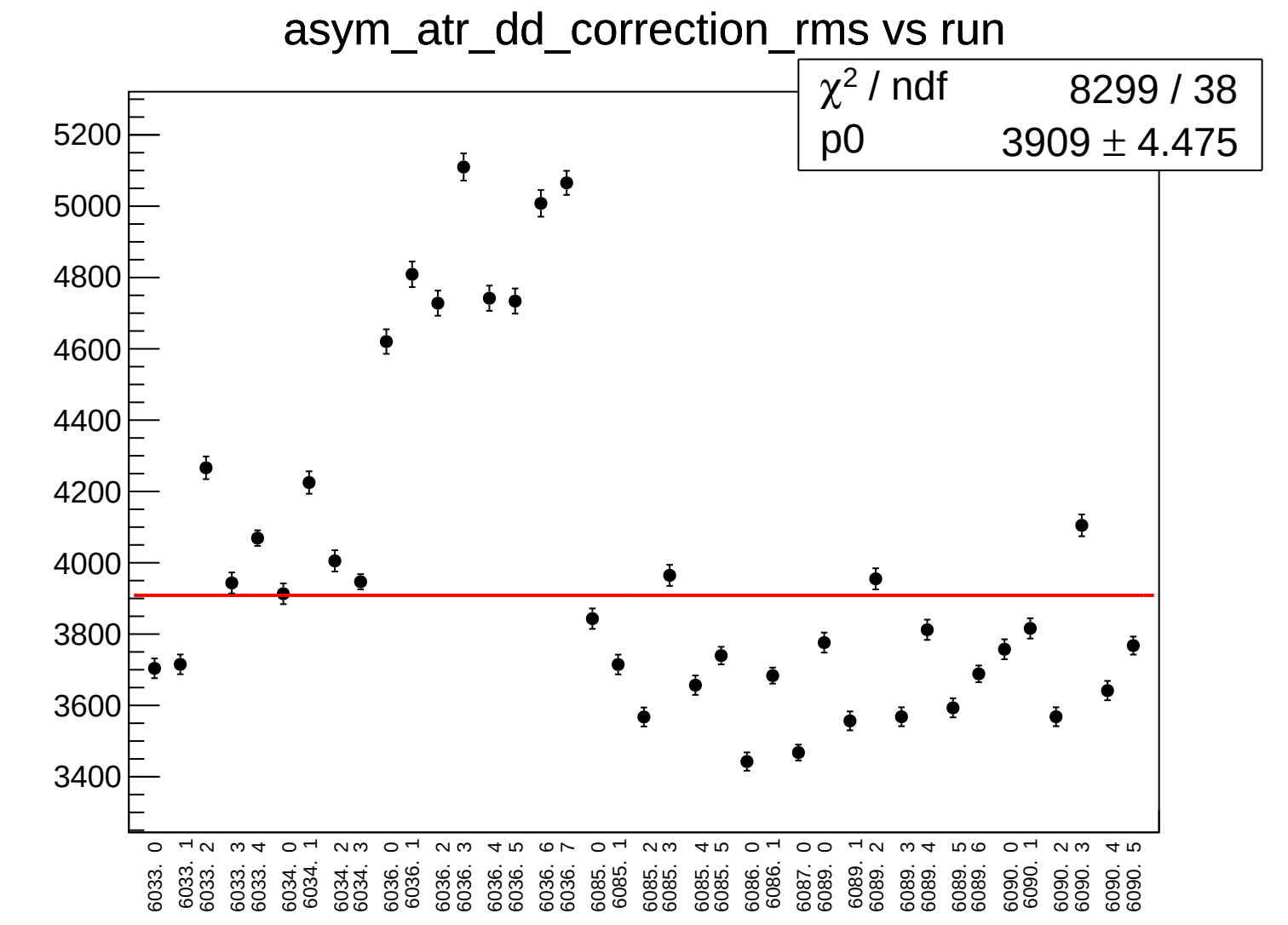

reg_asym_atr_dd_mean vs run
χ² / ndf 29.33 / 38
p0 1696 ± 3031
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 60.82
Std Dev 33.75
1.5
1
0.5
0
−0.5
−1
−1.5

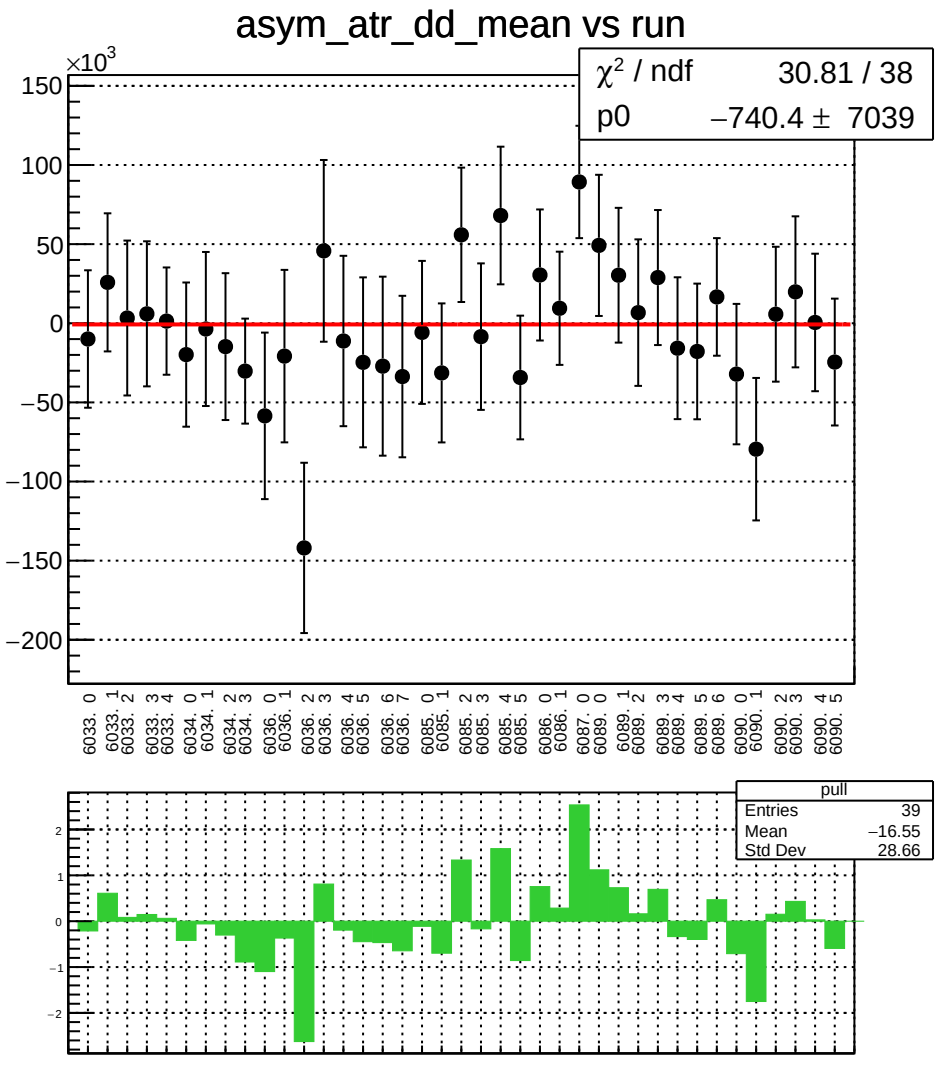

pull1D
Entries 39
Mean 0.01926
Std Dev 0.8671
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

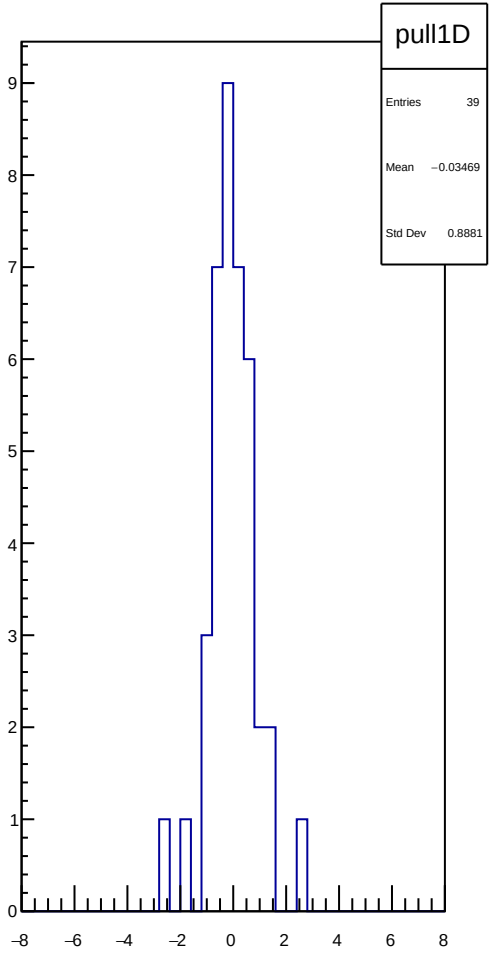

reg_asym_atr_dd_rms vs run
χ² / ndf 231.7 / 38
p0 1882 ± 2.143
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

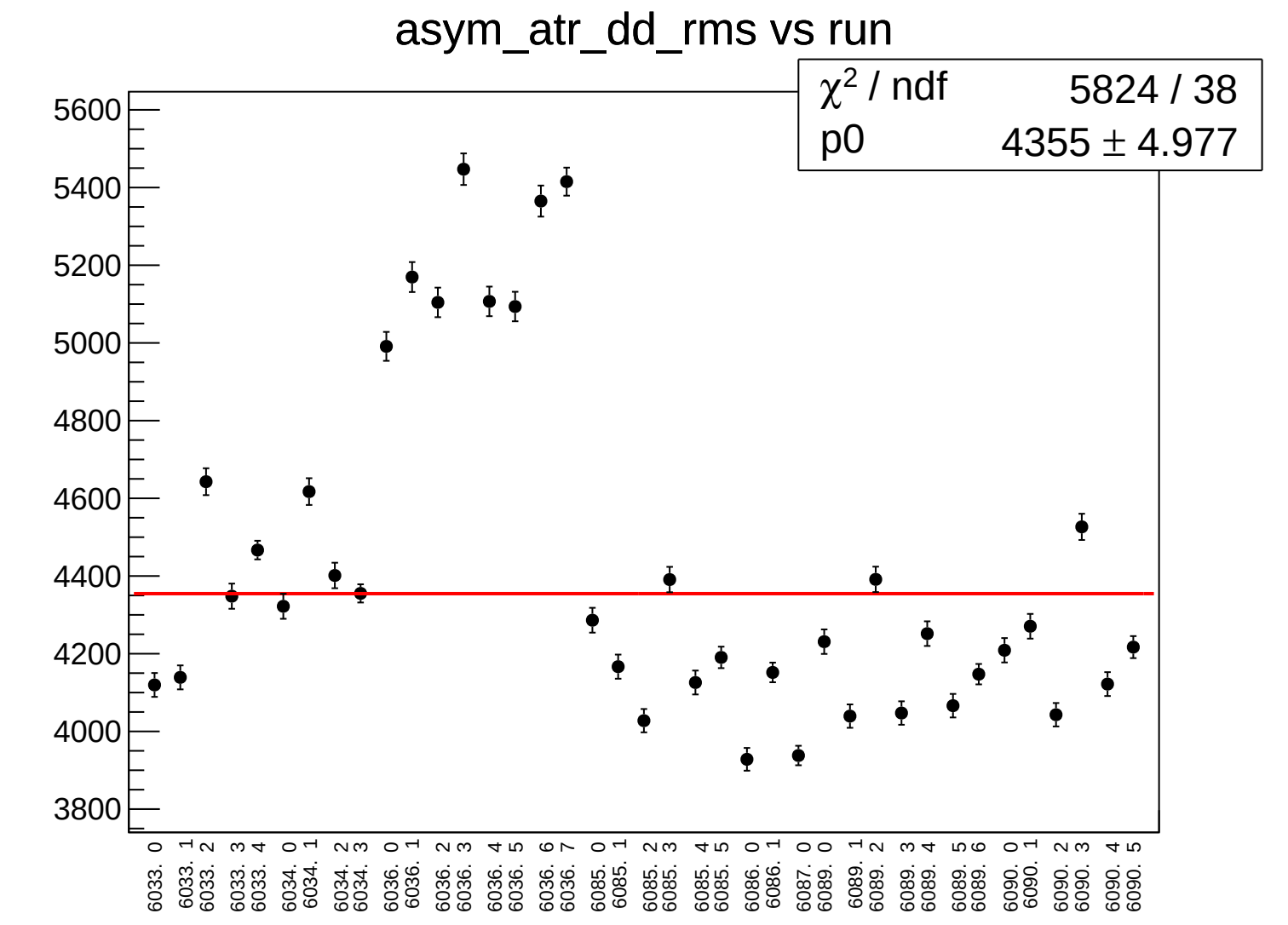

asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 32.43 / 38
p0 1847 ± 6328
200
150
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 1.791
Std Dev 12.32
2
1
0
−1
−2

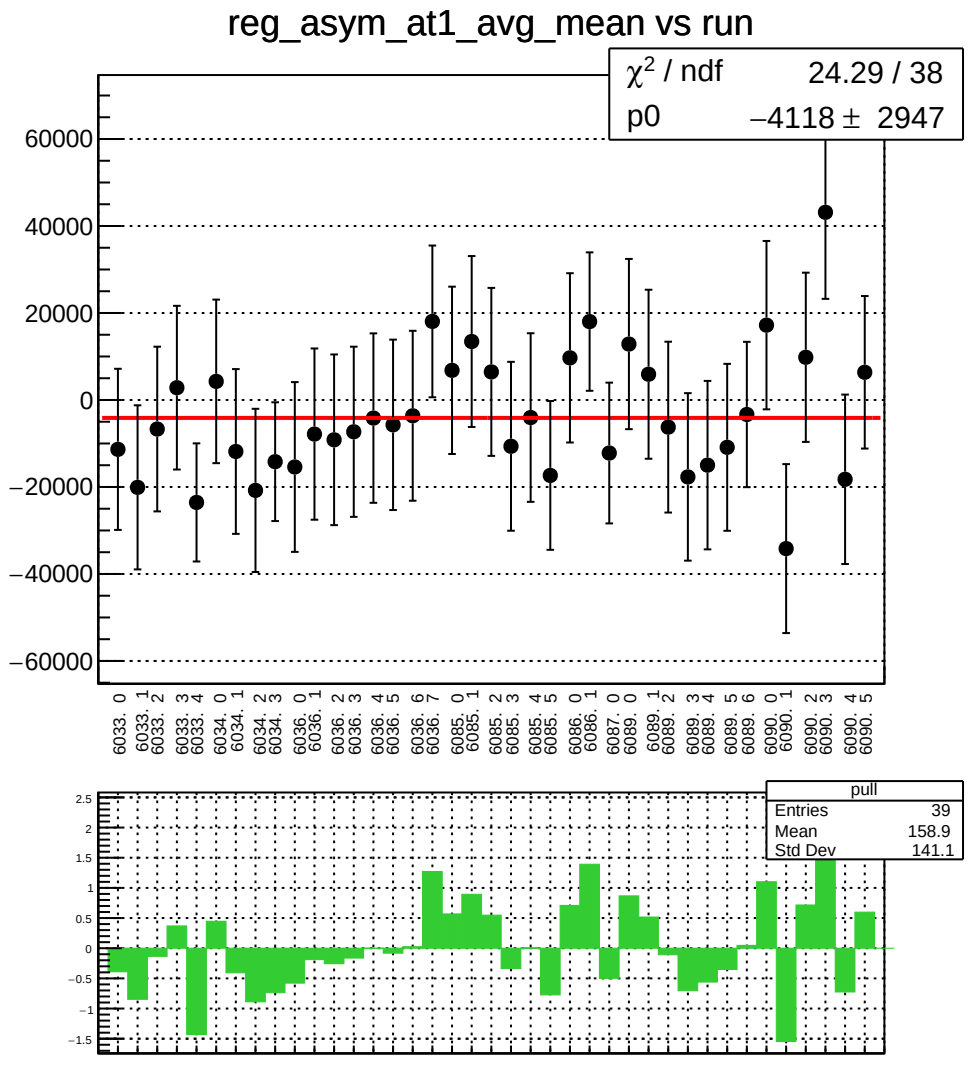

pull1D
Entries 39
Mean 0.05396
Std Dev 0.9102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

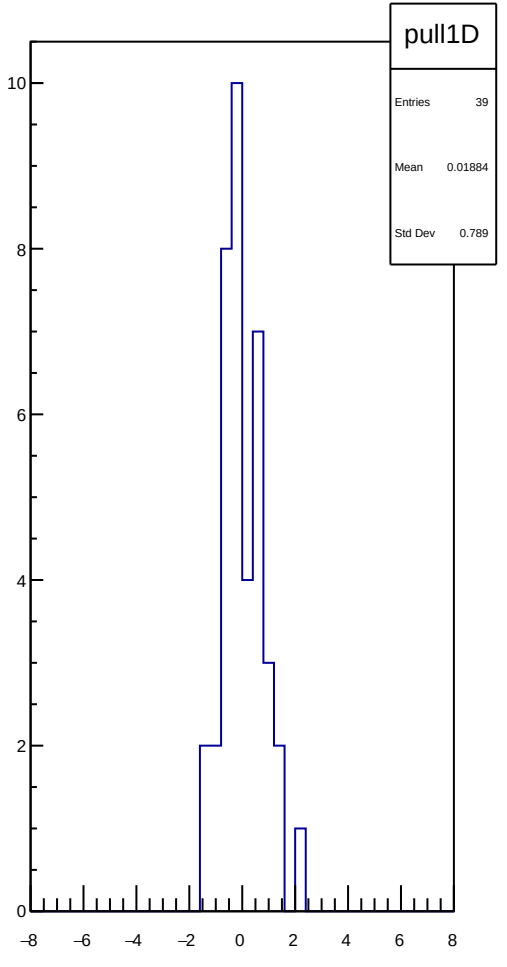

asym_atr_dd_correction_rms vs run
χ² / ndf 8299 / 38
p0 3909 ± 4.475
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

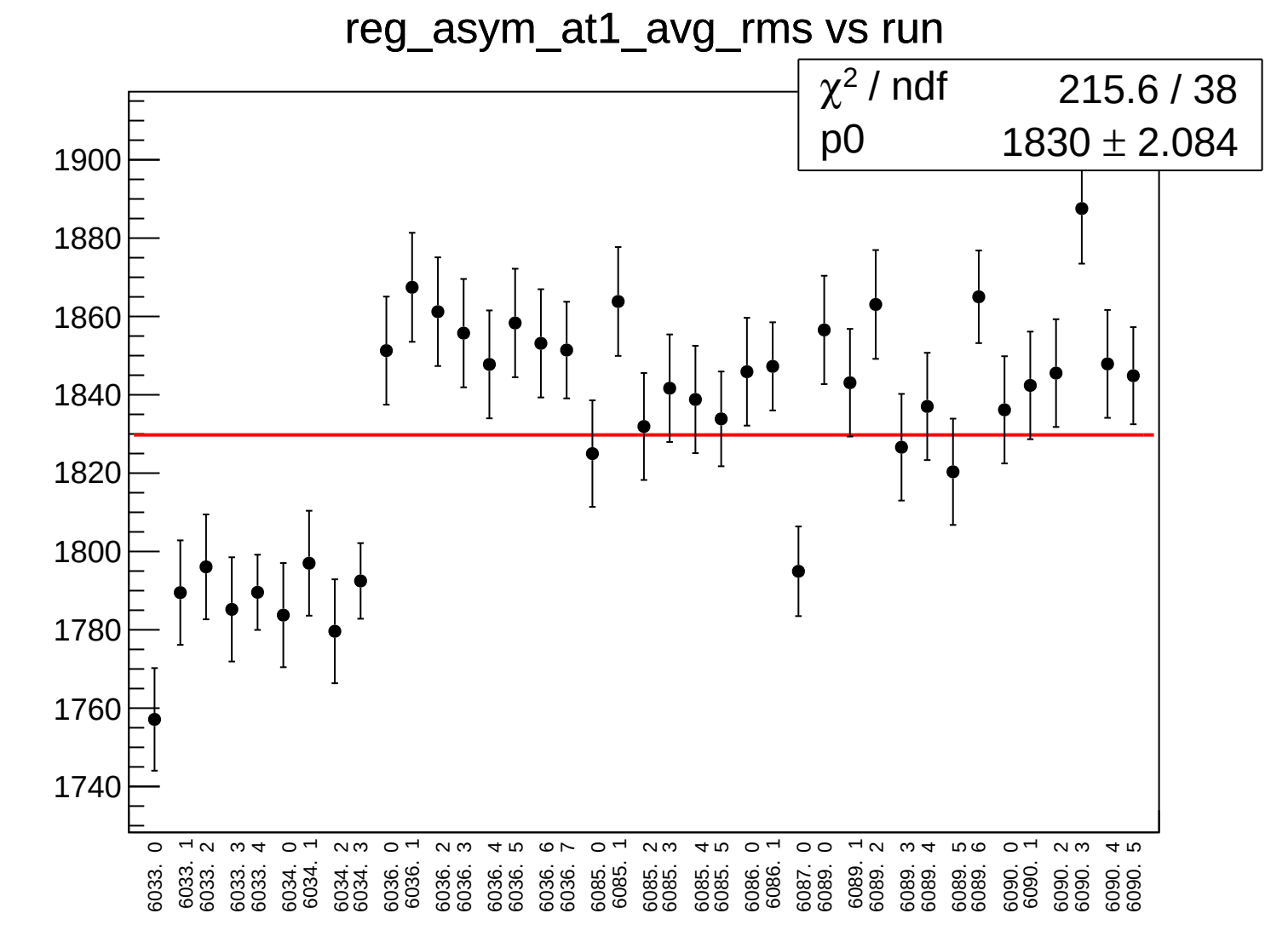

asym_atr_dd_mean vs run
×10^3
χ² / ndf 30.81 / 38
p0 −740.4 ± 7039
150
100
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −16.55
Std Dev 28.66
2
1
0
−1
−2

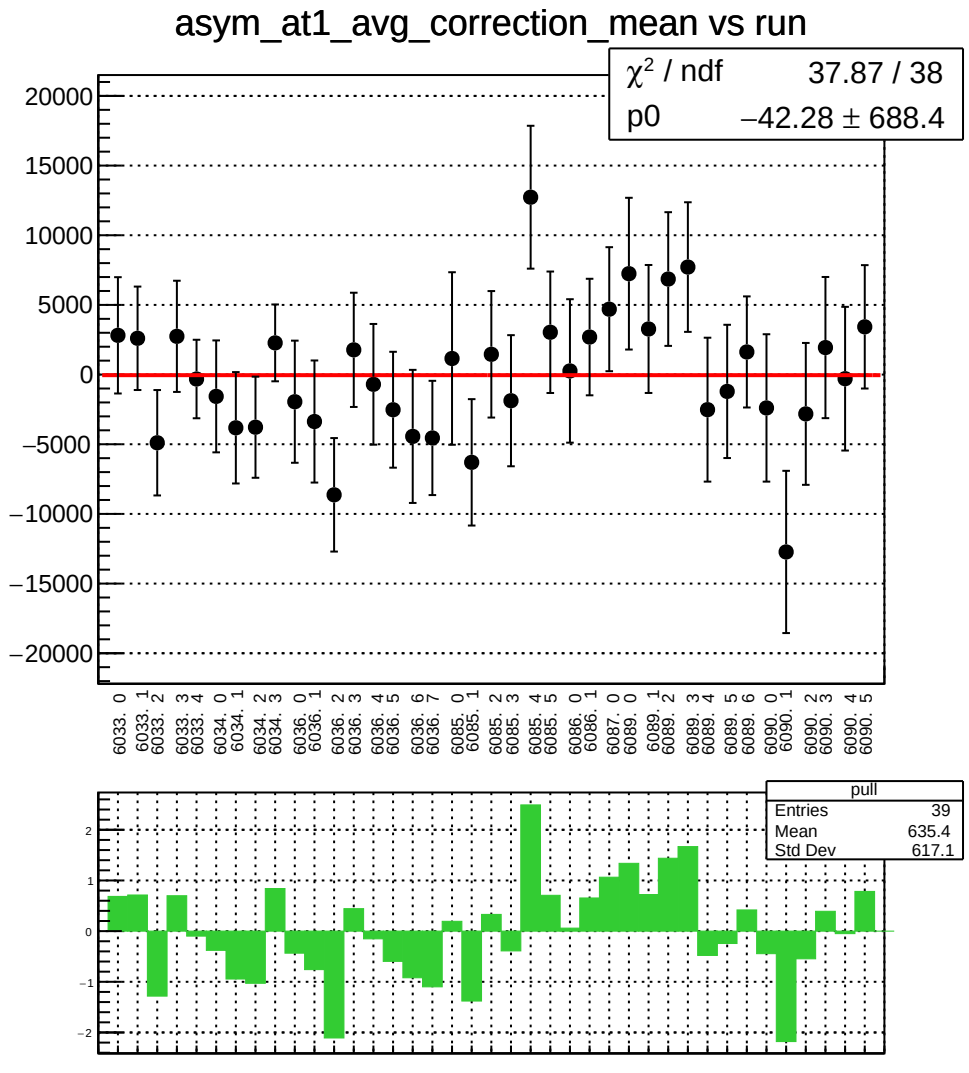

pull1D
Entries 39
Mean −0.03469
Std Dev 0.8881
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

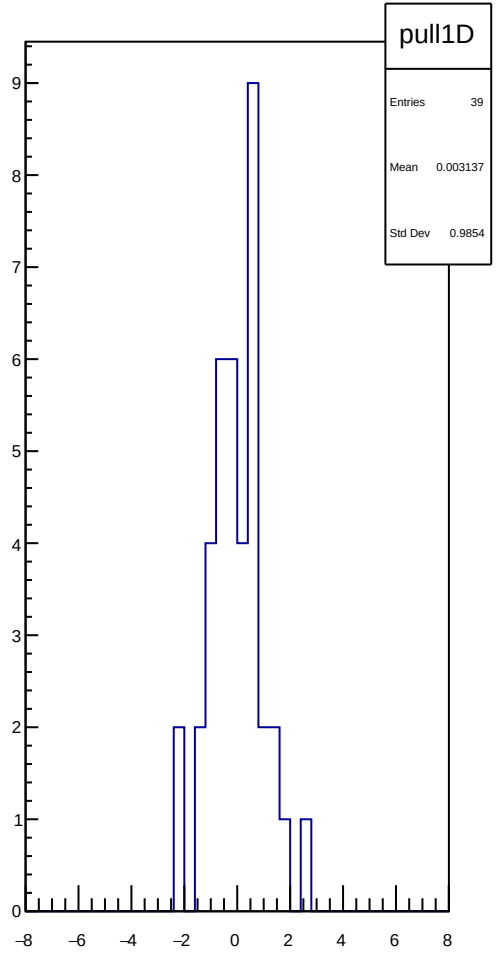

asym_atr_dd_rms vs run
χ² / ndf 5824 / 38
p0 4355 ± 4.977
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

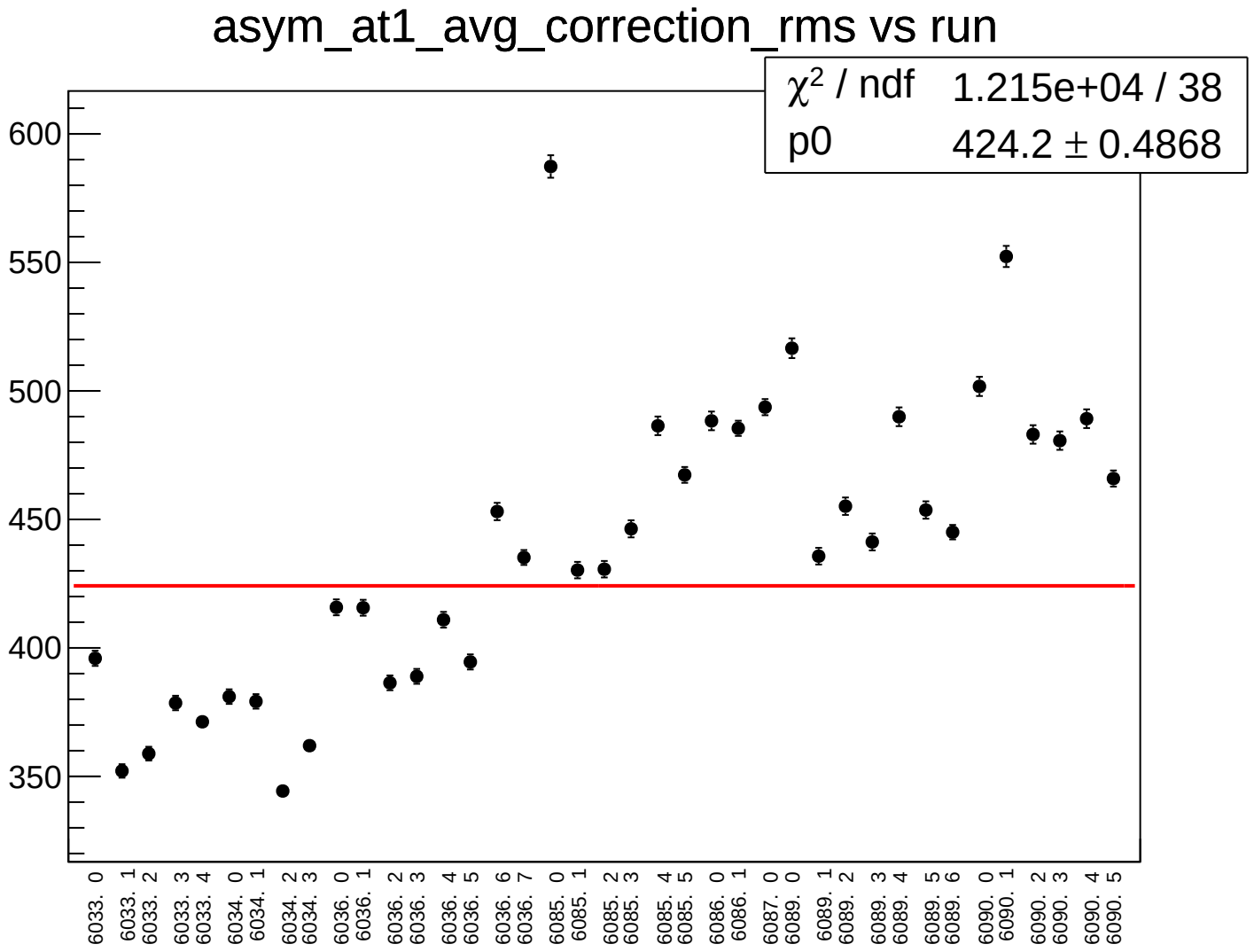

reg_asym_at1_avg_mean vs run
χ² / ndf 24.29 / 38
p0 −4118 ± 2947
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 158.9
Std Dev 141.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

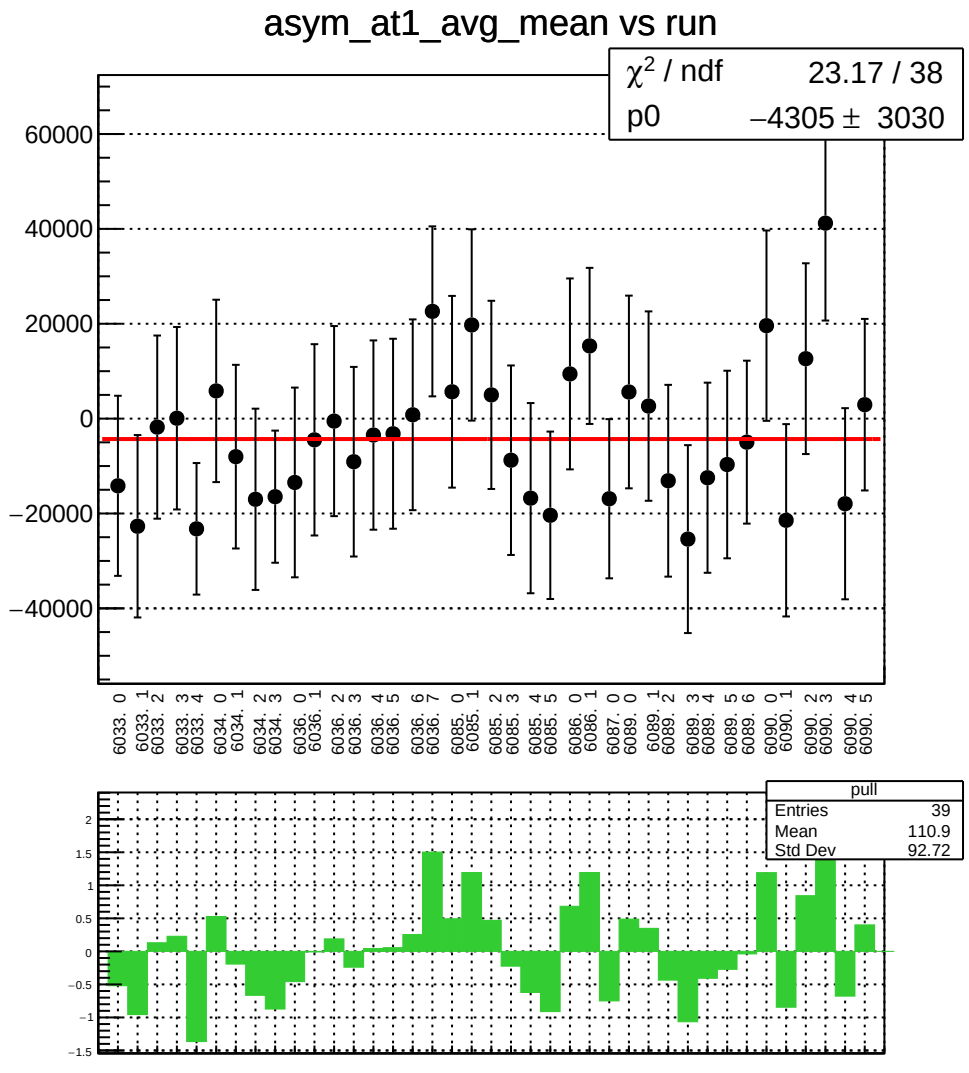

pull1D
Entries 39
Mean 0.01884
Std Dev 0.789
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

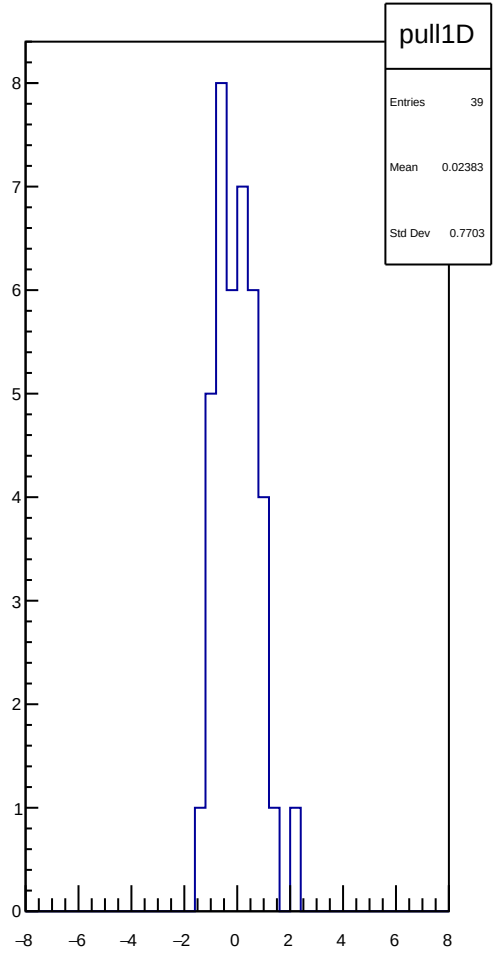

reg_asym_at1_avg_rms vs run
χ² / ndf 215.6 / 38
p0 1830 ± 2.084
1900
1880
1860
1840
1820
1800
1780
1760
1740
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

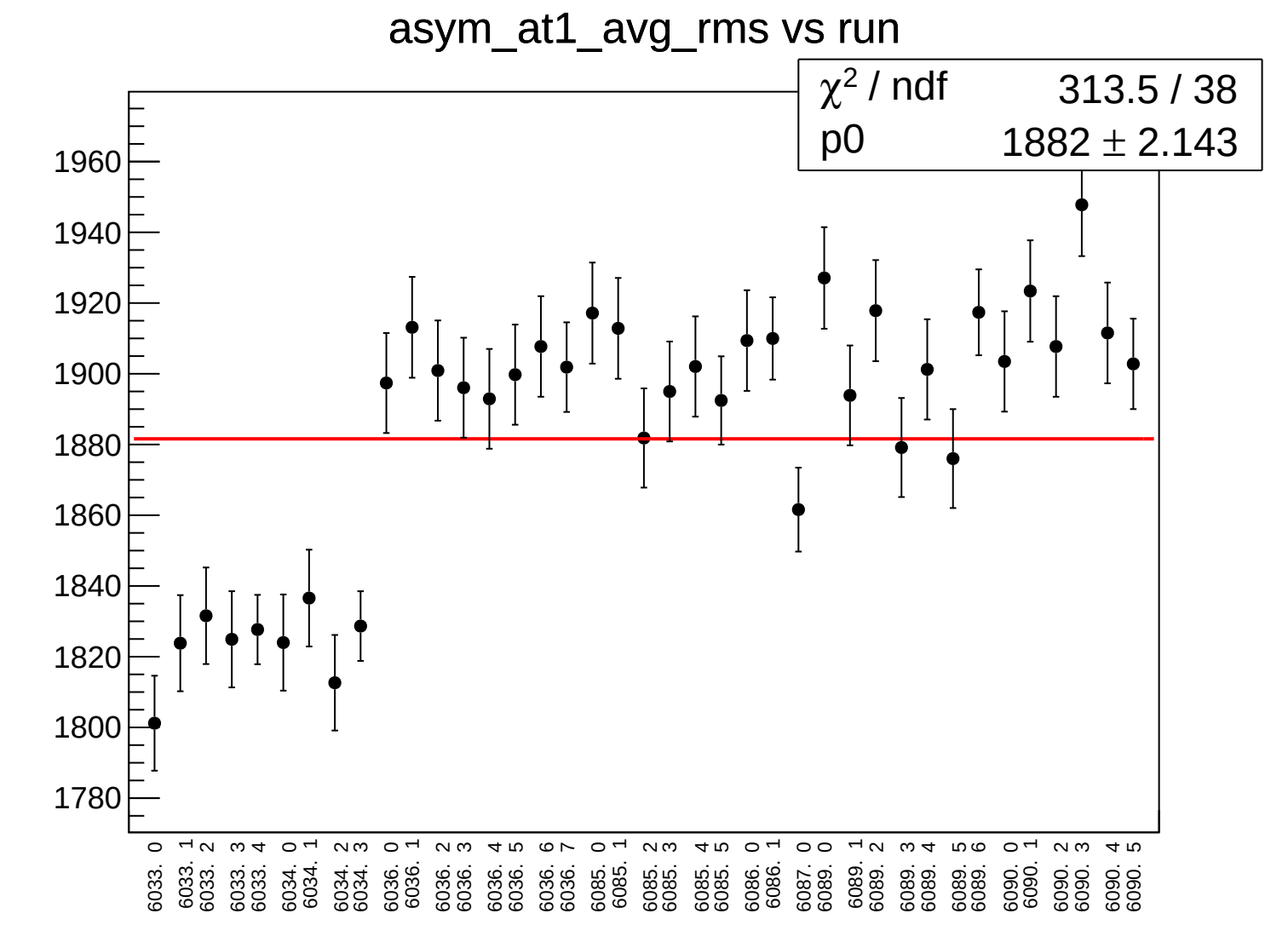

asym_at1_avg_correction_mean vs run
χ² / ndf 37.87 / 38
p0 −42.28 ± 688.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 635.4
Std Dev 617.1
2
1
0
−1
−2

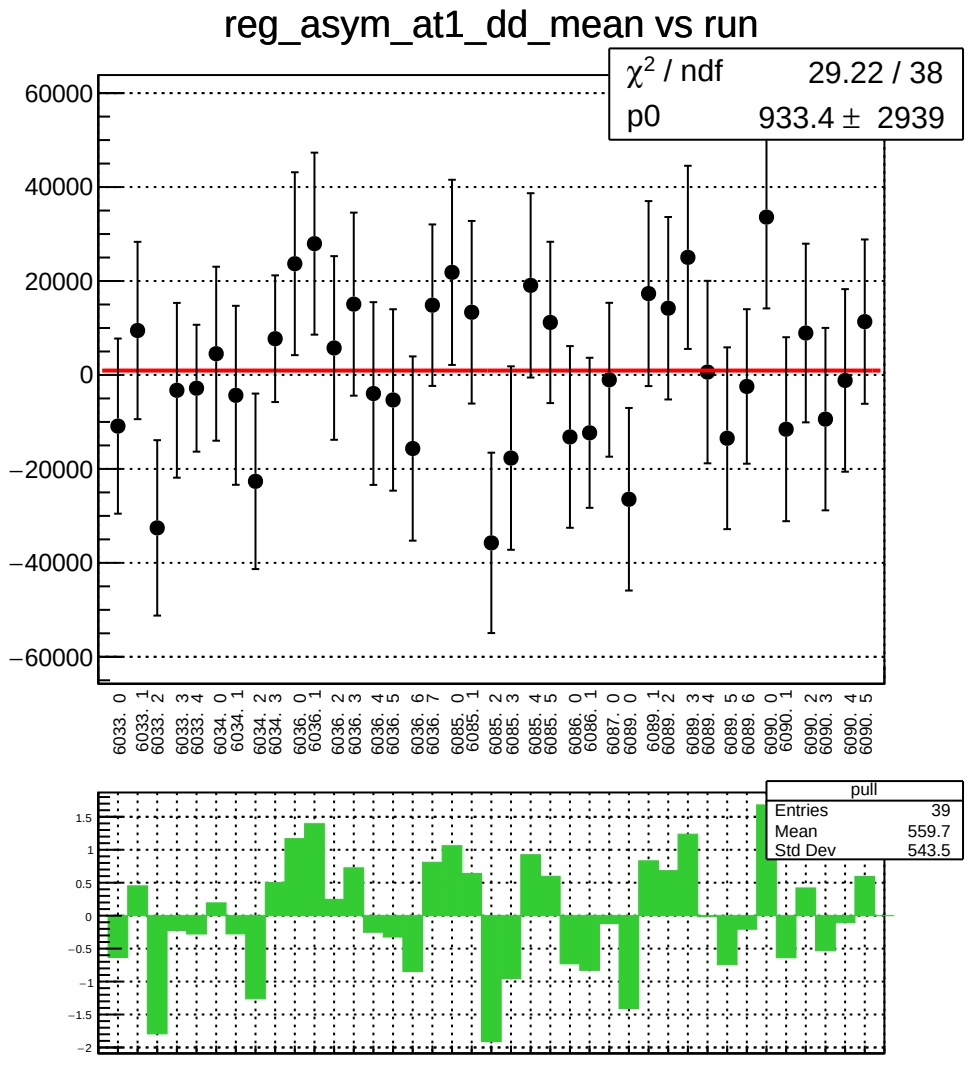

pull1D
Entries 39
Mean 0.003137
Std Dev 0.9854
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

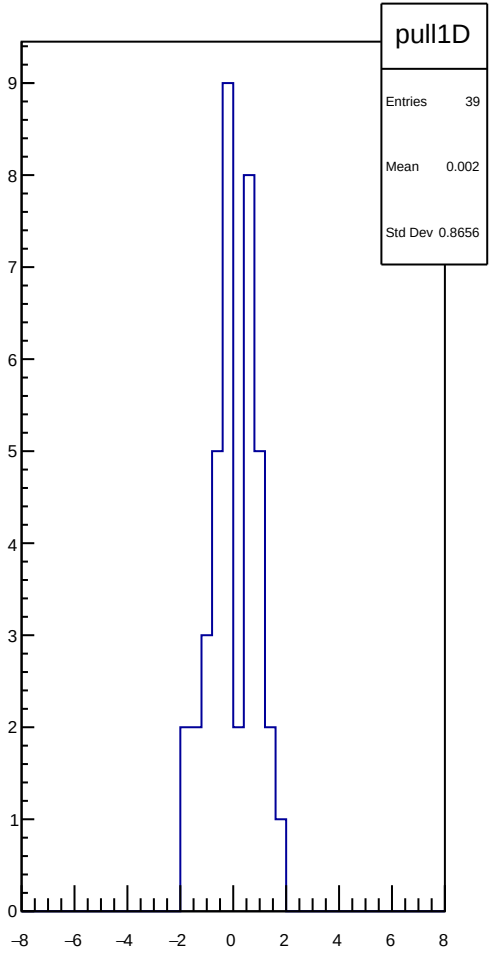

asym_at1_avg_correction_rms vs run
χ² / ndf 1.215e+04 / 38
p0 424.2 ± 0.4868
600
550
500
450
400
350
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

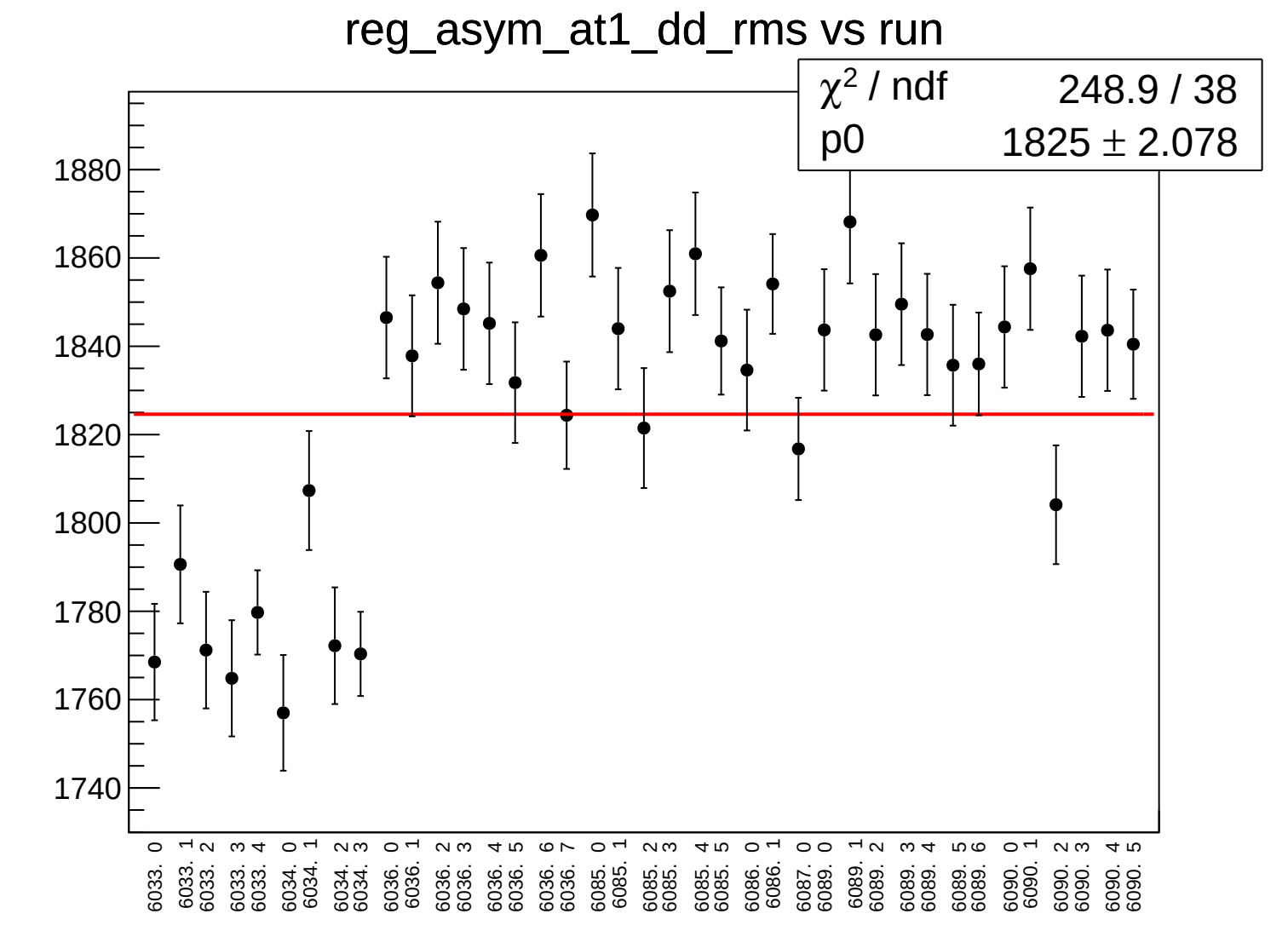

asym_at1_avg_mean vs run
χ² / ndf 23.17 / 38
p0 −4305 ± 3030
60000
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 110.9
Std Dev 92.72
2
1.5
1
0.5
0
−0.5
−1
−1.5

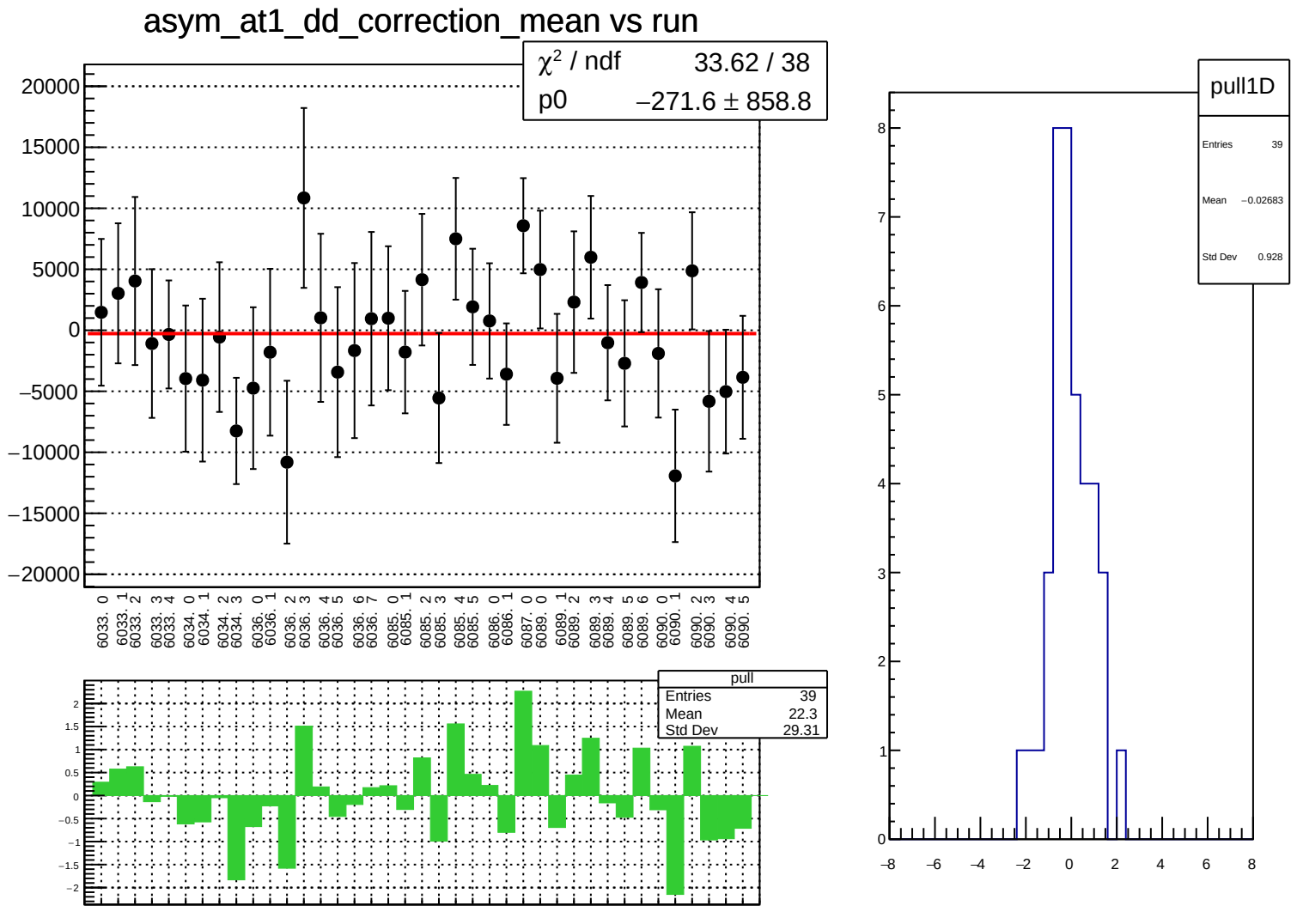

pull1D
Entries 39
Mean 0.02383
Std Dev 0.7703
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

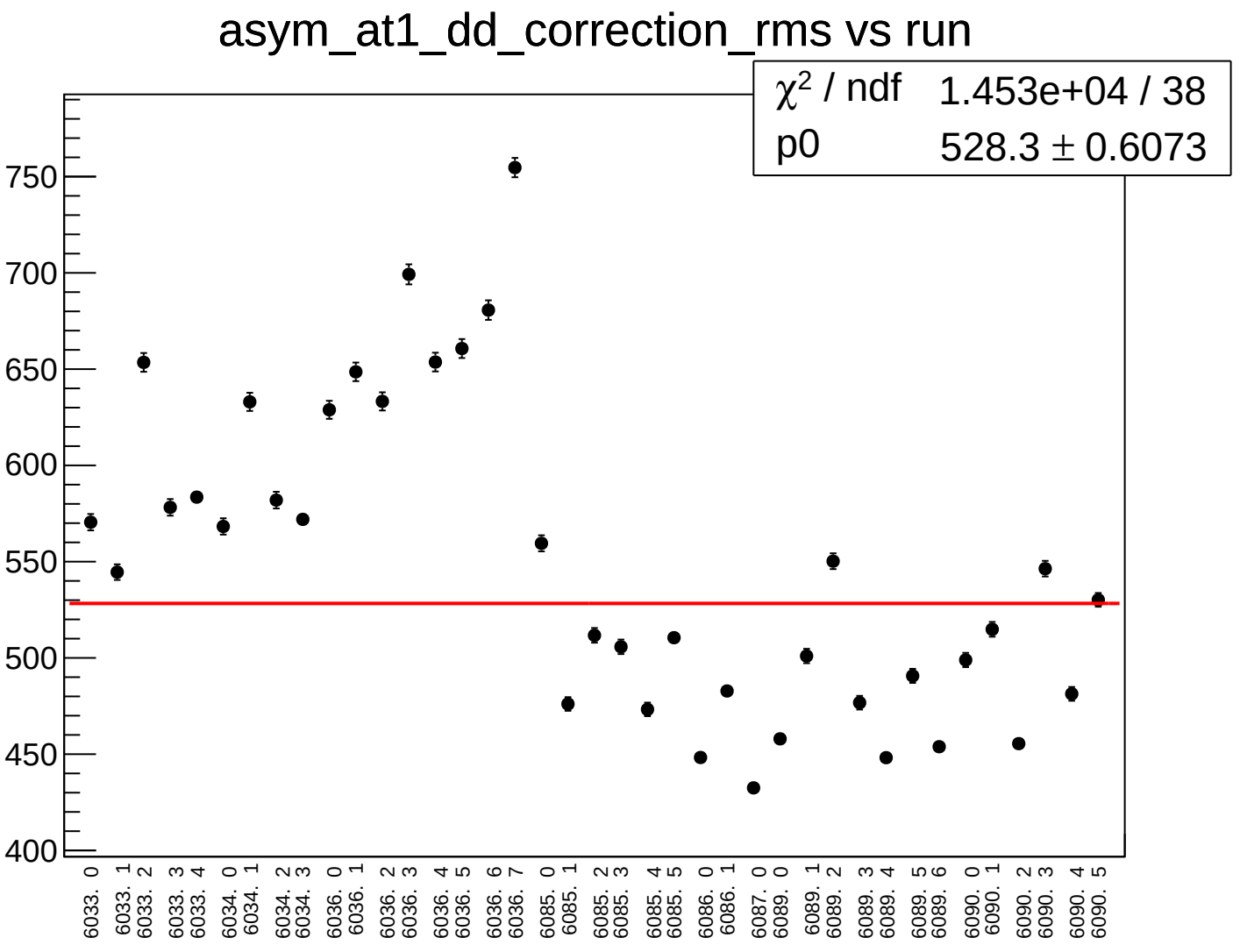

asym_at1_avg_rms vs run
χ² / ndf 313.5 / 38
p0 1882 ± 2.143
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

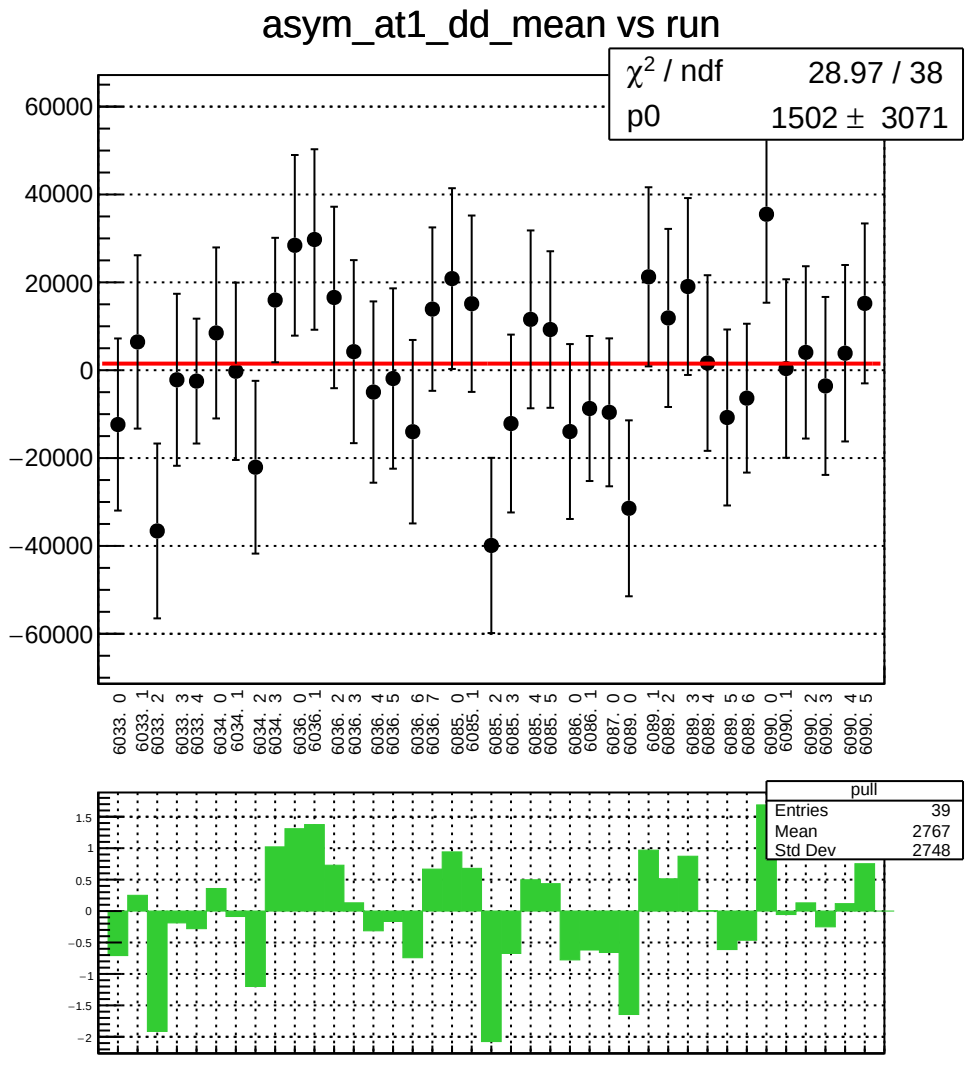

reg_asym_at1_dd_mean vs run
χ² / ndf 29.22 / 38
p0 933.4 ± 2939
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 559.7
Std Dev 543.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

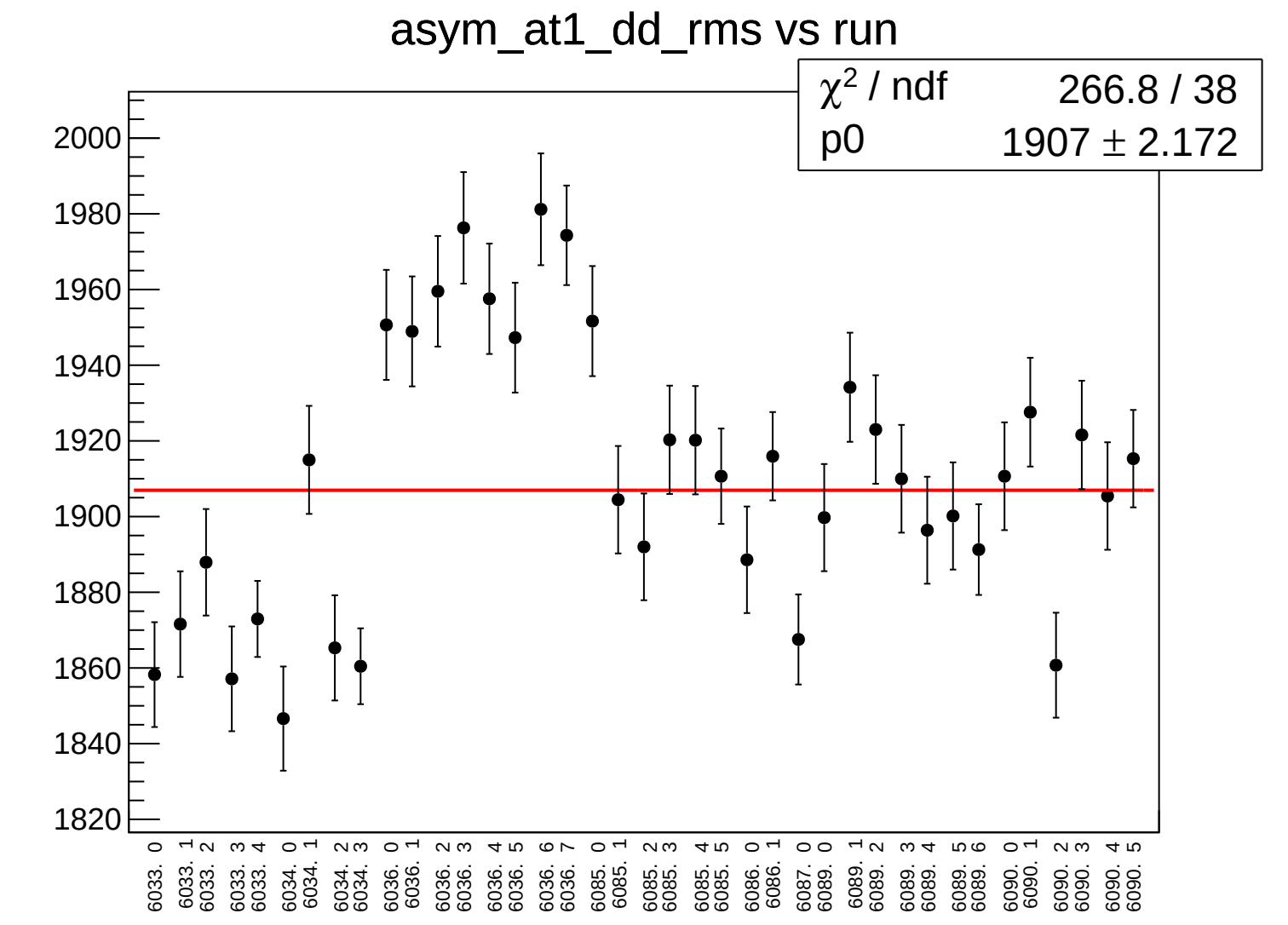

pull1D
Entries 39
Mean 0.002
Std Dev 0.8656
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

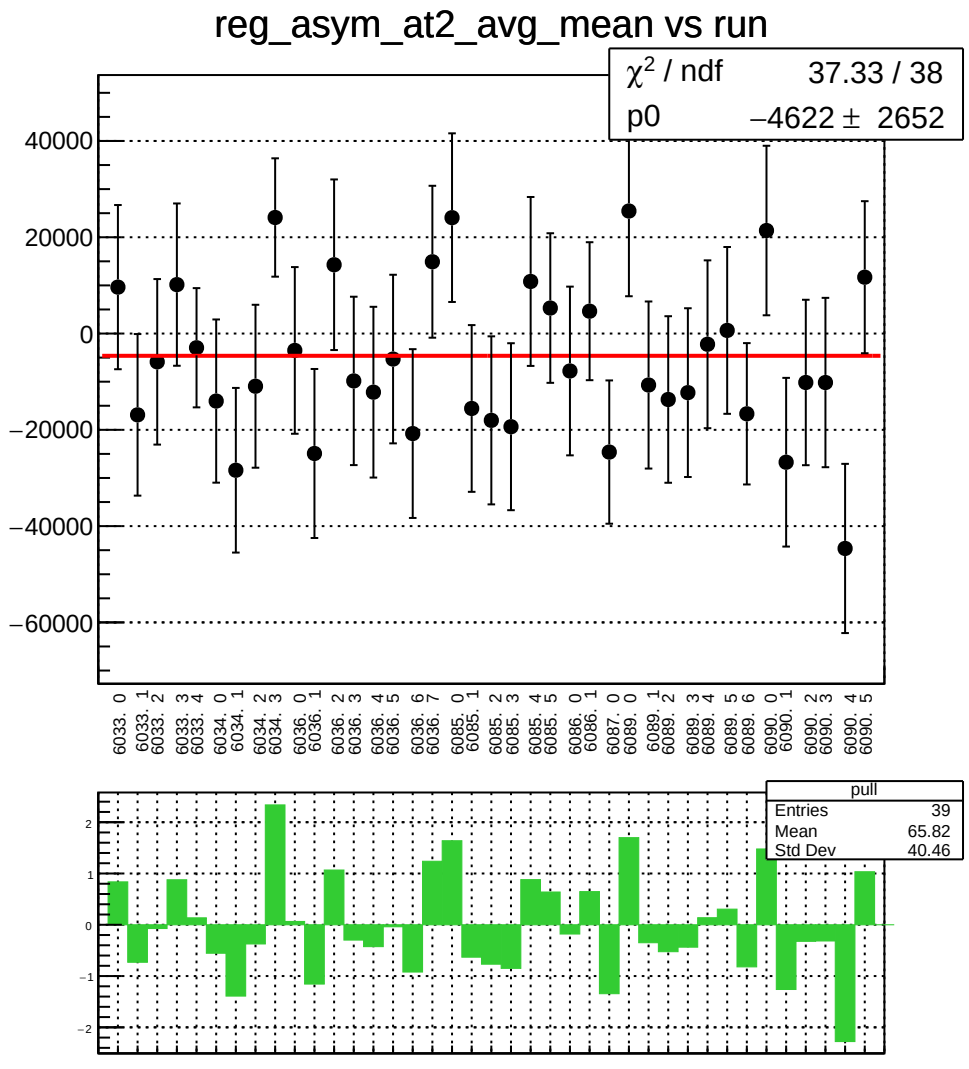

reg_asym_at1_dd_rms vs run
χ² / ndf 248.9 / 38
p0 1825 ± 2.078
1880
1860
1840
1820
1800
1780
1760
1740
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

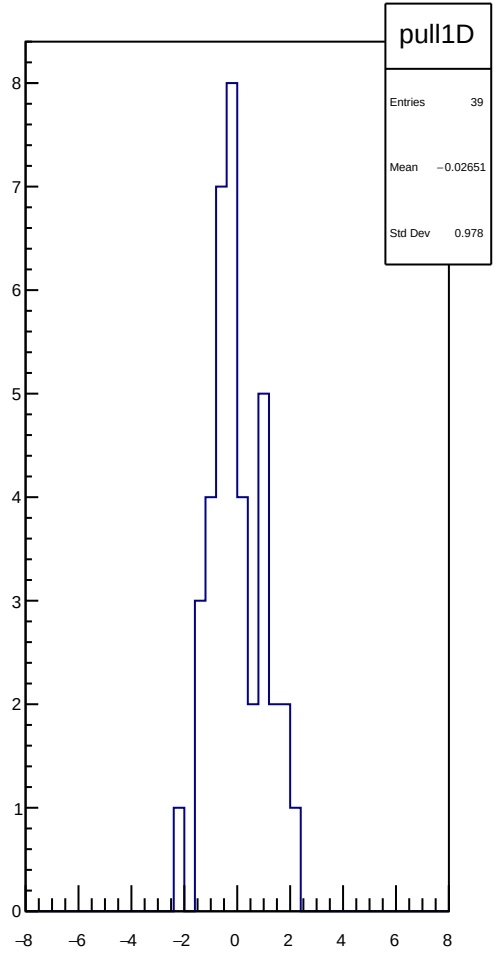

asym_at1_dd_correction_mean vs run
χ² / ndf 33.62 / 38
p0 −271.6 ± 858.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 22.3
Std Dev 29.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.02683
Std Dev 0.928
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

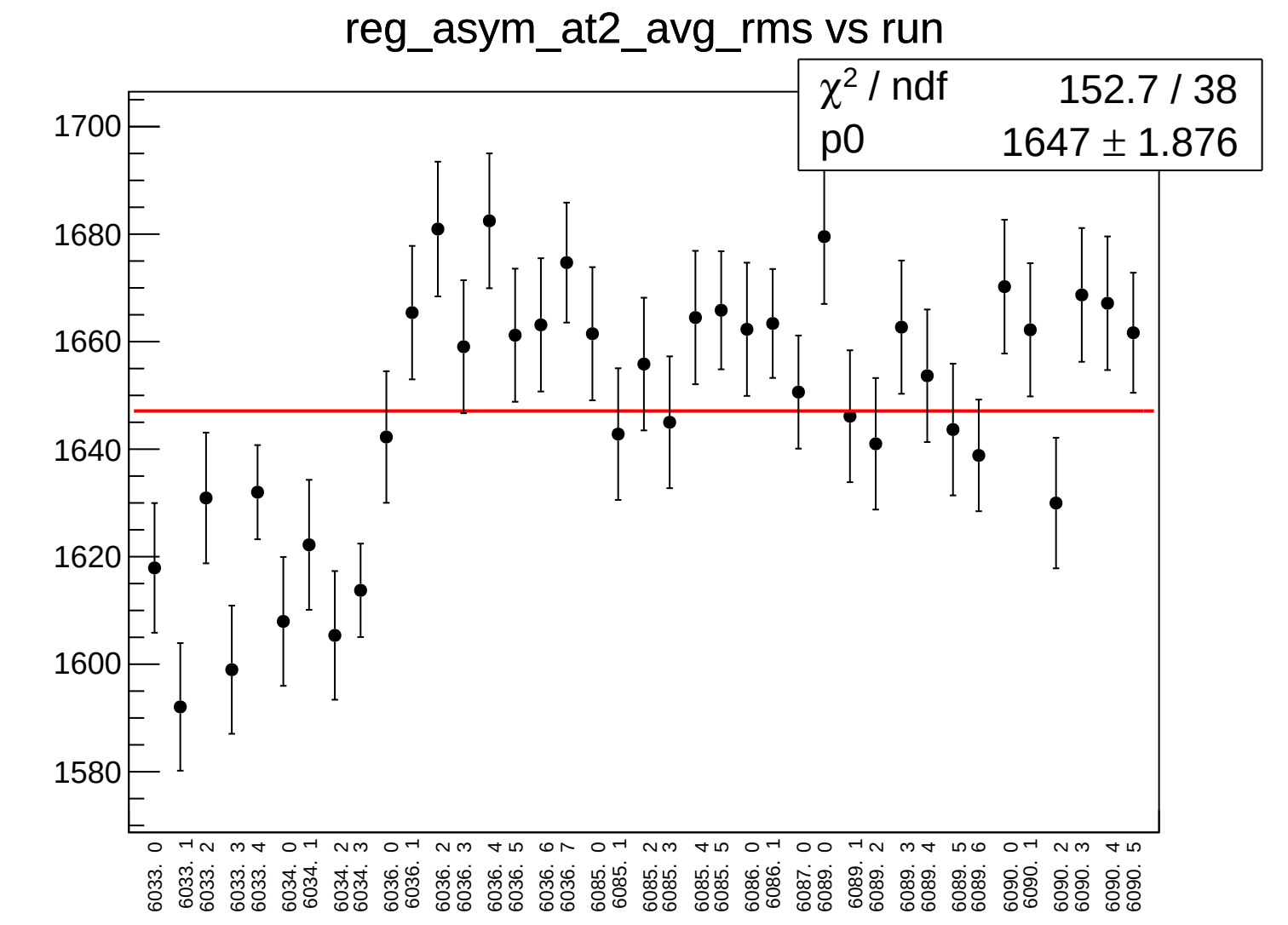

asym_at1_dd_correction_rms vs run
χ² / ndf 1.453e+04 / 38
p0 528.3 ± 0.6073
750
700
650
600
550
500
450
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

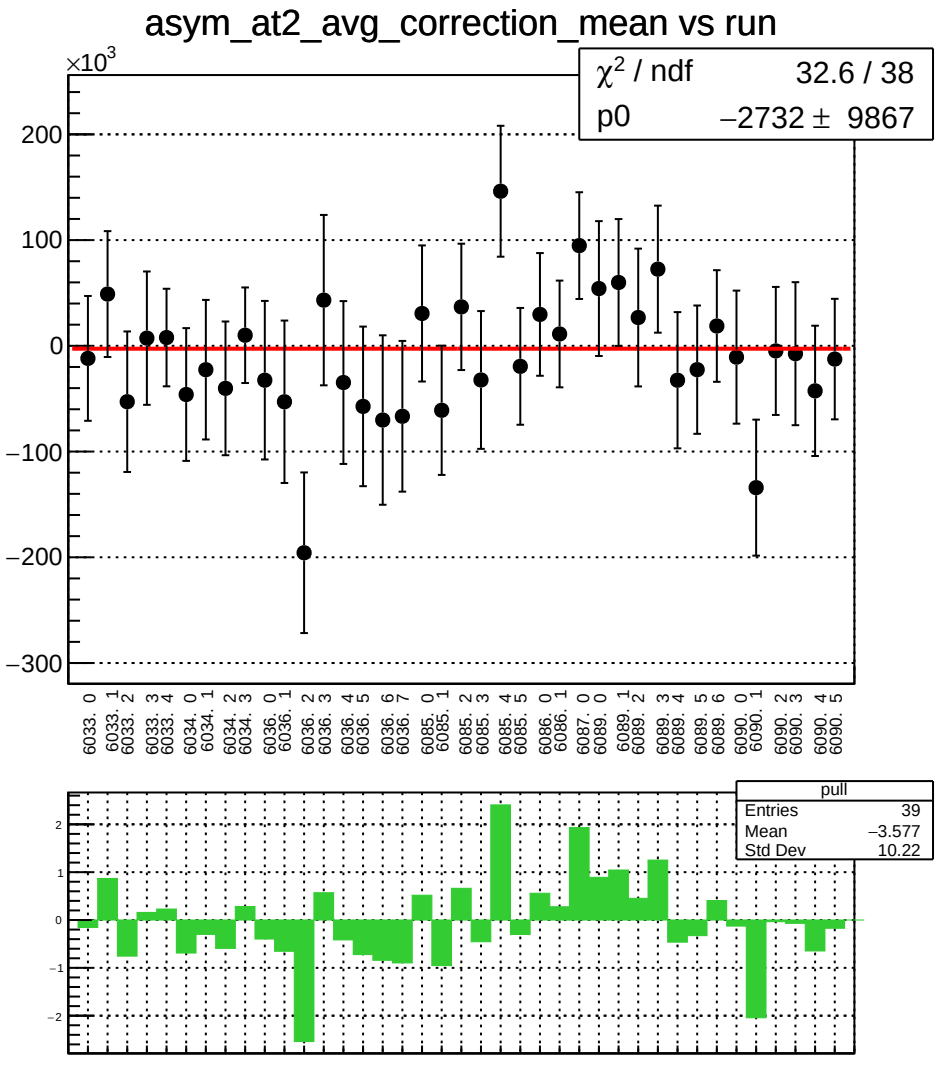

asym_at1_dd_mean vs run
χ² / ndf 28.97 / 38
p0 1502 ± 3071
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 2767
Std Dev 2748
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.0003886
Std Dev 0.8619
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

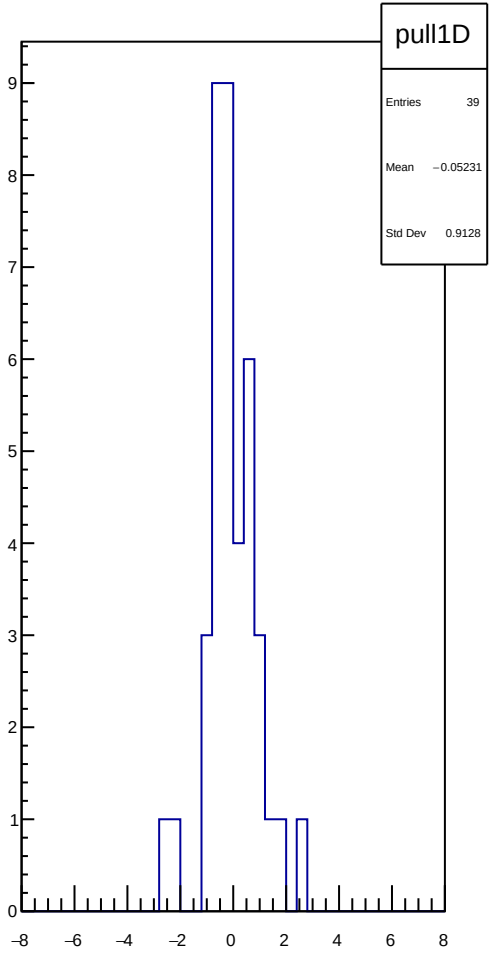

asym_at1_dd_rms vs run
χ² / ndf 266.8 / 38
p0 1907 ± 2.172
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

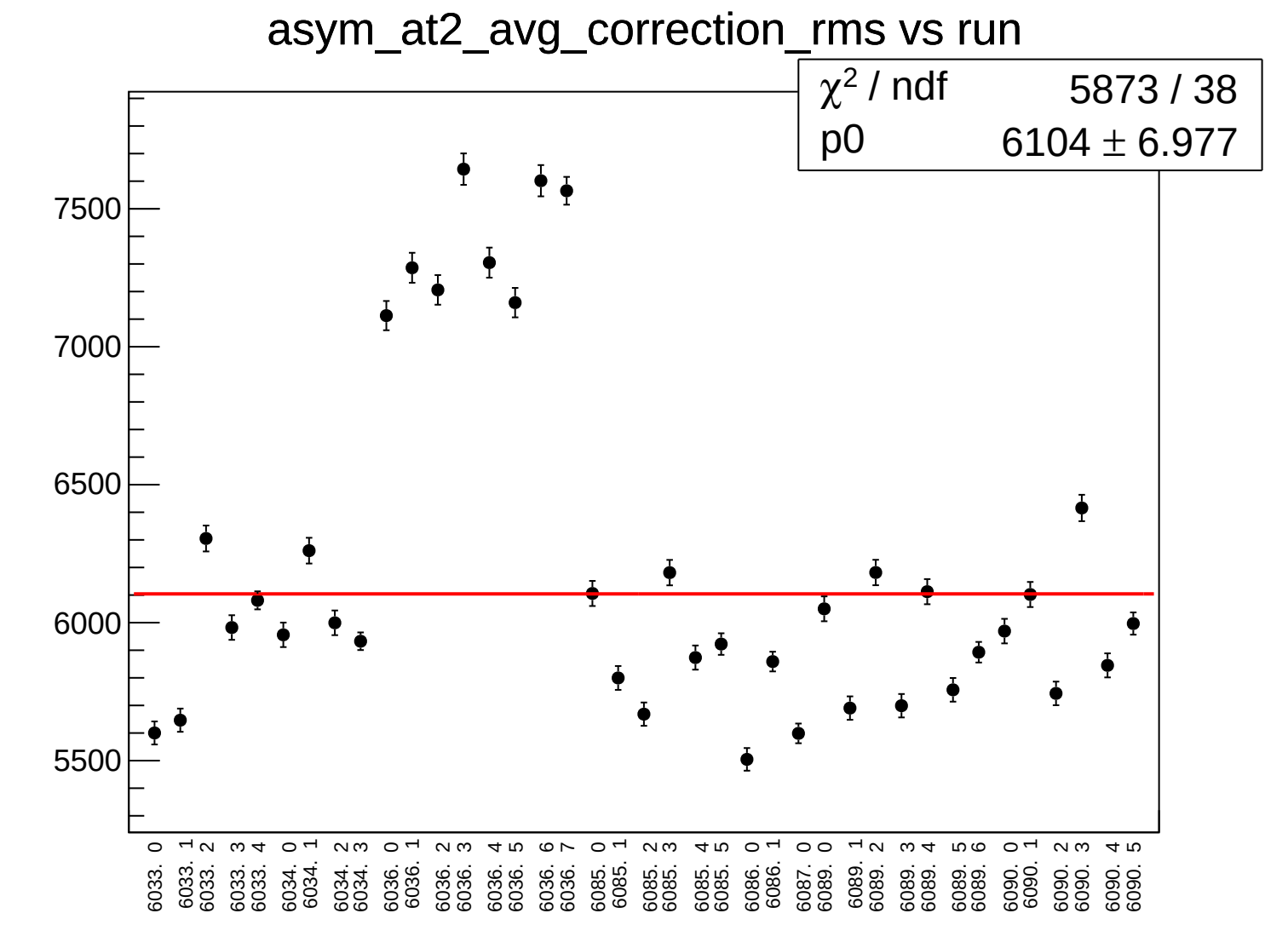

reg_asym_at2_avg_mean vs run
χ² / ndf 37.33 / 38
p0 −4622 ± 2652
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 65.82
Std Dev 40.46
2
1
0
−1
−2

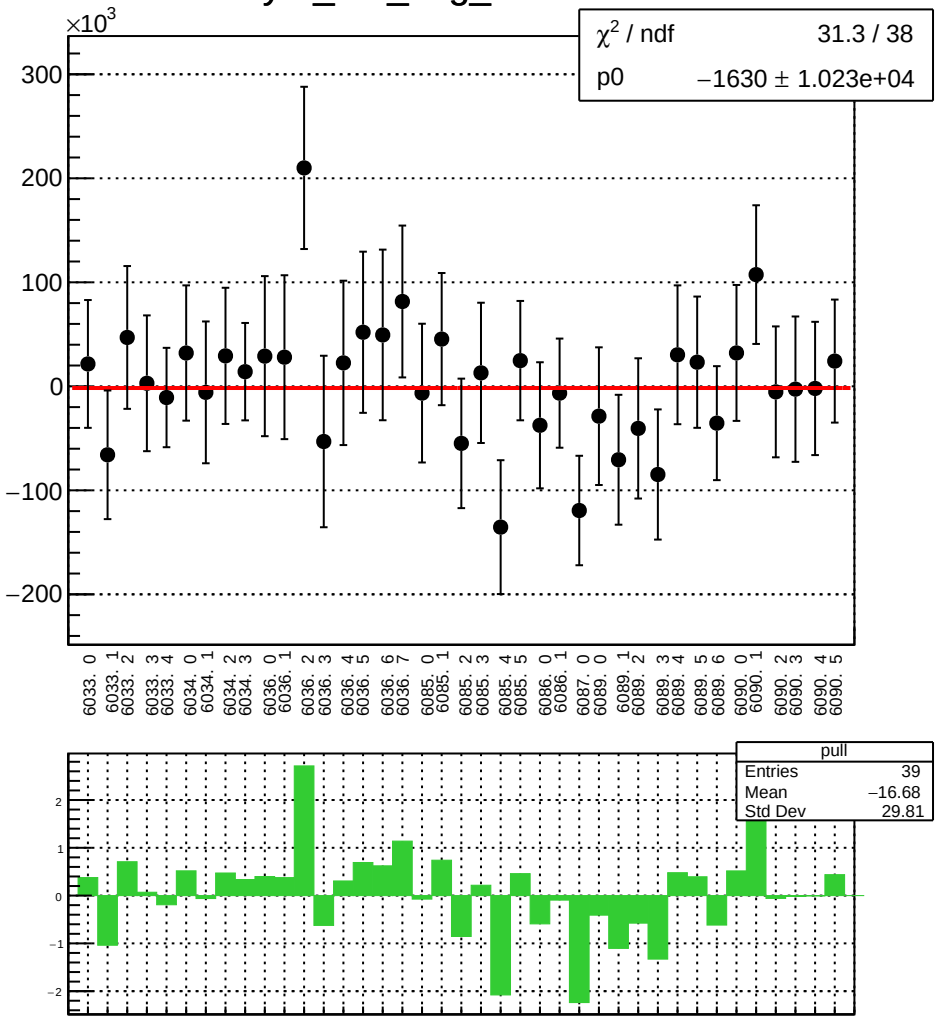

pull1D
Entries 39
Mean −0.02651
Std Dev 0.978
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

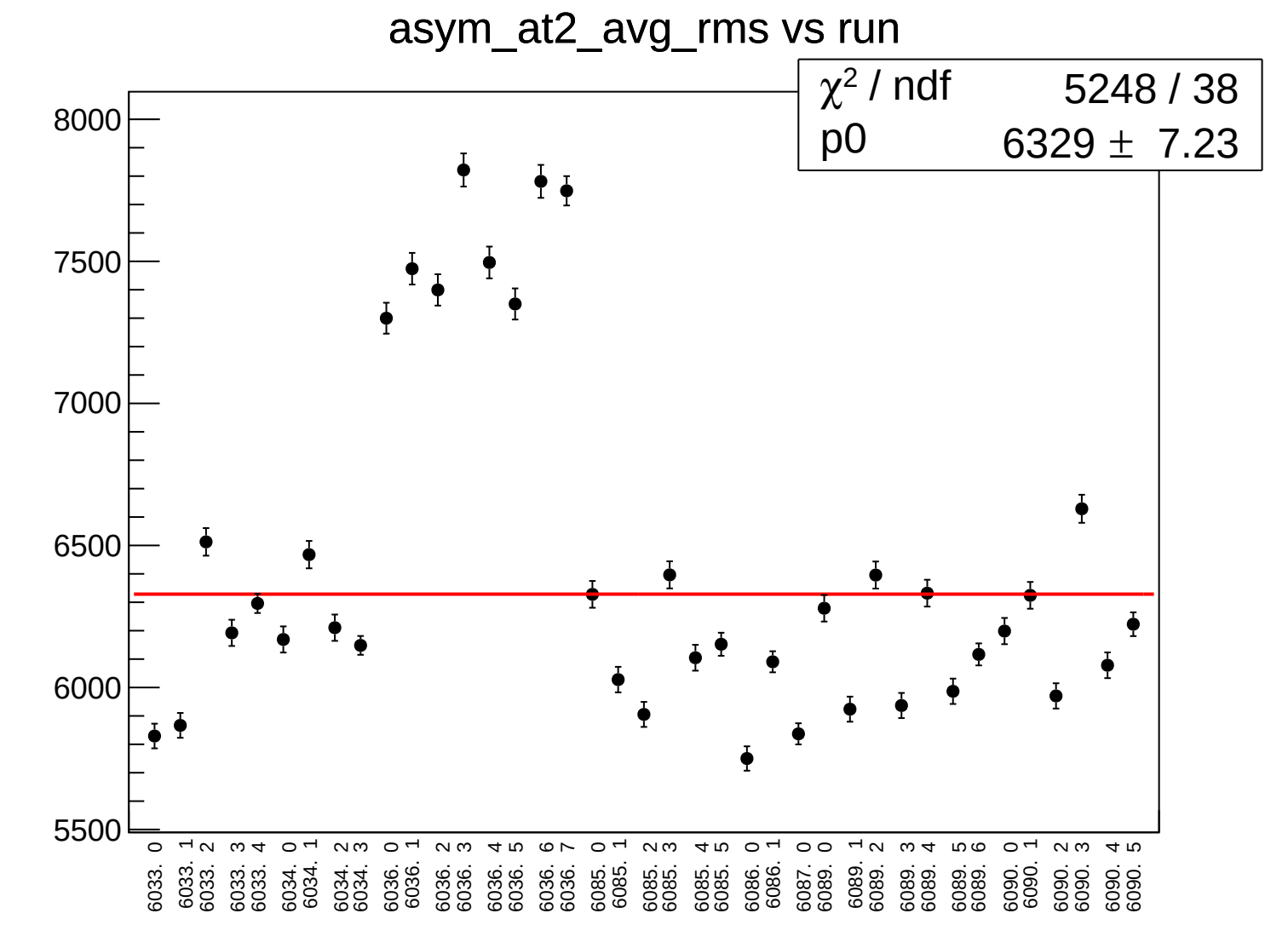

reg_asym_at2_avg_rms vs run
χ² / ndf 152.7 / 38
p0 1647 ± 1.876
1700
1680
1660
1640
1620
1600
1580
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

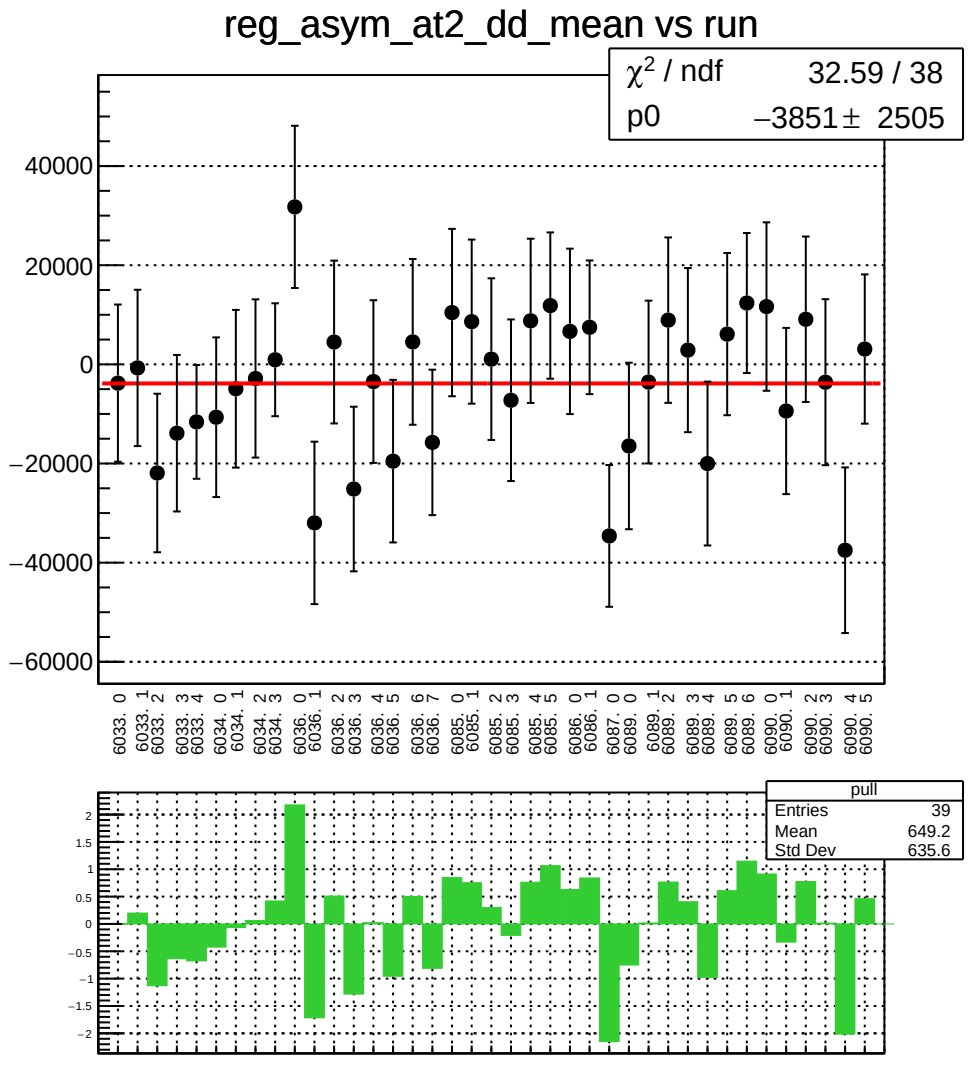

asym_at2_avg_correction_mean vs run
χ² / ndf 32.6 / 38
p0 −2732 ± 9867
pull
Entries 39
Mean −3.577
Std Dev 10.22

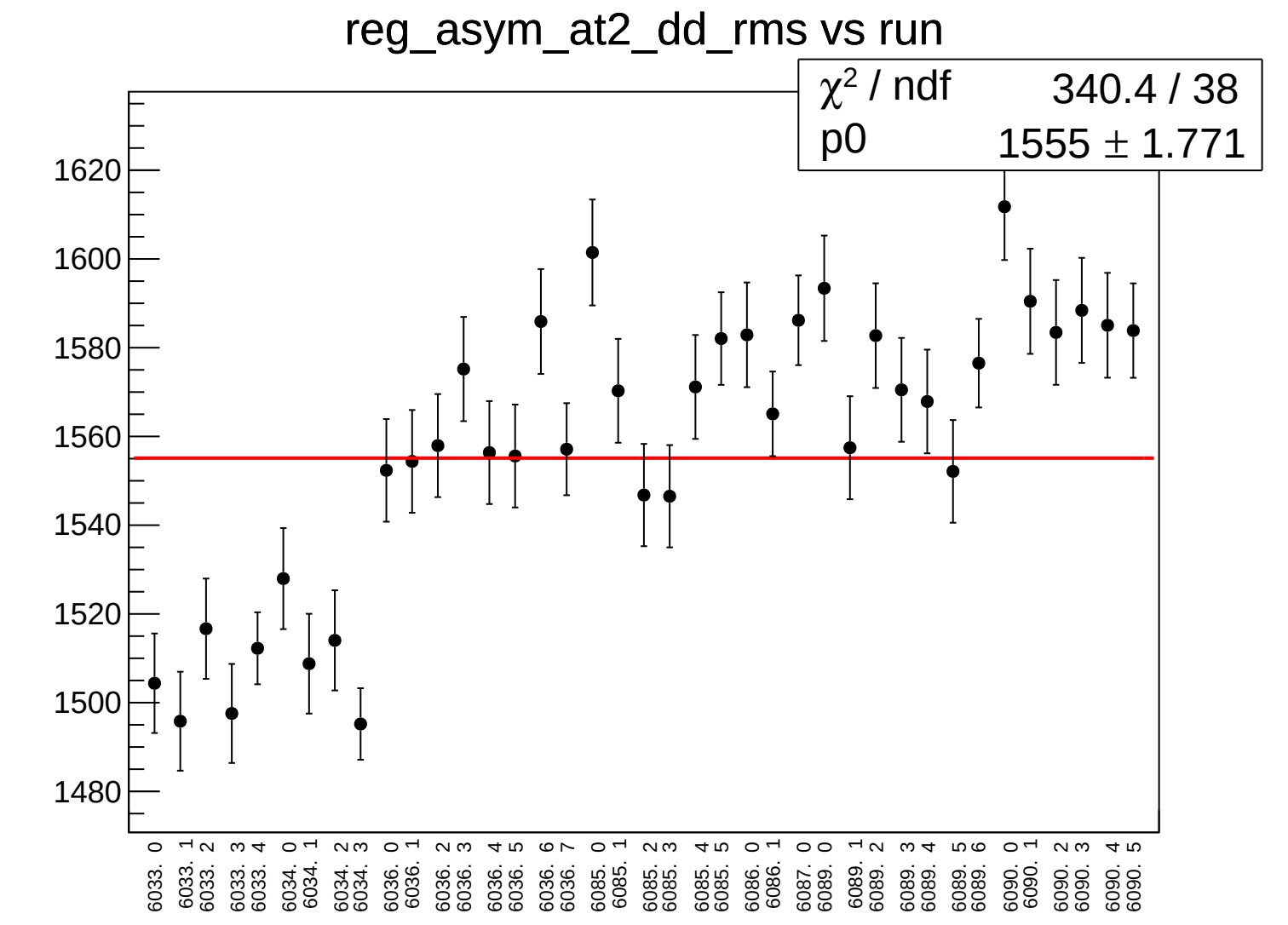

pull1D
Entries 39
Mean −0.05231
Std Dev 0.9128

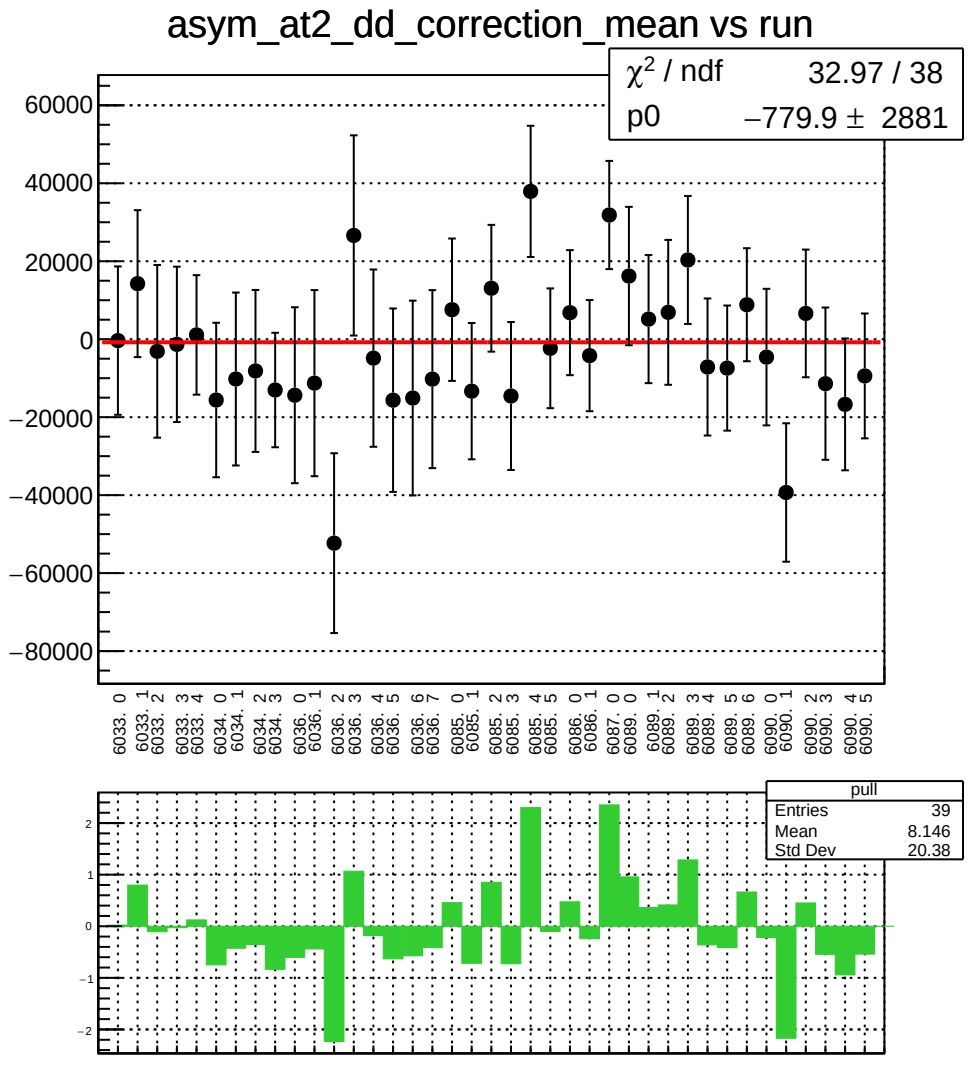

asym_at2_avg_correction_rms vs run
χ² / ndf 5873 / 38
p0 6104 ± 6.977
7500
7000
6500
6000
5500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

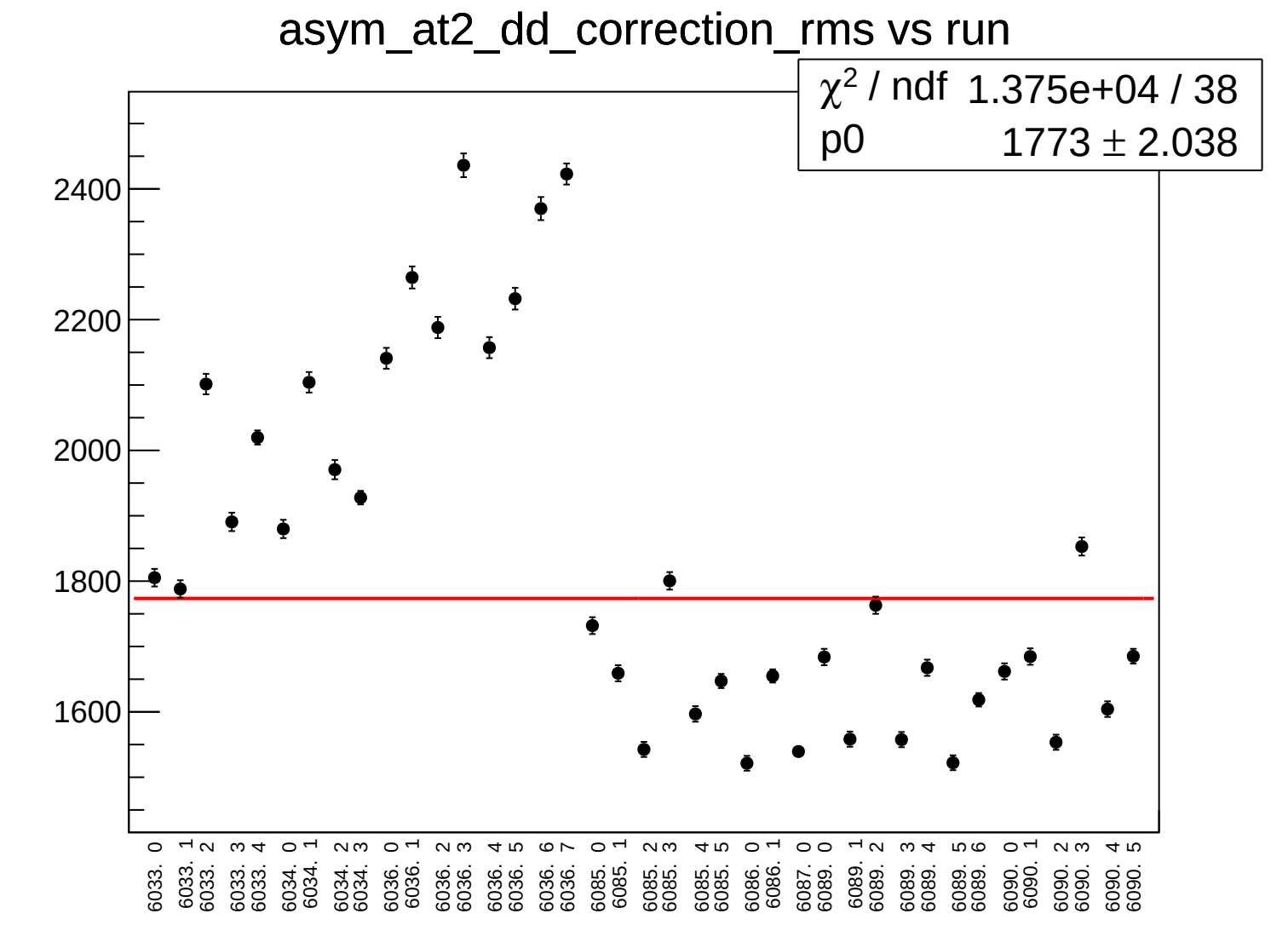

asym_at2_avg_mean vs run
×10^3
χ² / ndf 31.3 / 38
p0 −1630 ± 1.023e+04
300
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −16.68
Std Dev 29.81
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.04206
Std Dev 0.8948
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

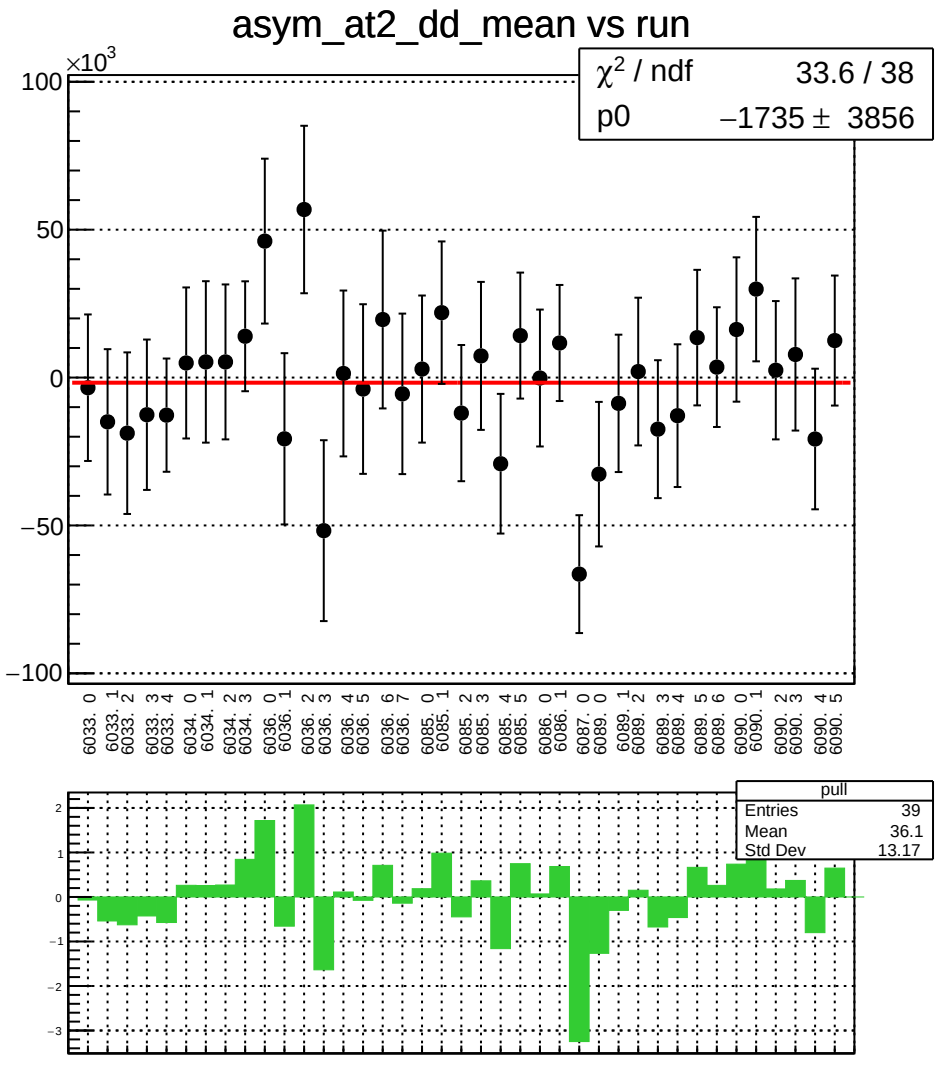

asym_at2_avg_rms vs run
χ² / ndf 5248 / 38
p0 6329 ± 7.23
8000
7500
7000
6500
6000
5500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

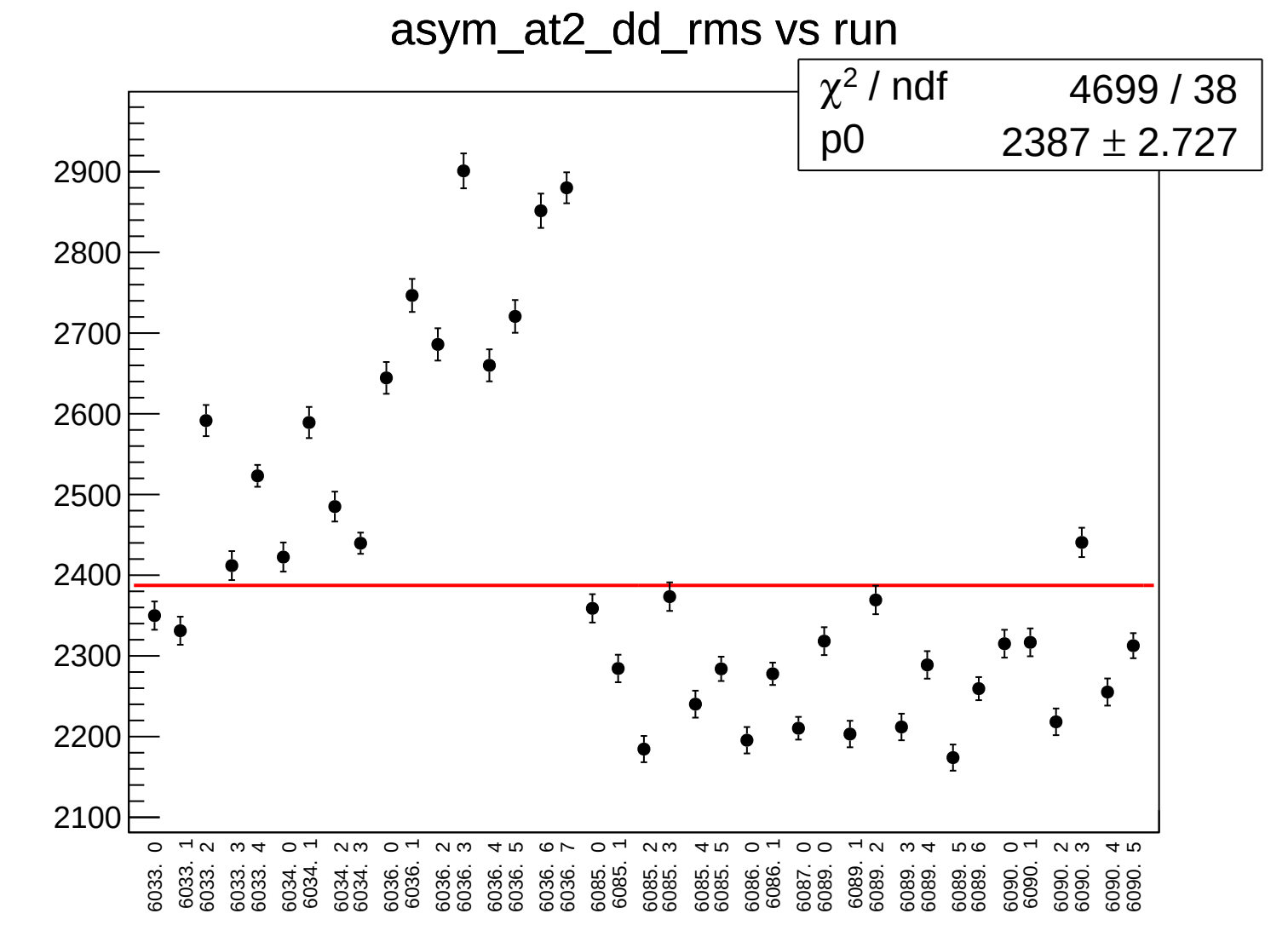

reg_asym_at2_dd_mean vs run
χ² / ndf 32.59 / 38
p0 −3851 ± 2505
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 649.2
Std Dev 635.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.001919
Std Dev 0.9141
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

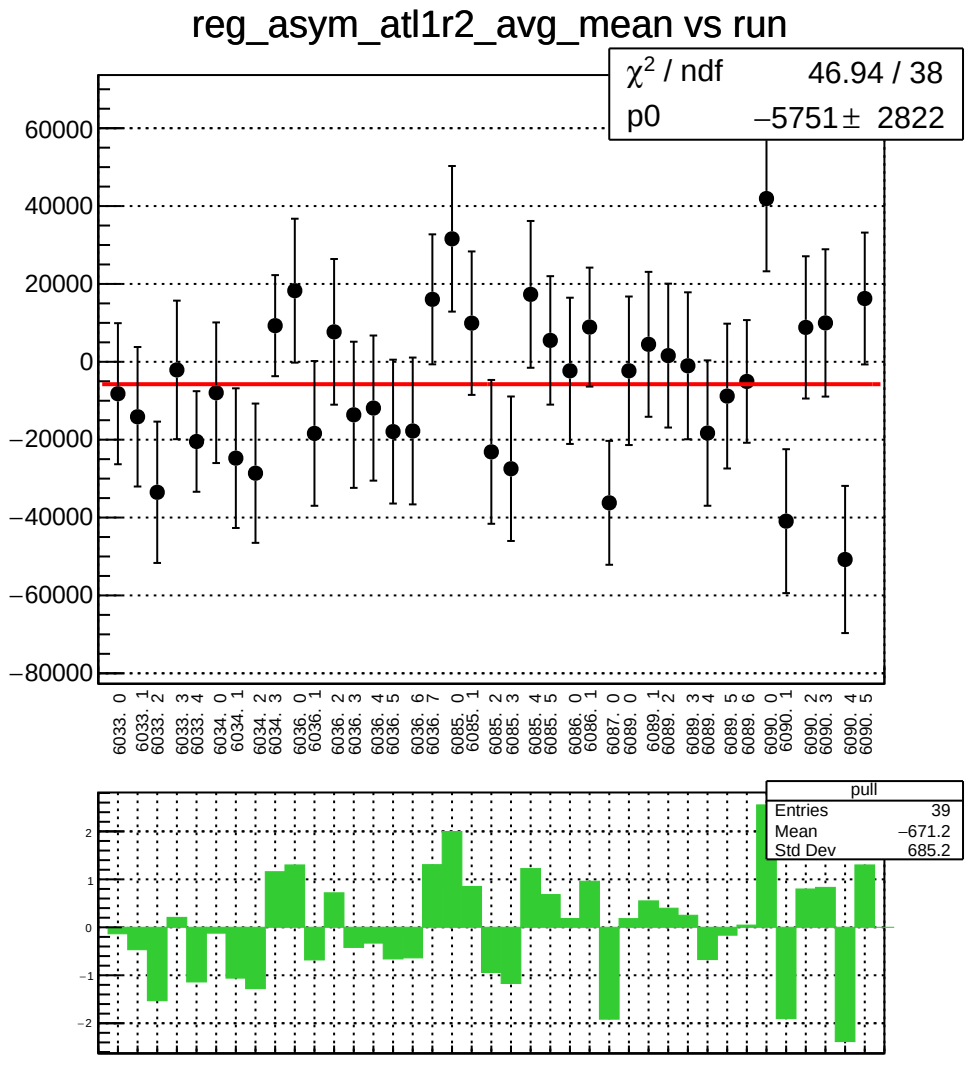

reg_asym_at2_dd_rms vs run
χ² / ndf 340.4 / 38
p0 1555 ± 1.771
1620
1600
1580
1560
1540
1520
1500
1480
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

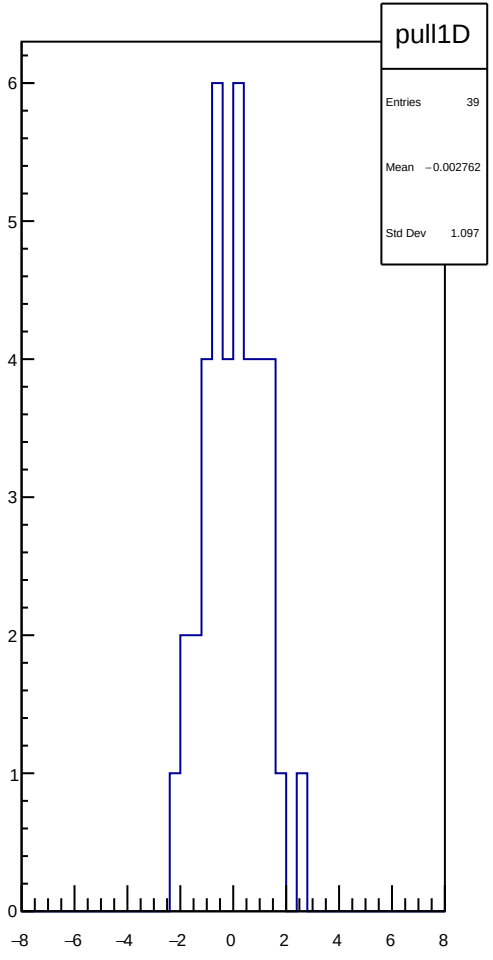

asym_at2_dd_correction_mean vs run
χ² / ndf 32.97 / 38
p0 −779.9 ± 2881
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 8.146
Std Dev 20.38
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05051
Std Dev 0.9181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

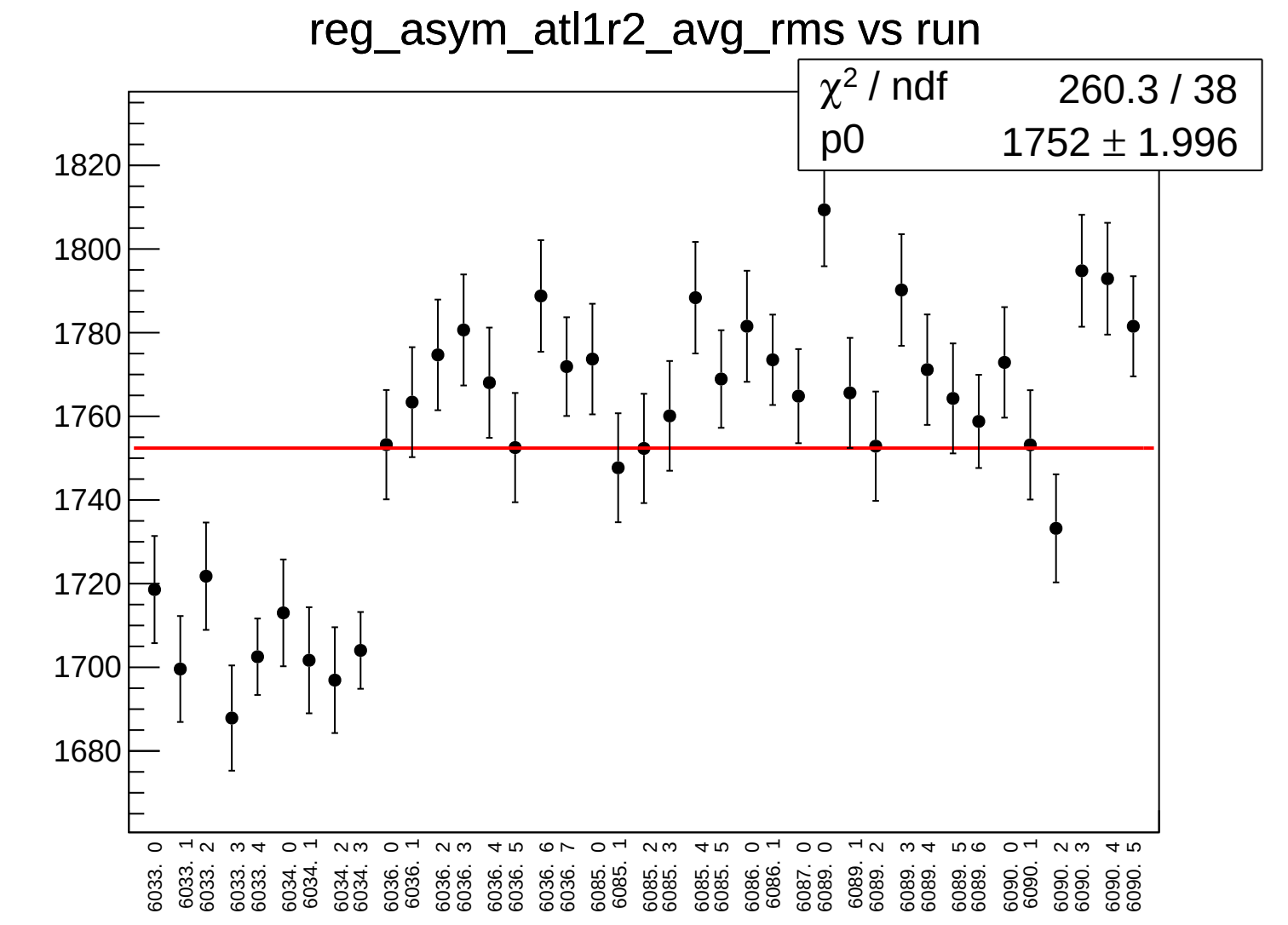

asym_at2_dd_correction_rms vs run
χ² / ndf 1.375e+04 / 38
p0 1773 ± 2.038
2400
2200
2000
1800
1600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

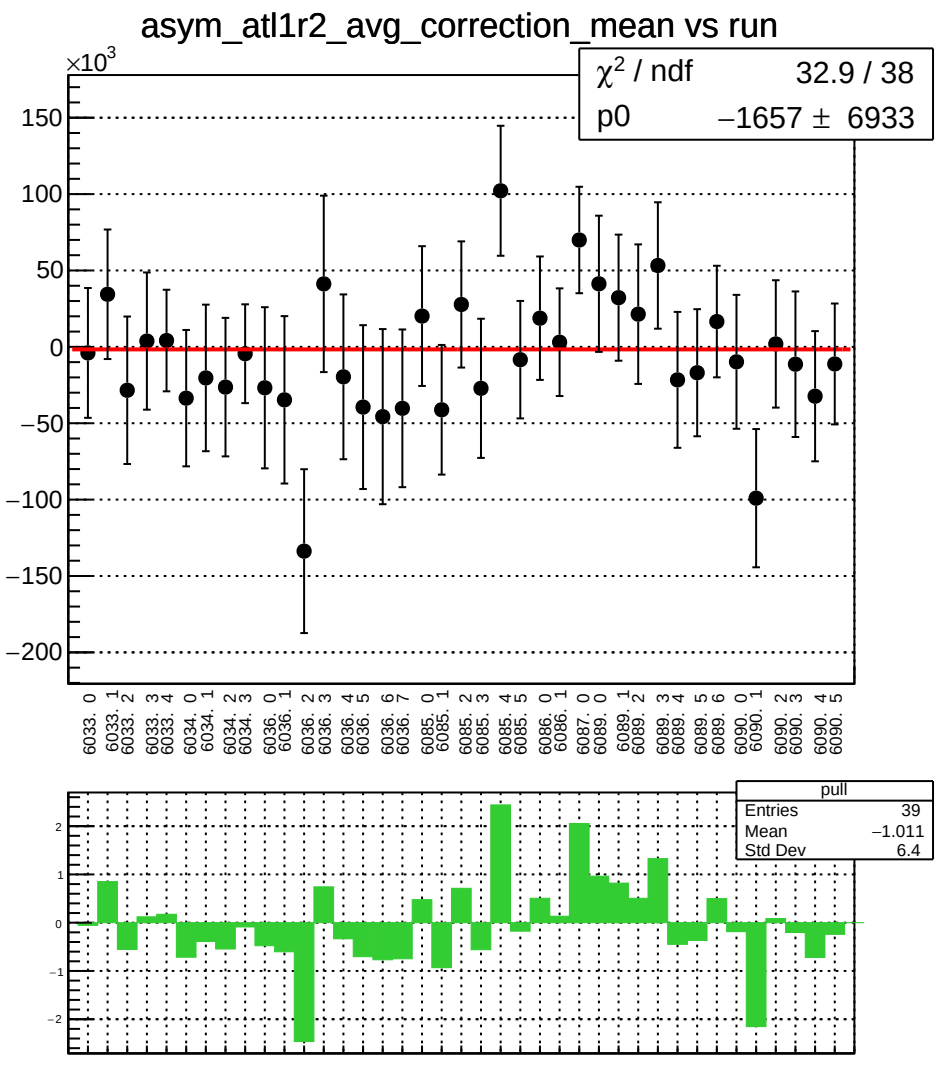

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 33.6 / 38
p0 −1735 ± 3856
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.1
Std Dev 13.17
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.01242
Std Dev 0.9281
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

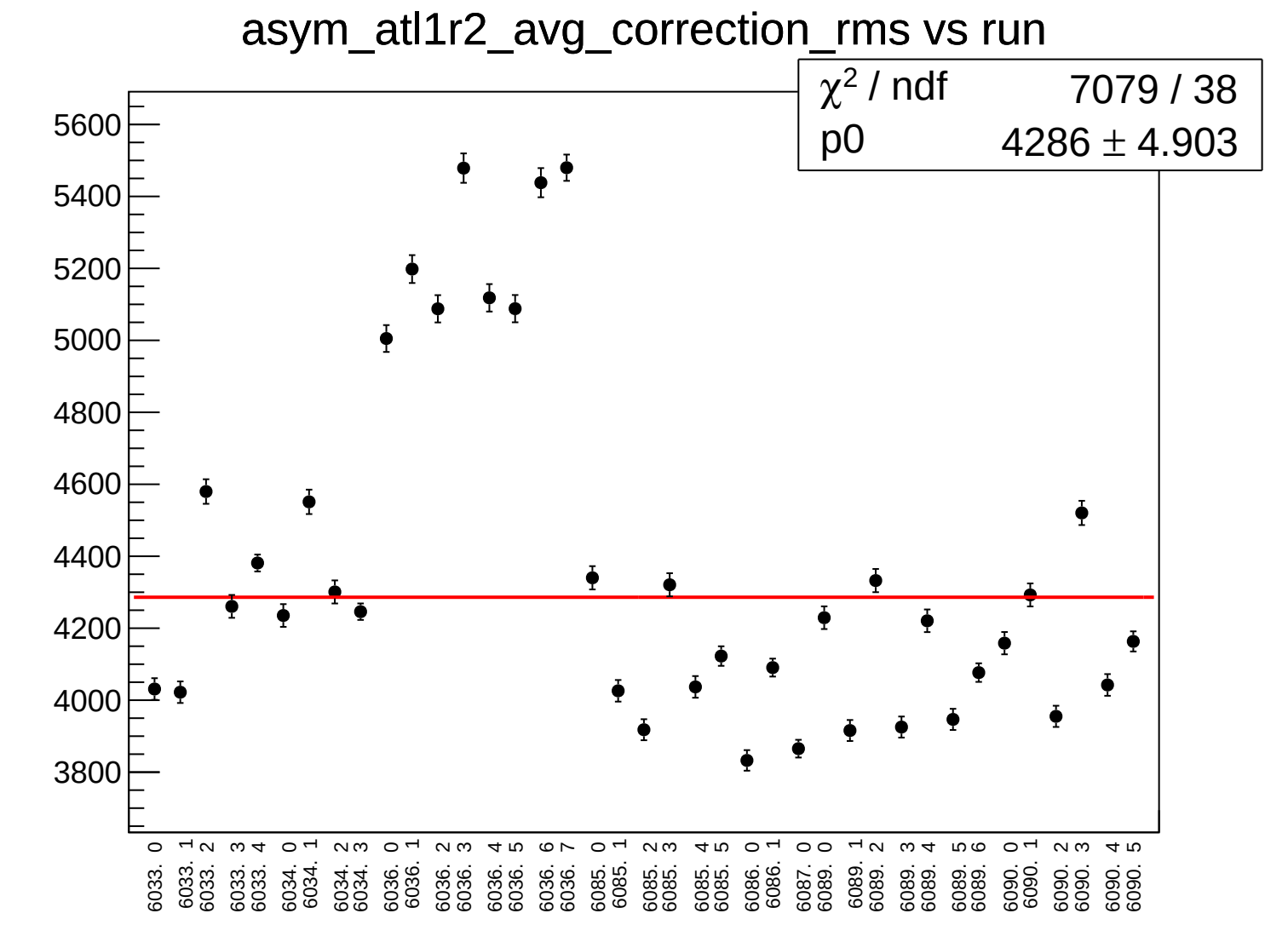

asym_at2_dd_rms vs run
χ² / ndf 4699 / 38
p0 2387 ± 2.727
2900
2800
2700
2600
2500
2400
2300
2200
2100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

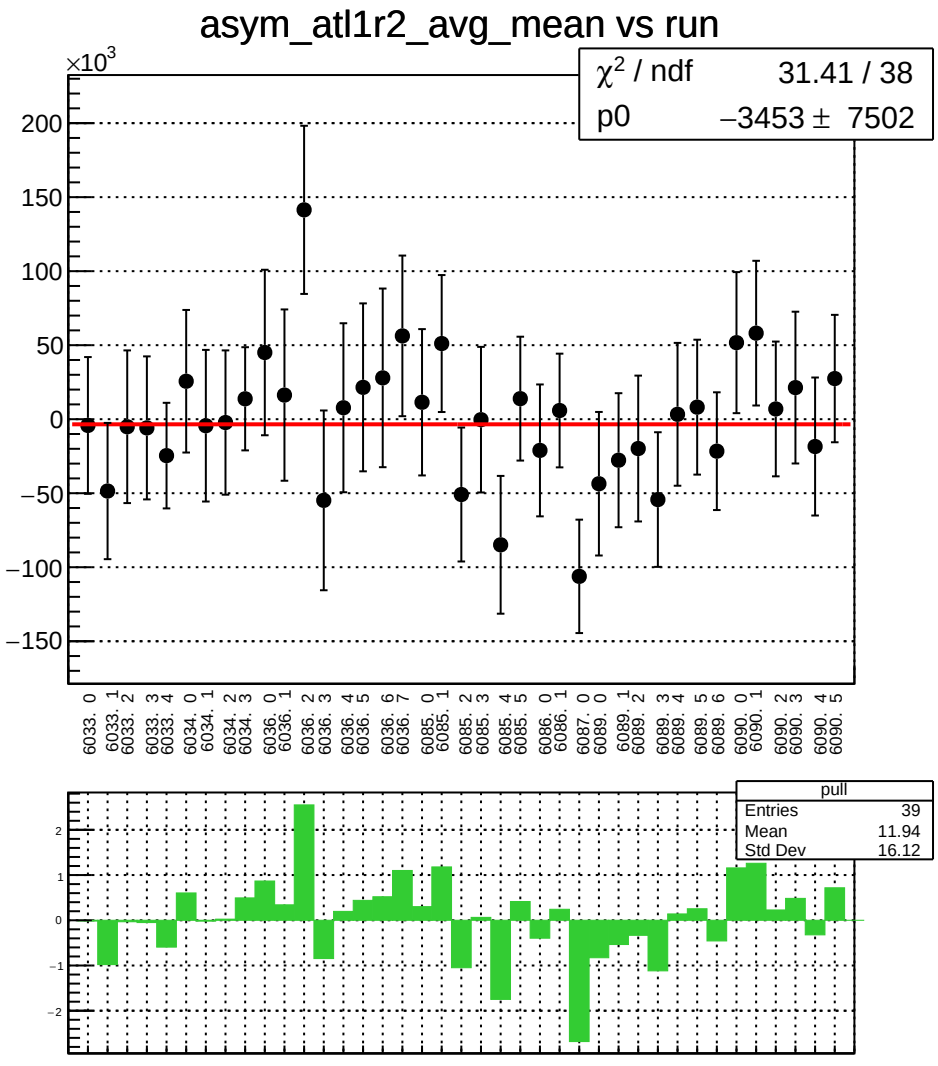

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 46.94 / 38
p0 −5751 ± 2822
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −671.2
Std Dev 685.2
2
1
0
−1
−2

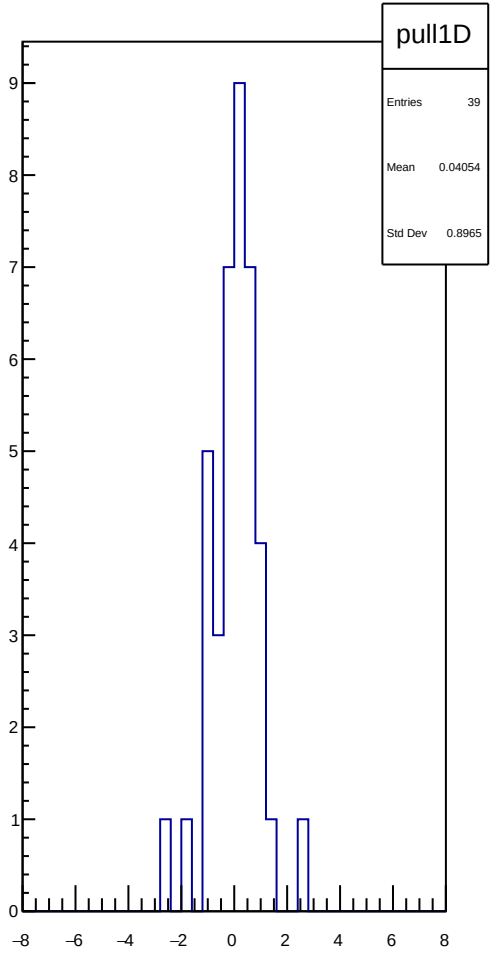

pull1D
Entries 39
Mean −0.002762
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

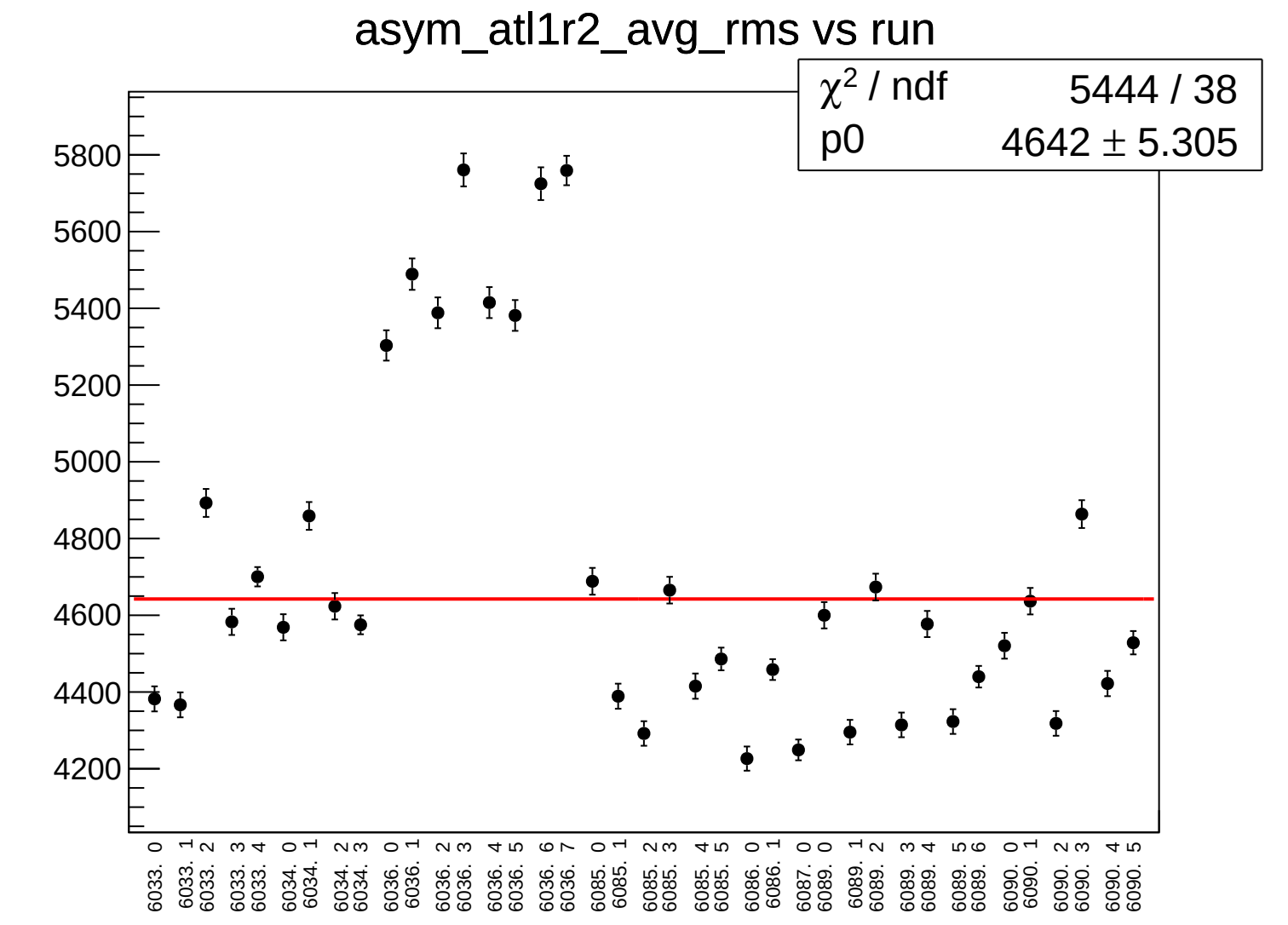

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 260.3 / 38
p0 1752 ± 1.996
1820
1800
1780
1760
1740
1720
1700
1680
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

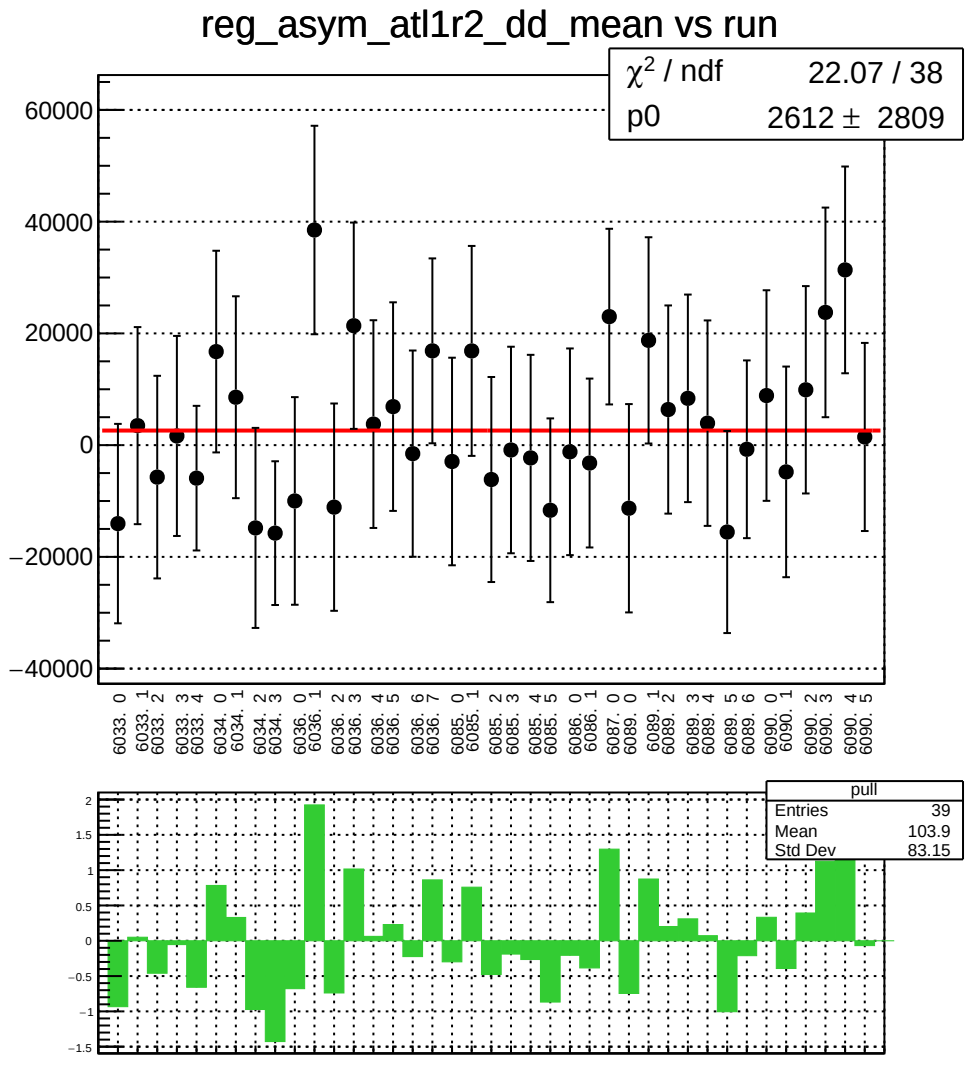

asym_atl1r2_avg_correction_mean vs run
×10^3
χ^2 / ndf 32.9 / 38
p0 −1657 ± 6933
150
100
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1.011
Std Dev 6.4
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.05156
Std Dev 0.917
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

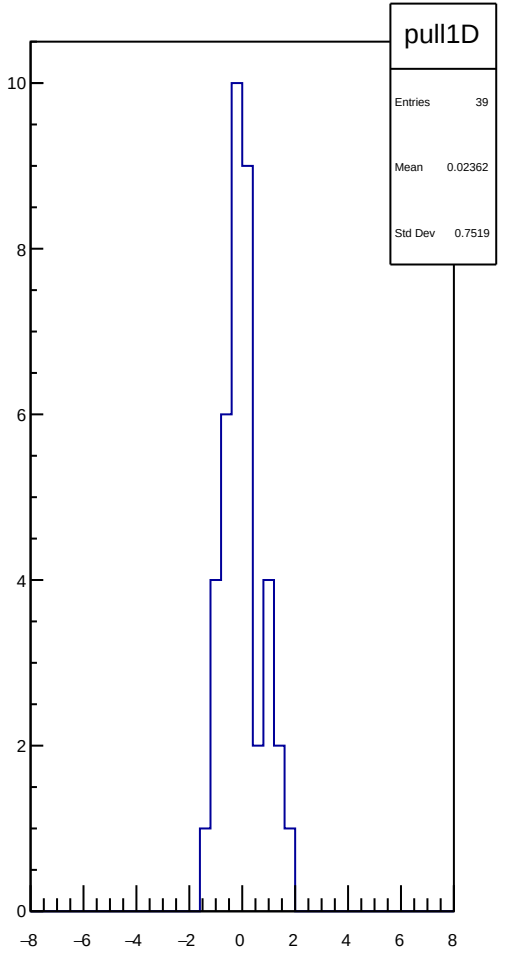

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 7079 / 38
p0 4286 ± 4.903
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

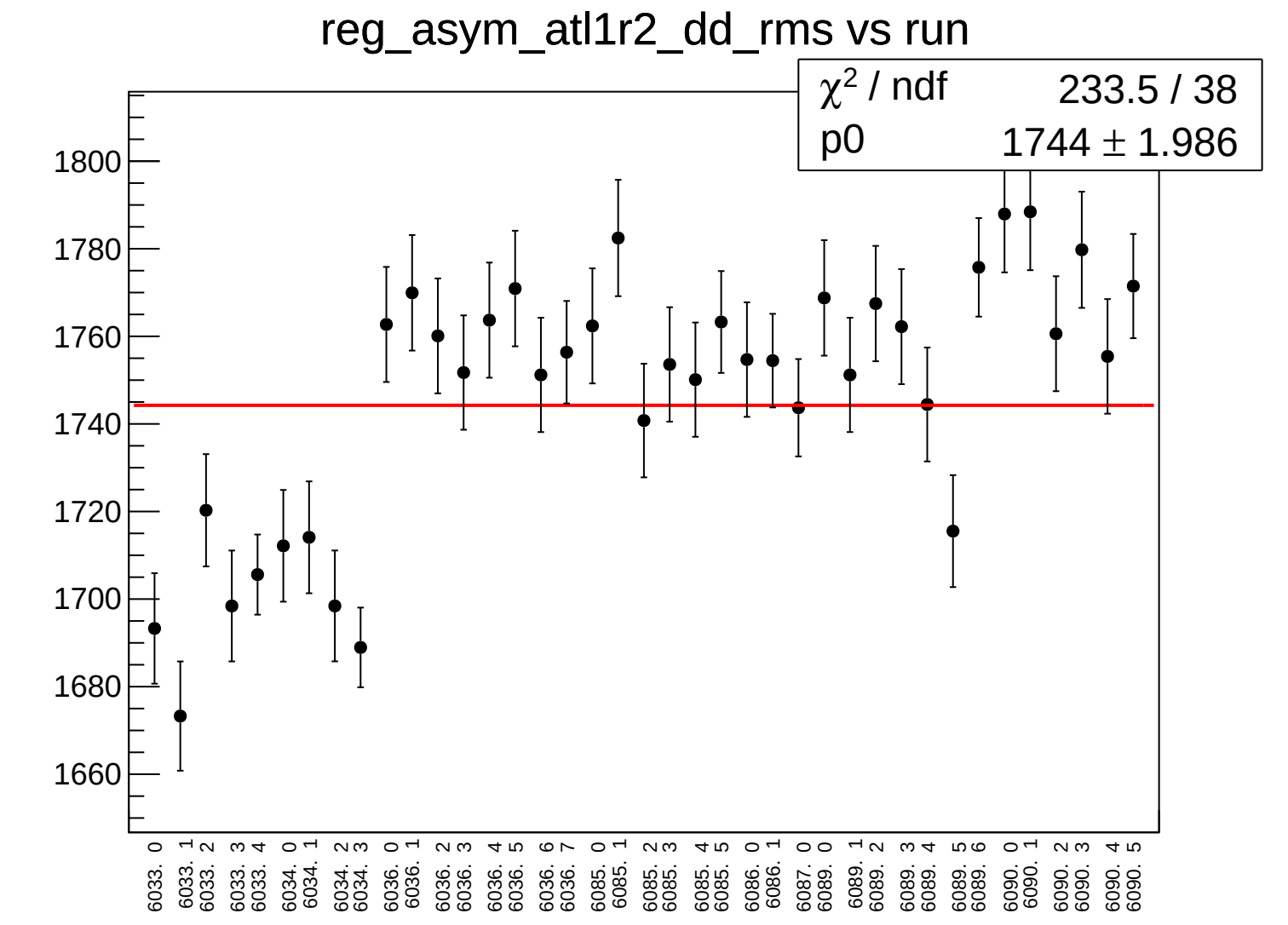

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 31.41 / 38
p0 −3453 ± 7502
200
150
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.94
Std Dev 16.12
2
1
0
−1
−2

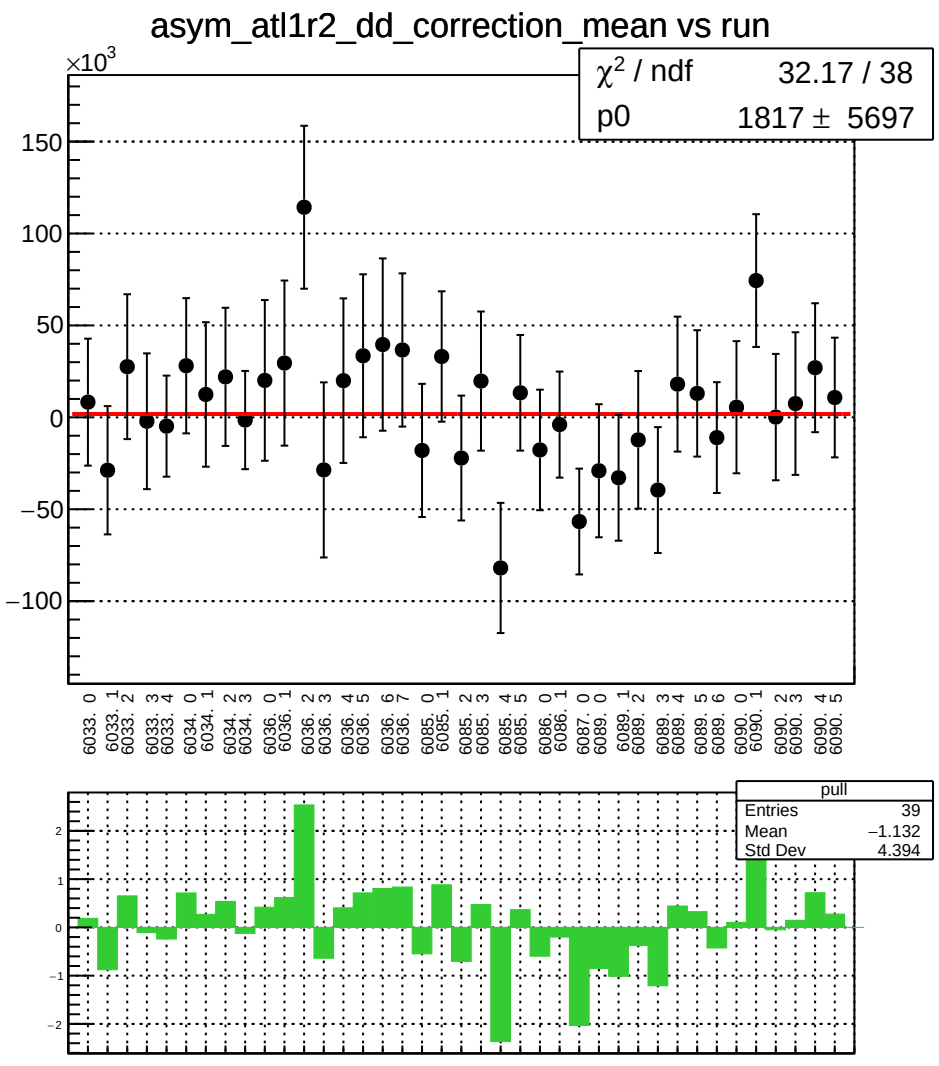

pull1D
Entries 39
Mean 0.04054
Std Dev 0.8965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

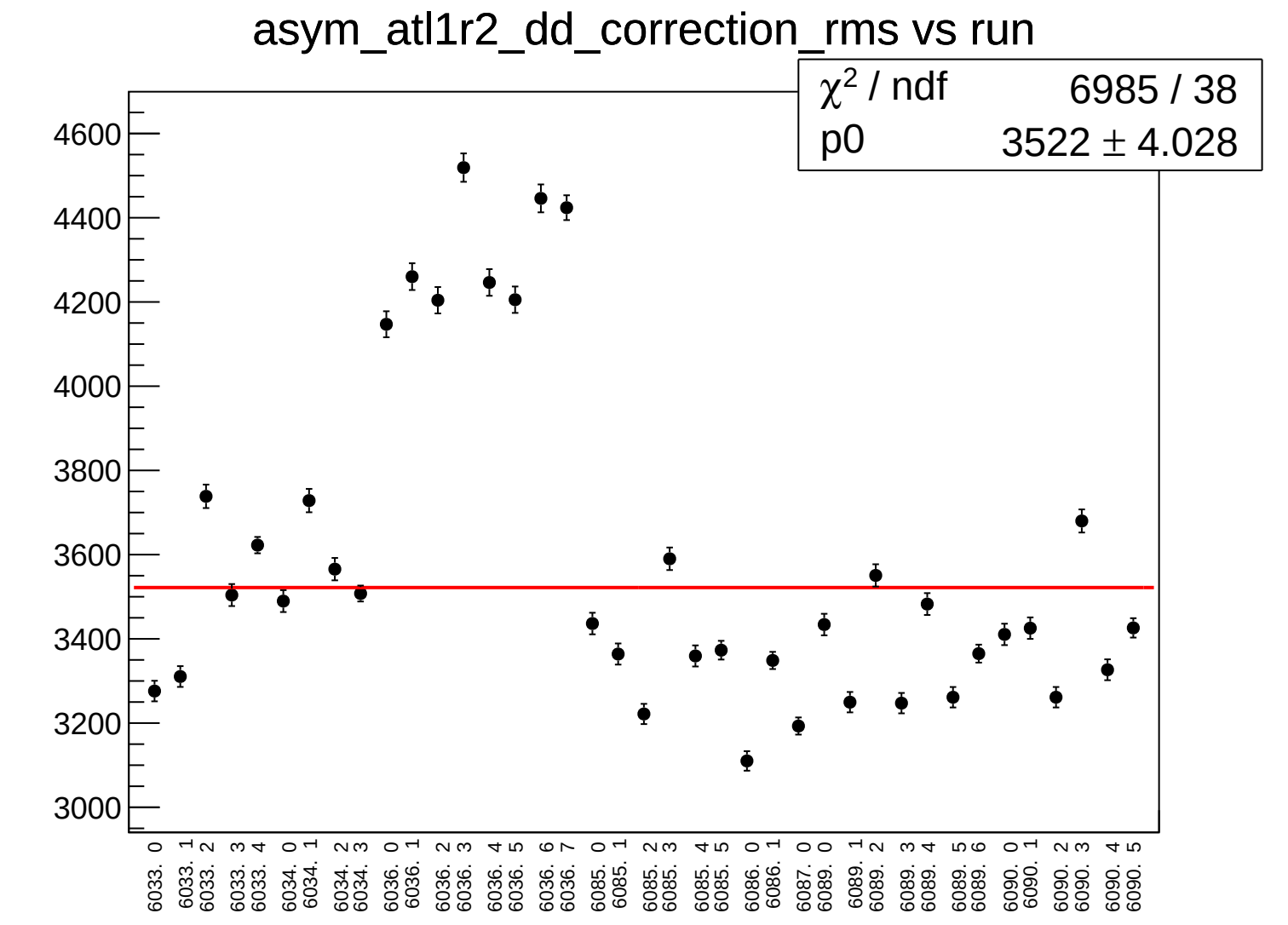

asym_atl1r2_avg_rms vs run
χ² / ndf 5444 / 38
p0 4642 ± 5.305
5800
5600
5400
5200
5000
4800
4600
4400
4200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

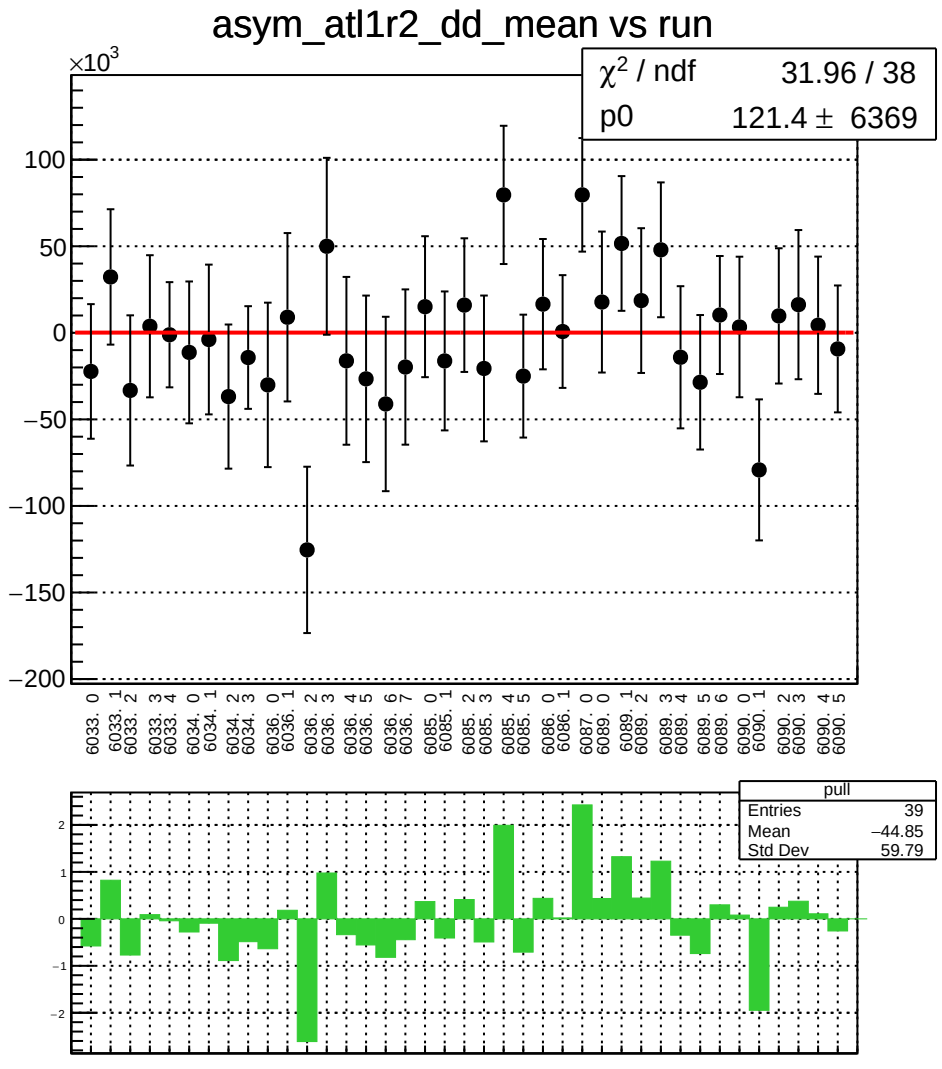

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 22.07 / 38
p0 2612 ± 2809
60000
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 103.9
Std Dev 83.15
2
1.5
1
0.5
0
−0.5
−1
−1.5

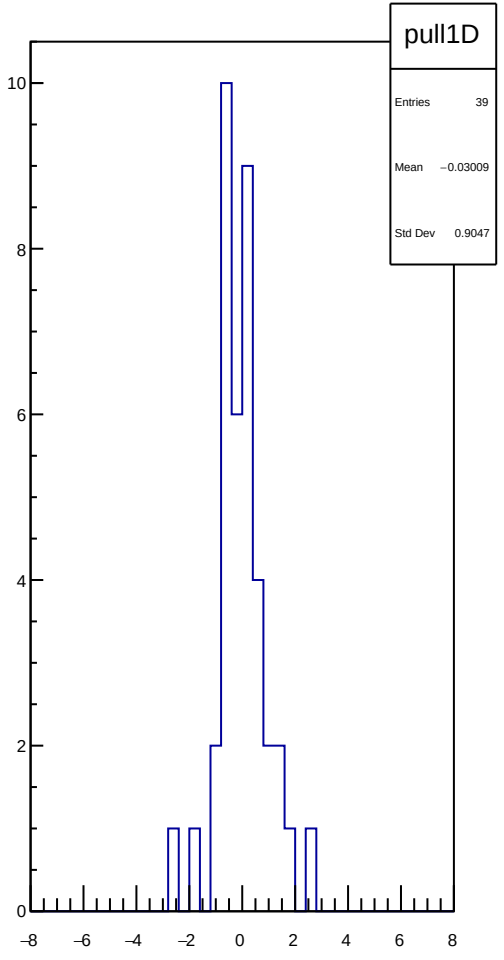

pull1D
Entries 39
Mean 0.02362
Std Dev 0.7519
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

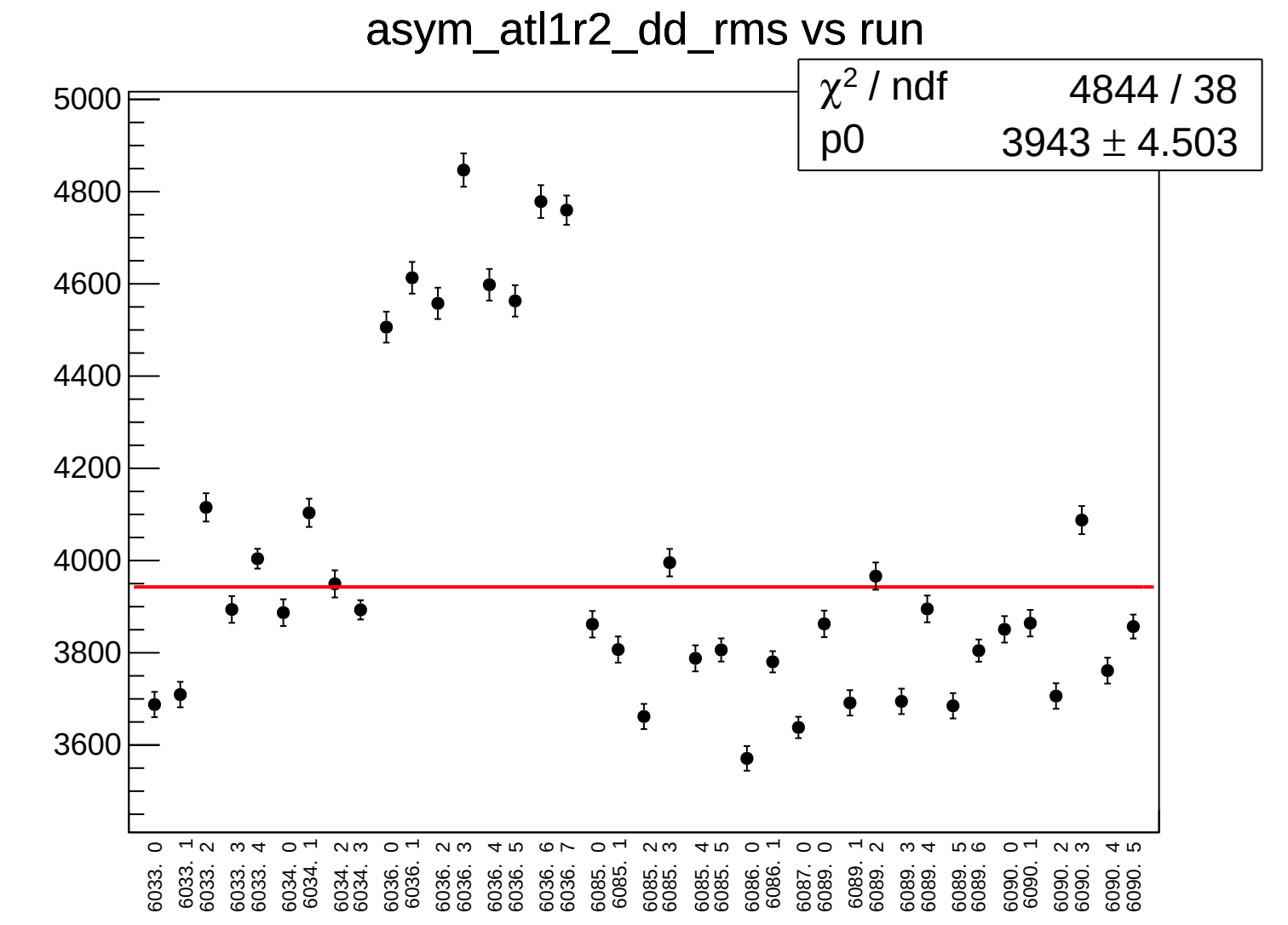

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 233.5 / 38
p0 1744 ± 1.986
1800
1780
1760
1740
1720
1700
1680
1660
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

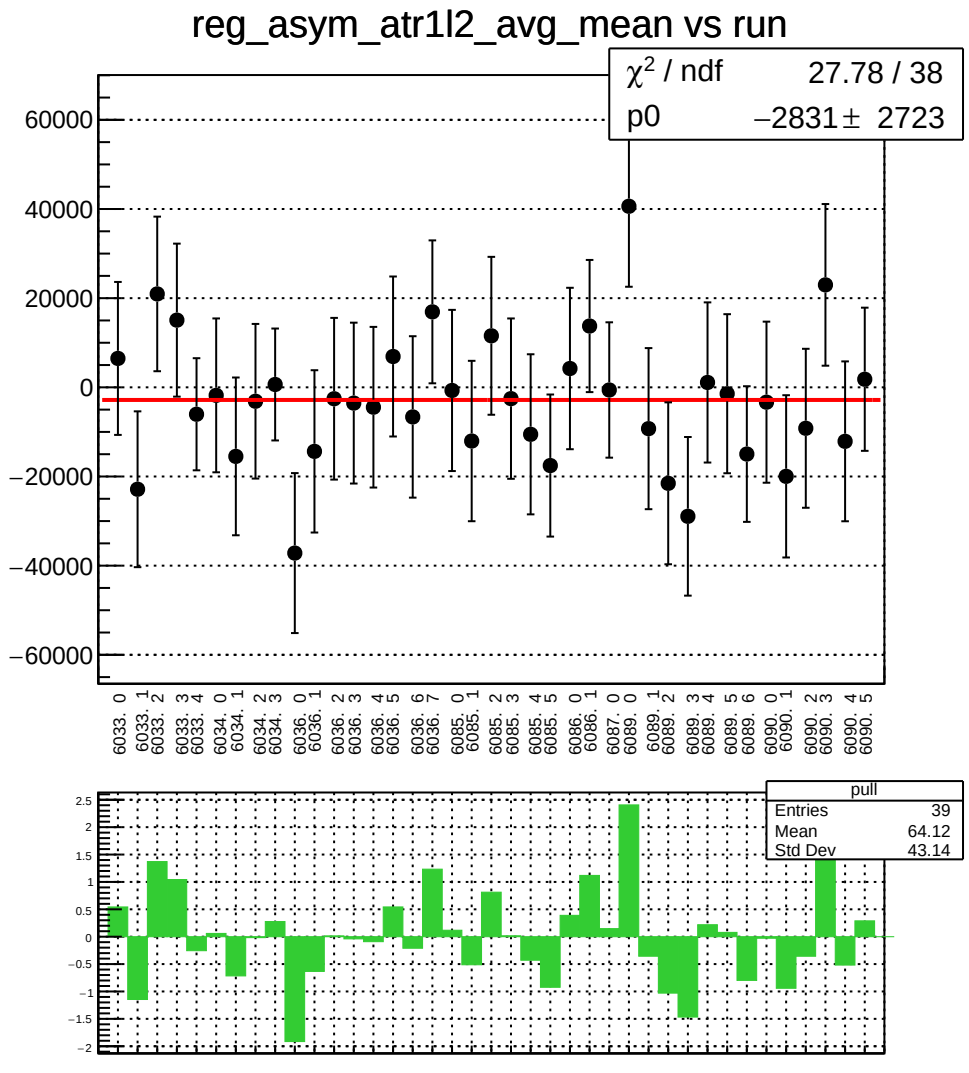

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 32.17 / 38
p0 1817 ± 5697
150
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1.132
Std Dev 4.394
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.05323
Std Dev 0.9067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

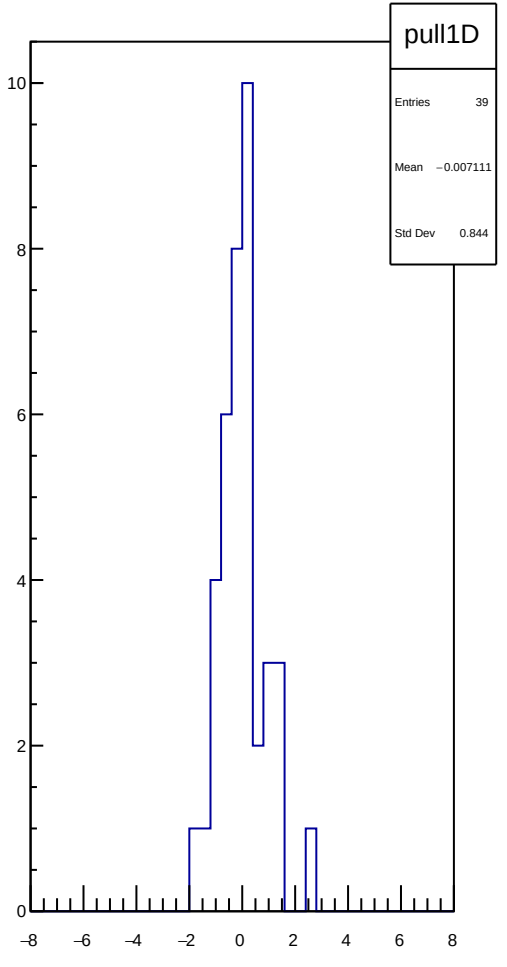

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 6985 / 38
p0 3522 ± 4.028
4600
4400
4200
4000
3800
3600
3400
3200
3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

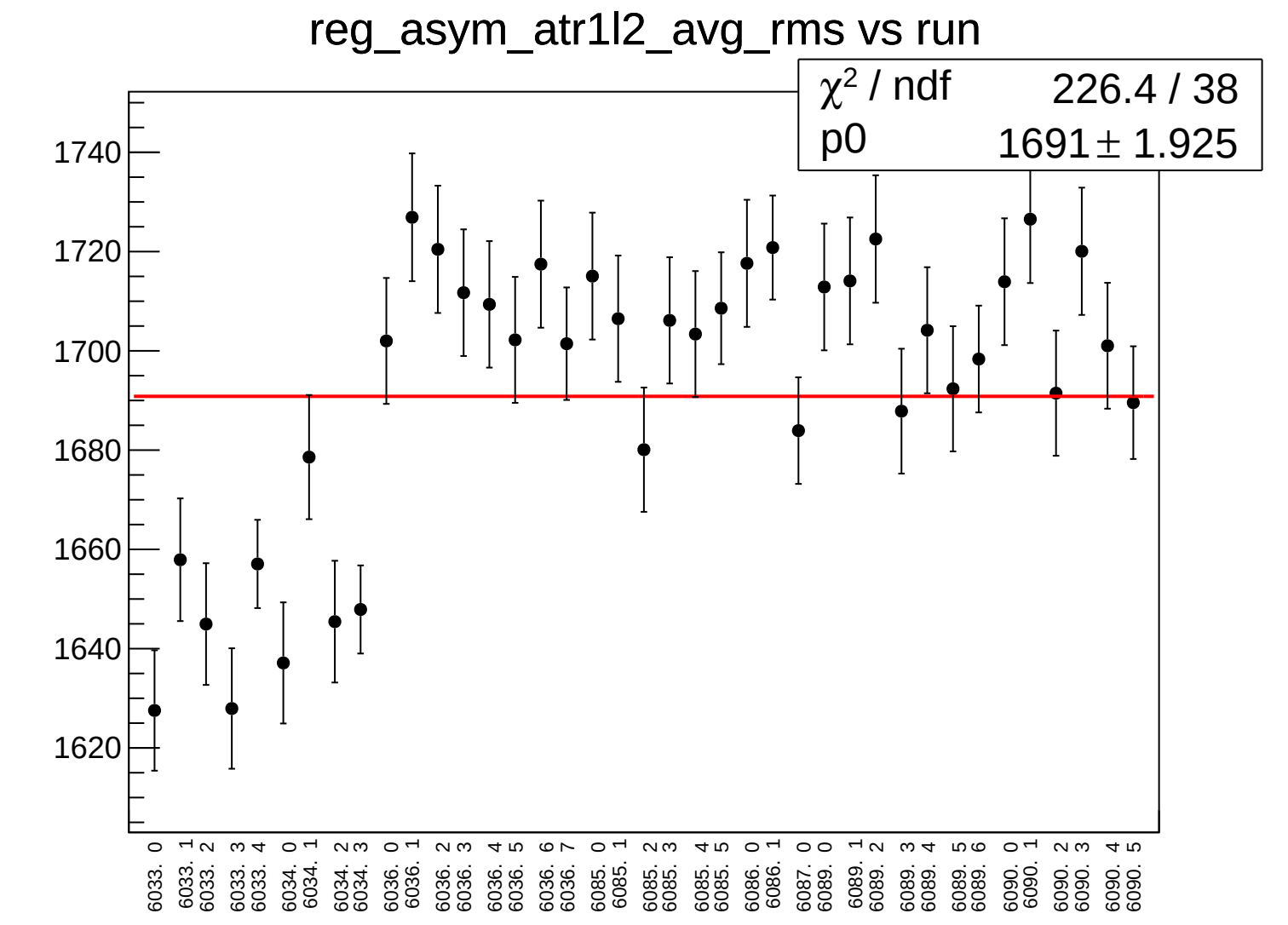

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 31.96 / 38
p0 121.4 ± 6369
100
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −44.85
Std Dev 59.79
2
1
0
−1
−2

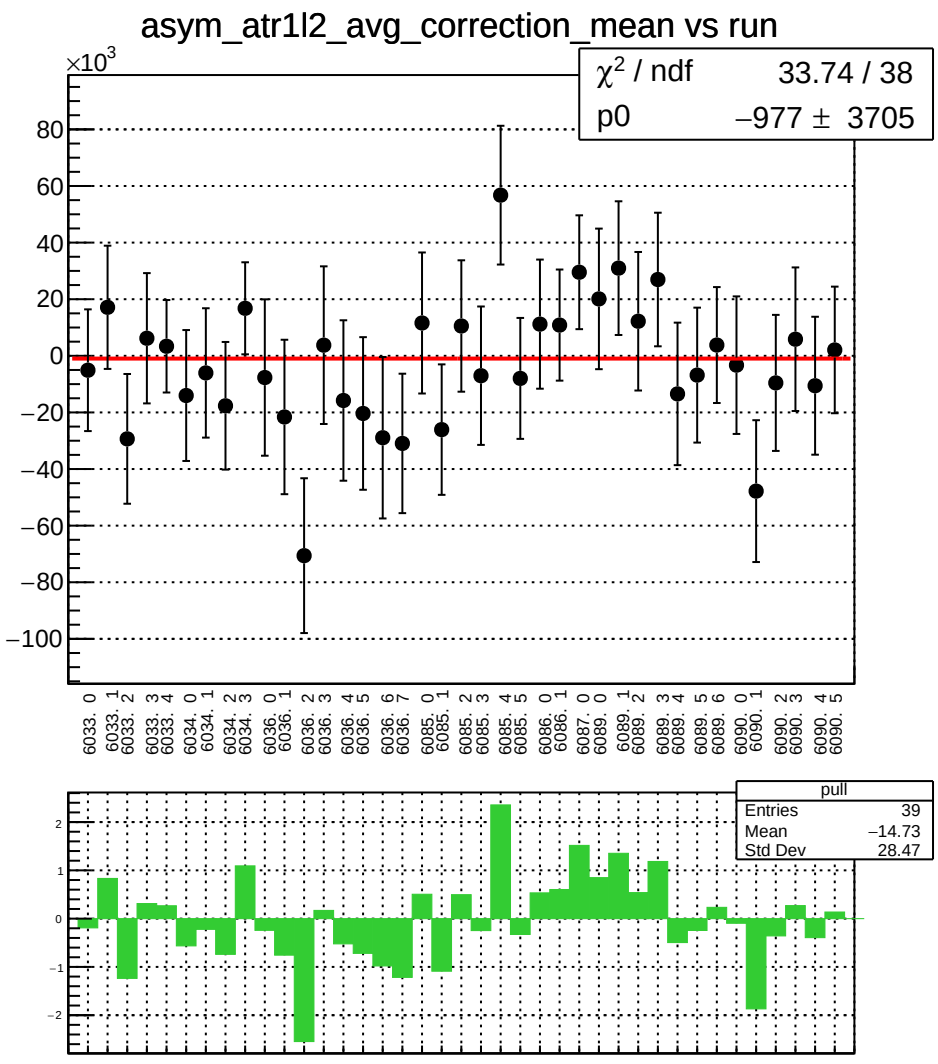

pull1D
Entries 39
Mean −0.03009
Std Dev 0.9047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

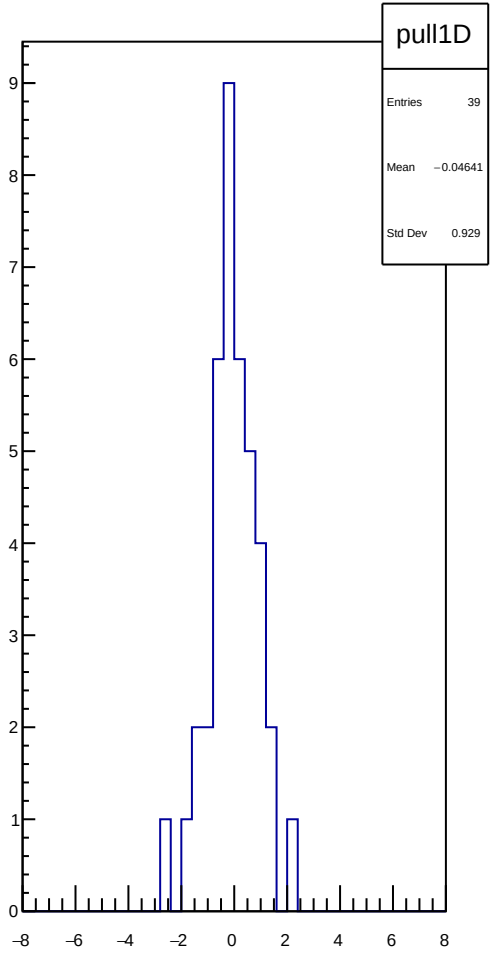

asym_atl1r2_dd_rms vs run
χ² / ndf 4844 / 38
p0 3943 ± 4.503
5000
4800
4600
4400
4200
4000
3800
3600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

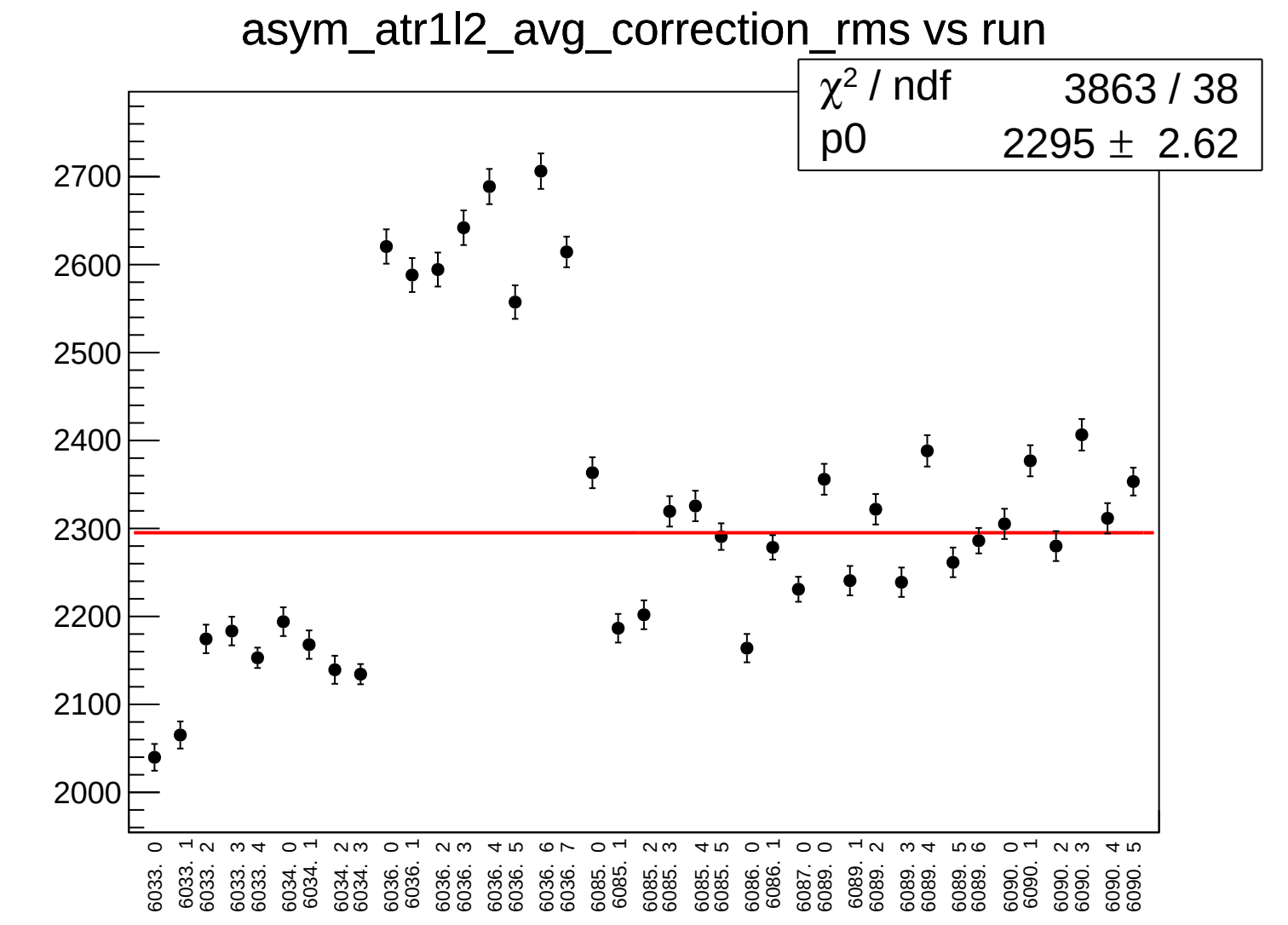

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 27.78 / 38
p0 −2831 ± 2723
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 64.12
Std Dev 43.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

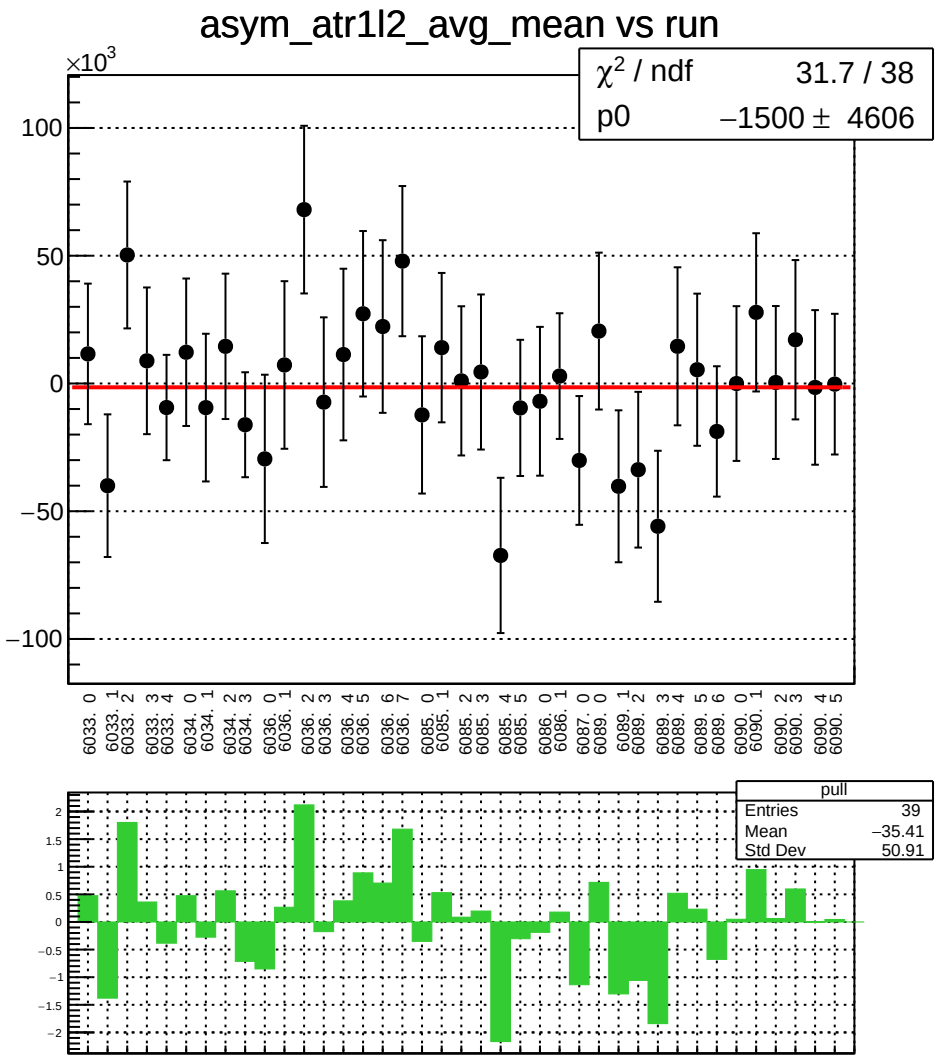

pull1D
Entries 39
Mean −0.007111
Std Dev 0.844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

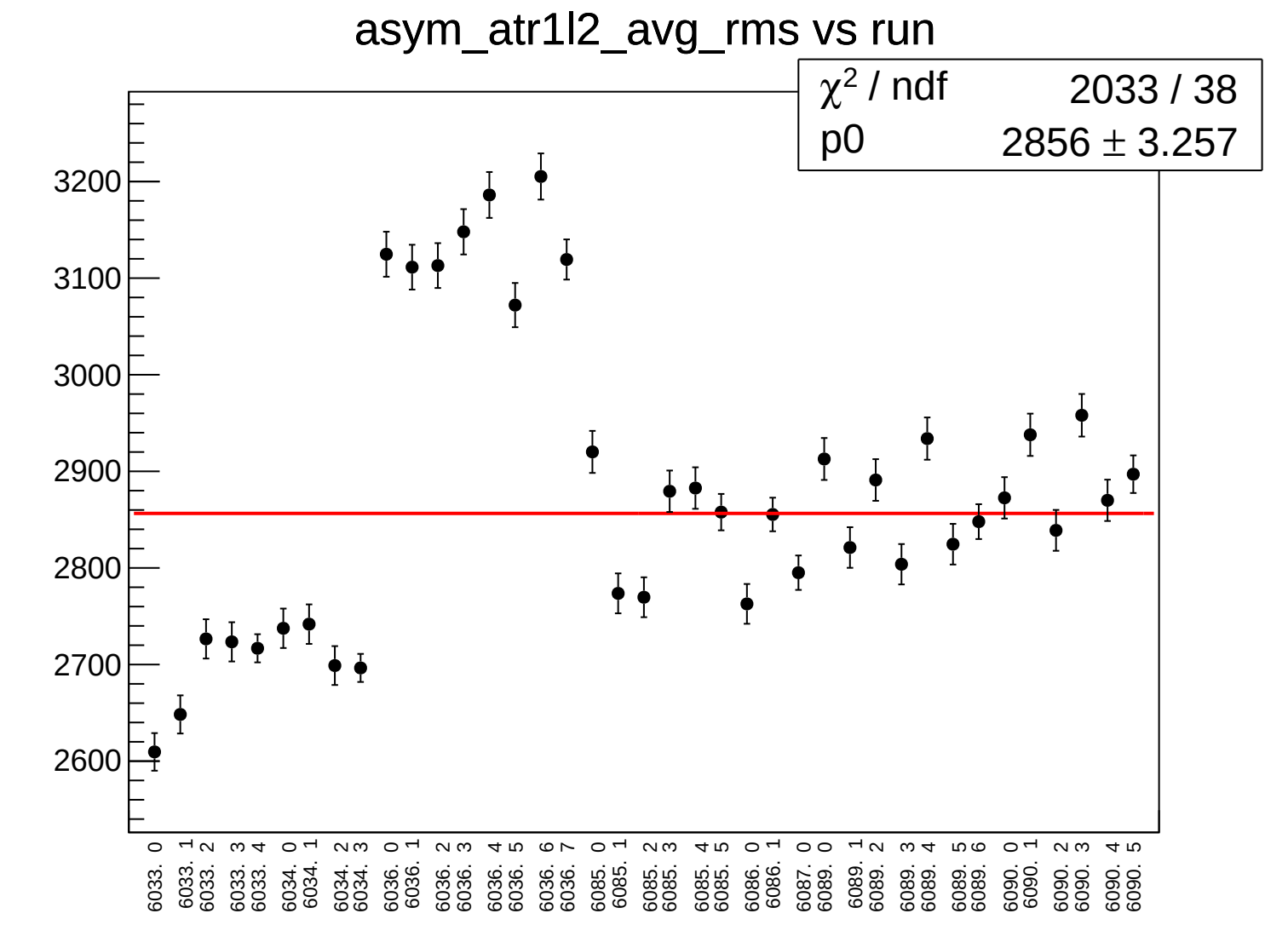

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 226.4 / 38
p0 1691 ± 1.925
1740
1720
1700
1680
1660
1640
1620
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

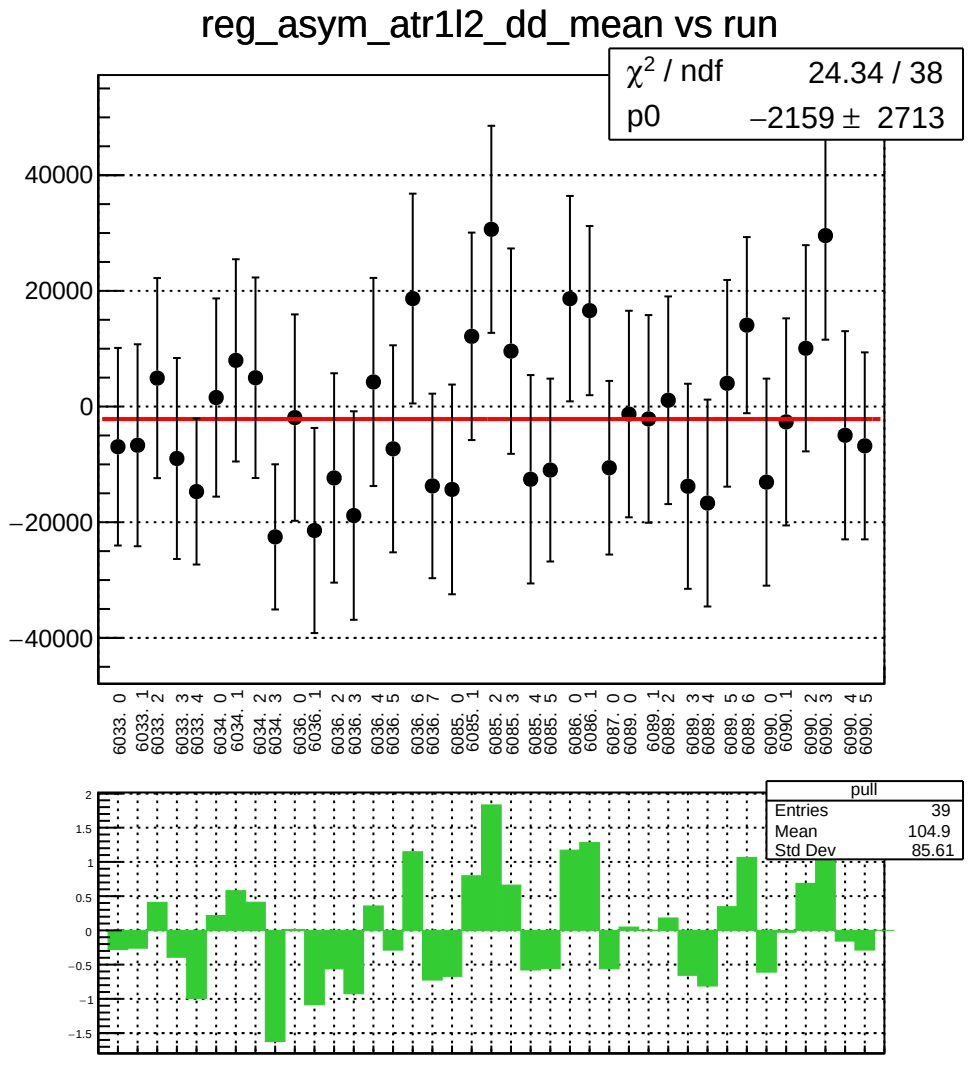

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 33.74 / 38
p0 −977 ± 3705
80
60
40
20
0
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −14.73
Std Dev 28.47
2
1
0
−1
−2

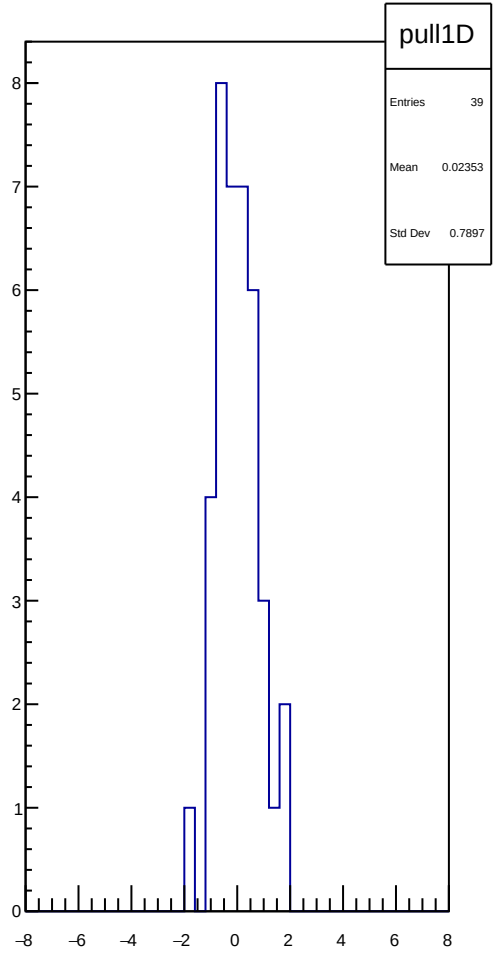

pull1D
Entries 39
Mean −0.04641
Std Dev 0.929
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

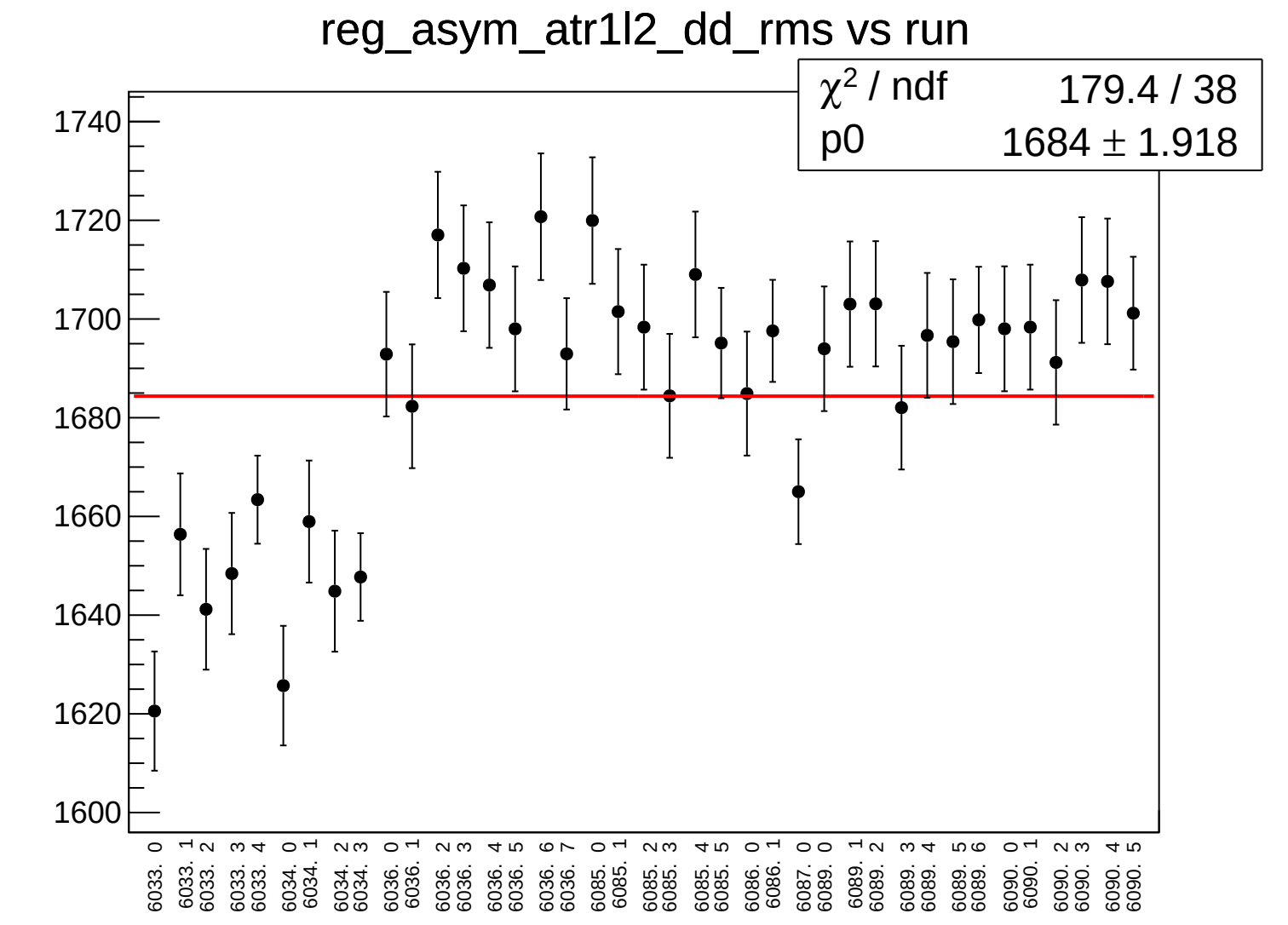

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 3863 / 38
p0 2295 ± 2.62
2700
2600
2500
2400
2300
2200
2100
2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

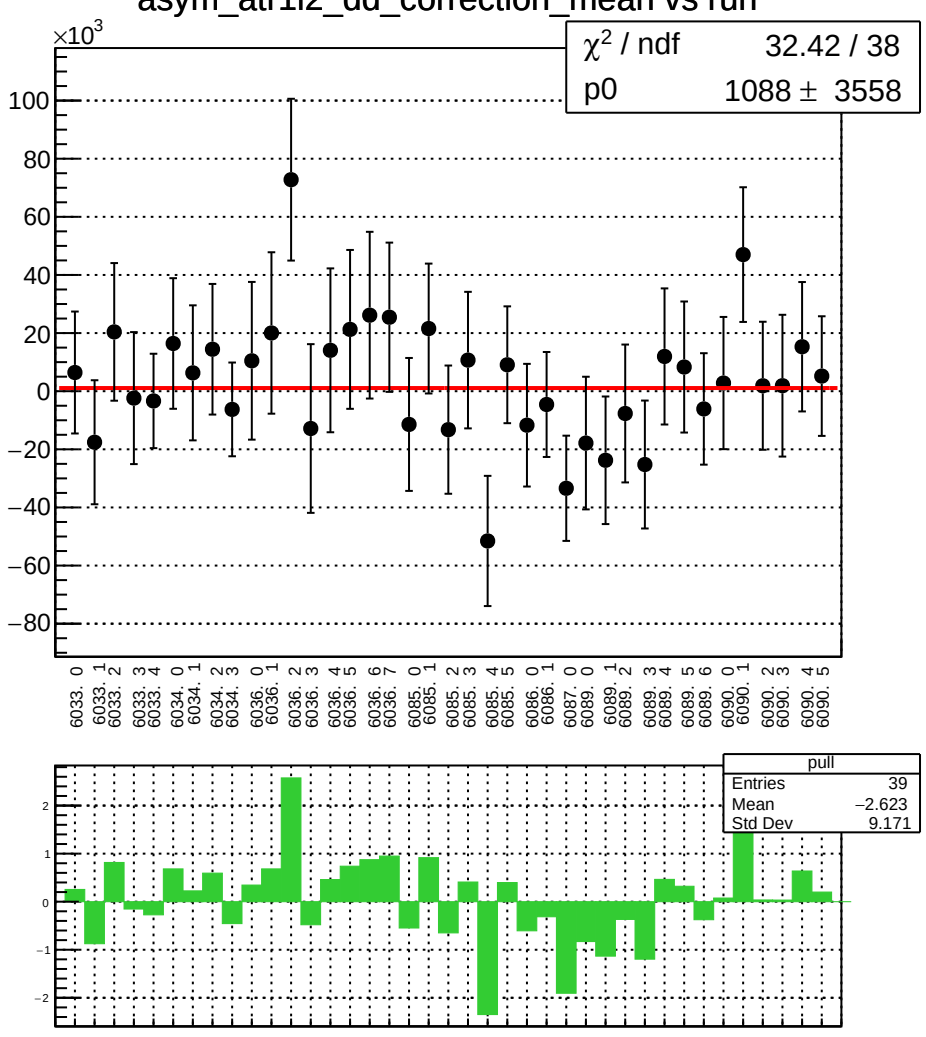

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 31.7 / 38
p0 −1500 ± 4606
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −35.41
Std Dev 50.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02774
Std Dev 0.9012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

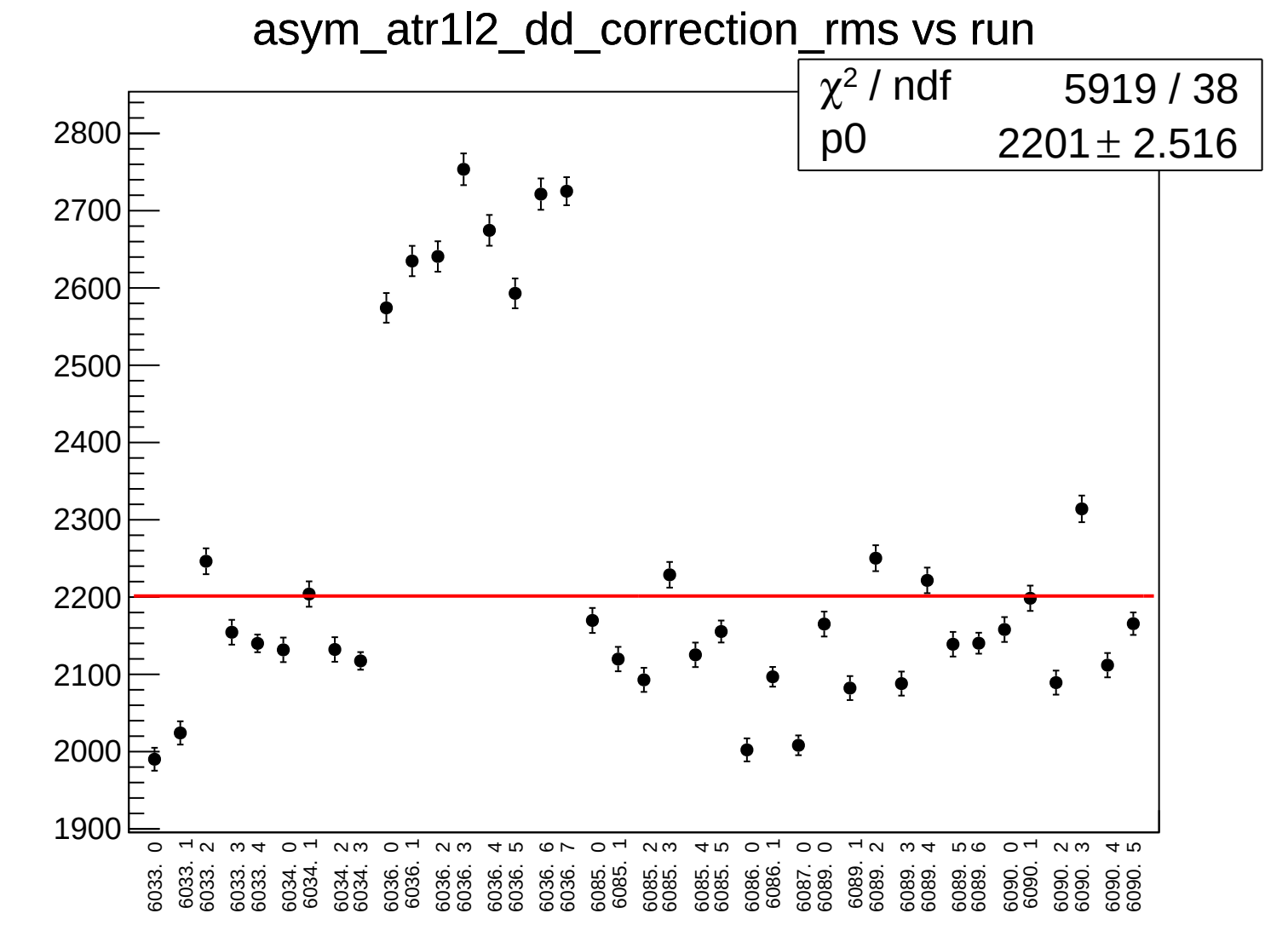

asym_atr1l2_avg_rms vs run
χ² / ndf 2033 / 38
p0 2856 ± 3.257
3200
3100
3000
2900
2800
2700
2600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

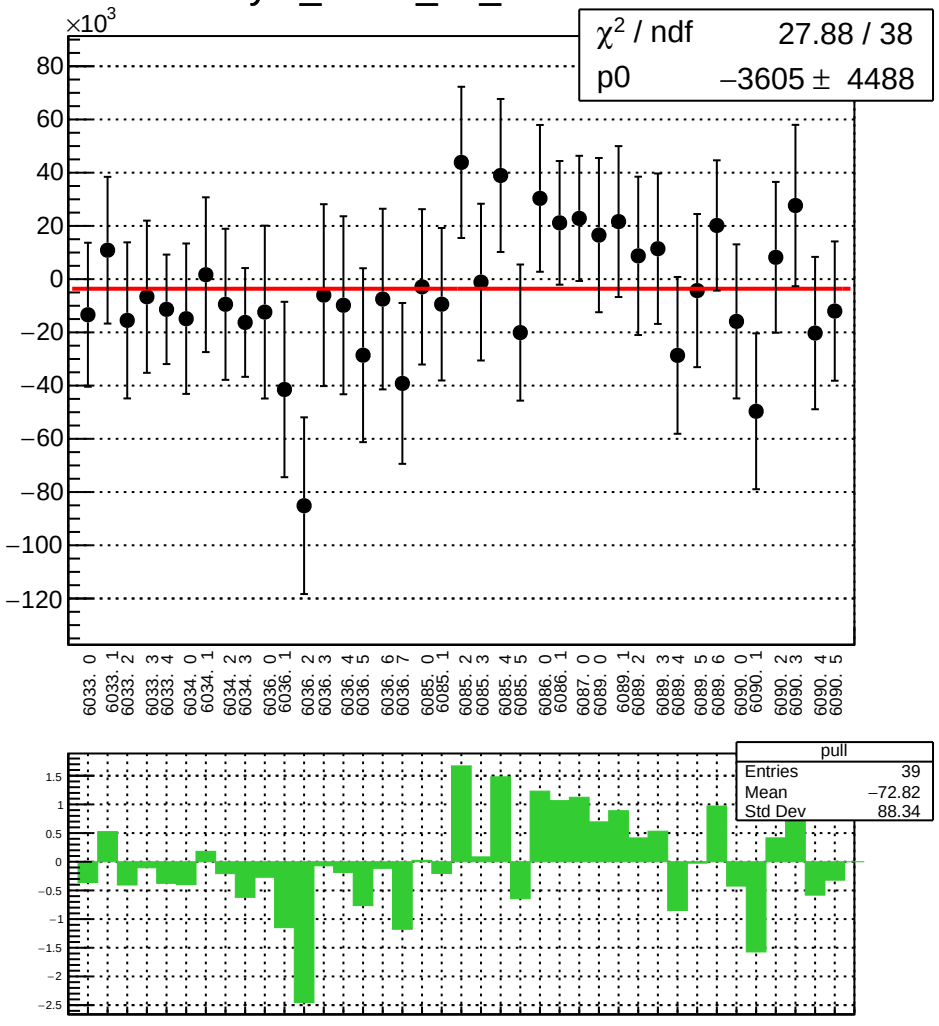

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 24.34 / 38
p0 −2159 ± 2713
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 104.9
Std Dev 85.61
2
1.5
1
0.5
0
−0.5
−1
−1.5

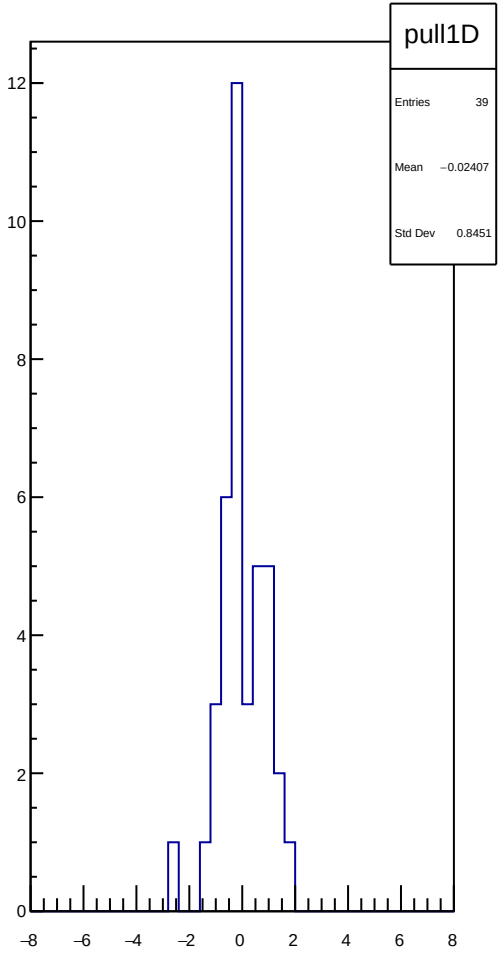

pull1D
Entries 39
Mean 0.02353
Std Dev 0.7897
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

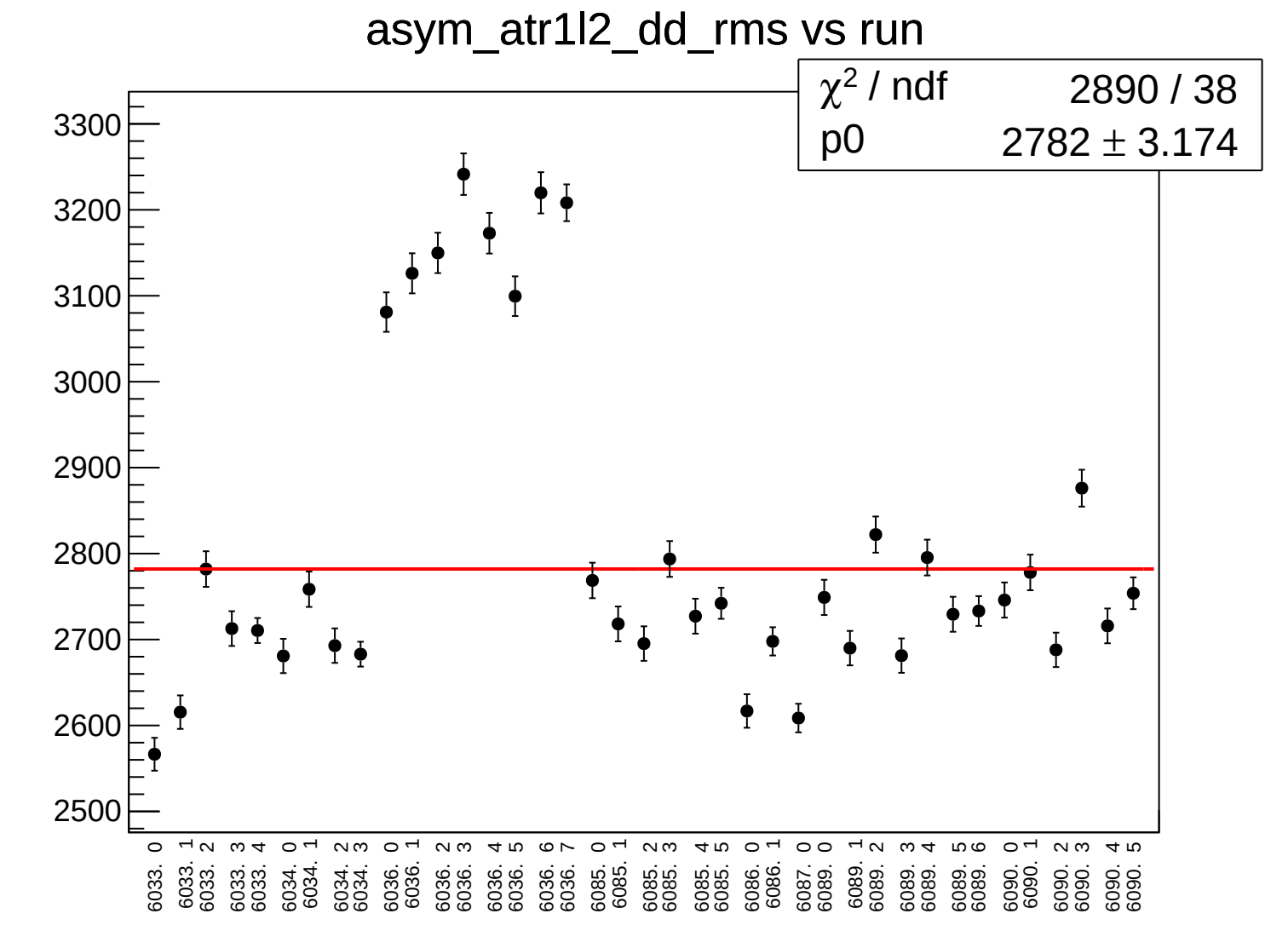

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 179.4 / 38
p0 1684 ± 1.918
1740
1720
1700
1680
1660
1640
1620
1600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

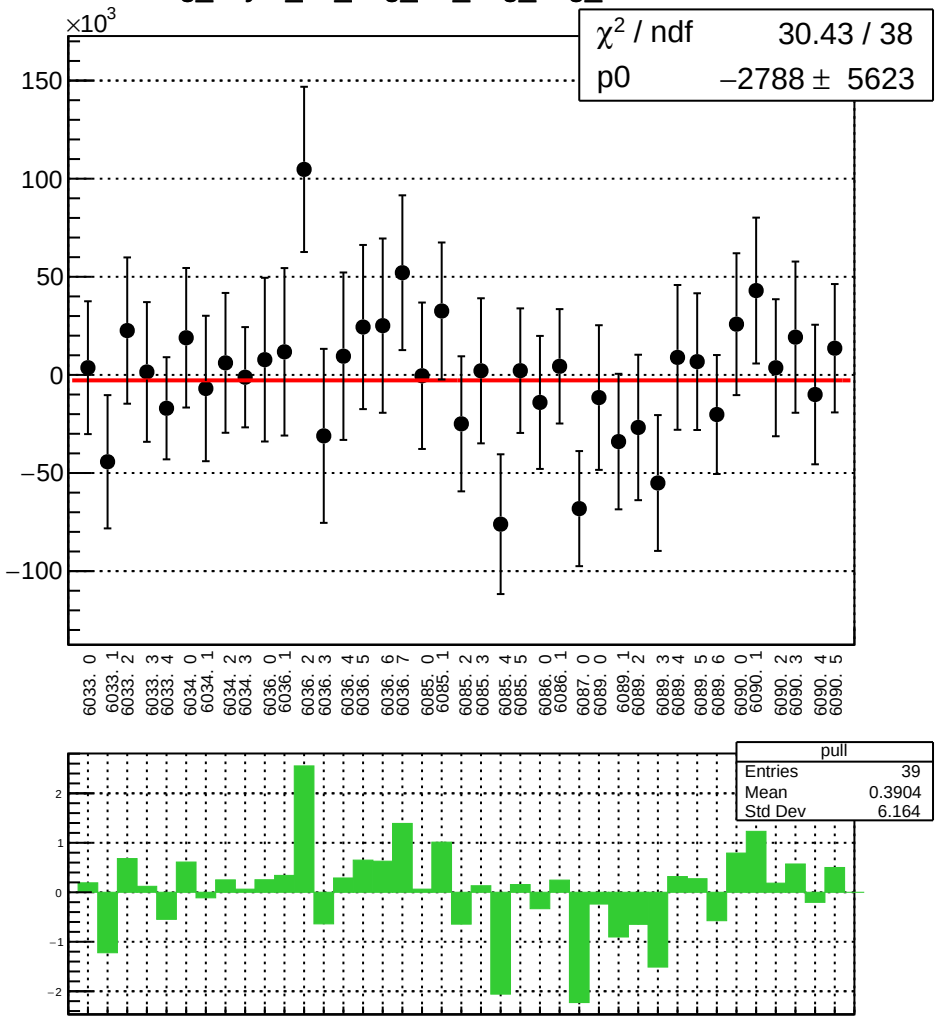

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 32.42 / 38
p0 1088 ± 3558
100
80
60
40
20
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −2.623
Std Dev 9.171
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.05547
Std Dev 0.91
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

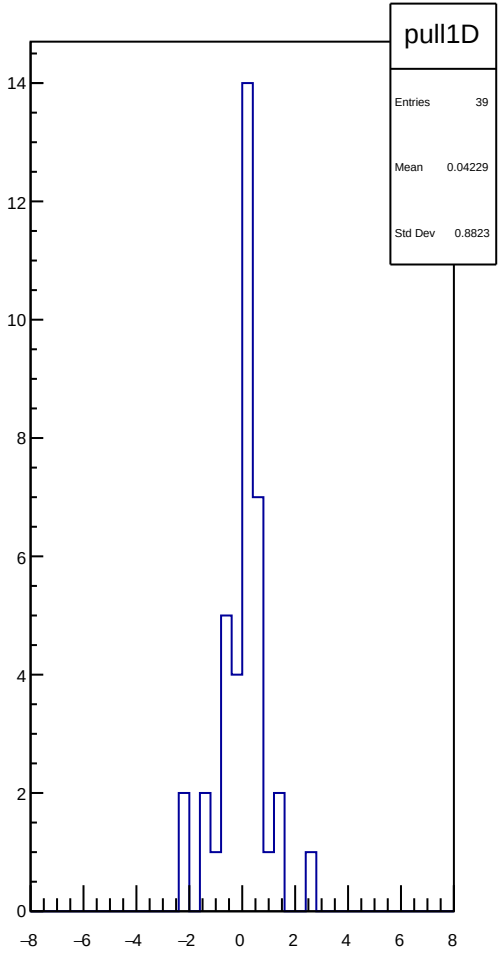

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 5919 / 38
p0 2201 ± 2.516
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

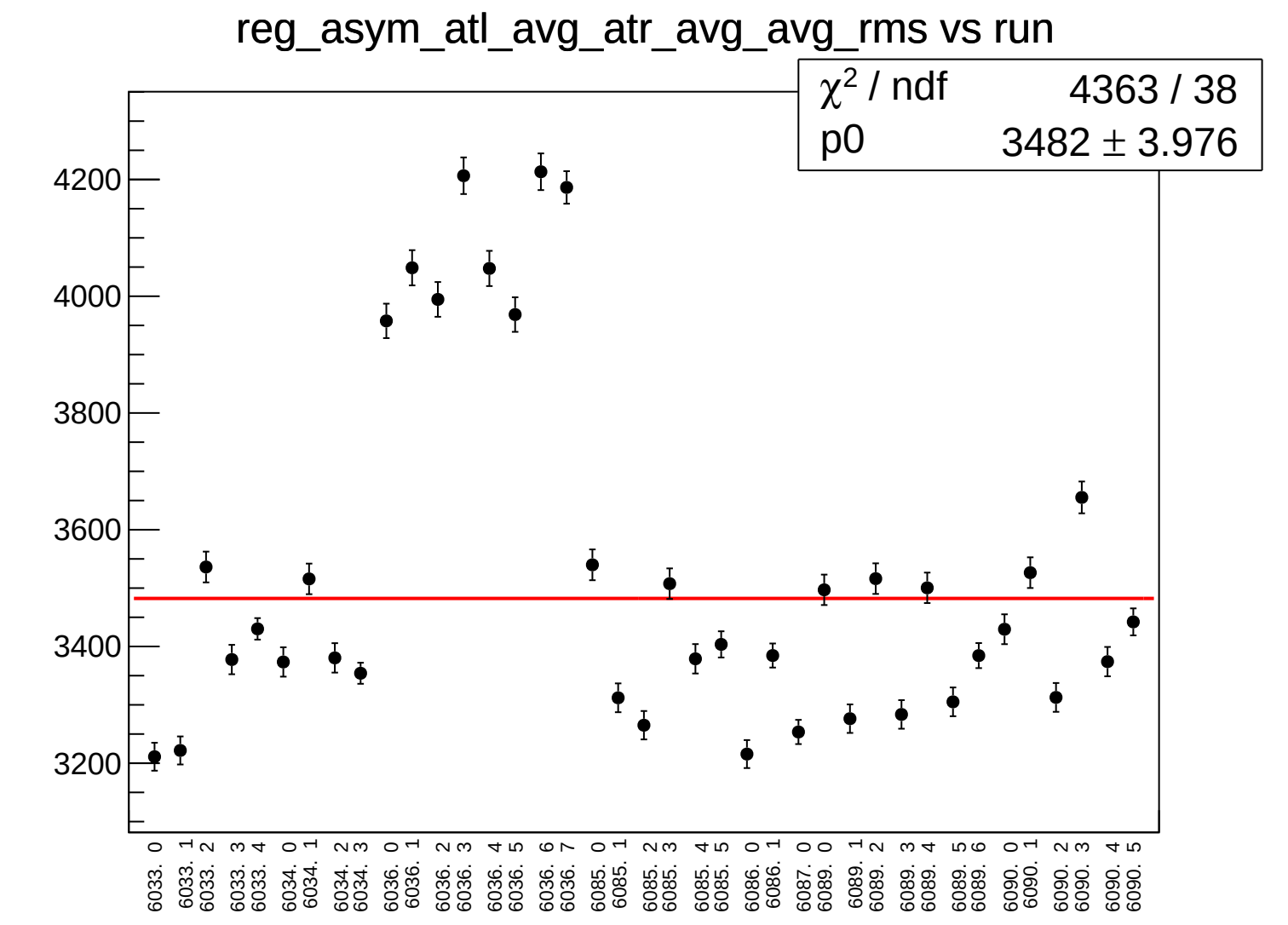

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 27.88 / 38
p0 −3605 ± 4488
pull
Entries 39
Mean −72.82
Std Dev 88.34

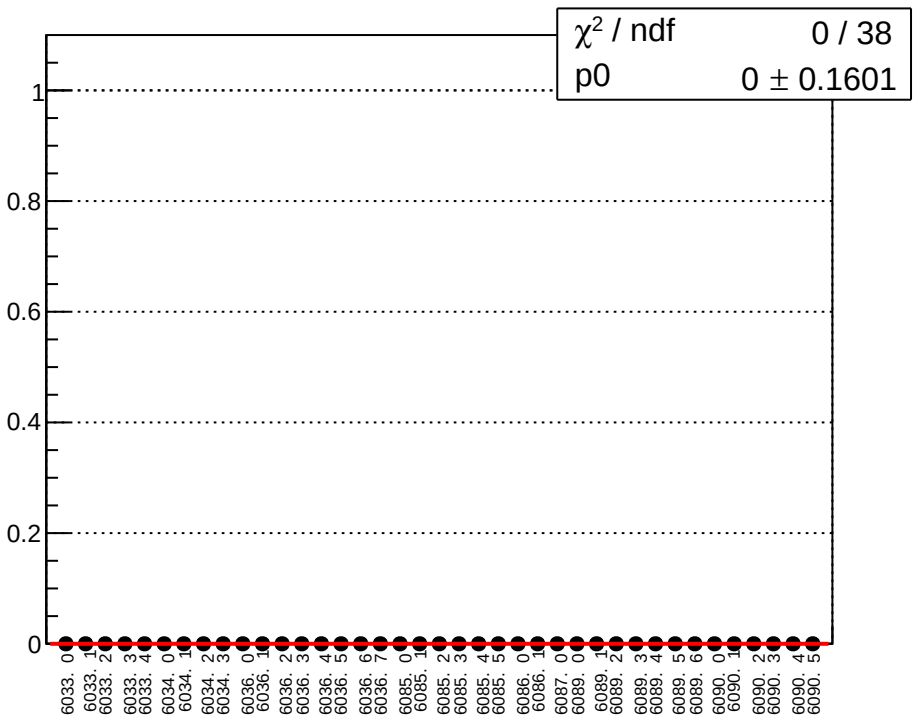

pull1D
Entries 39
Mean −0.02407
Std Dev 0.8451

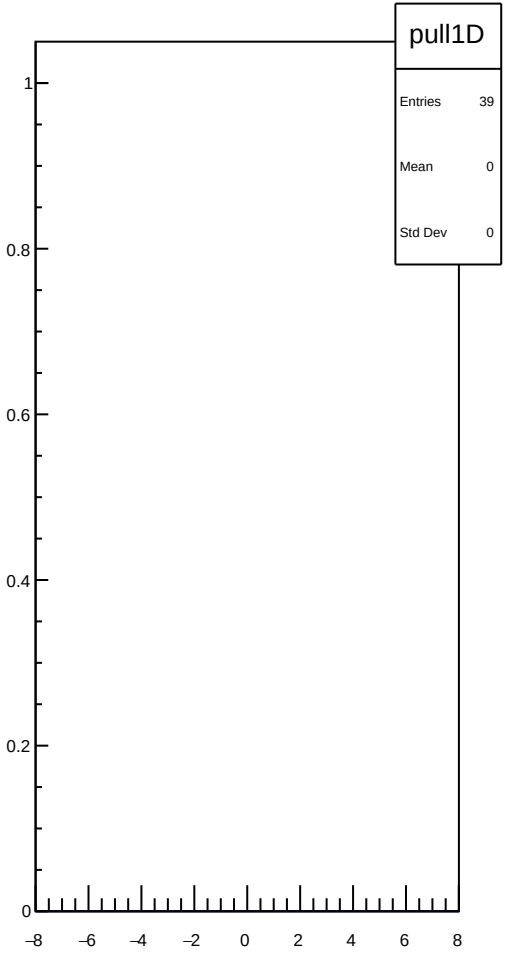

asym_atr1l2_dd_rms vs run
χ² / ndf 2890 / 38
p0 2782 ± 3.174
3300
3200
3100
3000
2900
2800
2700
2600
2500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

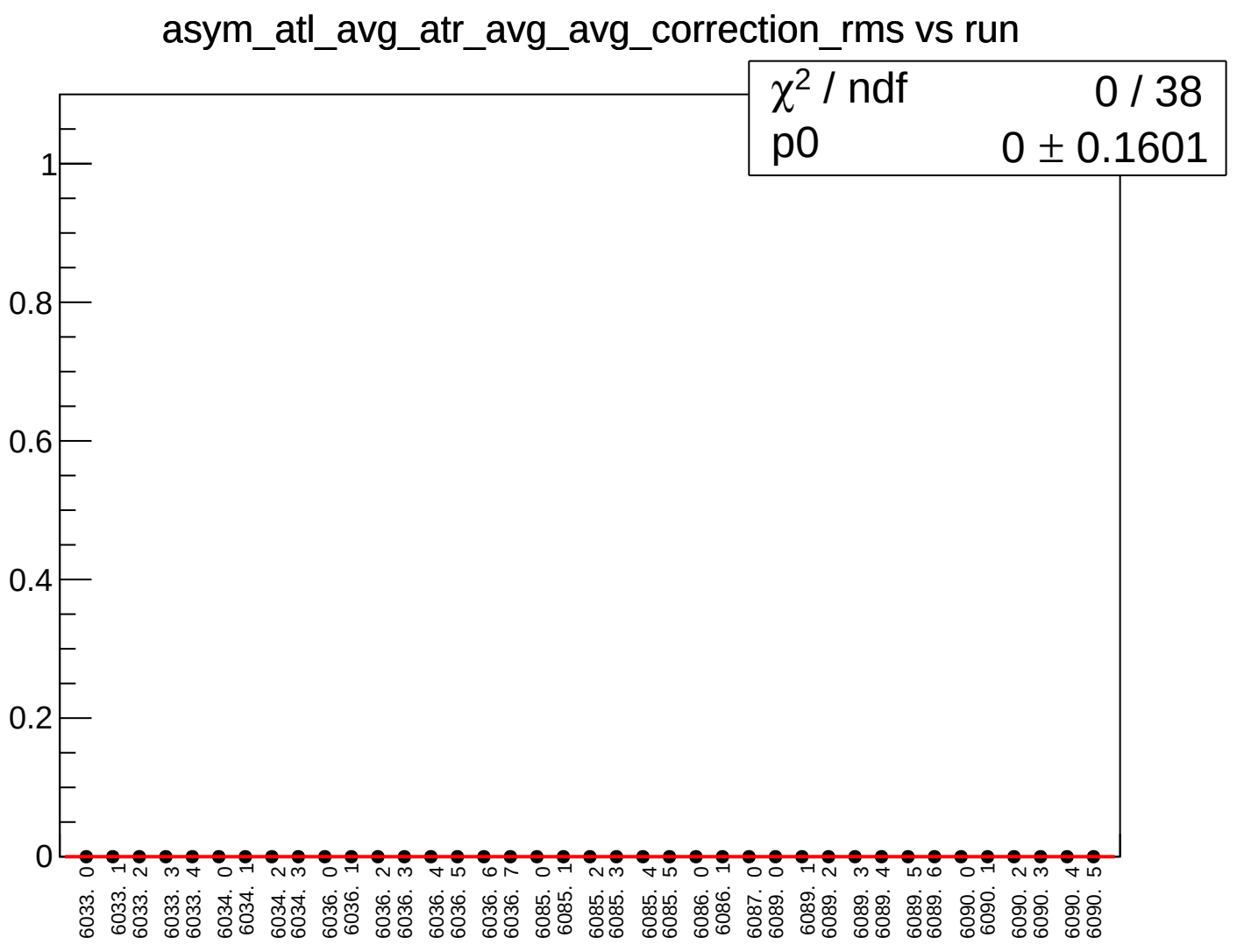

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 30.43 / 38
p0 −2788 ± 5623
150
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 0.3904
Std Dev 6.164
2
1
0
−1
−2

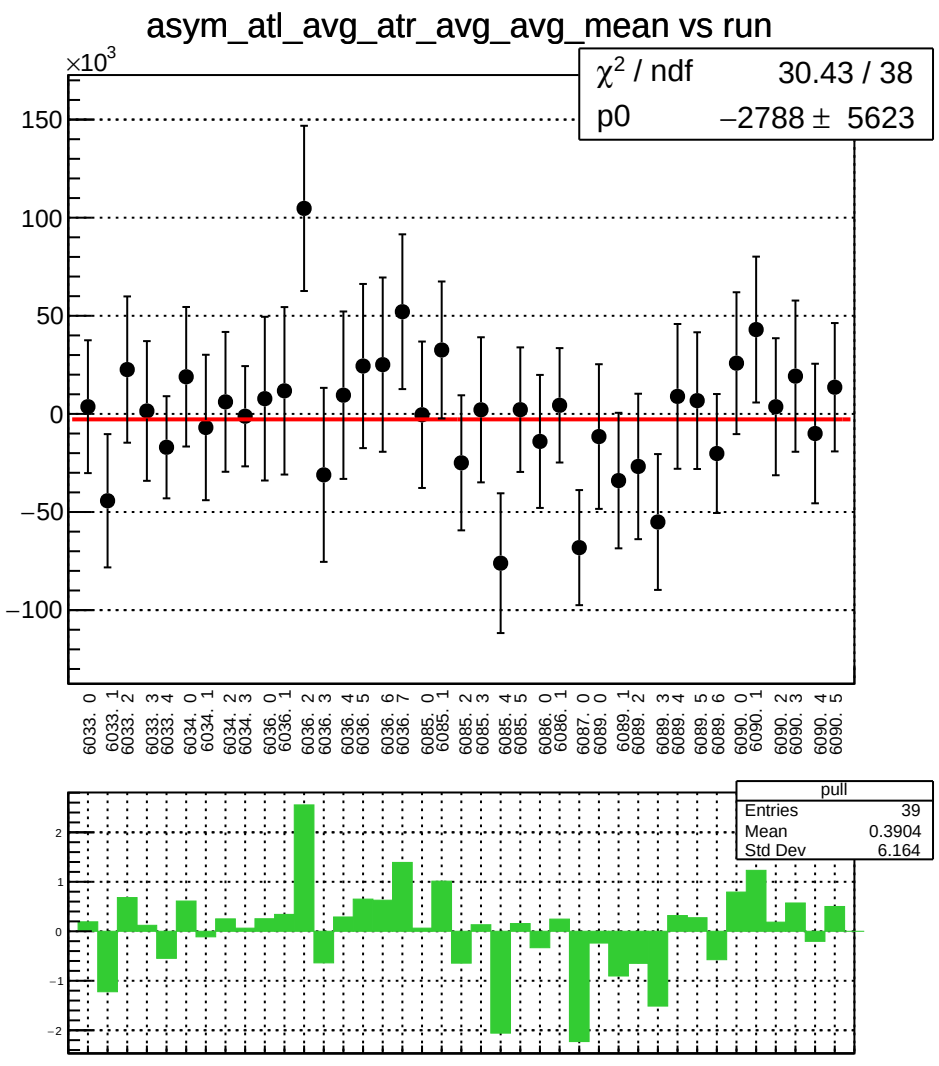

pull1D
Entries 39
Mean 0.04229
Std Dev 0.8823
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

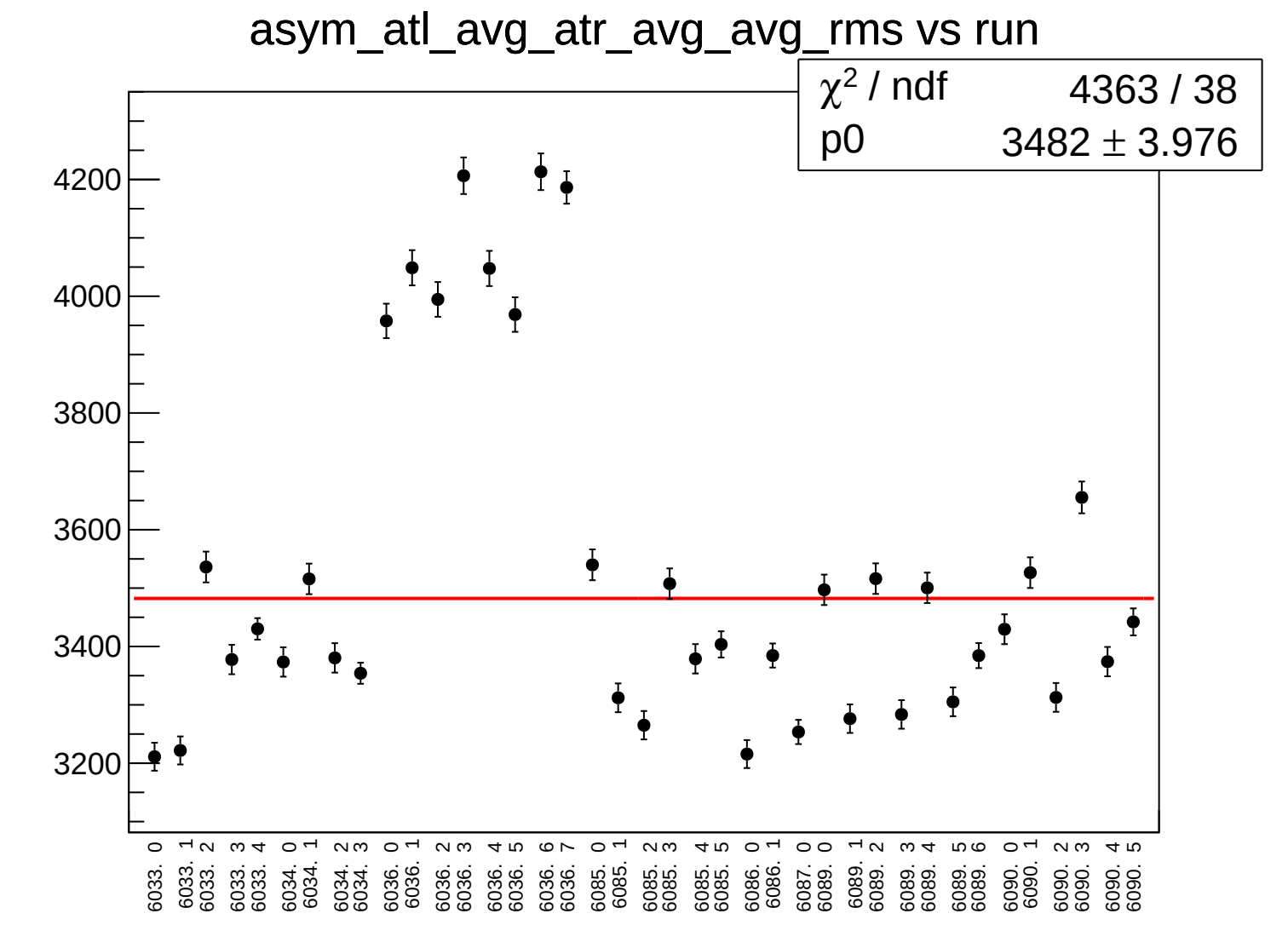

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4363 / 38
p0 3482 ± 3.976
4200
4000
3800
3600
3400
3200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 30.43 / 38
p0 −2788 ± 5623
150
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 0.3904
Std Dev 6.164
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.04229
Std Dev 0.8823
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4363 / 38
p0 3482 ± 3.976
4200
4000
3800
3600
3400
3200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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6090. 2
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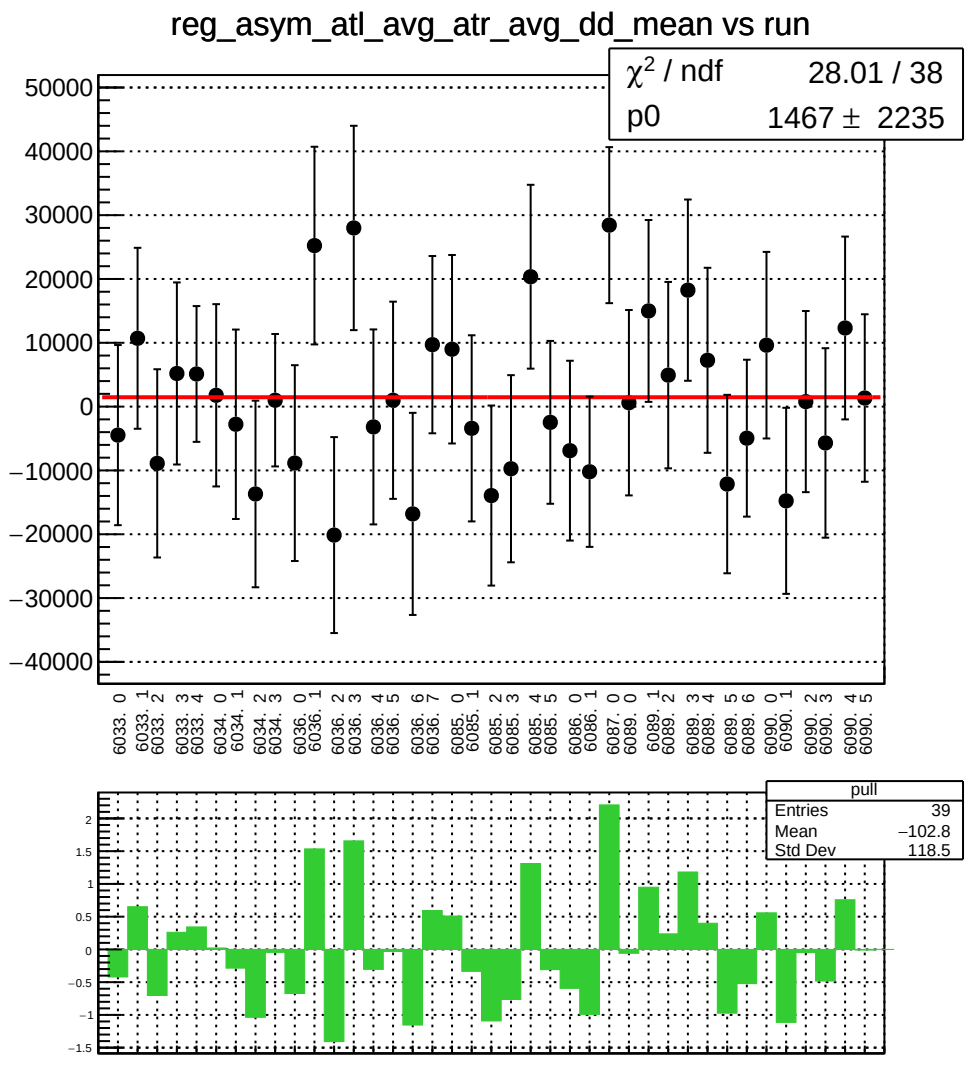
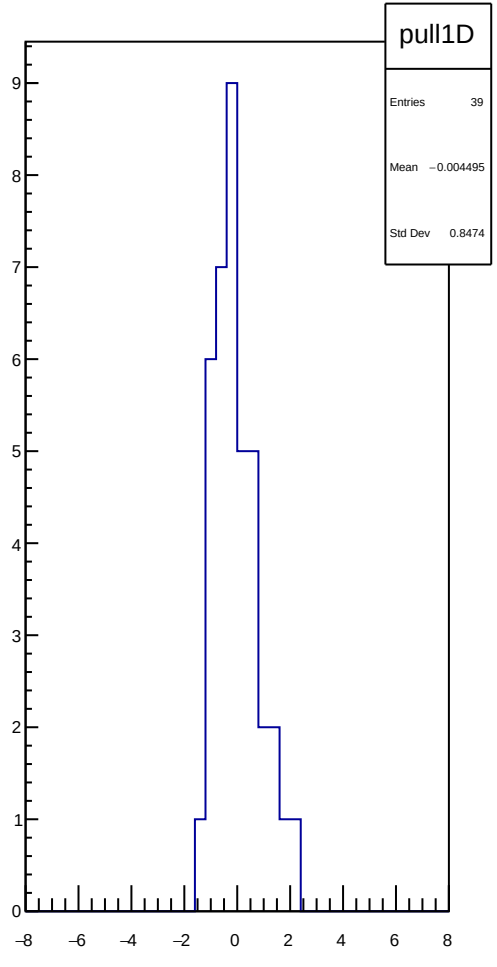
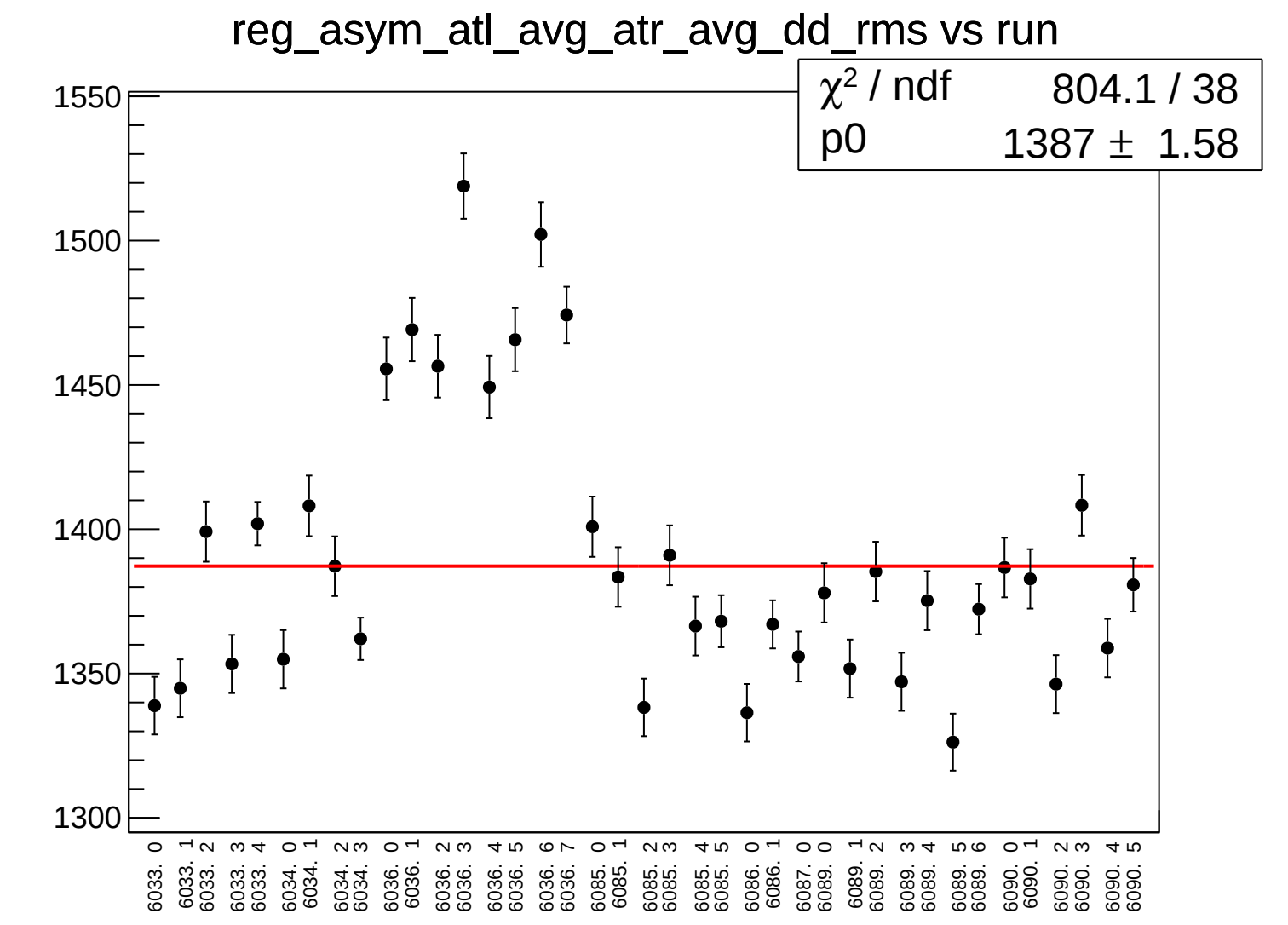
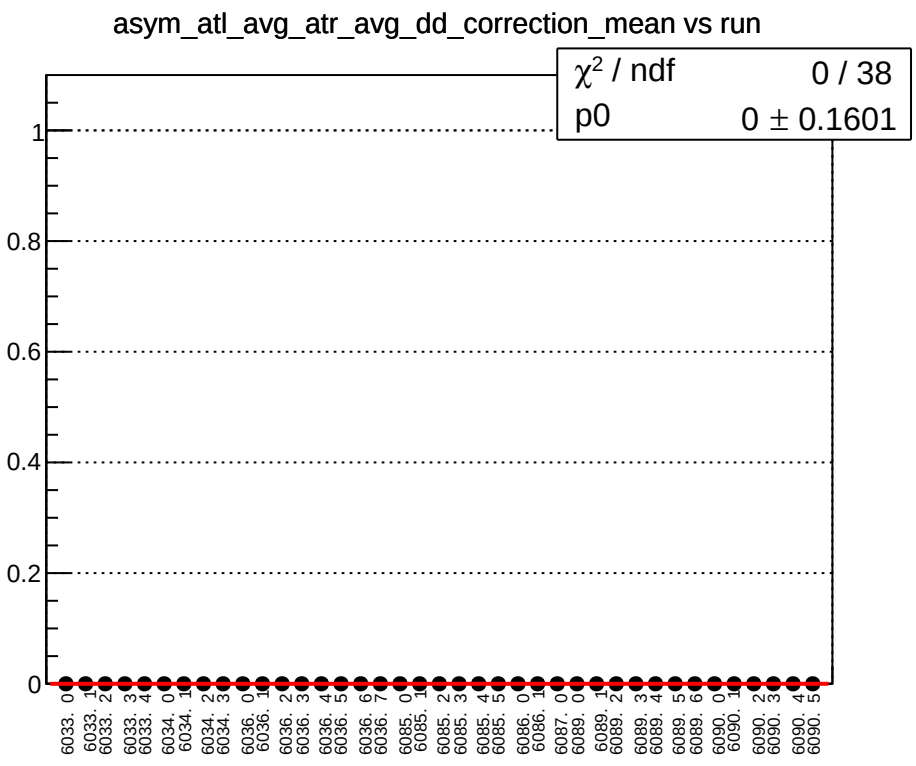
6090. 4
6090. 5


reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 28.01 / 38
p0 1467 ± 2235
pull
Entries 39
Mean −102.8
Std Dev 118.5


pull1D
Entries 39
Mean −0.004495
Std Dev 0.8474


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 804.1 / 38
p0 1387 ± 1.58
1550
1500
1450
1400
1350
1300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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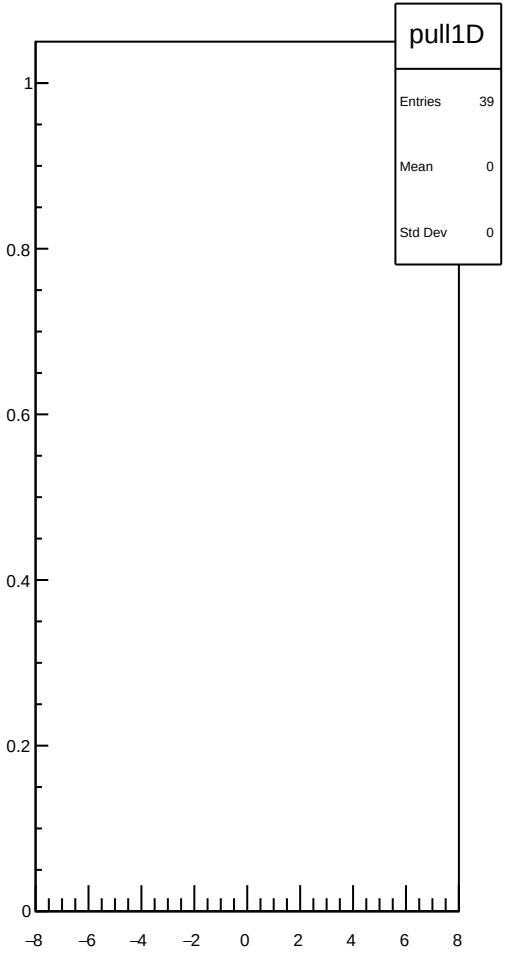
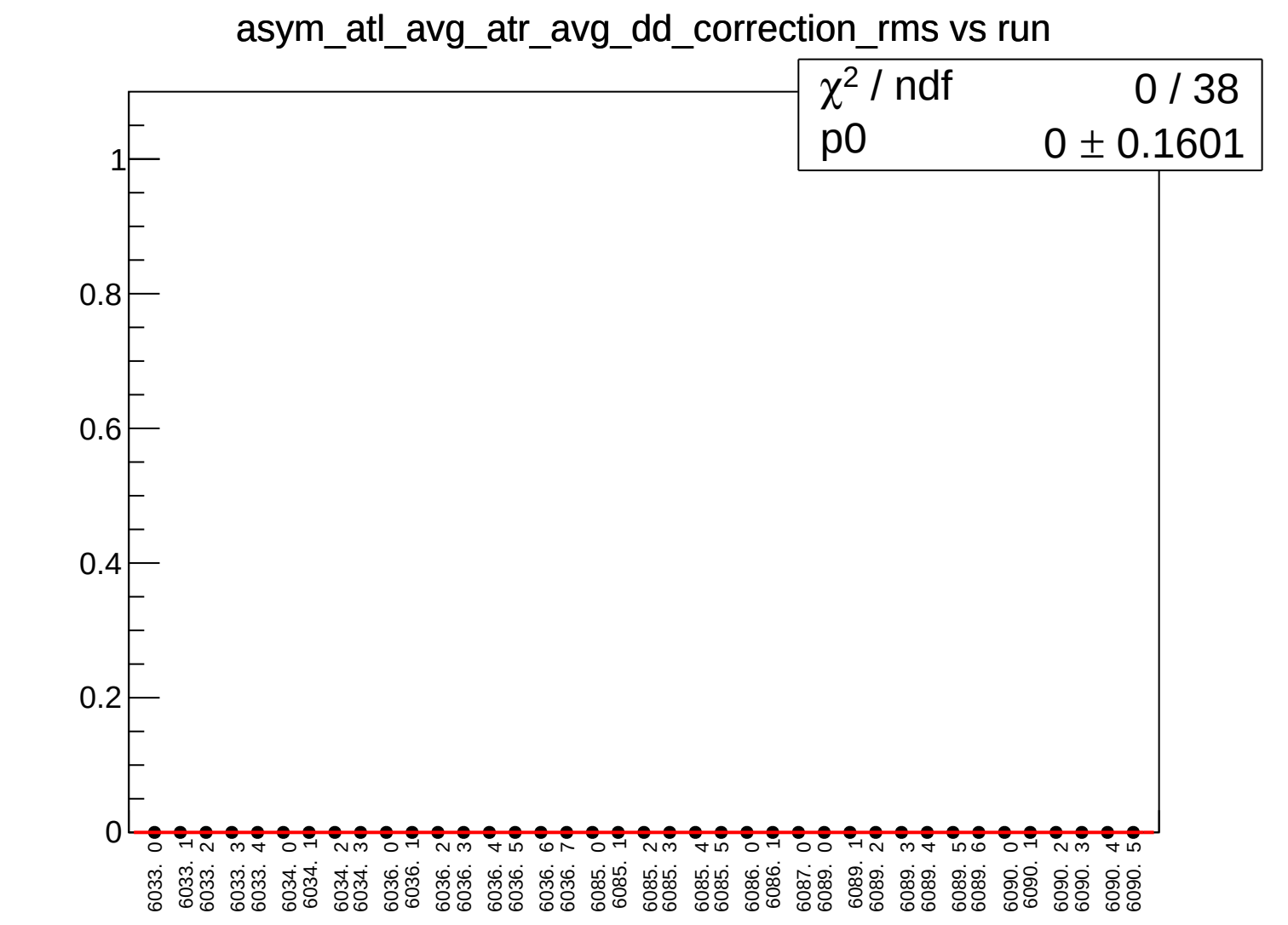
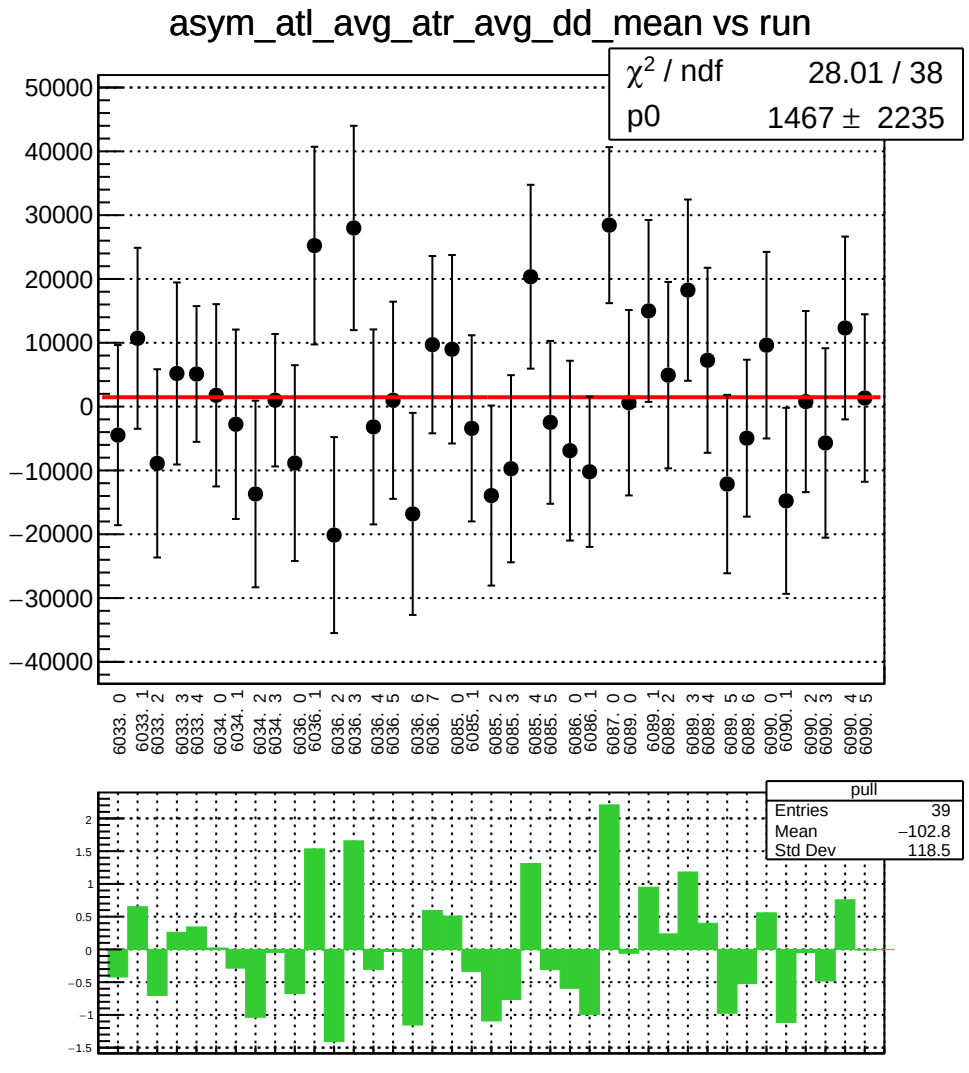
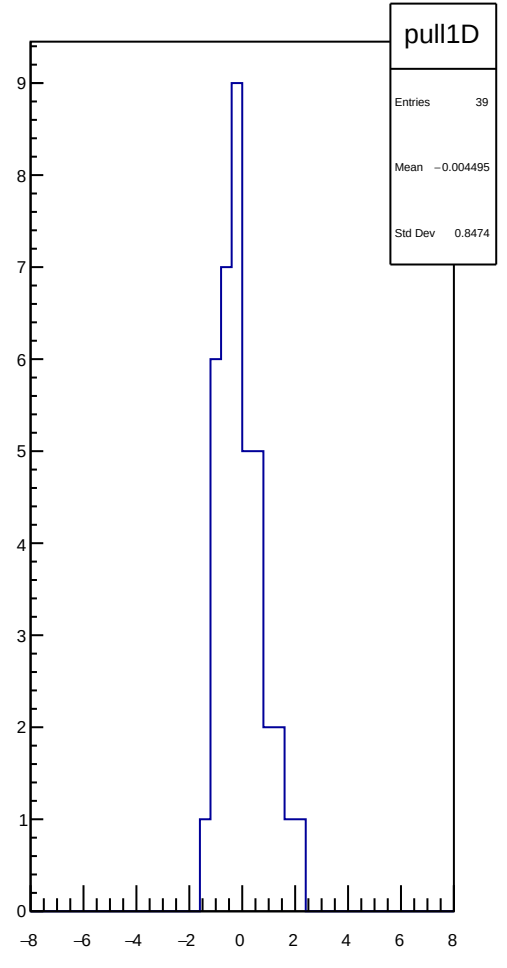
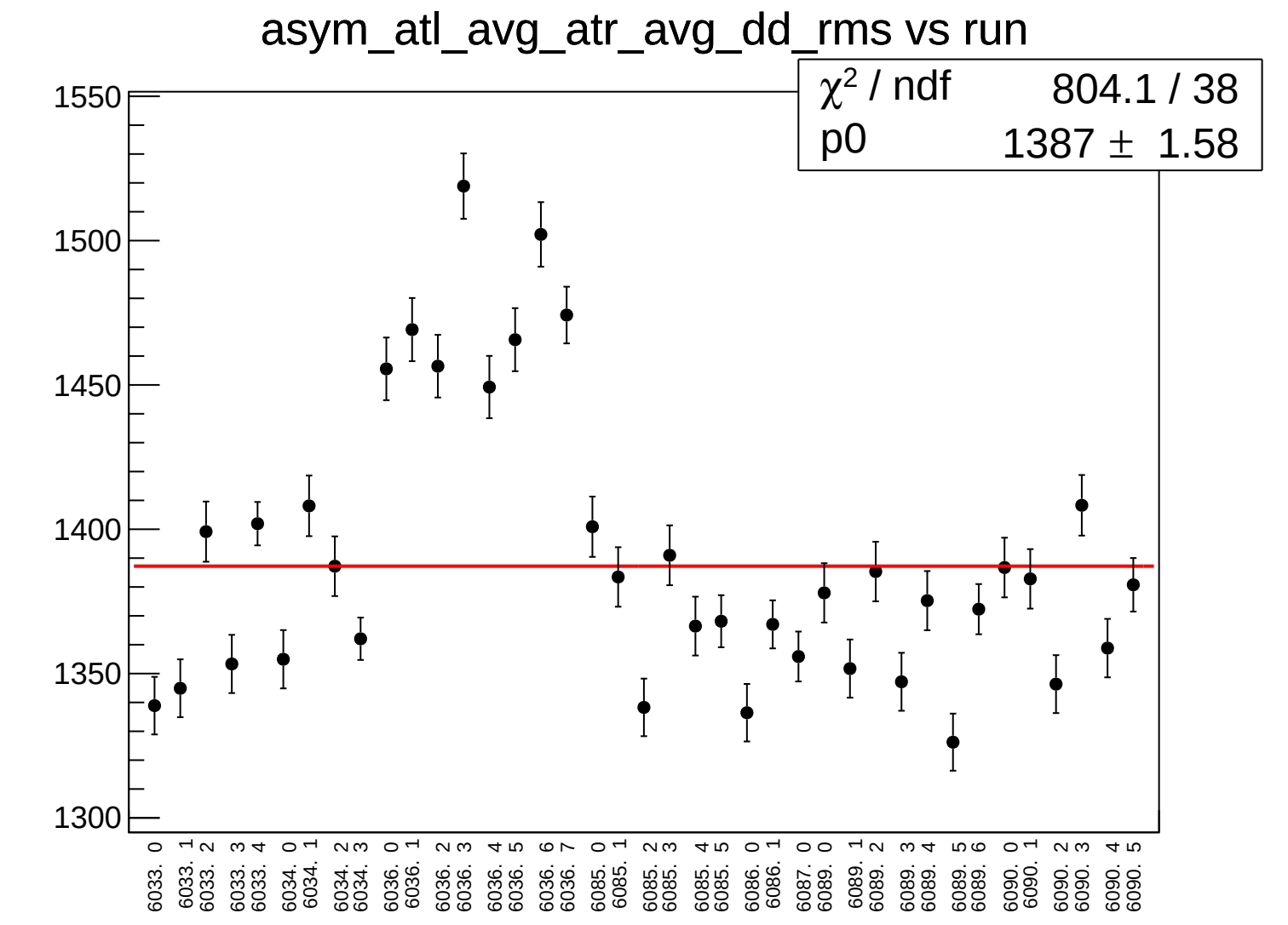
6090. 2
6090. 3
6090. 4
6090. 5

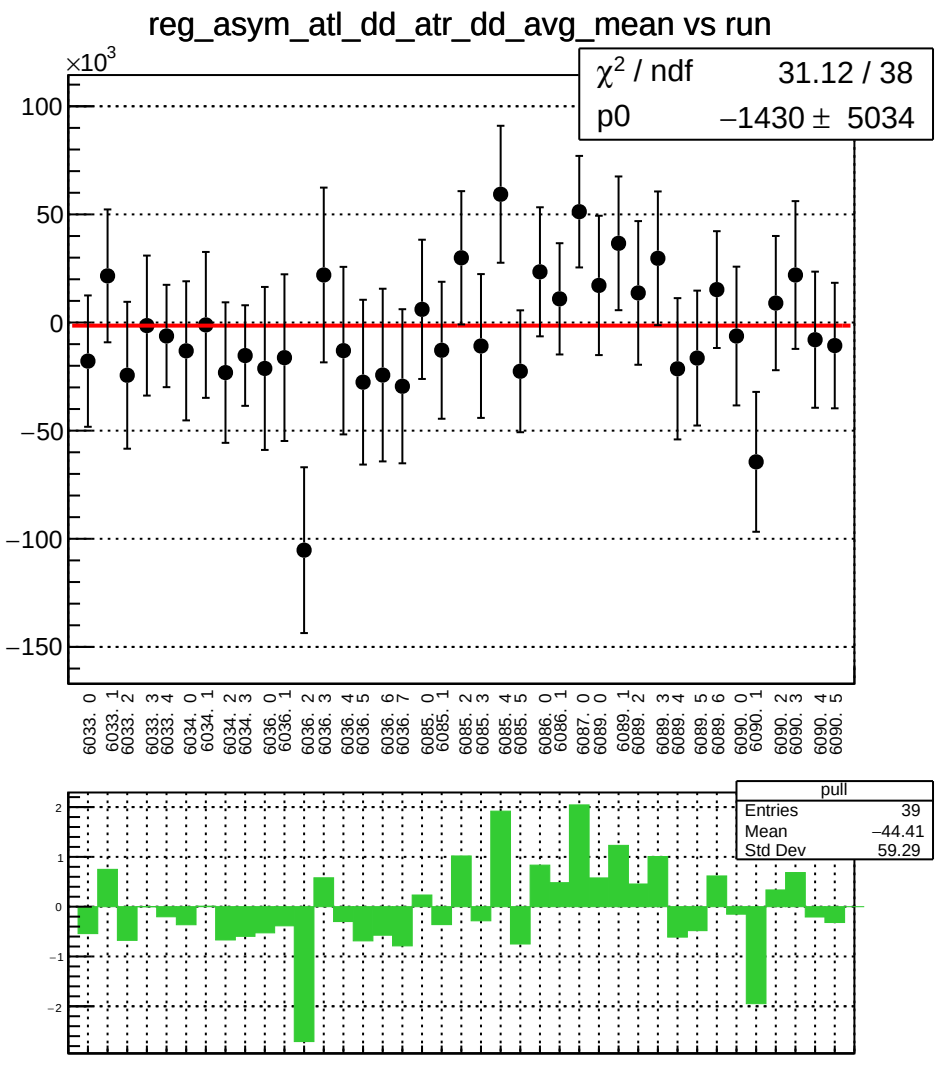

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

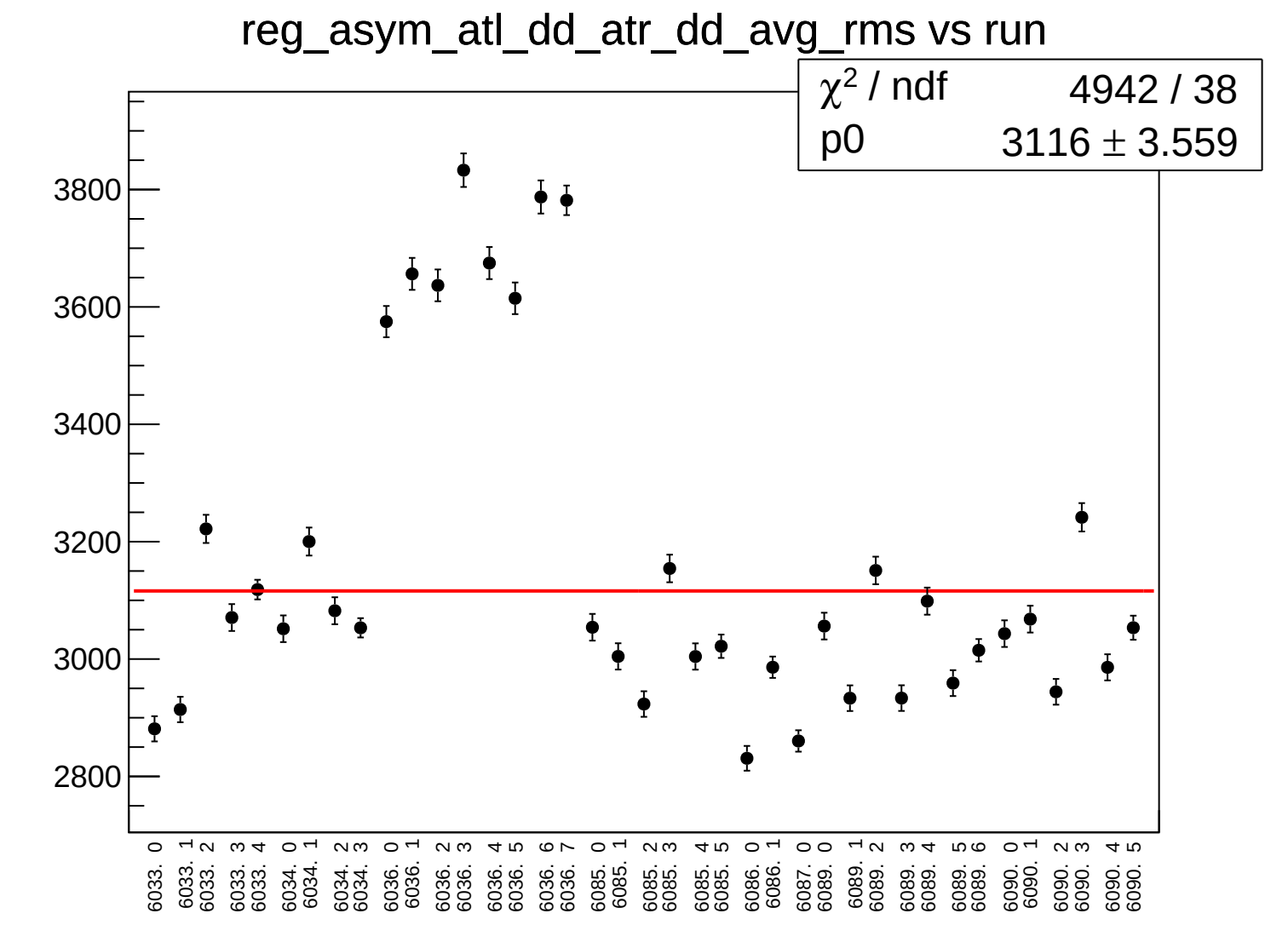

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

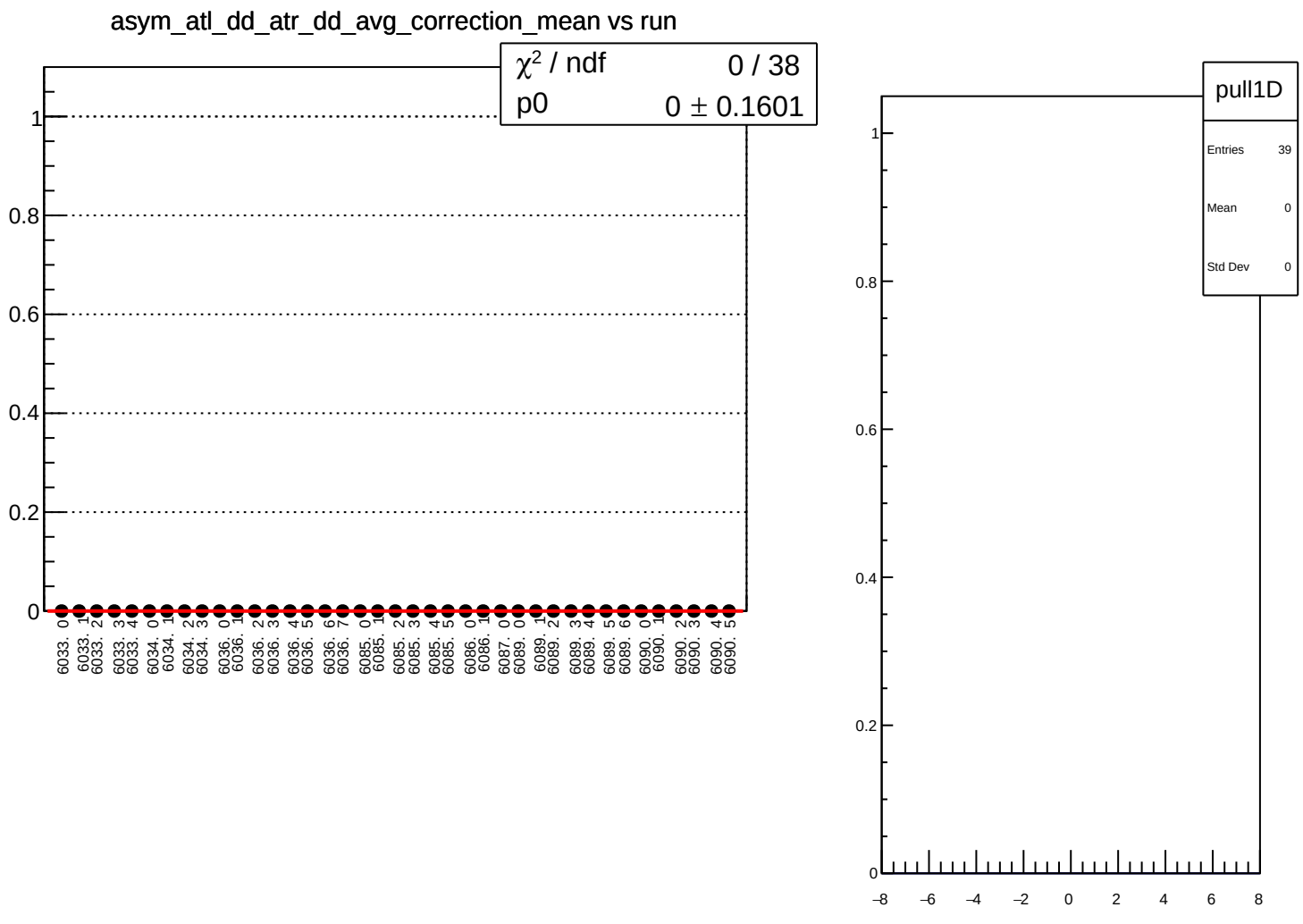

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 28.01 / 38
p0 1467 ± 2235
pull
Entries 39
Mean −102.8
Std Dev 118.5

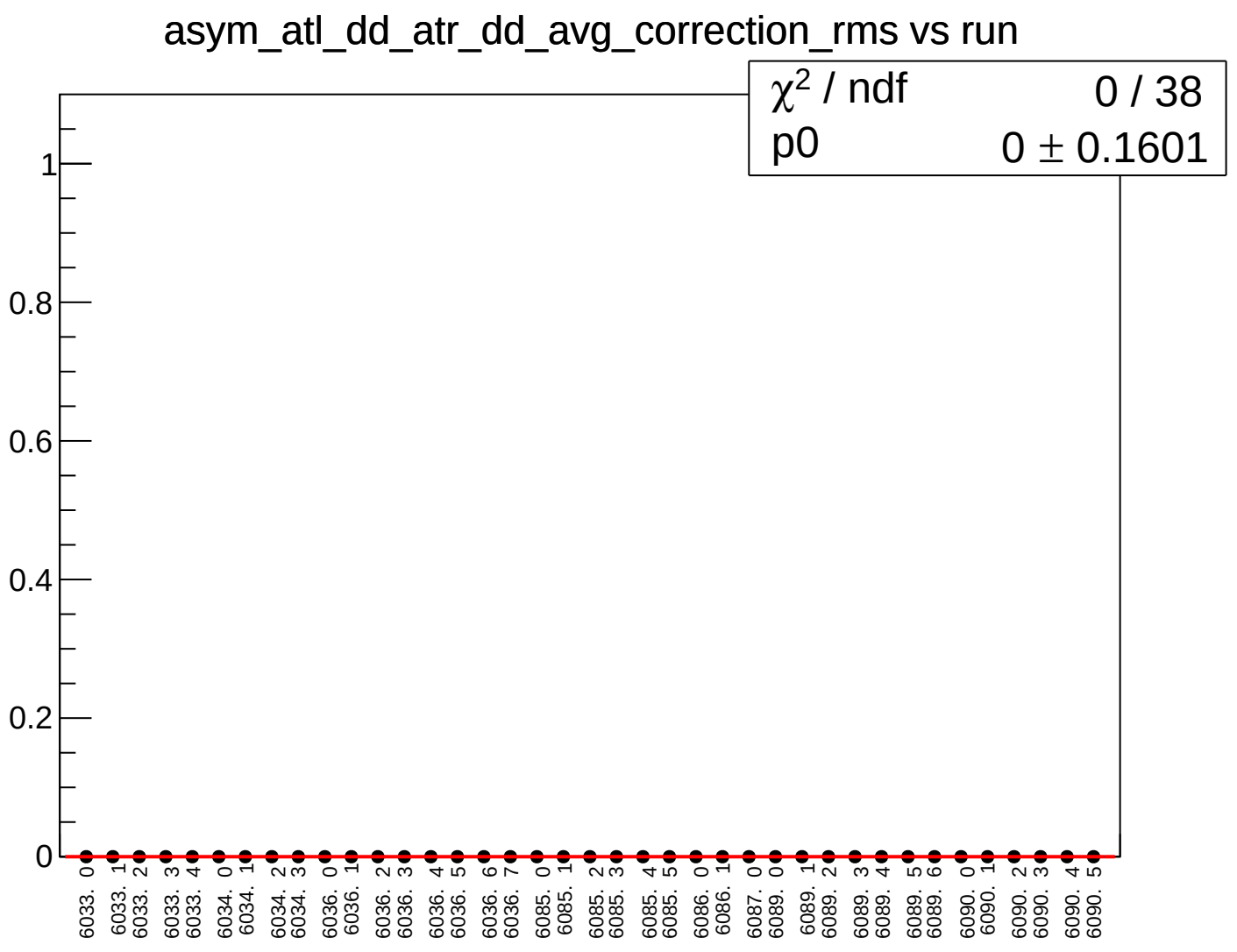

pull1D
Entries 39
Mean −0.004495
Std Dev 0.8474


asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 804.1 / 38
p0 1387 ± 1.58
1550
1500
1450
1400
1350
1300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 31.12 / 38
p0 −1430 ± 5034
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −44.41
Std Dev 59.29
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03439
Std Dev 0.8927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4942 / 38
p0 3116 ± 3.559
3800
3600
3400
3200
3000
2800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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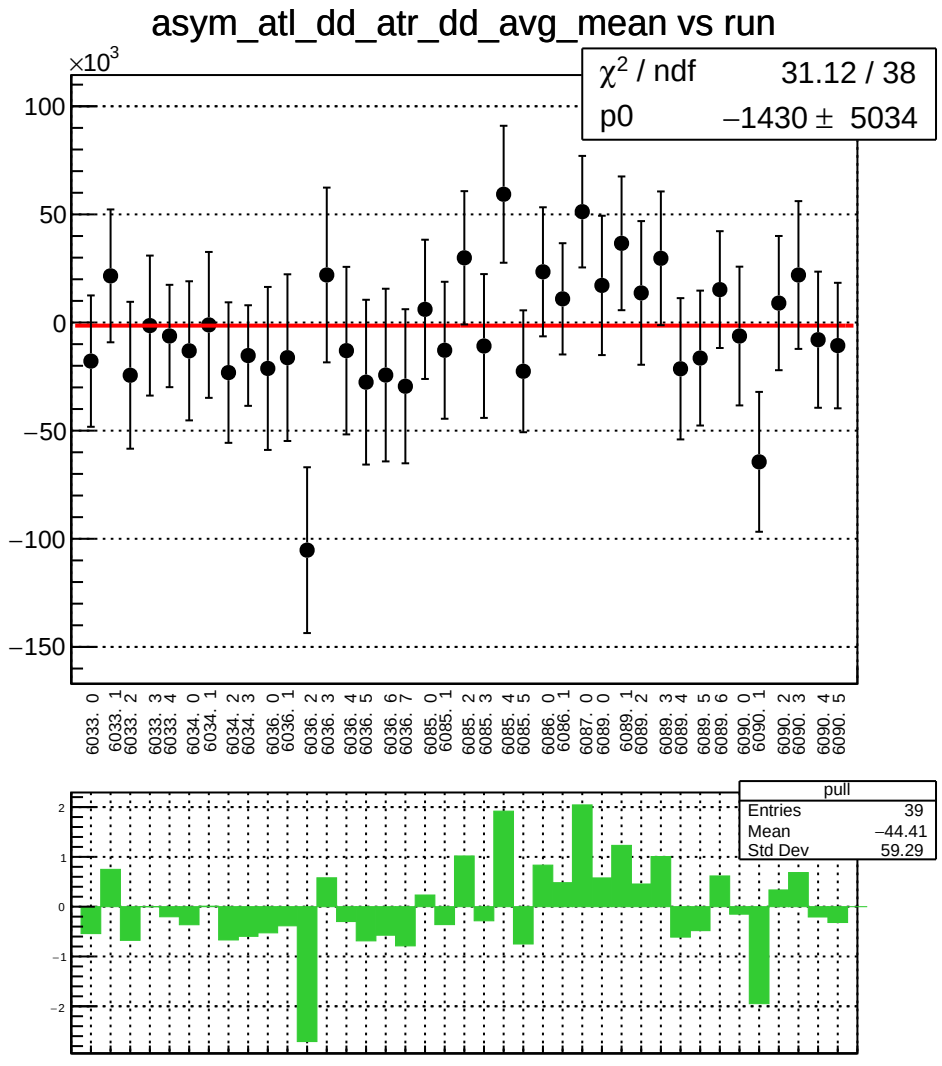
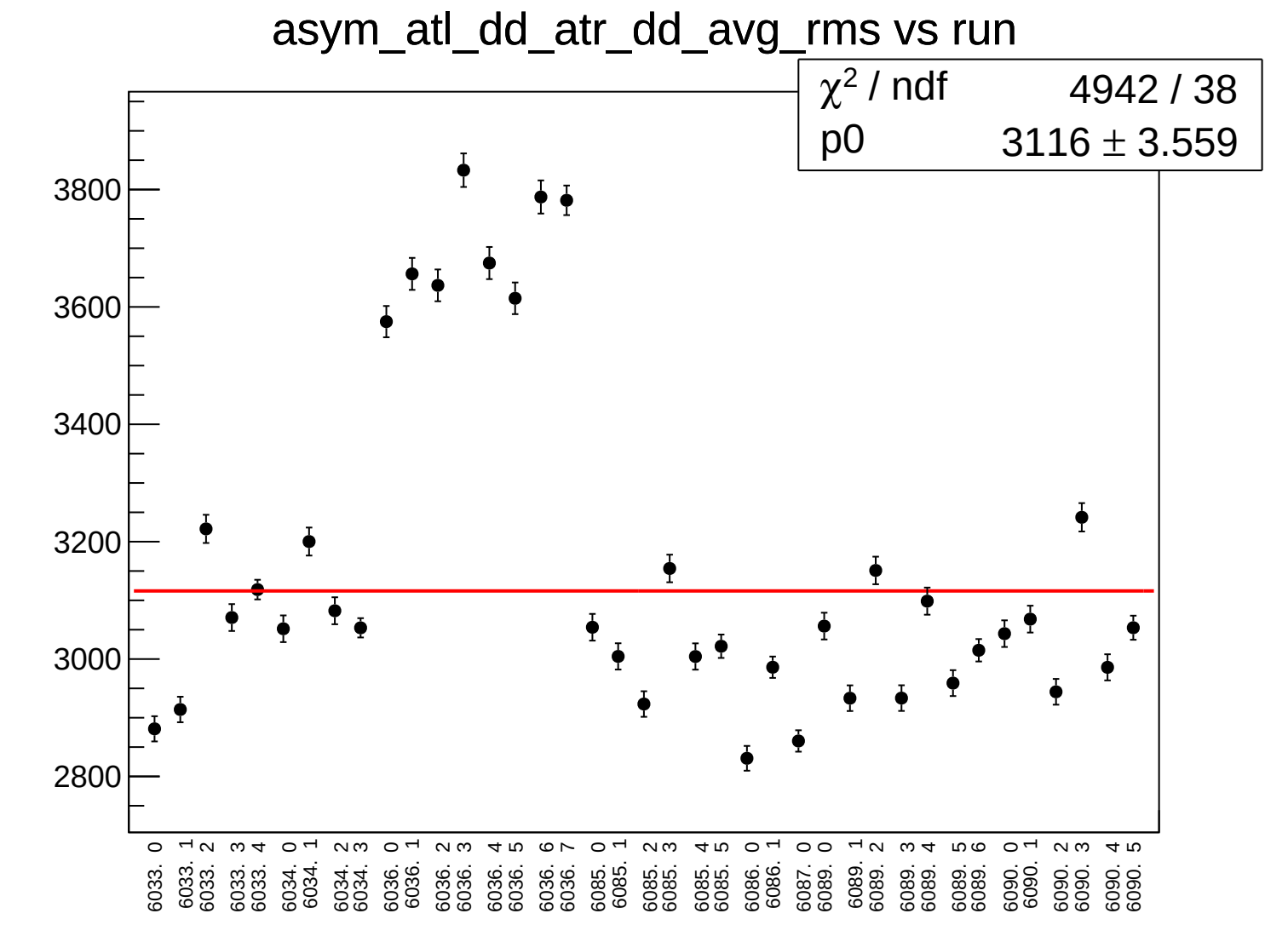
6090. 4
6090. 5


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 31.12 / 38
p0 −1430 ± 5034
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −44.41
Std Dev 59.29
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03439
Std Dev 0.8927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4942 / 38
p0 3116 ± 3.559
3800
3600
3400
3200
3000
2800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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6089. 6
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6090. 2
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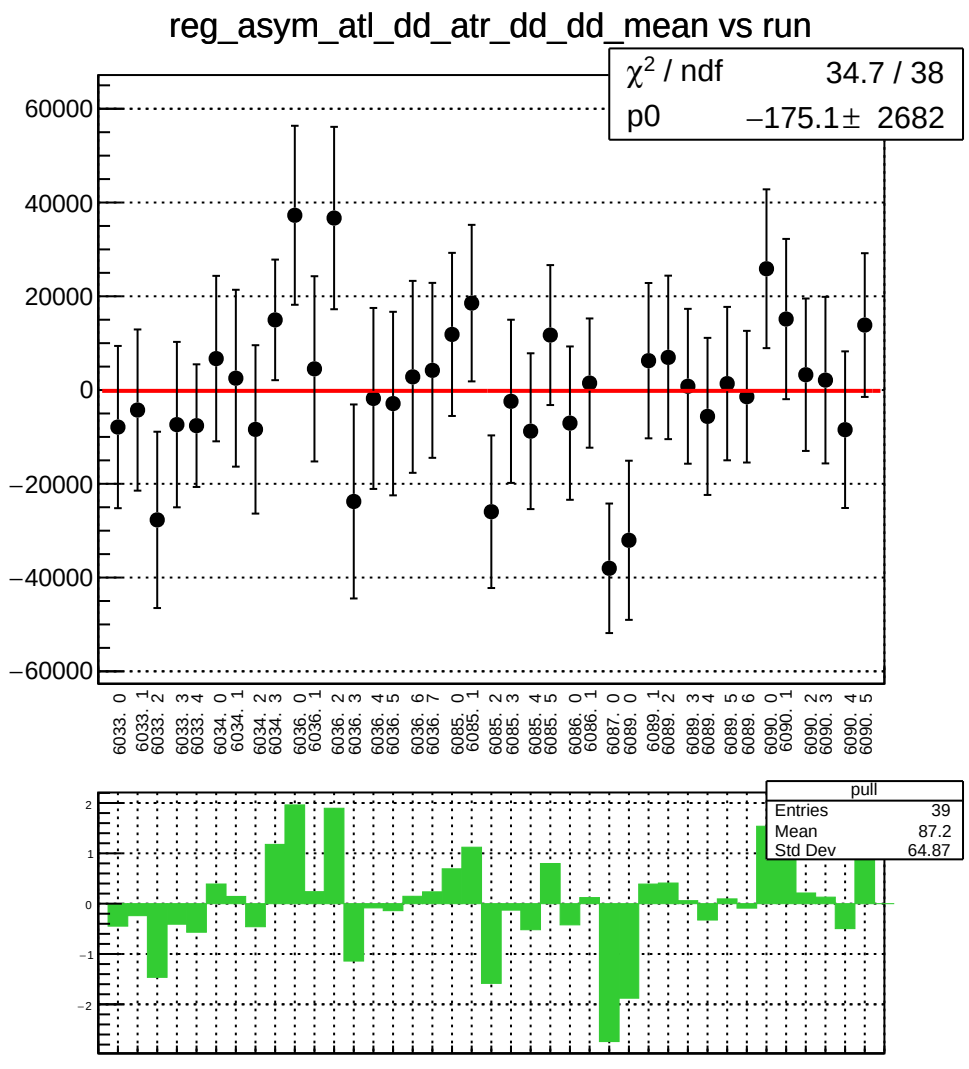
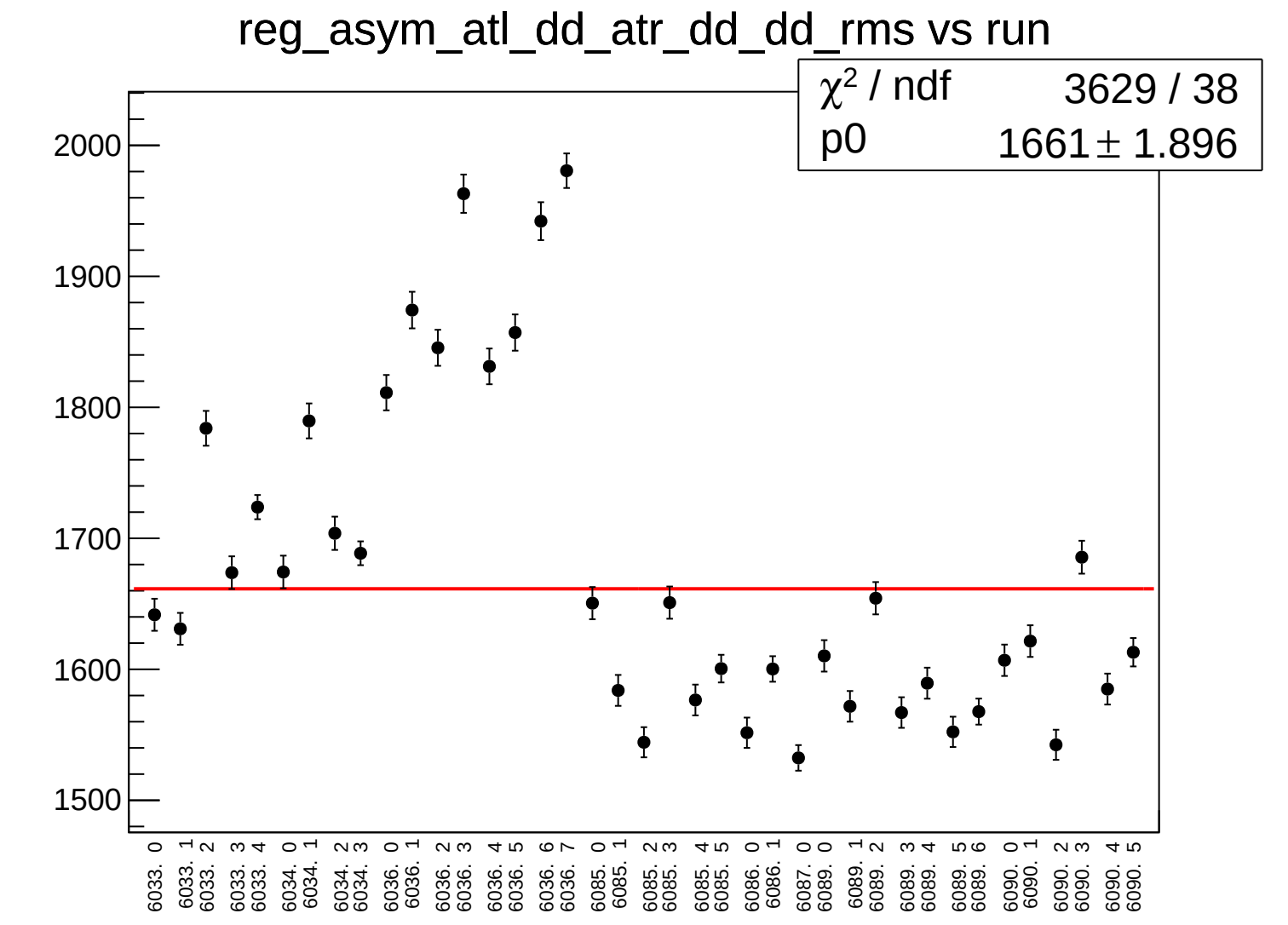
6090. 4
6090. 5


reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.7 / 38
p0 −175.1± 2682
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 87.2
Std Dev 64.87
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01127
Std Dev 0.9432
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 3629 / 38
p0 1661 ± 1.896
2000
1900
1800
1700
1600
1500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
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6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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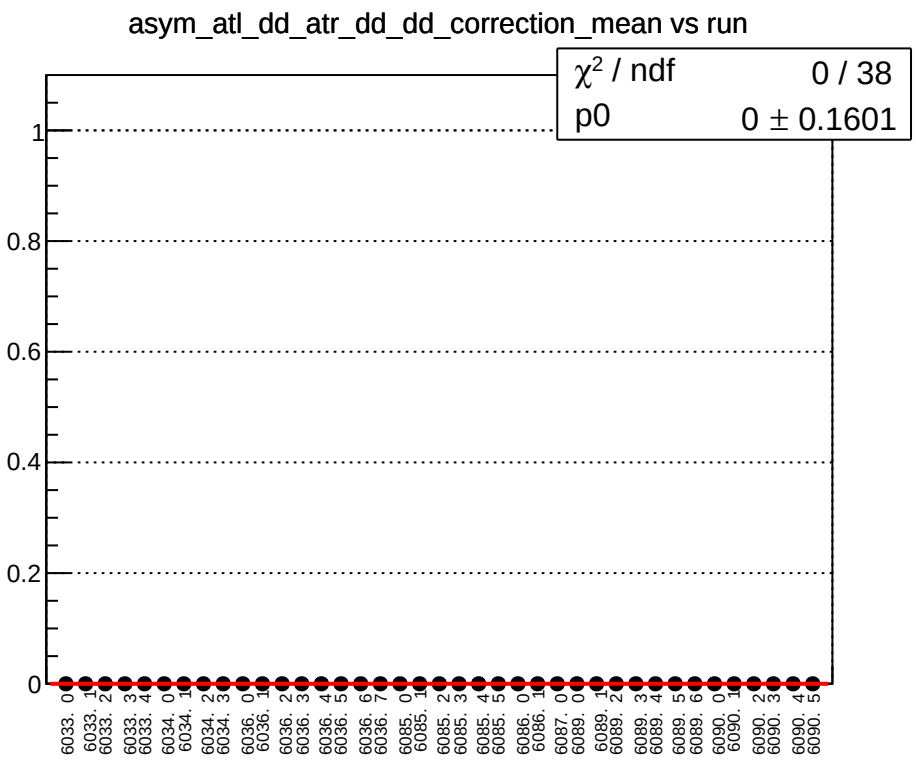
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
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6085. 0
6085. 1
6085. 2
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6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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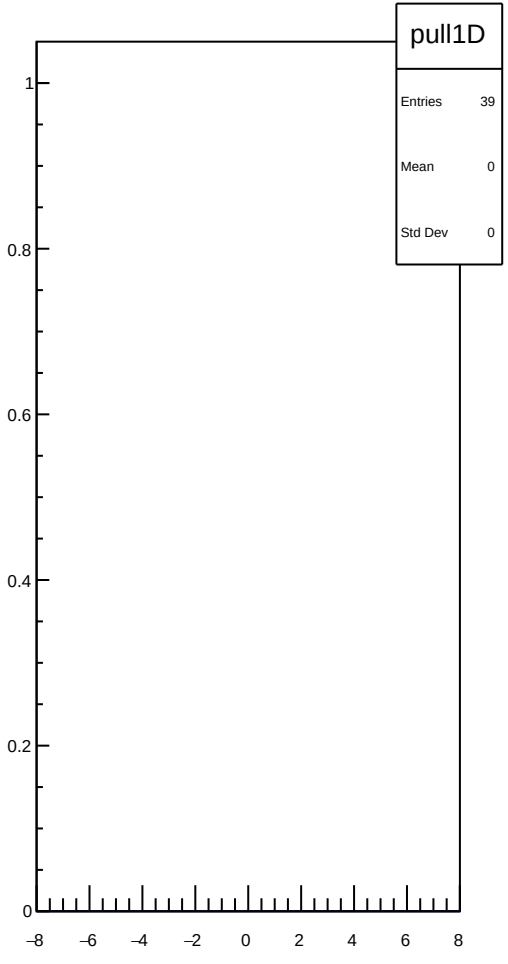
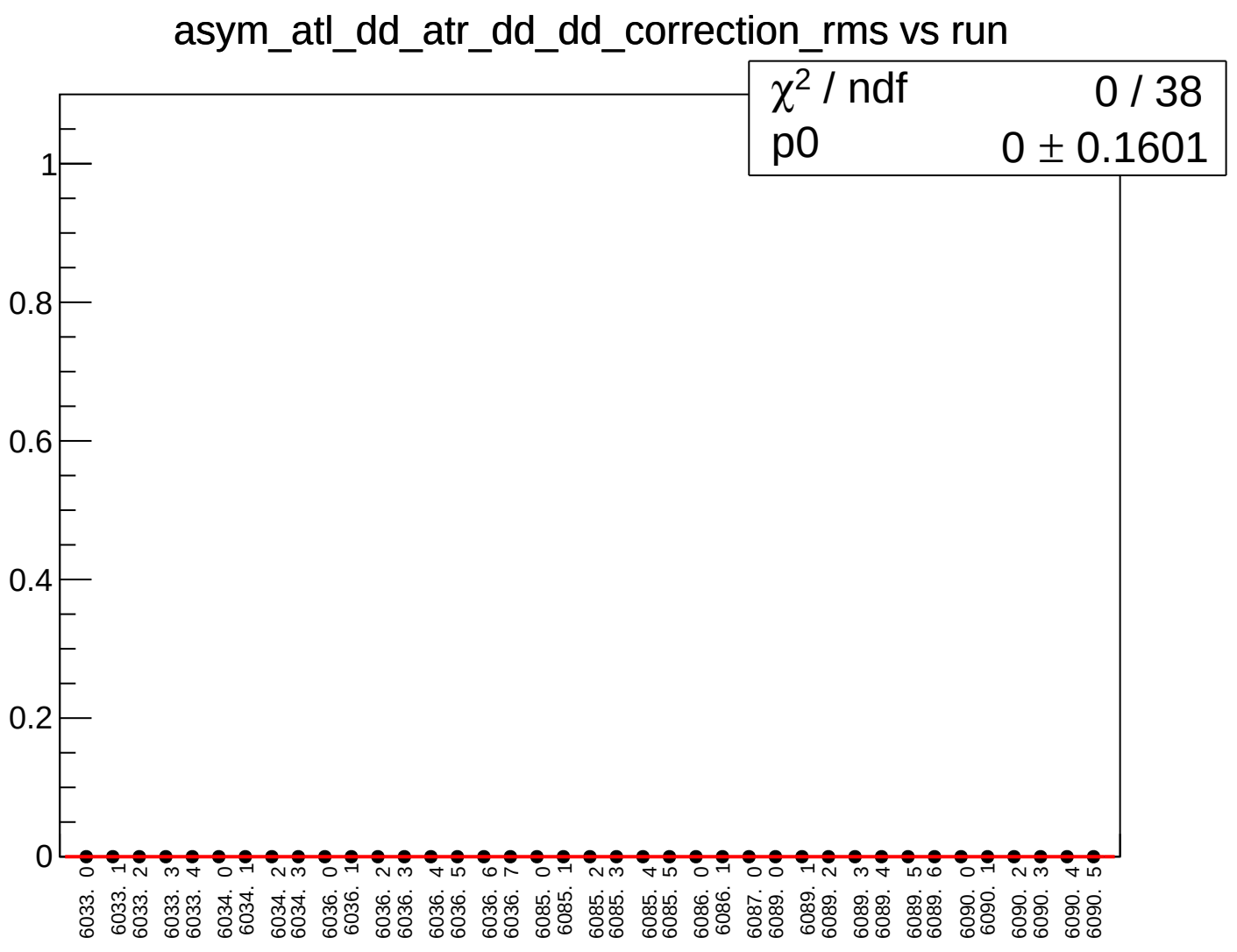
6090. 4
6090. 5


pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
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6036. 4
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6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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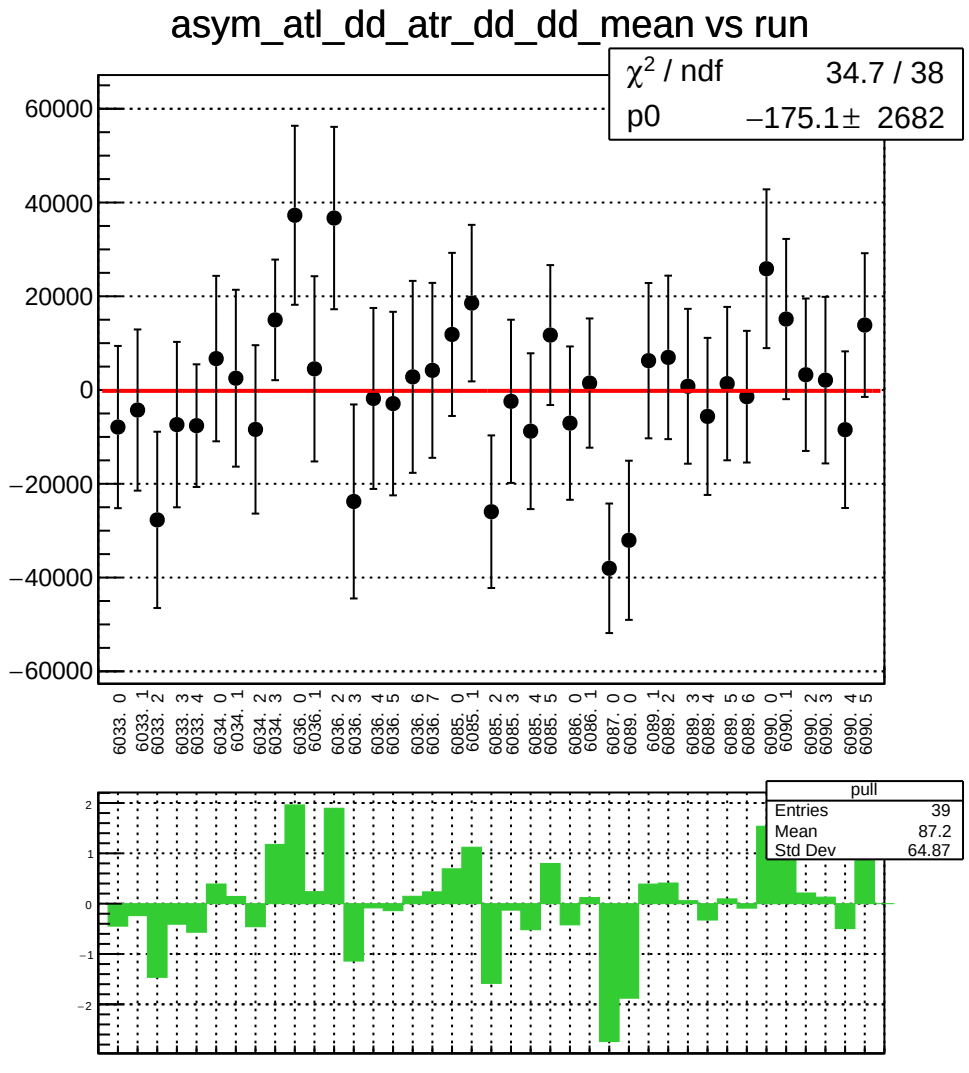
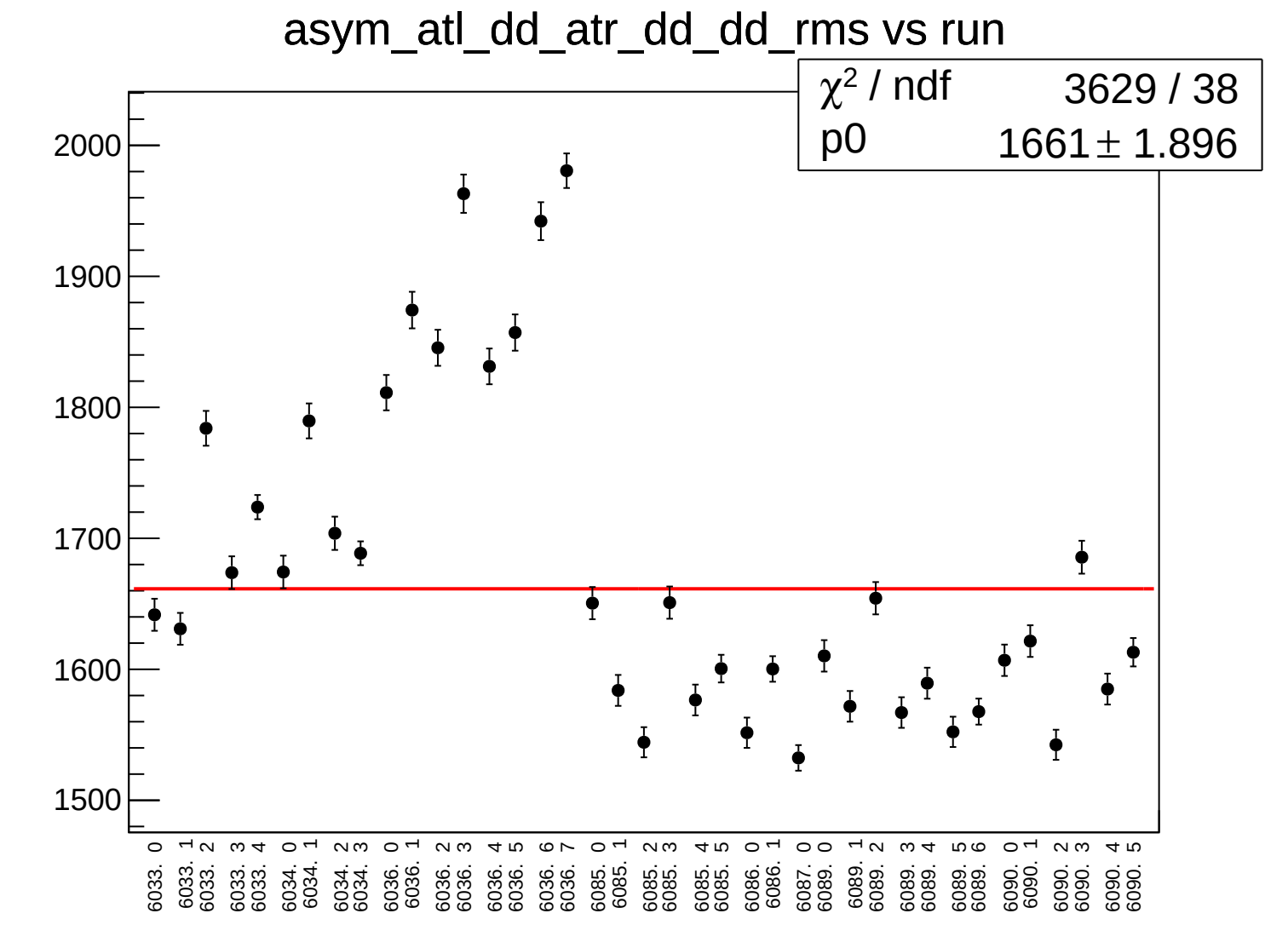
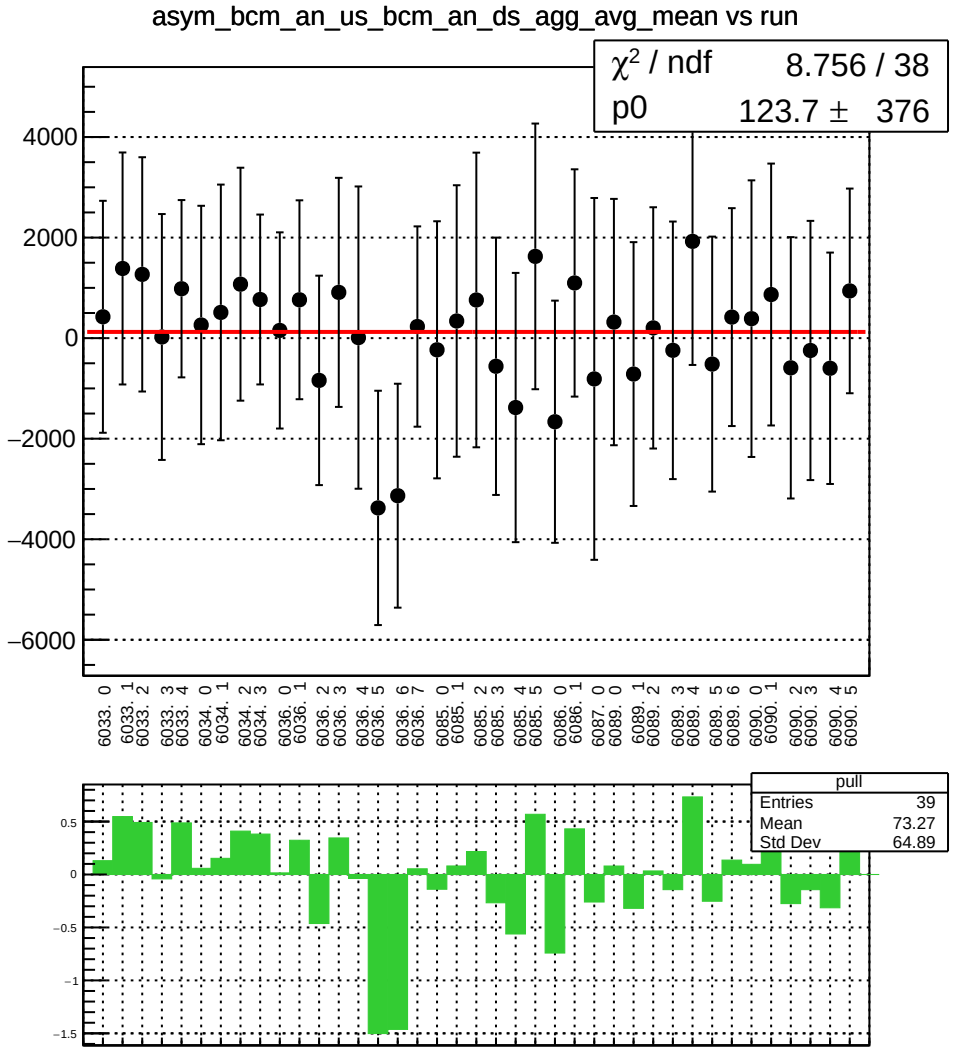
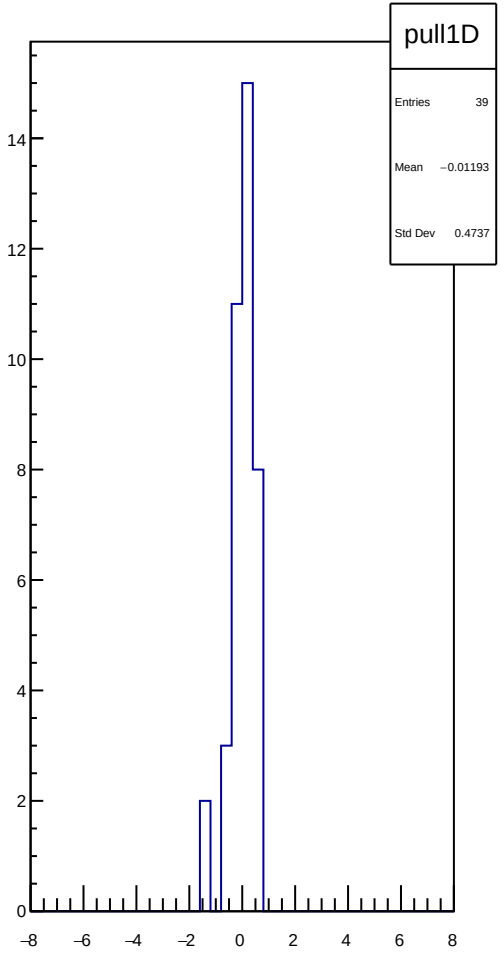
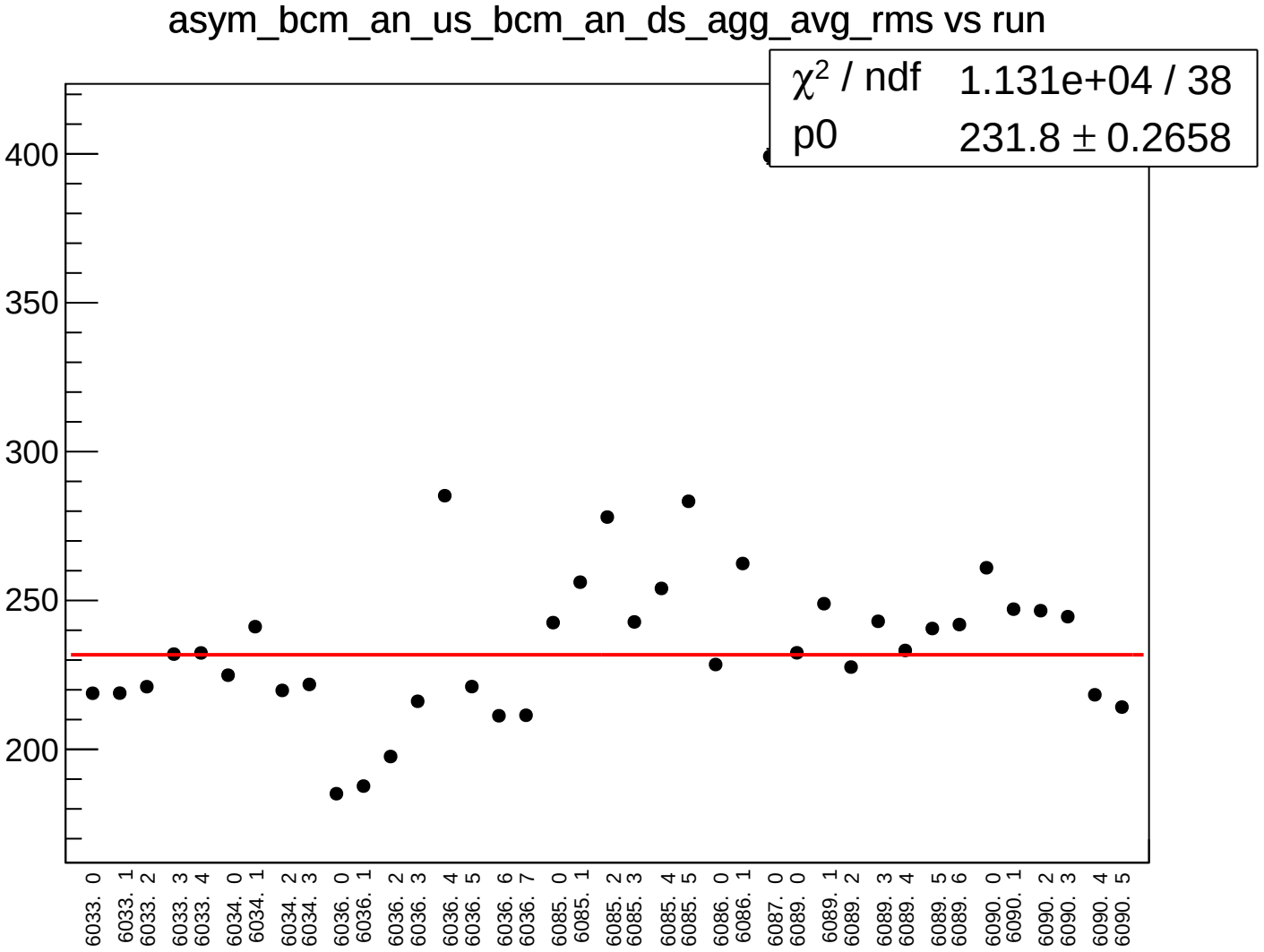
6090. 4
6090. 5

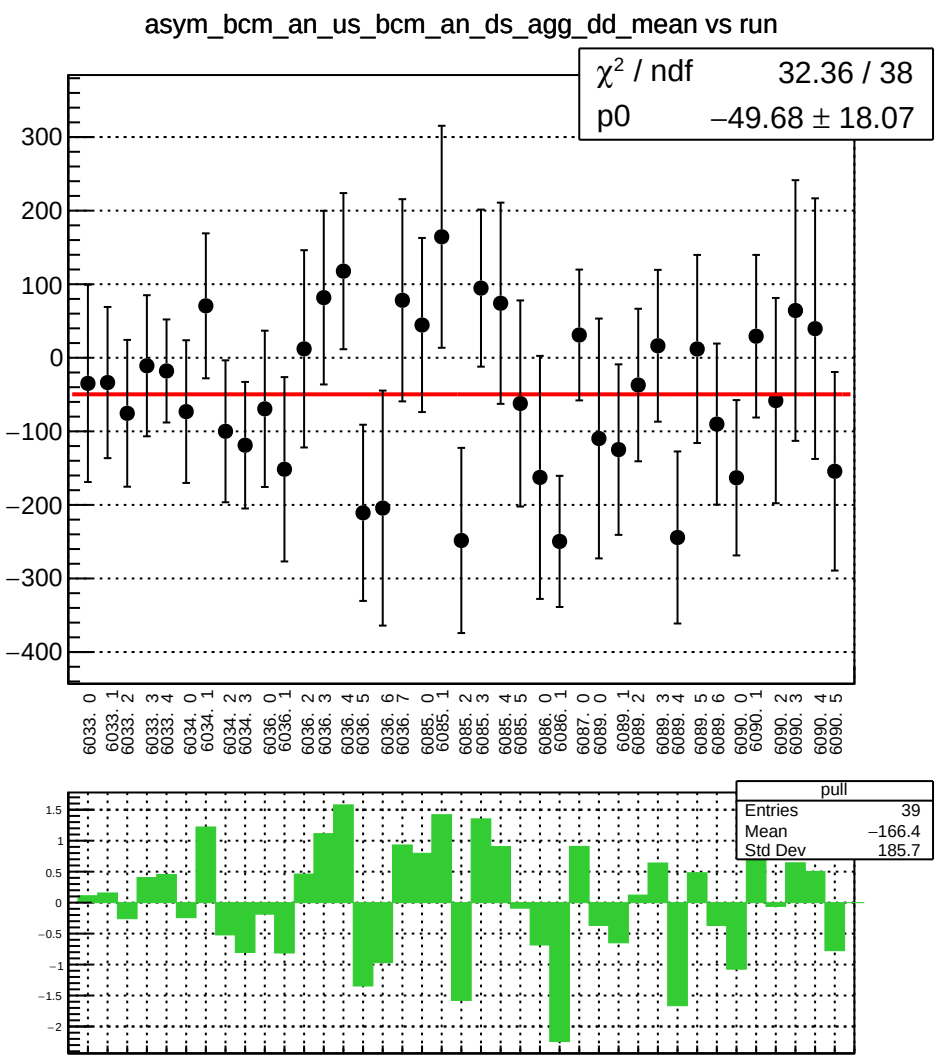

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.7 / 38
p0 −175.1± 2682
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 87.2
Std Dev 64.87
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01127
Std Dev 0.9432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

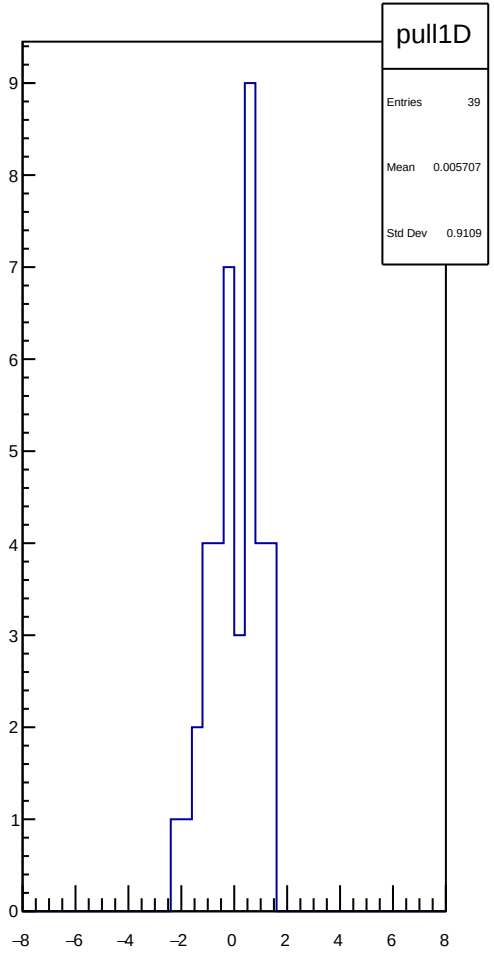

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3629 / 38
p0 1661 ± 1.896
2000
1900
1800
1700
1600
1500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

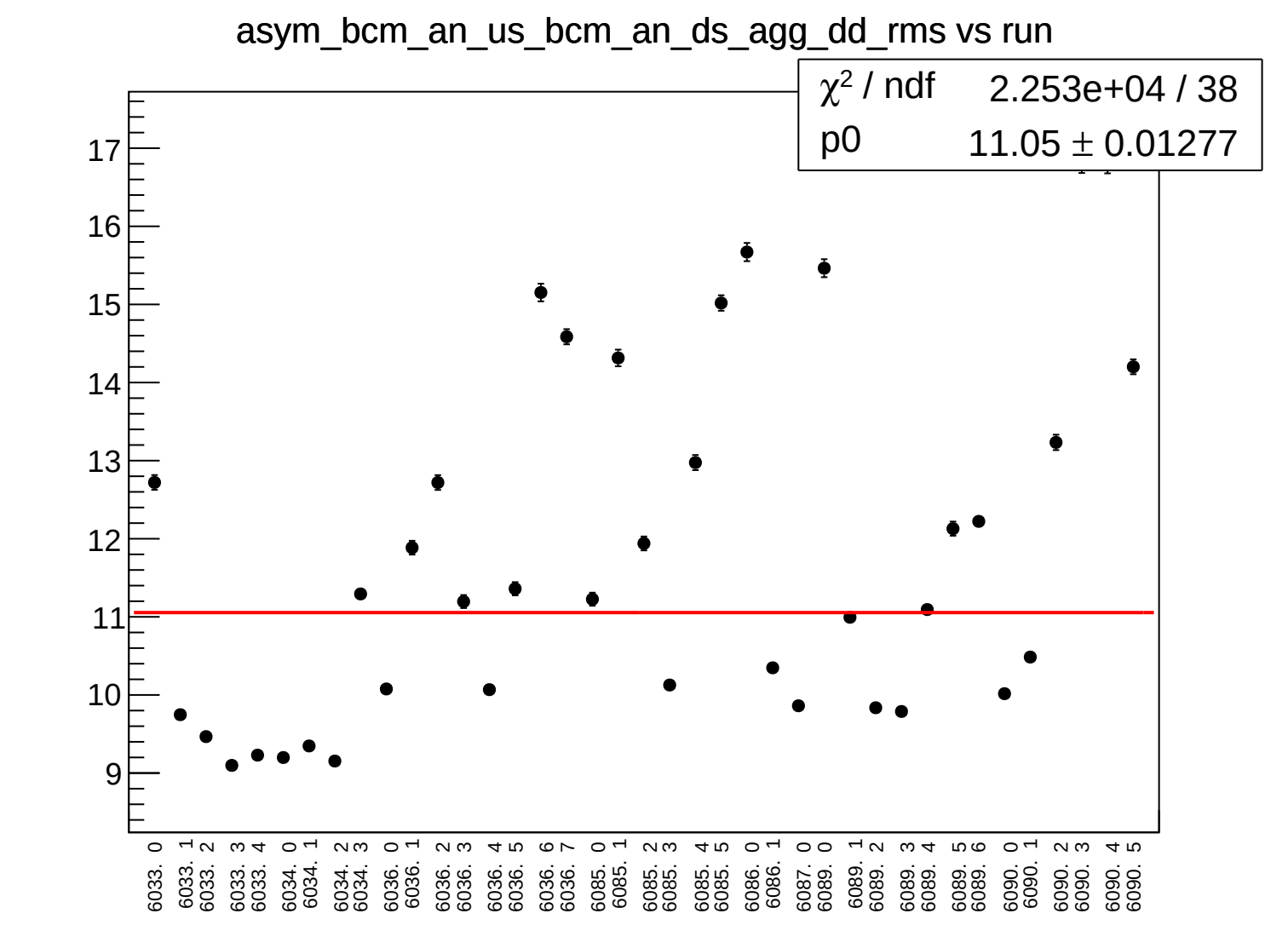

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.756 / 38
p0 123.7 ± 376
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 73.27
Std Dev 64.89
0.5
0
−0.5
−1
−1.5

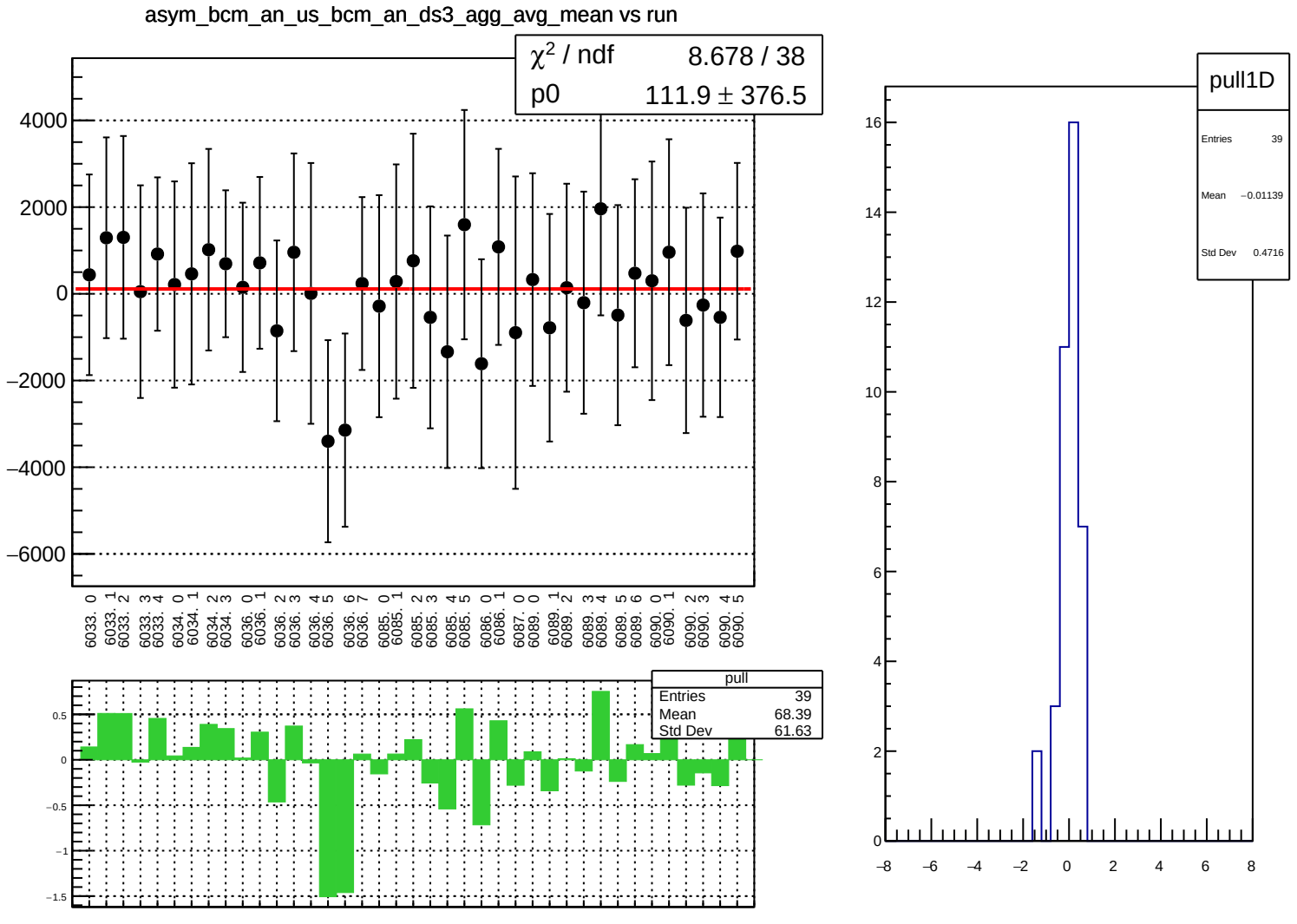

pull1D
Entries 39
Mean −0.01193
Std Dev 0.4737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

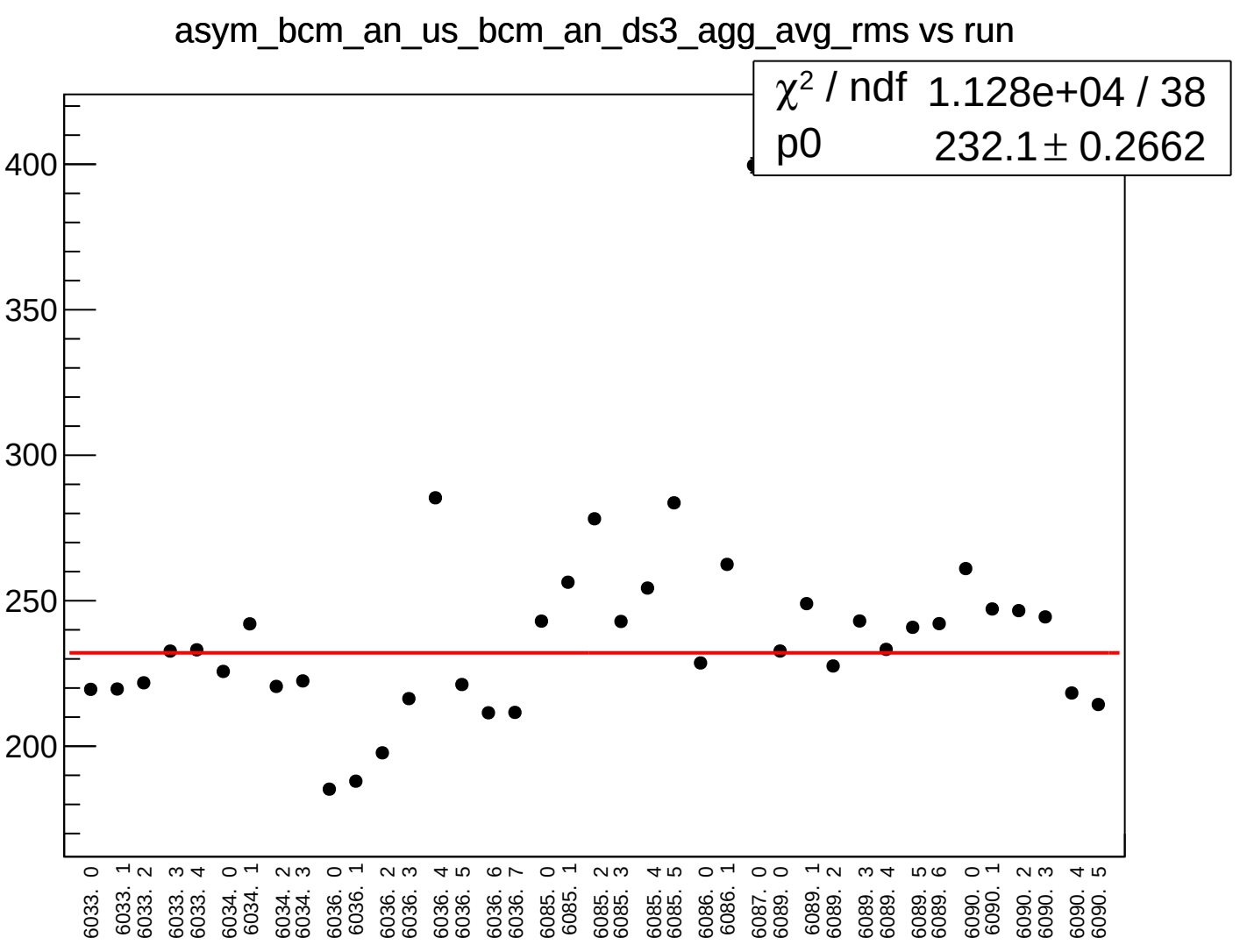

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.131e+04 / 38
p0 231.8 ± 0.2658
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

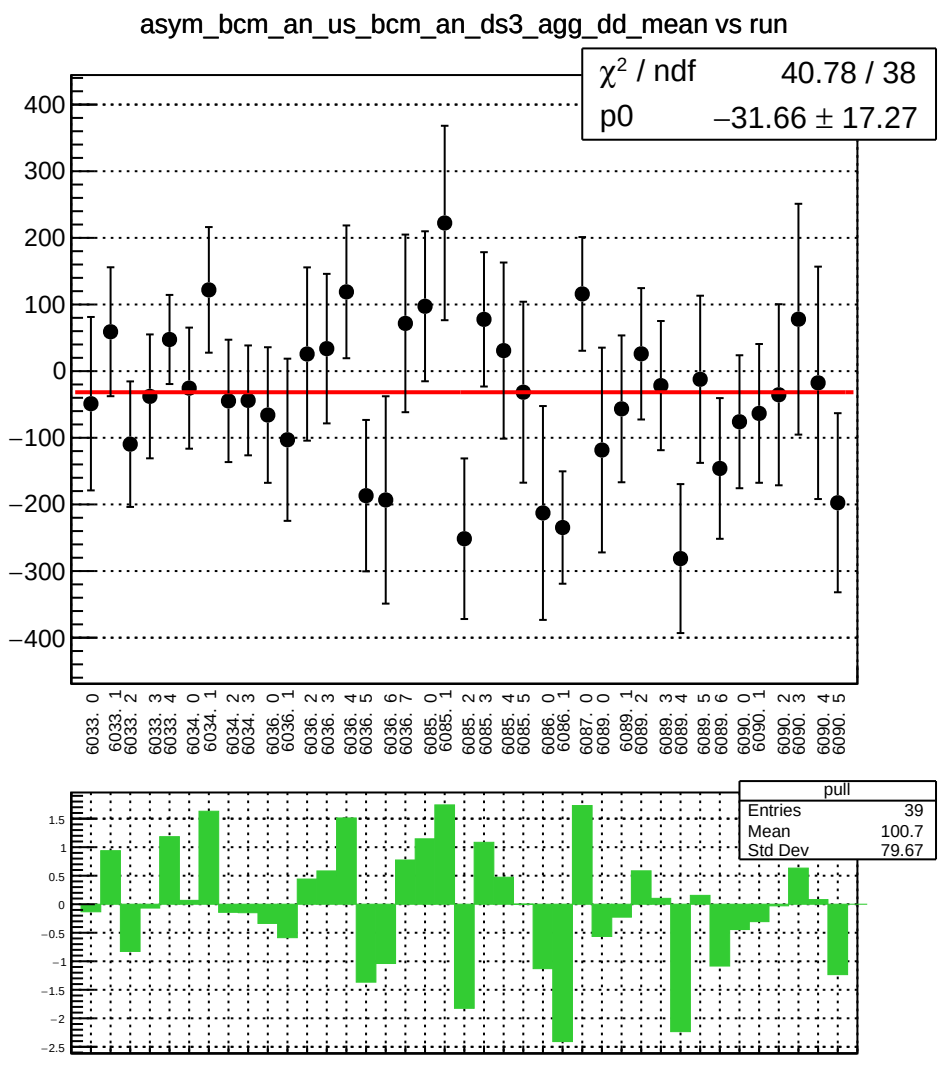

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 32.36 / 38
p0 −49.68 ± 18.07
pull
Entries 39
Mean −166.4
Std Dev 185.7

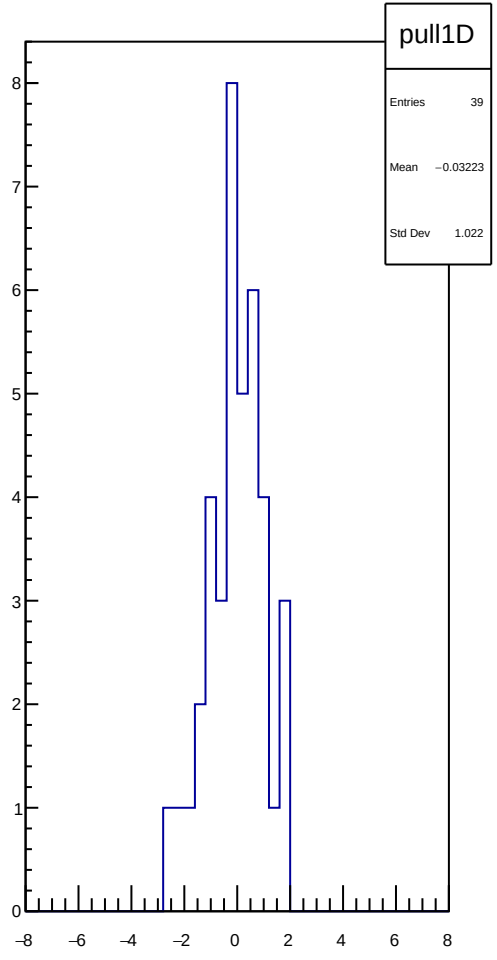

pull1D
Entries 39
Mean 0.005707
Std Dev 0.9109

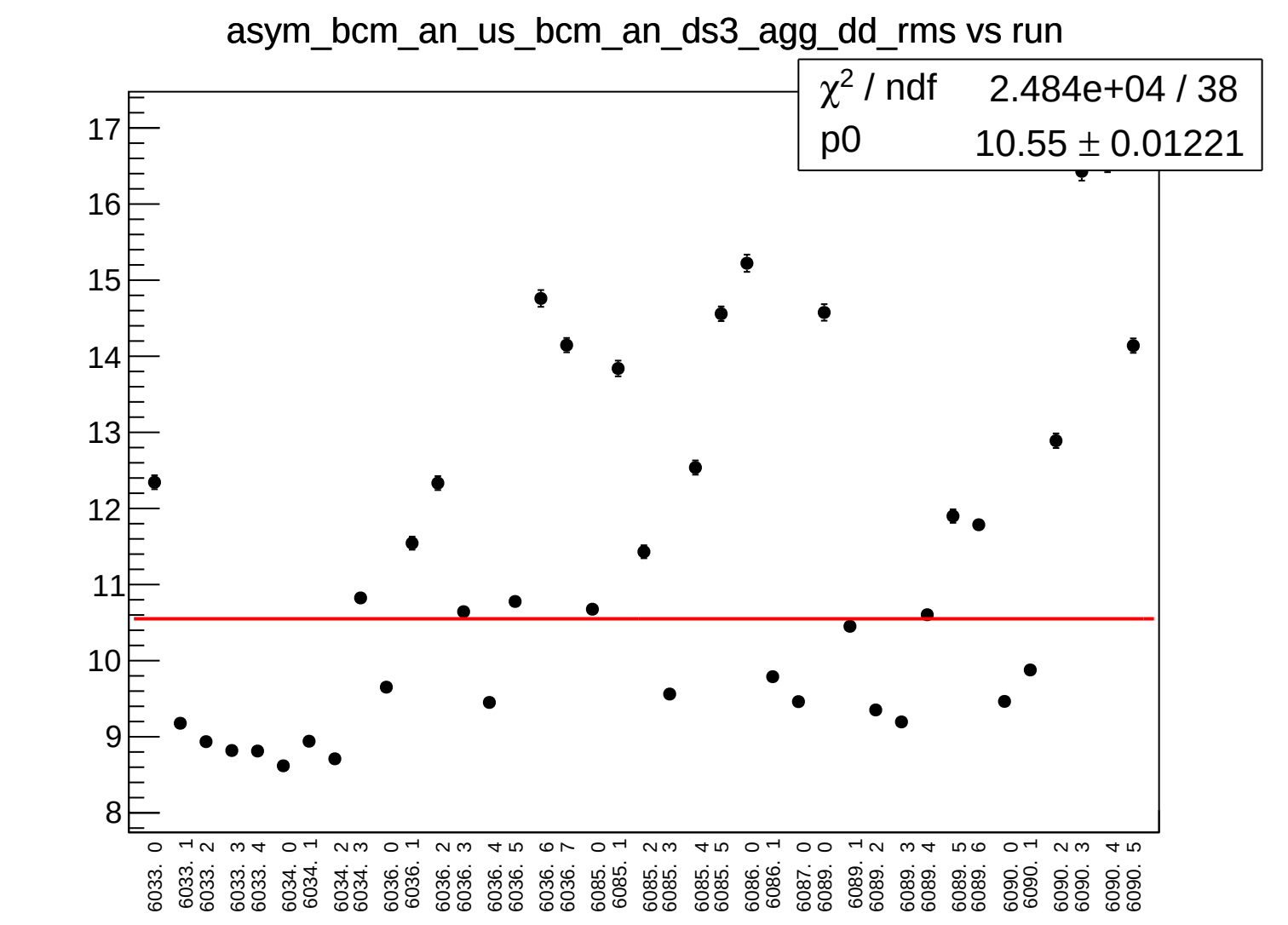

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.253e+04 / 38
p0 11.05 ± 0.01277
17
16
15
14
13
12
11
10
9
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

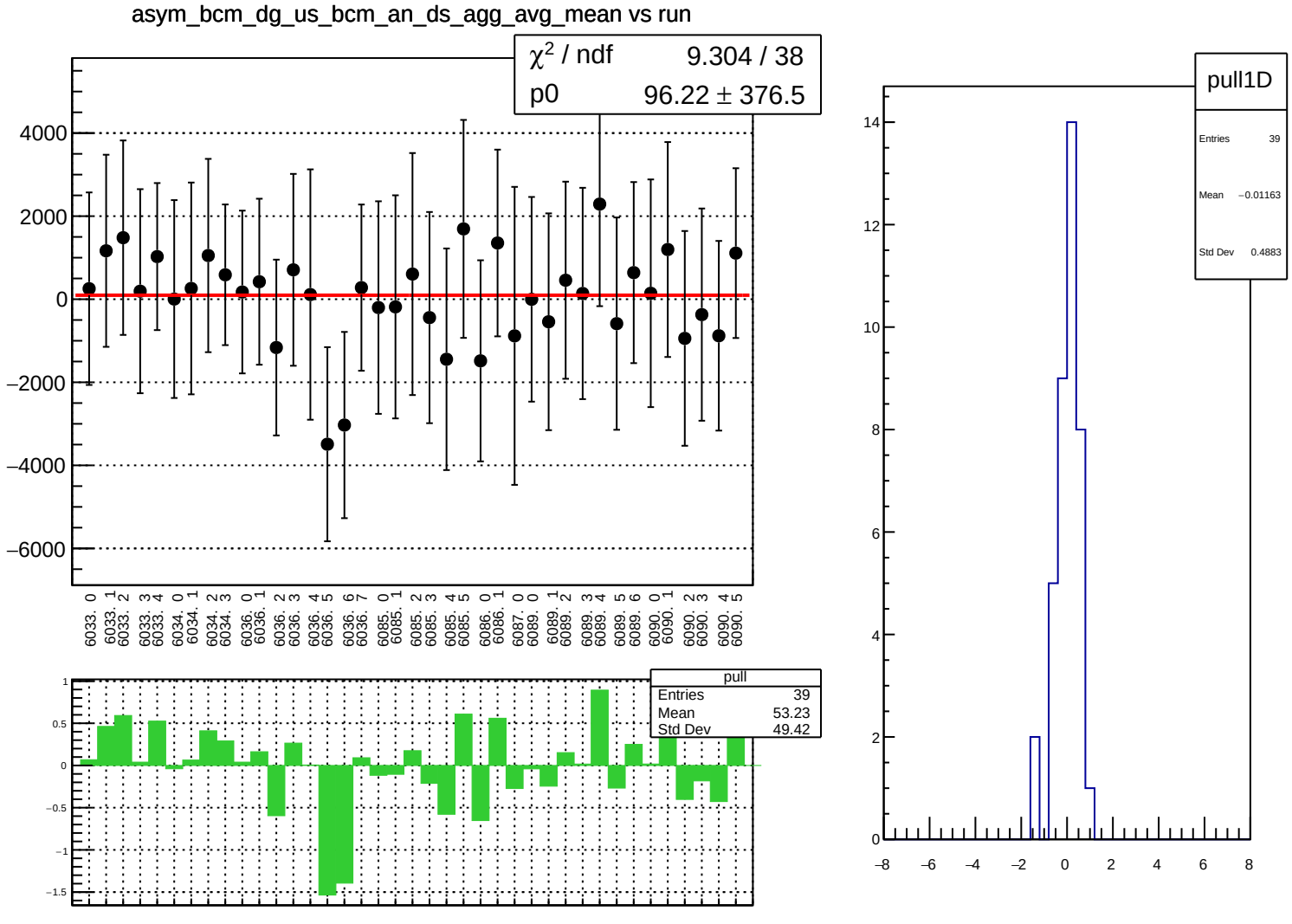

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 8.678 / 38
p0 111.9 ± 376.5
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 68.39
Std Dev 61.63
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01139
Std Dev 0.4716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

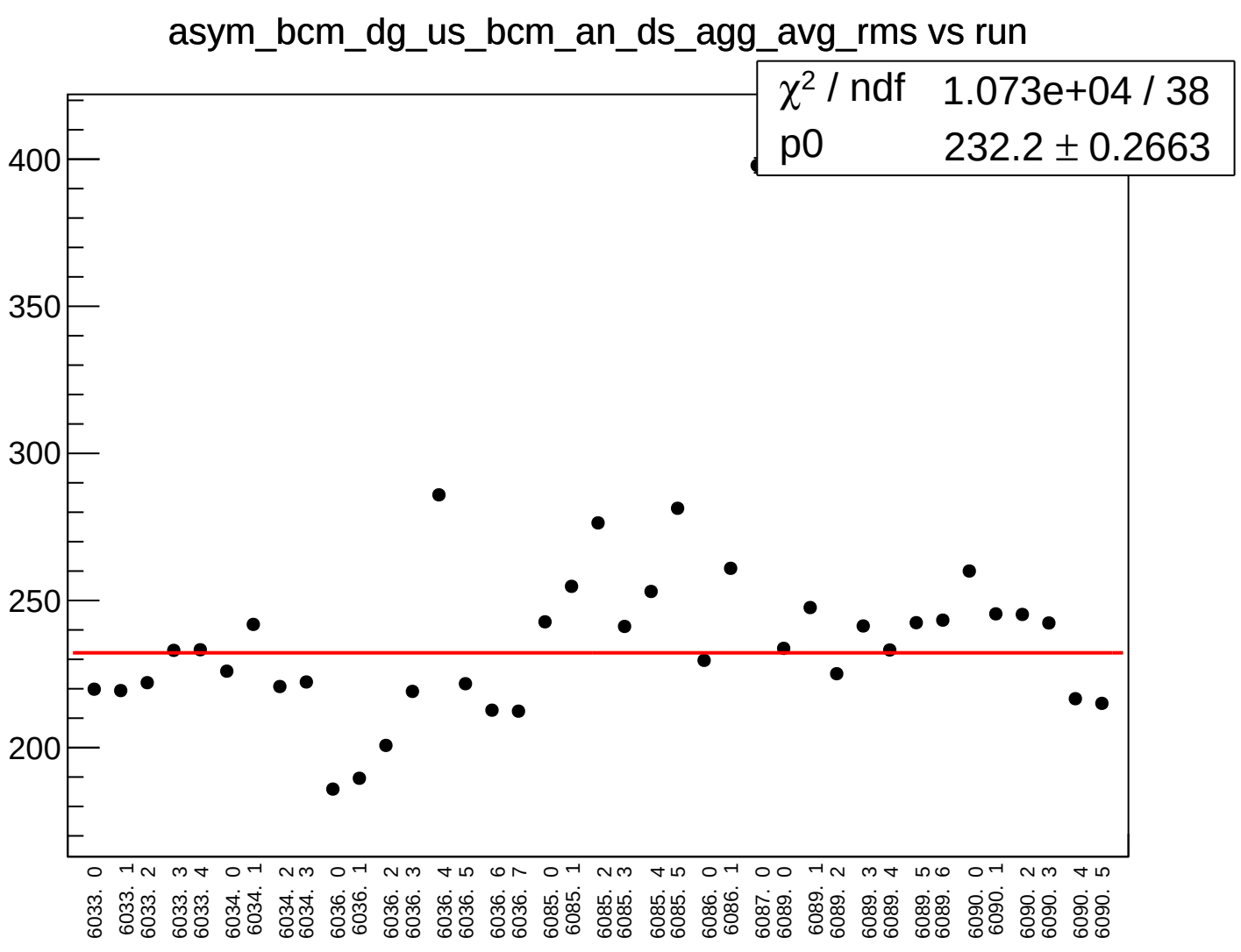

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.128e+04 / 38
p0 232.1 ± 0.2662
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

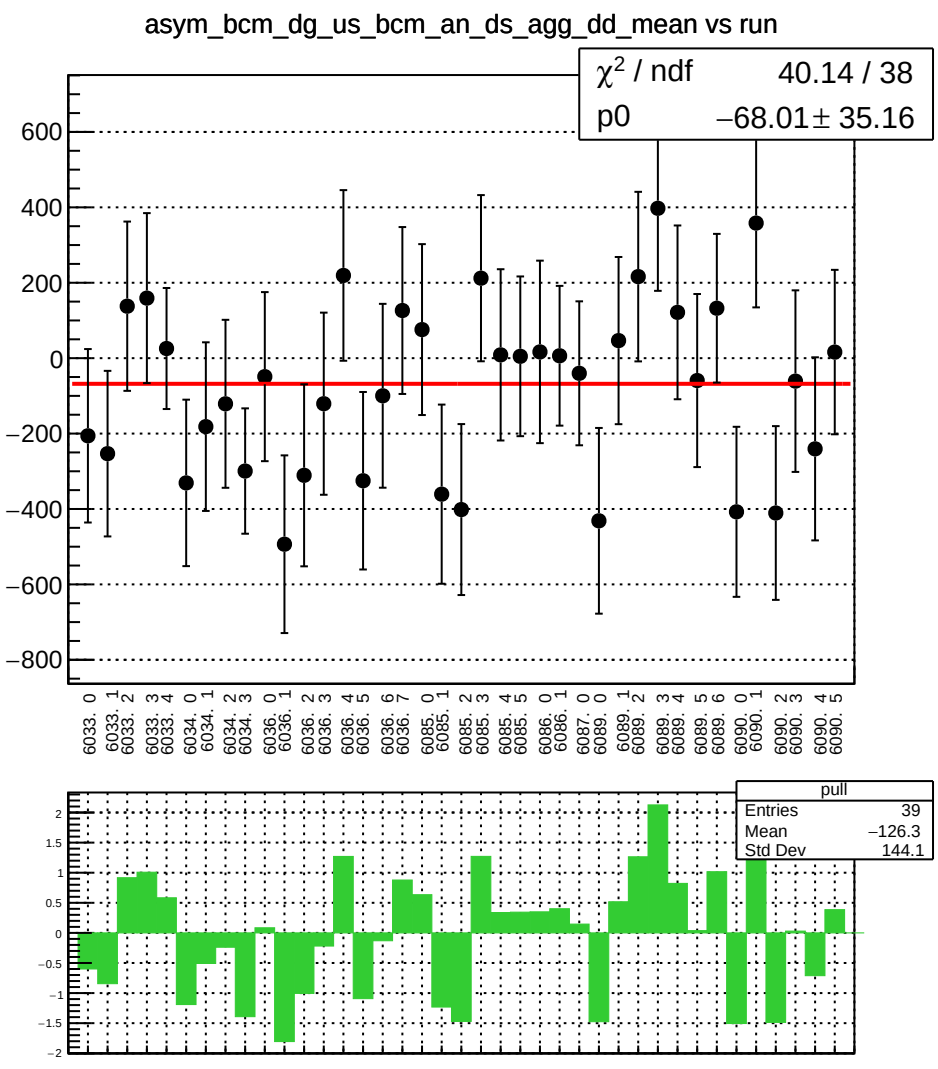

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 40.78 / 38
p0 −31.66 ± 17.27
400
300
200
100
0
−100
−200
−300
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 100.7
Std Dev 79.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

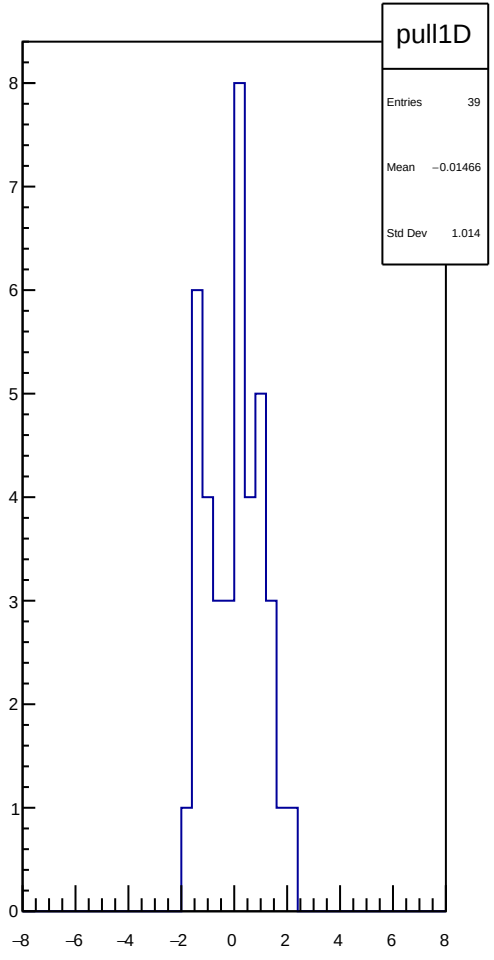

pull1D
Entries 39
Mean −0.03223
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

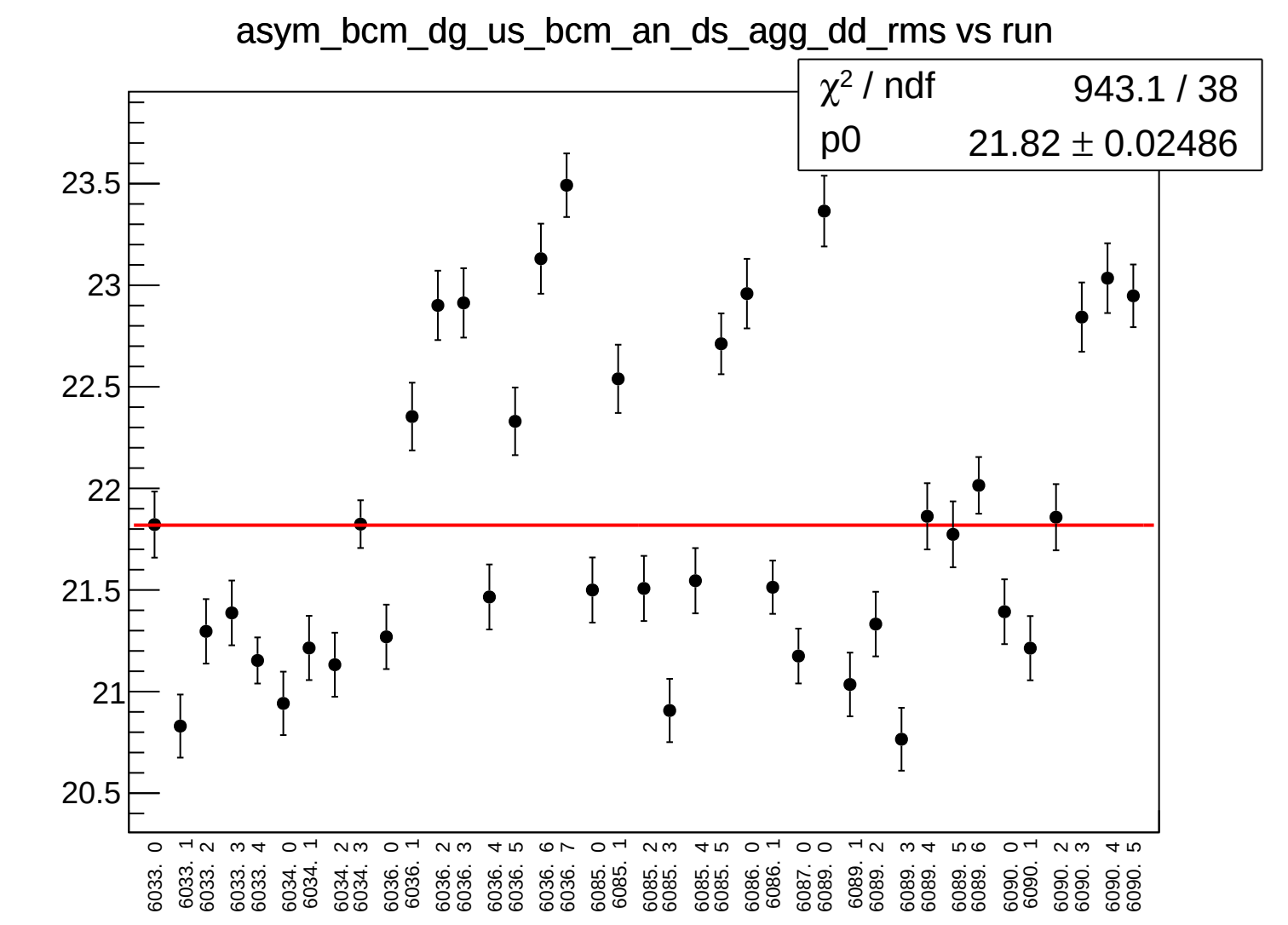

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.484e+04 / 38
p0 10.55 ± 0.01221
17
16
15
14
13
12
11
10
9
8
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

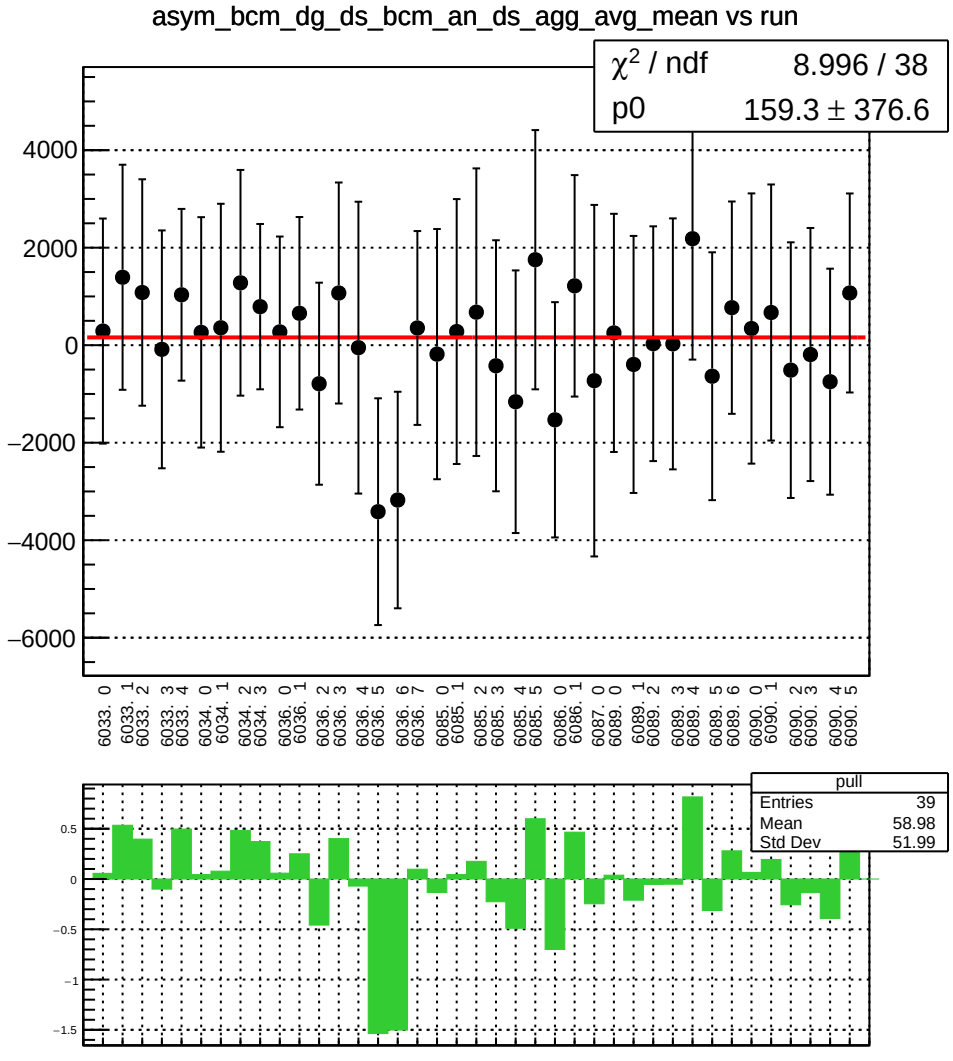

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.304 / 38
p0 96.22 ± 376.5
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 53.23
Std Dev 49.42
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01163
Std Dev 0.4883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

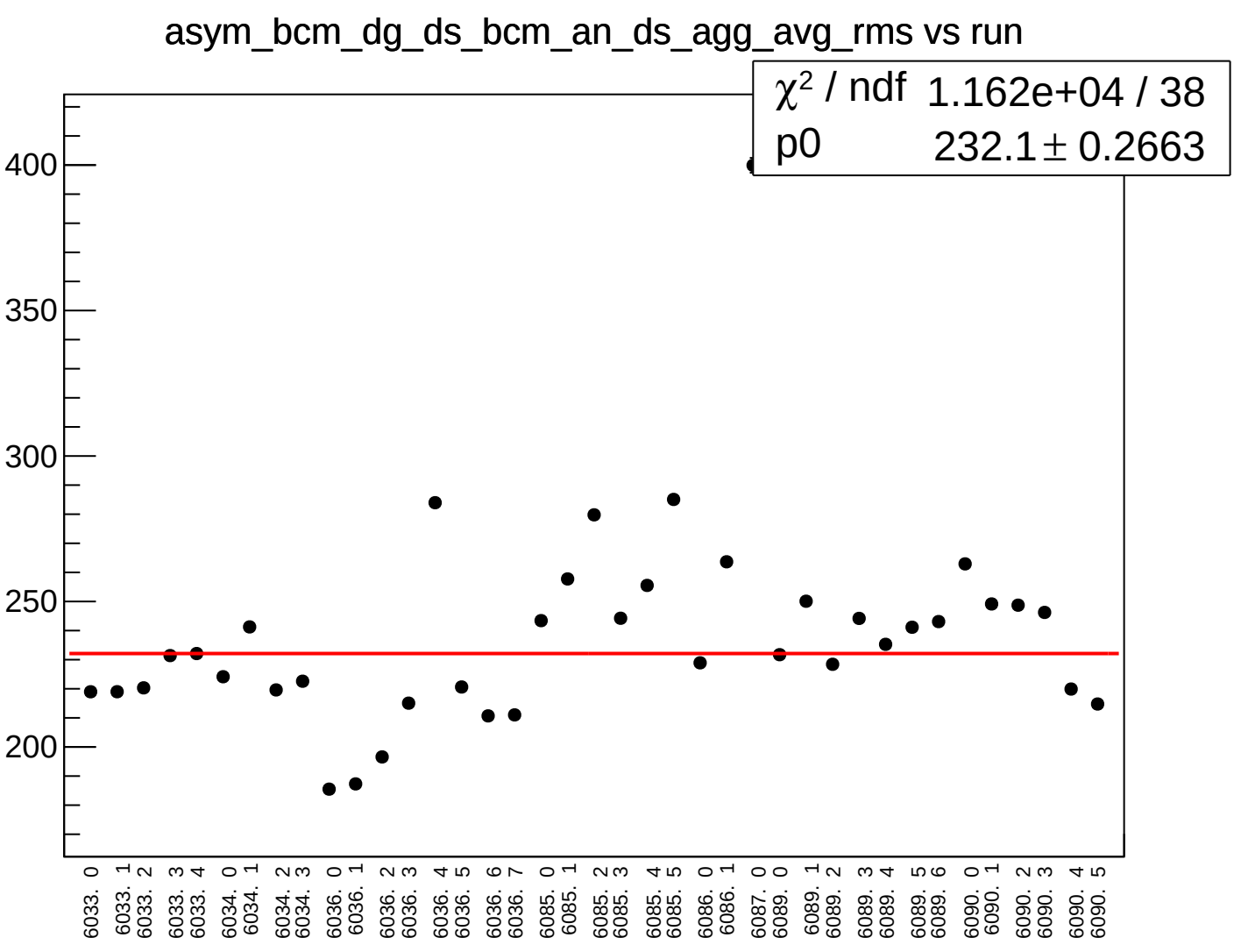

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.073e+04 / 38
p0 232.2 ± 0.2663
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

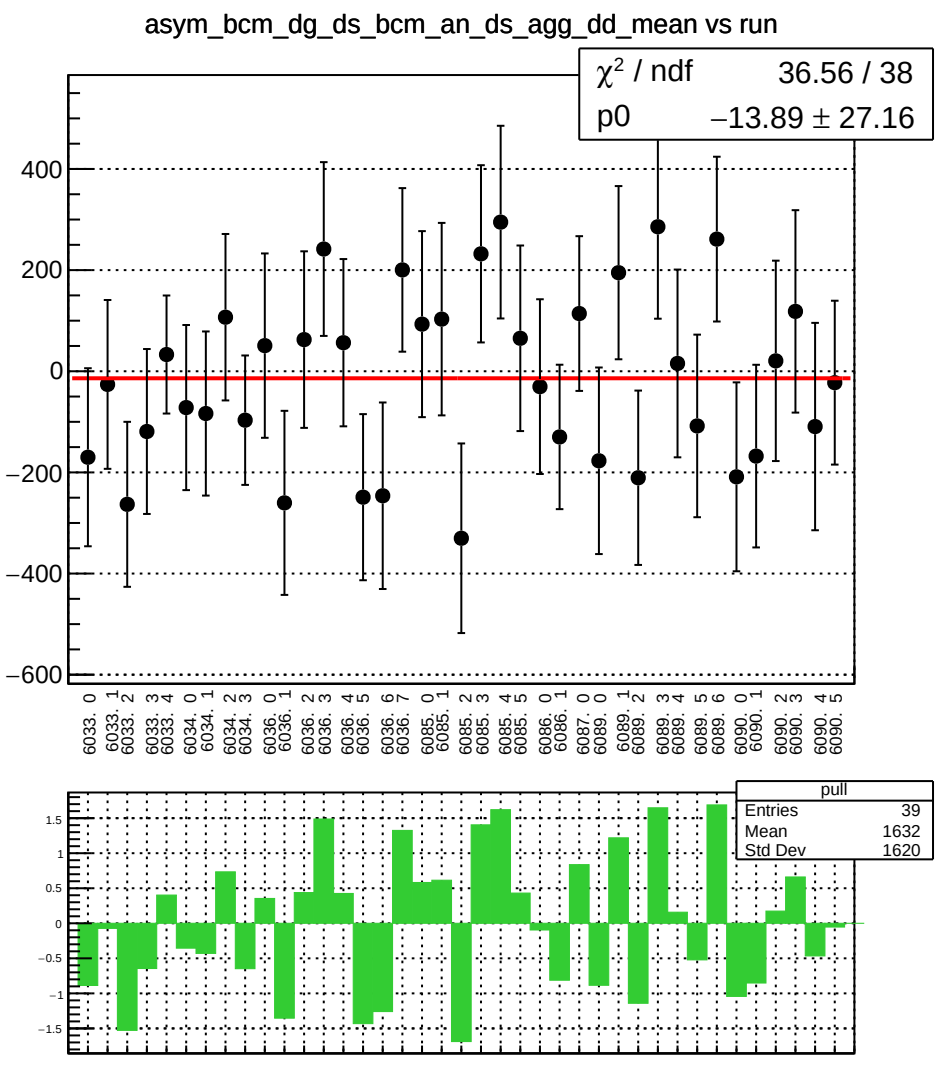

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 40.14 / 38
p0 −68.01 ± 35.16
600
400
200
0
−200
−400
−600
−800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −126.3
Std Dev 144.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

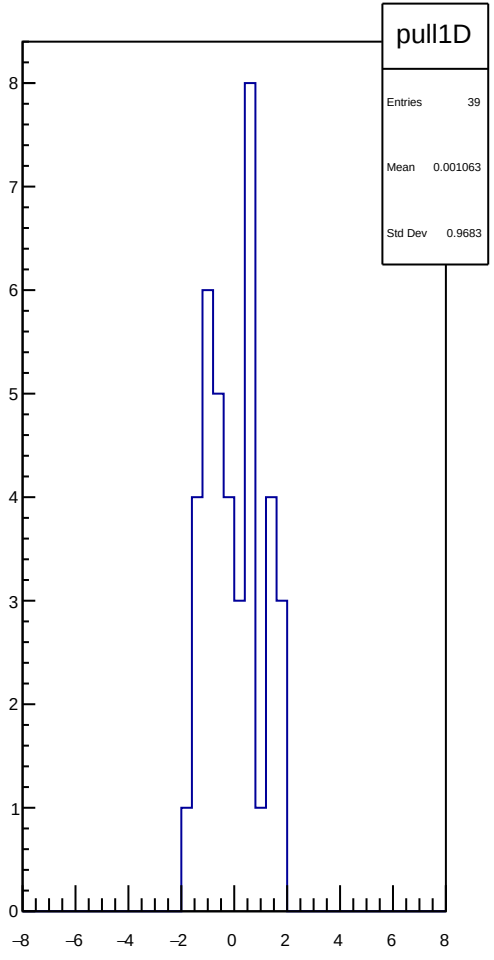

pull1D
Entries 39
Mean −0.01466
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

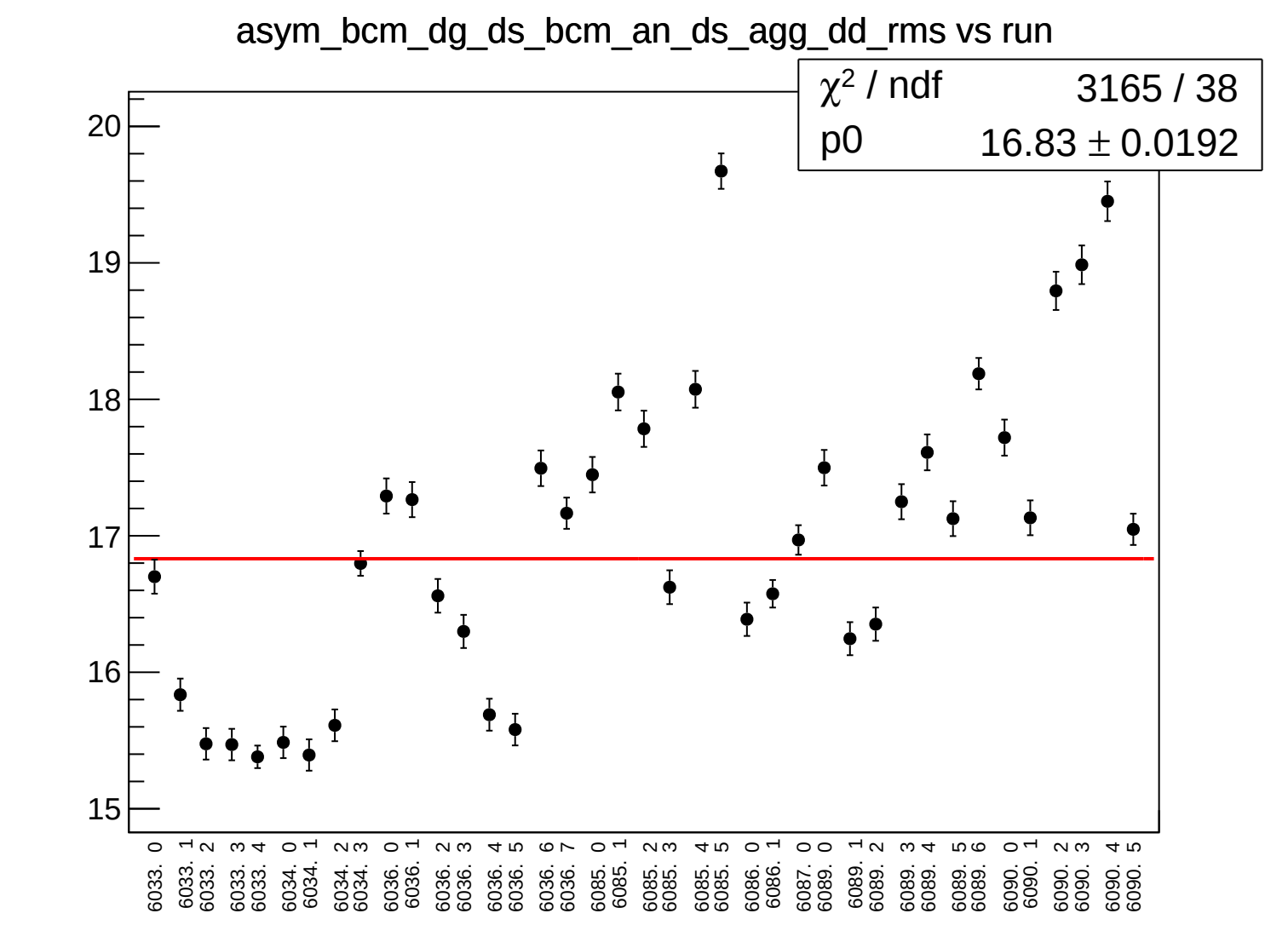

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 943.1 / 38
p0 21.82 ± 0.02486
23.5
23
22.5
22
21.5
21
20.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

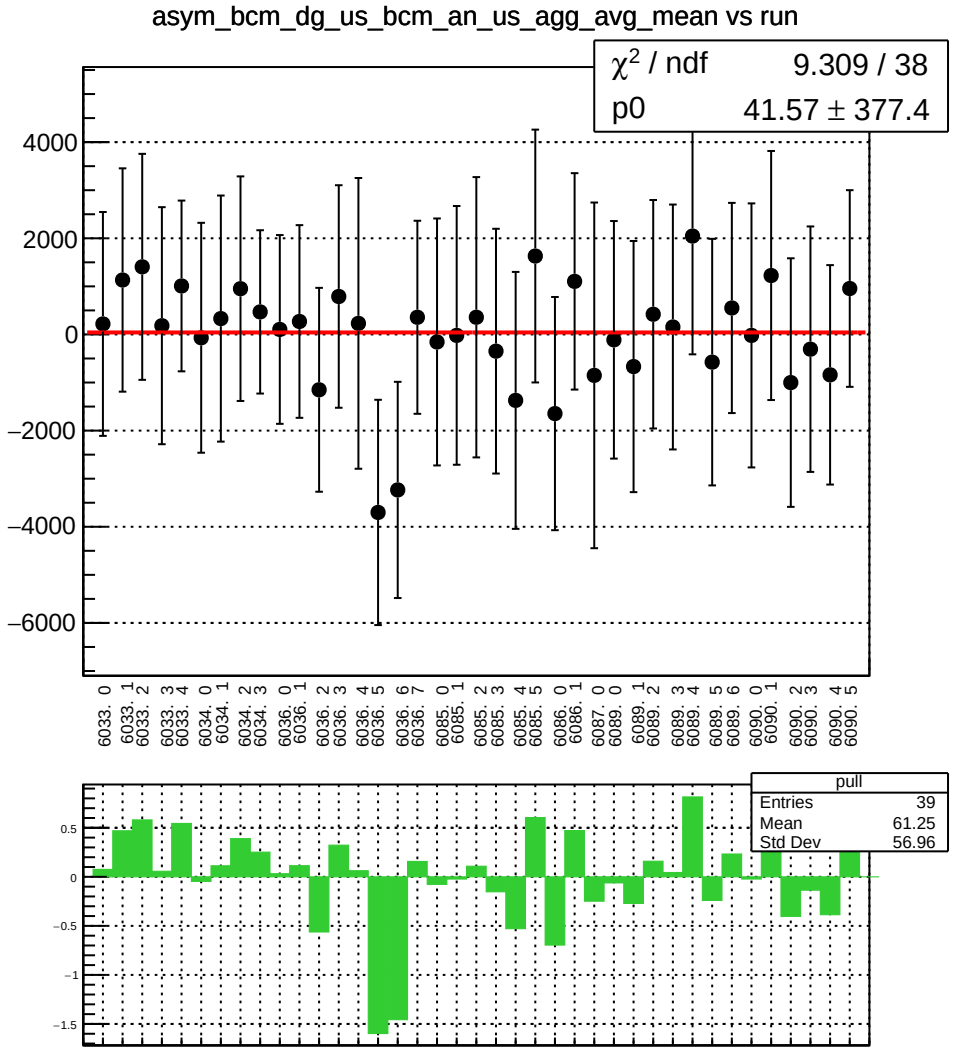

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.996 / 38
p0 159.3 ± 376.6
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 58.98
Std Dev 51.99
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01219
Std Dev 0.4801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

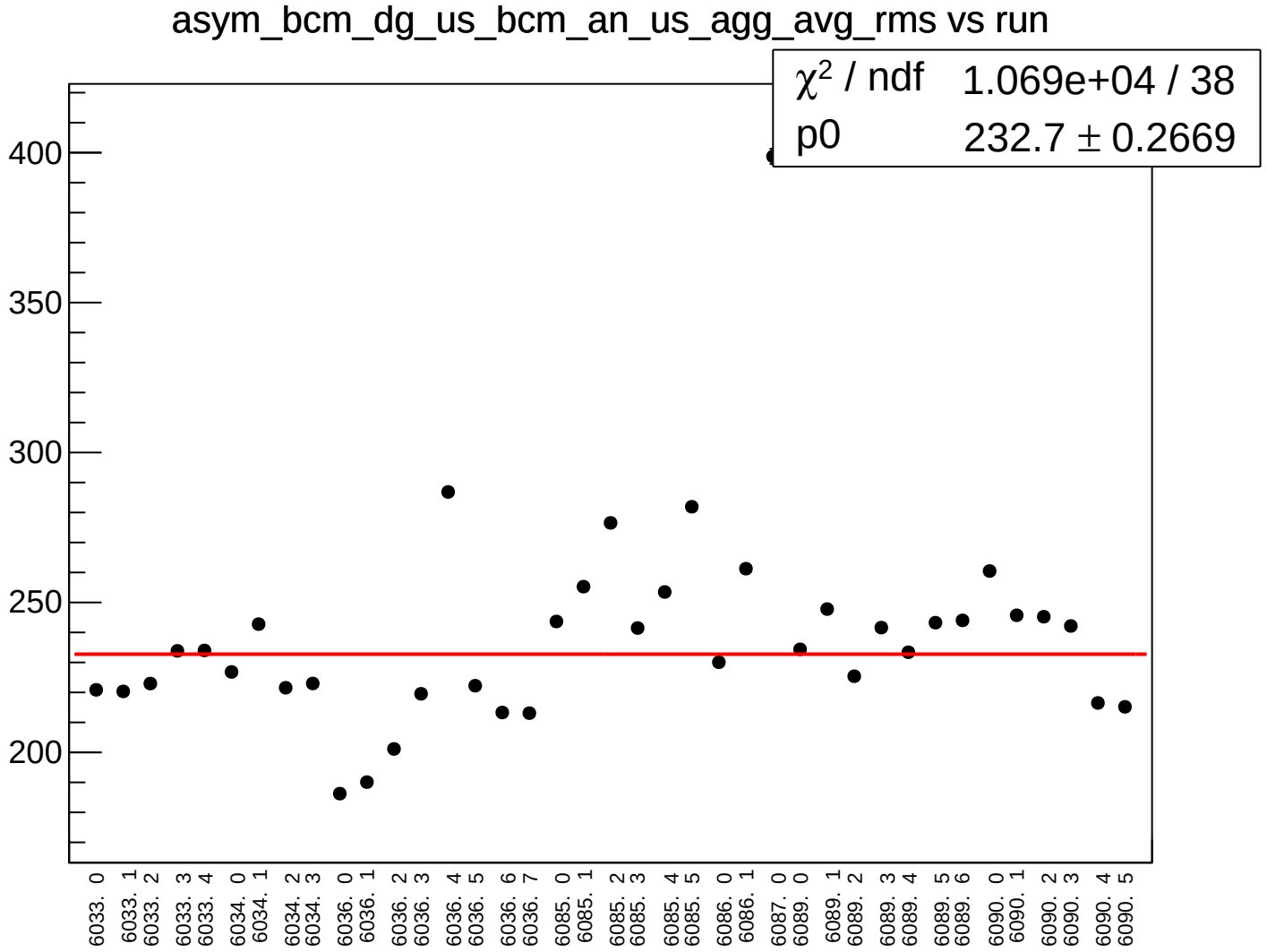

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.162e+04 / 38
p0 232.1 ± 0.2663
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

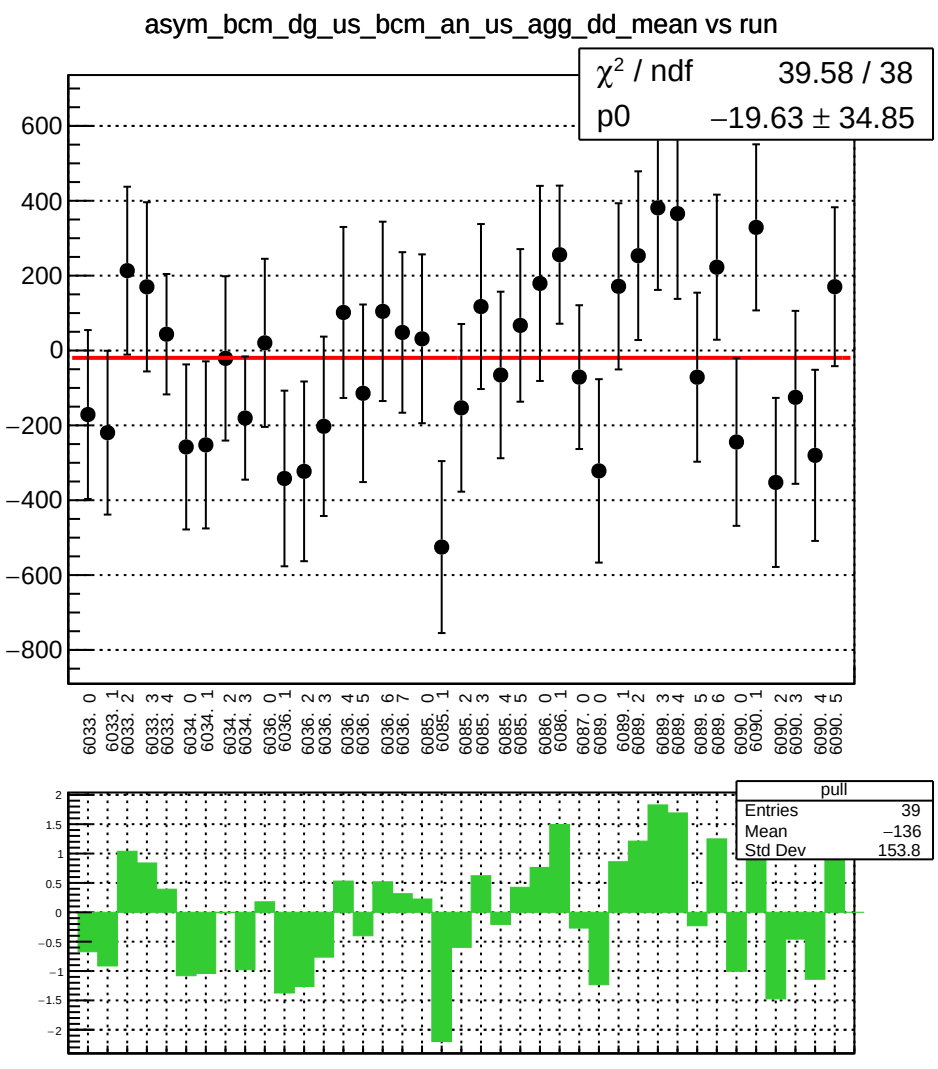

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 36.56 / 38
p0 −13.89 ± 27.16
400
200
0
−200
−400
−600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 1632
Std Dev 1620
1.5
1
0.5
0
−0.5
−1
−1.5

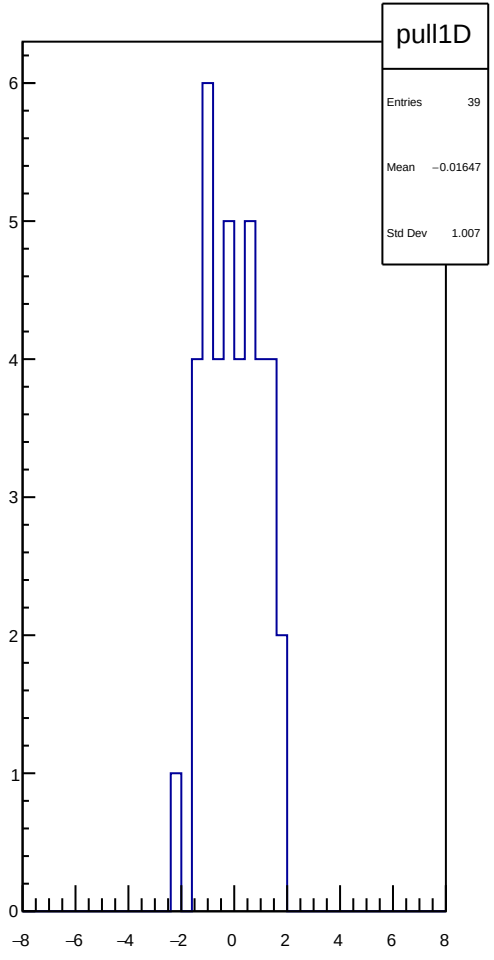

pull1D
Entries 39
Mean 0.001063
Std Dev 0.9683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

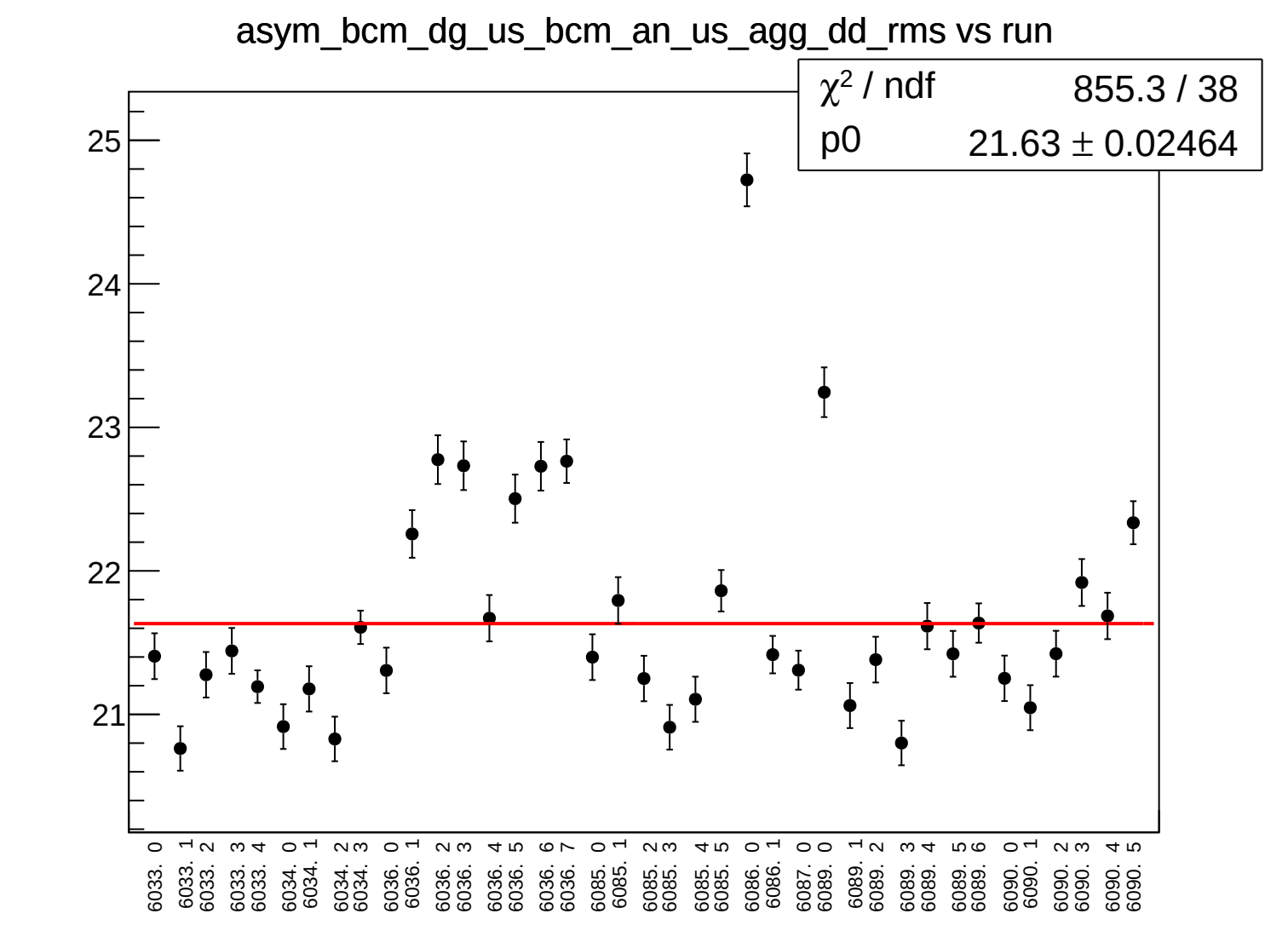

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3165 / 38
p0 16.83 ± 0.0192
20
19
18
17
16
15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

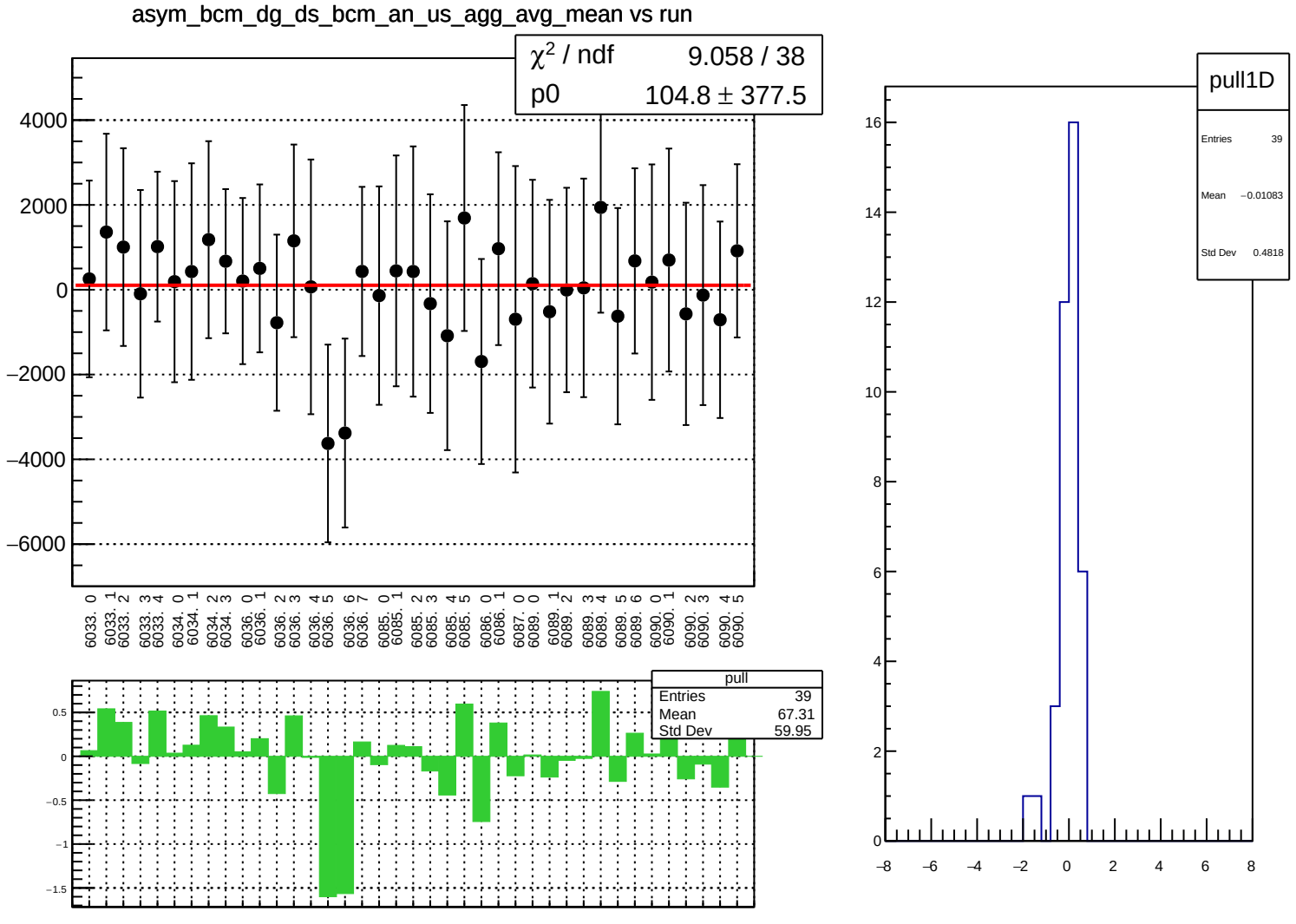

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.309 / 38
p0 41.57 ± 377.4
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 61.25
Std Dev 56.96
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01026
Std Dev 0.4885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

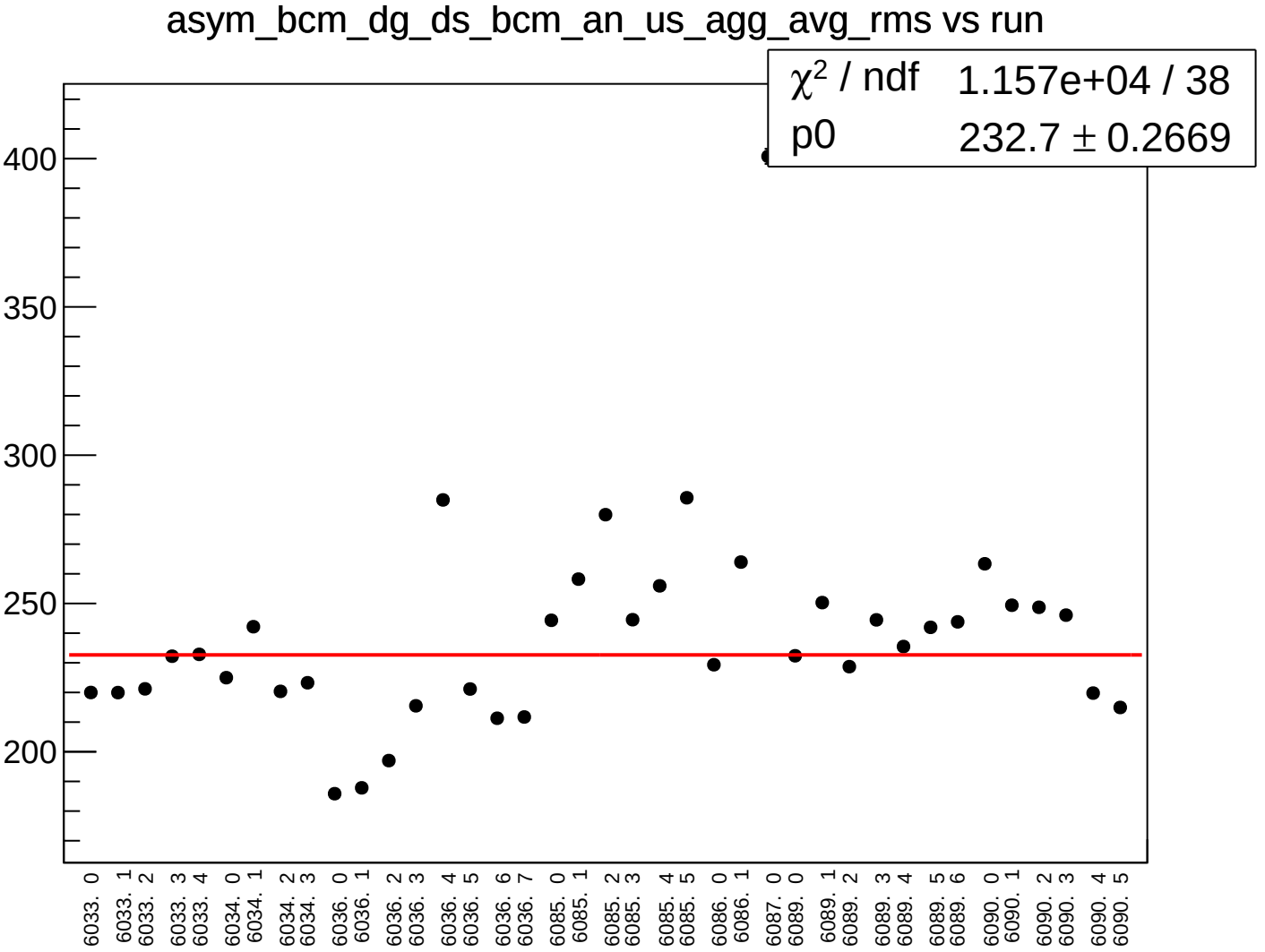

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.069e+04 / 38
p0 232.7 ± 0.2669
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

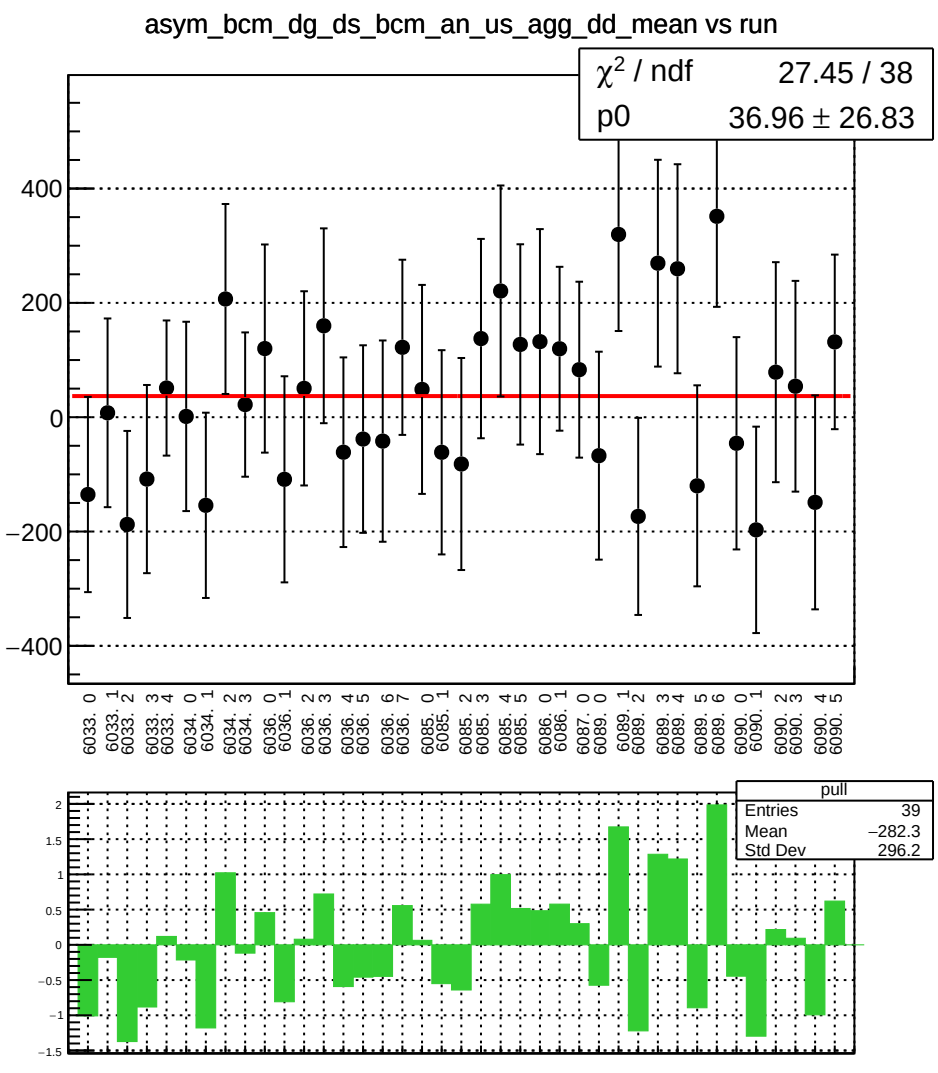

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 39.58 / 38
p0 −19.63 ± 34.85
600
400
200
0
−200
−400
−600
−800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −136
Std Dev 153.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

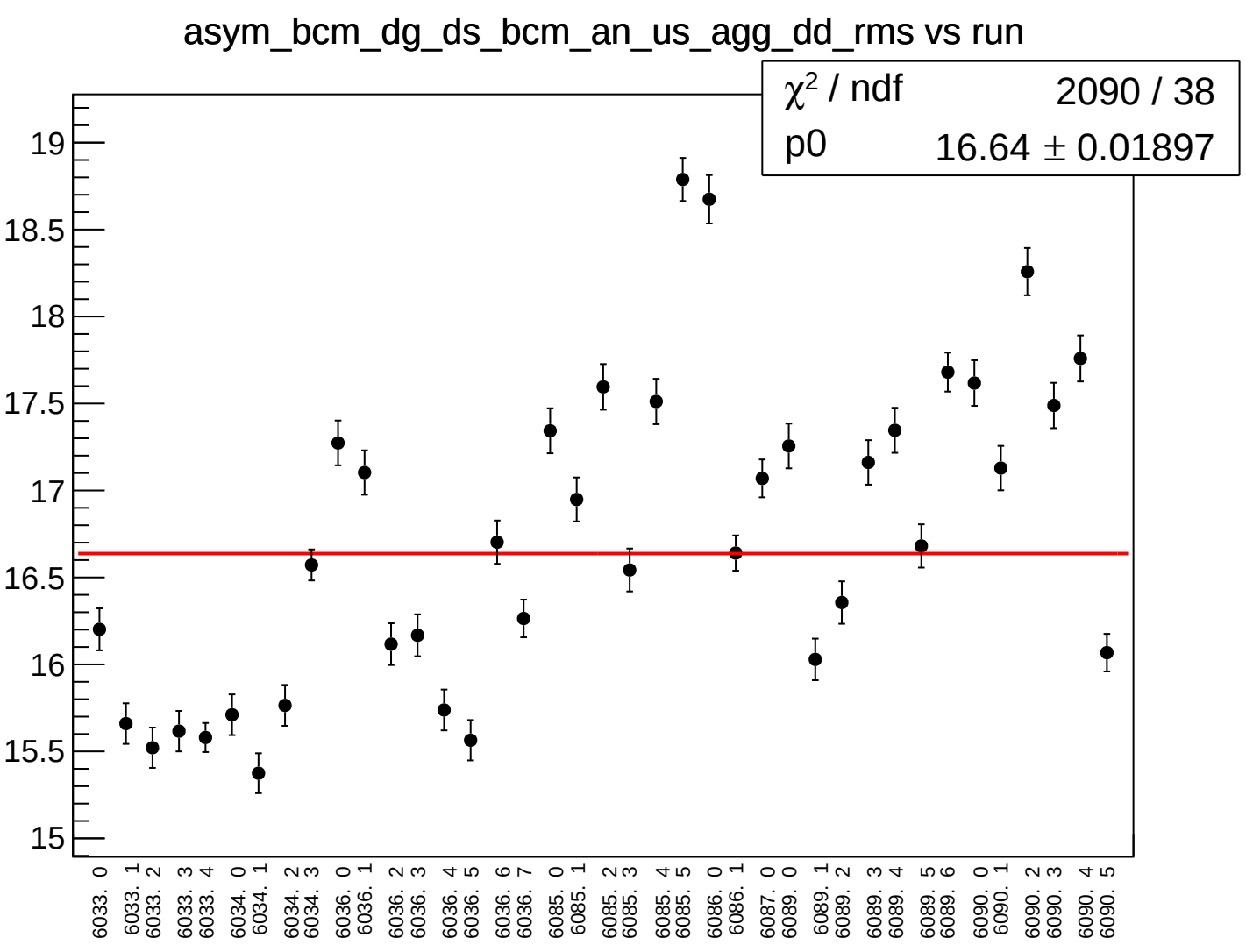

pull1D
Entries 39
Mean −0.01647
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

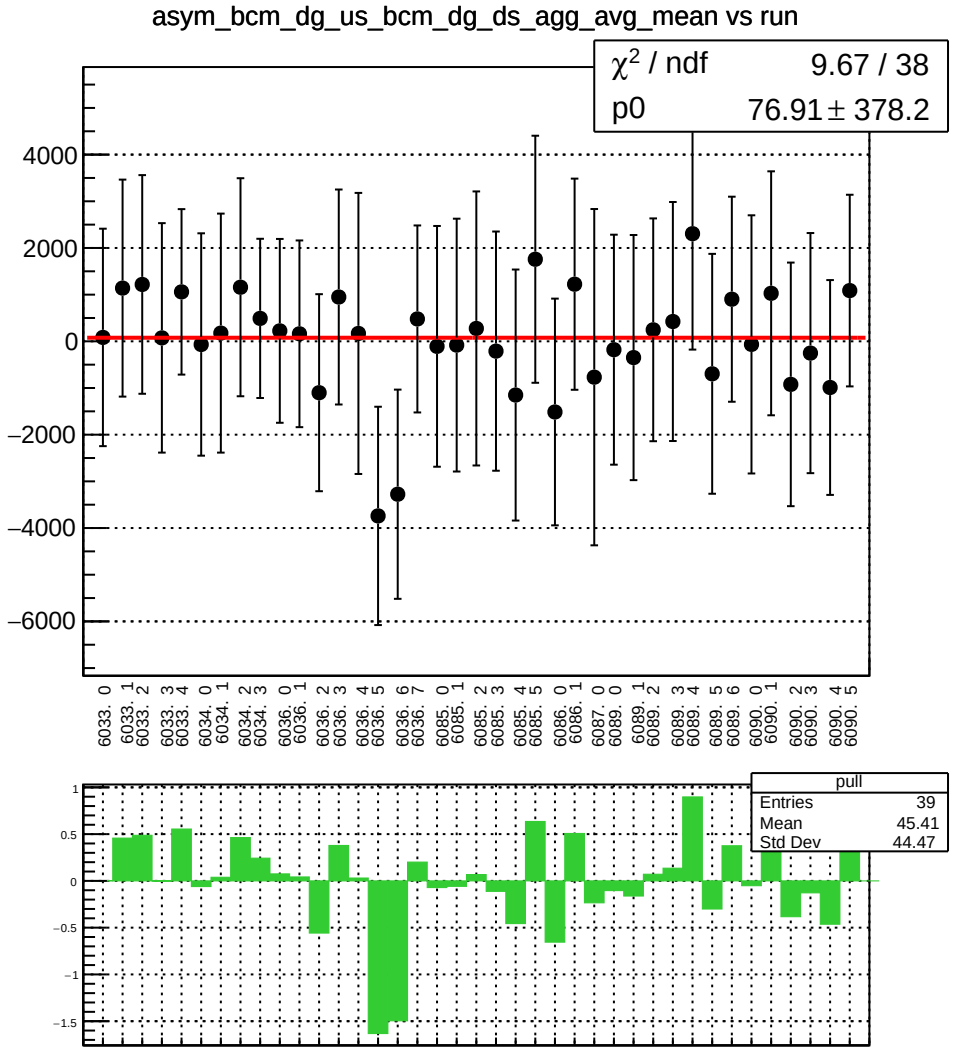

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 855.3 / 38
p0 21.63 ± 0.02464
25
24
23
22
21
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

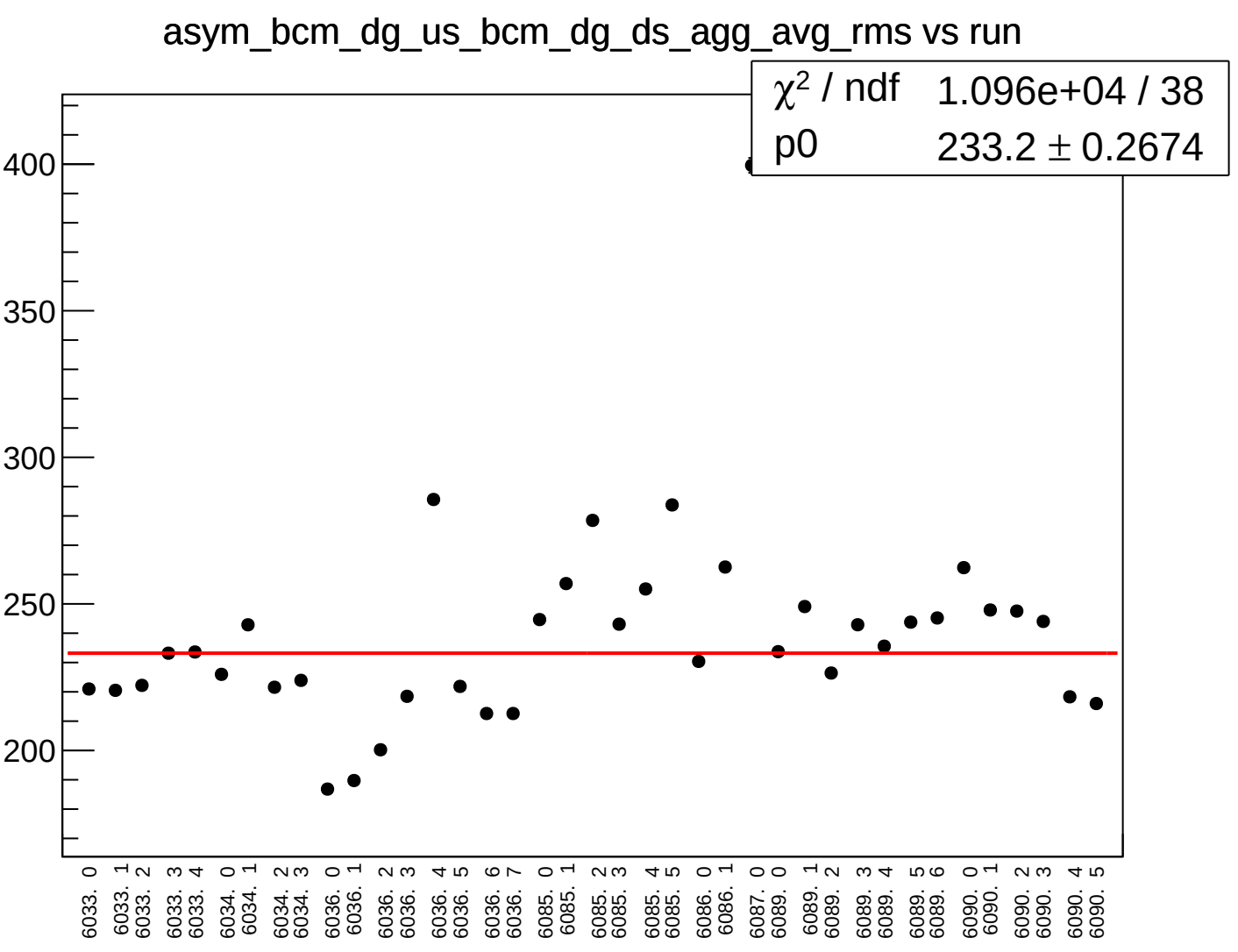

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.058 / 38
p0 104.8 ± 377.5
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 67.31
Std Dev 59.95
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01083
Std Dev 0.4818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

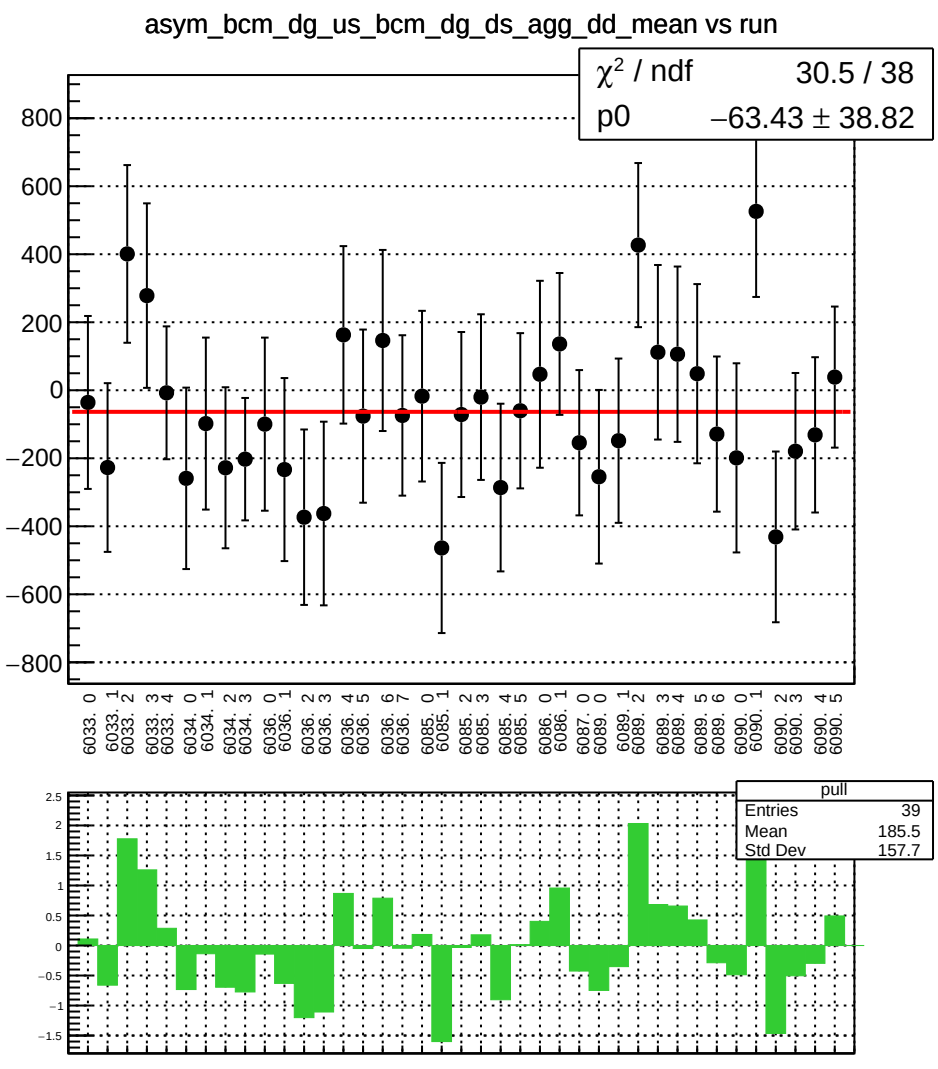

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.157e+04 / 38
p0 232.7 ± 0.2669
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

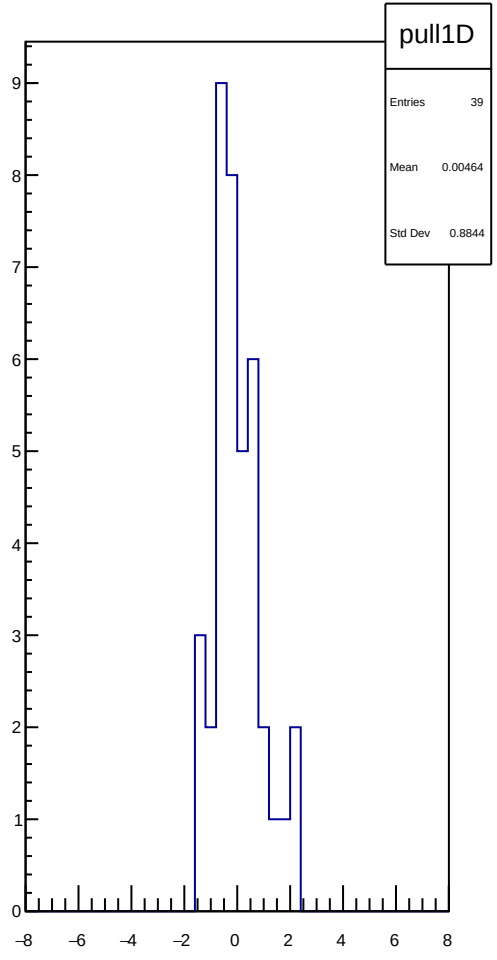

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 27.45 / 38
p0 36.96 ± 26.83
400
200
0
−200
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −282.3
Std Dev 296.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.007866
Std Dev 0.8389
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

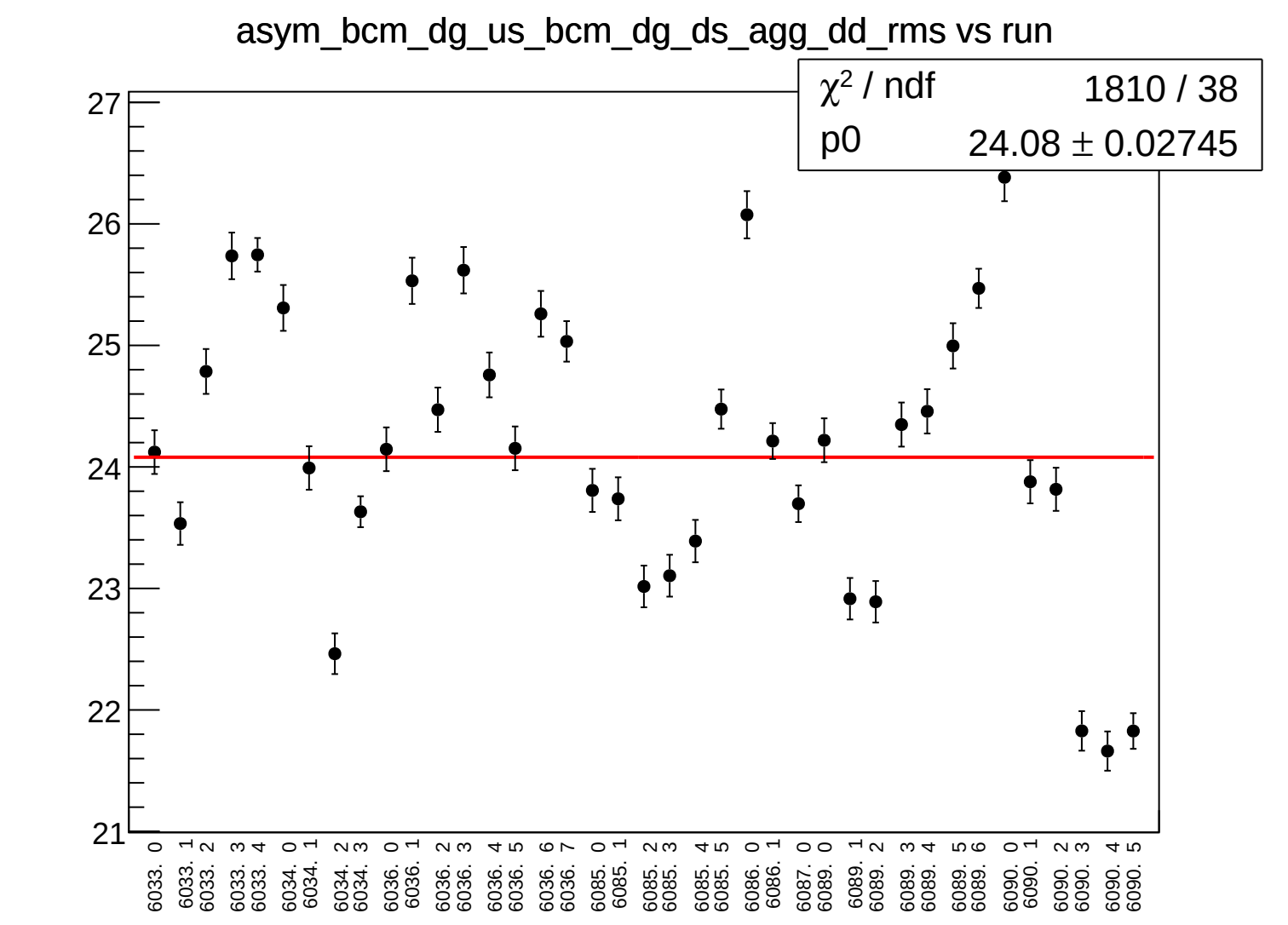

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2090 / 38
p0 16.64 ± 0.01897
19
18.5
18
17.5
17
16.5
16
15.5
15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

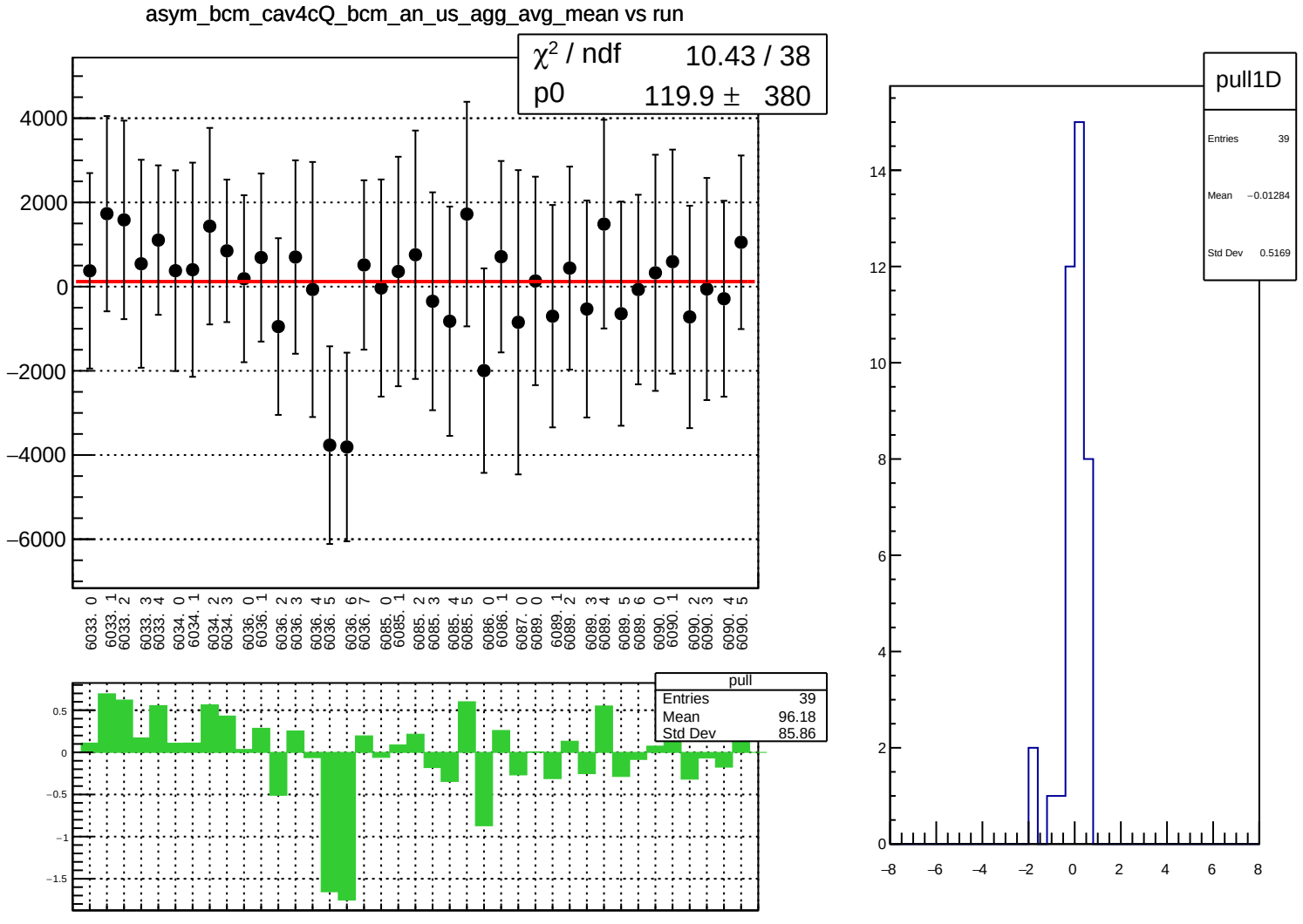

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 9.67 / 38
p0 76.91 ± 378.2
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 45.41
Std Dev 44.47
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01043
Std Dev 0.4978
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

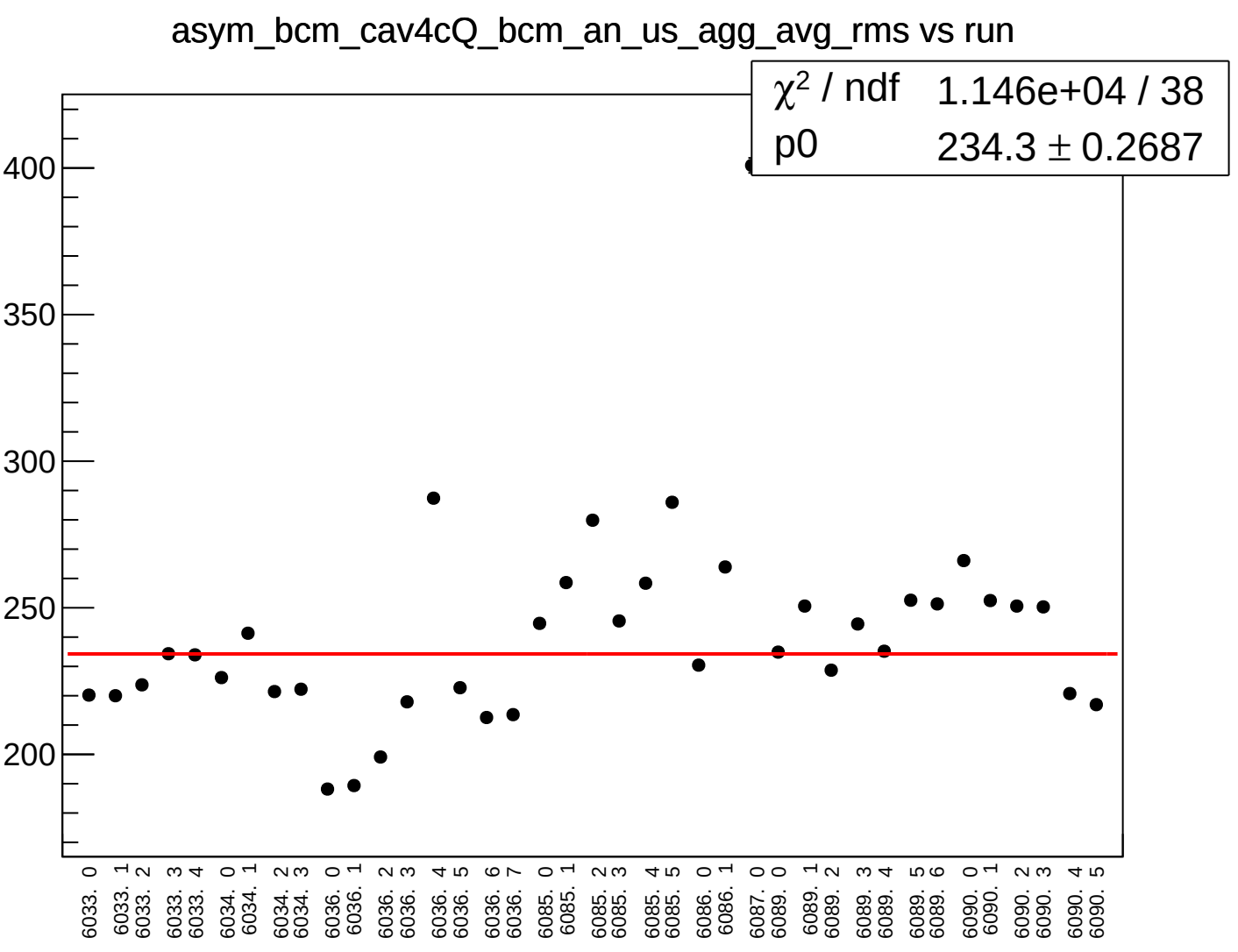

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.096e+04 / 38
p0 233.2 ± 0.2674
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

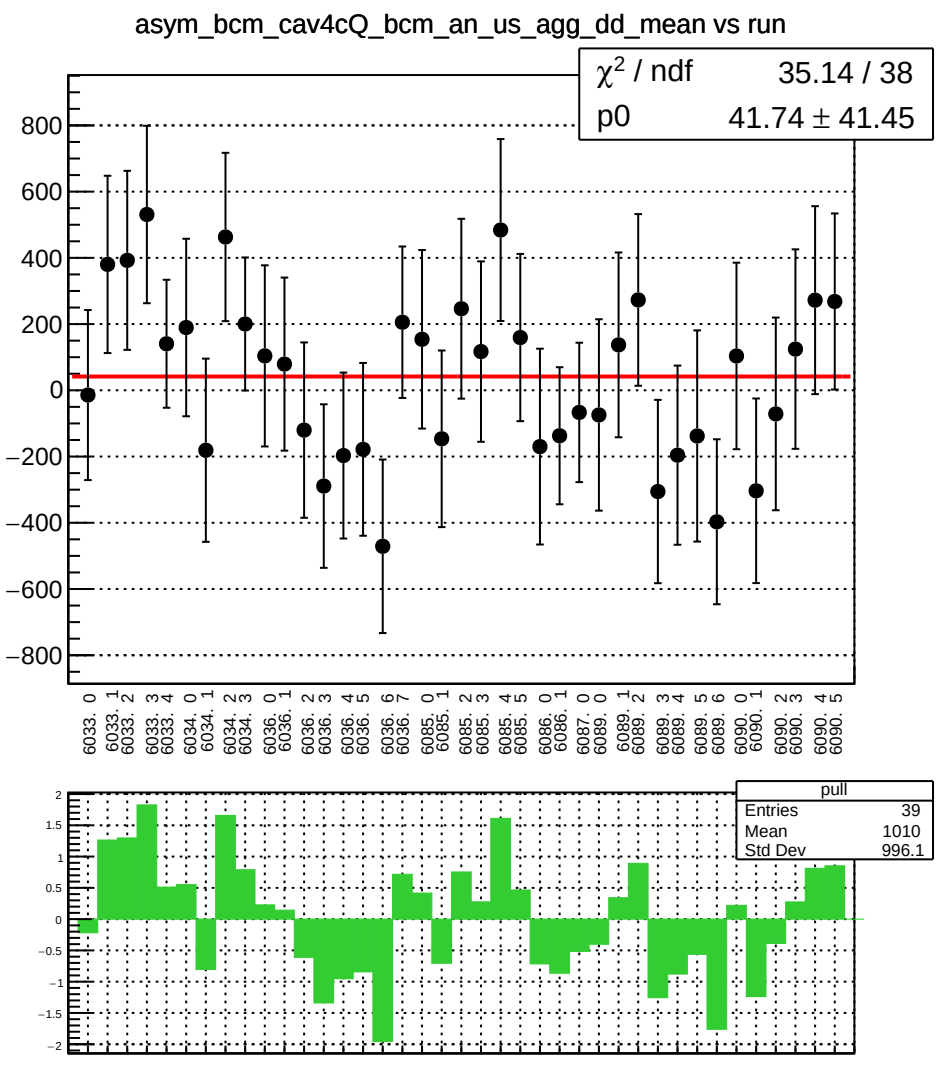

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 30.5 / 38
p0 −63.43 ± 38.82
pull
Entries 39
Mean 185.5
Std Dev 157.7

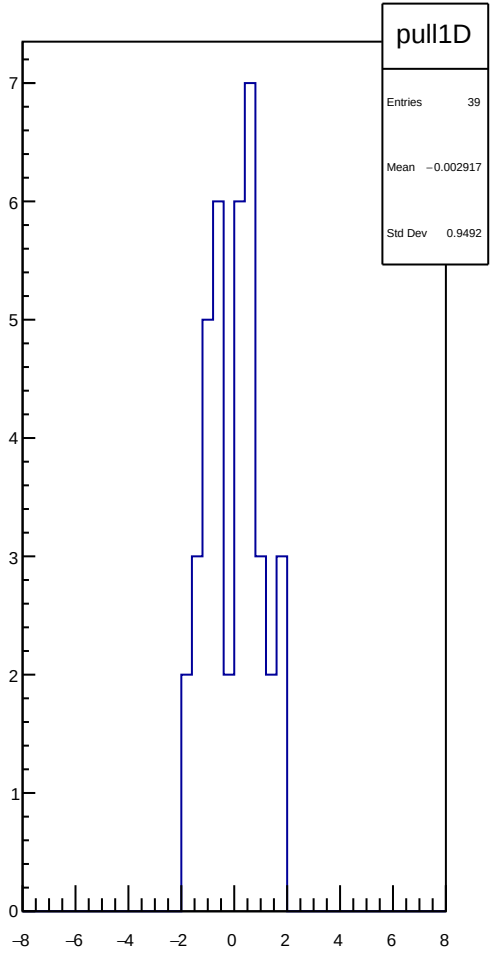

pull1D
Entries 39
Mean 0.00464
Std Dev 0.8844

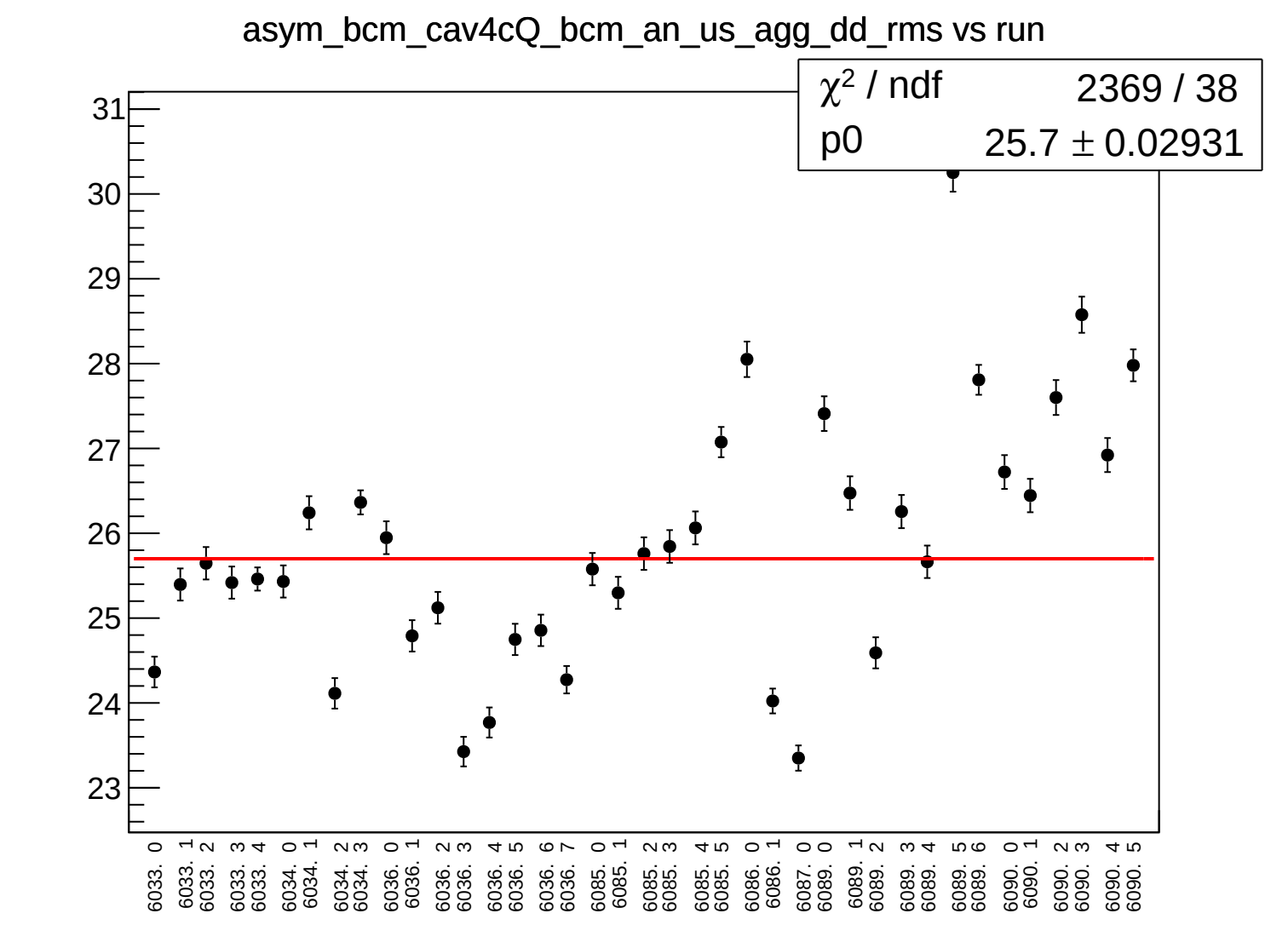

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1810 / 38
p0 24.08 ± 0.02745
27
26
25
24
23
22
21
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

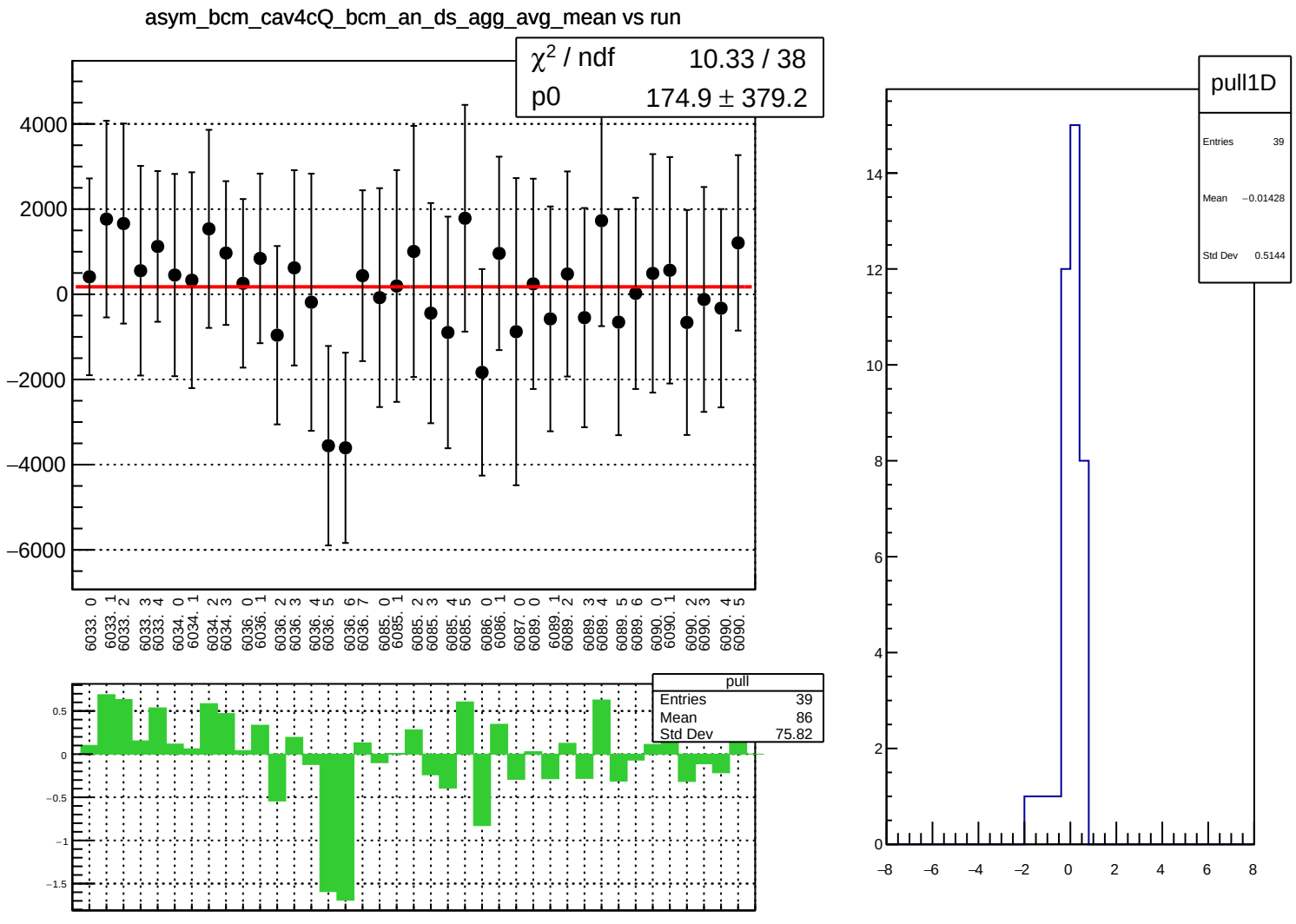

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.43 / 38
p0 119.9 ± 380
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 96.18
Std Dev 85.86
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01284
Std Dev 0.5169
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

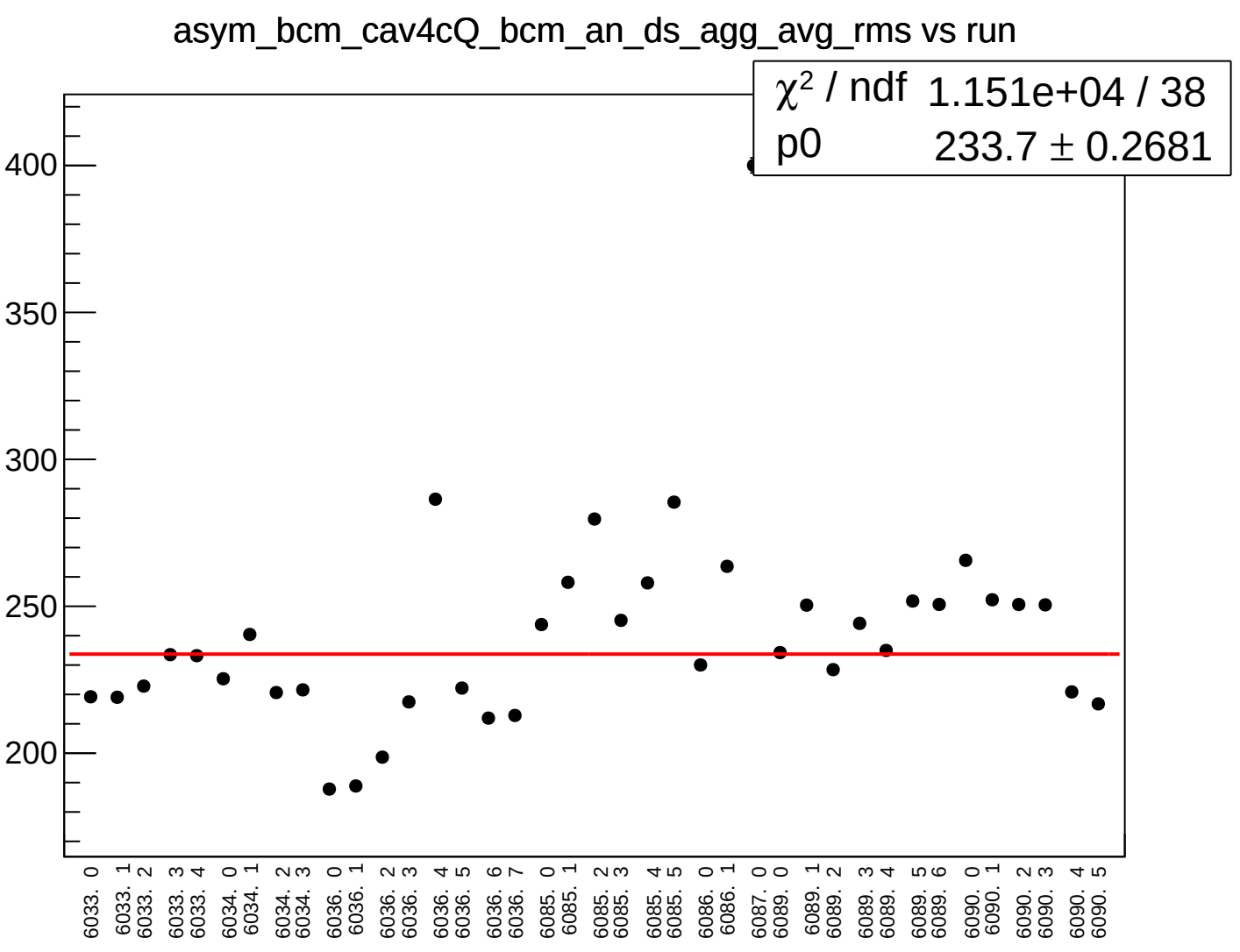

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.146e+04 / 38
p0 234.3 ± 0.2687
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

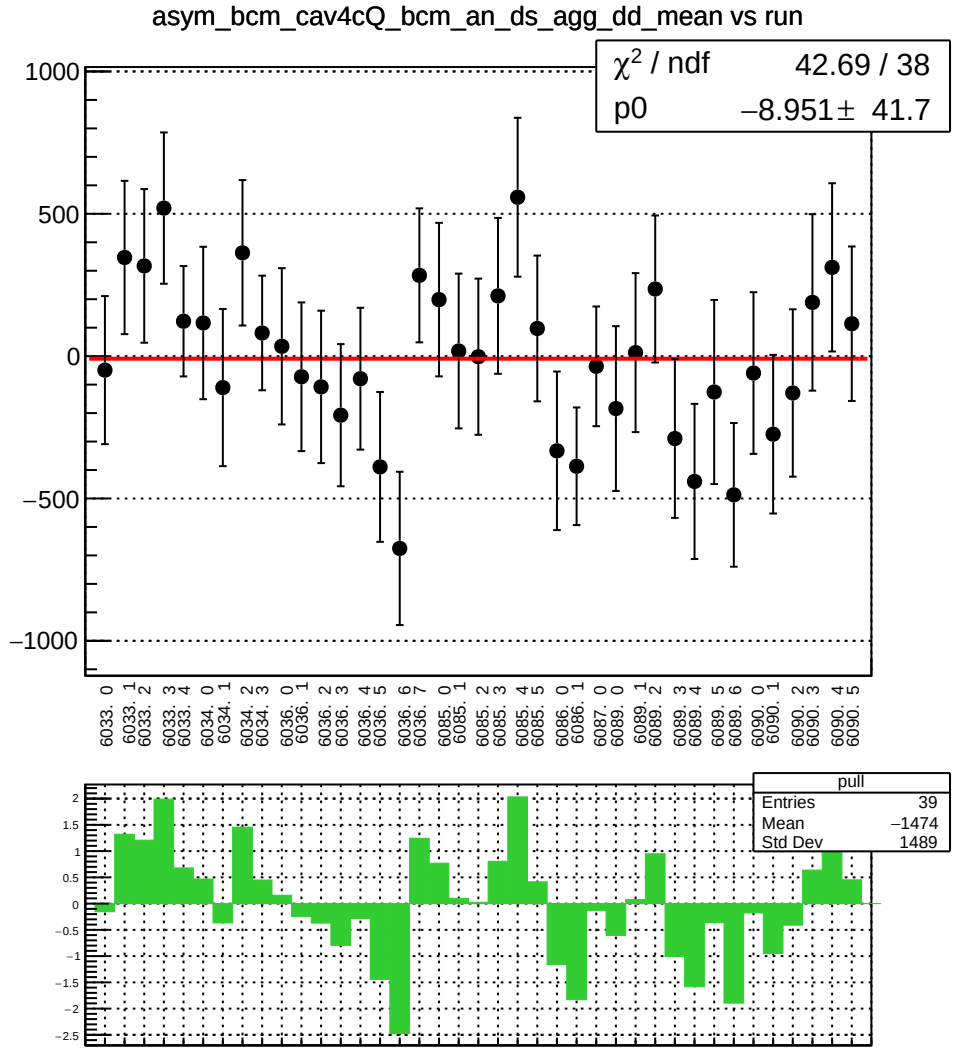

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 35.14 / 38
p0 41.74 ± 41.45
pull
Entries 39
Mean 1010
Std Dev 996.1

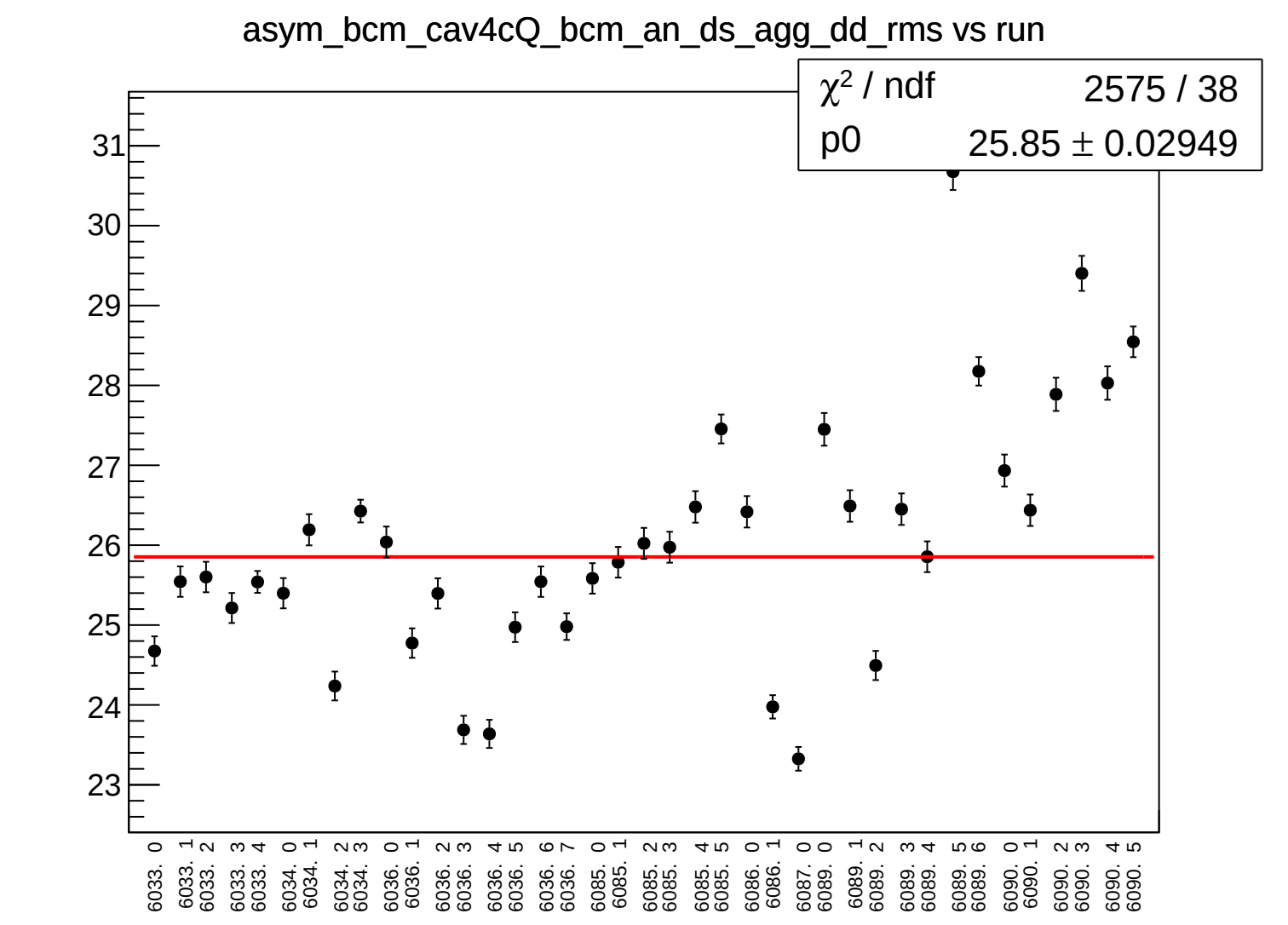

pull1D
Entries 39
Mean −0.002917
Std Dev 0.9492

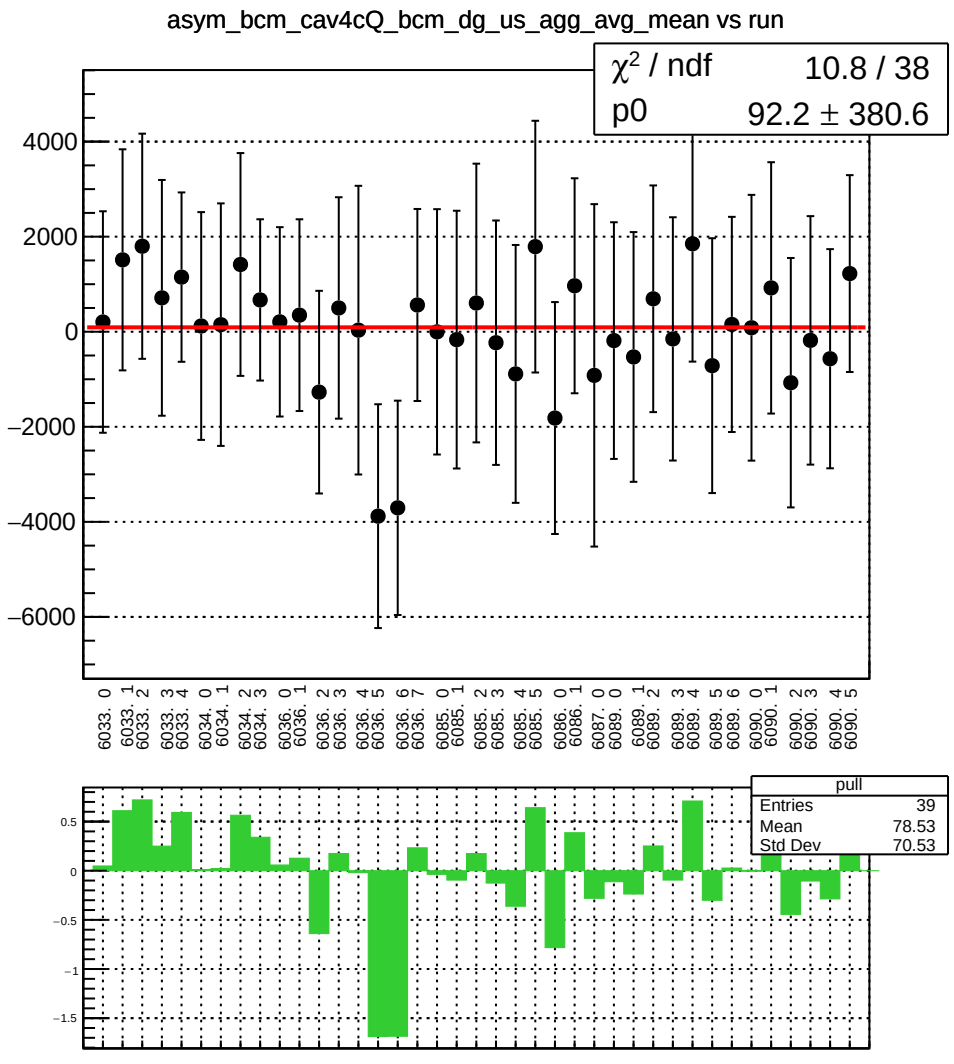

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2369 / 38
p0 25.7 ± 0.02931
31
30
29
28
27
26
25
24
23
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

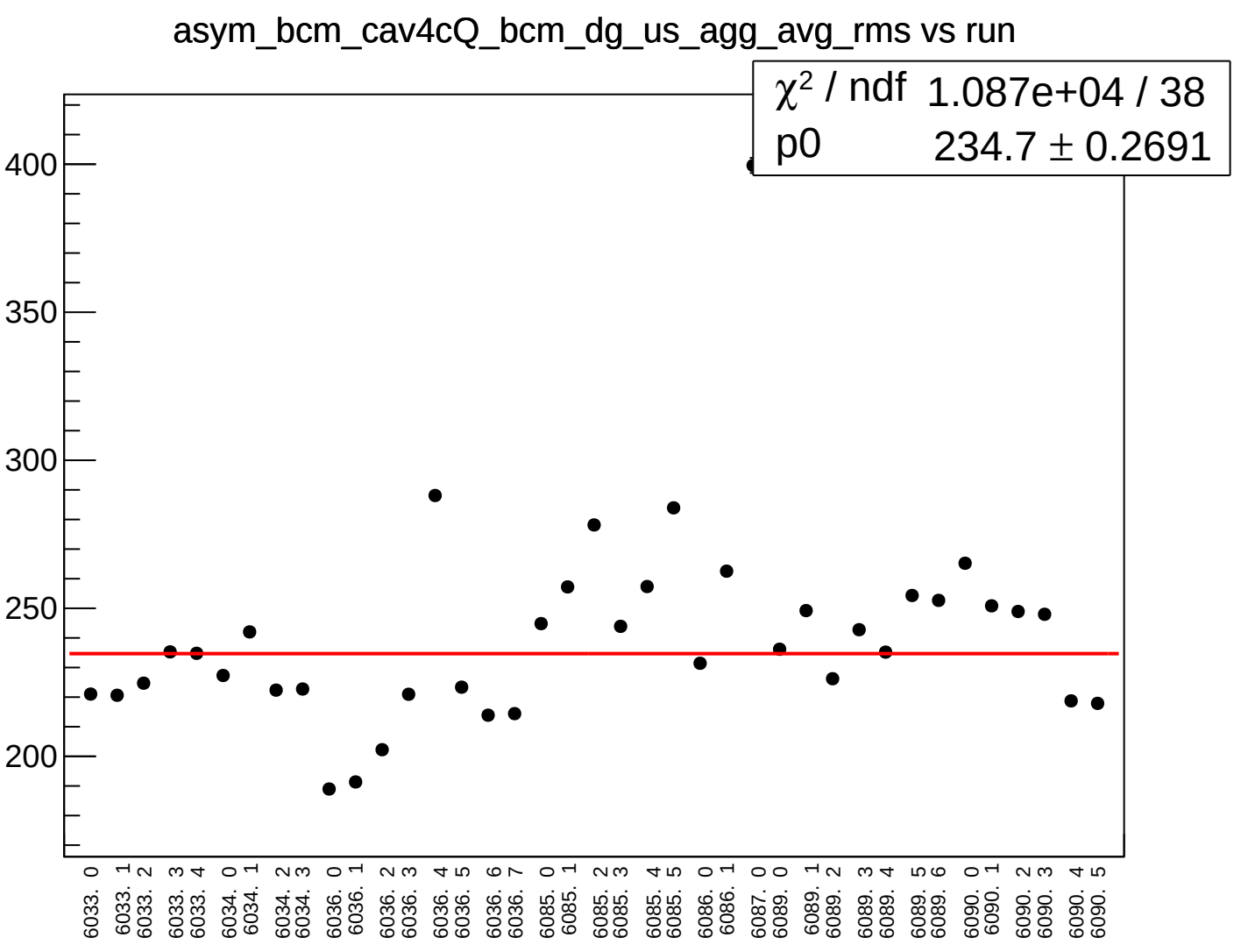

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.33 / 38
p0 174.9 ± 379.2
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 86
Std Dev 75.82
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01428
Std Dev 0.5144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

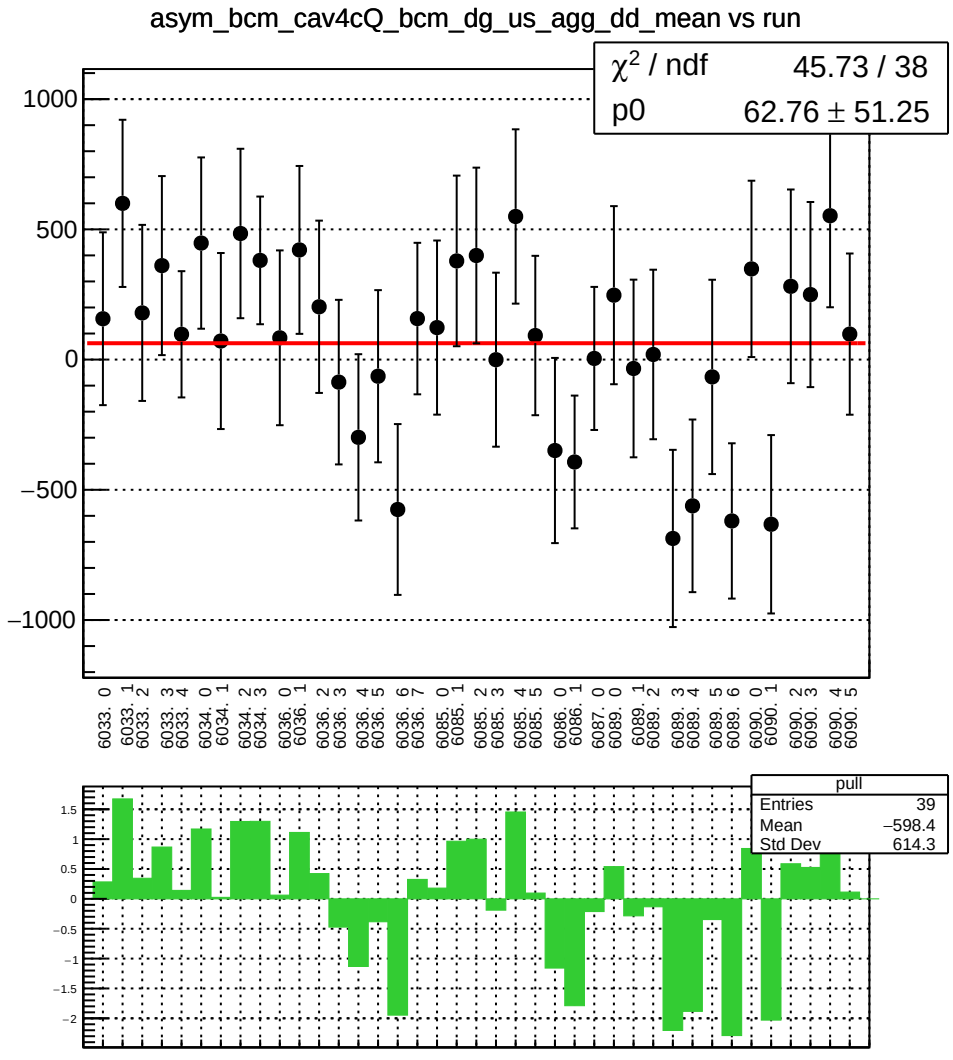

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.151e+04 / 38
p0 233.7 ± 0.2681
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

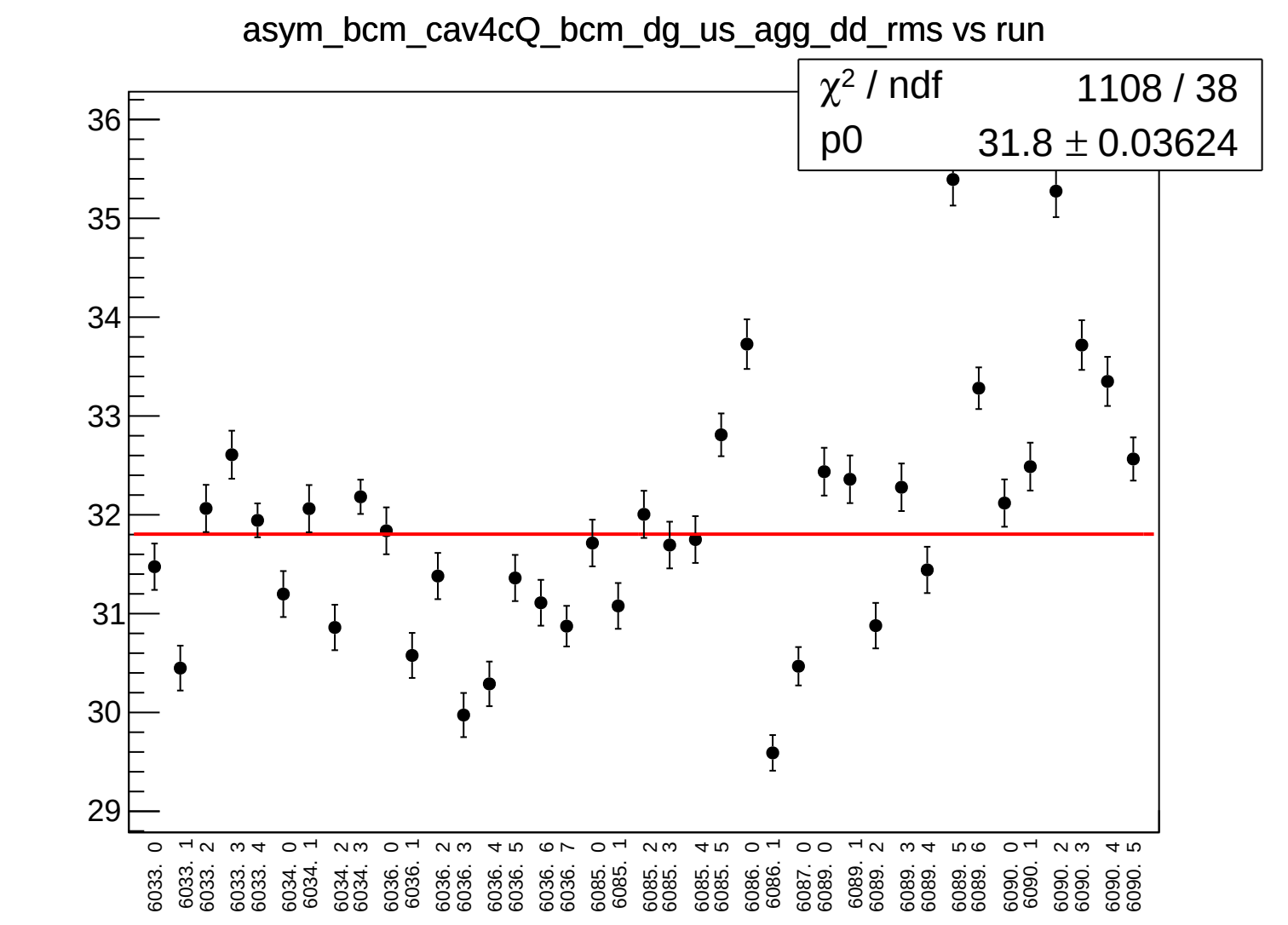

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 42.69 / 38
p0 −8.951 ± 41.7
1000
500
0
−500
−1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1474
Std Dev 1489
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.002221
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

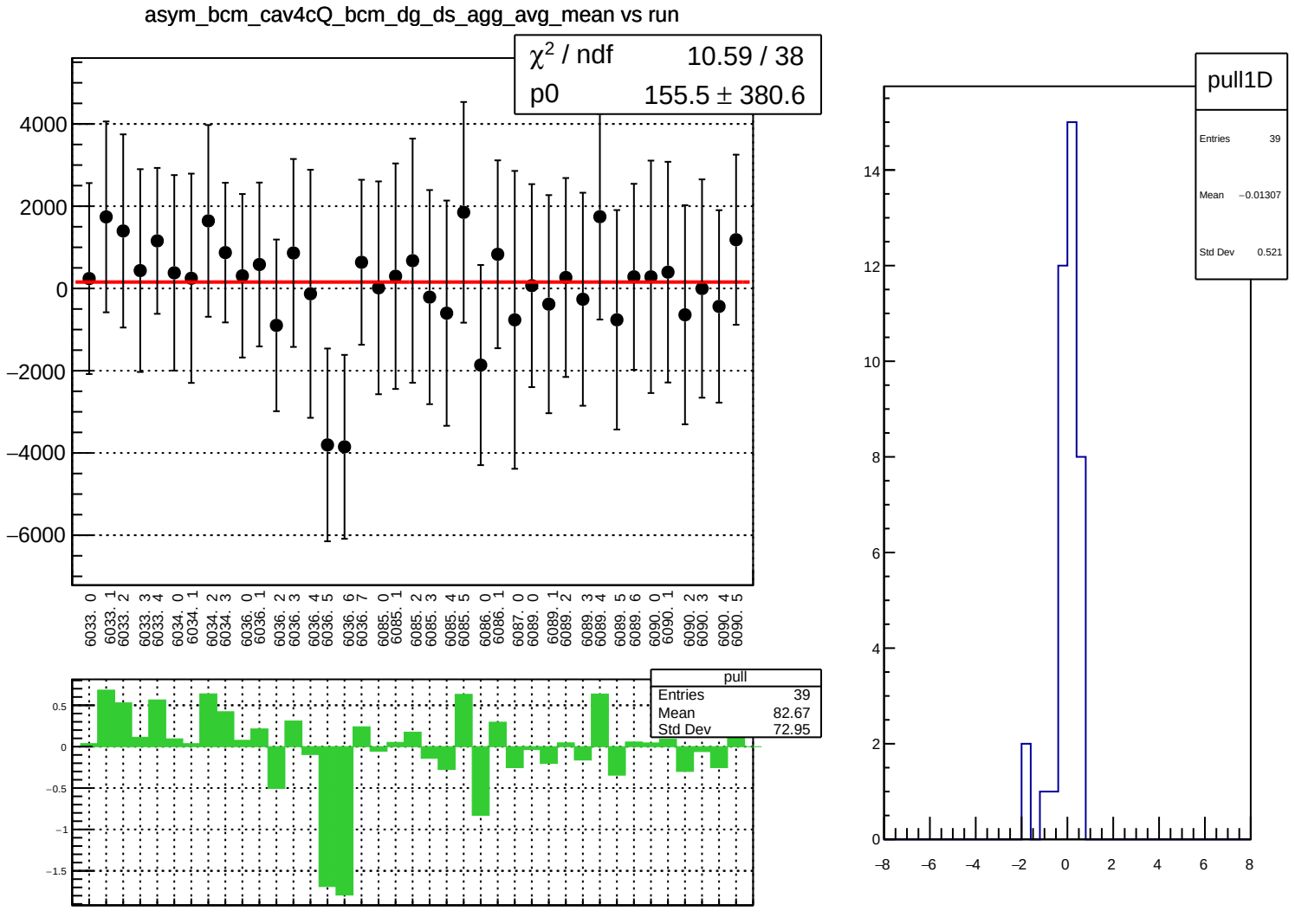

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2575 / 38
p0 25.85 ± 0.02949
31
30
29
28
27
26
25
24
23
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

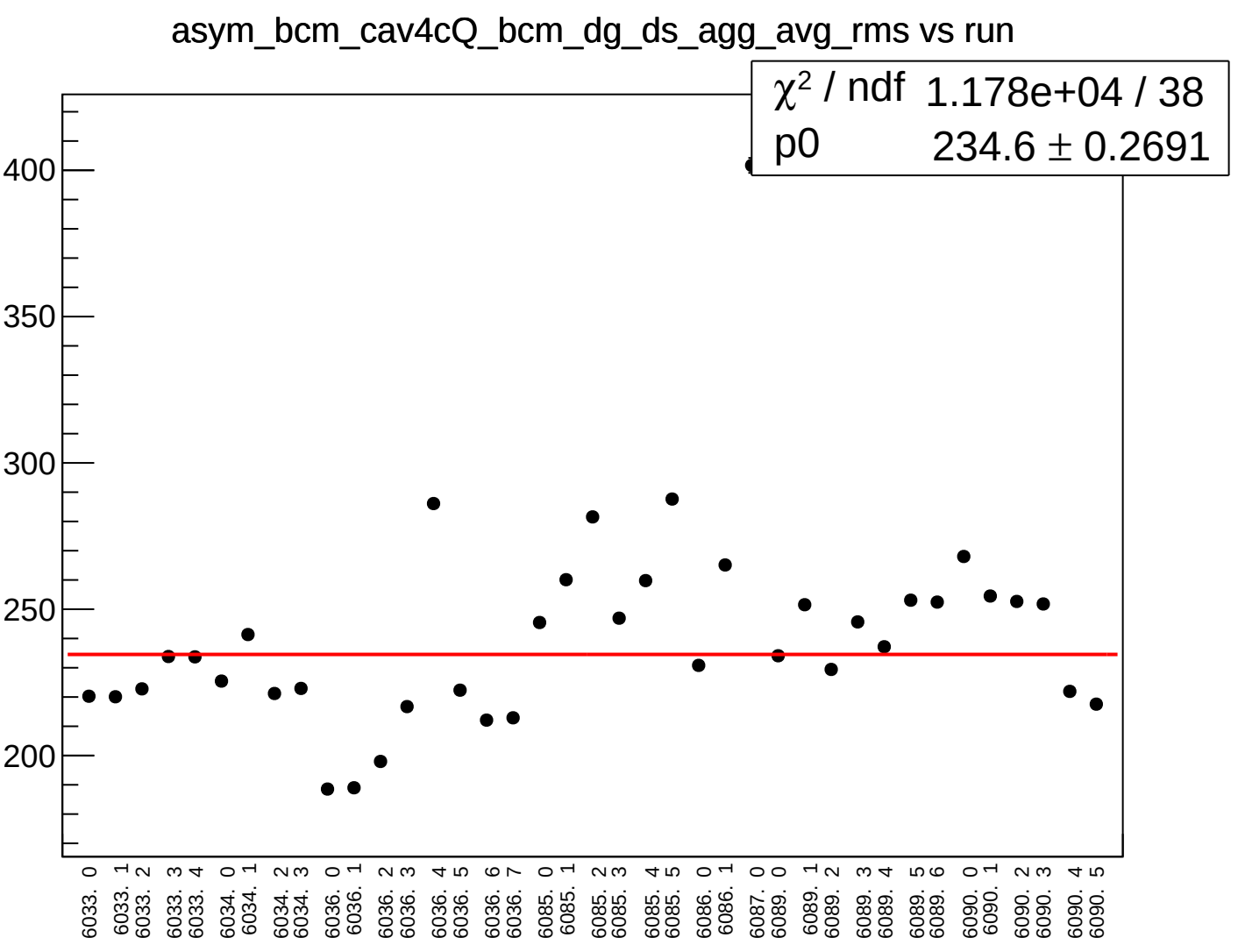

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 10.8 / 38
p0 92.2 ± 380.6
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 78.53
Std Dev 70.53
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01247
Std Dev 0.5261
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

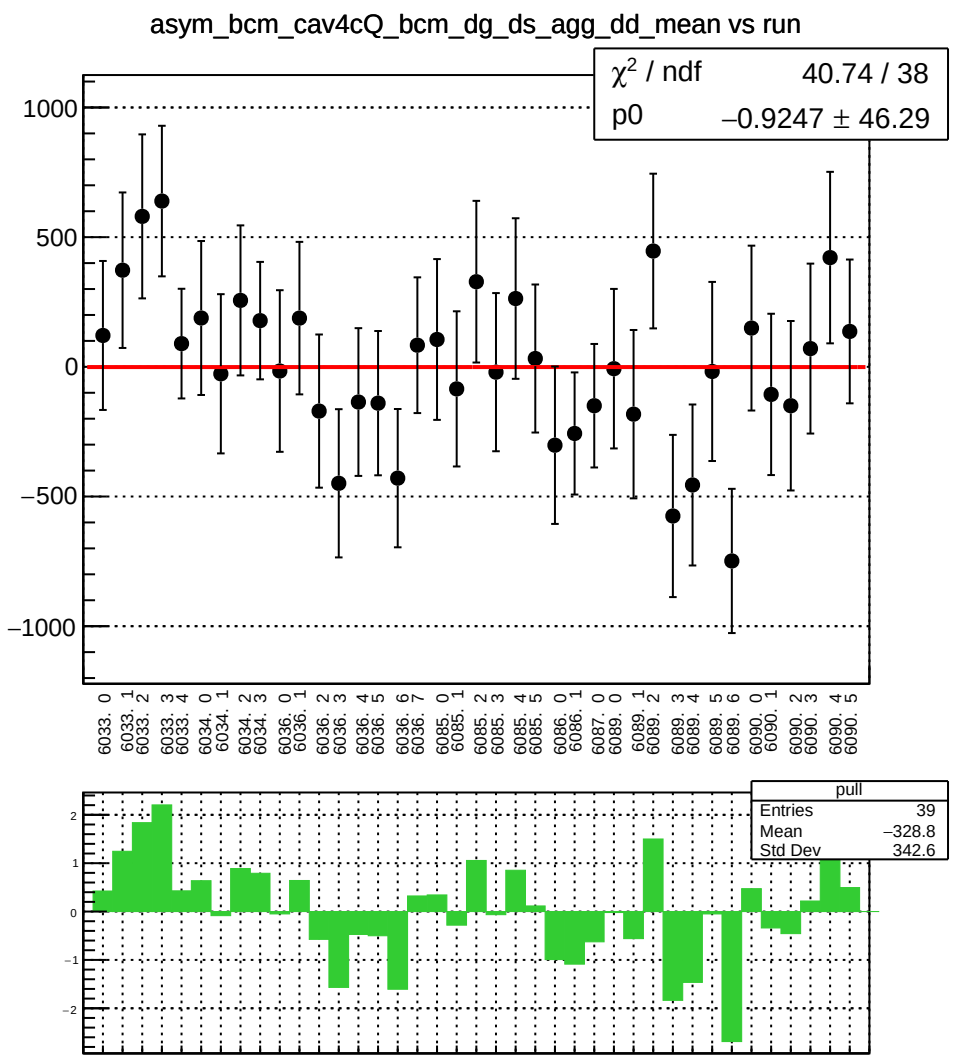

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.087e+04 / 38
p0 234.7 ± 0.2691
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

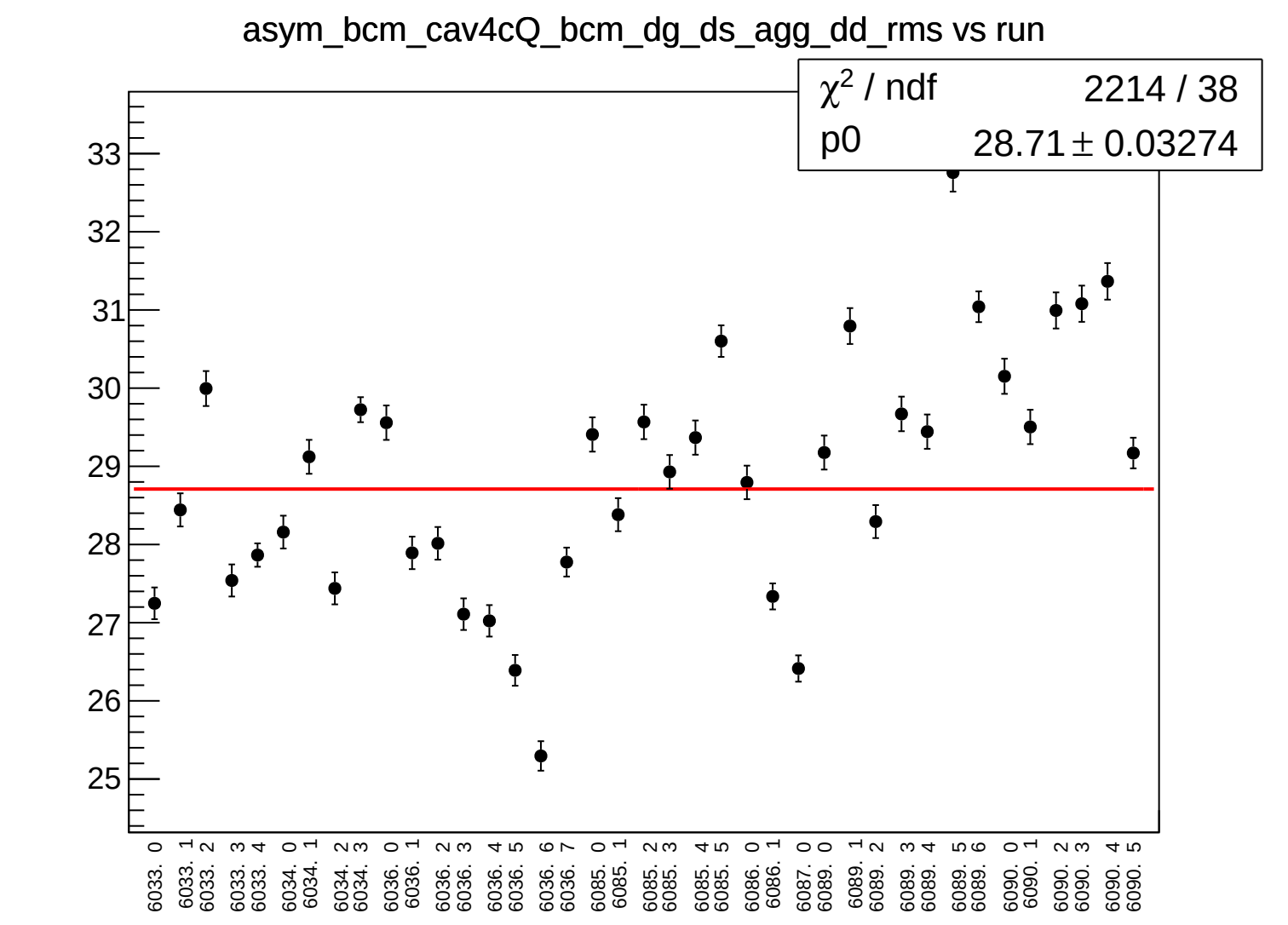

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 45.73 / 38
p0 62.76 ± 51.25
1000
500
0
−500
−1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −598.4
Std Dev 614.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.006708
Std Dev 1.083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

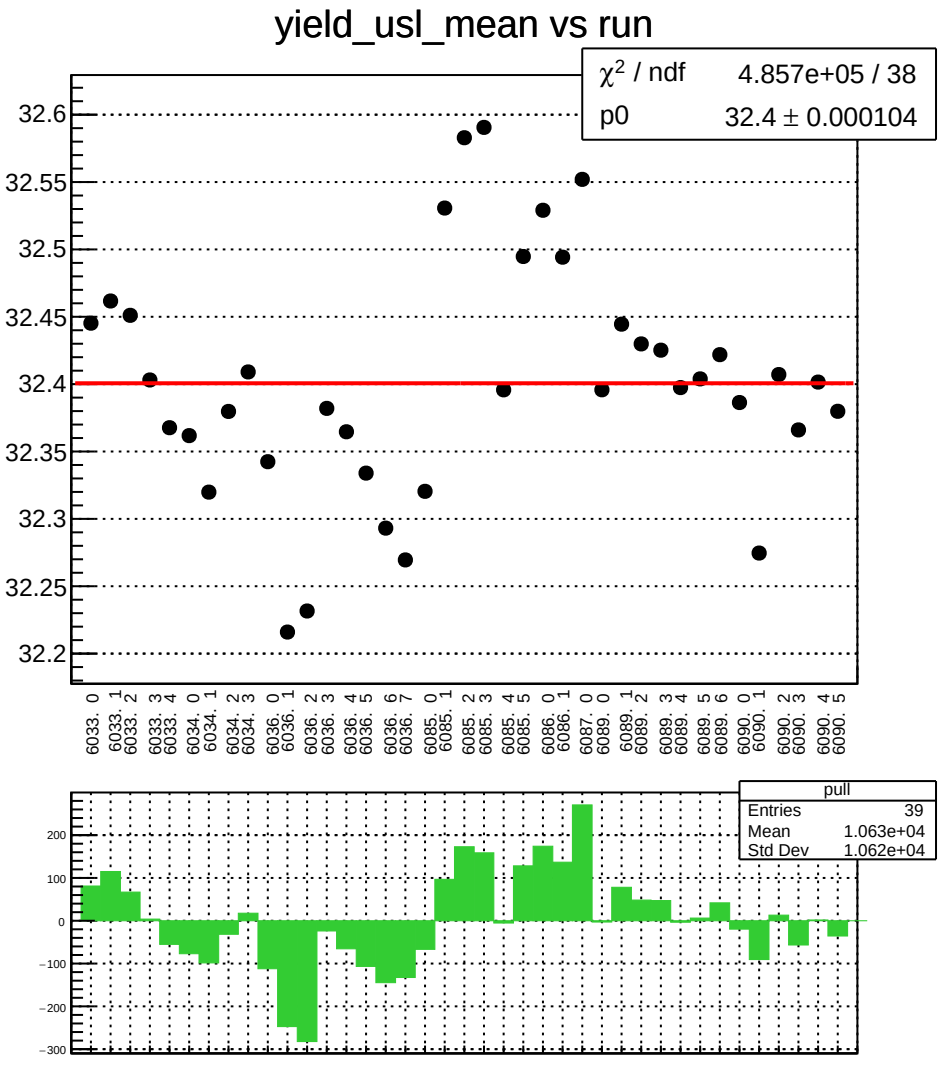

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1108 / 38
p0 31.8 ± 0.03624
36
35
34
33
32
31
30
29
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

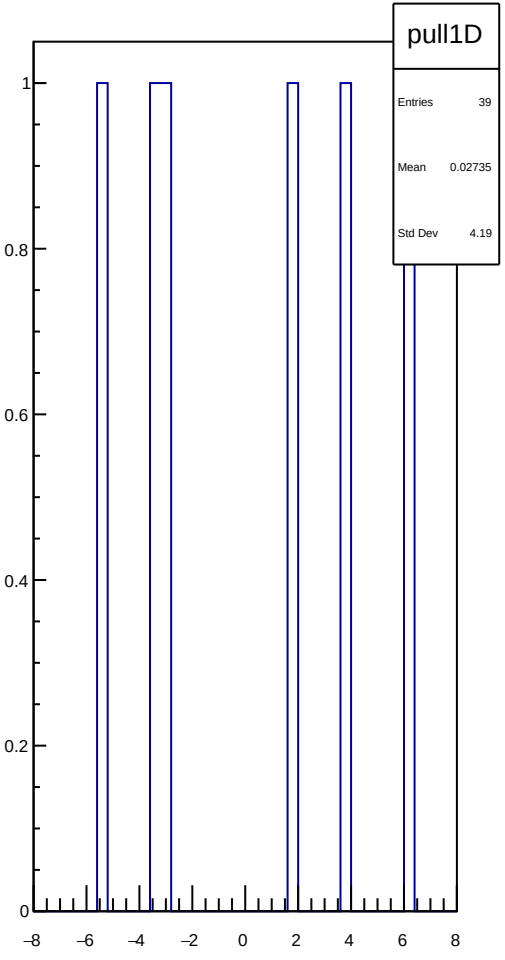

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 10.59 / 38
p0 155.5 ± 380.6
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 82.67
Std Dev 72.95
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01307
Std Dev 0.521
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

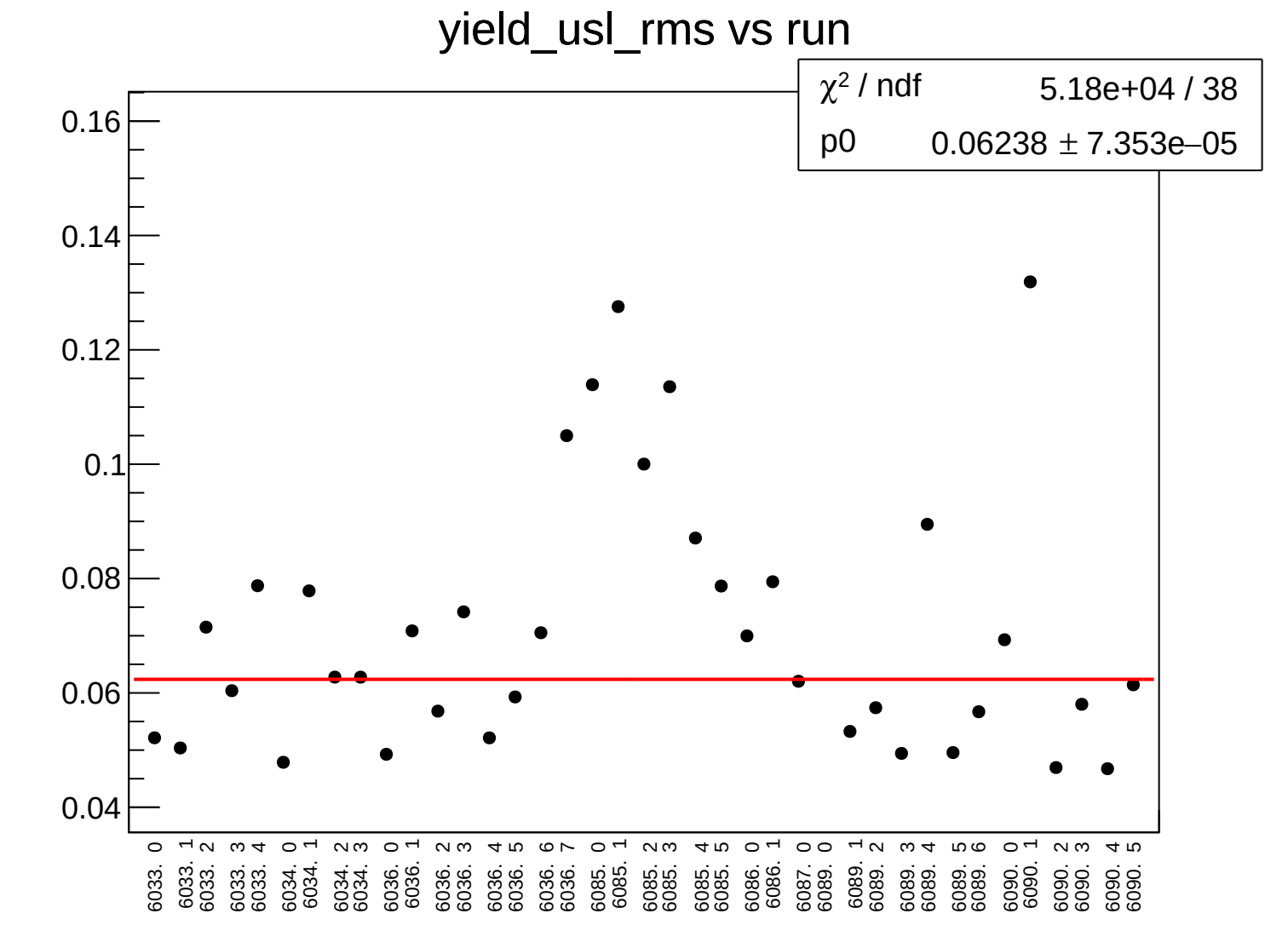

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.178e+04 / 38
p0 234.6 ± 0.2691
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

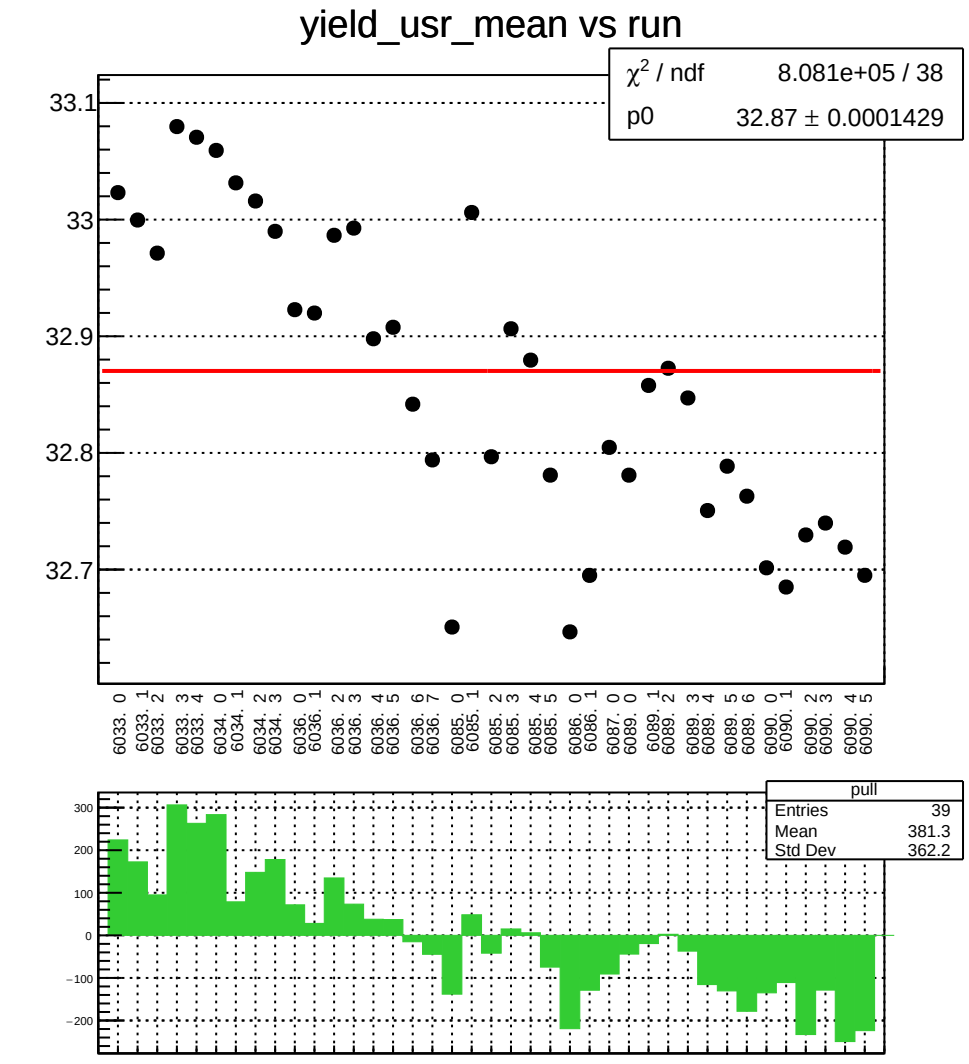

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 40.74 / 38
p0 −0.9247 ± 46.29
1000
500
0
−500
−1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −328.8
Std Dev 342.6
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.01118
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

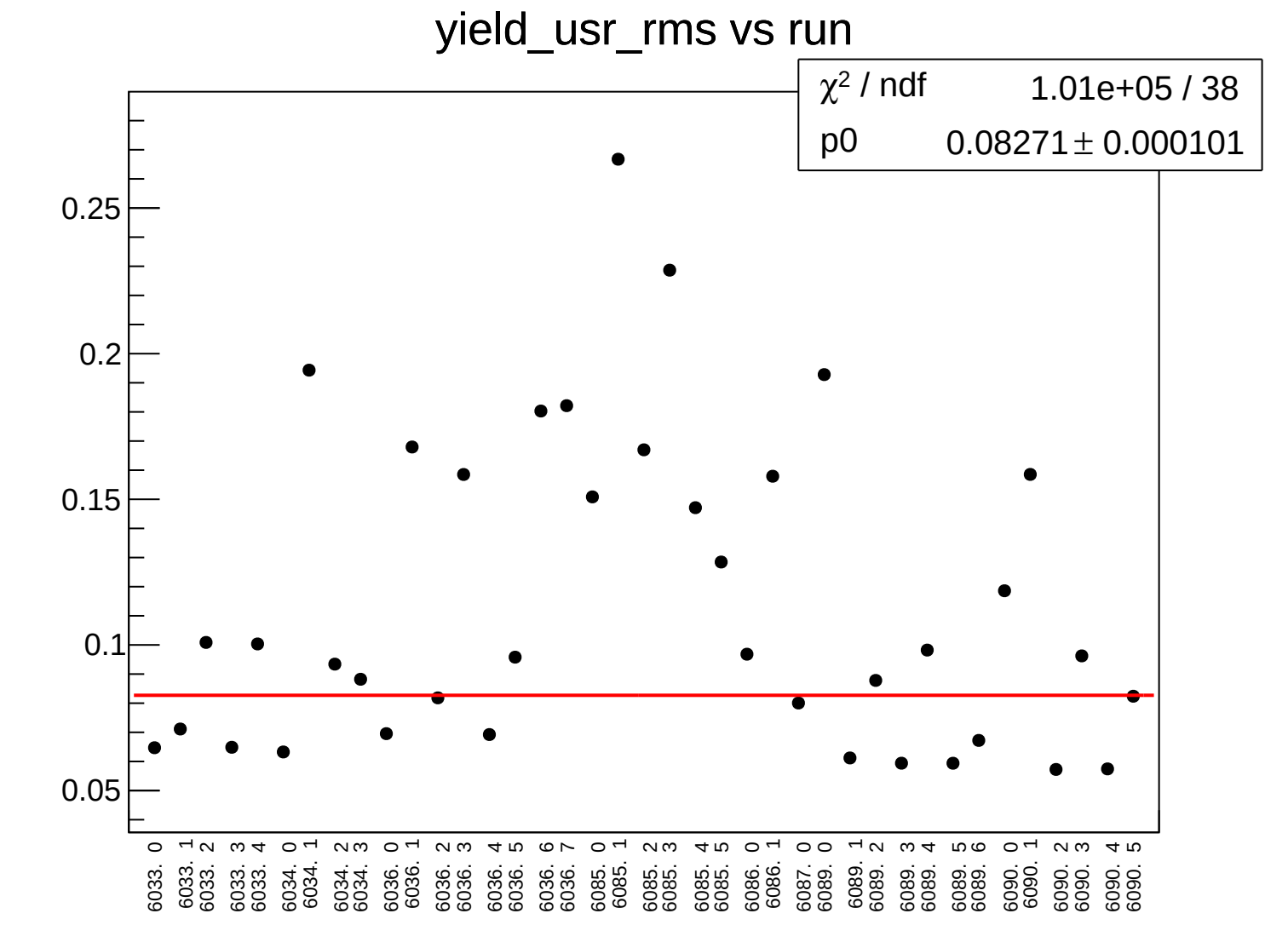

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2214 / 38
p0 28.71 ± 0.03274
33
32
31
30
29
28
27
26
25
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

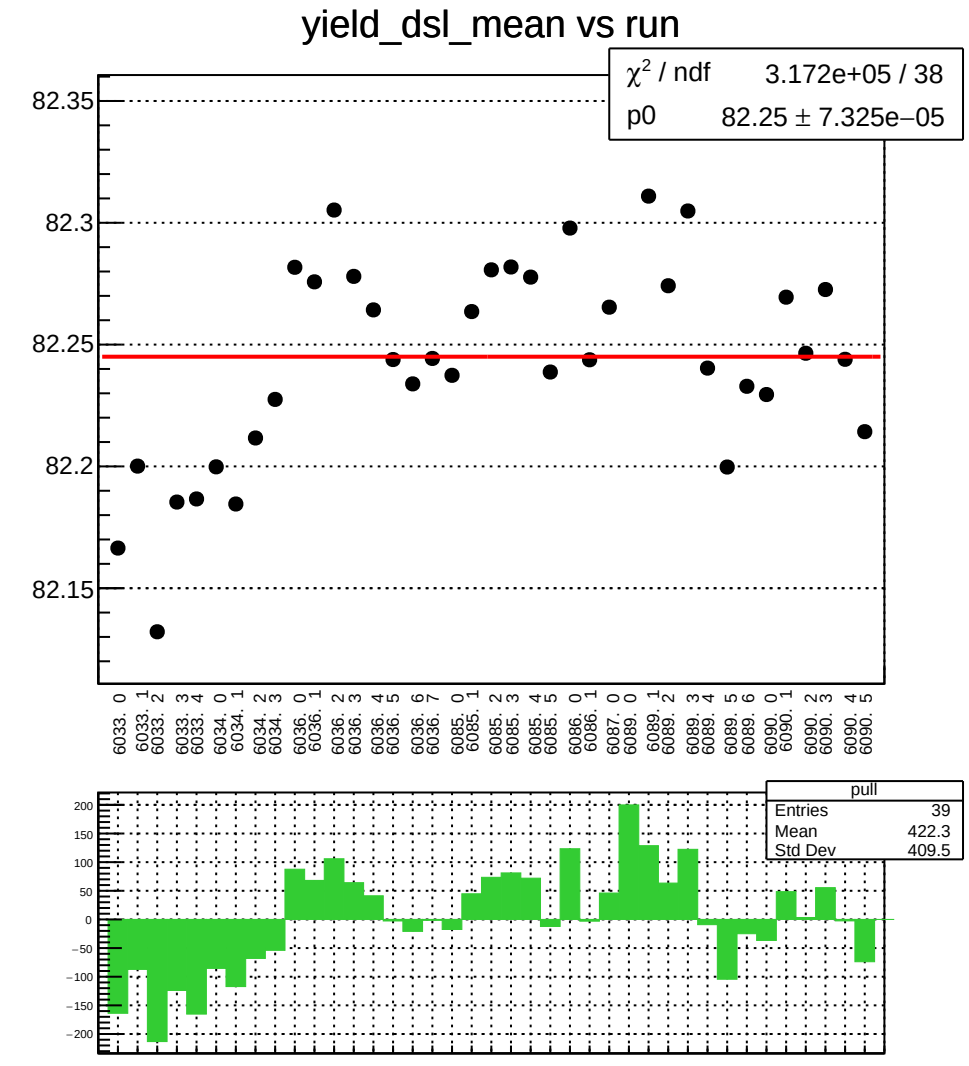

yield_usl_mean vs run
χ² / ndf 4.857e+05 / 38
p0 32.4 ± 0.000104
32.6
32.55
32.5
32.45
32.4
32.35
32.3
32.25
32.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 1.063e+04
Std Dev 1.062e+04
200
100
0
−100
−200
−300

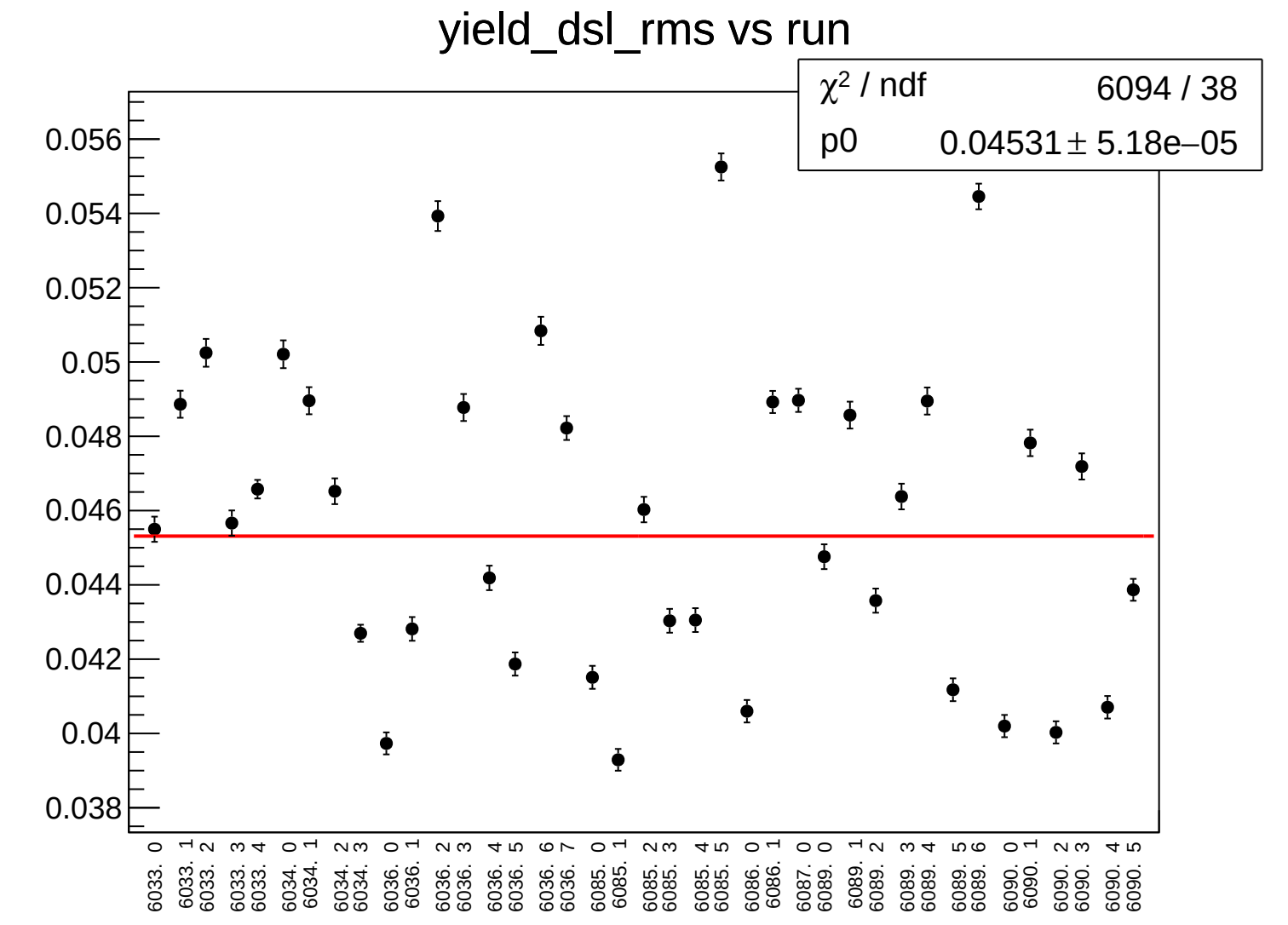

pull1D
Entries 39
Mean 0.02735
Std Dev 4.19
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

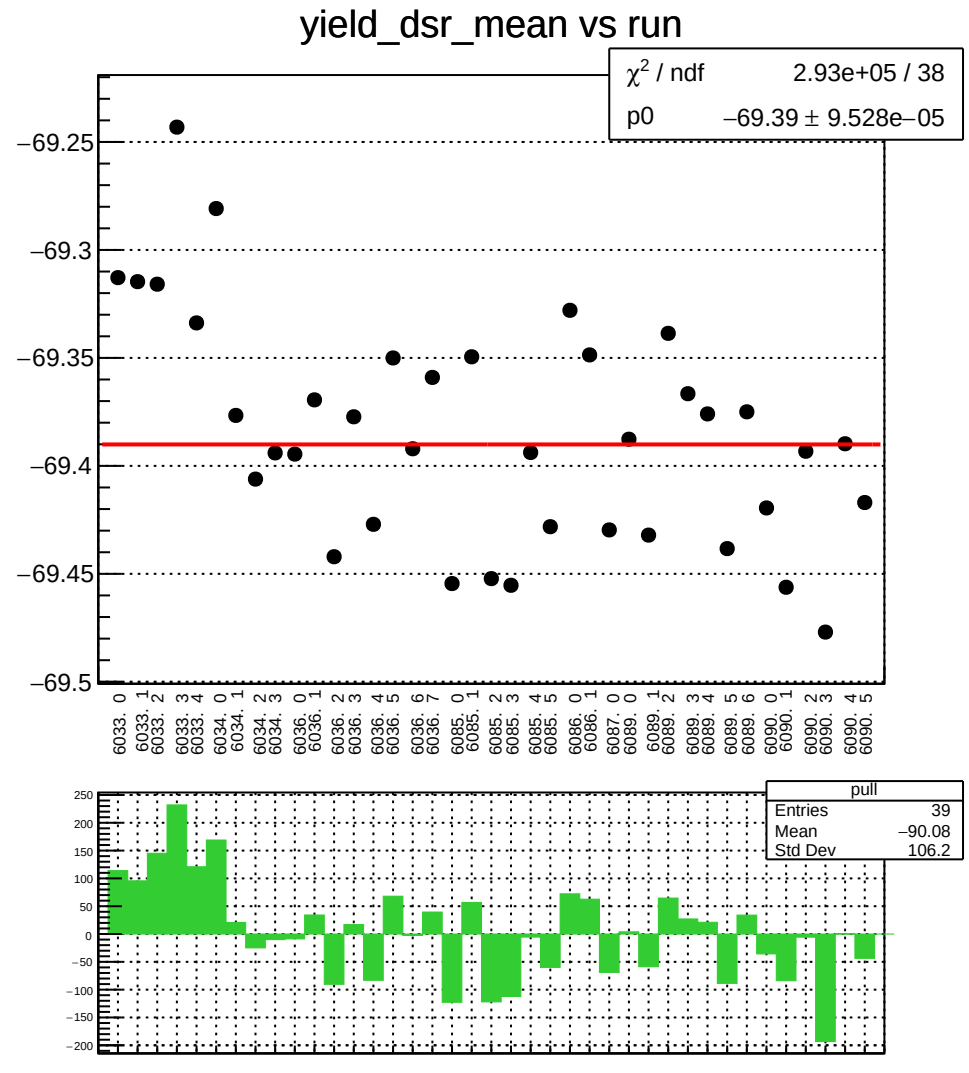

yield_usl_rms vs run
χ² / ndf 5.18e+04 / 38
p0 0.06238 ± 7.353e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

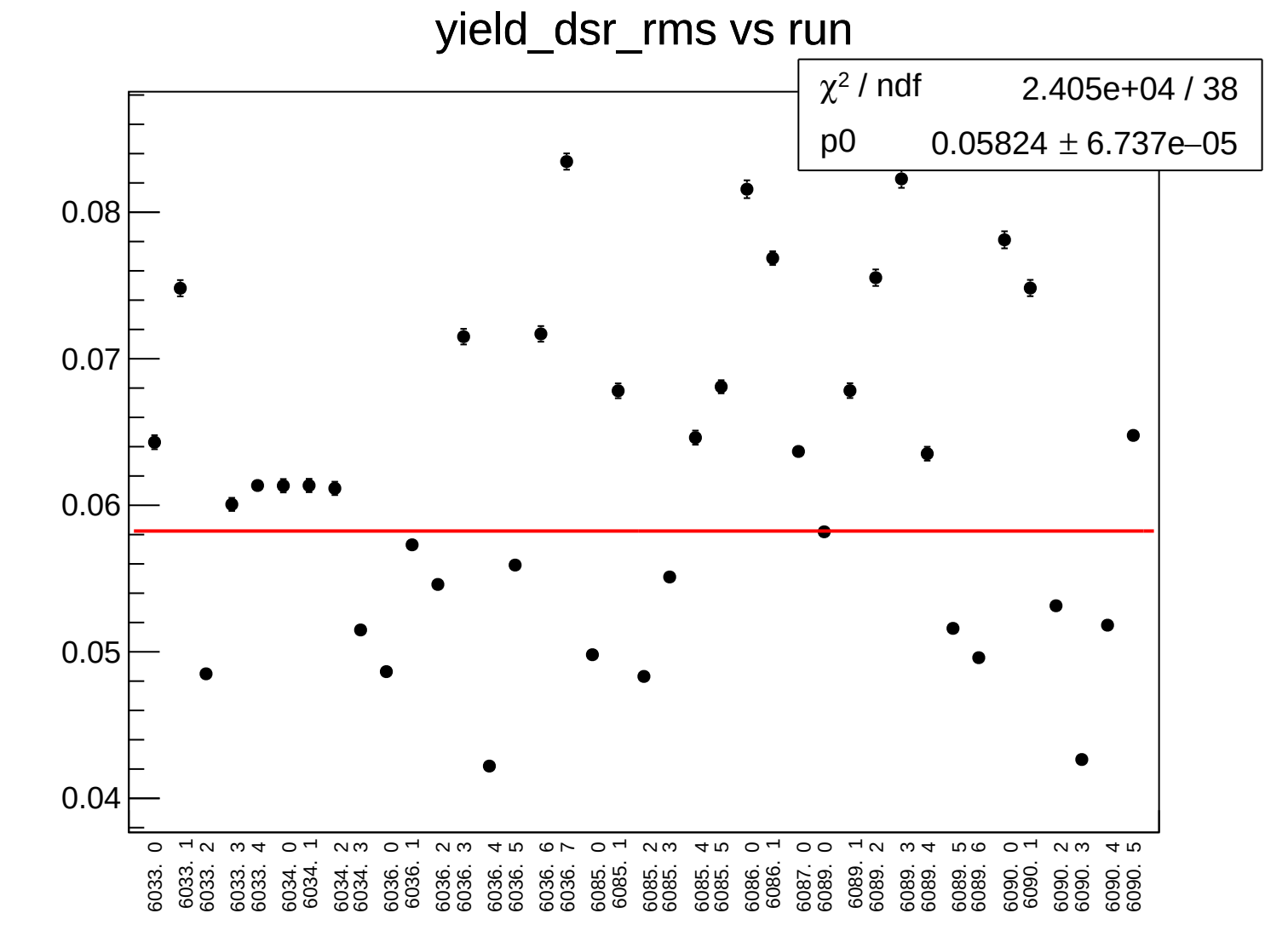

yield_usr_mean vs run
χ² / ndf 8.081e+05 / 38
p0 32.87 ± 0.0001429
33.1
33
32.9
32.8
32.7
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 381.3
Std Dev 362.2
300
200
100
0
−100
−200
pull1D
Entries 39
Mean 4.241
Std Dev 1.745
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

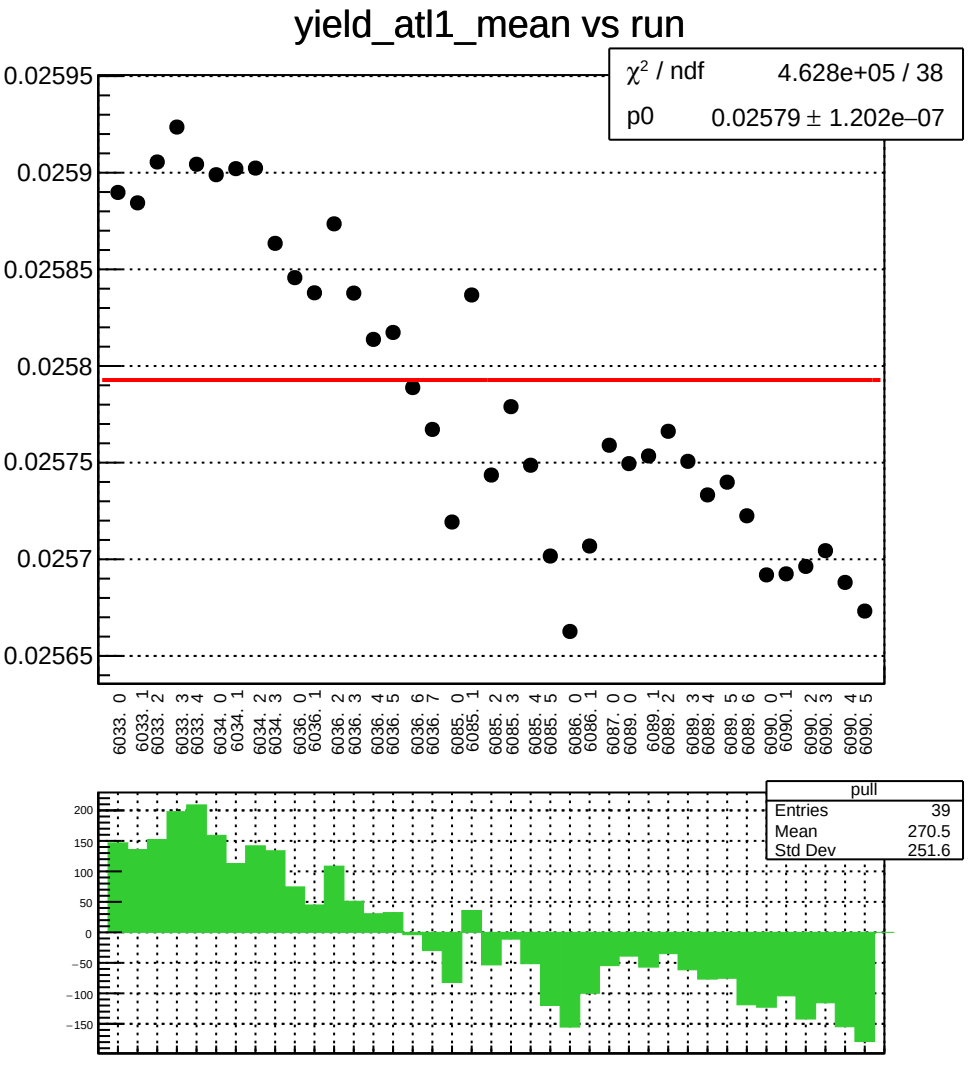

yield_usr_rms vs run
χ² / ndf 1.01e+05 / 38
p0 0.08271 ± 0.000101
0.25
0.2
0.15
0.1
0.05
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

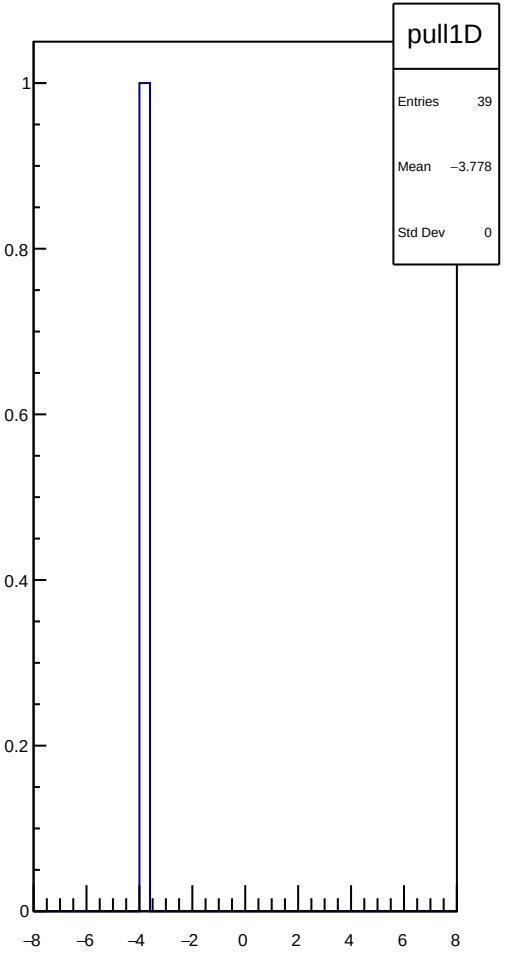

yield_dsl_mean vs run
χ² / ndf 3.172e+05 / 38
p0 82.25 ± 7.325e−05
82.35
82.3
82.25
82.2
82.15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 422.3
Std Dev 409.5
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 39
Mean −1.264
Std Dev 2.359
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

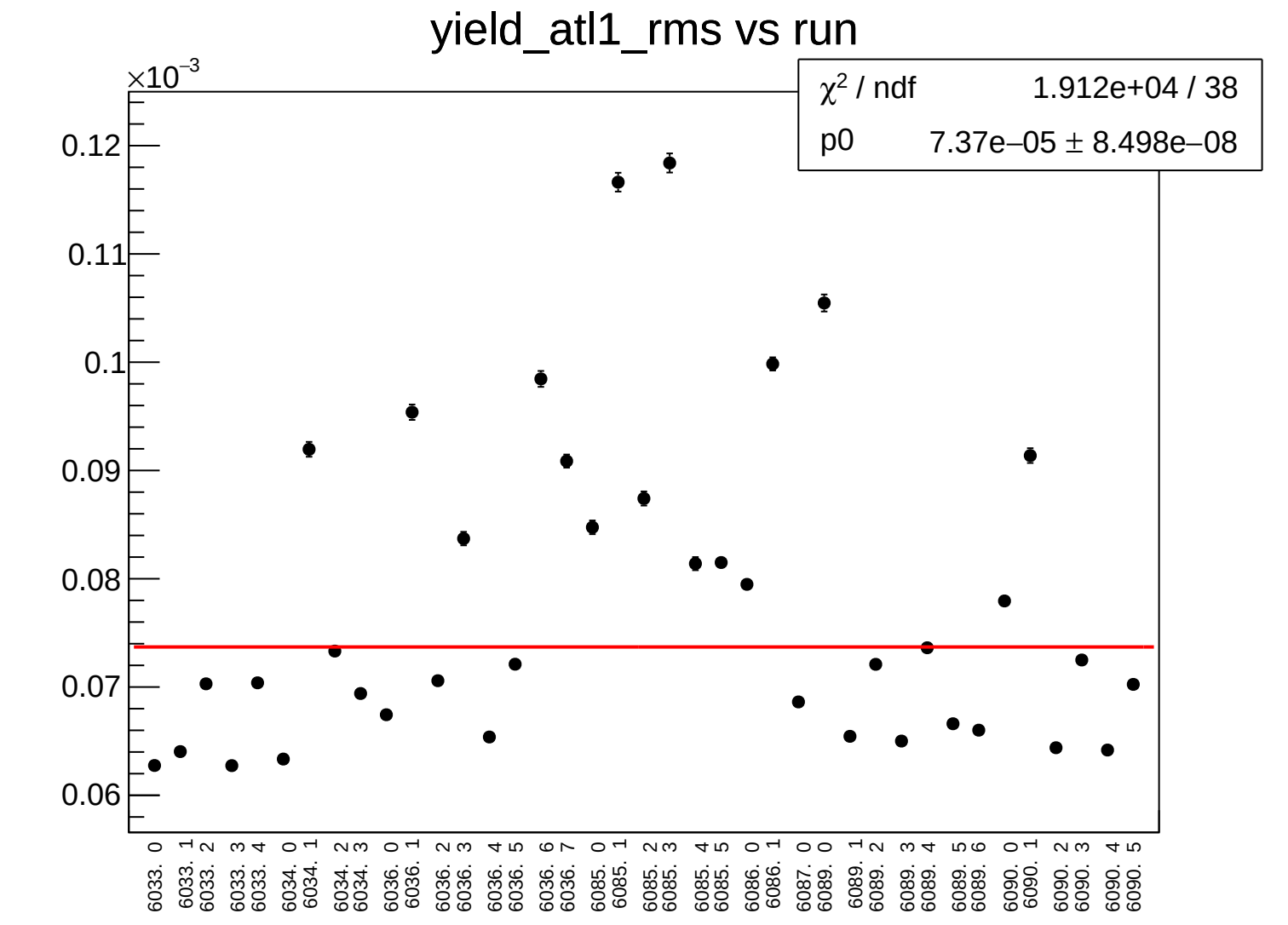

yield_dsl_rms vs run
χ² / ndf 6094 / 38
p0 0.04531 ± 5.18e−05
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

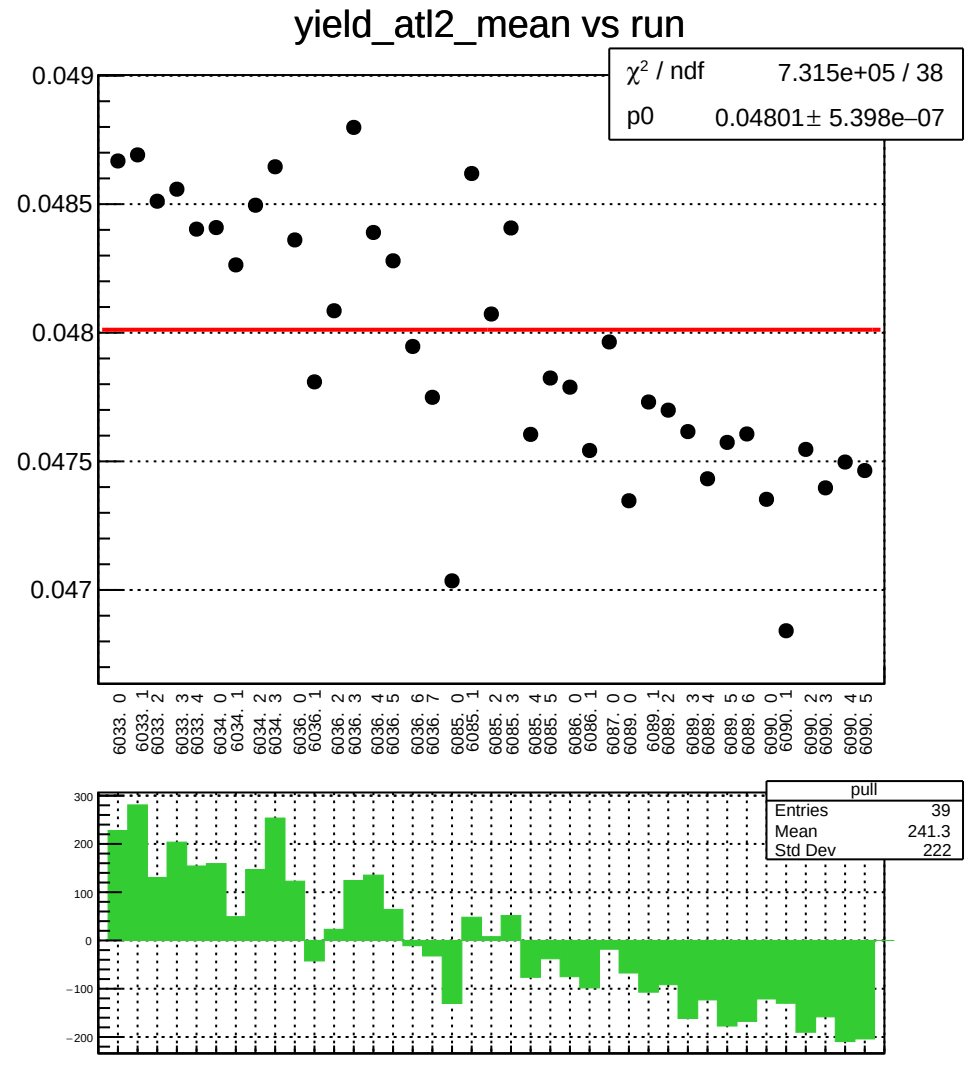

yield_dsr_mean vs run
χ² / ndf 2.93e+05 / 38
p0 −69.39 ± 9.528e−05
−69.25
−69.3
−69.35
−69.4
−69.45
−69.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −90.08
Std Dev 106.2
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 39
Mean −1.846
Std Dev 3.674
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

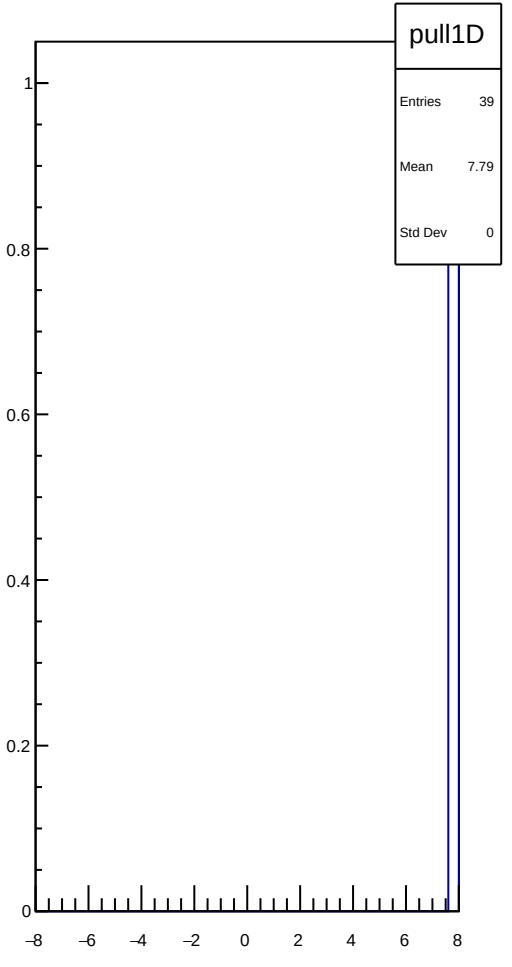

yield_dsr_rms vs run
χ² / ndf 2.405e+04 / 38
p0 0.05824 ± 6.737e−05
0.08
0.07
0.06
0.05
0.04
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

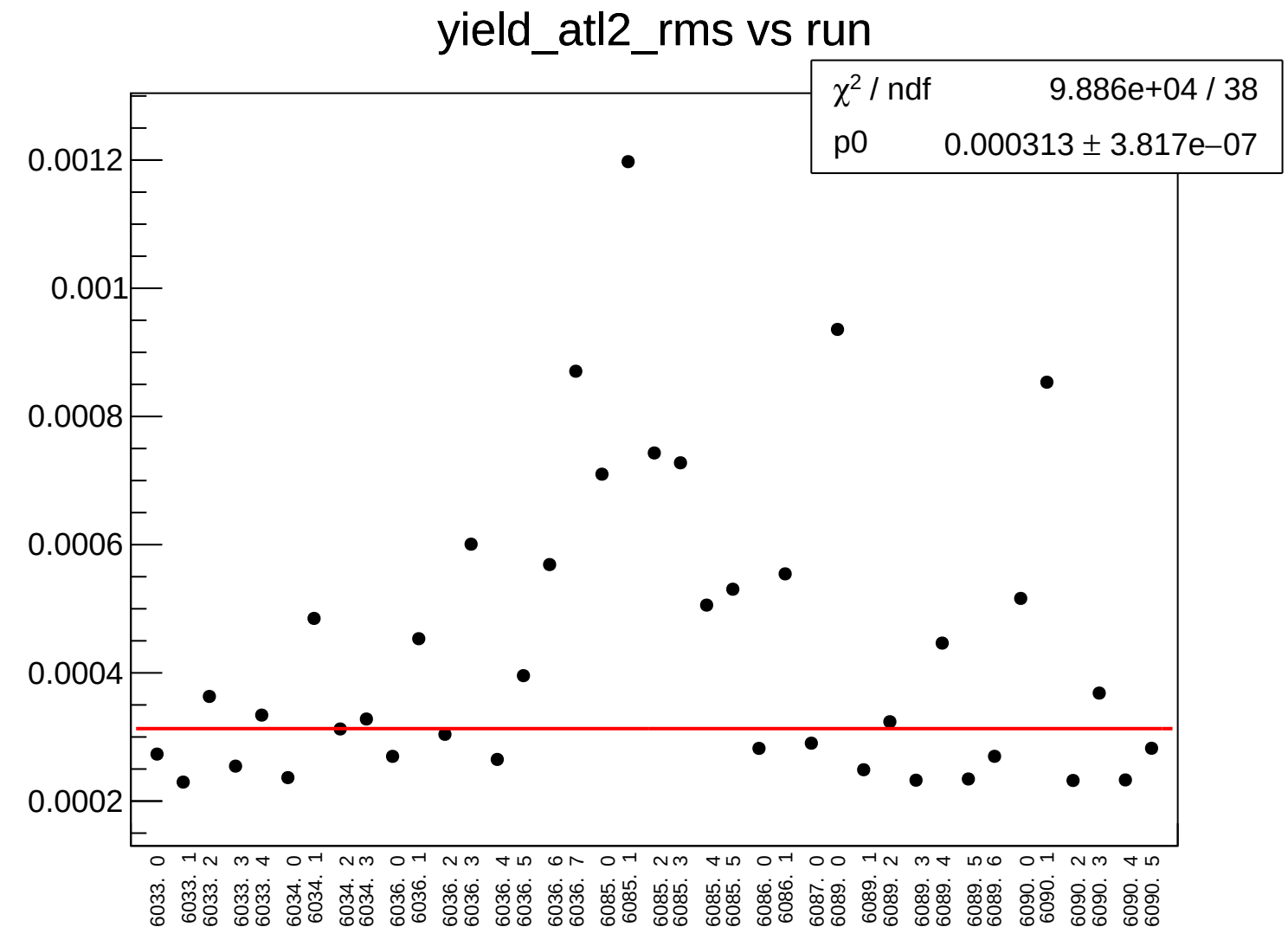

yield_atl1_mean vs run
χ² / ndf 4.628e+05 / 38
p0 0.02579 ± 1.202e−07
0.02595
0.0259
0.02585
0.0258
0.02575
0.0257
0.02565
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 270.5
Std Dev 251.6
200
150
100
50
0
−50
−100
−150

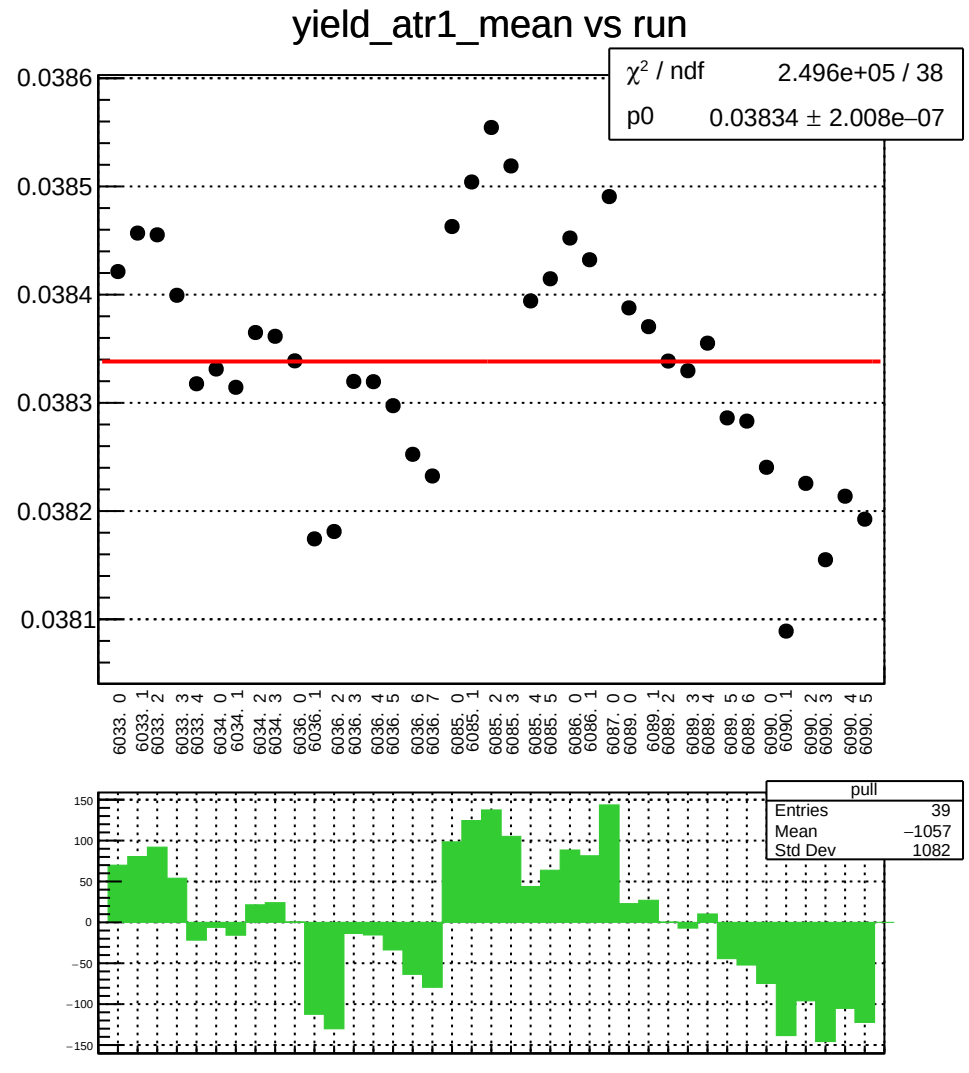

pull1D
Entries 39
Mean −3.778
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

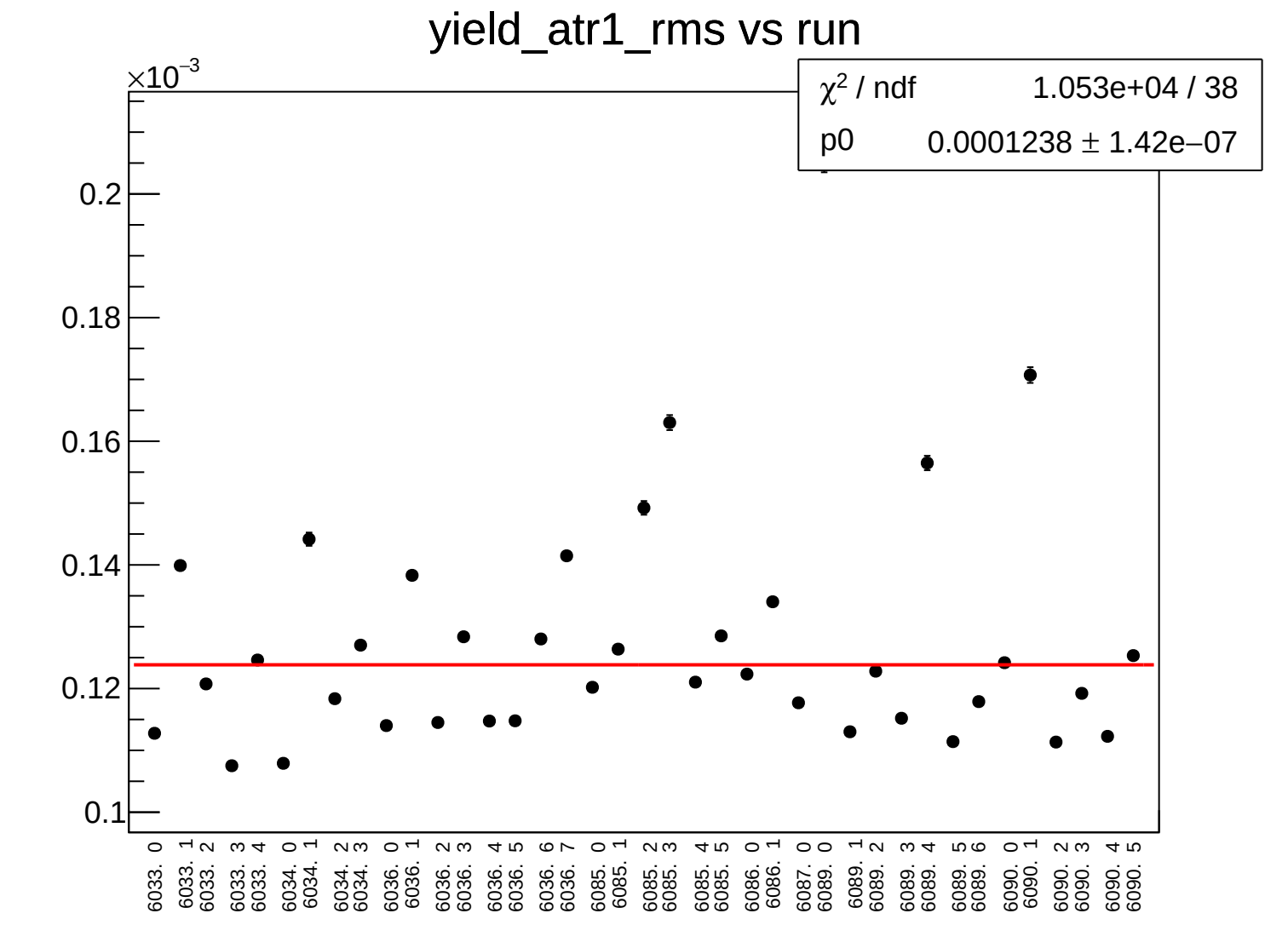

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.912e+04 / 38
p0 7.37e−05 ± 8.498e−08
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

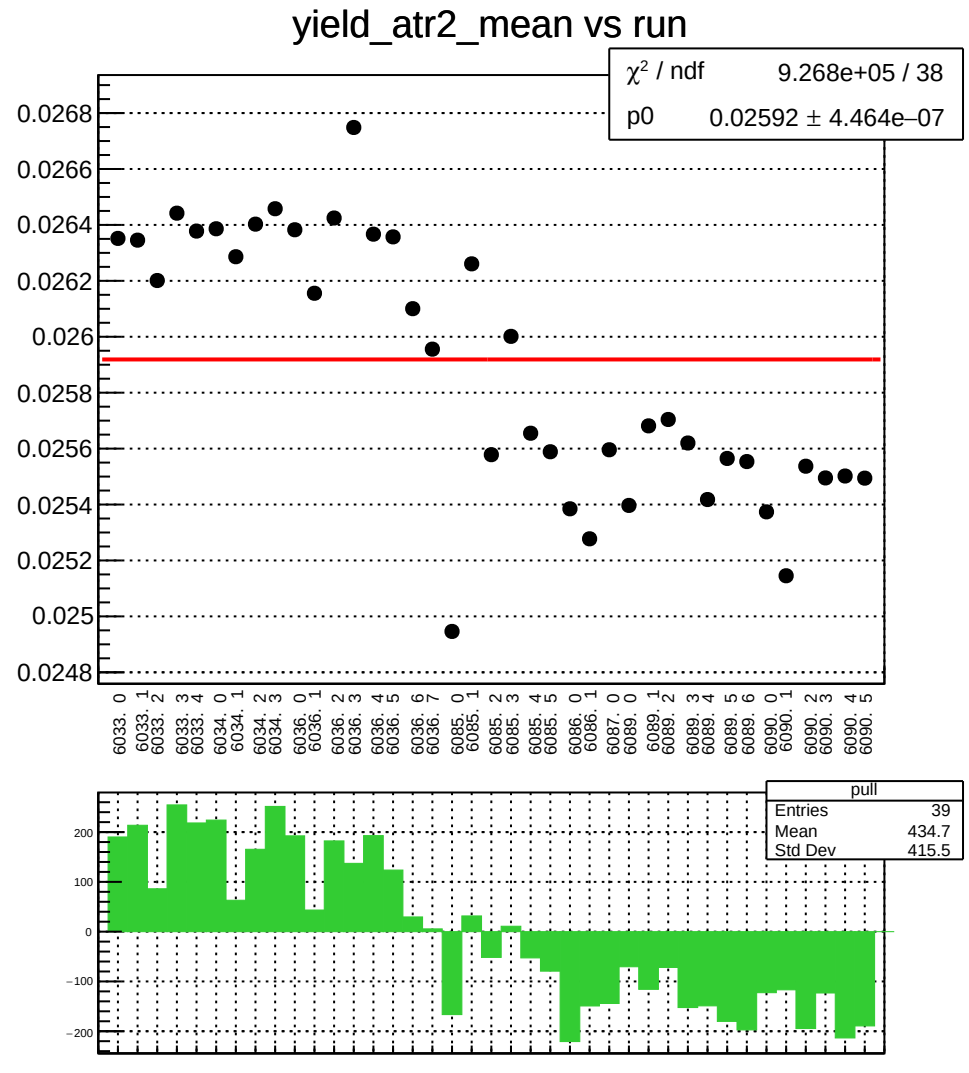

yield_atl2_mean vs run
χ² / ndf 7.315e+05 / 38
p0 0.04801± 5.398e–07
0.049
0.0485
0.048
0.0475
0.047
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 241.3
Std Dev 222
300
200
100
0
–100
–200

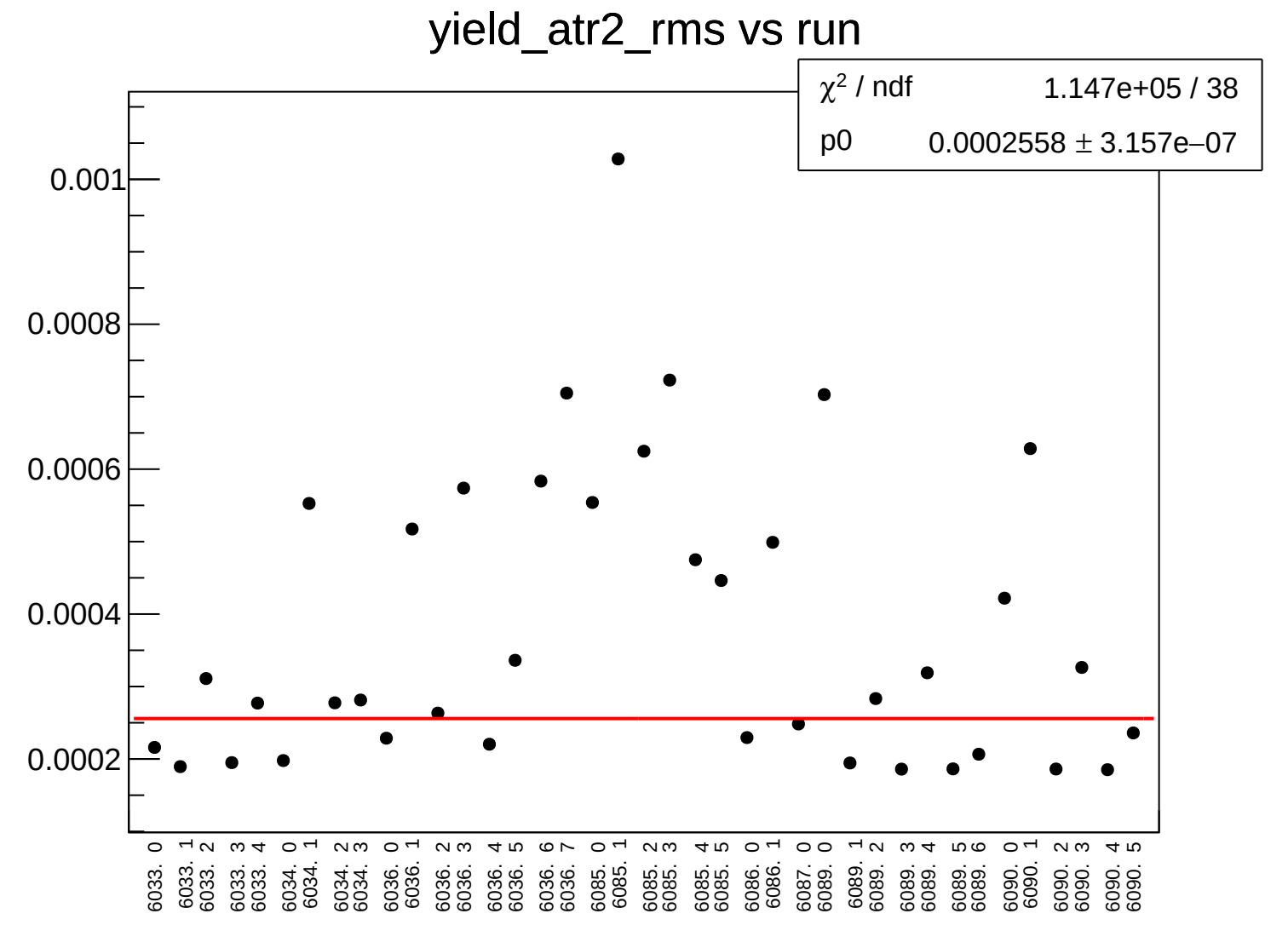

pull1D
Entries 39
Mean 7.79
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

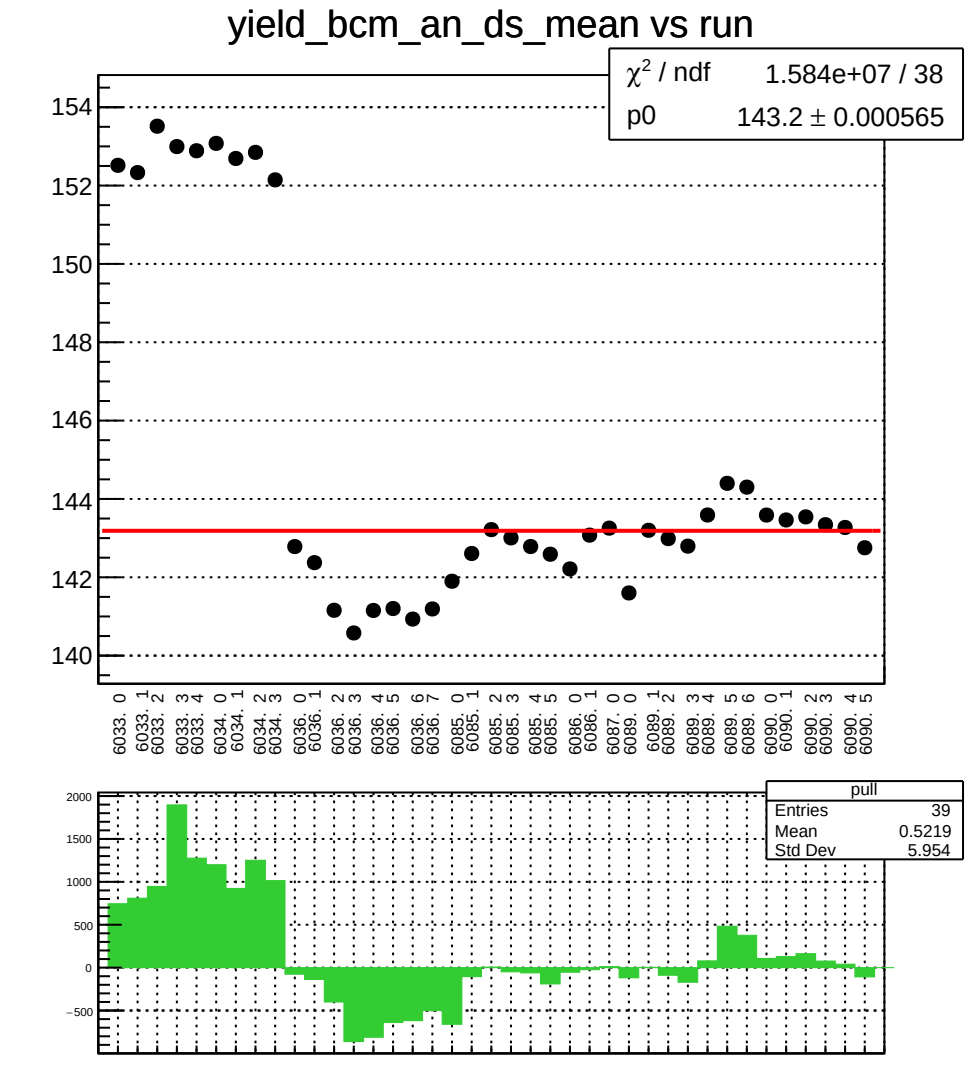

yield_atl2_rms vs run
χ² / ndf 9.886e+04 / 38
p0 0.000313 ± 3.817e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

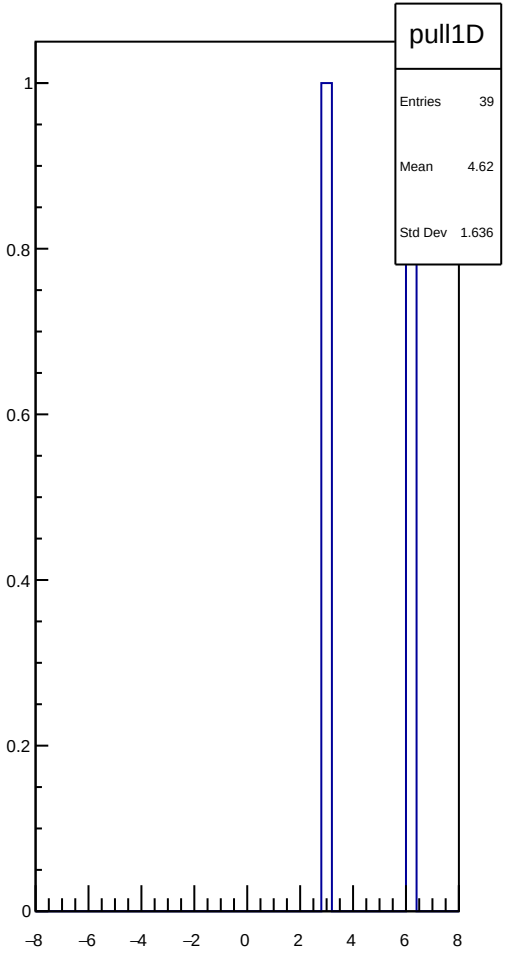

yield_atr1_mean vs run
χ² / ndf 2.496e+05 / 38
p0 0.03834 ± 2.008e−07
0.0386
0.0385
0.0384
0.0383
0.0382
0.0381
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1057
Std Dev 1082
150
100
50
0
−50
−100
−150
pull1D
Entries 39
Mean −3.085
Std Dev 3.501
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

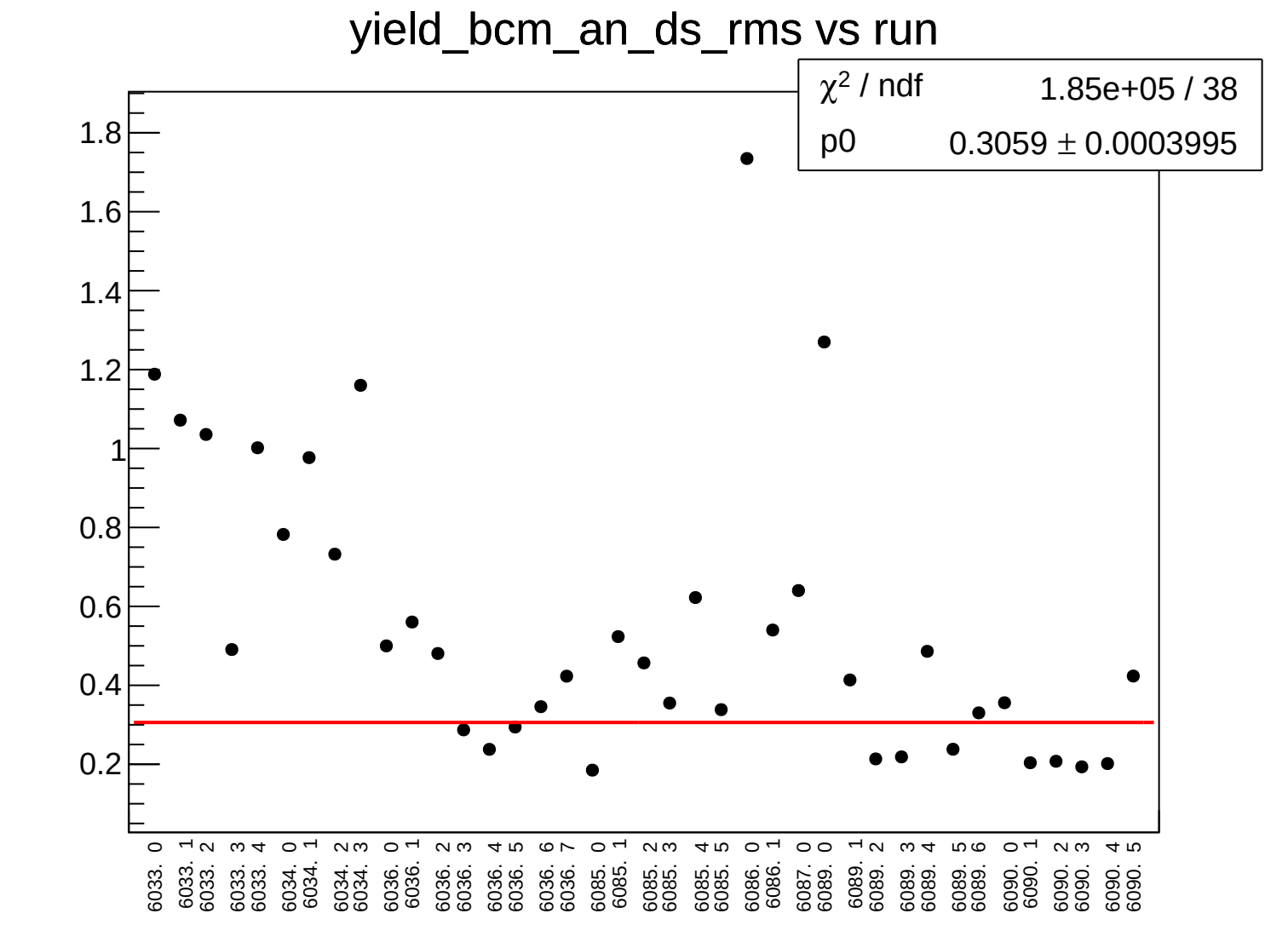

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.053e+04 / 38
p0 0.0001238 ± 1.42e−07
0.2
0.18
0.16
0.14
0.12
0.1
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

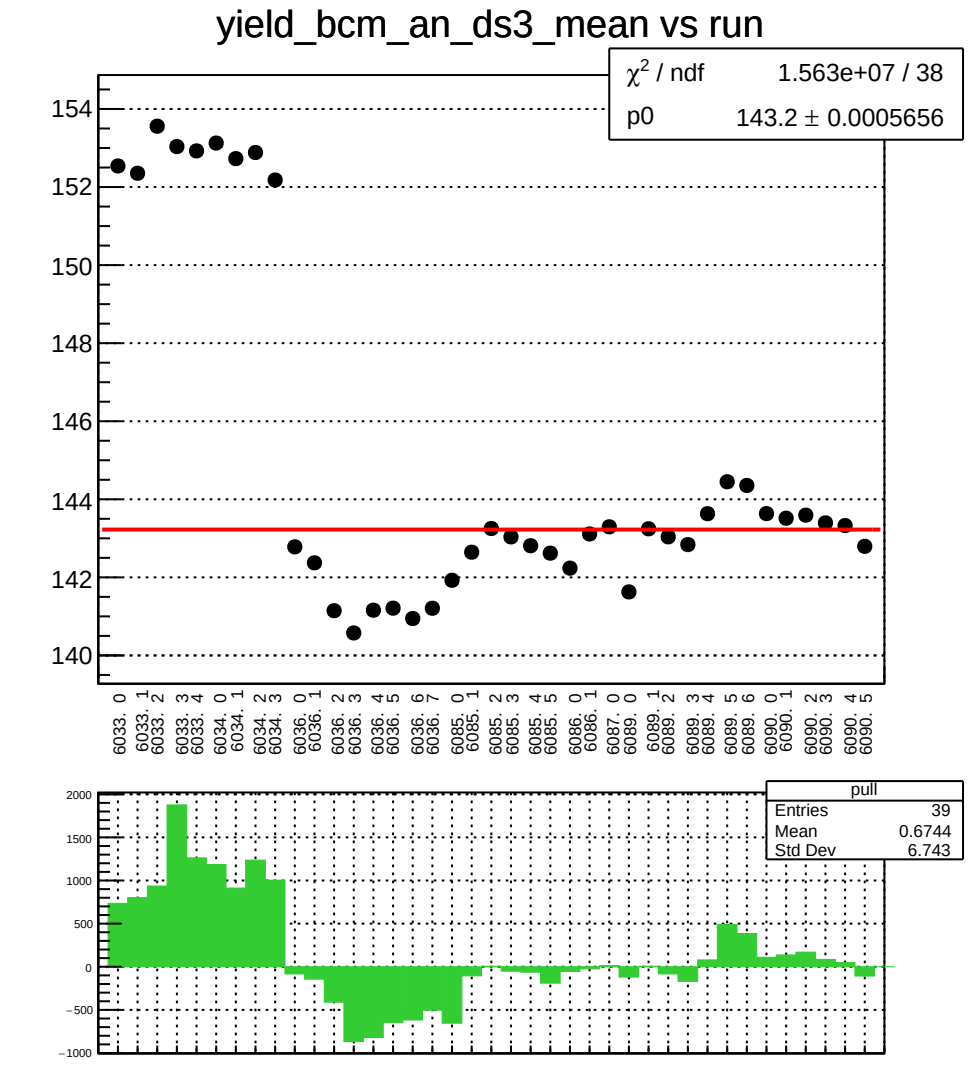

yield_atr2_mean vs run
χ² / ndf 9.268e+05 / 38
p0 0.02592 ± 4.464e−07
0.0268
0.0266
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 434.7
Std Dev 415.5
200
100
0
−100
−200
pull1D
Entries 39
Mean 5.552
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

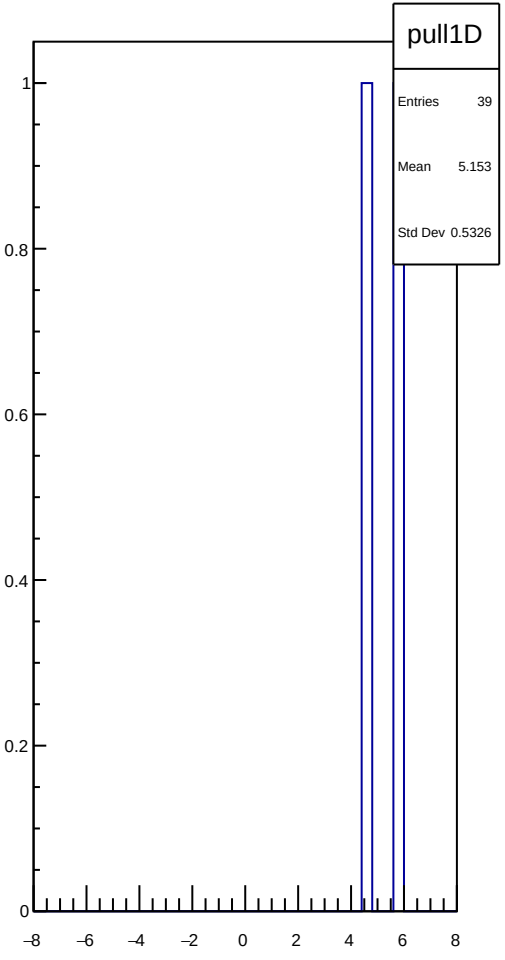

yield_atr2_rms vs run
χ² / ndf 1.147e+05 / 38
p0 0.0002558 ± 3.157e−07
0.001
0.0008
0.0006
0.0004
0.0002
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

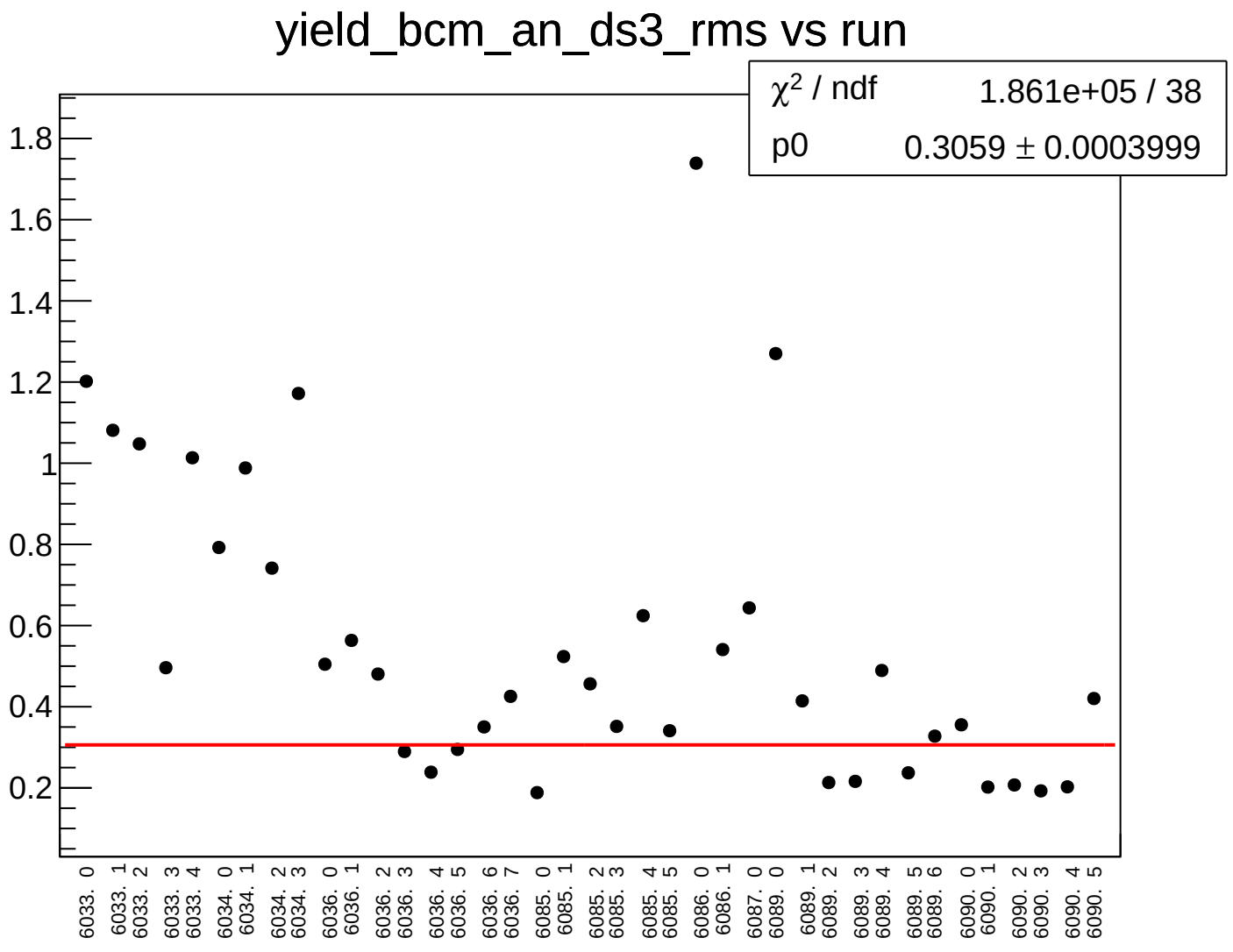

yield_bcm_an_ds_mean vs run
χ² / ndf 1.584e+07 / 38
p0 143.2 ± 0.000565
pull
Entries 39
Mean 0.5219
Std Dev 5.954

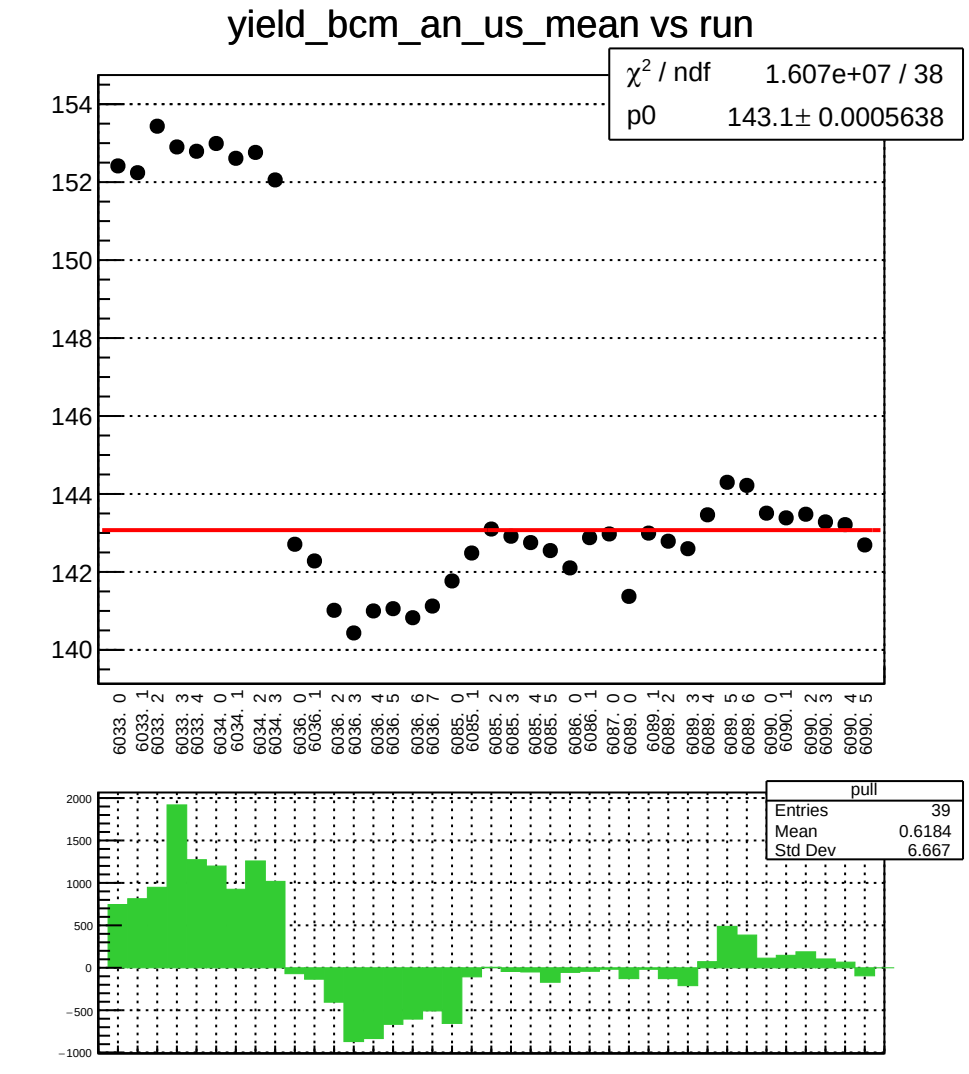

pull1D
Entries 39
Mean 4.62
Std Dev 1.636

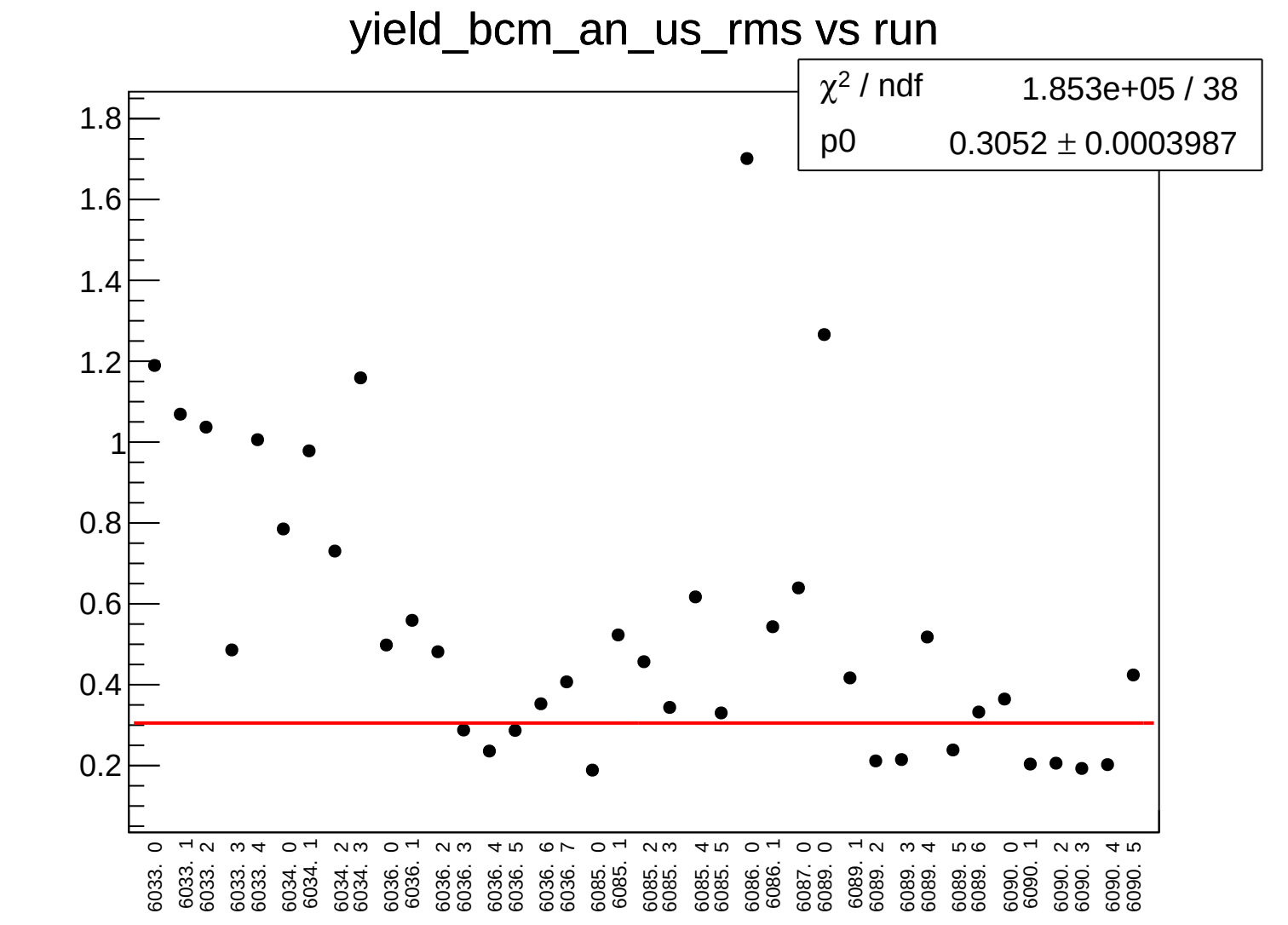

yield_bcm_an_ds_rms vs run
χ² / ndf 1.85e+05 / 38
p0 0.3059 ± 0.0003995
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

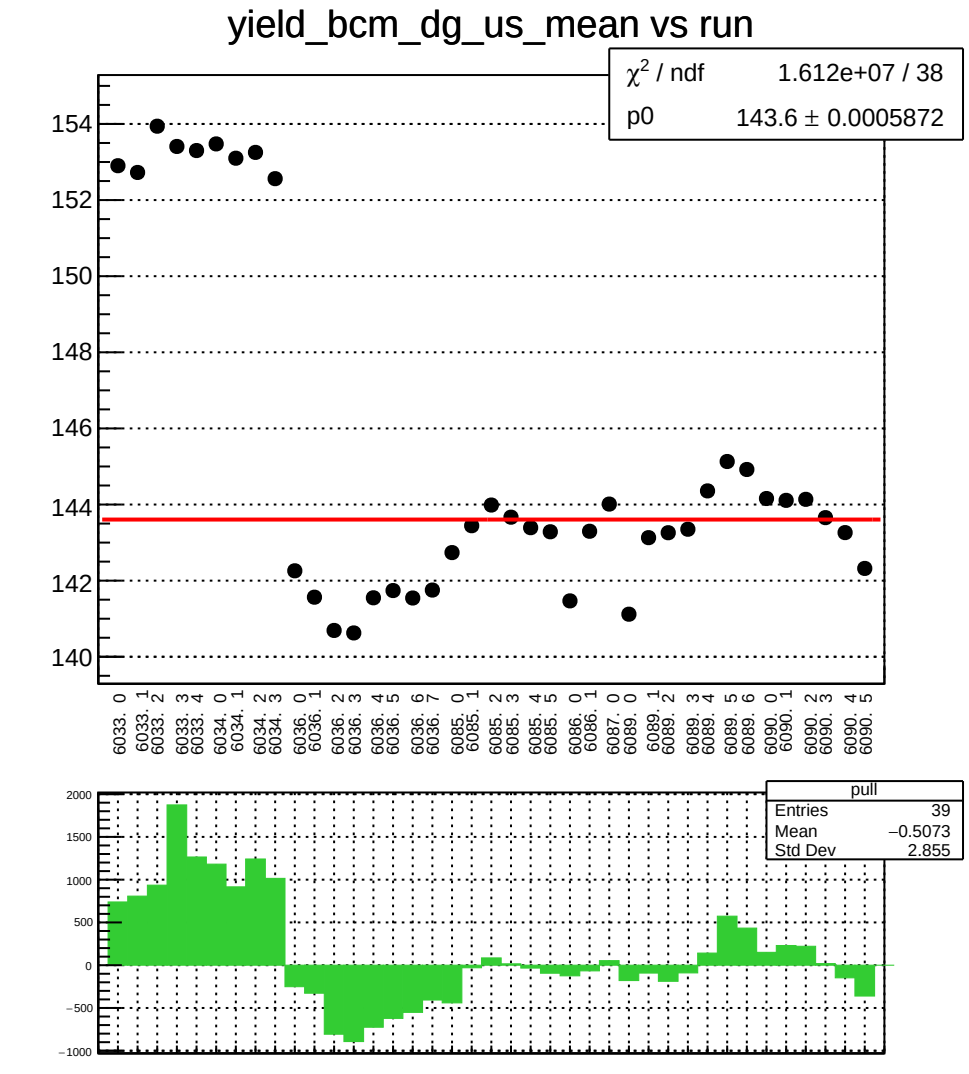

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.563e+07 / 38
p0 143.2 ± 0.0005656
154
152
150
148
146
144
142
140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 0.6744
Std Dev 6.743
2000
1500
1000
500
0
−500
−1000

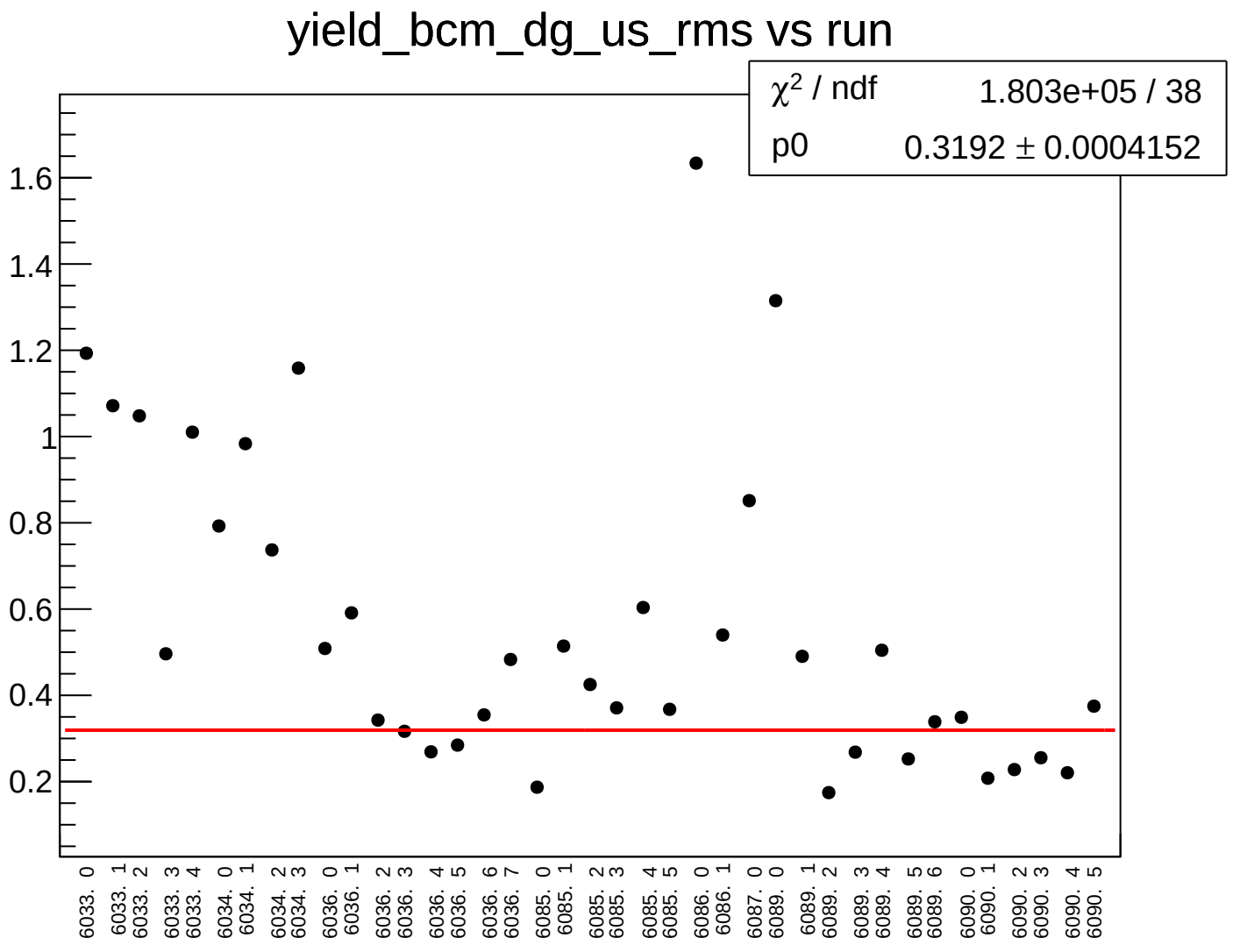

pull1D
Entries 39
Mean 5.153
Std Dev 0.5326
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

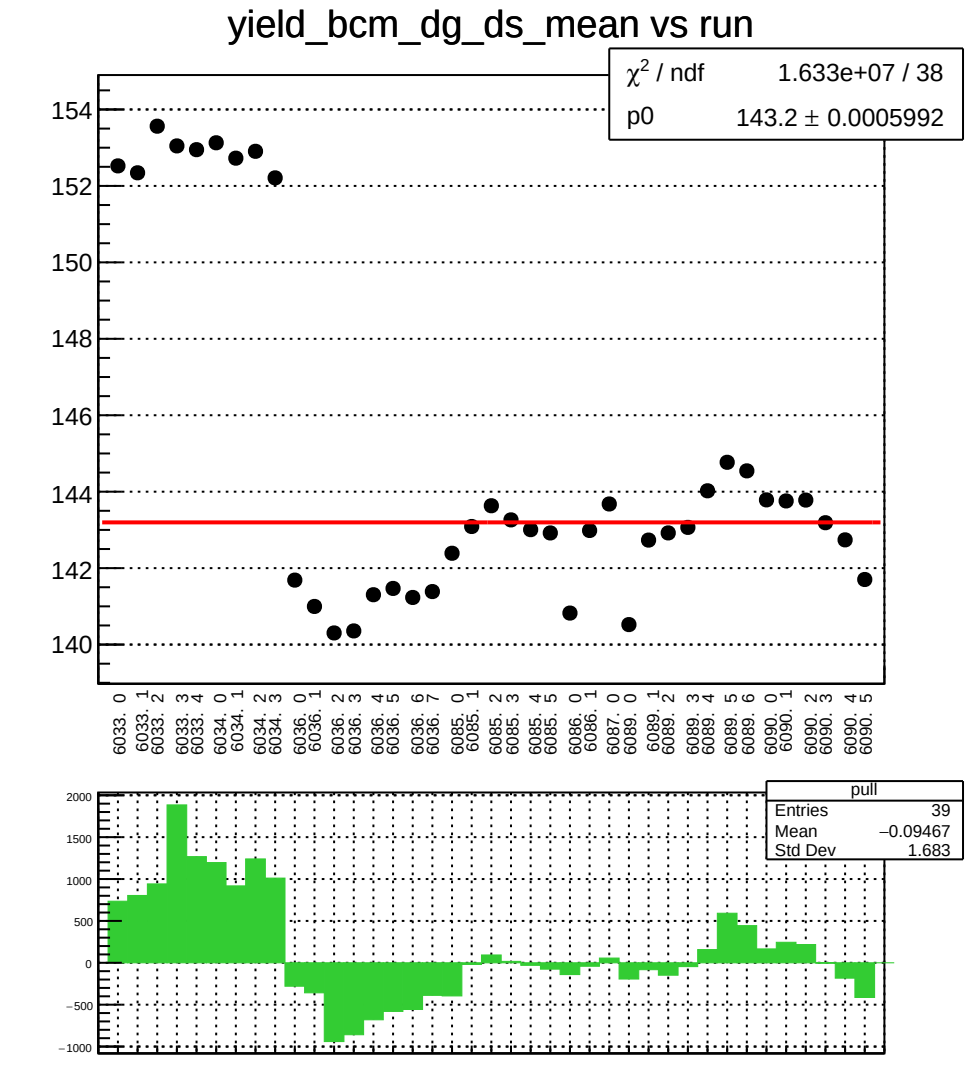

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.861e+05 / 38
p0 0.3059 ± 0.0003999
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

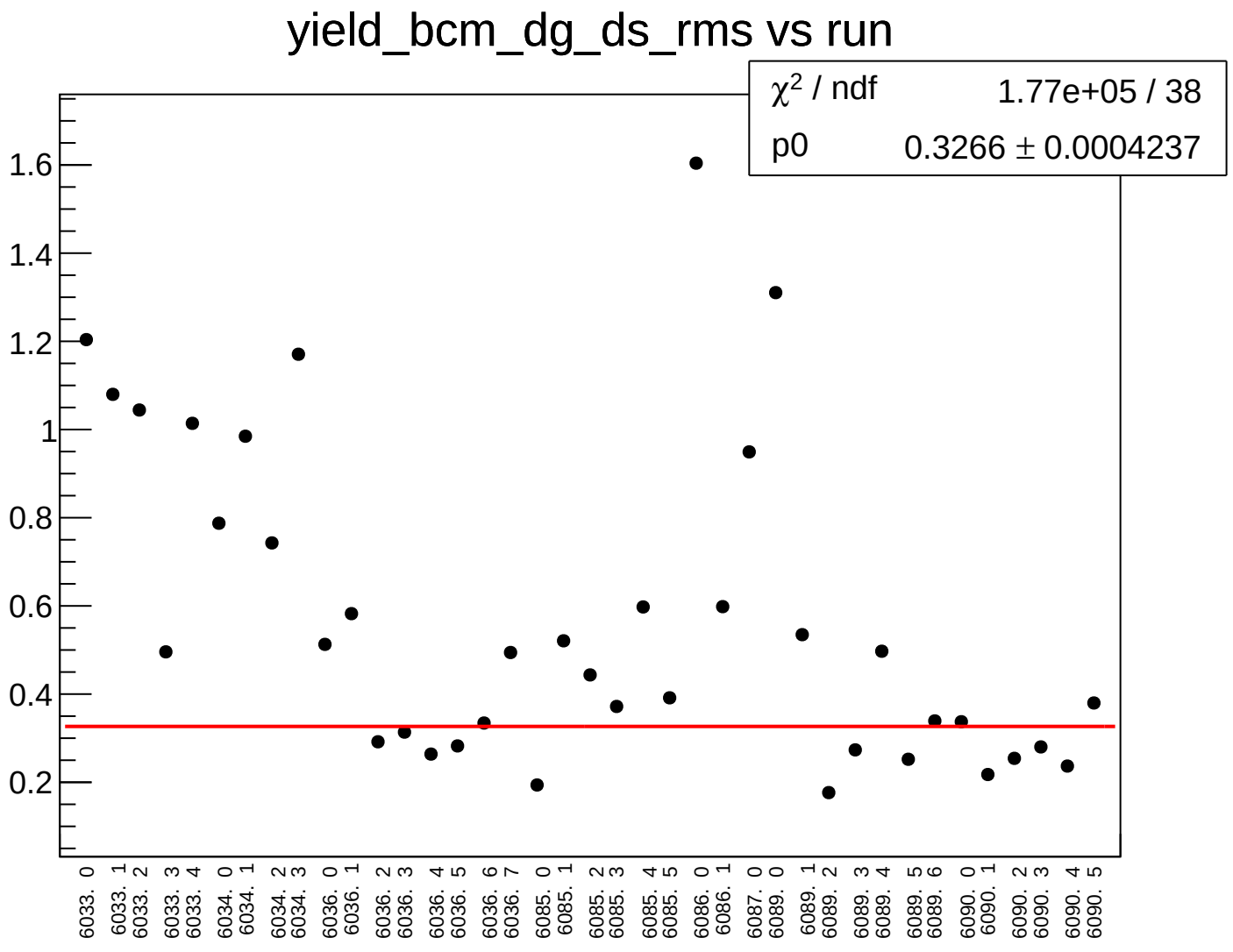

yield_bcm_an_us_mean vs run
χ² / ndf 1.607e+07 / 38
p0 143.1± 0.0005638
154
152
150
148
146
144
142
140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 0.6184
Std Dev 6.667
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 39
Mean 5.805
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

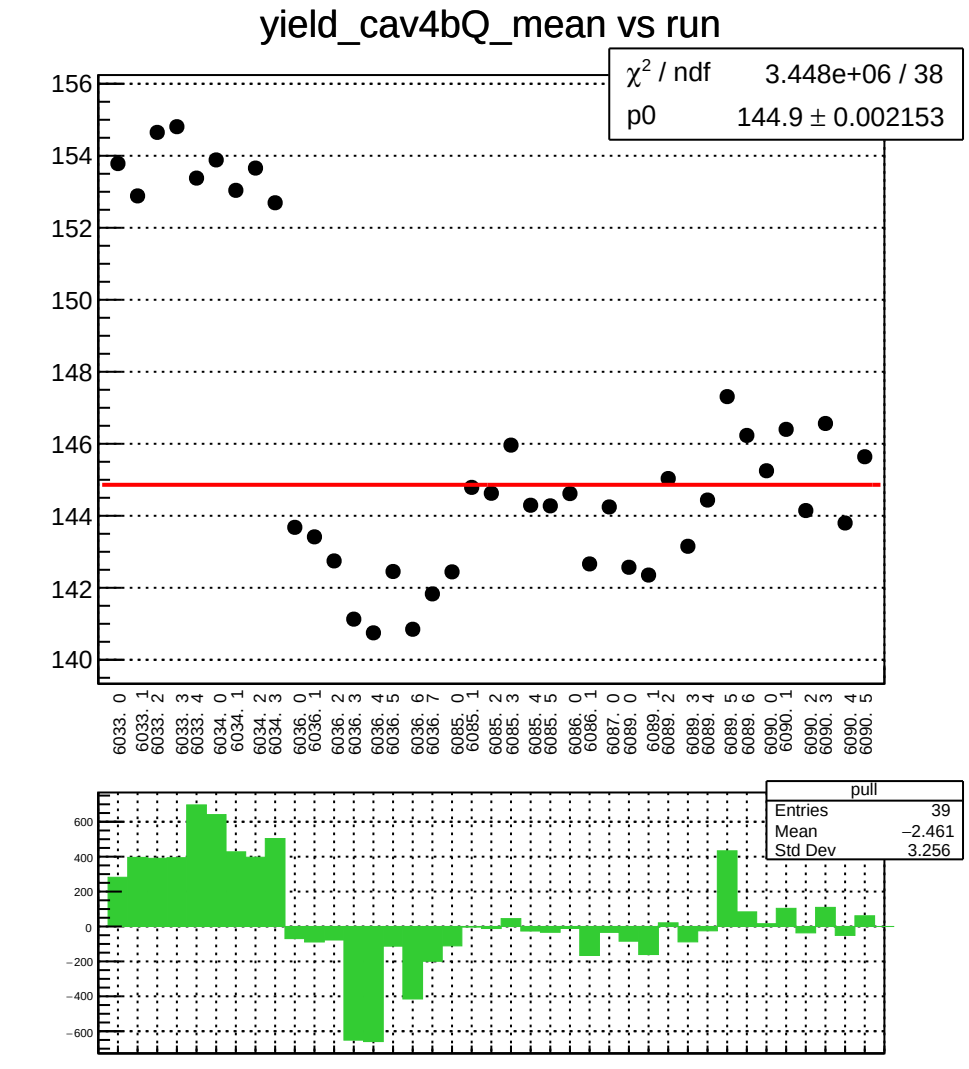

yield_bcm_an_us_rms vs run
χ² / ndf 1.853e+05 / 38
p0 0.3052 ± 0.0003987
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

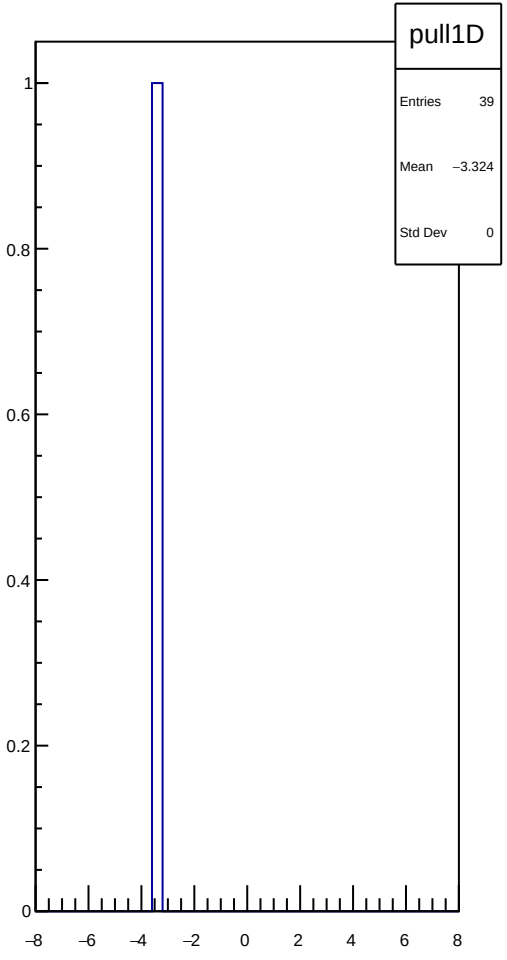

yield_bcm_dg_us_mean vs run
χ² / ndf 1.612e+07 / 38
p0 143.6 ± 0.0005872
154
152
150
148
146
144
142
140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −0.5073
Std Dev 2.855
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

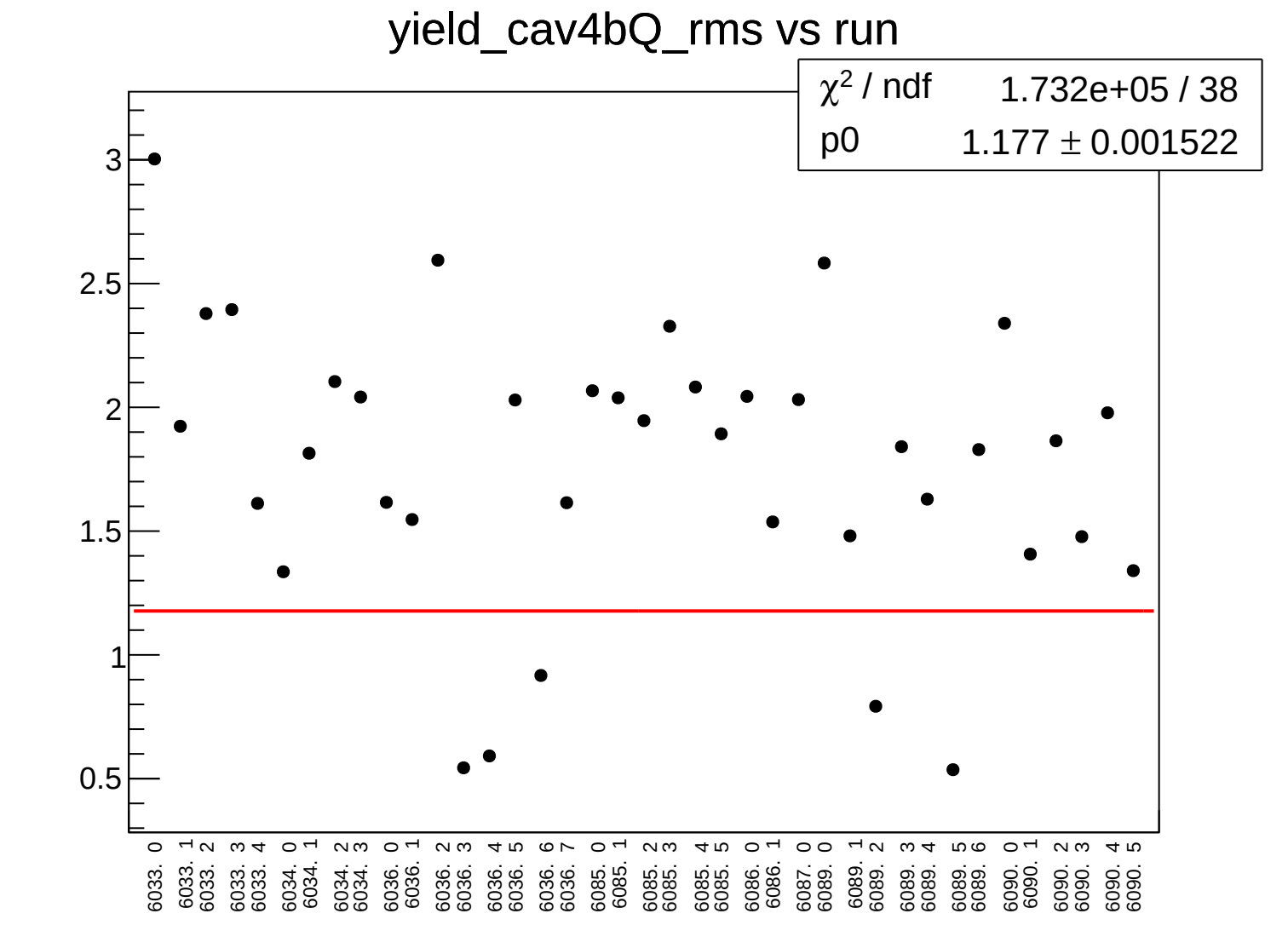

yield_bcm_dg_us_rms vs run
χ² / ndf 1.803e+05 / 38
p0 0.3192 ± 0.0004152
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

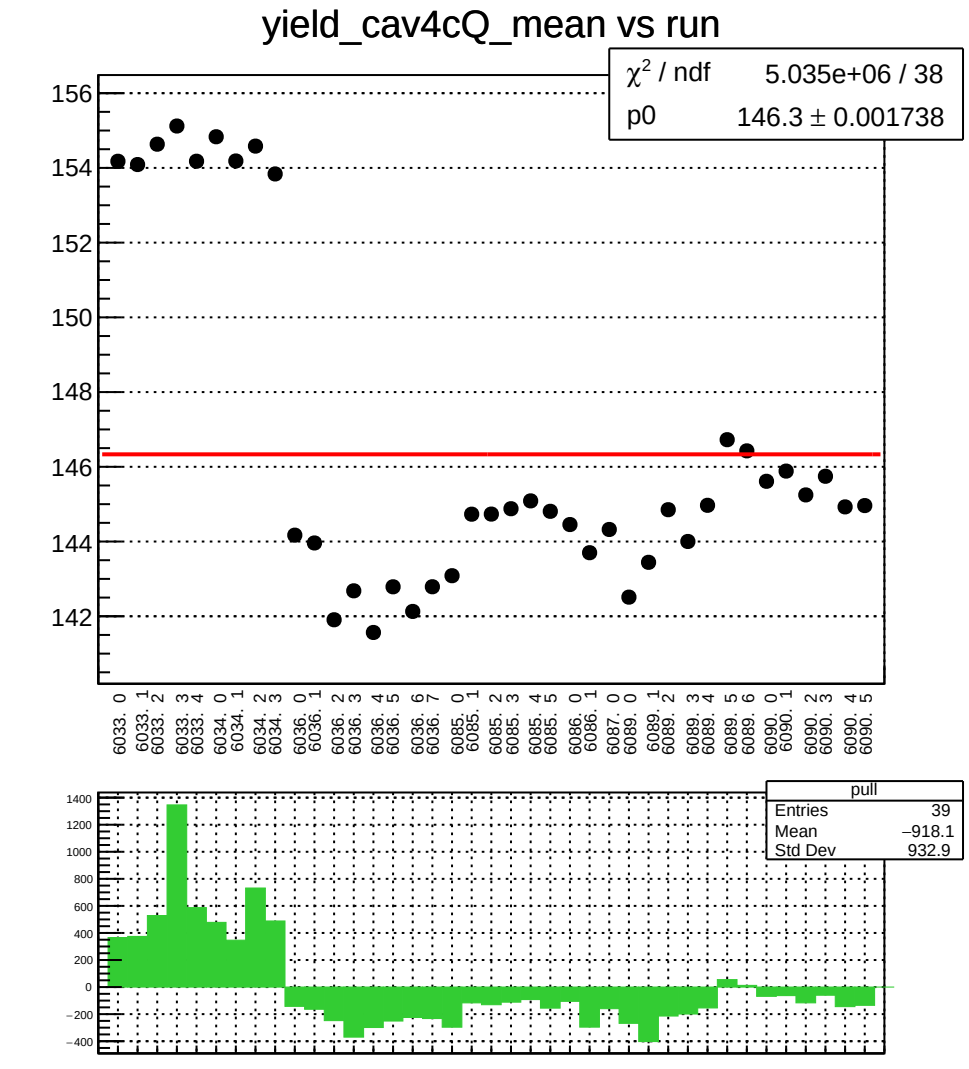

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.633e+07 / 38
p0 143.2 ± 0.0005992
154
152
150
148
146
144
142
140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −0.09467
Std Dev 1.683
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 39
Mean −2.844
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

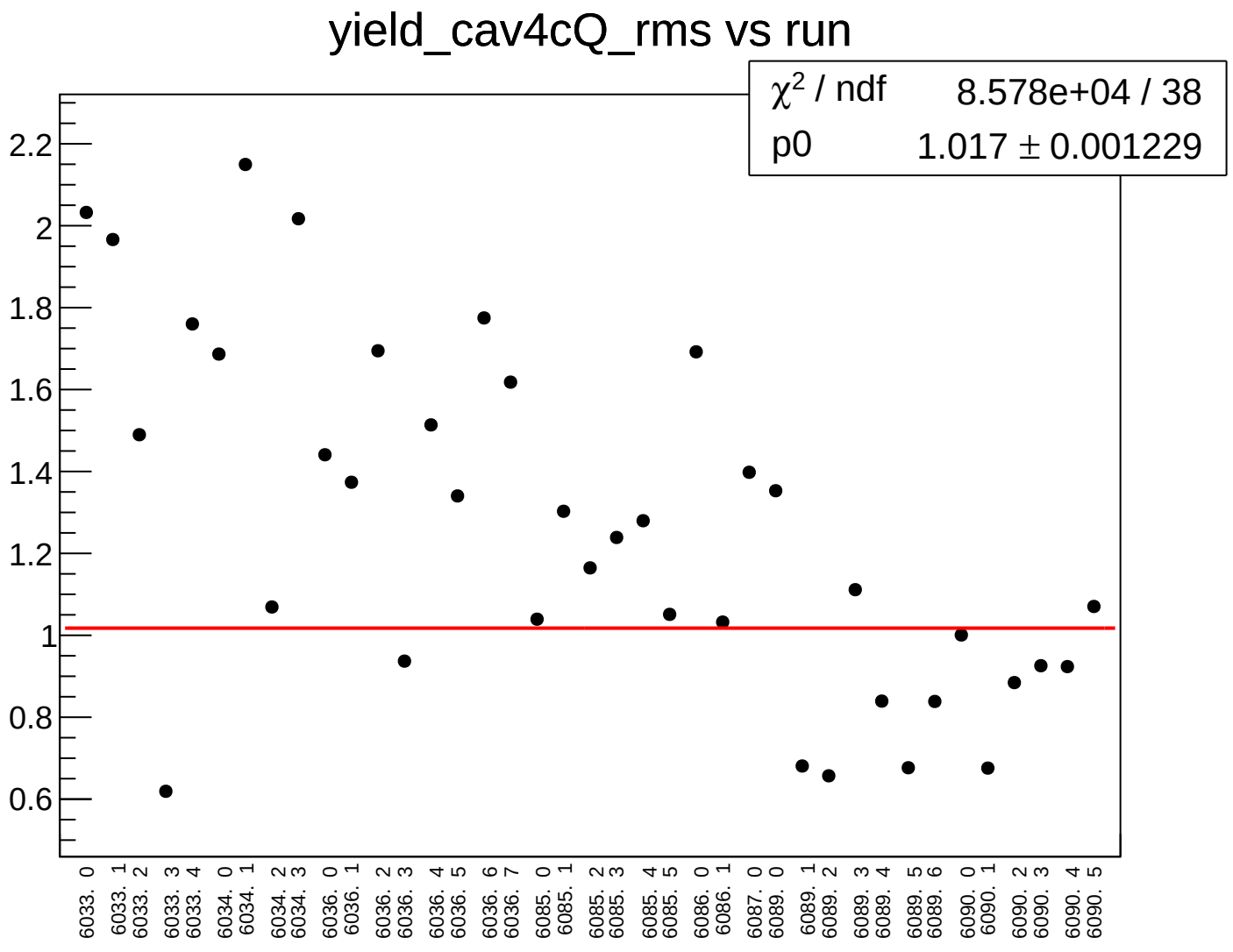

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.77e+05 / 38
p0 0.3266 ± 0.0004237
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

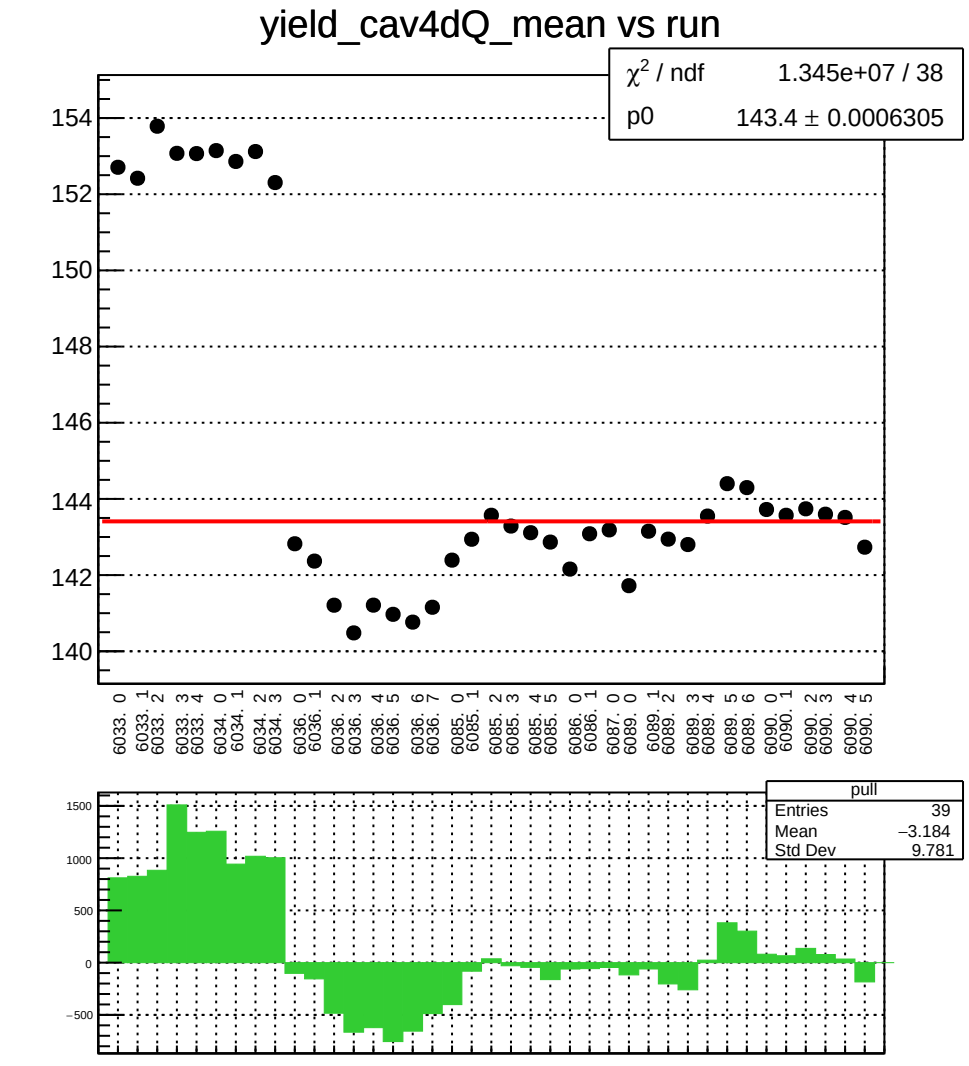

yield_cav4bQ_mean vs run
χ² / ndf 3.448e+06 / 38
p0 144.9 ± 0.002153
156
154
152
150
148
146
144
142
140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −2.461
Std Dev 3.256
600
400
200
0
−200
−400
−600

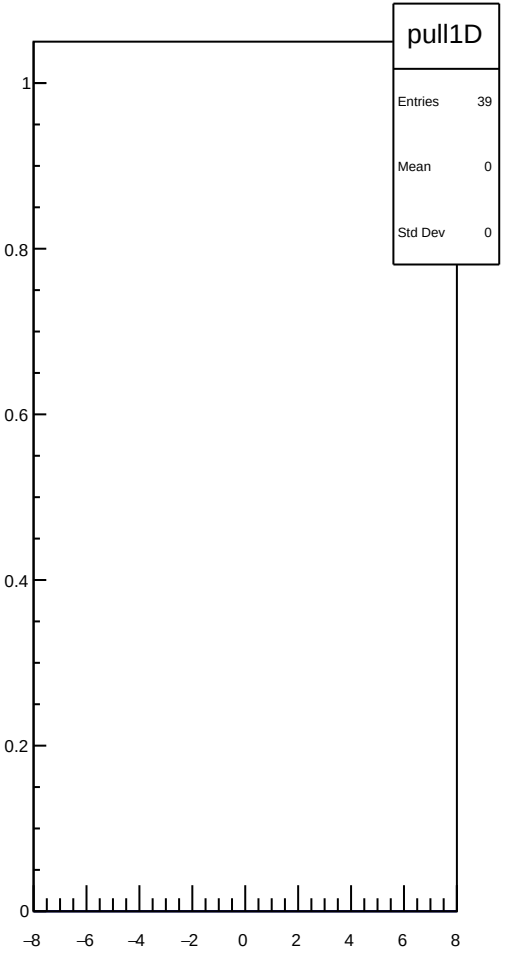

pull1D
Entries 39
Mean −3.324
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

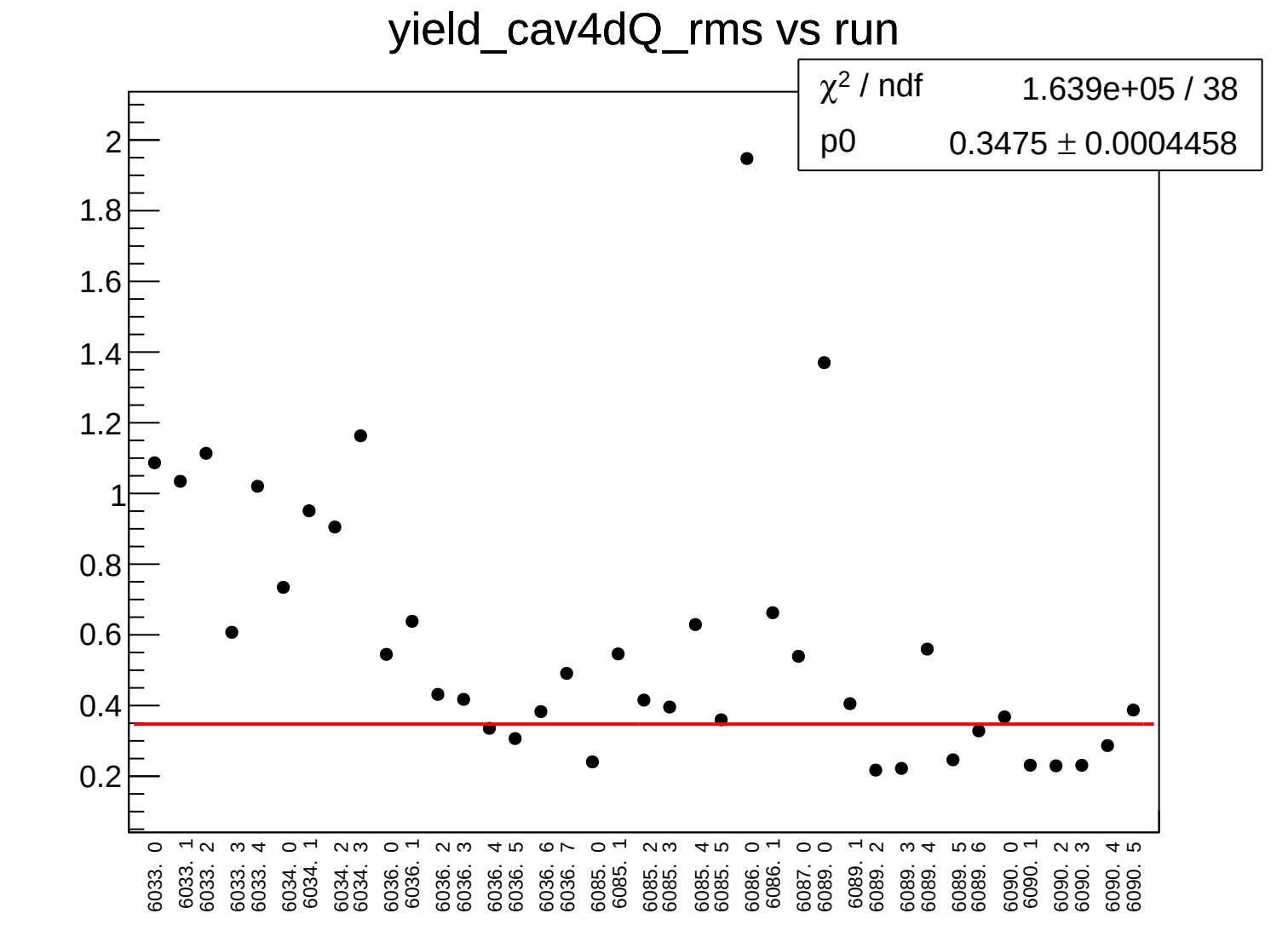

yield_cav4bQ_rms vs run
χ² / ndf 1.732e+05 / 38
p0 1.177 ± 0.001522
3
2.5
2
1.5
1
0.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

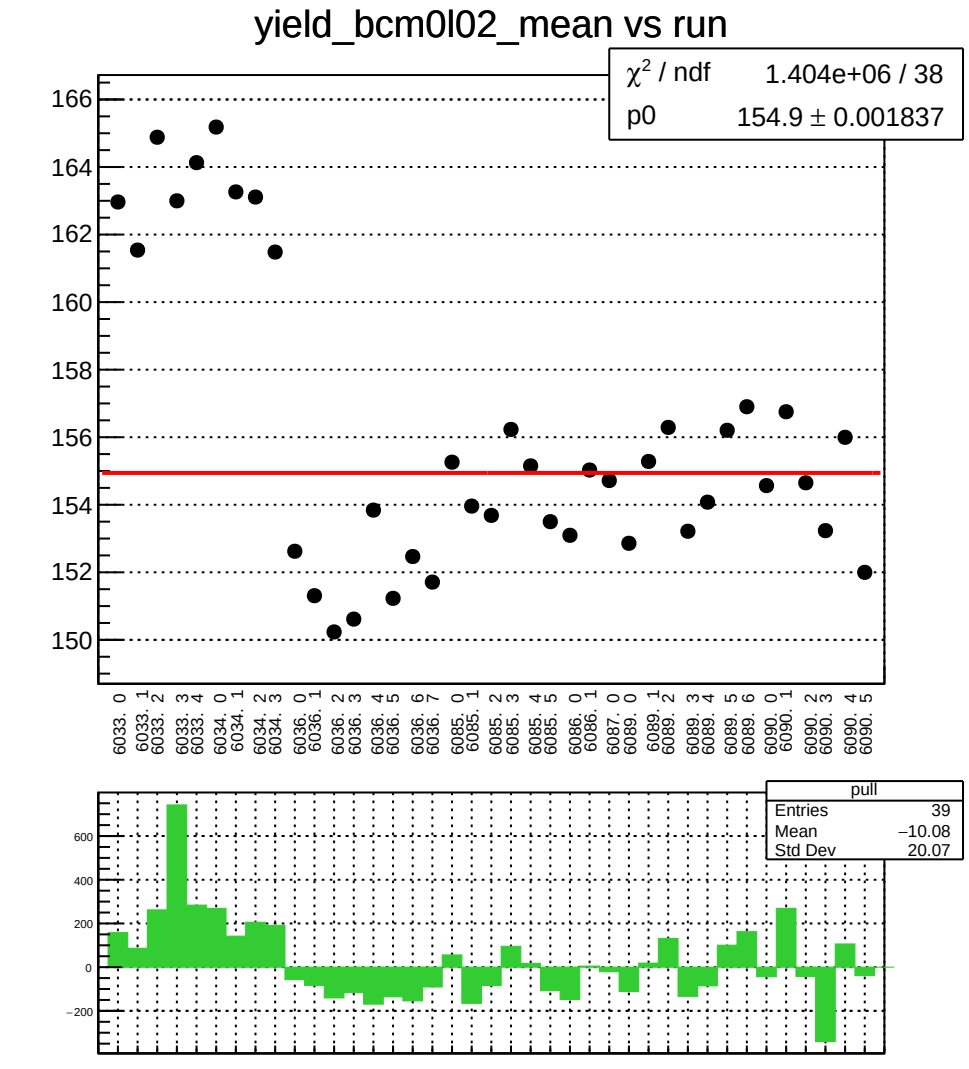

yield_cav4cQ_mean vs run
χ² / ndf 5.035e+06 / 38
p0 146.3 ± 0.001738
156
154
152
150
148
146
144
142
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −918.1
Std Dev 932.9
1400
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

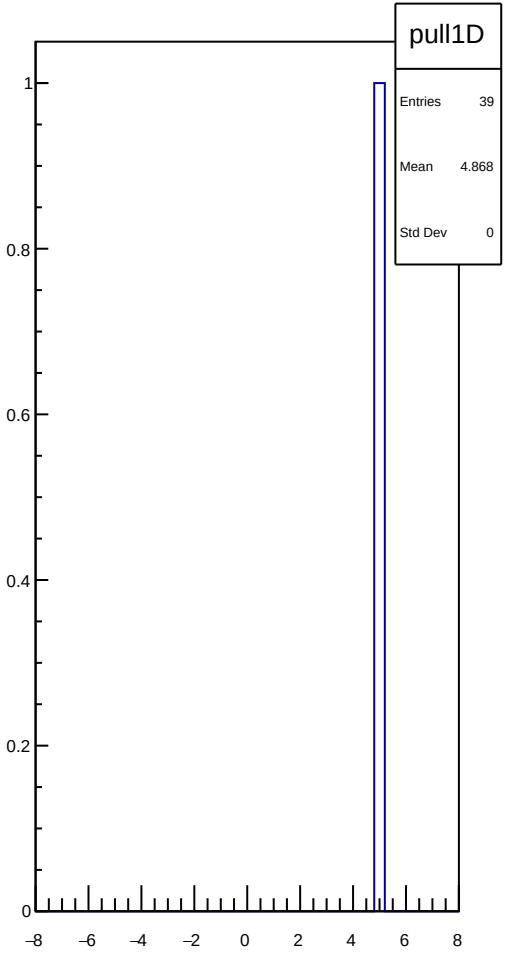

yield_cav4cQ_rms vs run
χ² / ndf 8.578e+04 / 38
p0 1.017 ± 0.001229
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

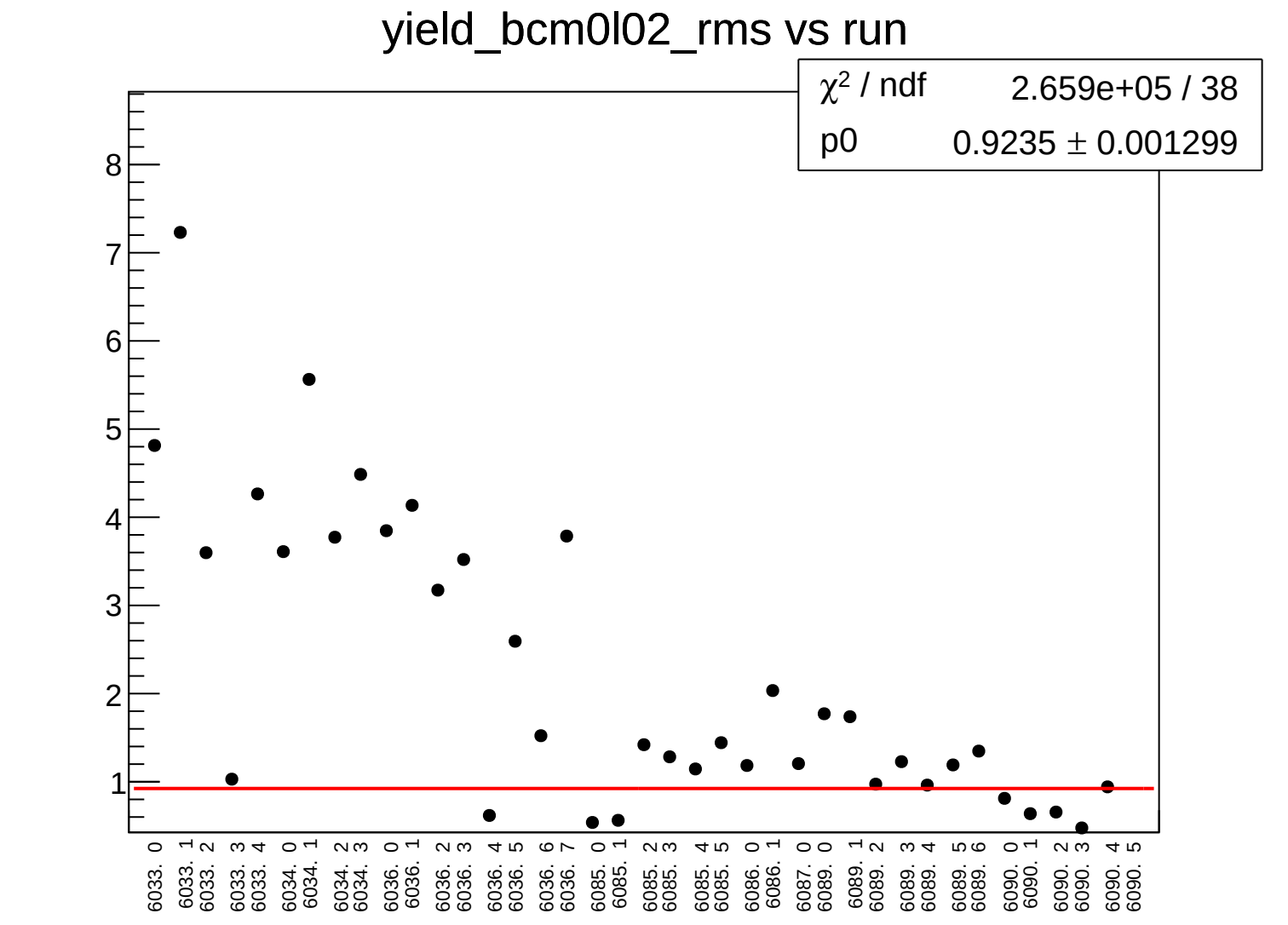

yield_cav4dQ_mean vs run
χ² / ndf 1.345e+07 / 38
p0 143.4 ± 0.0006305
154
152
150
148
146
144
142
140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −3.184
Std Dev 9.781
1500
1000
500
0
−500

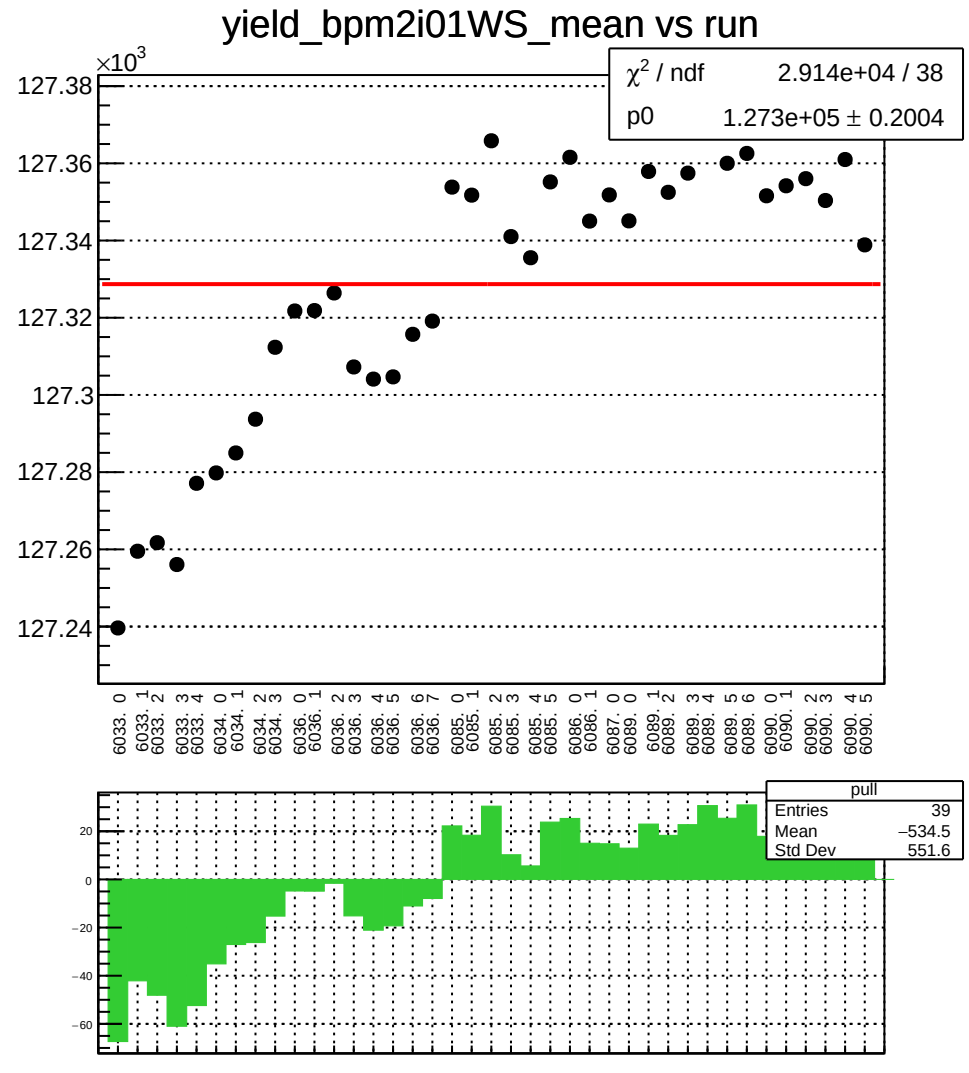

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

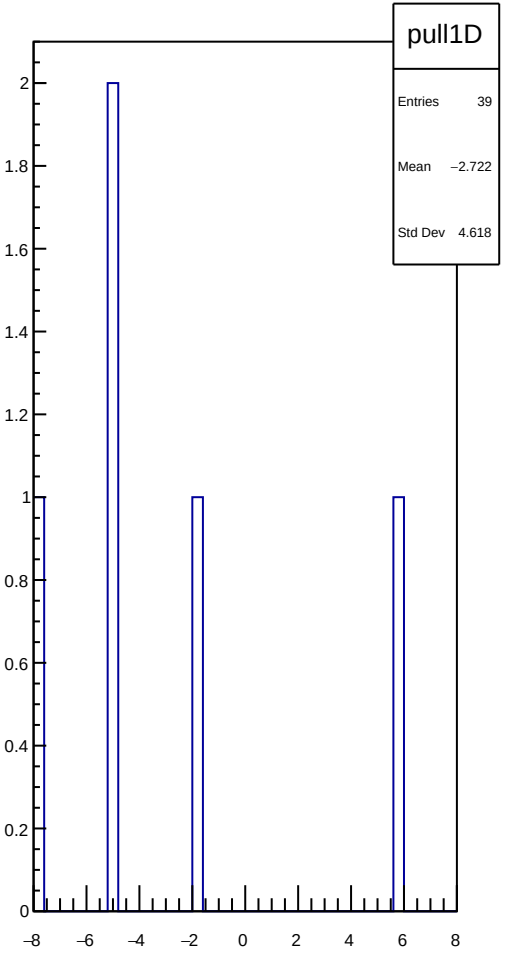

yield_cav4dQ_rms vs run
χ² / ndf 1.639e+05 / 38
p0 0.3475 ± 0.0004458
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

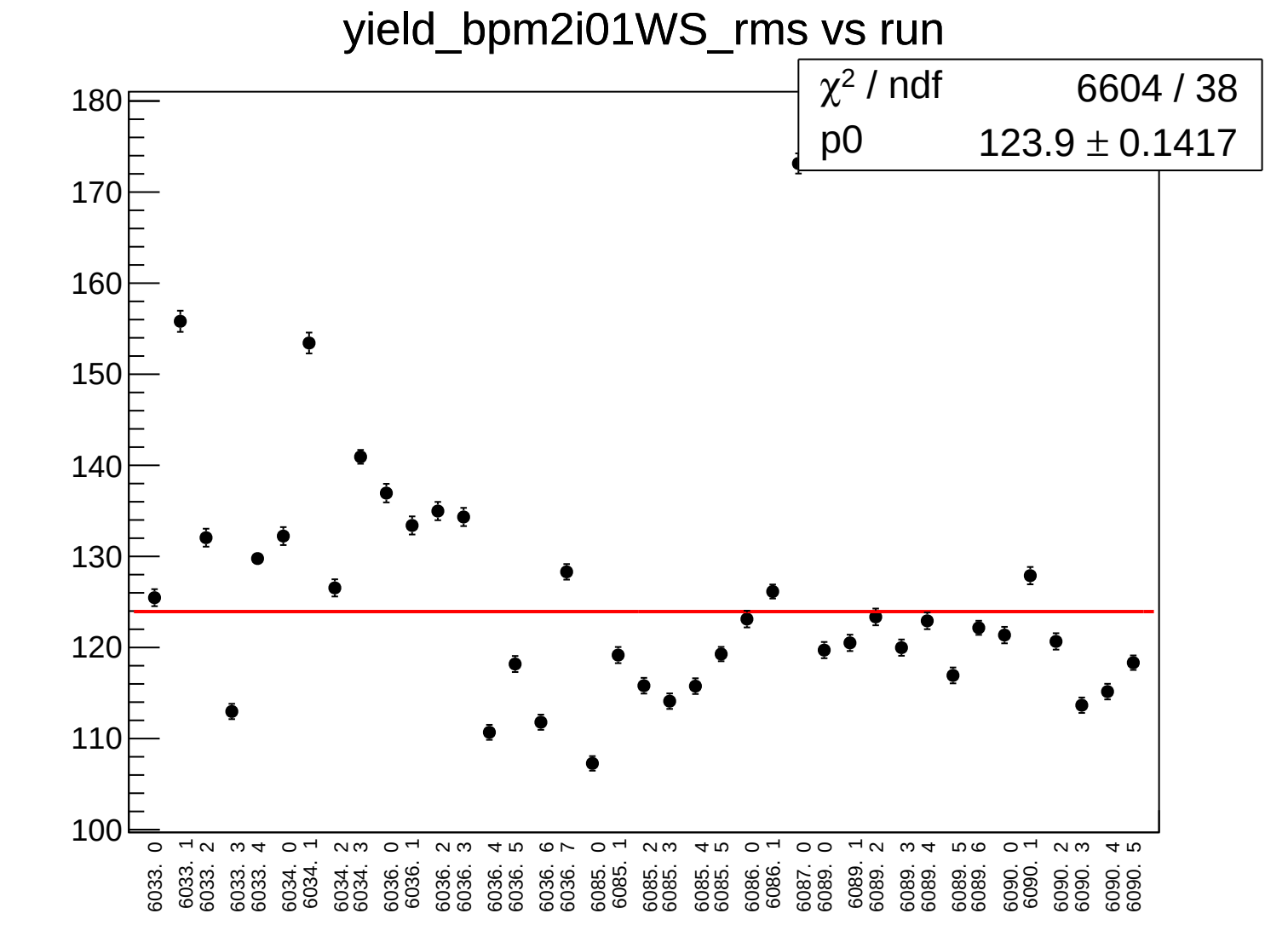

yield_bcm0l02_mean vs run
χ² / ndf 1.404e+06 / 38
p0 154.9 ± 0.001837
166
164
162
160
158
156
154
152
150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −10.08
Std Dev 20.07
600
400
200
0
−200

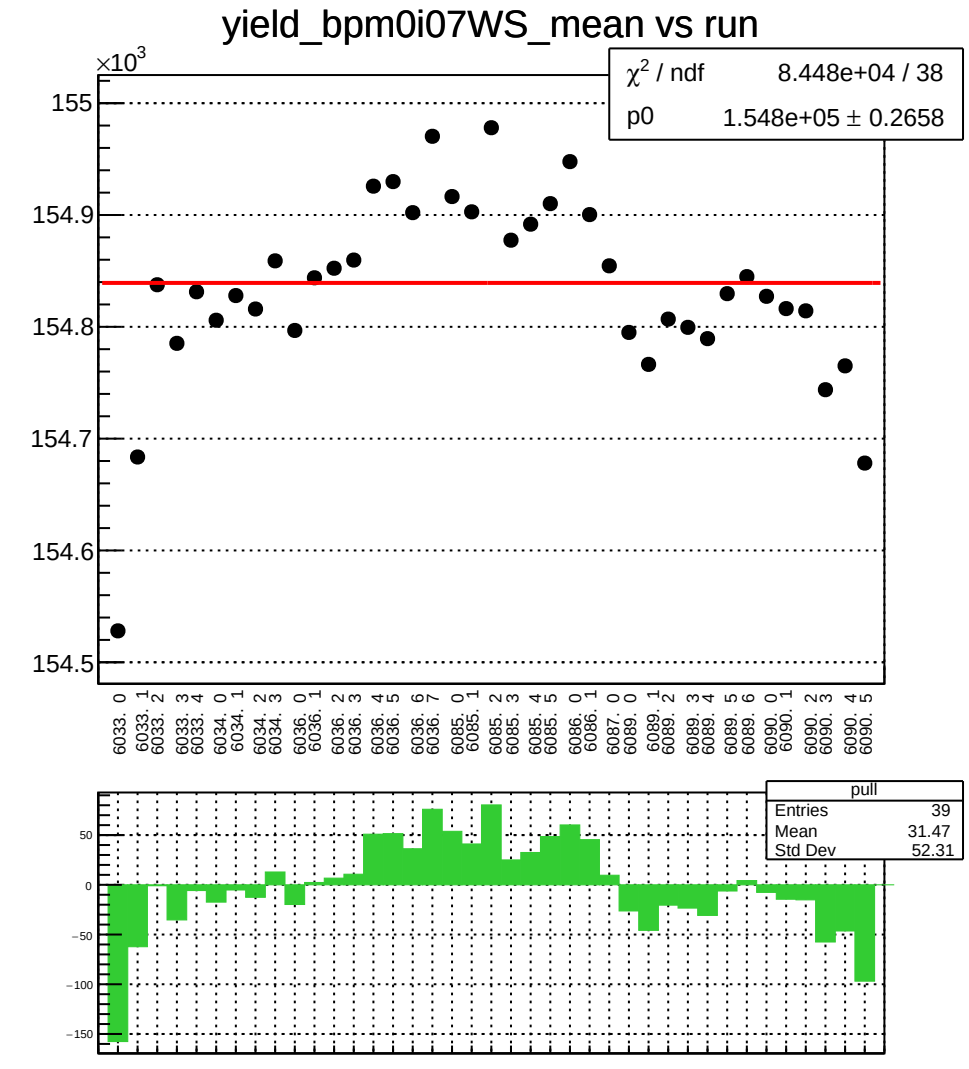

pull1D
Entries 39
Mean 4.868
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

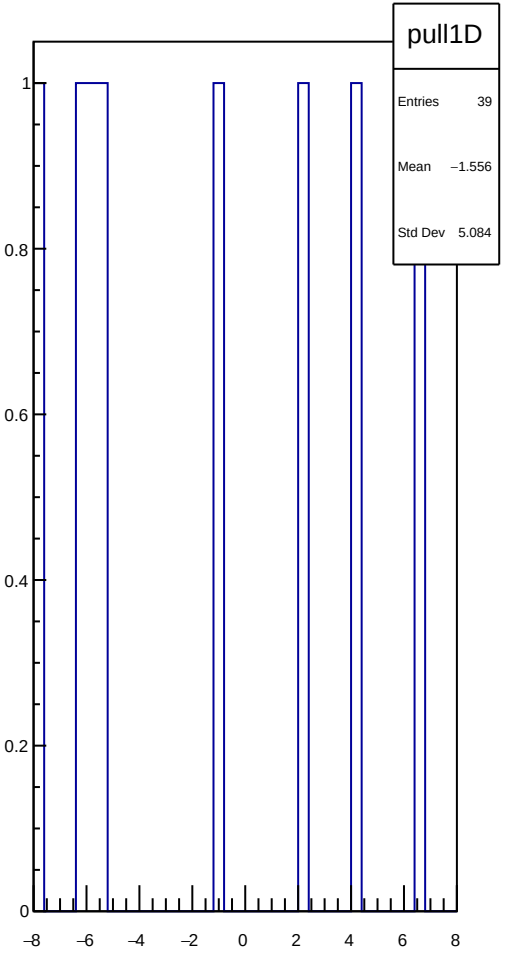

yield_bcm0l02_rms vs run
χ² / ndf 2.659e+05 / 38
p0 0.9235 ± 0.001299
8
7
6
5
4
3
2
1
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

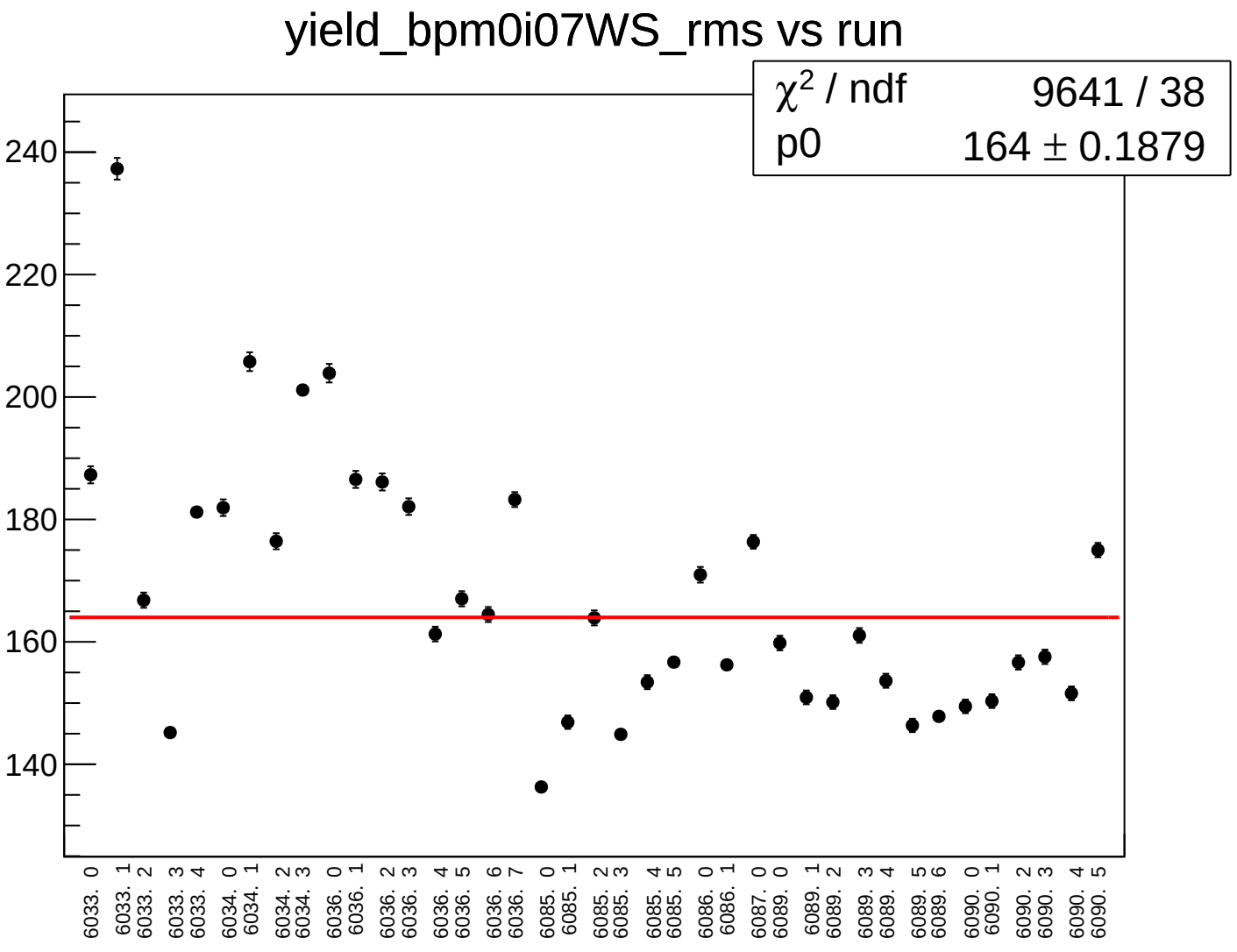

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 2.914e+04 / 38
p0 1.273e+05 ± 0.2004
127.38
127.36
127.34
127.32
127.3
127.28
127.26
127.24
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −534.5
Std Dev 551.6
20
0
−20
−40
−60

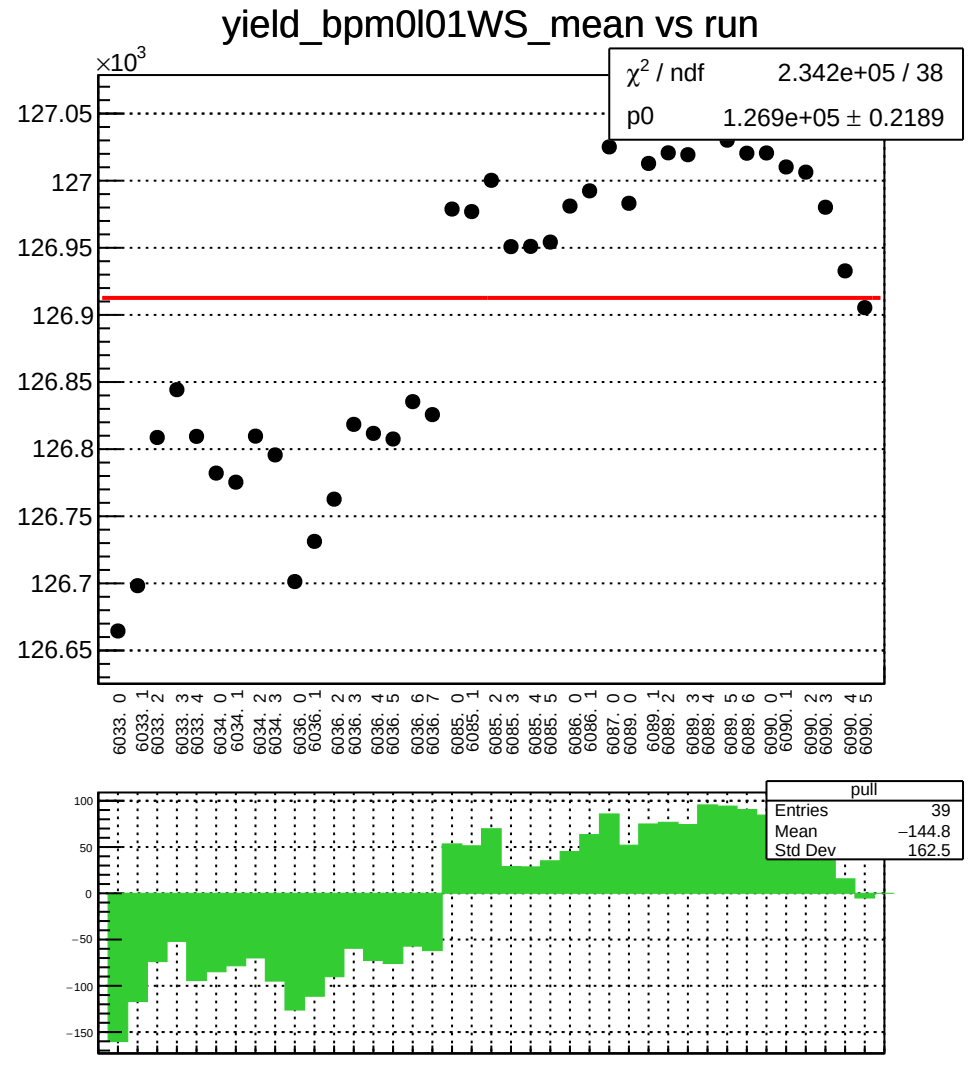

pull1D
Entries 39
Mean −2.722
Std Dev 4.618
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

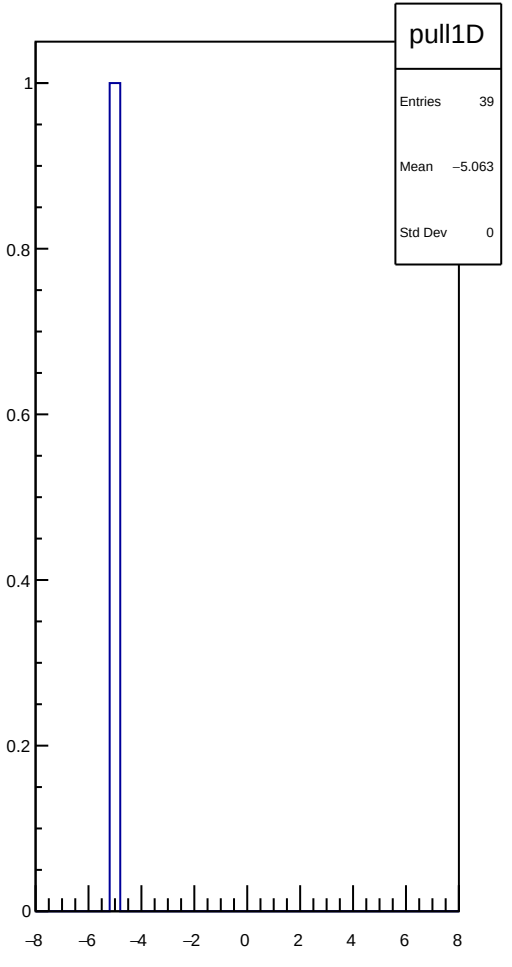

yield_bpm2i01WS_rms vs run
χ² / ndf 6604 / 38
p0 123.9 ± 0.1417
180
170
160
150
140
130
120
110
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

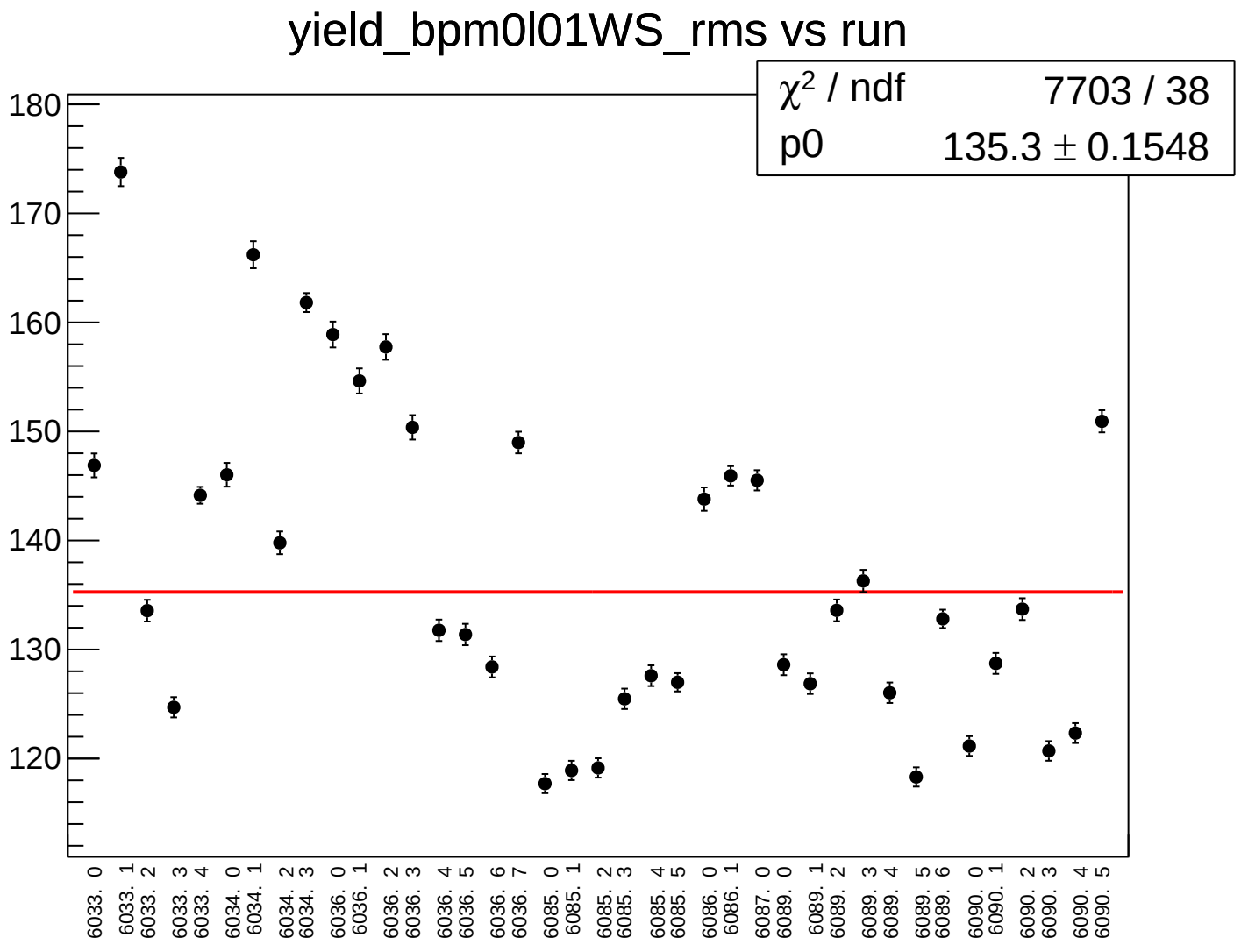

yield_bpm0i07WS_mean vs run
×10^3
155
154.9
154.8
154.7
154.6
154.5
χ² / ndf 8.448e+04 / 38
p0 1.548e+05 ± 0.2658
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 31.47
Std Dev 52.31
50
0
−50
−100
−150

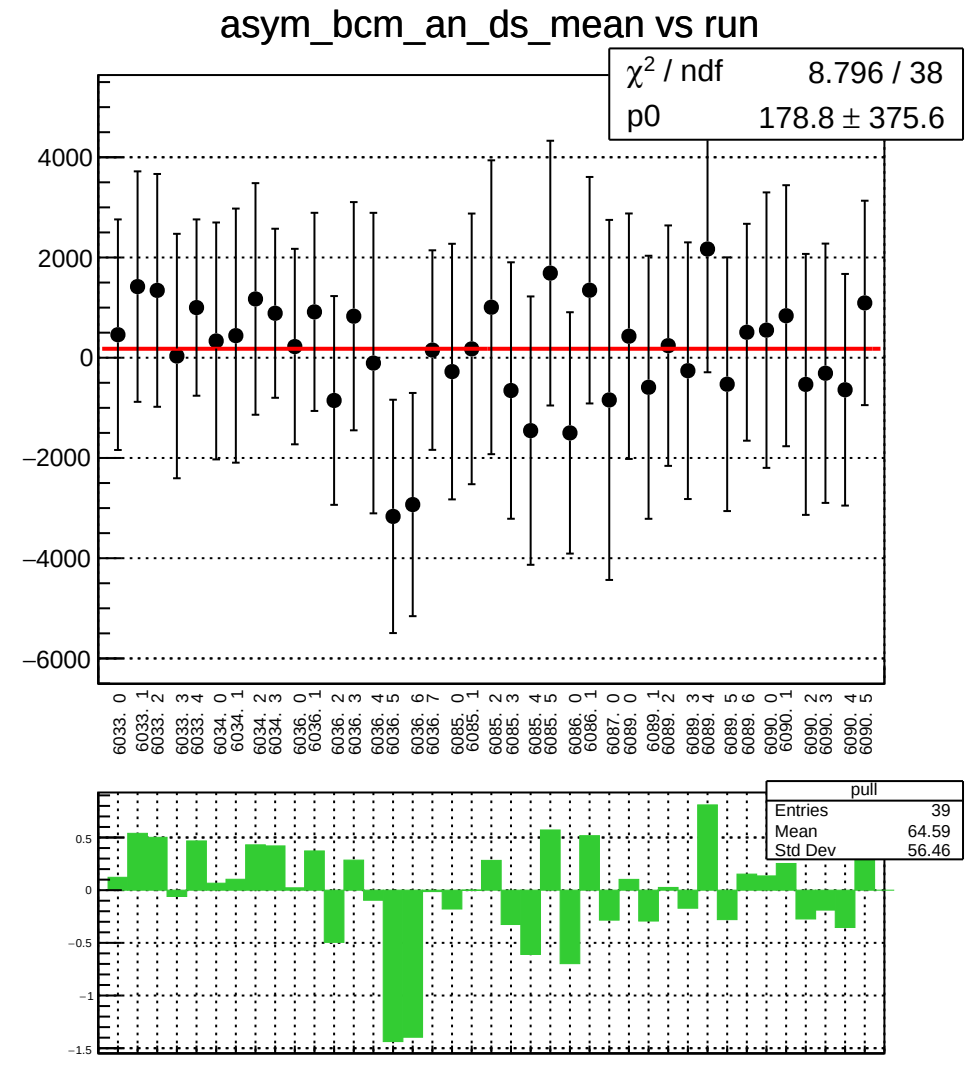

pull1D
Entries 39
Mean −1.556
Std Dev 5.084
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

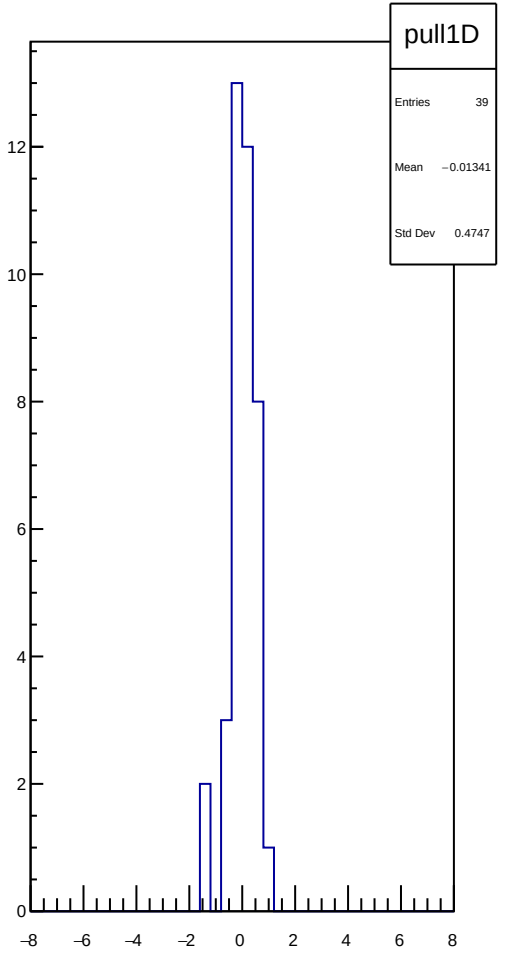

yield_bpm0i07WS_rms vs run
χ² / ndf 9641 / 38
p0 164 ± 0.1879
240
220
200
180
160
140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

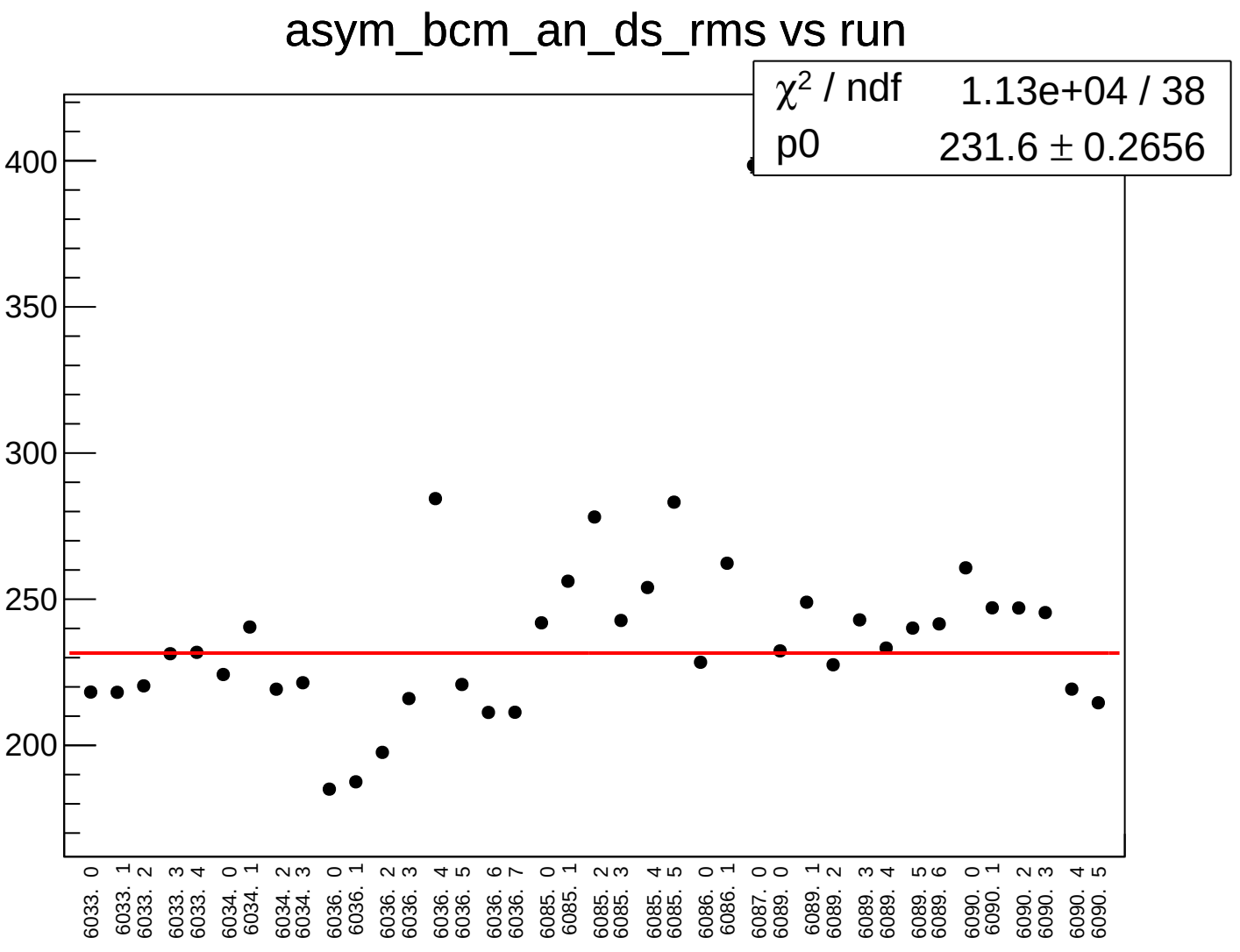

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.342e+05 / 38
p0 1.269e+05 ± 0.2189
127.05
127
126.95
126.9
126.85
126.8
126.75
126.7
126.65
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −144.8
Std Dev 162.5
100
50
0
−50
−100
−150

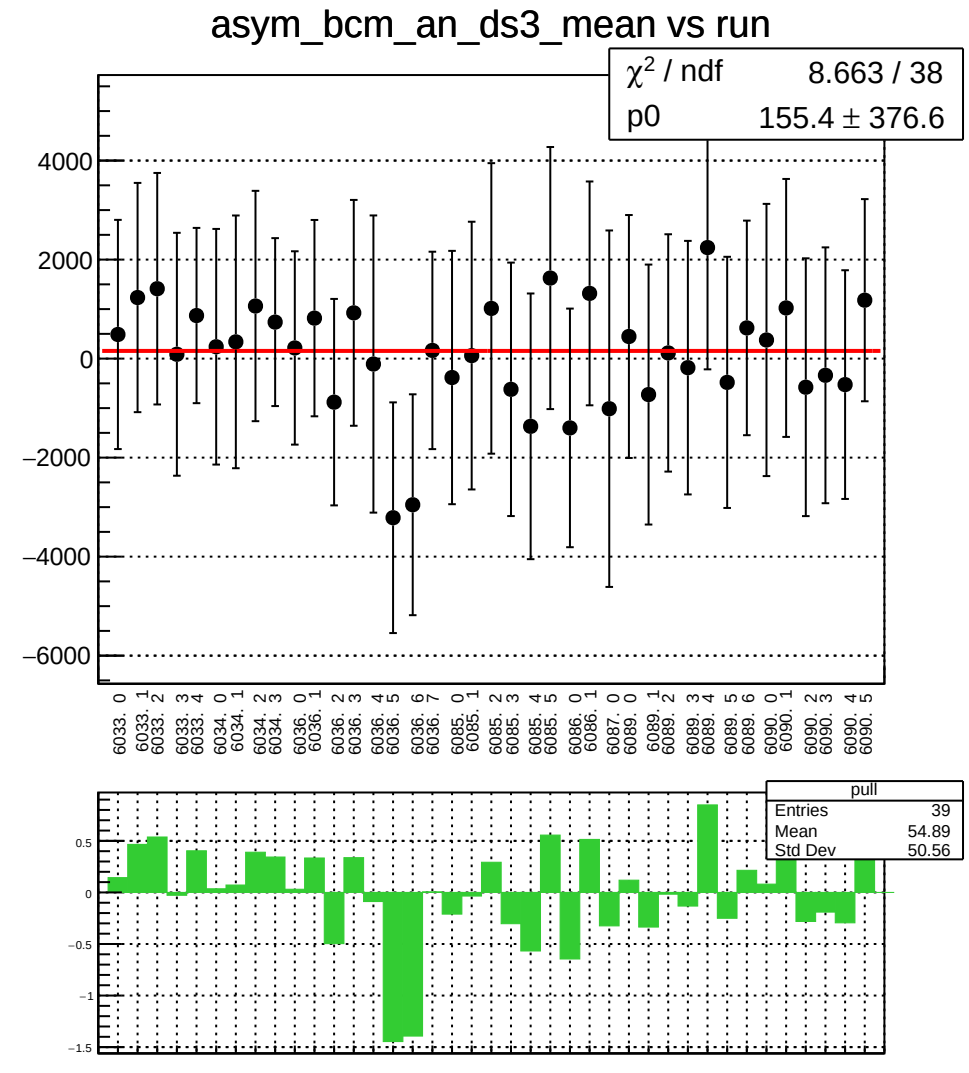

pull1D
Entries 39
Mean −5.063
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

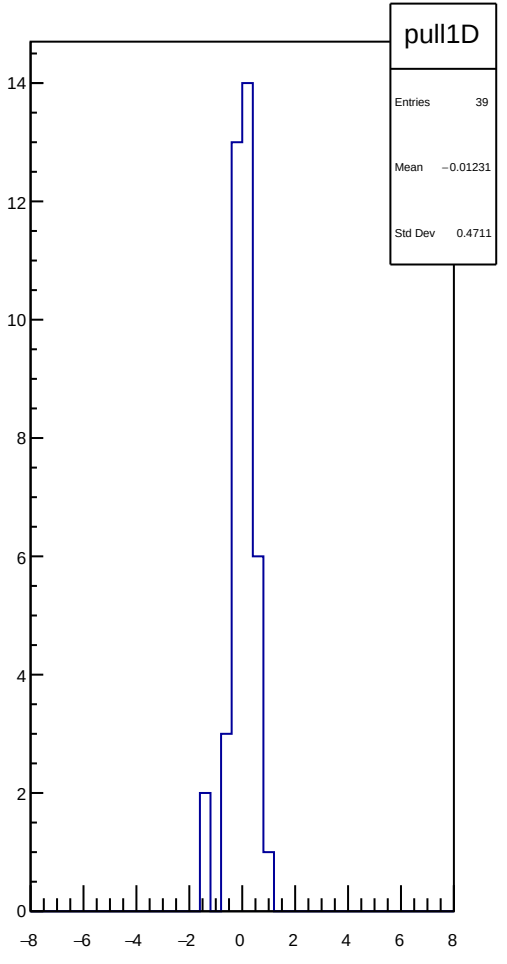

yield_bpm0l01WS_rms vs run
χ² / ndf 7703 / 38
p0 135.3 ± 0.1548
180
170
160
150
140
130
120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

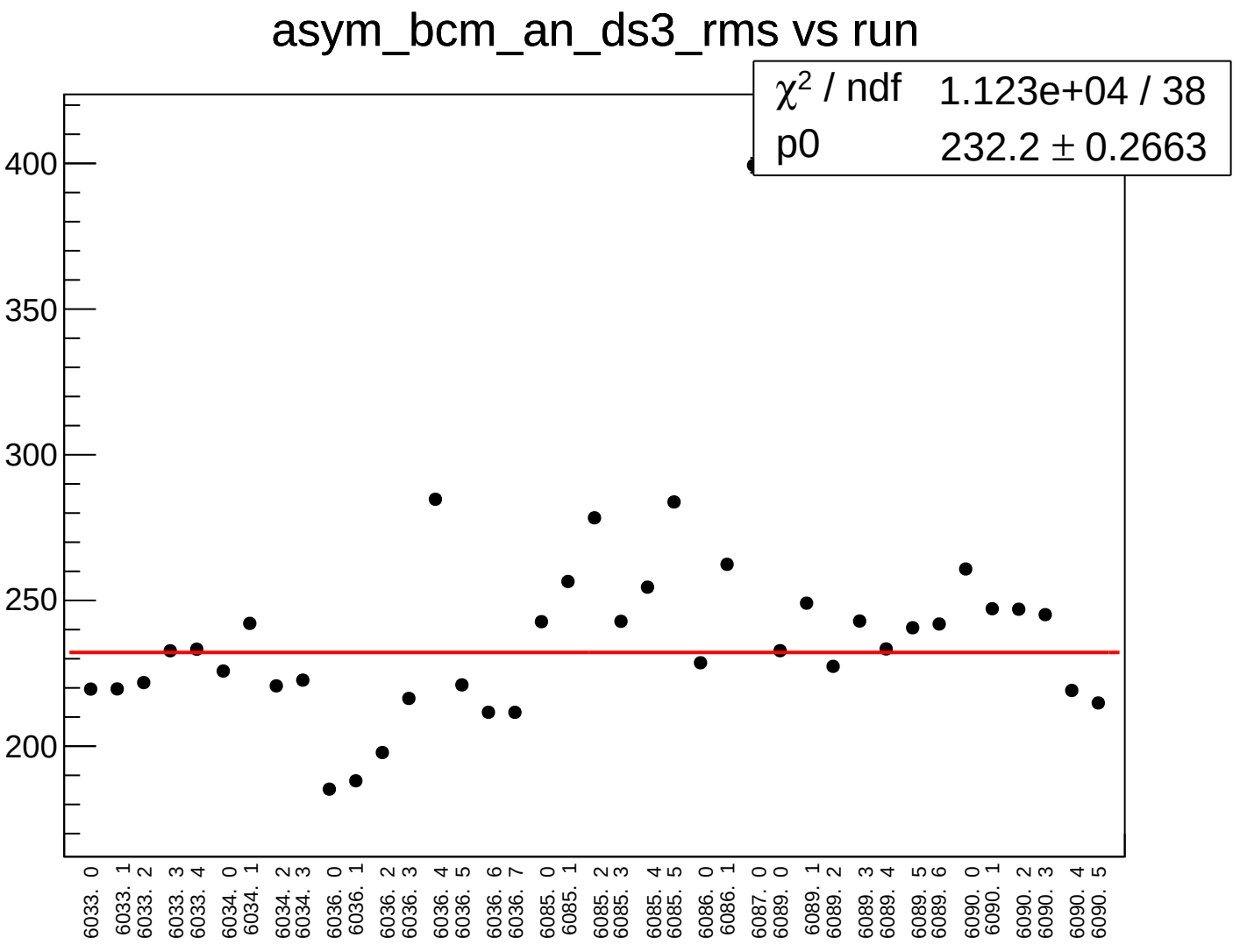

asym_bcm_an_ds_mean vs run
χ² / ndf 8.796 / 38
p0 178.8 ± 375.6
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 64.59
Std Dev 56.46
0.5
0
−0.5
−1
−1.5

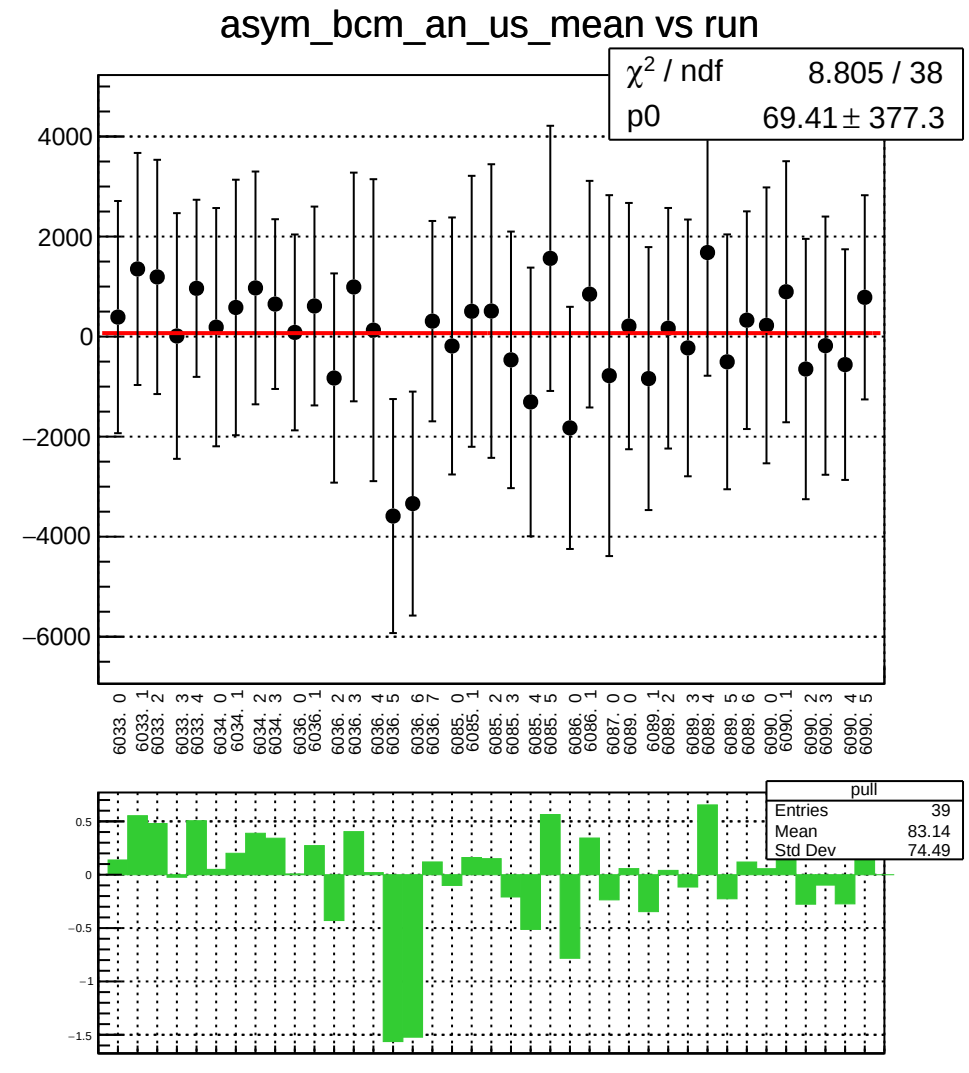

pull1D
Entries 39
Mean −0.01341
Std Dev 0.4747
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

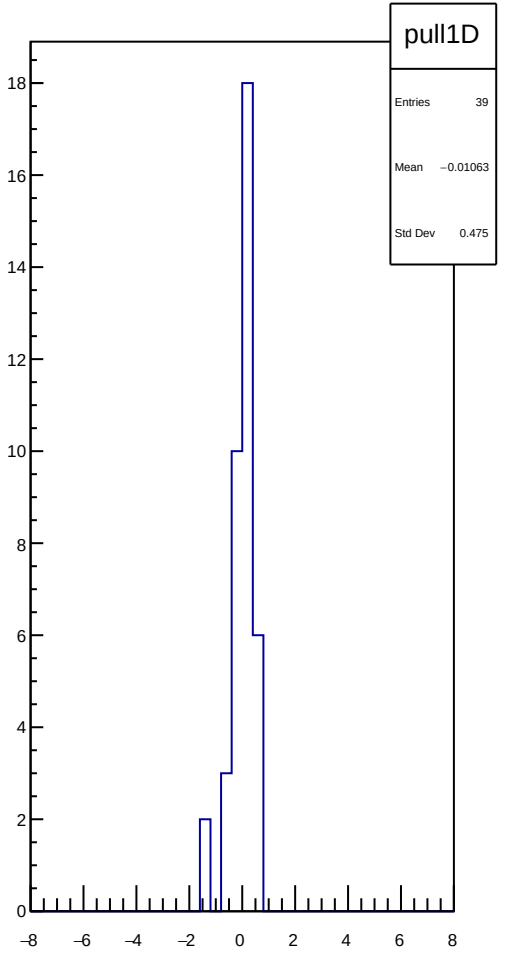

asym_bcm_an_ds_rms vs run
χ² / ndf 1.13e+04 / 38
p0 231.6 ± 0.2656
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

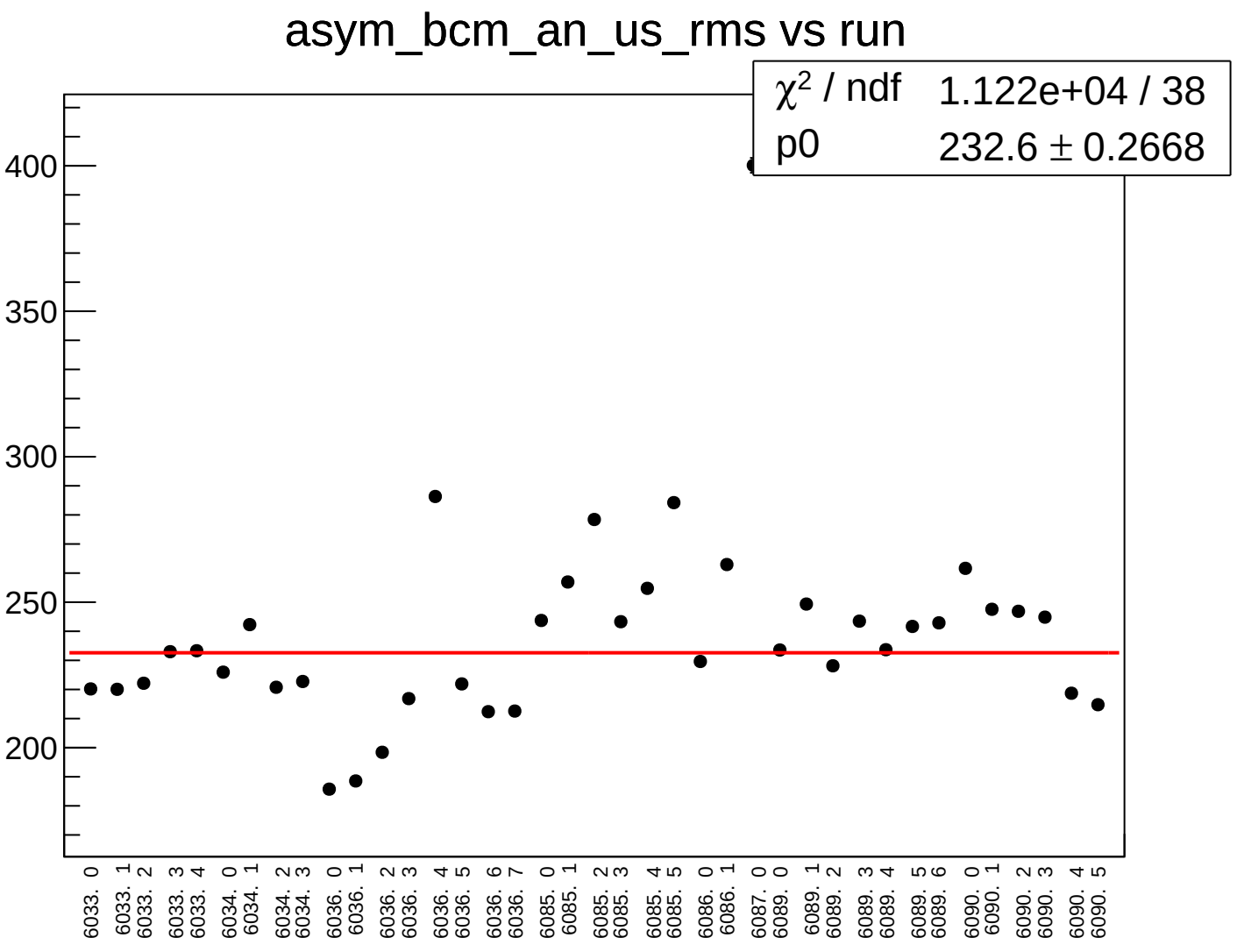

asym_bcm_an_ds3_mean vs run
χ² / ndf 8.663 / 38
p0 155.4 ± 376.6
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 54.89
Std Dev 50.56
0.5
0
−0.5
−1
−1.5

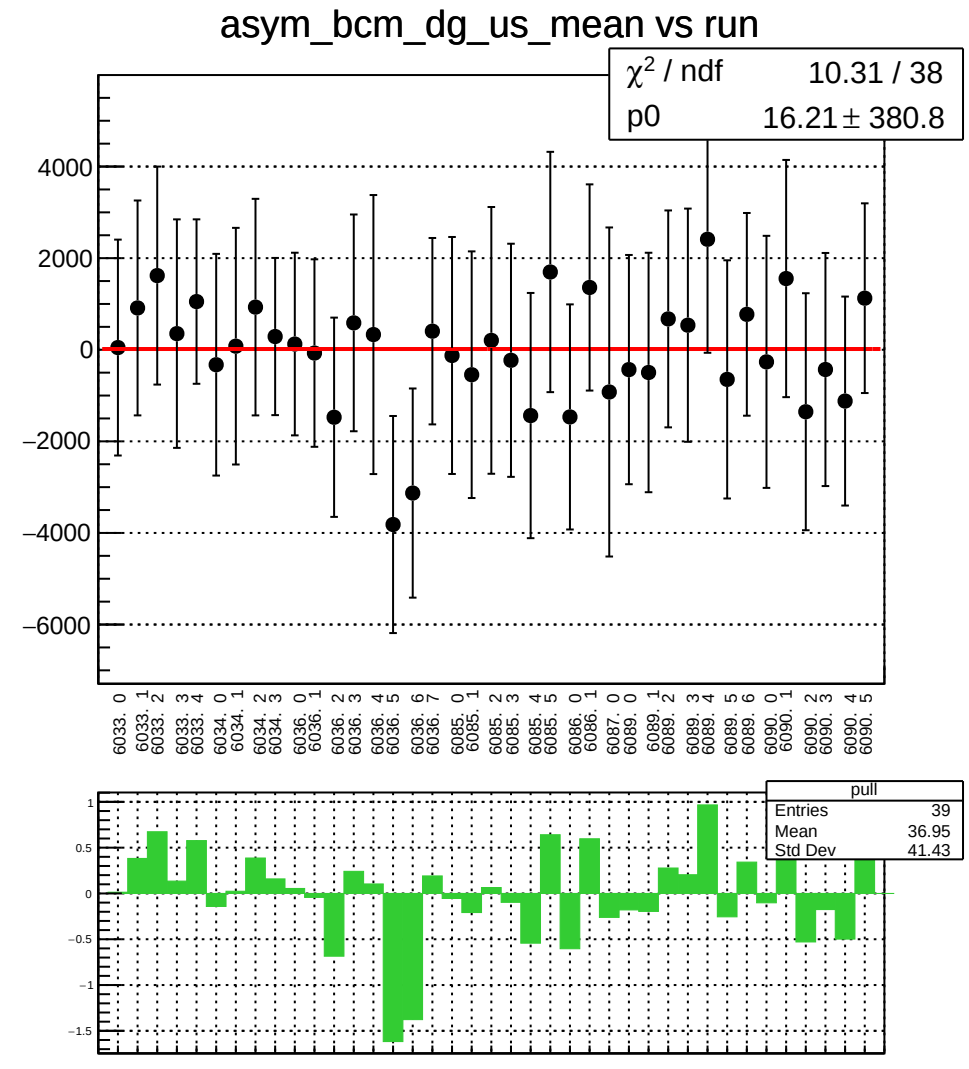

pull1D
Entries 39
Mean −0.01231
Std Dev 0.4711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

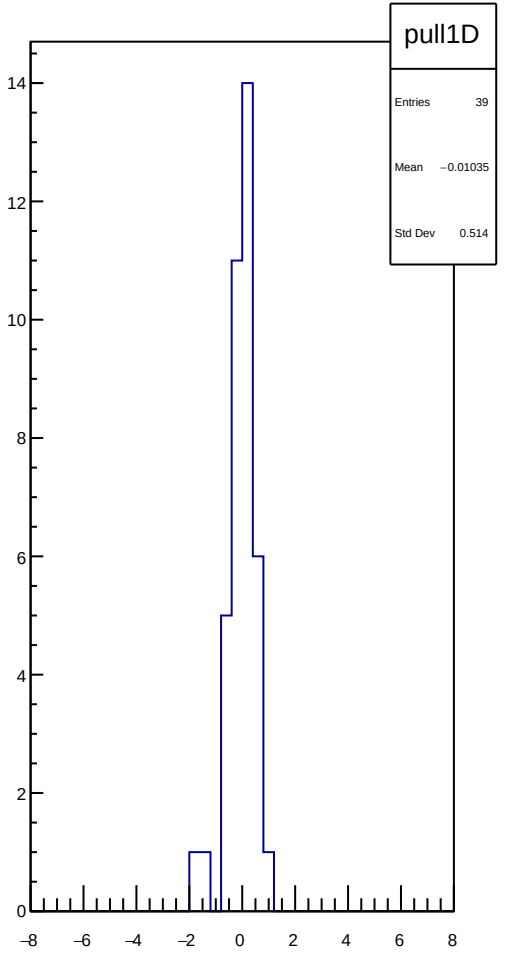

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.123e+04 / 38
p0 232.2 ± 0.2663
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

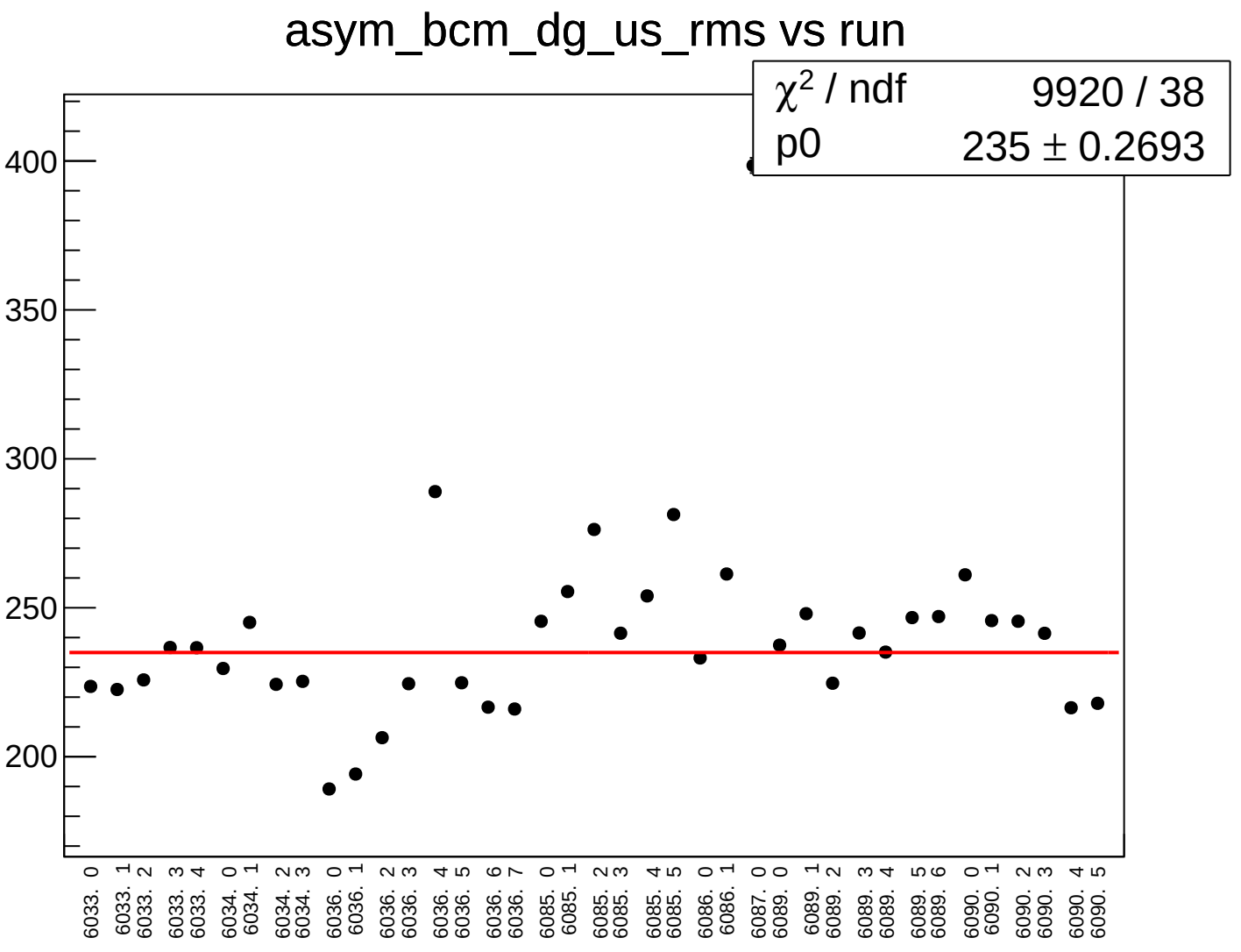

asym_bcm_an_us_mean vs run
χ² / ndf 8.805 / 38
p0 69.41 ± 377.3
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 83.14
Std Dev 74.49
0.5
0
−0.5
−1
−1.5

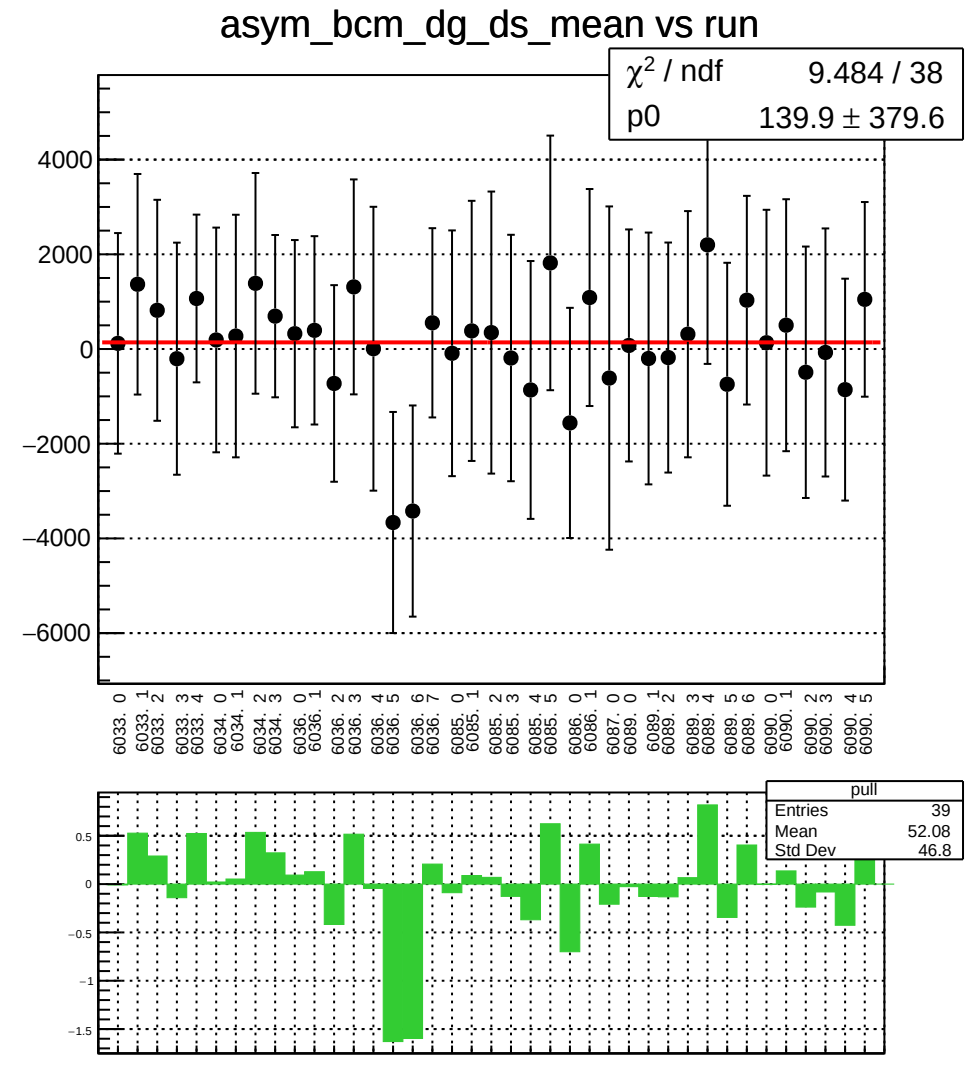

pull1D
Entries 39
Mean −0.01063
Std Dev 0.475
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

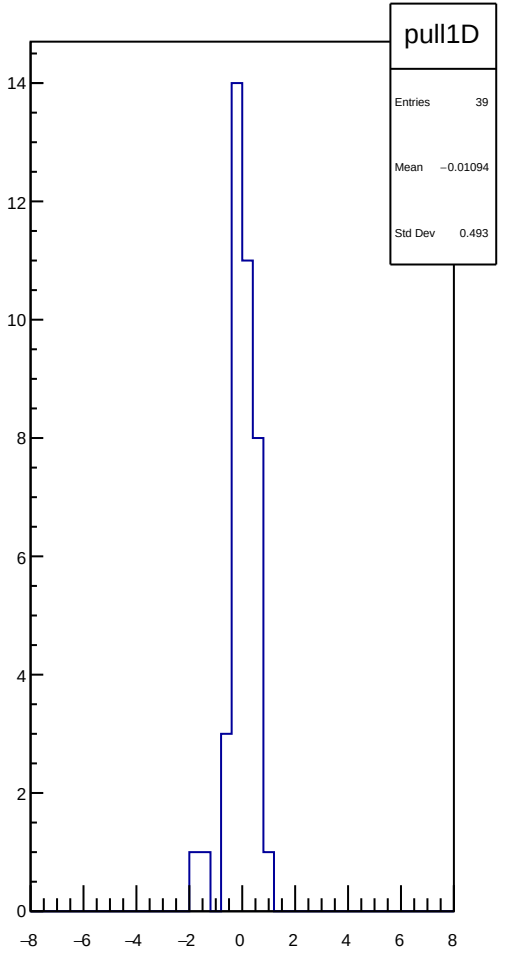

asym_bcm_an_us_rms vs run
χ² / ndf 1.122e+04 / 38
p0 232.6 ± 0.2668
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

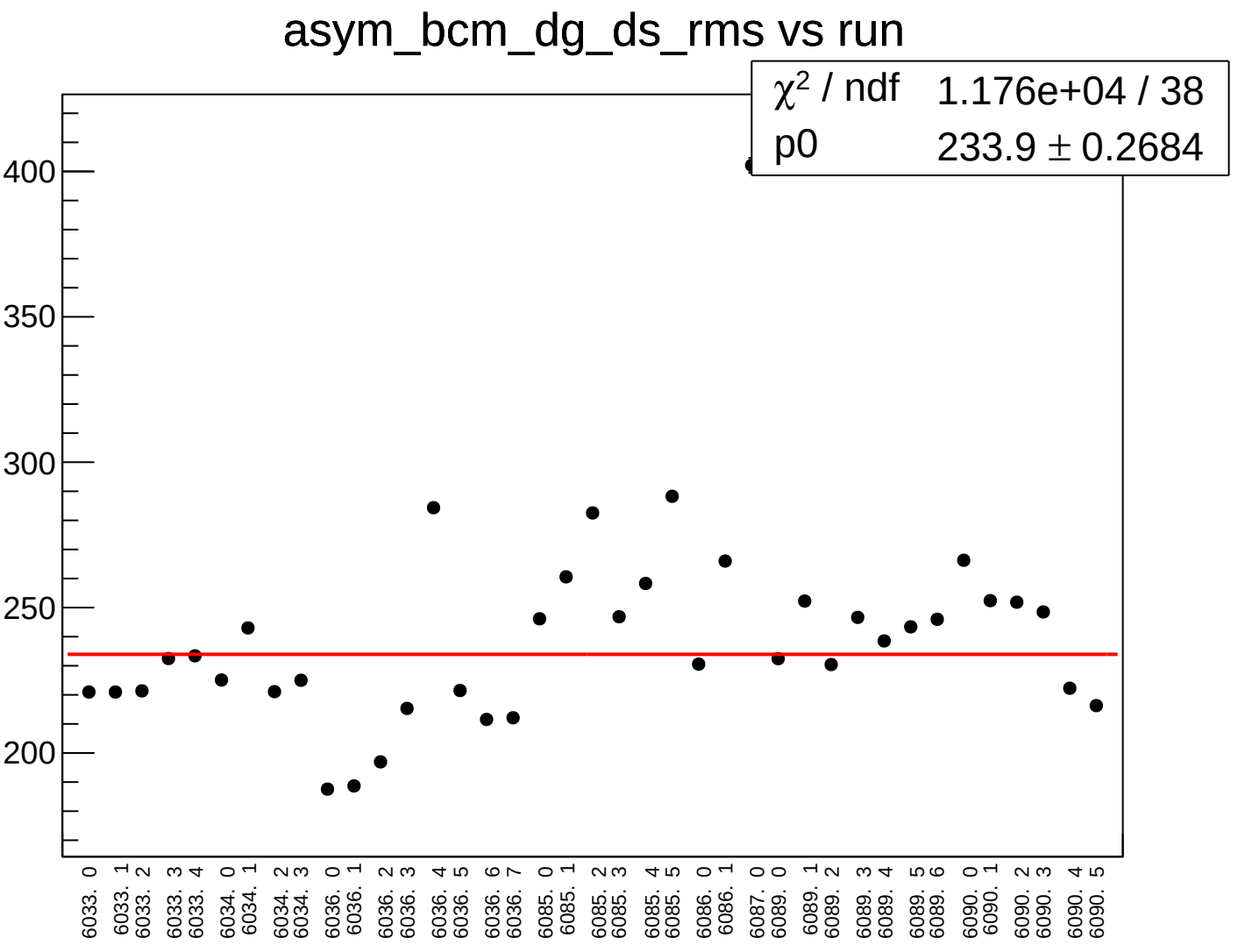

asym_bcm_dg_us_mean vs run
χ² / ndf 10.31 / 38
p0 16.21 ± 380.8
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.95
Std Dev 41.43
1
0.5
0
−0.5
−1
−1.5

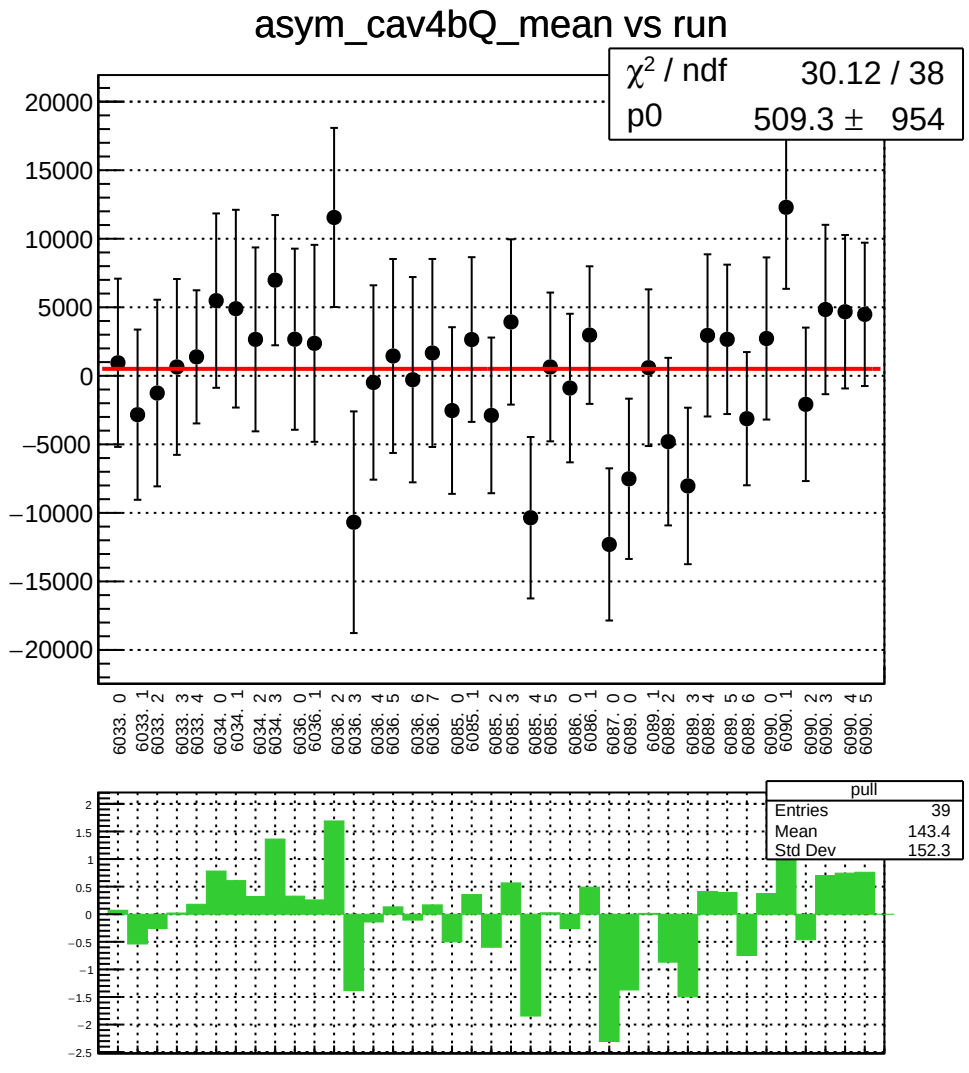

pull1D
Entries 39
Mean −0.01035
Std Dev 0.514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

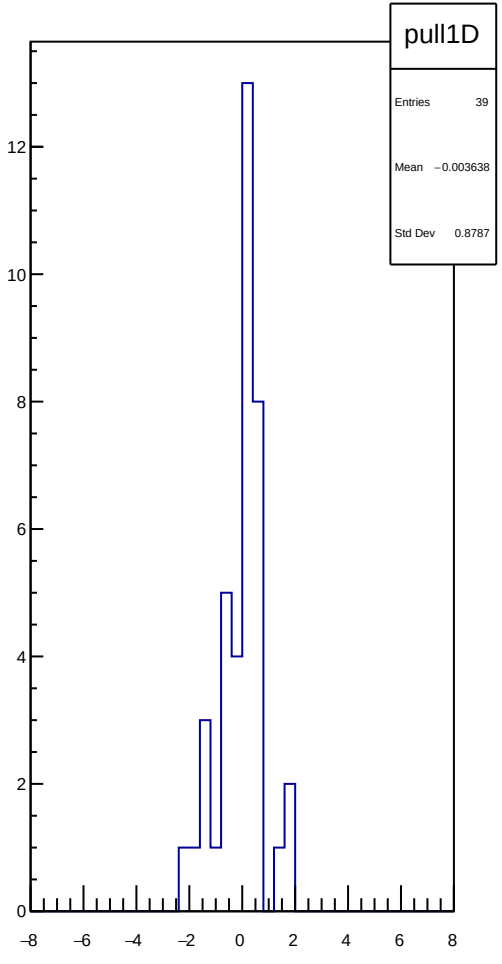

asym_bcm_dg_us_rms vs run
χ² / ndf 9920 / 38
p0 235 ± 0.2693
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

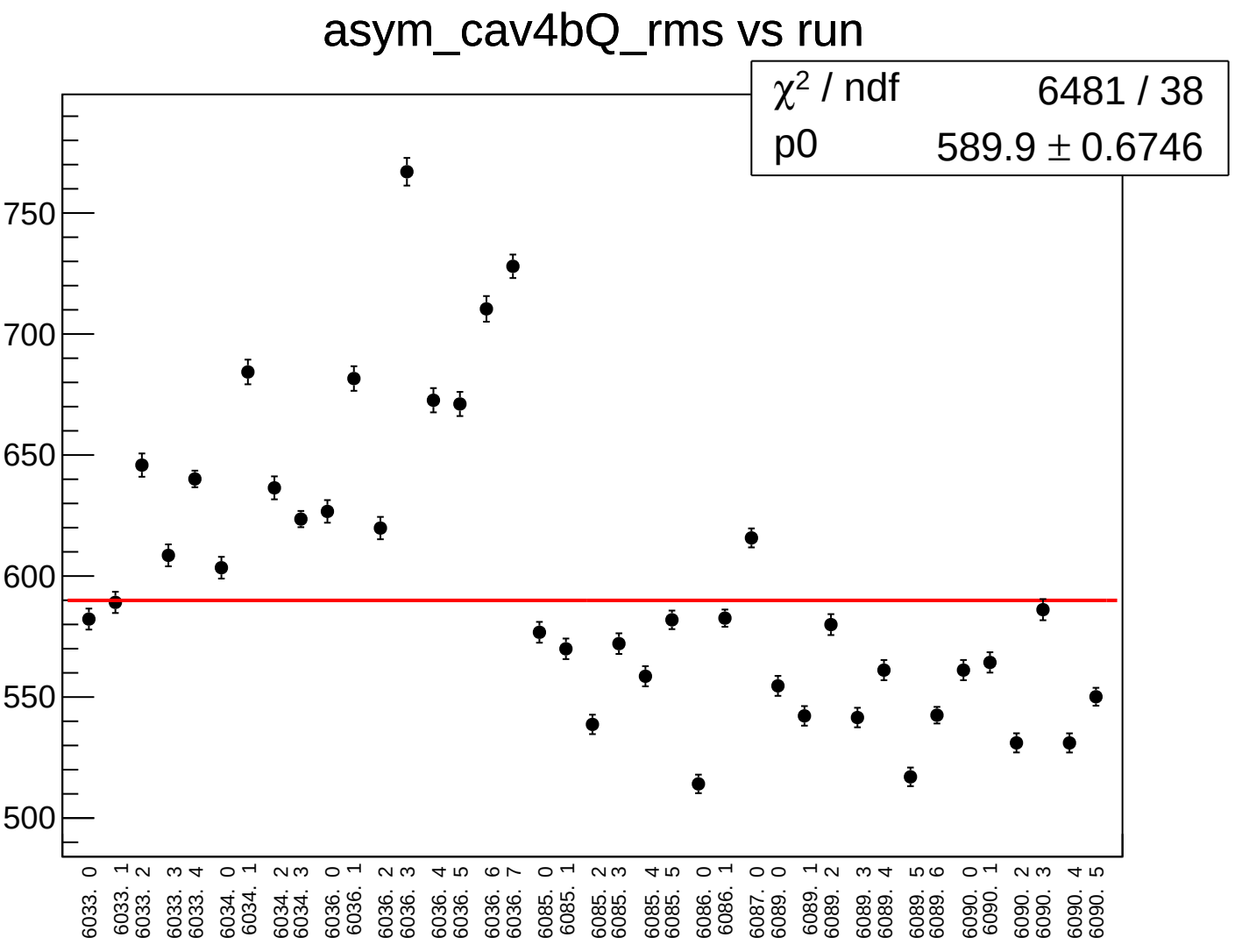

asym_bcm_dg_ds_mean vs run
χ² / ndf 9.484 / 38
p0 139.9 ± 379.6
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 52.08
Std Dev 46.8
0.5
0
−0.5
−1
−1.5

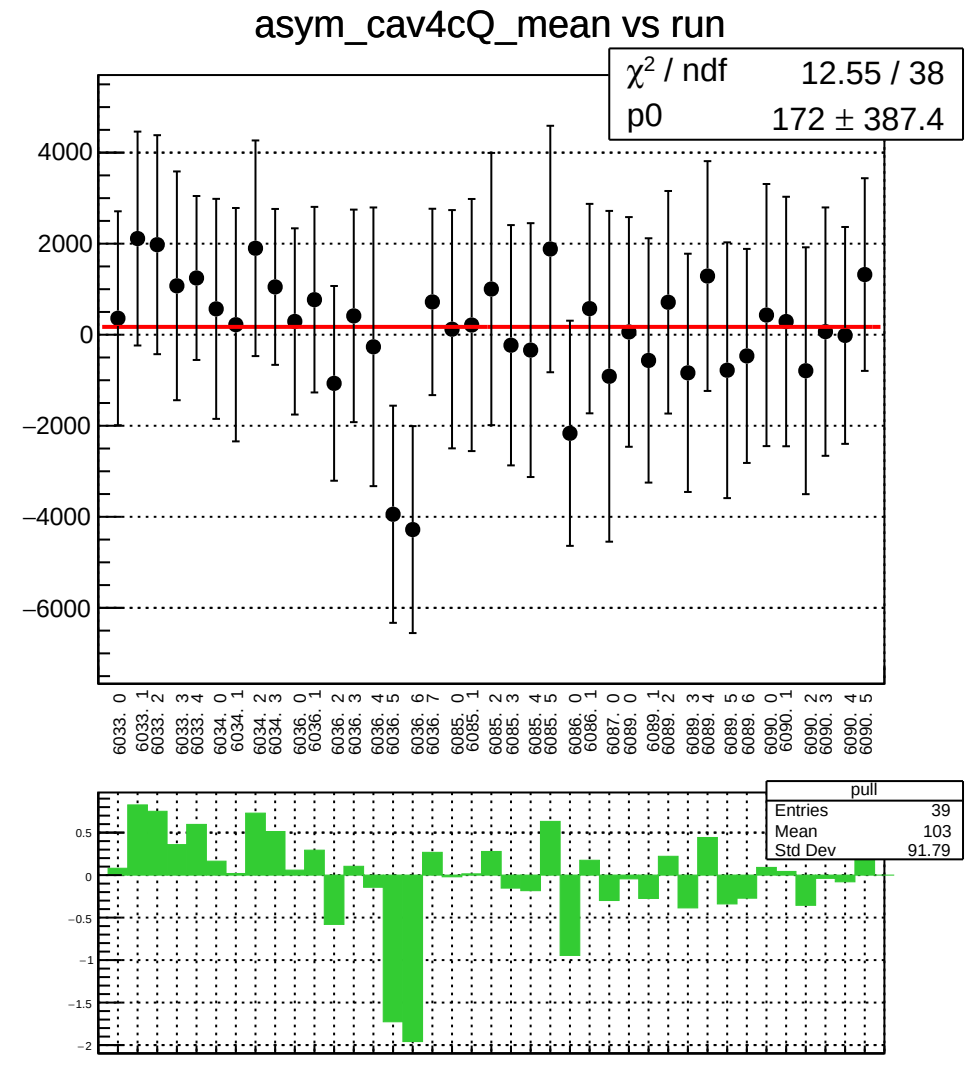

pull1D
Entries 39
Mean −0.01094
Std Dev 0.493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

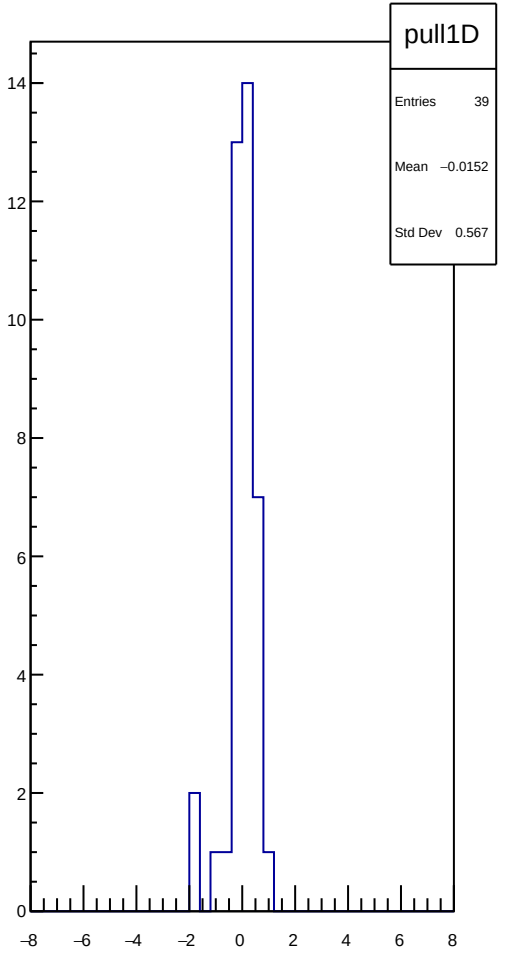

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.176e+04 / 38
p0 233.9 ± 0.2684
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

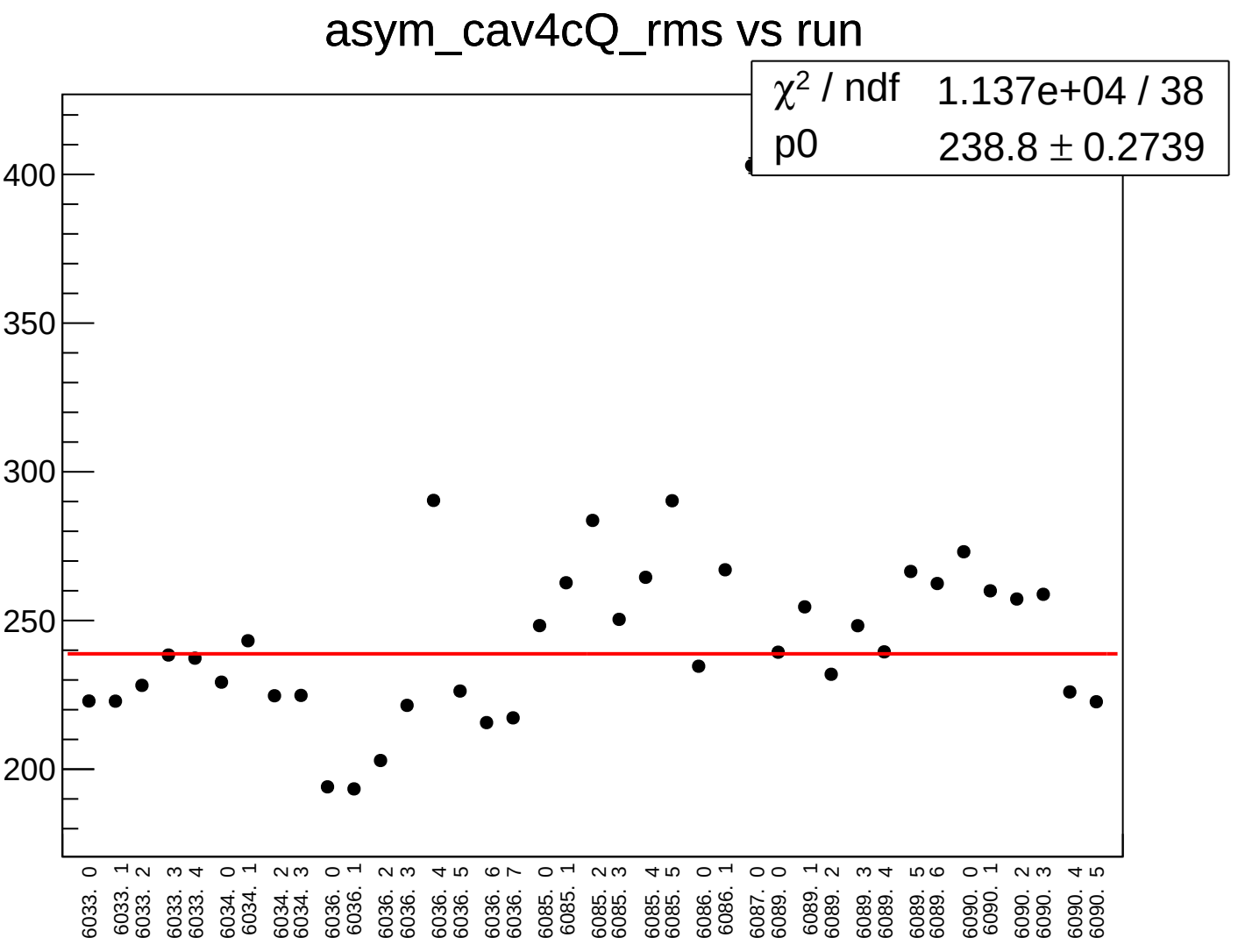

asym_cav4bQ_mean vs run
χ² / ndf 30.12 / 38
p0 509.3 ± 954
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 143.4
Std Dev 152.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

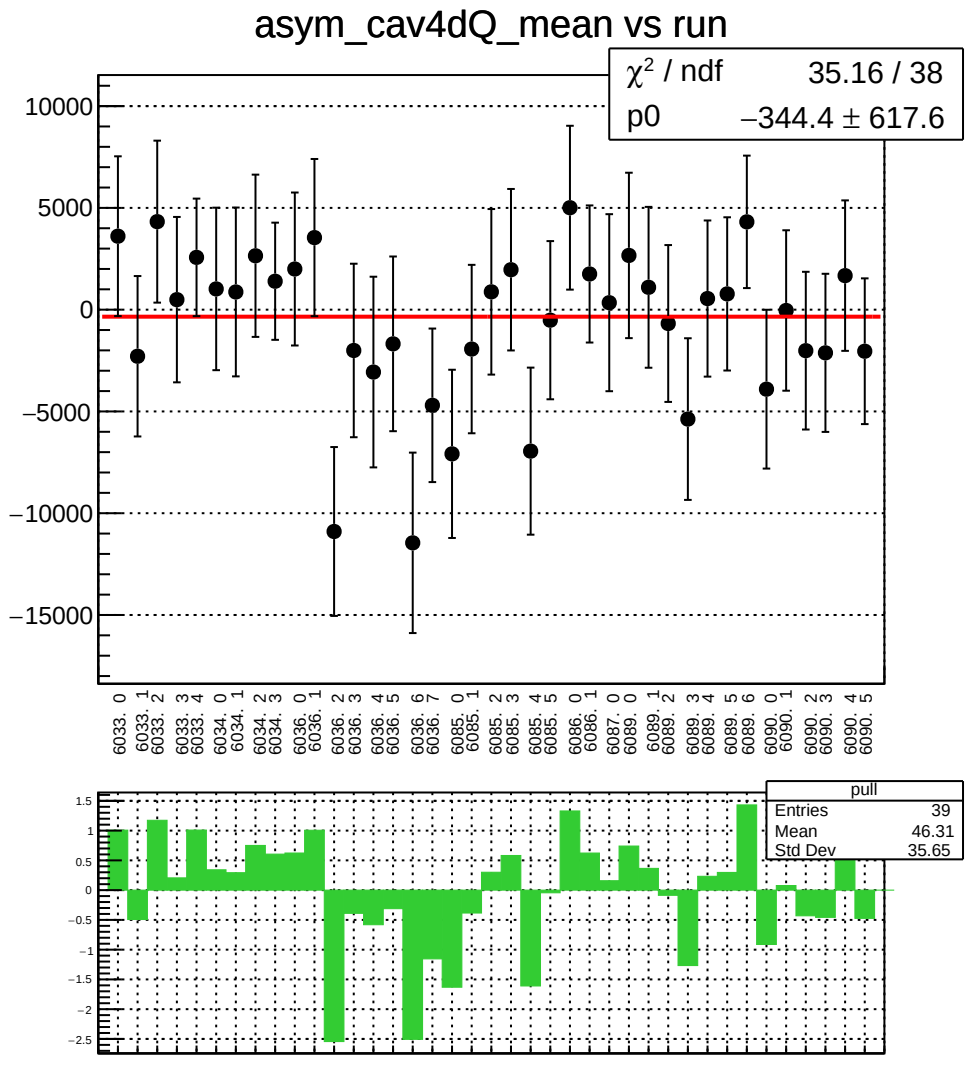

pull1D
Entries 39
Mean −0.003638
Std Dev 0.8787
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

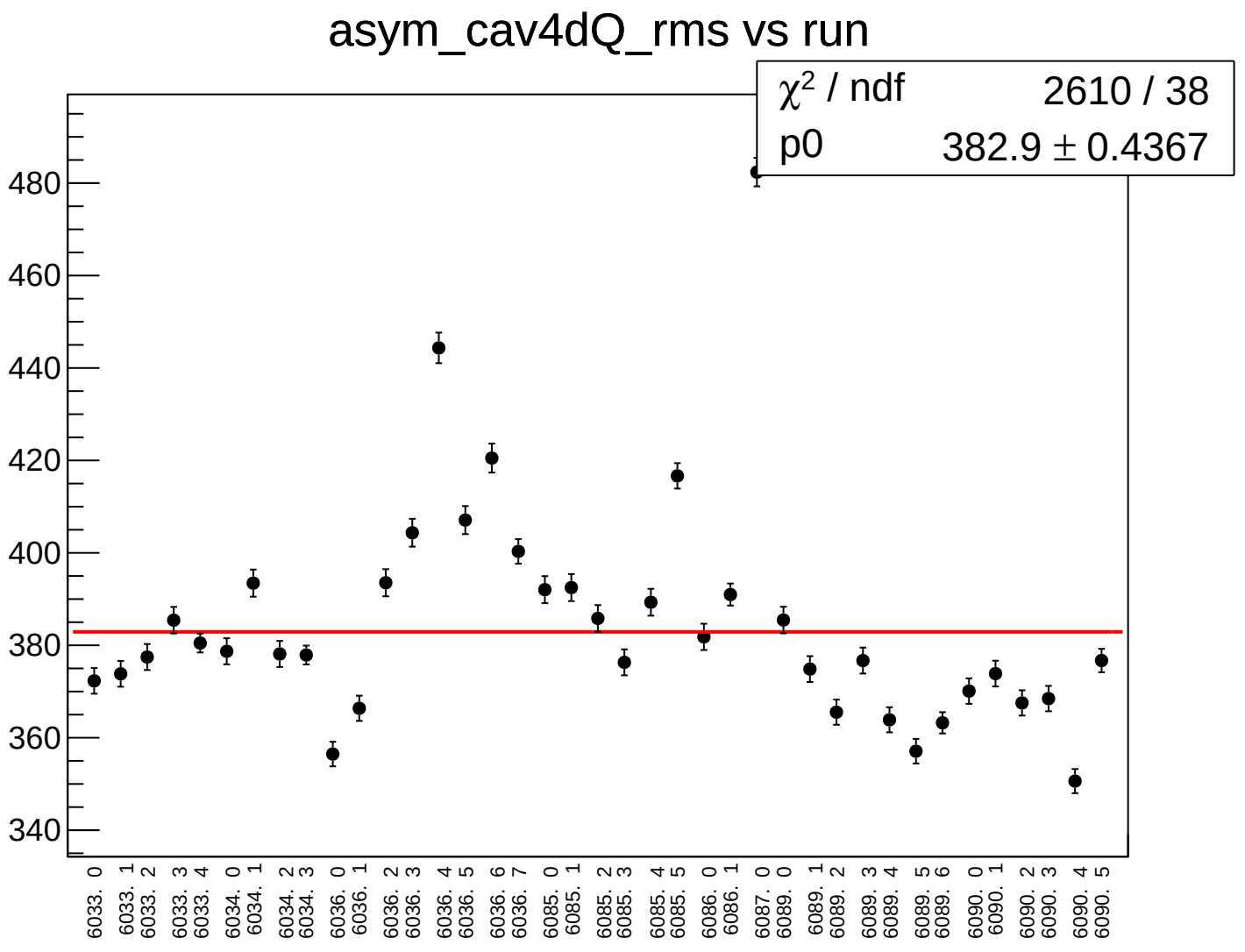

asym_cav4bQ_rms vs run
χ² / ndf 6481 / 38
p0 589.9 ± 0.6746
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

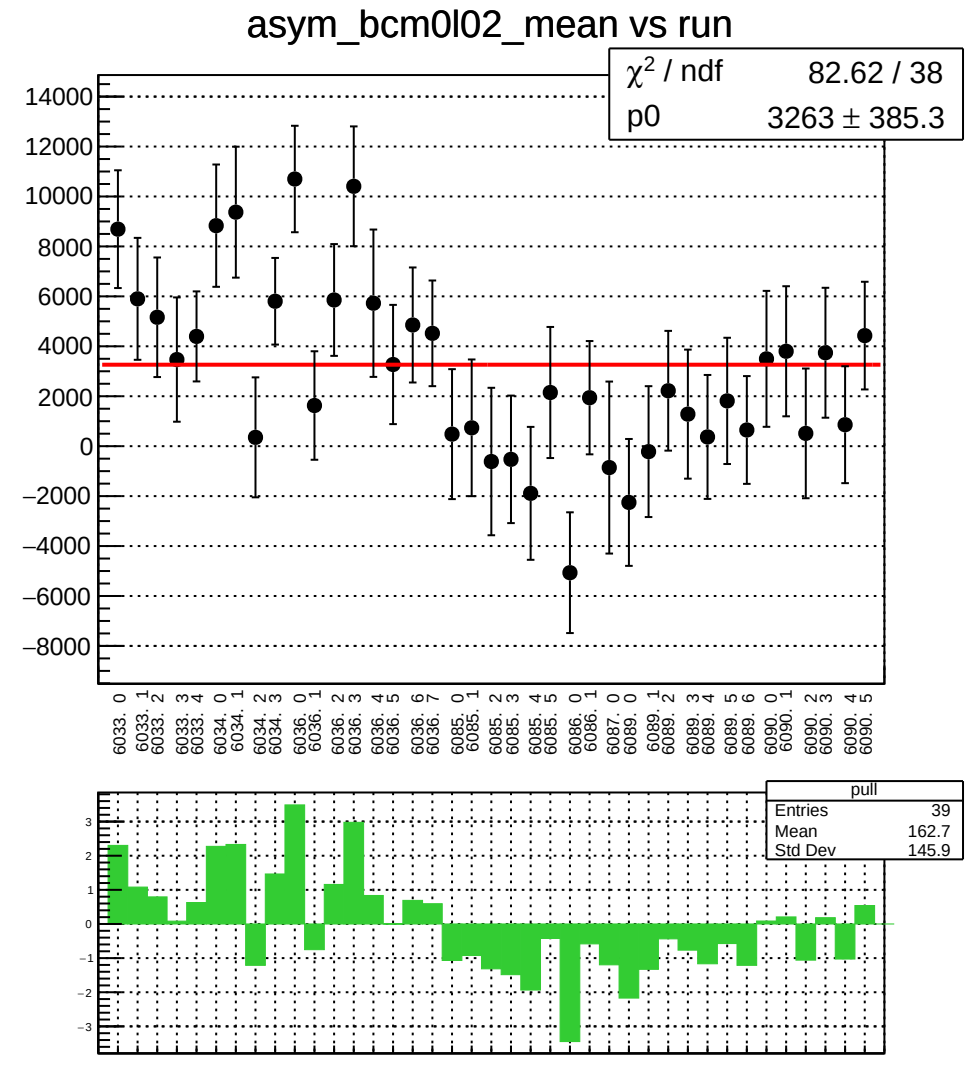

asym_cav4cQ_mean vs run
χ² / ndf 12.55 / 38
p0 172 ± 387.4
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 103
Std Dev 91.79
0.5
0
−0.5
−1
−1.5
−2

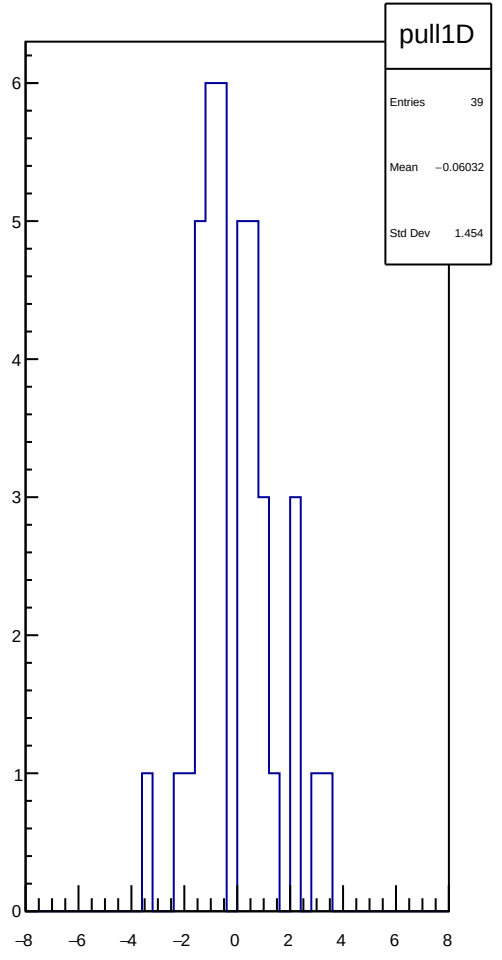

pull1D
Entries 39
Mean −0.0152
Std Dev 0.567
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

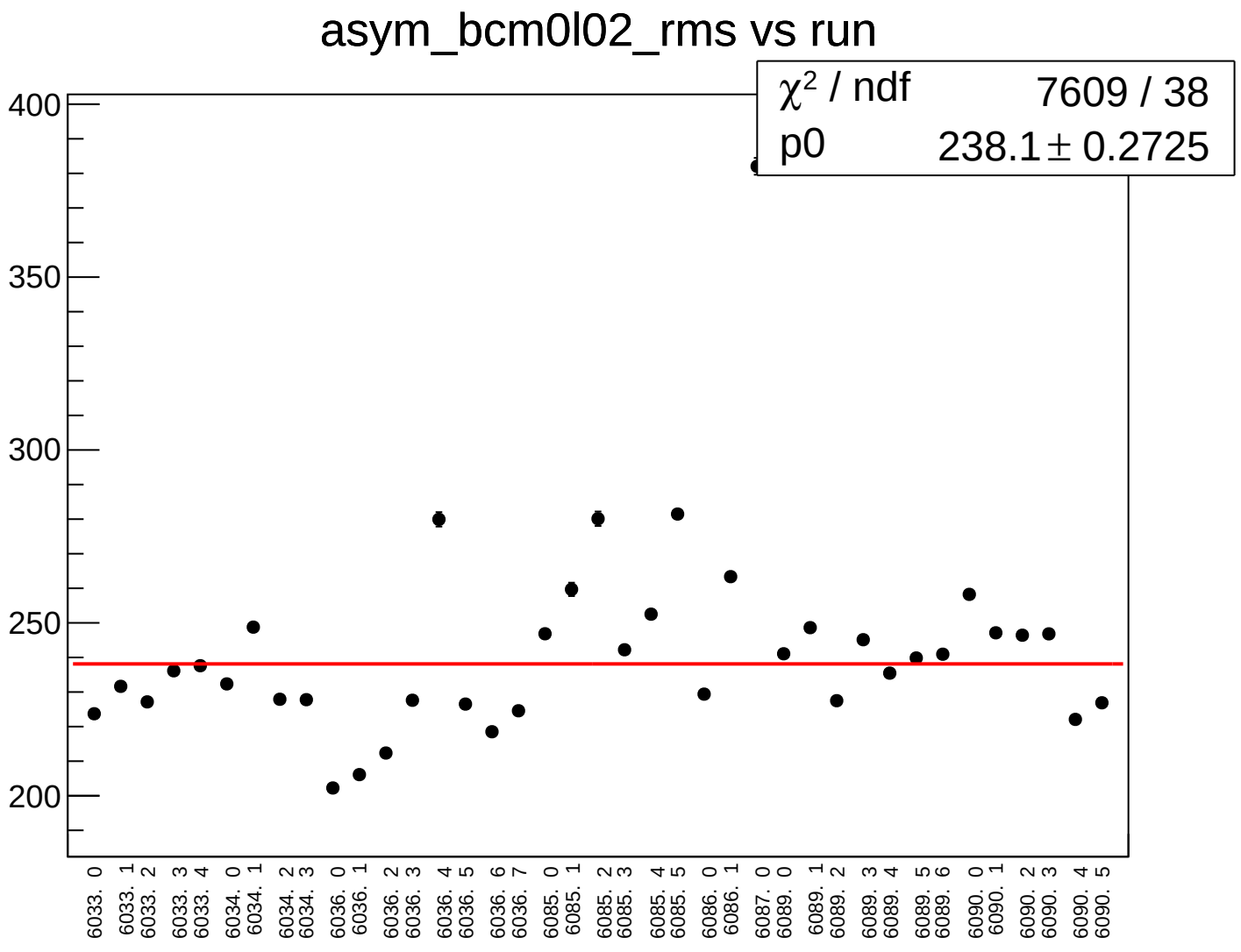

asym_cav4cQ_rms vs run
χ² / ndf 1.137e+04 / 38
p0 238.8 ± 0.2739
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

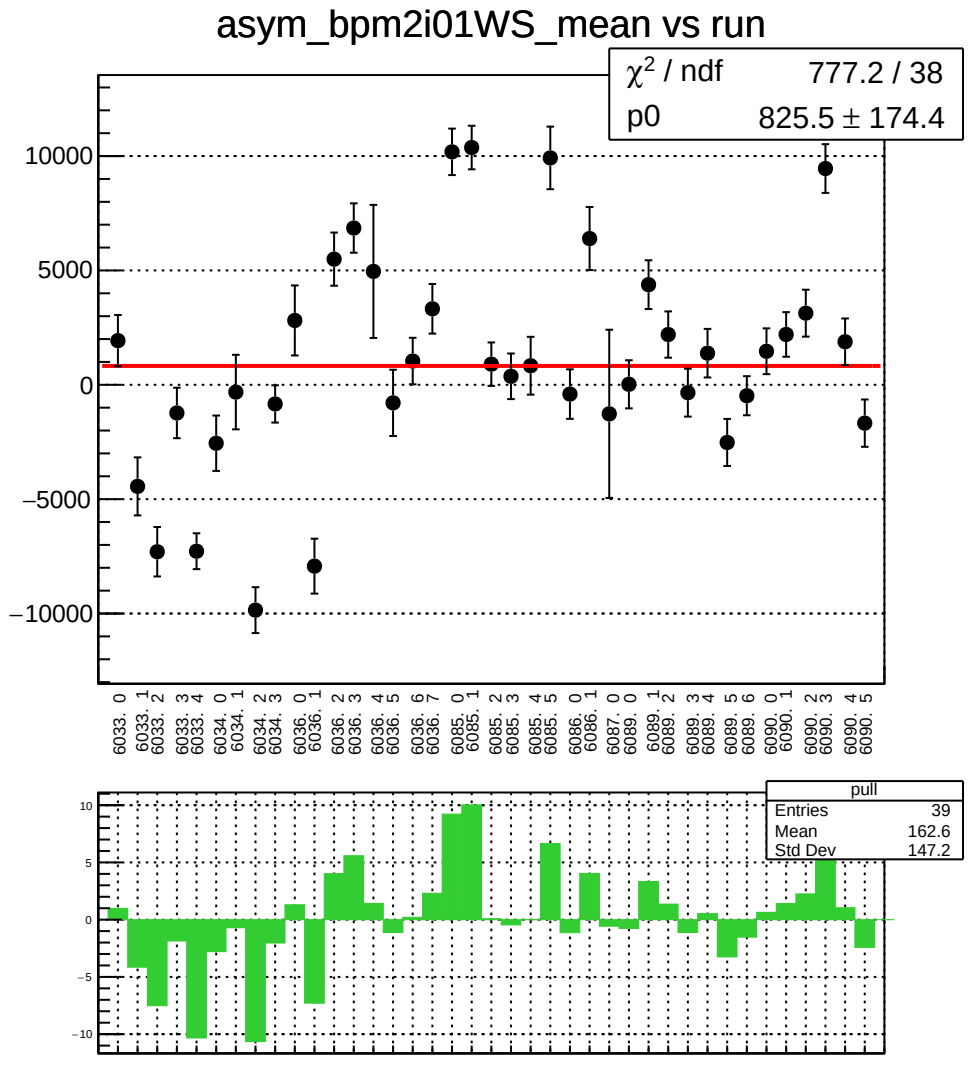

asym_cav4dQ_mean vs run
χ² / ndf 35.16 / 38
p0 −344.4 ± 617.6
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 46.31
Std Dev 35.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.04055
Std Dev 0.9486
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

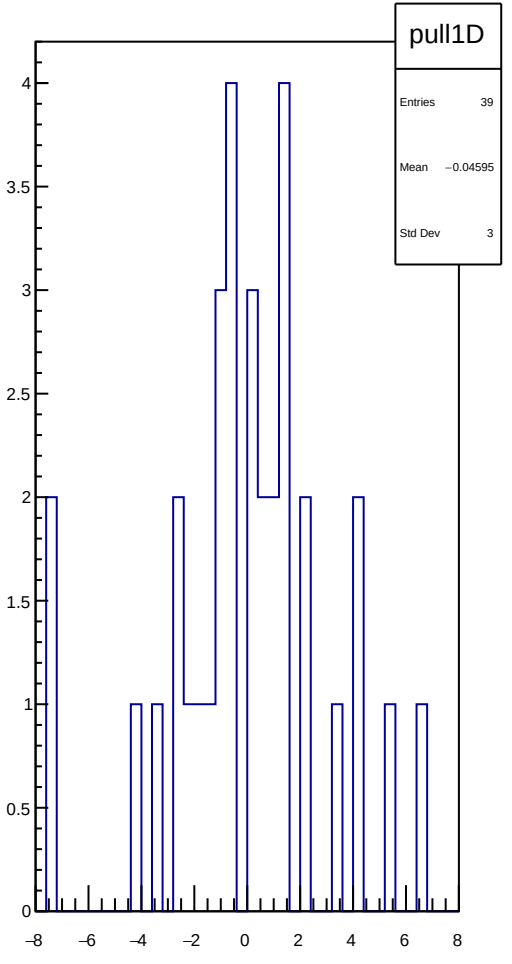

asym_cav4dQ_rms vs run
χ² / ndf 2610 / 38
p0 382.9 ± 0.4367
480
460
440
420
400
380
360
340
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

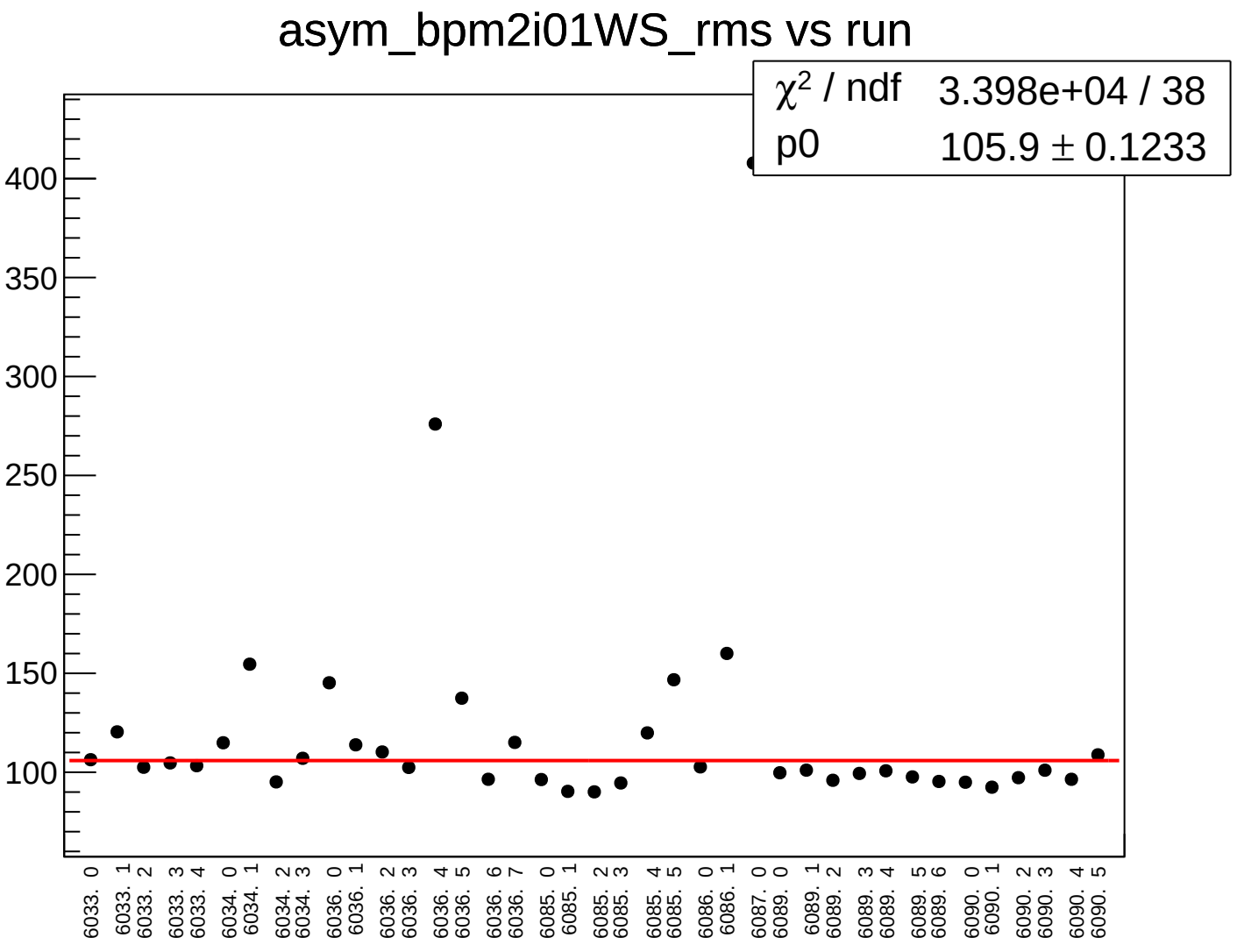

asym_bcm0l02_mean vs run
χ² / ndf 82.62 / 38
p0 3263 ± 385.3
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 162.7
Std Dev 145.9
3
2
1
0
−1
−2
−3

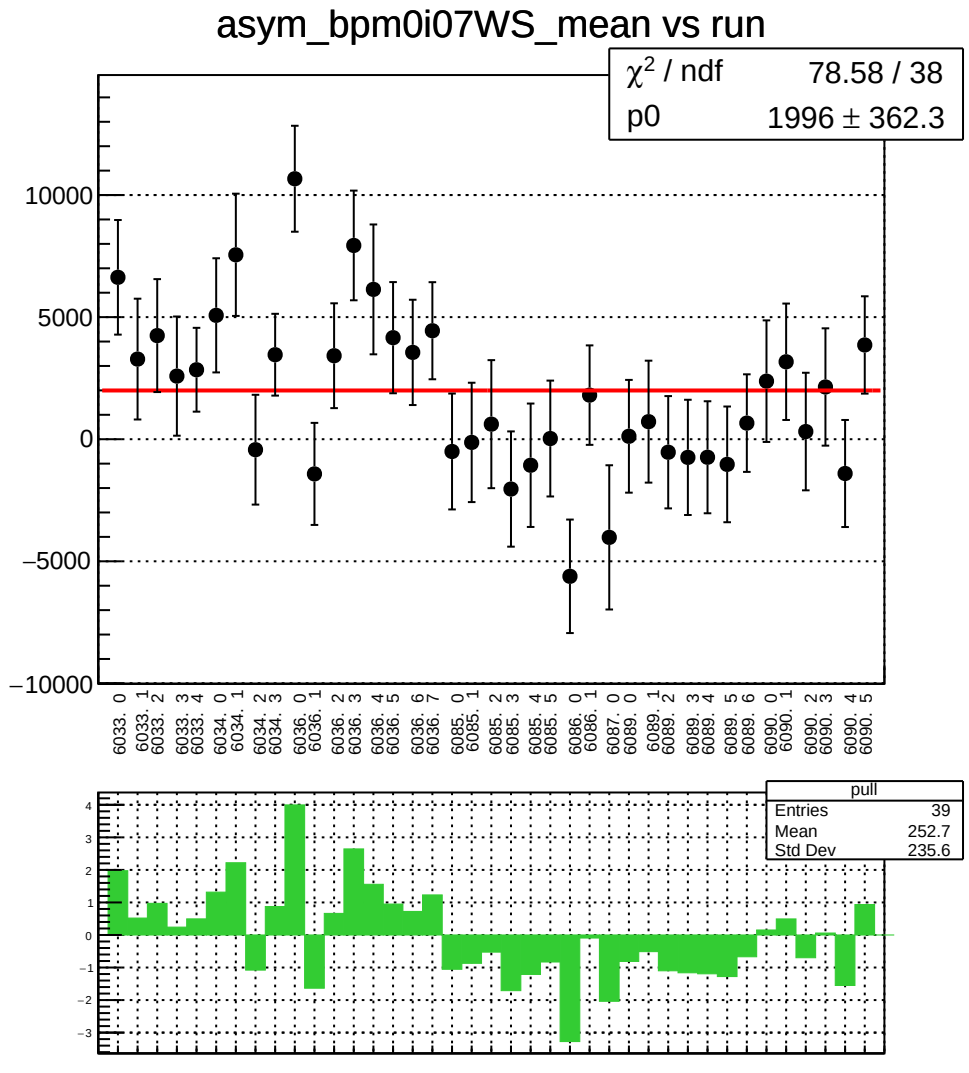

pull1D
Entries 39
Mean −0.06032
Std Dev 1.454
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

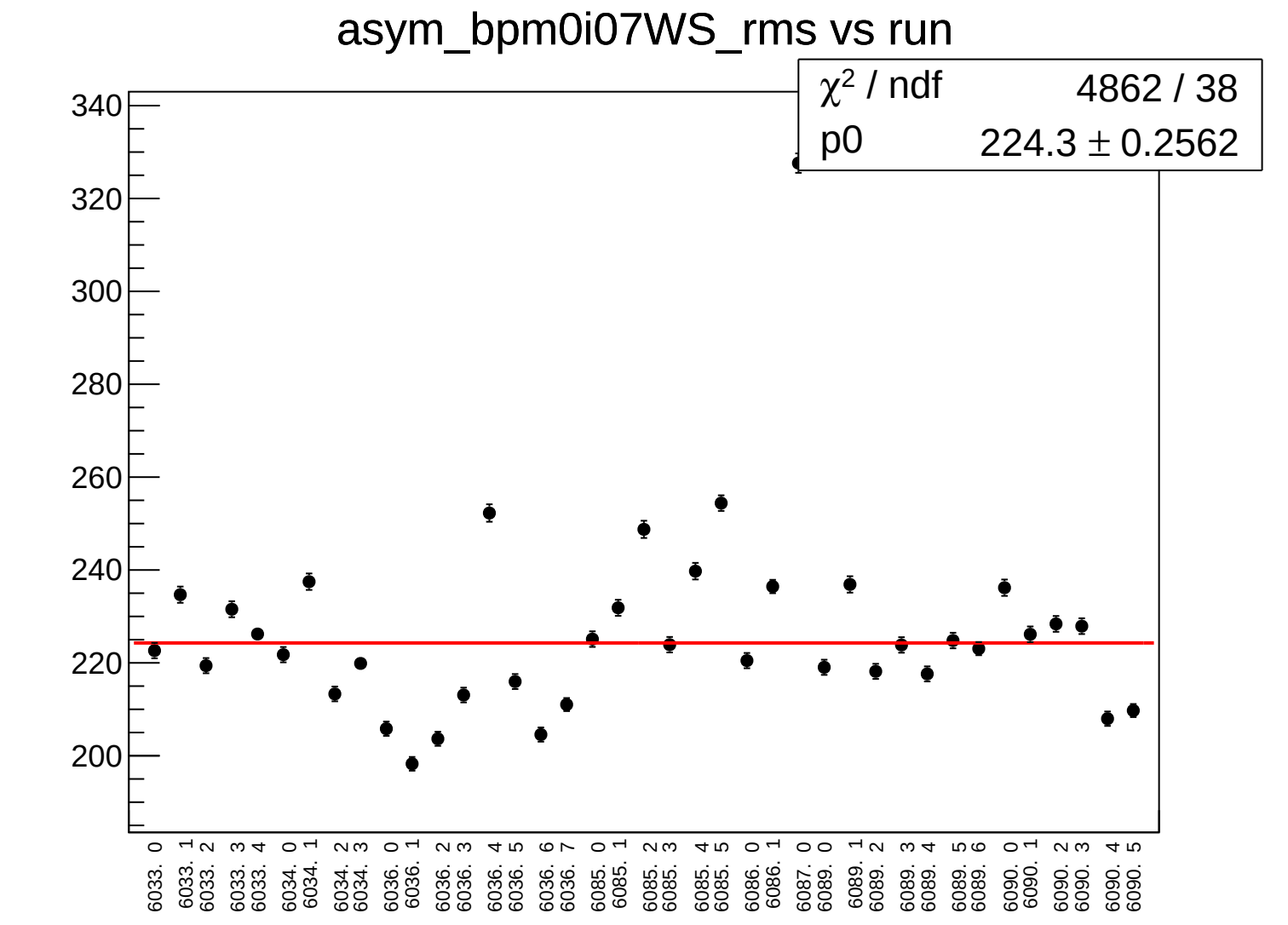

asym_bcm0l02_rms vs run
χ² / ndf 7609 / 38
p0 238.1 ± 0.2725
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

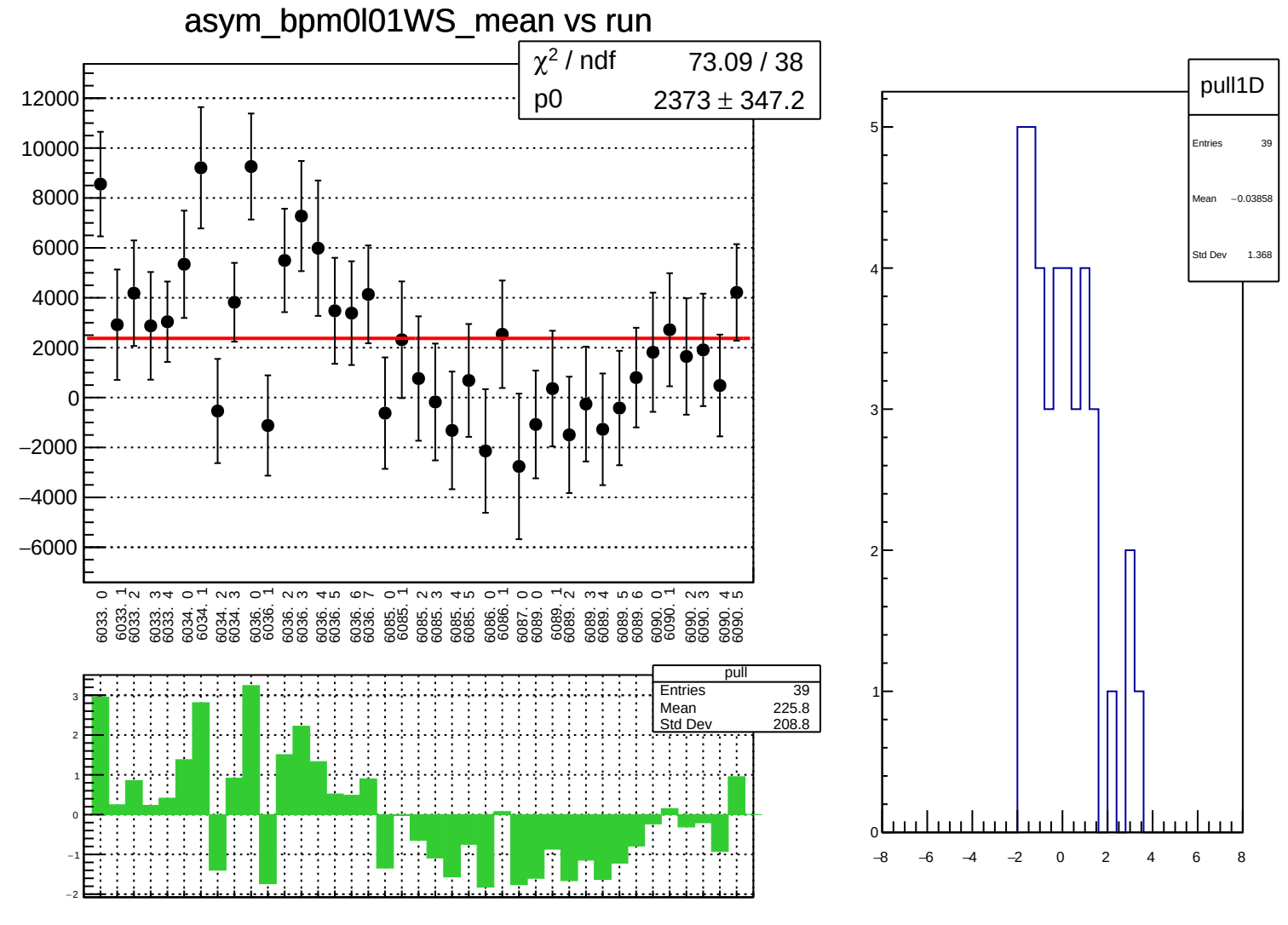

asym_bpm2i01WS_mean vs run
χ^2 / ndf 777.2 / 38
p0 825.5 ± 174.4
10000
5000
0
−5000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 162.6
Std Dev 147.2
10
5
0
−5
−10

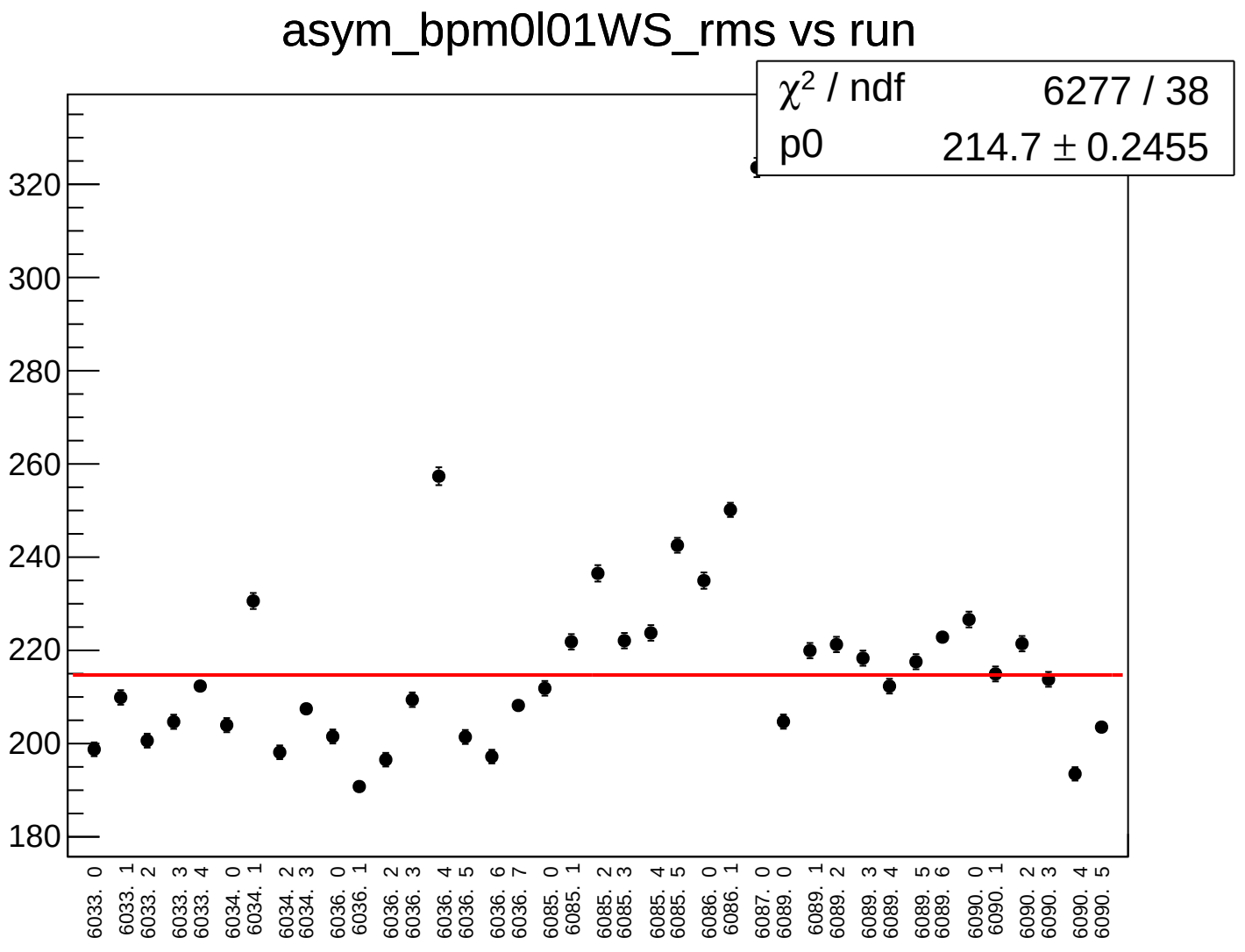

pull1D
Entries 39
Mean −0.04595
Std Dev 3
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i01WS_rms vs run
χ² / ndf 3.398e+04 / 38
p0 105.9 ± 0.1233
400
350
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_bpm0i07WS_mean vs run
χ² / ndf 78.58 / 38
p0 1996 ± 362.3
10000
5000
0
−5000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 252.7
Std Dev 235.6
4
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.03265
Std Dev 1.419
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 4862 / 38
p0 224.3 ± 0.2562
340
320
300
280
260
240
220
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_bpm0l01WS_mean vs run
χ² / ndf 73.09 / 38
p0 2373 ± 347.2
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 225.8
Std Dev 208.8
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03858
Std Dev 1.368
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l01WS_rms vs run
χ² / ndf 6277 / 38
p0 214.7 ± 0.2455
320
300
280
260
240
220
200
180
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
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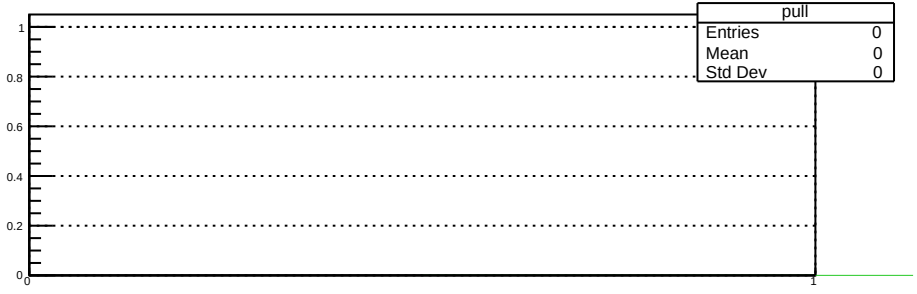
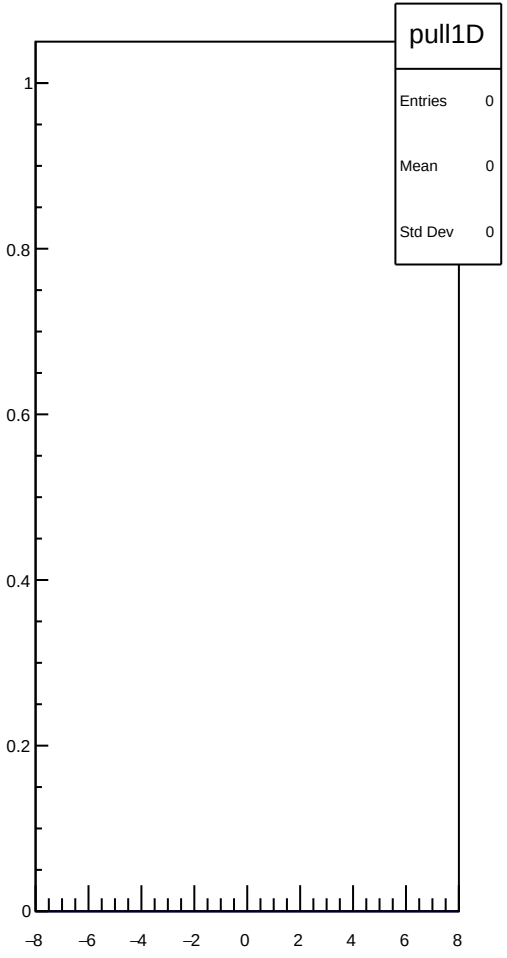
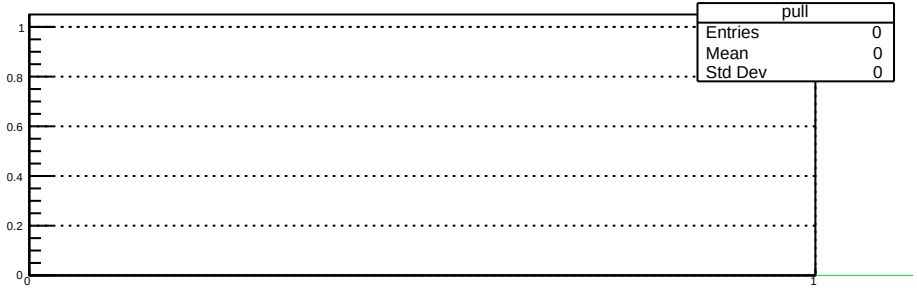
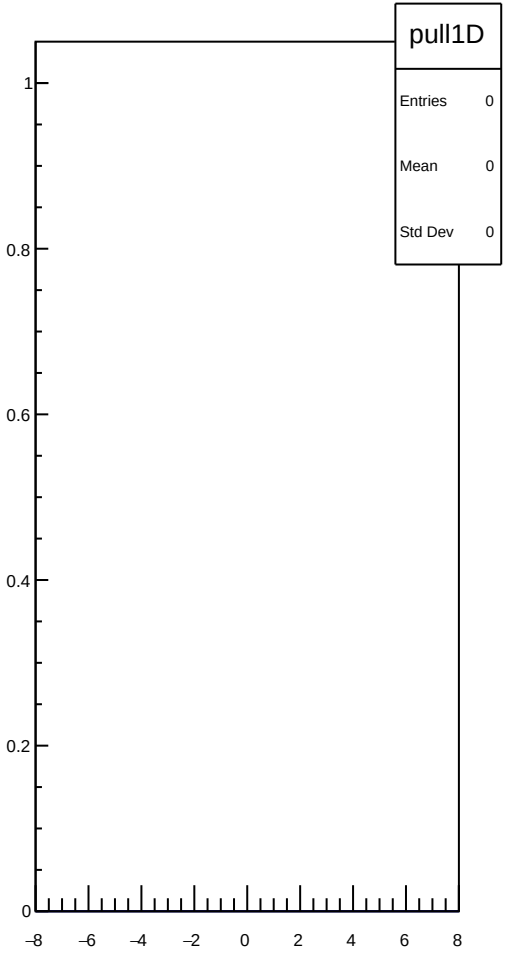
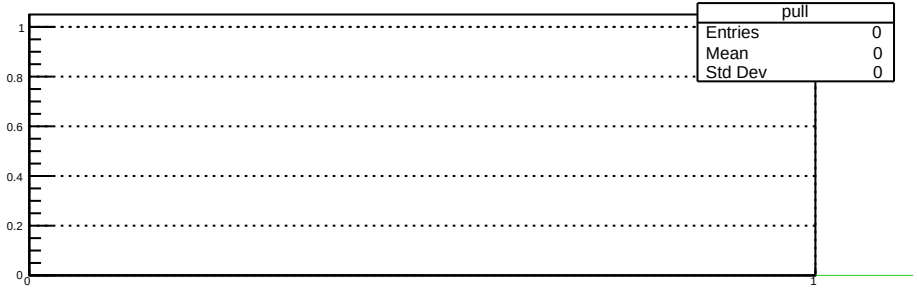
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

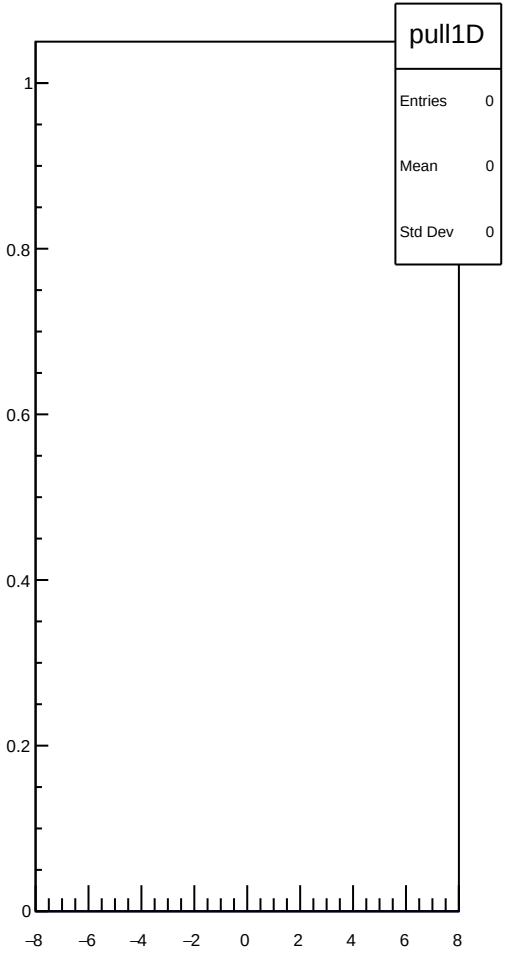

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

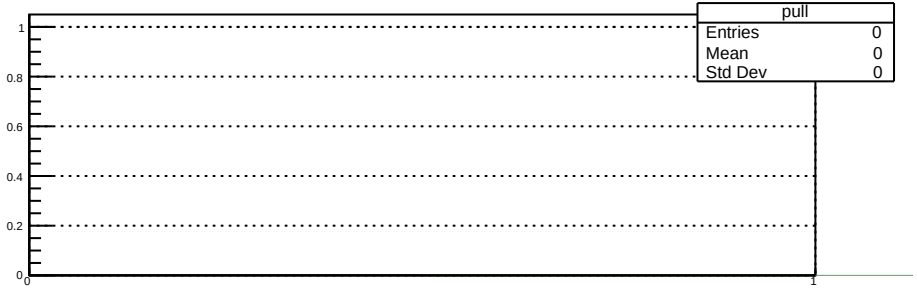

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

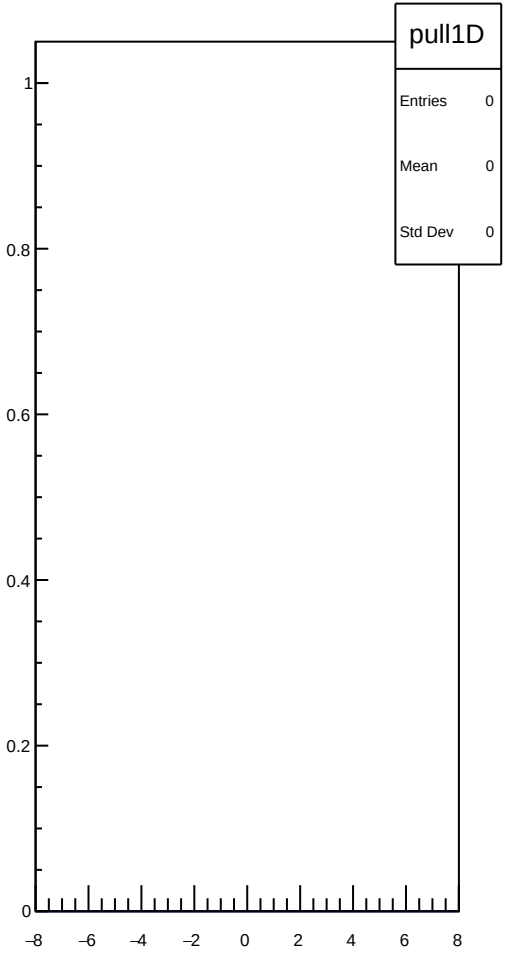

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

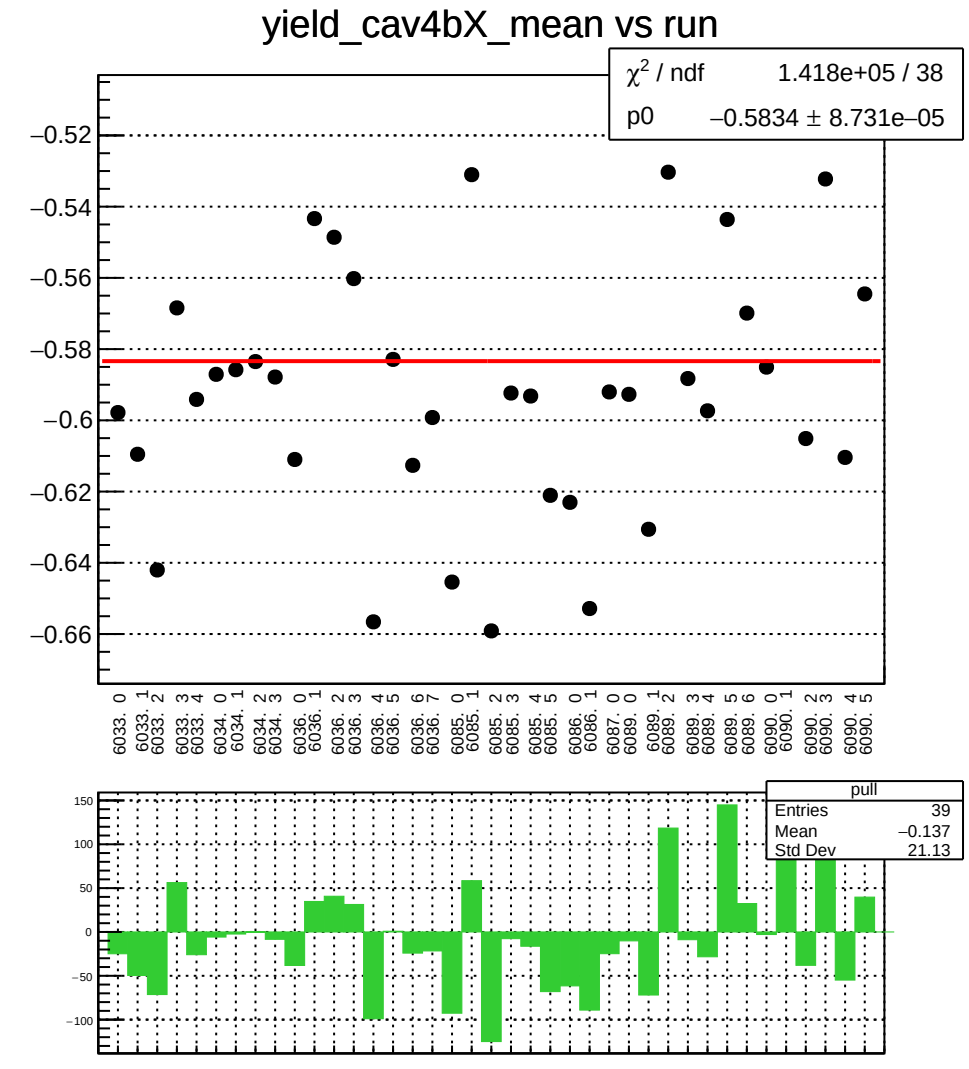

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

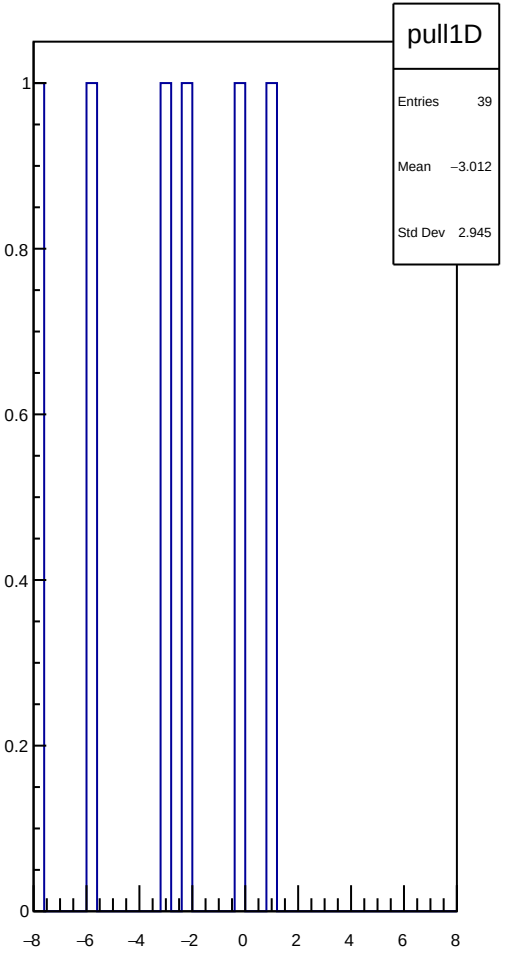

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

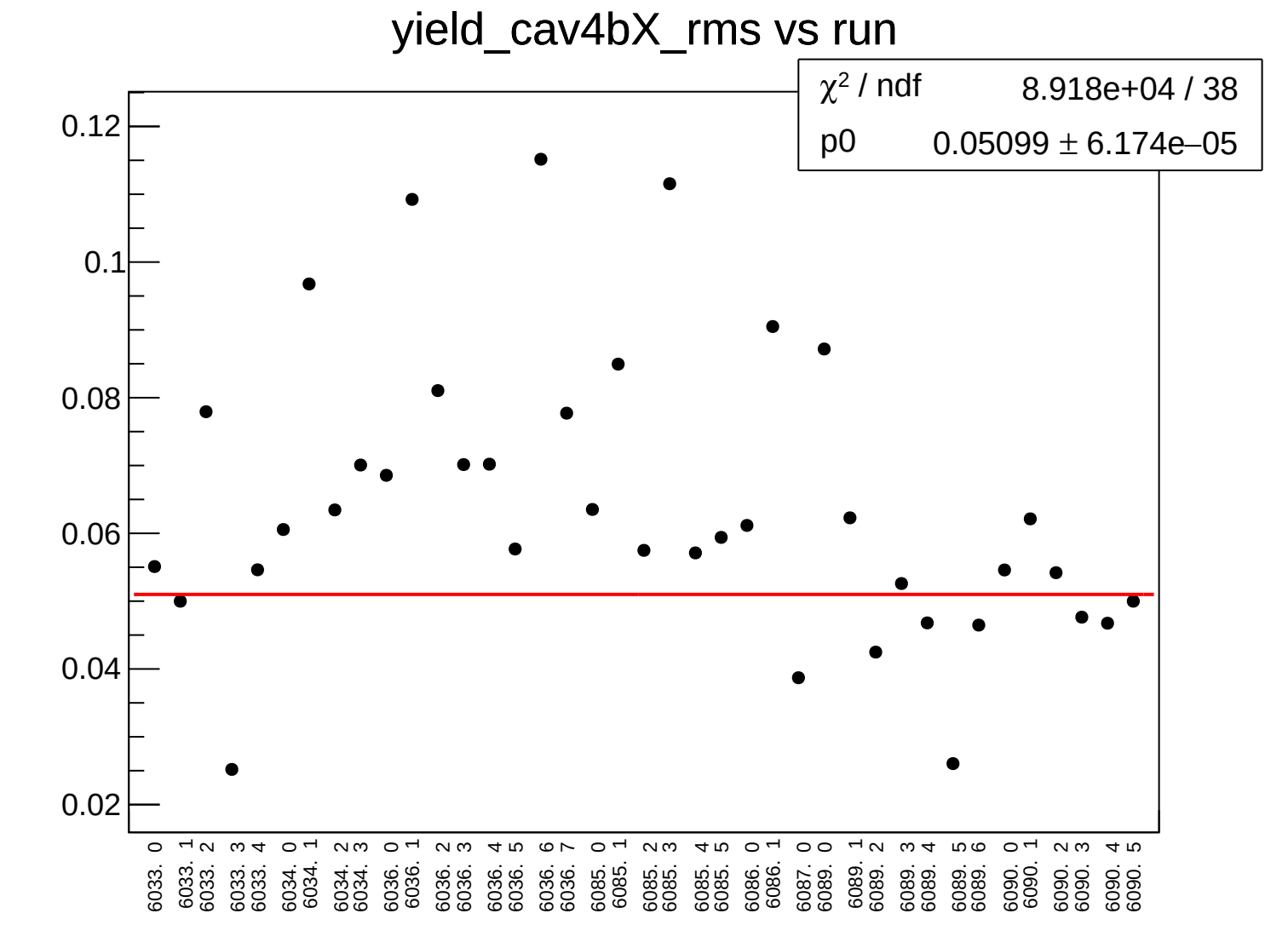

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

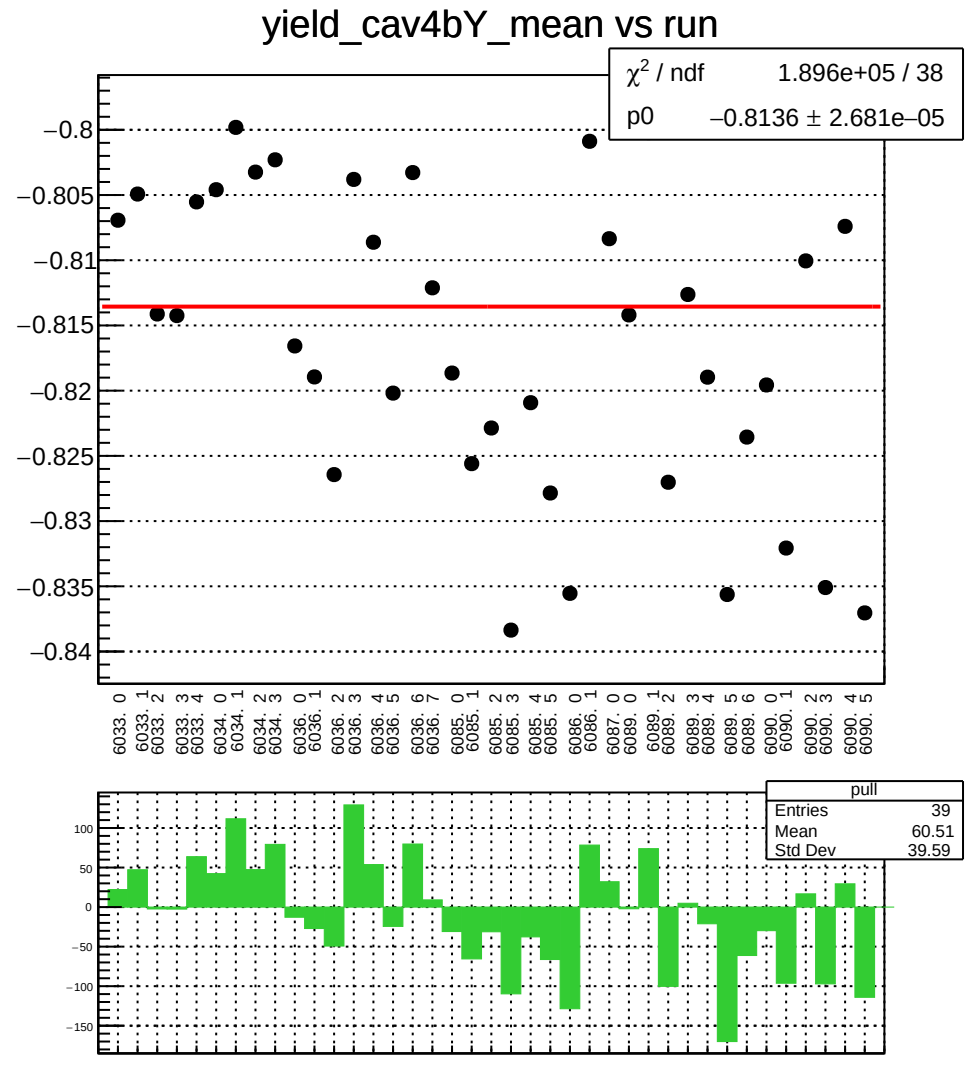

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

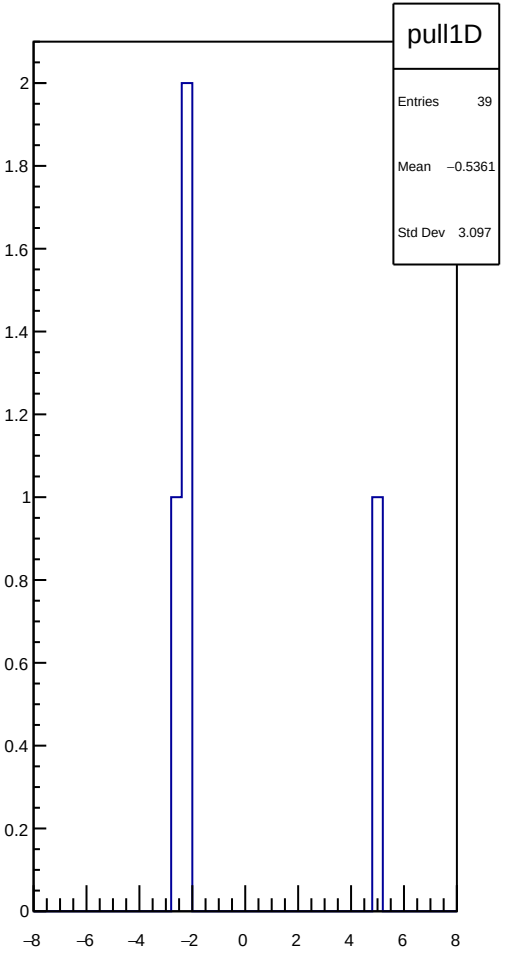

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

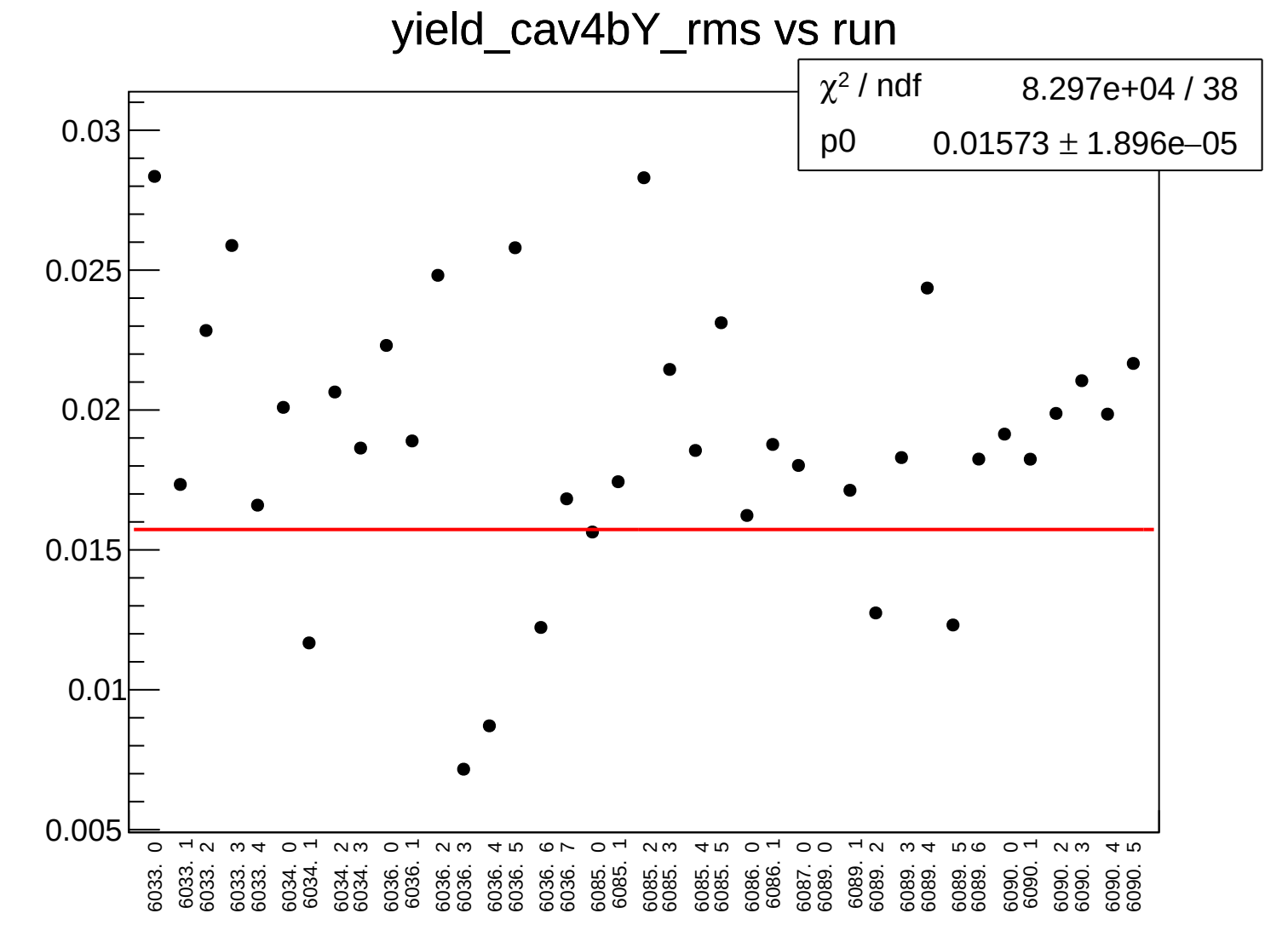

yield_cav4bX_mean vs run
χ² / ndf 1.418e+05 / 38
p0 −0.5834 ± 8.731e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −0.137
Std Dev 21.13
150
100
50
0
−50
−100

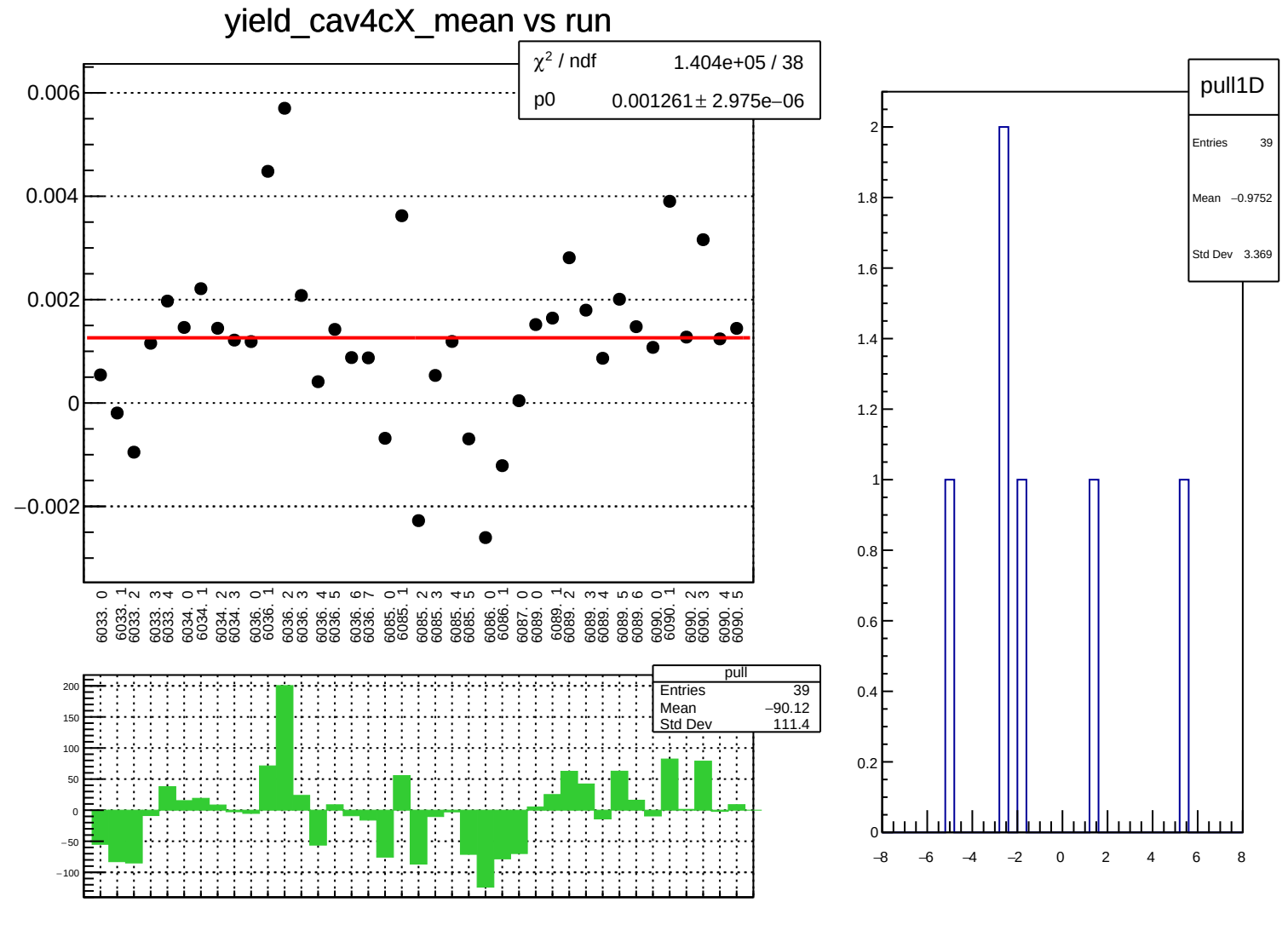

pull1D
Entries 39
Mean −3.012
Std Dev 2.945
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

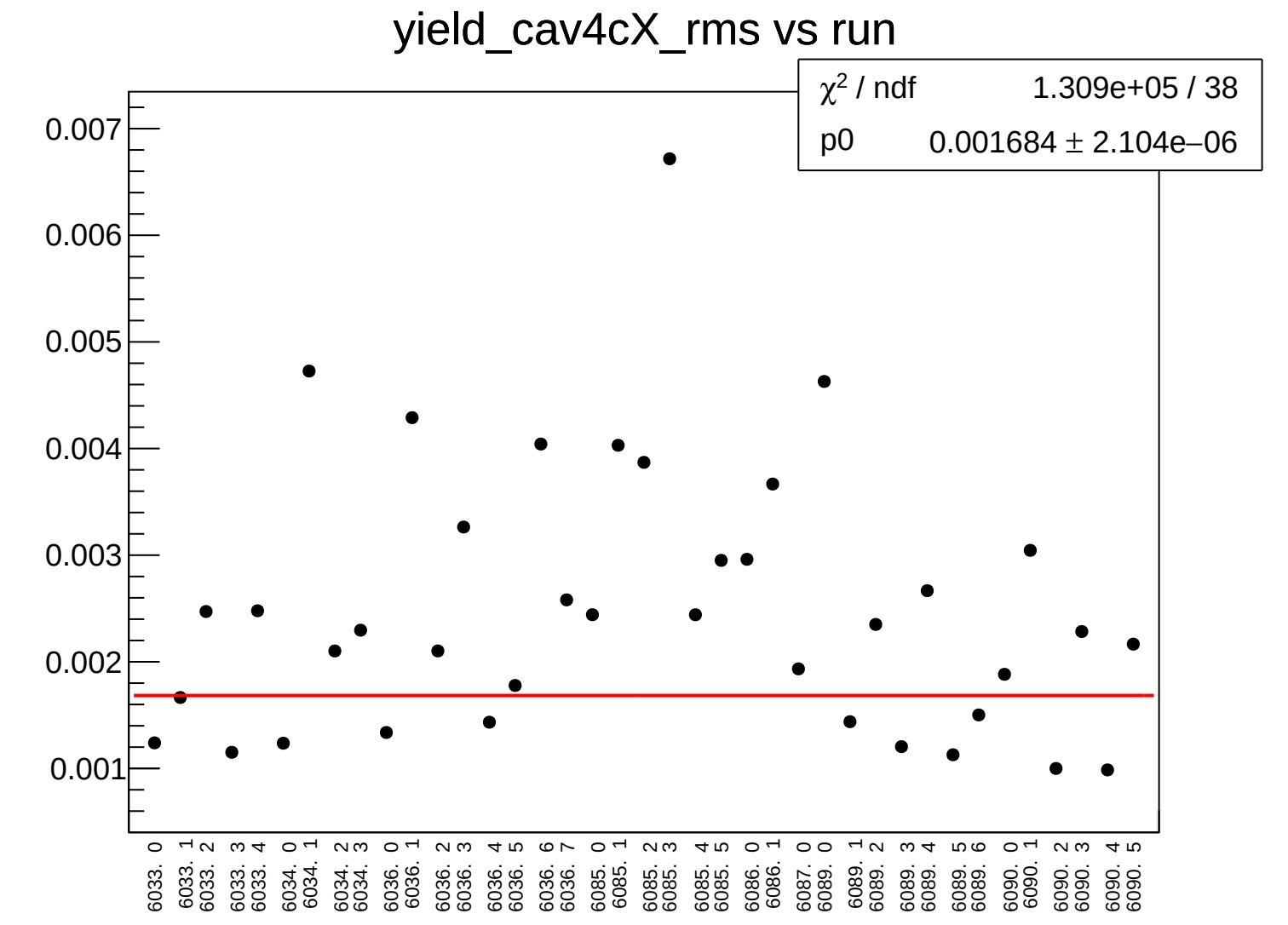

yield_cav4bX_rms vs run
χ² / ndf 8.918e+04 / 38
p0 0.05099 ± 6.174e−05
0.12
0.1
0.08
0.06
0.04
0.02
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

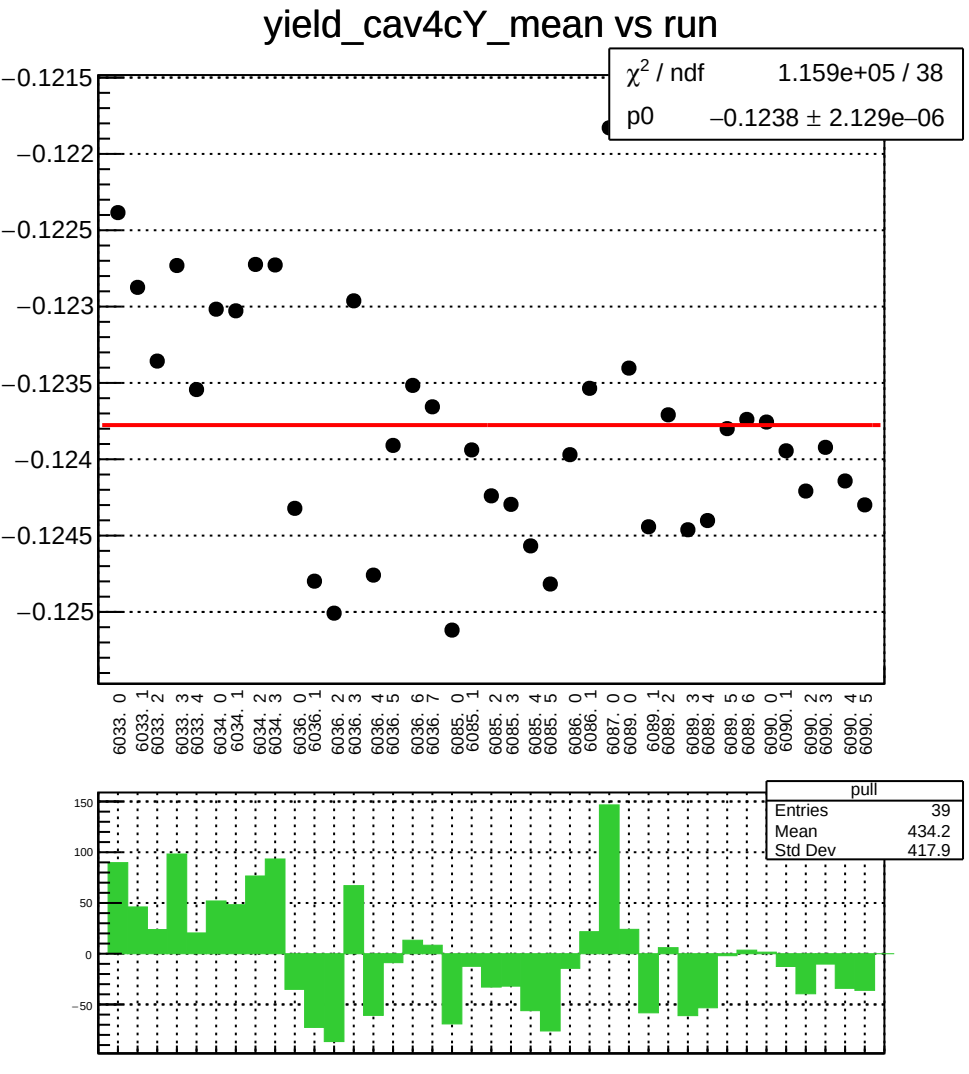

yield_cav4bY_mean vs run
χ² / ndf 1.896e+05 / 38
p0 −0.8136 ± 2.681e−05
−0.8
−0.805
−0.81
−0.815
−0.82
−0.825
−0.83
−0.835
−0.84
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 60.51
Std Dev 39.59
100
50
0
−50
−100
−150

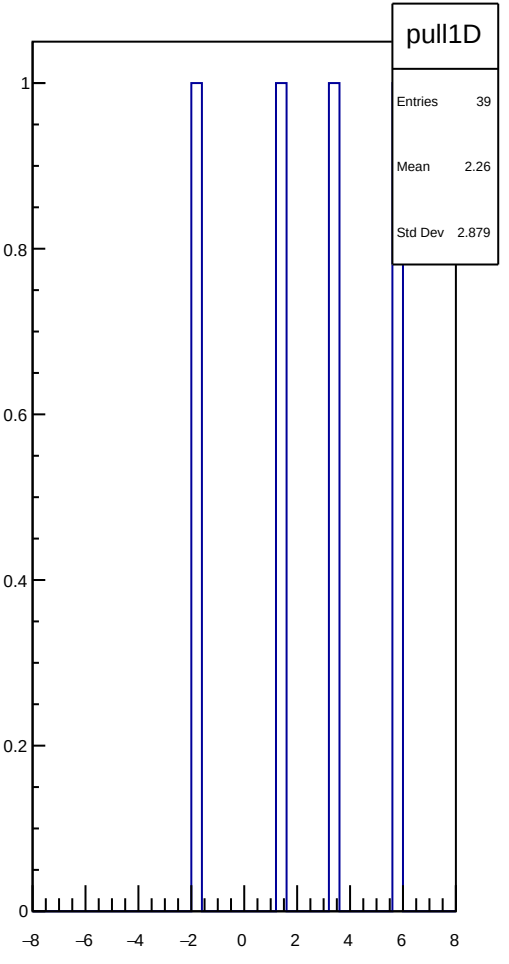

pull1D
Entries 39
Mean −0.5361
Std Dev 3.097
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

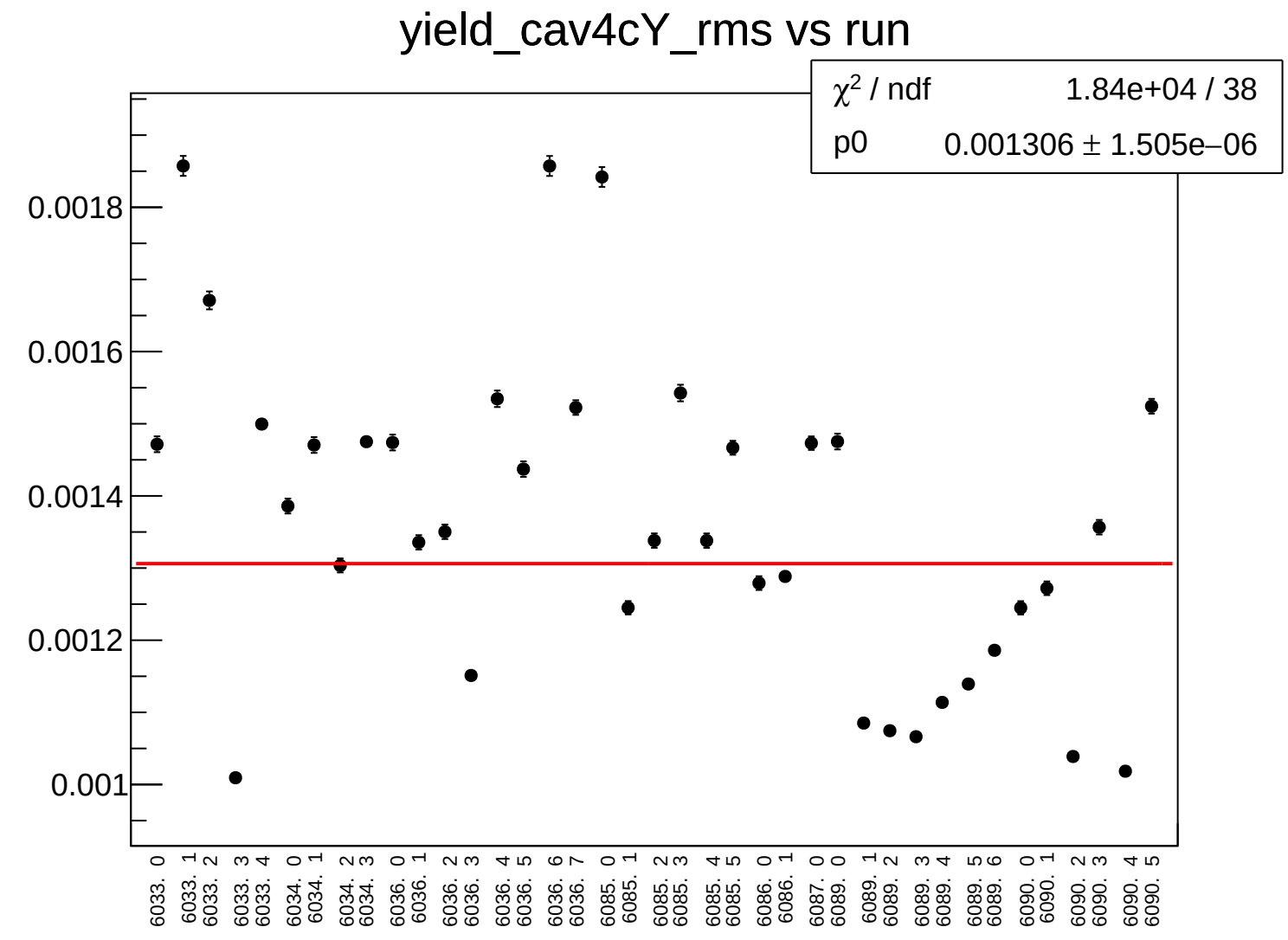

yield_cav4bY_rms vs run
χ² / ndf 8.297e+04 / 38
p0 0.01573 ± 1.896e−05
0.03
0.025
0.02
0.015
0.01
0.005
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

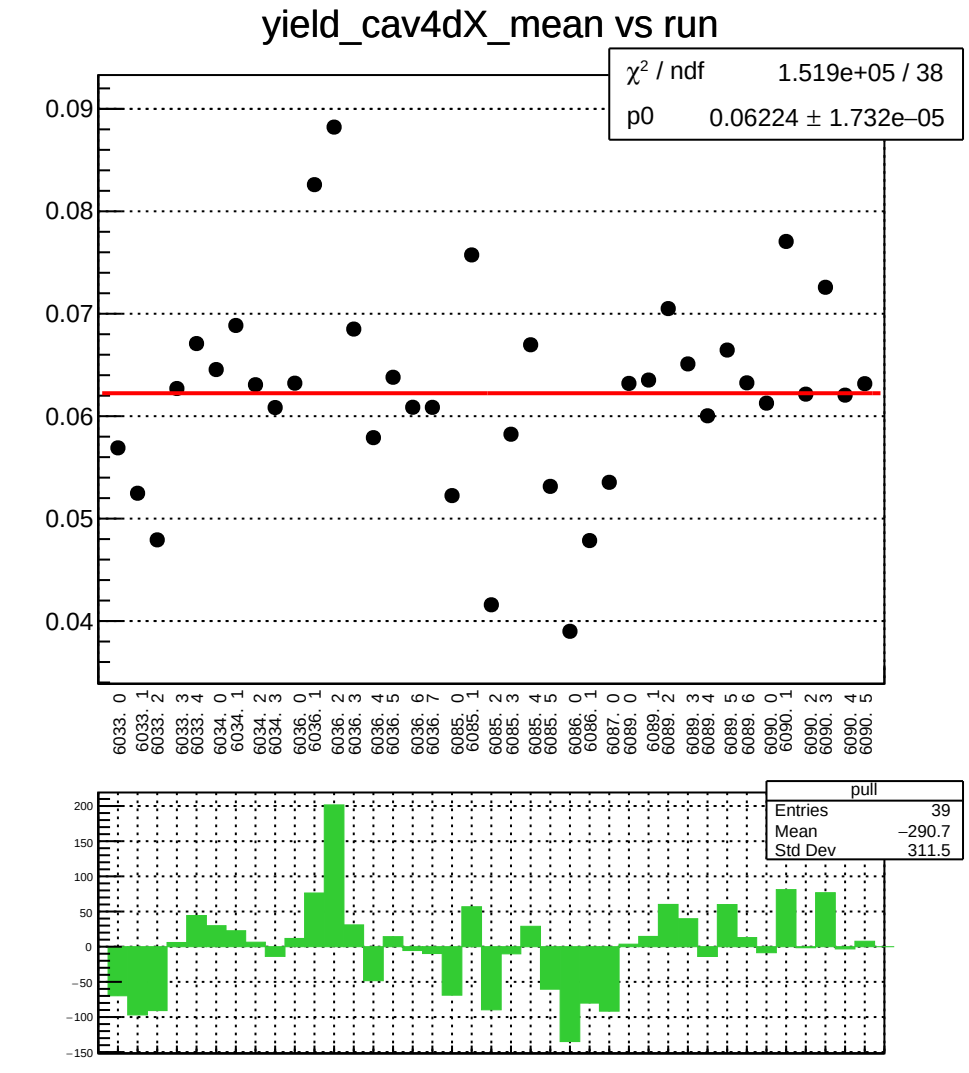

yield_cav4cX_mean vs run
χ² / ndf 1.404e+05 / 38
p0 0.001261 ± 2.975e−06
0.006
0.004
0.002
0
−0.002
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −90.12
Std Dev 111.4
200
150
100
50
0
−50
−100
pull1D
Entries 39
Mean −0.9752
Std Dev 3.369
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

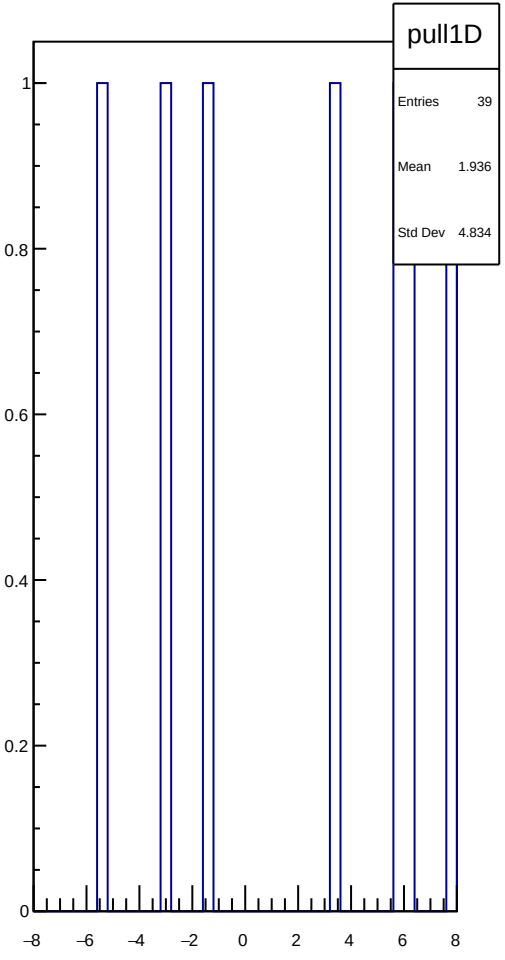

yield_cav4cX_rms vs run
χ² / ndf 1.309e+05 / 38
p0 0.001684 ± 2.104e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

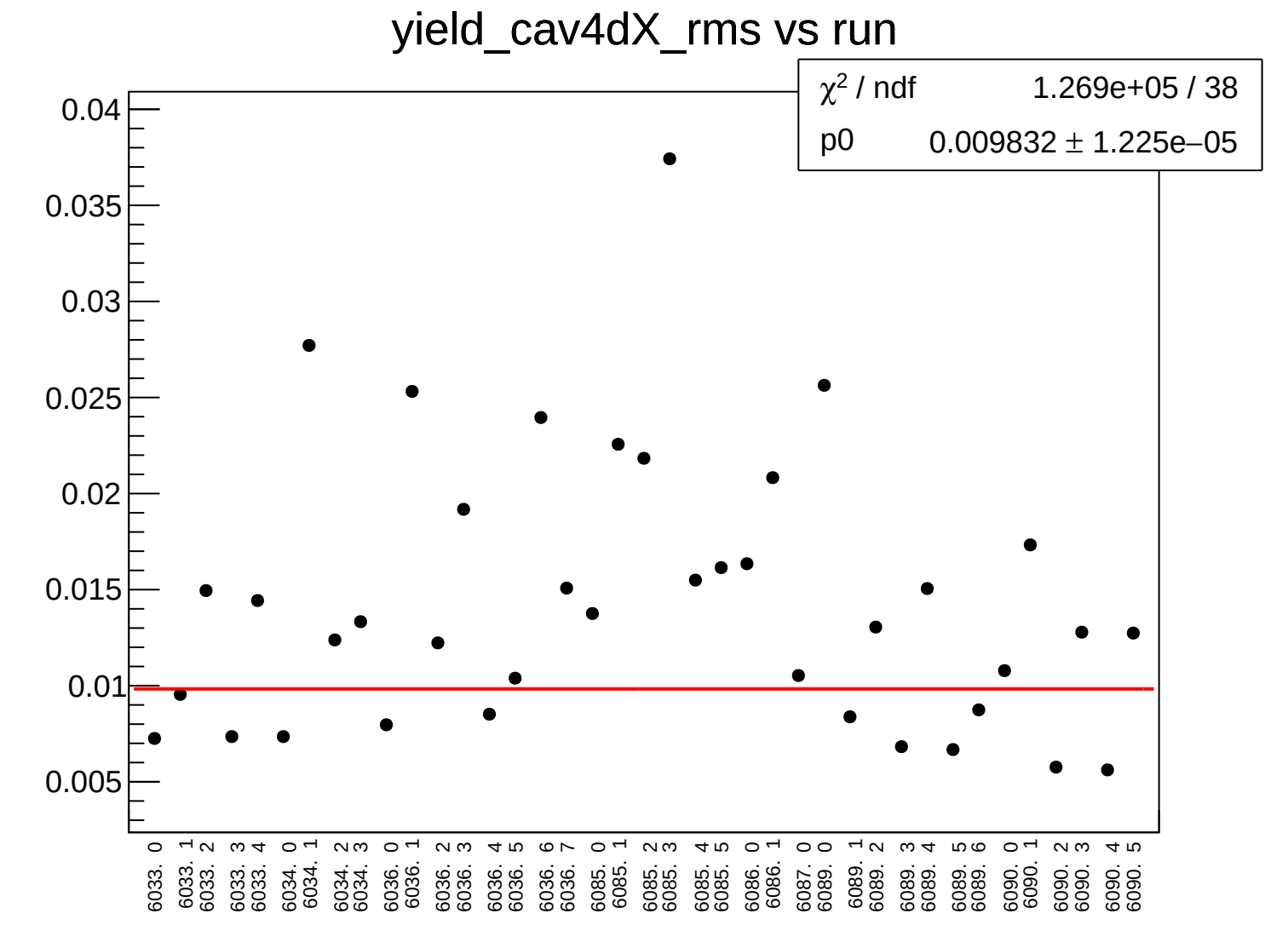

yield_cav4cY_mean vs run
χ² / ndf 1.159e+05 / 38
p0 −0.1238 ± 2.129e−06
−0.1215
−0.122
−0.1225
−0.123
−0.1235
−0.124
−0.1245
−0.125
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 434.2
Std Dev 417.9
150
100
50
0
−50

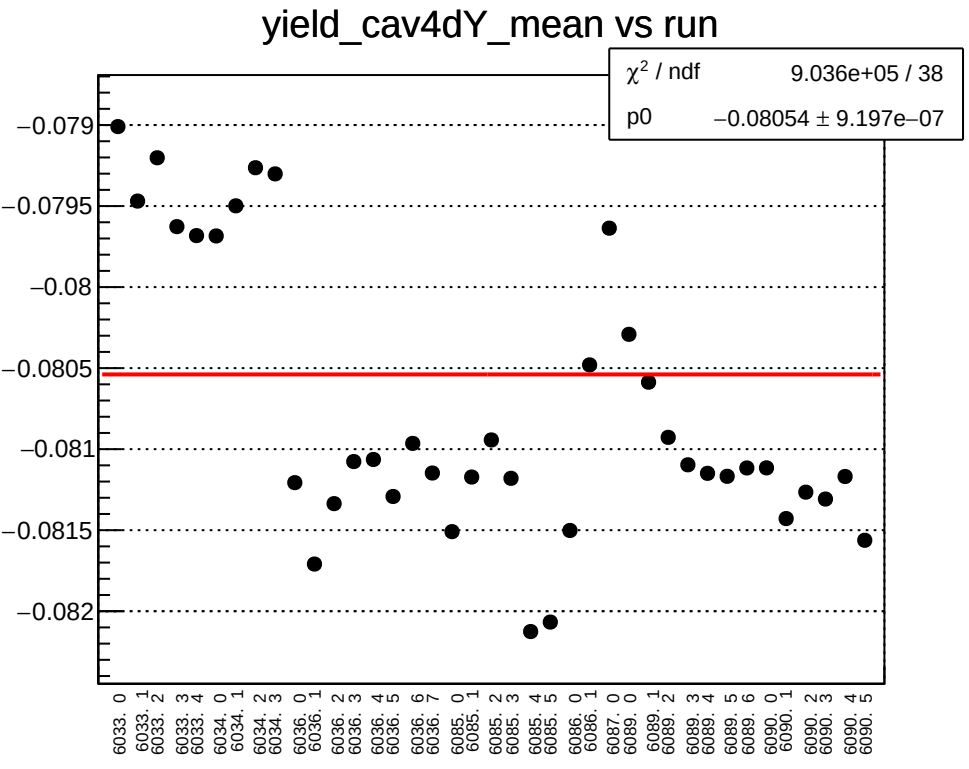

pull1D
Entries 39
Mean 2.26
Std Dev 2.879
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

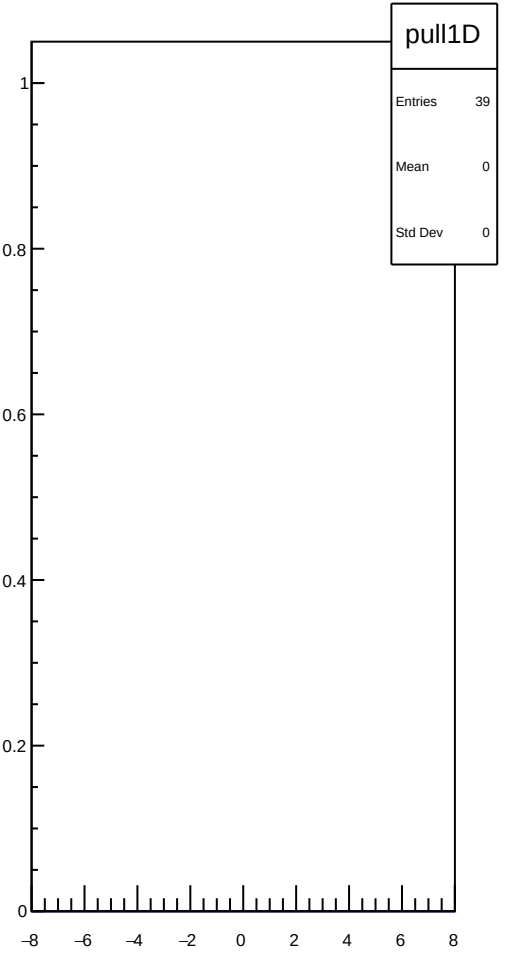

yield_cav4cY_rms vs run
χ² / ndf 1.84e+04 / 38
p0 0.001306 ± 1.505e−06
0.0018
0.0016
0.0014
0.0012
0.001
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

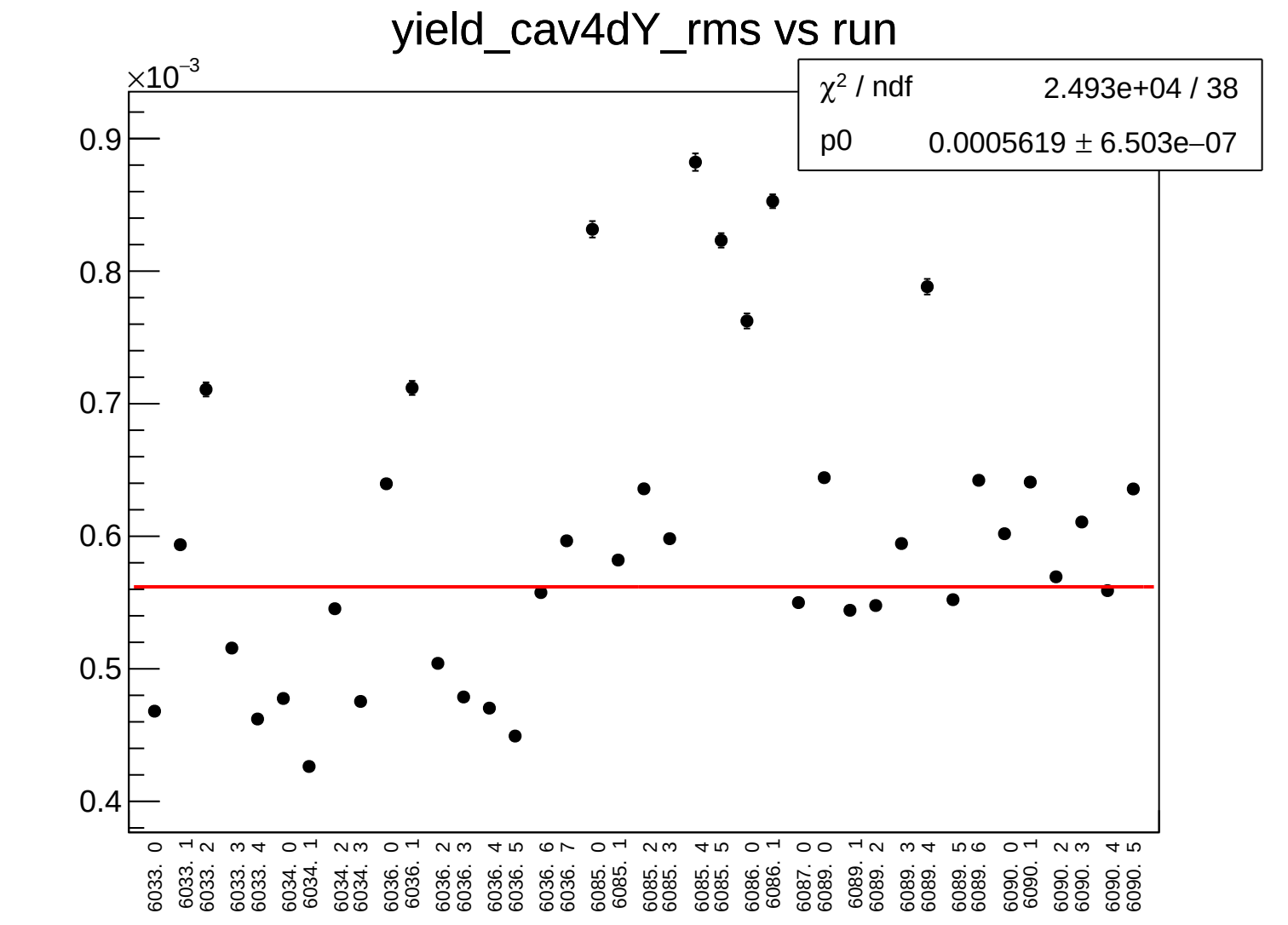

yield_cav4dX_mean vs run
χ² / ndf 1.519e+05 / 38
p0 0.06224 ± 1.732e−05
0.09
0.08
0.07
0.06
0.05
0.04
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −290.7
Std Dev 311.5
200
150
100
50
0
−50
−100
−150

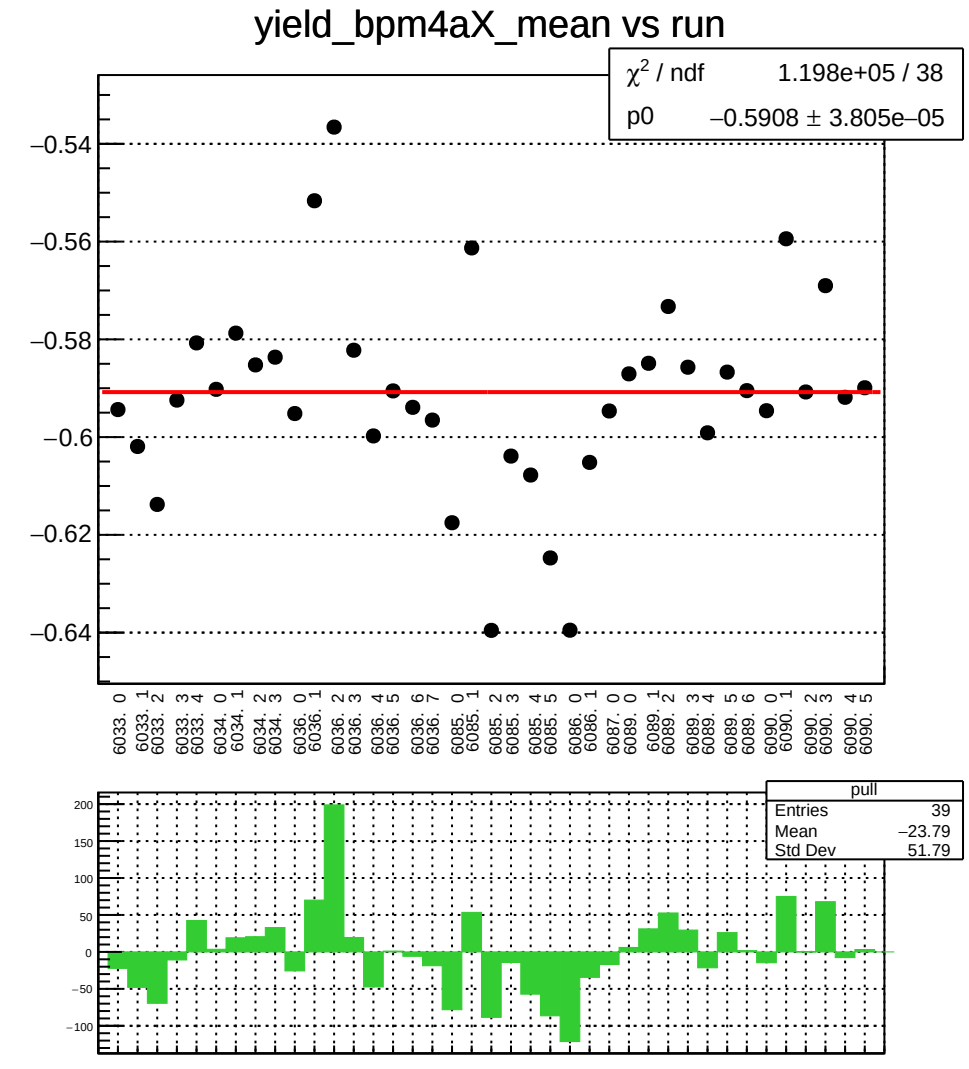

pull1D
Entries 39
Mean 1.936
Std Dev 4.834
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

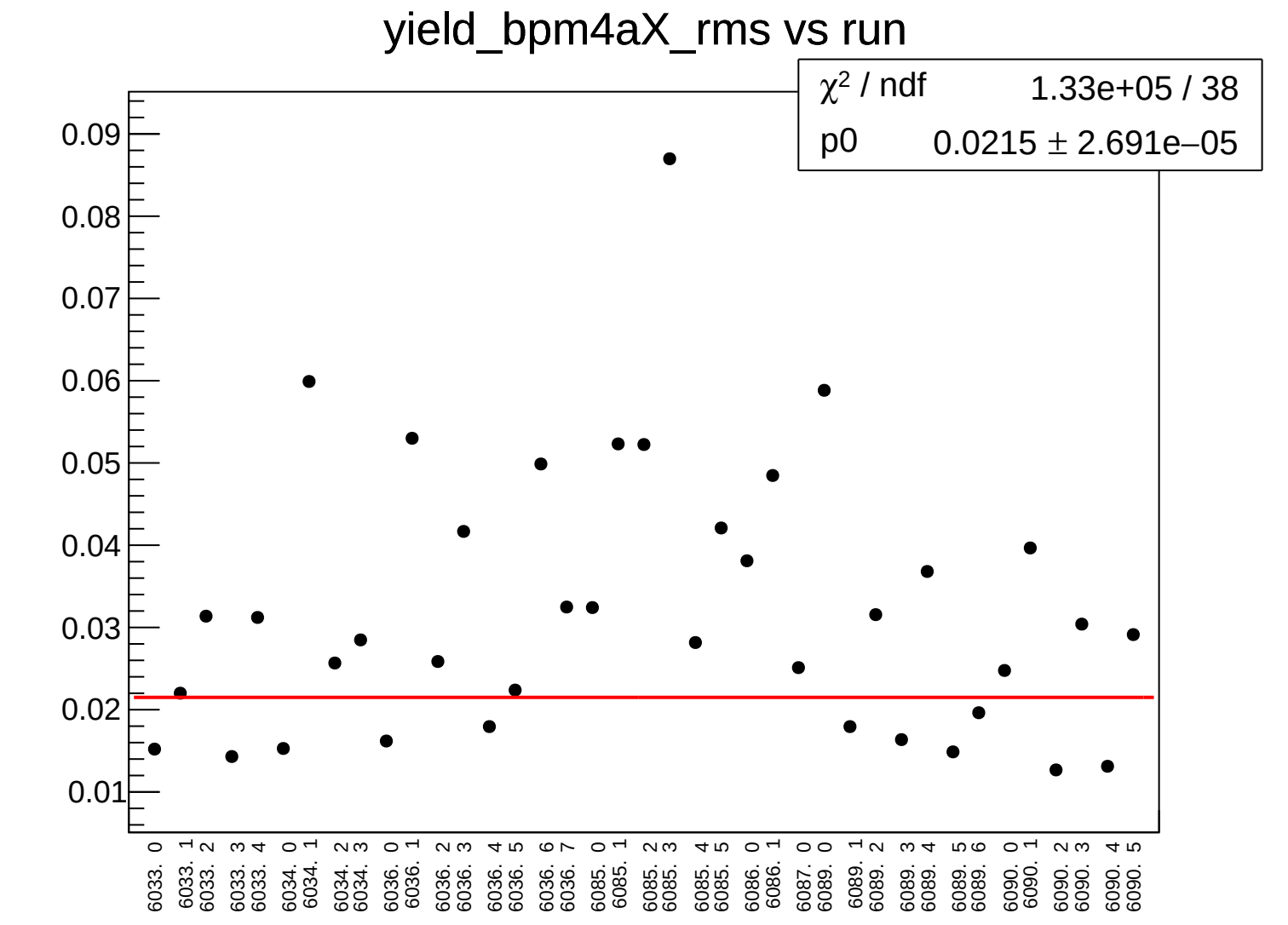

yield_cav4dX_rms vs run
χ² / ndf 1.269e+05 / 38
p0 0.009832 ± 1.225e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

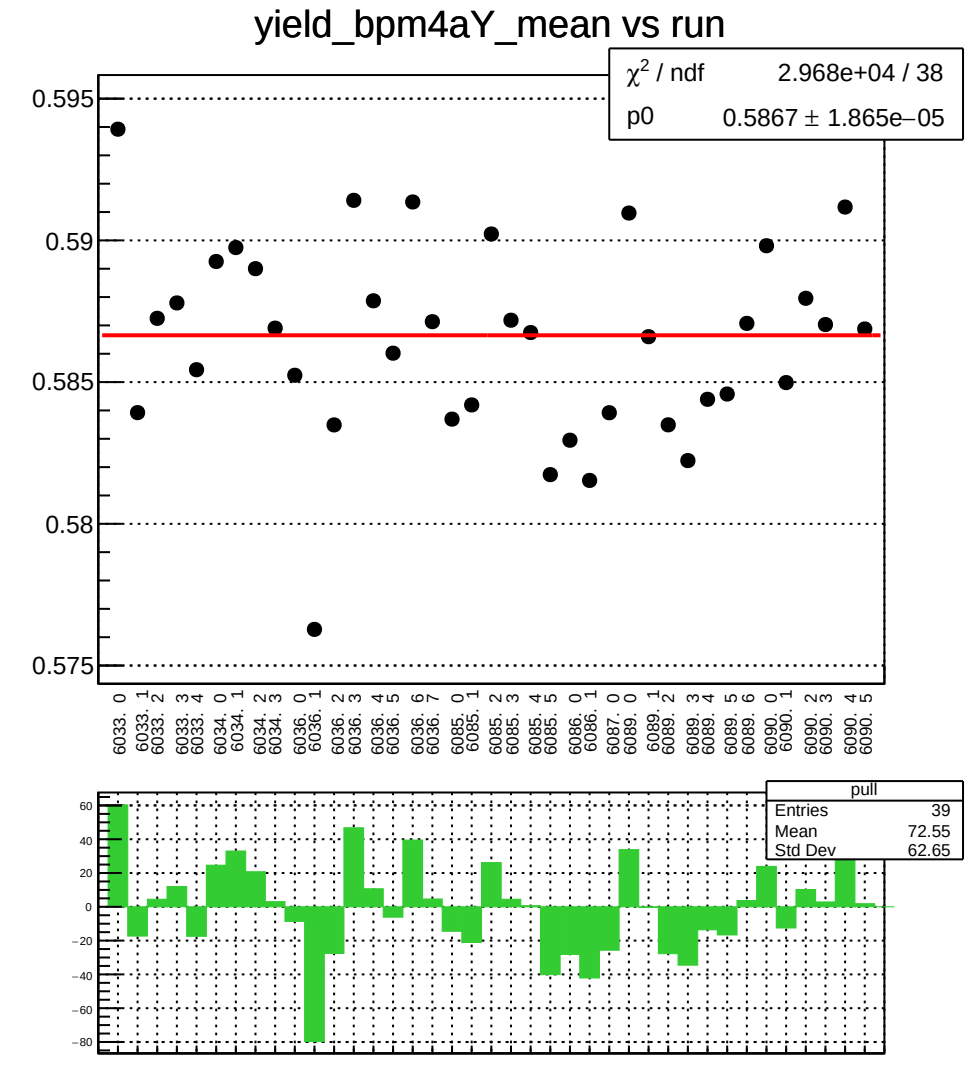

yield_cav4dY_mean vs run
χ² / ndf 9.036e+05 / 38
p0 −0.08054 ± 9.197e−07
−0.079
−0.0795
−0.08
−0.0805
−0.081
−0.0815
−0.082
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 74.41
Std Dev 56.76
300
200
100
0
−100
−200

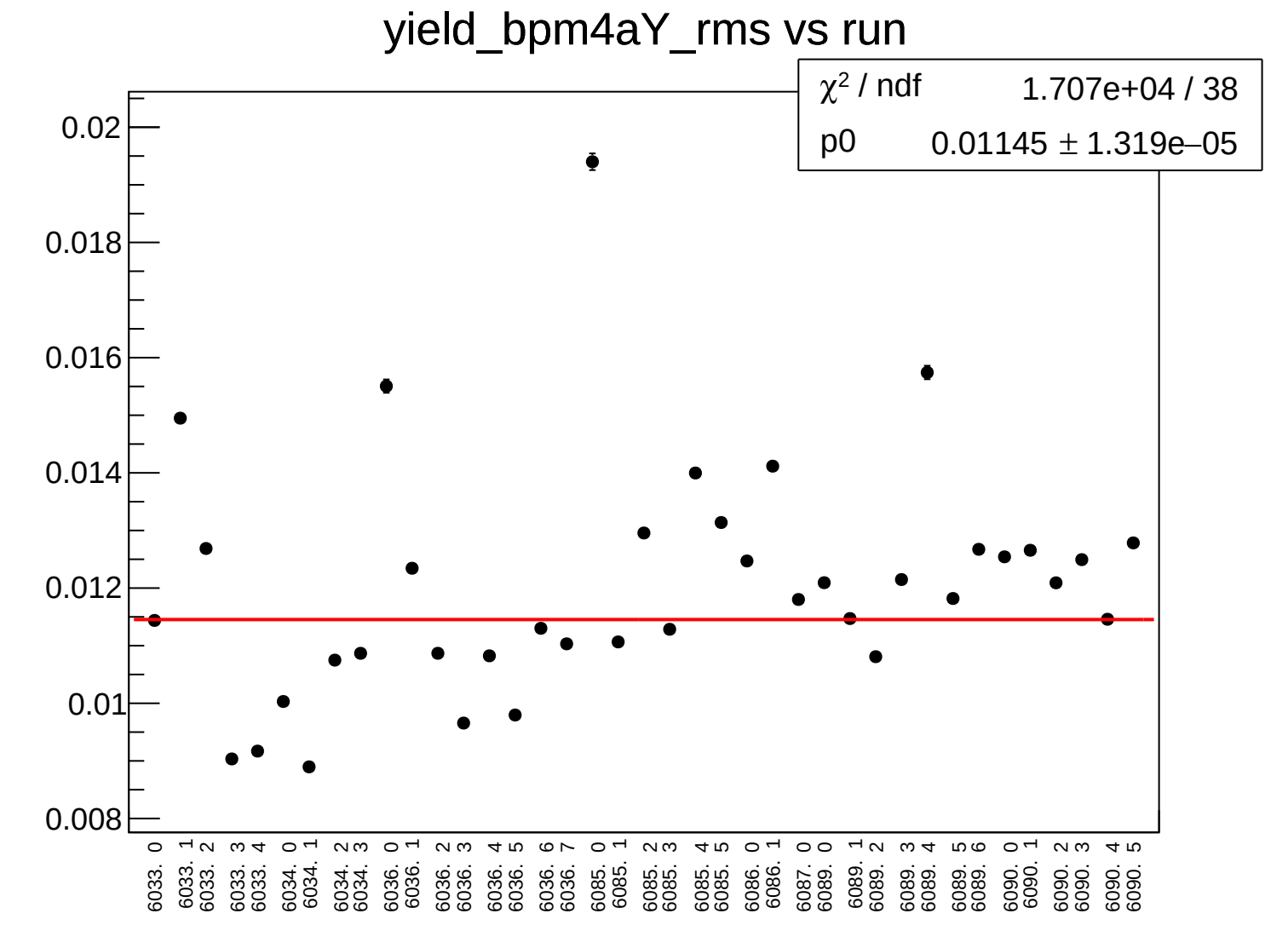

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

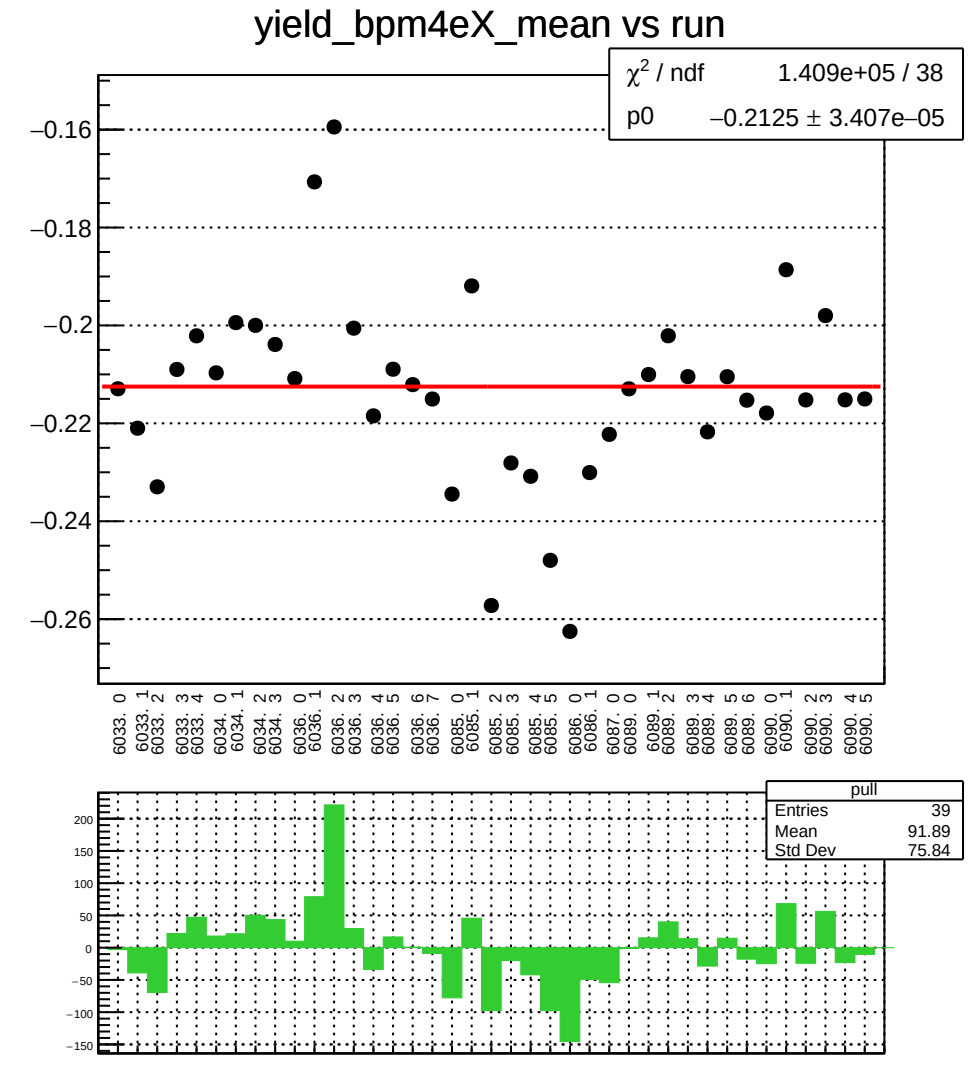

yield_cav4dY_rms vs run
×10⁻³
χ² / ndf 2.493e+04 / 38
p0 0.0005619 ± 6.503e−07
0.9
0.8
0.7
0.6
0.5
0.4
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

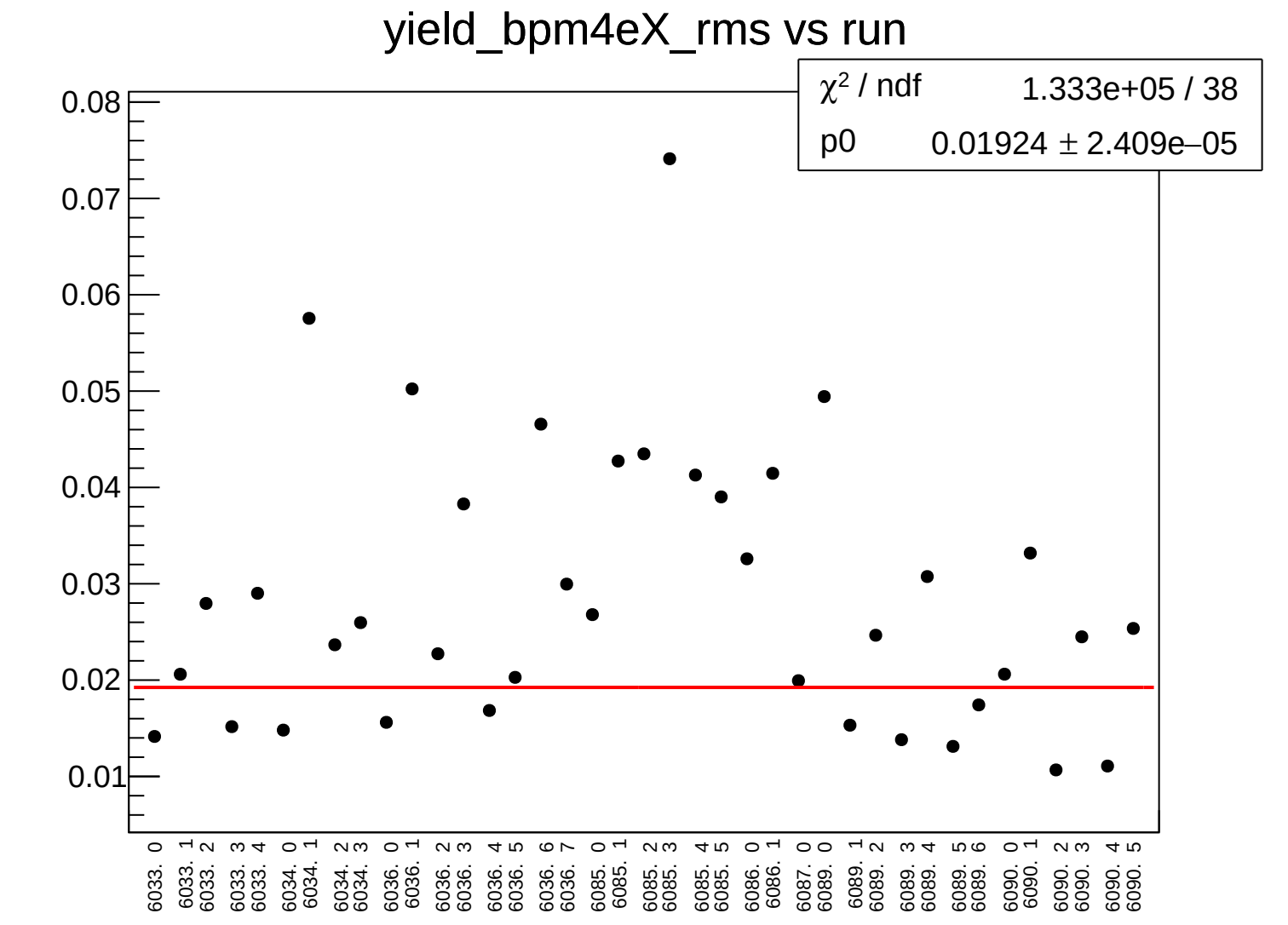

yield_bpm4aX_mean vs run
χ² / ndf 1.198e+05 / 38
p0 −0.5908 ± 3.805e−05
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −23.79
Std Dev 51.79
200
150
100
50
0
−50
−100
pull1D
Entries 39
Mean 0.2676
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

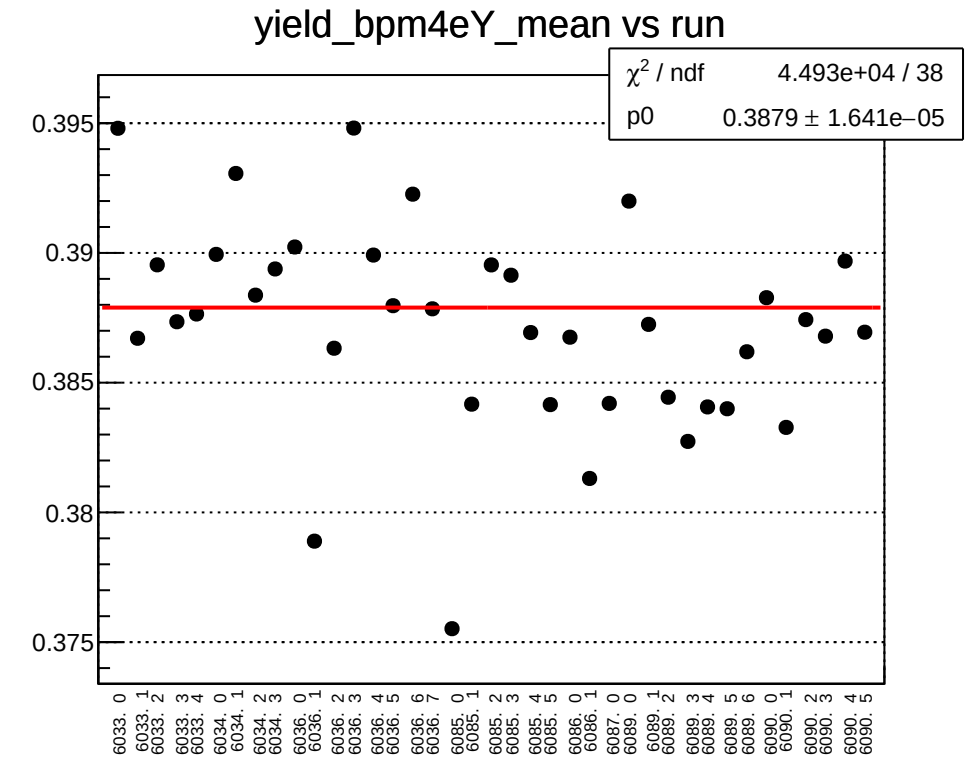

yield_bpm4aX_rms vs run
χ² / ndf 1.33e+05 / 38
p0 0.0215 ± 2.691e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

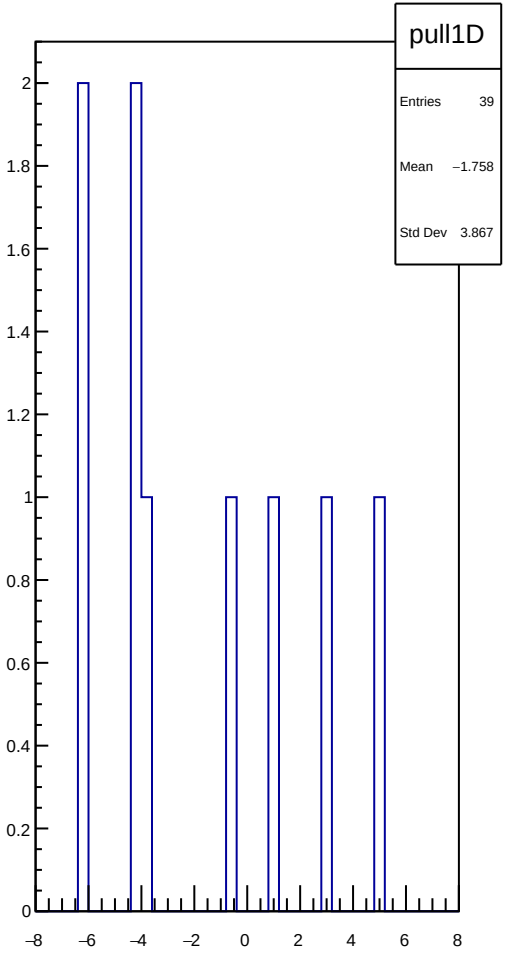

yield_bpm4aY_mean vs run
χ² / ndf 2.968e+04 / 38
p0 0.5867 ± 1.865e−05
0.595
0.59
0.585
0.58
0.575
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 72.55
Std Dev 62.65
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 39
Mean 1.915
Std Dev 3.119
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

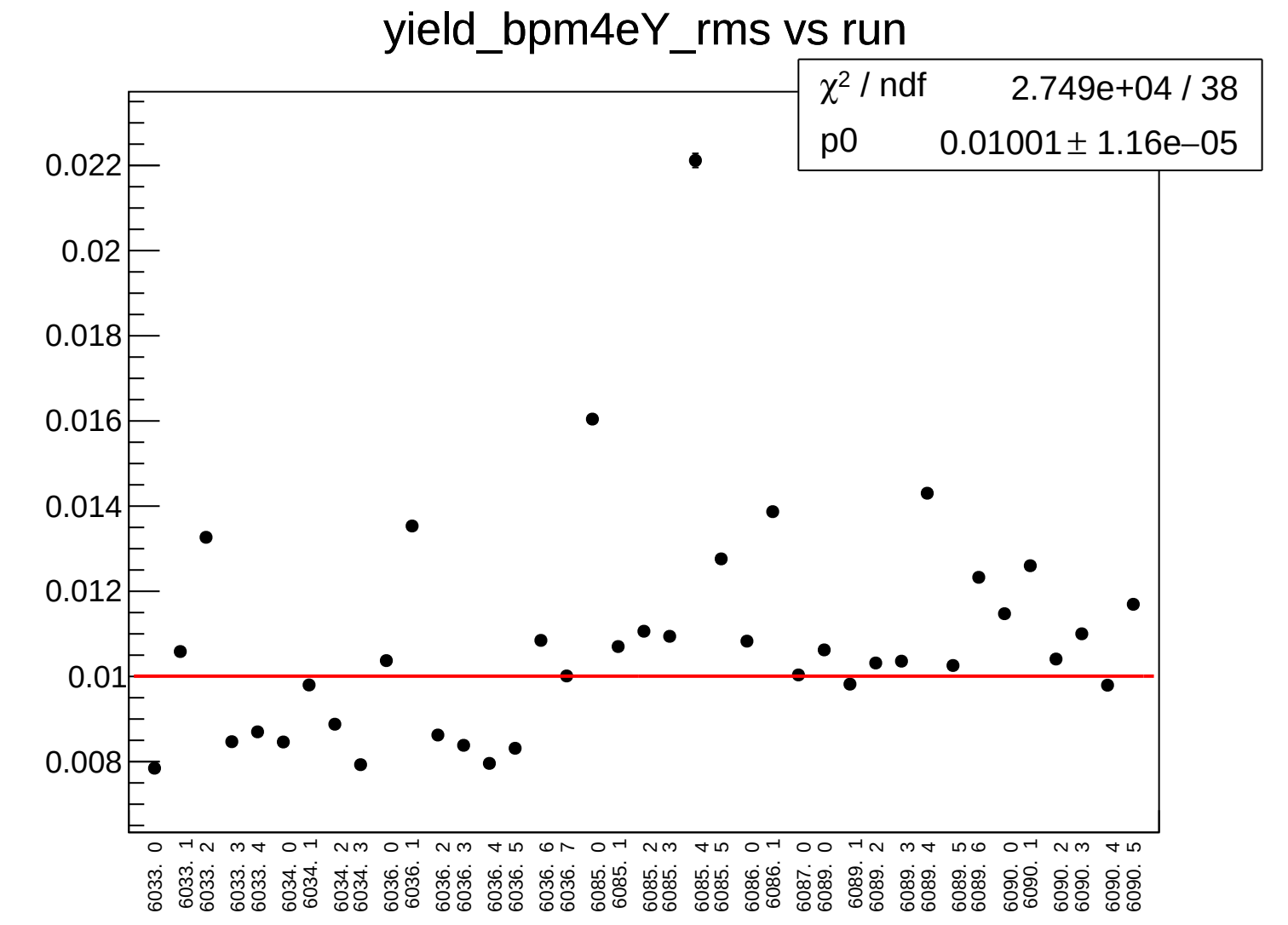

yield_bpm4aY_rms vs run
χ² / ndf 1.707e+04 / 38
p0 0.01145 ± 1.319e–05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

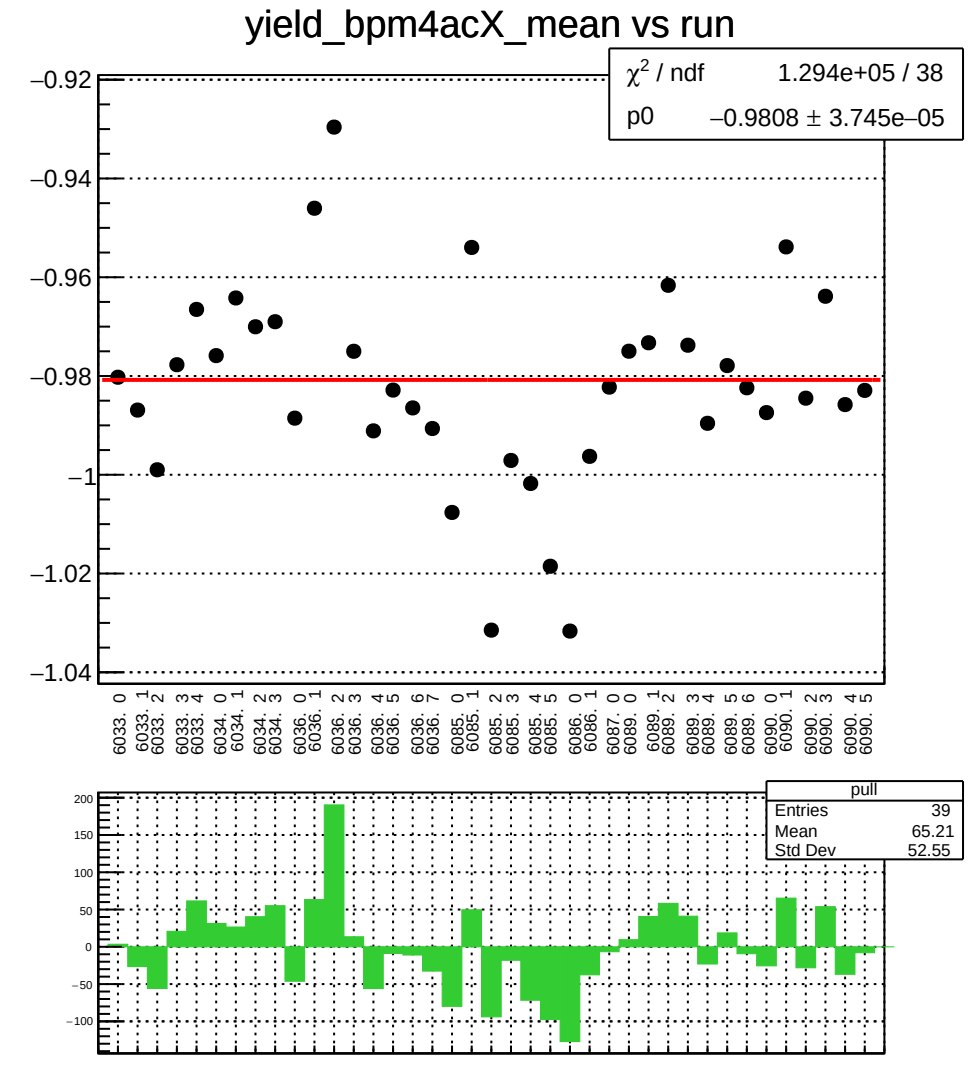

yield_bpm4eX_mean vs run
χ² / ndf 1.409e+05 / 38
p0 −0.2125 ± 3.407e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 91.89
Std Dev 75.84
200
150
100
50
0
−50
−100
−150
pull1D
Entries 39
Mean −1.01
Std Dev 1.554
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

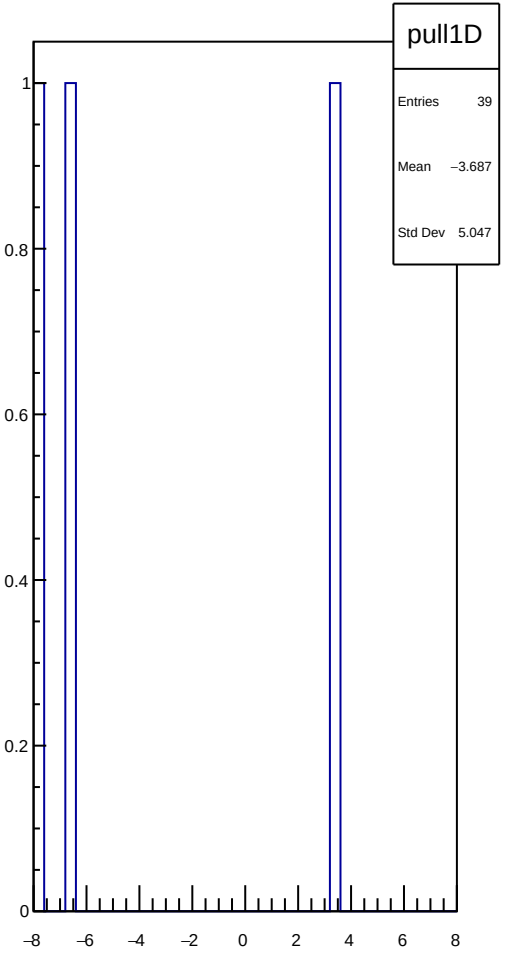

yield_bpm4eX_rms vs run
χ² / ndf 1.333e+05 / 38
p0 0.01924 ± 2.409e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

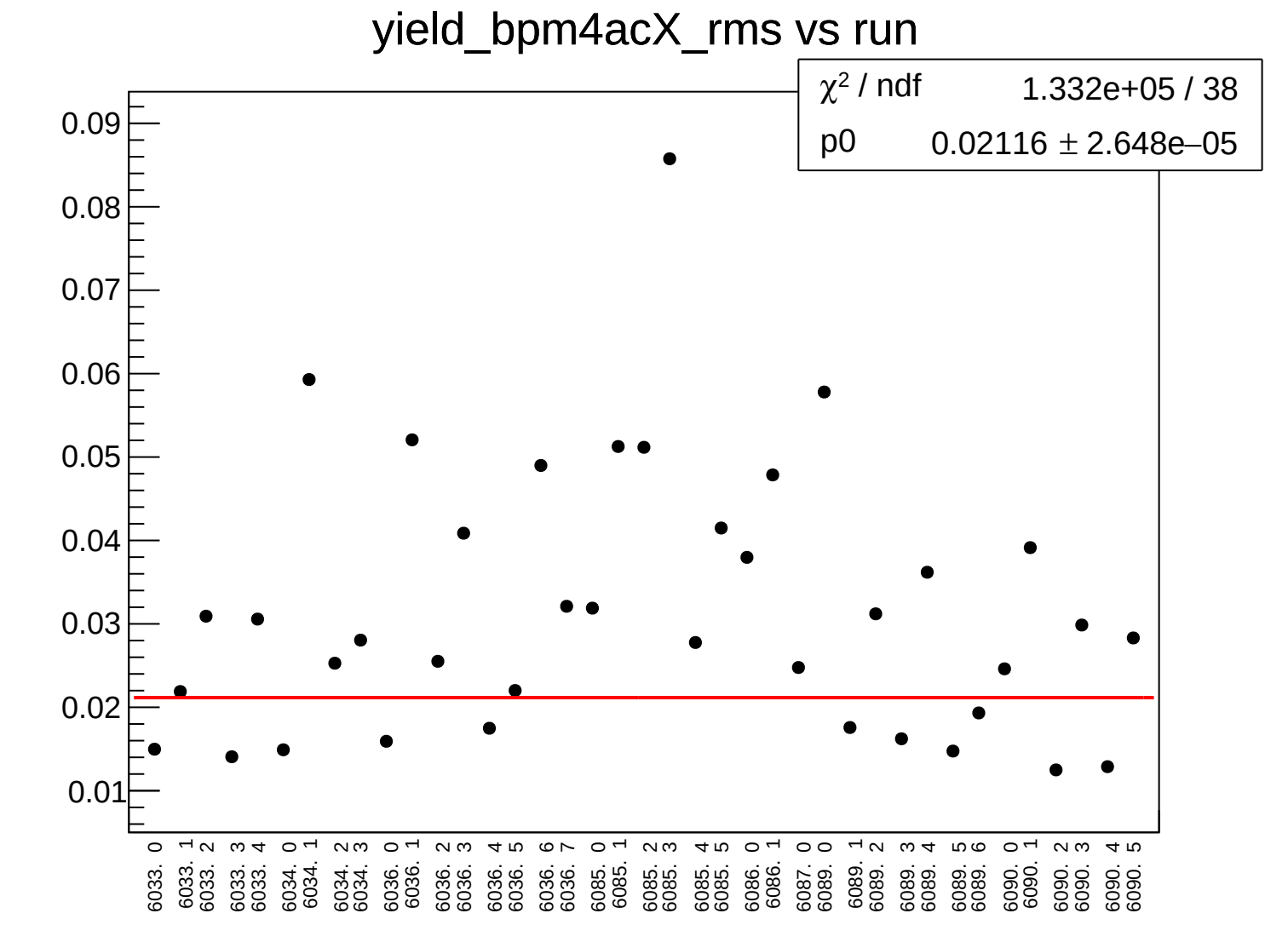

yield_bpm4eY_mean vs run
χ² / ndf 4.493e+04 / 38
p0 0.3879 ± 1.641e−05
0.395
0.39
0.385
0.38
0.375
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 64.31
Std Dev 46.29
80
60
40
20
0
−20
−40
−60
−80

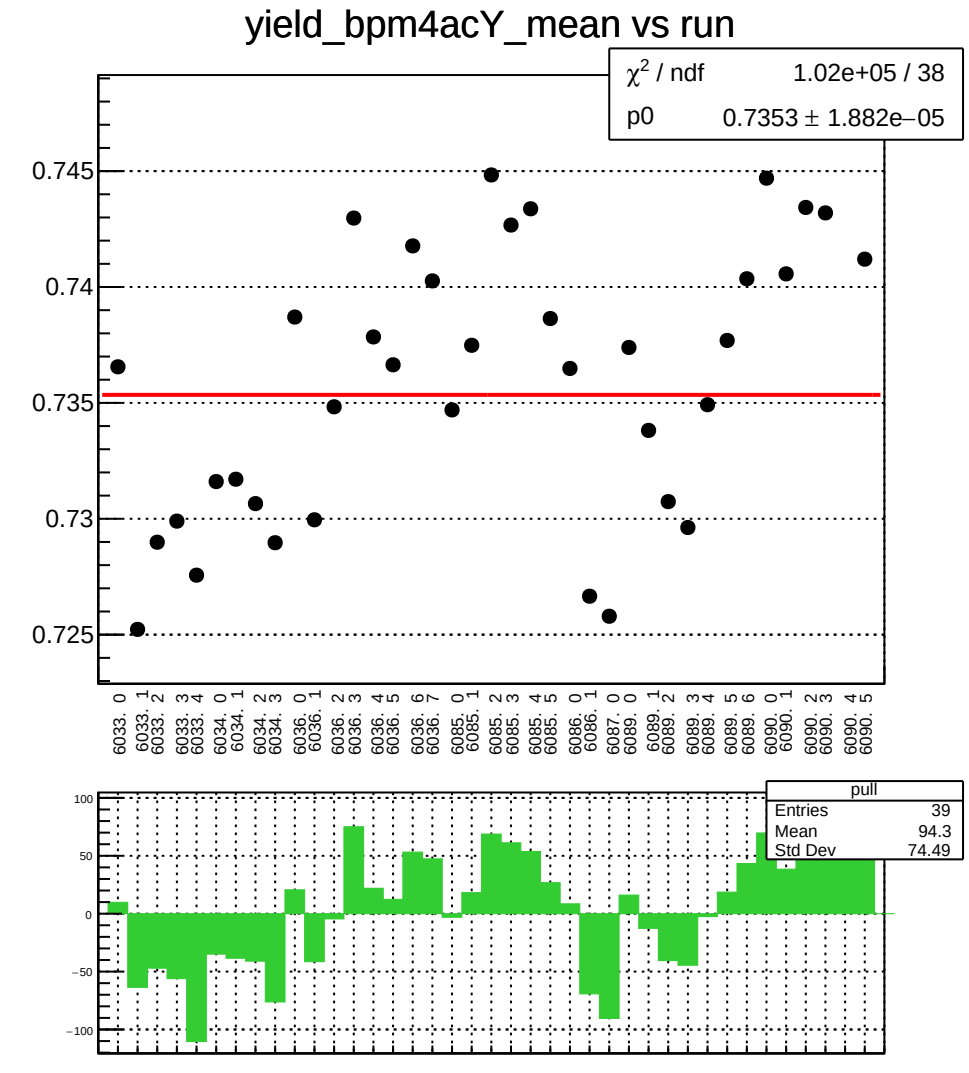

pull1D
Entries 39
Mean −1.758
Std Dev 3.867
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

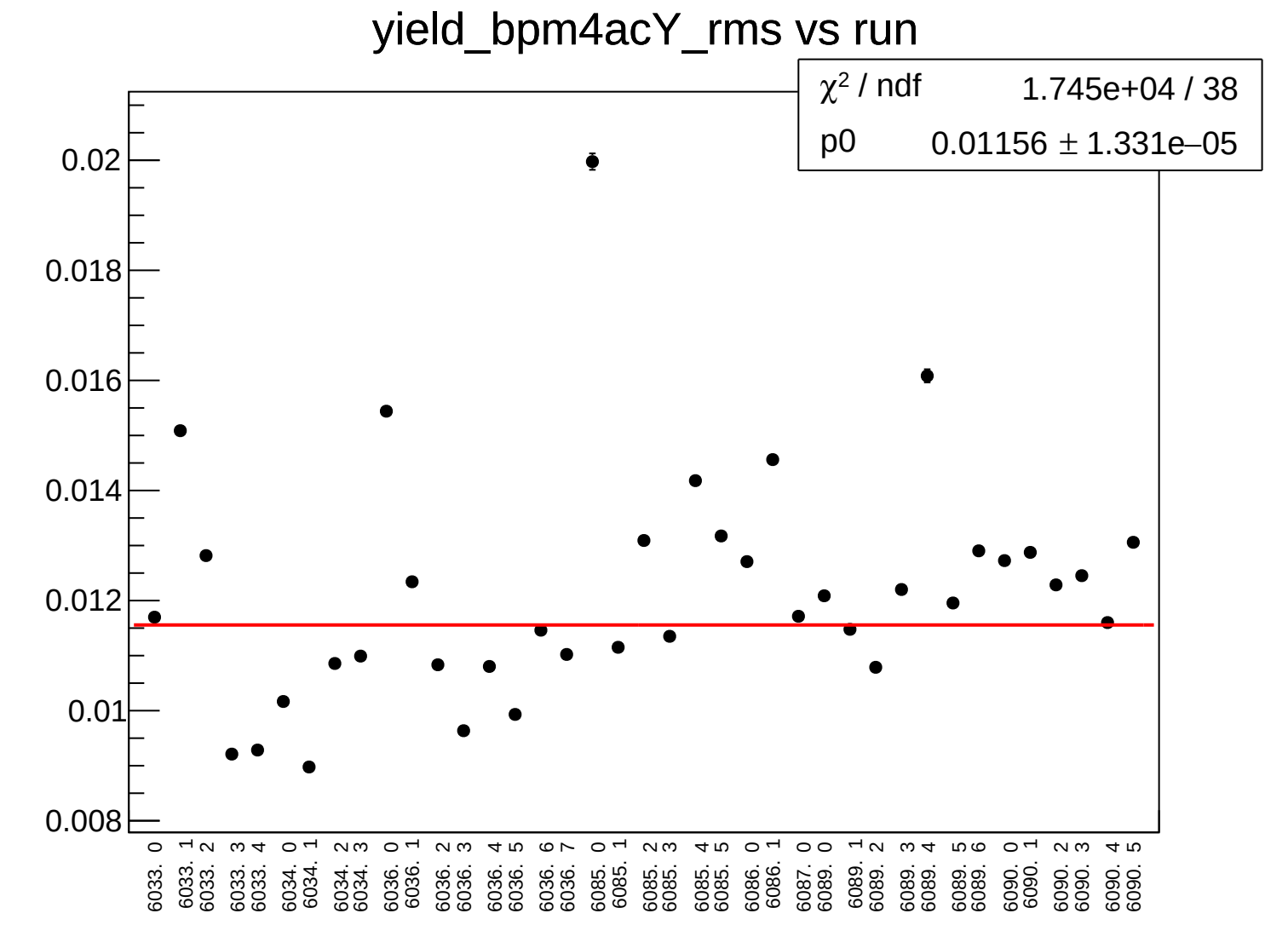

yield_bpm4eY_rms vs run
χ² / ndf 2.749e+04 / 38
p0 0.01001 ± 1.16e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

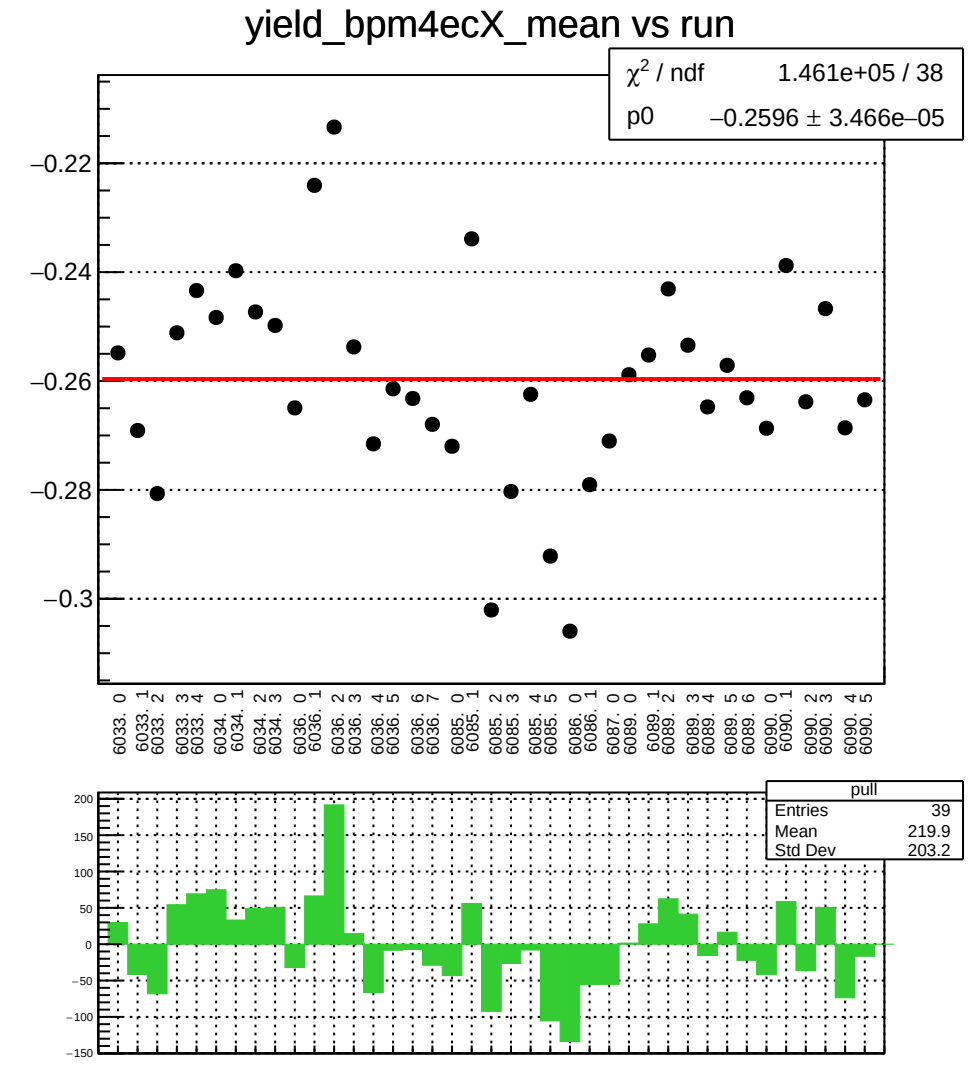

yield_bpm4acX_mean vs run
χ² / ndf 1.294e+05 / 38
p0 −0.9808 ± 3.745e−05
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 65.21
Std Dev 52.55
200
150
100
50
0
−50
−100

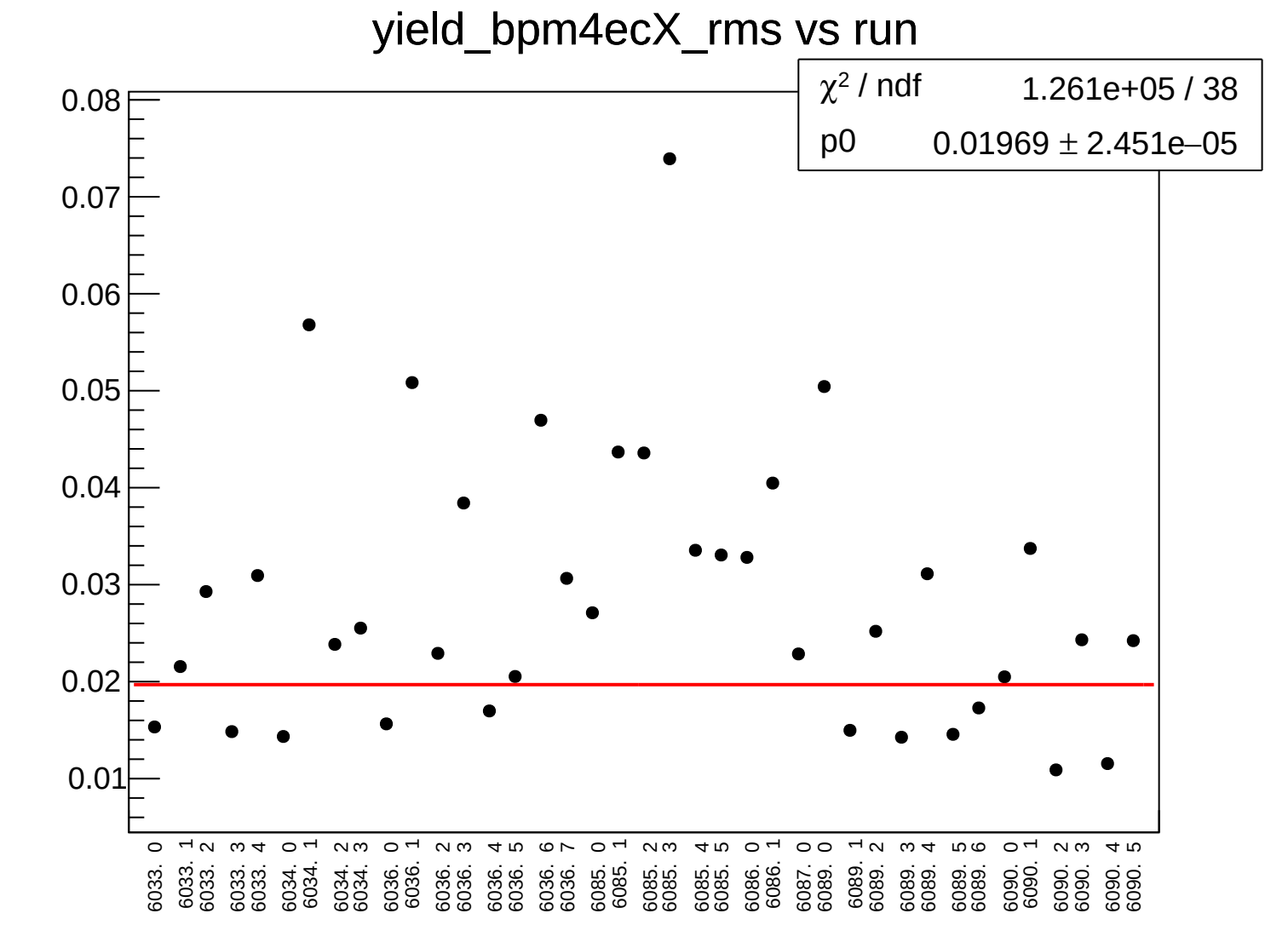

pull1D
Entries 39
Mean −3.687
Std Dev 5.047
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

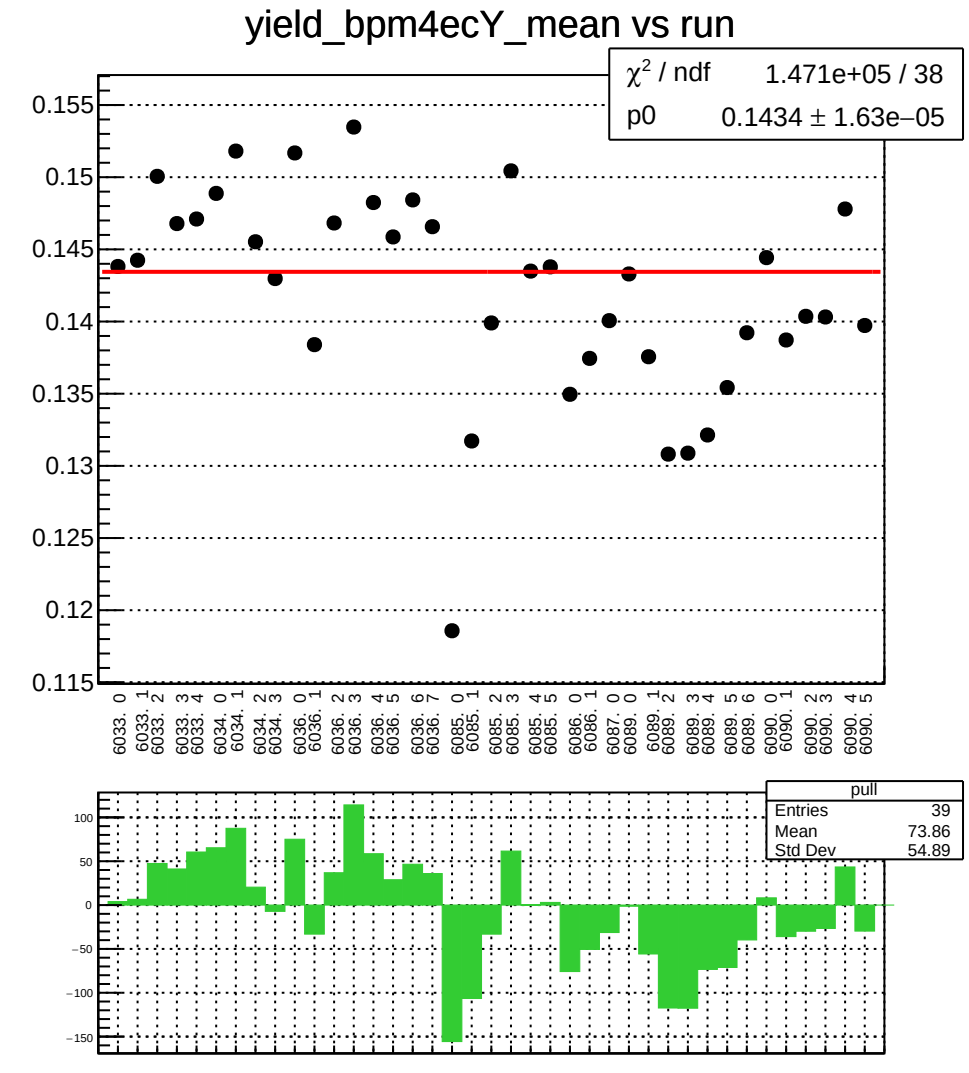

yield_bpm4acX_rms vs run
χ² / ndf 1.332e+05 / 38
p0 0.02116 ± 2.648e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

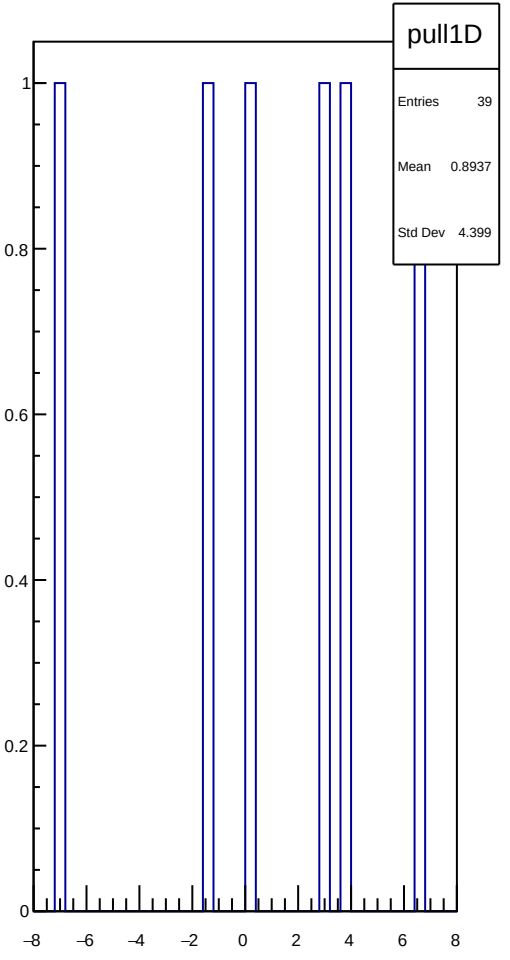

yield_bpm4acY_mean vs run
χ² / ndf 1.02e+05 / 38
p0 0.7353 ± 1.882e−05
0.745
0.74
0.735
0.73
0.725
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 94.3
Std Dev 74.49
100
50
0
−50
−100
pull1D
Entries 39
Mean −3.366
Std Dev 0.8421
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

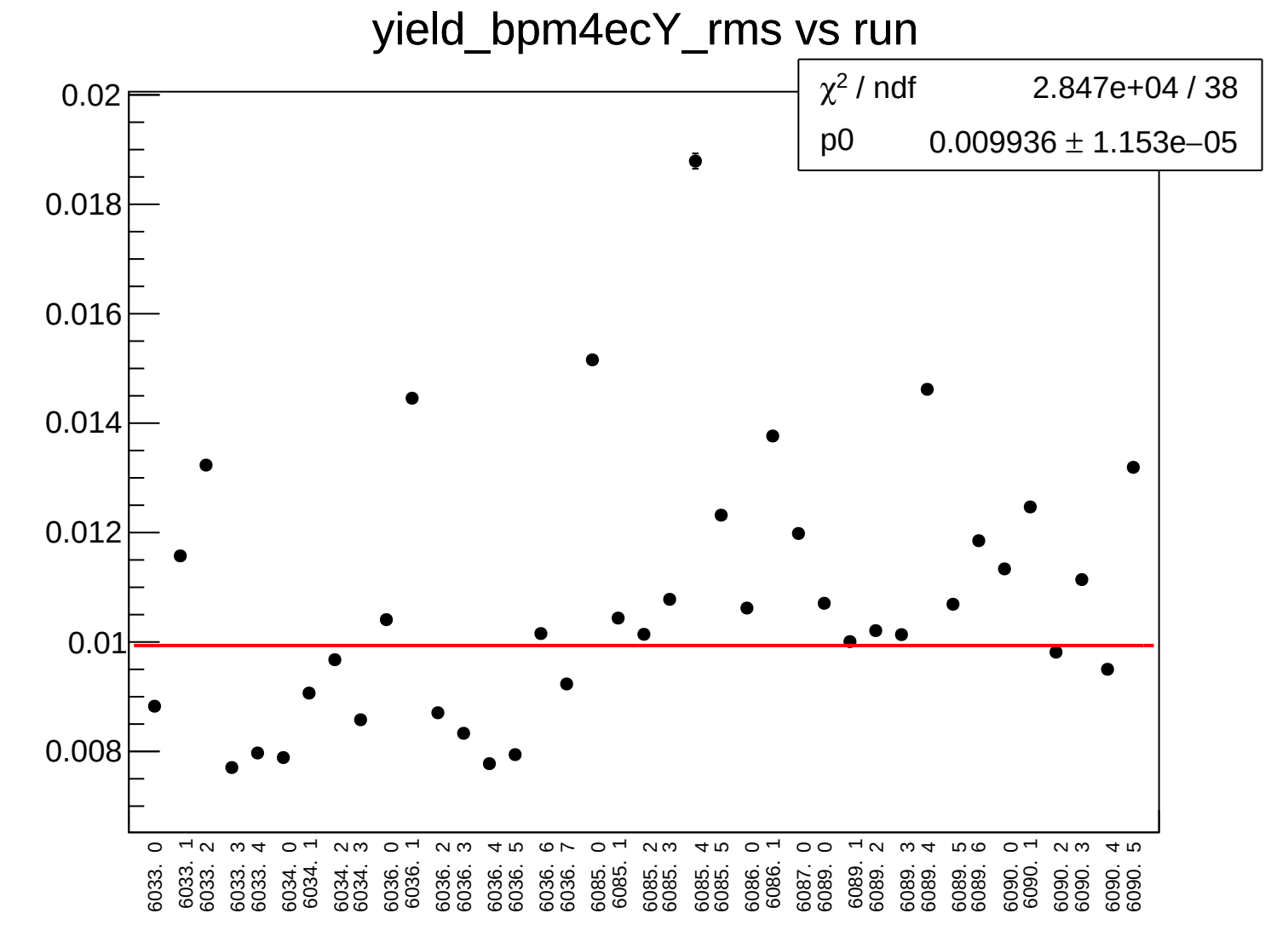

yield_bpm4acY_rms vs run
χ² / ndf 1.745e+04 / 38
p0 0.01156 ± 1.331e–05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

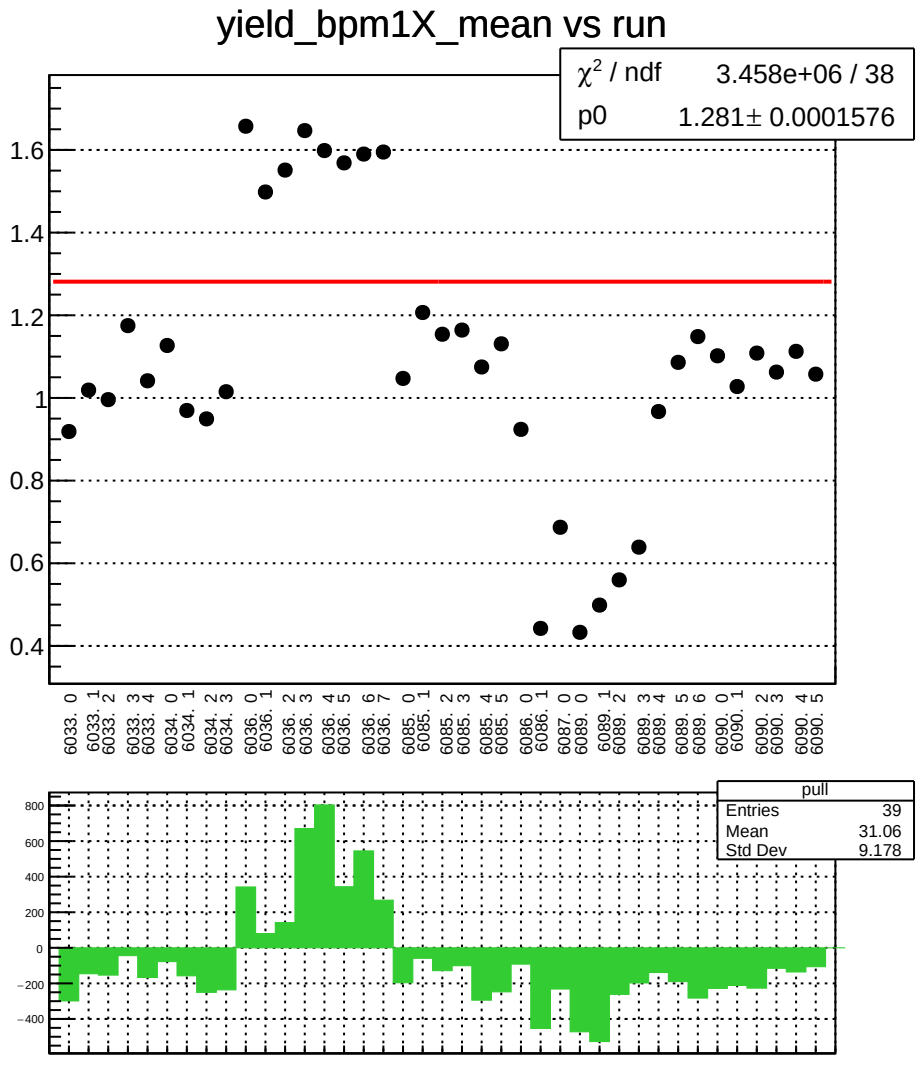

yield_bpm4ecX_mean vs run
χ² / ndf 1.461e+05 / 38
p0 −0.2596 ± 3.466e−05
−0.22
−0.24
−0.26
−0.28
−0.3
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 219.9
Std Dev 203.2
200
150
100
50
0
−50
−100
−150
pull1D
Entries 39
Mean −4.553
Std Dev 4.289
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

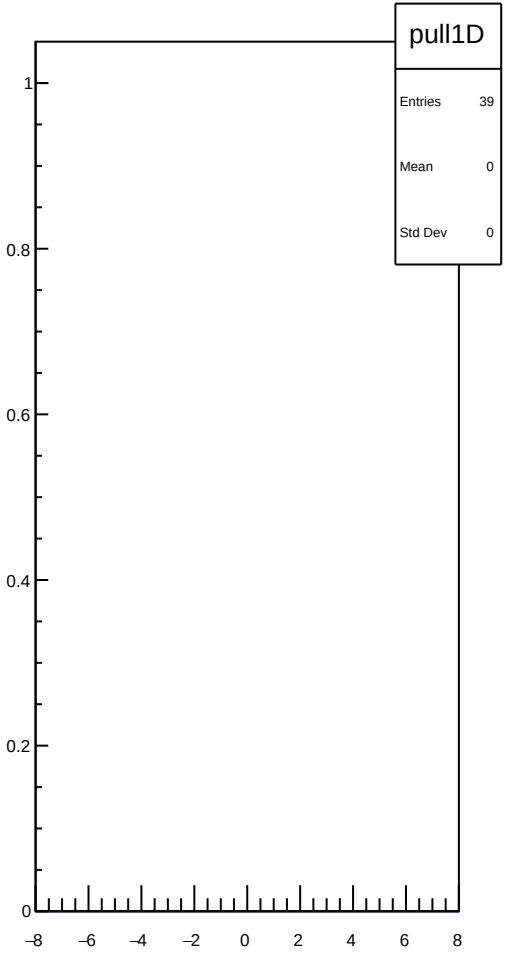

yield_bpm4ecX_rms vs run
χ² / ndf 1.261e+05 / 38
p0 0.01969 ± 2.451e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

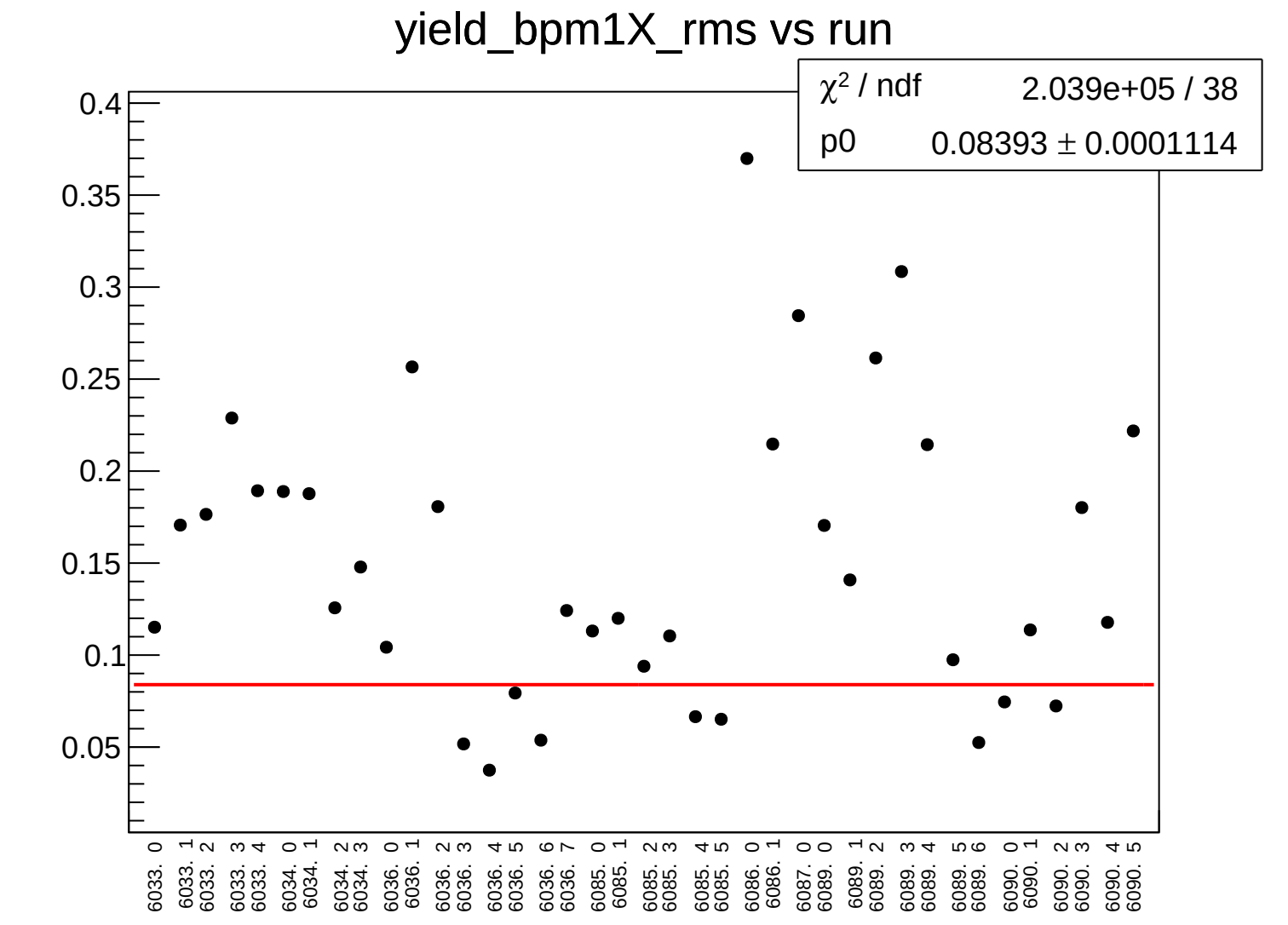

yield_bpm4ecY_mean vs run
χ² / ndf 1.471e+05 / 38
p0 0.1434 ± 1.63e−05
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0.12
0.115
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 73.86
Std Dev 54.89
100
50
0
−50
−100
−150

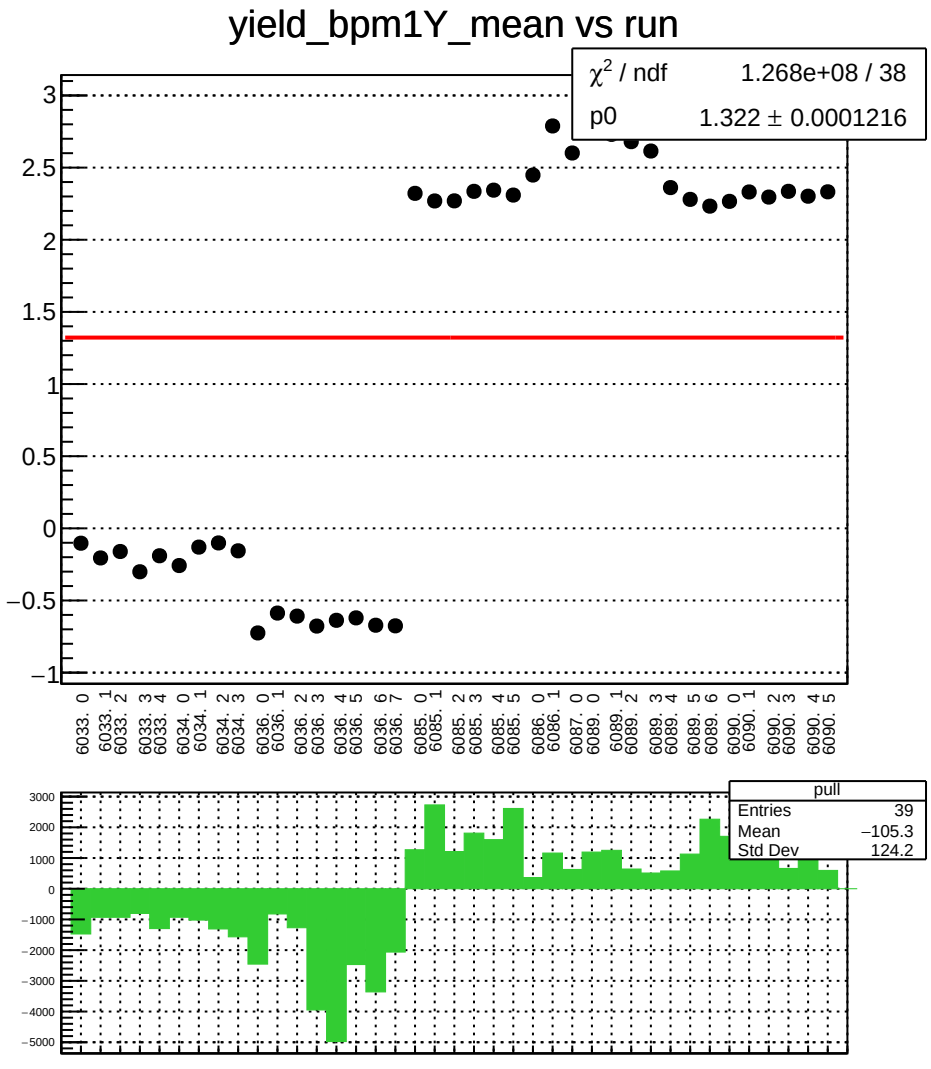

pull1D
Entries 39
Mean 0.8937
Std Dev 4.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

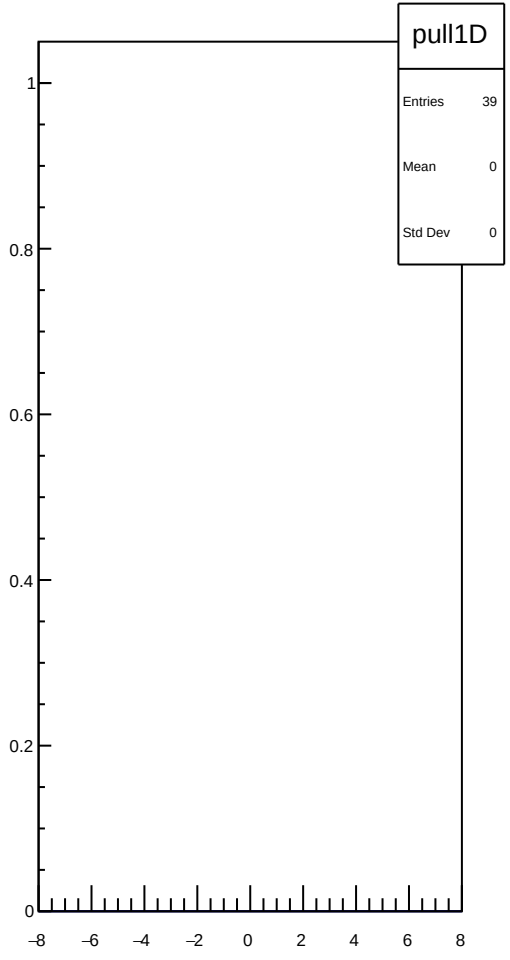

yield_bpm4ecY_rms vs run
χ² / ndf 2.847e+04 / 38
p0 0.009936 ± 1.153e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

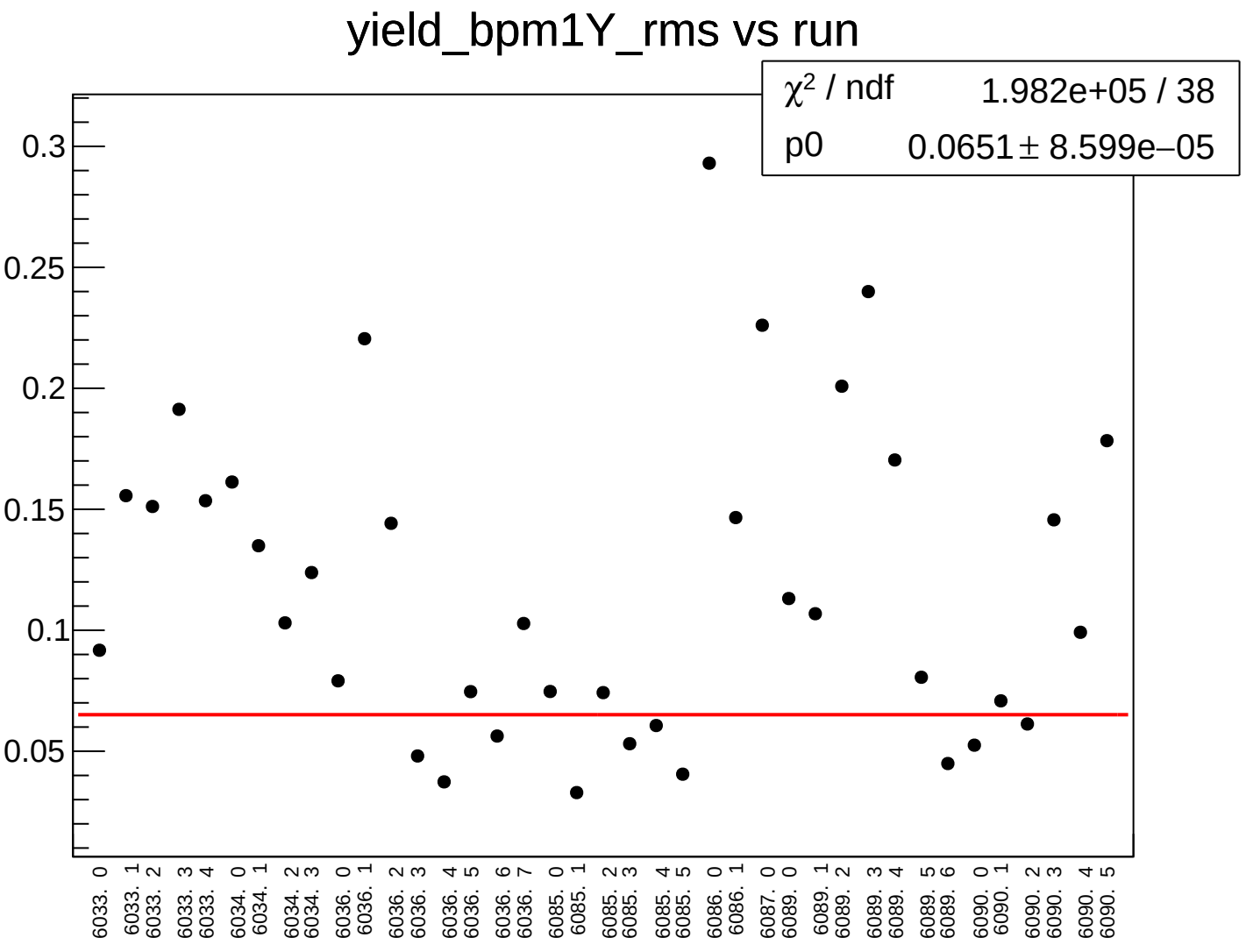

yield_bpm1X_mean vs run
χ² / ndf 3.458e+06 / 38
p0 1.281± 0.0001576
pull
Entries 39
Mean 31.06
Std Dev 9.178

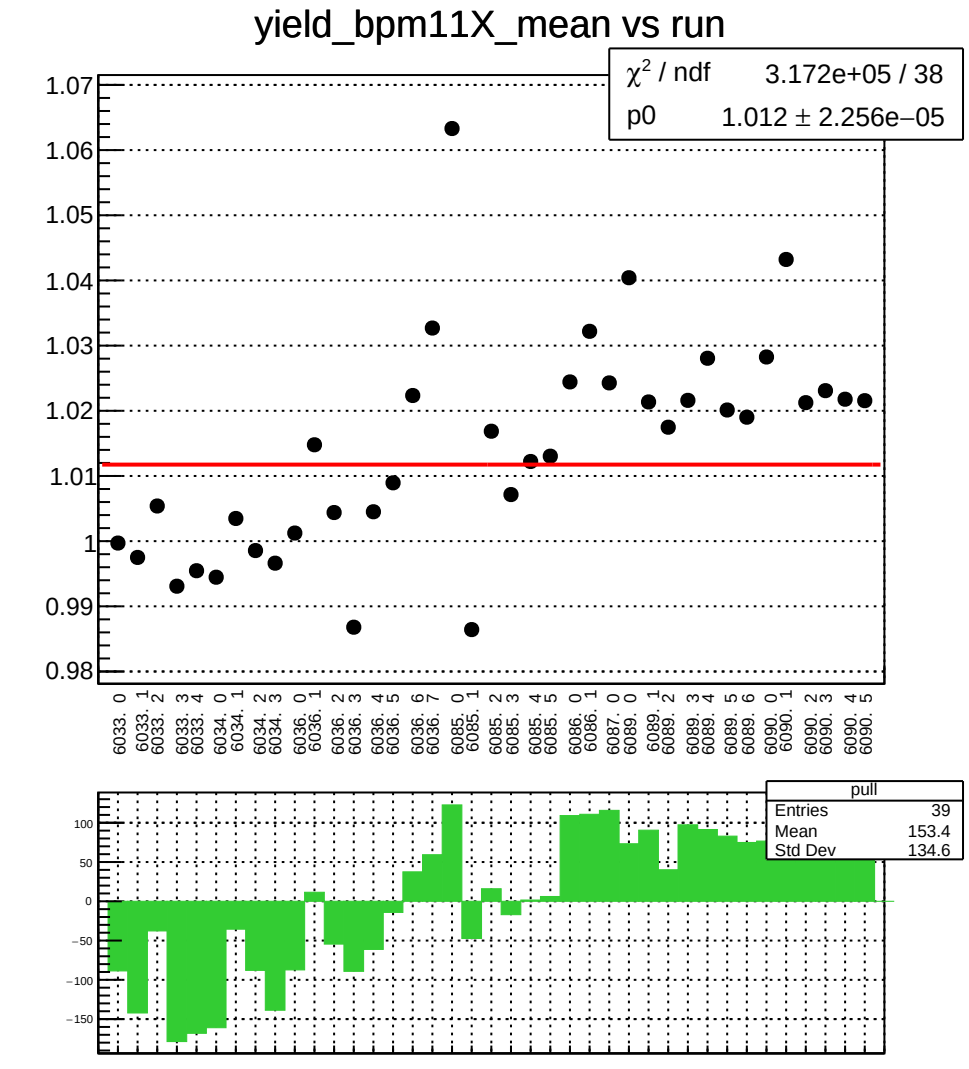

pull1D
Entries 39
Mean 0
Std Dev 0

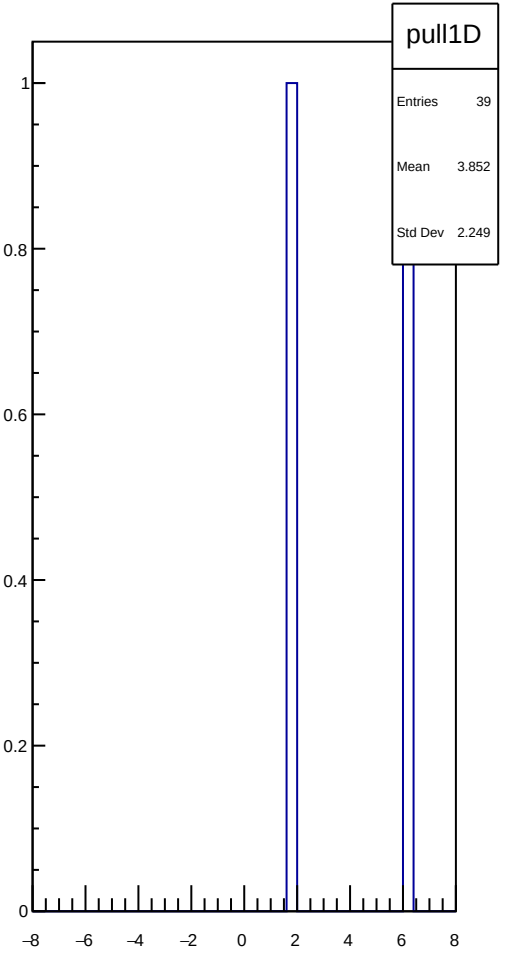

yield_bpm1X_rms vs run
χ² / ndf 2.039e+05 / 38
p0 0.08393 ± 0.0001114
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

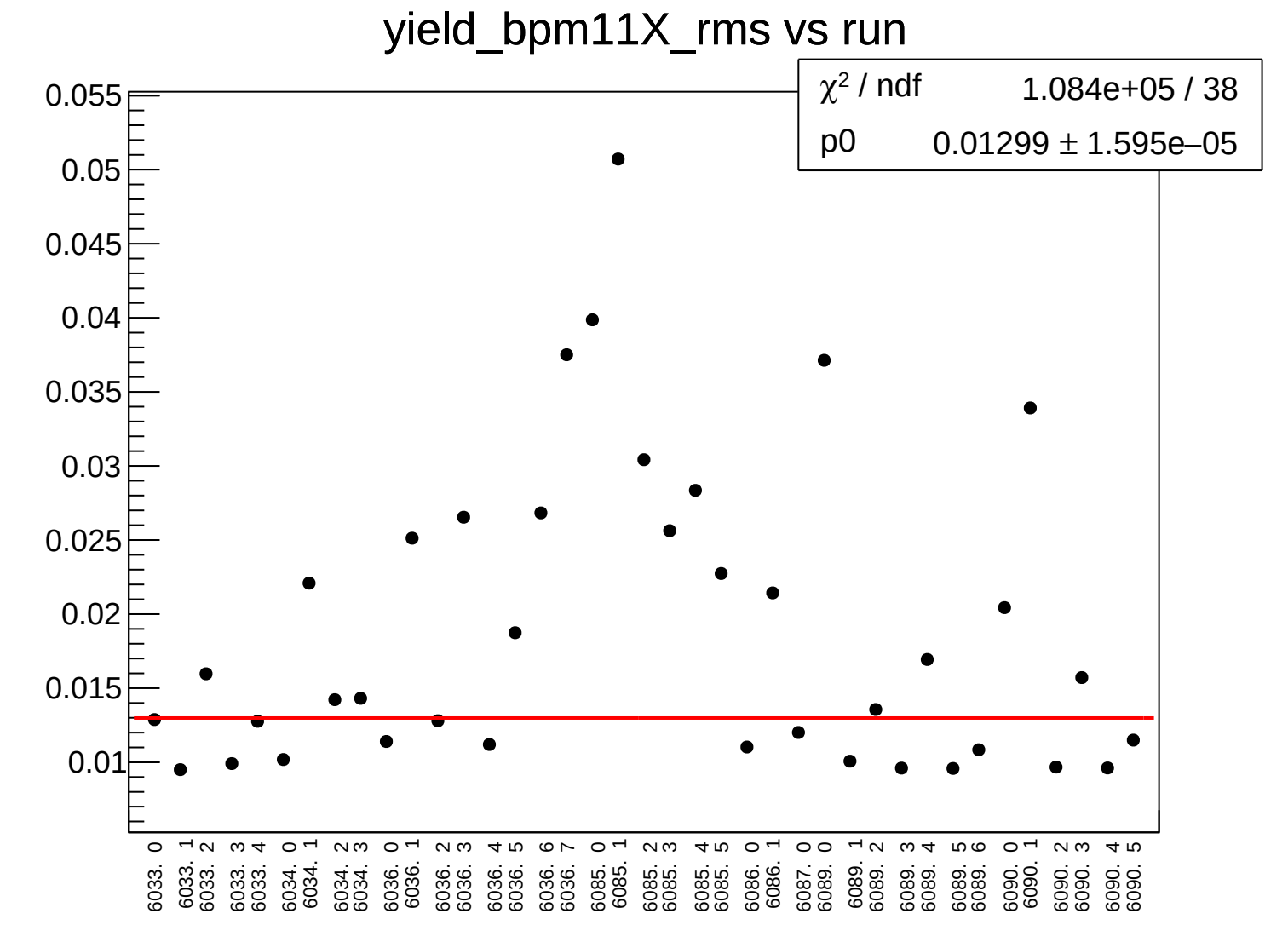

yield_bpm1Y_mean vs run
χ² / ndf 1.268e+08 / 38
p0 1.322 ± 0.0001216
pull
Entries 39
Mean −105.3
Std Dev 124.2

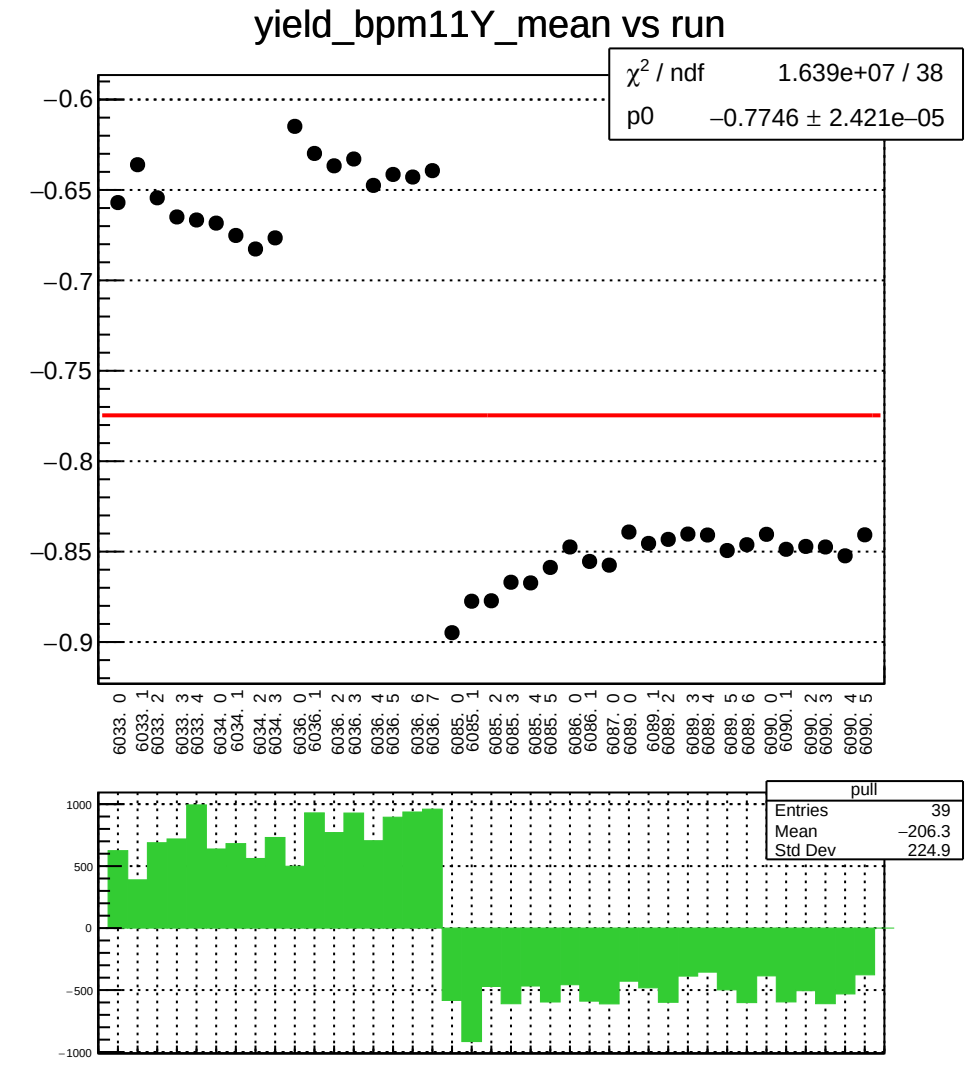

pull1D
Entries 39
Mean 0
Std Dev 0

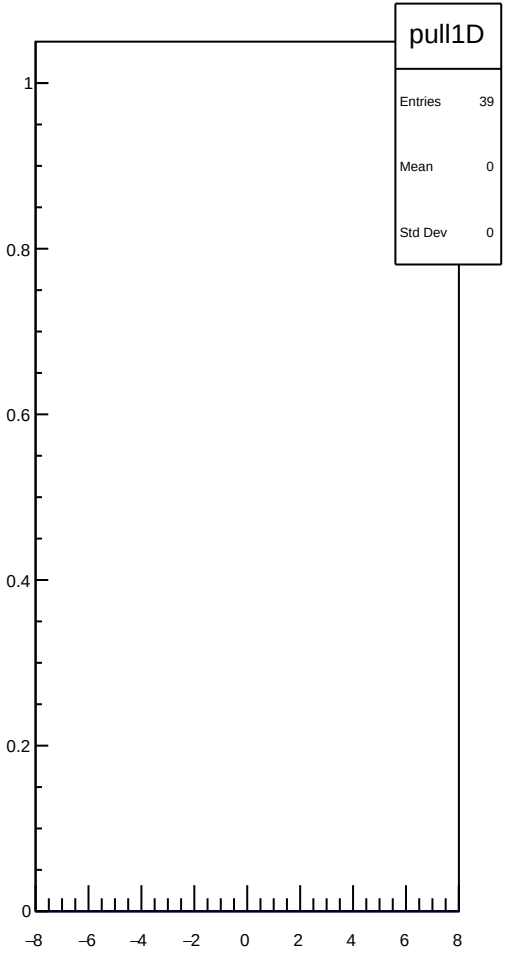

yield_bpm1Y_rms vs run
χ² / ndf 1.982e+05 / 38
p0 0.0651 ± 8.599e−05
0.3
0.25
0.2
0.15
0.1
0.05
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

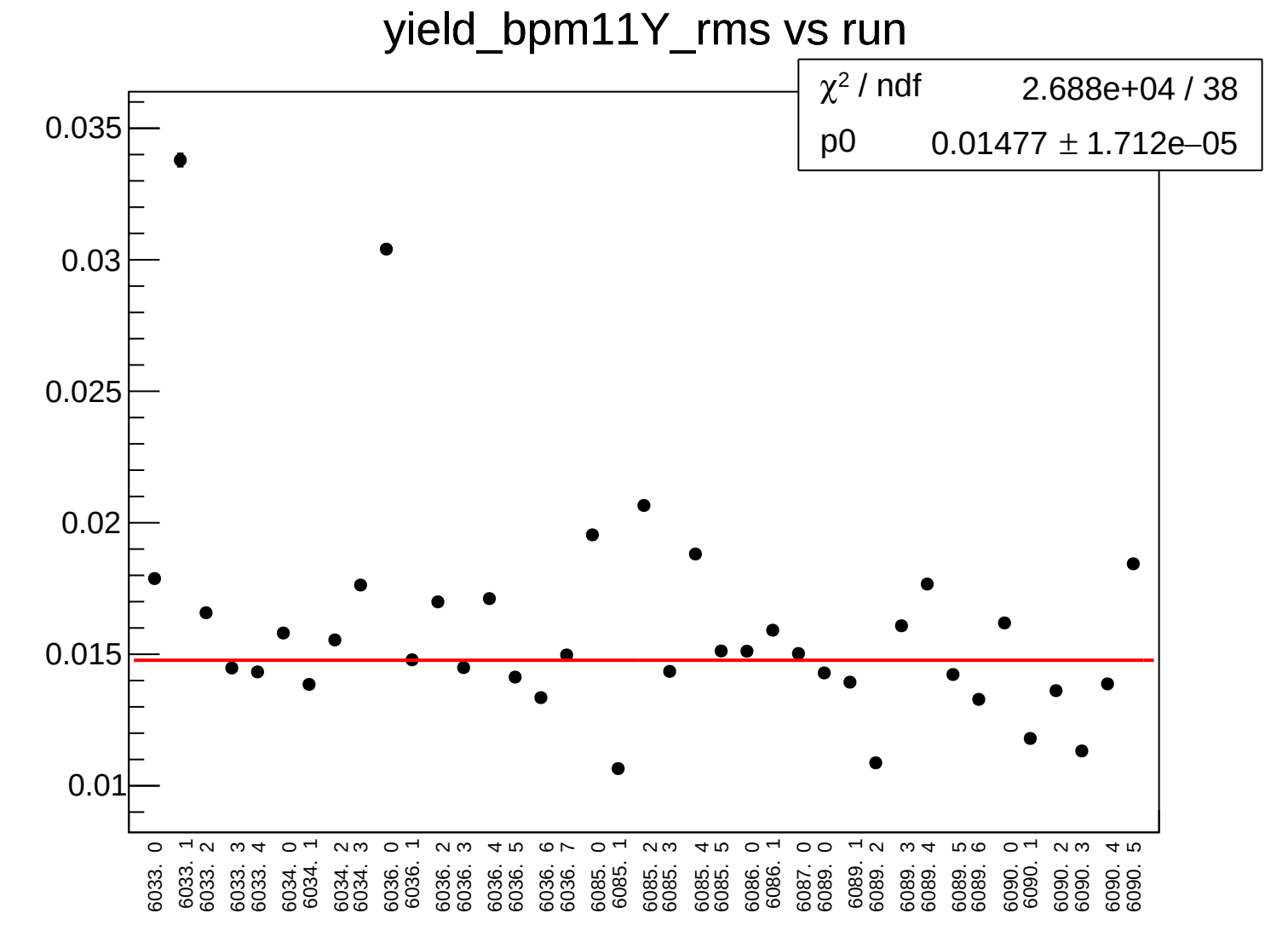

yield_bpm11X_mean vs run
χ² / ndf 3.172e+05 / 38
p0 1.012 ± 2.256e−05
1.07
1.06
1.05
1.04
1.03
1.02
1.01
1
0.99
0.98
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 153.4
Std Dev 134.6
100
50
0
−50
−100
−150

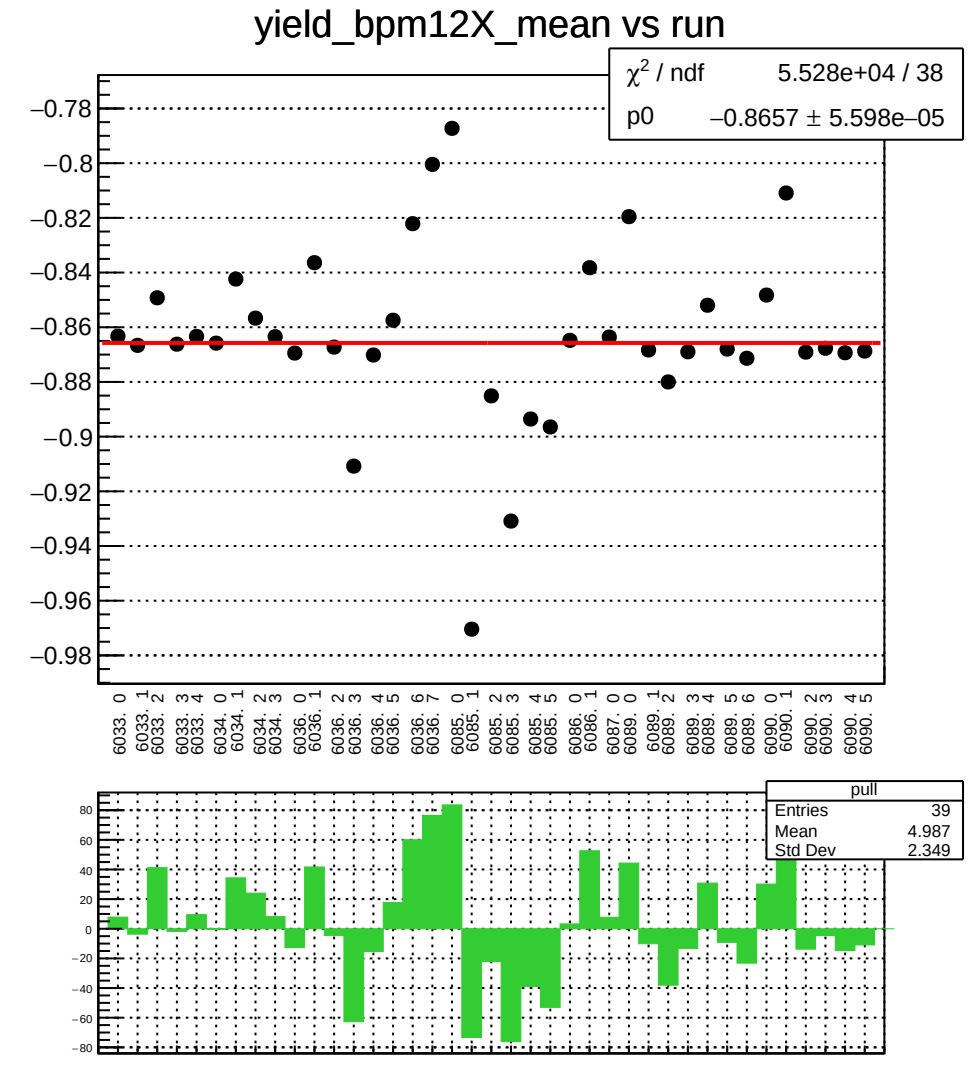

pull1D
Entries 39
Mean 3.852
Std Dev 2.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

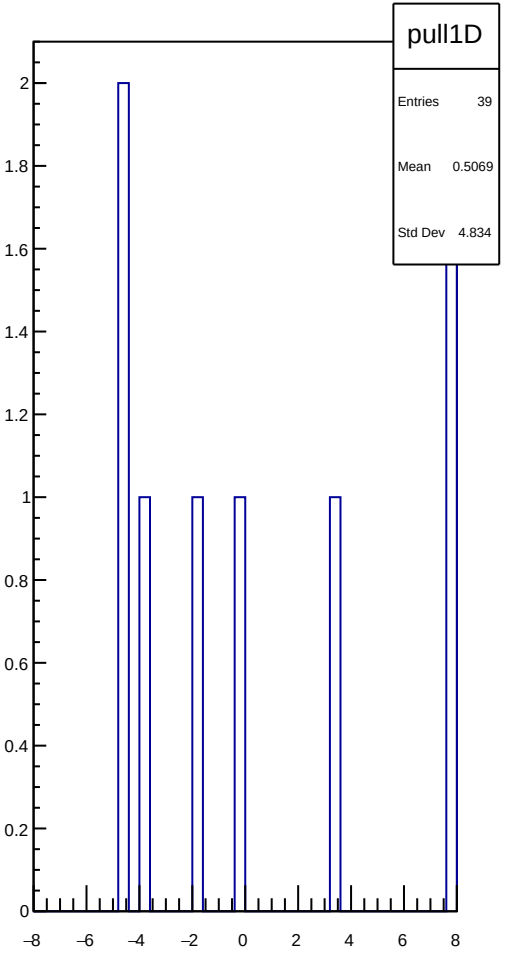

yield_bpm11X_rms vs run
χ² / ndf 1.084e+05 / 38
p0 0.01299 ± 1.595e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

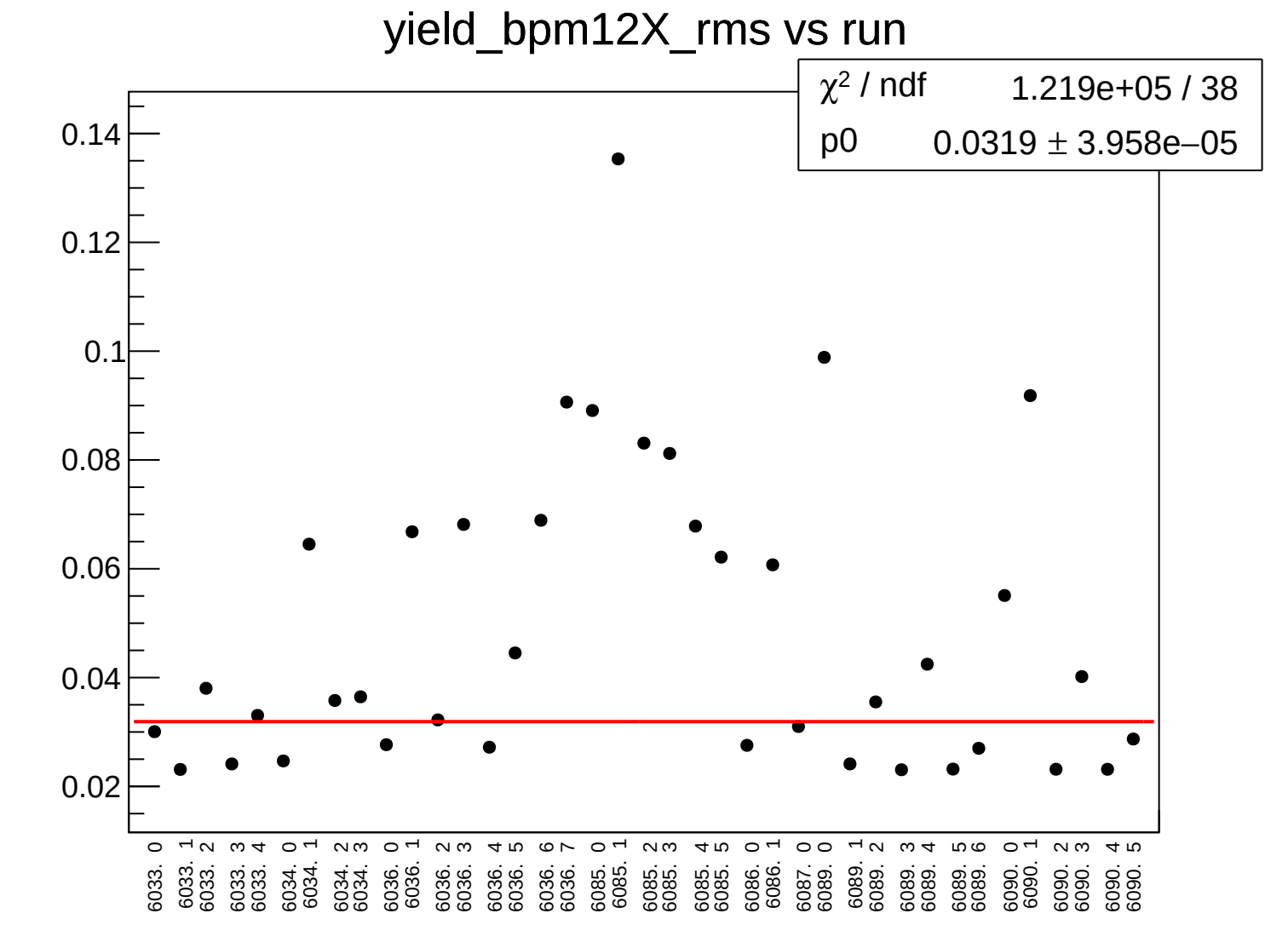

yield_bpm11Y_mean vs run
χ² / ndf 1.639e+07 / 38
p0 −0.7746 ± 2.421e−05
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −206.3
Std Dev 224.9
1000
500
0
−500
−1000

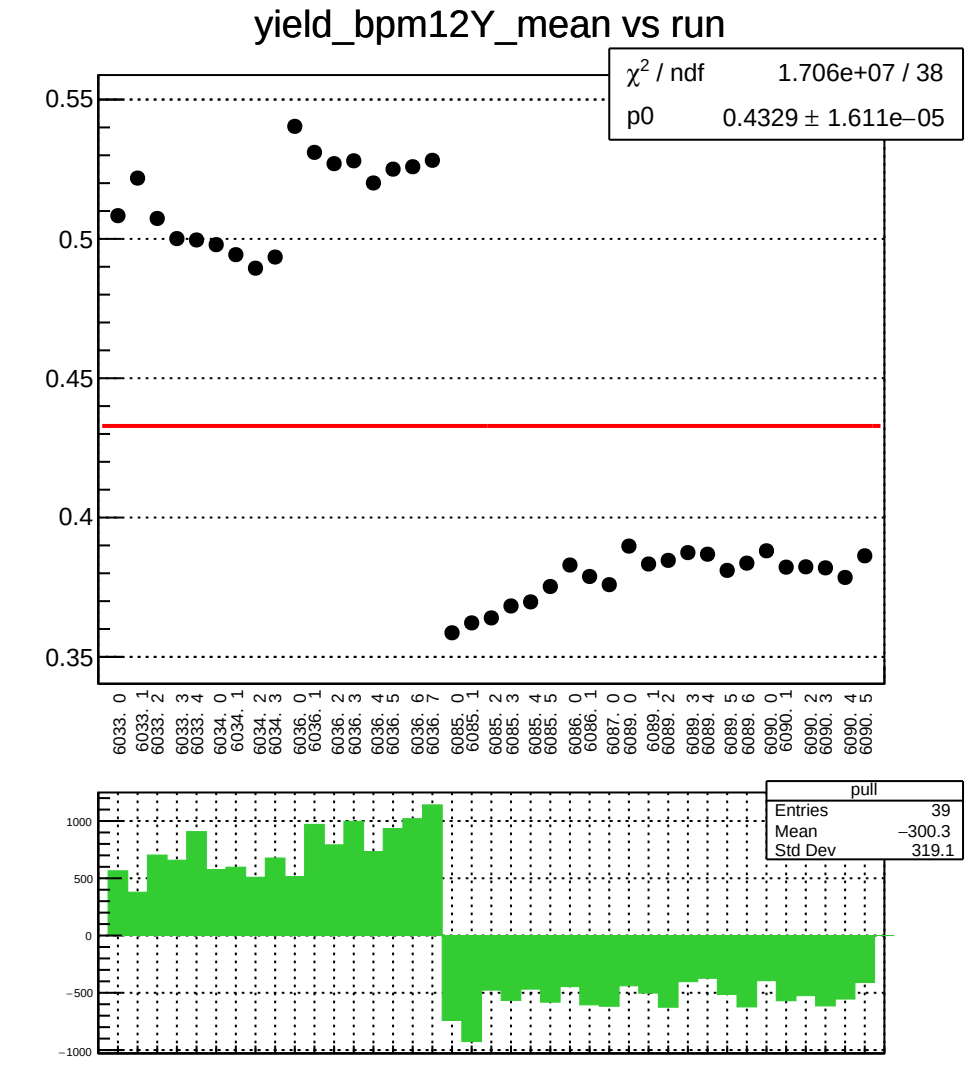

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

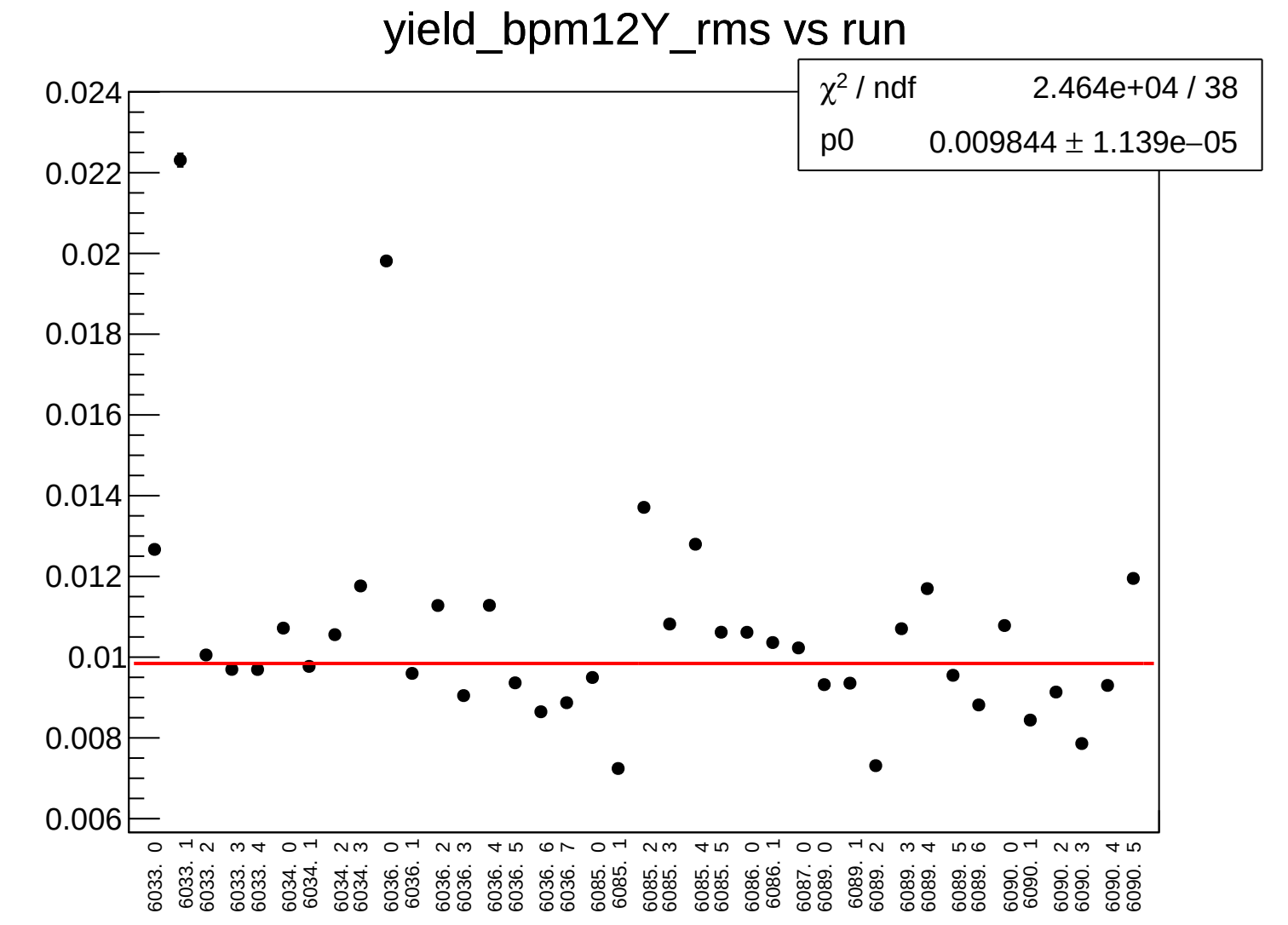

yield_bpm11Y_rms vs run
χ² / ndf 2.688e+04 / 38
p0 0.01477 ± 1.712e–05
0.035
0.03
0.025
0.02
0.015
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

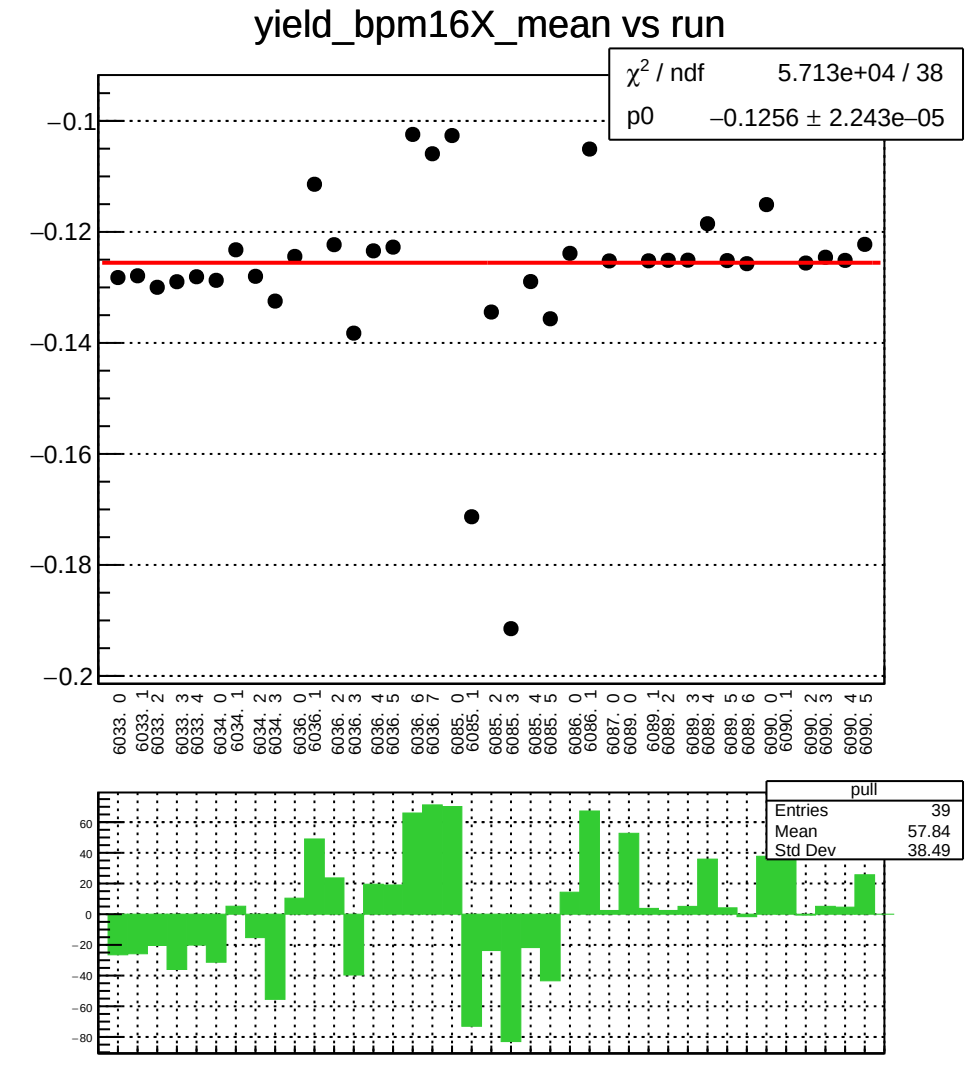

yield_bpm12X_mean vs run
χ² / ndf 5.528e+04 / 38
p0 −0.8657 ± 5.598e−05
pull
Entries 39
Mean 4.987
Std Dev 2.349

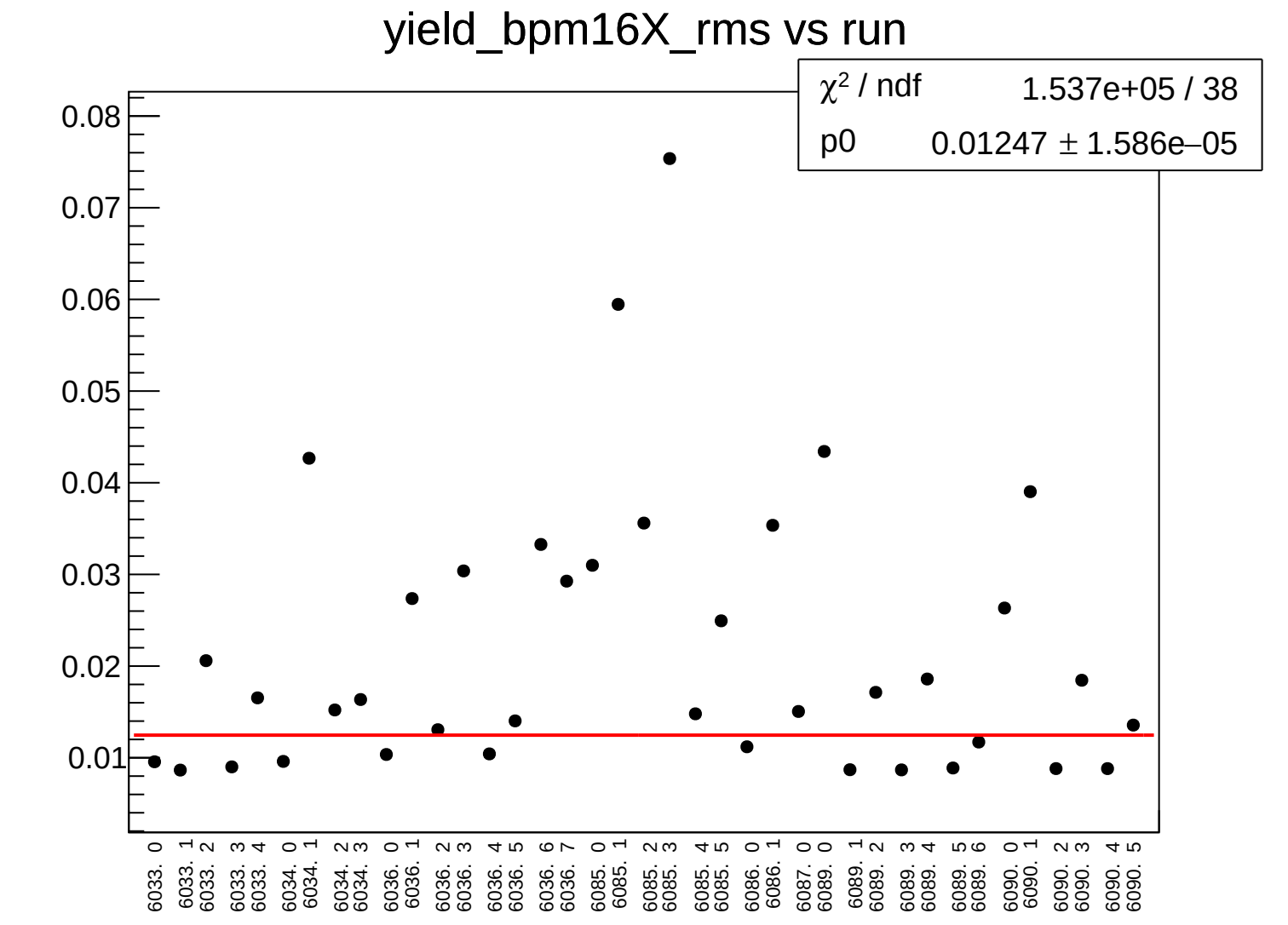

pull1D
Entries 39
Mean 0.5069
Std Dev 4.834

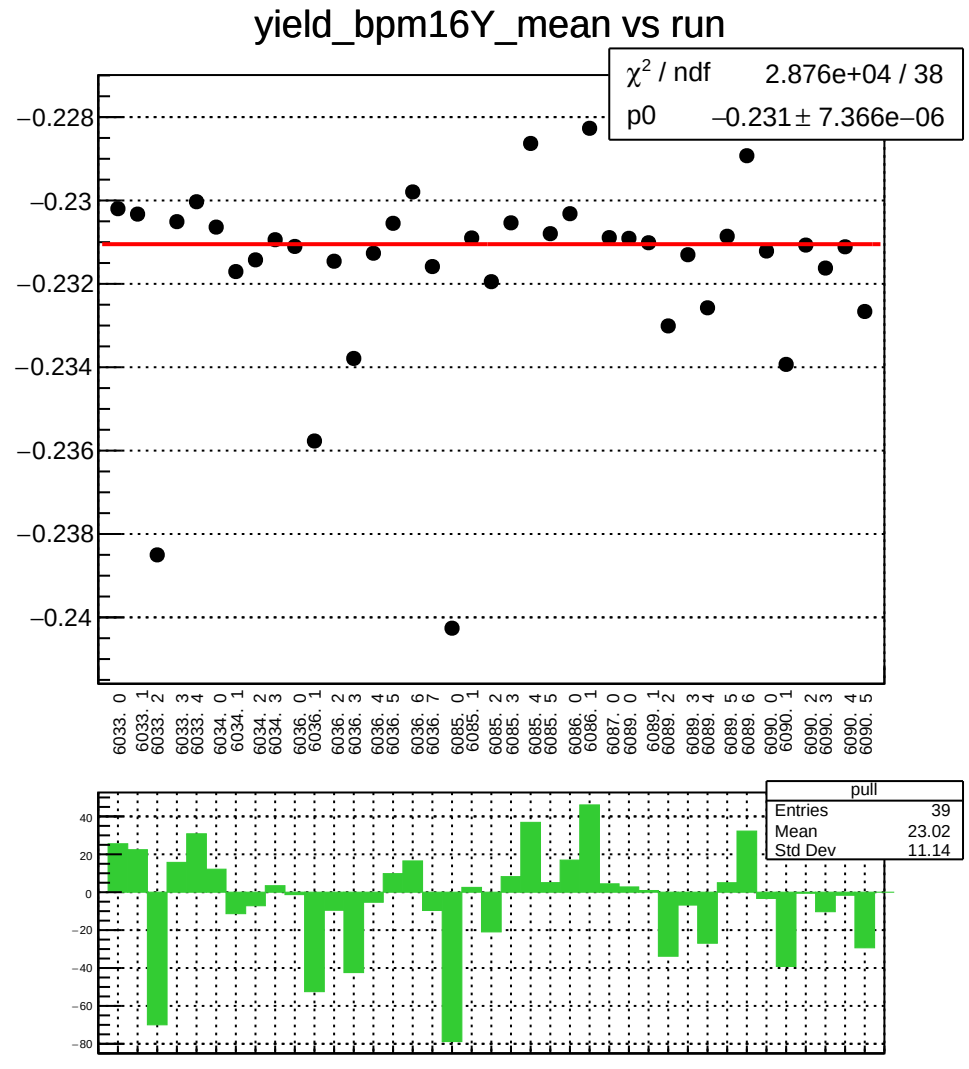

yield_bpm12X_rms vs run
χ² / ndf 1.219e+05 / 38
p0 0.0319 ± 3.958e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

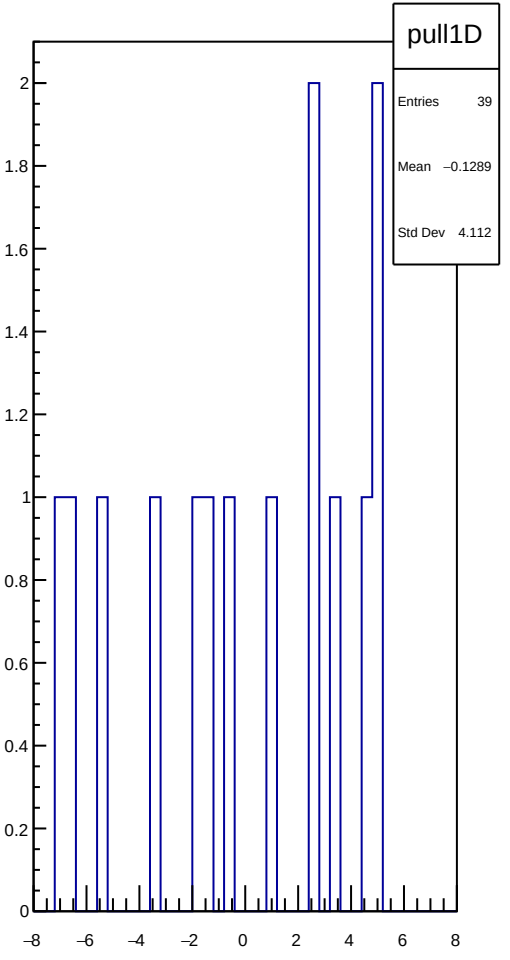

yield_bpm12Y_mean vs run
χ² / ndf 1.706e+07 / 38
p0 0.4329 ± 1.611e−05
0.55
0.5
0.45
0.4
0.35
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −300.3
Std Dev 319.1
1000
500
0
−500
−1000
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

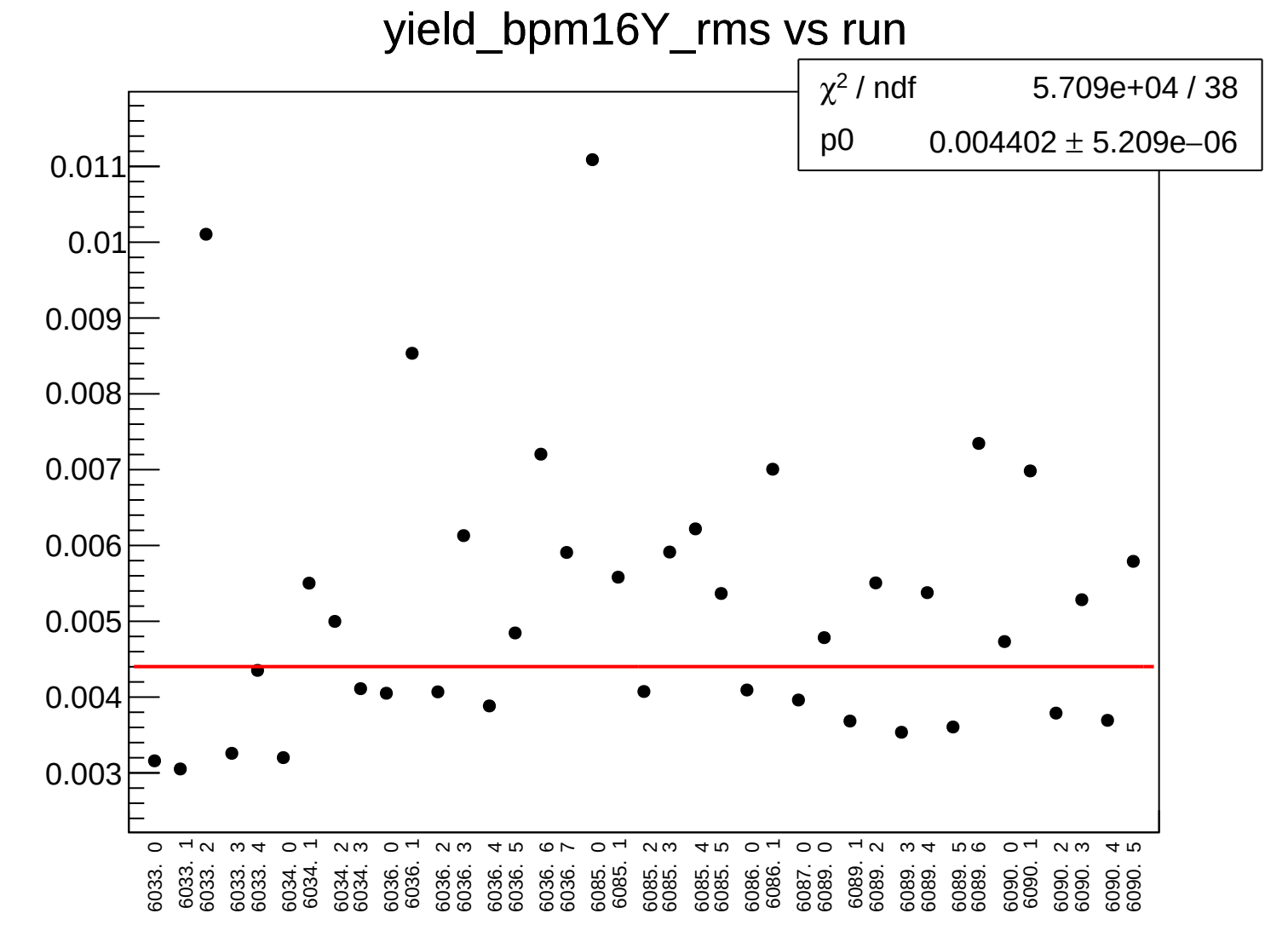

yield_bpm12Y_rms vs run
χ² / ndf 2.464e+04 / 38
p0 0.009844 ± 1.139e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

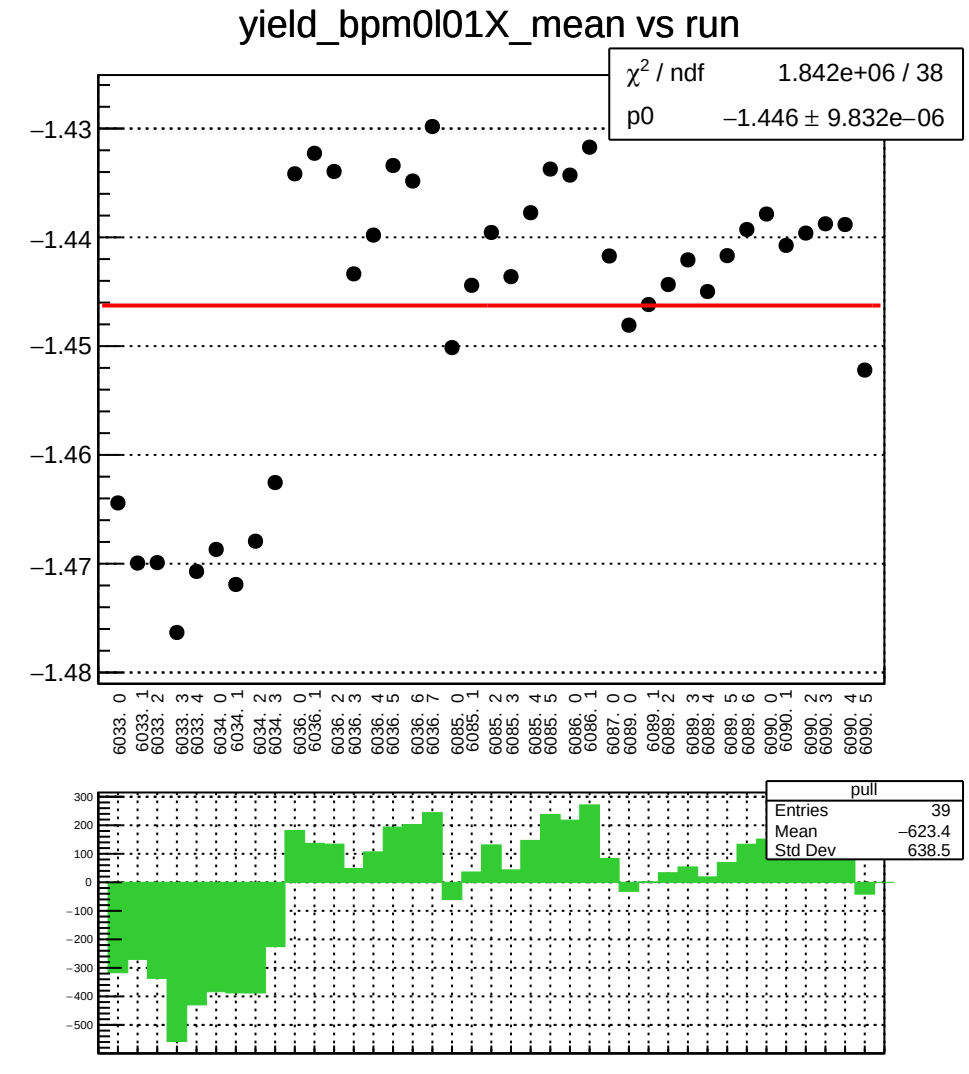

yield_bpm16X_mean vs run
χ² / ndf 5.713e+04 / 38
p0 −0.1256 ± 2.243e−05
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 57.84
Std Dev 38.49
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 39
Mean 3.054
Std Dev 2.289
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

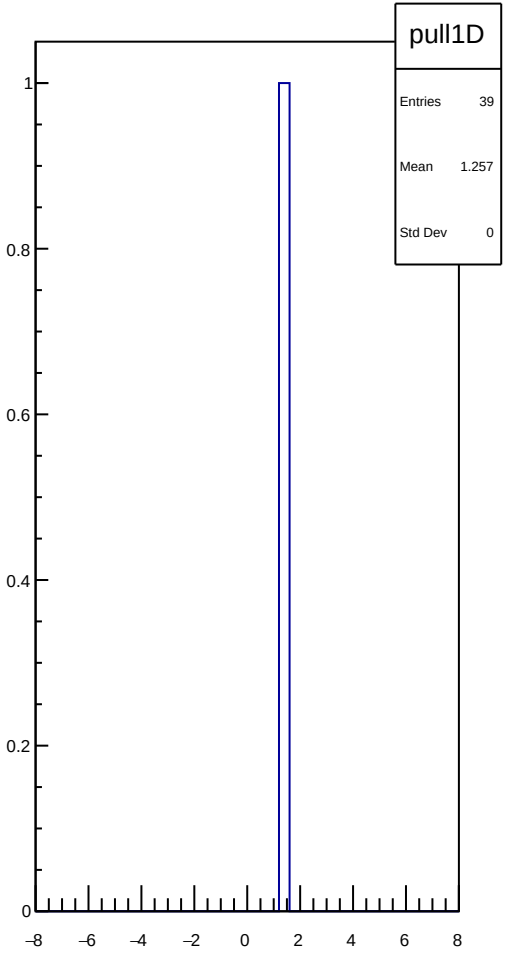

yield_bpm16X_rms vs run
χ² / ndf 1.537e+05 / 38
p0 0.01247 ± 1.586e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

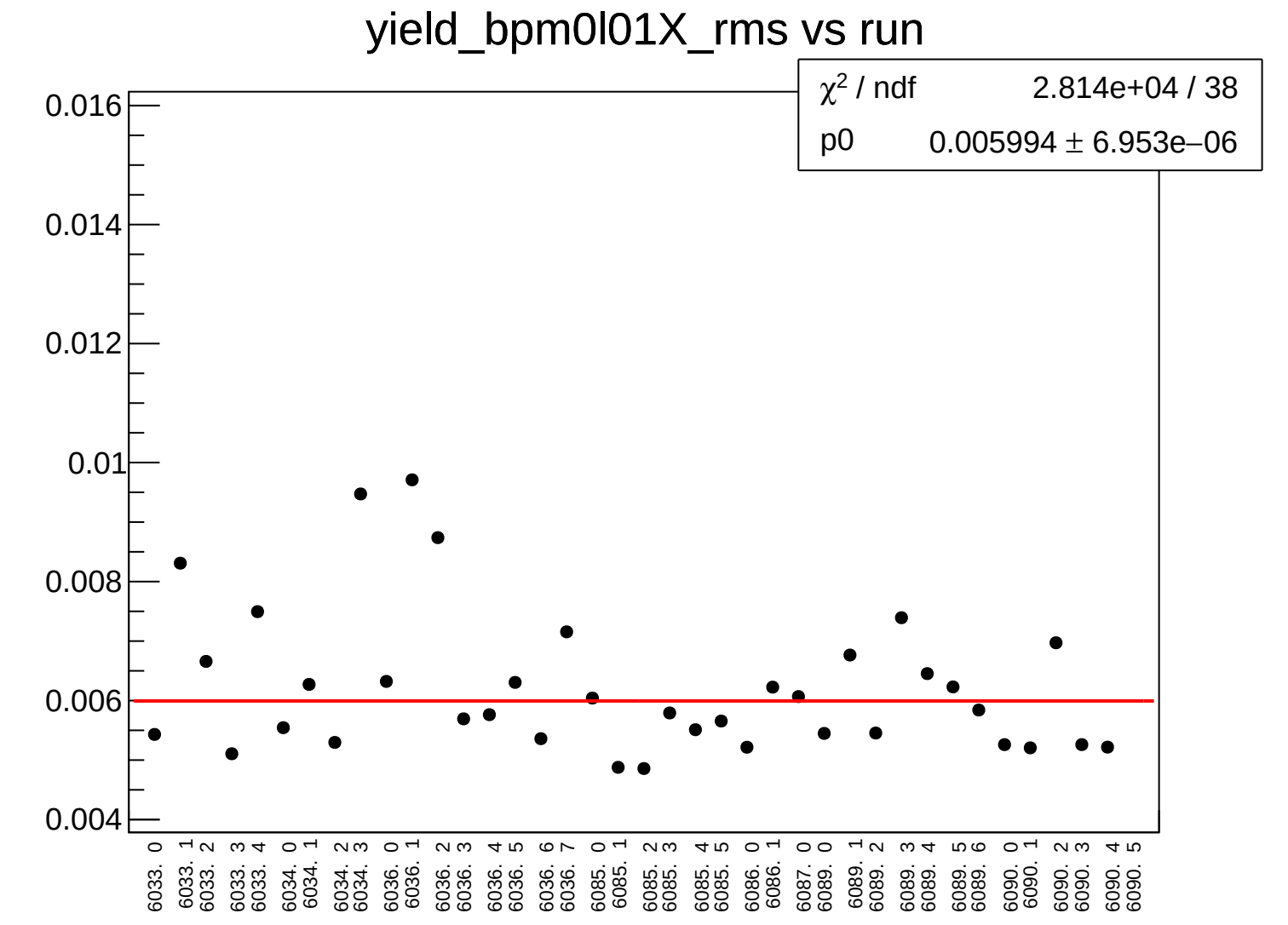

yield_bpm16Y_mean vs run
χ² / ndf 2.876e+04 / 38
p0 −0.231 ± 7.366e−06
−0.228
−0.23
−0.232
−0.234
−0.236
−0.238
−0.24
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 23.02
Std Dev 11.14
40
20
0
−20
−40
−60
−80

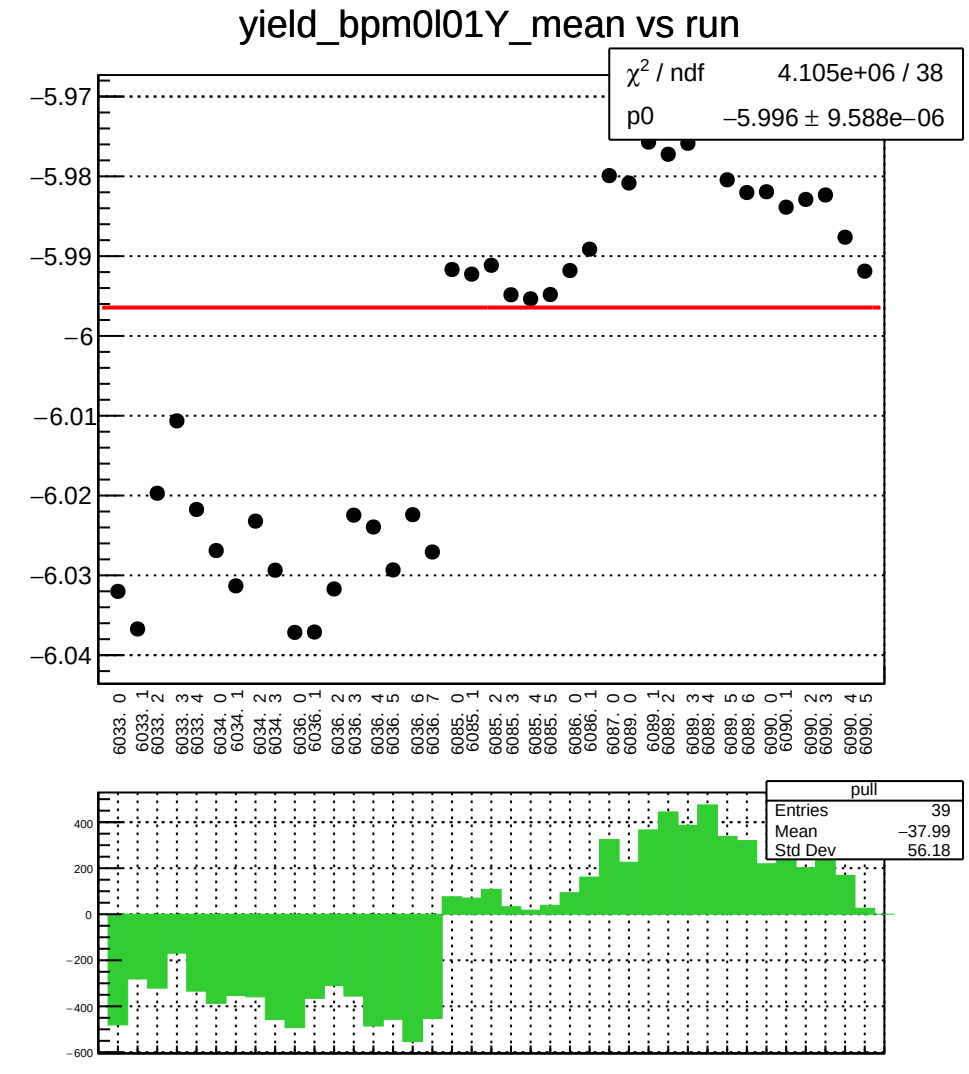

pull1D
Entries 39
Mean −0.1289
Std Dev 4.112
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

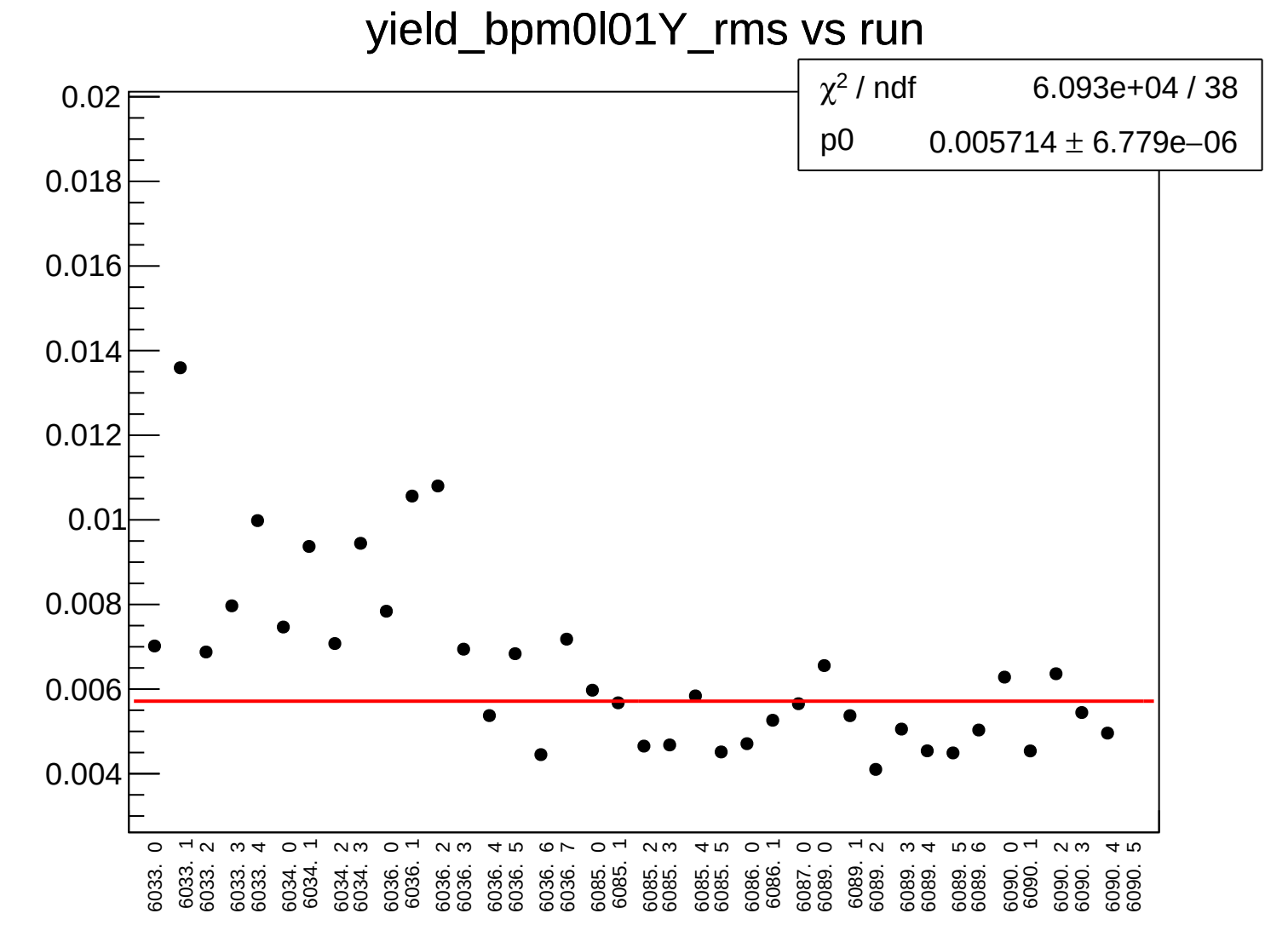

yield_bpm16Y_rms vs run
χ² / ndf 5.709e+04 / 38
p0 0.004402 ± 5.209e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

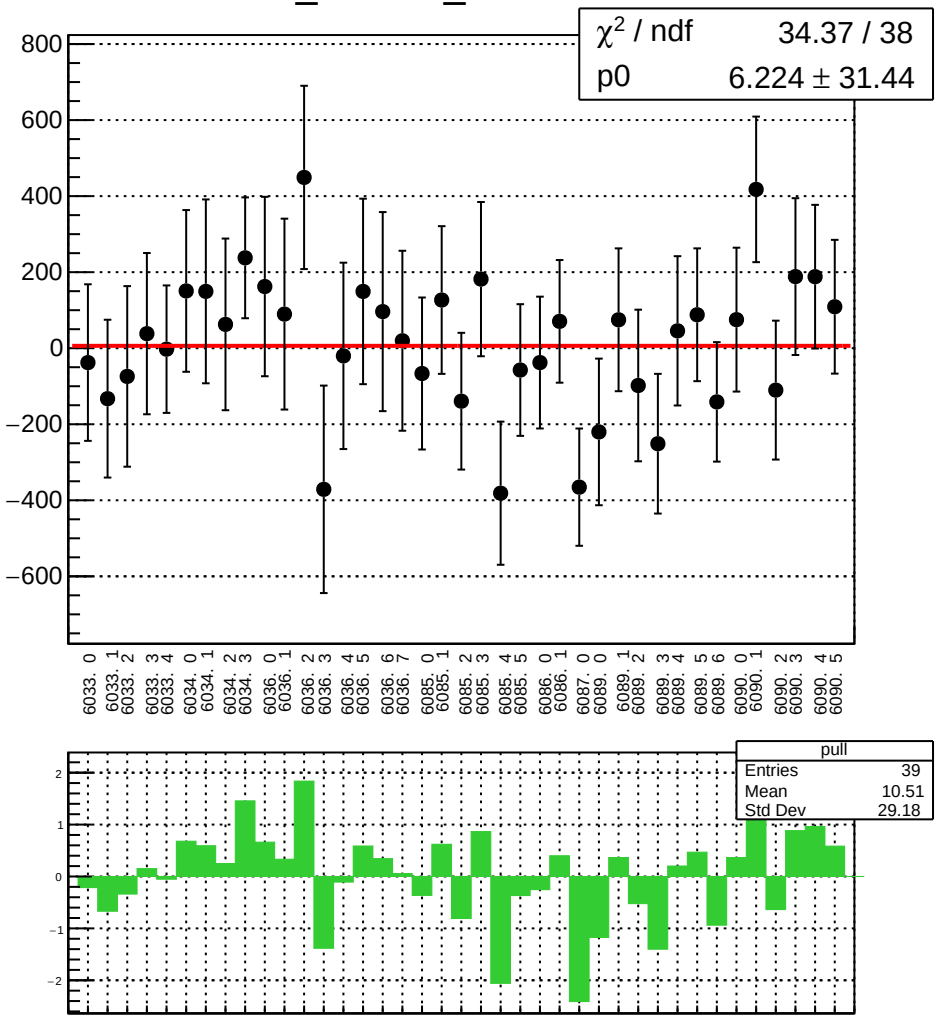

yield_bpm0l01X_mean vs run
χ² / ndf 1.842e+06 / 38
p0 −1.446 ± 9.832e−06
−1.43
−1.44
−1.45
−1.46
−1.47
−1.48
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −623.4
Std Dev 638.5
300
200
100
0
−100
−200
−300
−400
−500

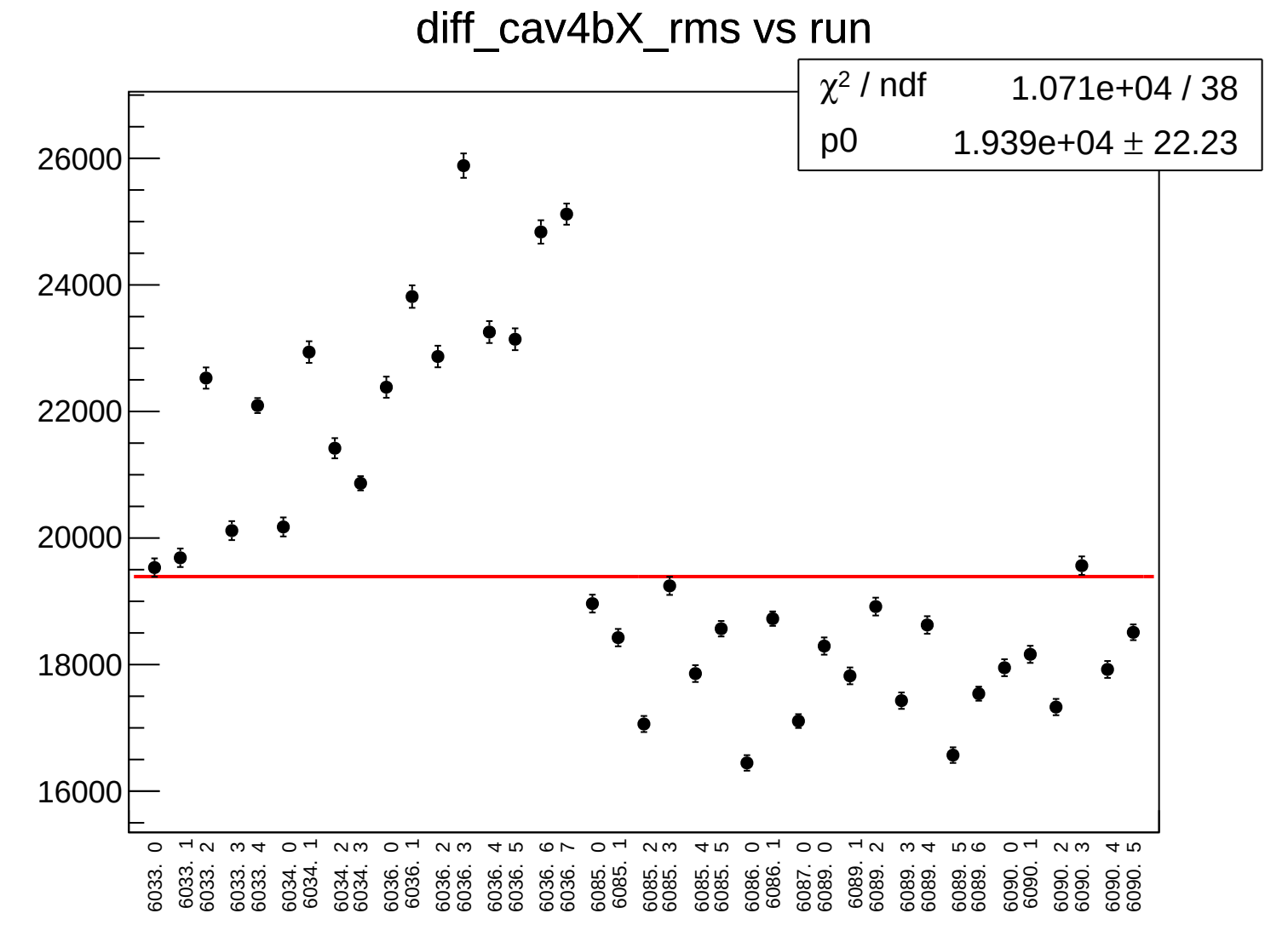

pull1D
Entries 39
Mean 1.257
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

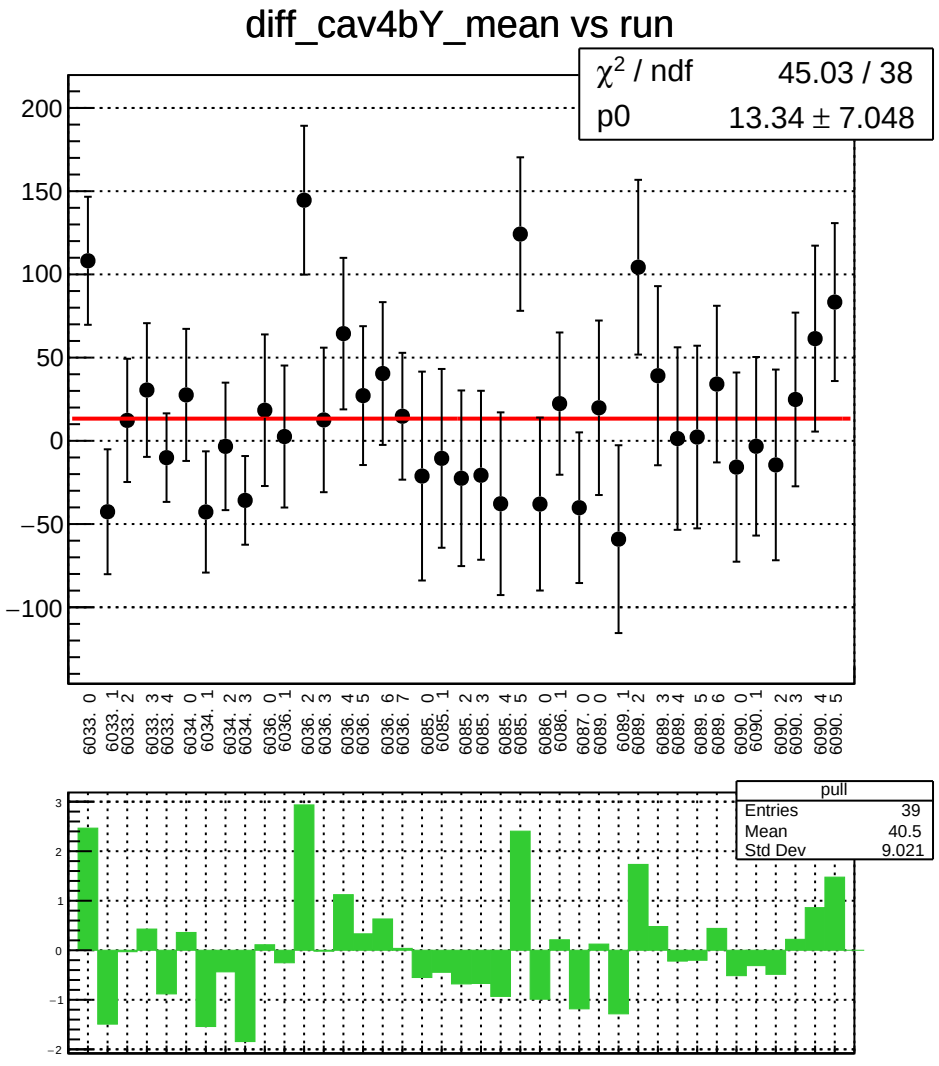

yield_bpm0l01X_rms vs run
χ² / ndf 2.814e+04 / 38
p0 0.005994 ± 6.953e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

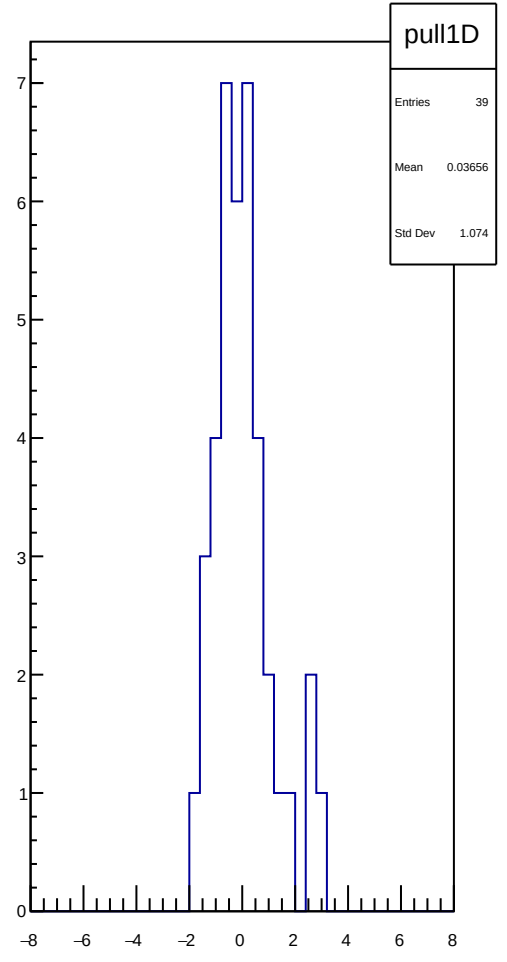

yield_bpm0l01Y_mean vs run
χ² / ndf 4.105e+06 / 38
p0 −5.996 ± 9.588e−06
−5.97
−5.98
−5.99
−6
−6.01
−6.02
−6.03
−6.04
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −37.99
Std Dev 56.18
400
200
0
−200
−400
−600
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

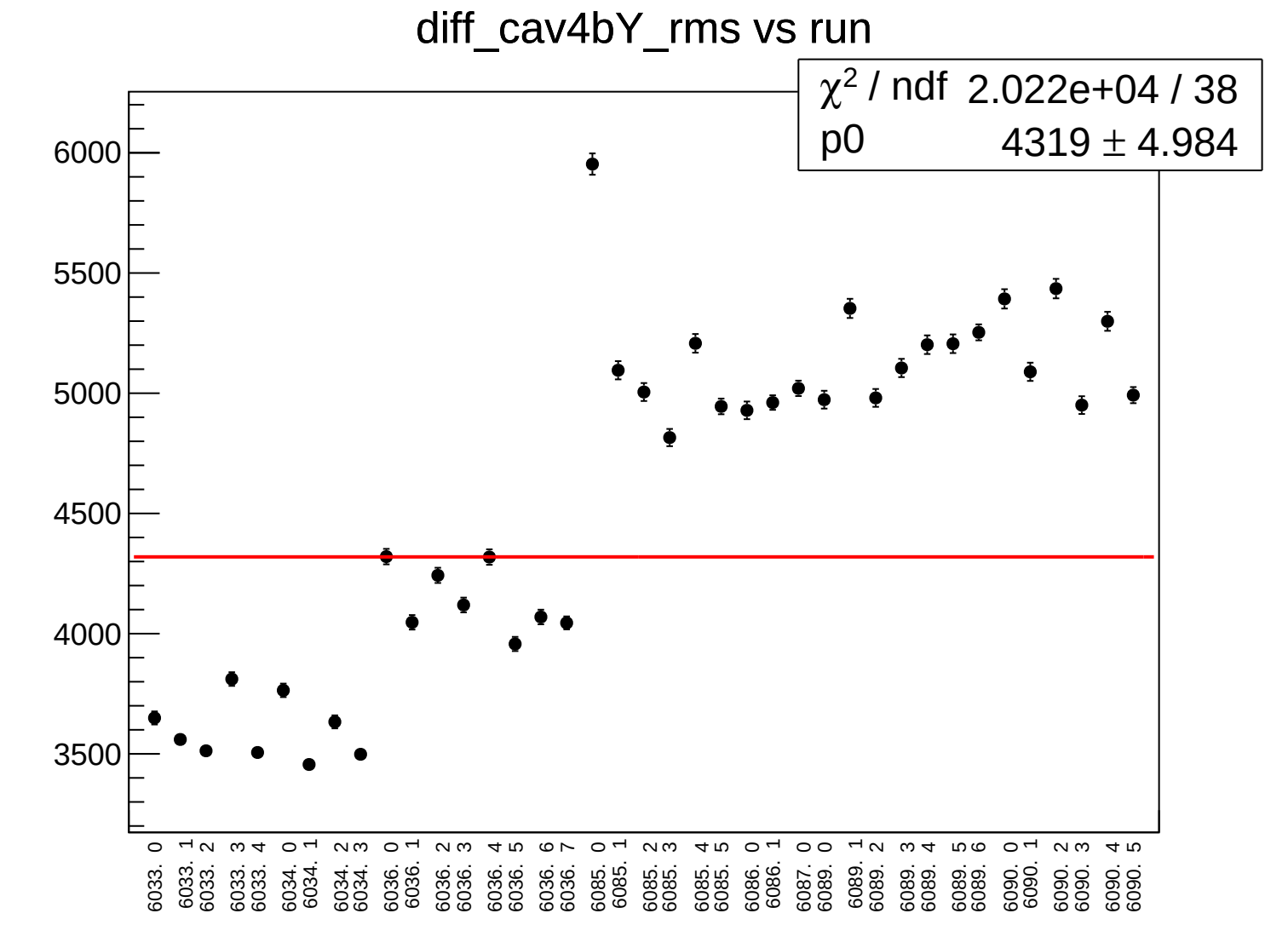

yield_bpm0l01Y_rms vs run
χ² / ndf 6.093e+04 / 38
p0 0.005714 ± 6.779e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

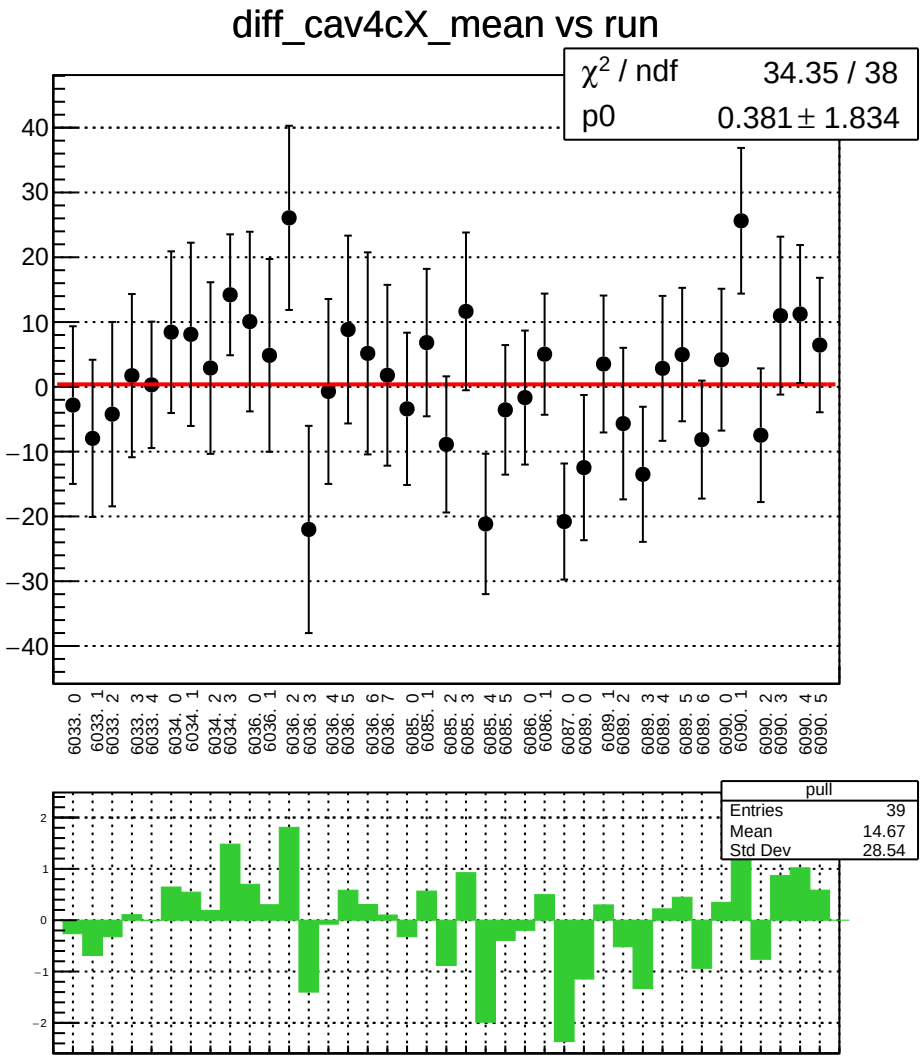

diff_cav4bX_mean vs run
χ² / ndf 34.37 / 38
p0 6.224 ± 31.44
pull
Entries 39
Mean 10.51
Std Dev 29.18
pull1D
Entries 39
Mean 0.02847
Std Dev 0.9383

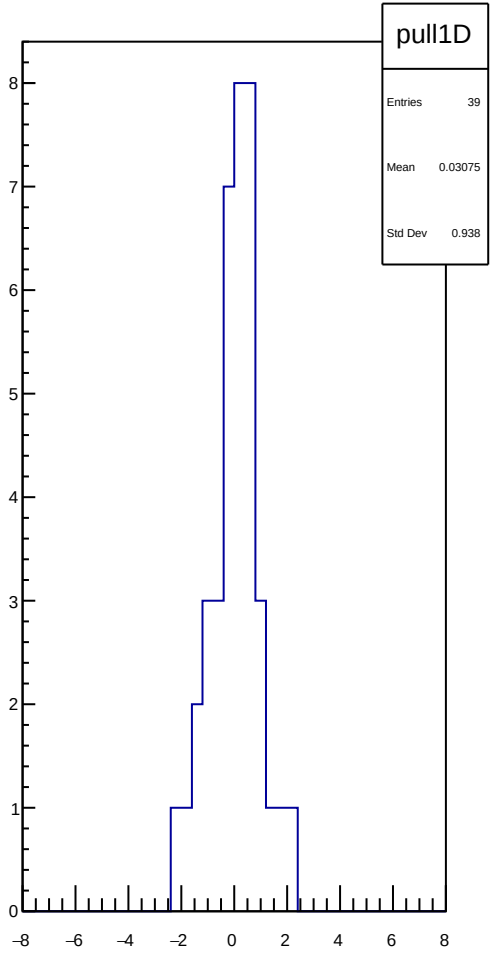

diff_cav4bX_rms vs run
χ² / ndf 1.071e+04 / 38
p0 1.939e+04 ± 22.23
26000
24000
22000
20000
18000
16000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

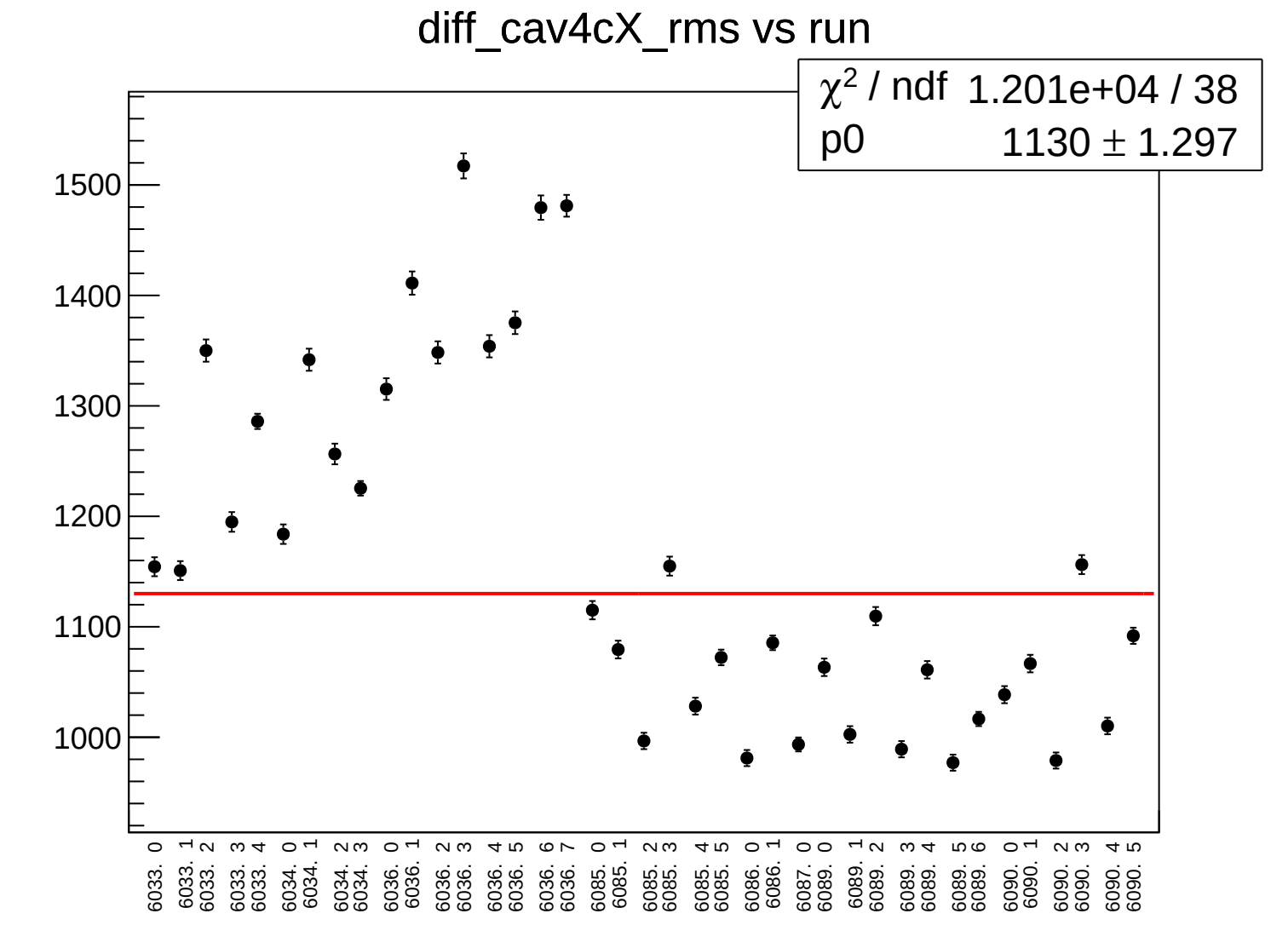

diff_cav4bY_mean vs run
χ² / ndf 45.03 / 38
p0 13.34 ± 7.048
200
150
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 40.5
Std Dev 9.021
3
2
1
0
−1
−2

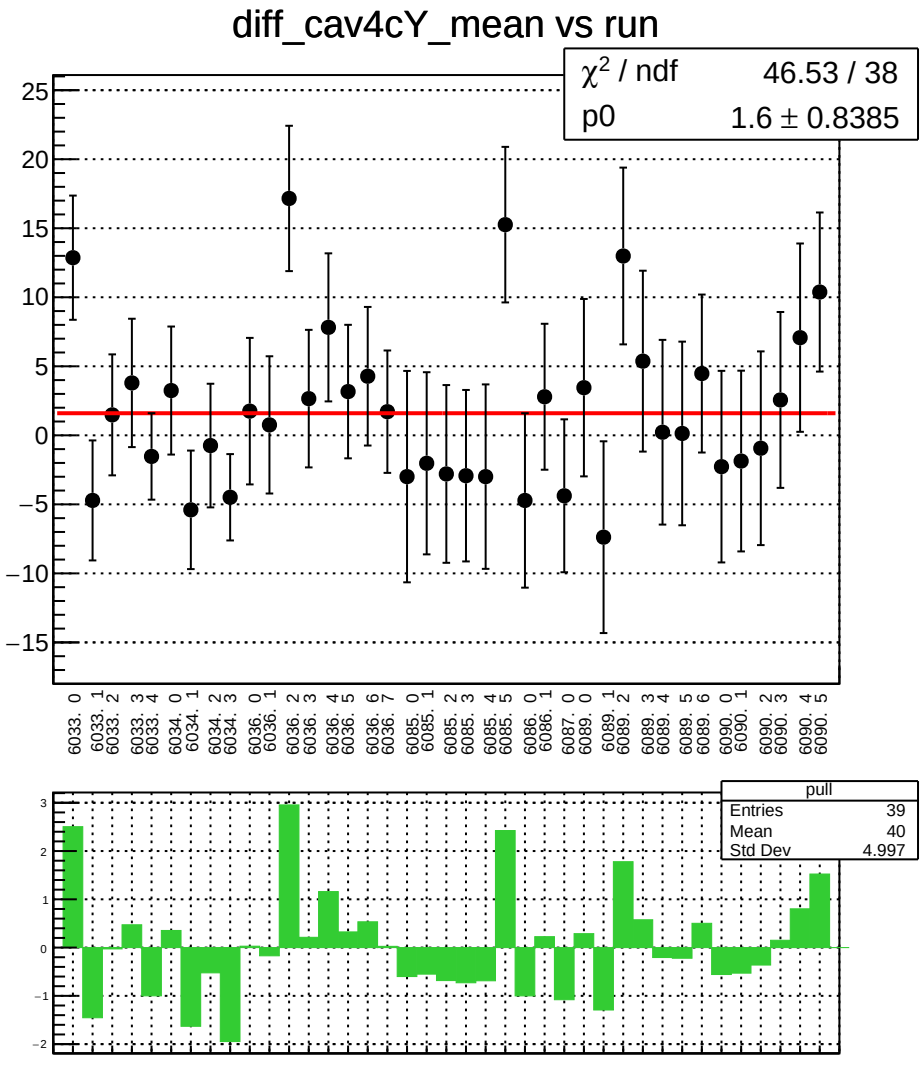

pull1D
Entries 39
Mean 0.03656
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

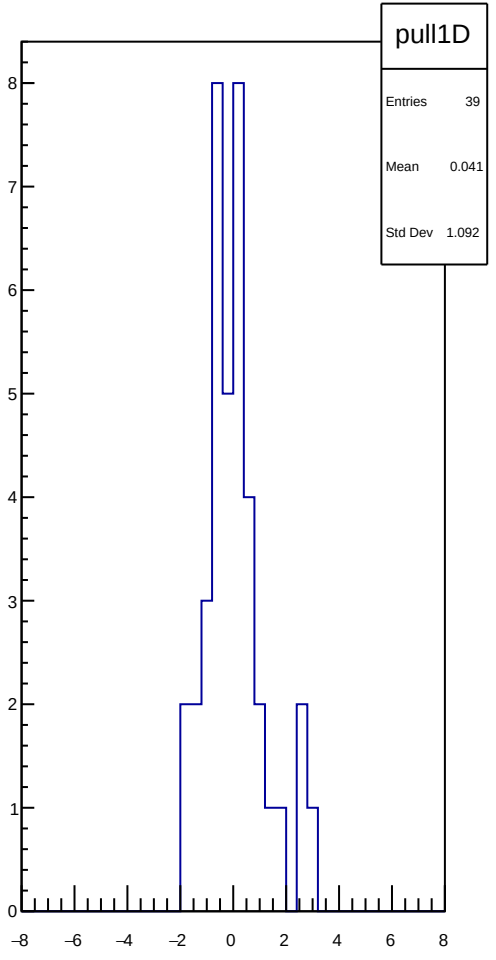

diff_cav4bY_rms vs run
χ² / ndf 2.022e+04 / 38
p0 4319 ± 4.984
6000
5500
5000
4500
4000
3500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

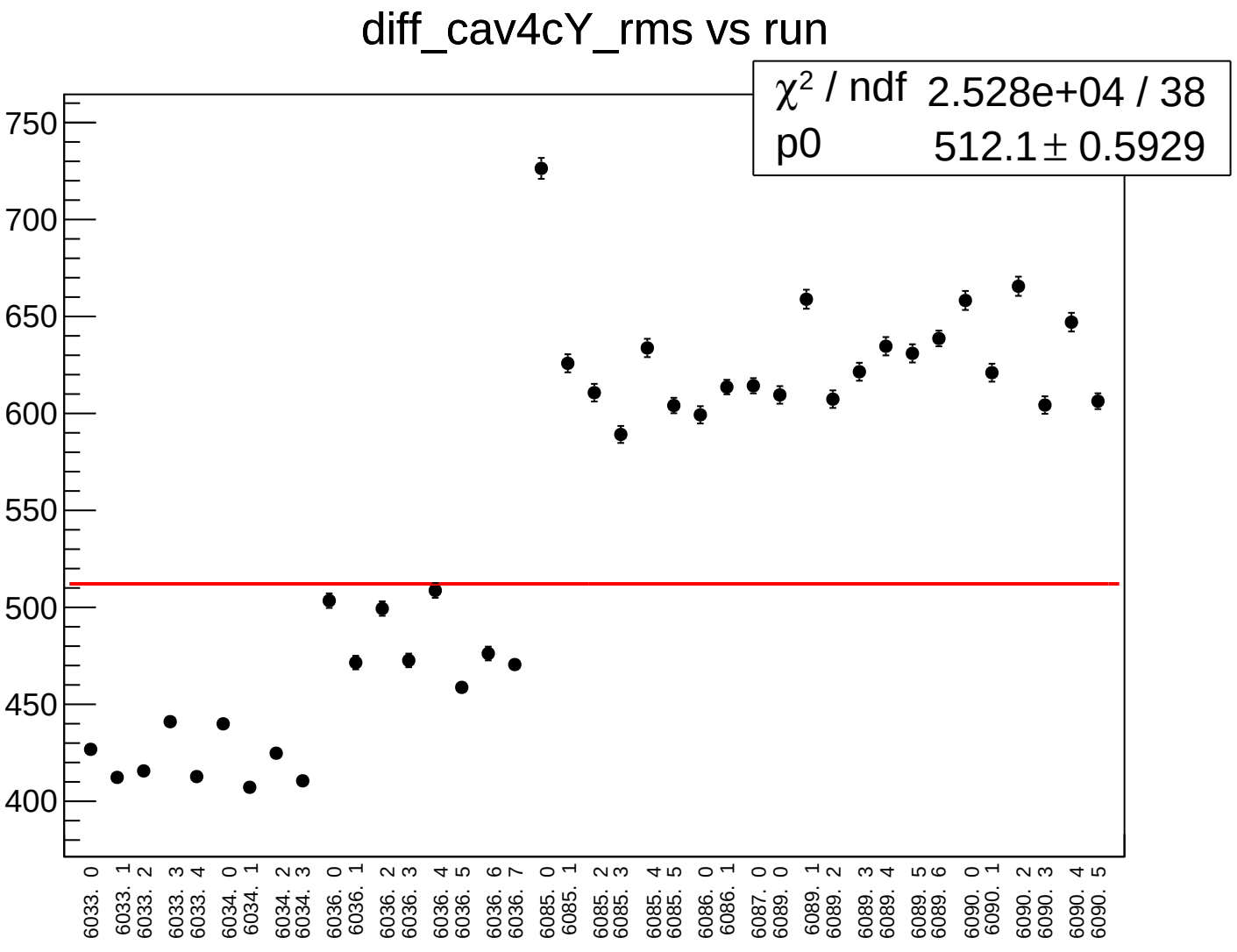

diff_cav4cX_mean vs run
χ² / ndf 34.35 / 38
p0 0.381 ± 1.834
40
30
20
10
0
−10
−20
−30
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 14.67
Std Dev 28.54
2
1
0
−1
−2

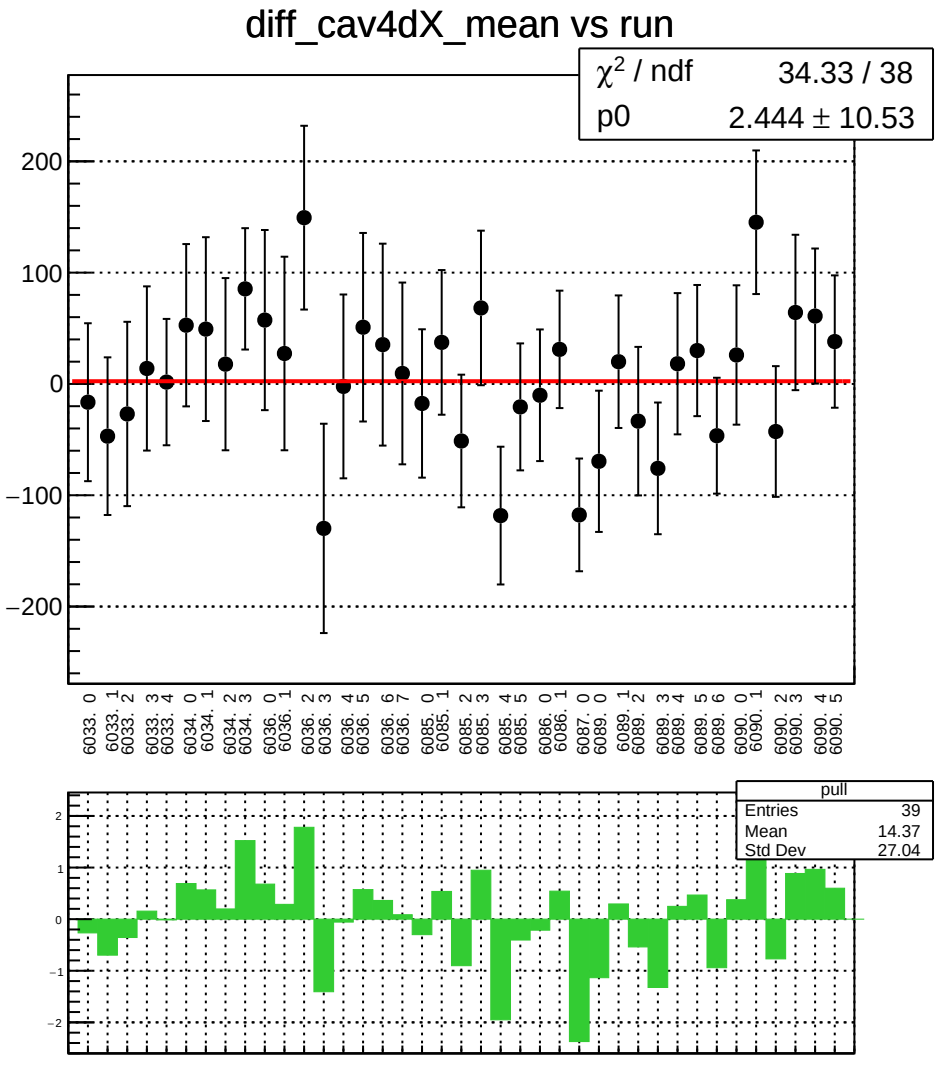

pull1D
Entries 39
Mean 0.03075
Std Dev 0.938
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

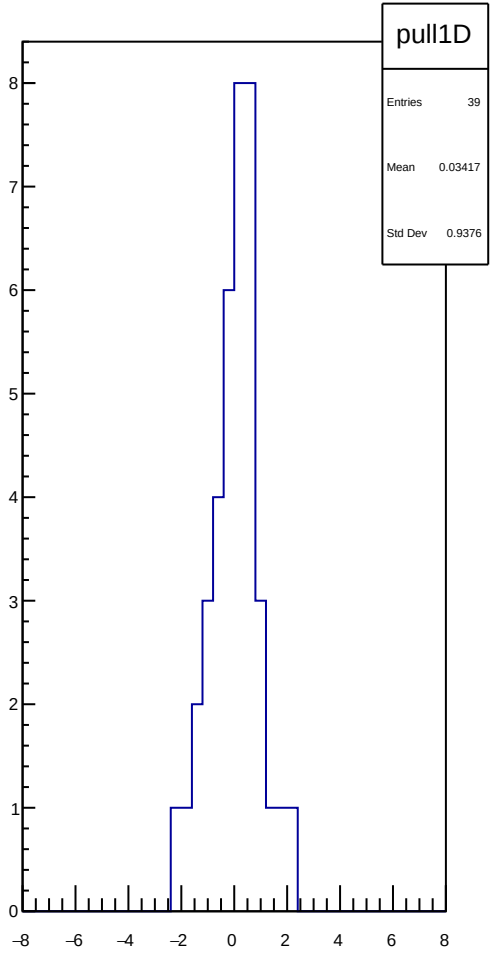

diff_cav4cX_rms vs run
χ² / ndf 1.201e+04 / 38
p0 1130 ± 1.297
1500
1400
1300
1200
1100
1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

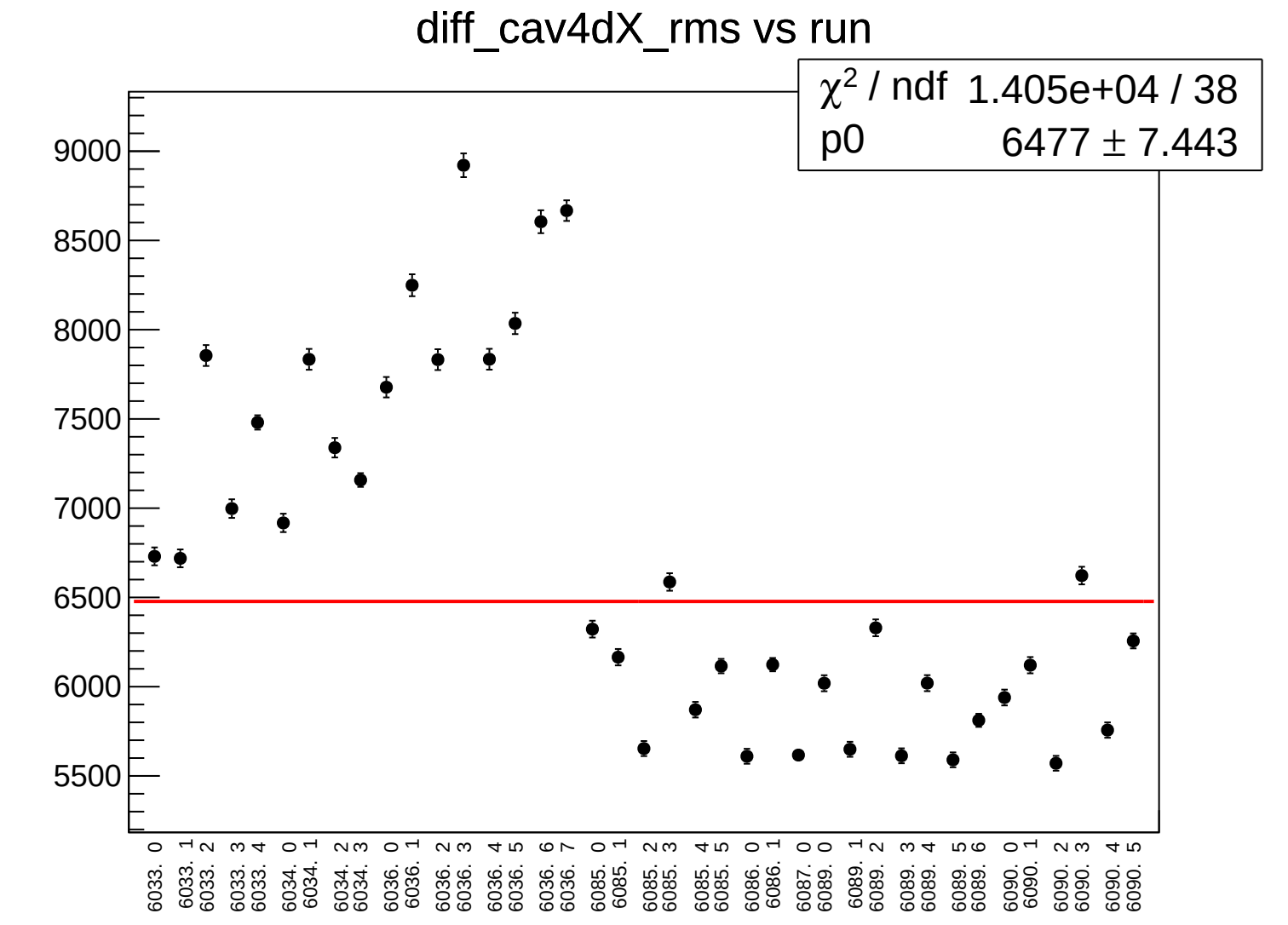

diff_cav4cY_mean vs run
χ² / ndf 46.53 / 38
p0 1.6 ± 0.8385
pull
Entries 39
Mean 40
Std Dev 4.997

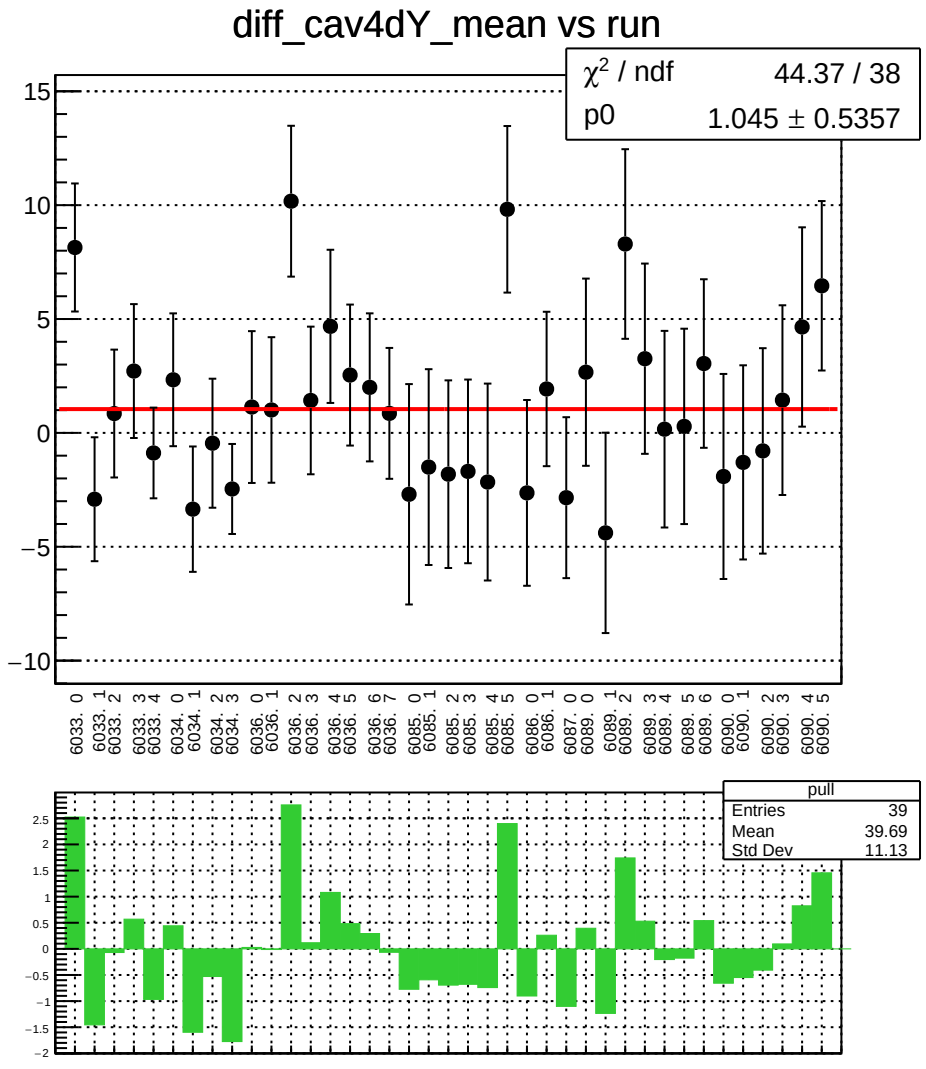

pull1D
Entries 39
Mean 0.041
Std Dev 1.092

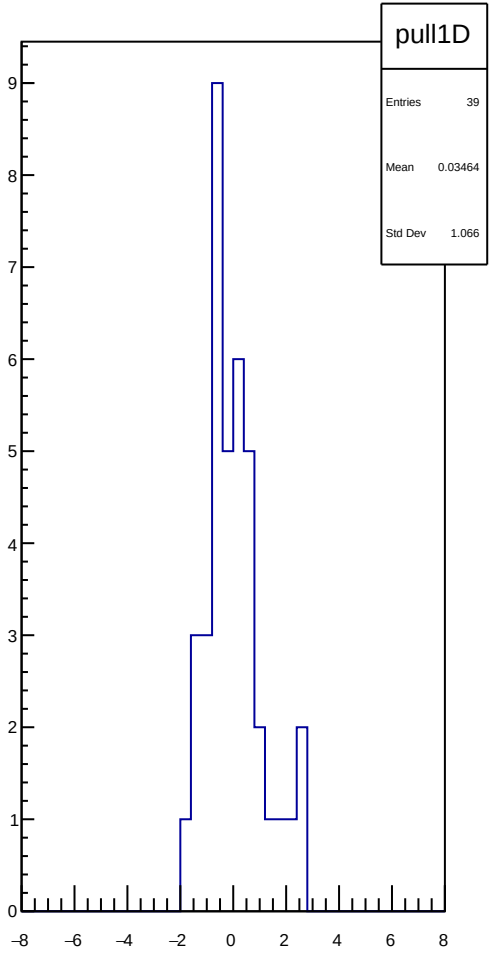

diff_cav4cY_rms vs run
χ² / ndf 2.528e+04 / 38
p0 512.1 ± 0.5929
750
700
650
600
550
500
450
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

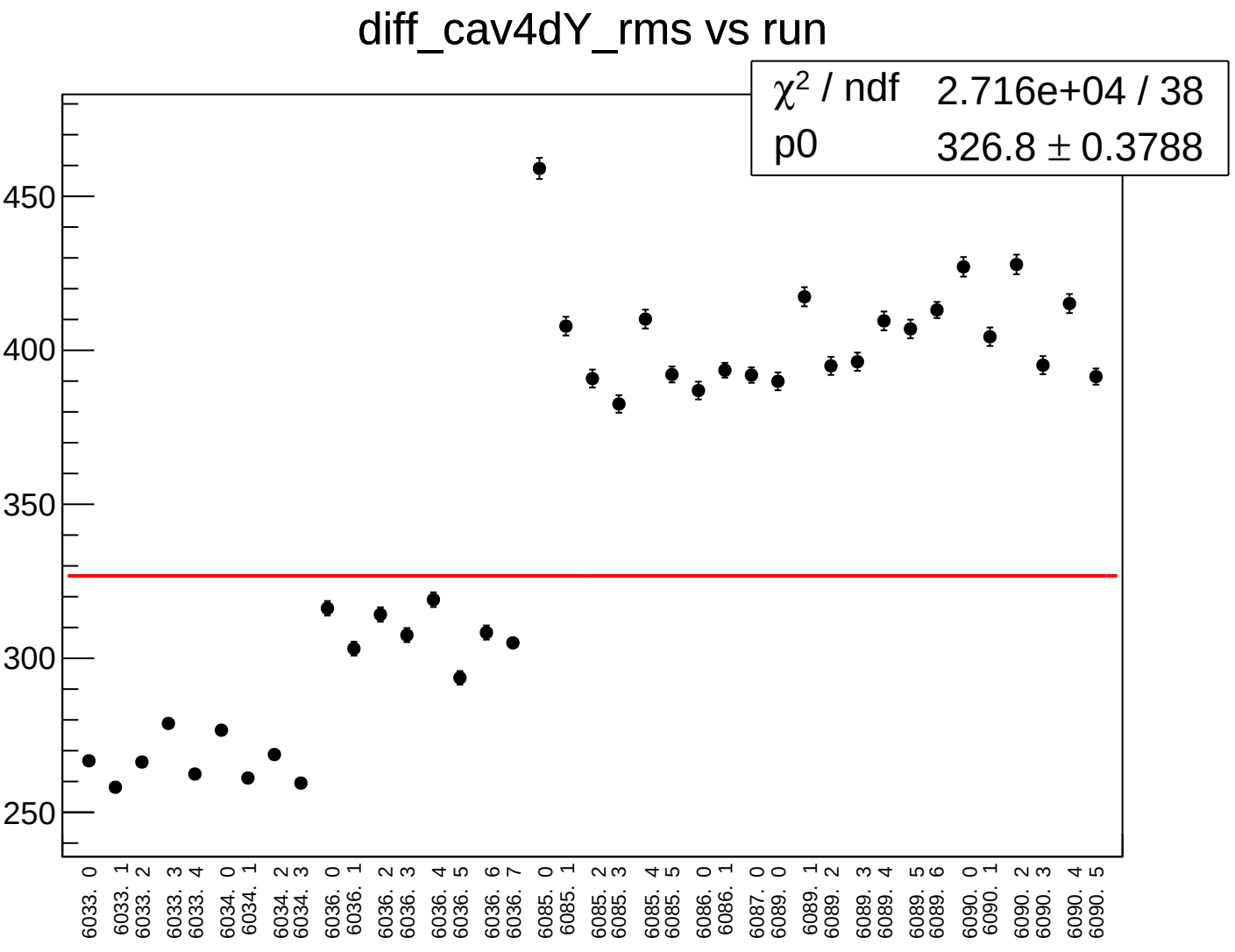

diff_cav4dX_mean vs run
χ² / ndf 34.33 / 38
p0 2.444 ± 10.53
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 14.37
Std Dev 27.04
2
1
0
−1
−2

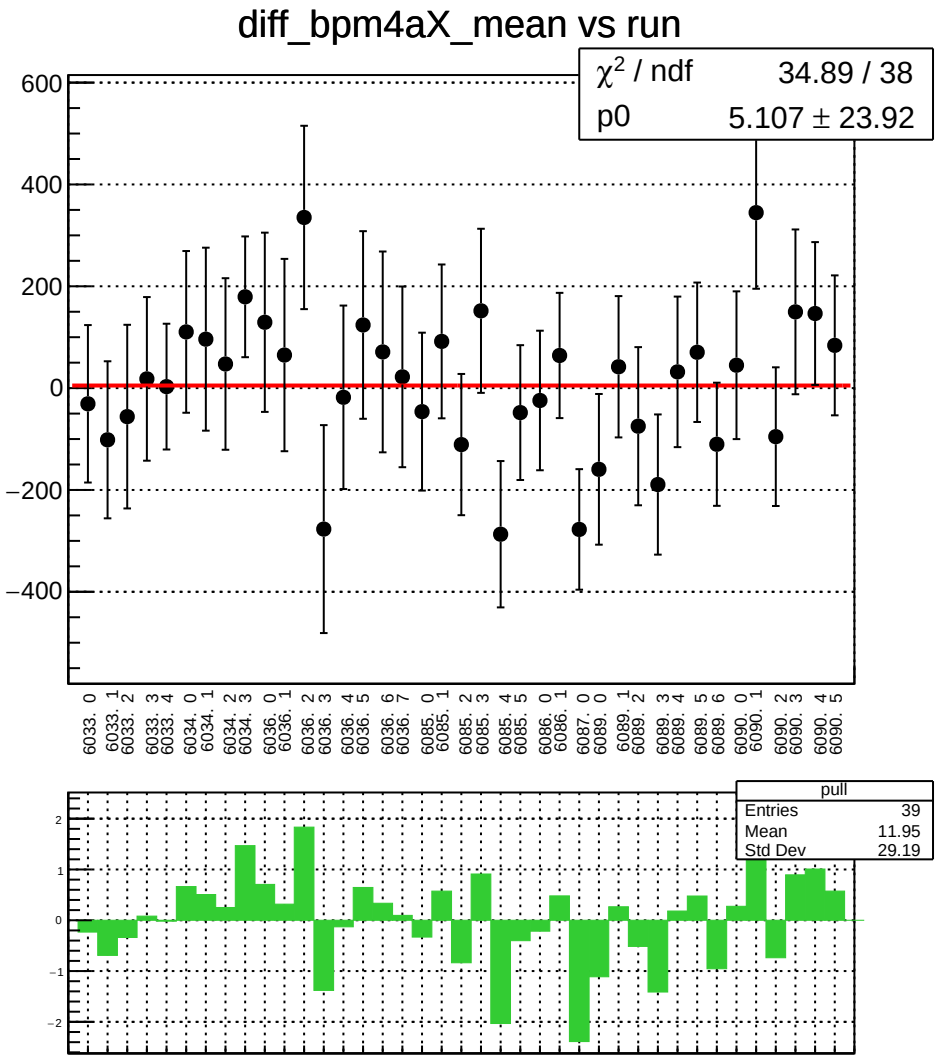

pull1D
Entries 39
Mean 0.03417
Std Dev 0.9376
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

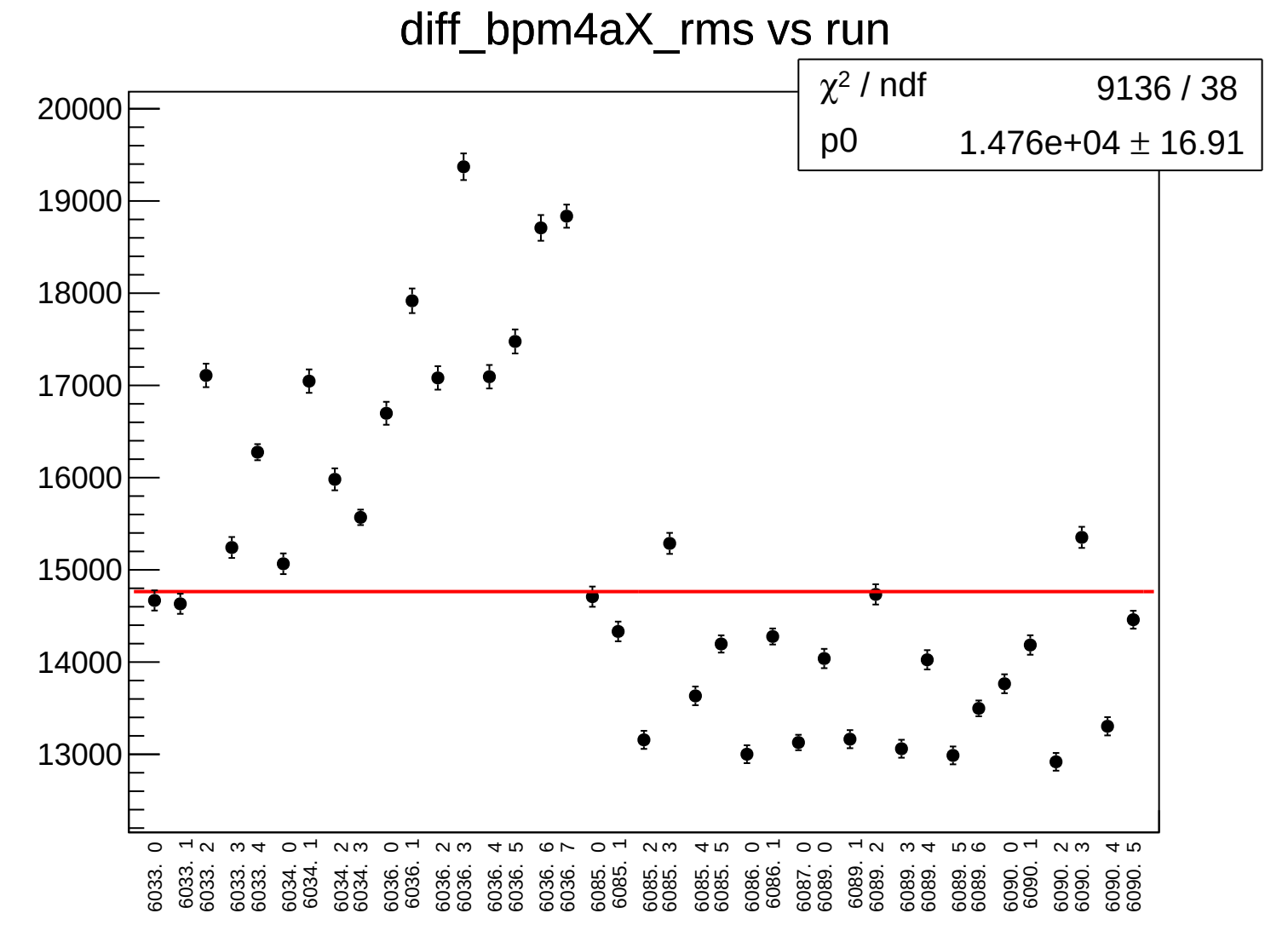

diff_cav4dX_rms vs run
χ² / ndf 1.405e+04 / 38
p0 6477 ± 7.443
9000
8500
8000
7500
7000
6500
6000
5500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

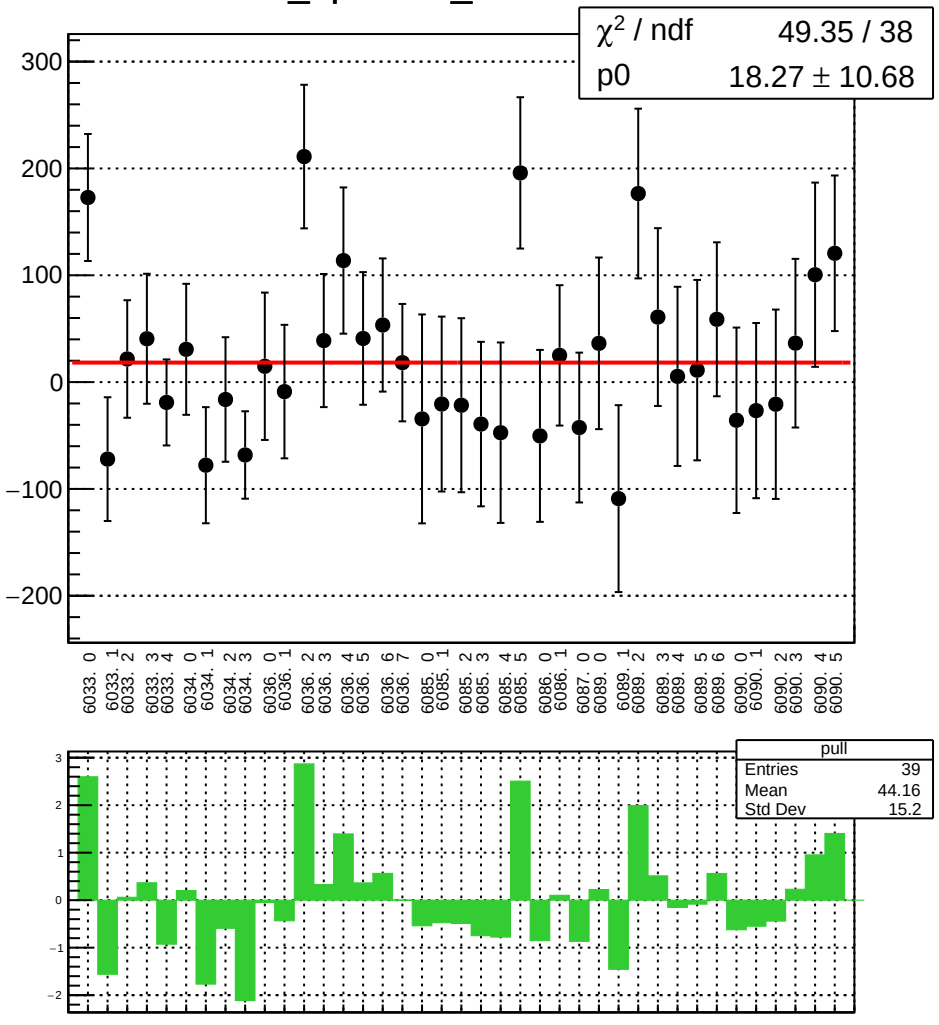

diff_cav4dY_mean vs run
χ² / ndf 44.37 / 38
p0 1.045 ± 0.5357
pull
Entries 39
Mean 39.69
Std Dev 11.13

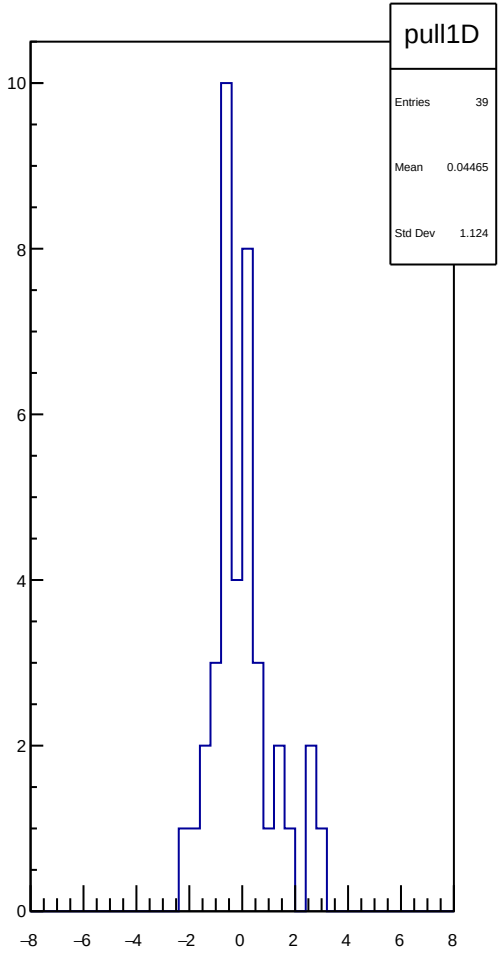

pull1D
Entries 39
Mean 0.03464
Std Dev 1.066

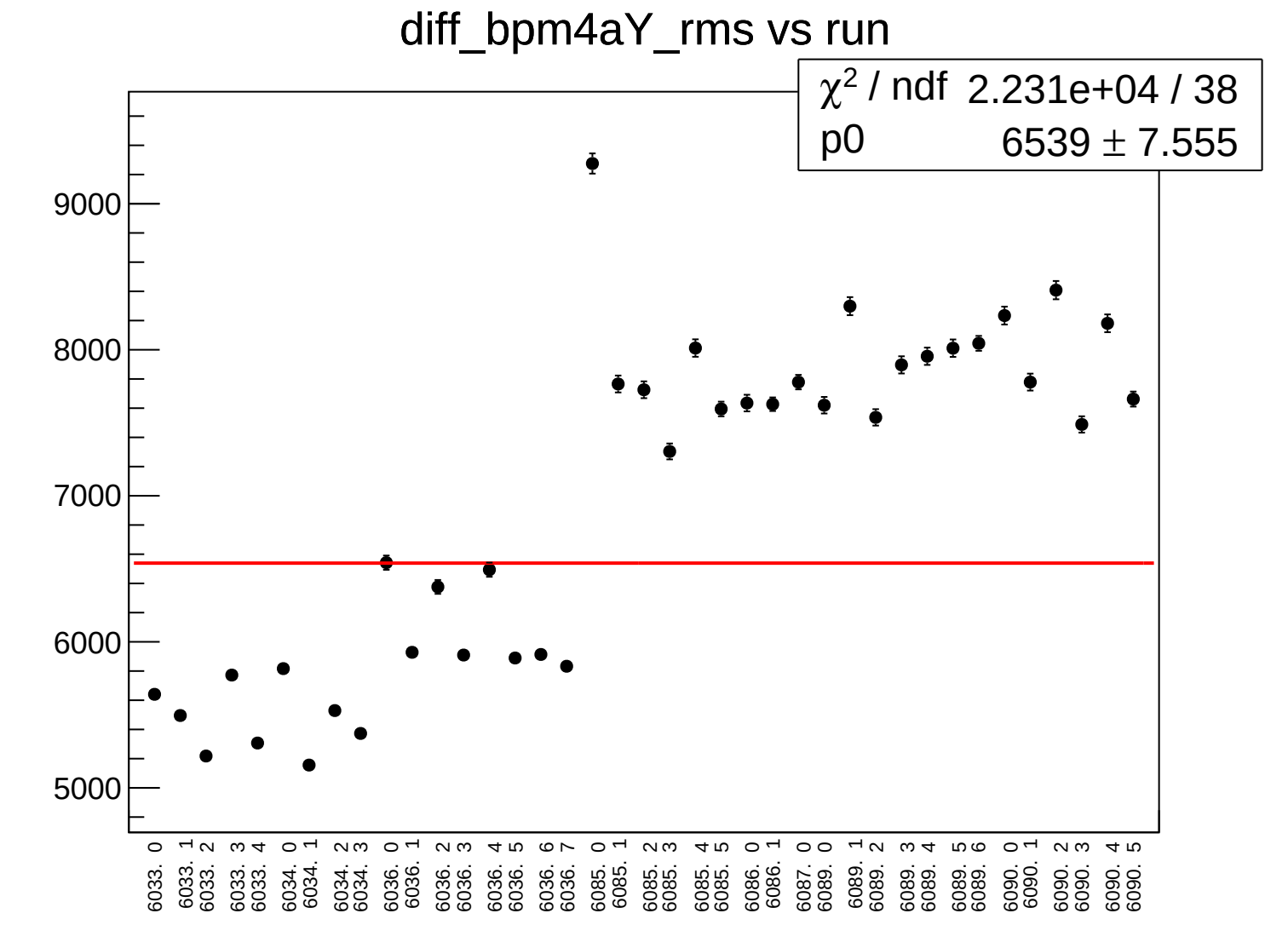

diff_cav4dY_rms vs run
χ² / ndf 2.716e+04 / 38
p0 326.8 ± 0.3788
450
400
350
300
250
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

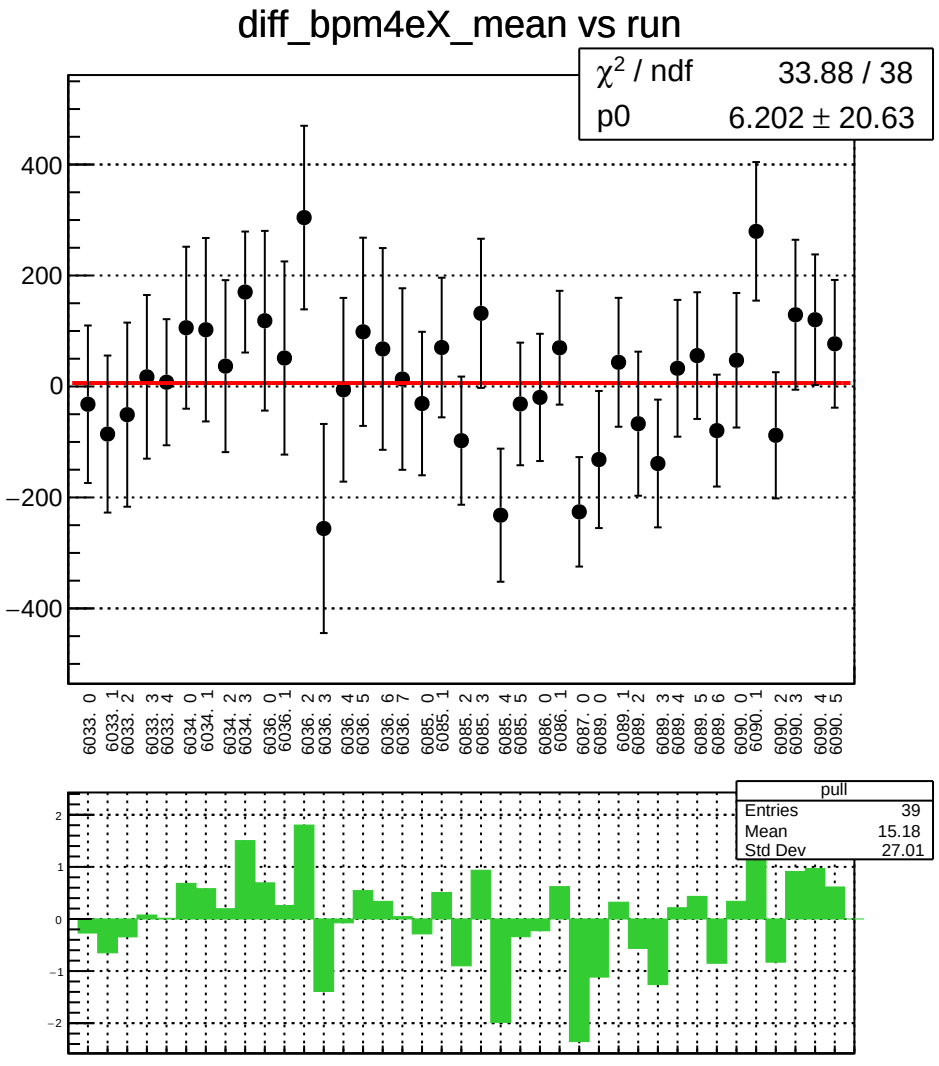

diff_bpm4aX_mean vs run
χ² / ndf 34.89 / 38
p0 5.107 ± 23.92
600
400
200
0
−200
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.95
Std Dev 29.19
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.02801
Std Dev 0.9454
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

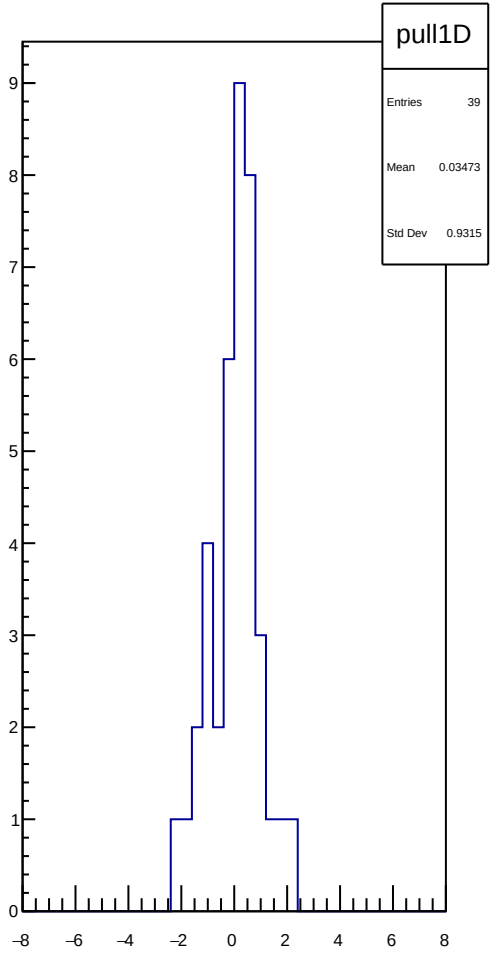

diff_bpm4aX_rms vs run
χ² / ndf 9136 / 38
p0 1.476e+04 ± 16.91
20000
19000
18000
17000
16000
15000
14000
13000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

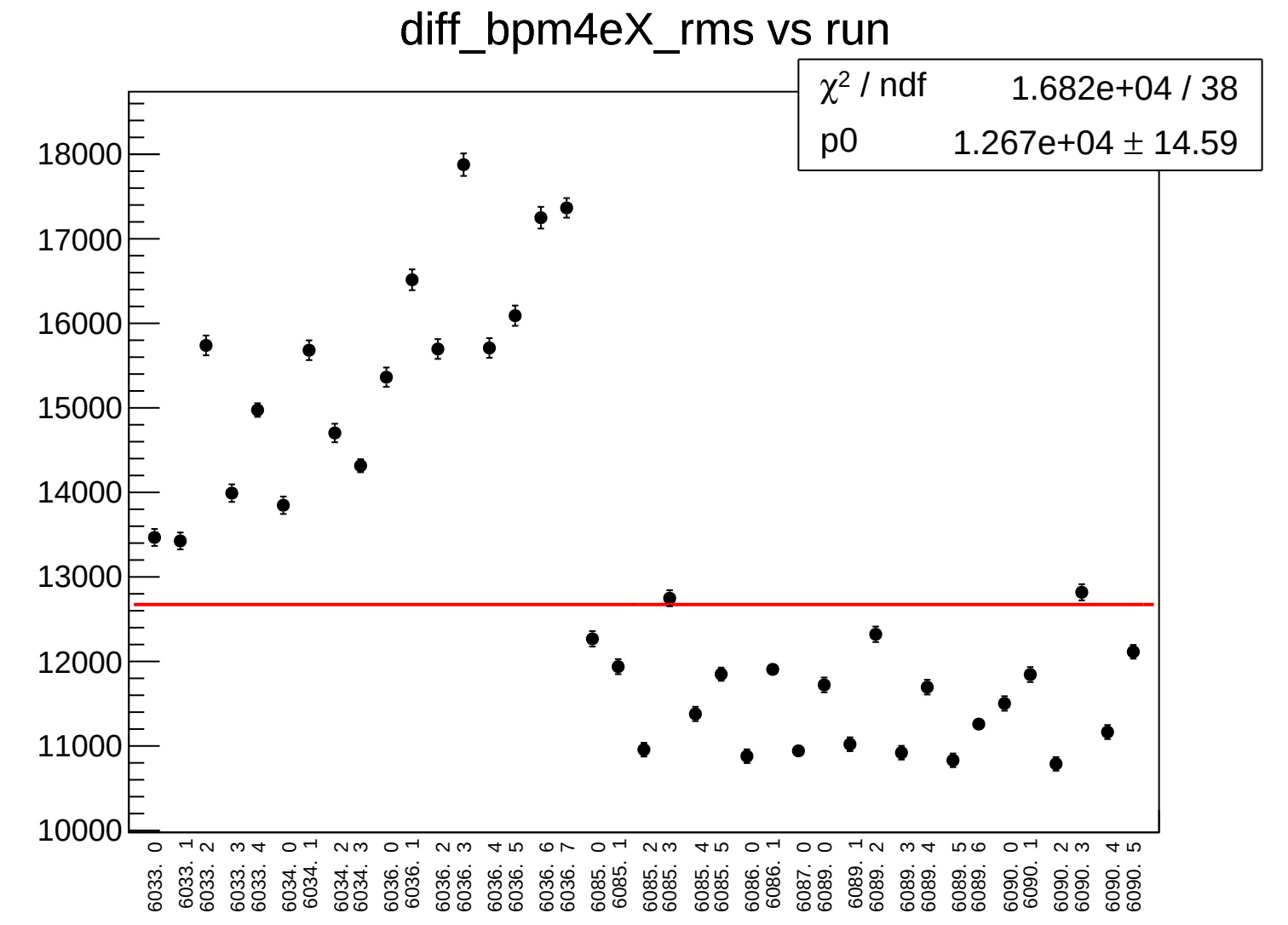

diff_bpm4aY_mean vs run
χ² / ndf 49.35 / 38
p0 18.27 ± 10.68
300
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 44.16
Std Dev 15.2
3
2
1
0
−1
−2

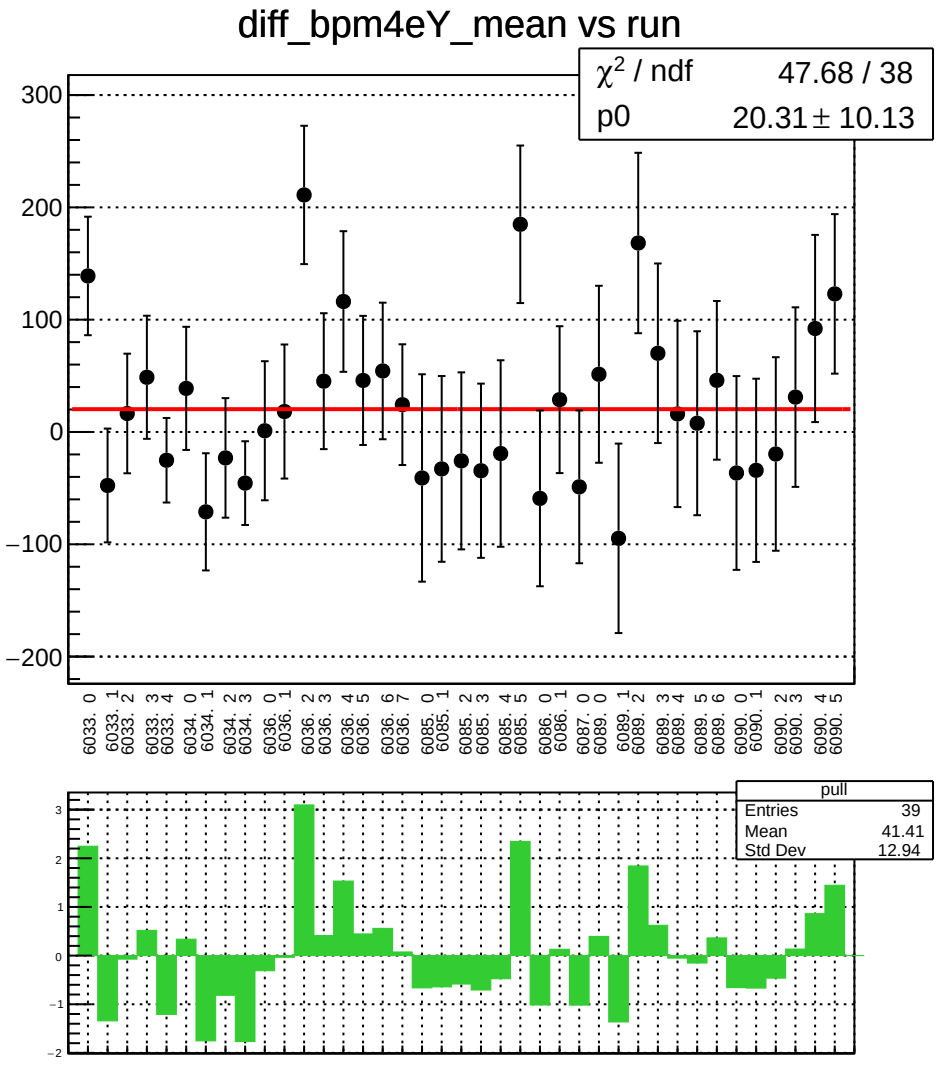

pull1D
Entries 39
Mean 0.04465
Std Dev 1.124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

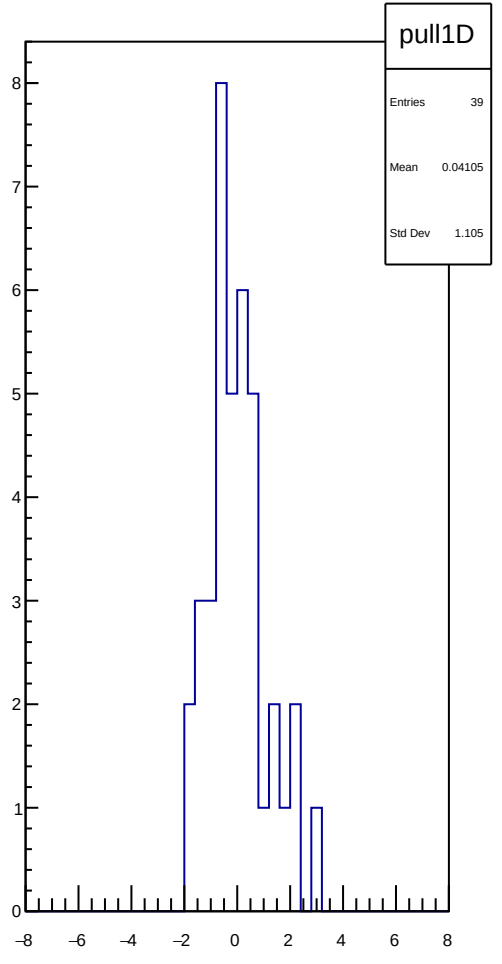

diff_bpm4aY_rms vs run
χ² / ndf 2.231e+04 / 38
p0 6539 ± 7.555
9000
8000
7000
6000
5000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

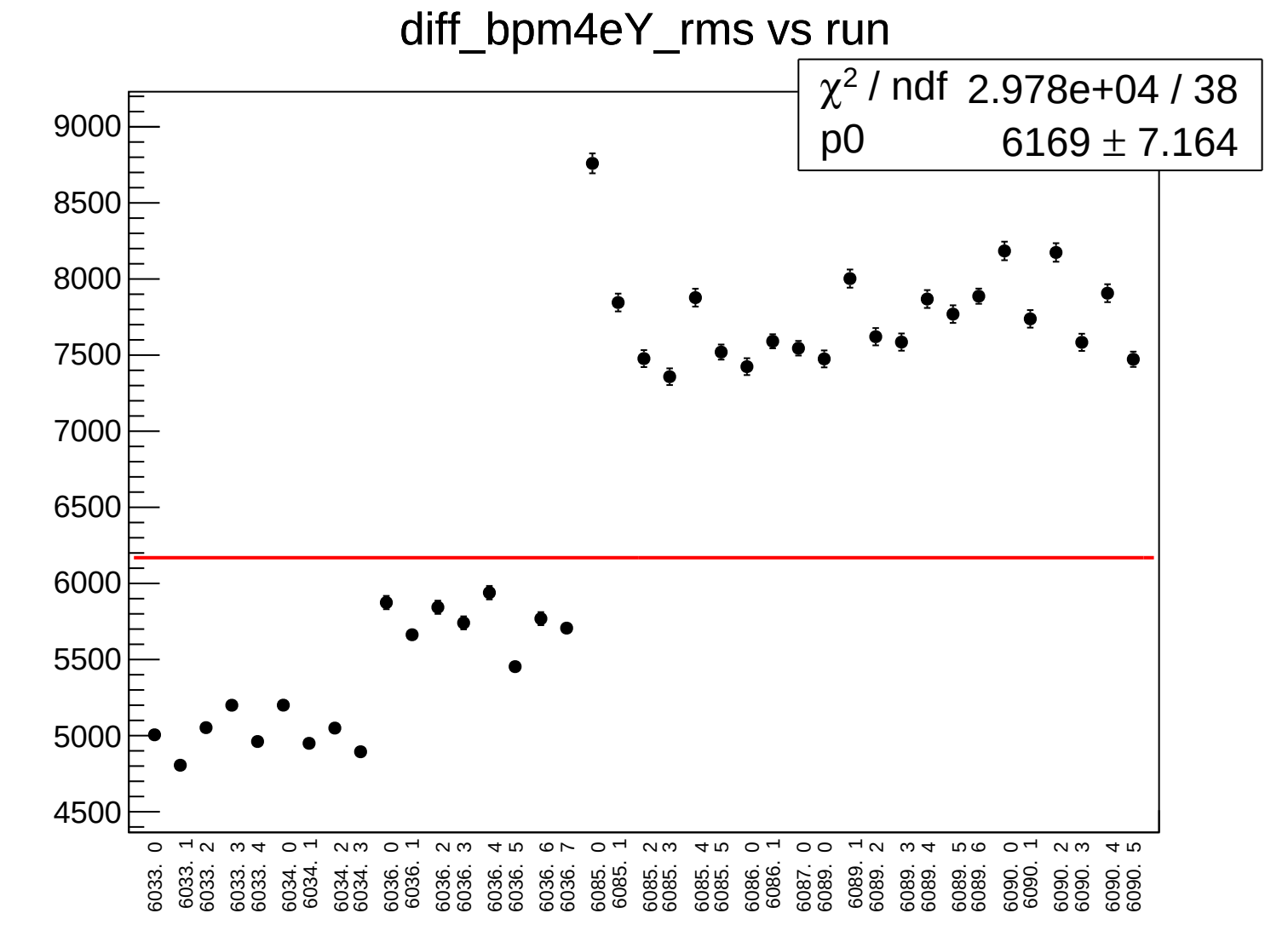

diff_bpm4eX_mean vs run
χ² / ndf 33.88 / 38
p0 6.202 ± 20.63
400
200
0
−200
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 15.18
Std Dev 27.01
2
1
0
−1
−2

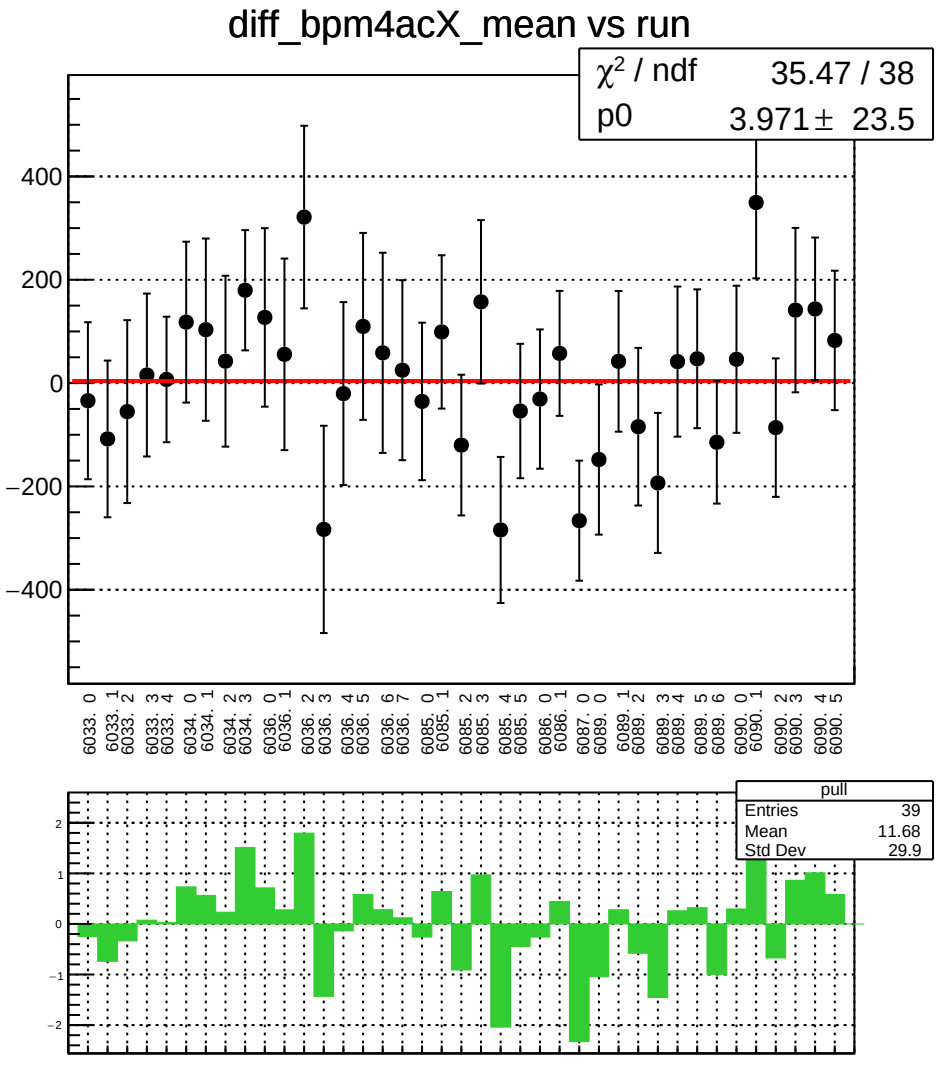

pull1D
Entries 39
Mean 0.03473
Std Dev 0.9315
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

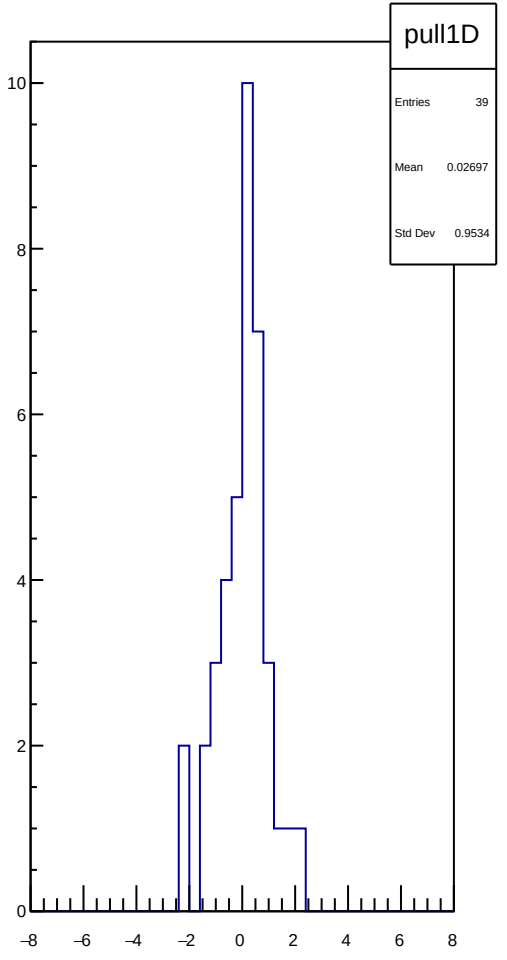

diff_bpm4eX_rms vs run
χ² / ndf 1.682e+04 / 38
p0 1.267e+04 ± 14.59
18000
17000
16000
15000
14000
13000
12000
11000
10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

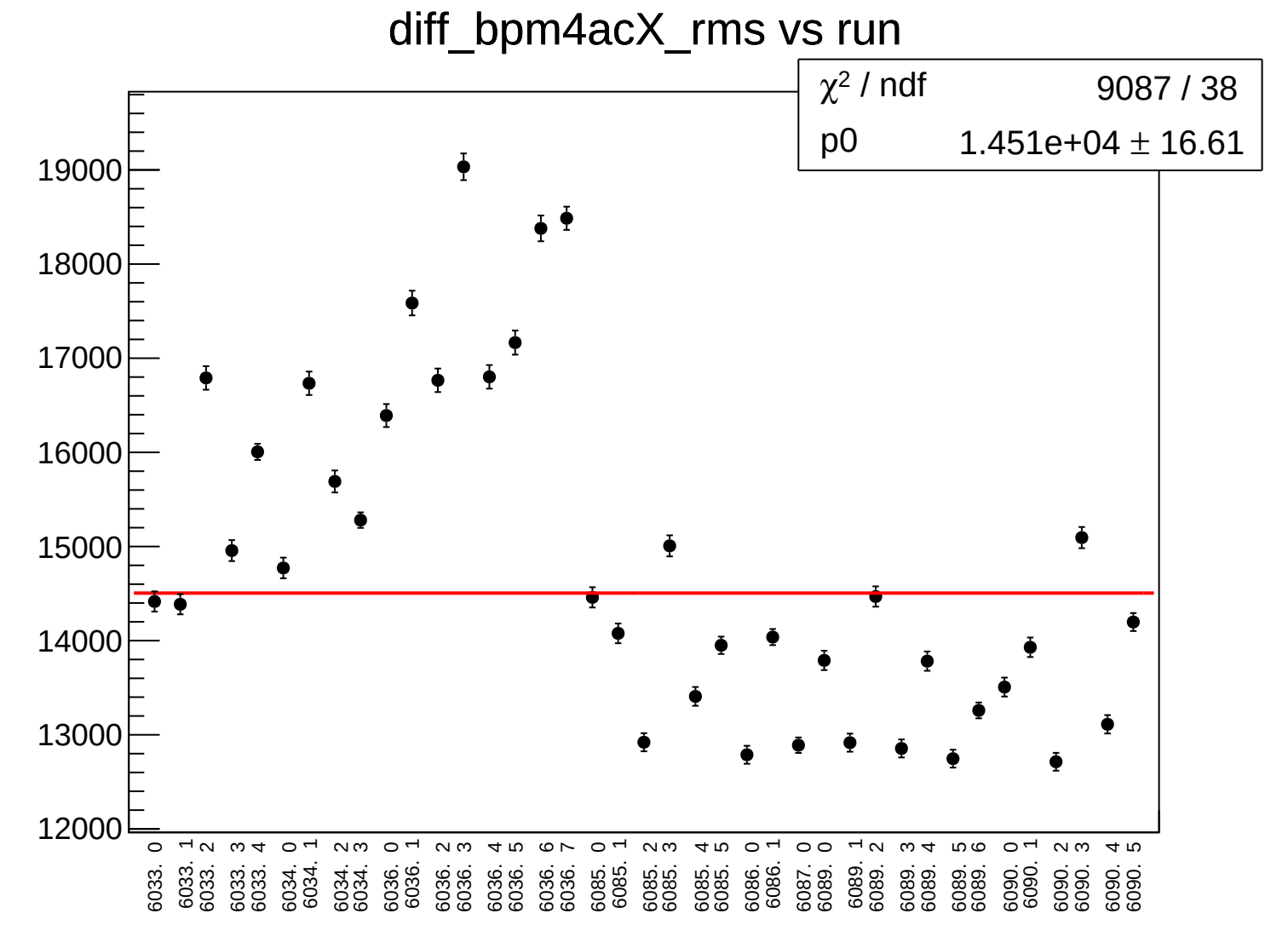

diff_bpm4eY_mean vs run
χ² / ndf 47.68 / 38
p0 20.31 ± 10.13
300
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 41.41
Std Dev 12.94
3
2
1
0
−1
−2

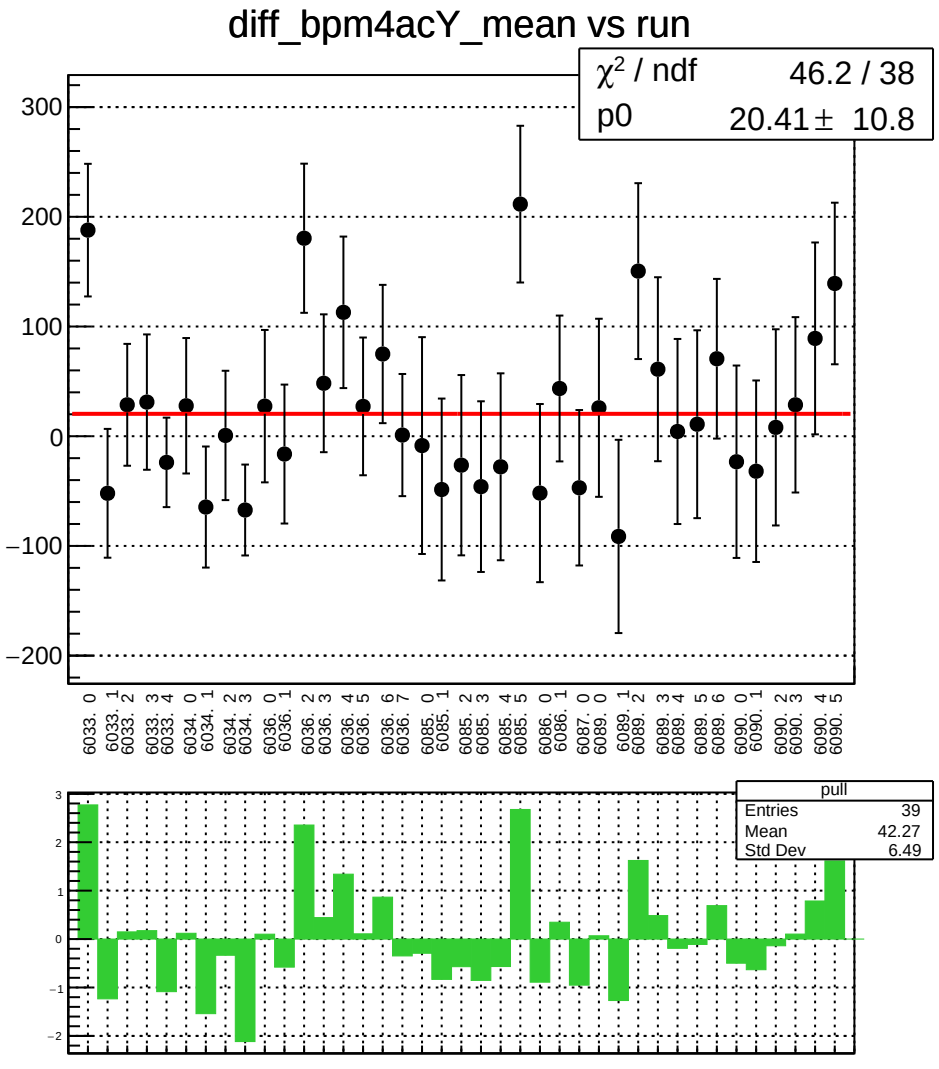

pull1D
Entries 39
Mean 0.04105
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

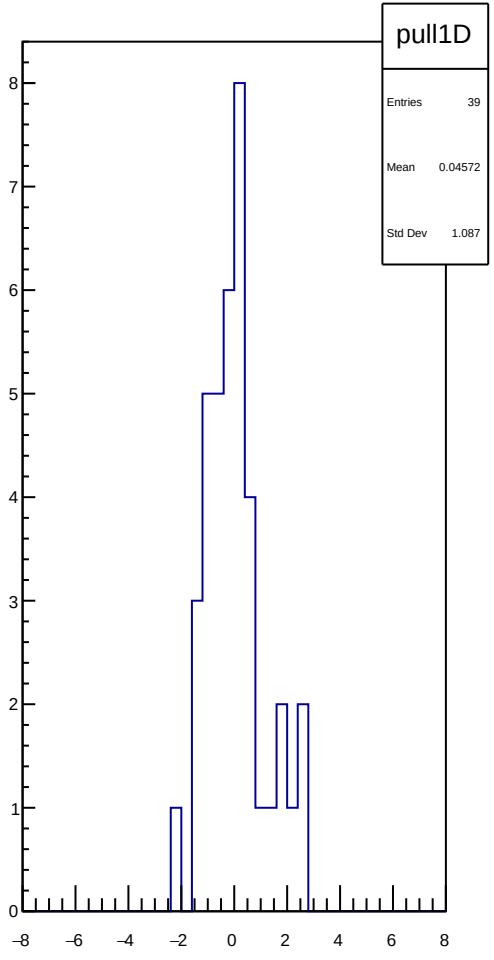

diff_bpm4eY_rms vs run
χ² / ndf 2.978e+04 / 38
p0 6169 ± 7.164
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

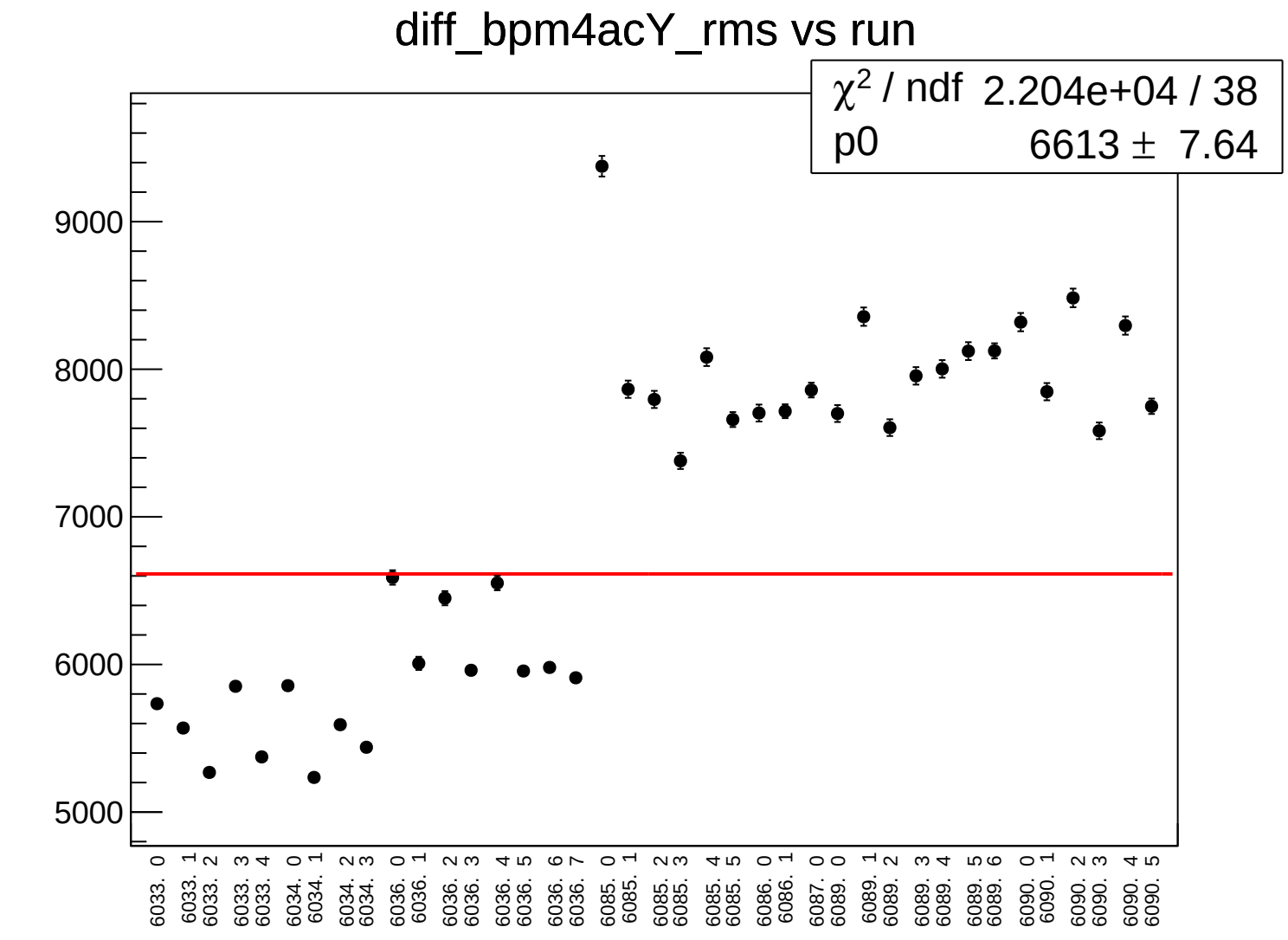

diff_bpm4acX_mean vs run
χ² / ndf 35.47 / 38
p0 3.971 ± 23.5
400
200
0
−200
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.68
Std Dev 29.9
2
1
0
−1
−2

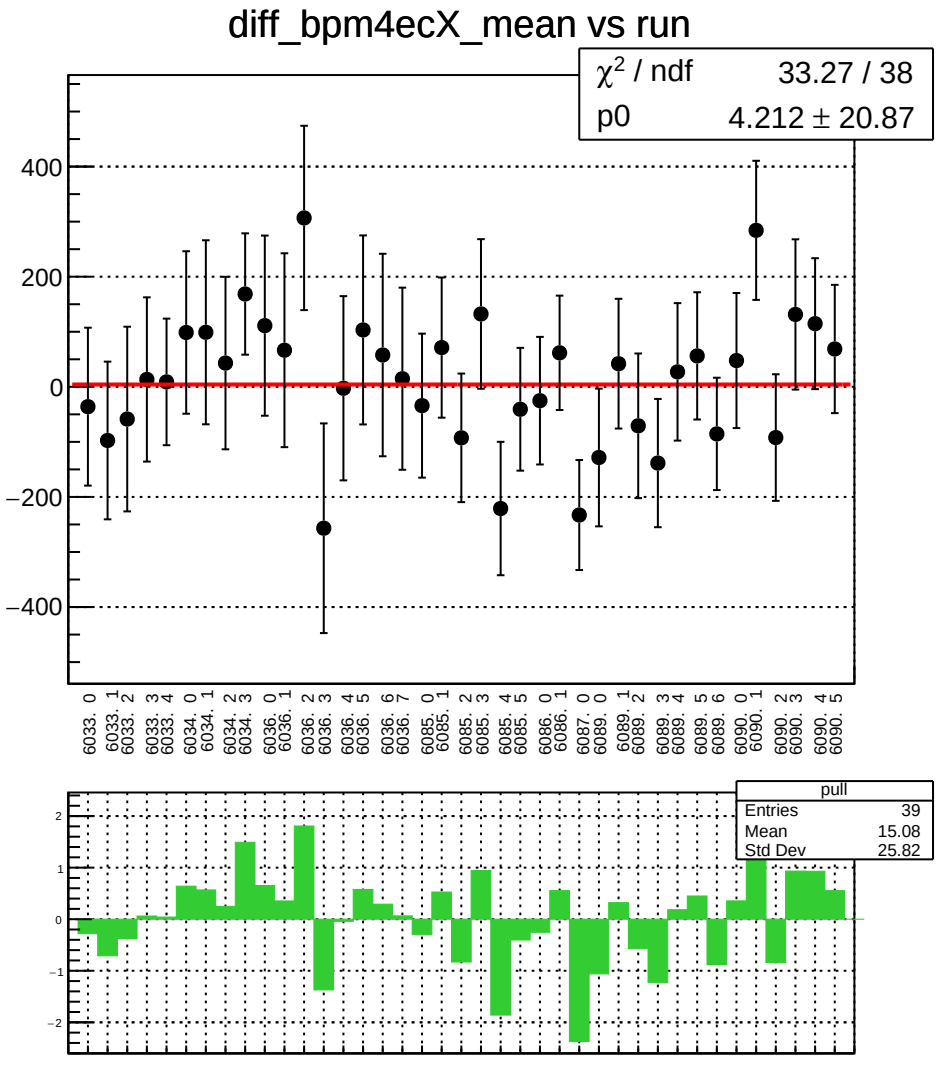

pull1D
Entries 39
Mean 0.02697
Std Dev 0.9534
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

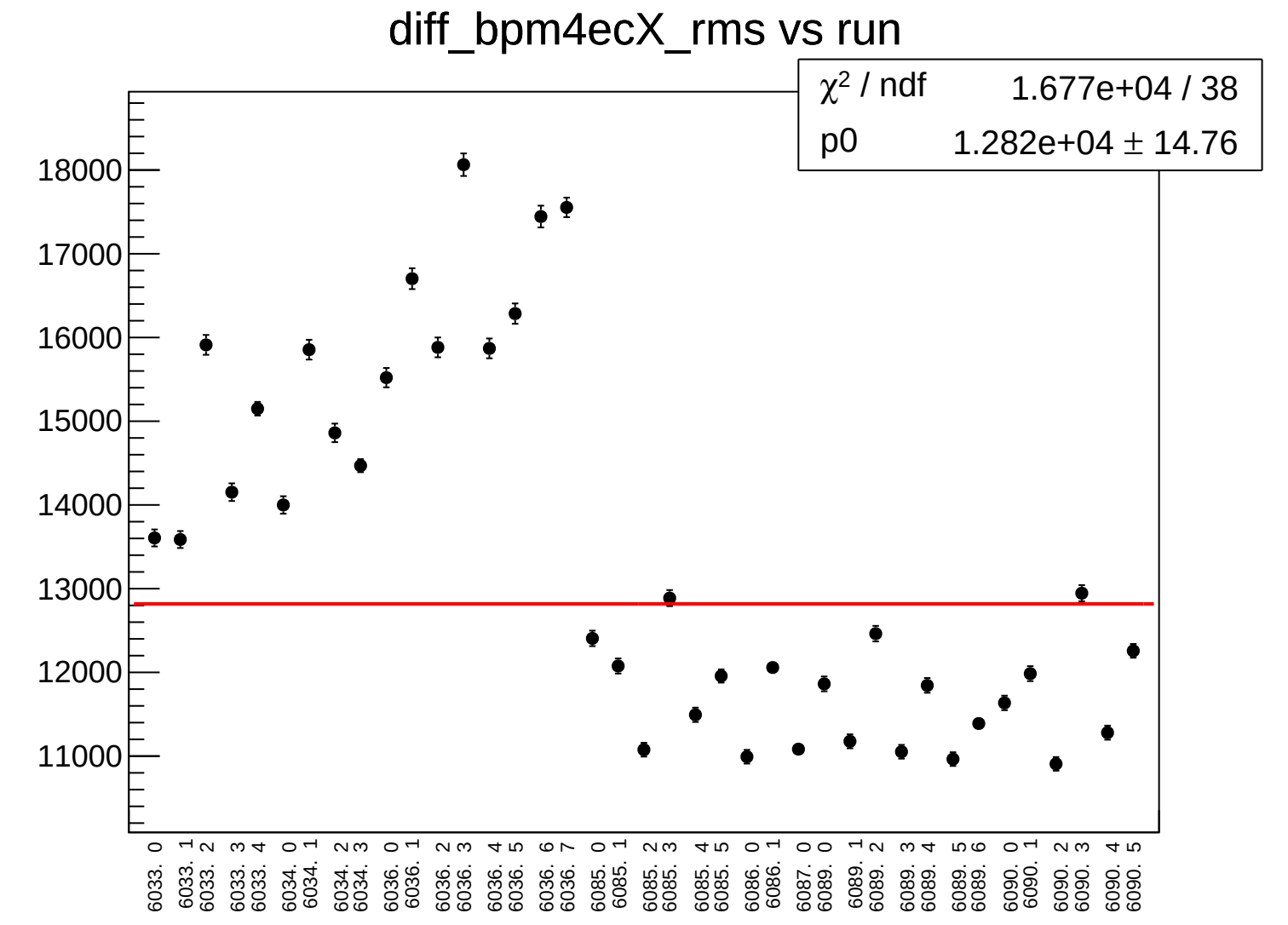

diff_bpm4acX_rms vs run
χ² / ndf 9087 / 38
p0 1.451e+04 ± 16.61
19000
18000
17000
16000
15000
14000
13000
12000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

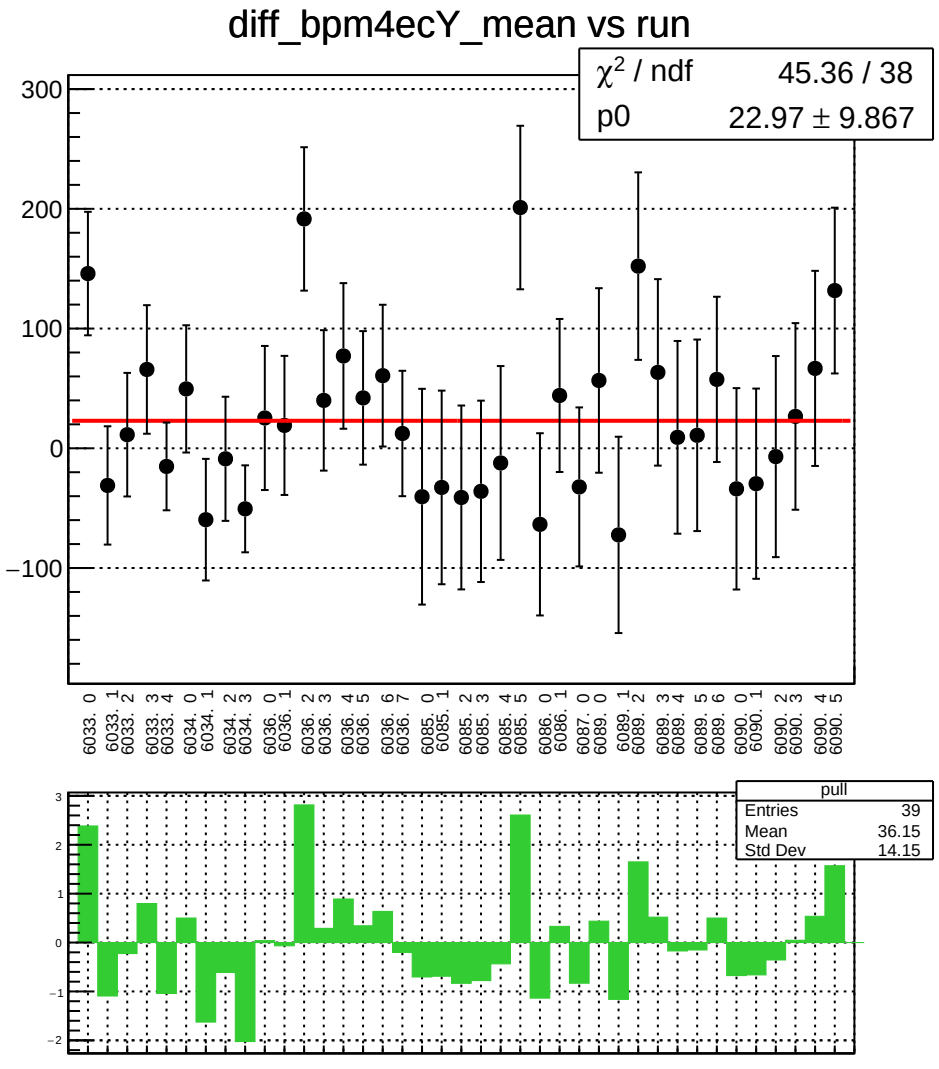

diff_bpm4acY_mean vs run
χ² / ndf 46.2 / 38
p0 20.41 ± 10.8
300
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 42.27
Std Dev 6.49
3
2
1
0
−1
−2

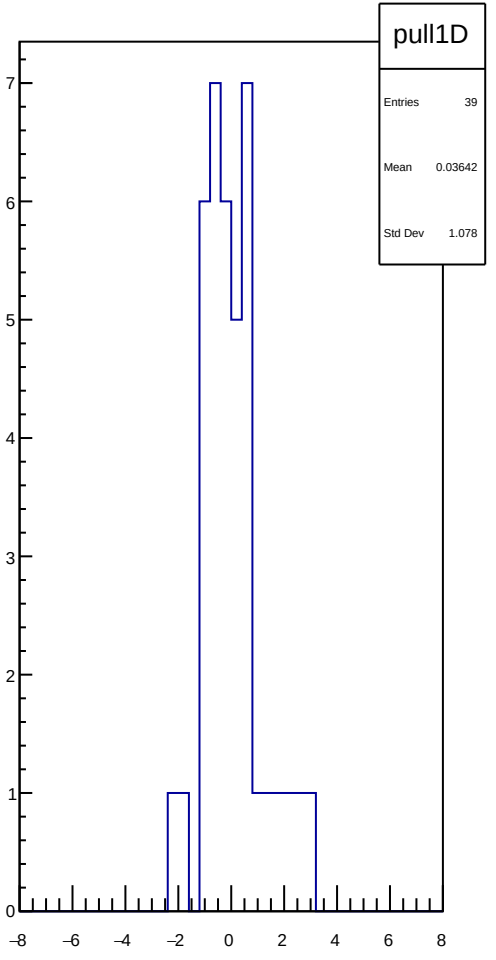

pull1D
Entries 39
Mean 0.04572
Std Dev 1.087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

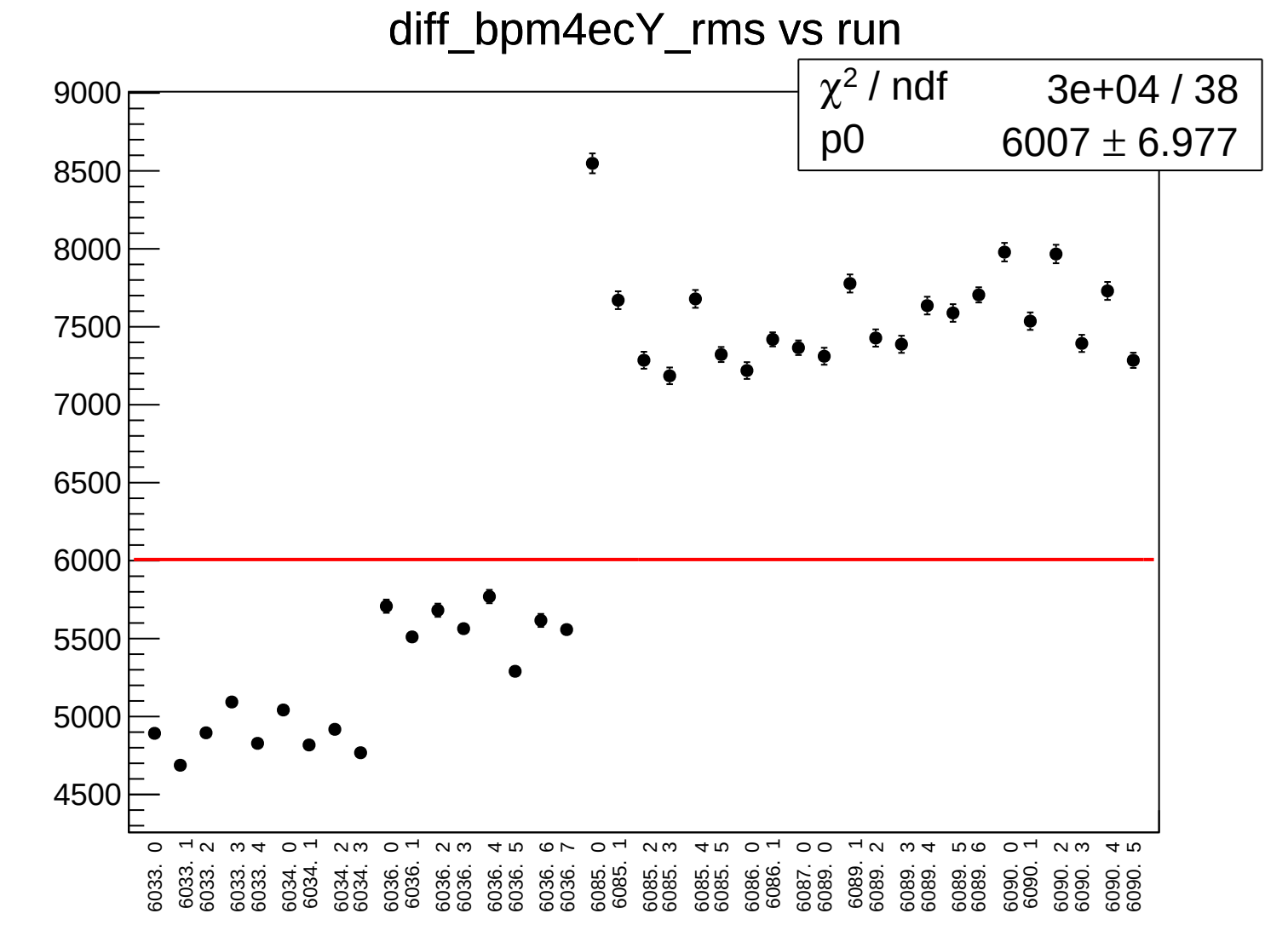

diff_bpm4acY_rms vs run
χ² / ndf 2.204e+04 / 38
p0 6613 ± 7.64
9000
8000
7000
6000
5000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

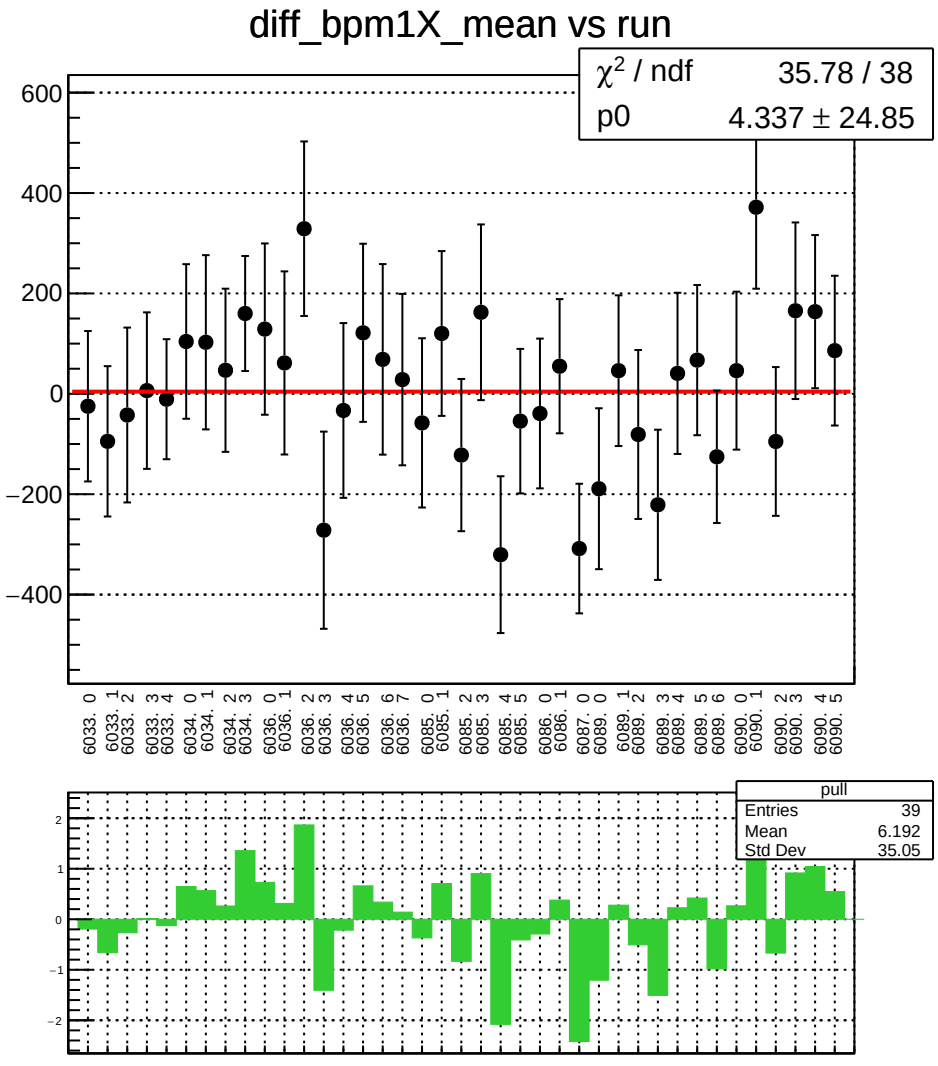

diff_bpm4ecX_mean vs run
χ^2 / ndf 33.27 / 38
p0 4.212 ± 20.87
400
200
0
−200
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 15.08
Std Dev 25.82
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03586
Std Dev 0.923
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

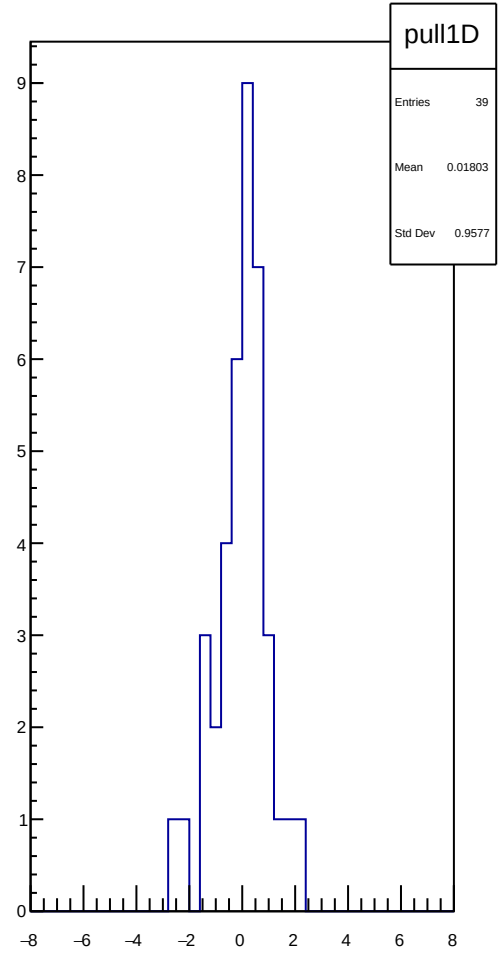

diff_bpm4ecX_rms vs run
χ² / ndf 1.677e+04 / 38
p0 1.282e+04 ± 14.76
18000
17000
16000
15000
14000
13000
12000
11000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

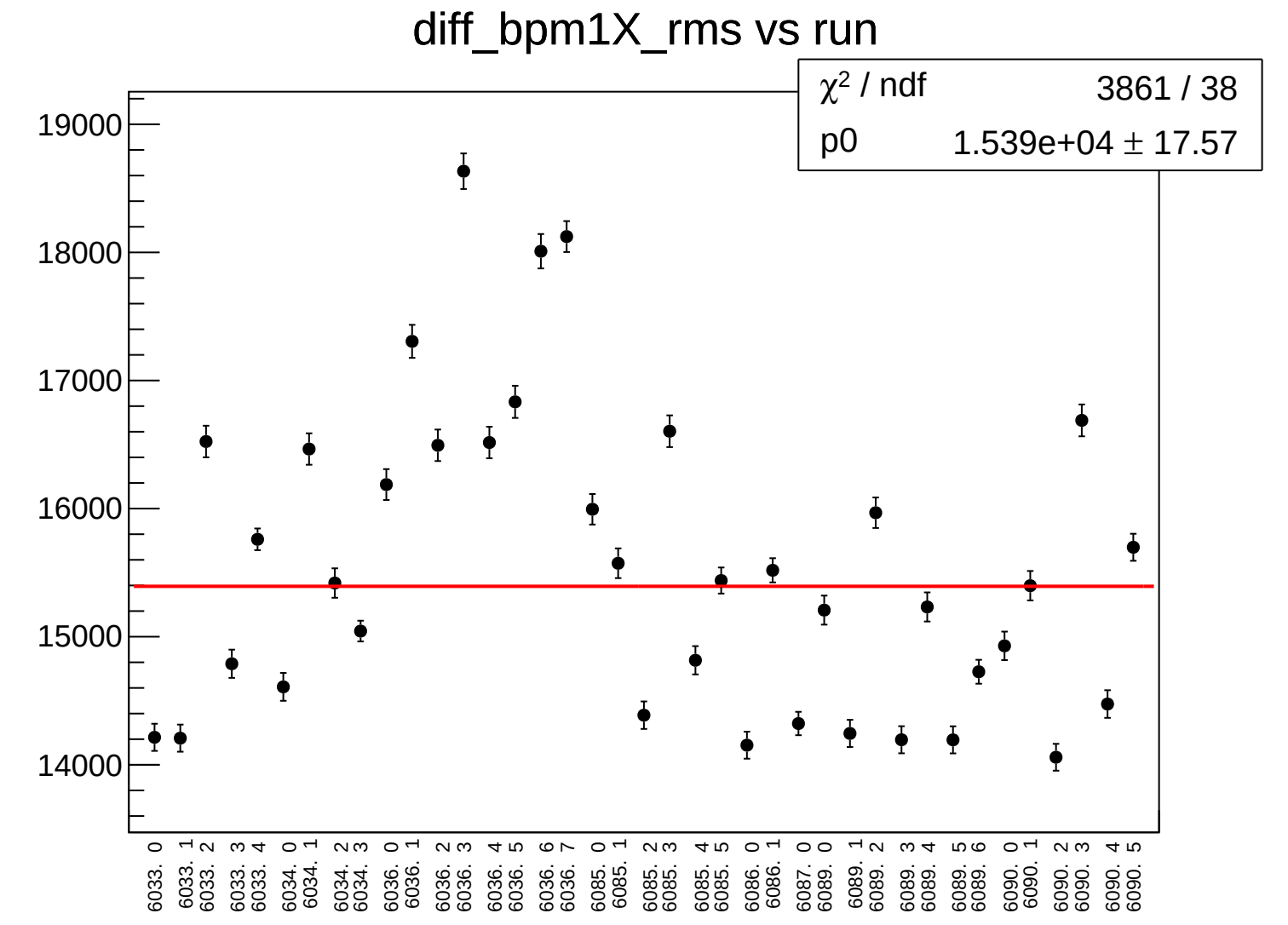

diff_bpm4ecY_mean vs run
χ² / ndf 45.36 / 38
p0 22.97 ± 9.867
300
200
100
0
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.15
Std Dev 14.15
3
2
1
0
−1
−2

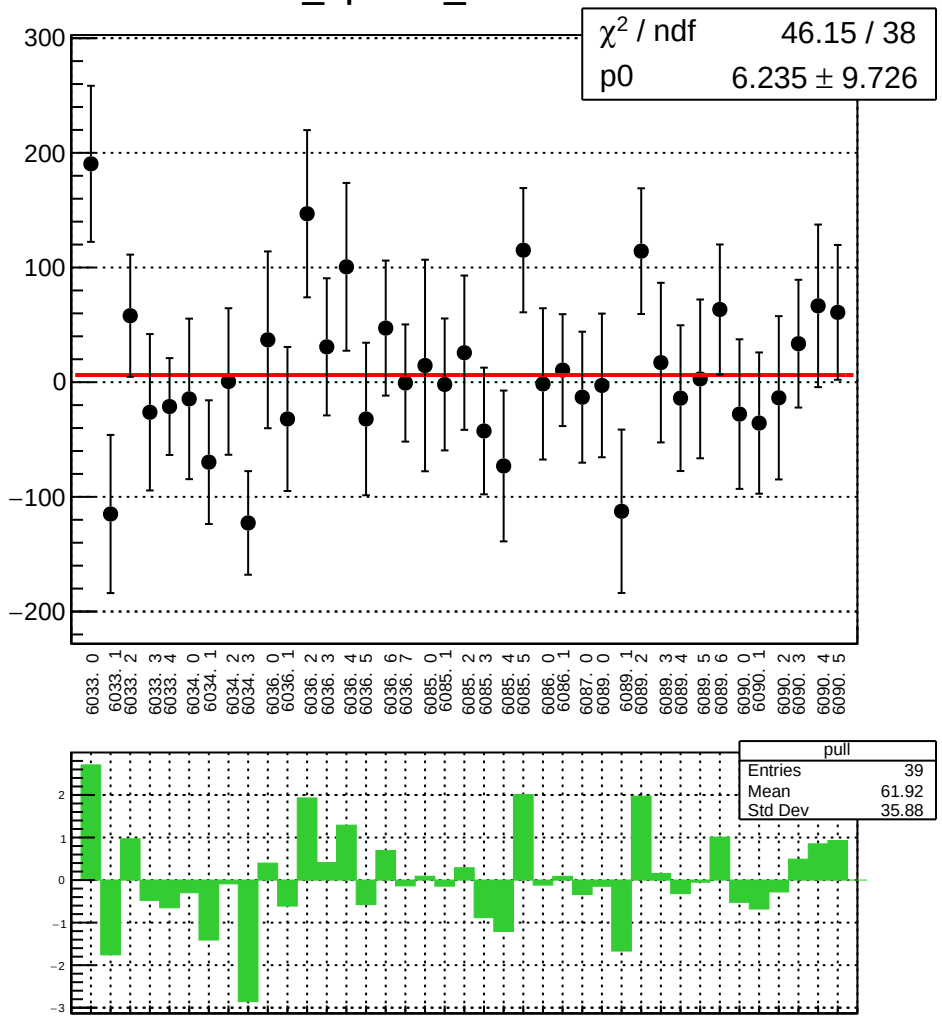

pull1D
Entries 39
Mean 0.03642
Std Dev 1.078
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

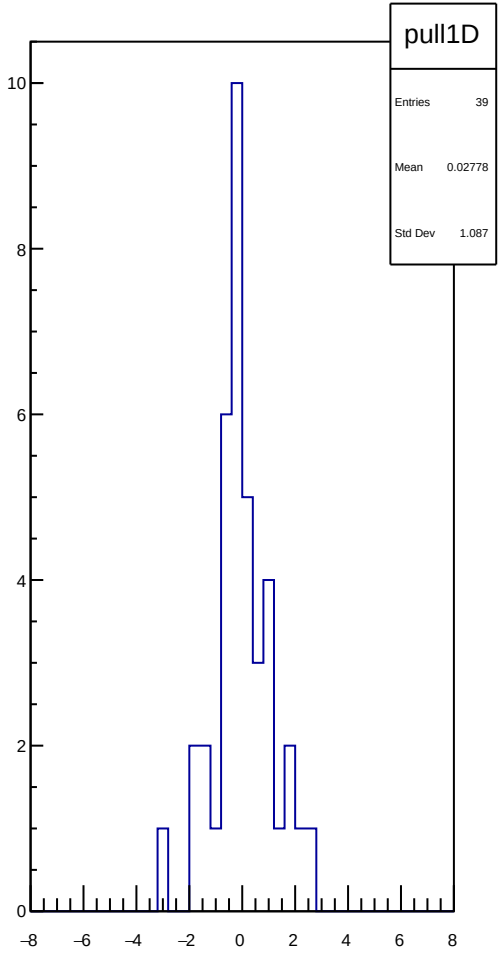

diff_bpm4ecY_rms vs run
χ² / ndf 3e+04 / 38
p0 6007 ± 6.977
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

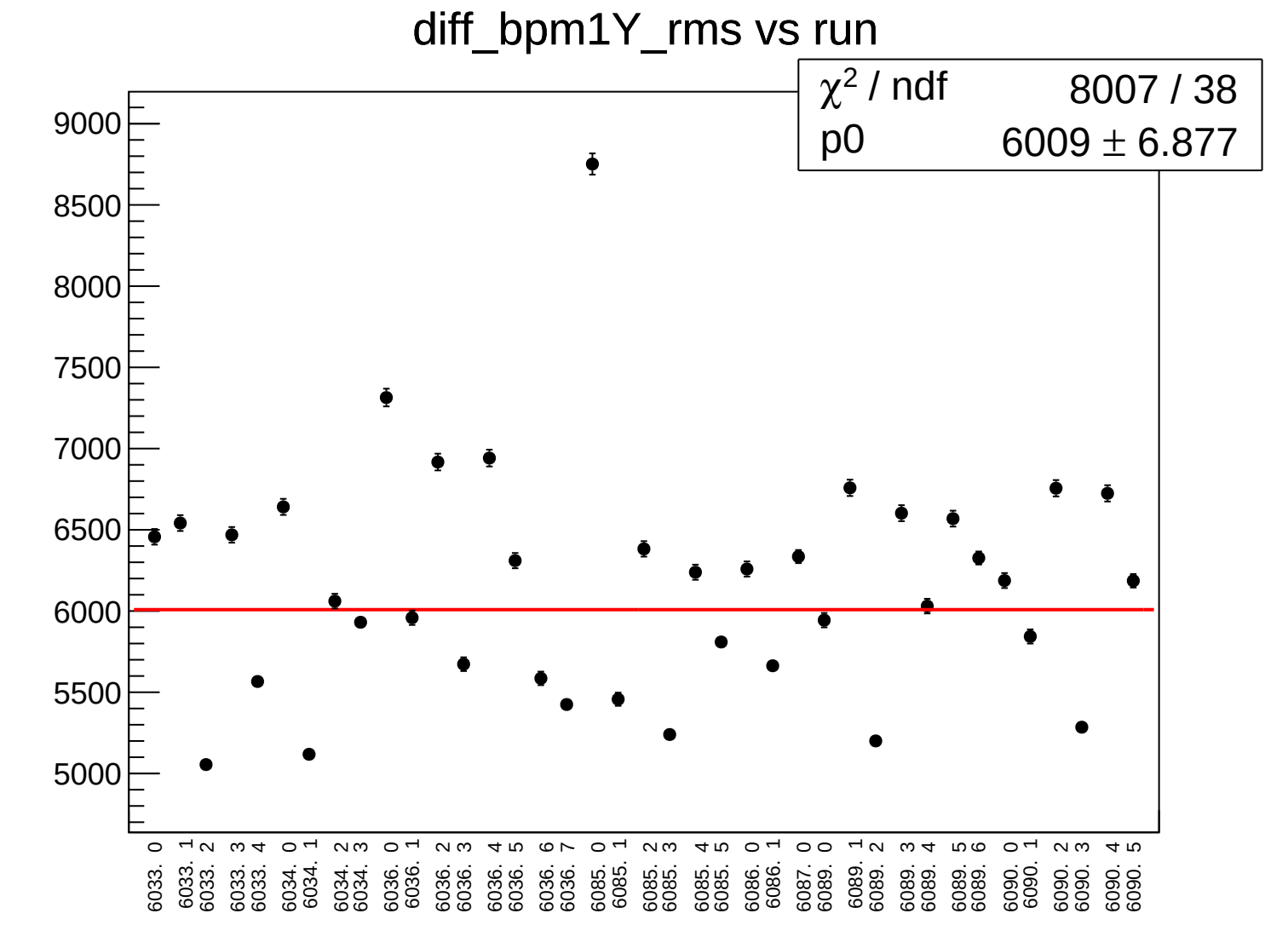

diff_bpm1X_mean vs run
χ² / ndf 35.78 / 38
p0 4.337 ± 24.85
600
400
200
0
−200
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 6.192
Std Dev 35.05
2
1
0
−1
−2

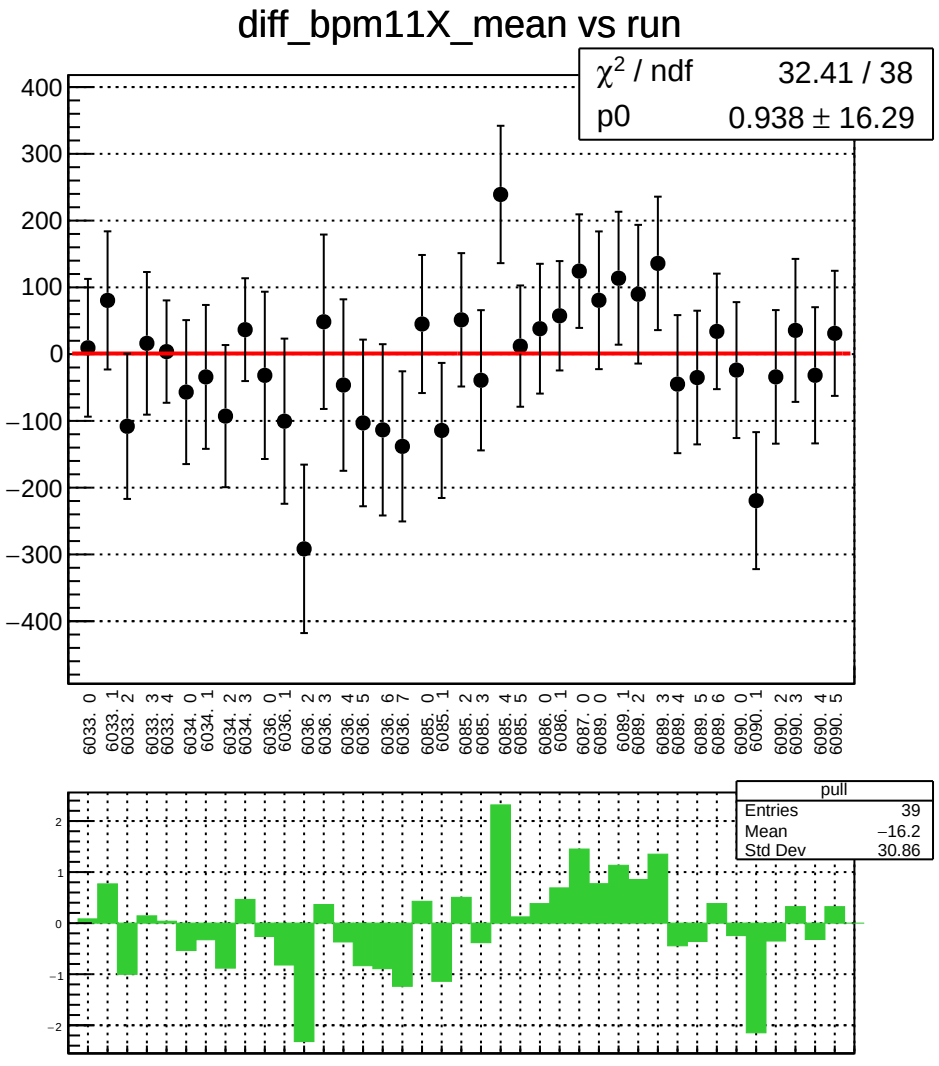

pull1D
Entries 39
Mean 0.01803
Std Dev 0.9577
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

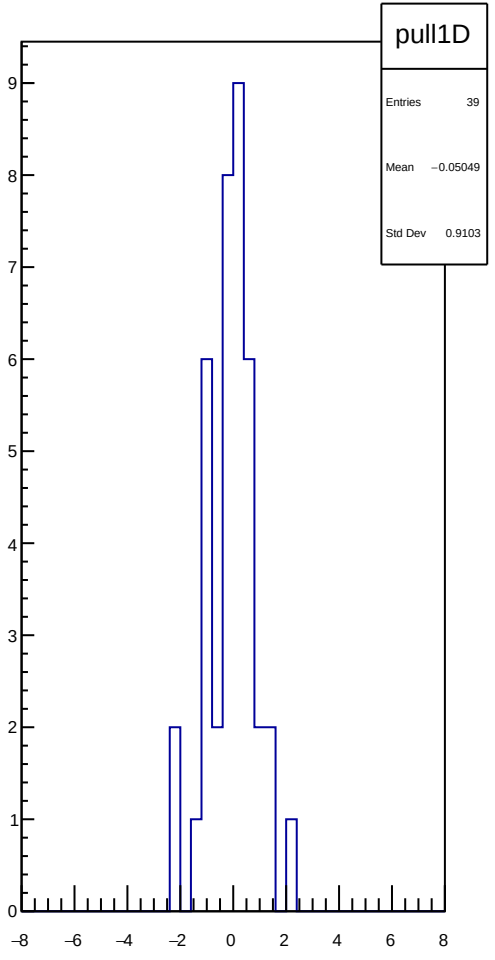

diff_bpm1X_rms vs run
χ² / ndf 3861 / 38
p0 1.539e+04 ± 17.57
19000
18000
17000
16000
15000
14000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

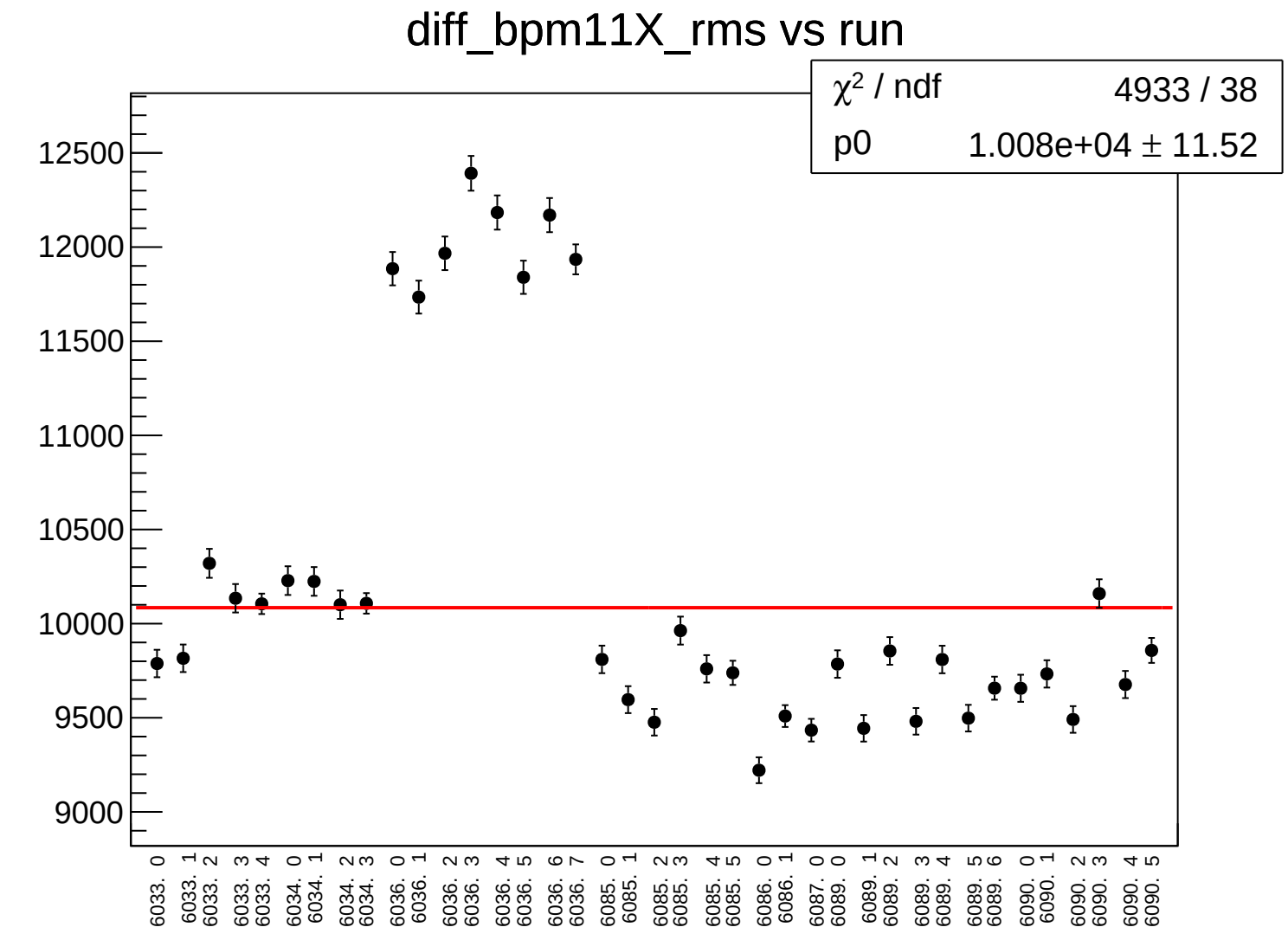

diff_bpm1Y_mean vs run
χ² / ndf 46.15 / 38
p0 6.235 ± 9.726
300
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 61.92
Std Dev 35.88
2
1
0
−1
−2
−3

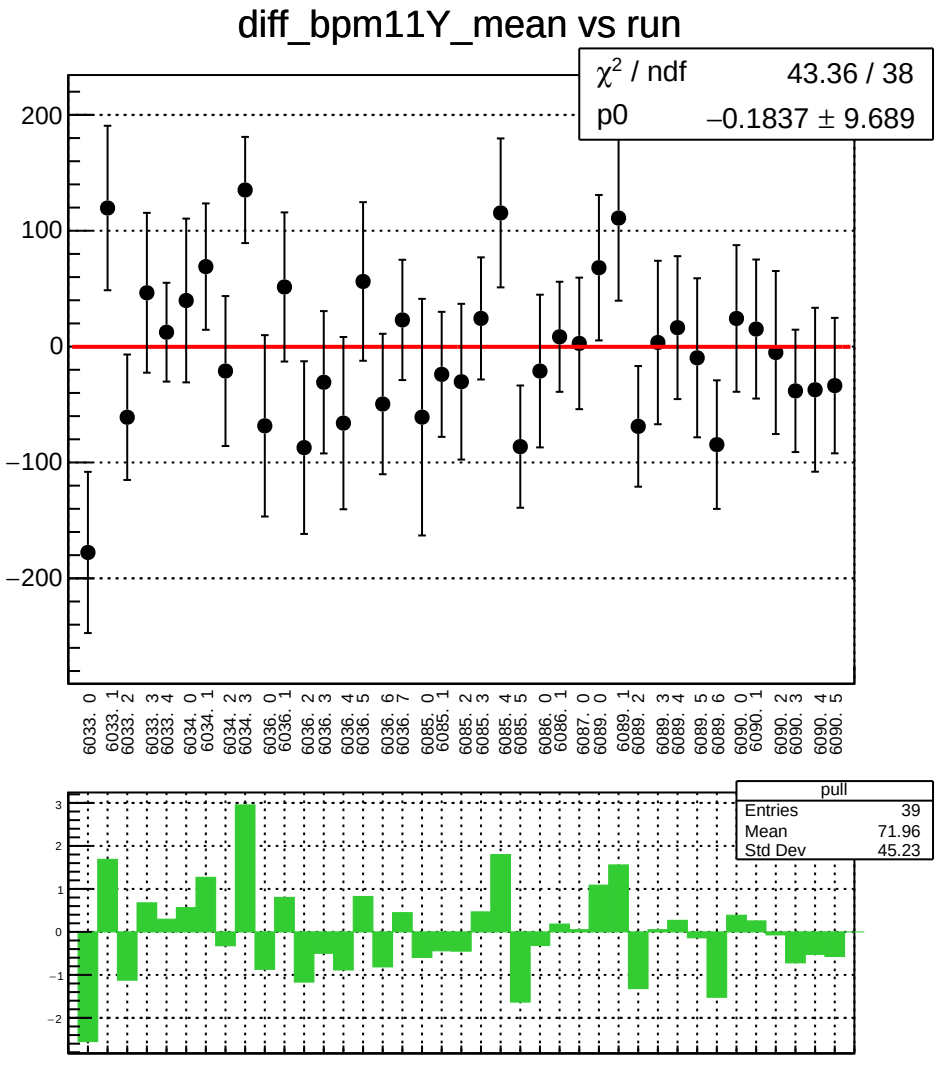

pull1D
Entries 39
Mean 0.02778
Std Dev 1.087
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

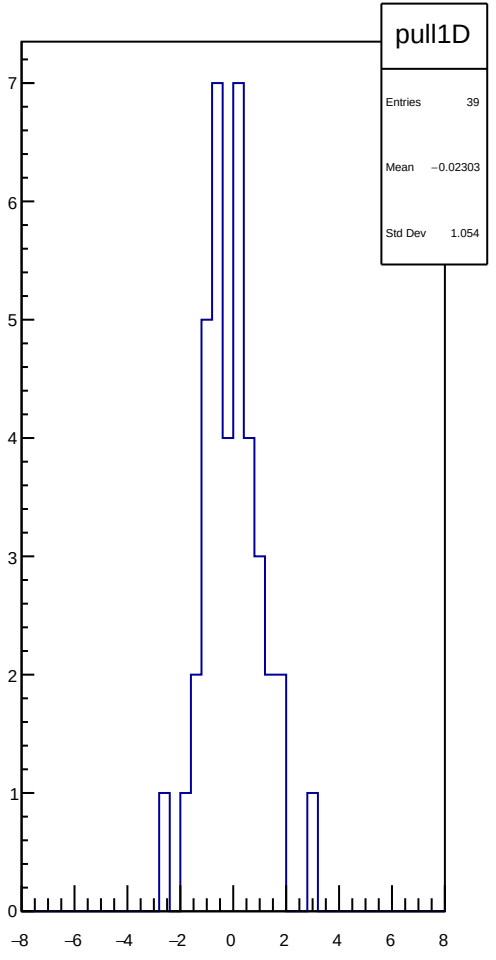

diff_bpm1Y_rms vs run
χ² / ndf 8007 / 38
p0 6009 ± 6.877
9000
8500
8000
7500
7000
6500
6000
5500
5000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

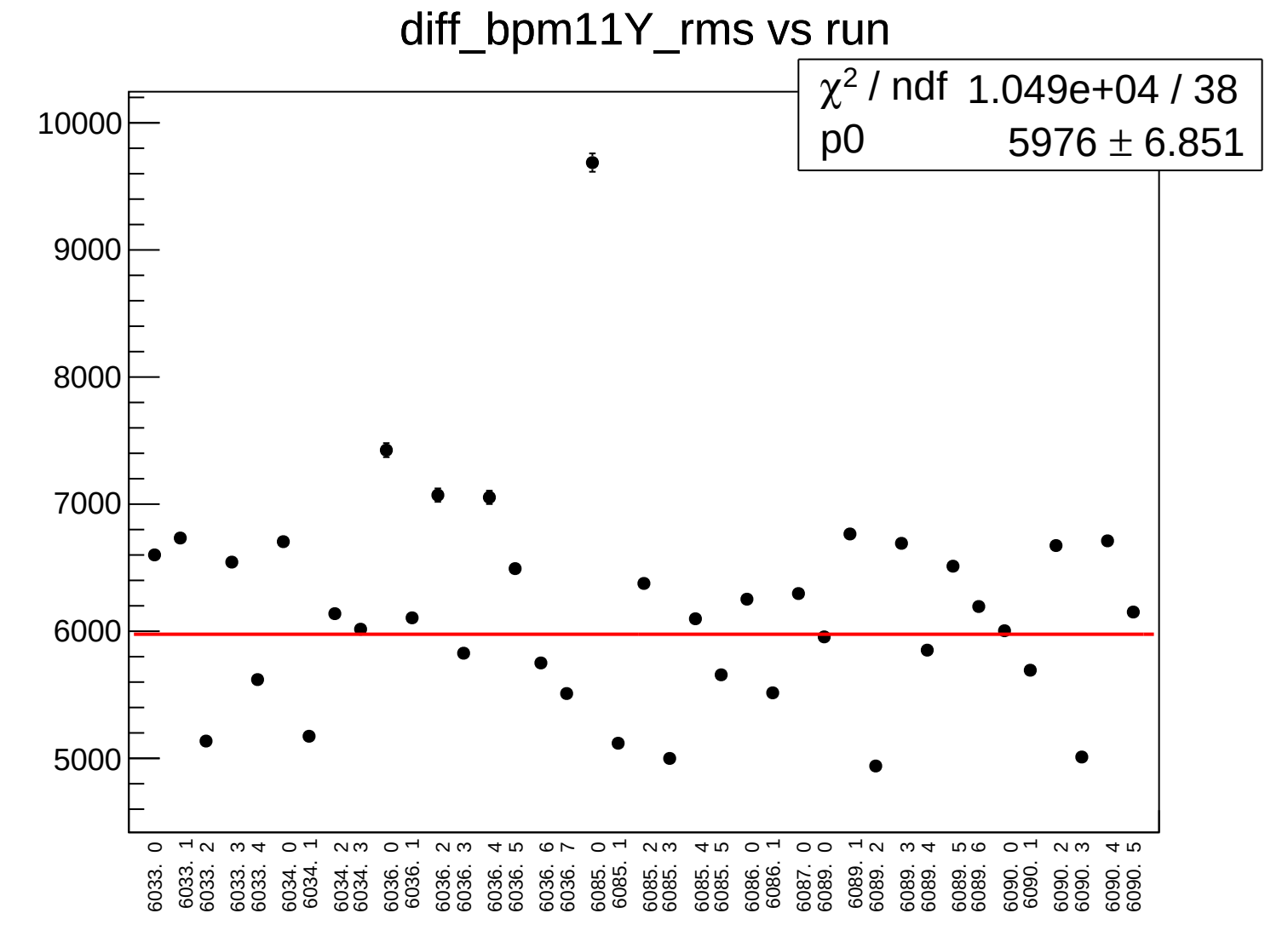

diff_bpm11X_mean vs run
χ² / ndf 32.41 / 38
p0 0.938 ± 16.29
400
300
200
100
0
−100
−200
−300
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −16.2
Std Dev 30.86
2
1
0
−1
−2

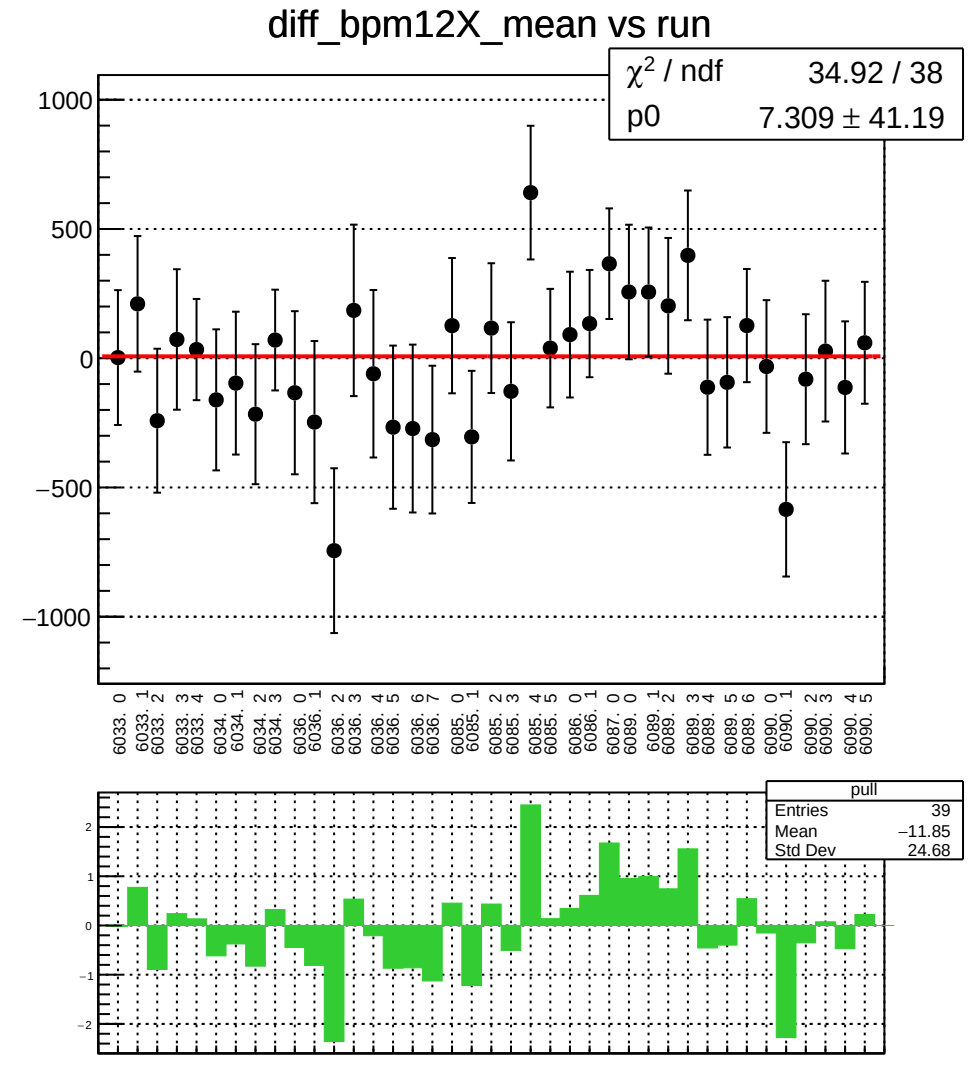

pull1D
Entries 39
Mean −0.05049
Std Dev 0.9103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

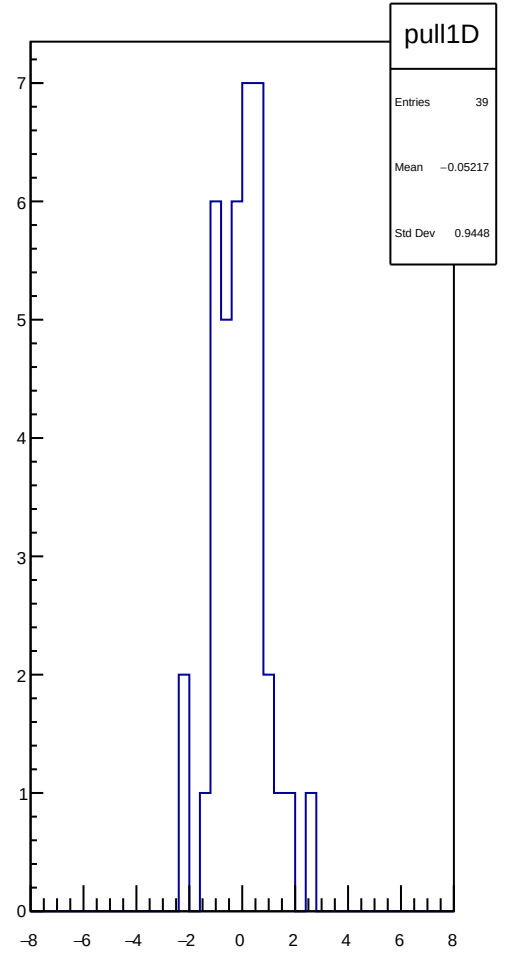

diff_bpm11X_rms vs run
χ² / ndf 4933 / 38
p0 1.008e+04 ± 11.52
12500
12000
11500
11000
10500
10000
9500
9000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

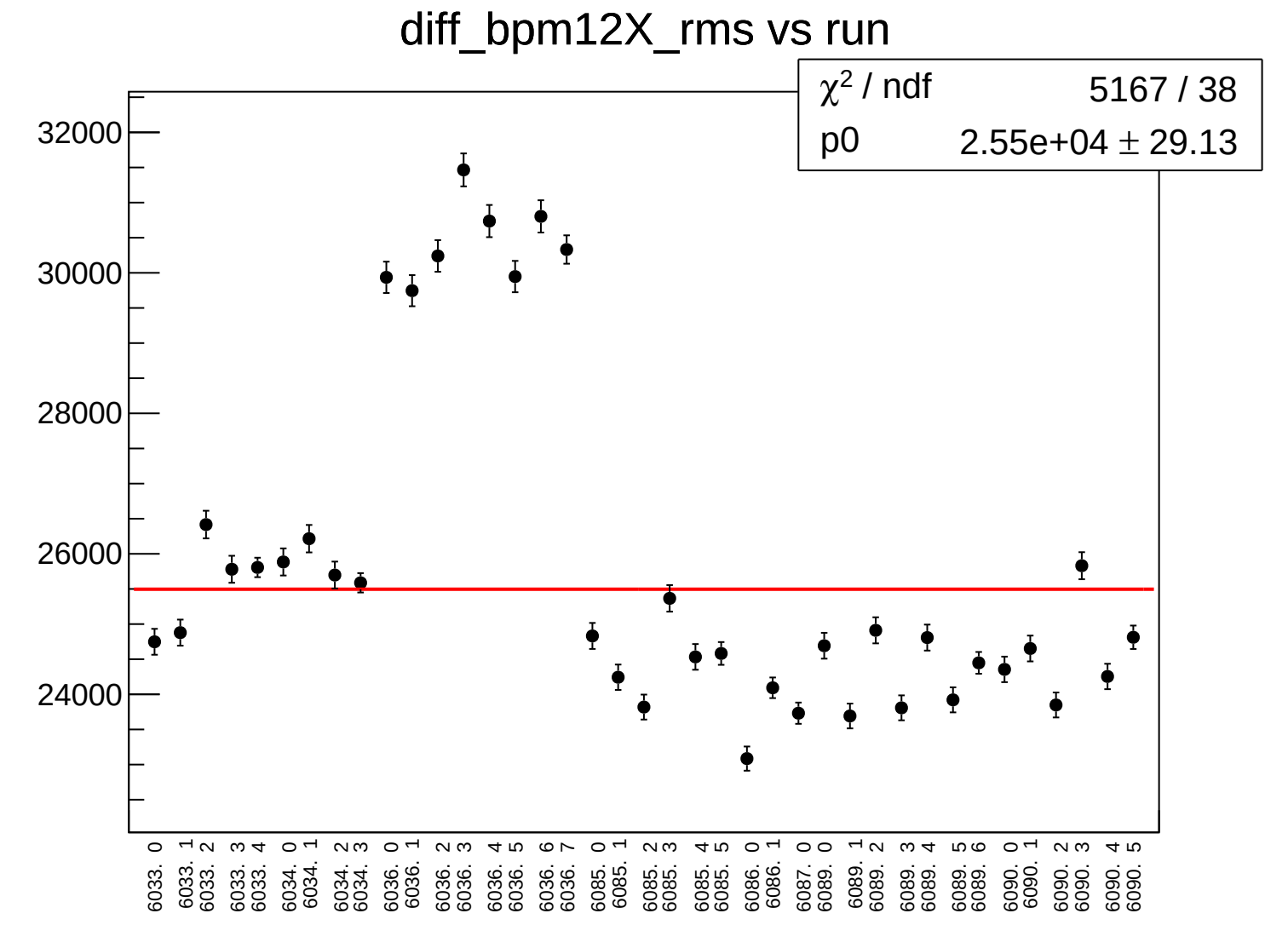

diff_bpm11Y_mean vs run
χ² / ndf 43.36 / 38
p0 −0.1837 ± 9.689
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 71.96
Std Dev 45.23
3
2
1
0
−1
−2

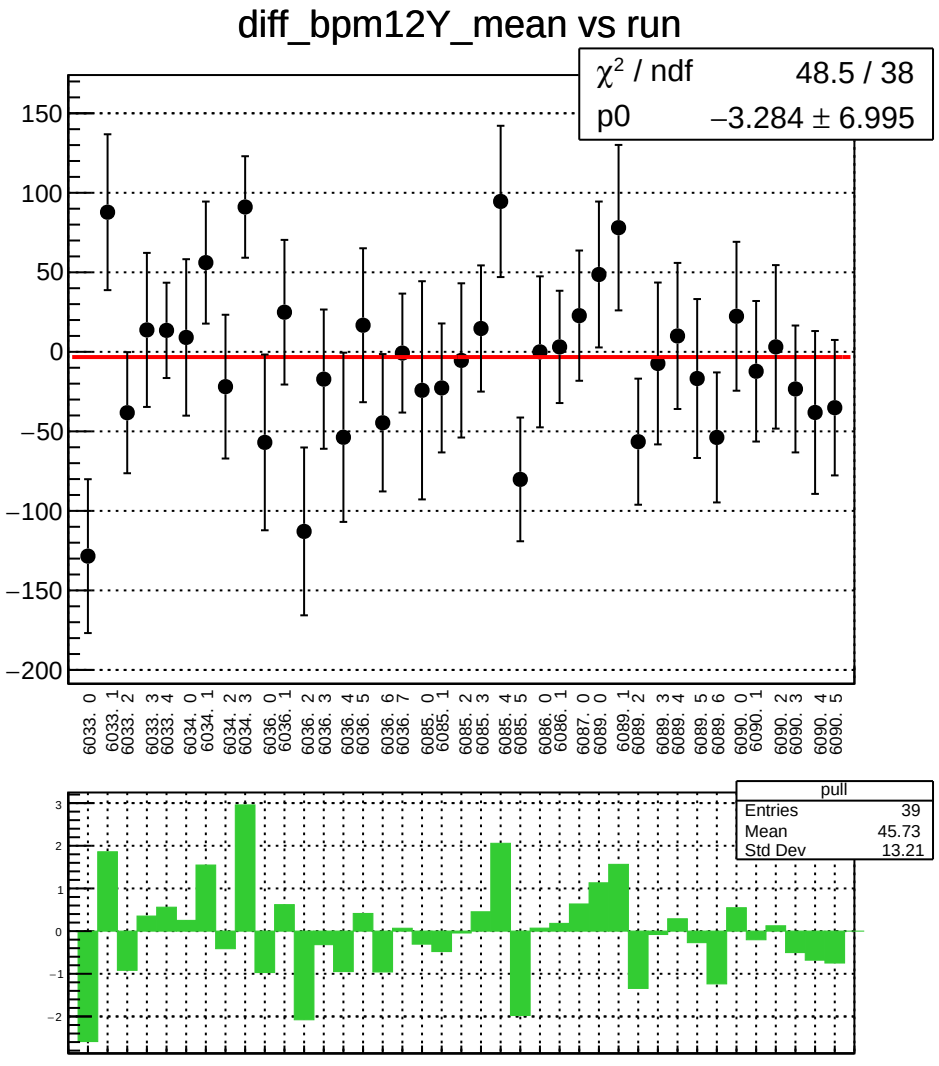

pull1D
Entries 39
Mean −0.02303
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

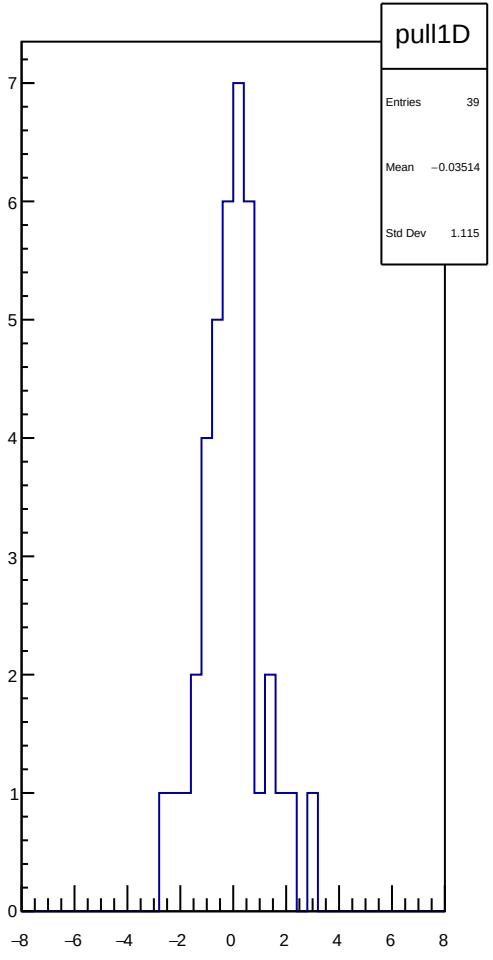

diff_bpm11Y_rms vs run
χ² / ndf 1.049e+04 / 38
p0 5976 ± 6.851
10000
9000
8000
7000
6000
5000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

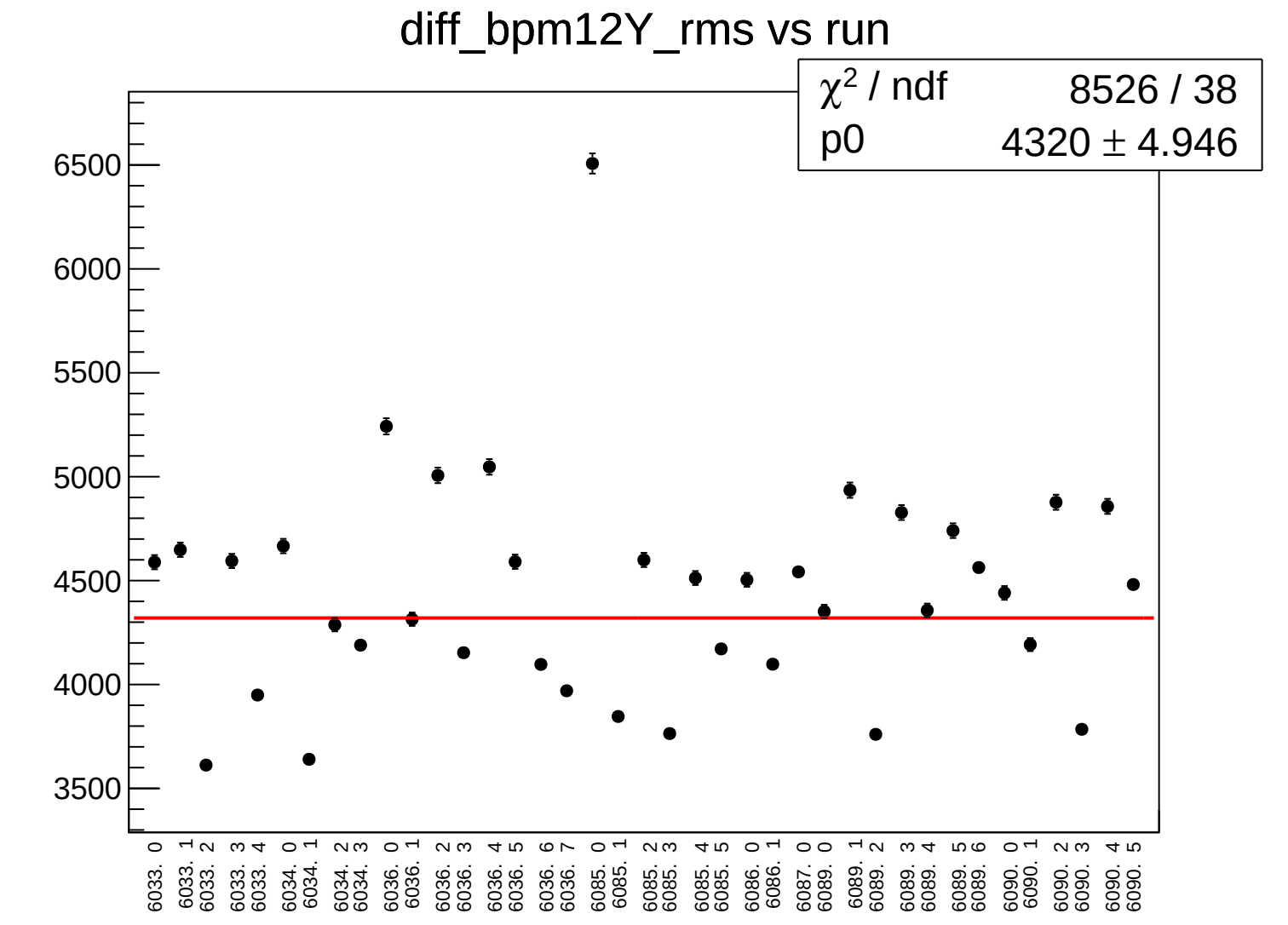

diff_bpm12X_mean vs run
χ² / ndf 34.92 / 38
p0 7.309 ± 41.19
1000
500
0
−500
−1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −11.85
Std Dev 24.68
2
1
0
−1
−2

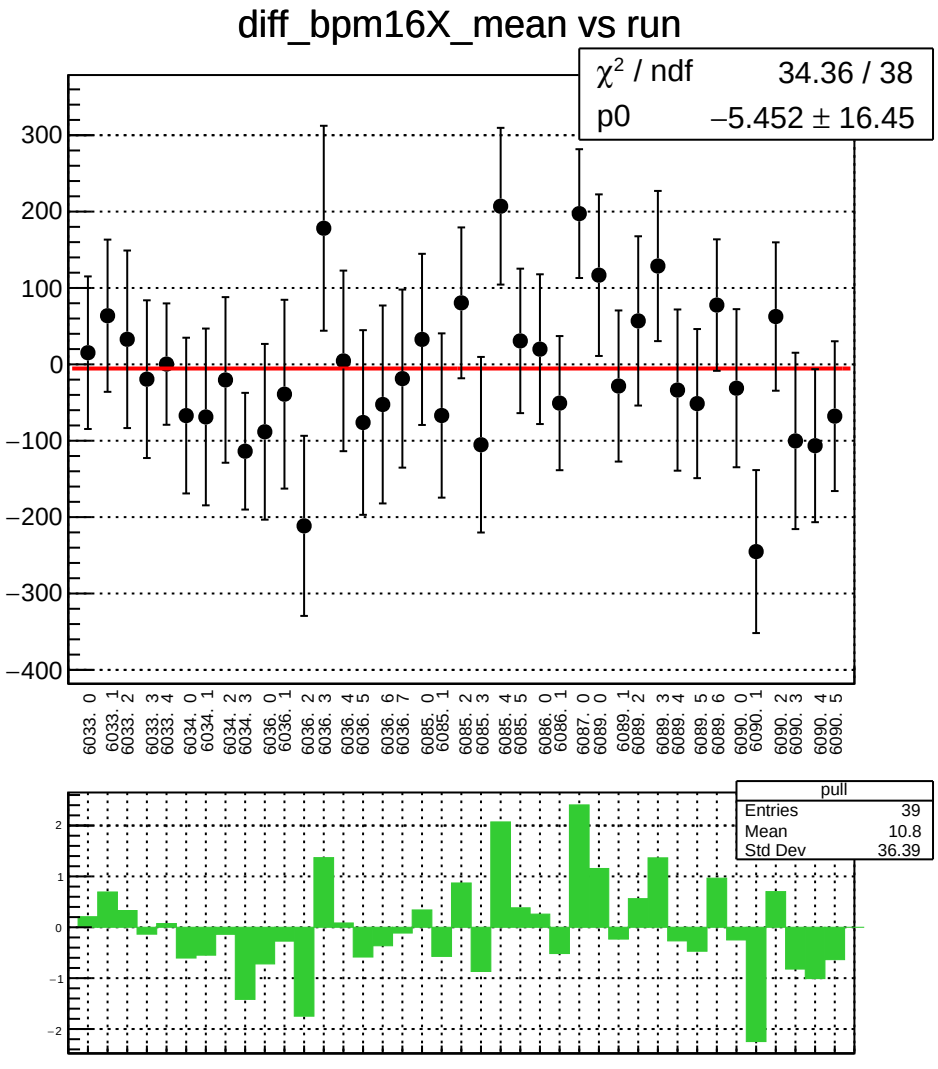

pull1D
Entries 39
Mean −0.05217
Std Dev 0.9448
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

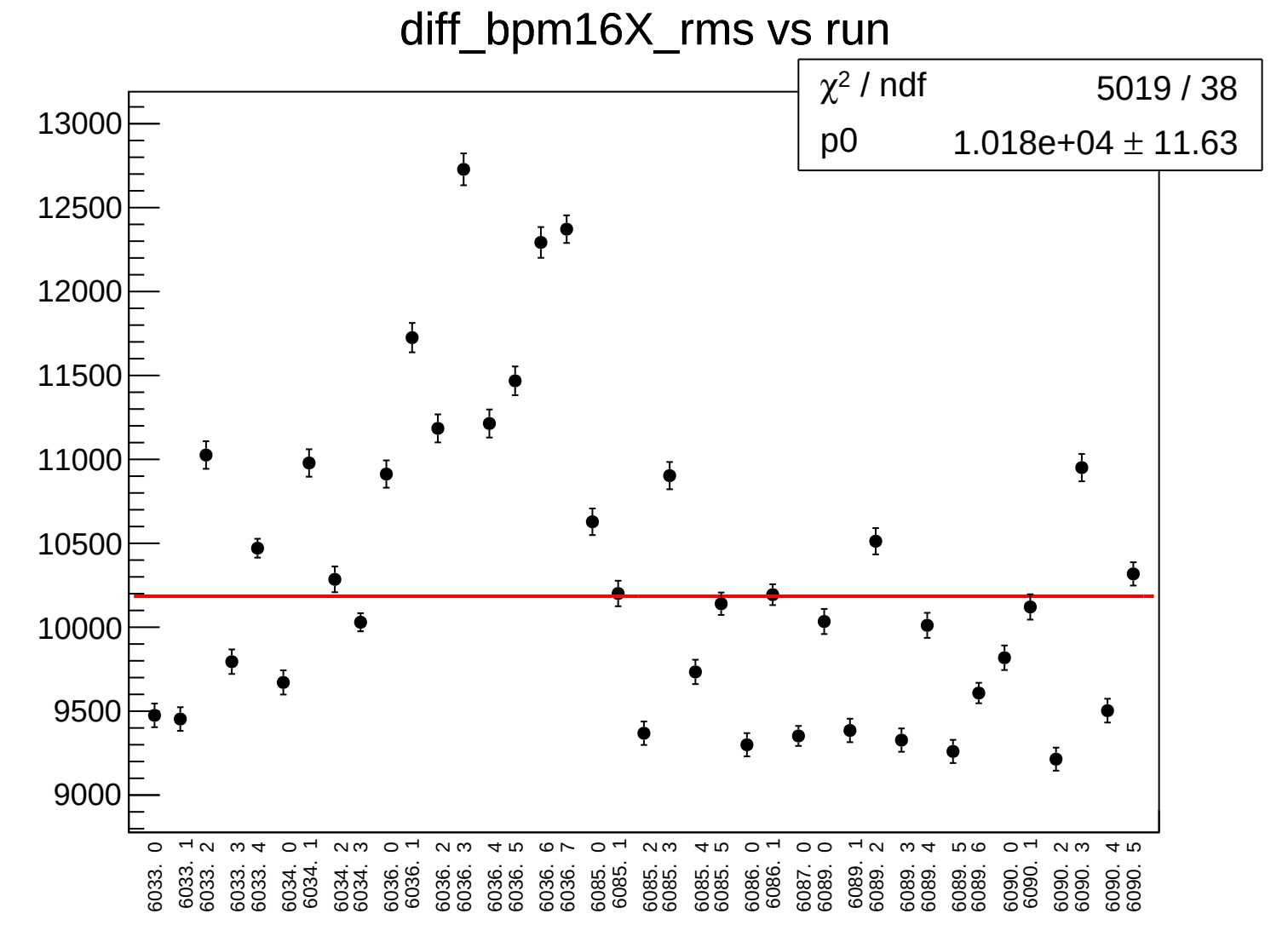

diff_bpm12X_rms vs run
χ² / ndf 5167 / 38
p0 2.55e+04 ± 29.13
32000
30000
28000
26000
24000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

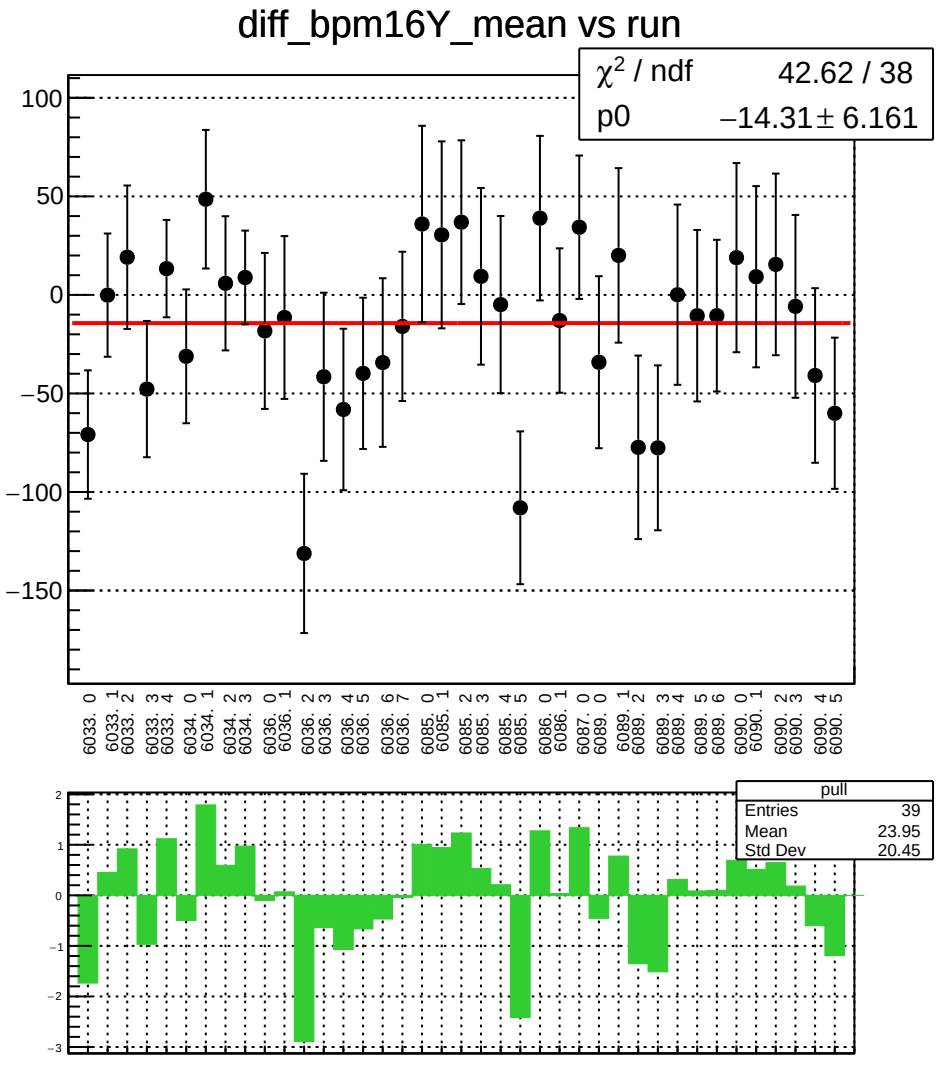

diff_bpm12Y_mean vs run
χ² / ndf 48.5 / 38
p0 −3.284 ± 6.995
150
100
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 45.73
Std Dev 13.21
3
2
1
0
−1
−2

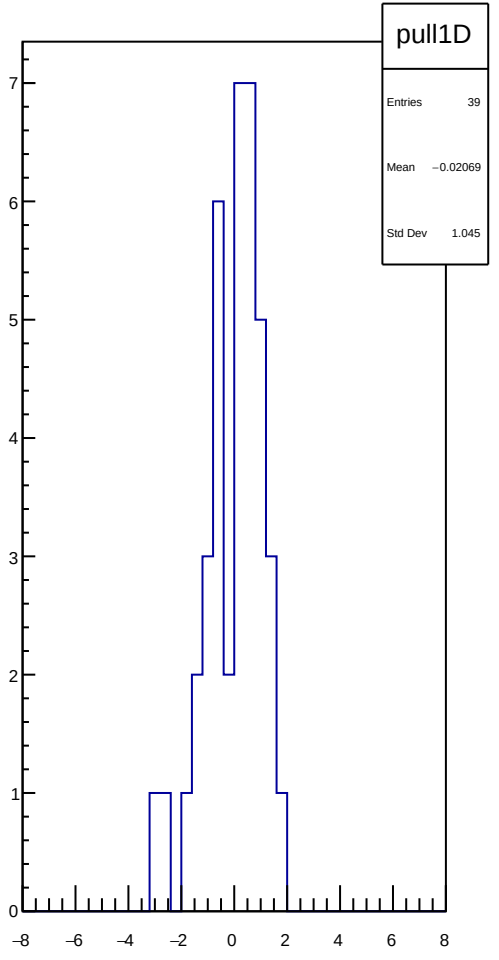

pull1D
Entries 39
Mean −0.03514
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

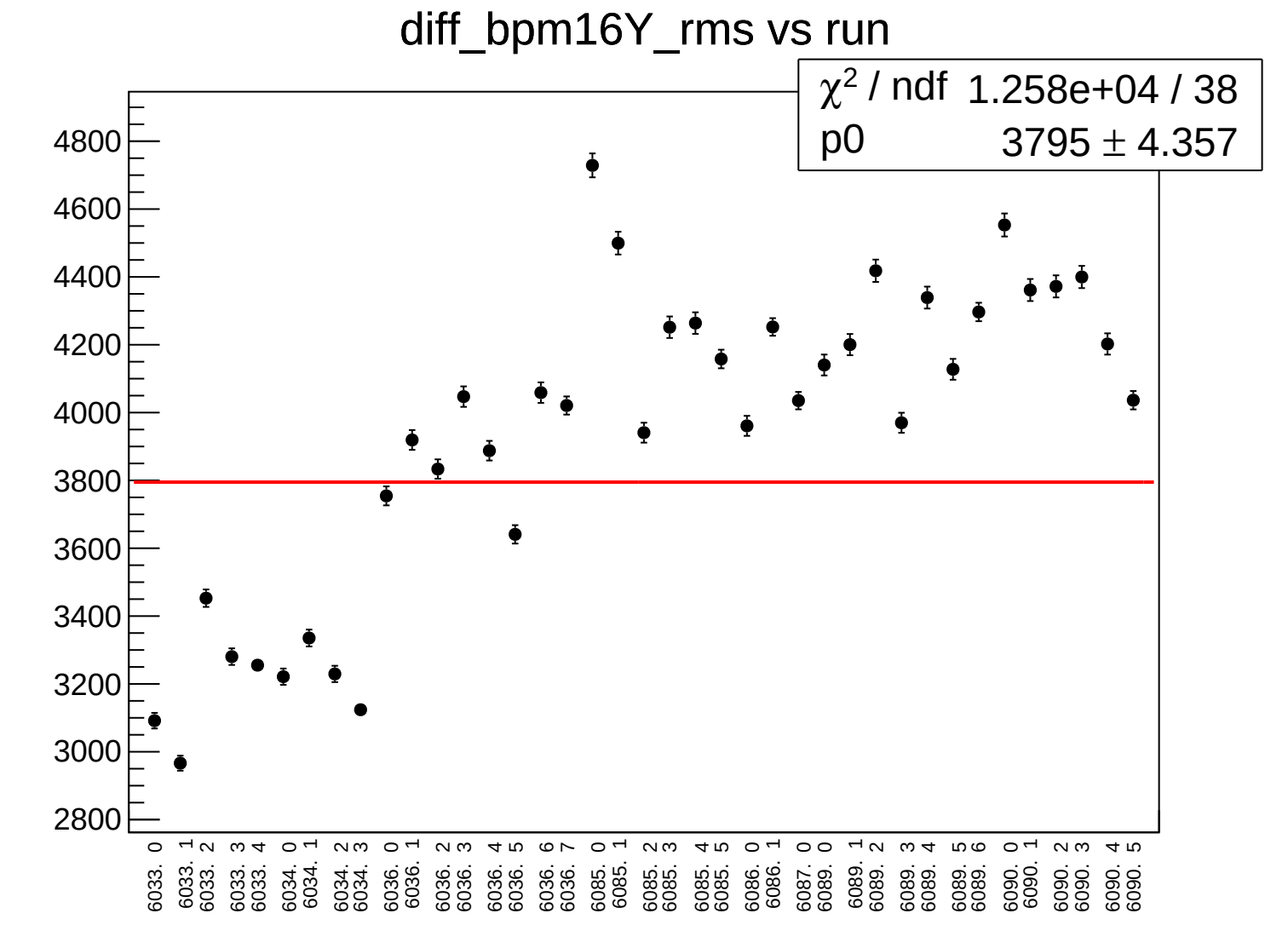

diff_bpm12Y_rms vs run
χ² / ndf 8526 / 38
p0 4320 ± 4.946
6500
6000
5500
5000
4500
4000
3500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

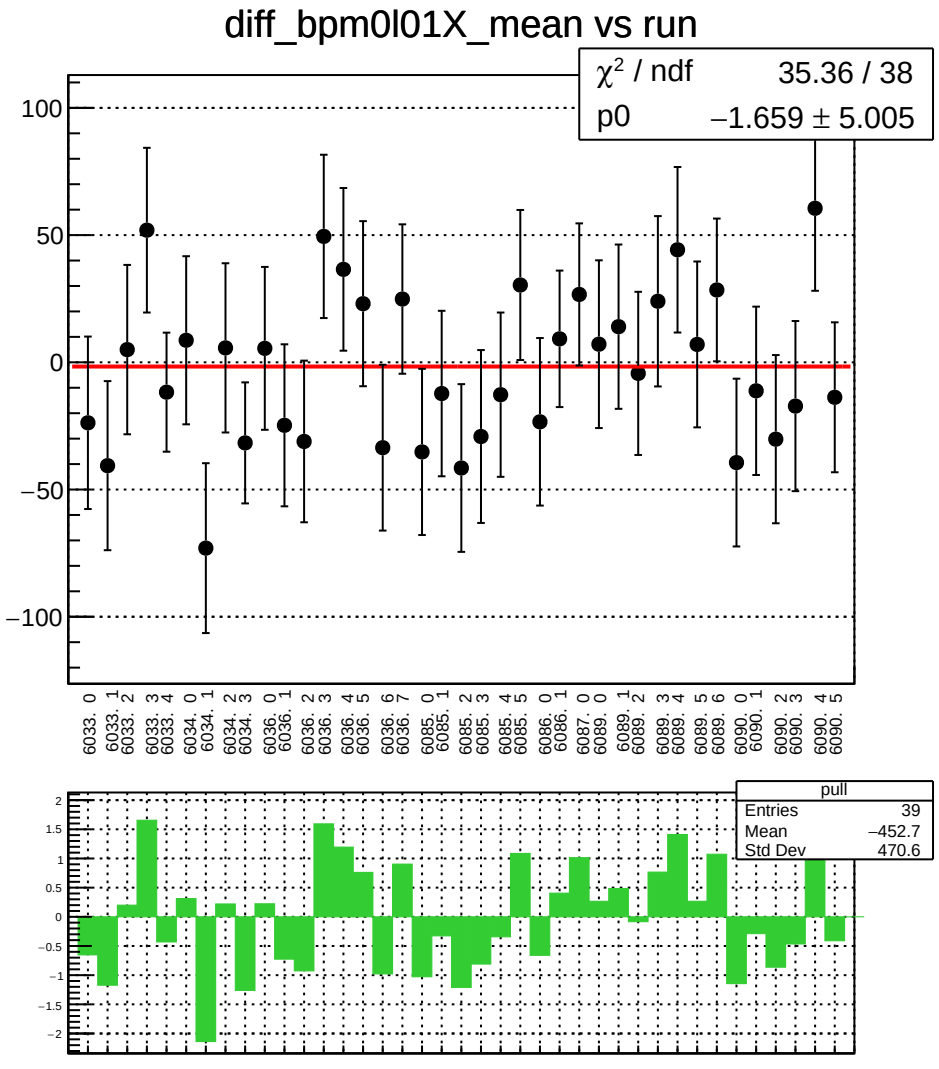

diff_bpm16X_mean vs run
χ² / ndf 34.36 / 38
p0 −5.452 ± 16.45
300
200
100
0
−100
−200
−300
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 10.8
Std Dev 36.39
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01786
Std Dev 0.9384
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

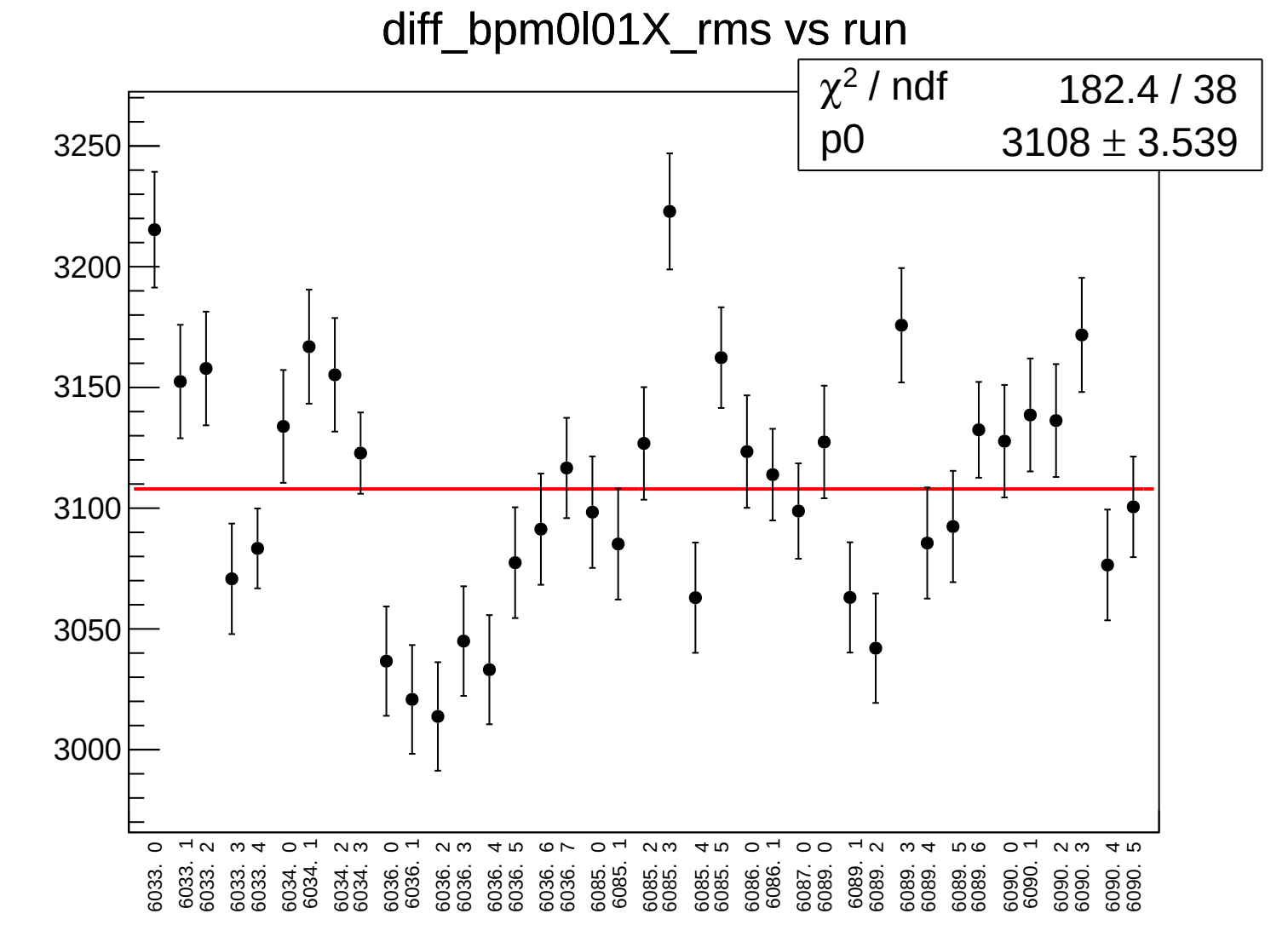

diff_bpm16X_rms vs run
χ² / ndf 5019 / 38
p0 1.018e+04 ± 11.63
13000
12500
12000
11500
11000
10500
10000
9500
9000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

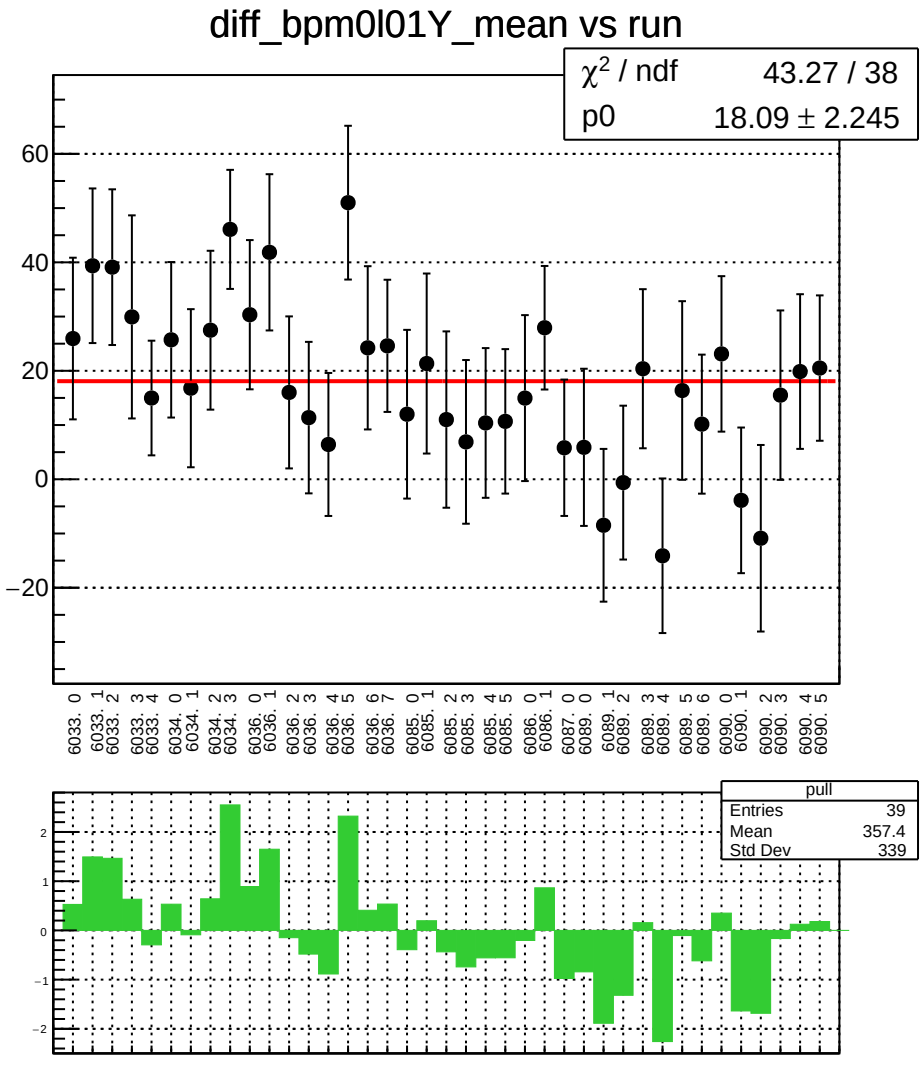

diff_bpm16Y_mean vs run
χ² / ndf 42.62 / 38
p0 −14.31 ± 6.161
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 23.95
Std Dev 20.45
2
1
0
−1
−2
−3

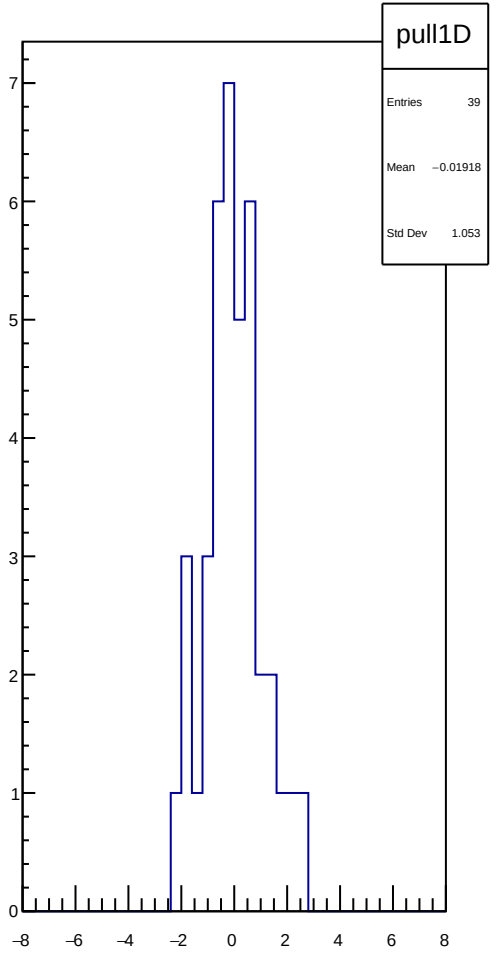

pull1D
Entries 39
Mean −0.02069
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

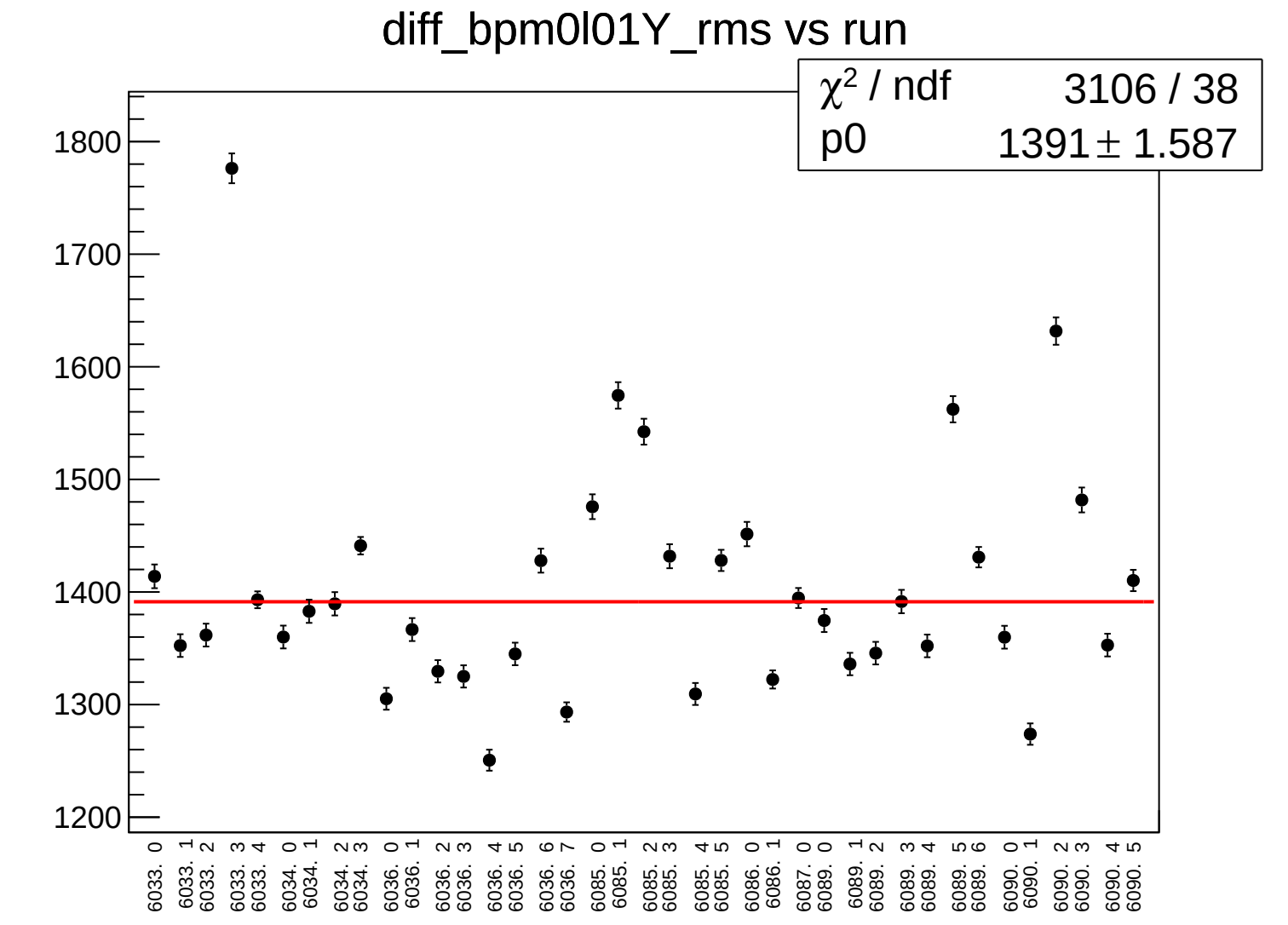

diff_bpm16Y_rms vs run
χ² / ndf 1.258e+04 / 38
p0 3795 ± 4.357
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

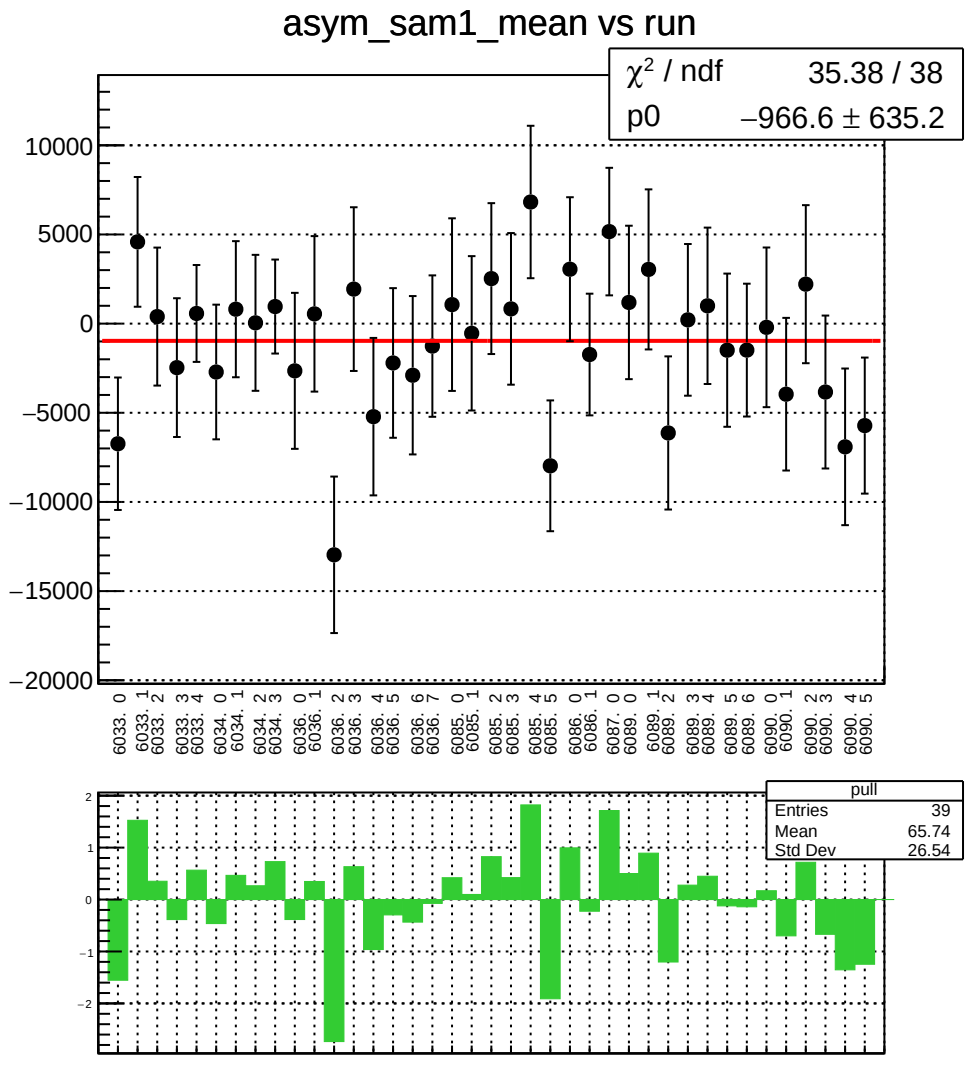

diff_bpm0l01X_mean vs run
χ² / ndf 35.36 / 38
p0 −1.659 ± 5.005
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −452.7
Std Dev 470.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.004078
Std Dev 0.9522
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

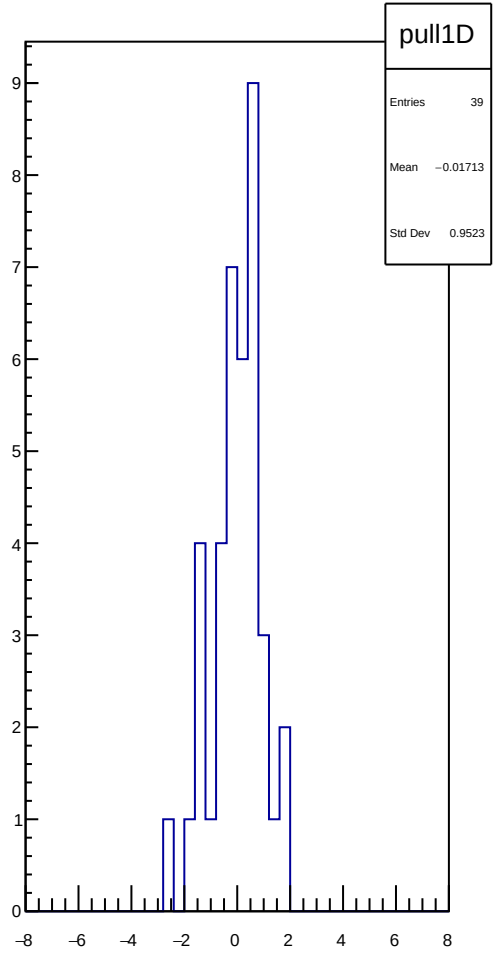

diff_bpm0l01X_rms vs run
χ² / ndf 182.4 / 38
p0 3108 ± 3.539
3250
3200
3150
3100
3050
3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

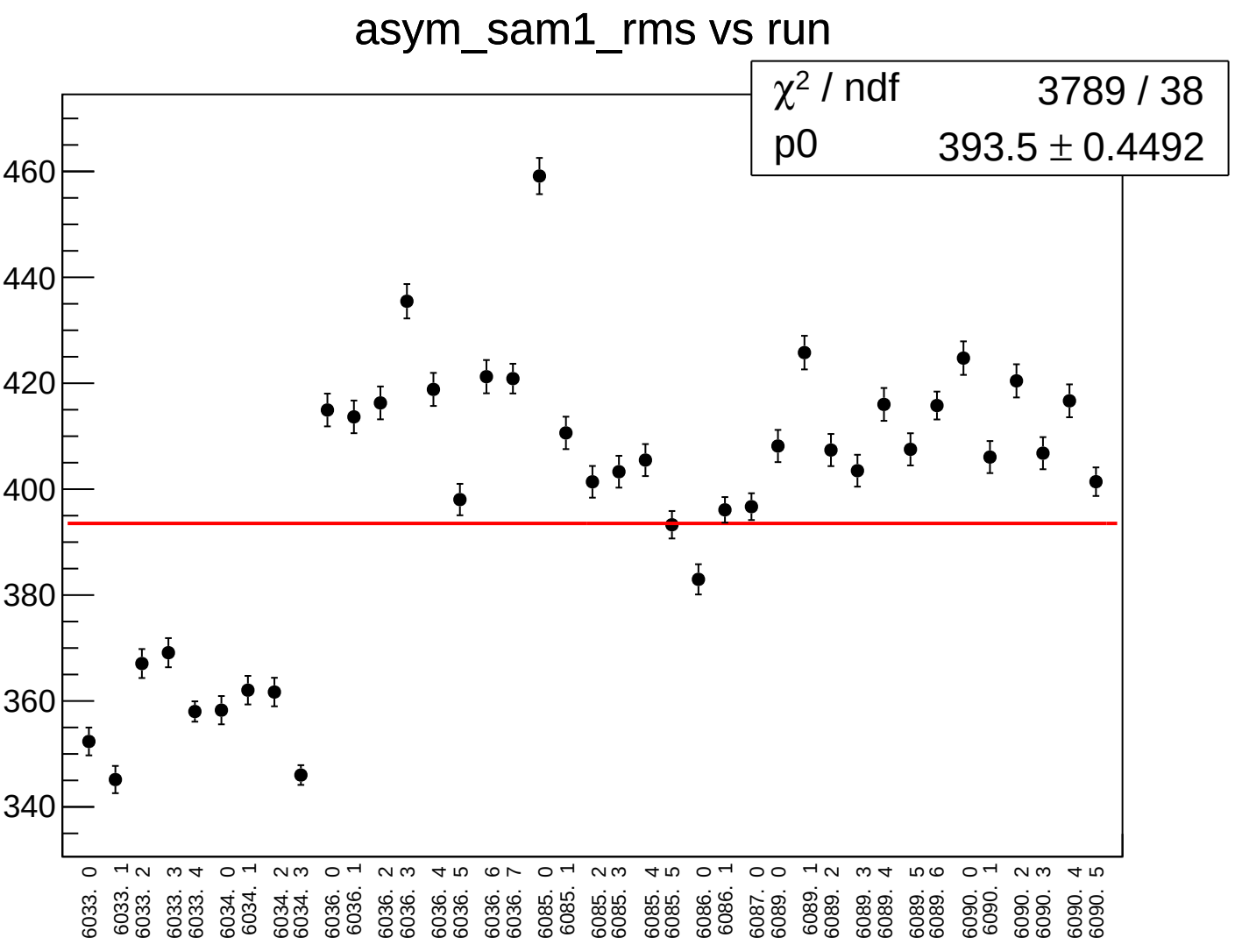

diff_bpm0l01Y_mean vs run
χ² / ndf 43.27 / 38
p0 18.09 ± 2.245
60
40
20
0
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 357.4
Std Dev 339
2
1
0
−1
−2

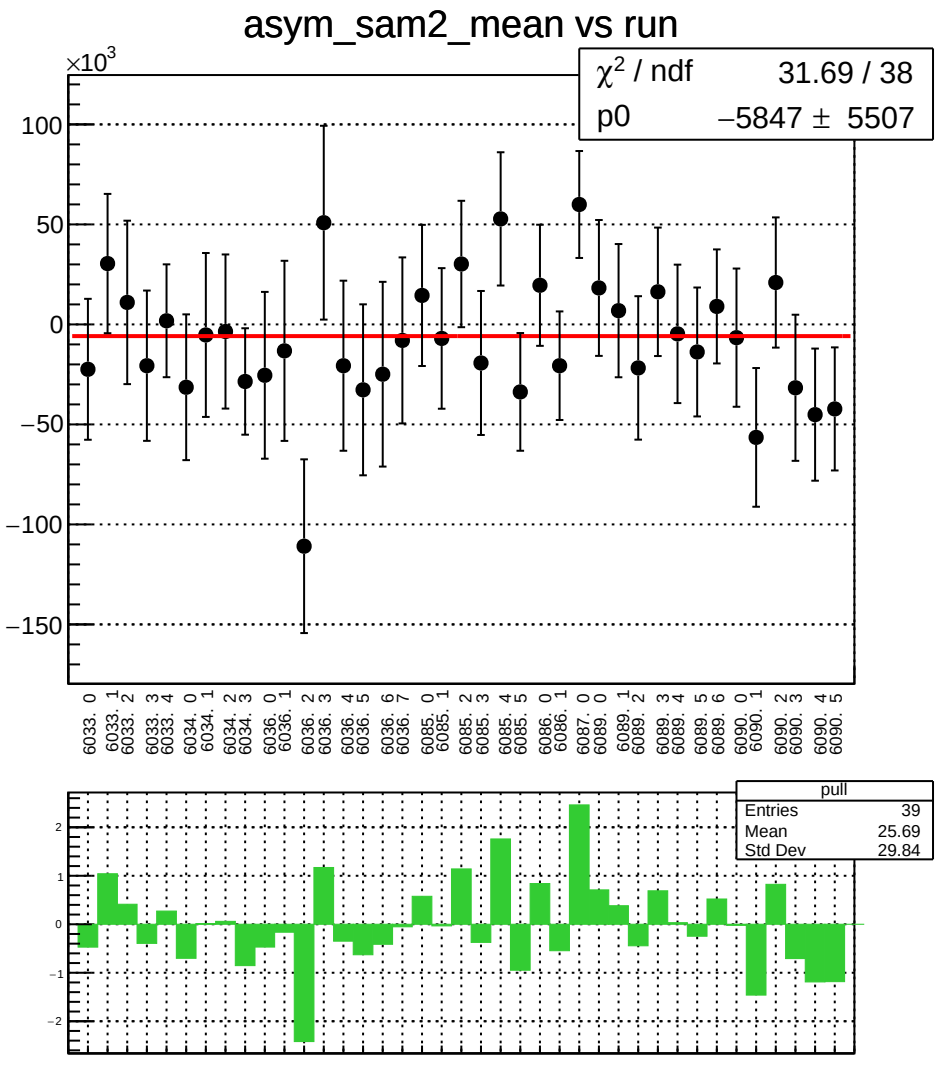

pull1D
Entries 39
Mean −0.01918
Std Dev 1.053
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

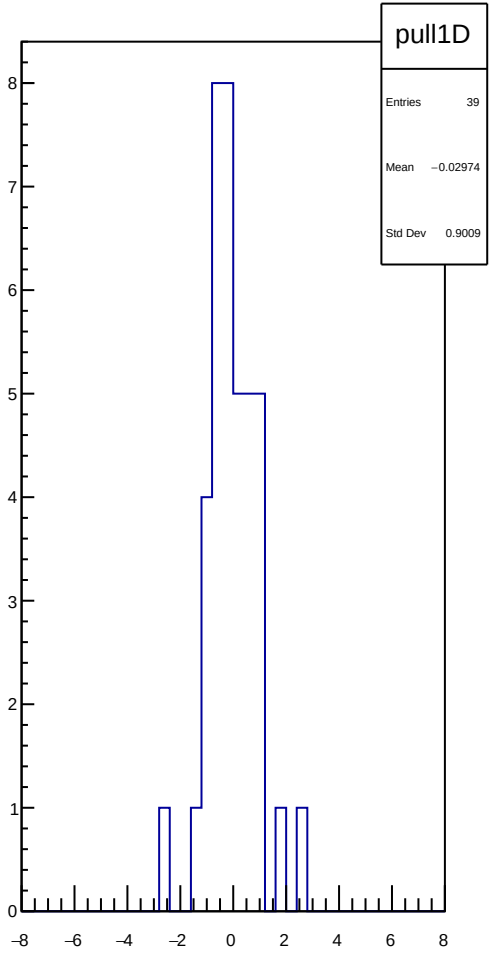

diff_bpm0l01Y_rms vs run
χ² / ndf 3106 / 38
p0 1391 ± 1.587
1800
1700
1600
1500
1400
1300
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

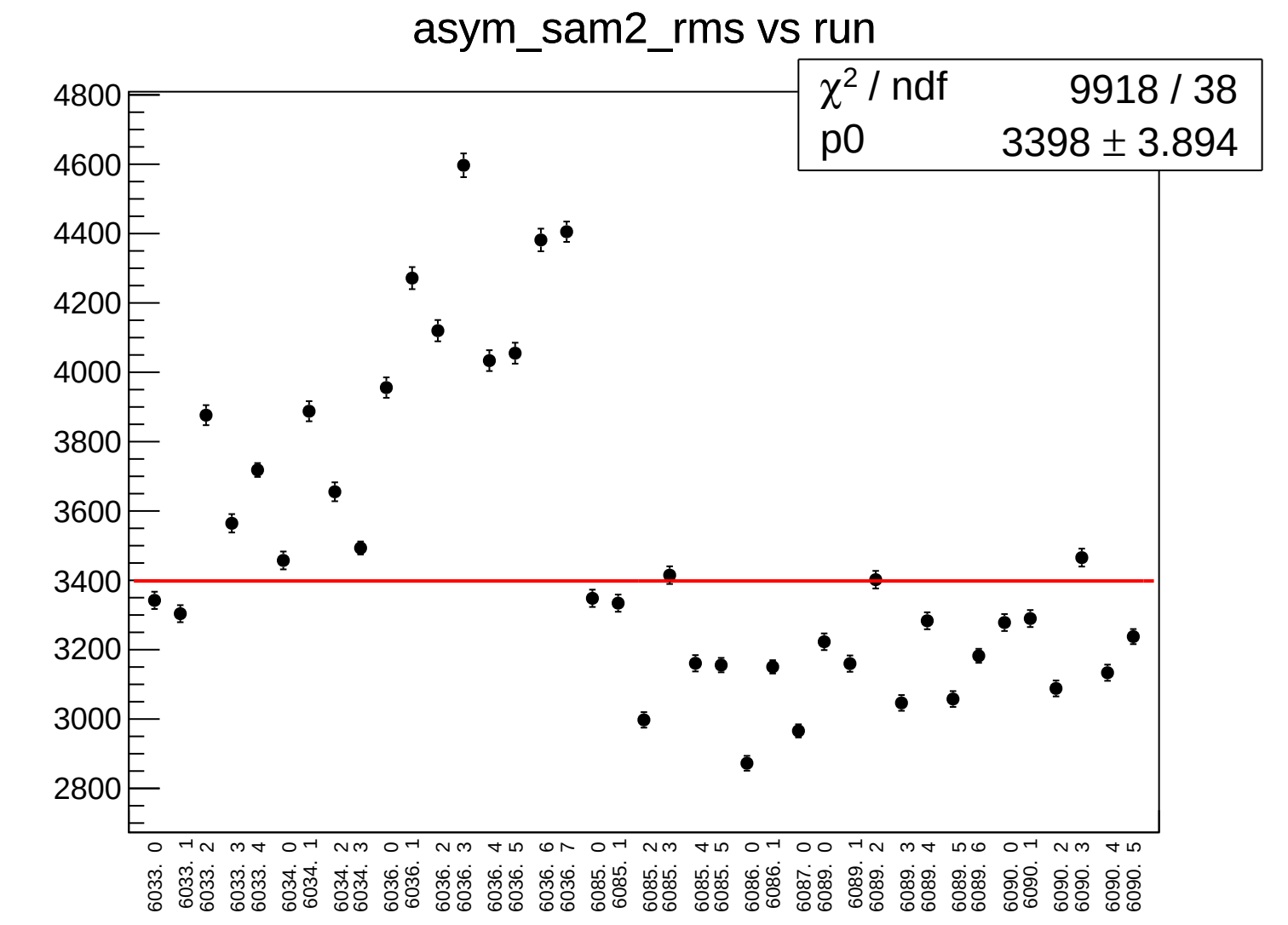

asym_sam1_mean vs run
χ² / ndf 35.38 / 38
p0 −966.6 ± 635.2
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 65.74
Std Dev 26.54
2
1
0
−1
−2

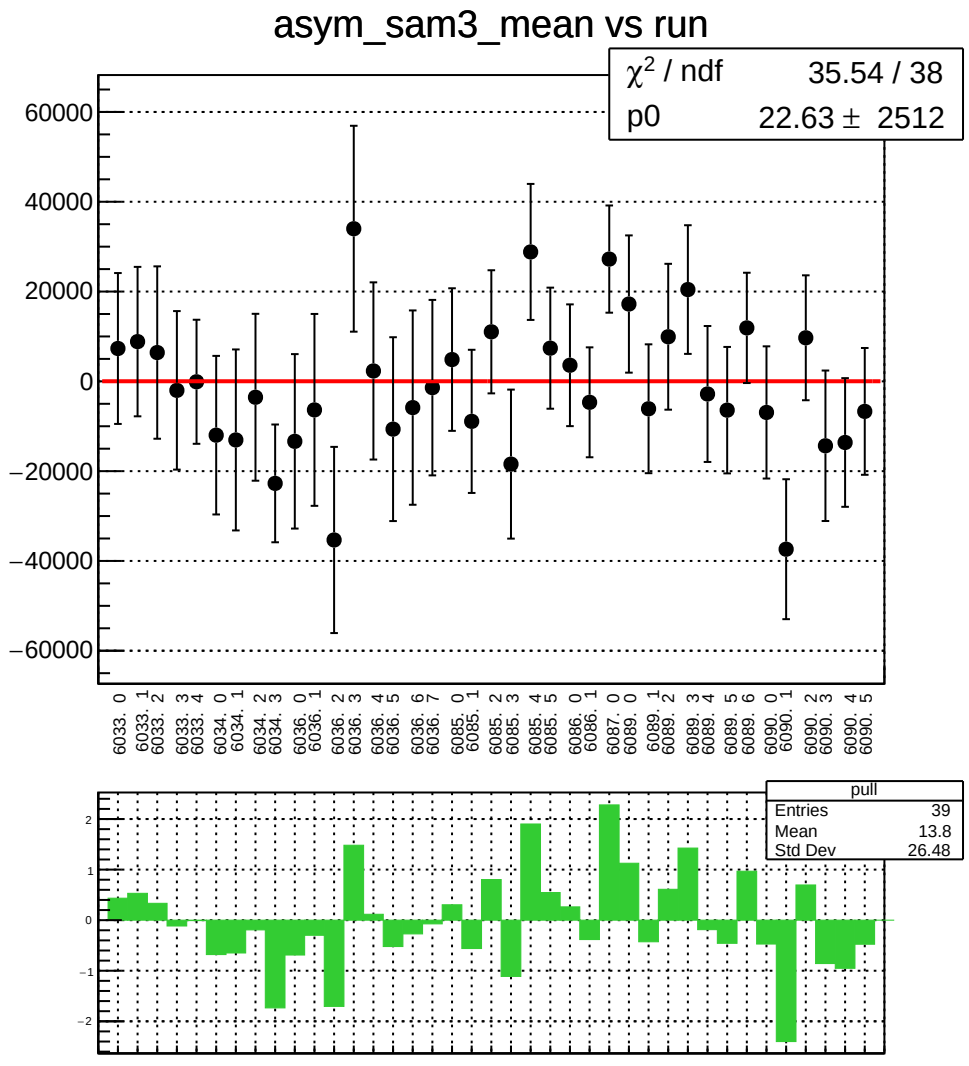

pull1D
Entries 39
Mean −0.01713
Std Dev 0.9523
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

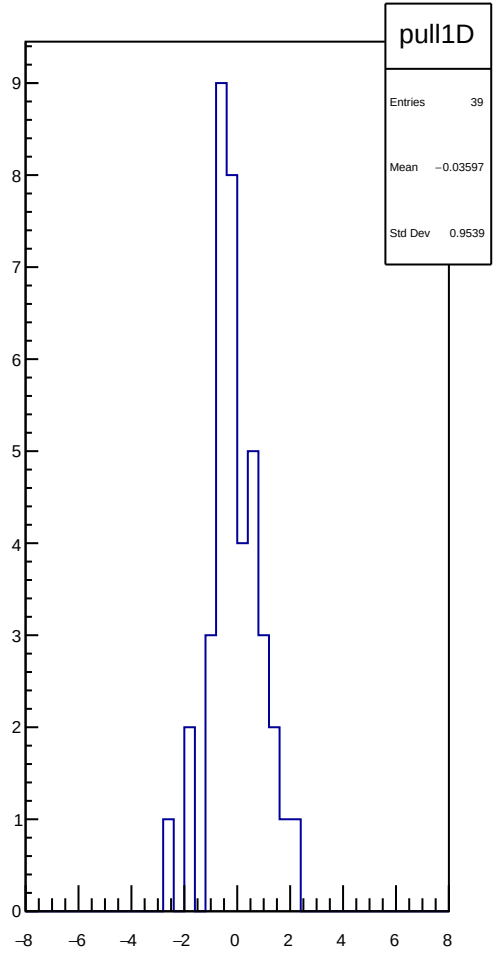

asym_sam1_rms vs run
χ² / ndf 3789 / 38
p0 393.5 ± 0.4492
460
440
420
400
380
360
340
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

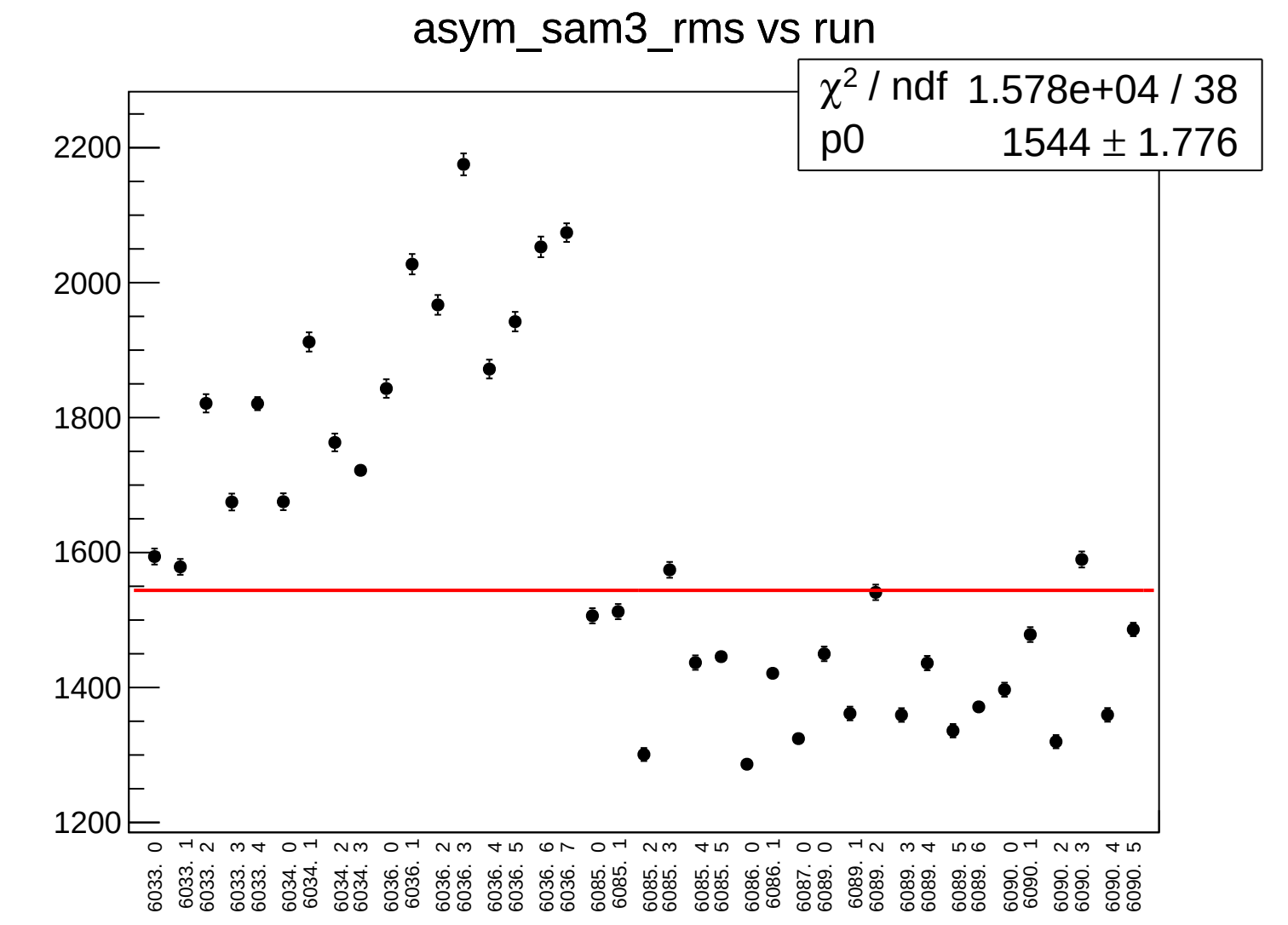

asym_sam2_mean vs run
×10^3
χ² / ndf 31.69 / 38
p0 −5847 ± 5507
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 25.69
Std Dev 29.84
2
1
0
−1
−2

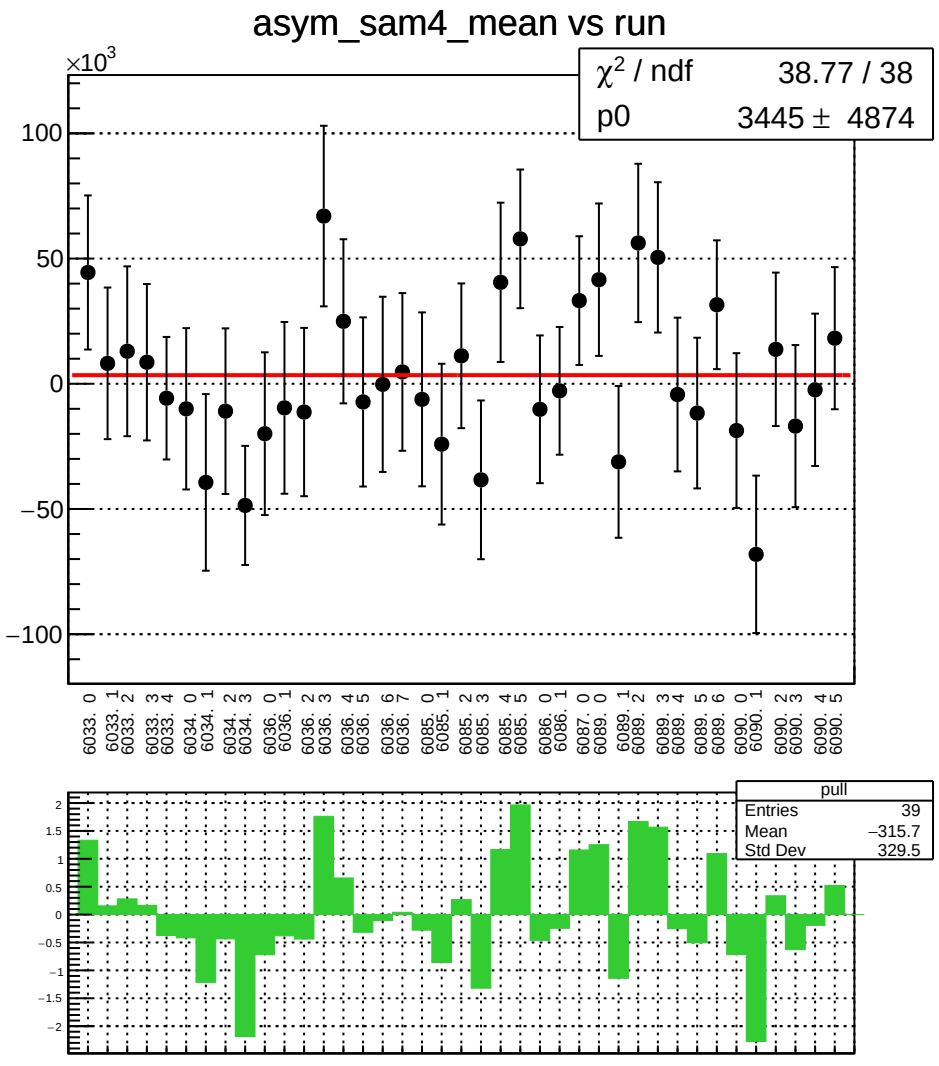

pull1D
Entries 39
Mean −0.02974
Std Dev 0.9009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

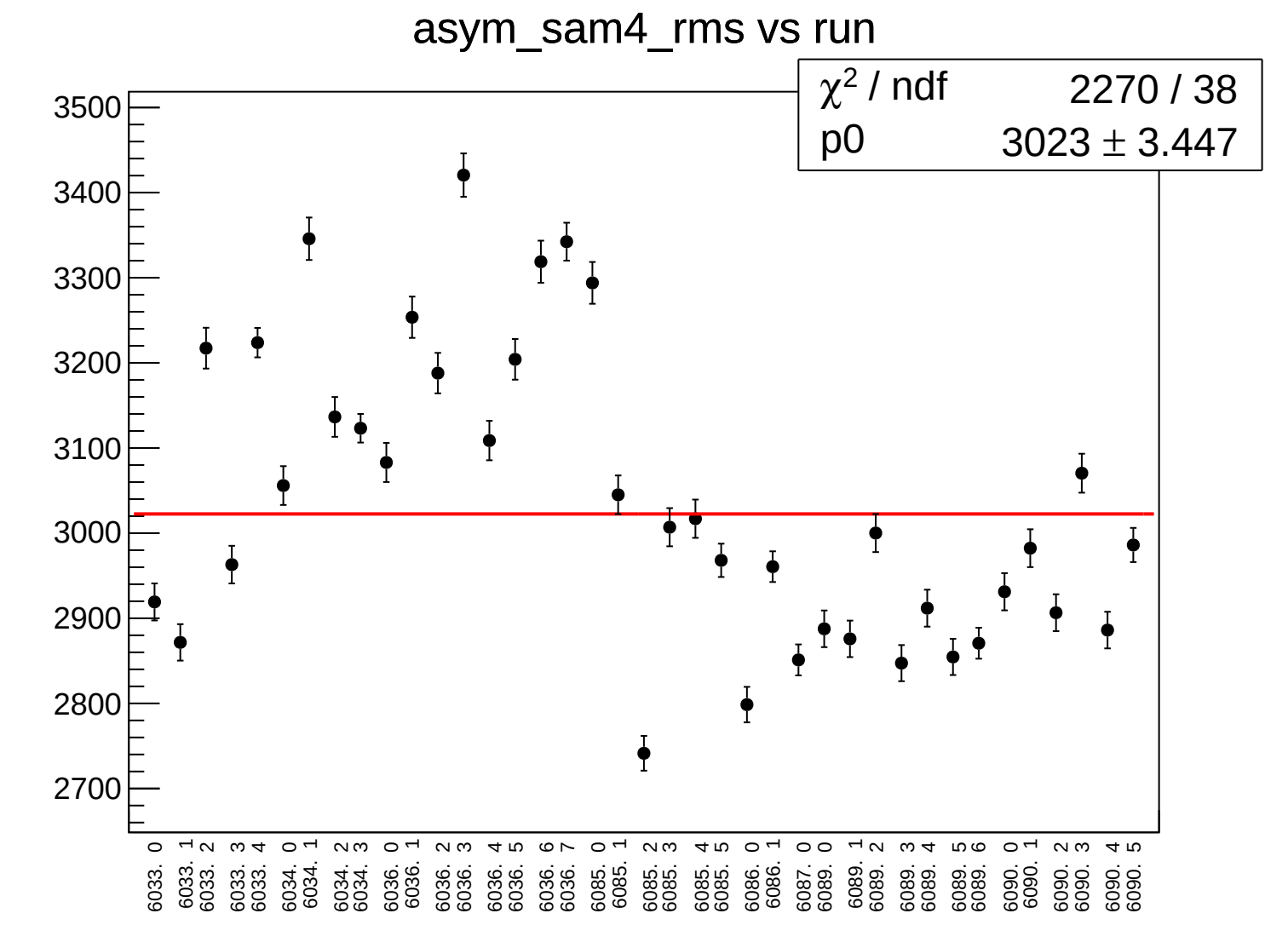

asym_sam2_rms vs run
χ² / ndf 9918 / 38
p0 3398 ± 3.894
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

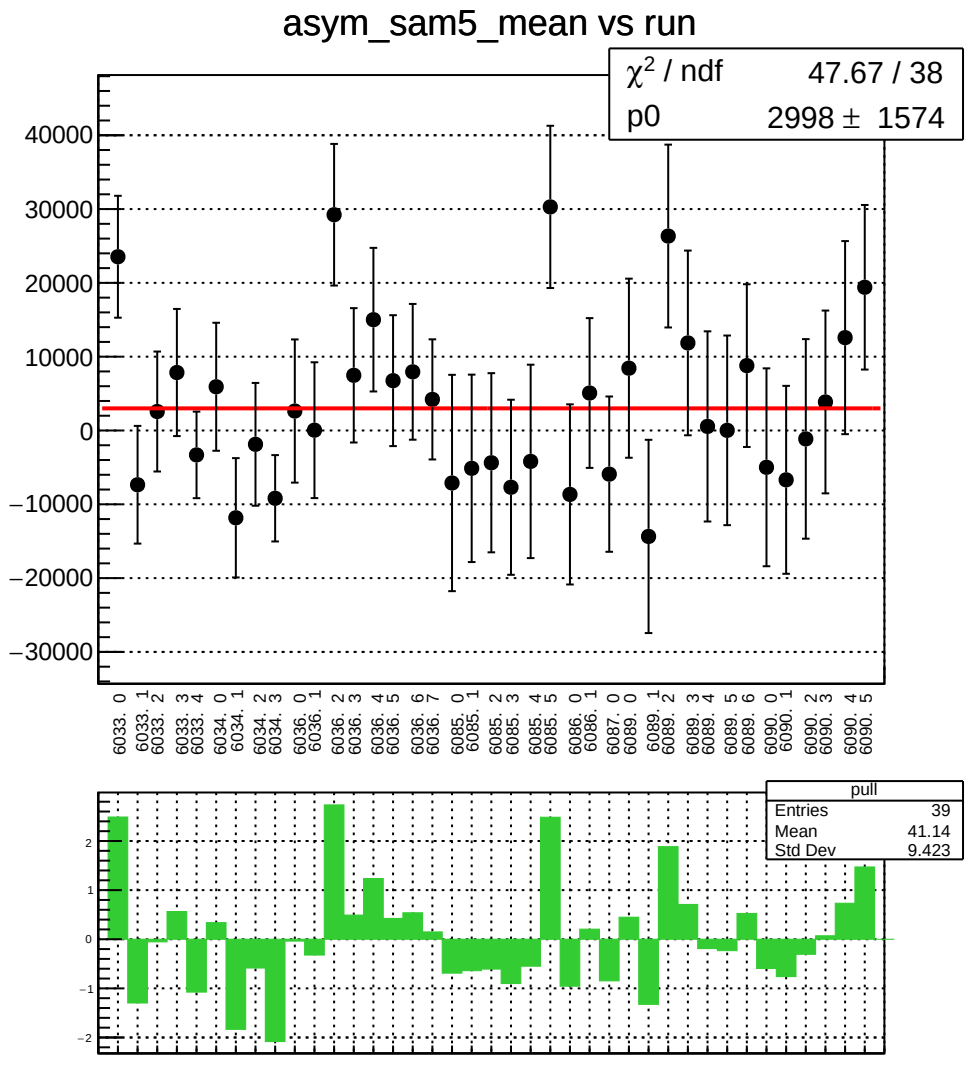

asym_sam3_mean vs run
χ² / ndf 35.54 / 38
p0 22.63 ± 2512
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 13.8
Std Dev 26.48
2
1
0
−1
−2

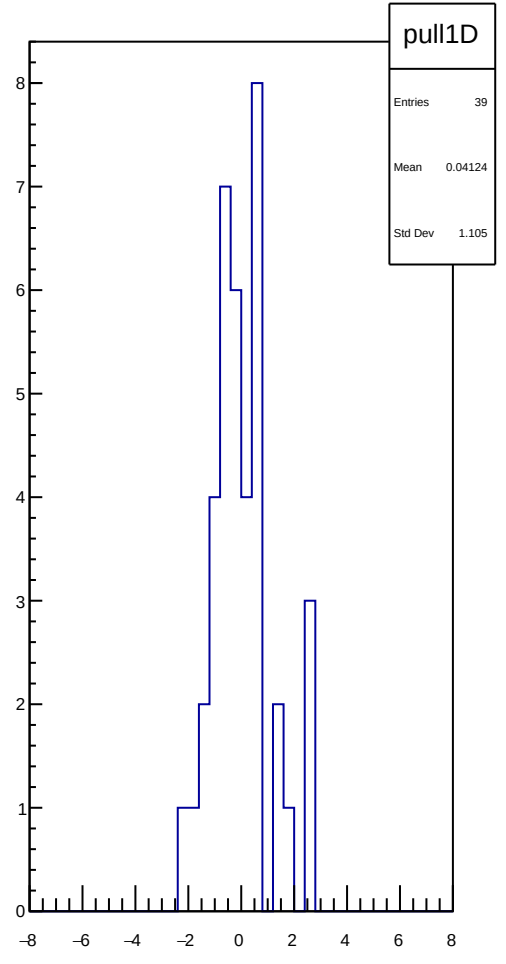

pull1D
Entries 39
Mean −0.03597
Std Dev 0.9539
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

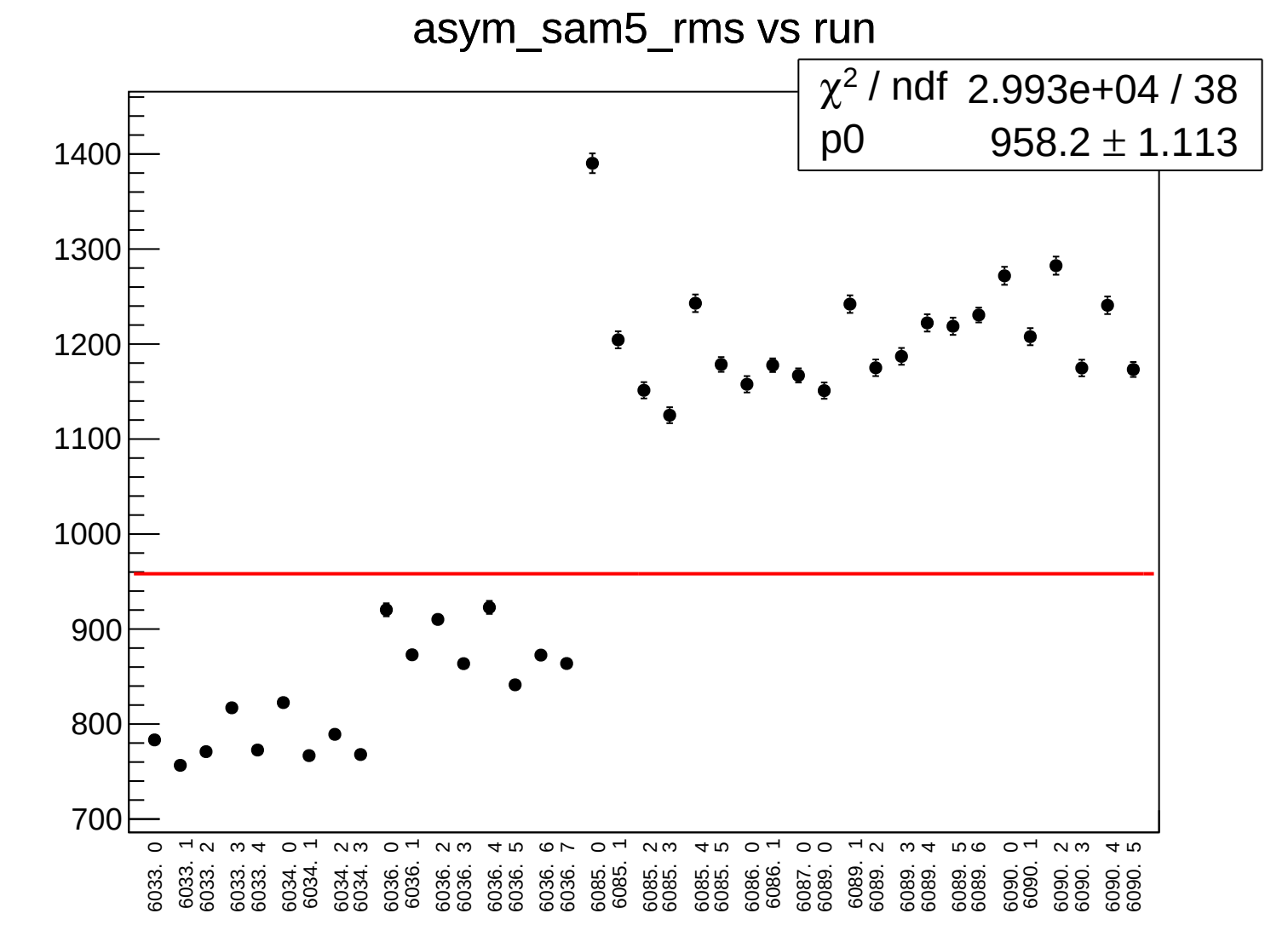

asym_sam3_rms vs run
χ² / ndf 1.578e+04 / 38
p0 1544 ± 1.776
2200
2000
1800
1600
1400
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

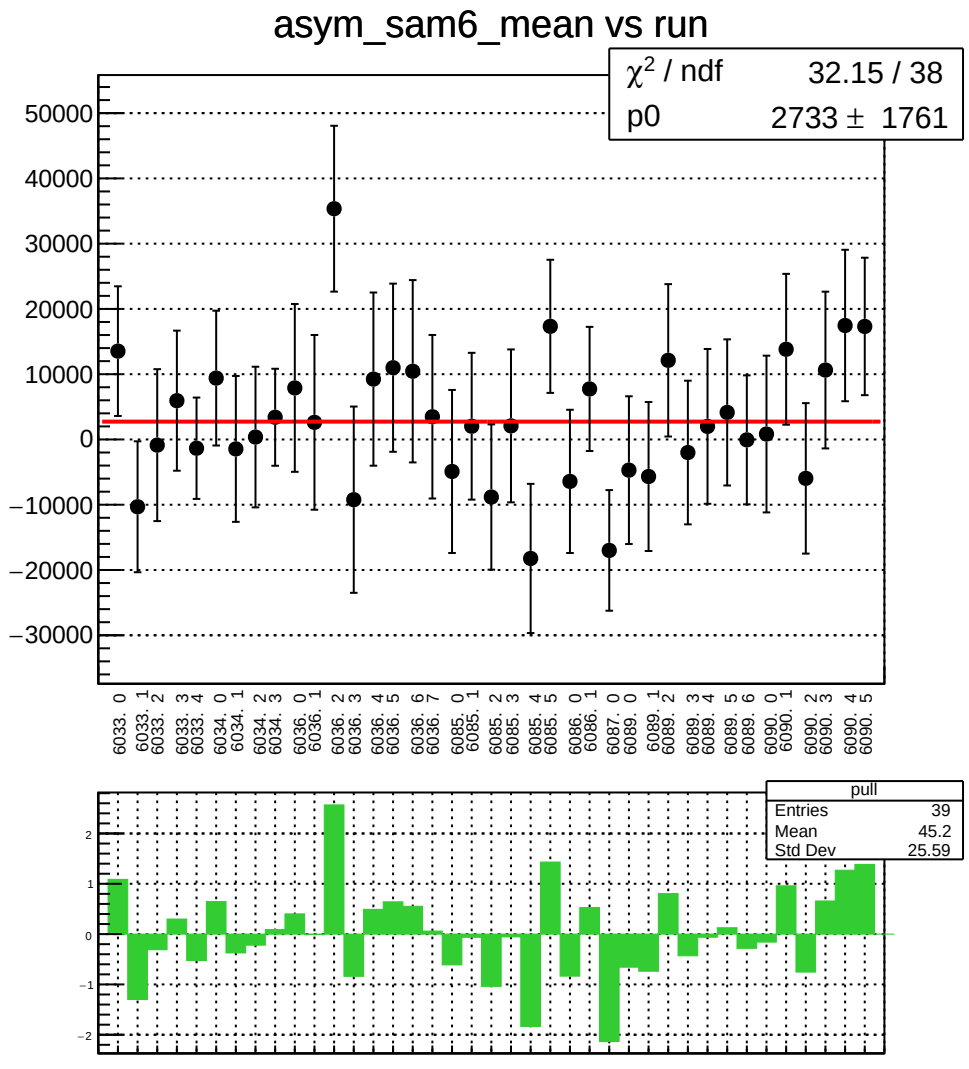

asym_sam4_mean vs run
×10^3
χ^2 / ndf 38.77 / 38
p0 3445 ± 4874
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −315.7
Std Dev 329.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.001959
Std Dev 0.9971
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

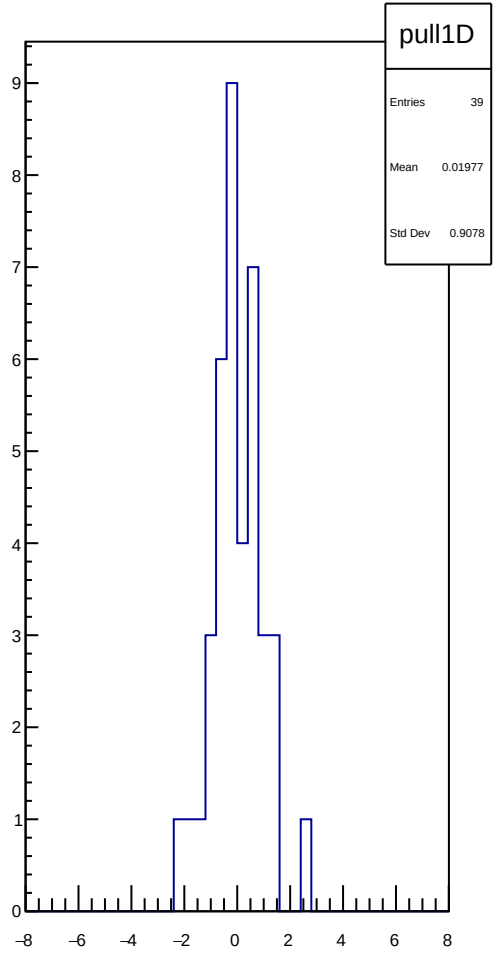

asym_sam4_rms vs run
χ² / ndf 2270 / 38
p0 3023 ± 3.447
3500
3400
3300
3200
3100
3000
2900
2800
2700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

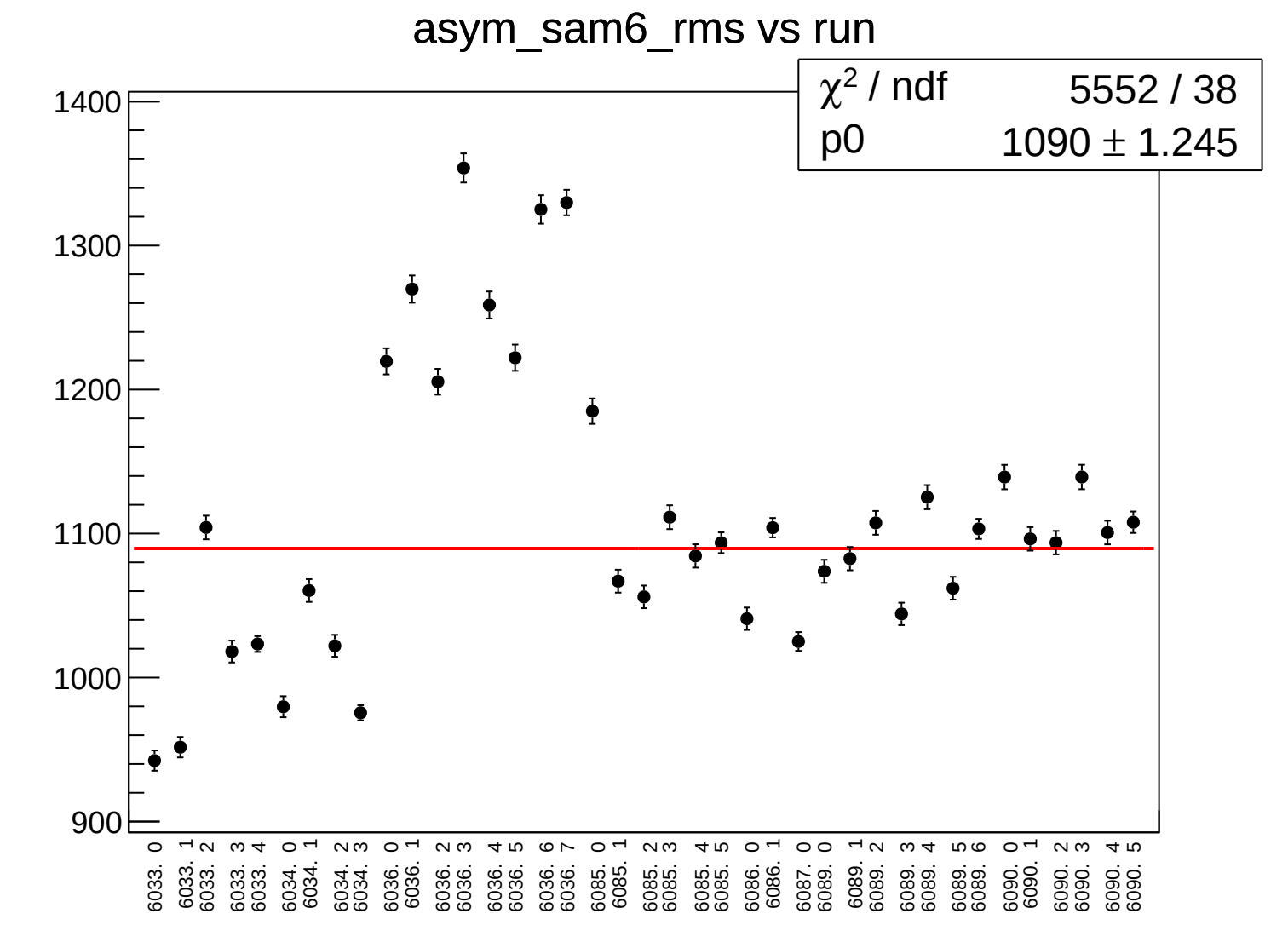

asym_sam5_mean vs run
χ² / ndf 47.67 / 38
p0 2998 ± 1574
40000
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 41.14
Std Dev 9.423
2
1
0
−1
−2

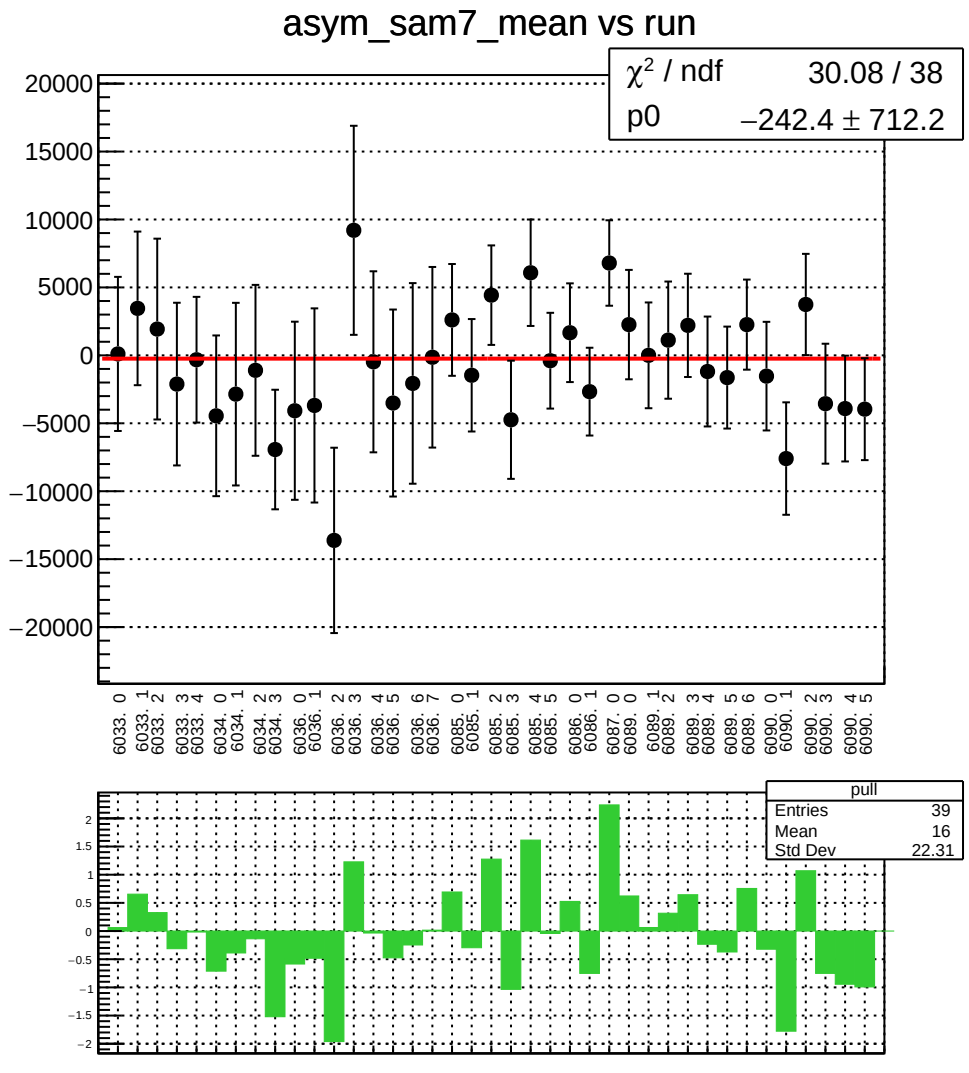

pull1D
Entries 39
Mean 0.04124
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

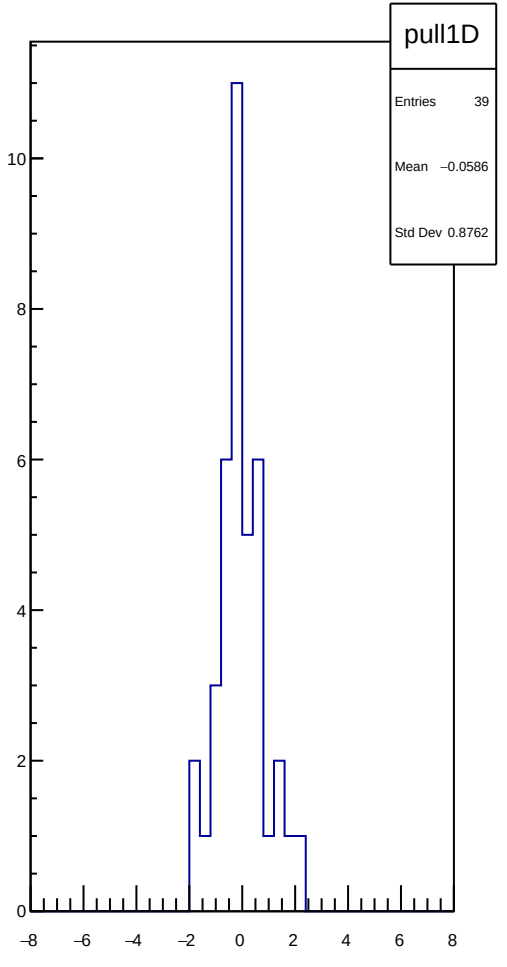

asym_sam5_rms vs run
χ² / ndf 2.993e+04 / 38
p0 958.2 ± 1.113
1400
1300
1200
1100
1000
900
800
700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

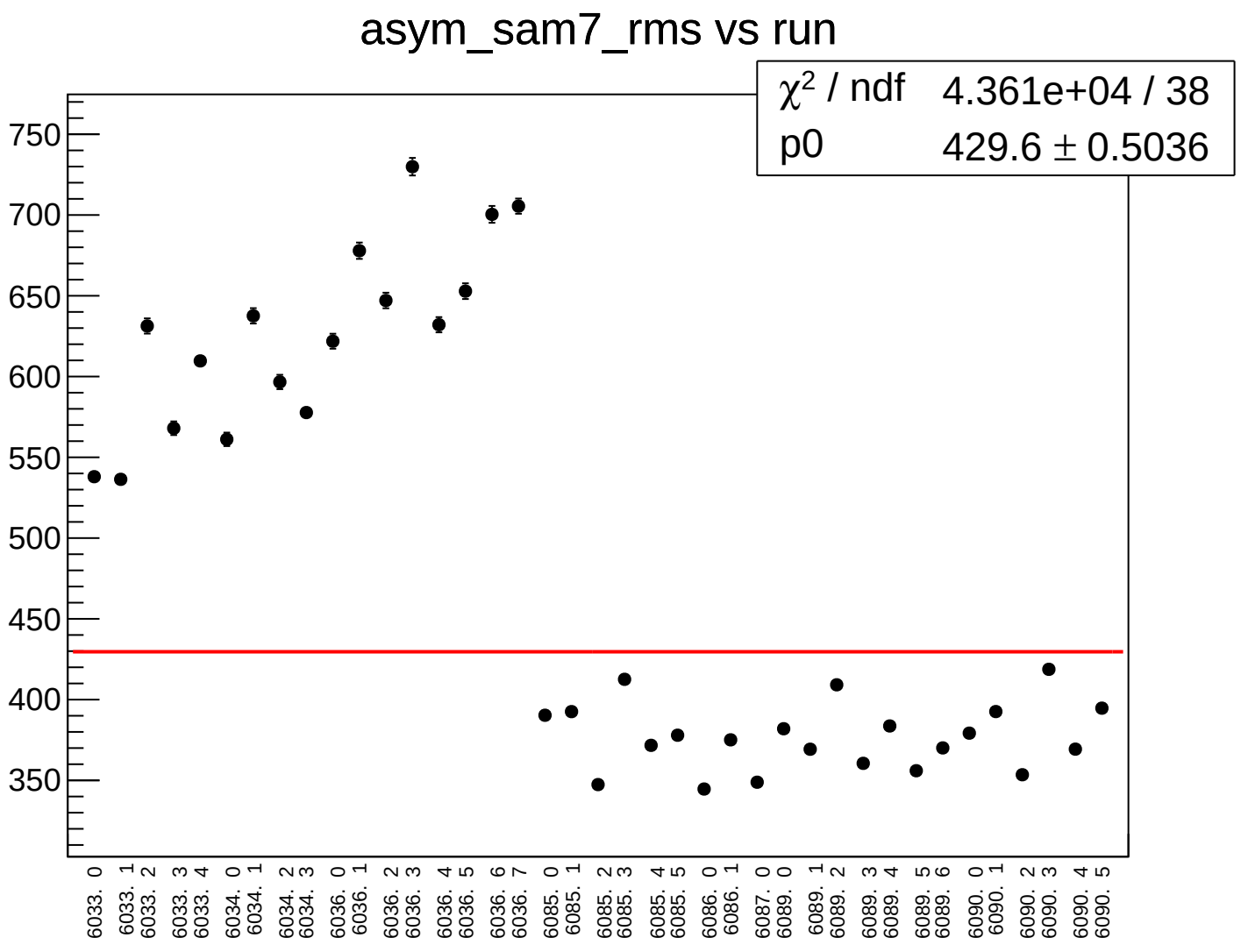

asym_sam6_mean vs run
χ² / ndf 32.15 / 38
p0 2733 ± 1761
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 45.2
Std Dev 25.59
2
1
0
−1
−2

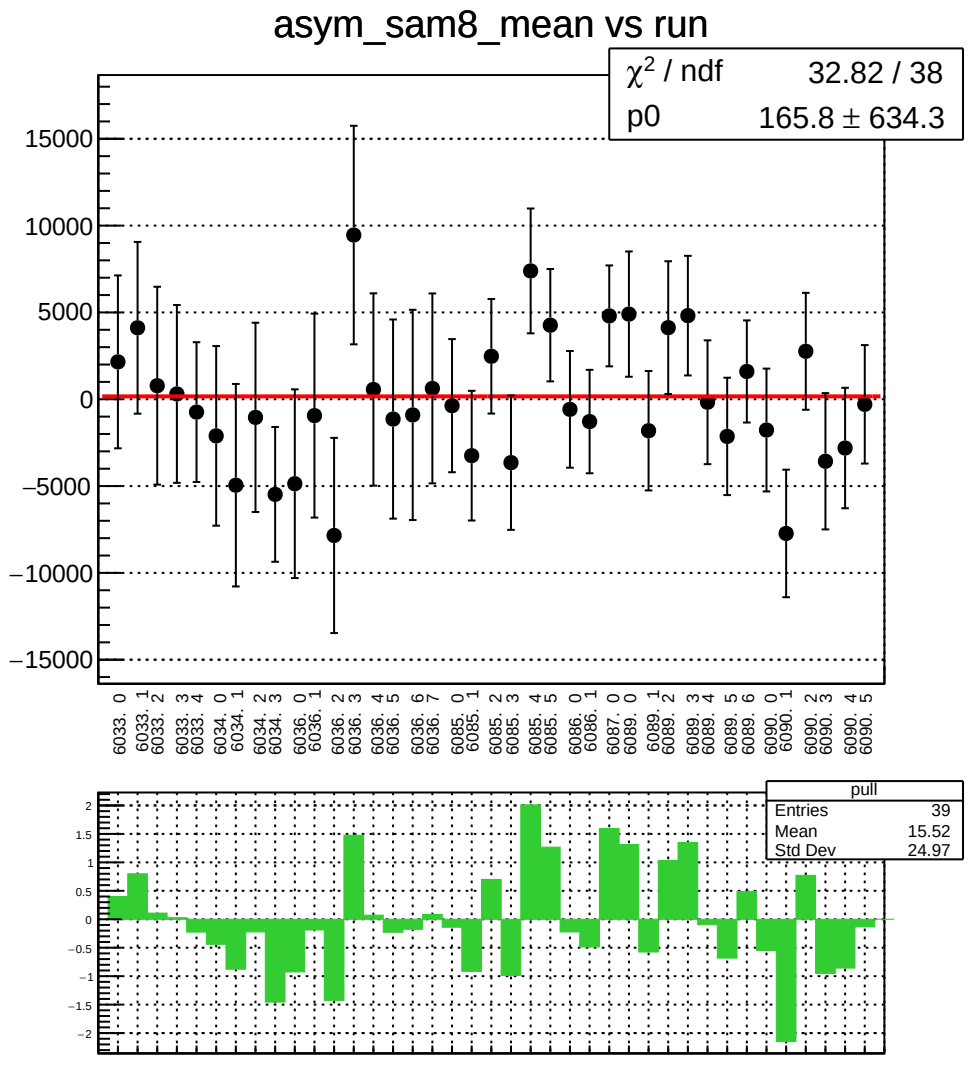

pull1D
Entries 39
Mean 0.01977
Std Dev 0.9078
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

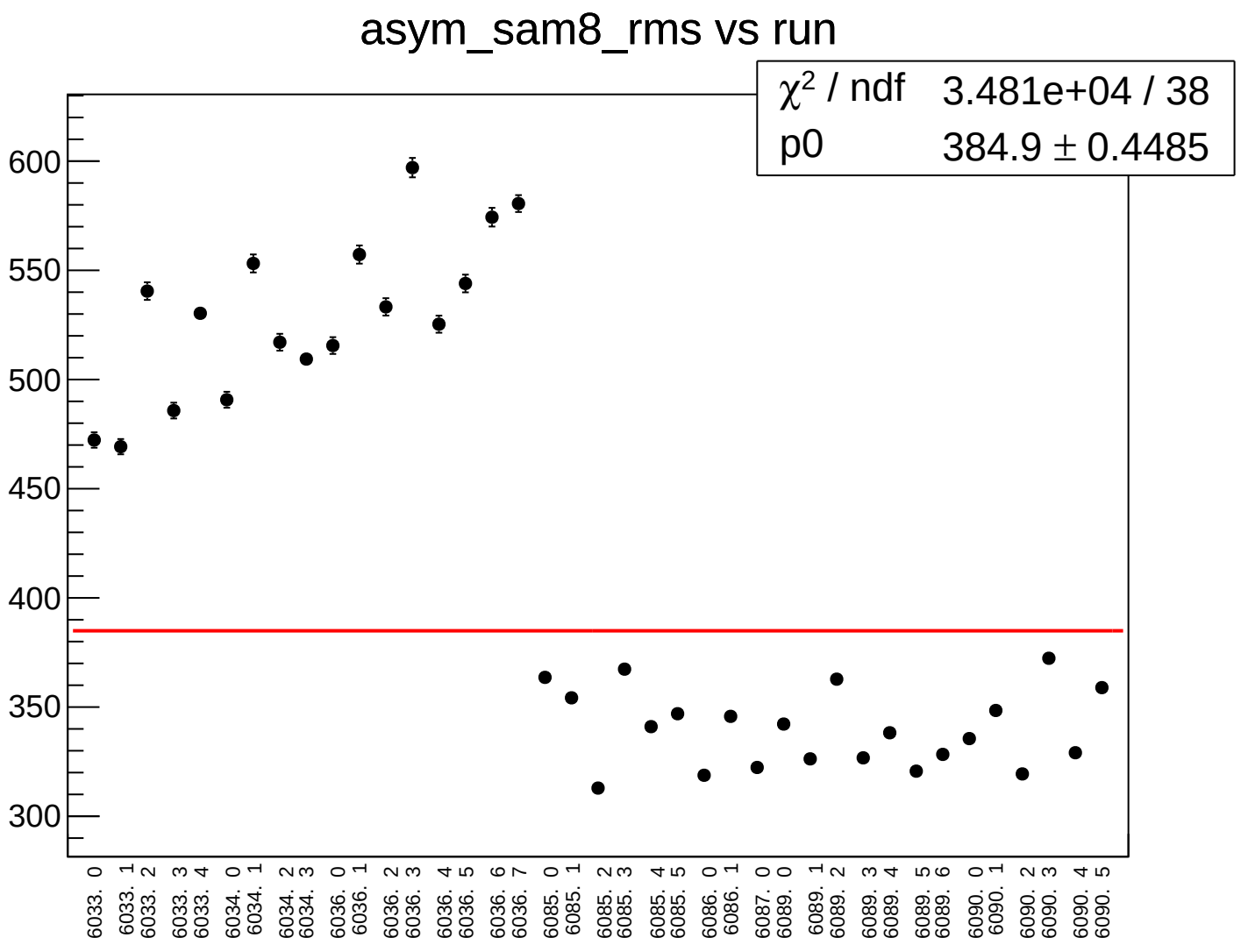

asym_sam6_rms vs run
χ² / ndf 5552 / 38
p0 1090 ± 1.245
1400
1300
1200
1100
1000
900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

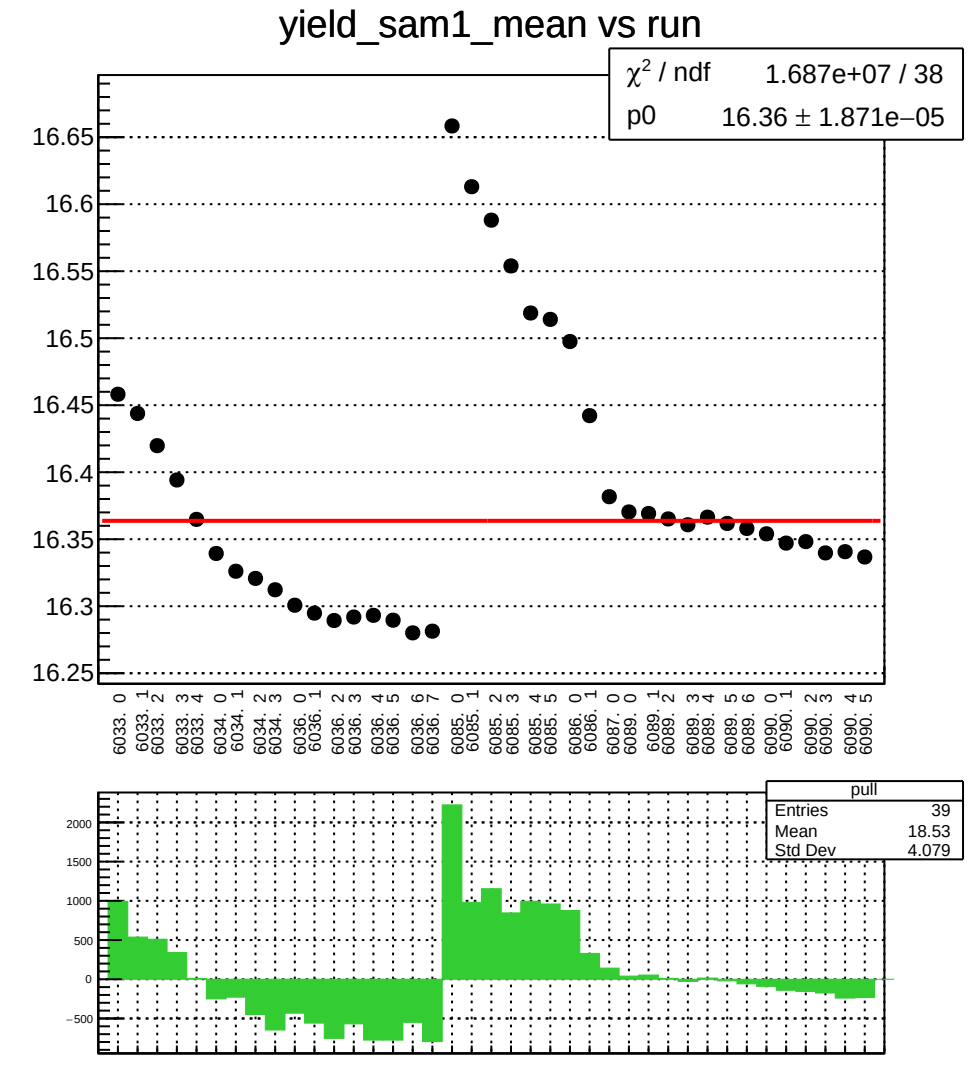

asym_sam7_mean vs run
χ² / ndf 30.08 / 38
p0 −242.4 ± 712.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 16
Std Dev 22.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

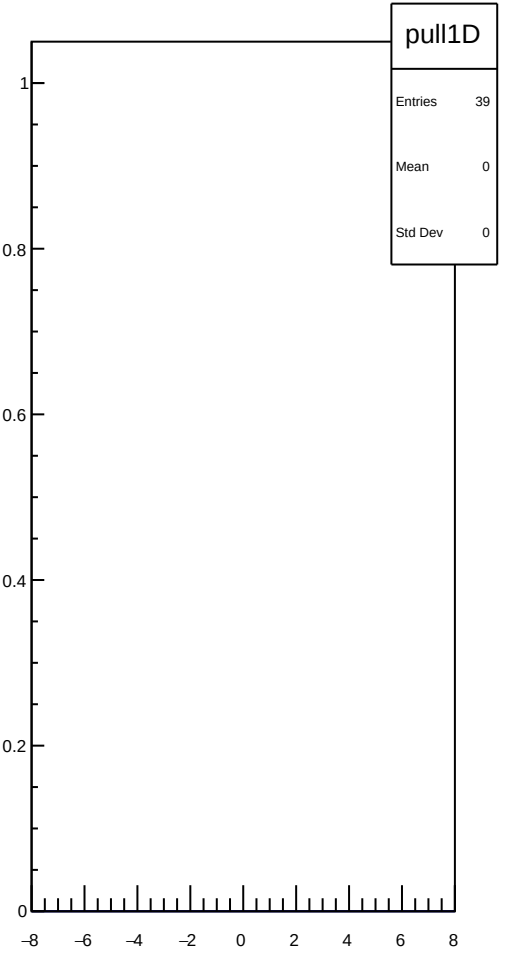

pull1D
Entries 39
Mean −0.0586
Std Dev 0.8762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

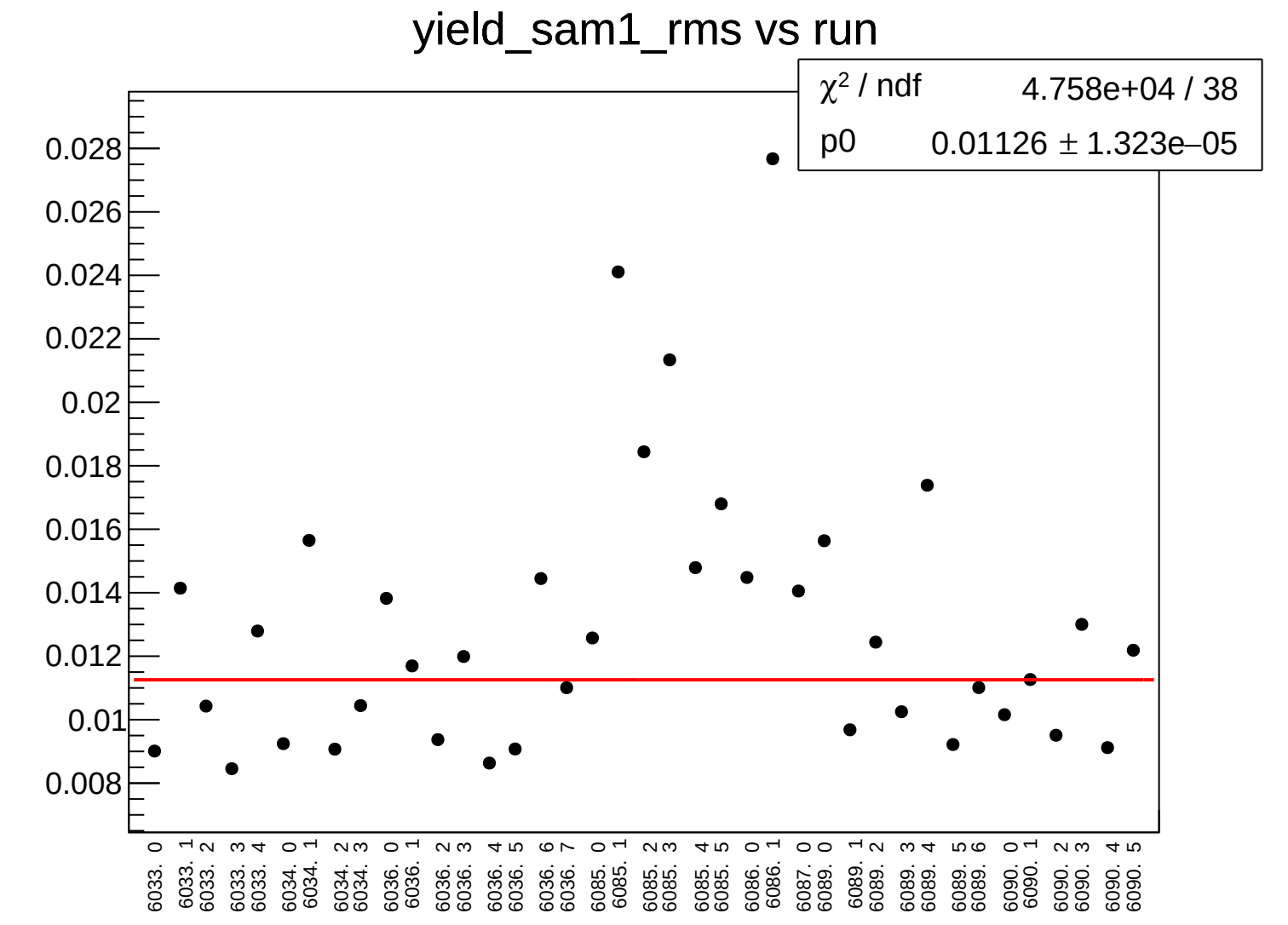

asym_sam7_rms vs run
χ² / ndf 4.361e+04 / 38
p0 429.6 ± 0.5036
750
700
650
600
550
500
450
400
350
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

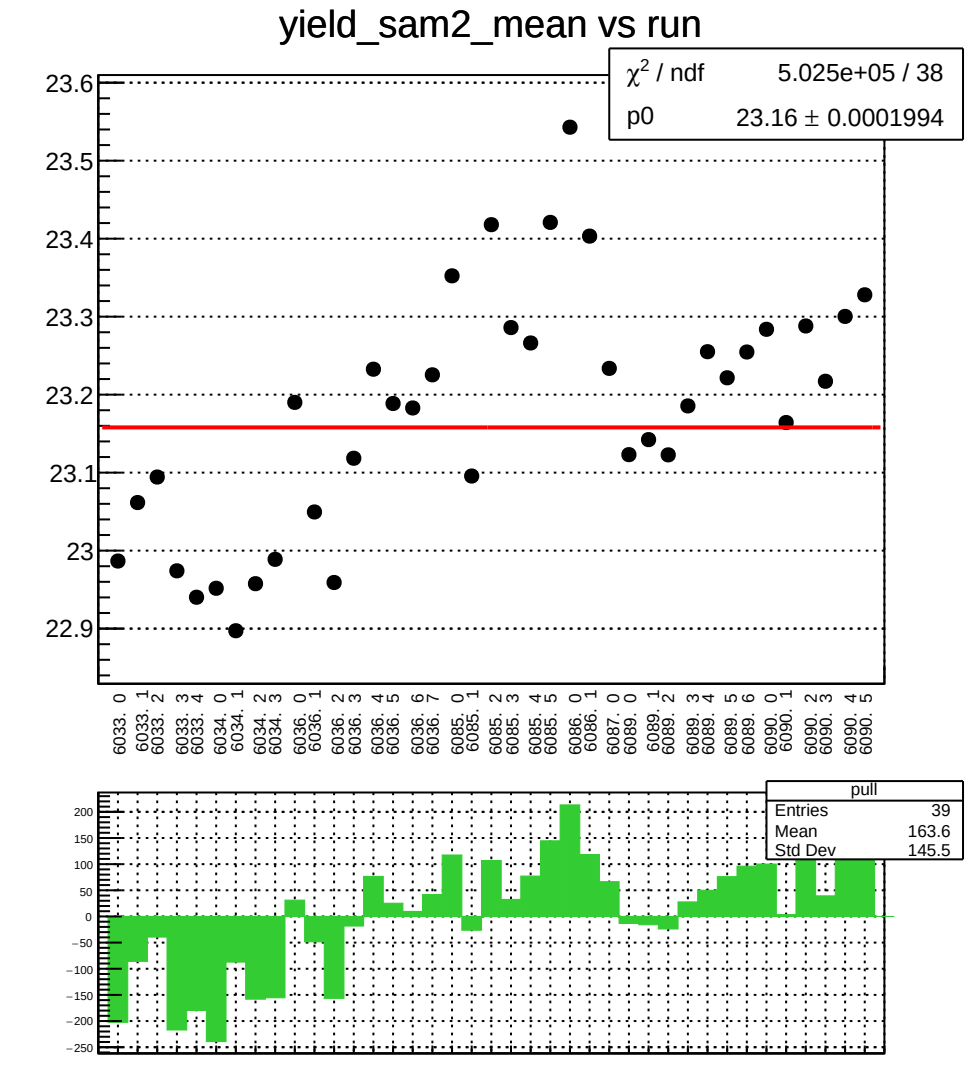

asym_sam8_mean vs run
χ² / ndf 32.82 / 38
p0 165.8 ± 634.3
15000
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 15.52
Std Dev 24.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.03615
Std Dev 0.9166
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

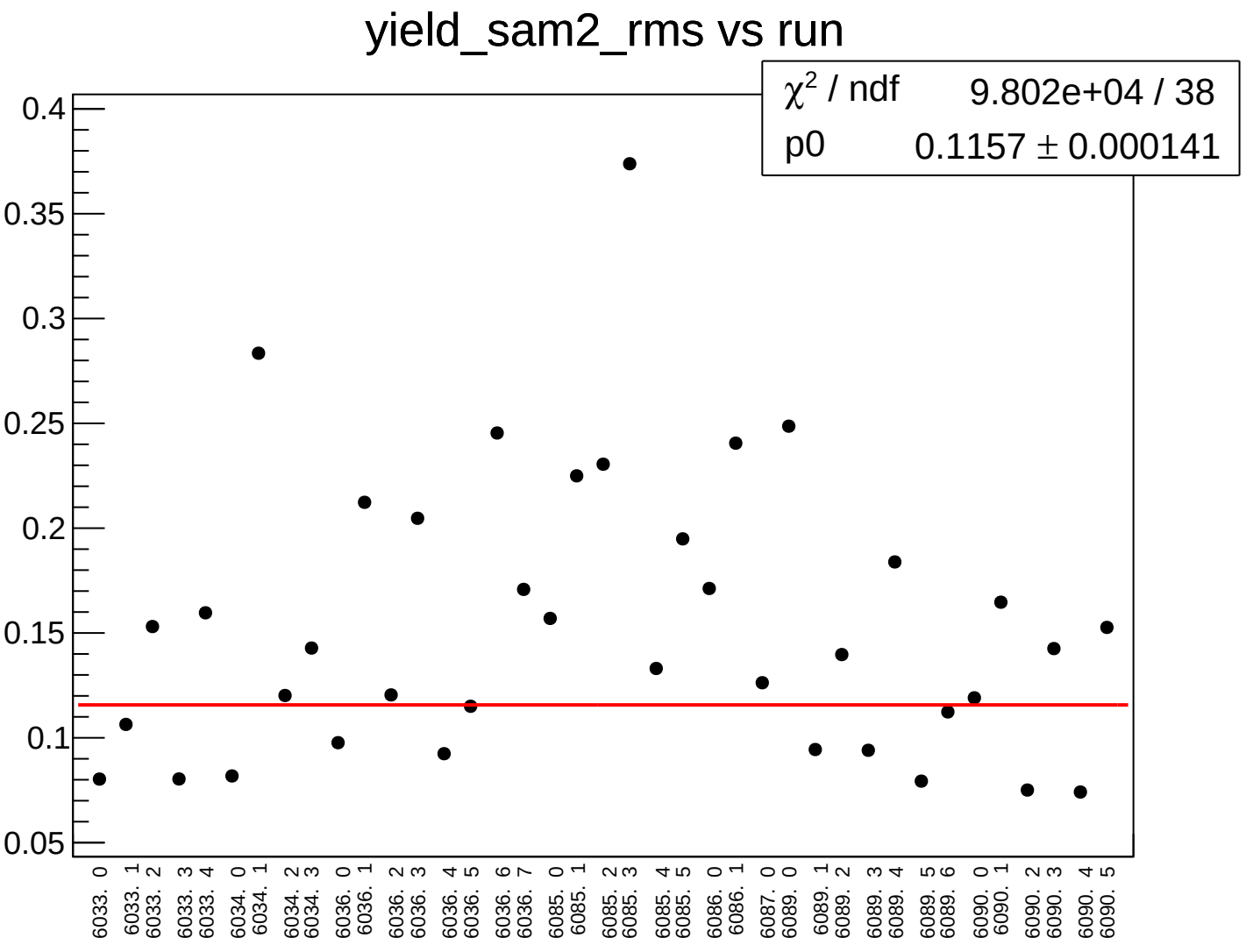

asym_sam8_rms vs run
χ² / ndf 3.481e+04 / 38
p0 384.9 ± 0.4485
600
550
500
450
400
350
300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

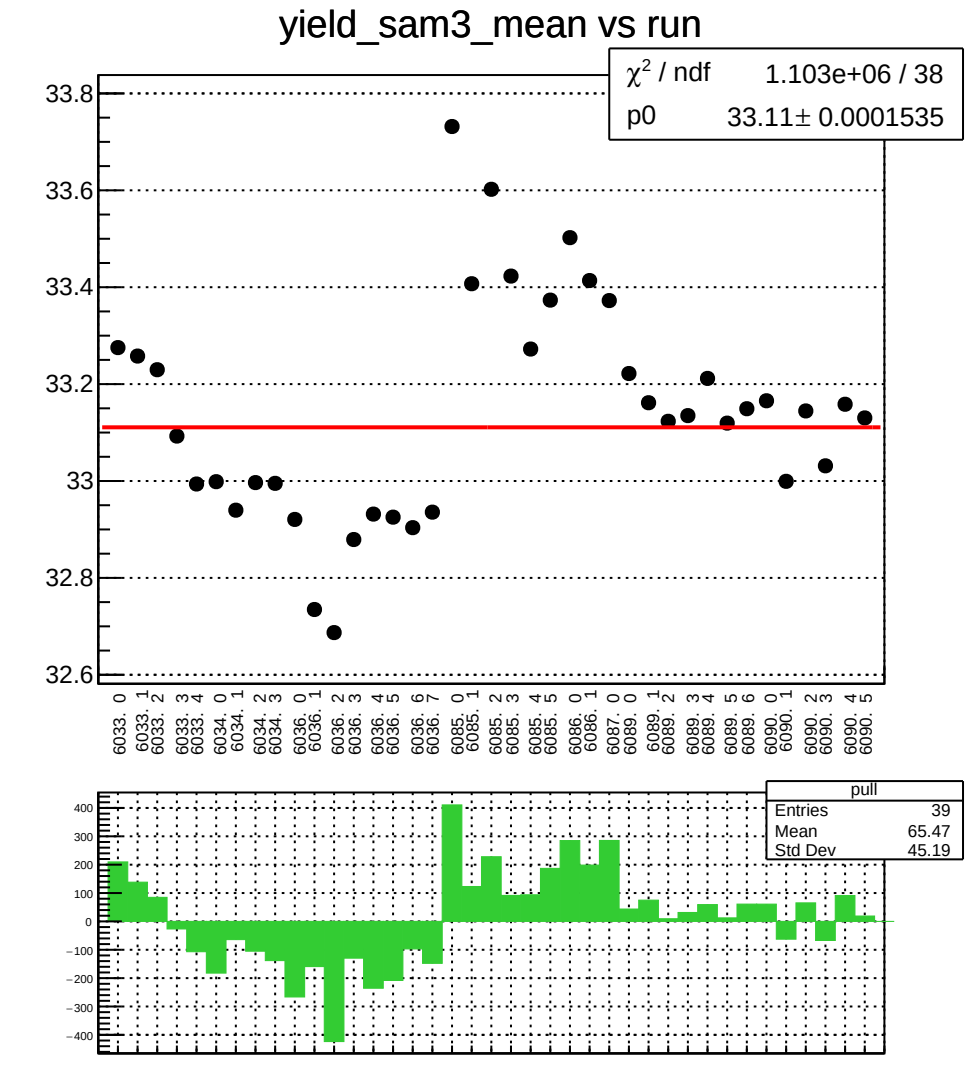

yield_sam1_mean vs run
χ² / ndf 1.687e+07 / 38
p0 16.36 ± 1.871e−05
16.65
16.6
16.55
16.5
16.45
16.4
16.35
16.3
16.25
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 18.53
Std Dev 4.079
2000
1500
1000
500
0
−500

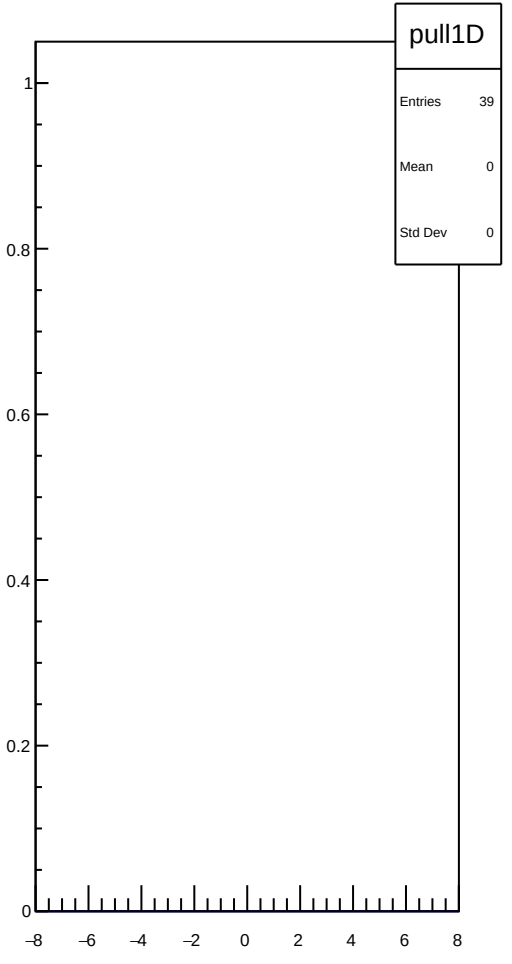

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

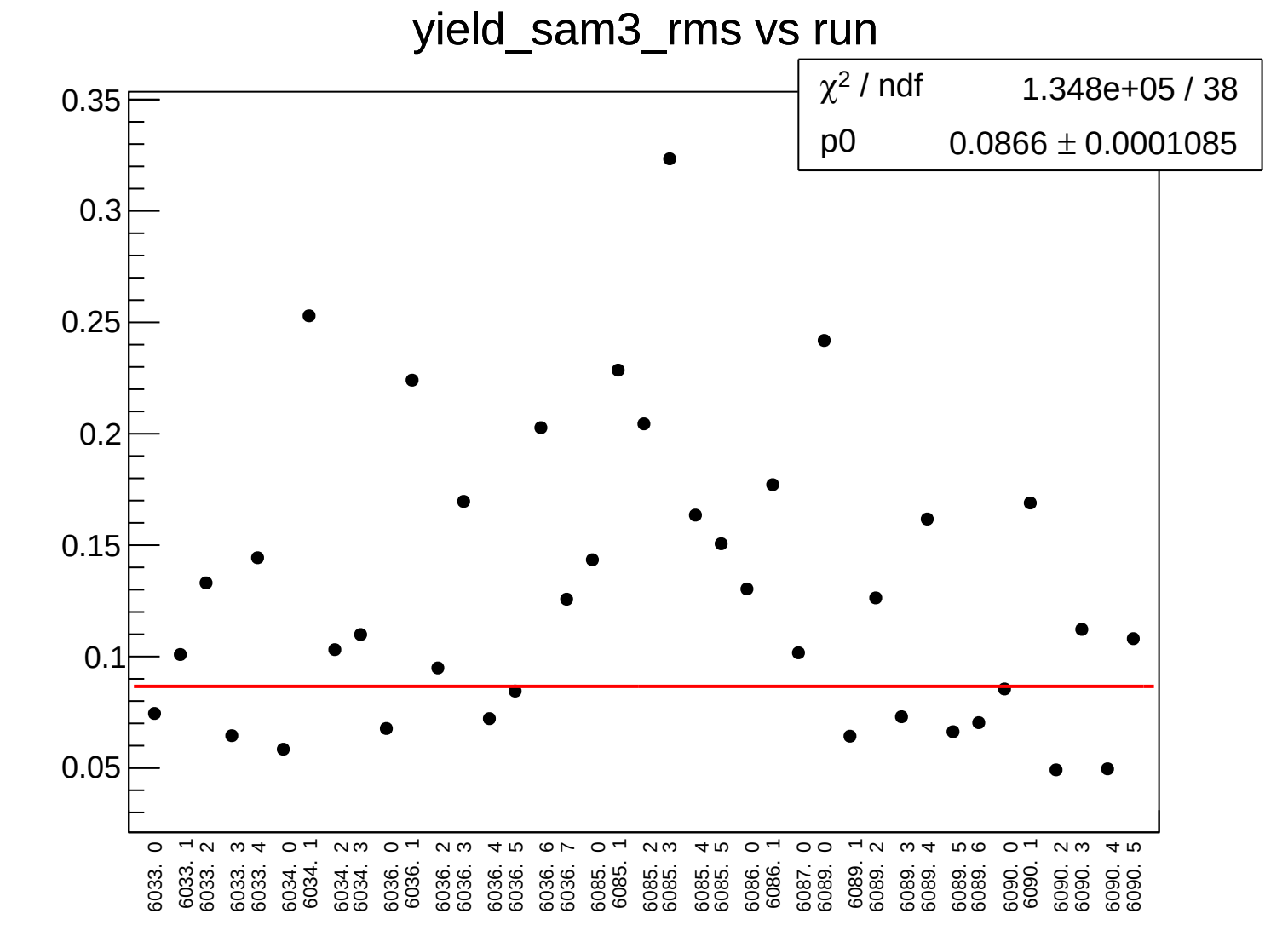

yield_sam1_rms vs run
χ² / ndf 4.758e+04 / 38
p0 0.01126 ± 1.323e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

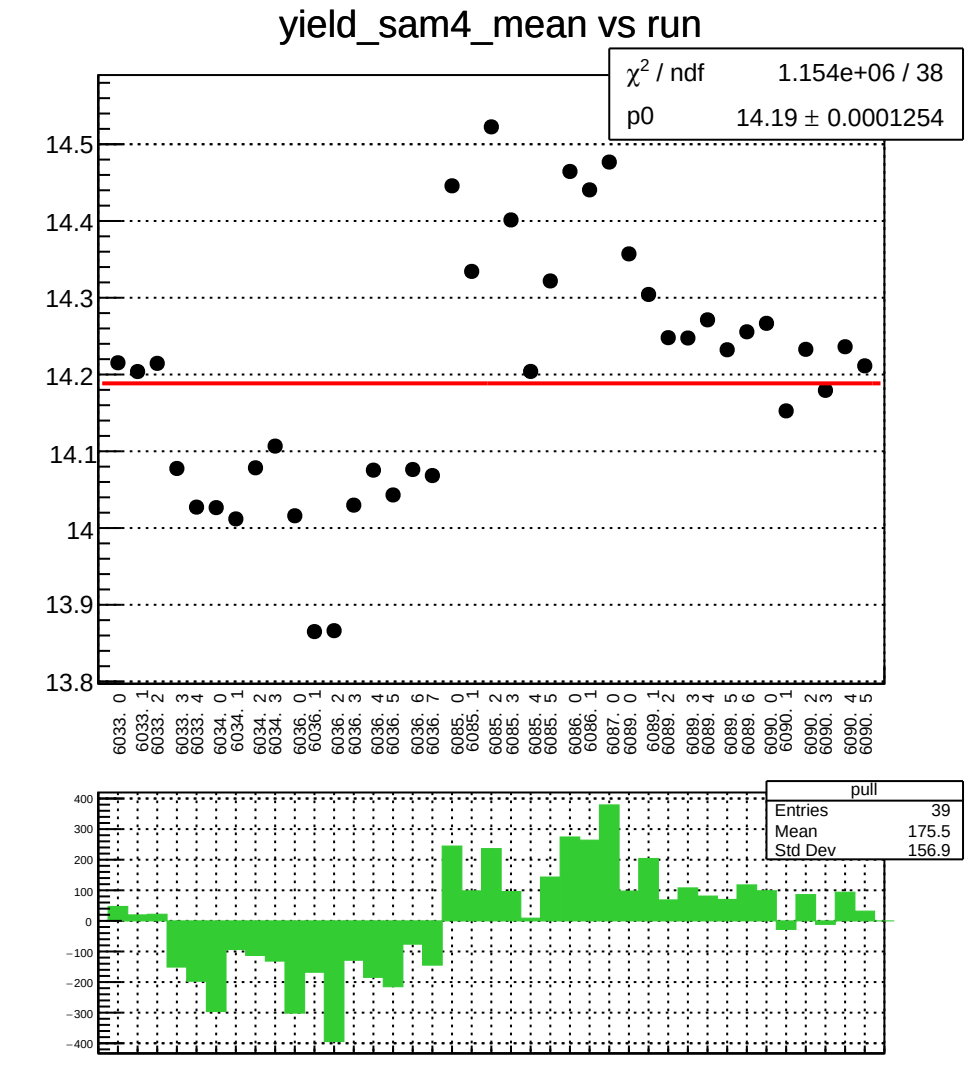

yield_sam2_mean vs run
χ² / ndf 5.025e+05 / 38
p0 23.16 ± 0.0001994
23.6
23.5
23.4
23.3
23.2
23.1
23
22.9
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 163.6
Std Dev 145.5
200
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 39
Mean 3.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

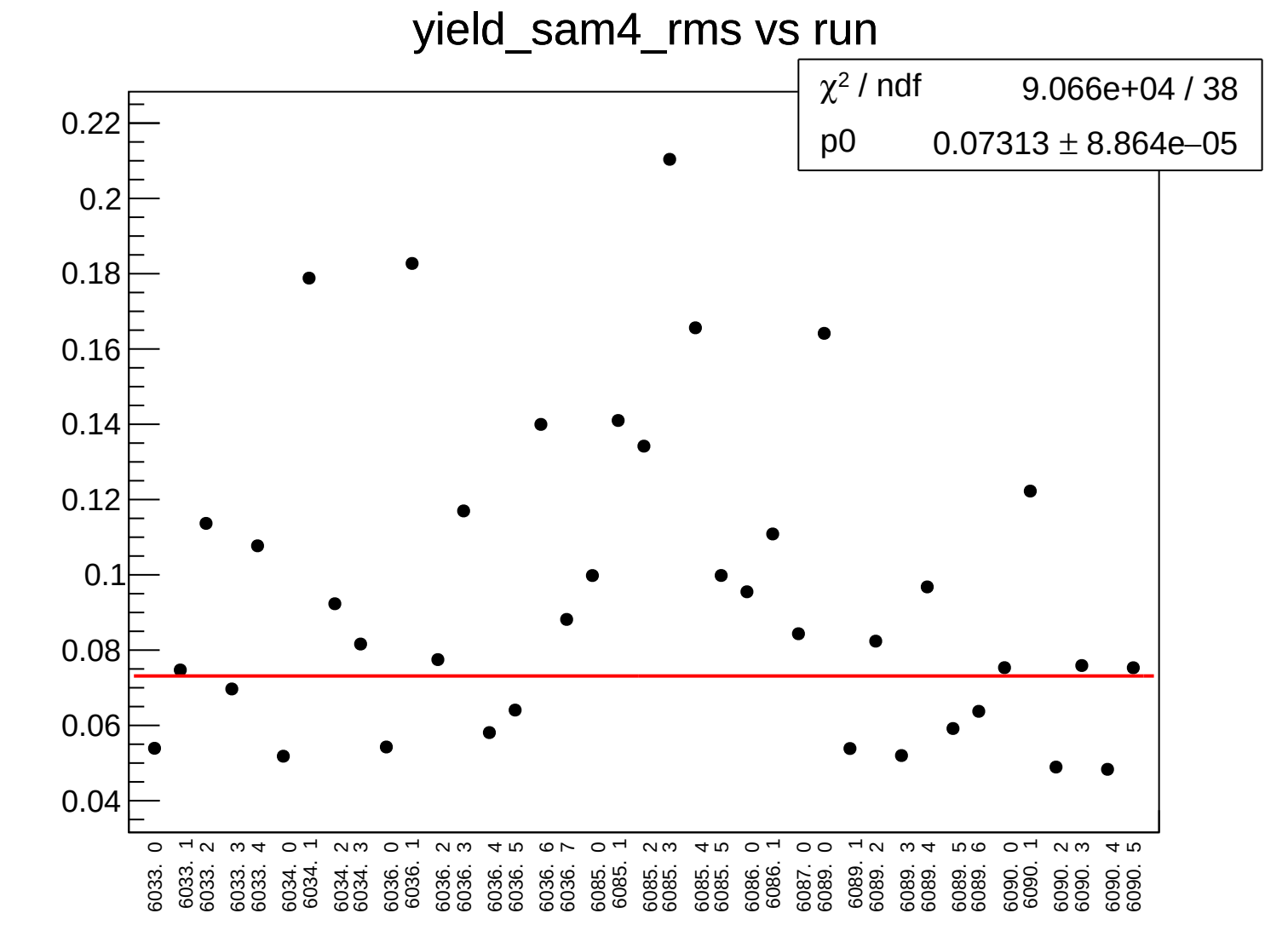

yield_sam2_rms vs run
χ² / ndf 9.802e+04 / 38
p0 0.1157 ± 0.000141
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

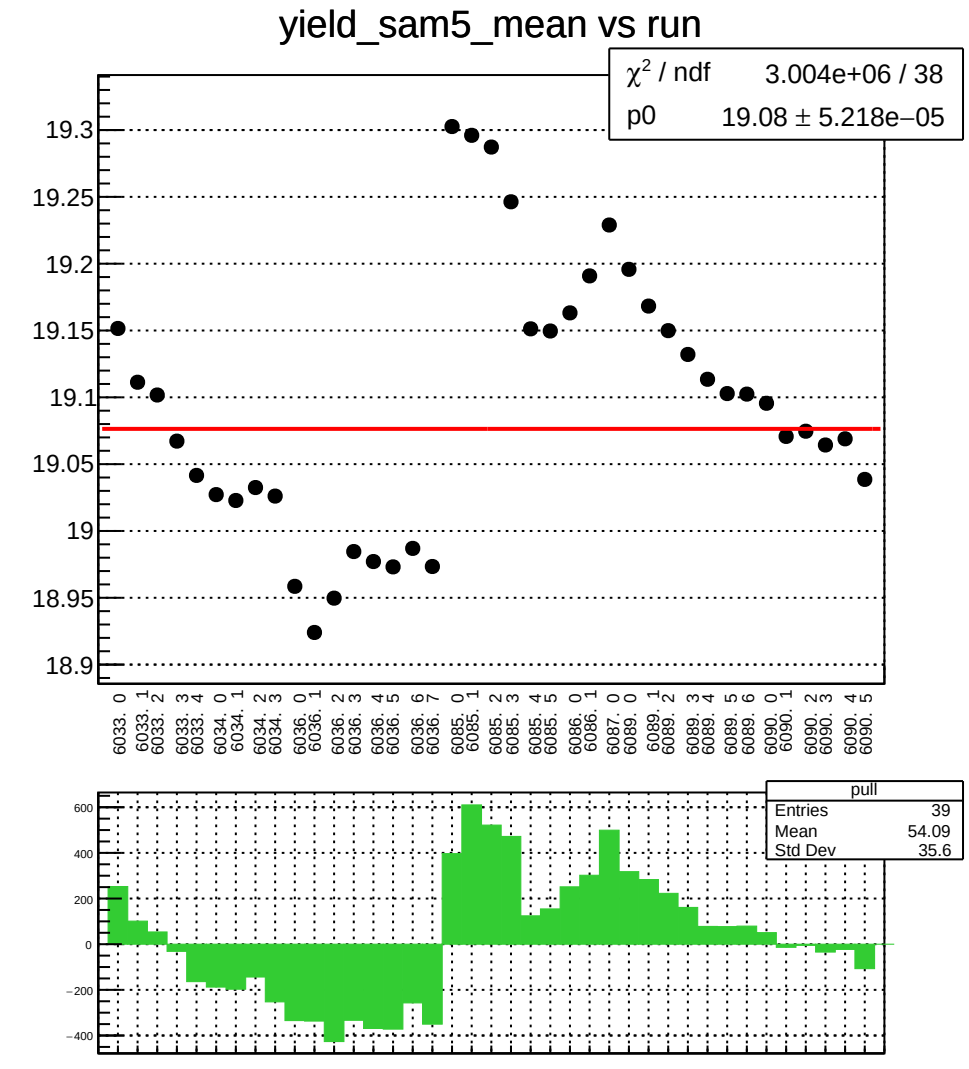

yield_sam3_mean vs run
χ² / ndf 1.103e+06 / 38
p0 33.11± 0.0001535
33.8
33.6
33.4
33.2
33
32.8
32.6
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 65.47
Std Dev 45.19
400
300
200
100
0
−100
−200
−300
−400

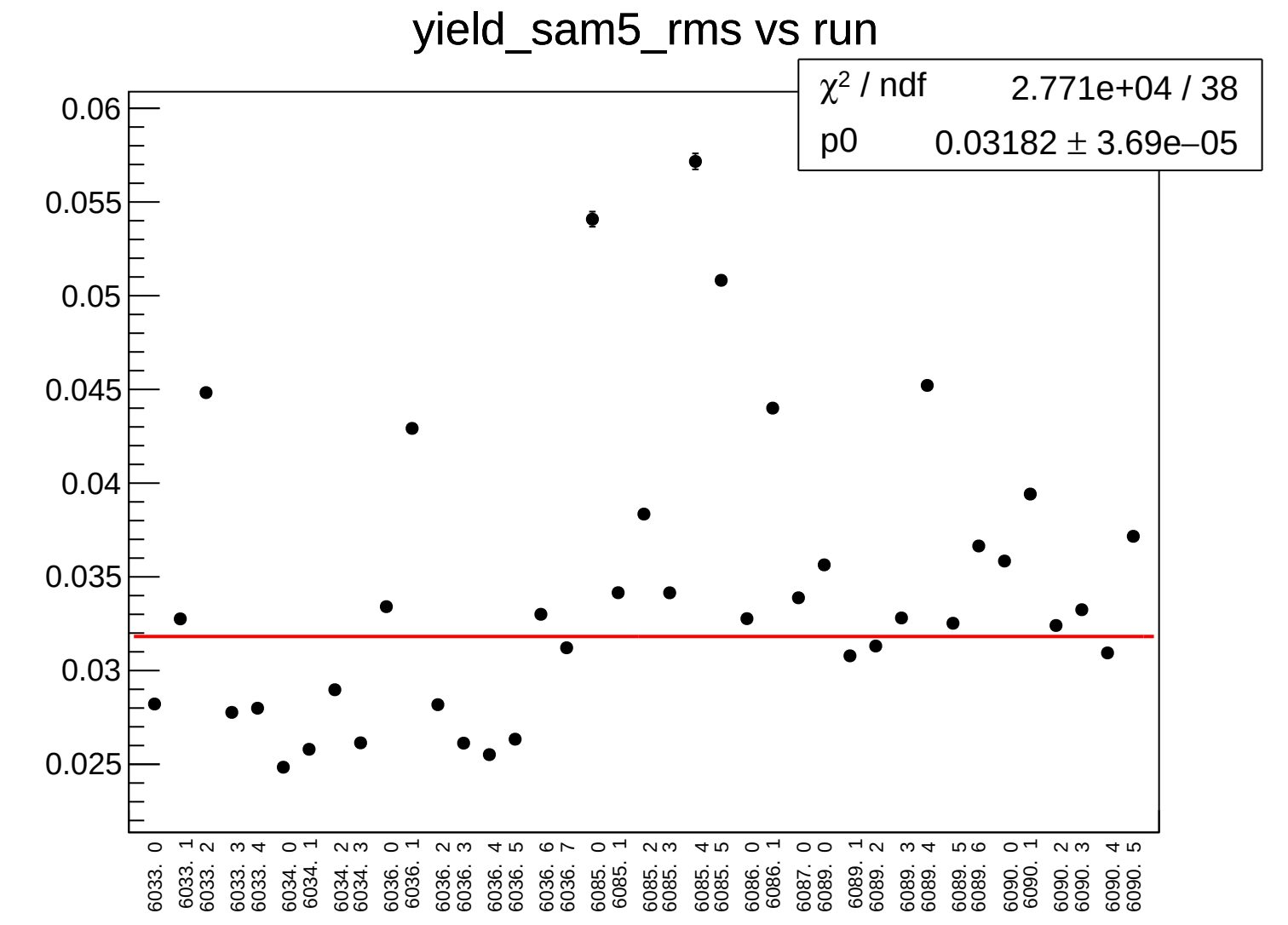

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

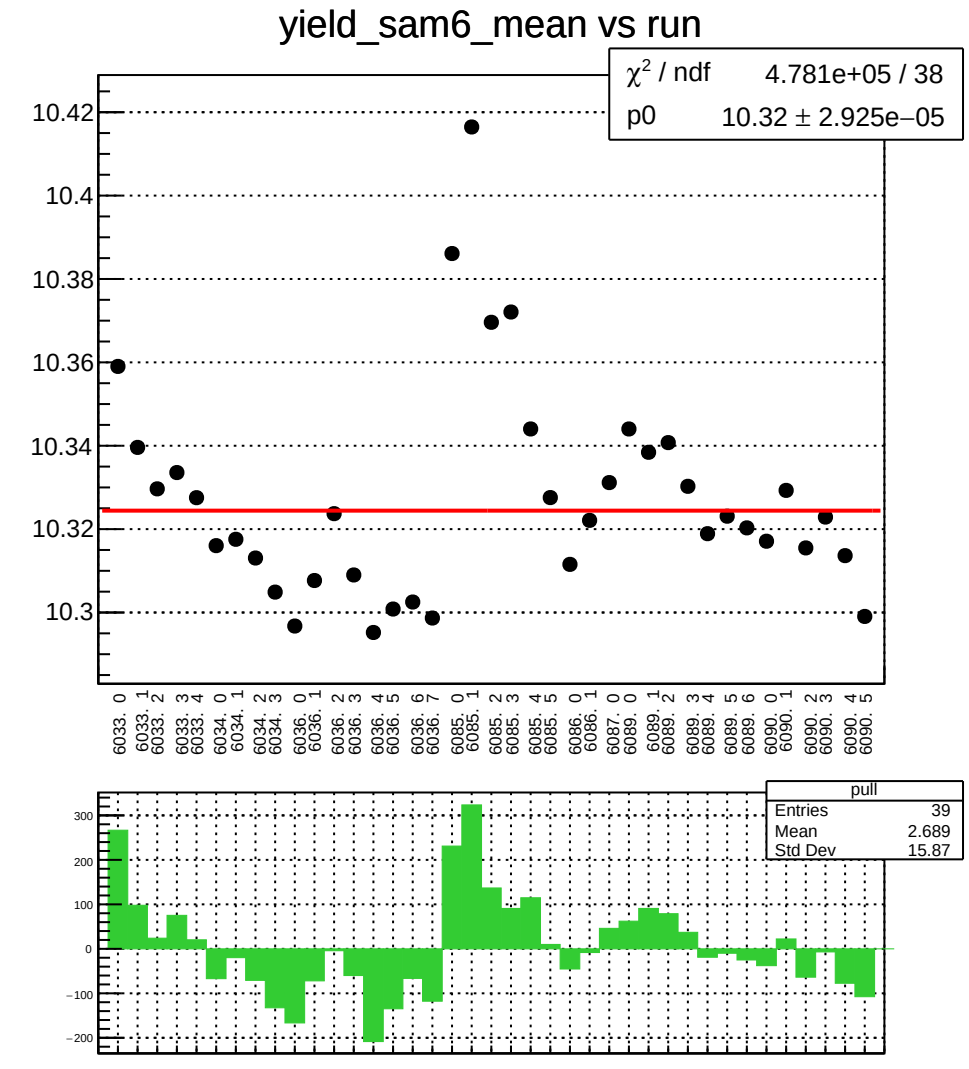

yield_sam3_rms vs run
χ² / ndf 1.348e+05 / 38
p0 0.0866 ± 0.0001085
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

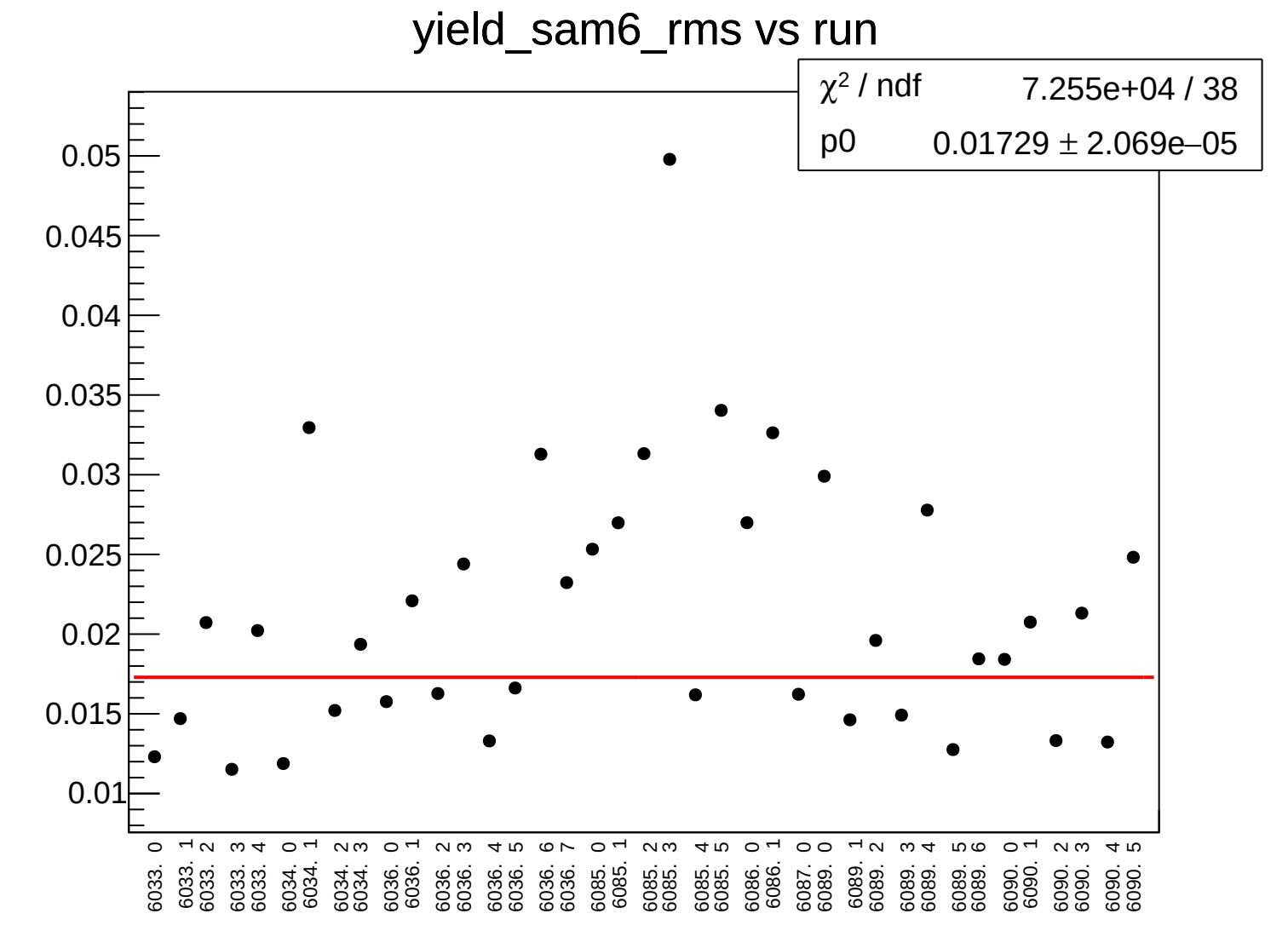

yield_sam4_mean vs run
χ² / ndf 1.154e+06 / 38
p0 14.19 ± 0.0001254
14.5
14.4
14.3
14.2
14.1
14
13.9
13.8
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 175.5
Std Dev 156.9
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

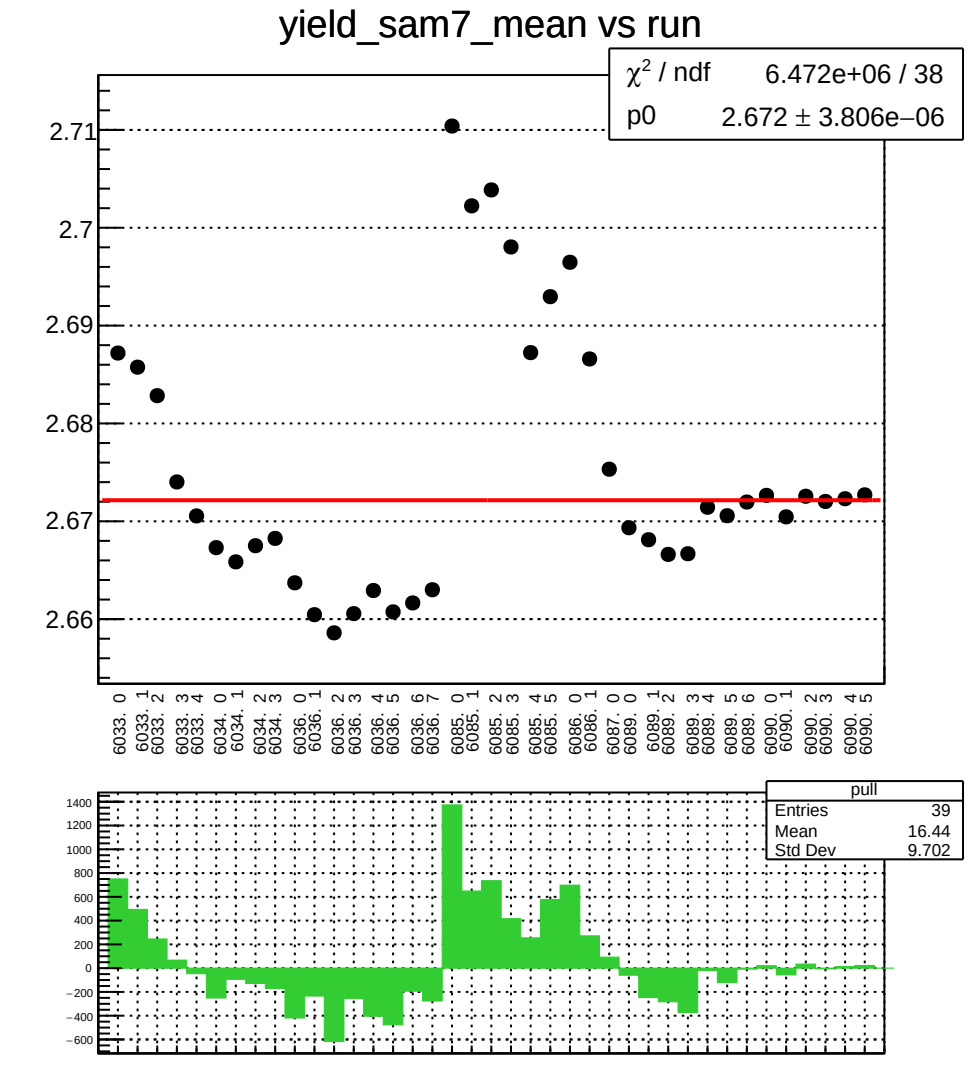

yield_sam4_rms vs run
χ² / ndf 9.066e+04 / 38
p0 0.07313 ± 8.864e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

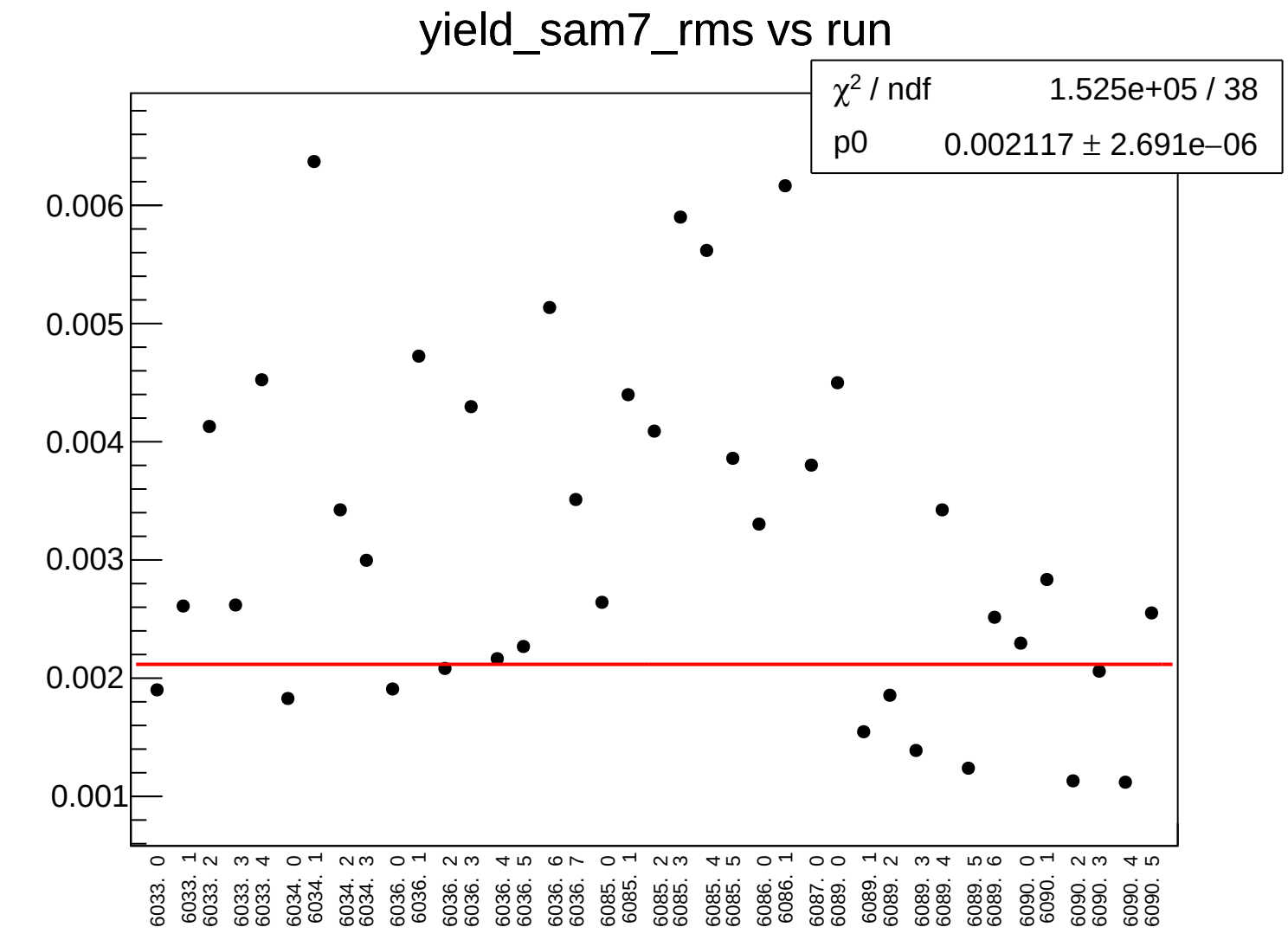

yield_sam5_mean vs run
χ² / ndf 3.004e+06 / 38
p0 19.08 ± 5.218e−05
19.3
19.25
19.2
19.15
19.1
19.05
19
18.95
18.9
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 54.09
Std Dev 35.6
600
400
200
0
−200
−400
pull1D
Entries 39
Mean −5.151
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

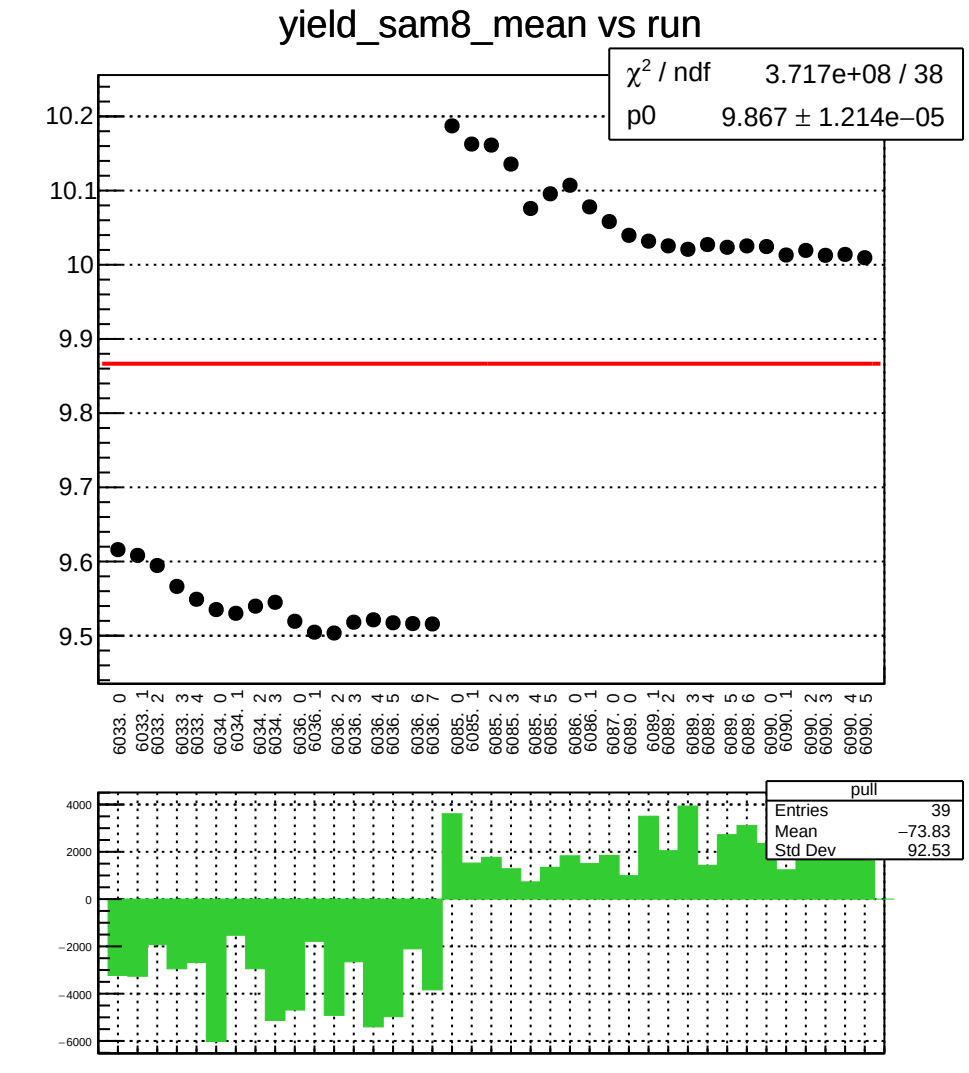

yield_sam5_rms vs run
χ² / ndf 2.771e+04 / 38
p0 0.03182 ± 3.69e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

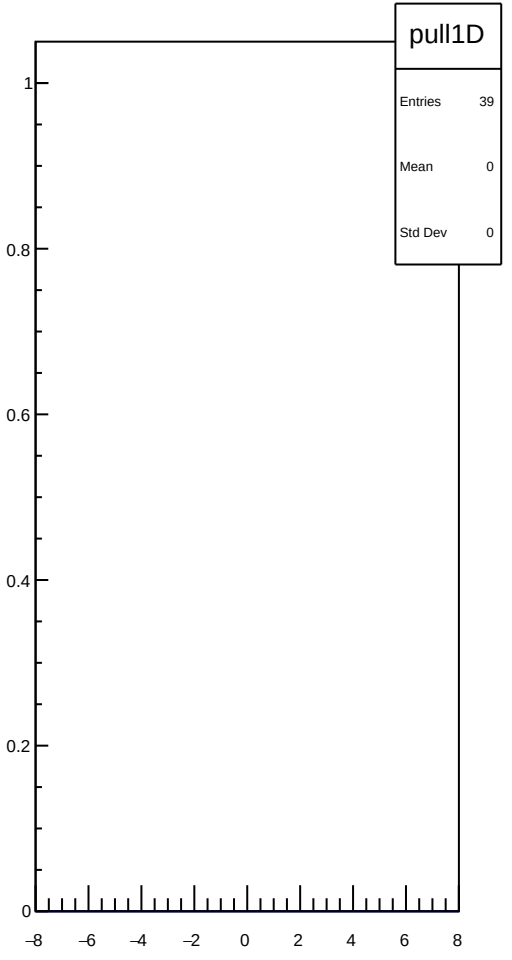

yield_sam6_mean vs run
χ² / ndf 4.781e+05 / 38
p0 10.32 ± 2.925e−05
10.42
10.4
10.38
10.36
10.34
10.32
10.3
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 2.689
Std Dev 15.87
300
200
100
0
−100
−200
pull1D
Entries 39
Mean −5.529
Std Dev 1.331
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

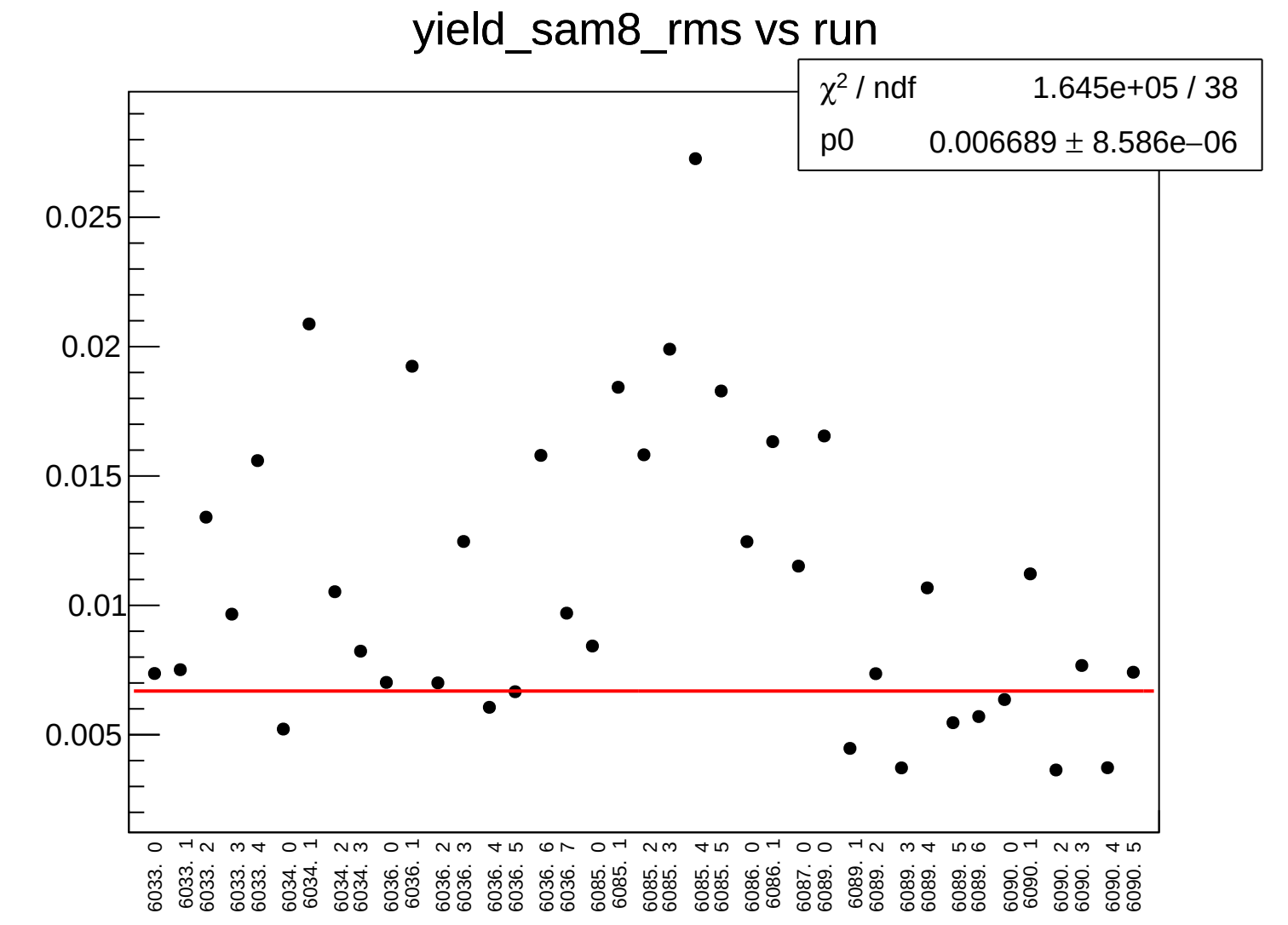

yield_sam6_rms vs run
χ² / ndf 7.255e+04 / 38
p0 0.01729 ± 2.069e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

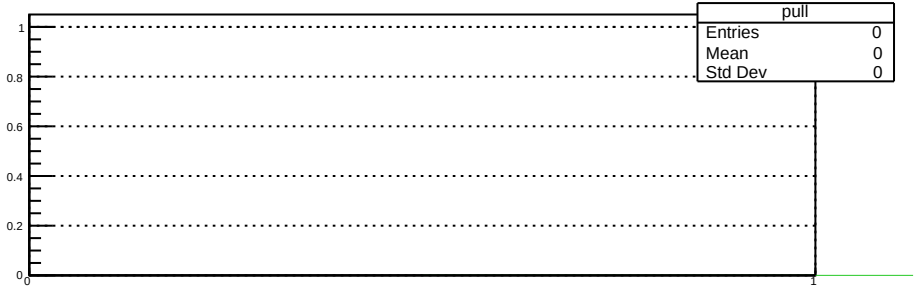

yield_sam7_mean vs run
χ² / ndf 6.472e+06 / 38
p0 2.672 ± 3.806e−06
2.71
2.7
2.69
2.68
2.67
2.66
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 16.44
Std Dev 9.702
1400
1200
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 39
Mean −5.711
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

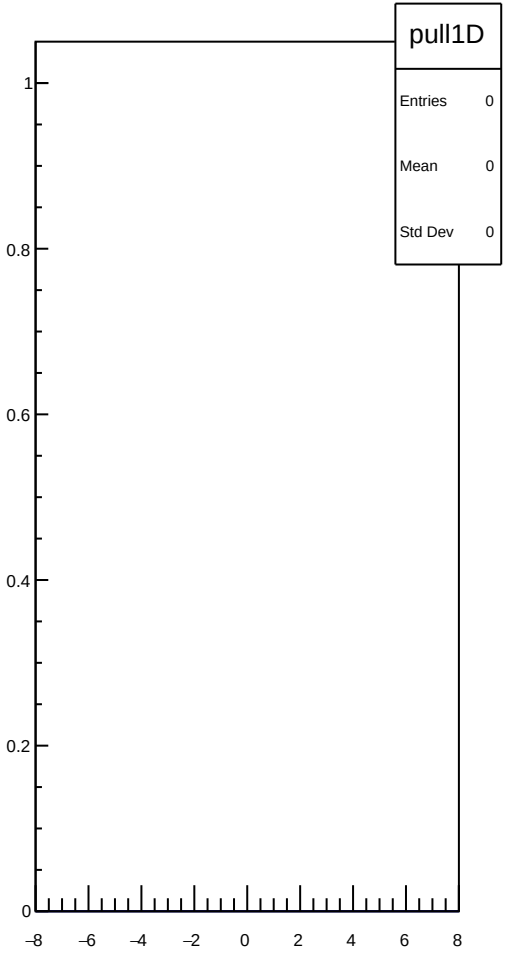

yield_sam7_rms vs run
χ² / ndf 1.525e+05 / 38
p0 0.002117 ± 2.691e−06
0.006
0.005
0.004
0.003
0.002
0.001
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

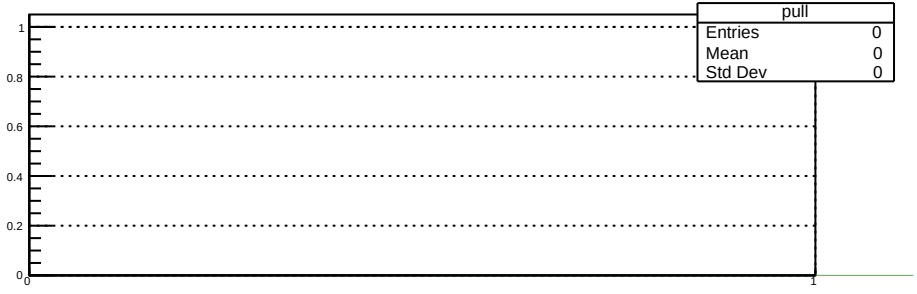

yield_sam8_mean vs run
χ² / ndf 3.717e+08 / 38
p0 9.867 ± 1.214e−05
10.2
10.1
10
9.9
9.8
9.7
9.6
9.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −73.83
Std Dev 92.53
4000
2000
0
−2000
−4000
−6000

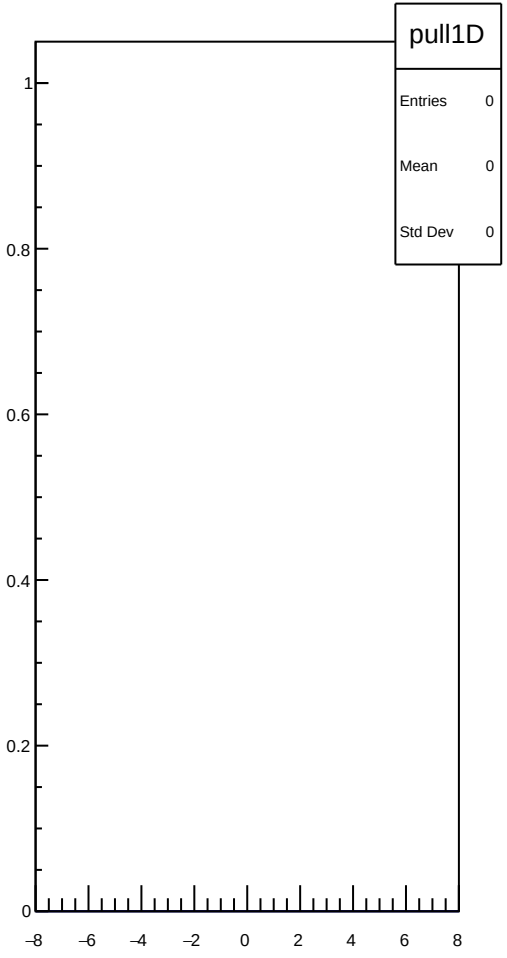

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

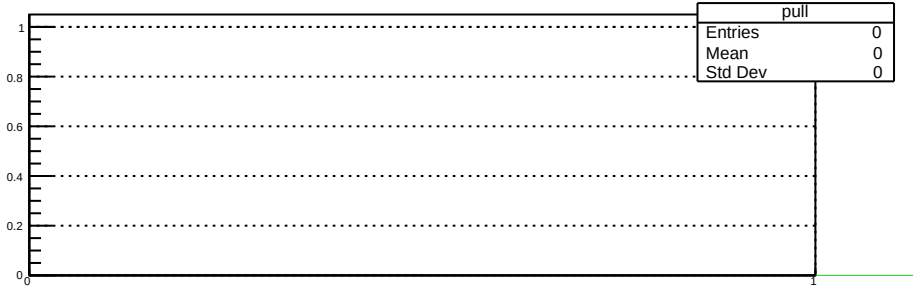

yield_sam8_rms vs run
χ² / ndf 1.645e+05 / 38
p0 0.006689 ± 8.586e−06
0.025
0.02
0.015
0.01
0.005
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

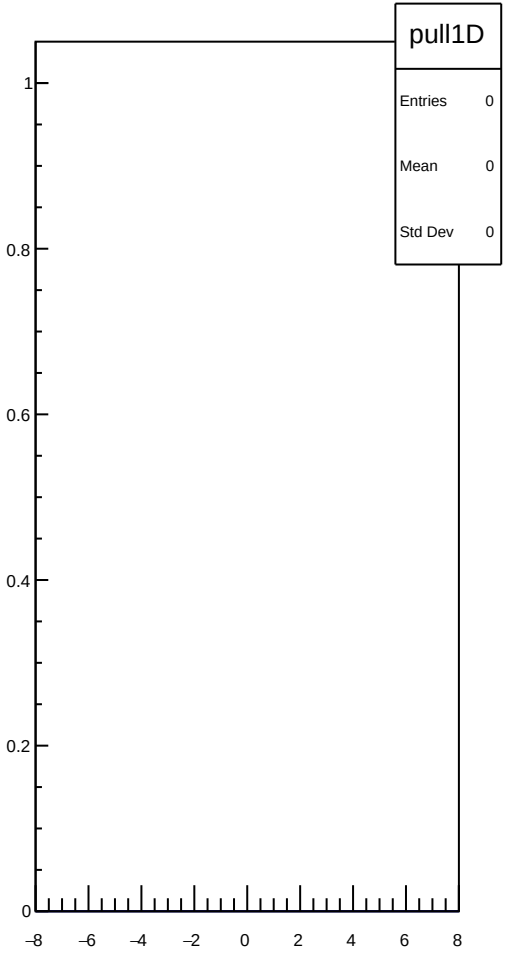

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

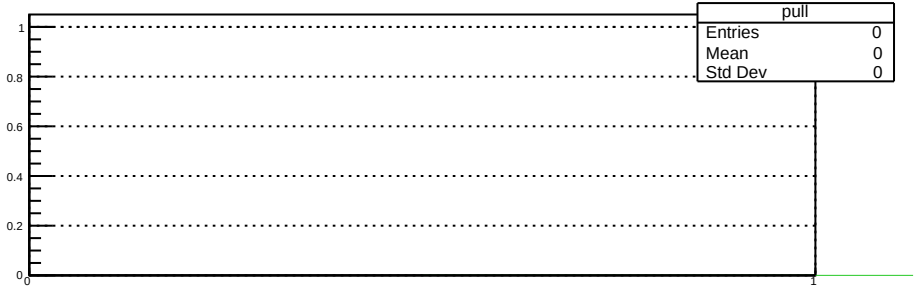

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

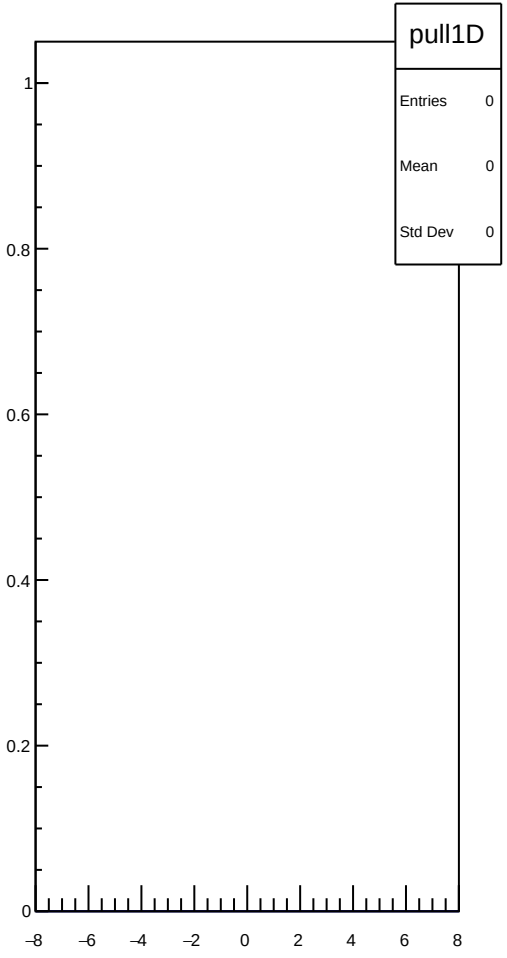

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

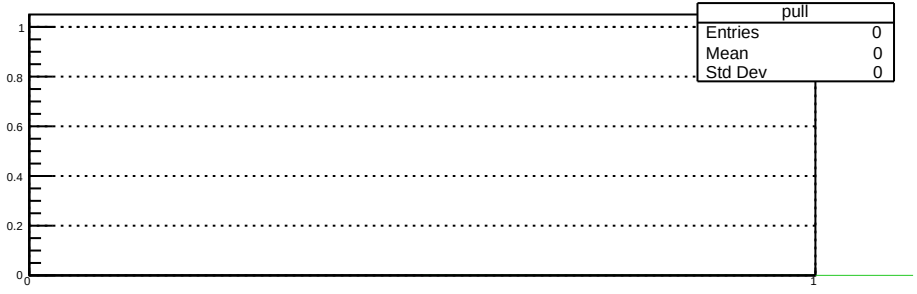

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

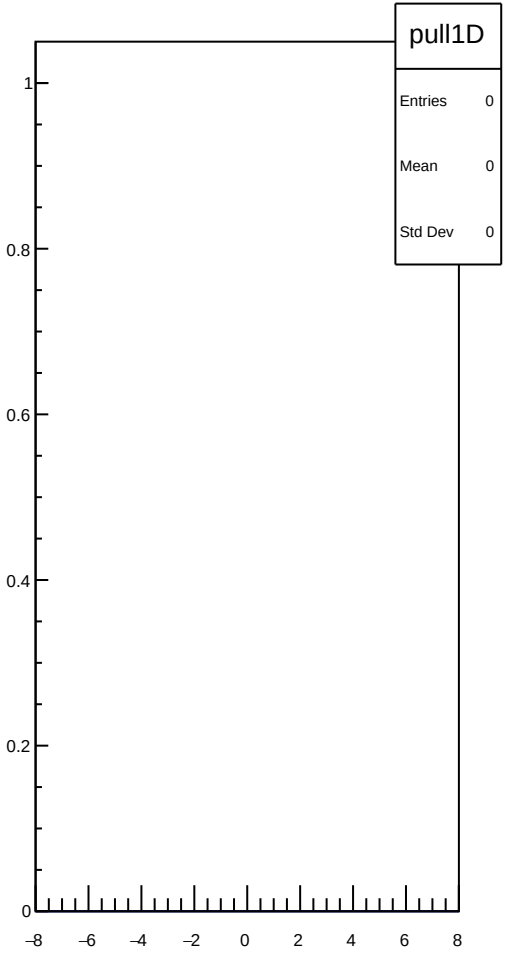

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

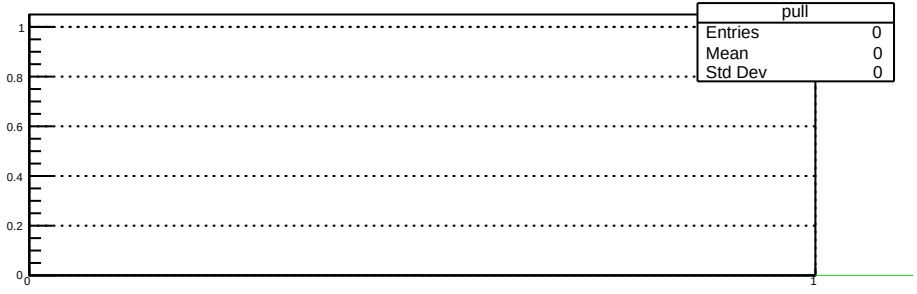

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

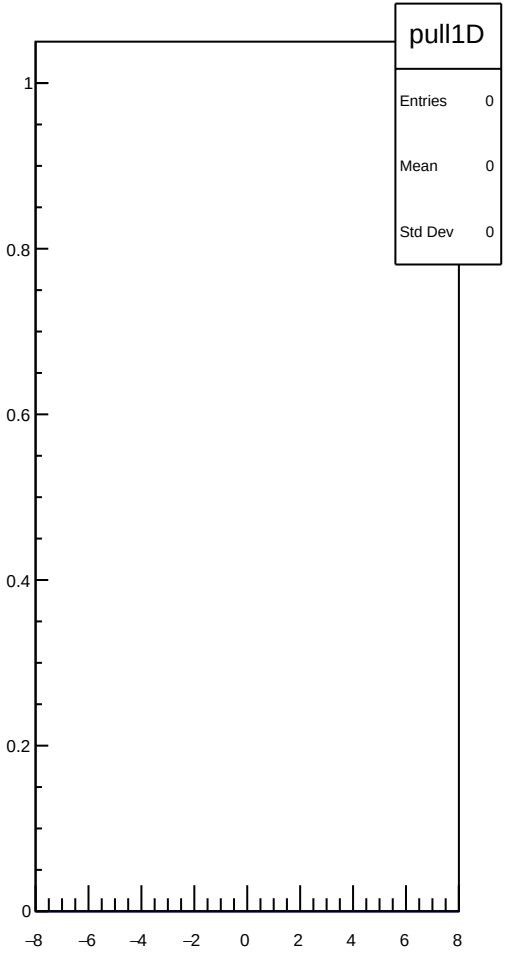

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

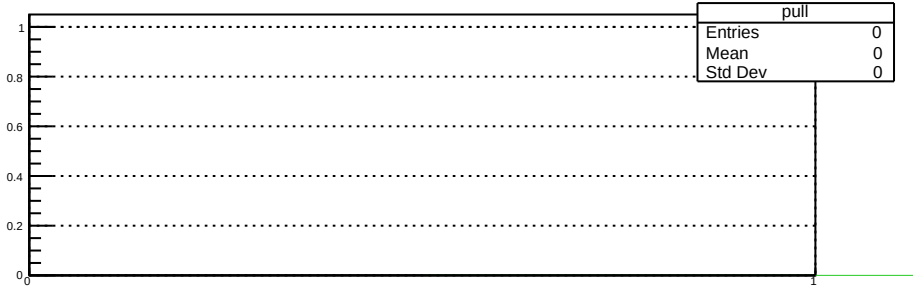

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

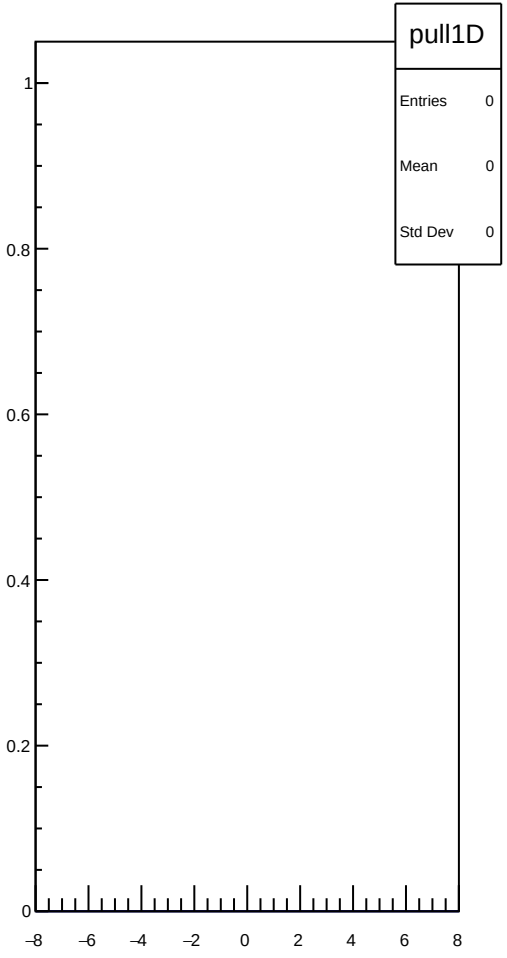

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

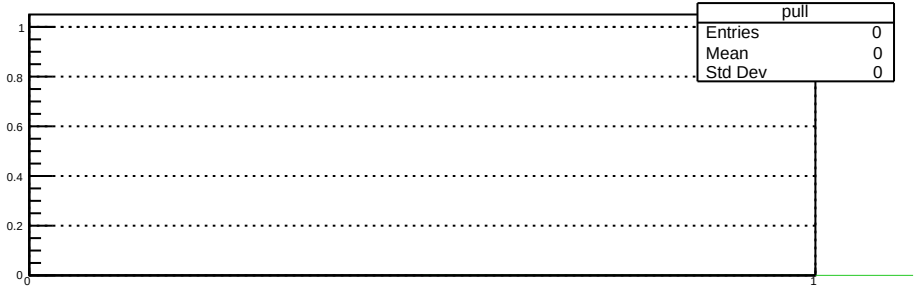

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

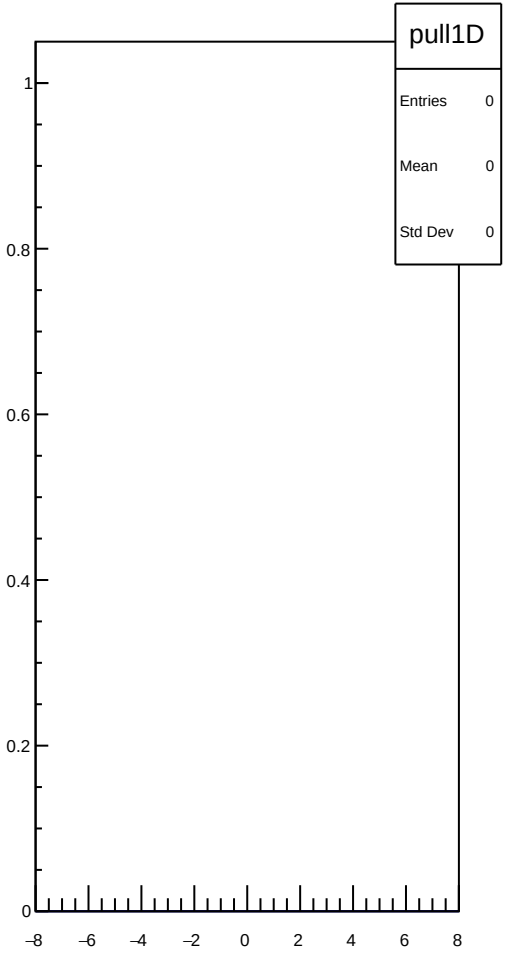

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

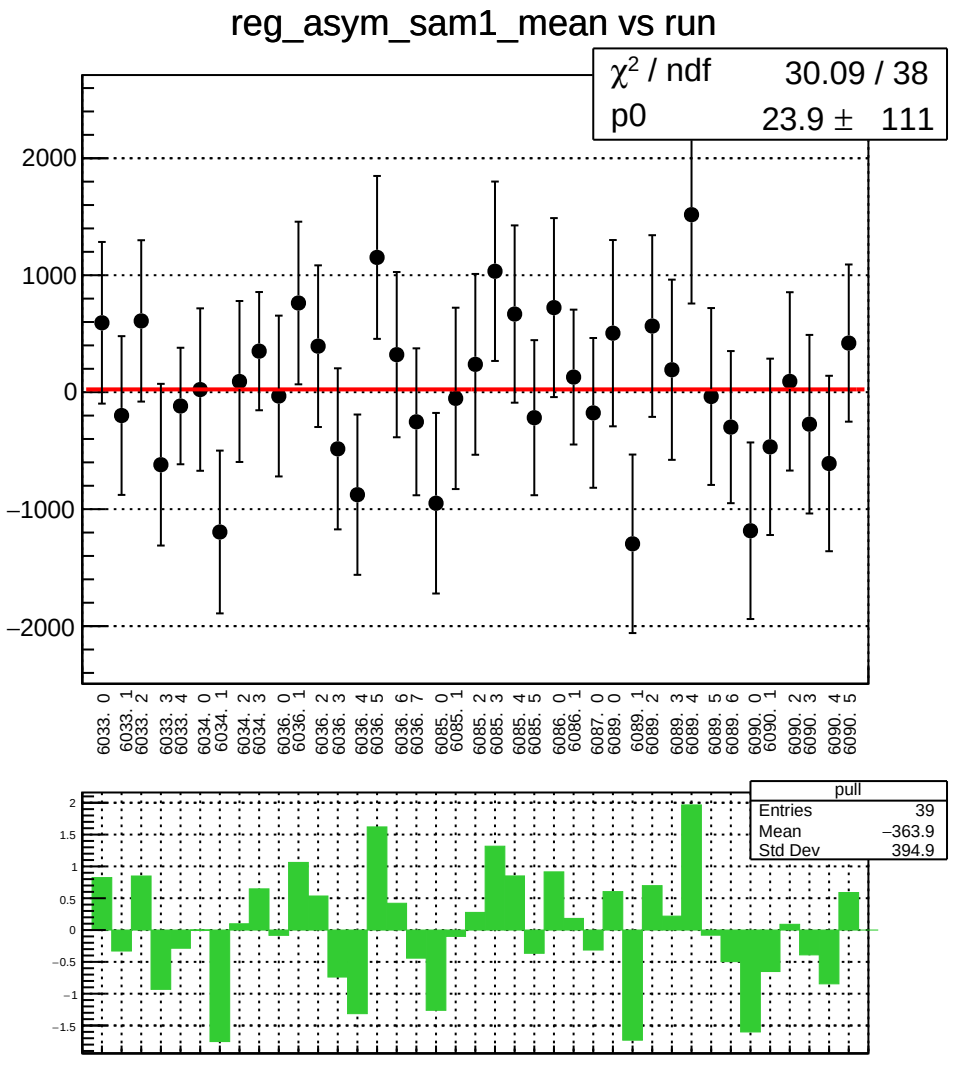

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

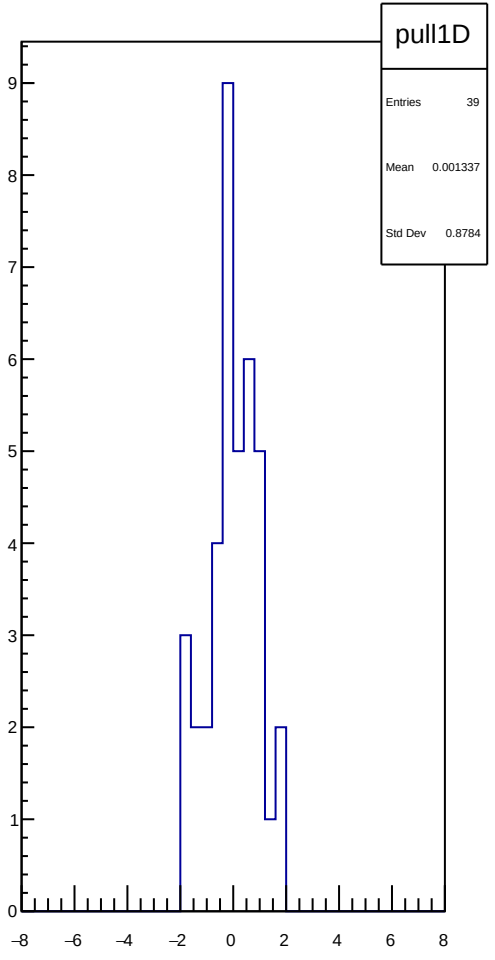

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

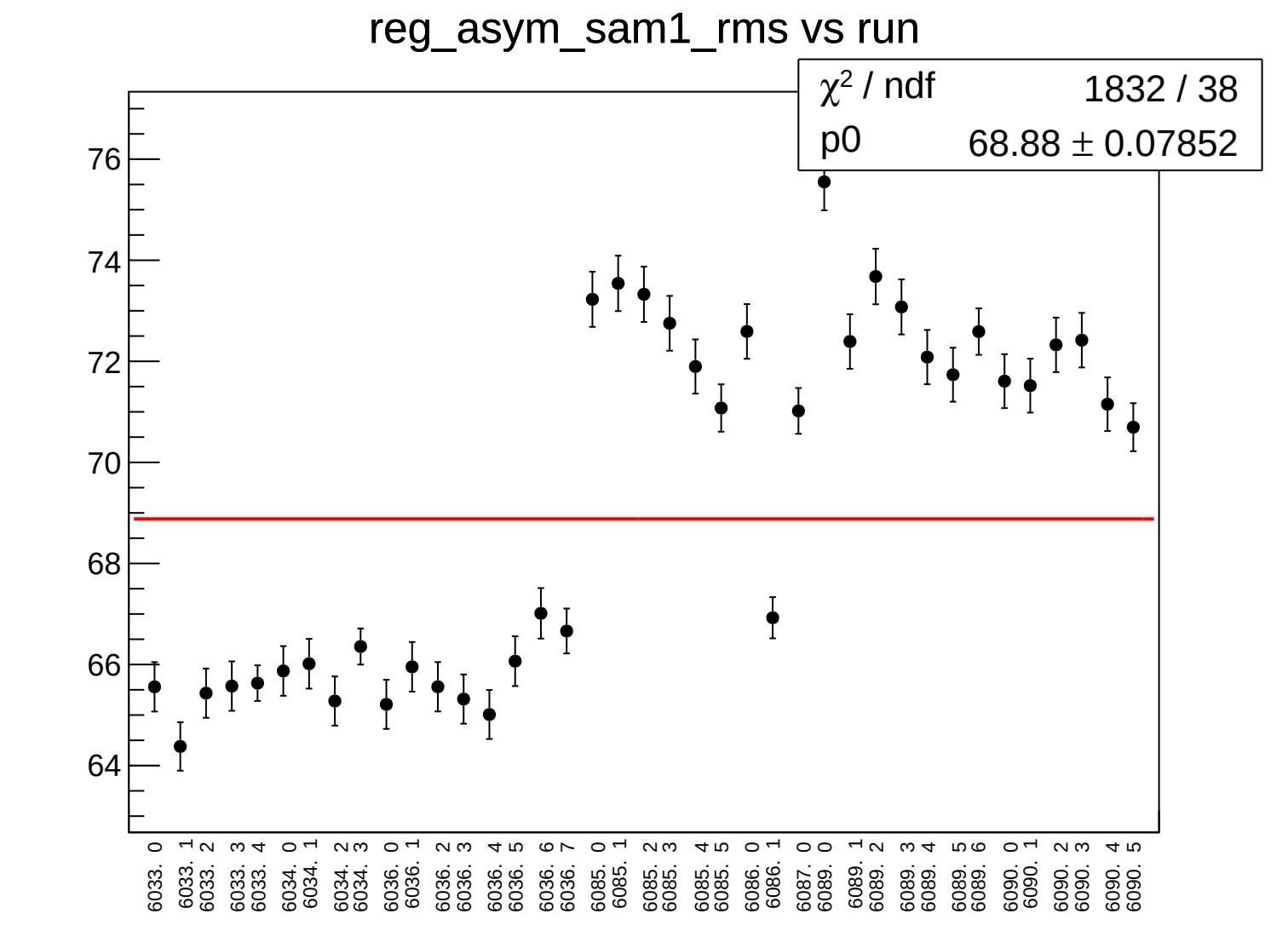

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

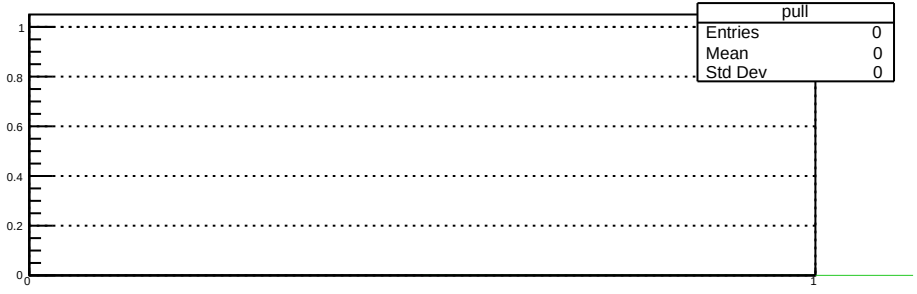

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

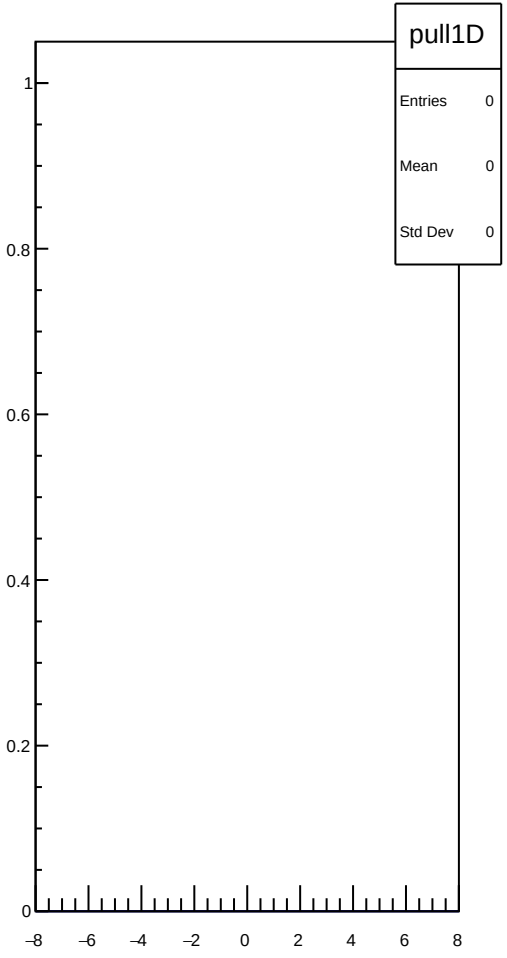

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

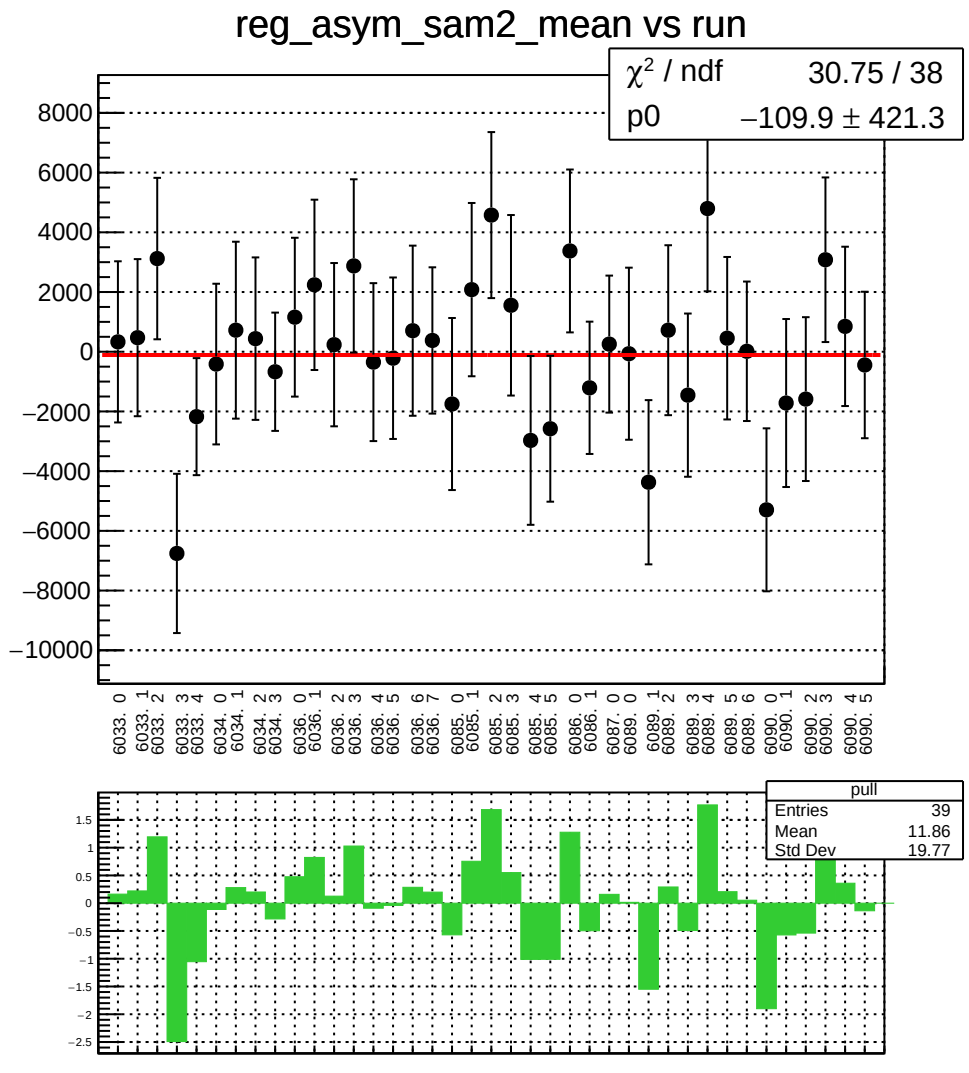

reg_asym_sam1_mean vs run
χ² / ndf 30.09 / 38
p0 23.9 ± 111
2000
1000
0
−1000
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −363.9
Std Dev 394.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

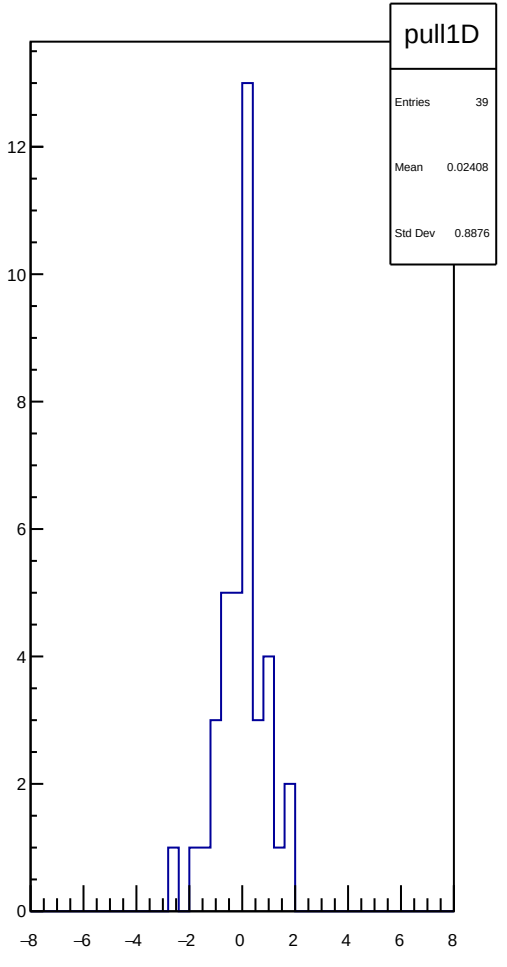

pull1D
Entries 39
Mean 0.001337
Std Dev 0.8784
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

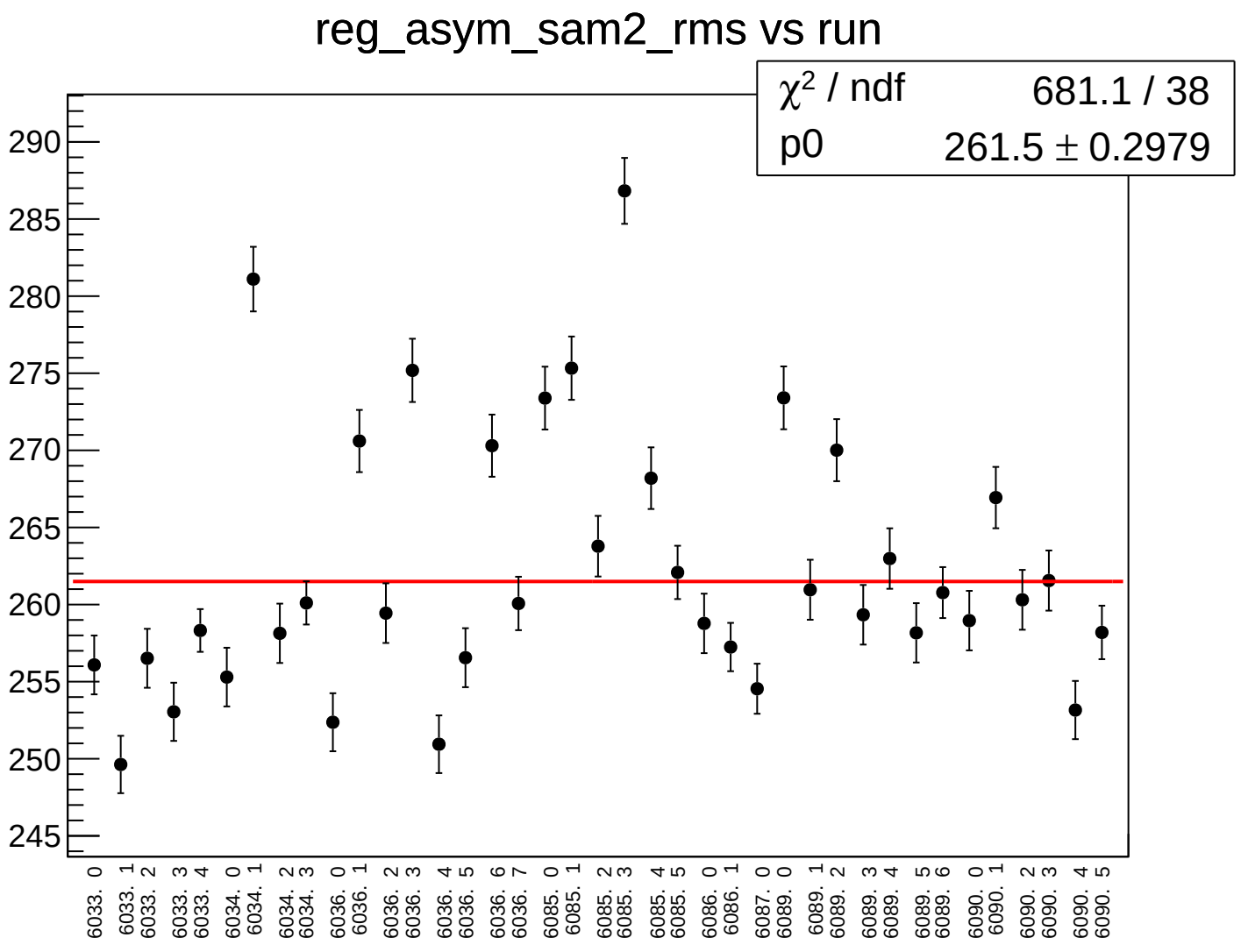

reg_asym_sam1_rms vs run
χ² / ndf 1832 / 38
p0 68.88 ± 0.07852
76
74
72
70
68
66
64
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

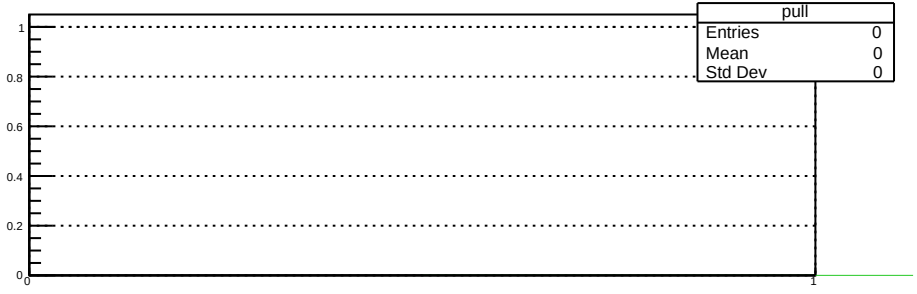

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

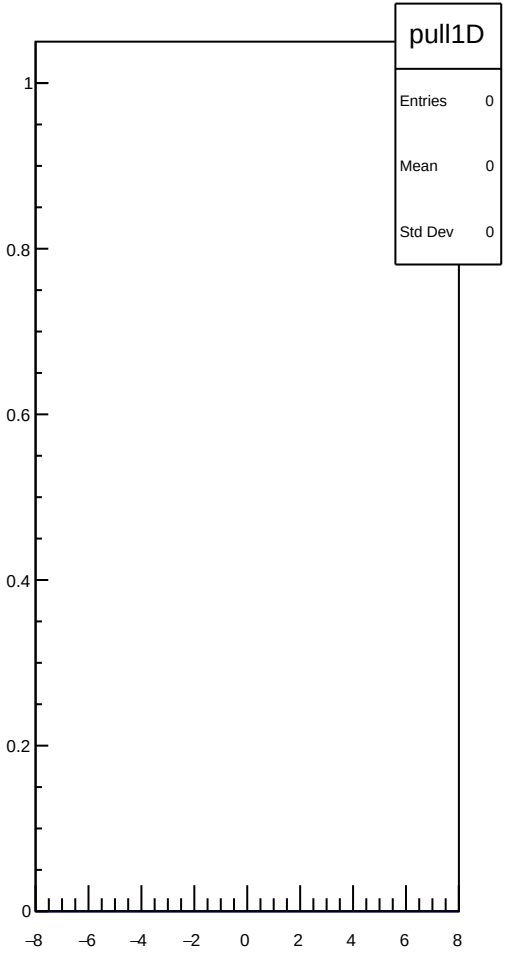

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

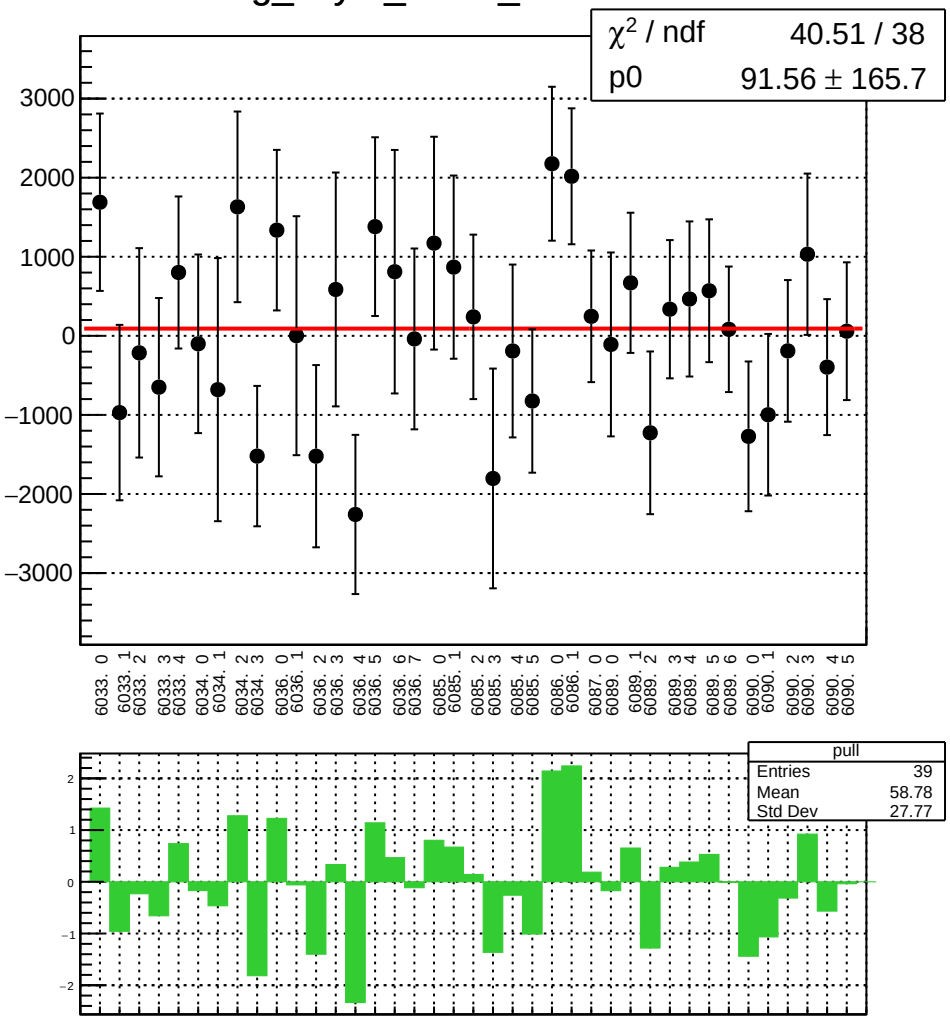

reg_asym_sam2_mean vs run
χ² / ndf 30.75 / 38
p0 −109.9 ± 421.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.86
Std Dev 19.77
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

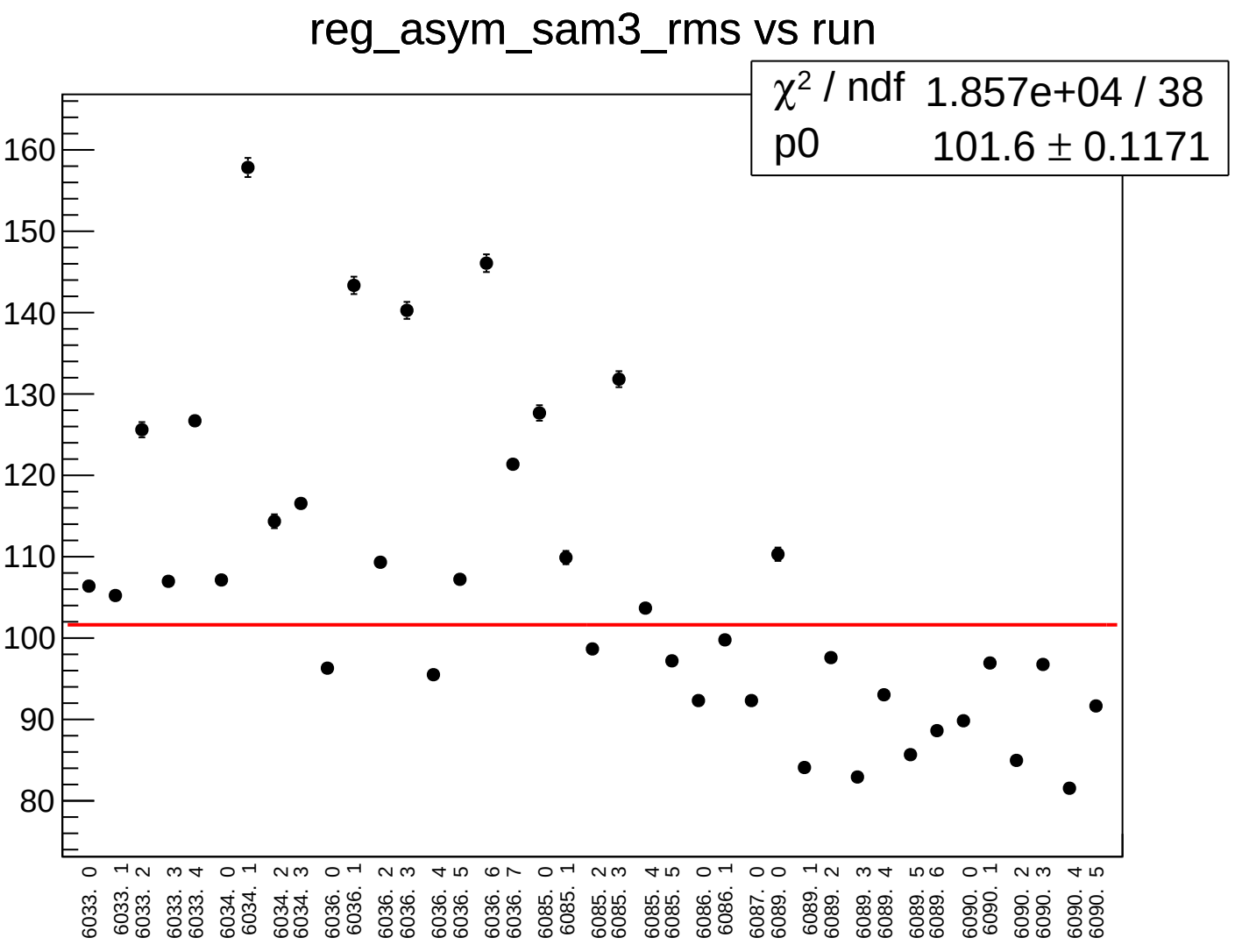

pull1D
Entries 39
Mean 0.02408
Std Dev 0.8876
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

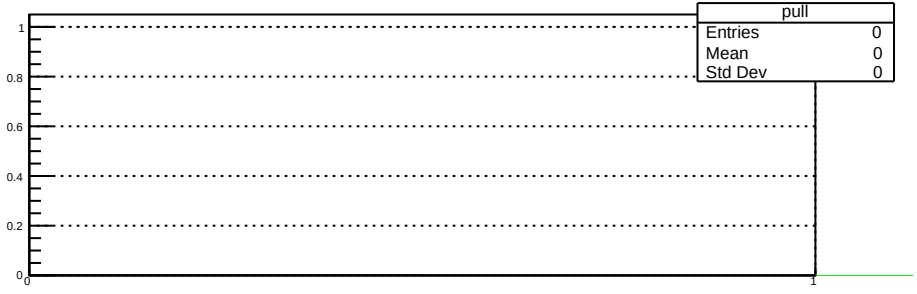

reg_asym_sam2_rms vs run
χ² / ndf 681.1 / 38
p0 261.5 ± 0.2979
290
285
280
275
270
265
260
255
250
245
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

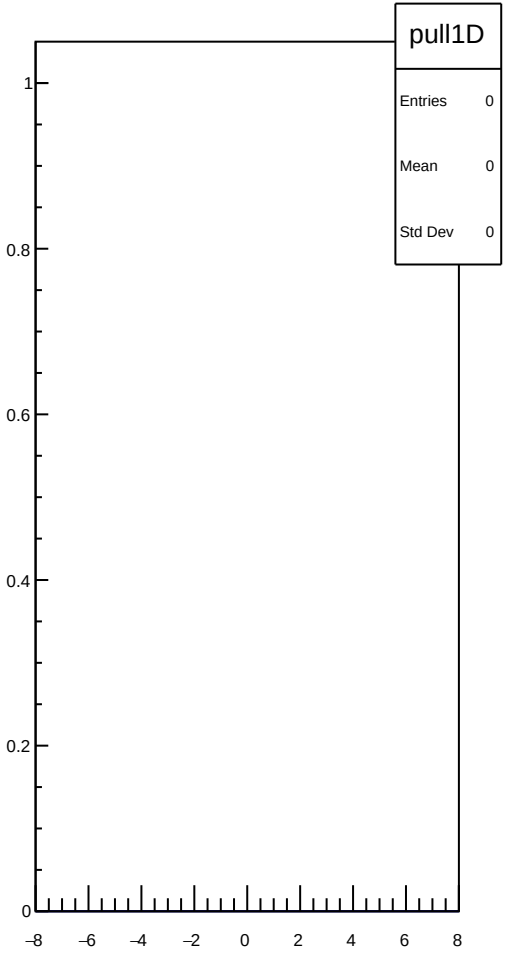

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

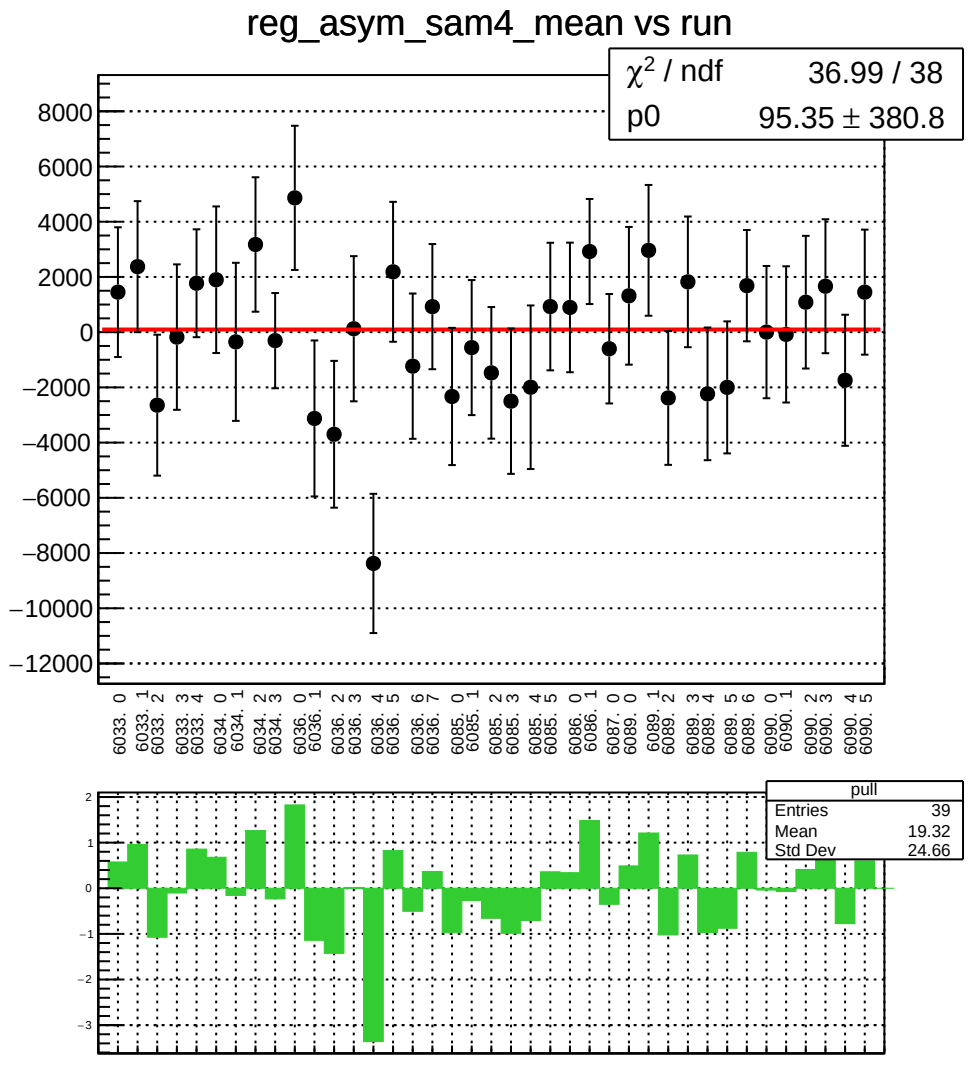

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

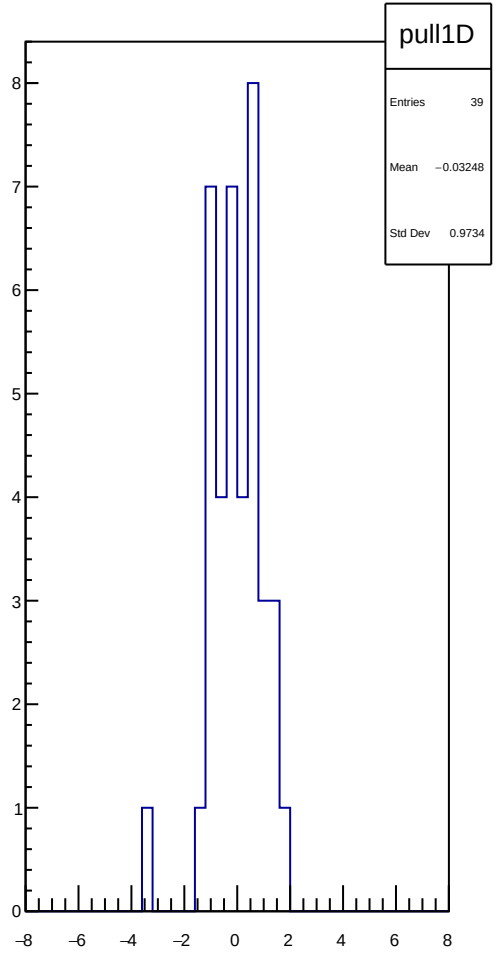

reg_asym_sam3_mean vs run
χ² / ndf 40.51 / 38
p0 91.56 ± 165.7
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 58.78
Std Dev 27.77
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.004241
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

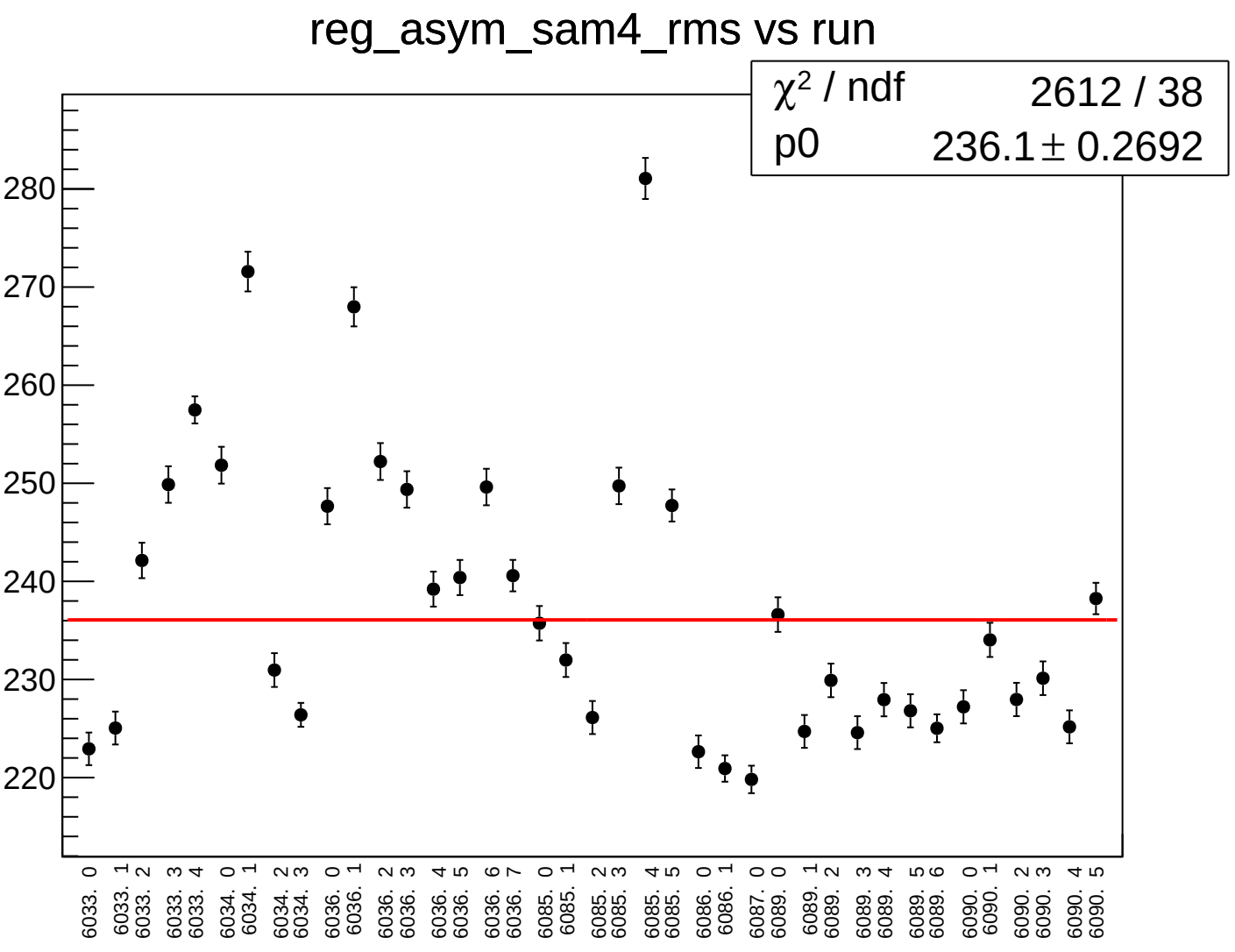

reg_asym_sam3_rms vs run
χ² / ndf 1.857e+04 / 38
p0 101.6 ± 0.1171
160
150
140
130
120
110
100
90
80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

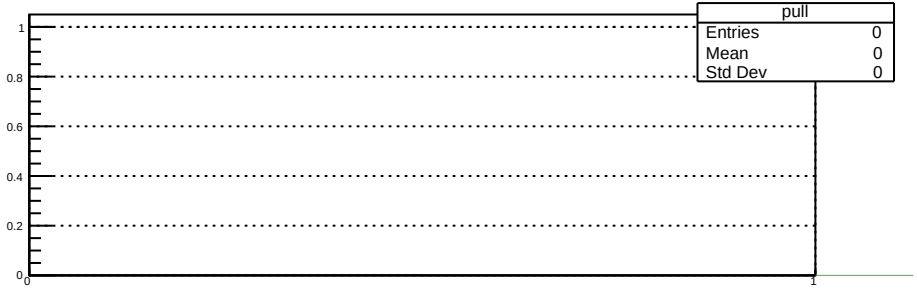

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

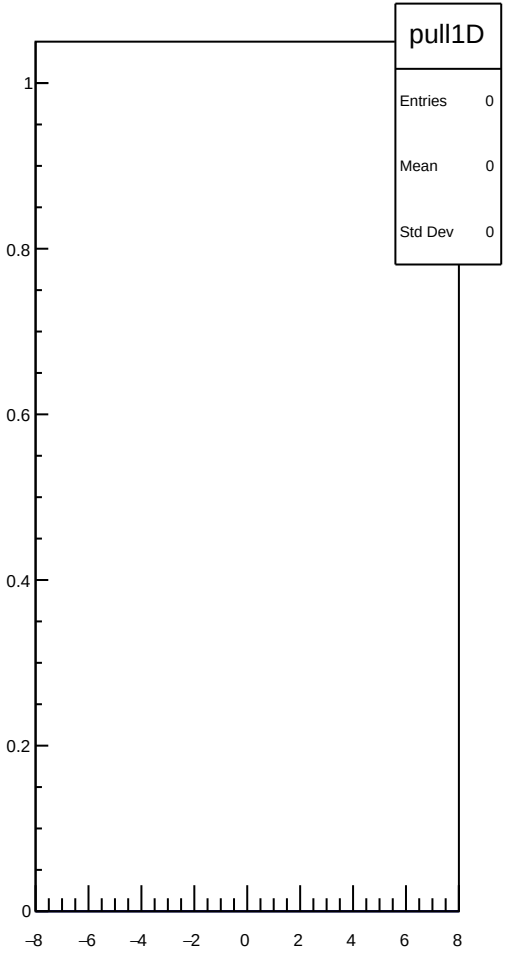

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

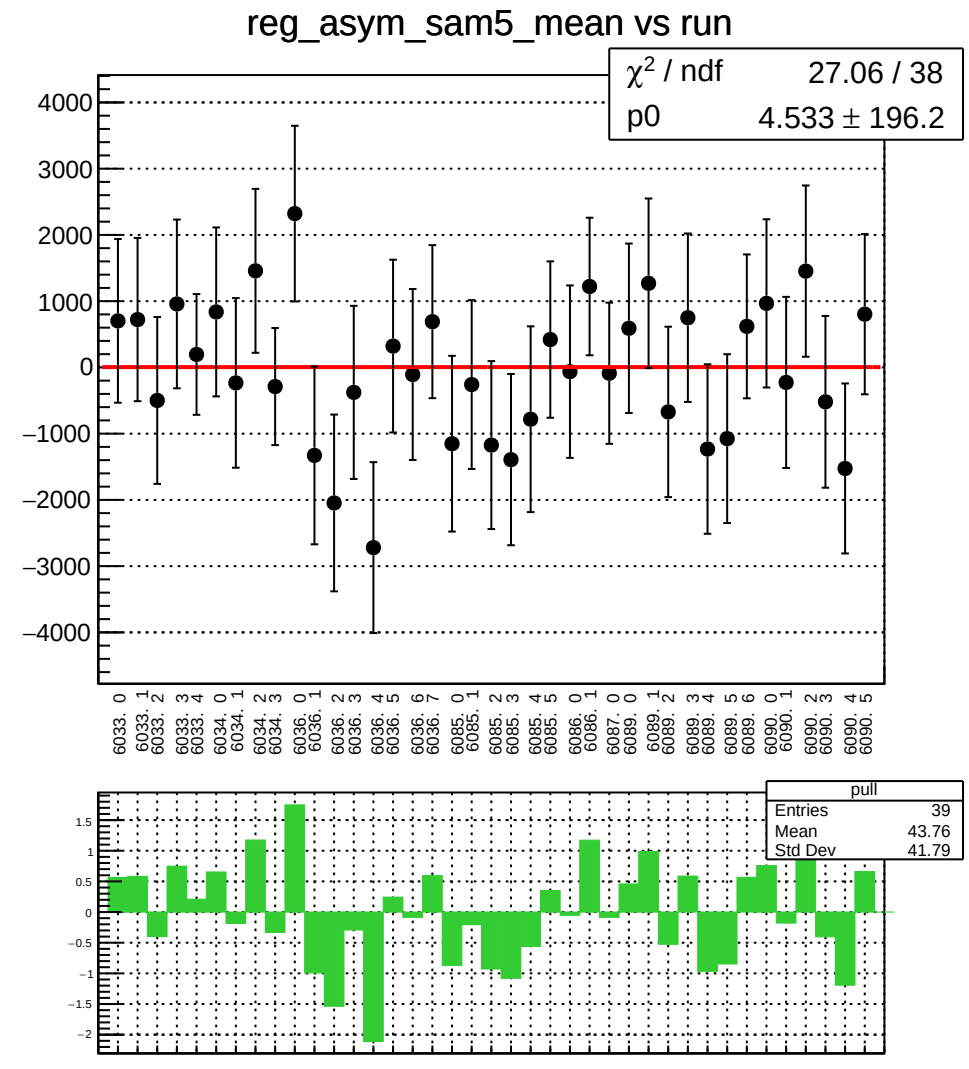

reg_asym_sam4_mean vs run
χ² / ndf 36.99 / 38
p0 95.35 ± 380.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.32
Std Dev 24.66
2
1
0
−1
−2
−3

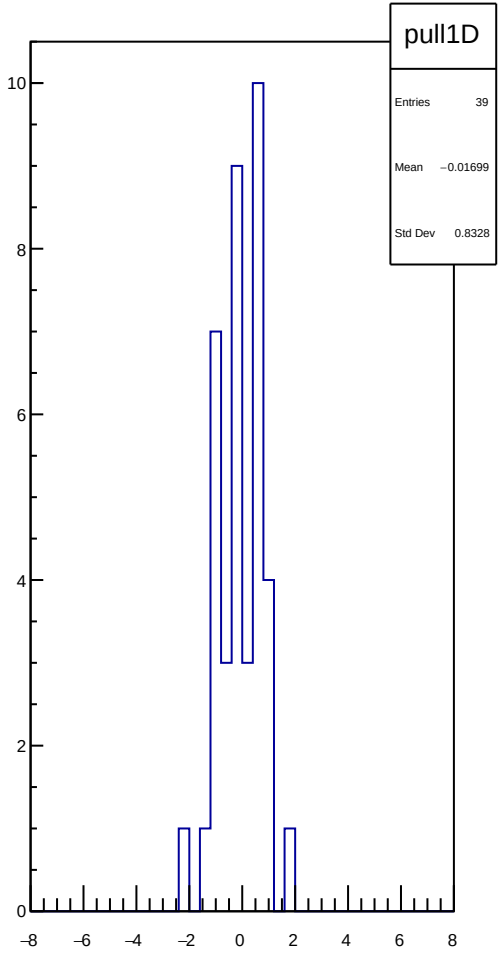

pull1D
Entries 39
Mean −0.03248
Std Dev 0.9734
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

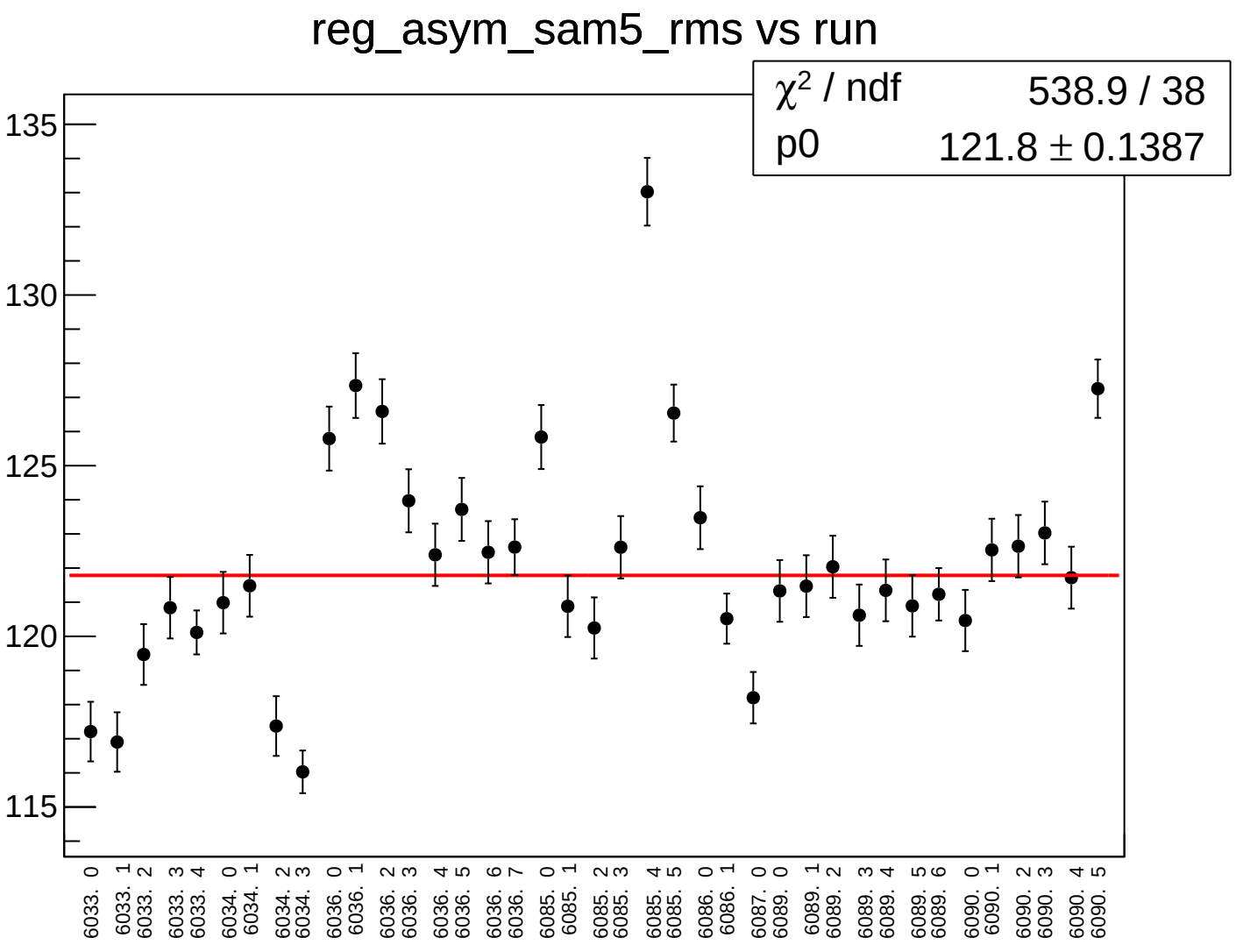

reg_asym_sam4_rms vs run
χ² / ndf 2612 / 38
p0 236.1 ± 0.2692
280
270
260
250
240
230
220
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

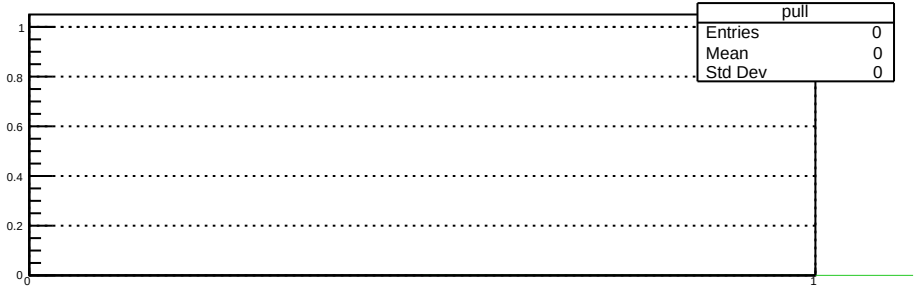

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

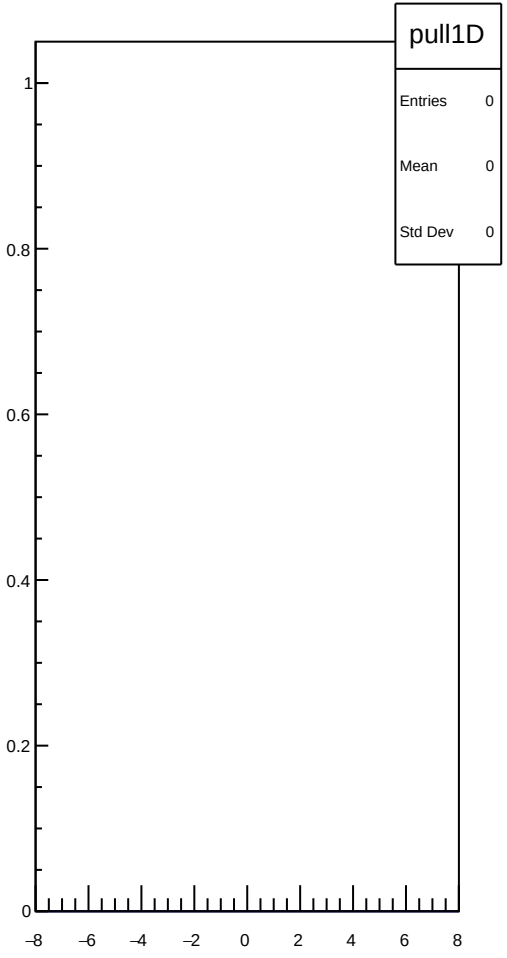

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

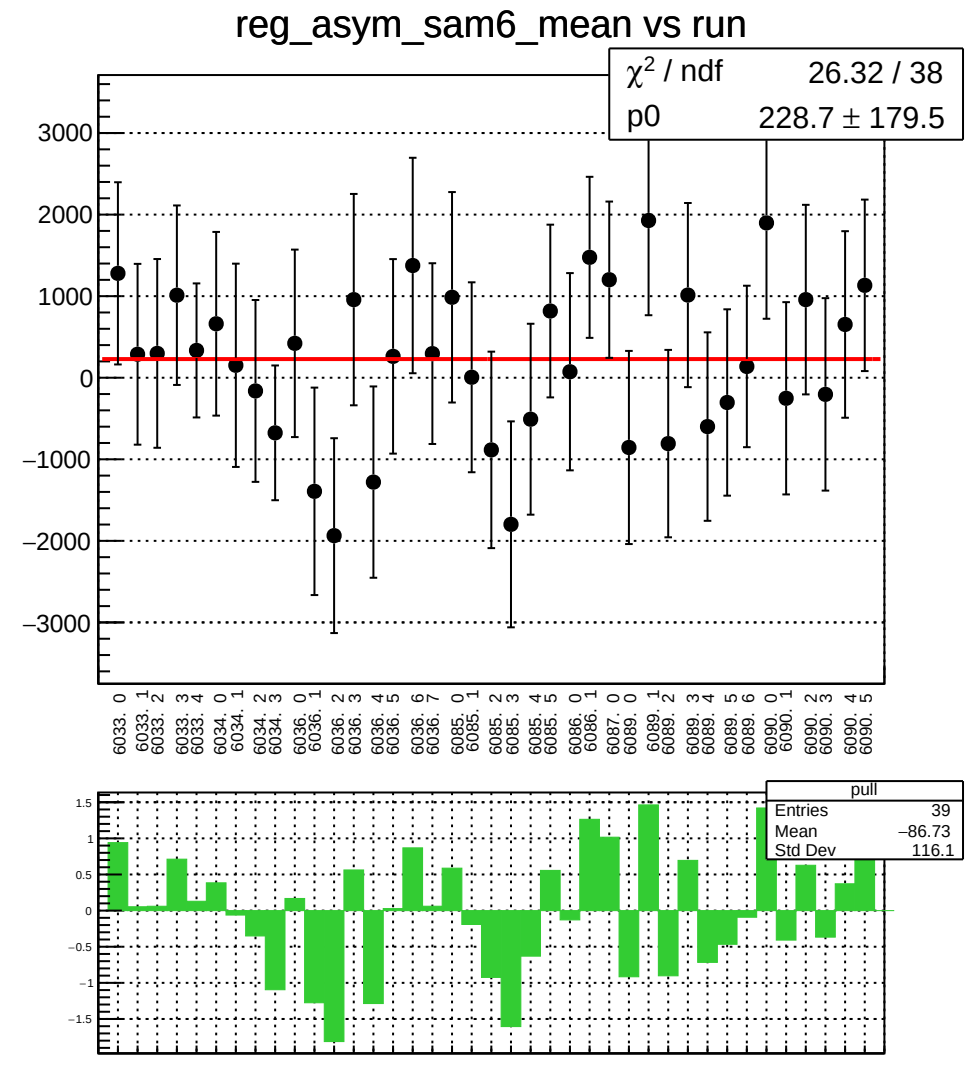

reg_asym_sam5_mean vs run
χ² / ndf 27.06 / 38
p0 4.533 ± 196.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 43.76
Std Dev 41.79
1.5
1
0.5
0
−0.5
−1
−1.5
−2

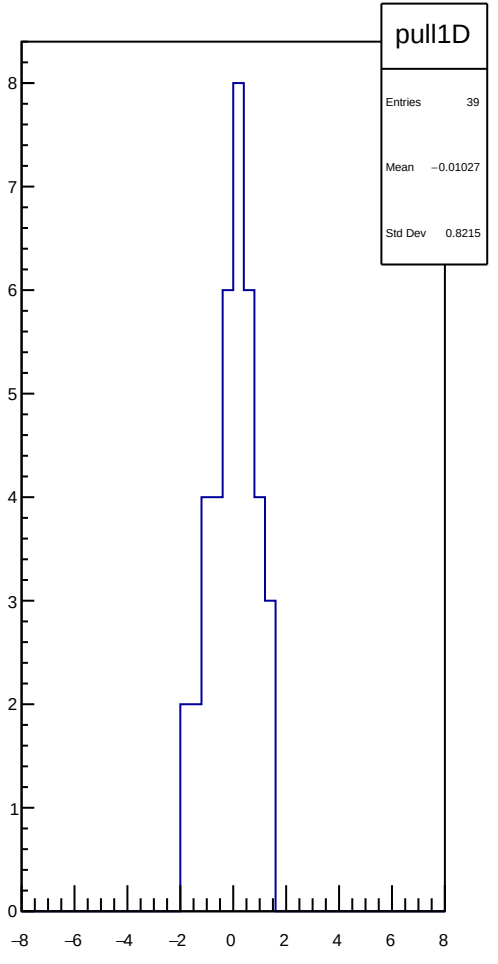

pull1D
Entries 39
Mean −0.01699
Std Dev 0.8328
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

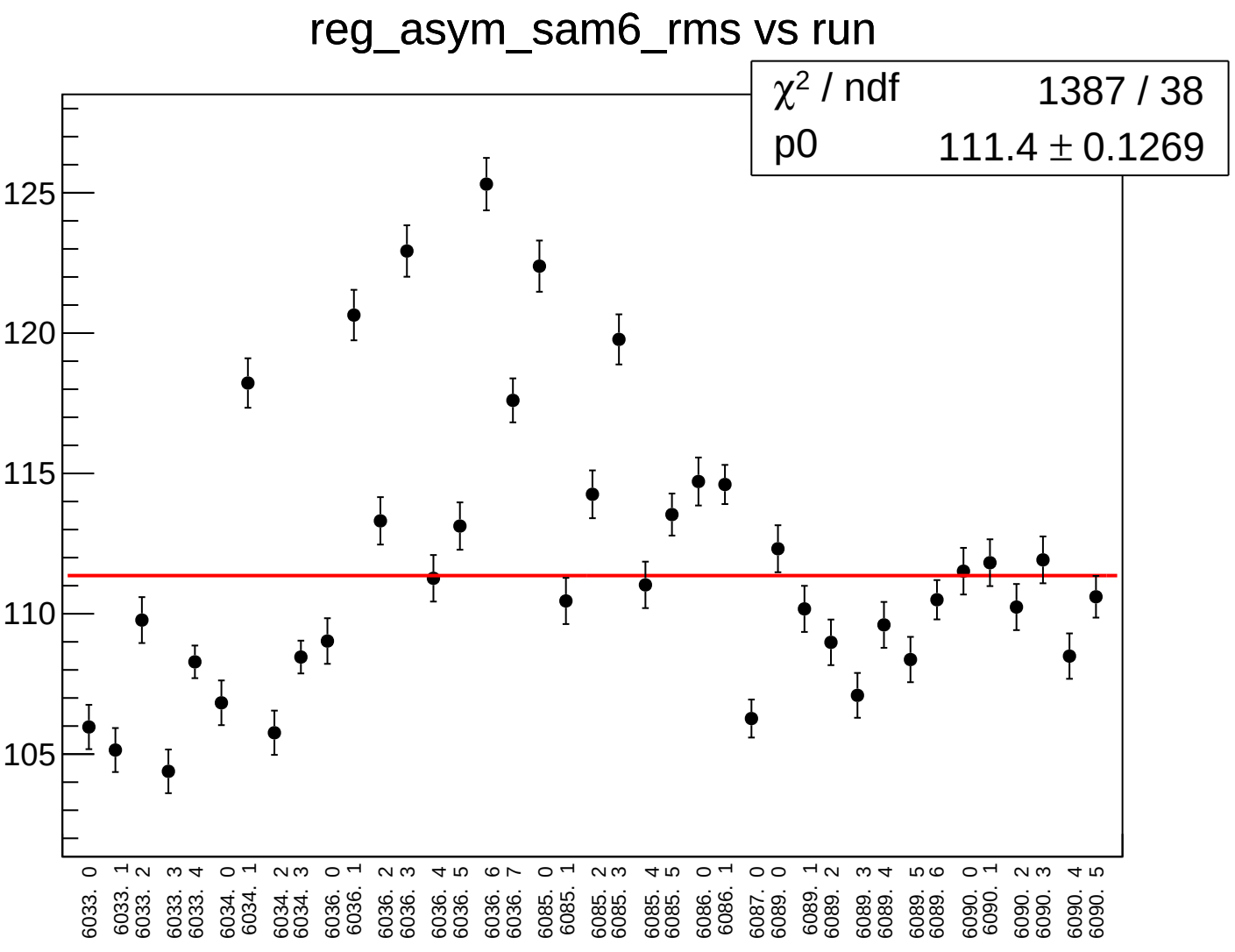

reg_asym_sam5_rms vs run
χ² / ndf 538.9 / 38
p0 121.8 ± 0.1387
135
130
125
120
115
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

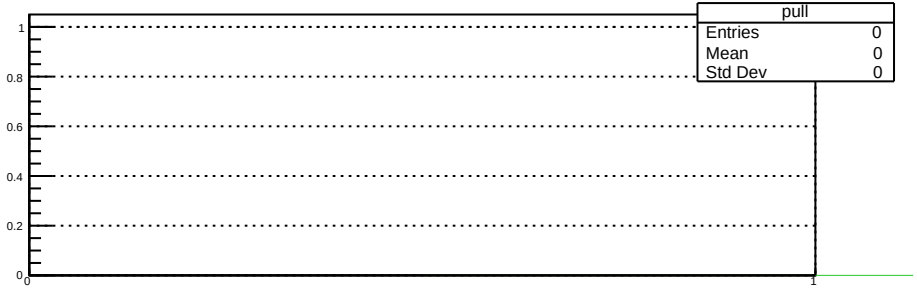

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

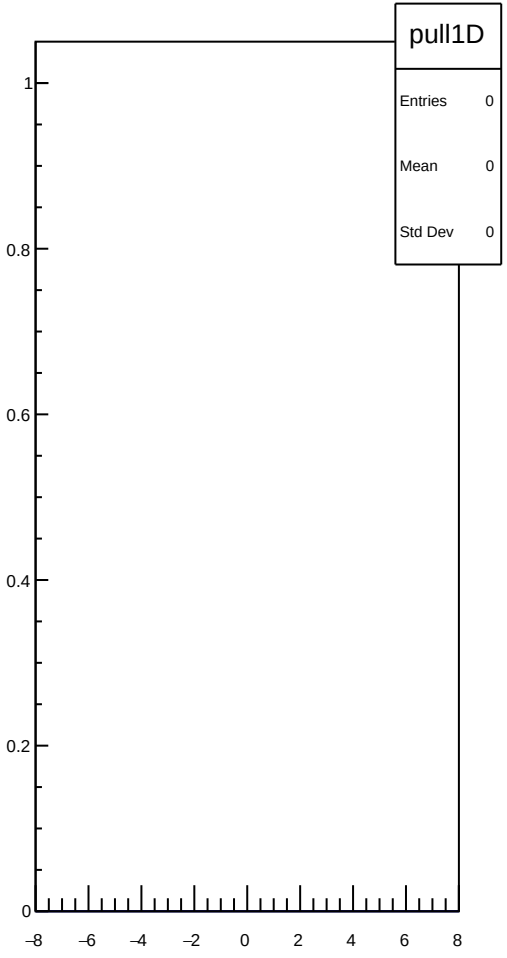

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

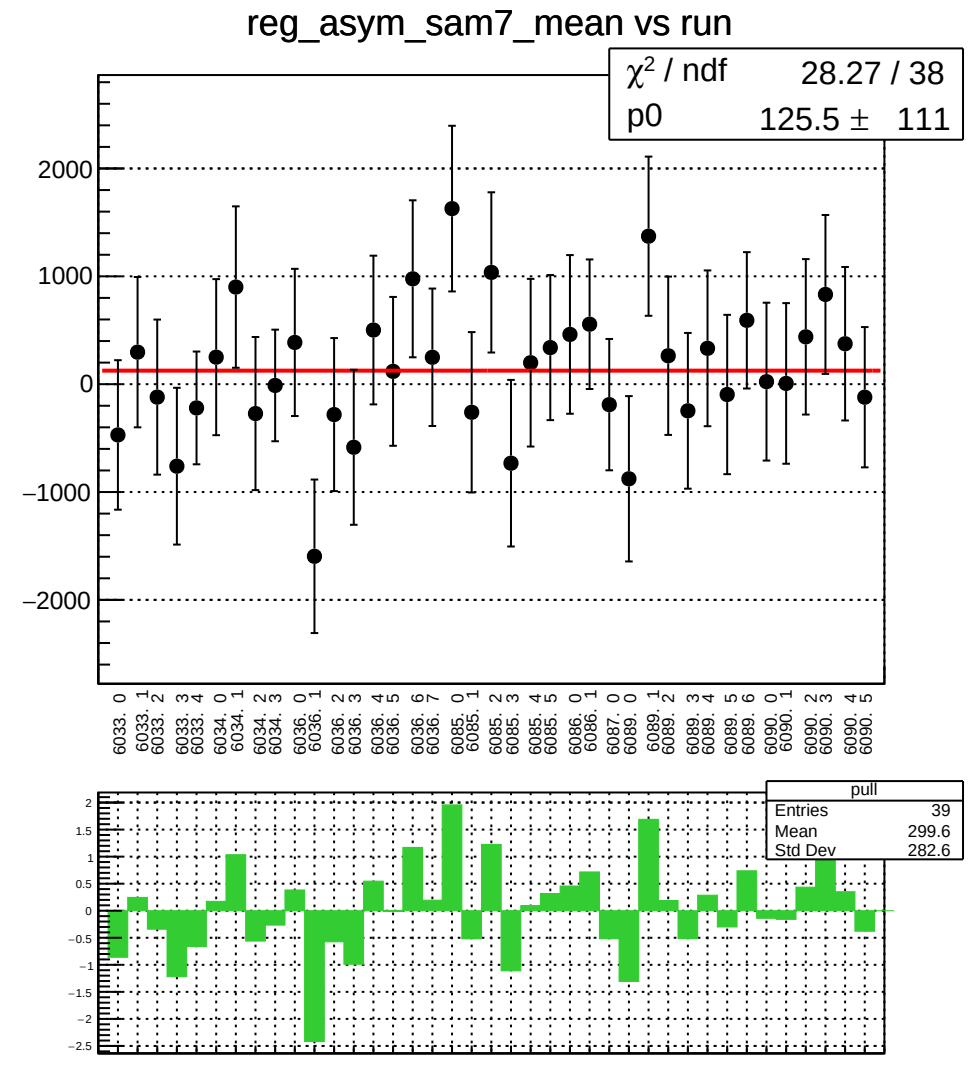

reg_asym_sam6_mean vs run
χ² / ndf 26.32 / 38
p0 228.7 ± 179.5
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −86.73
Std Dev 116.1
1.5
1
0.5
0
−0.5
−1
−1.5

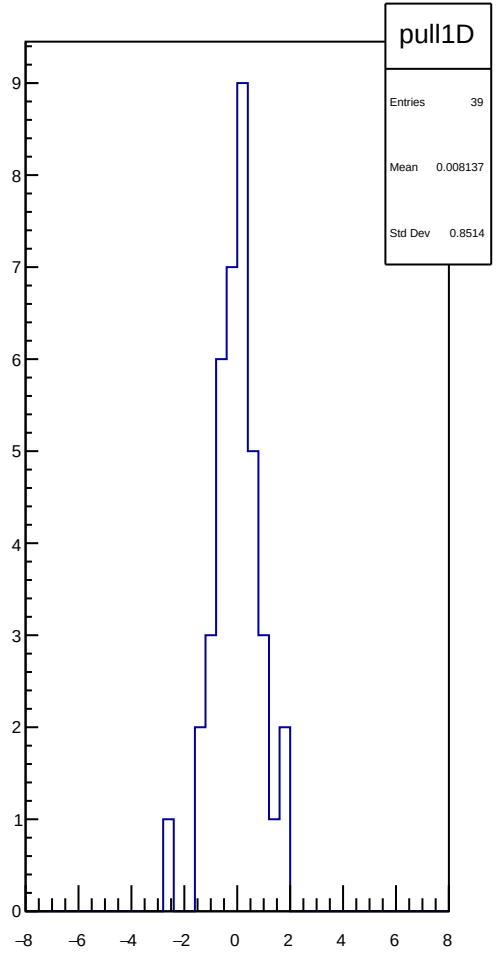

pull1D
Entries 39
Mean −0.01027
Std Dev 0.8215
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

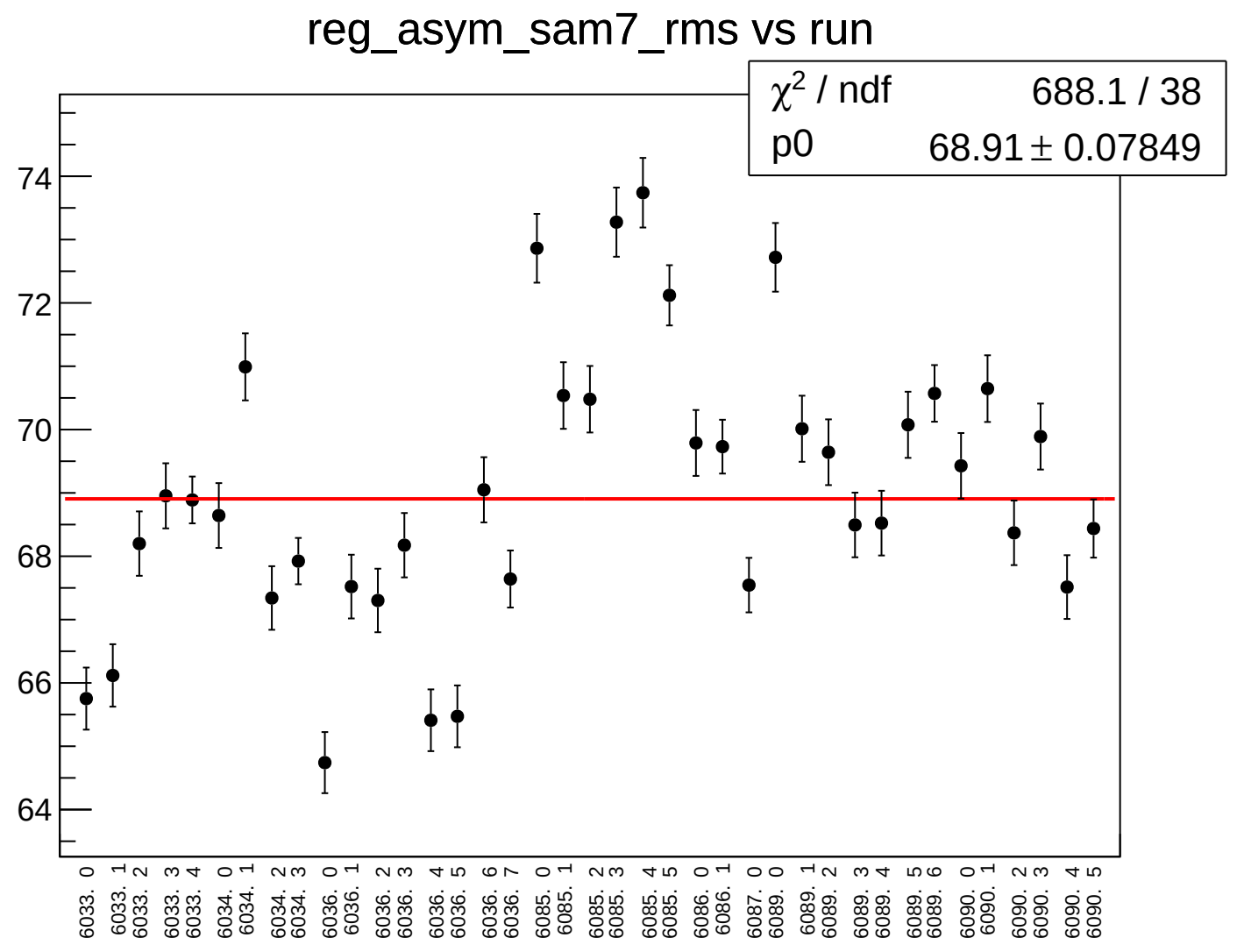

reg_asym_sam6_rms vs run
χ² / ndf 1387 / 38
p0 111.4 ± 0.1269
125
120
115
110
105
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

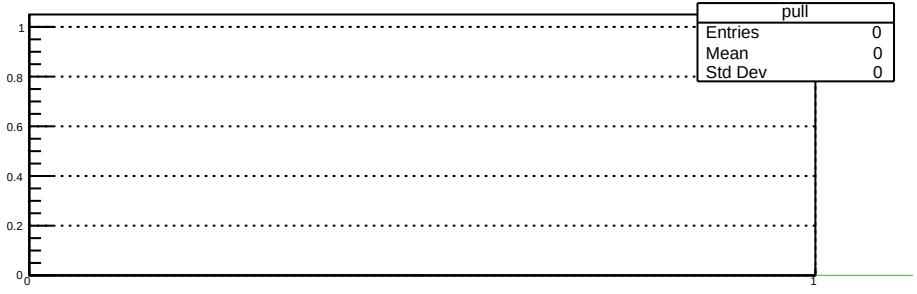

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

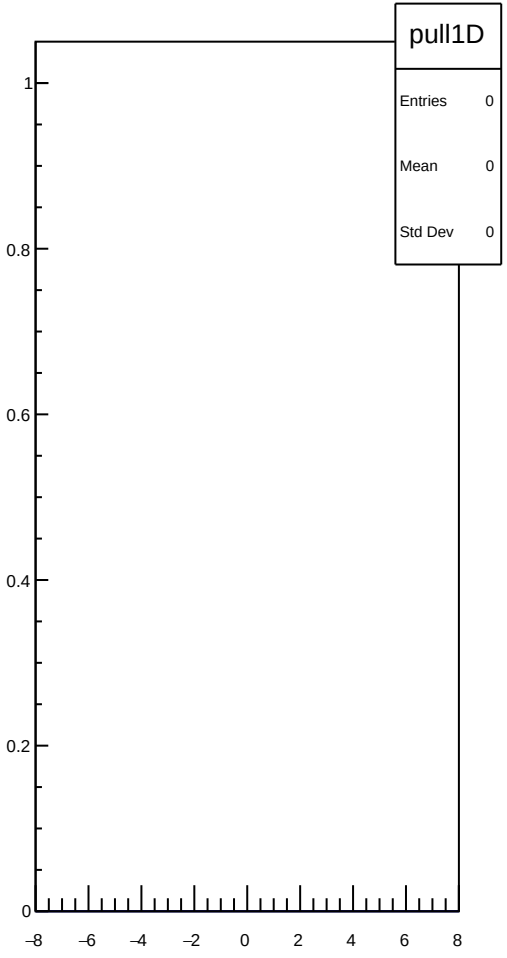

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

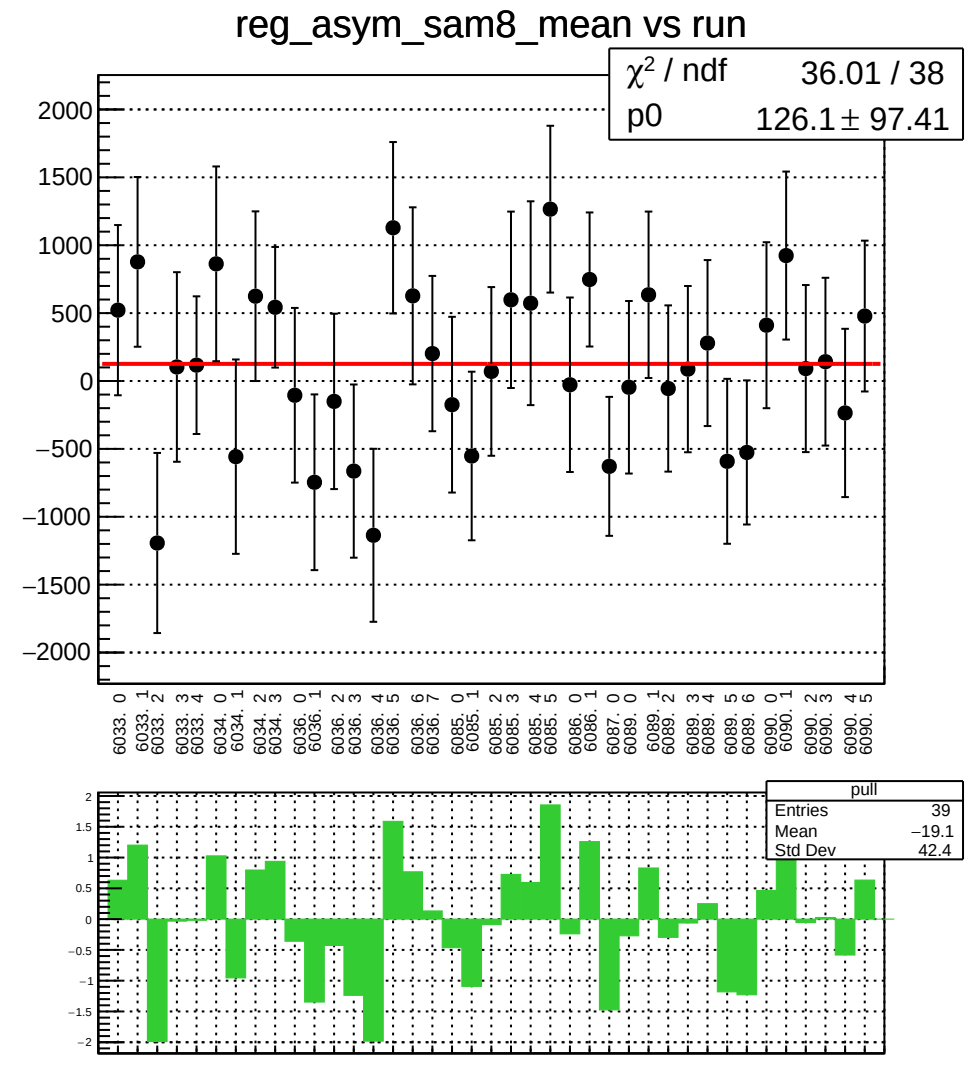

reg_asym_sam7_mean vs run
χ² / ndf 28.27 / 38
p0 125.5 ± 111
2000
1000
0
−1000
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 299.6
Std Dev 282.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

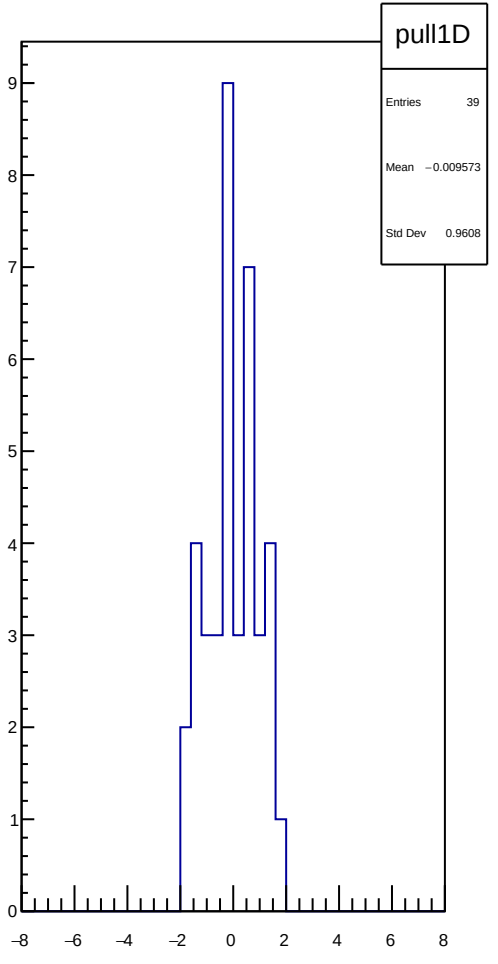

pull1D
Entries 39
Mean 0.008137
Std Dev 0.8514
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

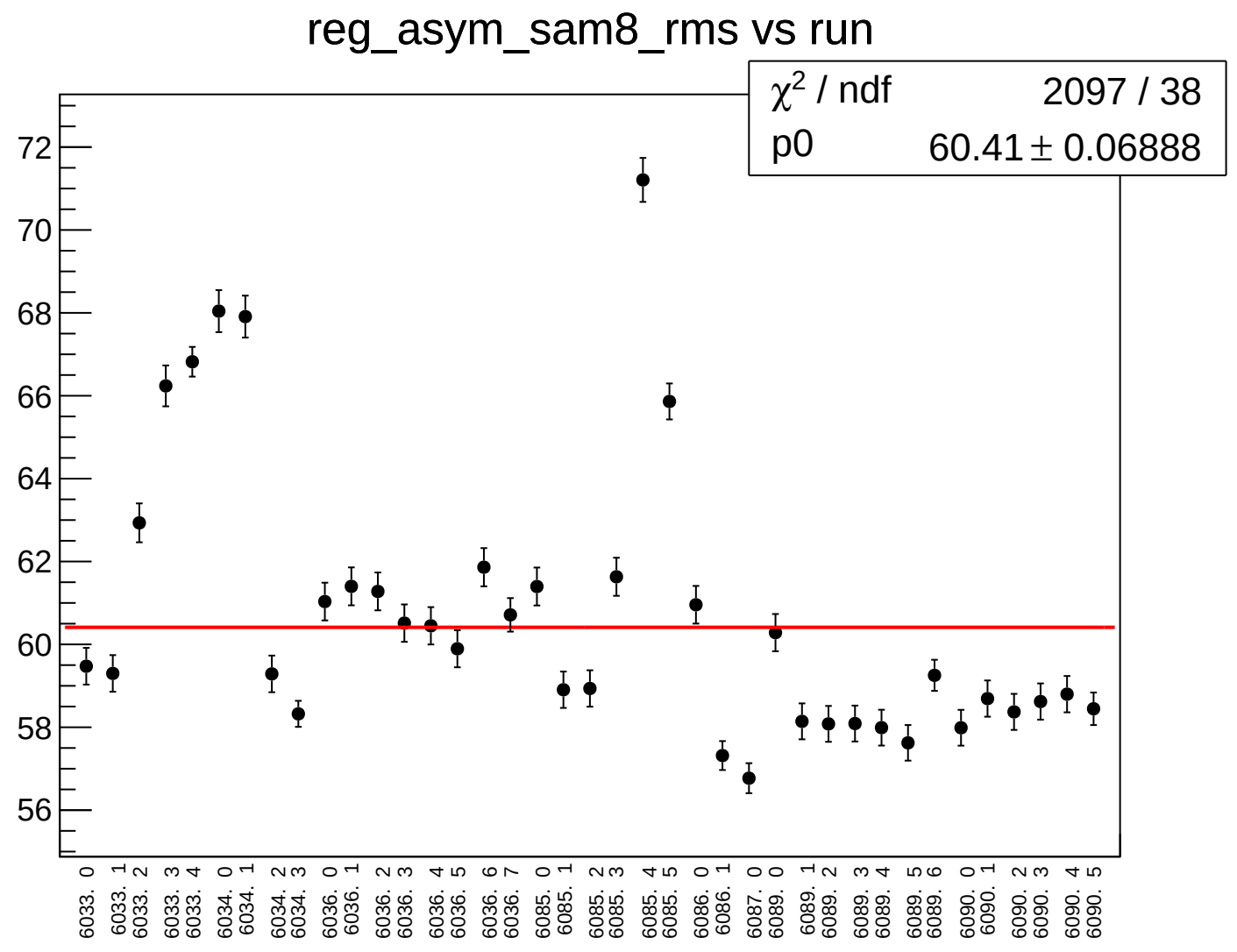

reg_asym_sam7_rms vs run
χ² / ndf 688.1 / 38
p0 68.91 ± 0.07849
74
72
70
68
66
64
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

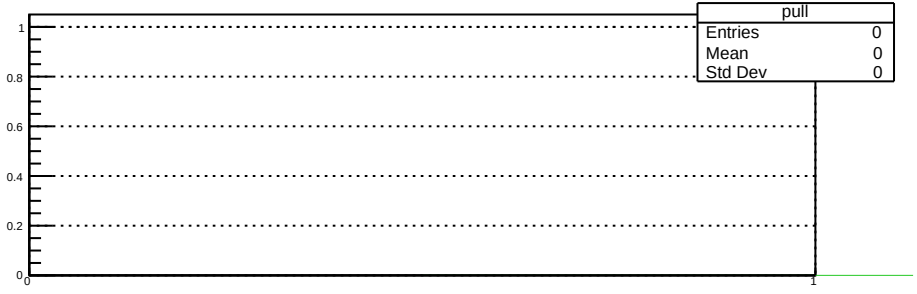

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

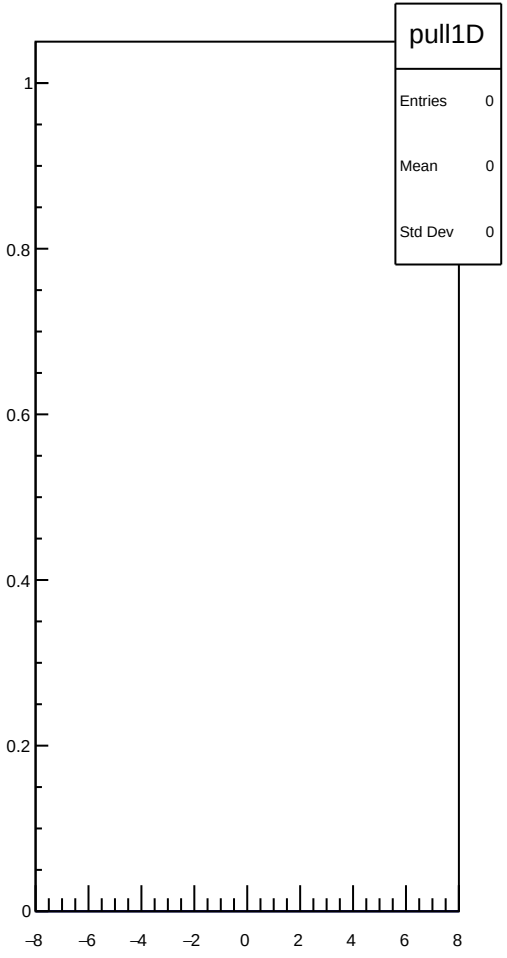

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

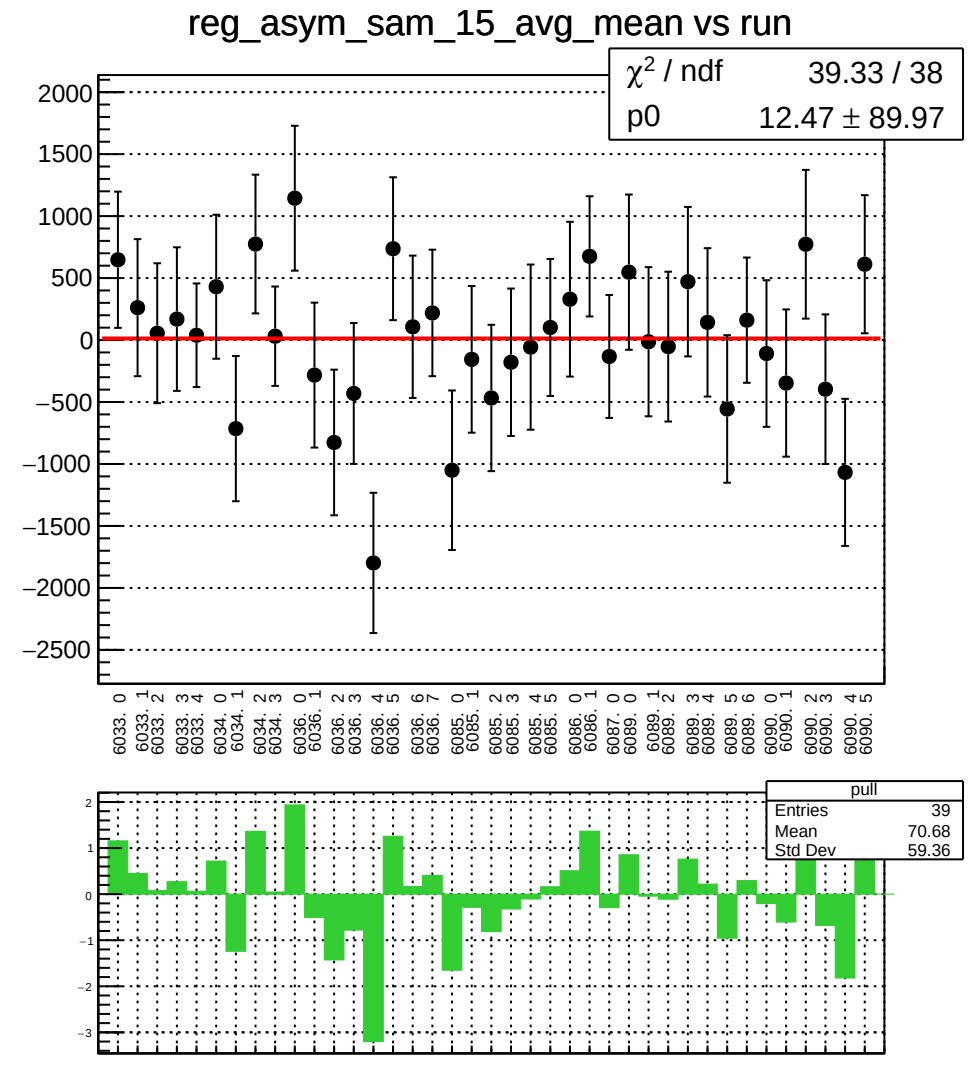

reg_asym_sam8_mean vs run
χ² / ndf 36.01 / 38
p0 126.1 ± 97.41
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −19.1
Std Dev 42.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

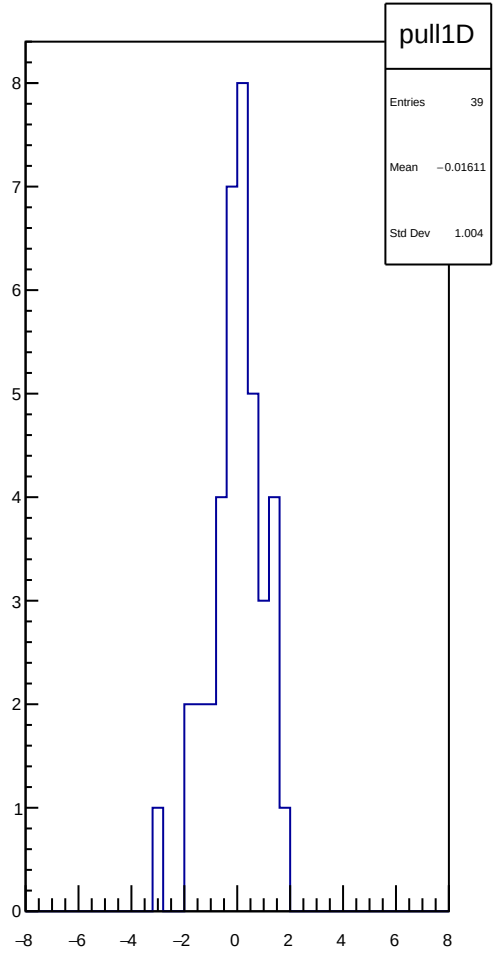

pull1D
Entries 39
Mean −0.009573
Std Dev 0.9608
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

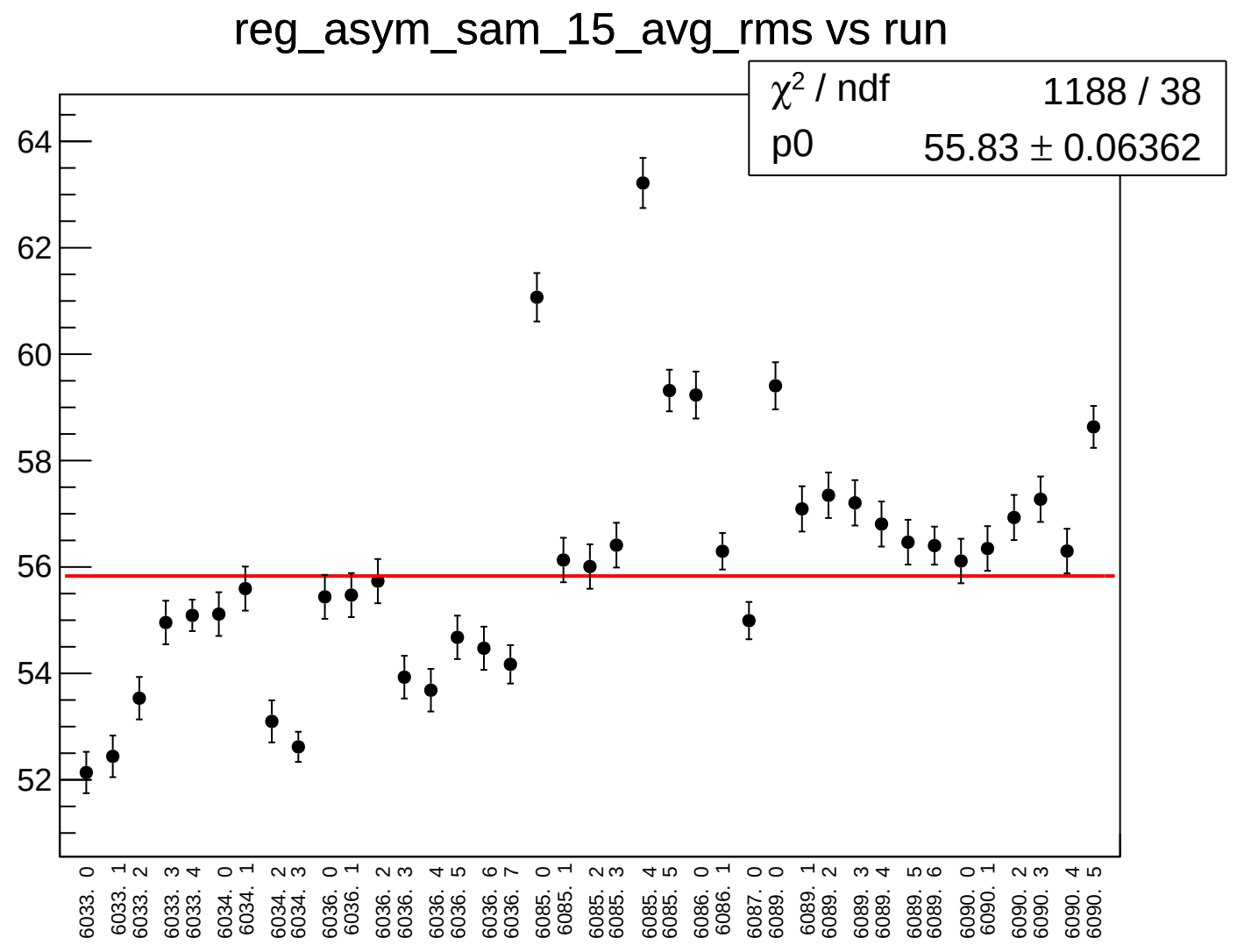

reg_asym_sam8_rms vs run
χ^2 / ndf 2097 / 38
p0 60.41 ± 0.06888
72
70
68
66
64
62
60
58
56
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

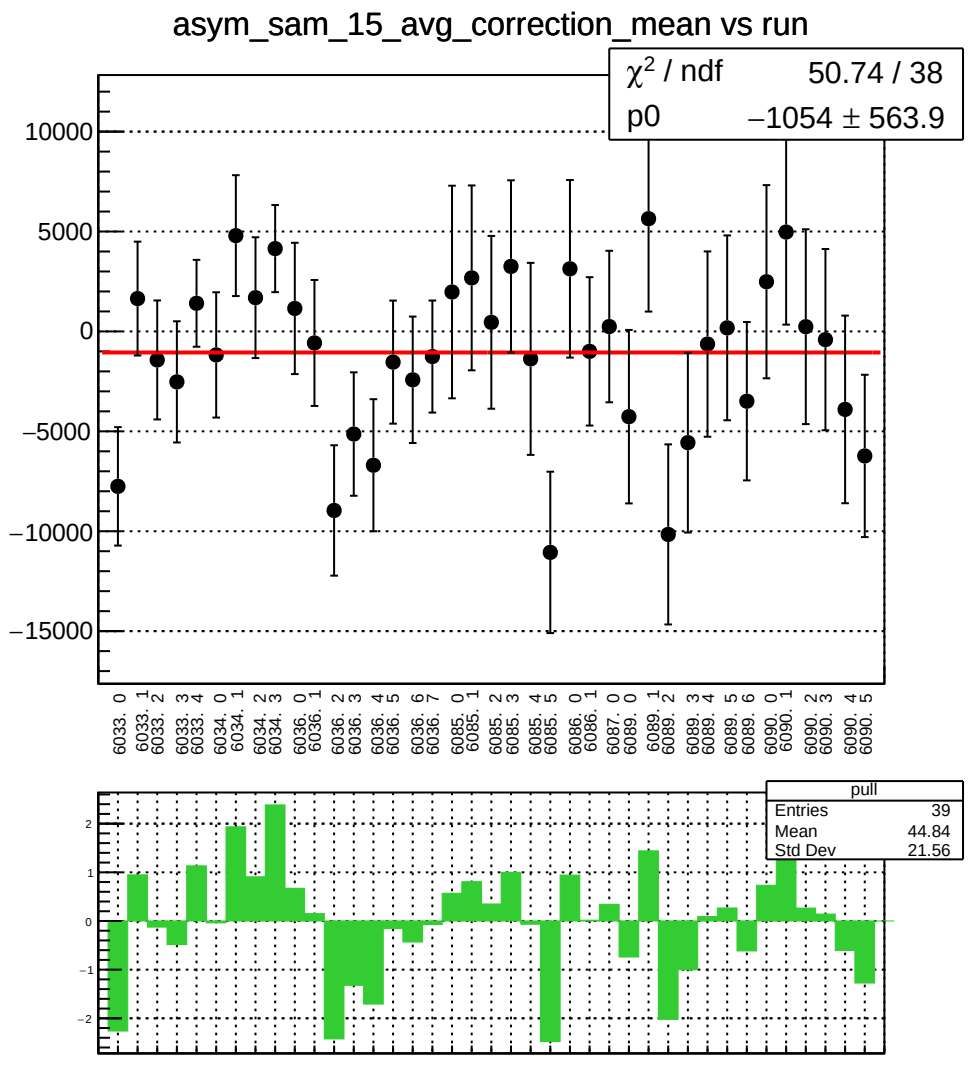

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

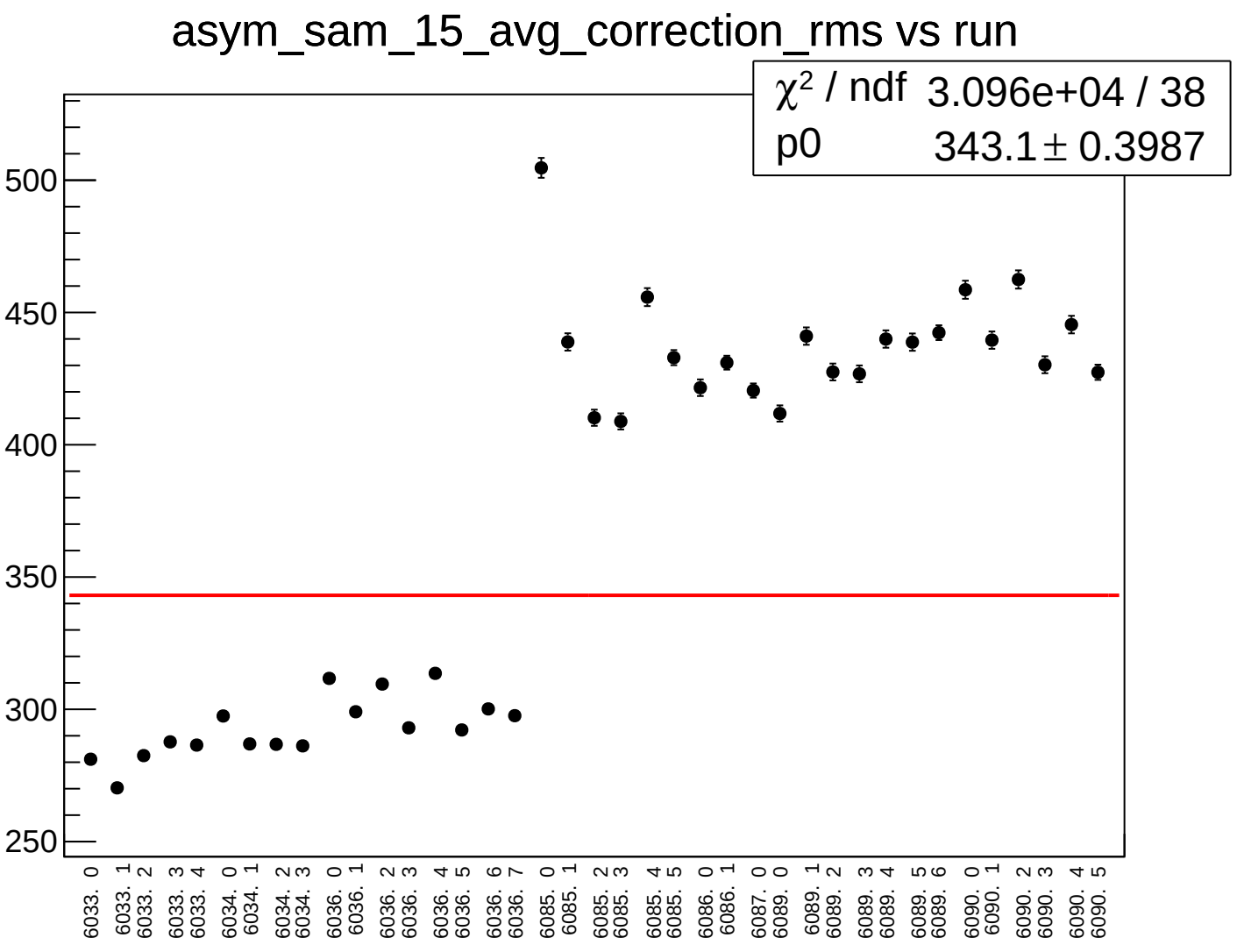

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

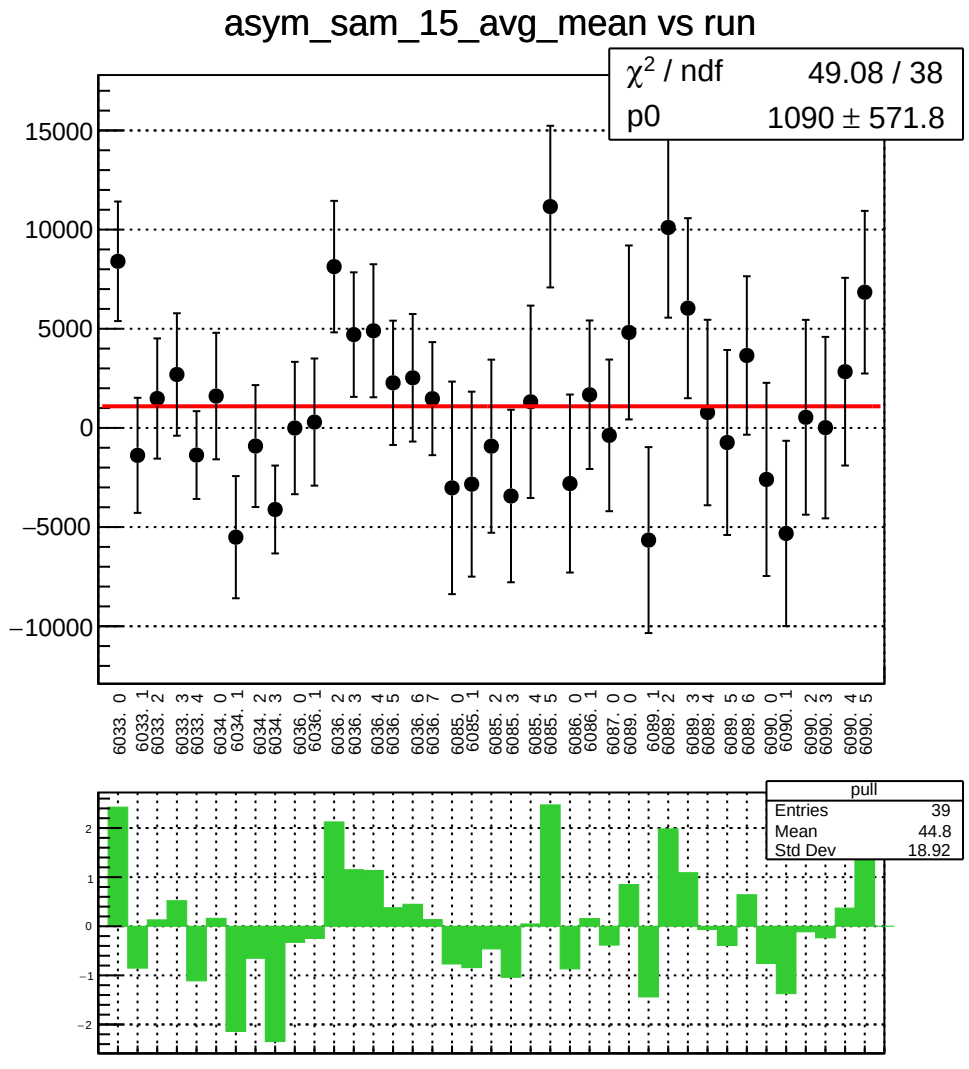

reg_asym_sam_15_avg_mean vs run
χ² / ndf 39.33 / 38
p0 12.47 ± 89.97
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 70.68
Std Dev 59.36
2
1
0
−1
−2
−3

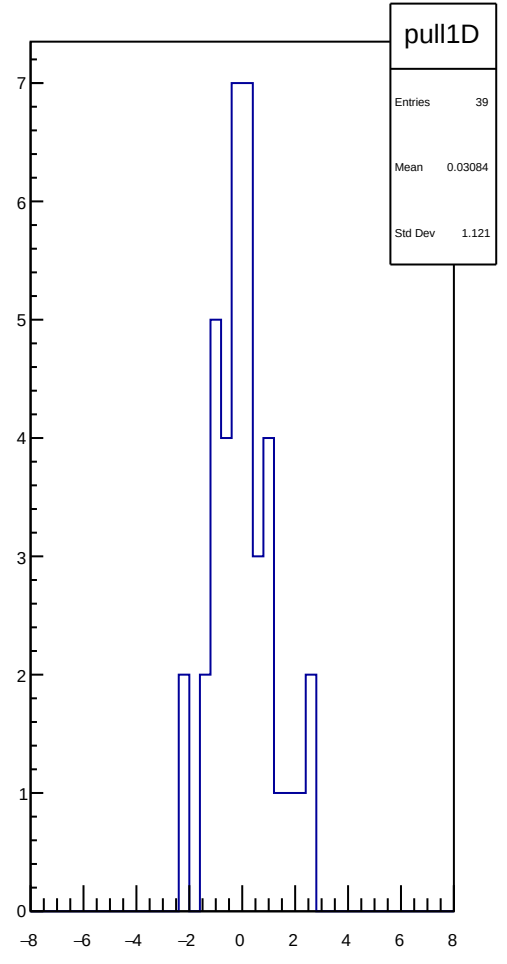

pull1D
Entries 39
Mean −0.01611
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

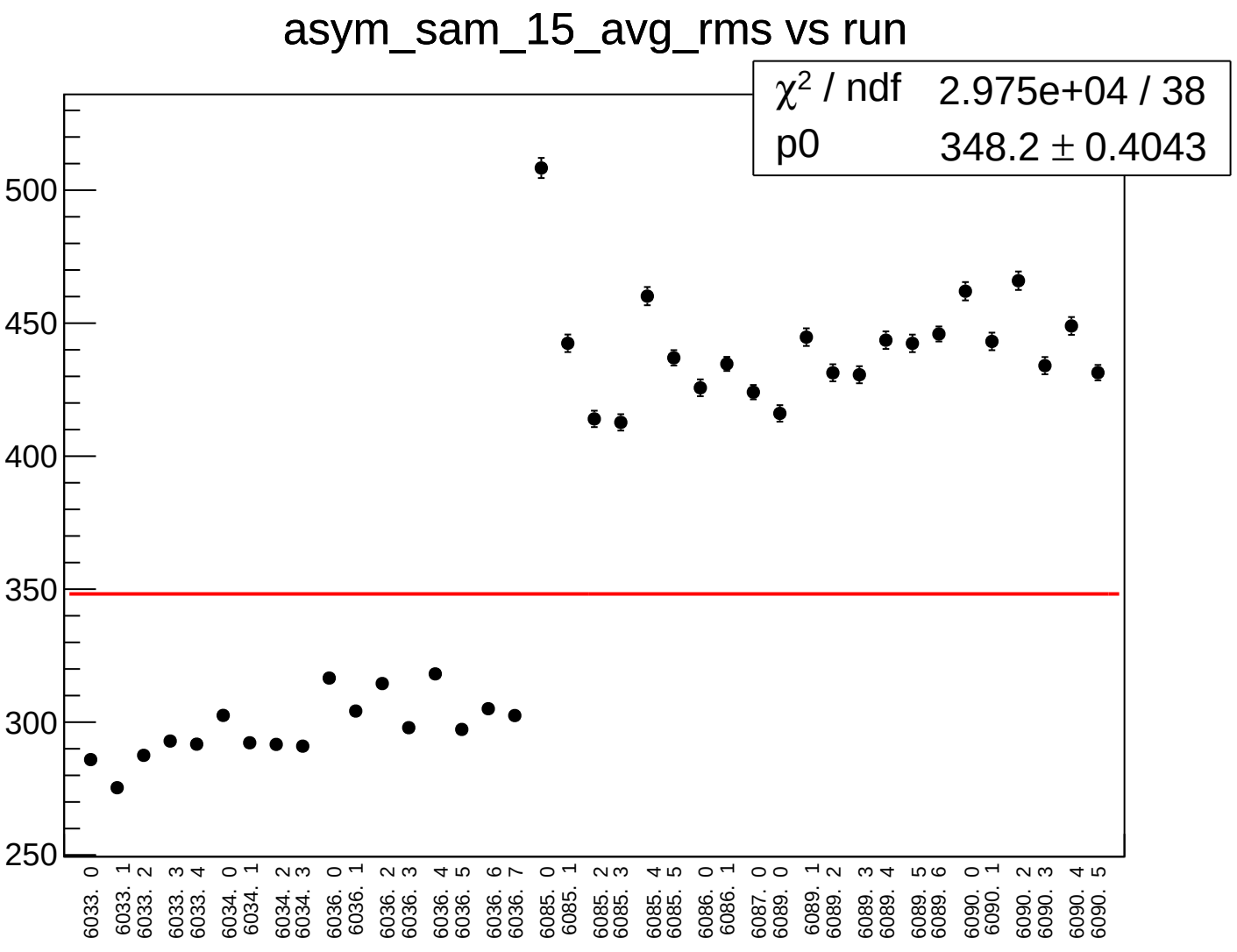

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1188 / 38
p0 55.83 ± 0.06362
64
62
60
58
56
54
52
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

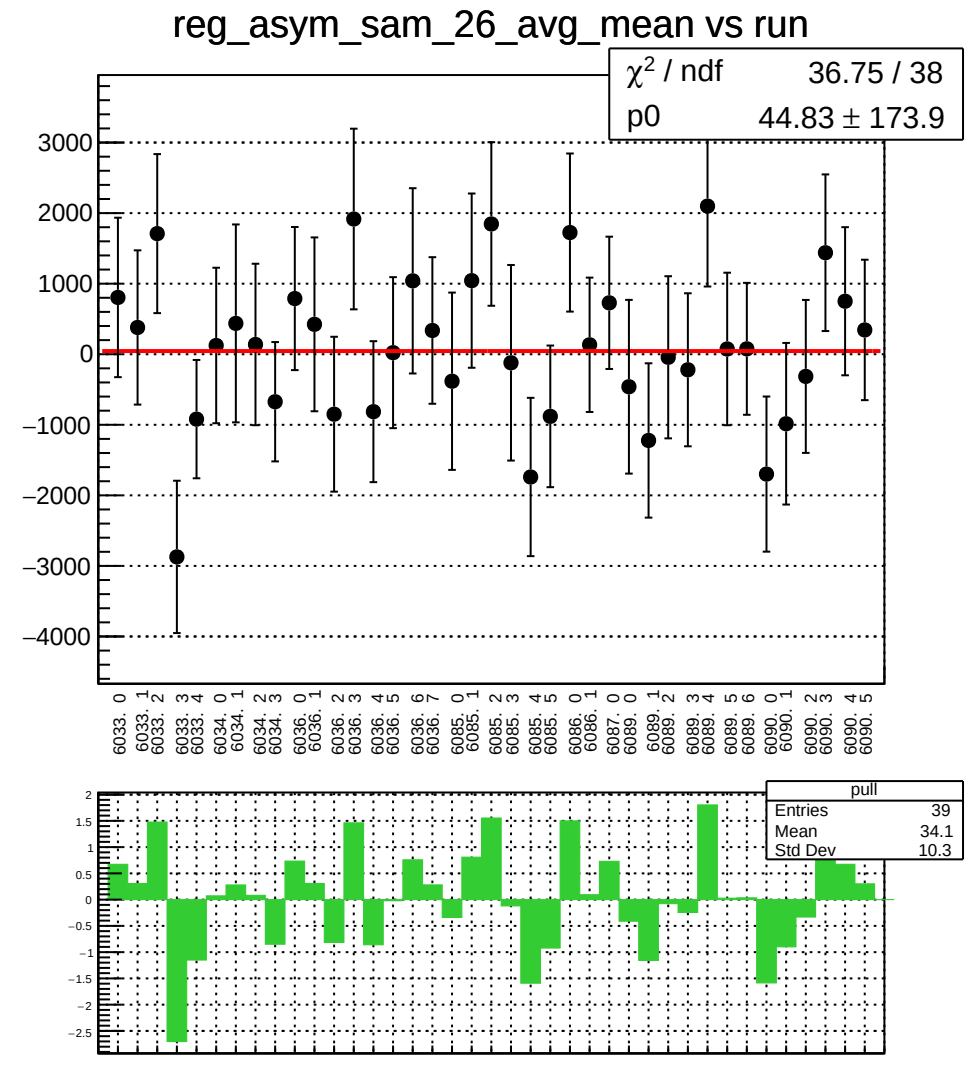

asym_sam_15_avg_correction_mean vs run
χ² / ndf 50.74 / 38
p0 −1054 ± 563.9
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 44.84
Std Dev 21.56
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03681
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

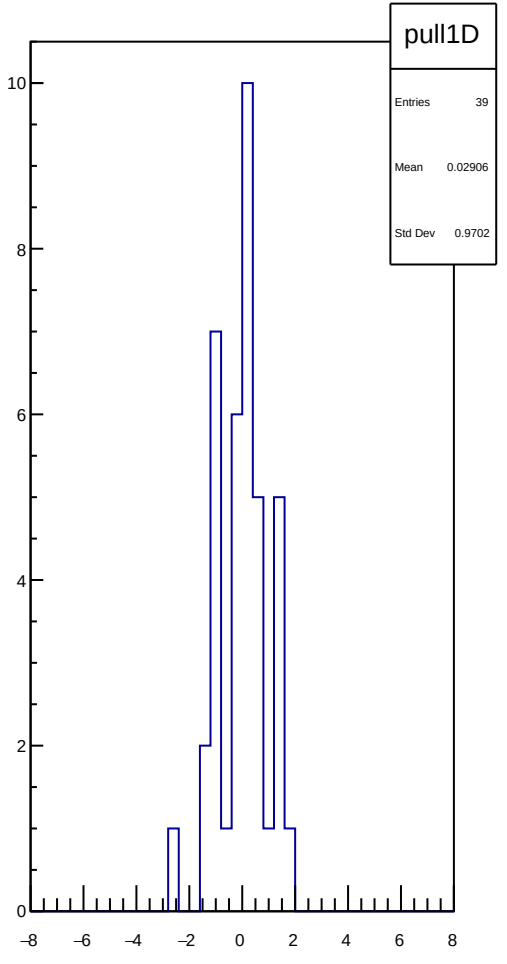

asym_sam_15_avg_correction_rms vs run
χ² / ndf 3.096e+04 / 38
p0 343.1 ± 0.3987
500
450
400
350
300
250
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

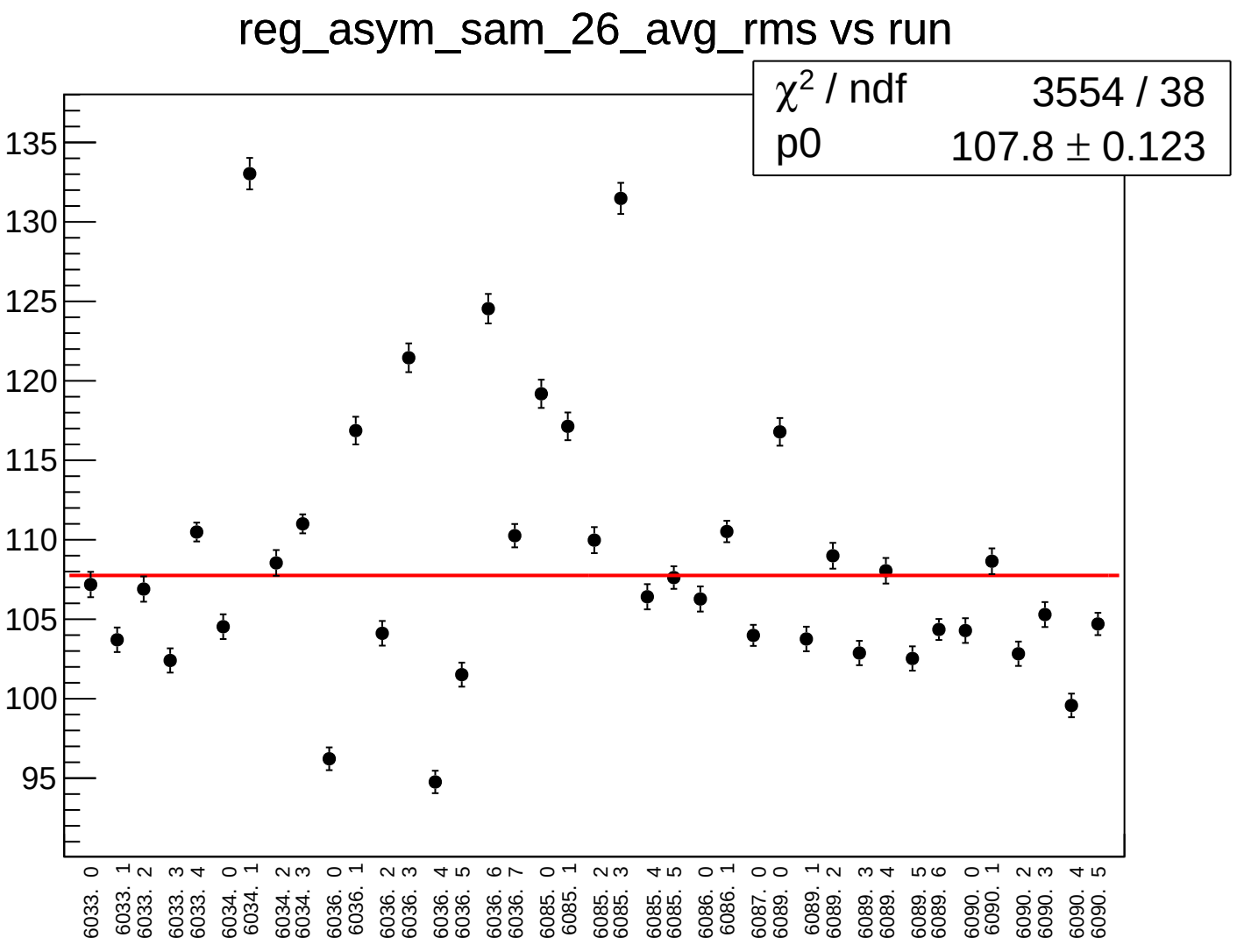

asym_sam_15_avg_mean vs run
χ² / ndf 49.08 / 38
p0 1090 ± 571.8
15000
10000
5000
0
−5000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 44.8
Std Dev 18.92
2
1
0
−1
−2

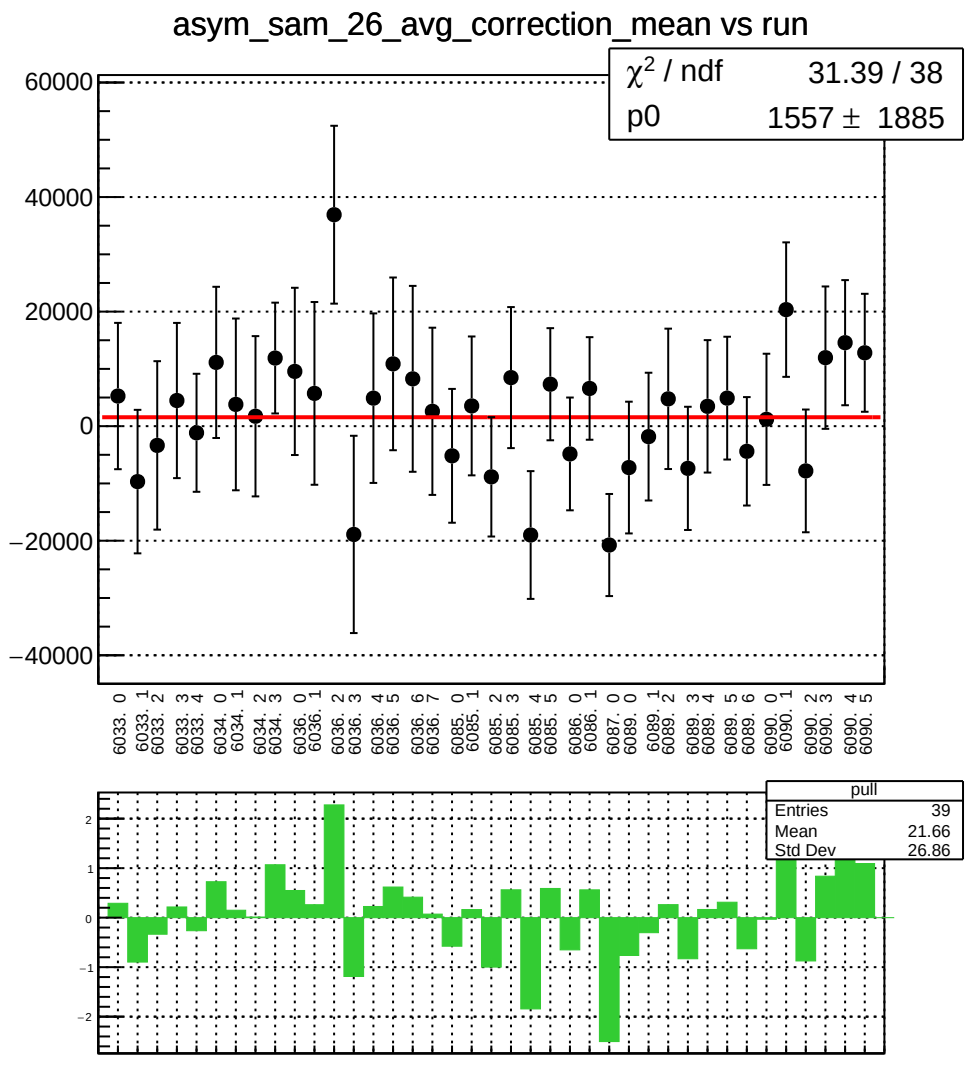

pull1D
Entries 39
Mean 0.03084
Std Dev 1.121
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

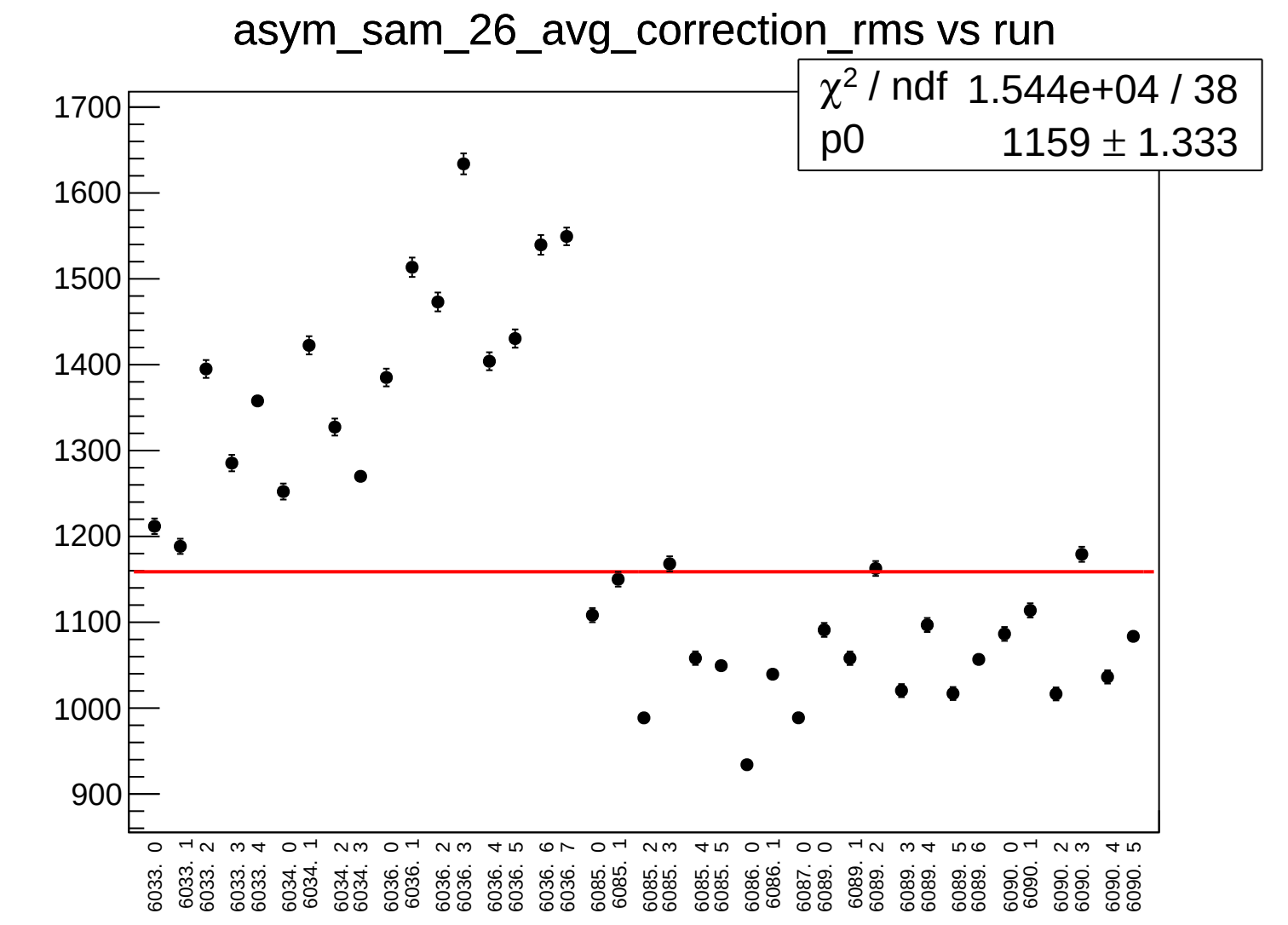

asym_sam_15_avg_rms vs run
χ² / ndf 2.975e+04 / 38
p0 348.2 ± 0.4043
500
450
400
350
300
250
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

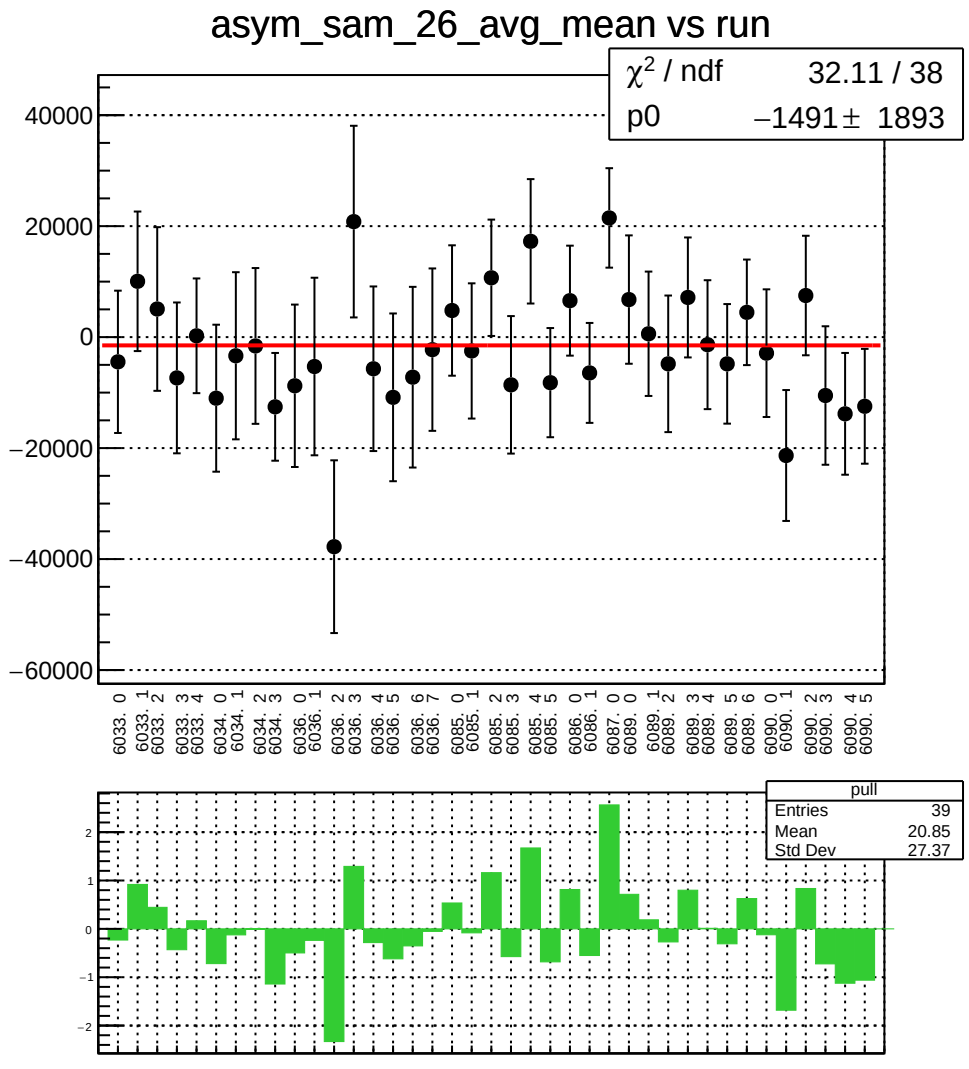

reg_asym_sam_26_avg_mean vs run
χ² / ndf 36.75 / 38
p0 44.83 ± 173.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 34.1
Std Dev 10.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

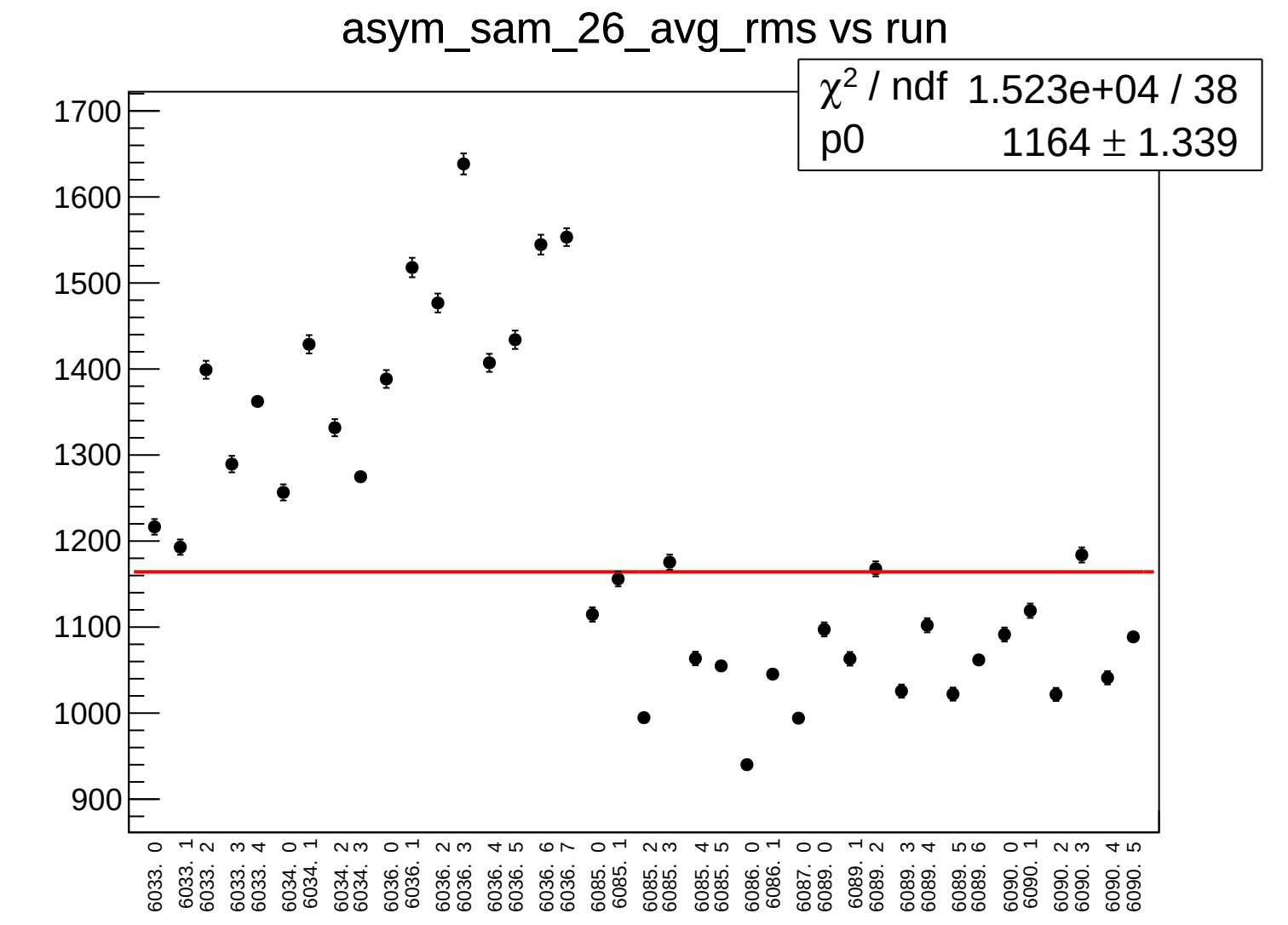

pull1D
Entries 39
Mean 0.02906
Std Dev 0.9702
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

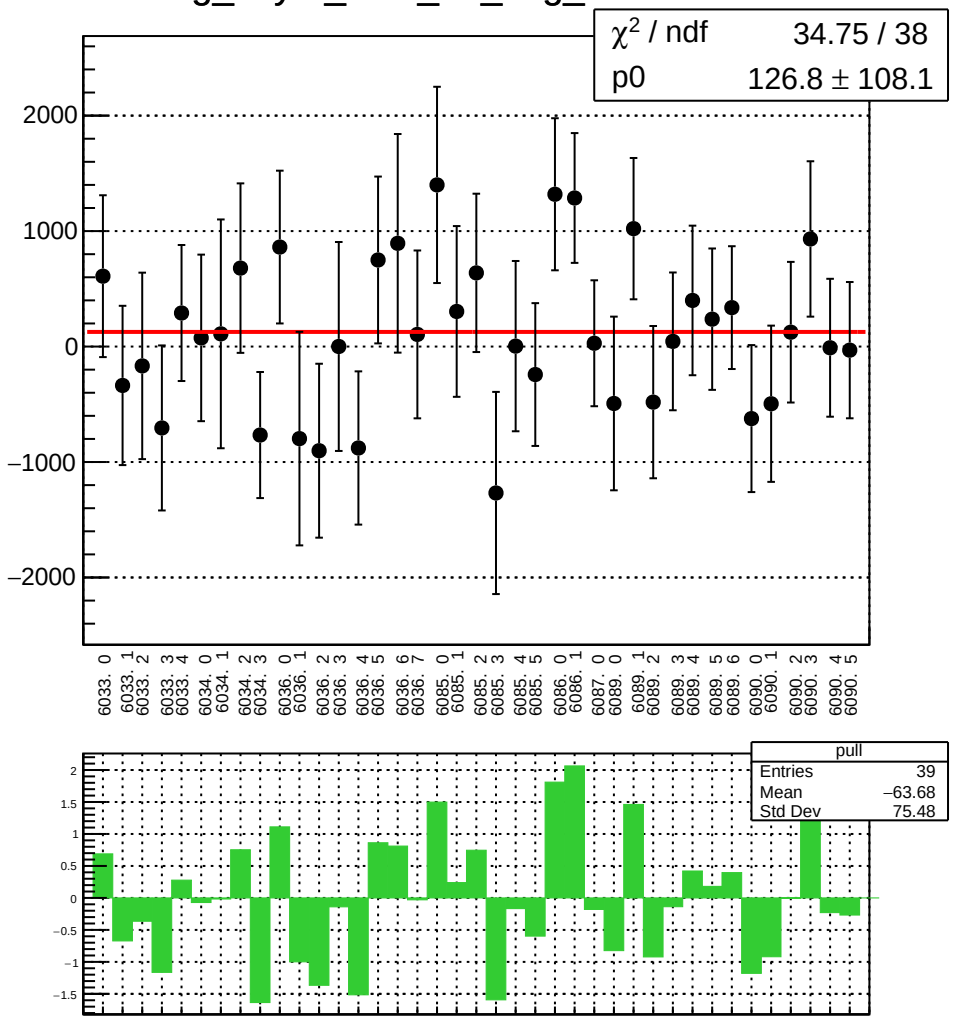

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3554 / 38
p0 107.8 ± 0.123
135
130
125
120
115
110
105
100
95
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

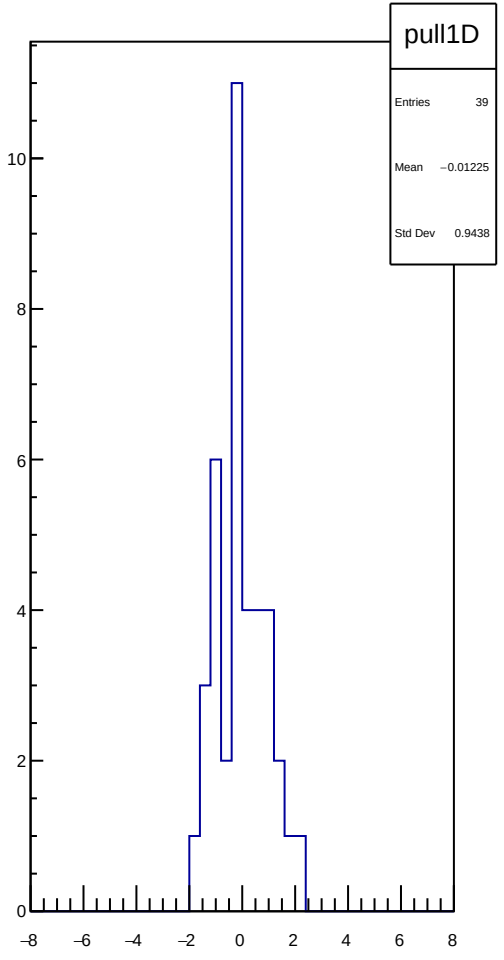

asym_sam_26_avg_correction_mean vs run
χ² / ndf 31.39 / 38
p0 1557 ± 1885
60000
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 21.66
Std Dev 26.86
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03916
Std Dev 0.8964
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

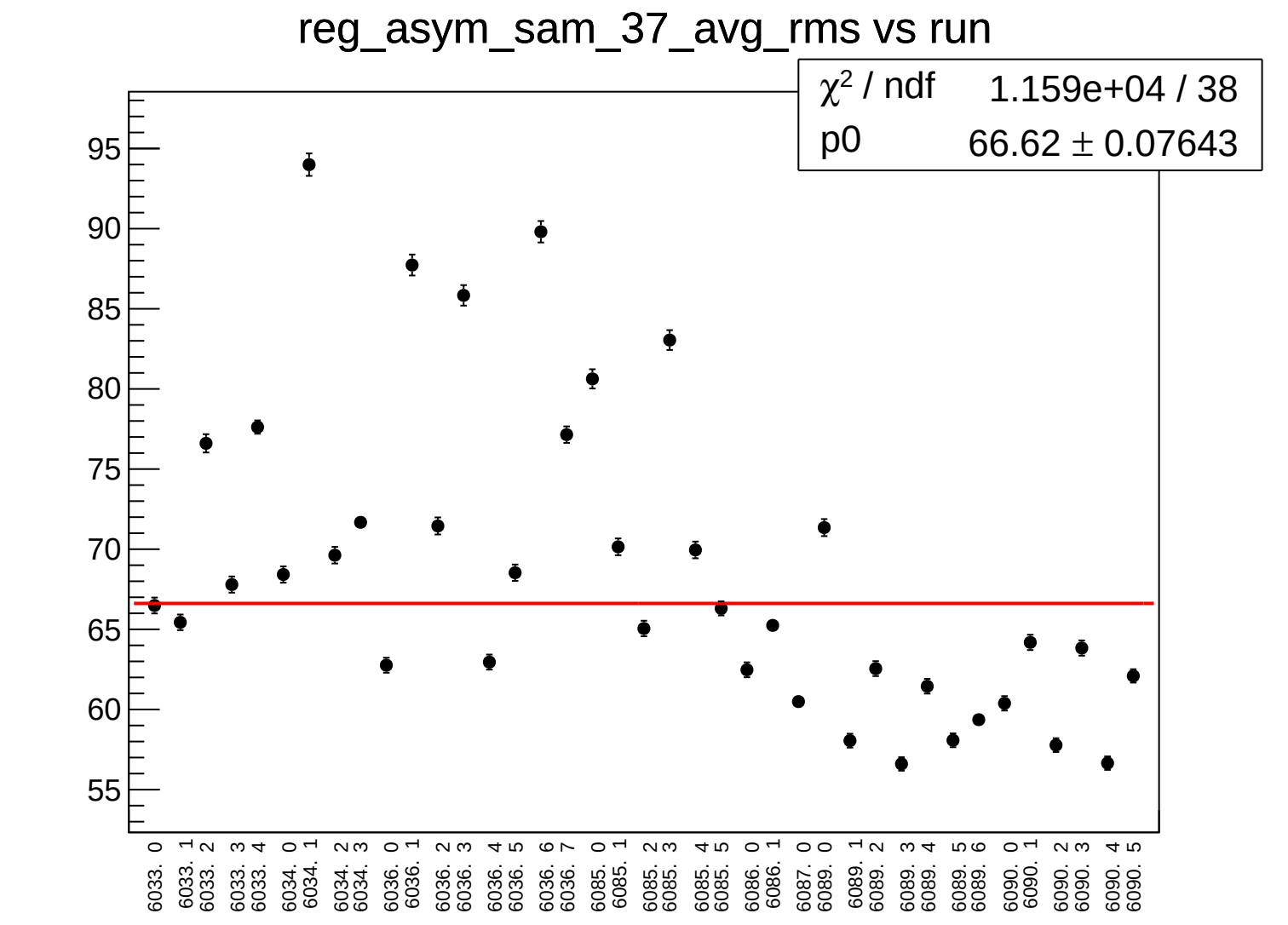

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.544e+04 / 38
p0 1159 ± 1.333
1700
1600
1500
1400
1300
1200
1100
1000
900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

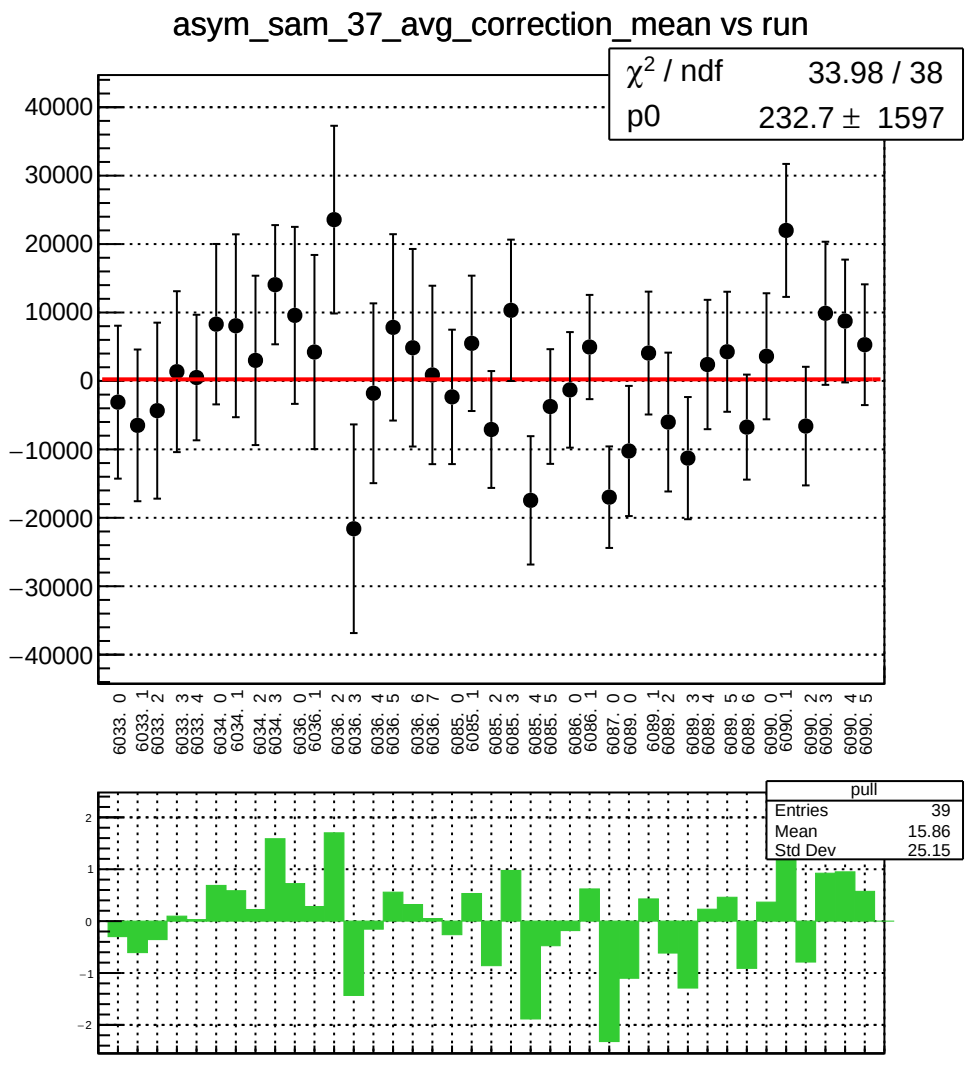

asym_sam_26_avg_mean vs run
χ² / ndf 32.11 / 38
p0 −1491 ± 1893
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 20.85
Std Dev 27.37
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.0376
Std Dev 0.9065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

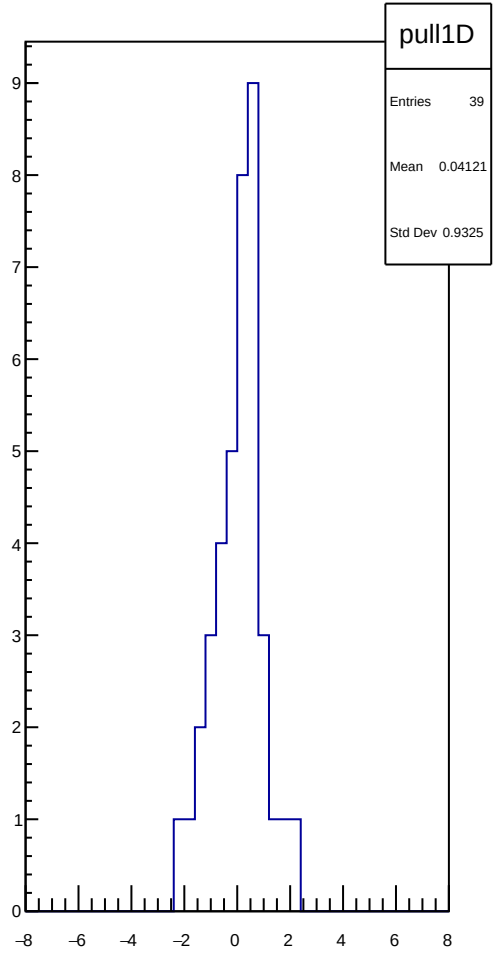

asym_sam_26_avg_rms vs run
χ² / ndf 1.523e+04 / 38
p0 1164 ± 1.339
1700
1600
1500
1400
1300
1200
1100
1000
900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

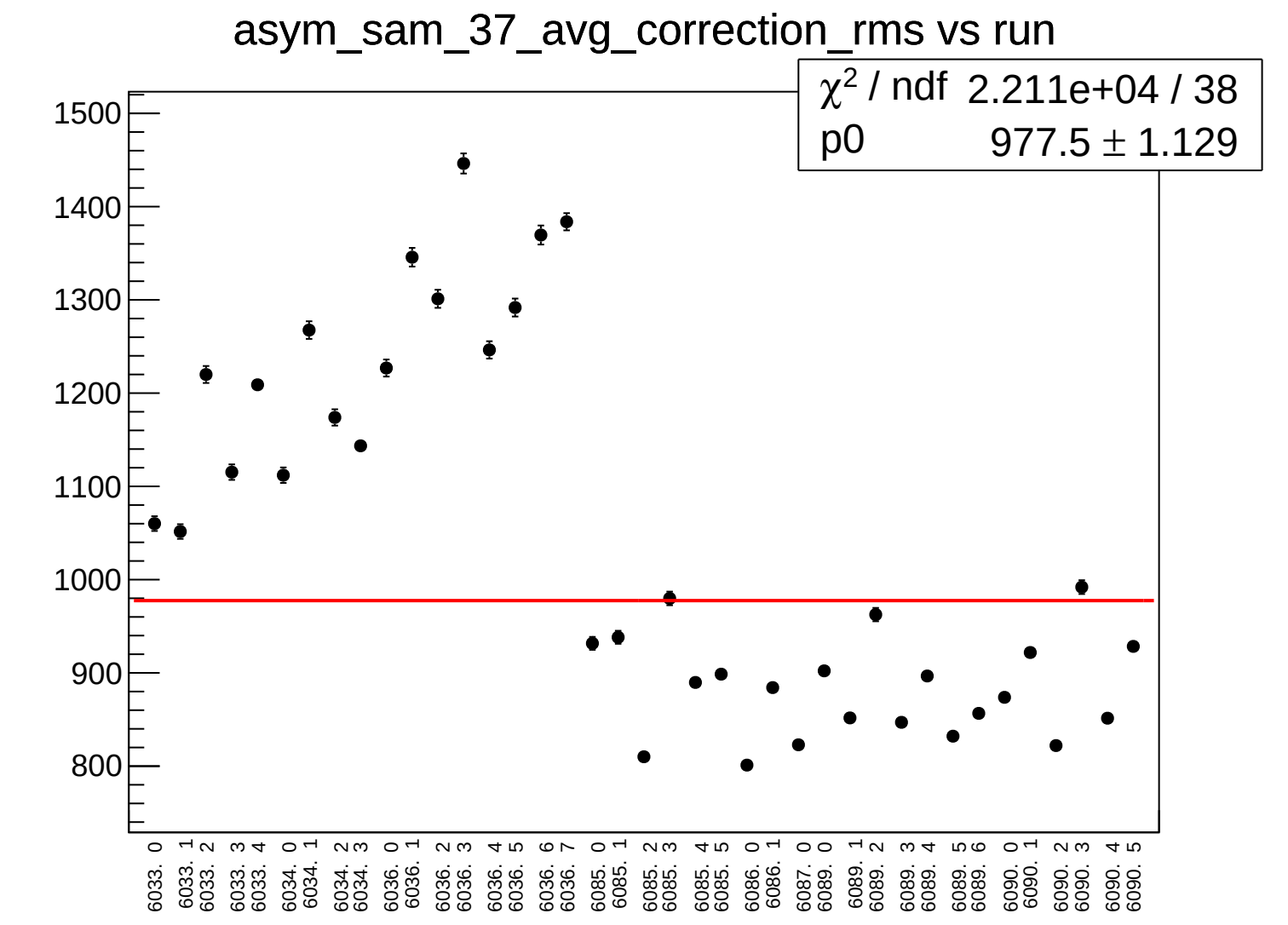

reg_asym_sam_37_avg_mean vs run
χ² / ndf 34.75 / 38
p0 126.8 ± 108.1
2000
1000
0
−1000
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −63.68
Std Dev 75.48
2
1.5
1
0.5
0
−0.5
−1
−1.5

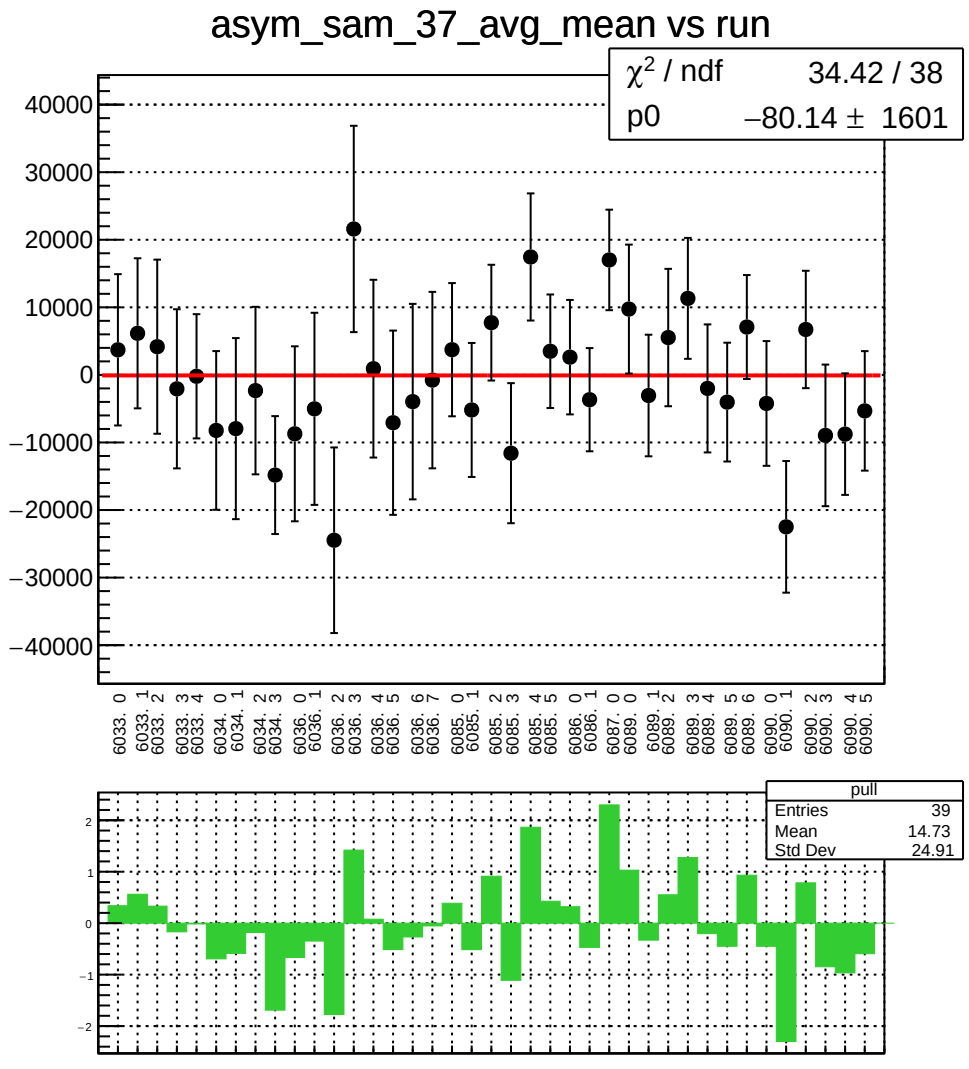

pull1D
Entries 39
Mean −0.01225
Std Dev 0.9438
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

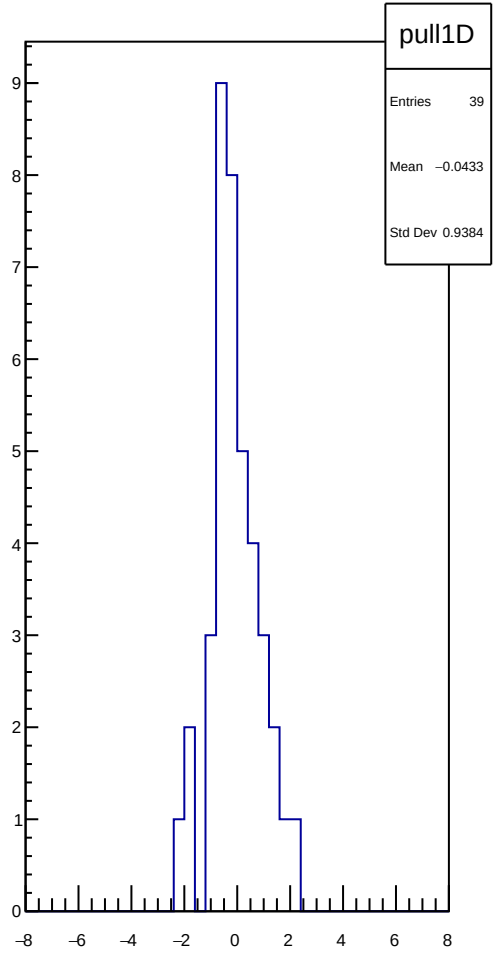

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.159e+04 / 38
p0 66.62 ± 0.07643
95
90
85
80
75
70
65
60
55
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

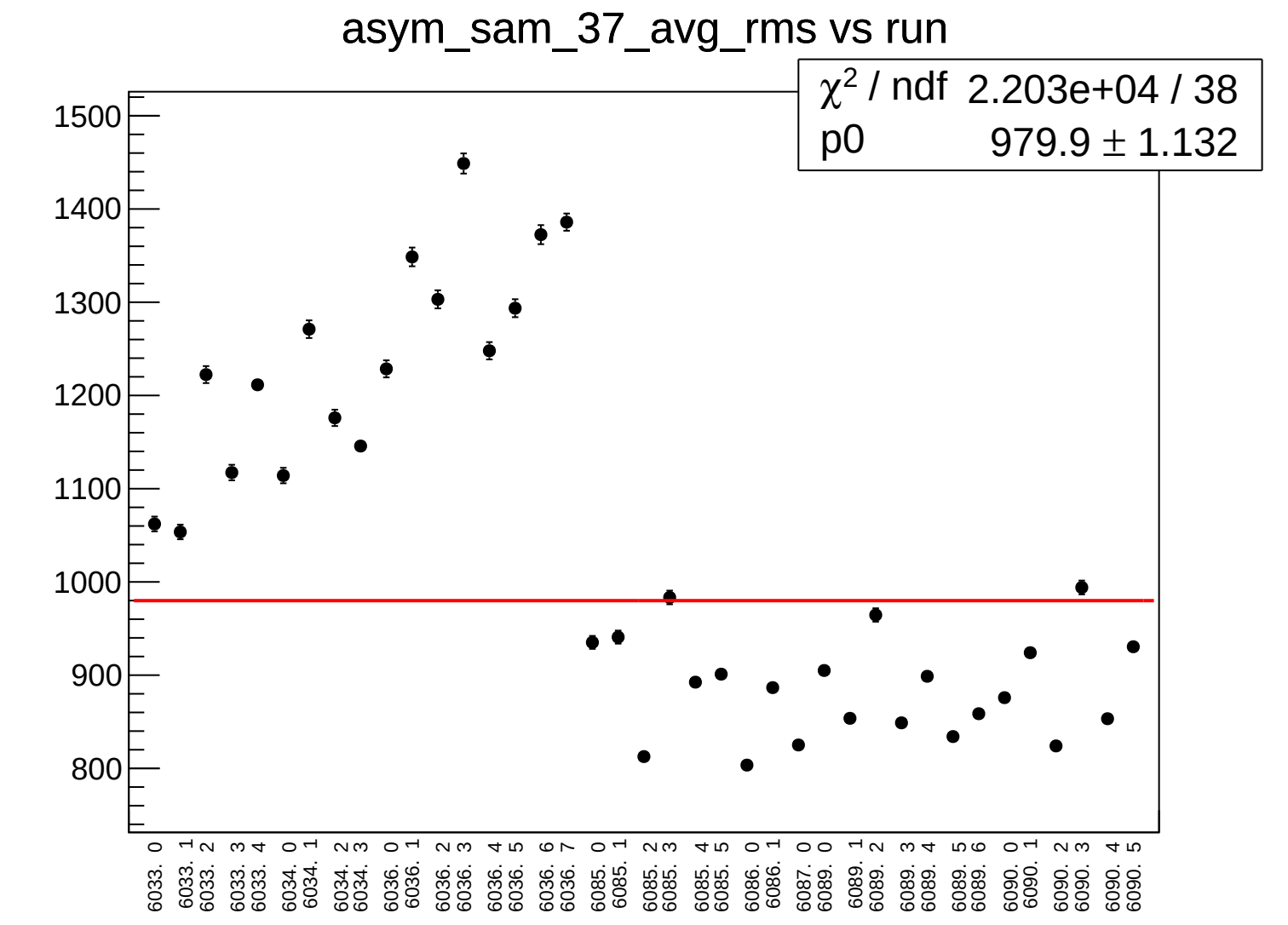

asym_sam_37_avg_correction_mean vs run
χ² / ndf 33.98 / 38
p0 232.7 ± 1597
pull
Entries 39
Mean 15.86
Std Dev 25.15

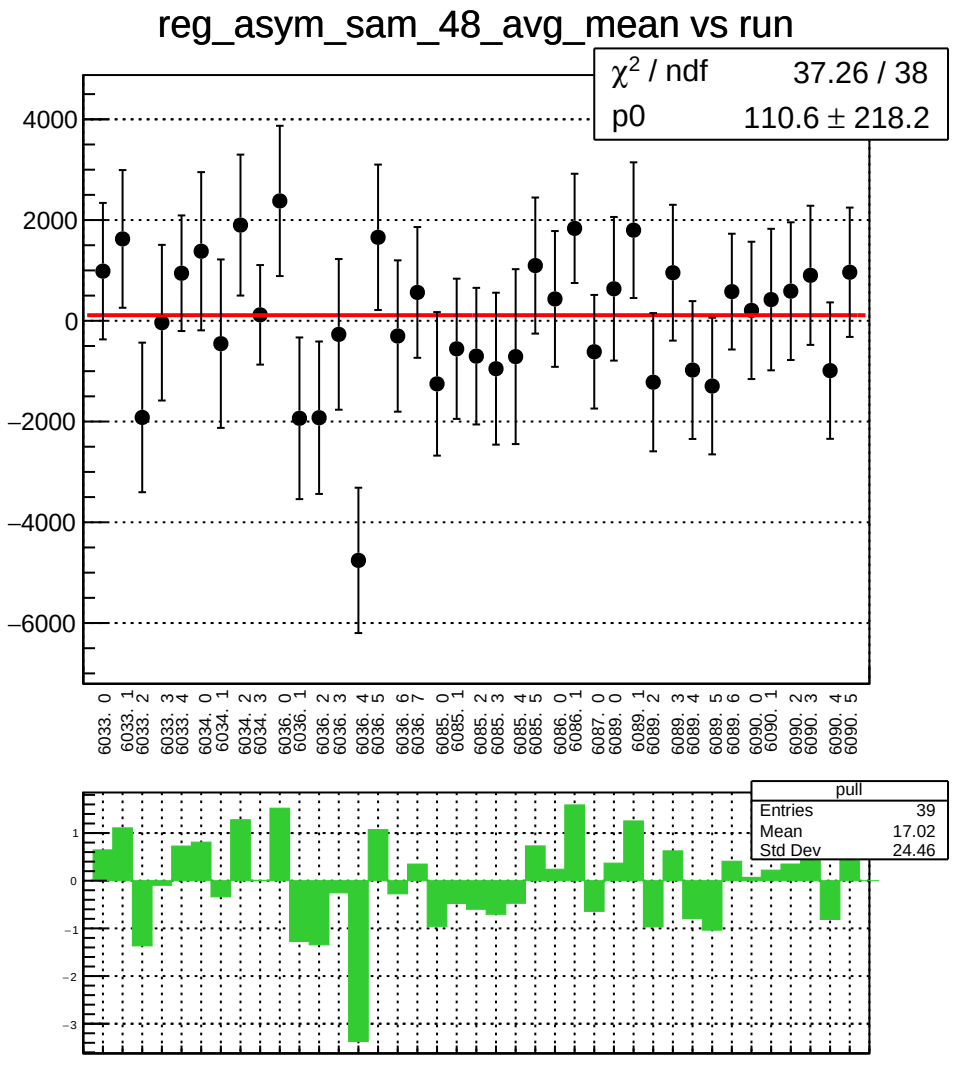

pull1D
Entries 39
Mean 0.04121
Std Dev 0.9325

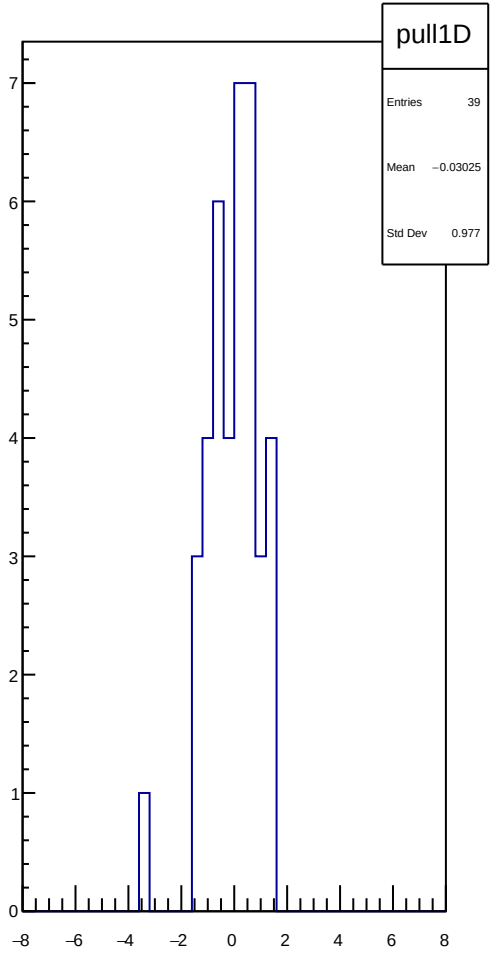

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2.211e+04 / 38
p0 977.5 ± 1.129
1500
1400
1300
1200
1100
1000
900
800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

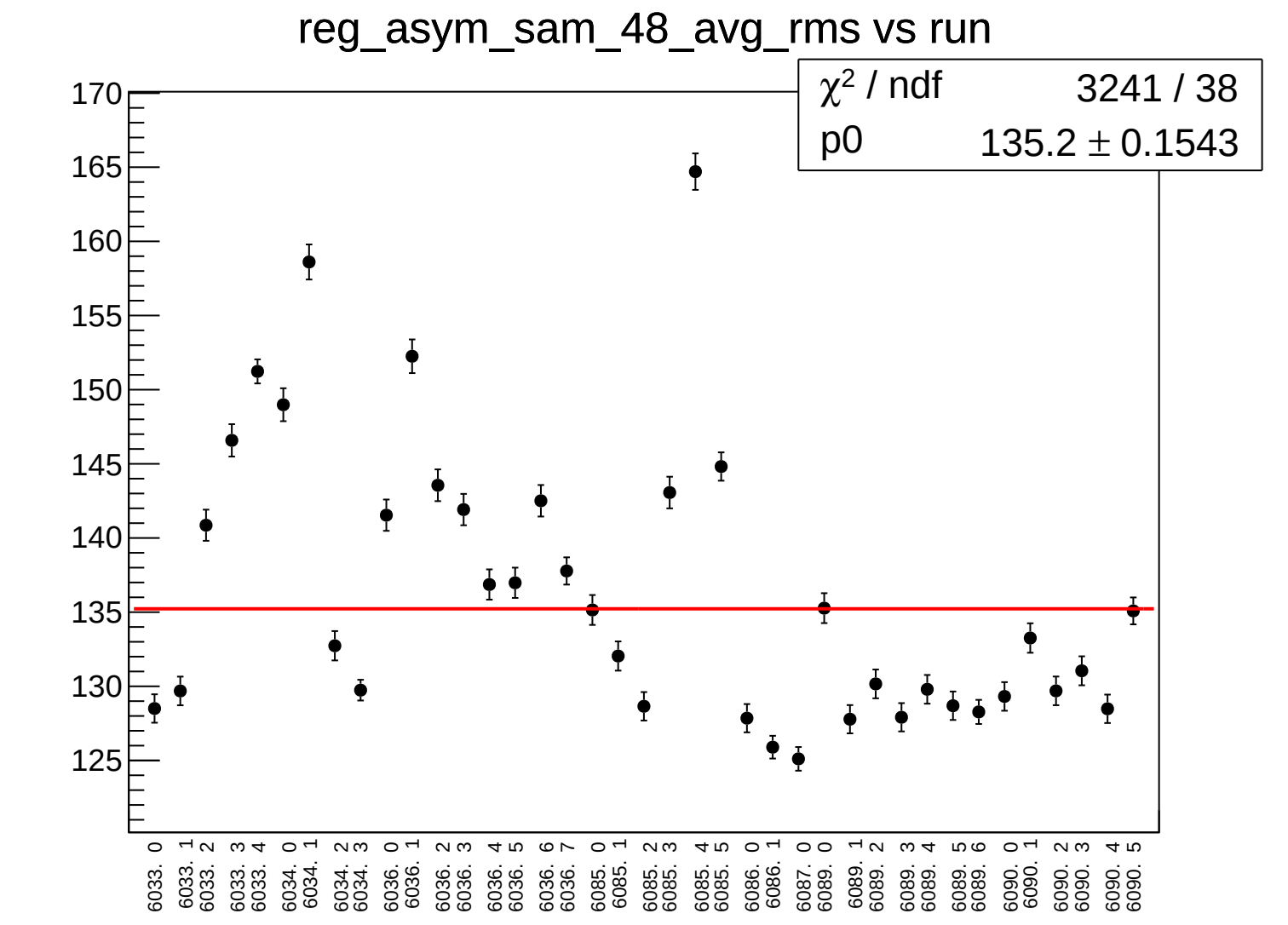

asym_sam_37_avg_mean vs run
χ² / ndf 34.42 / 38
p0 −80.14 ± 1601
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 14.73
Std Dev 24.91
2
1
0
−1
−2

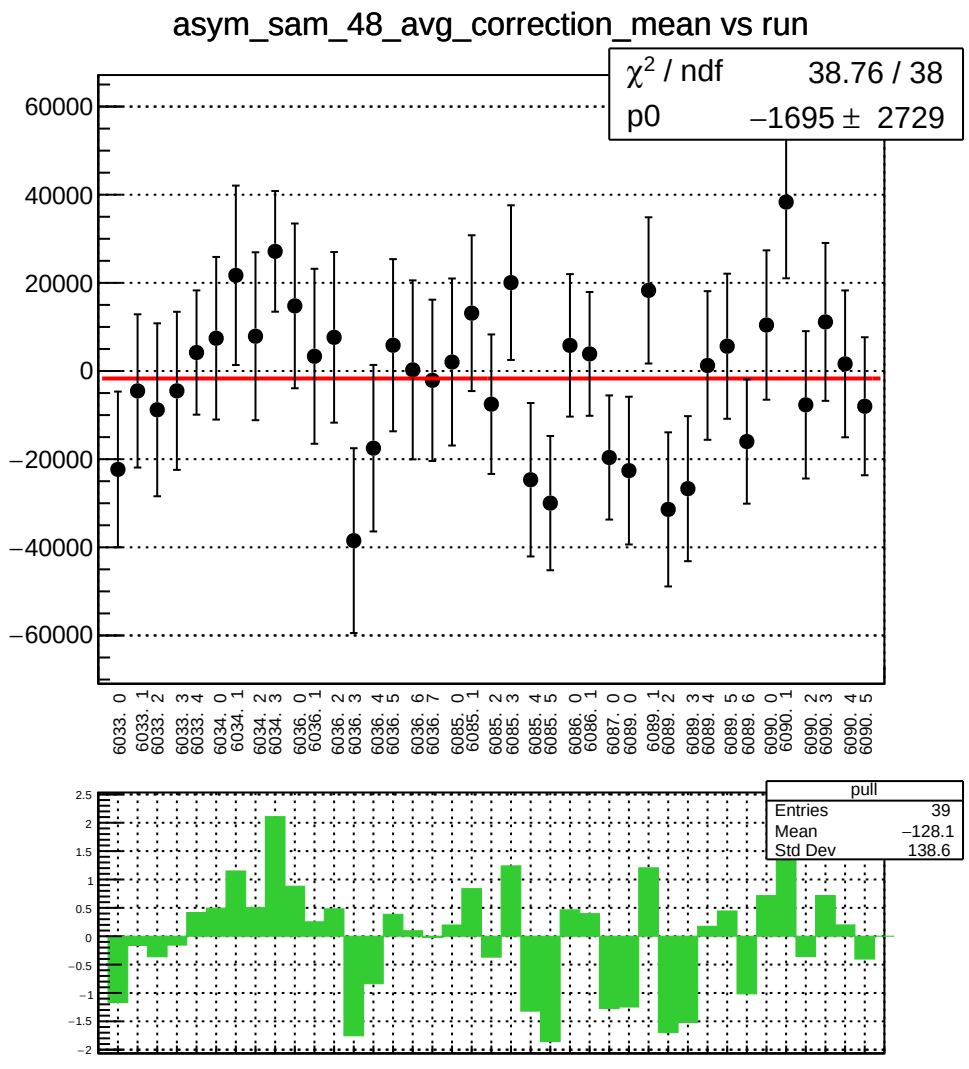

pull1D
Entries 39
Mean −0.0433
Std Dev 0.9384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

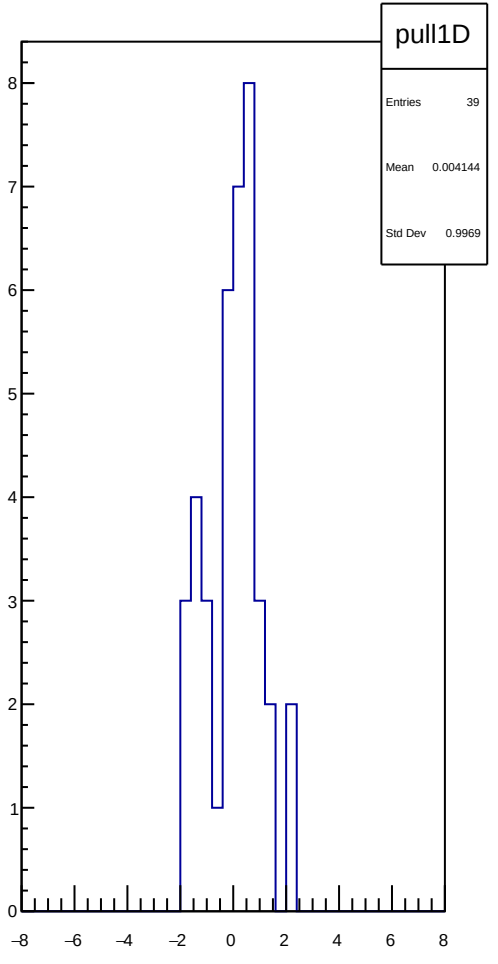

asym_sam_37_avg_rms vs run
χ² / ndf 2.203e+04 / 38
p0 979.9 ± 1.132
1500
1400
1300
1200
1100
1000
900
800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

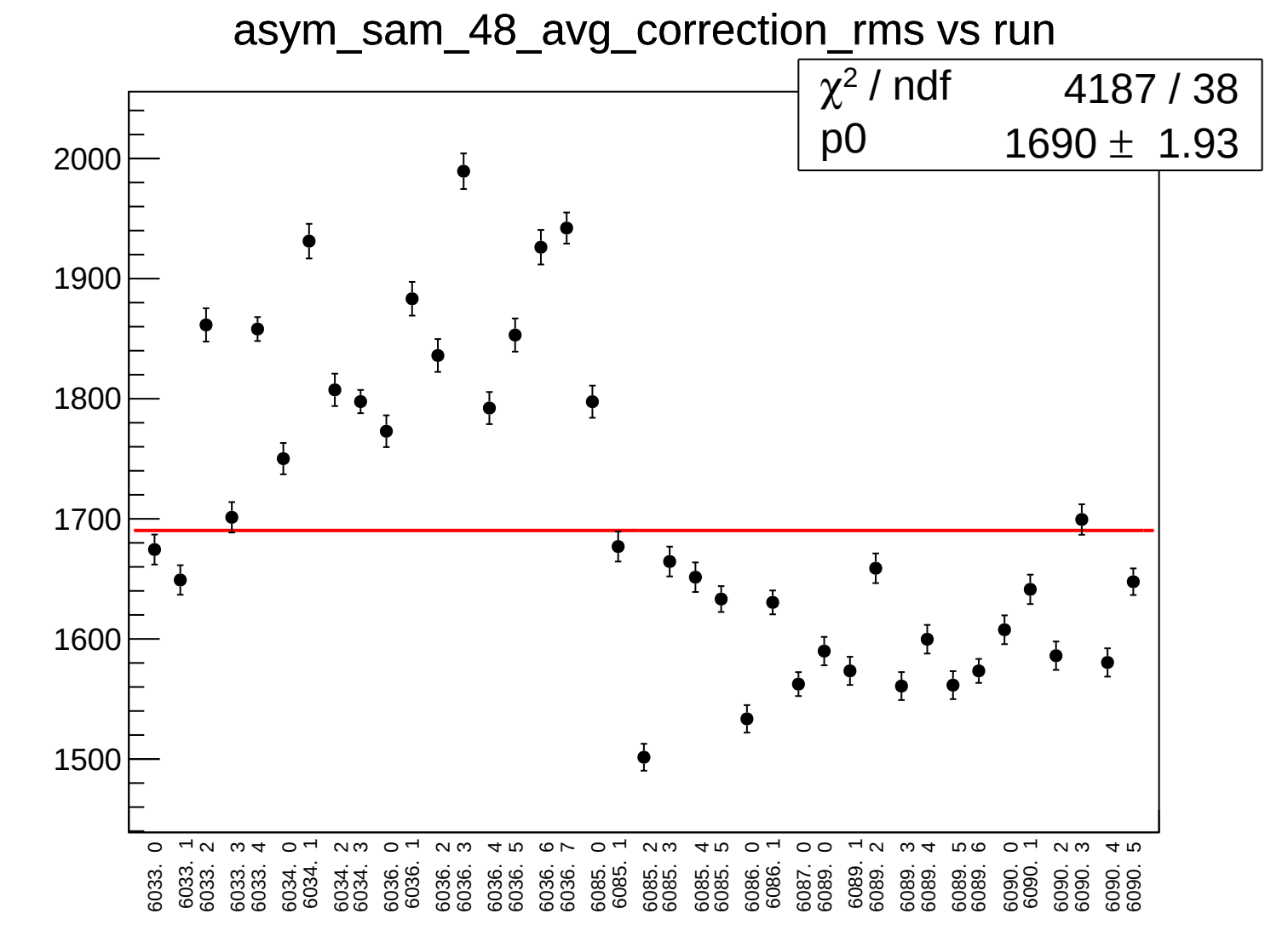

reg_asym_sam_48_avg_mean vs run
χ² / ndf 37.26 / 38
p0 110.6 ± 218.2
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 17.02
Std Dev 24.46
1
0
−1
−2
−3

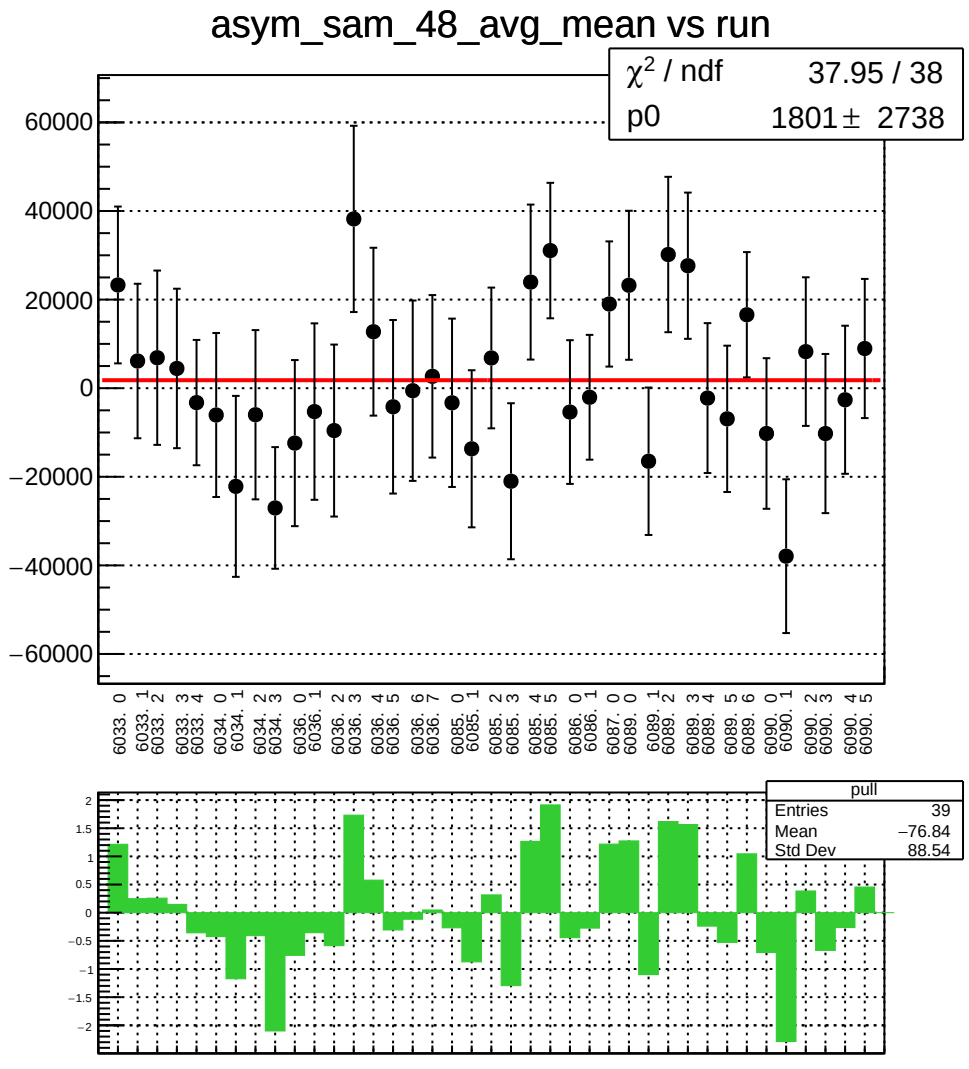

pull1D
Entries 39
Mean −0.03025
Std Dev 0.977
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

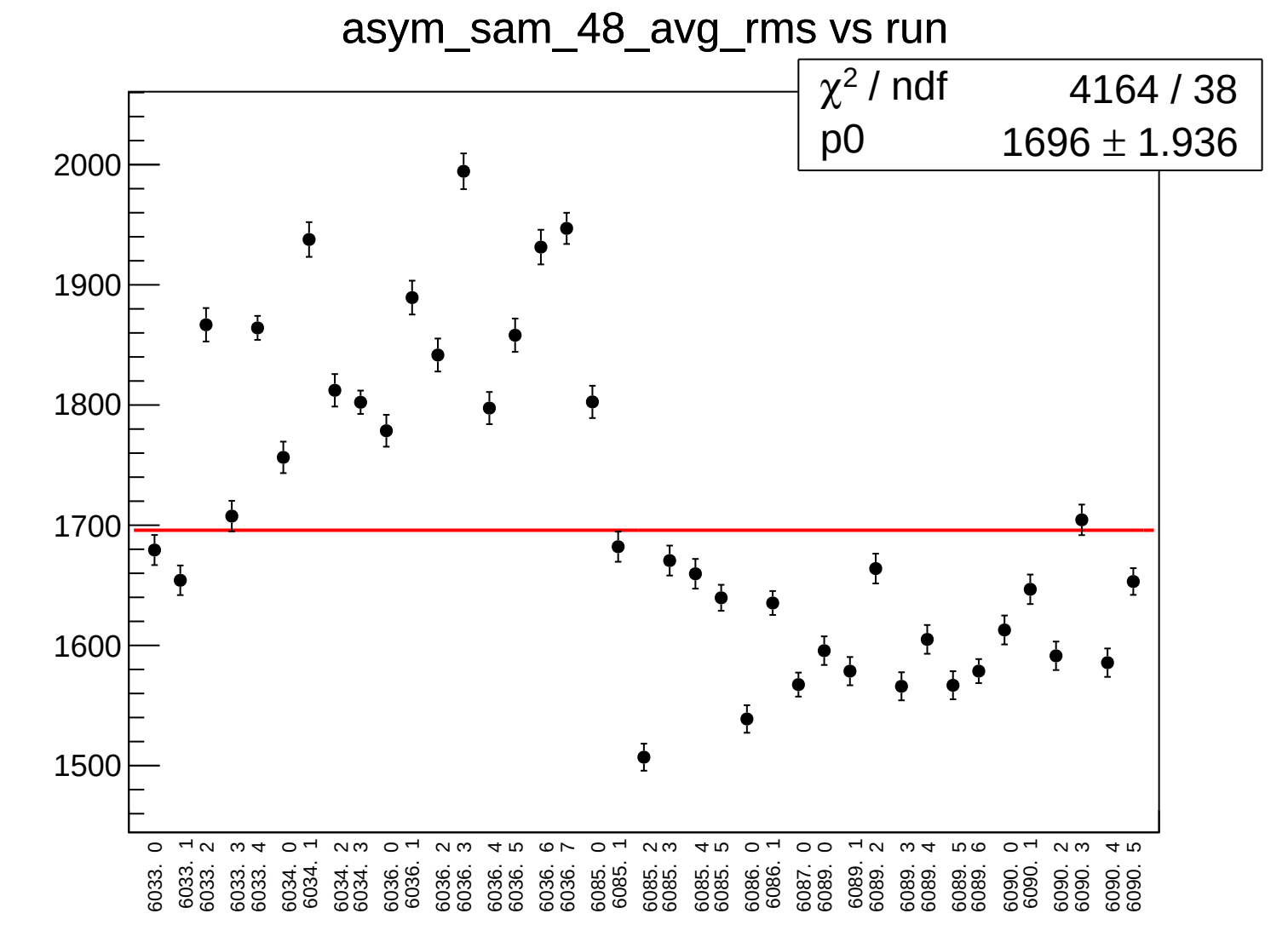

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3241 / 38
p0 135.2 ± 0.1543
170
165
160
155
150
145
140
135
130
125
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

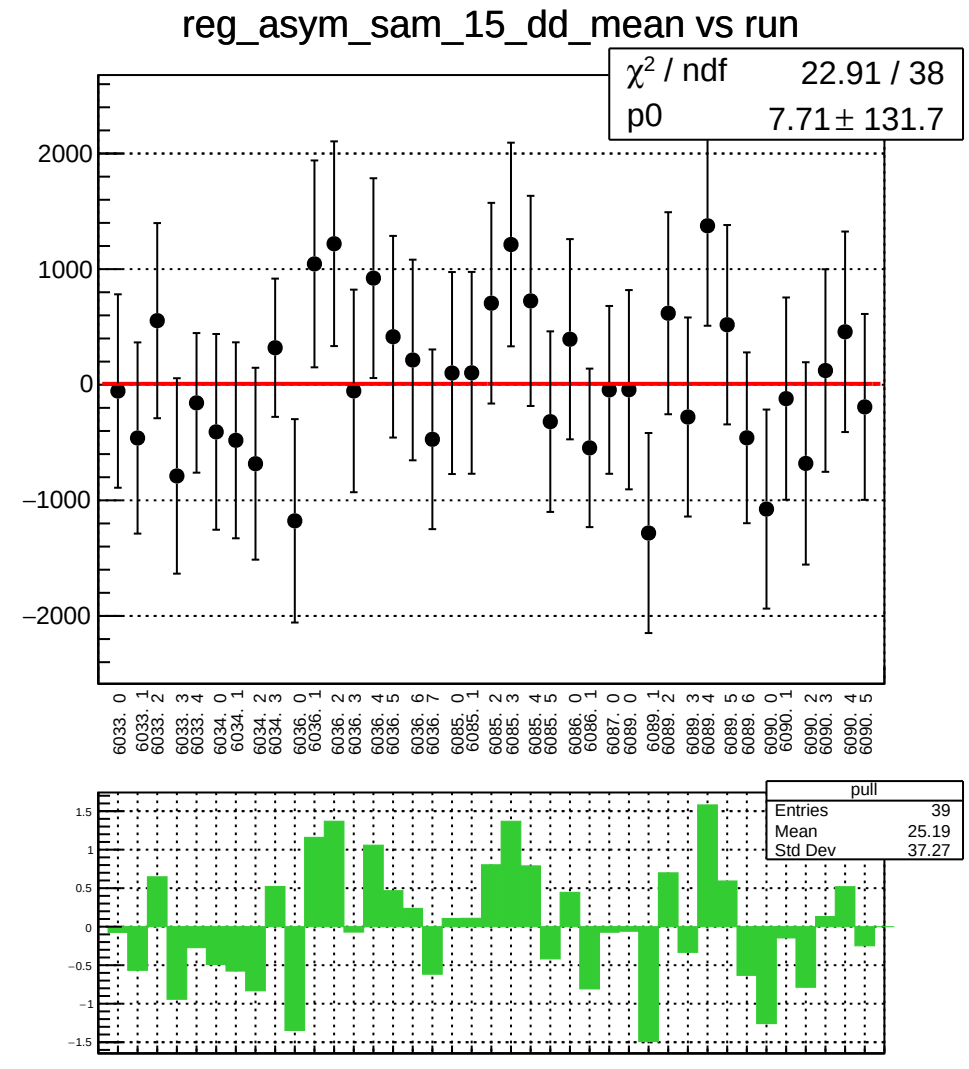

asym_sam_48_avg_correction_mean vs run
χ² / ndf 38.76 / 38
p0 −1695 ± 2729
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −128.1
Std Dev 138.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

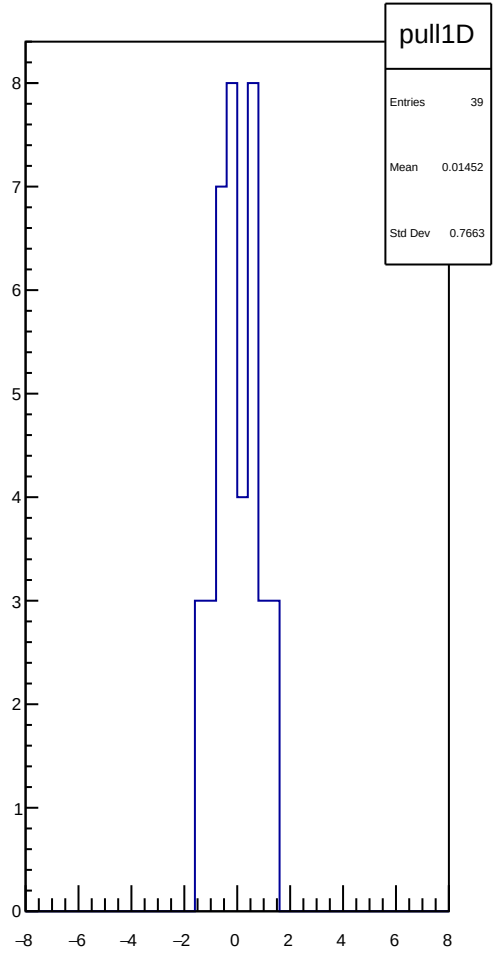

pull1D
Entries 39
Mean 0.004144
Std Dev 0.9969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

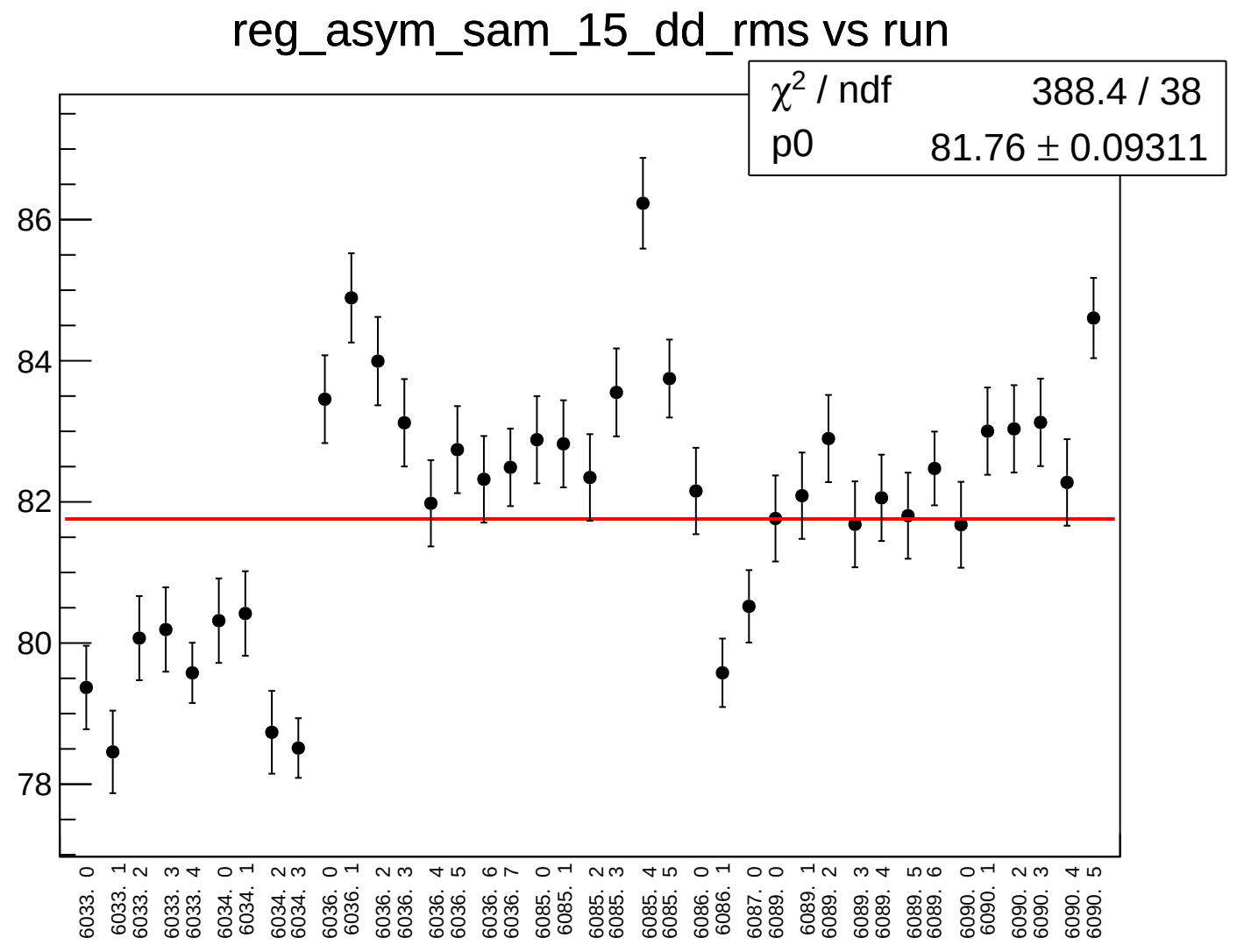

asym_sam_48_avg_correction_rms vs run
χ² / ndf 4187 / 38
p0 1690 ± 1.93
2000
1900
1800
1700
1600
1500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

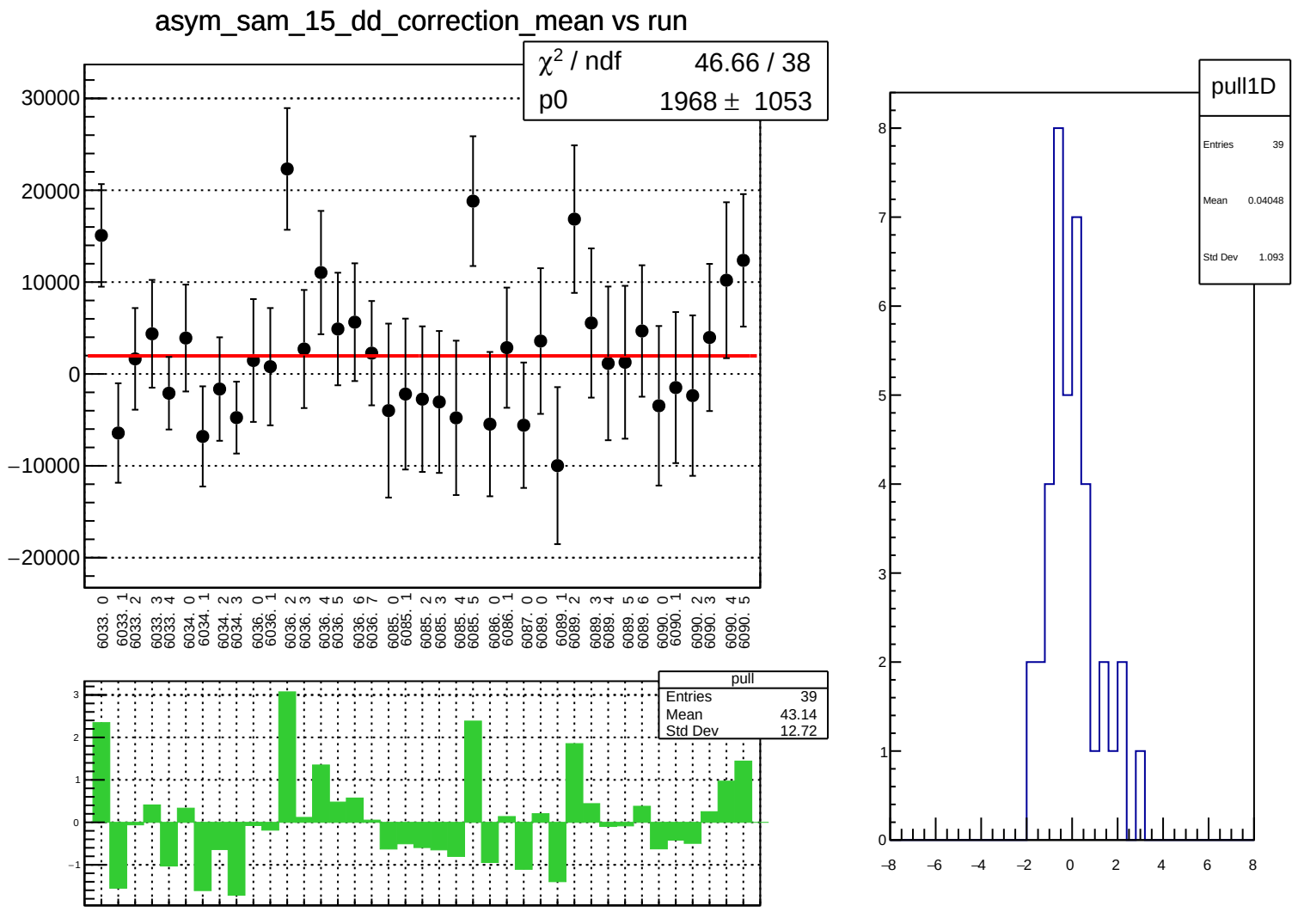

asym_sam_48_avg_mean vs run
χ² / ndf 37.95 / 38
p0 1801 ± 2738
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −76.84
Std Dev 88.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.006369
Std Dev 0.9864
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

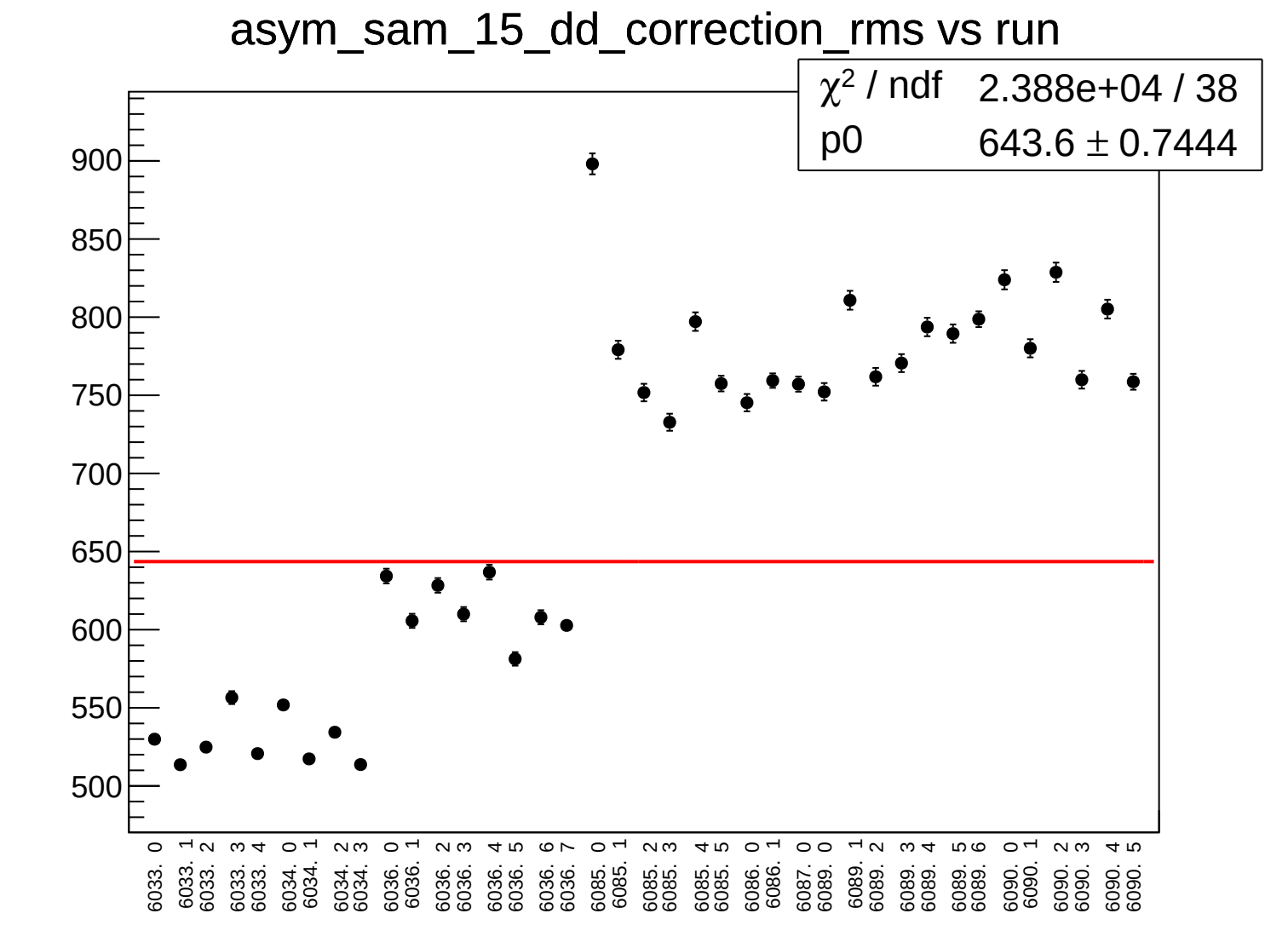

asym_sam_48_avg_rms vs run
χ² / ndf 4164 / 38
p0 1696 ± 1.936
2000
1900
1800
1700
1600
1500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

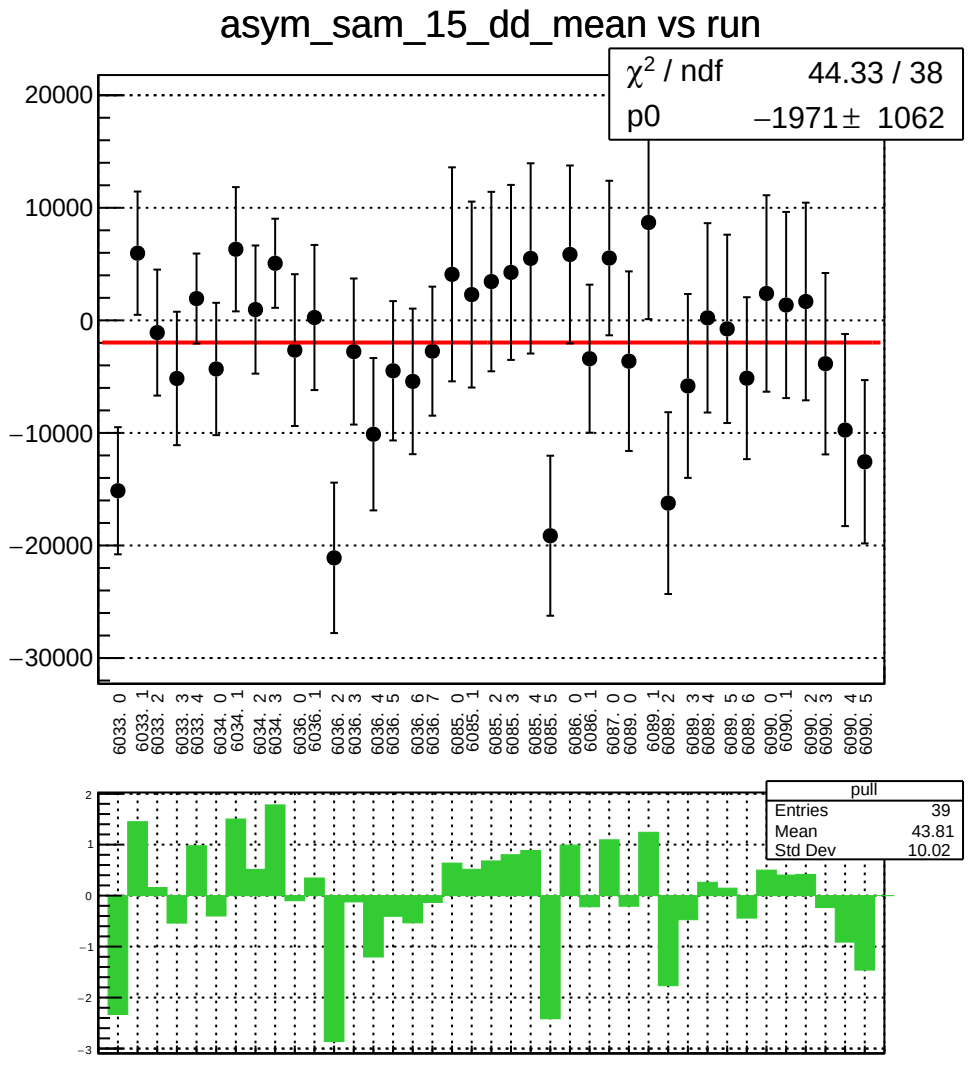

reg_asym_sam_15_dd_mean vs run
χ² / ndf 22.91 / 38
p0 7.71 ± 131.7
2000
1000
0
−1000
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 25.19
Std Dev 37.27
1.5
1
0.5
0
−0.5
−1
−1.5

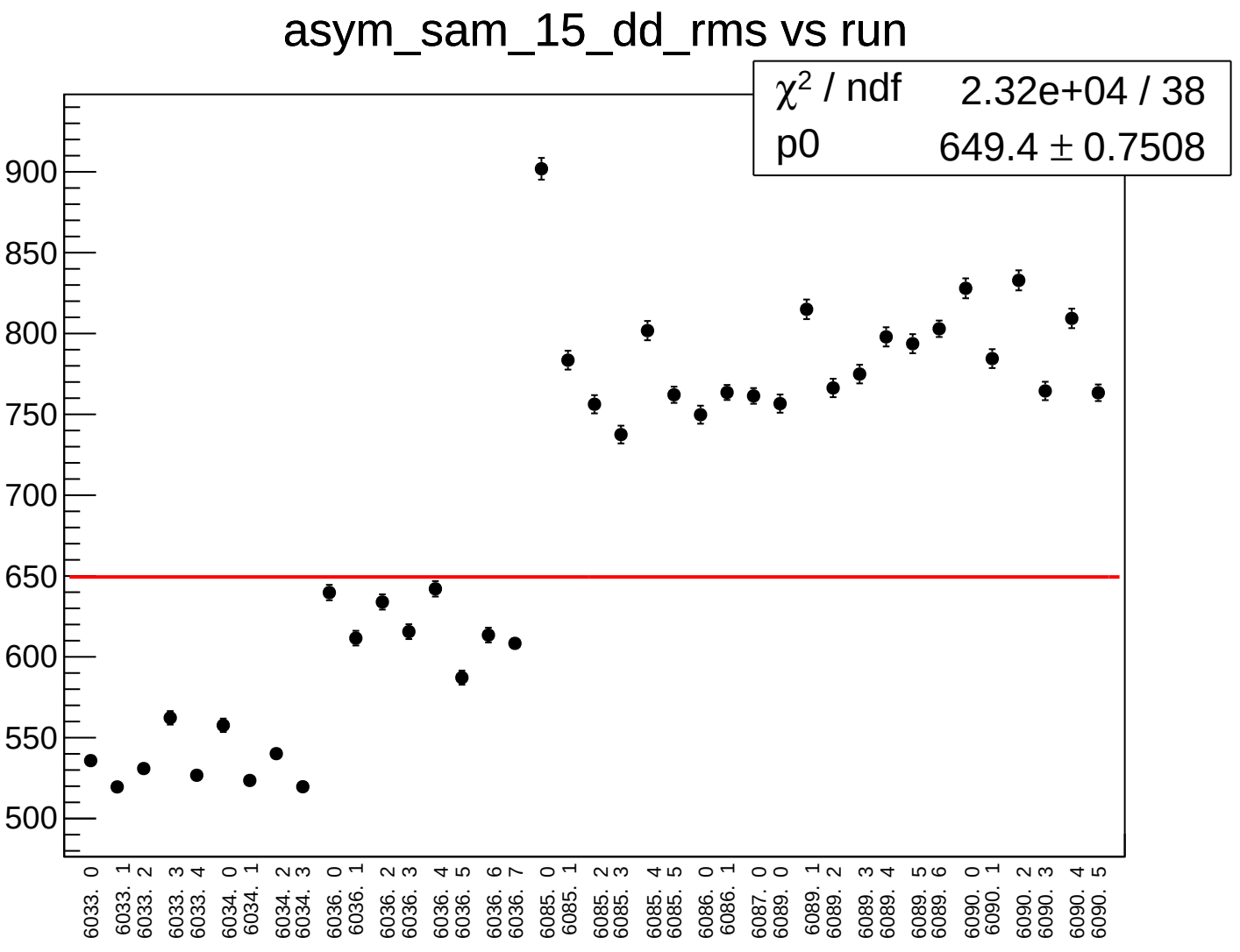

pull1D
Entries 39
Mean 0.01452
Std Dev 0.7663
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

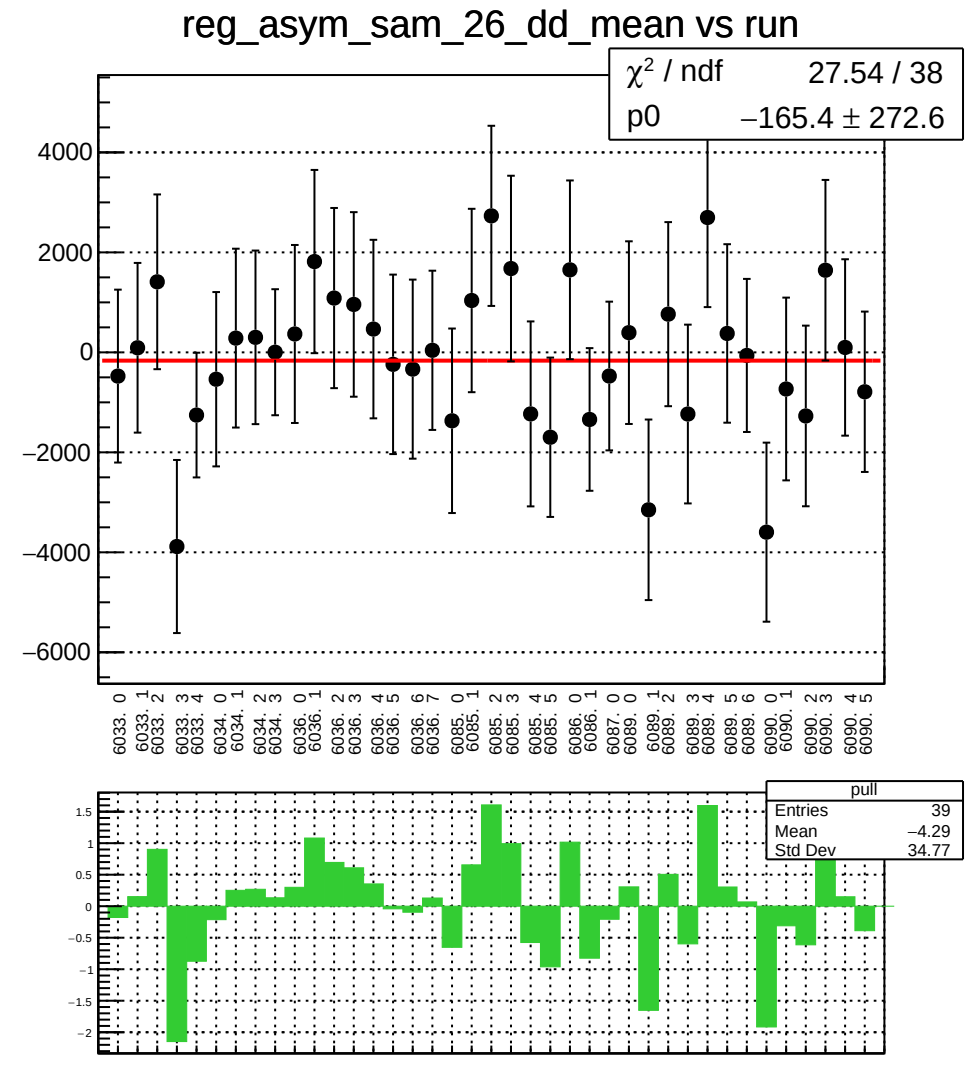

reg_asym_sam_15_dd_rms vs run
χ² / ndf 388.4 / 38
p0 81.76 ± 0.09311
86
84
82
80
78
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

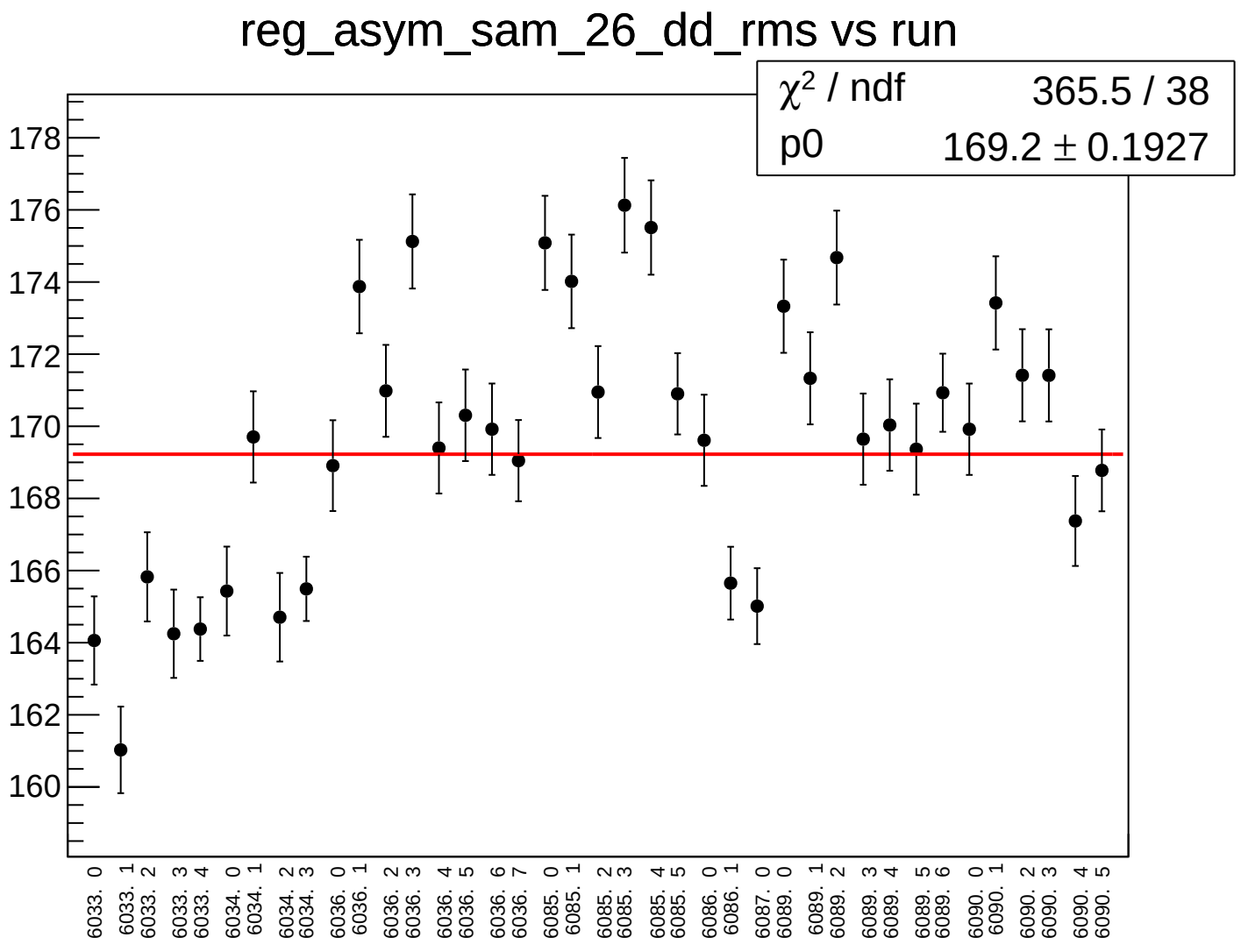

asym_sam_15_dd_correction_mean vs run
χ² / ndf 46.66 / 38
p0 1968 ± 1053
30000
20000
10000
0
−10000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 43.14
Std Dev 12.72
pull1D
Entries 39
Mean 0.04048
Std Dev 1.093

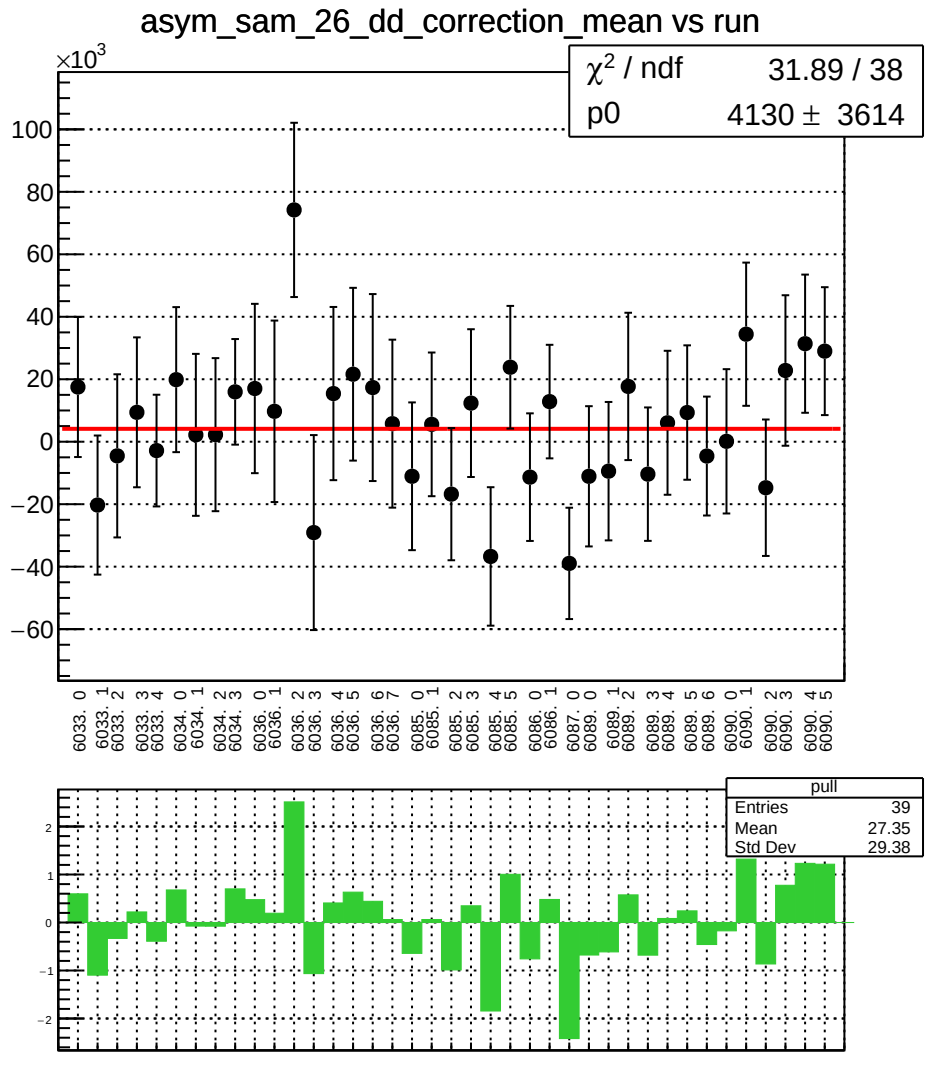

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.388e+04 / 38
p0 643.6 ± 0.7444
900
850
800
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

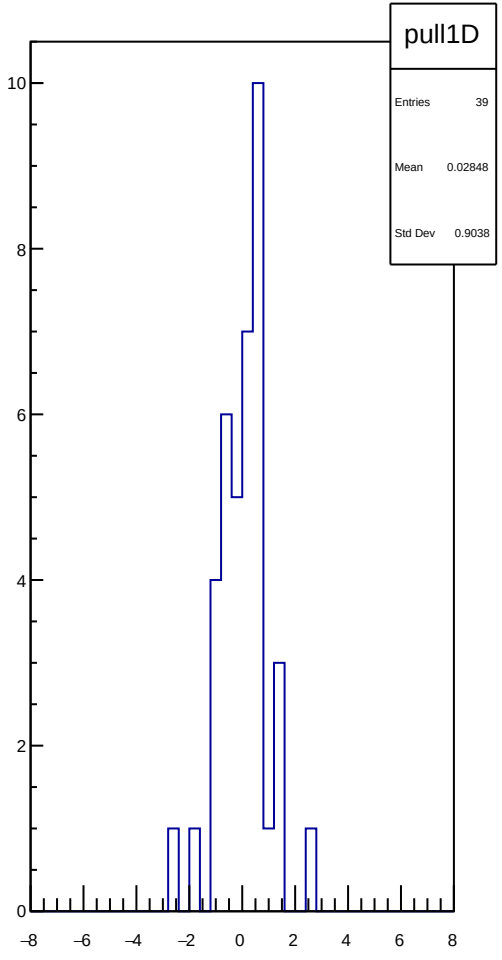

asym_sam_15_dd_mean vs run
χ² / ndf 44.33 / 38
p0 −1971 ± 1062
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 43.81
Std Dev 10.02
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.03743
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

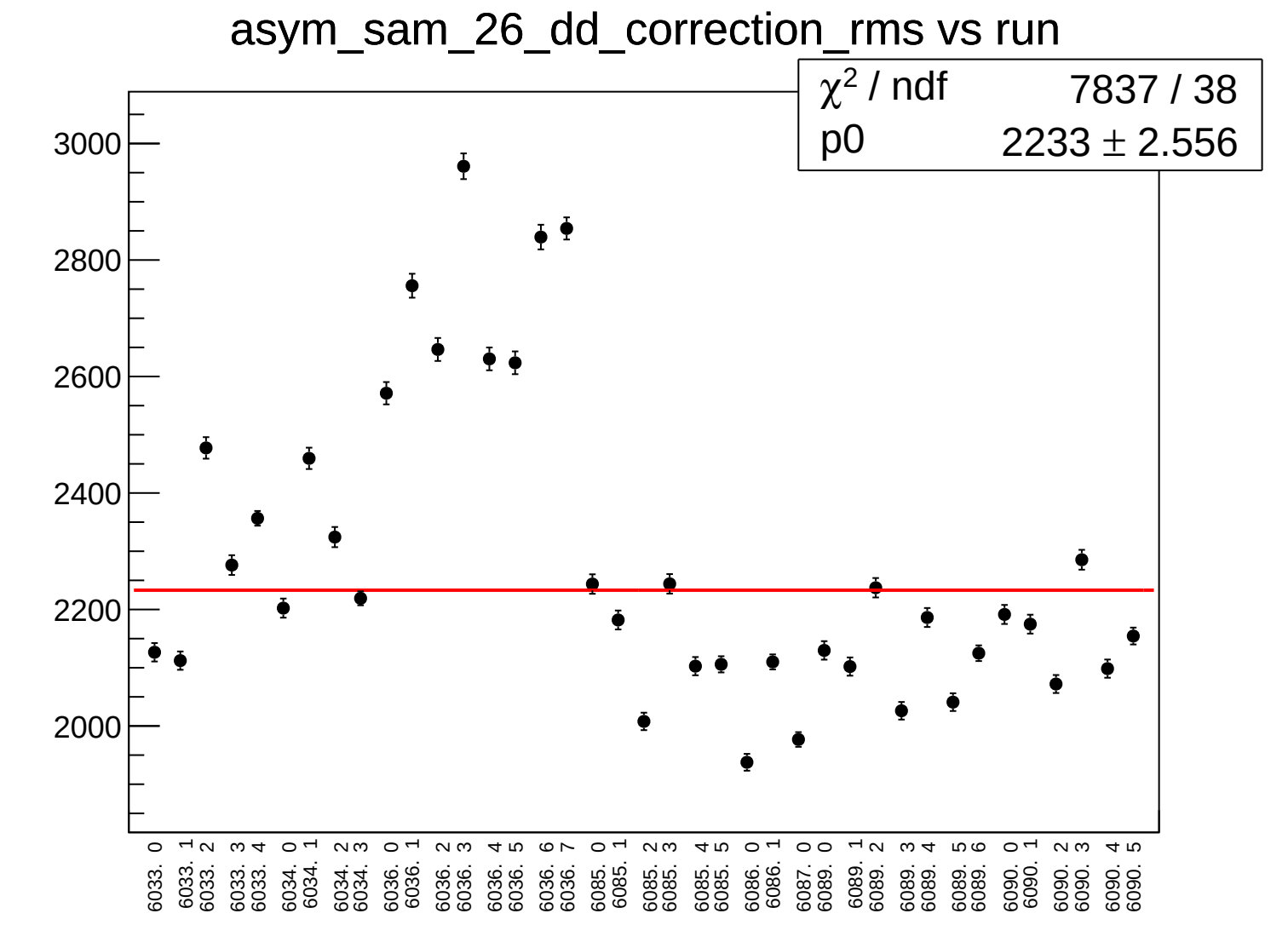

asym_sam_15_dd_rms vs run
χ² / ndf 2.32e+04 / 38
p0 649.4 ± 0.7508
900
850
800
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

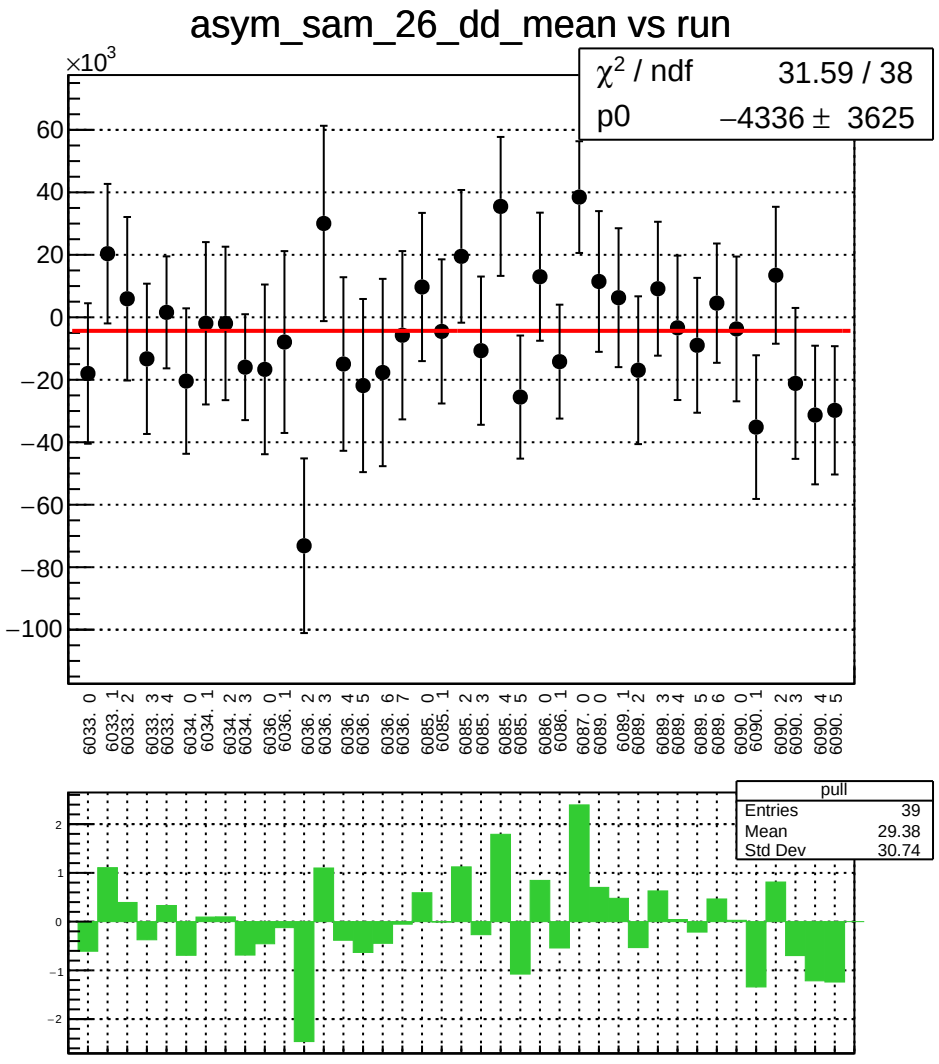

reg_asym_sam_26_dd_mean vs run
χ² / ndf 27.54 / 38
p0 −165.4 ± 272.6
4000
2000
0
−2000
−4000
−6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −4.29
Std Dev 34.77
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02122
Std Dev 0.8401
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

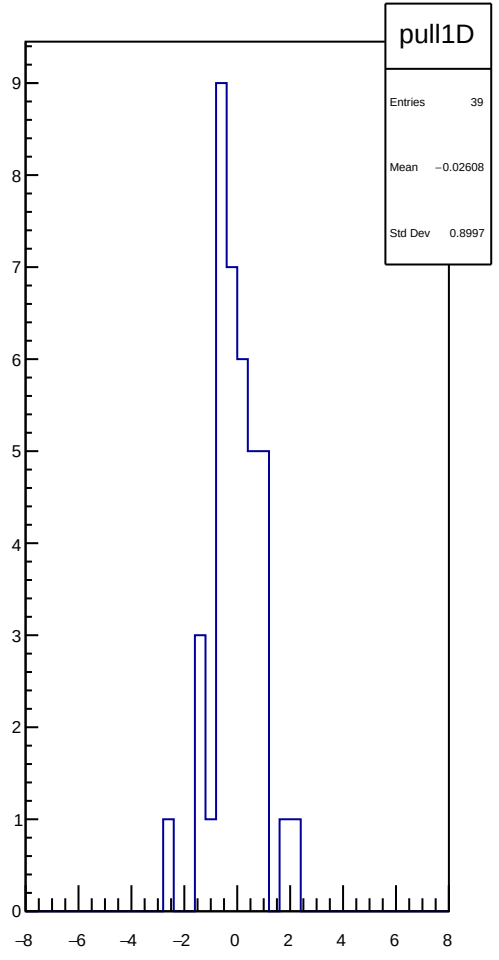

reg_asym_sam_26_dd_rms vs run
χ² / ndf 365.5 / 38
p0 169.2 ± 0.1927
178
176
174
172
170
168
166
164
162
160
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

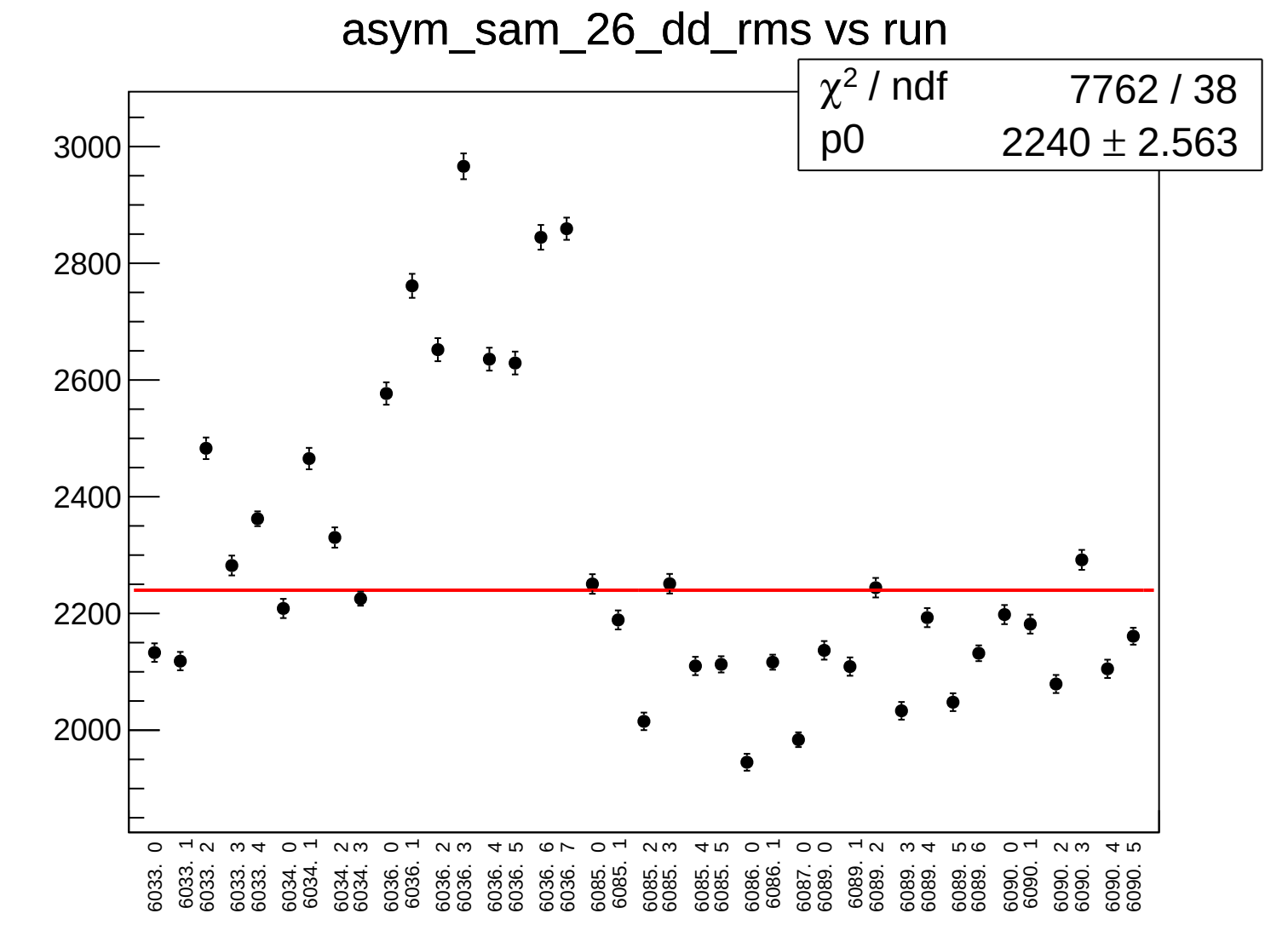

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 31.89 / 38
p0 4130 ± 3614
100
80
60
40
20
0
−20
−40
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 27.35
Std Dev 29.38
2
1
0
−1
−2

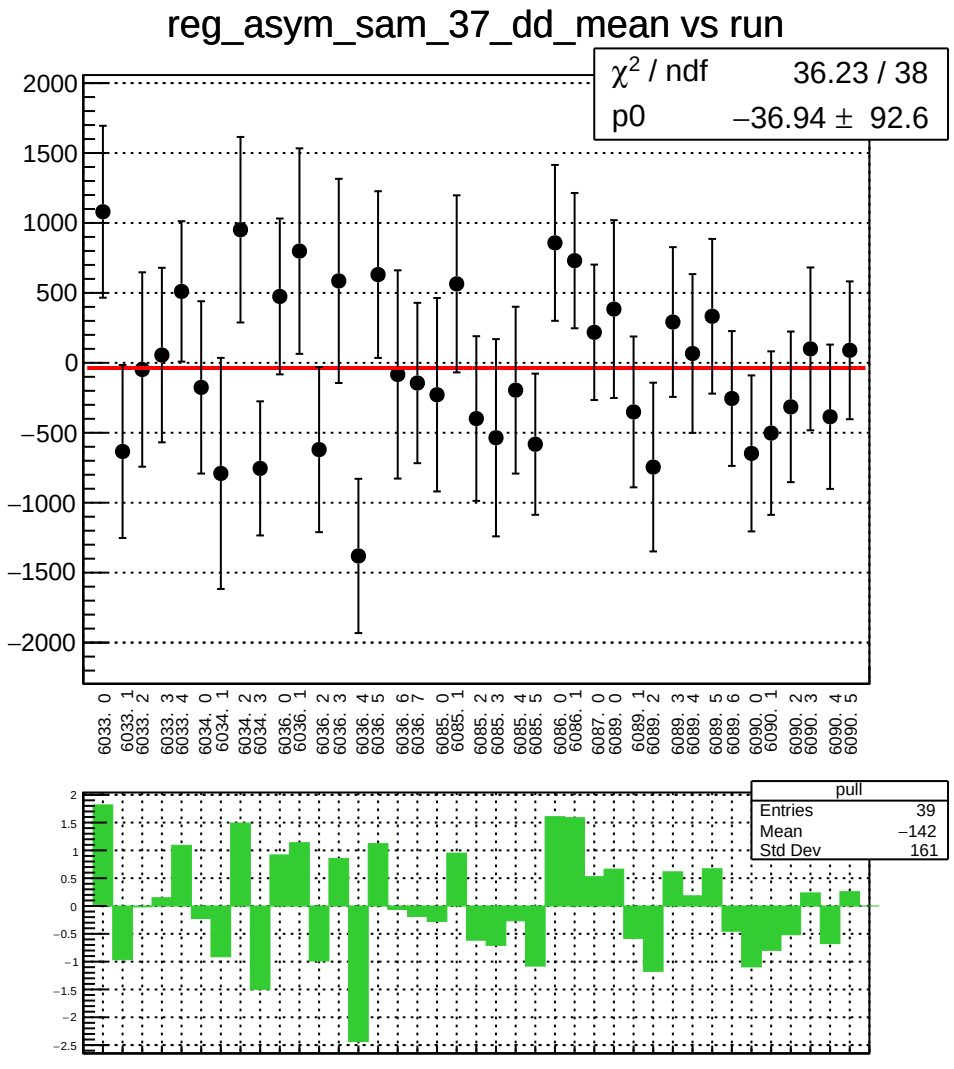

pull1D
Entries 39
Mean 0.02848
Std Dev 0.9038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

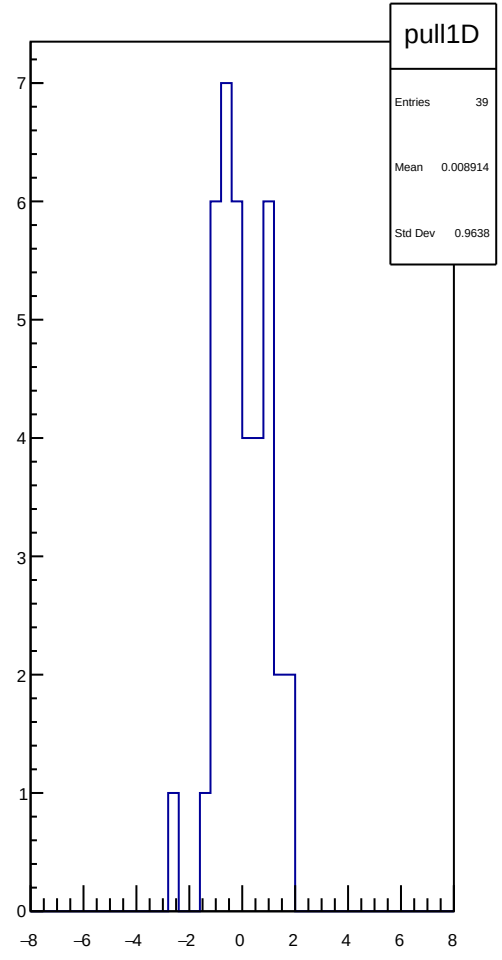

asym_sam_26_dd_correction_rms vs run
χ² / ndf 7837 / 38
p0 2233 ± 2.556
3000
2800
2600
2400
2200
2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

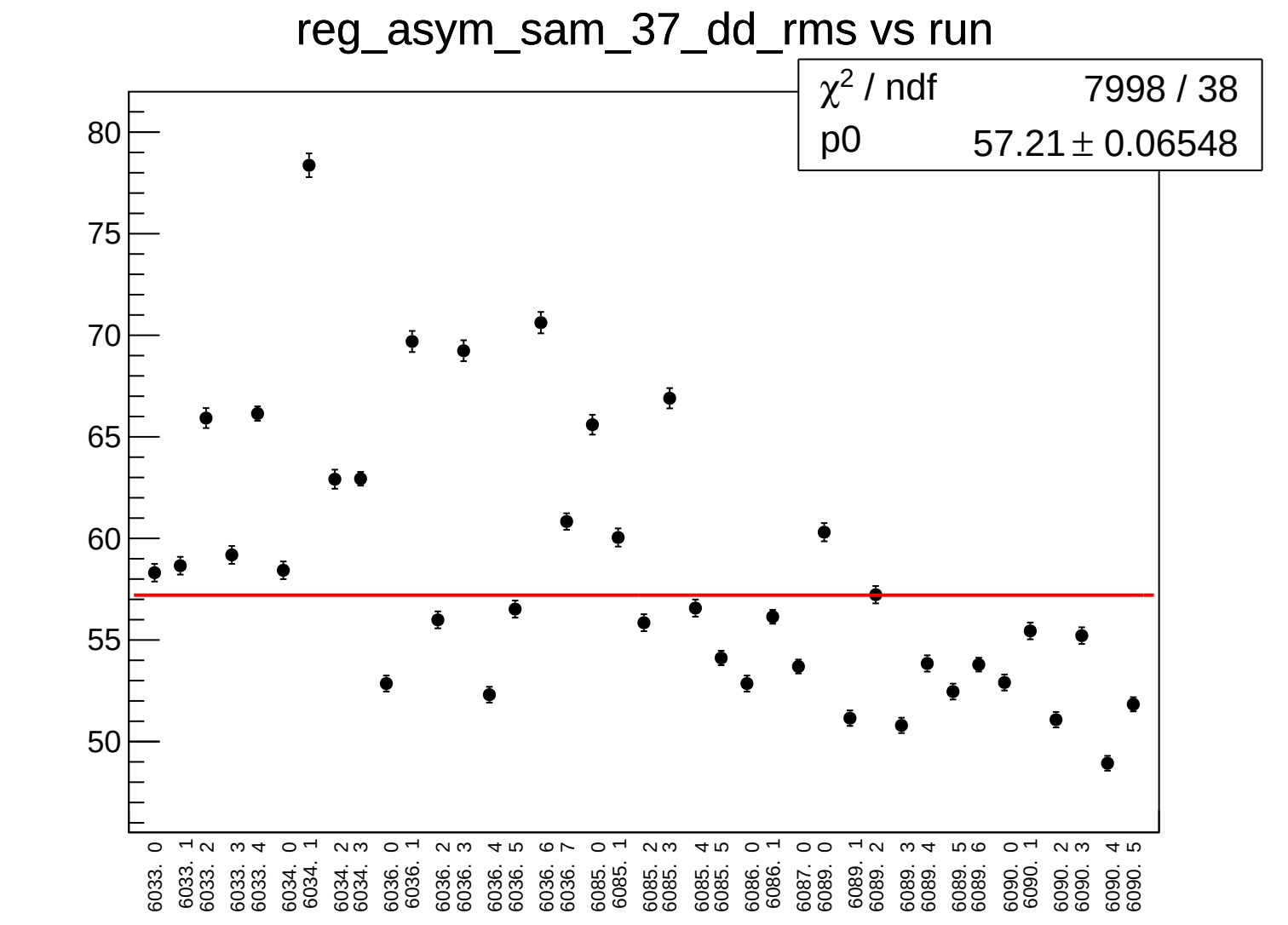

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 31.59 / 38
p0 −4336 ± 3625
60
40
20
0
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 29.38
Std Dev 30.74
2
1
0
−1
−2

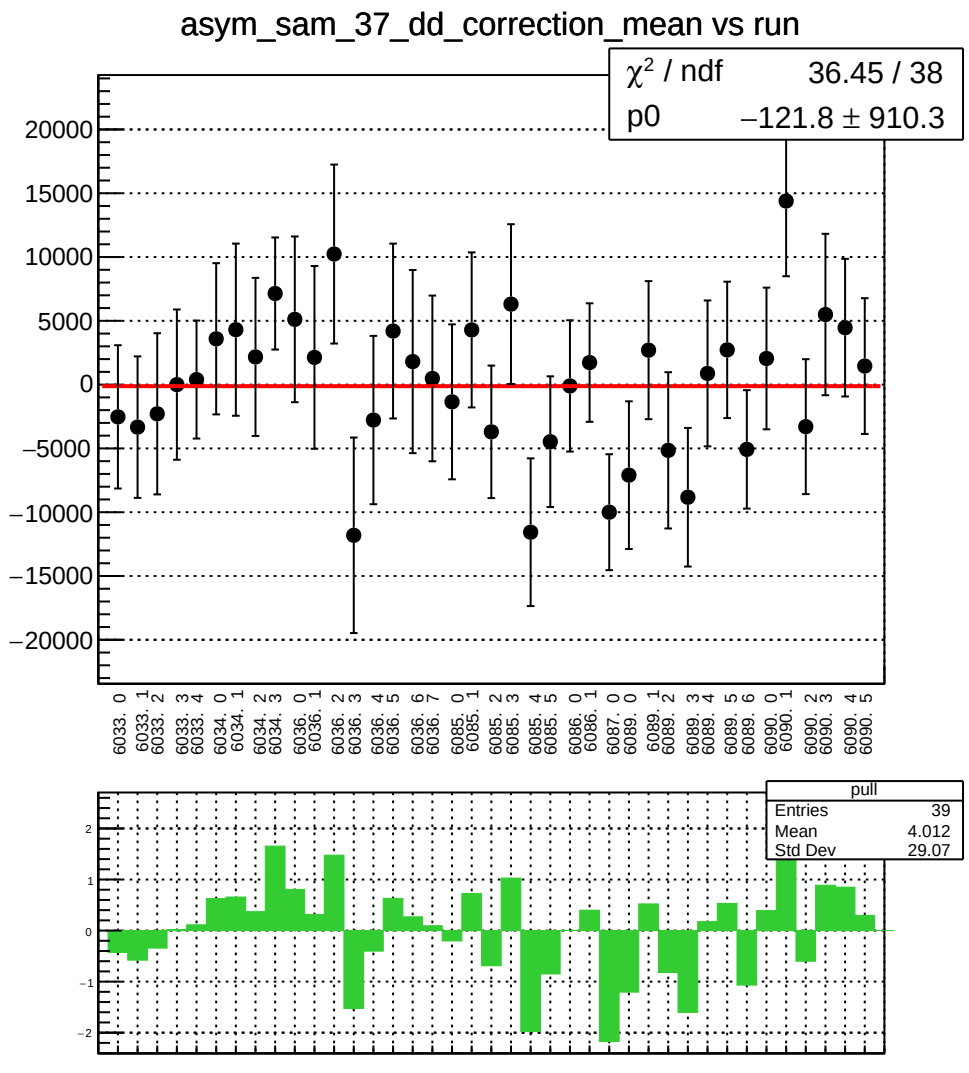

pull1D
Entries 39
Mean −0.02608
Std Dev 0.8997
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

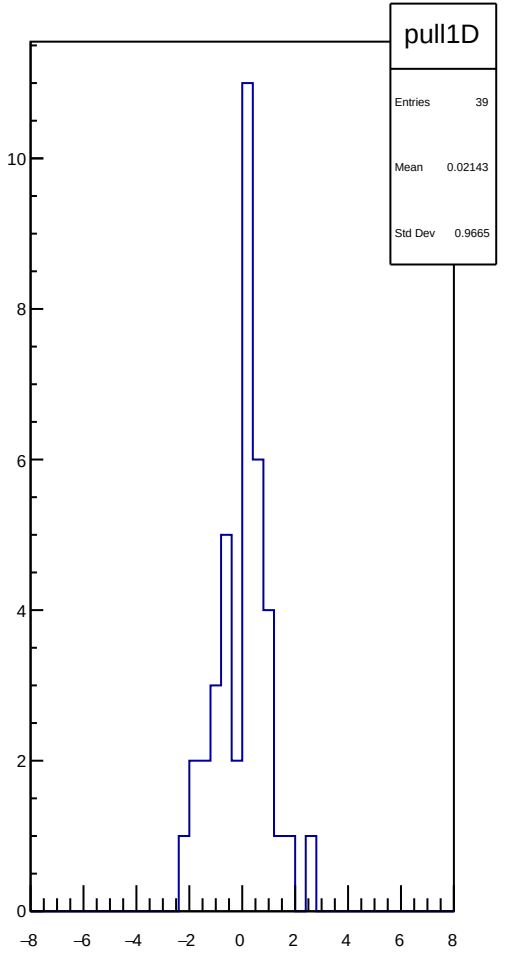

asym_sam_26_dd_rms vs run
χ² / ndf 7762 / 38
p0 2240 ± 2.563
3000
2800
2600
2400
2200
2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

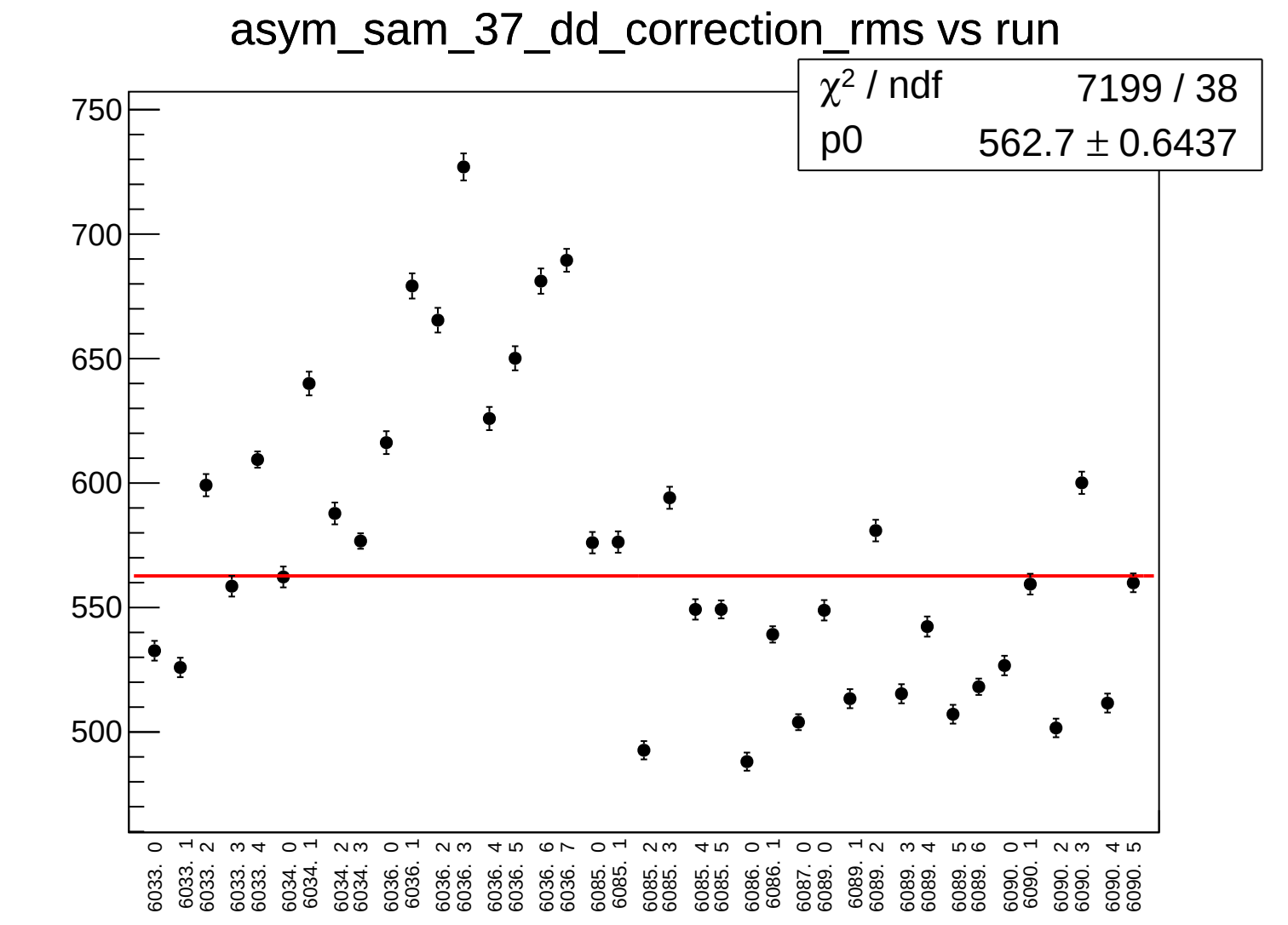

reg_asym_sam_37_dd_mean vs run
χ² / ndf 36.23 / 38
p0 −36.94 ± 92.6
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −142
Std Dev 161
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

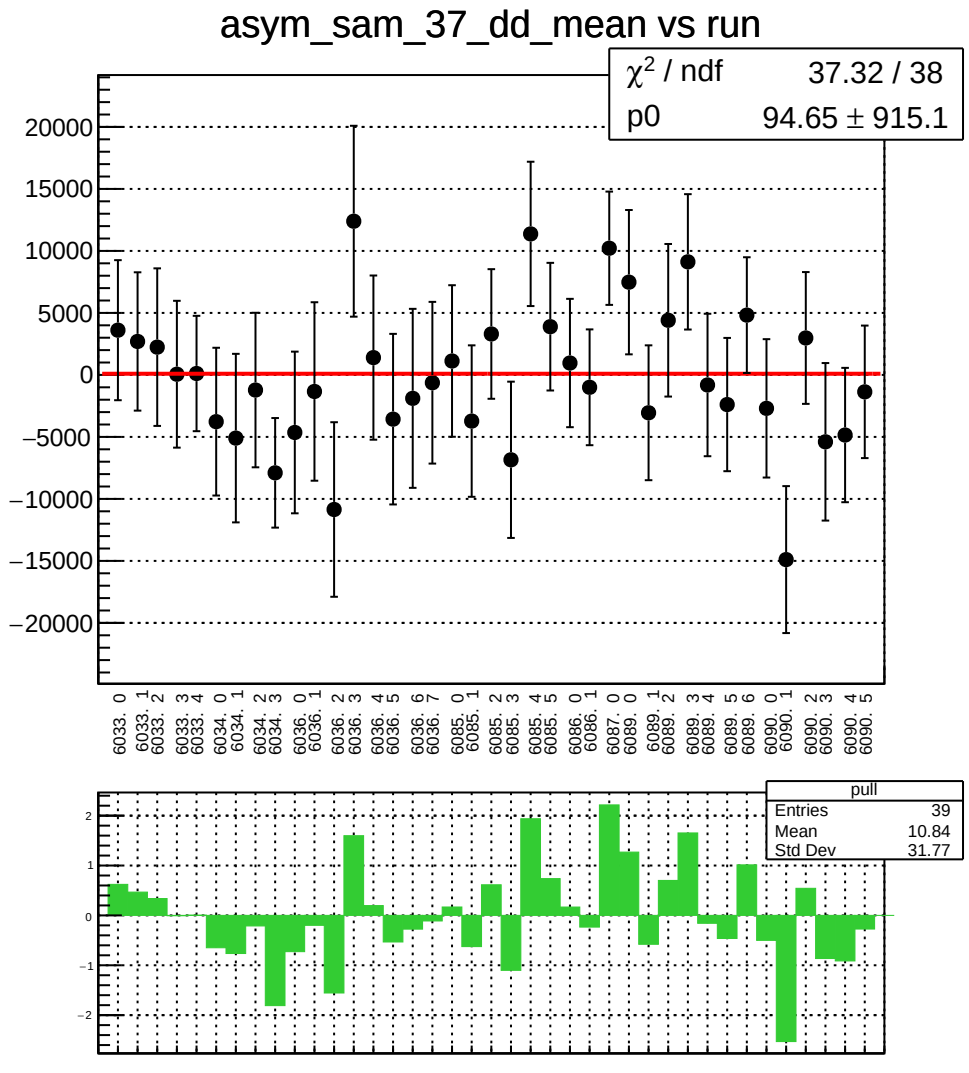

pull1D
Entries 39
Mean 0.008914
Std Dev 0.9638
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

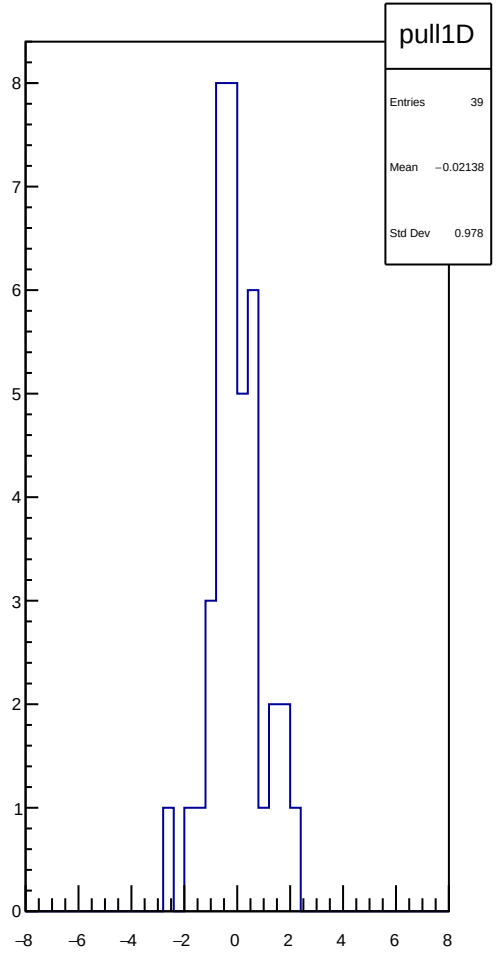

reg_asym_sam_37_dd_rms vs run
χ² / ndf 7998 / 38
p0 57.21 ± 0.06548
80
75
70
65
60
55
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

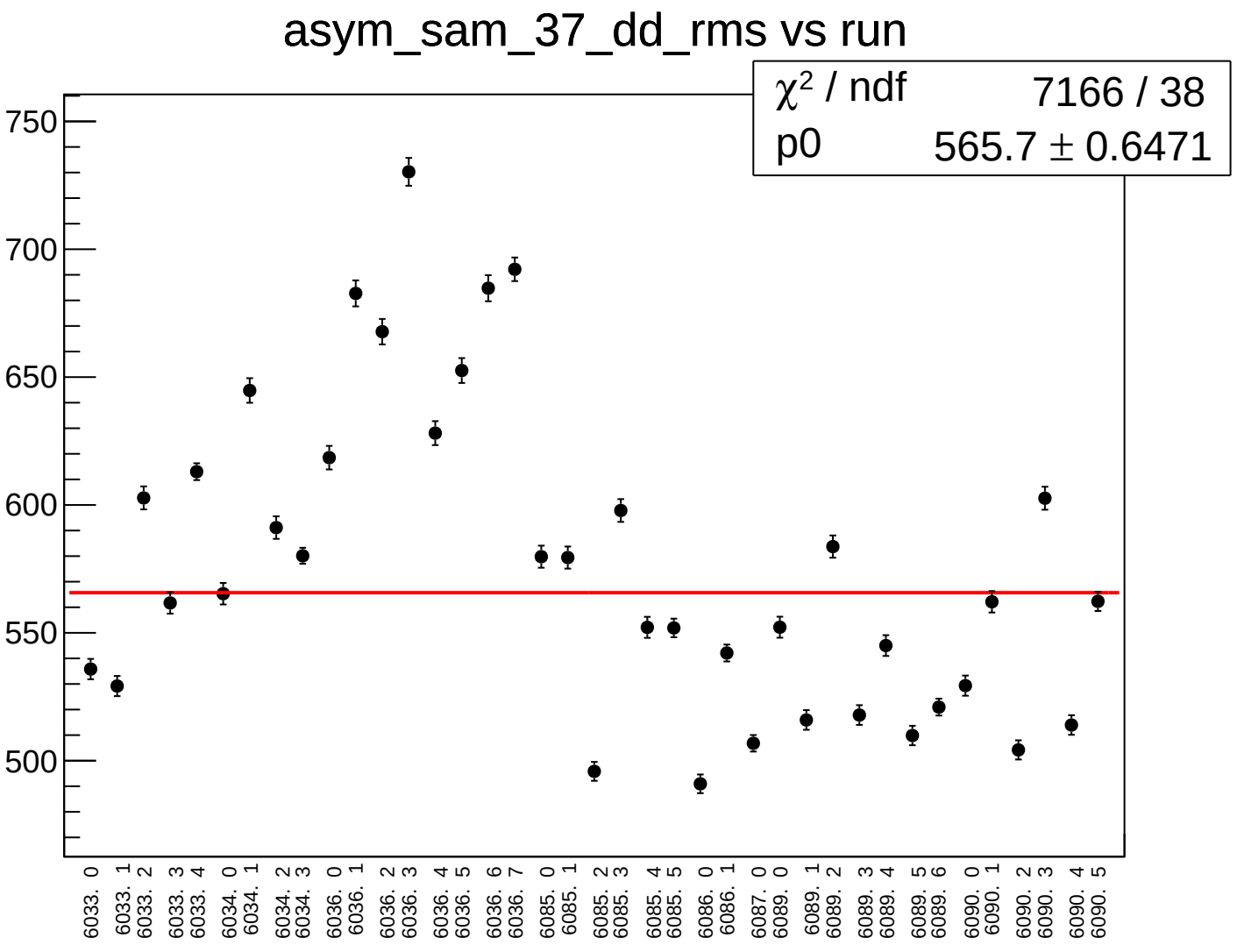

asym_sam_37_dd_correction_mean vs run
χ² / ndf 36.45 / 38
p0 −121.8 ± 910.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 4.012
Std Dev 29.07
2
1
0
−1
−2

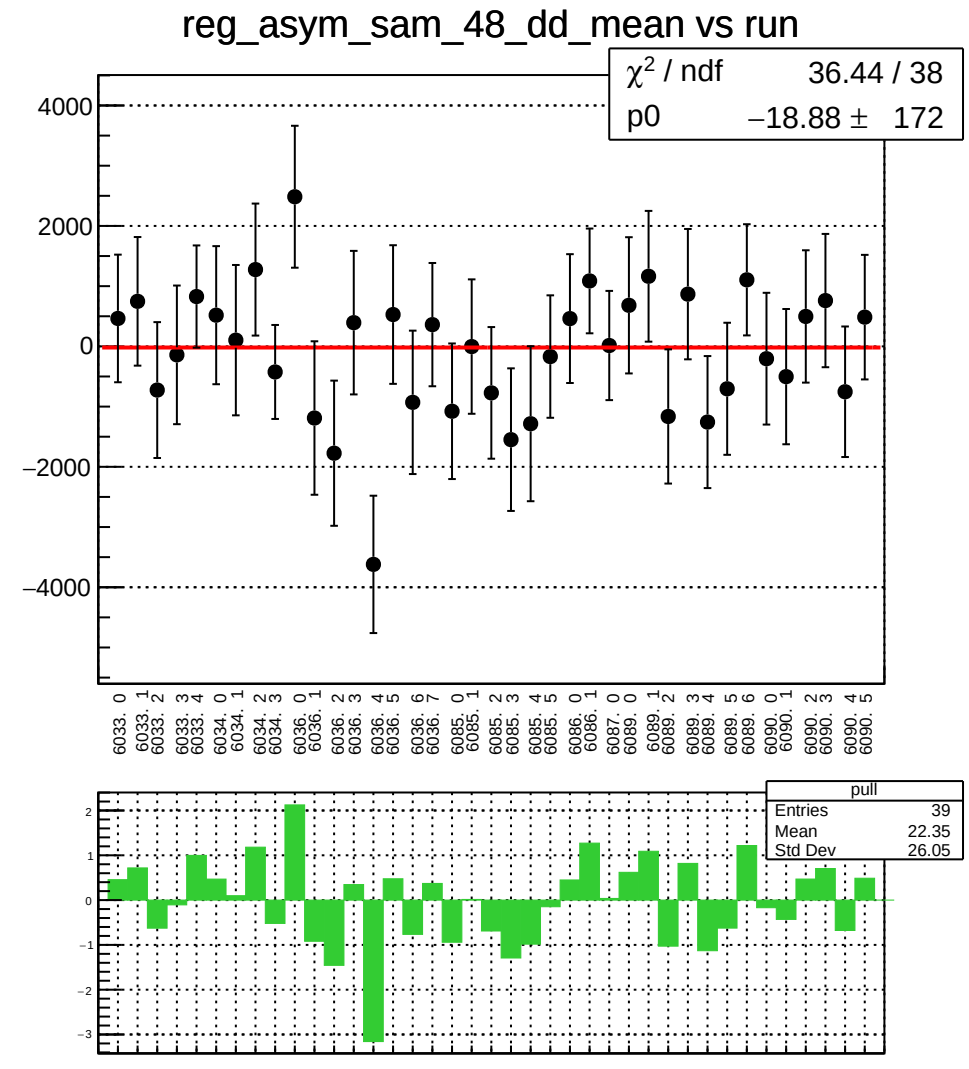

pull1D
Entries 39
Mean 0.02143
Std Dev 0.9665
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

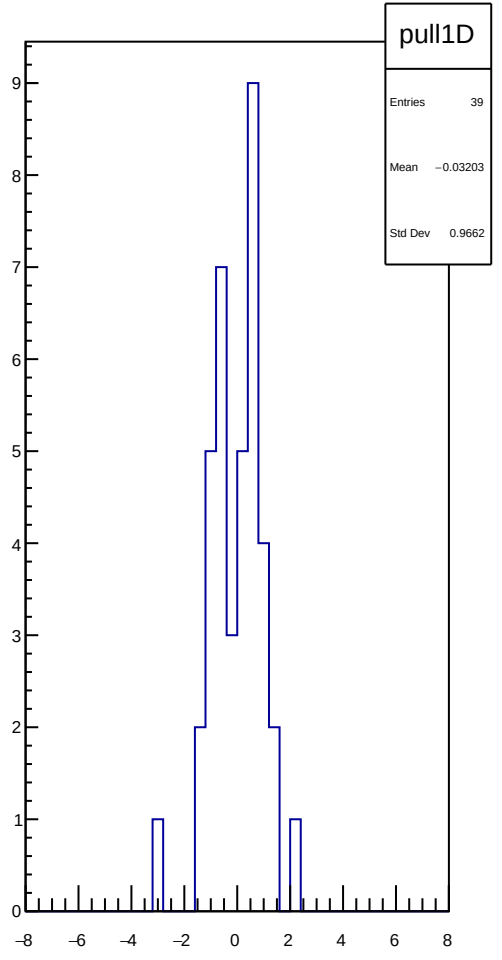

asym_sam_37_dd_correction_rms vs run
χ² / ndf 7199 / 38
p0 562.7 ± 0.6437
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

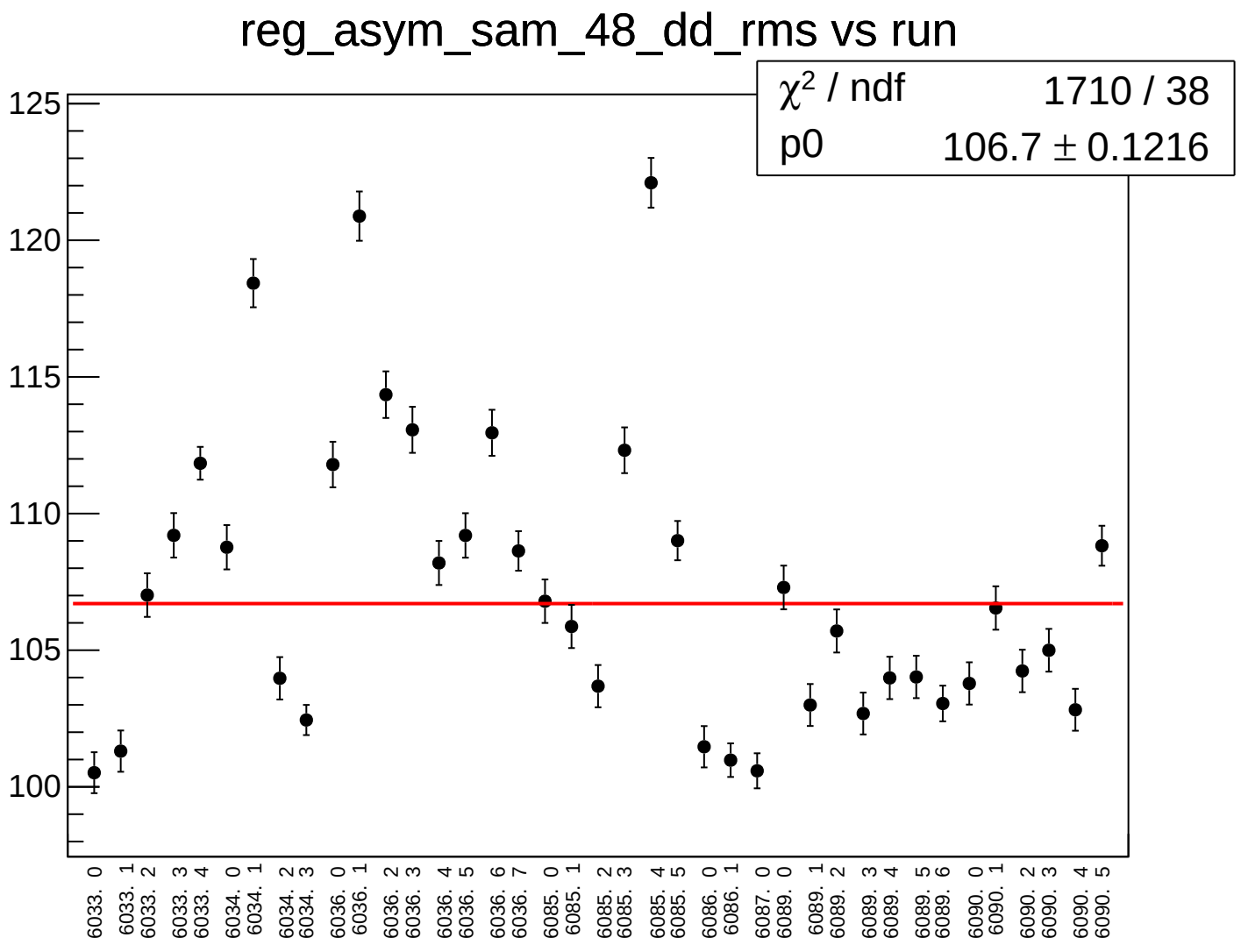

asym_sam_37_dd_mean vs run
χ² / ndf 37.32 / 38
p0 94.65 ± 915.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 10.84
Std Dev 31.77
2
1
0
−1
−2

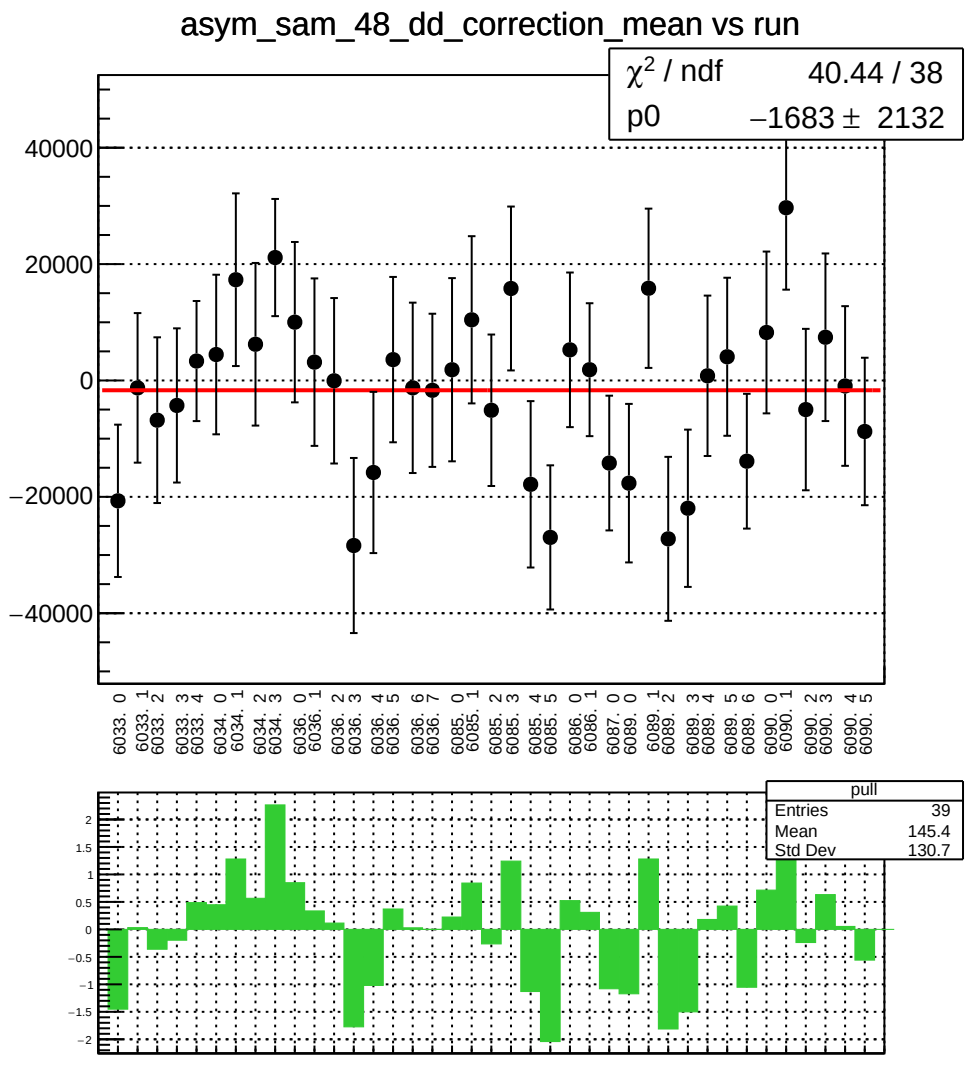

pull1D
Entries 39
Mean −0.02138
Std Dev 0.978
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

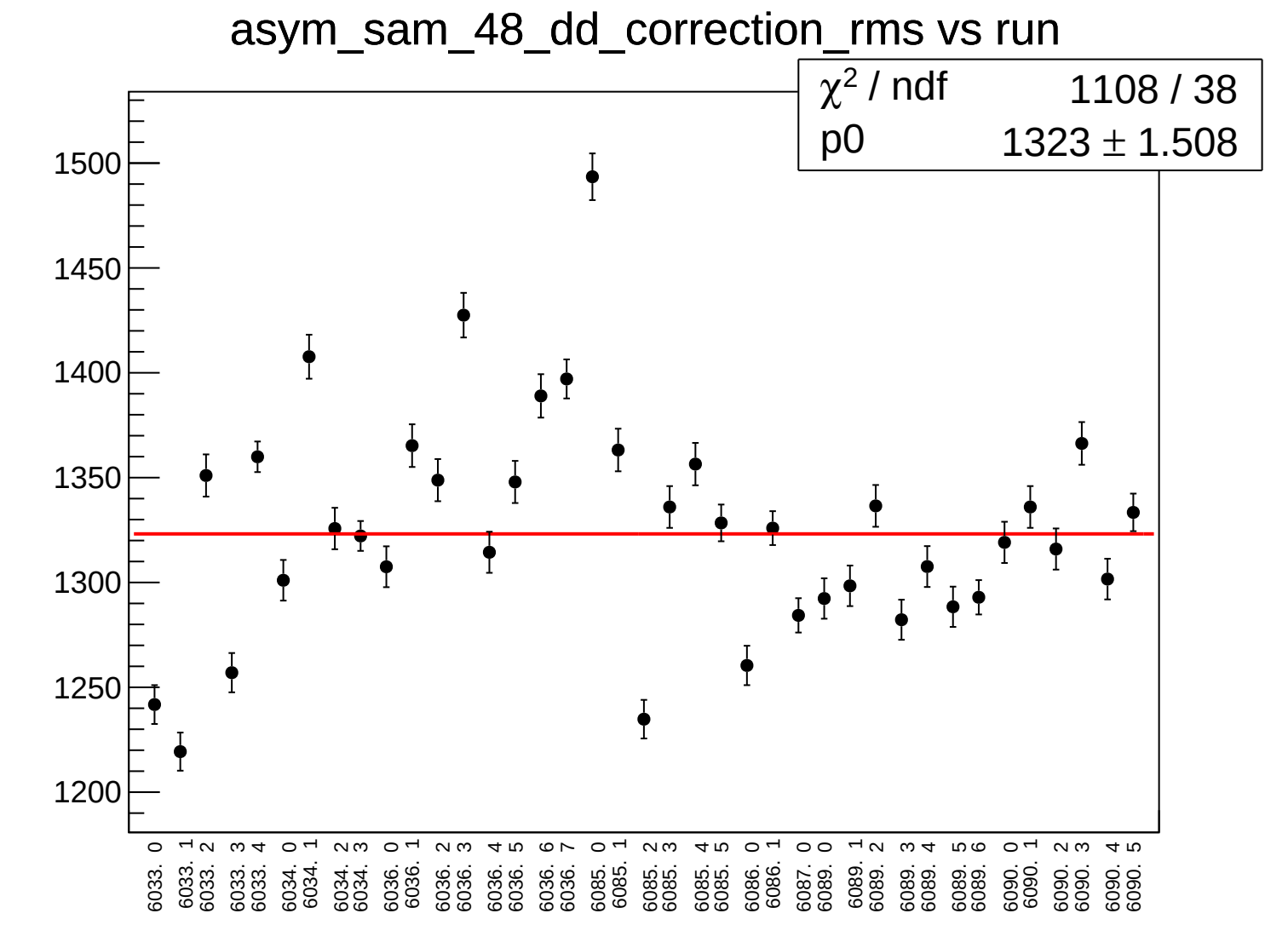

asym_sam_37_dd_rms vs run
χ² / ndf 7166 / 38
p0 565.7 ± 0.6471
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

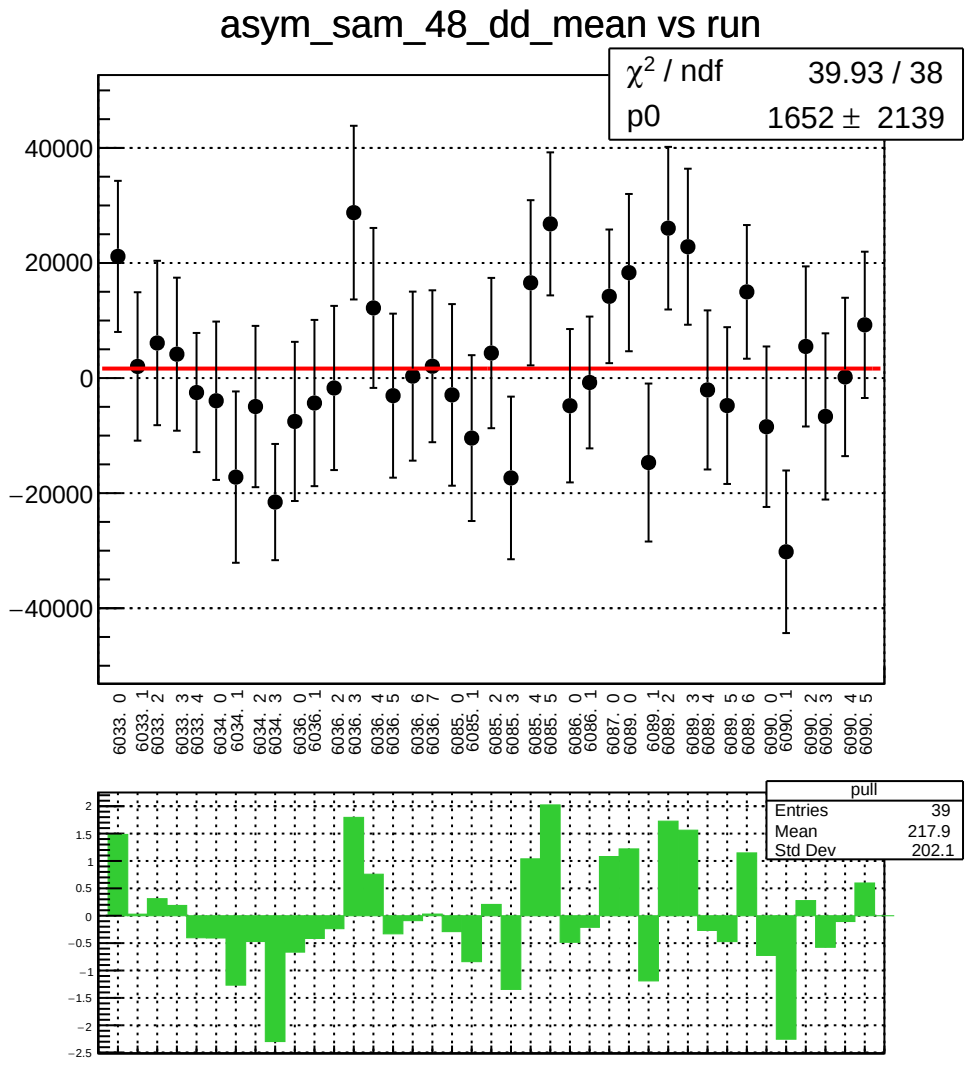

reg_asym_sam_48_dd_mean vs run
χ² / ndf 36.44 / 38
p0 −18.88 ± 172
4000
2000
0
−2000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 22.35
Std Dev 26.05
2
1
0
−1
−2
−3

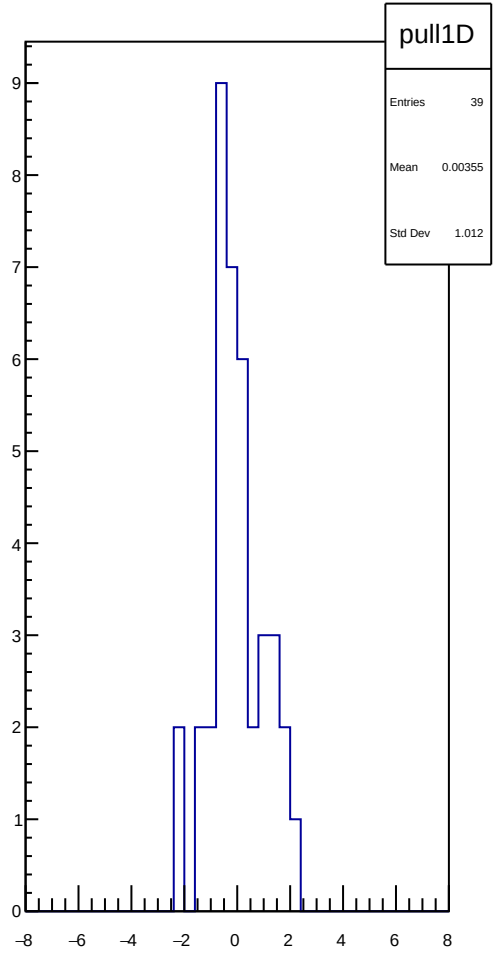

pull1D
Entries 39
Mean −0.03203
Std Dev 0.9662
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

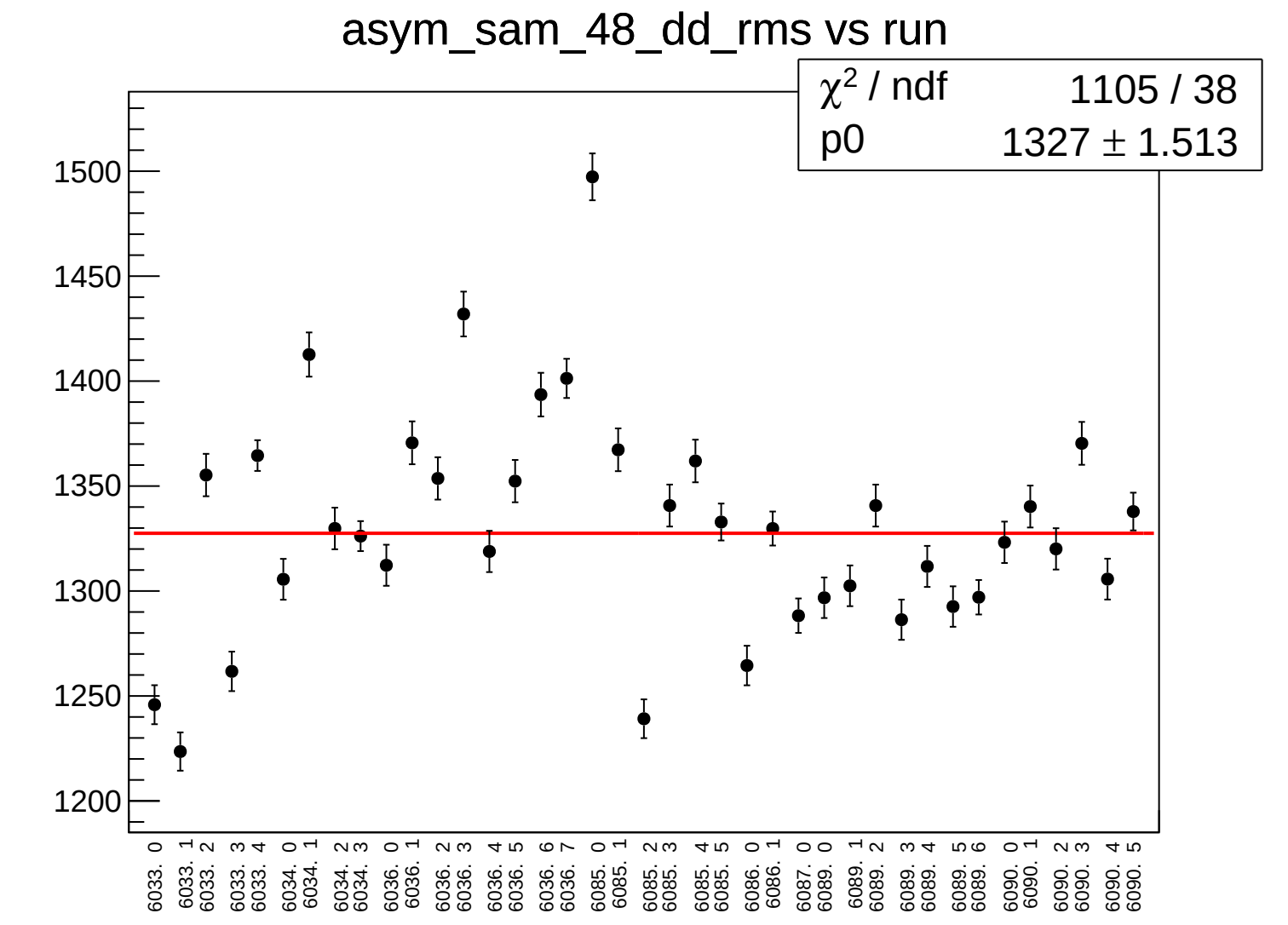

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1710 / 38
p0 106.7 ± 0.1216
125
120
115
110
105
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

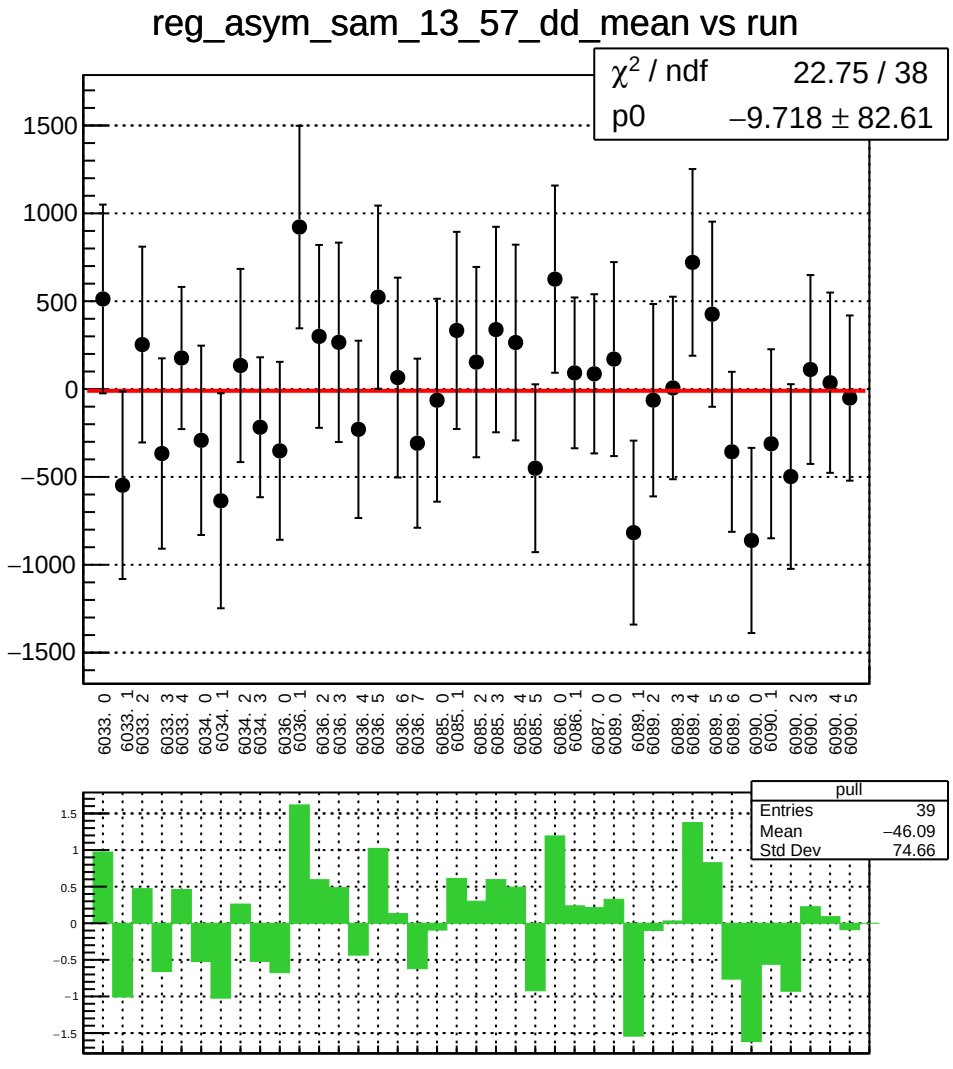

asym_sam_48_dd_correction_mean vs run
χ² / ndf 40.44 / 38
p0 −1683 ± 2132
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 145.4
Std Dev 130.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.005695
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

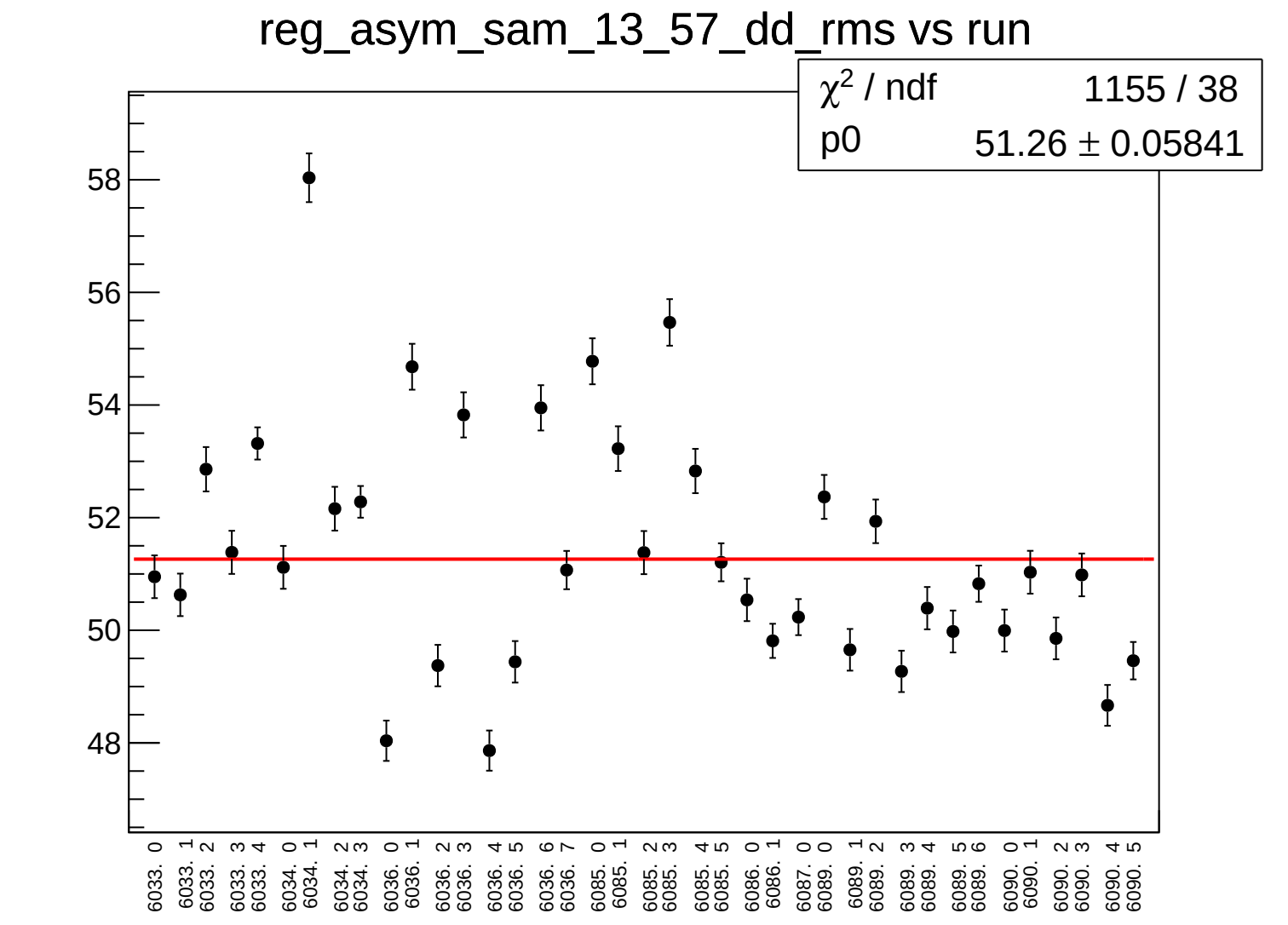

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1108 / 38
p0 1323 ± 1.508
1500
1450
1400
1350
1300
1250
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

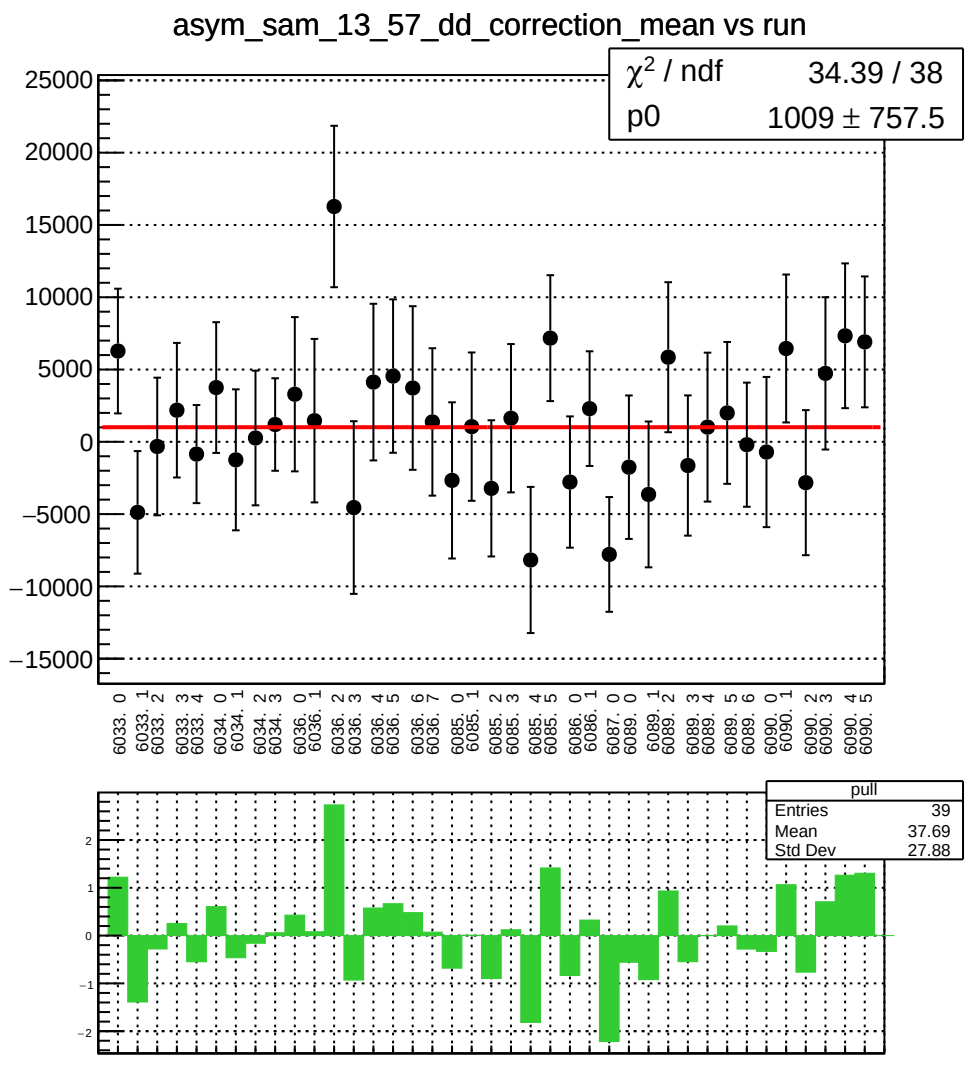

asym_sam_48_dd_mean vs run
χ² / ndf 39.93 / 38
p0 1652 ± 2139
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 217.9
Std Dev 202.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

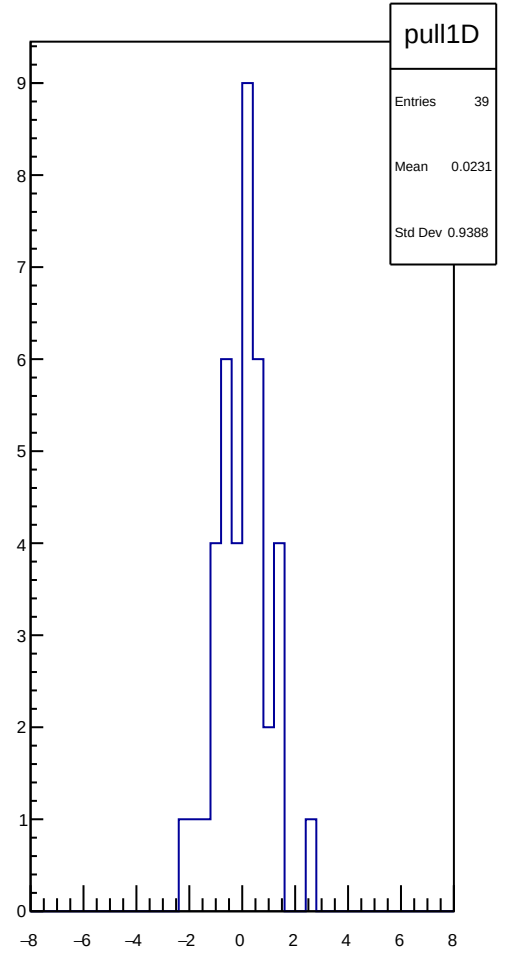

pull1D
Entries 39
Mean 0.00355
Std Dev 1.012
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

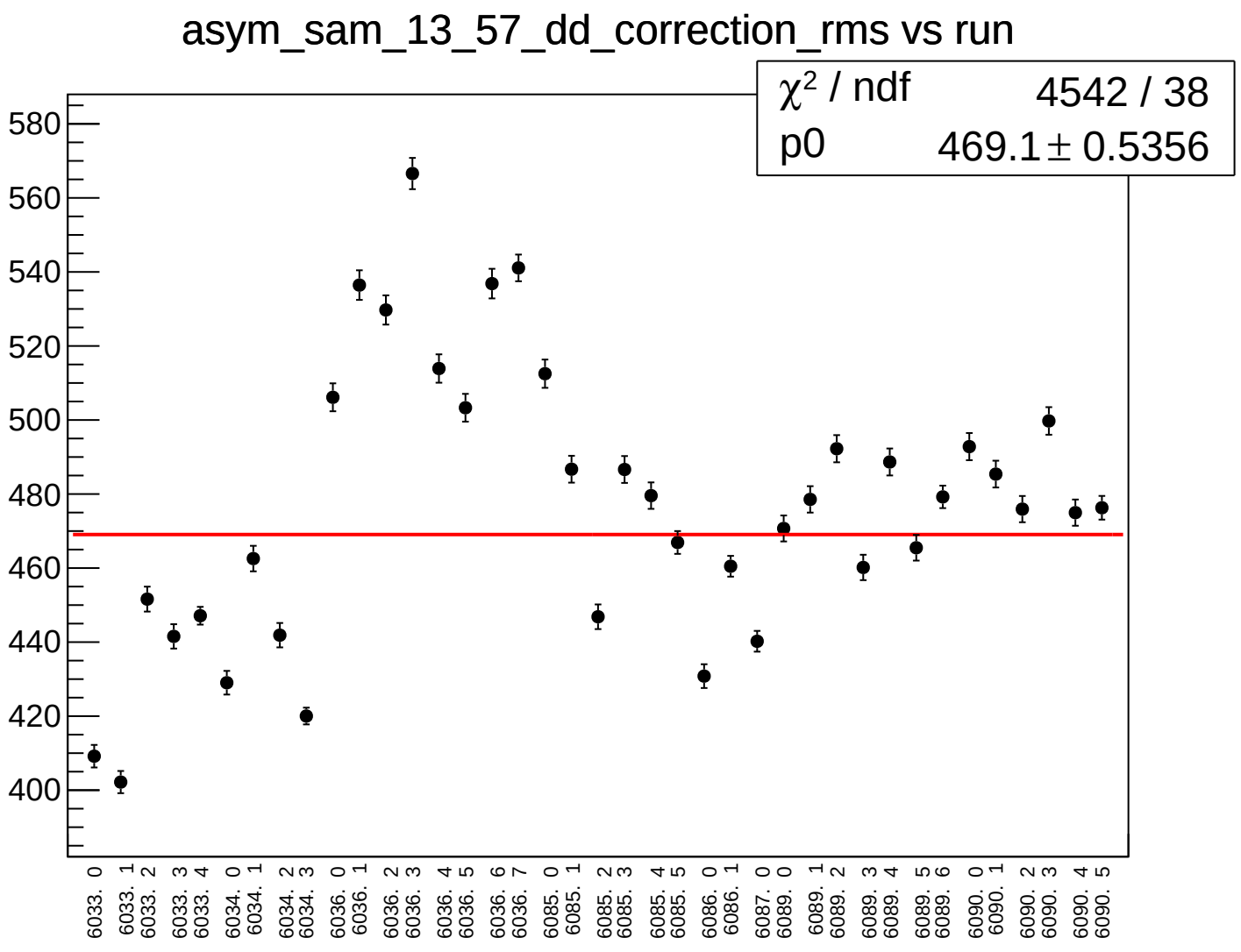

asym_sam_48_dd_rms vs run
χ² / ndf 1105 / 38
p0 1327 ± 1.513
1500
1450
1400
1350
1300
1250
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

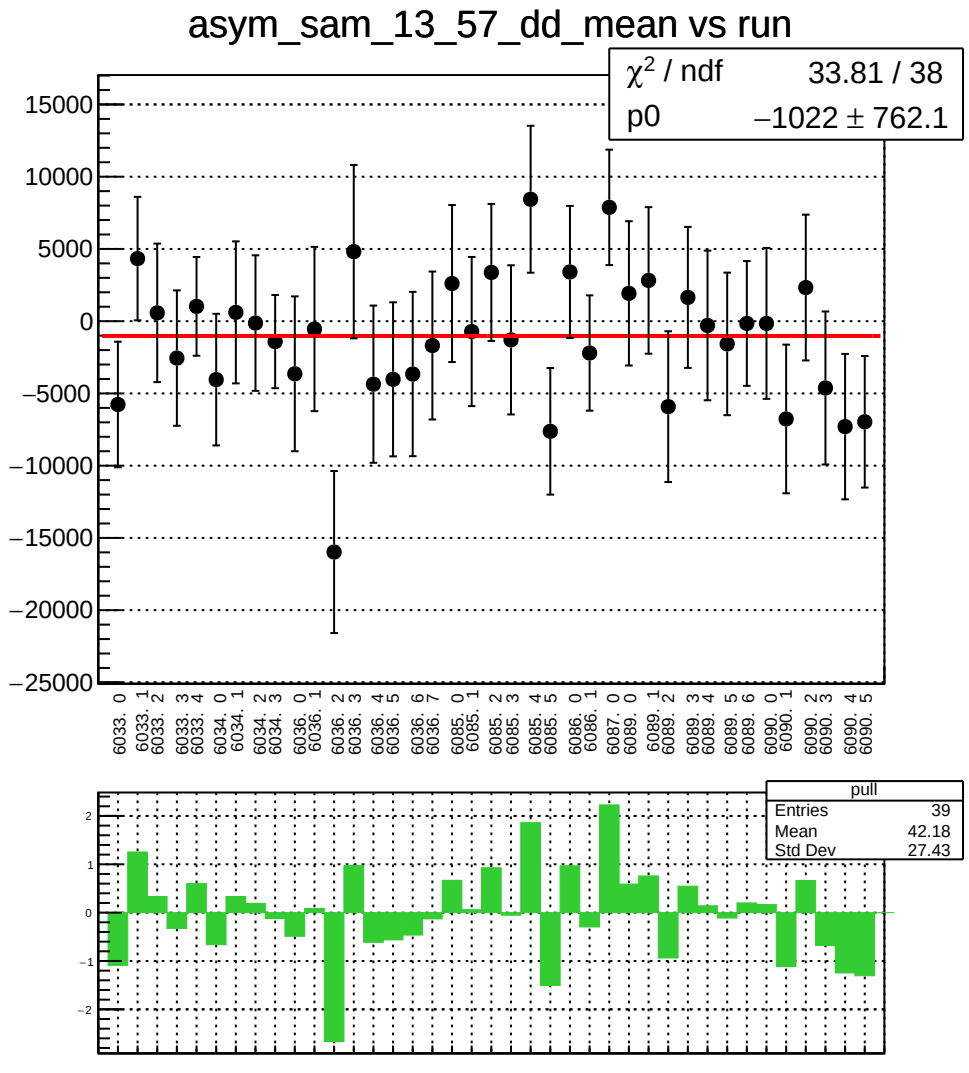

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 22.75 / 38
p0 −9.718 ± 82.61
1500
1000
500
0
−500
−1000
−1500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −46.09
Std Dev 74.66
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.01198
Std Dev 0.7636
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

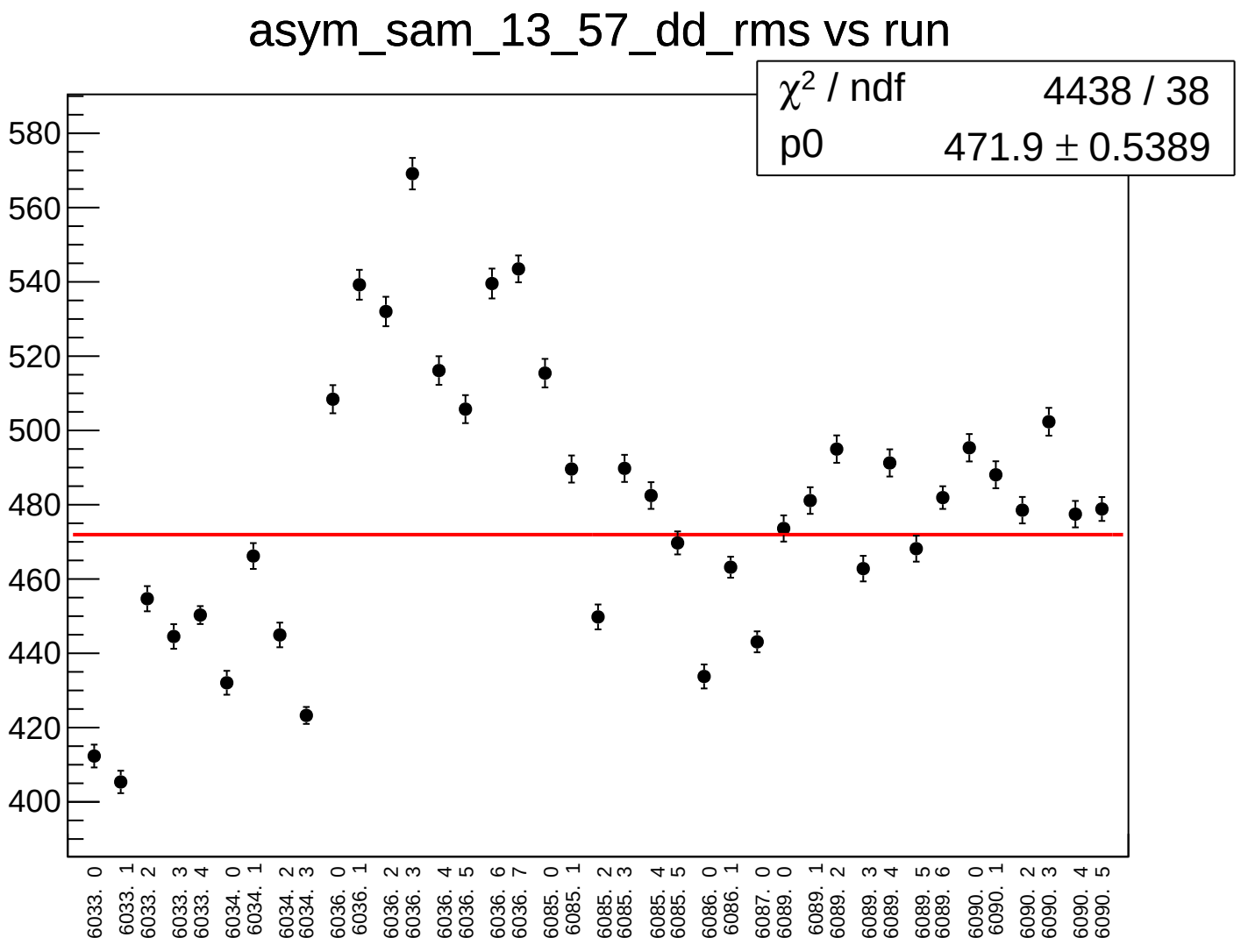

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1155 / 38
p0 51.26 ± 0.05841
58
56
54
52
50
48
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

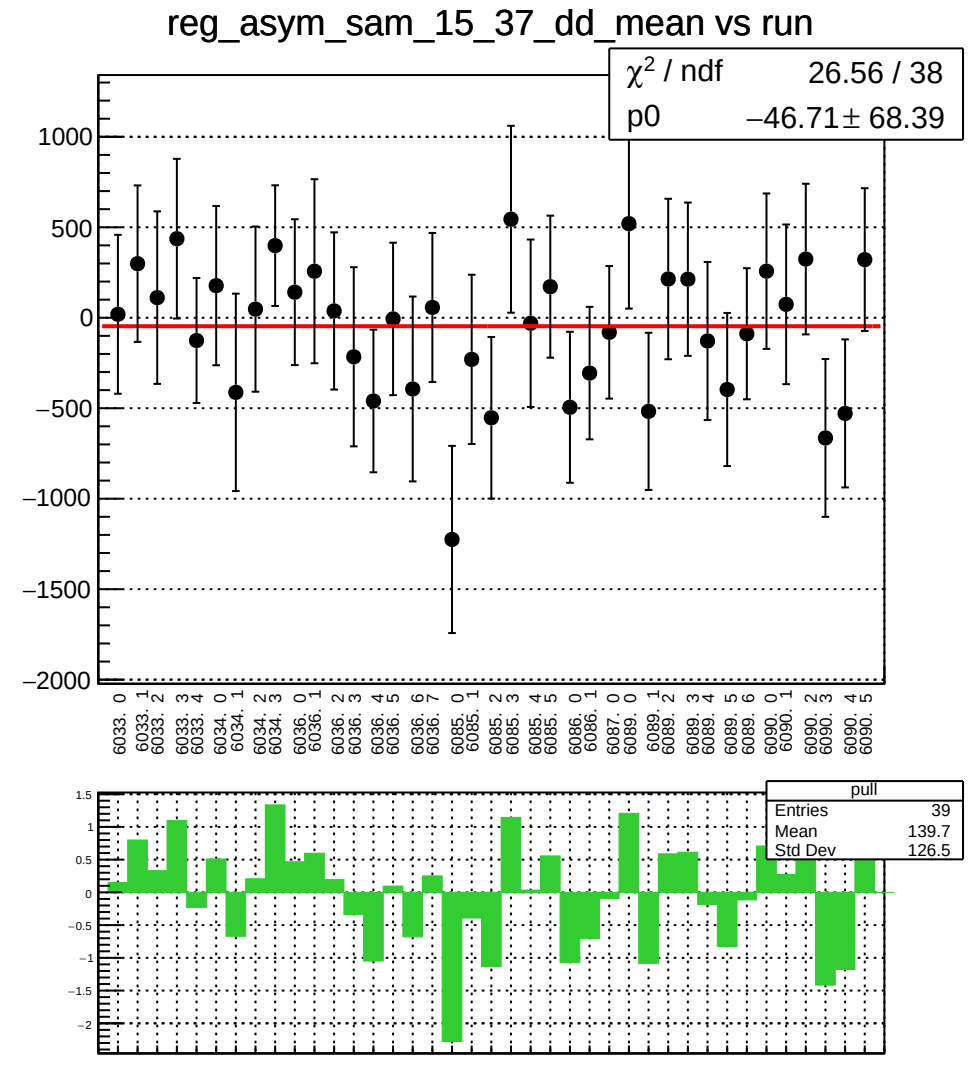

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 34.39 / 38
p0 1009 ± 757.5
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 37.69
Std Dev 27.88
2
1
0
−1
−2

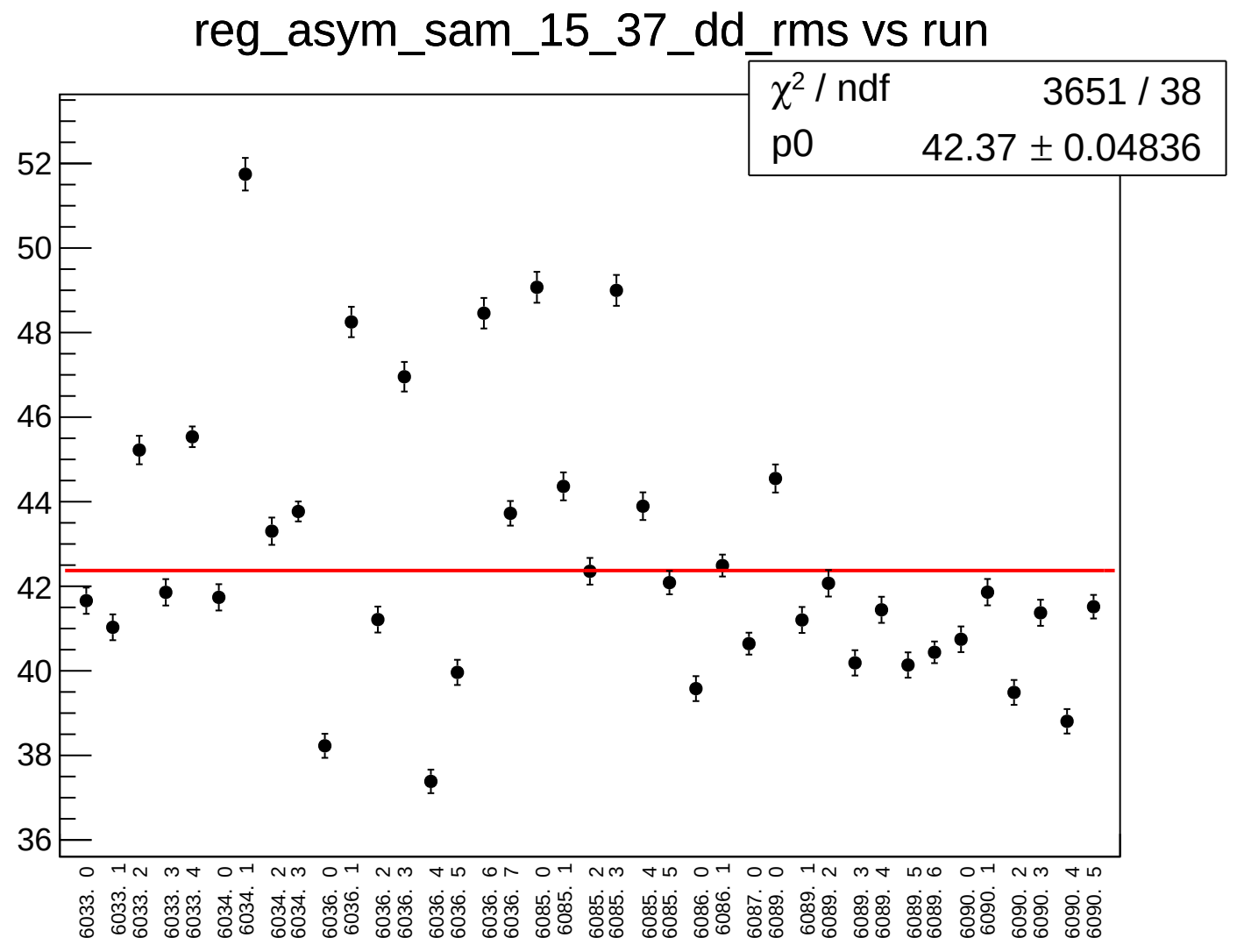

pull1D
Entries 39
Mean 0.0231
Std Dev 0.9388
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

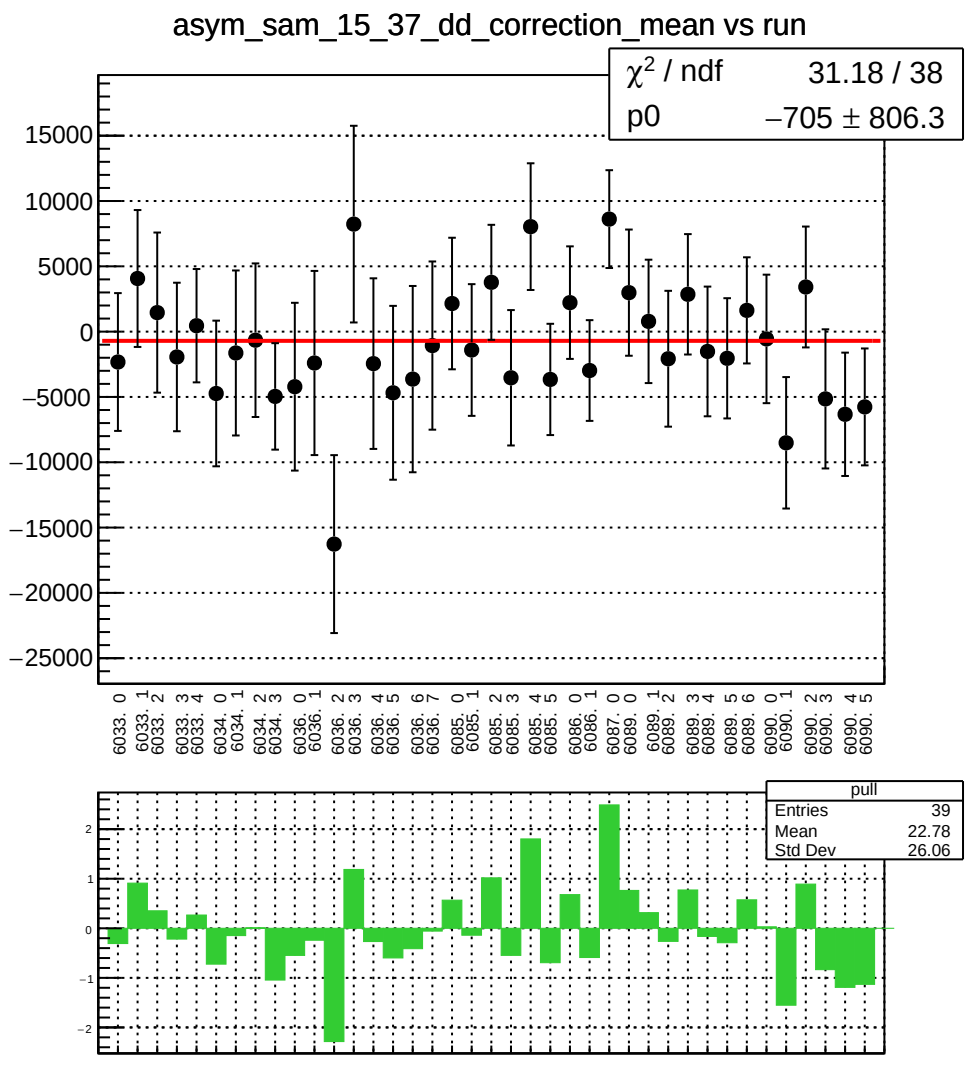

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 4542 / 38
p0 469.1 ± 0.5356
580
560
540
520
500
480
460
440
420
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

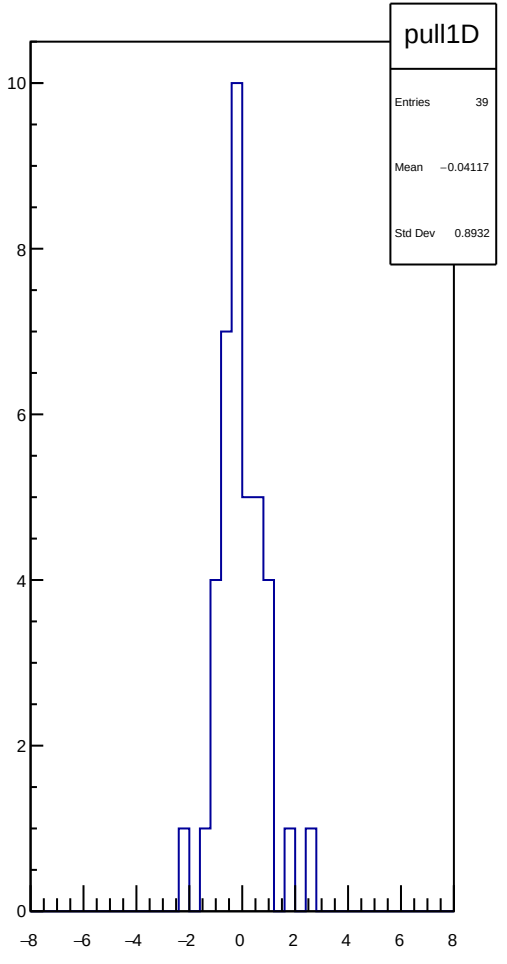

asym_sam_13_57_dd_mean vs run
χ² / ndf 33.81 / 38
p0 −1022 ± 762.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 42.18
Std Dev 27.43
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02136
Std Dev 0.9309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

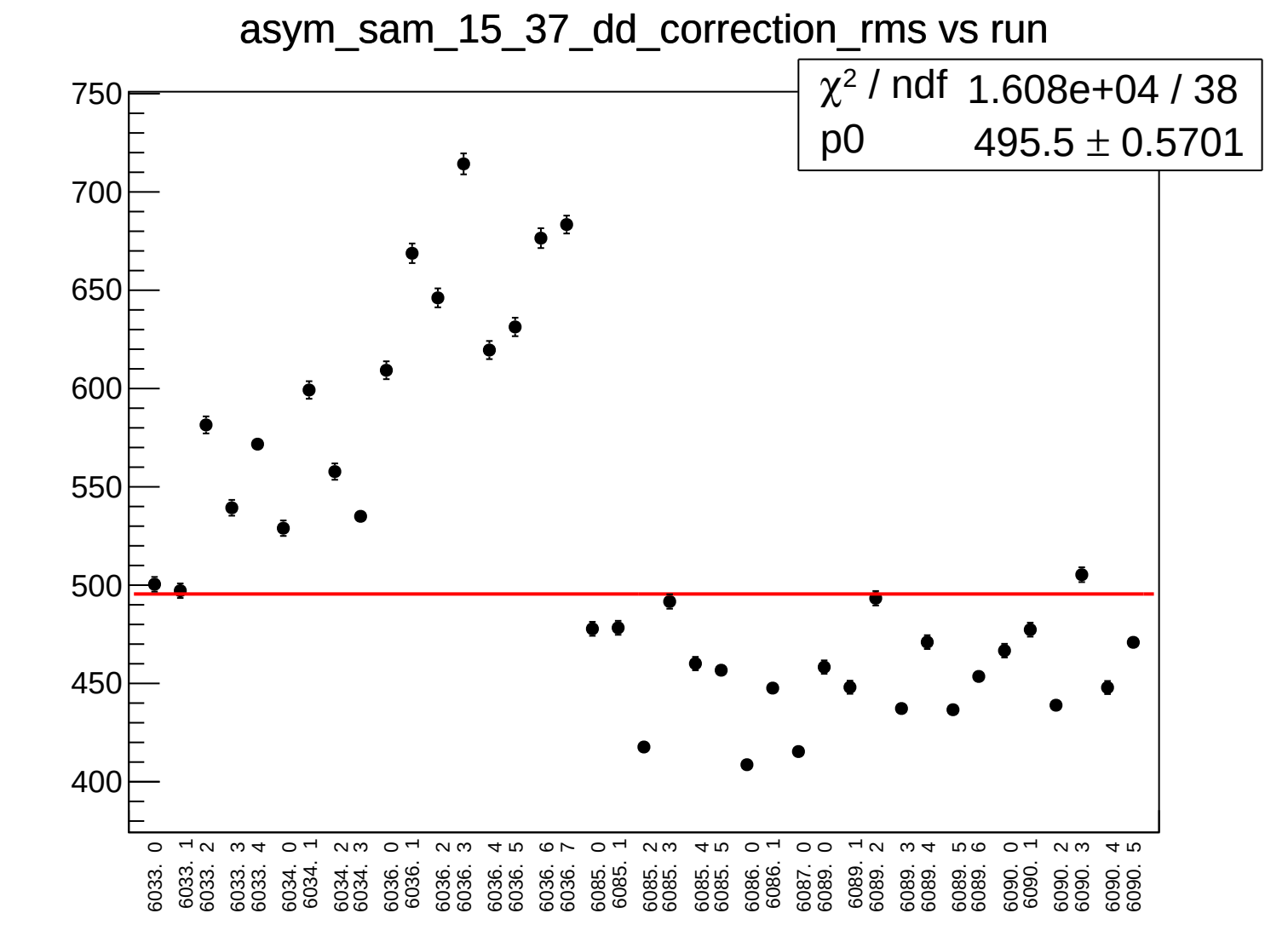

asym_sam_13_57_dd_rms vs run
χ² / ndf 4438 / 38
p0 471.9 ± 0.5389
580
560
540
520
500
480
460
440
420
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

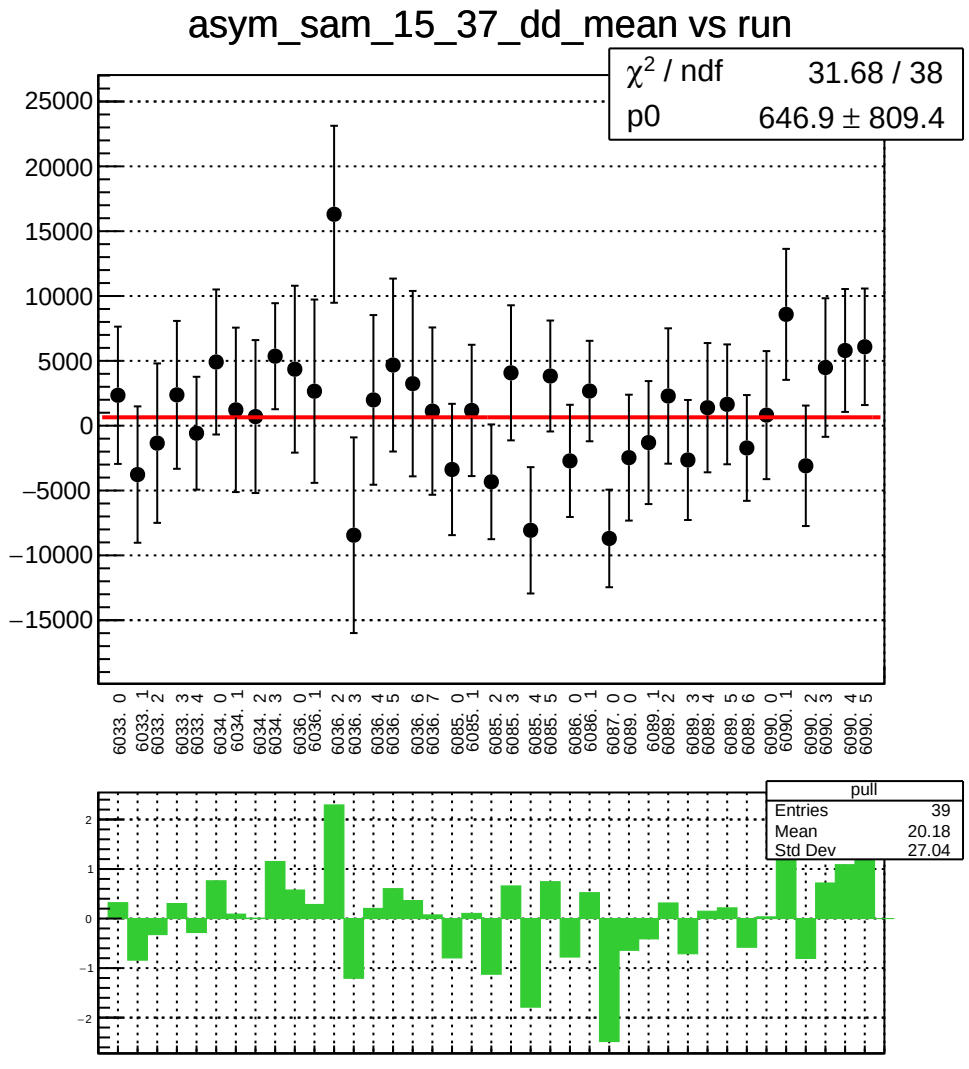

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 26.56 / 38
p0 −46.71 ± 68.39
1000
500
0
−500
−1000
−1500
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 139.7
Std Dev 126.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.01197
Std Dev 0.8251
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

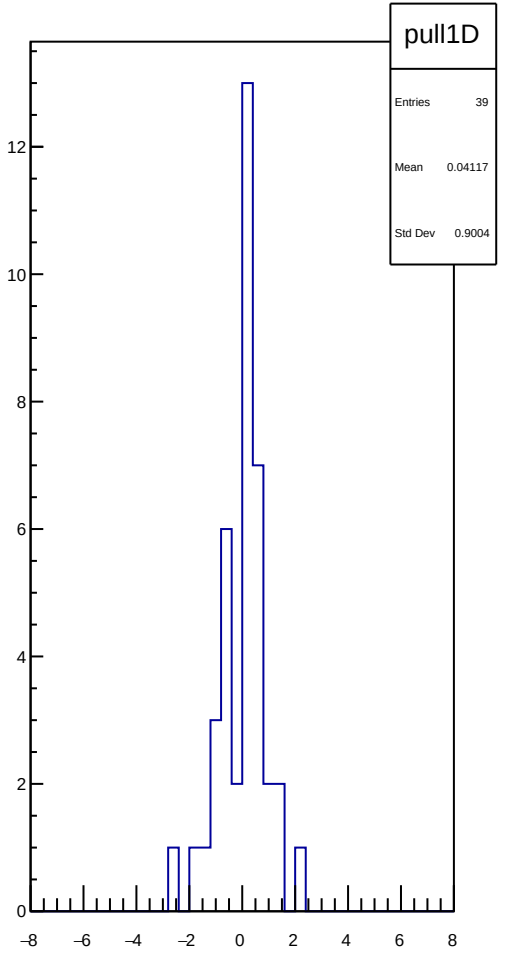

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3651 / 38
p0 42.37 ± 0.04836
52
50
48
46
44
42
40
38
36
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

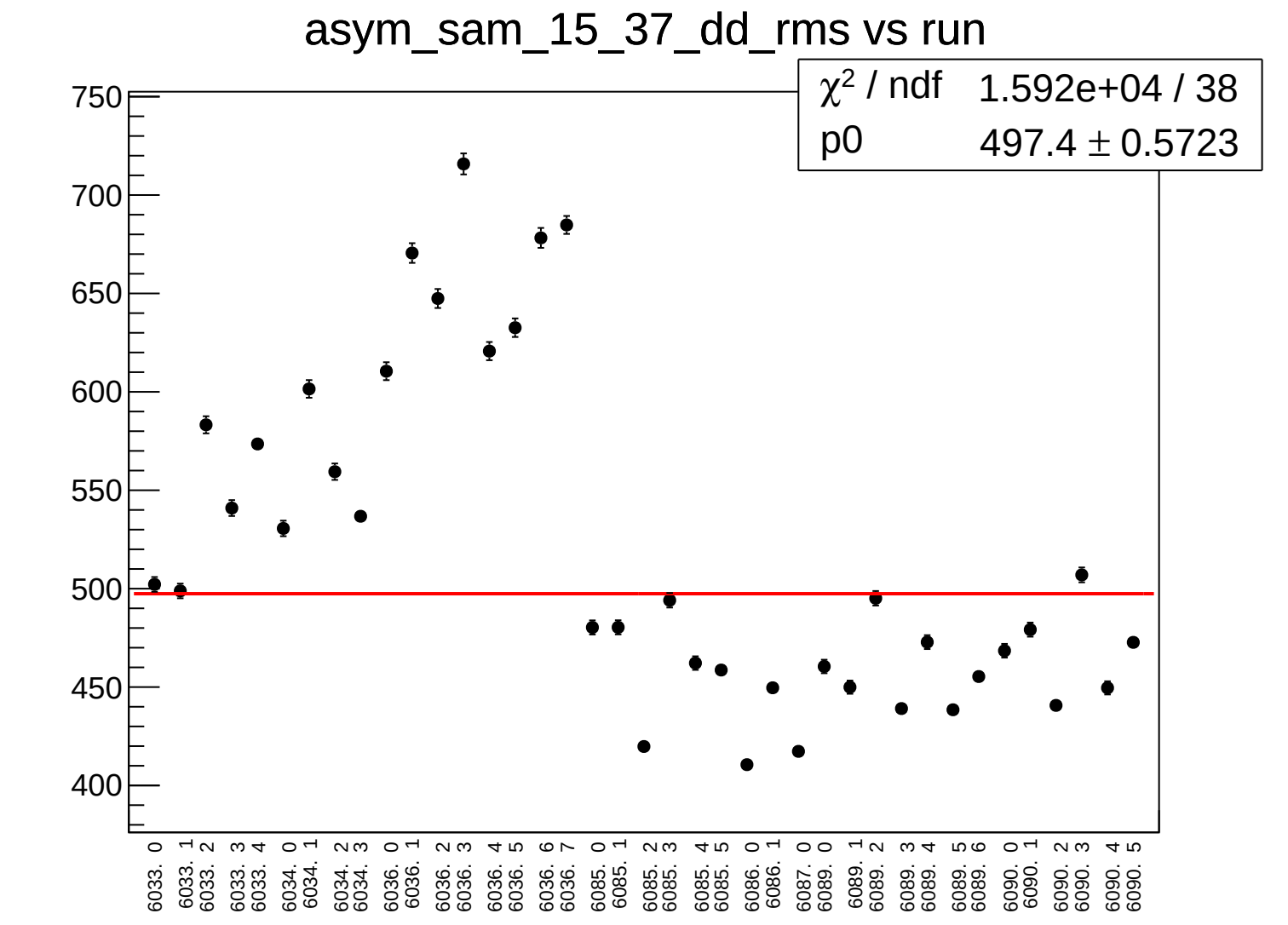

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 31.18 / 38
p0 −705 ± 806.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 22.78
Std Dev 26.06
2
1
0
−1
−2

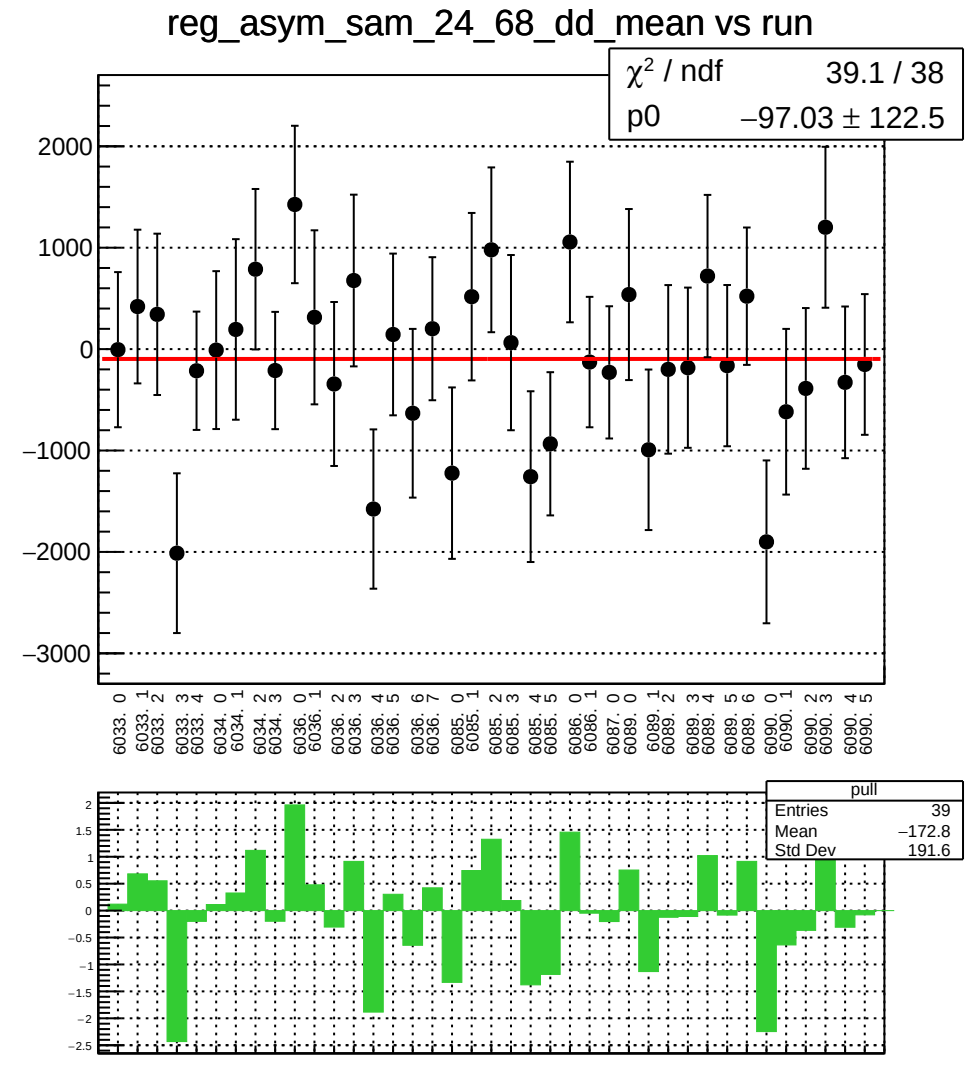

pull1D
Entries 39
Mean −0.04117
Std Dev 0.8932
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

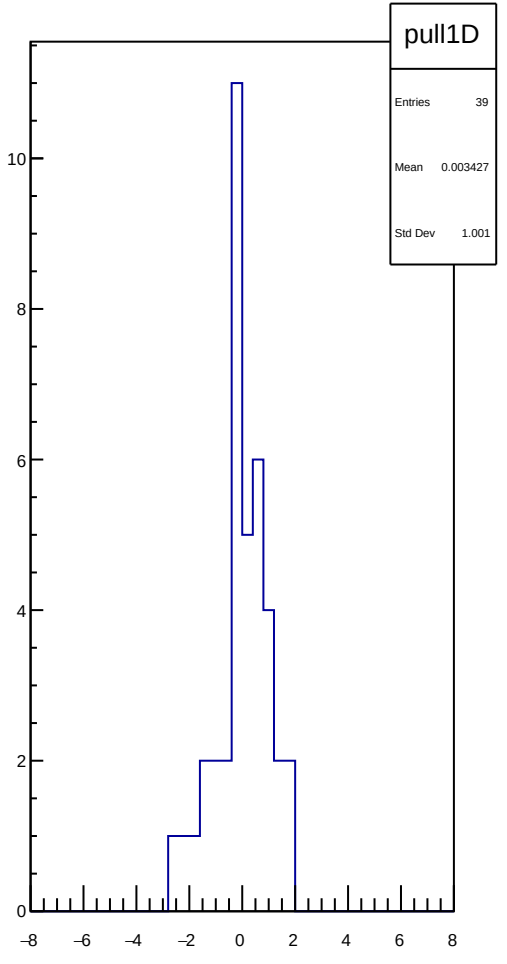

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.608e+04 / 38
p0 495.5 ± 0.5701
750
700
650
600
550
500
450
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

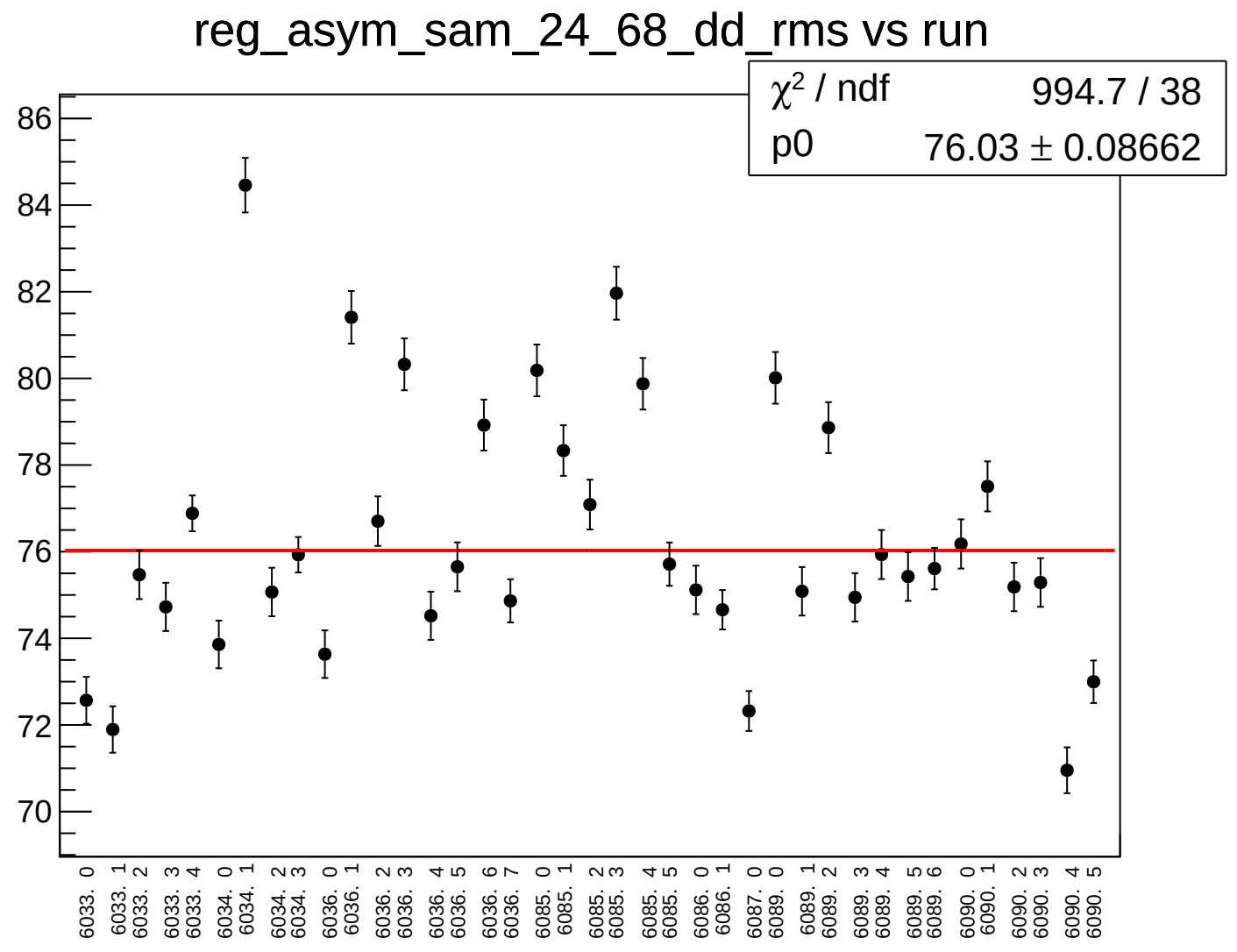

asym_sam_15_37_dd_mean vs run
χ² / ndf 31.68 / 38
p0 646.9 ± 809.4
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 20.18
Std Dev 27.04
2
1
0
−1
−2

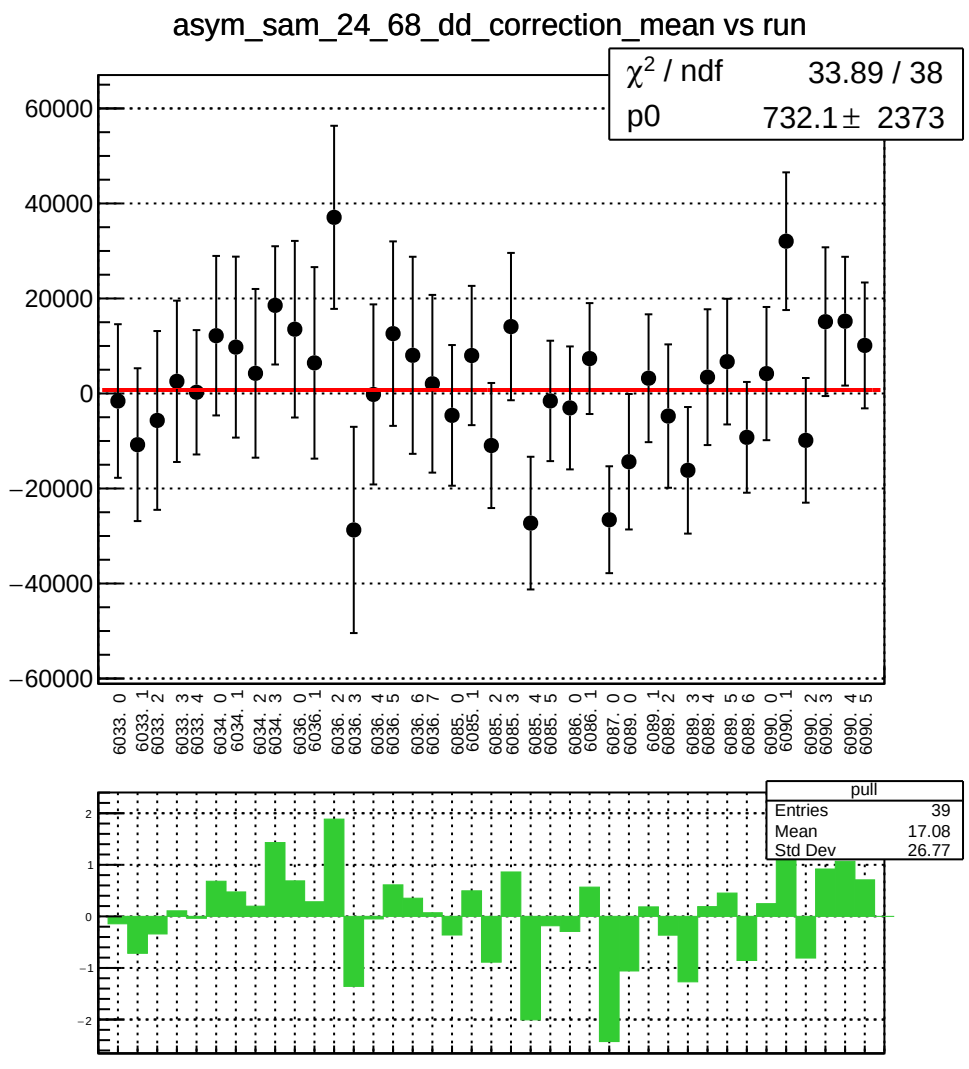

pull1D
Entries 39
Mean 0.04117
Std Dev 0.9004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

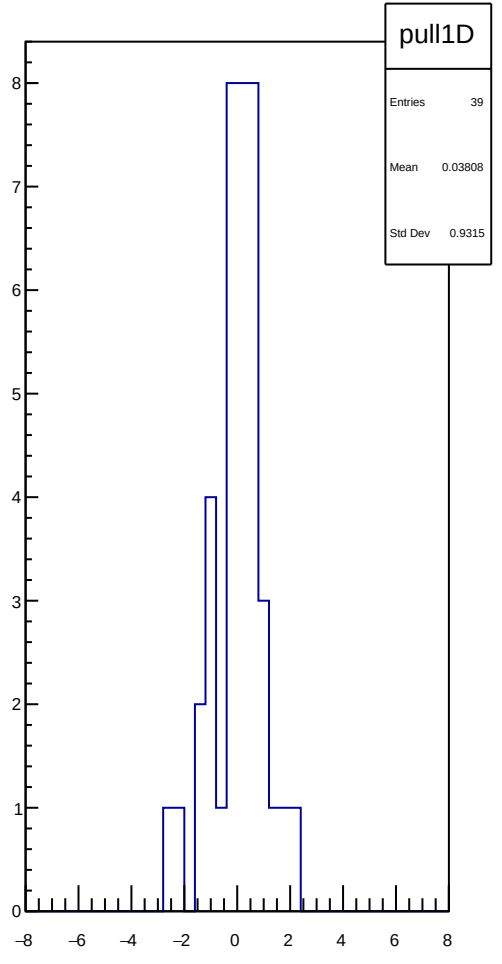

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.592e+04 / 38
p0 497.4 ± 0.5723
750
700
650
600
550
500
450
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

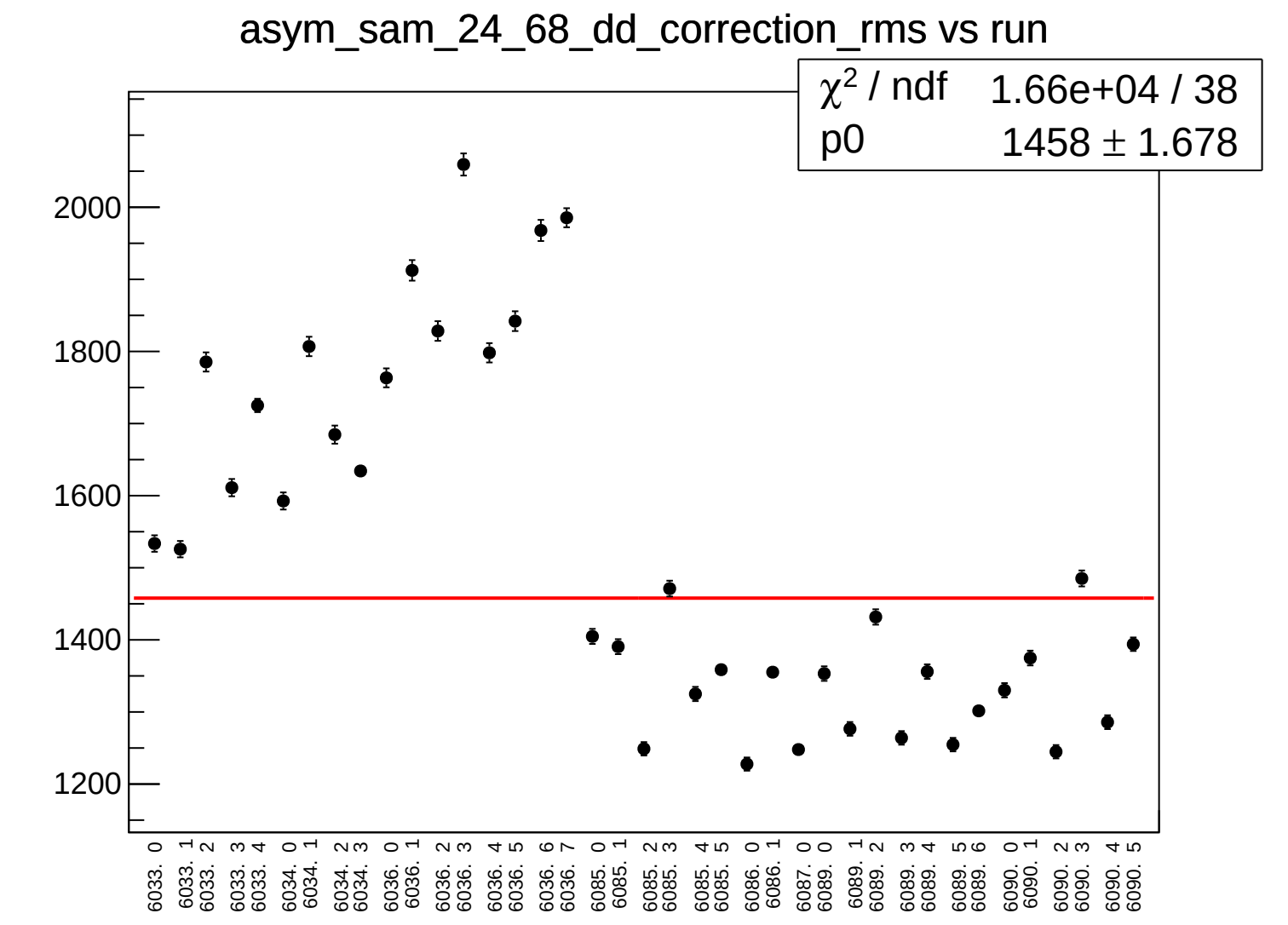

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 39.1 / 38
p0 −97.03 ± 122.5
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −172.8
Std Dev 191.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

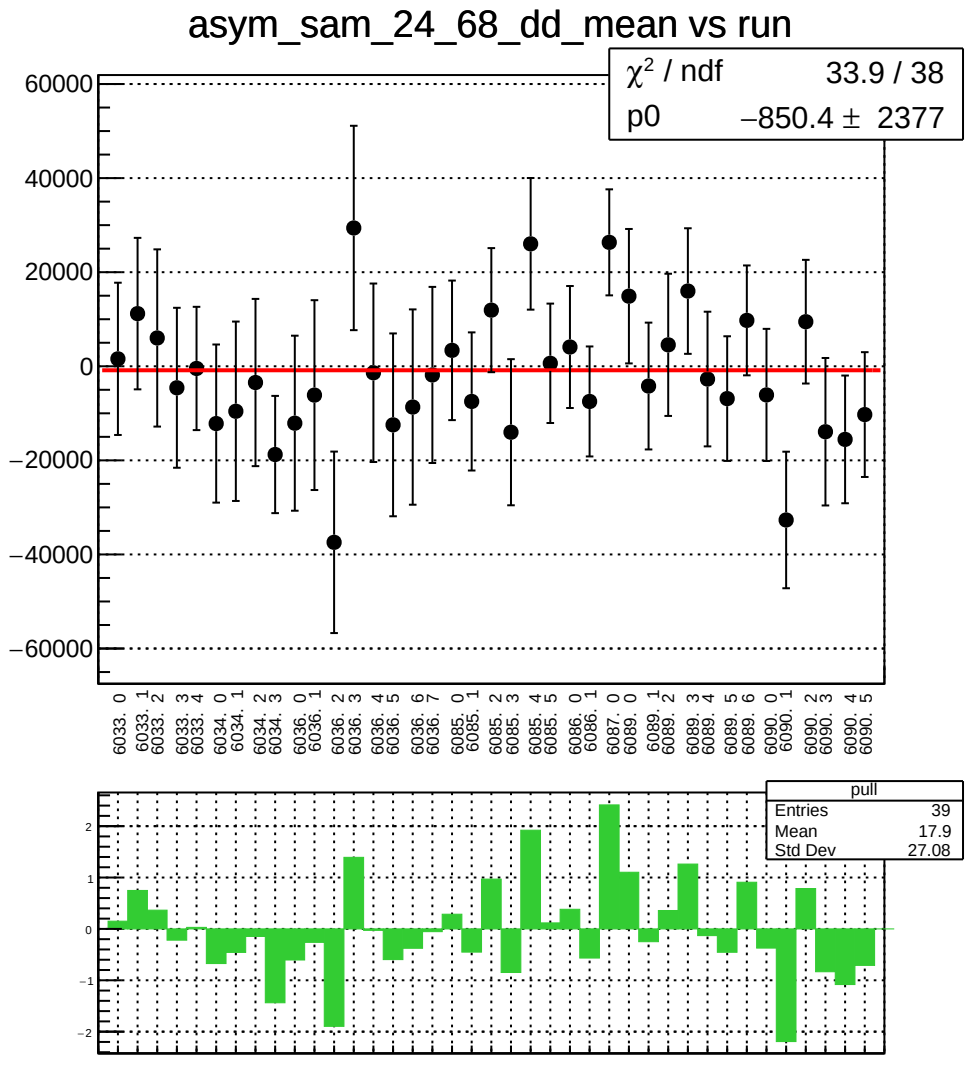

pull1D
Entries 39
Mean 0.003427
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

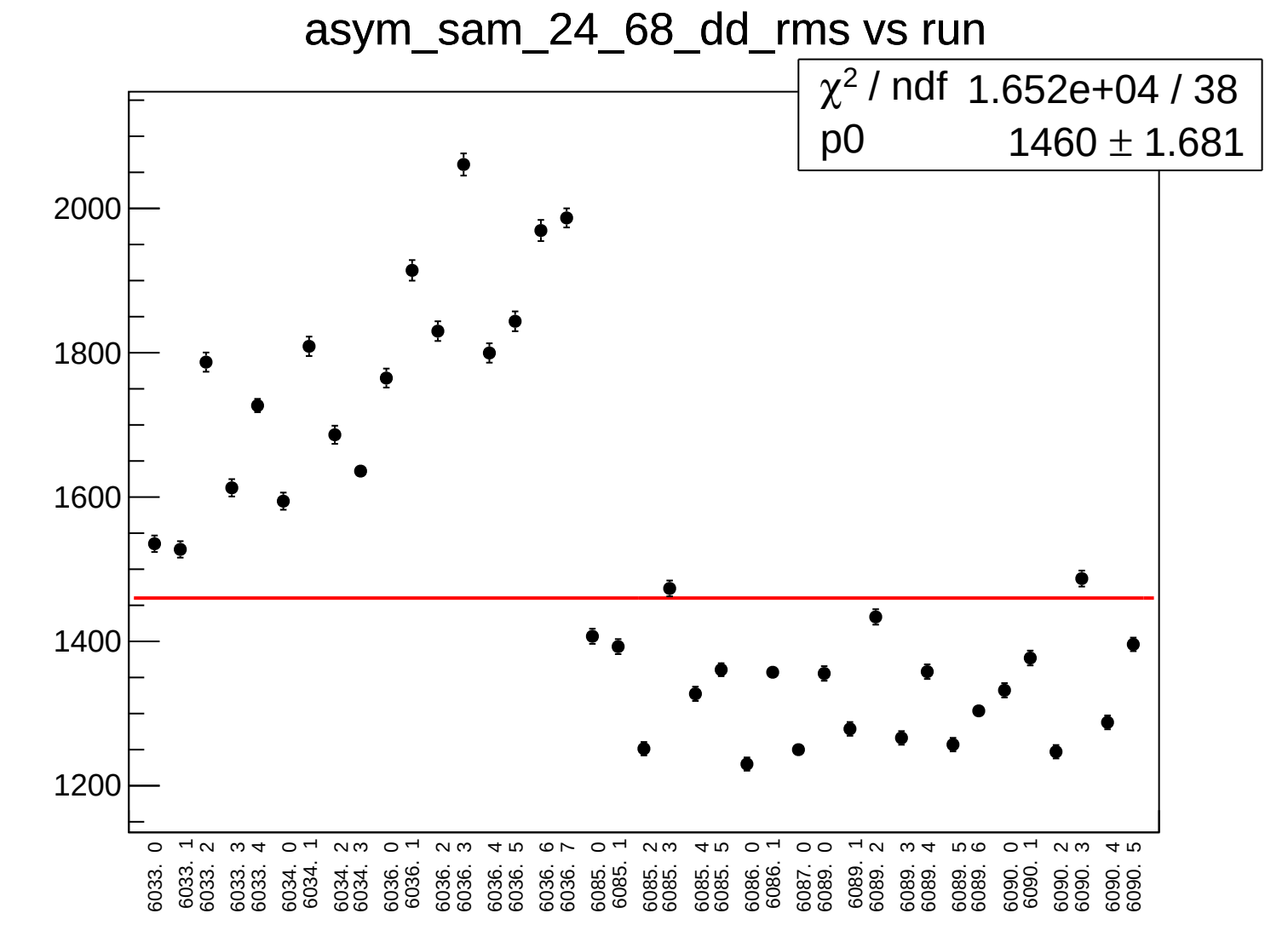

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 994.7 / 38
p0 76.03 ± 0.08662
86
84
82
80
78
76
74
72
70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 33.89 / 38
p0 732.1 ± 2373
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 17.08
Std Dev 26.77
2
1
0
−1
−2


pull1D
Entries 39
Mean 0.03808
Std Dev 0.9315
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.66e+04 / 38
p0 1458 ± 1.678
2000
1800
1600
1400
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_24_68_dd_mean vs run
χ² / ndf 33.9 / 38
p0 −850.4 ± 2377
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 17.9
Std Dev 27.08
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03726
Std Dev 0.9316
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_rms vs run
χ² / ndf 1.652e+04 / 38
p0 1460 ± 1.681
2000
1800
1600
1400
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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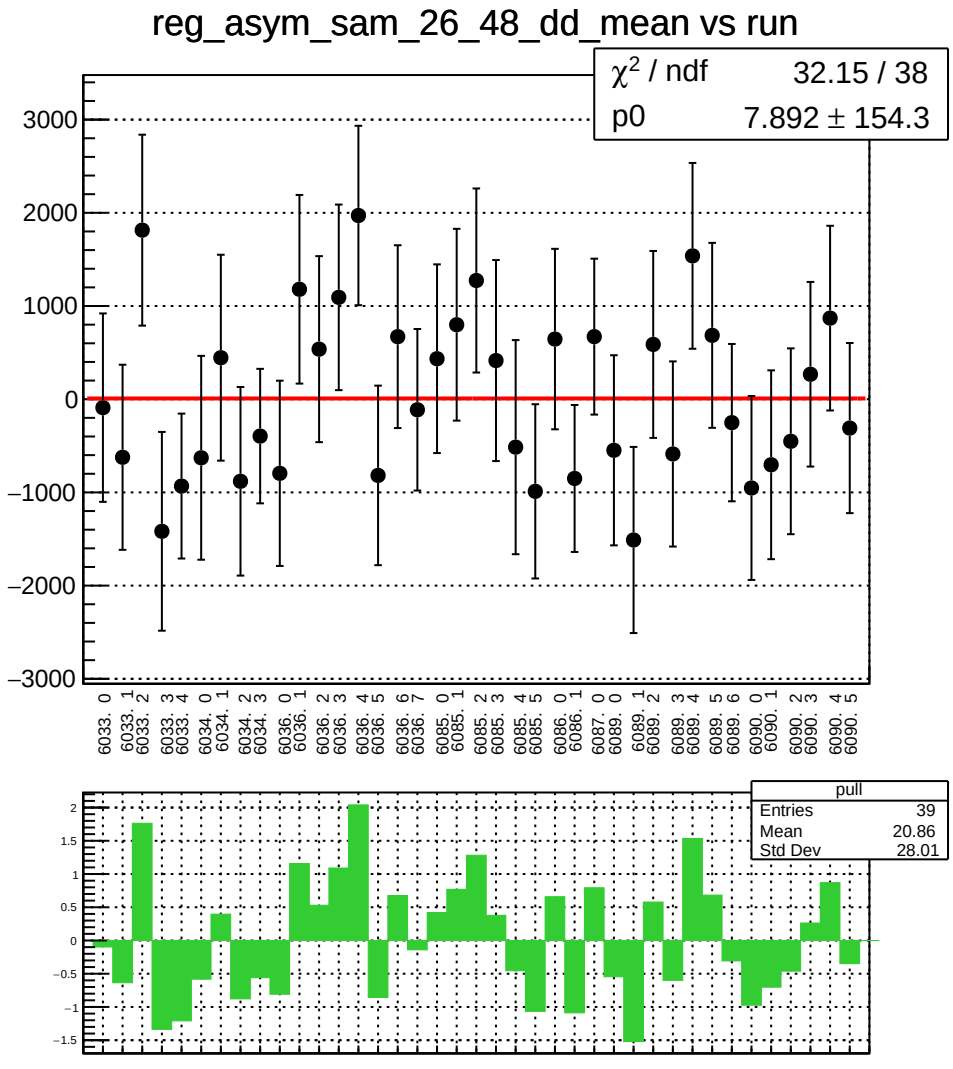
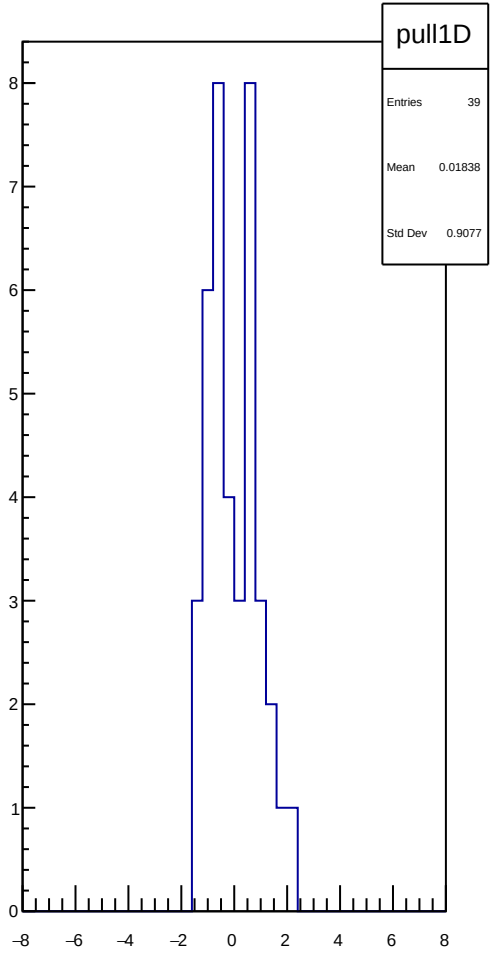
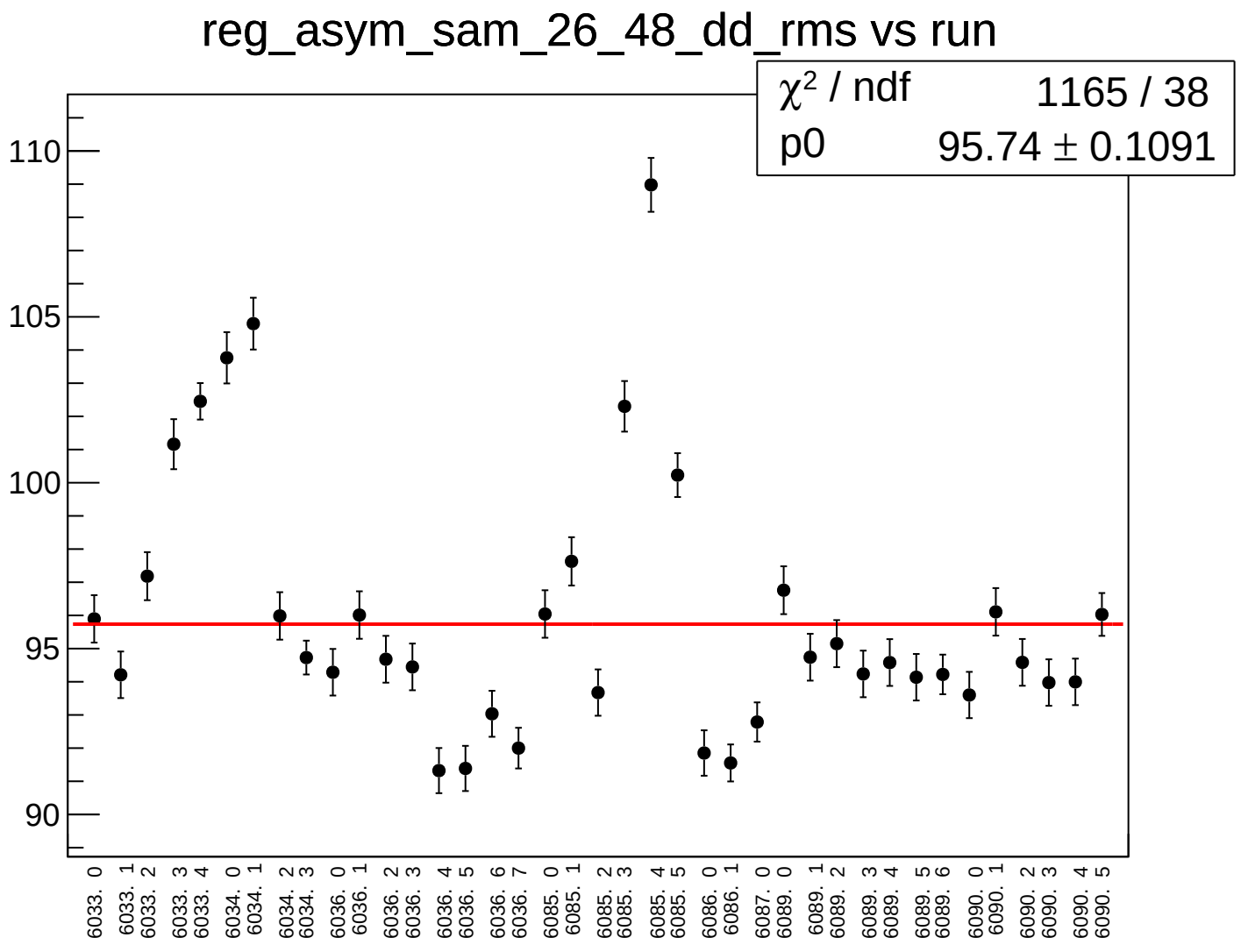
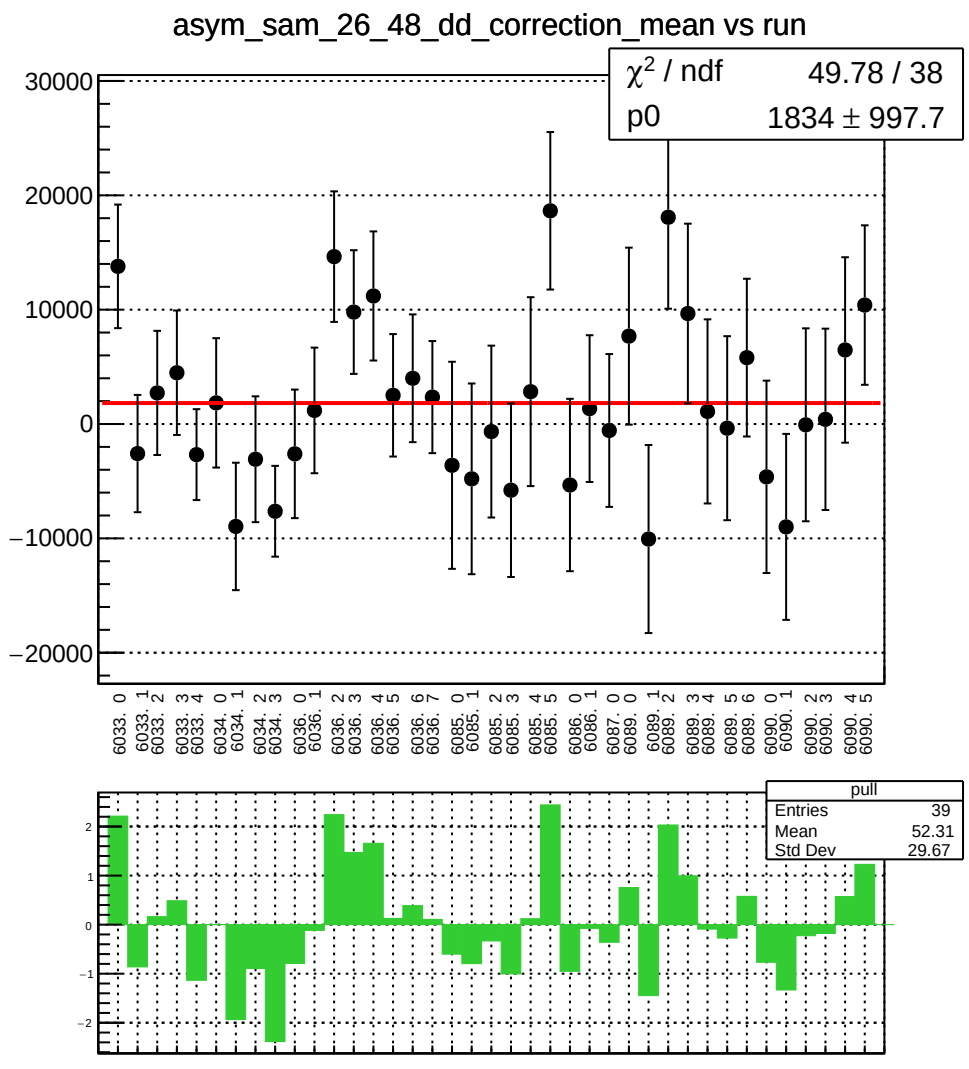
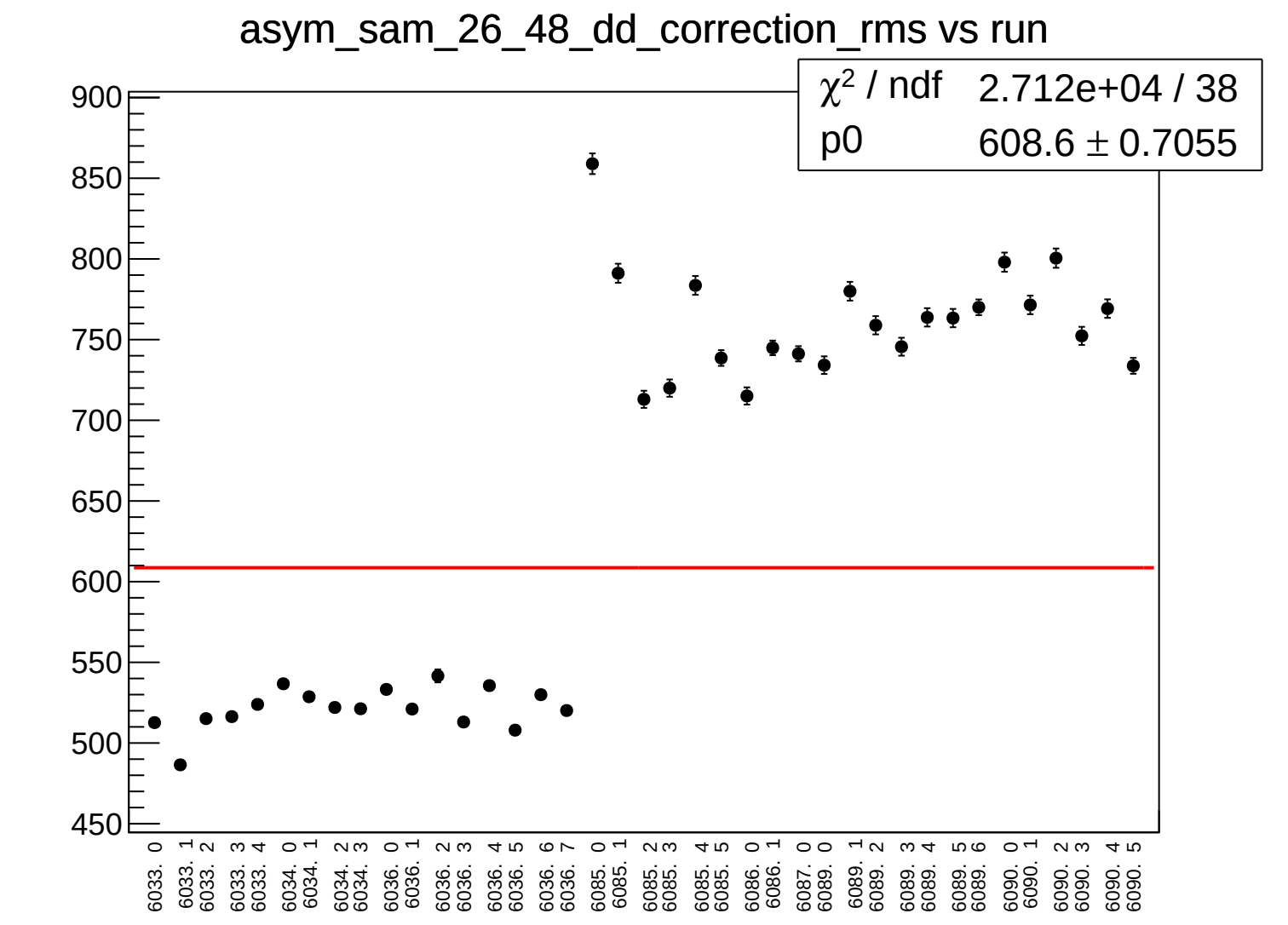
6090. 5

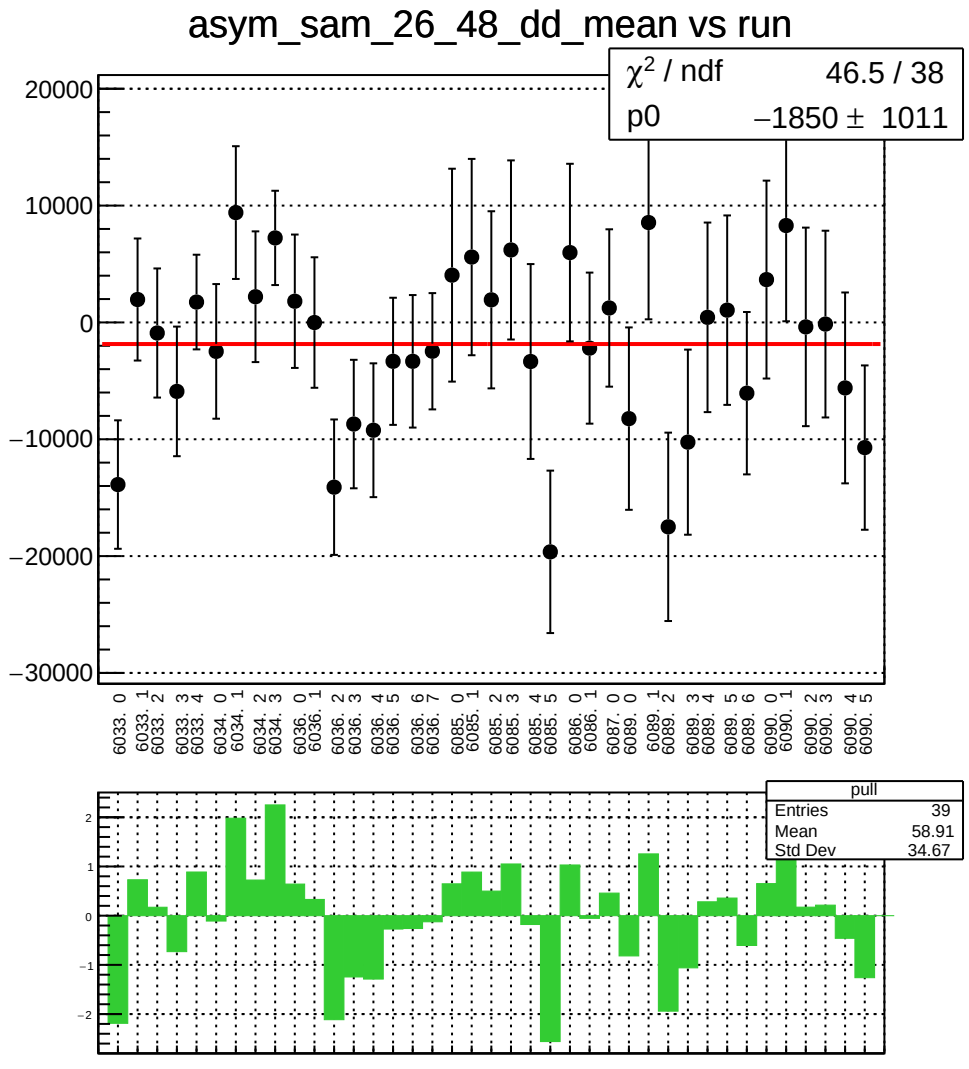

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 32.15 / 38
p0 7.892 ± 154.3
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 20.86
Std Dev 28.01
2
1.5
1
0.5
0
−0.5
−1
−1.5

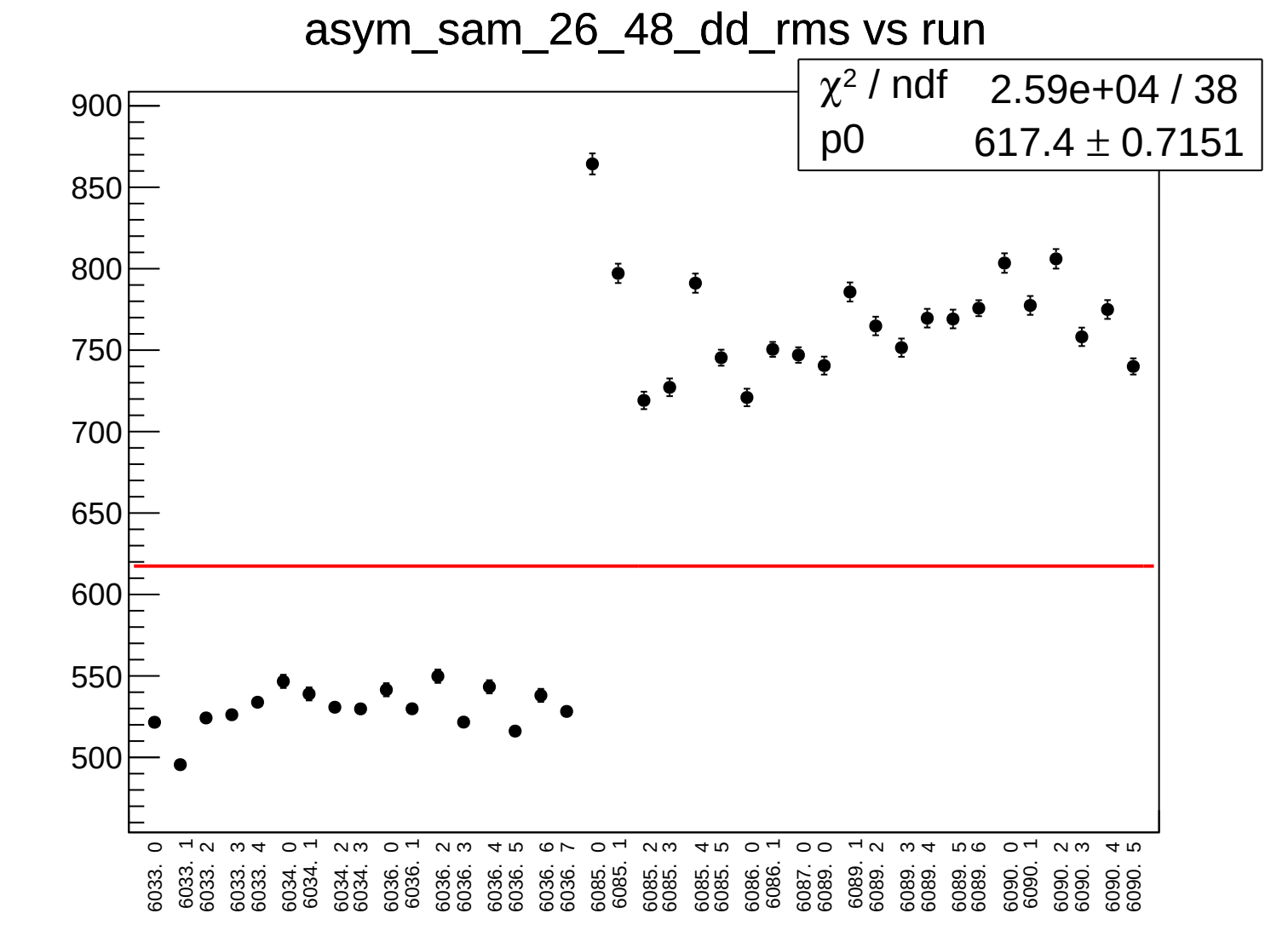

pull1D
Entries 39
Mean 0.01838
Std Dev 0.9077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

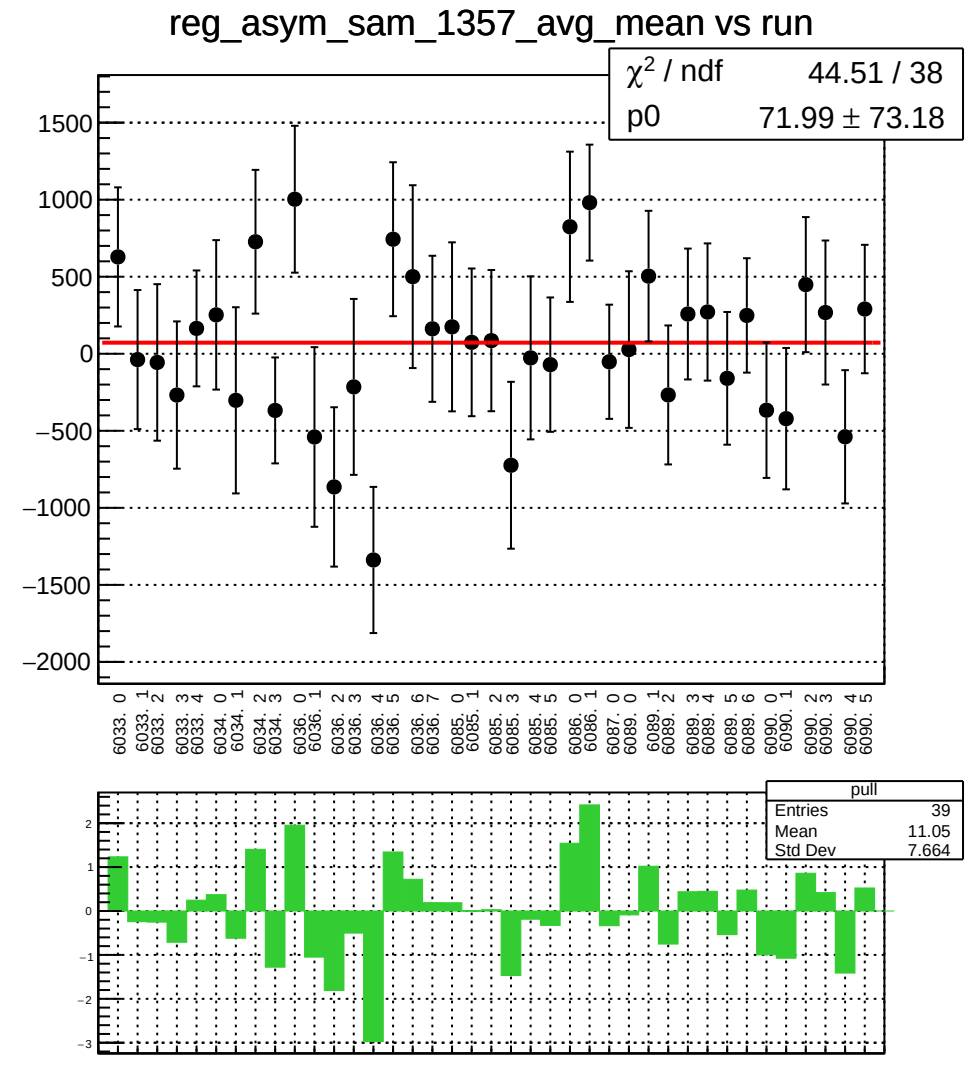

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1165 / 38
p0 95.74 ± 0.1091
110
105
100
95
90
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

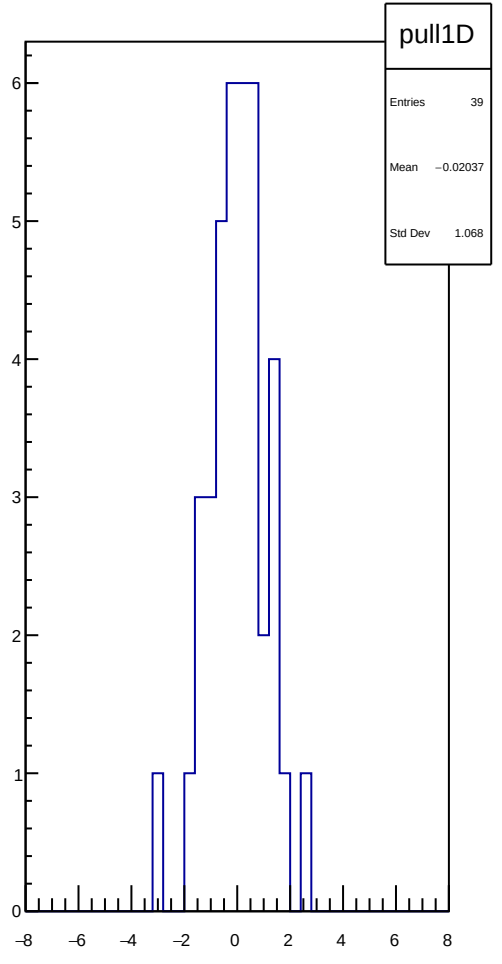

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 49.78 / 38
p0 1834 ± 997.7
30000
20000
10000
0
−10000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 52.31
Std Dev 29.67
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.0265
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

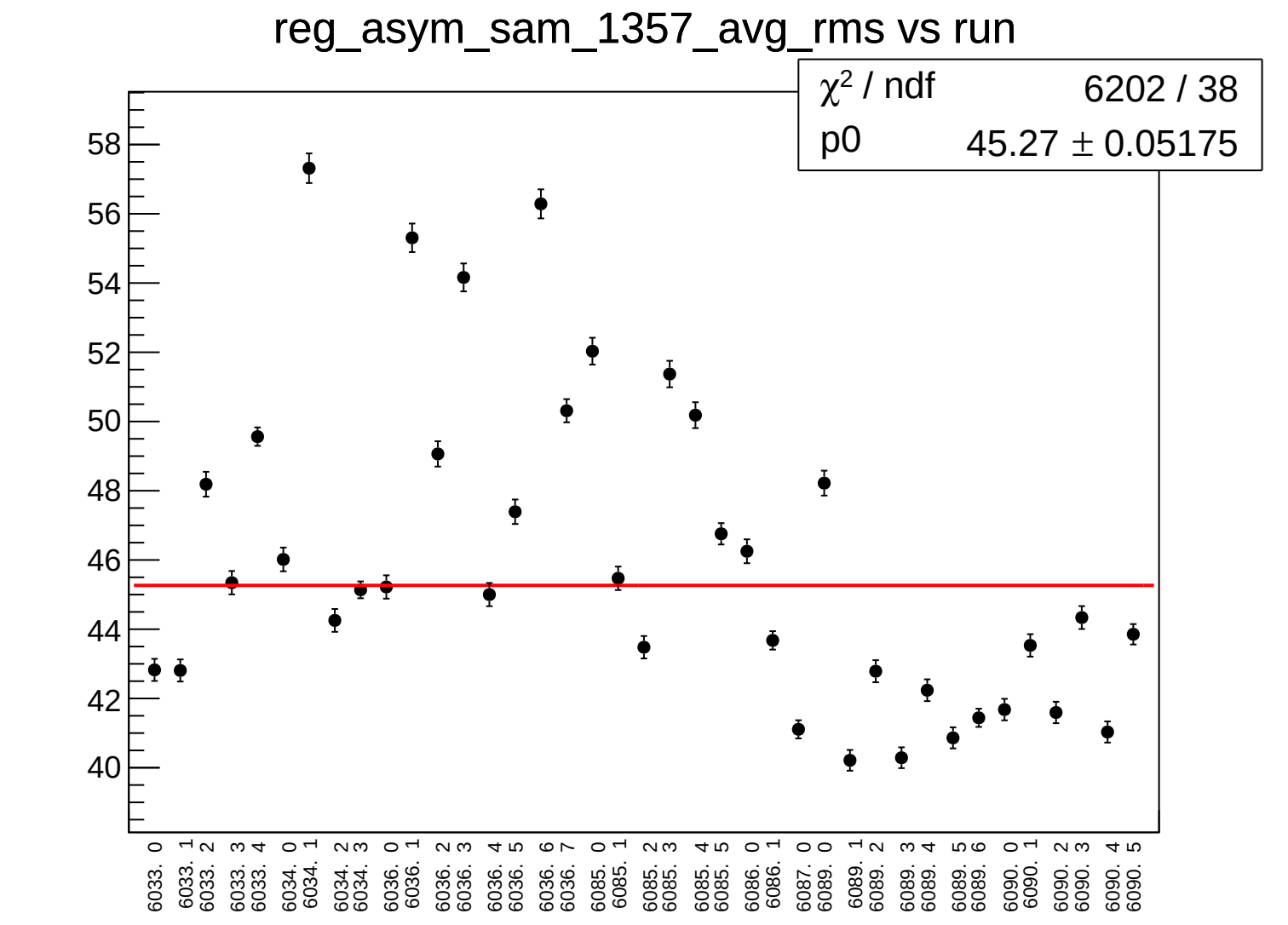

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 2.712e+04 / 38
p0 608.6 ± 0.7055
900
850
800
750
700
650
600
550
500
450
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

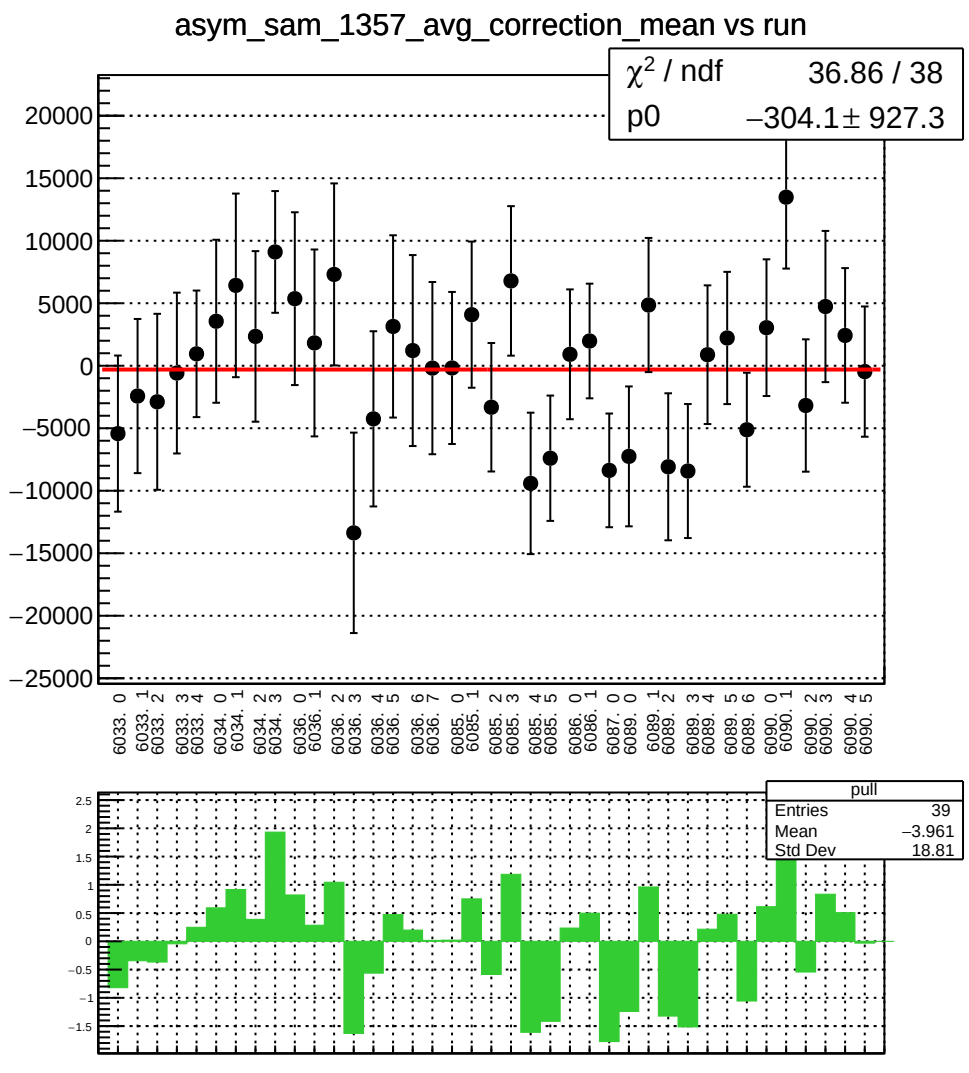

asym_sam_26_48_dd_mean vs run
χ² / ndf 46.5 / 38
p0 −1850 ± 1011
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 58.91
Std Dev 34.67
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.02078
Std Dev 1.092
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

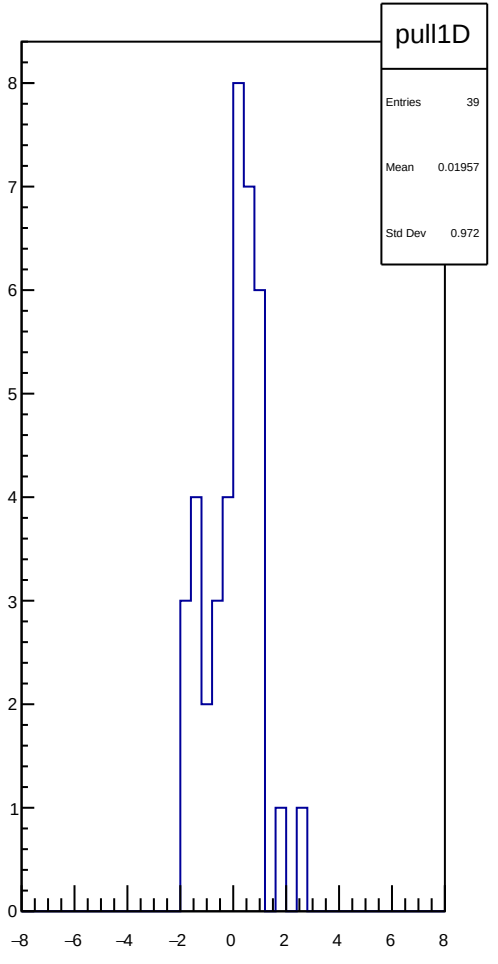

asym_sam_26_48_dd_rms vs run
χ² / ndf 2.59e+04 / 38
p0 617.4 ± 0.7151
900
850
800
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

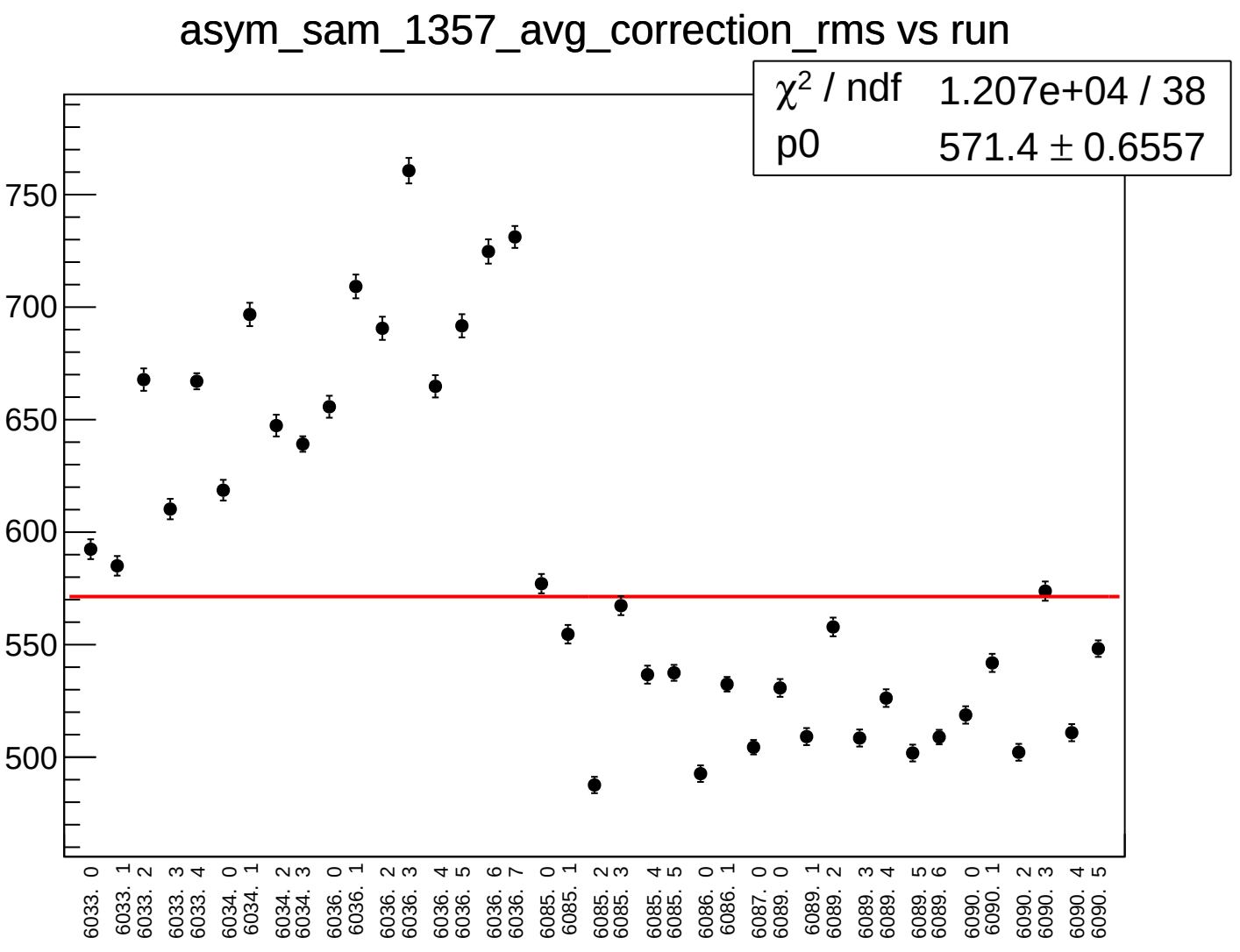

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 44.51 / 38
p0 71.99 ± 73.18
1500
1000
500
0
−500
−1000
−1500
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.05
Std Dev 7.664
2
1
0
−1
−2
−3

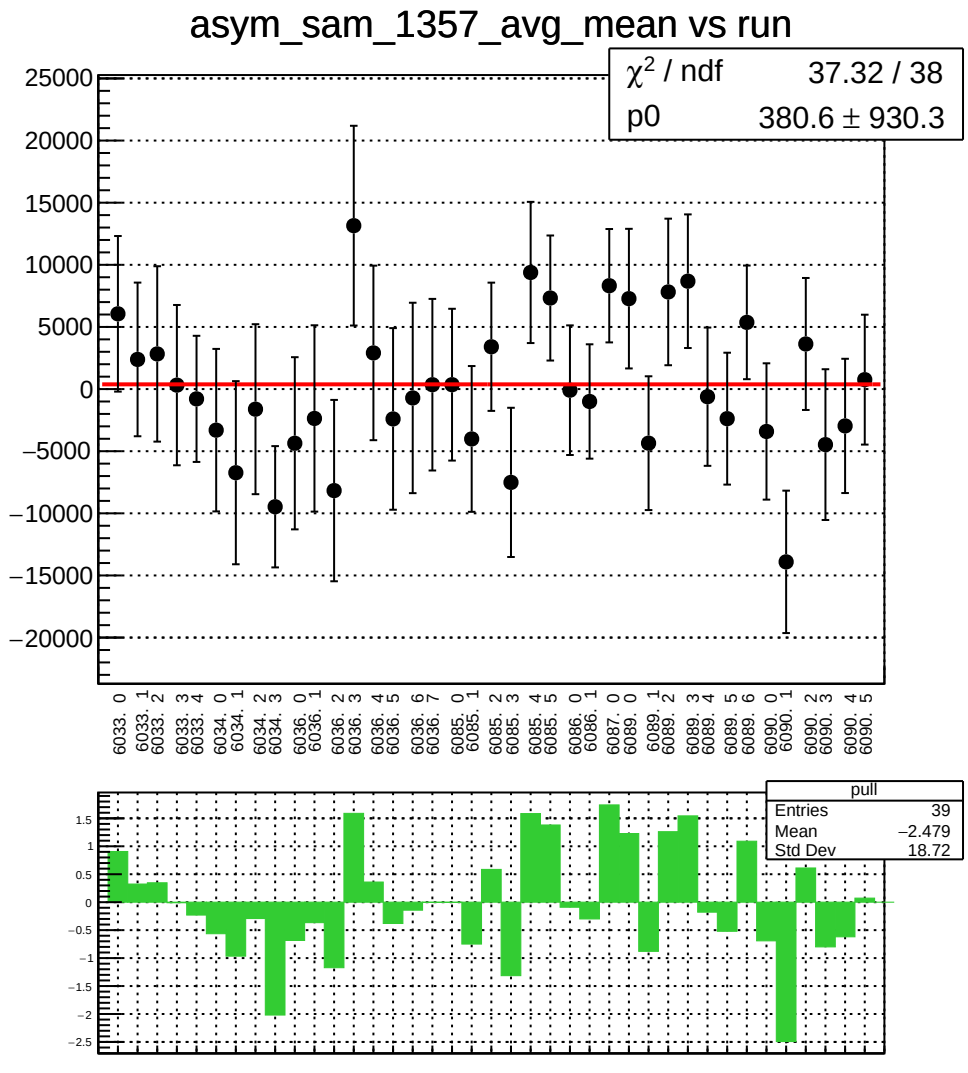

pull1D
Entries 39
Mean −0.02037
Std Dev 1.068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

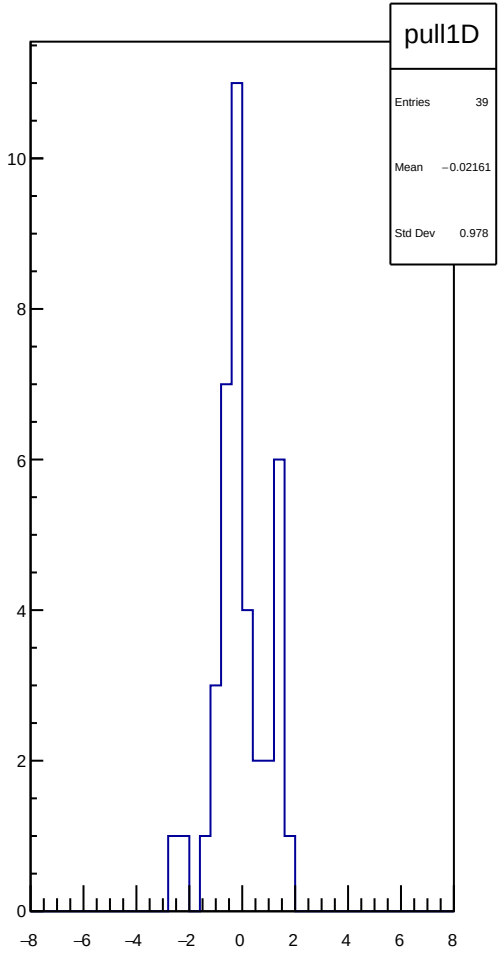

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 6202 / 38
p0 45.27 ± 0.05175
58
56
54
52
50
48
46
44
42
40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

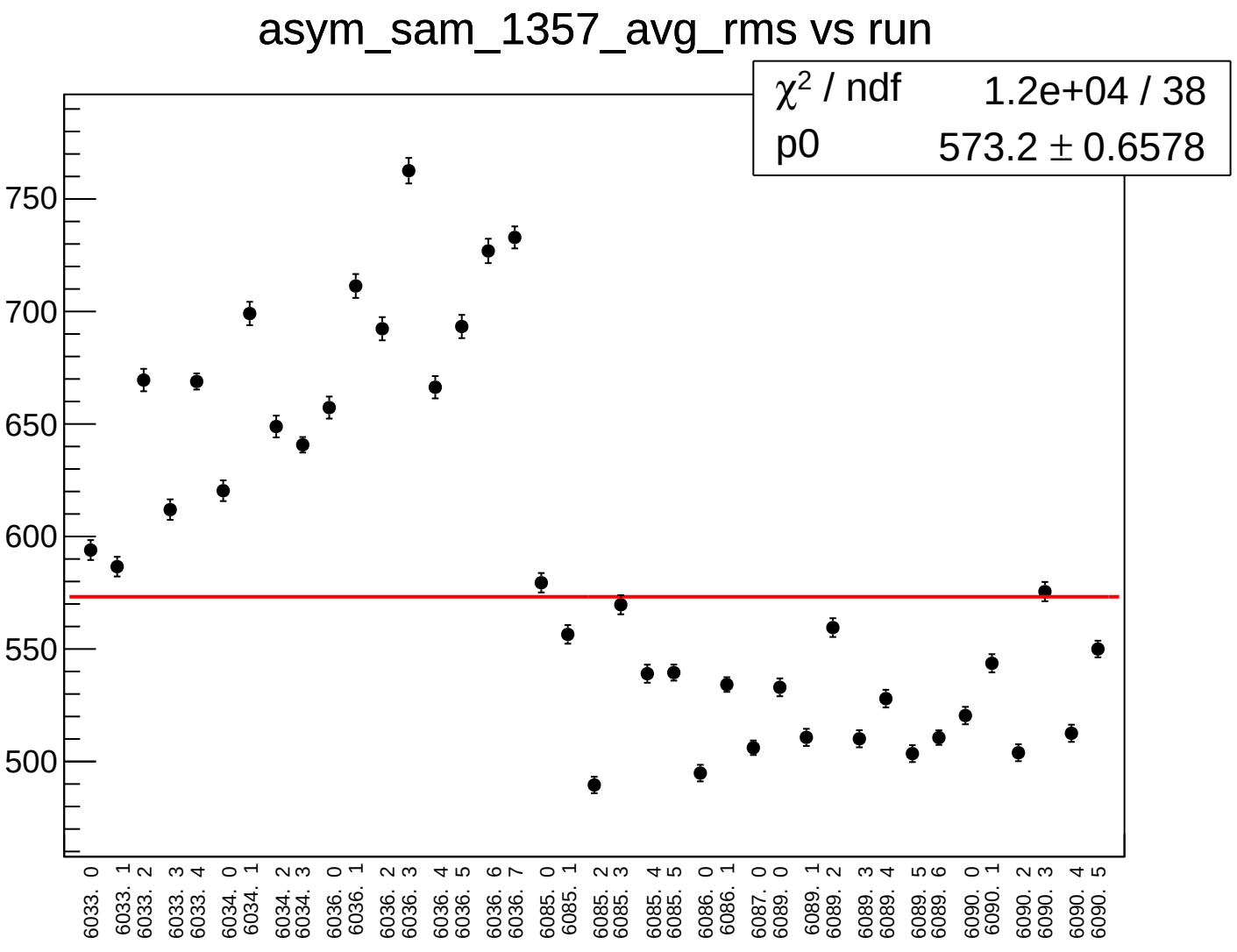

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 36.86 / 38
p0 −304.1± 927.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −3.961
Std Dev 18.81
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

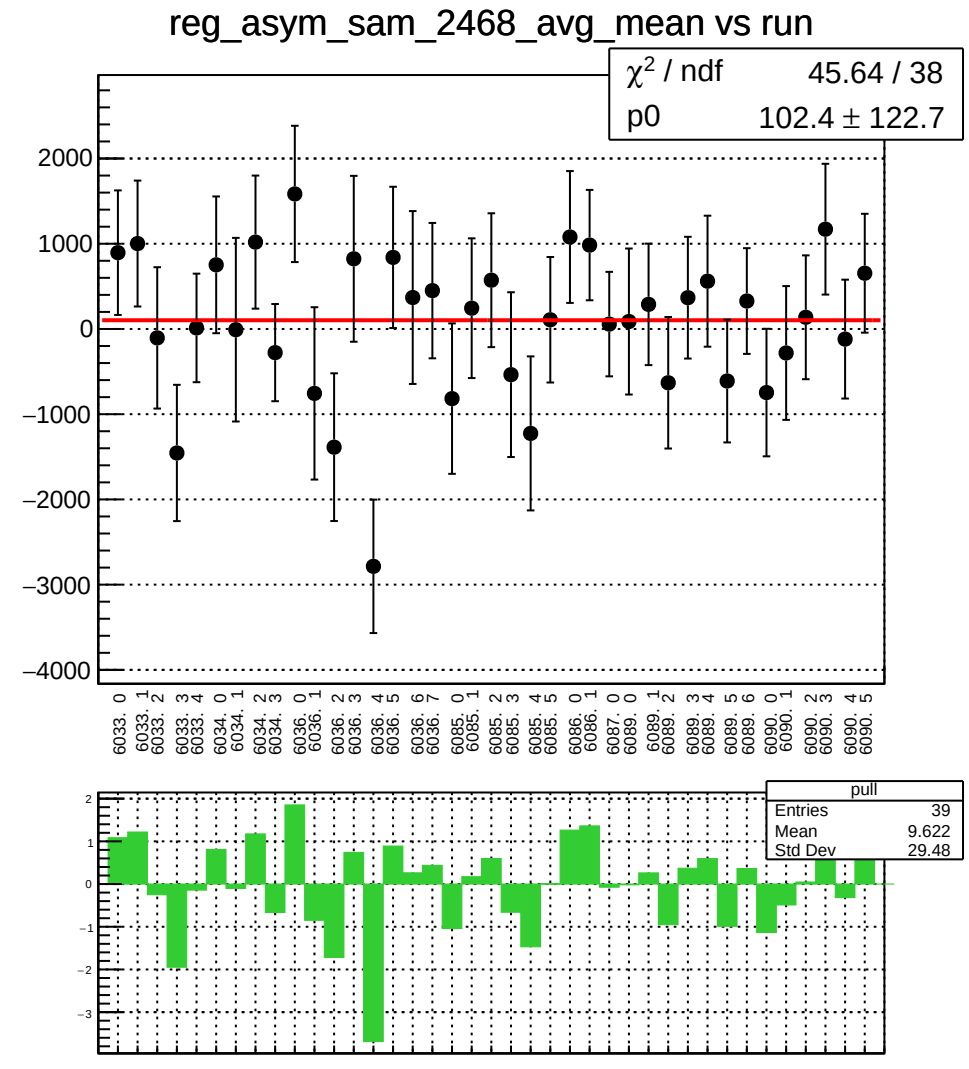

pull1D
Entries 39
Mean 0.01957
Std Dev 0.972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

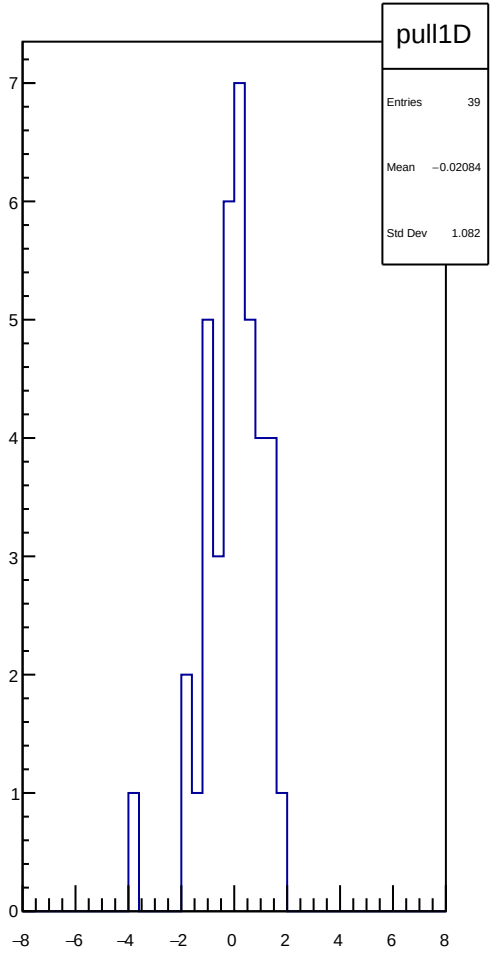

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.207e+04 / 38
p0 571.4 ± 0.6557
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

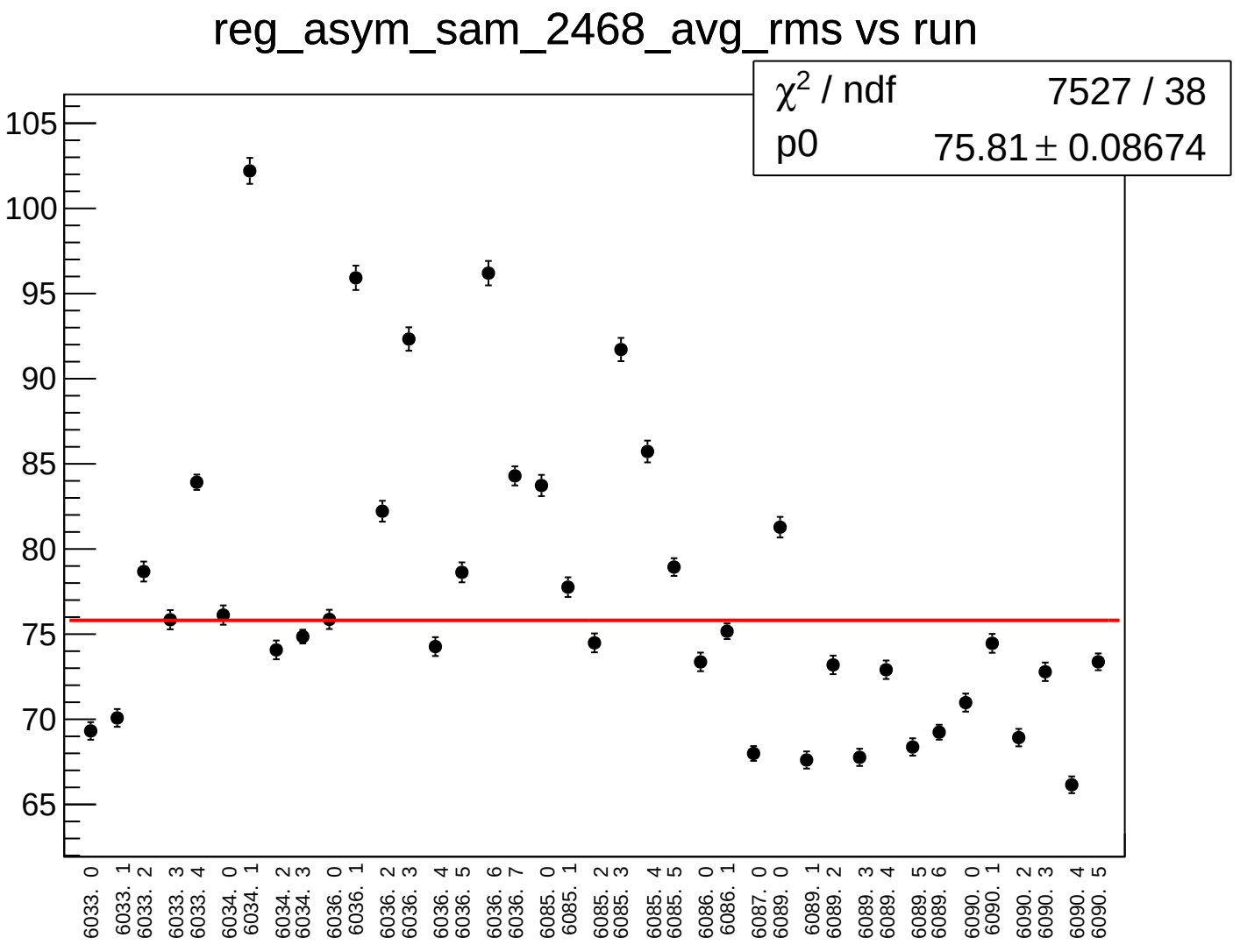

asym_sam_1357_avg_mean vs run
χ² / ndf 37.32 / 38
p0 380.6 ± 930.3
pull
Entries 39
Mean −2.479
Std Dev 18.72

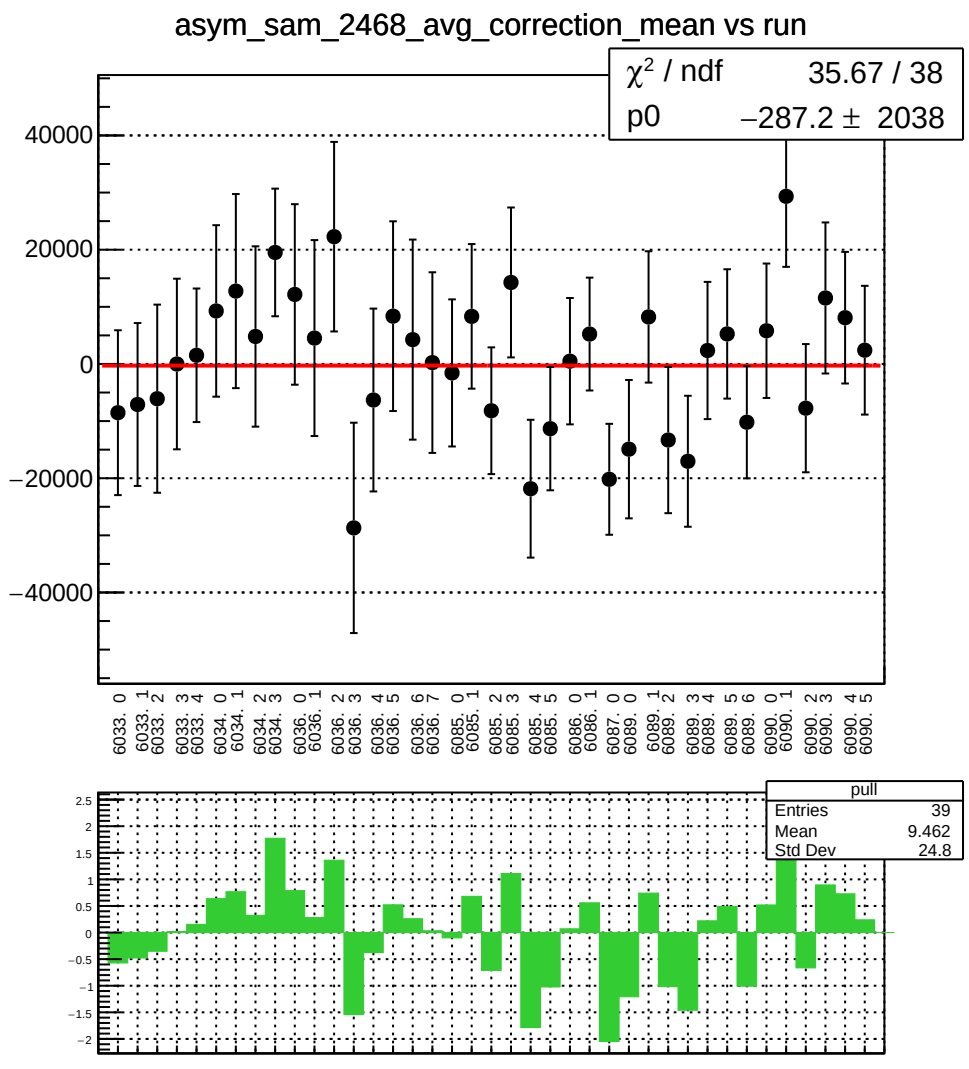

pull1D
Entries 39
Mean −0.02161
Std Dev 0.978

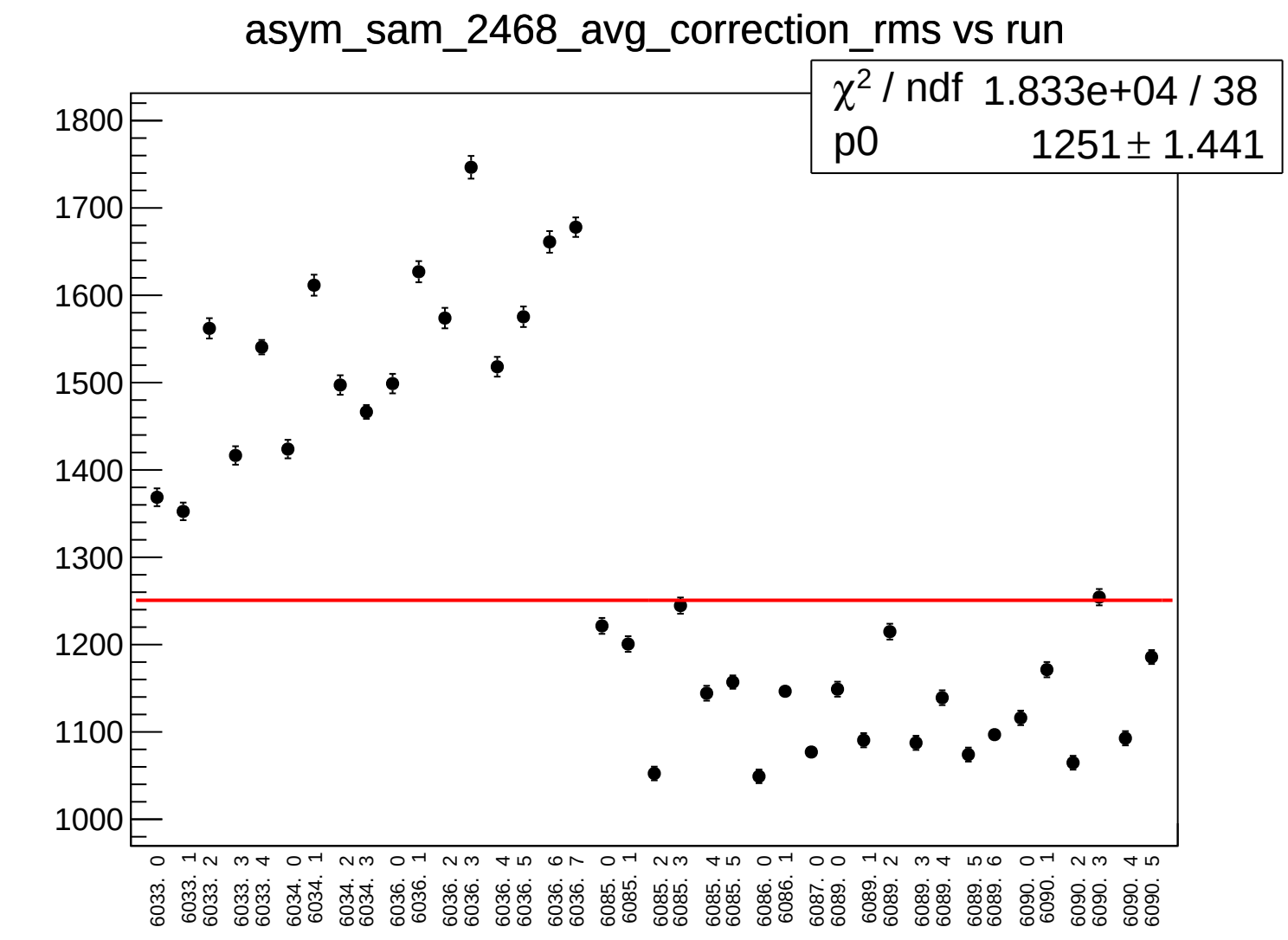

asym_sam_1357_avg_rms vs run
χ² / ndf 1.2e+04 / 38
p0 573.2 ± 0.6578
750
700
650
600
550
500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

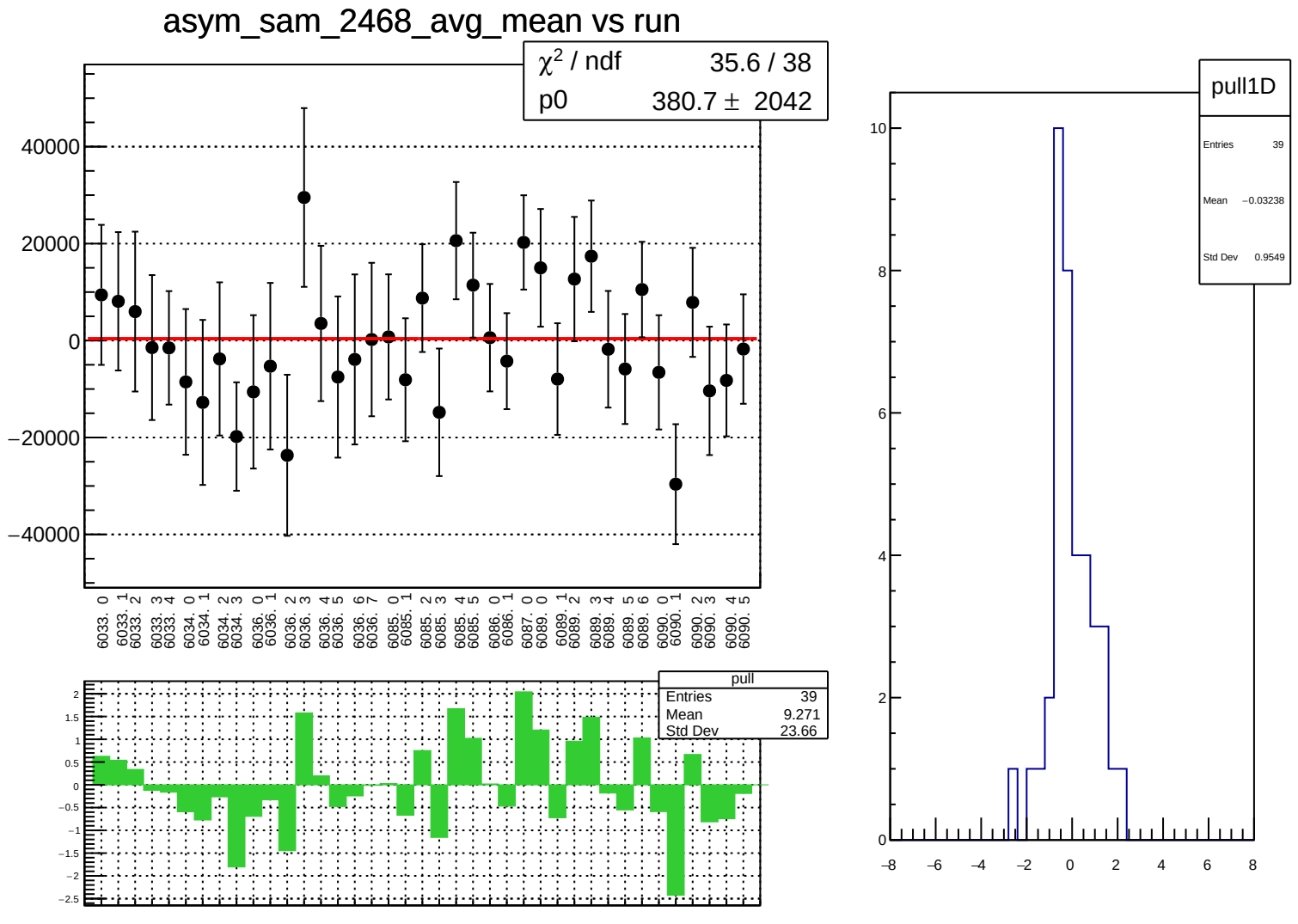

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 45.64 / 38
p0 102.4 ± 122.7
2000
1000
0
−1000
−2000
−3000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 9.622
Std Dev 29.48
2
1
0
−1
−2
−3

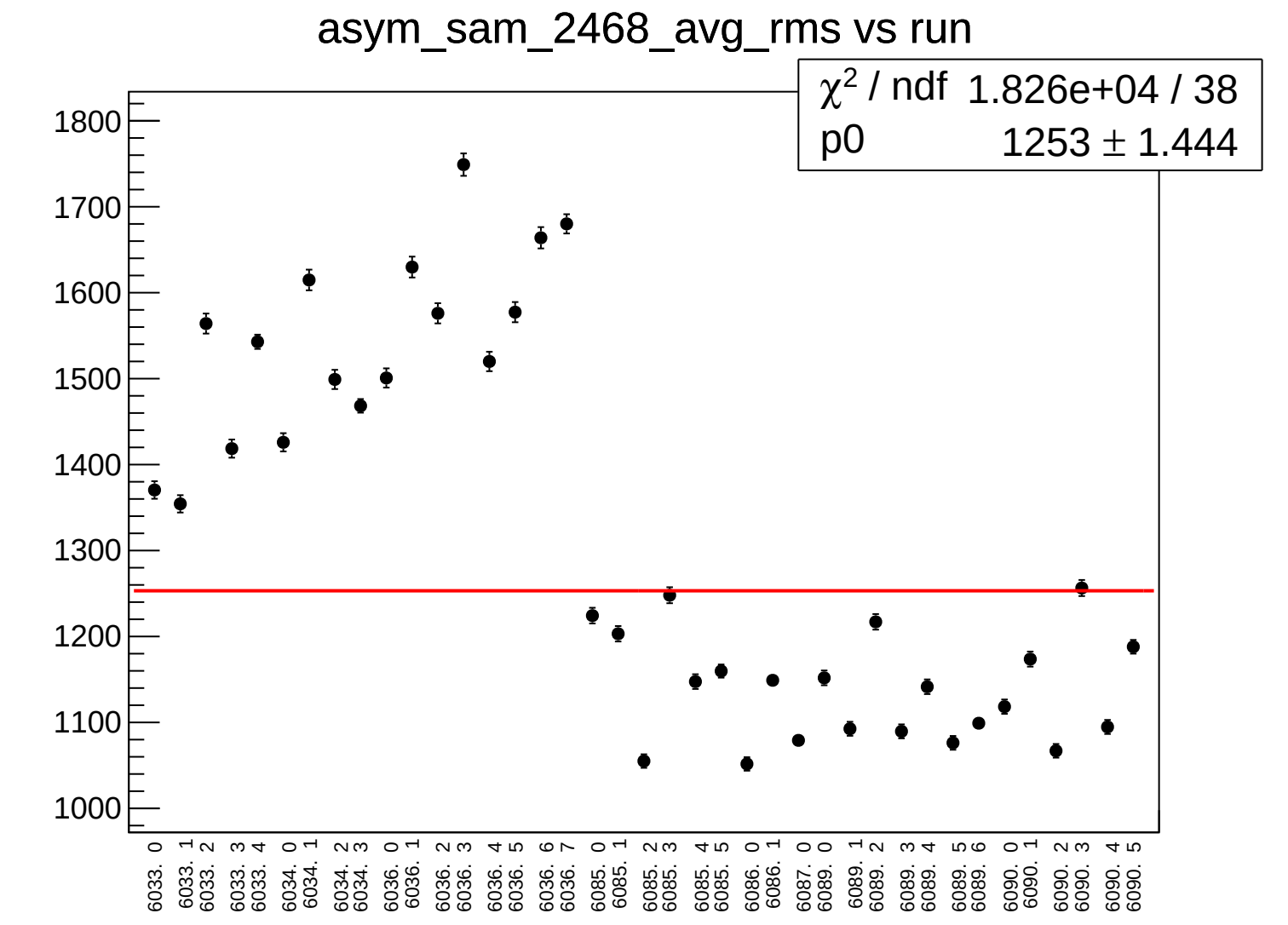

pull1D
Entries 39
Mean −0.02084
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

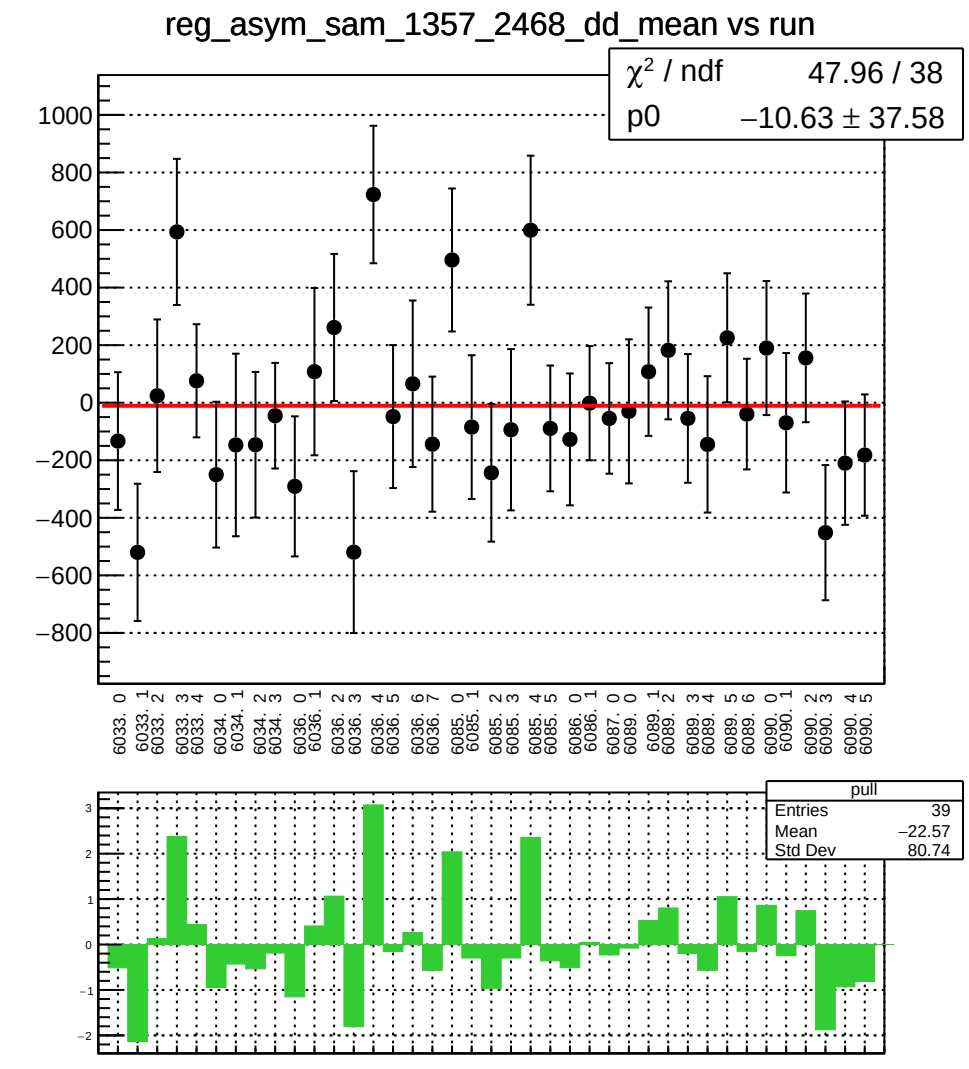

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 7527 / 38
p0 75.81 ± 0.08674
105
100
95
90
85
80
75
70
65
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

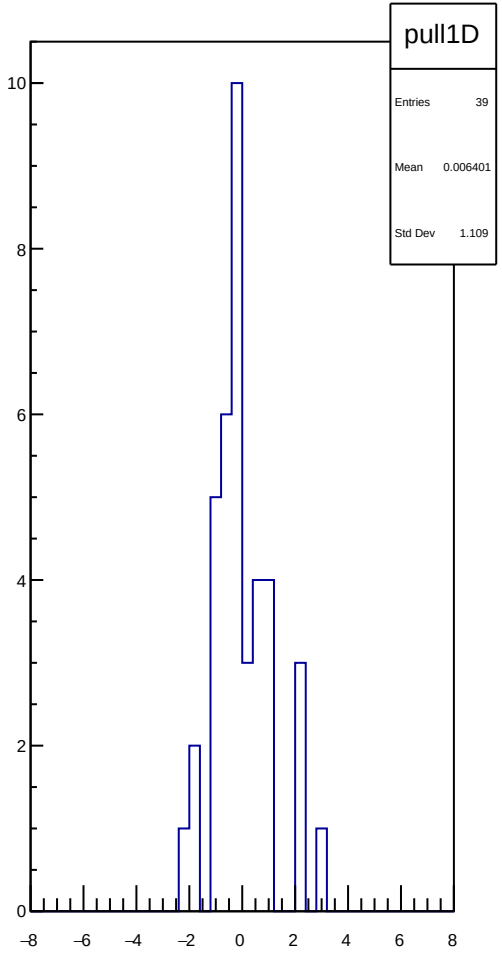

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 35.67 / 38
p0 −287.2 ± 2038
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 9.462
Std Dev 24.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.03137
Std Dev 0.9558
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

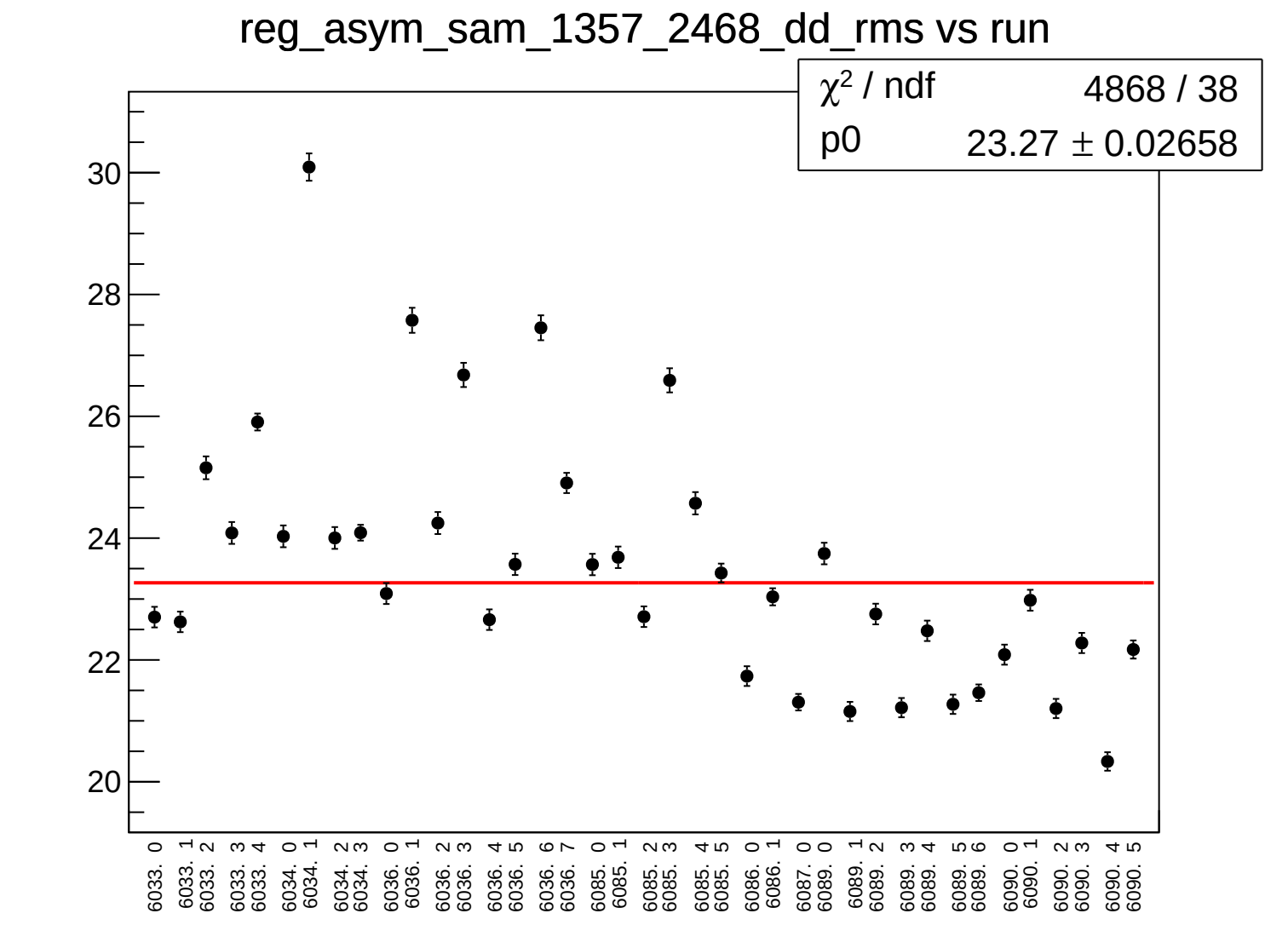

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.833e+04 / 38
p0 1251 ± 1.441
1800
1700
1600
1500
1400
1300
1200
1100
1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

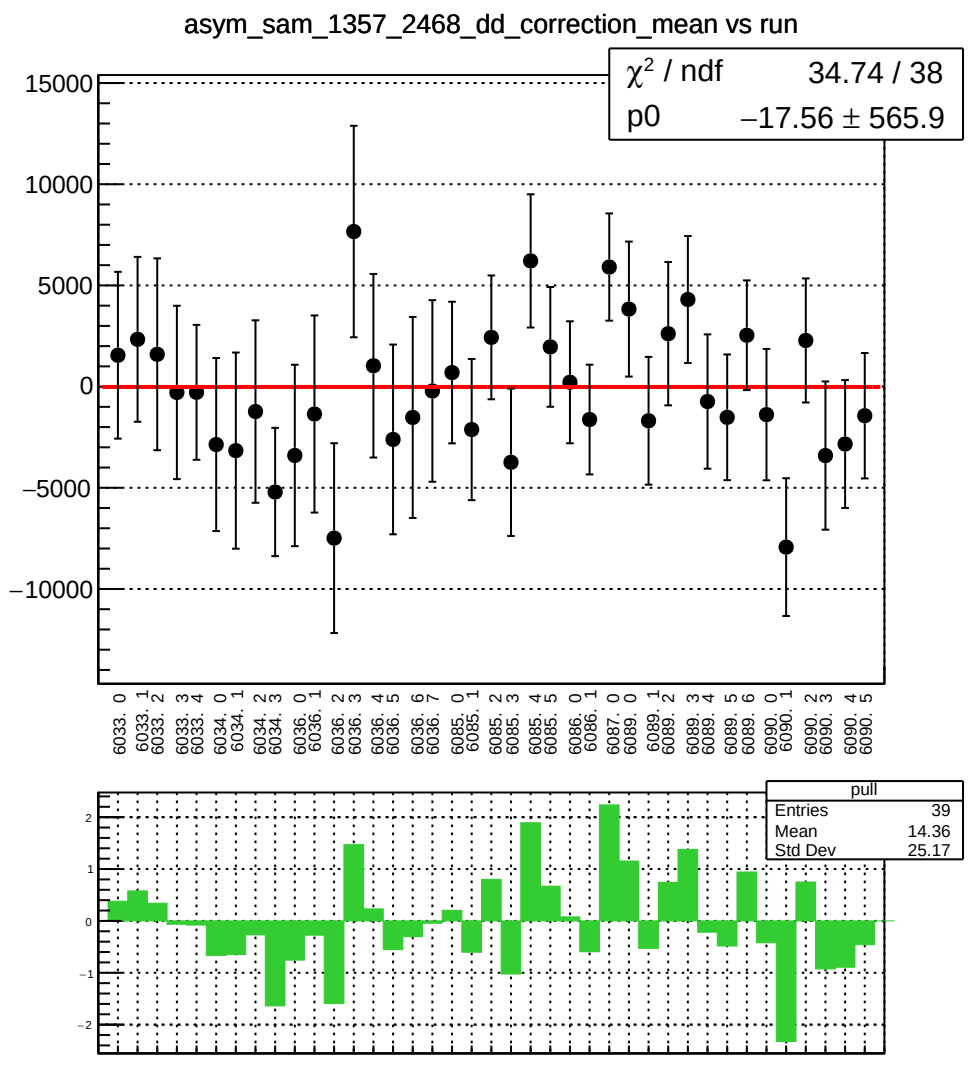

asym_sam_2468_avg_mean vs run
χ² / ndf 35.6 / 38
p0 380.7 ± 2042
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 9.271
Std Dev 23.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean −0.03238
Std Dev 0.9549
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

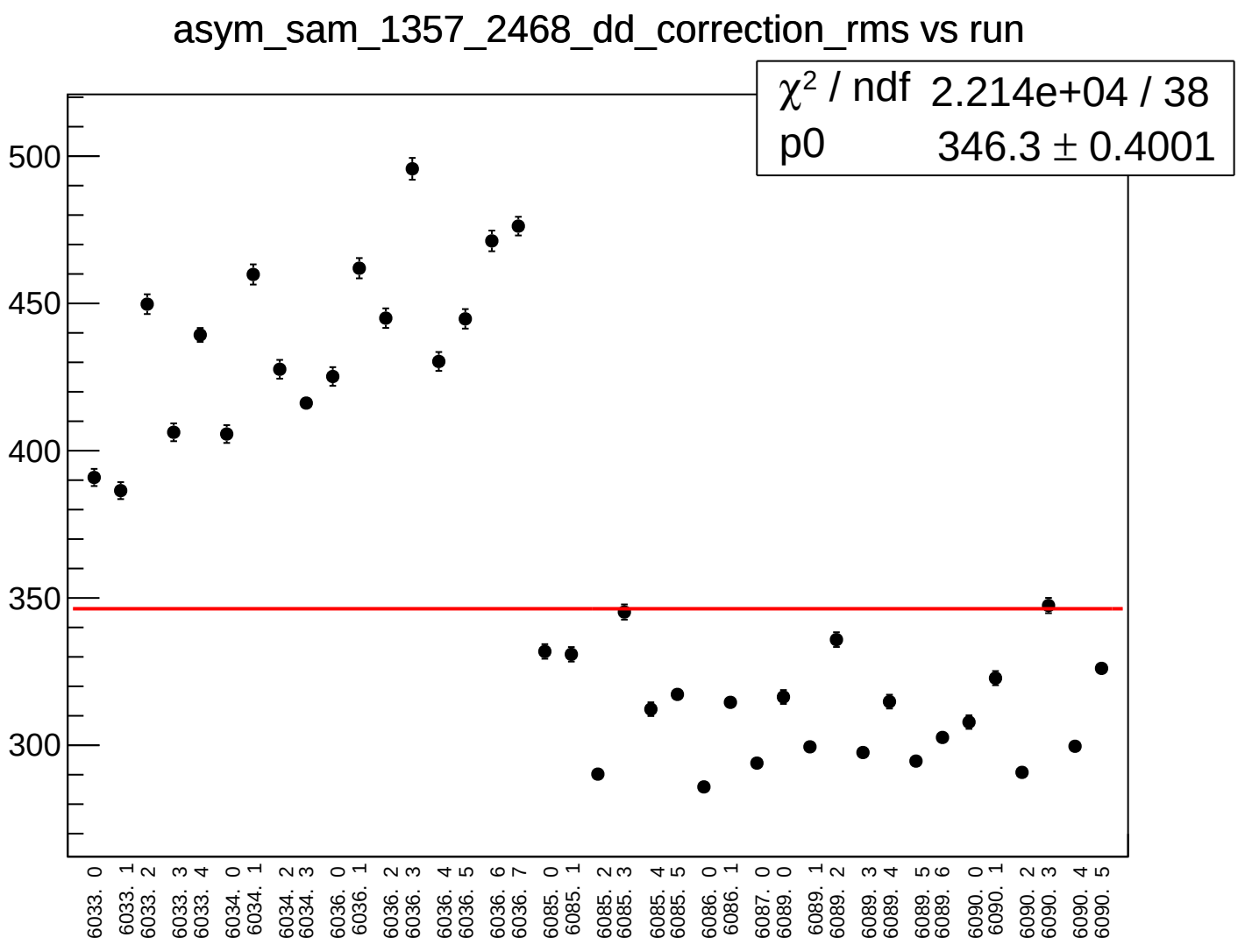

asym_sam_2468_avg_rms vs run
χ² / ndf 1.826e+04 / 38
p0 1253 ± 1.444
1800
1700
1600
1500
1400
1300
1200
1100
1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

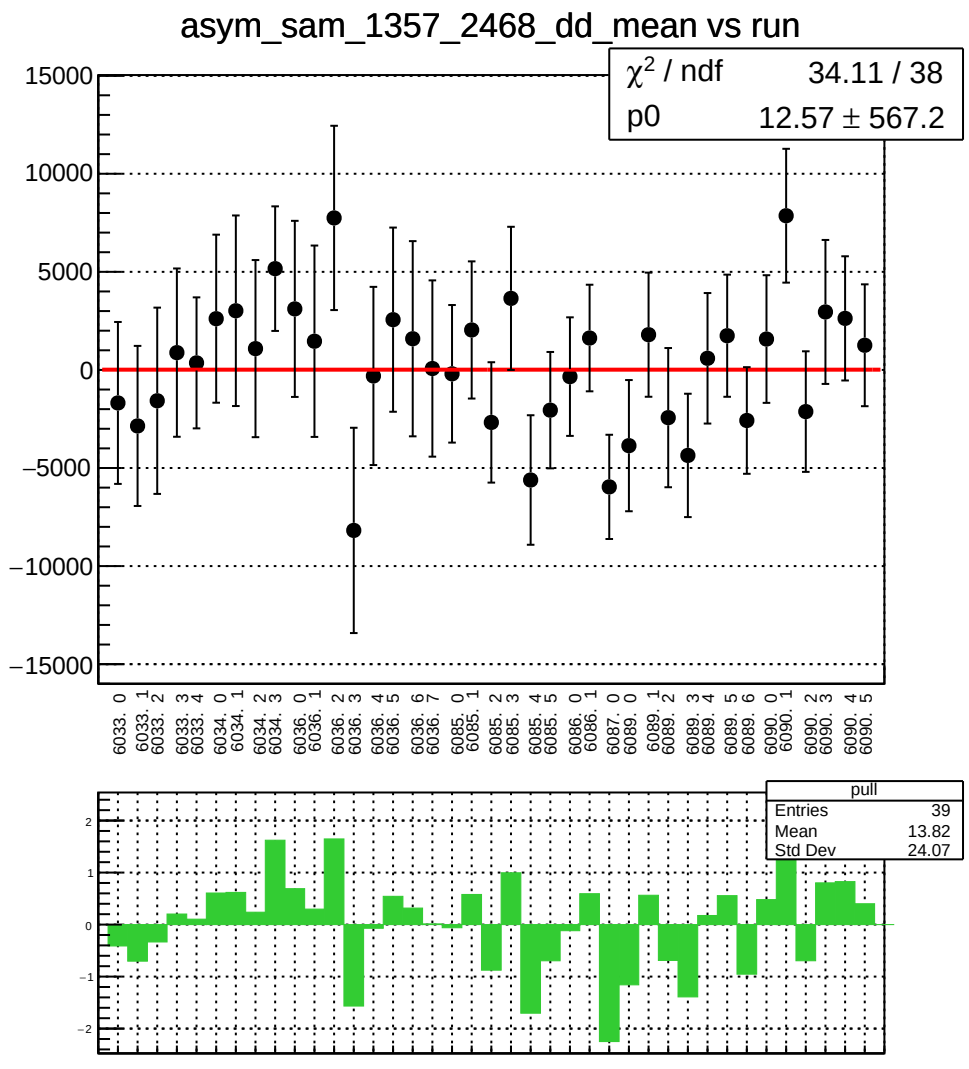

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 47.96 / 38
p0 −10.63 ± 37.58
pull
Entries 39
Mean −22.57
Std Dev 80.74

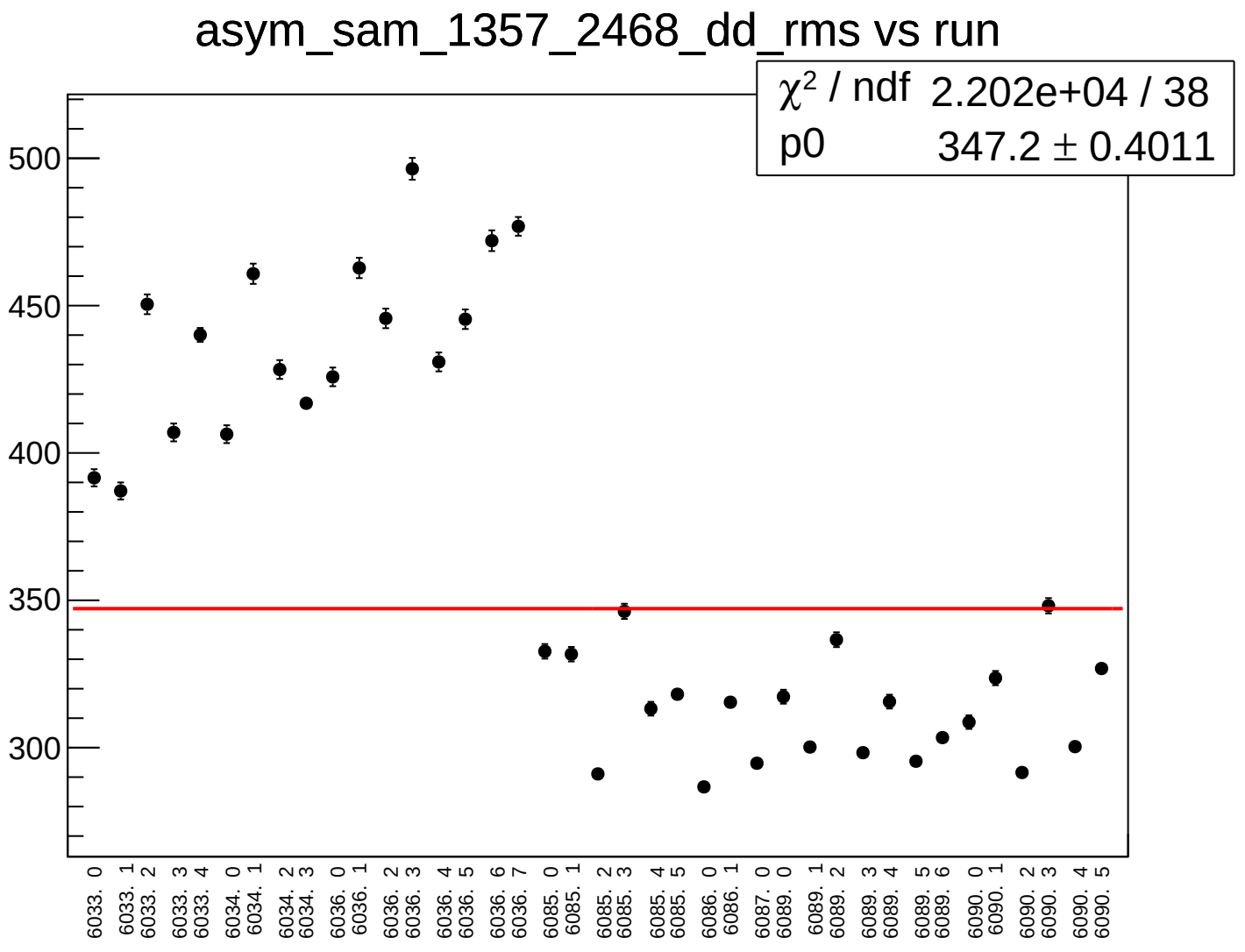

pull1D
Entries 39
Mean 0.006401
Std Dev 1.109

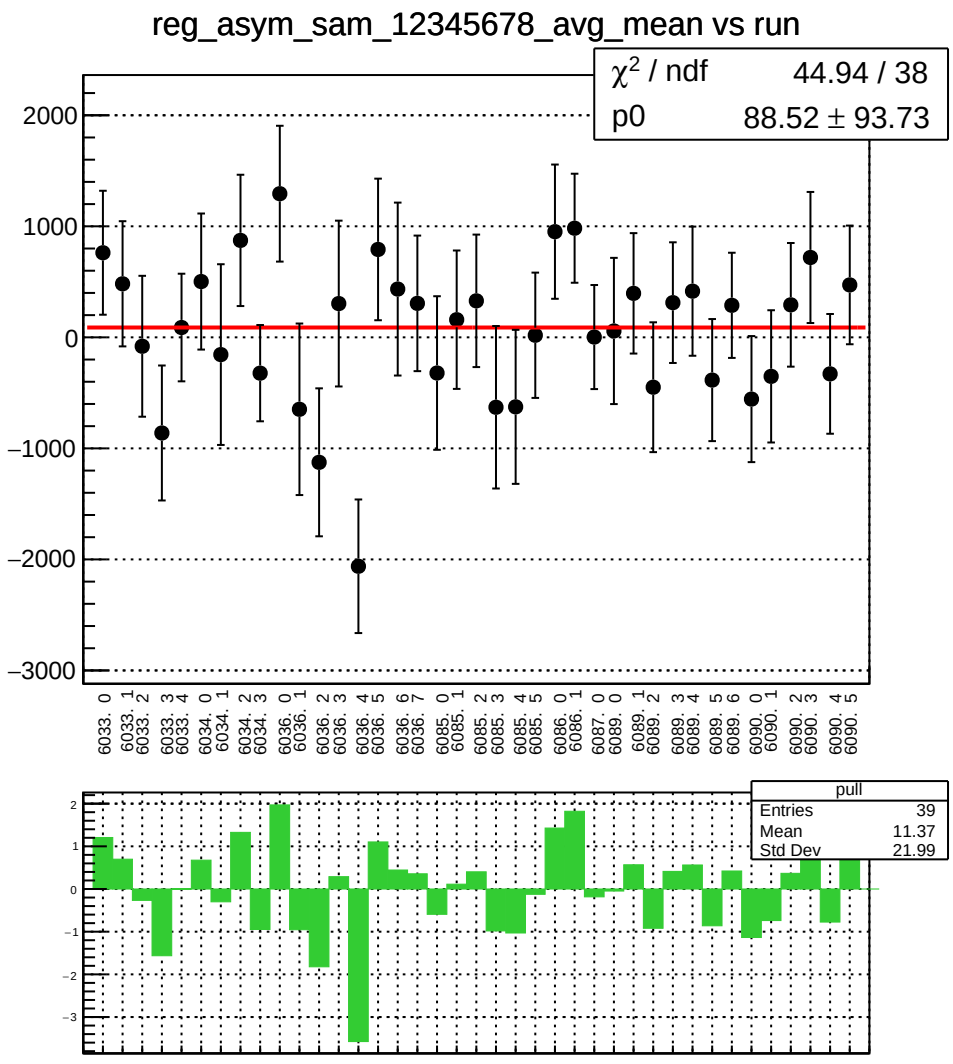

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4868 / 38
p0 23.27 ± 0.02658
30
28
26
24
22
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

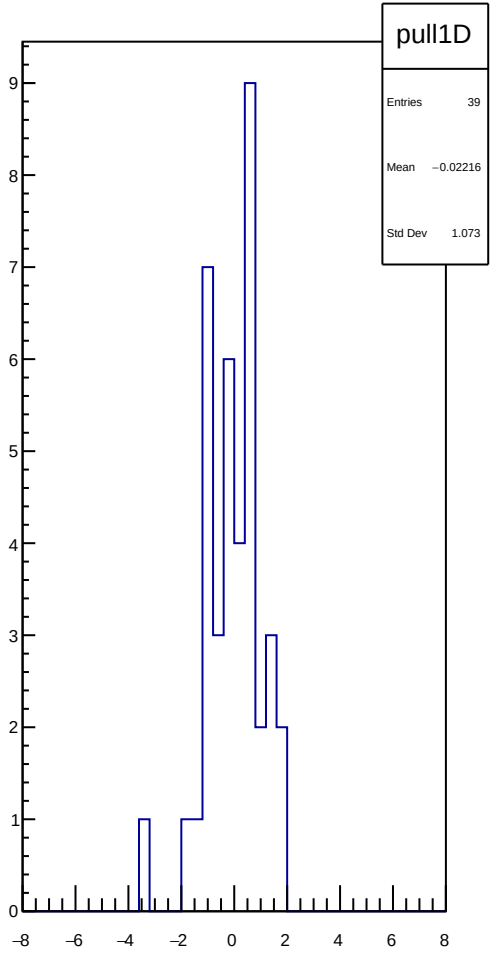

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 34.74 / 38
p0 −17.56 ± 565.9
15000
10000
5000
0
−5000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 14.36
Std Dev 25.17
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.03882
Std Dev 0.9431
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

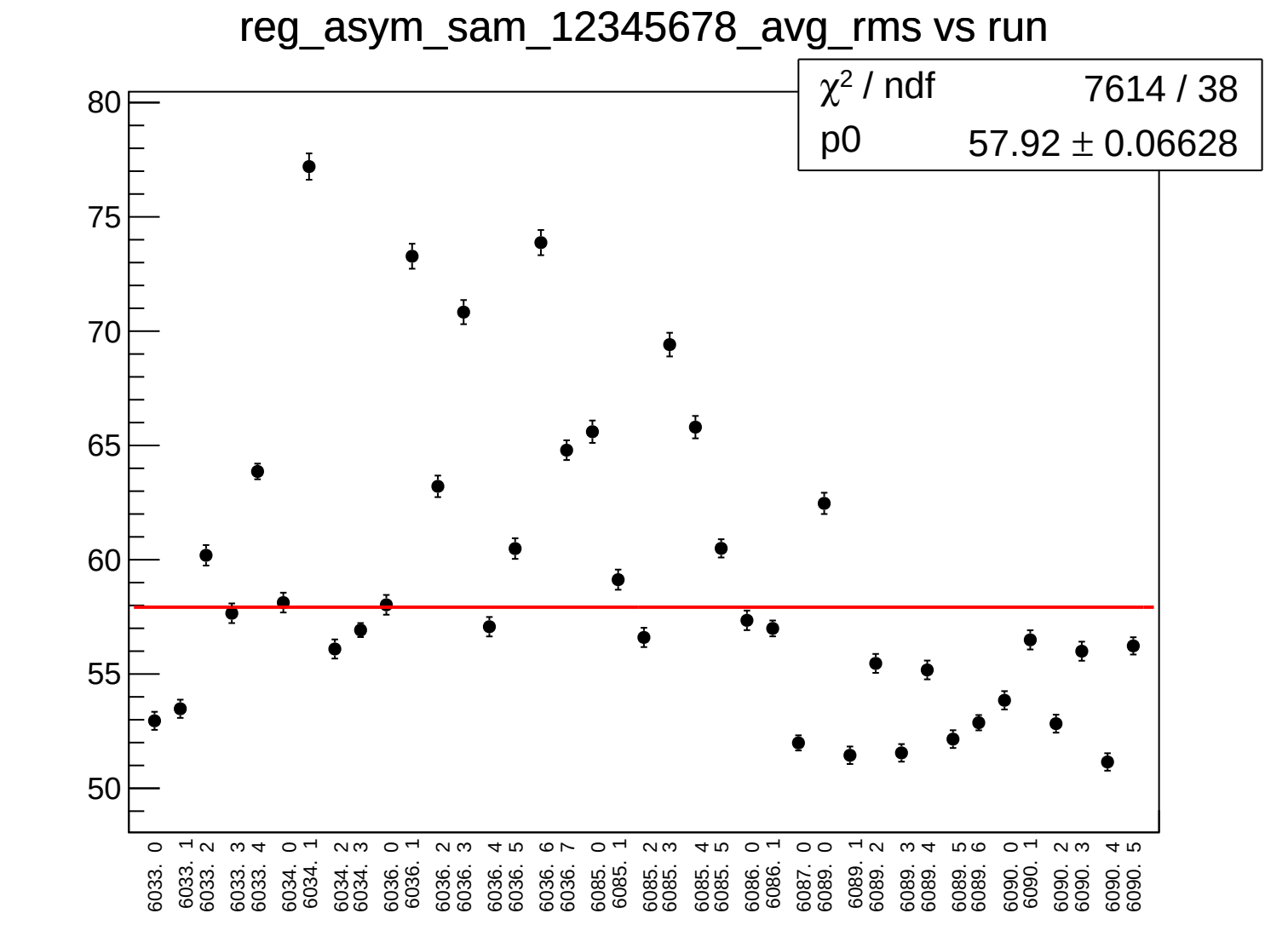

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2.214e+04 / 38
p0 346.3 ± 0.4001
500
450
400
350
300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

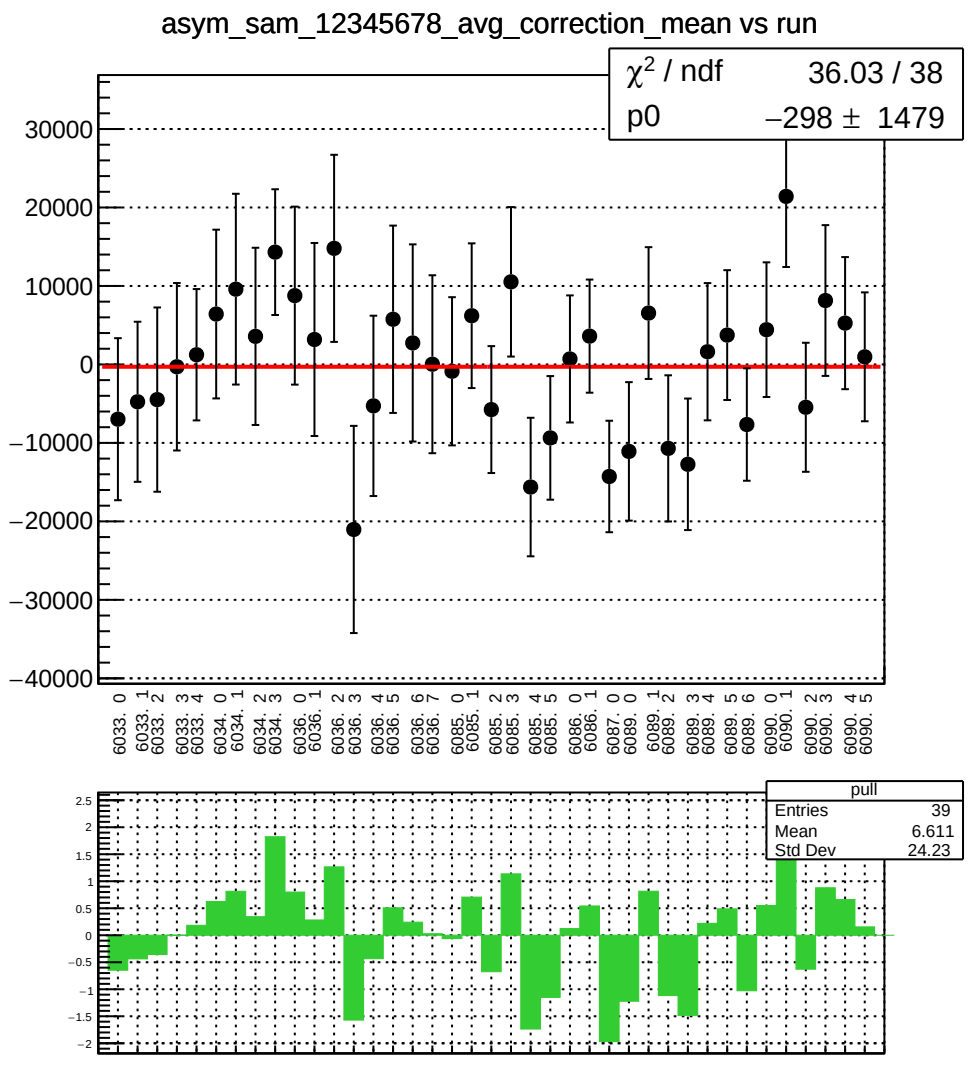

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 34.11 / 38
p0 12.57 ± 567.2
15000
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 13.82
Std Dev 24.07
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03844
Std Dev 0.9344
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

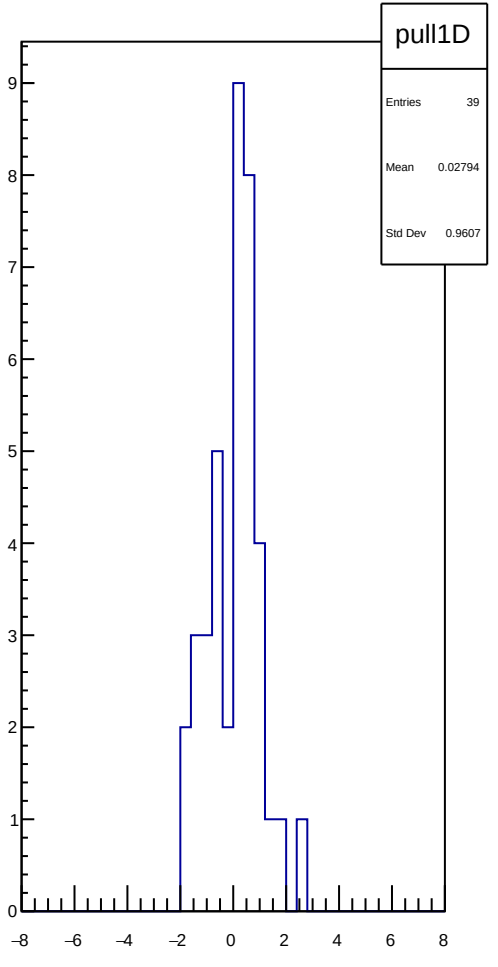

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.202e+04 / 38
p0 347.2 ± 0.4011
500
450
400
350
300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

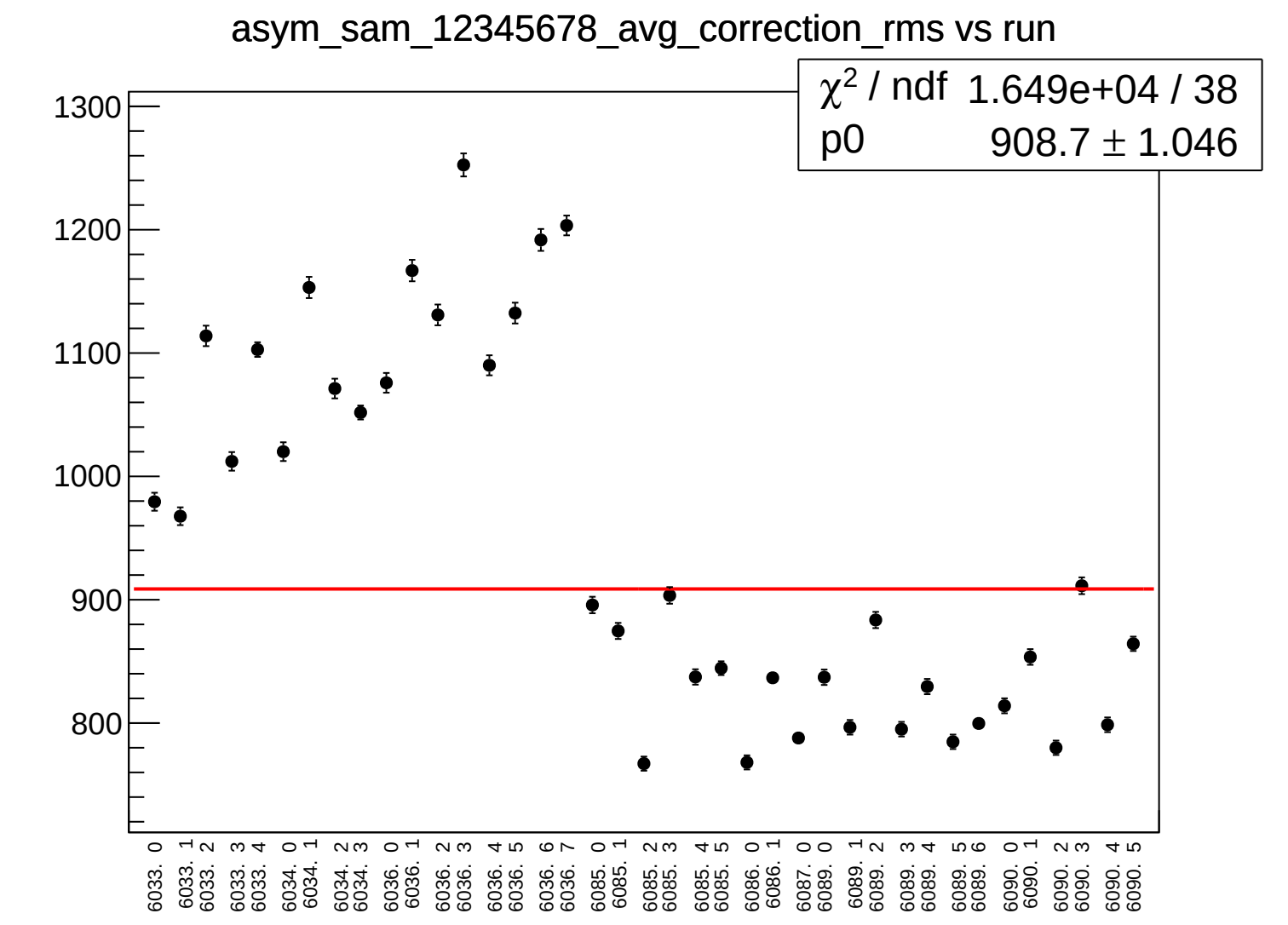

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 44.94 / 38
p0 88.52 ± 93.73
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.37
Std Dev 21.99
2
1
0
−1
−2
−3

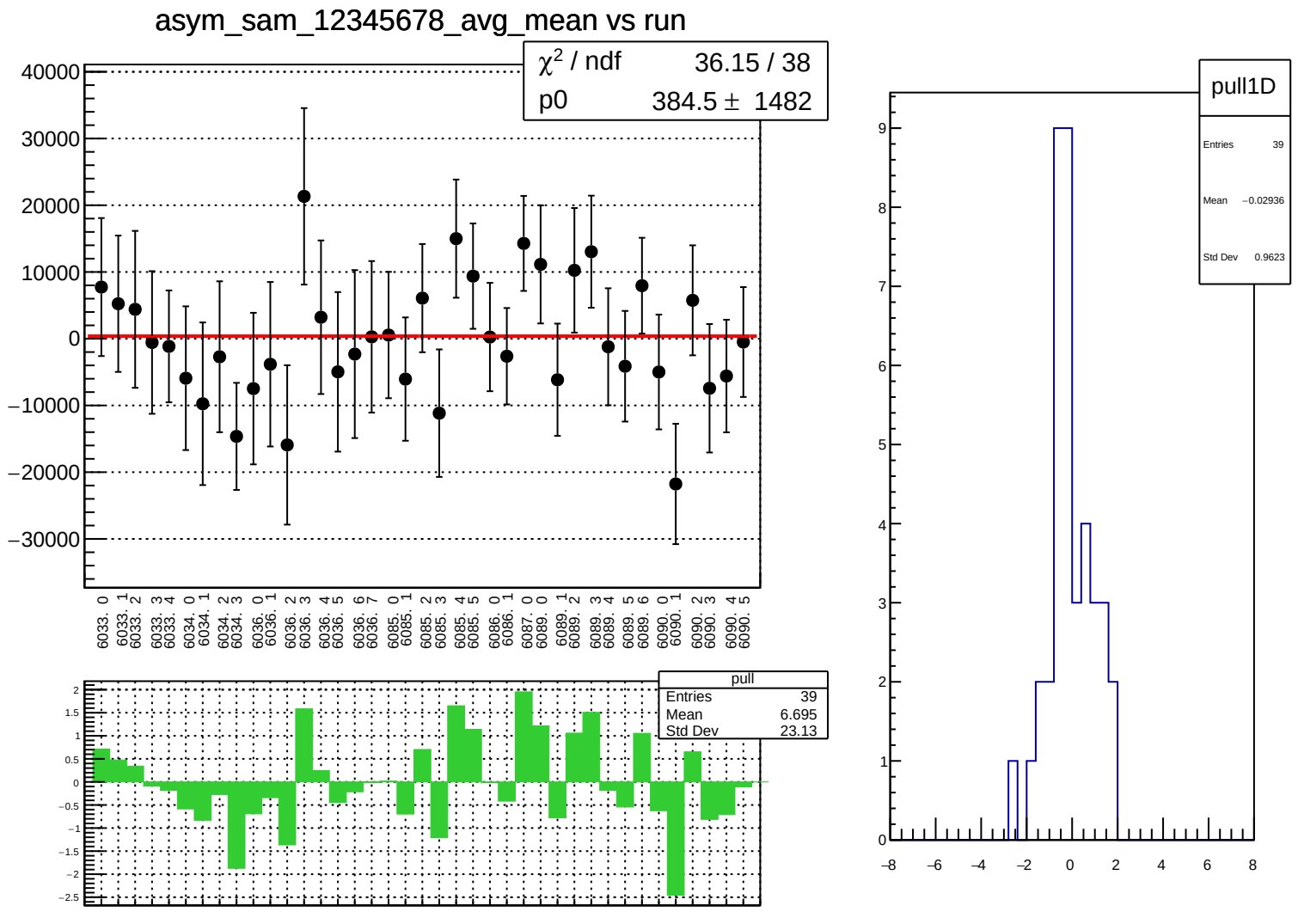

pull1D
Entries 39
Mean −0.02216
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

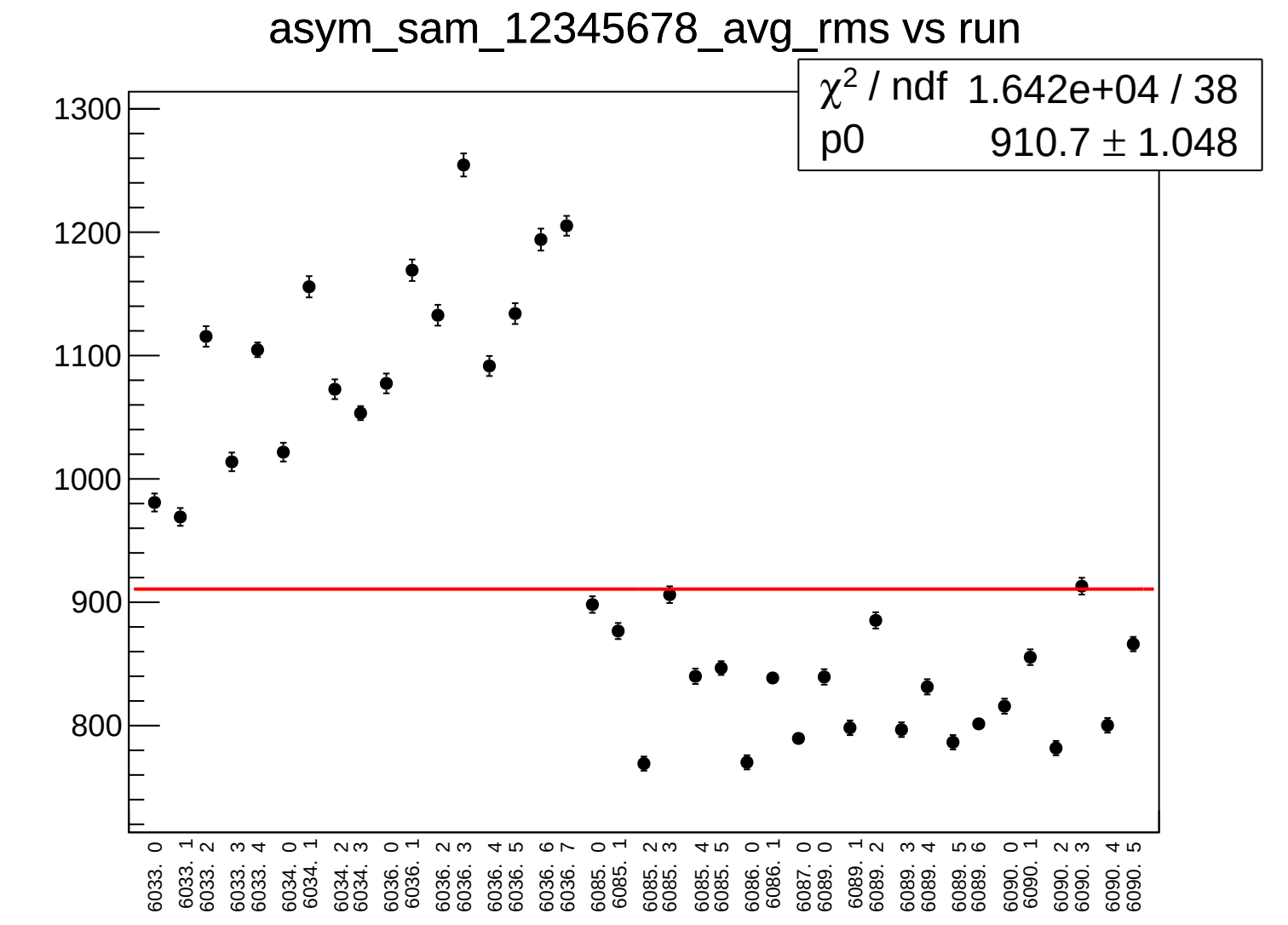

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 7614 / 38
p0 57.92 ± 0.06628
80
75
70
65
60
55
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

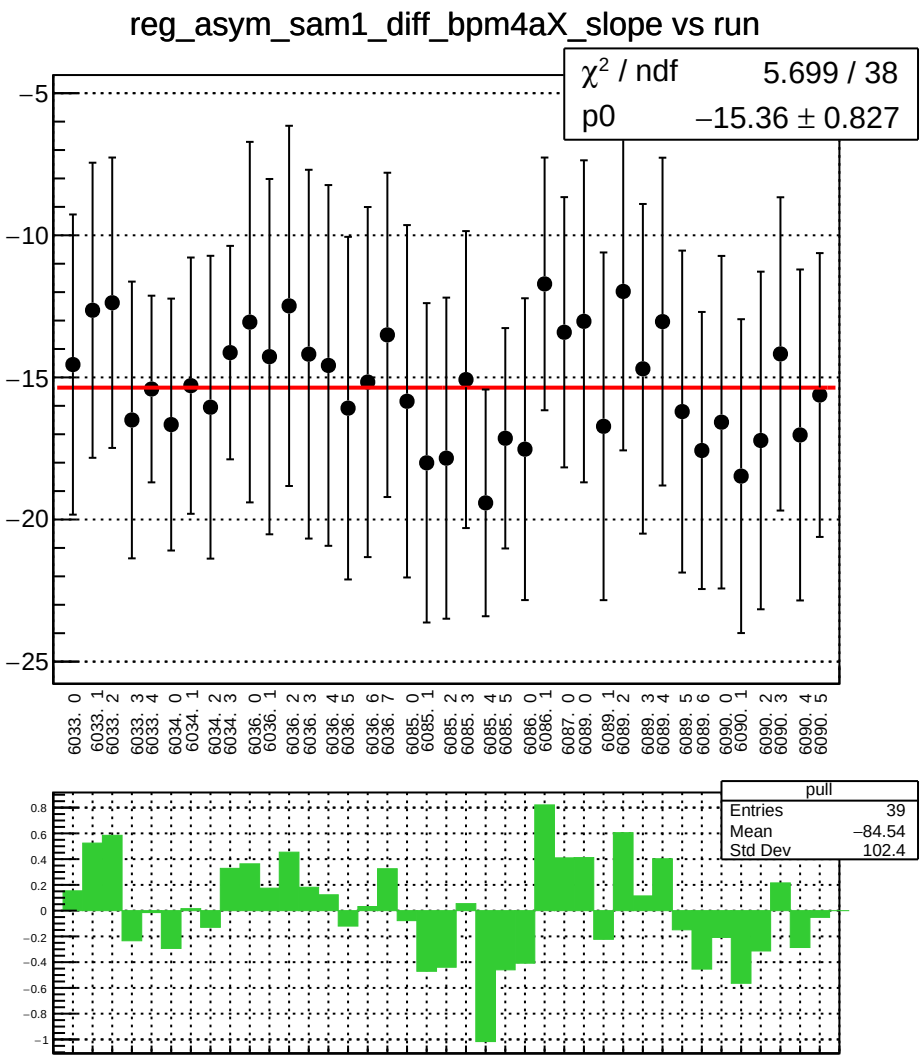

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 36.03 / 38
p0 −298 ± 1479
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 6.611
Std Dev 24.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

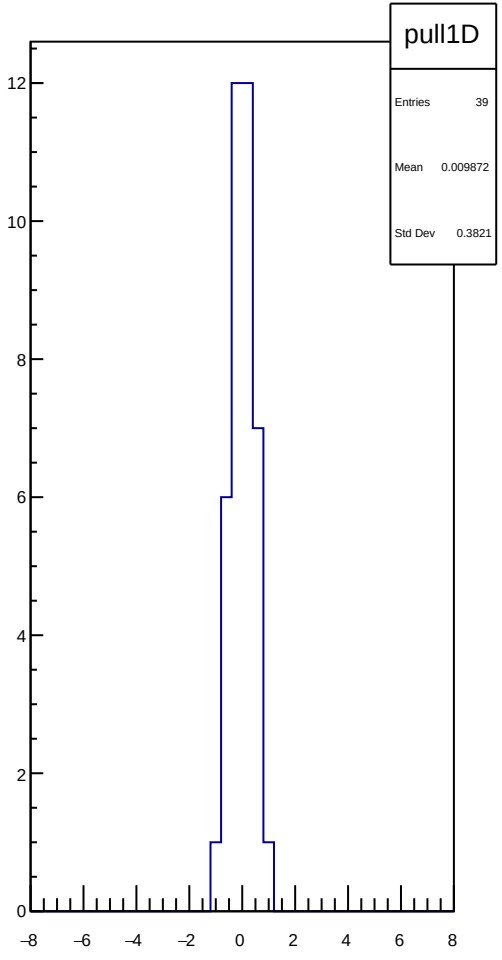

pull1D
Entries 39
Mean 0.02794
Std Dev 0.9607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

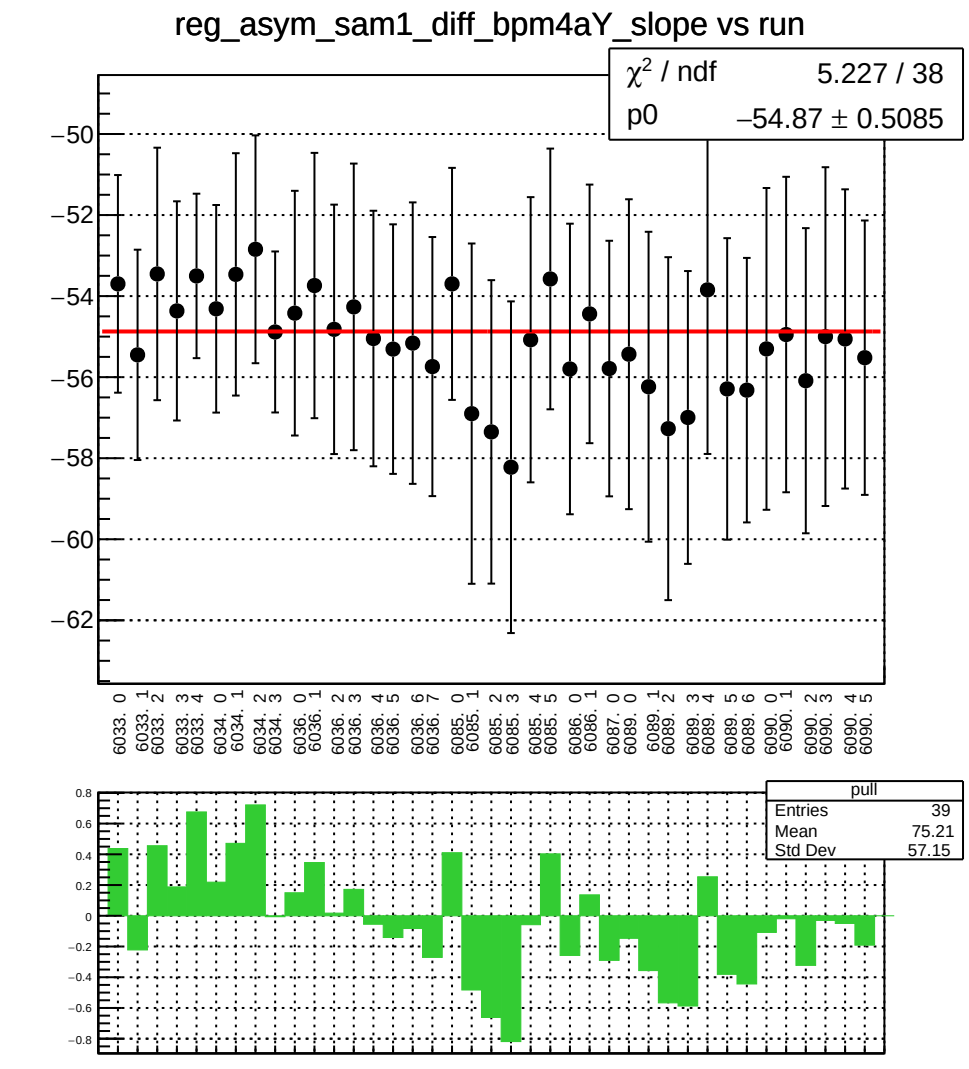

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.649e+04 / 38
p0 908.7 ± 1.046
1300
1200
1100
1000
900
800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

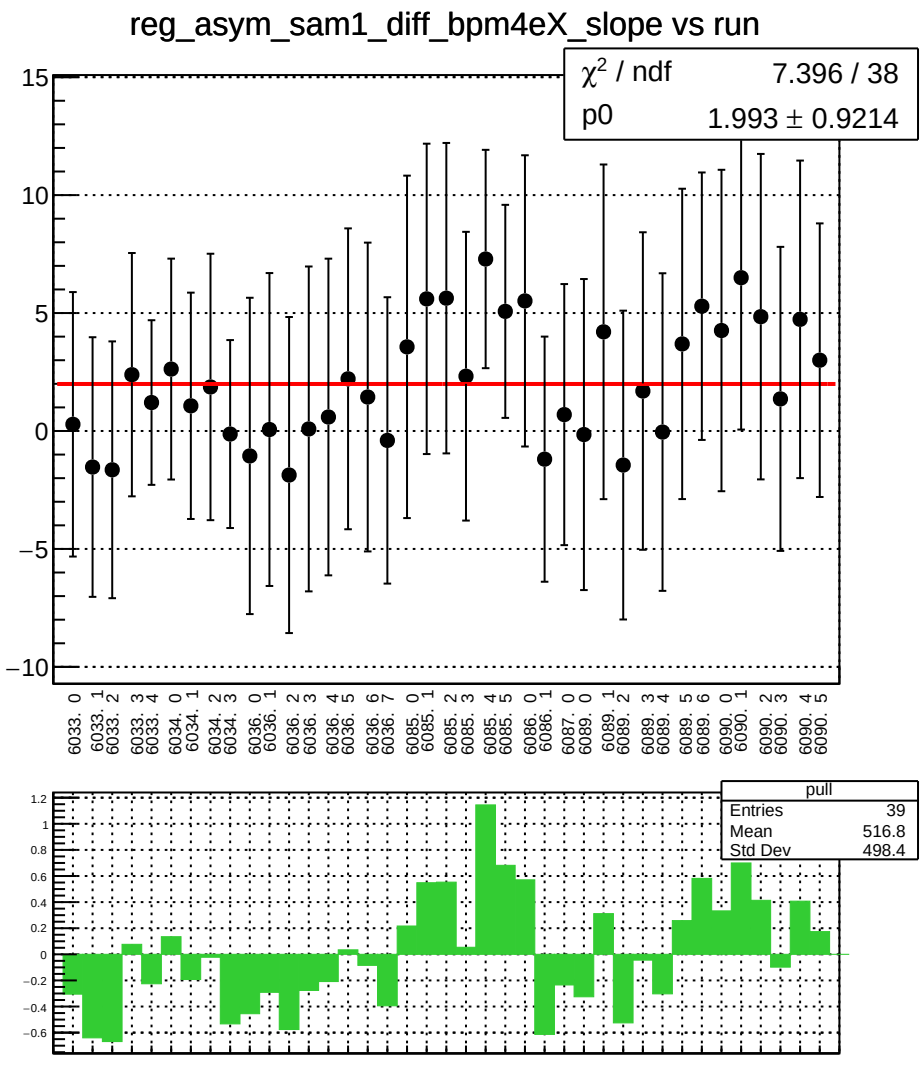

asym_sam_12345678_avg_mean vs run
χ² / ndf 36.15 / 38
p0 384.5 ± 1482
pull
Entries 39
Mean 6.695
Std Dev 23.13
pull1D
Entries 39
Mean −0.02936
Std Dev 0.9623

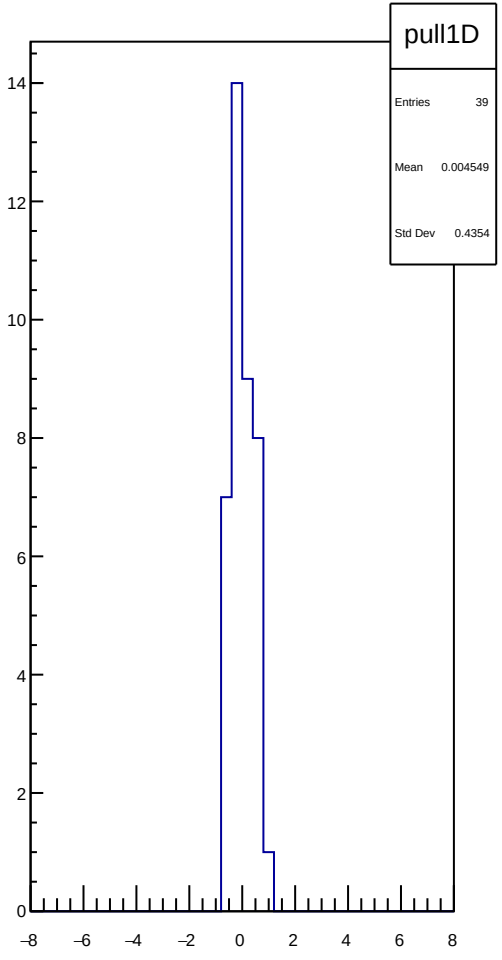

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.642e+04 / 38
p0 910.7 ± 1.048
1300
1200
1100
1000
900
800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

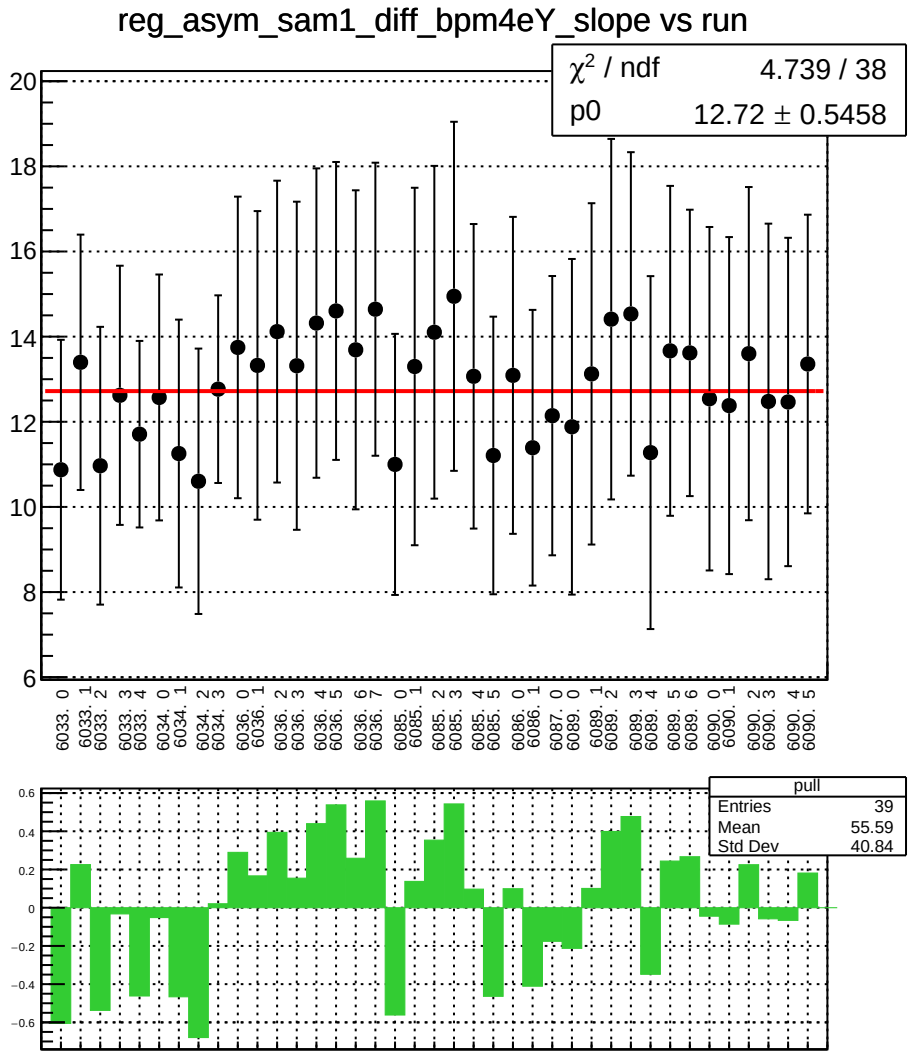

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 5.699 / 38
p0 −15.36 ± 0.827
pull
Entries 39
Mean −84.54
Std Dev 102.4

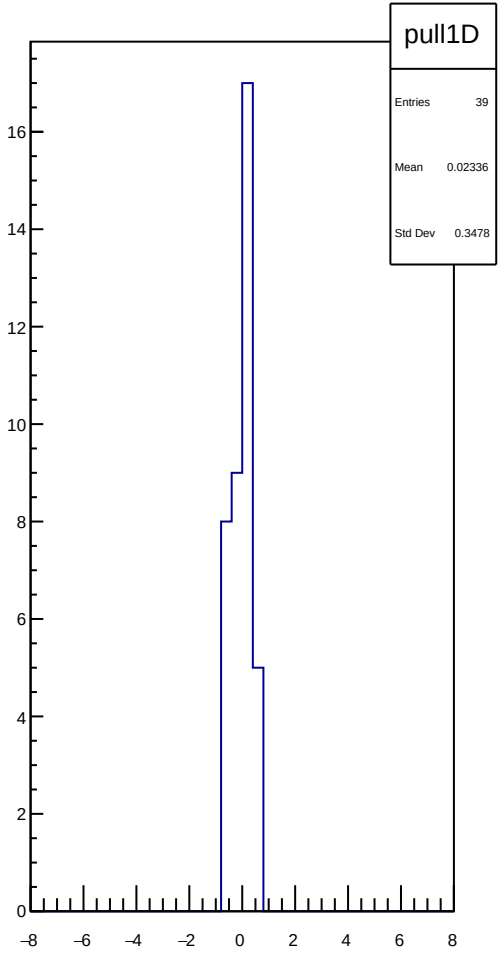

pull1D
Entries 39
Mean 0.009872
Std Dev 0.3821

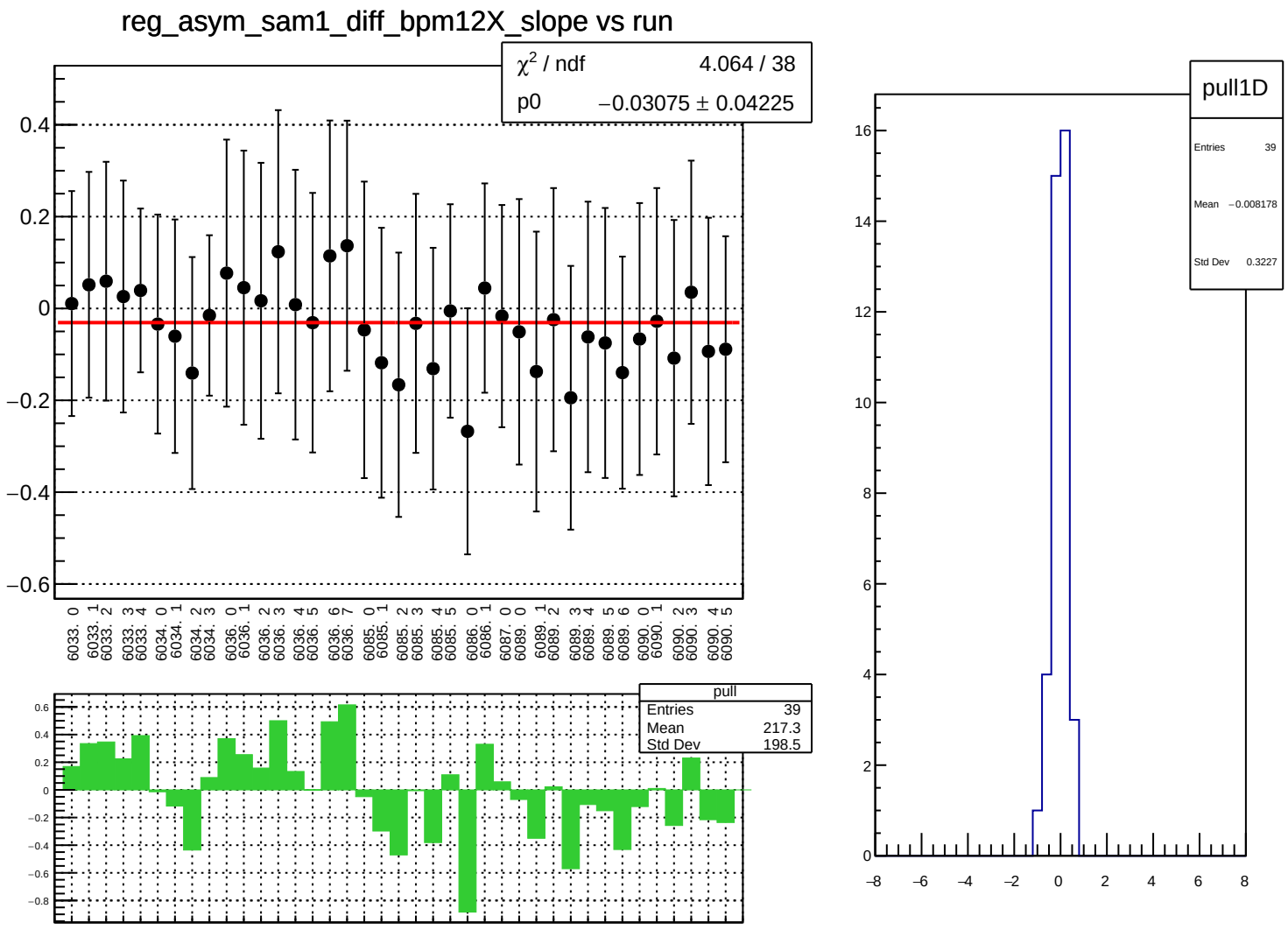

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 5.227 / 38
p0 −54.87 ± 0.5085
−50
−52
−54
−56
−58
−60
−62
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 75.21
Std Dev 57.15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 39
Mean −0.03835
Std Dev 0.3641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

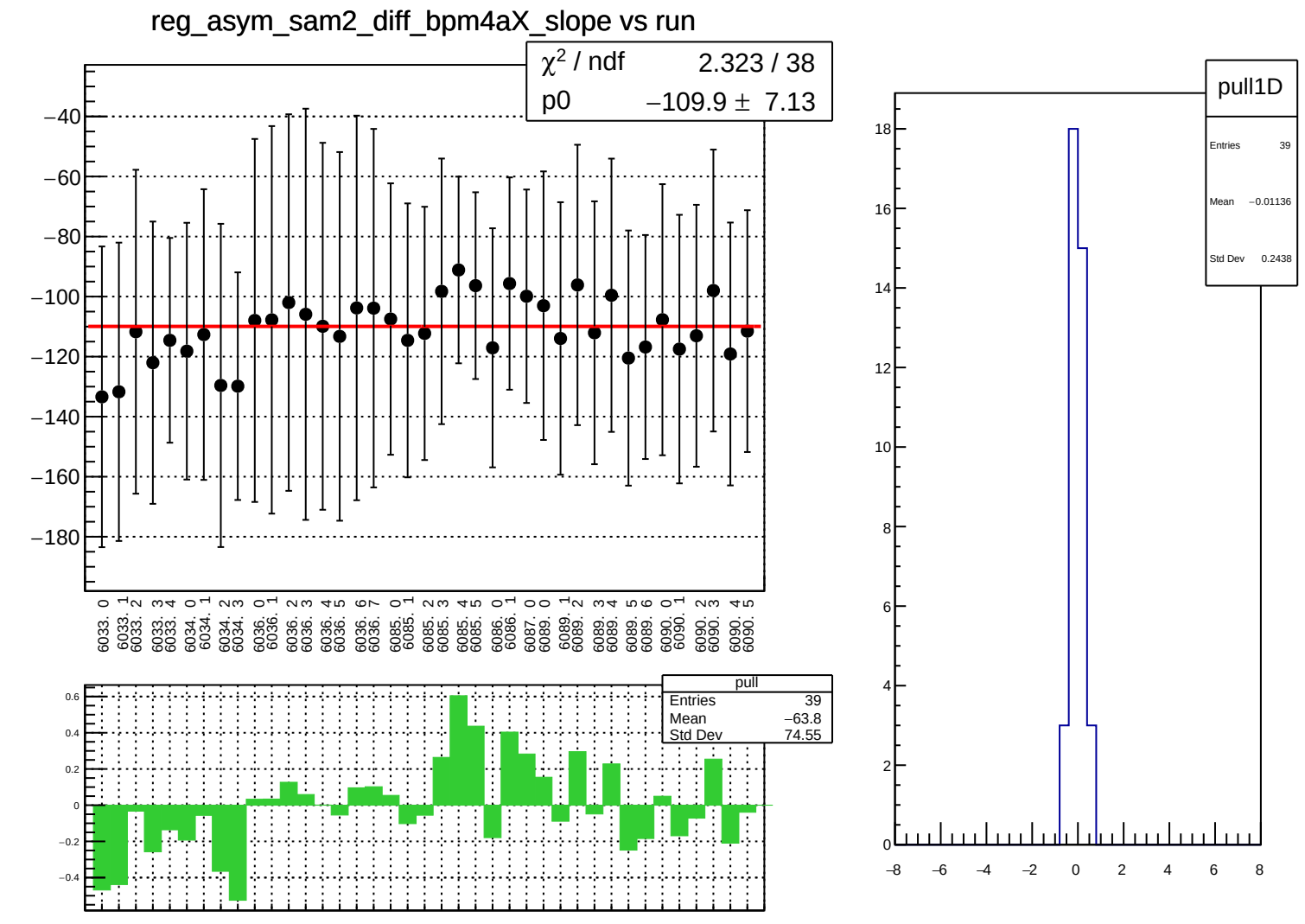

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 7.396 / 38
p0 1.993 ± 0.9214
pull
Entries 39
Mean 516.8
Std Dev 498.4

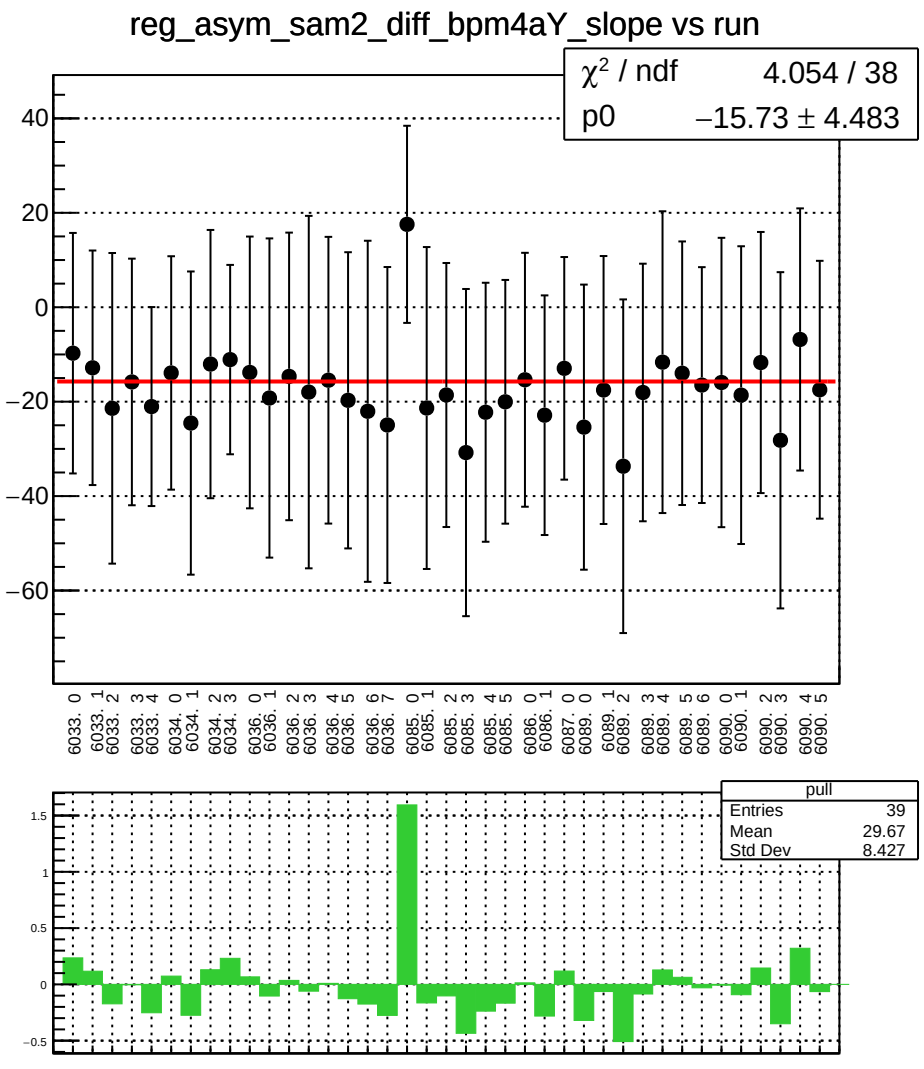

pull1D
Entries 39
Mean 0.004549
Std Dev 0.4354

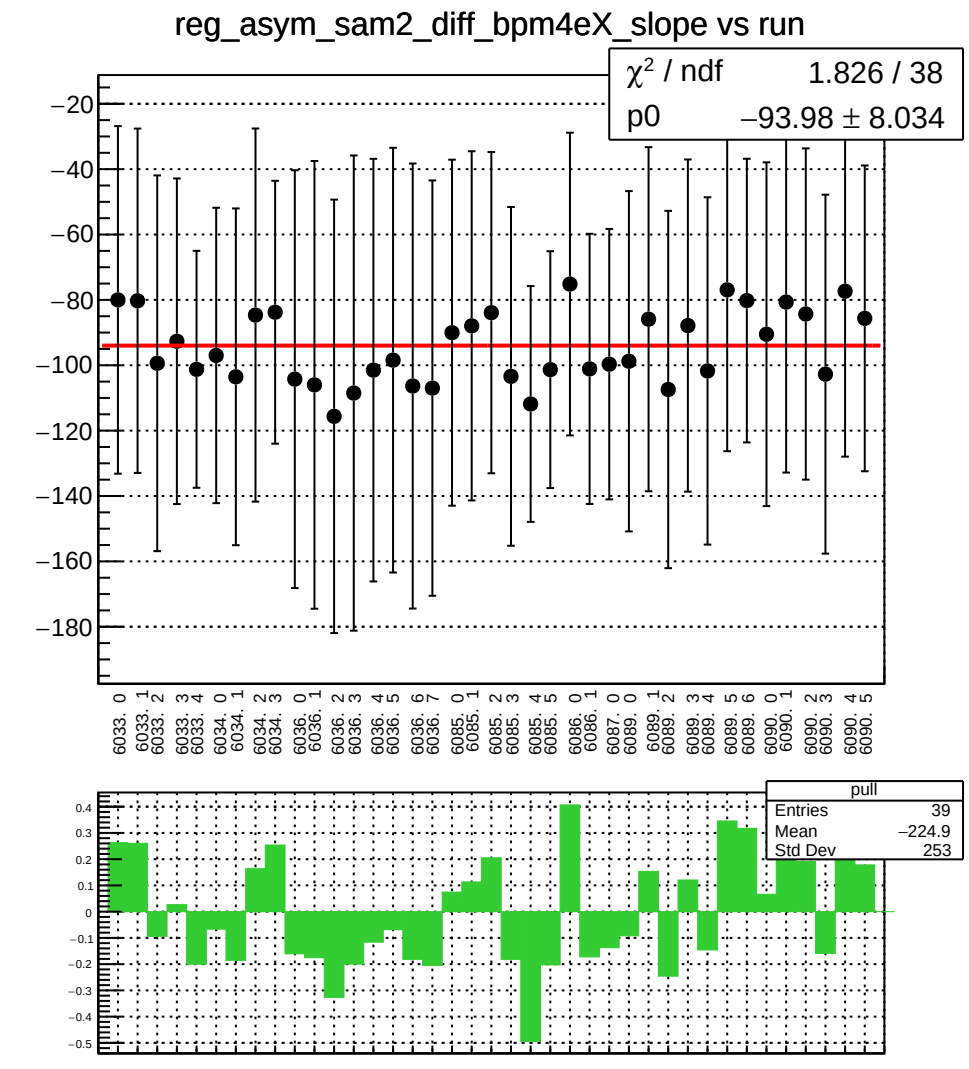

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 4.739 / 38
p0 12.72 ± 0.5458
pull
Entries 39
Mean 55.59
Std Dev 40.84

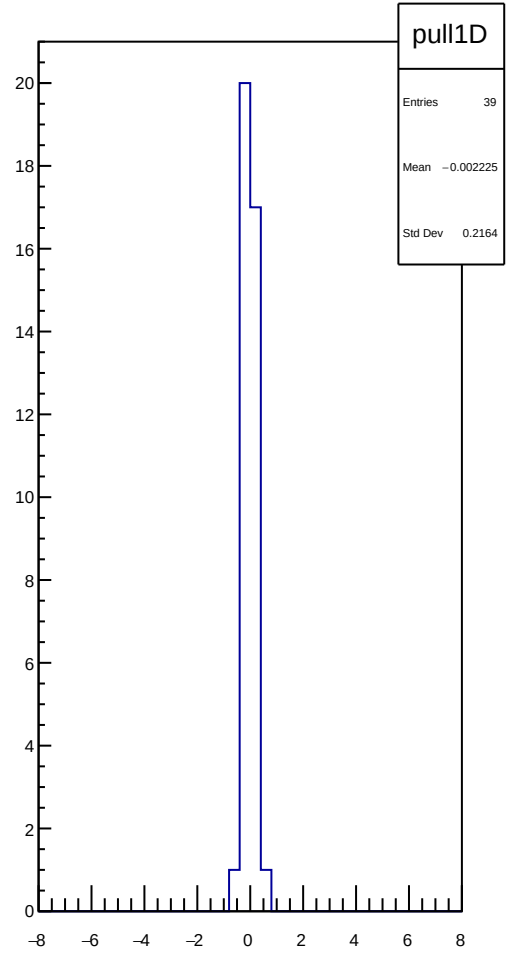

pull1D
Entries 39
Mean 0.02336
Std Dev 0.3478

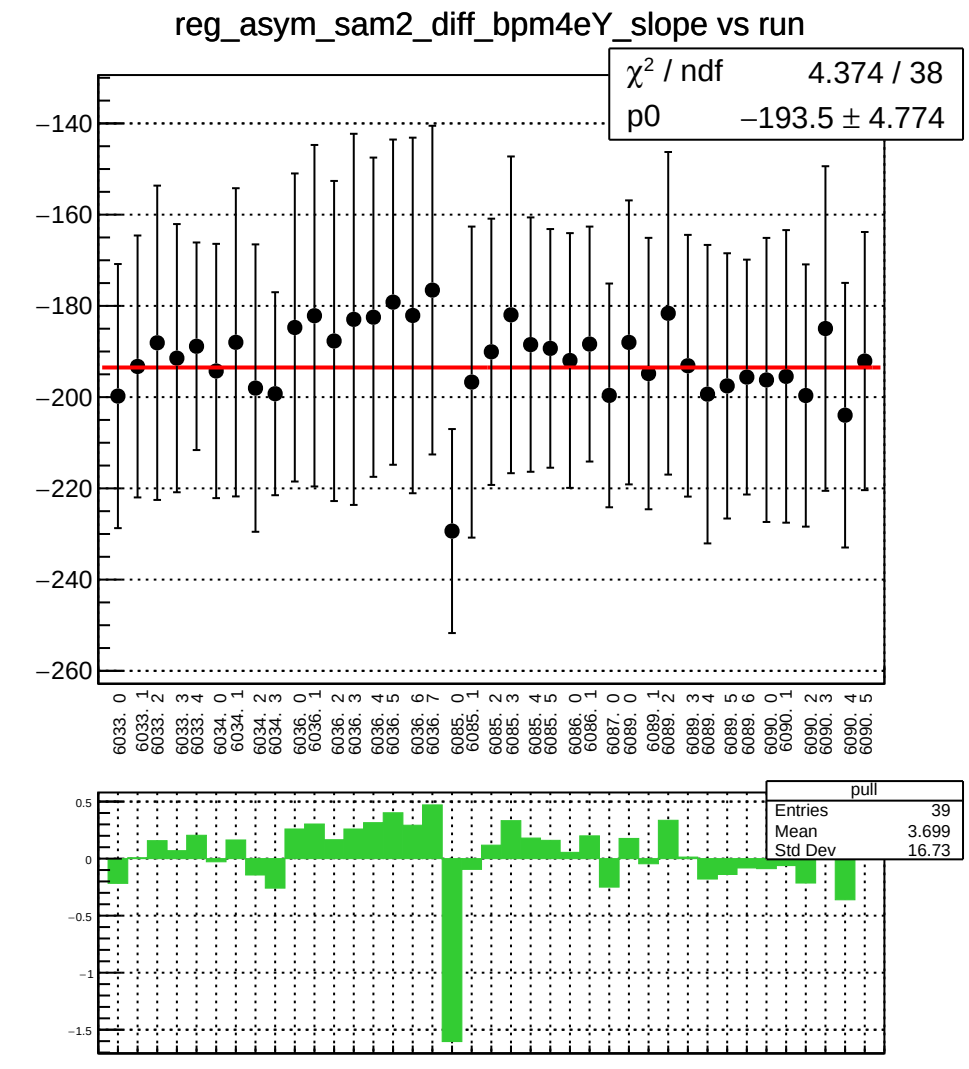

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 4.064 / 38
p0 −0.03075 ± 0.04225
pull
Entries 39
Mean 217.3
Std Dev 198.5
pull1D
Entries 39
Mean −0.008178
Std Dev 0.3227

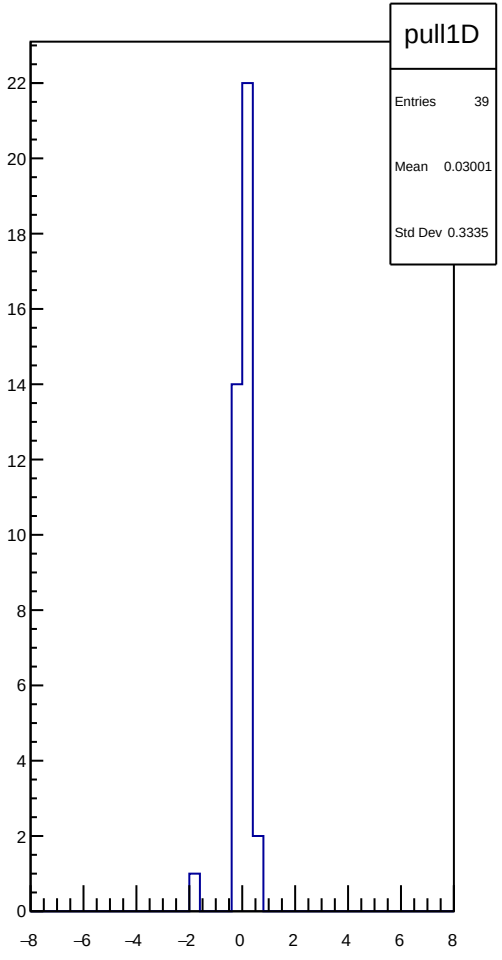

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 2.323 / 38
p0 −109.9 ± 7.13
−40
−60
−80
−100
−120
−140
−160
−180
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −63.8
Std Dev 74.55
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean −0.01136
Std Dev 0.2438
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

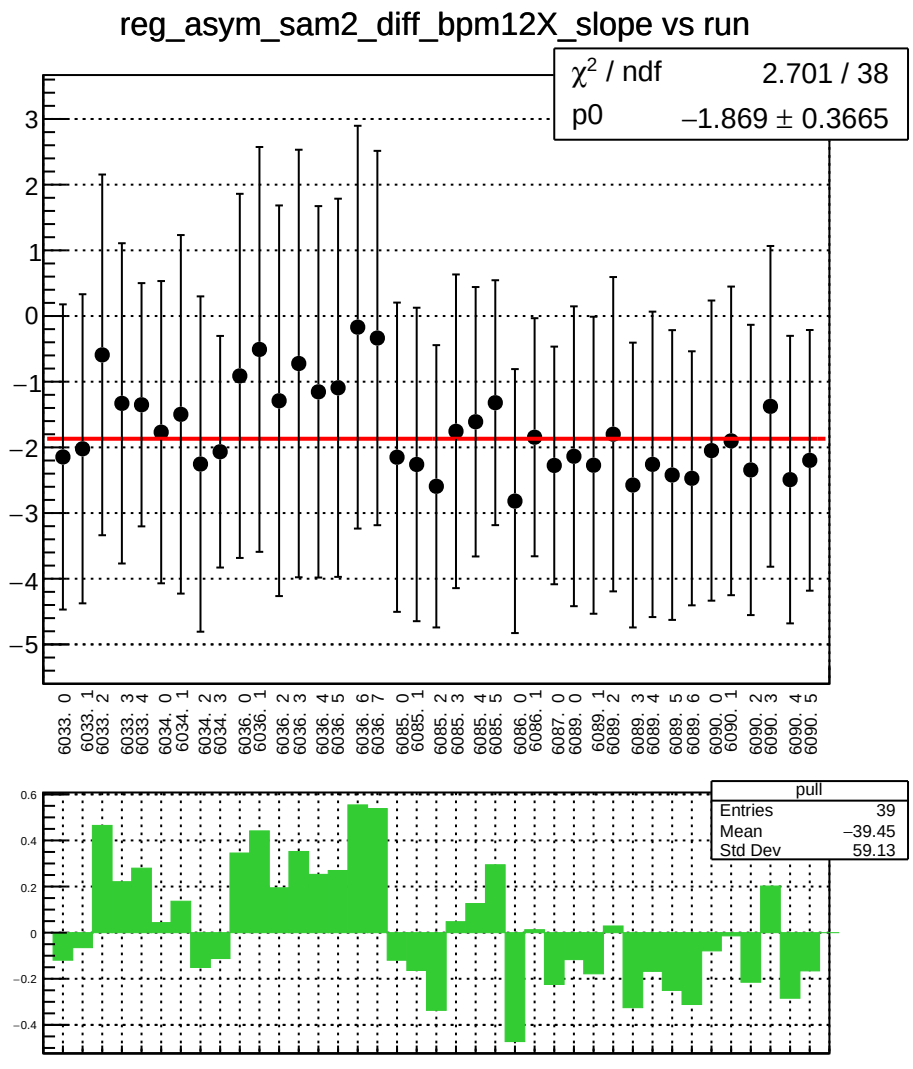

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.054 / 38
p0 −15.73 ± 4.483
40
20
0
−20
−40
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 29.67
Std Dev 8.427
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.0274
Std Dev 0.3212
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

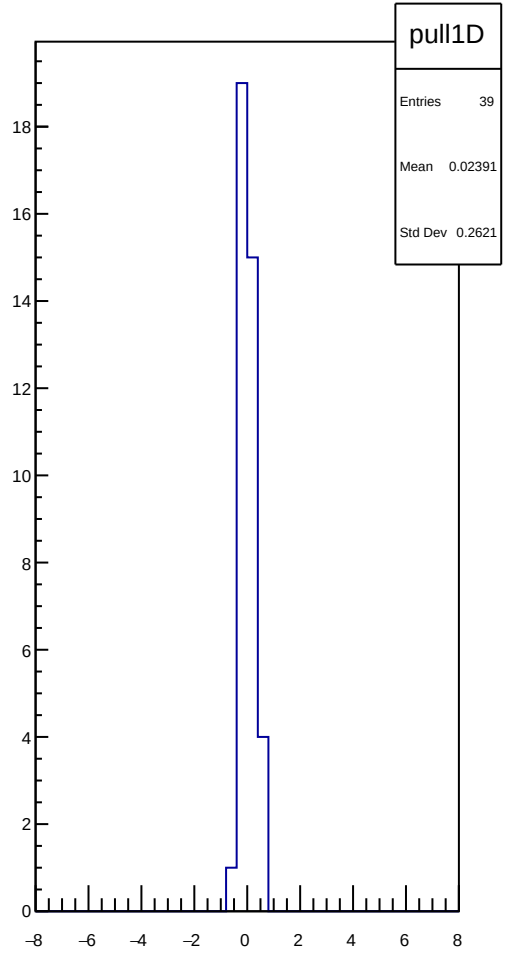

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.826 / 38
p0 −93.98 ± 8.034
pull
Entries 39
Mean −224.9
Std Dev 253

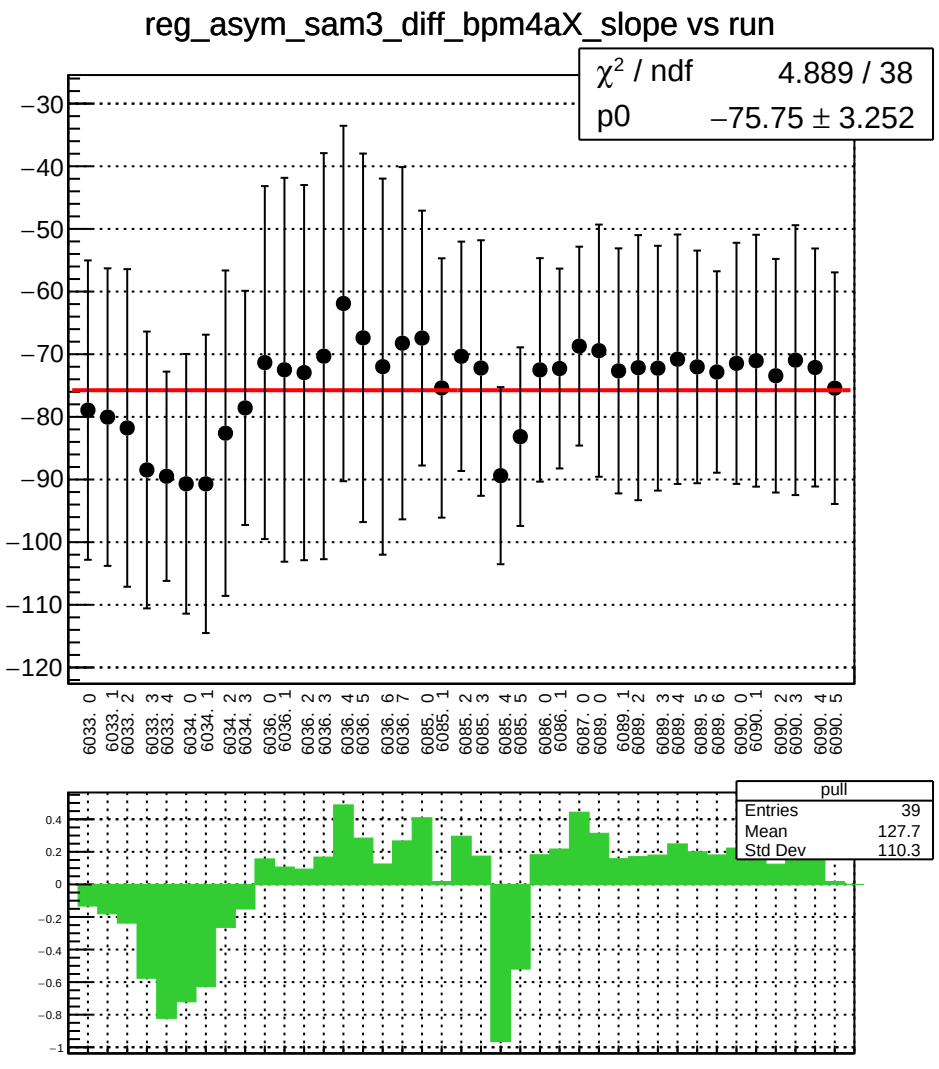

pull1D
Entries 39
Mean −0.002225
Std Dev 0.2164

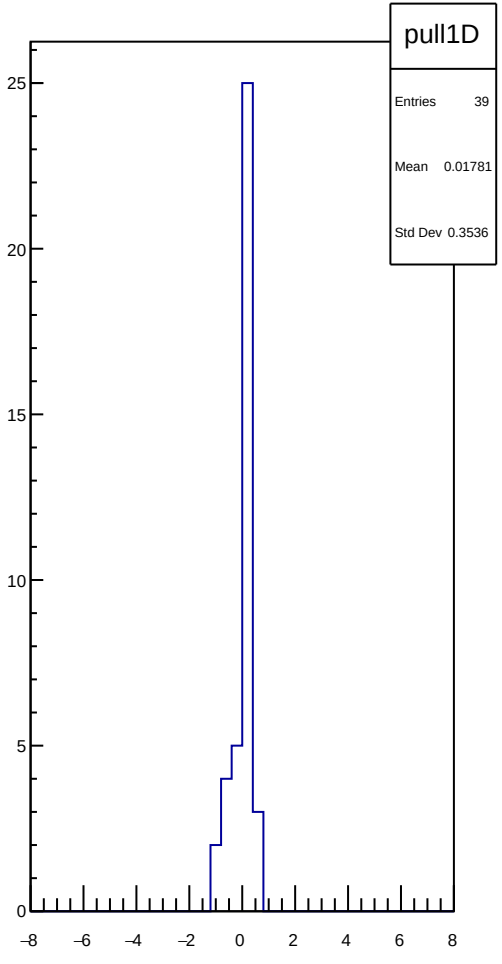

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.374 / 38
p0 −193.5 ± 4.774
−140
−160
−180
−200
−220
−240
−260
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.699
Std Dev 16.73
0.5
0
−0.5
−1
−1.5

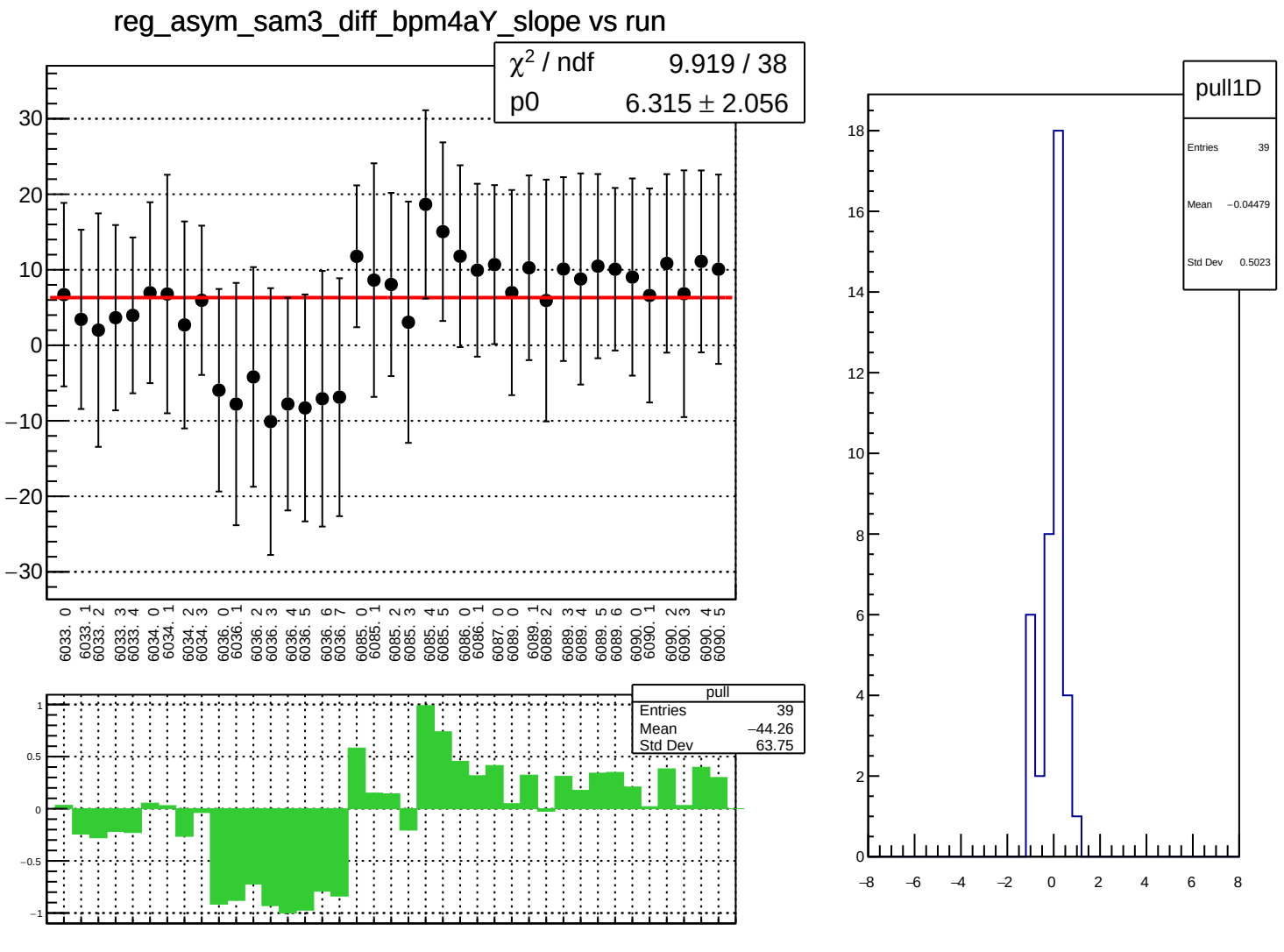

pull1D
Entries 39
Mean 0.03001
Std Dev 0.3335
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

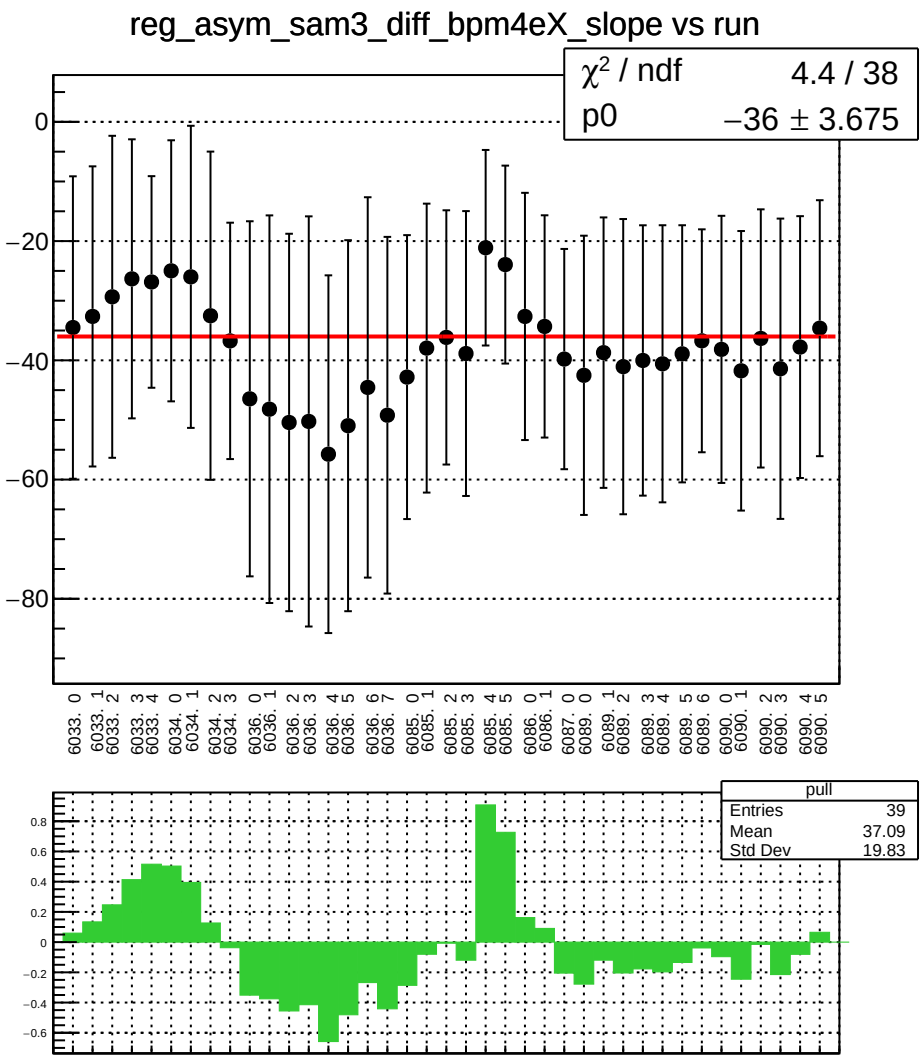

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.701 / 38
p0 −1.869 ± 0.3665
pull
Entries 39
Mean −39.45
Std Dev 59.13

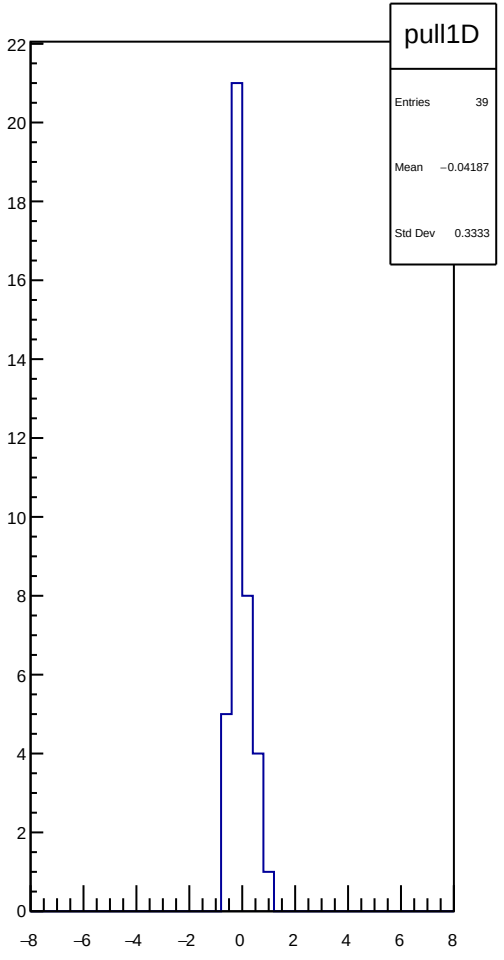

pull1D
Entries 39
Mean 0.02391
Std Dev 0.2621

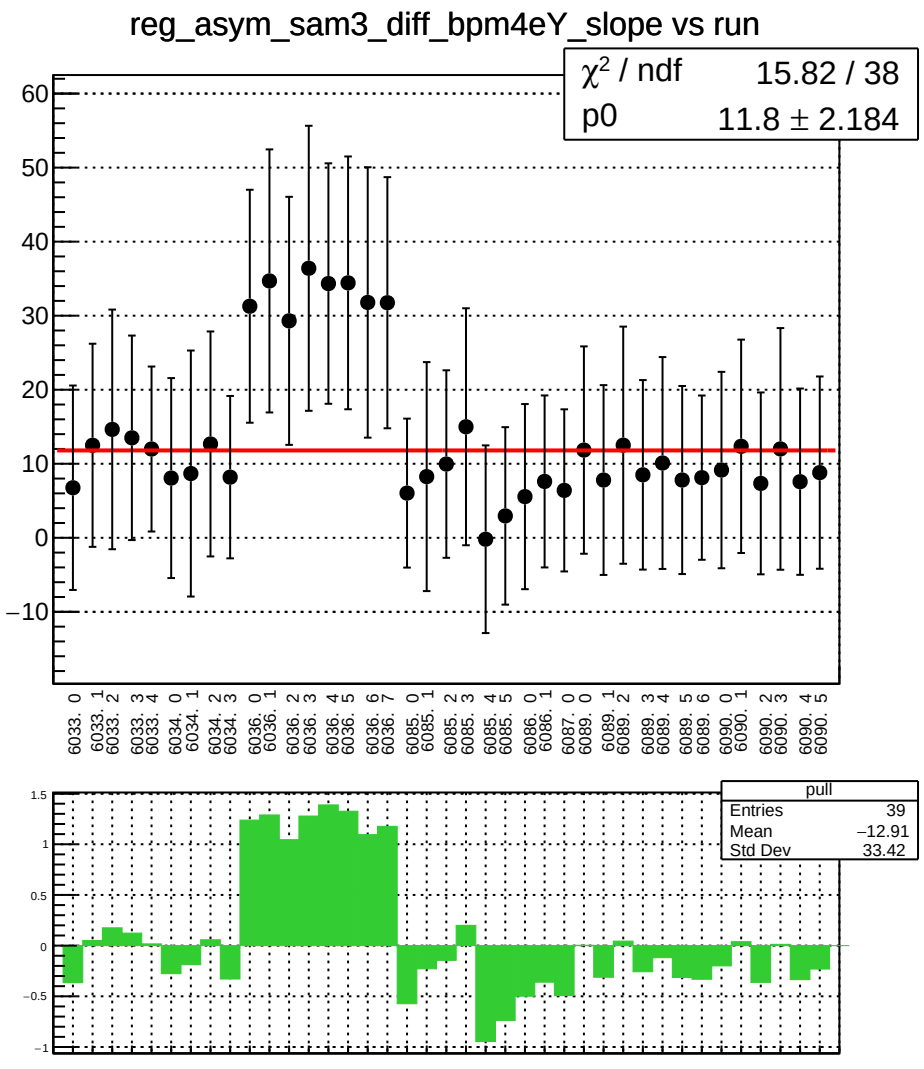

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 4.889 / 38
p0 −75.75 ± 3.252
pull
Entries 39
Mean 127.7
Std Dev 110.3

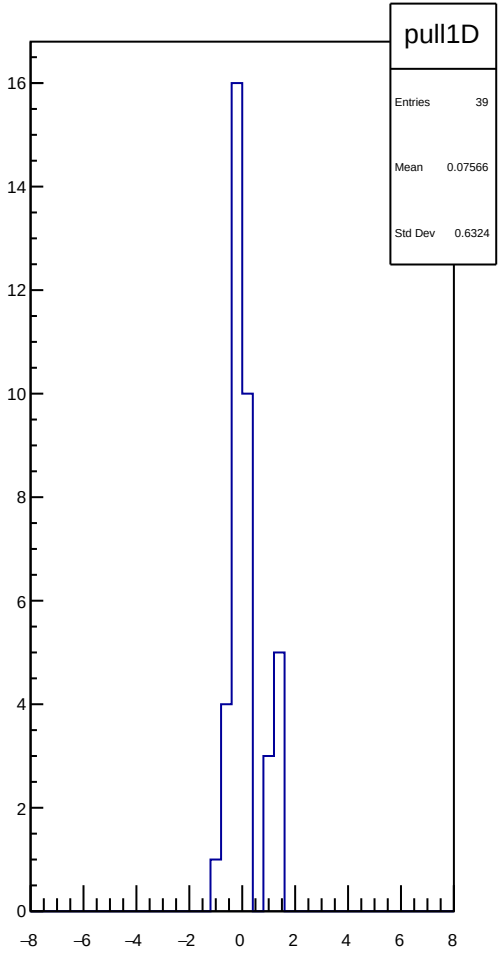

pull1D
Entries 39
Mean 0.01781
Std Dev 0.3536

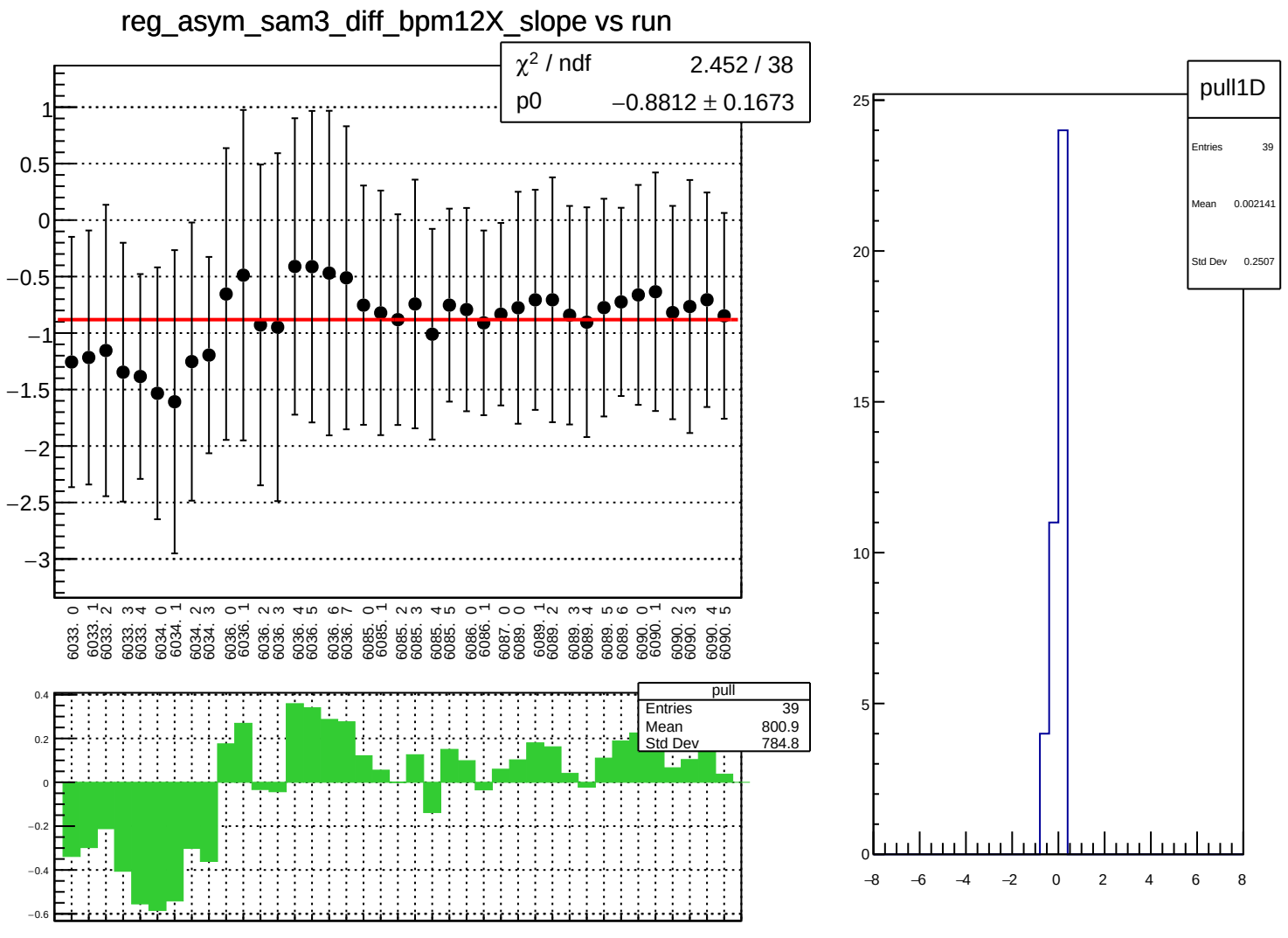

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 9.919 / 38
p0 6.315 ± 2.056
pull
Entries 39
Mean −44.26
Std Dev 63.75
pull1D
Entries 39
Mean −0.04479
Std Dev 0.5023

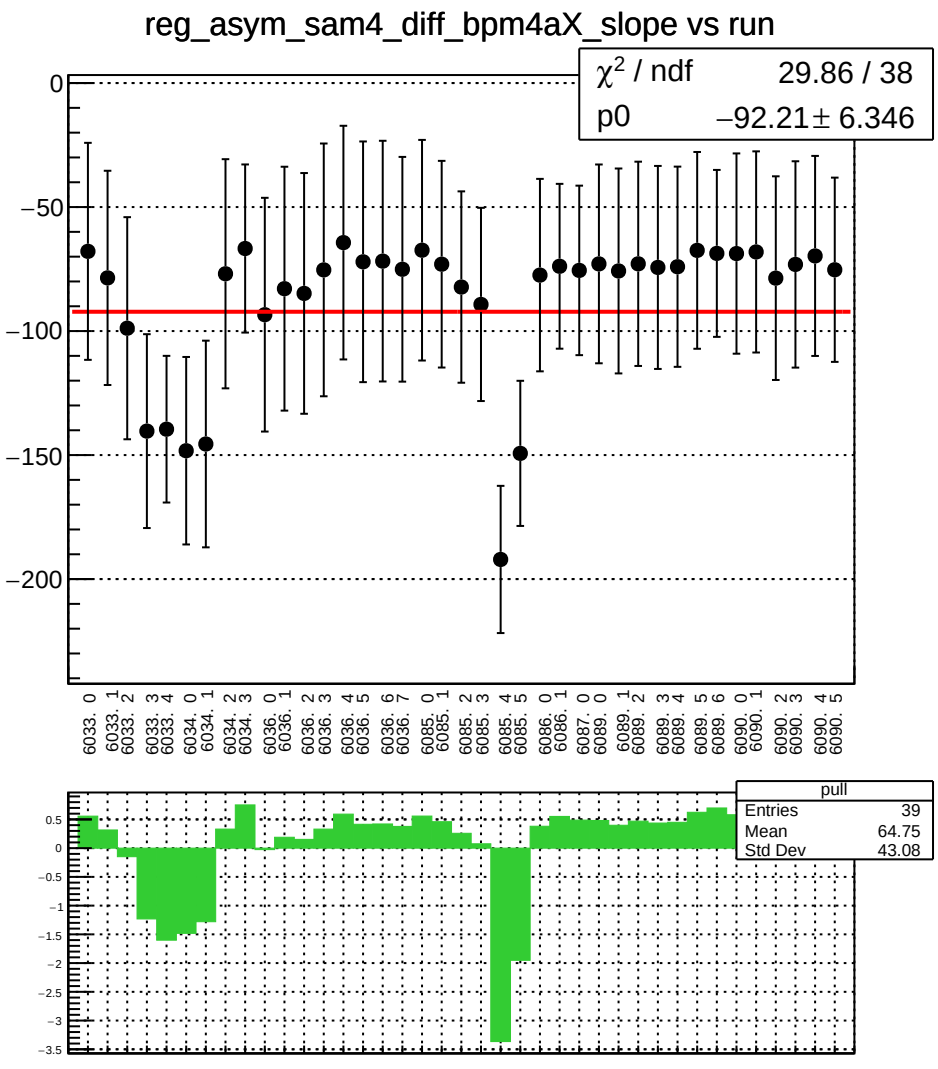

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 4.4 / 38
p0 −36 ± 3.675
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 37.09
Std Dev 19.83
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

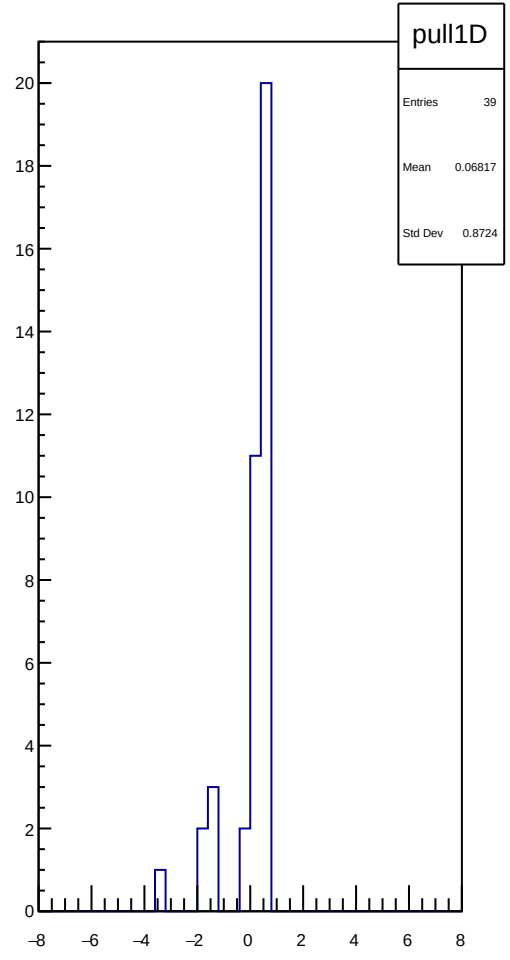

pull1D
Entries 39
Mean −0.04187
Std Dev 0.3333
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

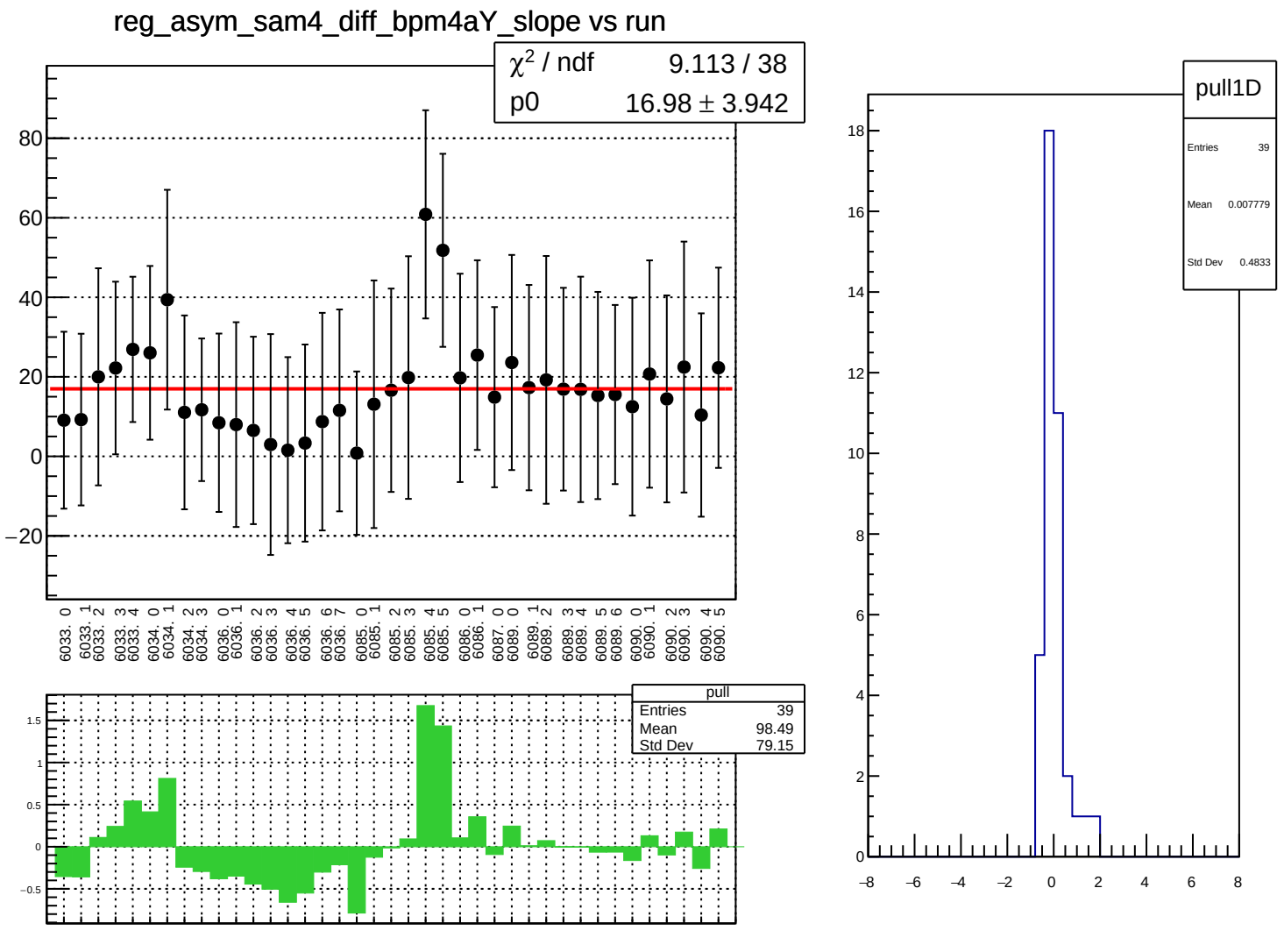

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 15.82 / 38
p0 11.8 ± 2.184
pull
Entries 39
Mean −12.91
Std Dev 33.42

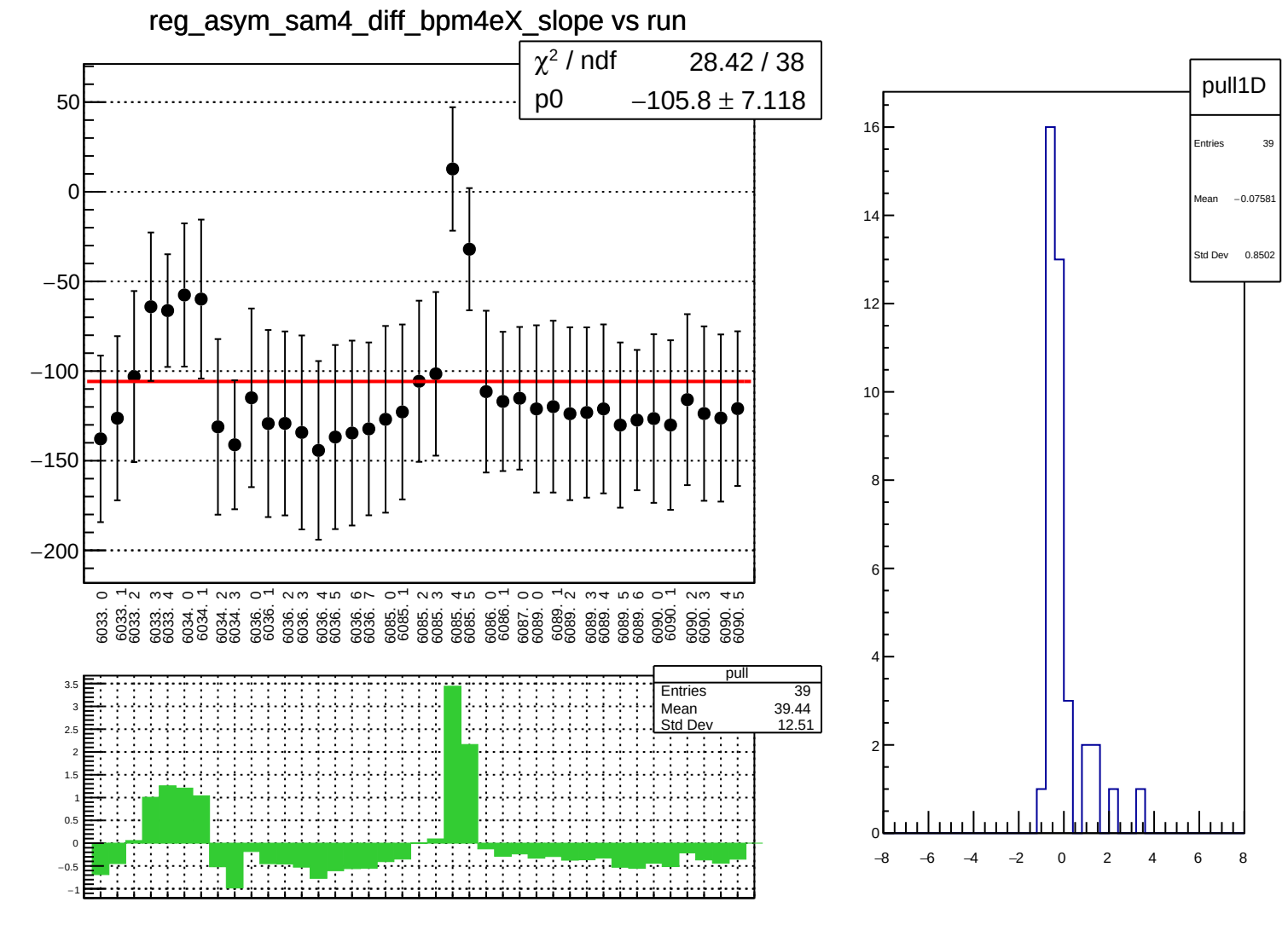

pull1D
Entries 39
Mean 0.07566
Std Dev 0.6324

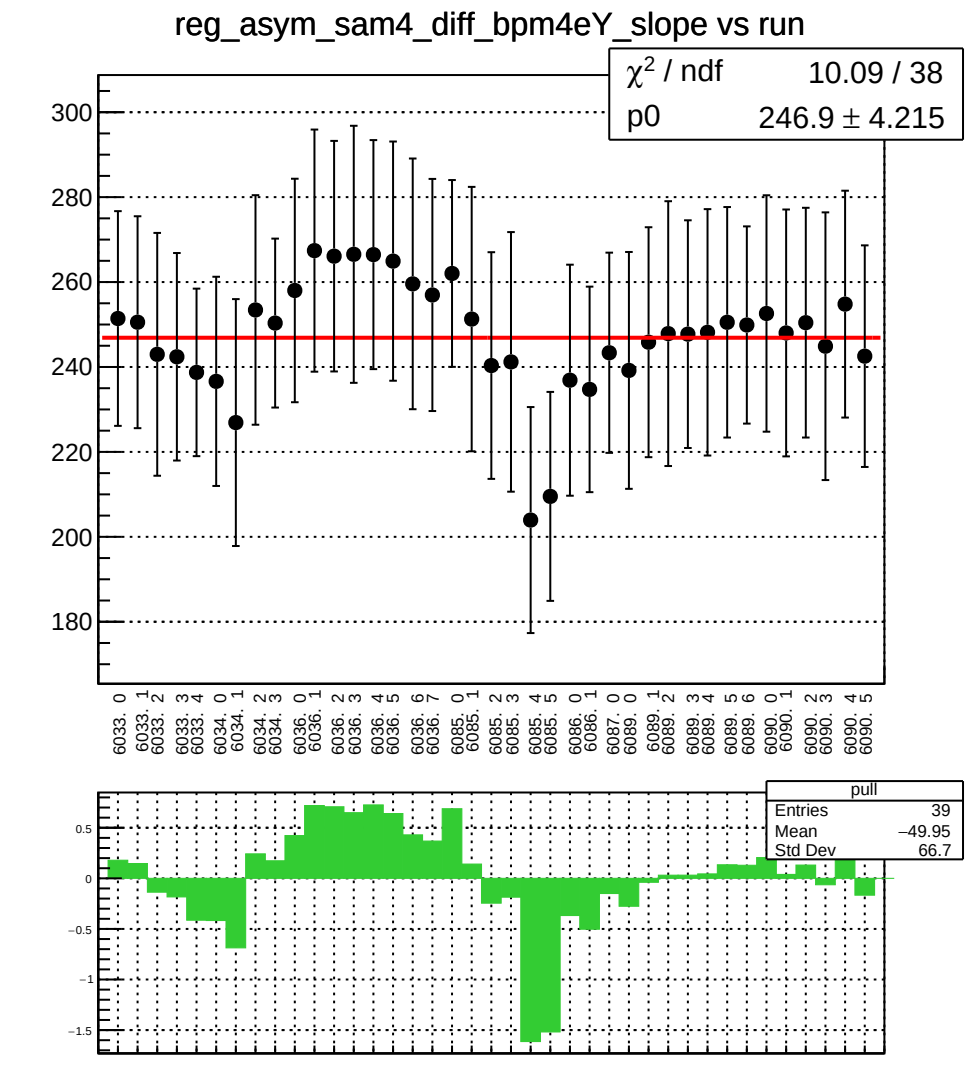

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.452 / 38
p0 −0.8812 ± 0.1673
pull
Entries 39
Mean 800.9
Std Dev 784.8
pull1D
Entries 39
Mean 0.002141
Std Dev 0.2507

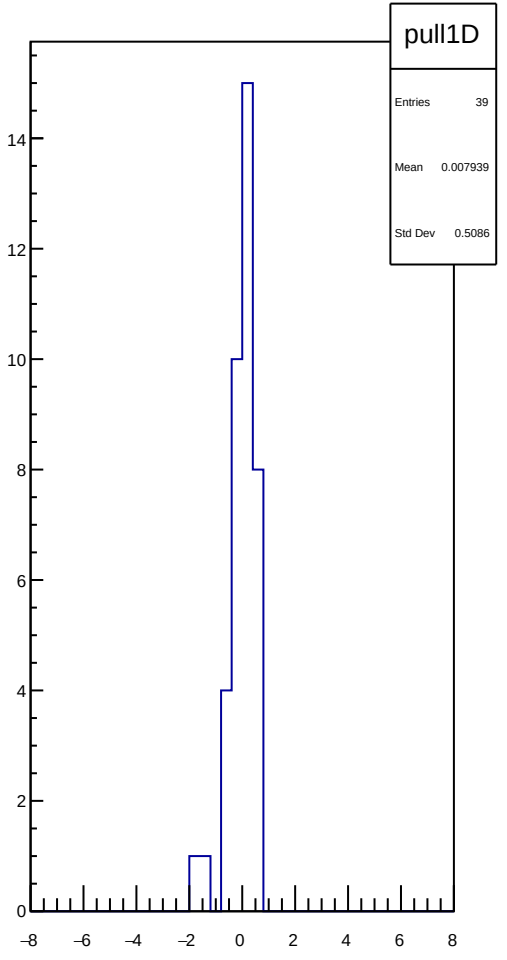

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 29.86 / 38
p0 −92.21 ± 6.346
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 64.75
Std Dev 43.08
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

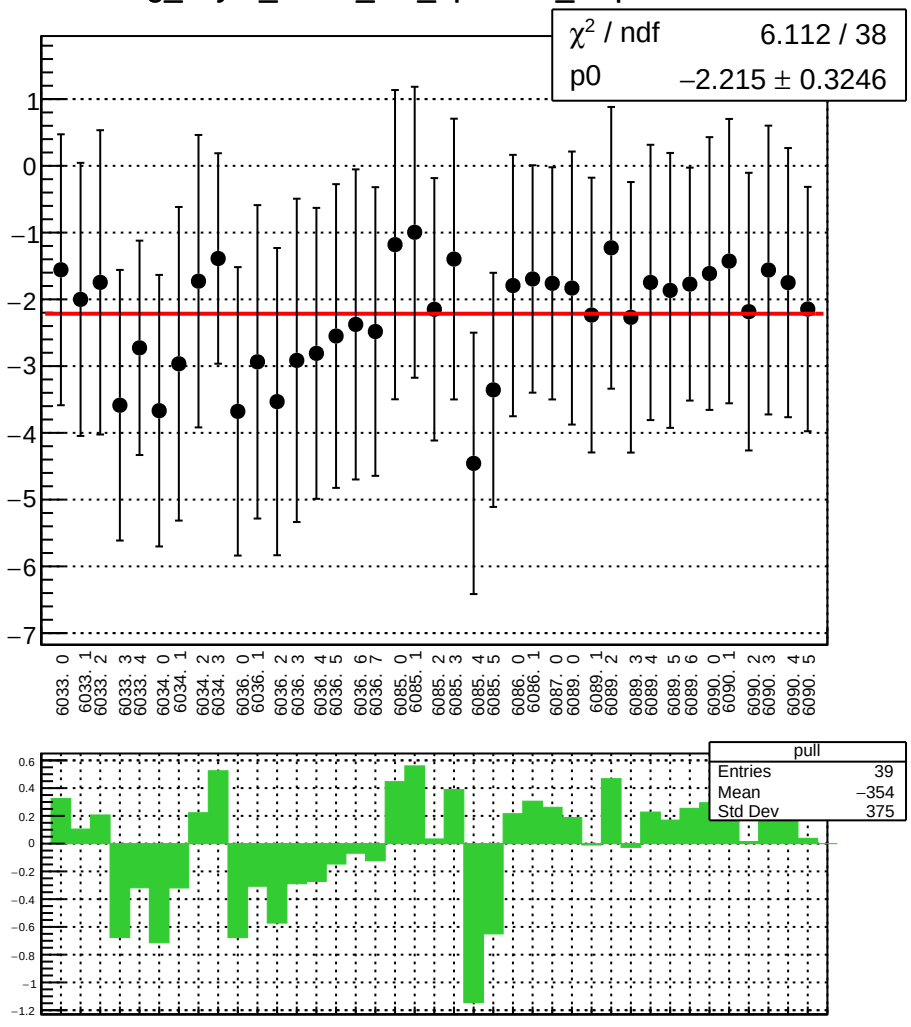

pull1D
Entries 39
Mean 0.06817
Std Dev 0.8724
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

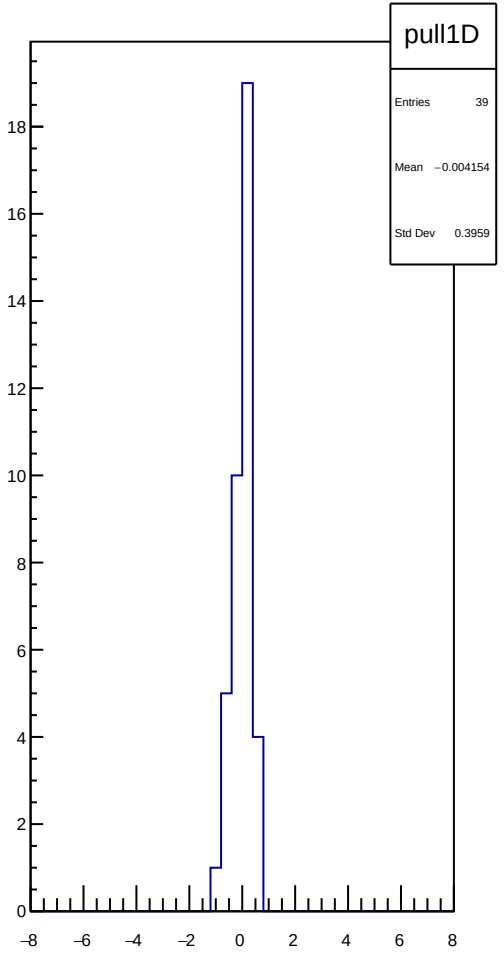

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 9.113 / 38
p0 16.98 ± 3.942
80
60
40
20
0
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 98.49
Std Dev 79.15
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean 0.007779
Std Dev 0.4833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

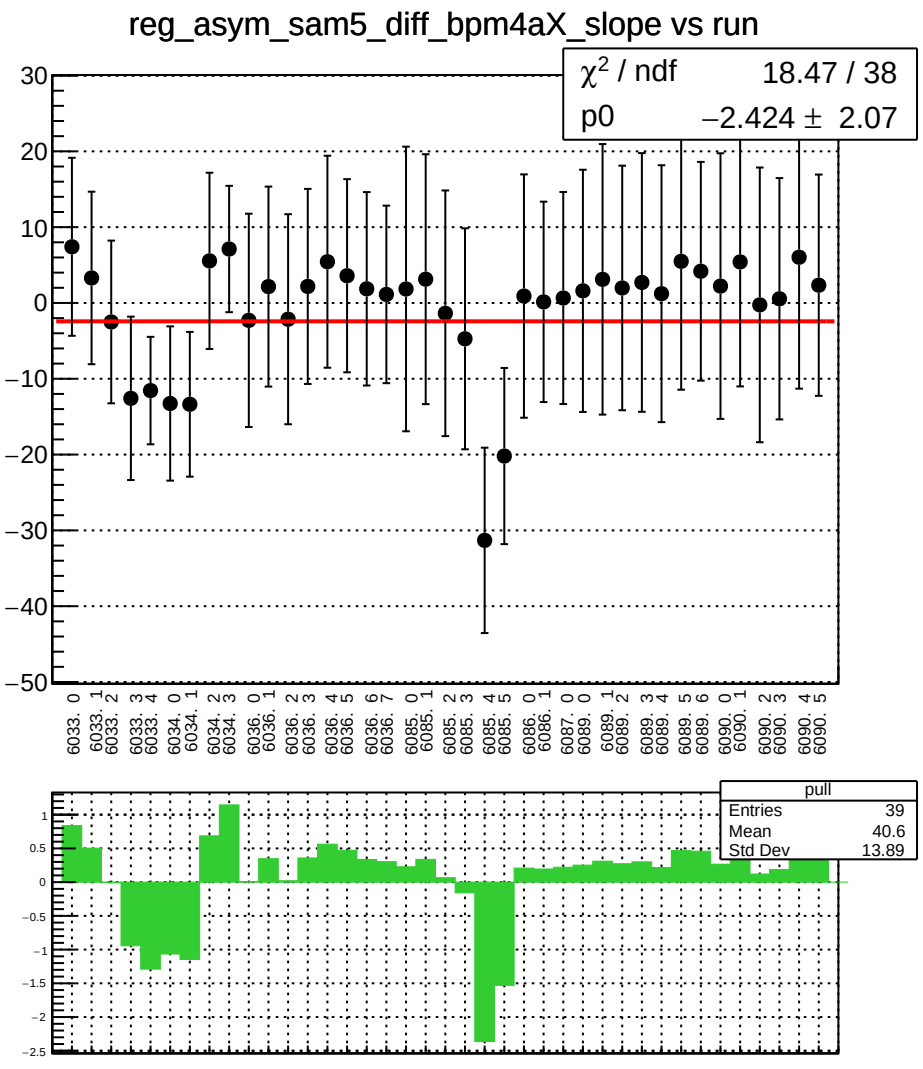

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 28.42 / 38
p0 −105.8 ± 7.118
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 39.44
Std Dev 12.51
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.07581
Std Dev 0.8502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

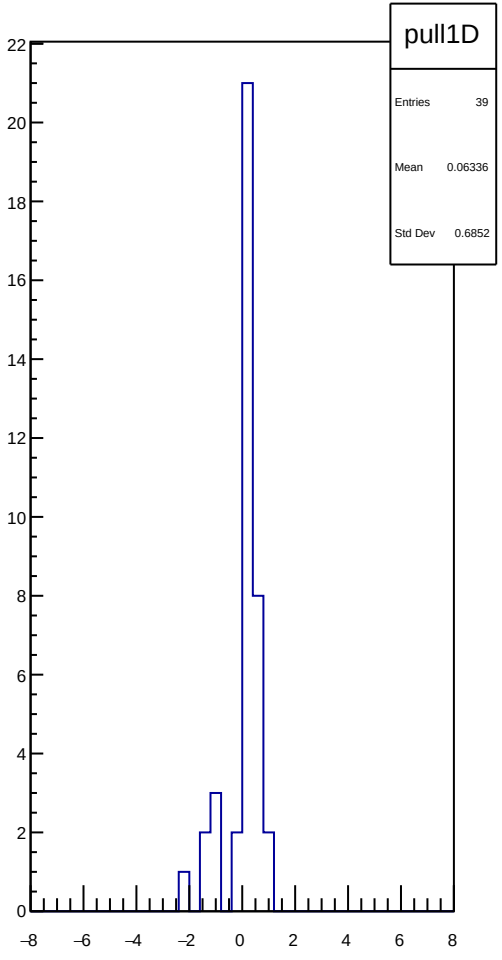

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 10.09 / 38
p0 246.9 ± 4.215
300
280
260
240
220
200
180
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −49.95
Std Dev 66.7
0.5
0
−0.5
−1
−1.5

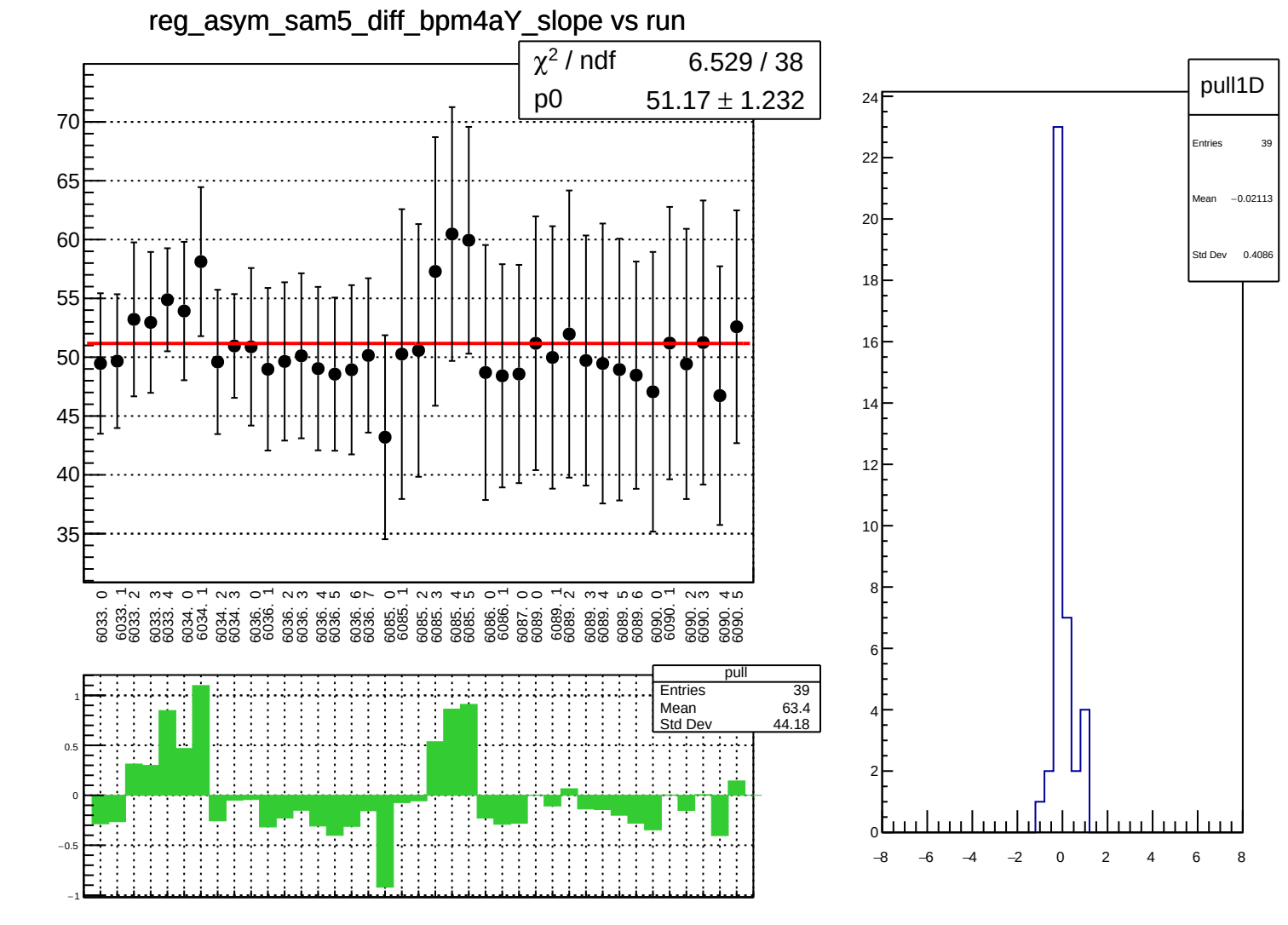

pull1D
Entries 39
Mean 0.007939
Std Dev 0.5086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

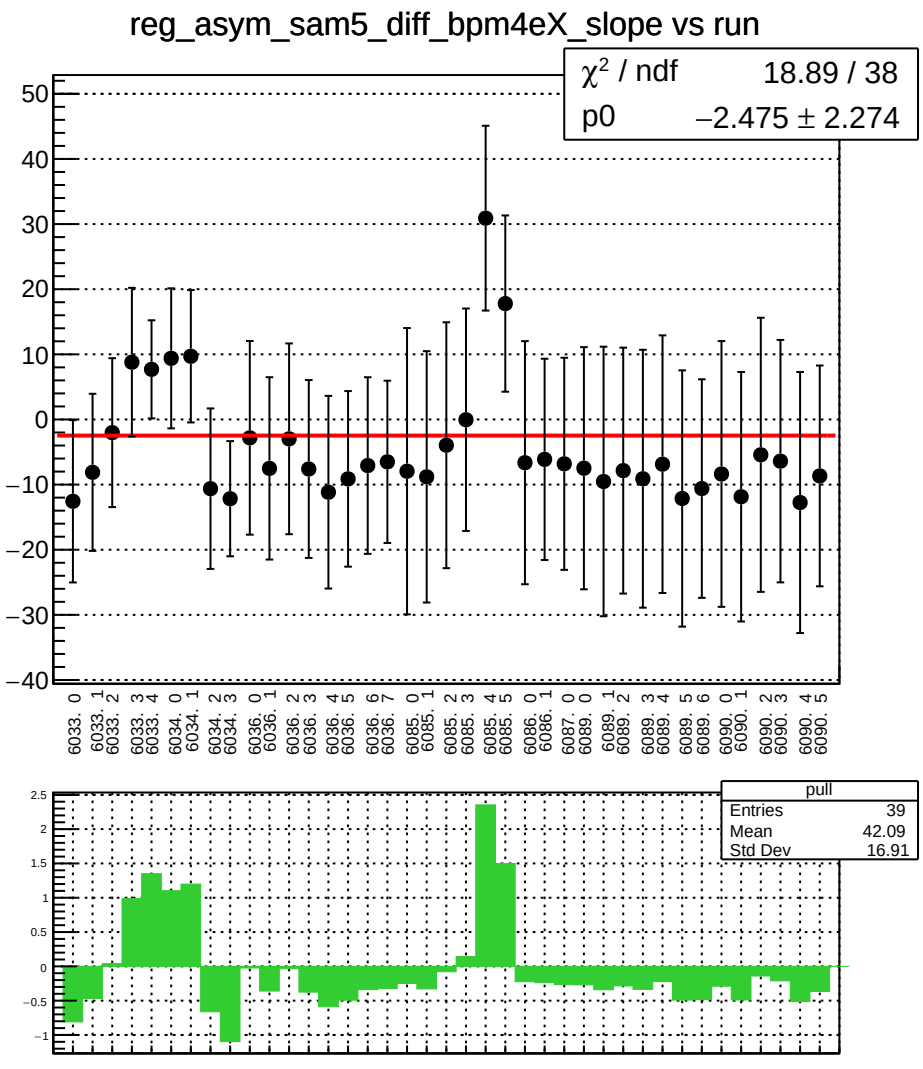

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 6.112 / 38
p0 −2.215 ± 0.3246
pull
Entries 39
Mean −354
Std Dev 375

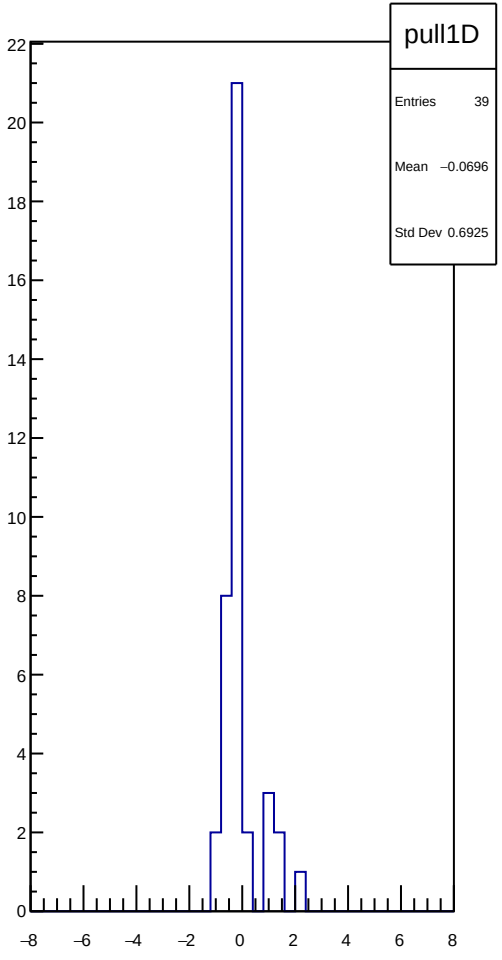

pull1D
Entries 39
Mean −0.004154
Std Dev 0.3959

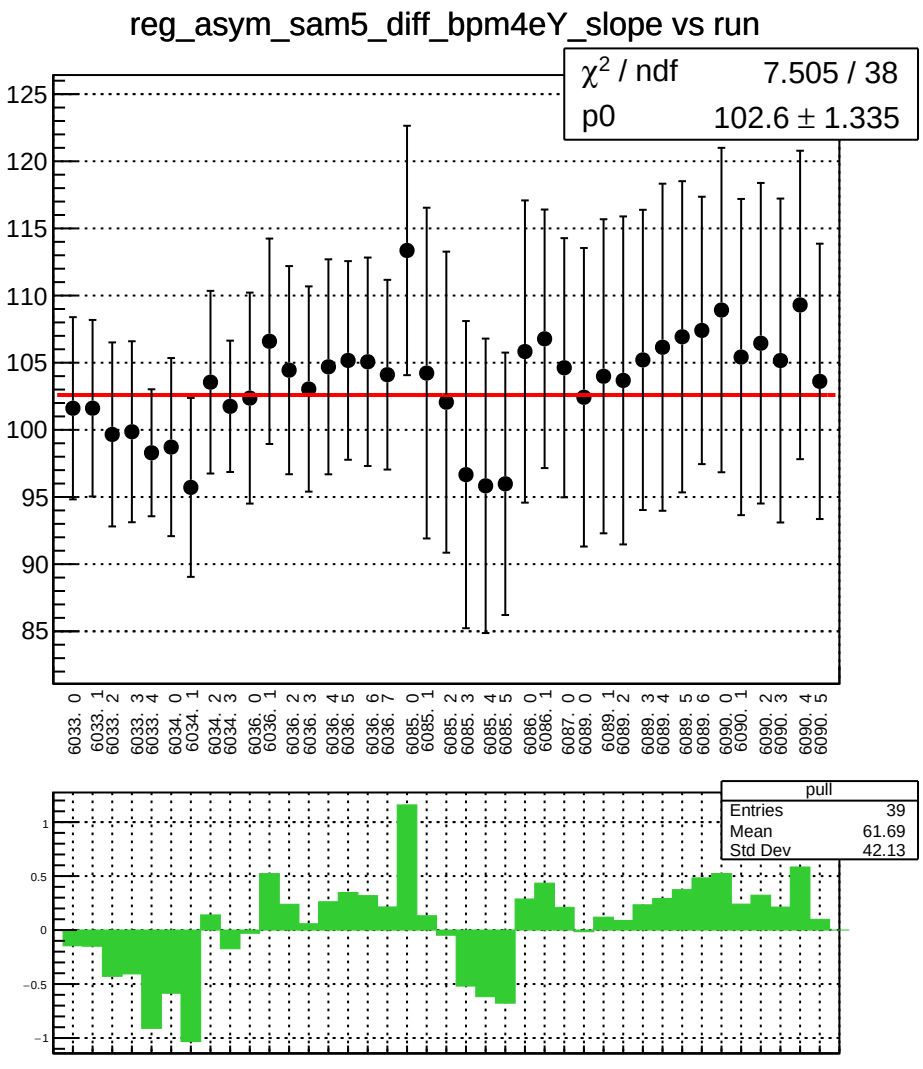

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 18.47 / 38
p0 −2.424 ± 2.07
pull
Entries 39
Mean 40.6
Std Dev 13.89

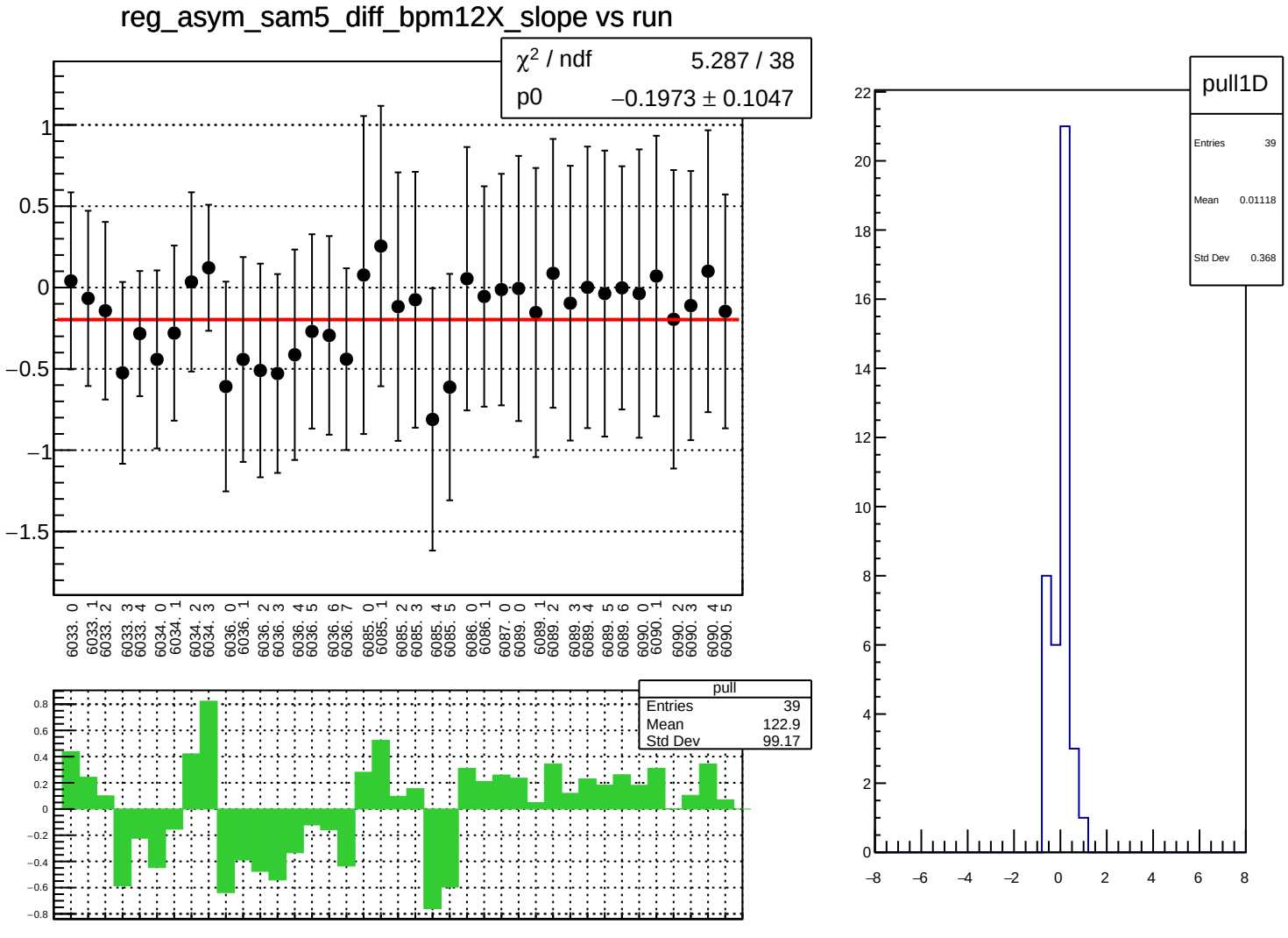

pull1D
Entries 39
Mean 0.06336
Std Dev 0.6852

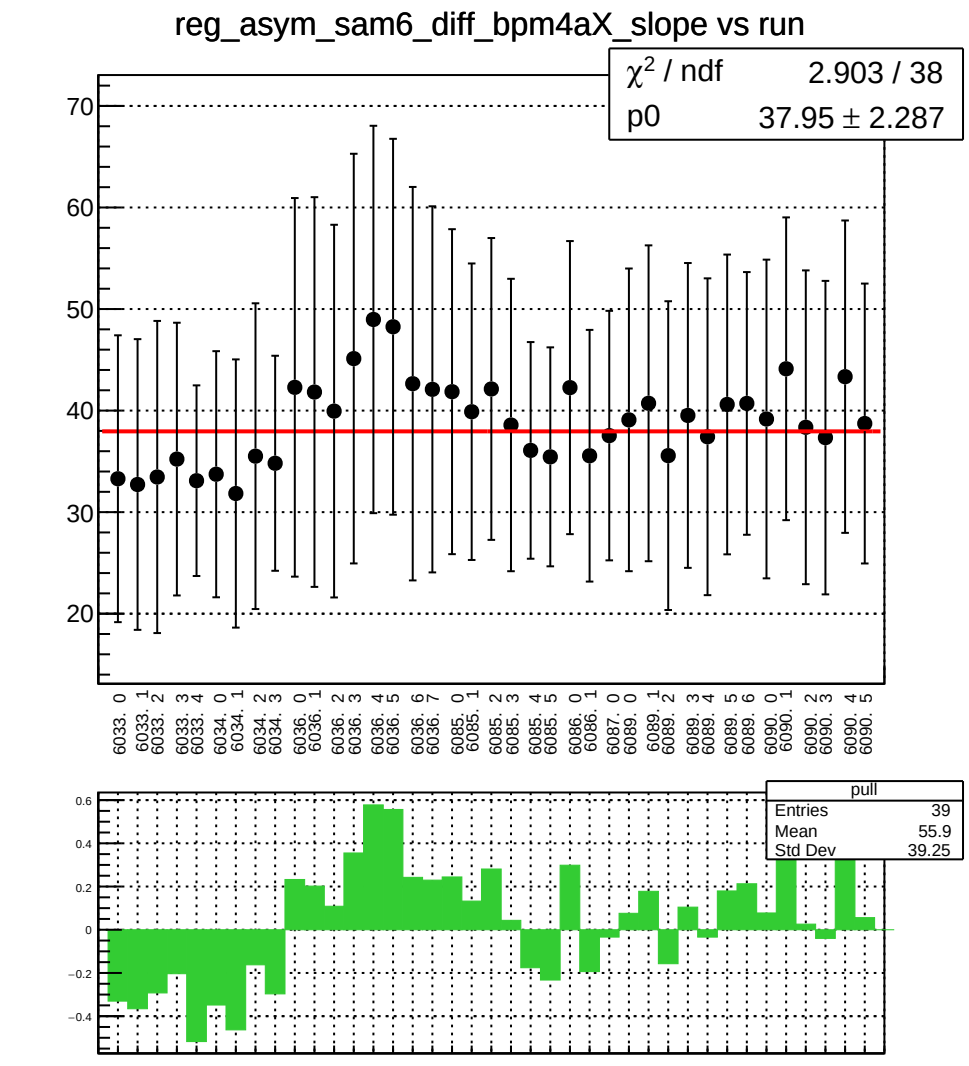

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.529 / 38
p0 51.17 ± 1.232
pull
Entries 39
Mean 63.4
Std Dev 44.18
pull1D
Entries 39
Mean −0.02113
Std Dev 0.4086

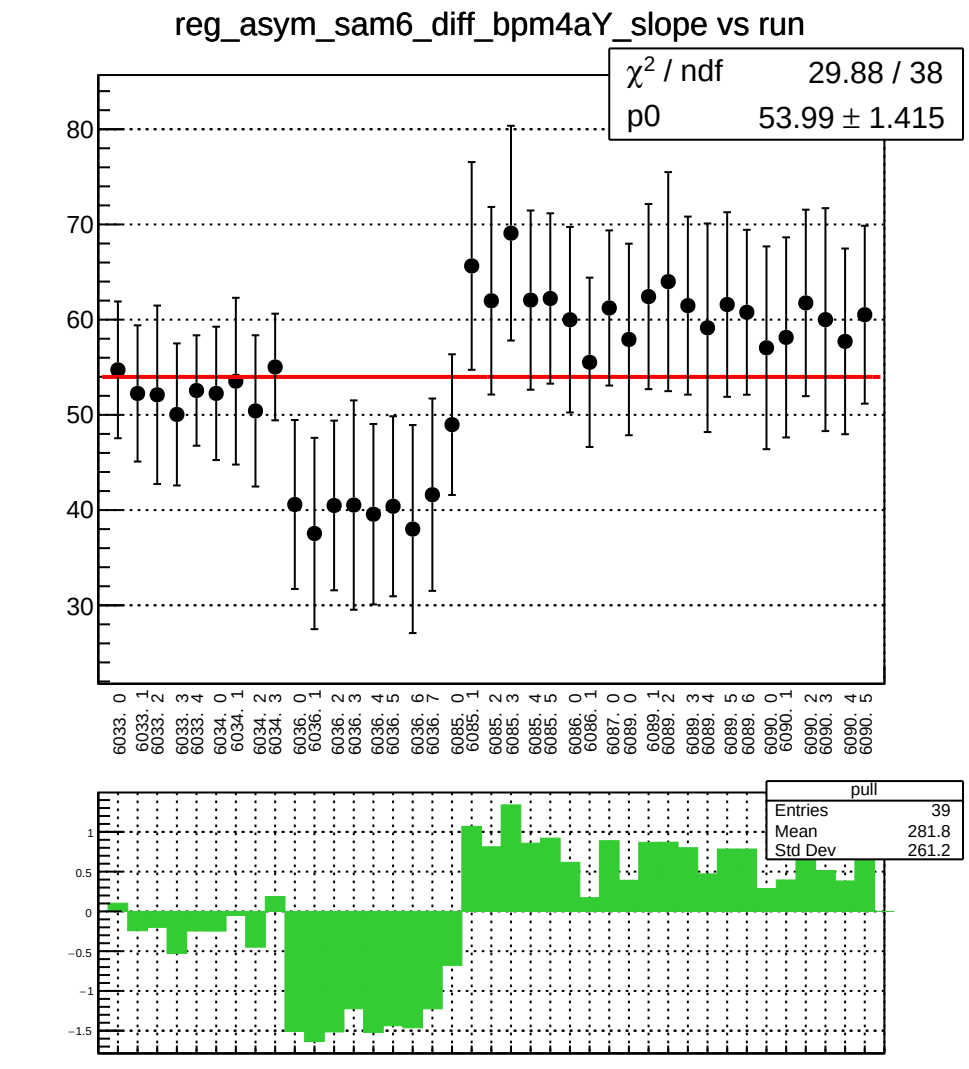

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 18.89 / 38
p0 −2.475 ± 2.274
pull
Entries 39
Mean 42.09
Std Dev 16.91

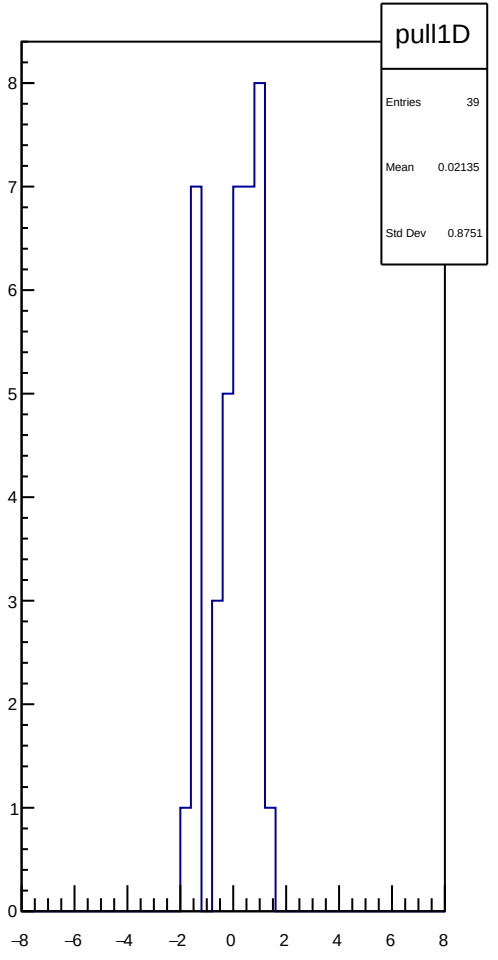

pull1D
Entries 39
Mean −0.0696
Std Dev 0.6925

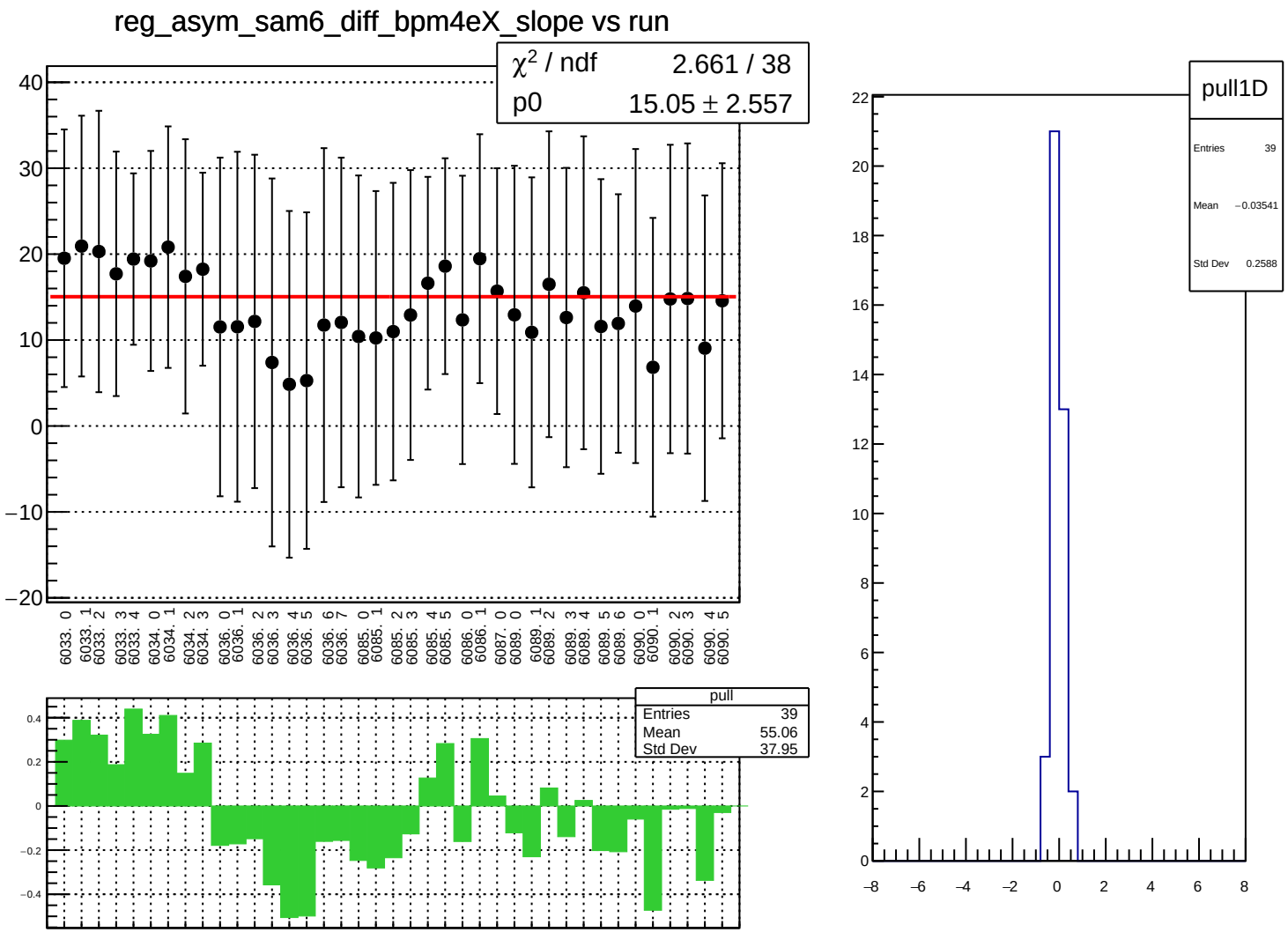

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.505 / 38
p0 102.6 ± 1.335
125
120
115
110
105
100
95
90
85
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 61.69
Std Dev 42.13
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.05543
Std Dev 0.4352
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

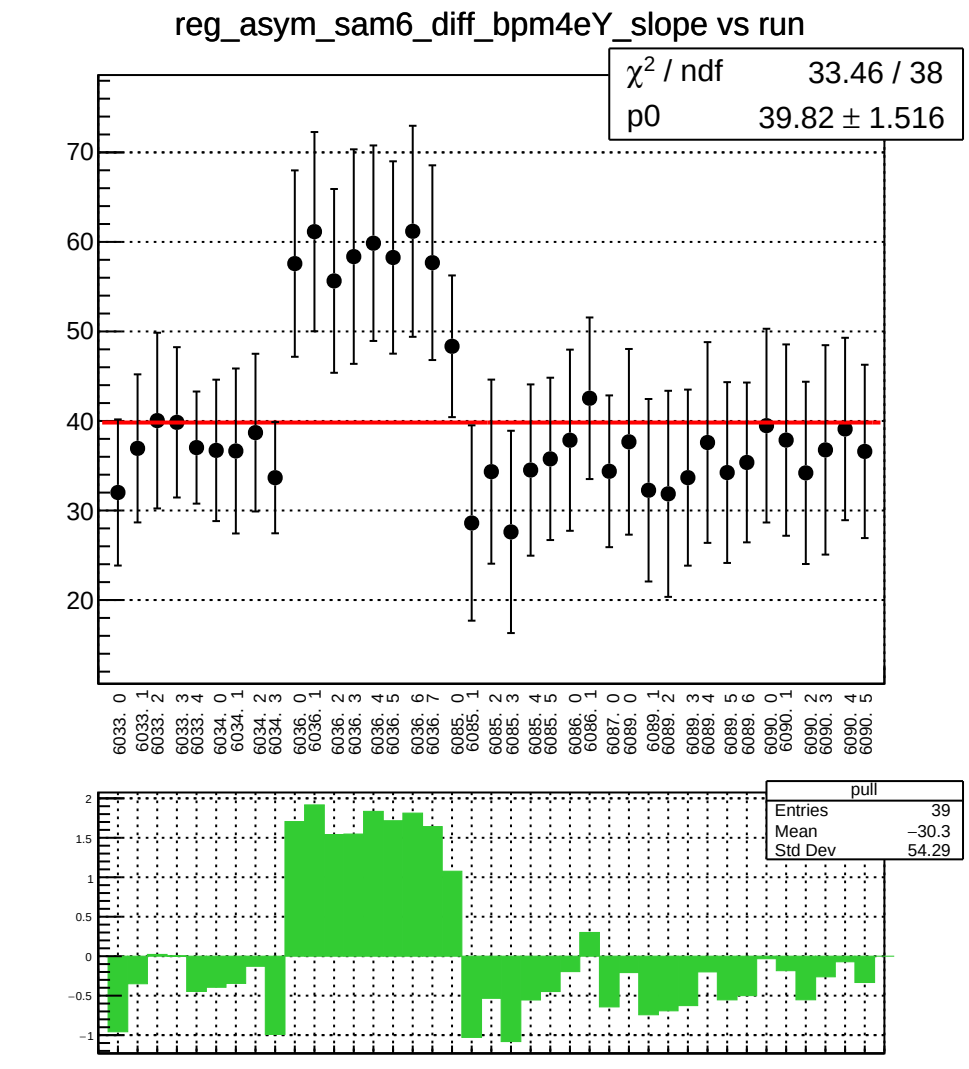

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5.287 / 38
p0 −0.1973 ± 0.1047
pull
Entries 39
Mean 122.9
Std Dev 99.17
pull1D
Entries 39
Mean 0.01118
Std Dev 0.368

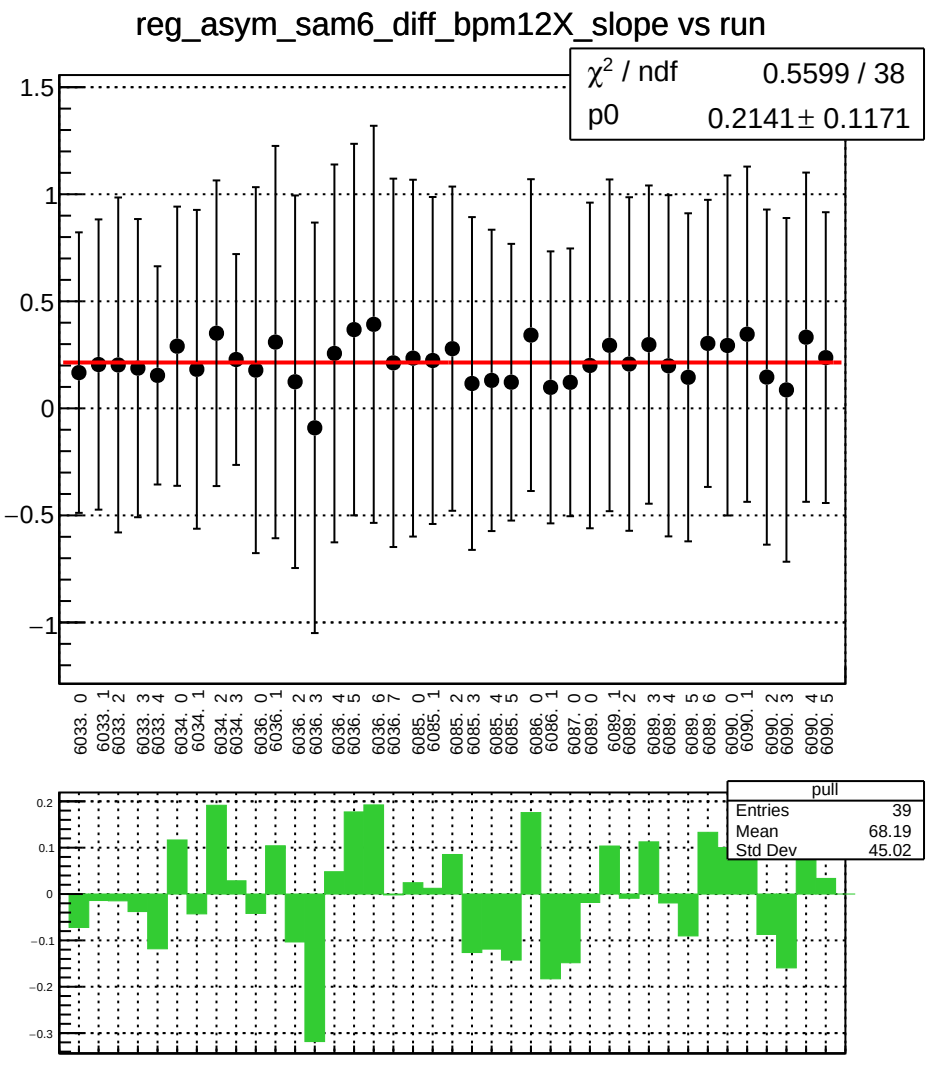

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.903 / 38
p0 37.95 ± 2.287
70
60
50
40
30
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 55.9
Std Dev 39.25
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 39
Mean 0.03414
Std Dev 0.2707
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

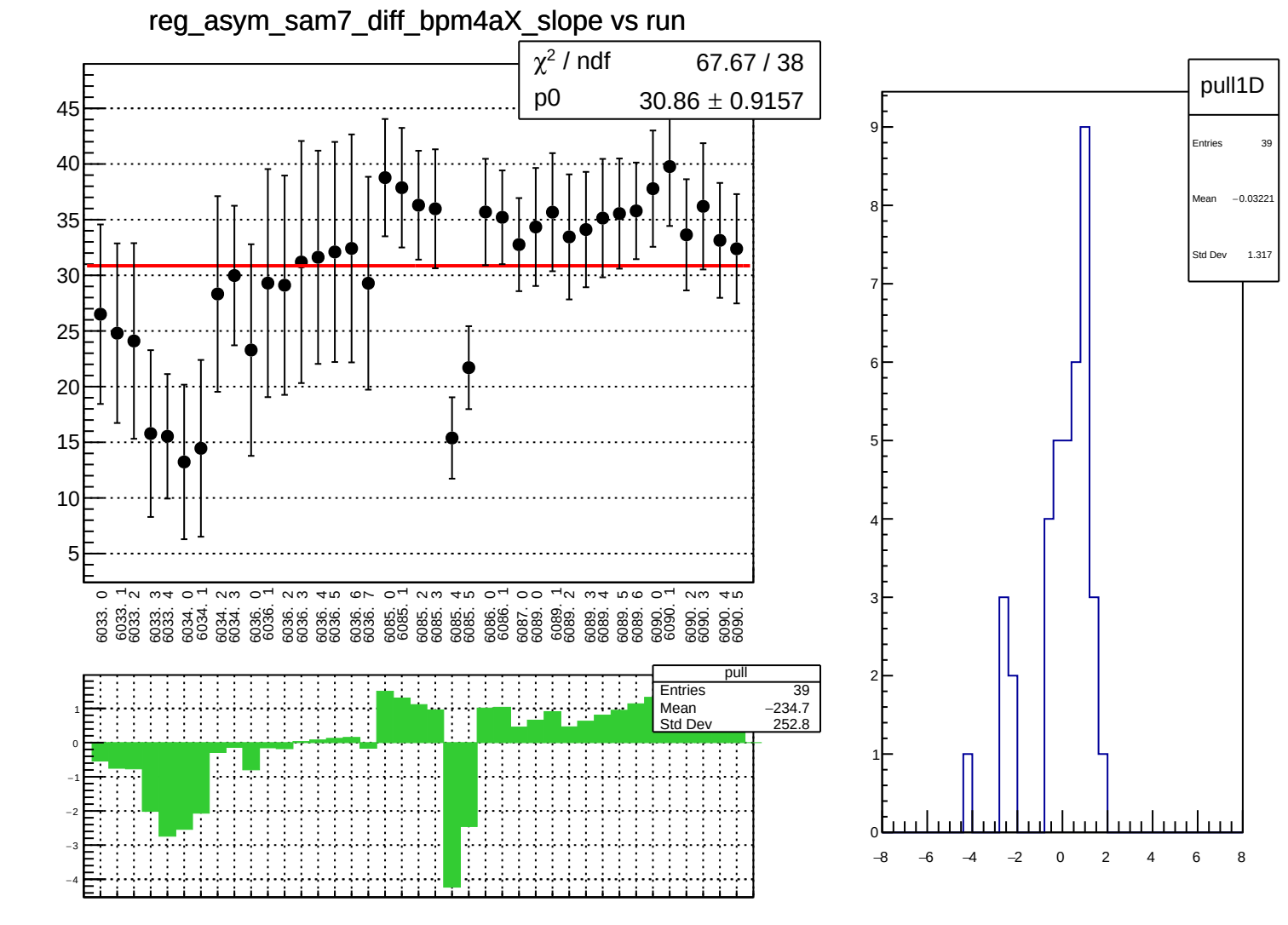

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 29.88 / 38
p0 53.99 ± 1.415
80
70
60
50
40
30
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 281.8
Std Dev 261.2
1
0.5
0
−0.5
−1
−1.5

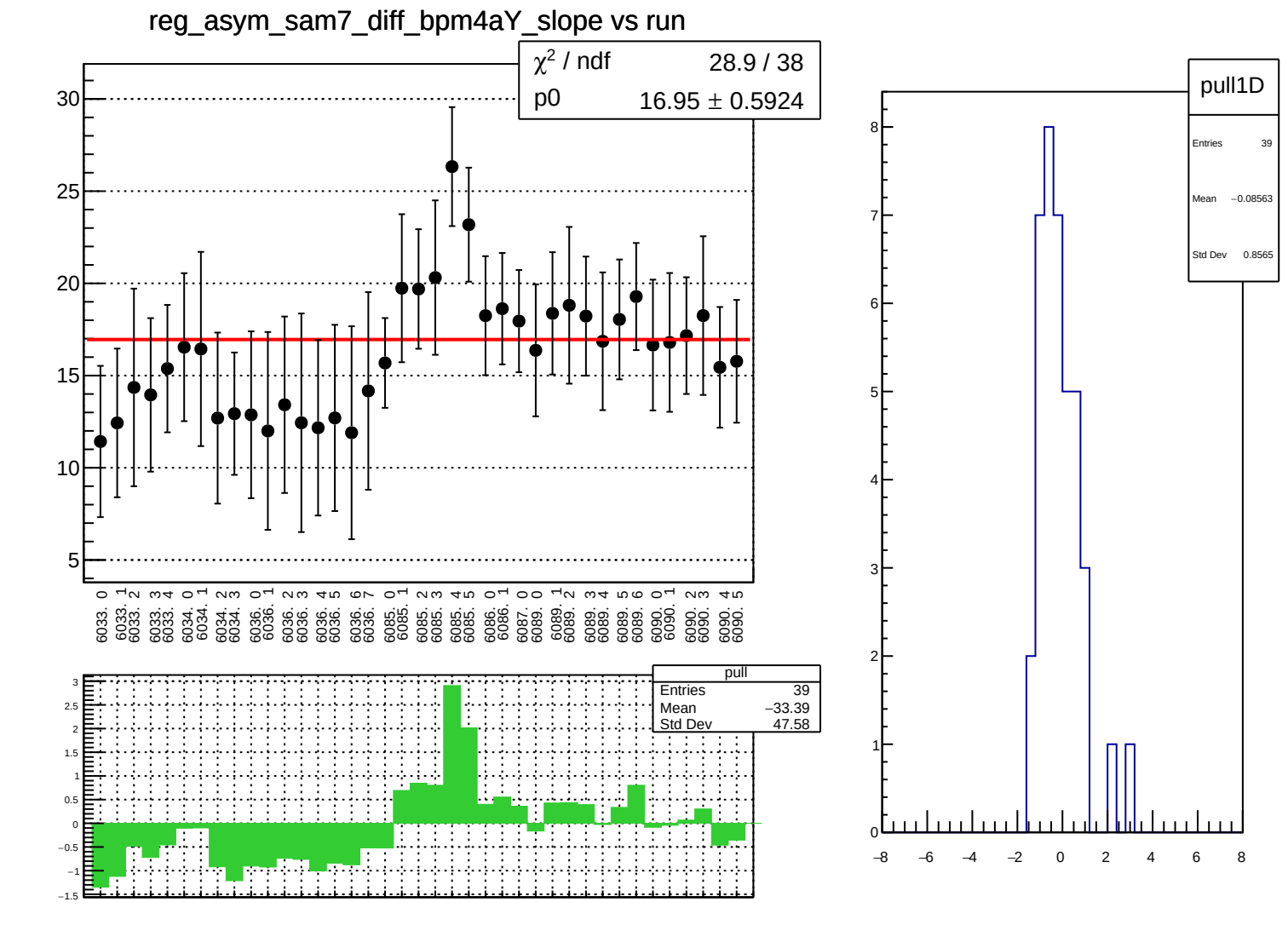

pull1D
Entries 39
Mean 0.02135
Std Dev 0.8751
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

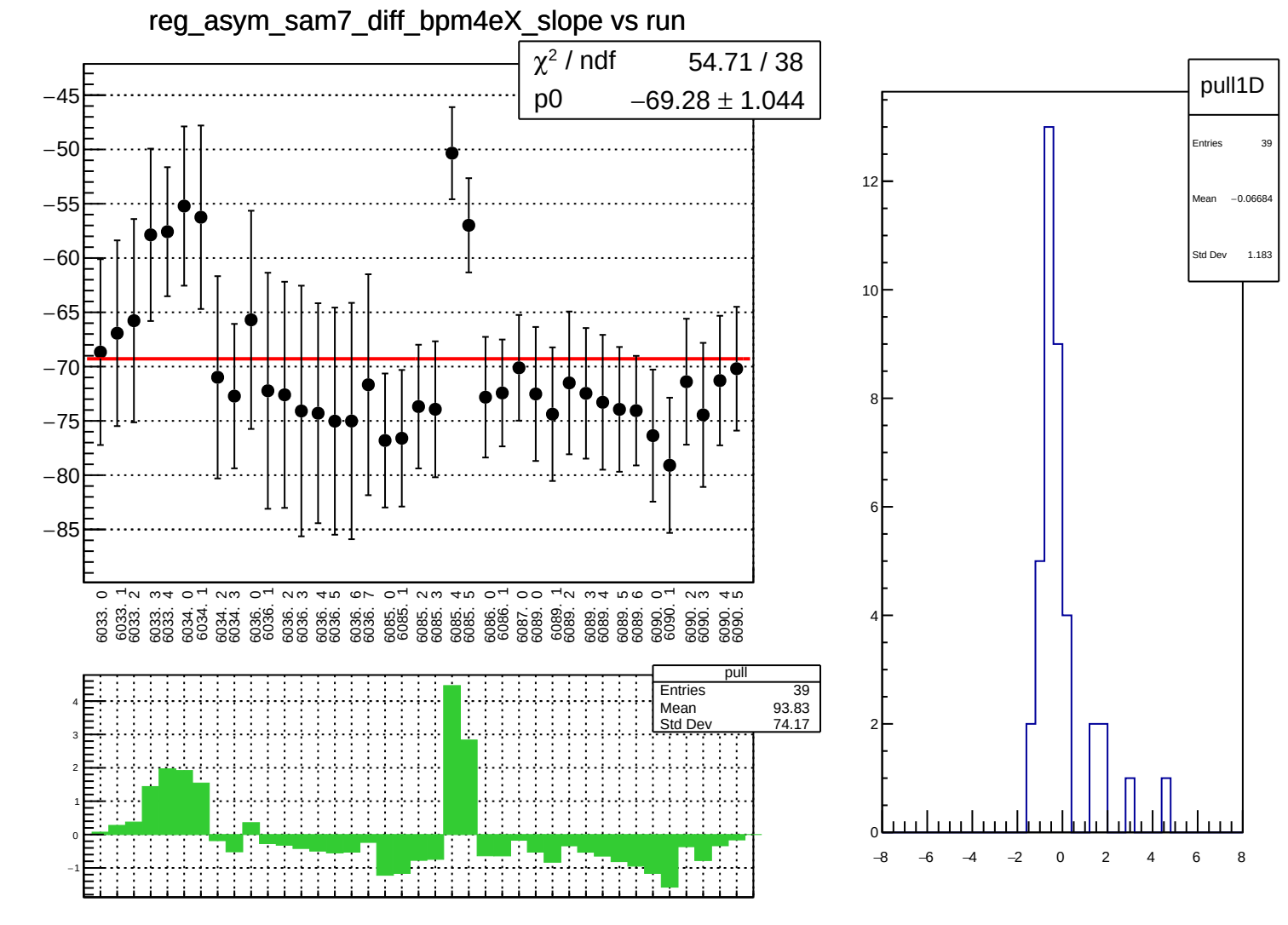

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.661 / 38
p0 15.05 ± 2.557
pull
Entries 39
Mean 55.06
Std Dev 37.95
pull1D
Entries 39
Mean −0.03541
Std Dev 0.2588

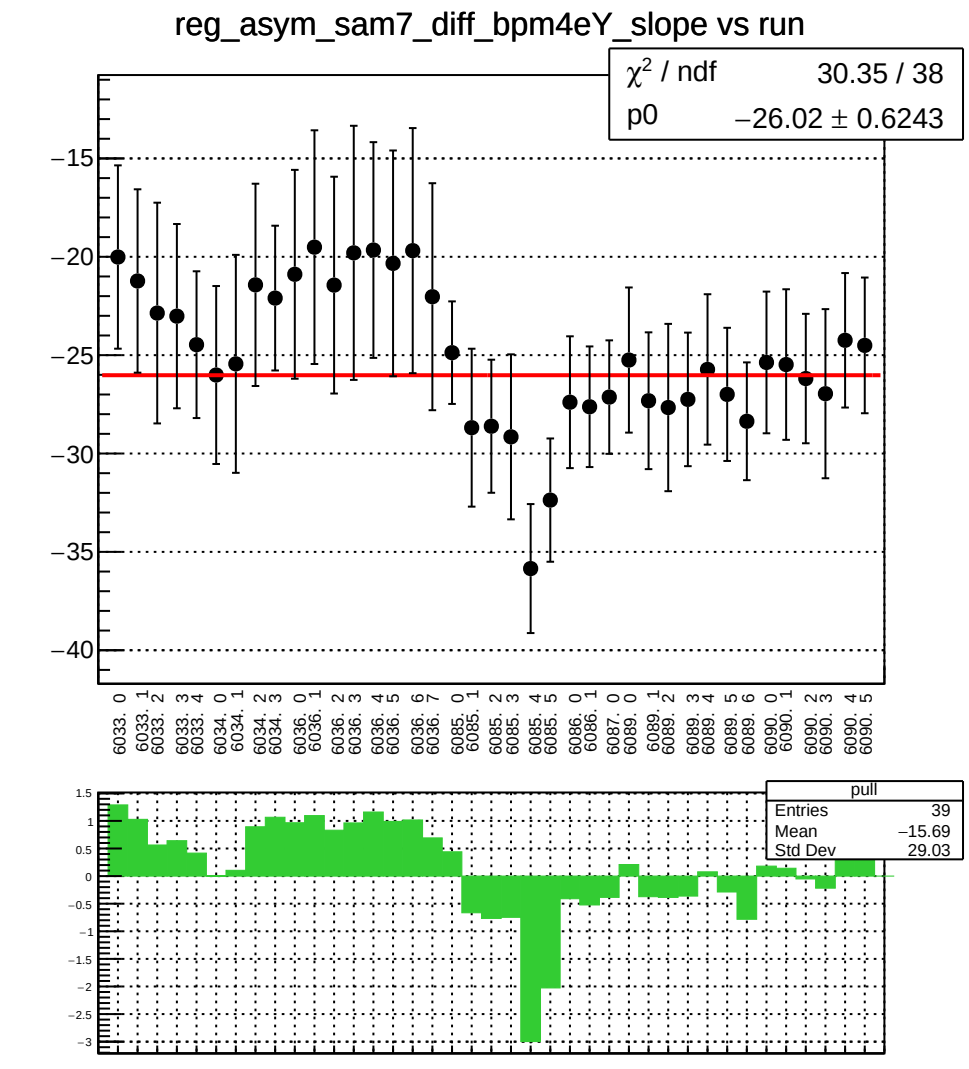

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 33.46 / 38
p0 39.82 ± 1.516
70
60
50
40
30
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −30.3
Std Dev 54.29
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.05309
Std Dev 0.9247
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

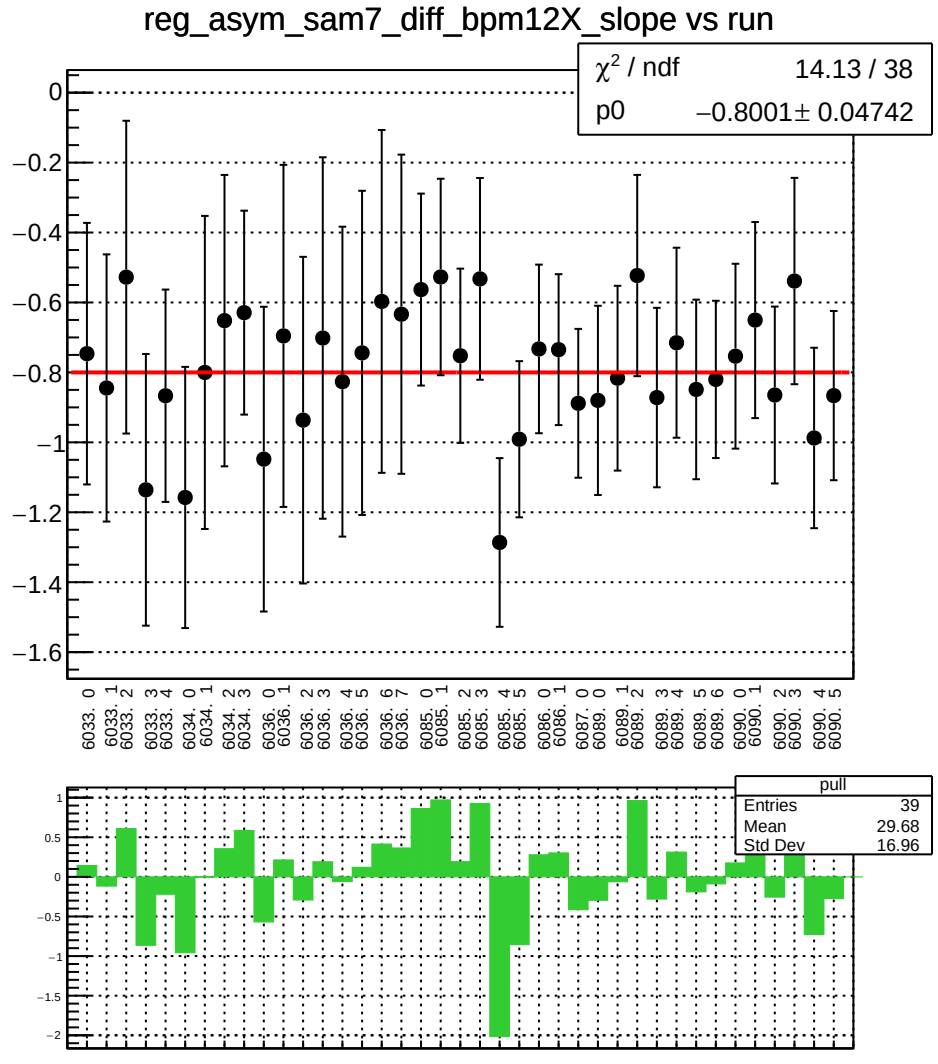

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.5599 / 38
p0 0.2141± 0.1171
1.5
1
0.5
0
−0.5
−1
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 68.19
Std Dev 45.02
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 39
Mean 0.002433
Std Dev 0.1198
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

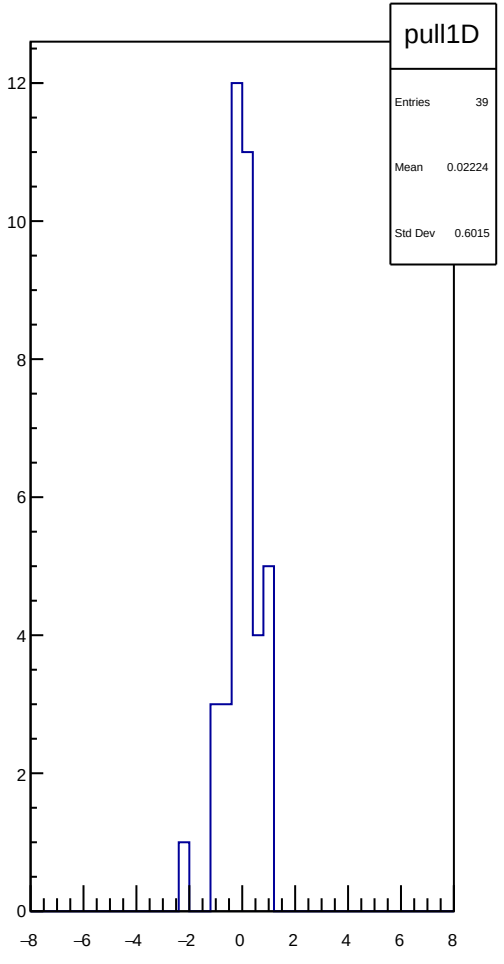

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 67.67 / 38
p0 30.86 ± 0.9157
pull
Entries 39
Mean −234.7
Std Dev 252.8
pull1D
Entries 39
Mean −0.03221
Std Dev 1.317

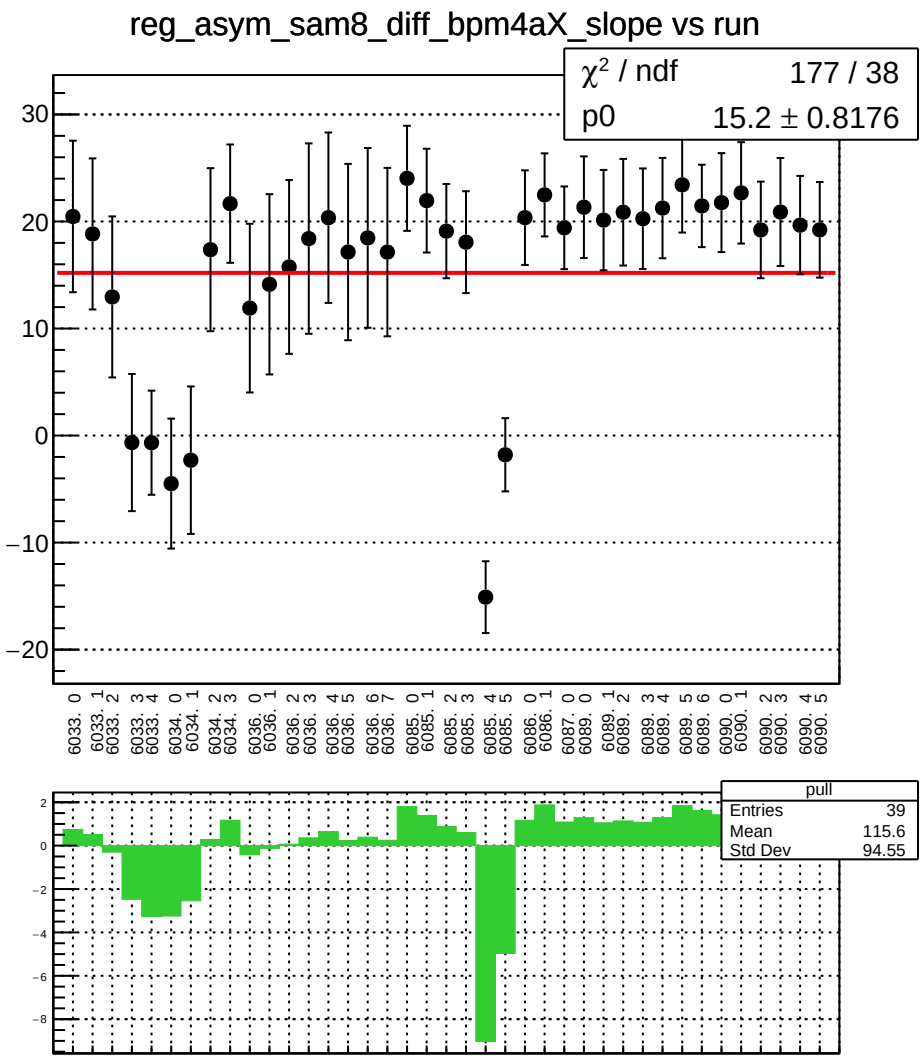

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 28.9 / 38
p0 16.95 ± 0.5924
pull
Entries 39
Mean −33.39
Std Dev 47.58
pull1D
Entries 39
Mean −0.08563
Std Dev 0.8565

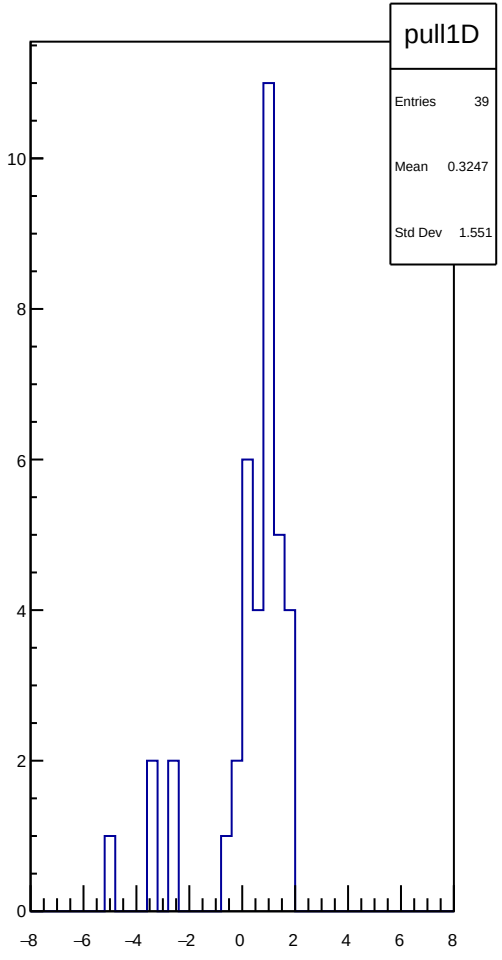

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 54.71 / 38
p0 −69.28 ± 1.044
−45
−50
−55
−60
−65
−70
−75
−80
−85
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 93.83
Std Dev 74.17
4
3
2
1
0
−1
pull1D
Entries 39
Mean −0.06684
Std Dev 1.183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

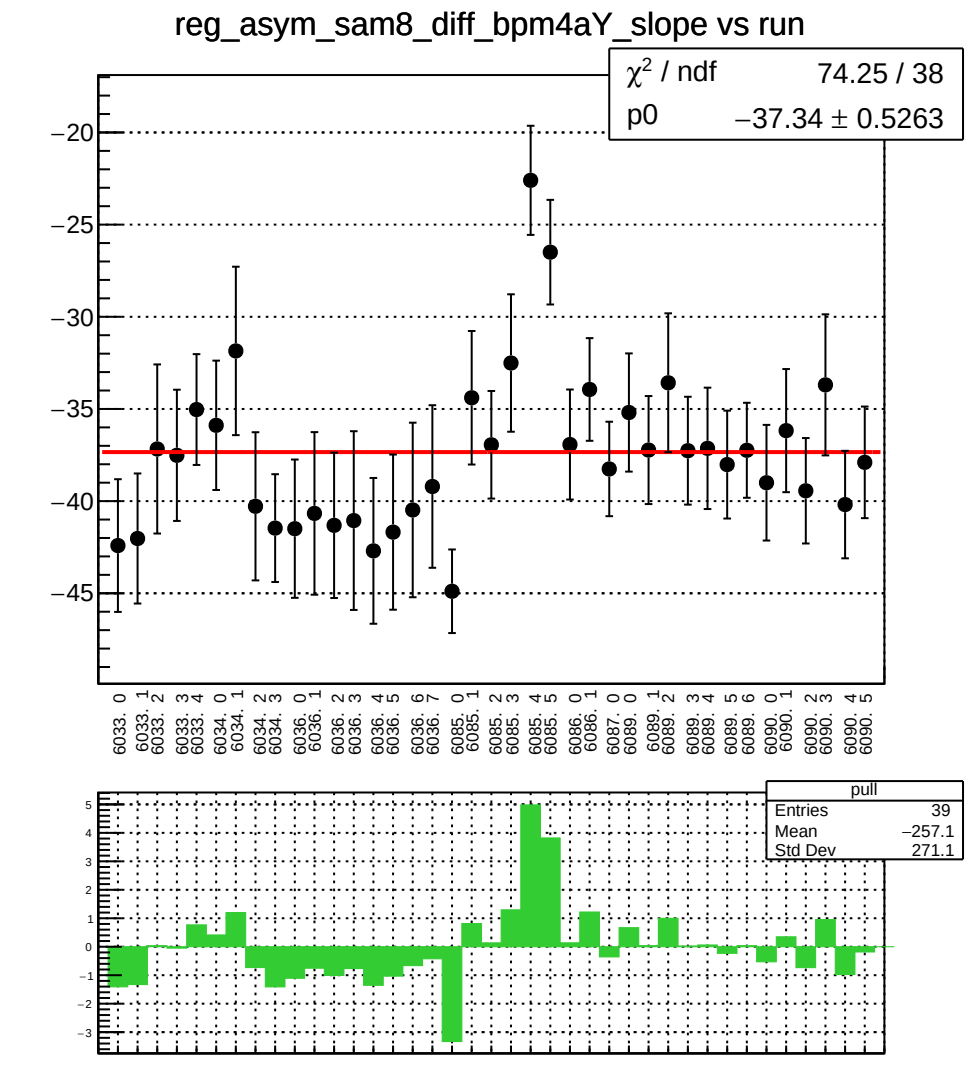

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 30.35 / 38
p0 −26.02 ± 0.6243
−15
−20
−25
−30
−35
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −15.69
Std Dev 29.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 39
Mean 0.1217
Std Dev 0.8737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

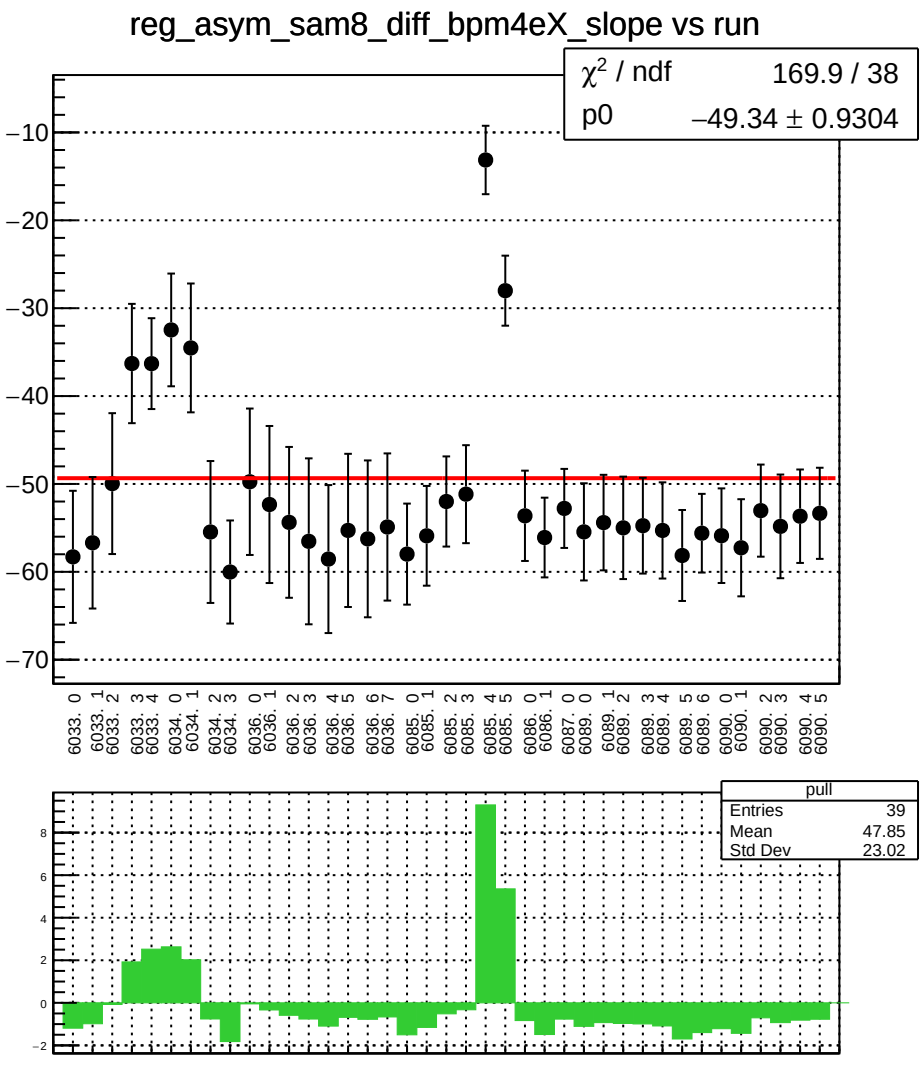

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 14.13 / 38
p0 −0.8001± 0.04742
pull
Entries 39
Mean 29.68
Std Dev 16.96

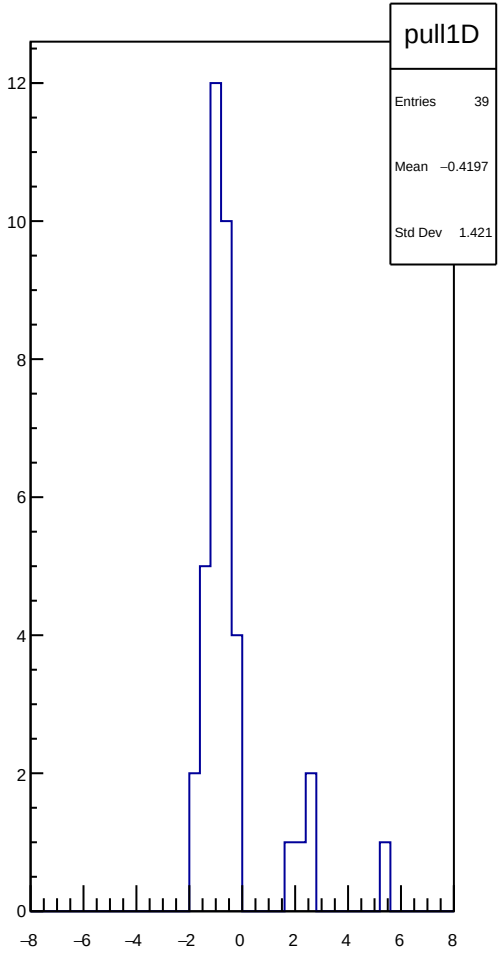

pull1D
Entries 39
Mean 0.02224
Std Dev 0.6015

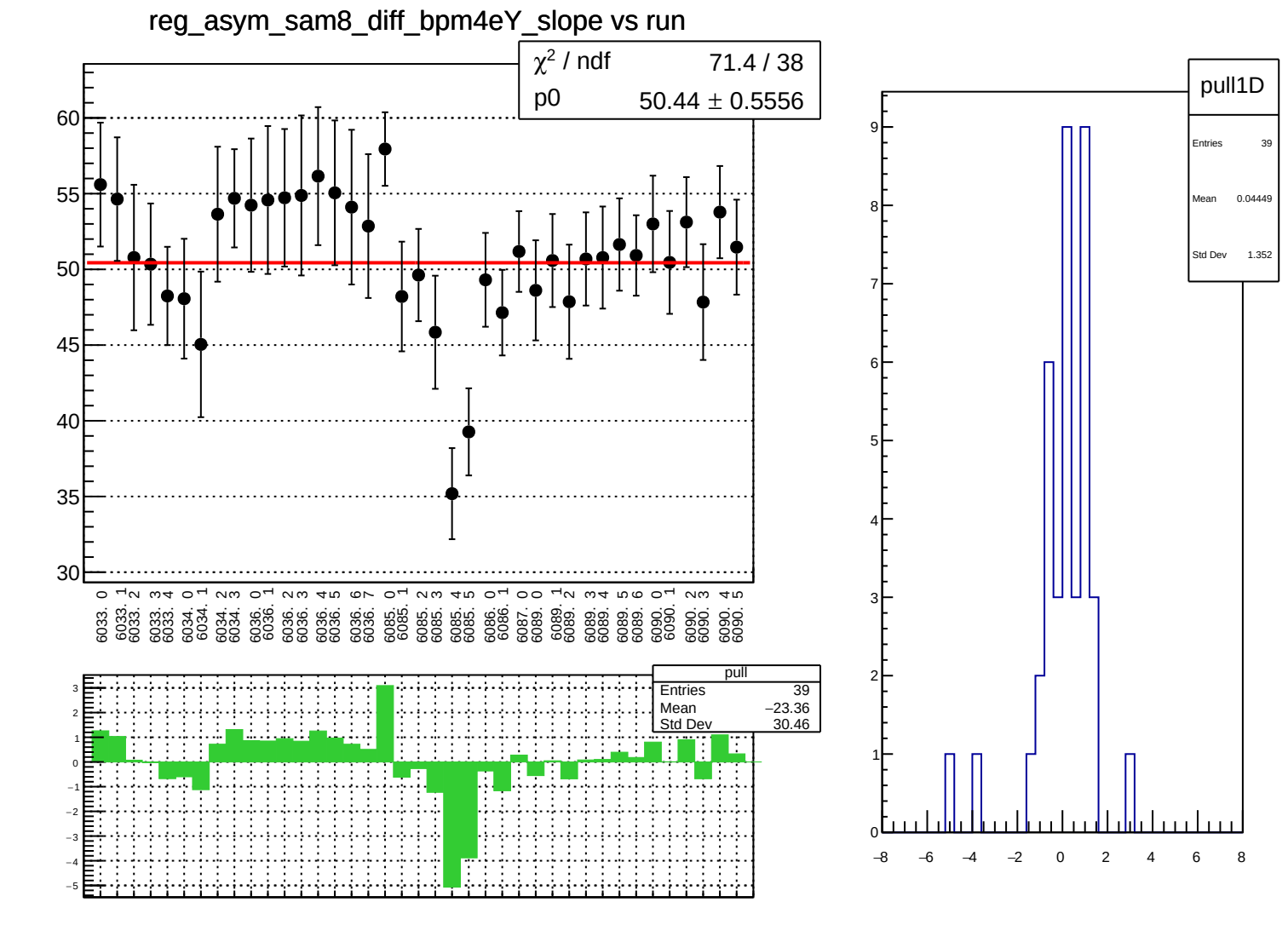

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 177 / 38
p0 15.2 ± 0.8176
30
20
10
0
−10
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 115.6
Std Dev 94.55
2
0
−2
−4
−6
−8

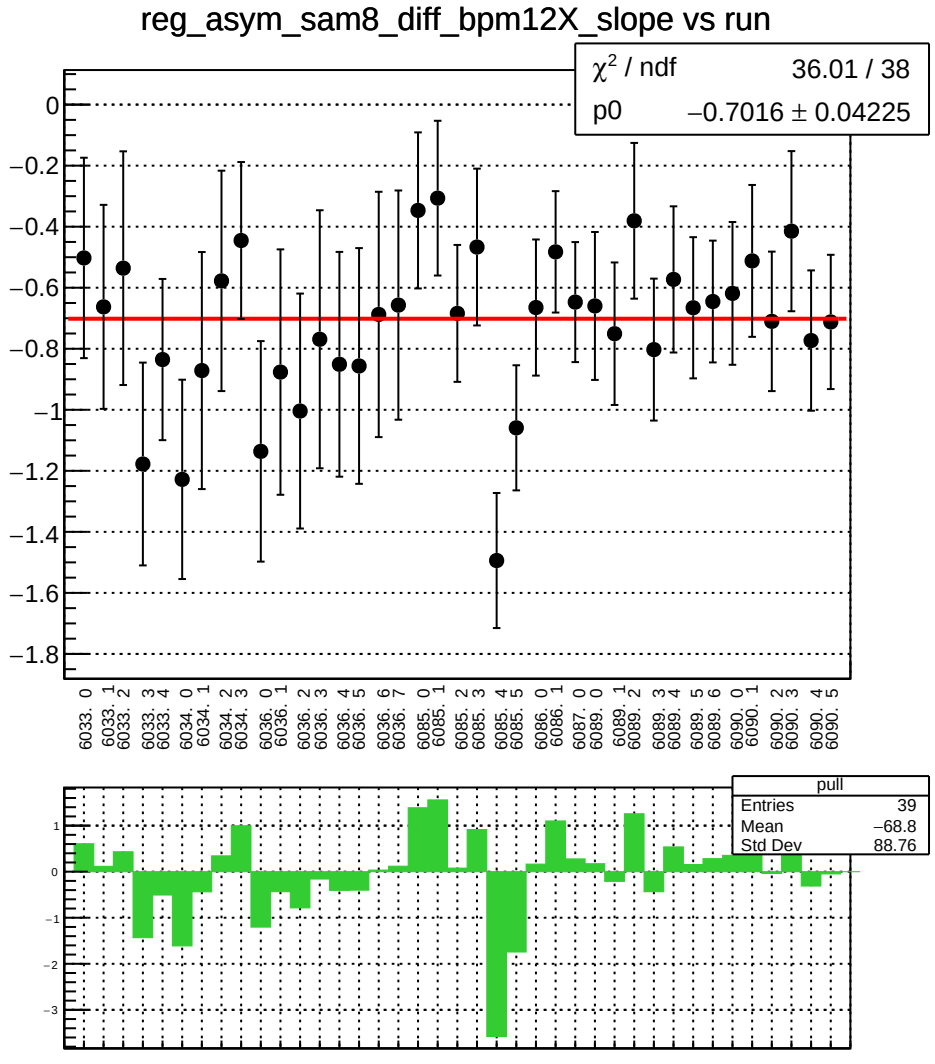

pull1D
Entries 39
Mean 0.3247
Std Dev 1.551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

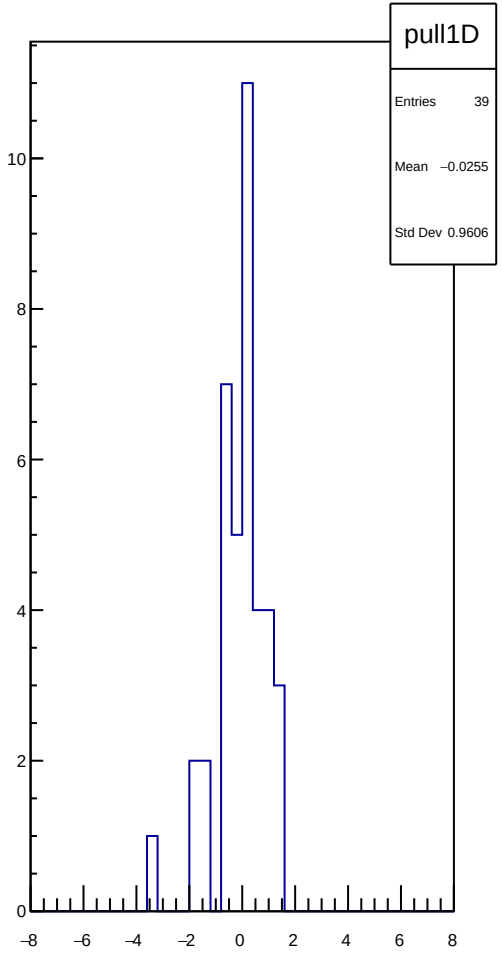

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 74.25 / 38
p0 −37.34 ± 0.5263
−20
−25
−30
−35
−40
−45
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −257.1
Std Dev 271.1
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.01091
Std Dev 1.38
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

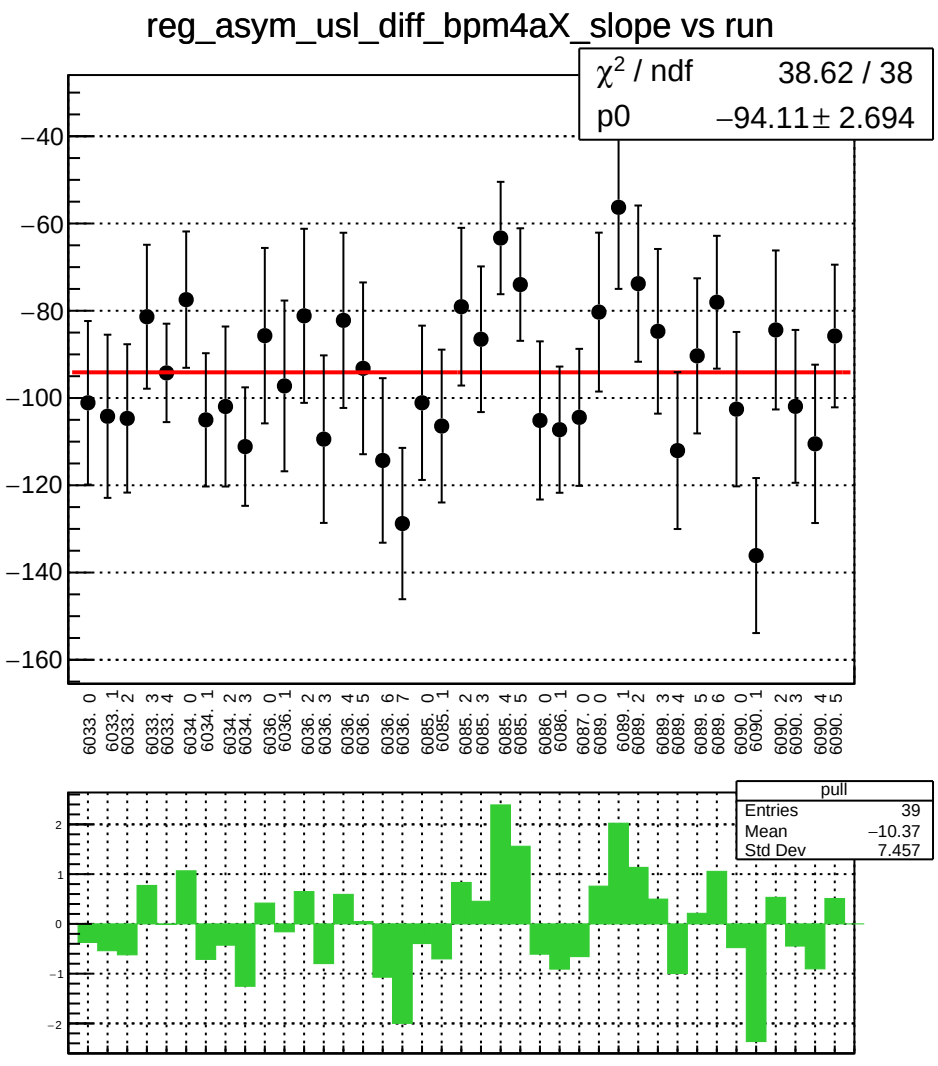

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 169.9 / 38
p0 −49.34 ± 0.9304
pull
Entries 39
Mean 47.85
Std Dev 23.02

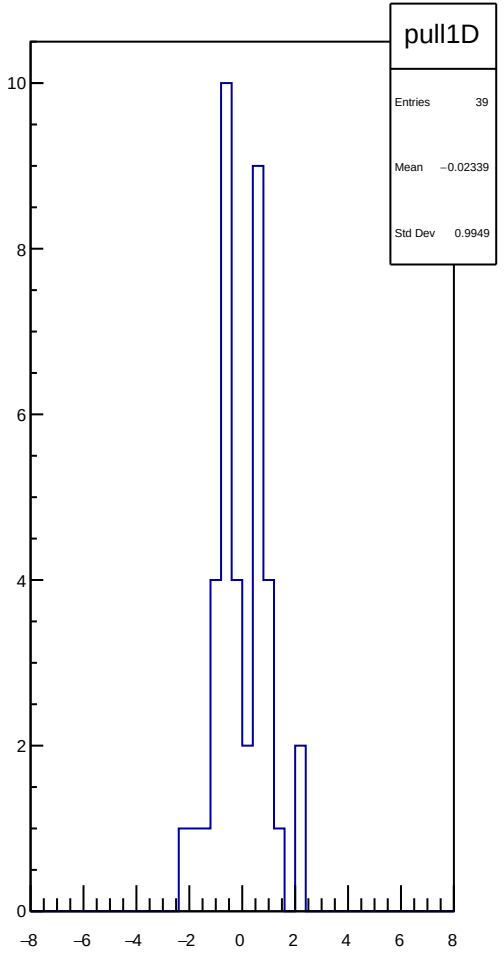

pull1D
Entries 39
Mean −0.4197
Std Dev 1.421

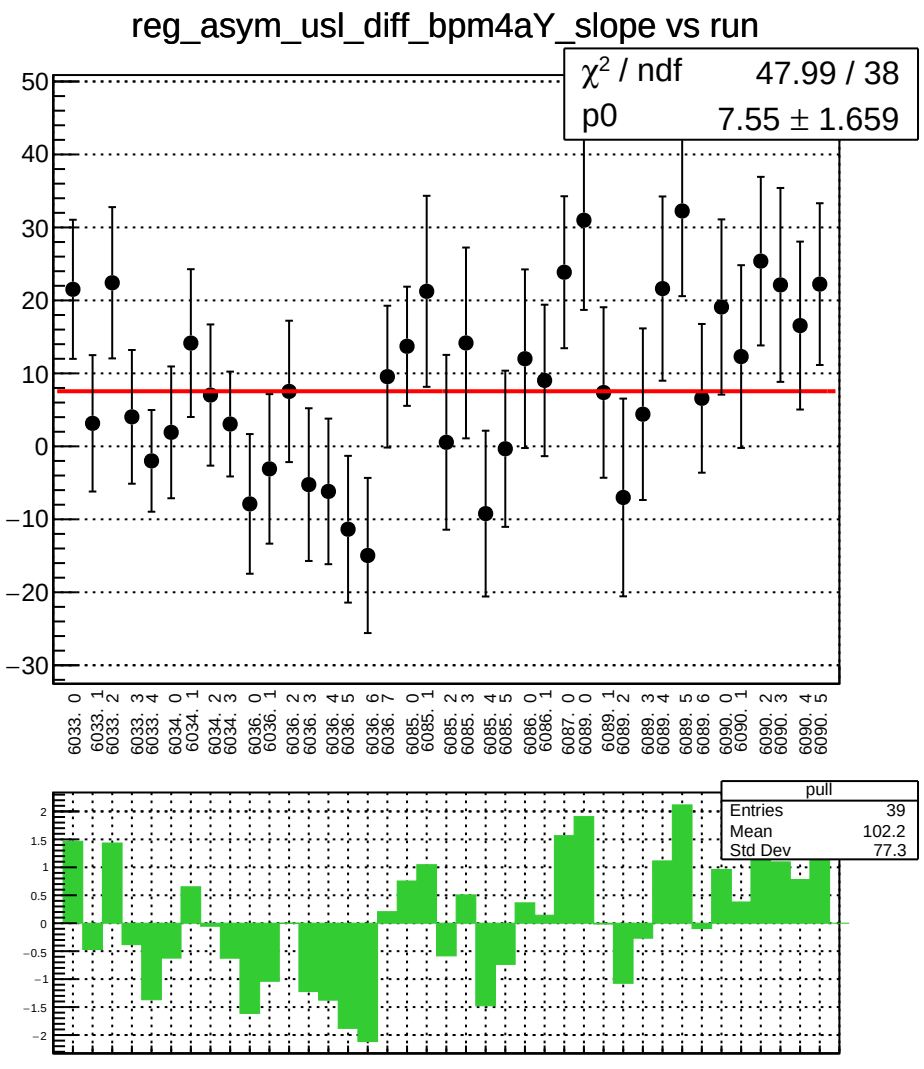

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 71.4 / 38
p0 50.44 ± 0.5556
pull
Entries 39
Mean −23.36
Std Dev 30.46
pull1D
Entries 39
Mean 0.04449
Std Dev 1.352

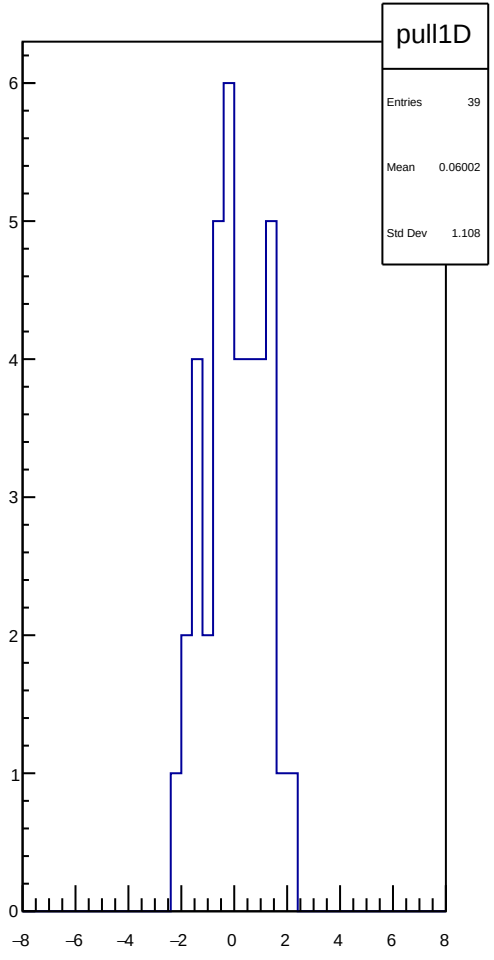

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 36.01 / 38
p0 −0.7016 ± 0.04225
pull
Entries 39
Mean −68.8
Std Dev 88.76

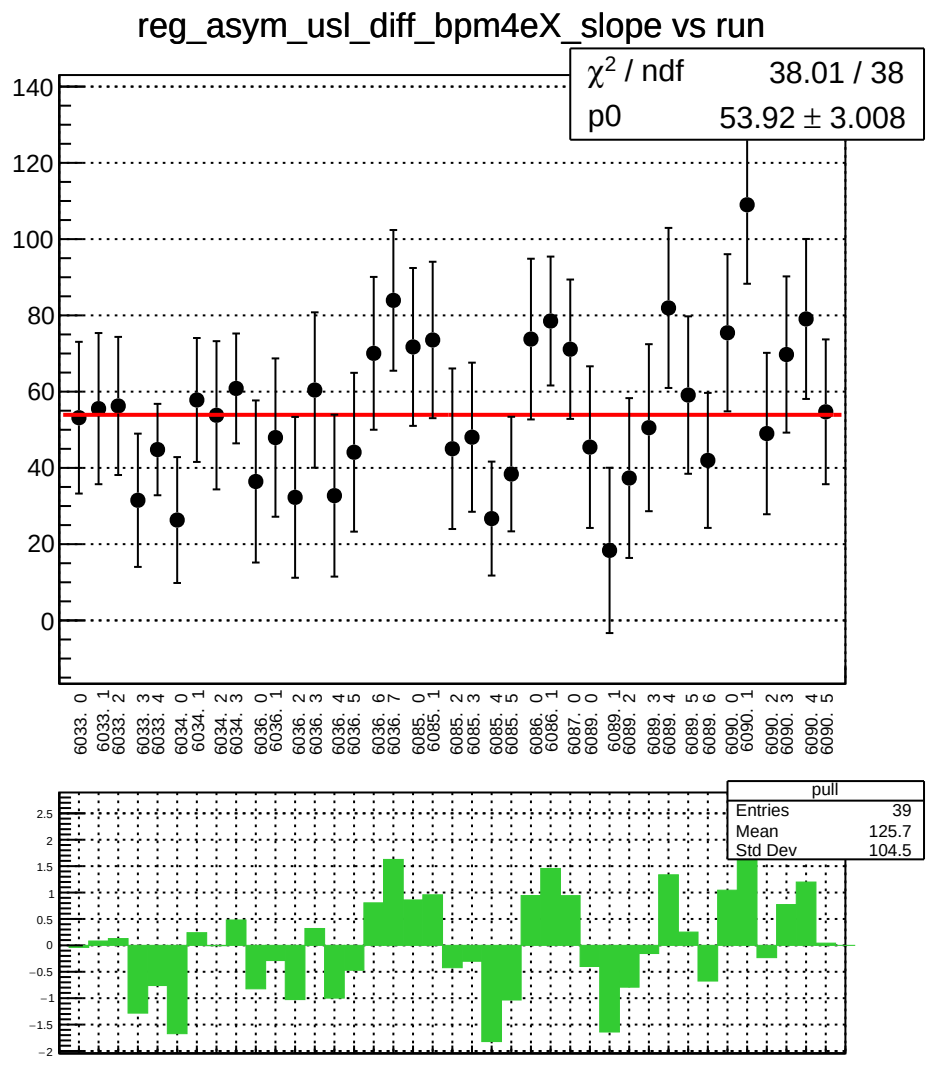

pull1D
Entries 39
Mean −0.0255
Std Dev 0.9606

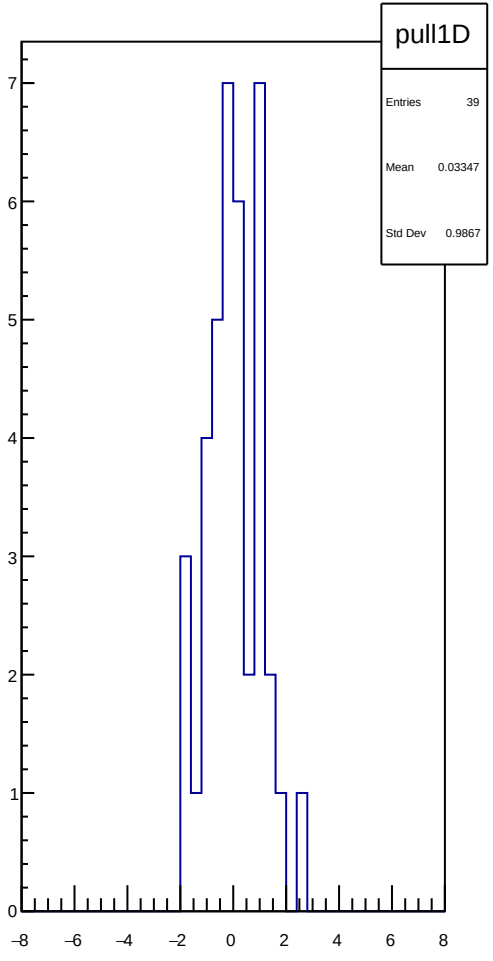

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 38.62 / 38
p0 −94.11 ± 2.694
−40
−60
−80
−100
−120
−140
−160
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −10.37
Std Dev 7.457
2
1
0
−1
−2

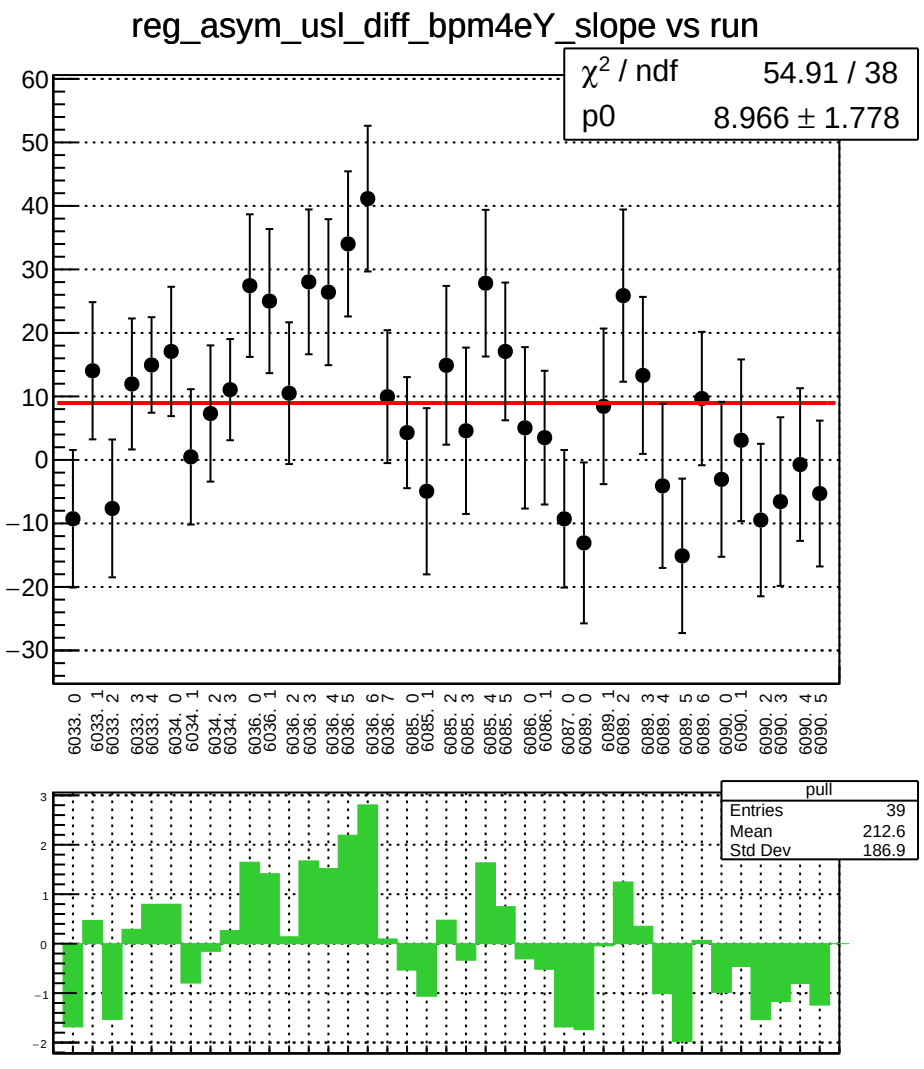

pull1D
Entries 39
Mean −0.02339
Std Dev 0.9949
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

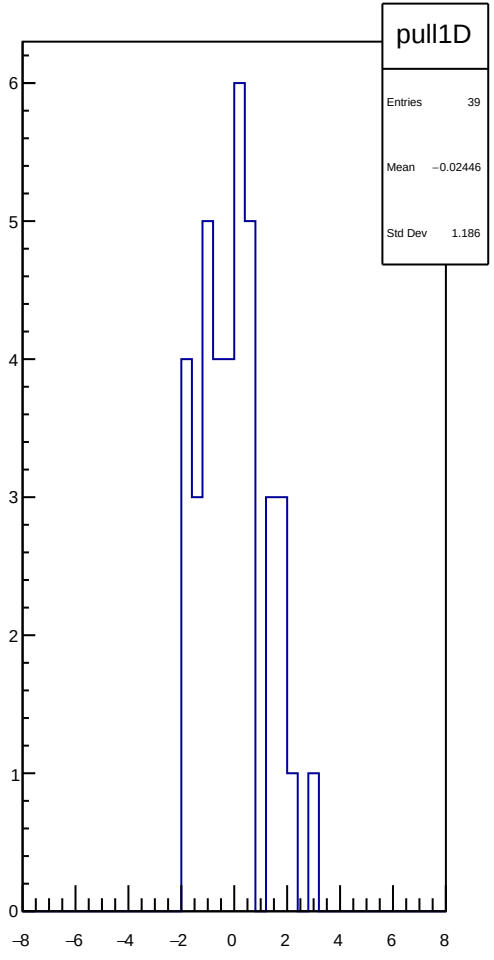

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 47.99 / 38
p0 7.55 ± 1.659
pull
Entries 39
Mean 102.2
Std Dev 77.3

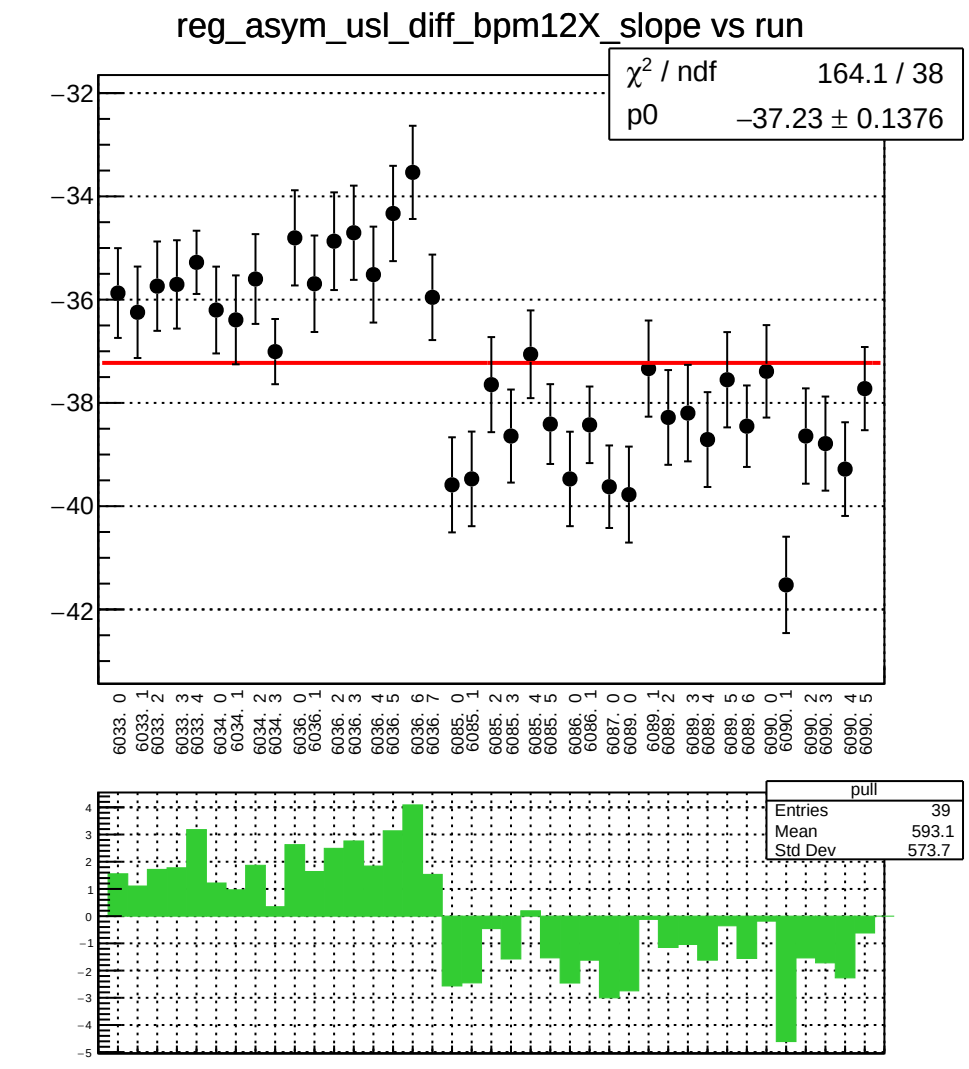

pull1D
Entries 39
Mean 0.06002
Std Dev 1.108

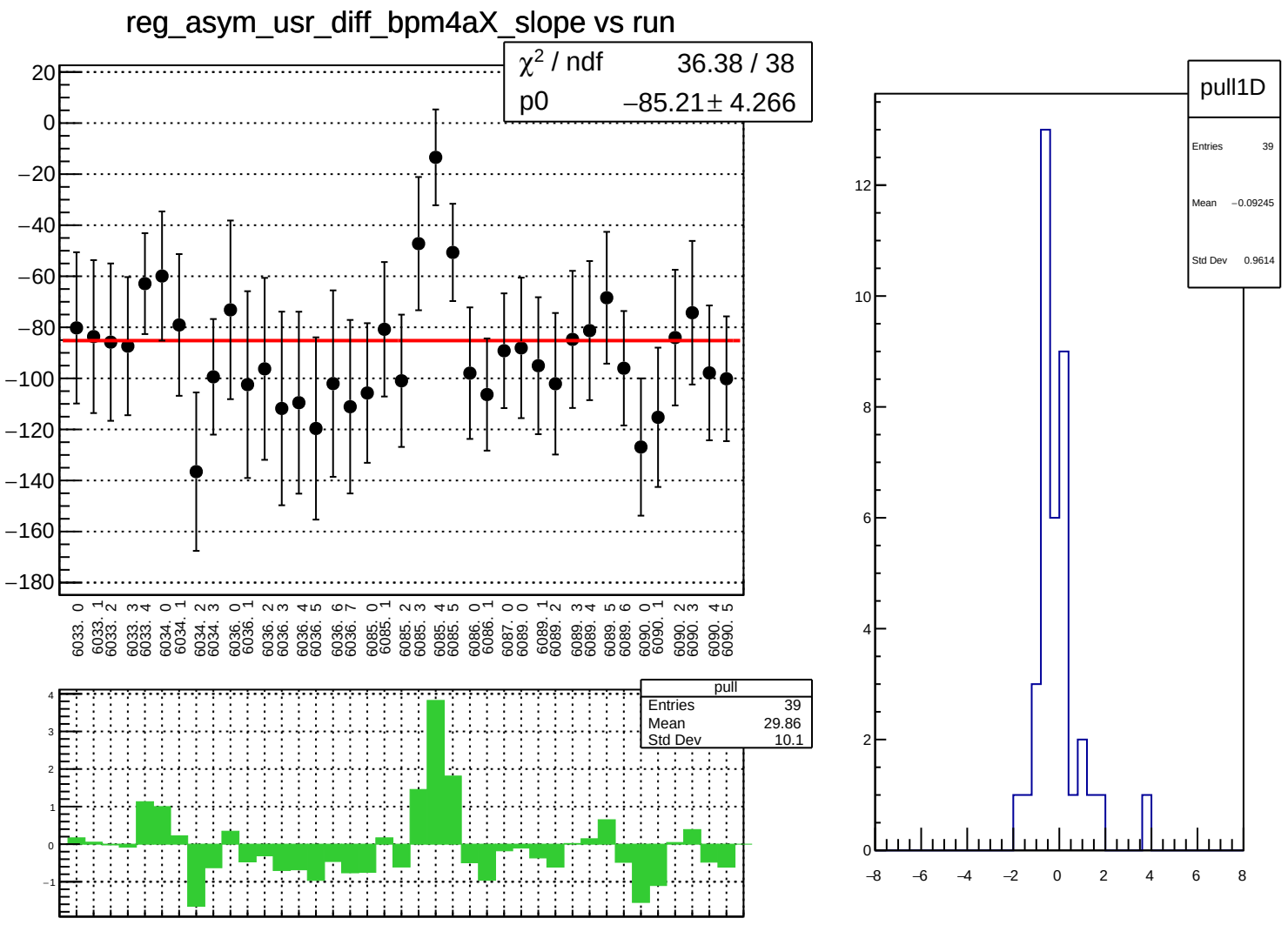

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 38.01 / 38
p0 53.92 ± 3.008
pull
Entries 39
Mean 125.7
Std Dev 104.5

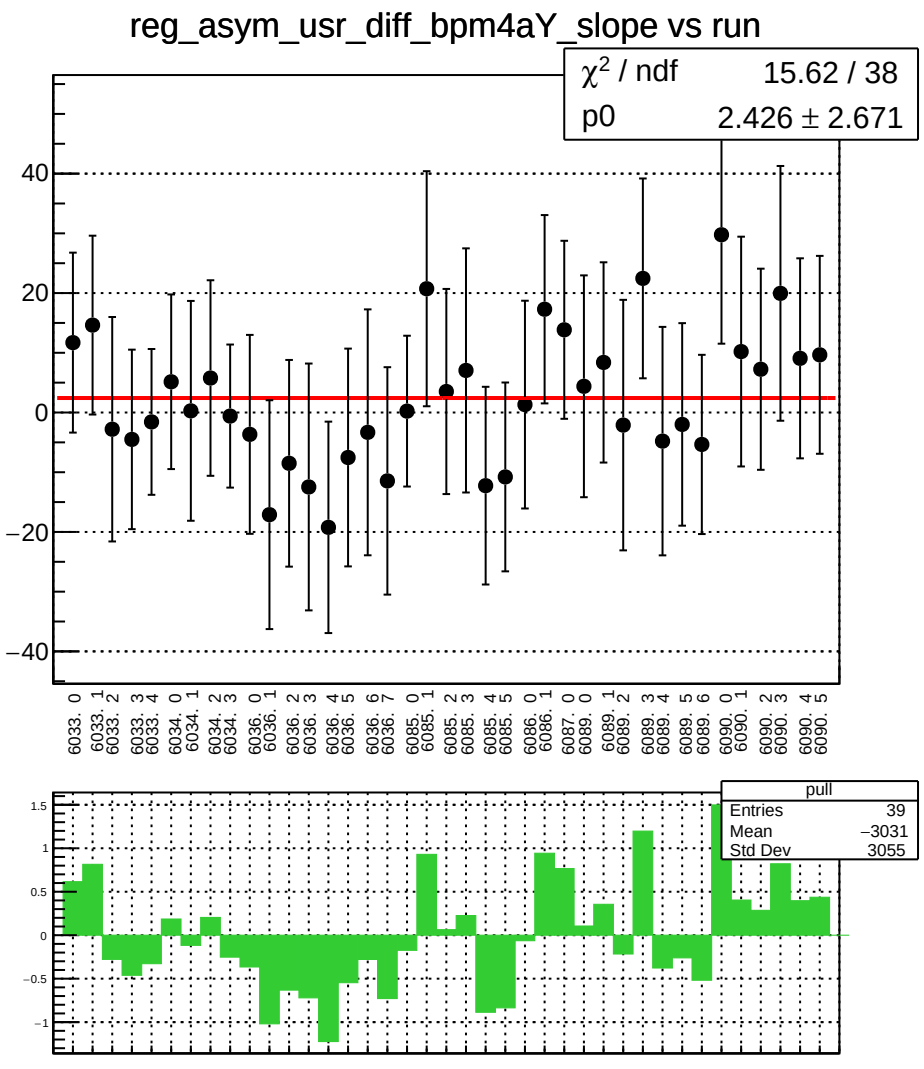

pull1D
Entries 39
Mean 0.03347
Std Dev 0.9867

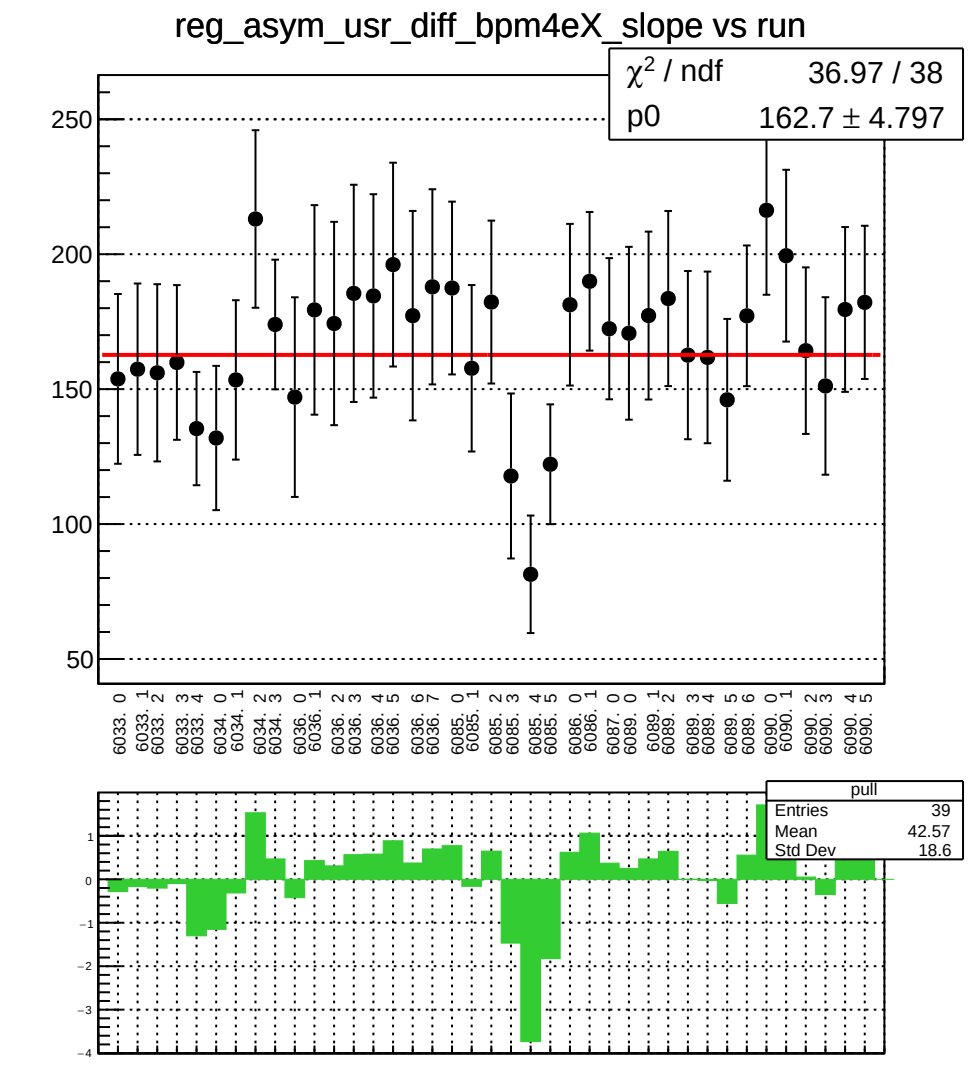

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 54.91 / 38
p0 8.966 ± 1.778
pull
Entries 39
Mean 212.6
Std Dev 186.9

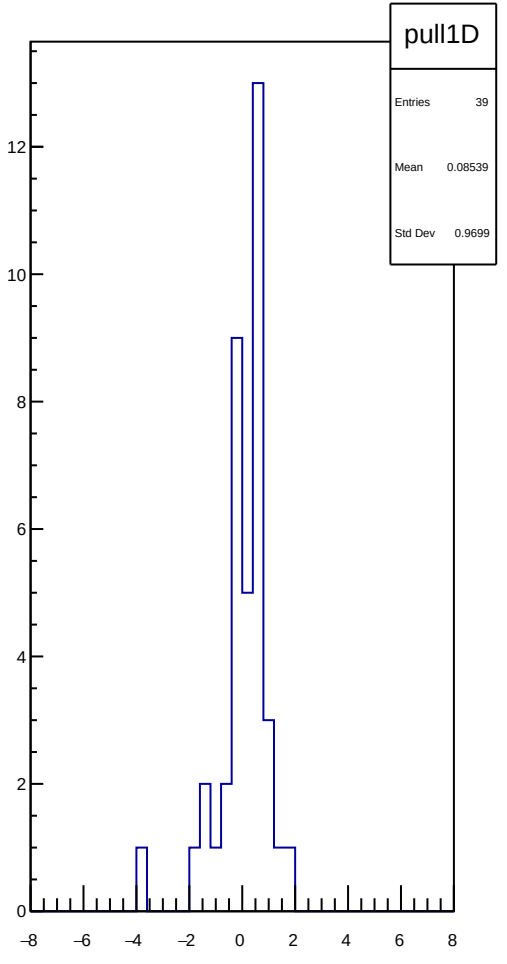

pull1D
Entries 39
Mean −0.02446
Std Dev 1.186

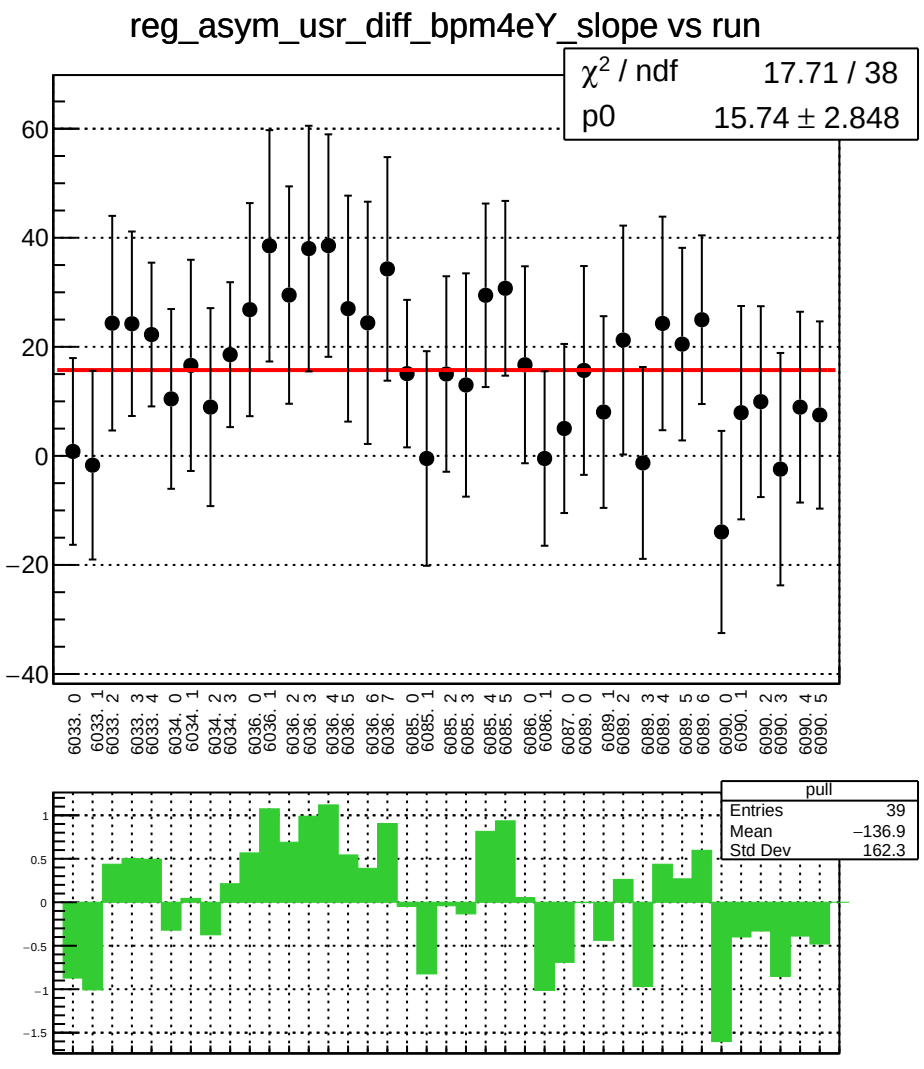

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 164.1 / 38
p0 −37.23 ± 0.1376
−32
−34
−36
−38
−40
−42
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 593.1
Std Dev 573.7
pull1D
Entries 39
Mean −0.02834
Std Dev 2.051

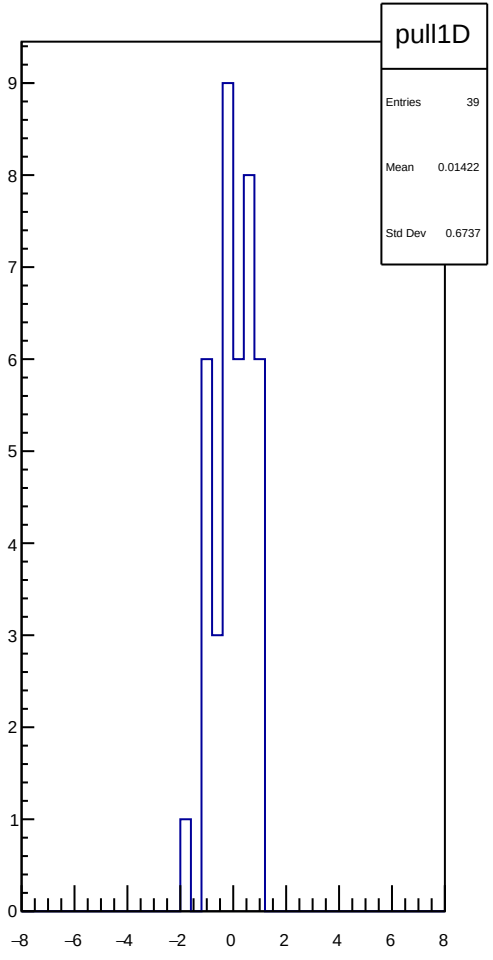

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 36.38 / 38
p0 −85.21 ± 4.266
pull
Entries 39
Mean 29.86
Std Dev 10.1
pull1D
Entries 39
Mean −0.09245
Std Dev 0.9614

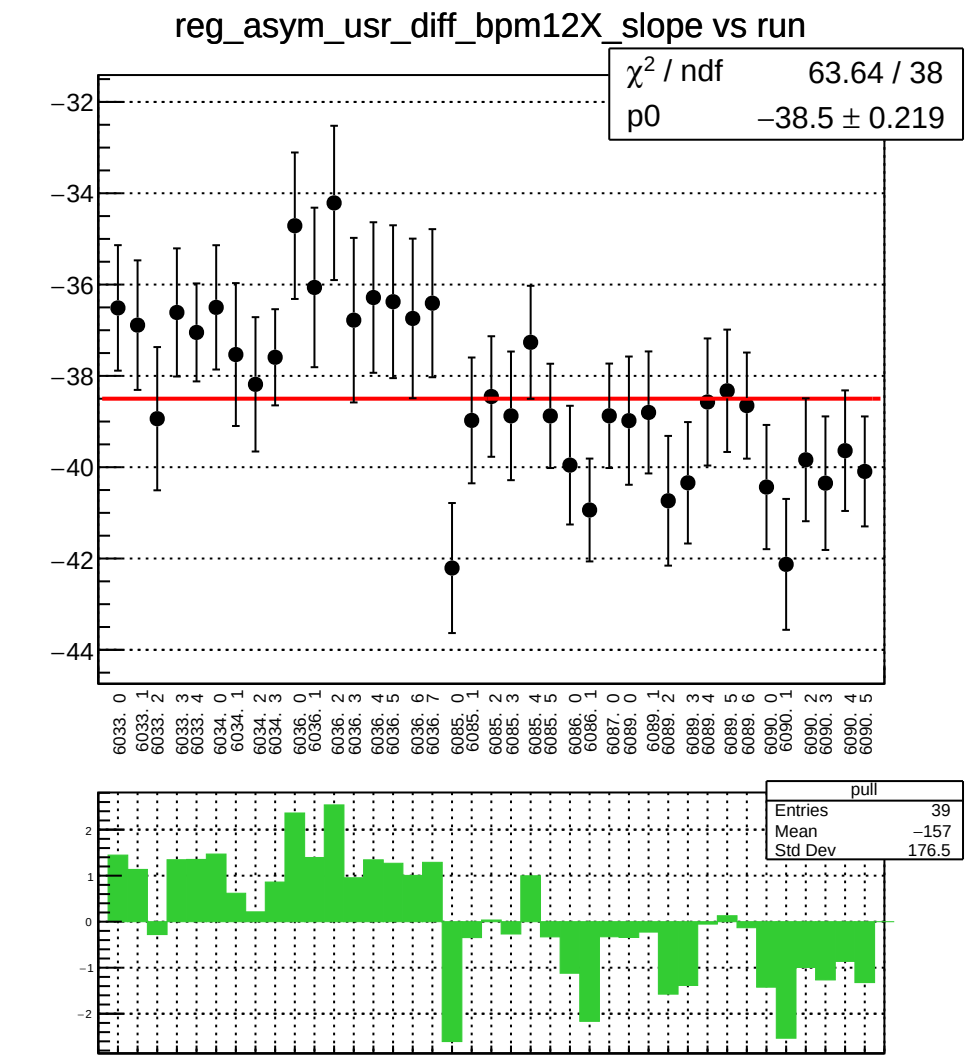

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 15.62 / 38
p0 2.426 ± 2.671
40
20
0
−20
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −3031
Std Dev 3055
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.0007669
Std Dev 0.6328
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

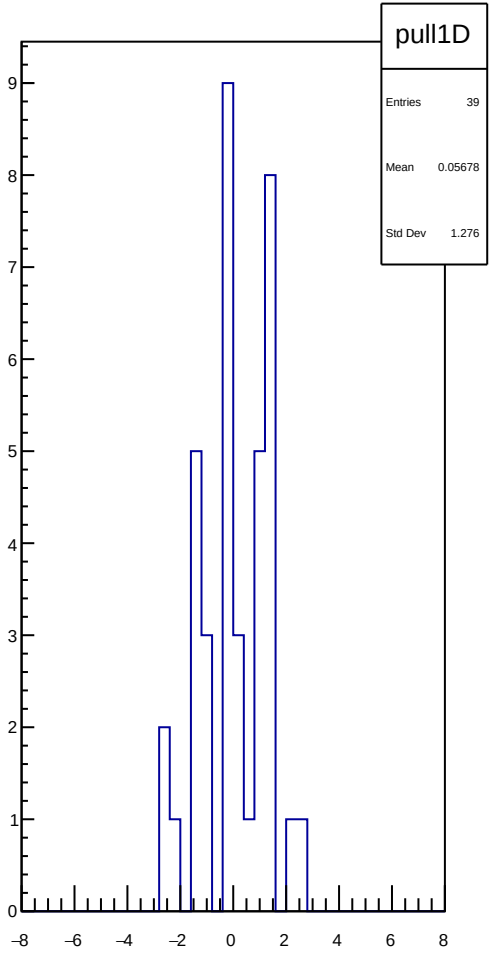

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 36.97 / 38
p0 162.7 ± 4.797
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 42.57
Std Dev 18.6
1
0
−1
−2
−3
−4

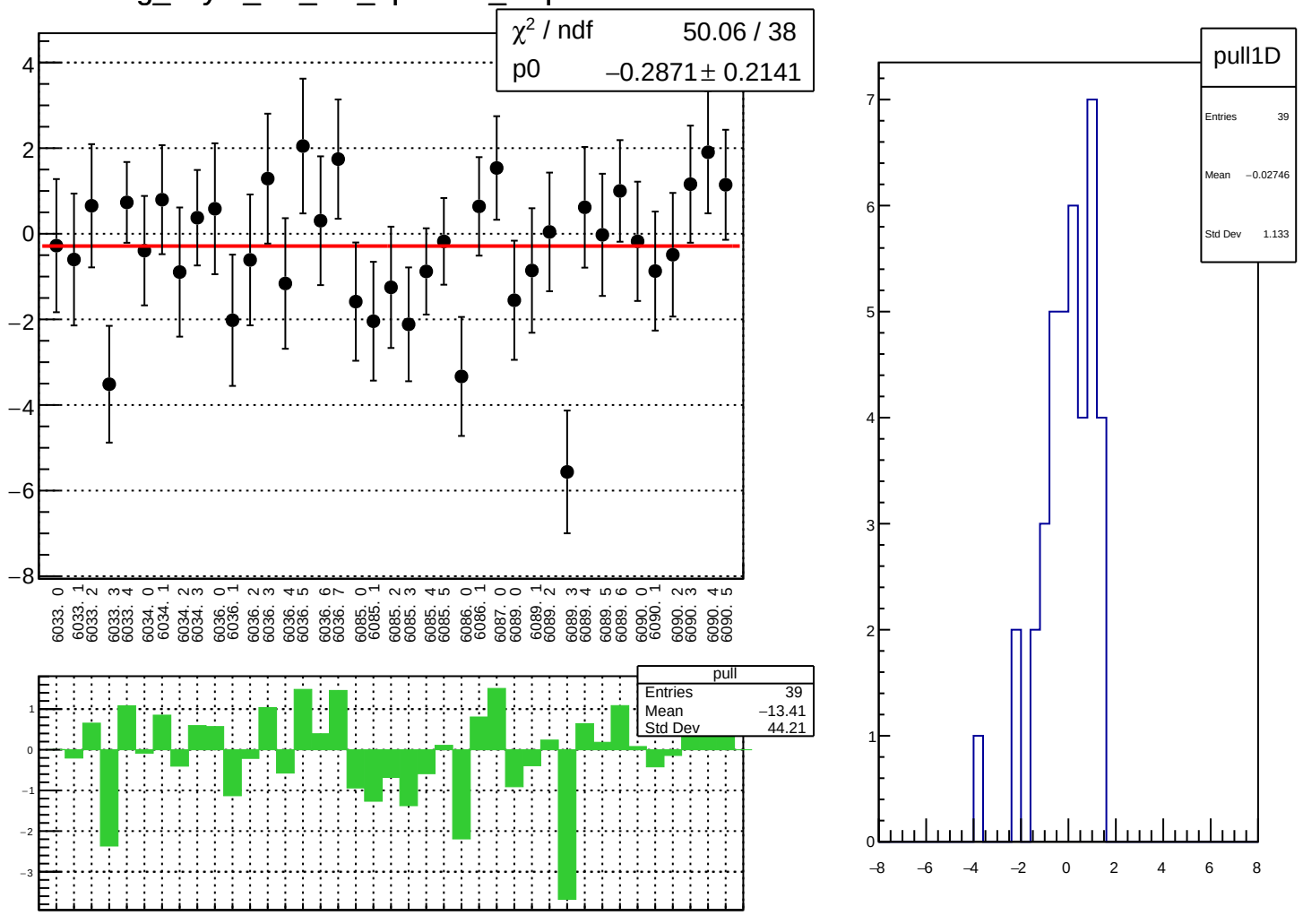

pull1D
Entries 39
Mean 0.08539
Std Dev 0.9699
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

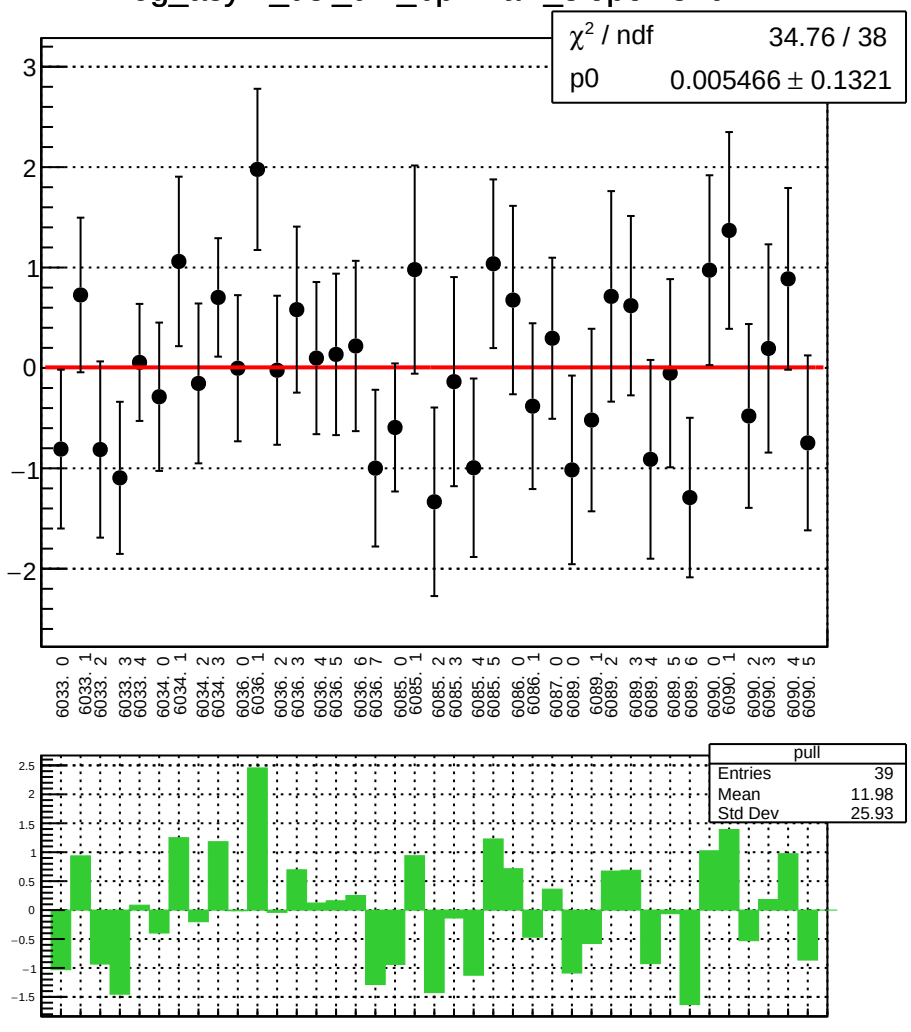

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 17.71 / 38
p0 15.74 ± 2.848
pull
Entries 39
Mean −136.9
Std Dev 162.3

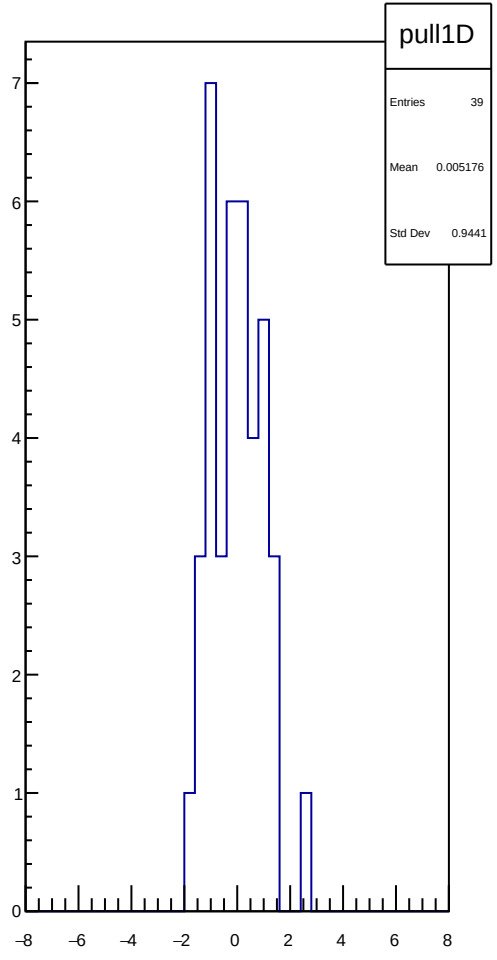

pull1D
Entries 39
Mean 0.01422
Std Dev 0.6737

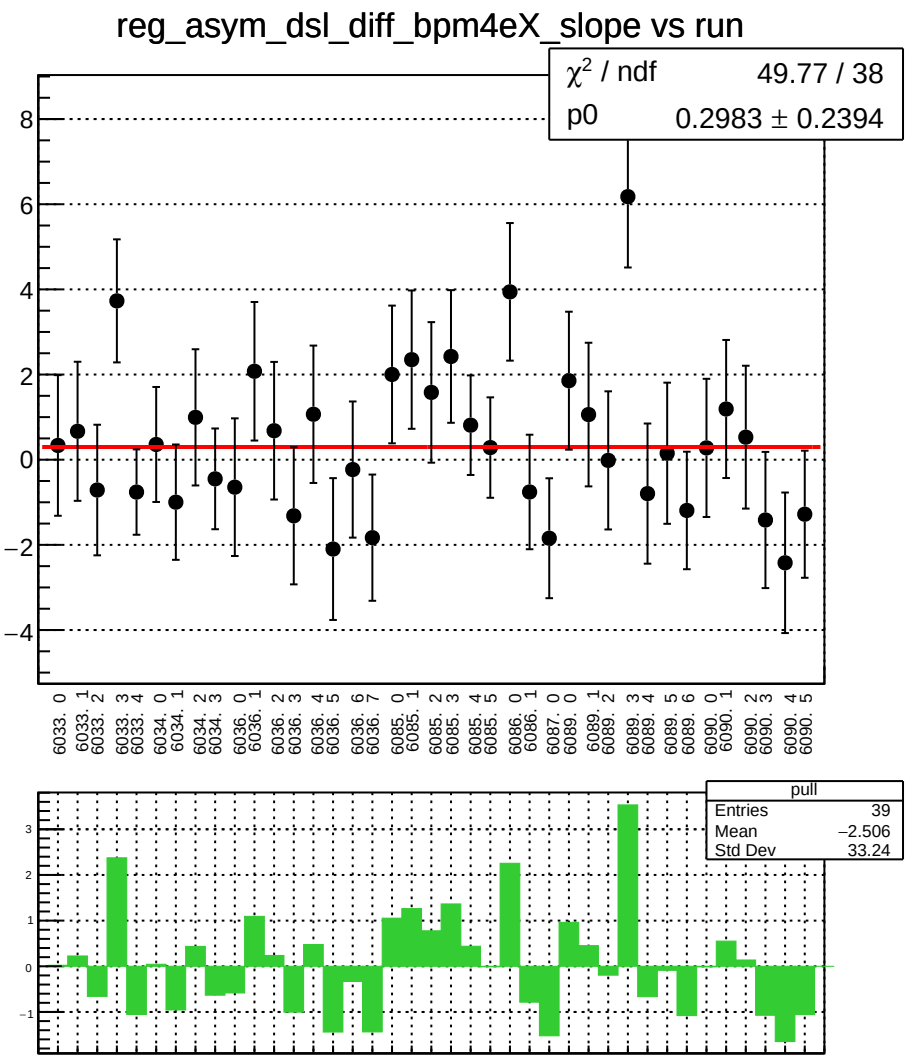

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 63.64 / 38
p0 −38.5 ± 0.219
−32
−34
−36
−38
−40
−42
−44
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −157
Std Dev 176.5
2
1
0
−1
−2

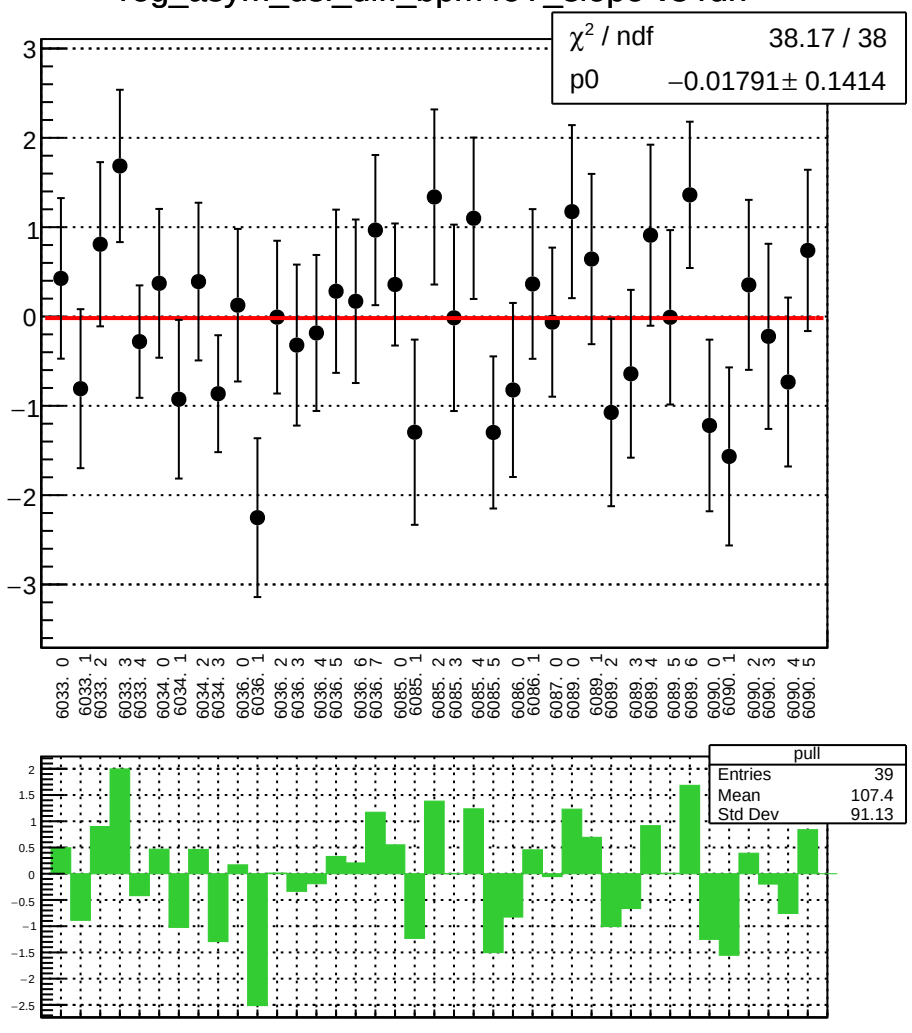

pull1D
Entries 39
Mean 0.05678
Std Dev 1.276
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

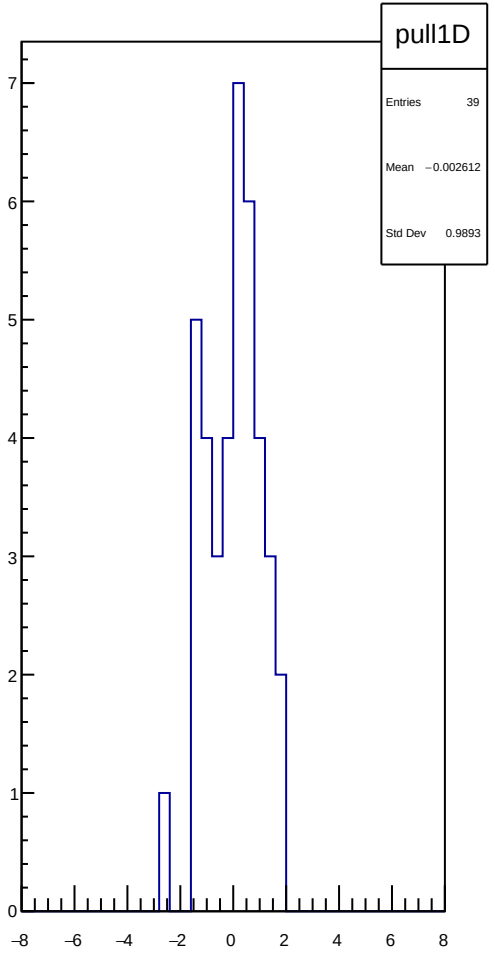

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 50.06 / 38
p0 −0.2871 ± 0.2141
pull
Entries 39
Mean −13.41
Std Dev 44.21
pull1D
Entries 39
Mean −0.02746
Std Dev 1.133

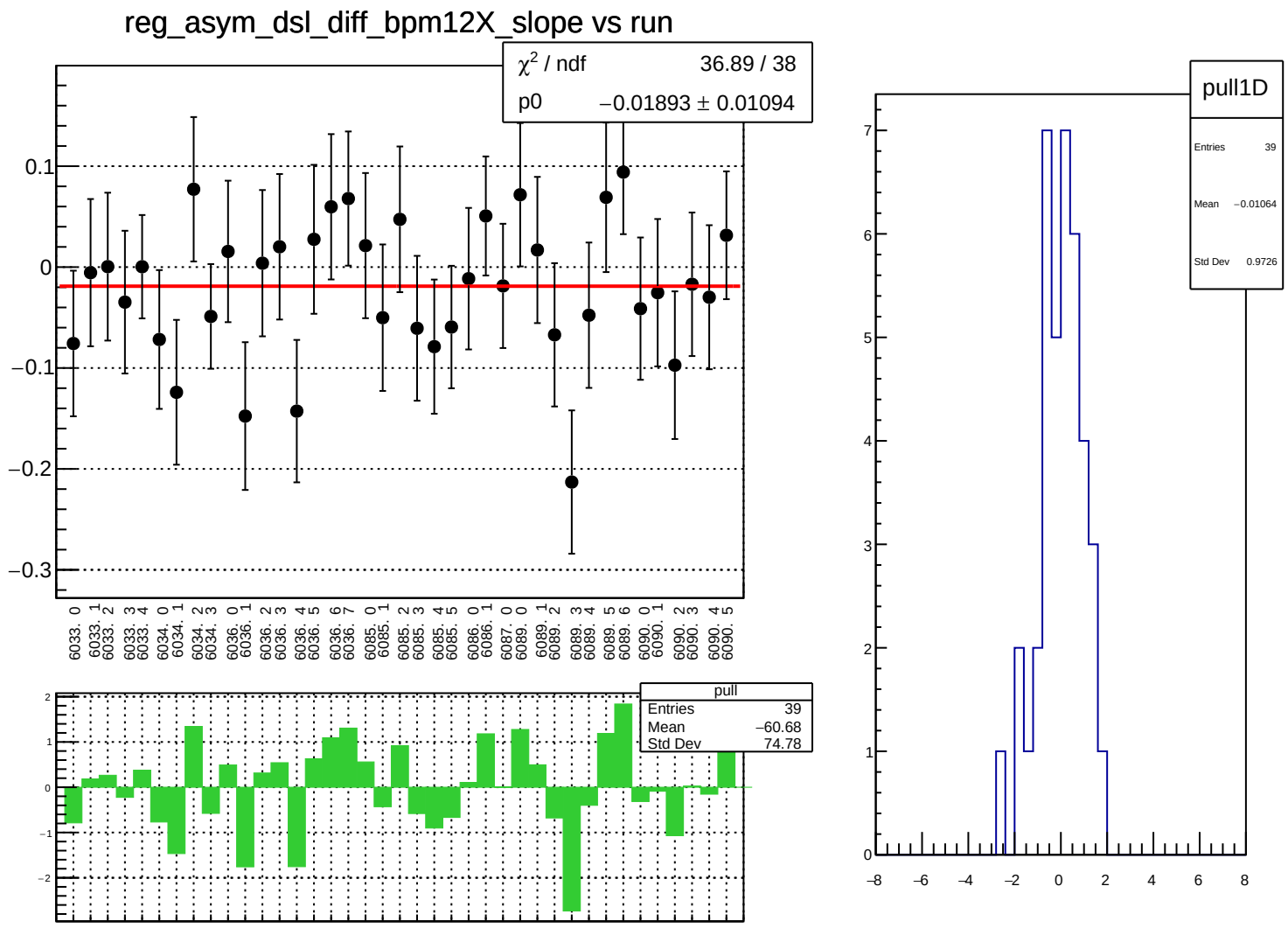

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 34.76 / 38
p0 0.005466 ± 0.1321
pull
Entries 39
Mean 11.98
Std Dev 25.93

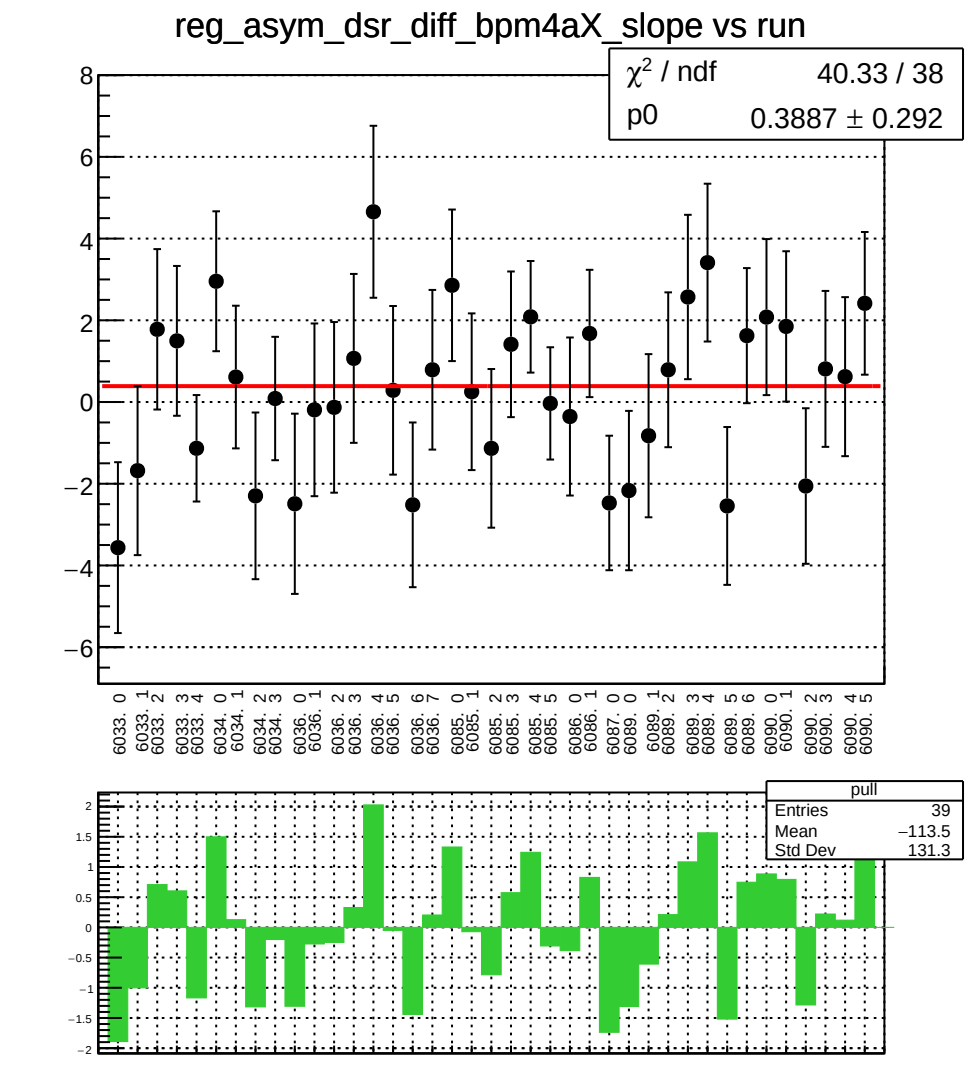

pull1D
Entries 39
Mean 0.005176
Std Dev 0.9441

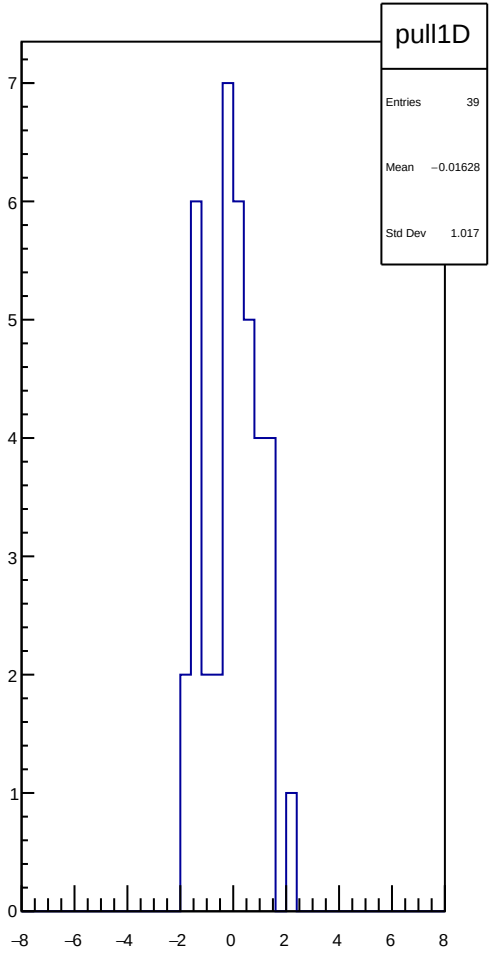

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 49.77 / 38
p0 0.2983 ± 0.2394
8
6
4
2
0
−2
−4
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −2.506
Std Dev 33.24
3
2
1
0
−1
pull1D
Entries 39
Mean 0.0375
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

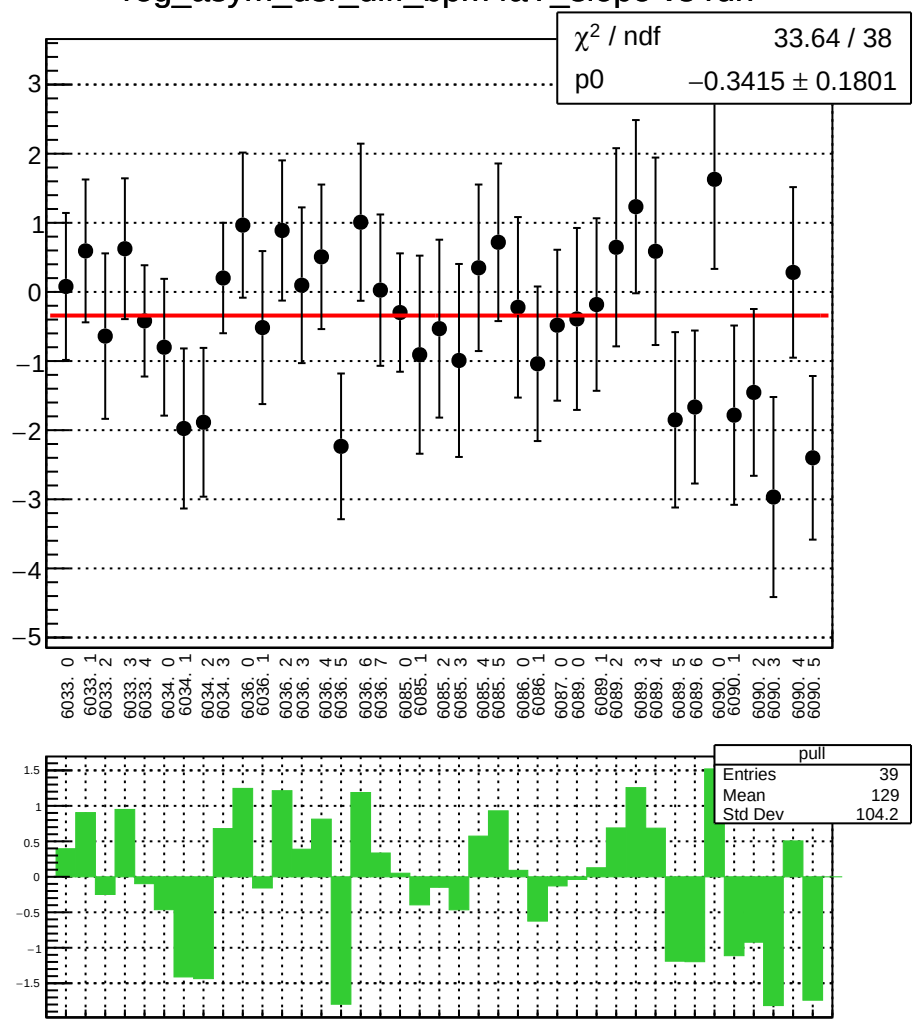

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 38.17 / 38
p0 −0.01791± 0.1414
pull
Entries 39
Mean 107.4
Std Dev 91.13

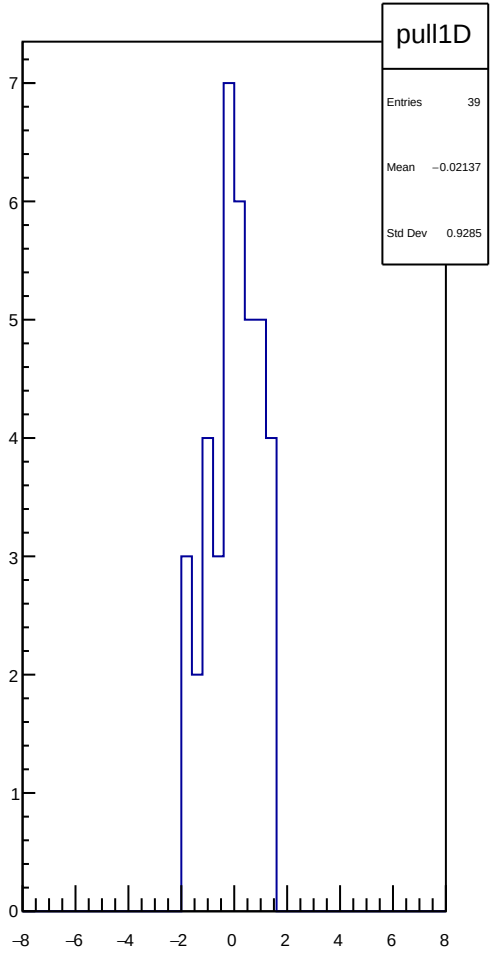

pull1D
Entries 39
Mean −0.002612
Std Dev 0.9893

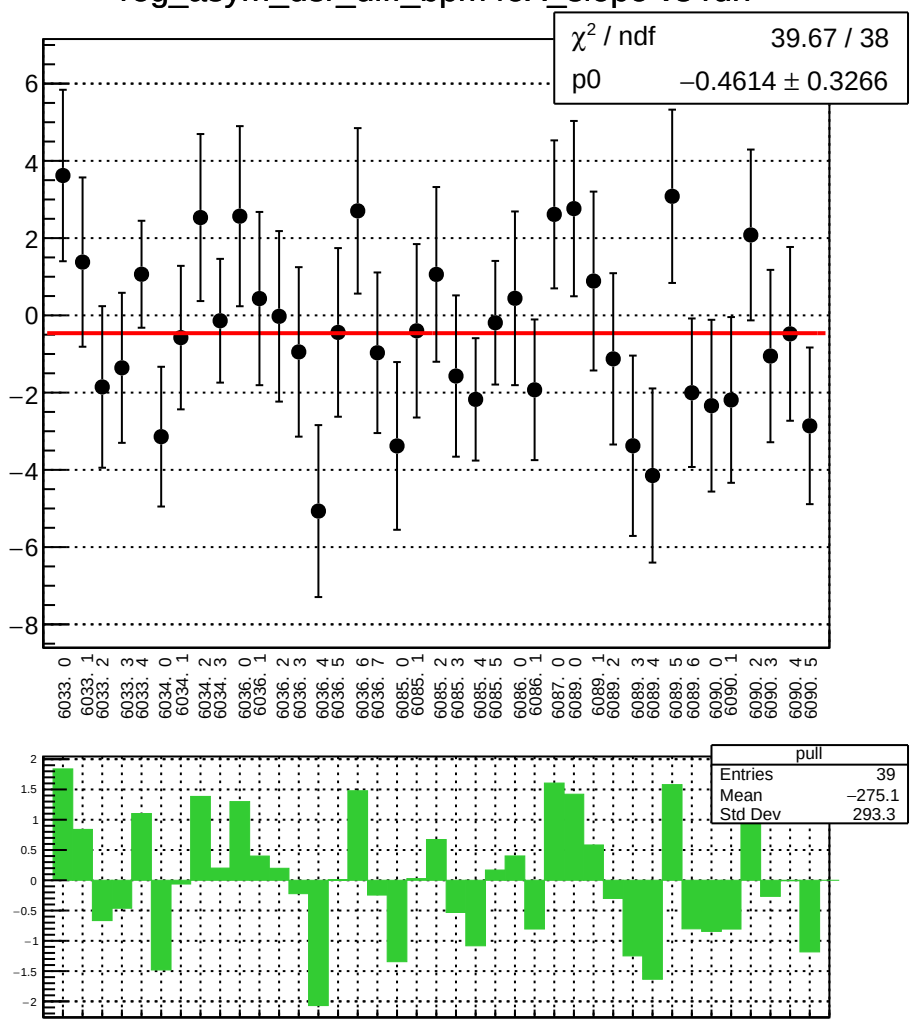

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 36.89 / 38
p0 −0.01893 ± 0.01094
0.1
0
−0.1
−0.2
−0.3
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −60.68
Std Dev 74.78
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01064
Std Dev 0.9726
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

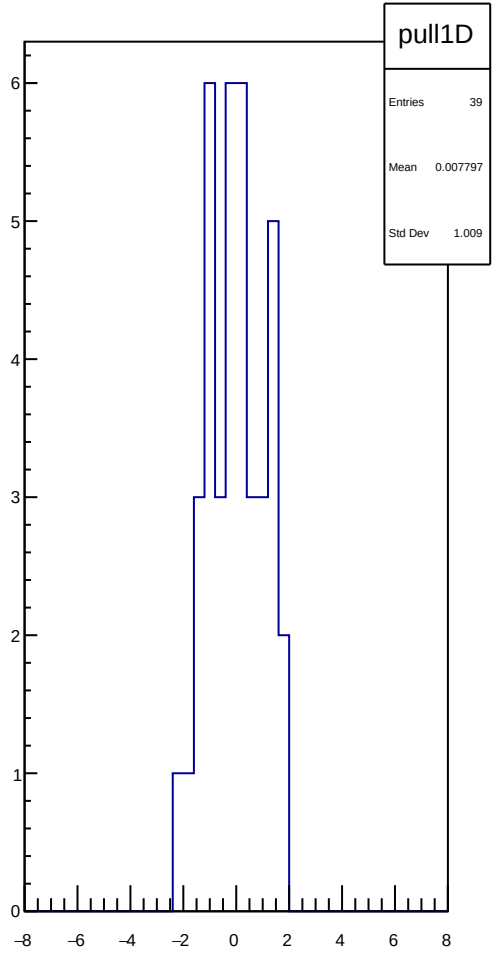

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 40.33 / 38
p0 0.3887 ± 0.292
pull
Entries 39
Mean −113.5
Std Dev 131.3

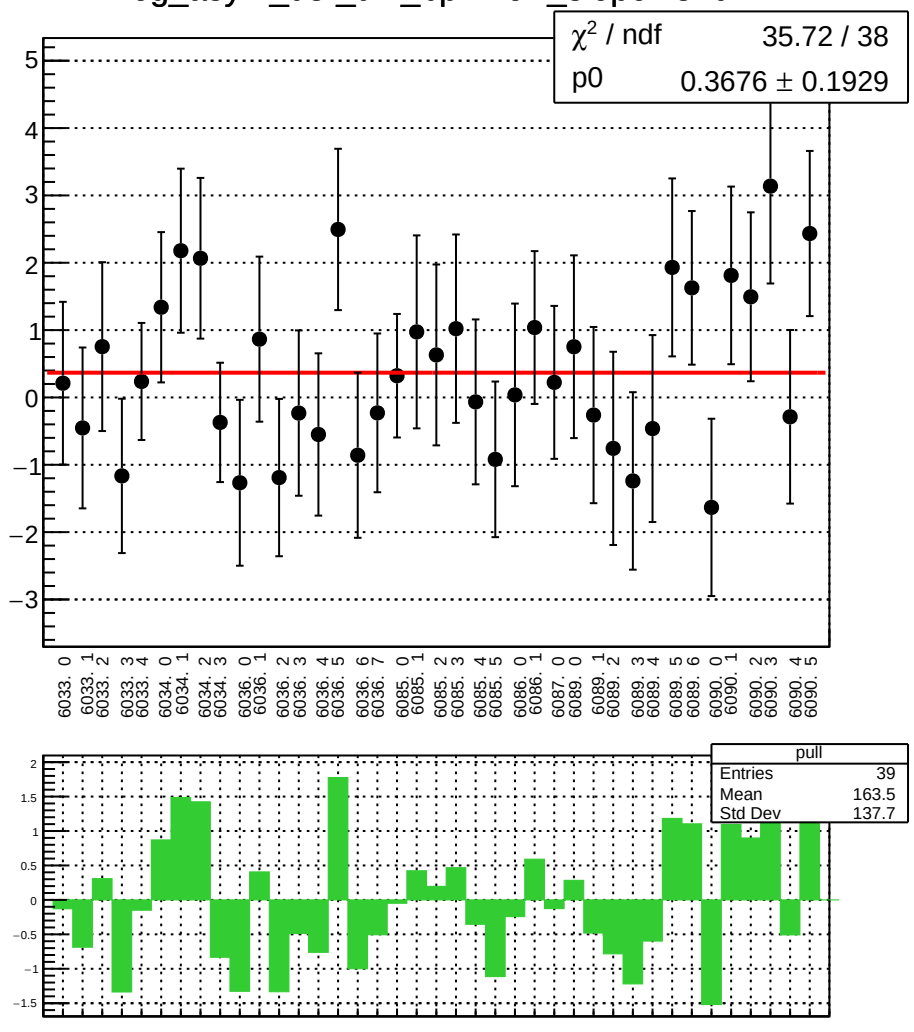

pull1D
Entries 39
Mean −0.01628
Std Dev 1.017

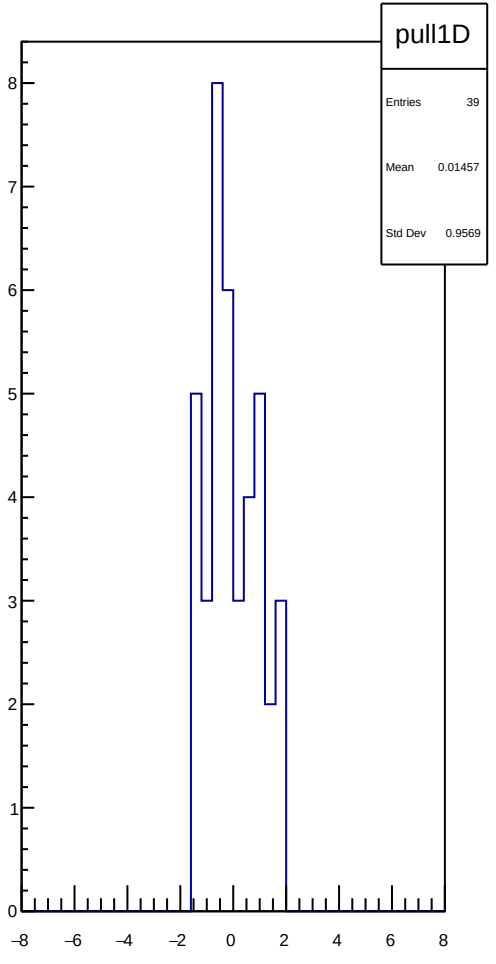

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 33.64 / 38
p0 −0.3415 ± 0.1801
pull
Entries 39
Mean 129
Std Dev 104.2

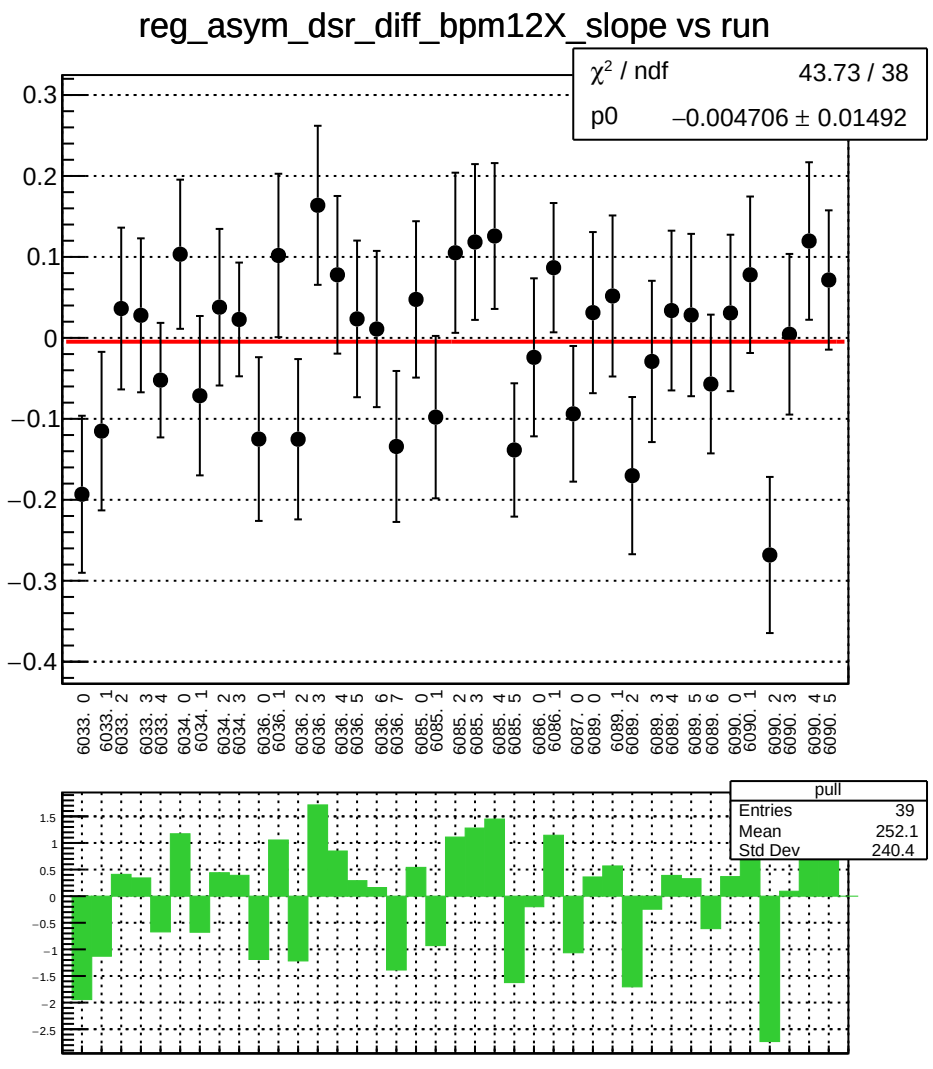

pull1D
Entries 39
Mean −0.02137
Std Dev 0.9285

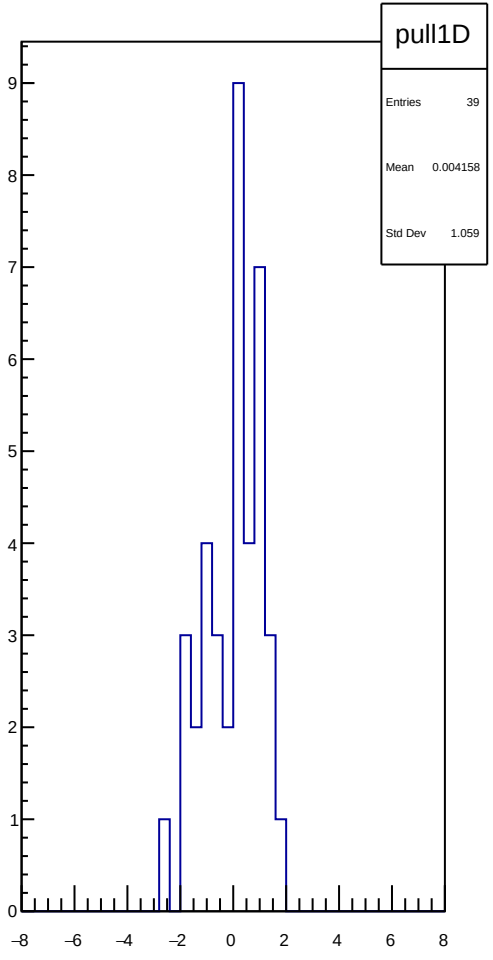

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 39.67 / 38
p0 −0.4614 ± 0.3266
pull
Entries 39
Mean −275.1
Std Dev 293.3

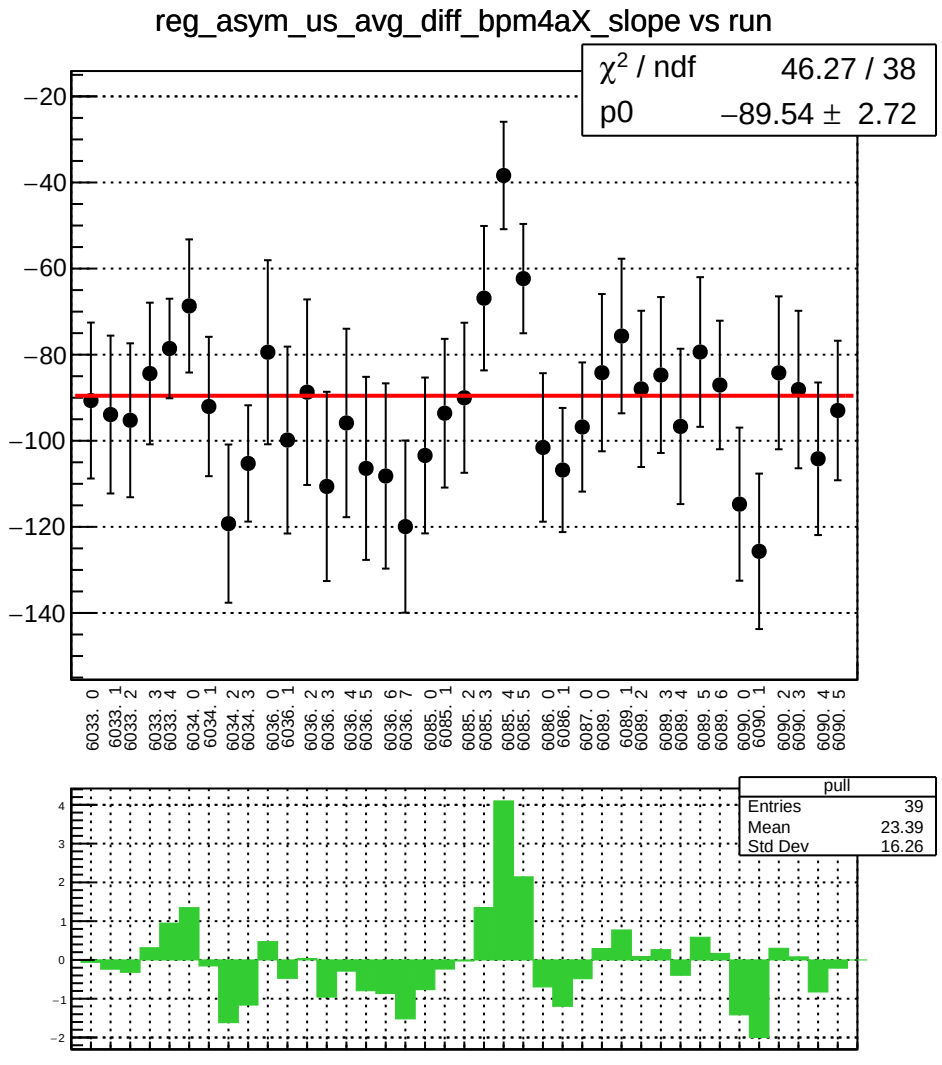

pull1D
Entries 39
Mean 0.007797
Std Dev 1.009

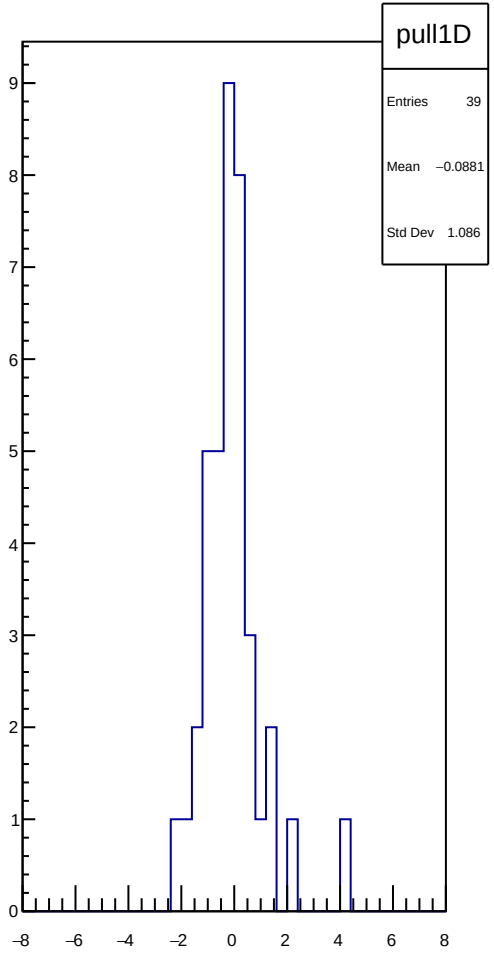

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 35.72 / 38
p0 0.3676 ± 0.1929
pull
Entries 39
Mean 163.5
Std Dev 137.7

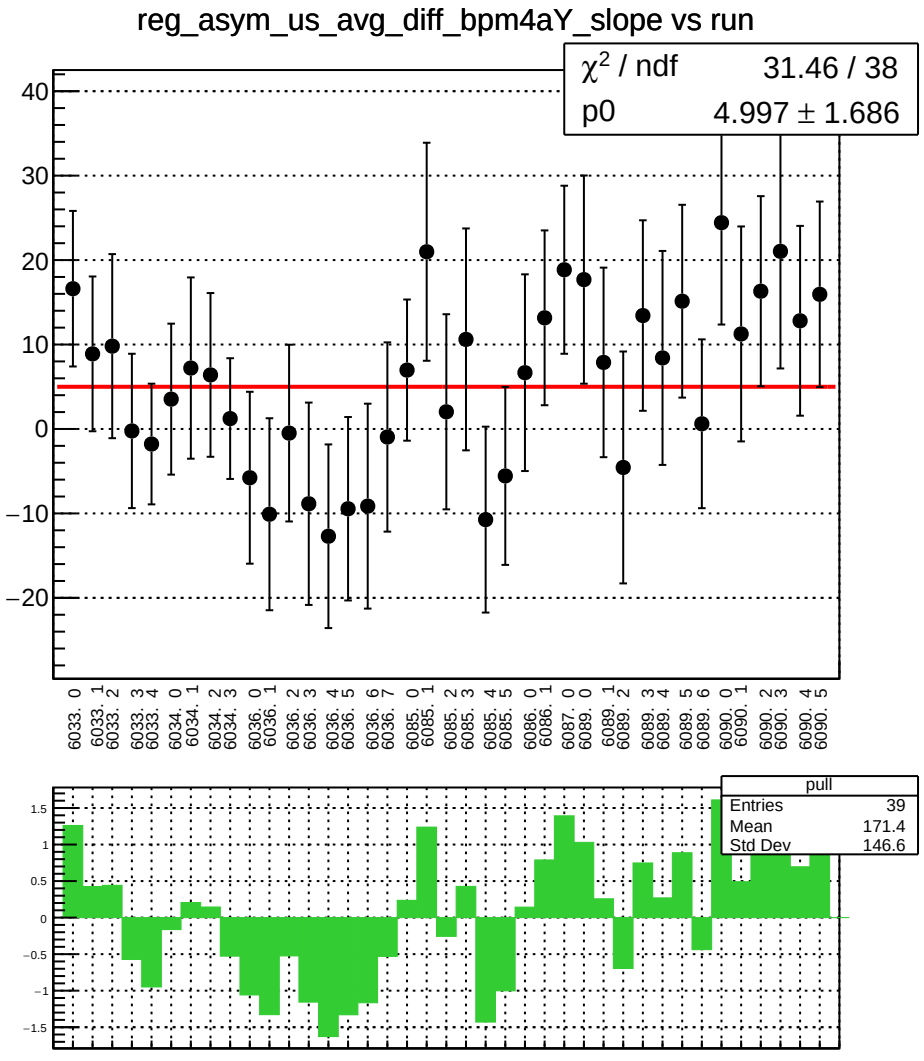

pull1D
Entries 39
Mean 0.01457
Std Dev 0.9569

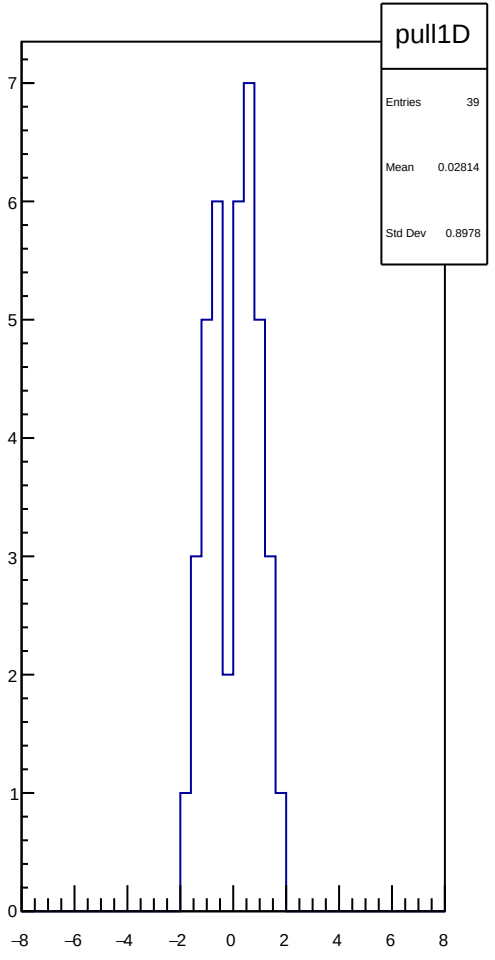

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 43.73 / 38
p0 −0.004706 ± 0.01492
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 252.1
Std Dev 240.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

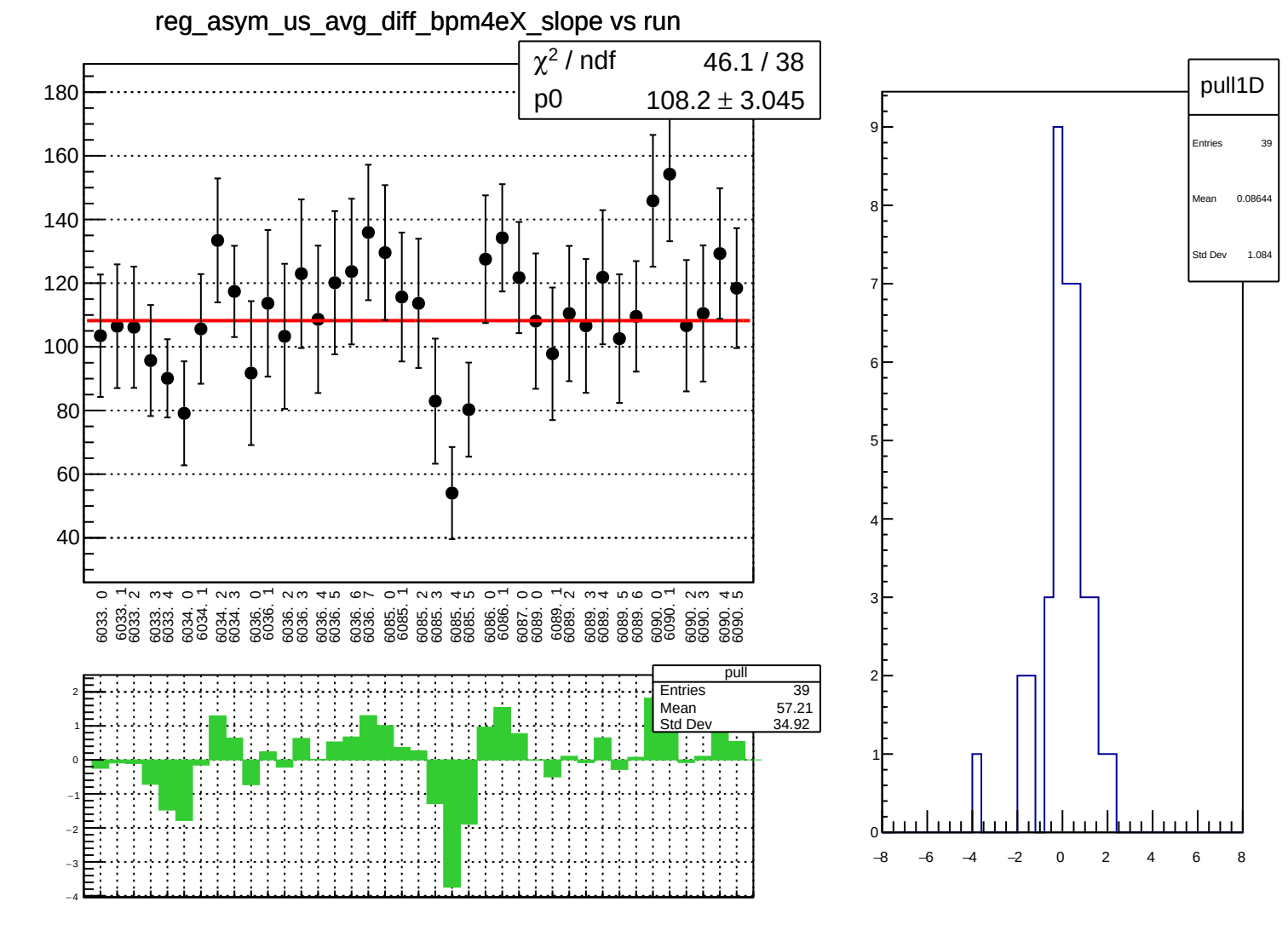

pull1D
Entries 39
Mean 0.004158
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

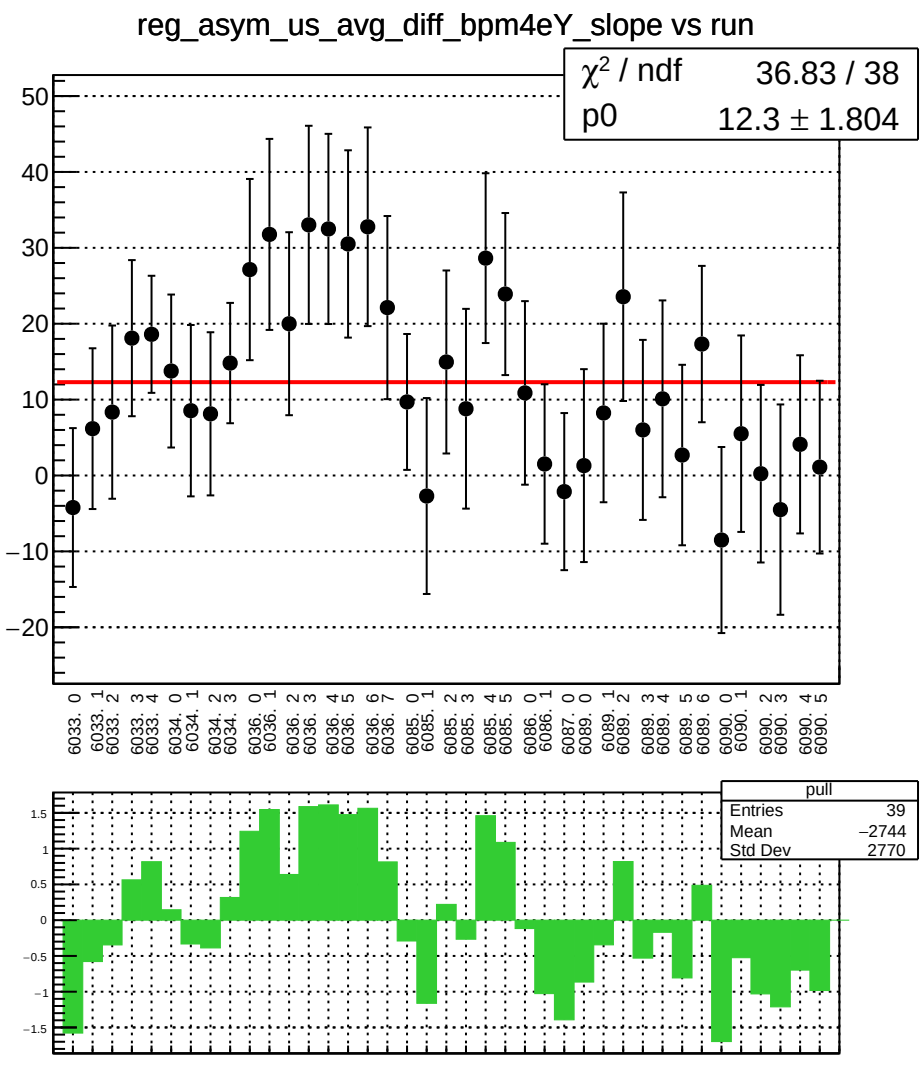

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.27 / 38
p0 −89.54 ± 2.72
pull
Entries 39
Mean 23.39
Std Dev 16.26

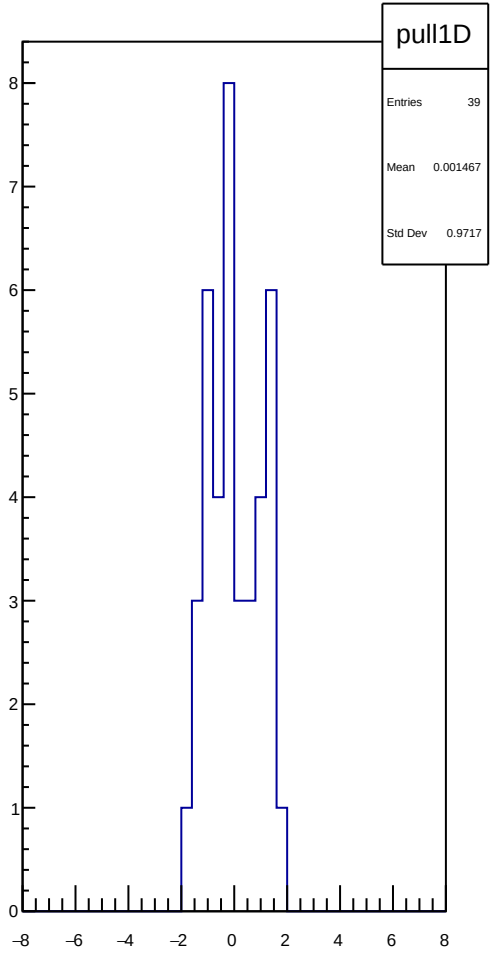

pull1D
Entries 39
Mean −0.0881
Std Dev 1.086

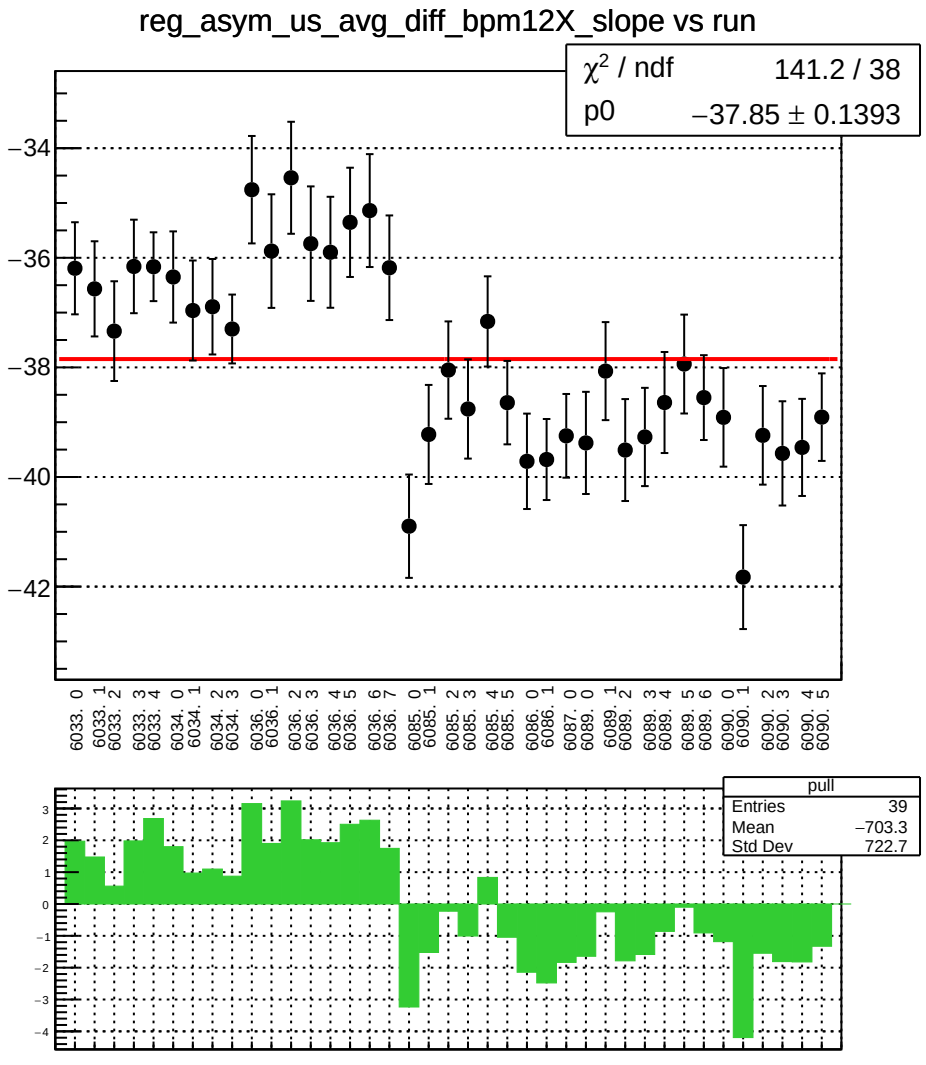

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.46 / 38
p0 4.997 ± 1.686
pull
Entries 39
Mean 171.4
Std Dev 146.6

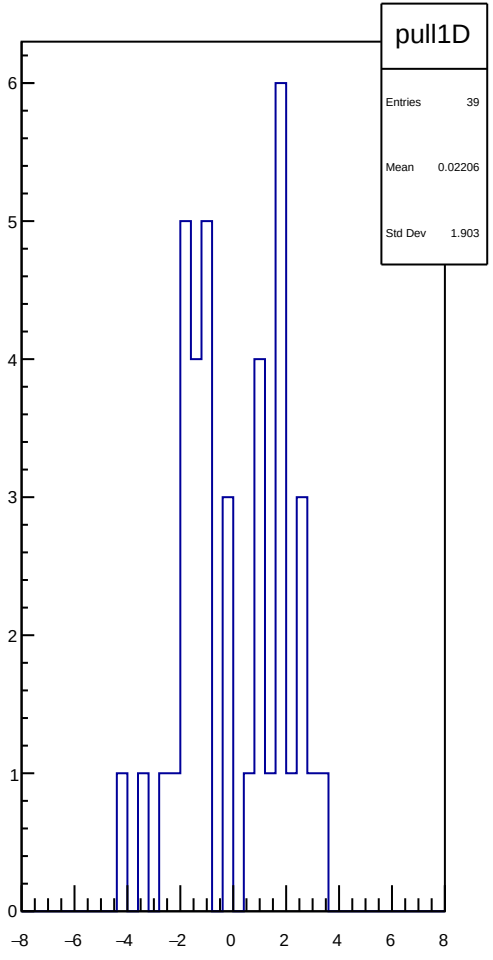

pull1D
Entries 39
Mean 0.02814
Std Dev 0.8978

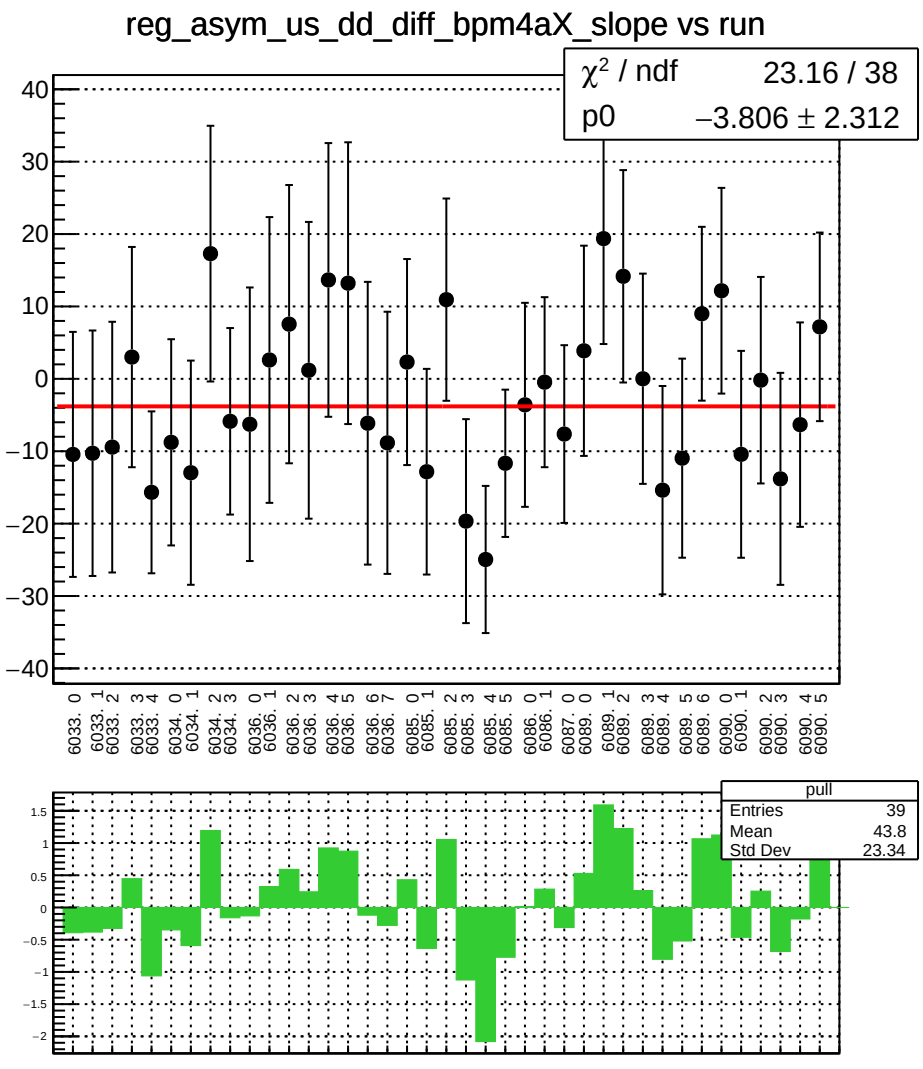

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.1 / 38
p0 108.2 ± 3.045
pull
Entries 39
Mean 57.21
Std Dev 34.92
pull1D
Entries 39
Mean 0.08644
Std Dev 1.084

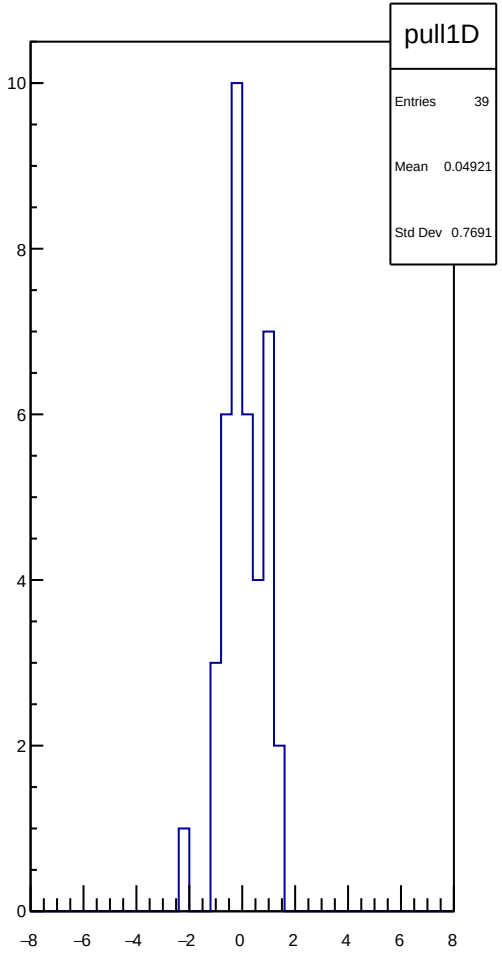

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.83 / 38
p0 12.3 ± 1.804
pull
Entries 39
Mean −2744
Std Dev 2770

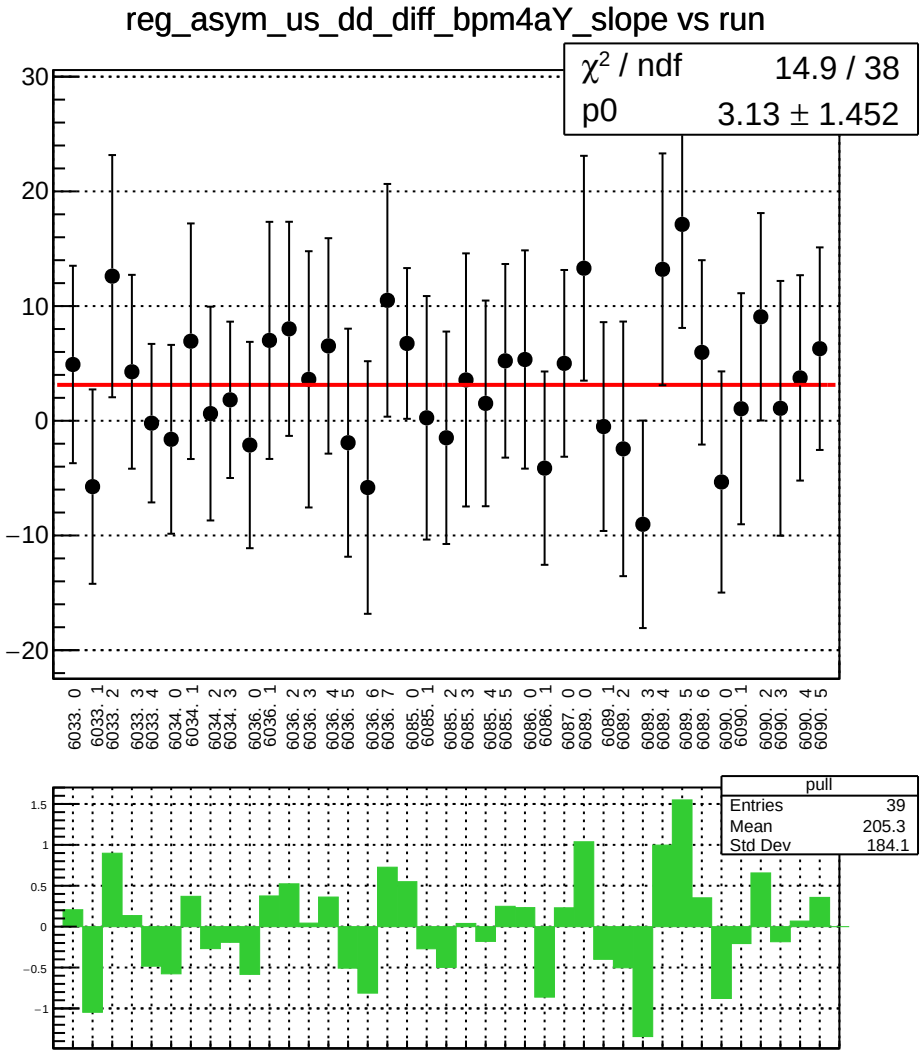

pull1D
Entries 39
Mean 0.001467
Std Dev 0.9717

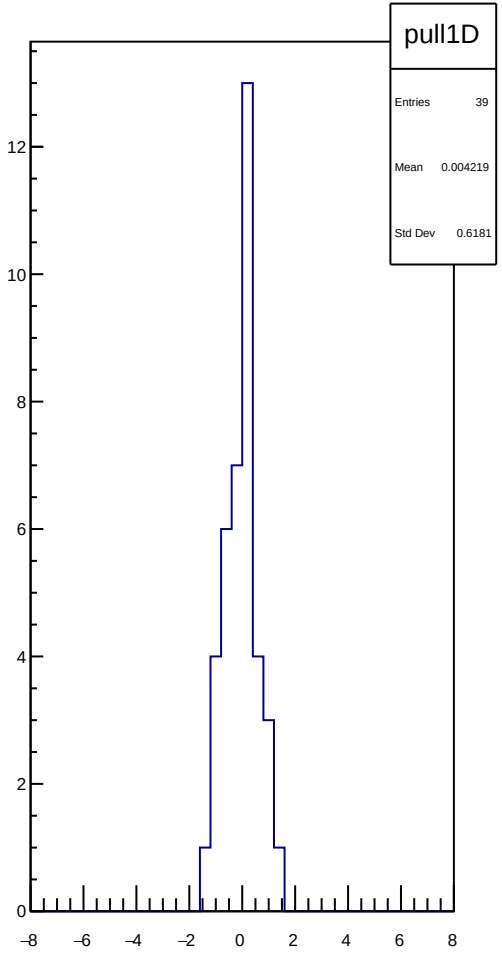

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 141.2 / 38
p0 −37.85 ± 0.1393
−34
−36
−38
−40
−42
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −703.3
Std Dev 722.7
3
2
1
0
−1
−2
−3
−4

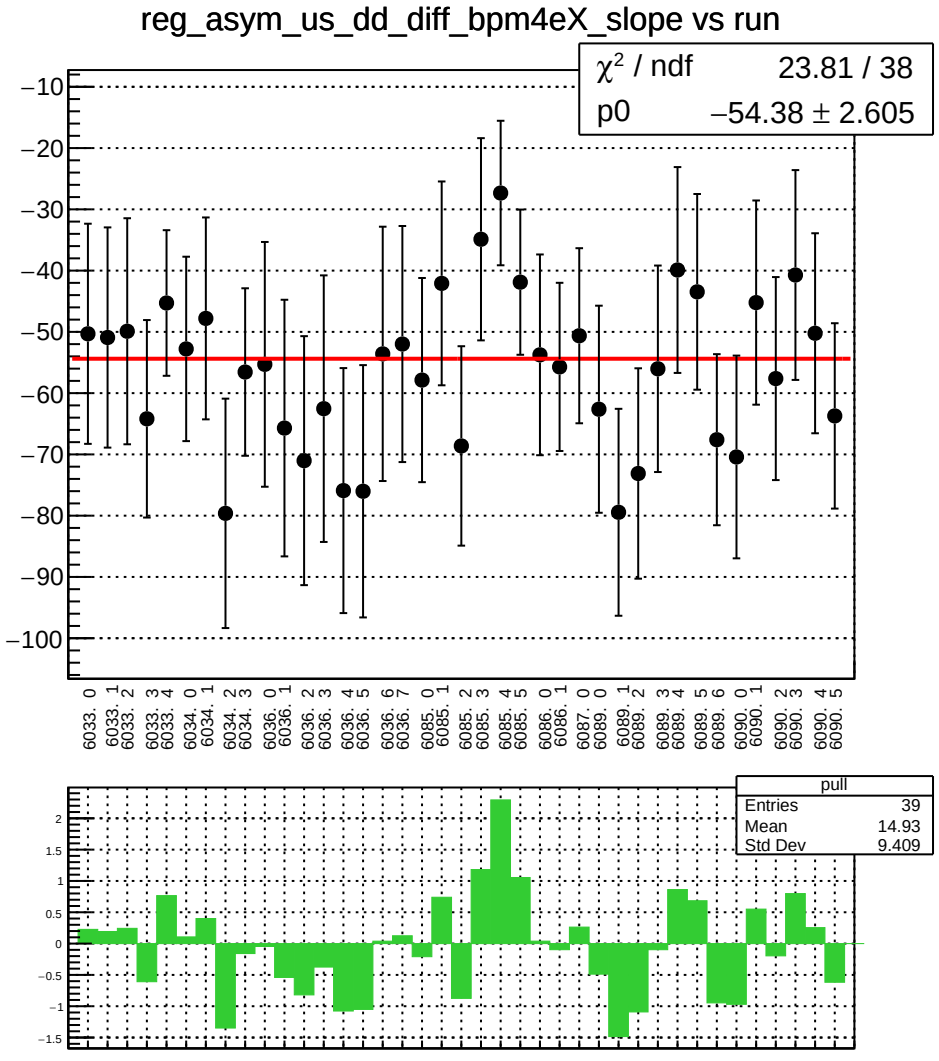

pull1D
Entries 39
Mean 0.02206
Std Dev 1.903
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

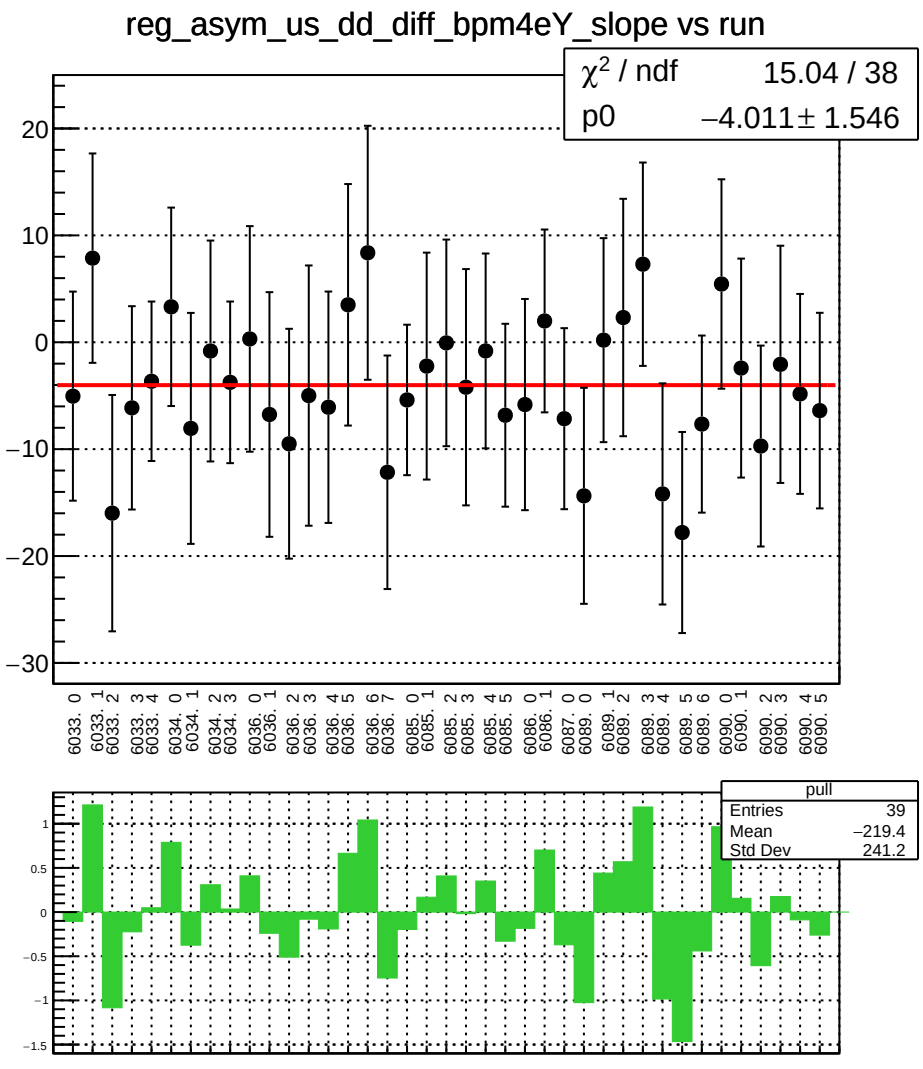

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.16 / 38
p0 −3.806 ± 2.312
pull
Entries 39
Mean 43.8
Std Dev 23.34

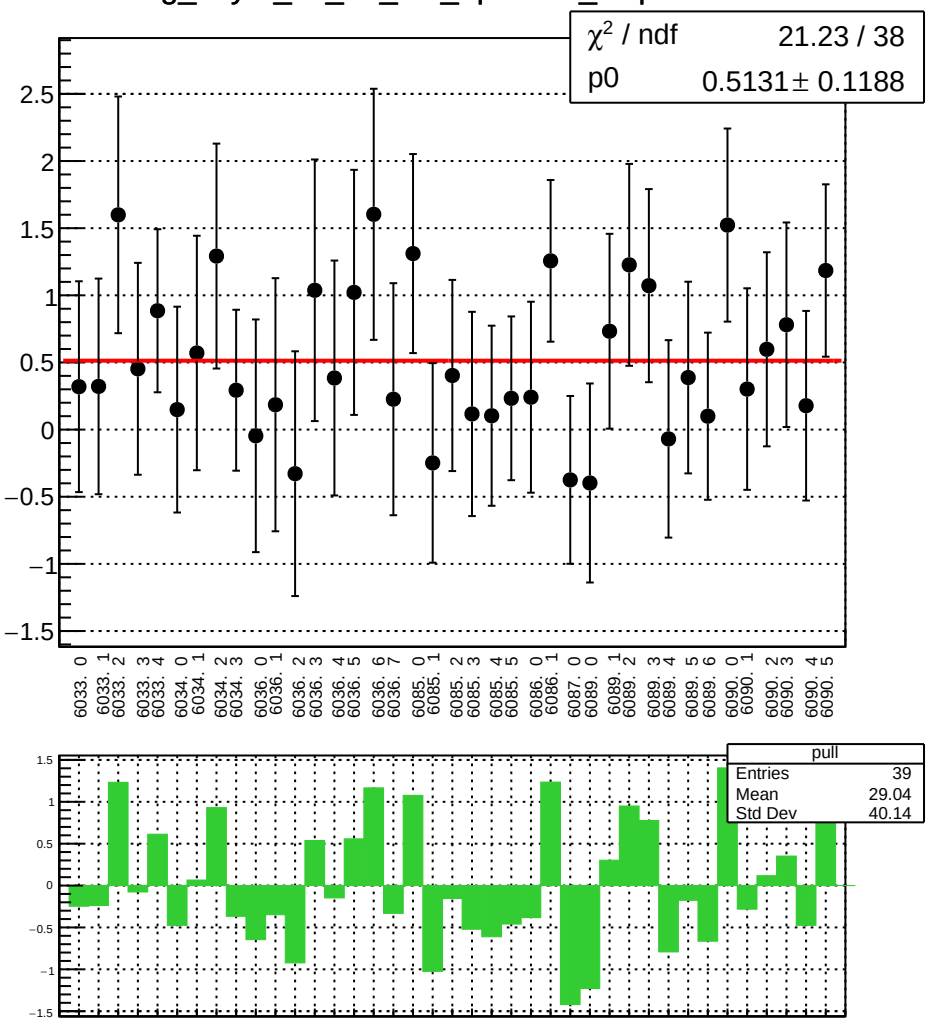

pull1D
Entries 39
Mean 0.04921
Std Dev 0.7691

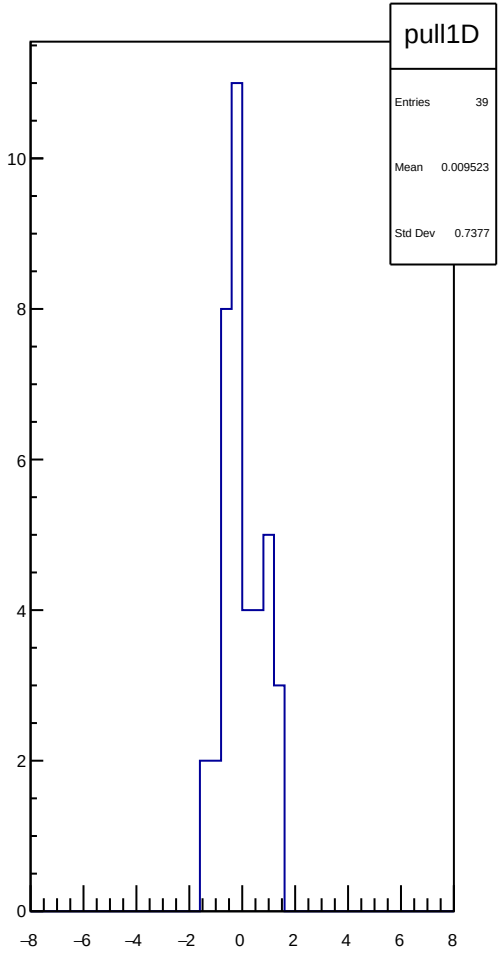

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.9 / 38
p0 3.13 ± 1.452
pull
Entries 39
Mean 205.3
Std Dev 184.1

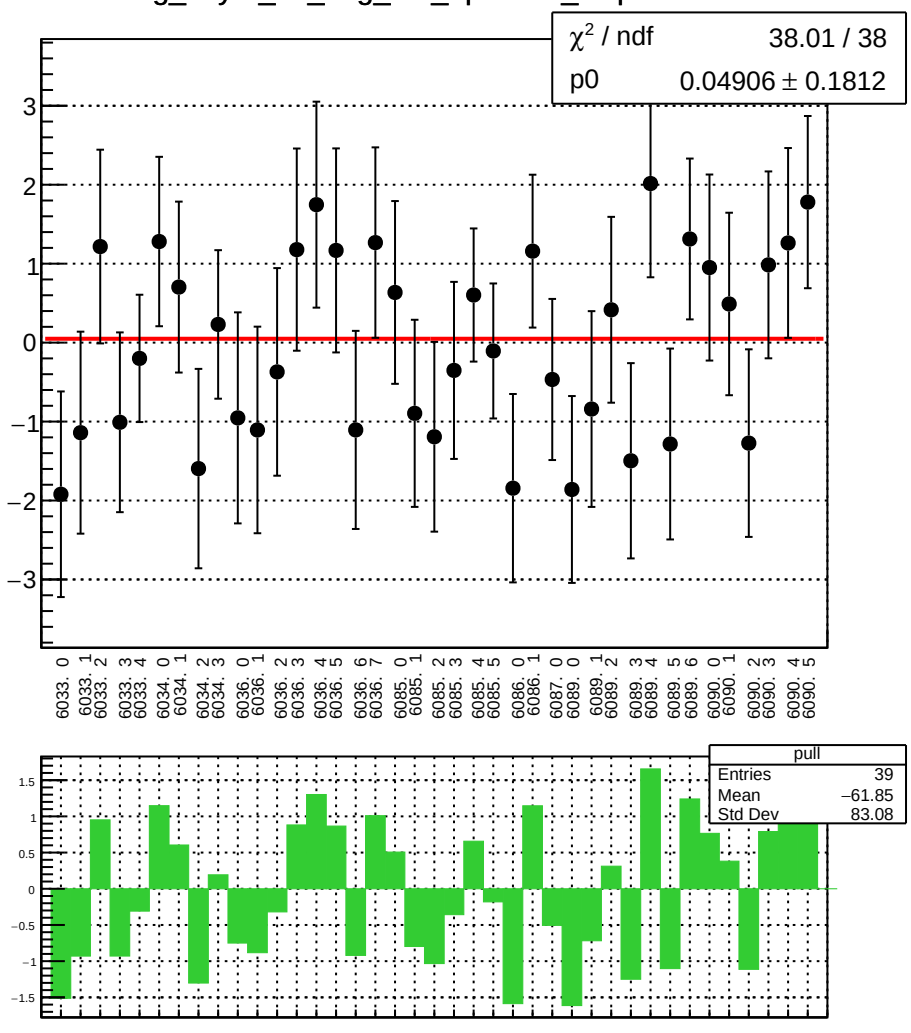

pull1D
Entries 39
Mean 0.004219
Std Dev 0.6181

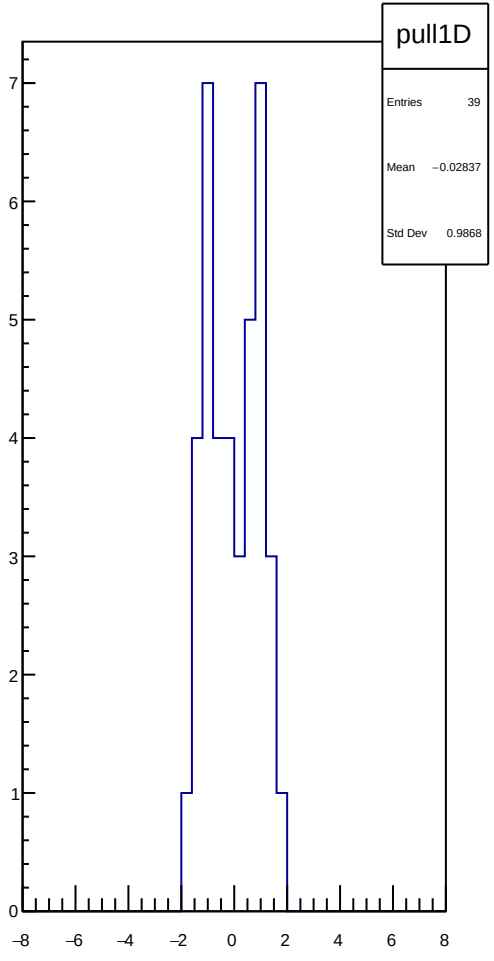

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.81 / 38
p0 −54.38 ± 2.605
pull
Entries 39
Mean 14.93
Std Dev 9.409
pull1D
Entries 39
Mean −0.05833
Std Dev 0.7792

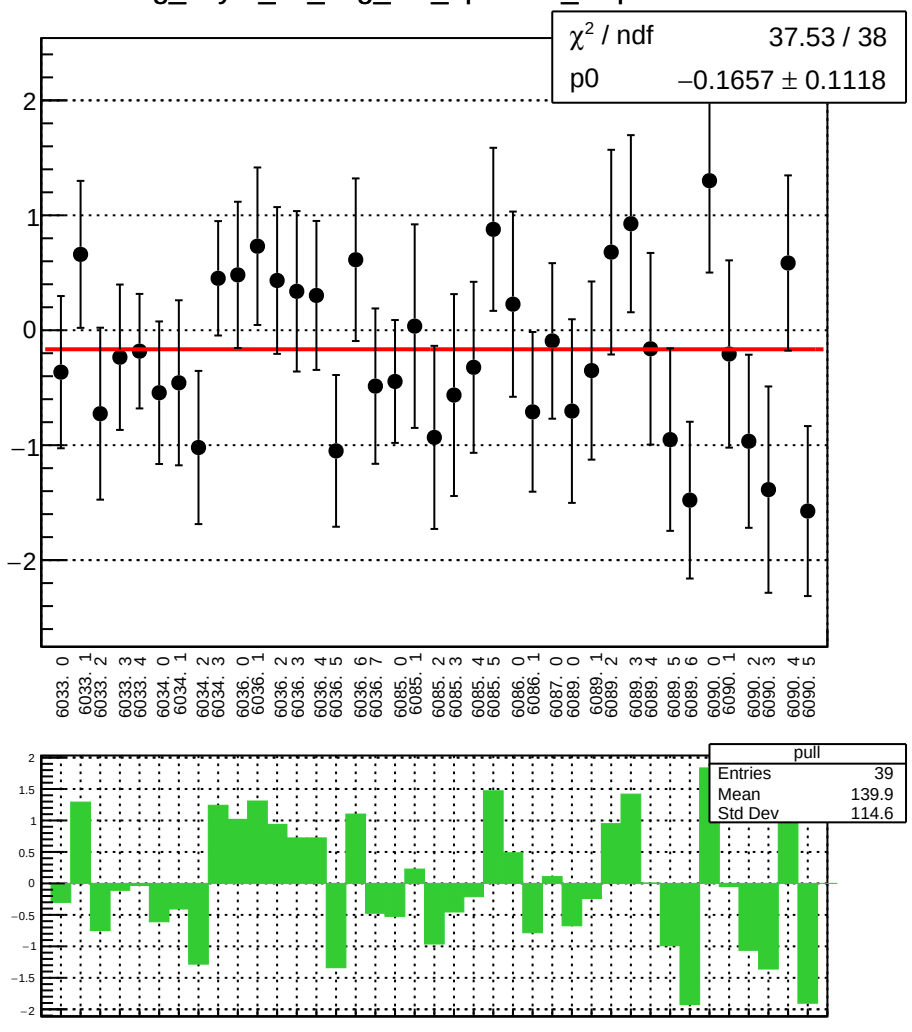

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.04 / 38
p0 −4.011 ± 1.546
20
10
0
−10
−20
−30
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −219.4
Std Dev 241.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.002997
Std Dev 0.6209
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

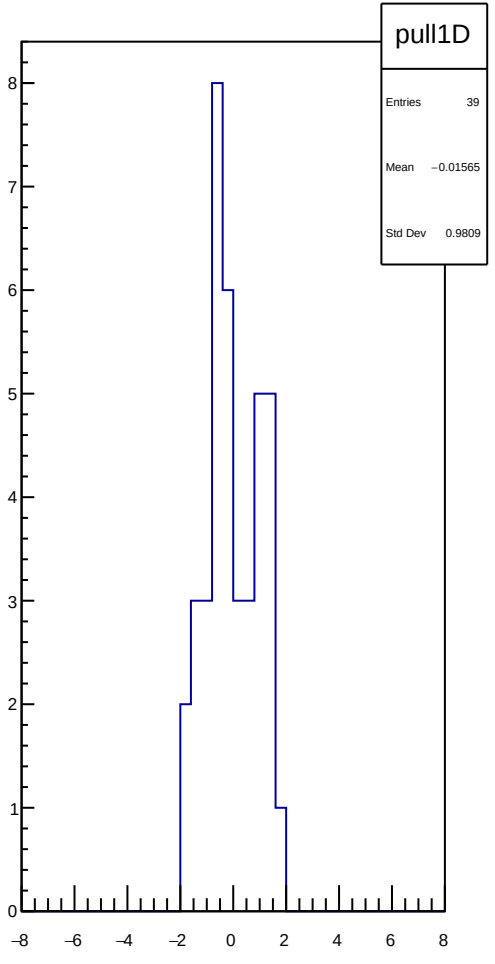

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 21.23 / 38
p0 0.5131 ± 0.1188
pull
Entries 39
Mean 29.04
Std Dev 40.14

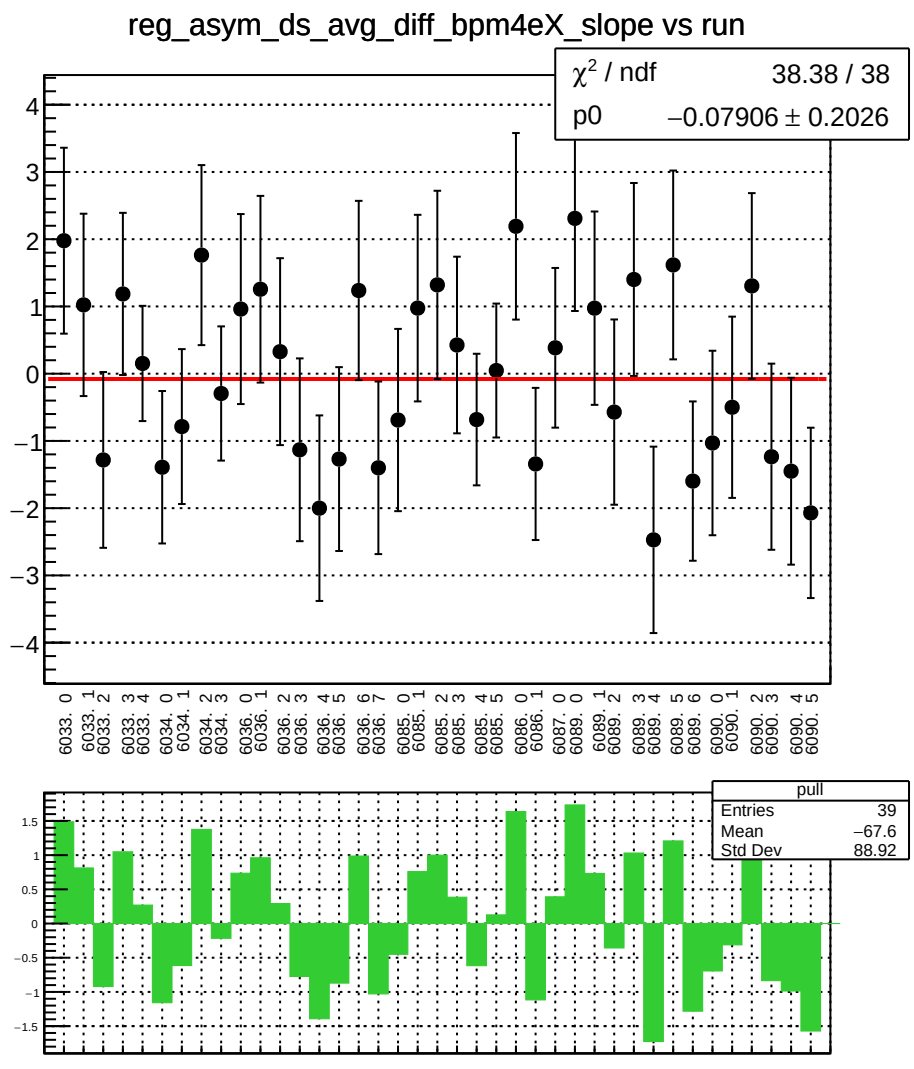

pull1D
Entries 39
Mean 0.009523
Std Dev 0.7377

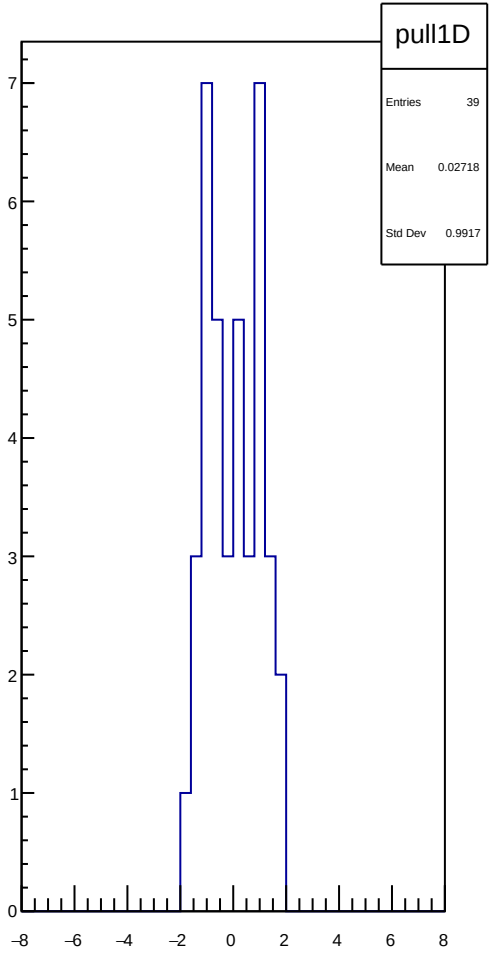

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 38.01 / 38
p0 0.04906 ± 0.1812
pull
Entries 39
Mean −61.85
Std Dev 83.08

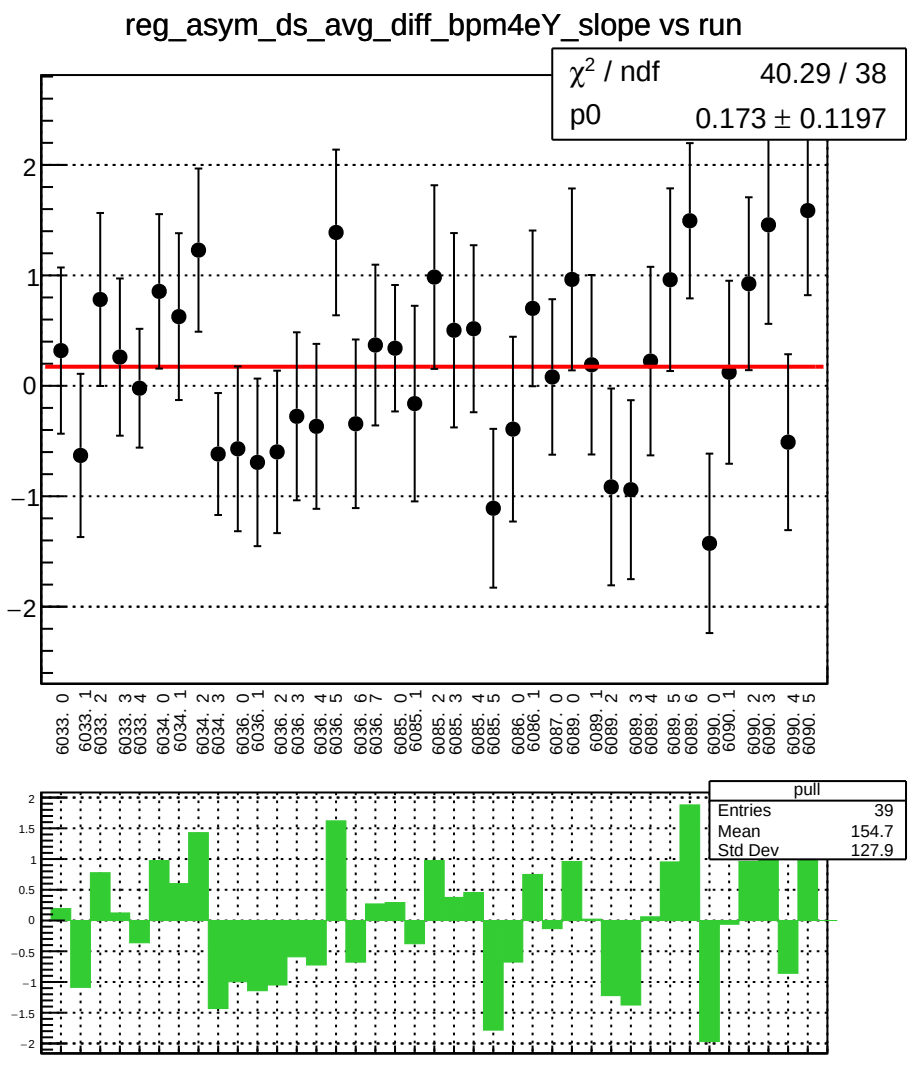

pull1D
Entries 39
Mean −0.02837
Std Dev 0.9868

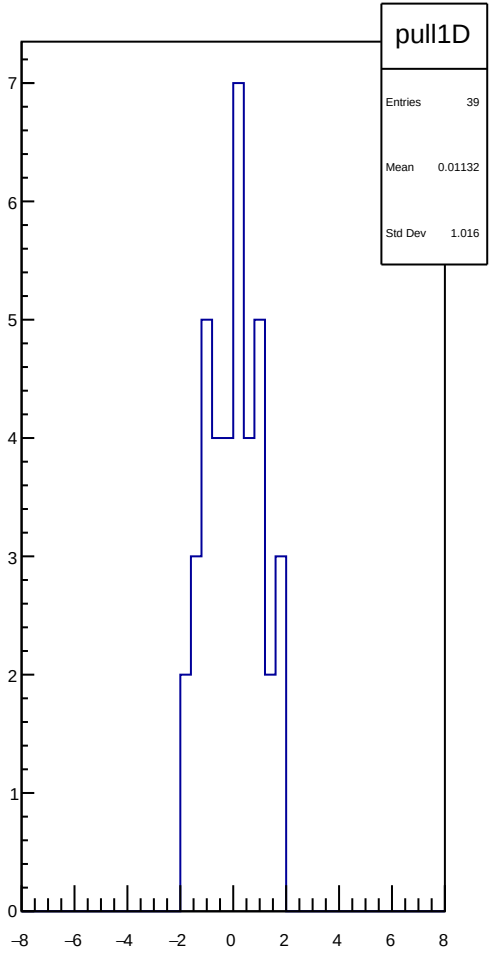

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.53 / 38
p0 −0.1657 ± 0.1118
pull
Entries 39
Mean 139.9
Std Dev 114.6

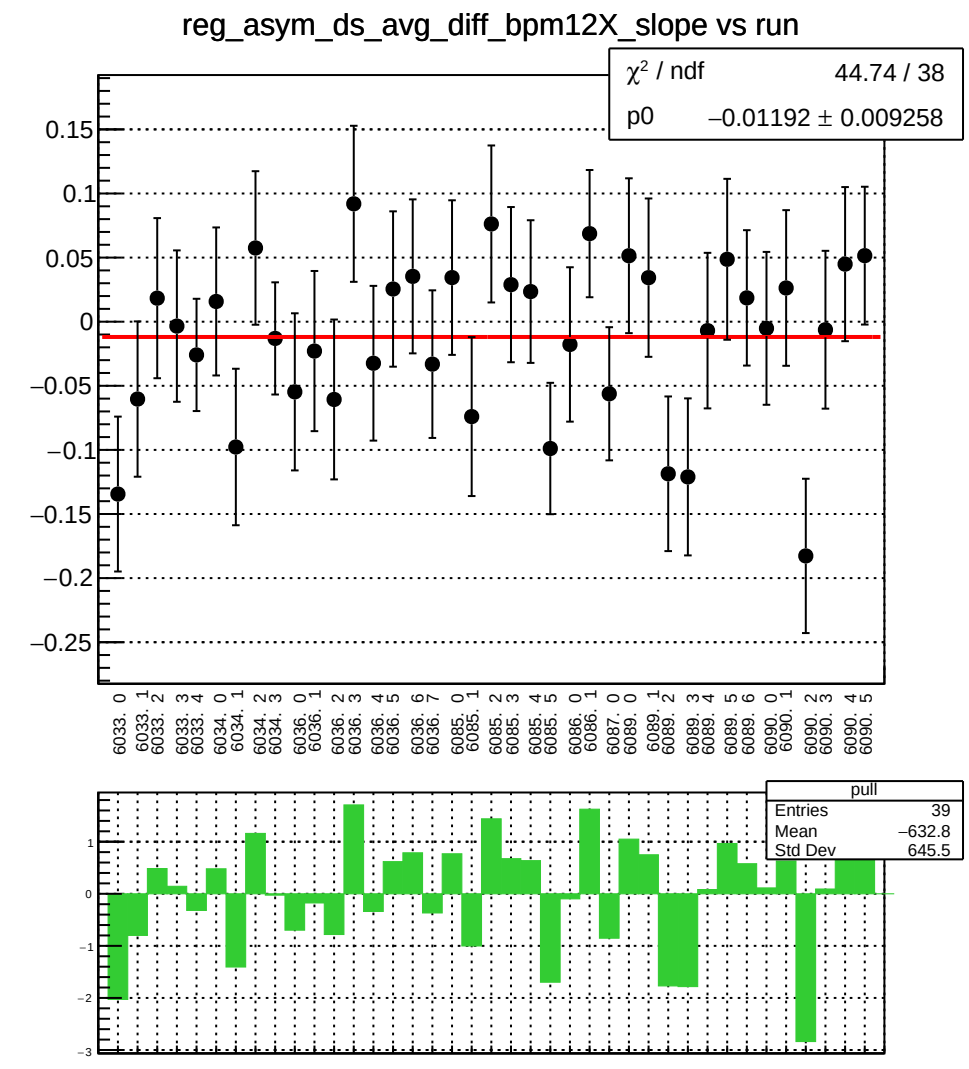

pull1D
Entries 39
Mean −0.01565
Std Dev 0.9809

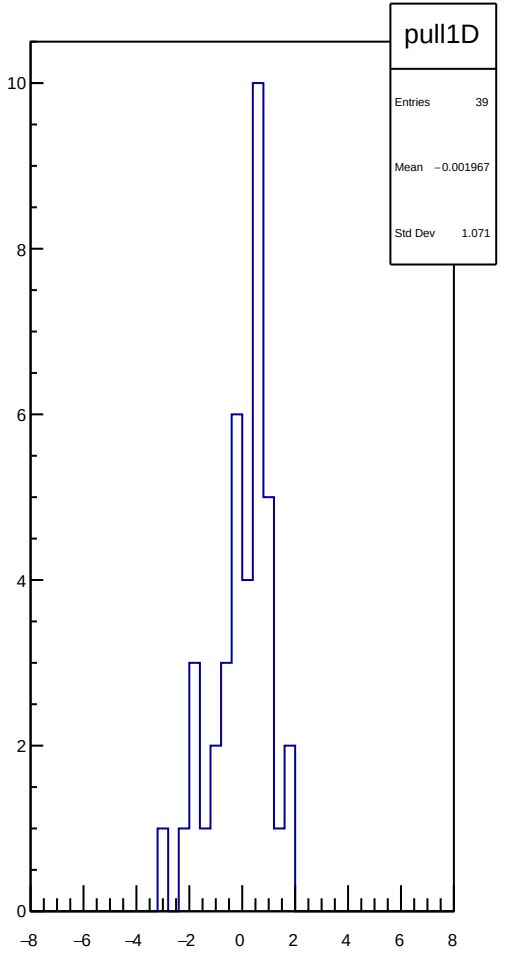

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.38 / 38
p0 −0.07906 ± 0.2026
pull
Entries 39
Mean −67.6
Std Dev 88.92

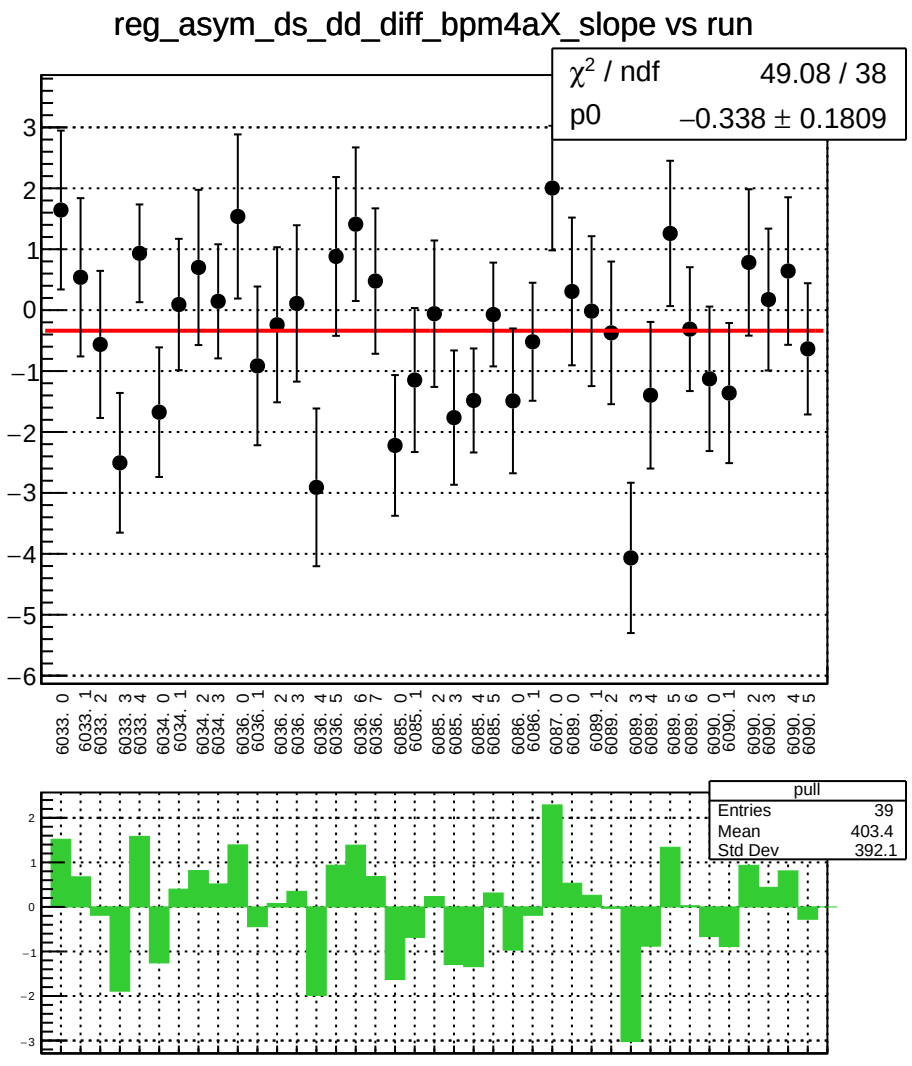

pull1D
Entries 39
Mean 0.02718
Std Dev 0.9917

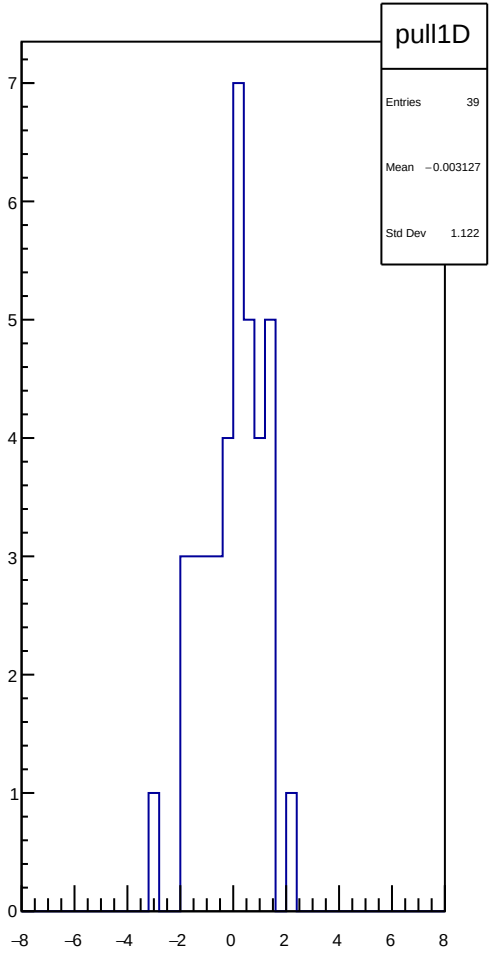

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.29 / 38
p0 0.173 ± 0.1197
pull
Entries 39
Mean 154.7
Std Dev 127.9

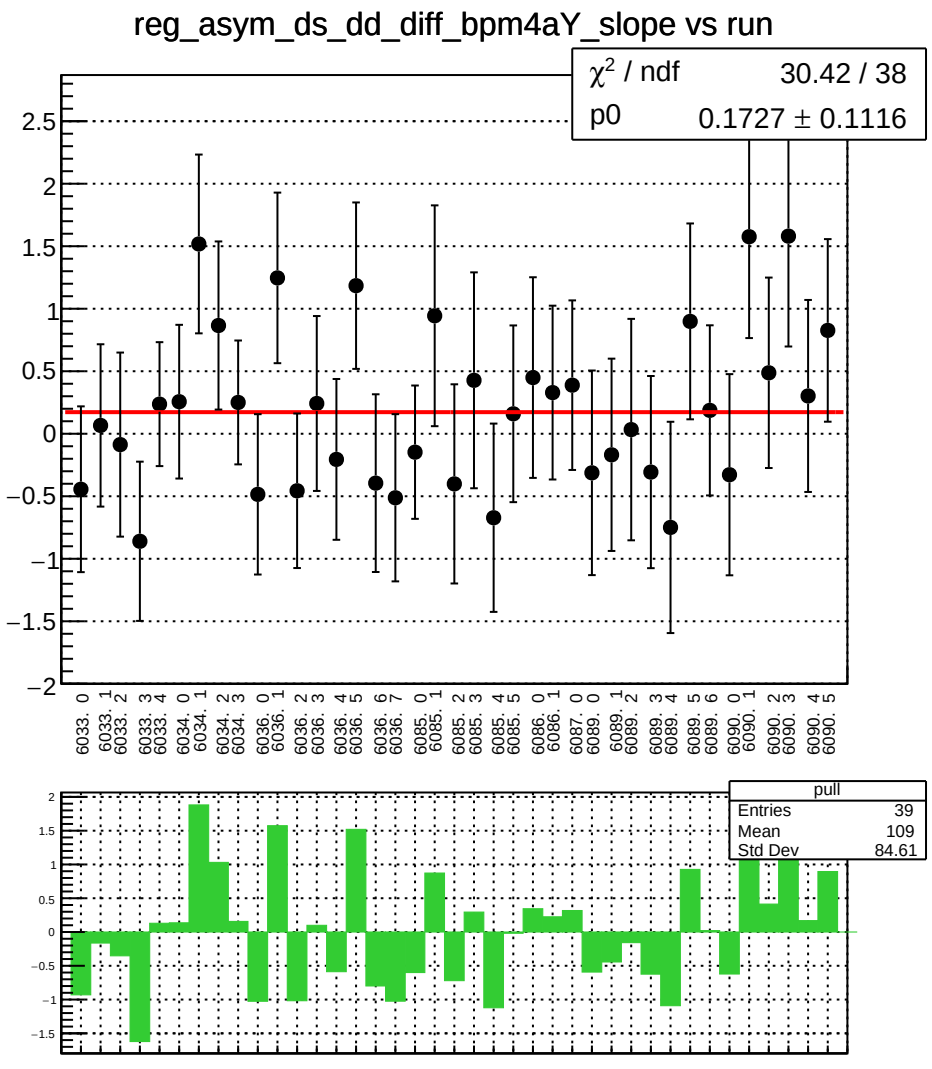

pull1D
Entries 39
Mean 0.01132
Std Dev 1.016

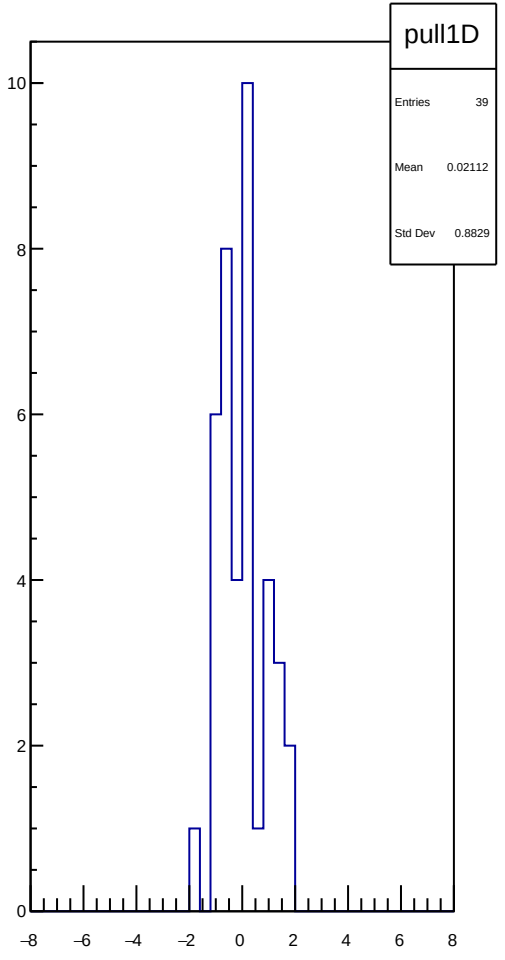

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 44.74 / 38
p0 −0.01192 ± 0.009258
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −632.8
Std Dev 645.5
1
0
−1
−2
−3

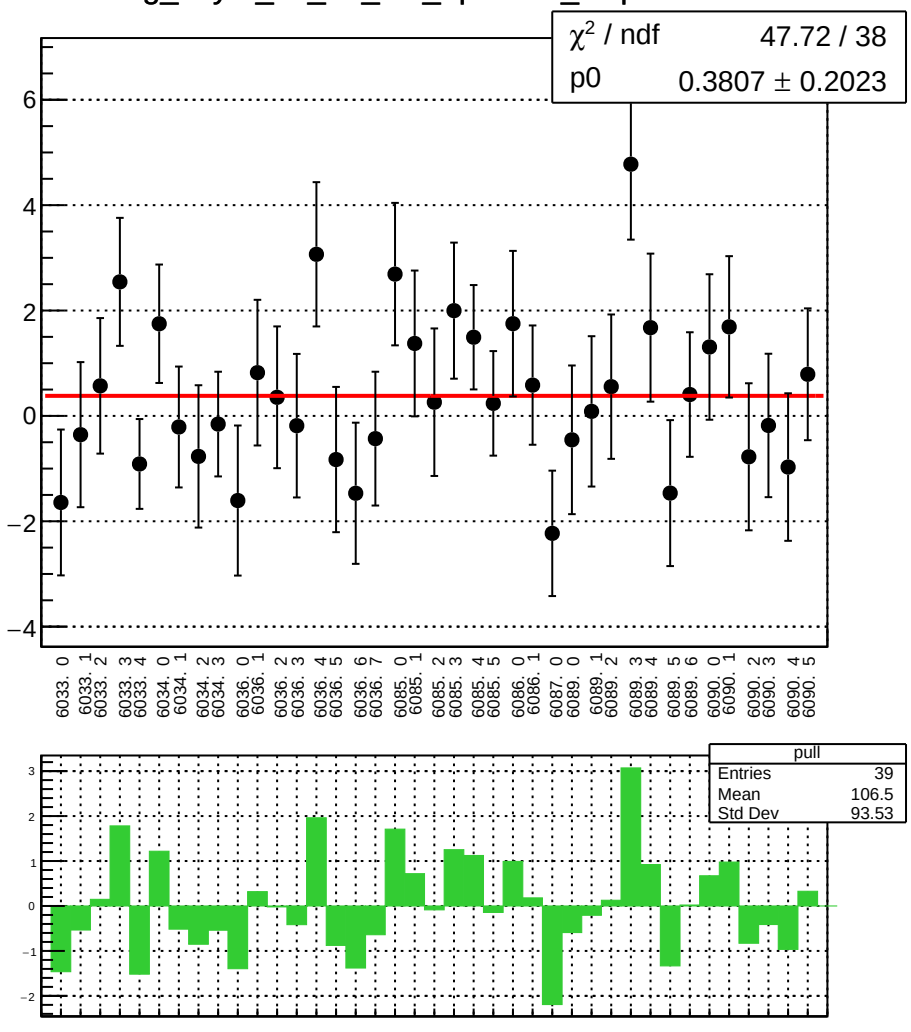

pull1D
Entries 39
Mean −0.001967
Std Dev 1.071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

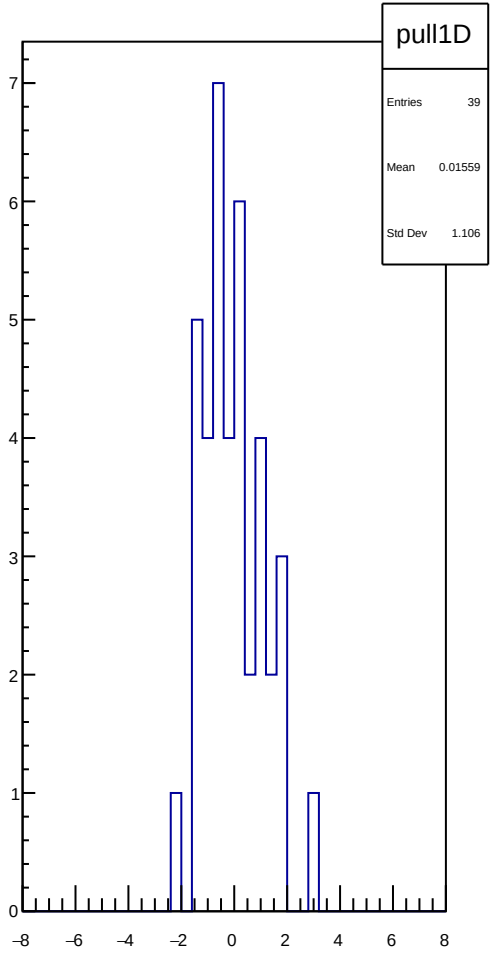

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 49.08 / 38
p0 −0.338 ± 0.1809
pull
Entries 39
Mean 403.4
Std Dev 392.1

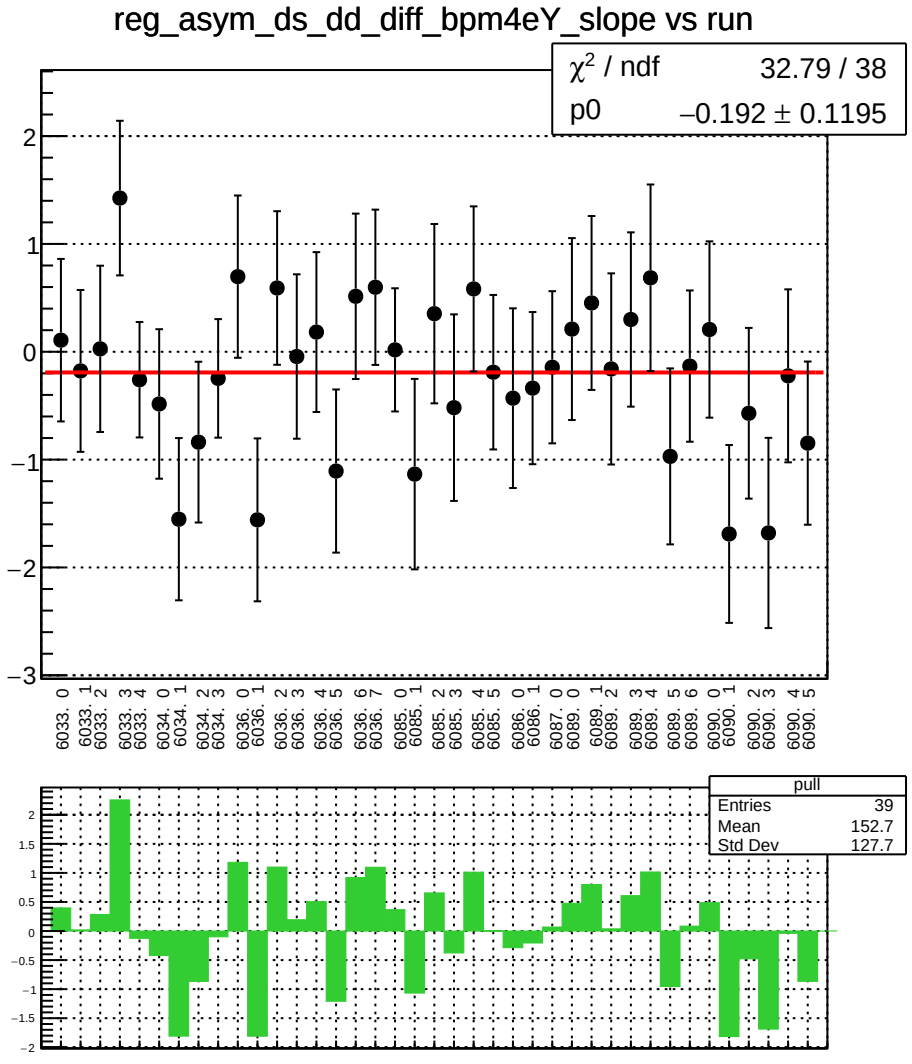

pull1D
Entries 39
Mean −0.003127
Std Dev 1.122

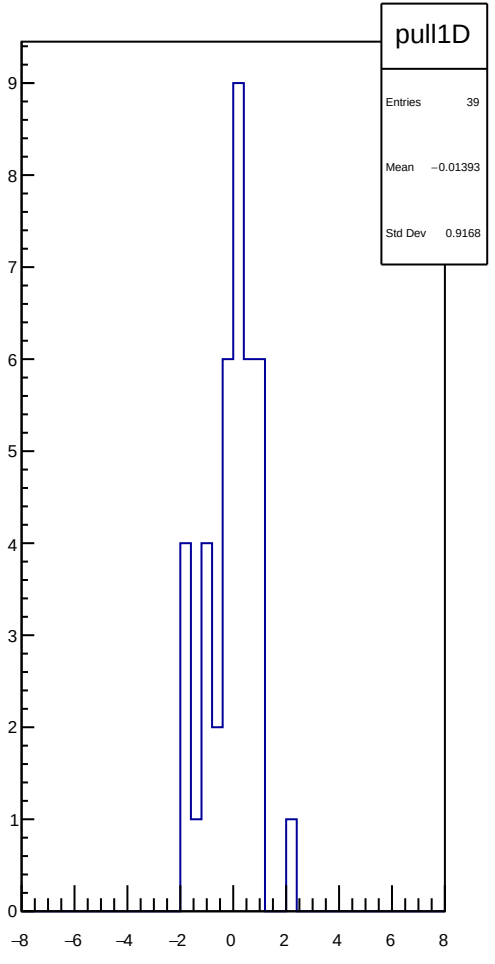

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.42 / 38
p0 0.1727 ± 0.1116
pull
Entries 39
Mean 109
Std Dev 84.61

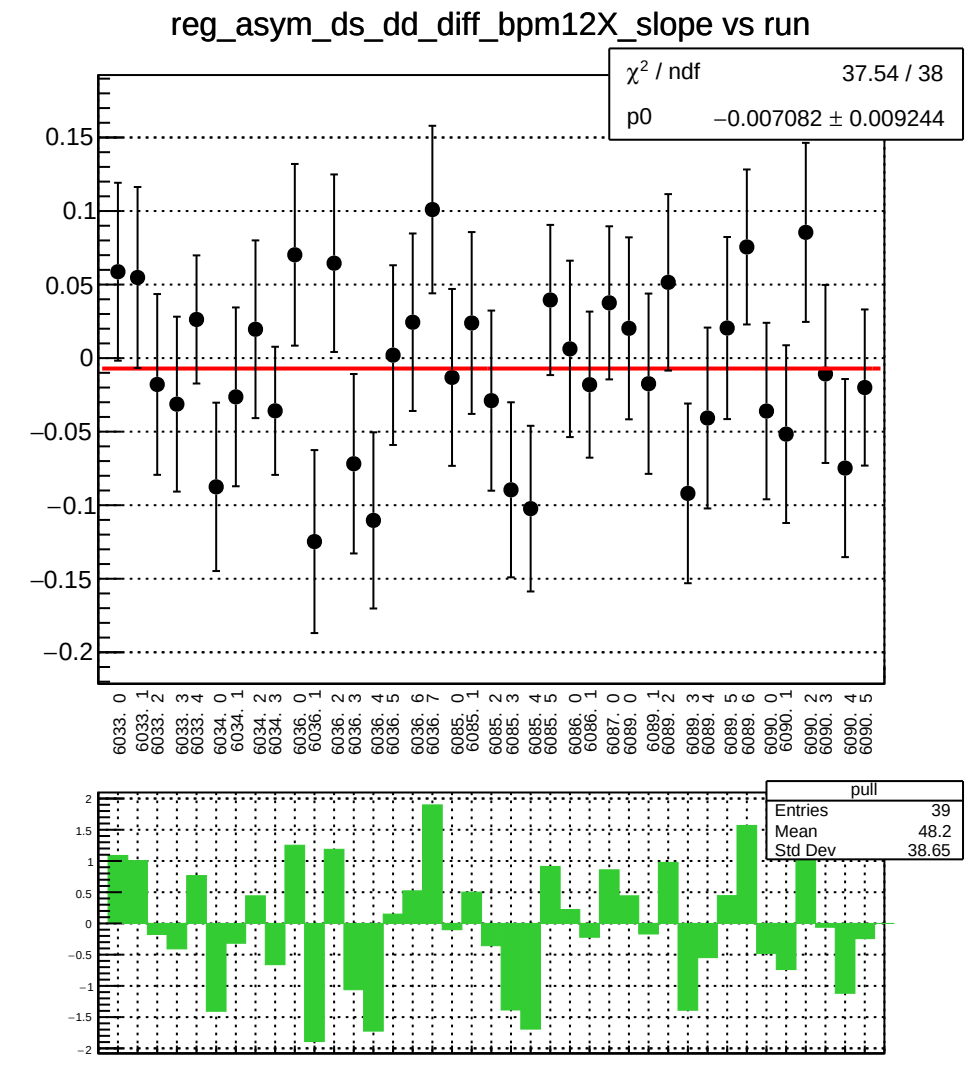

pull1D
Entries 39
Mean 0.02112
Std Dev 0.8829

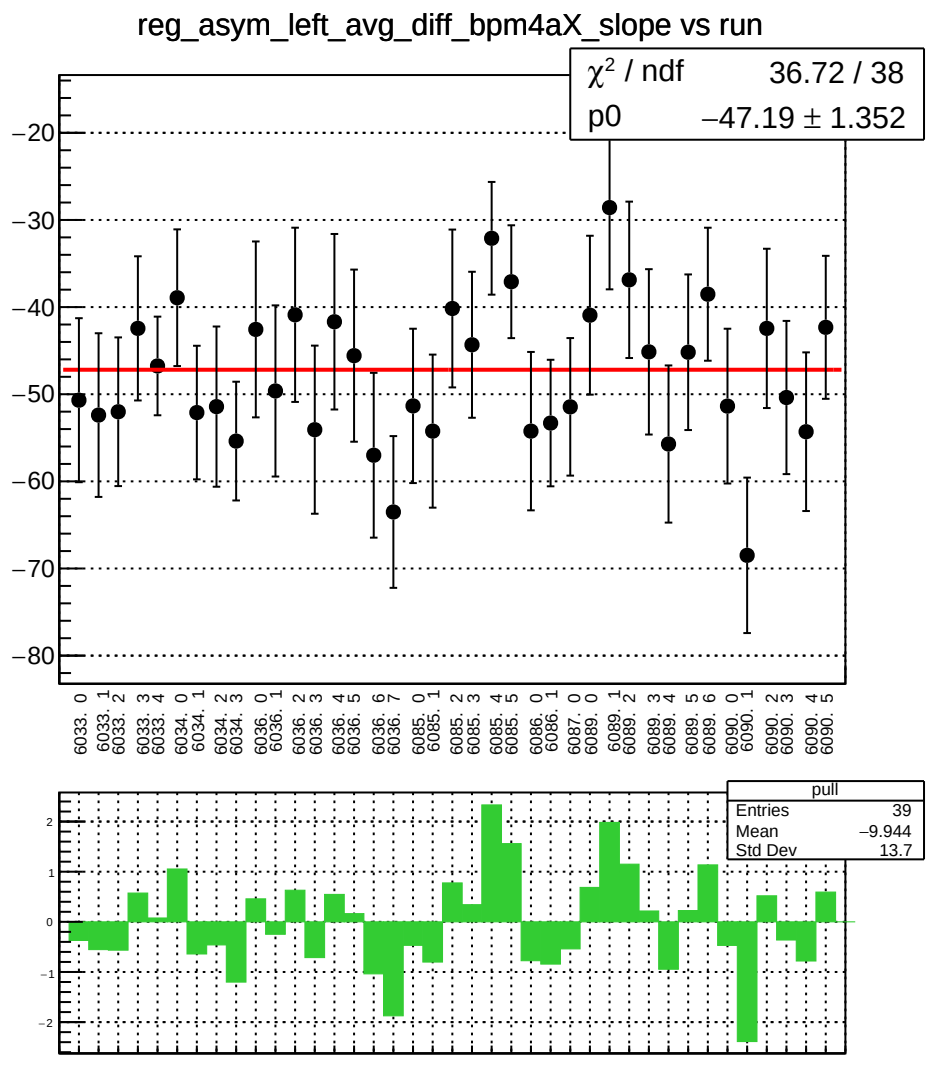

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.72 / 38
p0 0.3807 ± 0.2023
pull
Entries 39
Mean 106.5
Std Dev 93.53

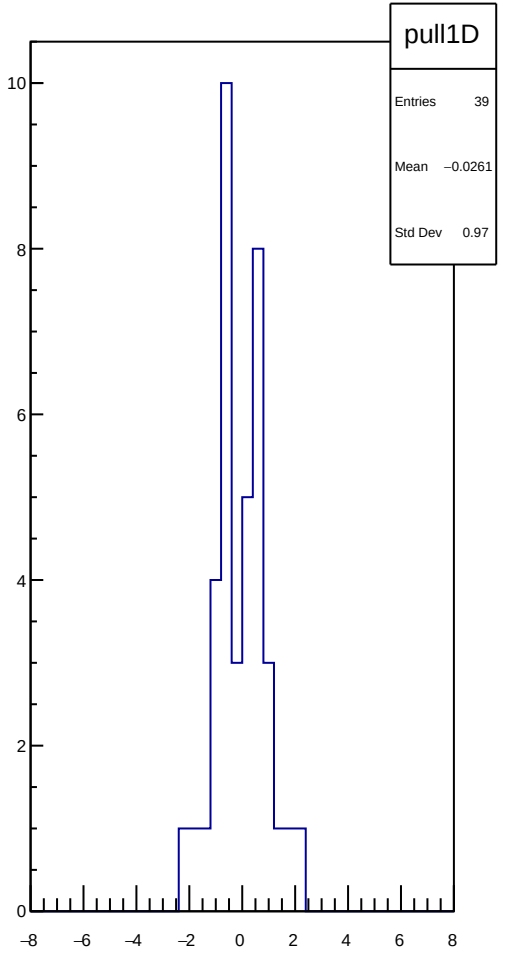

pull1D
Entries 39
Mean 0.01559
Std Dev 1.106

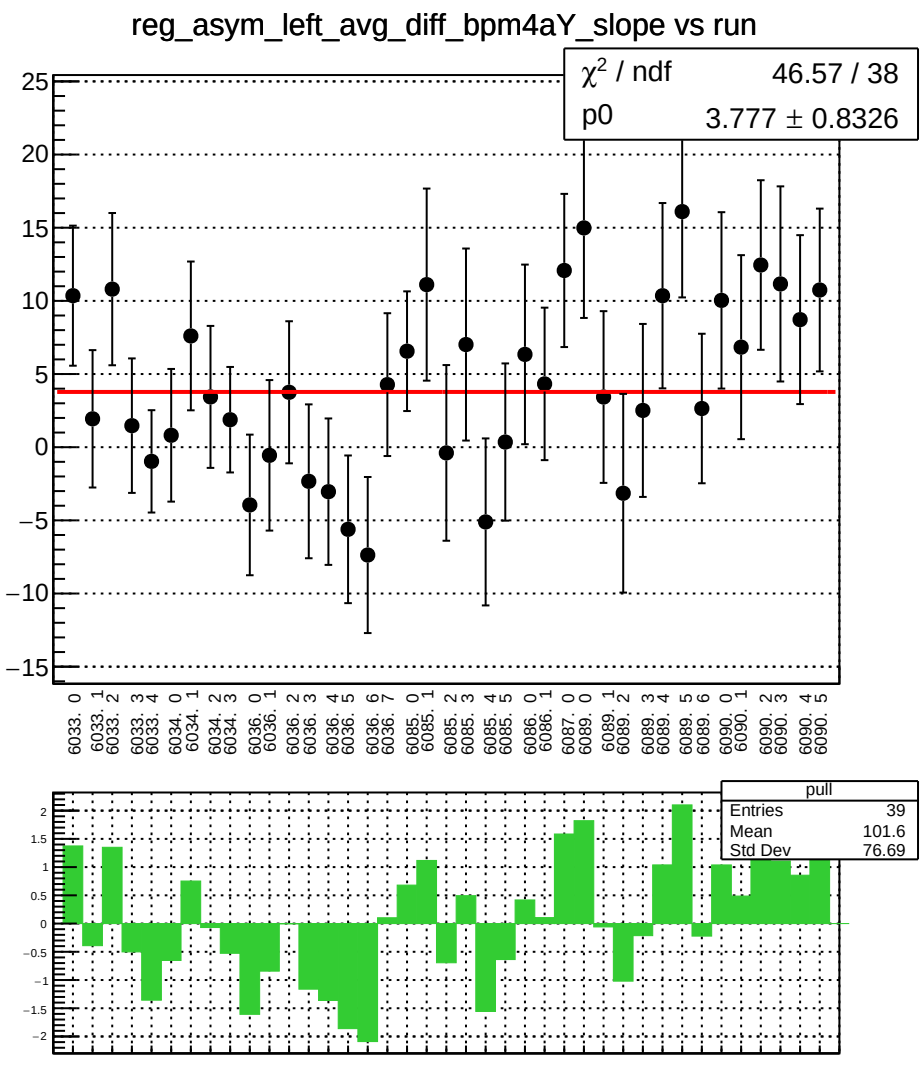

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.79 / 38
p0 −0.192 ± 0.1195
pull
Entries 39
Mean 152.7
Std Dev 127.7

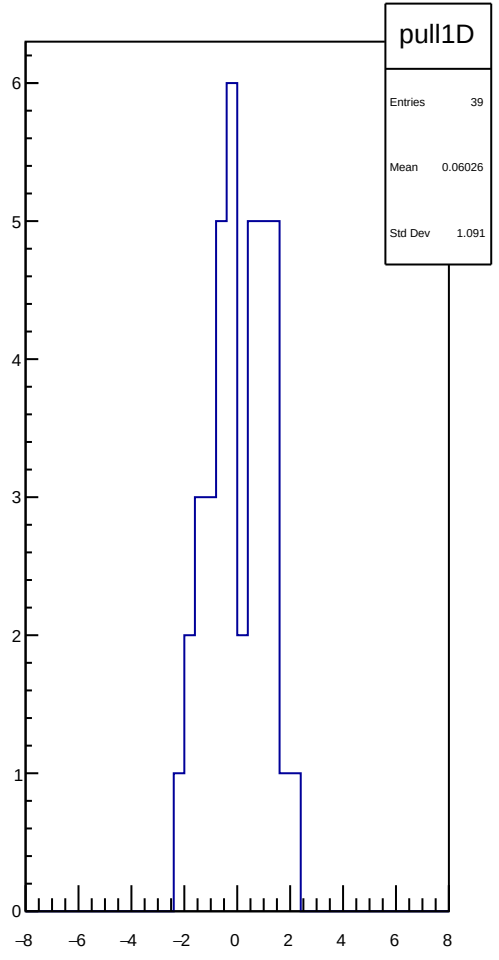

pull1D
Entries 39
Mean −0.01393
Std Dev 0.9168

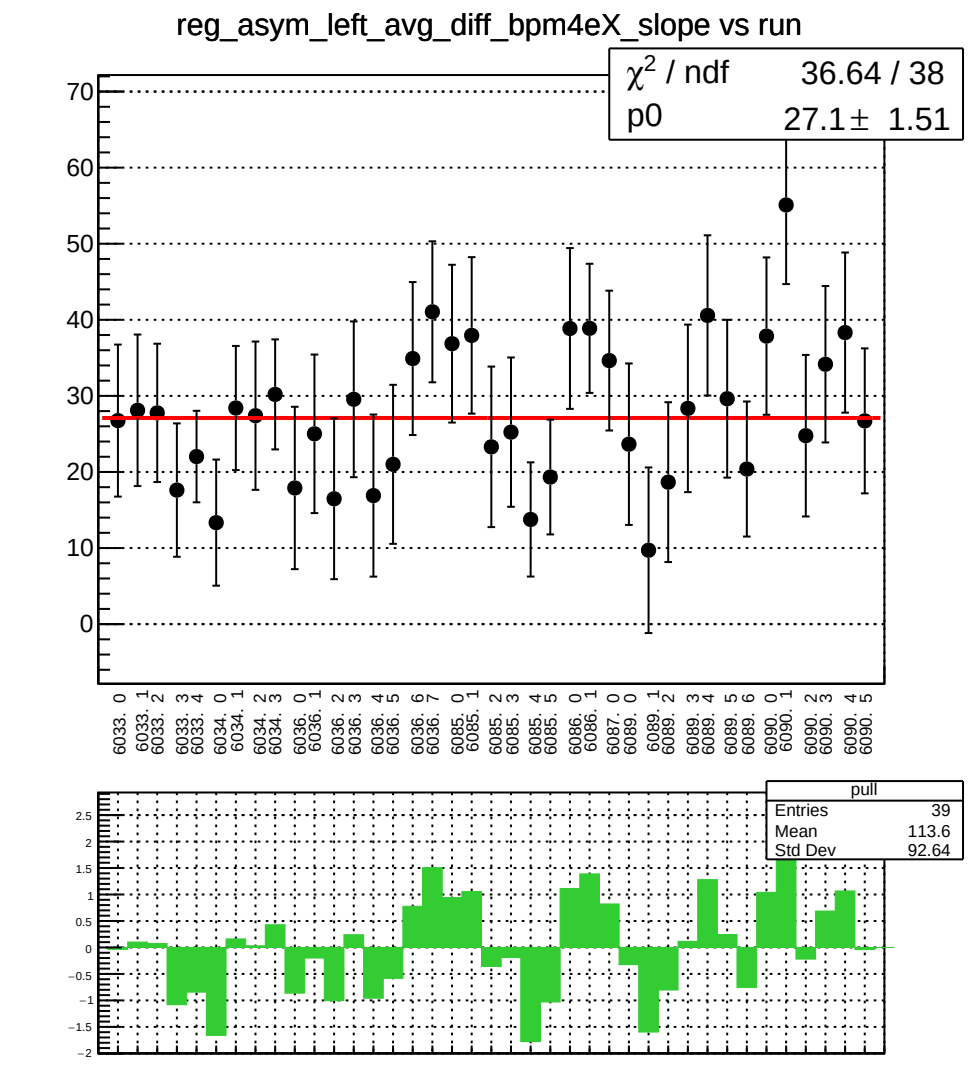

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 37.54 / 38
p0 −0.007082 ± 0.009244
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 48.2
Std Dev 38.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.009885
Std Dev 0.981
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

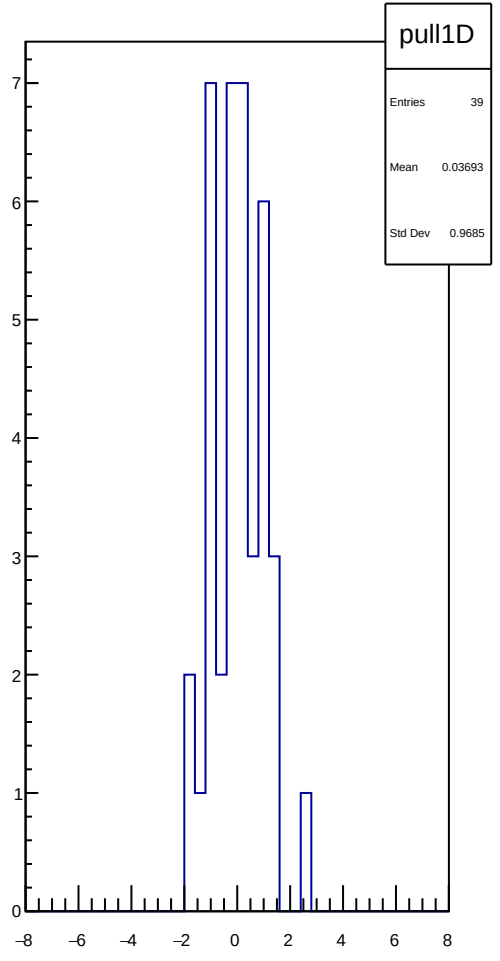

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.72 / 38
p0 −47.19 ± 1.352
pull
Entries 39
Mean −9.944
Std Dev 13.7

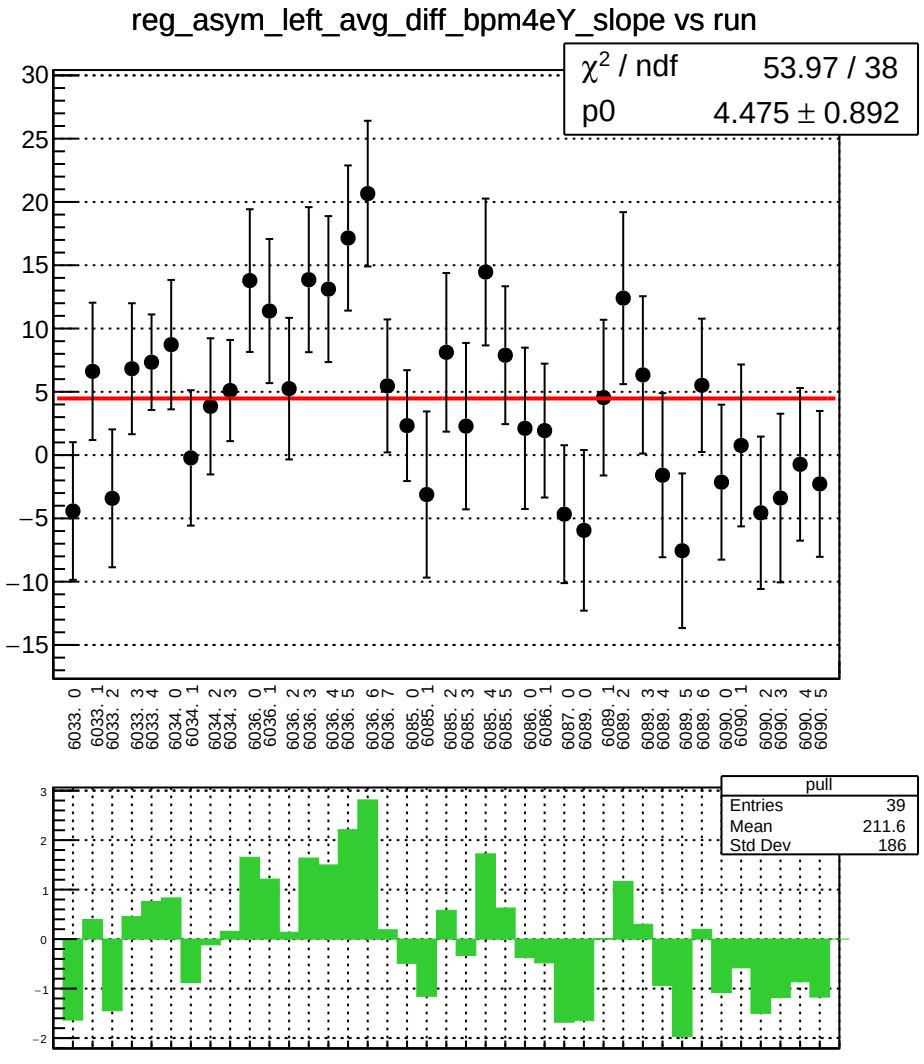

pull1D
Entries 39
Mean −0.0261
Std Dev 0.97

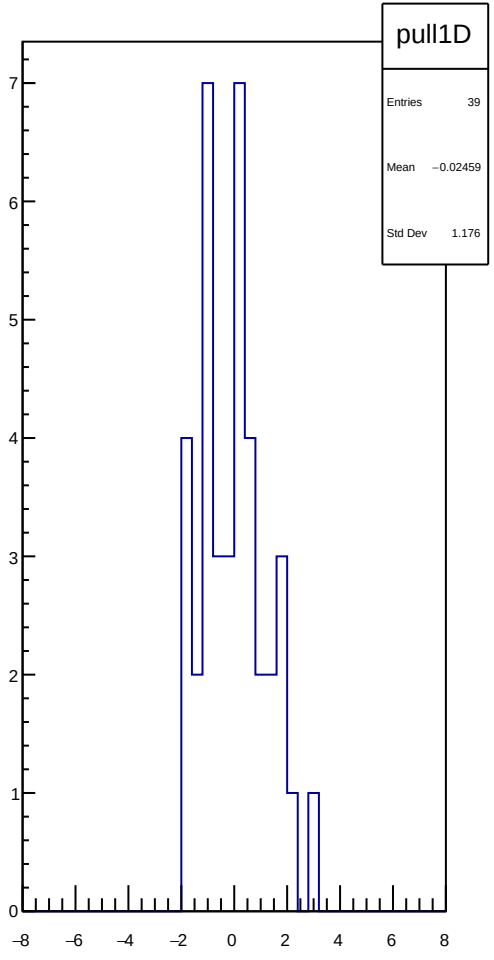

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.57 / 38
p0 3.777 ± 0.8326
pull
Entries 39
Mean 101.6
Std Dev 76.69

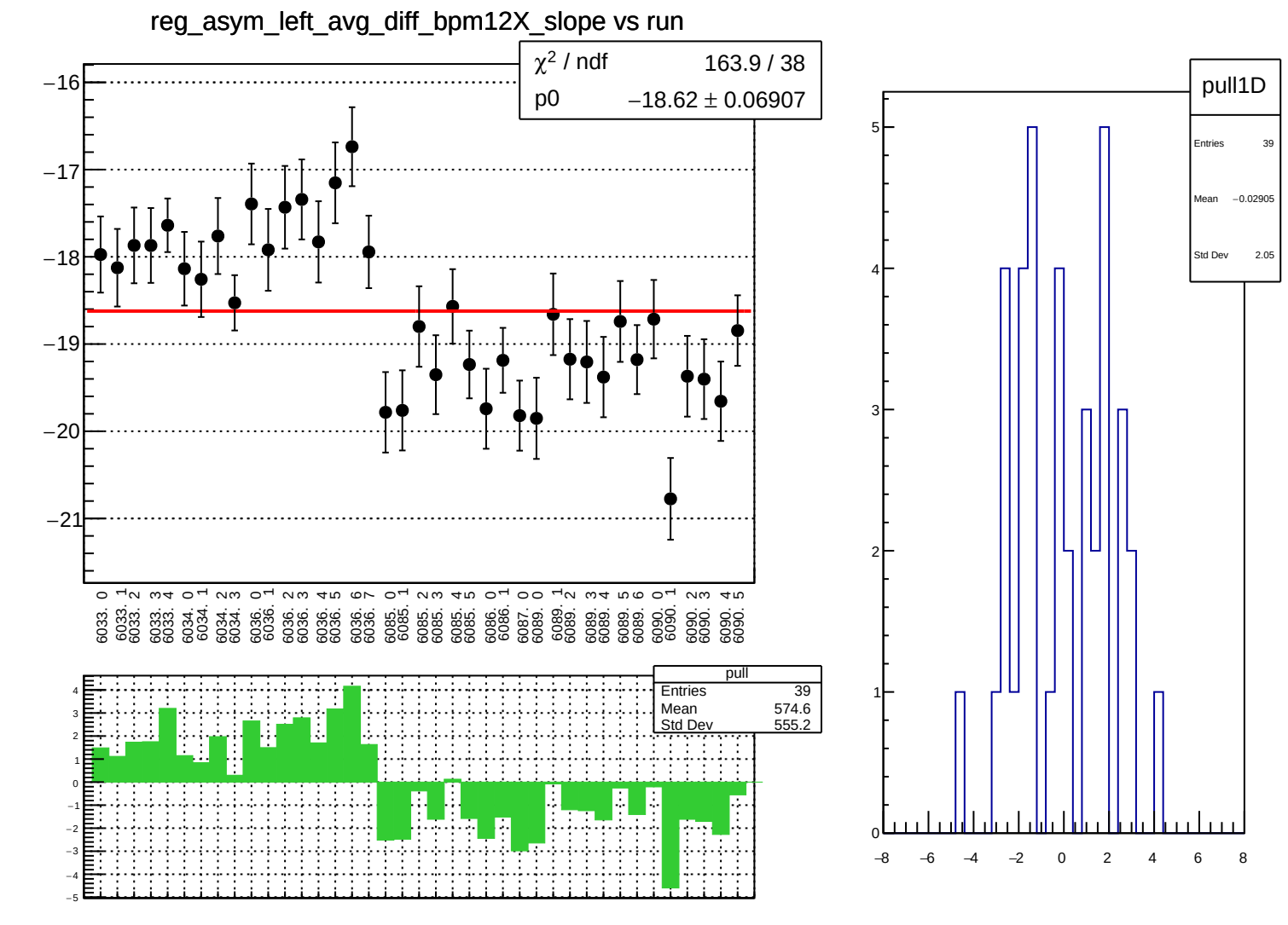

pull1D
Entries 39
Mean 0.06026
Std Dev 1.091

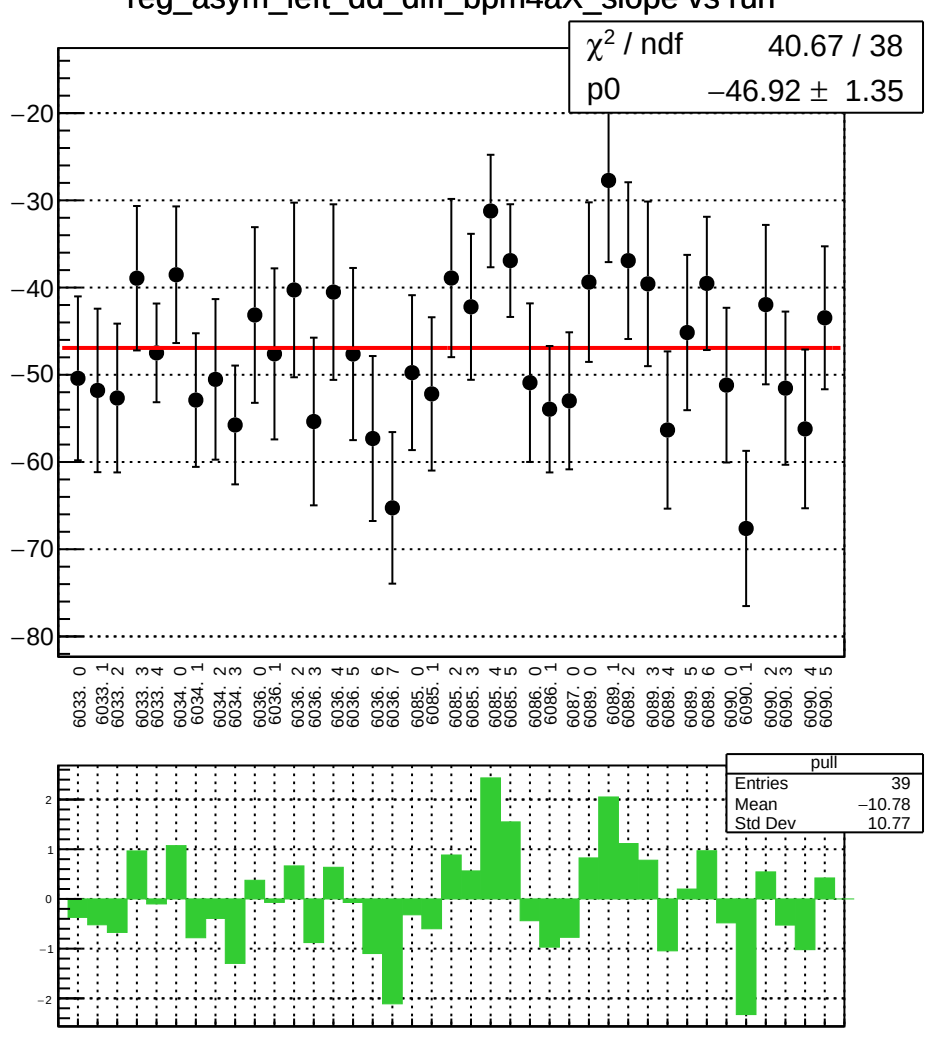

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.64 / 38
p0 27.1 ± 1.51
pull
Entries 39
Mean 113.6
Std Dev 92.64

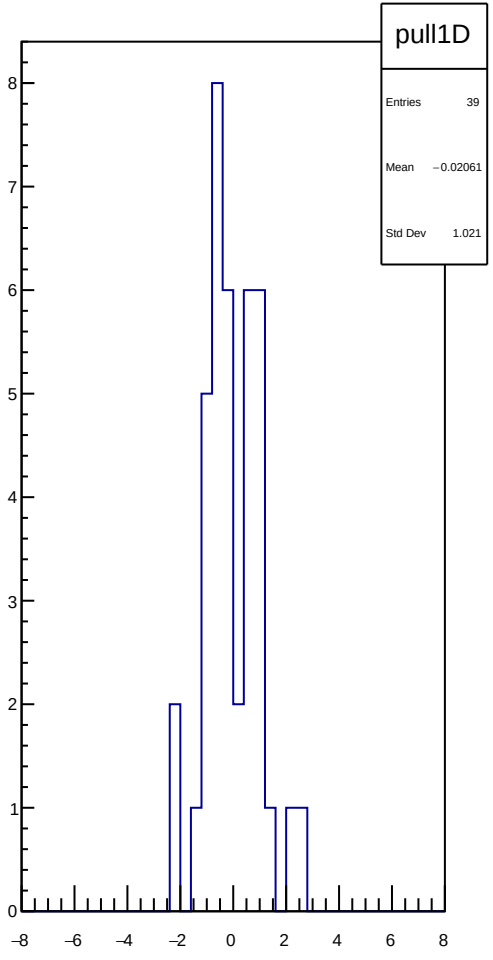

pull1D
Entries 39
Mean 0.03693
Std Dev 0.9685

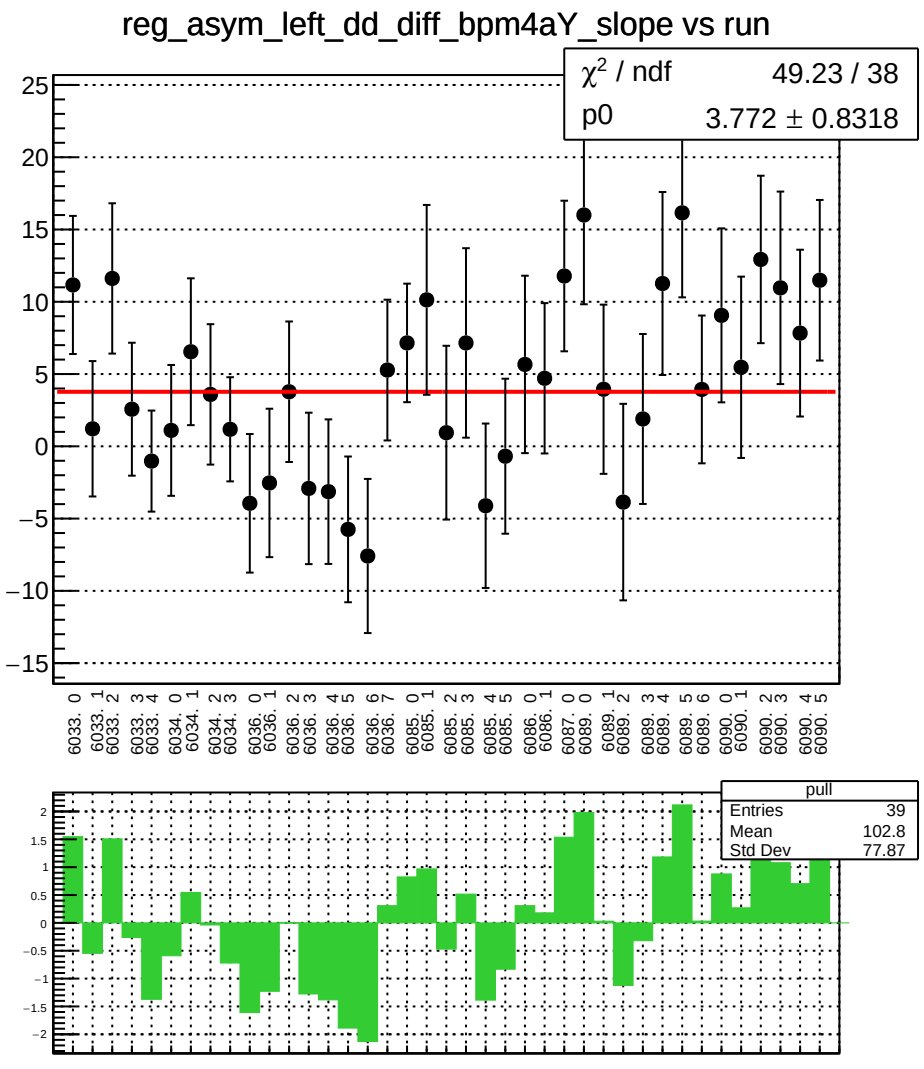

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.97 / 38
p0 4.475 ± 0.892
pull
Entries 39
Mean 211.6
Std Dev 186

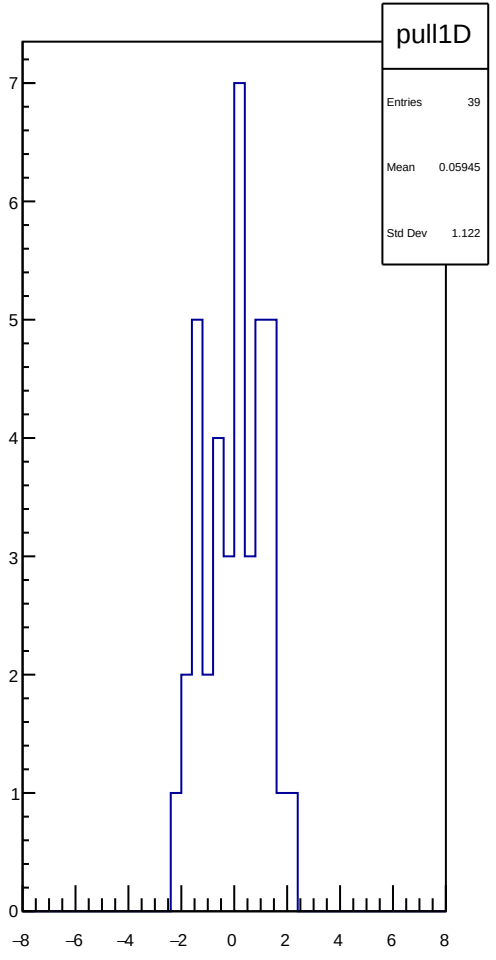

pull1D
Entries 39
Mean −0.02459
Std Dev 1.176

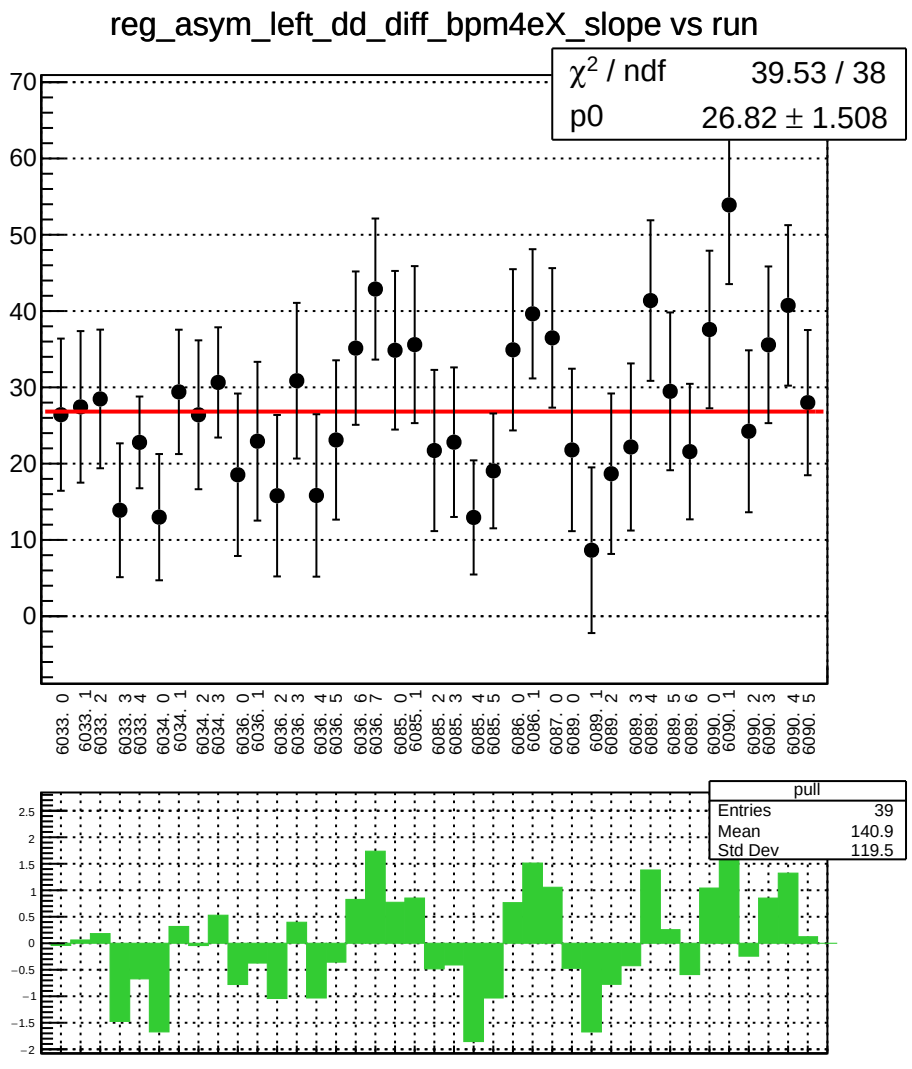

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 163.9 / 38
p0 −18.62 ± 0.06907
pull
Entries 39
Mean 574.6
Std Dev 555.2
pull1D
Entries 39
Mean −0.02905
Std Dev 2.05

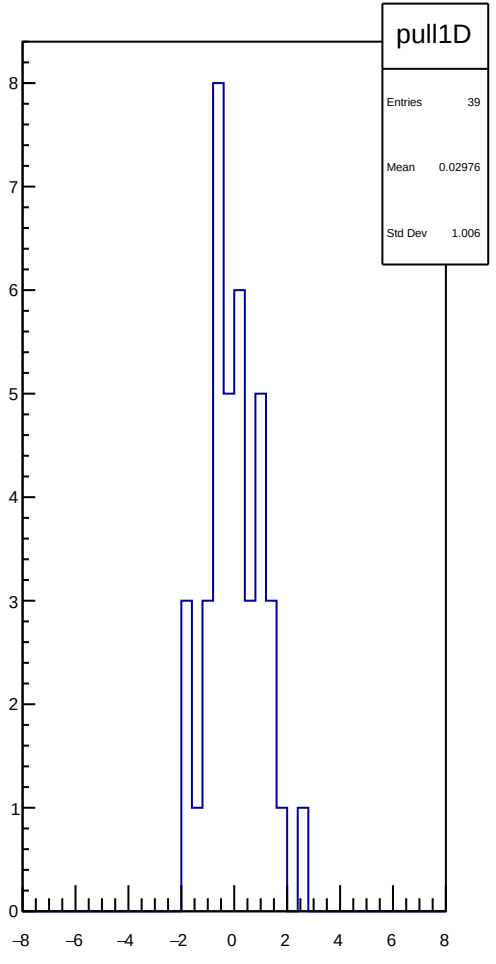

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.67 / 38
p0 −46.92 ± 1.35
−20
−30
−40
−50
−60
−70
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −10.78
Std Dev 10.77
2
1
0
−1
−2

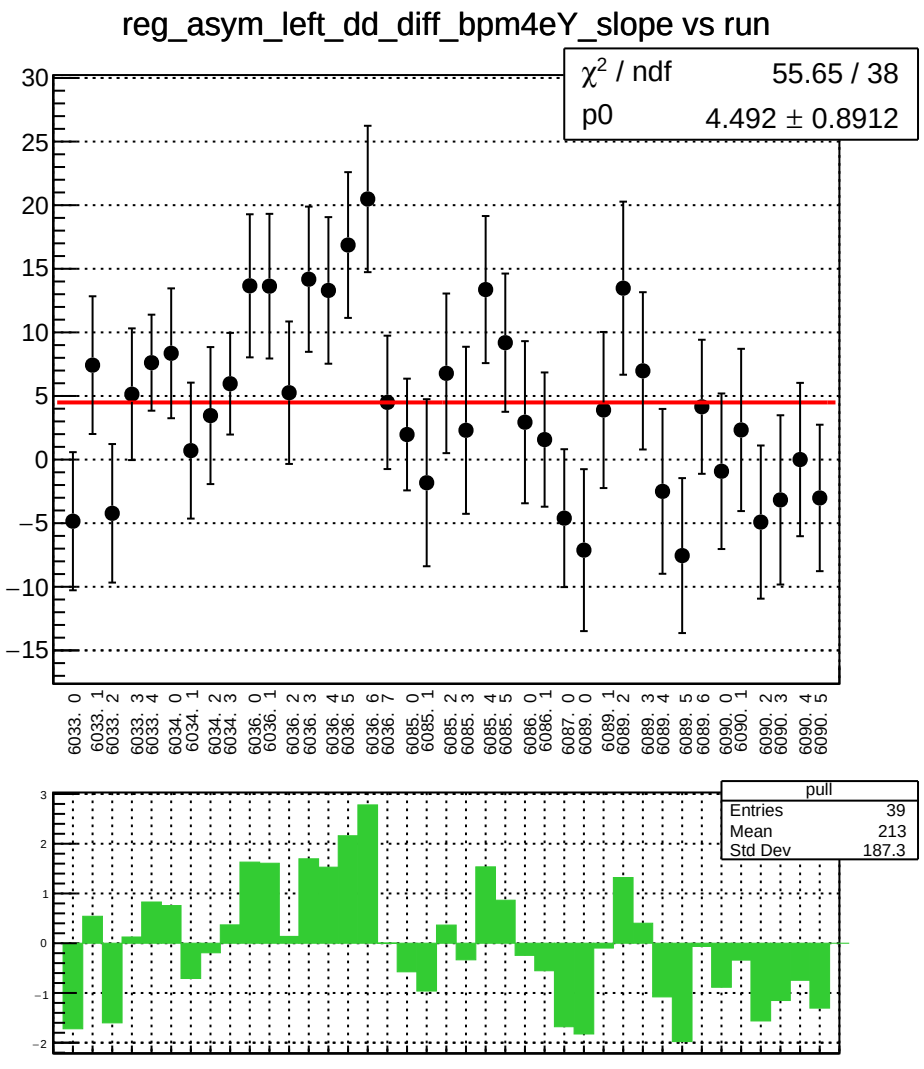

pull1D
Entries 39
Mean −0.02061
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

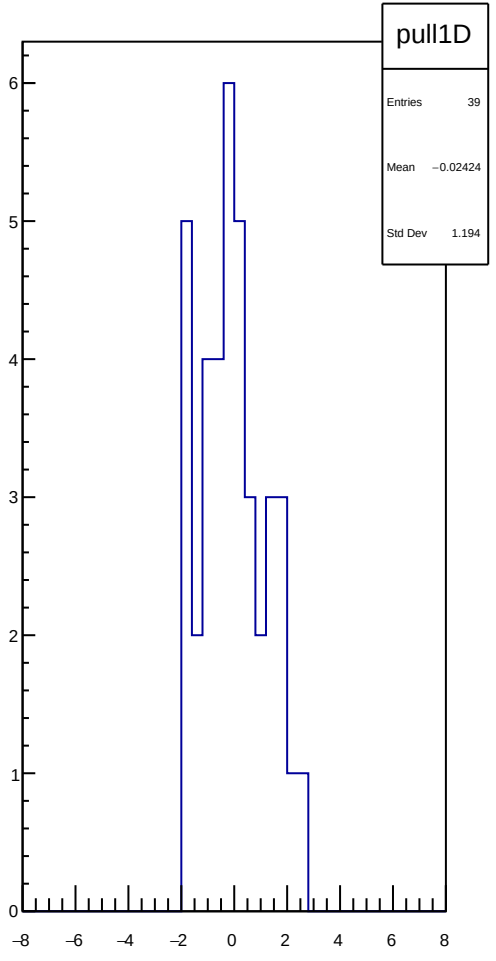

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.23 / 38
p0 3.772 ± 0.8318
pull
Entries 39
Mean 102.8
Std Dev 77.87

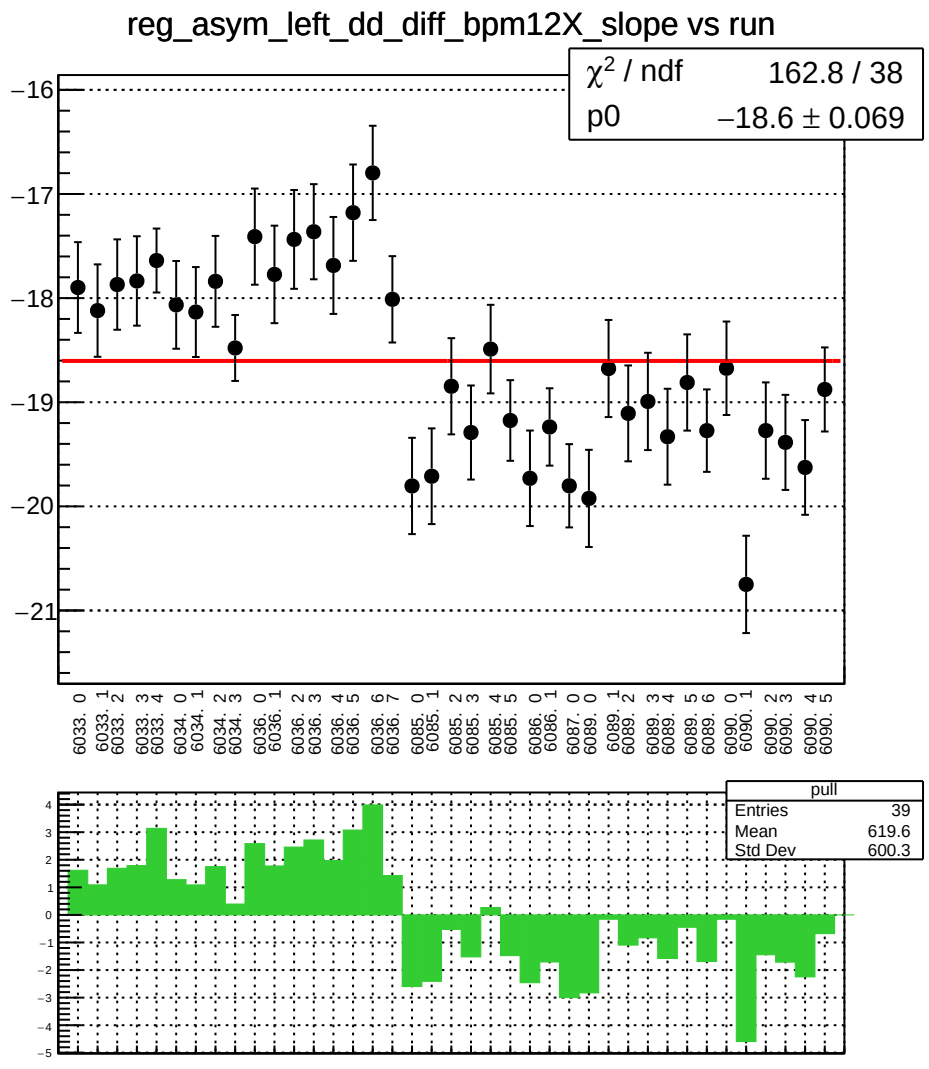

pull1D
Entries 39
Mean 0.05945
Std Dev 1.122

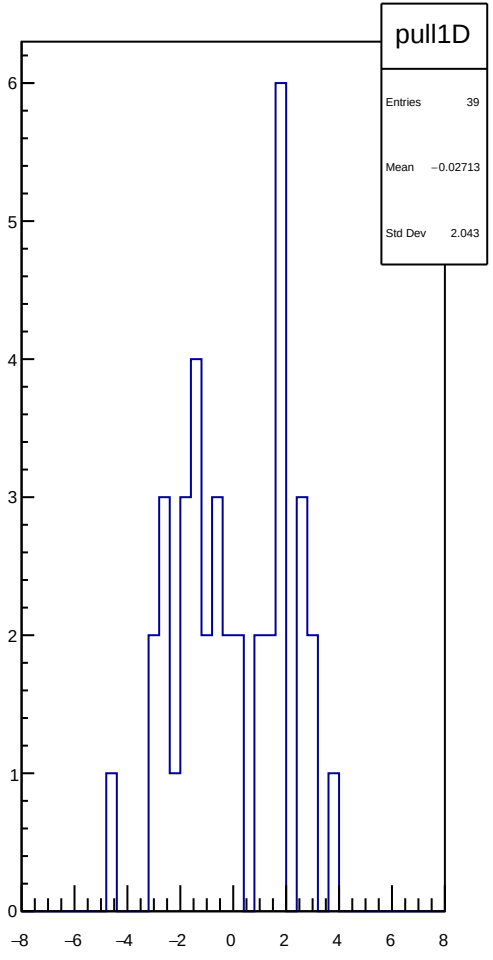

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.53 / 38
p0 26.82 ± 1.508
pull
Entries 39
Mean 140.9
Std Dev 119.5

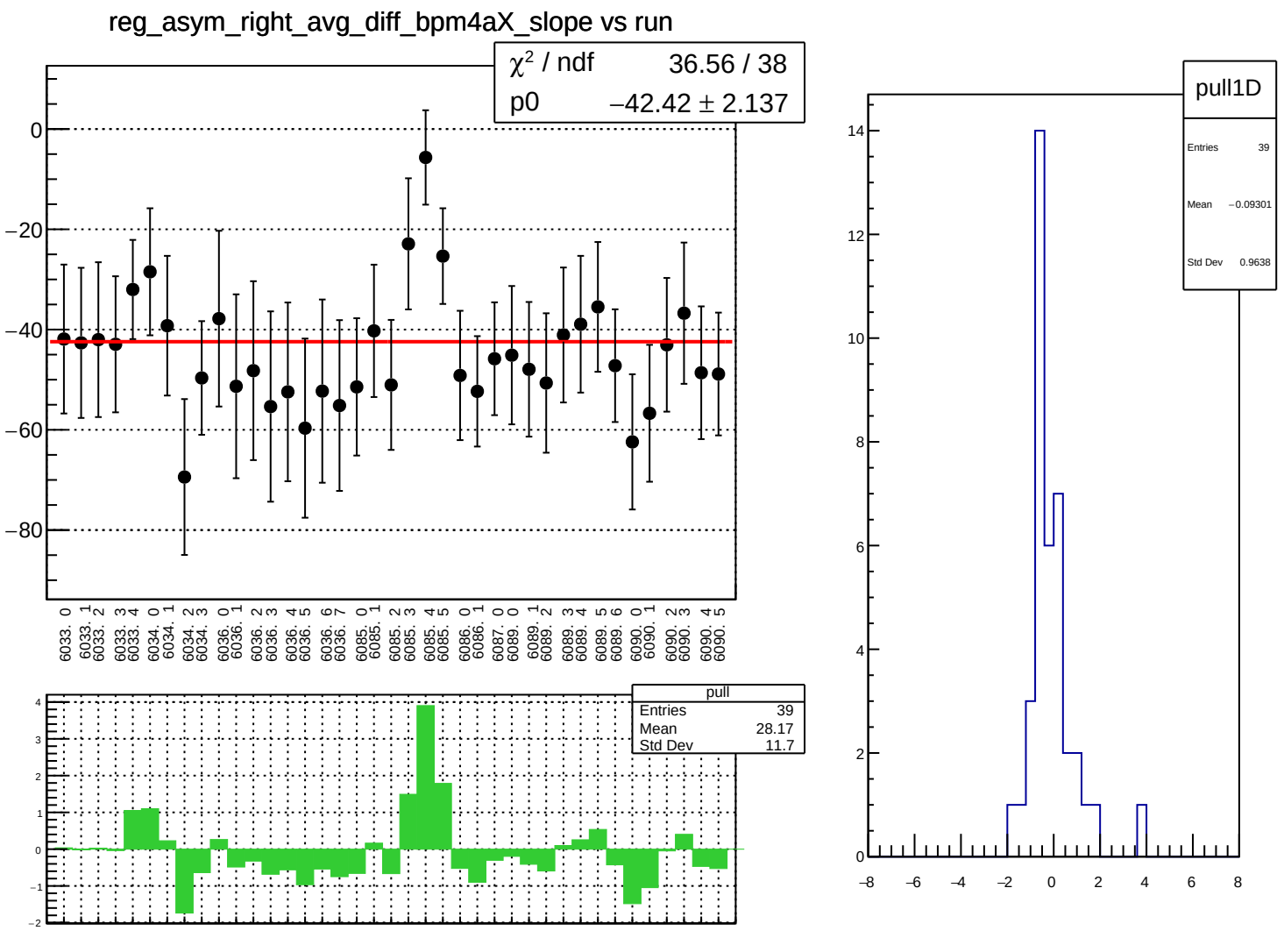

pull1D
Entries 39
Mean 0.02976
Std Dev 1.006

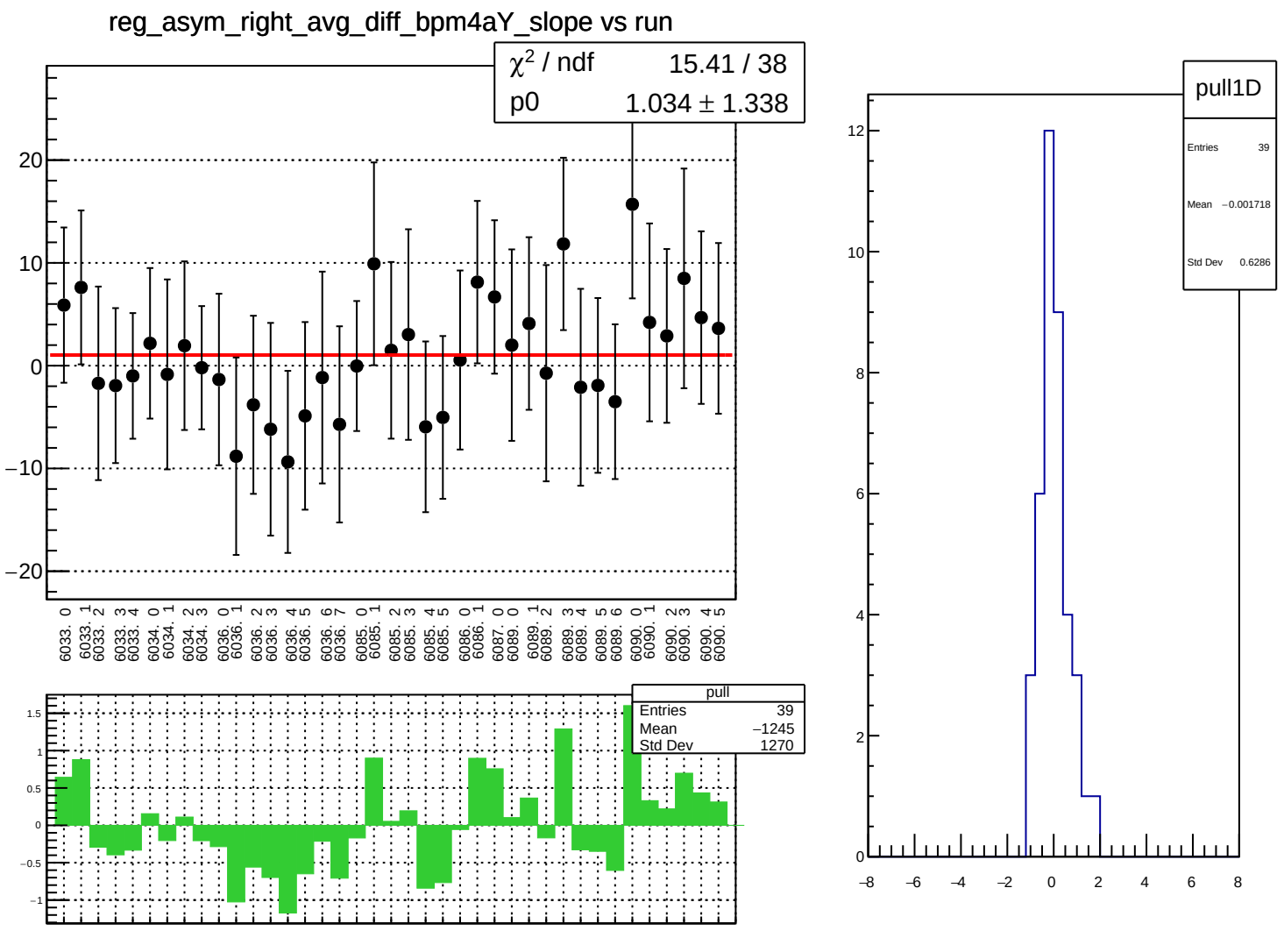

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.65 / 38
p0 4.492 ± 0.8912
pull
Entries 39
Mean 213
Std Dev 187.3

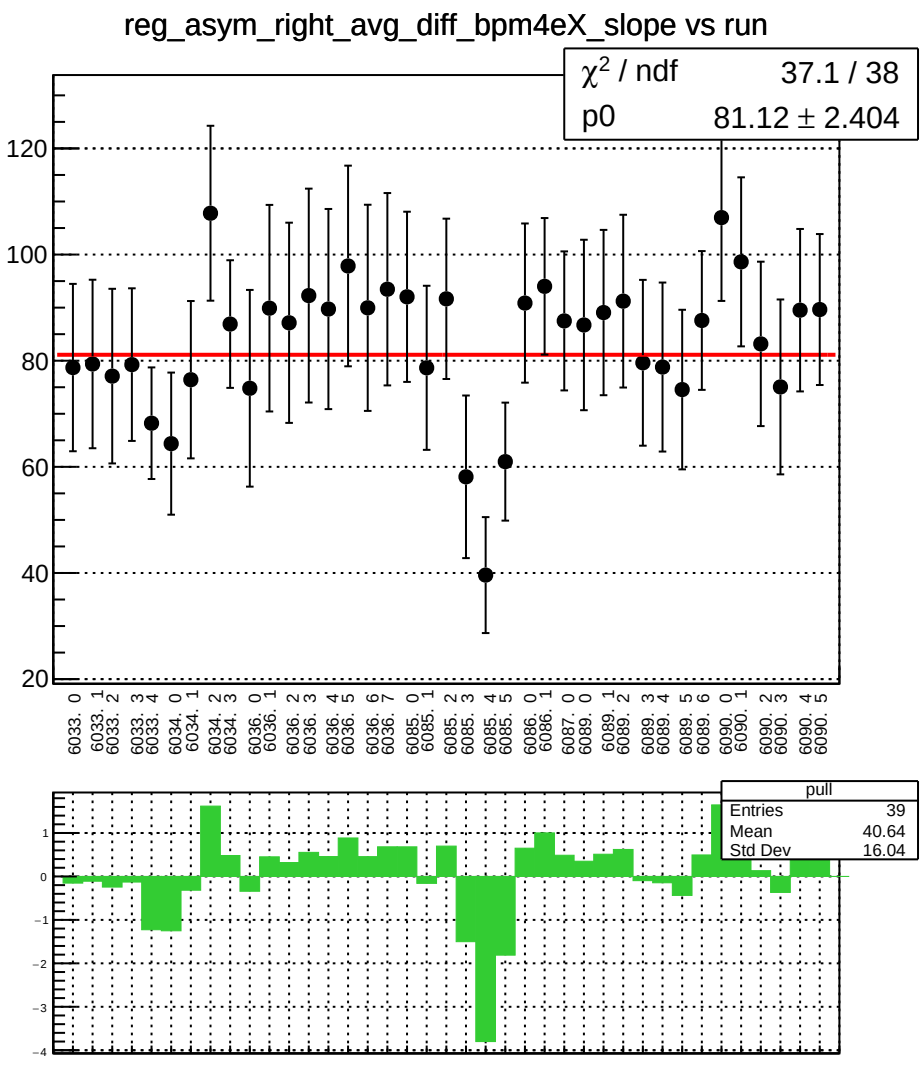

pull1D
Entries 39
Mean −0.02424
Std Dev 1.194

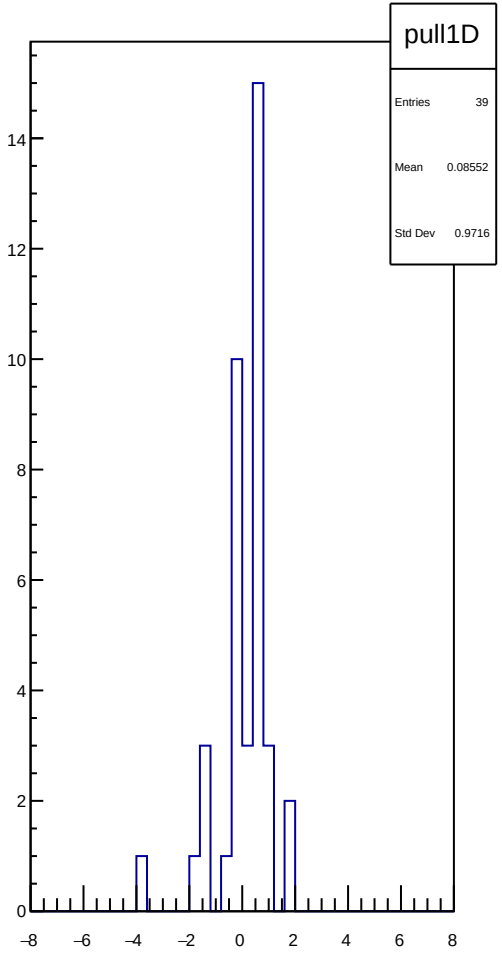

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 162.8 / 38
p0 −18.6 ± 0.069
pull
Entries 39
Mean 619.6
Std Dev 600.3

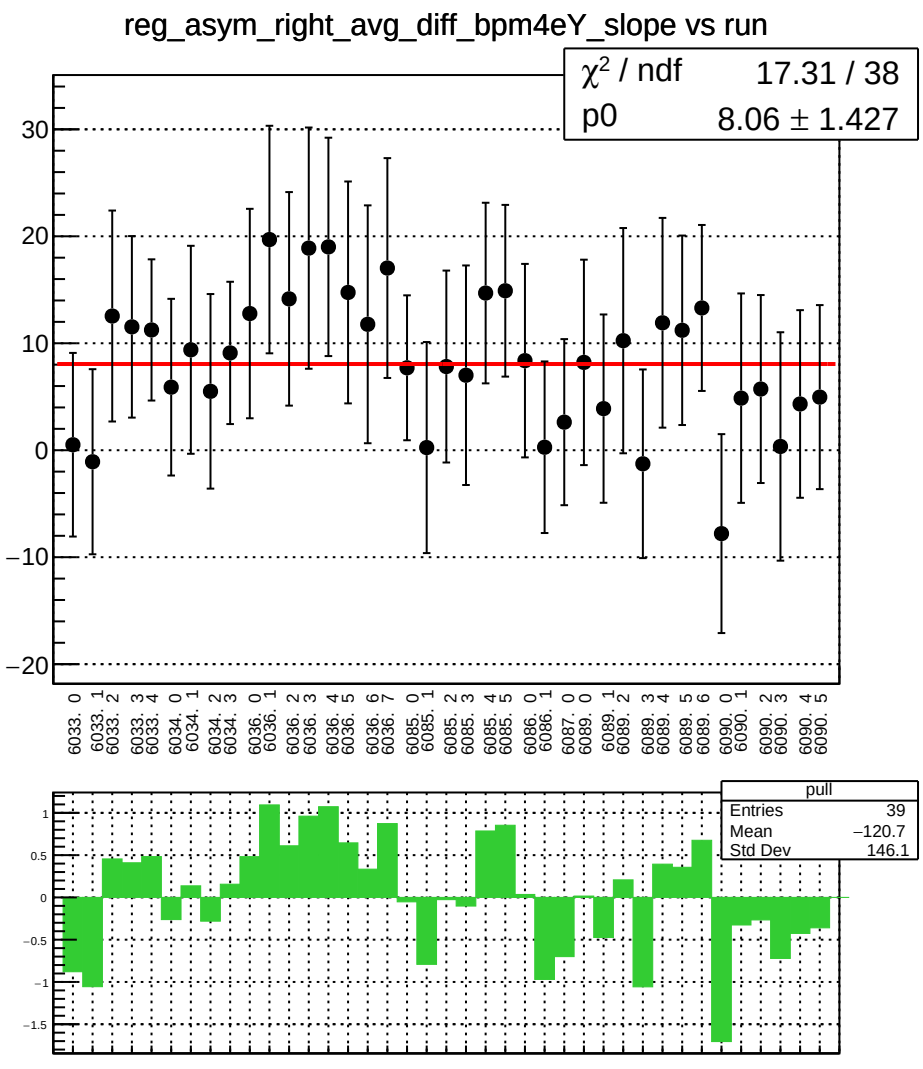

pull1D
Entries 39
Mean −0.02713
Std Dev 2.043

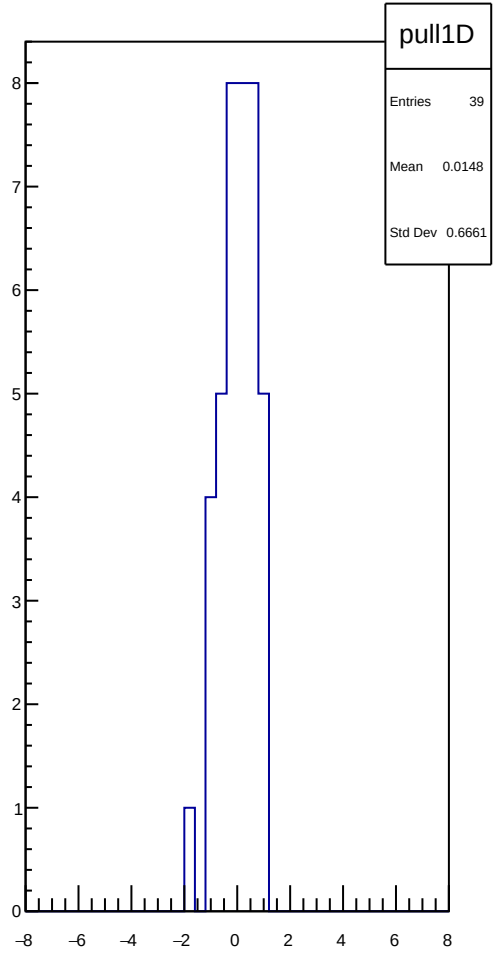

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.56 / 38
p0 −42.42 ± 2.137
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 28.17
Std Dev 11.7
4
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.09301
Std Dev 0.9638
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

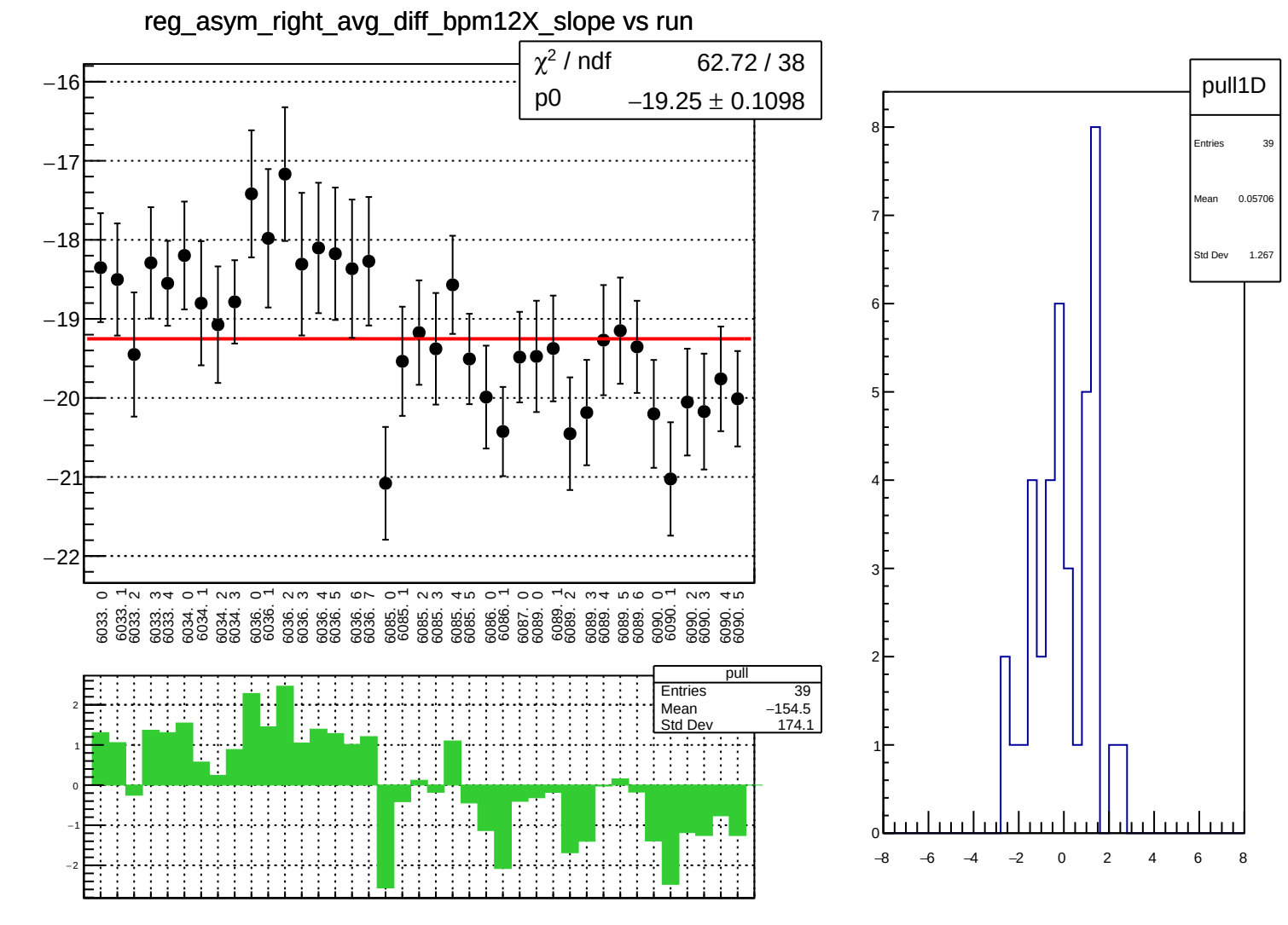

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.41 / 38
p0 1.034 ± 1.338
pull
Entries 39
Mean −1245
Std Dev 1270
pull1D
Entries 39
Mean −0.001718
Std Dev 0.6286

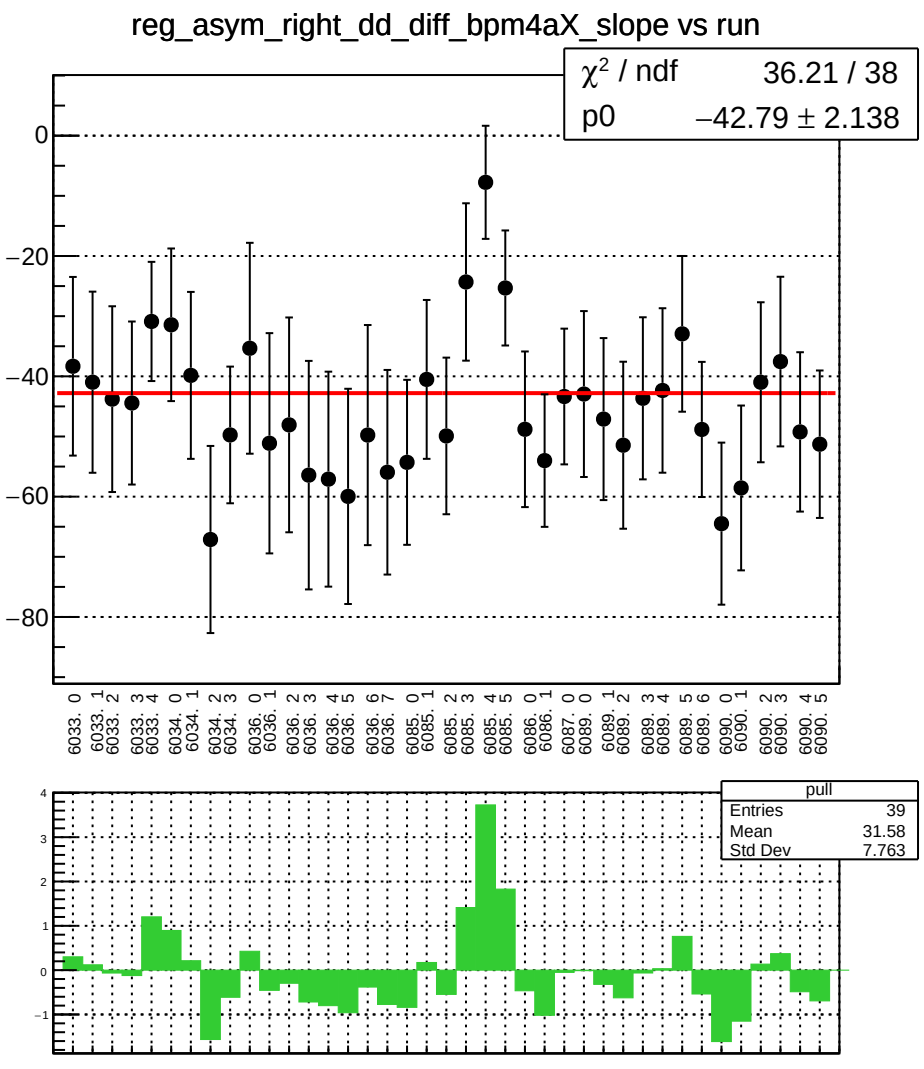

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.1 / 38
p0 81.12 ± 2.404
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 40.64
Std Dev 16.04
1
0
−1
−2
−3
−4

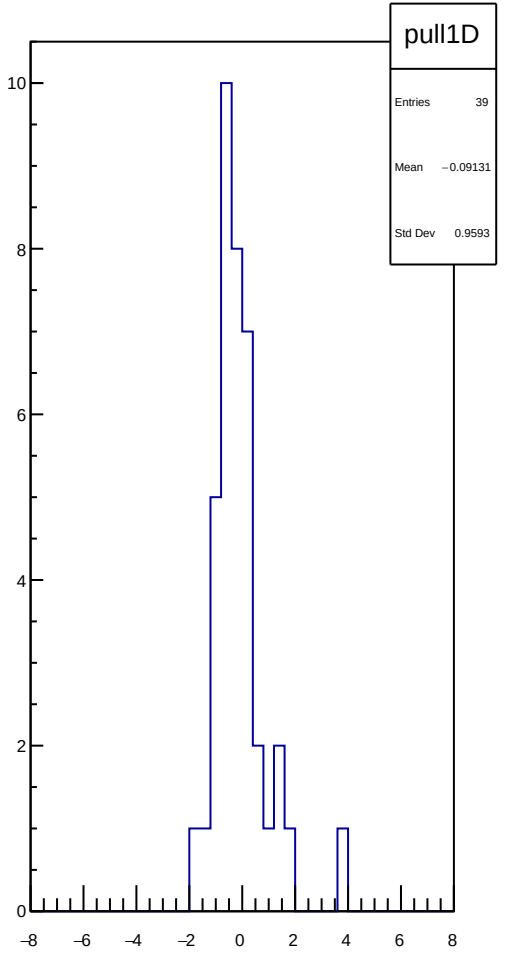

pull1D
Entries 39
Mean 0.08552
Std Dev 0.9716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

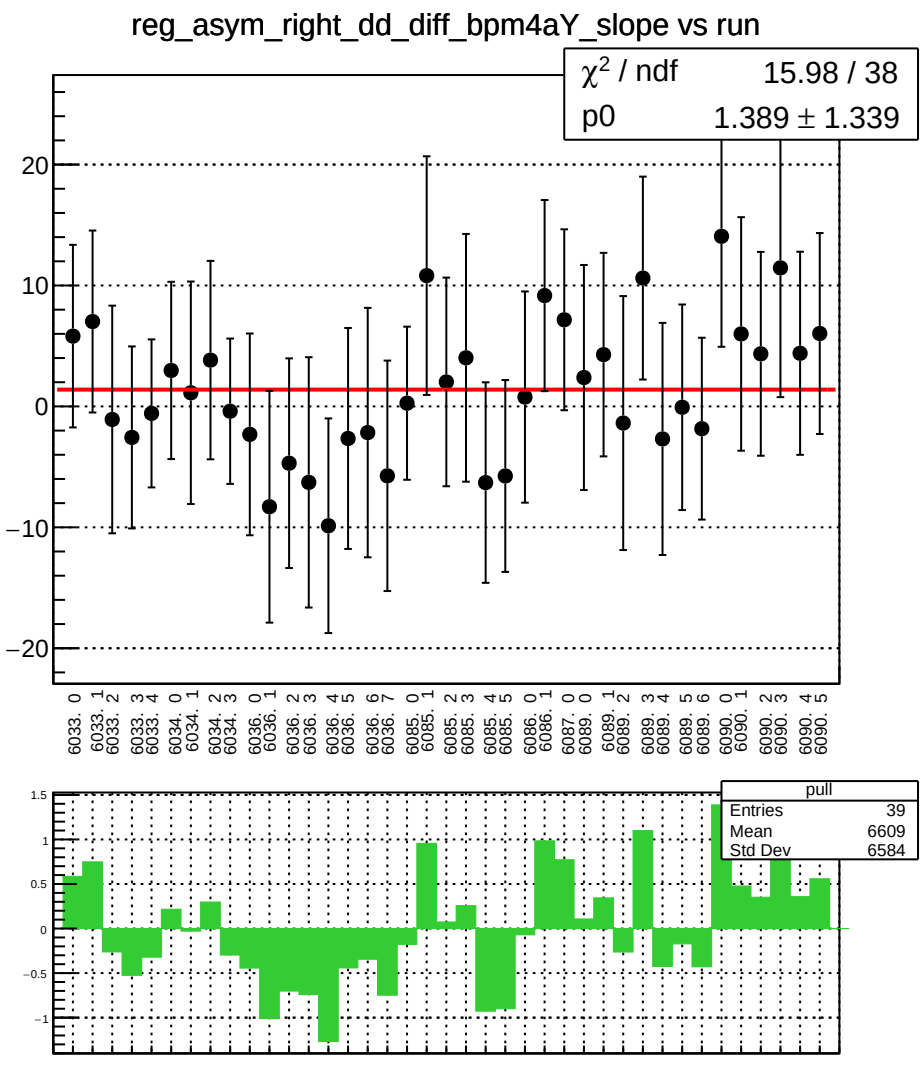

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.31 / 38
p0 8.06 ± 1.427
pull
Entries 39
Mean −120.7
Std Dev 146.1

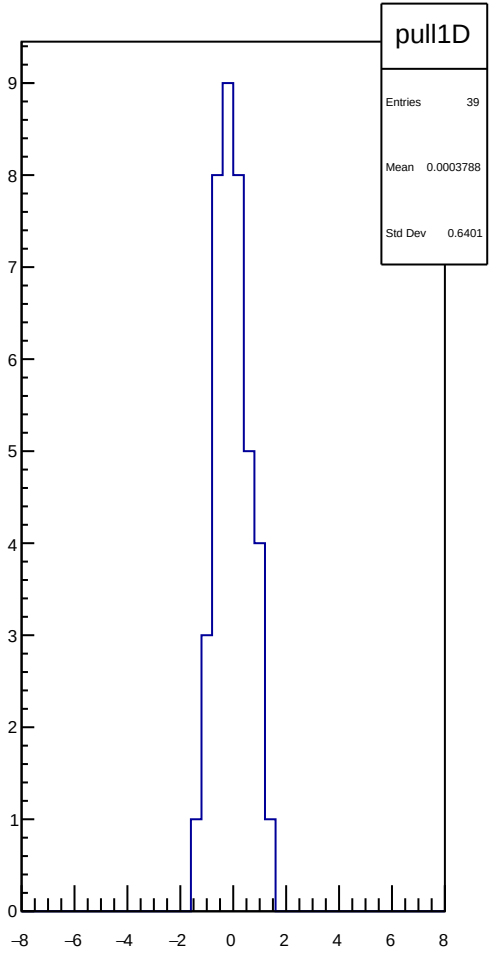

pull1D
Entries 39
Mean 0.0148
Std Dev 0.6661

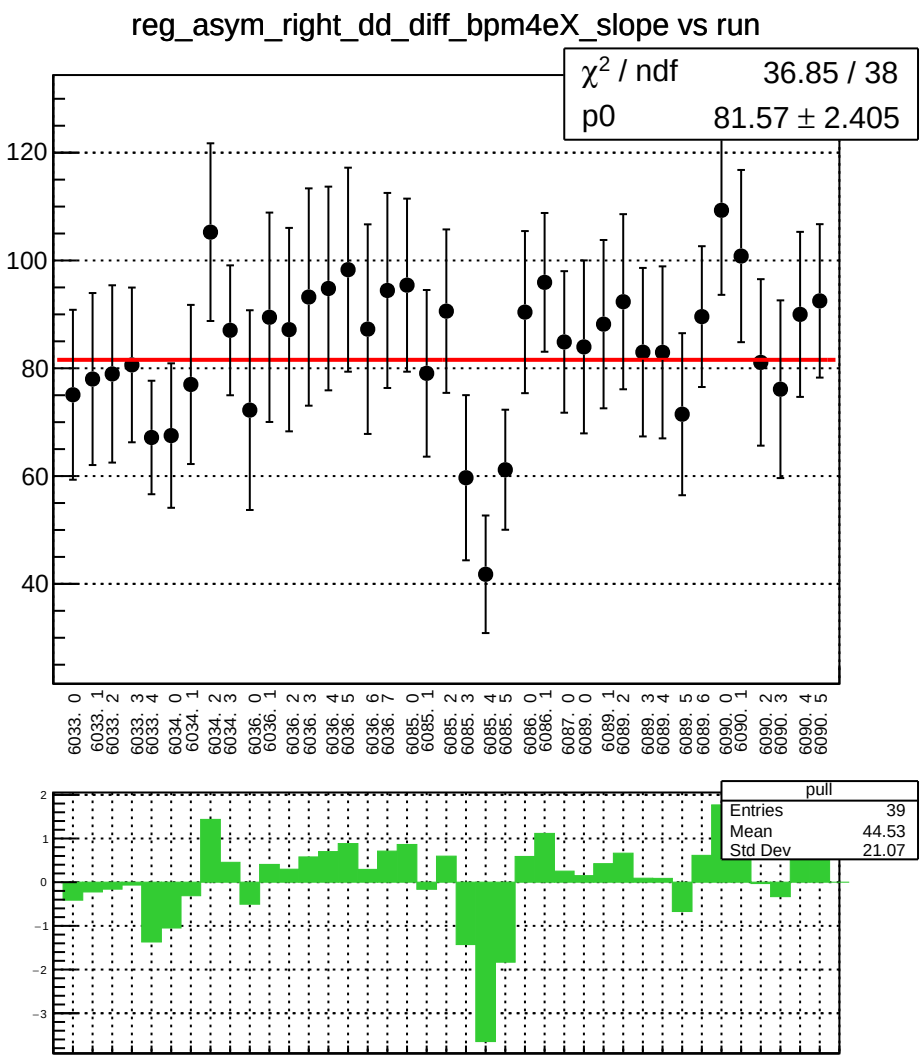

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 62.72 / 38
p0 −19.25 ± 0.1098
−16
−17
−18
−19
−20
−21
−22
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −154.5
Std Dev 174.1
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.05706
Std Dev 1.267
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

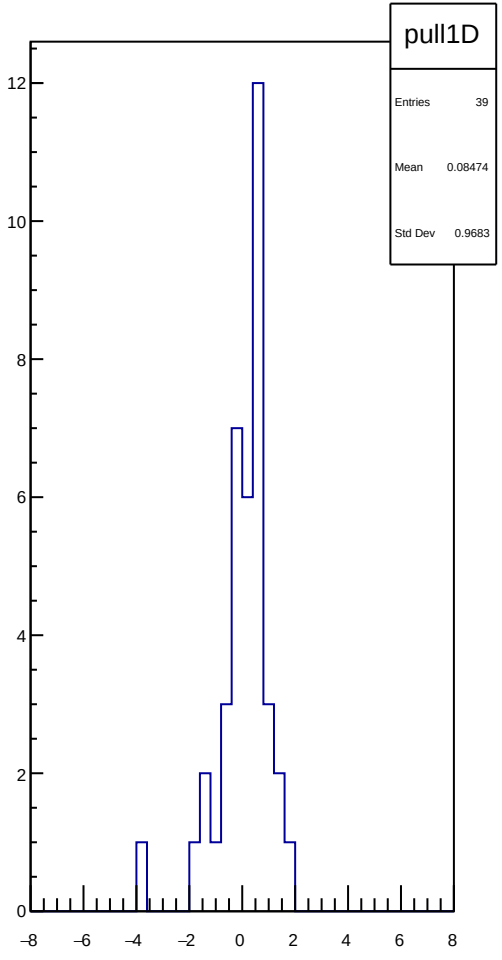

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.21 / 38
p0 −42.79 ± 2.138
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 31.58
Std Dev 7.763
4
3
2
1
0
−1

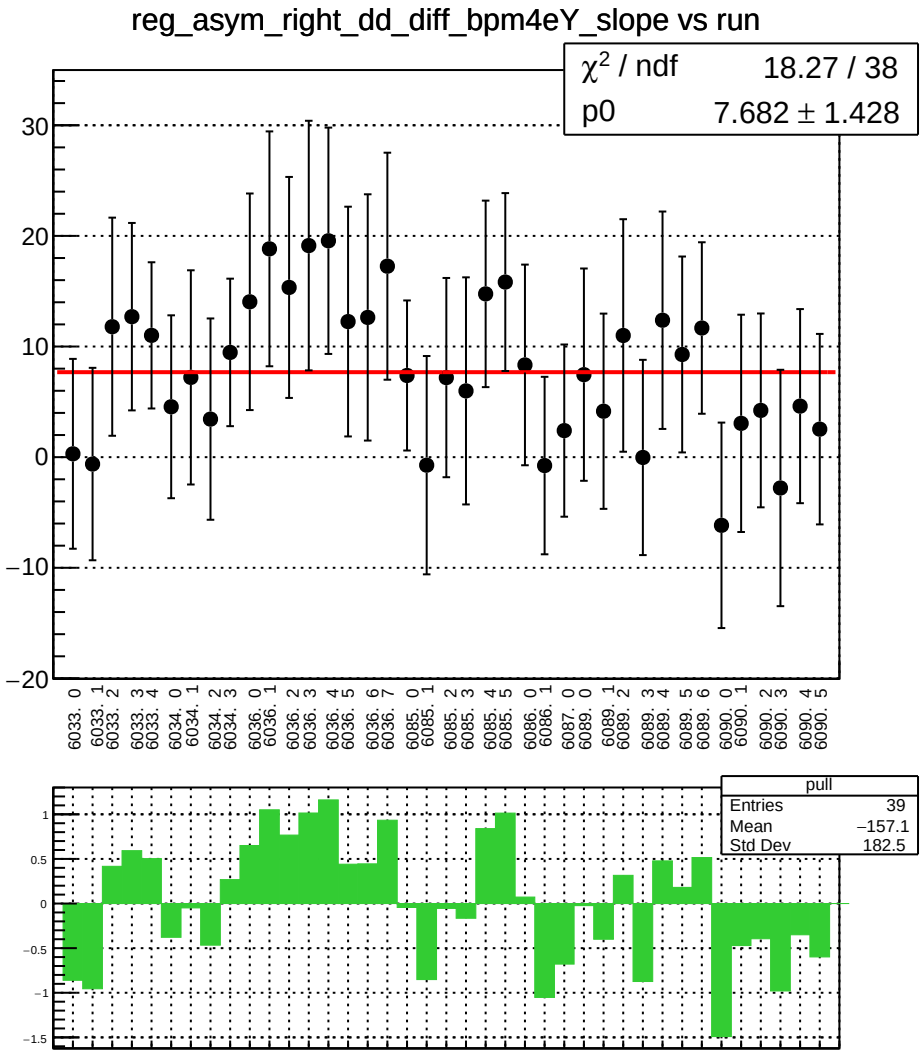

pull1D
Entries 39
Mean −0.09131
Std Dev 0.9593
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

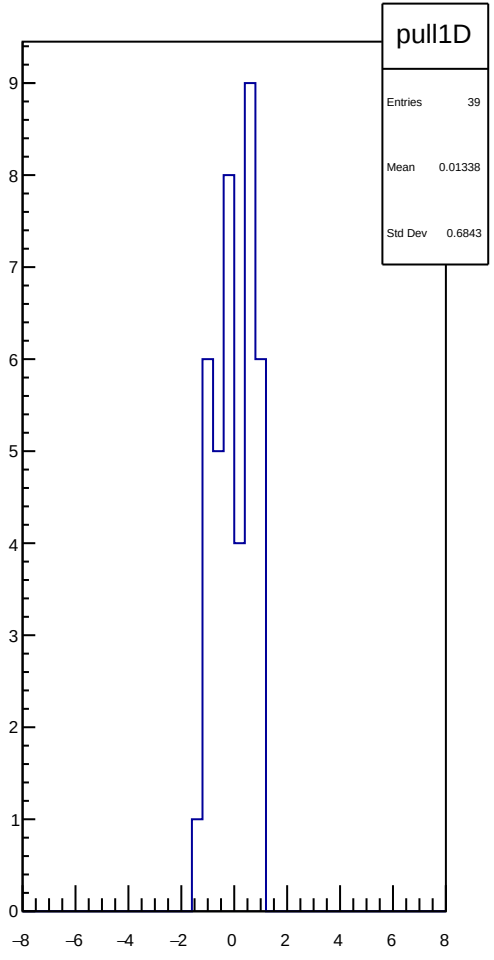

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.98 / 38
p0 1.389 ± 1.339
20
10
0
−10
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 6609
Std Dev 6584
1.5
1
0.5
0
−0.5
−1

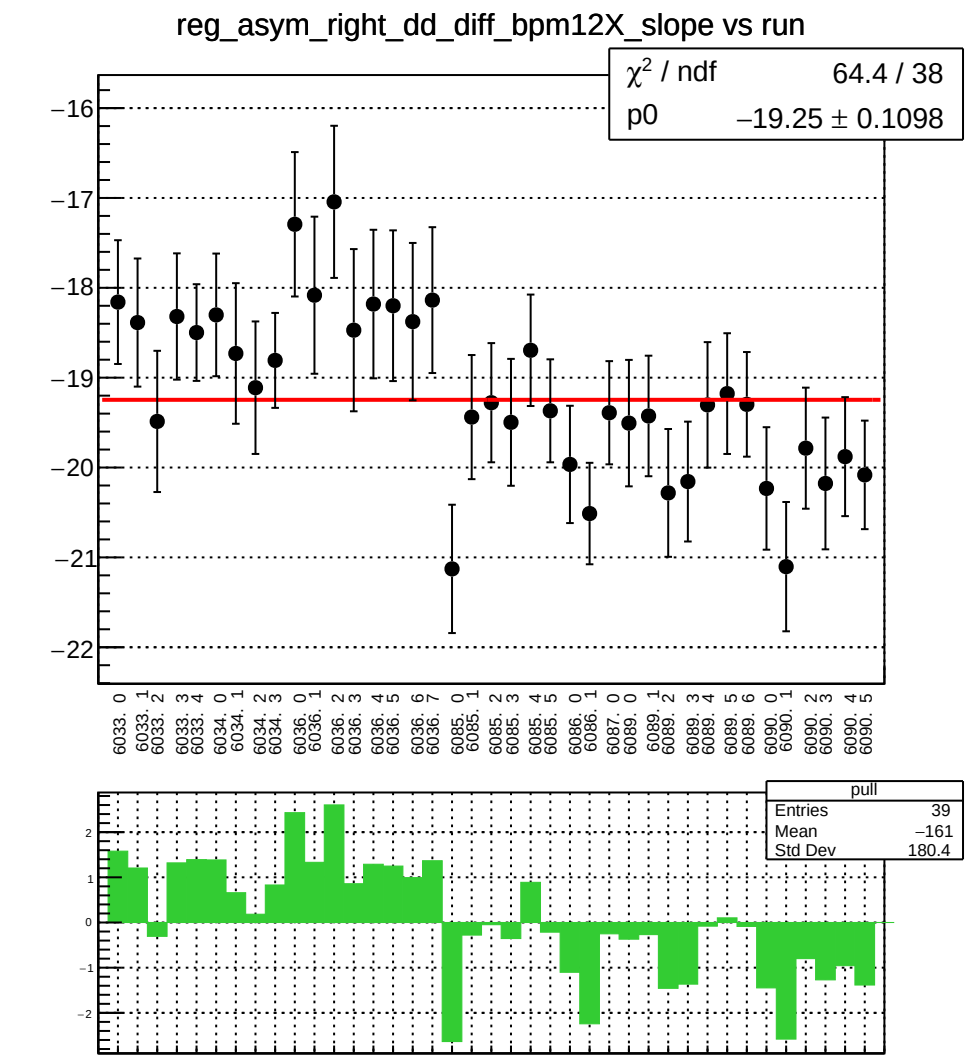

pull1D
Entries 39
Mean 0.0003788
Std Dev 0.6401
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

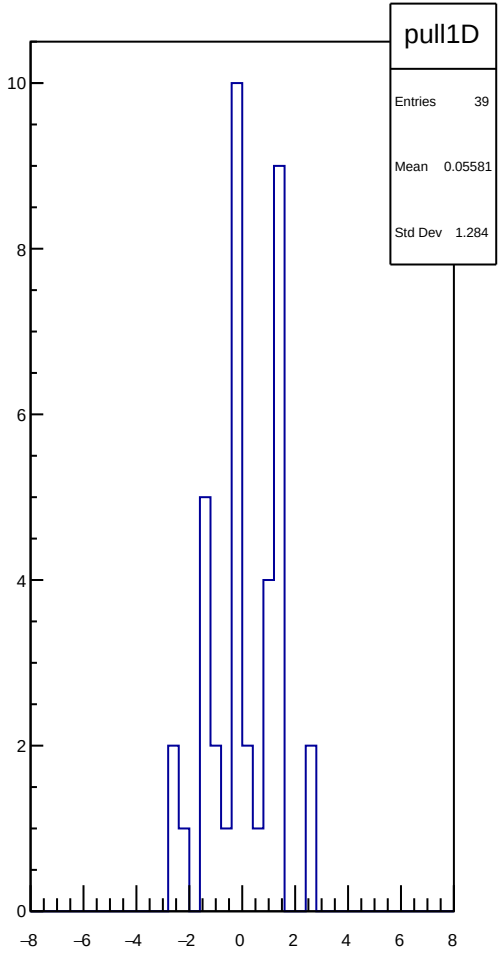

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.85 / 38
p0 81.57 ± 2.405
120
100
80
60
40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 44.53
Std Dev 21.07
2
1
0
−1
−2
−3

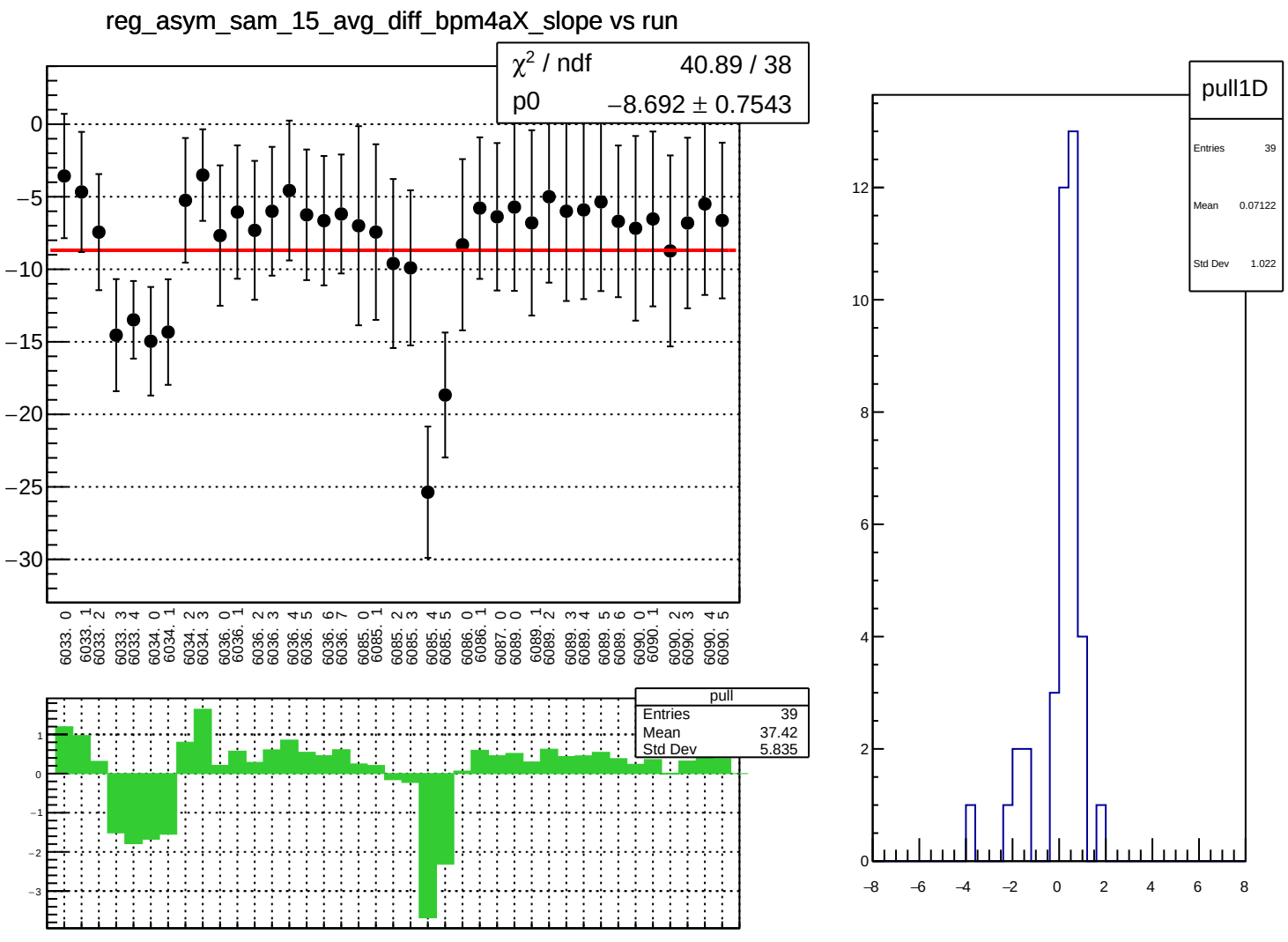

pull1D
Entries 39
Mean 0.08474
Std Dev 0.9683
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

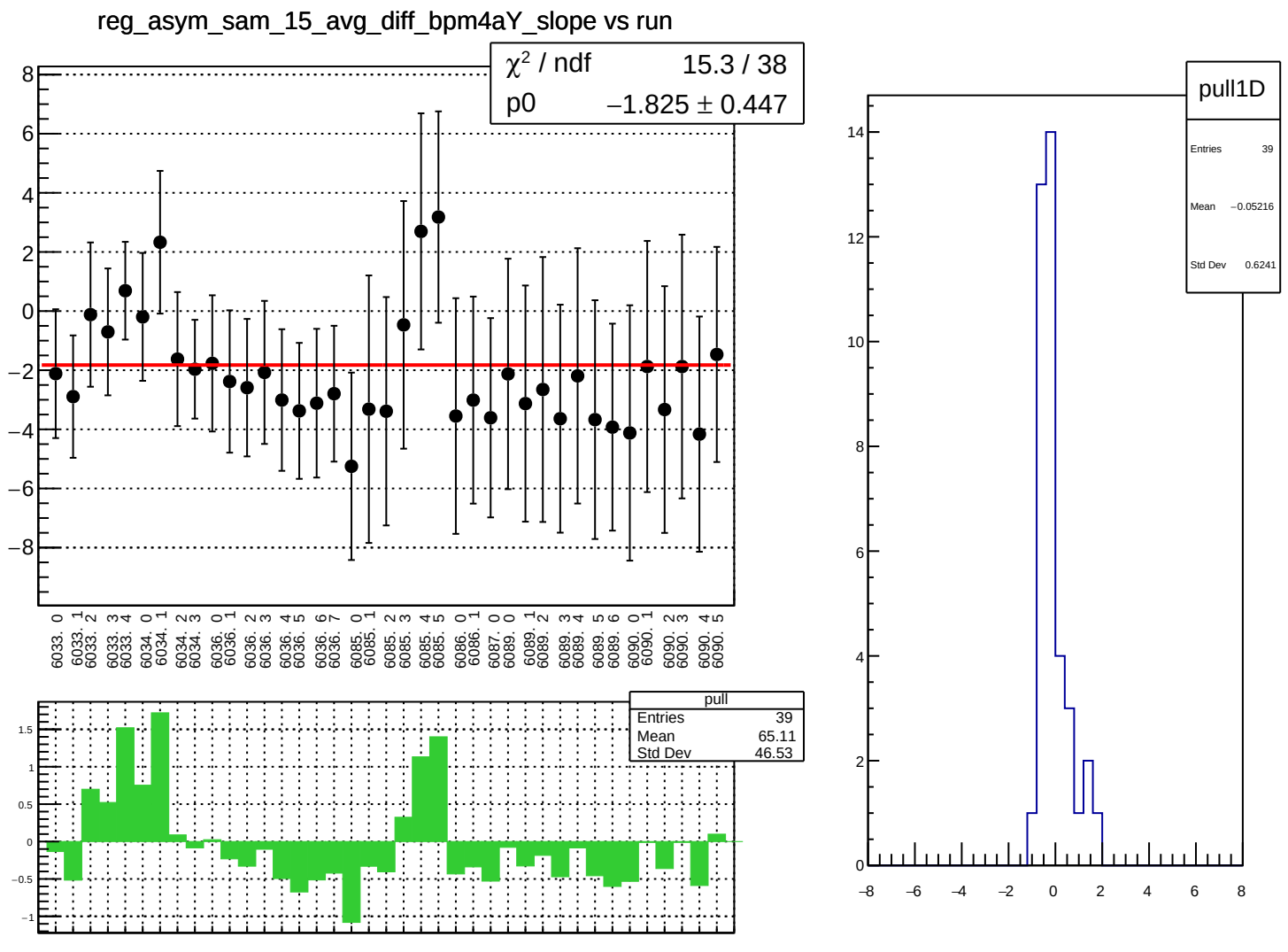

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.27 / 38
p0 7.682 ± 1.428
pull
Entries 39
Mean −157.1
Std Dev 182.5

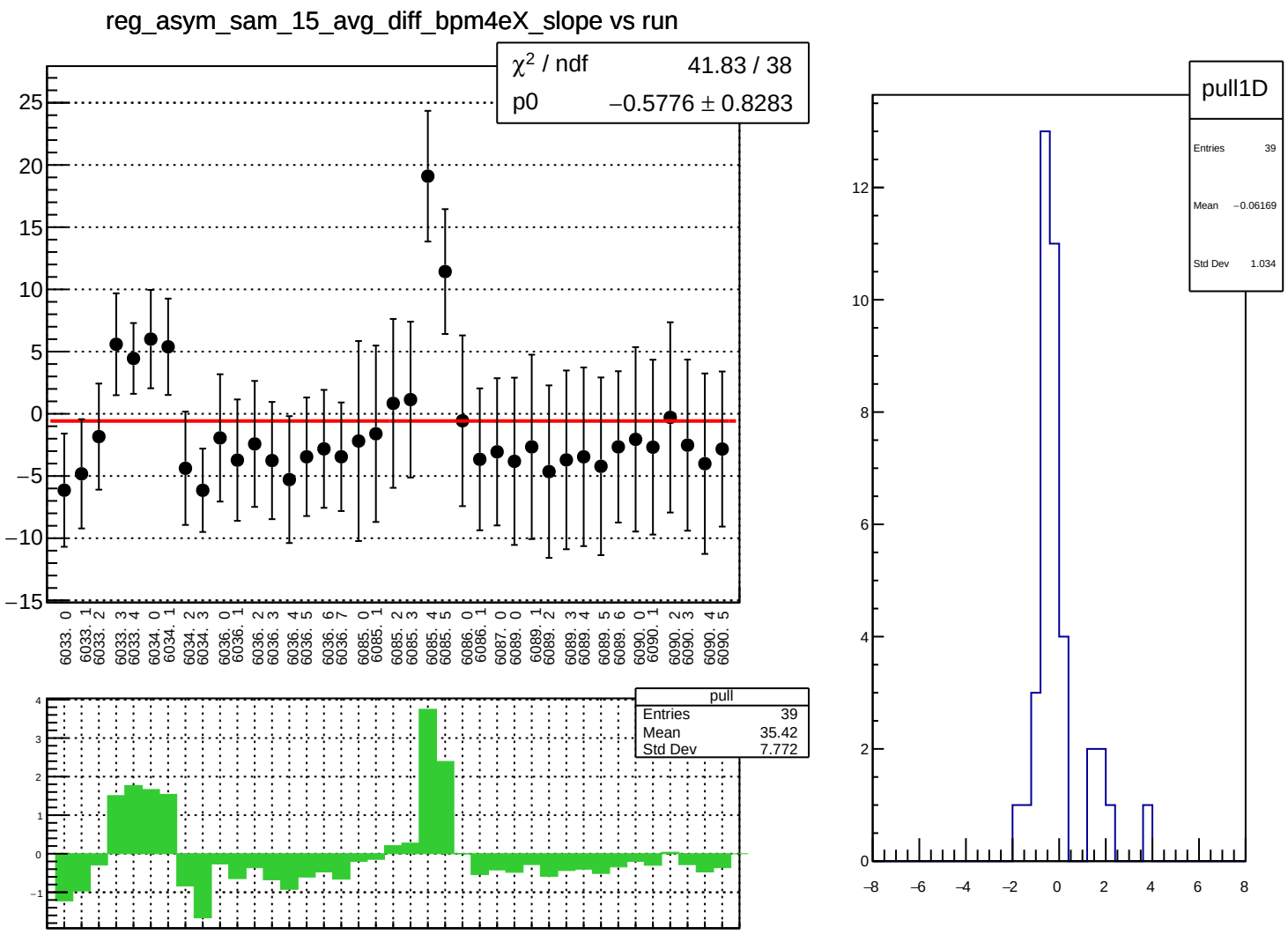

pull1D
Entries 39
Mean 0.01338
Std Dev 0.6843

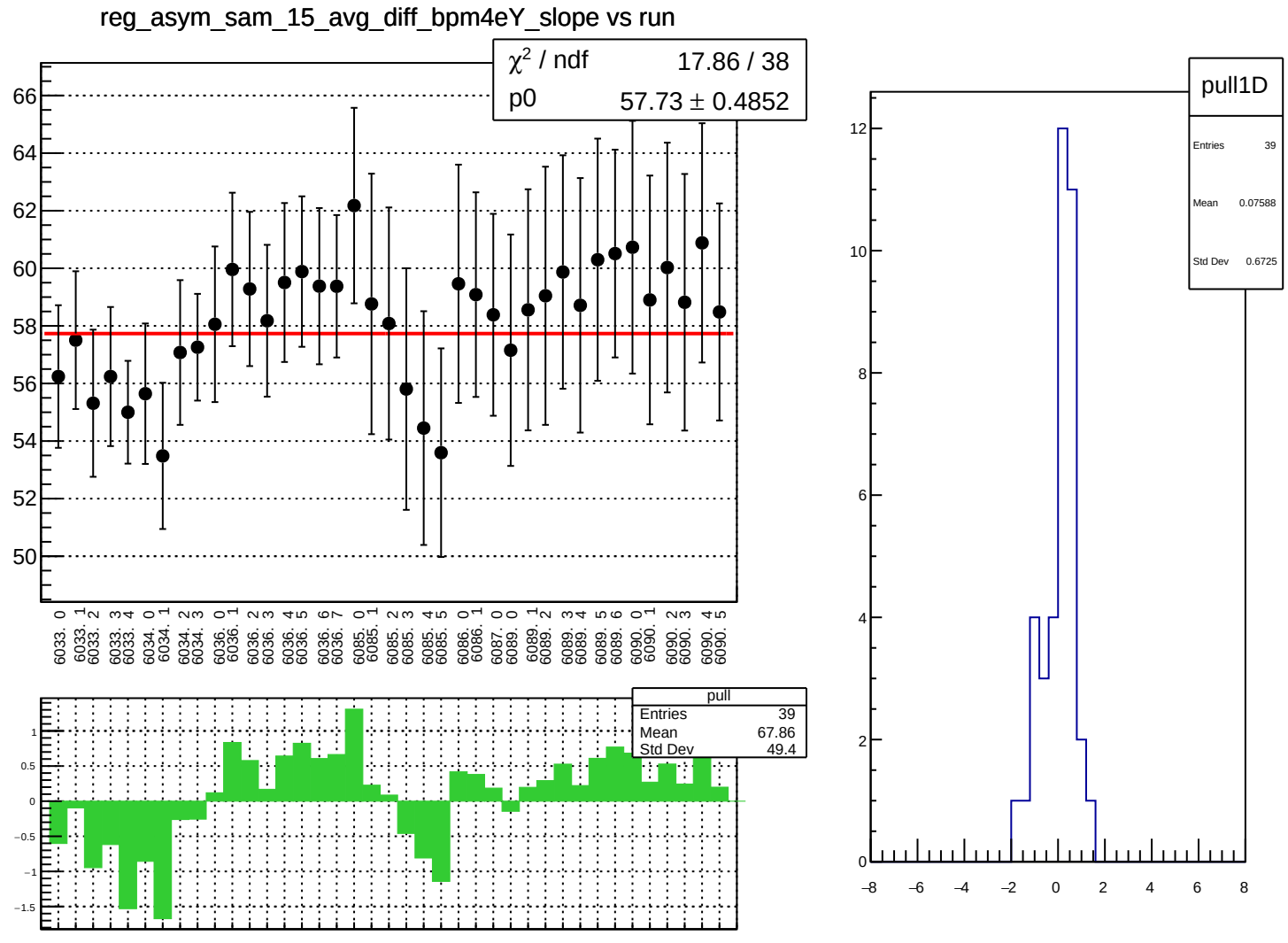

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 64.4 / 38
p0 −19.25 ± 0.1098
pull
Entries 39
Mean −161
Std Dev 180.4

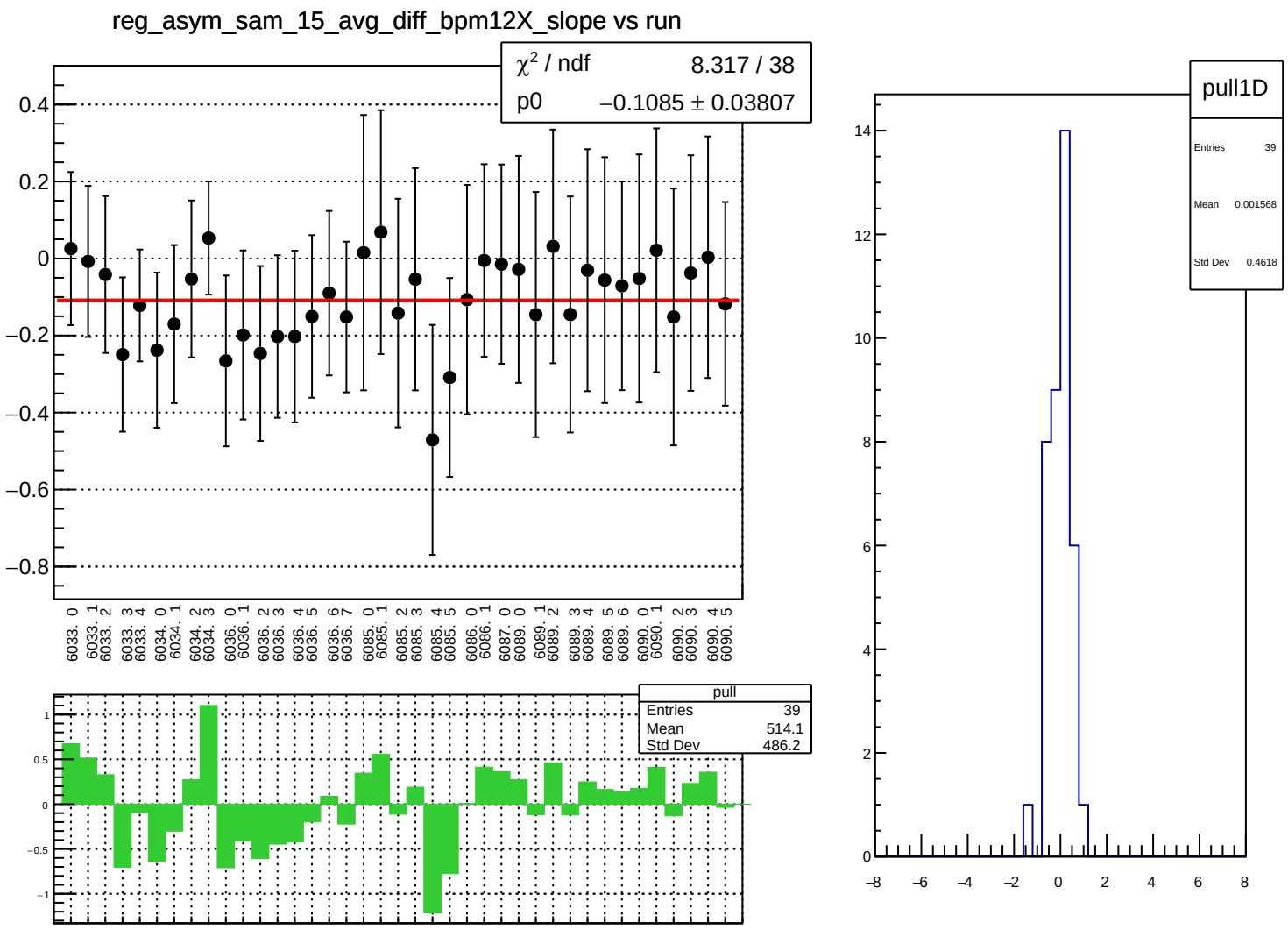

pull1D
Entries 39
Mean 0.05581
Std Dev 1.284

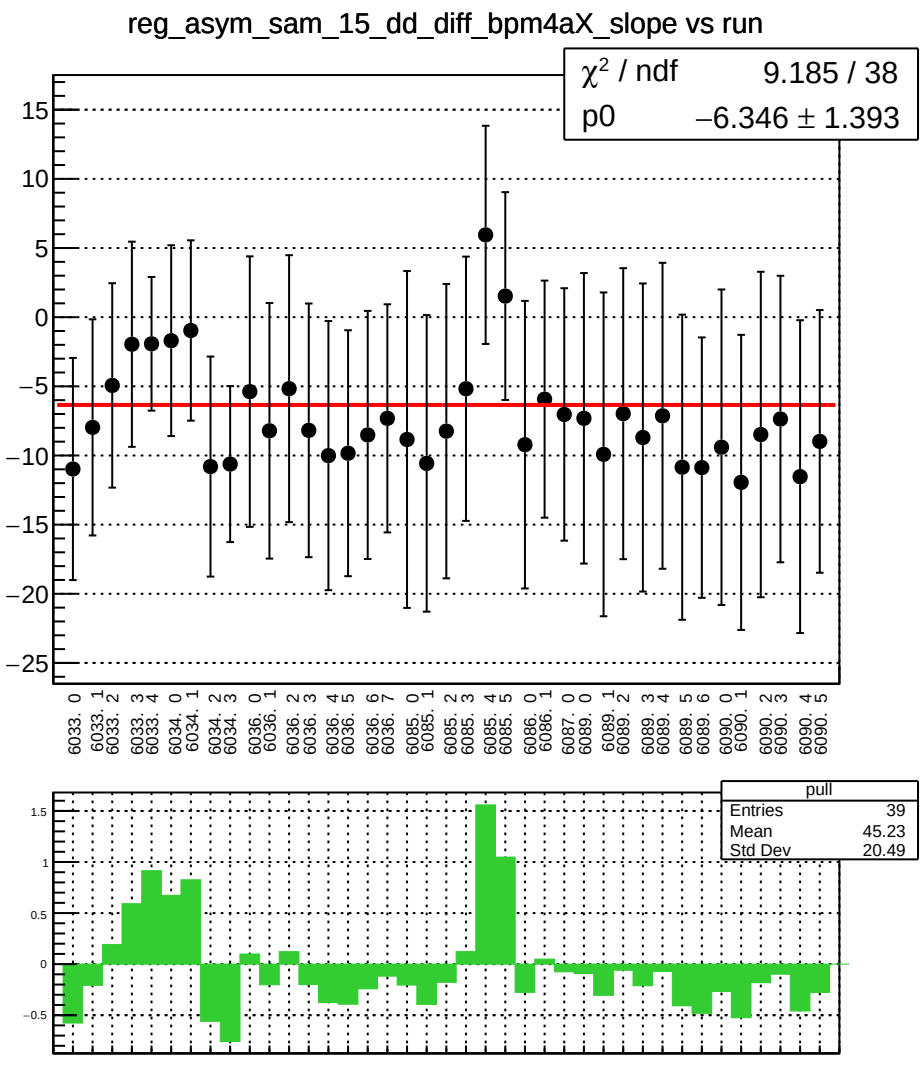

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.89 / 38
p0 −8.692 ± 0.7543
0
−5
−10
−15
−20
−25
−30
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 37.42
Std Dev 5.835
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.07122
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

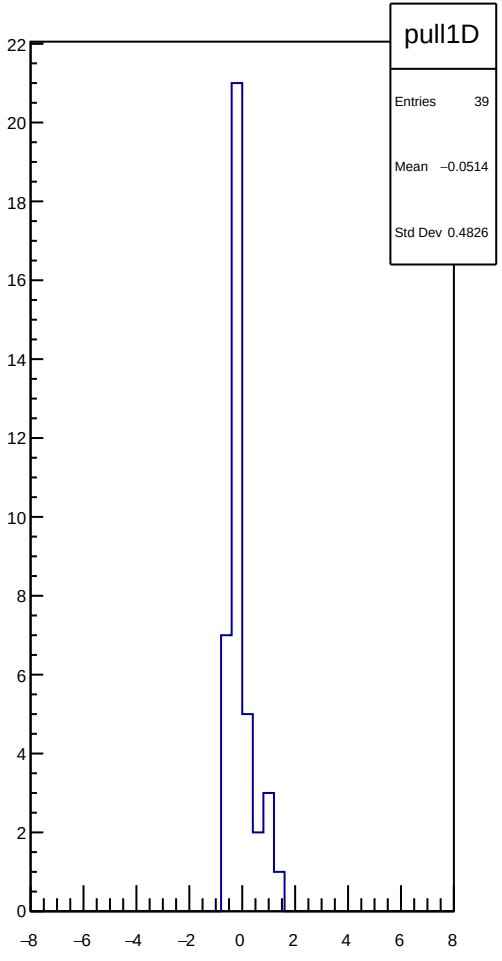

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.3 / 38
p0 −1.825 ± 0.447
pull
Entries 39
Mean 65.11
Std Dev 46.53
pull1D
Entries 39
Mean −0.05216
Std Dev 0.6241

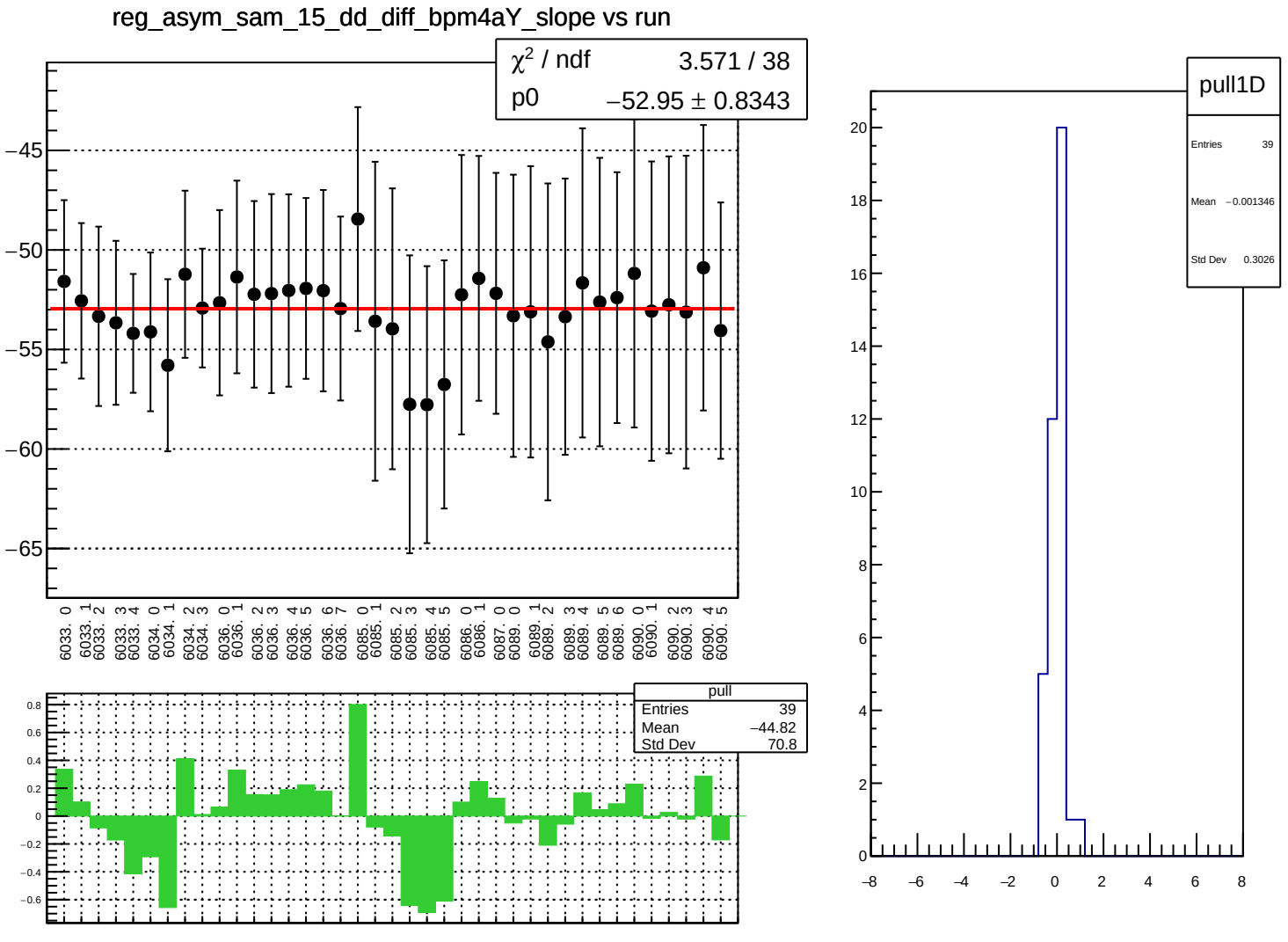

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.83 / 38
p0 −0.5776 ± 0.8283
pull
Entries 39
Mean 35.42
Std Dev 7.772
pull1D
Entries 39
Mean −0.06169
Std Dev 1.034

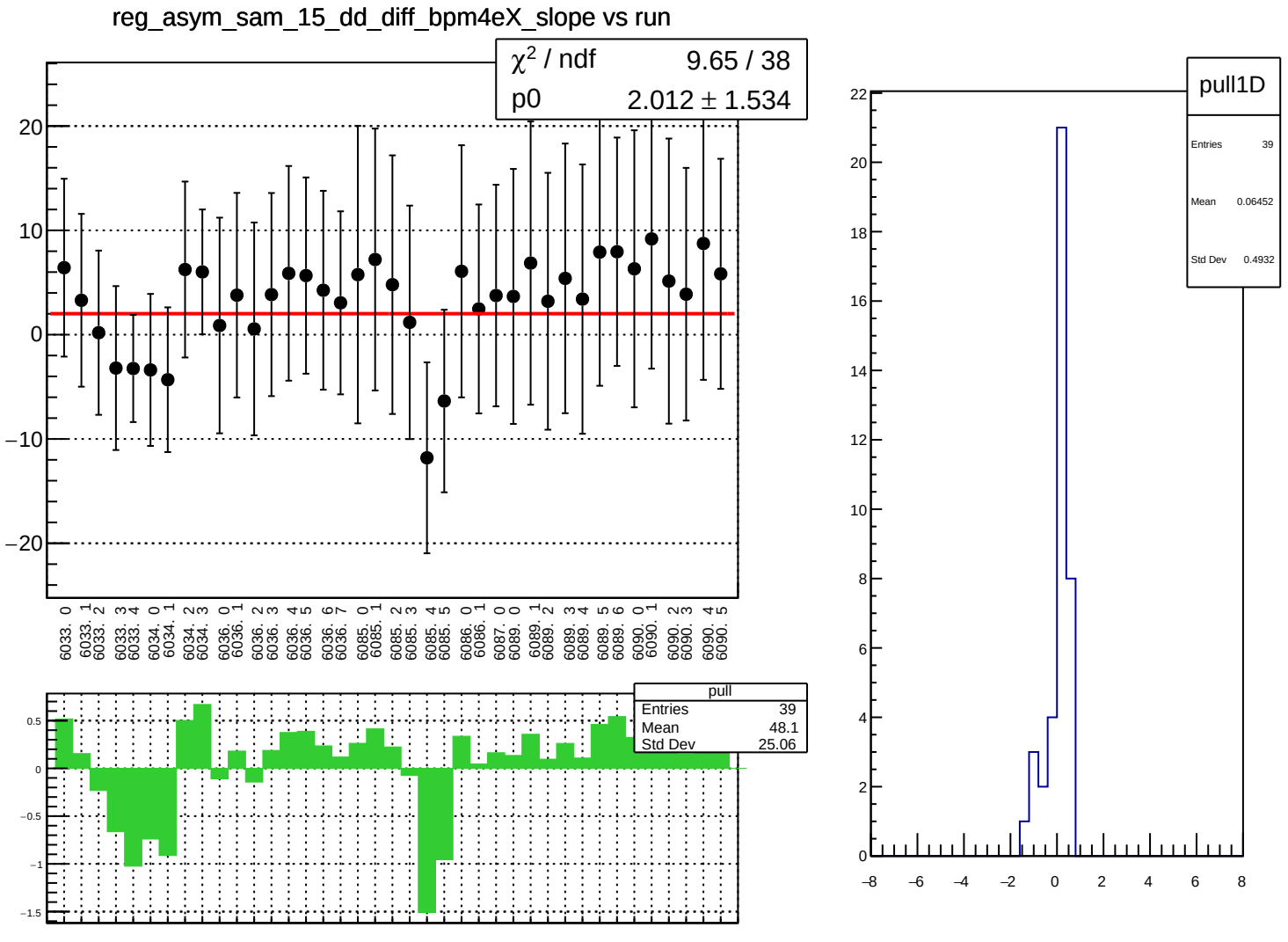

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.86 / 38
p0 57.73 ± 0.4852
pull
Entries 39
Mean 67.86
Std Dev 49.4
pull1D
Entries 39
Mean 0.07588
Std Dev 0.6725

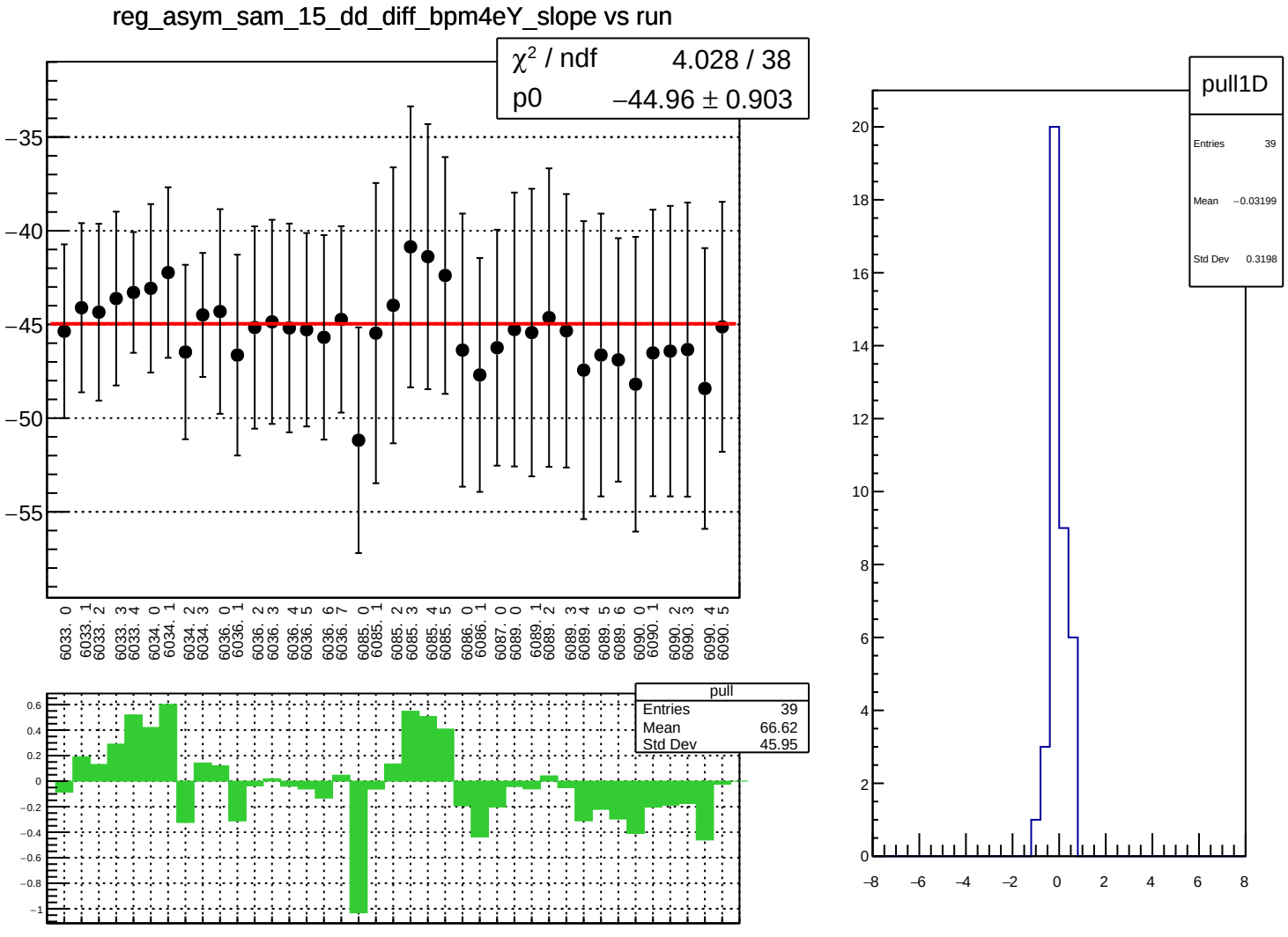

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 8.317 / 38
p0 −0.1085 ± 0.03807
pull
Entries 39
Mean 514.1
Std Dev 486.2
pull1D
Entries 39
Mean 0.001568
Std Dev 0.4618

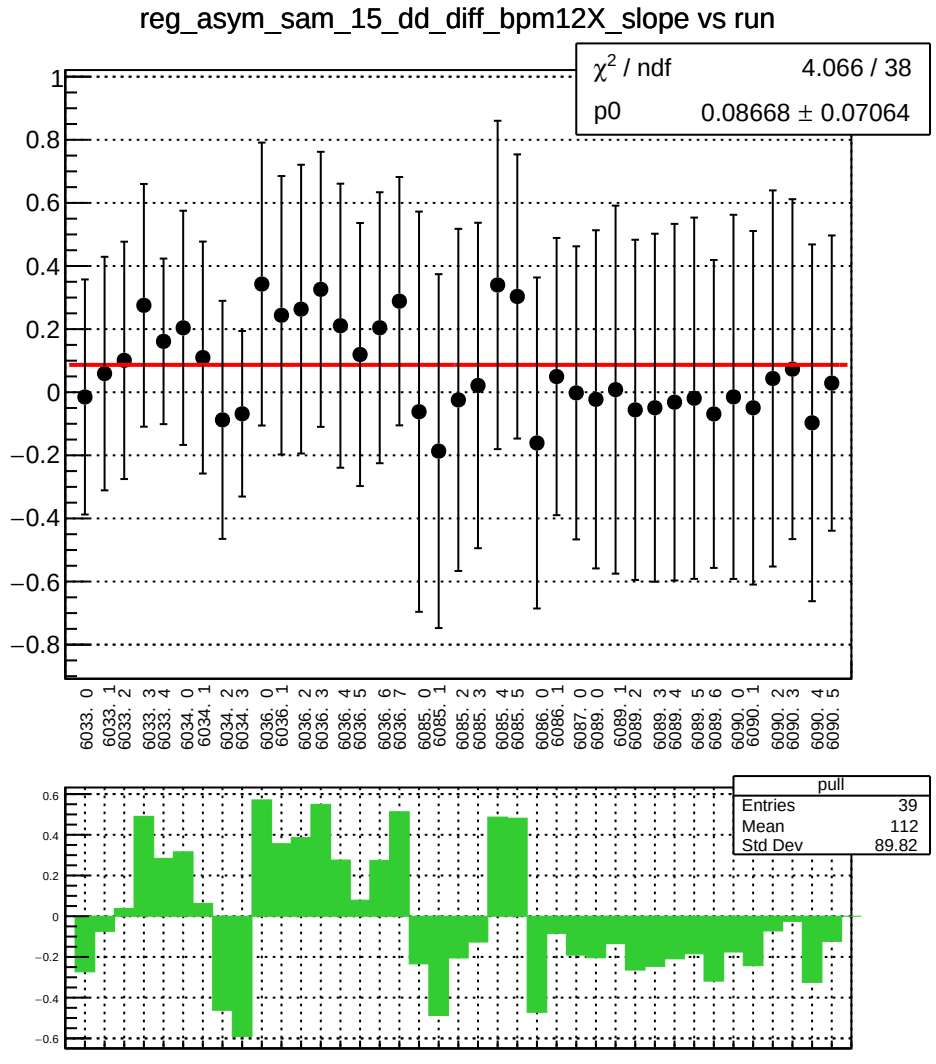

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.185 / 38
p0 −6.346 ± 1.393
pull
Entries 39
Mean 45.23
Std Dev 20.49

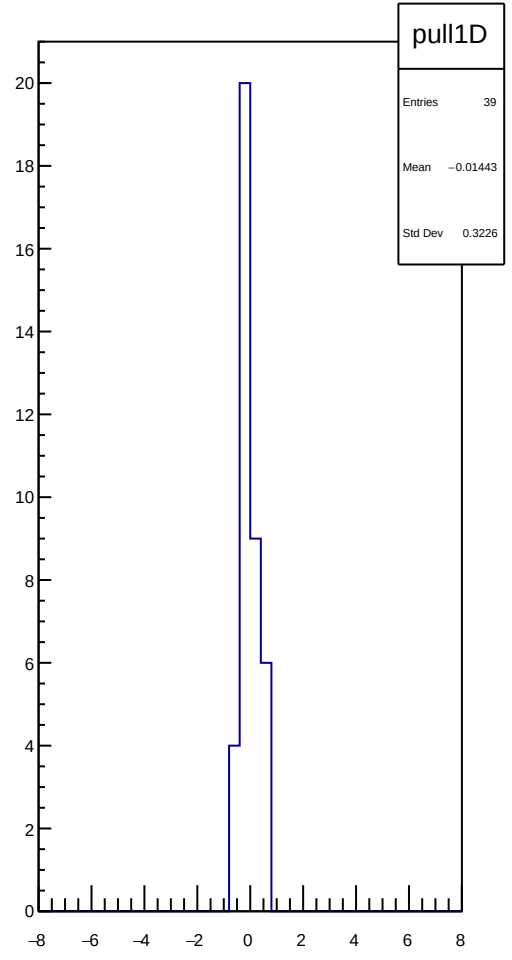

pull1D
Entries 39
Mean −0.0514
Std Dev 0.4826

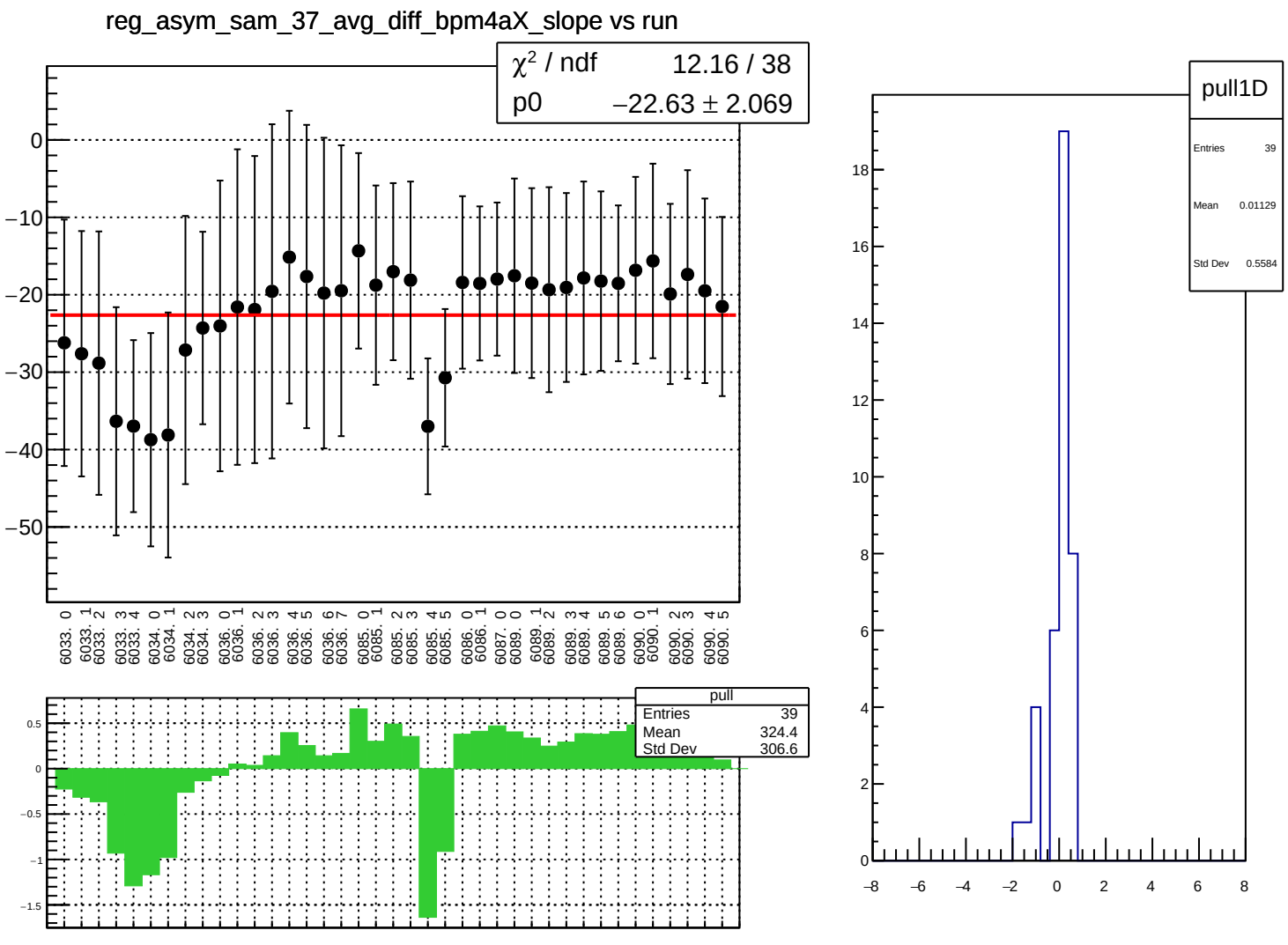

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.571 / 38
p0 −52.95 ± 0.8343
−45
−50
−55
−60
−65
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −44.82
Std Dev 70.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.001346
Std Dev 0.3026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

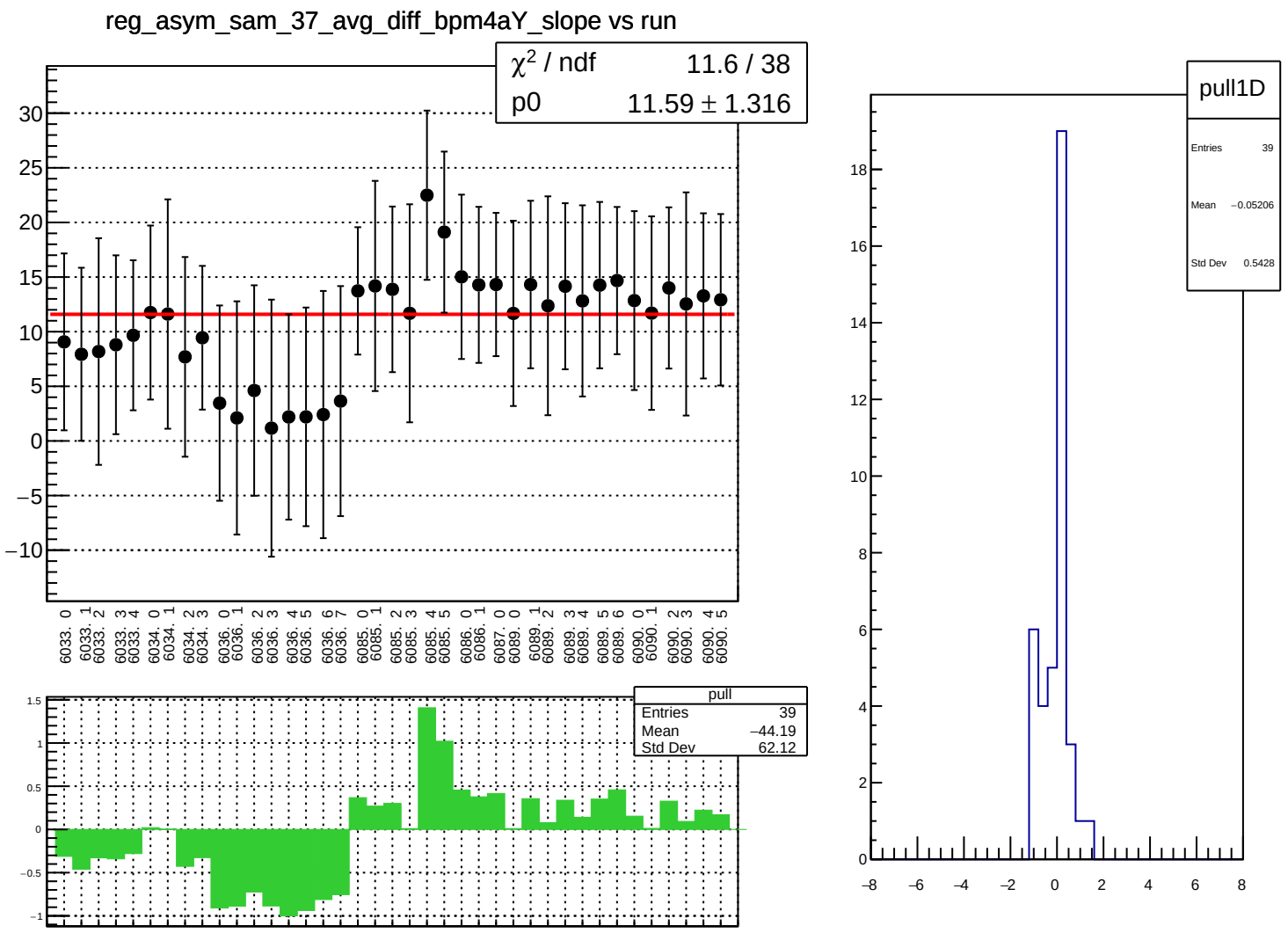

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.65 / 38
p0 2.012 ± 1.534
20
10
0
−10
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 48.1
Std Dev 25.06
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.06452
Std Dev 0.4932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

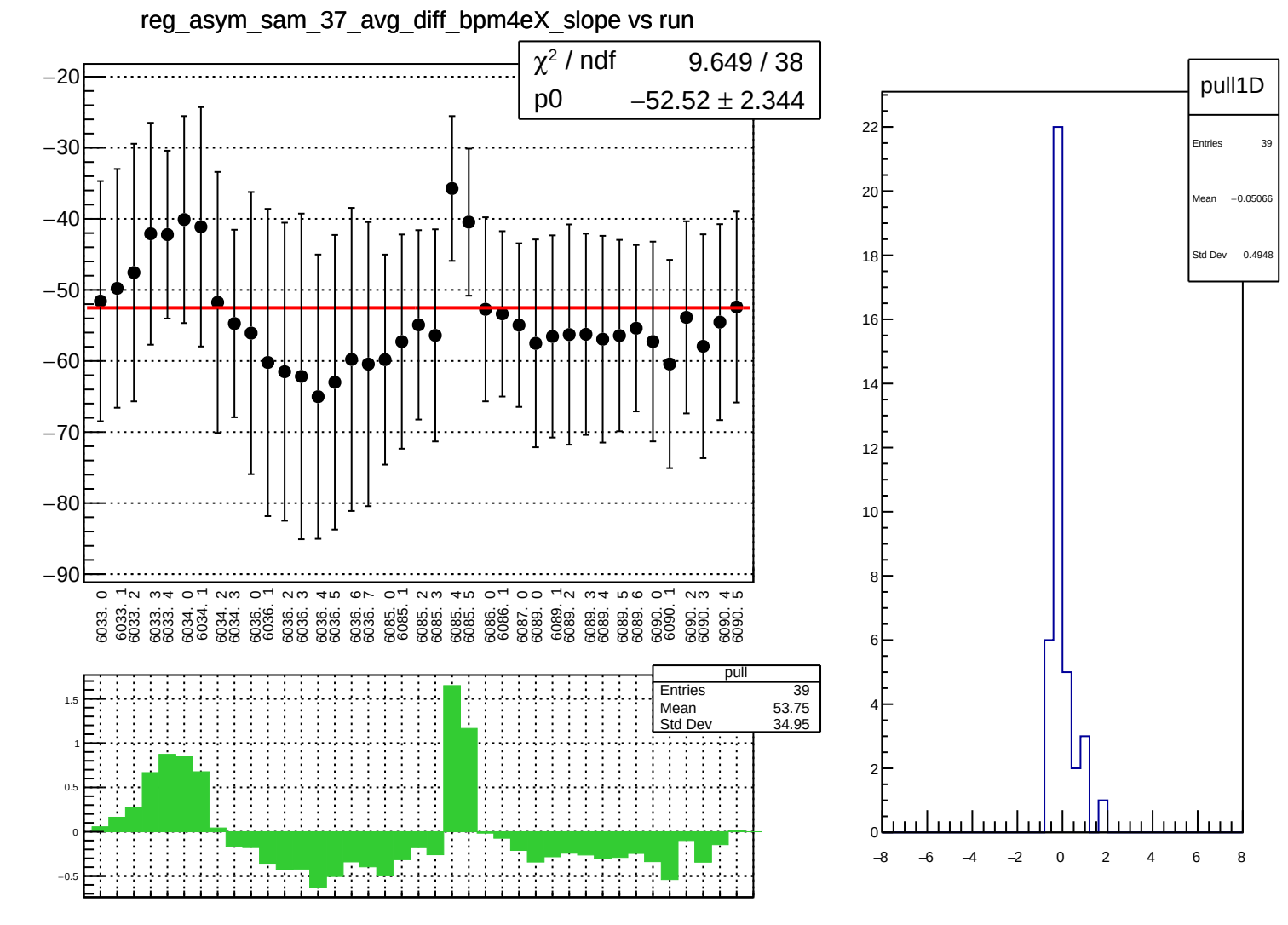

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.028 / 38
p0 −44.96 ± 0.903
−35
−40
−45
−50
−55
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 66.62
Std Dev 45.95
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean −0.03199
Std Dev 0.3198
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

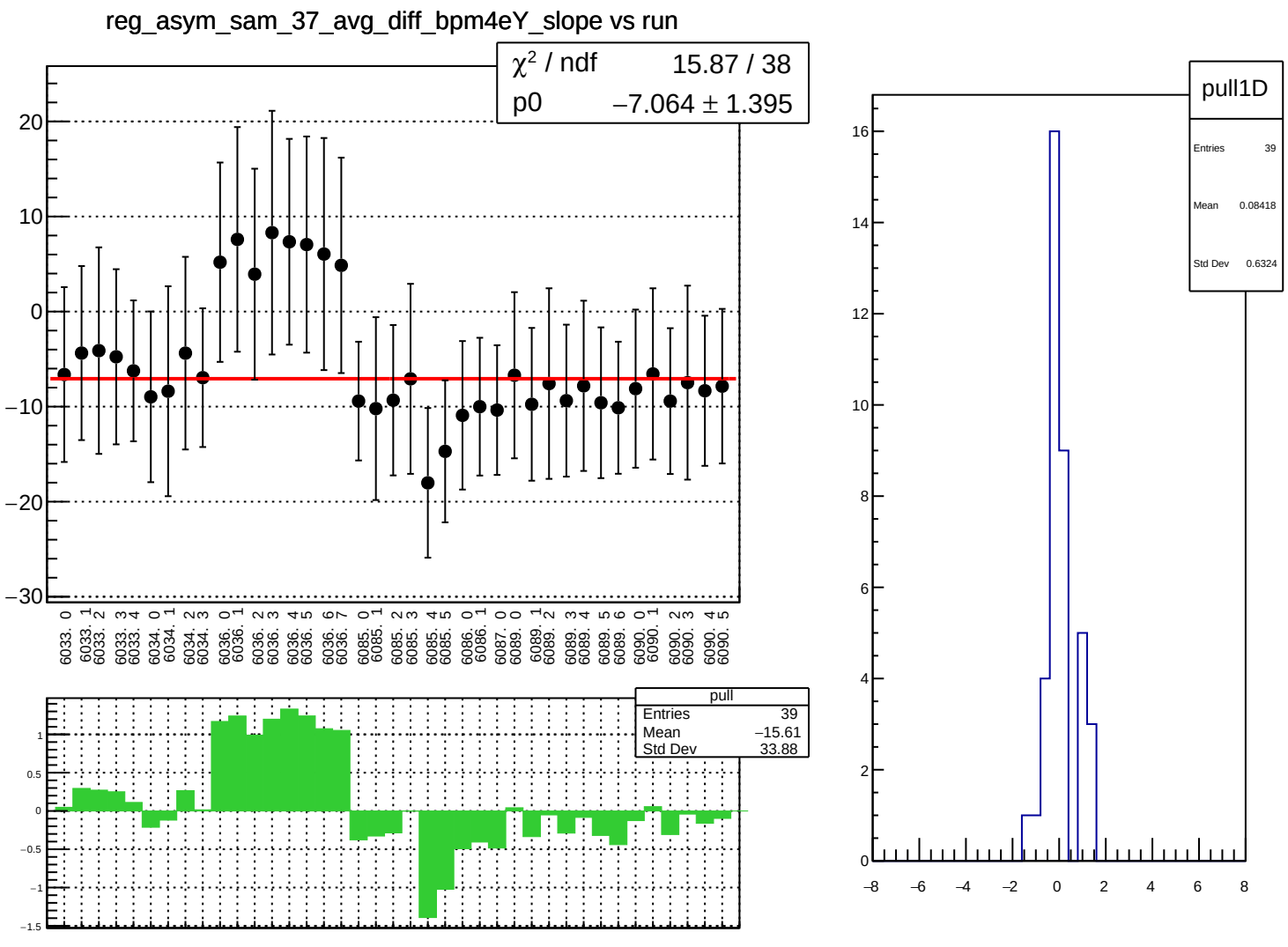

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.066 / 38
p0 0.08668 ± 0.07064
pull
Entries 39
Mean 112
Std Dev 89.82

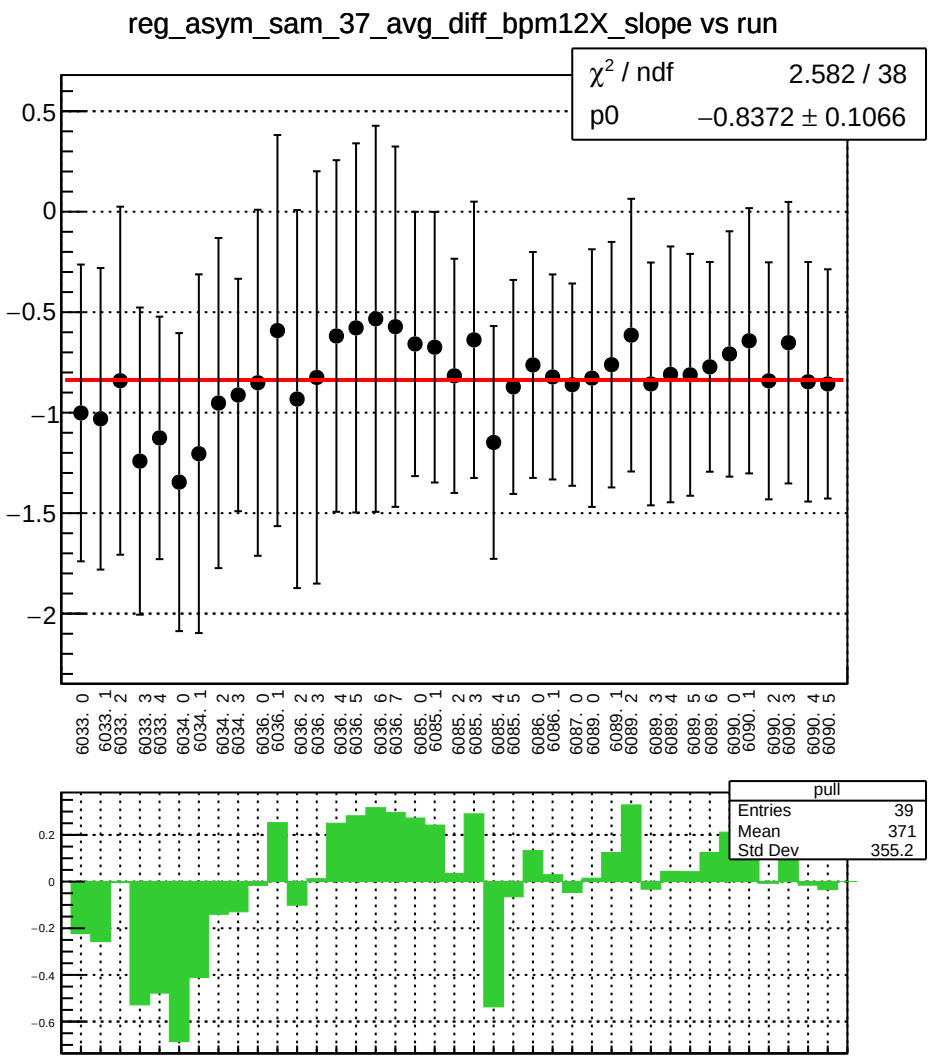

pull1D
Entries 39
Mean −0.01443
Std Dev 0.3226

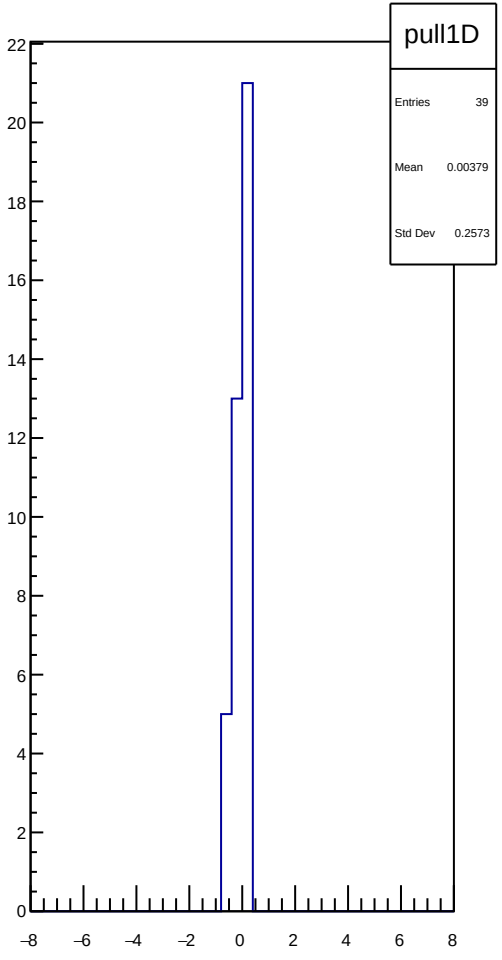

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.16 / 38
p0 −22.63 ± 2.069
pull
Entries 39
Mean 324.4
Std Dev 306.6
pull1D
Entries 39
Mean 0.01129
Std Dev 0.5584

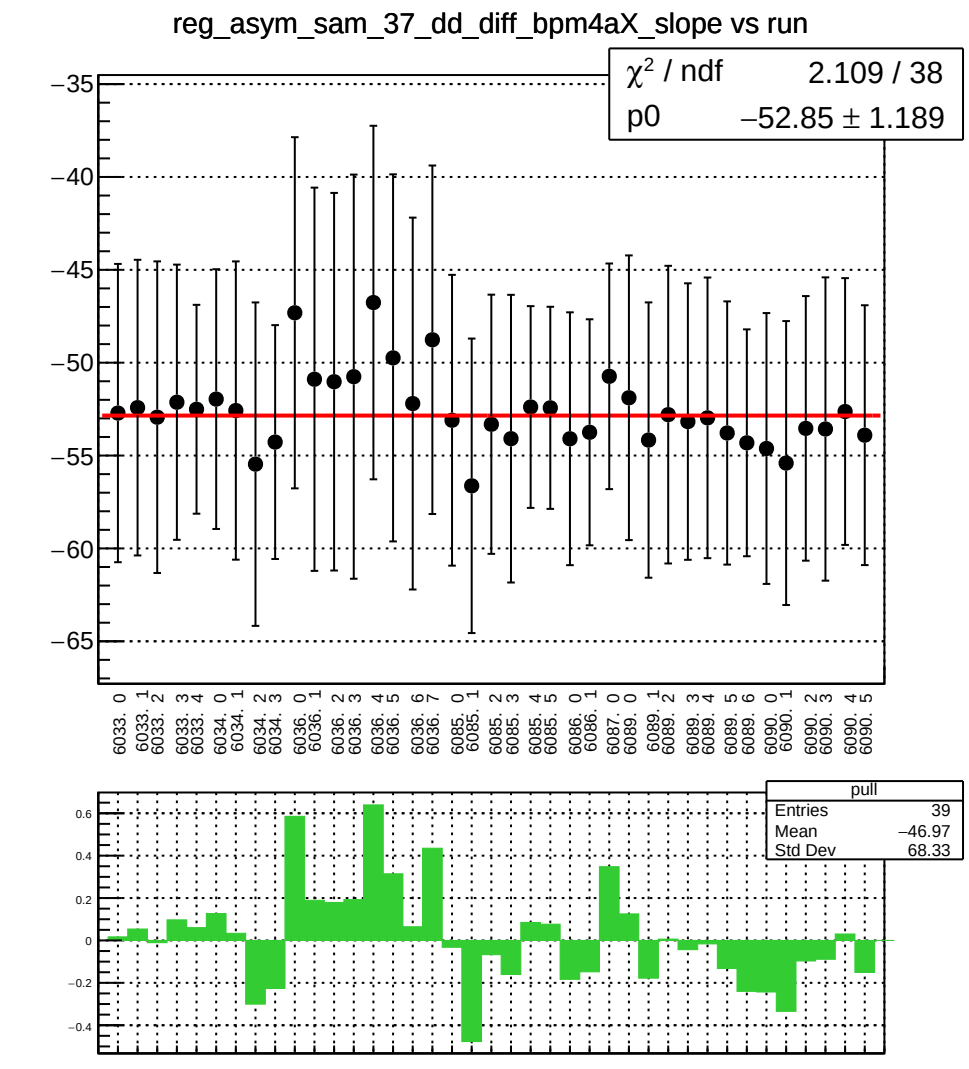

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.6 / 38
p0 11.59 ± 1.316
pull
Entries 39
Mean −44.19
Std Dev 62.12
pull1D
Entries 39
Mean −0.05206
Std Dev 0.5428

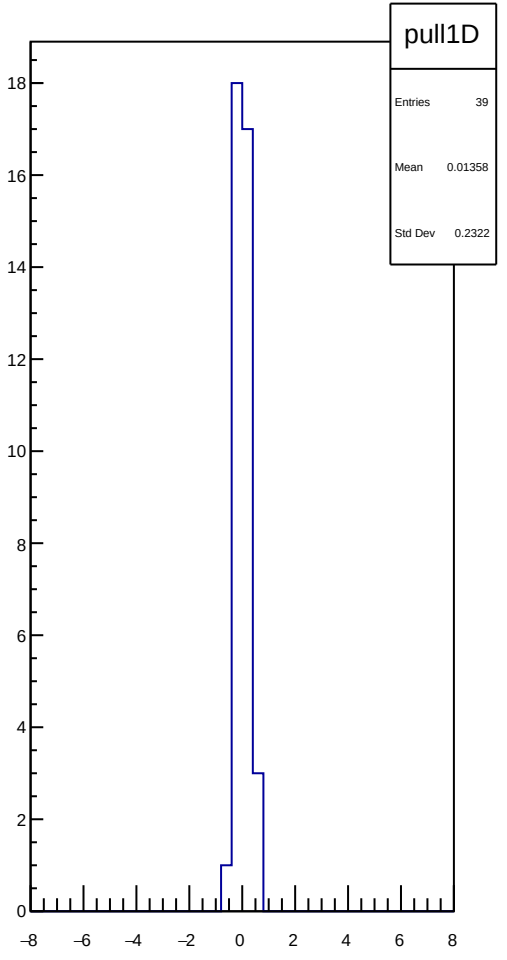

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.649 / 38
p0 −52.52 ± 2.344
pull
Entries 39
Mean 53.75
Std Dev 34.95
pull1D
Entries 39
Mean −0.05066
Std Dev 0.4948

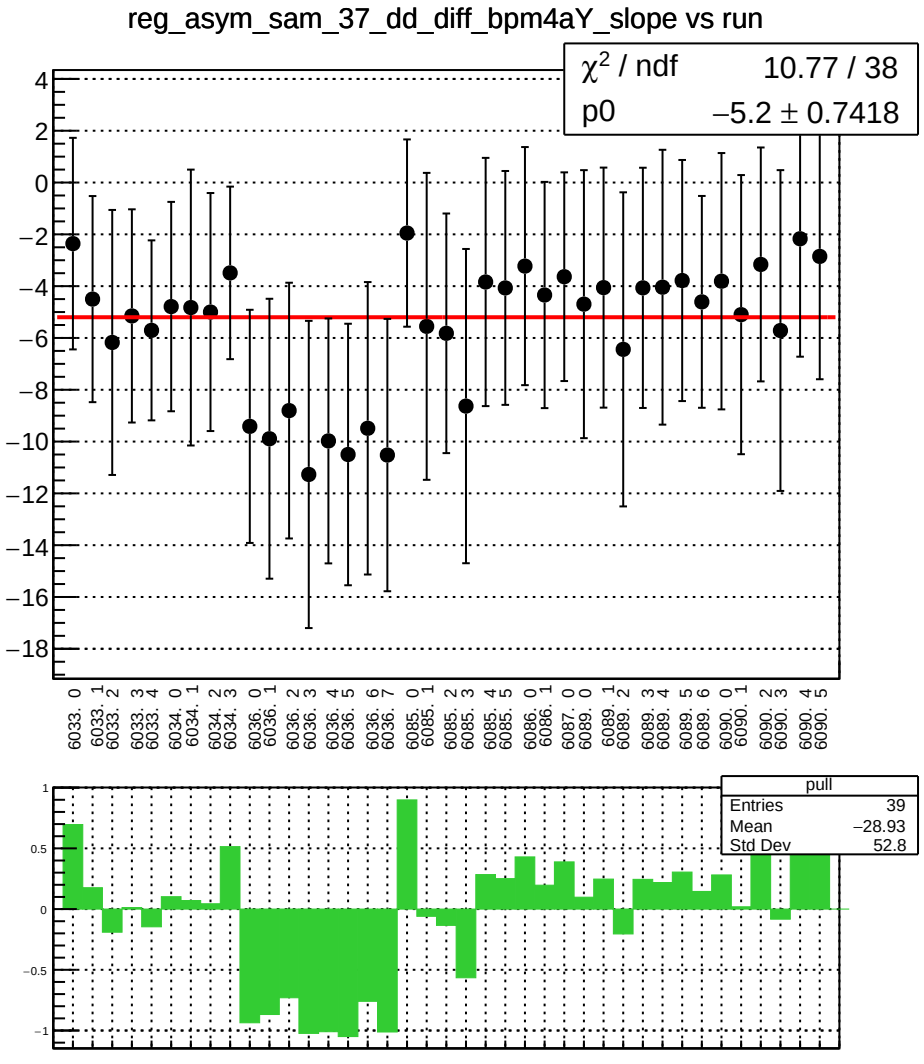

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.87 / 38
p0 −7.064 ± 1.395
pull
Entries 39
Mean −15.61
Std Dev 33.88
pull1D
Entries 39
Mean 0.08418
Std Dev 0.6324

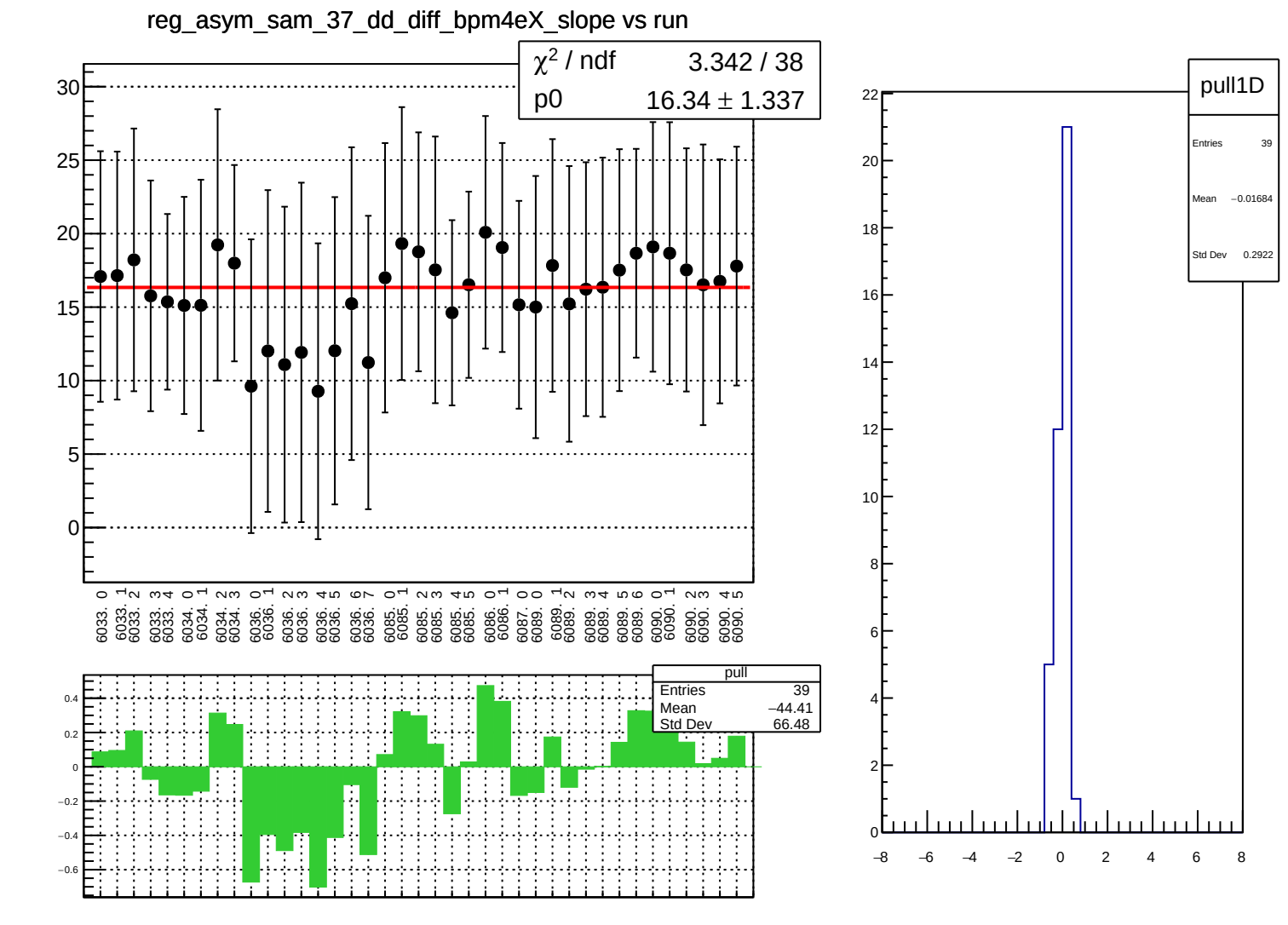

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.582 / 38
p0 −0.8372 ± 0.1066
pull
Entries 39
Mean 371
Std Dev 355.2

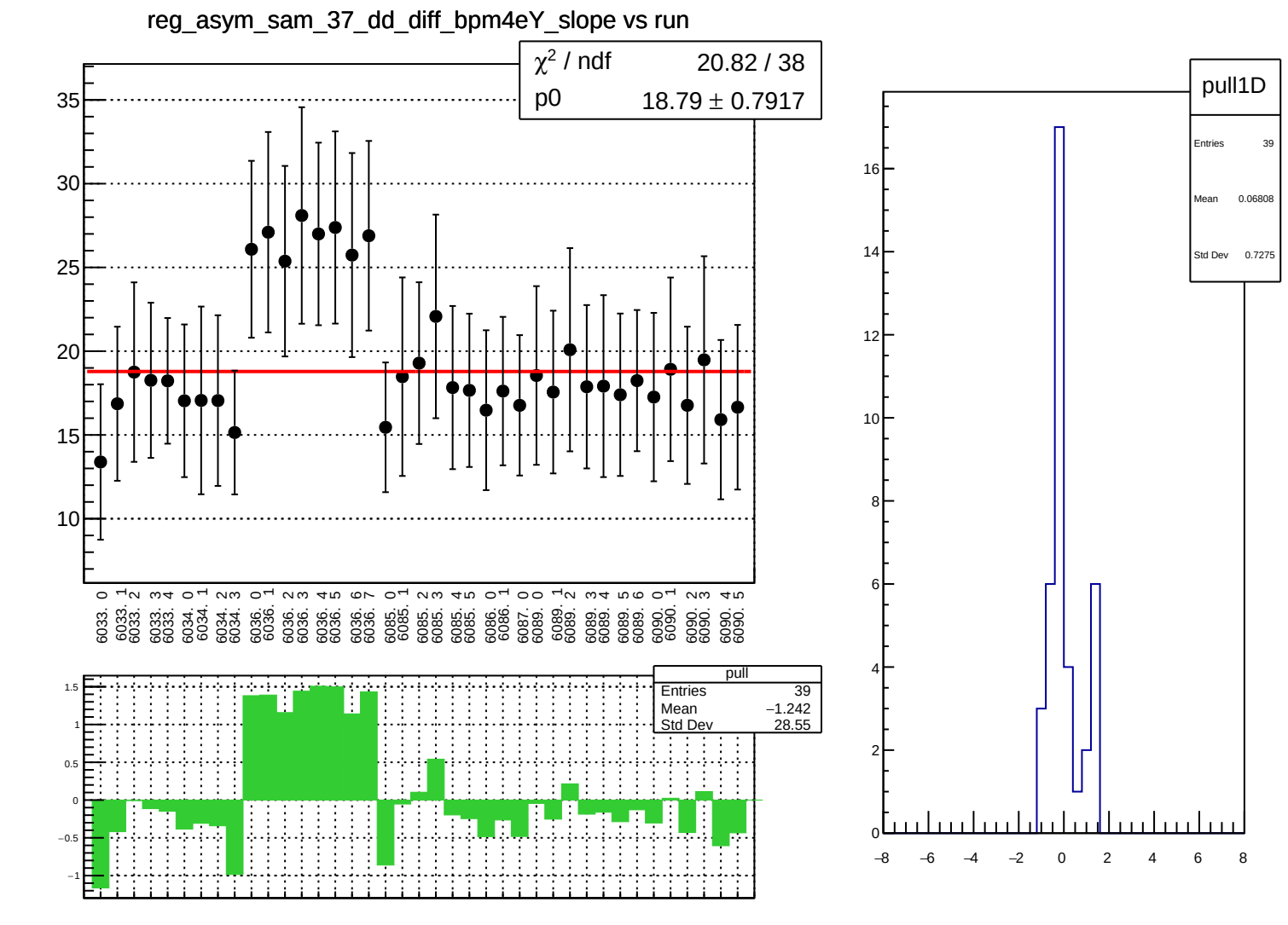

pull1D
Entries 39
Mean 0.00379
Std Dev 0.2573

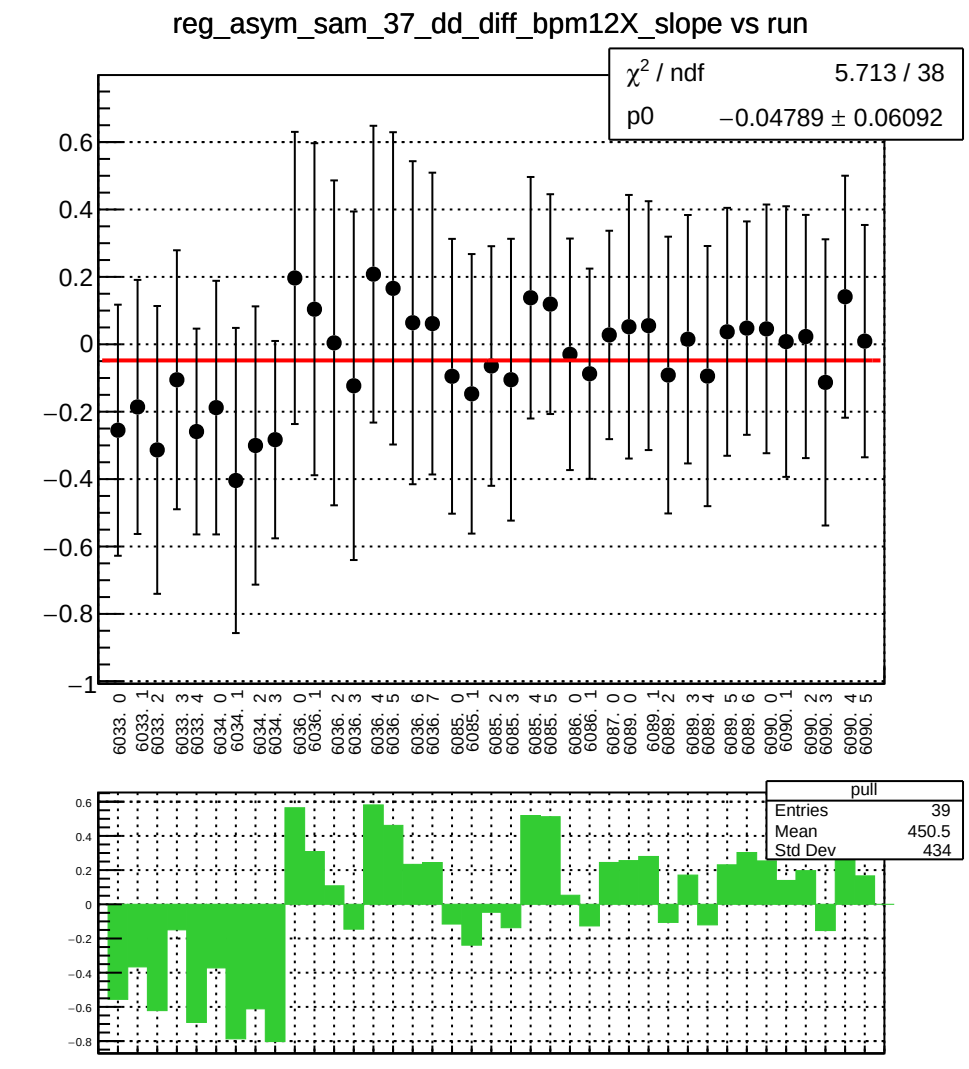

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.109 / 38
p0 −52.85 ± 1.189
−35
−40
−45
−50
−55
−60
−65
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −46.97
Std Dev 68.33
0.6
0.4
0.2
0
−0.2
−0.4

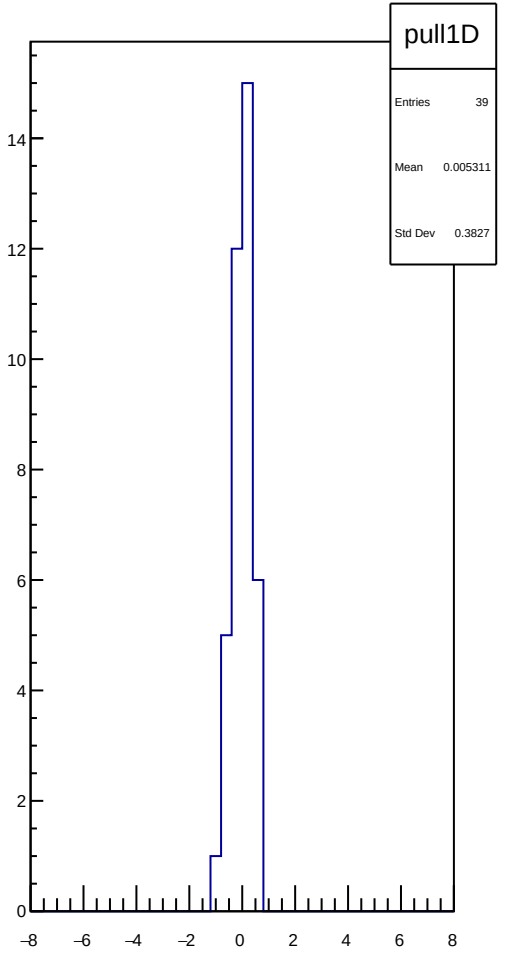

pull1D
Entries 39
Mean 0.01358
Std Dev 0.2322
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

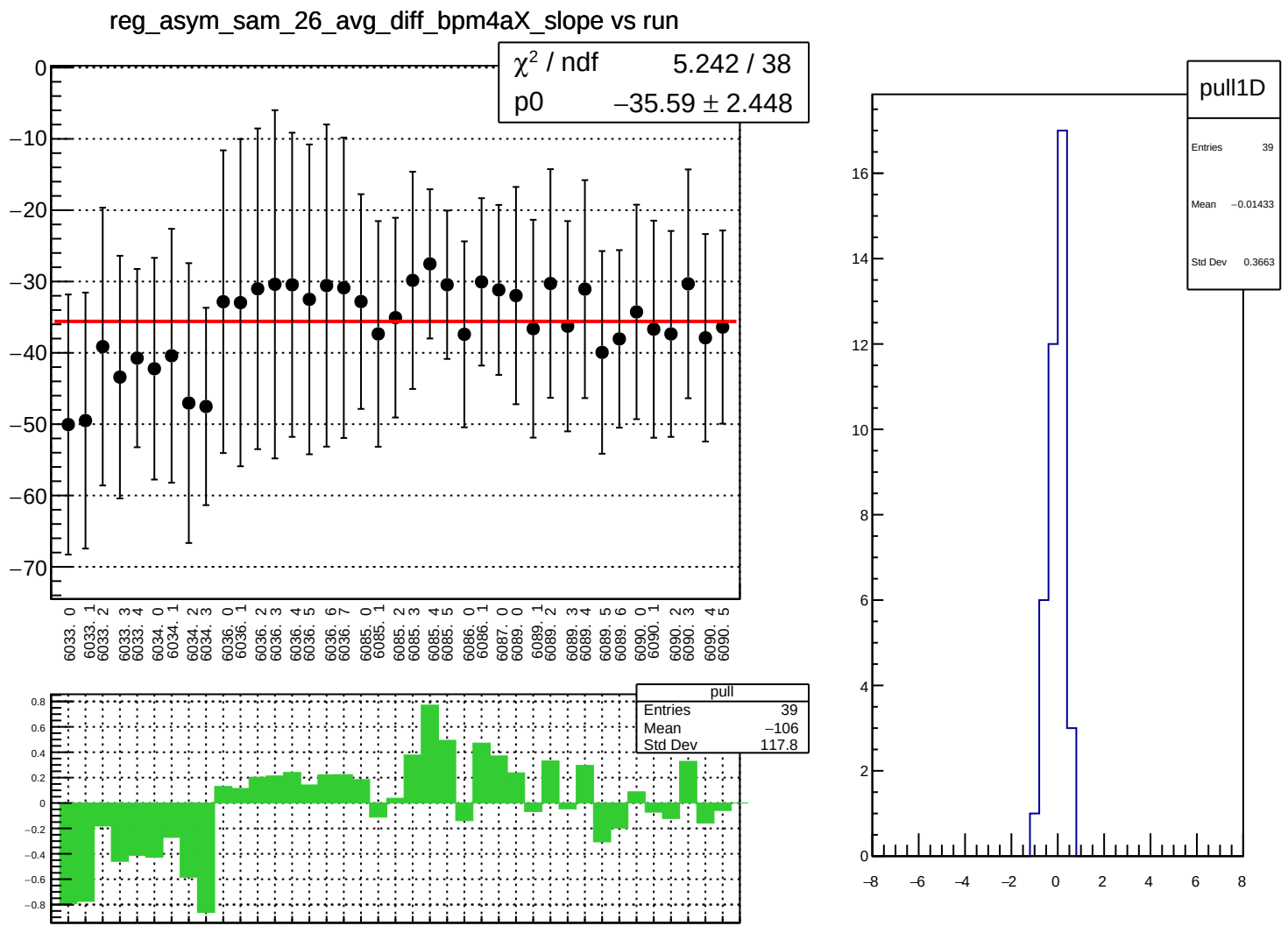

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 38
p0 −5.2 ± 0.7418
4
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −28.93
Std Dev 52.8
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.03947
Std Dev 0.5239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

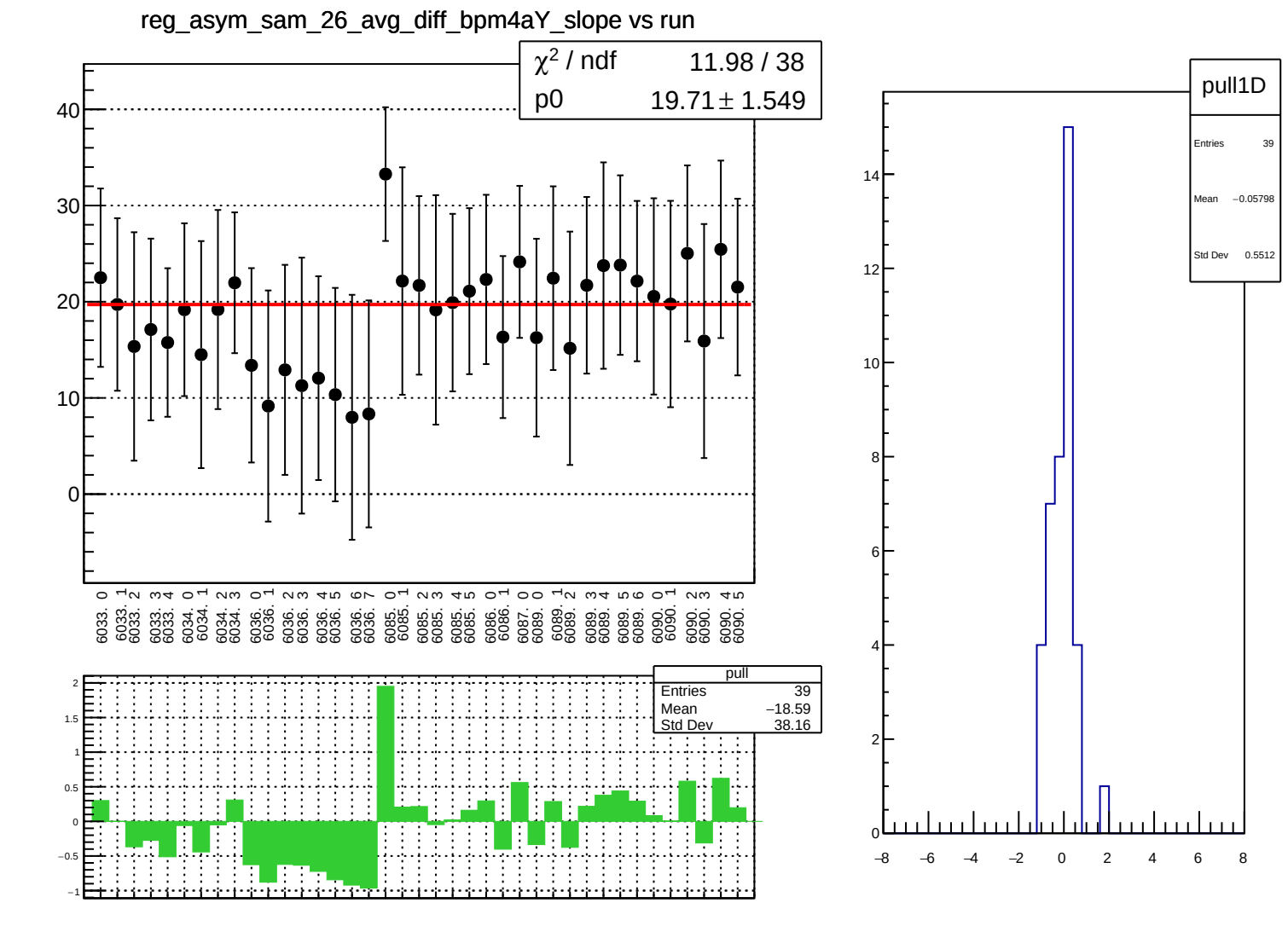

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.342 / 38
p0 16.34 ± 1.337
pull
Entries 39
Mean −44.41
Std Dev 66.48
pull1D
Entries 39
Mean −0.01684
Std Dev 0.2922

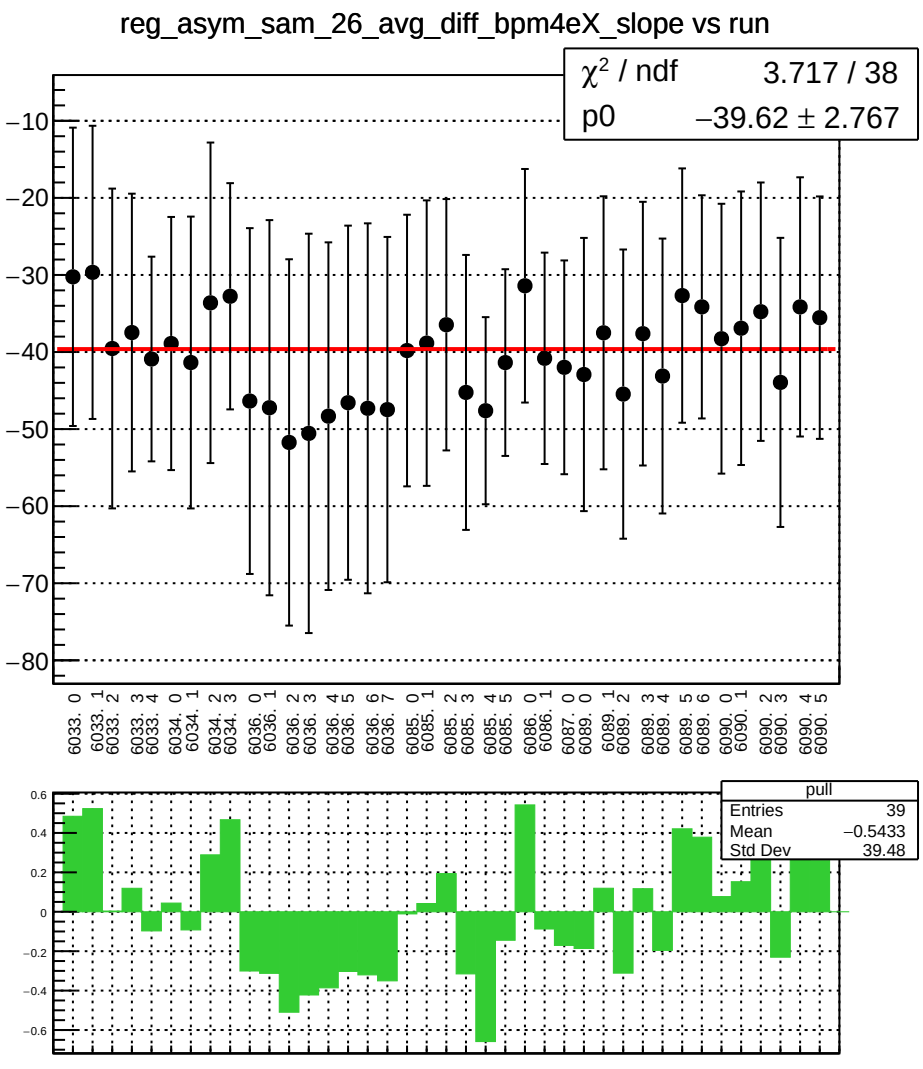

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.82 / 38
p0 18.79 ± 0.7917
pull
Entries 39
Mean −1.242
Std Dev 28.55
pull1D
Entries 39
Mean 0.06808
Std Dev 0.7275

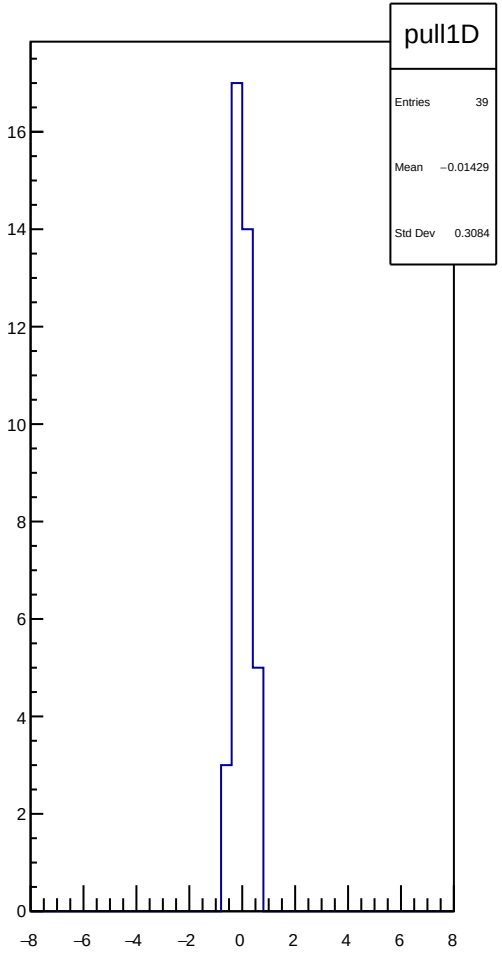

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.713 / 38
p0 −0.04789 ± 0.06092
pull
Entries 39
Mean 450.5
Std Dev 434

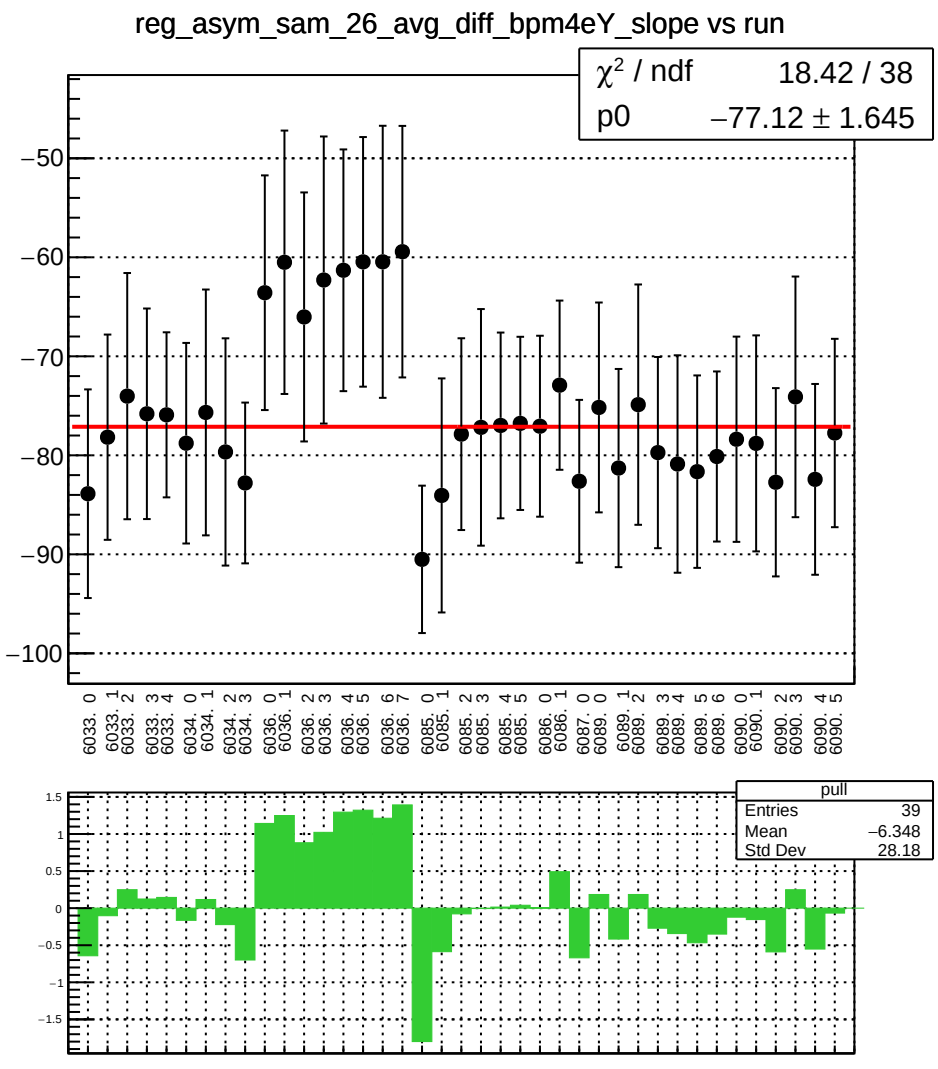

pull1D
Entries 39
Mean 0.005311
Std Dev 0.3827

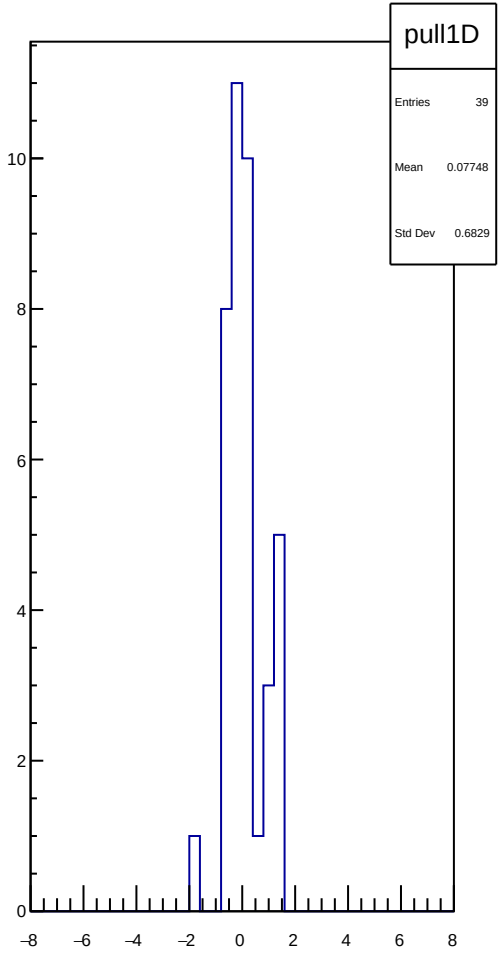

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.242 / 38
p0 −35.59 ± 2.448
pull
Entries 39
Mean −106
Std Dev 117.8
pull1D
Entries 39
Mean −0.01433
Std Dev 0.3663

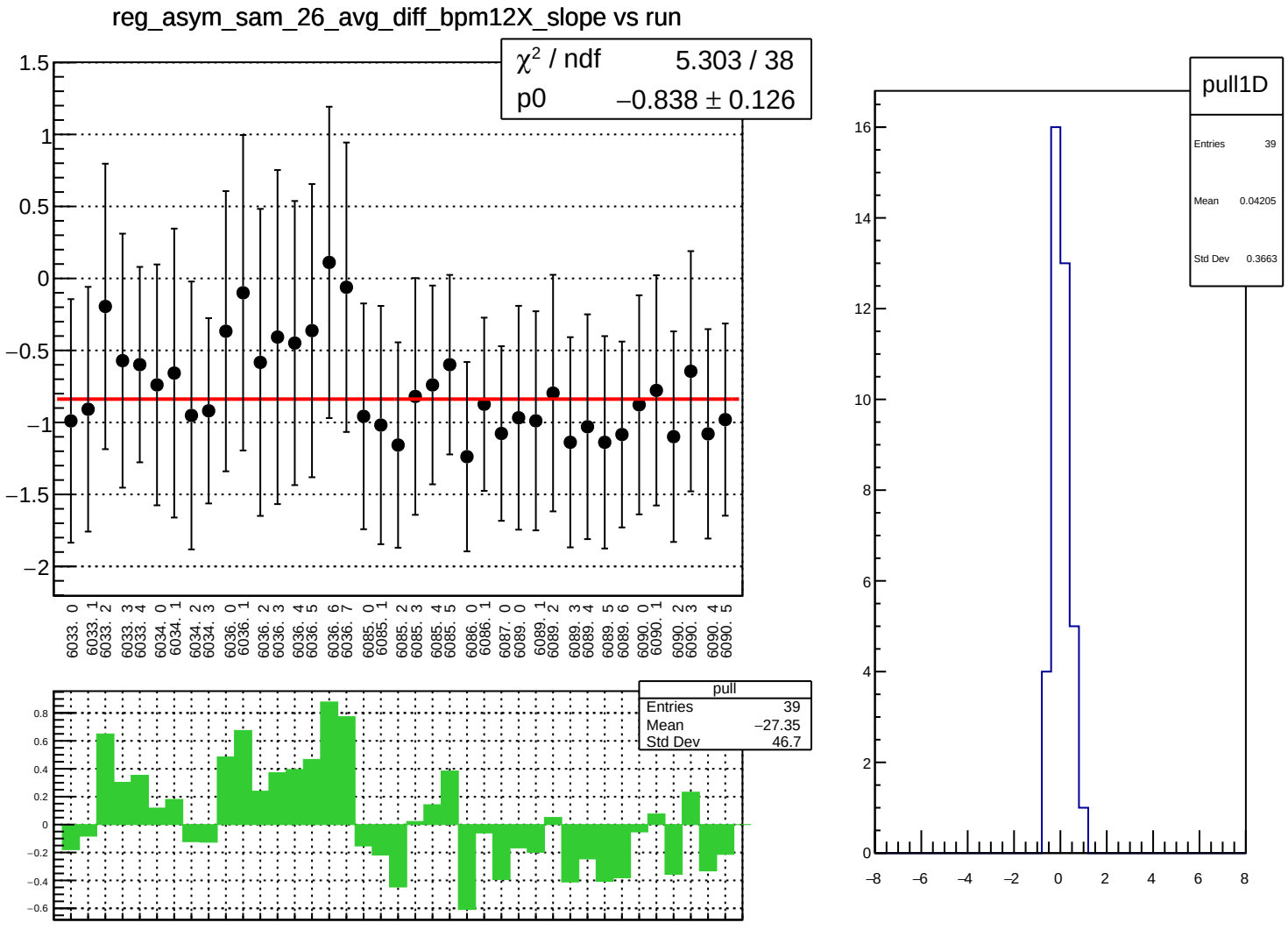

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.98 / 38
p0 19.71 ± 1.549
pull
Entries 39
Mean −18.59
Std Dev 38.16
pull1D
Entries 39
Mean −0.05798
Std Dev 0.5512

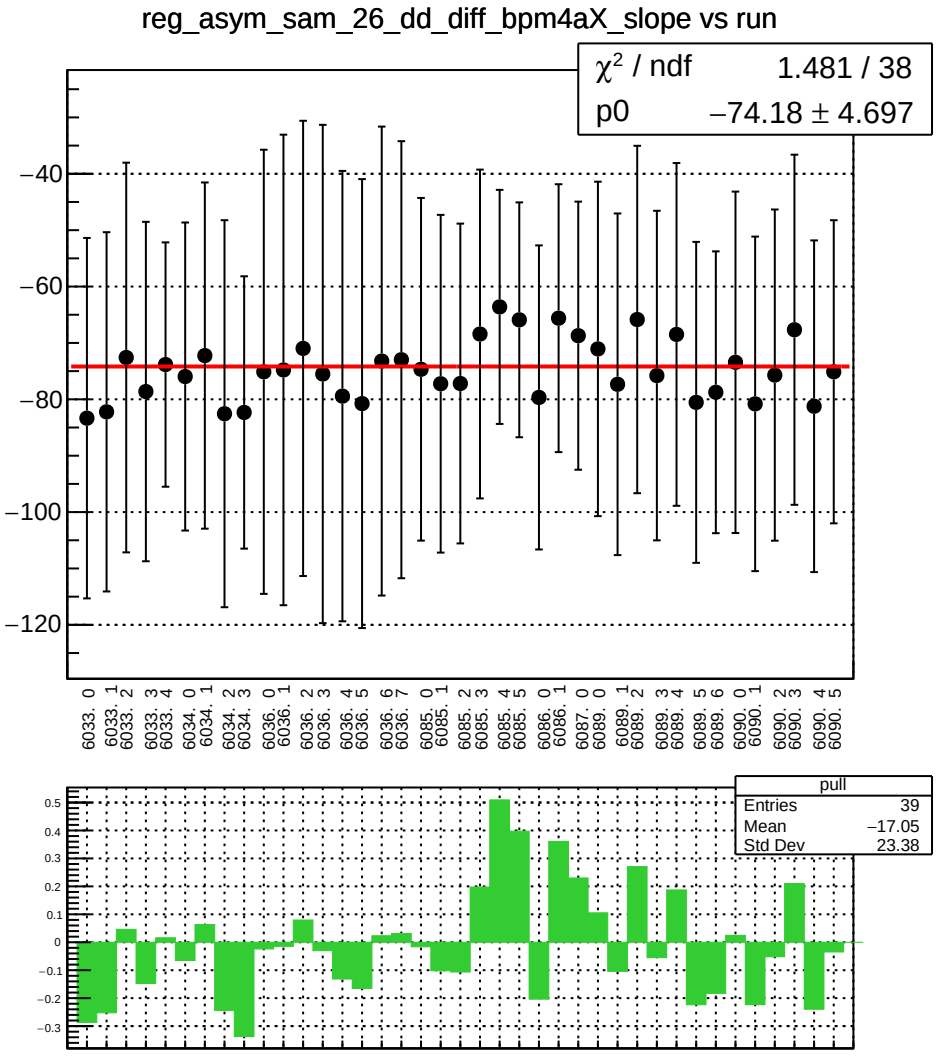

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.717 / 38
p0 −39.62 ± 2.767
pull
Entries 39
Mean −0.5433
Std Dev 39.48

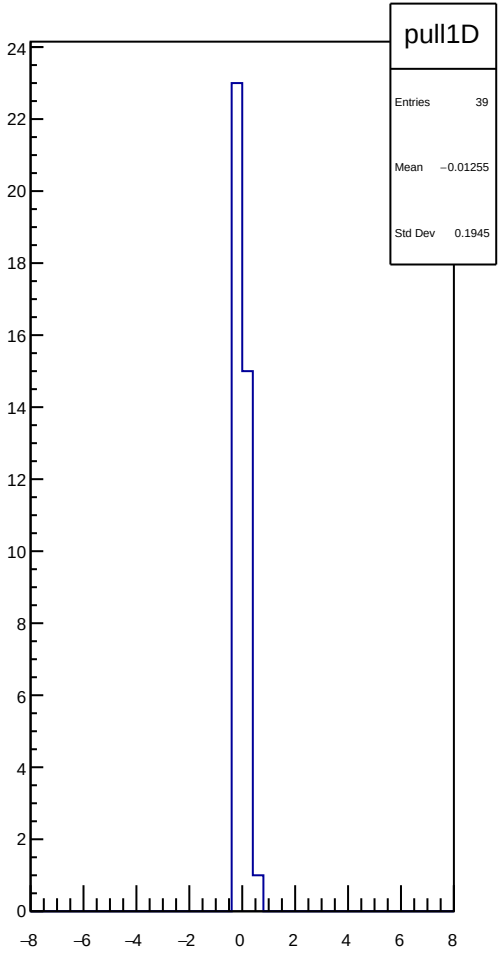

pull1D
Entries 39
Mean −0.01429
Std Dev 0.3084

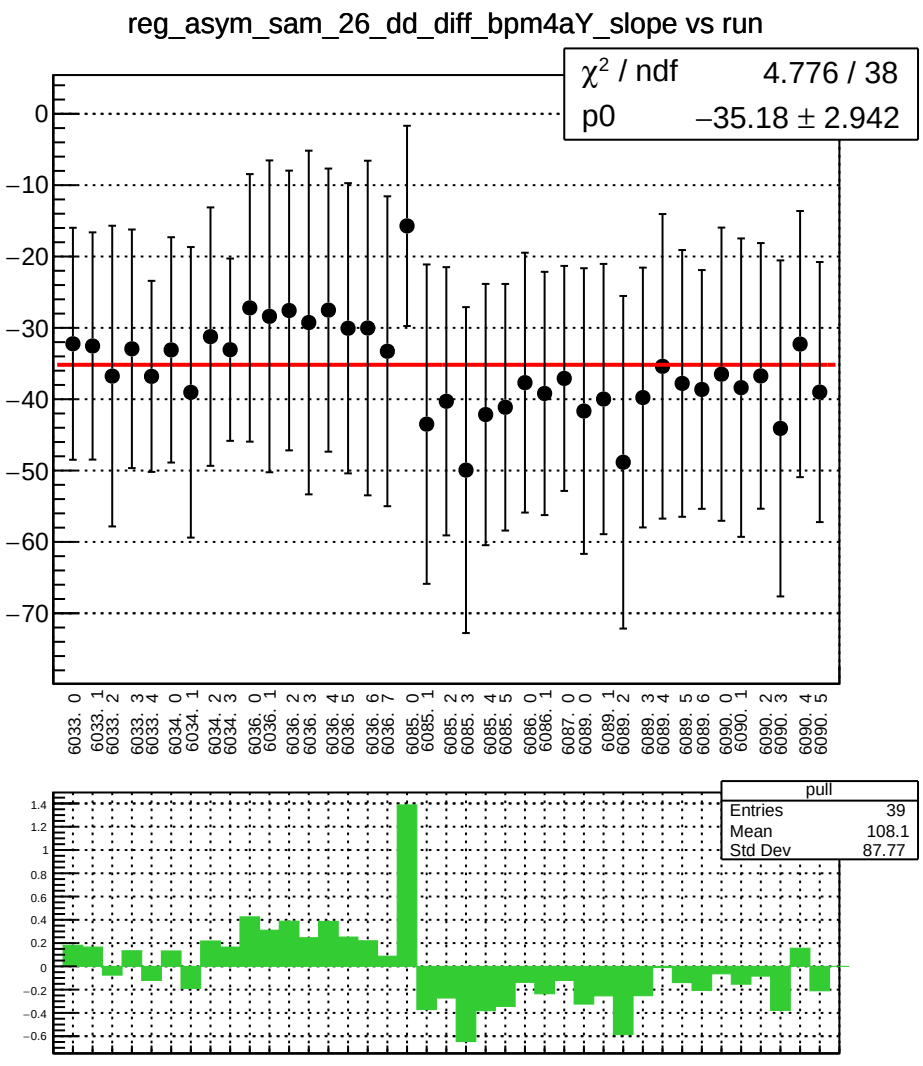

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.42 / 38
p0 −77.12 ± 1.645
−50
−60
−70
−80
−90
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −6.348
Std Dev 28.18
1.5
1
0.5
0
−0.5
−1
−1.5

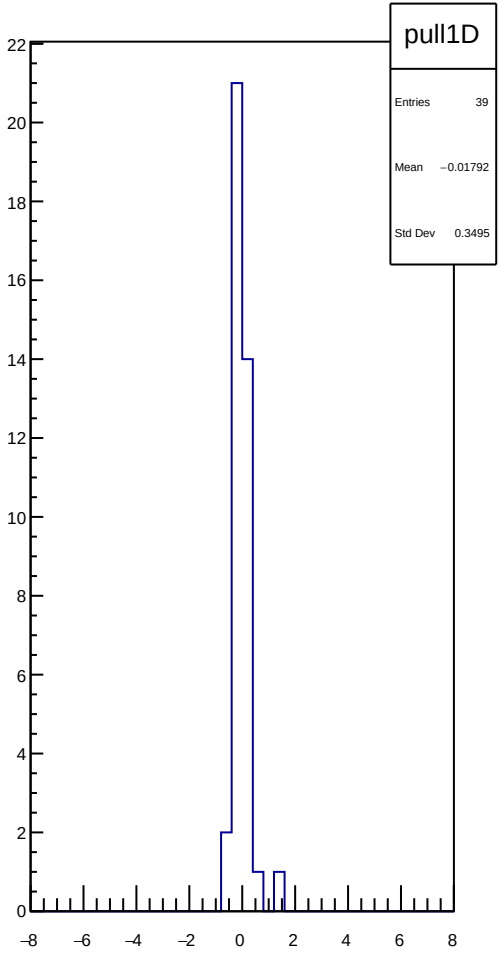

pull1D
Entries 39
Mean 0.07748
Std Dev 0.6829
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

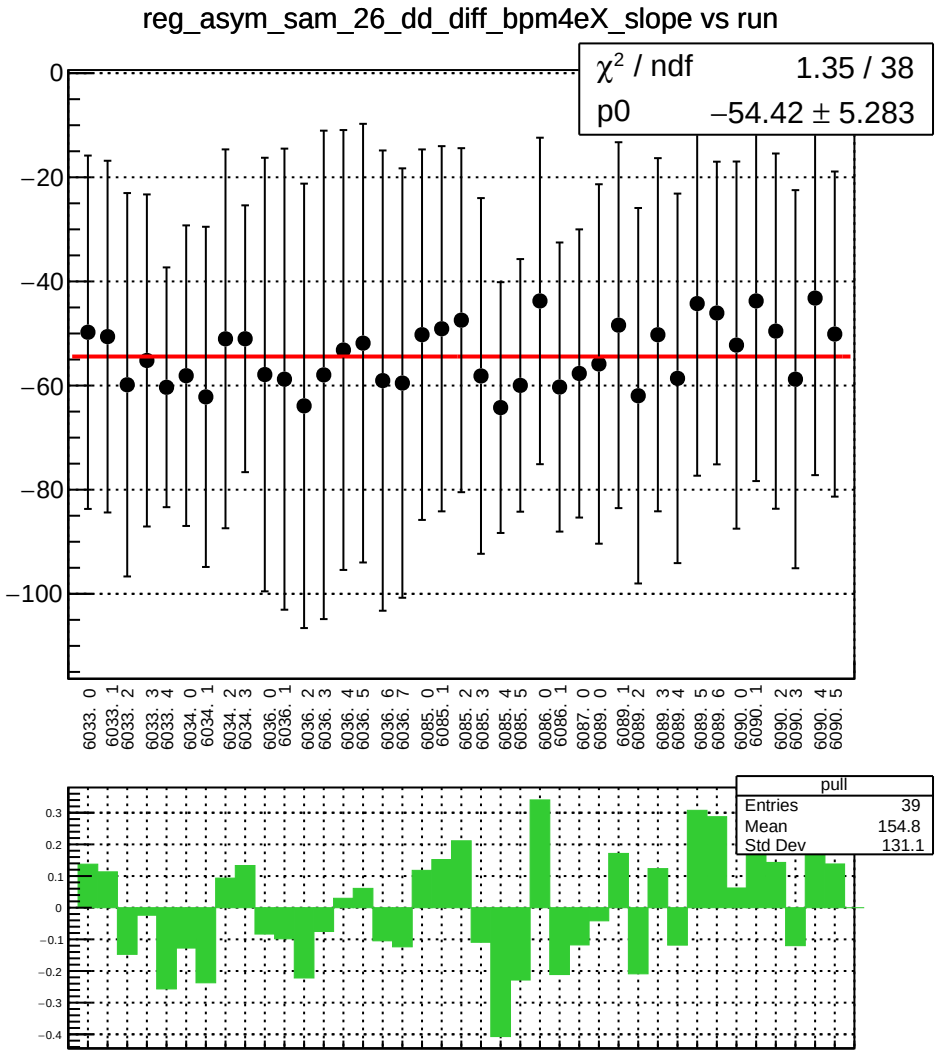

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 5.303 / 38
p0 −0.838 ± 0.126
pull
Entries 39
Mean −27.35
Std Dev 46.7
pull1D
Entries 39
Mean 0.04205
Std Dev 0.3663

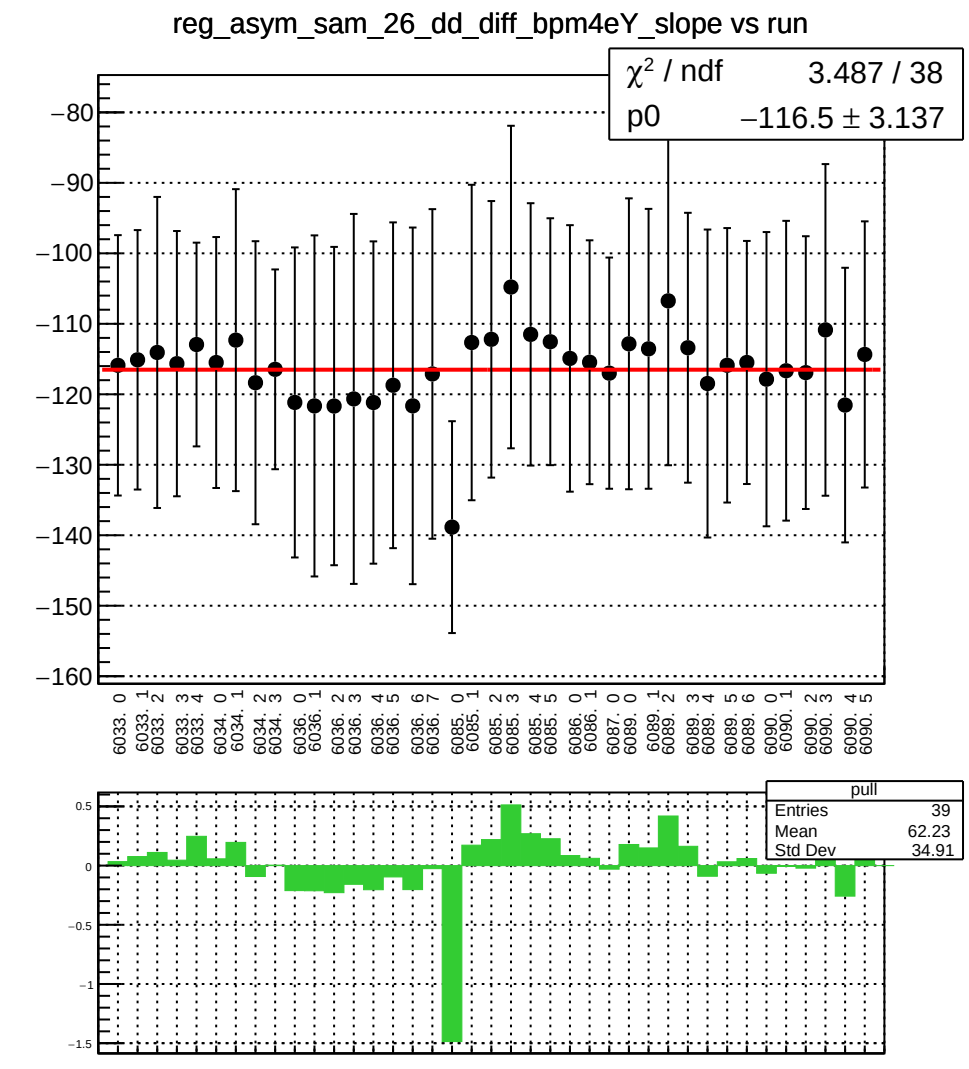

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.481 / 38
p0 −74.18 ± 4.697
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −17.05
Std Dev 23.38
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

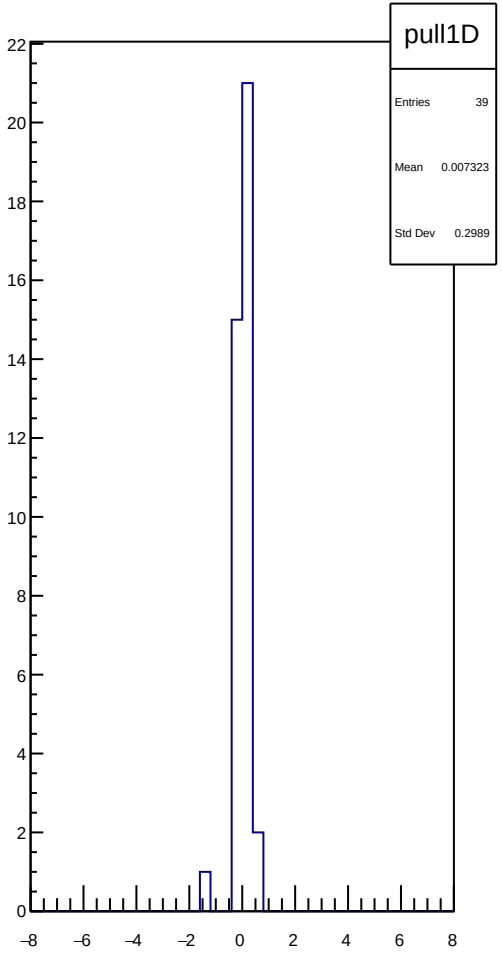

pull1D
Entries 39
Mean −0.01255
Std Dev 0.1945
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

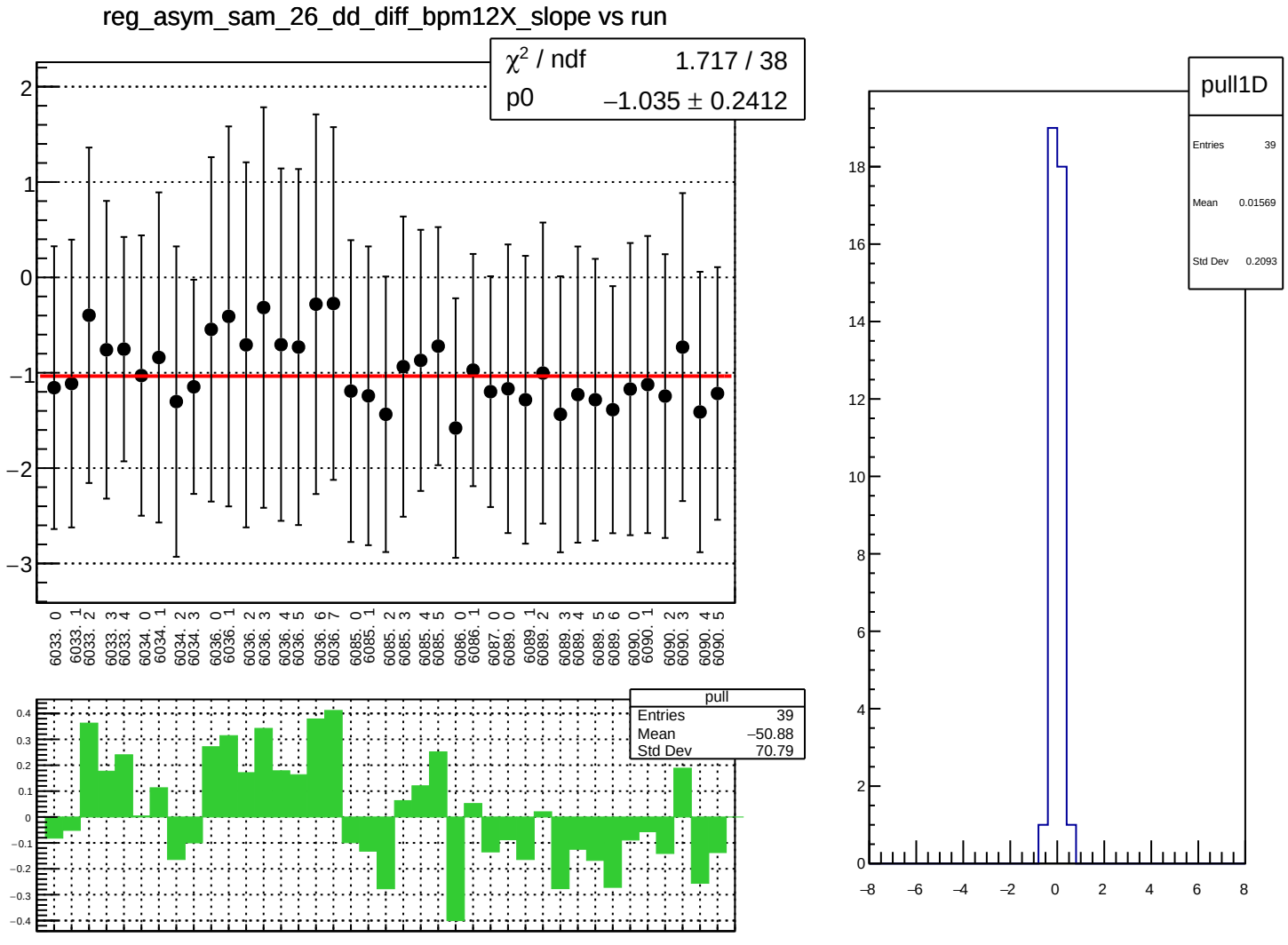

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.776 / 38
p0 −35.18 ± 2.942
0
−10
−20
−30
−40
−50
−60
−70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 108.1
Std Dev 87.77
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

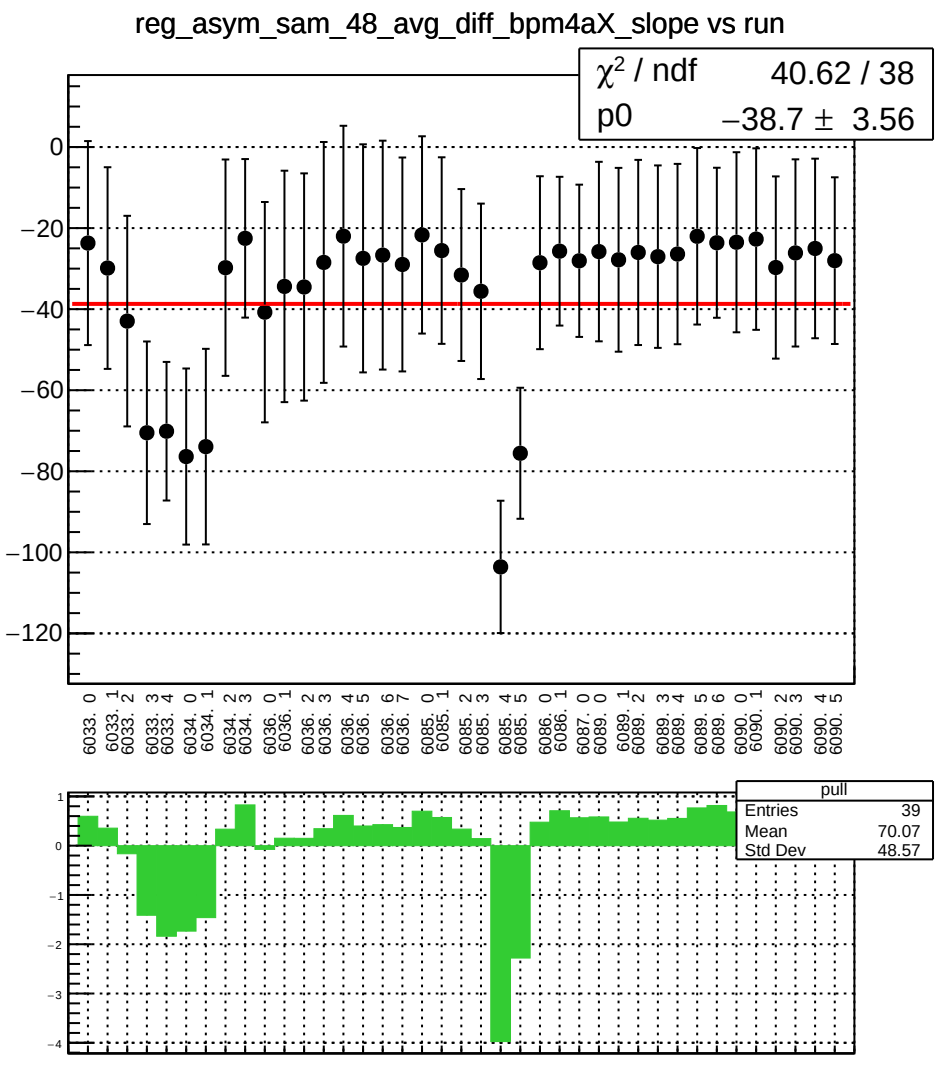

pull1D
Entries 39
Mean −0.01792
Std Dev 0.3495
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

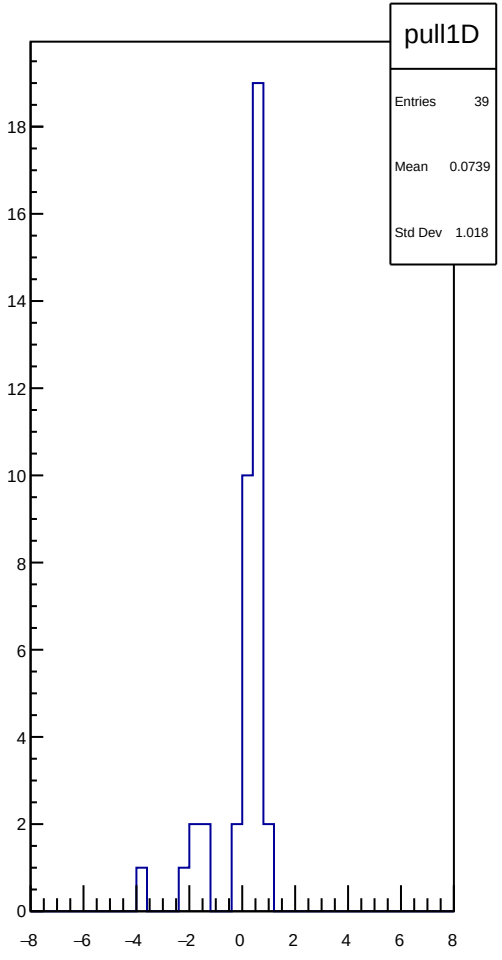

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.35 / 38
p0 −54.42 ± 5.283
0
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 154.8
Std Dev 131.1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 39
Mean 0.005148
Std Dev 0.186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

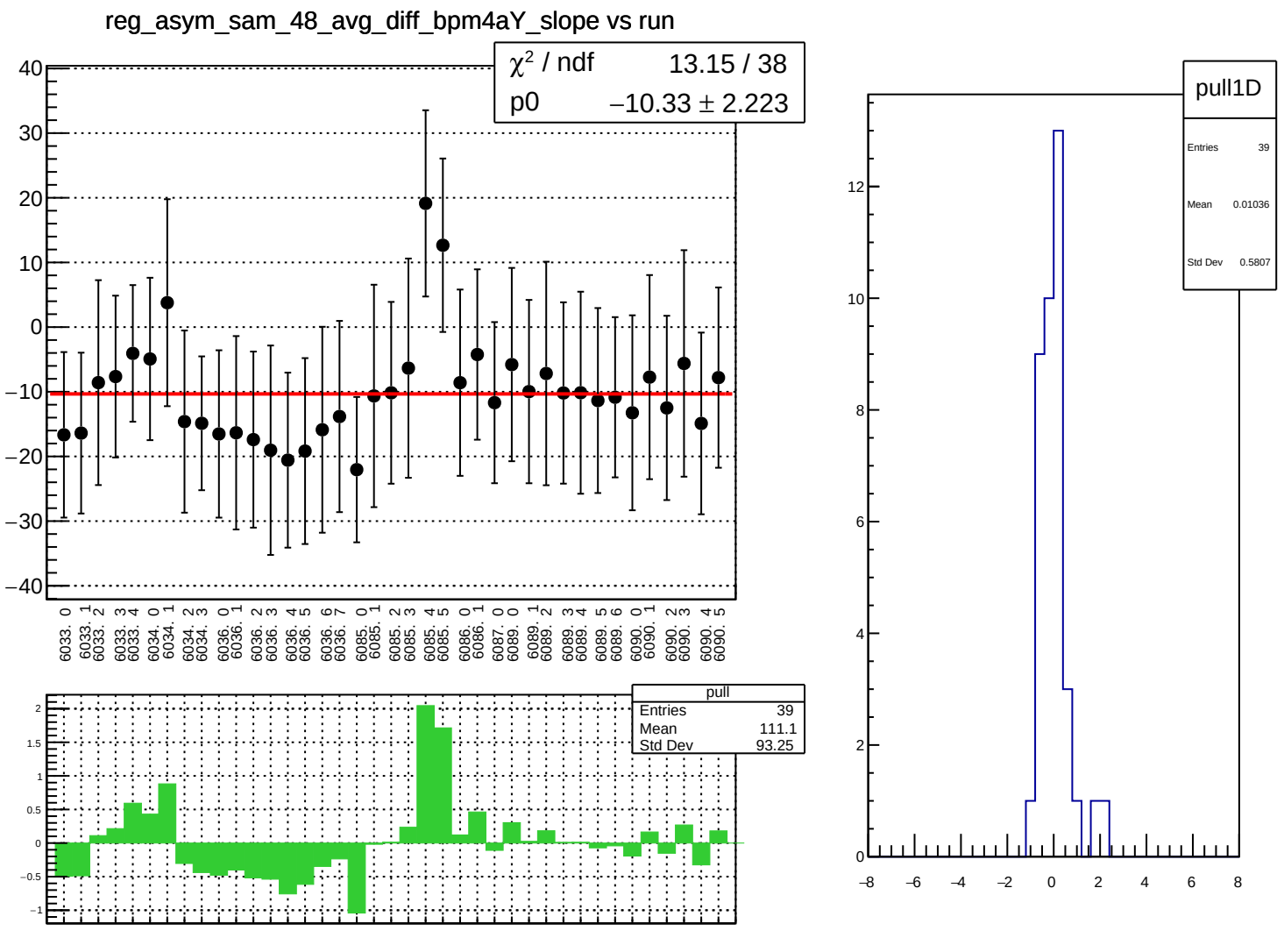

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.487 / 38
p0 −116.5 ± 3.137
pull
Entries 39
Mean 62.23
Std Dev 34.91

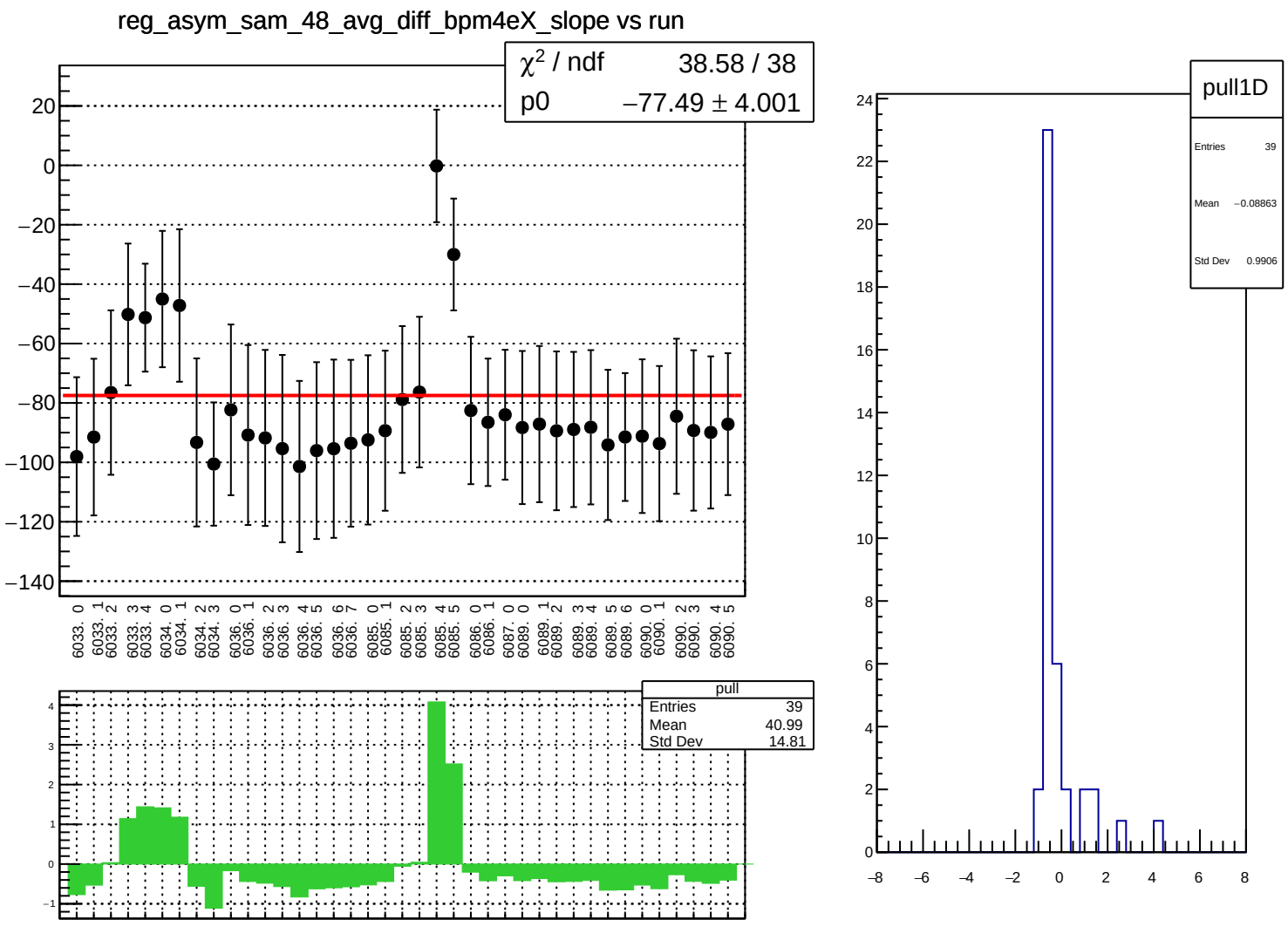

pull1D
Entries 39
Mean 0.007323
Std Dev 0.2989

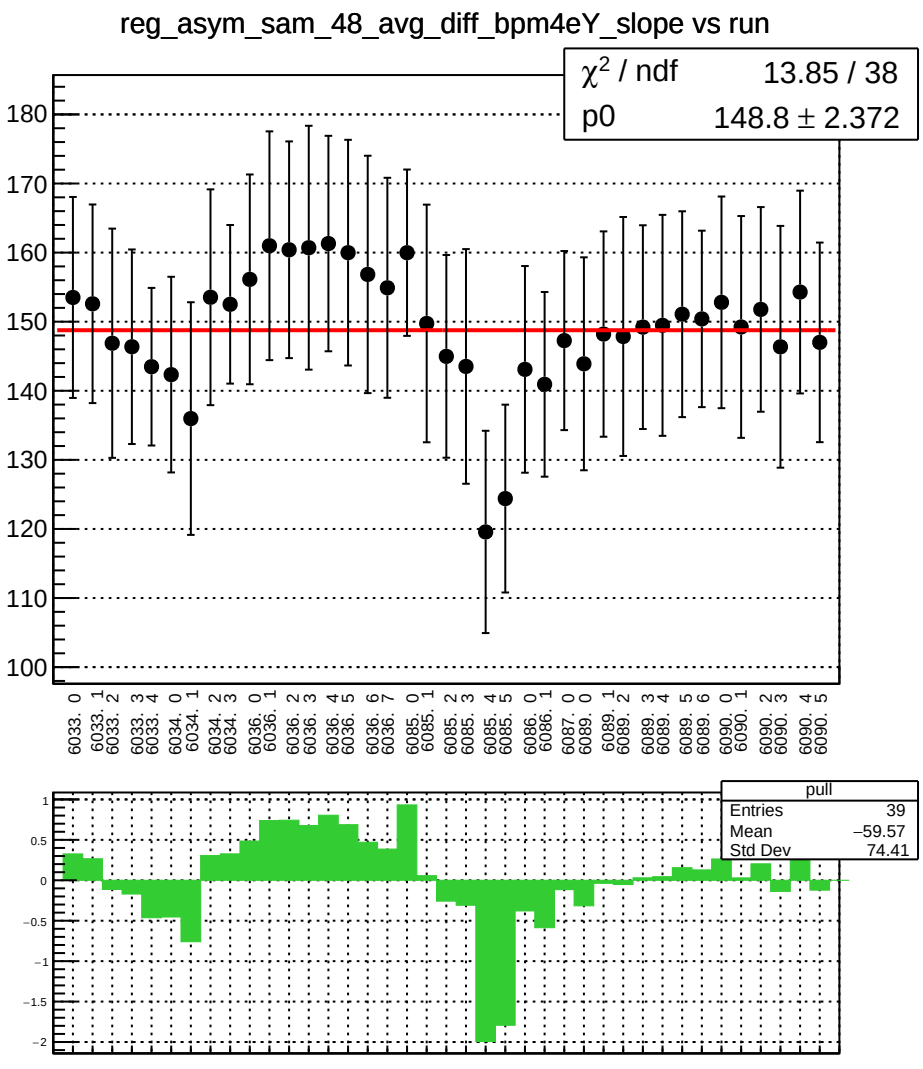

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.717 / 38
p0 −1.035 ± 0.2412
pull
Entries 39
Mean −50.88
Std Dev 70.79
pull1D
Entries 39
Mean 0.01569
Std Dev 0.2093

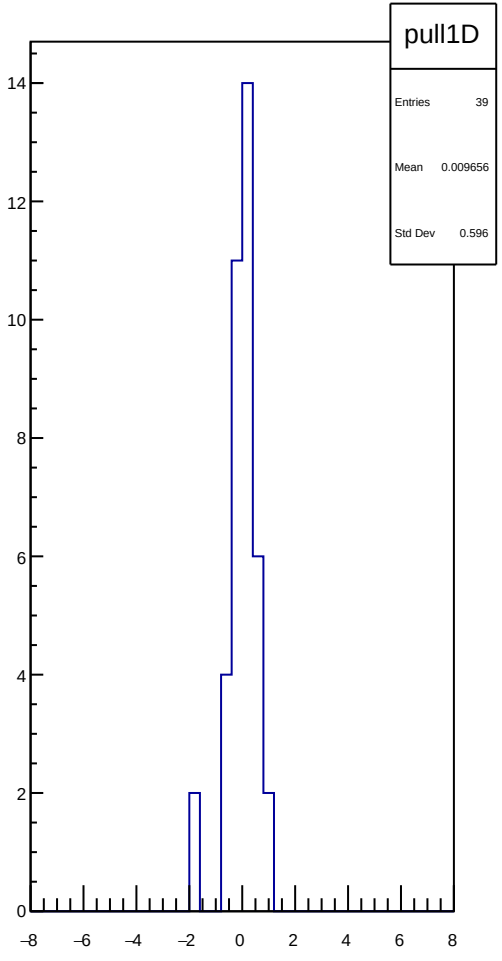

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.62 / 38
p0 −38.7 ± 3.56
0
−20
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 70.07
Std Dev 48.57
1
0
−1
−2
−3
−4

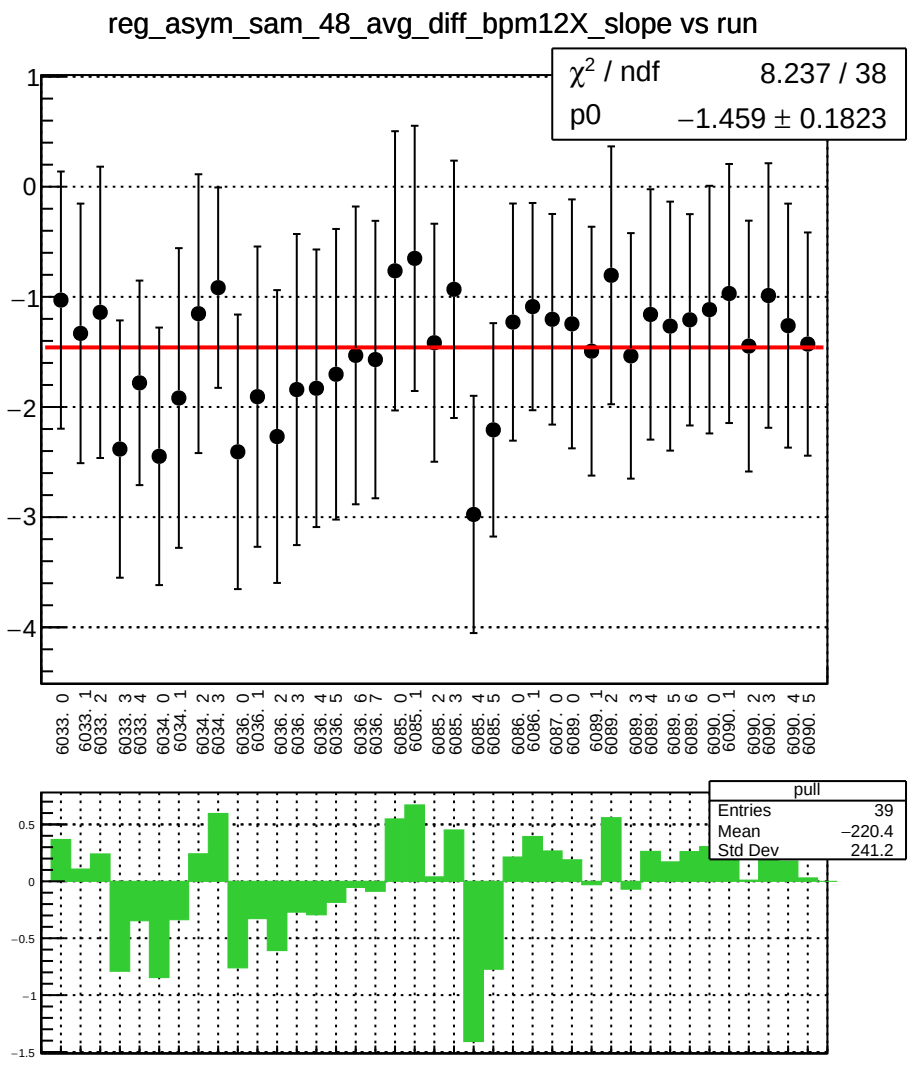

pull1D
Entries 39
Mean 0.0739
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

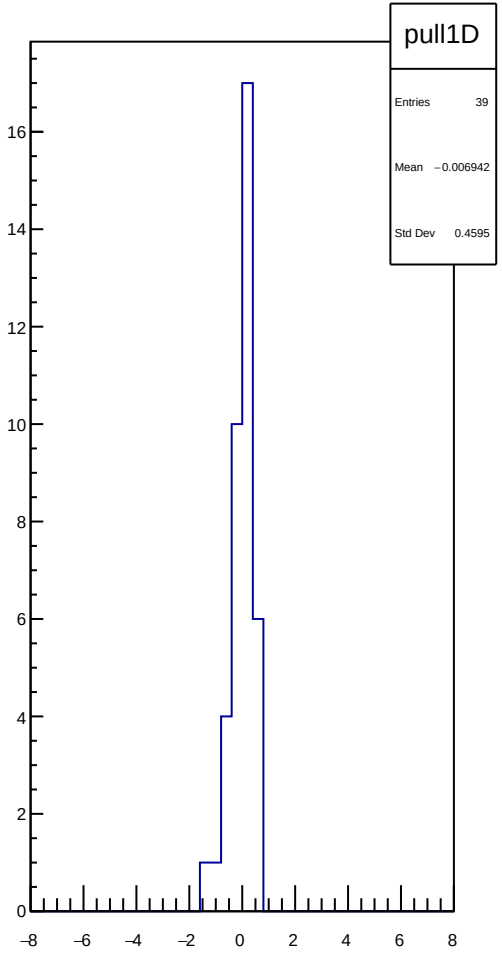

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.15 / 38
p0 −10.33 ± 2.223
pull
Entries 39
Mean 111.1
Std Dev 93.25
pull1D
Entries 39
Mean 0.01036
Std Dev 0.5807

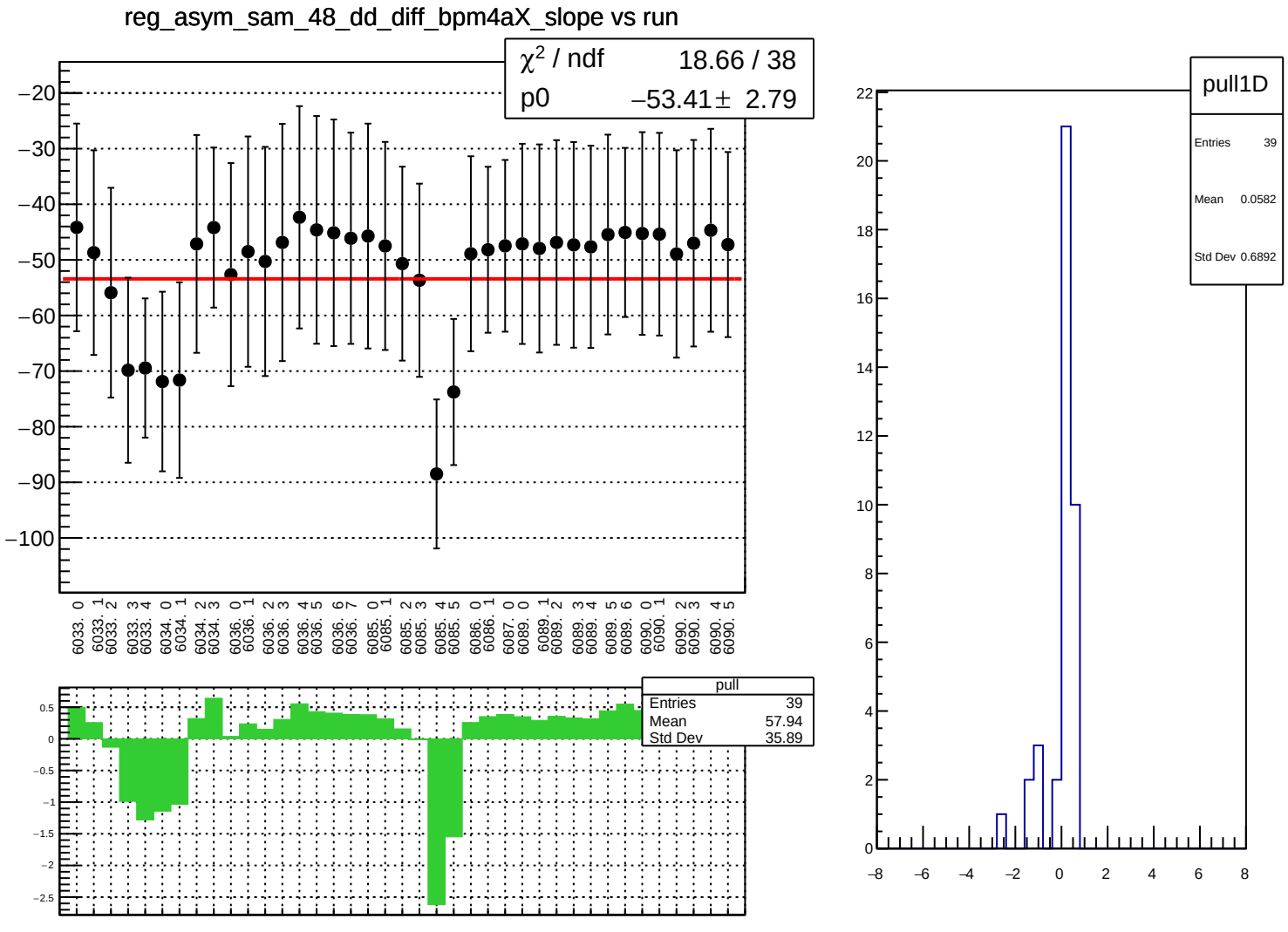

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.58 / 38
p0 −77.49 ± 4.001
pull
Entries 39
Mean 40.99
Std Dev 14.81
pull1D
Entries 39
Mean −0.08863
Std Dev 0.9906

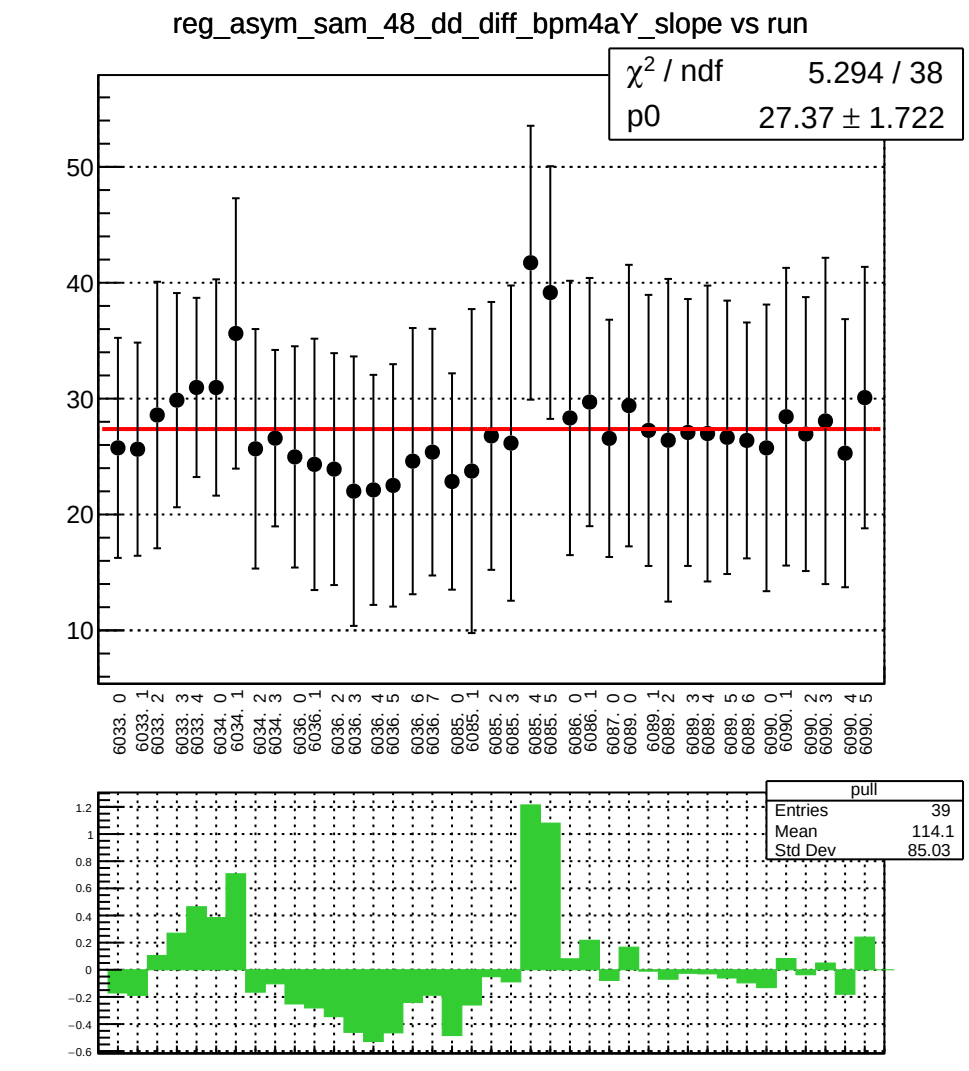

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.85 / 38
p0 148.8 ± 2.372
pull
Entries 39
Mean −59.57
Std Dev 74.41

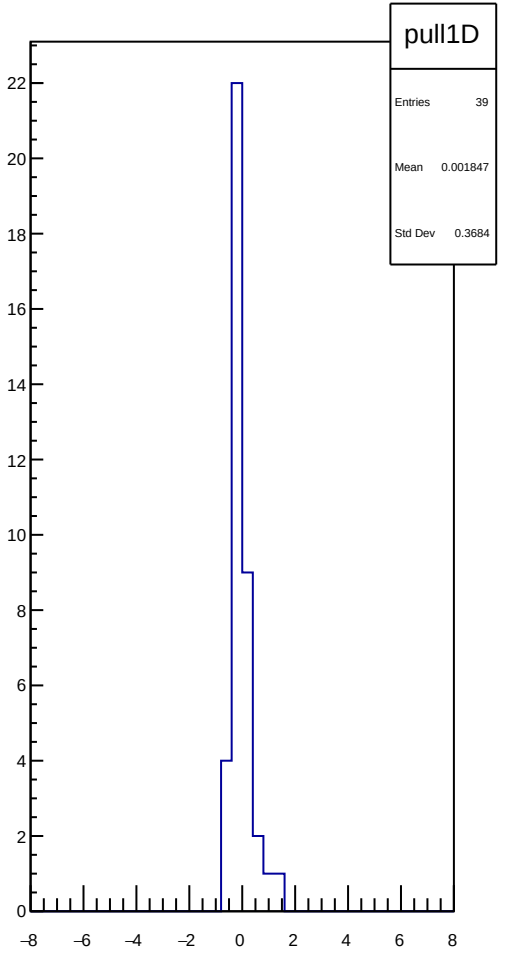

pull1D
Entries 39
Mean 0.009656
Std Dev 0.596

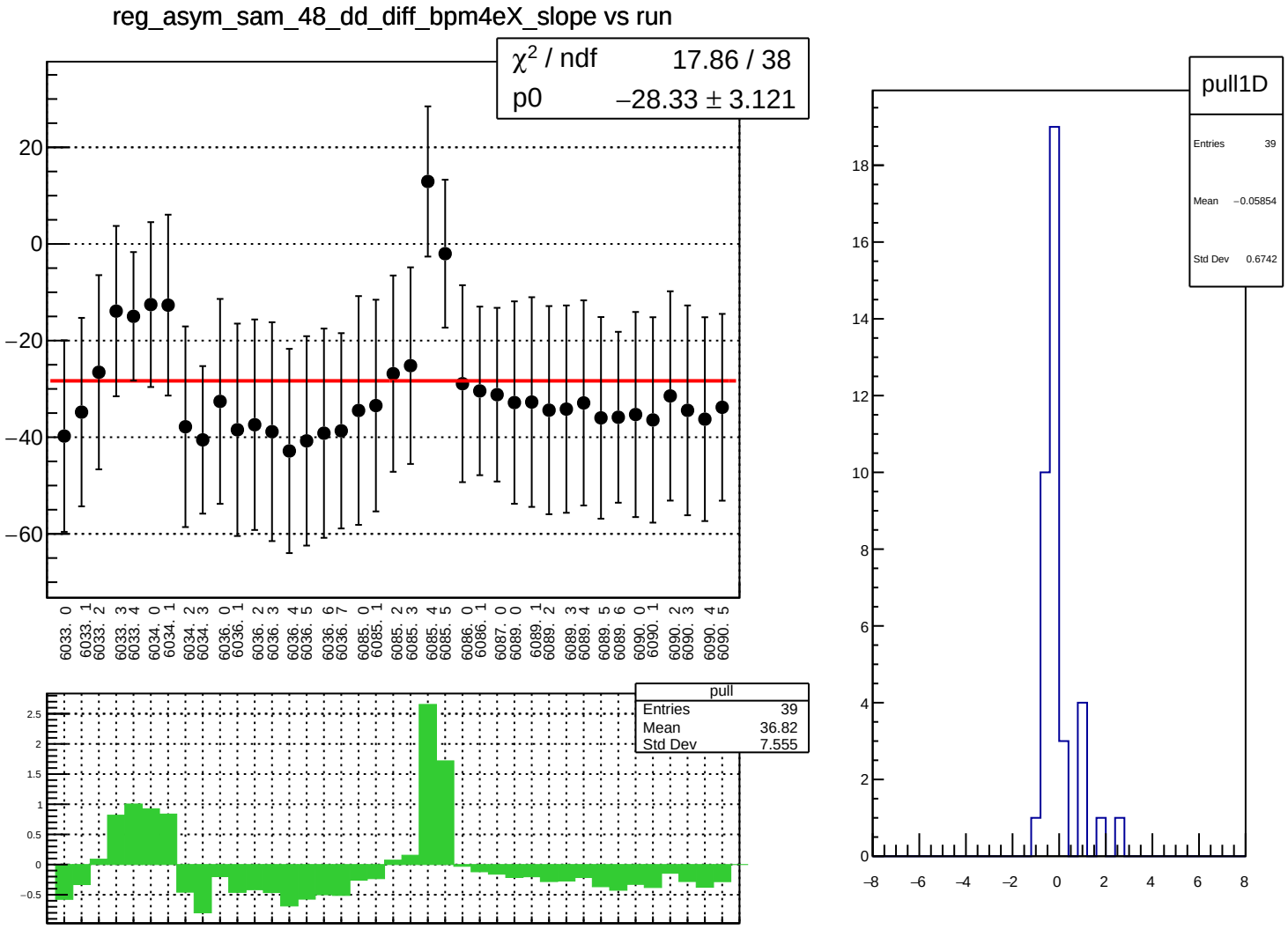

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 8.237 / 38
p0 −1.459 ± 0.1823
pull
Entries 39
Mean −220.4
Std Dev 241.2

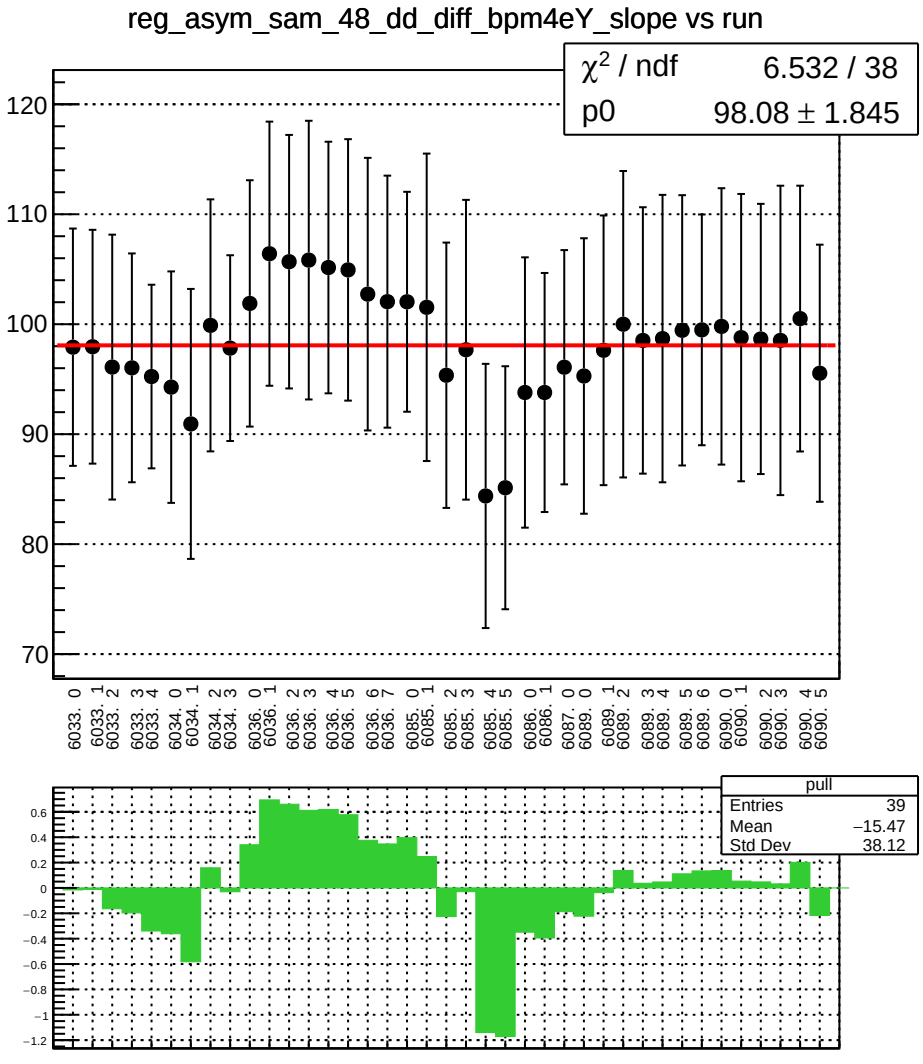

pull1D
Entries 39
Mean −0.006942
Std Dev 0.4595

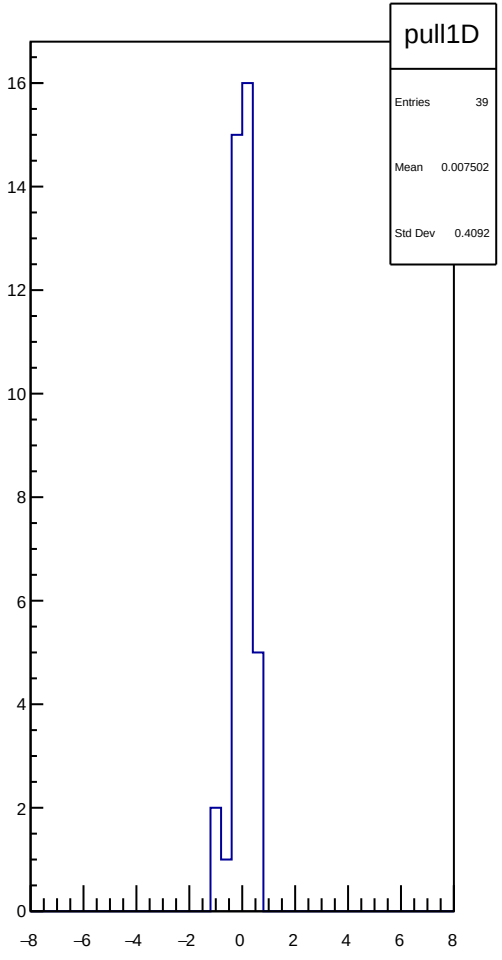

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.66 / 38
p0 −53.41± 2.79
pull
Entries 39
Mean 57.94
Std Dev 35.89
pull1D
Entries 39
Mean 0.0582
Std Dev 0.6892

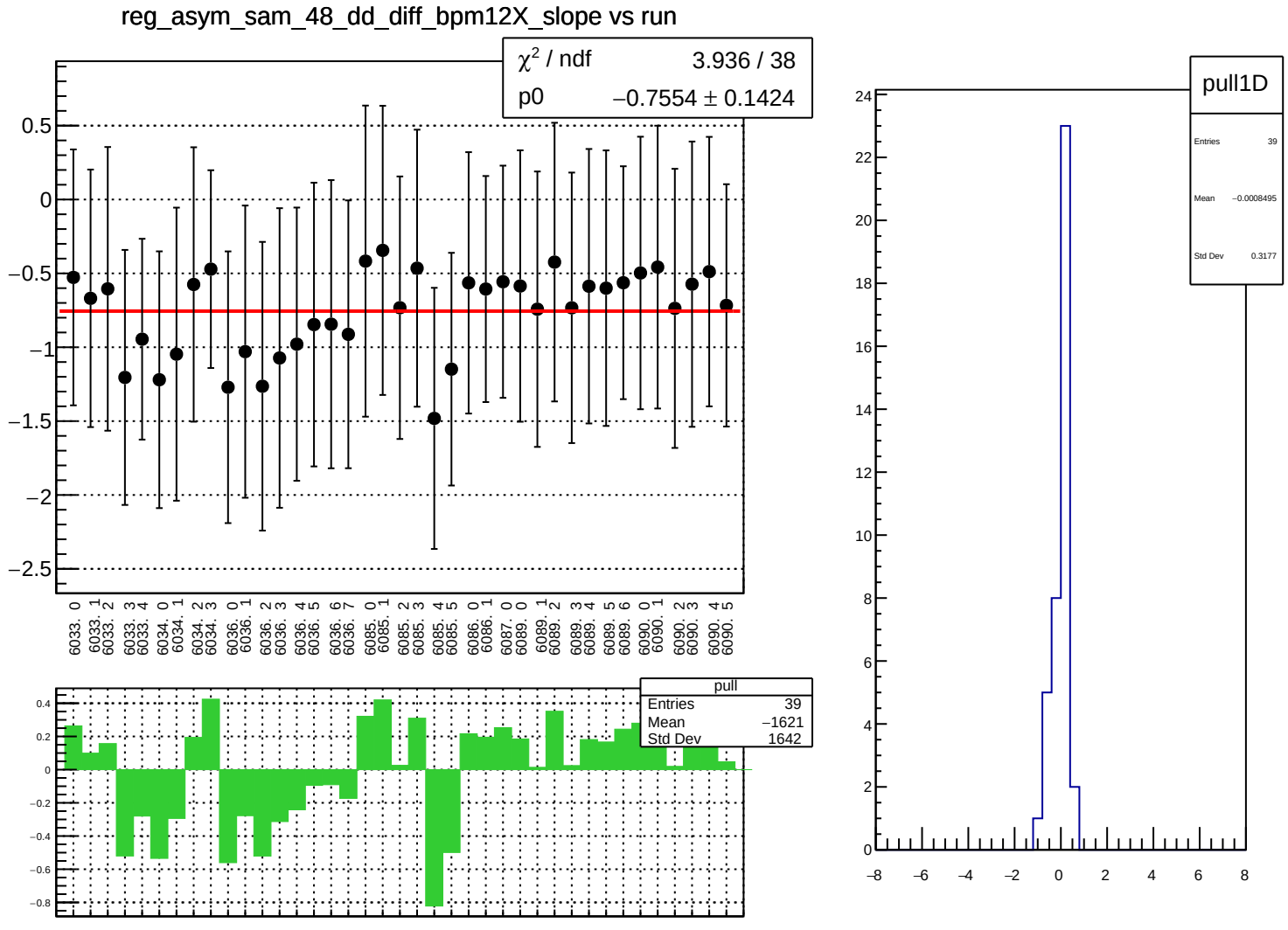

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.294 / 38
p0 27.37 ± 1.722
pull
Entries 39
Mean 114.1
Std Dev 85.03

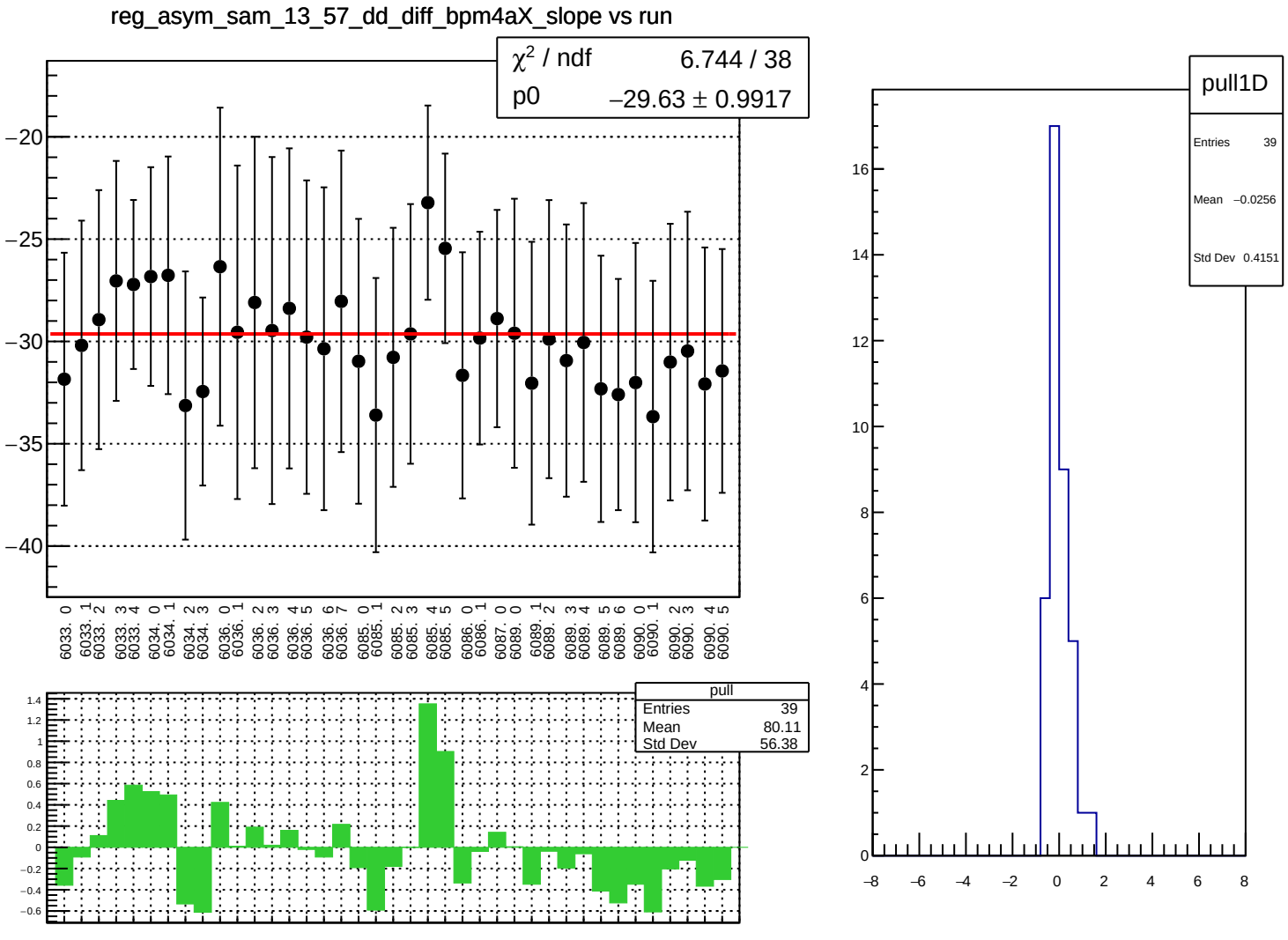

pull1D
Entries 39
Mean 0.001847
Std Dev 0.3684

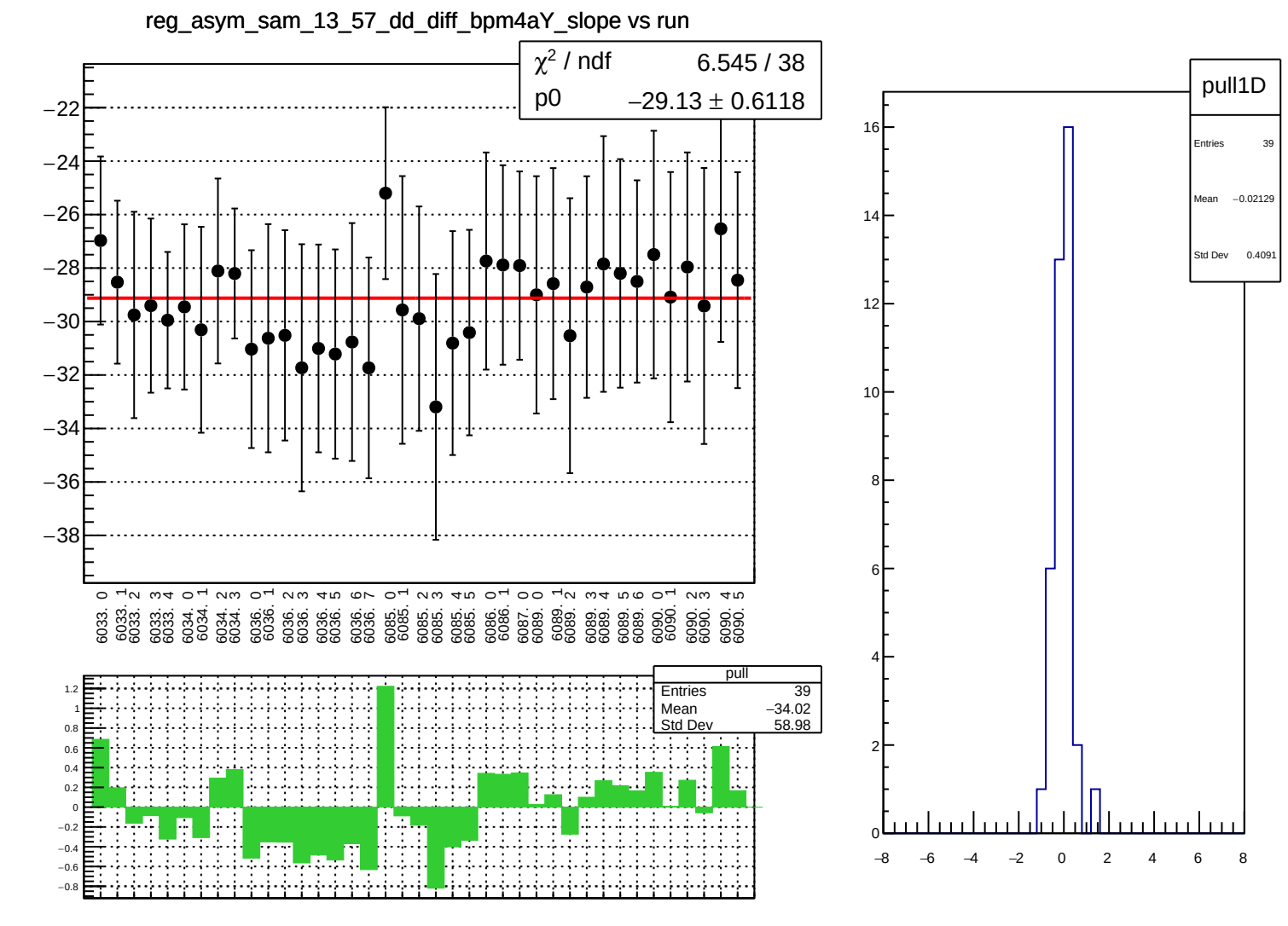

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.86 / 38
p0 −28.33 ± 3.121
20
0
−20
−40
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.82
Std Dev 7.555
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.05854
Std Dev 0.6742
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

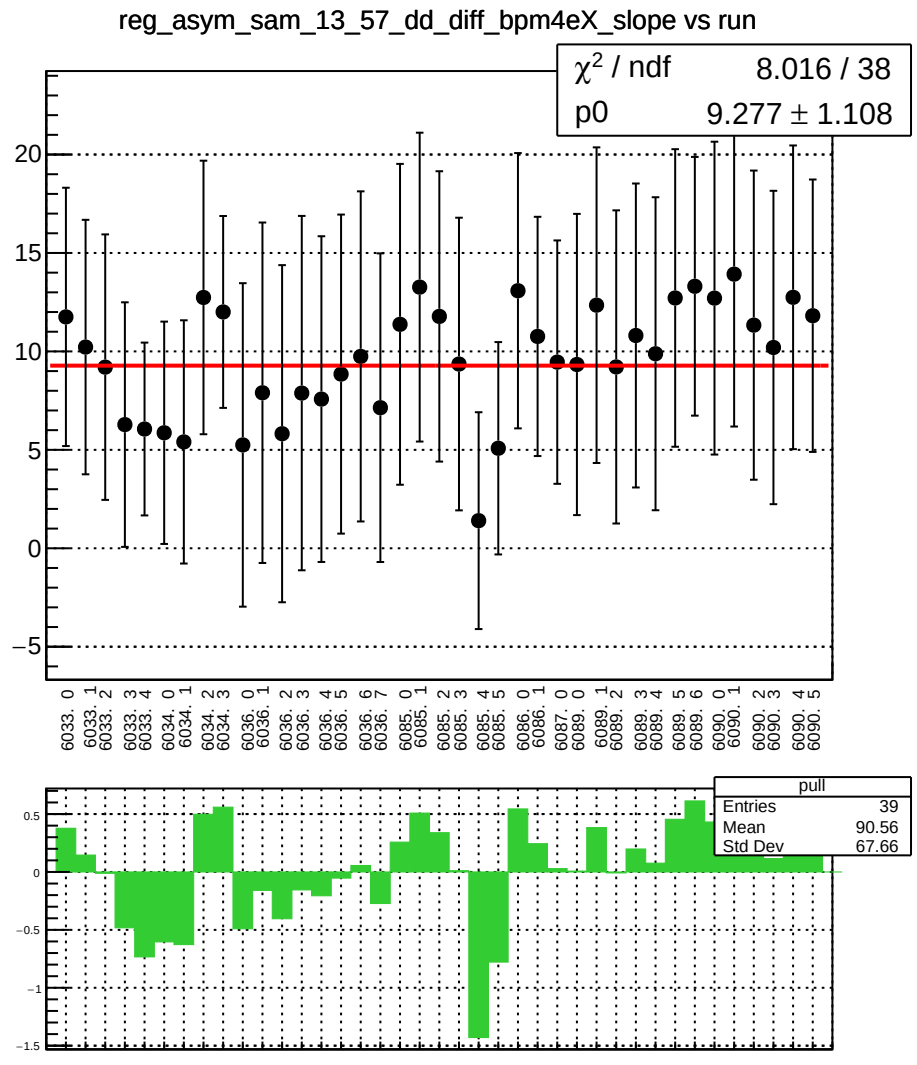

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.532 / 38
p0 98.08 ± 1.845
120
110
100
90
80
70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −15.47
Std Dev 38.12
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

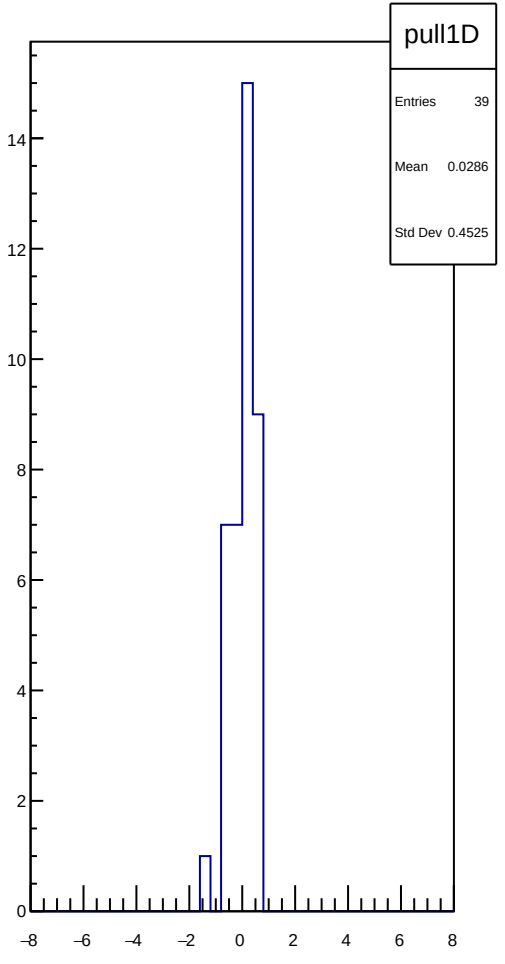

pull1D
Entries 39
Mean 0.007502
Std Dev 0.4092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

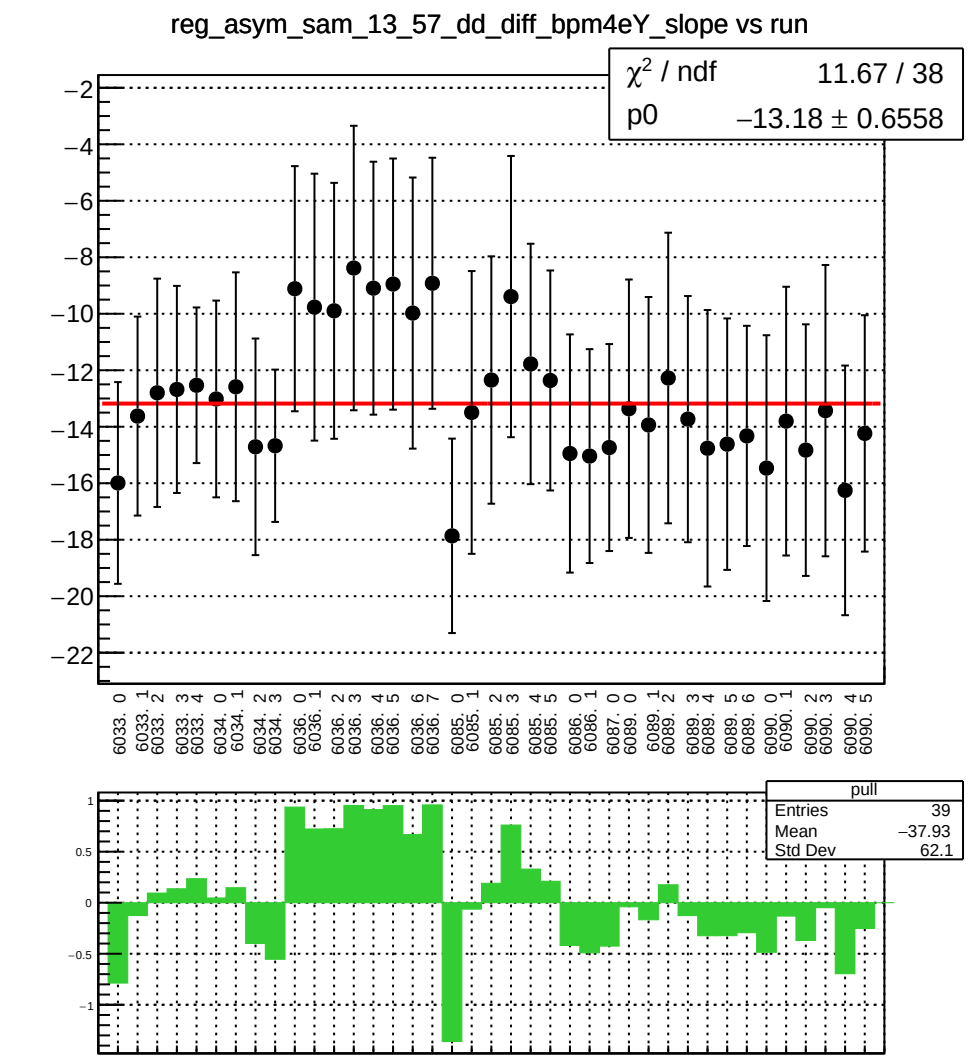

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.936 / 38
p0 −0.7554 ± 0.1424
pull
Entries 39
Mean −1621
Std Dev 1642
pull1D
Entries 39
Mean −0.0008495
Std Dev 0.3177

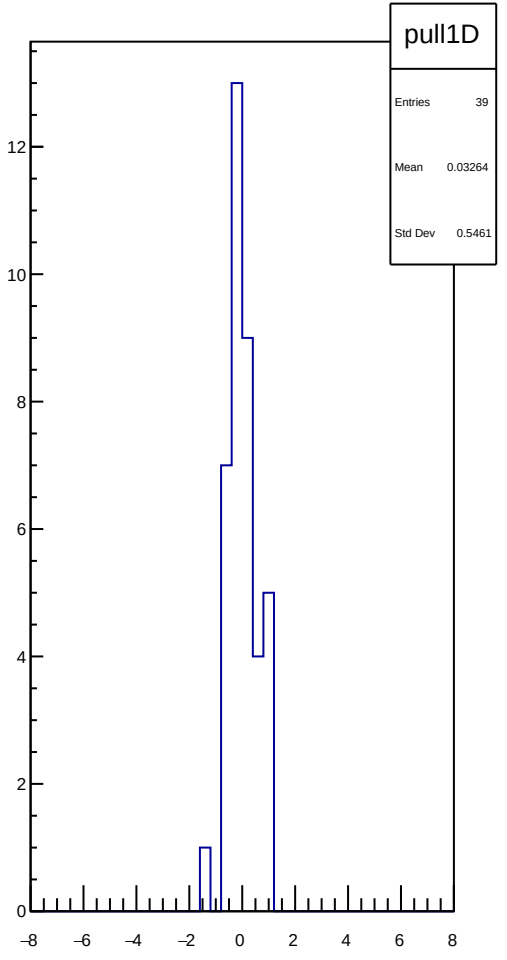

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.744 / 38
p0 −29.63 ± 0.9917
−20
−25
−30
−35
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 80.11
Std Dev 56.38
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.0256
Std Dev 0.4151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

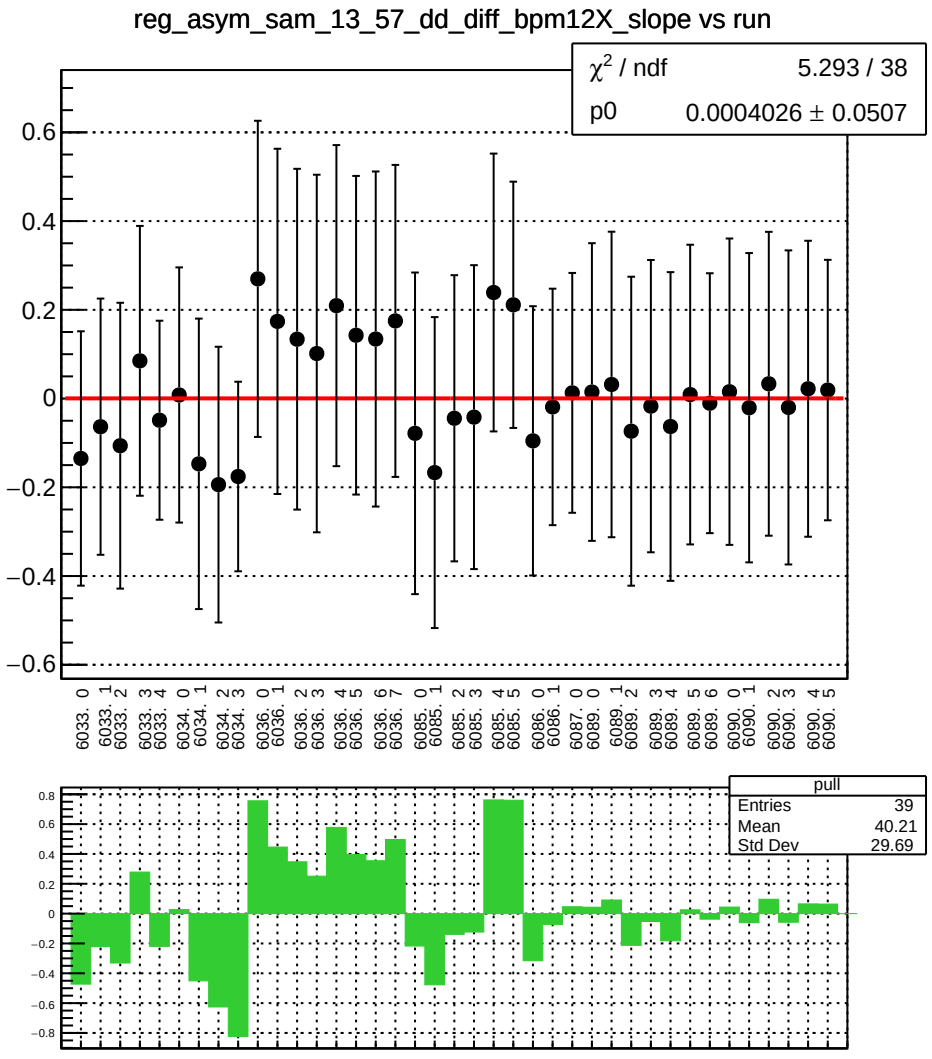

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.545 / 38
p0 −29.13 ± 0.6118
pull
Entries 39
Mean −34.02
Std Dev 58.98
pull1D
Entries 39
Mean −0.02129
Std Dev 0.4091

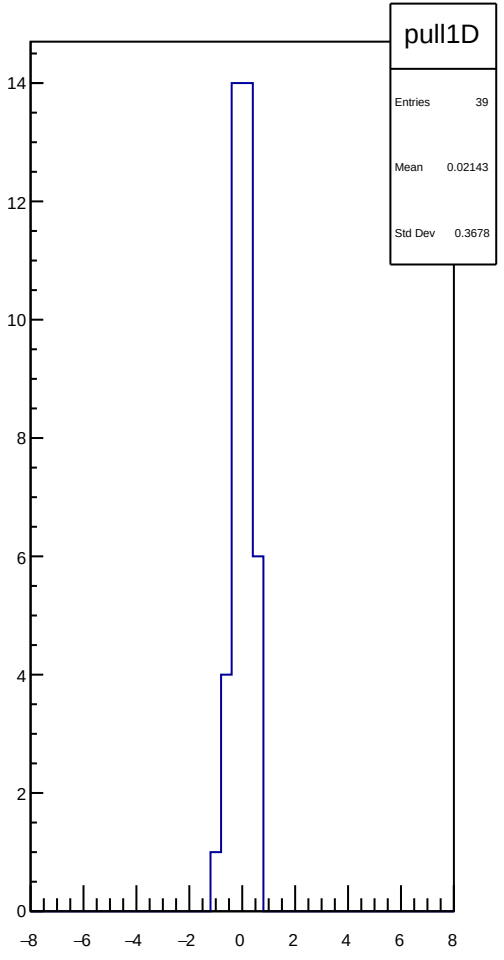

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.016 / 38
p0 9.277 ± 1.108
pull
Entries 39
Mean 90.56
Std Dev 67.66

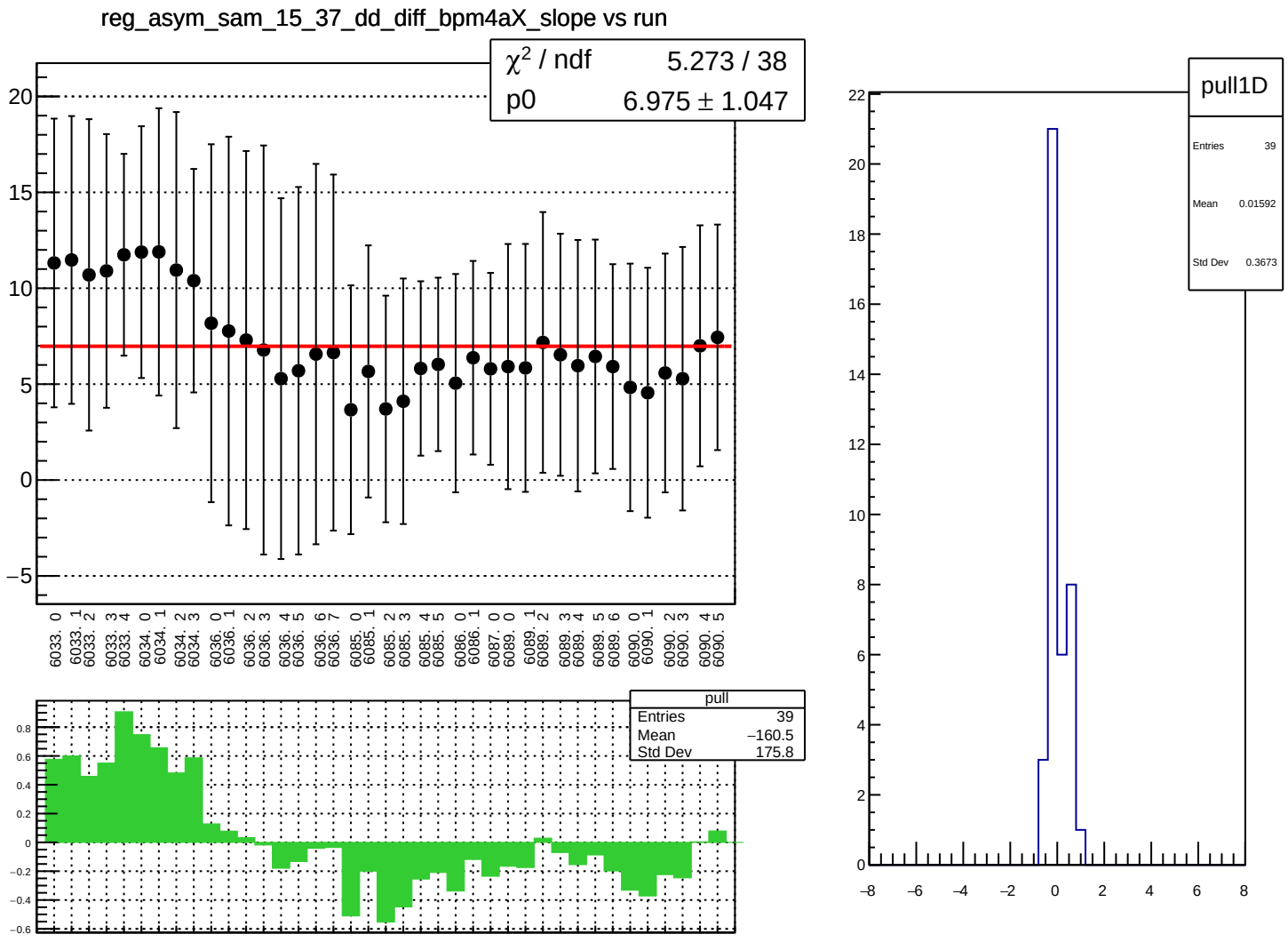

pull1D
Entries 39
Mean 0.0286
Std Dev 0.4525

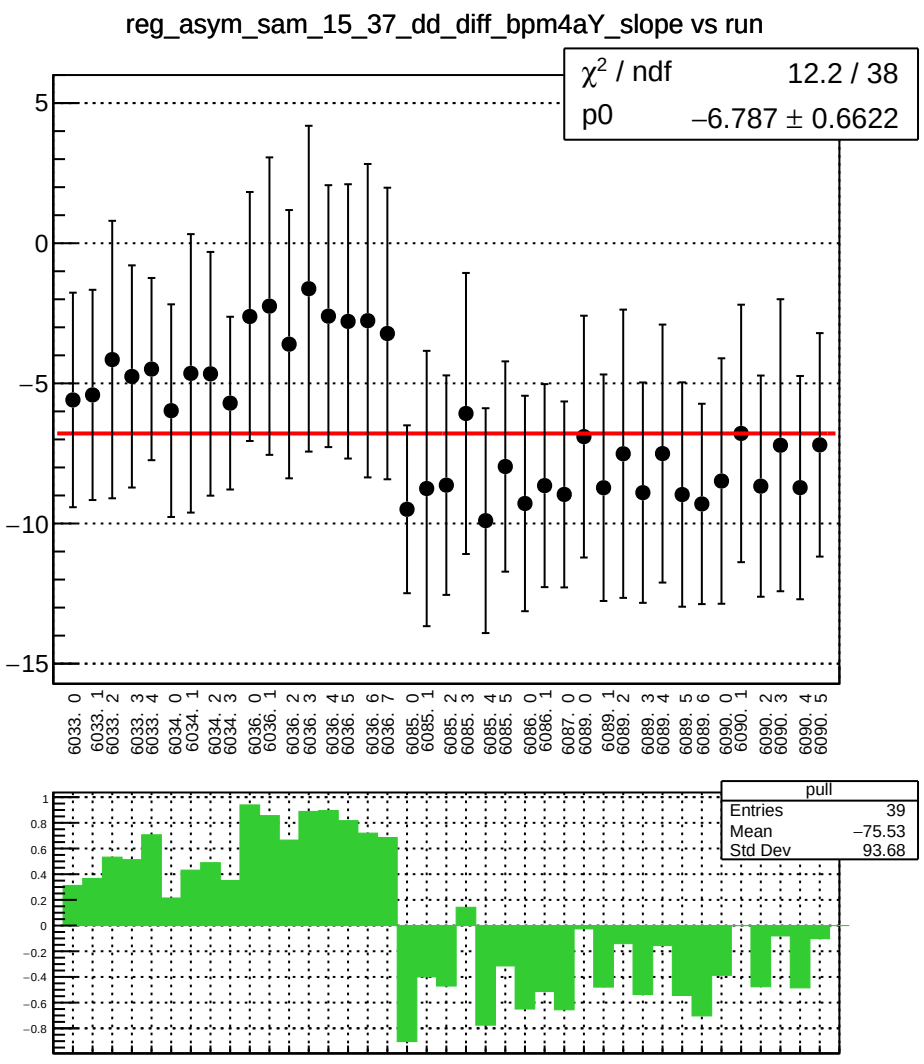

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.67 / 38
p0 −13.18 ± 0.6558
pull
Entries 39
Mean −37.93
Std Dev 62.1

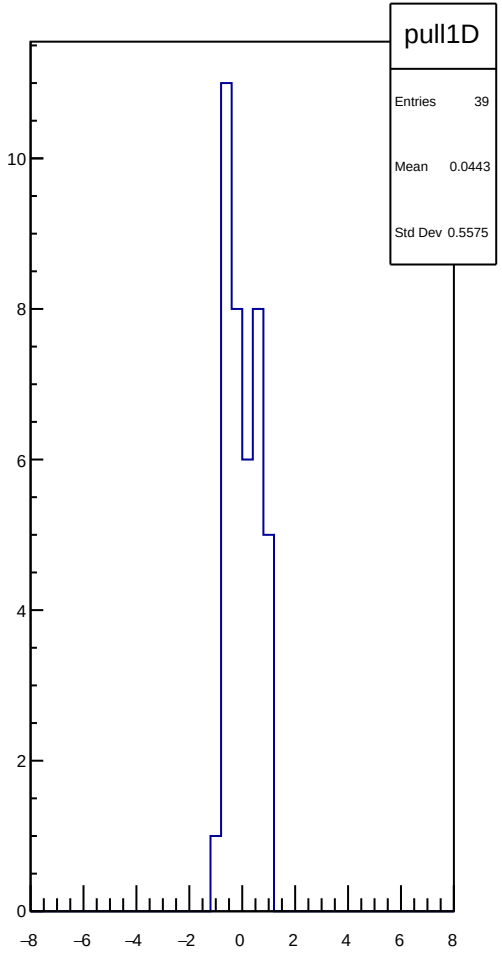

pull1D
Entries 39
Mean 0.03264
Std Dev 0.5461

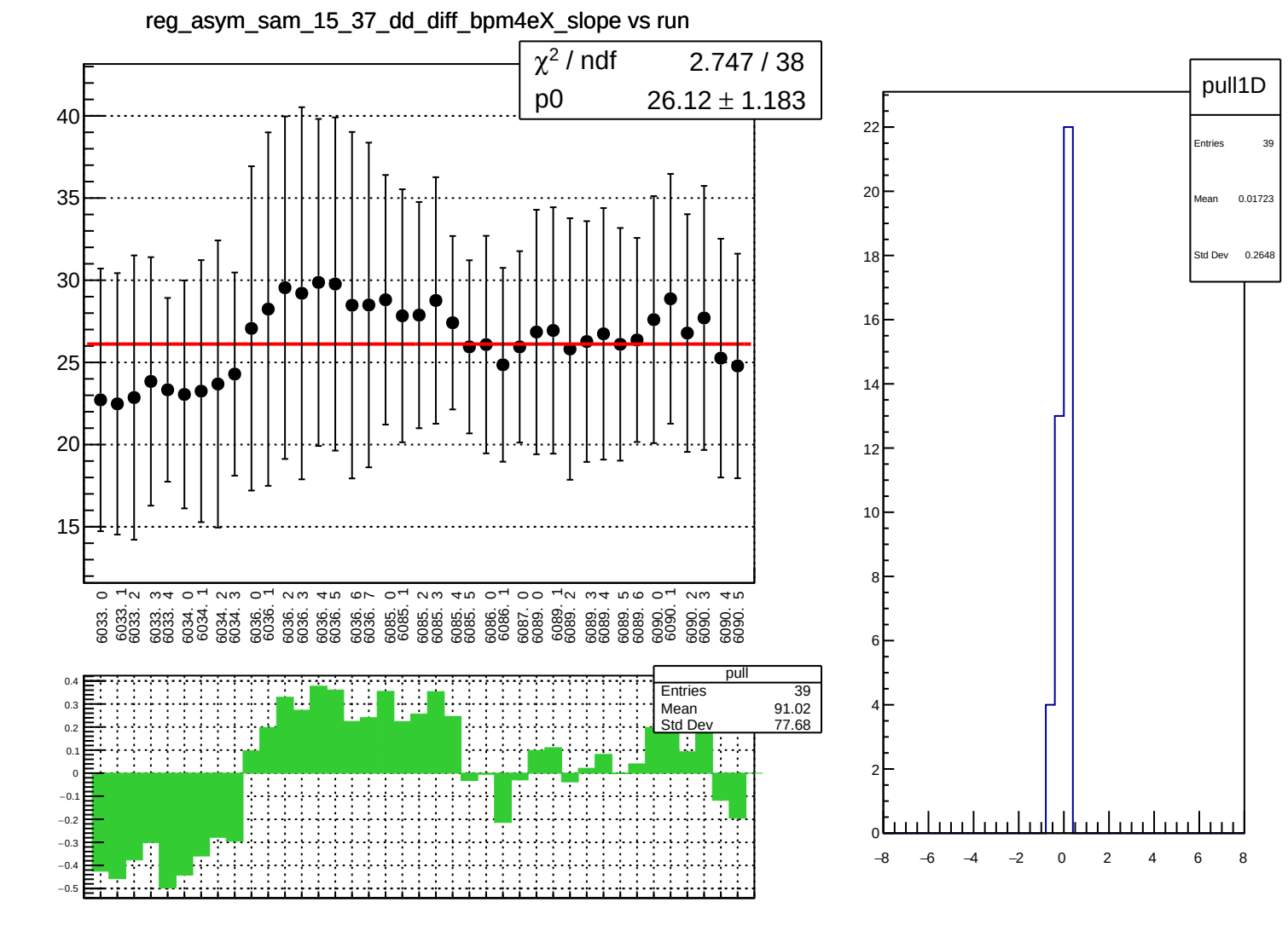

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 5.293 / 38
p0 0.0004026 ± 0.0507
pull
Entries 39
Mean 40.21
Std Dev 29.69

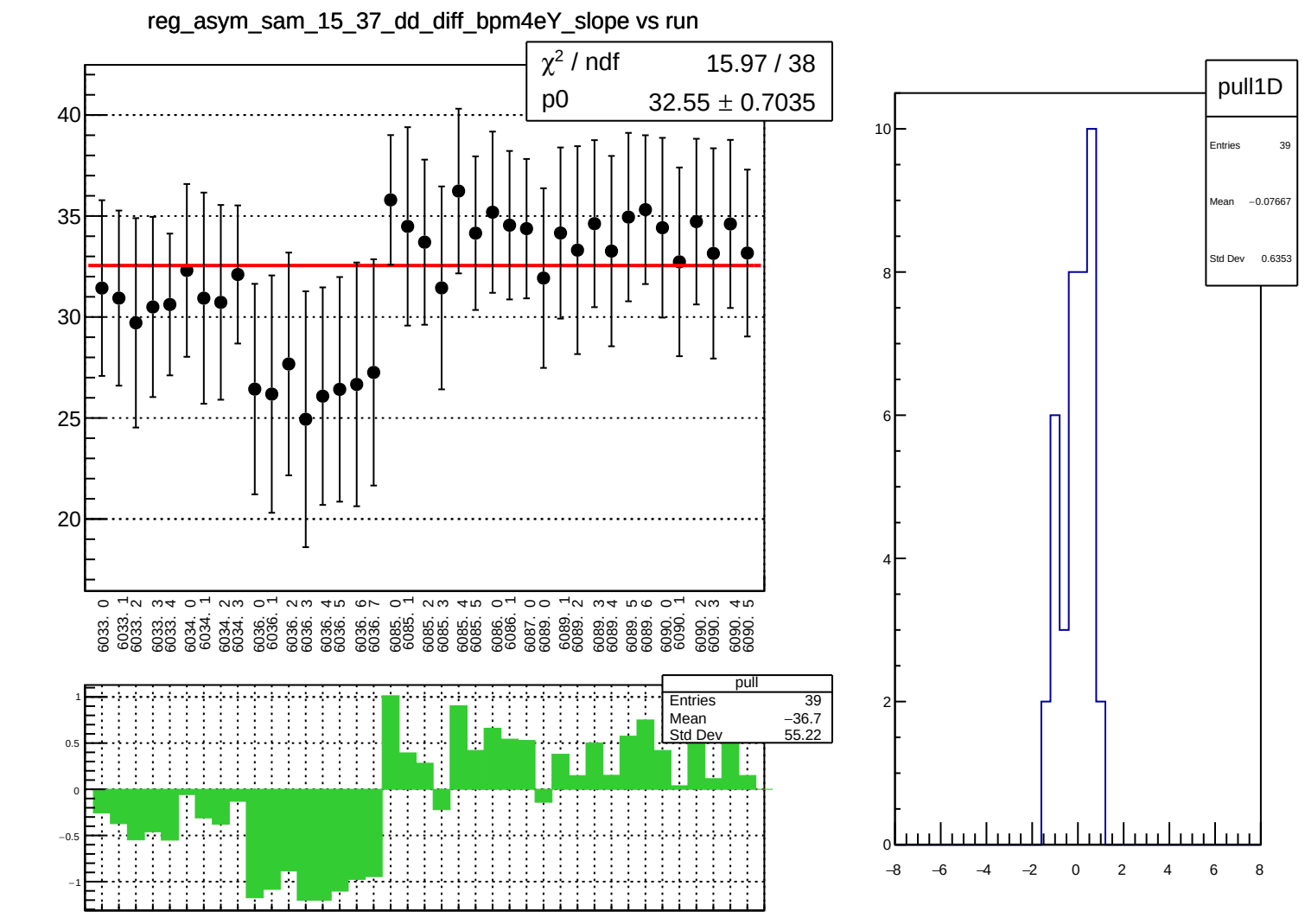

pull1D
Entries 39
Mean 0.02143
Std Dev 0.3678

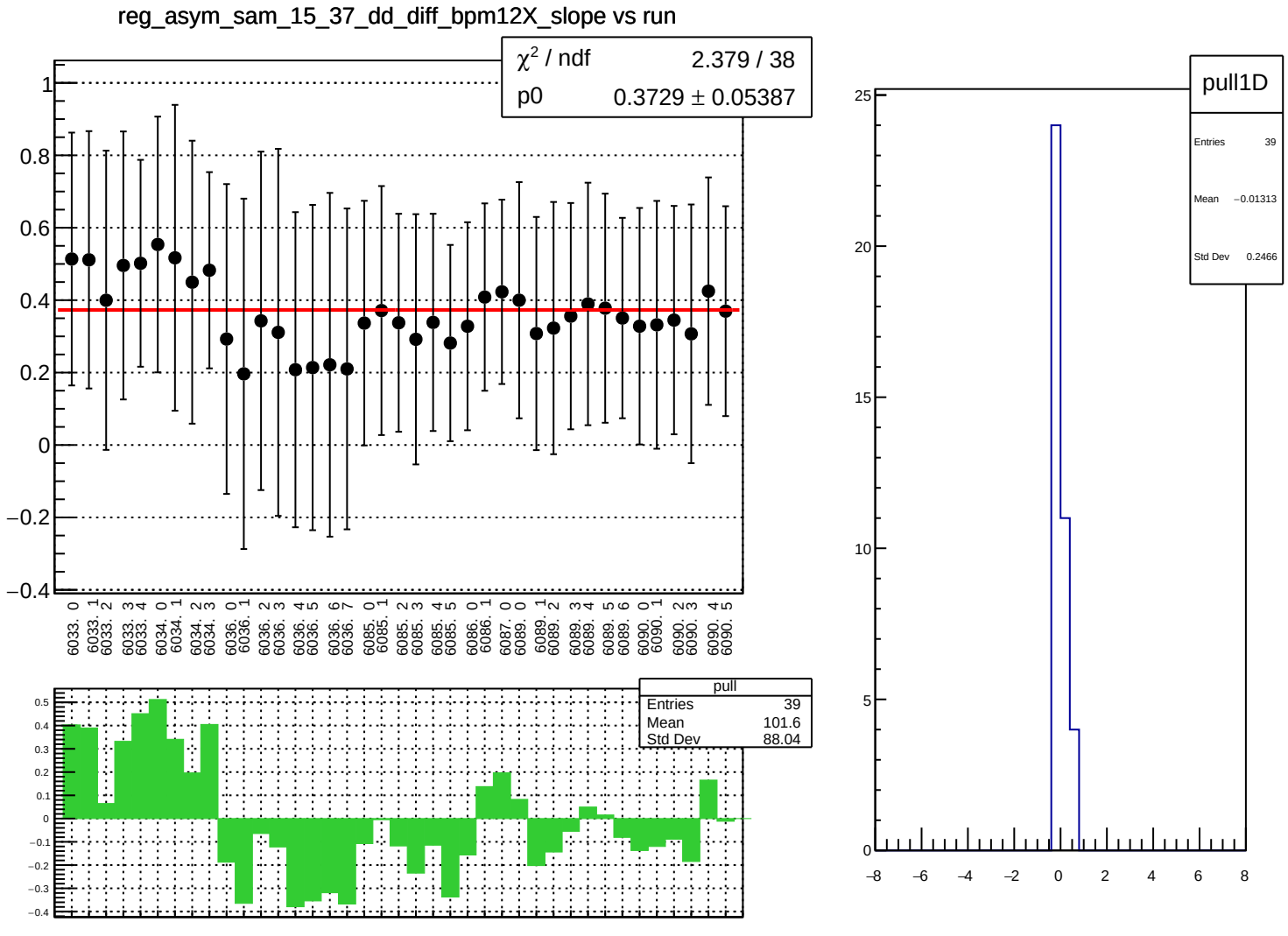

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.273 / 38
p0 6.975 ± 1.047
pull
Entries 39
Mean −160.5
Std Dev 175.8
pull1D
Entries 39
Mean 0.01592
Std Dev 0.3673

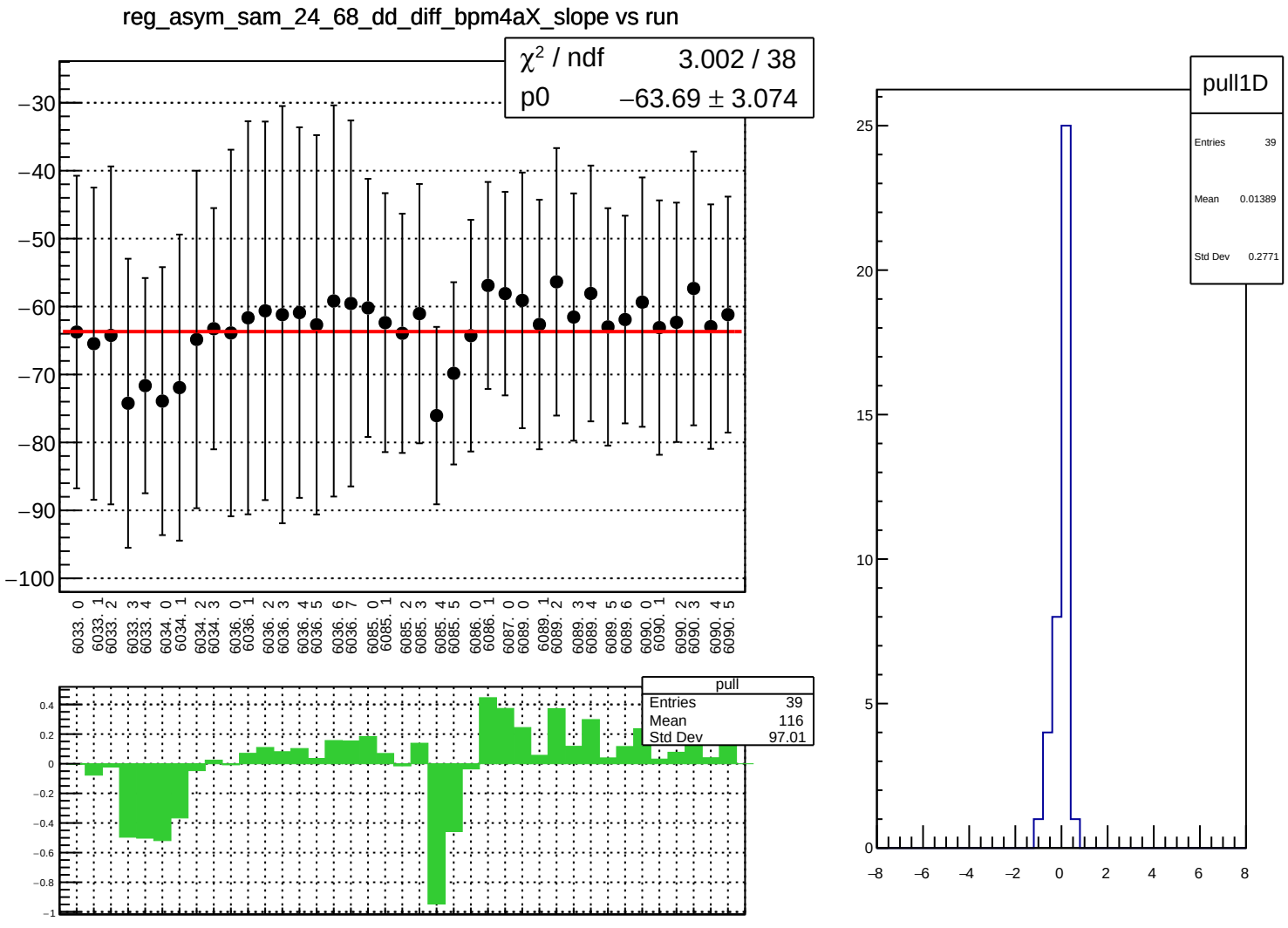

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.2 / 38
p0 −6.787 ± 0.6622
pull
Entries 39
Mean −75.53
Std Dev 93.68

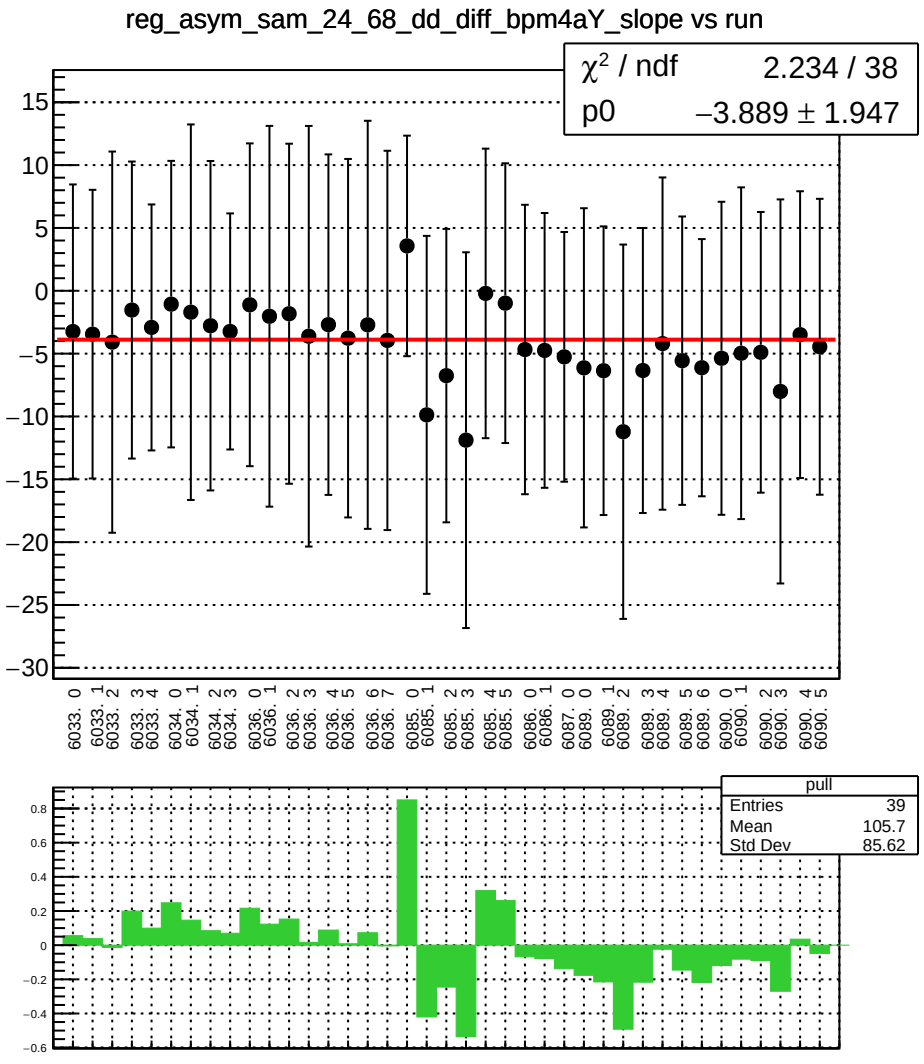

pull1D
Entries 39
Mean 0.0443
Std Dev 0.5575

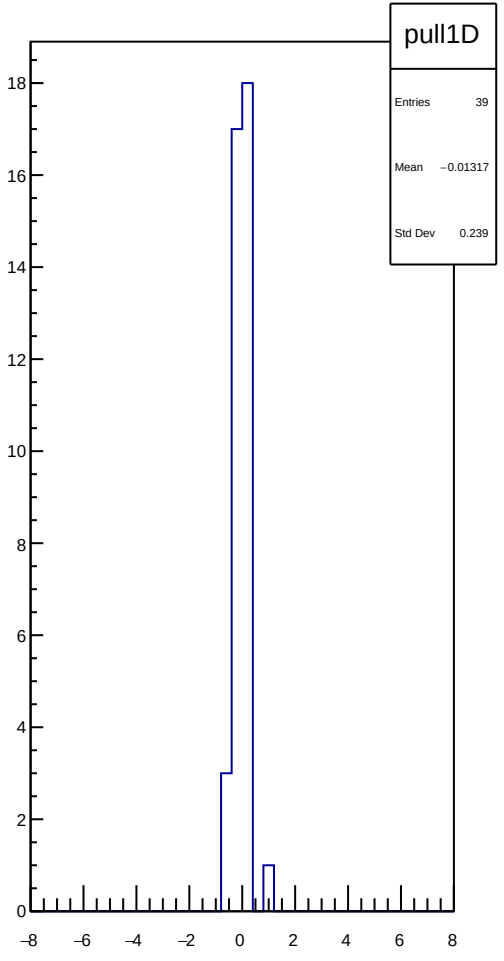

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.747 / 38
p0 26.12 ± 1.183
40
35
30
25
20
15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 91.02
Std Dev 77.68
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 39
Mean 0.01723
Std Dev 0.2648
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

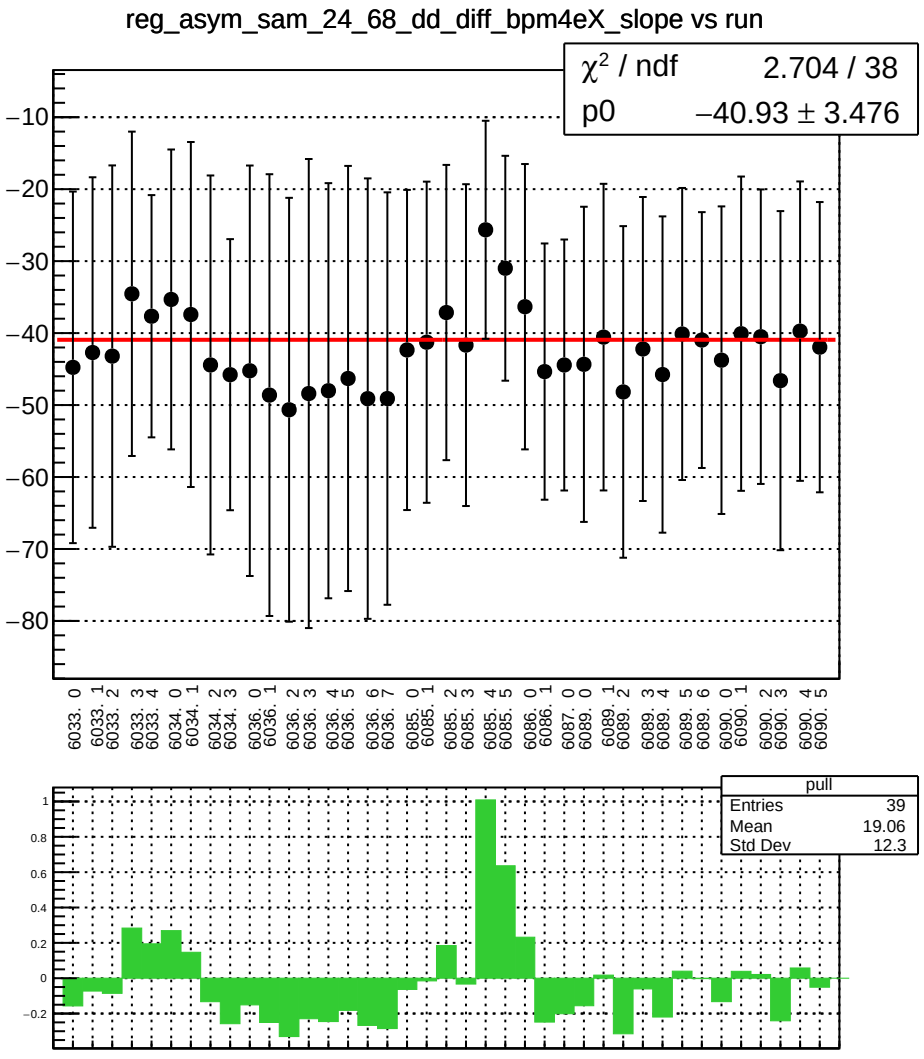

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.97 / 38
p0 32.55 ± 0.7035
40
35
30
25
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −36.7
Std Dev 55.22
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.07667
Std Dev 0.6353
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

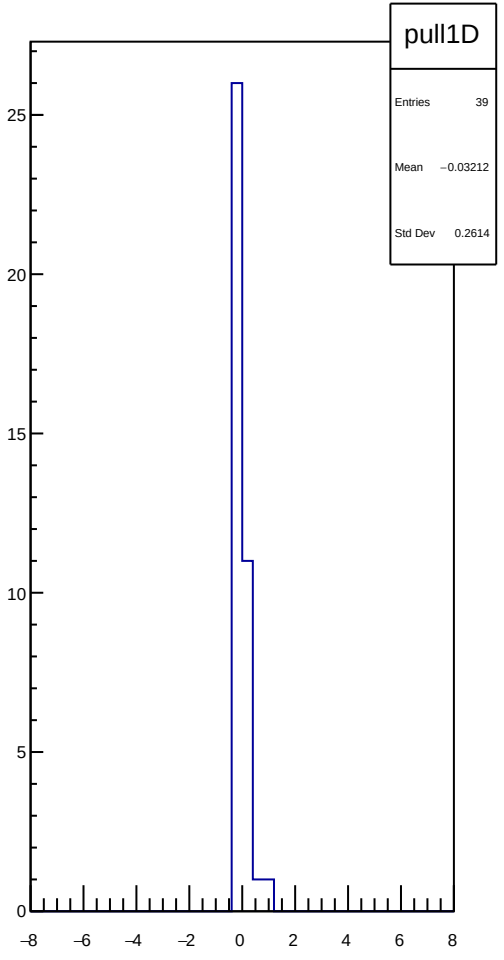

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.379 / 38
p0 0.3729 ± 0.05387
pull
Entries 39
Mean 101.6
Std Dev 88.04
pull1D
Entries 39
Mean −0.01313
Std Dev 0.2466

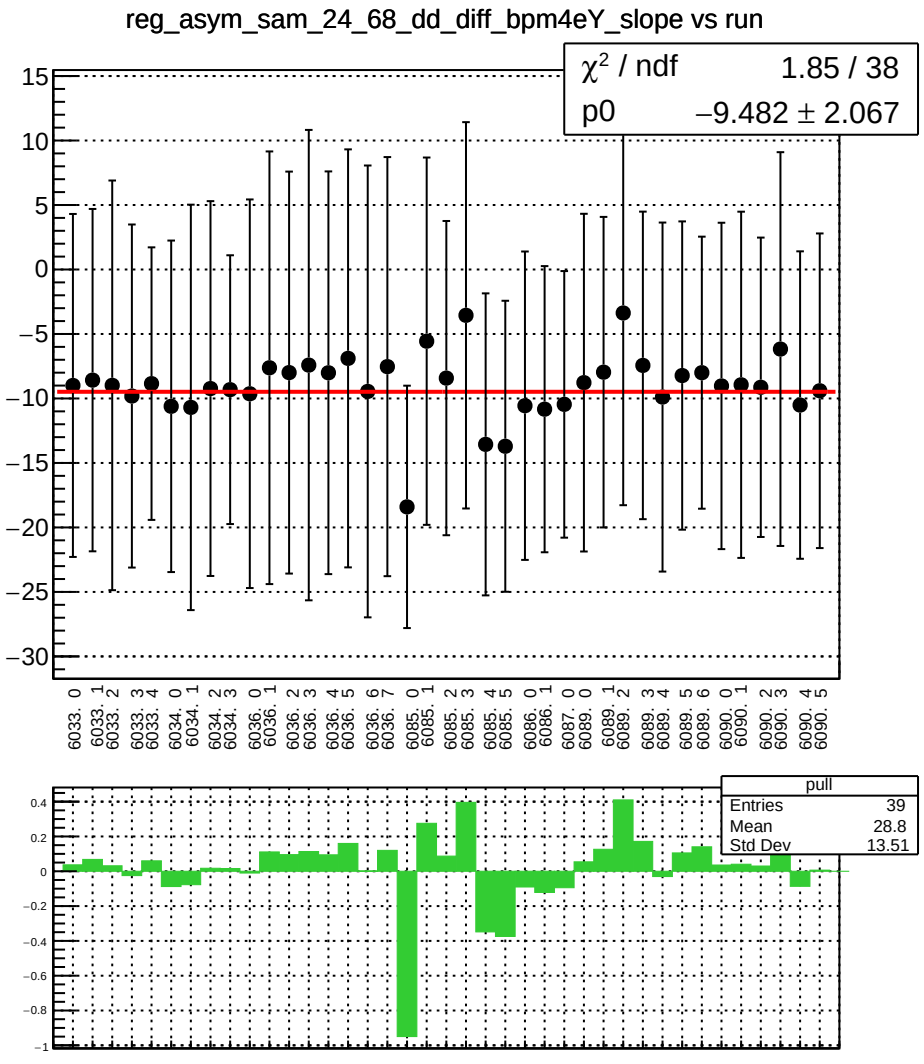

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.002 / 38
p0 −63.69 ± 3.074
pull
Entries 39
Mean 116
Std Dev 97.01
pull1D
Entries 39
Mean 0.01389
Std Dev 0.2771

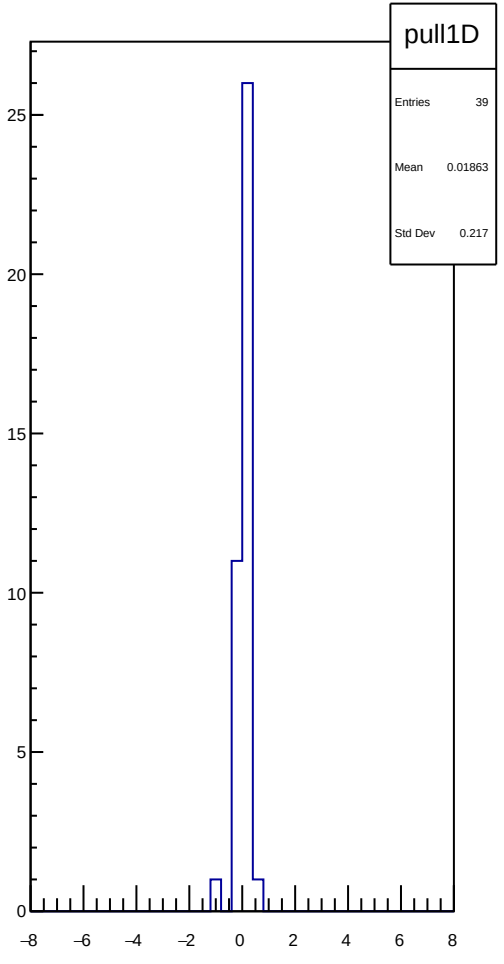

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.234 / 38
p0 −3.889 ± 1.947
pull
Entries 39
Mean 105.7
Std Dev 85.62

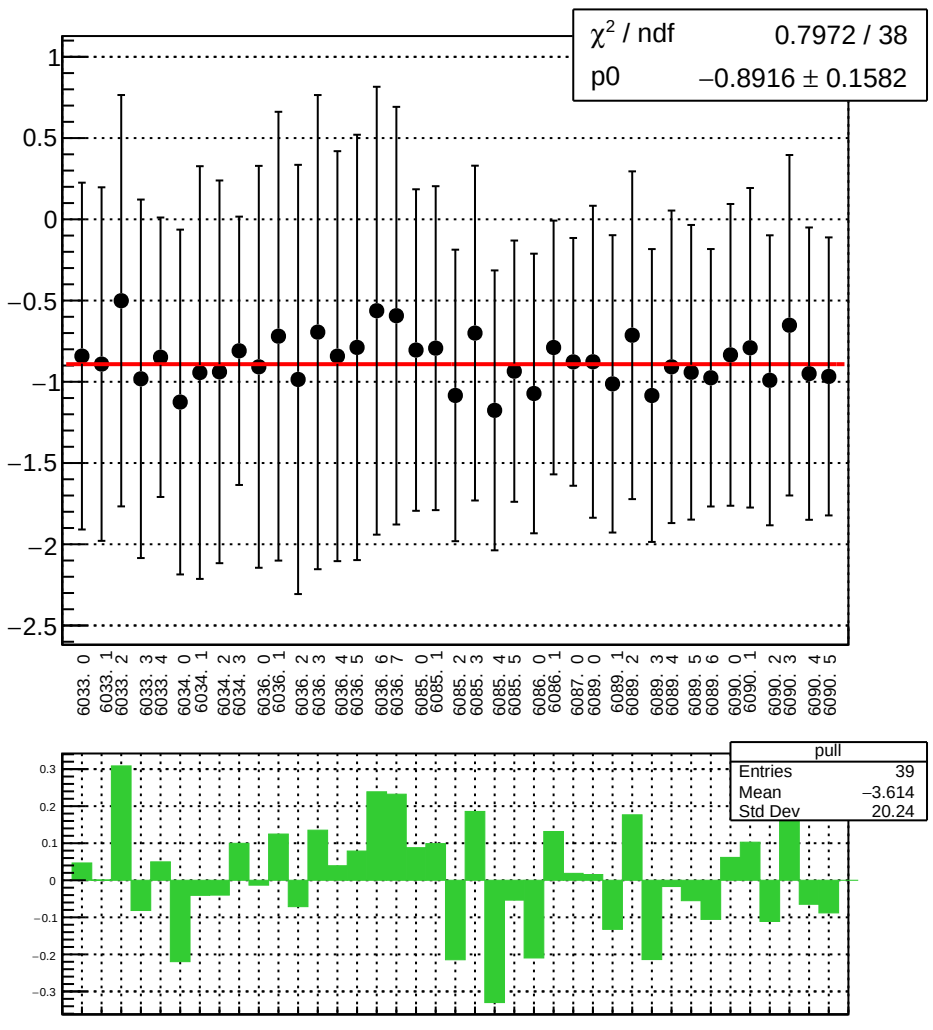

pull1D
Entries 39
Mean −0.01317
Std Dev 0.239

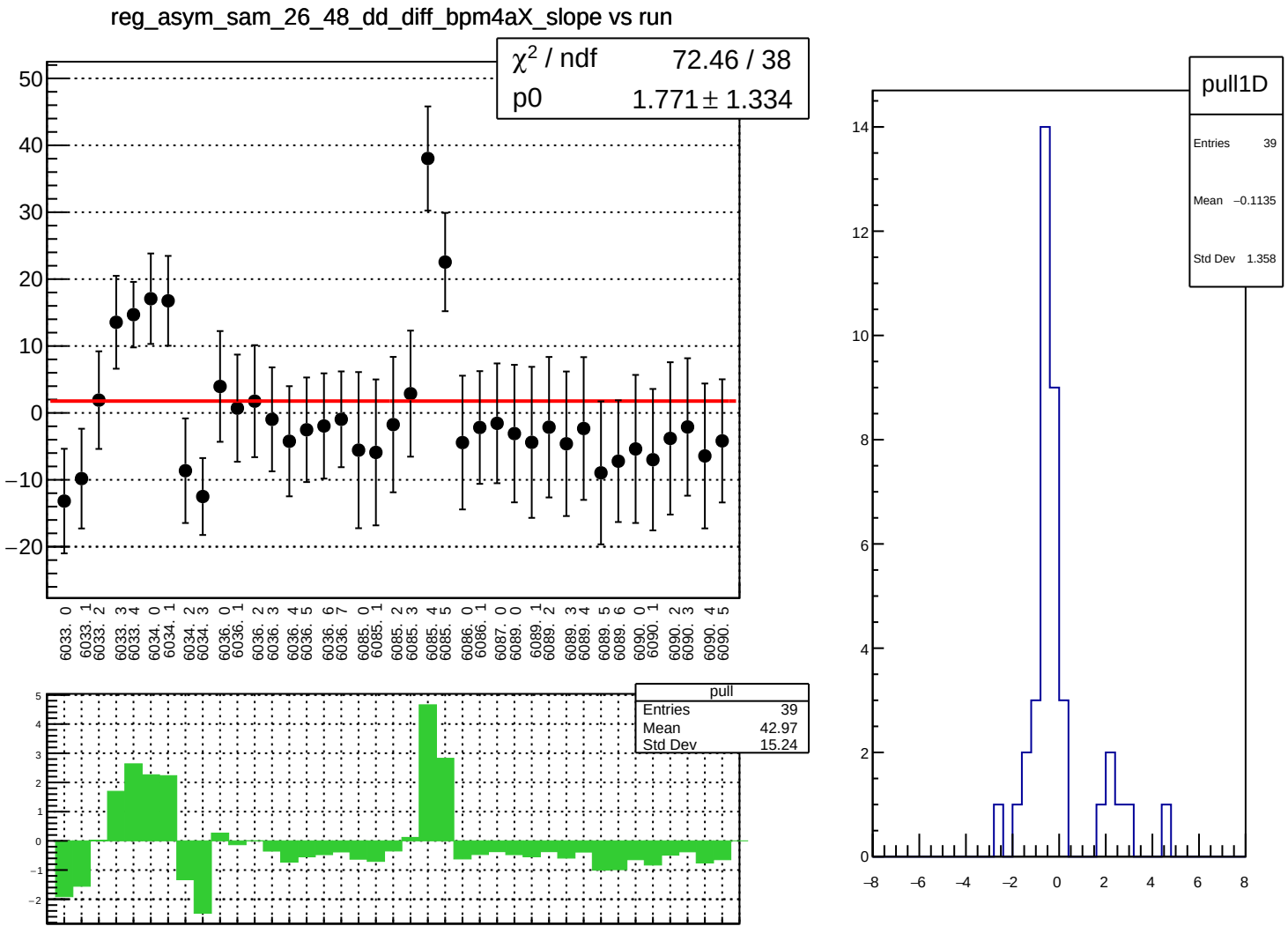

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.704 / 38
p0 −40.93 ± 3.476
pull
Entries 39
Mean 19.06
Std Dev 12.3

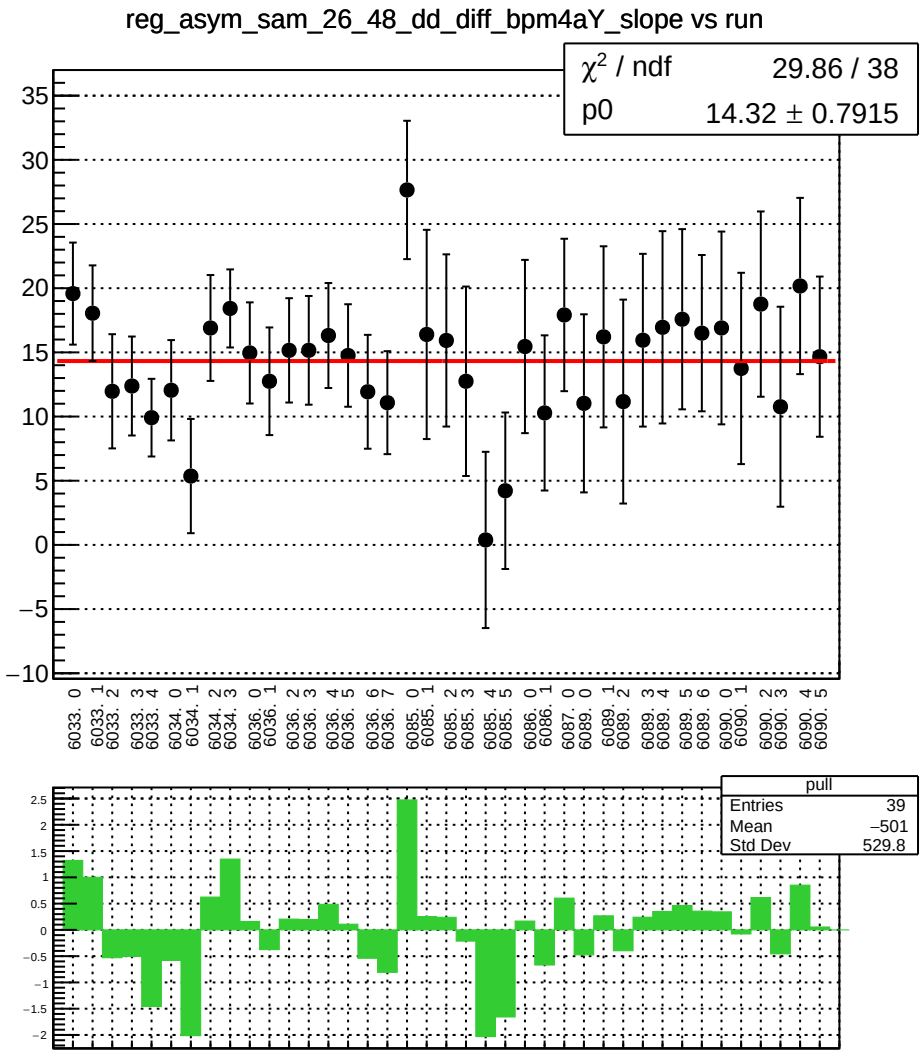

pull1D
Entries 39
Mean −0.03212
Std Dev 0.2614

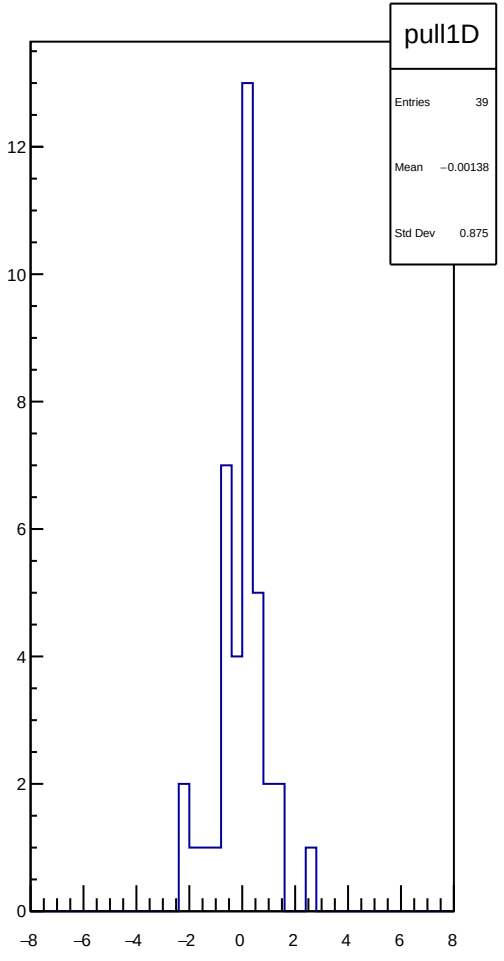

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.85 / 38
p0 −9.482 ± 2.067
pull
Entries 39
Mean 28.8
Std Dev 13.51

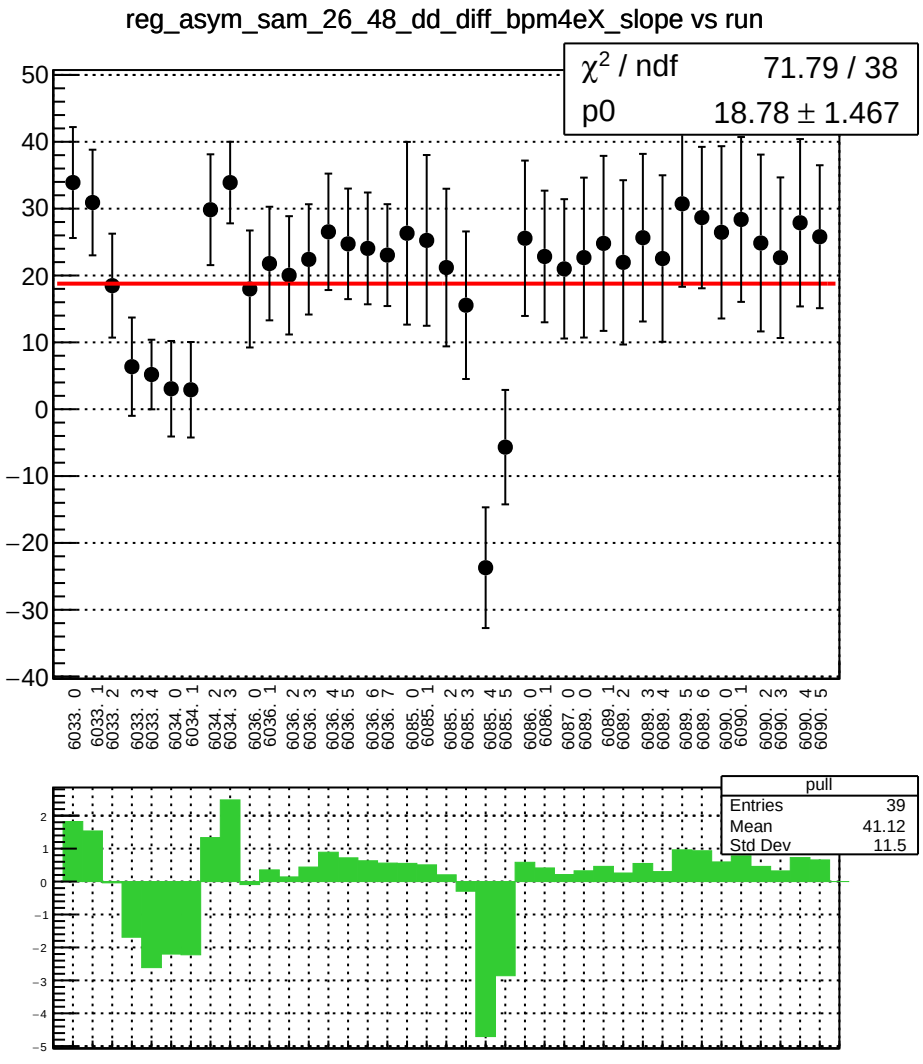

pull1D
Entries 39
Mean 0.01863
Std Dev 0.217

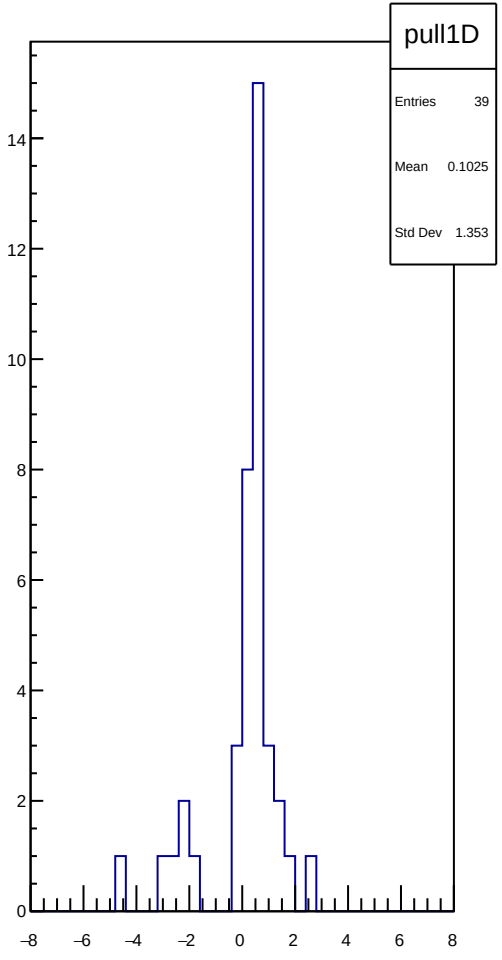

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7972 / 38
p0 −0.8916 ± 0.1582
pull
Entries 39
Mean −3.614
Std Dev 20.24
pull1D
Entries 39
Mean 0.01028
Std Dev 0.1426

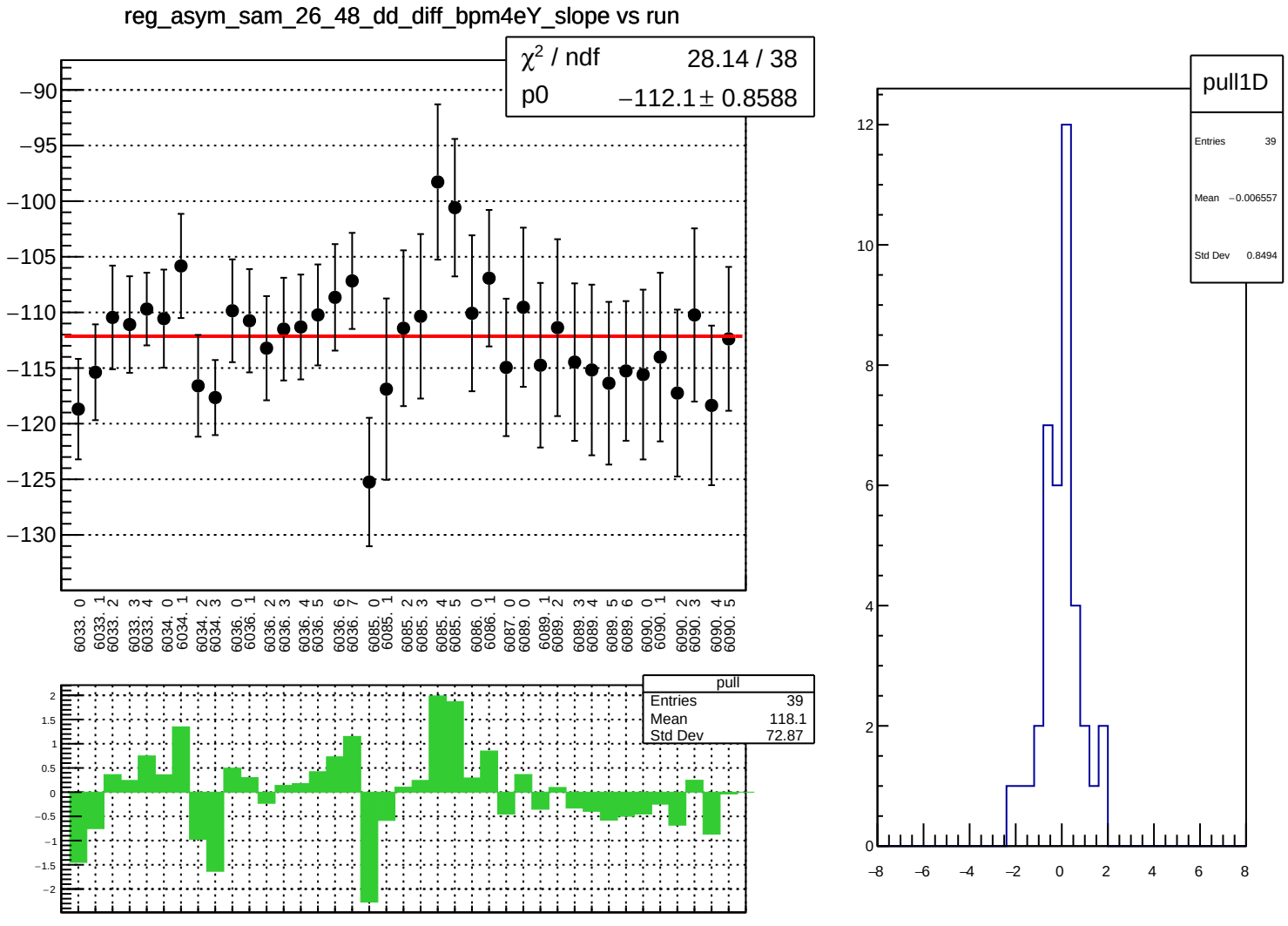

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 72.46 / 38
p0 1.771 ± 1.334
pull
Entries 39
Mean 42.97
Std Dev 15.24
pull1D
Entries 39
Mean −0.1135
Std Dev 1.358

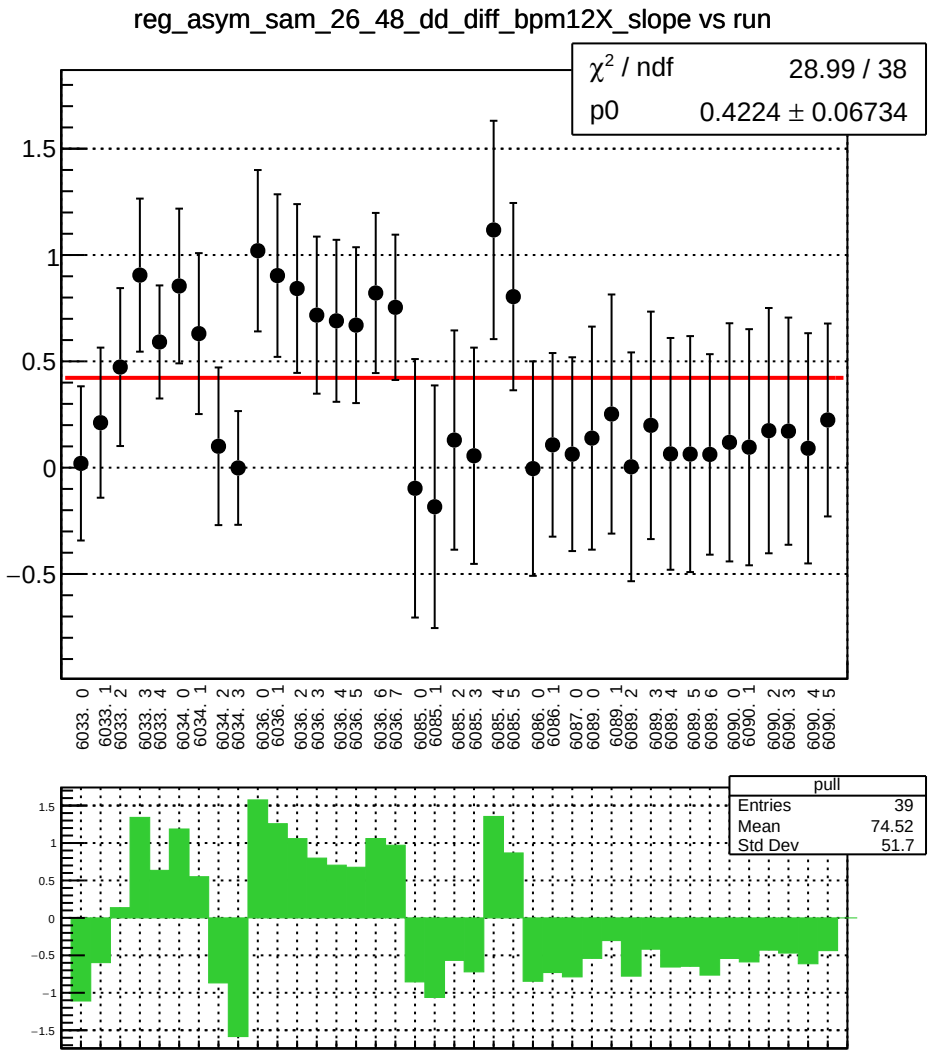

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.86 / 38
p0 14.32 ± 0.7915
pull
Entries 39
Mean −501
Std Dev 529.8

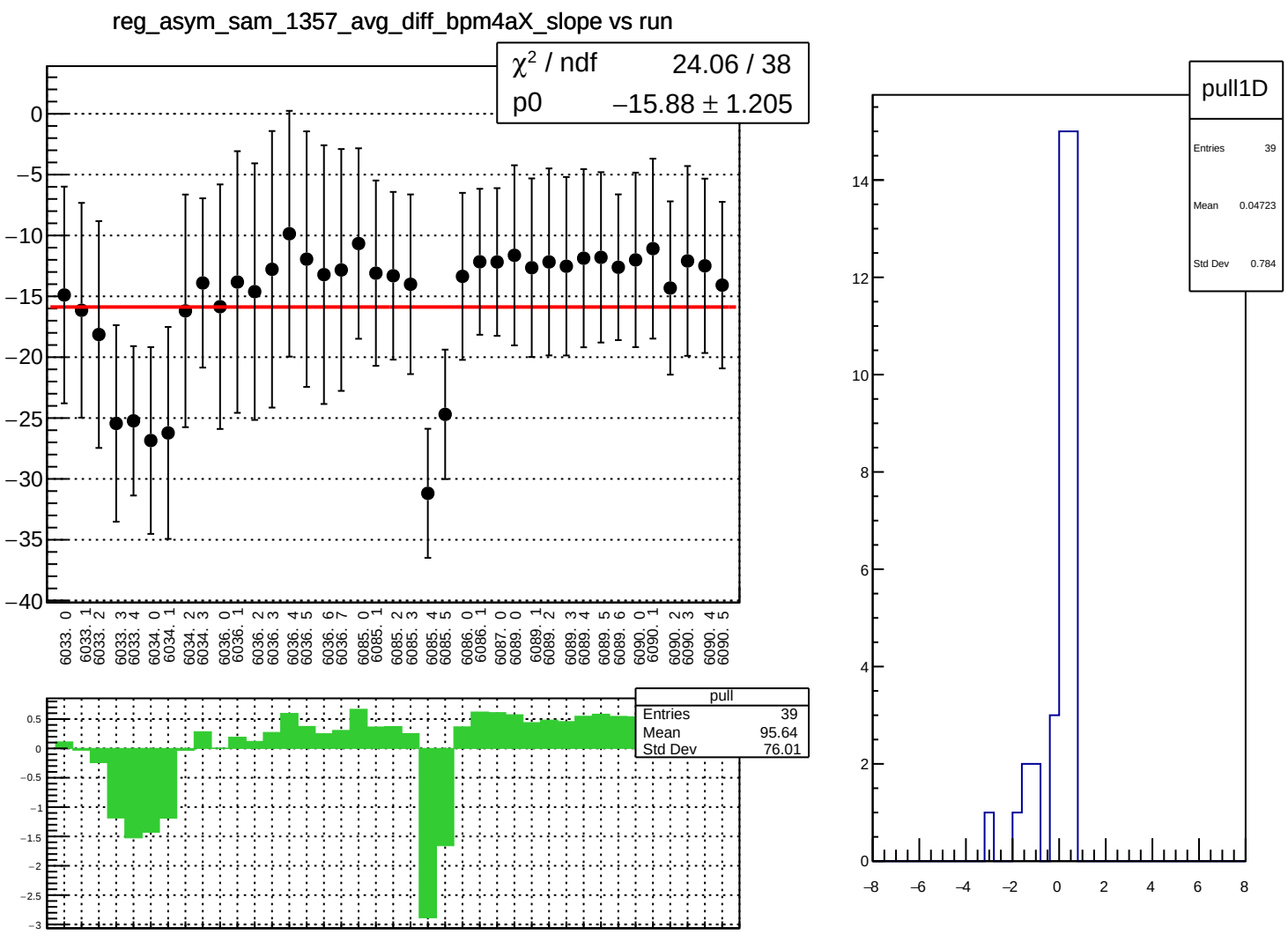

pull1D
Entries 39
Mean −0.00138
Std Dev 0.875

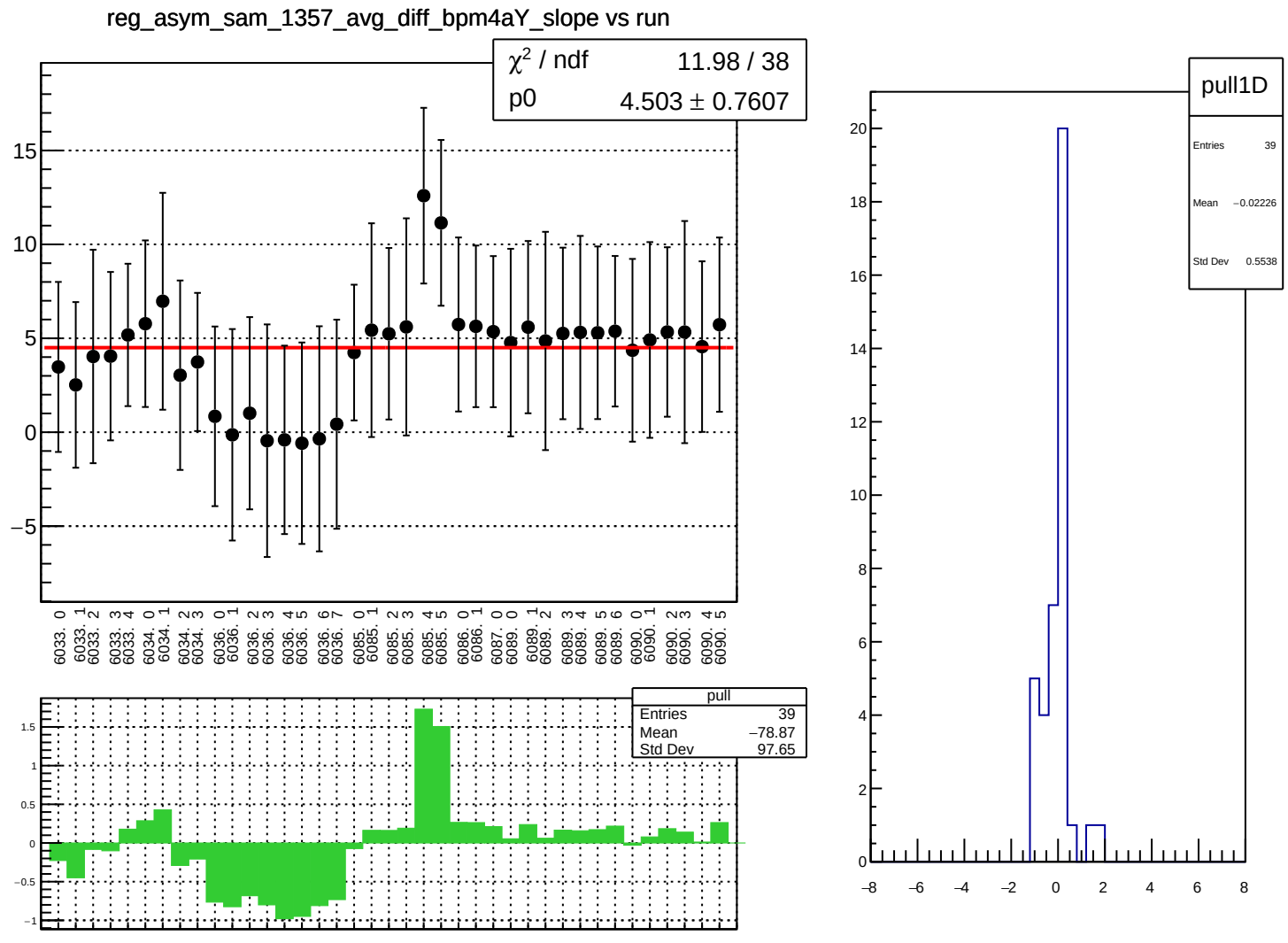

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.79 / 38
p0 18.78 ± 1.467
pull
Entries 39
Mean 41.12
Std Dev 11.5

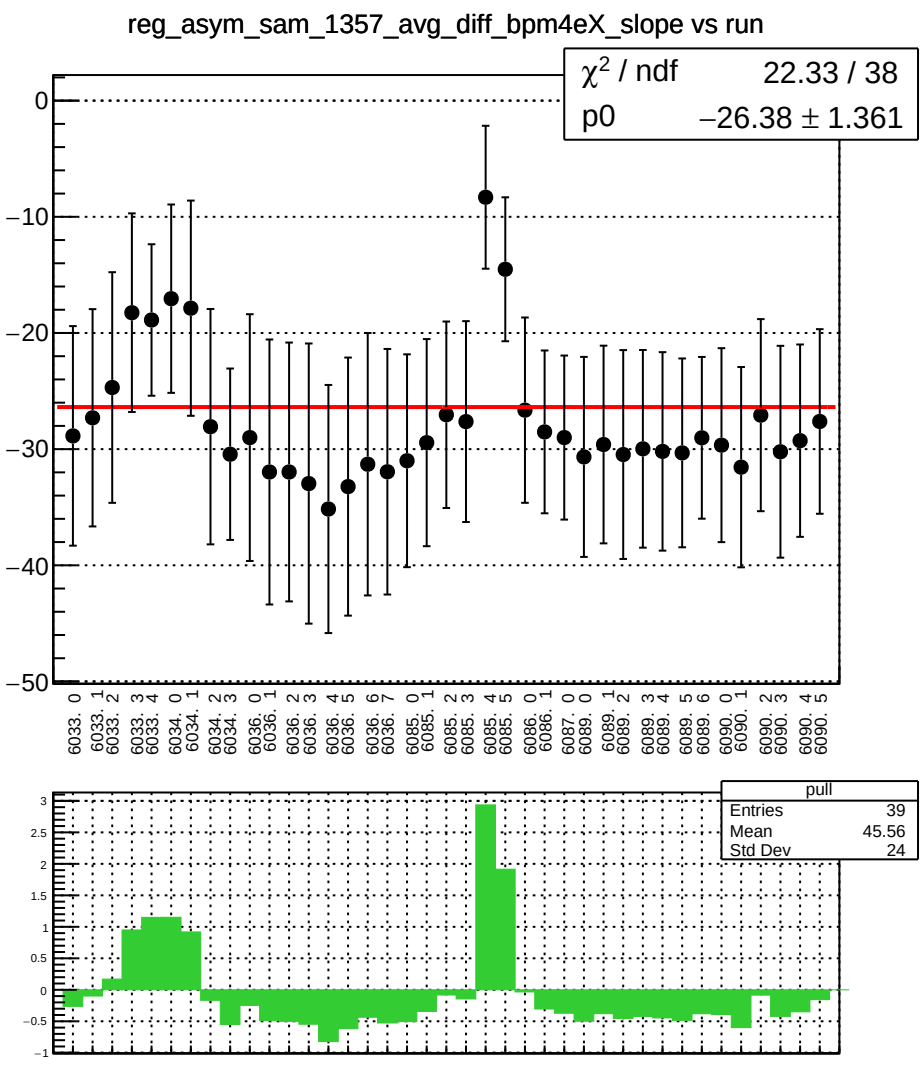

pull1D
Entries 39
Mean 0.1025
Std Dev 1.353

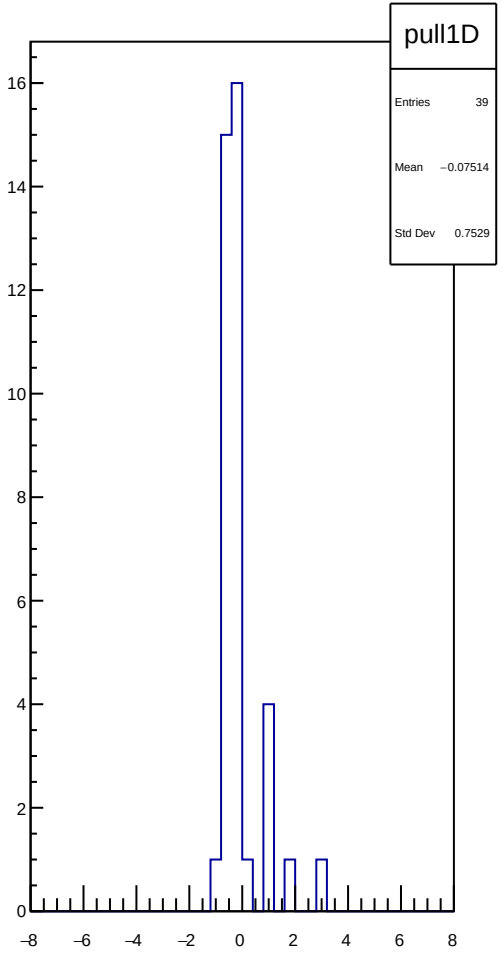

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.14 / 38
p0 −112.1 ± 0.8588
−90
−95
−100
−105
−110
−115
−120
−125
−130
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 118.1
Std Dev 72.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.006557
Std Dev 0.8494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

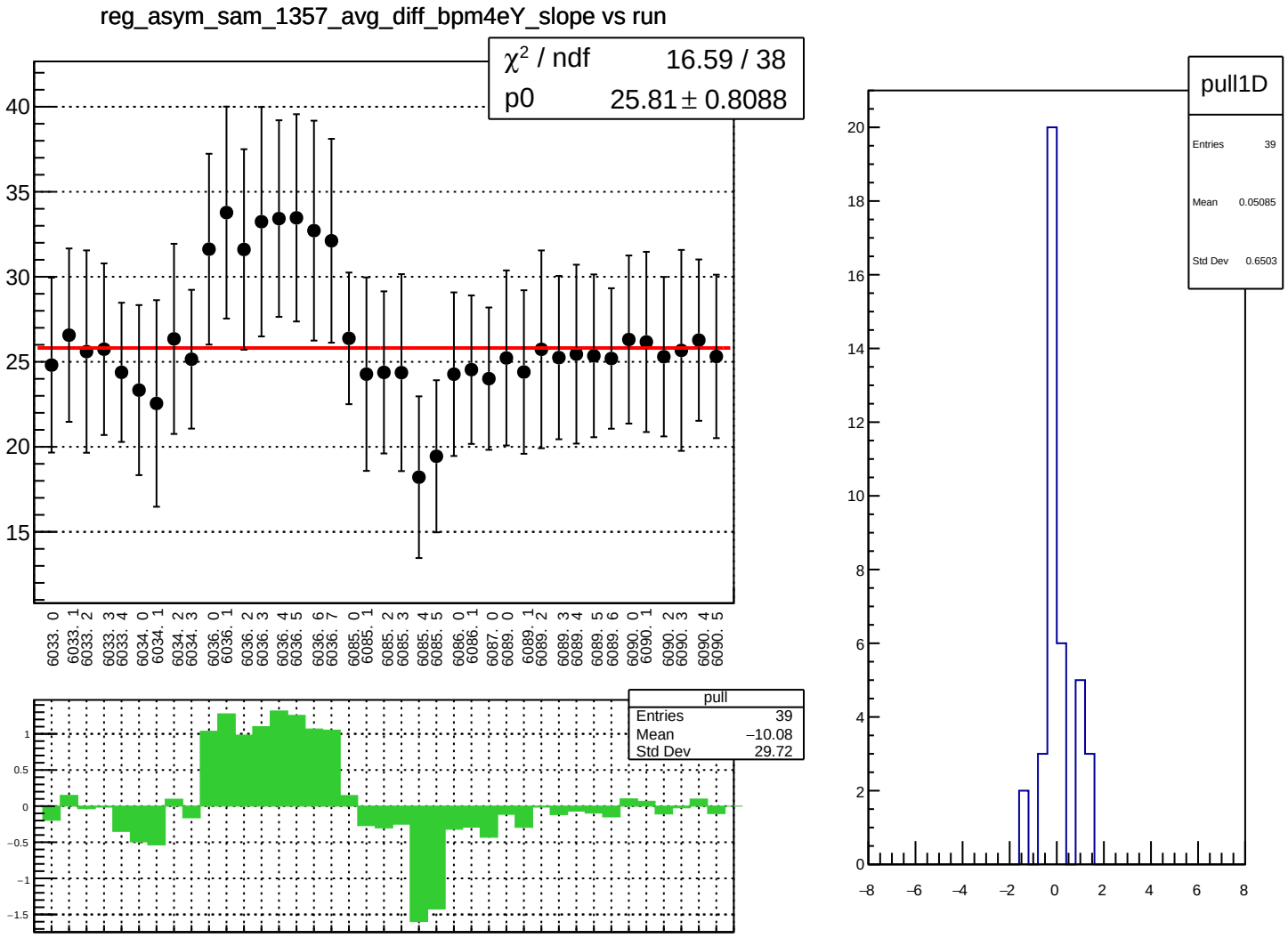

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 28.99 / 38
p0 0.4224 ± 0.06734
1.5
1
0.5
0
−0.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 74.52
Std Dev 51.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.07016
Std Dev 0.8593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

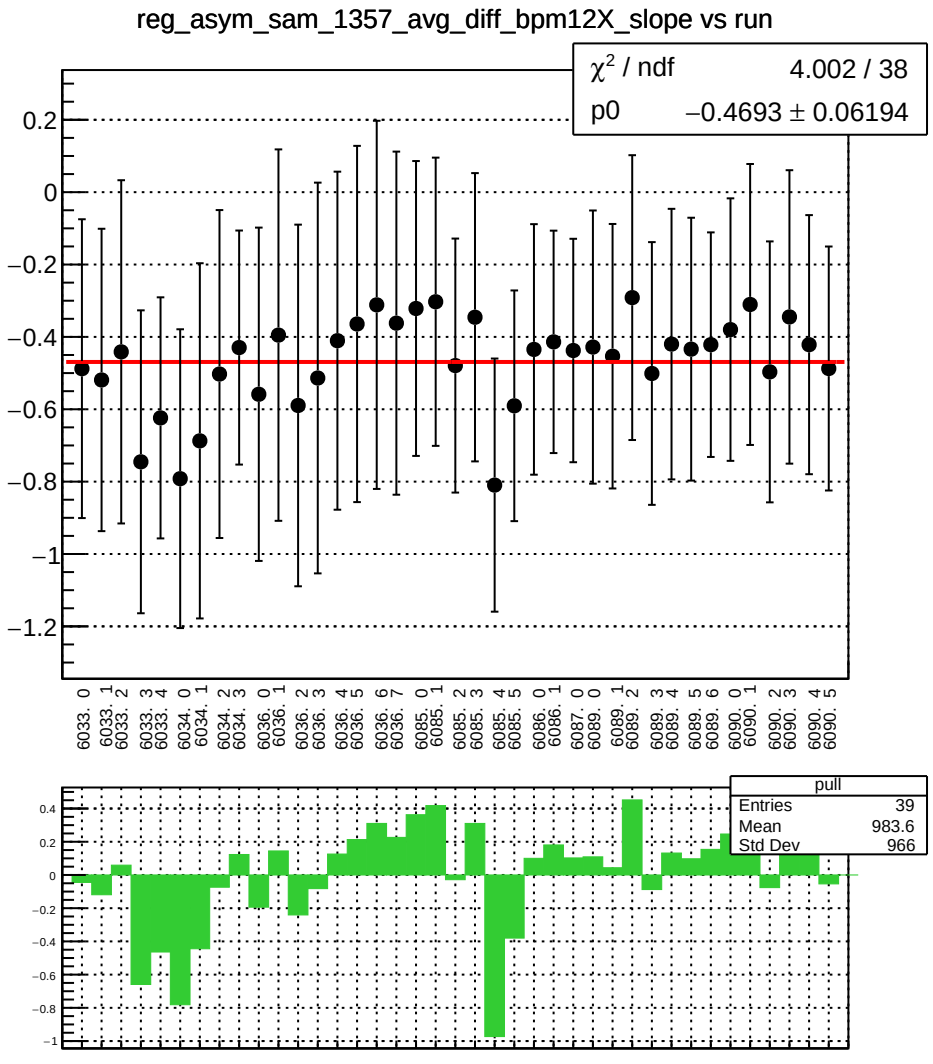

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.06 / 38
p0 −15.88 ± 1.205
pull
Entries 39
Mean 95.64
Std Dev 76.01
pull1D
Entries 39
Mean 0.04723
Std Dev 0.784

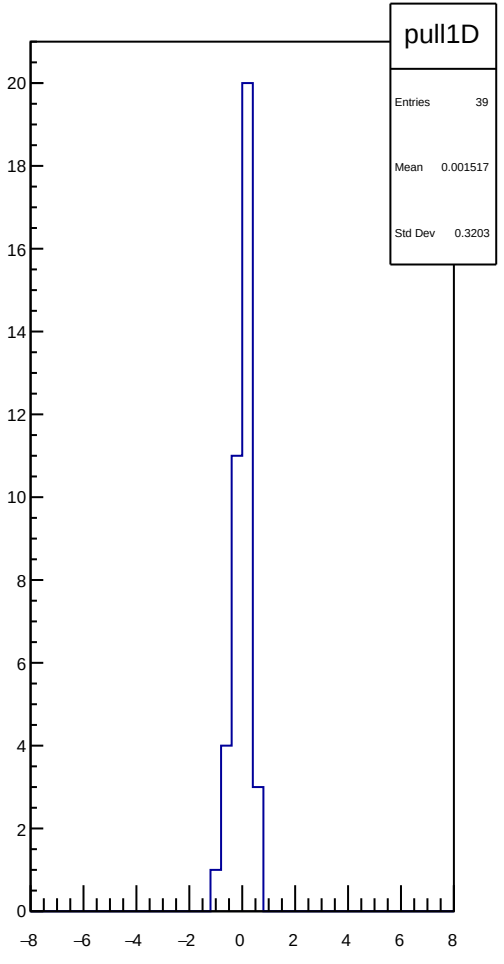

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.98 / 38
p0 4.503 ± 0.7607
pull
Entries 39
Mean −78.87
Std Dev 97.65
pull1D
Entries 39
Mean −0.02226
Std Dev 0.5538

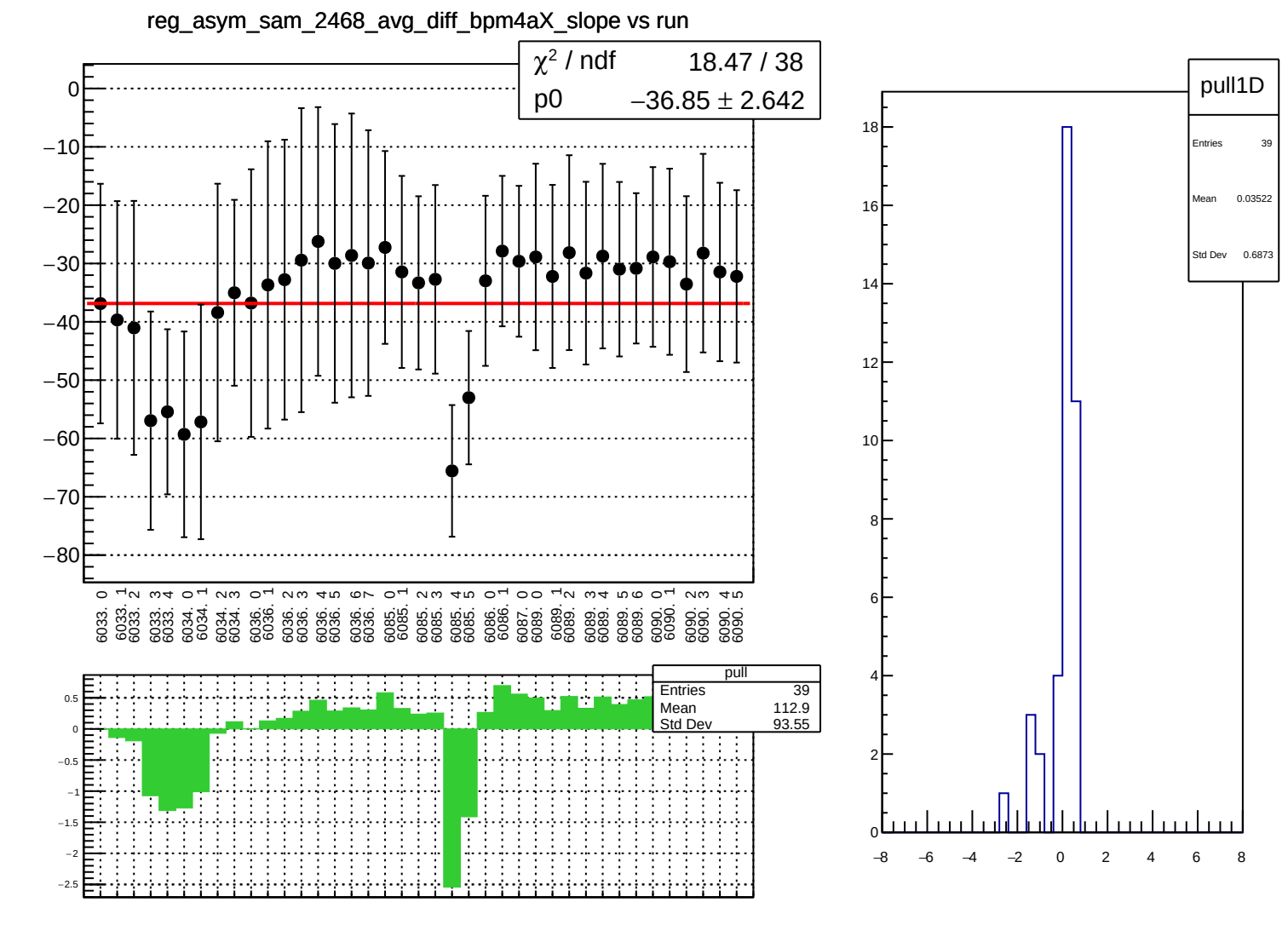

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.33 / 38
p0 −26.38 ± 1.361
pull
Entries 39
Mean 45.56
Std Dev 24

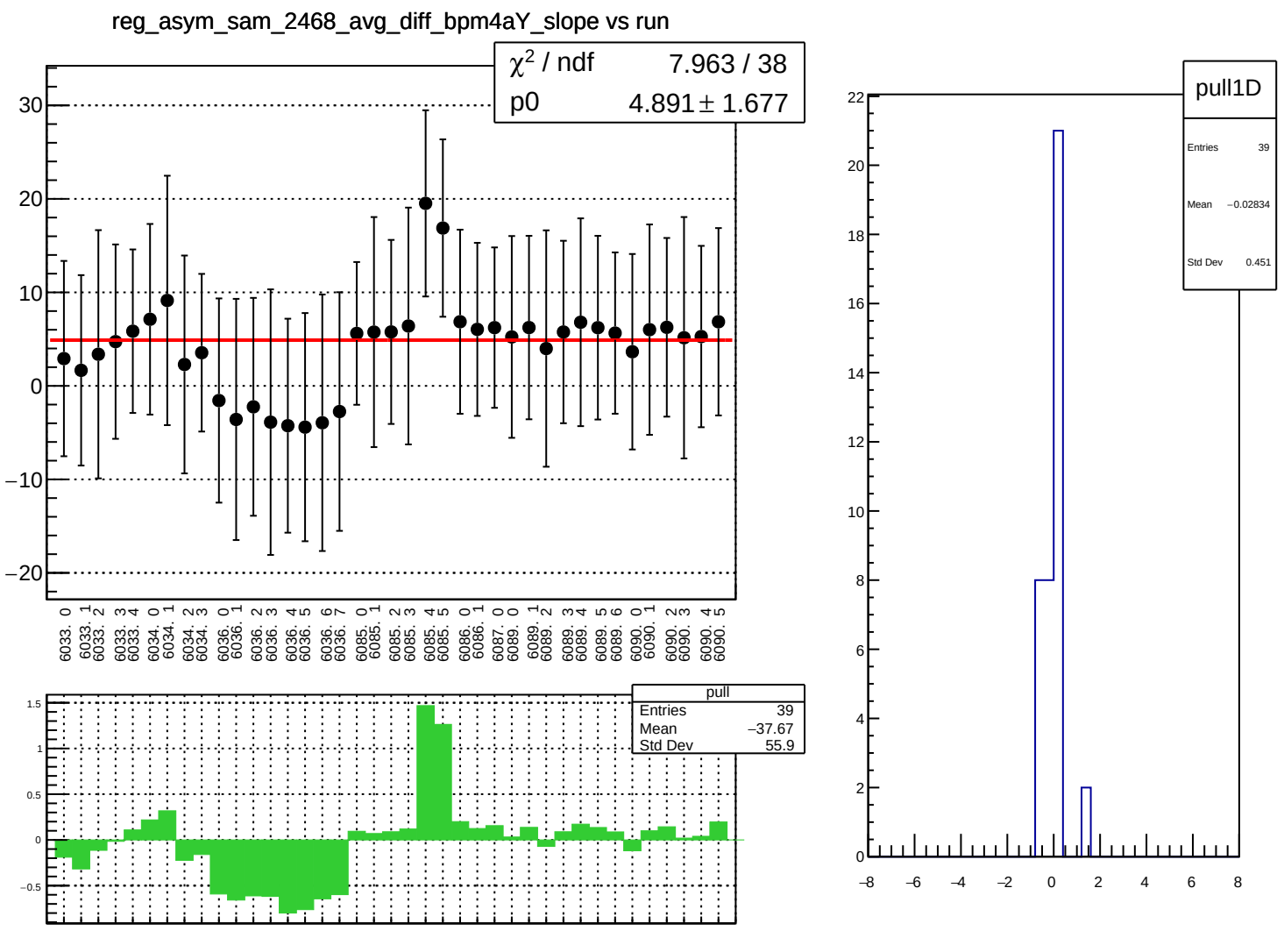

pull1D
Entries 39
Mean −0.07514
Std Dev 0.7529

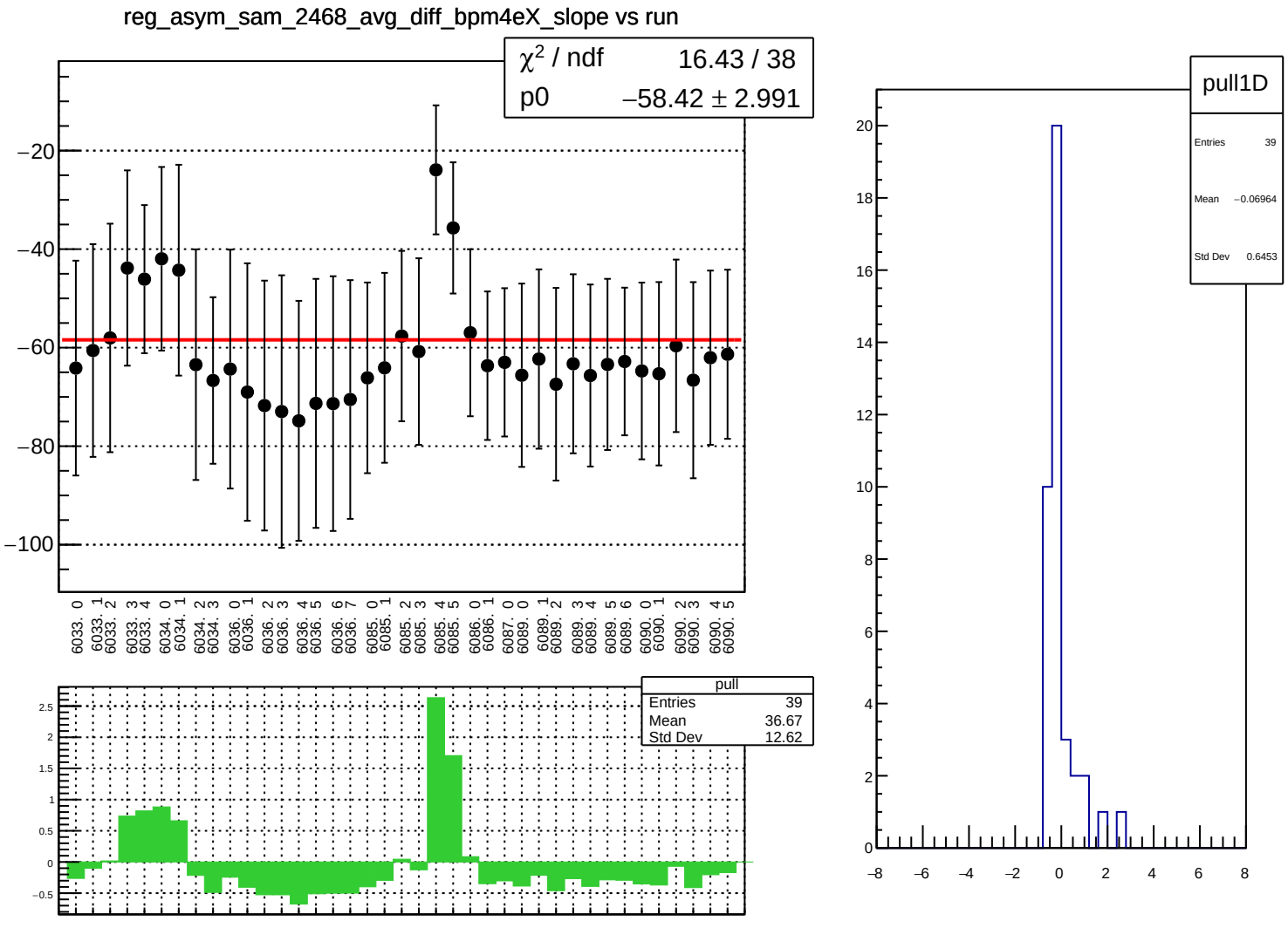

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.59 / 38
p0 25.81 ± 0.8088
40
35
30
25
20
15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −10.08
Std Dev 29.72
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.05085
Std Dev 0.6503
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

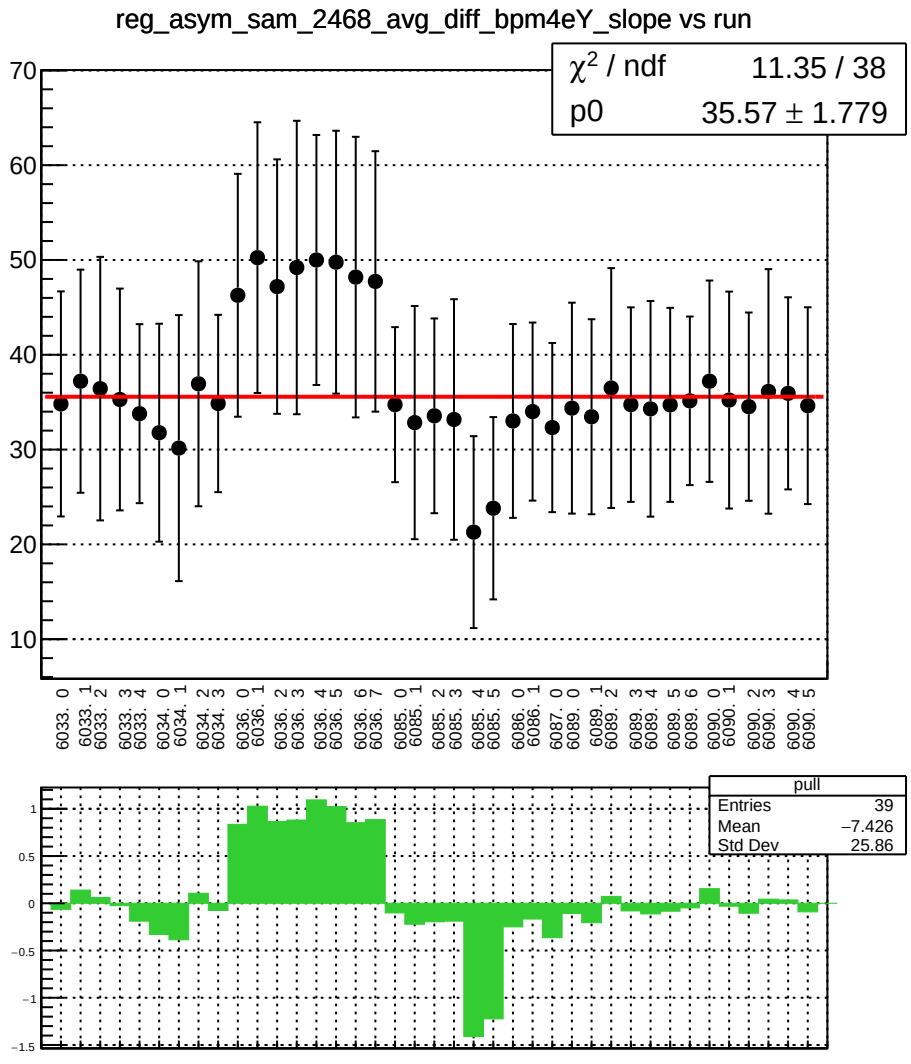

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 4.002 / 38
p0 −0.4693 ± 0.06194
pull
Entries 39
Mean 983.6
Std Dev 966

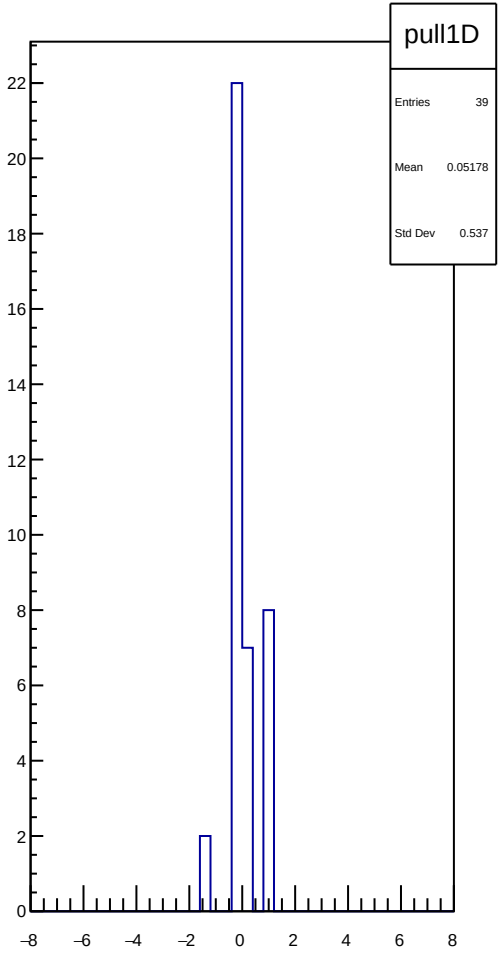

pull1D
Entries 39
Mean 0.001517
Std Dev 0.3203

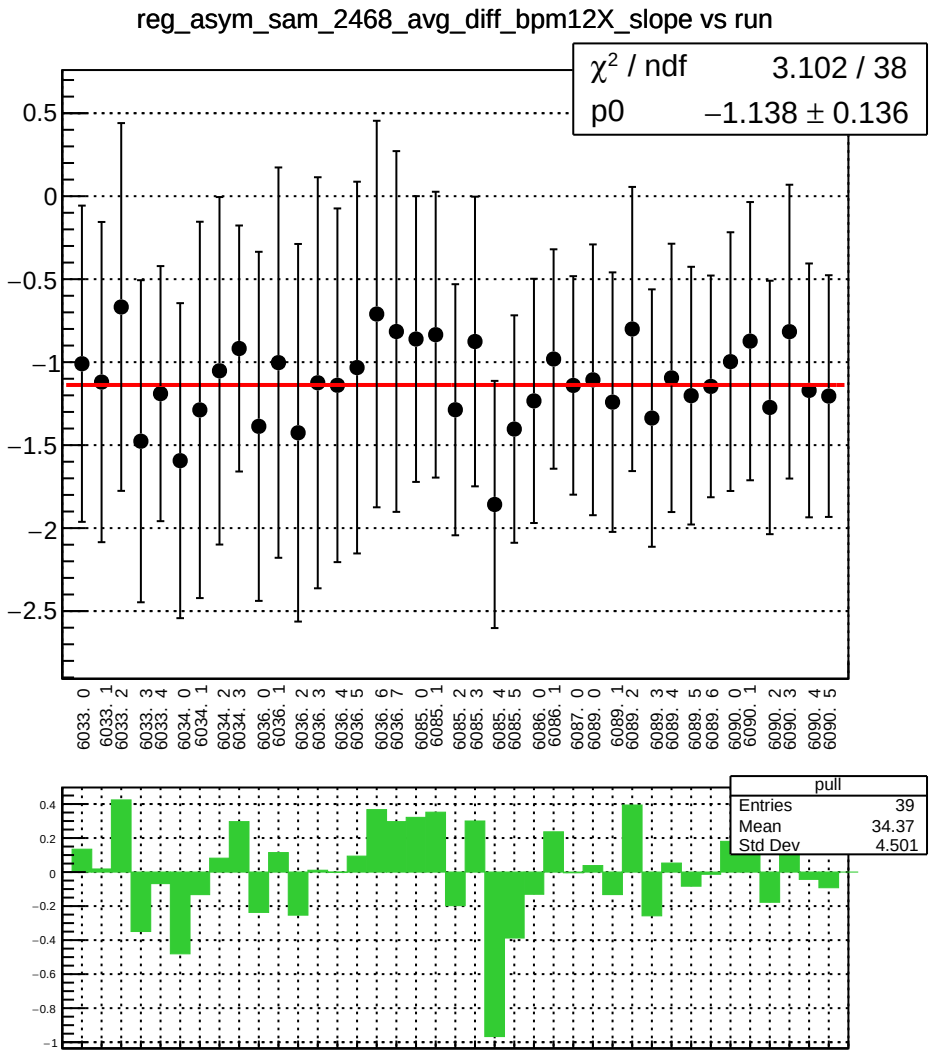

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.47 / 38
p0 −36.85 ± 2.642
pull
Entries 39
Mean 112.9
Std Dev 93.55
pull1D
Entries 39
Mean 0.03522
Std Dev 0.6873

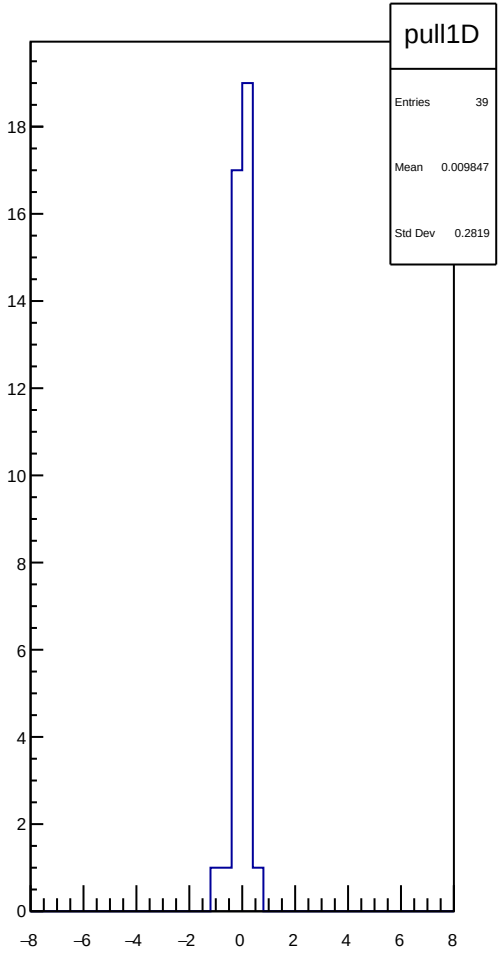

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.963 / 38
p0 4.891 ± 1.677
pull
Entries 39
Mean −37.67
Std Dev 55.9
pull1D
Entries 39
Mean −0.02834
Std Dev 0.451

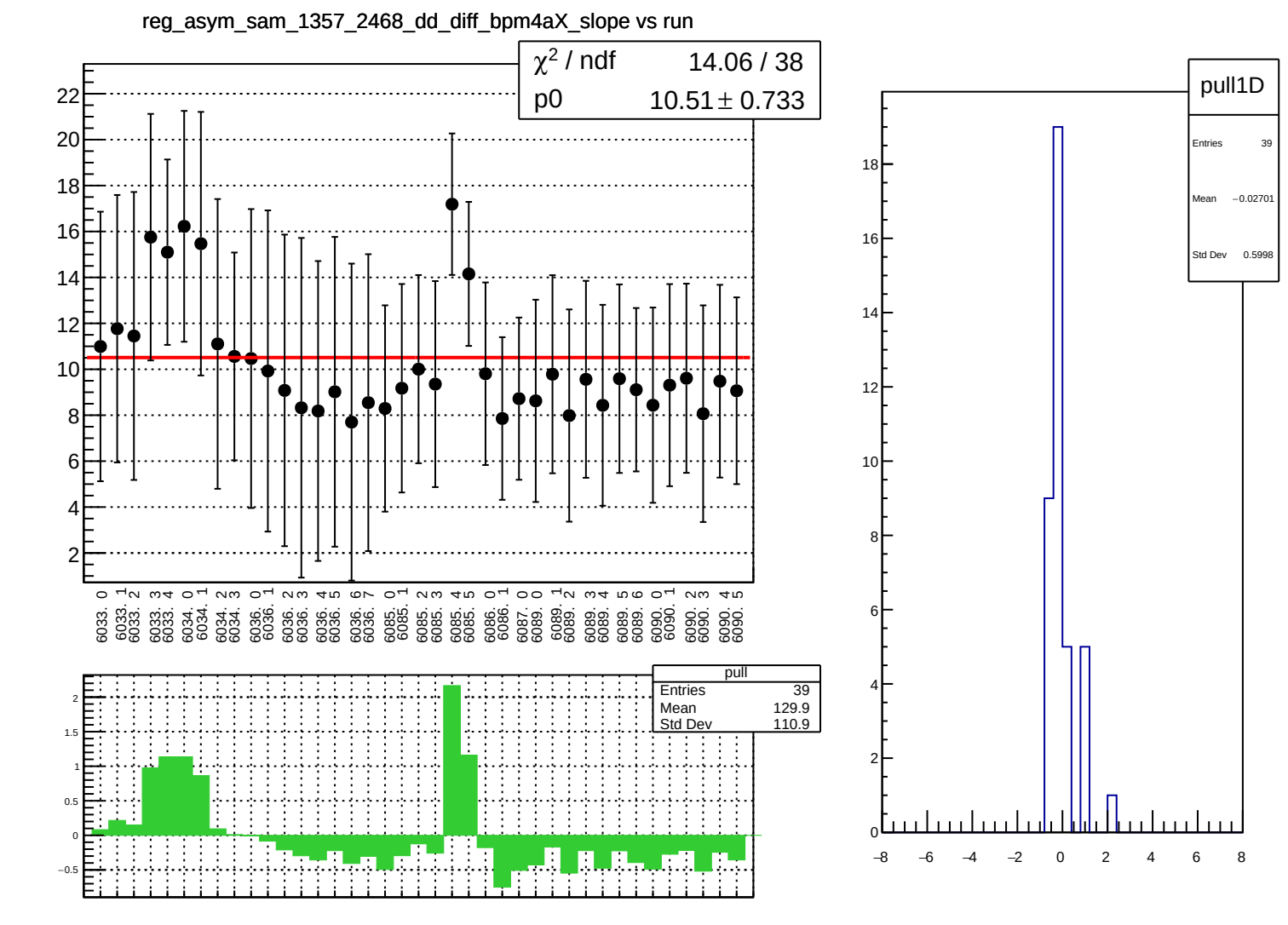

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.43 / 38
p0 −58.42 ± 2.991
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.67
Std Dev 12.62
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.06964
Std Dev 0.6453
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

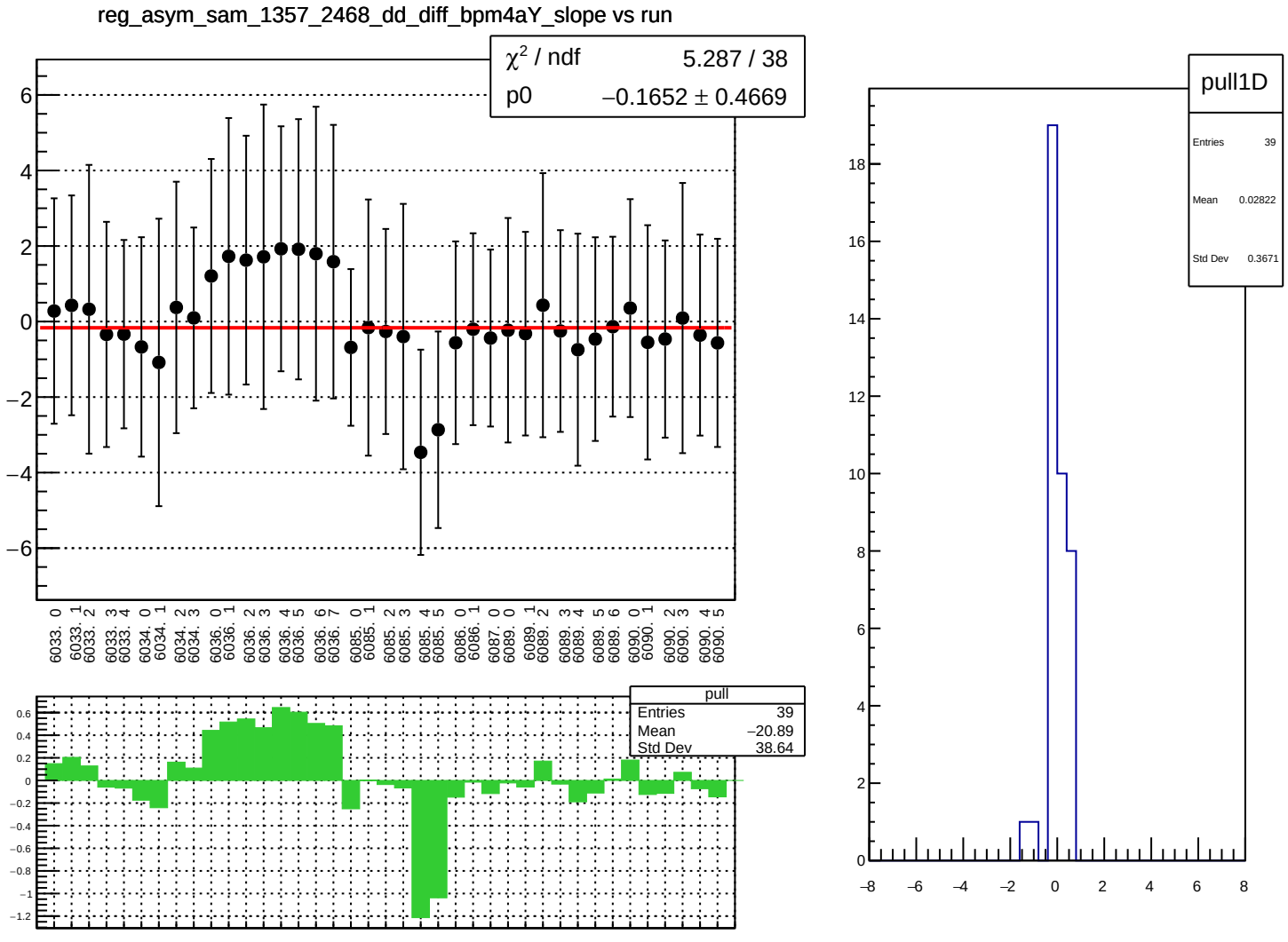

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.35 / 38
p0 35.57 ± 1.779
pull
Entries 39
Mean −7.426
Std Dev 25.86

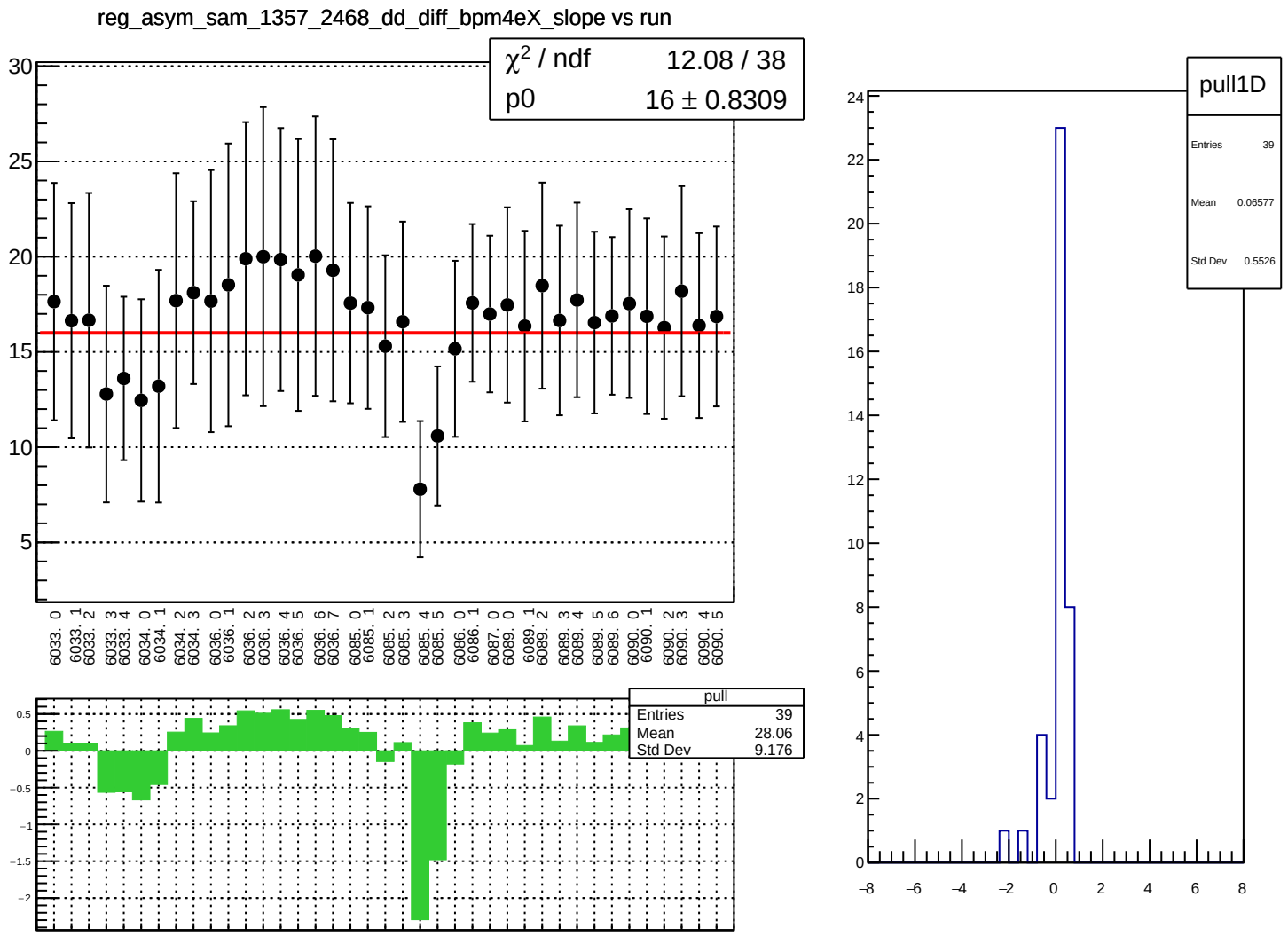

pull1D
Entries 39
Mean 0.05178
Std Dev 0.537

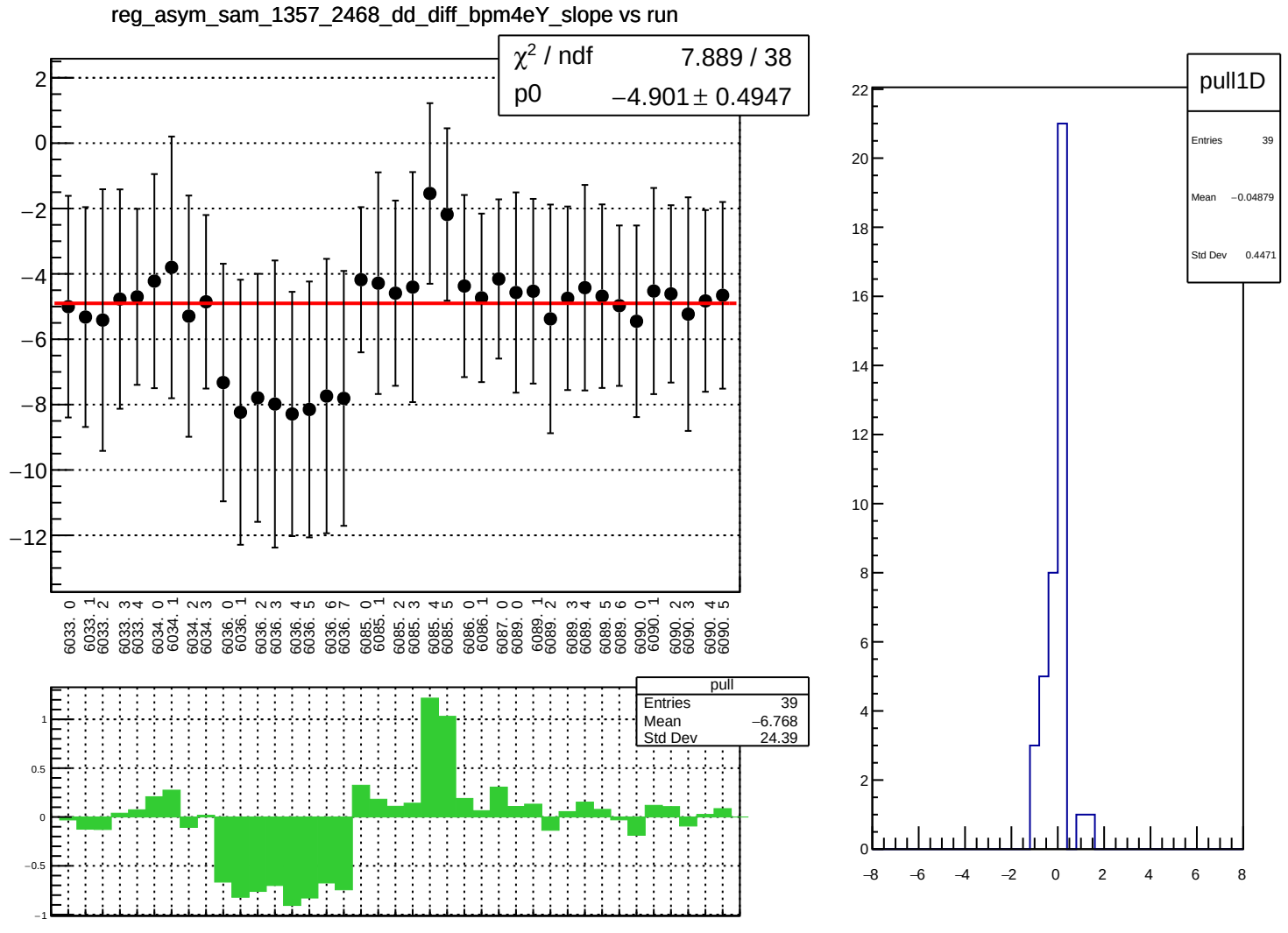

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.102 / 38
p0 −1.138 ± 0.136
pull
Entries 39
Mean 34.37
Std Dev 4.501

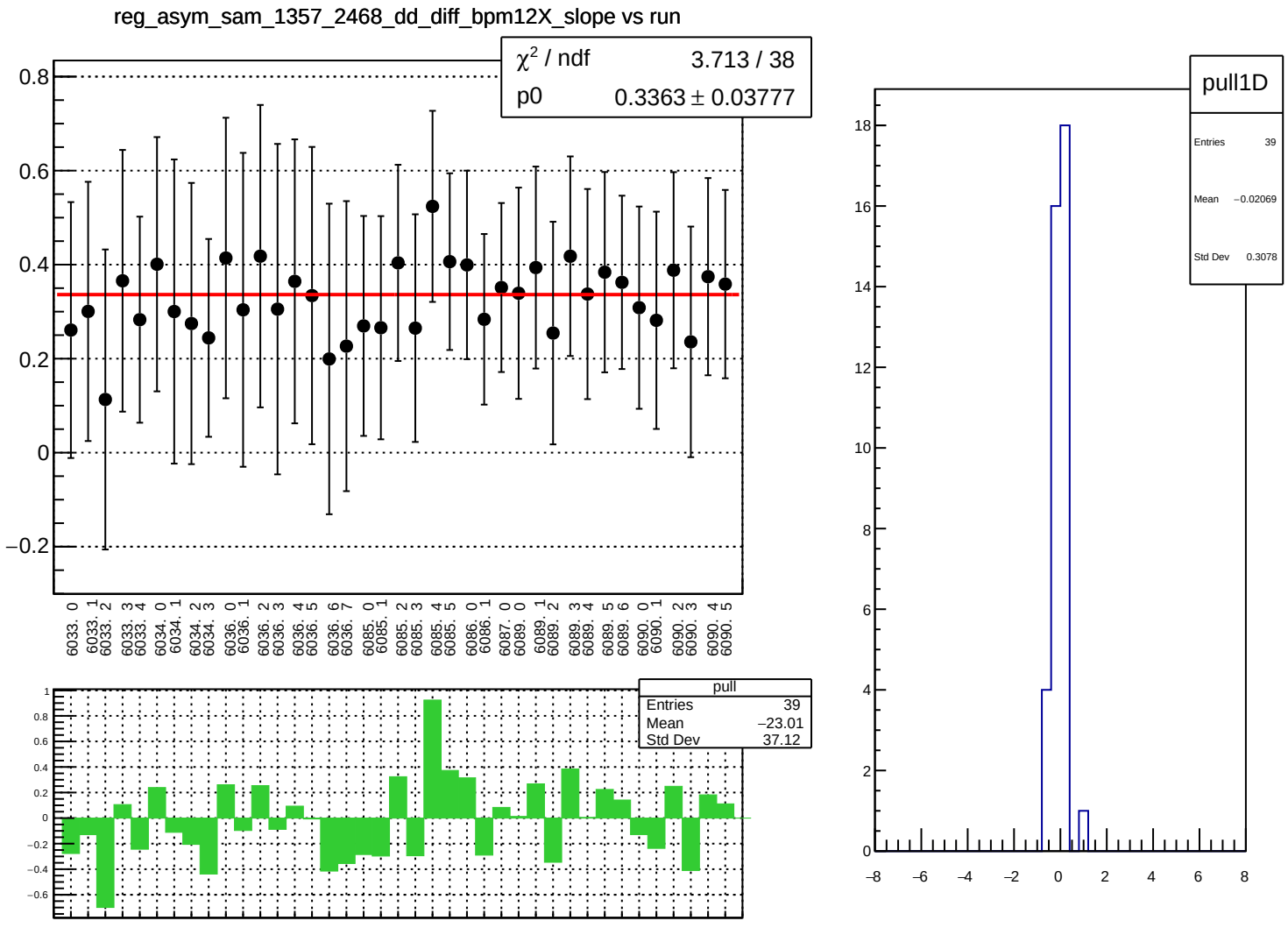

pull1D
Entries 39
Mean 0.009847
Std Dev 0.2819

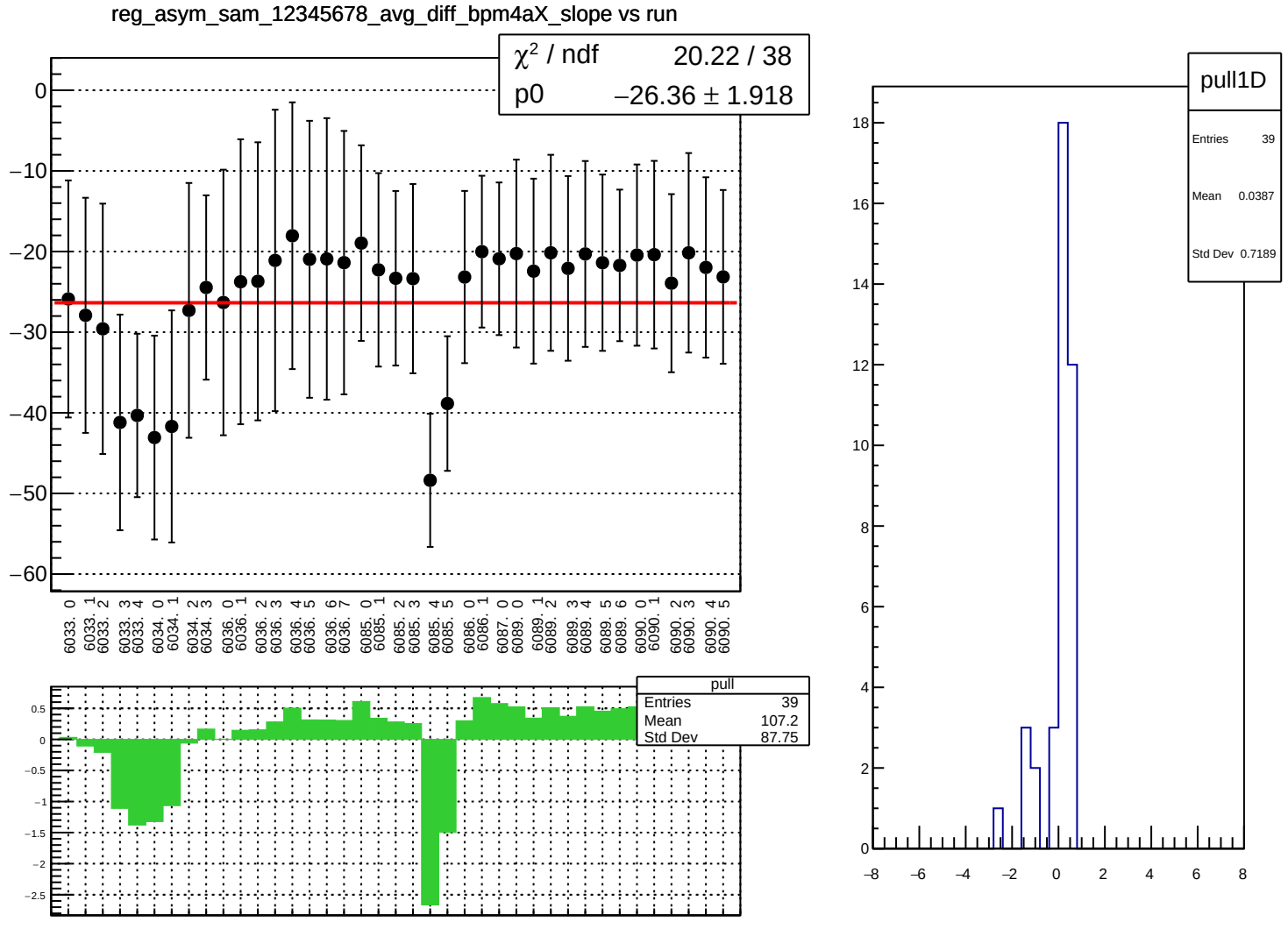

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.06 / 38
p0 10.51 ± 0.733
pull
Entries 39
Mean 129.9
Std Dev 110.9
pull1D
Entries 39
Mean −0.02701
Std Dev 0.5998

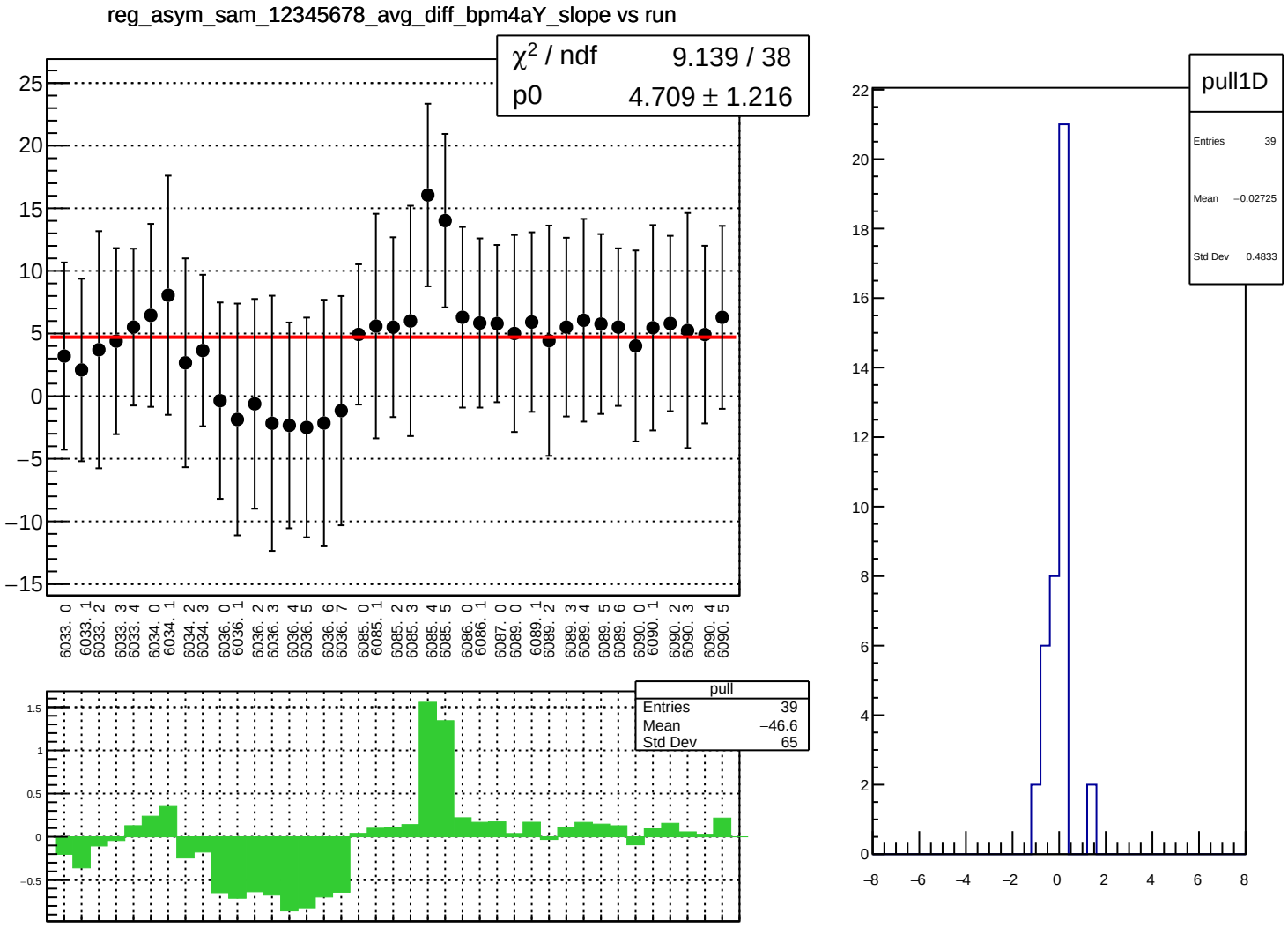

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.287 / 38
p0 −0.1652 ± 0.4669
pull
Entries 39
Mean −20.89
Std Dev 38.64
pull1D
Entries 39
Mean 0.02822
Std Dev 0.3671

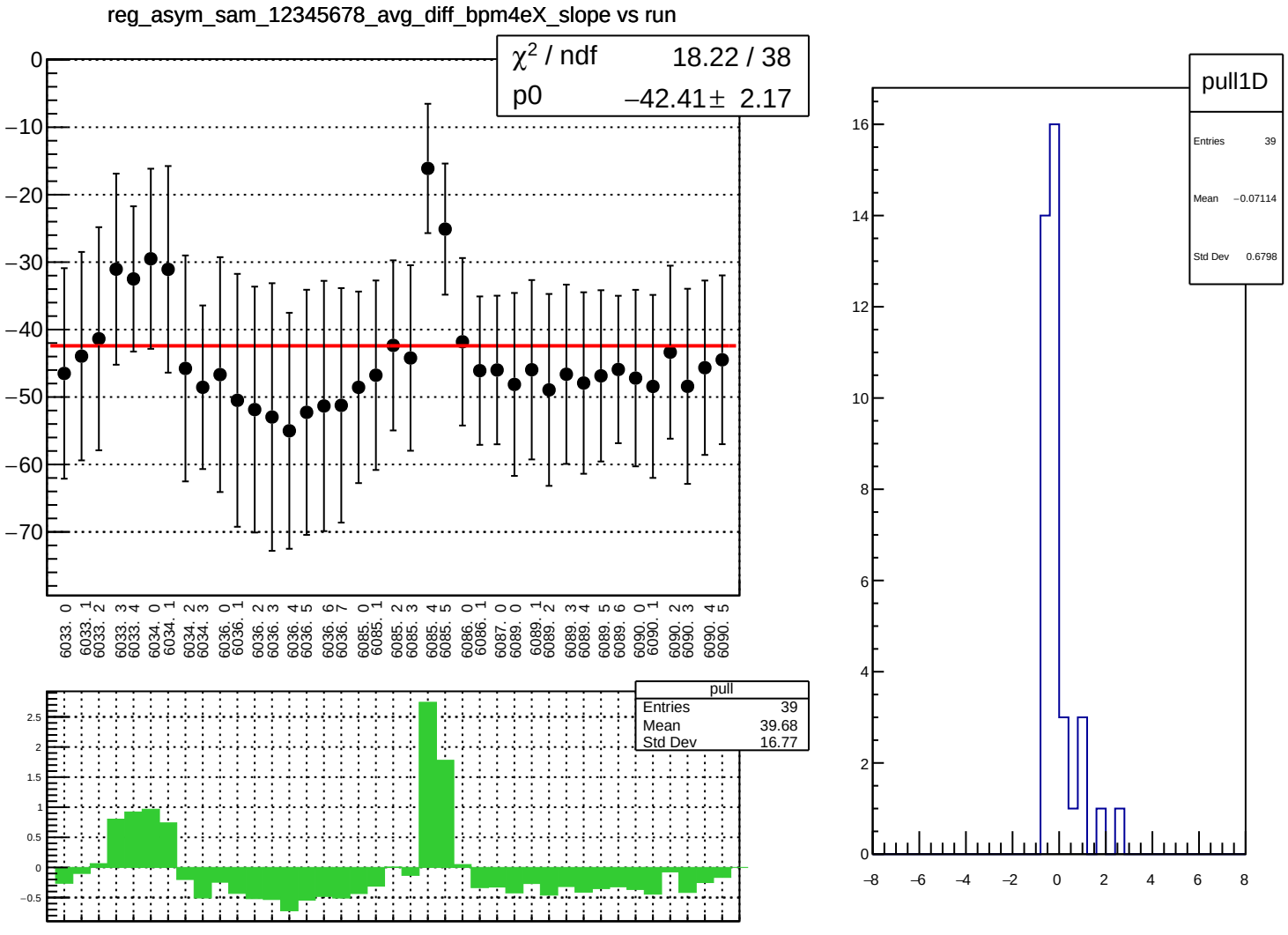

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.08 / 38
p0 16 ± 0.8309
pull
Entries 39
Mean 28.06
Std Dev 9.176
pull1D
Entries 39
Mean 0.06577
Std Dev 0.5526

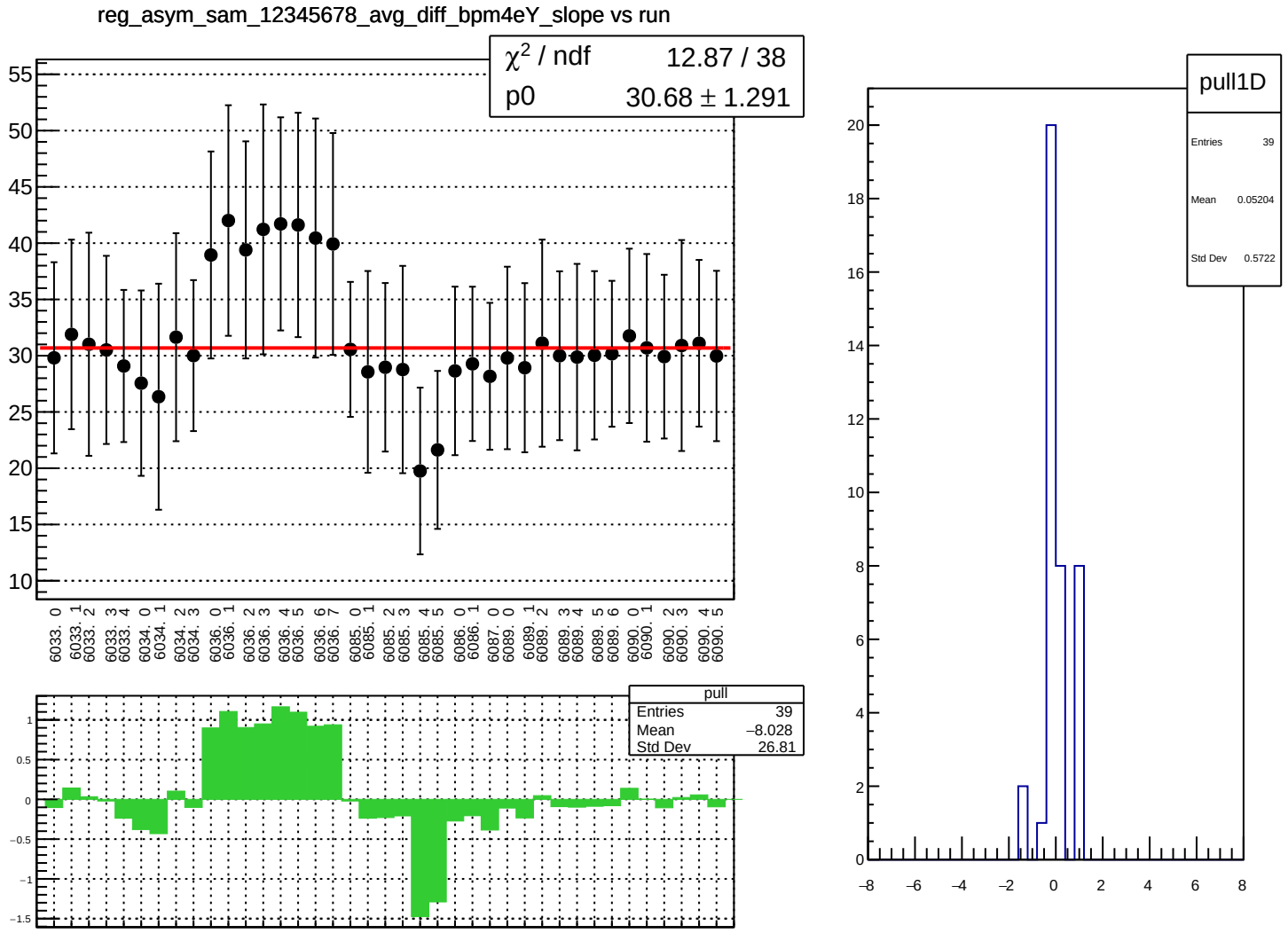

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.889 / 38
p0 −4.901 ± 0.4947
2
0
−2
−4
−6
−8
−10
−12
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −6.768
Std Dev 24.39
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.04879
Std Dev 0.4471
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

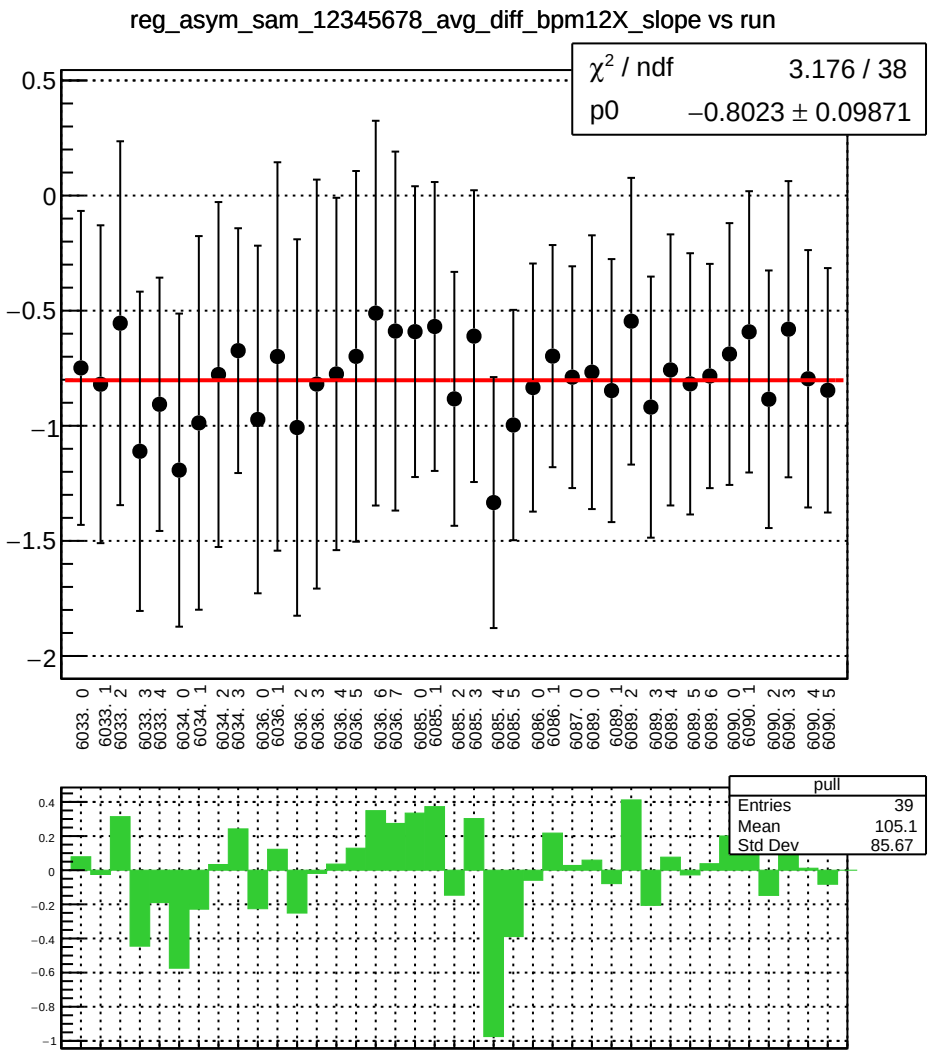

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.713 / 38
p0 0.3363 ± 0.03777
pull
Entries 39
Mean −23.01
Std Dev 37.12
pull1D
Entries 39
Mean −0.02069
Std Dev 0.3078

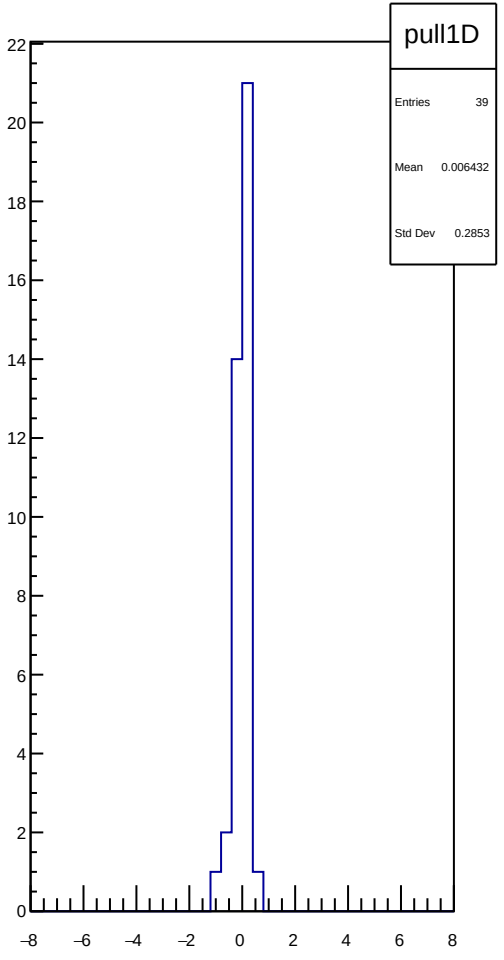

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.22 / 38
p0 −26.36 ± 1.918
0
−10
−20
−30
−40
−50
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 107.2
Std Dev 87.75
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.0387
Std Dev 0.7189
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

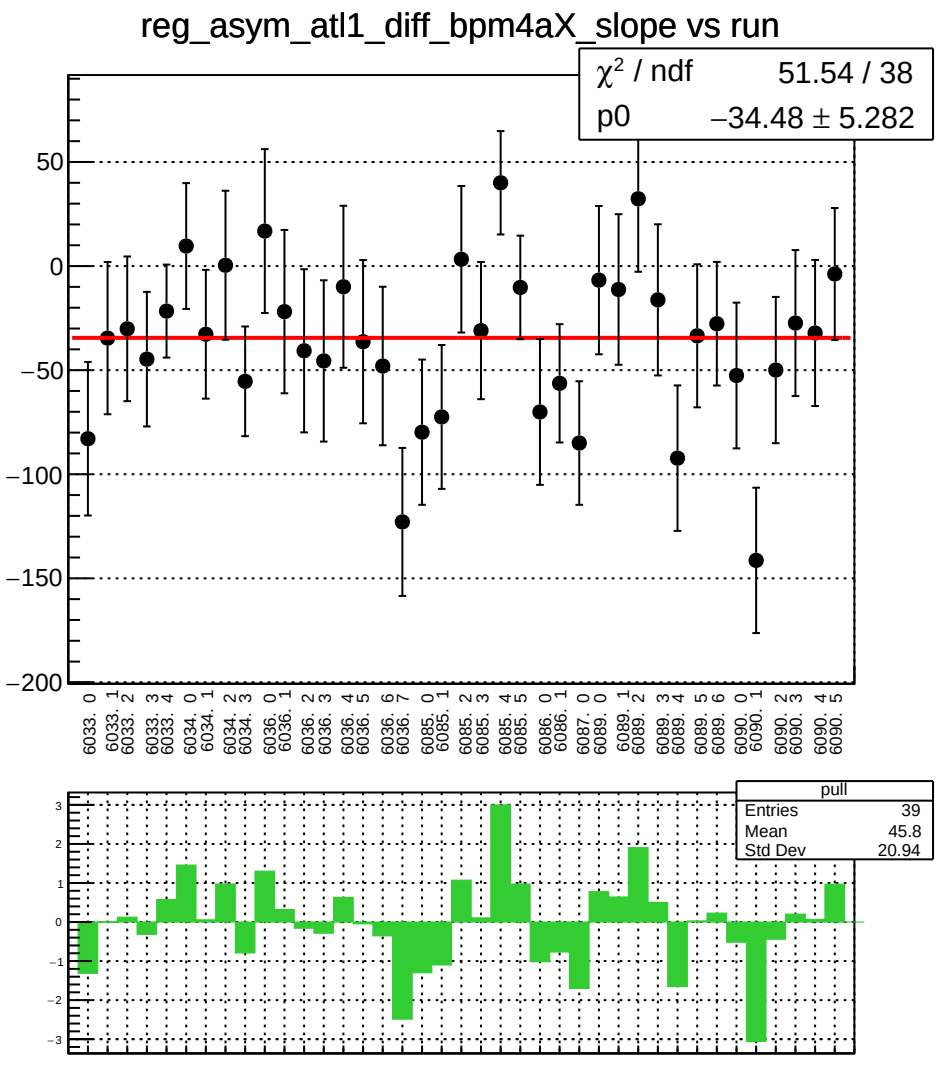

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.139 / 38
p0 4.709 ± 1.216
pull
Entries 39
Mean −46.6
Std Dev 65
pull1D
Entries 39
Mean −0.02725
Std Dev 0.4833

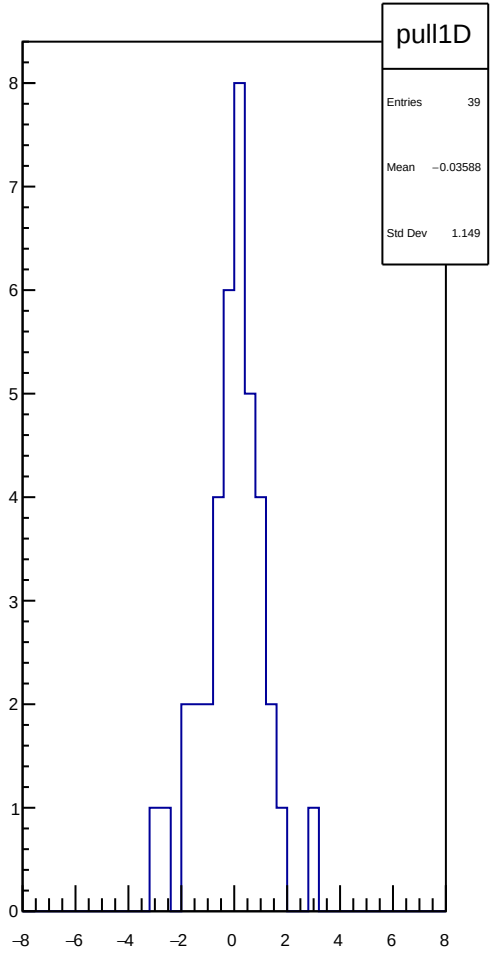

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.22 / 38
p0 −42.41 ± 2.17
0
−10
−20
−30
−40
−50
−60
−70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 39.68
Std Dev 16.77
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.07114
Std Dev 0.6798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

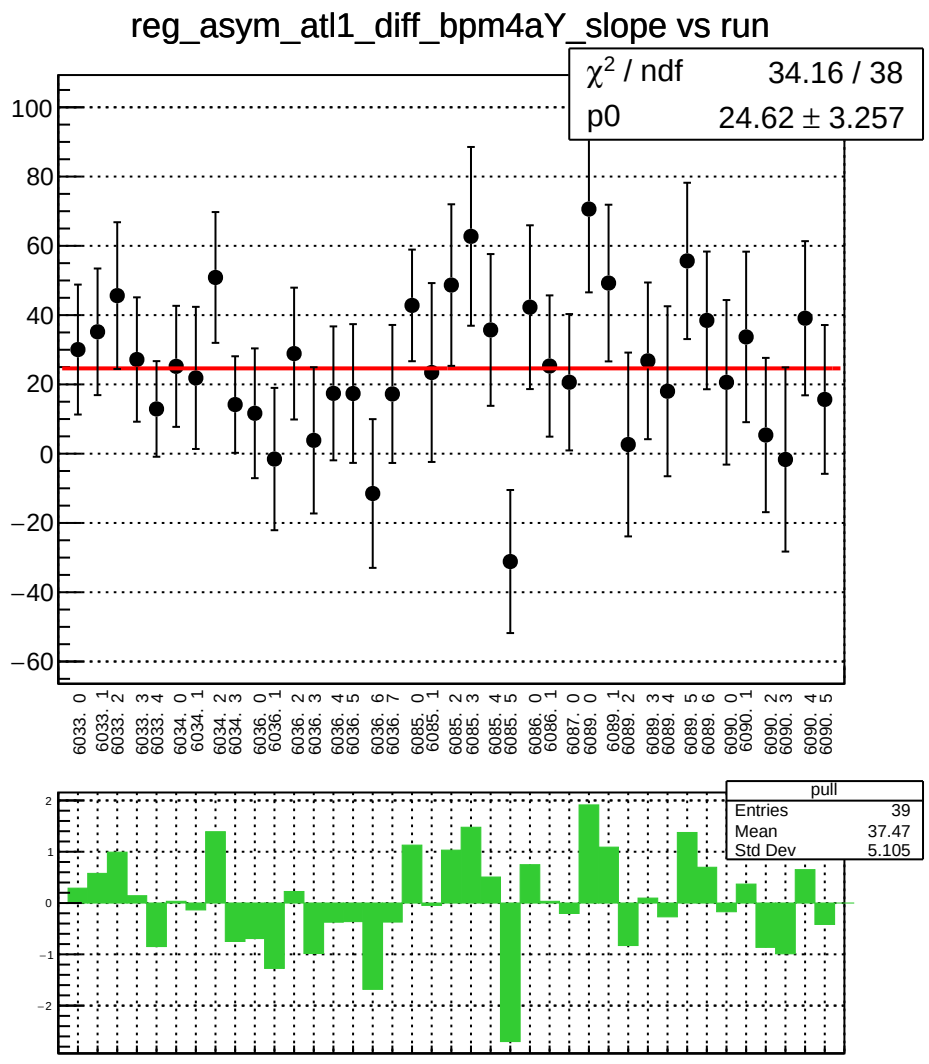

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.87 / 38
p0 30.68 ± 1.291
pull
Entries 39
Mean −8.028
Std Dev 26.81
pull1D
Entries 39
Mean 0.05204
Std Dev 0.5722

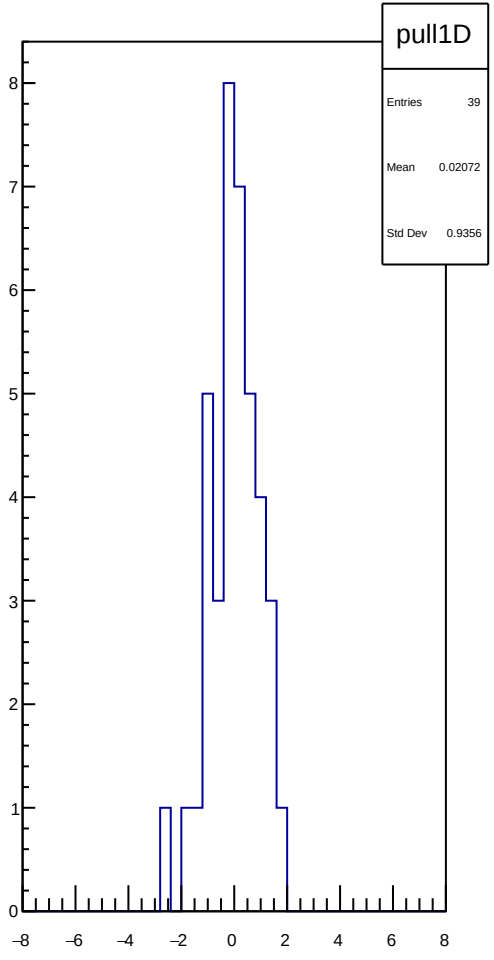

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.176 / 38
p0 −0.8023 ± 0.09871
pull
Entries 39
Mean 105.1
Std Dev 85.67

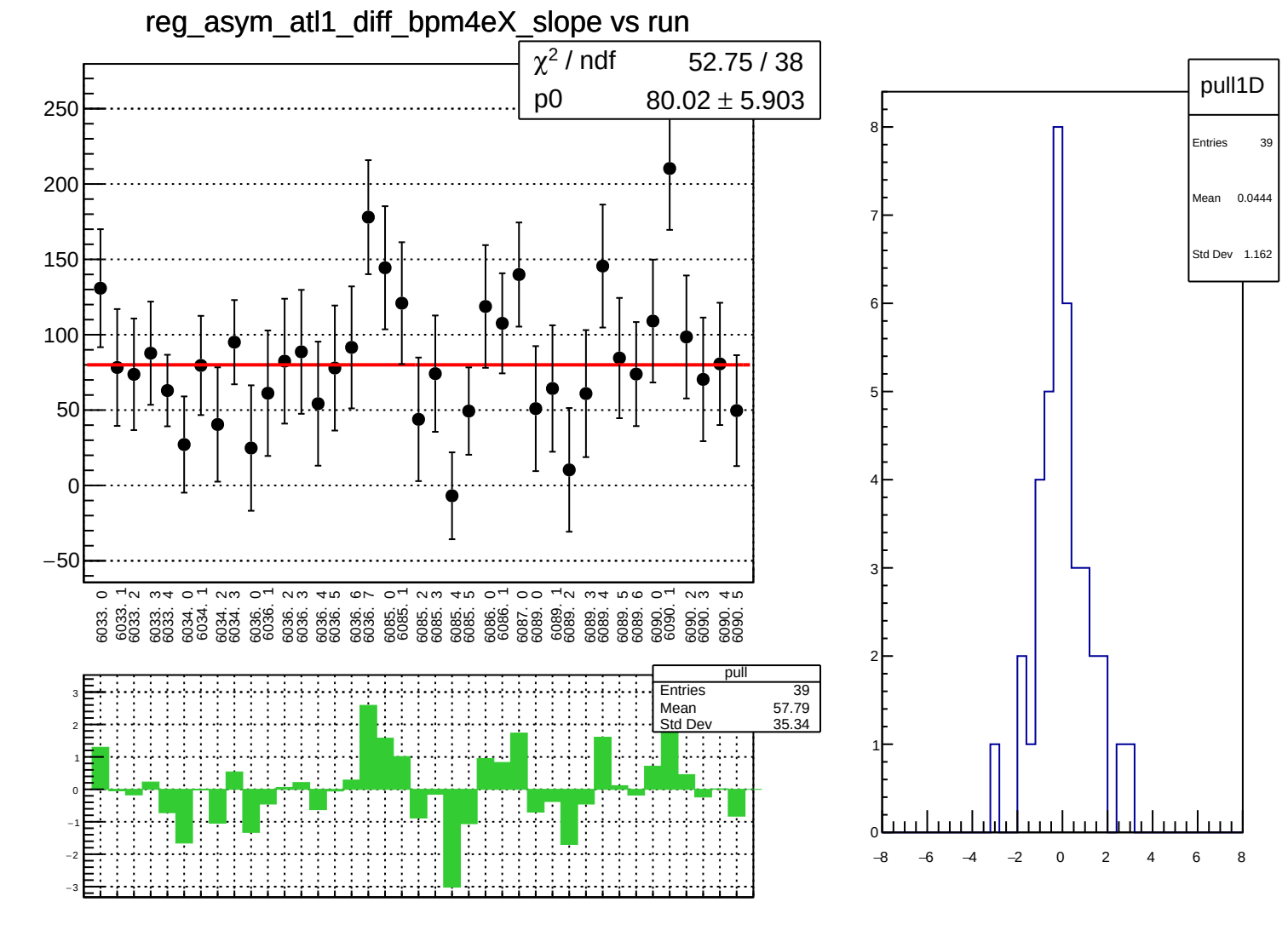

pull1D
Entries 39
Mean 0.006432
Std Dev 0.2853

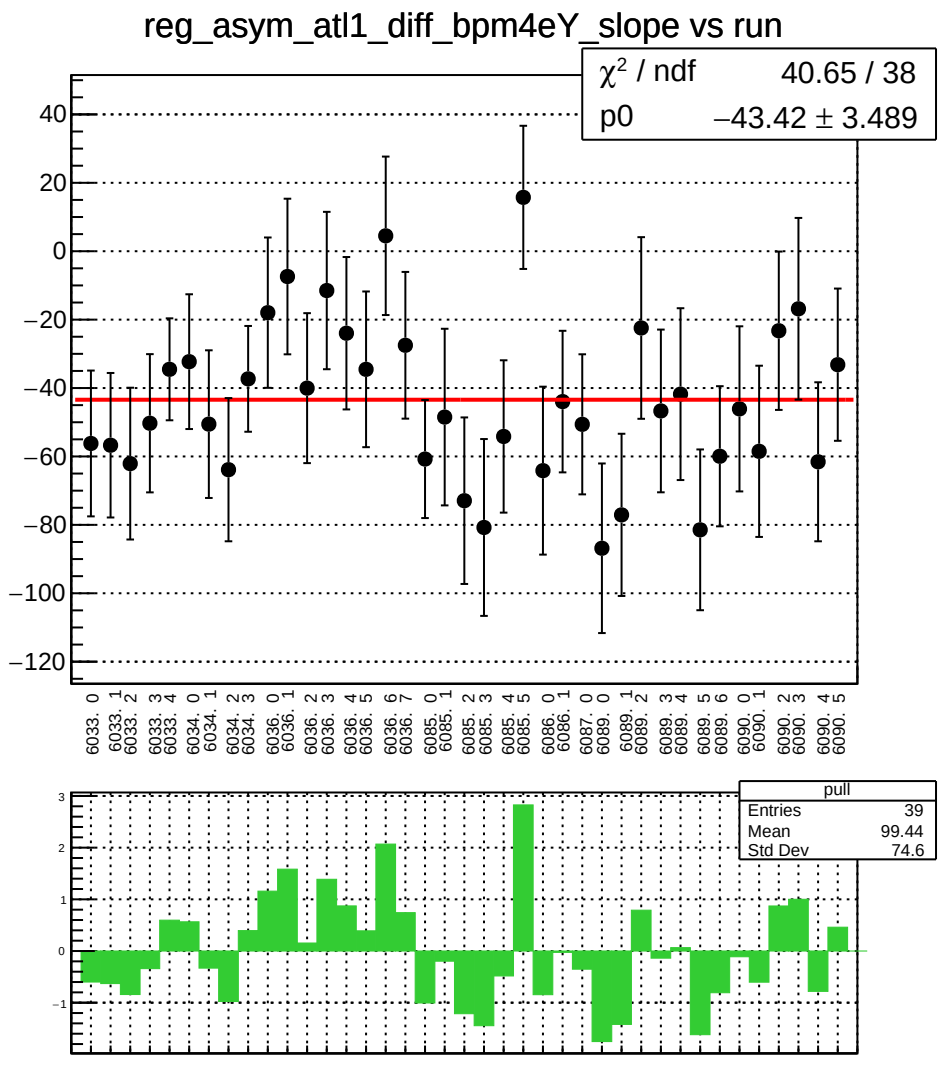

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 51.54 / 38
p0 −34.48 ± 5.282
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 45.8
Std Dev 20.94
3
2
1
0
−1
−2
−3

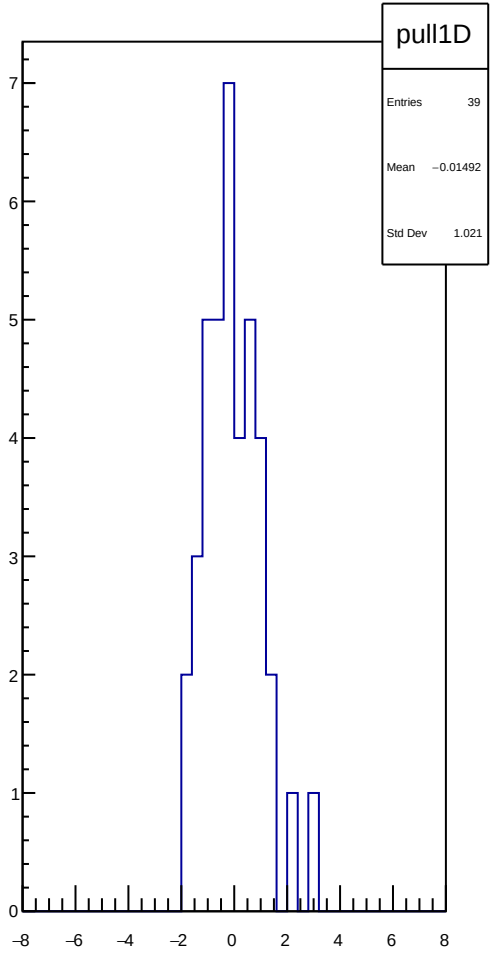

pull1D
Entries 39
Mean −0.03588
Std Dev 1.149
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

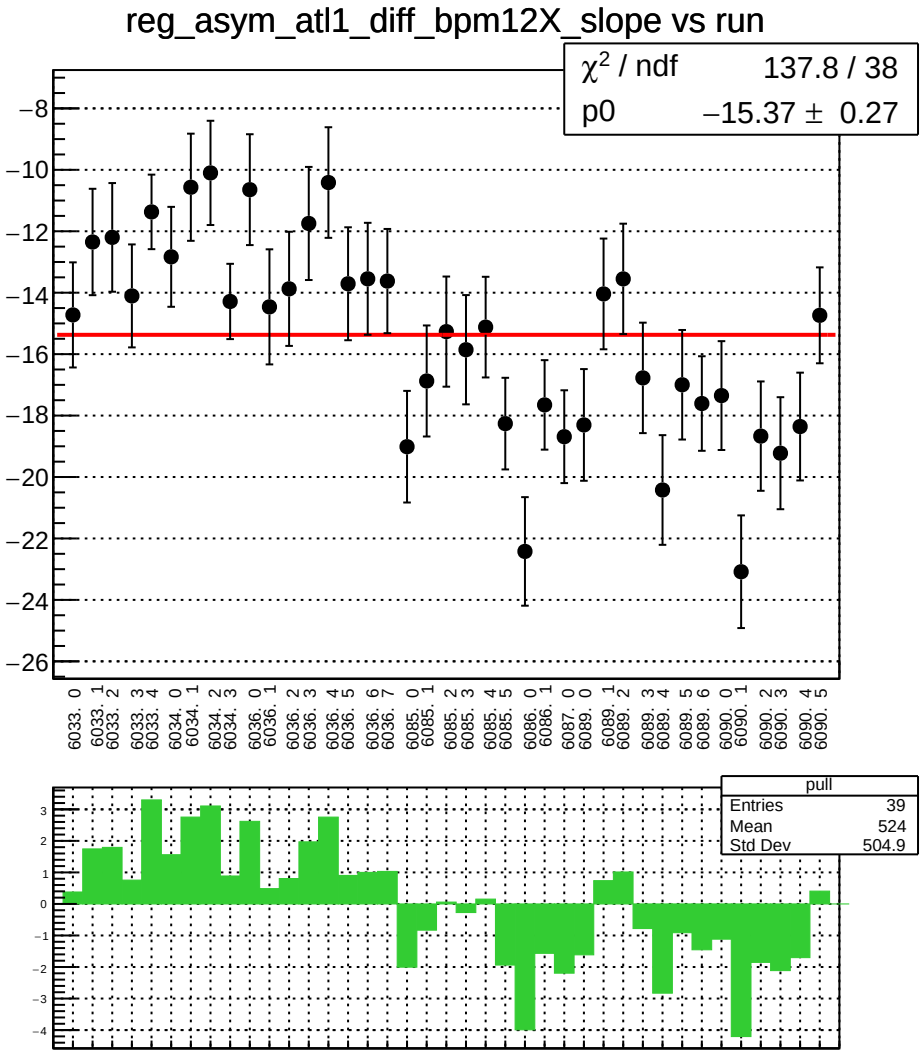

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 34.16 / 38
p0 24.62 ± 3.257
pull
Entries 39
Mean 37.47
Std Dev 5.105

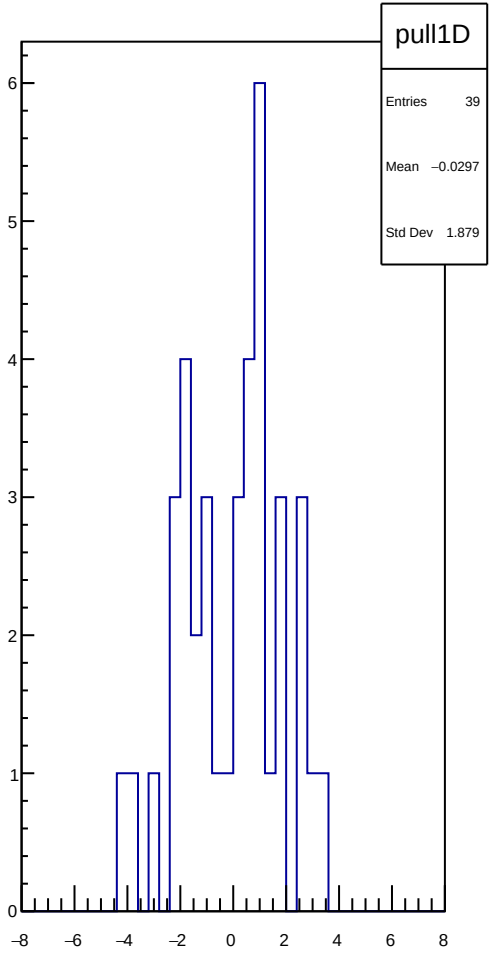

pull1D
Entries 39
Mean 0.02072
Std Dev 0.9356

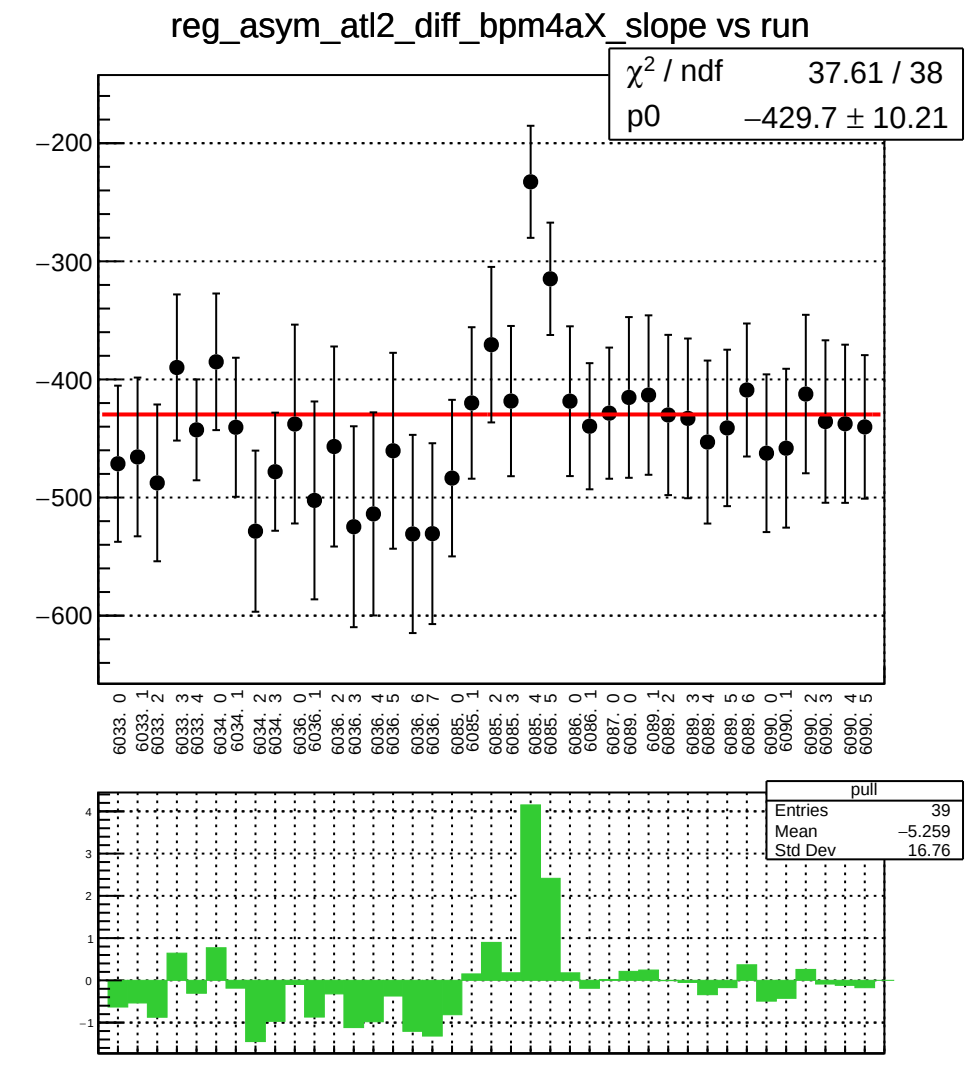

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 52.75 / 38
p0 80.02 ± 5.903
250
200
150
100
50
0
−50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 57.79
Std Dev 35.34
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.0444
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

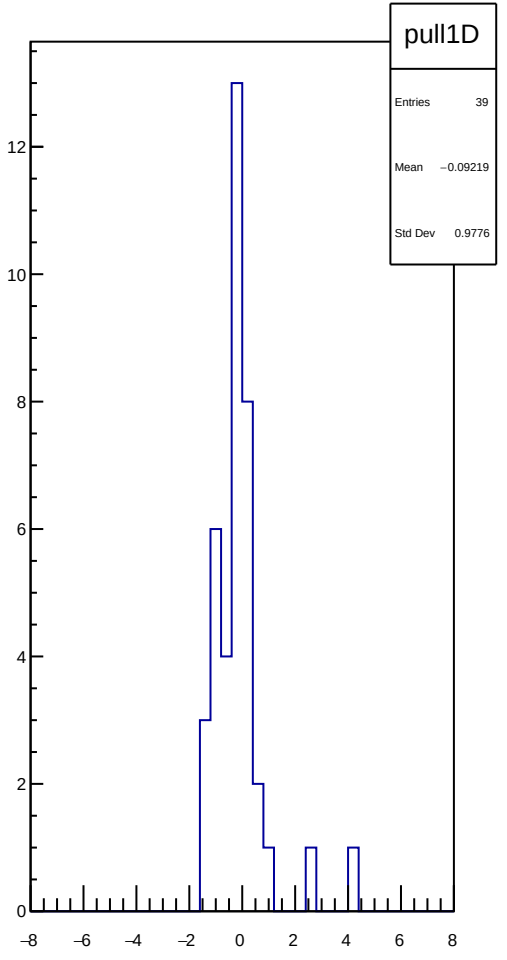

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 40.65 / 38
p0 −43.42 ± 3.489
pull
Entries 39
Mean 99.44
Std Dev 74.6

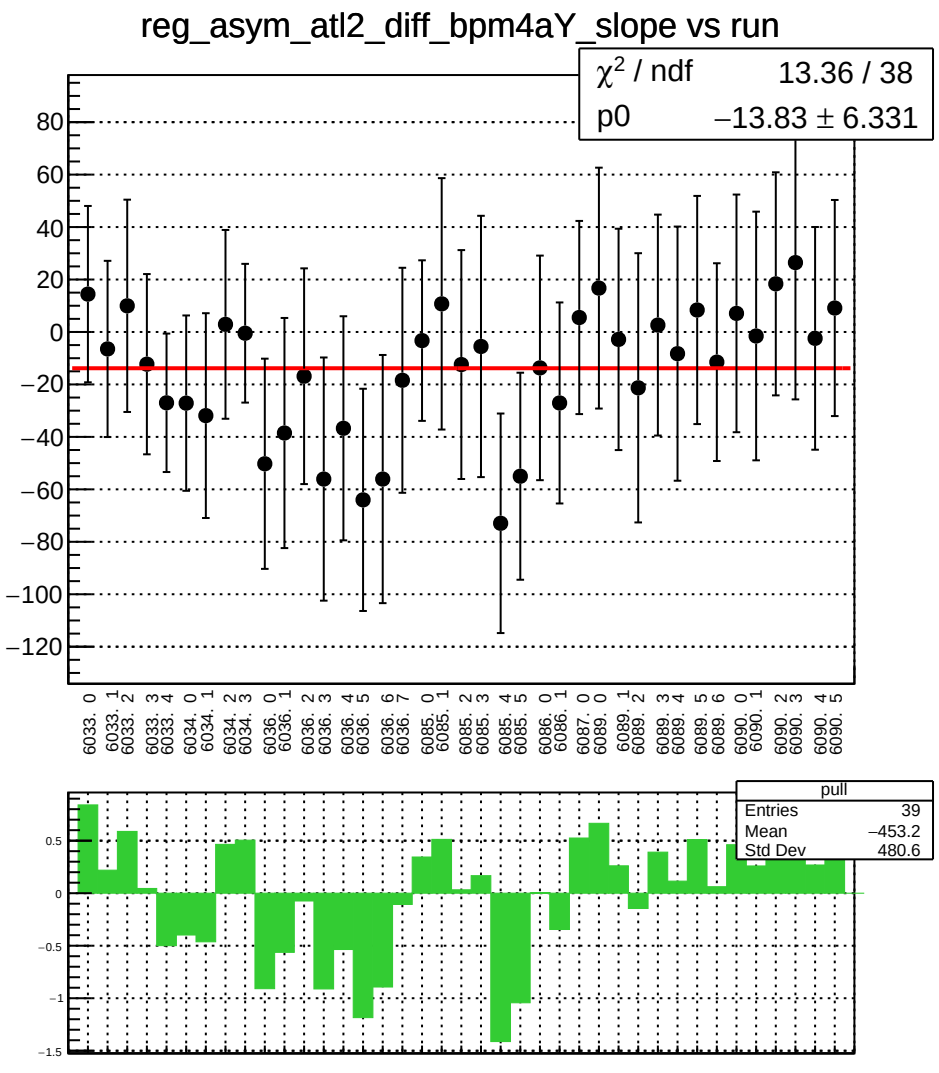

pull1D
Entries 39
Mean −0.01492
Std Dev 1.021

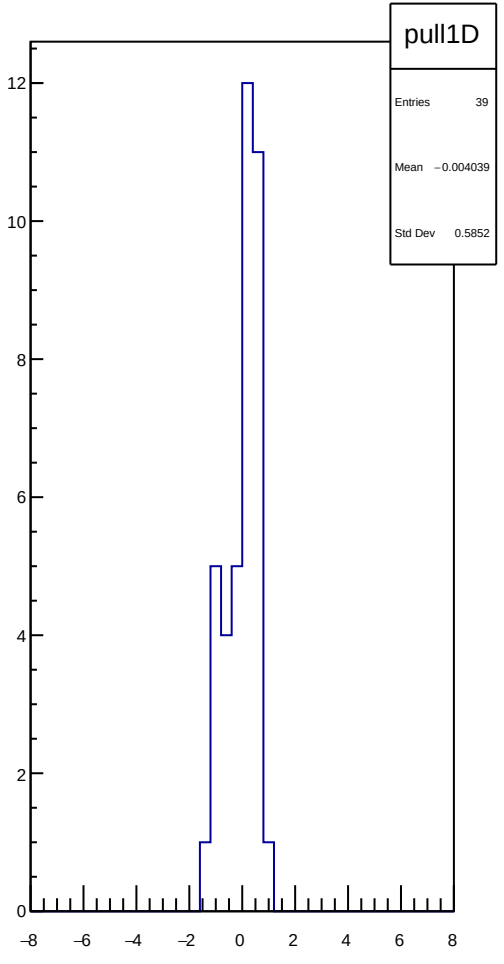

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 137.8 / 38
p0 −15.37 ± 0.27
pull
Entries 39
Mean 524
Std Dev 504.9

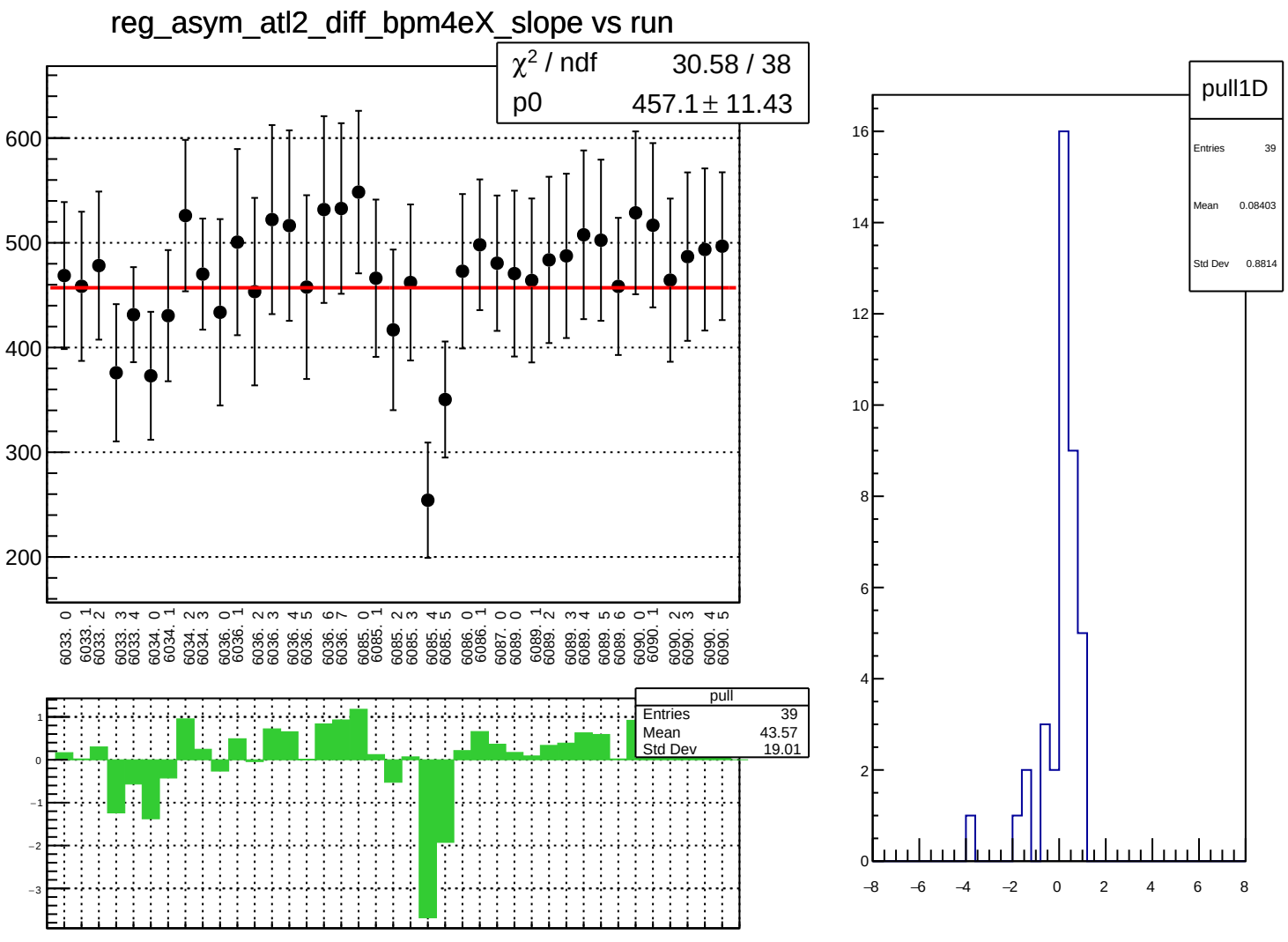

pull1D
Entries 39
Mean −0.0297
Std Dev 1.879

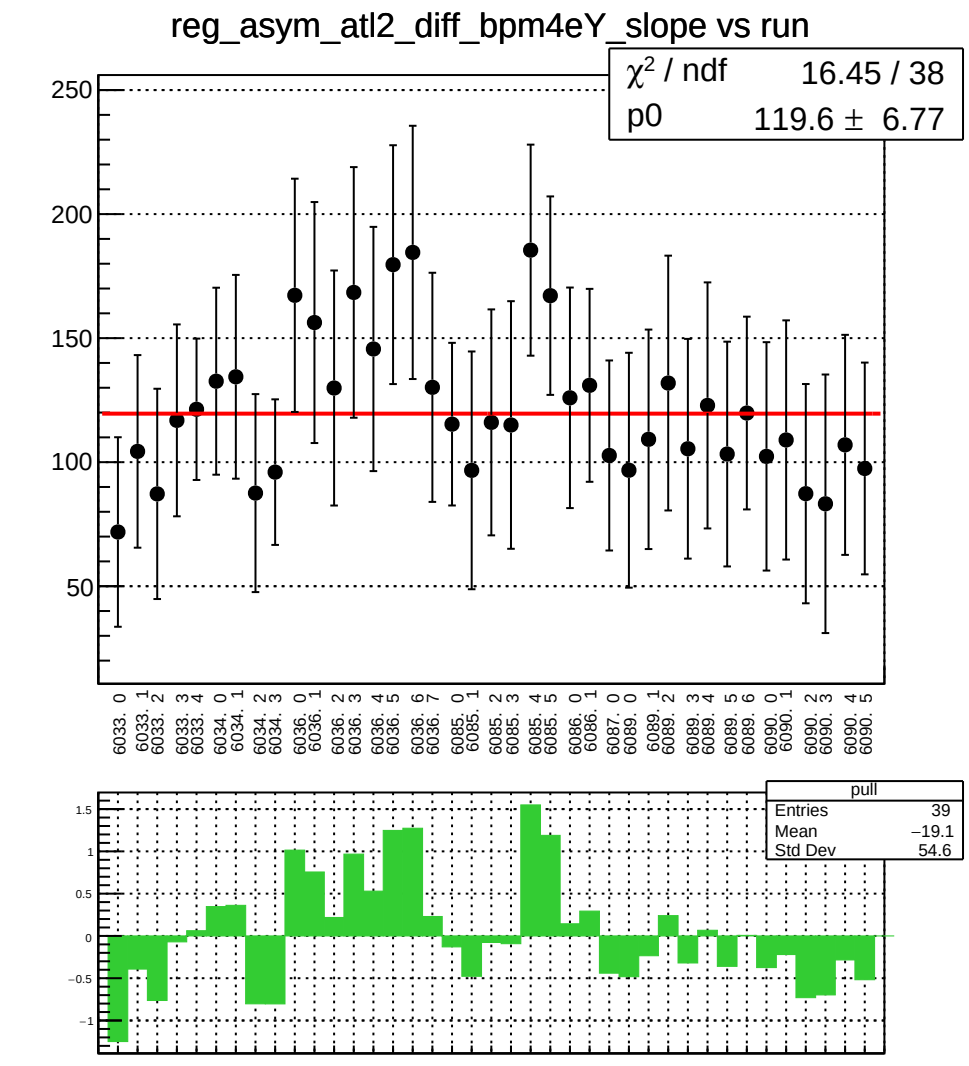

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 37.61 / 38
p0 −429.7 ± 10.21
−200
−300
−400
−500
−600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −5.259
Std Dev 16.76
4
3
2
1
0
−1

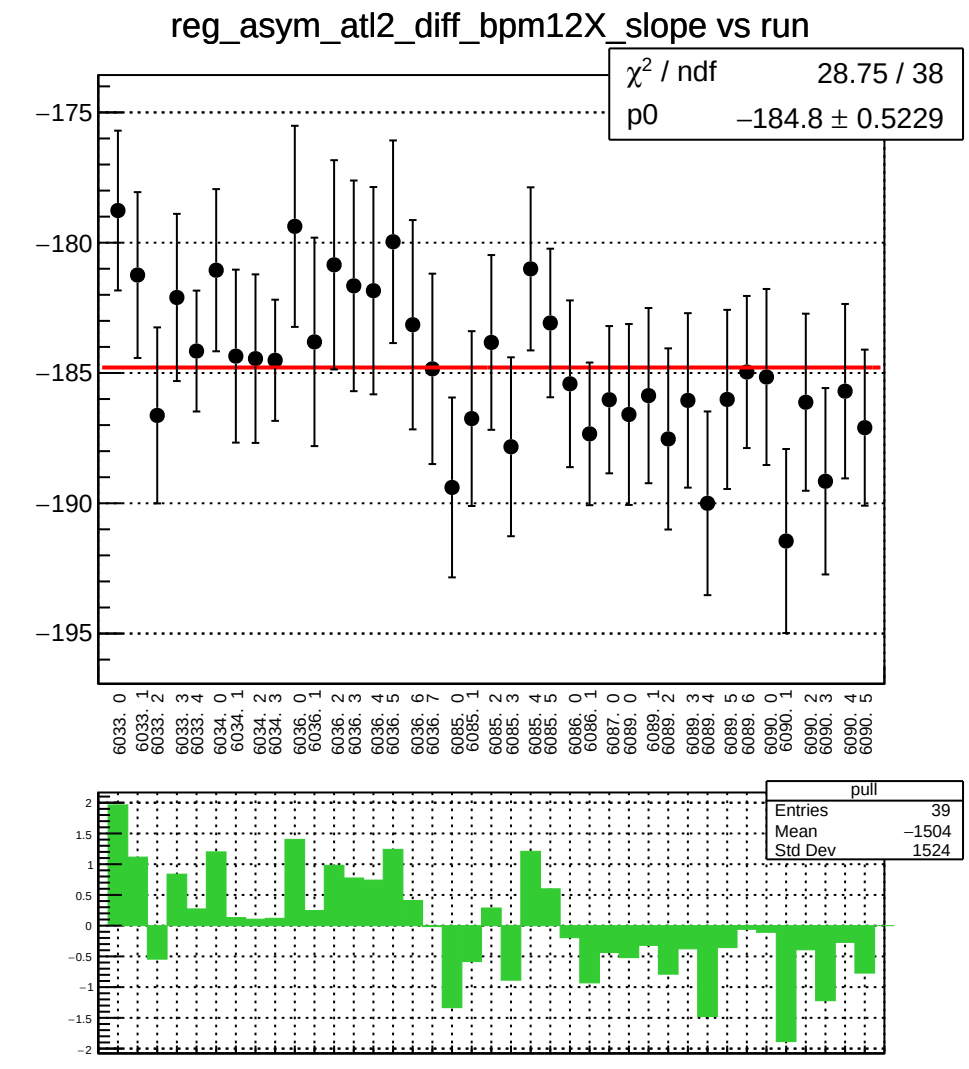

pull1D
Entries 39
Mean −0.09219
Std Dev 0.9776
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

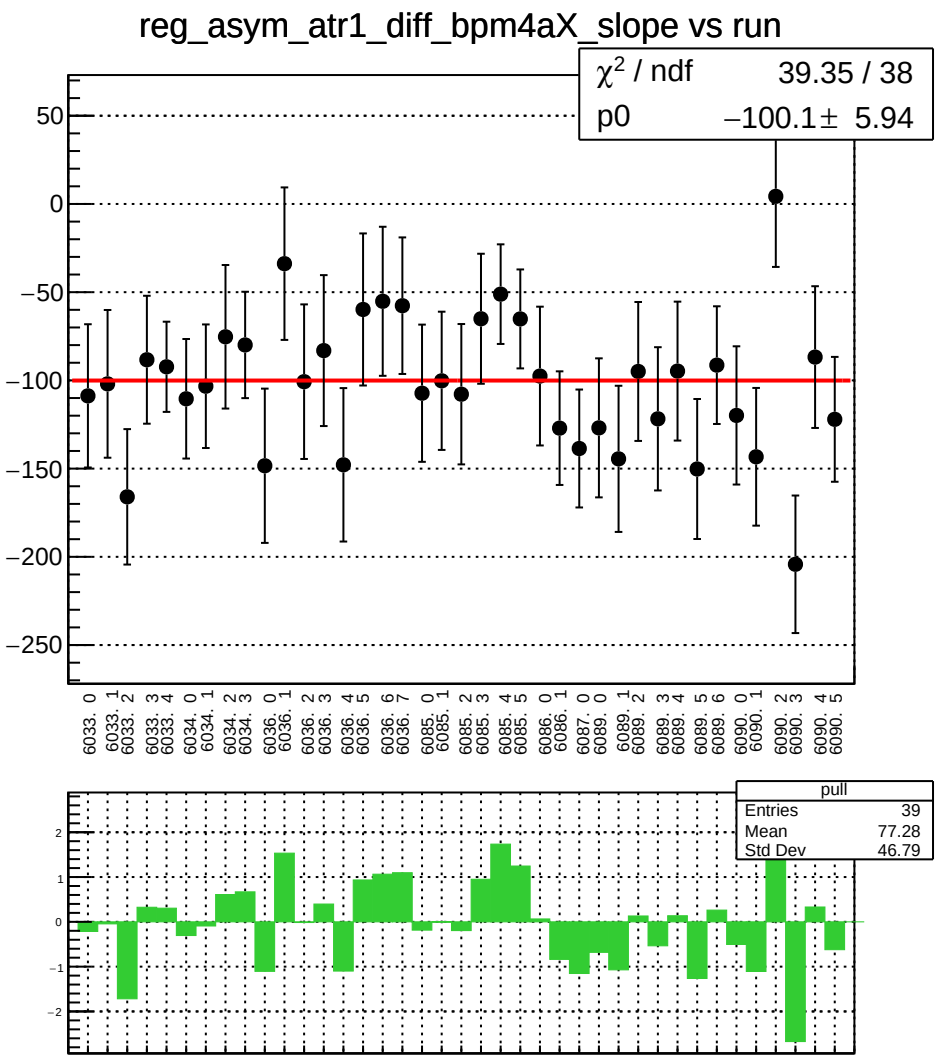

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 13.36 / 38
p0 −13.83 ± 6.331
pull
Entries 39
Mean −453.2
Std Dev 480.6

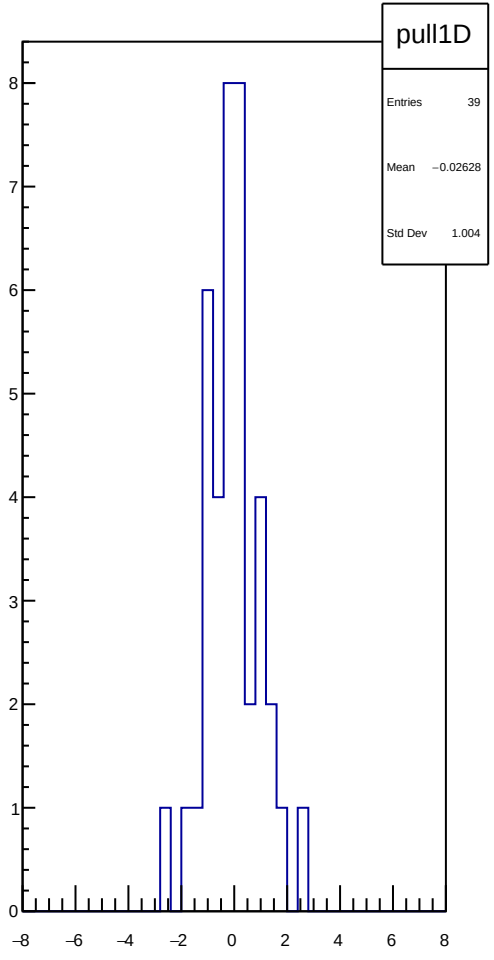

pull1D
Entries 39
Mean −0.004039
Std Dev 0.5852

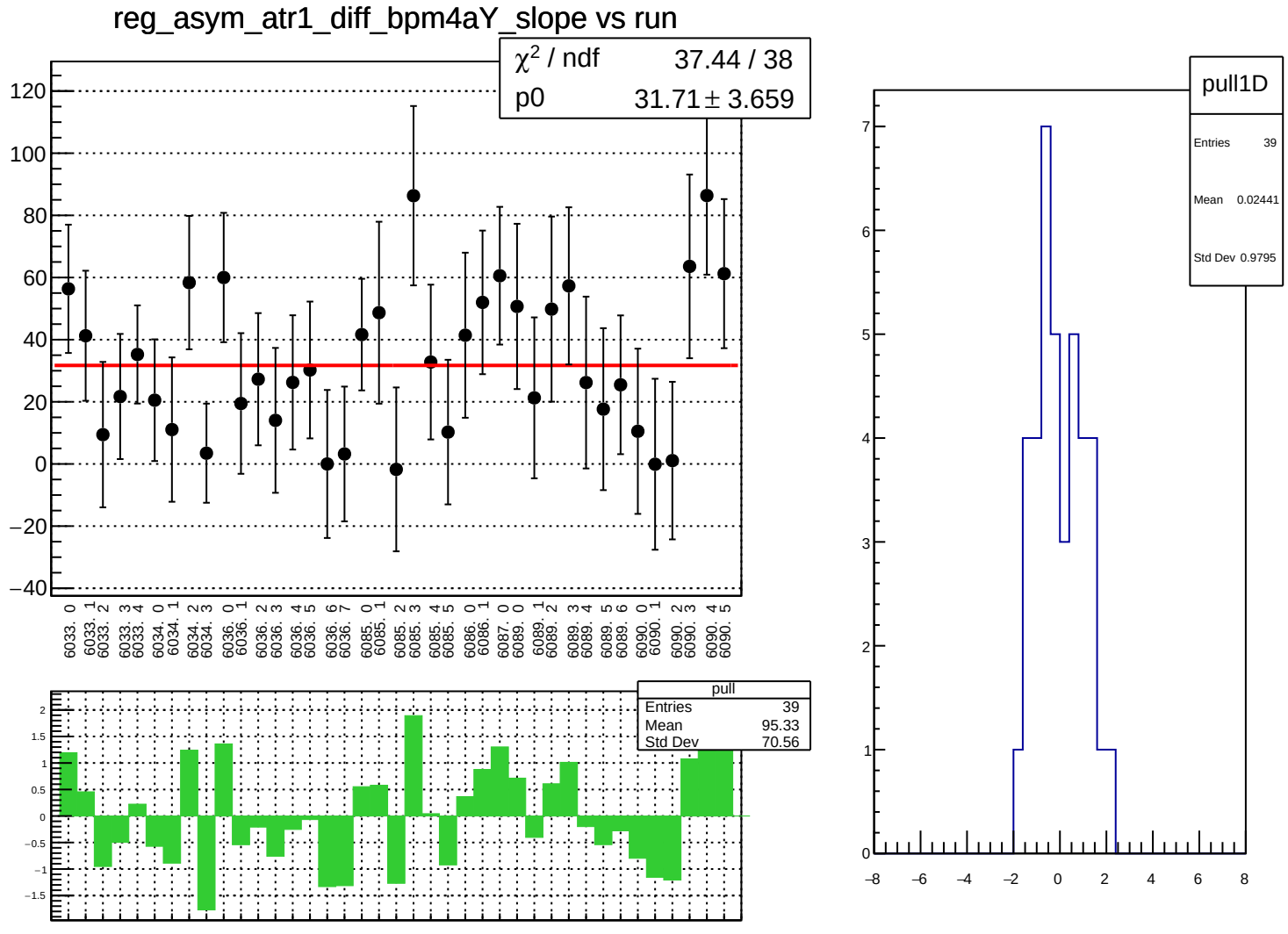

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 30.58 / 38
p0 457.1 ± 11.43
600
500
400
300
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 43.57
Std Dev 19.01
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.08403
Std Dev 0.8814
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

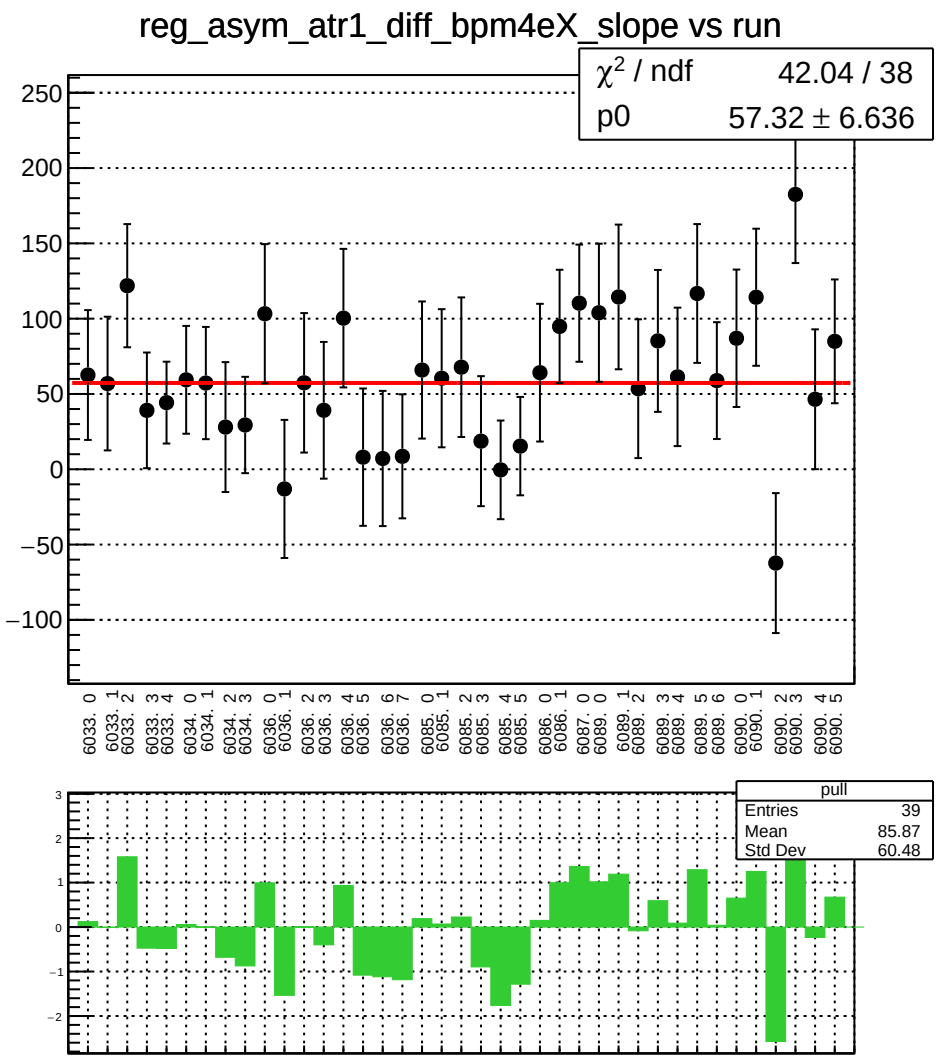

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 16.45 / 38
p0 119.6 ± 6.77
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −19.1
Std Dev 54.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.02516
Std Dev 0.649
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

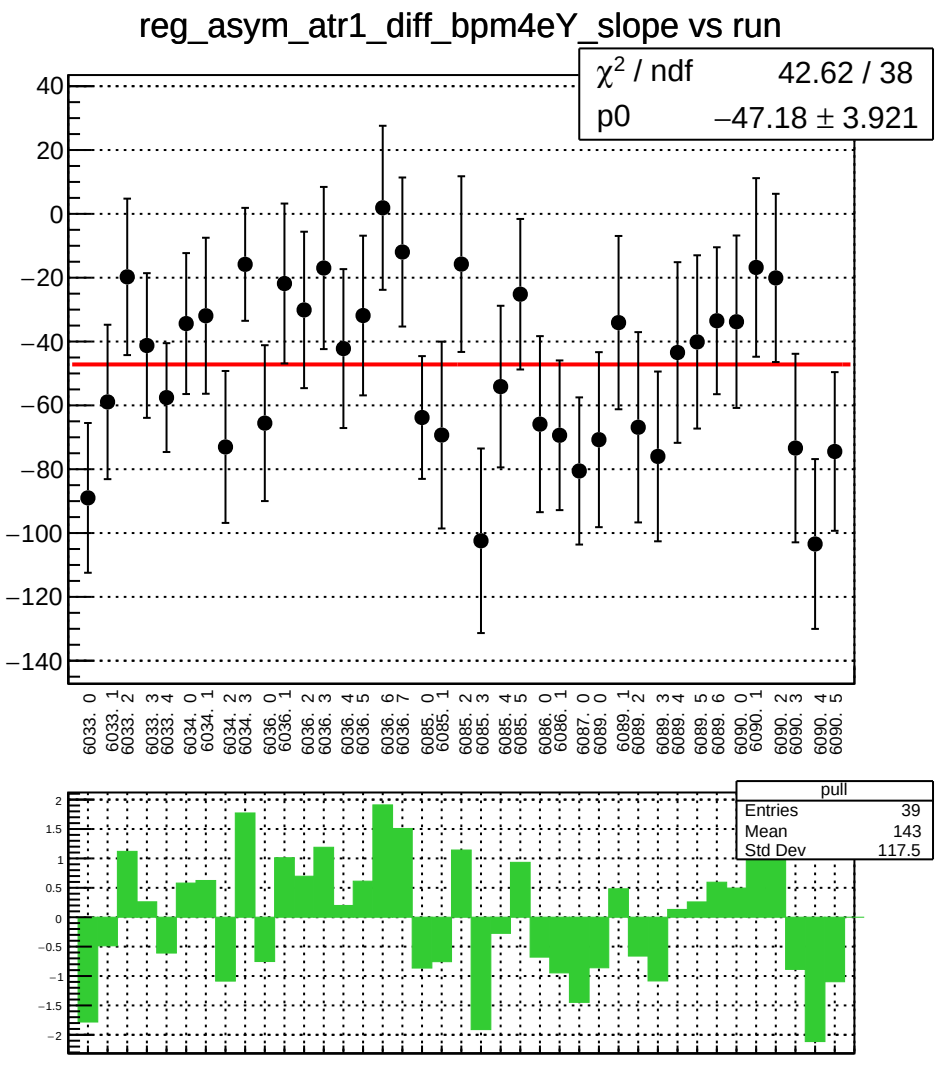

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 28.75 / 38
p0 −184.8 ± 0.5229
−175
−180
−185
−190
−195
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1504
Std Dev 1524
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.004117
Std Dev 0.8585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

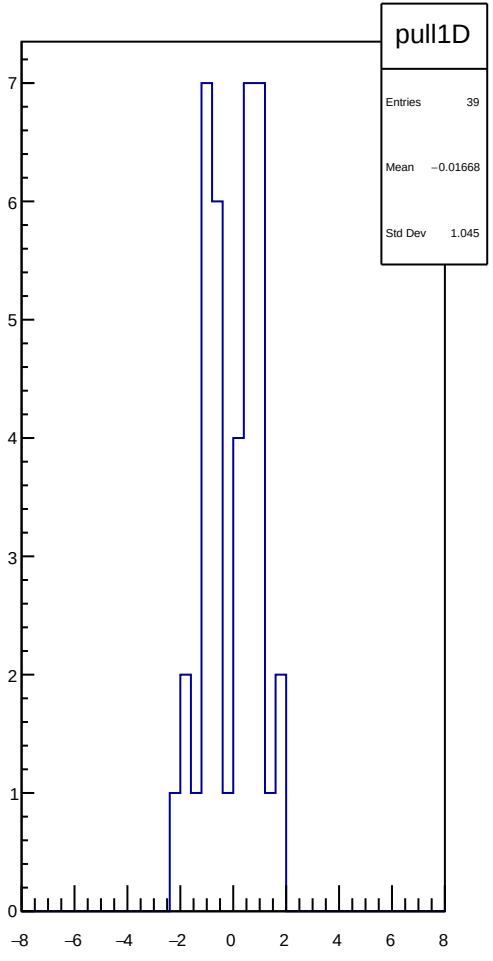

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 39.35 / 38
p0 −100.1± 5.94
50
0
−50
−100
−150
−200
−250
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 77.28
Std Dev 46.79
2
1
0
−1
−2

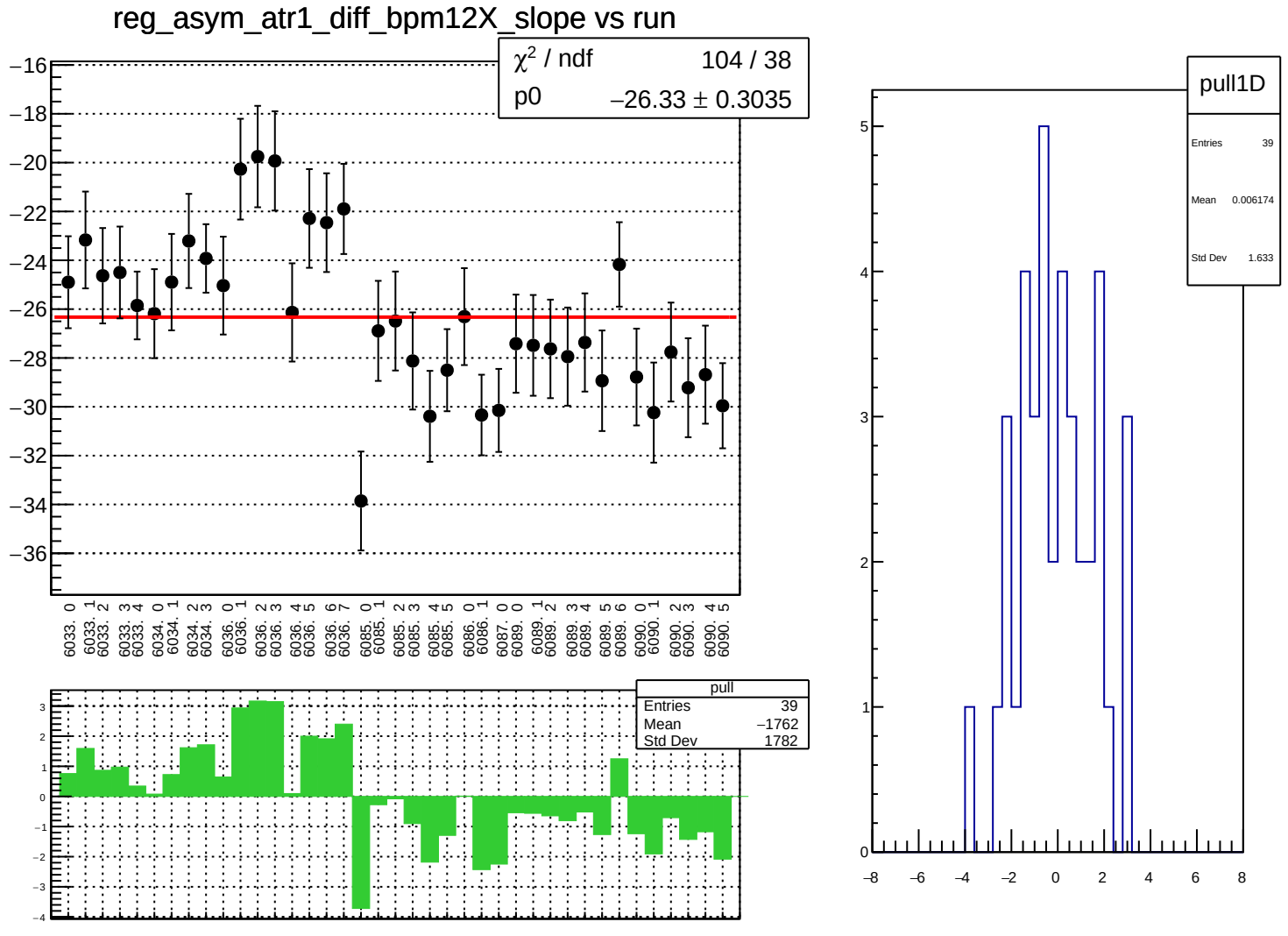

pull1D
Entries 39
Mean −0.02628
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

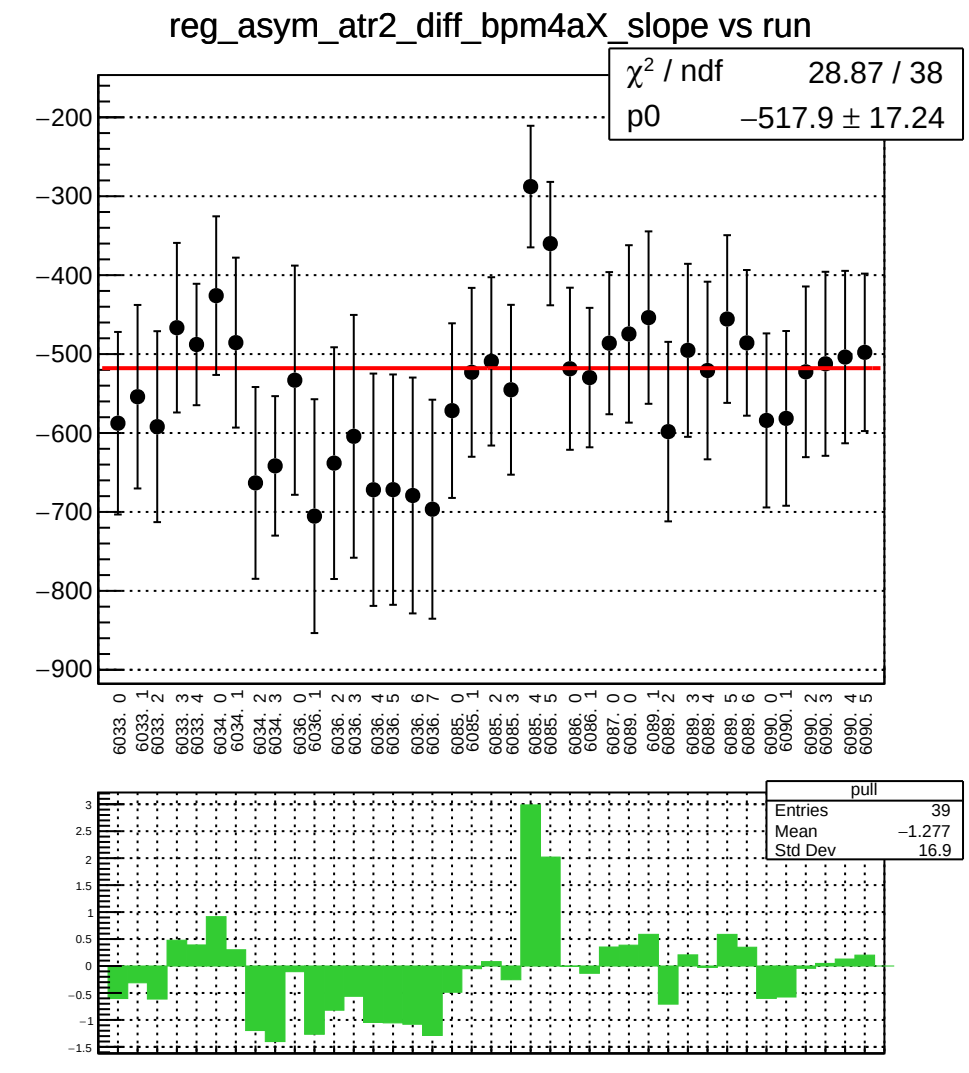

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 37.44 / 38
p0 31.71 ± 3.659
pull
Entries 39
Mean 95.33
Std Dev 70.56
pull1D
Entries 39
Mean 0.02441
Std Dev 0.9795

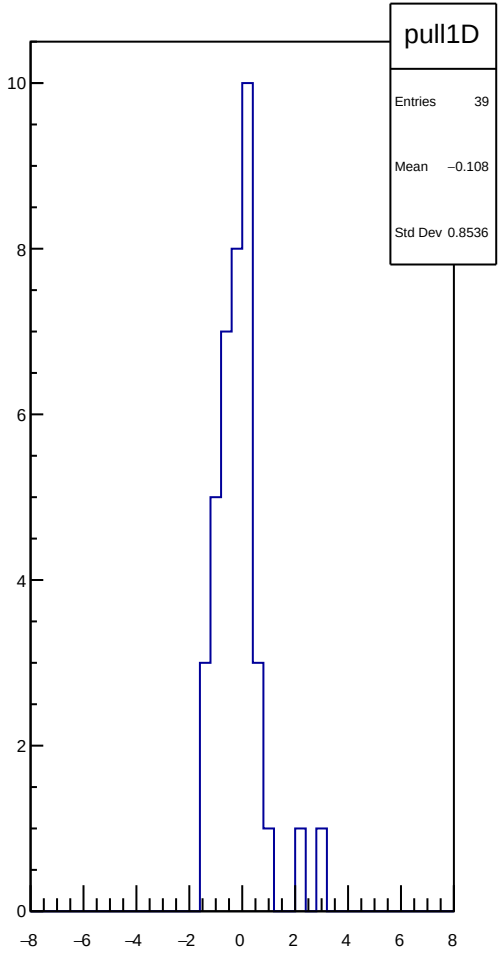

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 42.04 / 38
p0 57.32 ± 6.636
250
200
150
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 85.87
Std Dev 60.48
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03977
Std Dev 1.038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

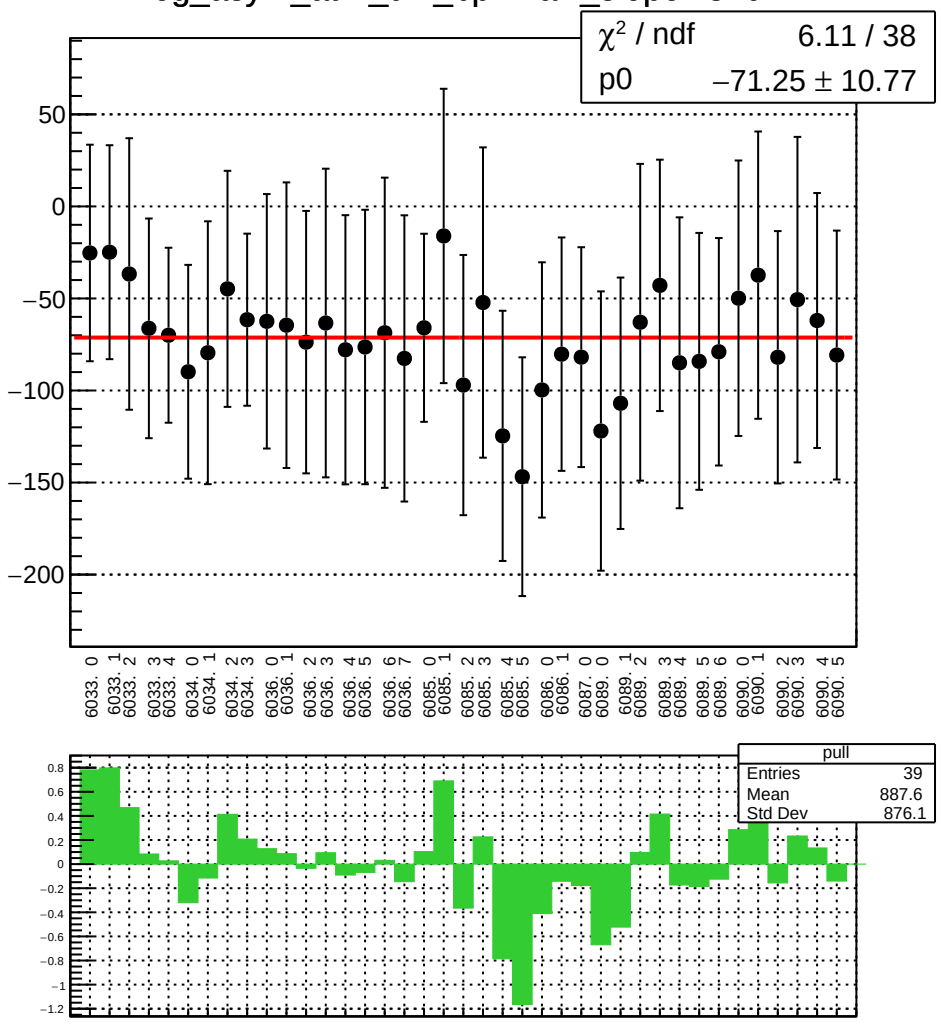

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 42.62 / 38
p0 −47.18 ± 3.921
pull
Entries 39
Mean 143
Std Dev 117.5

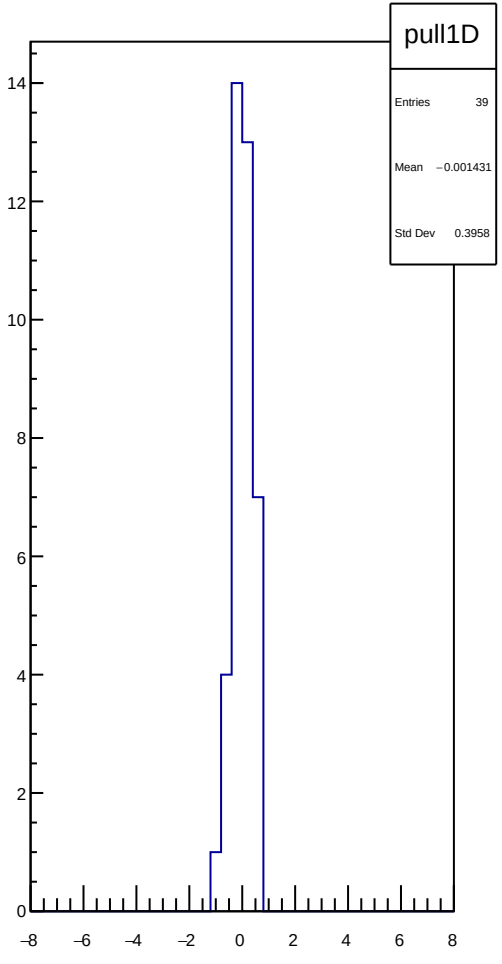

pull1D
Entries 39
Mean −0.01668
Std Dev 1.045

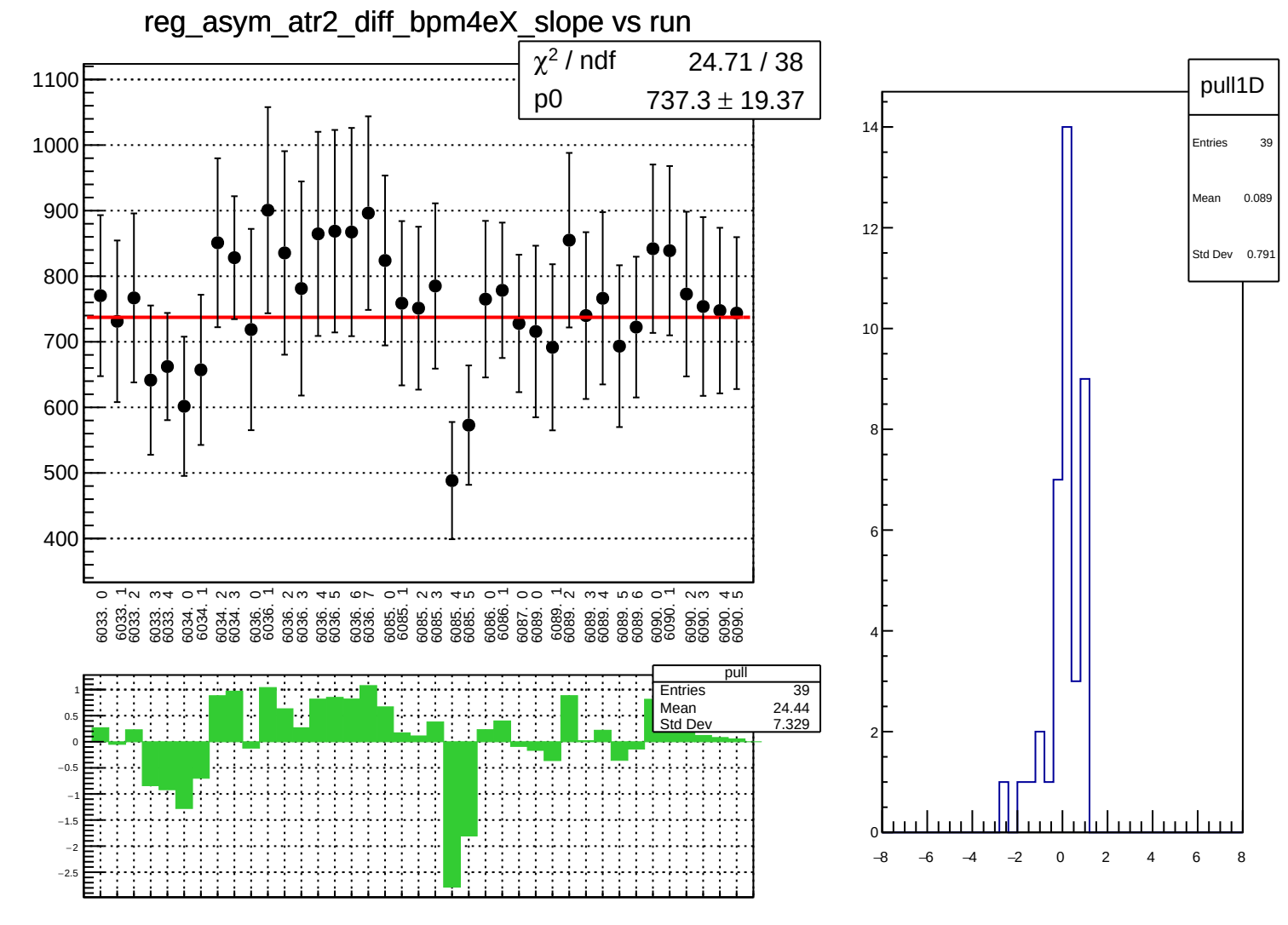

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 104 / 38
p0 −26.33 ± 0.3035
pull
Entries 39
Mean −1762
Std Dev 1782
pull1D
Entries 39
Mean 0.006174
Std Dev 1.633

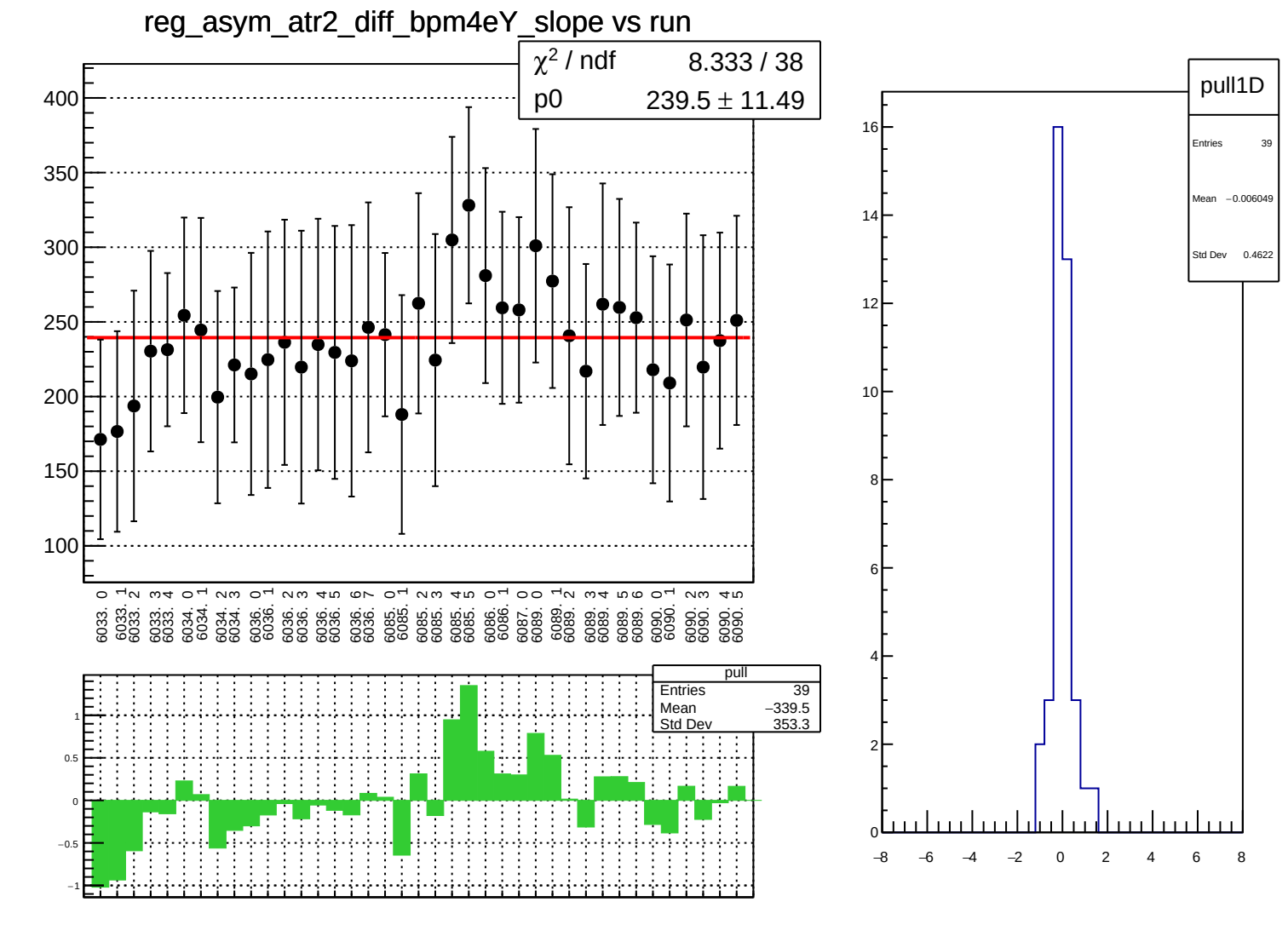

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 28.87 / 38
p0 −517.9 ± 17.24
pull
Entries 39
Mean −1.277
Std Dev 16.9

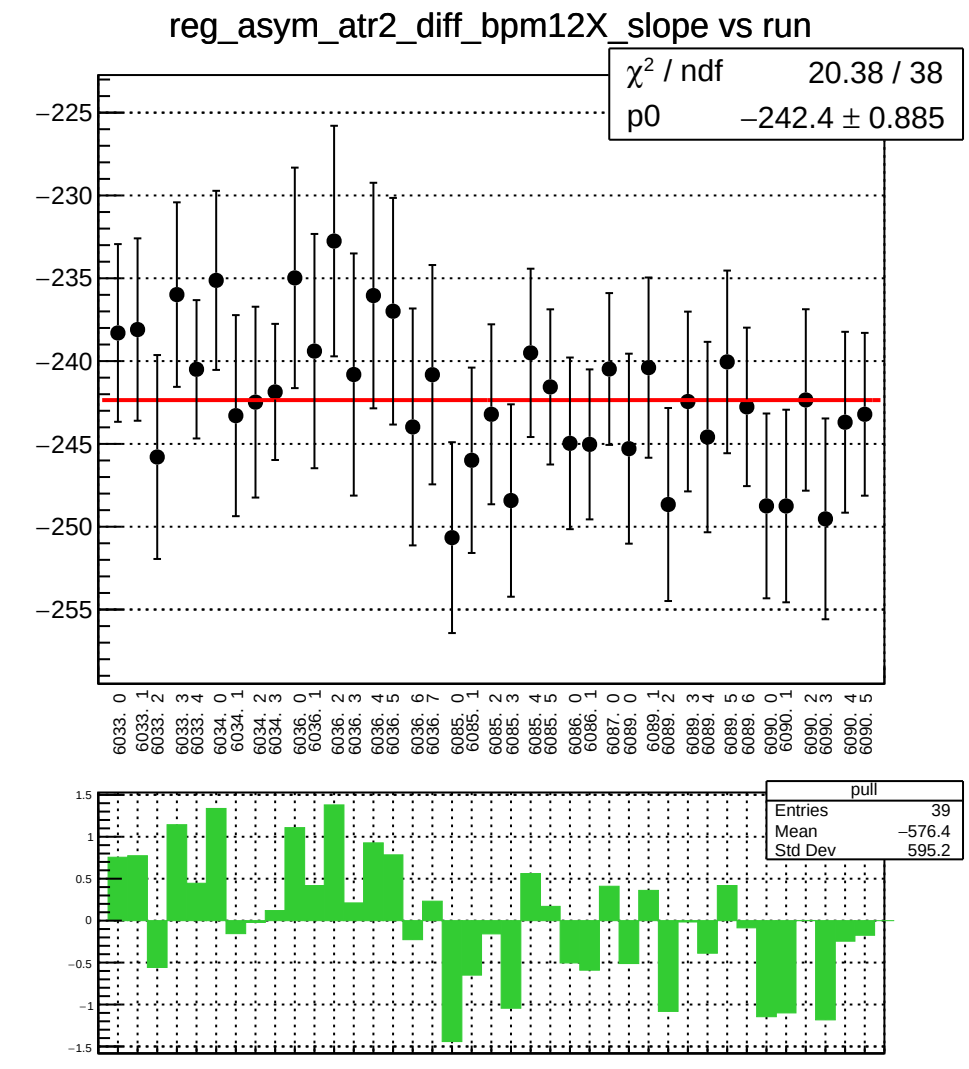

pull1D
Entries 39
Mean −0.108
Std Dev 0.8536

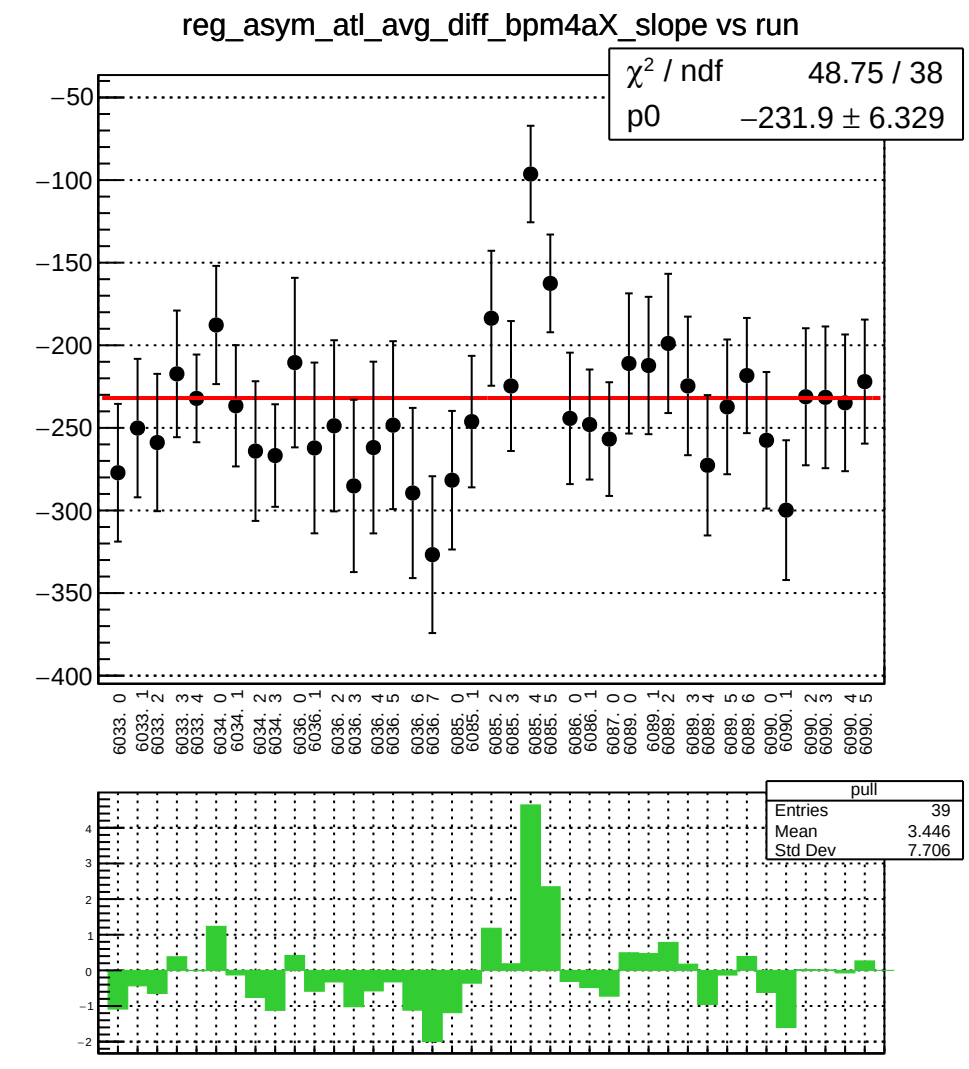

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 6.11 / 38
p0 −71.25 ± 10.77
pull
Entries 39
Mean 887.6
Std Dev 876.1

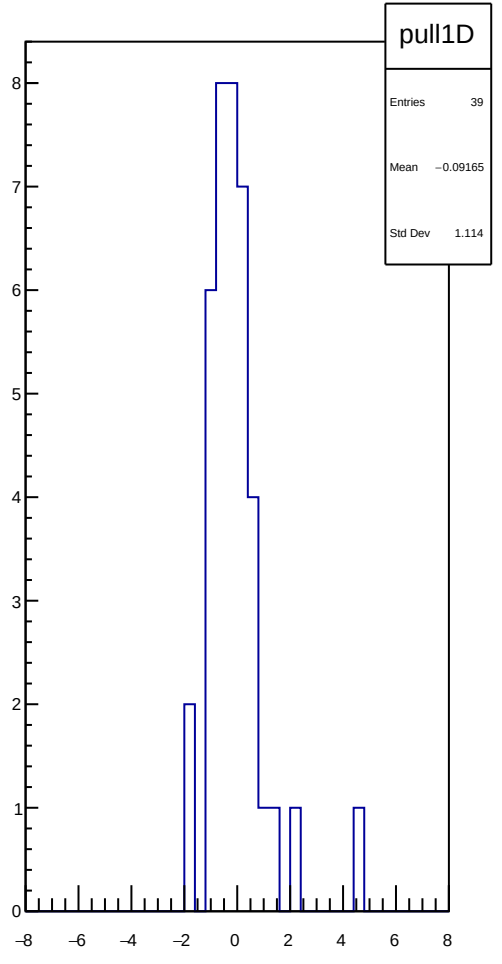

pull1D
Entries 39
Mean −0.001431
Std Dev 0.3958

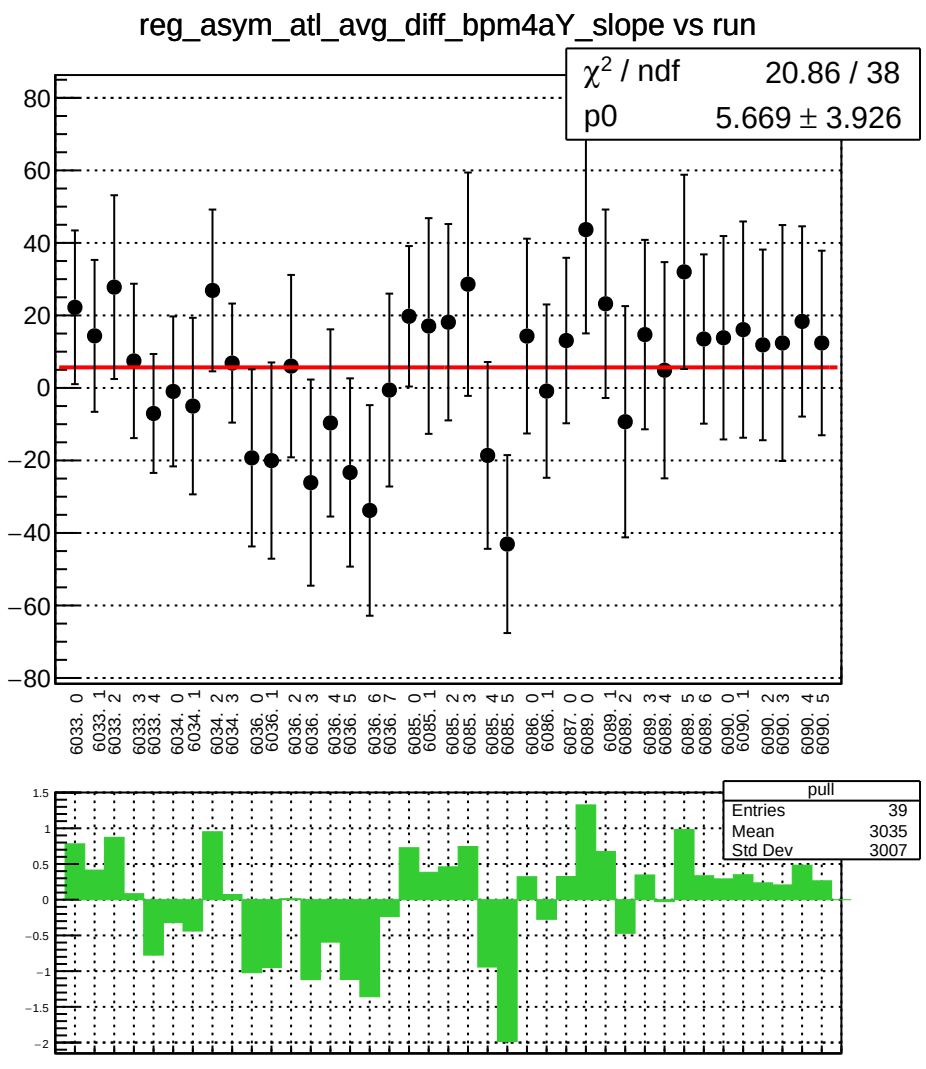

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 24.71 / 38
p0 737.3 ± 19.37
1100
1000
900
800
700
600
500
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 24.44
Std Dev 7.329
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.089
Std Dev 0.791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

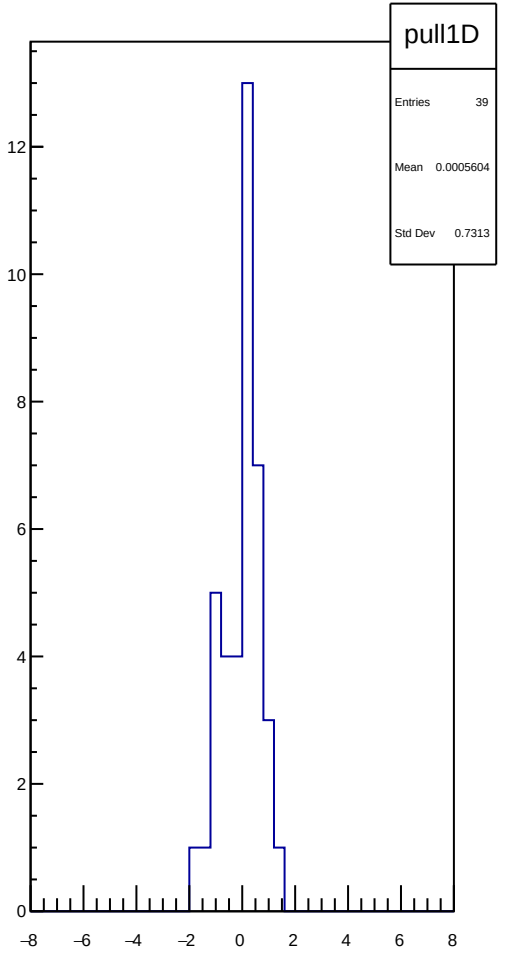

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 8.333 / 38
p0 239.5 ± 11.49
pull
Entries 39
Mean −339.5
Std Dev 353.3
pull1D
Entries 39
Mean −0.006049
Std Dev 0.4622

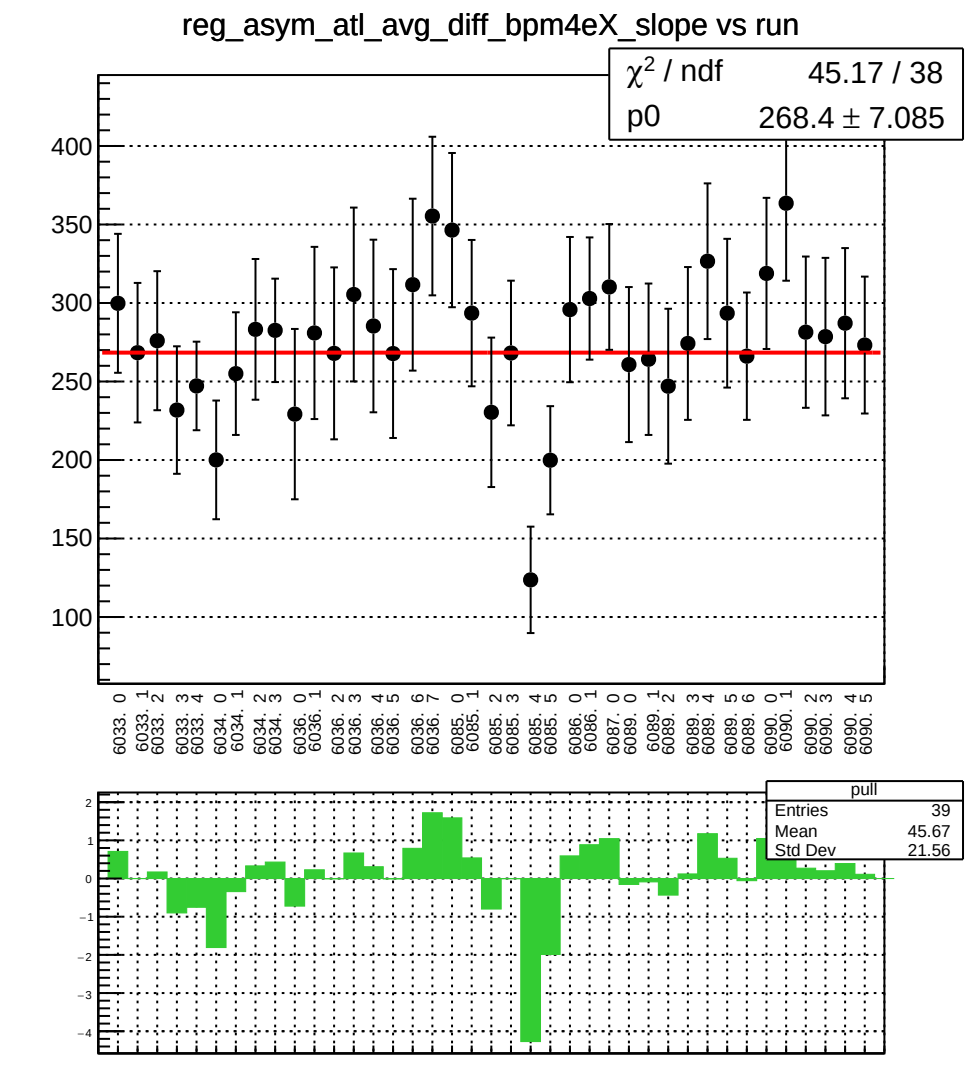

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 20.38 / 38
p0 −242.4 ± 0.885
−225
−230
−235
−240
−245
−250
−255
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −576.4
Std Dev 595.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.007223
Std Dev 0.7228
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

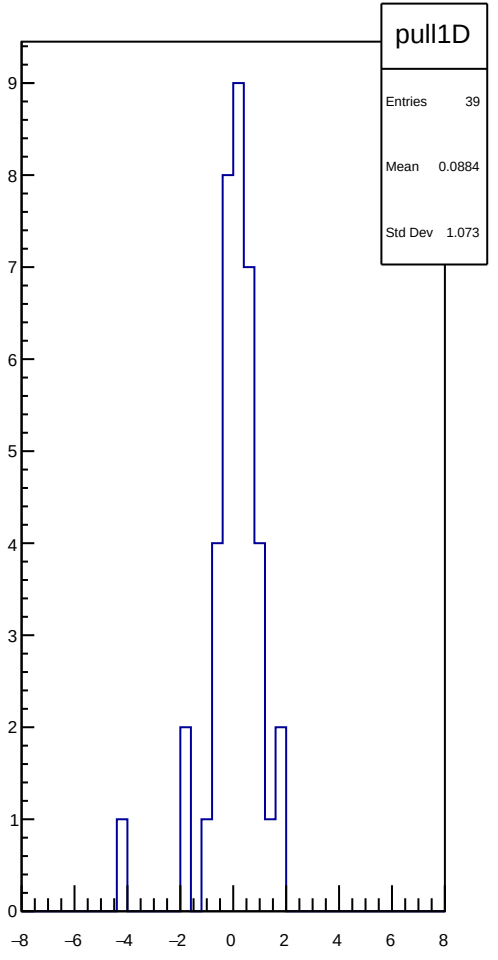

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.75 / 38
p0 −231.9 ± 6.329
pull
Entries 39
Mean 3.446
Std Dev 7.706

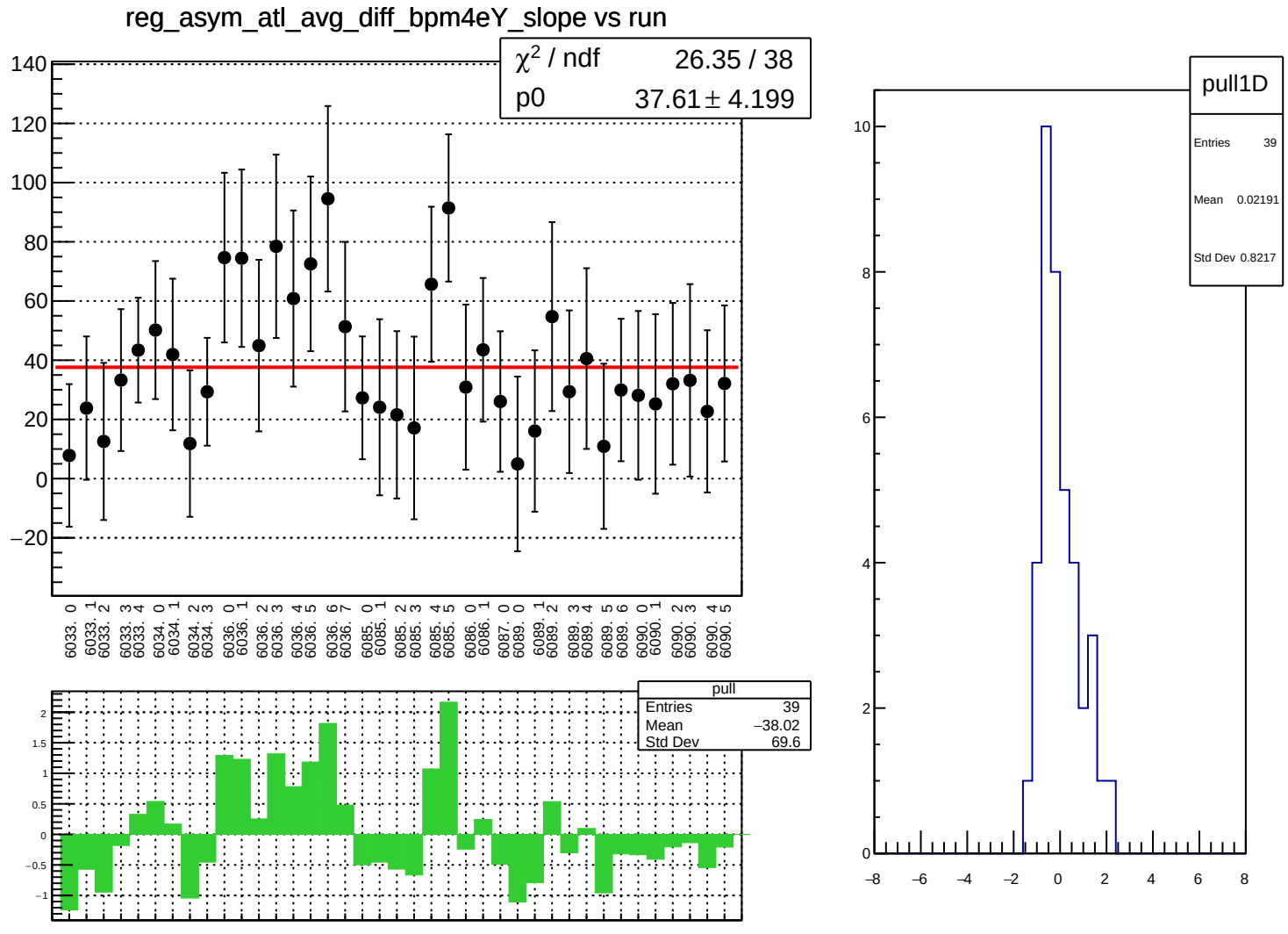

pull1D
Entries 39
Mean −0.09165
Std Dev 1.114

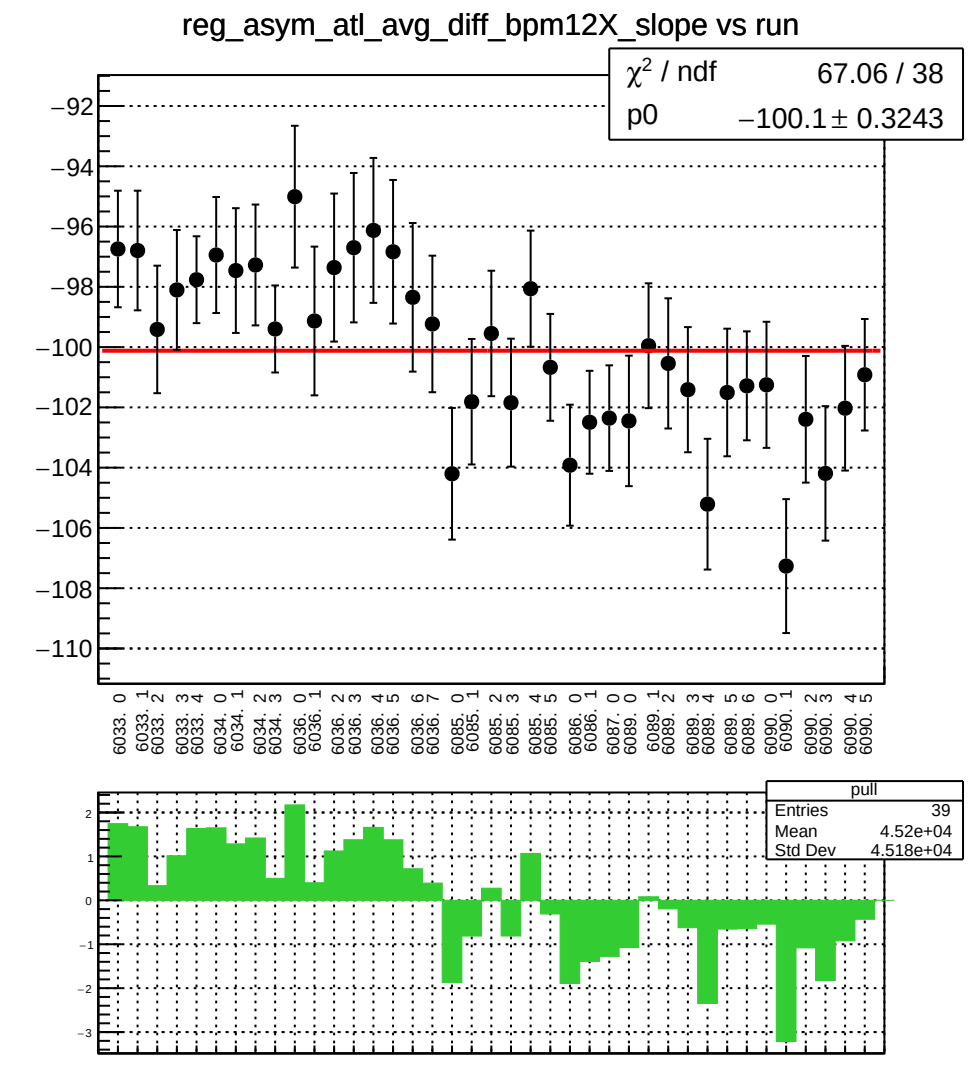

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.86 / 38
p0 5.669 ± 3.926
pull
Entries 39
Mean 3035
Std Dev 3007

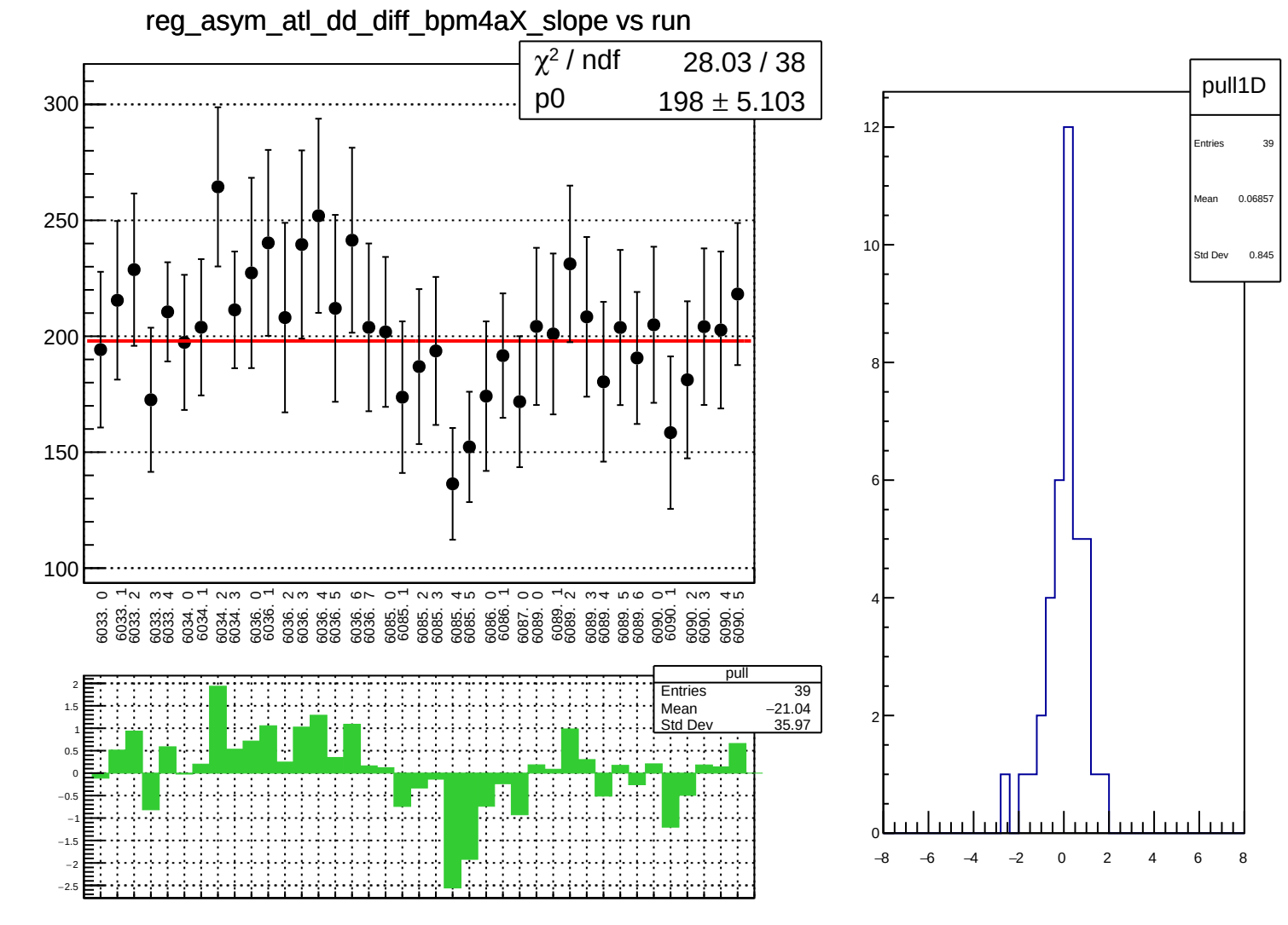

pull1D
Entries 39
Mean 0.0005604
Std Dev 0.7313

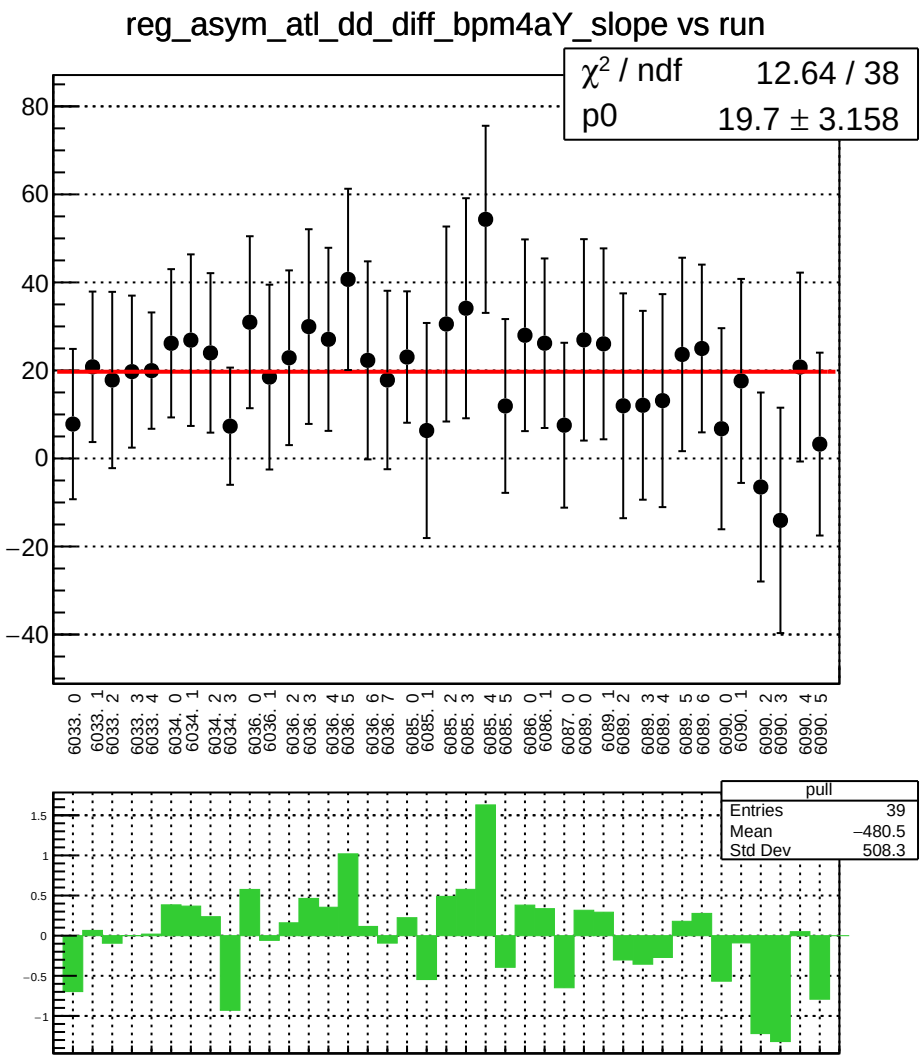

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.17 / 38
p0 268.4 ± 7.085
400
350
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 45.67
Std Dev 21.56
2
1
0
−1
−2
−3
−4

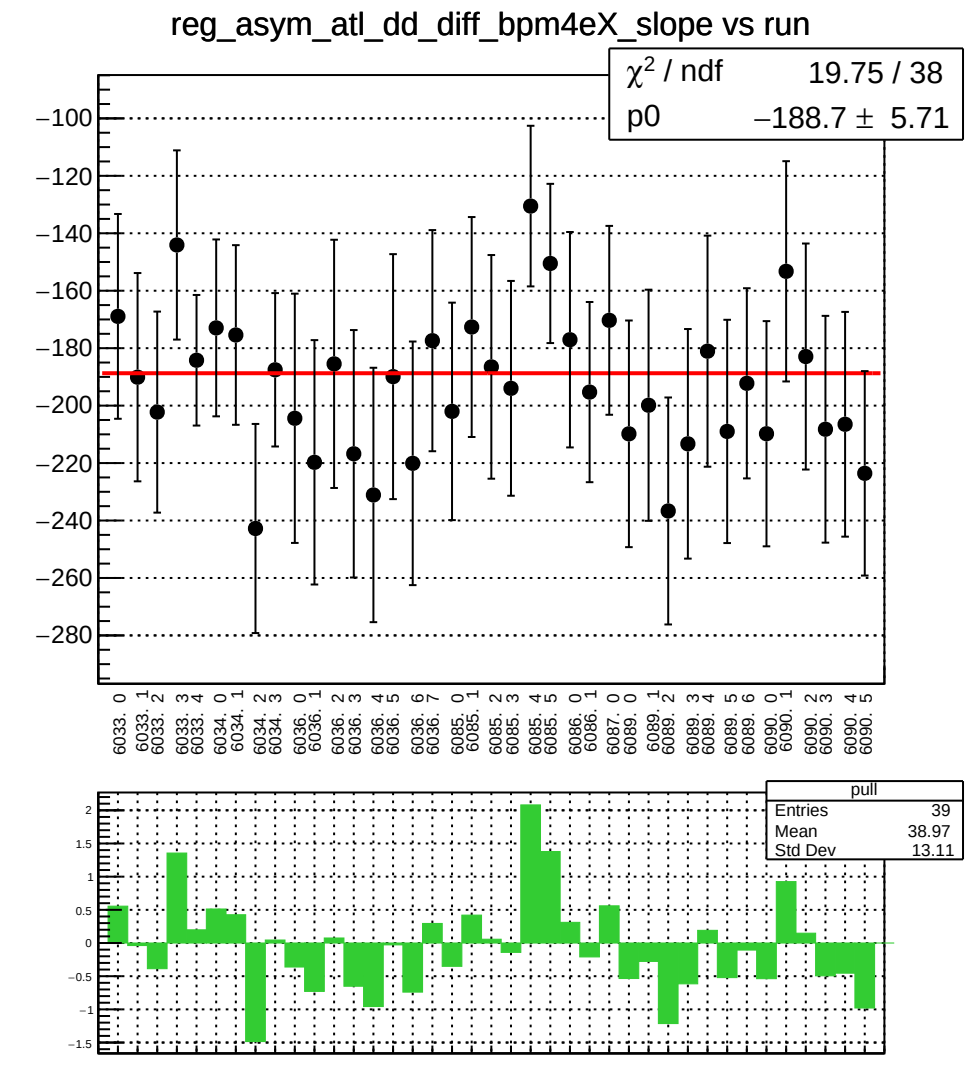

pull1D
Entries 39
Mean 0.0884
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

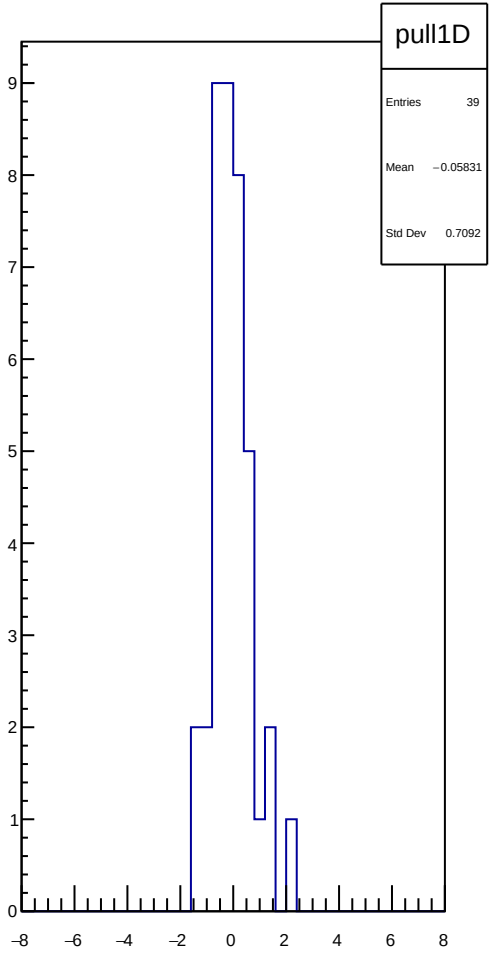

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.35 / 38
p0 37.61 ± 4.199
140
120
100
80
60
40
20
0
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −38.02
Std Dev 69.6
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.02191
Std Dev 0.8217
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

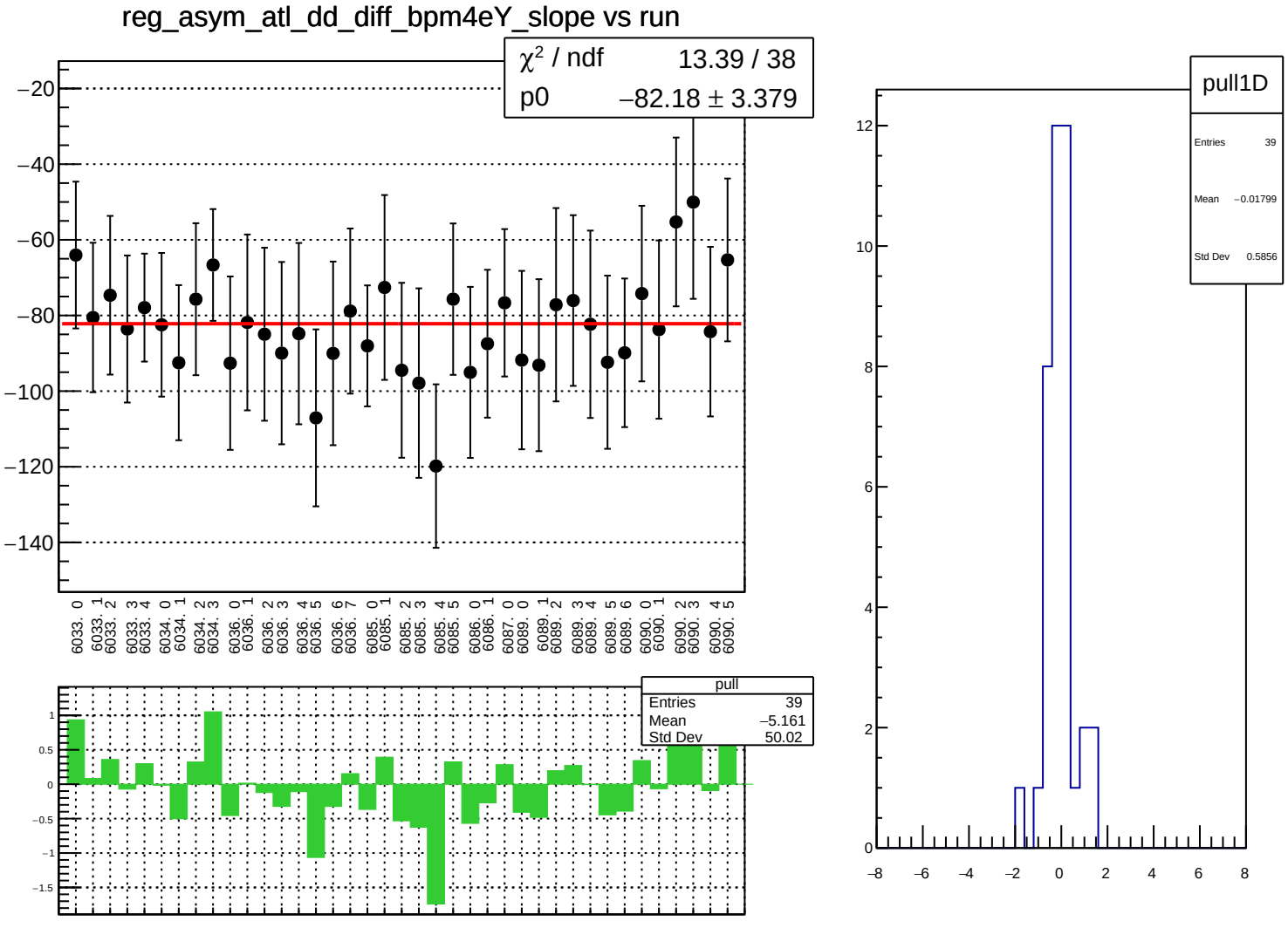

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 67.06 / 38
p0 −100.1 ± 0.3243
−92
−94
−96
−98
−100
−102
−104
−106
−108
−110
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 4.52e+04
Std Dev 4.518e+04
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.0002498
Std Dev 1.311
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

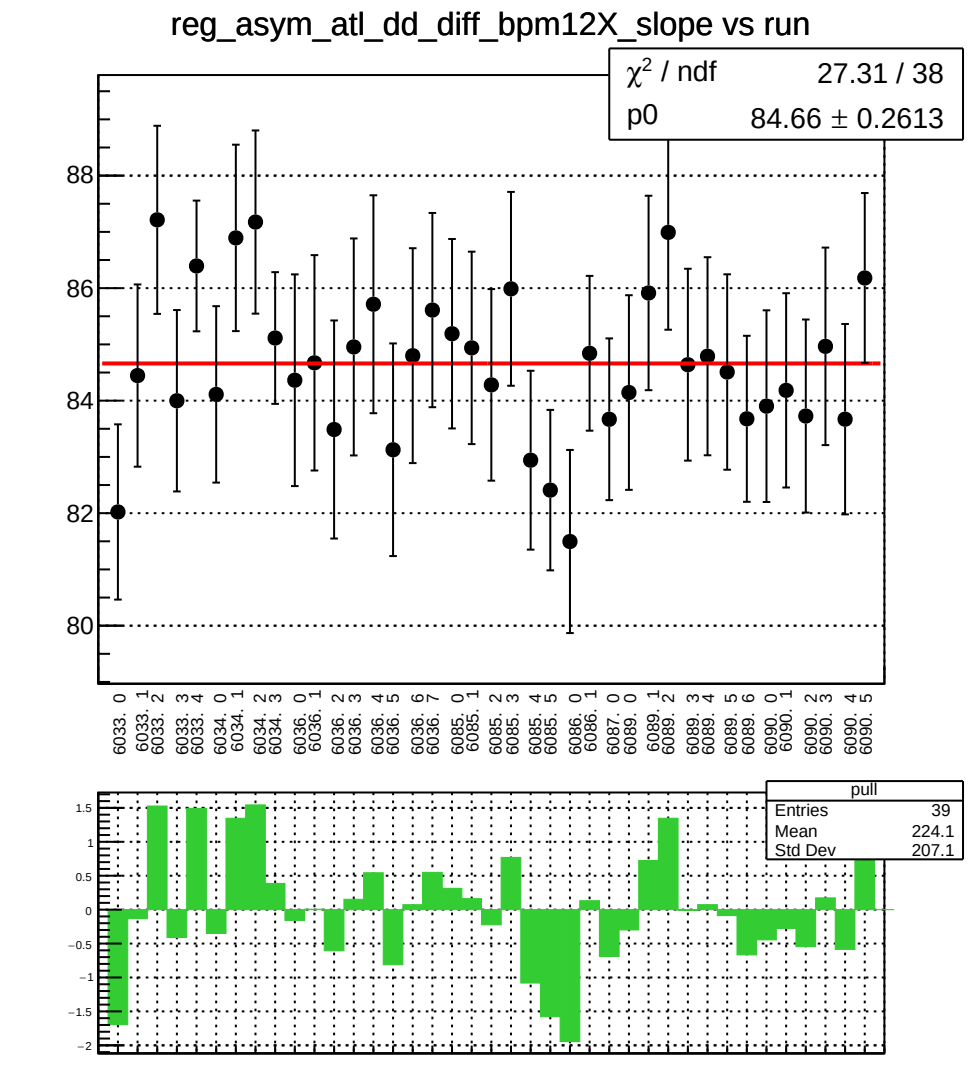

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.03 / 38
p0 198 ± 5.103
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −21.04
Std Dev 35.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.06857
Std Dev 0.845
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

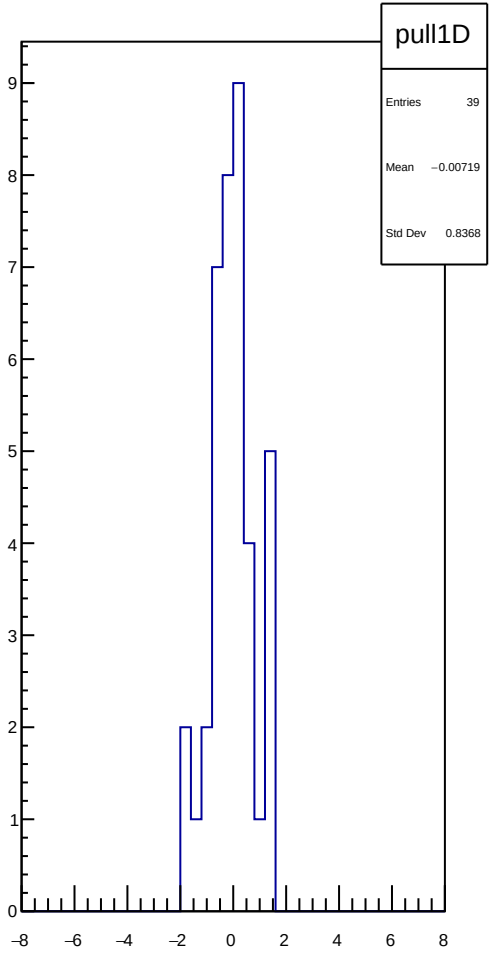

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.64 / 38
p0 19.7 ± 3.158
80
60
40
20
0
−20
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −480.5
Std Dev 508.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.003532
Std Dev 0.5693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

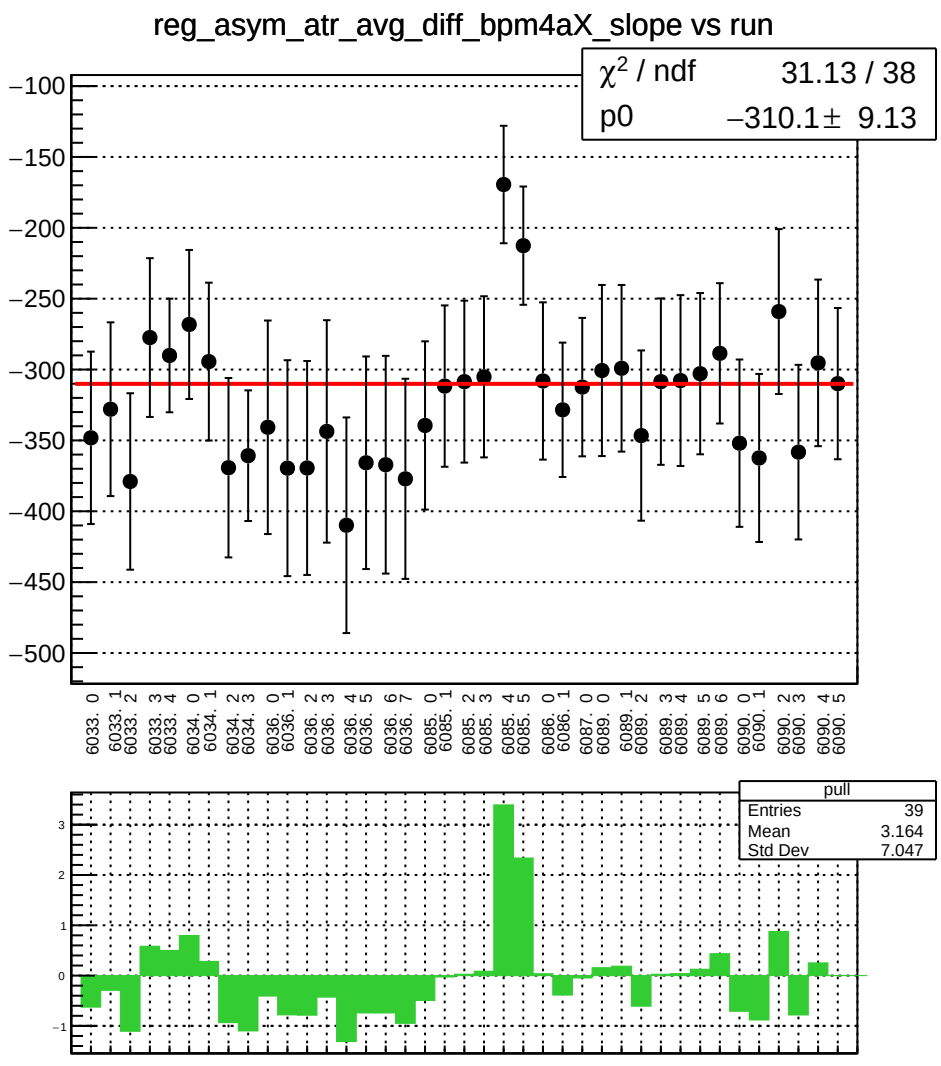

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.75 / 38
p0 −188.7 ± 5.71
−100
−120
−140
−160
−180
−200
−220
−240
−260
−280
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 38.97
Std Dev 13.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

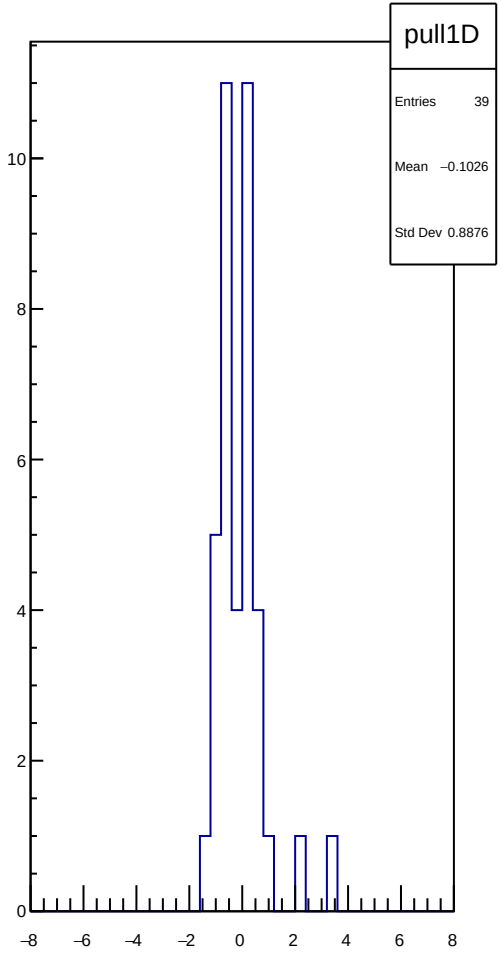

pull1D
Entries 39
Mean −0.05831
Std Dev 0.7092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

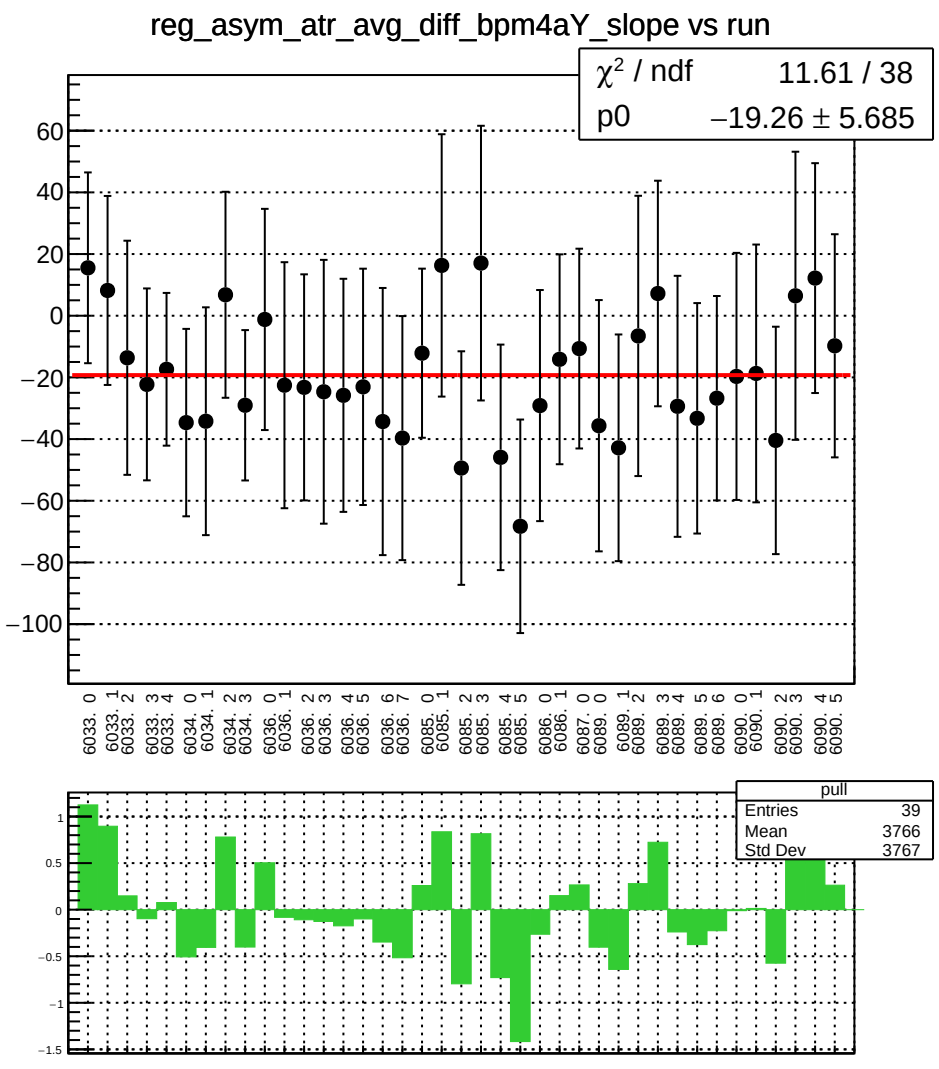

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.39 / 38
p0 −82.18 ± 3.379
−20
−40
−60
−80
−100
−120
−140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −5.161
Std Dev 50.02
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01799
Std Dev 0.5856
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

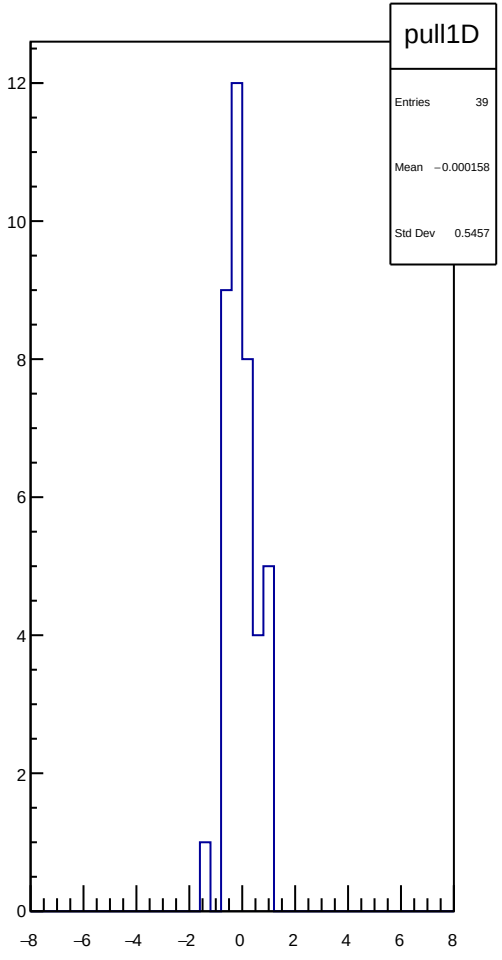

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 27.31 / 38
p0 84.66 ± 0.2613
88
86
84
82
80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 224.1
Std Dev 207.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

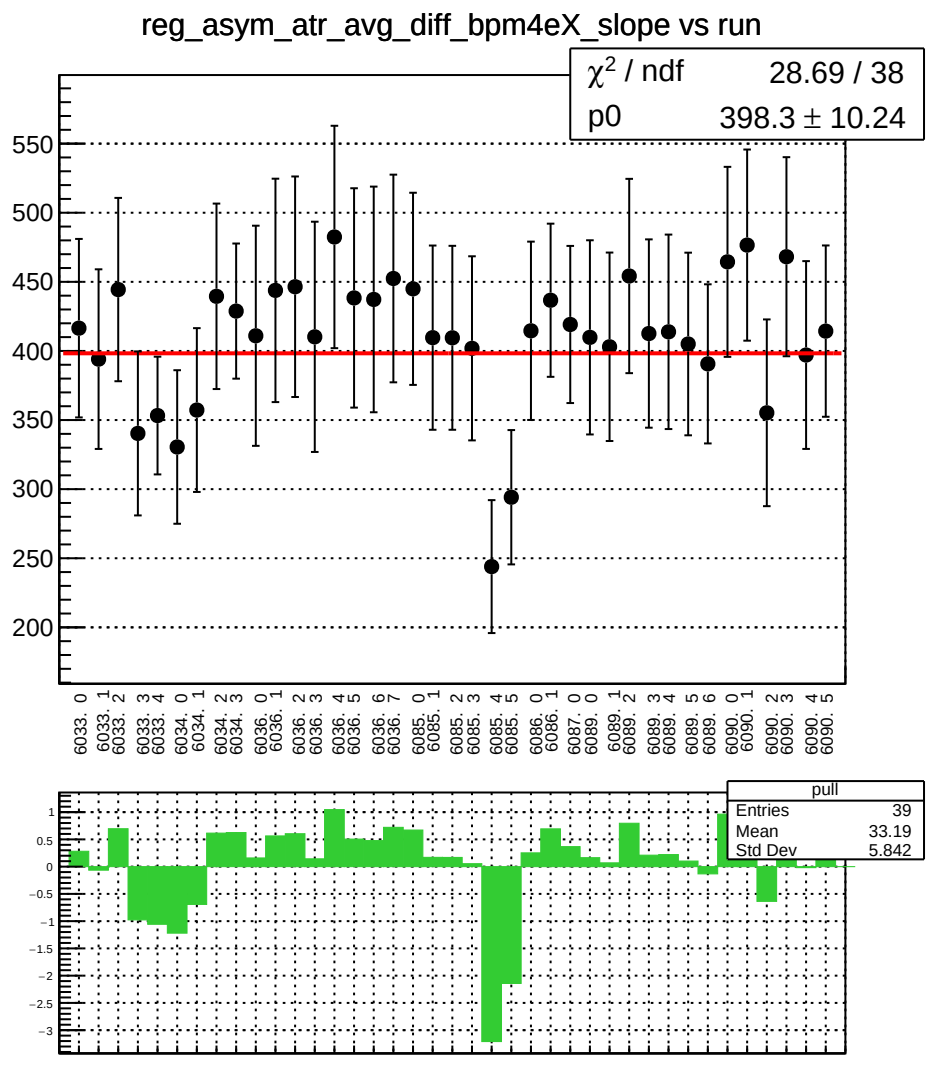

pull1D
Entries 39
Mean −0.00719
Std Dev 0.8368
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

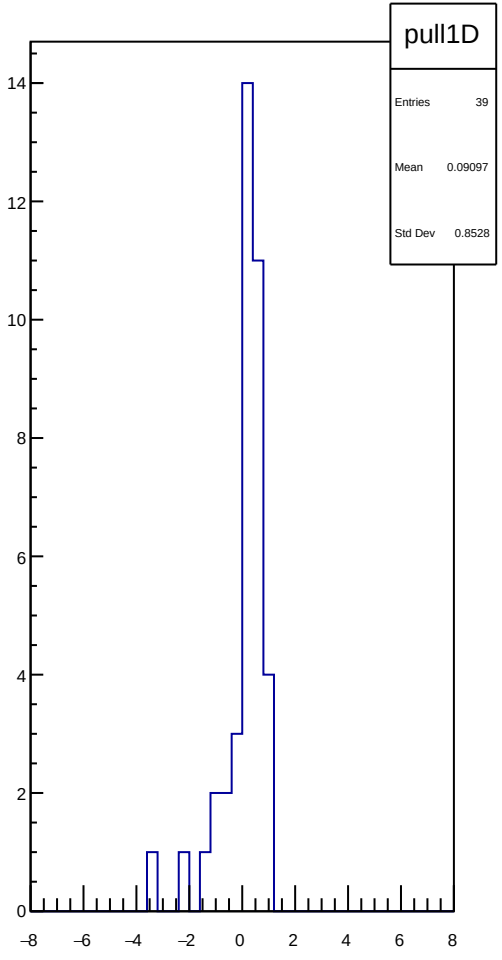

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.13 / 38
p0 −310.1± 9.13
−100
−150
−200
−250
−300
−350
−400
−450
−500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.164
Std Dev 7.047
3
2
1
0
−1

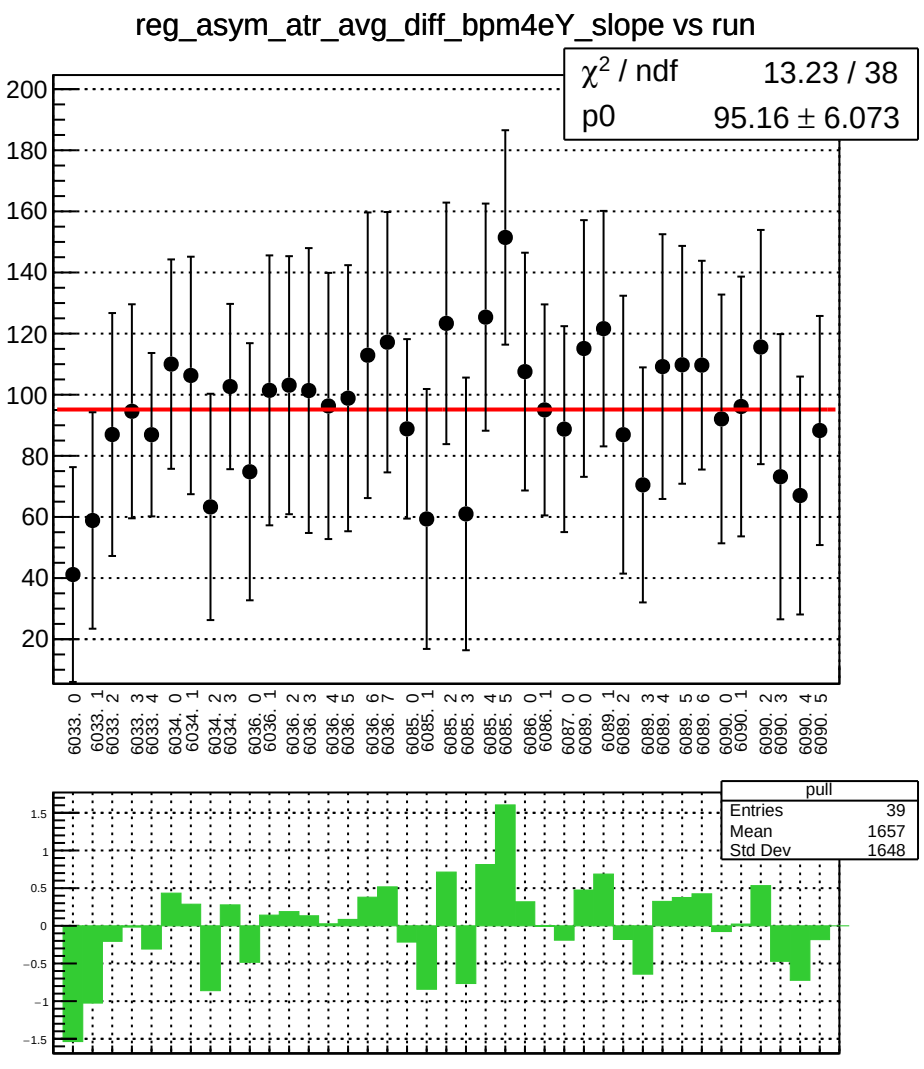

pull1D
Entries 39
Mean −0.1026
Std Dev 0.8876
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

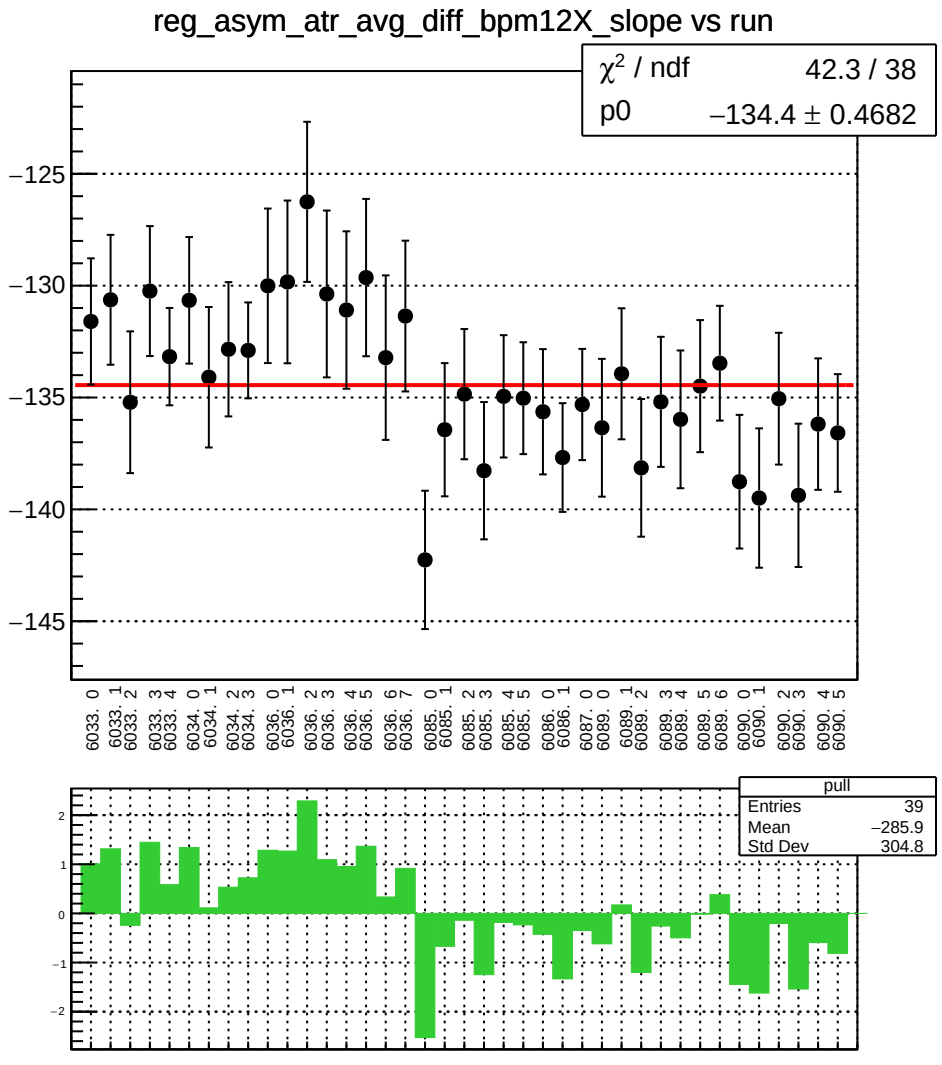

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.61 / 38
p0 −19.26 ± 5.685
60
40
20
0
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3766
Std Dev 3767
1
0.5
0
−0.5
−1
−1.5

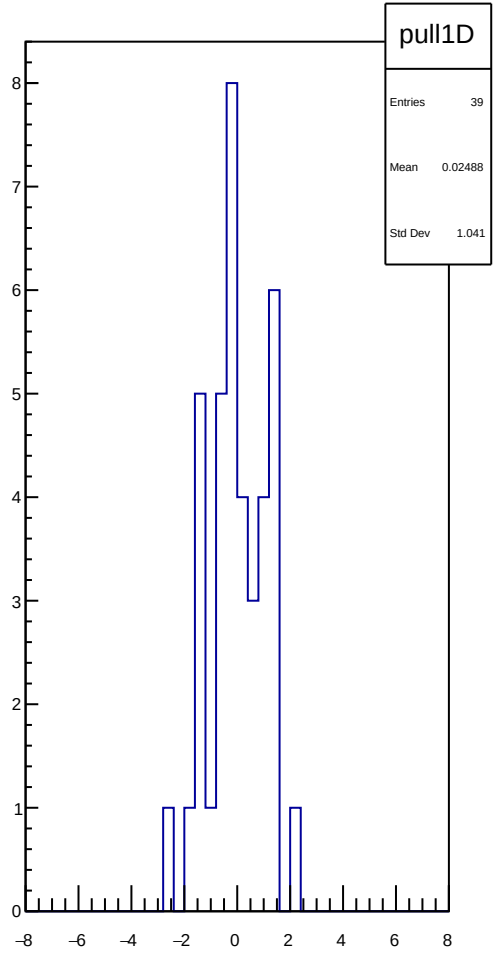

pull1D
Entries 39
Mean −0.000158
Std Dev 0.5457
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

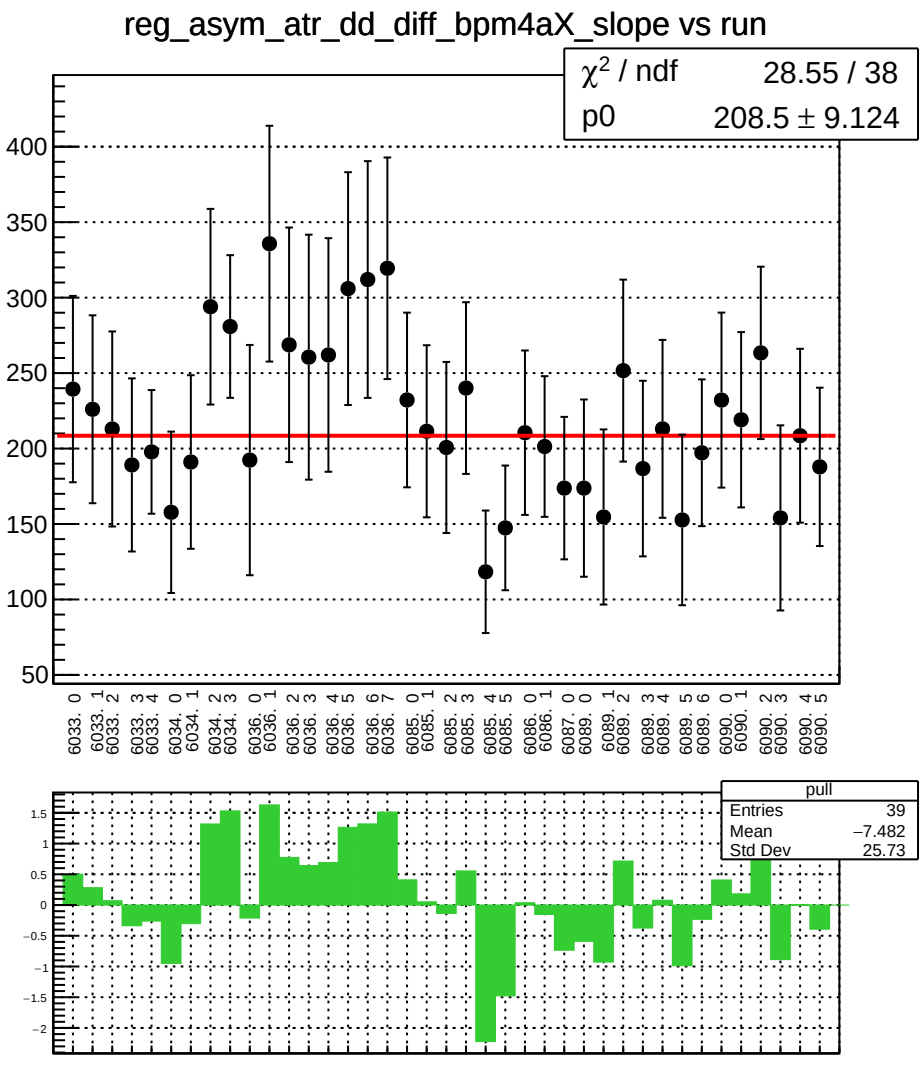

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.69 / 38
p0 398.3 ± 10.24
550
500
450
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 33.19
Std Dev 5.842
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

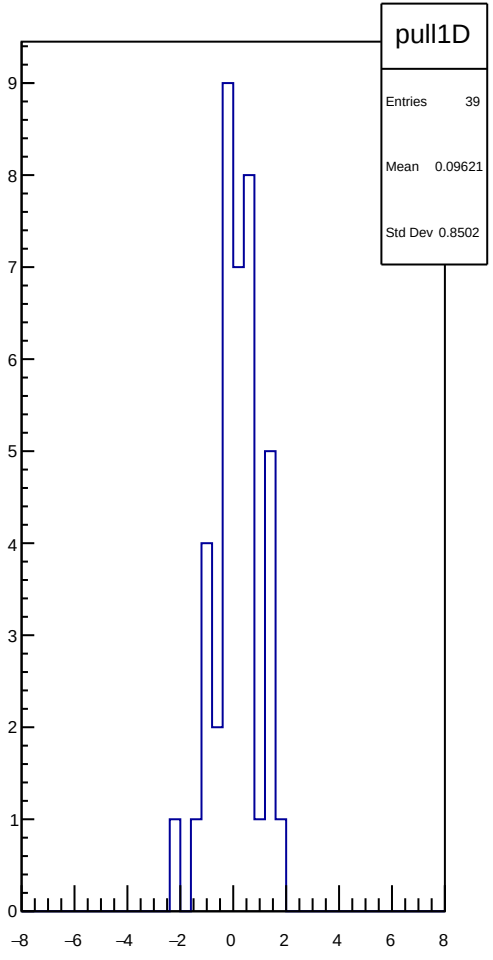

pull1D
Entries 39
Mean 0.09097
Std Dev 0.8528
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

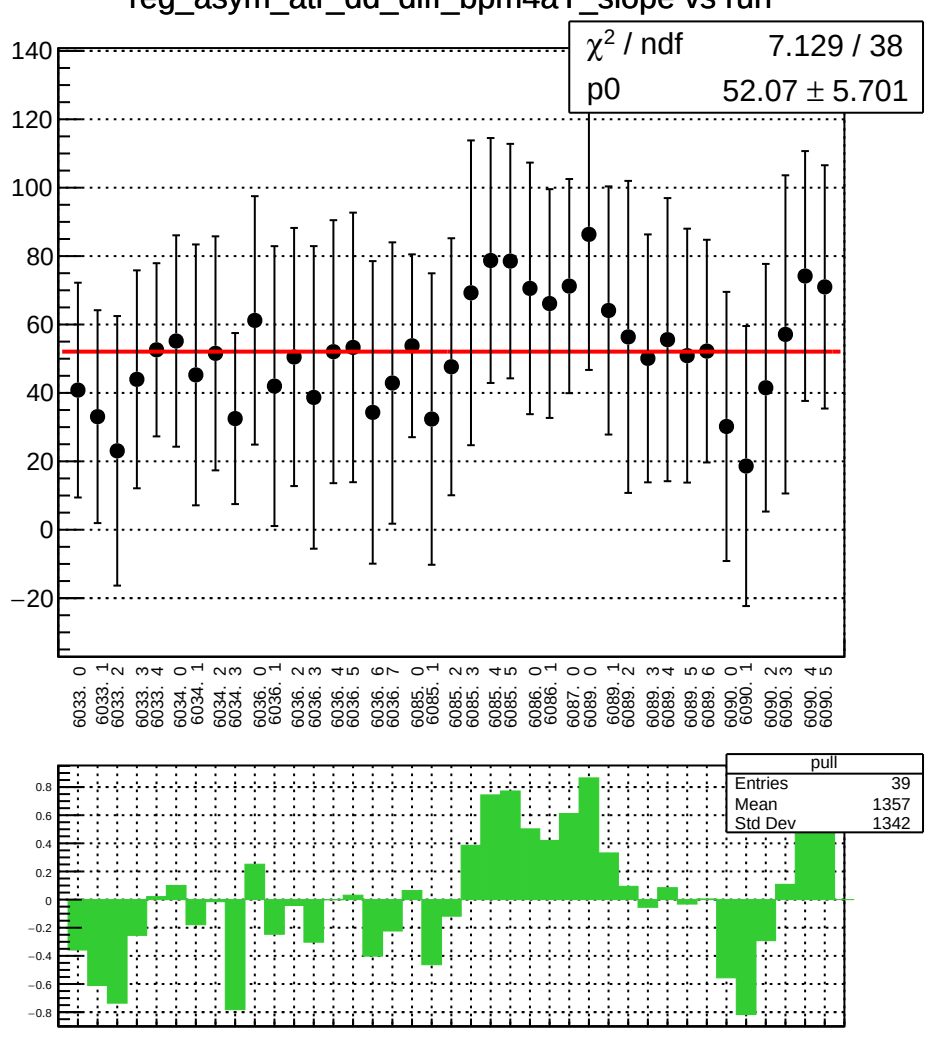

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.23 / 38
p0 95.16 ± 6.073
200
180
160
140
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 1657
Std Dev 1648
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0008725
Std Dev 0.5824
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

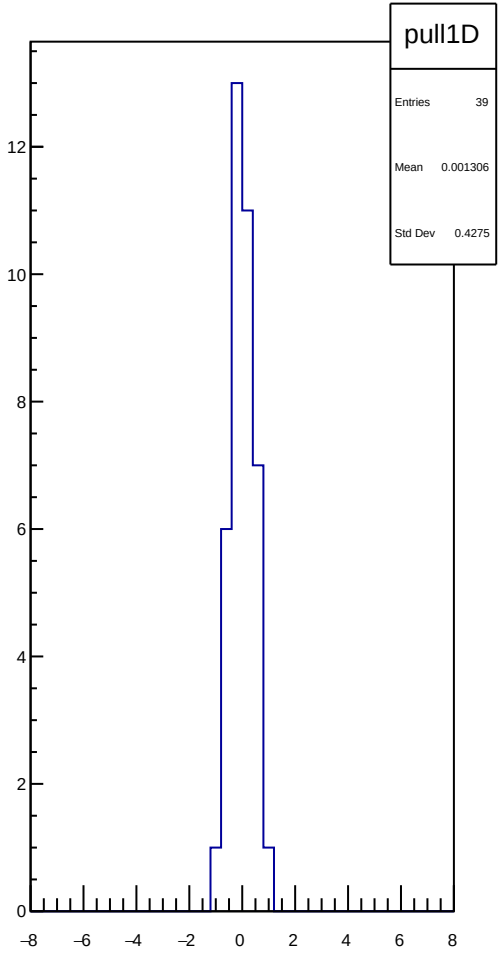

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 42.3 / 38
p0 −134.4 ± 0.4682
−125
−130
−135
−140
−145
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −285.9
Std Dev 304.8
2
1
0
−1
−2

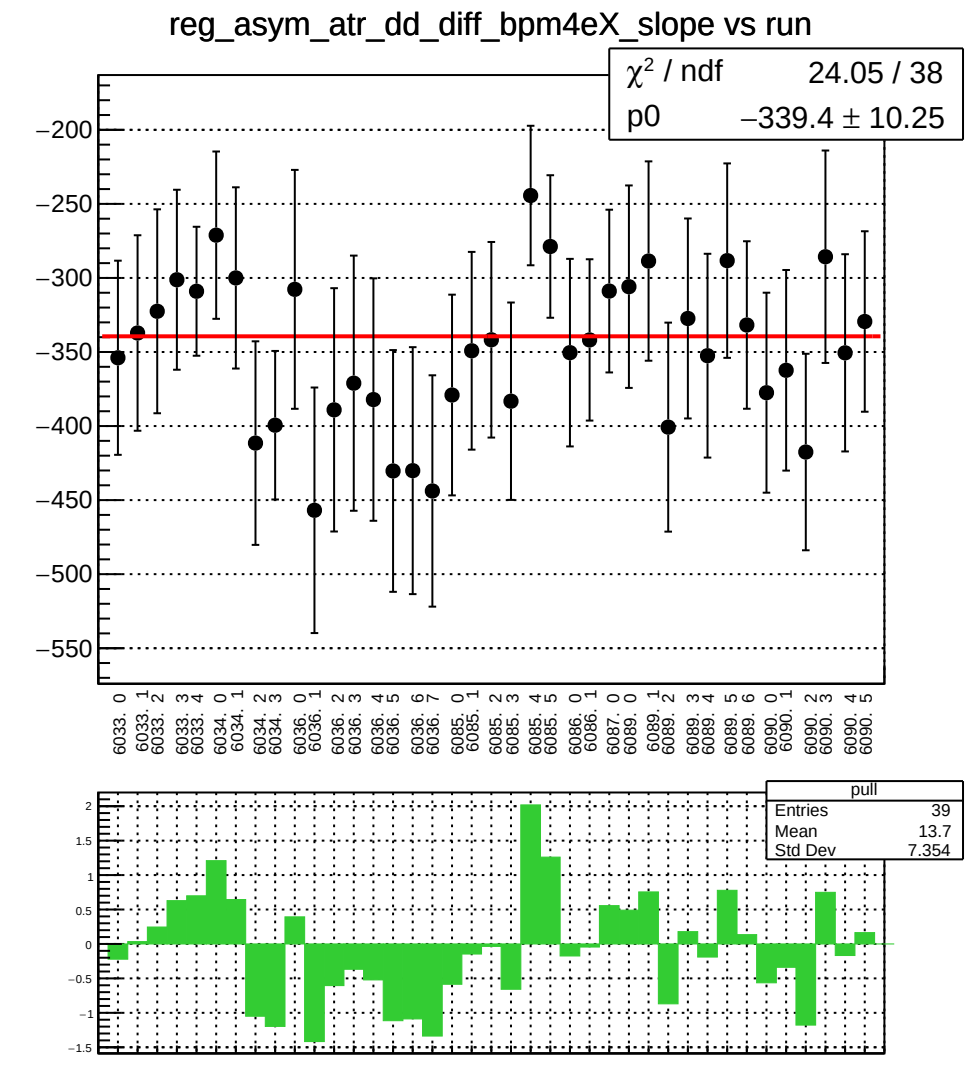

pull1D
Entries 39
Mean 0.02488
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

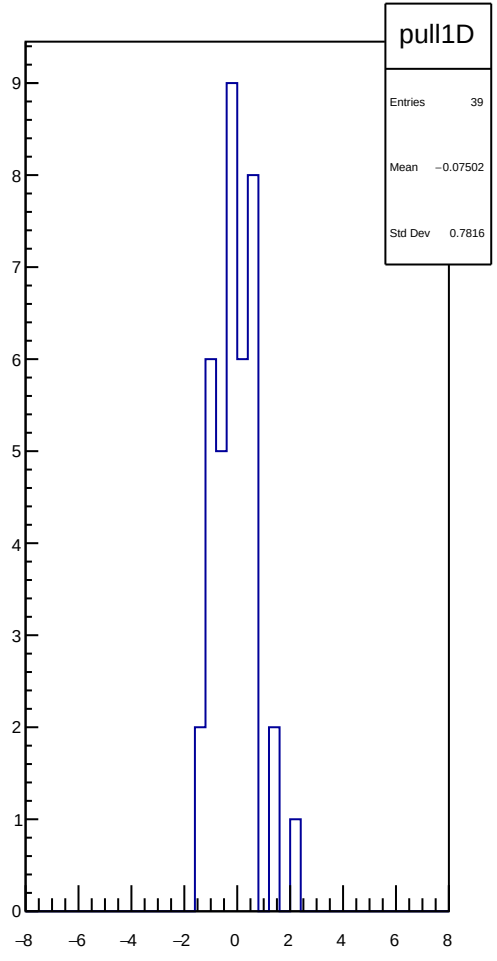

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.55 / 38
p0 208.5 ± 9.124
400
350
300
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −7.482
Std Dev 25.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

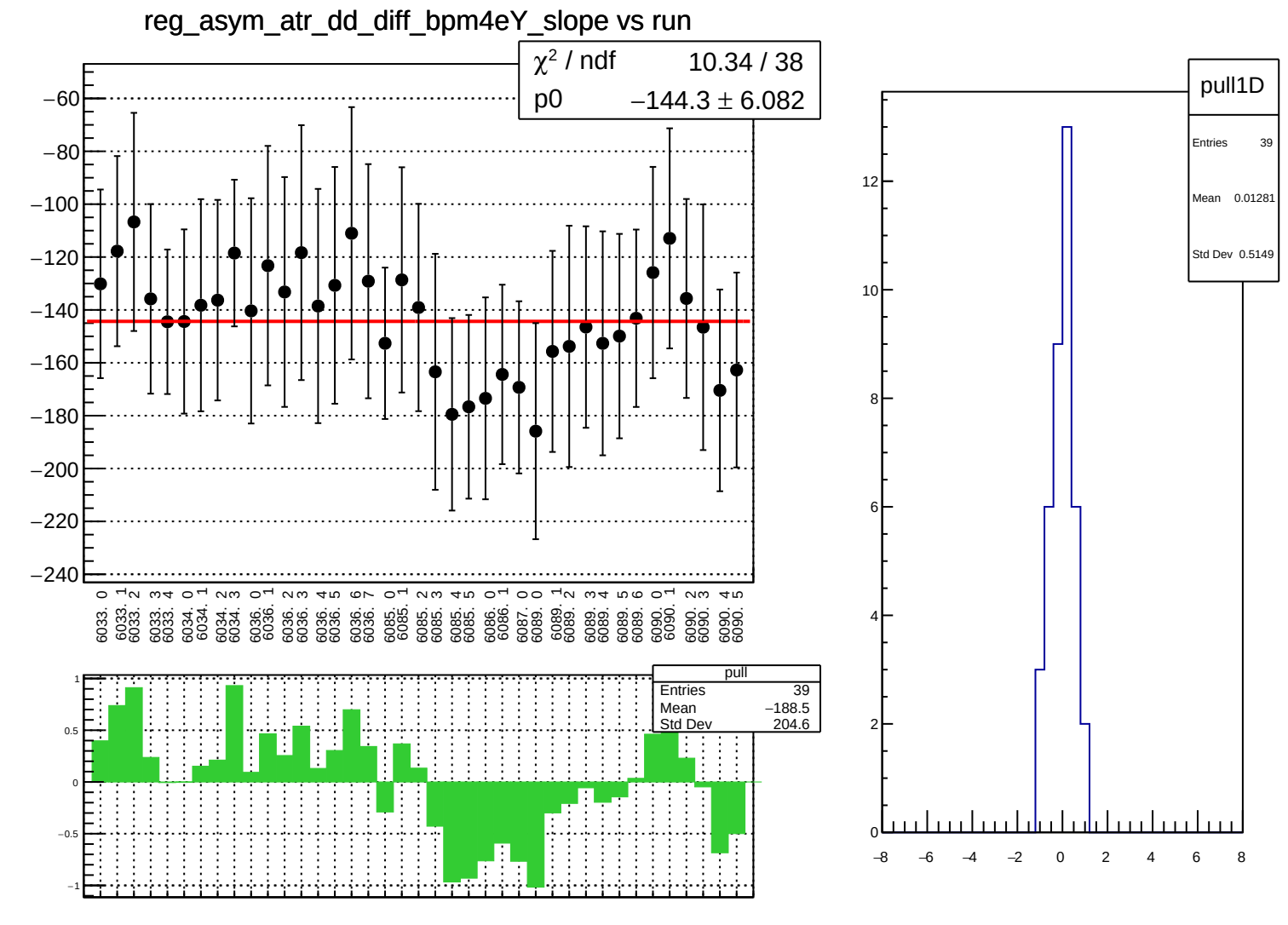

pull1D
Entries 39
Mean 0.09621
Std Dev 0.8502
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

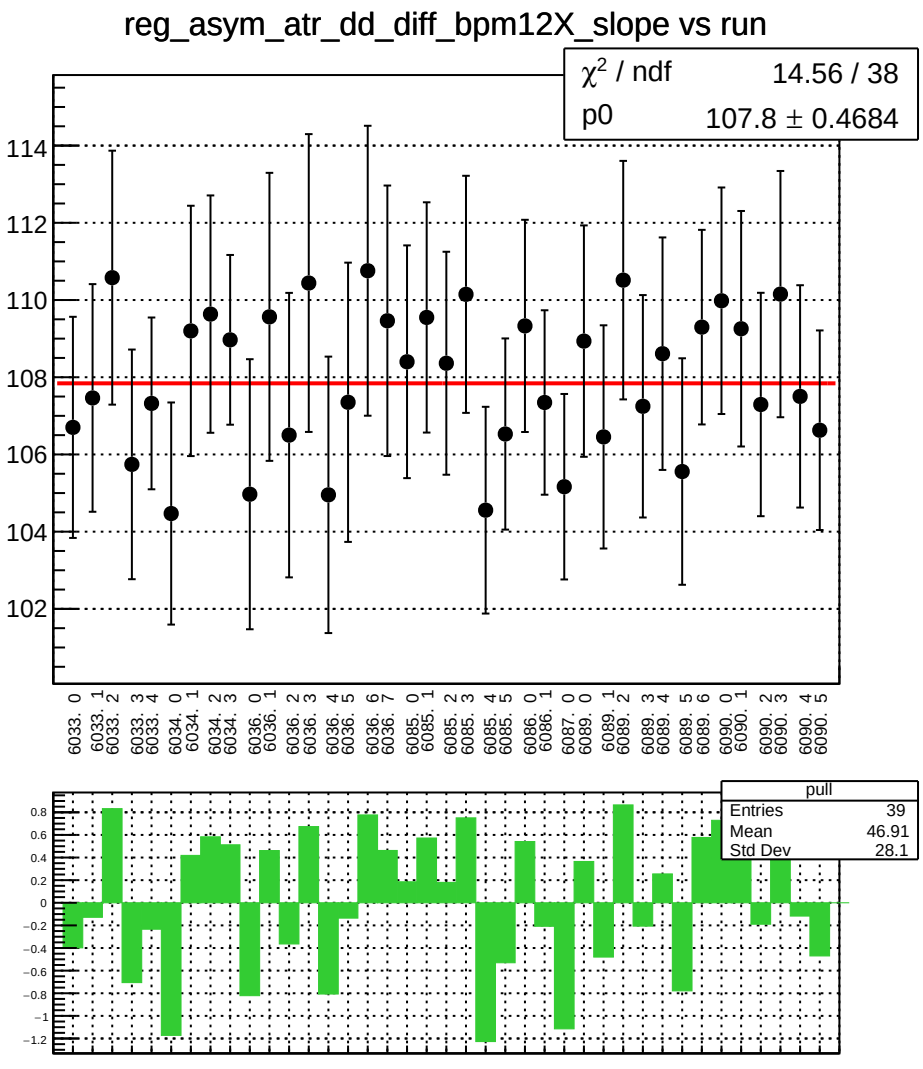

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.129 / 38
p0 52.07 ± 5.701
pull
Entries 39
Mean 1357
Std Dev 1342

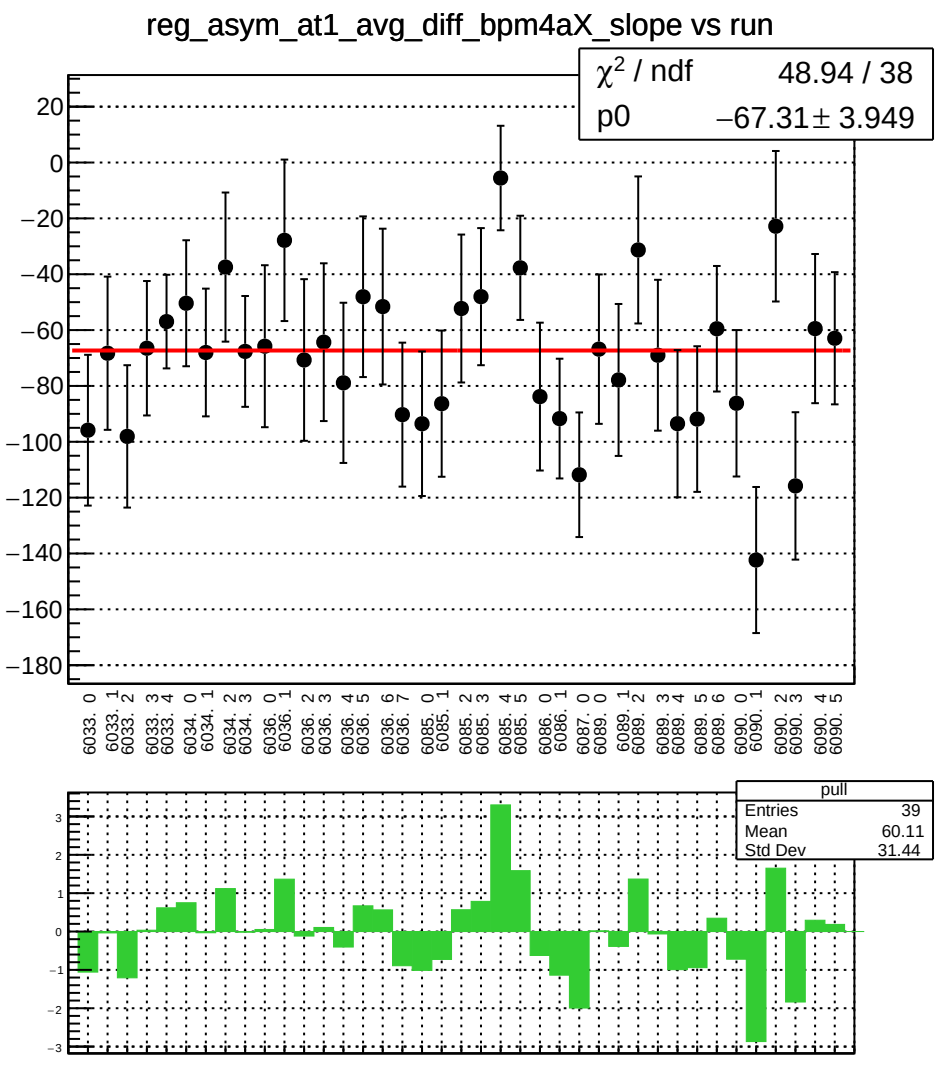

pull1D
Entries 39
Mean 0.001306
Std Dev 0.4275

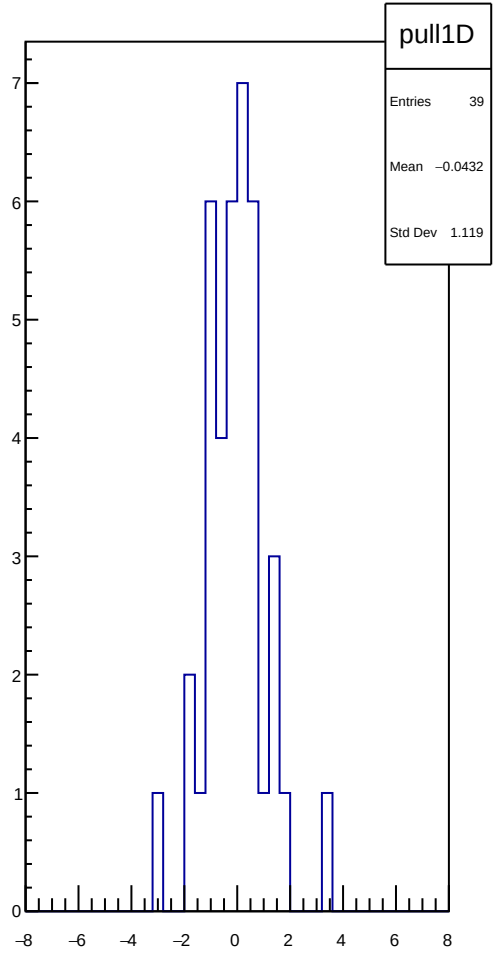

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.05 / 38
p0 −339.4 ± 10.25
pull
Entries 39
Mean 13.7
Std Dev 7.354

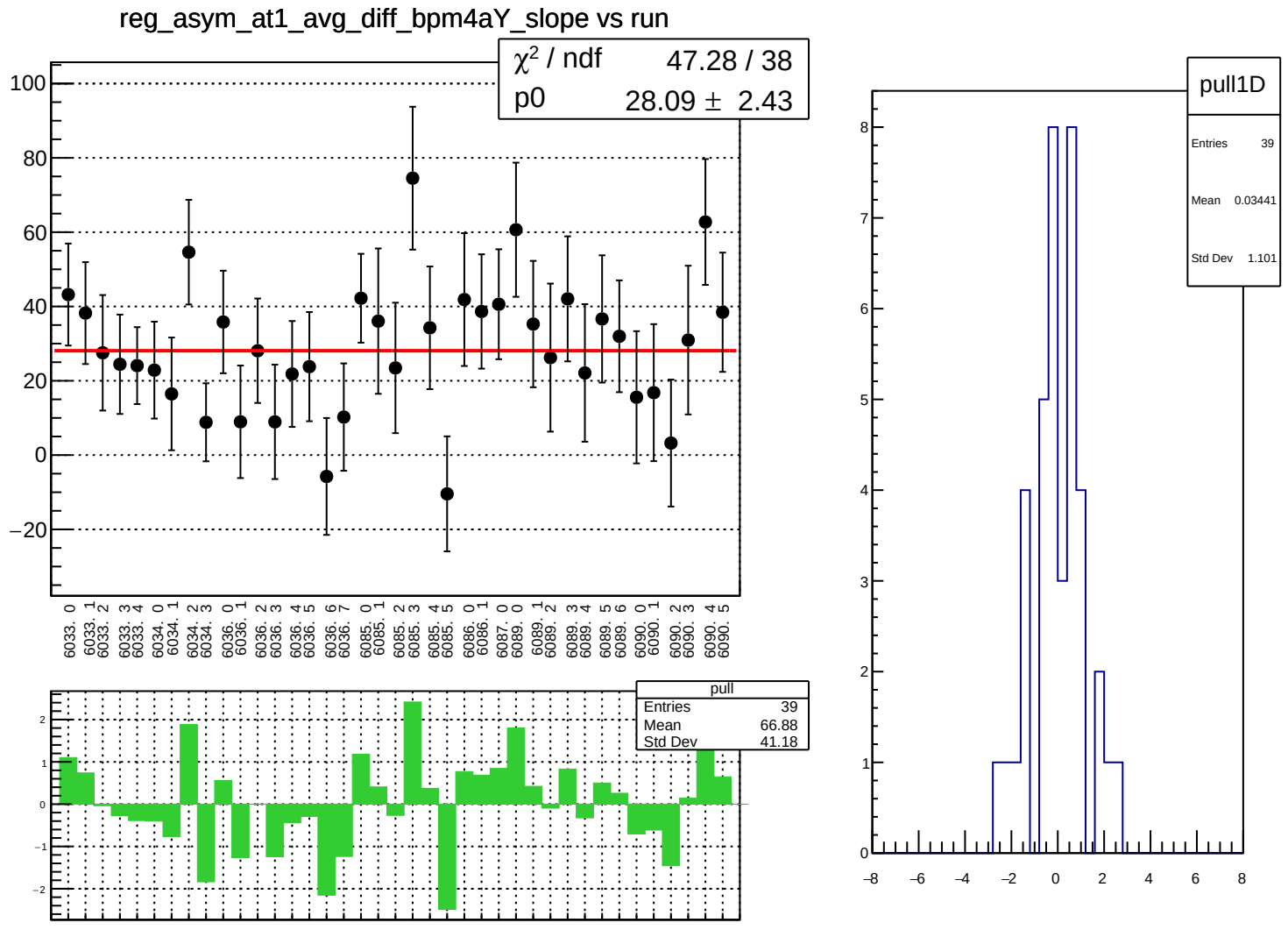

pull1D
Entries 39
Mean −0.07502
Std Dev 0.7816

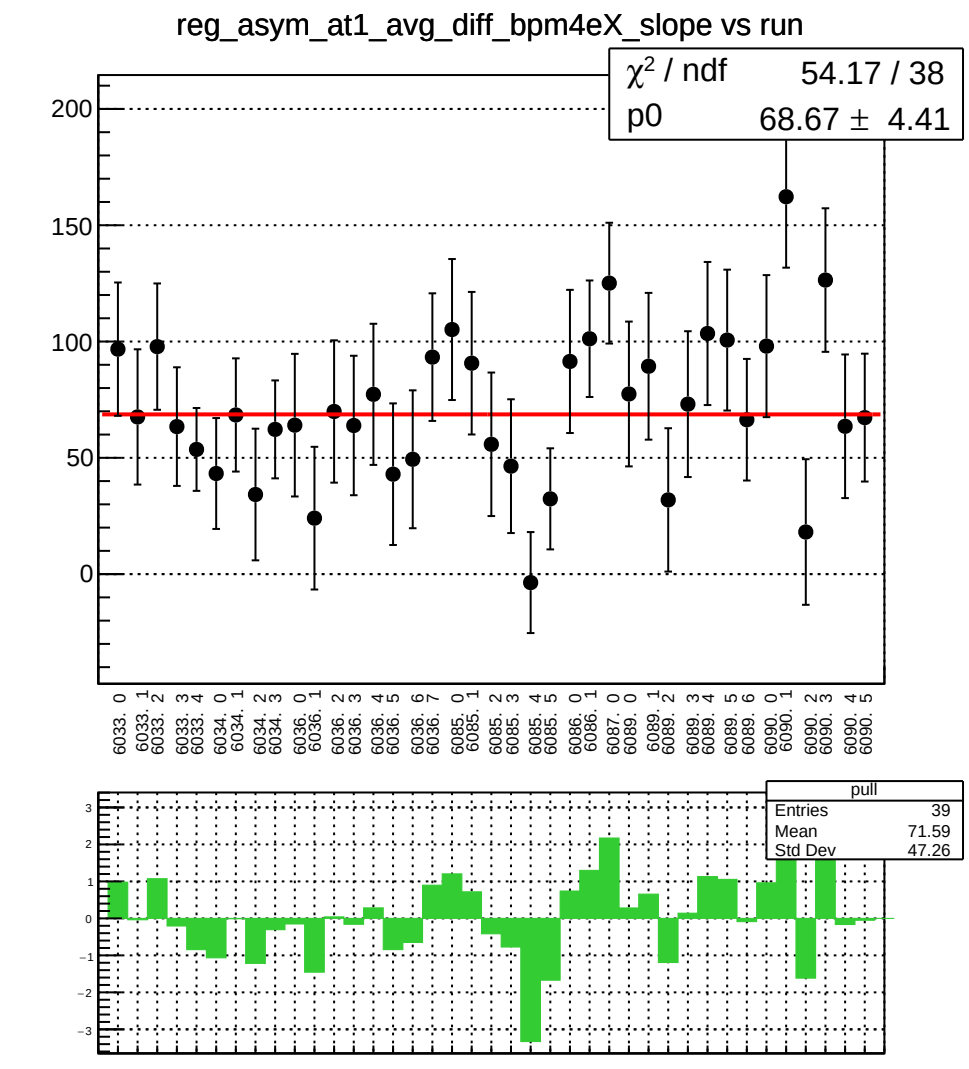

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.34 / 38
p0 −144.3 ± 6.082
pull
Entries 39
Mean −188.5
Std Dev 204.6
pull1D
Entries 39
Mean 0.01281
Std Dev 0.5149

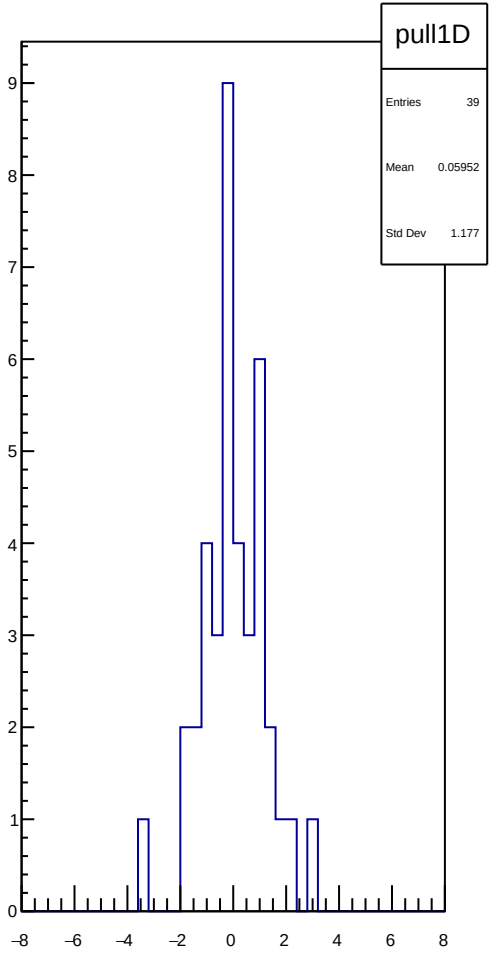

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 14.56 / 38
p0 107.8 ± 0.4684
114
112
110
108
106
104
102
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 46.91
Std Dev 28.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 39
Mean 0.02166
Std Dev 0.6106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

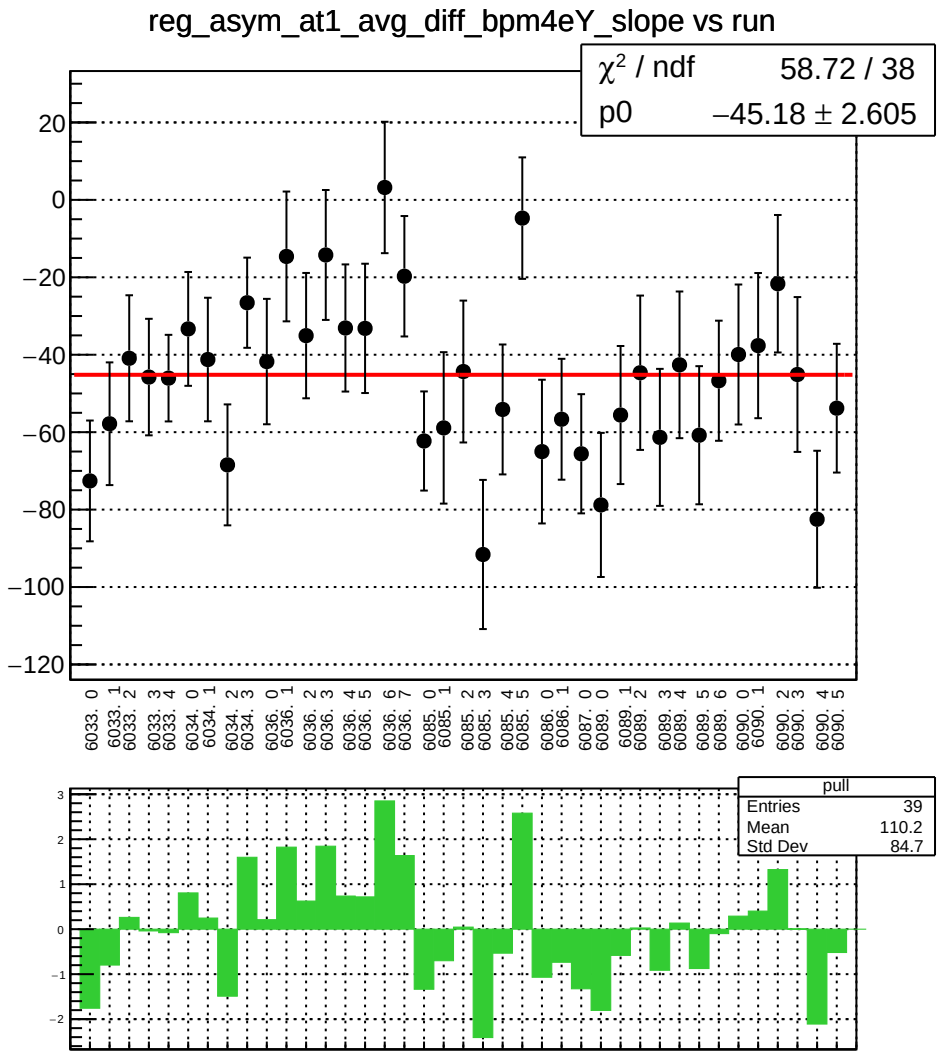

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.94 / 38
p0 −67.31 ± 3.949
pull
Entries 39
Mean 60.11
Std Dev 31.44

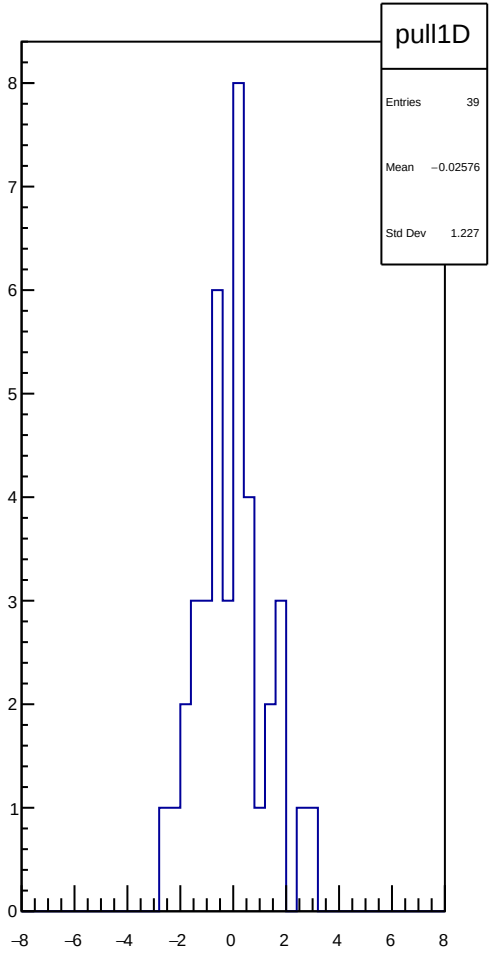

pull1D
Entries 39
Mean −0.0432
Std Dev 1.119

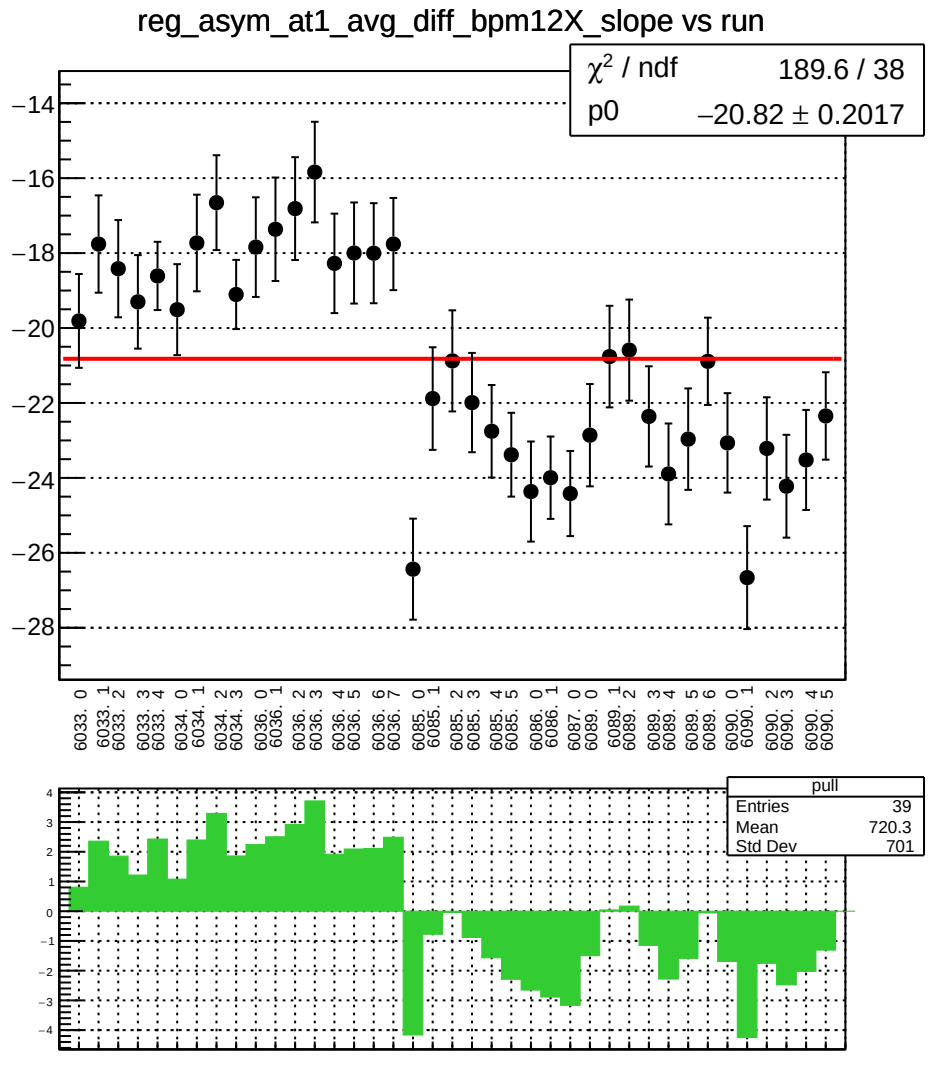

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.28 / 38
p0 28.09 ± 2.43
100
80
60
40
20
0
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 66.88
Std Dev 41.18
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03441
Std Dev 1.101
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

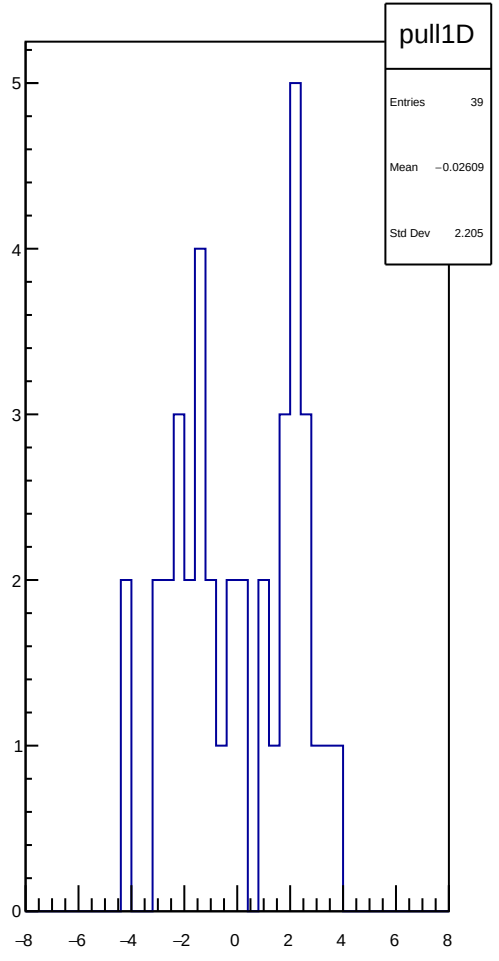

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.17 / 38
p0 68.67 ± 4.41
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 71.59
Std Dev 47.26
3
2
1
0
−1
−2
−3

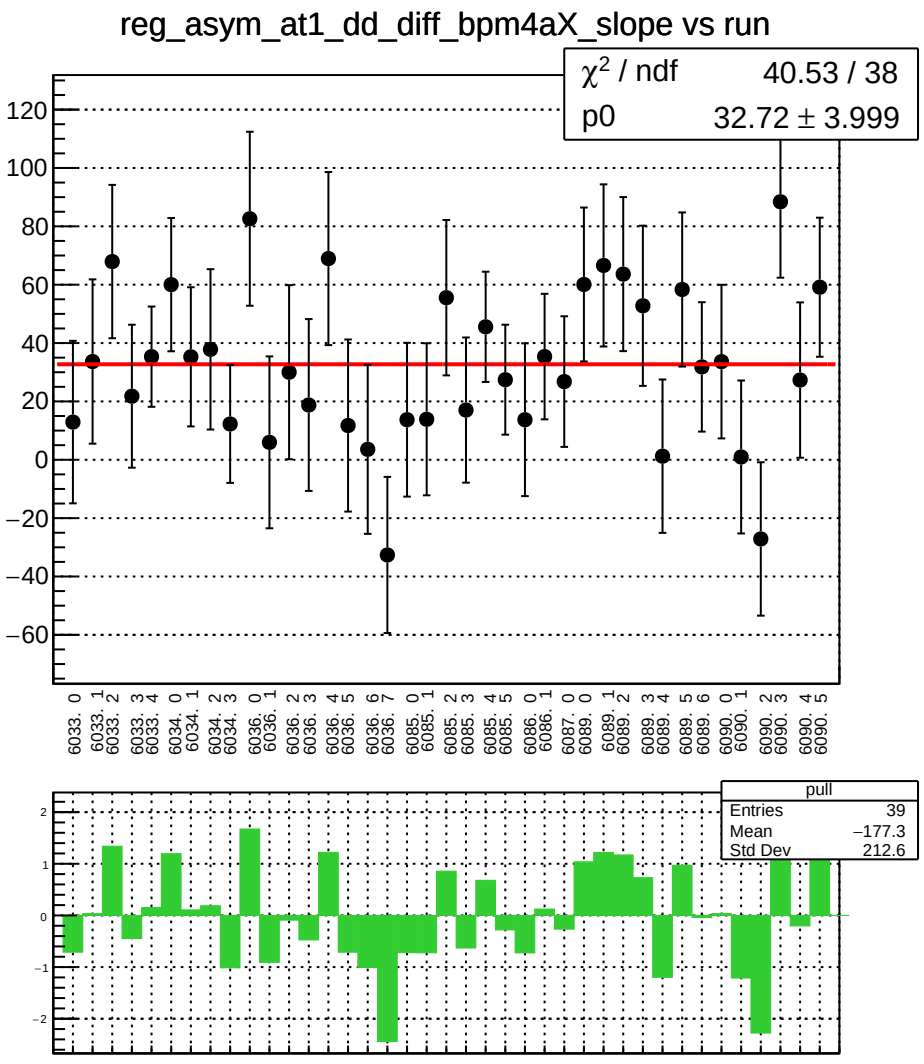

pull1D
Entries 39
Mean 0.05952
Std Dev 1.177
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

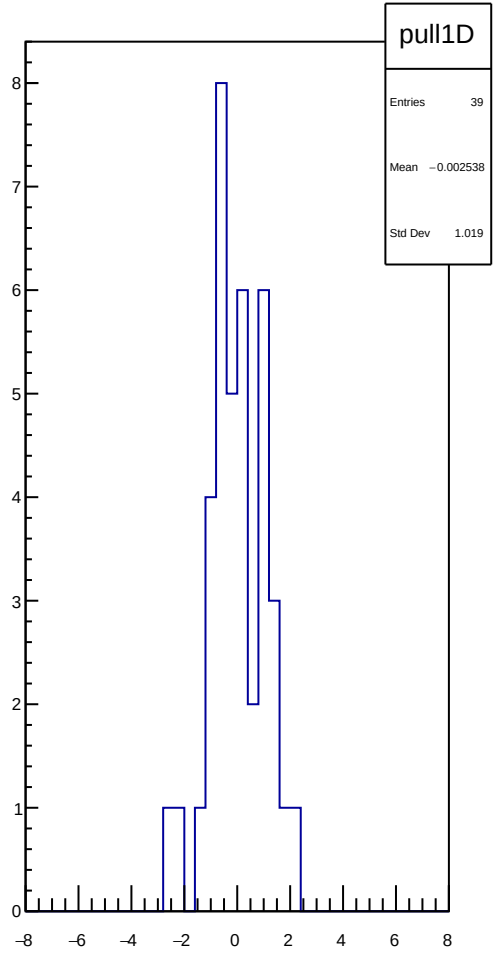

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.72 / 38
p0 −45.18 ± 2.605
20
0
−20
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 110.2
Std Dev 84.7
3
2
1
0
−1
−2

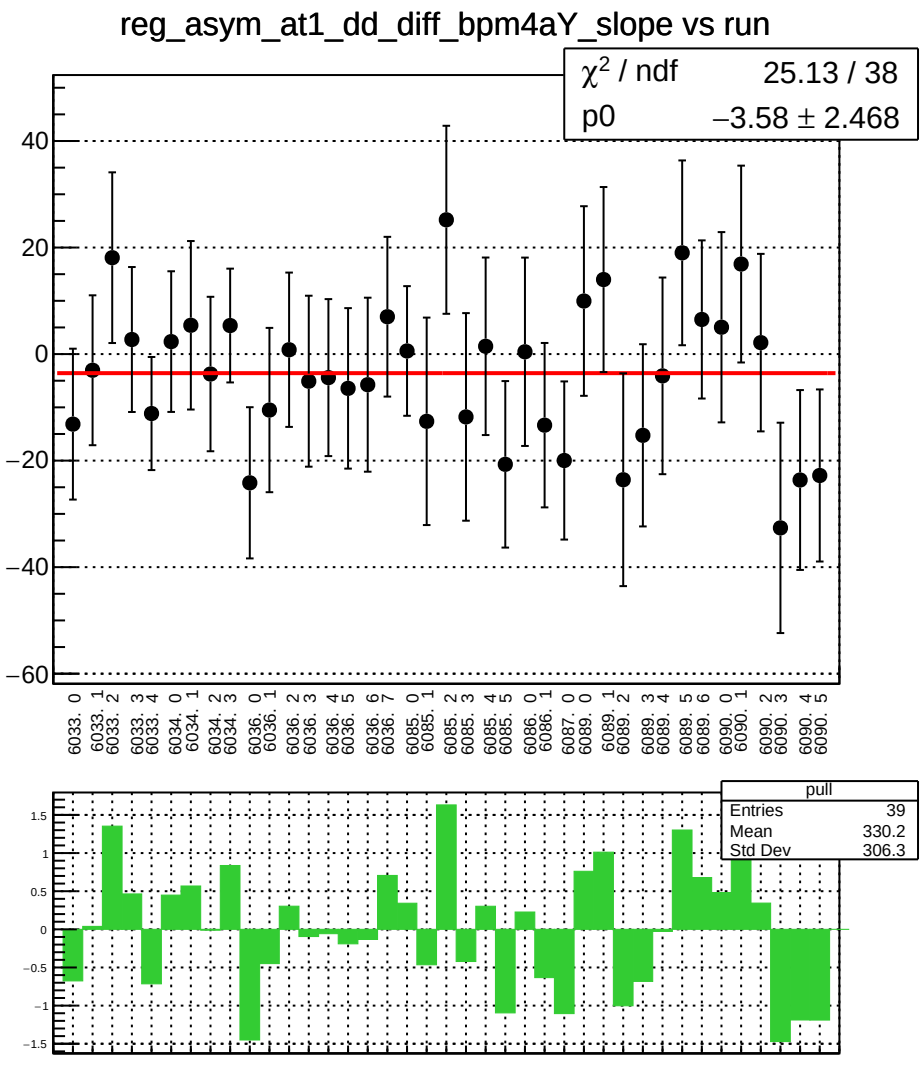

pull1D
Entries 39
Mean −0.02576
Std Dev 1.227
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

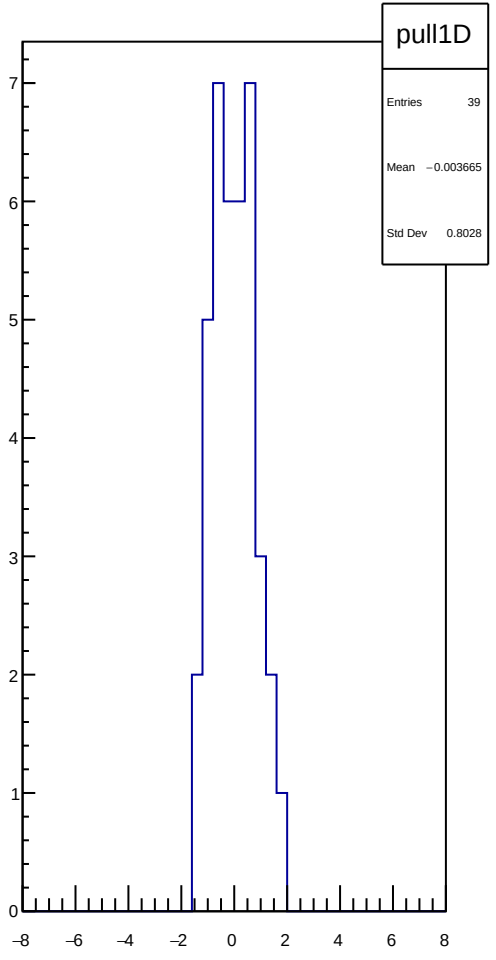

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 189.6 / 38
p0 −20.82 ± 0.2017
pull
Entries 39
Mean 720.3
Std Dev 701

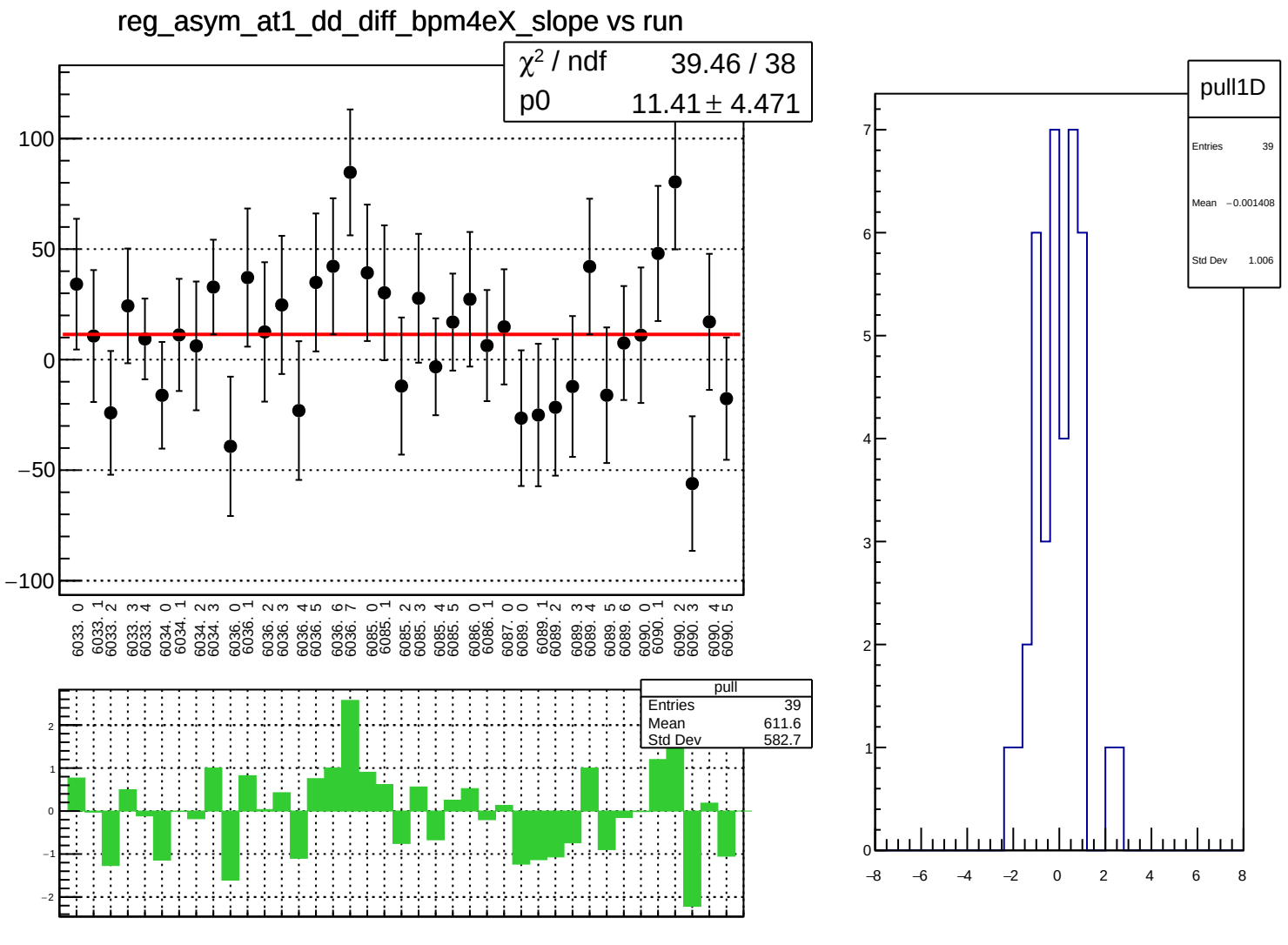

pull1D
Entries 39
Mean −0.02609
Std Dev 2.205

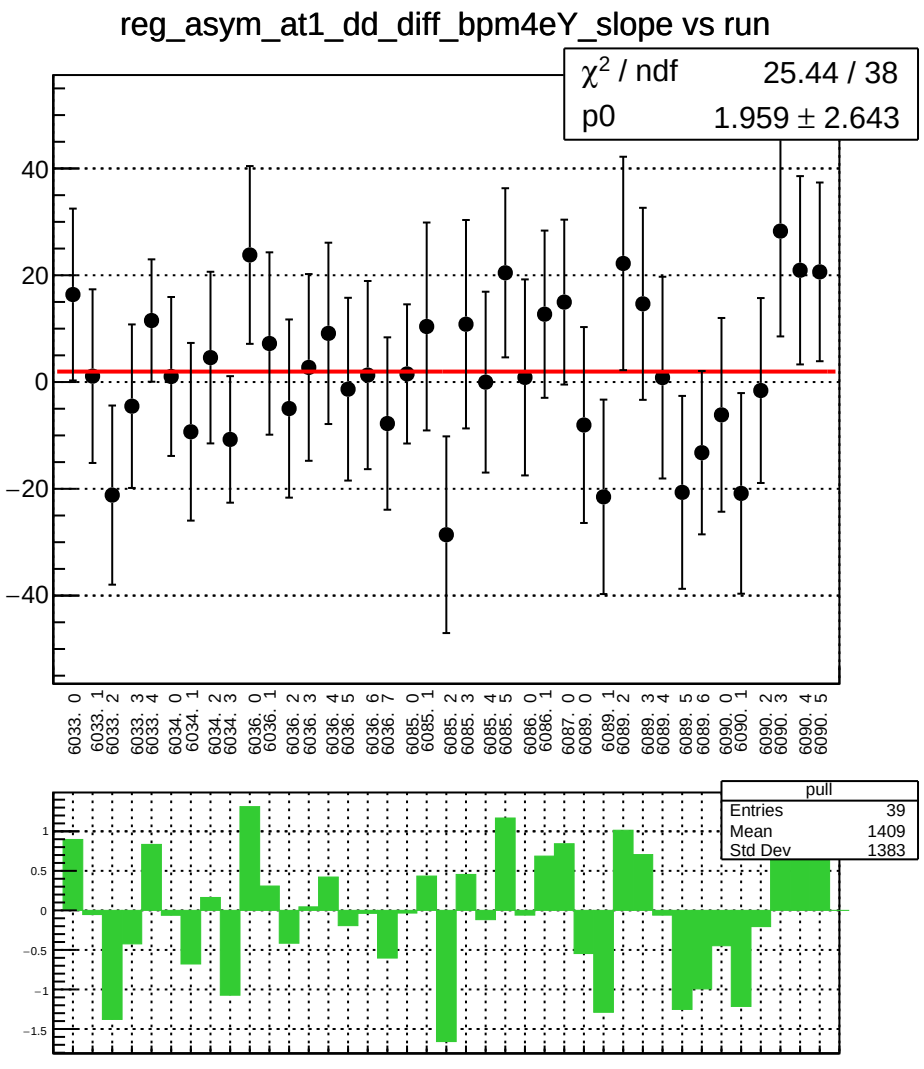

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.53 / 38
p0 32.72 ± 3.999
120
100
80
60
40
20
0
−20
−40
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −177.3
Std Dev 212.6
2
1
0
−1
−2

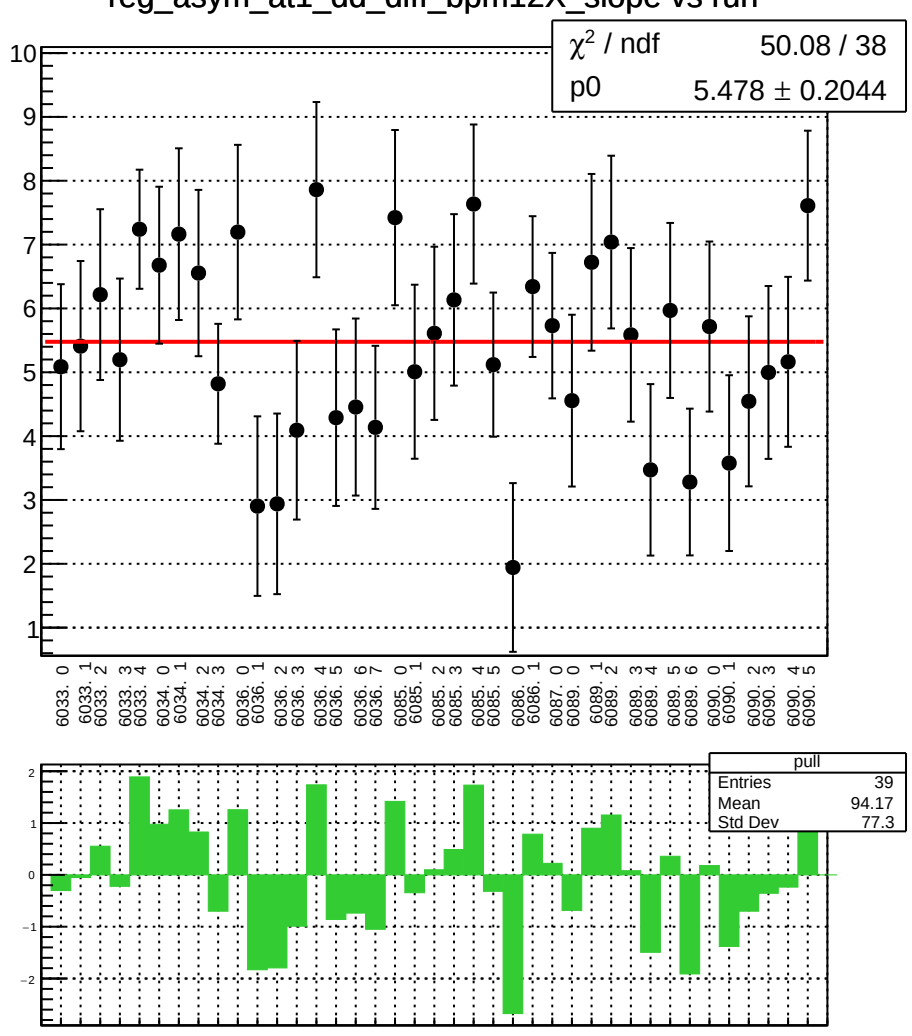

pull1D
Entries 39
Mean −0.002538
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

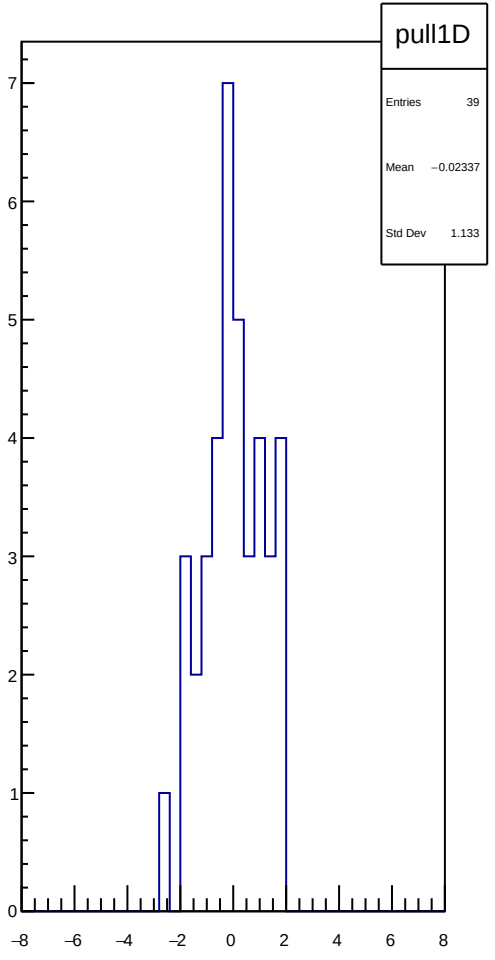

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.13 / 38
p0 −3.58 ± 2.468
pull
Entries 39
Mean 330.2
Std Dev 306.3

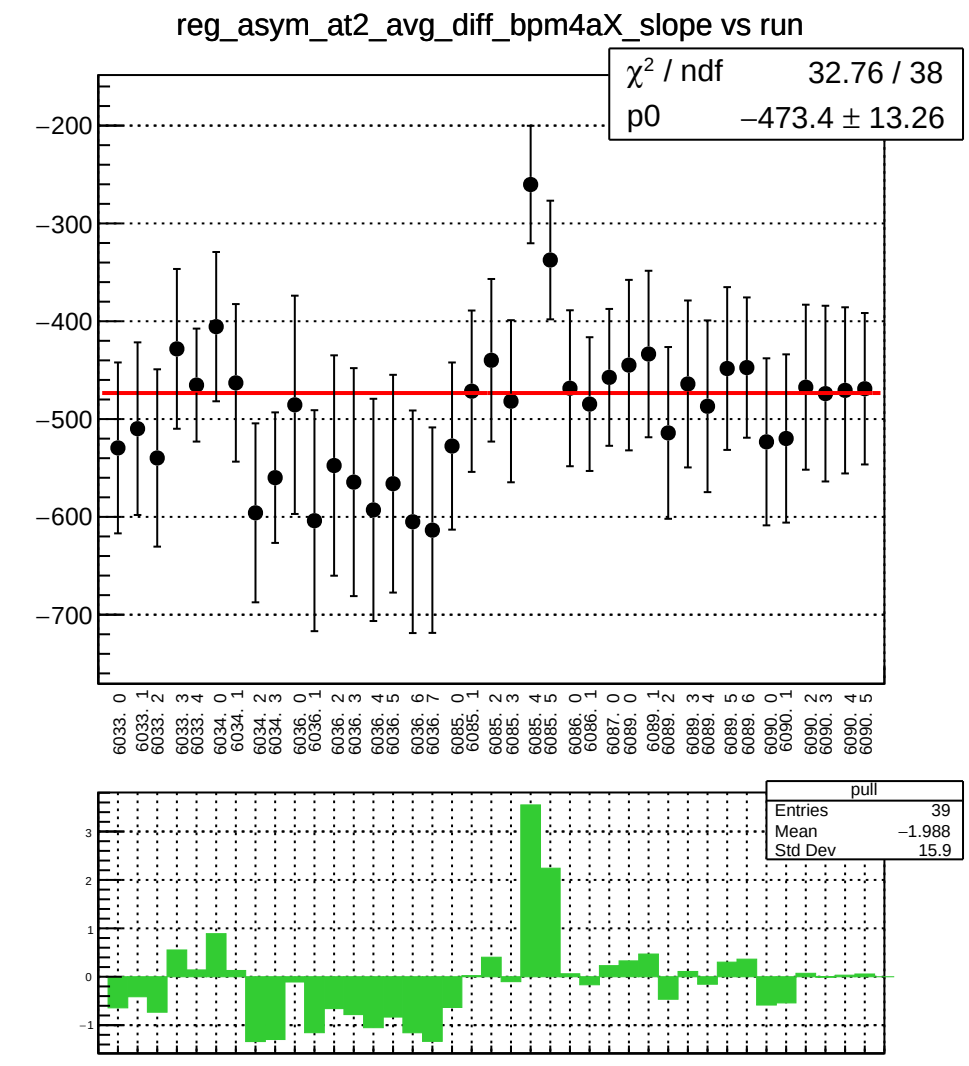

pull1D
Entries 39
Mean −0.003665
Std Dev 0.8028

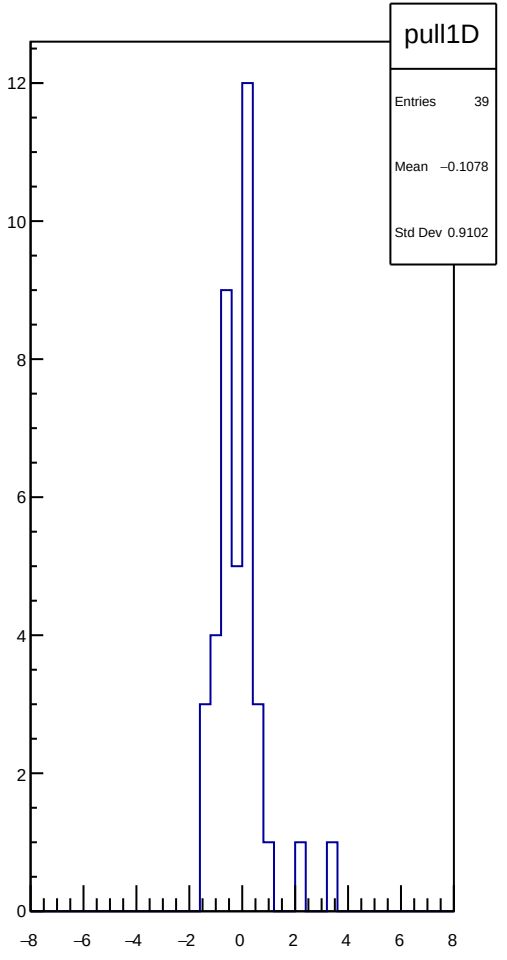

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.46 / 38
p0 11.41 ± 4.471
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 611.6
Std Dev 582.7
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.001408
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

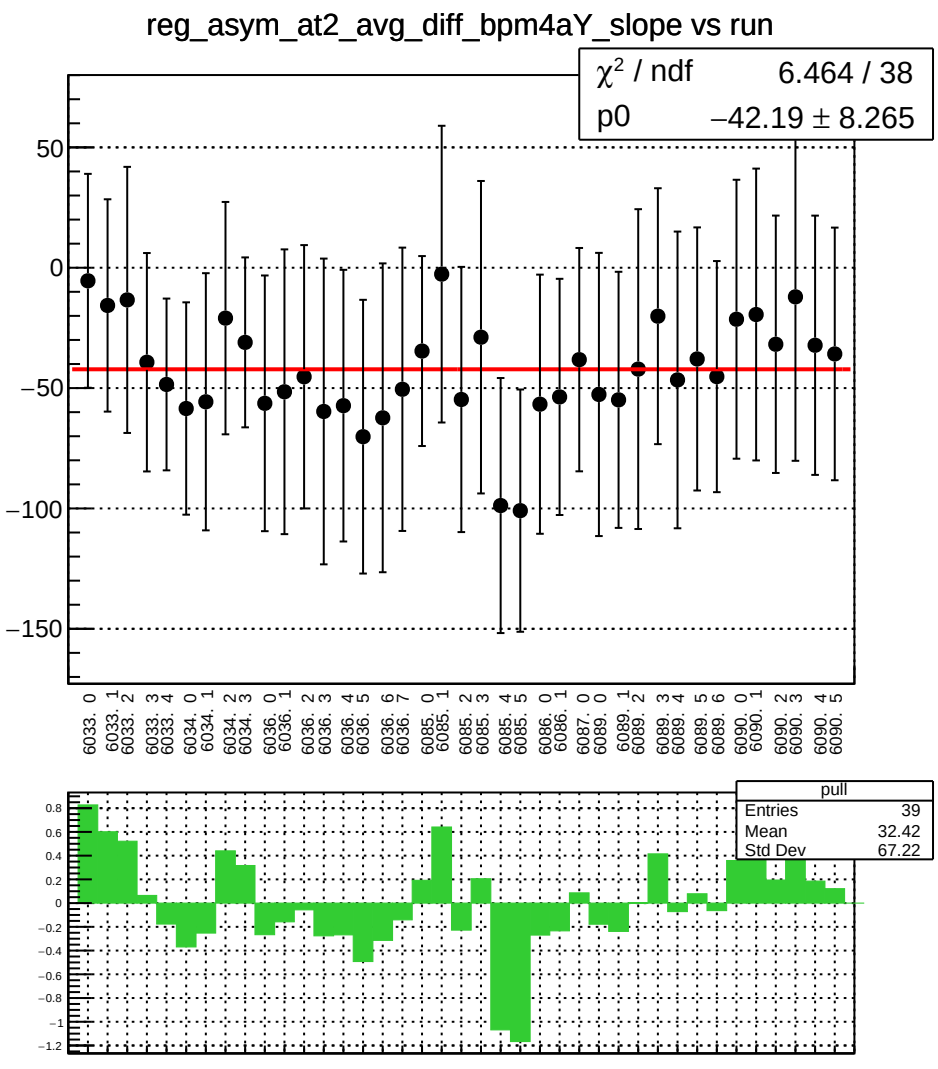

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.44 / 38
p0 1.959 ± 2.643
40
20
0
−20
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 1409
Std Dev 1383
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0005387
Std Dev 0.8077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

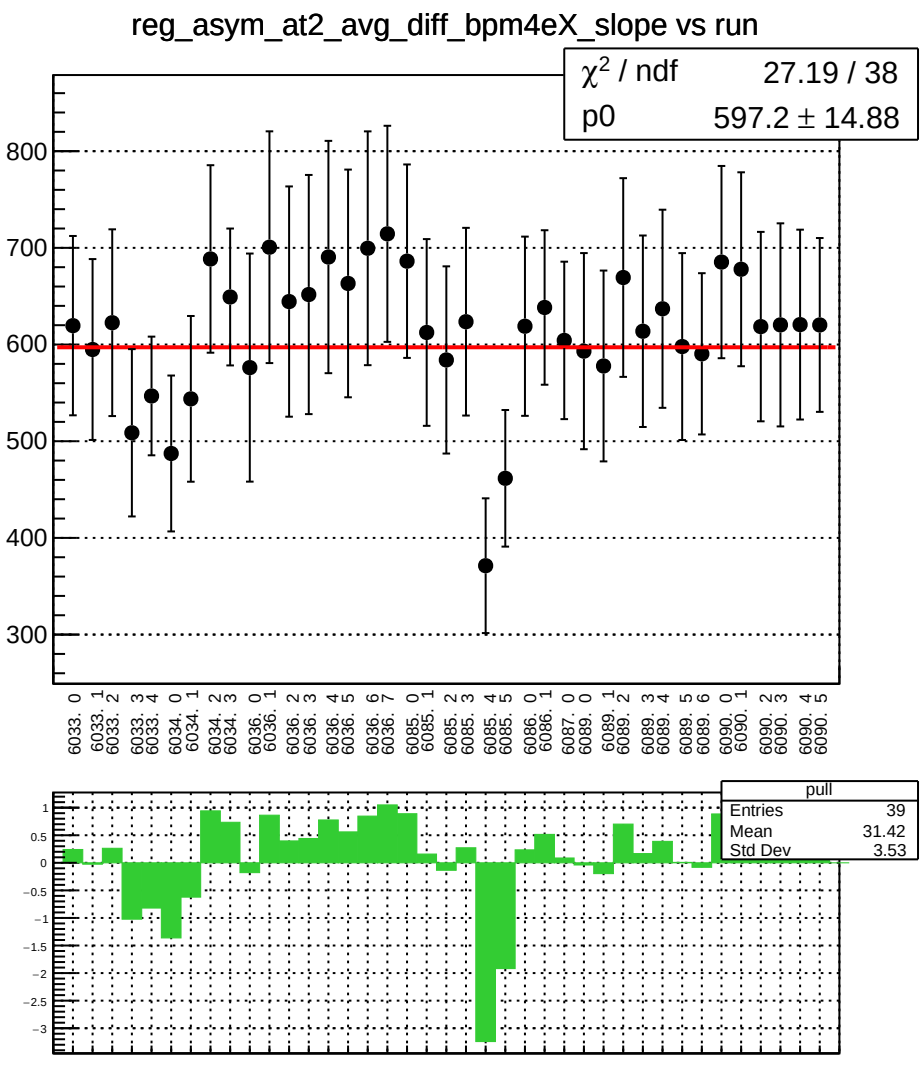

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 50.08 / 38
p0 5.478 ± 0.2044
pull
Entries 39
Mean 94.17
Std Dev 77.3

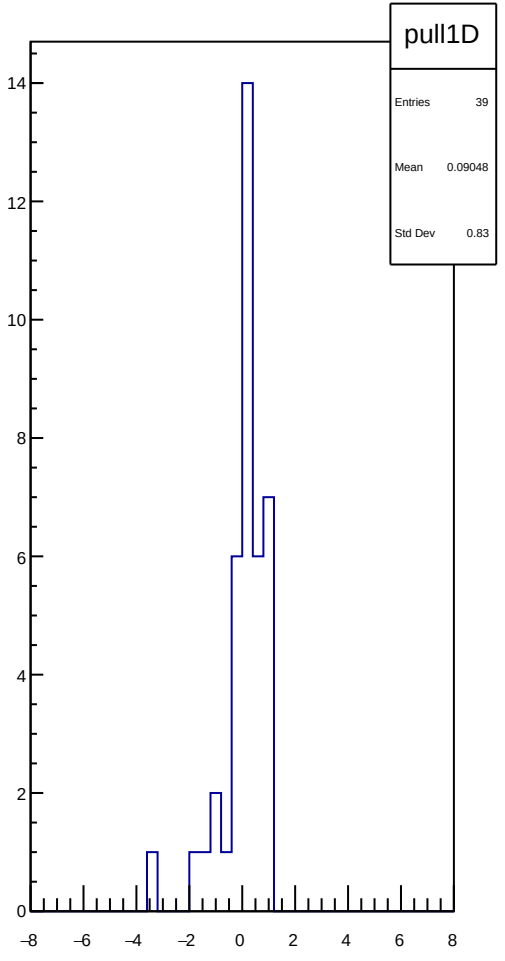

pull1D
Entries 39
Mean −0.02337
Std Dev 1.133

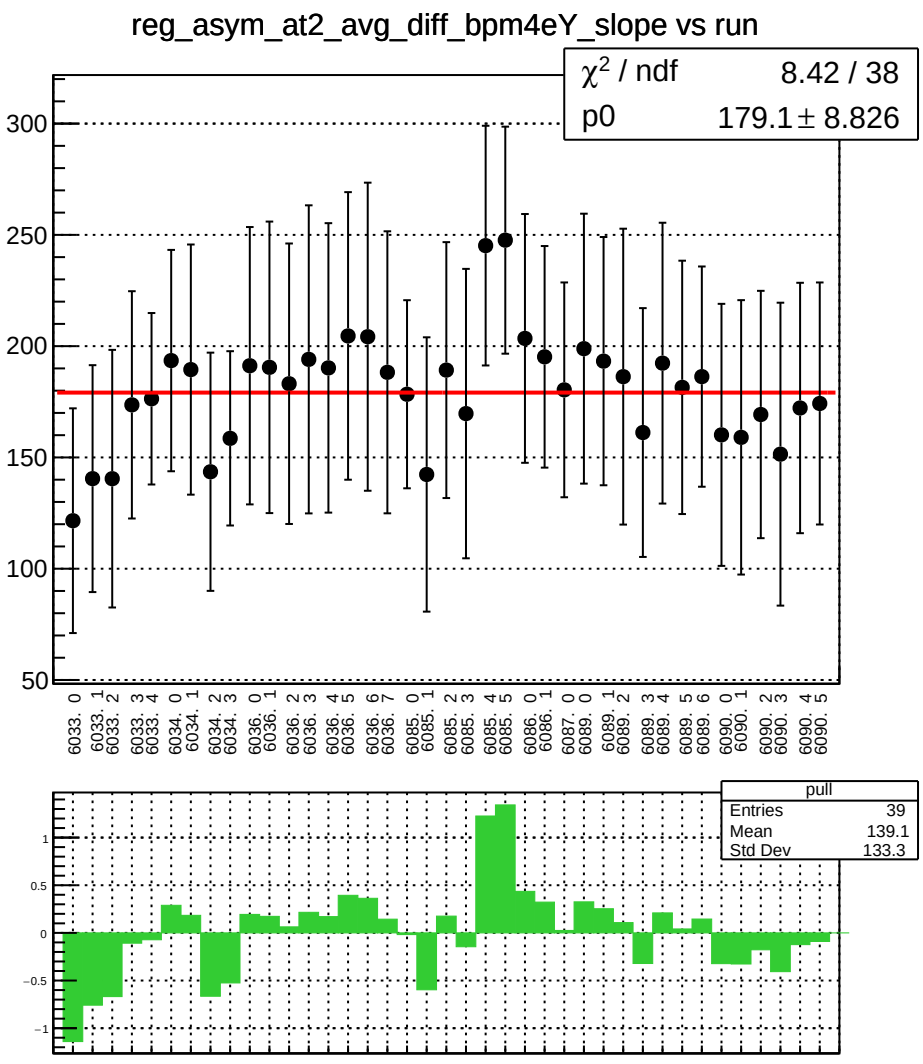

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 32.76 / 38
p0 −473.4 ± 13.26
−200
−300
−400
−500
−600
−700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1.988
Std Dev 15.9
3
2
1
0
−1

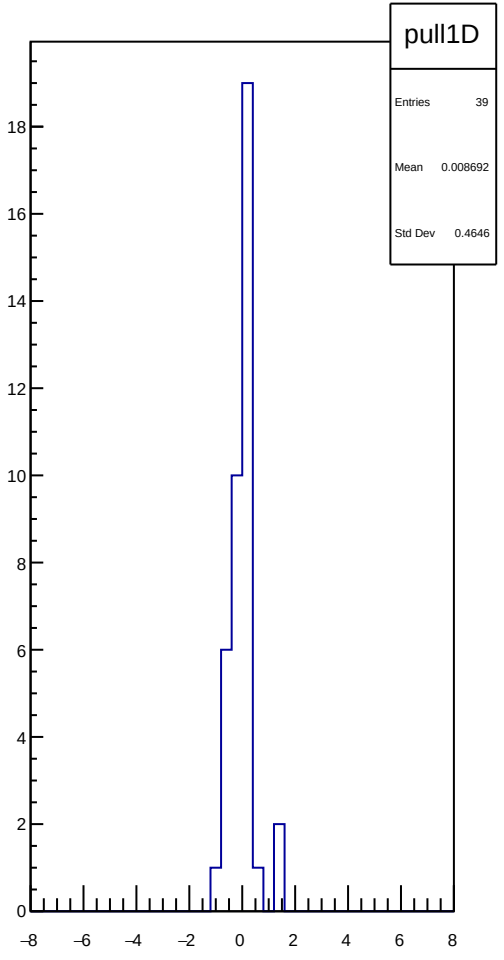

pull1D
Entries 39
Mean −0.1078
Std Dev 0.9102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

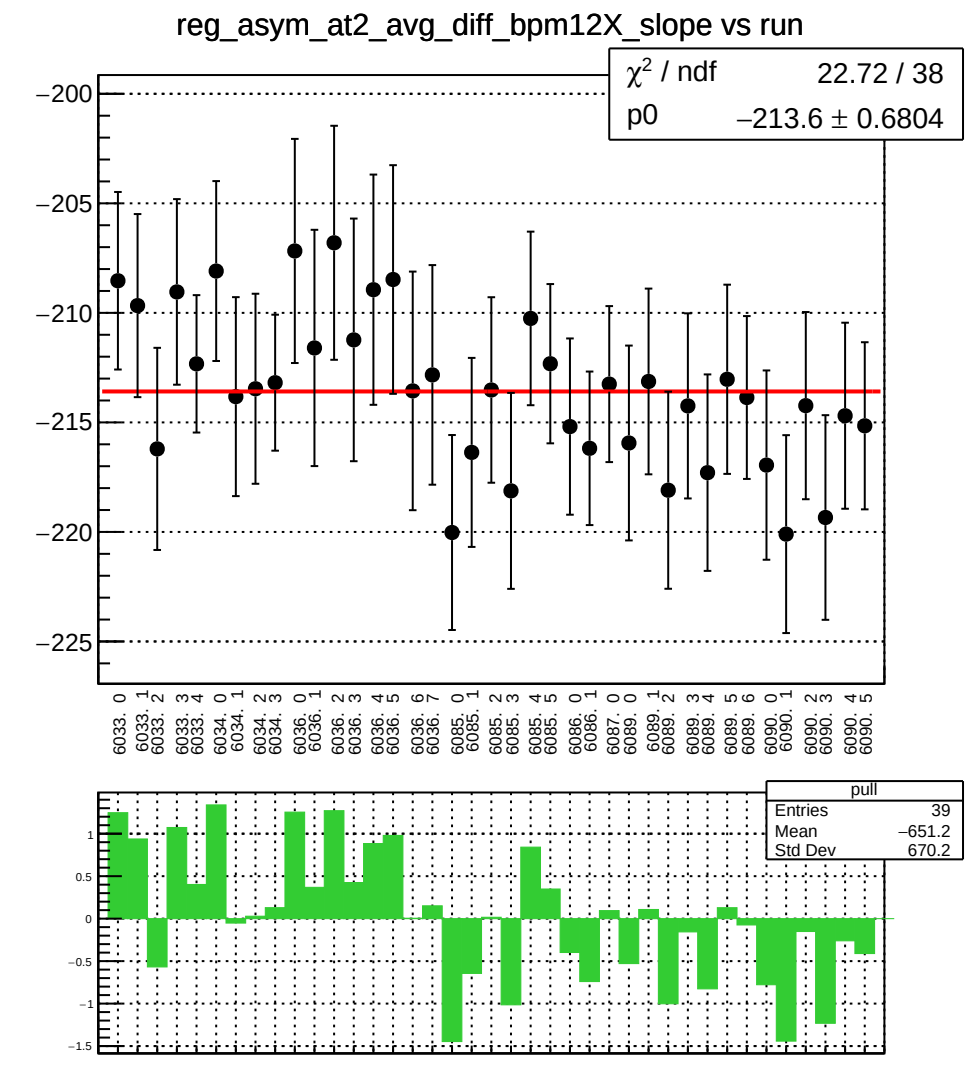

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.464 / 38
p0 −42.19 ± 8.265
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 32.42
Std Dev 67.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 39
Mean −0.005589
Std Dev 0.4071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

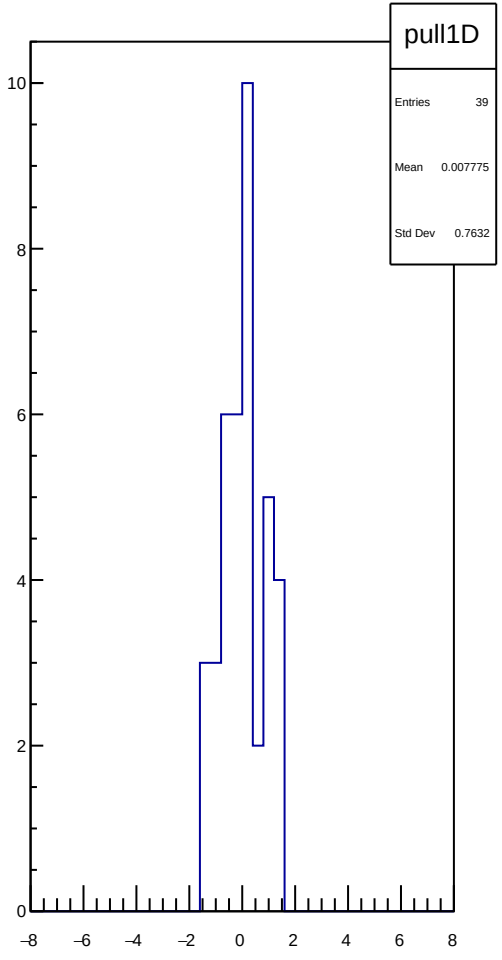

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.19 / 38
p0 597.2 ± 14.88
800
700
600
500
400
300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 31.42
Std Dev 3.53
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

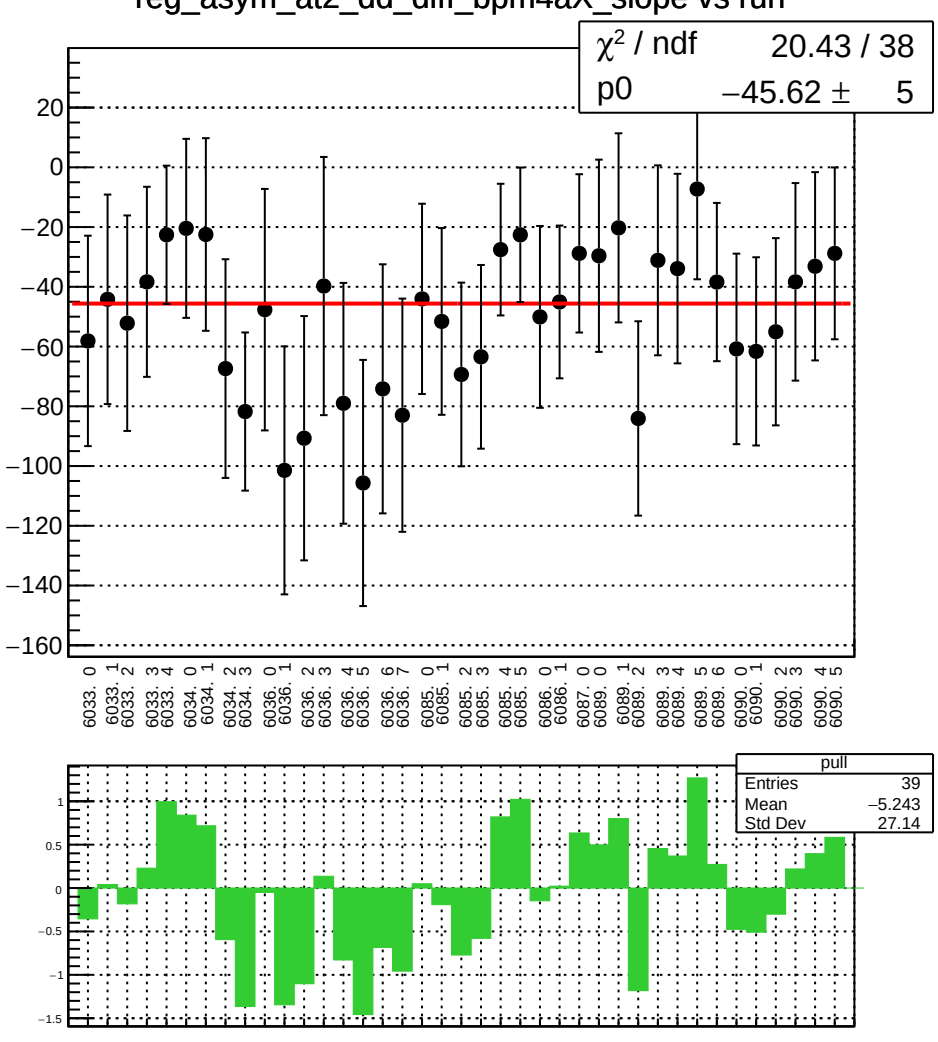

pull1D
Entries 39
Mean 0.09048
Std Dev 0.83
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

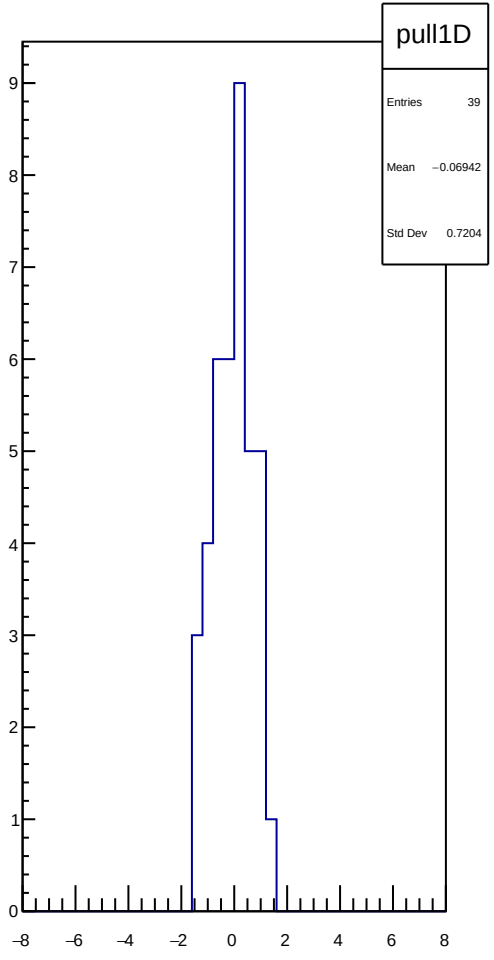

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.42 / 38
p0 179.1 ± 8.826
300
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 139.1
Std Dev 133.3
1
0.5
0
−0.5
−1

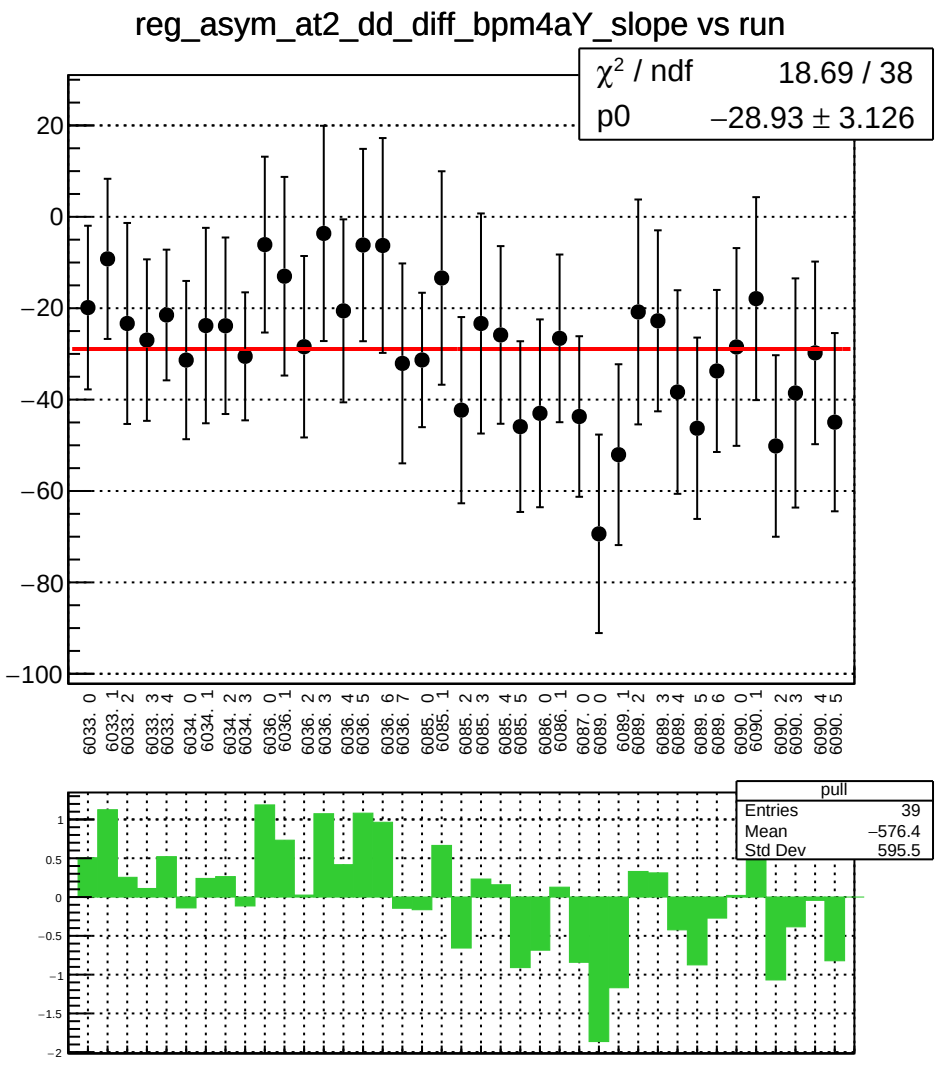

pull1D
Entries 39
Mean 0.008692
Std Dev 0.4646
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

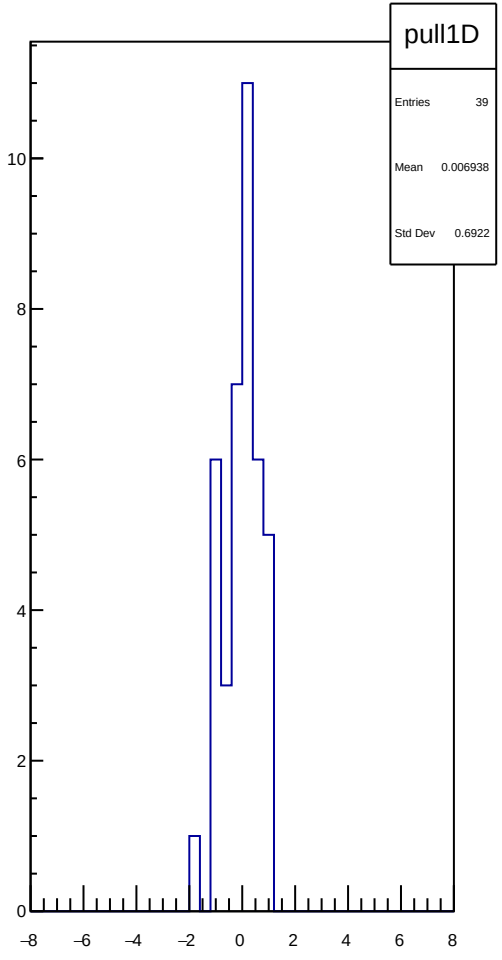

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 22.72 / 38
p0 −213.6 ± 0.6804
−200
−205
−210
−215
−220
−225
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −651.2
Std Dev 670.2
1
0.5
0
−0.5
−1
−1.5

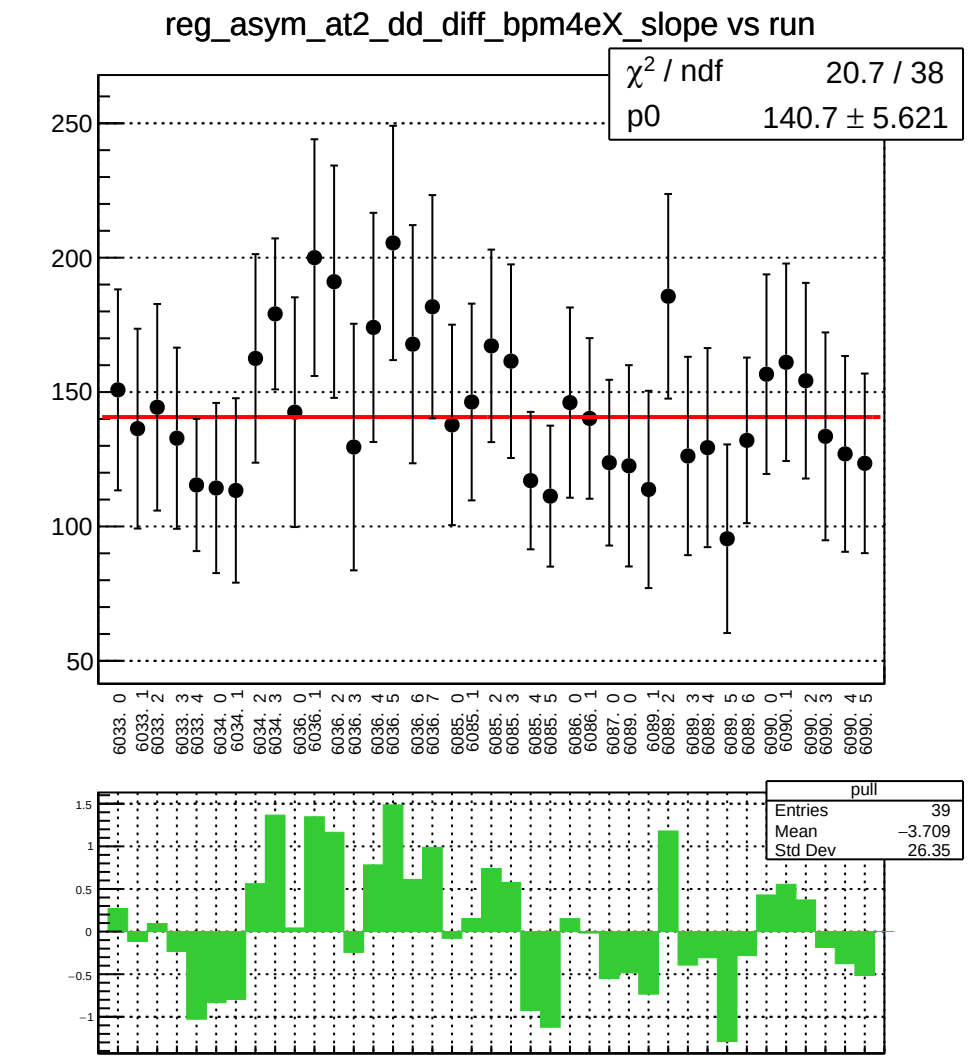

pull1D
Entries 39
Mean 0.007775
Std Dev 0.7632
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

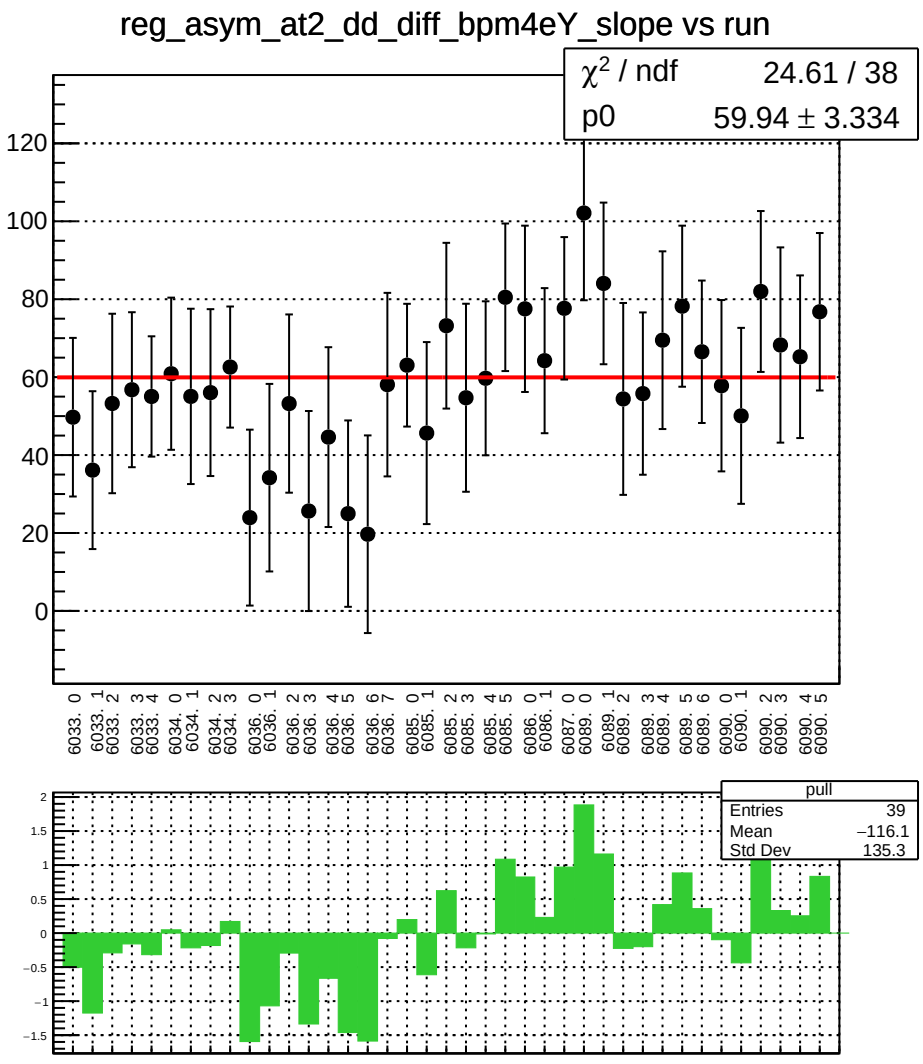

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.43 / 38
p0 −45.62 ± 5
pull
Entries 39
Mean −5.243
Std Dev 27.14

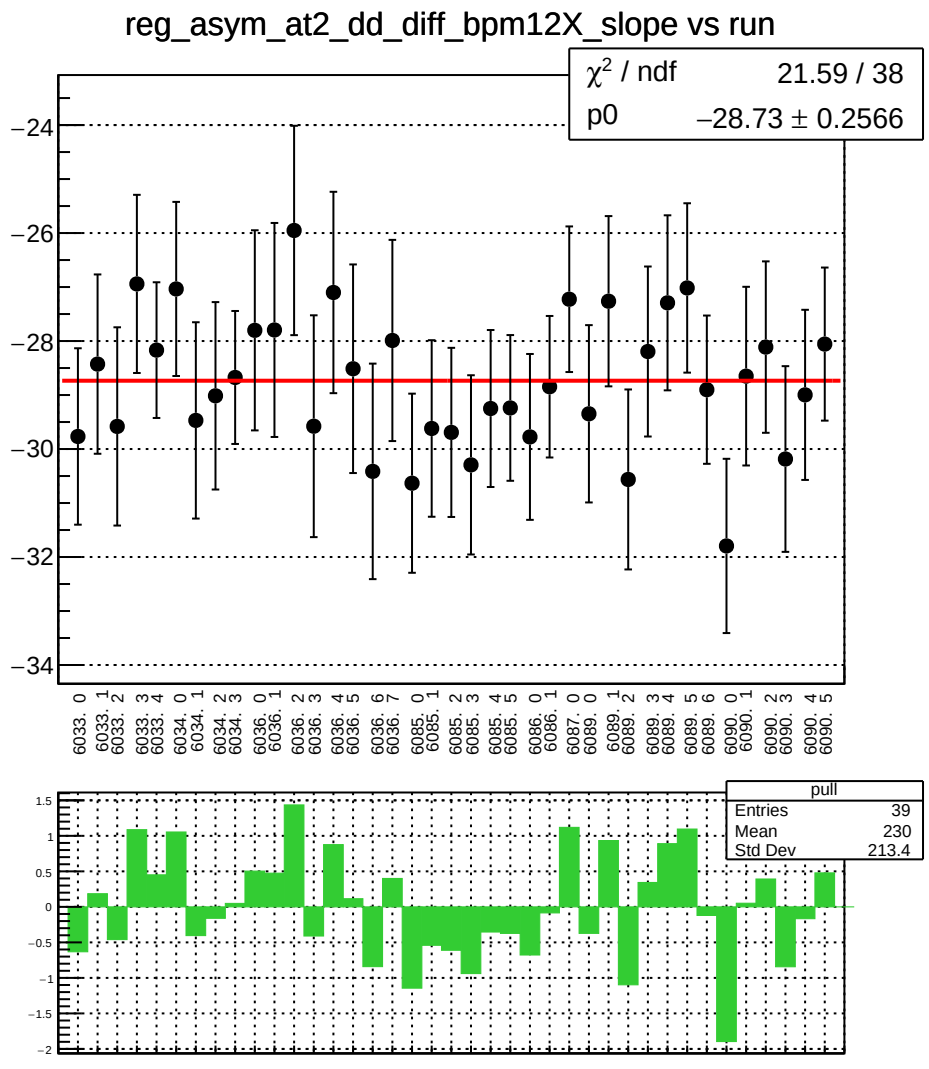

pull1D
Entries 39
Mean −0.06942
Std Dev 0.7204

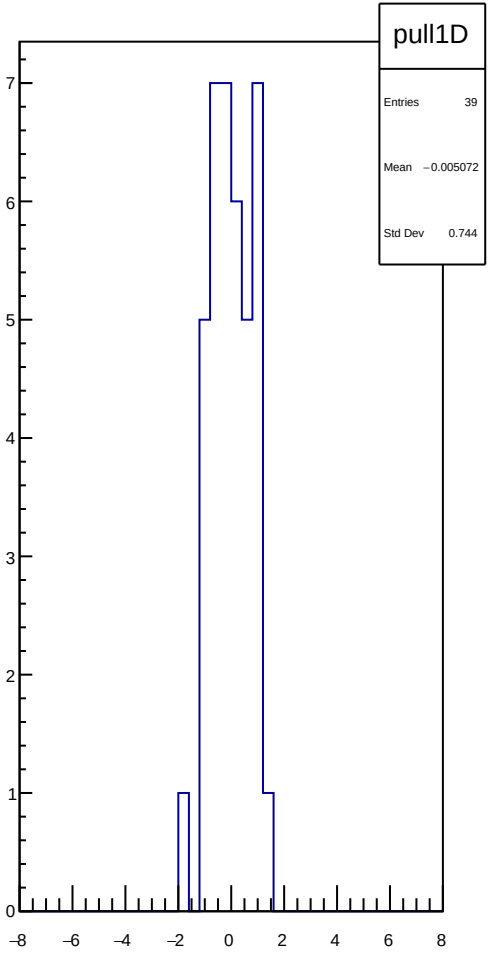

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.69 / 38
p0 −28.93 ± 3.126
pull
Entries 39
Mean −576.4
Std Dev 595.5

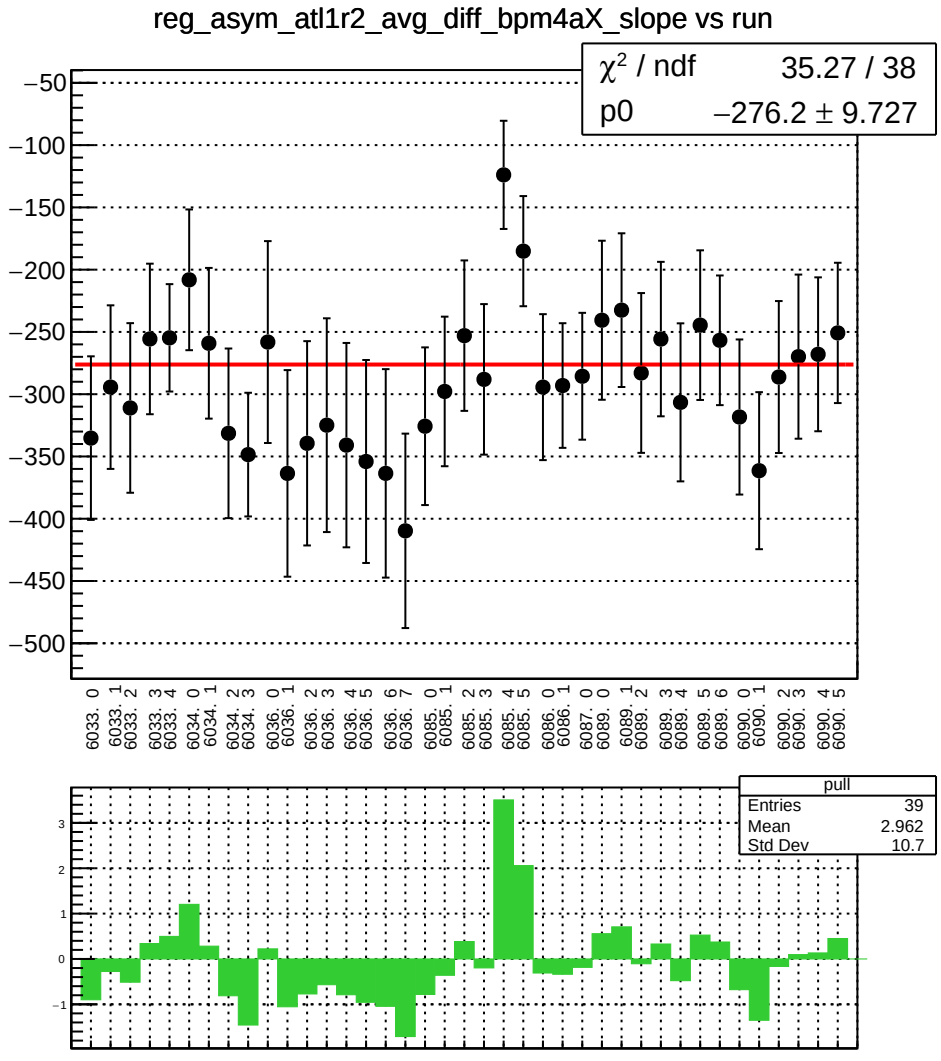

pull1D
Entries 39
Mean 0.006938
Std Dev 0.6922

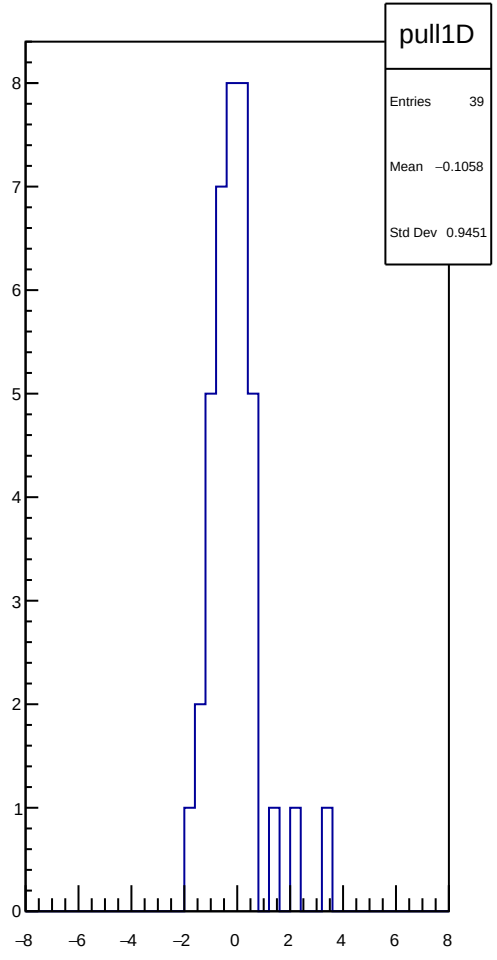

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.7 / 38
p0 140.7 ± 5.621
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −3.709
Std Dev 26.35
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.06066
Std Dev 0.726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

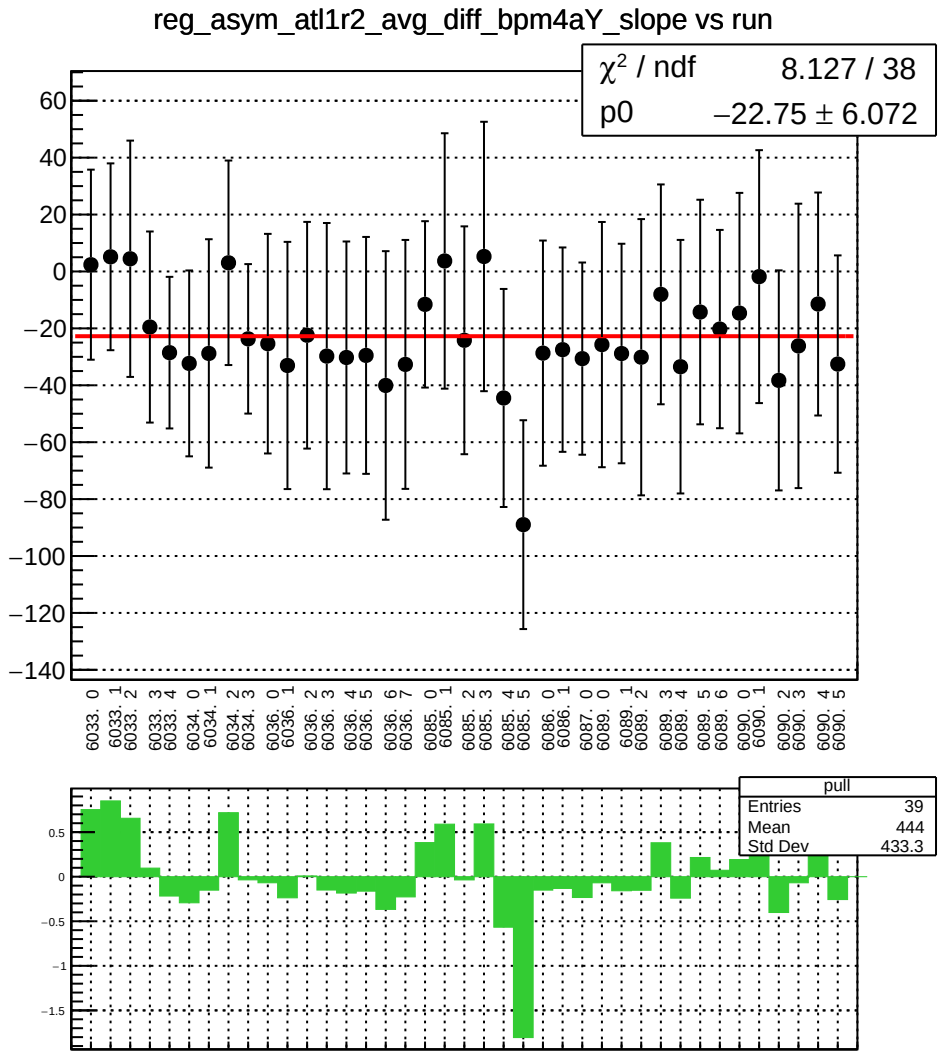

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.61 / 38
p0 59.94 ± 3.334
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −116.1
Std Dev 135.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.03546
Std Dev 0.7935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

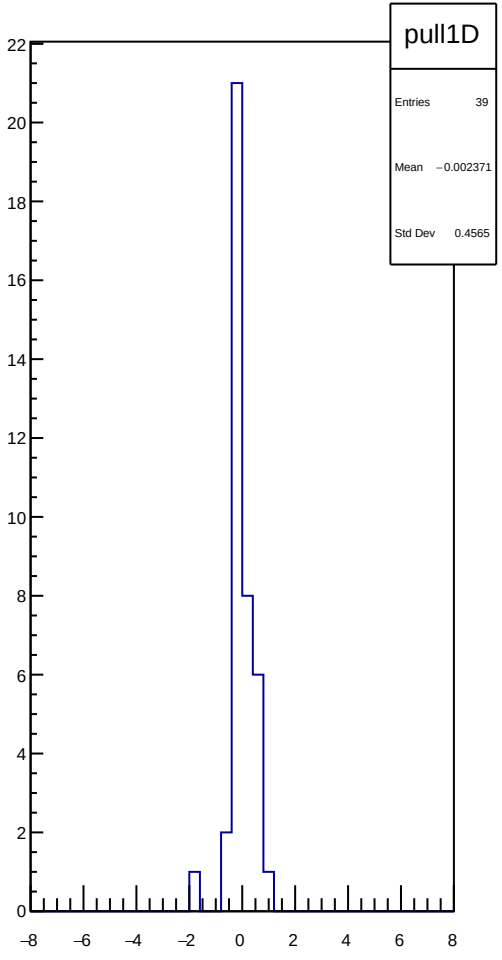

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 21.59 / 38
p0 −28.73 ± 0.2566
pull
Entries 39
Mean 230
Std Dev 213.4

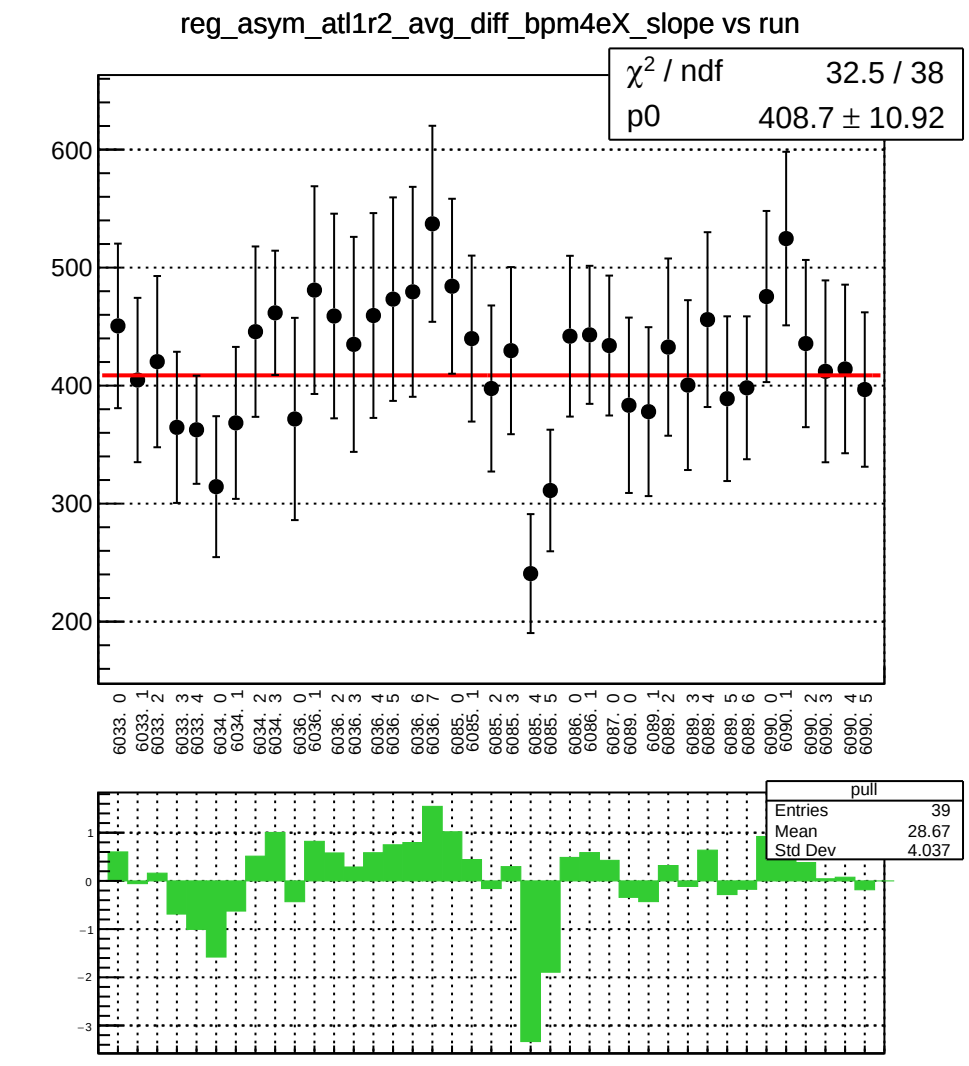

pull1D
Entries 39
Mean −0.005072
Std Dev 0.744

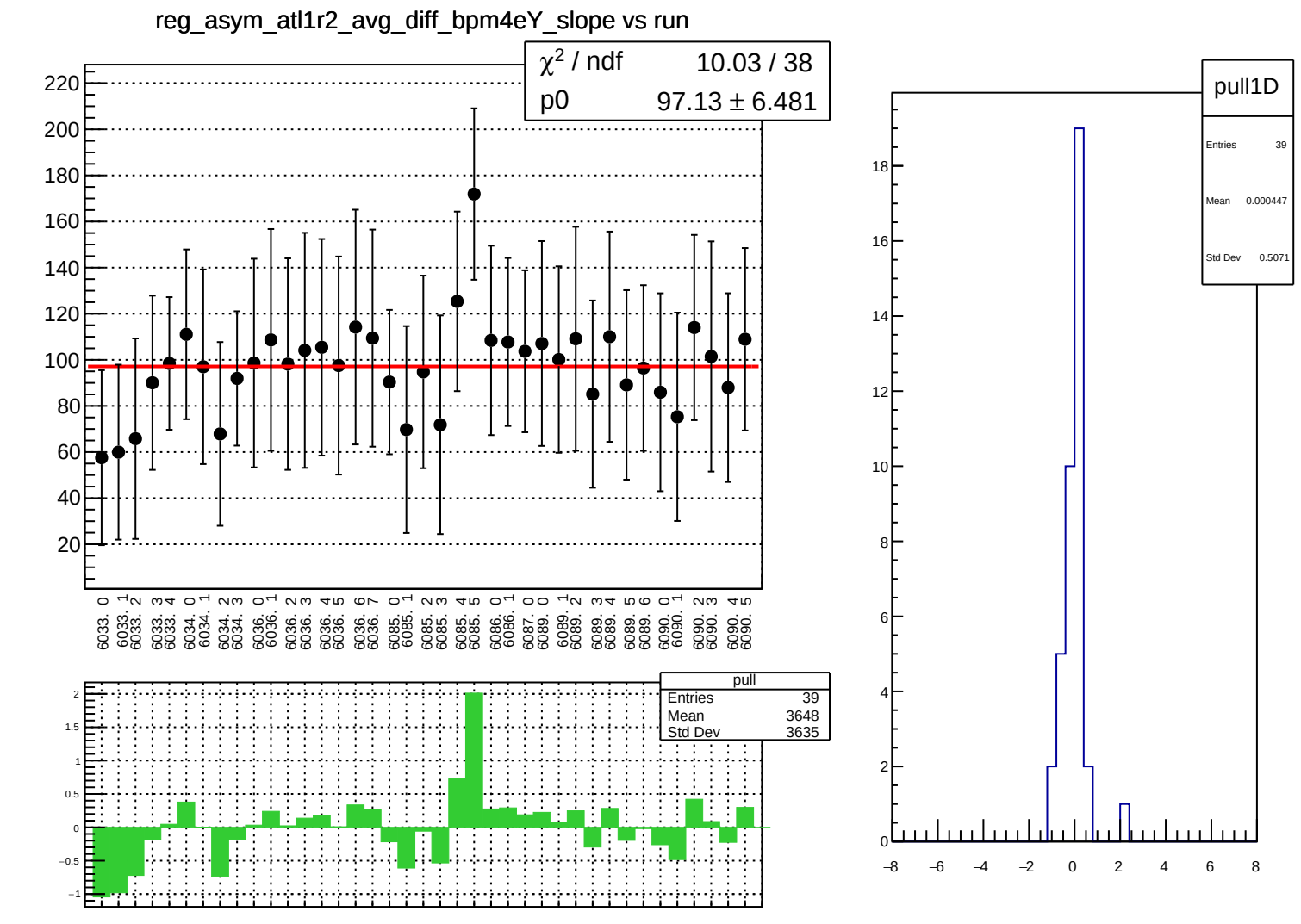

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.27 / 38
p0 −276.2 ± 9.727
pull
Entries 39
Mean 2.962
Std Dev 10.7

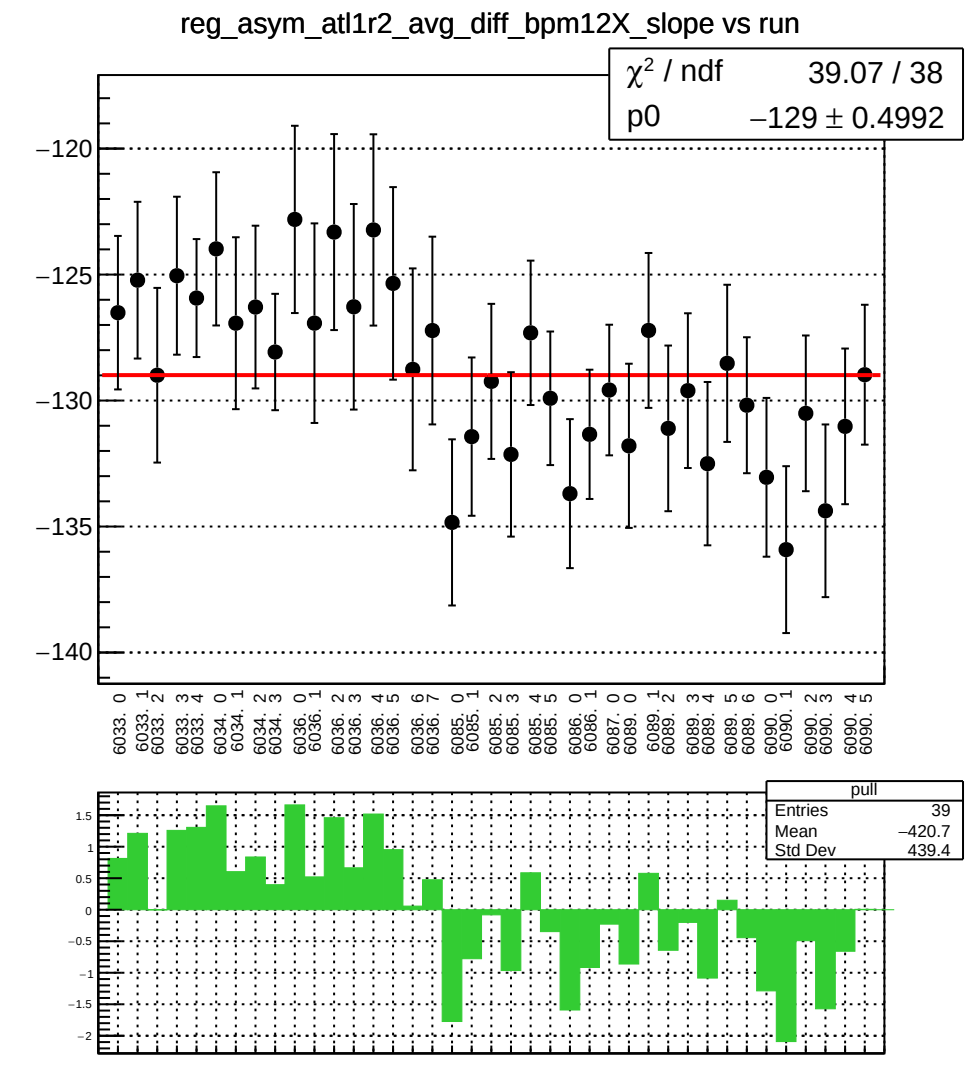

pull1D
Entries 39
Mean −0.1058
Std Dev 0.9451

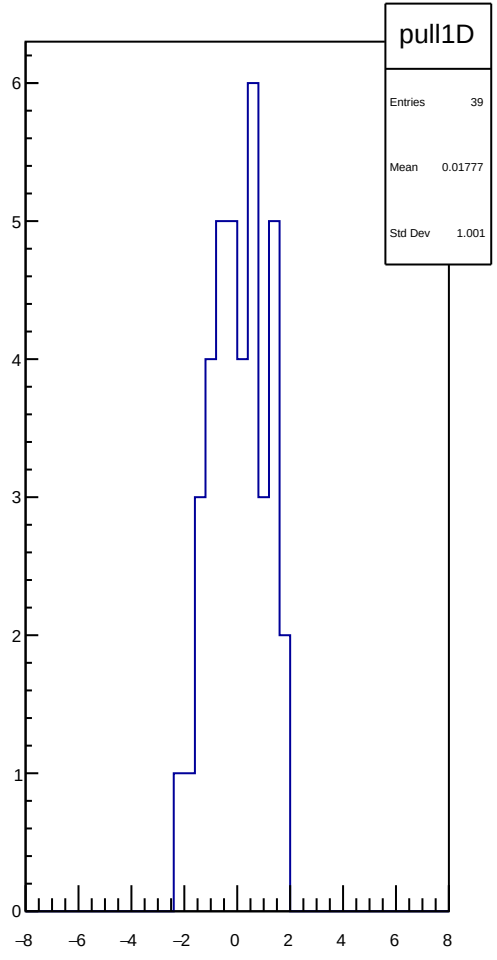

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.127 / 38
p0 −22.75 ± 6.072
pull
Entries 39
Mean 444
Std Dev 433.3

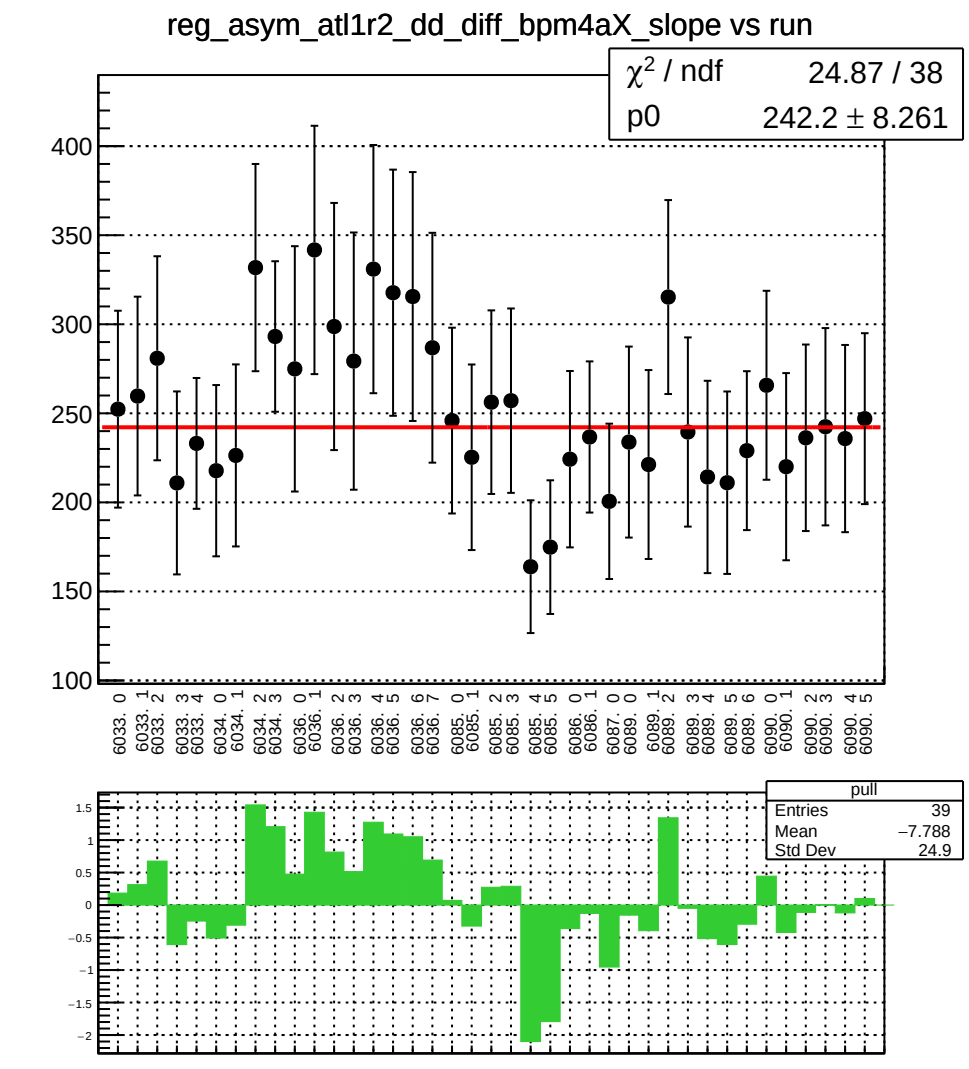

pull1D
Entries 39
Mean −0.002371
Std Dev 0.4565

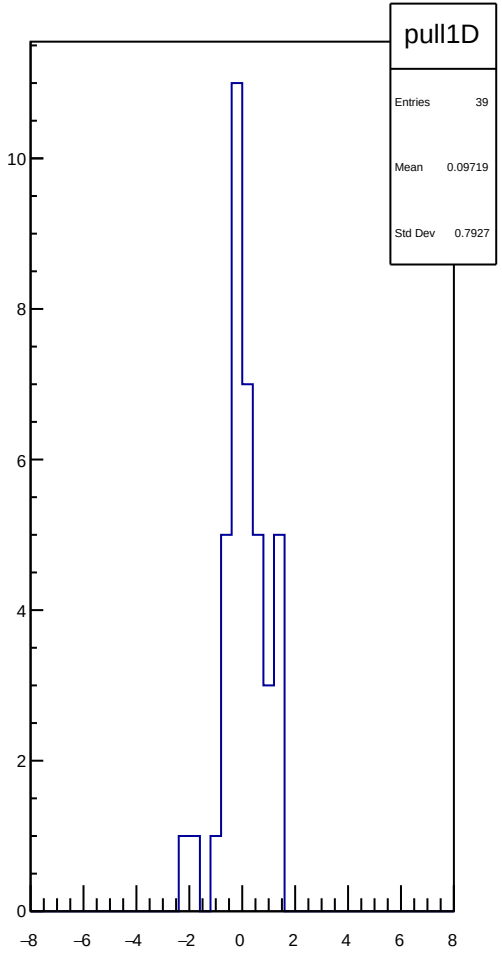

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.5 / 38
p0 408.7 ± 10.92
600
500
400
300
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 28.67
Std Dev 4.037
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.09126
Std Dev 0.9083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

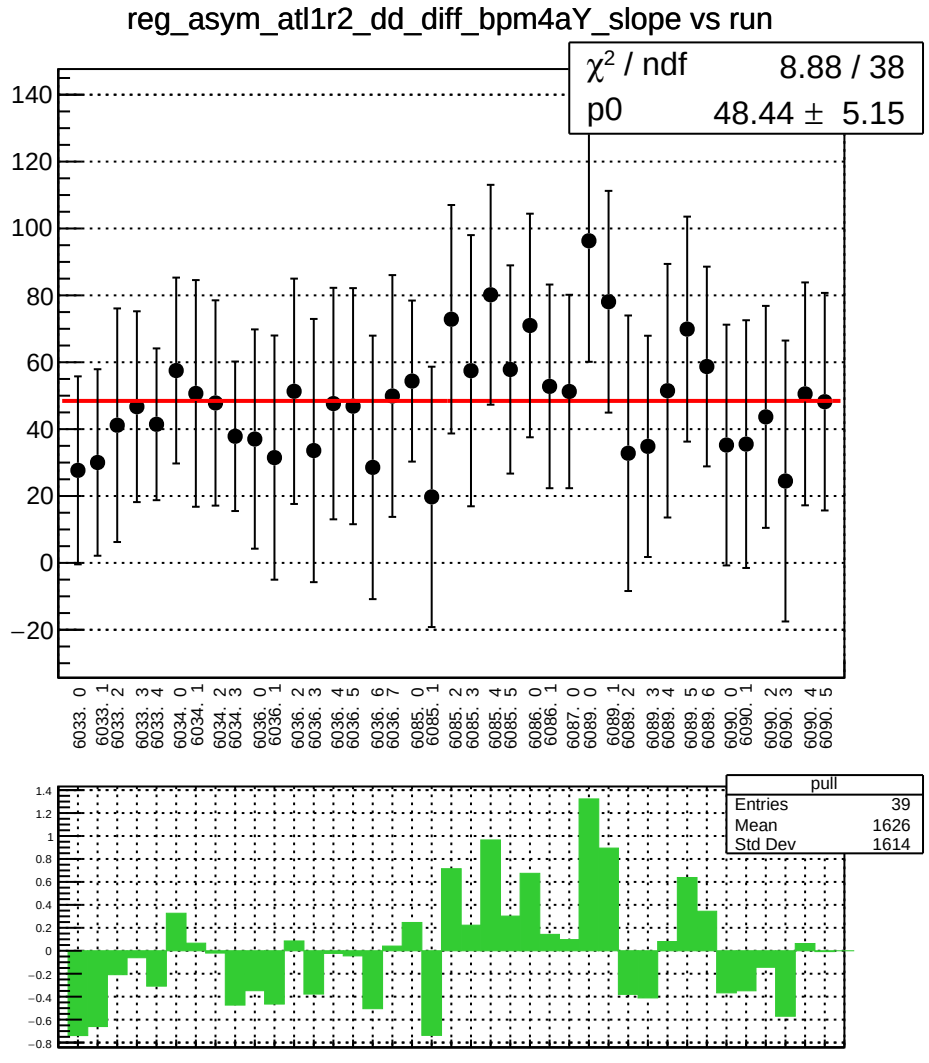

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.03 / 38
p0 97.13 ± 6.481
220
200
180
160
140
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3648
Std Dev 3635
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.000447
Std Dev 0.5071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

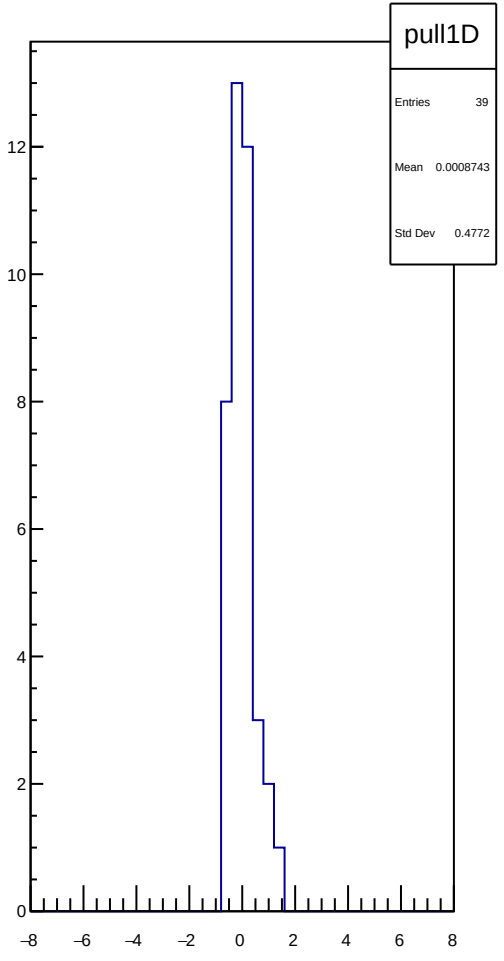

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 39.07 / 38
p0 −129 ± 0.4992
−120
−125
−130
−135
−140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −420.7
Std Dev 439.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

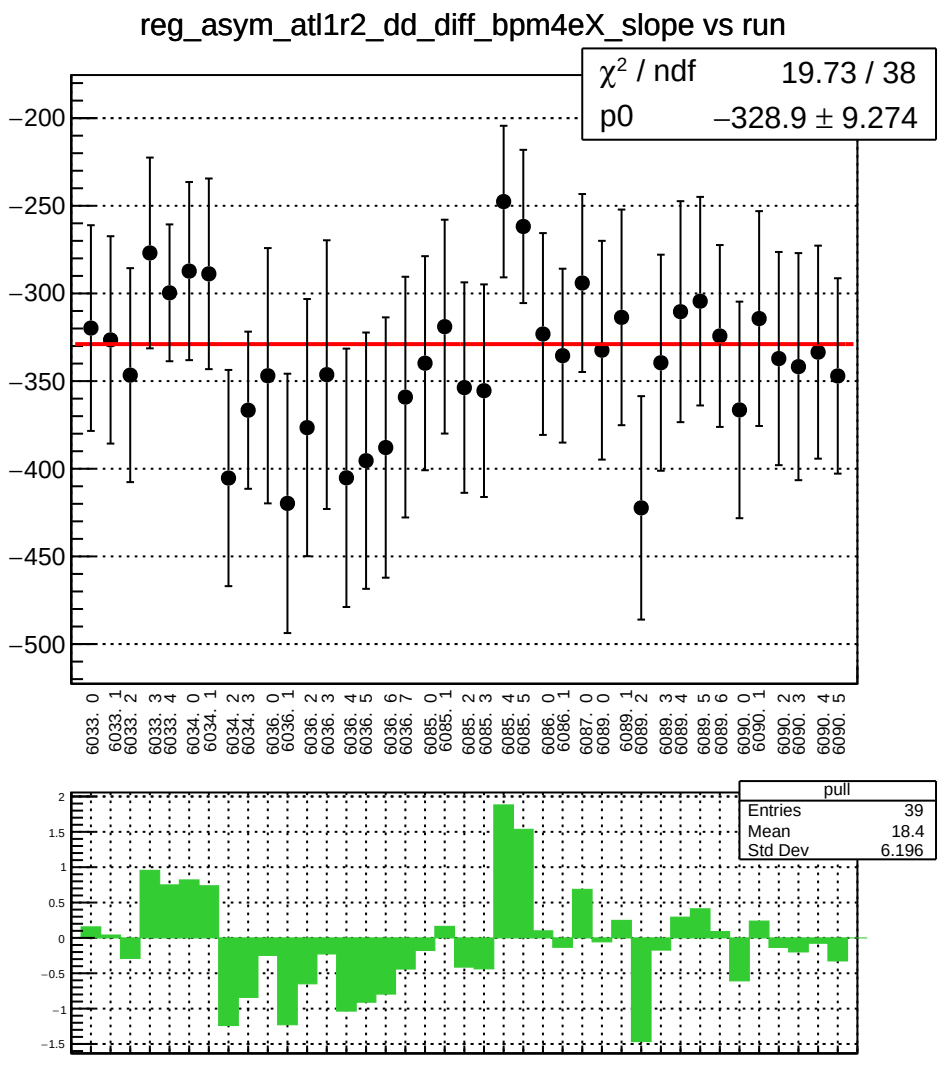

pull1D
Entries 39
Mean 0.01777
Std Dev 1.001
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

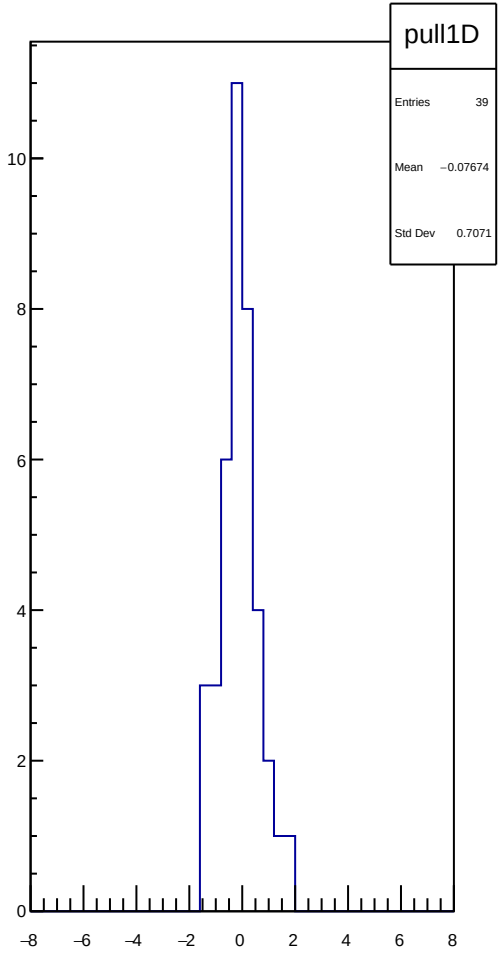

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.87 / 38
p0 242.2 ± 8.261
400
350
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −7.788
Std Dev 24.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

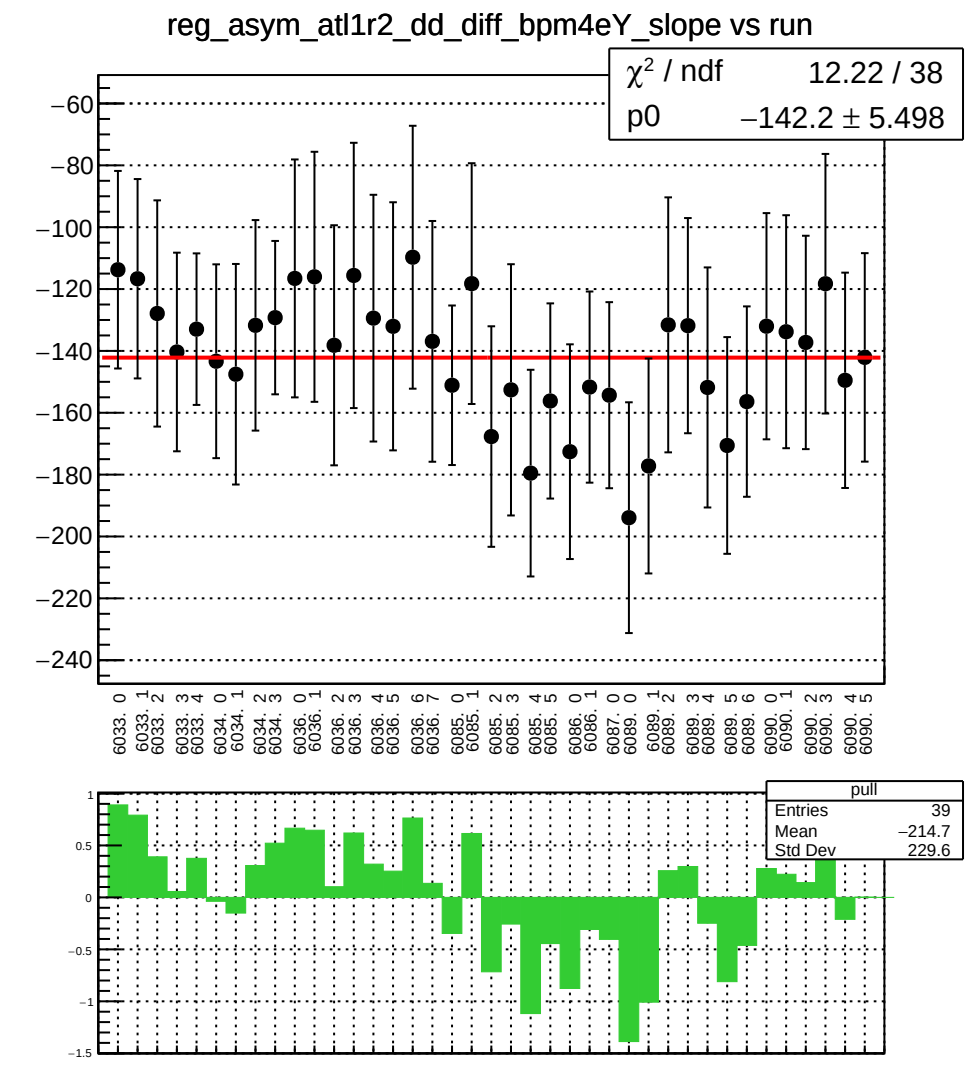

pull1D
Entries 39
Mean 0.09719
Std Dev 0.7927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

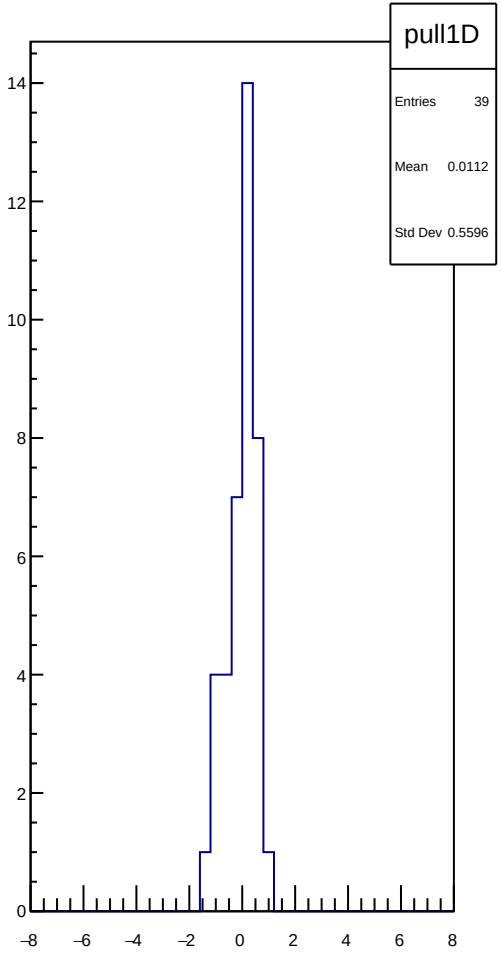

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.88 / 38
p0 48.44 ± 5.15
pull
Entries 39
Mean 1626
Std Dev 1614

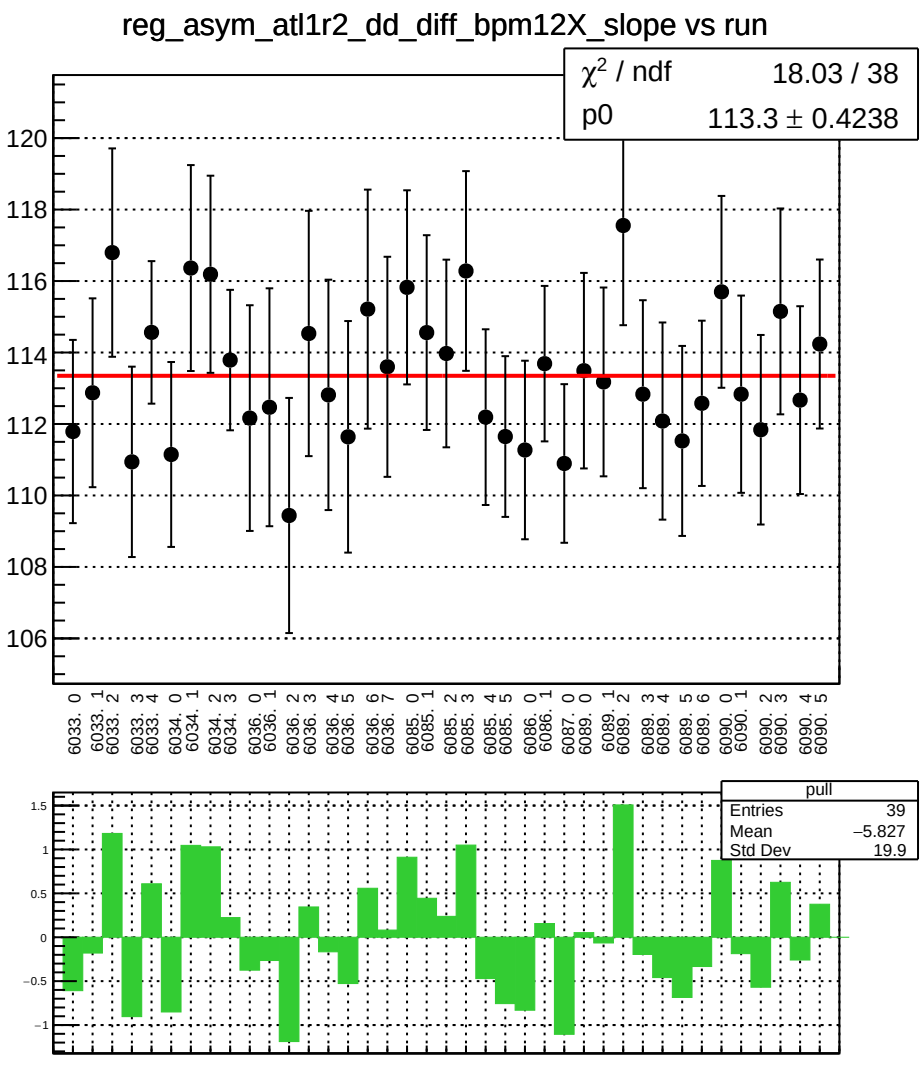

pull1D
Entries 39
Mean 0.0008743
Std Dev 0.4772

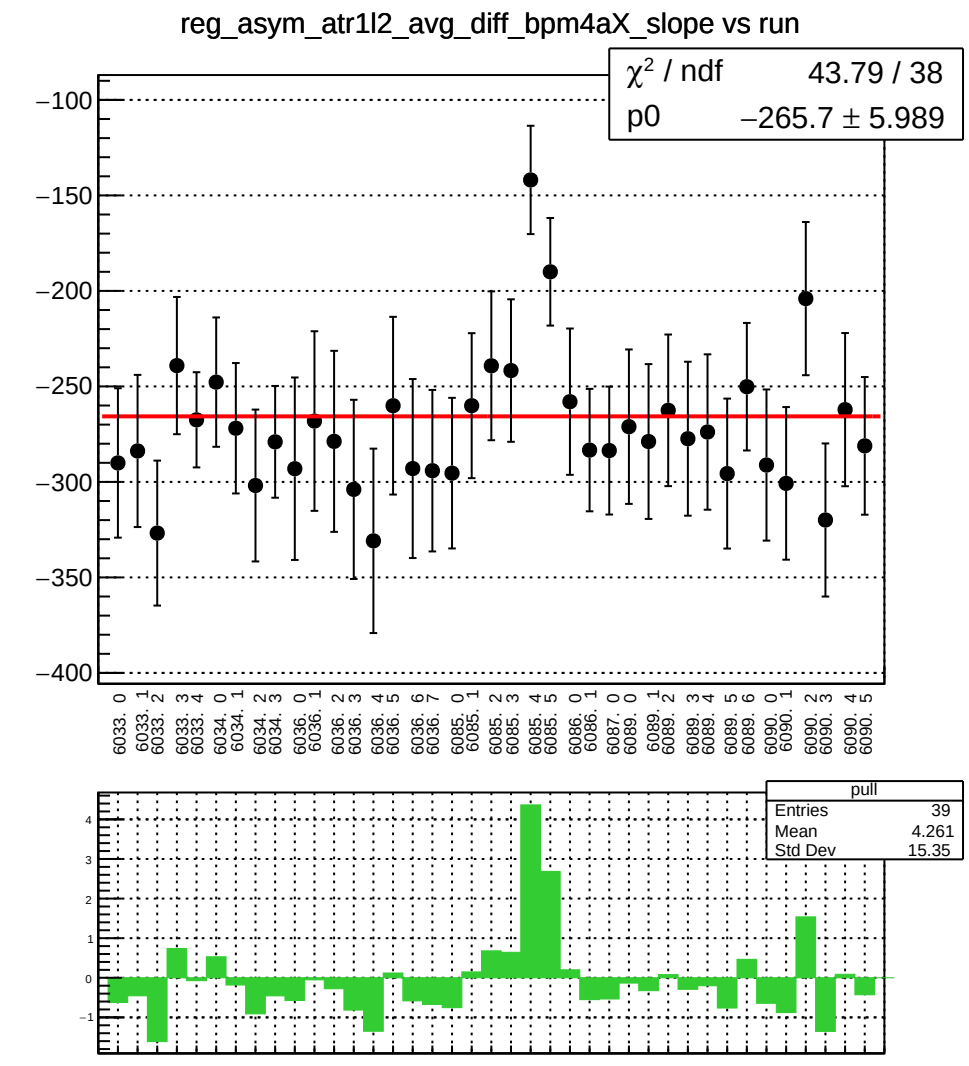

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.73 / 38
p0 −328.9 ± 9.274
−200
−250
−300
−350
−400
−450
−500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 18.4
Std Dev 6.196
2
1.5
1
0.5
0
−0.5
−1
−1.5

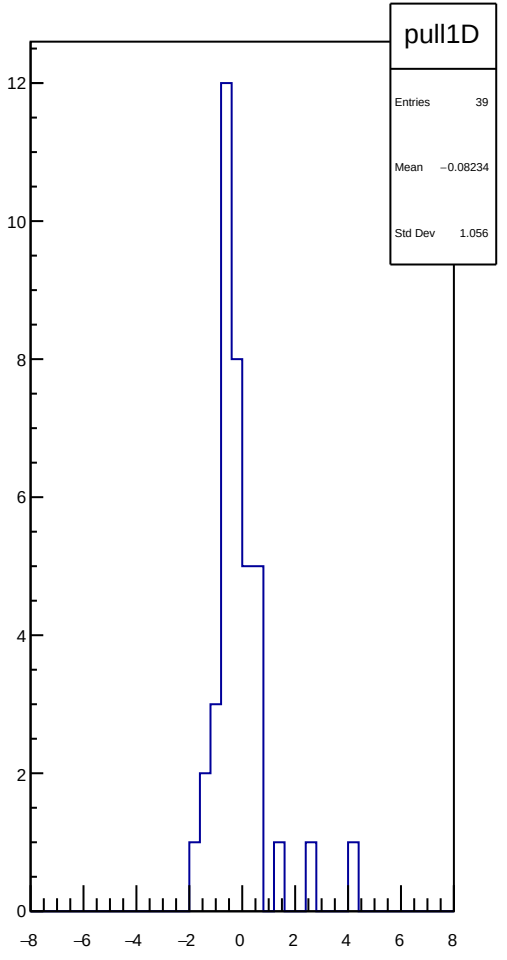

pull1D
Entries 39
Mean −0.07674
Std Dev 0.7071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

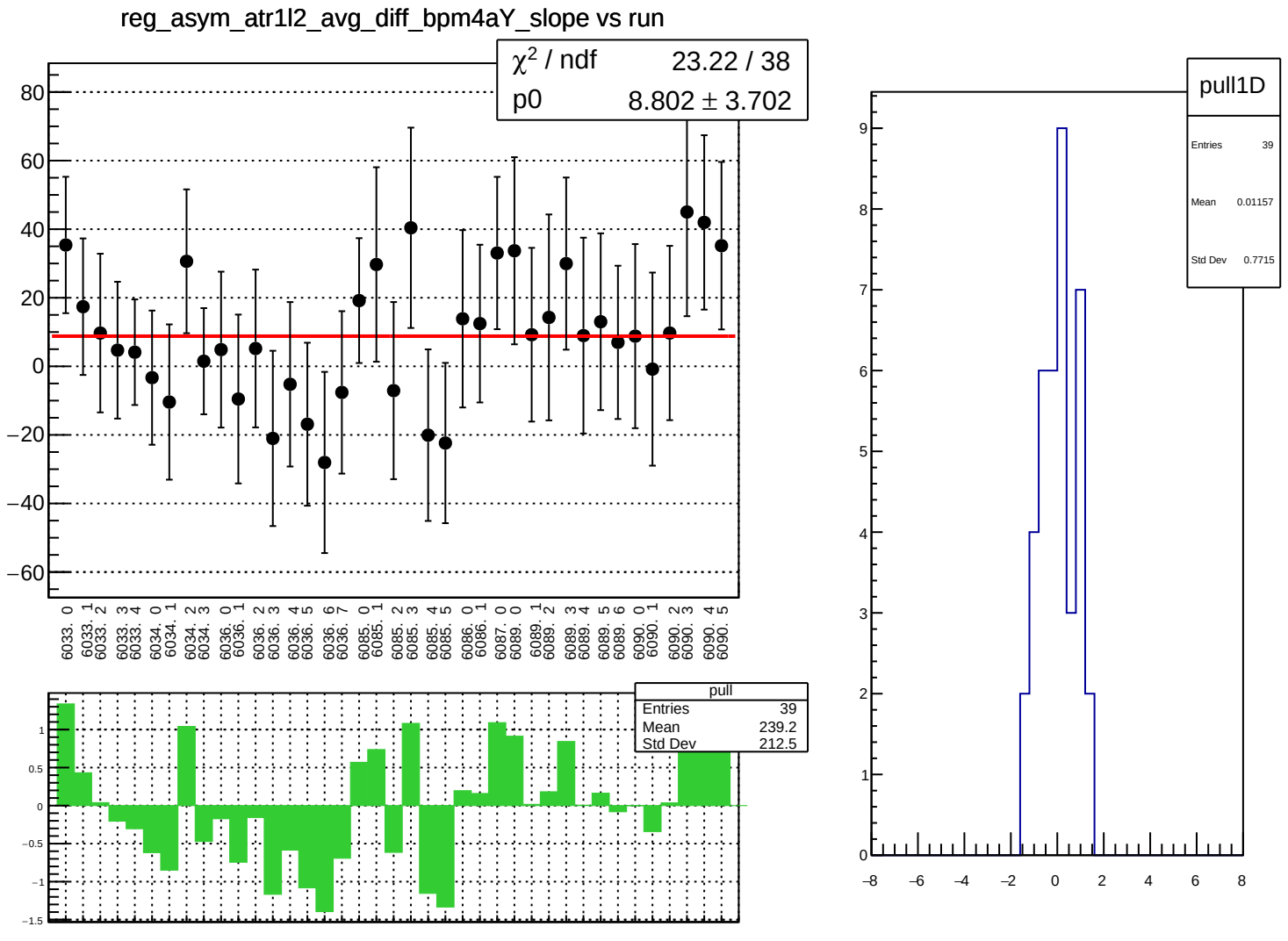

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.22 / 38
p0 −142.2 ± 5.498
pull
Entries 39
Mean −214.7
Std Dev 229.6

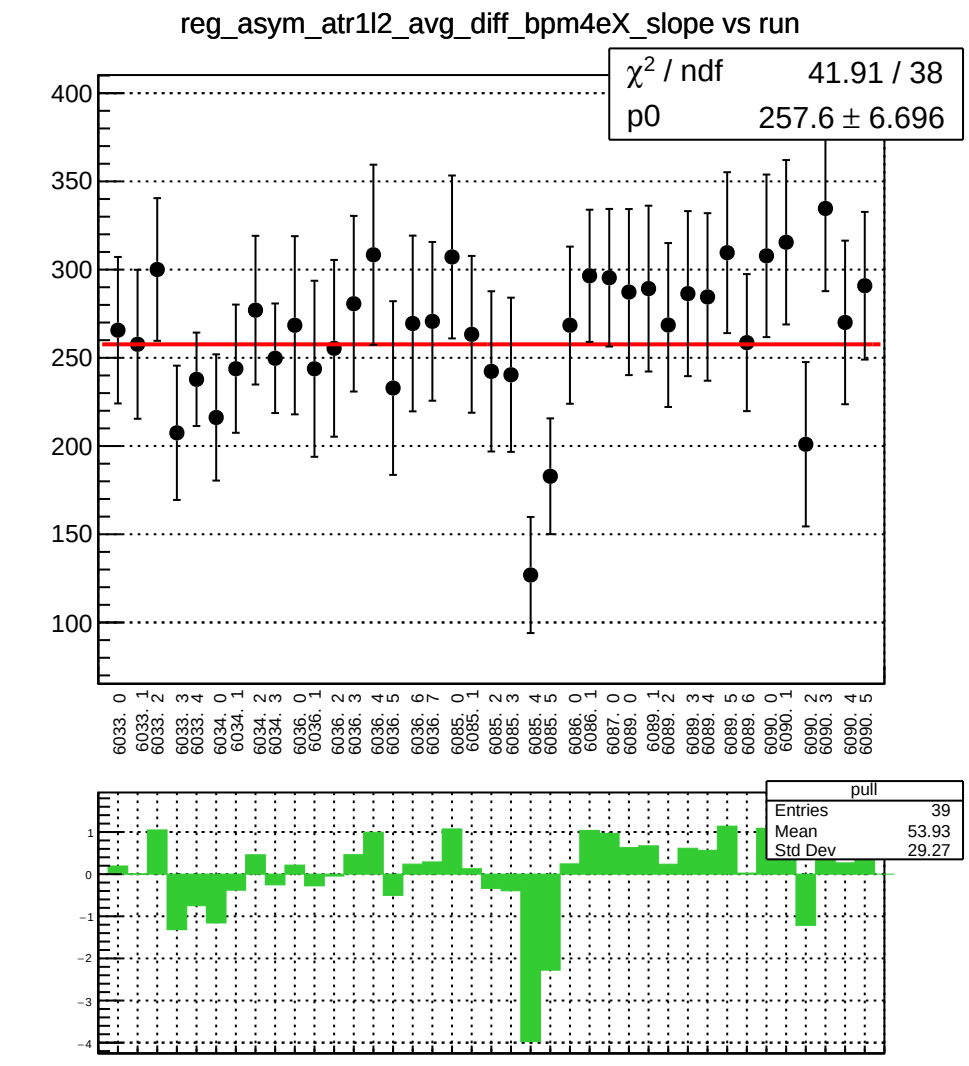

pull1D
Entries 39
Mean 0.0112
Std Dev 0.5596

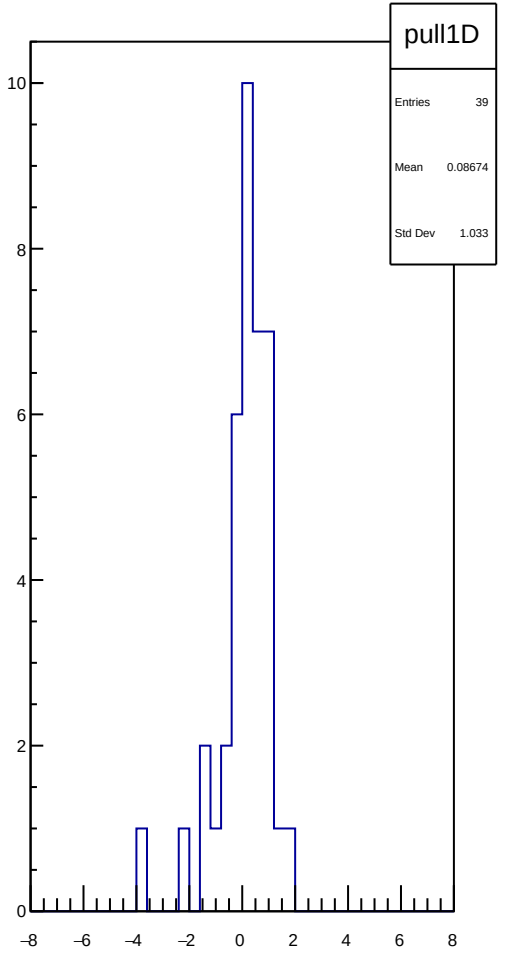

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.03 / 38
p0 113.3 ± 0.4238
120
118
116
114
112
110
108
106
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −5.827
Std Dev 19.9
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.008509
Std Dev 0.6799
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

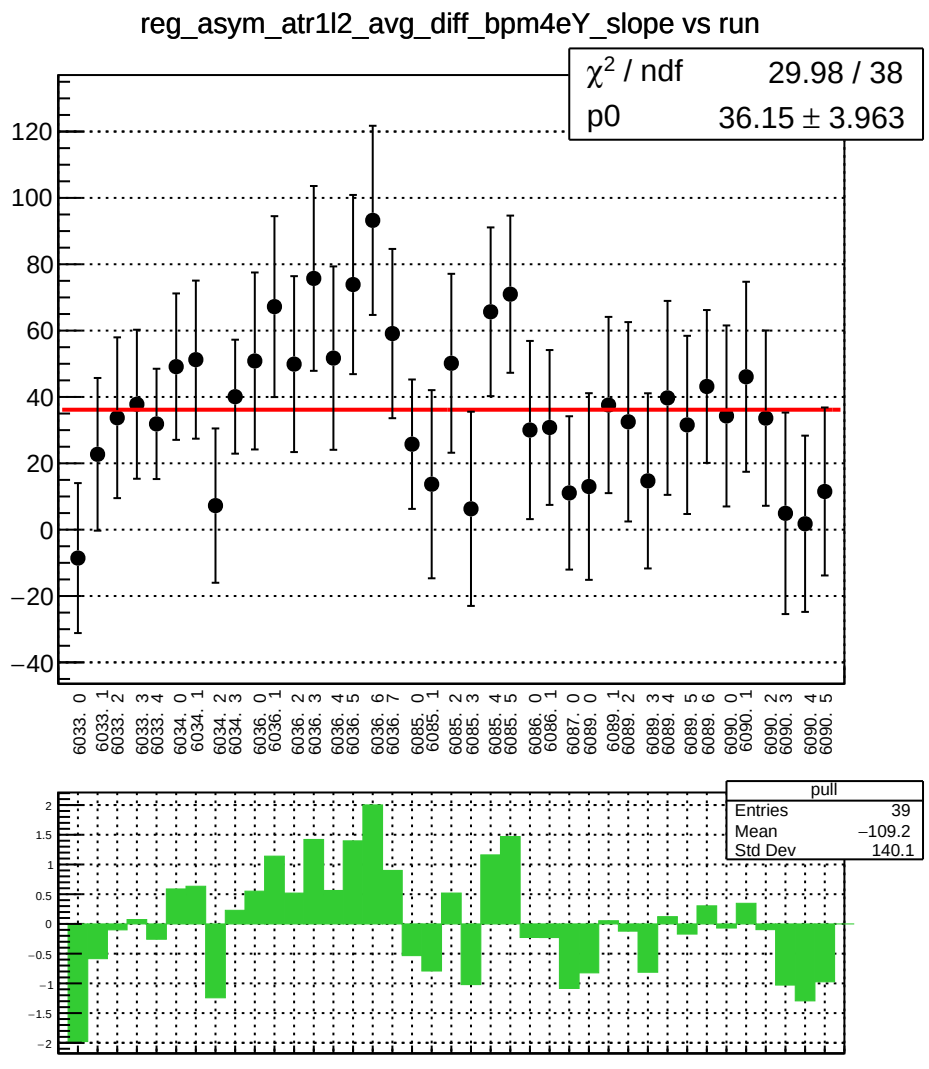

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 43.79 / 38
p0 −265.7 ± 5.989
−100
−150
−200
−250
−300
−350
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 4.261
Std Dev 15.35
4
3
2
1
0
−1

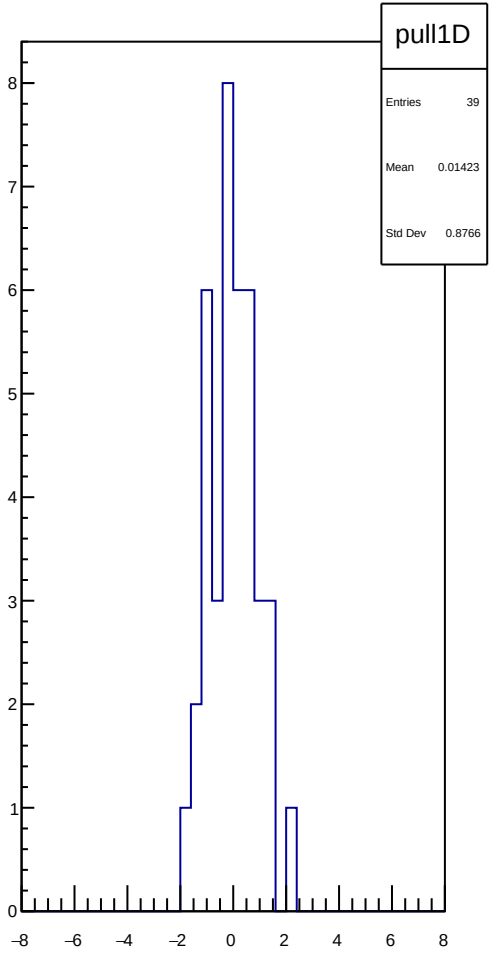

pull1D
Entries 39
Mean −0.08234
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

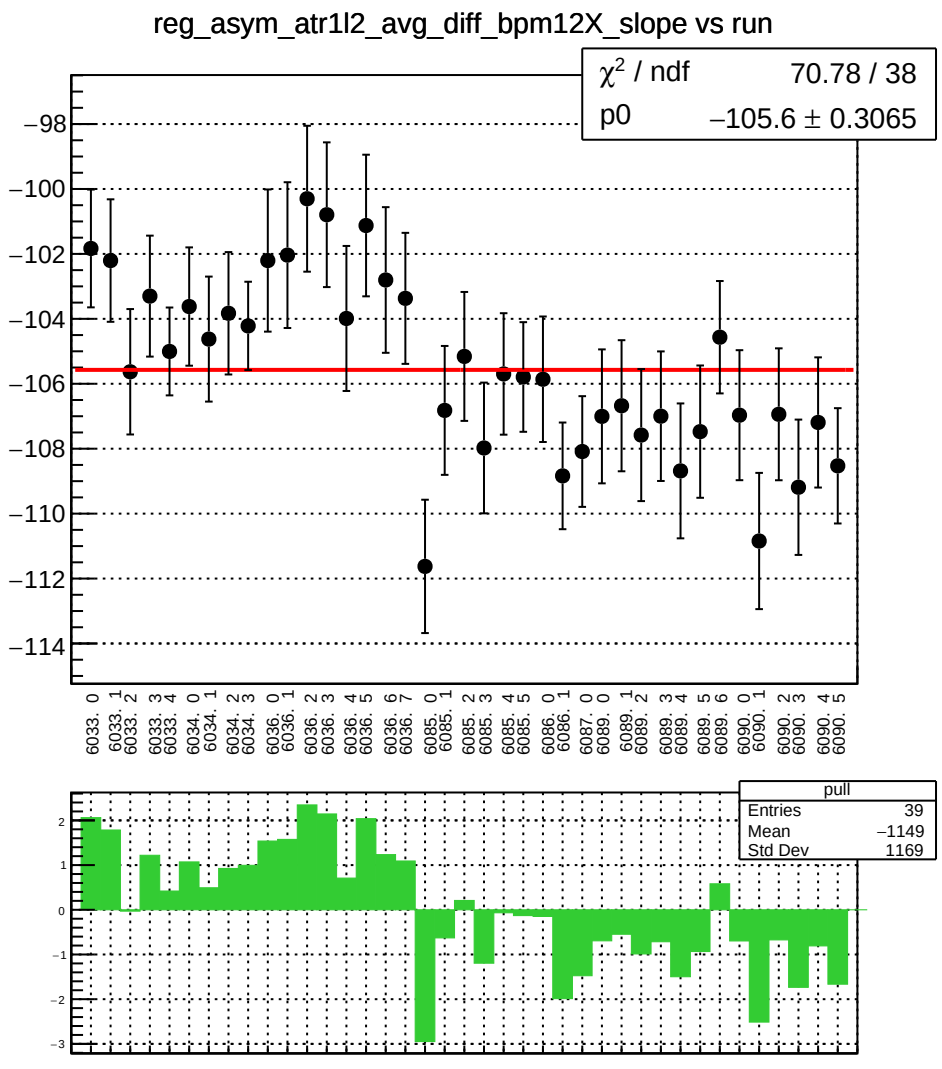

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.22 / 38
p0 8.802 ± 3.702
pull
Entries 39
Mean 239.2
Std Dev 212.5
pull1D
Entries 39
Mean 0.01157
Std Dev 0.7715

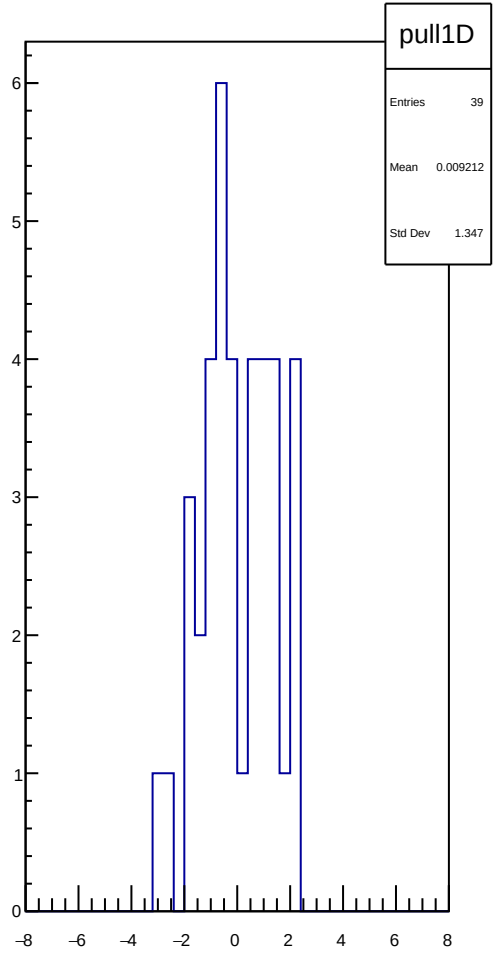

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.91 / 38
p0 257.6 ± 6.696
400
350
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 53.93
Std Dev 29.27
1
0
−1
−2
−3
−4

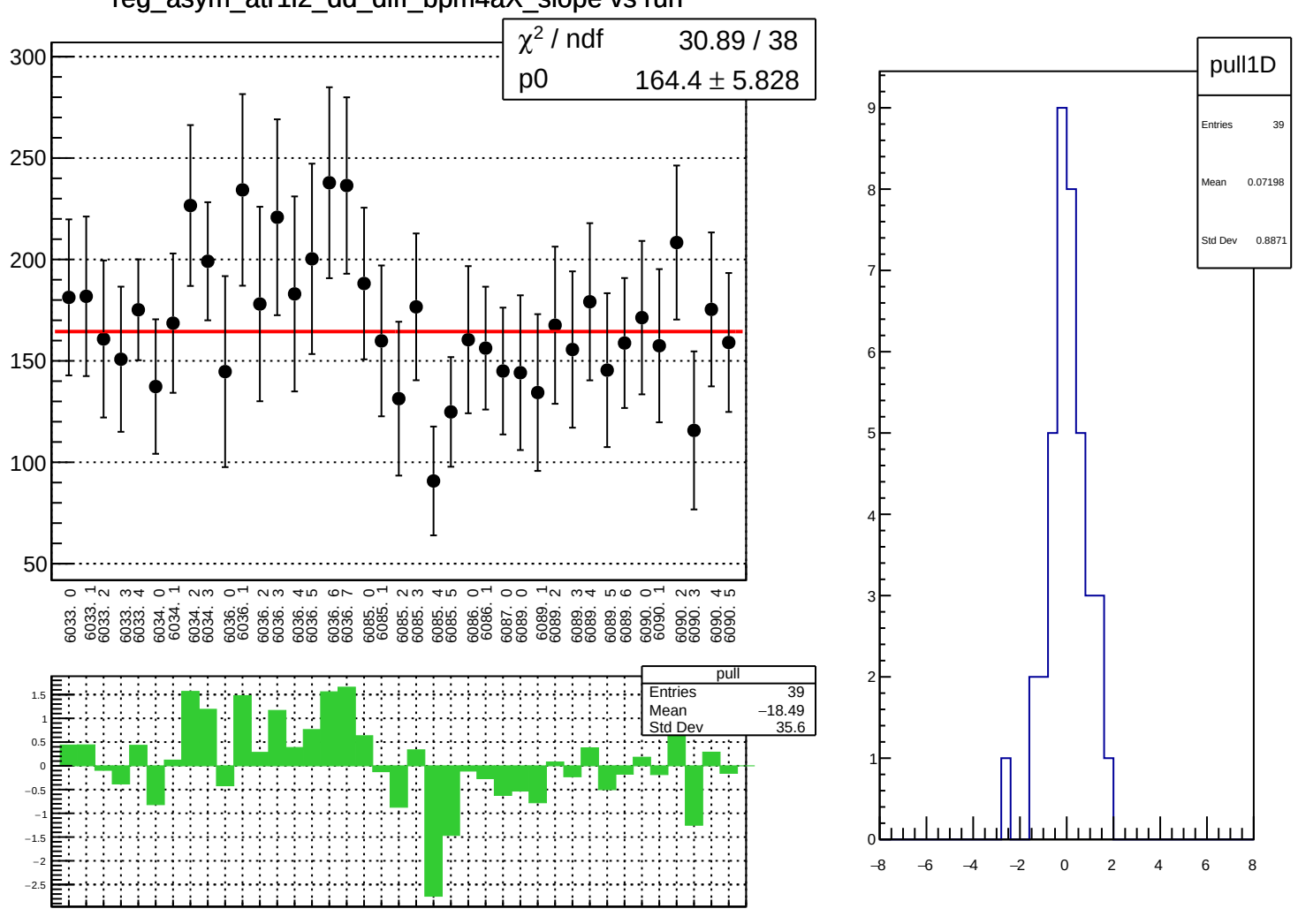

pull1D
Entries 39
Mean 0.08674
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

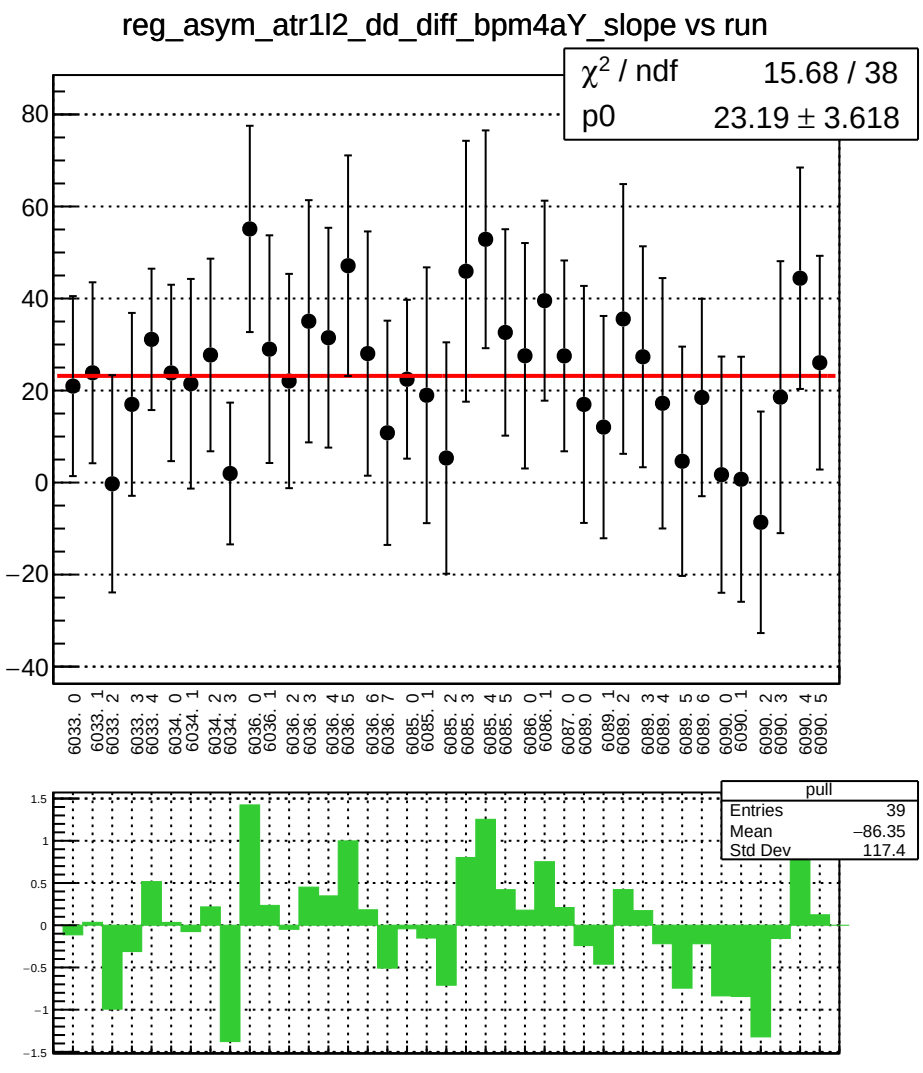

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.98 / 38
p0 36.15 ± 3.963
pull
Entries 39
Mean −109.2
Std Dev 140.1

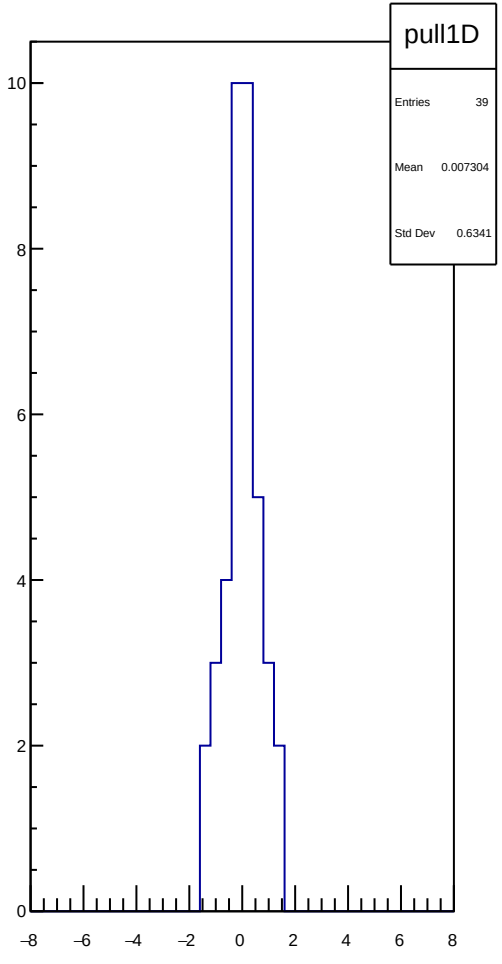

pull1D
Entries 39
Mean 0.01423
Std Dev 0.8766

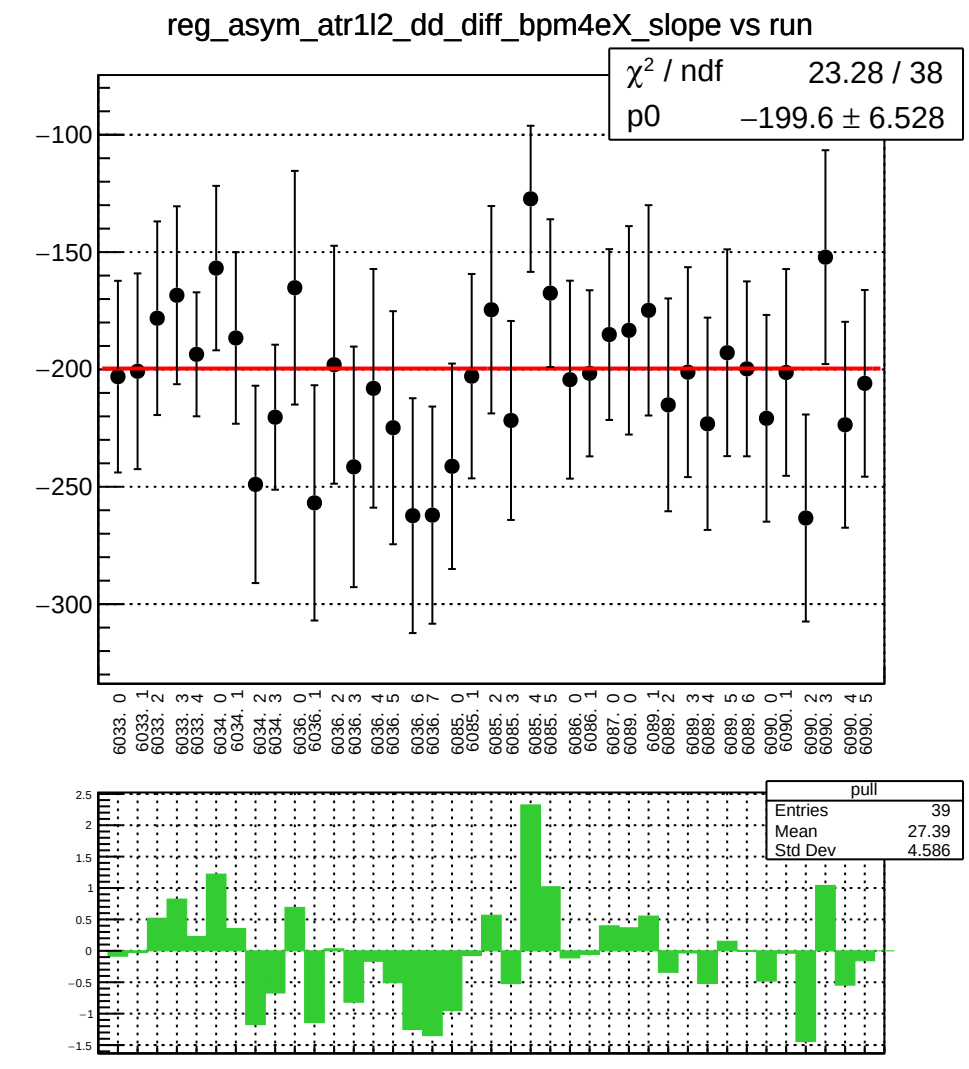

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 70.78 / 38
p0 −105.6 ± 0.3065
pull
Entries 39
Mean −1149
Std Dev 1169

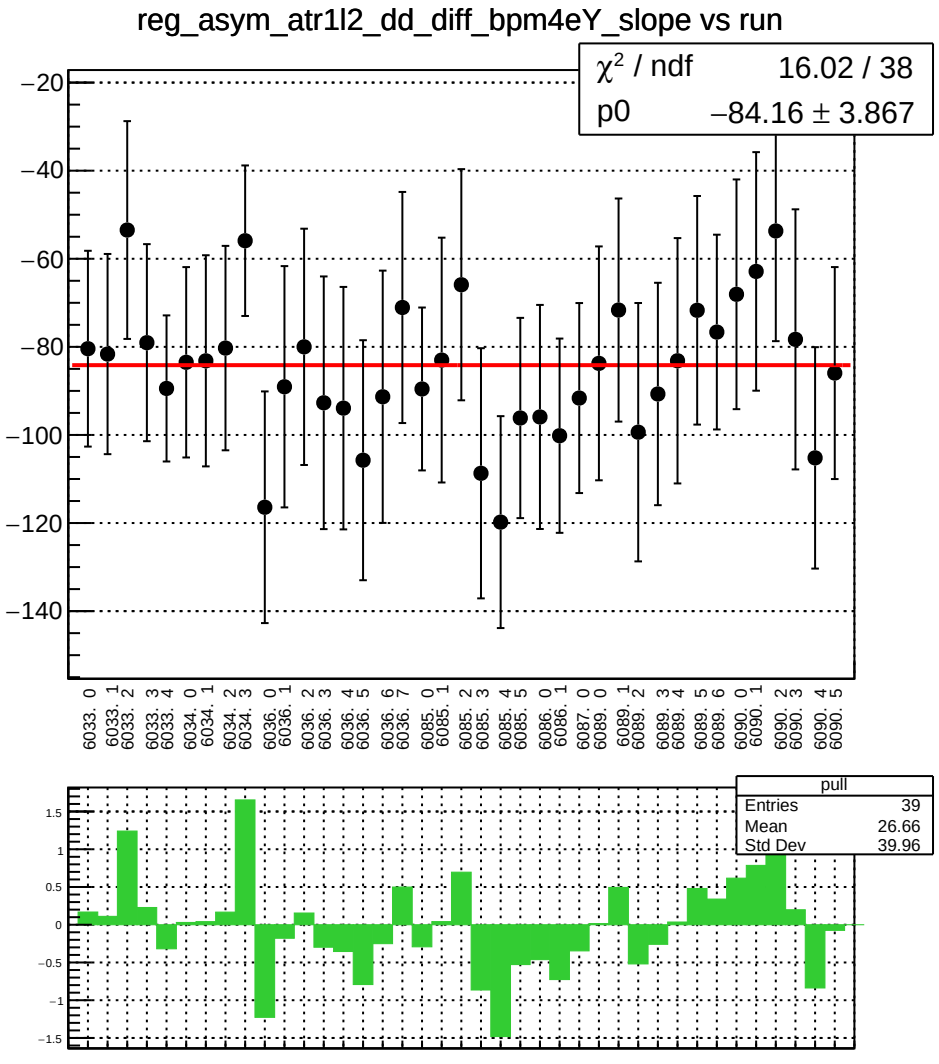

pull1D
Entries 39
Mean 0.009212
Std Dev 1.347

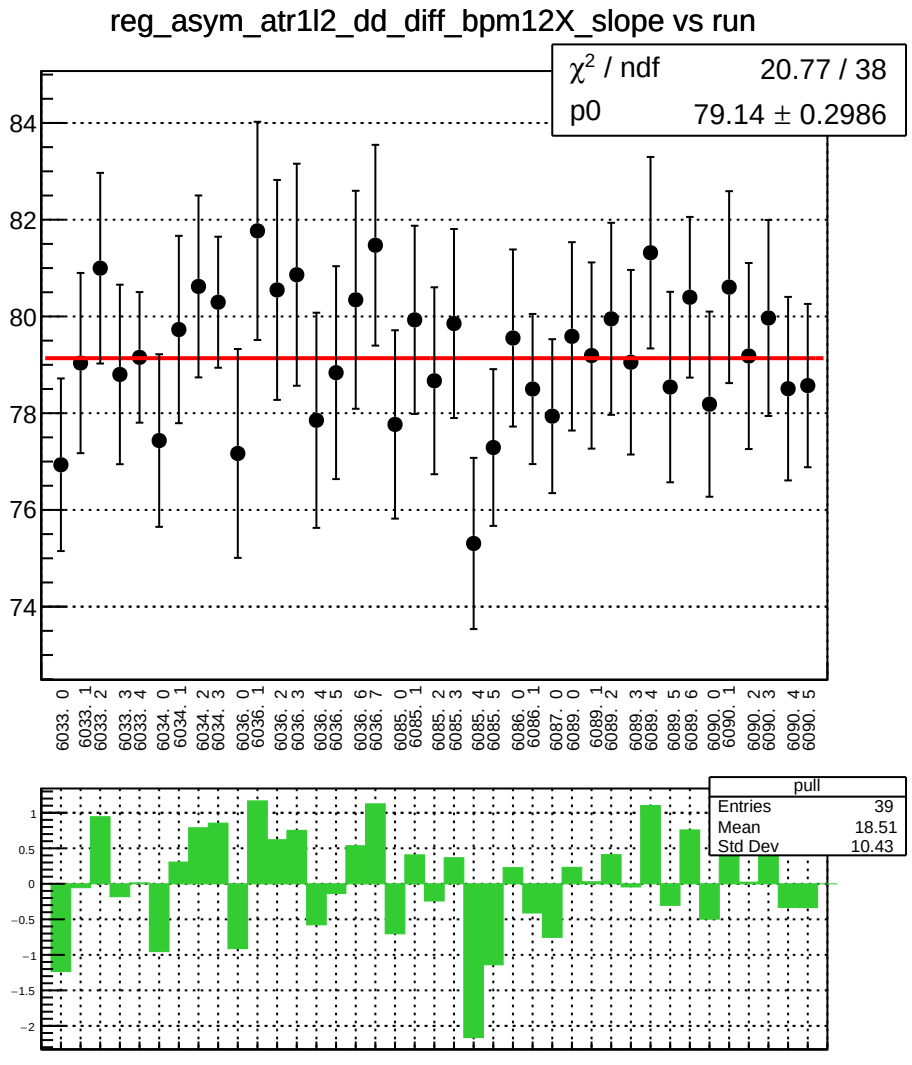

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.89 / 38
p0 164.4 ± 5.828
pull
Entries 39
Mean −18.49
Std Dev 35.6
pull1D
Entries 39
Mean 0.07198
Std Dev 0.8871

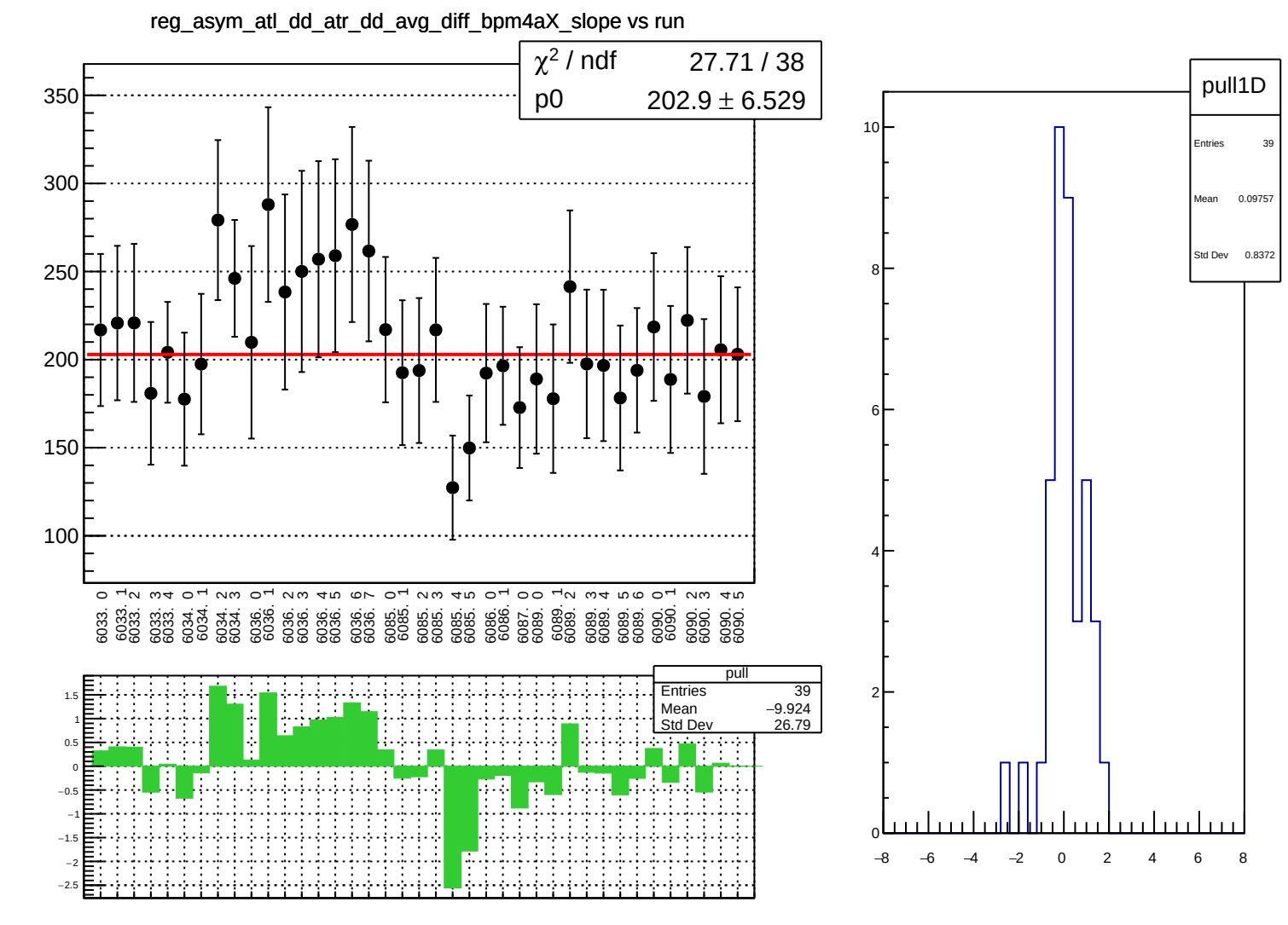

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.68 / 38
p0 23.19 ± 3.618
pull
Entries 39
Mean −86.35
Std Dev 117.4

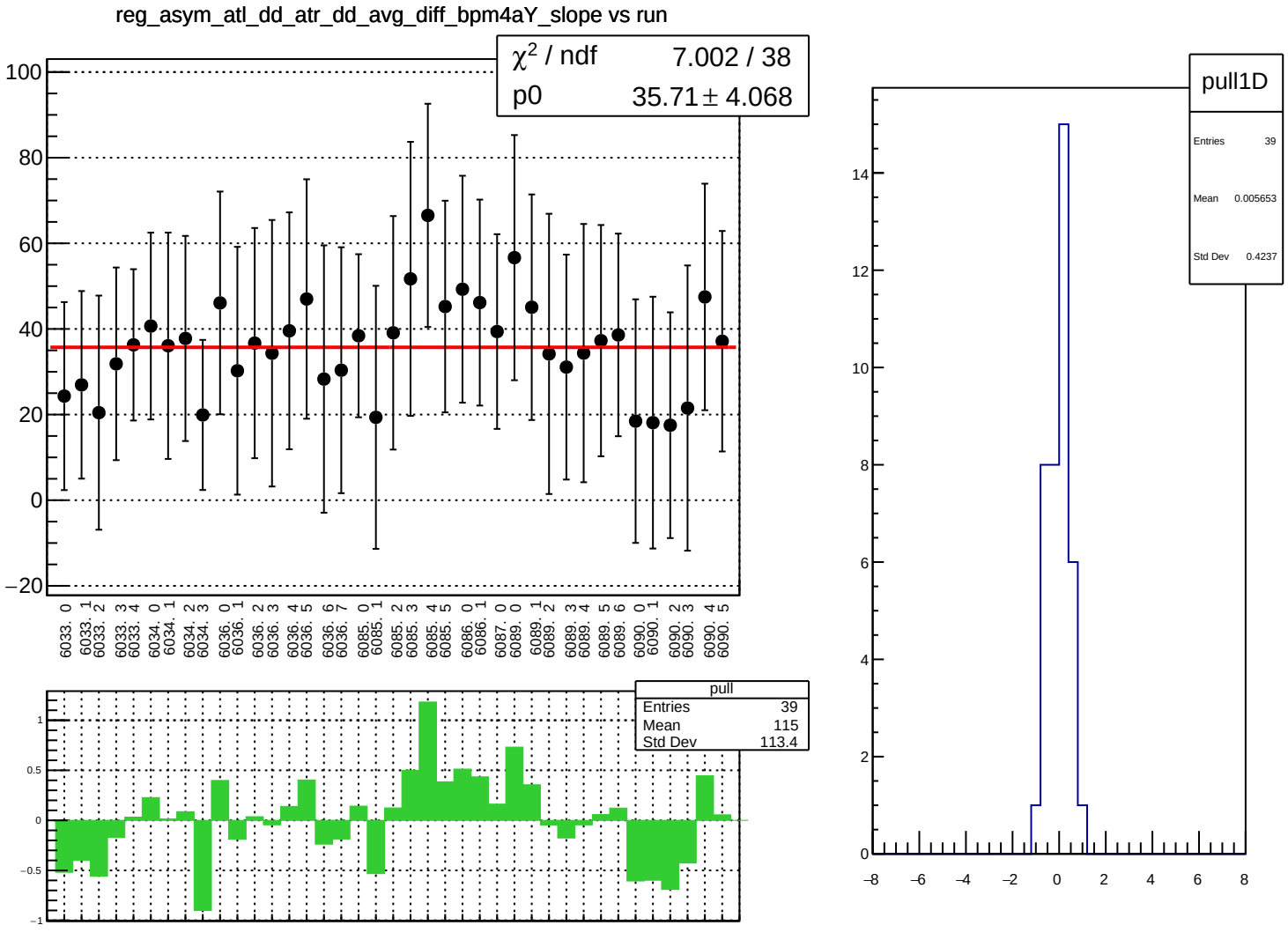

pull1D
Entries 39
Mean 0.007304
Std Dev 0.6341

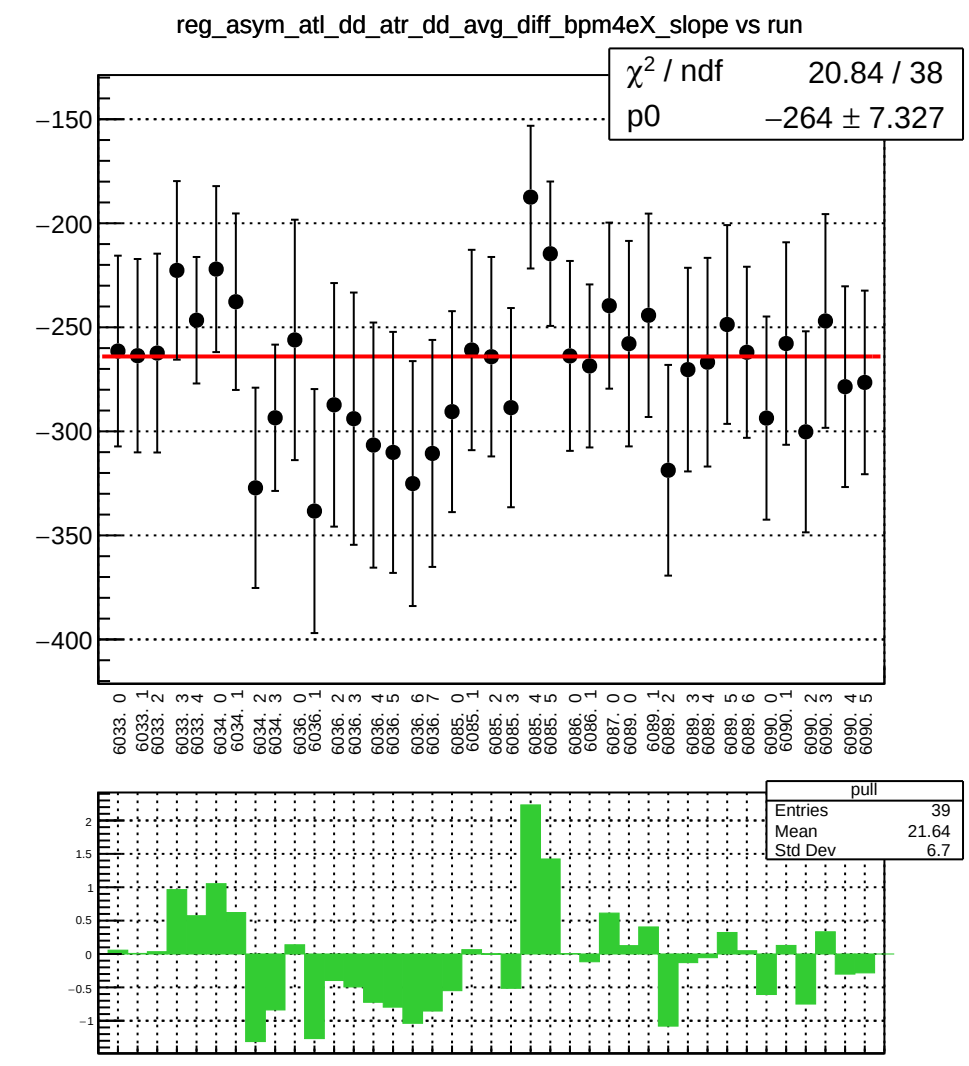

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.28 / 38
p0 −199.6 ± 6.528
−100
−150
−200
−250
−300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 27.39
Std Dev 4.586
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.05611
Std Dev 0.7707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

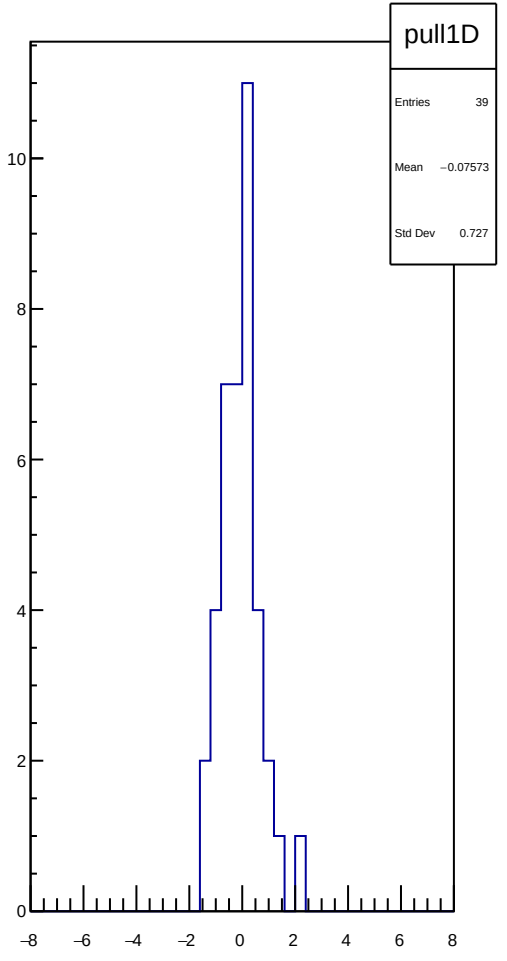

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 38
p0 −84.16 ± 3.867
−20
−40
−60
−80
−100
−120
−140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 26.66
Std Dev 39.96
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01524
Std Dev 0.6408
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

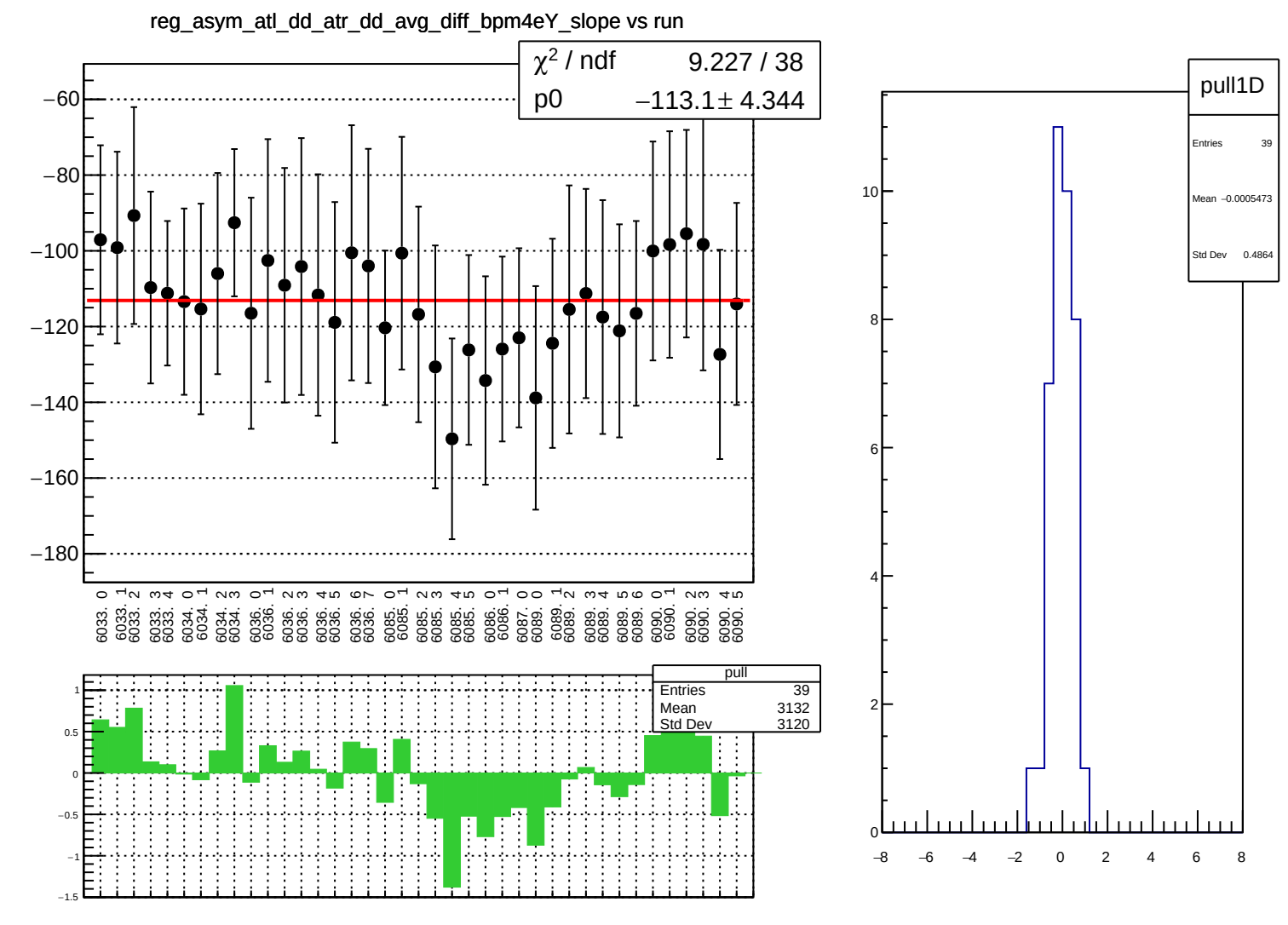

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.77 / 38
p0 79.14 ± 0.2986
84
82
80
78
76
74
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 18.51
Std Dev 10.43
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02155
Std Dev 0.7295
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

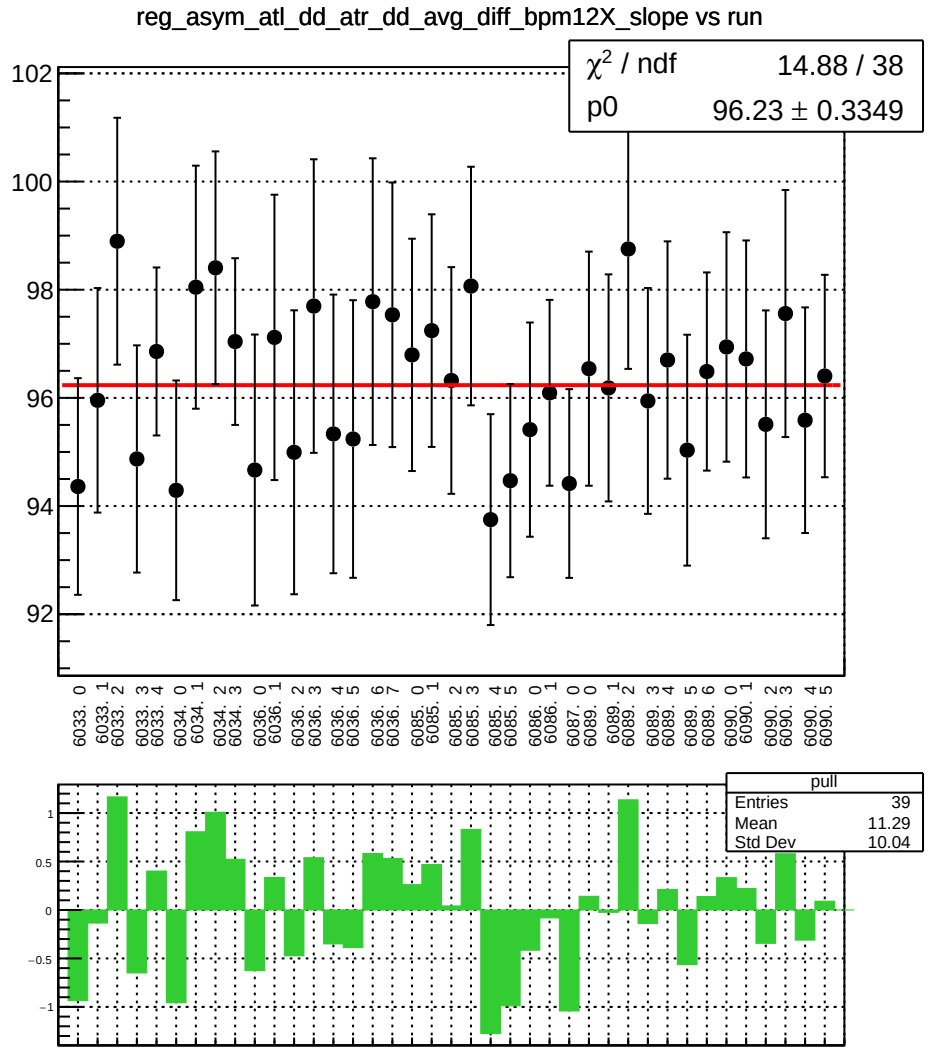

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.71 / 38
p0 202.9 ± 6.529
pull
Entries 39
Mean −9.924
Std Dev 26.79
pull1D
Entries 39
Mean 0.09757
Std Dev 0.8372

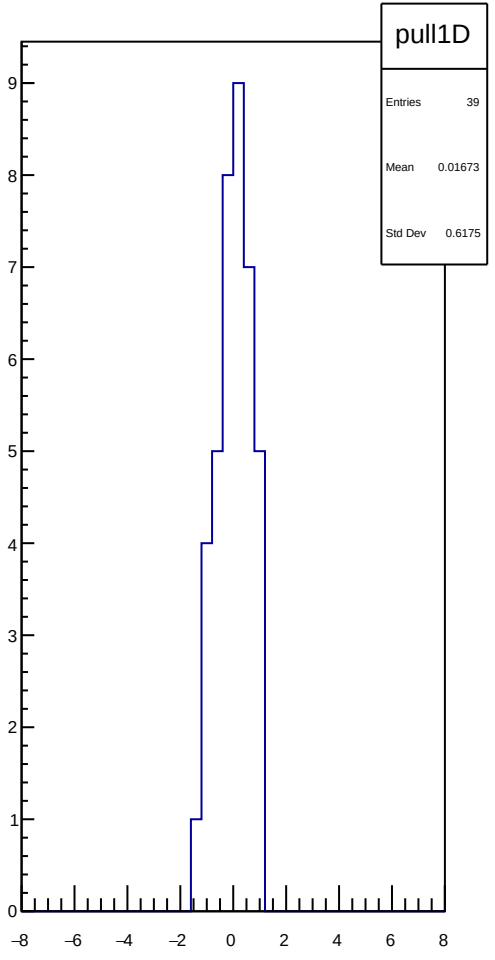

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.002 / 38
p0 35.71 ± 4.068
pull
Entries 39
Mean 115
Std Dev 113.4
pull1D
Entries 39
Mean 0.005653
Std Dev 0.4237

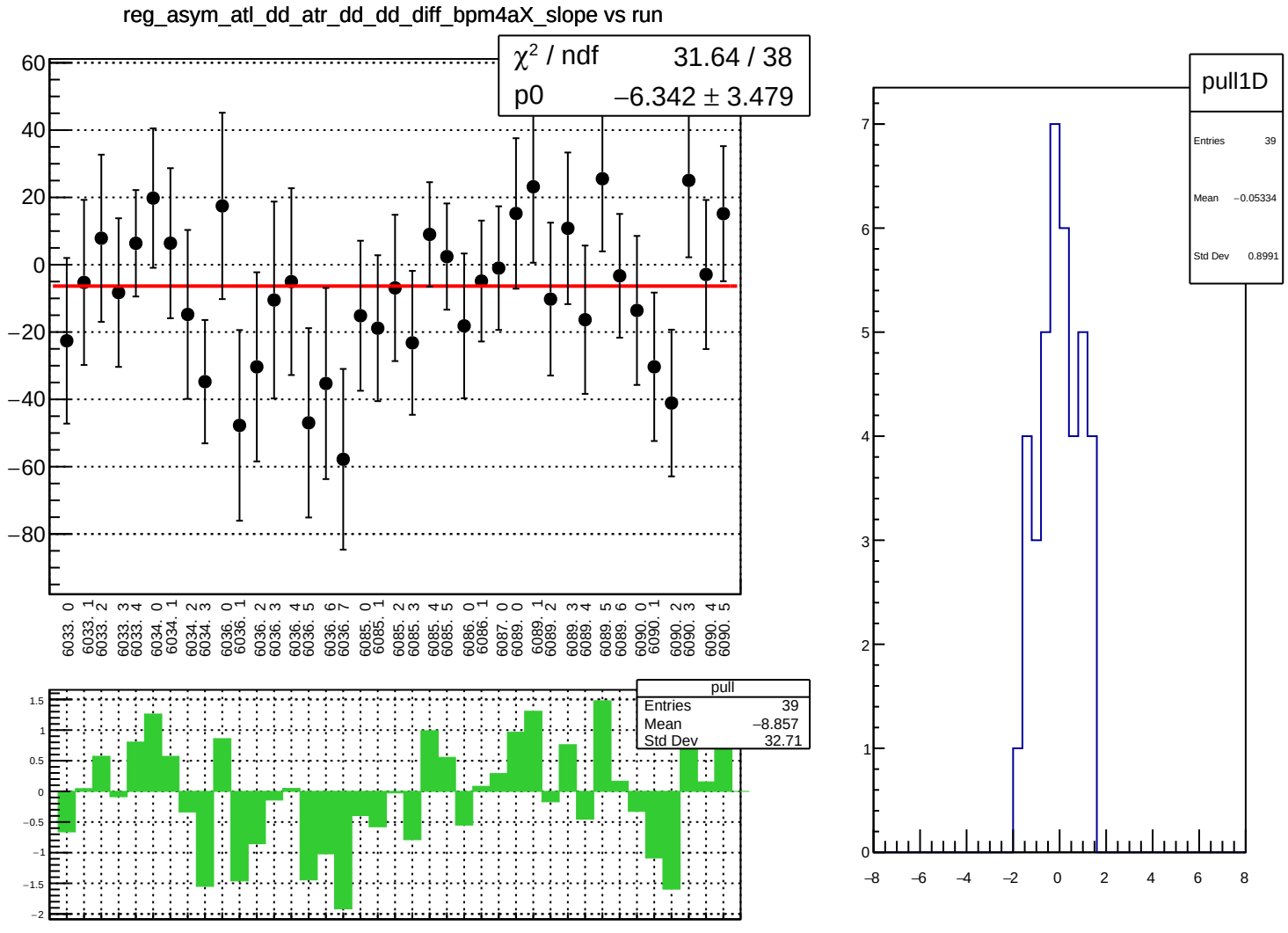

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.84 / 38
p0 −264 ± 7.327
−150
−200
−250
−300
−350
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 21.64
Std Dev 6.7
2
1.5
1
0.5
0
−0.5
−1

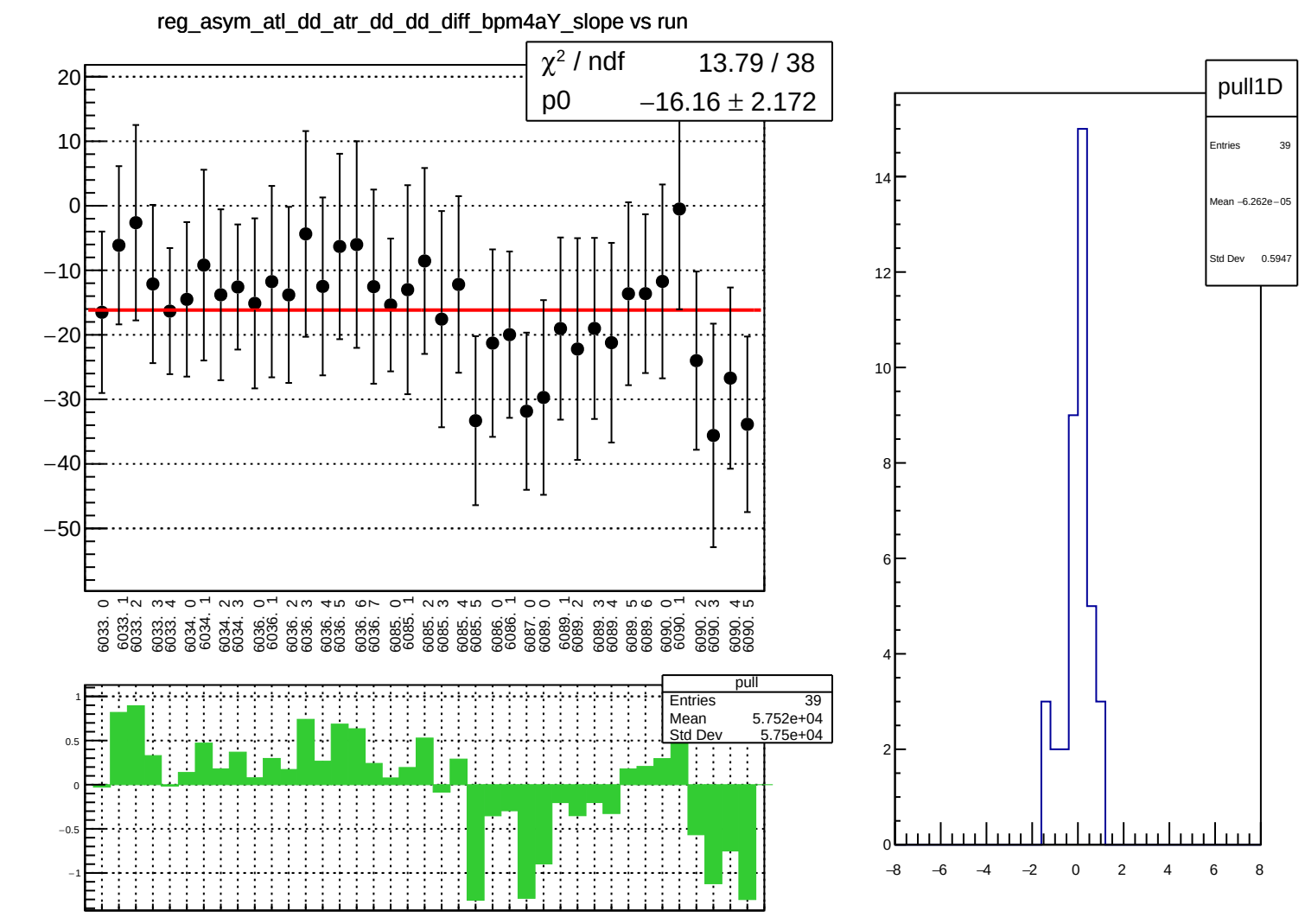

pull1D
Entries 39
Mean −0.07573
Std Dev 0.727
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

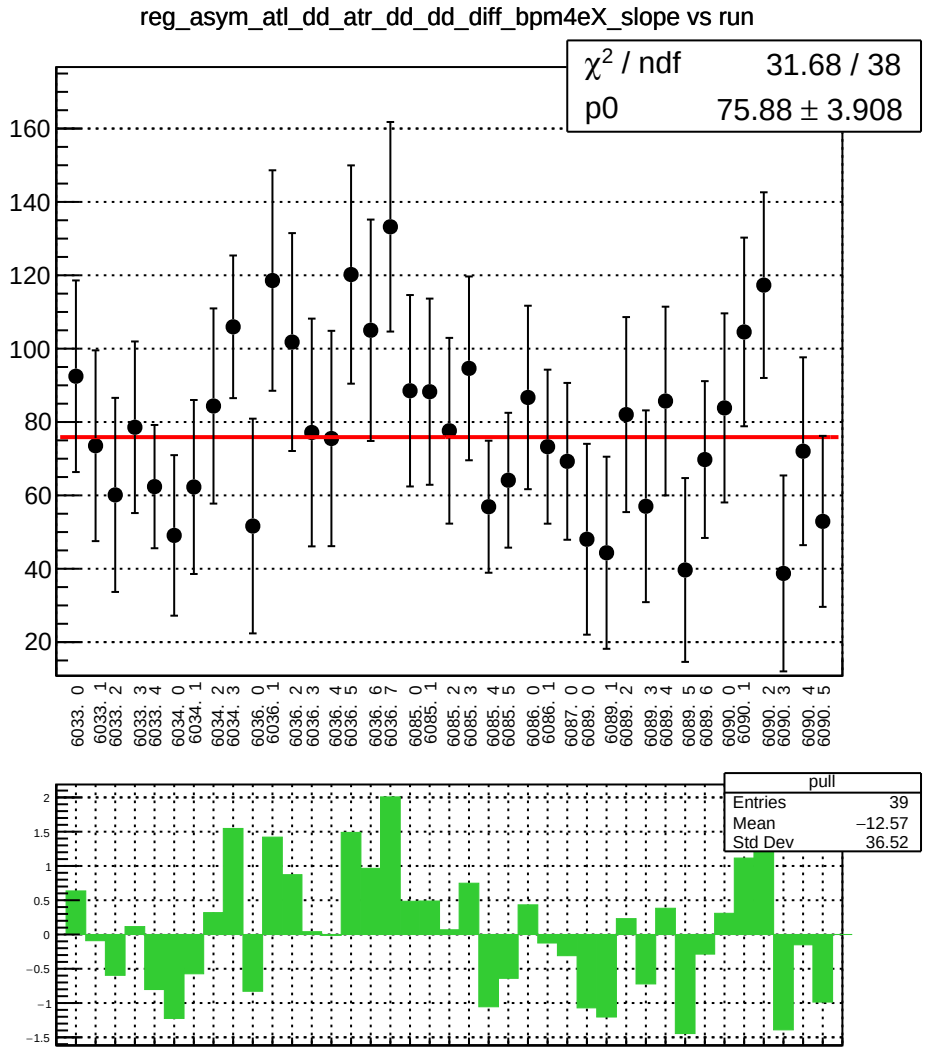

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.227 / 38
p0 −113.1 ± 4.344
−60
−80
−100
−120
−140
−160
−180
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3132
Std Dev 3120
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0005473
Std Dev 0.4864
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

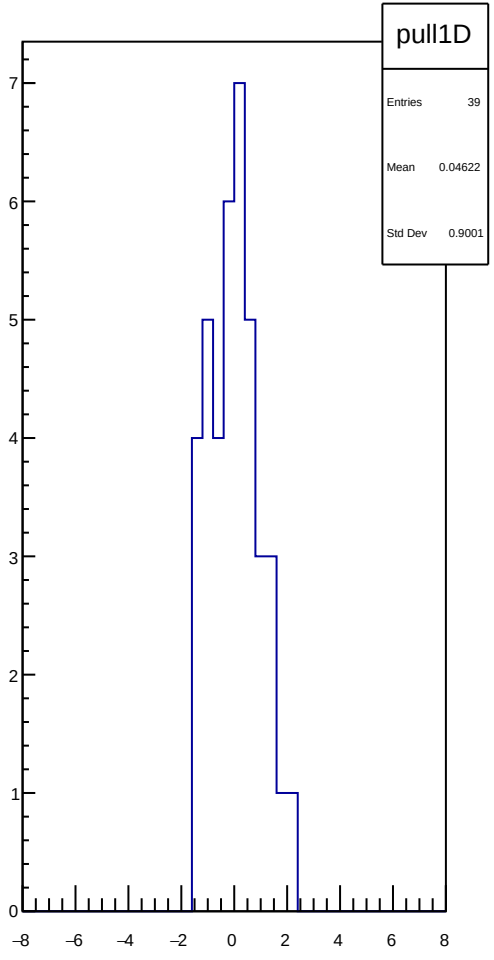

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 14.88 / 38
p0 96.23 ± 0.3349
102
100
98
96
94
92
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.29
Std Dev 10.04
1
0.5
0
−0.5
−1

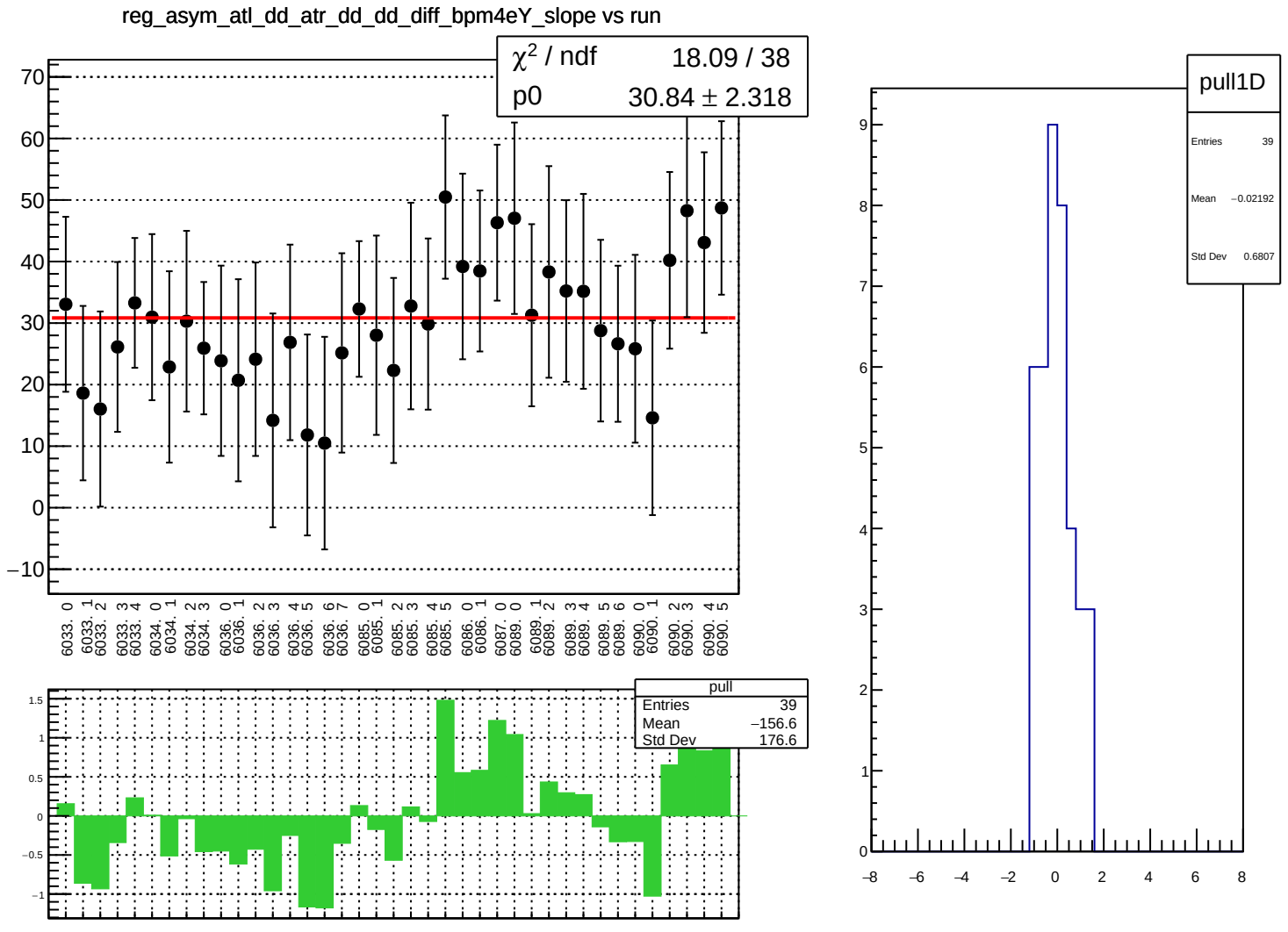

pull1D
Entries 39
Mean 0.01673
Std Dev 0.6175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

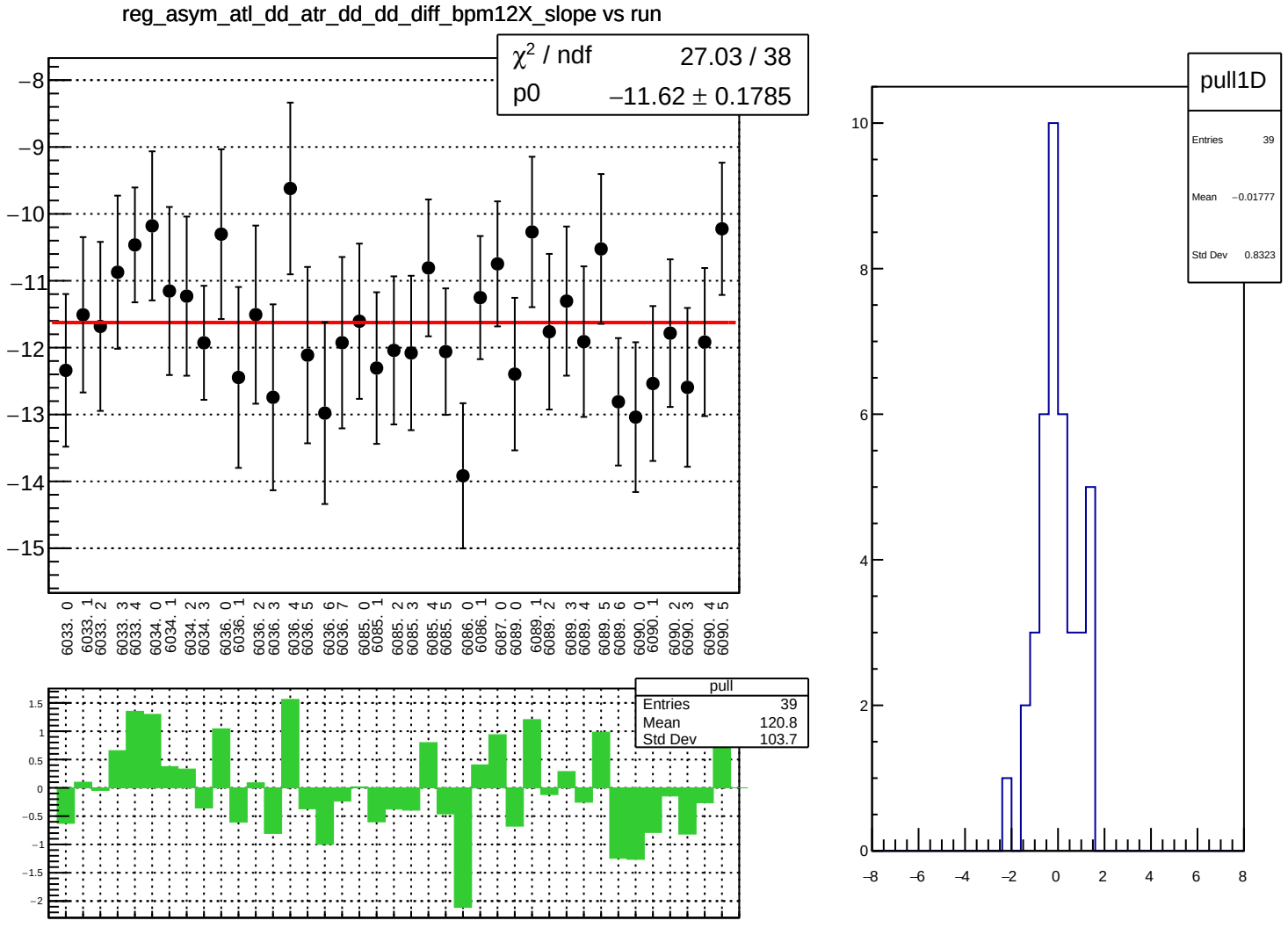

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.64 / 38
p0 −6.342 ± 3.479
60
40
20
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −8.857
Std Dev 32.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.05334
Std Dev 0.8991
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

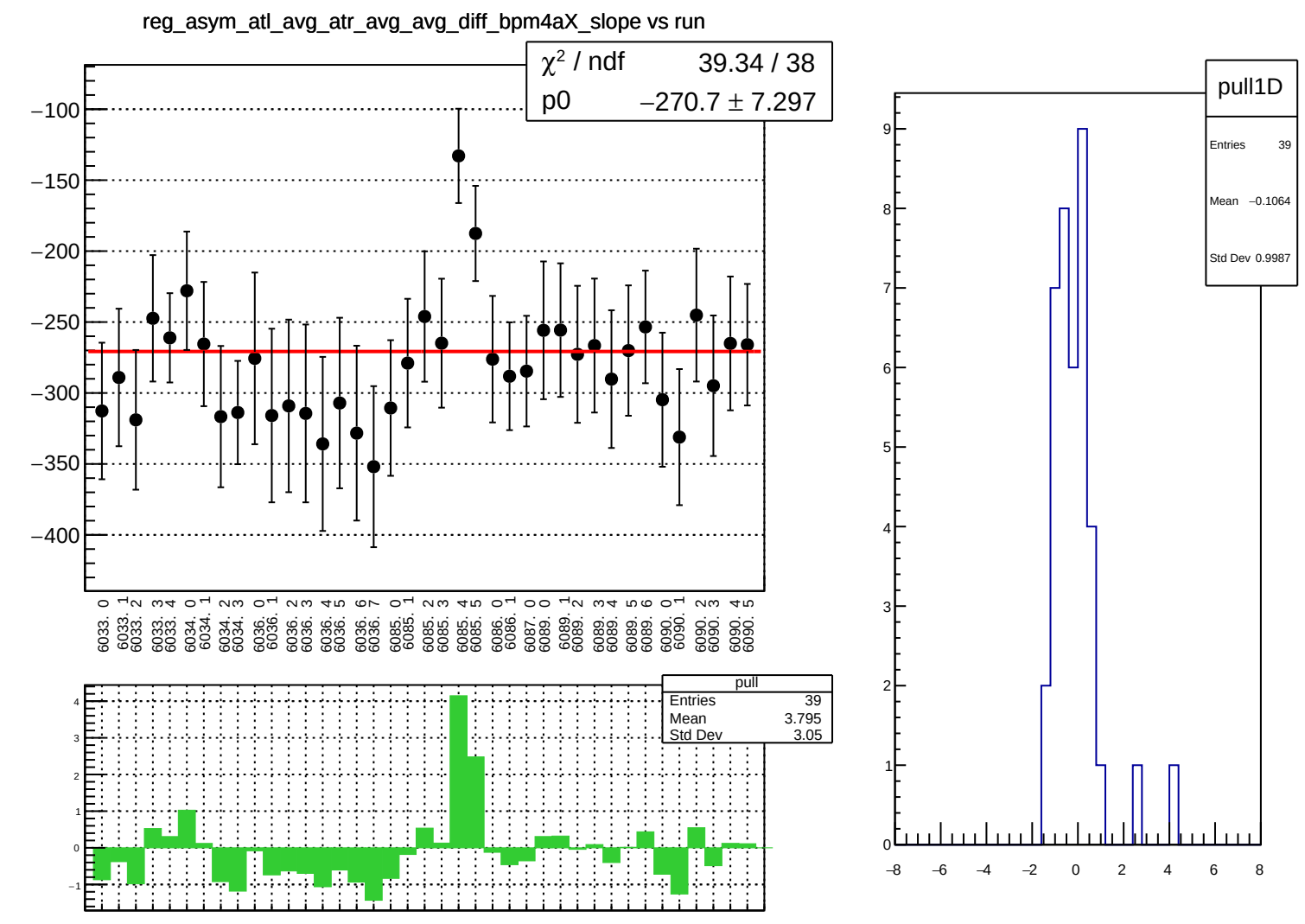

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.79 / 38
p0 −16.16 ± 2.172
pull
Entries 39
Mean 5.752e+04
Std Dev 5.75e+04
pull1D
Entries 39
Mean −6.262e−05
Std Dev 0.5947

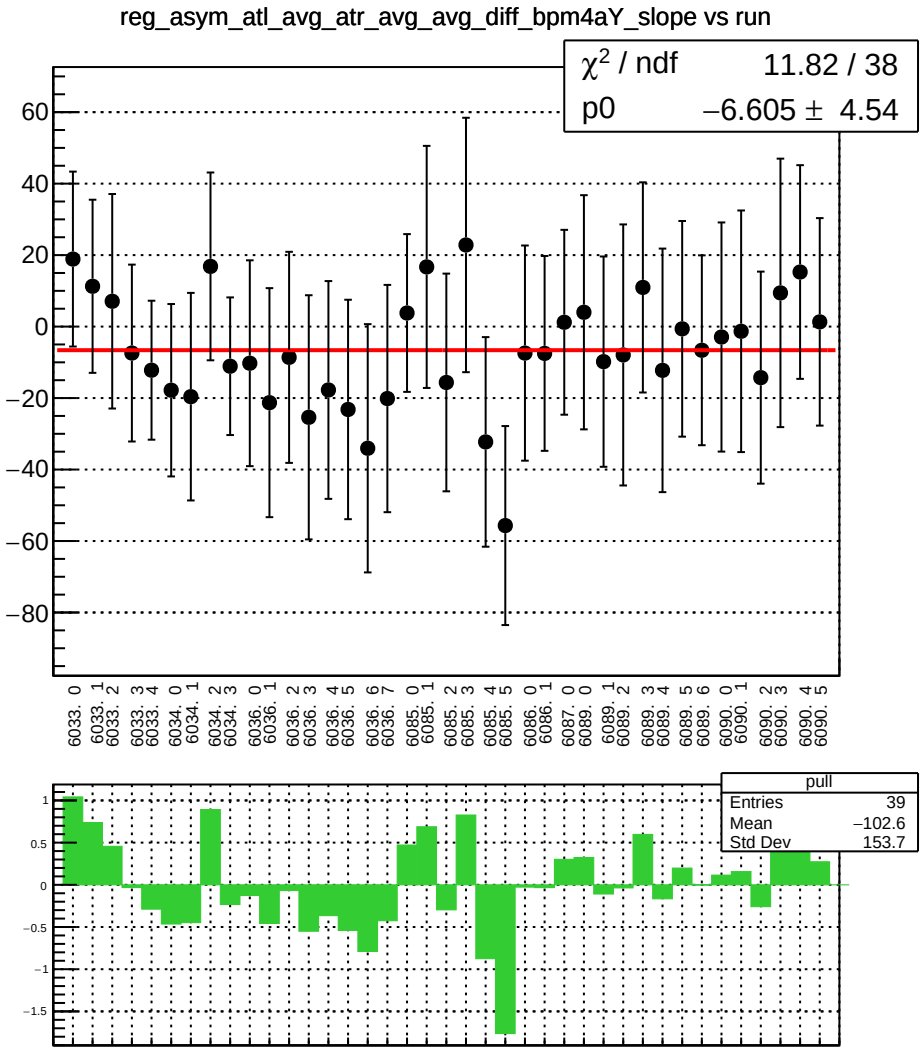

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.68 / 38
p0 75.88 ± 3.908
160
140
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −12.57
Std Dev 36.52
2
1.5
1
0.5
0
−0.5
−1
−1.5

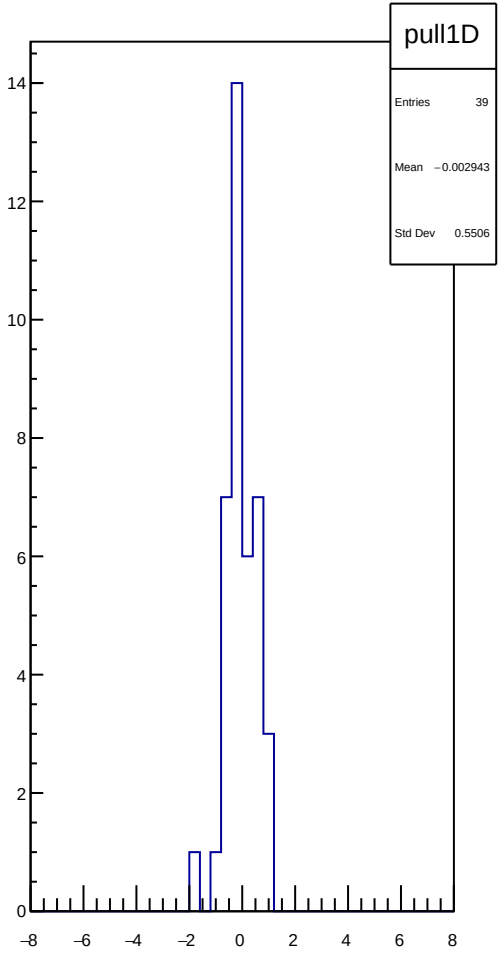

pull1D
Entries 39
Mean 0.04622
Std Dev 0.9001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

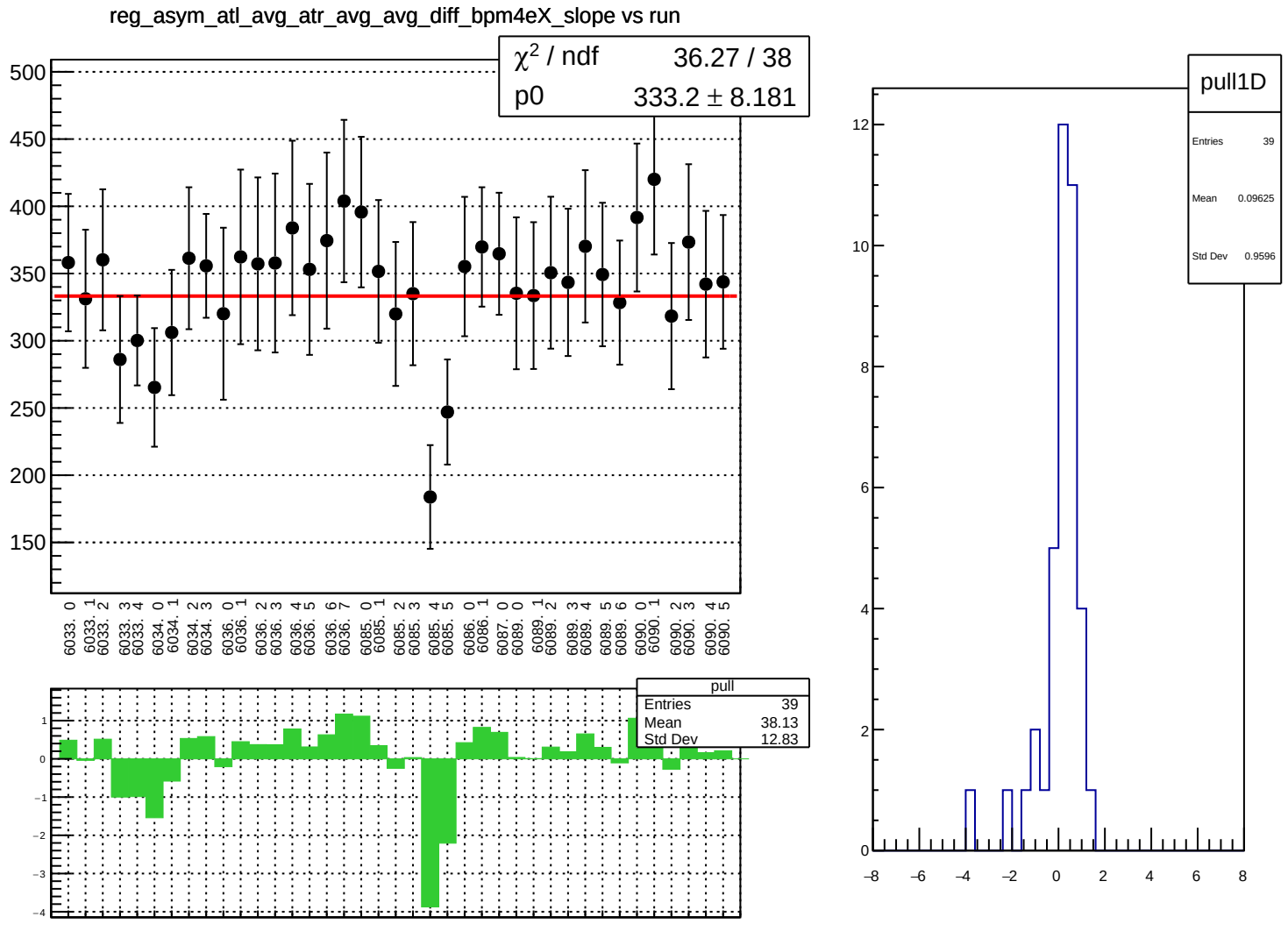

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.09 / 38
p0 30.84 ± 2.318
pull
Entries 39
Mean −156.6
Std Dev 176.6
pull1D
Entries 39
Mean −0.02192
Std Dev 0.6807

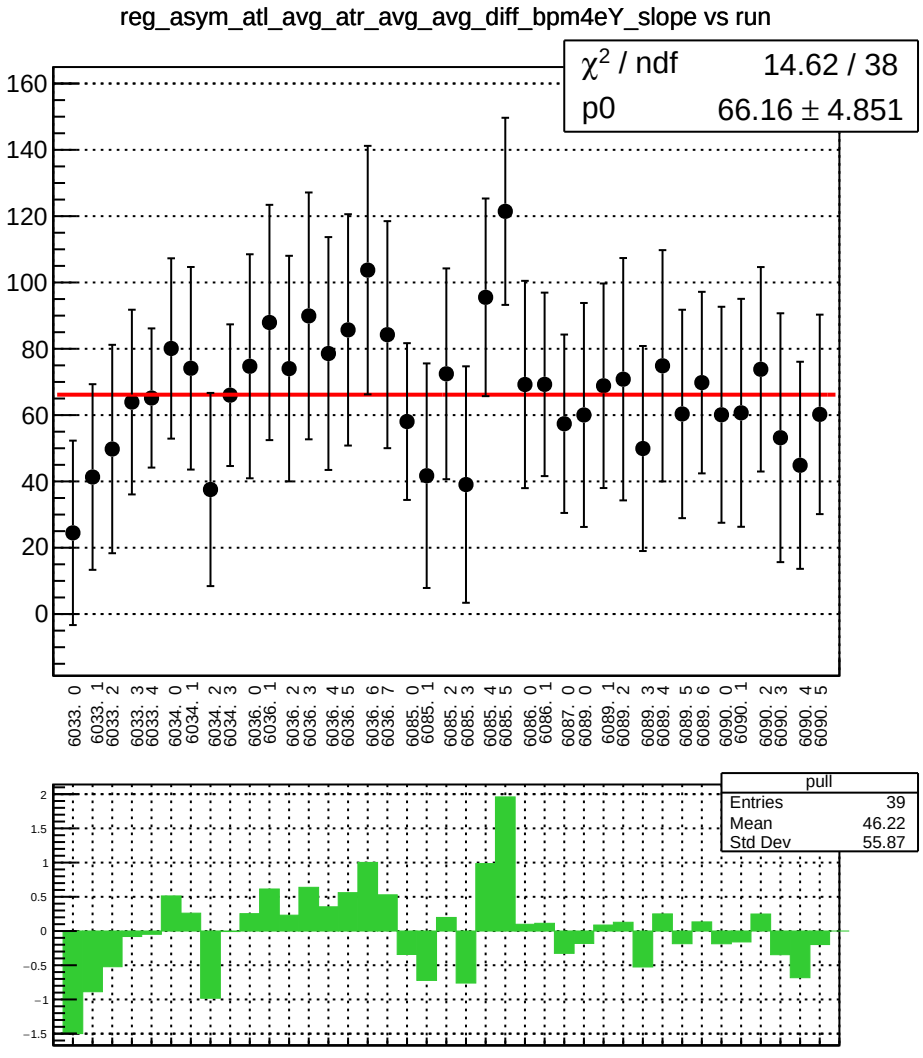

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 27.03 / 38
p0 −11.62 ± 0.1785
pull
Entries 39
Mean 120.8
Std Dev 103.7
pull1D
Entries 39
Mean −0.01777
Std Dev 0.8323

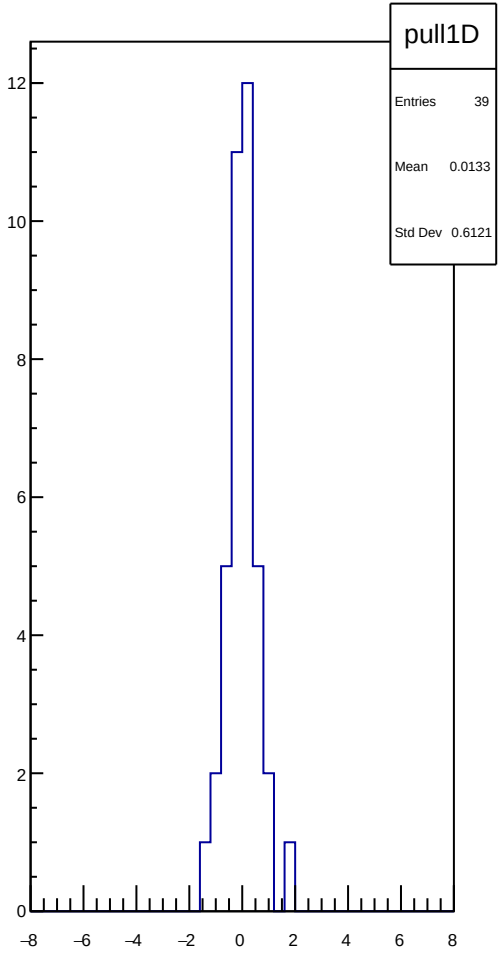

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.34 / 38
p0 −270.7 ± 7.297
−100
−150
−200
−250
−300
−350
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.795
Std Dev 3.05
pull1D
Entries 39
Mean −0.1064
Std Dev 0.9987

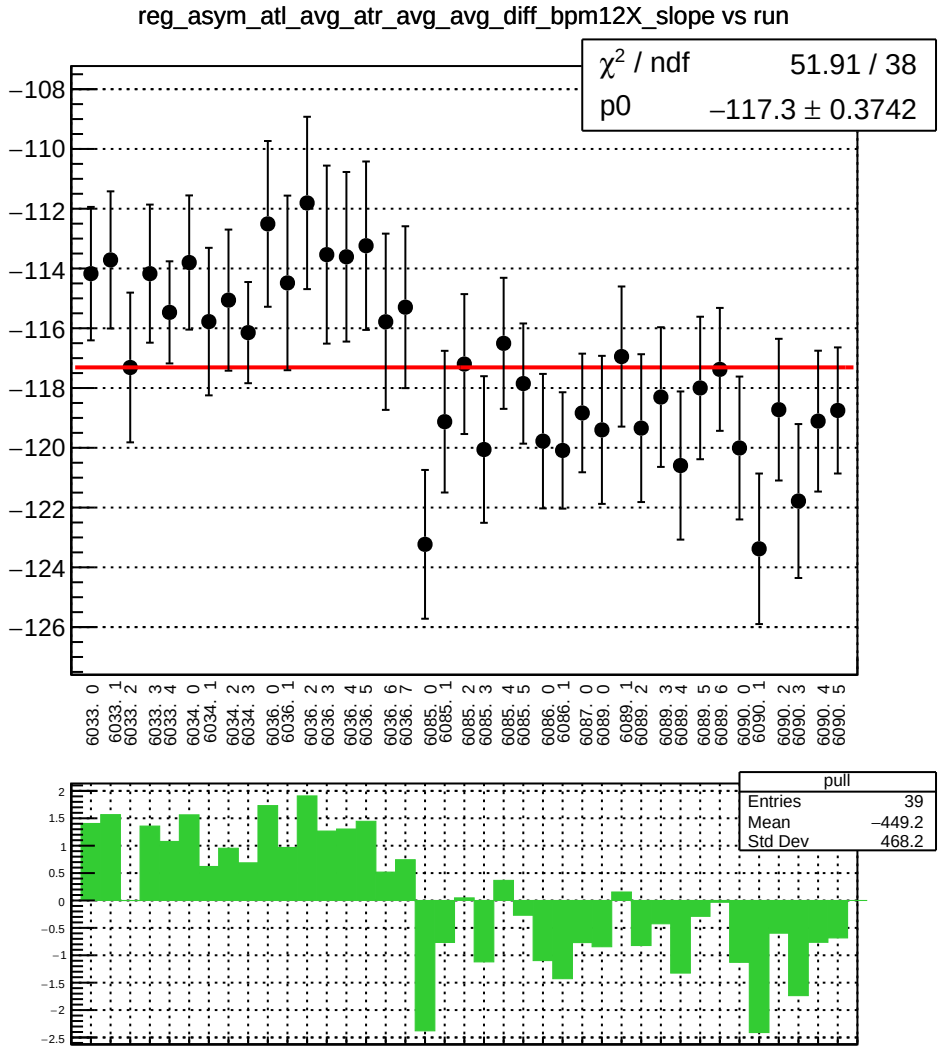

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.82 / 38
p0 −6.605 ± 4.54
pull
Entries 39
Mean −102.6
Std Dev 153.7

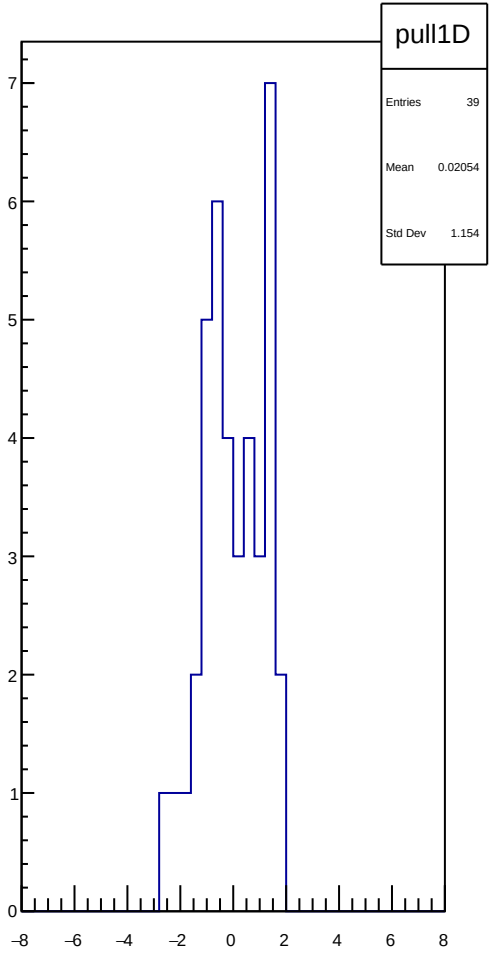

pull1D
Entries 39
Mean −0.002943
Std Dev 0.5506

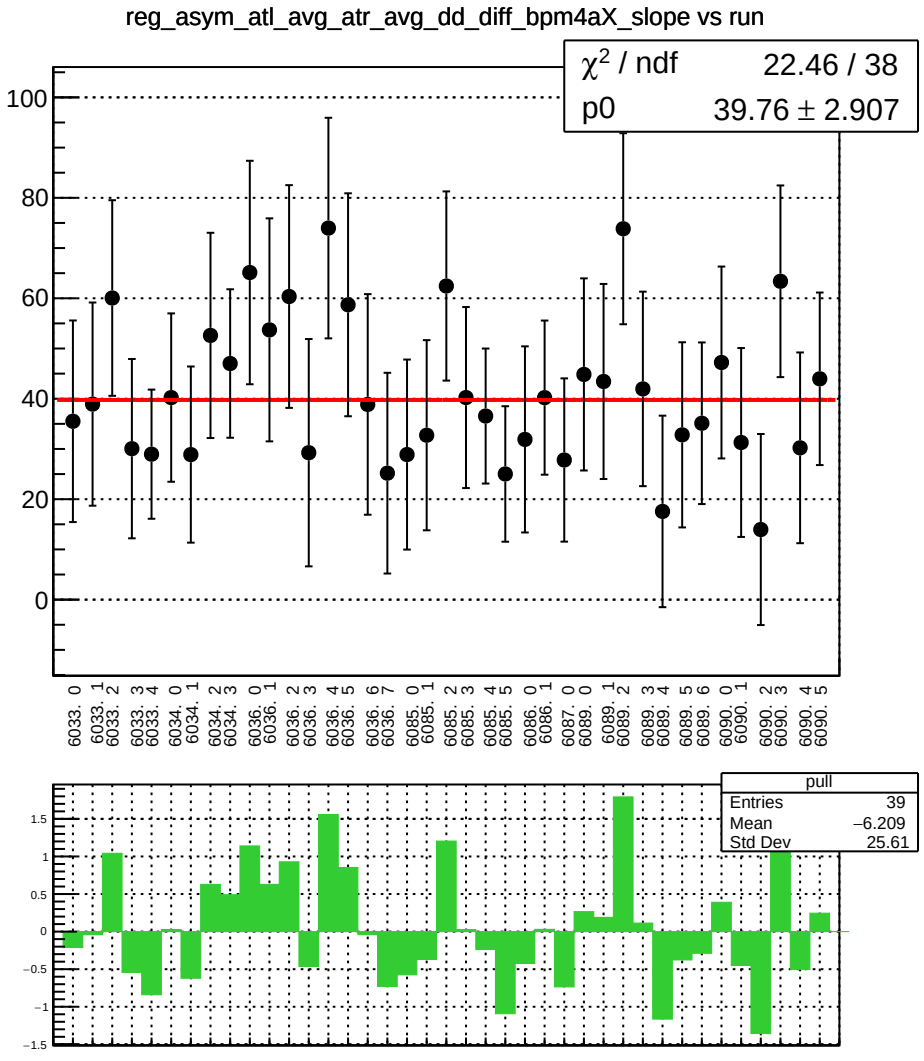

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.27 / 38
p0 333.2 ± 8.181
500
450
400
350
300
250
200
150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 38.13
Std Dev 12.83
1
0
−1
−2
−3
−4
pull1D
Entries 39
Mean 0.09625
Std Dev 0.9596
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

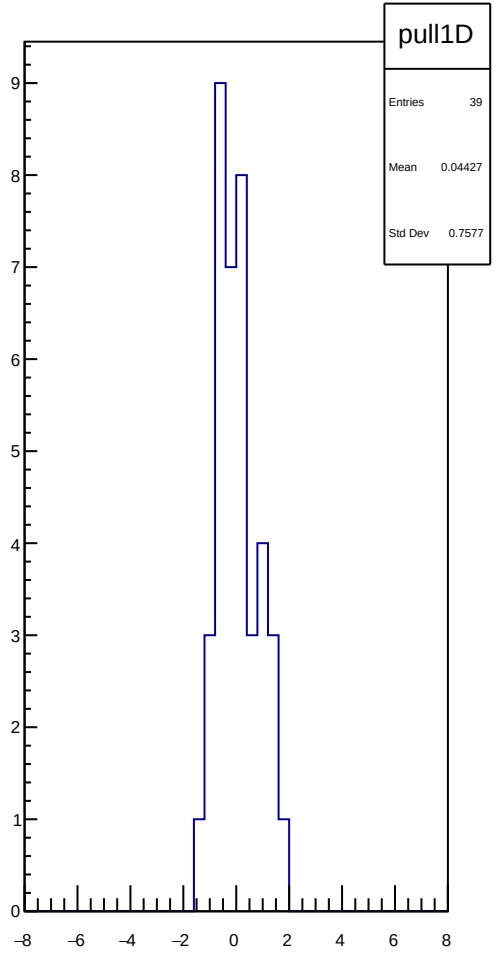

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.62 / 38
p0 66.16 ± 4.851
pull
Entries 39
Mean 46.22
Std Dev 55.87

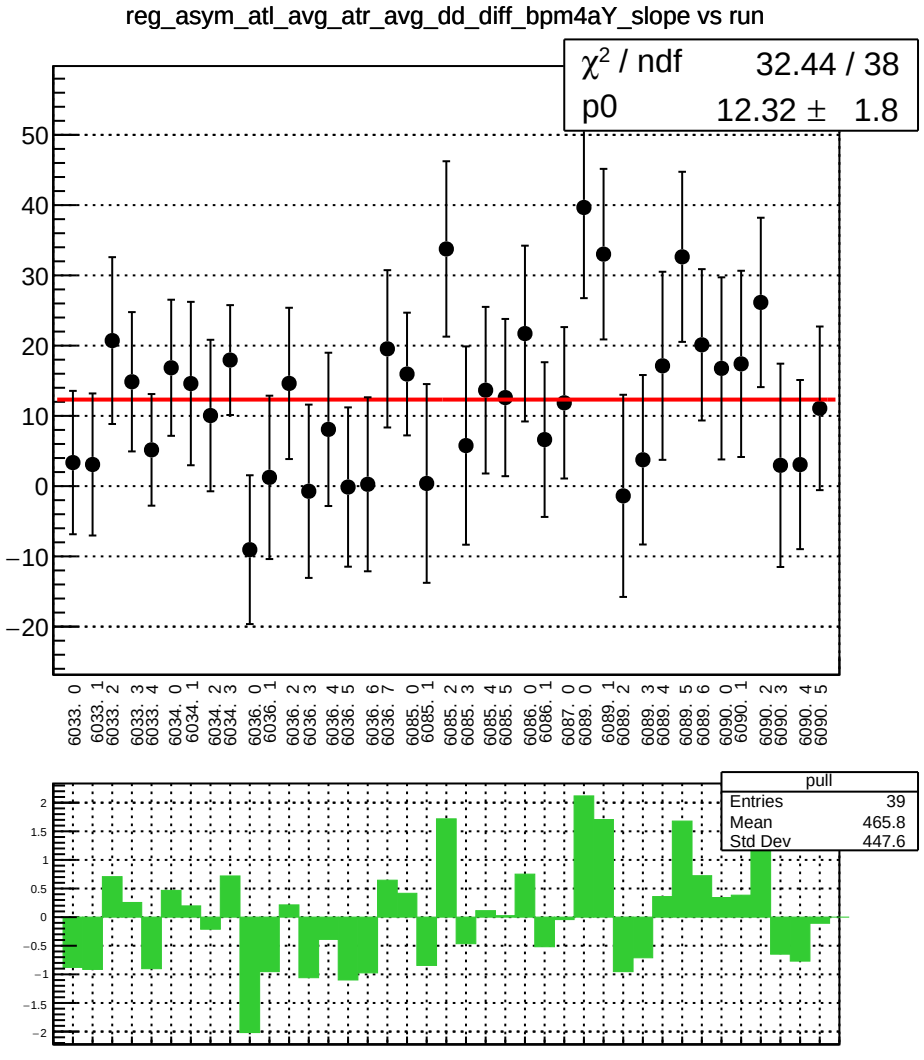

pull1D
Entries 39
Mean 0.0133
Std Dev 0.6121

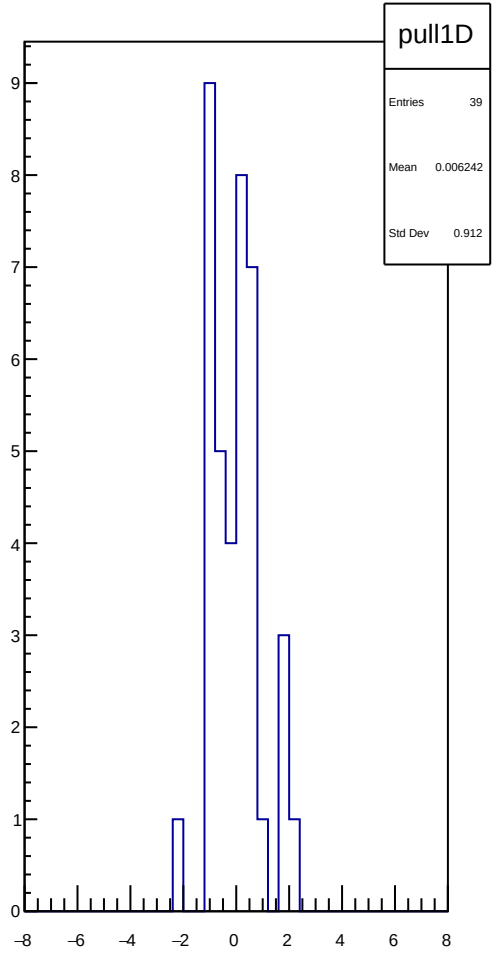

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 51.91 / 38
p0 −117.3 ± 0.3742
pull
Entries 39
Mean −449.2
Std Dev 468.2

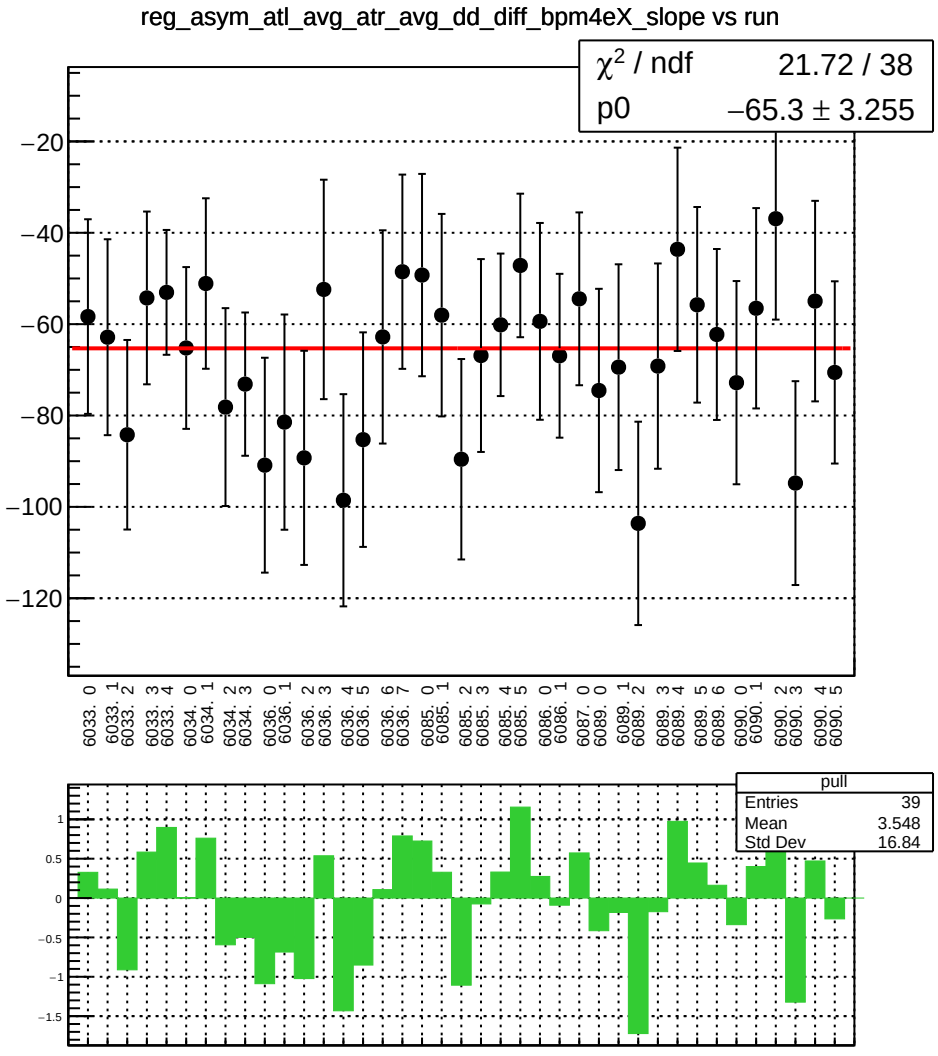

pull1D
Entries 39
Mean 0.02054
Std Dev 1.154

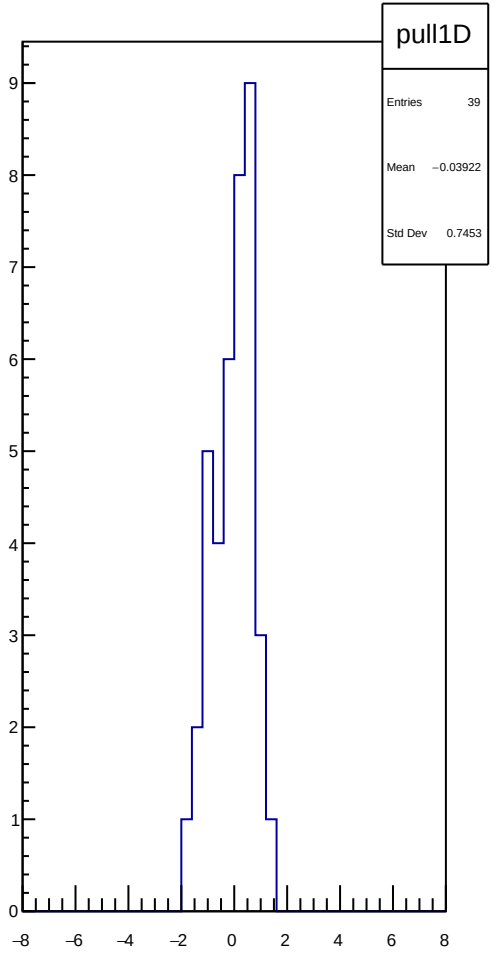

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.46 / 38
p0 39.76 ± 2.907
pull
Entries 39
Mean −6.209
Std Dev 25.61

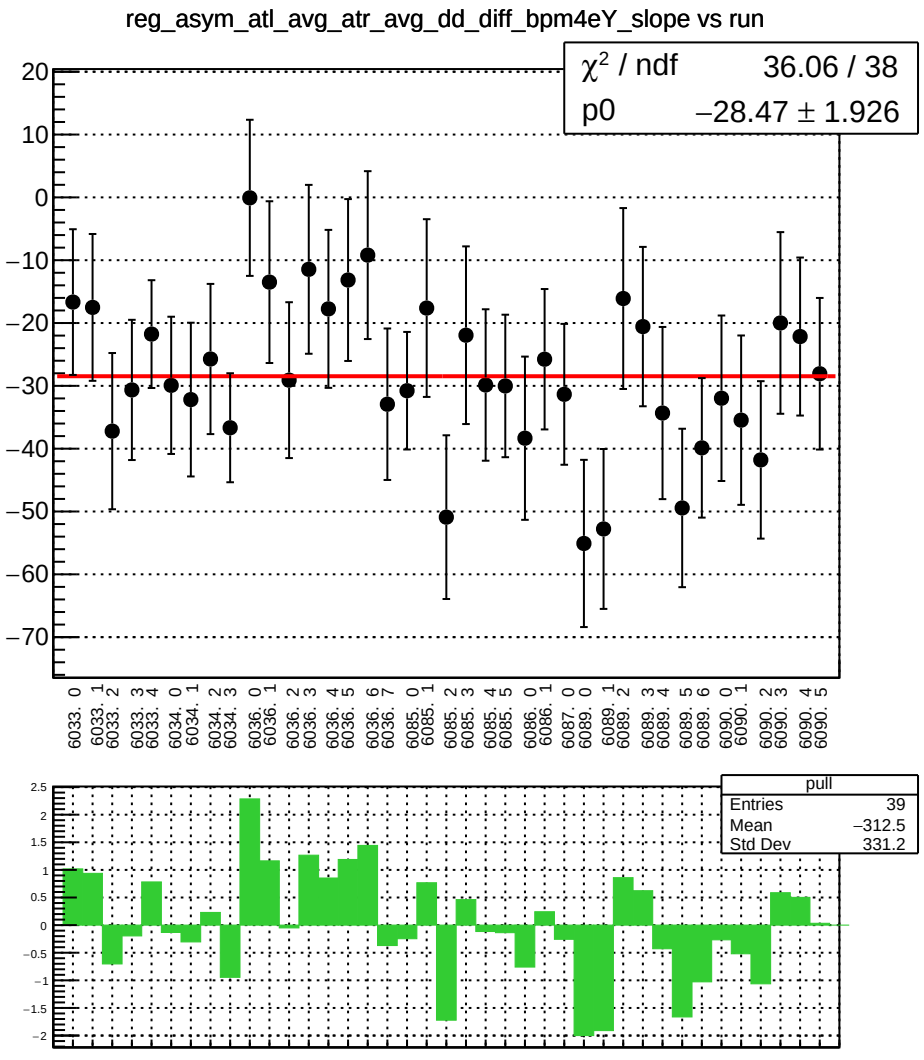

pull1D
Entries 39
Mean 0.04427
Std Dev 0.7577

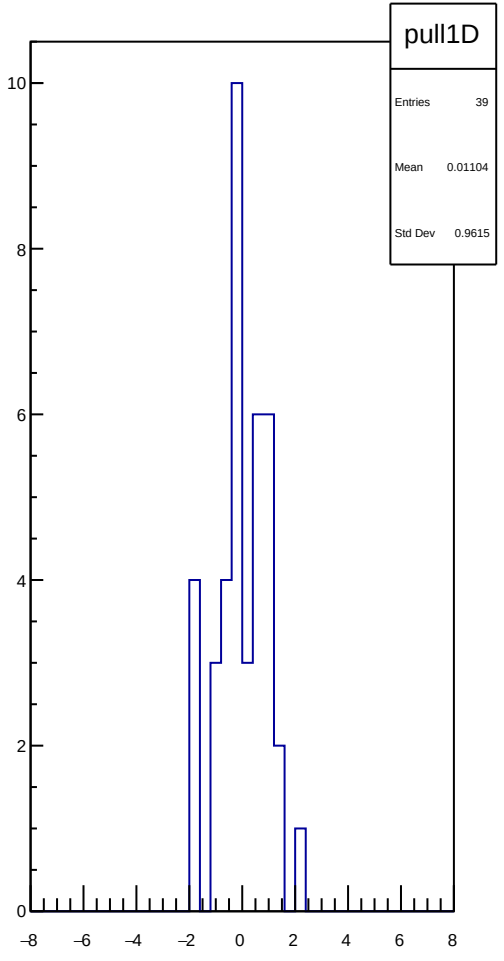

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.44 / 38
p0 12.32 ± 1.8
pull
Entries 39
Mean 465.8
Std Dev 447.6

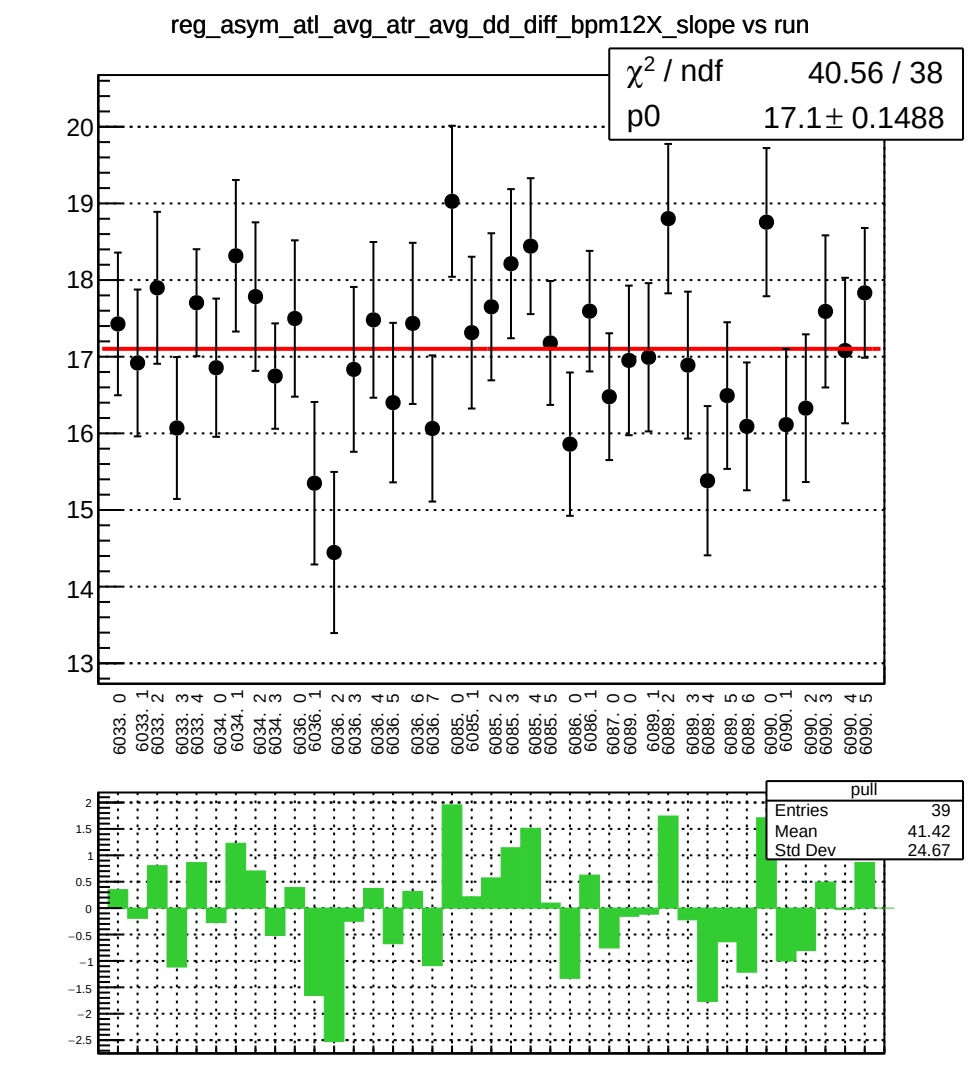

pull1D
Entries 39
Mean 0.006242
Std Dev 0.912

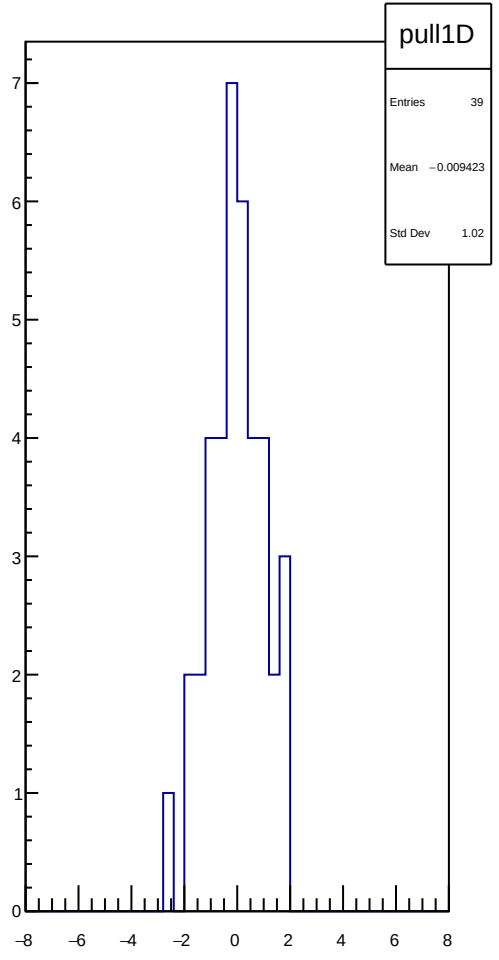

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.72 / 38
p0 −65.3 ± 3.255
−20
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.548
Std Dev 16.84
1
0.5
0
−0.5
−1
−1.5

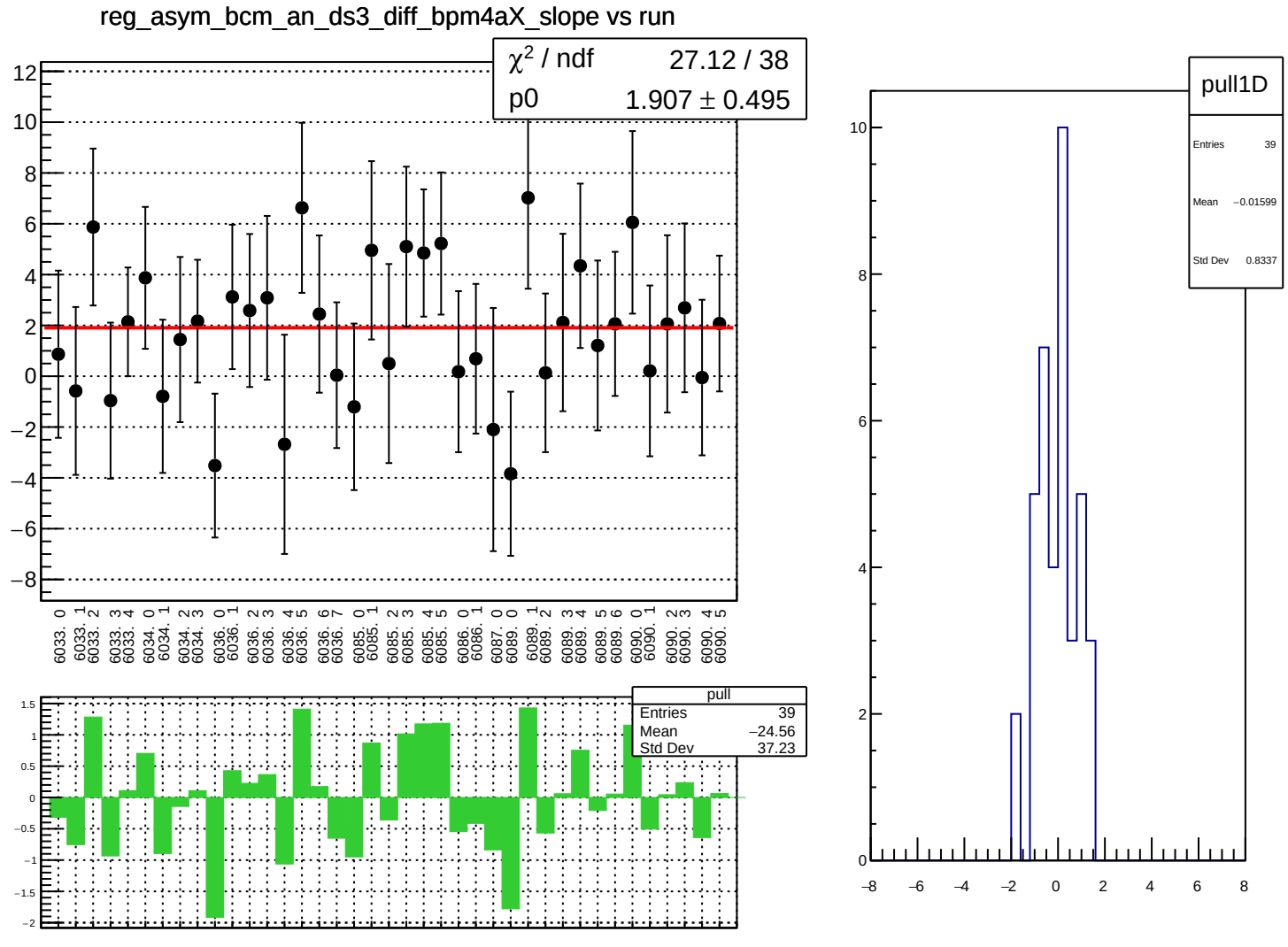

pull1D
Entries 39
Mean −0.03922
Std Dev 0.7453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

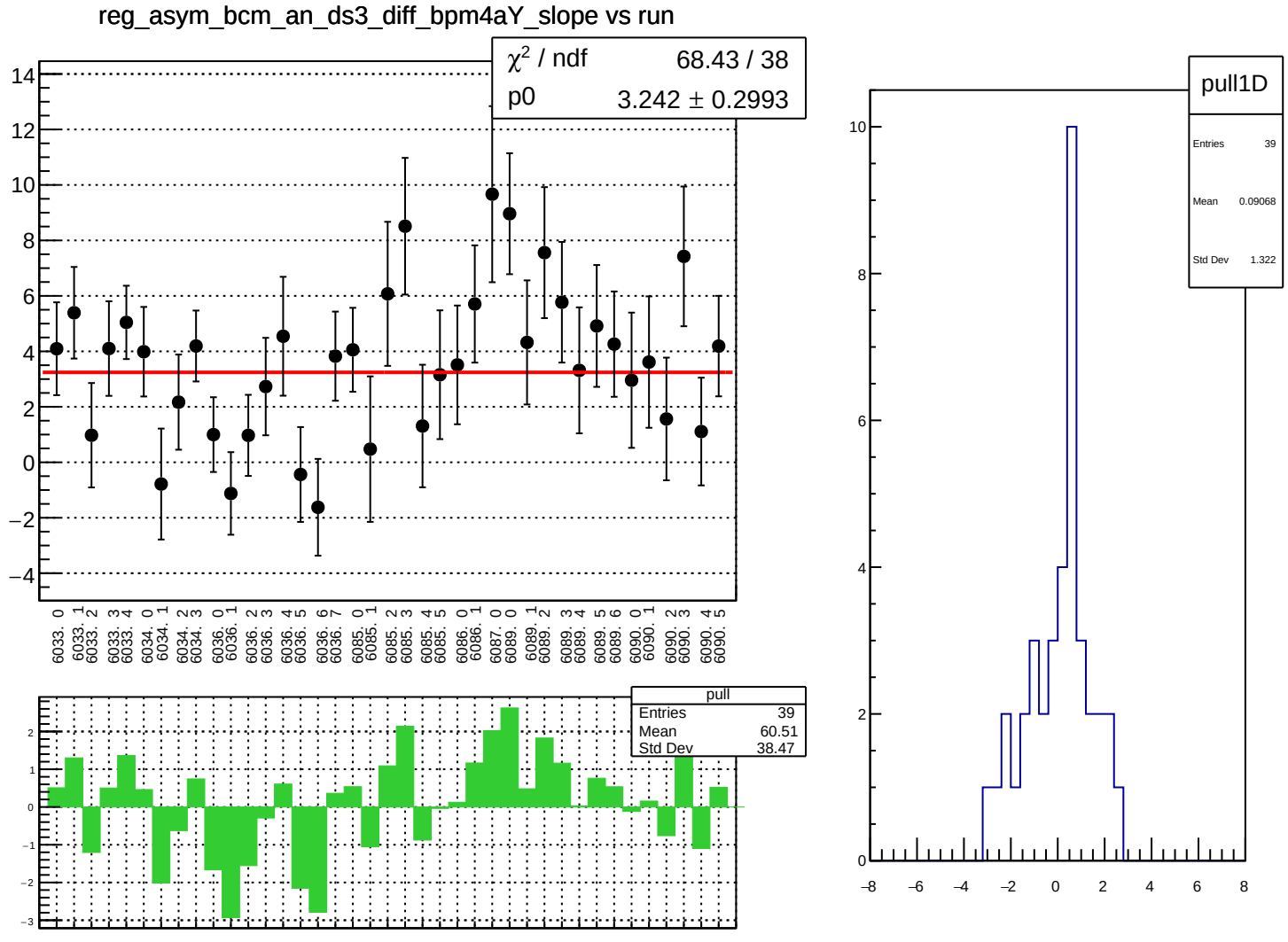

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.06 / 38
p0 −28.47 ± 1.926
pull
Entries 39
Mean −312.5
Std Dev 331.2

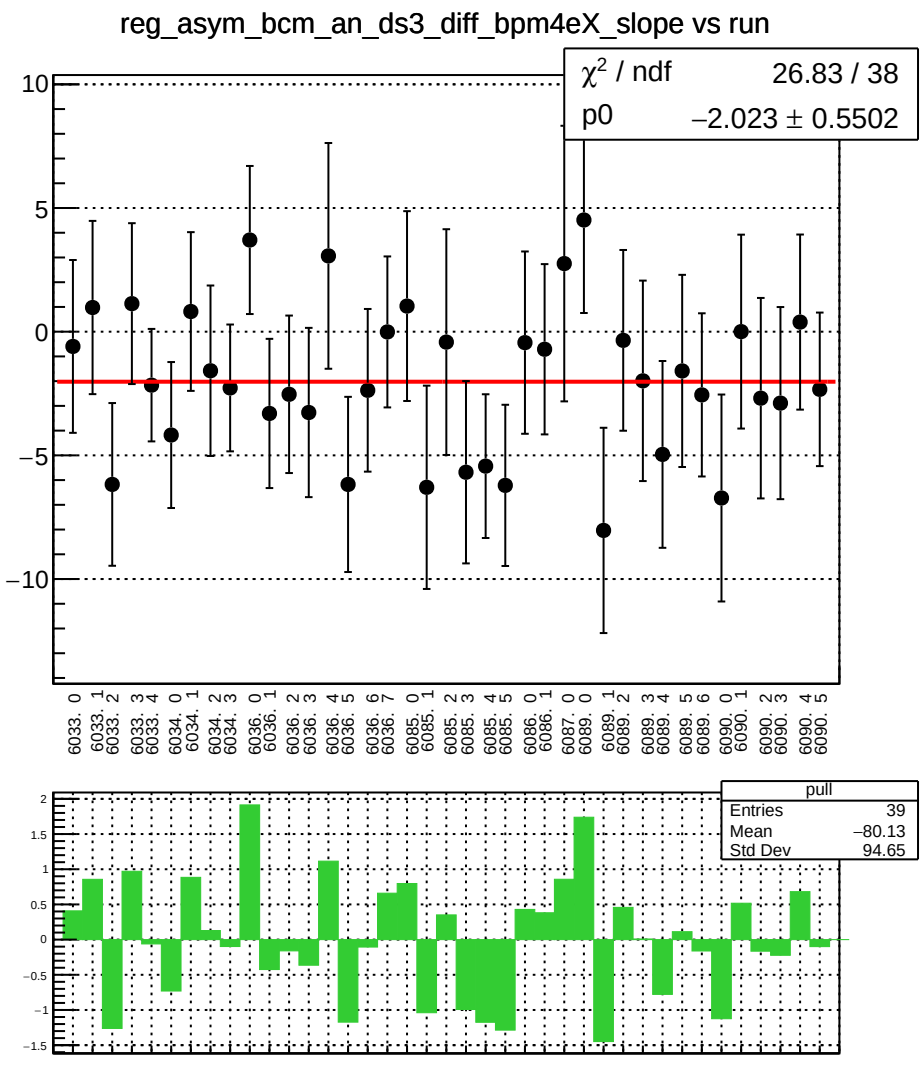

pull1D
Entries 39
Mean 0.01104
Std Dev 0.9615

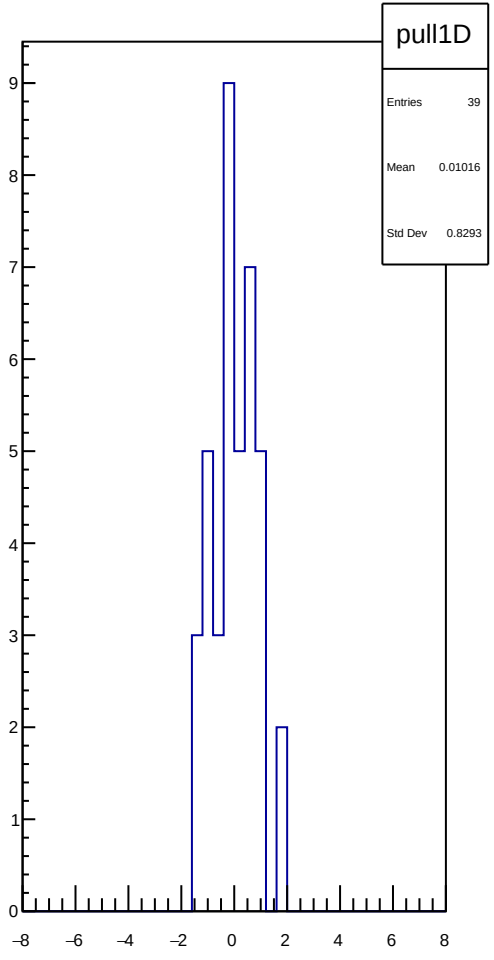

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.56 / 38
p0 17.1 ± 0.1488
pull
Entries 39
Mean 41.42
Std Dev 24.67

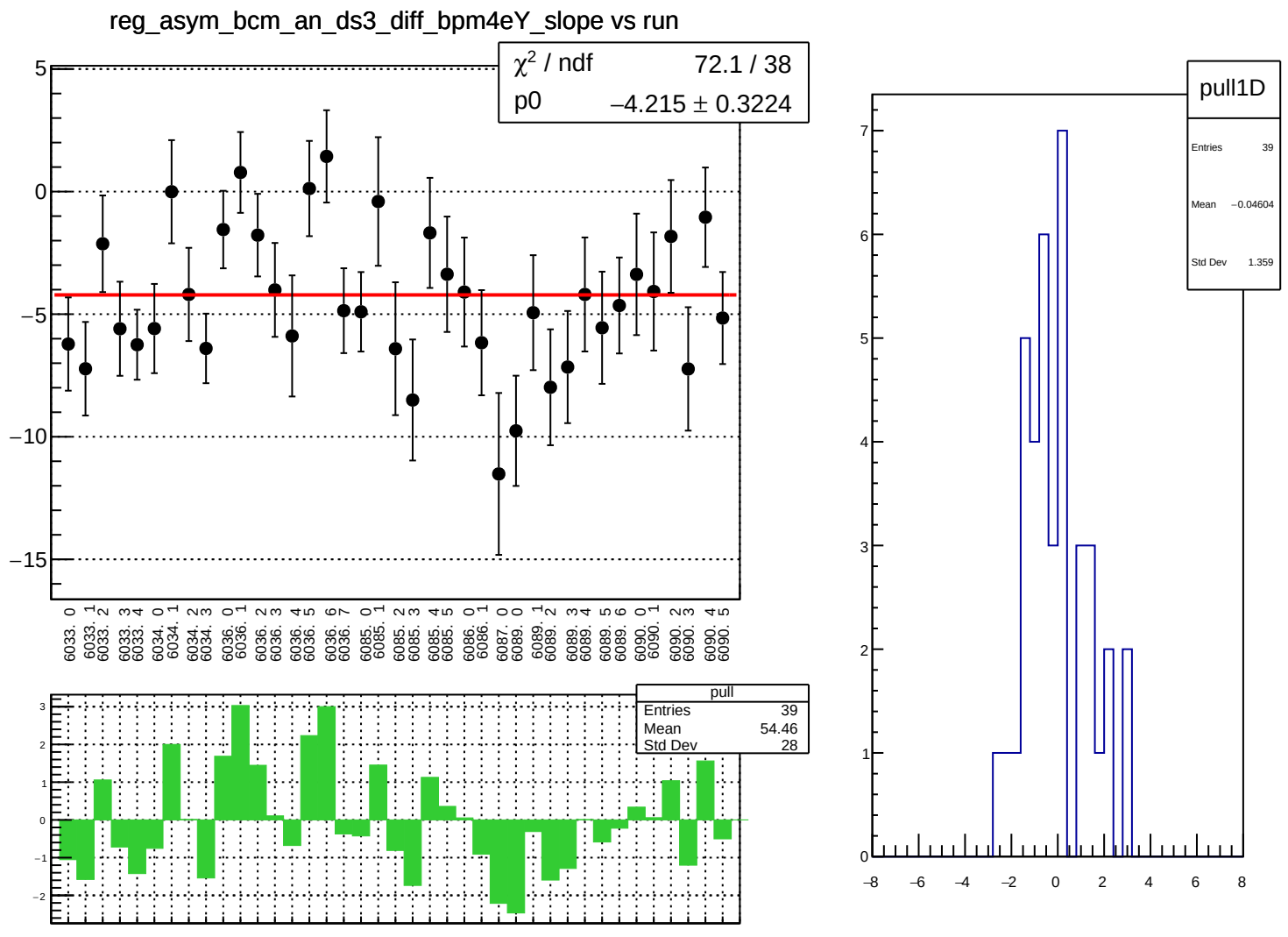

pull1D
Entries 39
Mean −0.009423
Std Dev 1.02

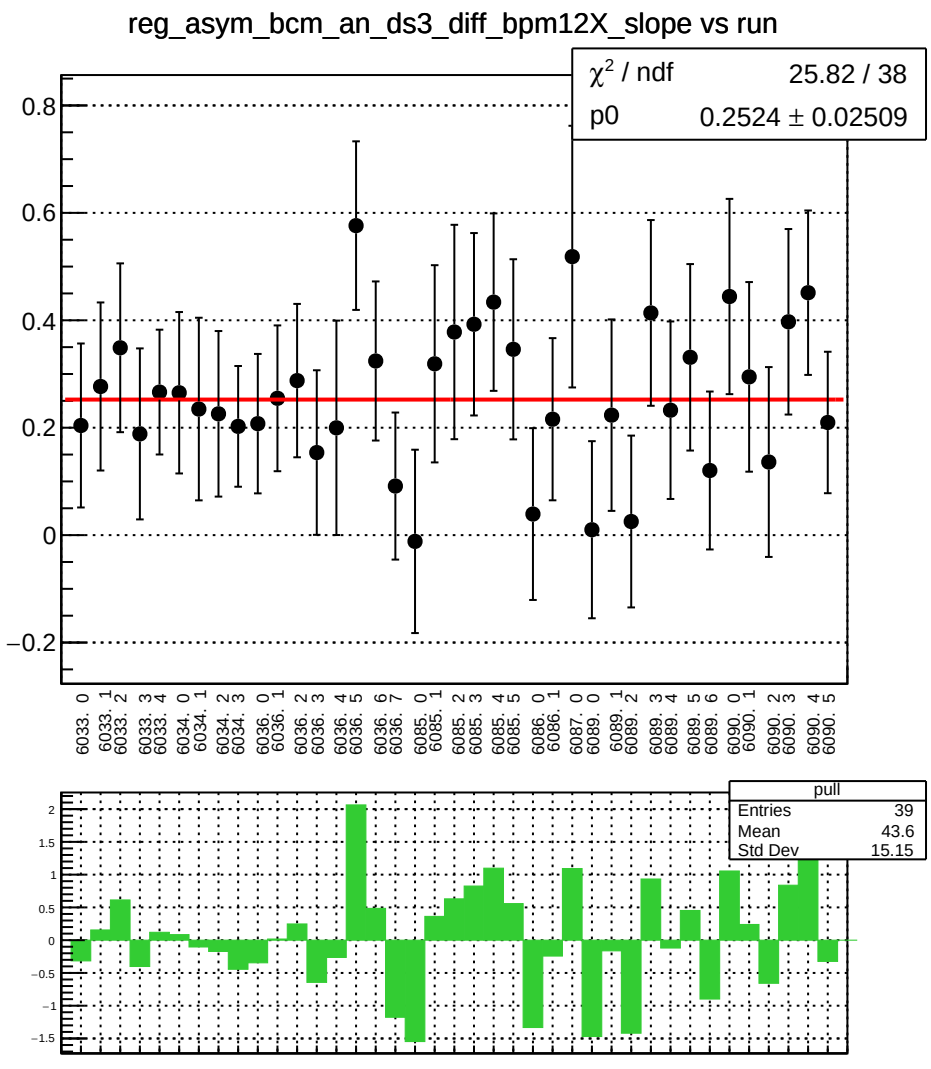

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 27.12 / 38
p0 1.907 ± 0.495
pull
Entries 39
Mean −24.56
Std Dev 37.23
pull1D
Entries 39
Mean −0.01599
Std Dev 0.8337

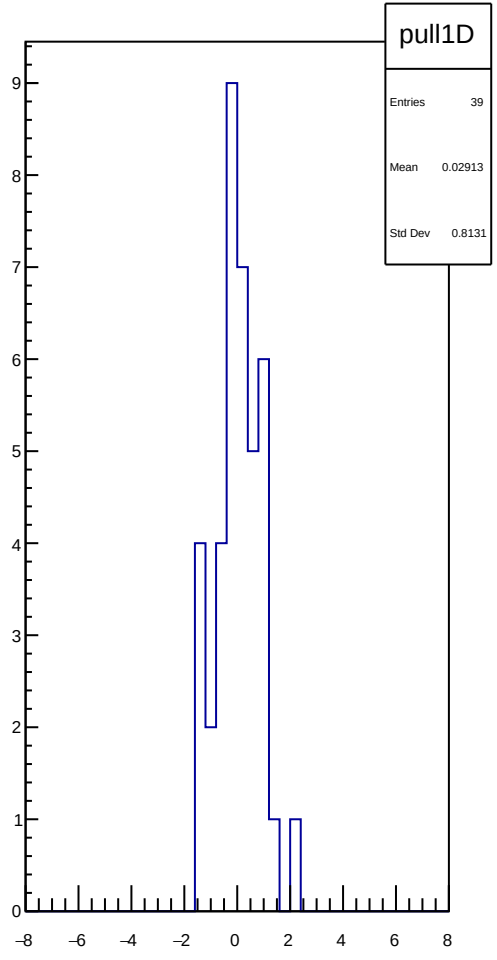

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 68.43 / 38
p0 3.242 ± 0.2993
pull
Entries 39
Mean 60.51
Std Dev 38.47
pull1D
Entries 39
Mean 0.09068
Std Dev 1.322

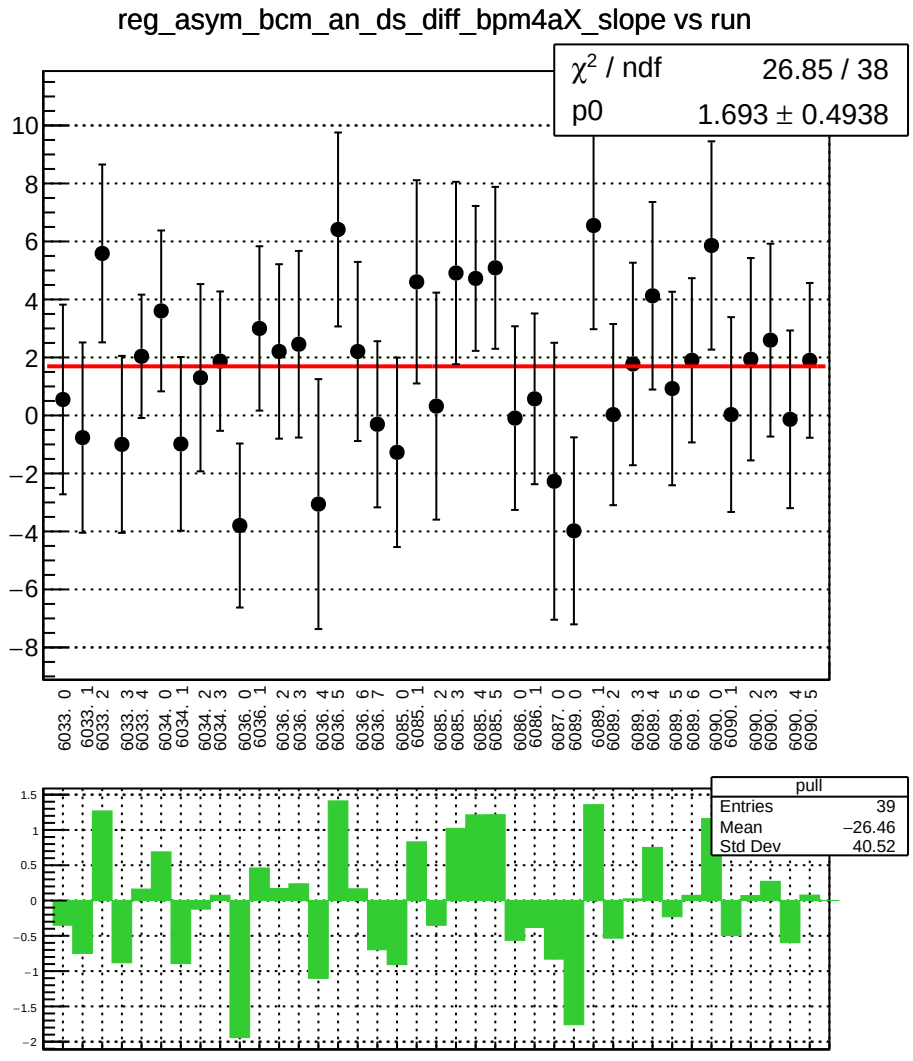

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 26.83 / 38
p0 −2.023 ± 0.5502
pull
Entries 39
Mean −80.13
Std Dev 94.65

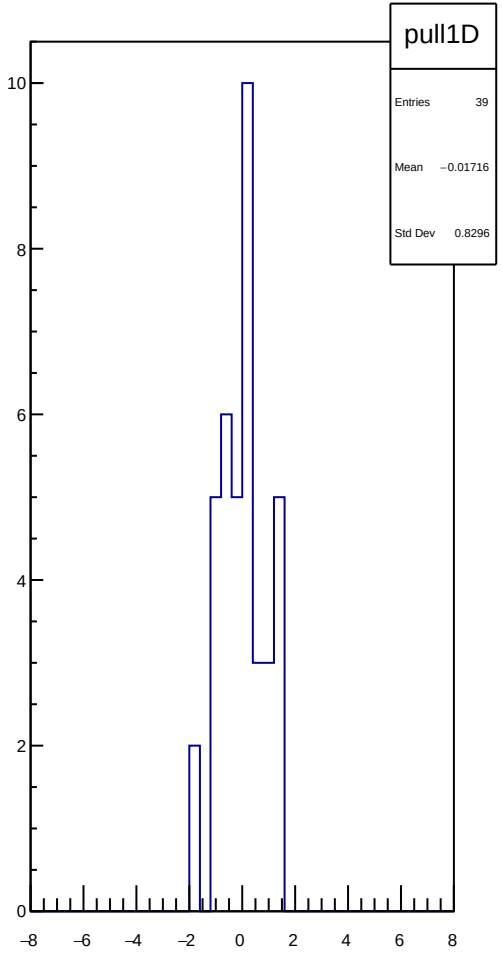

pull1D
Entries 39
Mean 0.01016
Std Dev 0.8293

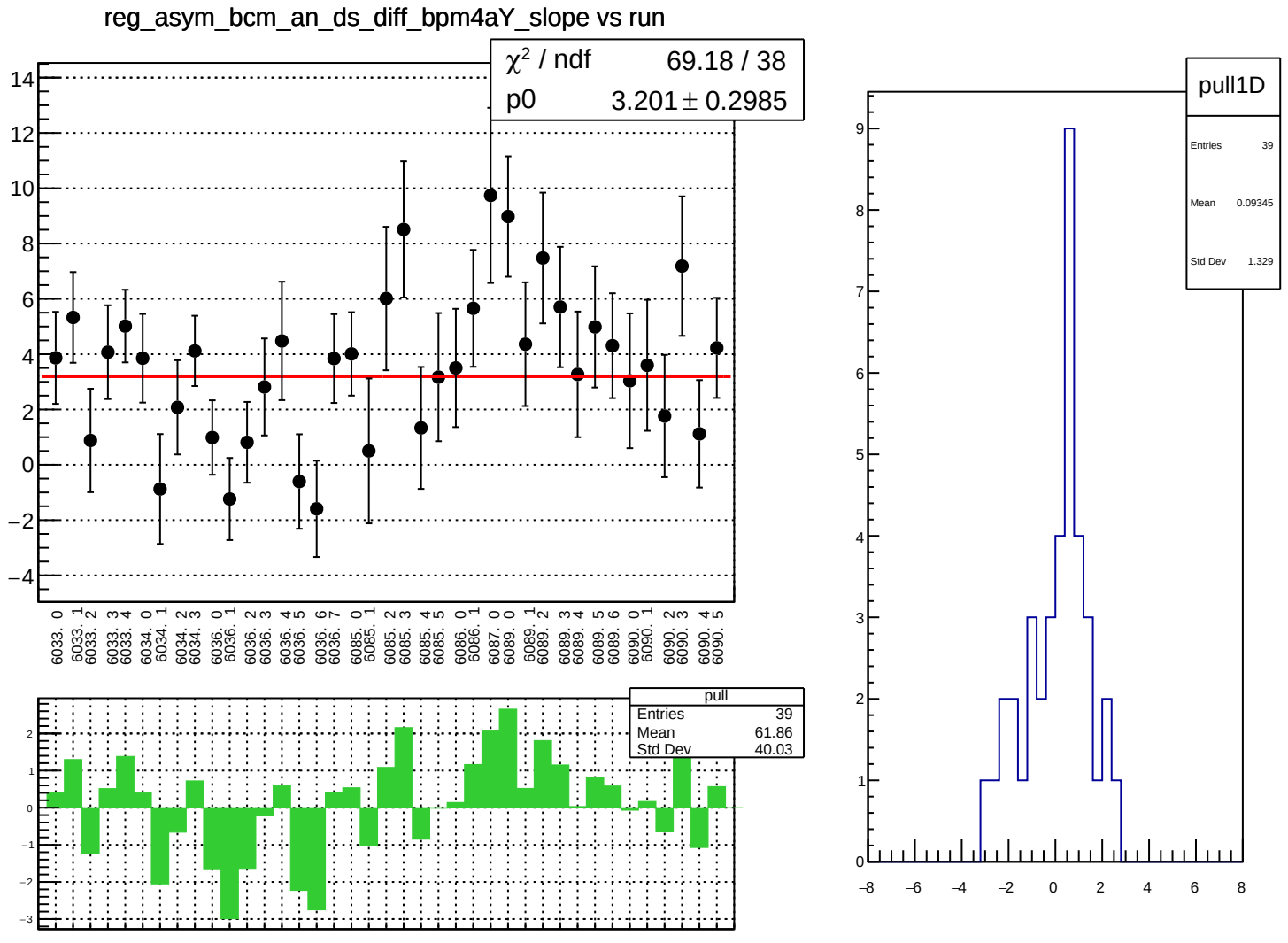

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 72.1 / 38
p0 −4.215 ± 0.3224
pull
Entries 39
Mean 54.46
Std Dev 28
pull1D
Entries 39
Mean −0.04604
Std Dev 1.359

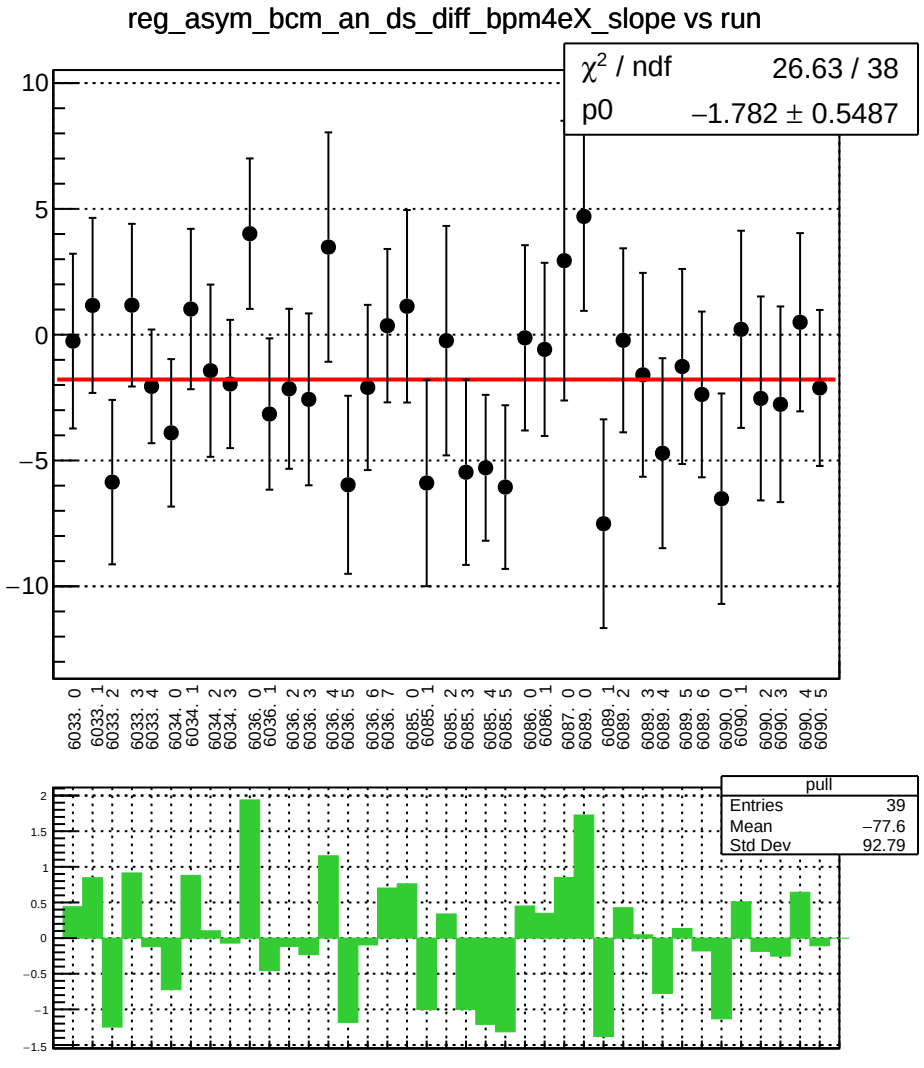

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 25.82 / 38
p0 0.2524 ± 0.02509
pull
Entries 39
Mean 43.6
Std Dev 15.15

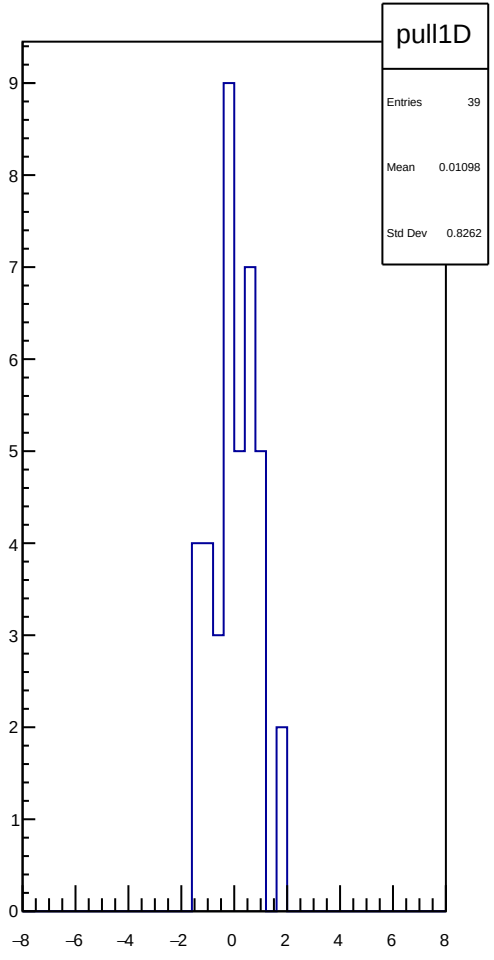

pull1D
Entries 39
Mean 0.02913
Std Dev 0.8131

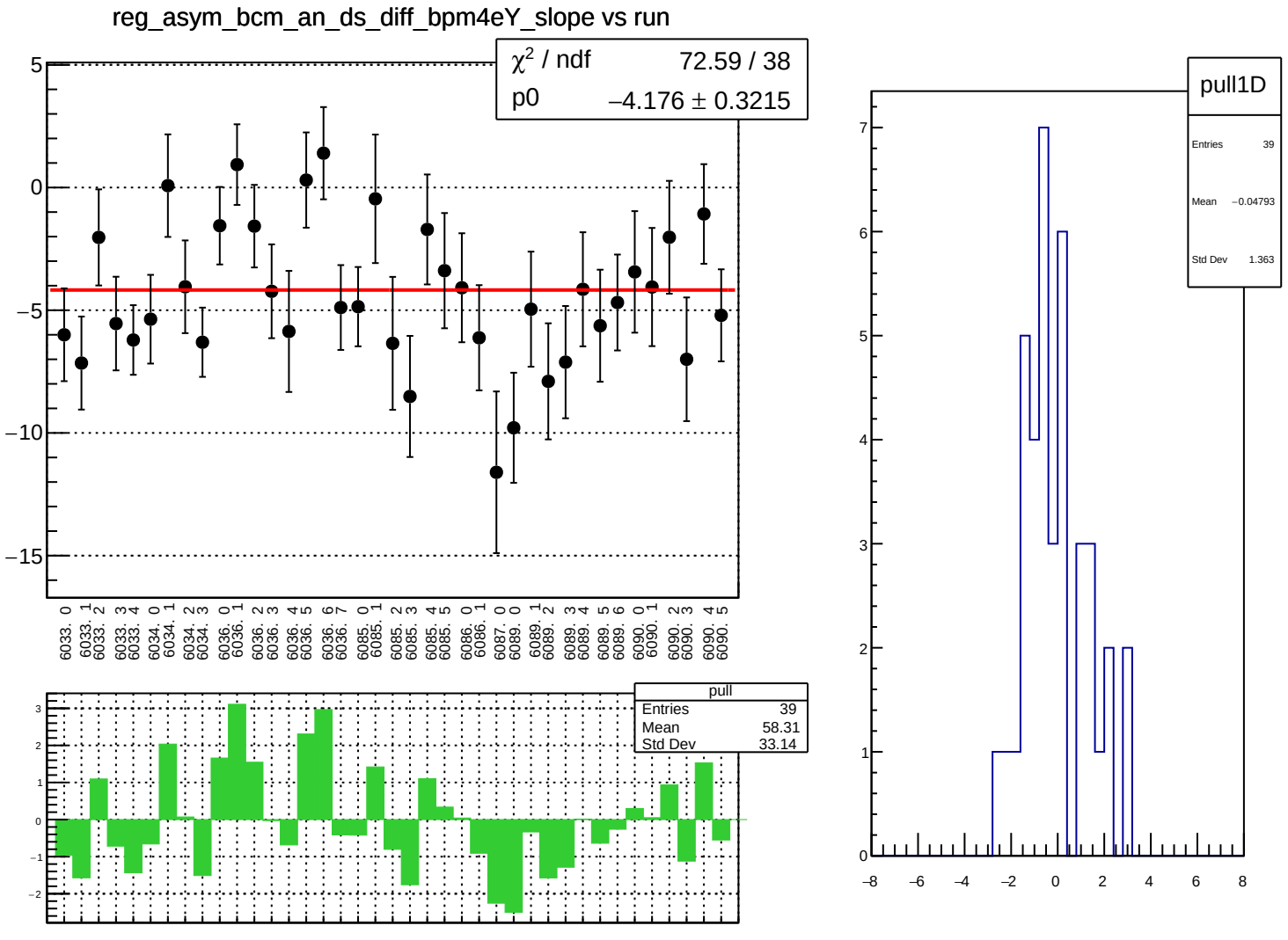

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 26.85 / 38
p0 1.693 ± 0.4938
pull
Entries 39
Mean −26.46
Std Dev 40.52

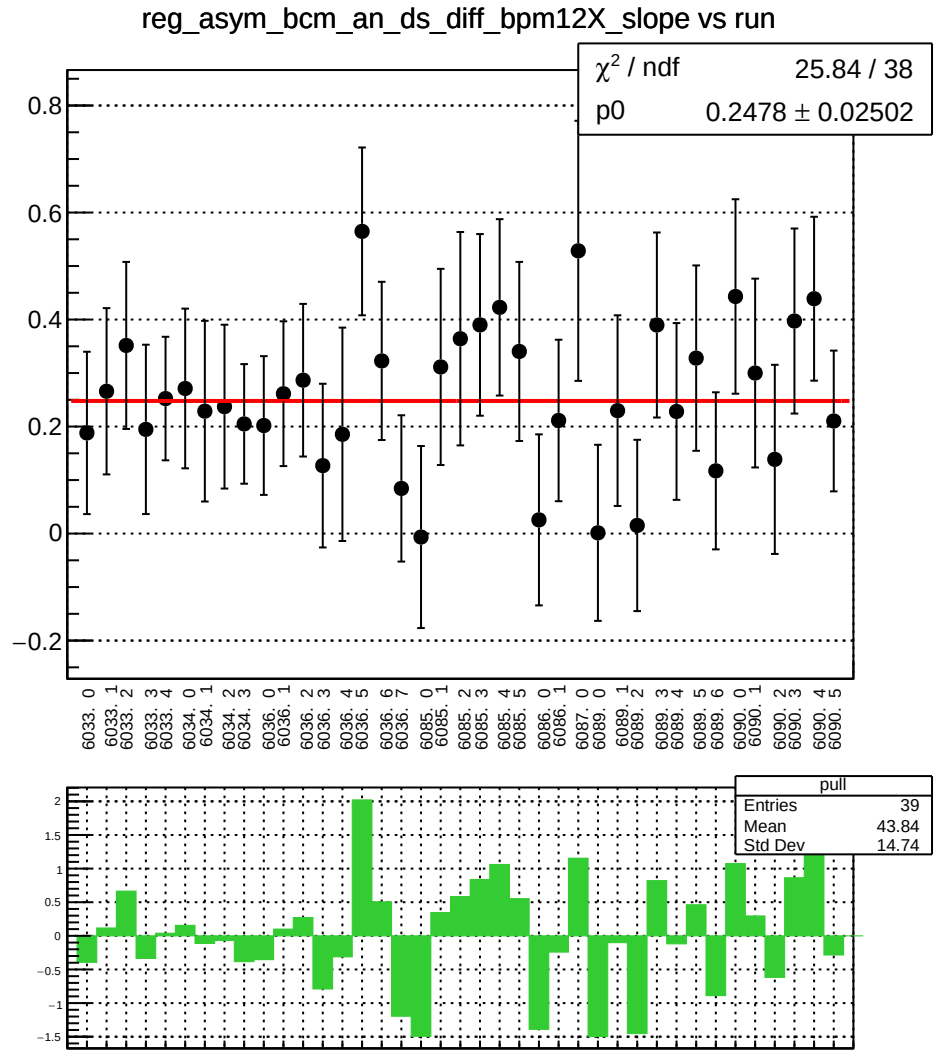

pull1D
Entries 39
Mean −0.01716
Std Dev 0.8296

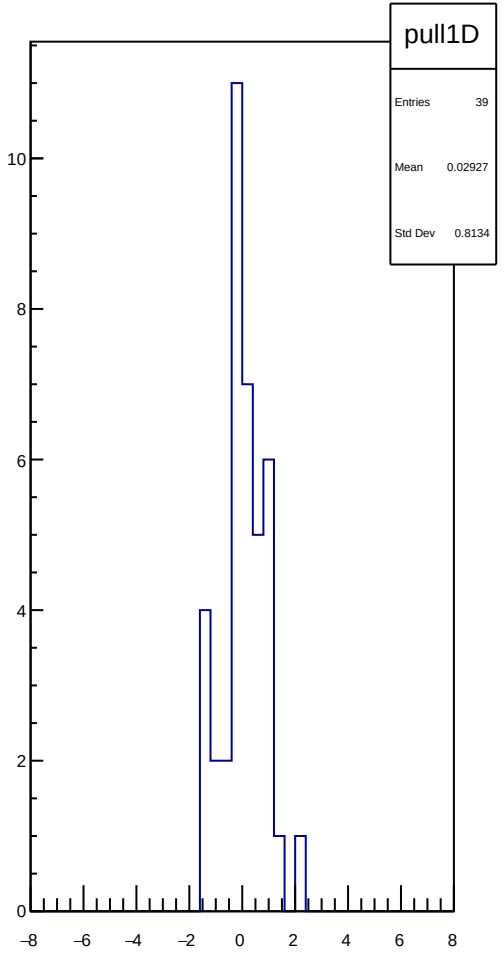

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 69.18 / 38
p0 3.201 ± 0.2985
pull
Entries 39
Mean 61.86
Std Dev 40.03
pull1D
Entries 39
Mean 0.09345
Std Dev 1.329

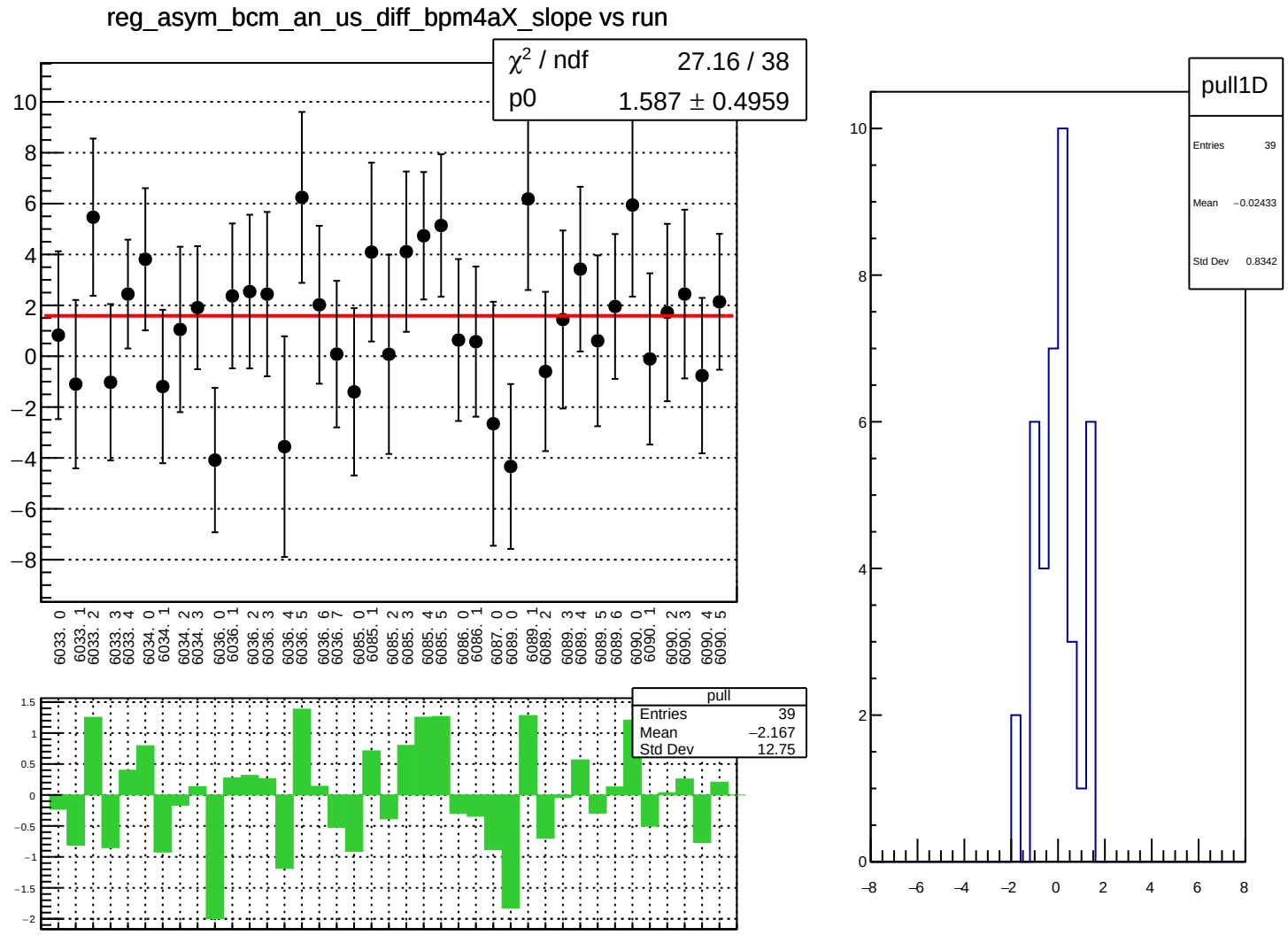

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 26.63 / 38
p0 −1.782 ± 0.5487
10
5
0
−5
−10
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −77.6
Std Dev 92.79
2
1.5
1
0.5
0
−0.5
−1
−1.5

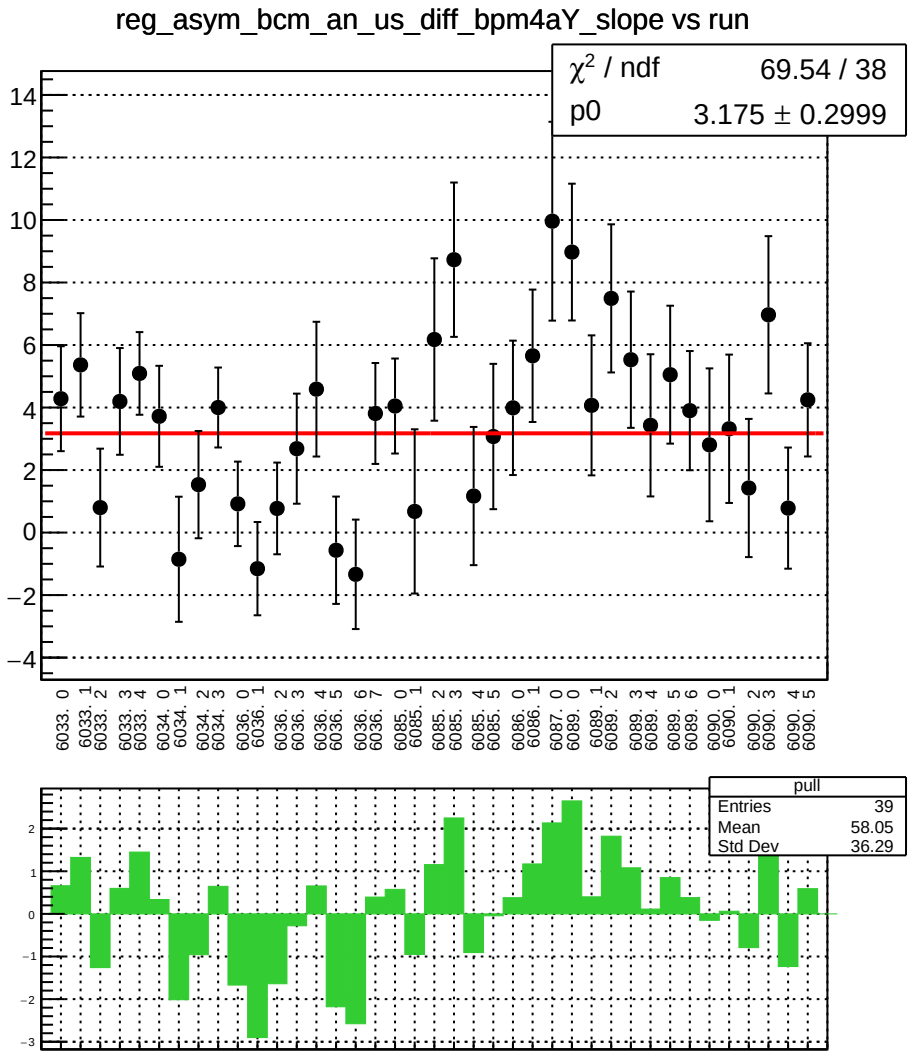

pull1D
Entries 39
Mean 0.01098
Std Dev 0.8262
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

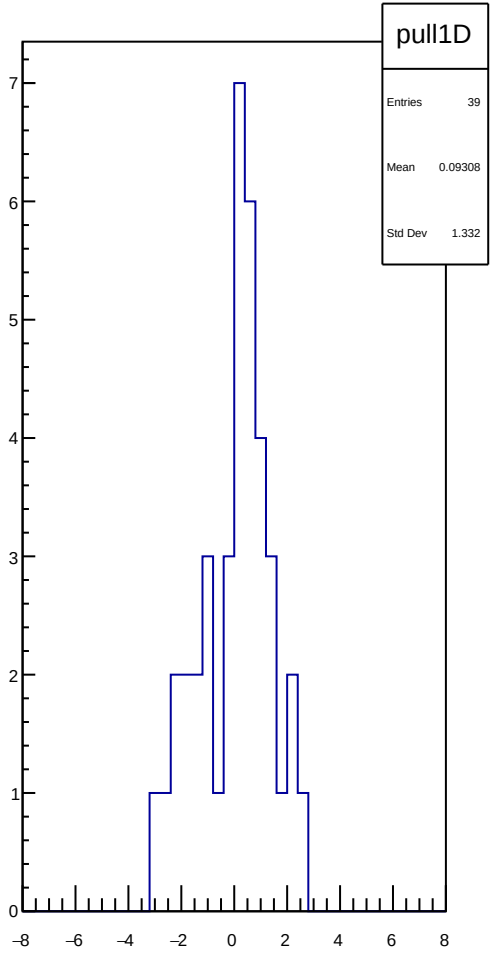

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 72.59 / 38
p0 −4.176 ± 0.3215
5
0
−5
−10
−15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 58.31
Std Dev 33.14
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.04793
Std Dev 1.363
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

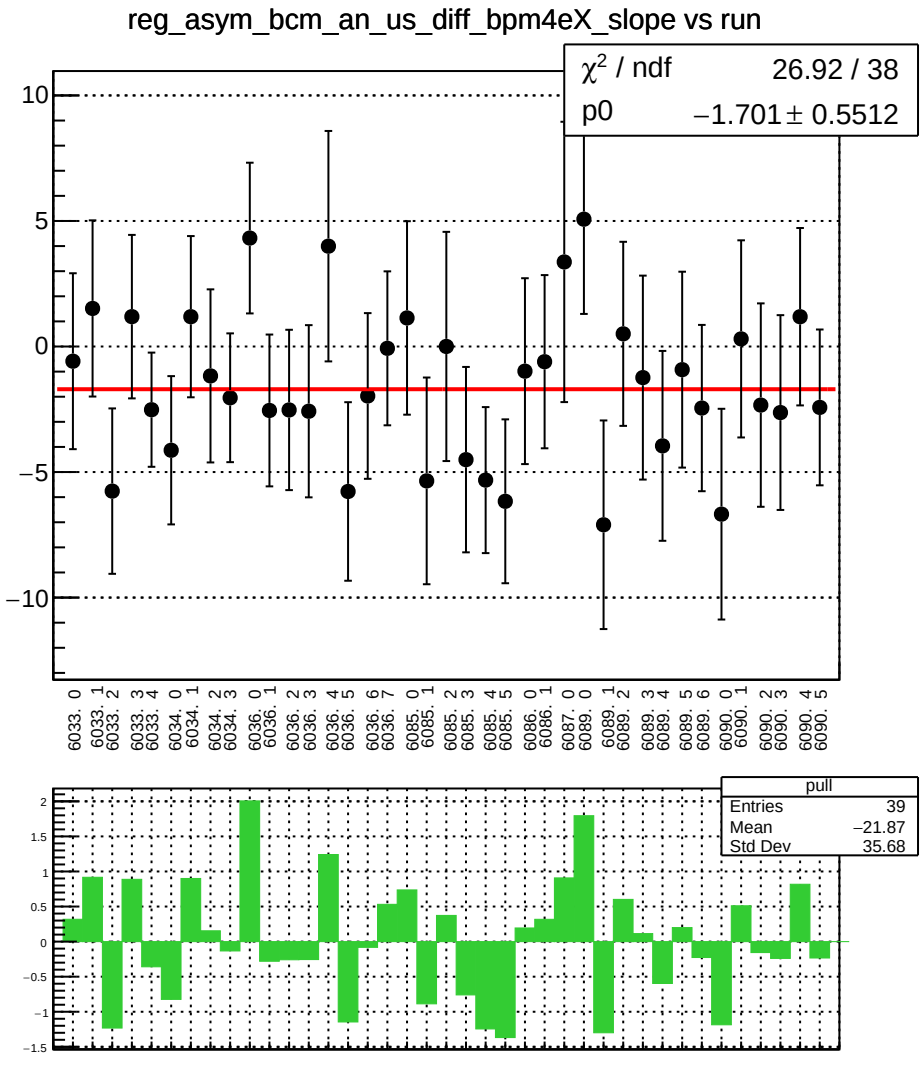

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 25.84 / 38
p0 0.2478 ± 0.02502
pull
Entries 39
Mean 43.84
Std Dev 14.74

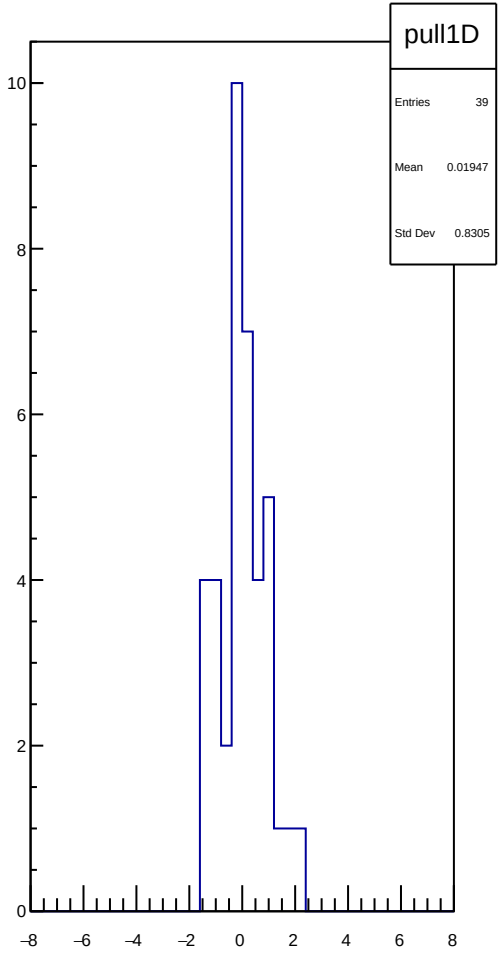

pull1D
Entries 39
Mean 0.02927
Std Dev 0.8134

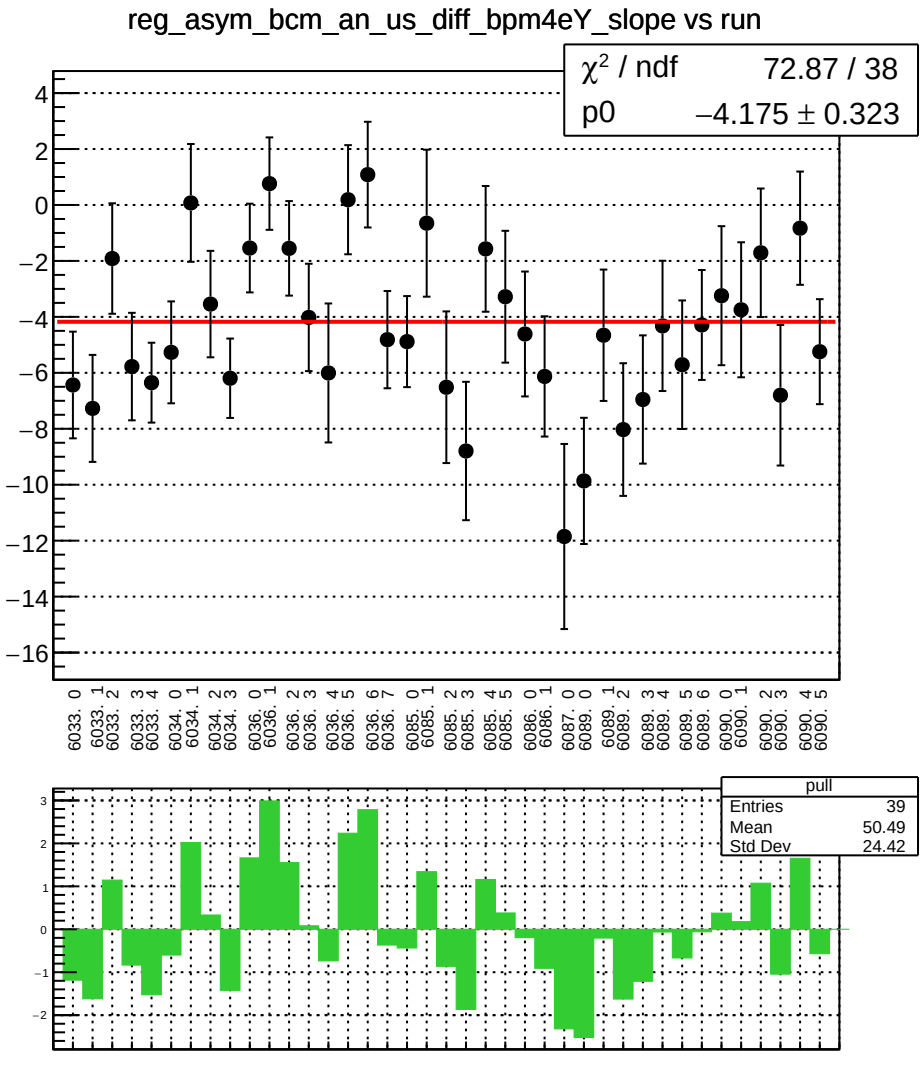

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 27.16 / 38
p0 1.587 ± 0.4959
pull
Entries 39
Mean −2.167
Std Dev 12.75
pull1D
Entries 39
Mean −0.02433
Std Dev 0.8342

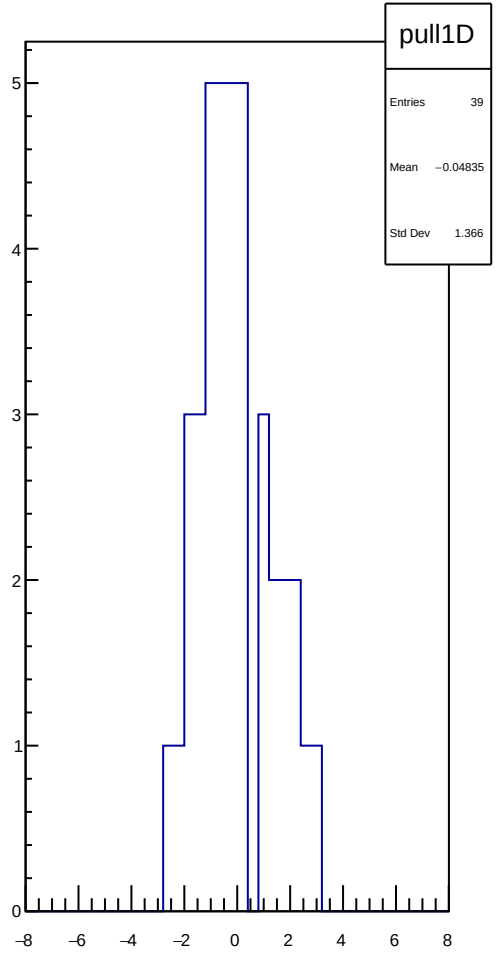

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 69.54 / 38
p0 3.175 ± 0.2999
pull
Entries 39
Mean 58.05
Std Dev 36.29

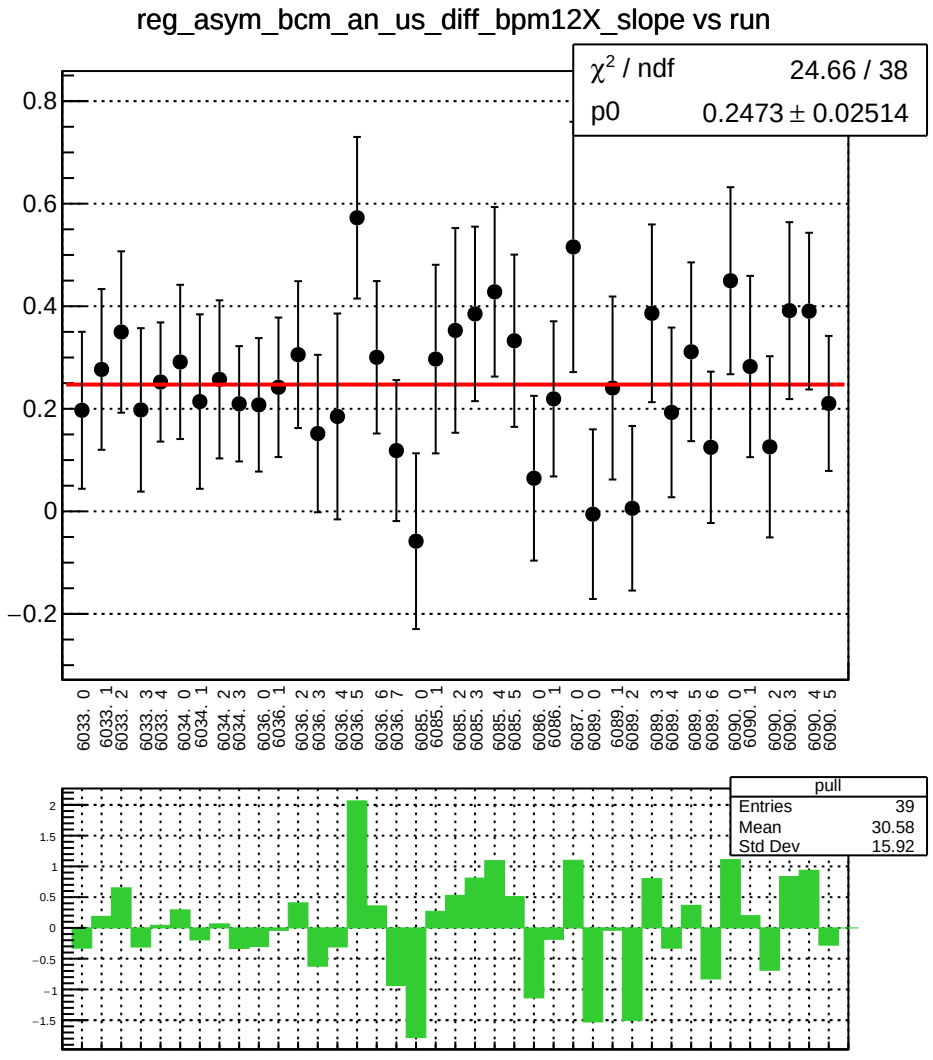

pull1D
Entries 39
Mean 0.09308
Std Dev 1.332

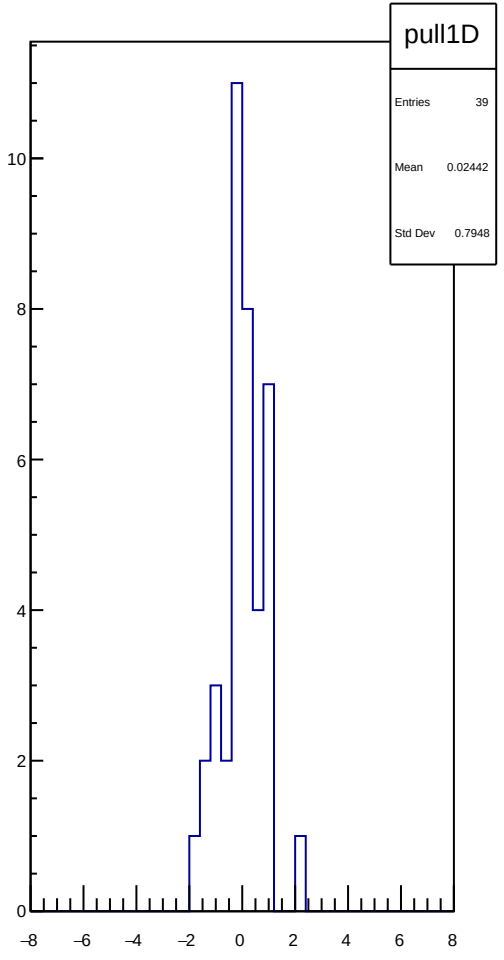

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 26.92 / 38
p0 −1.701 ± 0.5512
pull
Entries 39
Mean −21.87
Std Dev 35.68

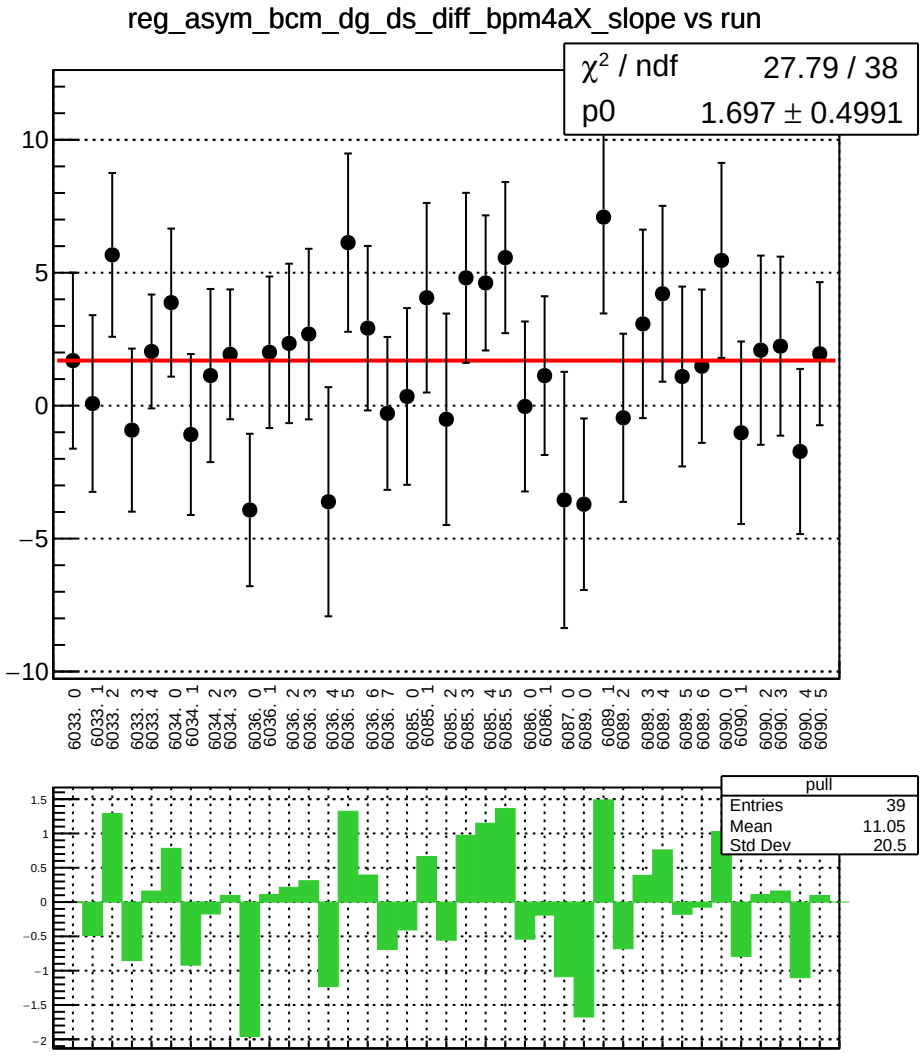

pull1D
Entries 39
Mean 0.01947
Std Dev 0.8305

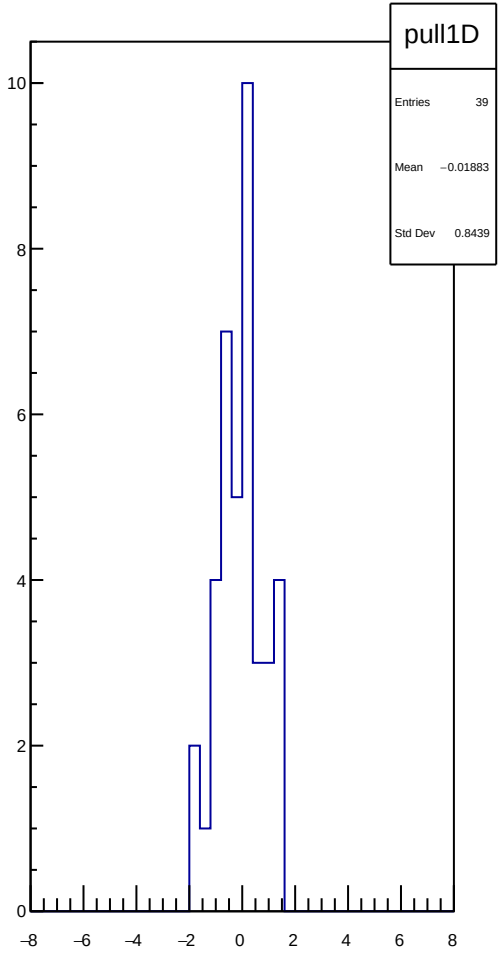

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 72.87 / 38
p0 −4.175 ± 0.323
pull
Entries 39
Mean 50.49
Std Dev 24.42

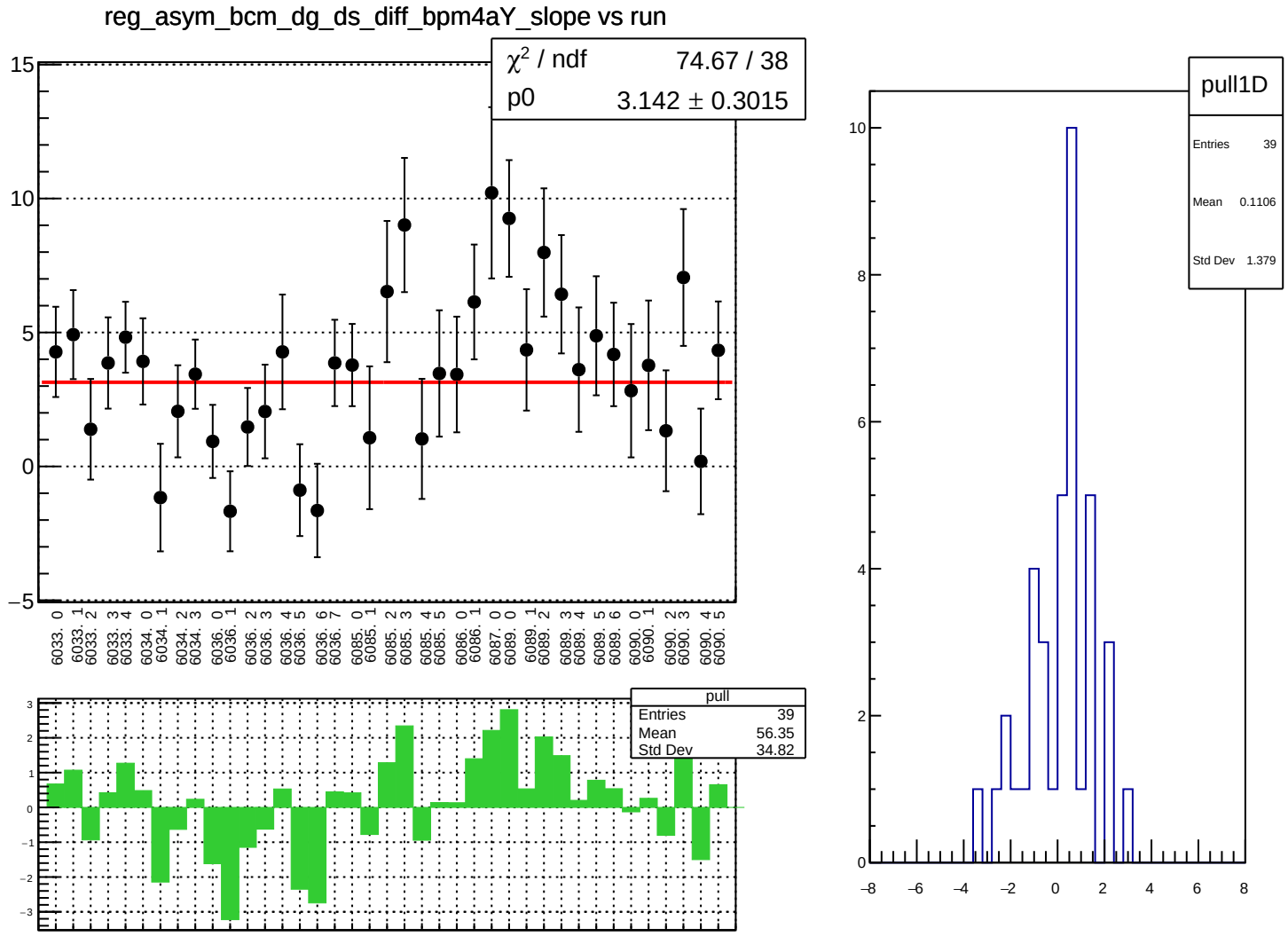

pull1D
Entries 39
Mean −0.04835
Std Dev 1.366

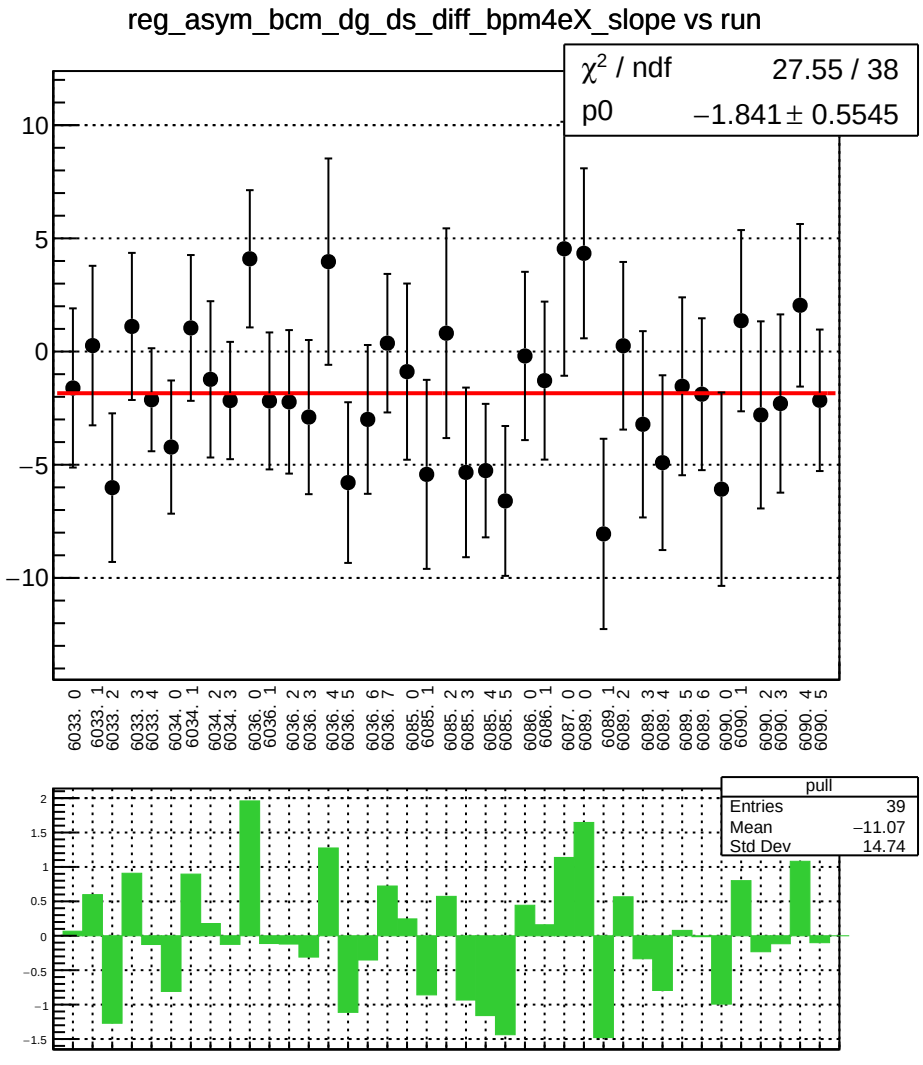

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 24.66 / 38
p0 0.2473 ± 0.02514
pull
Entries 39
Mean 30.58
Std Dev 15.92

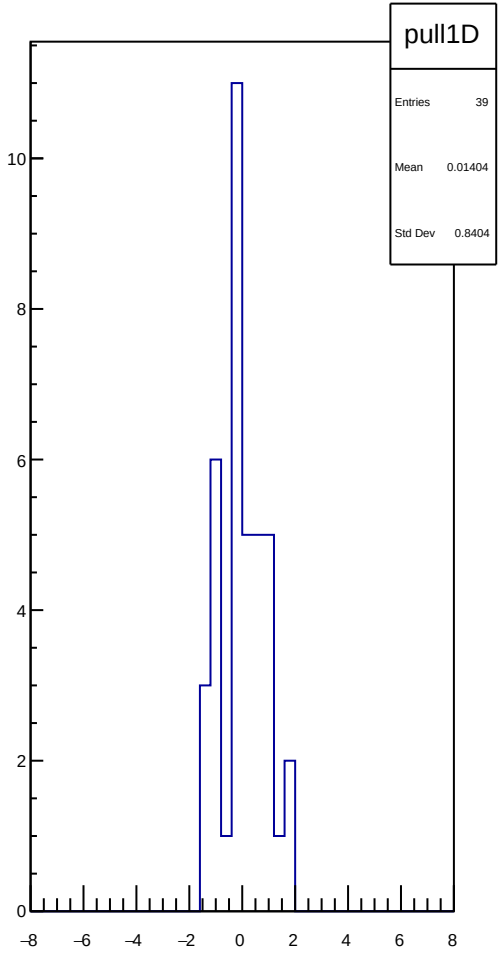

pull1D
Entries 39
Mean 0.02442
Std Dev 0.7948

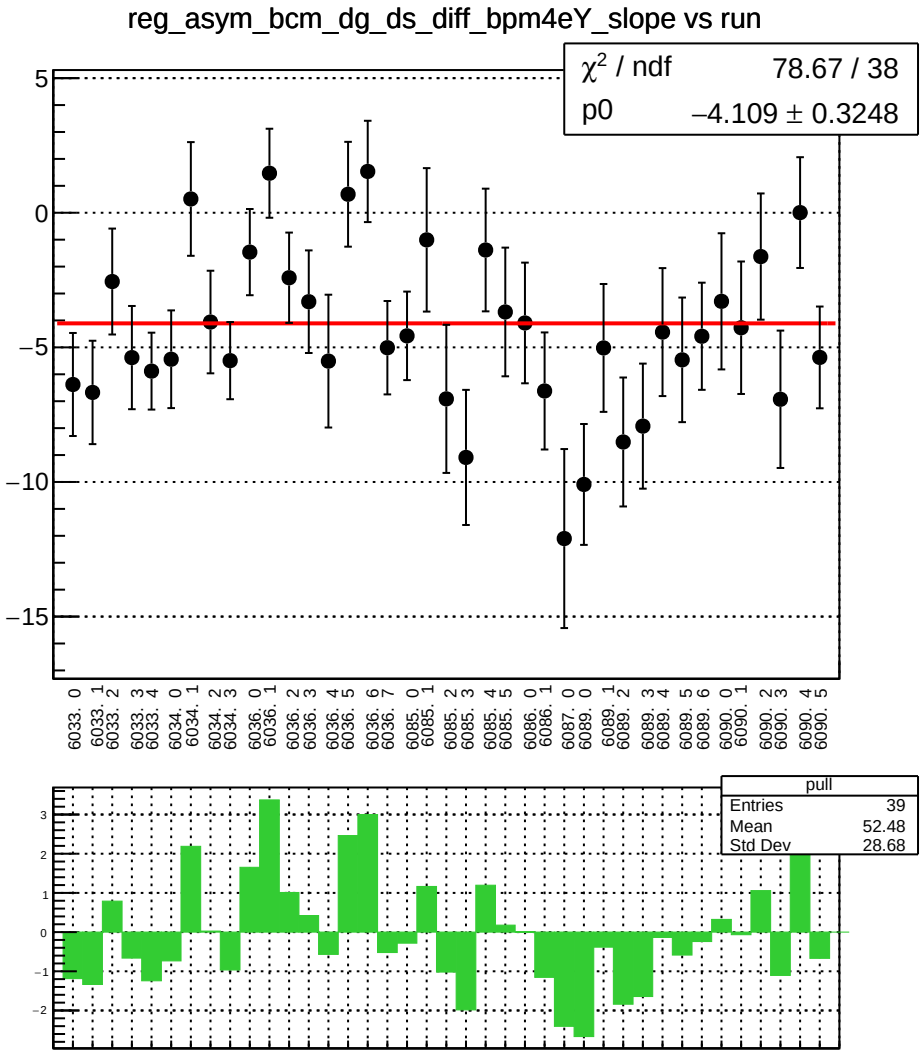

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 27.79 / 38
p0 1.697 ± 0.4991
pull
Entries 39
Mean 11.05
Std Dev 20.5

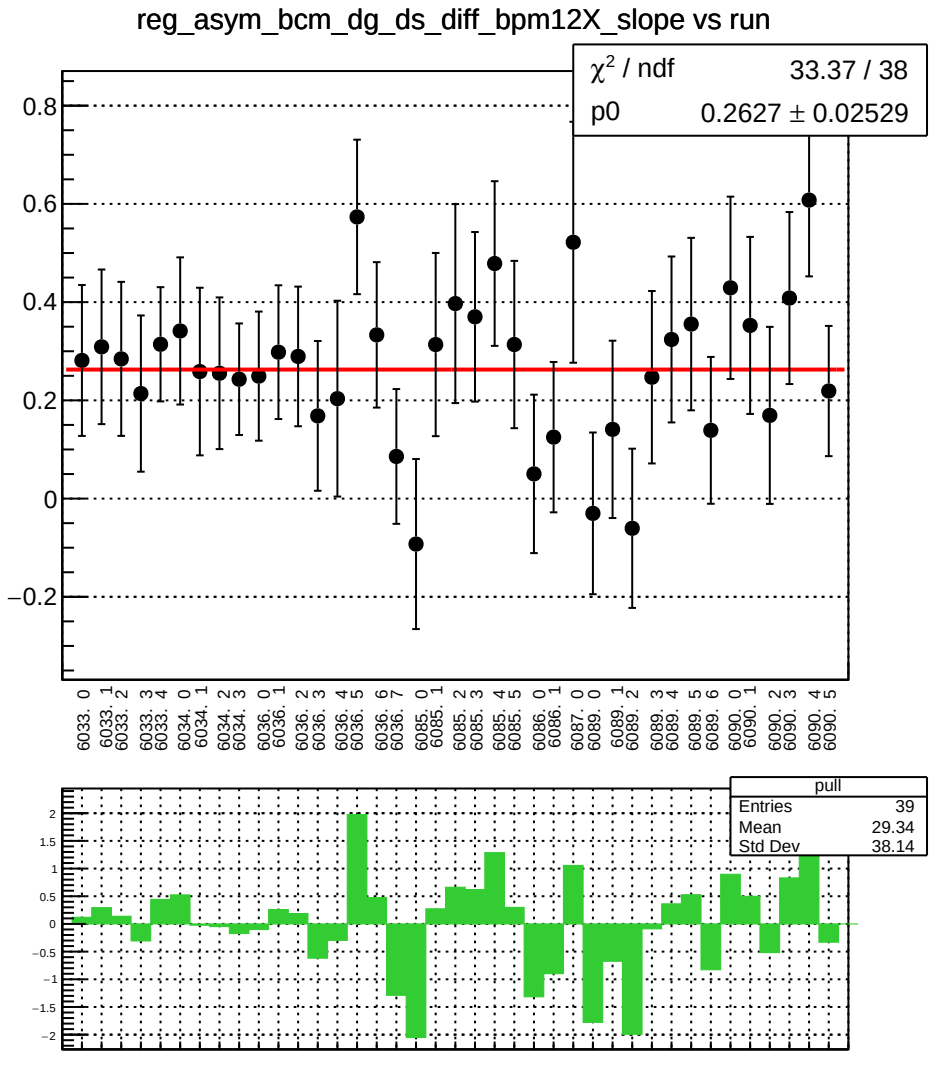

pull1D
Entries 39
Mean −0.01883
Std Dev 0.8439

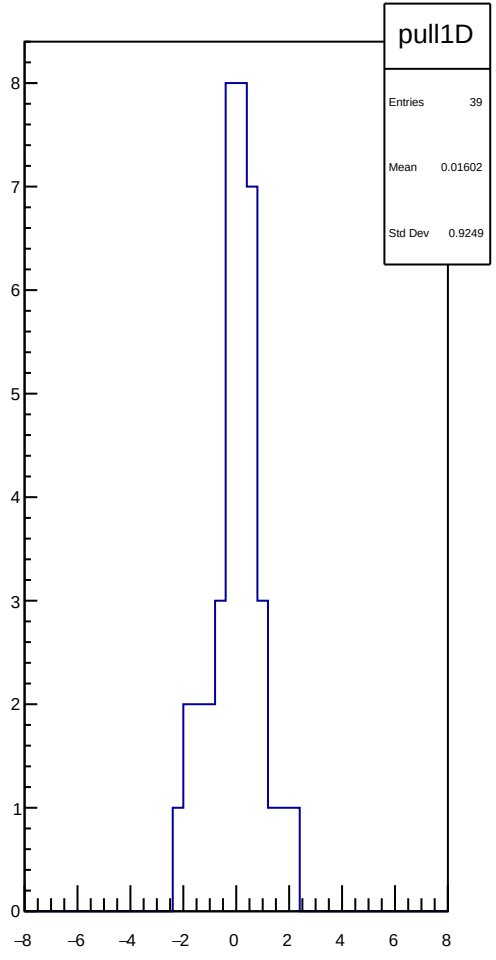

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 74.67 / 38
p0 3.142 ± 0.3015
pull
Entries 39
Mean 56.35
Std Dev 34.82
pull1D
Entries 39
Mean 0.1106
Std Dev 1.379

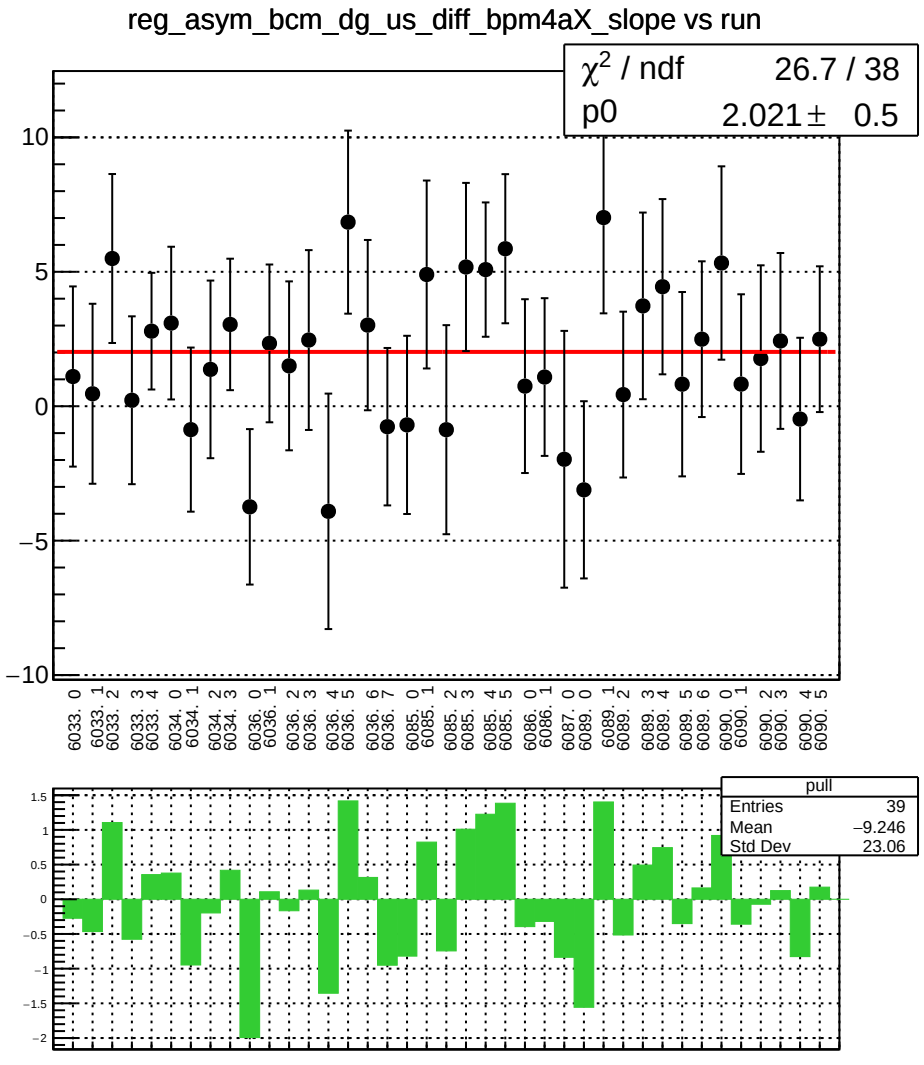

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 27.55 / 38
p0 −1.841 ± 0.5545
pull
Entries 39
Mean −11.07
Std Dev 14.74

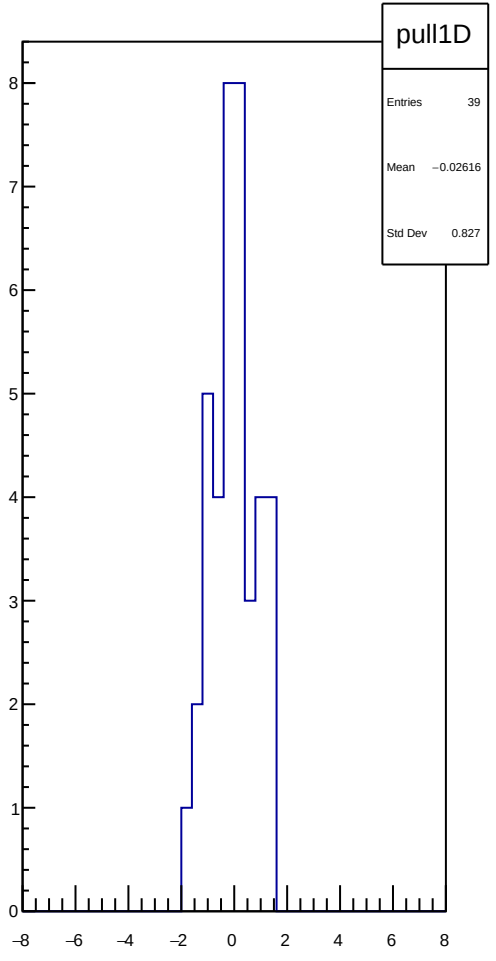

pull1D
Entries 39
Mean 0.01404
Std Dev 0.8404

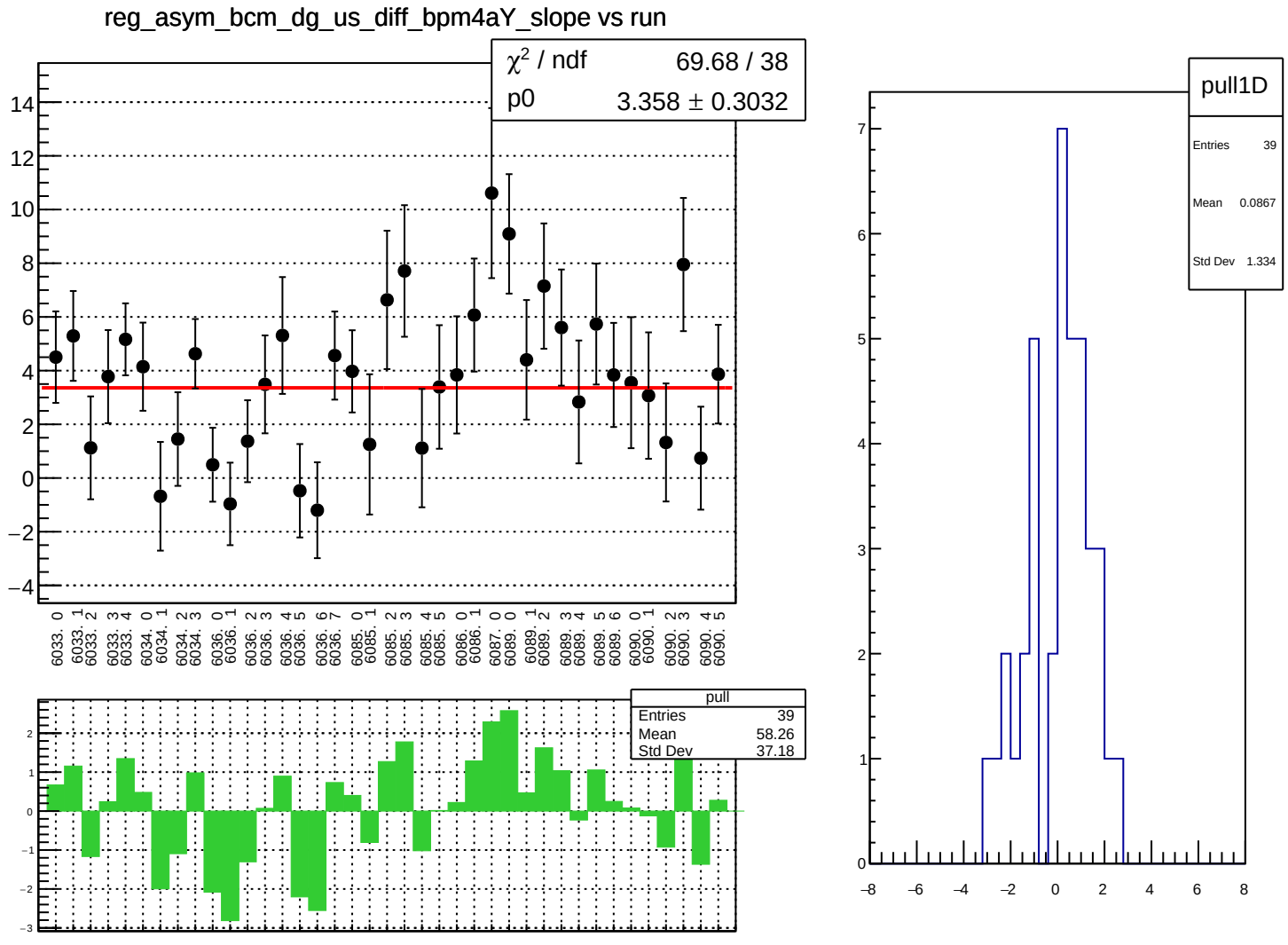

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 78.67 / 38
p0 −4.109 ± 0.3248
pull
Entries 39
Mean 52.48
Std Dev 28.68
pull1D
Entries 39
Mean −0.06527
Std Dev 1.419

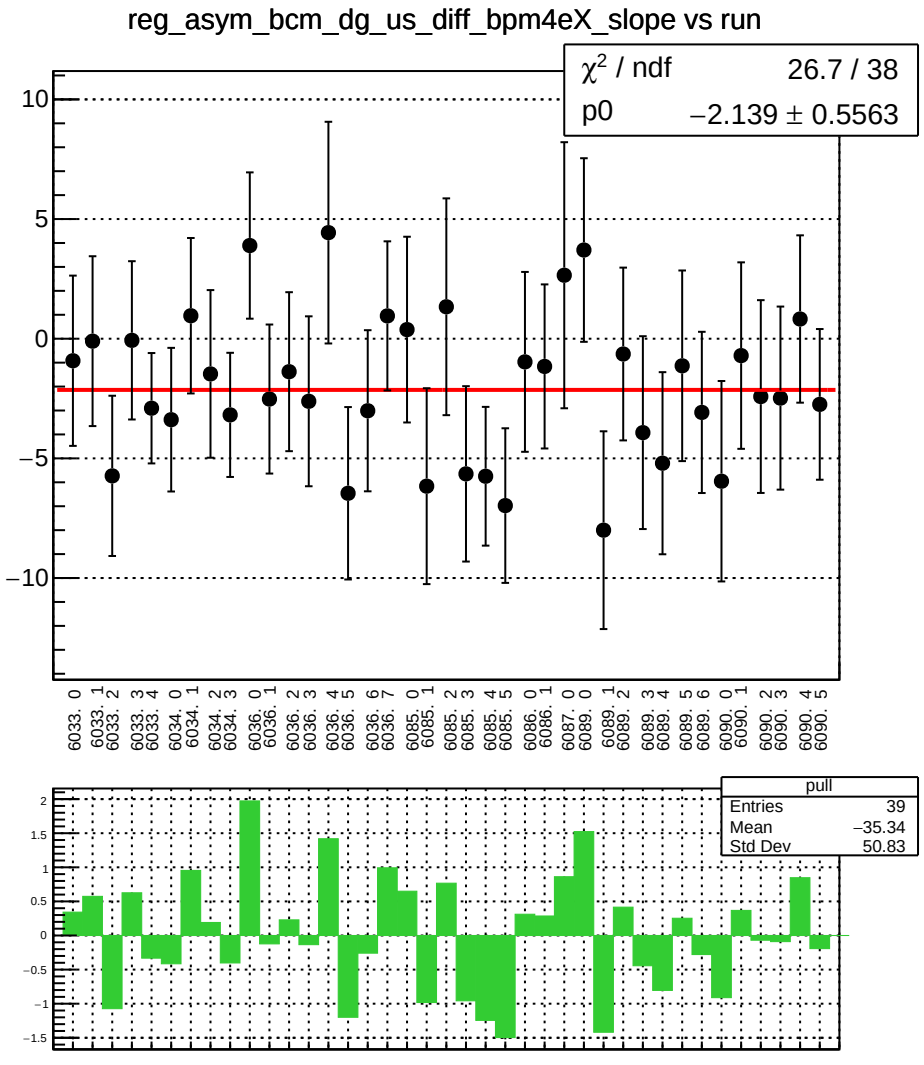

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 33.37 / 38
p0 0.2627 ± 0.02529
pull
Entries 39
Mean 29.34
Std Dev 38.14

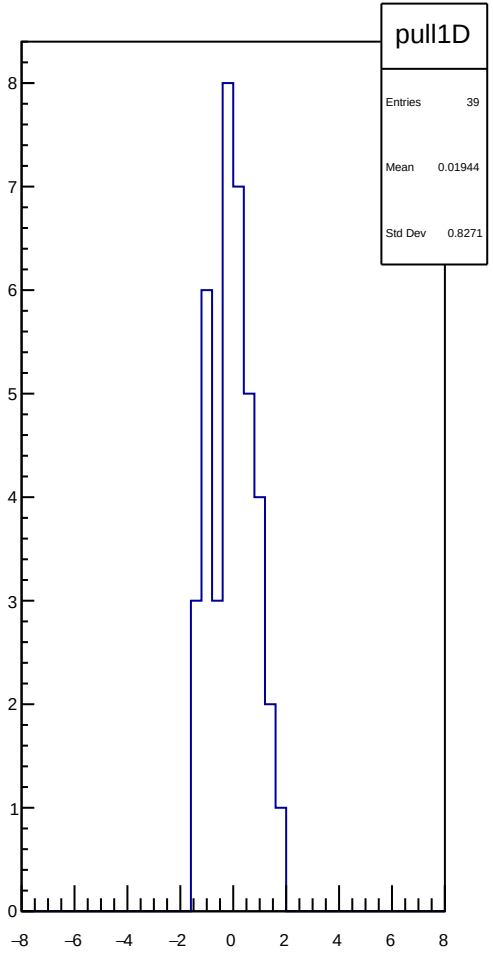

pull1D
Entries 39
Mean 0.01602
Std Dev 0.9249

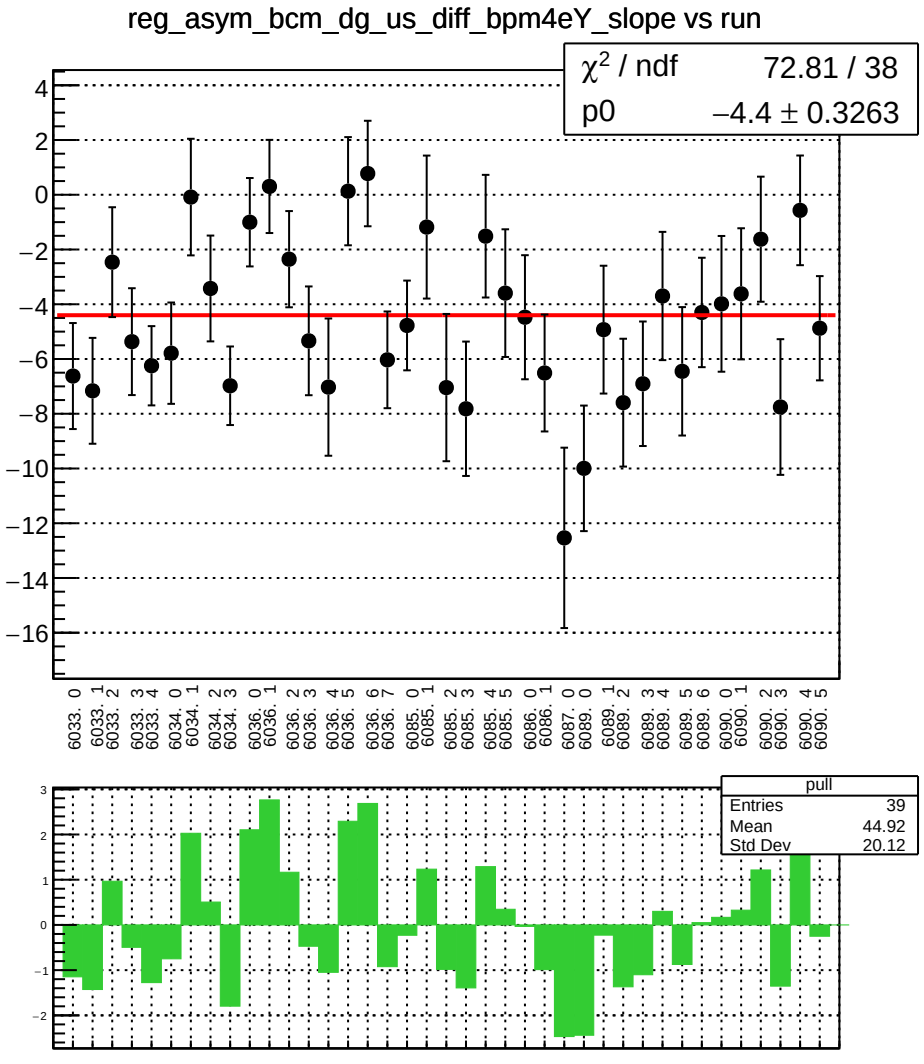

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 26.7 / 38
p0 2.021 ± 0.5
pull
Entries 39
Mean −9.246
Std Dev 23.06

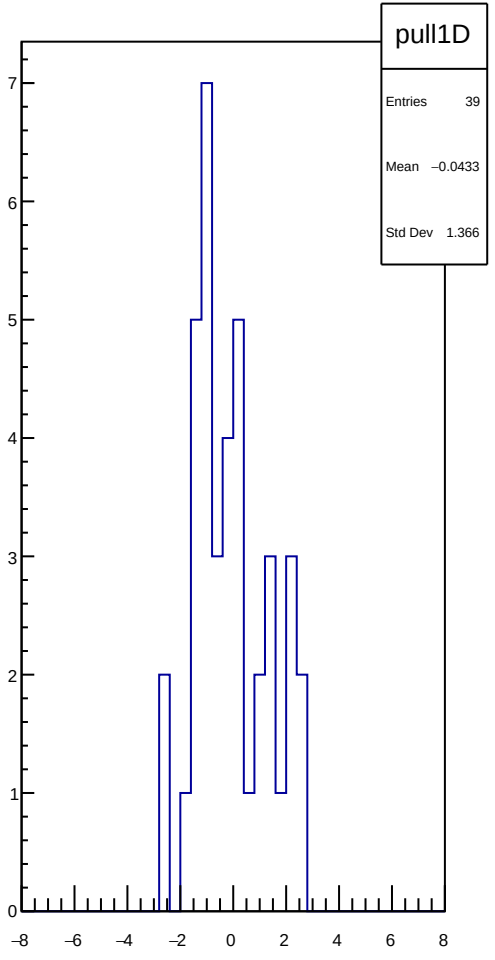

pull1D
Entries 39
Mean −0.02616
Std Dev 0.827

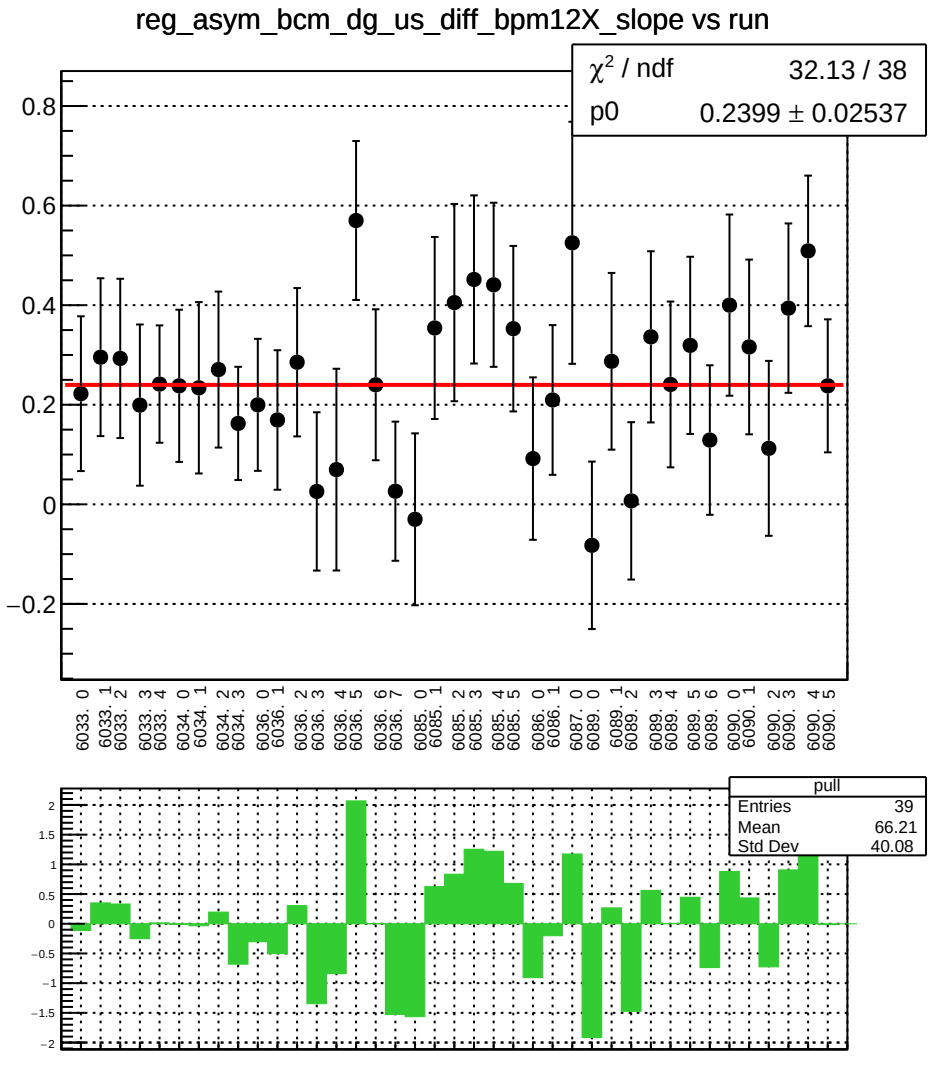

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 69.68 / 38
p0 3.358 ± 0.3032
pull
Entries 39
Mean 58.26
Std Dev 37.18
pull1D
Entries 39
Mean 0.0867
Std Dev 1.334

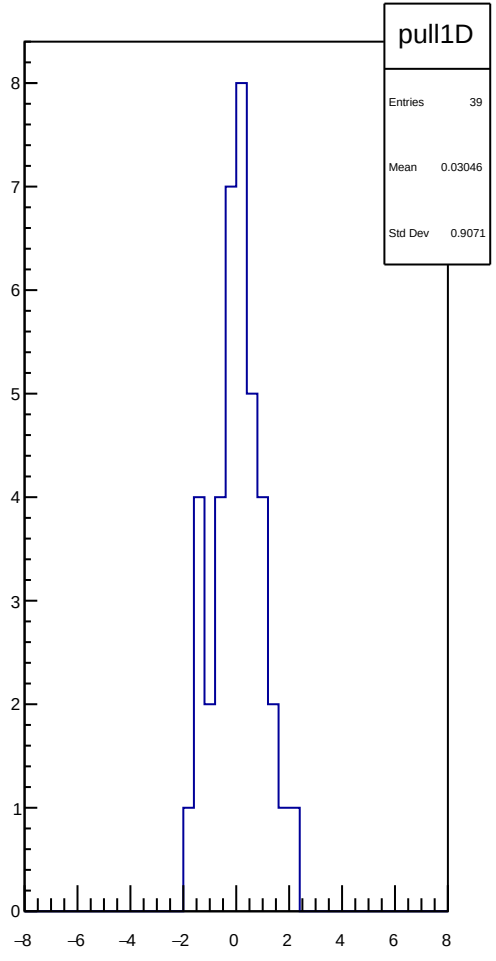

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 26.7 / 38
p0 −2.139 ± 0.5563
10
5
0
−5
−10
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −35.34
Std Dev 50.83
2
1.5
1
0.5
0
−0.5
−1
−1.5

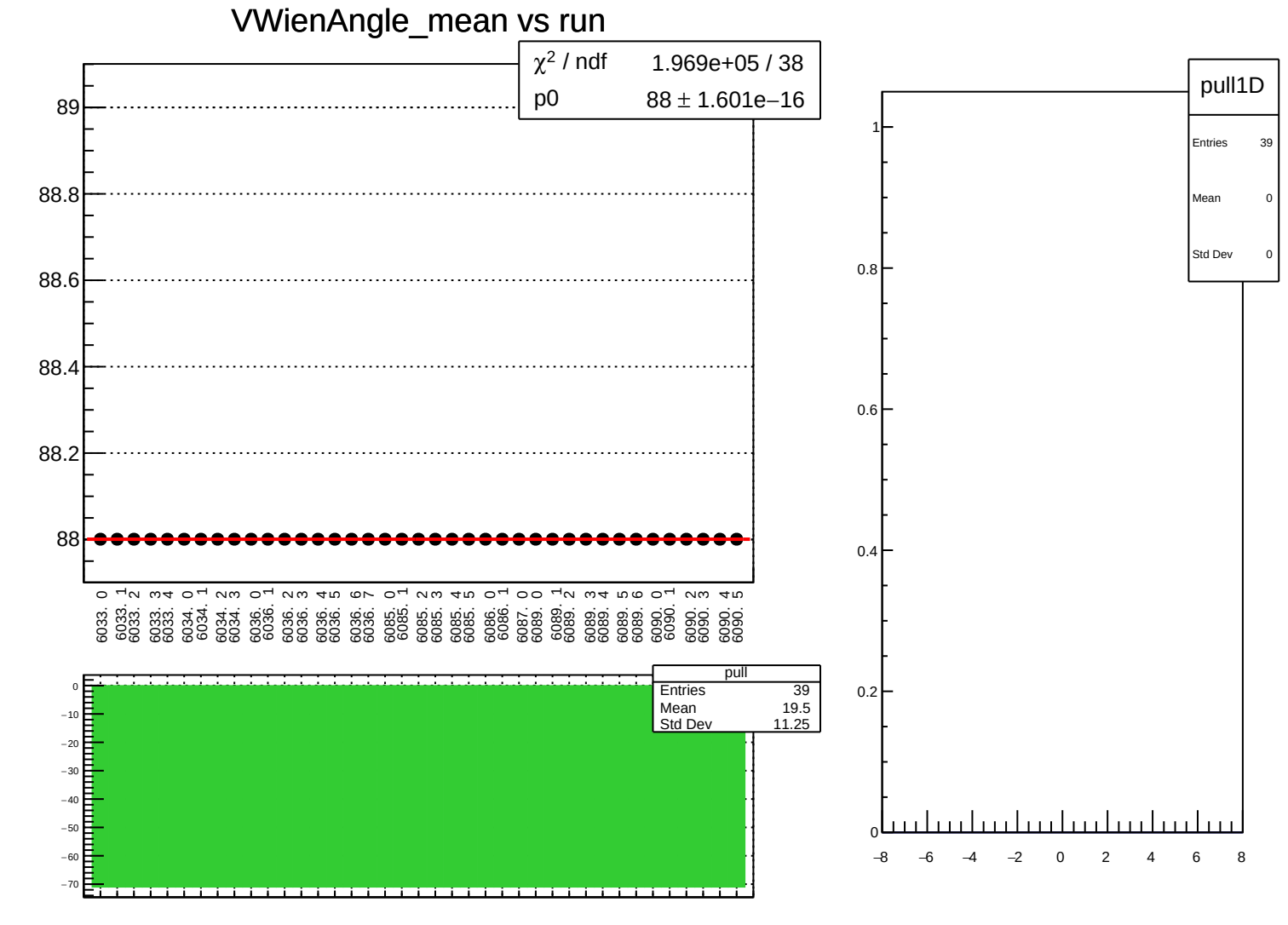

pull1D
Entries 39
Mean 0.01944
Std Dev 0.8271
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

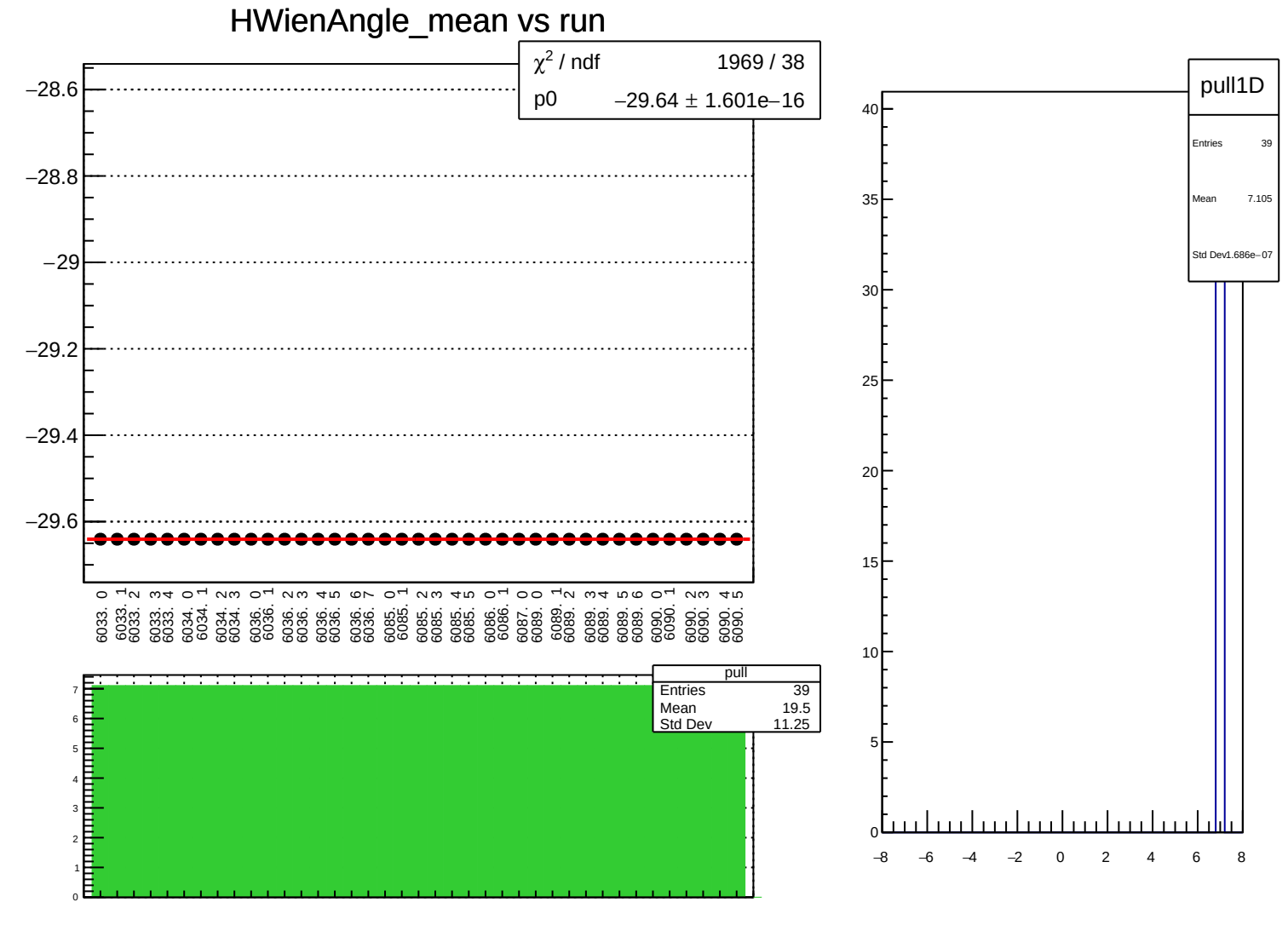

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 72.81 / 38
p0 −4.4 ± 0.3263
pull
Entries 39
Mean 44.92
Std Dev 20.12

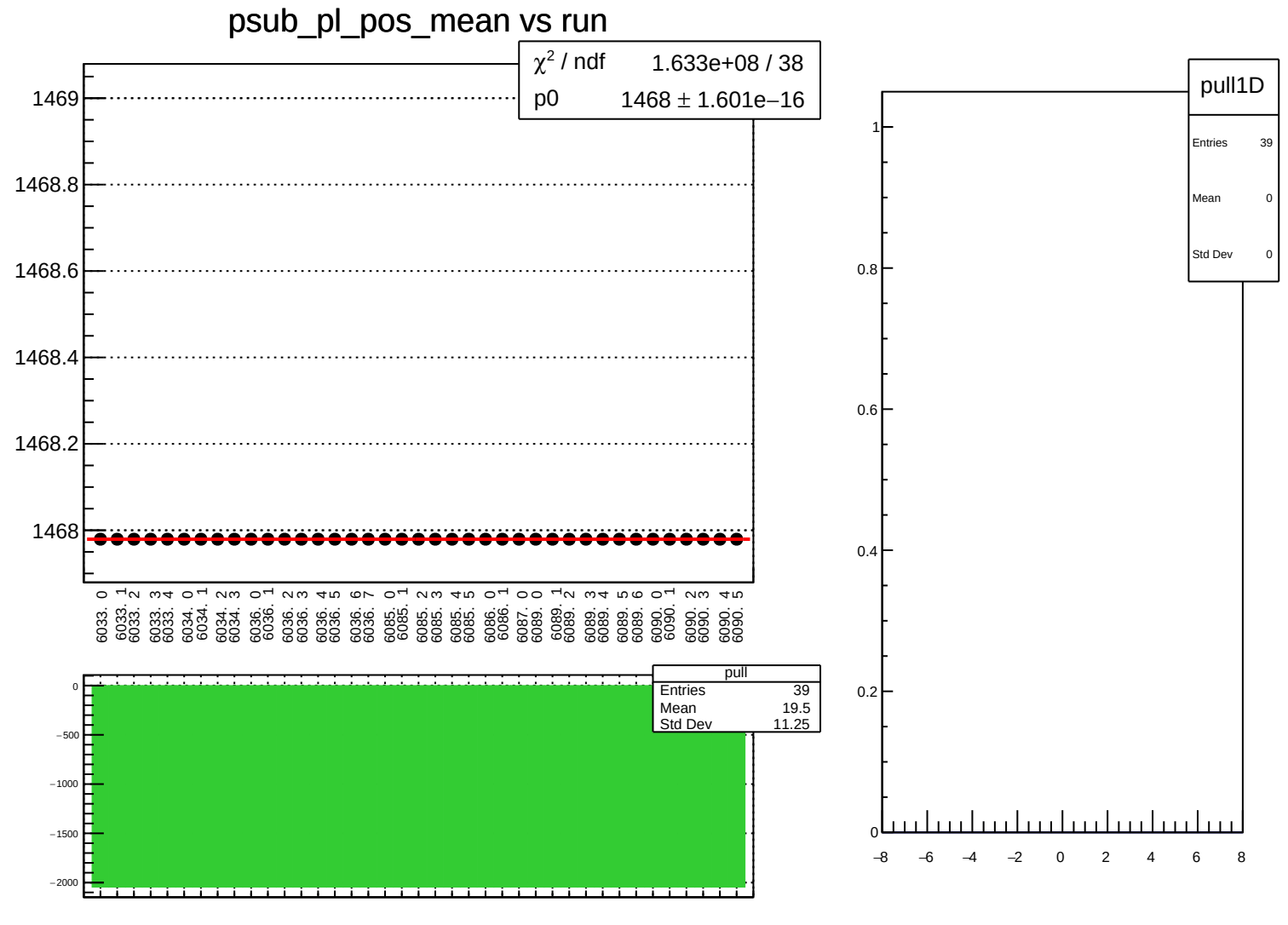

pull1D
Entries 39
Mean −0.0433
Std Dev 1.366

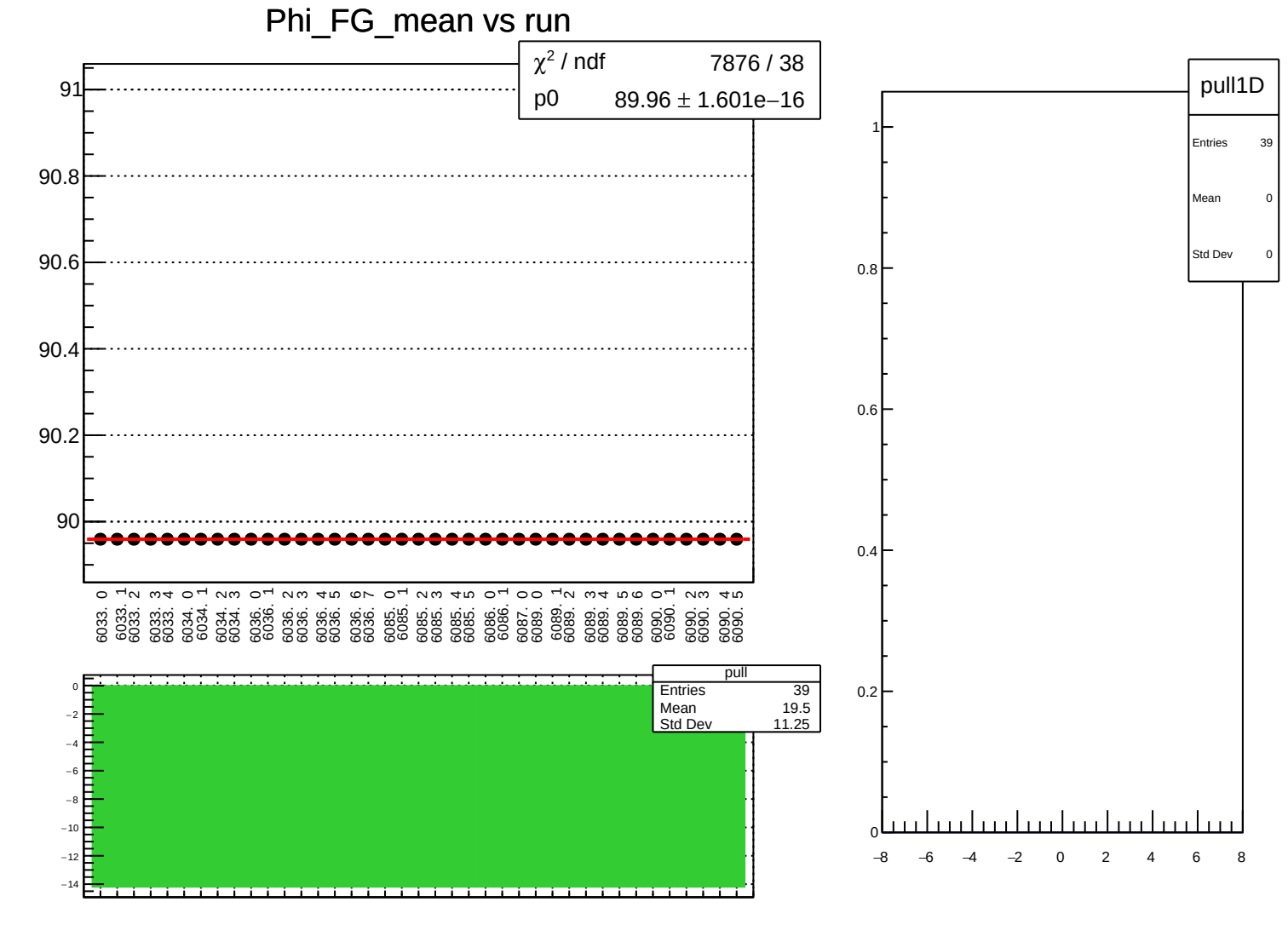

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 32.13 / 38
p0 0.2399 ± 0.02537
pull
Entries 39
Mean 66.21
Std Dev 40.08

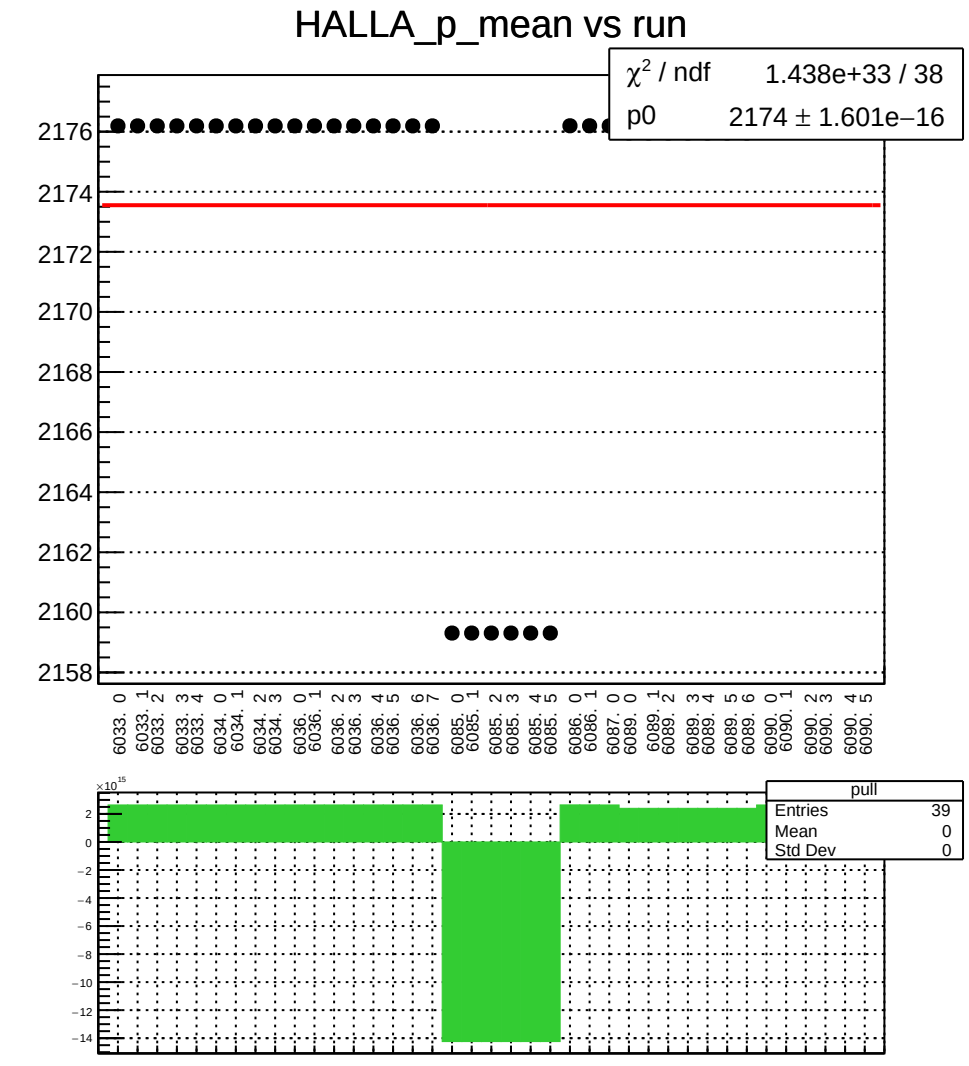

pull1D
Entries 39
Mean 0.03046
Std Dev 0.9071

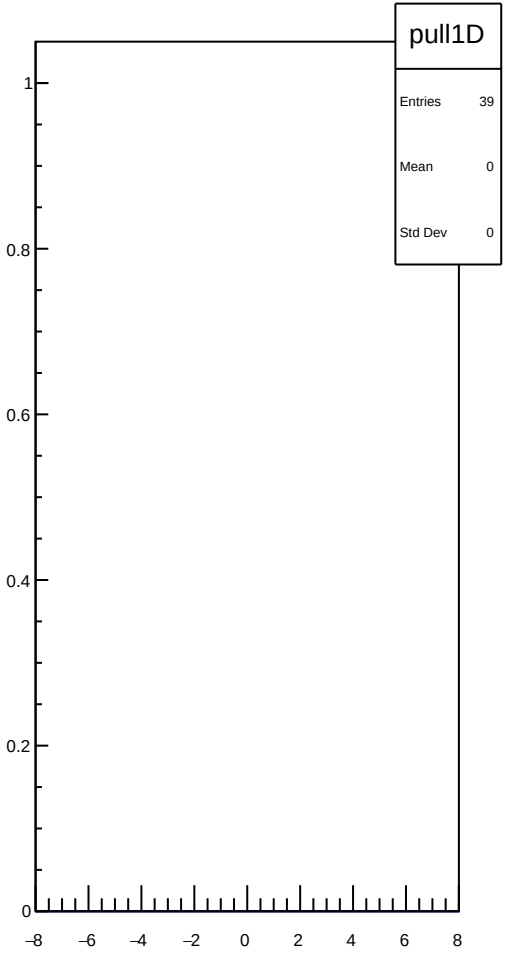

VWienAngle_mean vs run
χ² / ndf 1.969e+05 / 38
p0 88 ± 1.601e−16
89
88.8
88.6
88.4
88.2
88
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

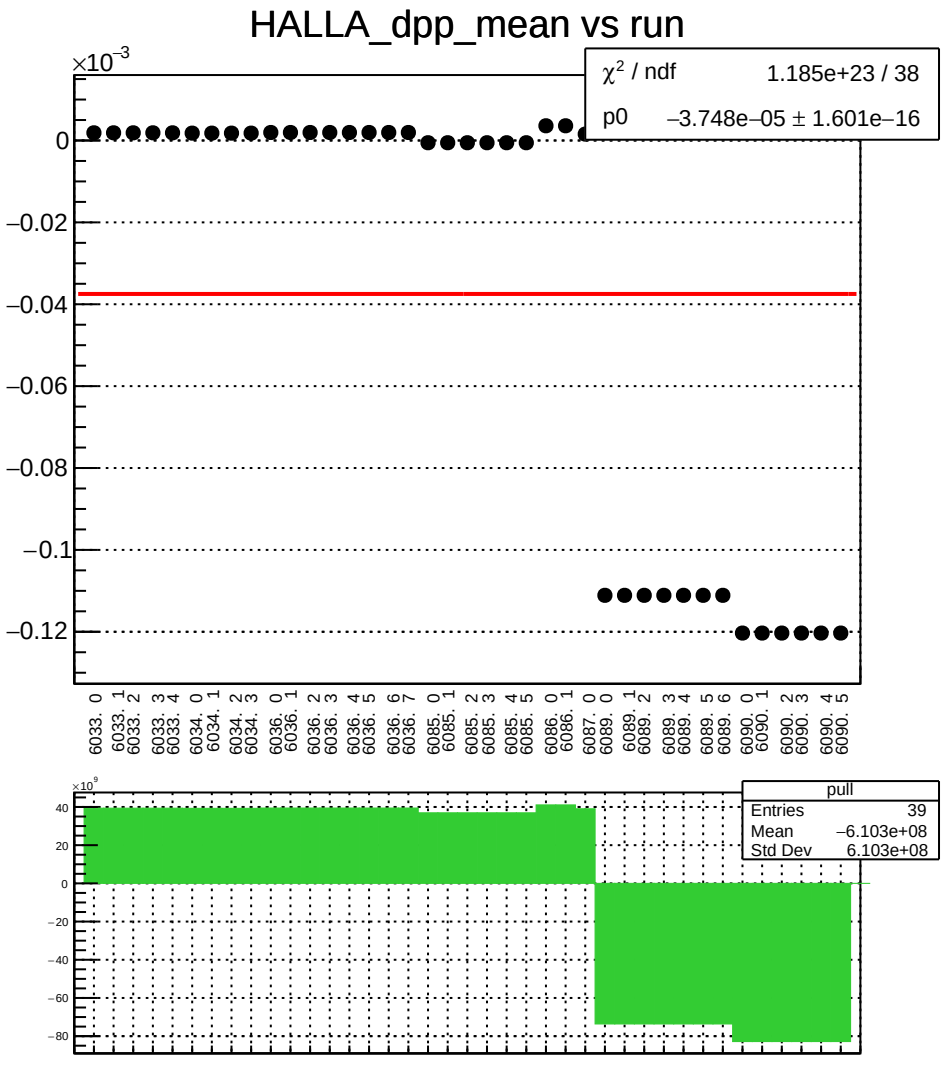

HWienAngle_mean vs run
χ² / ndf 1969 / 38
p0 −29.64 ± 1.601e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 7.105
Std Dev 1.686e−07

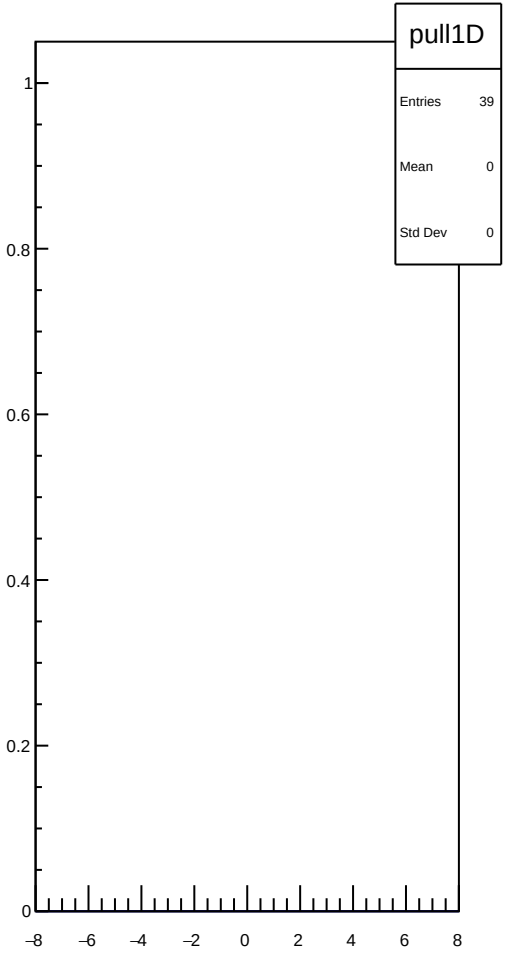

psub_pl_pos_mean vs run
χ² / ndf 1.633e+08 / 38
p0 1468 ± 1.601e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−500
−1000
−1500
−2000
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

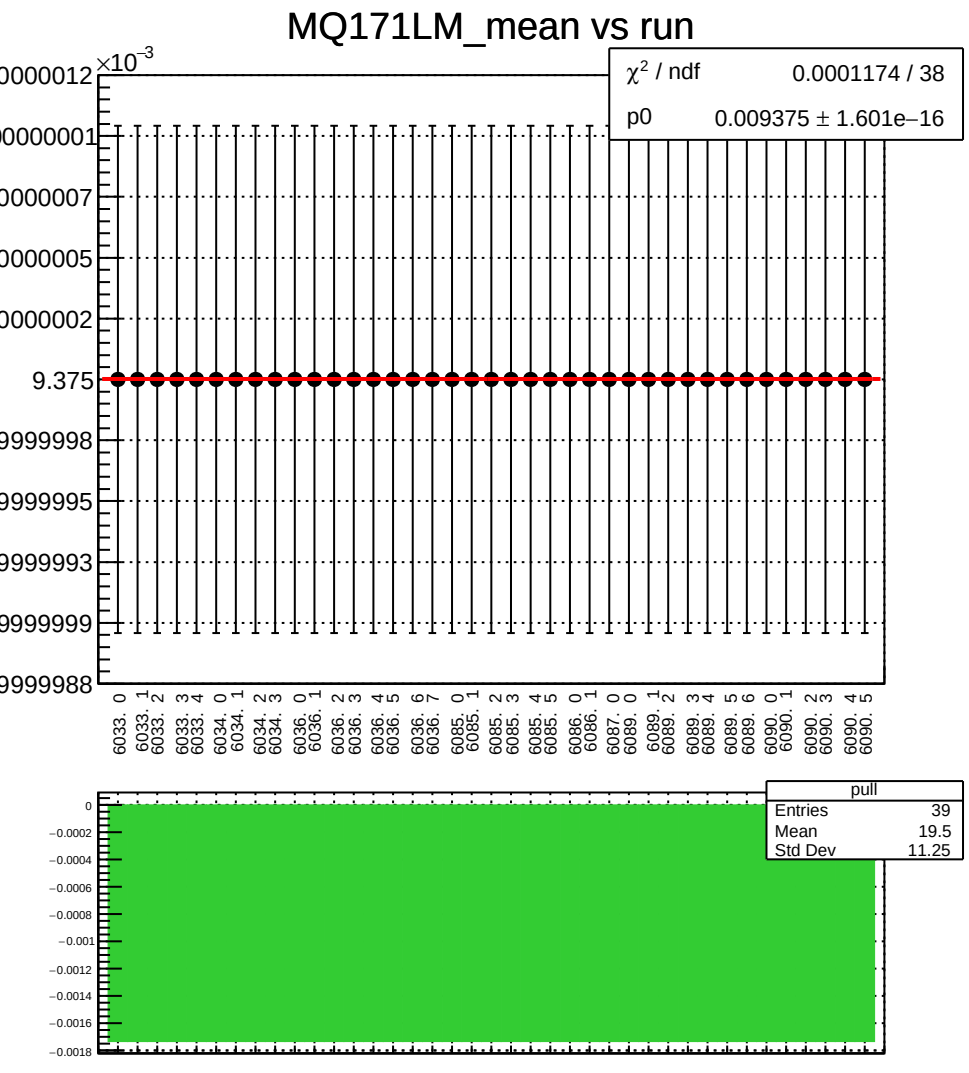

Phi_FG_mean vs run
χ² / ndf 7876 / 38
p0 89.96 ± 1.601e−16
91
90.8
90.6
90.4
90.2
90
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

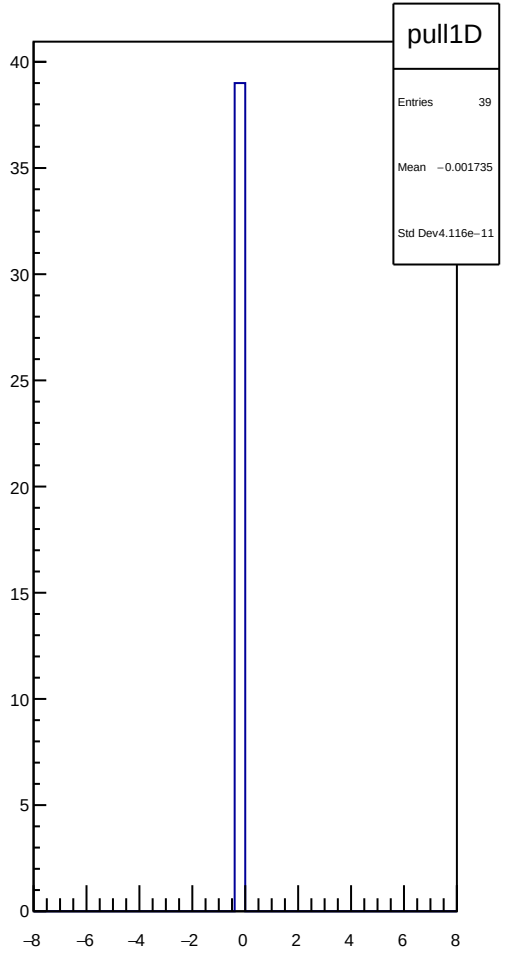

HALLA_p_mean vs run
χ² / ndf 1.438e+33 / 38
p0 2174 ± 1.601e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 39
Mean 0
Std Dev 0

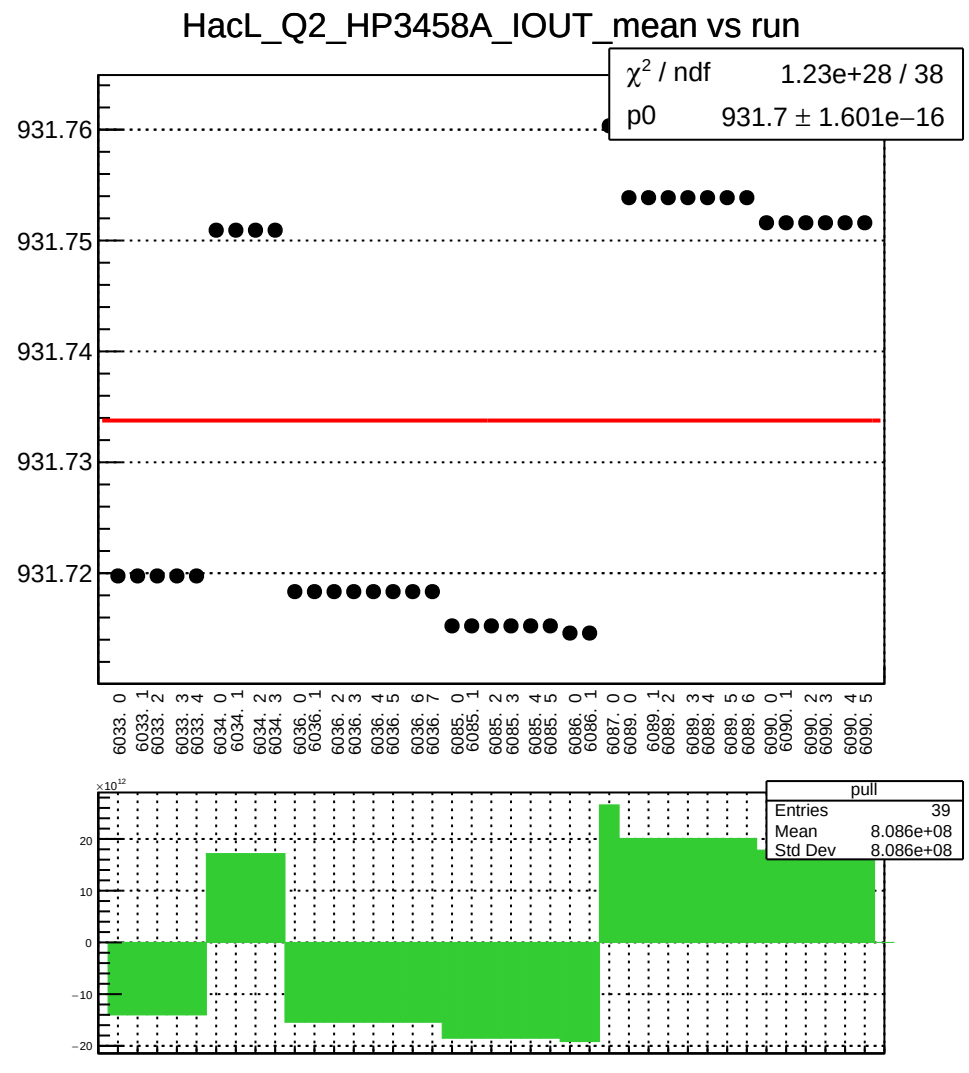

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

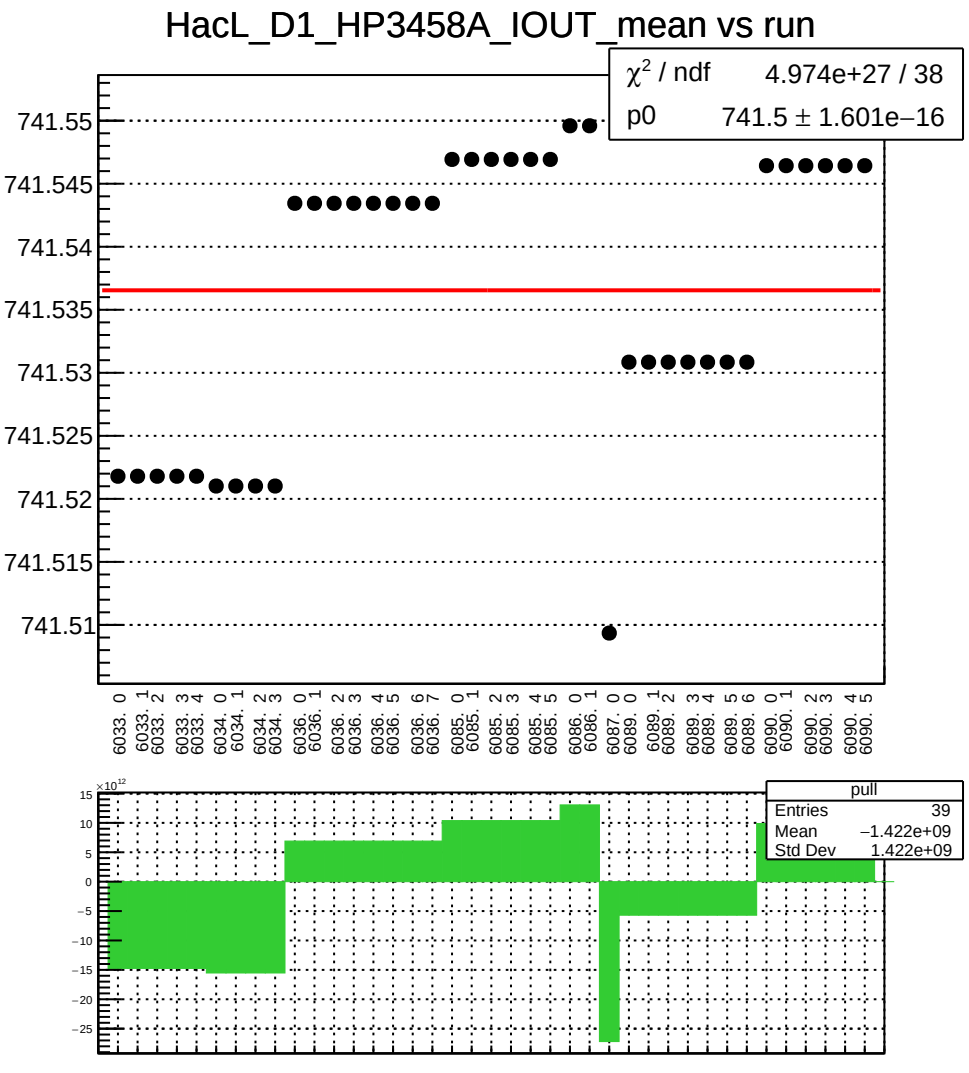

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.185e+23 / 38
p0 −3.748e−05 ± 1.601e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁹
pull
Entries 39
Mean −6.103e+08
Std Dev 6.103e+08
40
20
0
−20
−40
−60
−80

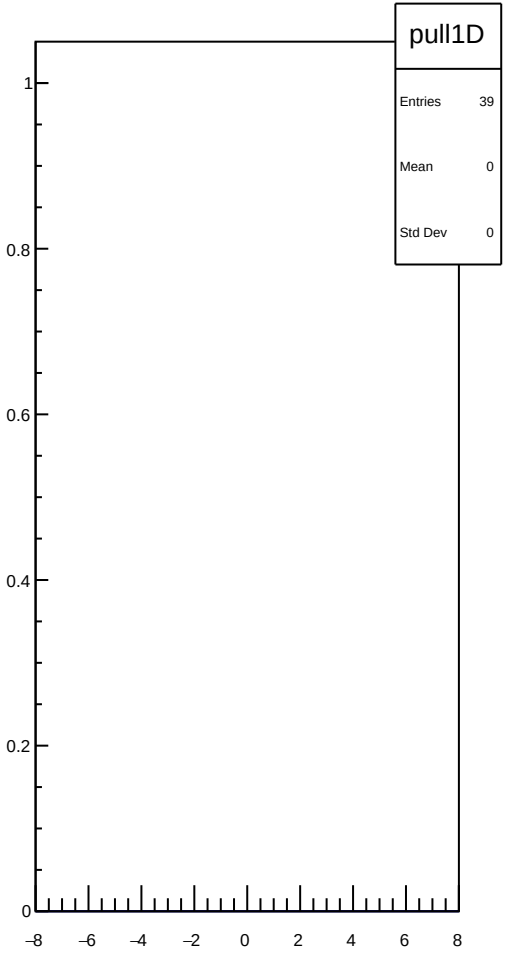

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

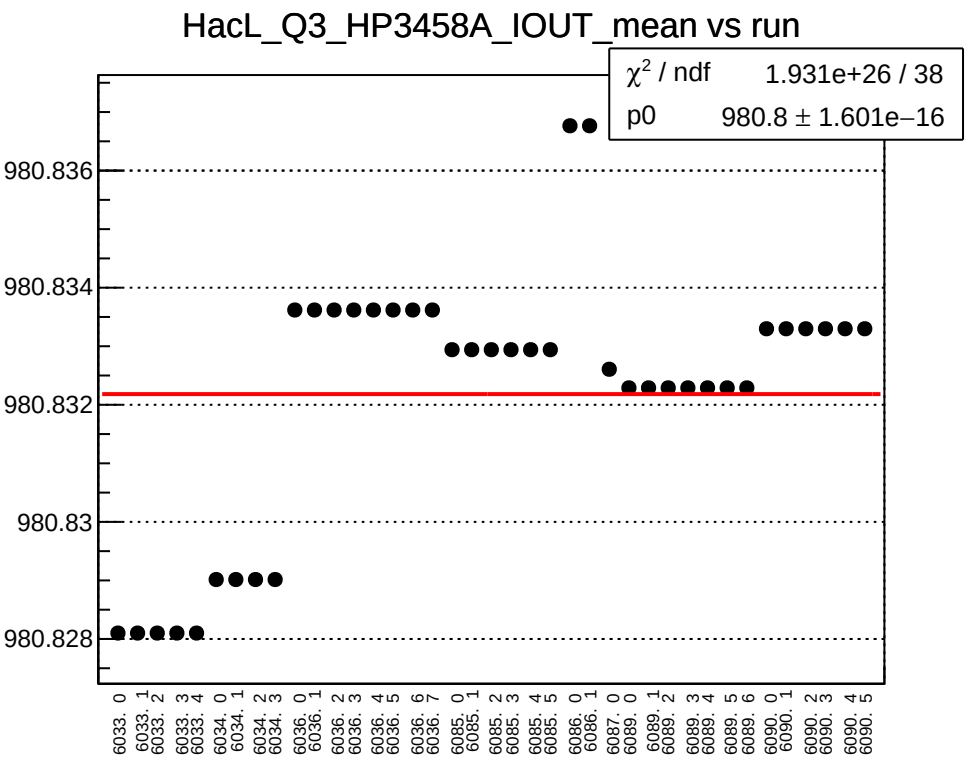

MQ171LM_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
pull
Entries 39
Mean 19.5
Std Dev 11.25

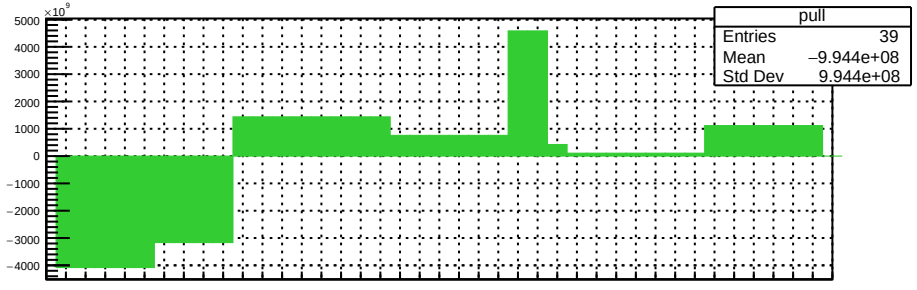

pull1D
Entries 39
Mean −0.001735
Std Dev4.116e−11

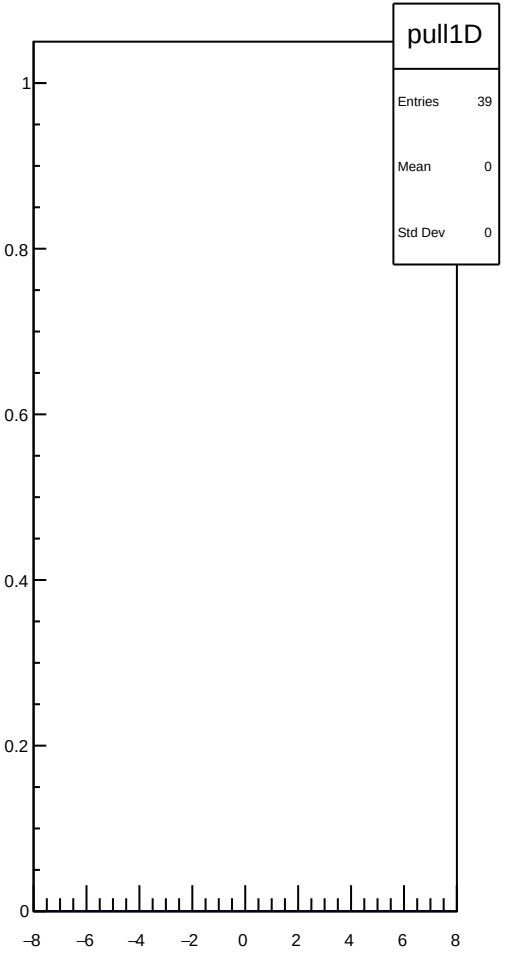

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.23e+28 / 38
p0 931.7 ± 1.601e−16
931.76
931.75
931.74
931.73
931.72
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
20
10
0
−10
−20
pull
Entries 39
Mean 8.086e+08
Std Dev 8.086e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

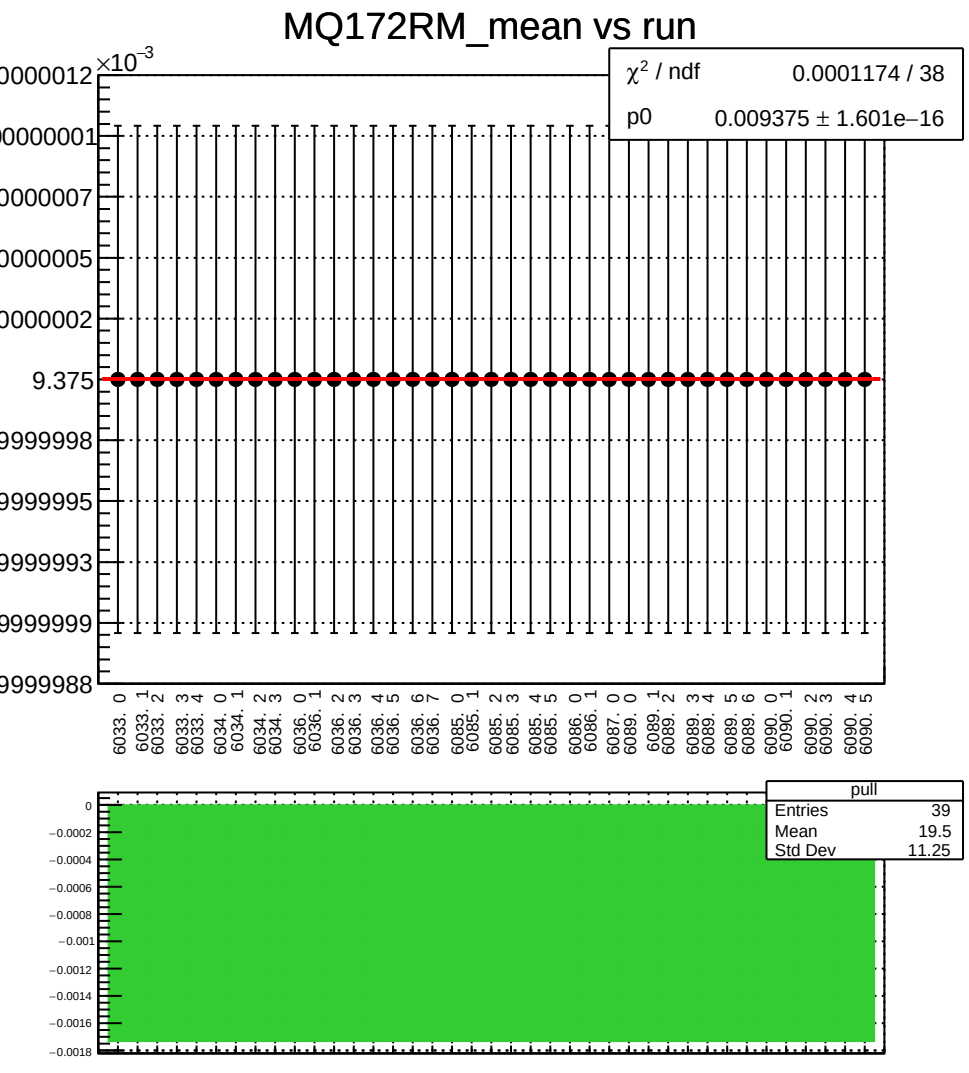

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.974e+27 / 38
p0 741.5 ± 1.601e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
15
10
5
0
−5
−10
−15
−20
−25
pull
Entries 39
Mean −1.422e+09
Std Dev 1.422e+09

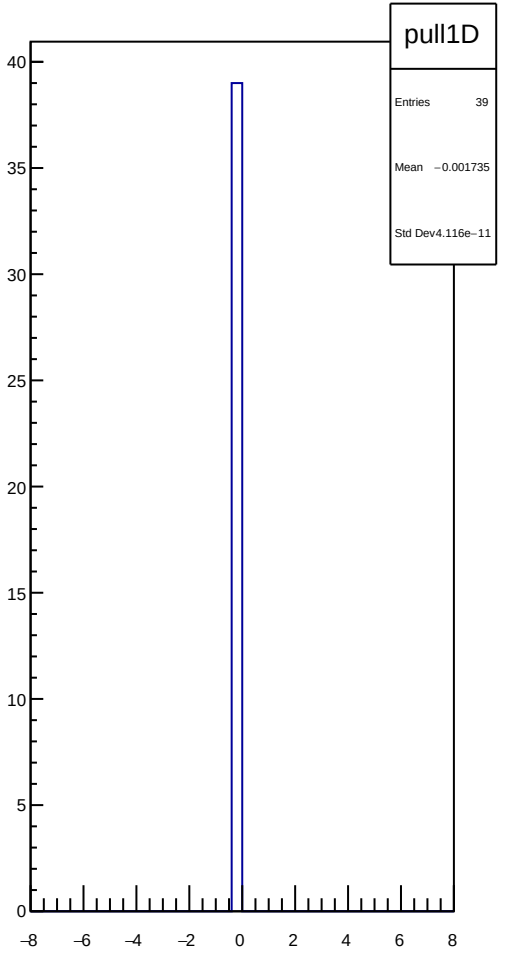

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

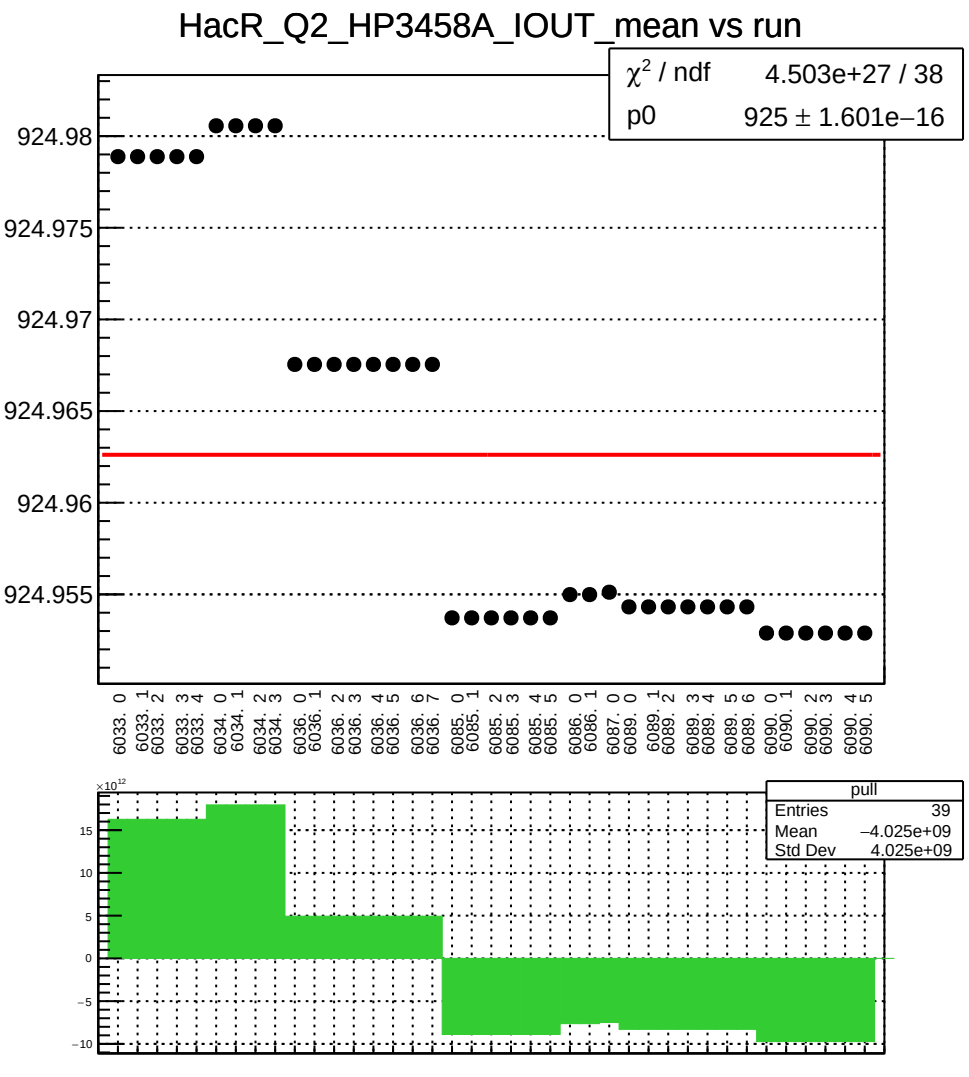

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.931e+26 / 38
p0 980.8 ± 1.601e−16
980.836
980.834
980.832
980.83
980.828
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

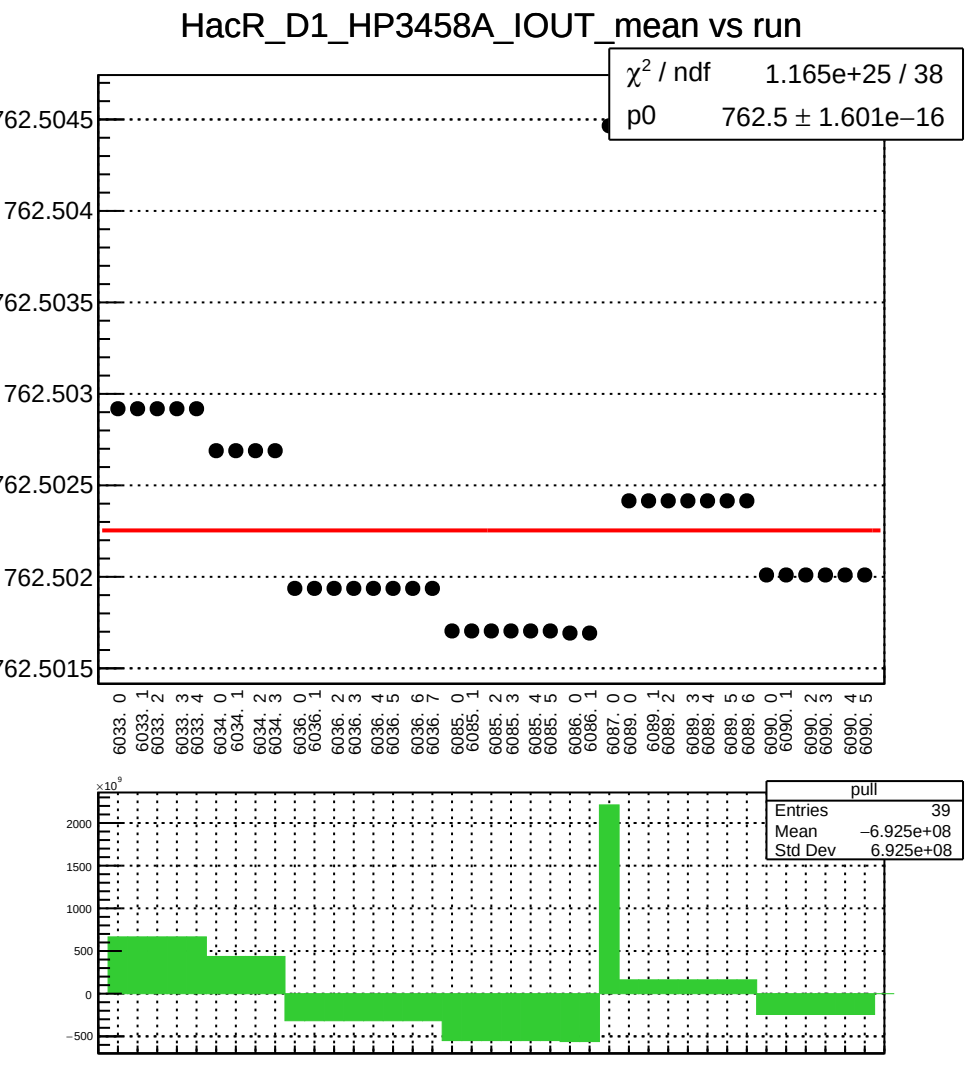

×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean −9.944e+08
Std Dev 9.944e+08

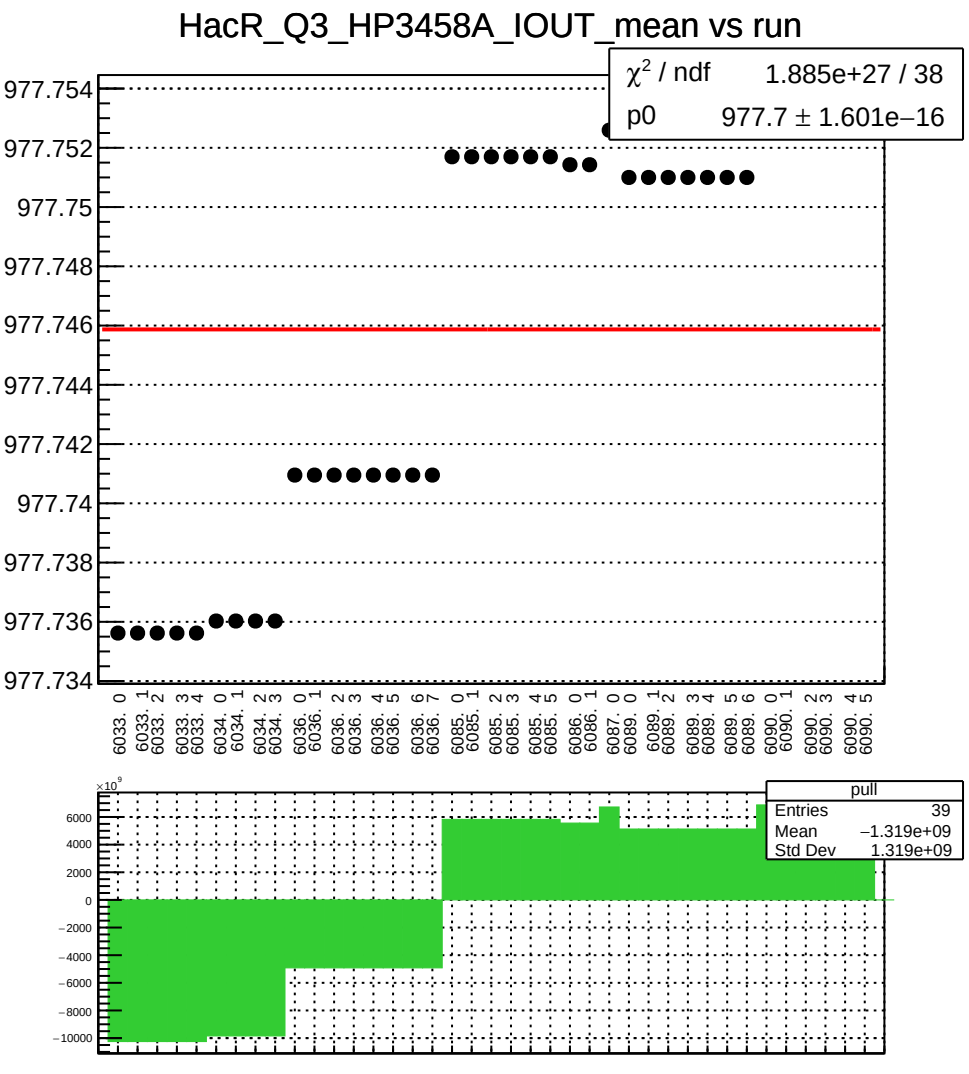

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

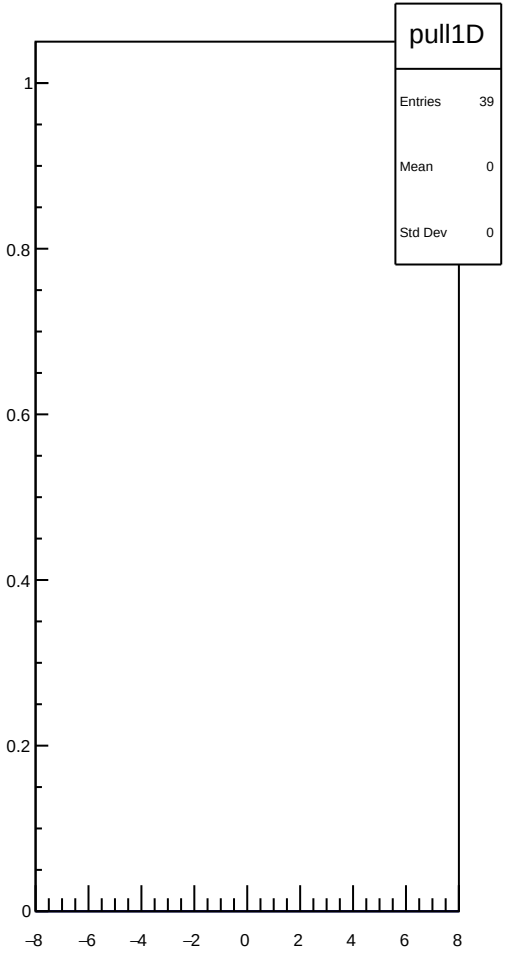

MQ172RM_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
−0.0016
−0.0018

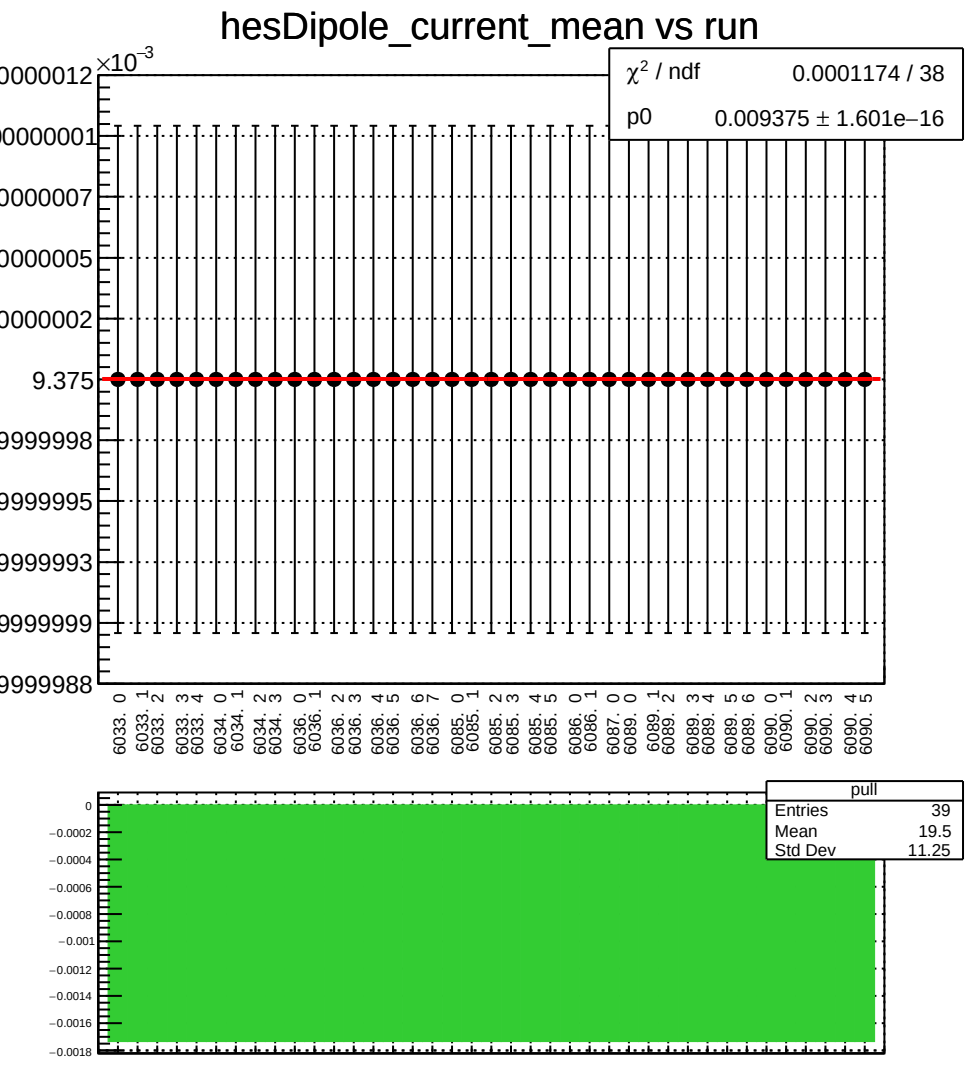

pull1D
Entries 39
Mean −0.001735
Std Dev4.116e−11
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

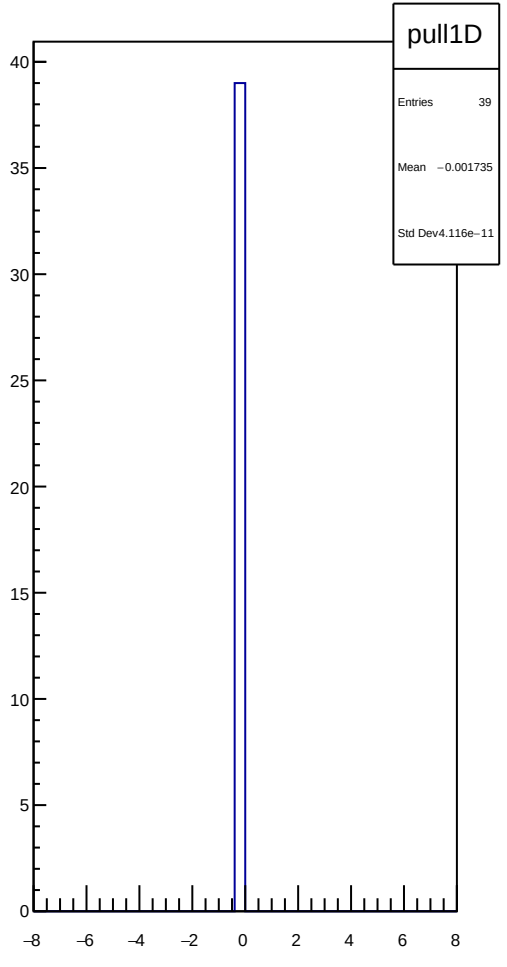

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.503e+27 / 38
p0 925 ± 1.601e−16
924.98
924.975
924.97
924.965
924.96
924.955
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
15
10
5
0
−5
−10
pull
Entries 39
Mean −4.025e+09
Std Dev 4.025e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

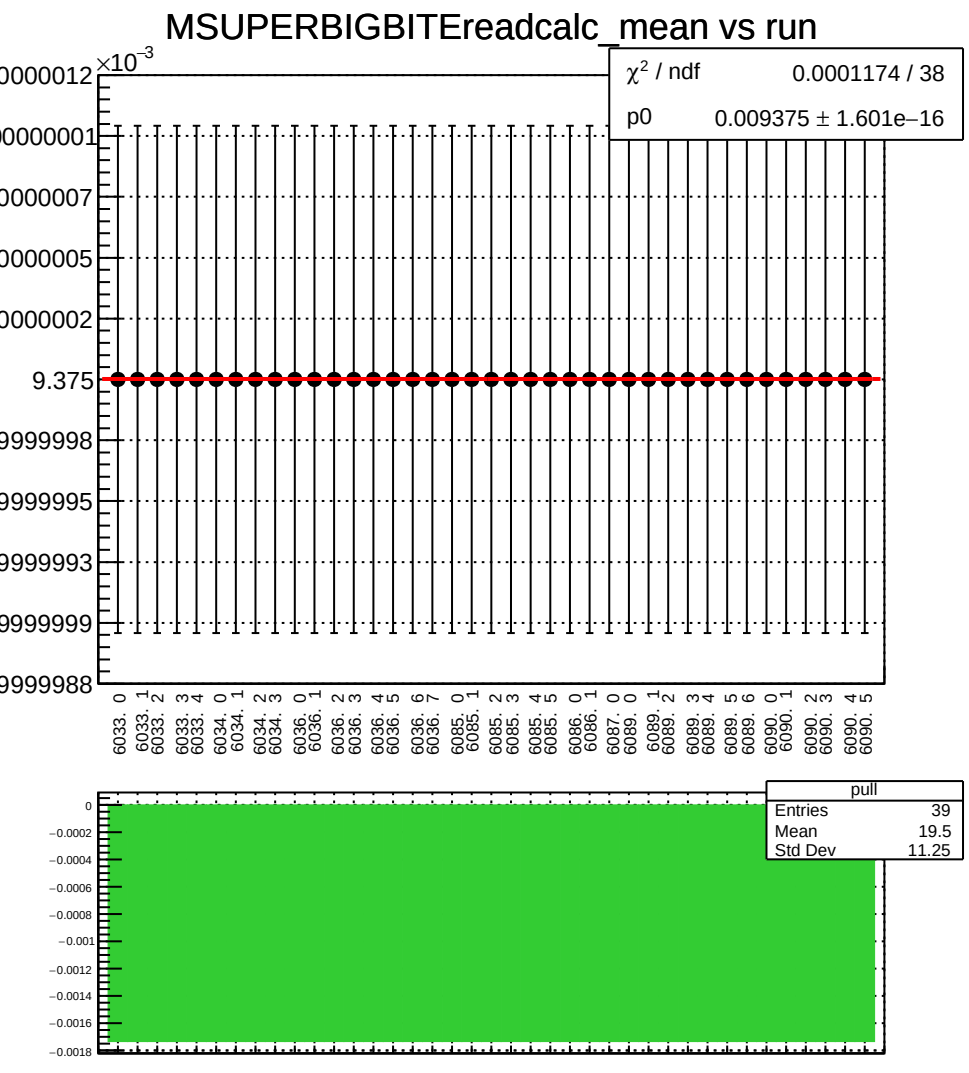

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.165e+25 / 38
p0 762.5 ± 1.601e−16
762.5045
762.504
762.5035
762.503
762.5025
762.502
762.5015
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁹
2000
1500
1000
500
0
−500
pull
Entries 39
Mean −6.925e+08
Std Dev 6.925e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

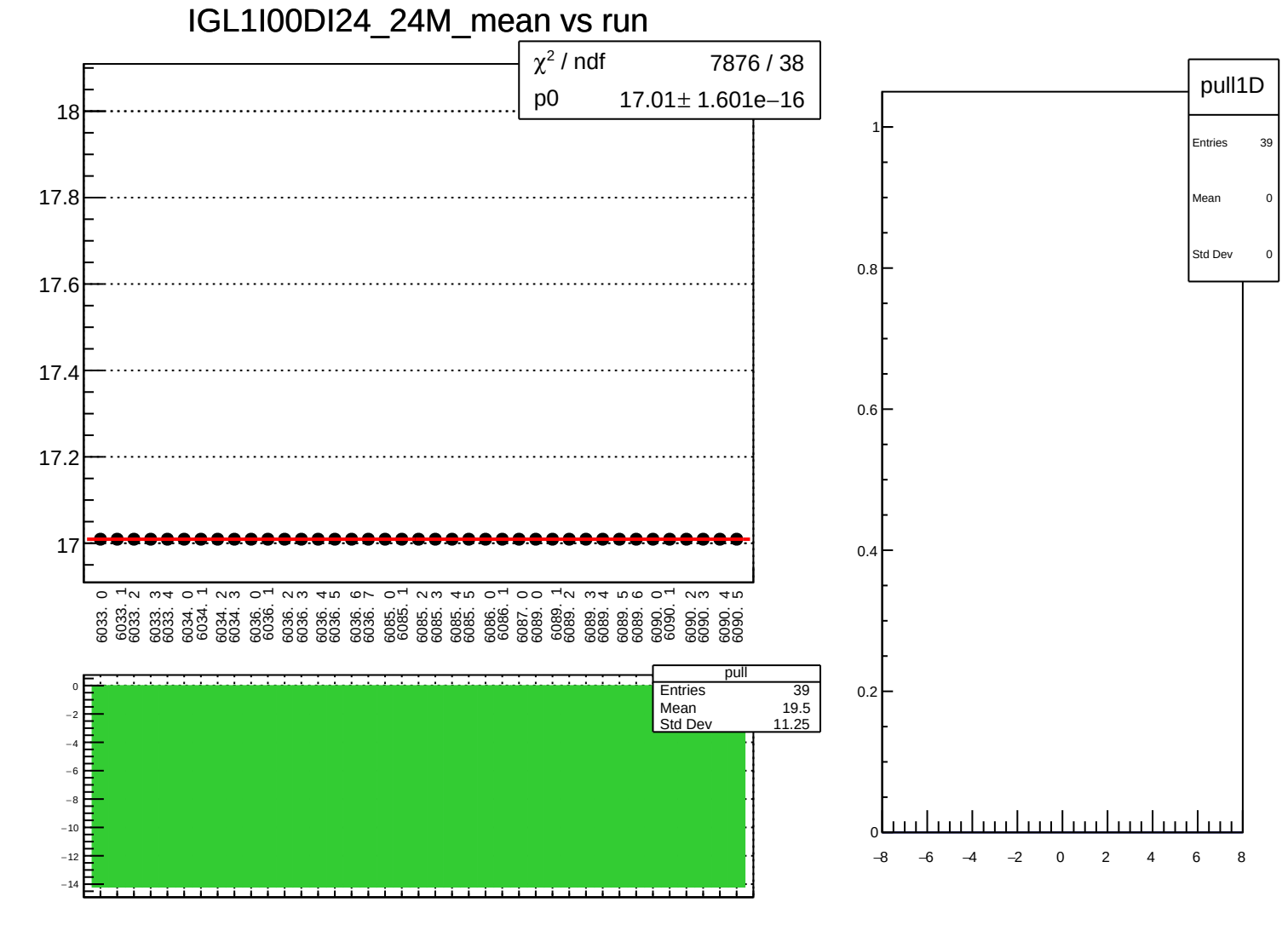

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.885e+27 / 38
p0 977.7 ± 1.601e−16
977.754
977.752
977.75
977.748
977.746
977.744
977.742
977.74
977.738
977.736
977.734
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 39
Mean −1.319e+09
Std Dev 1.319e+09

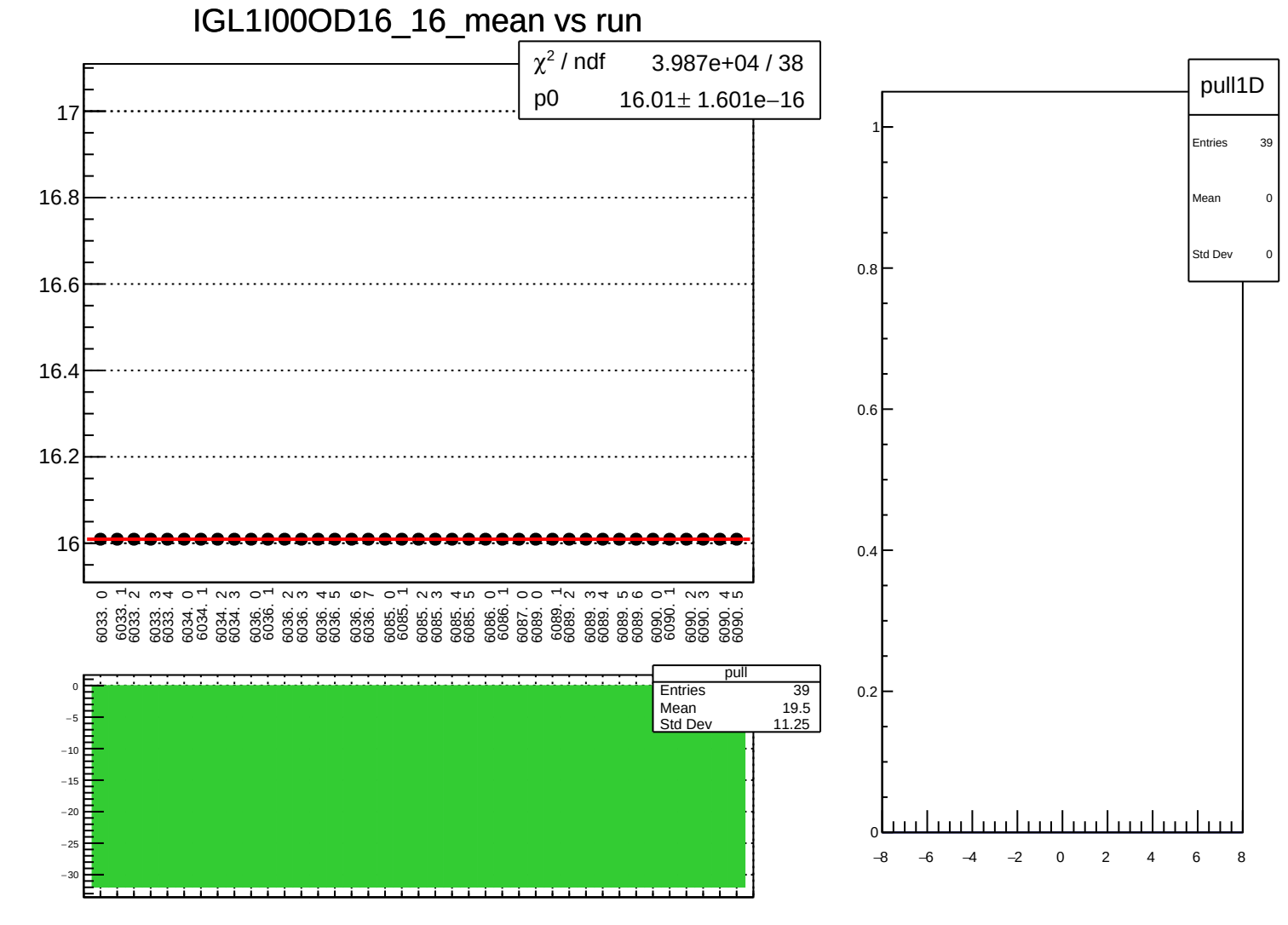

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

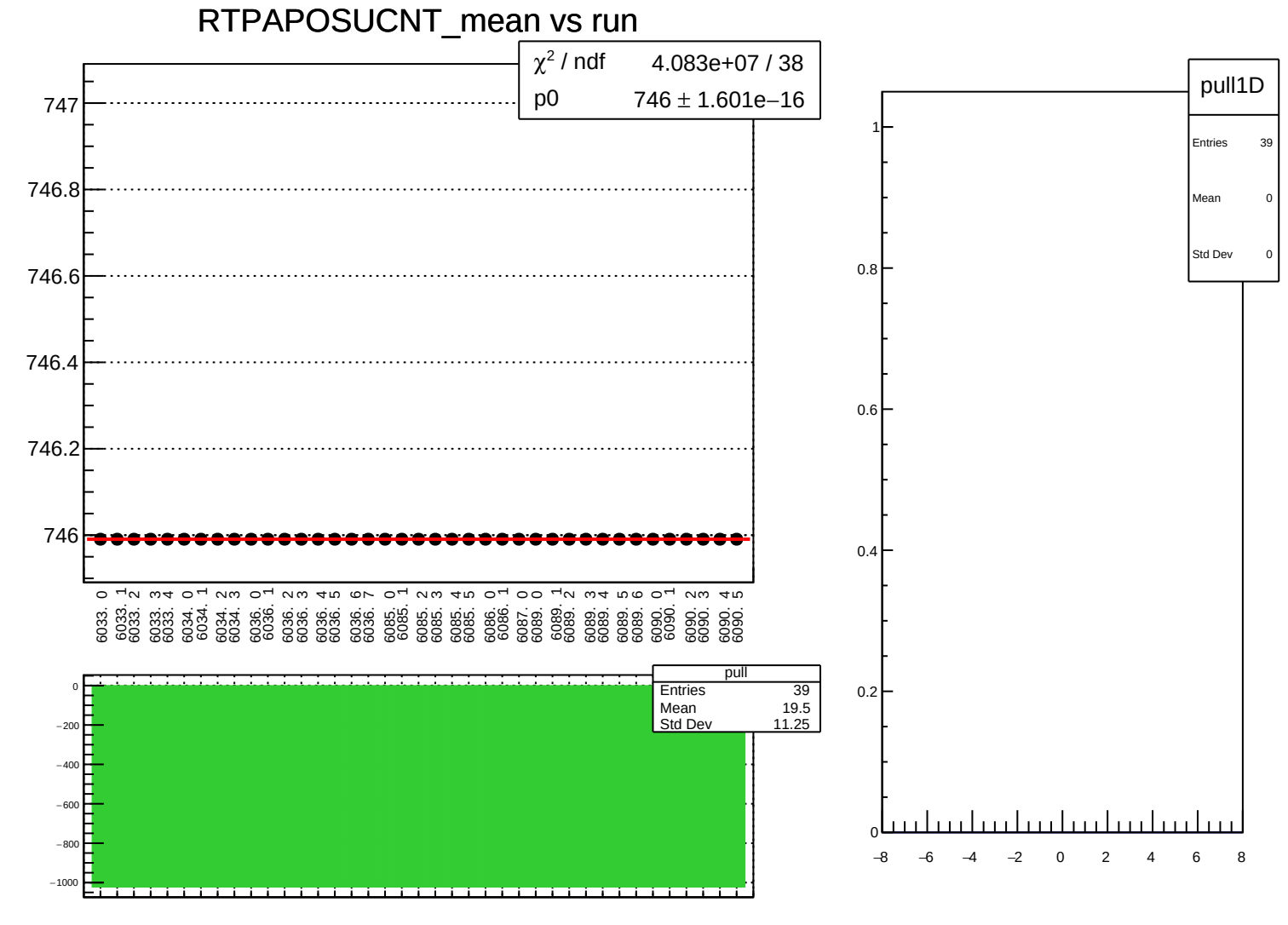

hesDipole_current_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
9.375
pull
Entries 39
Mean 19.5
Std Dev 11.25

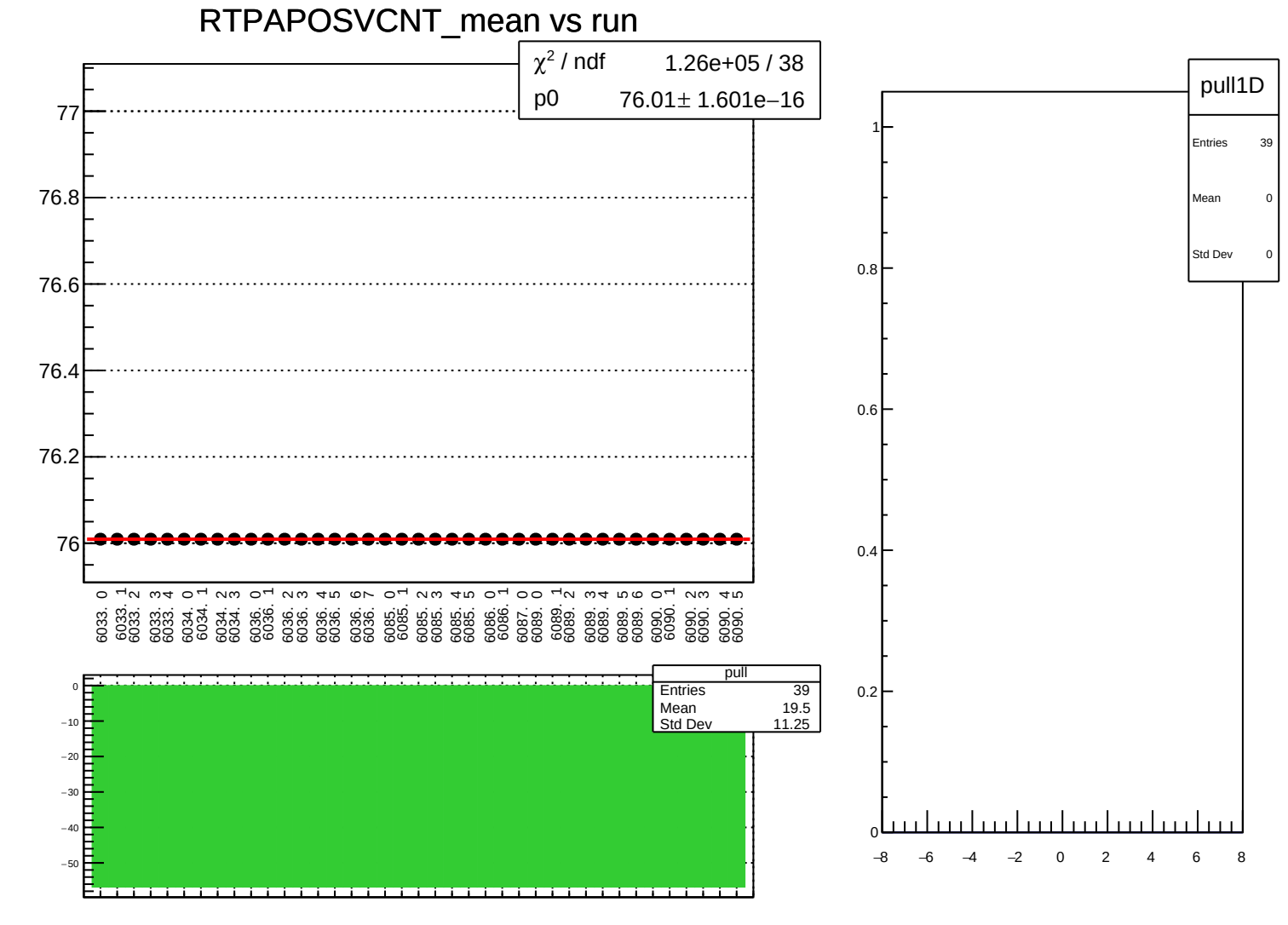

pull1D
Entries 39
Mean −0.001735
Std Dev4.116e−11


MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001174 / 38
p0 0.009375 ± 1.601e−16
×10⁻³
9.375
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −0.001735
Std Dev4.116e−11


IGL1I00DI24_24M_mean vs run
χ² / ndf 7876 / 38
p0 17.01± 1.601e−16
18
17.8
17.6
17.4
17.2
17
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 39
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 3.987e+04 / 38
p0 16.01± 1.601e−16
17
16.8
16.6
16.4
16.2
16
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 4.083e+07 / 38
p0 746 ± 1.601e−16
747
746.8
746.6
746.4
746.2
746
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−200
−400
−600
−800
−1000
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.26e+05 / 38
p0 76.01± 1.601e−16
77
76.8
76.6
76.4
76.2
76
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
−10
−20
−30
−40
−50
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8