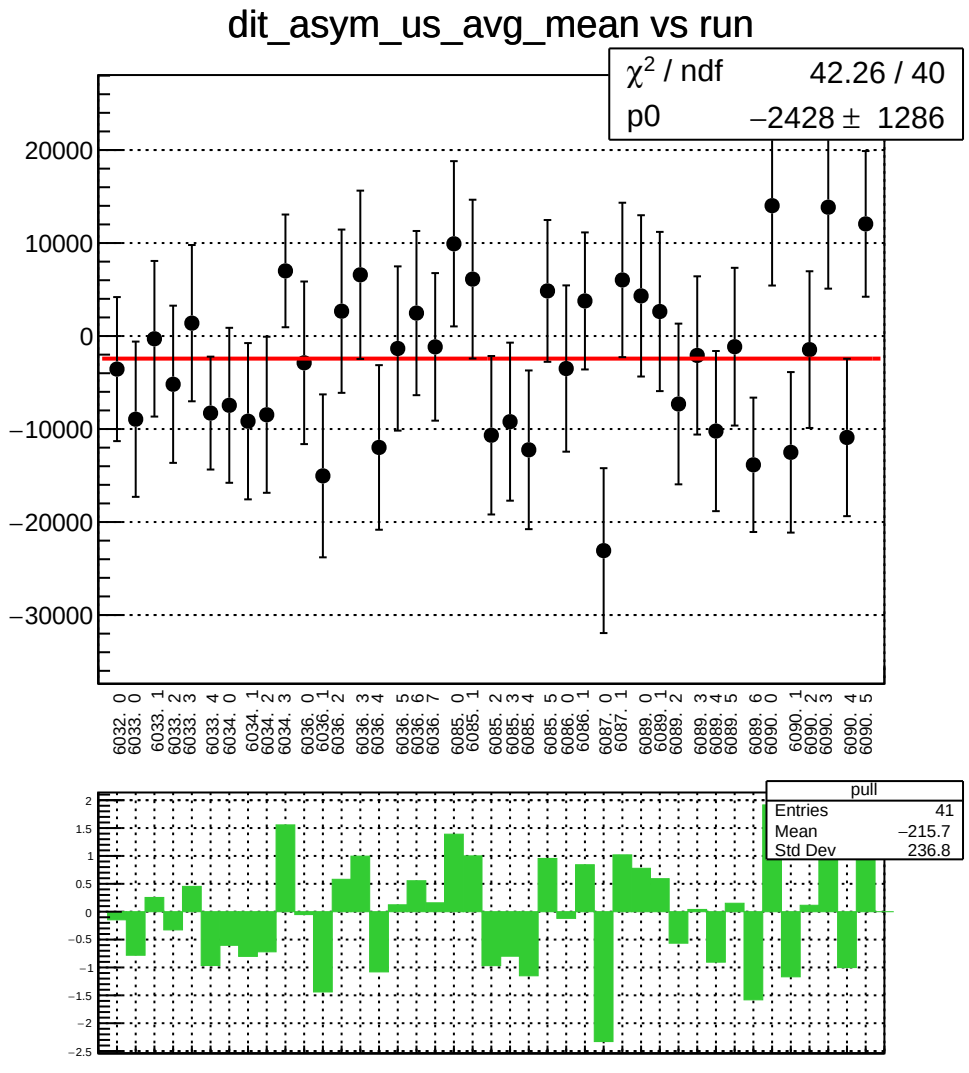
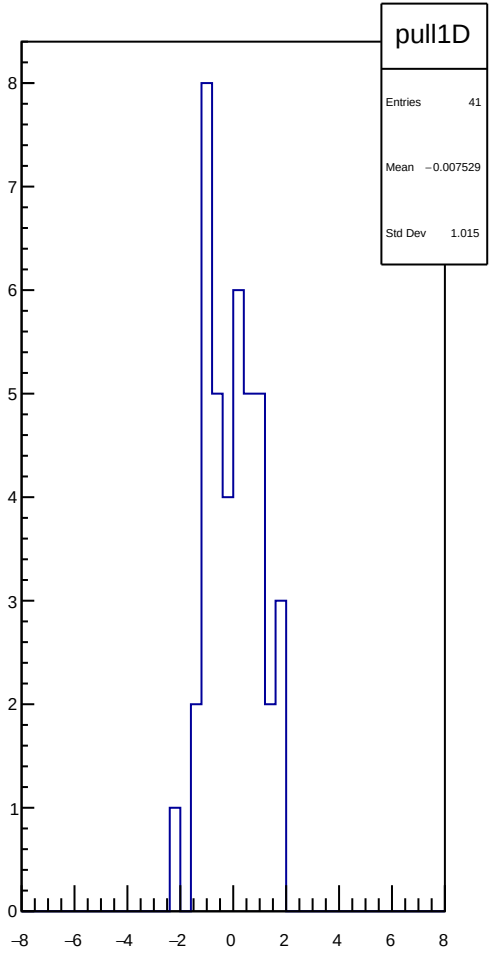
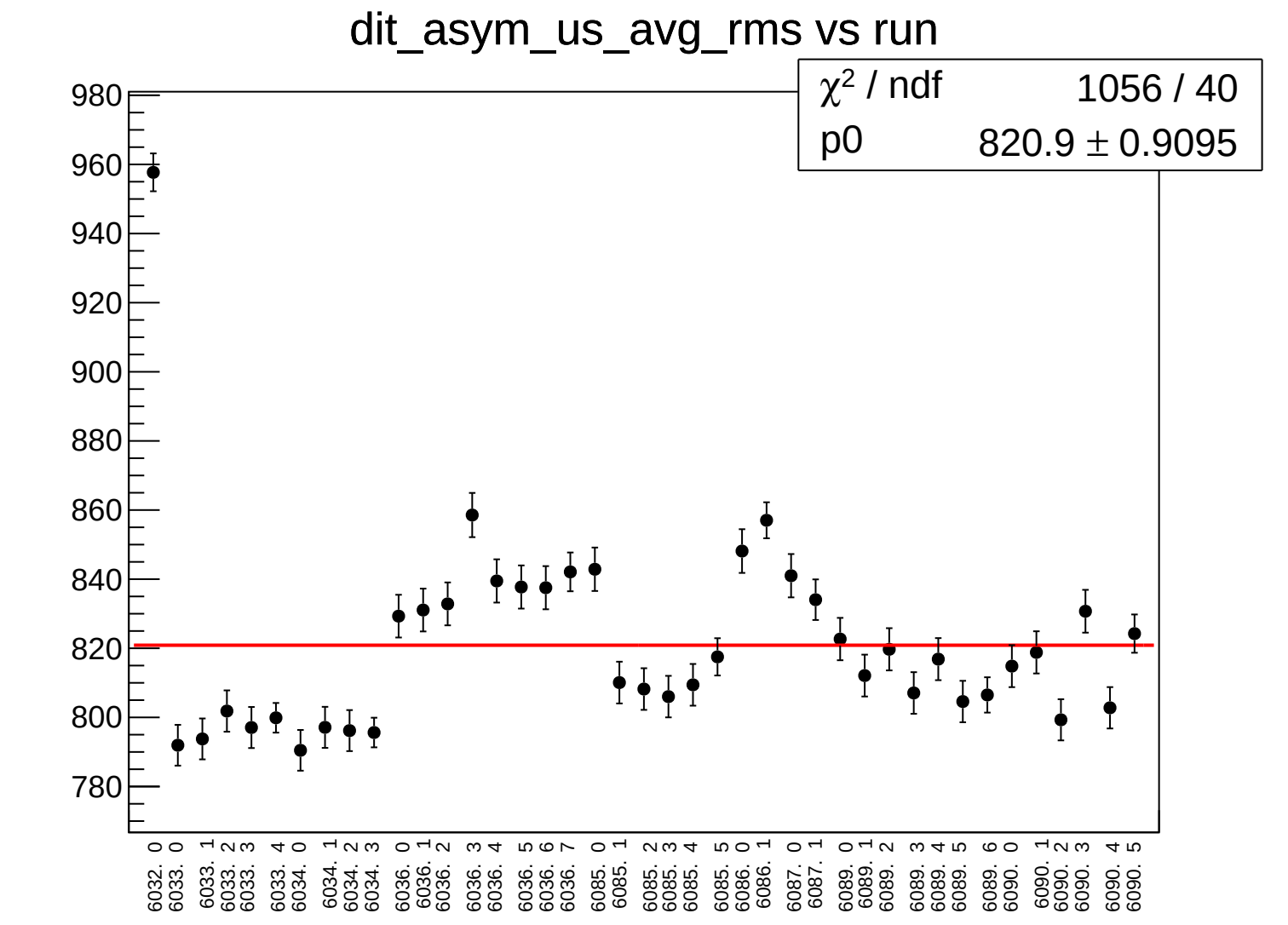
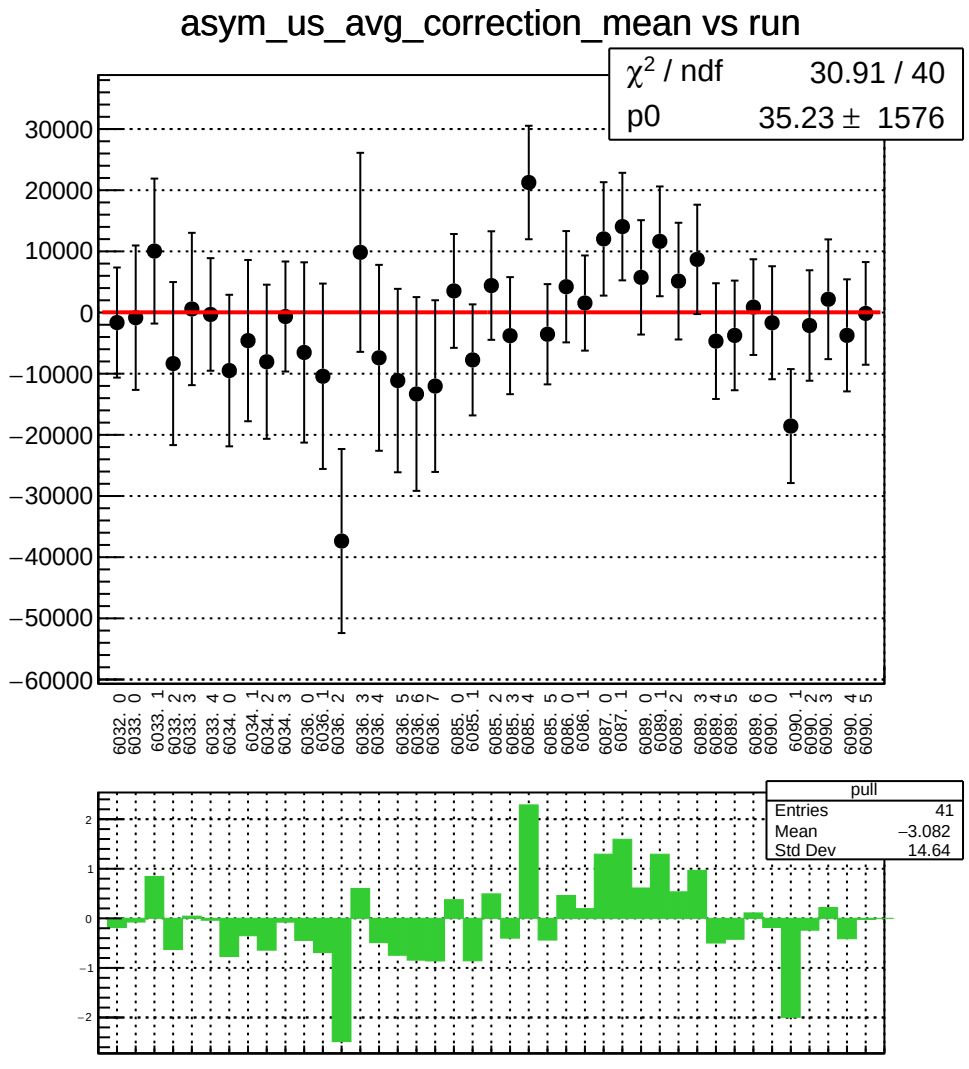
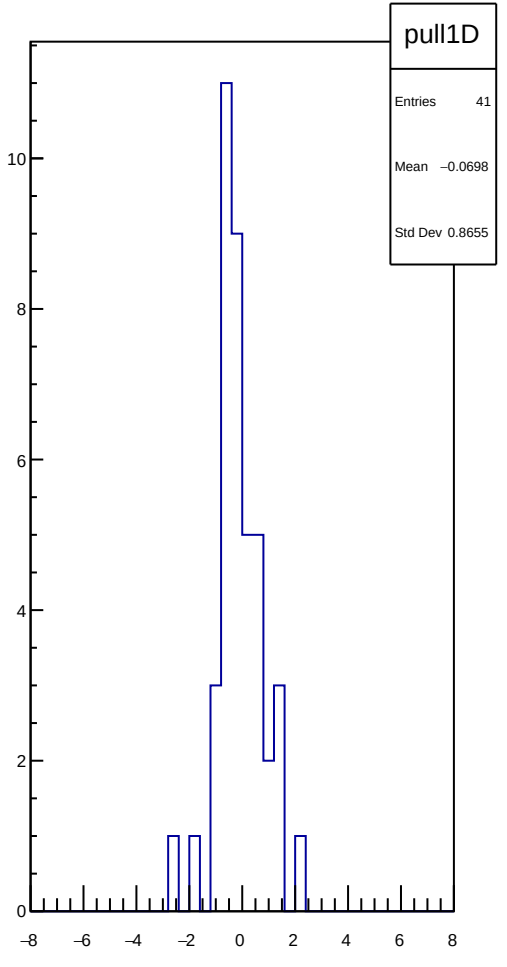
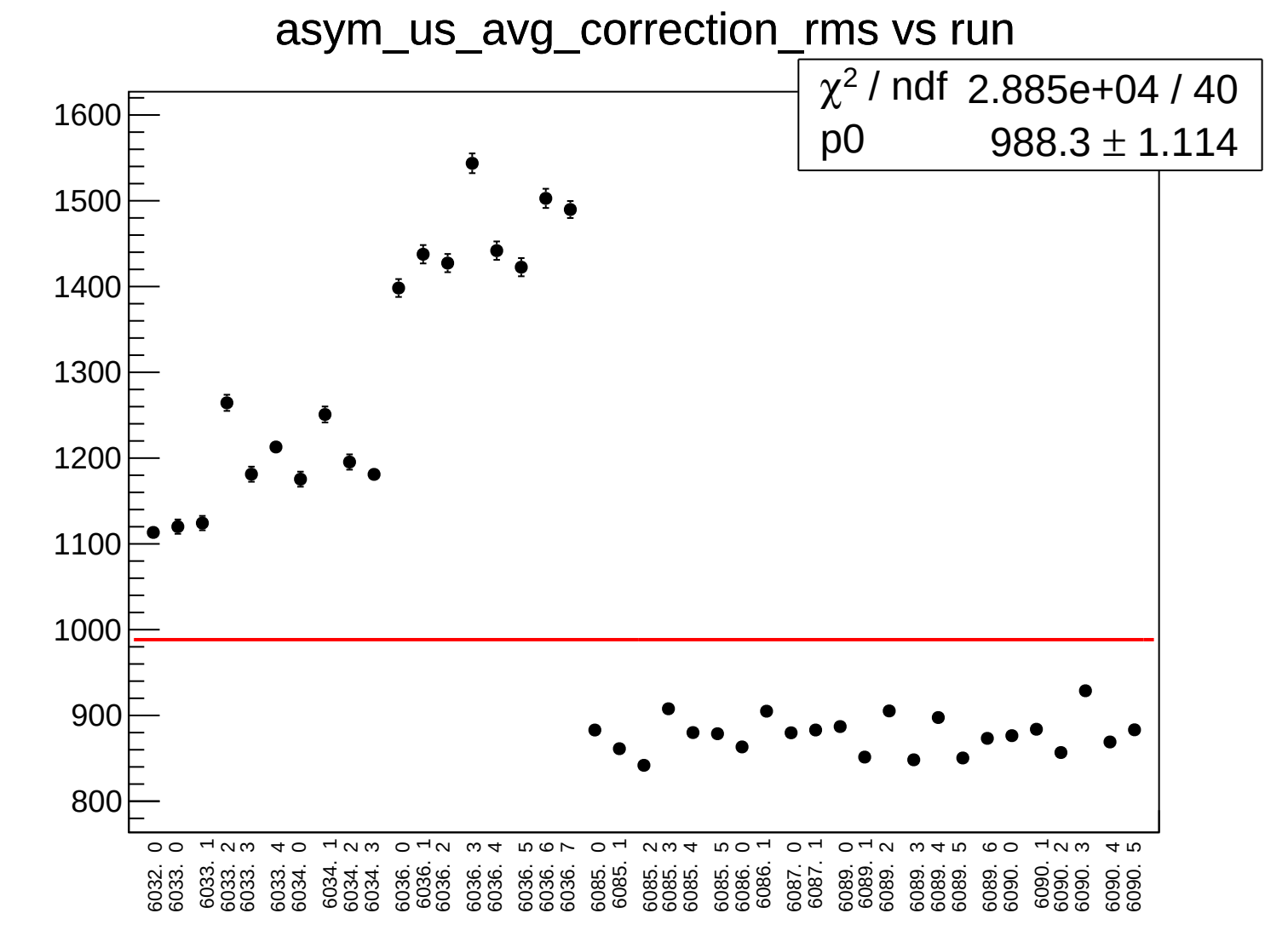

dit_asym_us_avg_mean vs run
χ² / ndf 42.26 / 40
p0 −2428 ± 1286
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −215.7
Std Dev 236.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

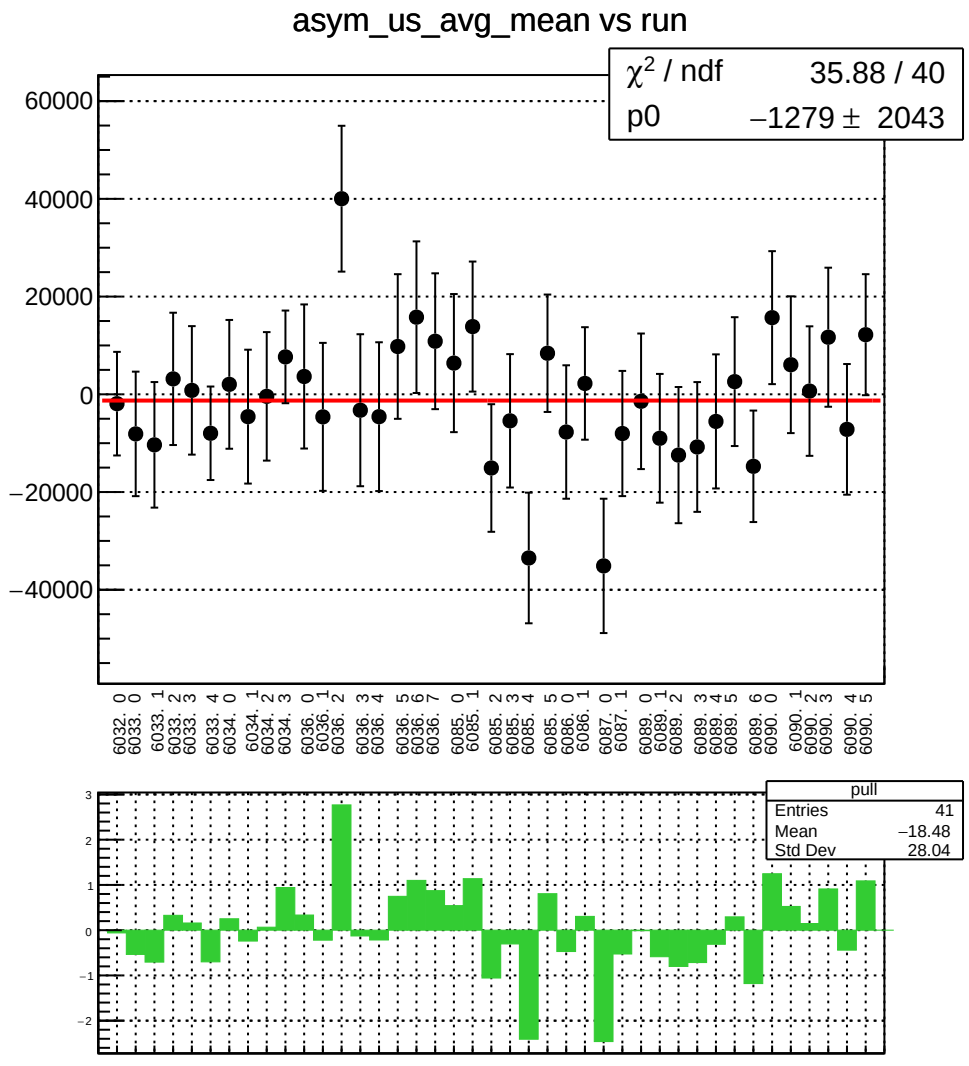

pull1D
Entries 41
Mean −0.007529
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

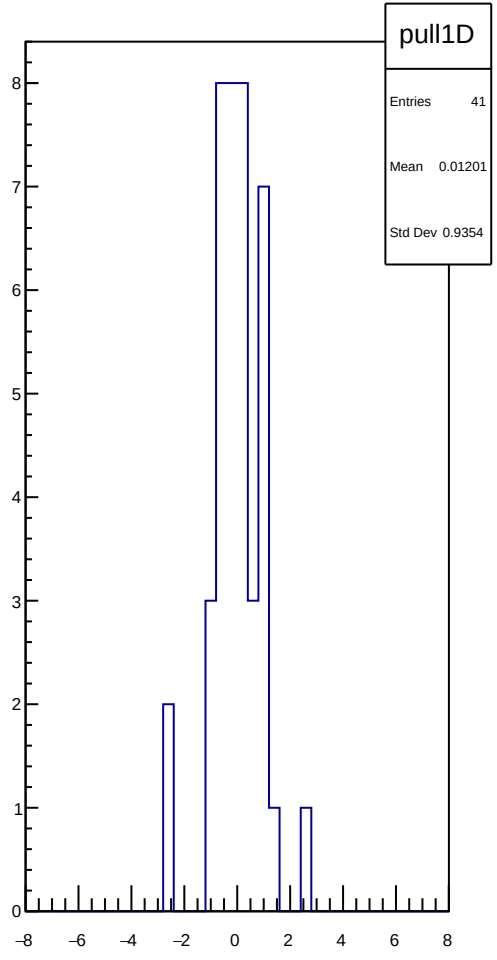

dit_asym_us_avg_rms vs run
χ² / ndf 1056 / 40
p0 820.9 ± 0.9095
980
960
940
920
900
880
860
840
820
800
780
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

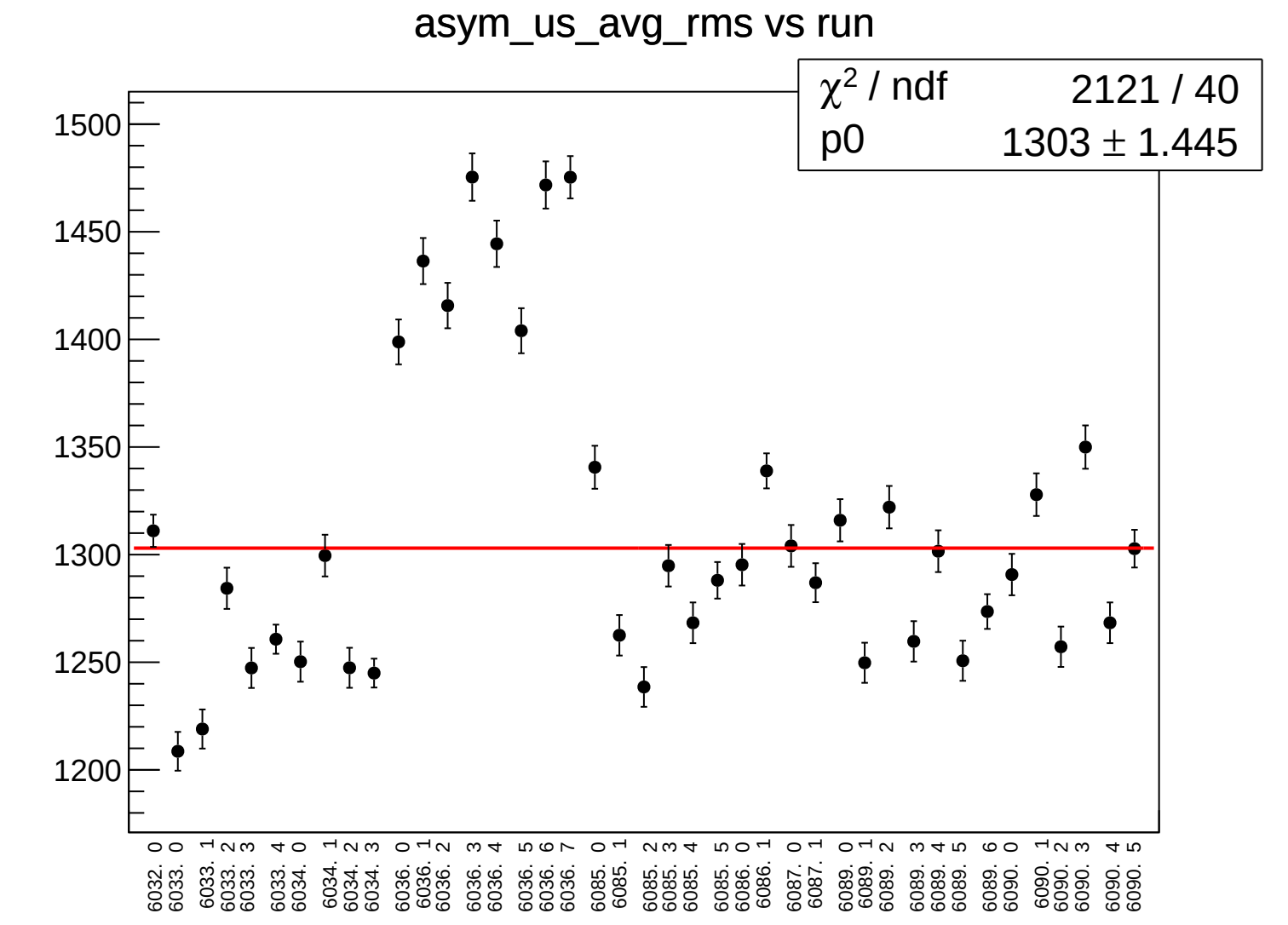

asym_us_avg_correction_mean vs run
χ² / ndf 30.91 / 40
p0 35.23 ± 1576
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −3.082
Std Dev 14.64
2
1
0
−1
−2

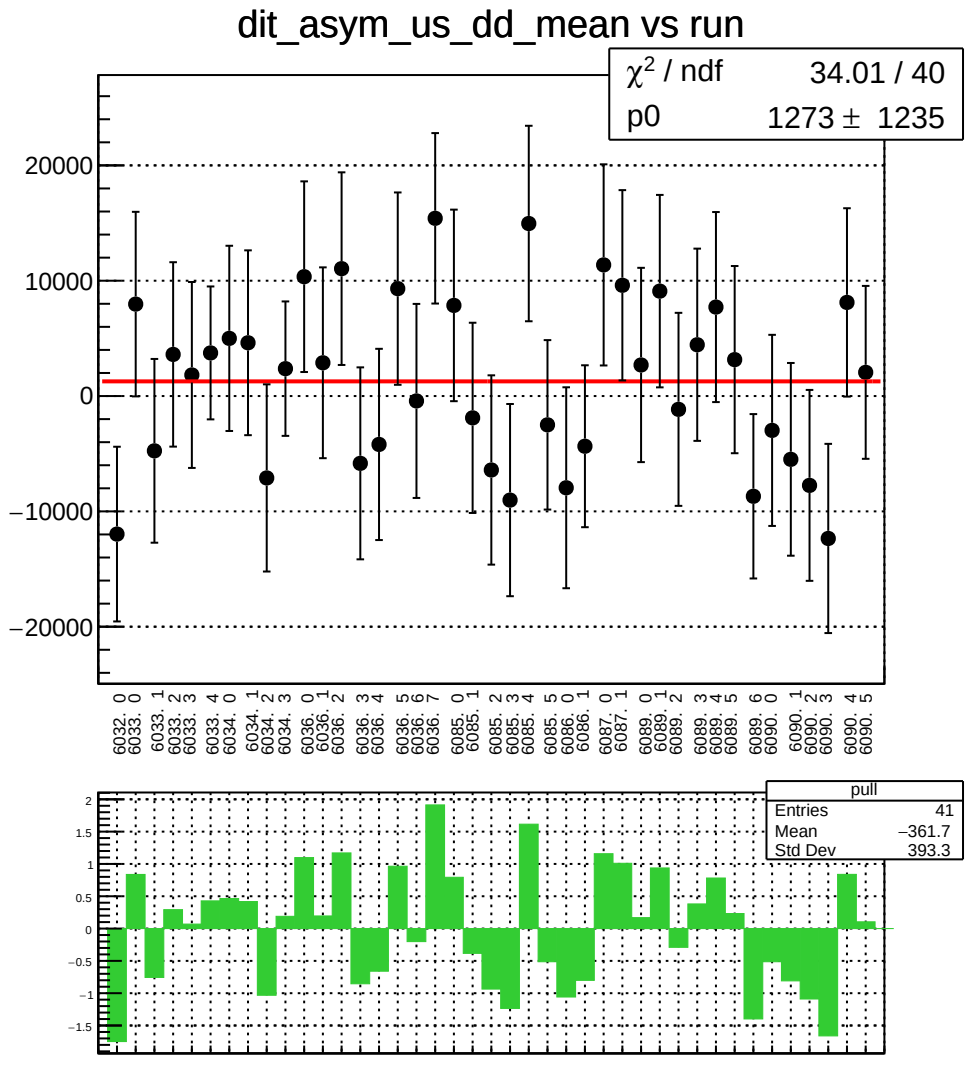

pull1D
Entries 41
Mean −0.0698
Std Dev 0.8655
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

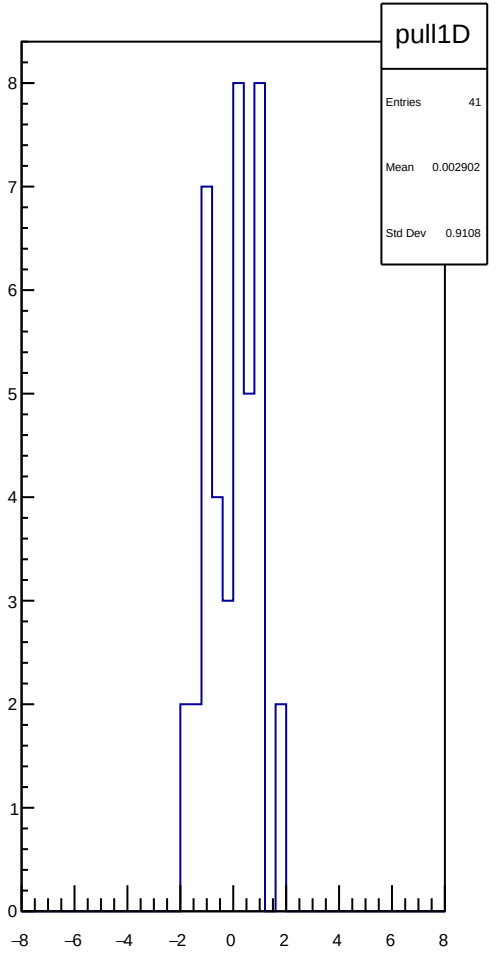

asym_us_avg_correction_rms vs run
χ² / ndf 2.885e+04 / 40
p0 988.3 ± 1.114
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

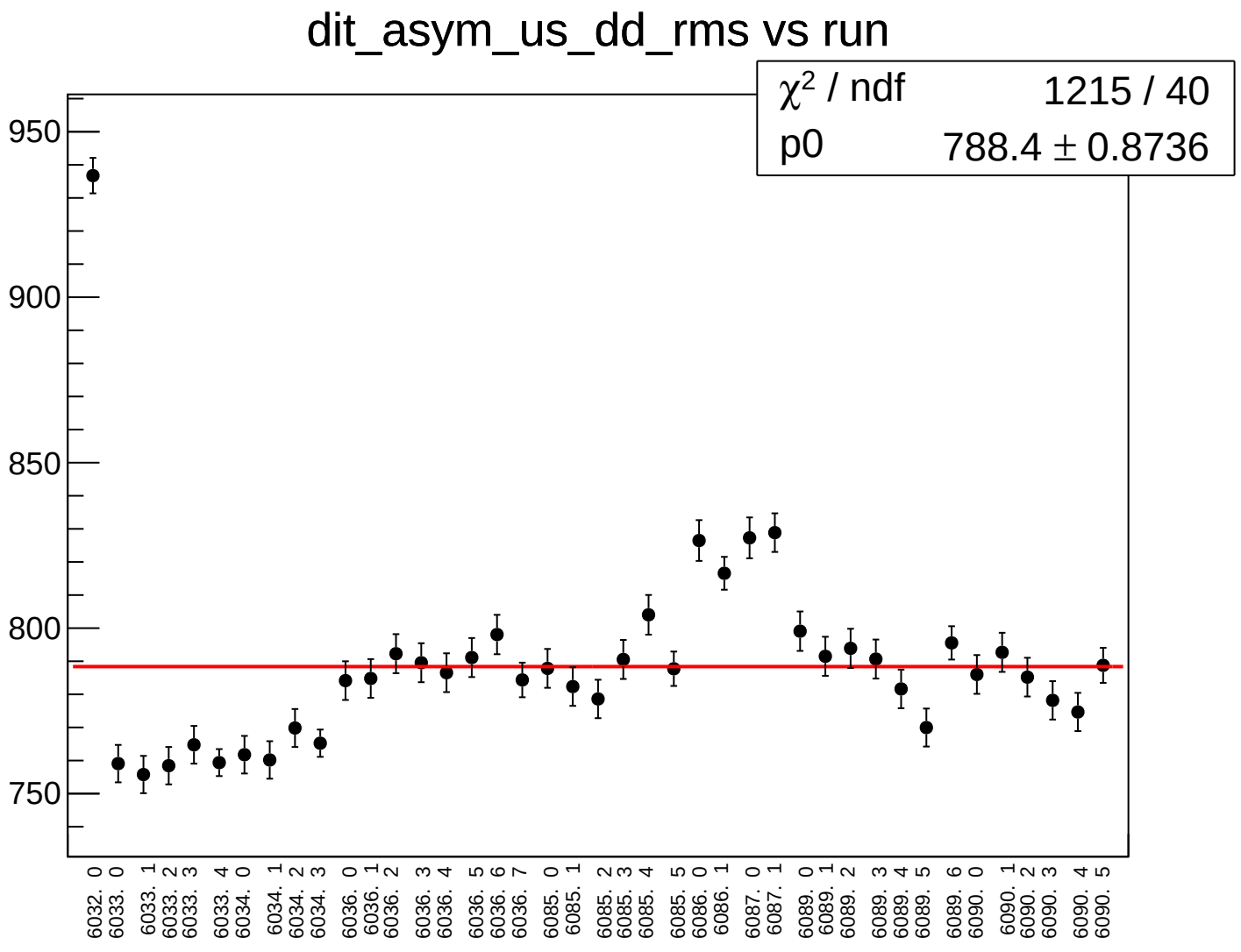

asym_us_avg_mean vs run
χ² / ndf 35.88 / 40
p0 −1279 ± 2043
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −18.48
Std Dev 28.04
3
2
1
0
−1
−2

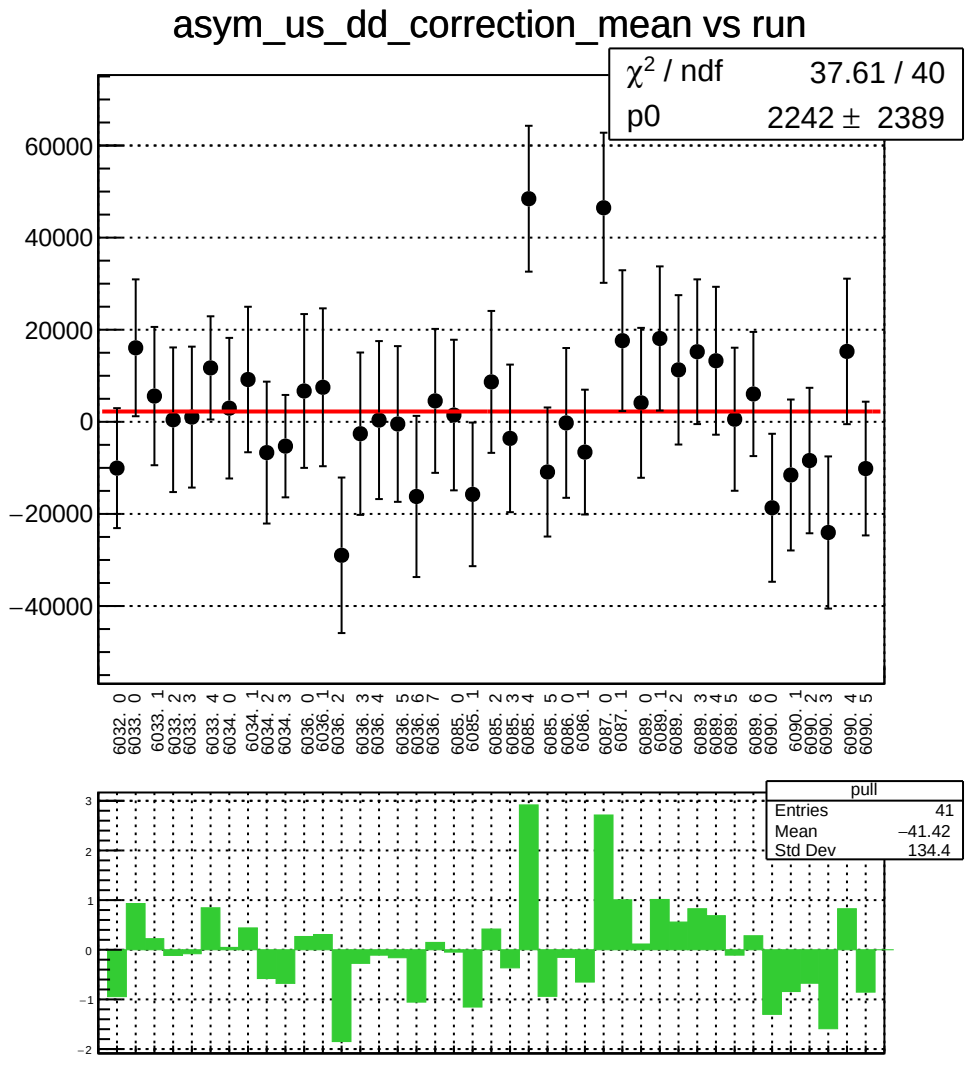

pull1D
Entries 41
Mean 0.01201
Std Dev 0.9354
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

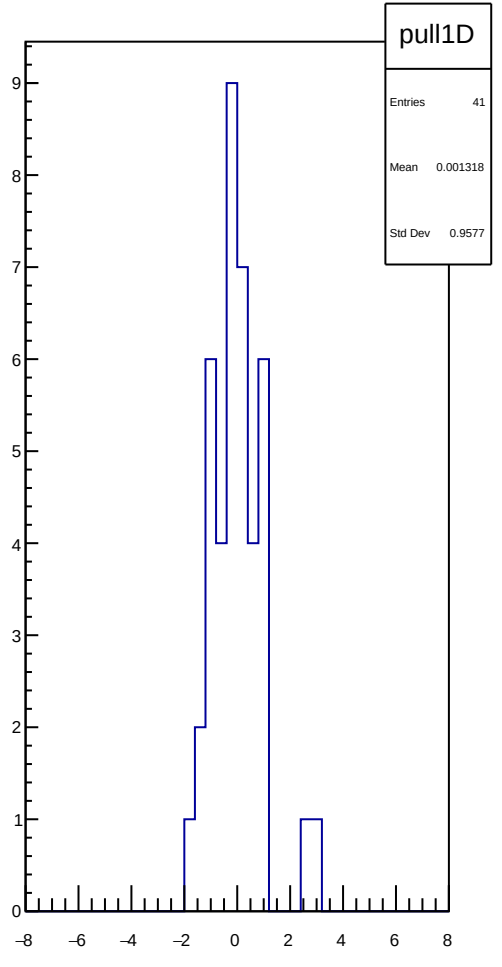

asym_us_avg_rms vs run
χ² / ndf 2121 / 40
p0 1303 ± 1.445
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

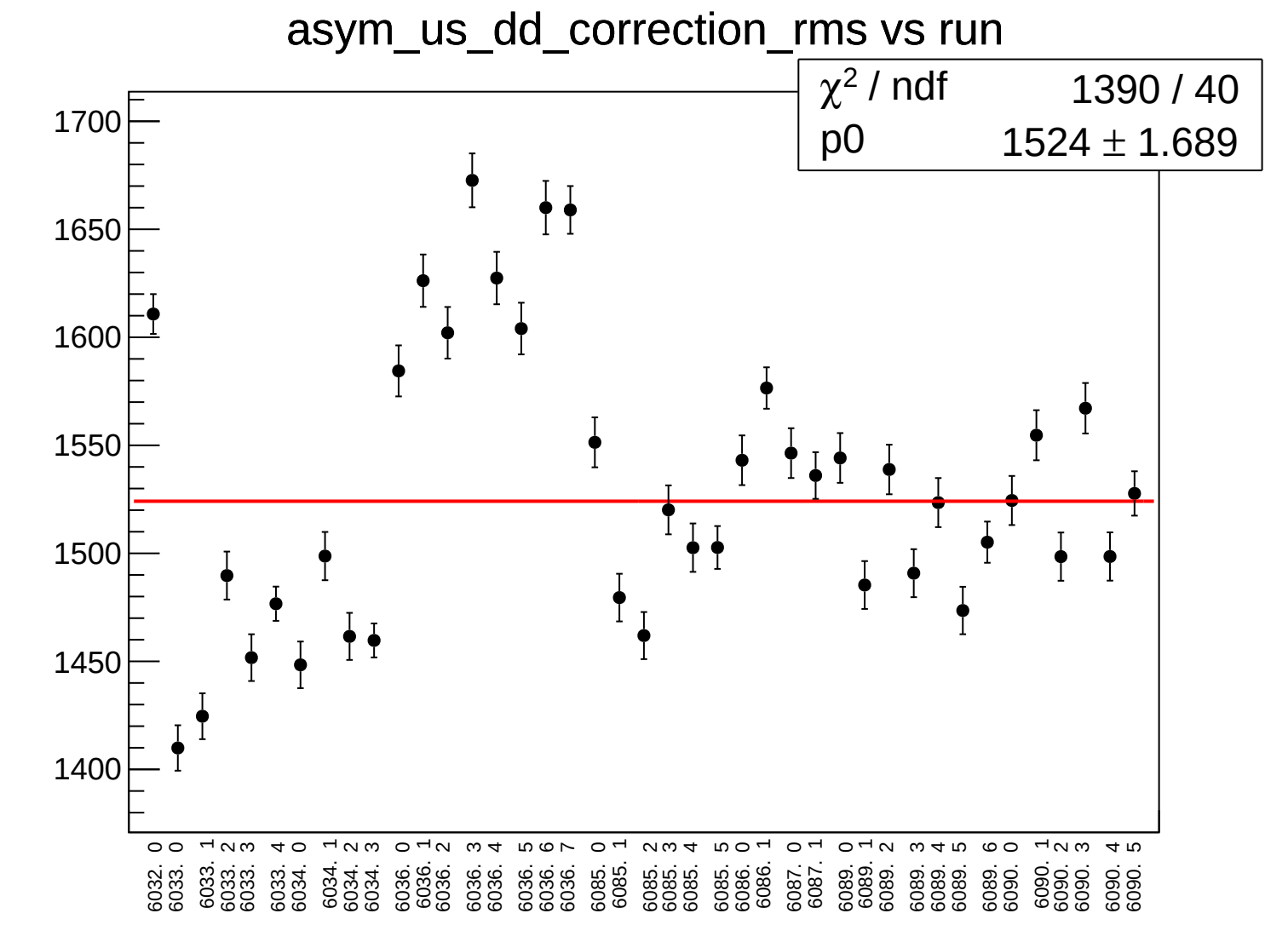

dit_asym_us_dd_mean vs run
χ² / ndf 34.01 / 40
p0 1273 ± 1235
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −361.7
Std Dev 393.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

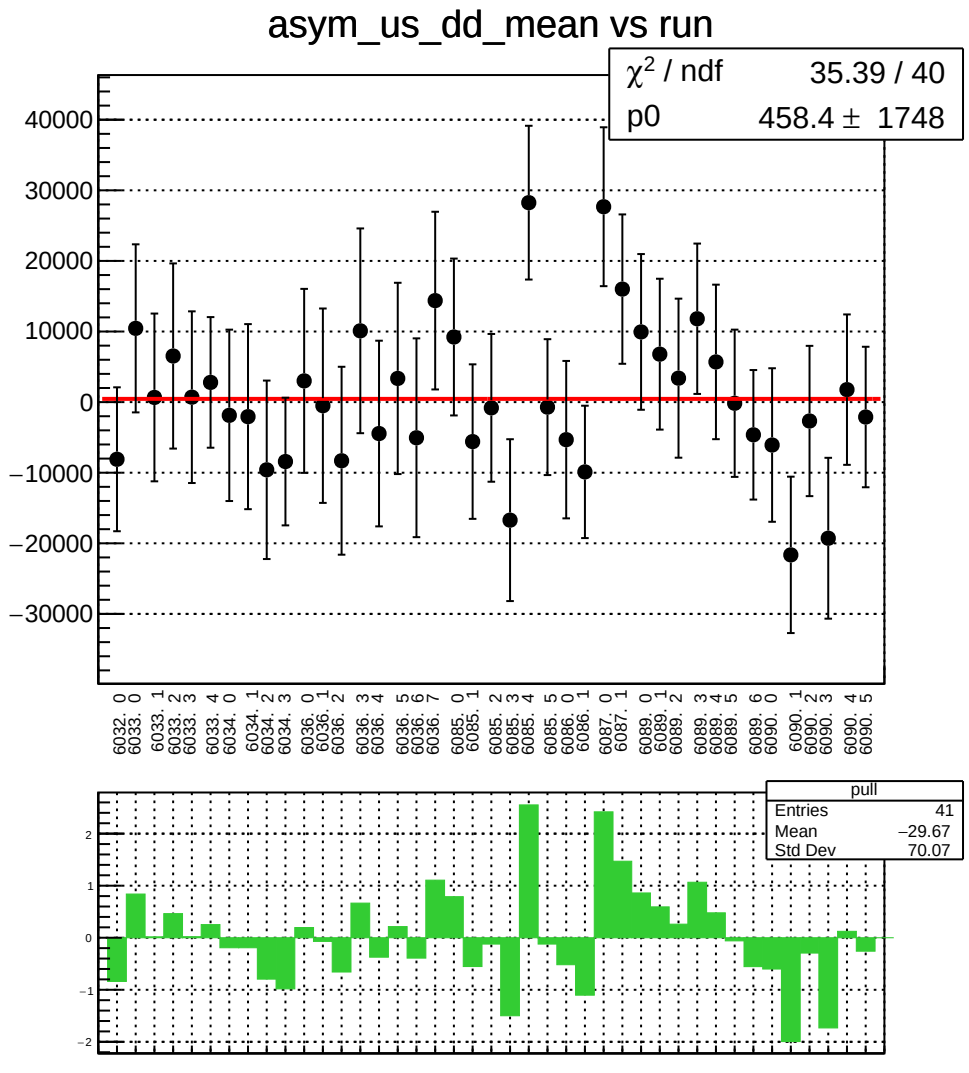

pull1D
Entries 41
Mean 0.002902
Std Dev 0.9108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

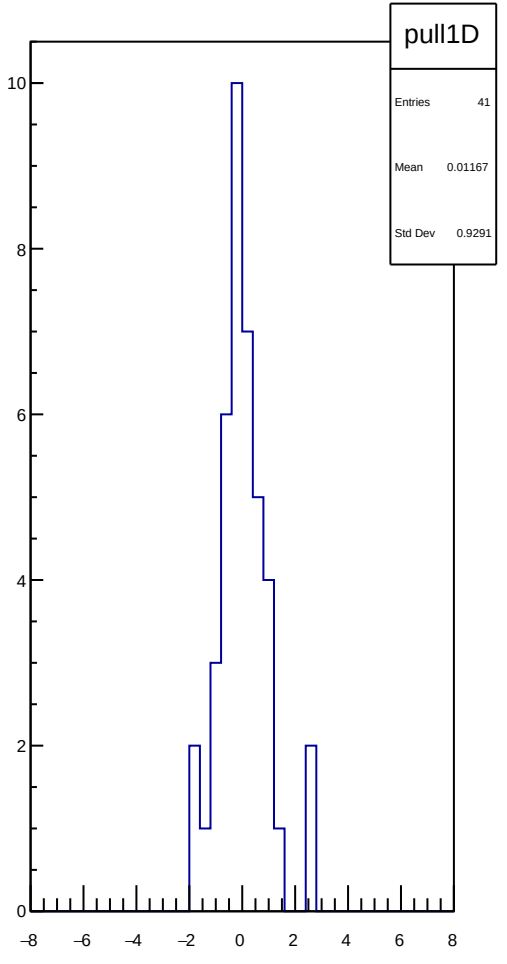

dit_asym_us_dd_rms vs run
χ² / ndf 1215 / 40
p0 788.4 ± 0.8736
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

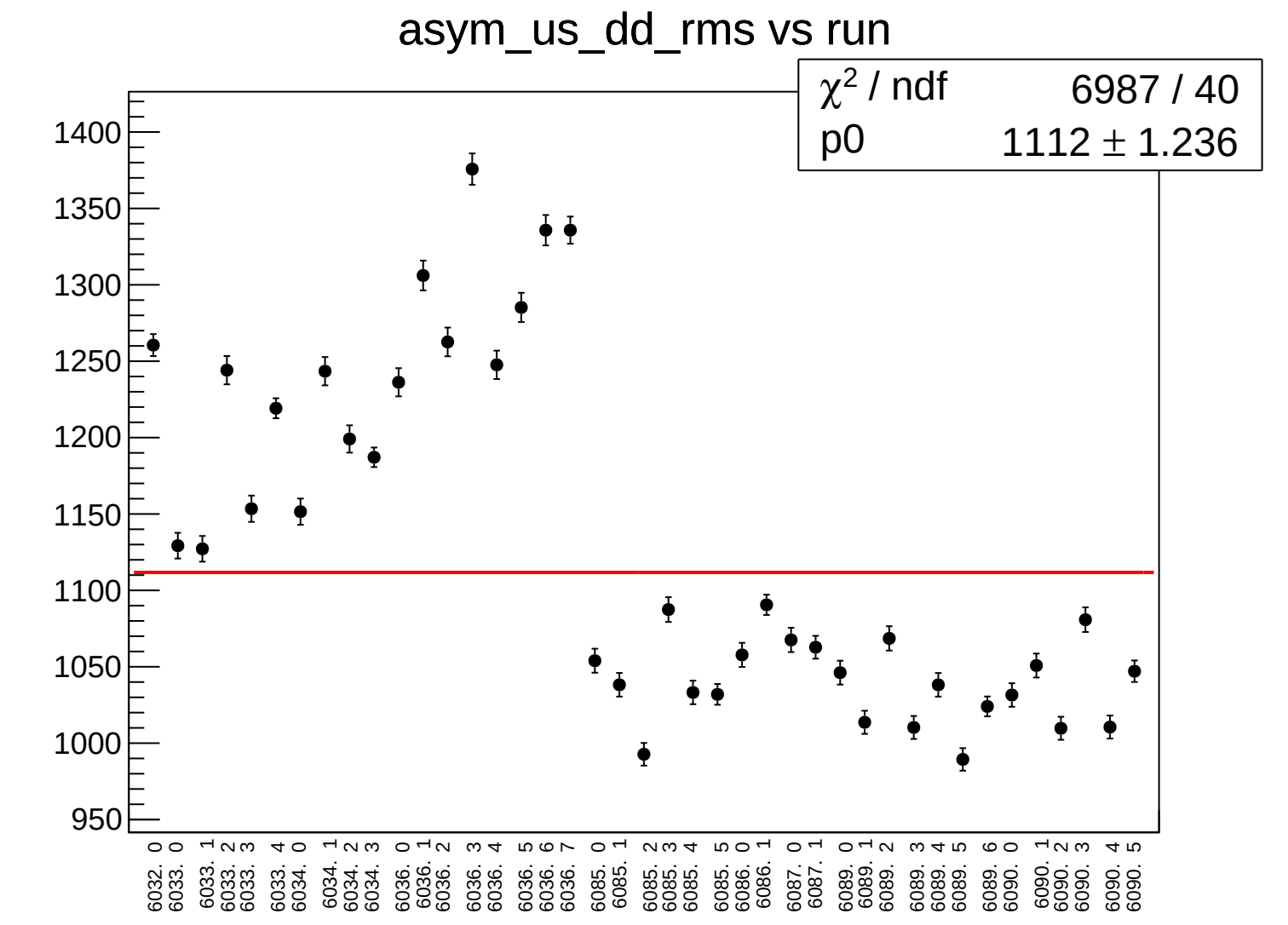

asym_us_dd_correction_mean vs run
χ² / ndf 37.61 / 40
p0 2242 ± 2389
pull
Entries 41
Mean −41.42
Std Dev 134.4

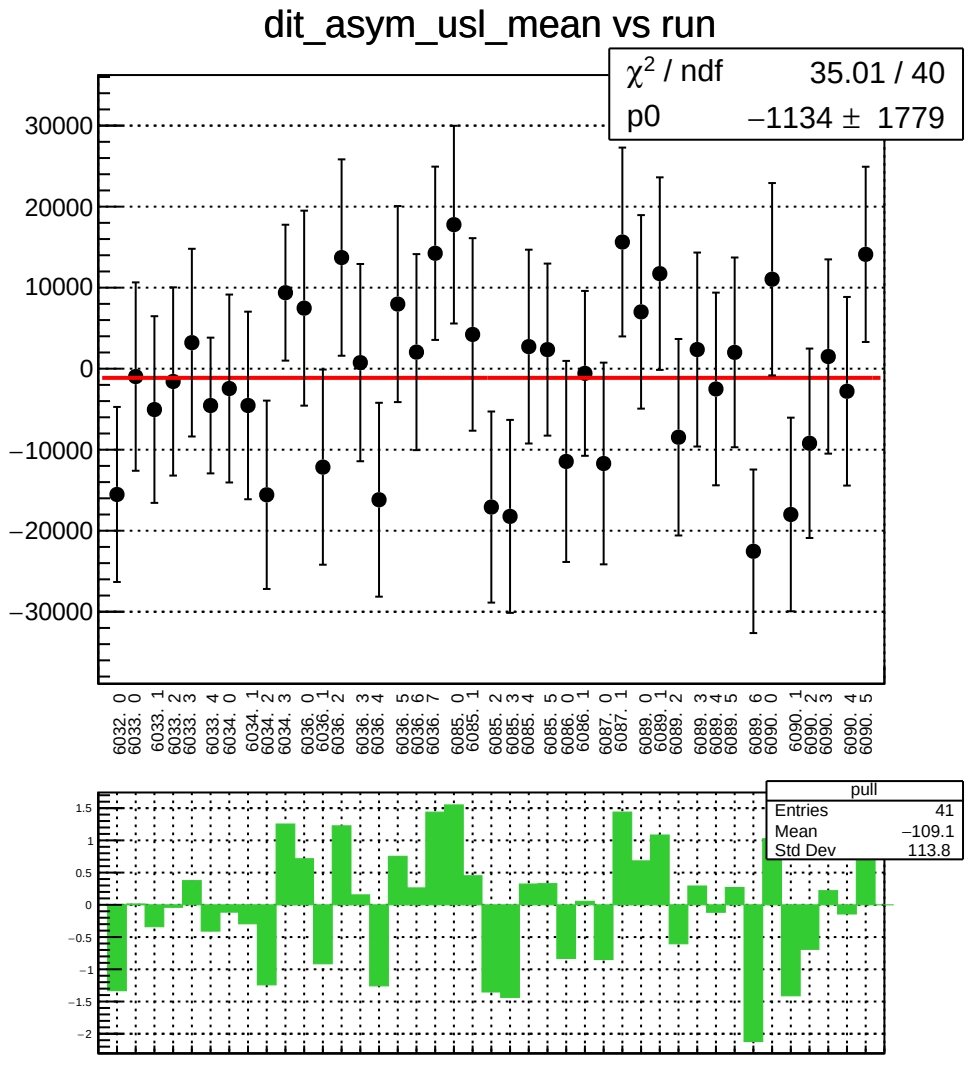

pull1D
Entries 41
Mean 0.001318
Std Dev 0.9577

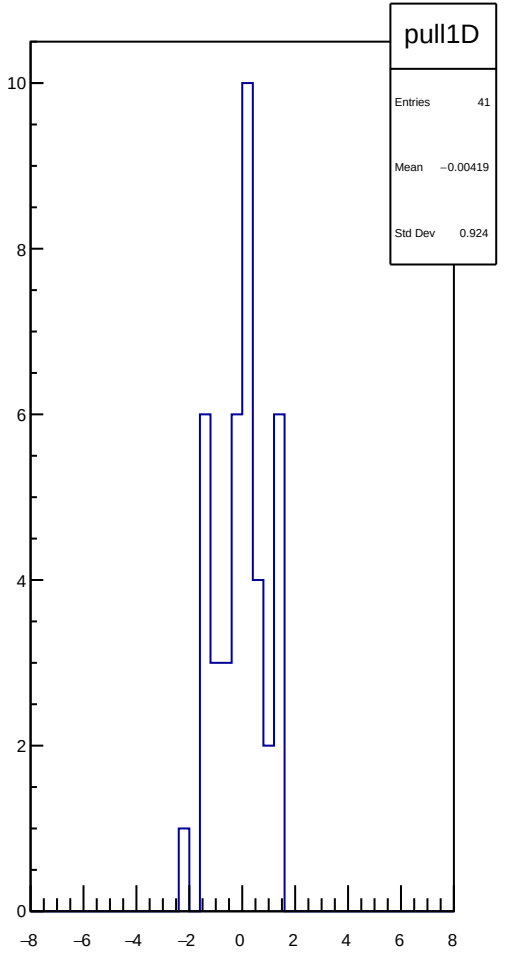

asym_us_dd_correction_rms vs run
χ² / ndf 1390 / 40
p0 1524 ± 1.689
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

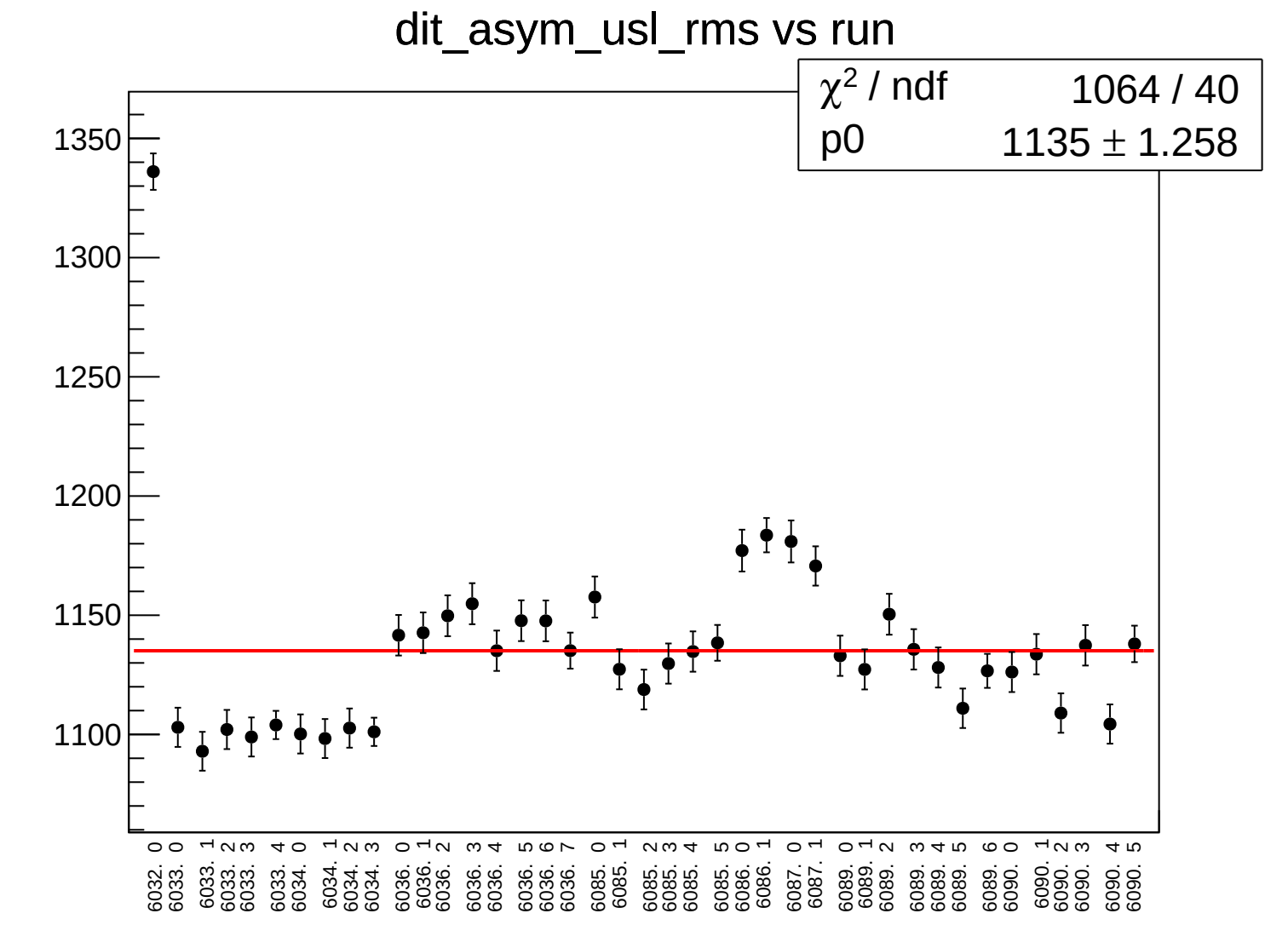

asym_us_dd_mean vs run
χ² / ndf 35.39 / 40
p0 458.4 ± 1748
pull
Entries 41
Mean −29.67
Std Dev 70.07

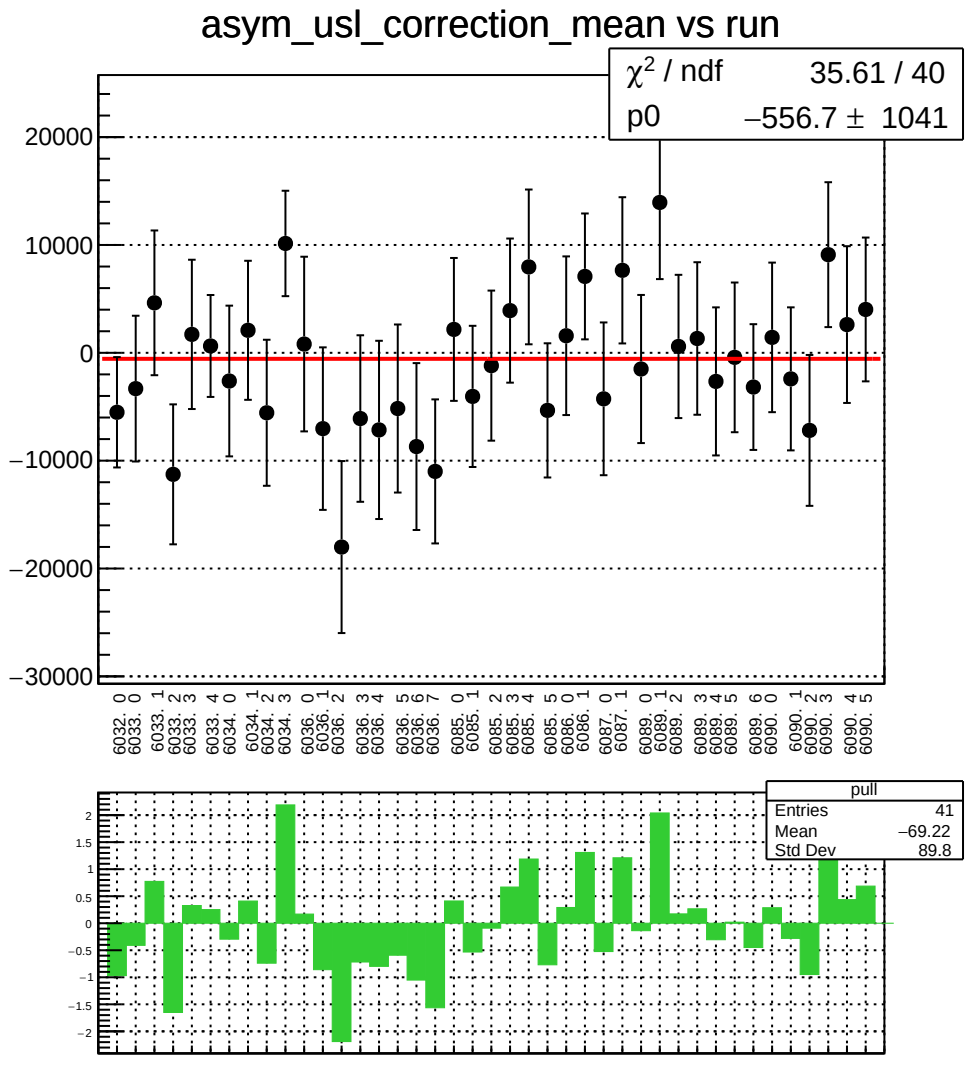

pull1D
Entries 41
Mean 0.01167
Std Dev 0.9291

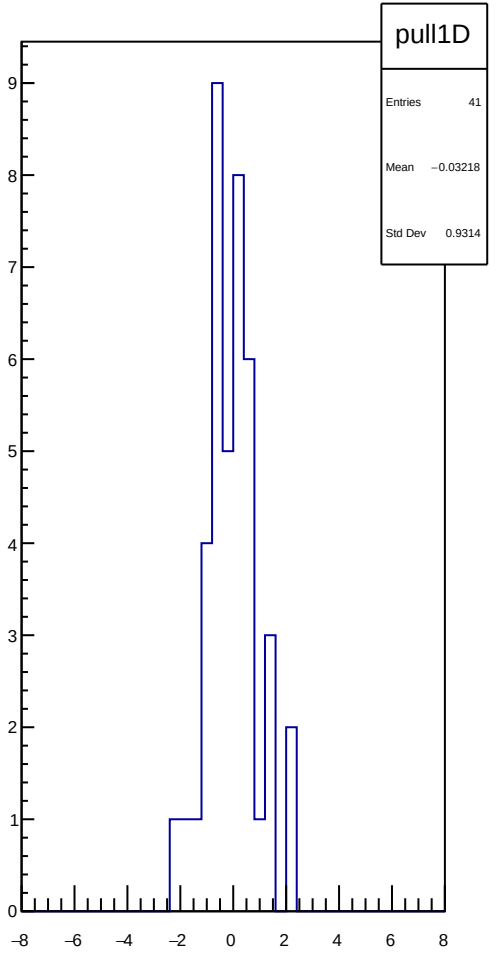

asym_us_dd_rms vs run
χ² / ndf 6987 / 40
p0 1112 ± 1.236
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

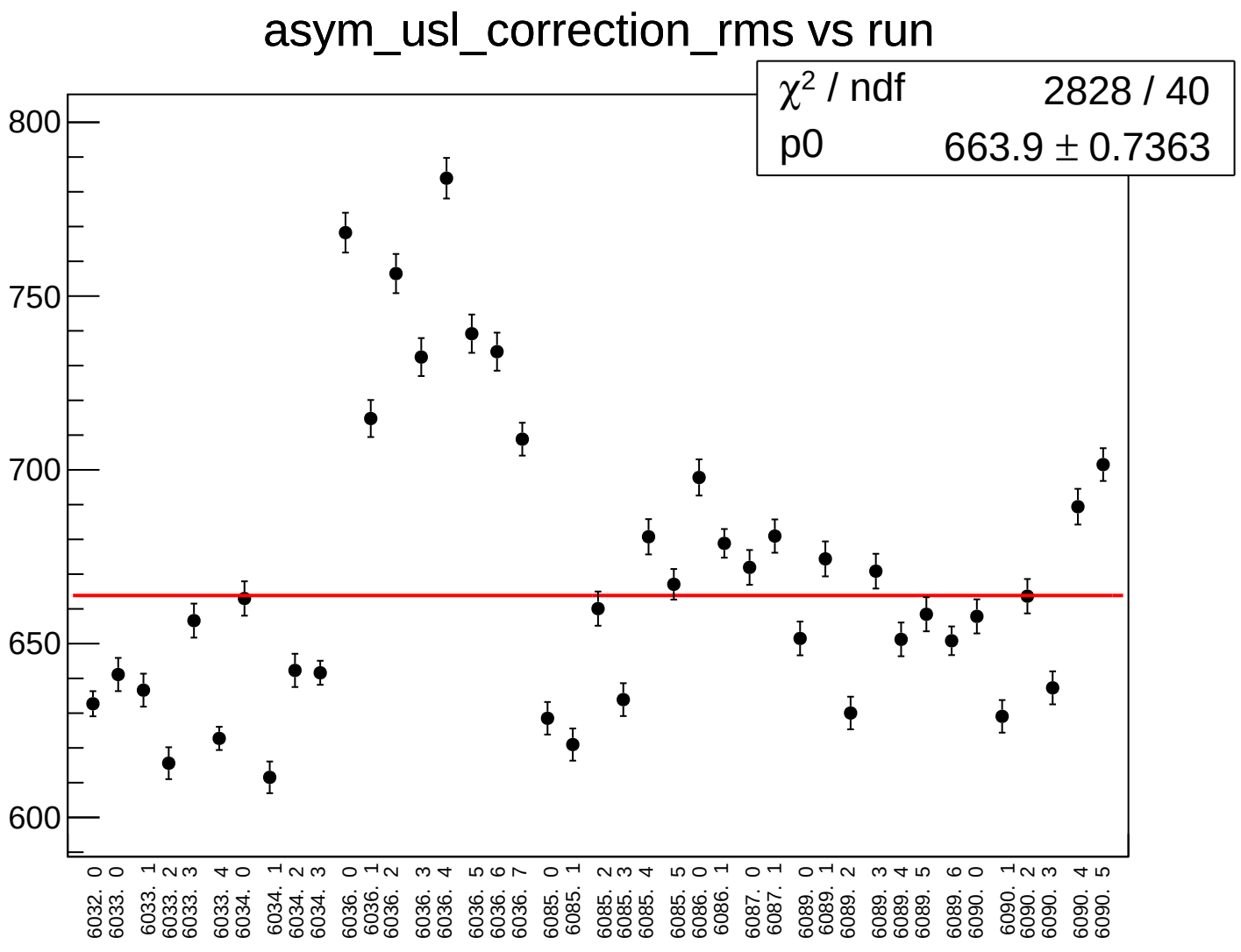

dit_asym_usl_mean vs run
χ² / ndf 35.01 / 40
p0 −1134 ± 1779
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −109.1
Std Dev 113.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

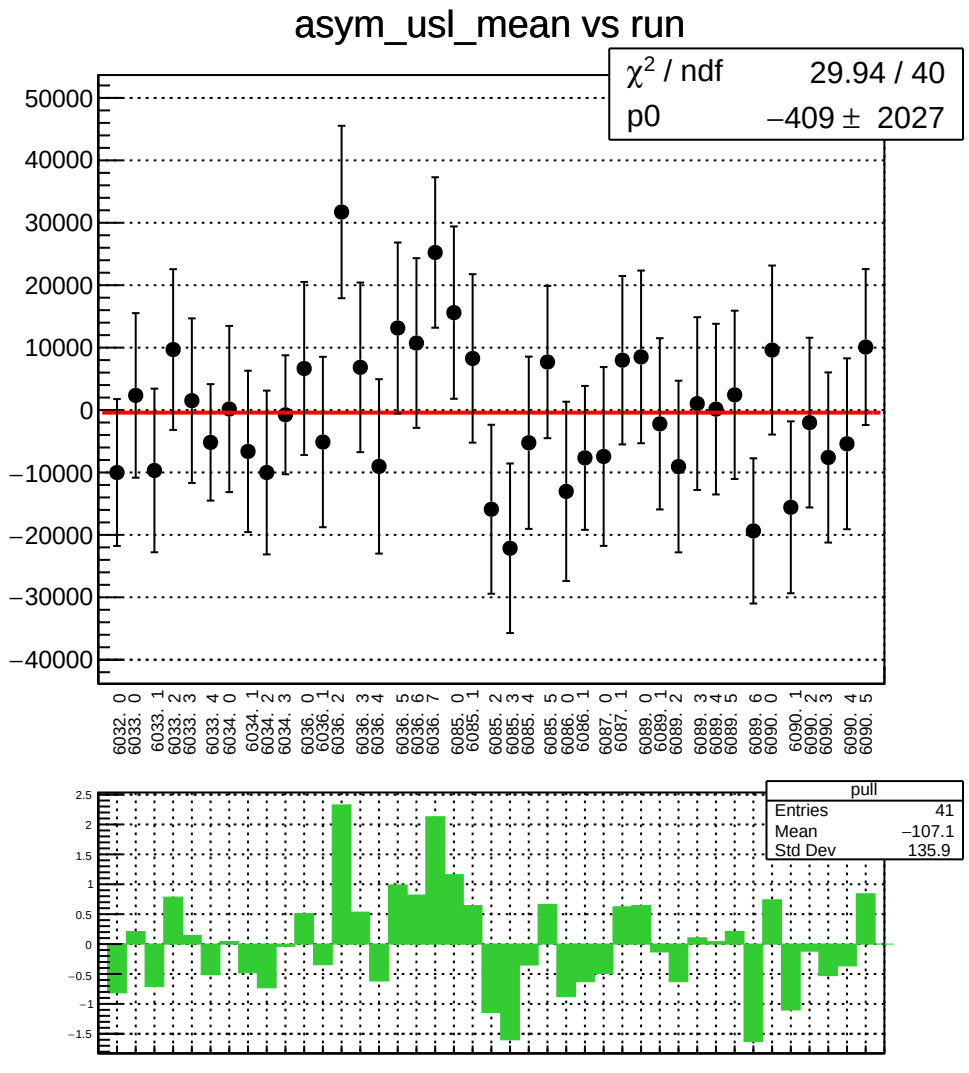

pull1D
Entries 41
Mean −0.00419
Std Dev 0.924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

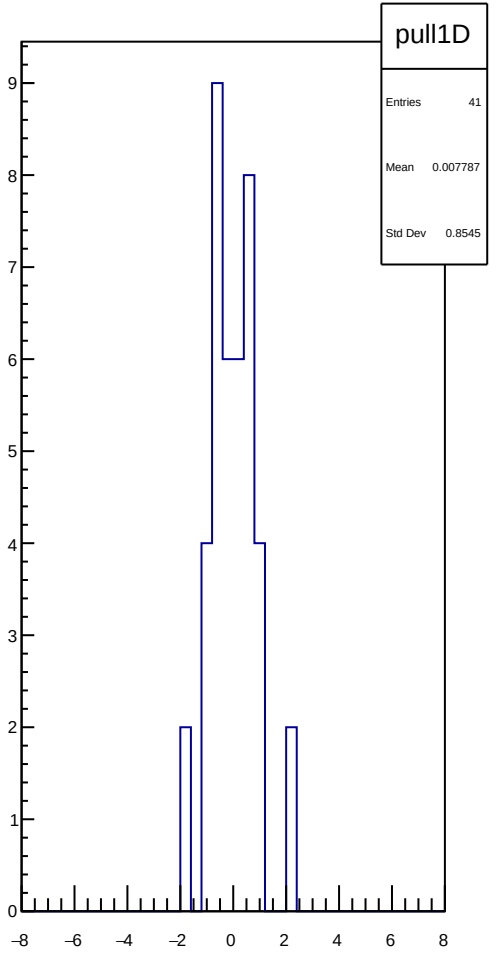

dit_asym_usl_rms vs run
χ² / ndf 1064 / 40
p0 1135 ± 1.258
1350
1300
1250
1200
1150
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

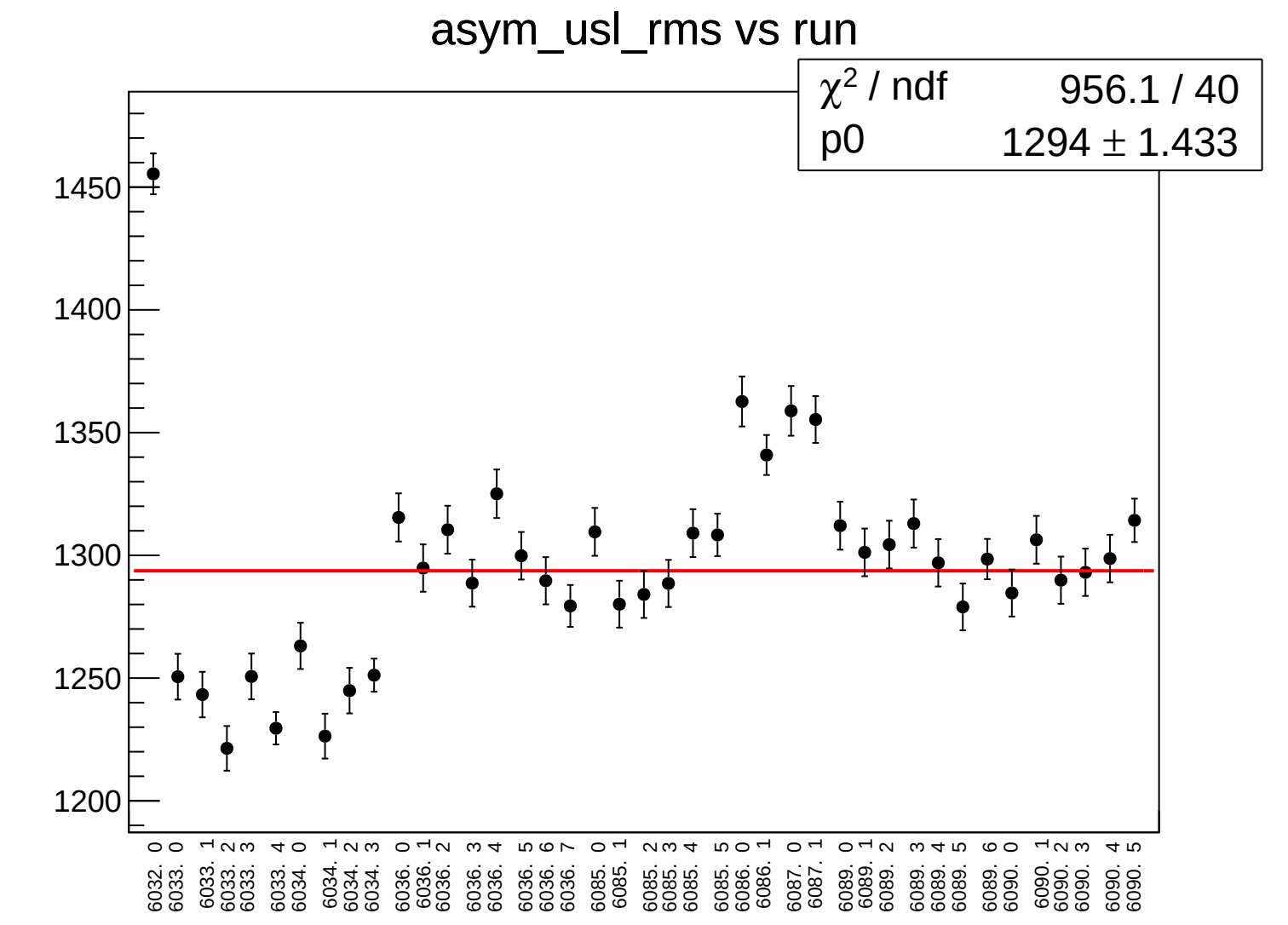

asym_usl_correction_mean vs run
χ² / ndf 35.61 / 40
p0 −556.7 ± 1041
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −69.22
Std Dev 89.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

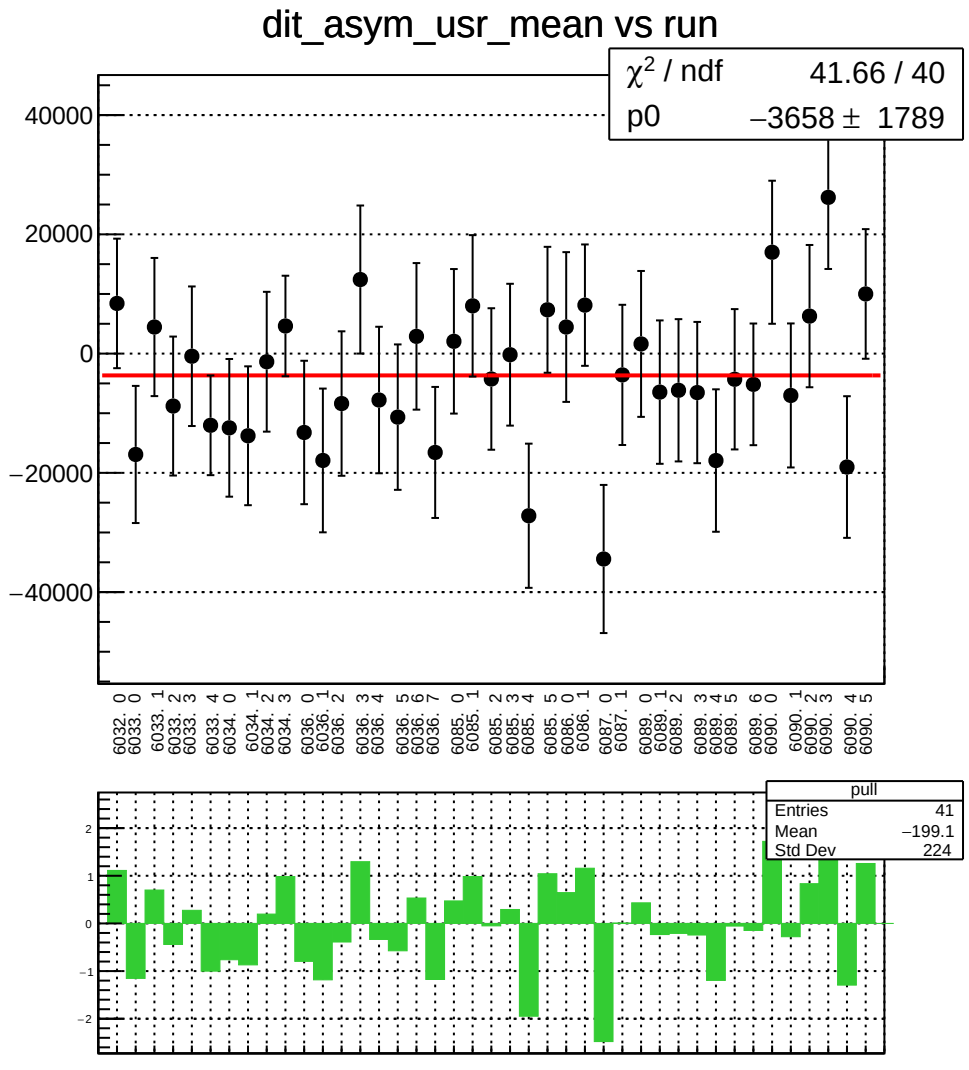

pull1D
Entries 41
Mean −0.03218
Std Dev 0.9314
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

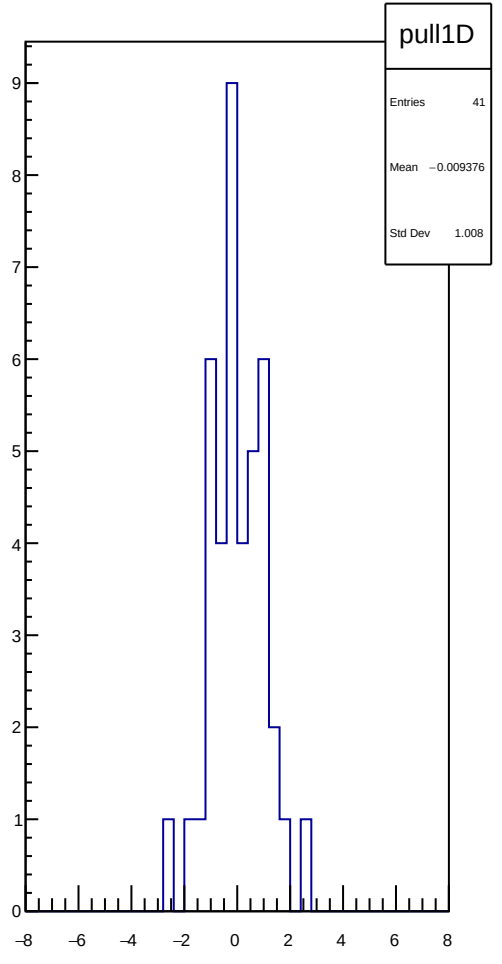

asym_usl_correction_rms vs run
χ² / ndf 2828 / 40
p0 663.9 ± 0.7363
800
750
700
650
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

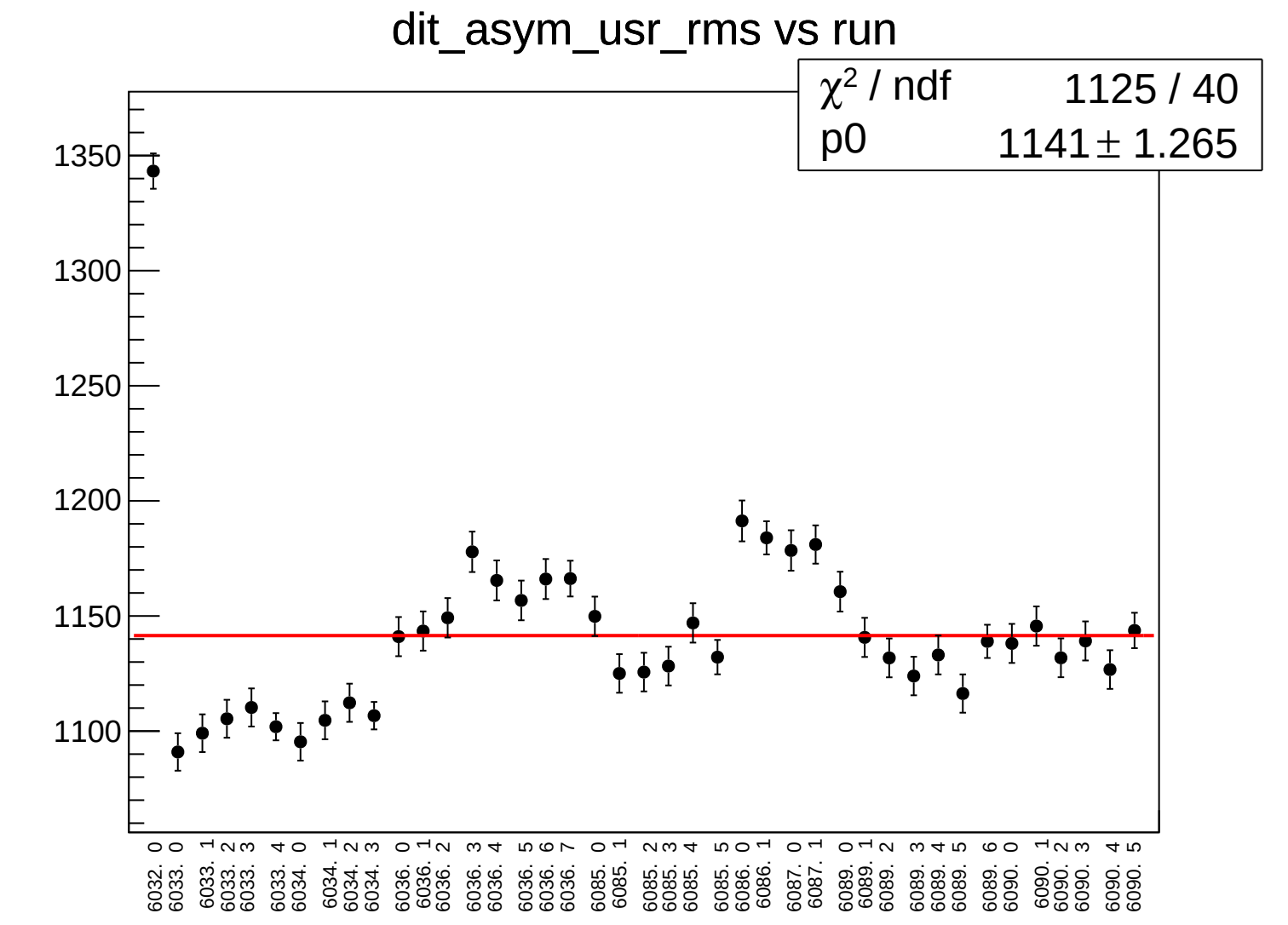

asym_usl_mean vs run
χ² / ndf 29.94 / 40
p0 −409 ± 2027
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −107.1
Std Dev 135.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

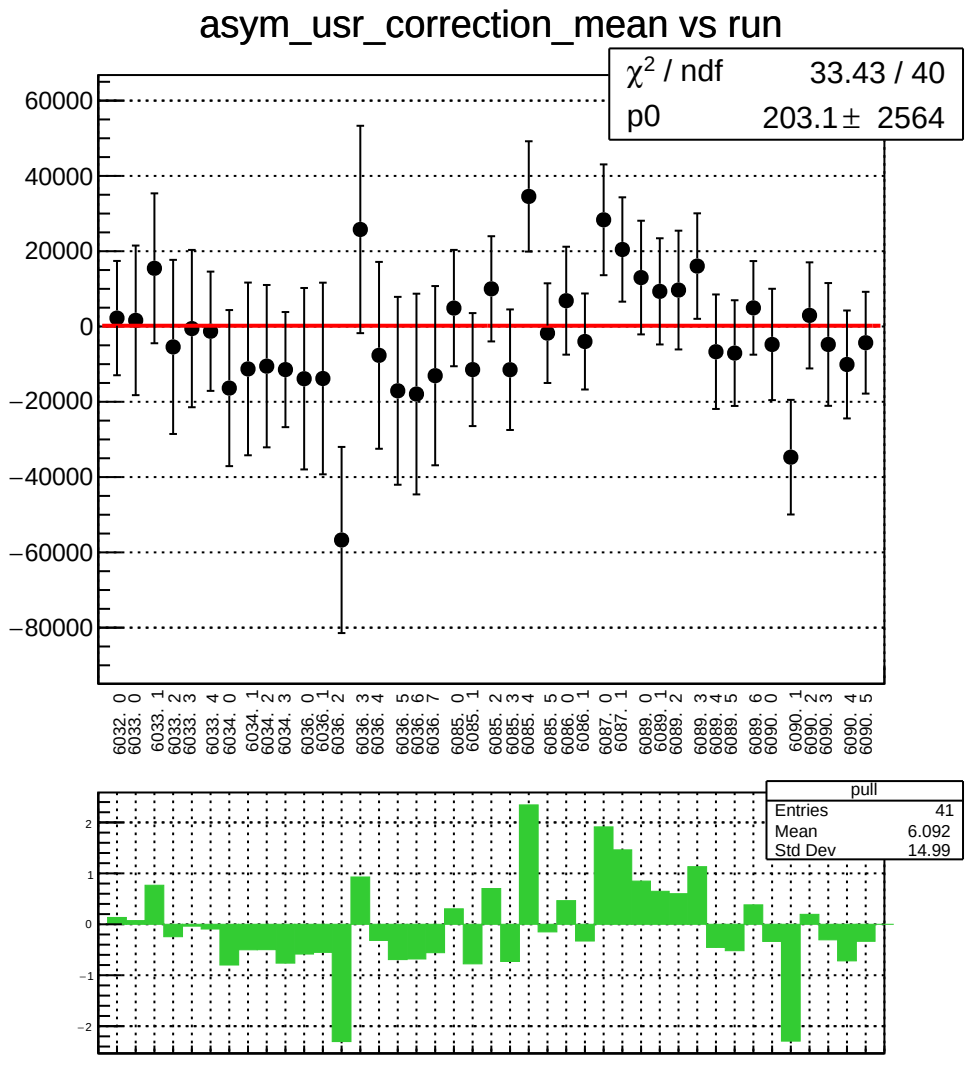

pull1D
Entries 41
Mean 0.007787
Std Dev 0.8545
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

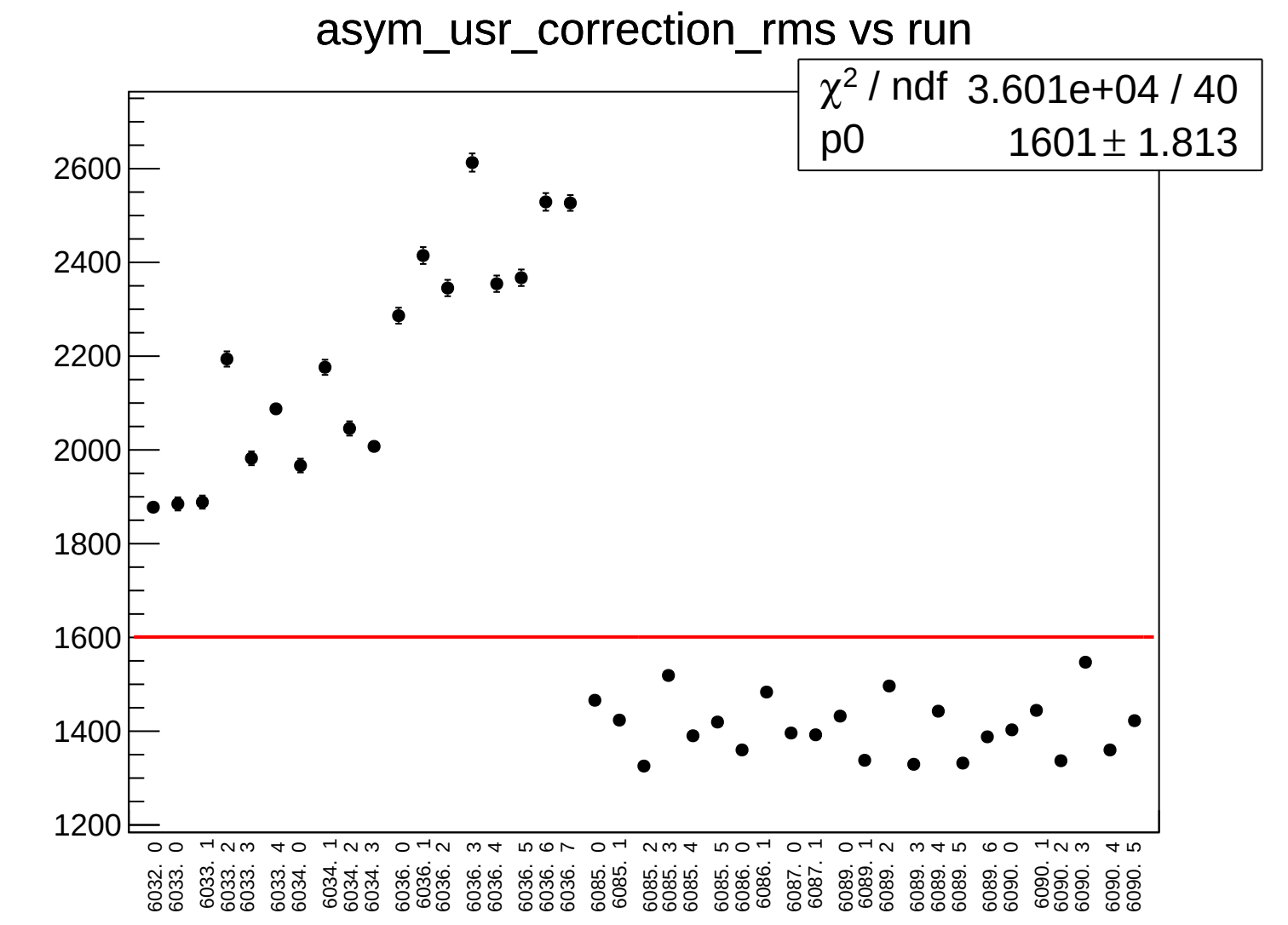

asym_usl_rms vs run
χ² / ndf 956.1 / 40
p0 1294 ± 1.433
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

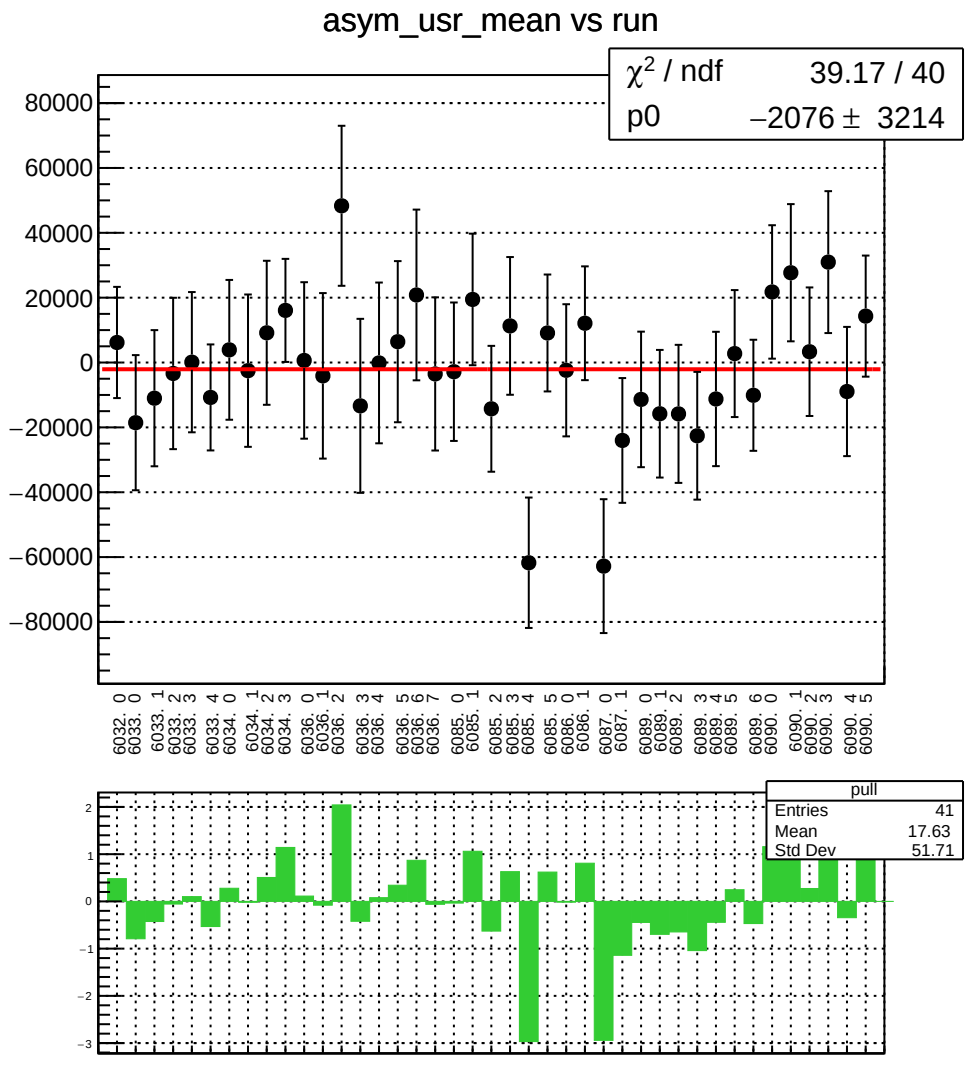

dit_asym_usr_mean vs run
χ^2 / ndf 41.66 / 40
p0 −3658 ± 1789
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −199.1
Std Dev 224
2
1
0
−1
−2

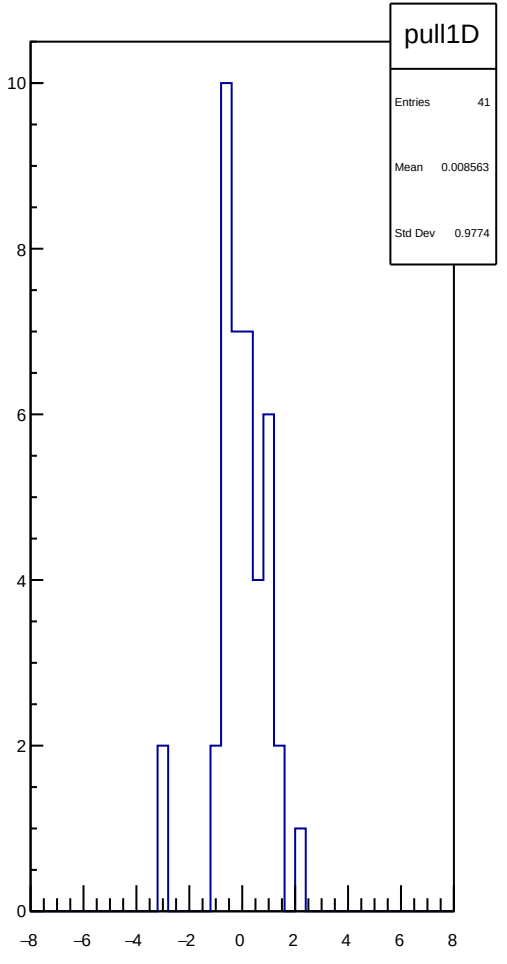

pull1D
Entries 41
Mean −0.009376
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

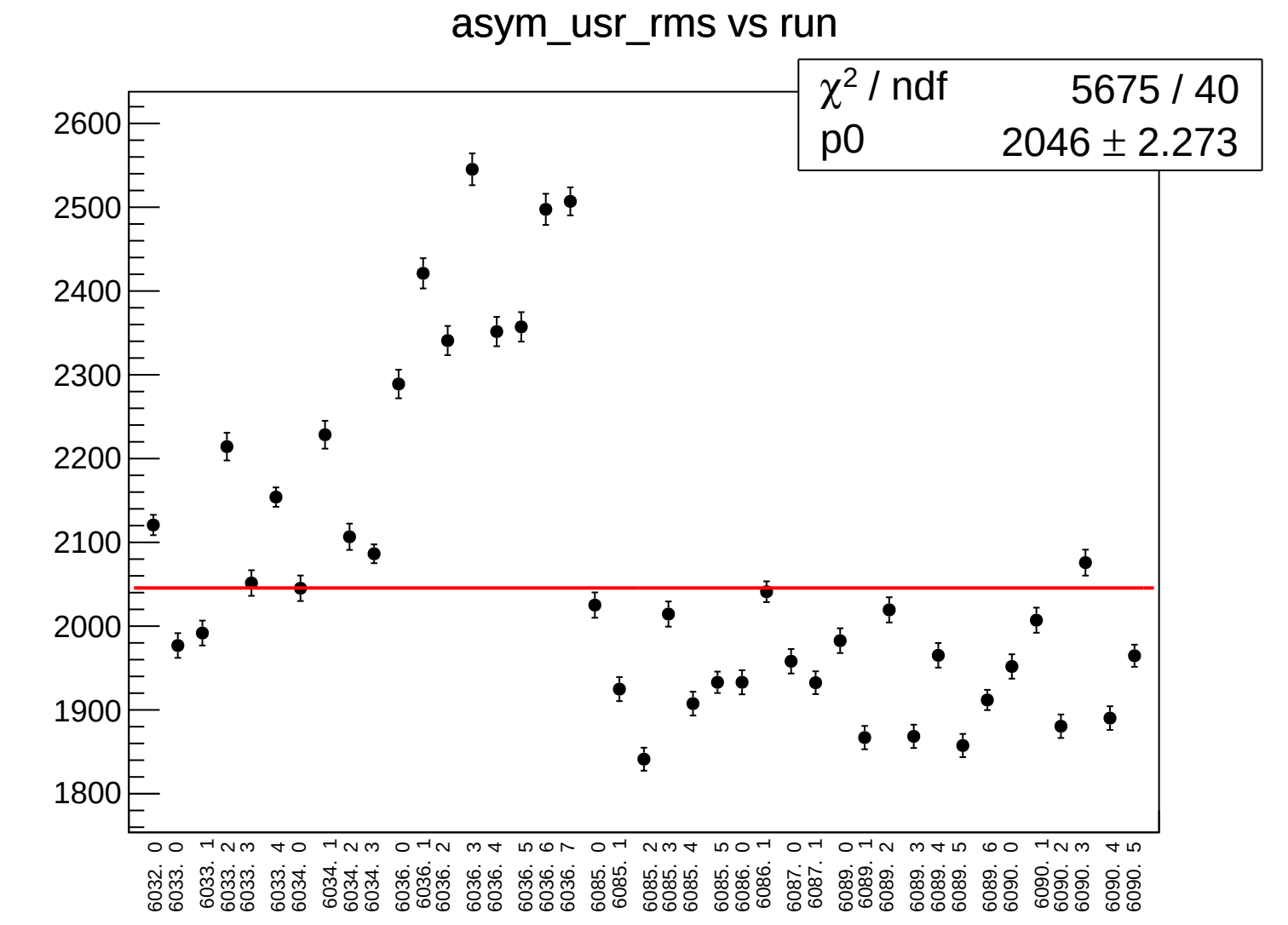

dit_asym_usr_rms vs run
χ² / ndf 1125 / 40
p0 1141 ± 1.265
1350
1300
1250
1200
1150
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

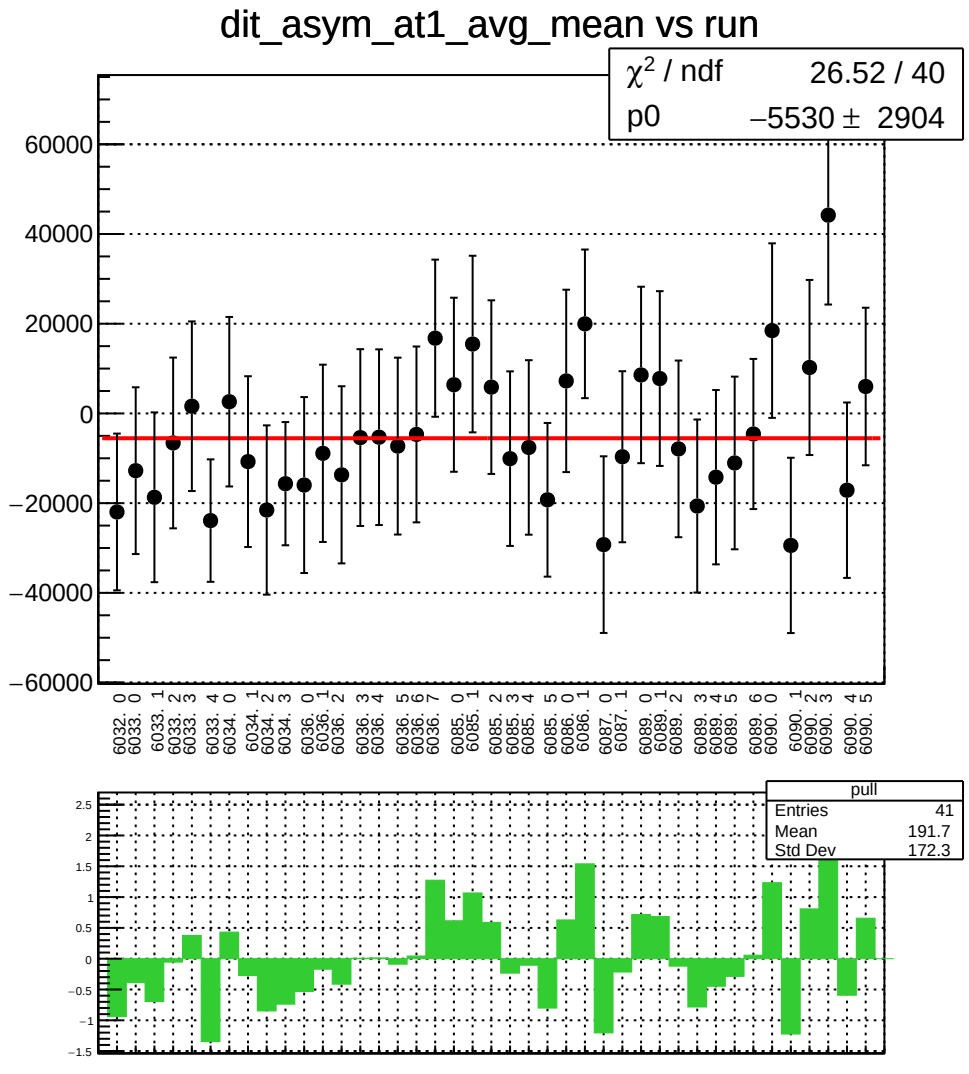

asym_usr_correction_mean vs run
χ² / ndf 33.43 / 40
p0 203.1 ± 2564
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 6.092
Std Dev 14.99
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.06498
Std Dev 0.9007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

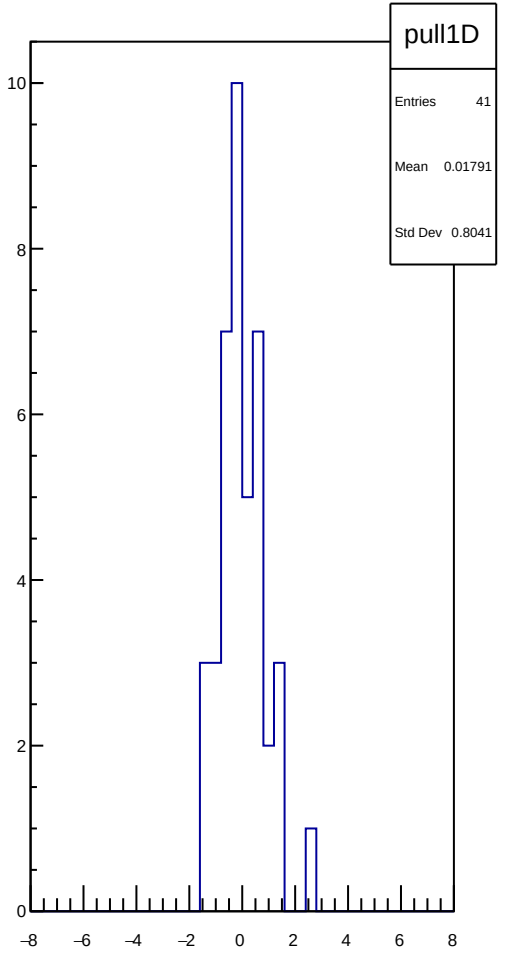

asym_usr_correction_rms vs run
χ² / ndf 3.601e+04 / 40
p0 1601 ± 1.813
2600
2400
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

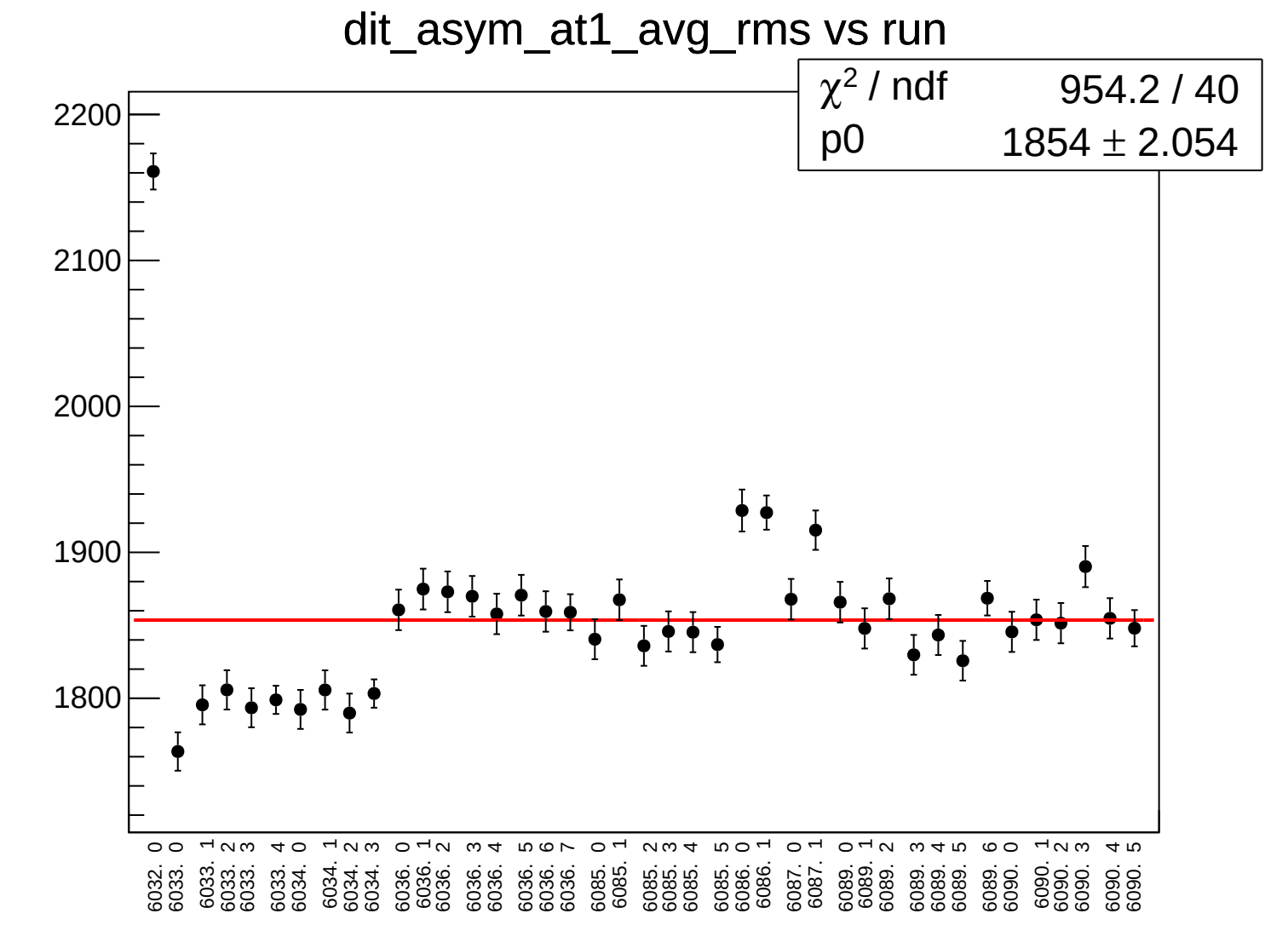

asym_usr_mean vs run
χ² / ndf 39.17 / 40
p0 −2076 ± 3214
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 17.63
Std Dev 51.71
2
1
0
−1
−2
−3

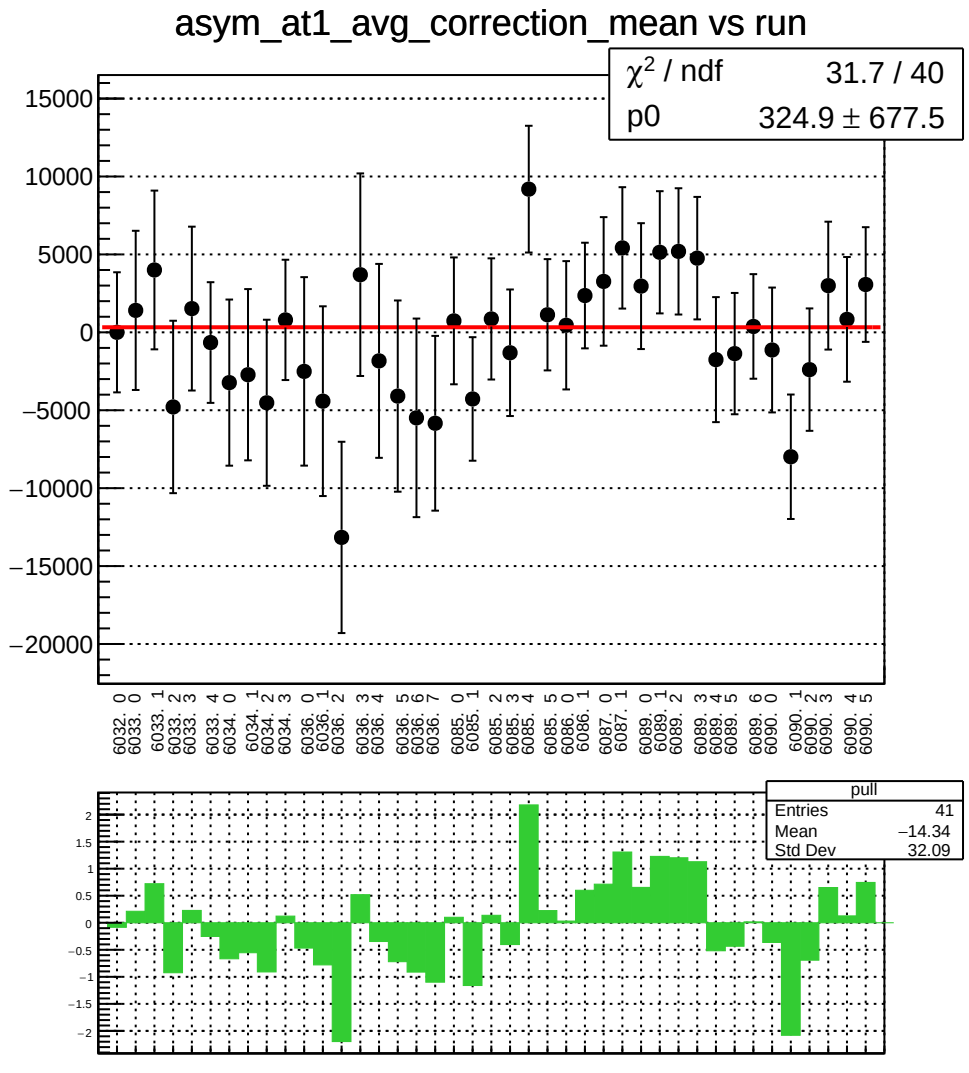

pull1D
Entries 41
Mean 0.008563
Std Dev 0.9774
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

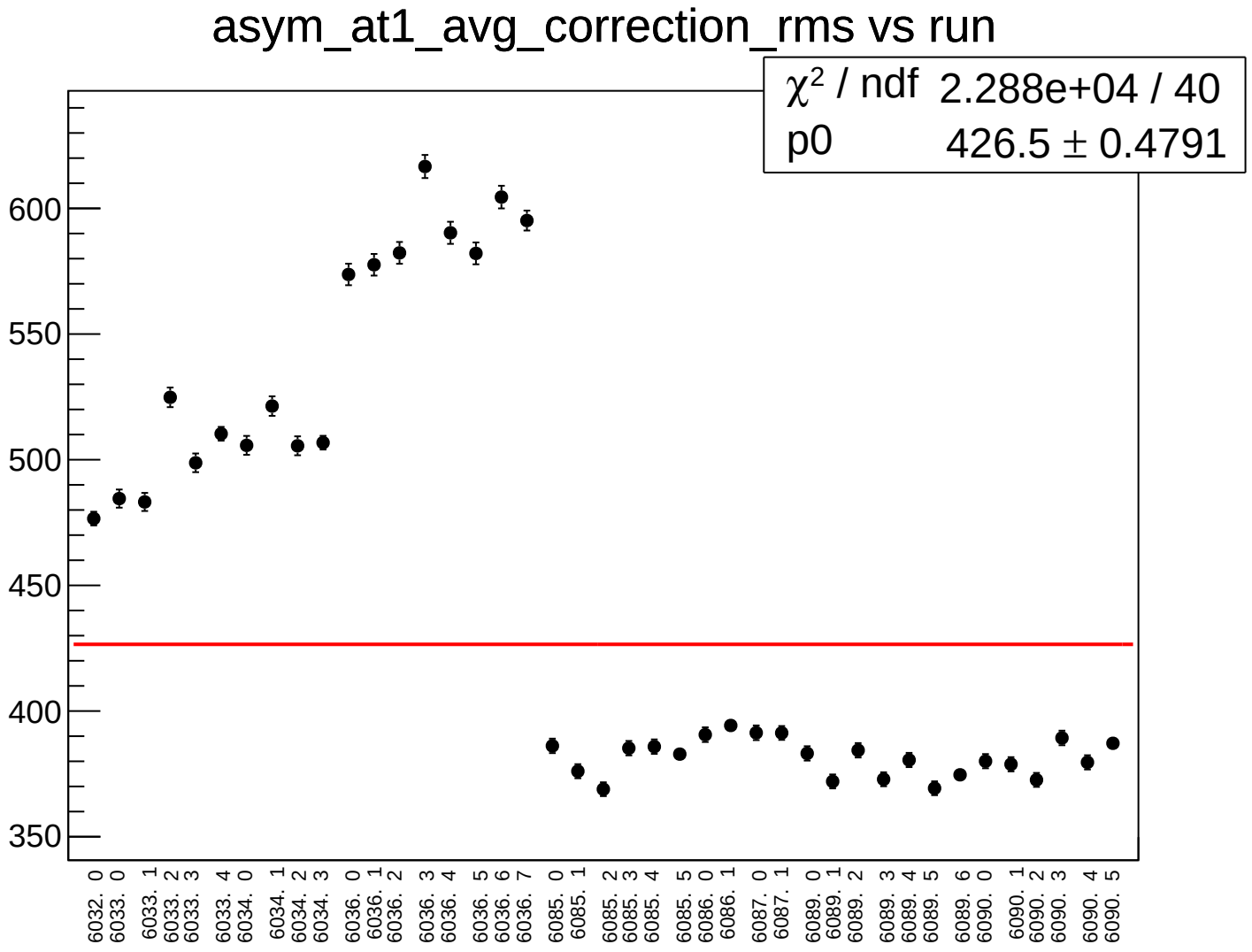

asym_usr_rms vs run
χ² / ndf 5675 / 40
p0 2046 ± 2.273
2600
2500
2400
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

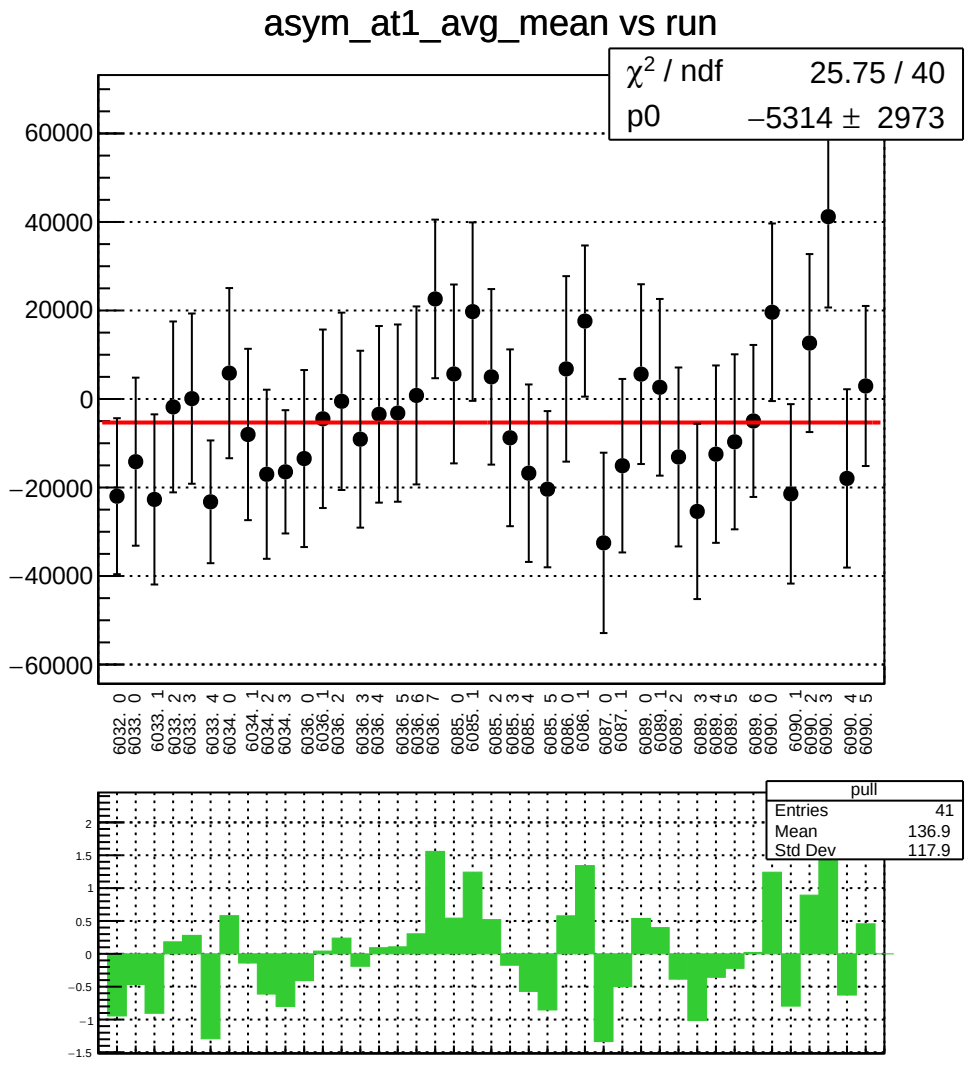

dit_asym_at1_avg_mean vs run
χ² / ndf 26.52 / 40
p0 −5530 ± 2904
pull
Entries 41
Mean 191.7
Std Dev 172.3

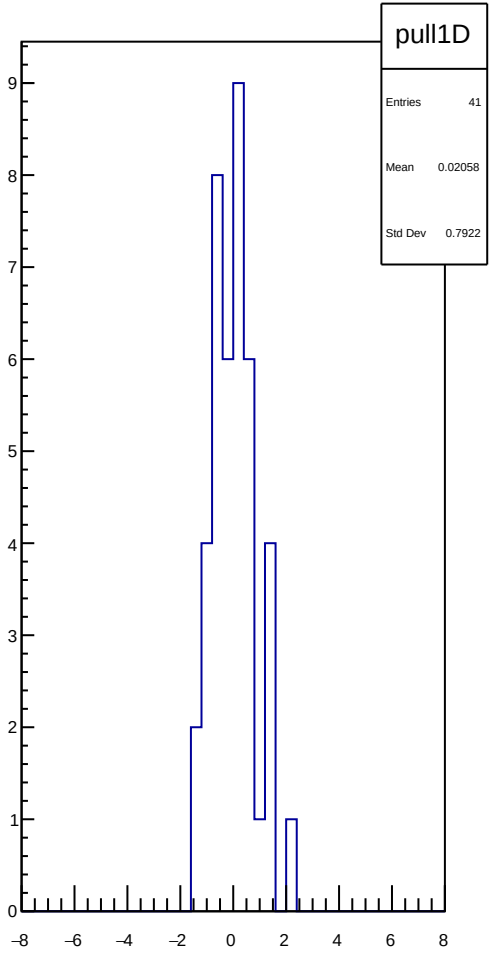

pull1D
Entries 41
Mean 0.01791
Std Dev 0.8041

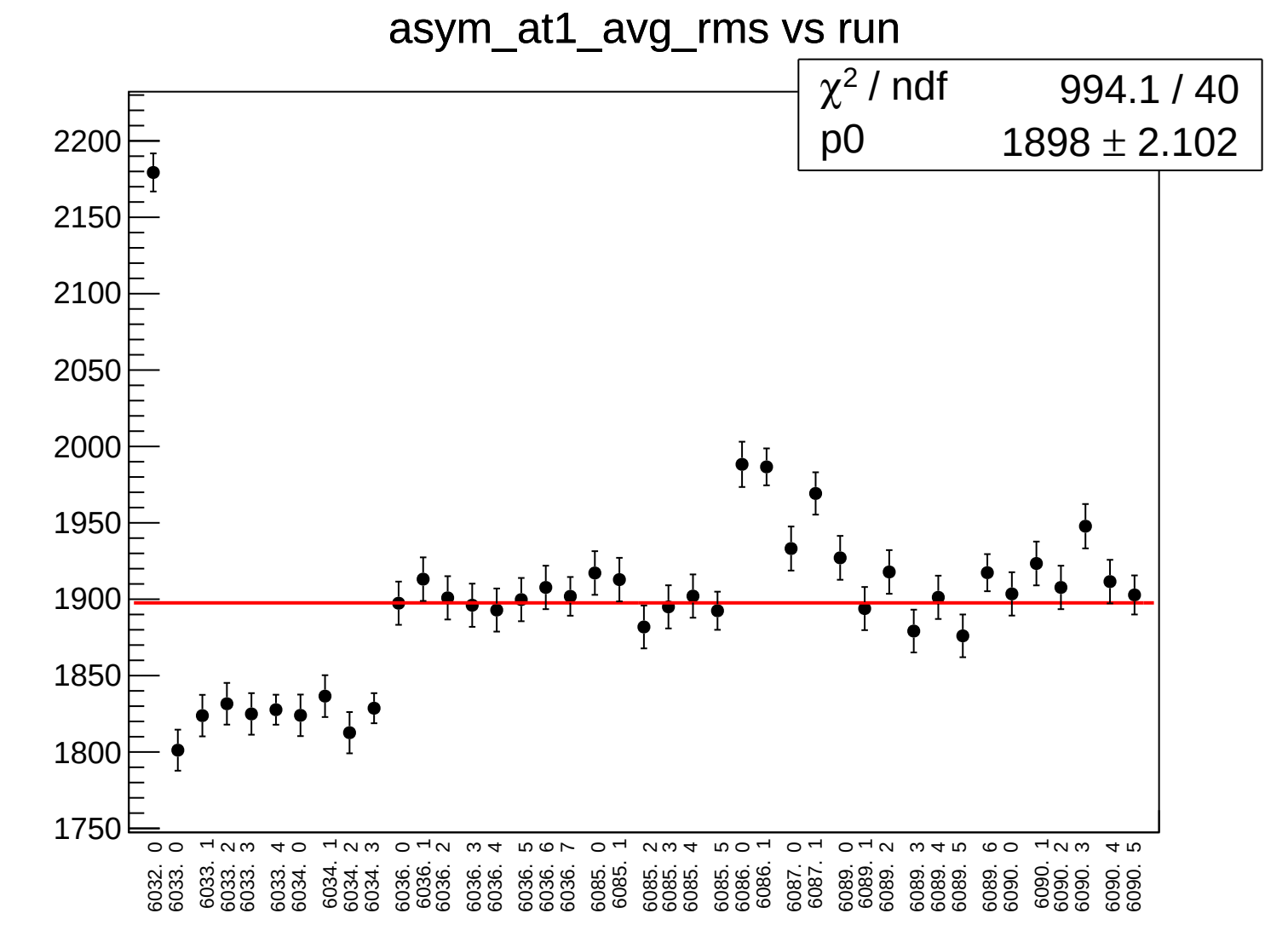

dit_asym_at1_avg_rms vs run
χ^2 / ndf 954.2 / 40
p0 1854 ± 2.054
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

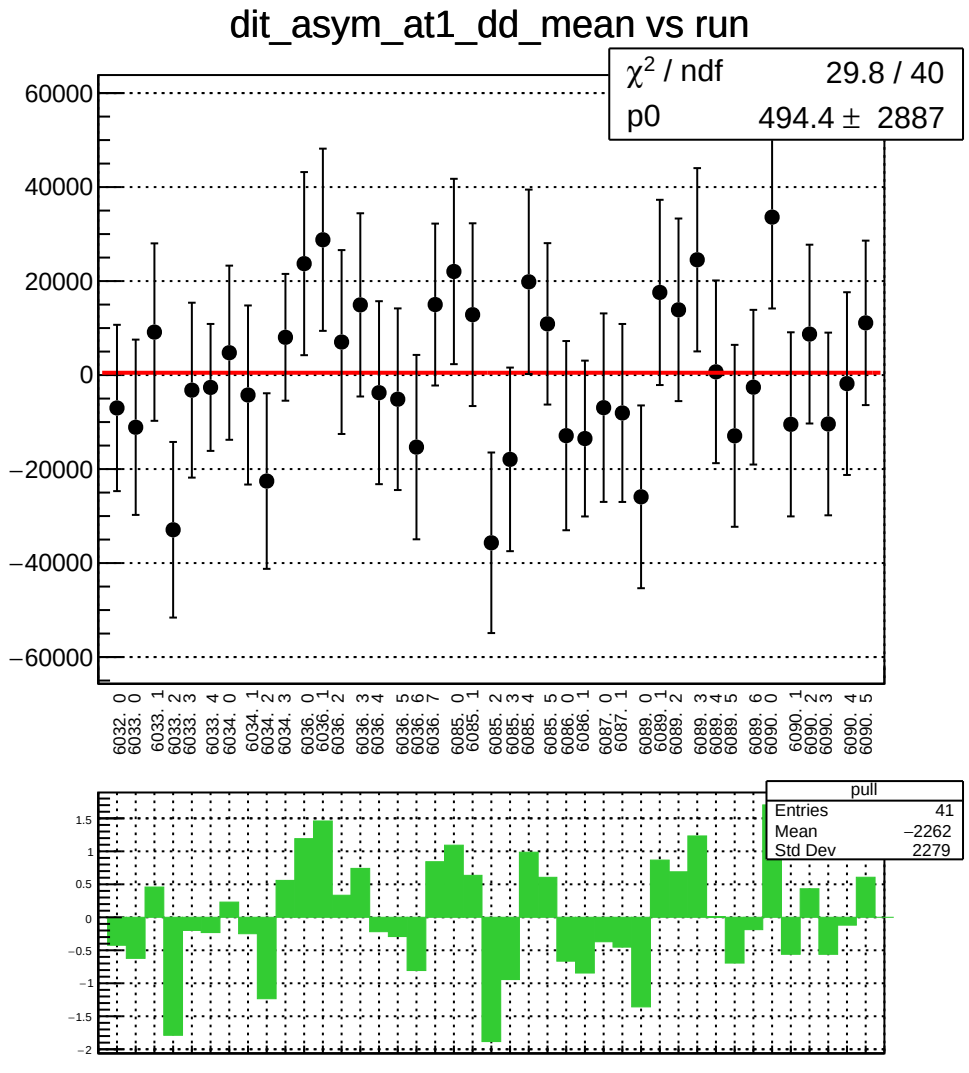

asym_at1_avg_correction_mean vs run
χ² / ndf 31.7 / 40
p0 324.9 ± 677.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −14.34
Std Dev 32.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.06623
Std Dev 0.8768
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

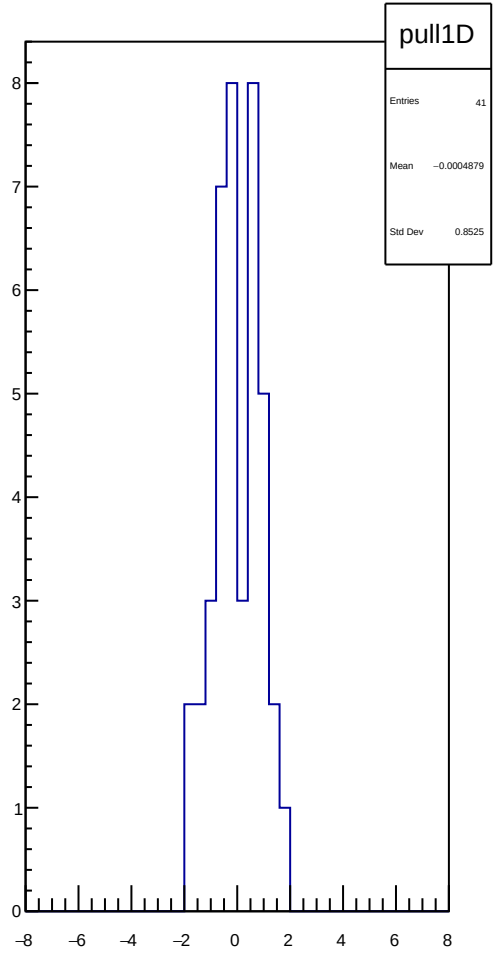

asym_at1_avg_correction_rms vs run
χ² / ndf 2.288e+04 / 40
p0 426.5 ± 0.4791
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

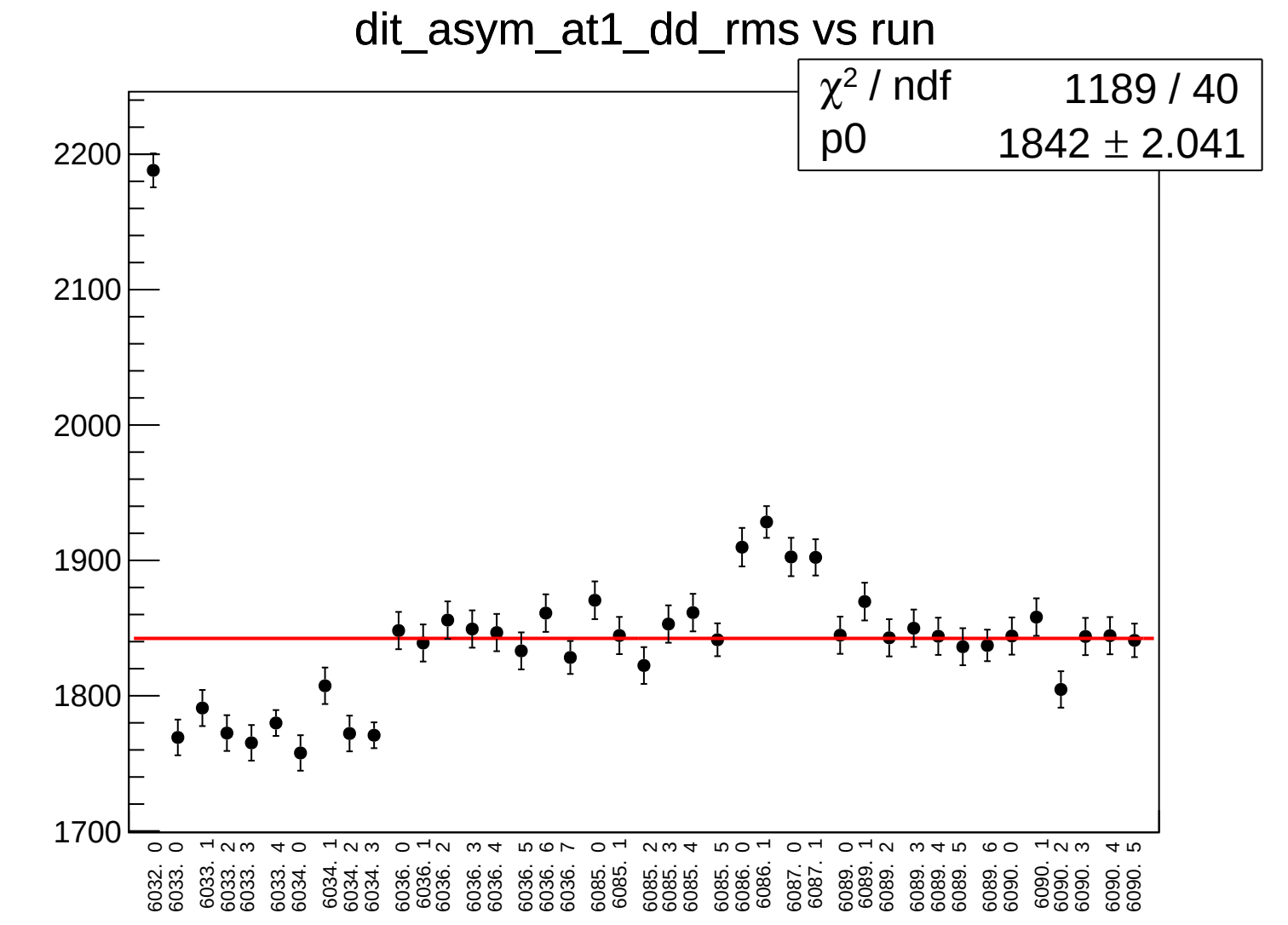

asym_at1_avg_mean vs run
χ² / ndf 25.75 / 40
p0 −5314 ± 2973
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 136.9
Std Dev 117.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

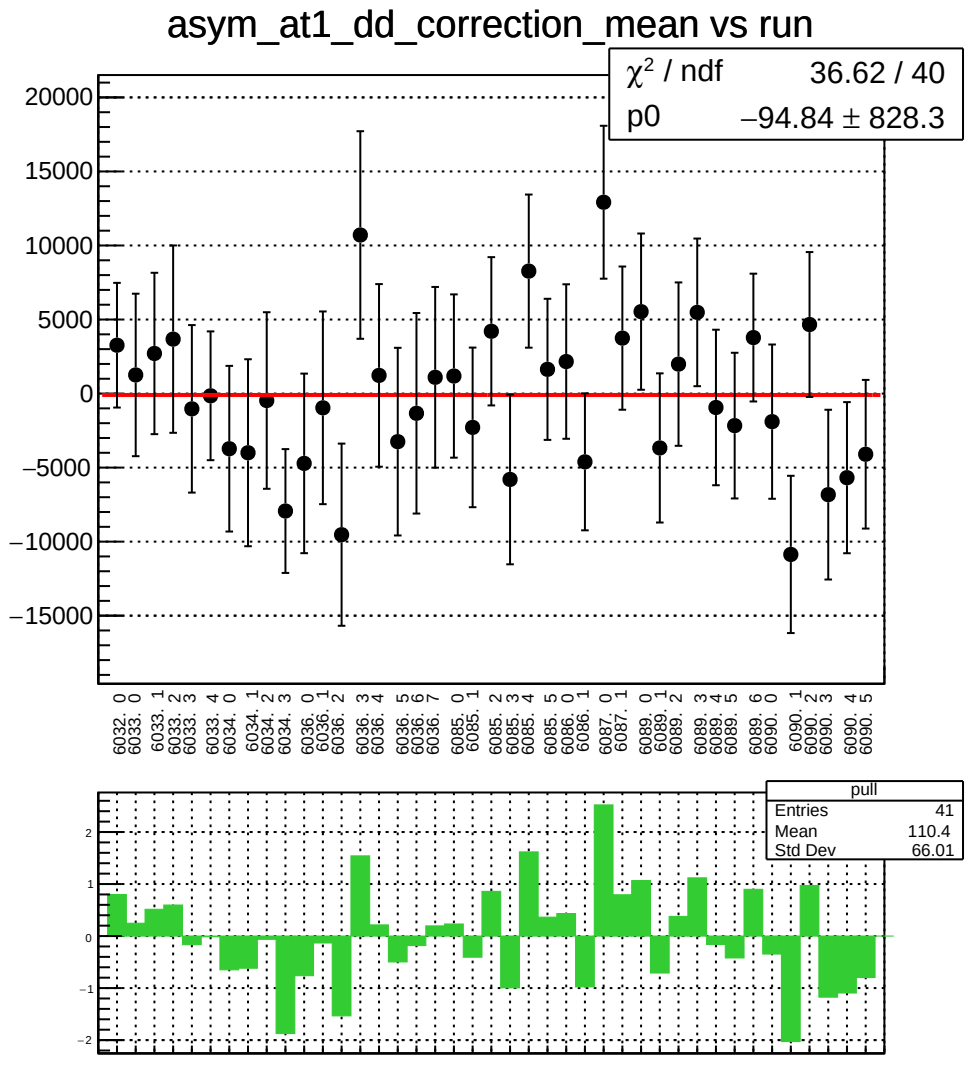

pull1D
Entries 41
Mean 0.02058
Std Dev 0.7922
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

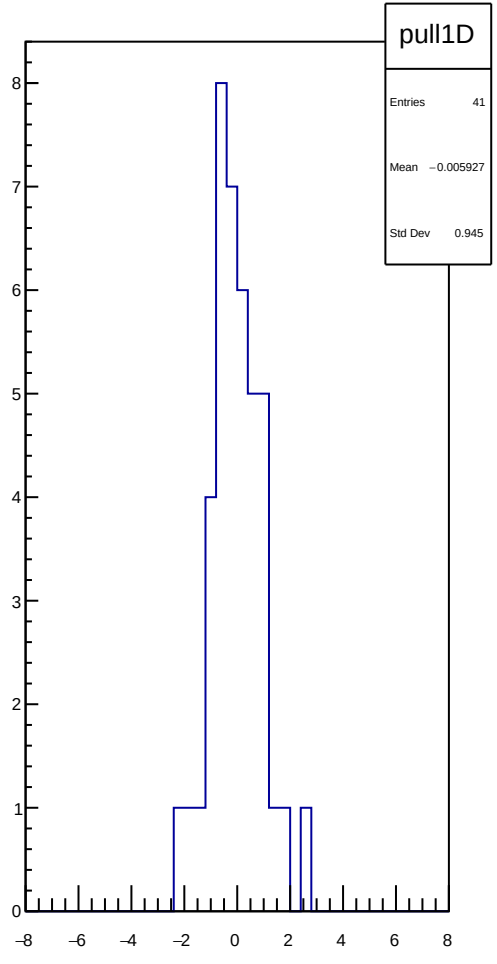

asym_at1_avg_rms vs run
χ² / ndf 994.1 / 40
p0 1898 ± 2.102
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

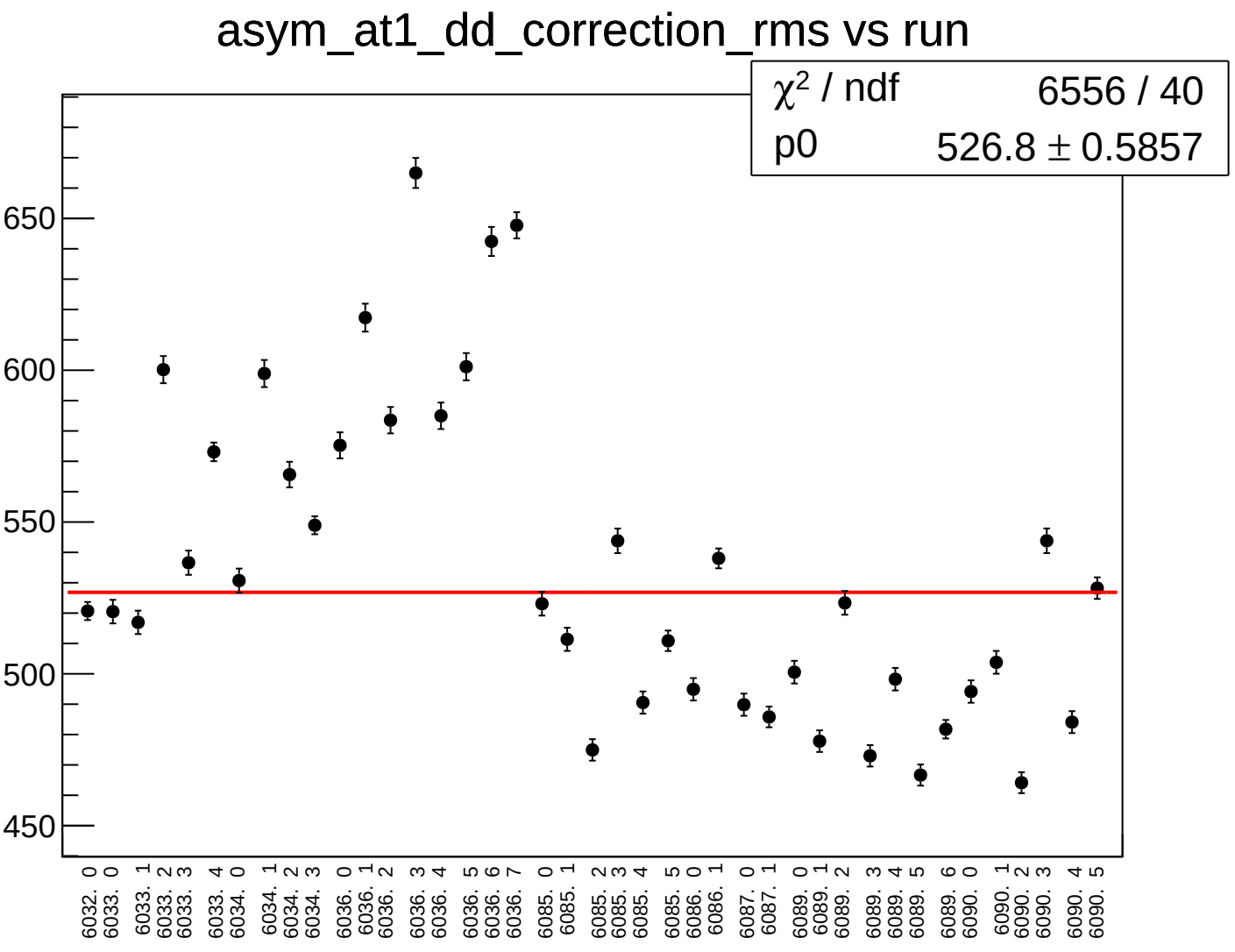

dit_asym_at1_dd_mean vs run
χ² / ndf 29.8 / 40
p0 494.4 ± 2887
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −2262
Std Dev 2279
1.5
1
0.5
0
−0.5
−1
−1.5
−2

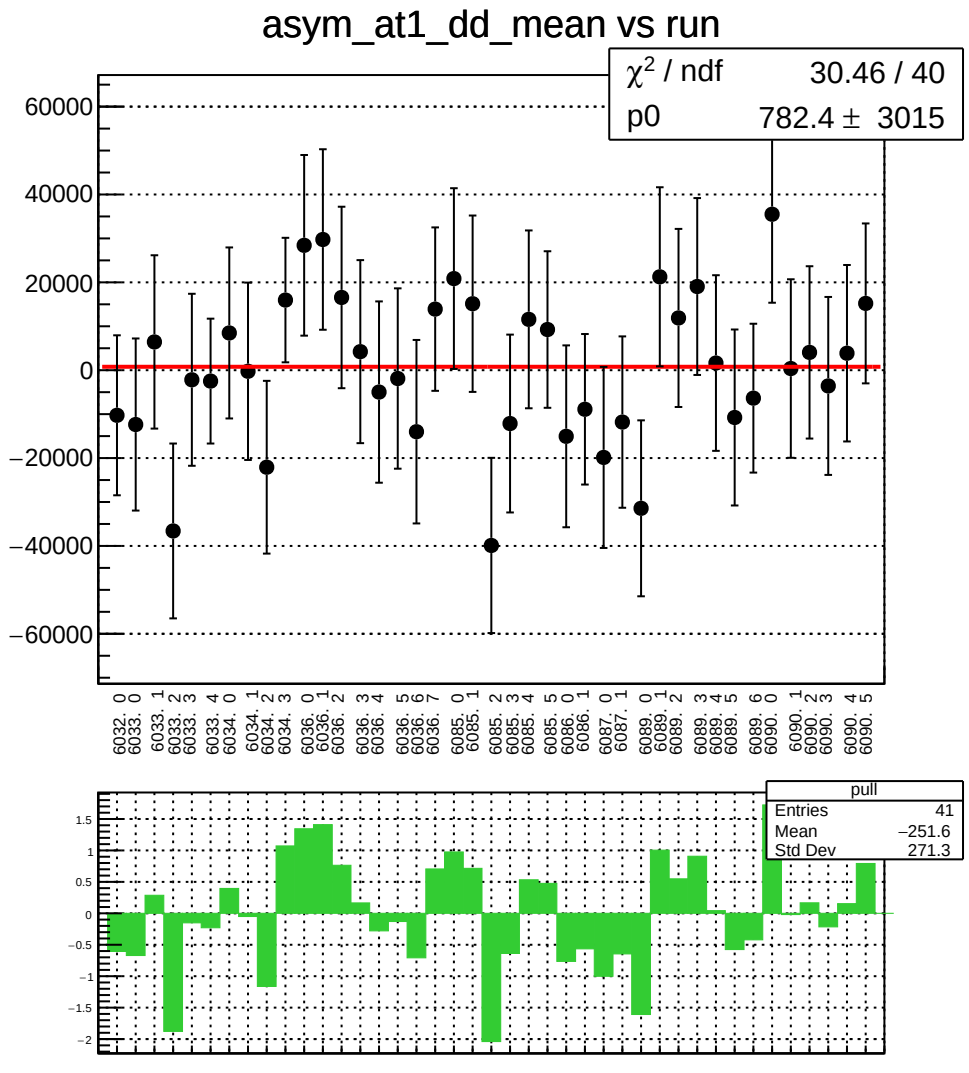

pull1D
Entries 41
Mean −0.0004879
Std Dev 0.8525
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

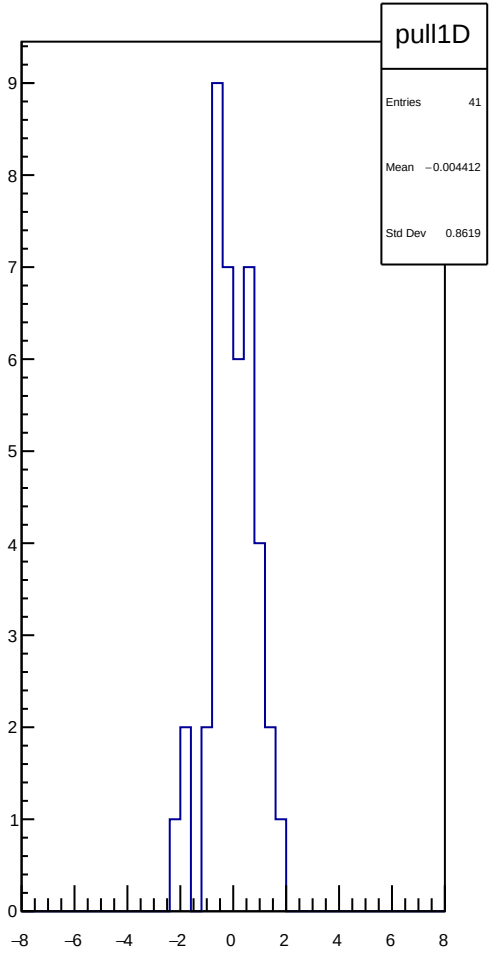

dit_asym_at1_dd_rms vs run
χ² / ndf 1189 / 40
p0 1842 ± 2.041
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

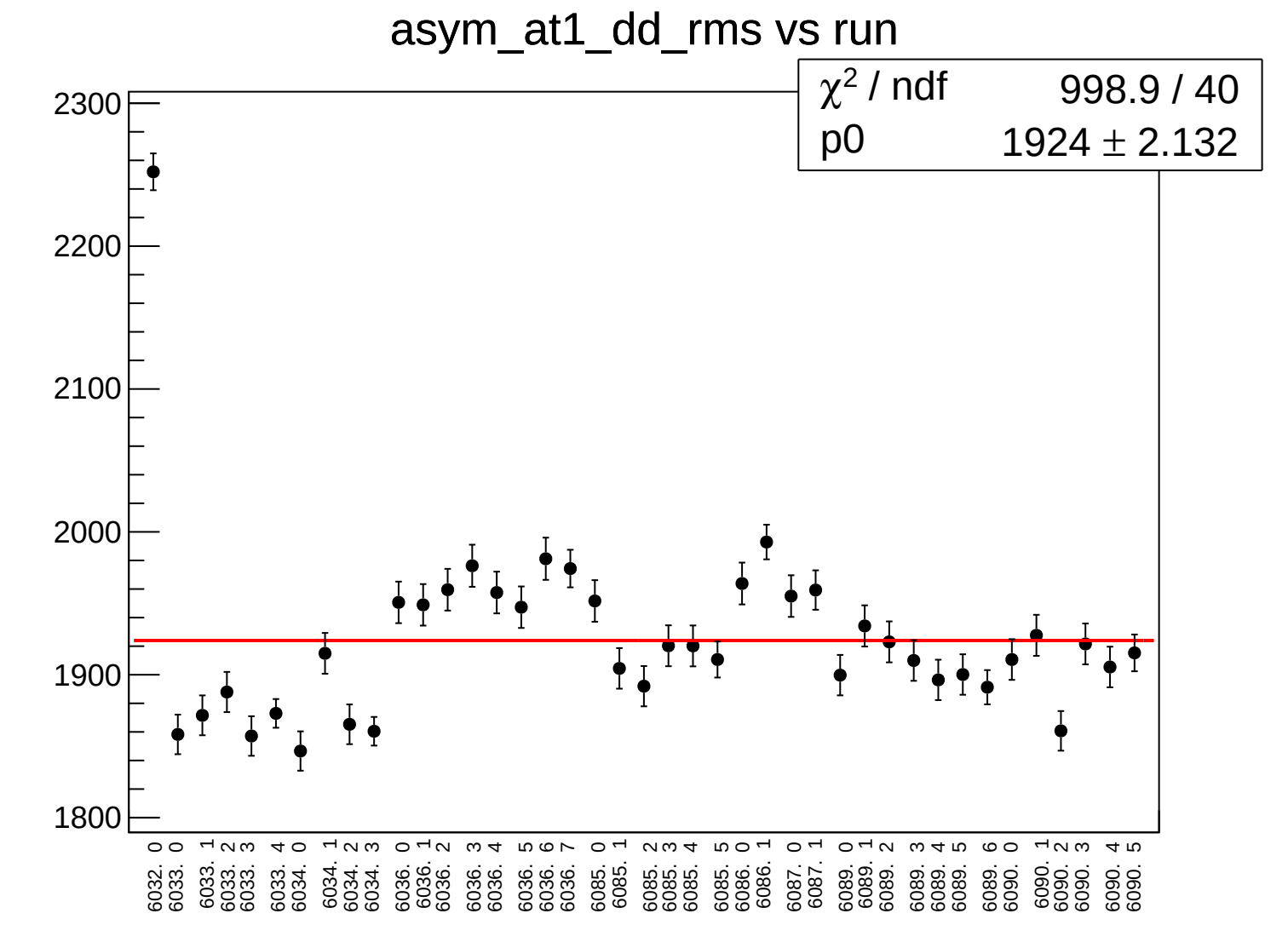

asym_at1_dd_correction_mean vs run
χ² / ndf 36.62 / 40
p0 −94.84 ± 828.3
pull
Entries 41
Mean 110.4
Std Dev 66.01

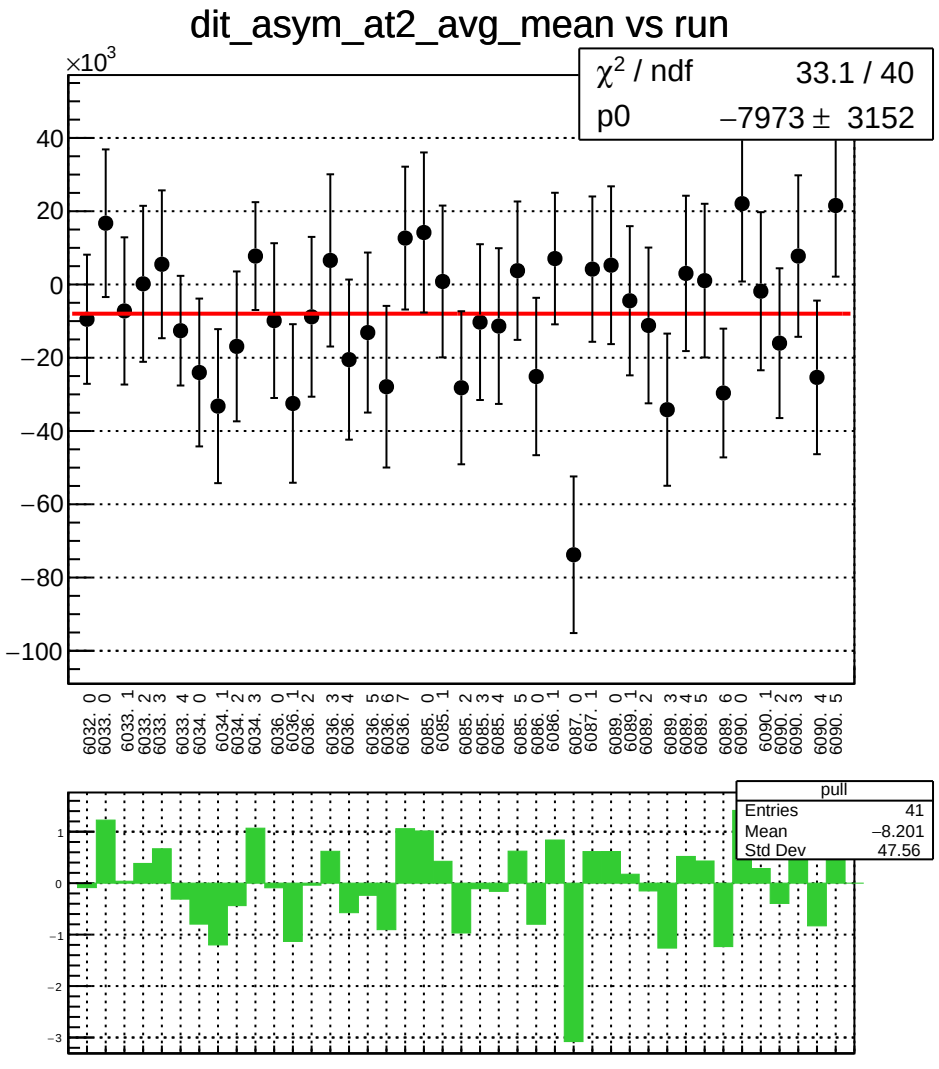

pull1D
Entries 41
Mean −0.005927
Std Dev 0.945

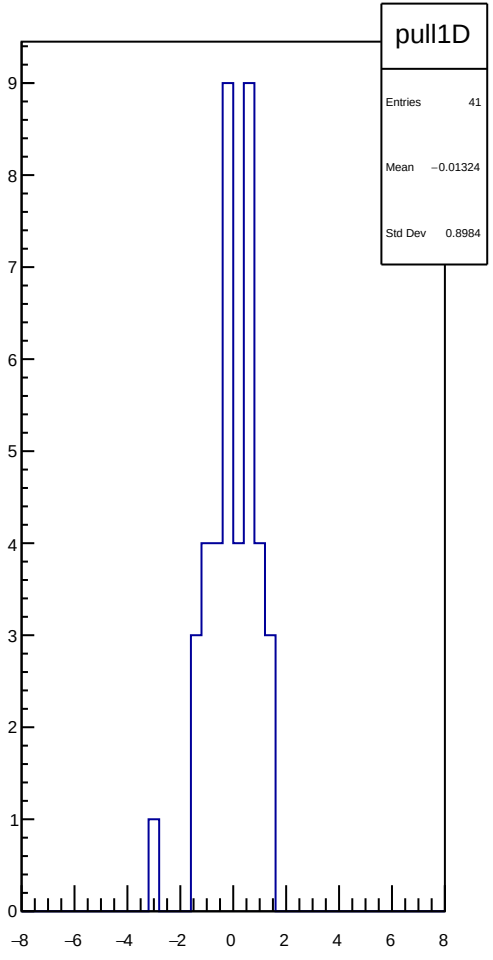

asym_at1_dd_correction_rms vs run
χ² / ndf 6556 / 40
p0 526.8 ± 0.5857
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

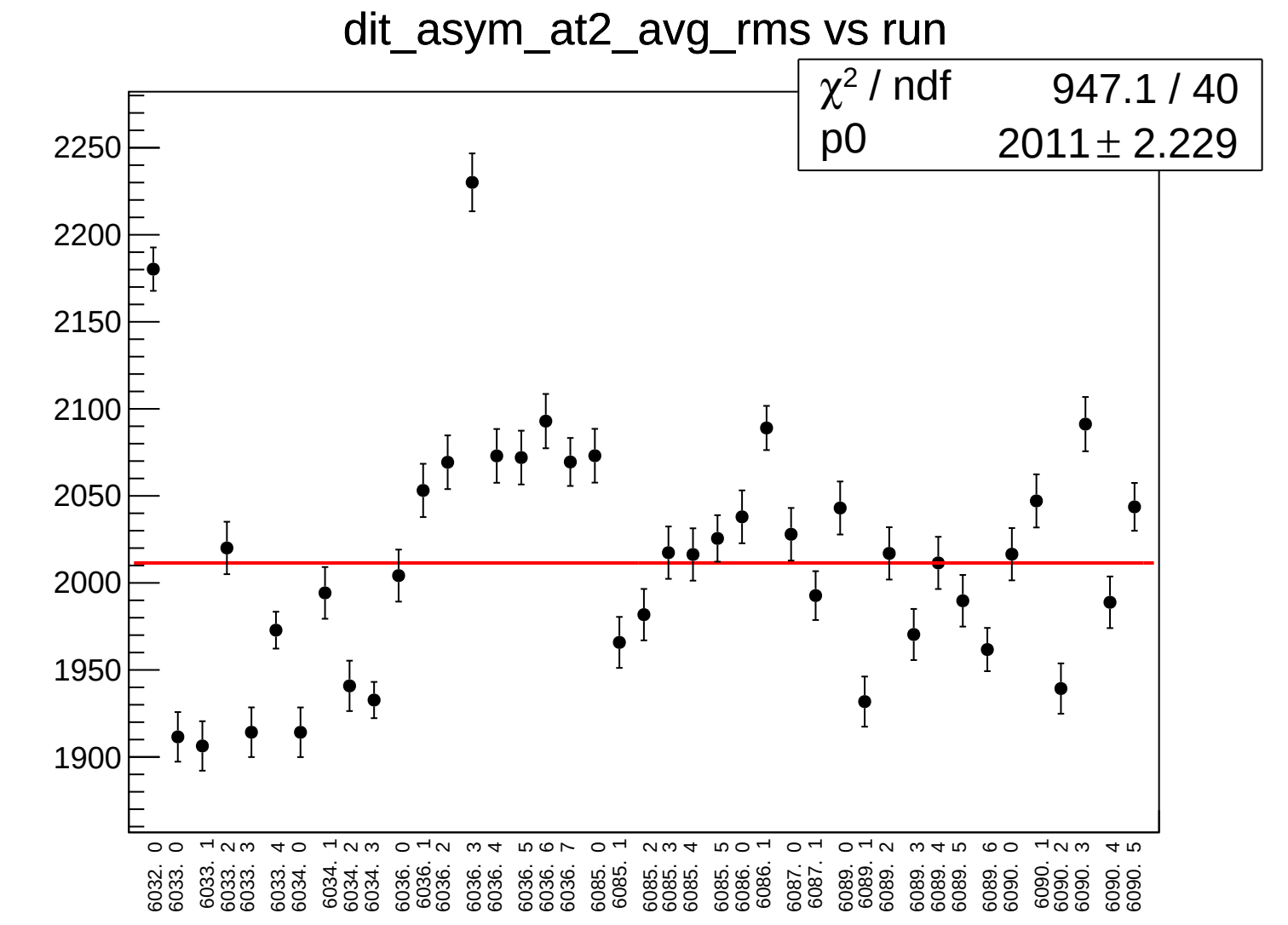

asym_at1_dd_mean vs run
χ² / ndf 30.46 / 40
p0 782.4 ± 3015
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −251.6
Std Dev 271.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

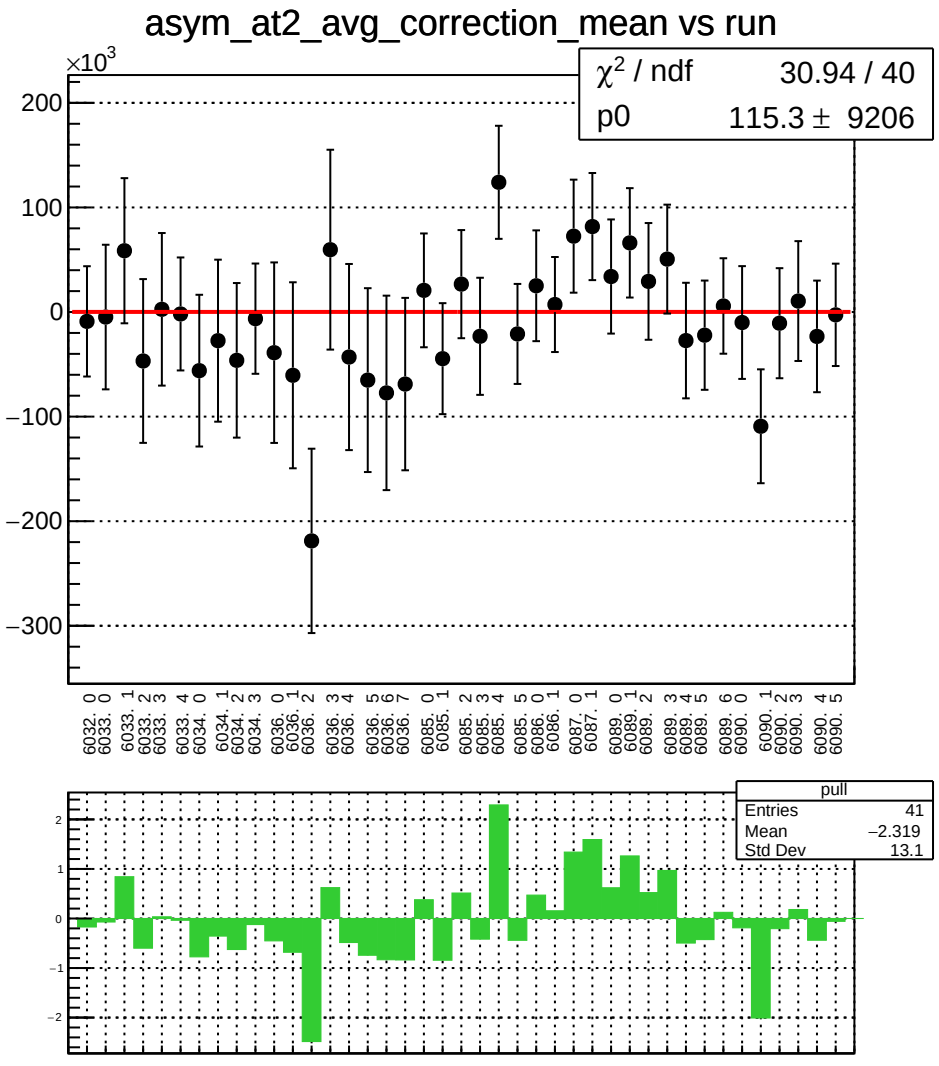

pull1D
Entries 41
Mean −0.004412
Std Dev 0.8619
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

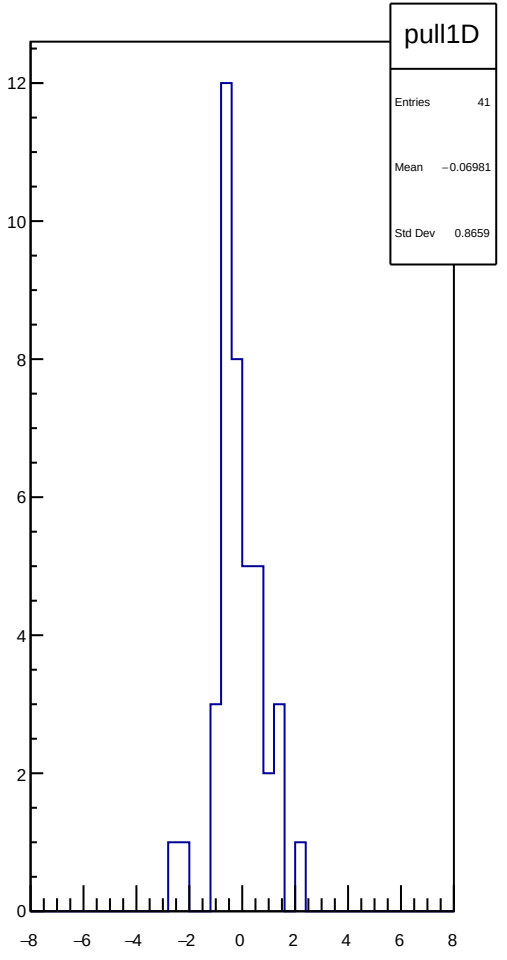

asym_at1_dd_rms vs run
χ² / ndf 998.9 / 40
p0 1924 ± 2.132
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

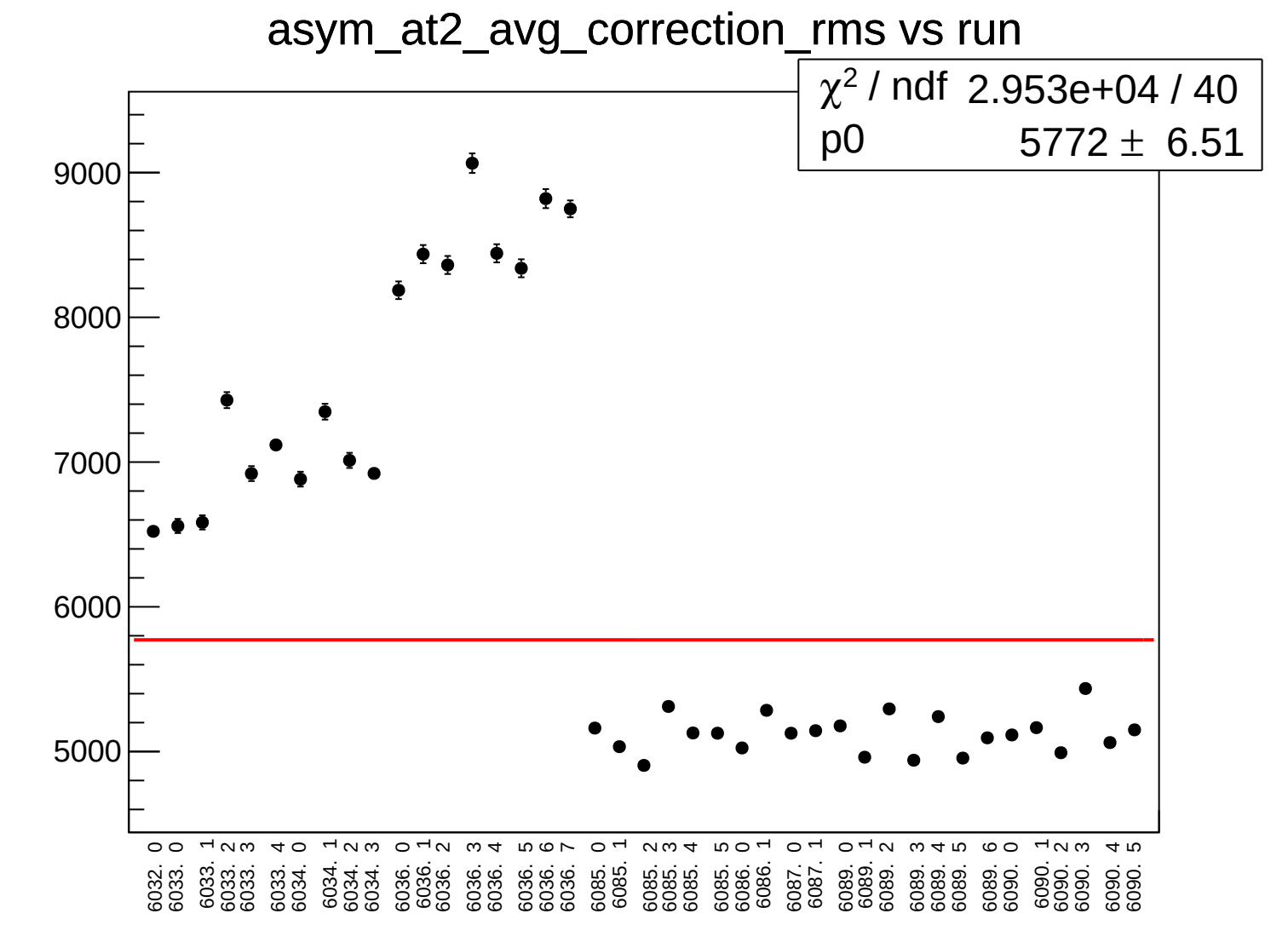

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 33.1 / 40
p0 −7973 ± 3152
40
20
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −8.201
Std Dev 47.56
1
0
−1
−2
−3

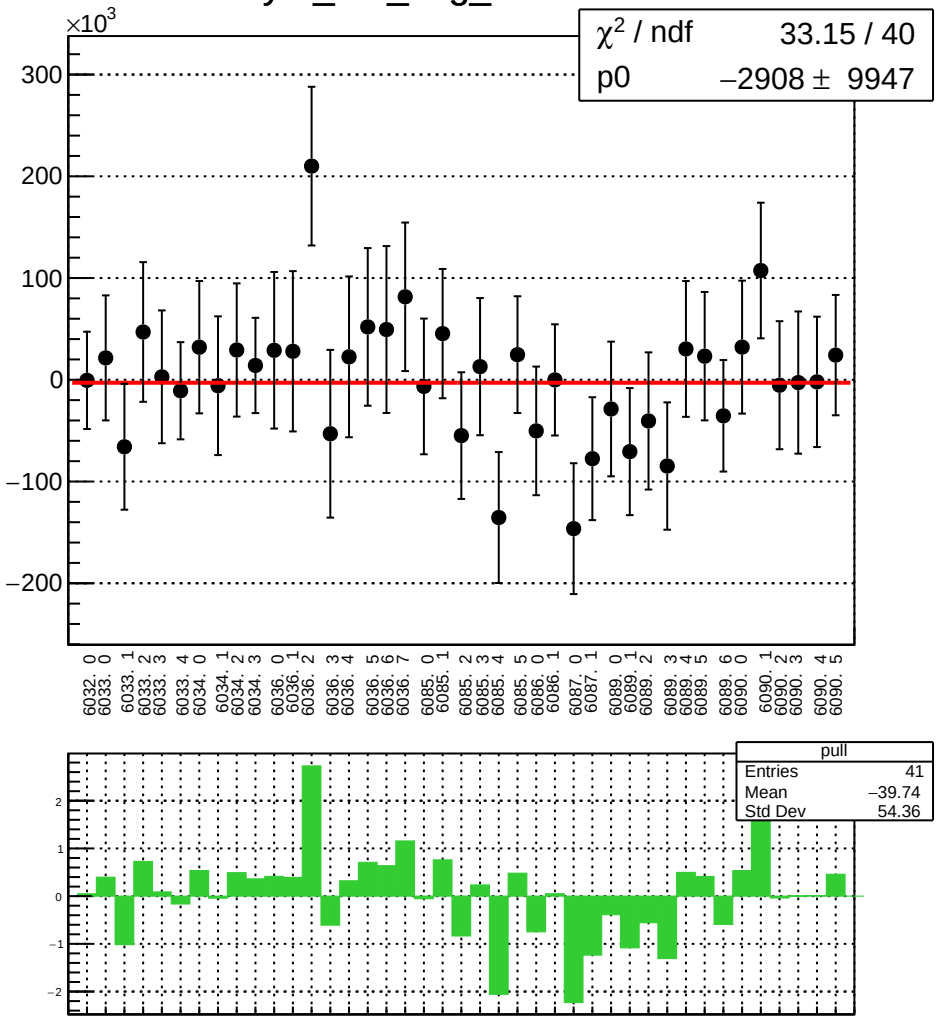

pull1D
Entries 41
Mean −0.01324
Std Dev 0.8984
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

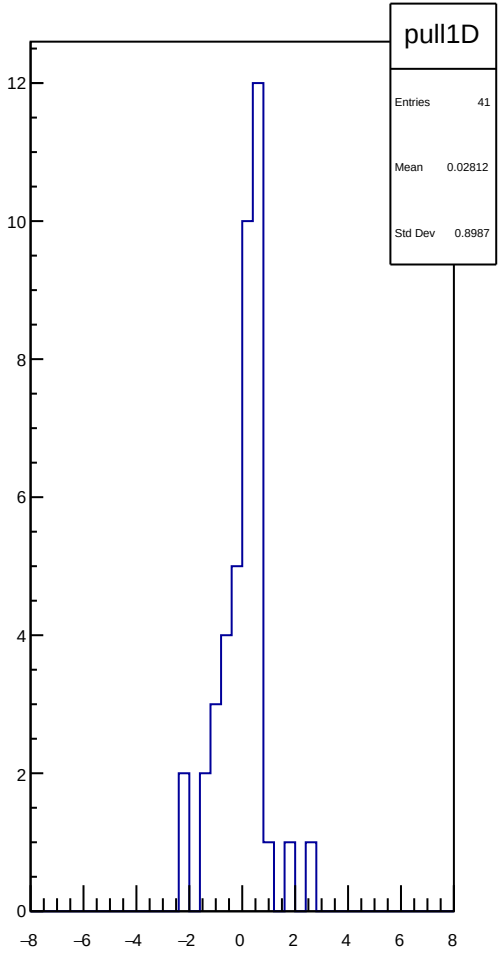

dit_asym_at2_avg_rms vs run
χ² / ndf 947.1 / 40
p0 2011 ± 2.229
2250
2200
2150
2100
2050
2000
1950
1900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

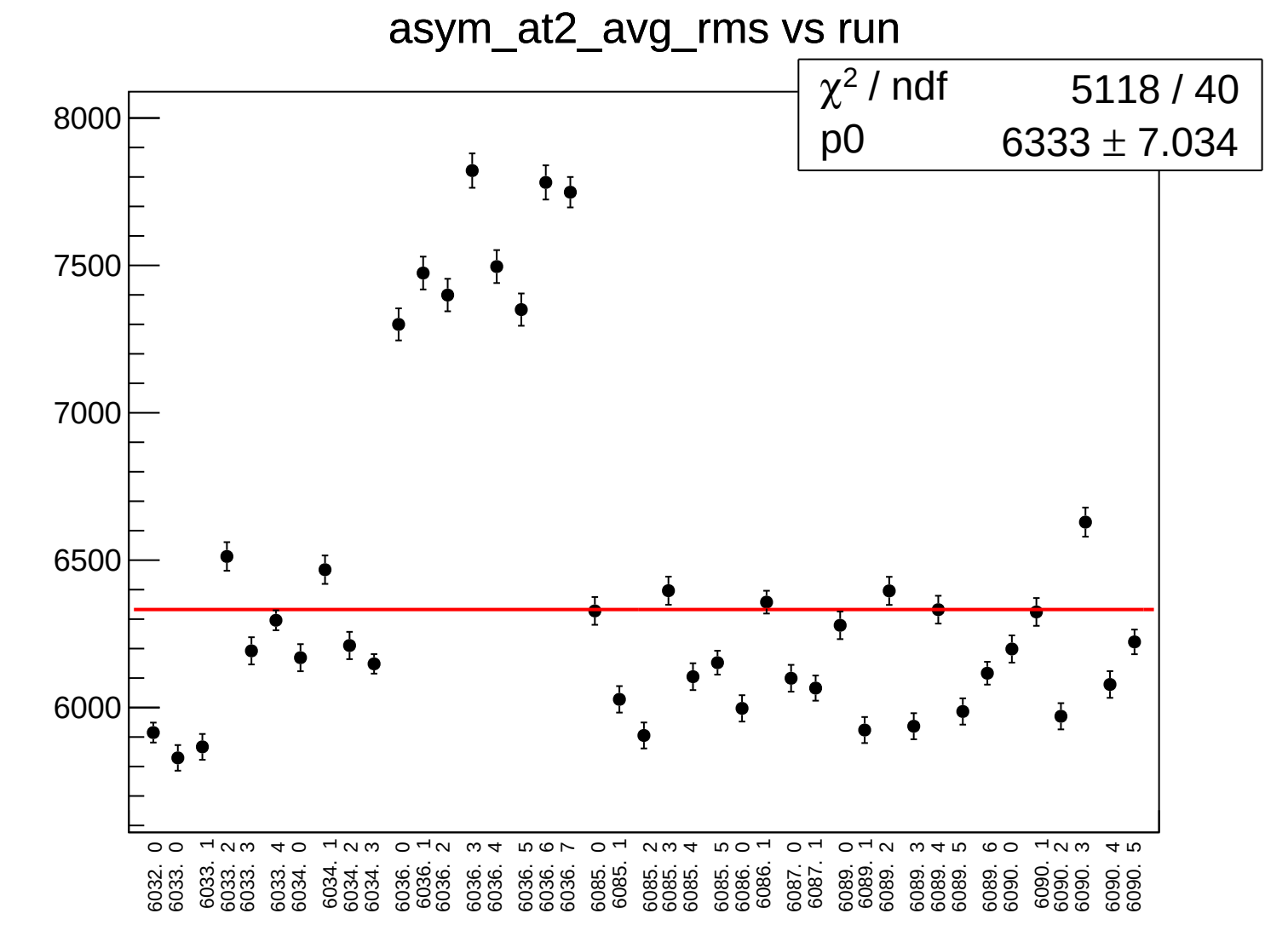

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 30.94 / 40
p0 115.3 ± 9206
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −2.319
Std Dev 13.1
2
1
0
−1
−2

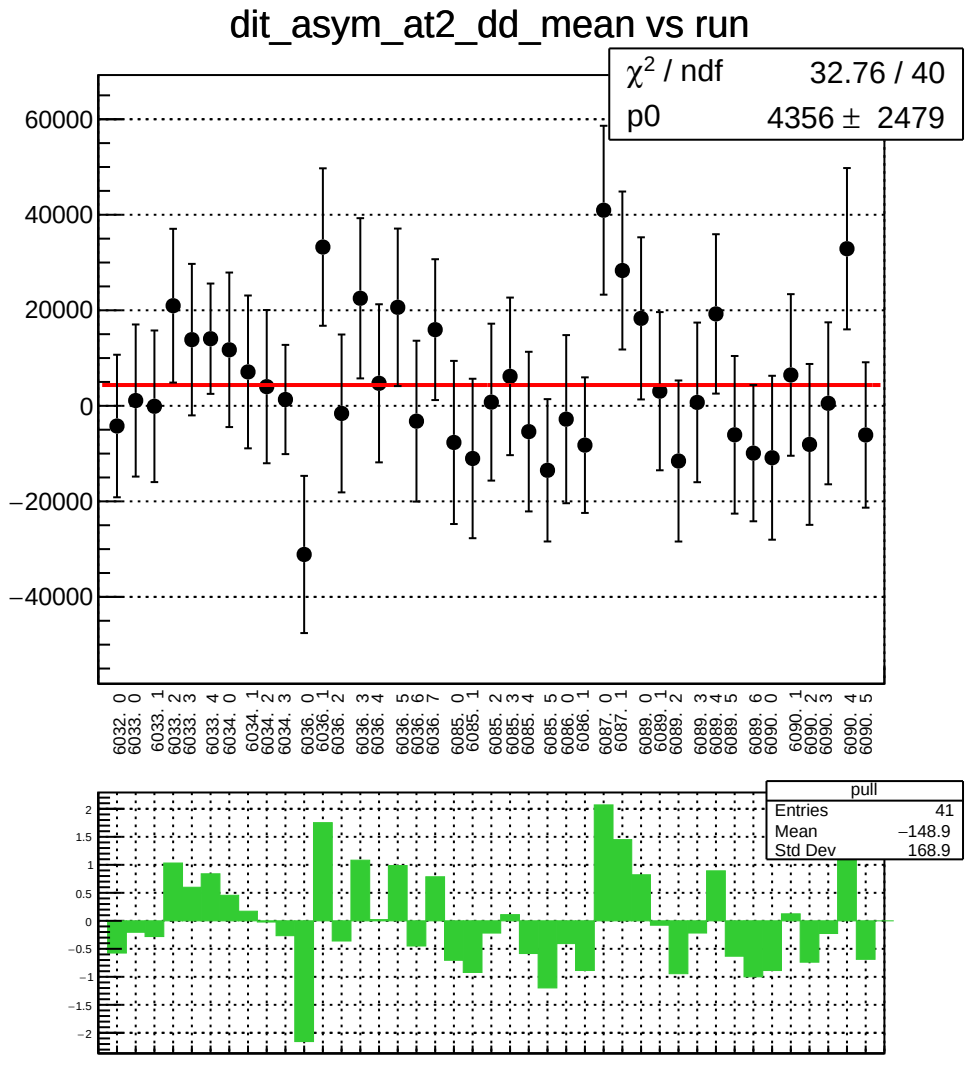

pull1D
Entries 41
Mean −0.06981
Std Dev 0.8659
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

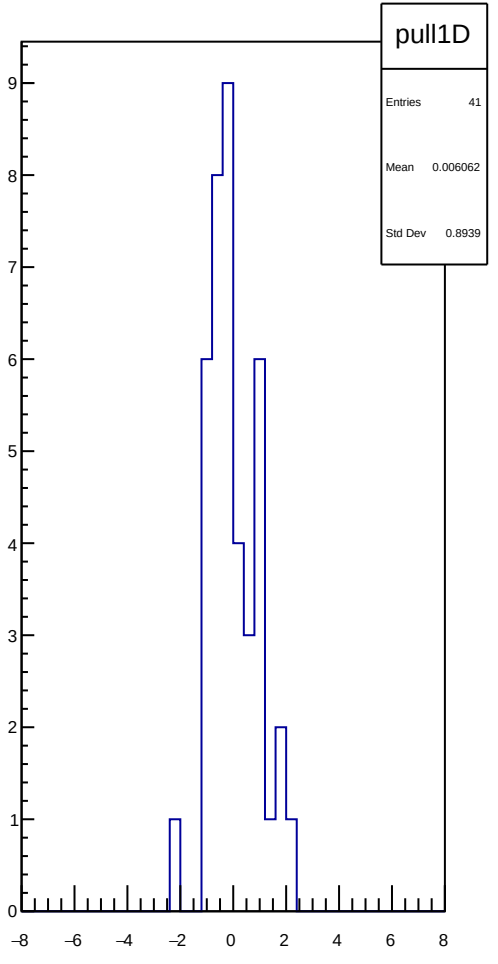

asym_at2_avg_correction_rms vs run
χ² / ndf 2.953e+04 / 40
p0 5772 ± 6.51
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

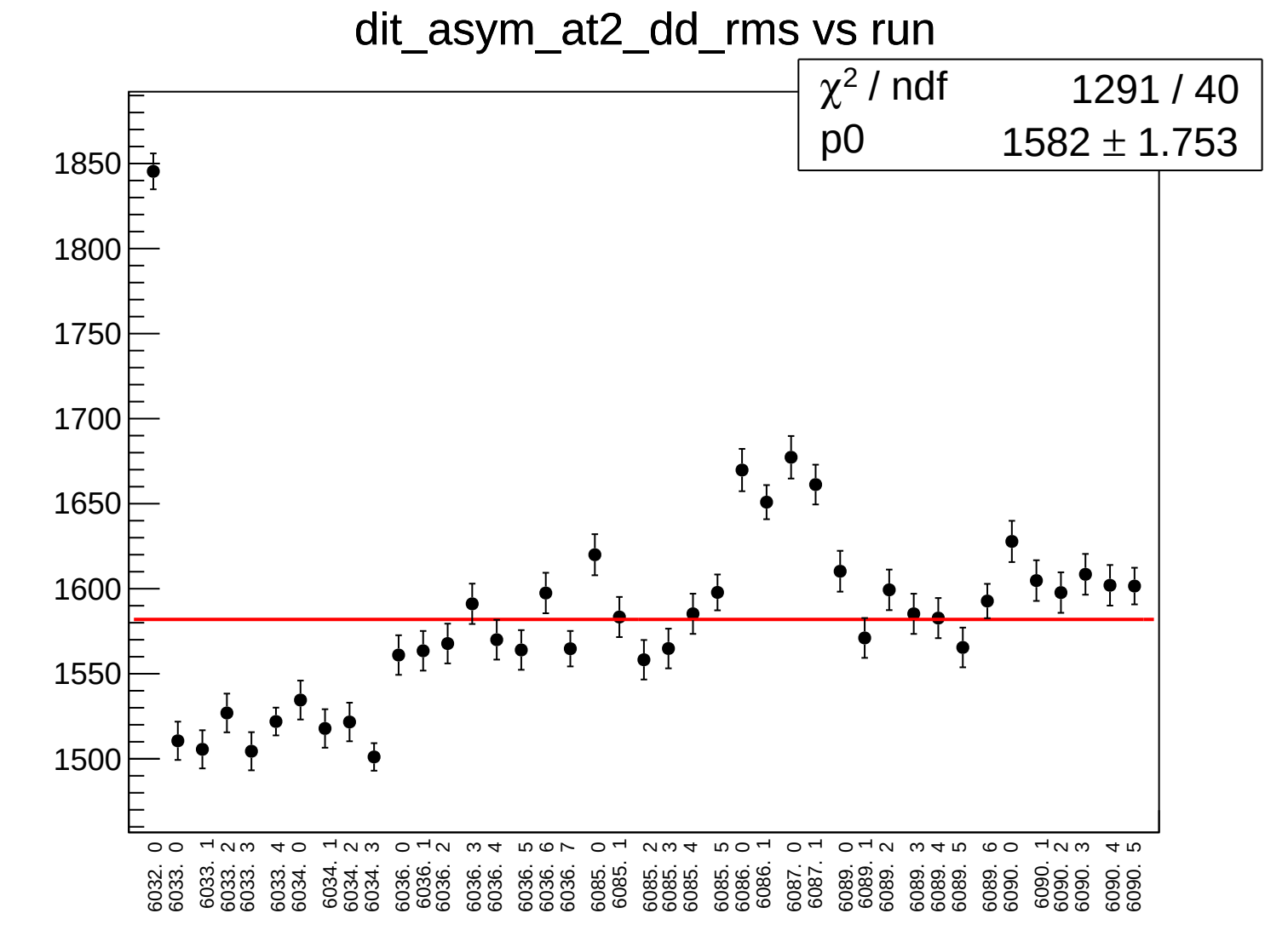

asym_at2_avg_mean vs run
×10^3
χ² / ndf 33.15 / 40
p0 −2908 ± 9947
300
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −39.74
Std Dev 54.36
2
1
0
−1
−2

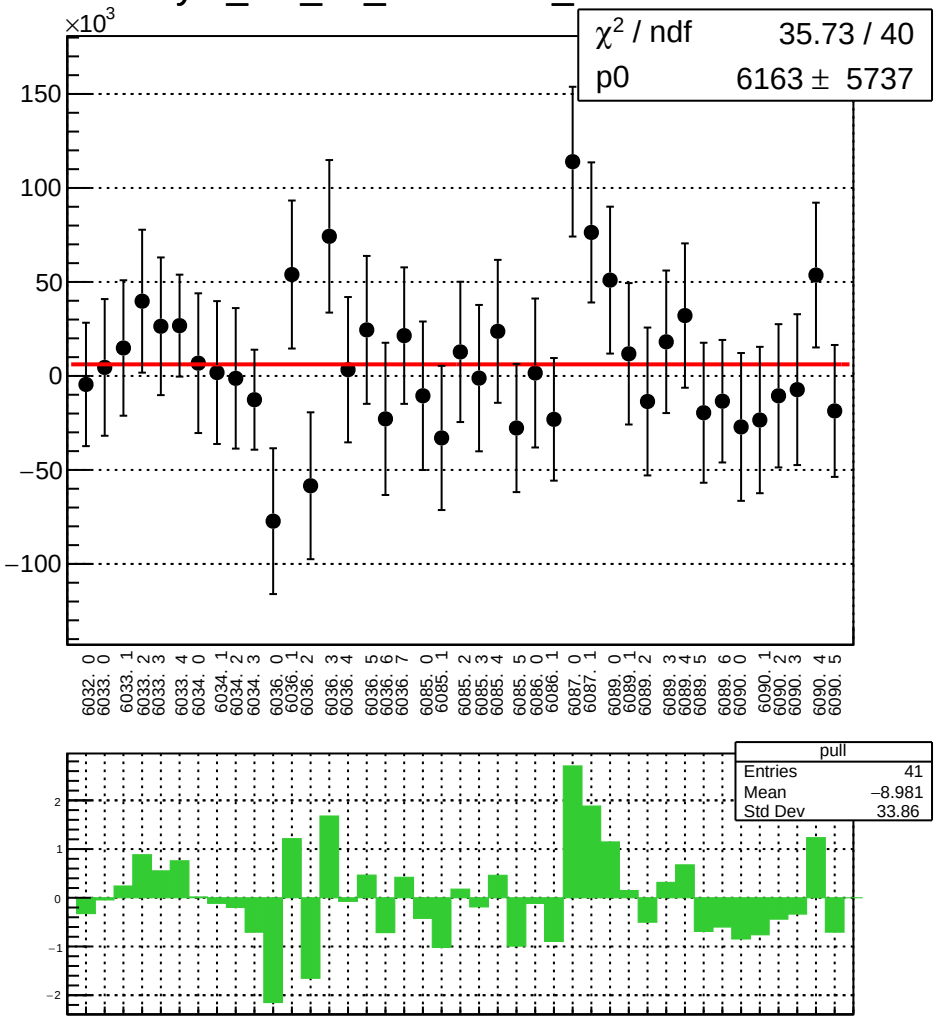

pull1D
Entries 41
Mean 0.02812
Std Dev 0.8987
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

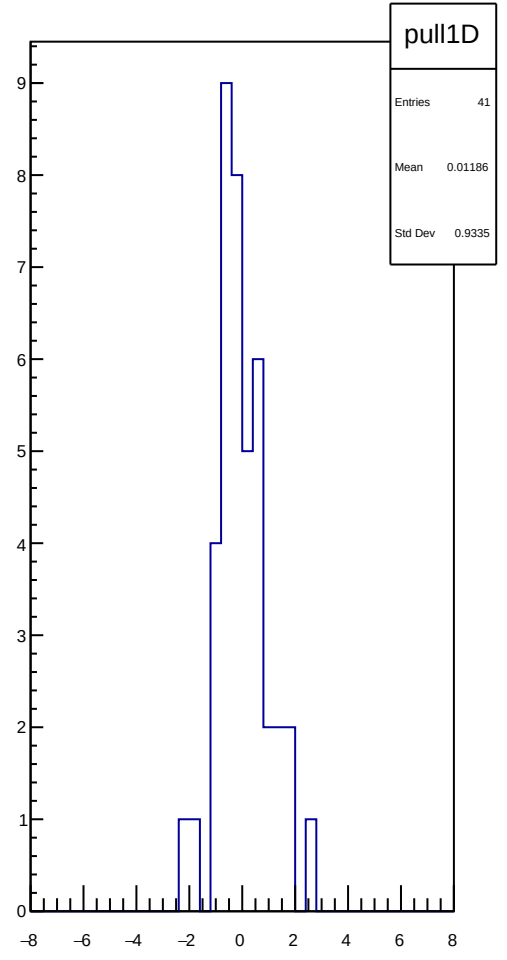

asym_at2_avg_rms vs run
χ² / ndf 5118 / 40
p0 6333 ± 7.034
8000
7500
7000
6500
6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

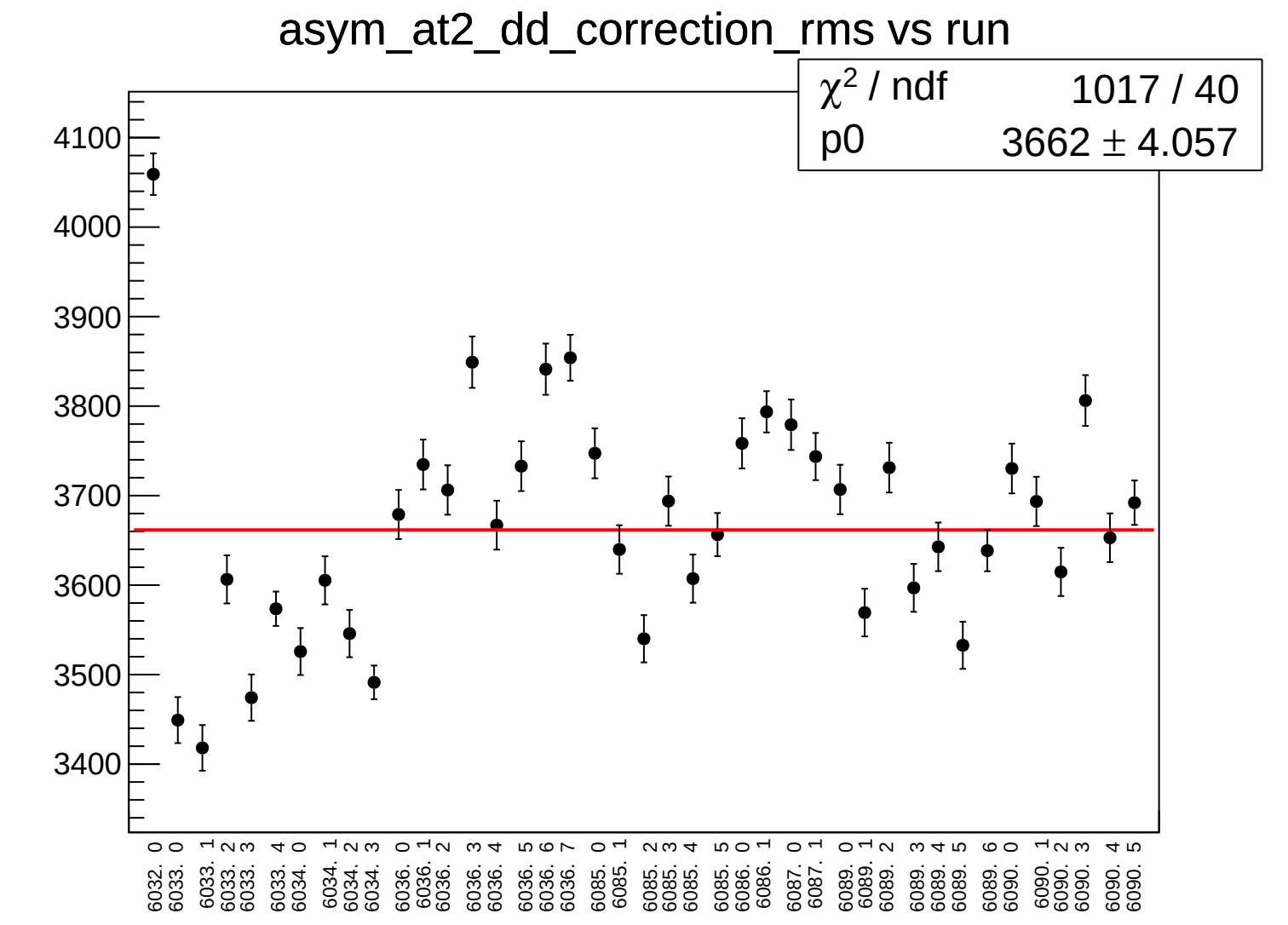

dit_asym_at2_dd_mean vs run
χ² / ndf 32.76 / 40
p0 4356 ± 2479
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −148.9
Std Dev 168.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

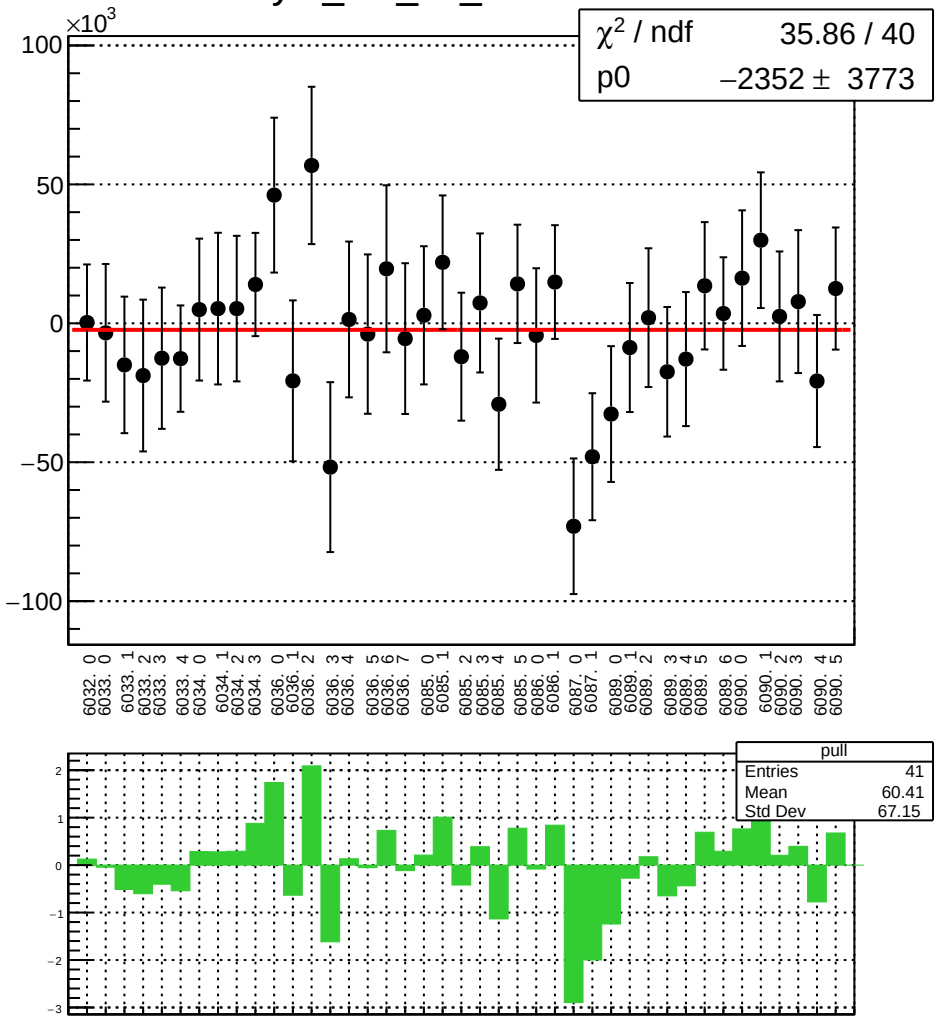

pull1D
Entries 41
Mean 0.006062
Std Dev 0.8939
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

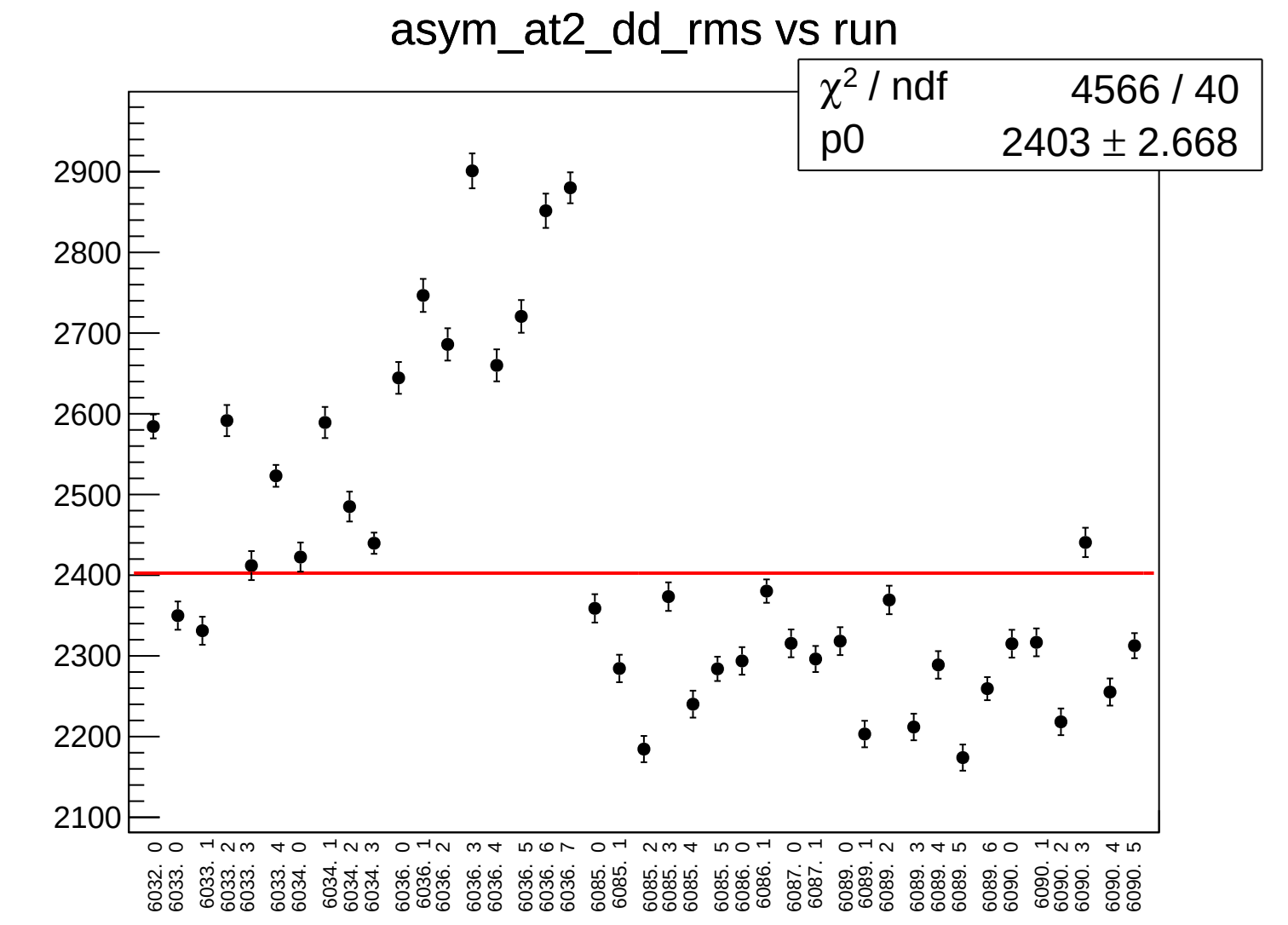

dit_asym_at2_dd_rms vs run
χ² / ndf 1291 / 40
p0 1582 ± 1.753
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

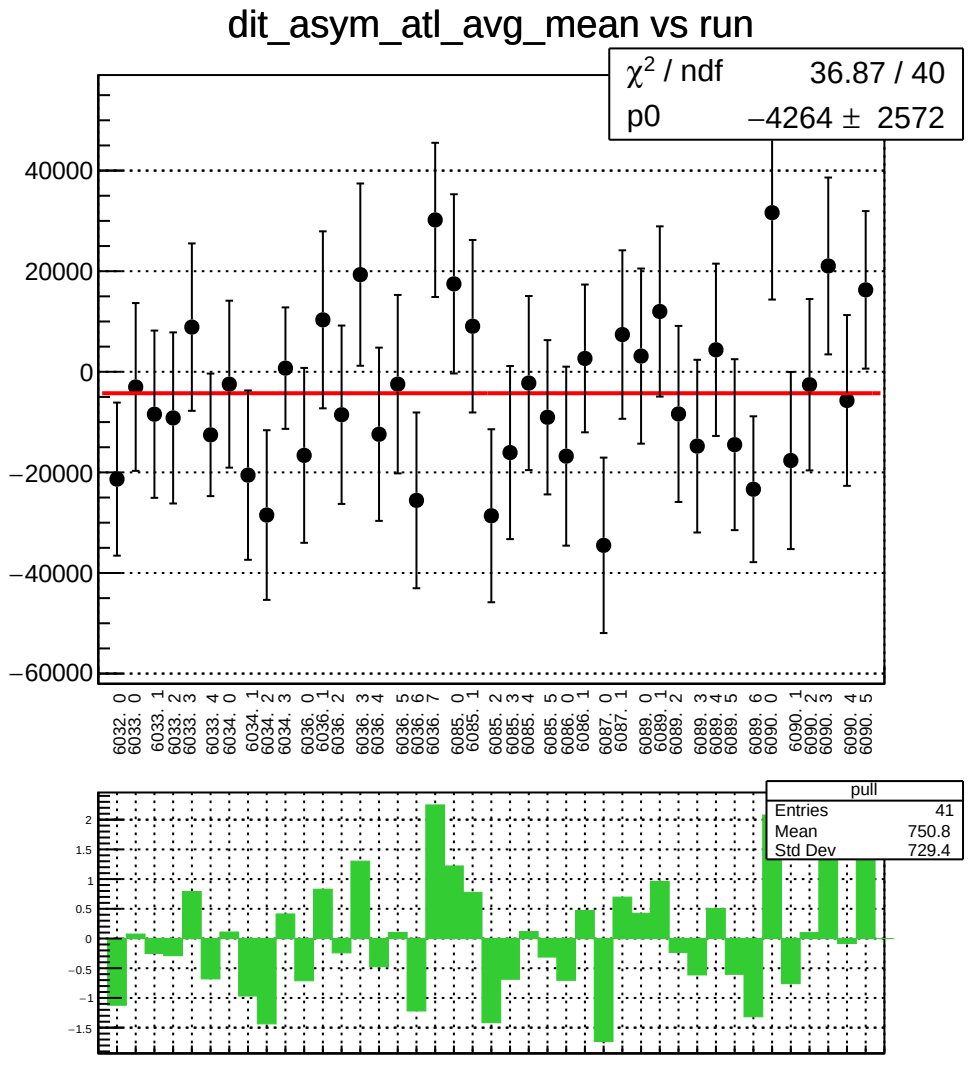

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 35.73 / 40
p0 6163 ± 5737
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −8.981
Std Dev 33.86
2
1
0
−1
−2

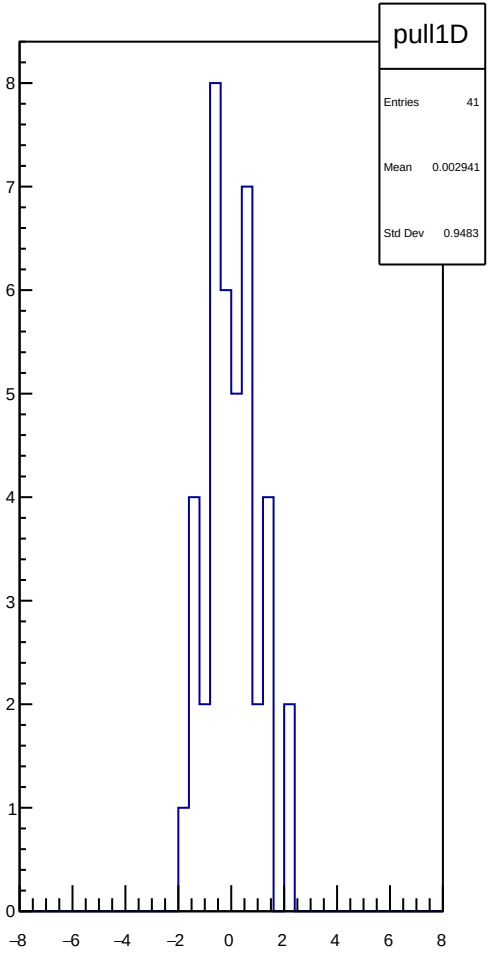

pull1D
Entries 41
Mean 0.01186
Std Dev 0.9335
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

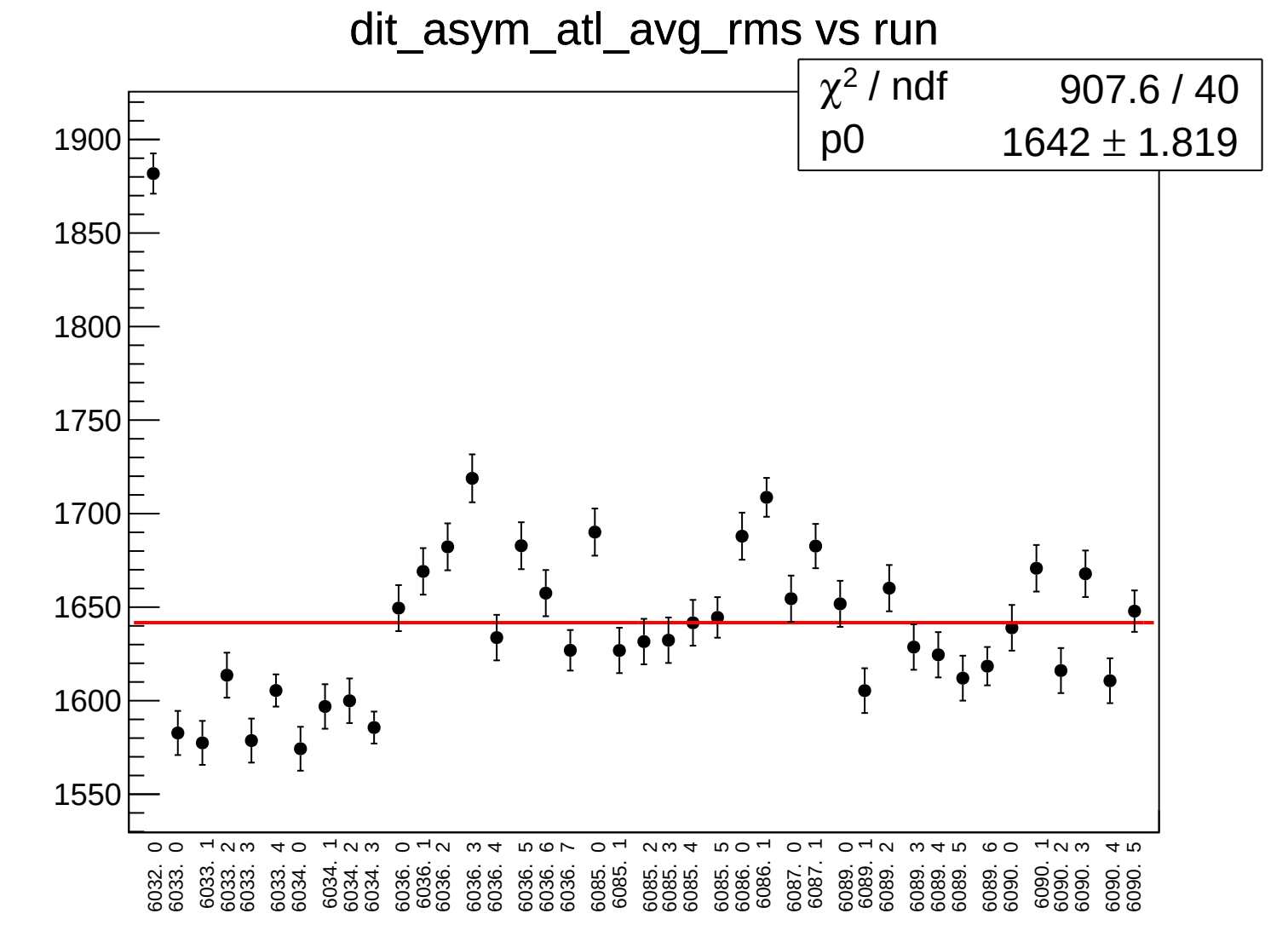

asym_at2_dd_correction_rms vs run
χ² / ndf 1017 / 40
p0 3662 ± 4.057
4100
4000
3900
3800
3700
3600
3500
3400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

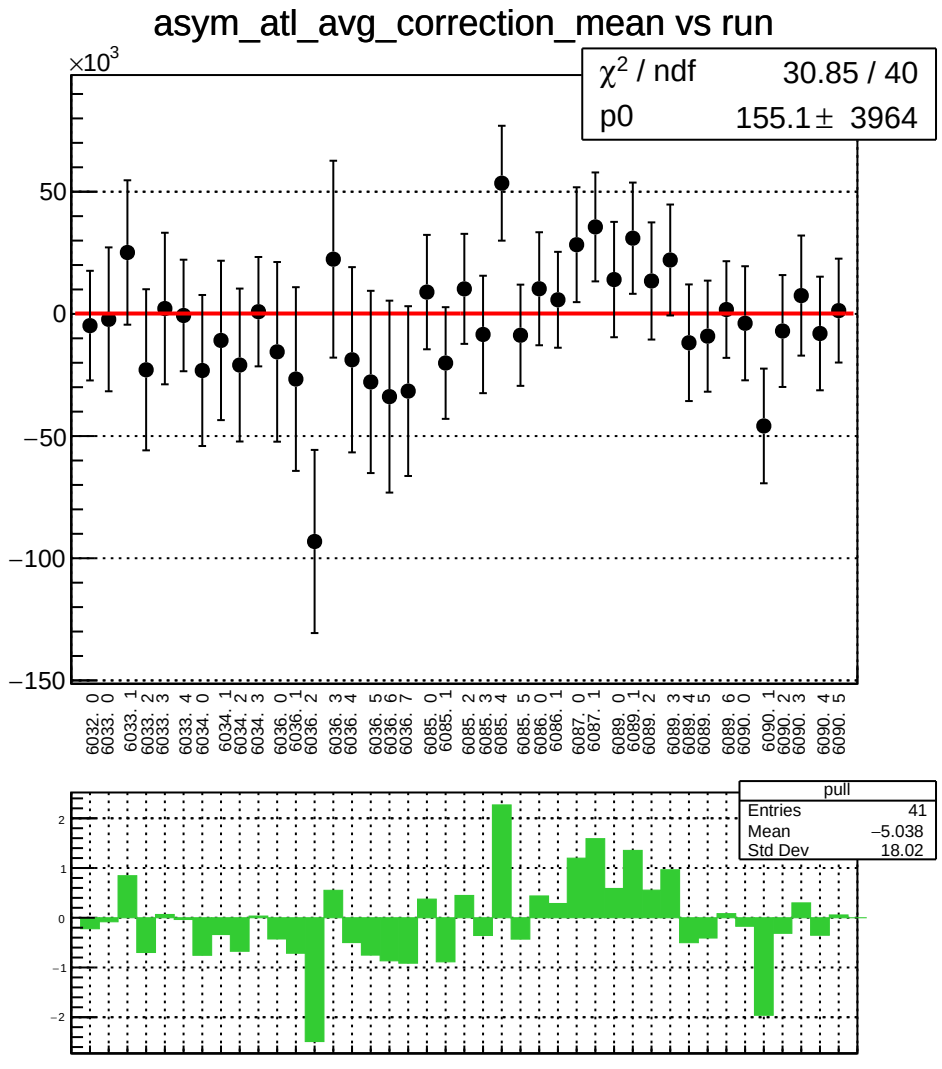

asym_at2_dd_mean vs run
×10^3
χ² / ndf 35.86 / 40
p0 −2352 ± 3773
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 60.41
Std Dev 67.15
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.003109
Std Dev 0.9352
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

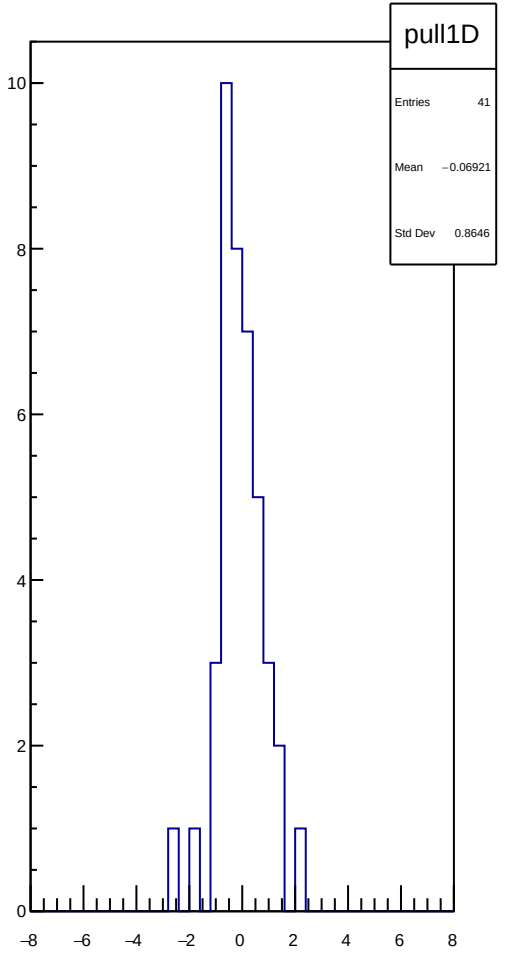

asym_at2_dd_rms vs run
χ² / ndf 4566 / 40
p0 2403 ± 2.668
2900
2800
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

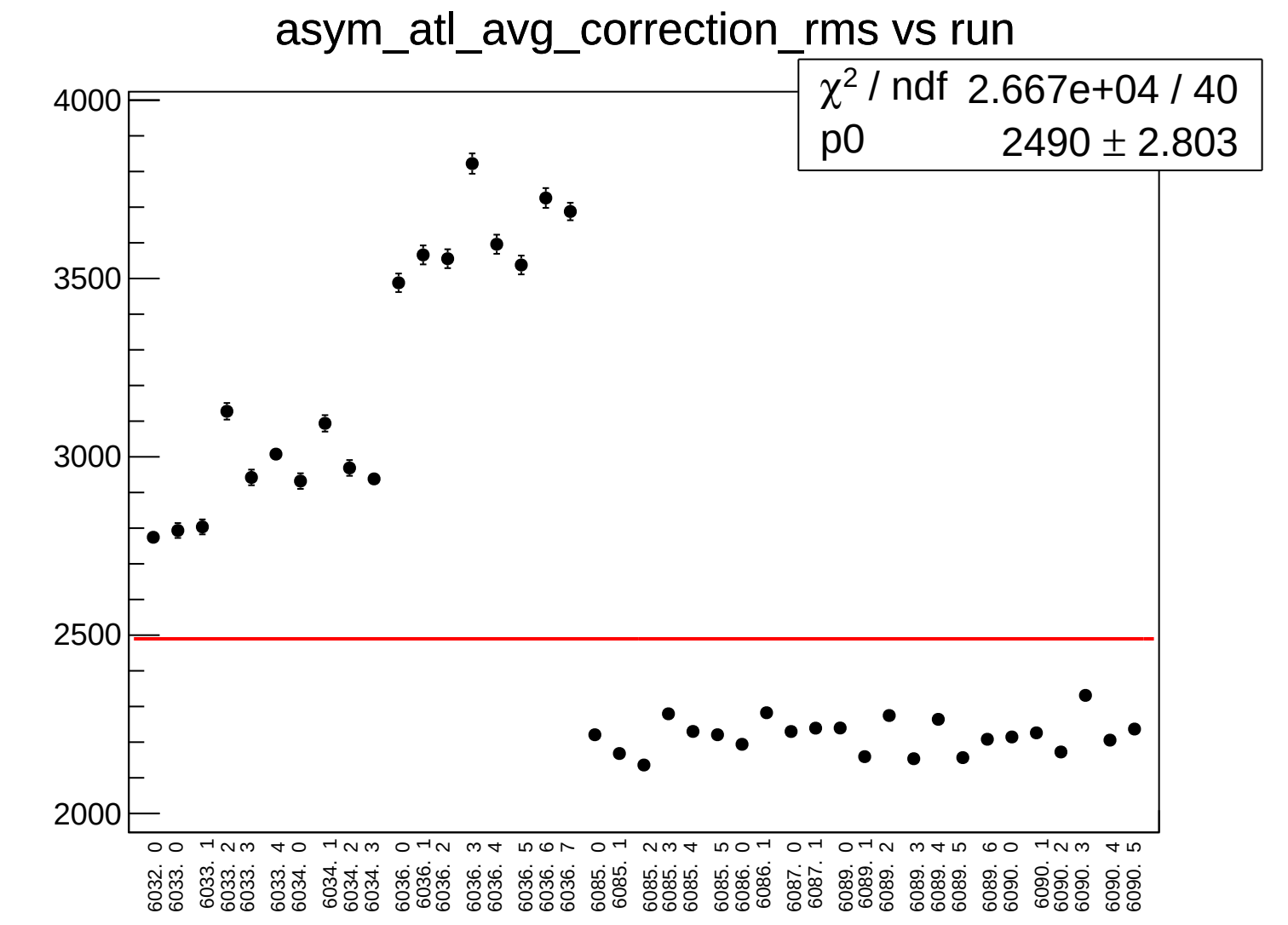

dit_asym_atl_avg_mean vs run
χ² / ndf 36.87 / 40
p0 −4264 ± 2572
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 750.8
Std Dev 729.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

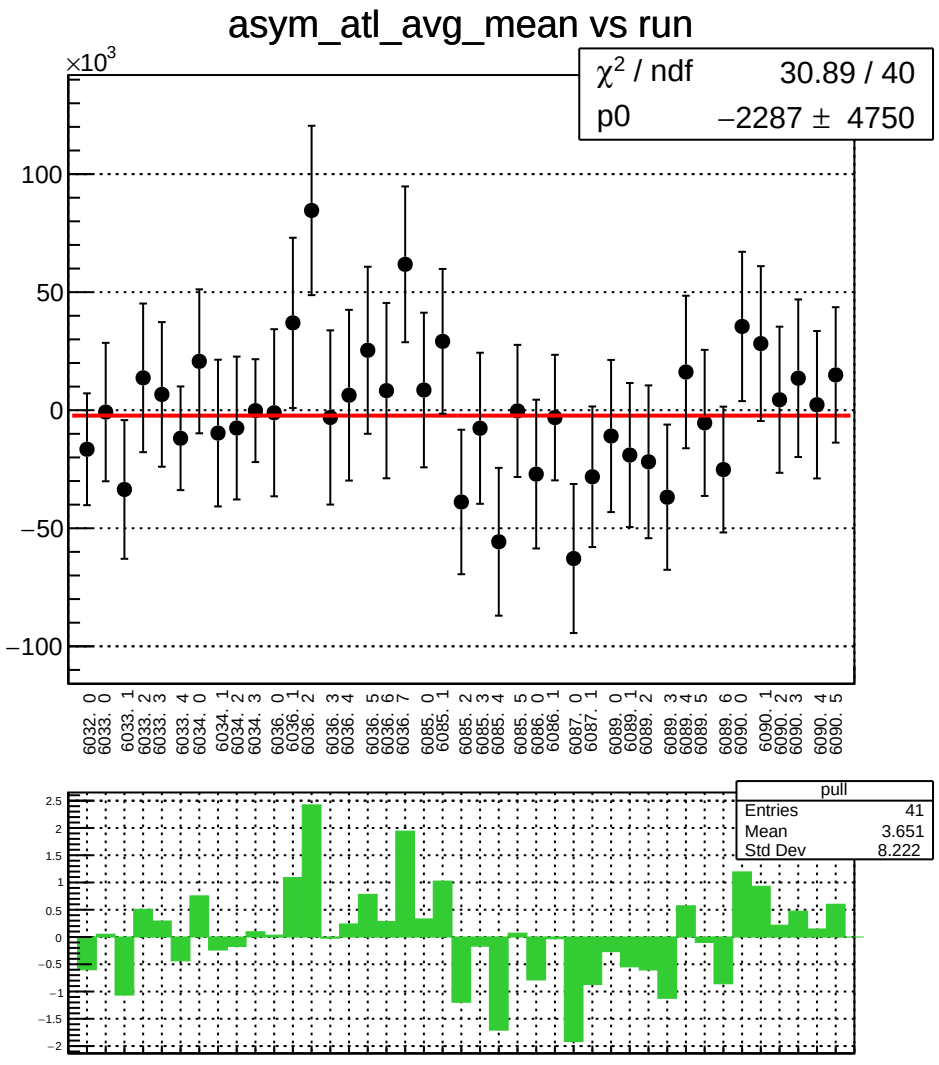

pull1D
Entries 41
Mean 0.002941
Std Dev 0.9483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

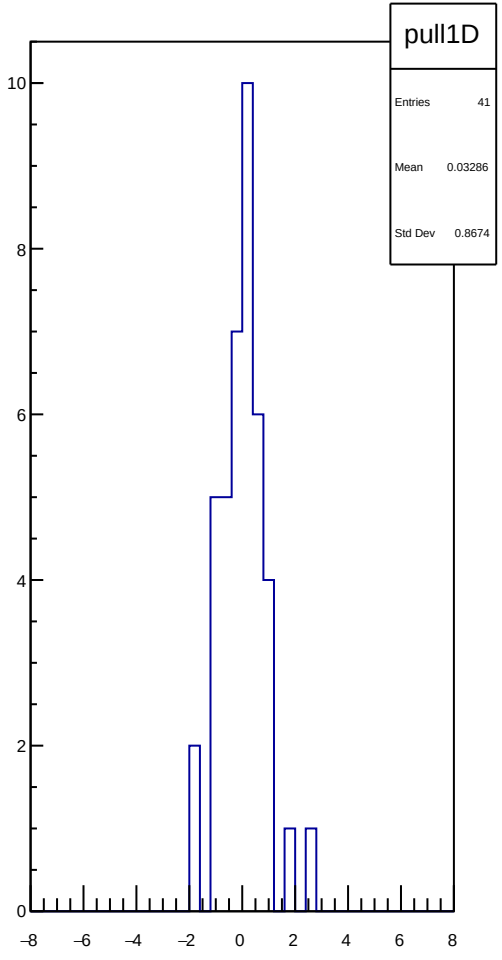

dit_asym_atl_avg_rms vs run
χ² / ndf 907.6 / 40
p0 1642 ± 1.819
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

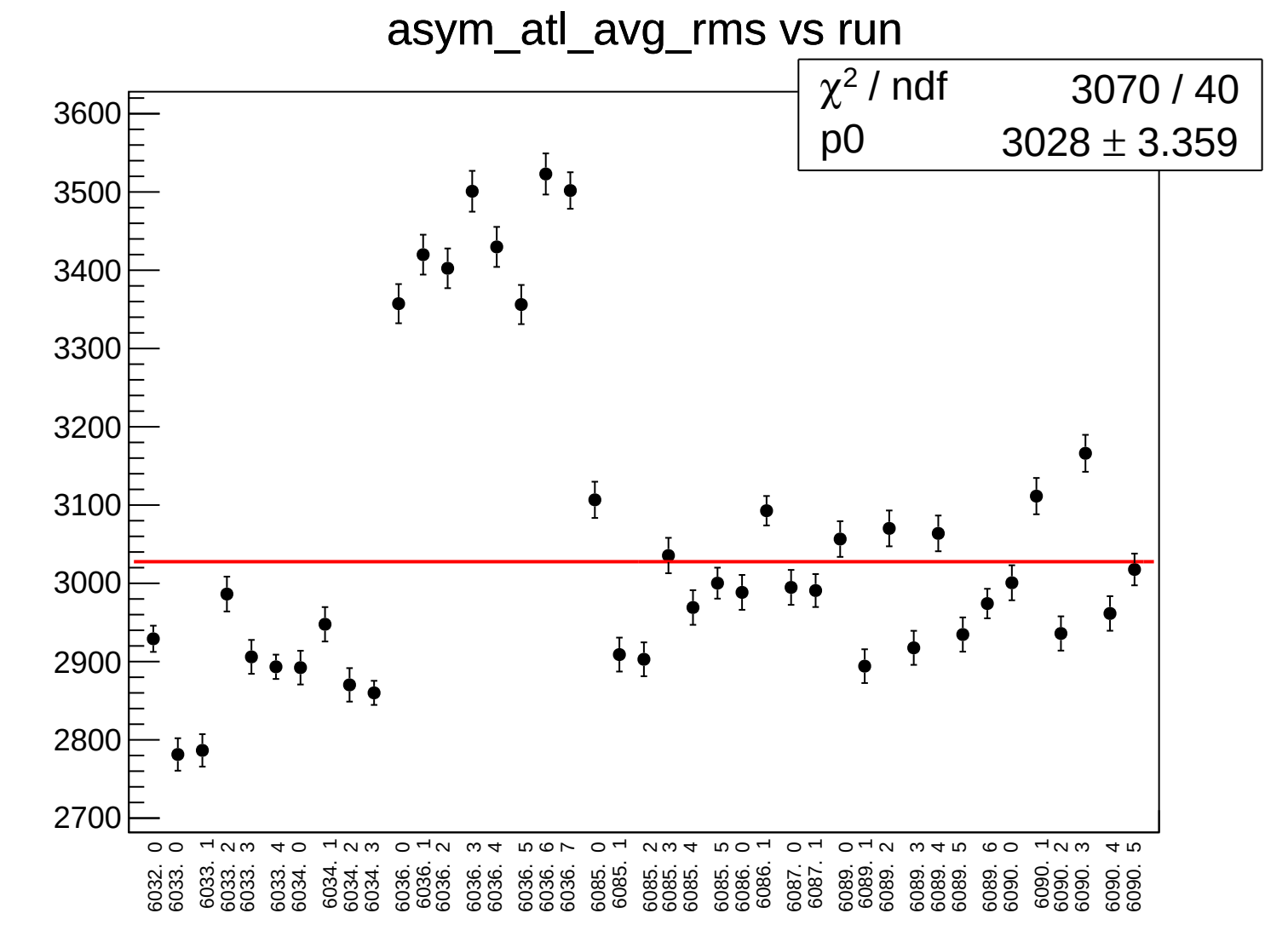

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 30.85 / 40
p0 155.1 ± 3964
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −5.038
Std Dev 18.02
2
1
0
−1
−2

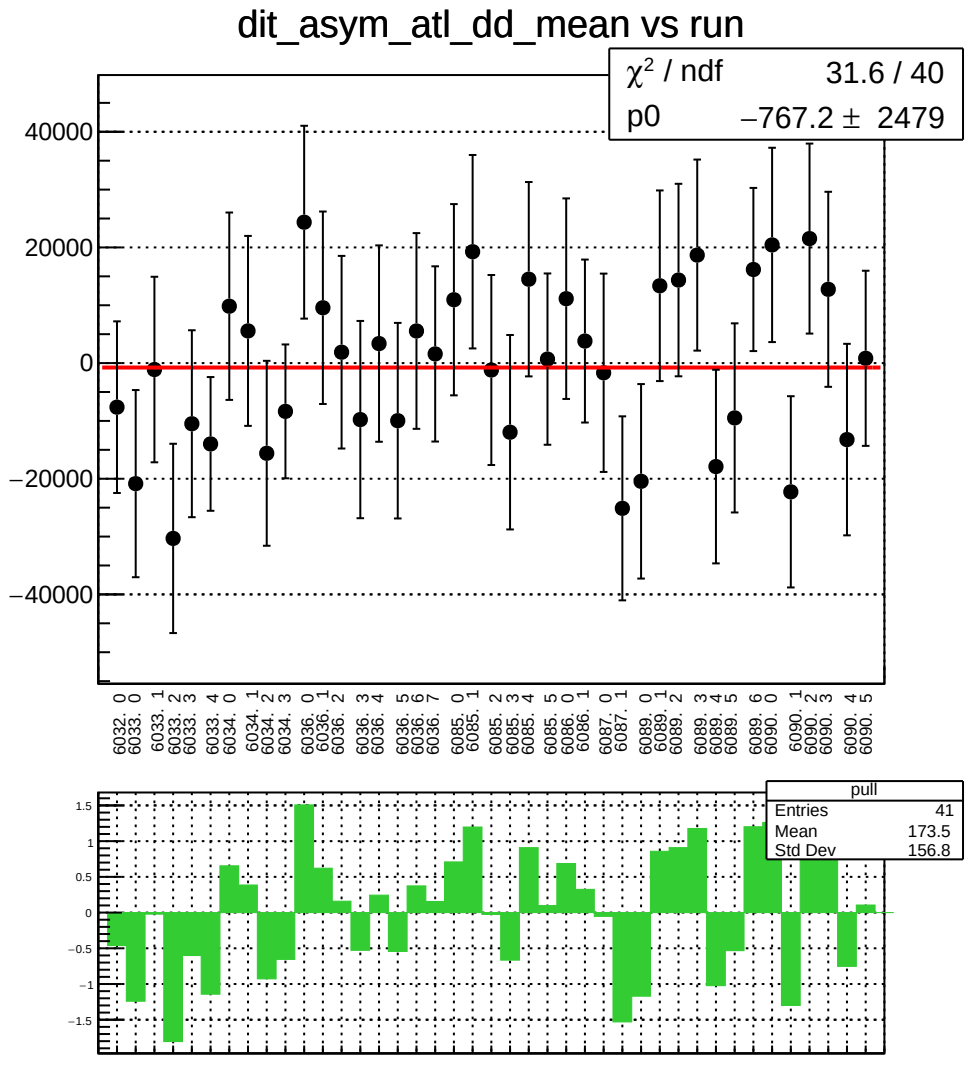

pull1D
Entries 41
Mean −0.06921
Std Dev 0.8646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

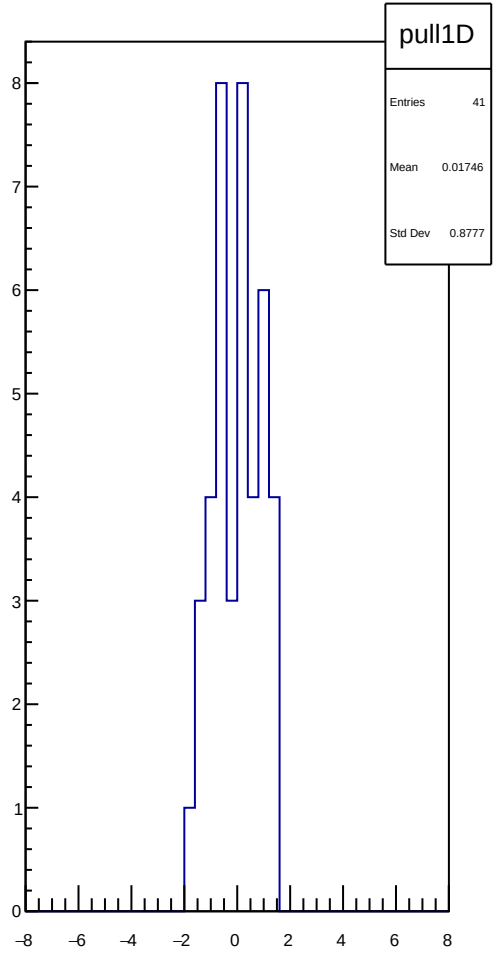

asym_atl_avg_correction_rms vs run
χ² / ndf 2.667e+04 / 40
p0 2490 ± 2.803
4000
3500
3000
2500
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

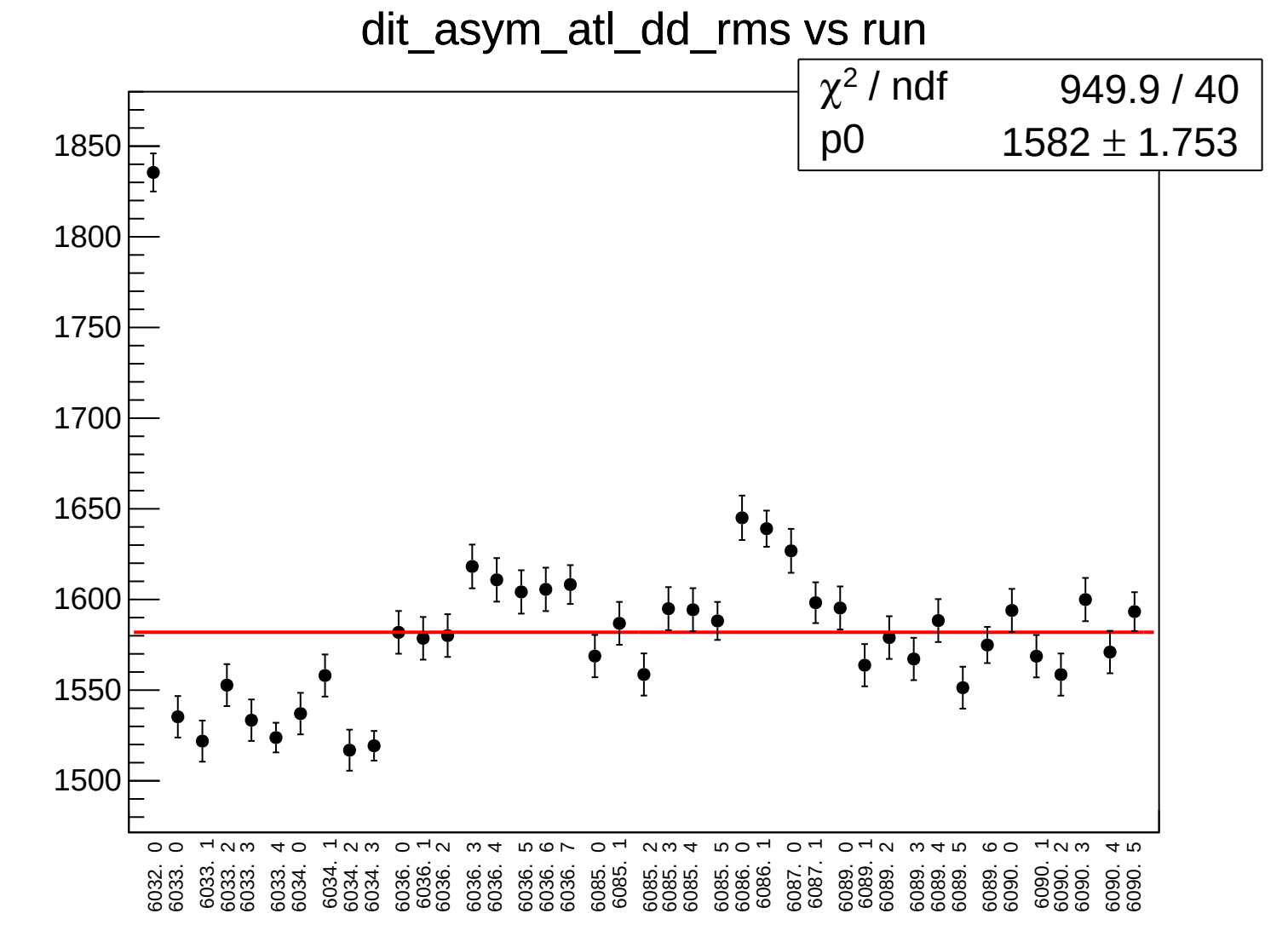

asym_atl_avg_mean vs run
×10^3
χ² / ndf 30.89 / 40
p0 −2287 ± 4750
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 3.651
Std Dev 8.222
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

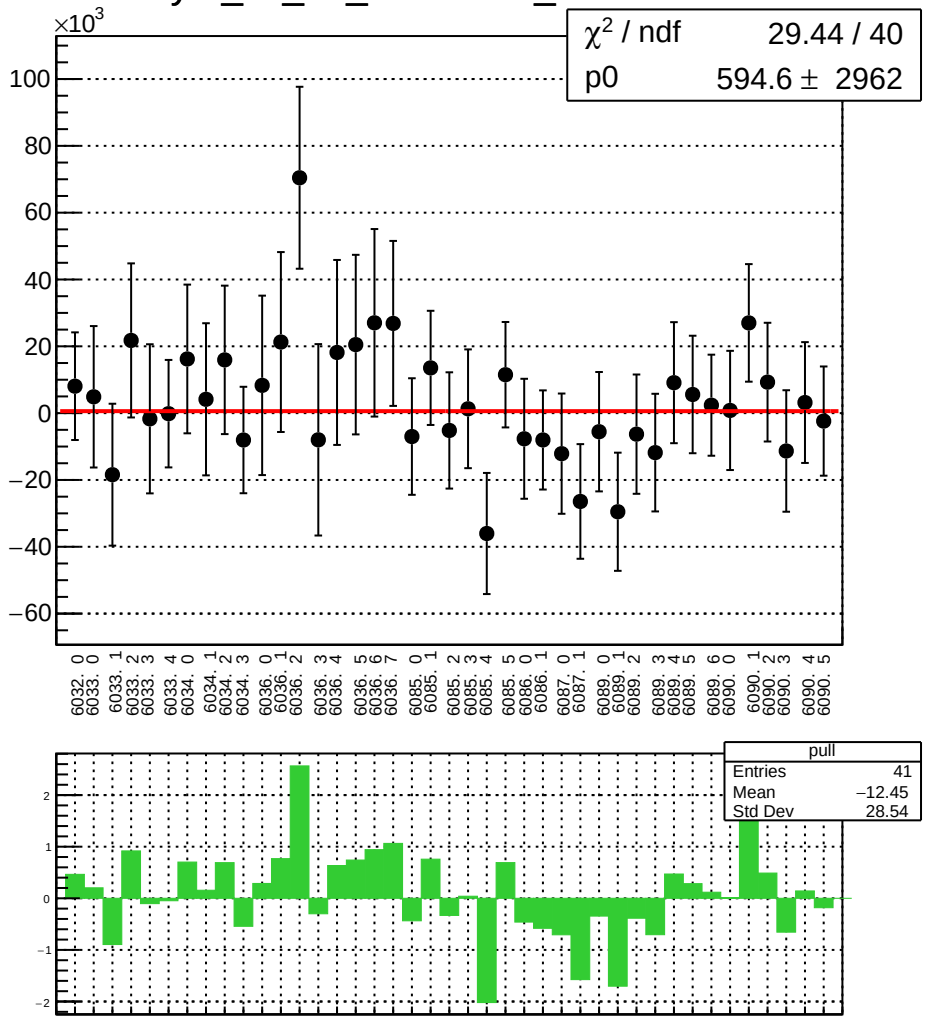

pull1D
Entries 41
Mean 0.03286
Std Dev 0.8674
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

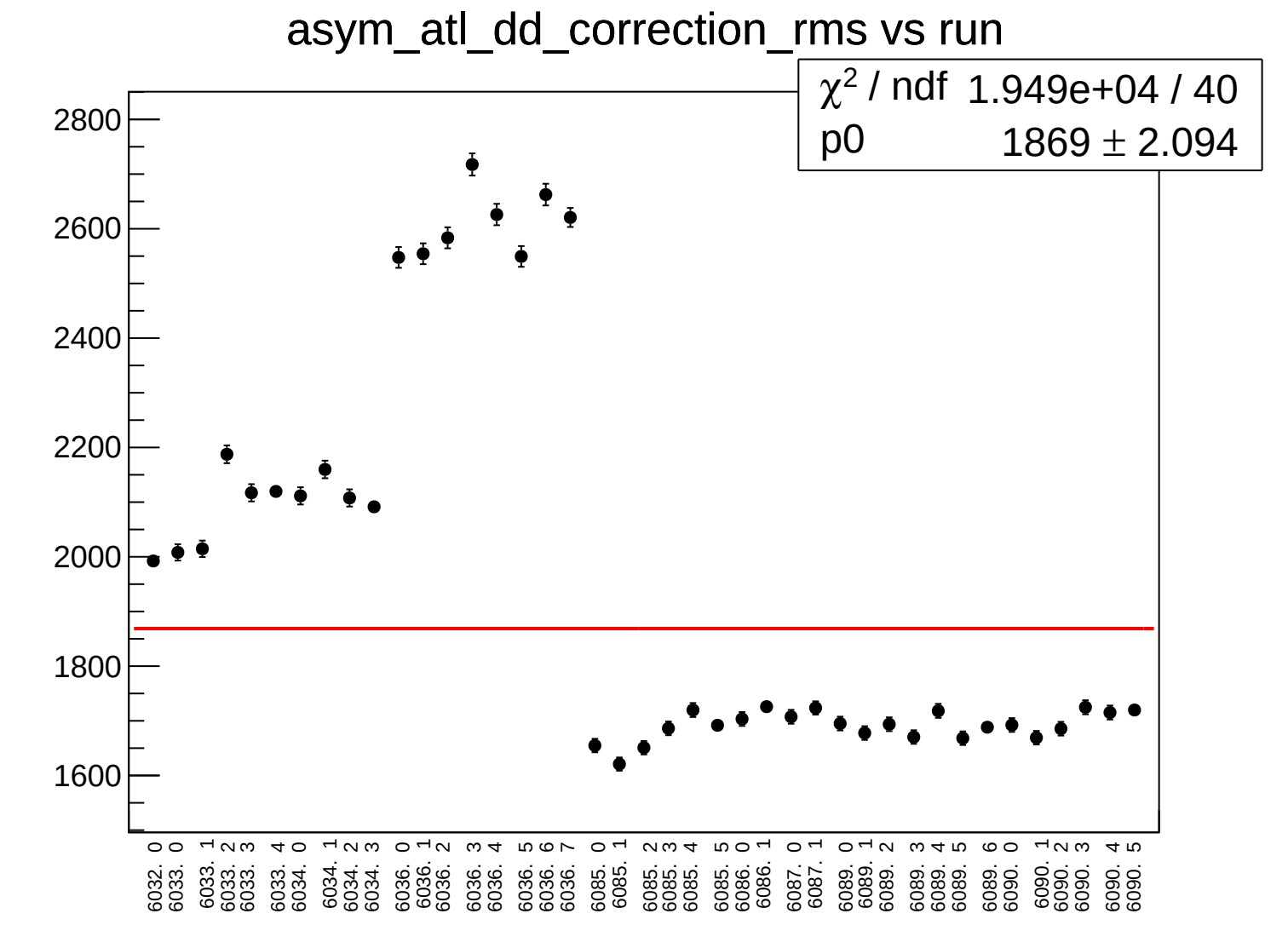

asym_atl_avg_rms vs run
χ² / ndf 3070 / 40
p0 3028 ± 3.359
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

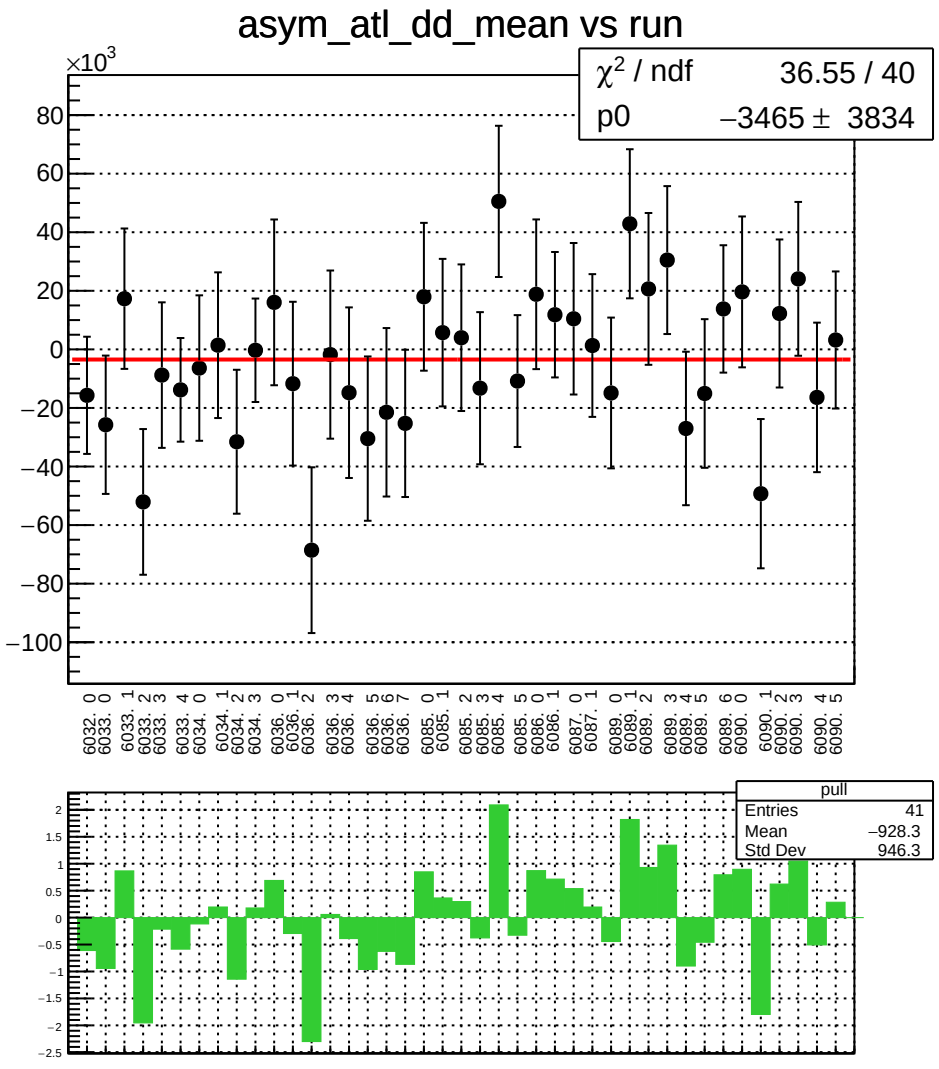

dit_asym_atl_dd_mean vs run
χ² / ndf 31.6 / 40
p0 −767.2 ± 2479
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 173.5
Std Dev 156.8
1.5
1
0.5
0
−0.5
−1
−1.5

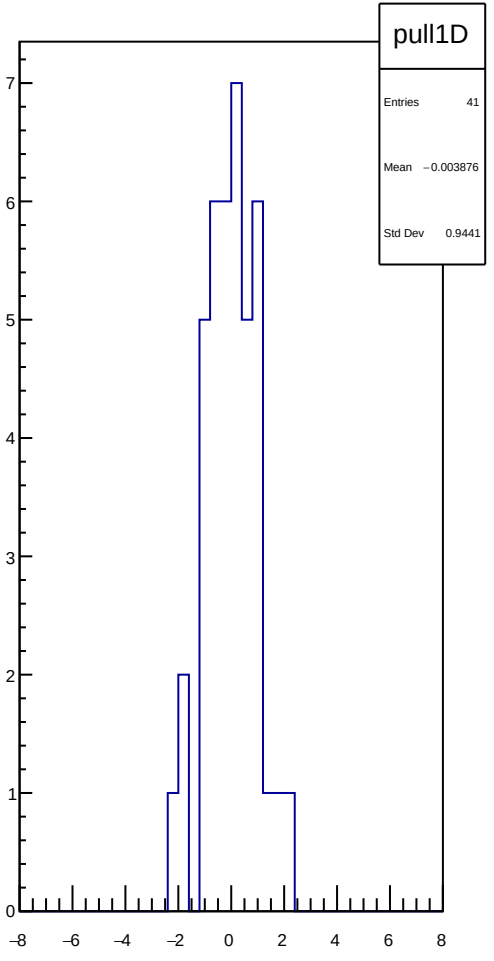

pull1D
Entries 41
Mean 0.01746
Std Dev 0.8777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

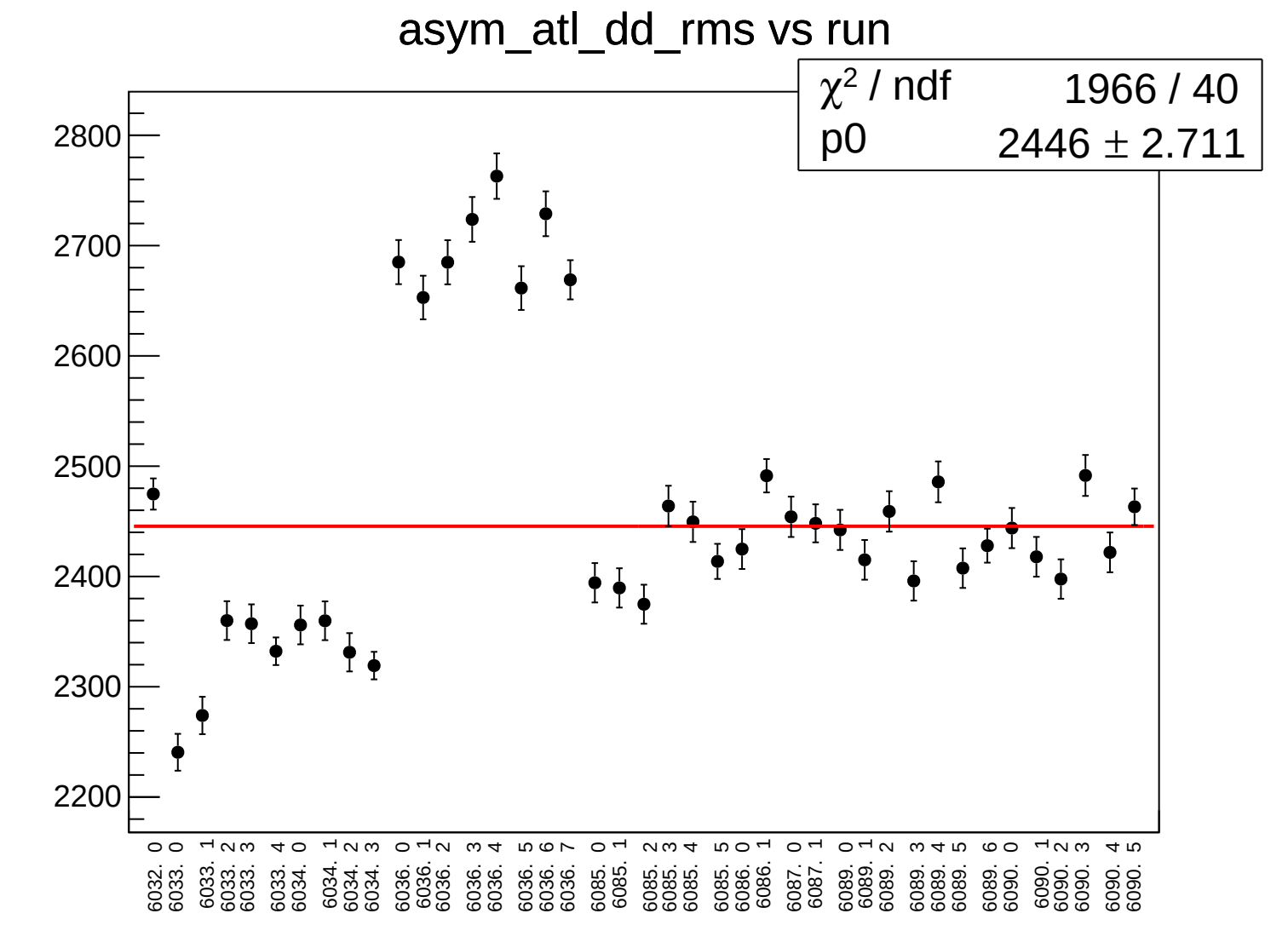

dit_asym_atl_dd_rms vs run
χ² / ndf 949.9 / 40
p0 1582 ± 1.753
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

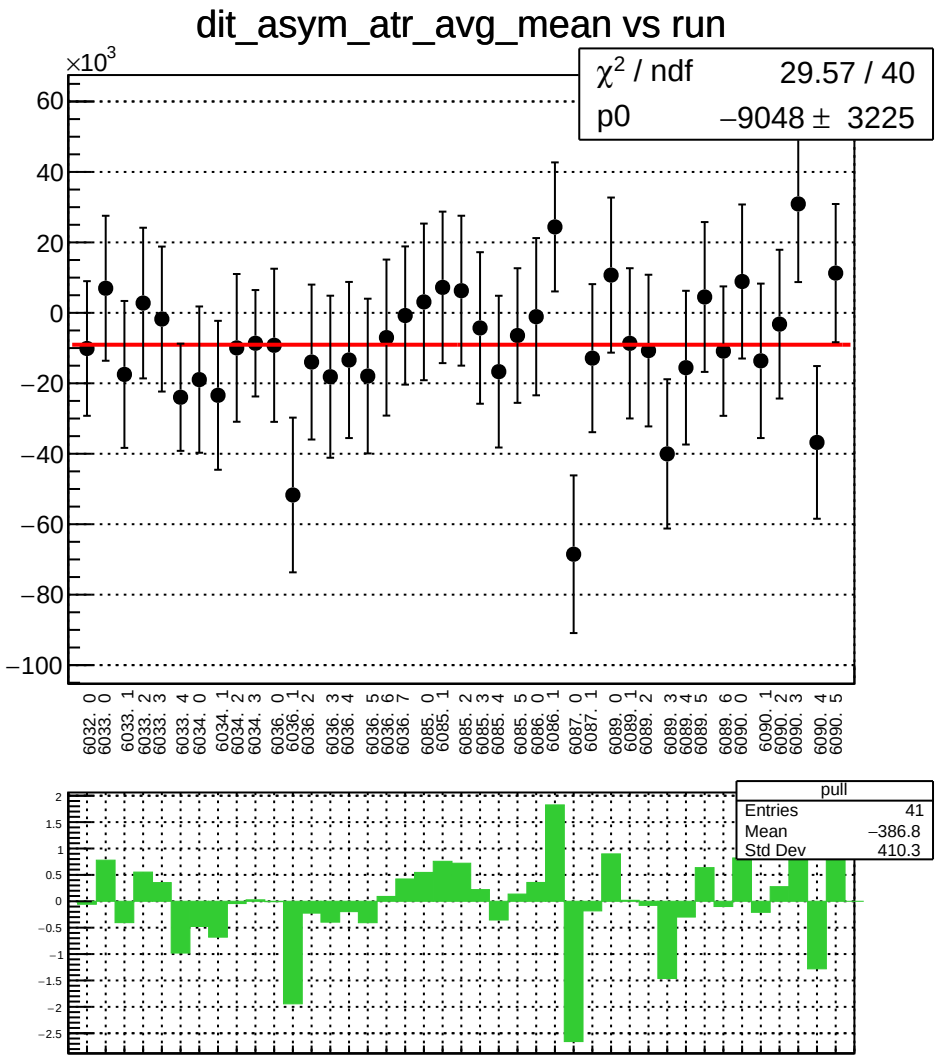

asym_atl_dd_correction_mean vs run
×10^3
χ^2 / ndf 29.44 / 40
p0 594.6 ± 2962
100
80
60
40
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −12.45
Std Dev 28.54
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.06507
Std Dev 0.8448
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

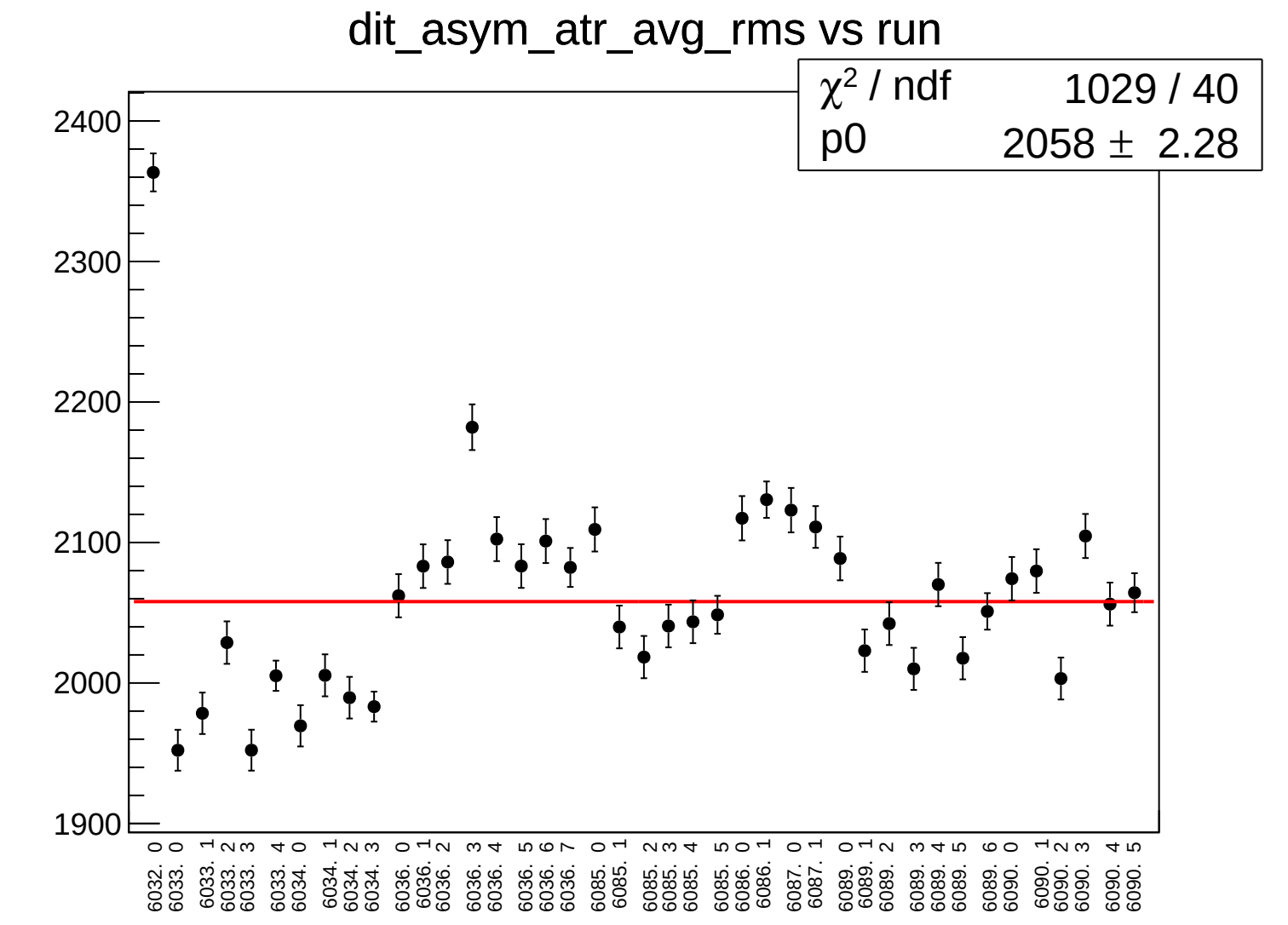

asym_atl_dd_correction_rms vs run
χ² / ndf 1.949e+04 / 40
p0 1869 ± 2.094
2800
2600
2400
2200
2000
1800
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

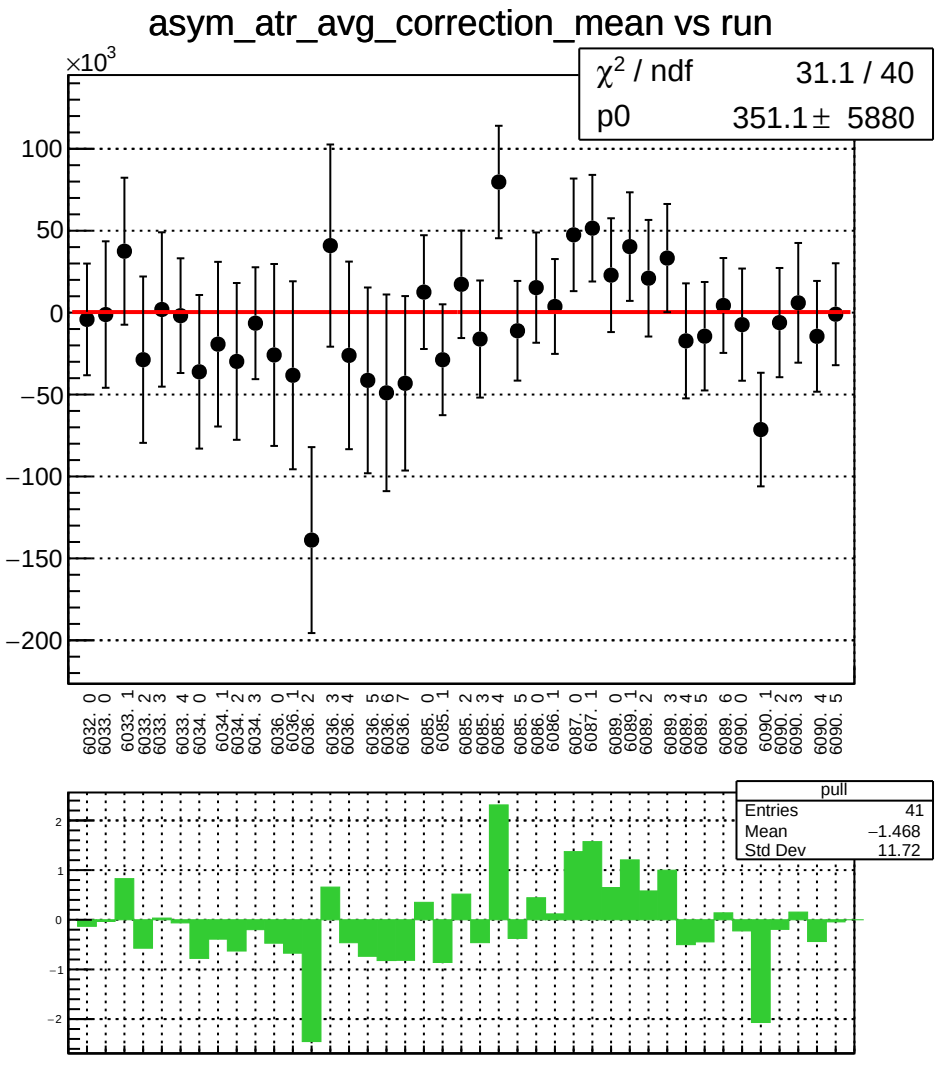

asym_atl_dd_mean vs run
×10^3
χ² / ndf 36.55 / 40
p0 −3465 ± 3834
pull
Entries 41
Mean −928.3
Std Dev 946.3

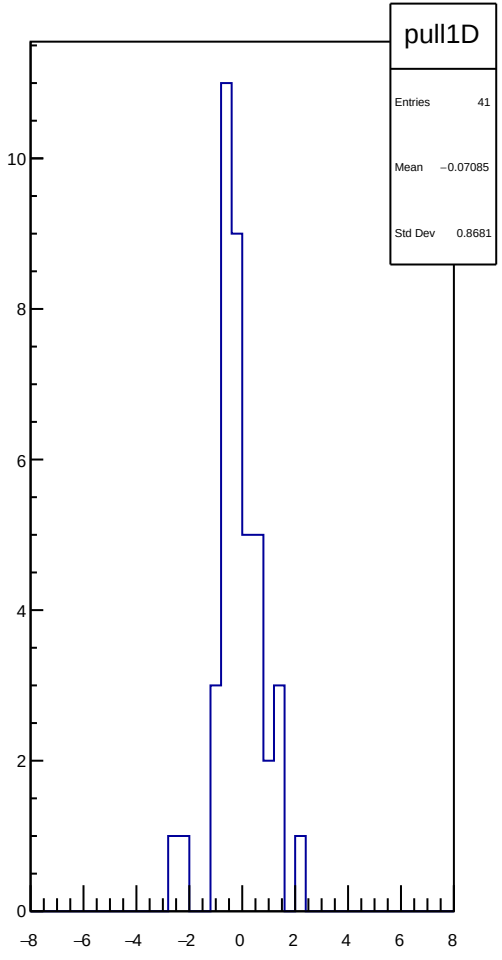

pull1D
Entries 41
Mean −0.003876
Std Dev 0.9441

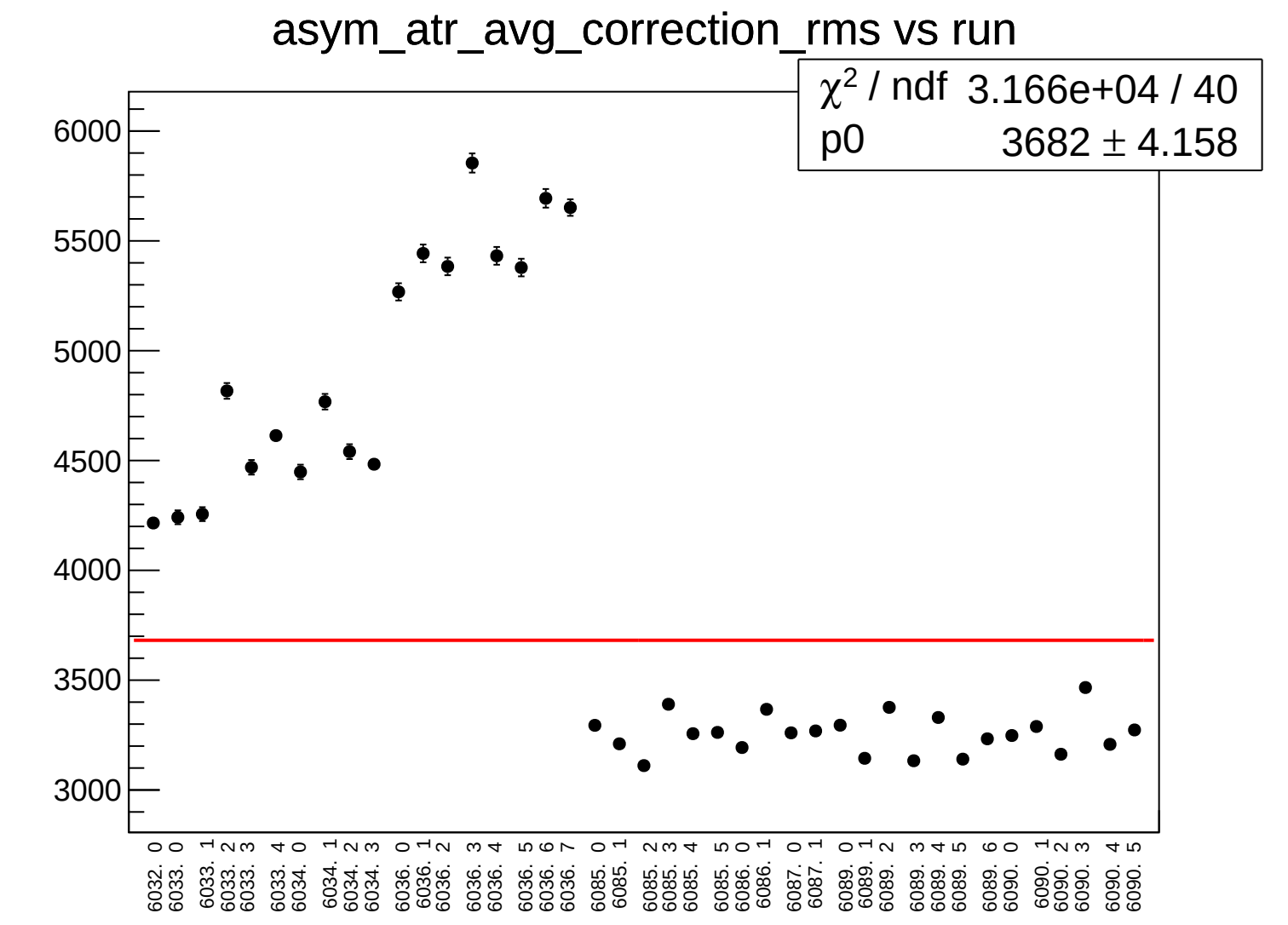

asym_atl_dd_rms vs run
χ² / ndf 1966 / 40
p0 2446 ± 2.711
2800
2700
2600
2500
2400
2300
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

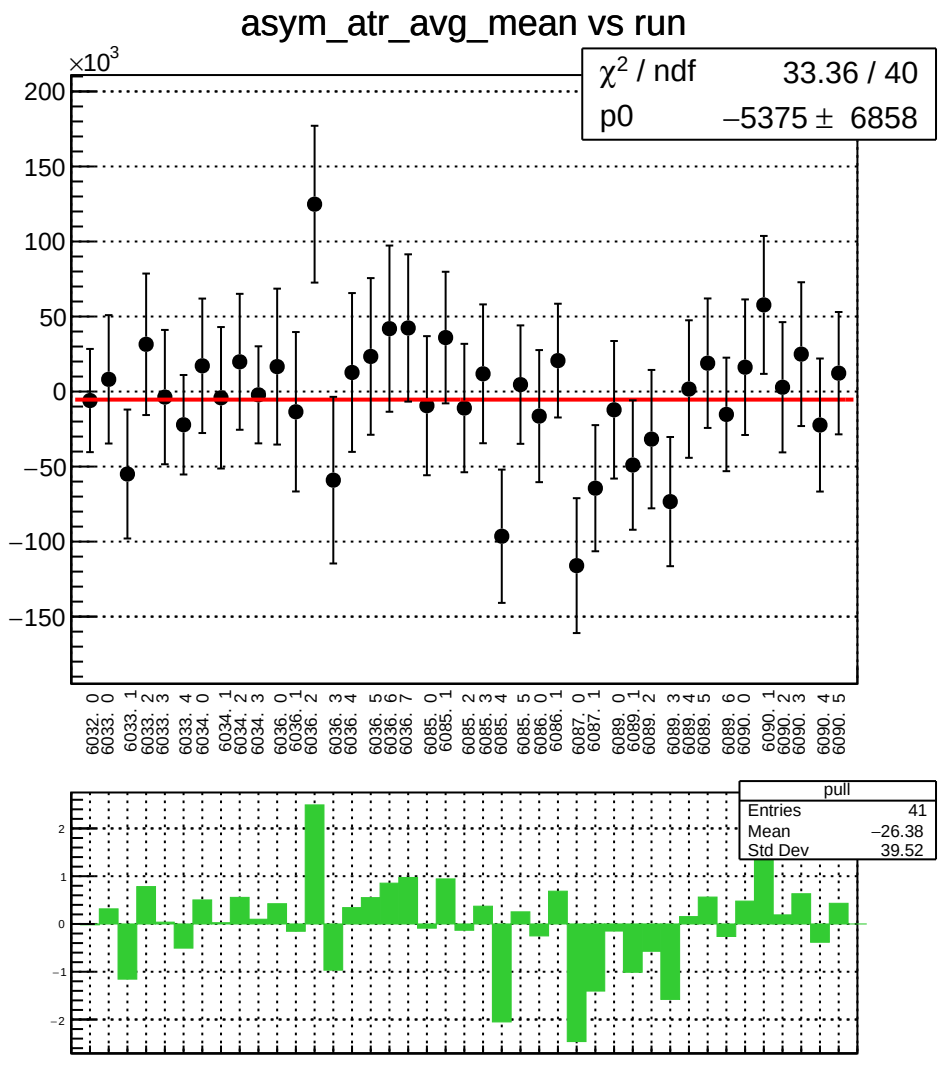

dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 29.57 / 40
p0 −9048 ± 3225
60
40
20
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −386.8
Std Dev 410.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.003615
Std Dev 0.8493
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

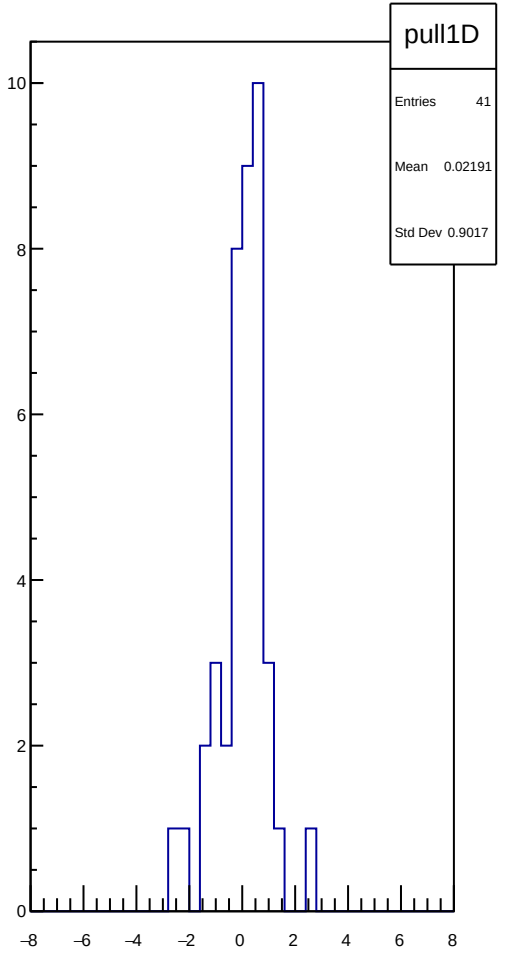

dit_asym_atr_avg_rms vs run
χ² / ndf 1029 / 40
p0 2058 ± 2.28
2400
2300
2200
2100
2000
1900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

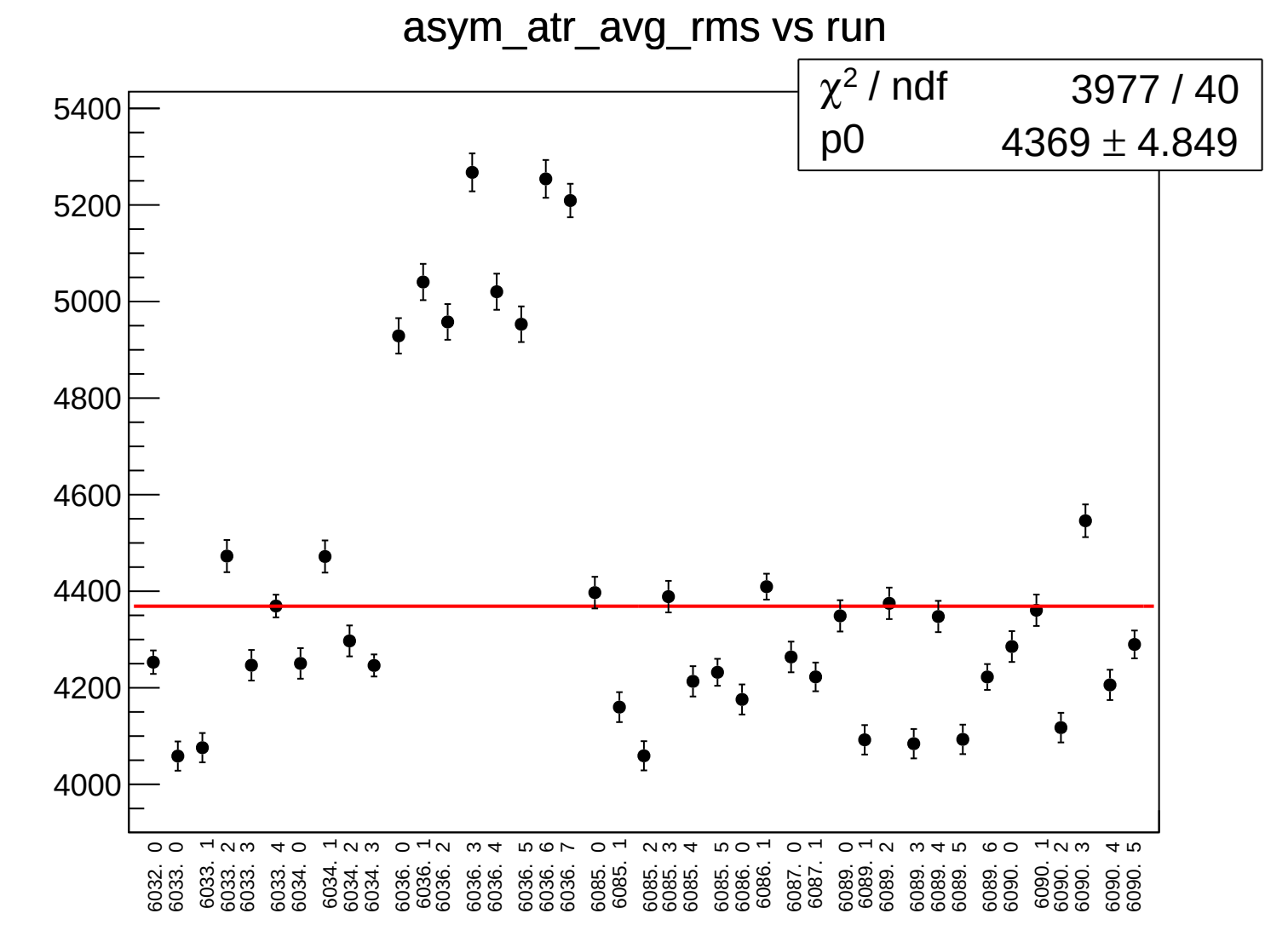

asym_atr_avg_correction_mean vs run
χ^2 / ndf 31.1 / 40
p0 351.1 ± 5880
×10^3
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −1.468
Std Dev 11.72
2
1
0
−1
−2

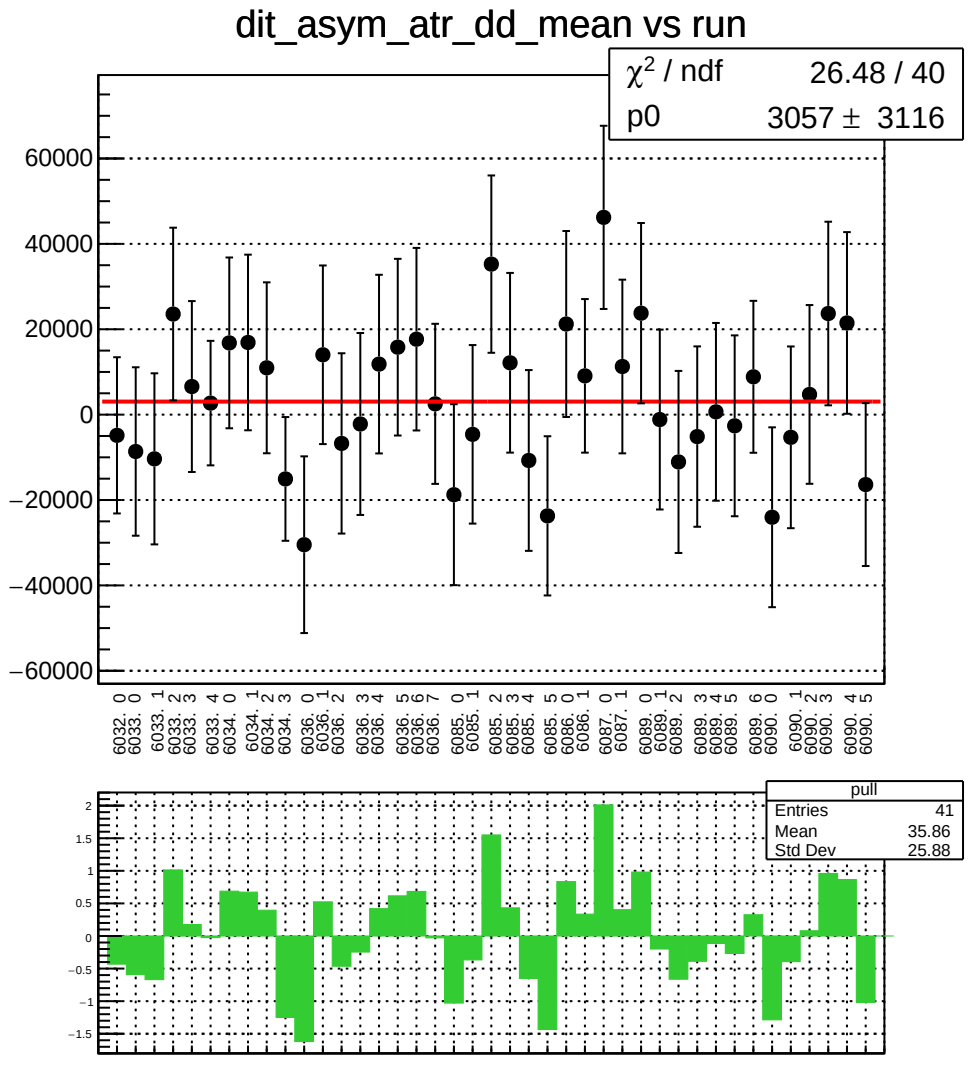

pull1D
Entries 41
Mean −0.07085
Std Dev 0.8681
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

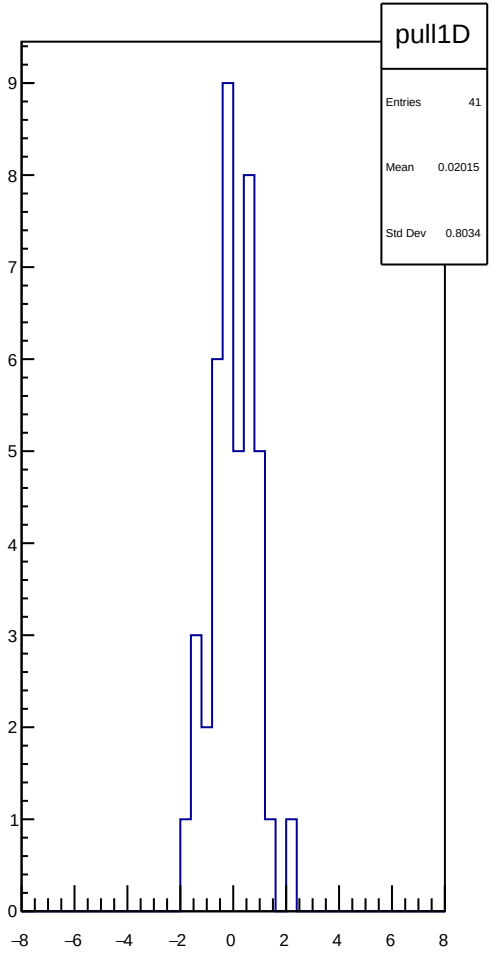

asym_atr_avg_correction_rms vs run
χ² / ndf 3.166e+04 / 40
p0 3682 ± 4.158
6000
5500
5000
4500
4000
3500
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

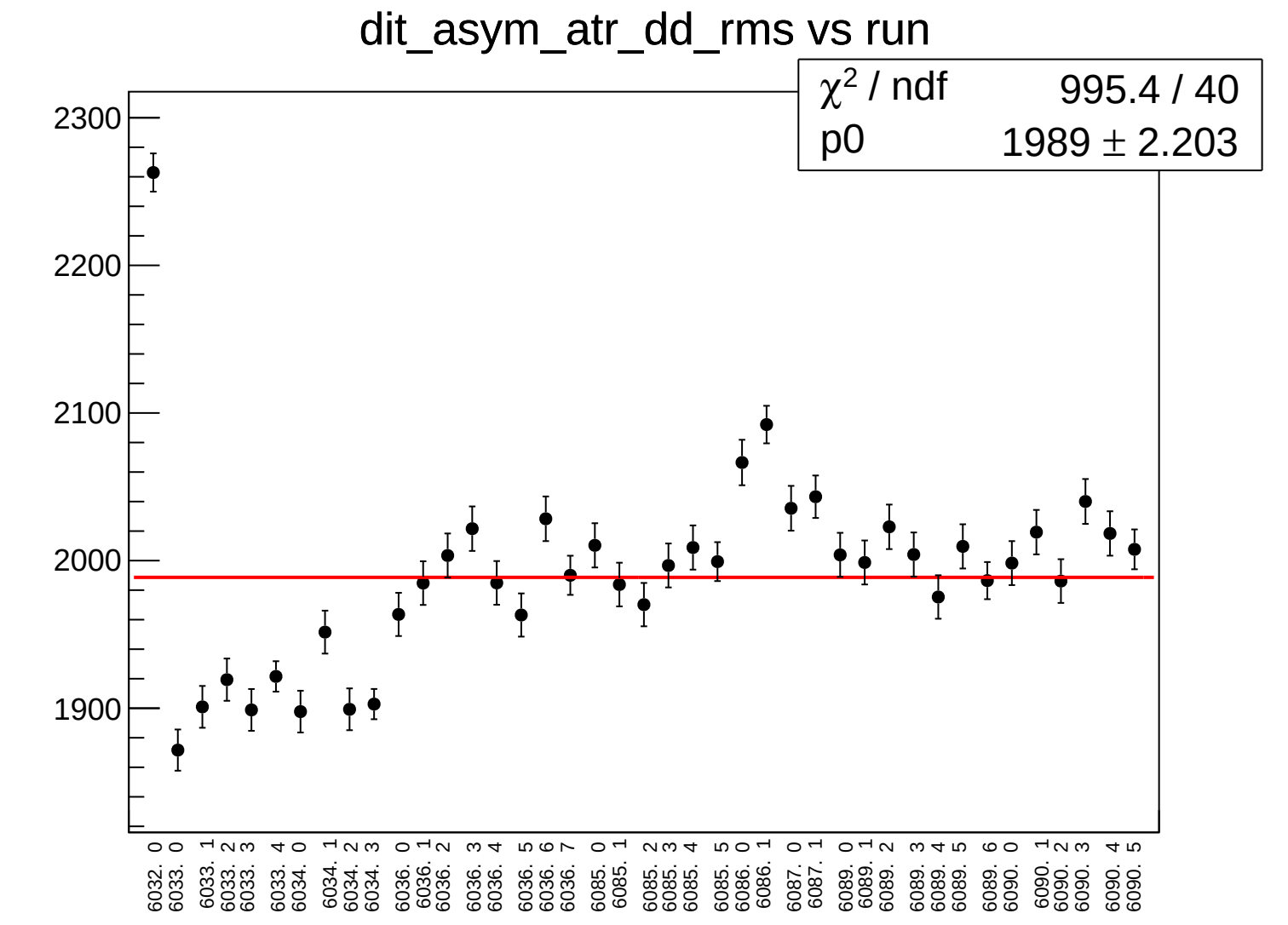

asym_atr_avg_mean vs run
×10^3
χ² / ndf 33.36 / 40
p0 −5375 ± 6858
200
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −26.38
Std Dev 39.52
2
1
0
−1
−2

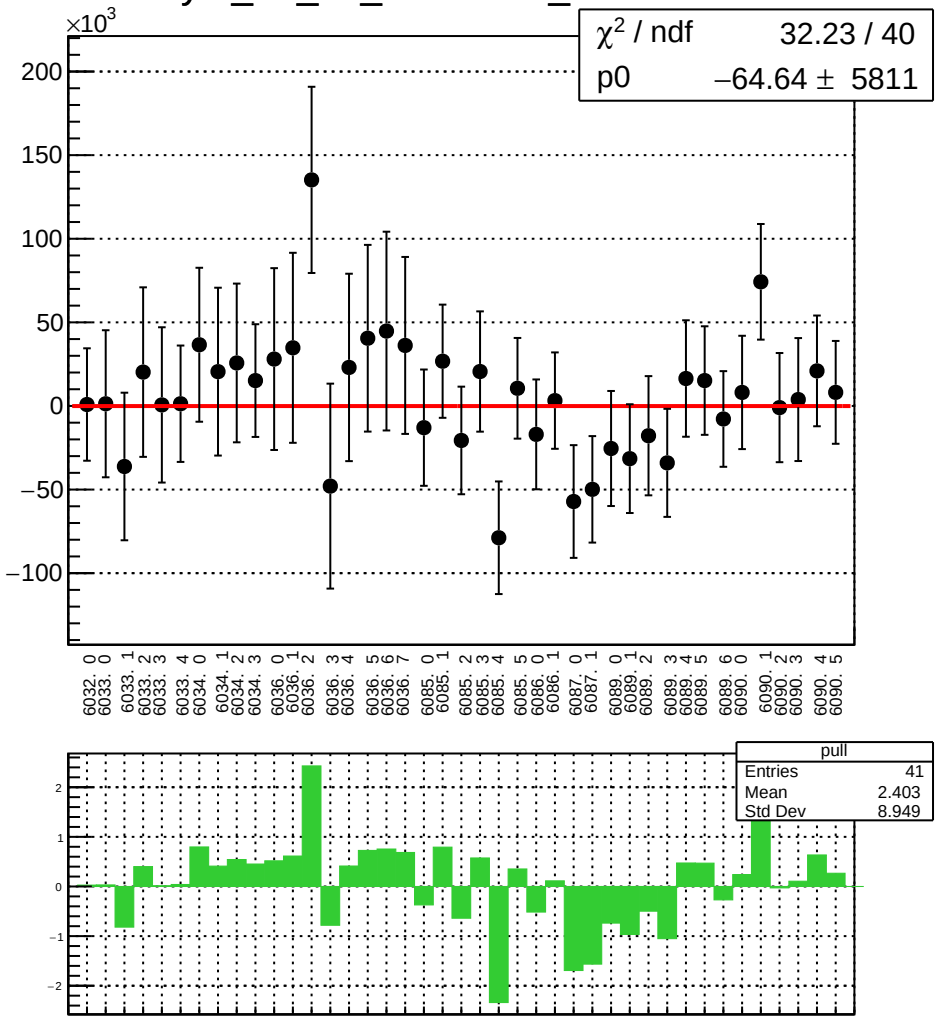

pull1D
Entries 41
Mean 0.02191
Std Dev 0.9017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

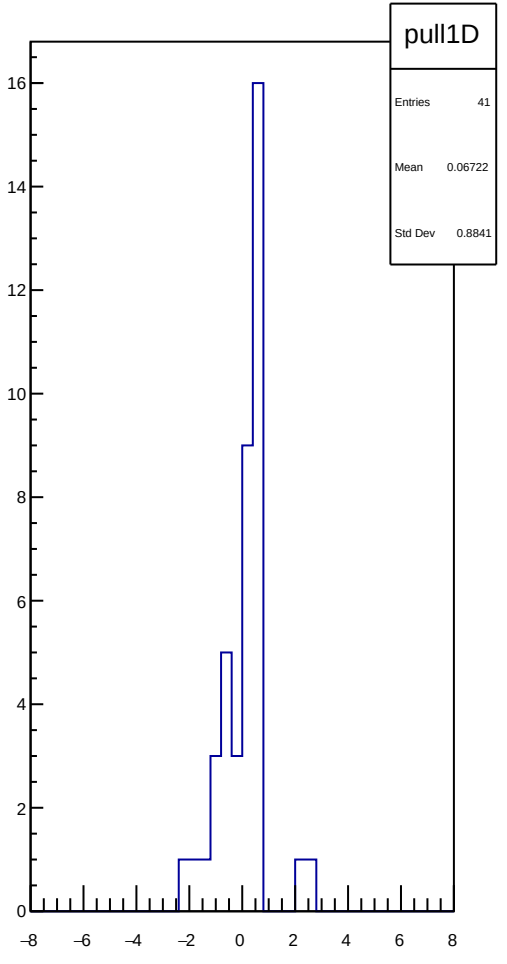

asym_atr_avg_rms vs run
χ² / ndf 3977 / 40
p0 4369 ± 4.849
5400
5200
5000
4800
4600
4400
4200
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

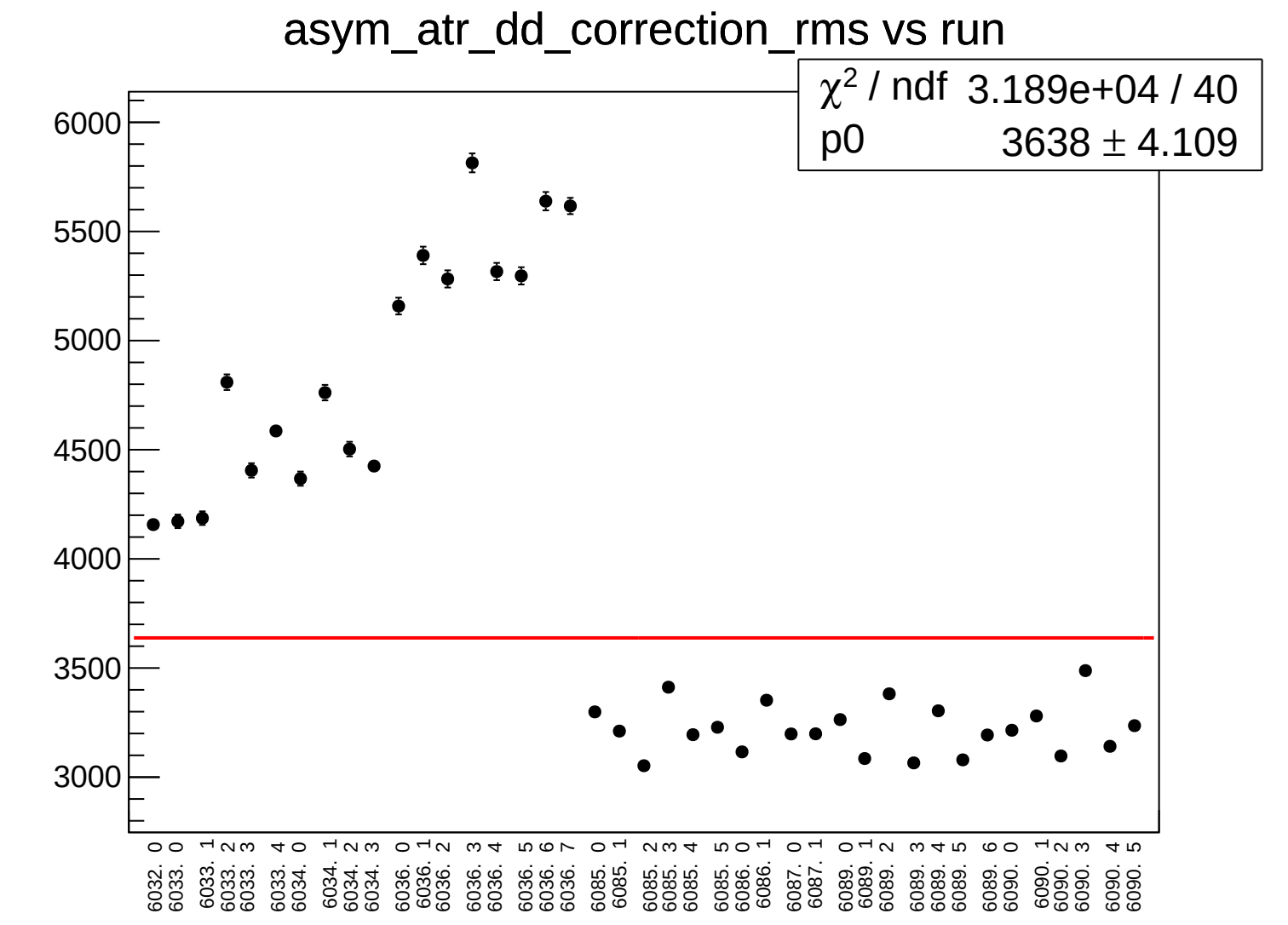

dit_asym_atr_dd_mean vs run
χ² / ndf 26.48 / 40
p0 3057 ± 3116
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 35.86
Std Dev 25.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

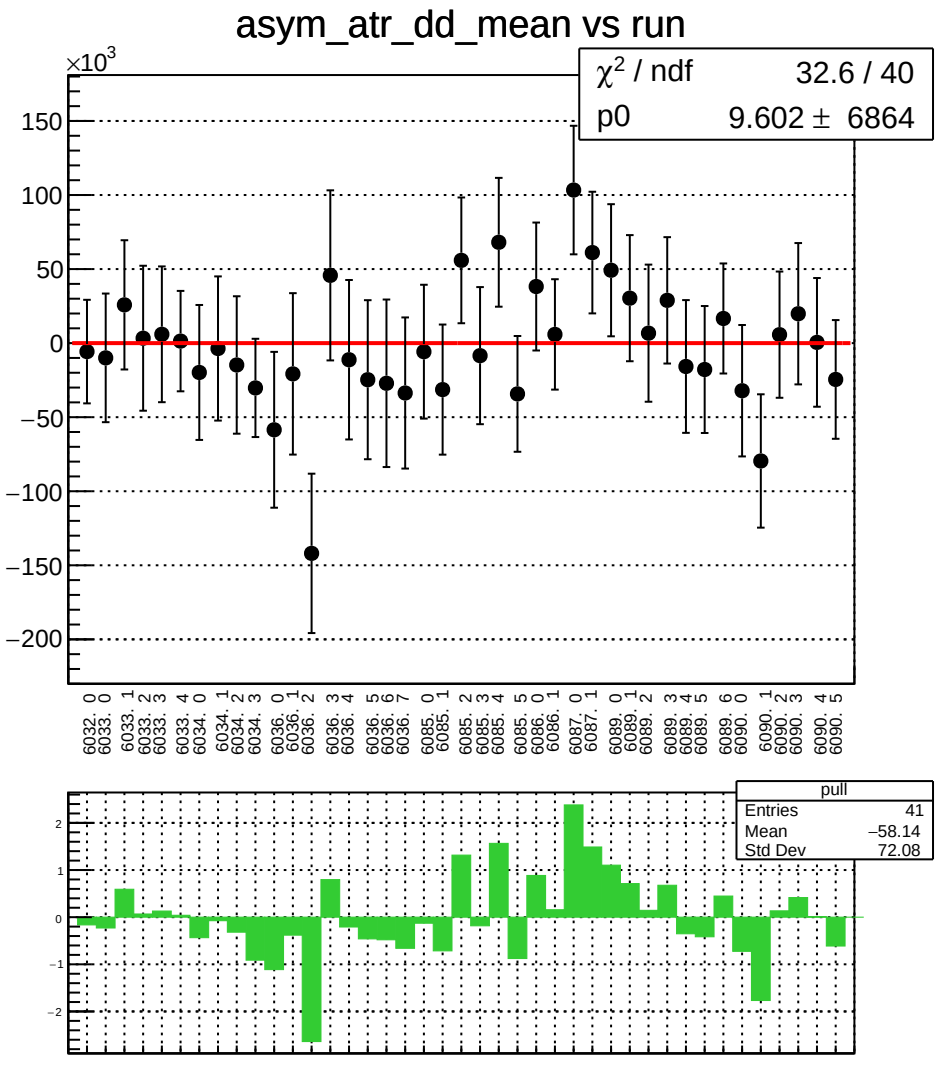

pull1D
Entries 41
Mean 0.02015
Std Dev 0.8034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

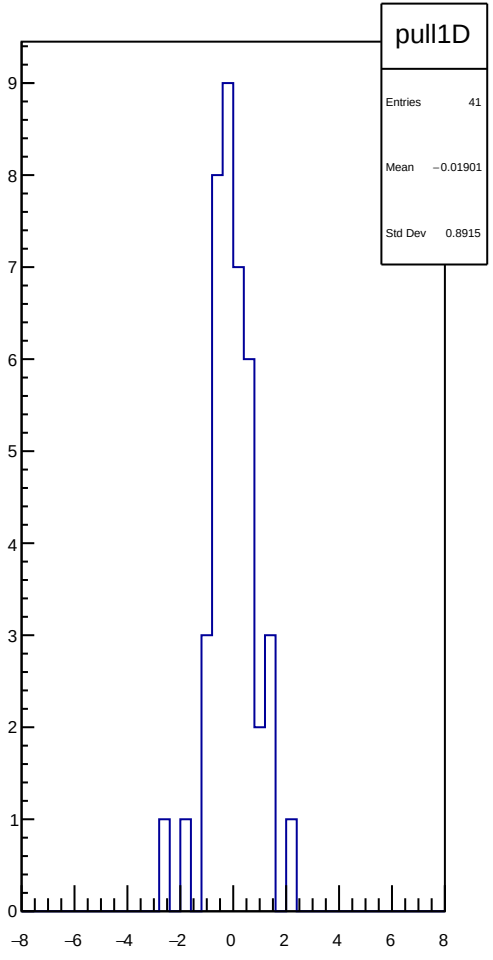

dit_asym_atr_dd_rms vs run
χ² / ndf 995.4 / 40
p0 1989 ± 2.203
2300
2200
2100
2000
1900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

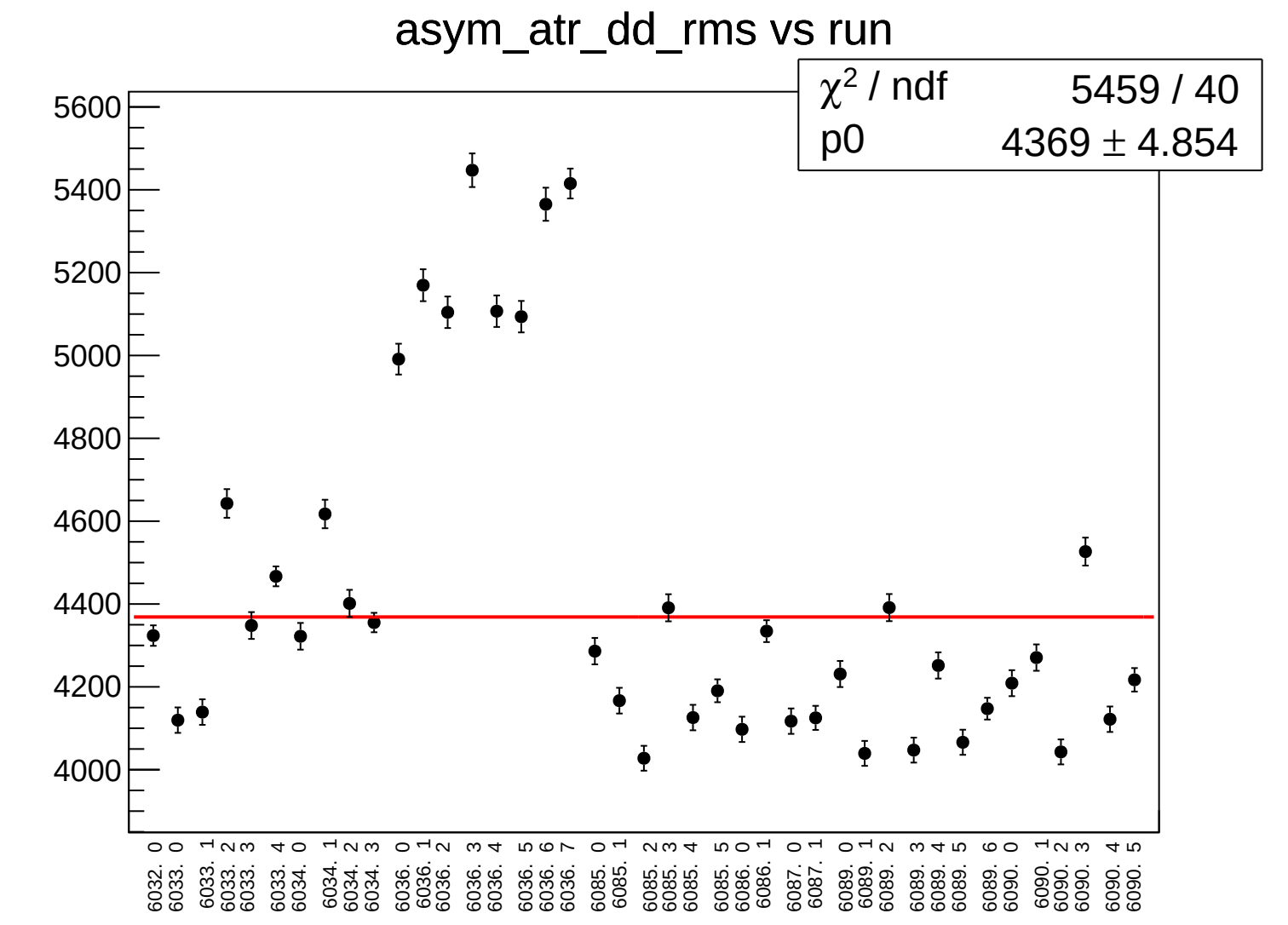

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 32.23 / 40
p0 −64.64 ± 5811
200
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 2.403
Std Dev 8.949
2
1
0
−1
−2

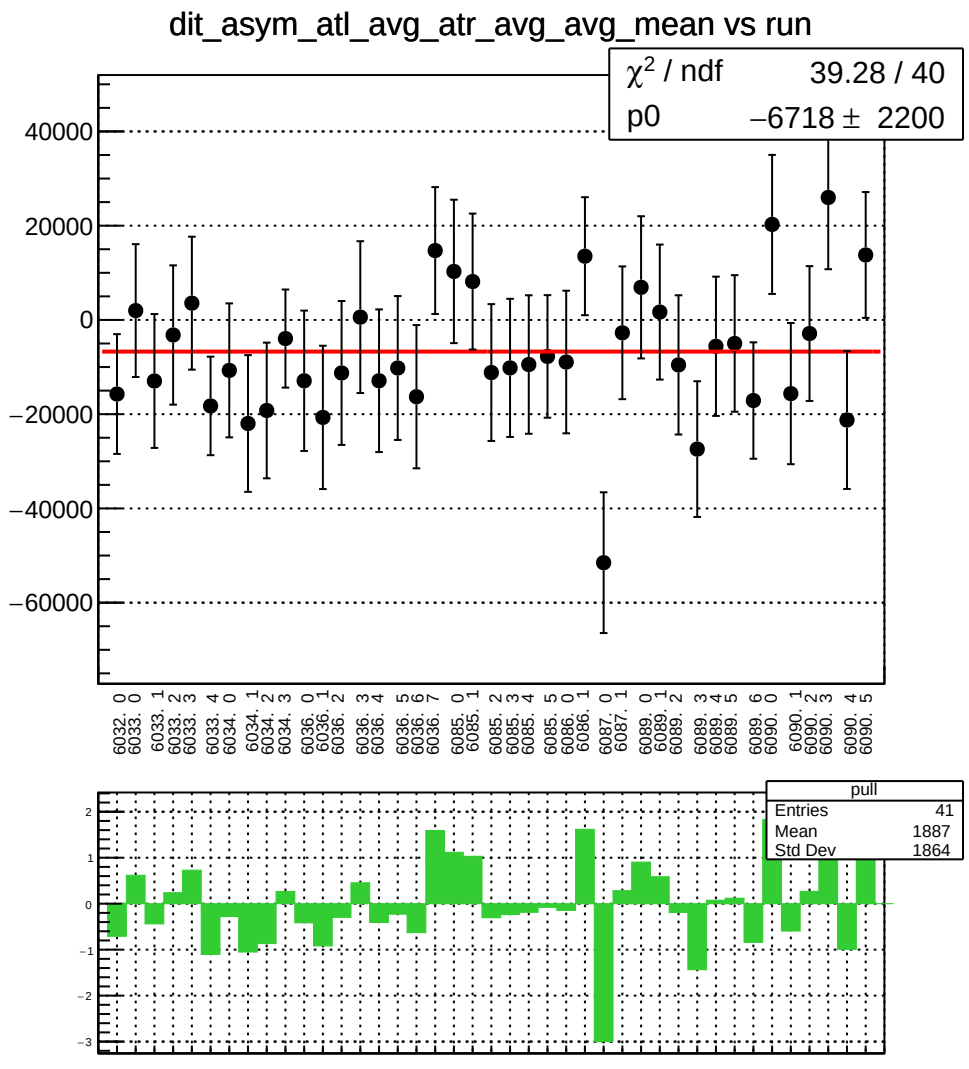

pull1D
Entries 41
Mean 0.06722
Std Dev 0.8841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

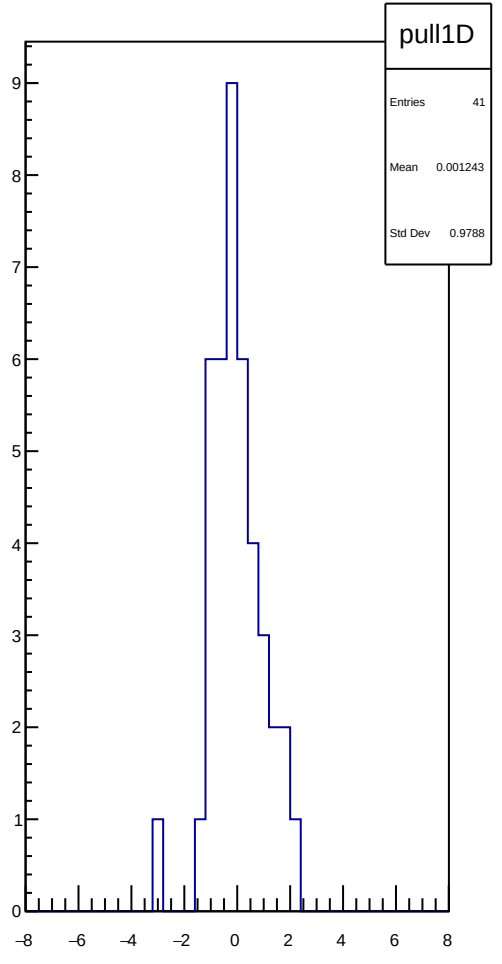

asym_atr_dd_correction_rms vs run
χ² / ndf 3.189e+04 / 40
p0 3638 ± 4.109
6000
5500
5000
4500
4000
3500
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

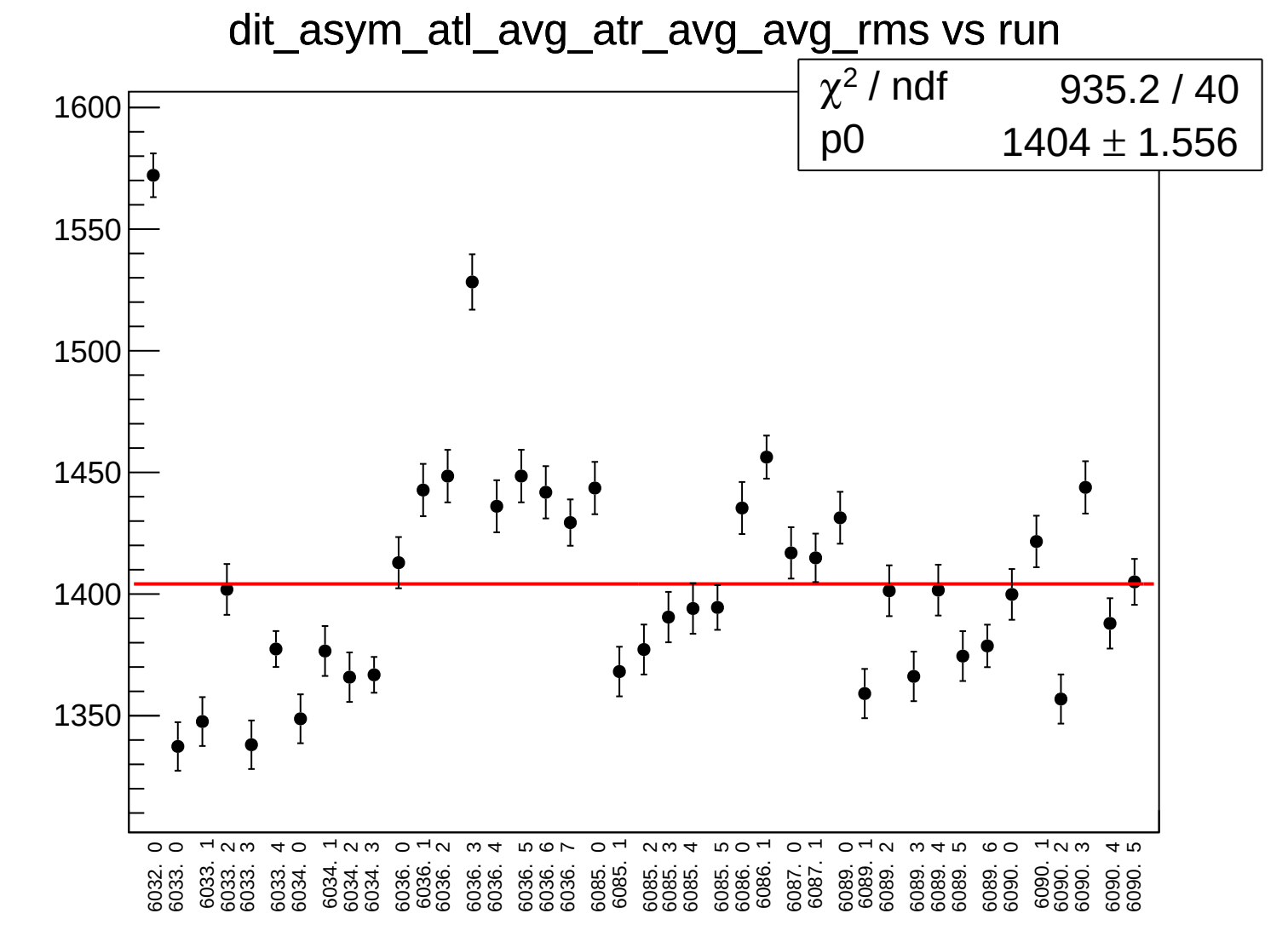

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 32.6 / 40
p0 9.602 ± 6864
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −58.14
Std Dev 72.08
2
1
0
−1
−2

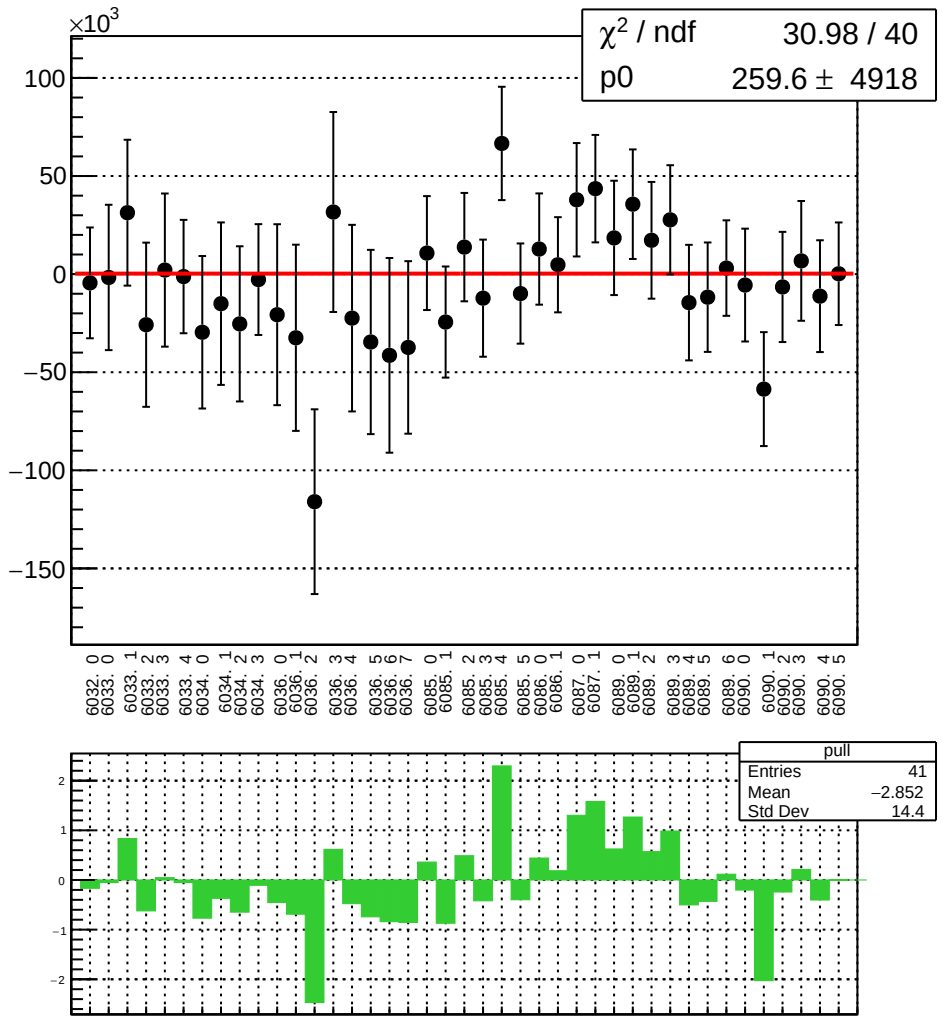

pull1D
Entries 41
Mean −0.01901
Std Dev 0.8915
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

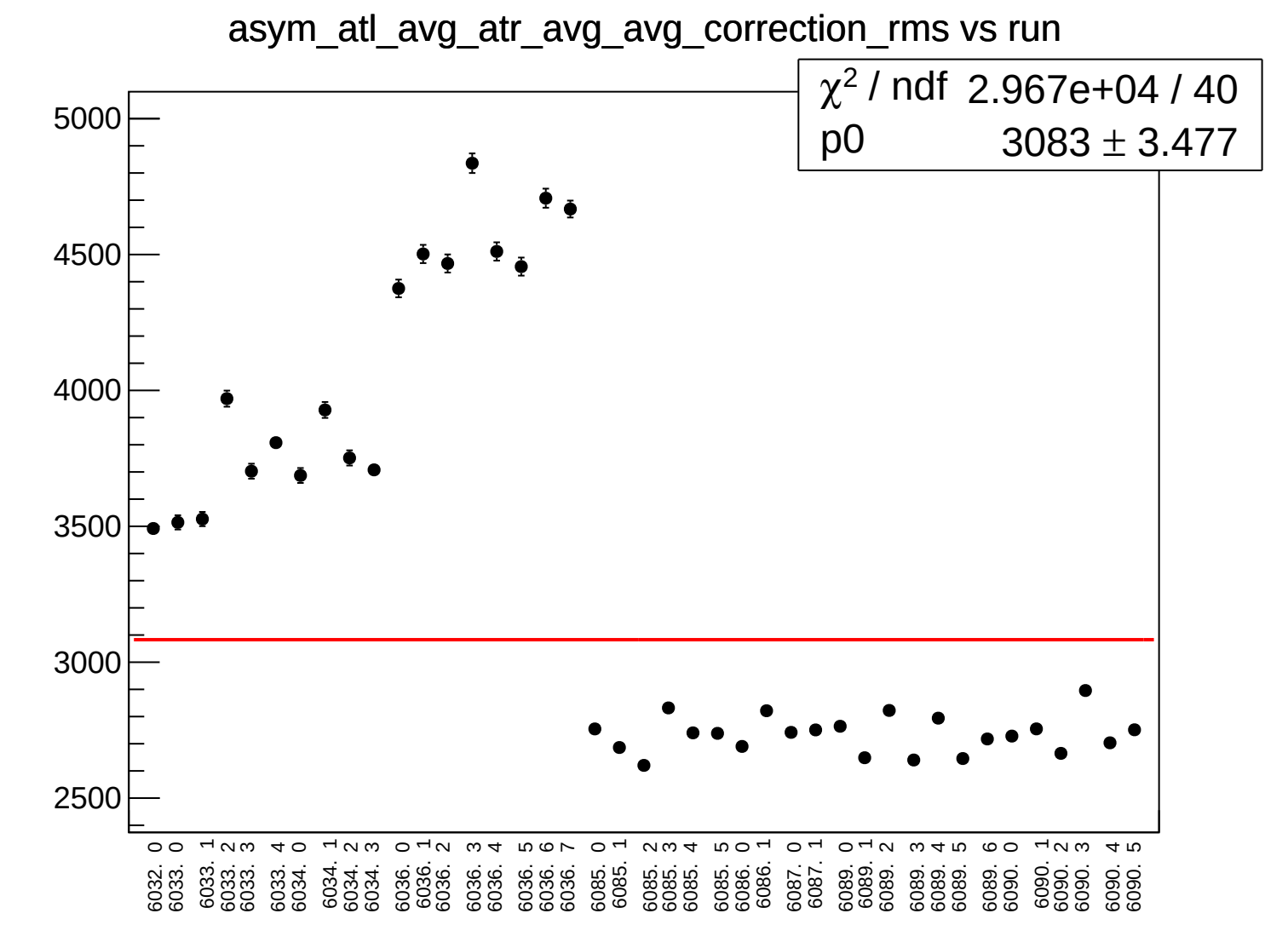

asym_atr_dd_rms vs run
χ² / ndf 5459 / 40
p0 4369 ± 4.854
5600
5400
5200
5000
4800
4600
4400
4200
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

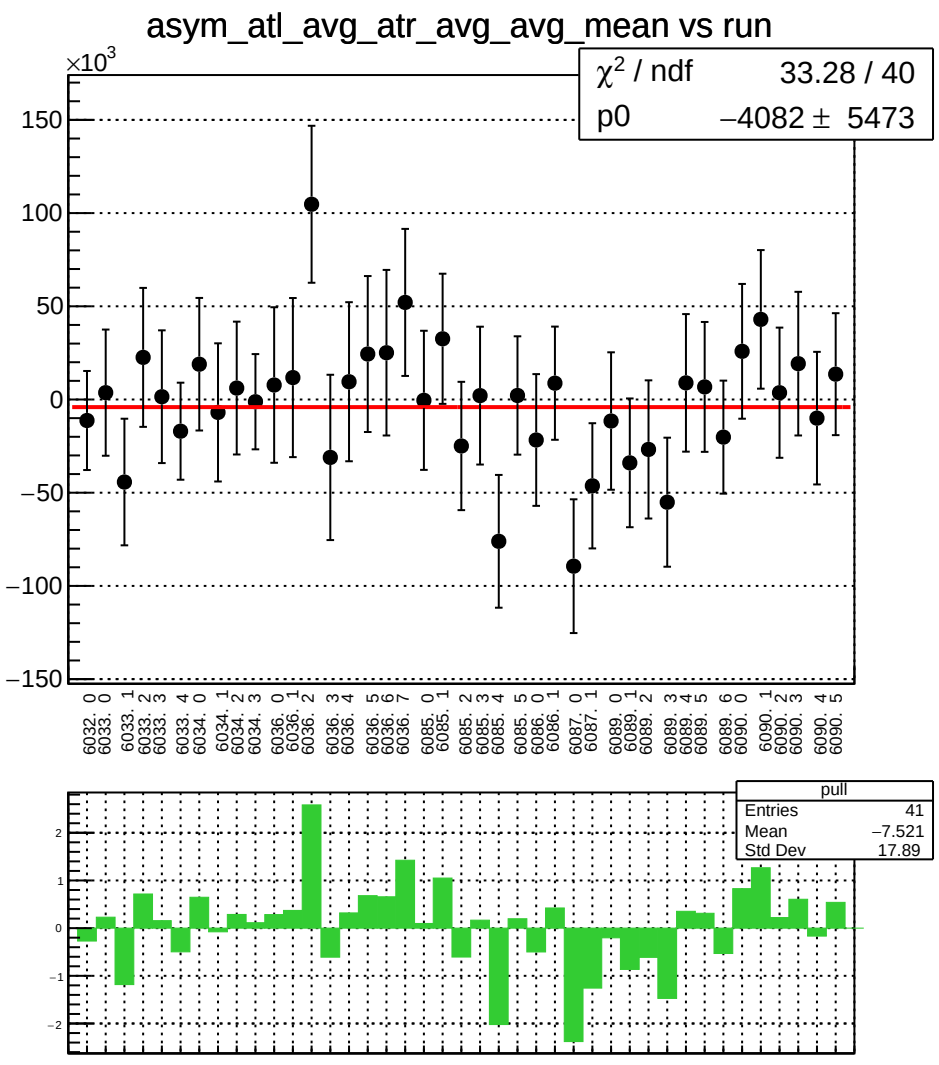

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 39.28 / 40
p0 −6718 ± 2200
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 1887
Std Dev 1864
2
1
0
−1
−2
−3

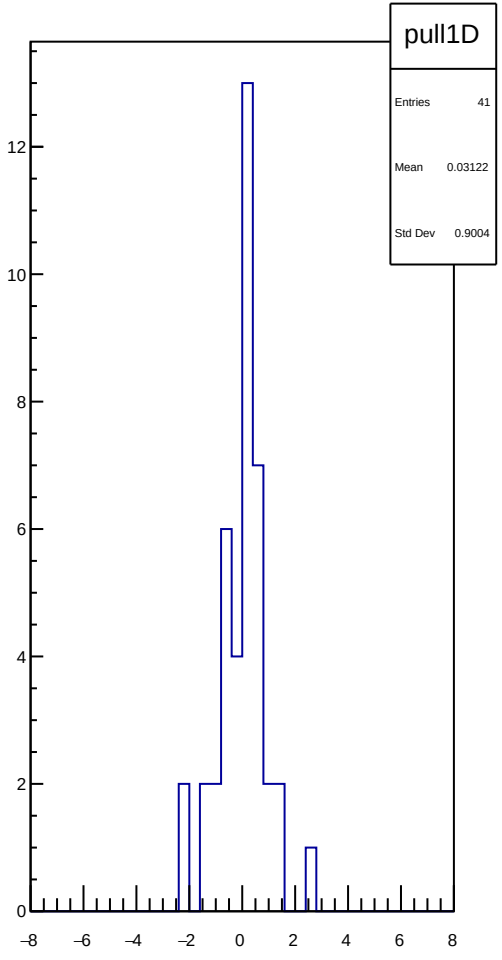

pull1D
Entries 41
Mean 0.001243
Std Dev 0.9788
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

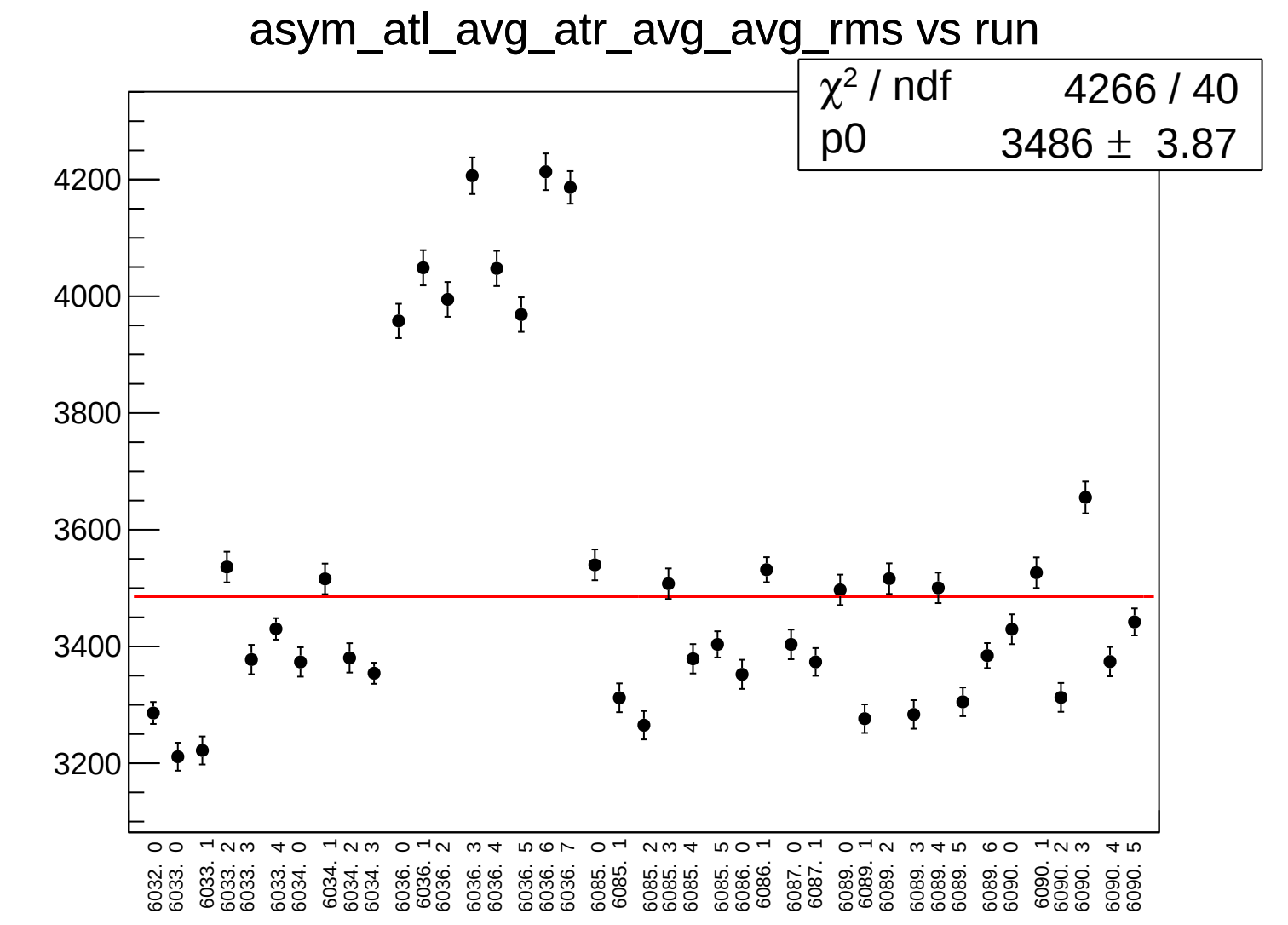

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 935.2 / 40
p0 1404 ± 1.556
1600
1550
1500
1450
1400
1350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

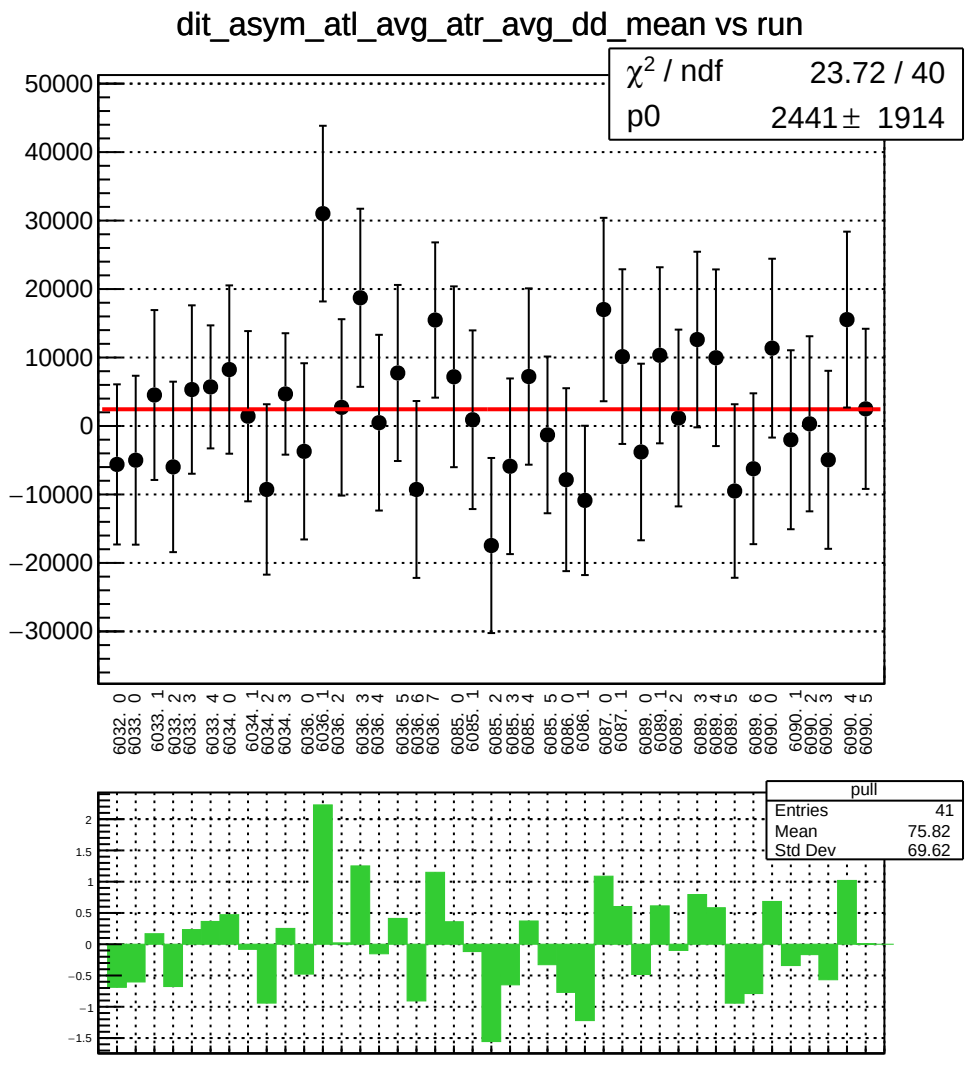

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 30.98 / 40
p0 259.6 ± 4918
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −2.852
Std Dev 14.4
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.07032
Std Dev 0.8665
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

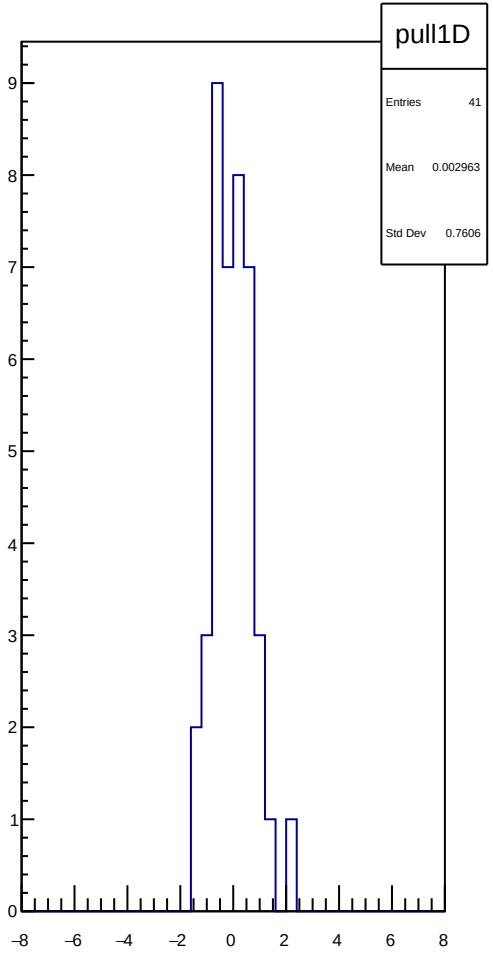

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 2.967e+04 / 40
p0 3083 ± 3.477
5000
4500
4000
3500
3000
2500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

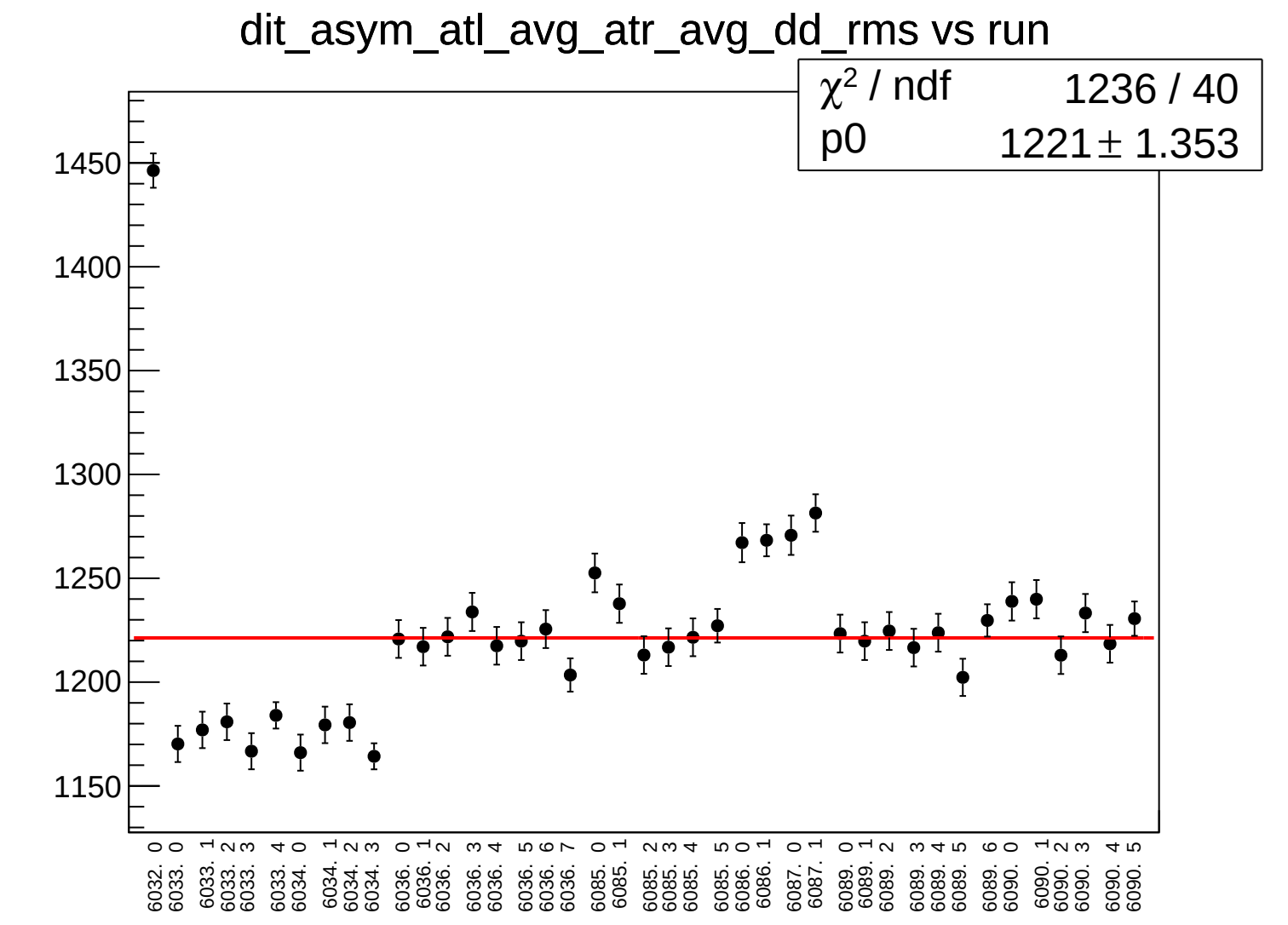

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 33.28 / 40
p0 −4082 ± 5473
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −7.521
Std Dev 17.89
2
1
0
−1
−2

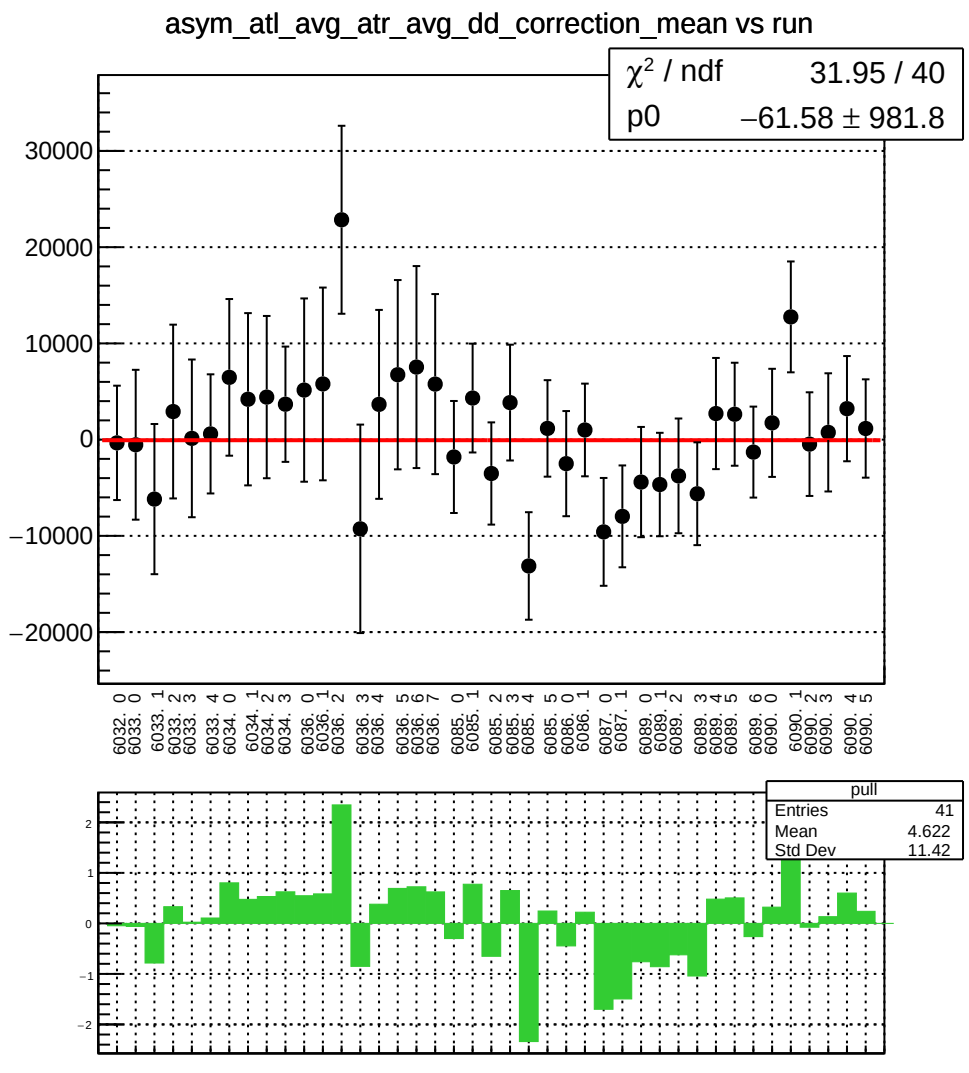

pull1D
Entries 41
Mean 0.03122
Std Dev 0.9004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

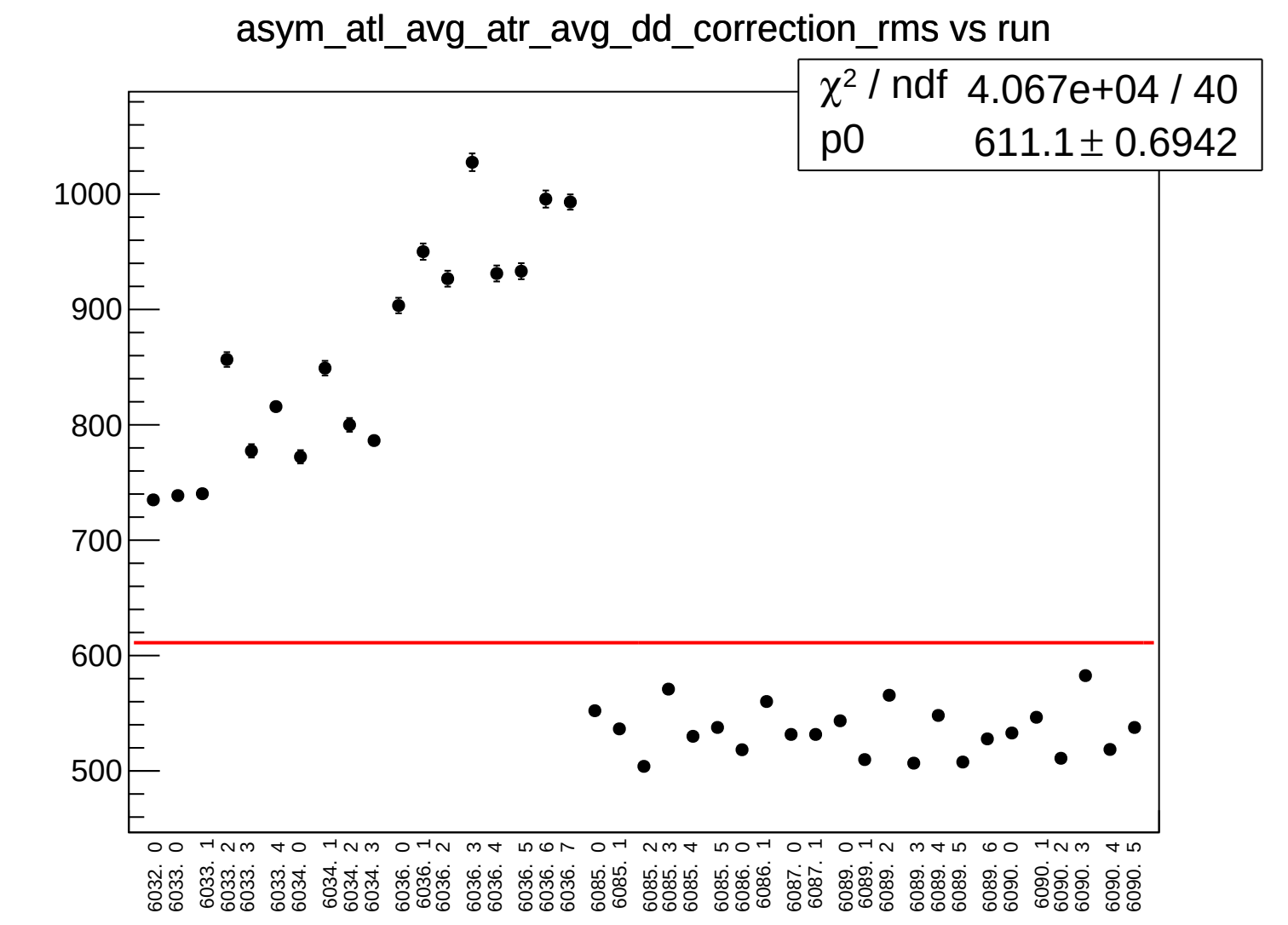

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4266 / 40
p0 3486 ± 3.87
4200
4000
3800
3600
3400
3200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

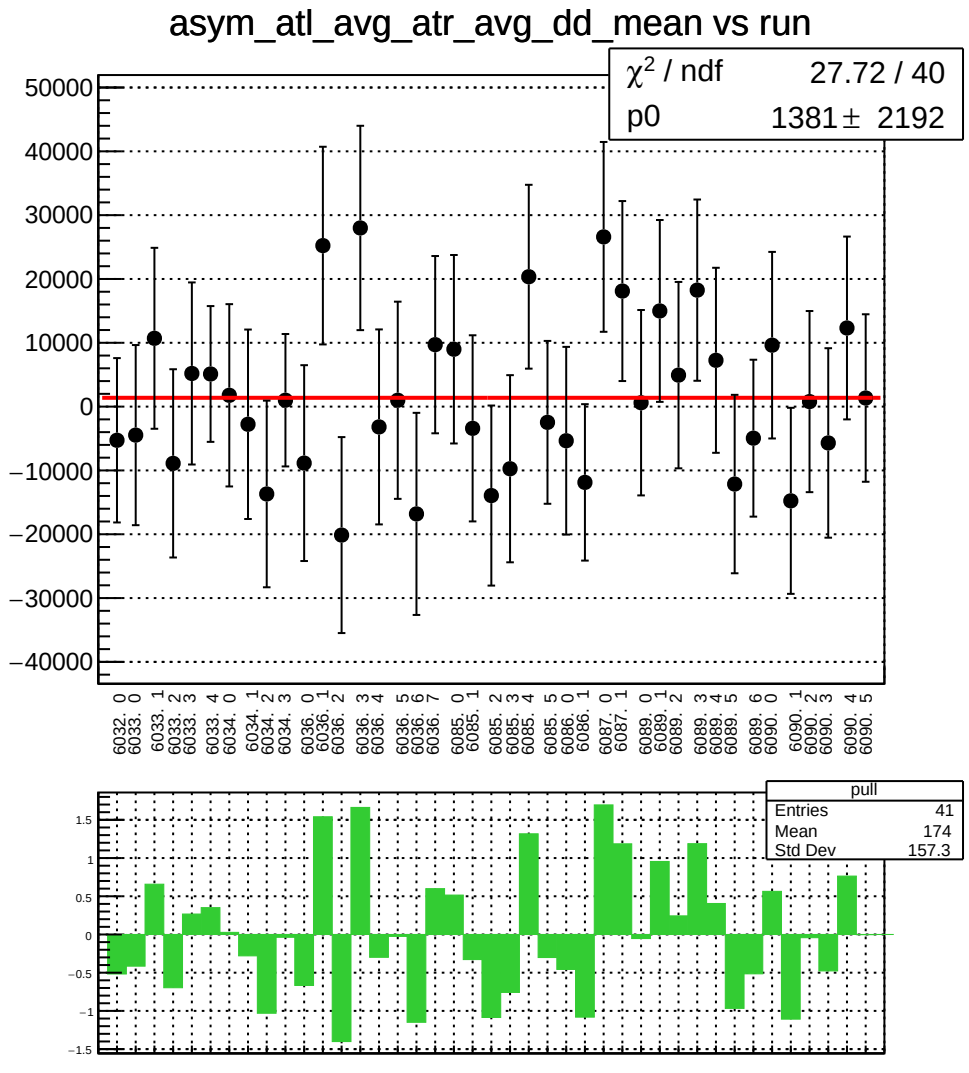

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 23.72 / 40
p0 2441 ± 1914
pull
Entries 41
Mean 75.82
Std Dev 69.62

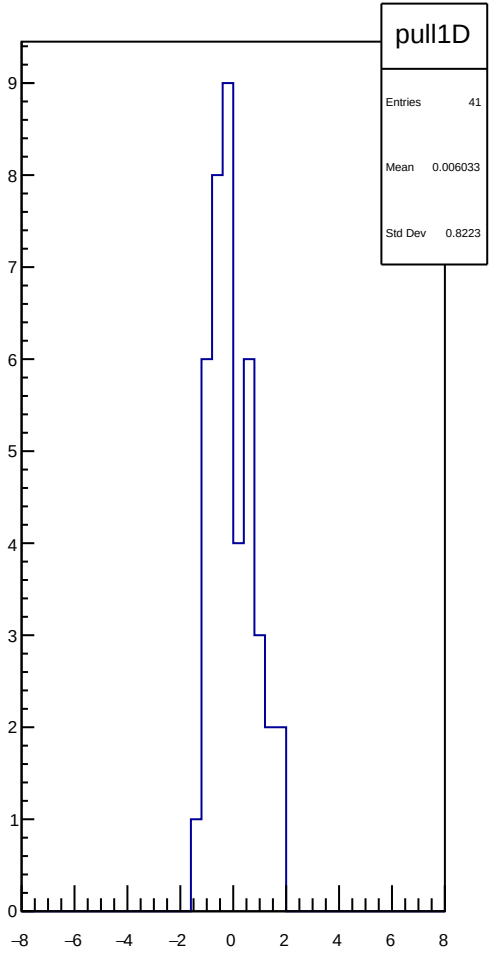

pull1D
Entries 41
Mean 0.002963
Std Dev 0.7606

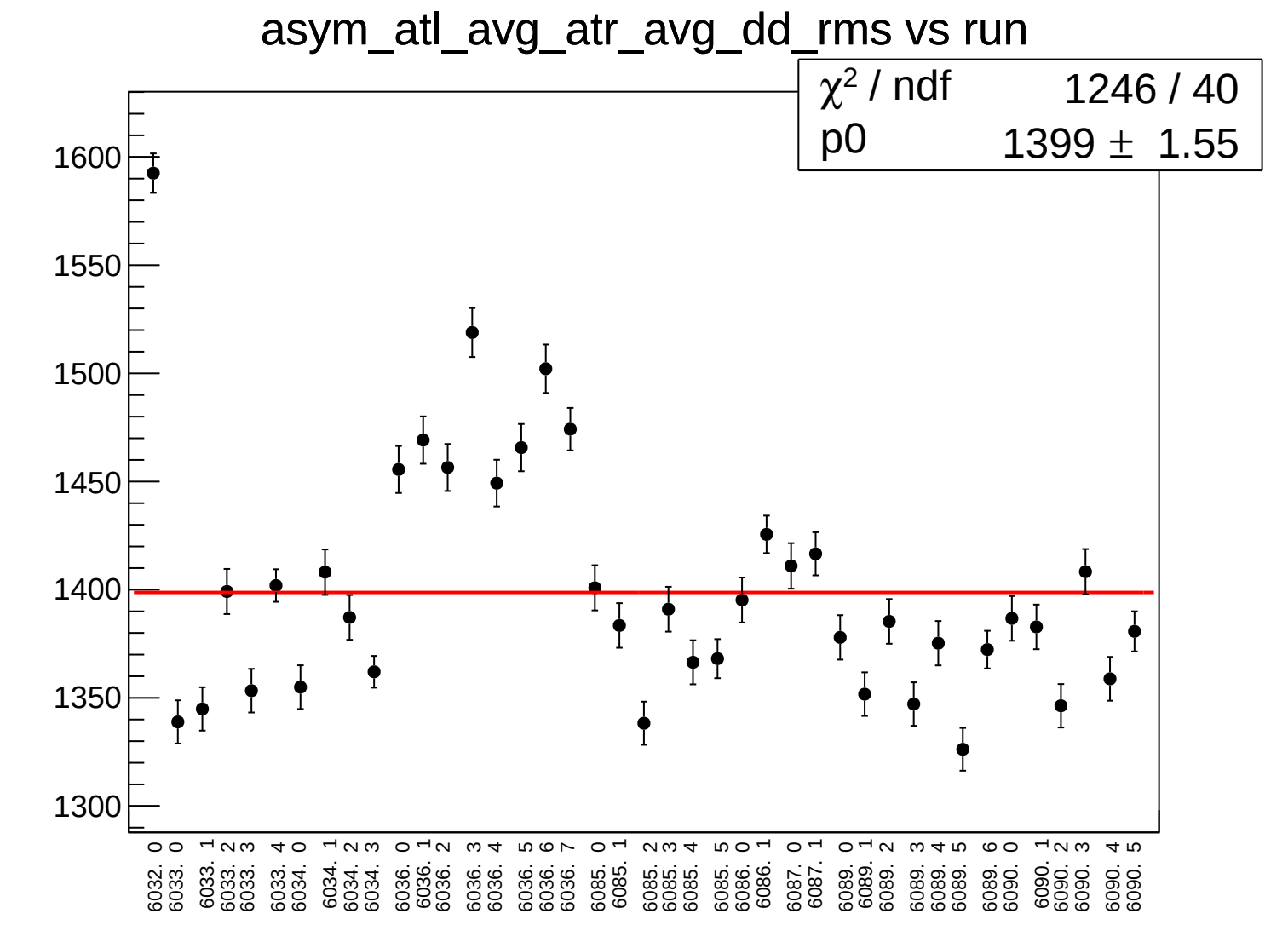

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1236 / 40
p0 1221 ± 1.353
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

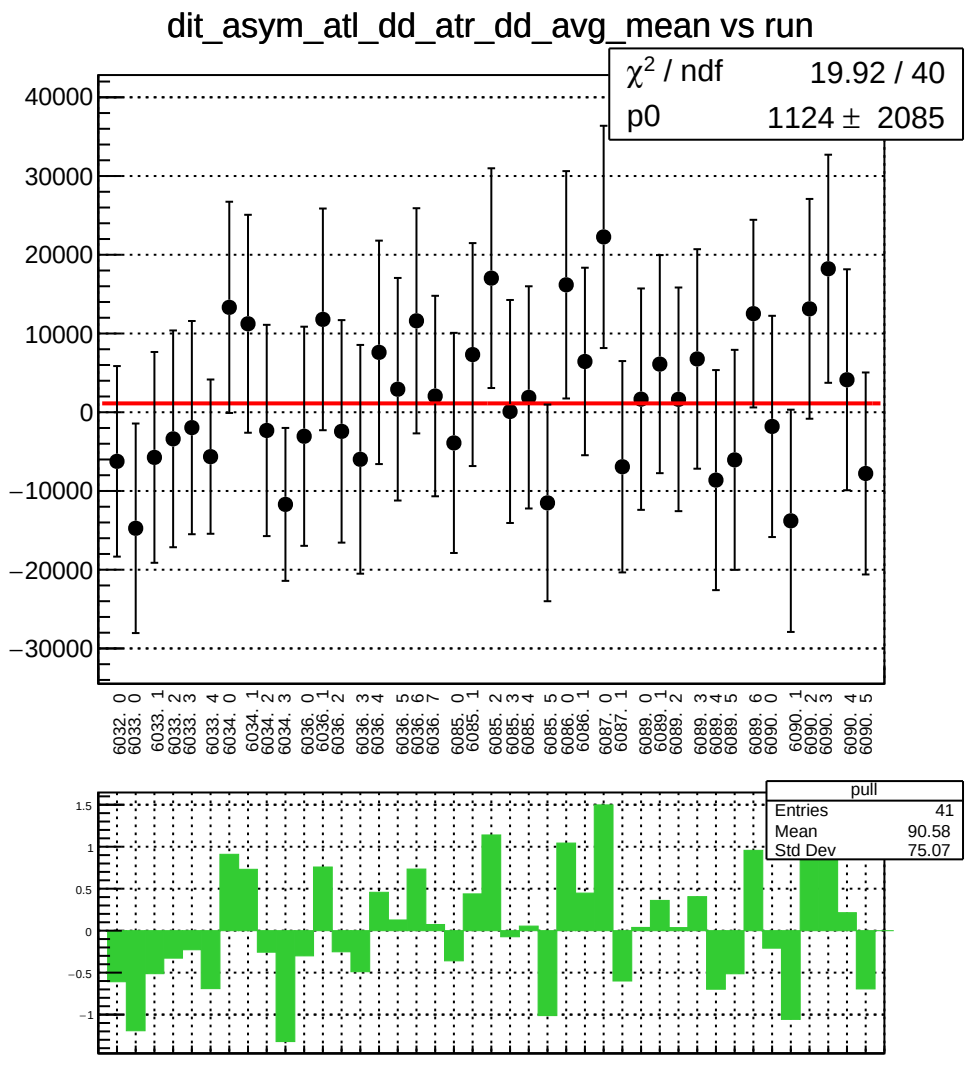

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 31.95 / 40
p0 −61.58 ± 981.8
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 4.622
Std Dev 11.42
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.07067
Std Dev 0.8799
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

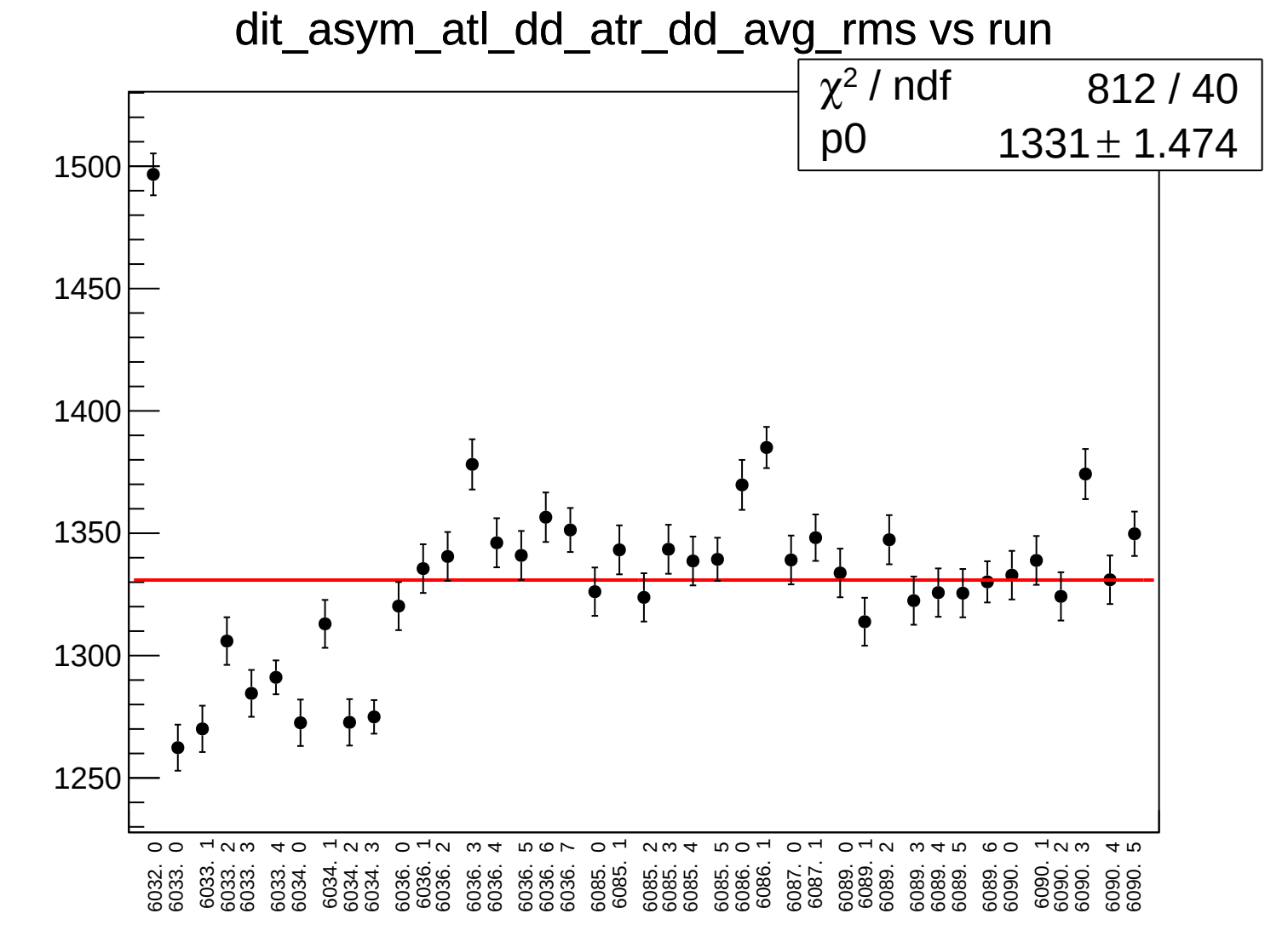

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 4.067e+04 / 40
p0 611.1 ± 0.6942
1000
900
800
700
600
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

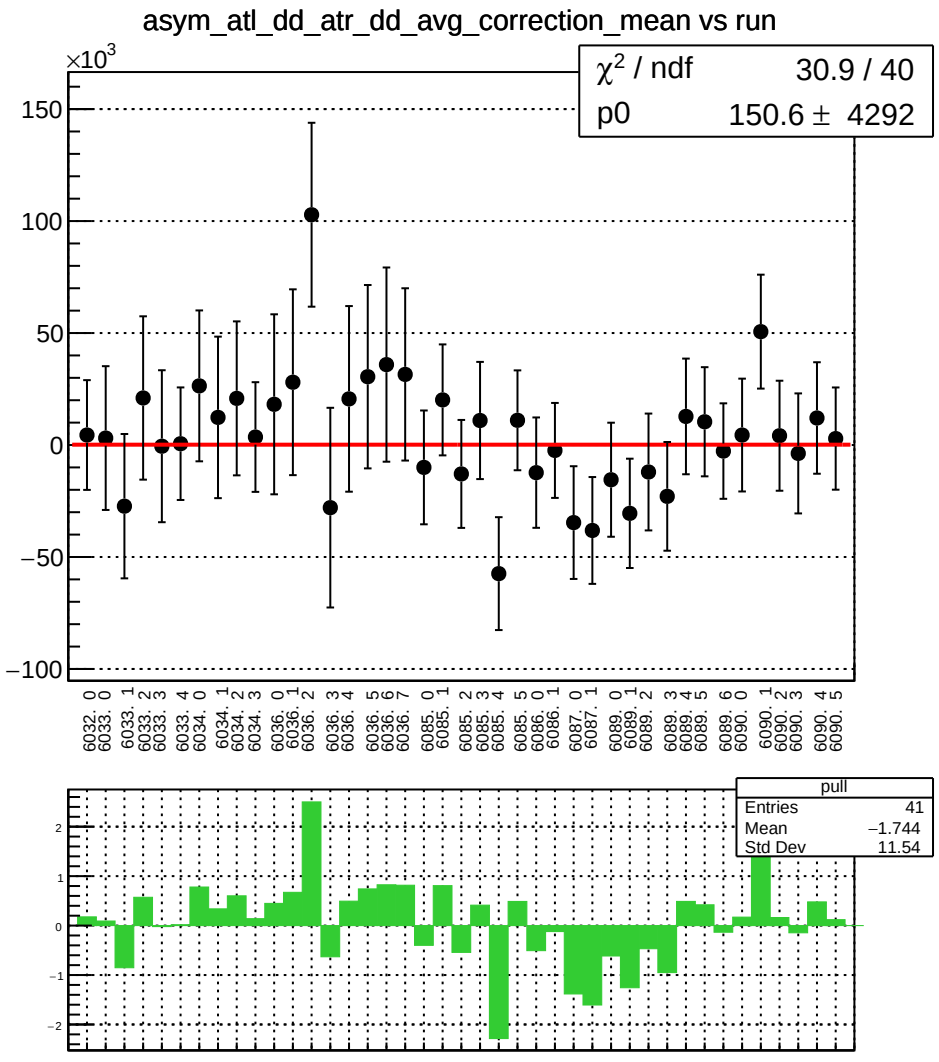

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 27.72 / 40
p0 1381 ± 2192
pull
Entries 41
Mean 174
Std Dev 157.3

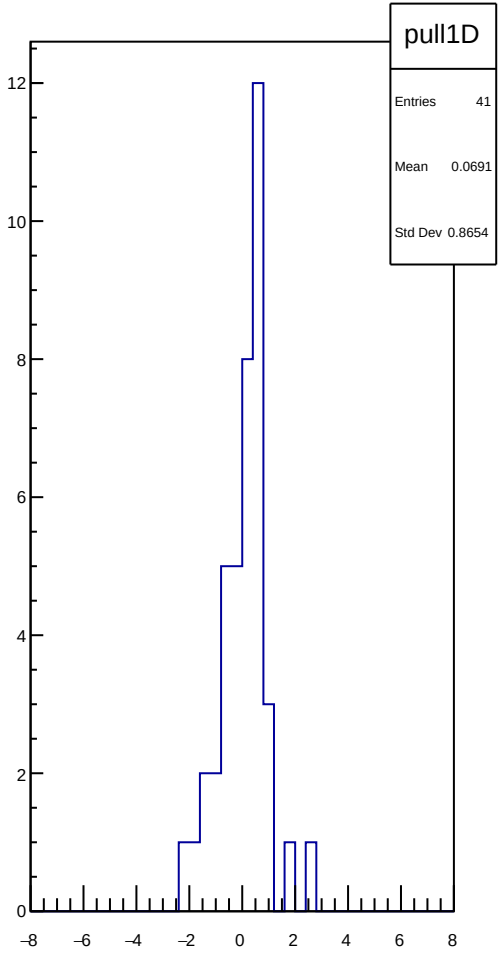

pull1D
Entries 41
Mean 0.006033
Std Dev 0.8223

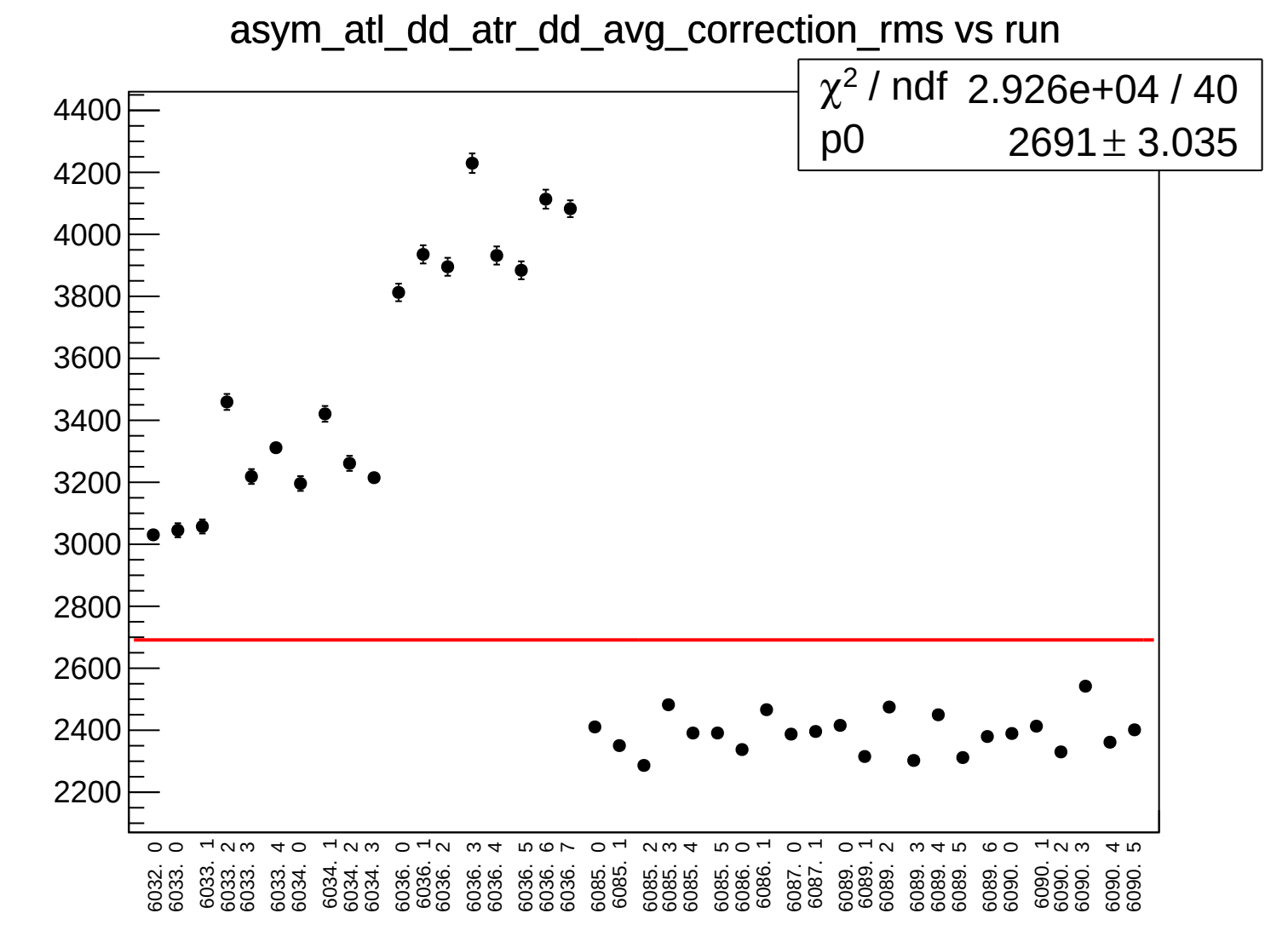

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1246 / 40
p0 1399 ± 1.55
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

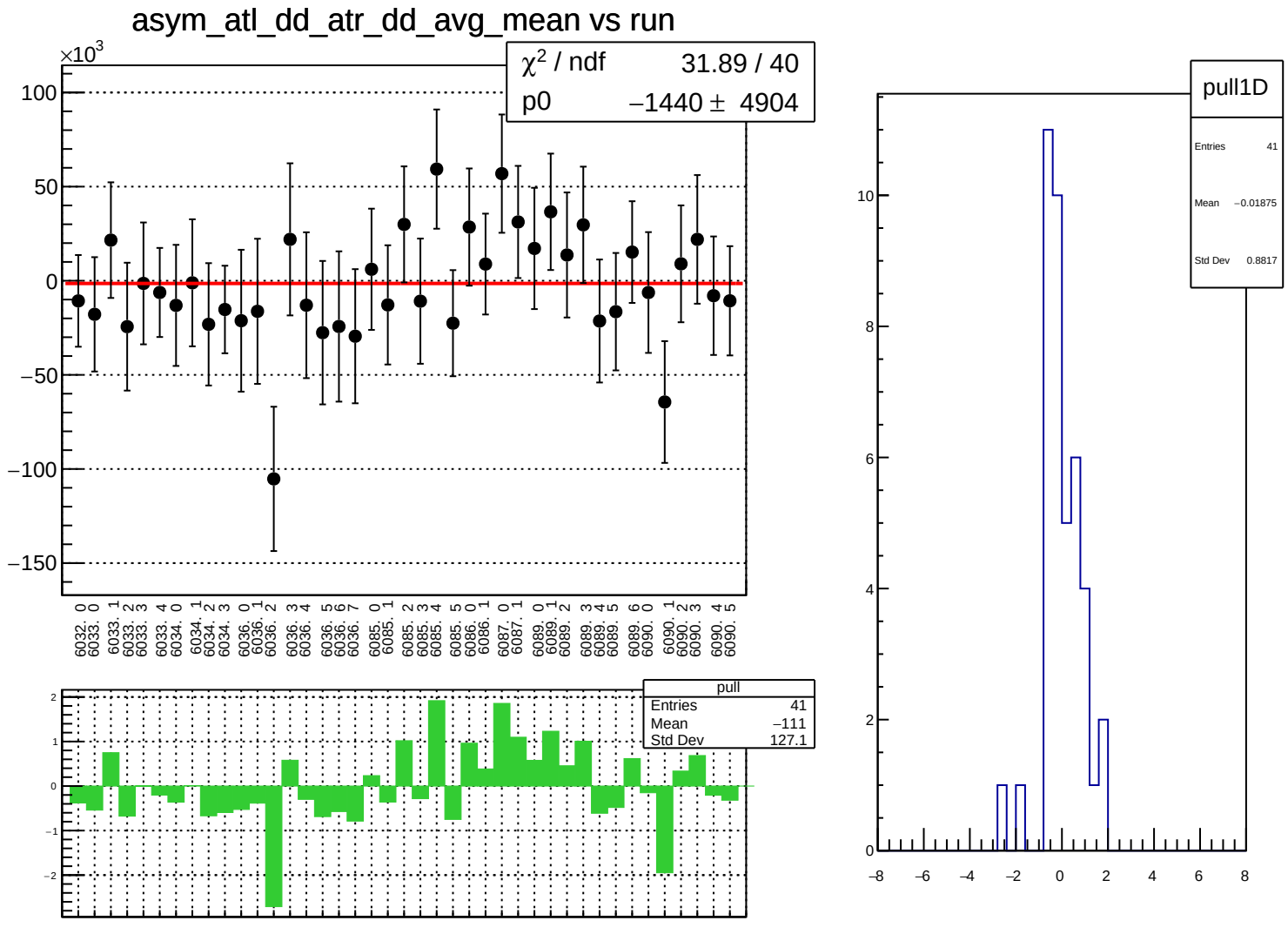

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 19.92 / 40
p0 1124 ± 2085
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 90.58
Std Dev 75.07
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0262
Std Dev 0.6965
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

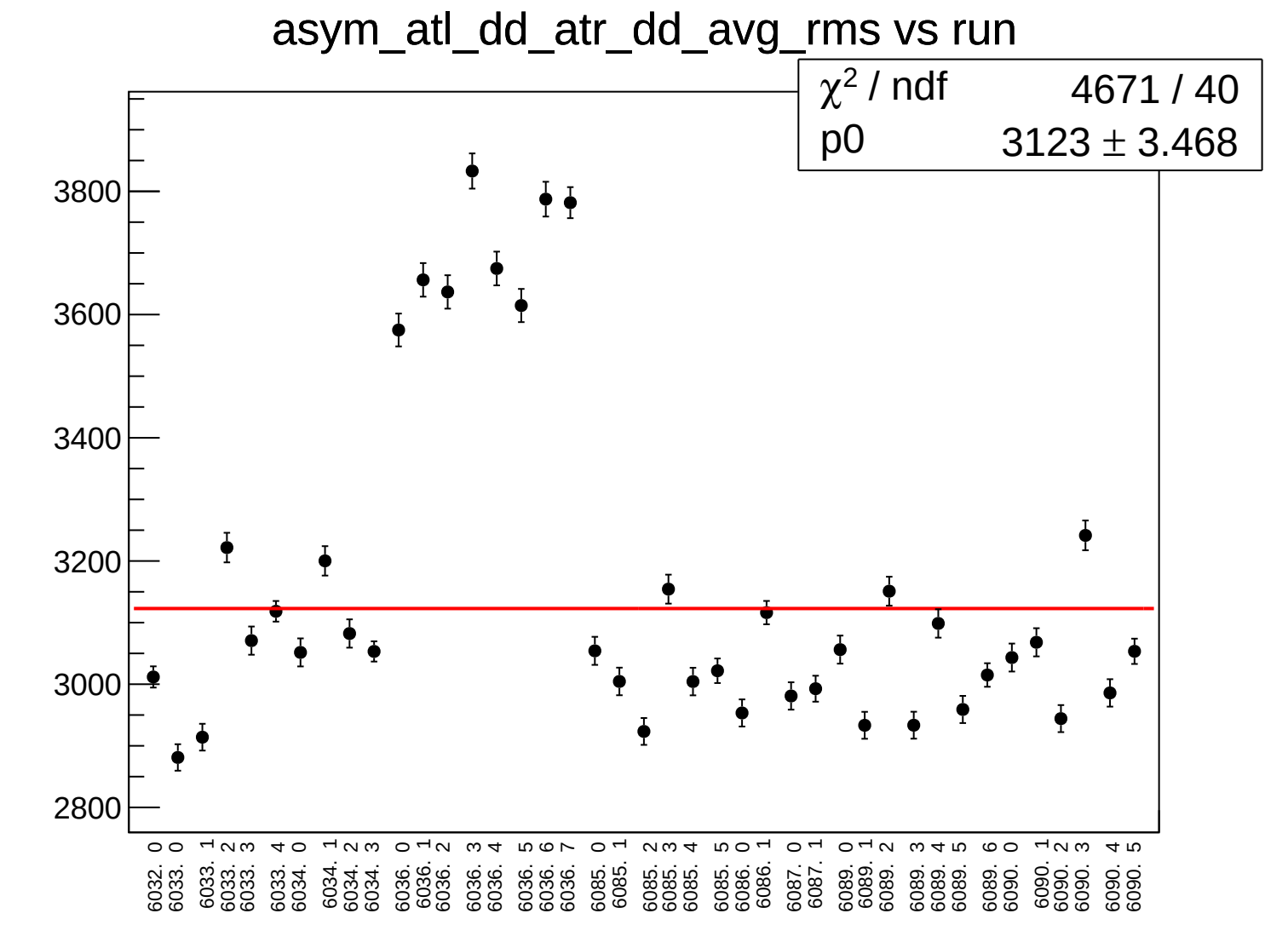

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 812 / 40
p0 1331 ± 1.474
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

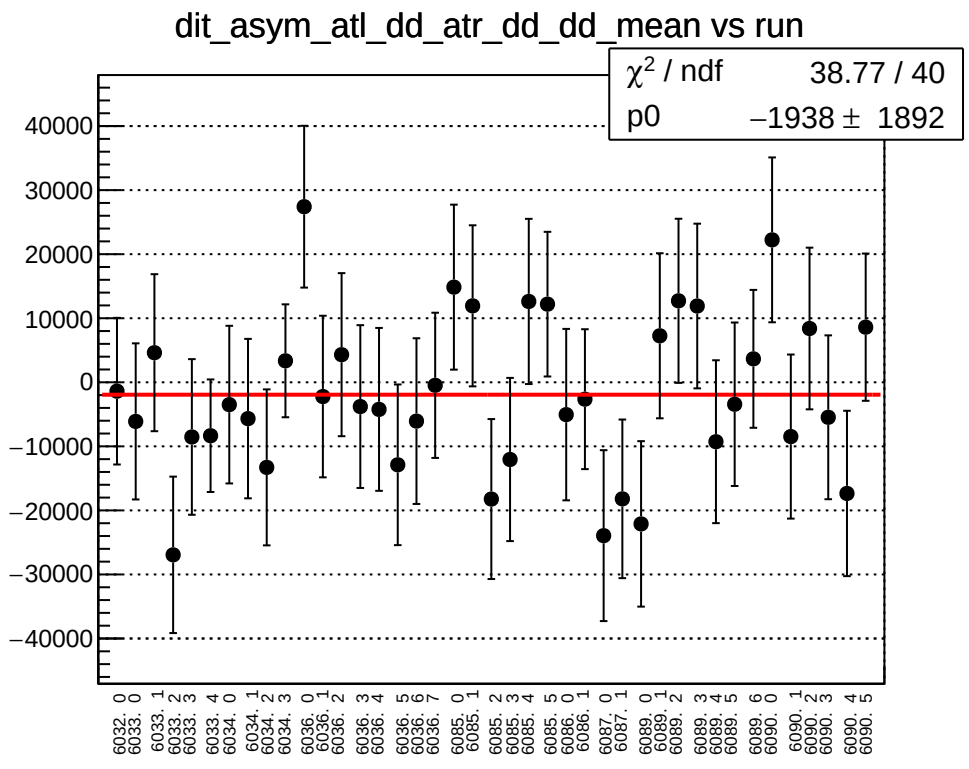

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 30.9 / 40
p0 150.6 ± 4292
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −1.744
Std Dev 11.54
2
1
0
−1
−2

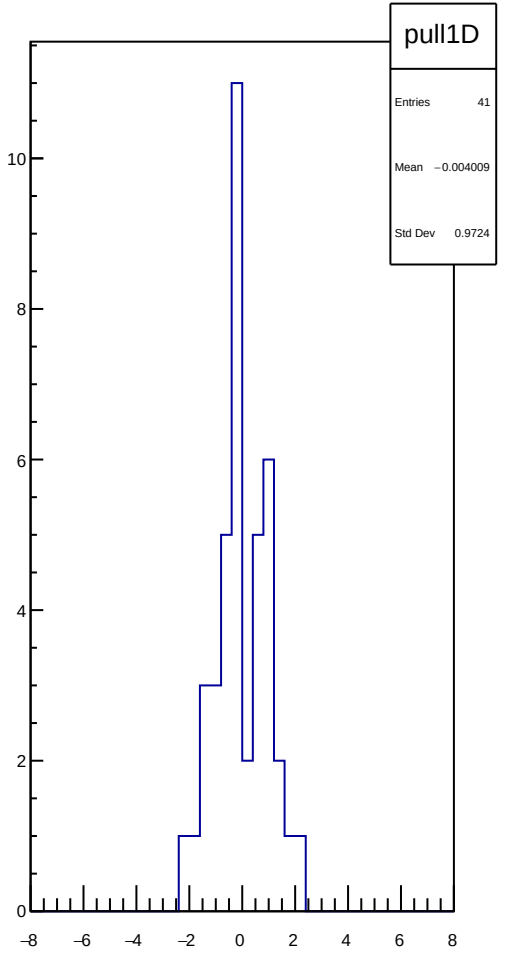

pull1D
Entries 41
Mean 0.0691
Std Dev 0.8654
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

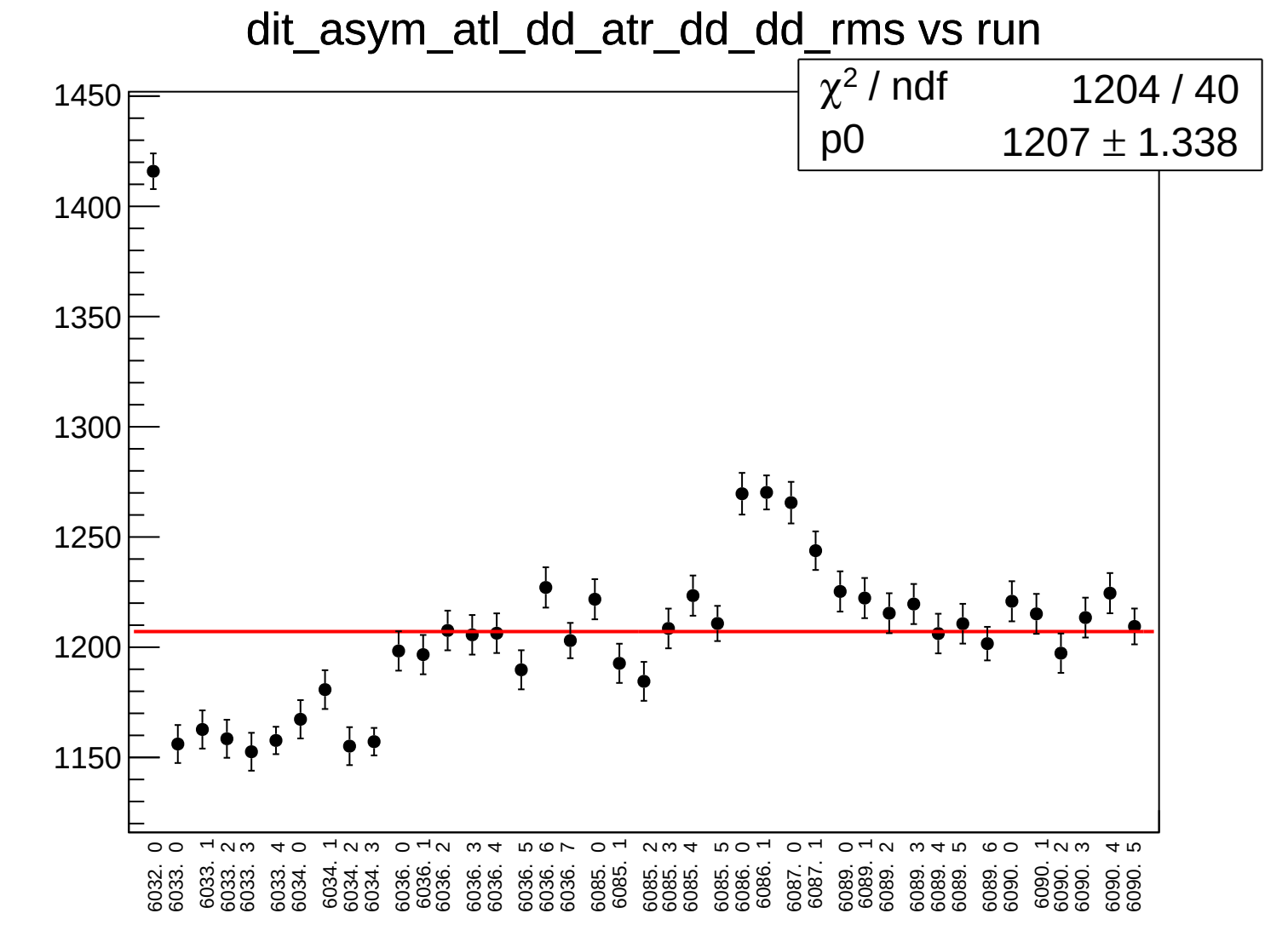

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 2.926e+04 / 40
p0 2691 ± 3.035
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

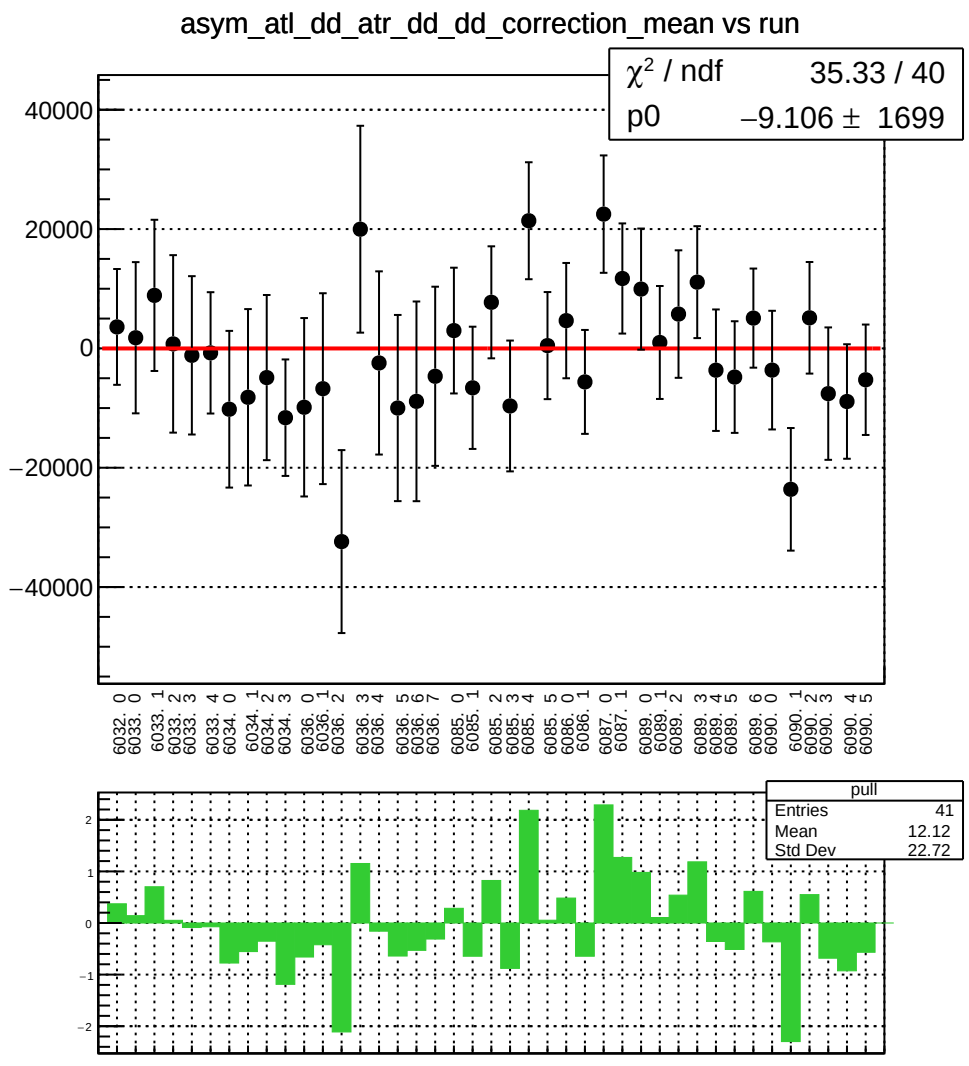

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 31.89 / 40
p0 −1440 ± 4904
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −111
Std Dev 127.1
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01875
Std Dev 0.8817
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

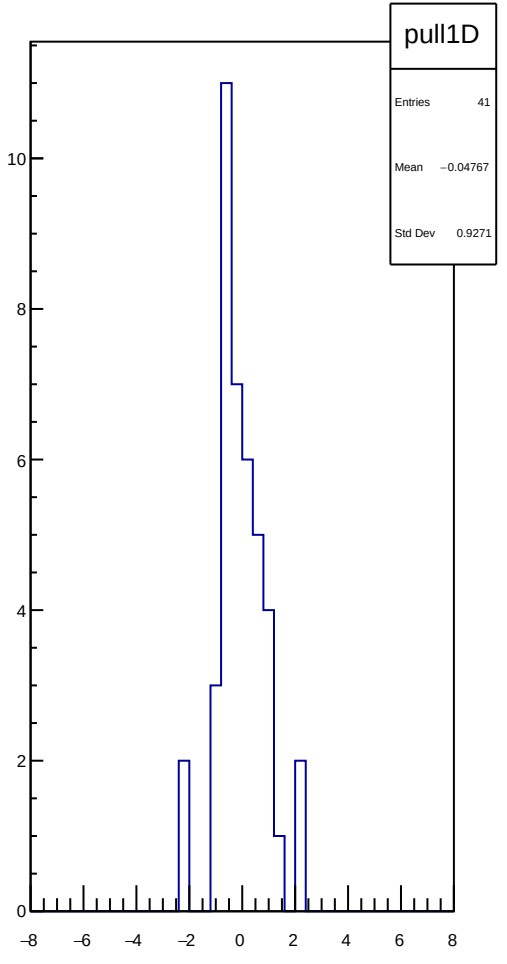

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4671 / 40
p0 3123 ± 3.468
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

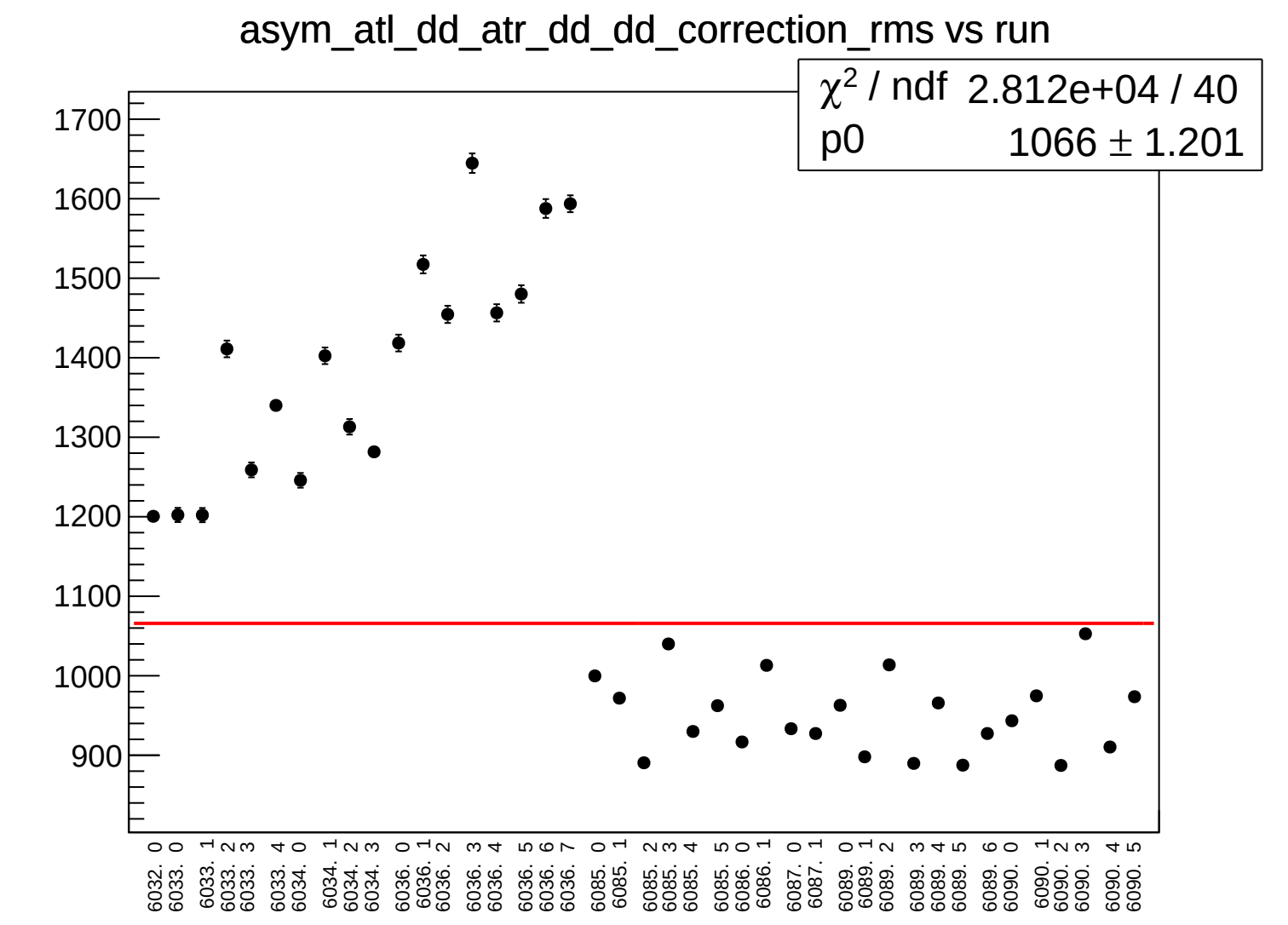

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 38.77 / 40
p0 −1938 ± 1892
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −361.6
Std Dev 379.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

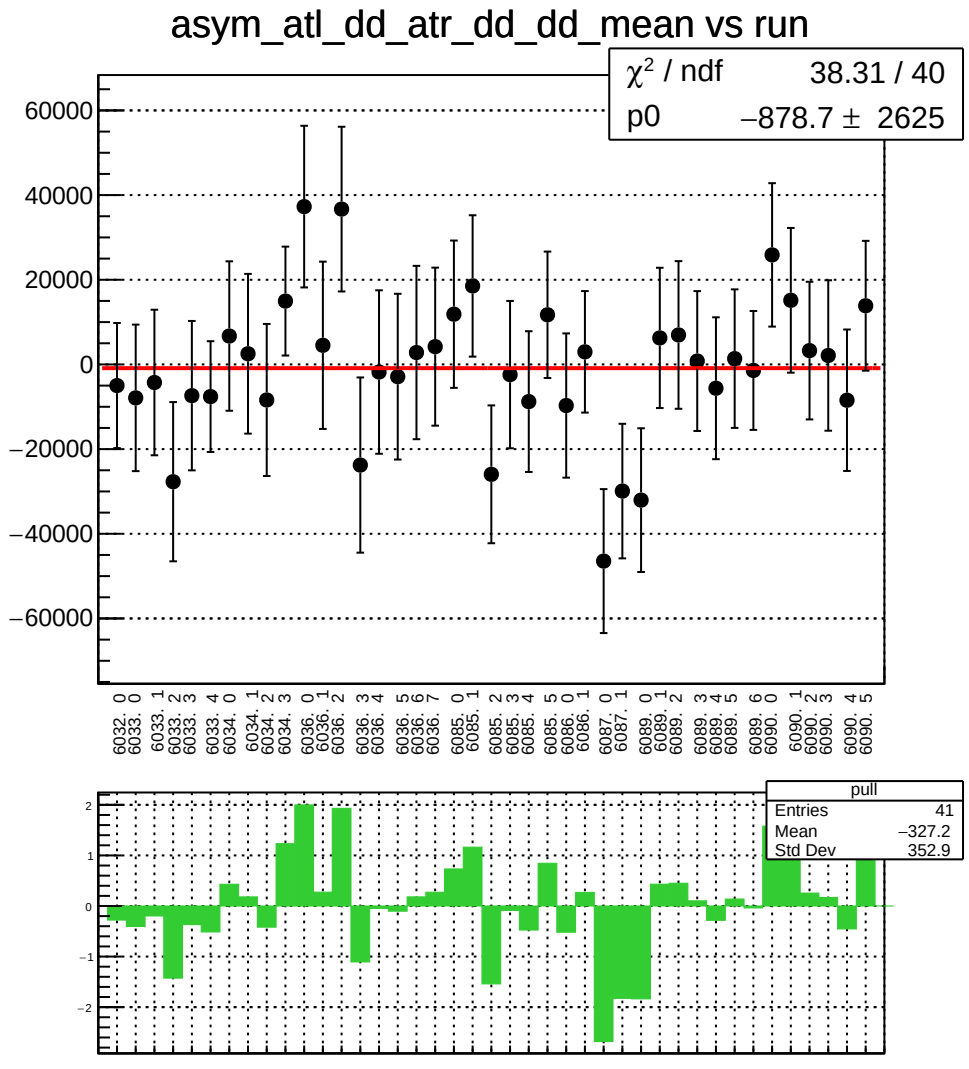

pull1D
Entries 41
Mean −0.004009
Std Dev 0.9724
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

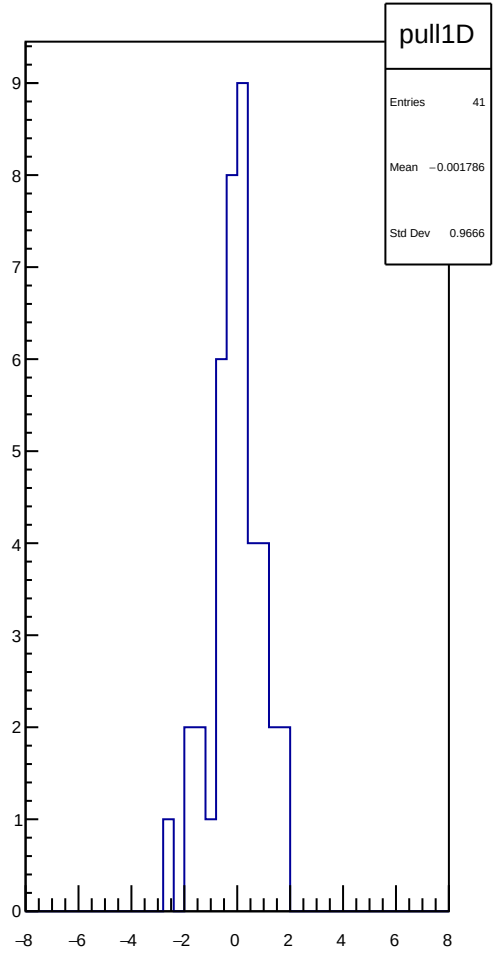

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1204 / 40
p0 1207 ± 1.338
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

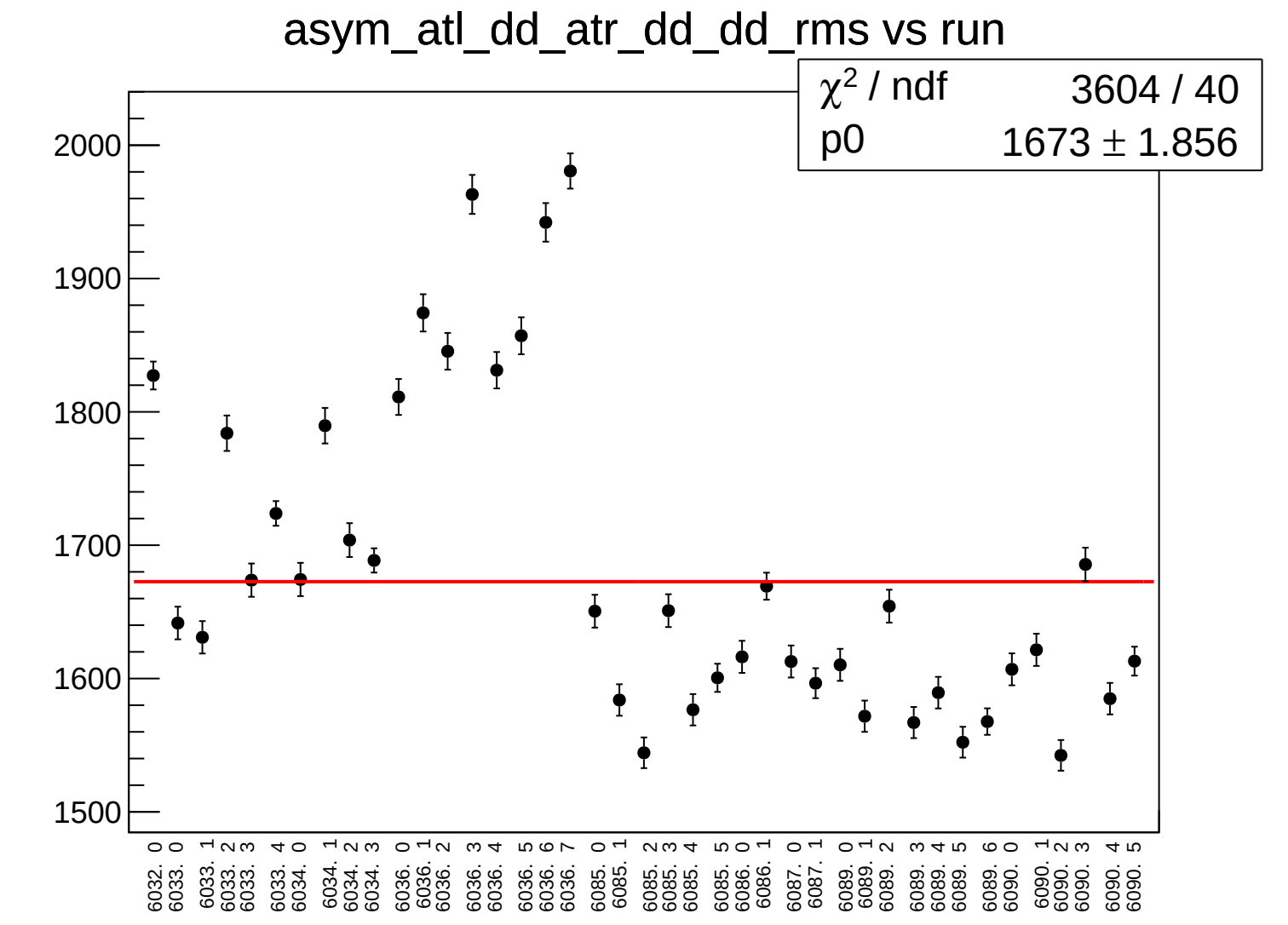

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 35.33 / 40
p0 −9.106 ± 1699
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 12.12
Std Dev 22.72
2
1
0
−1
−2

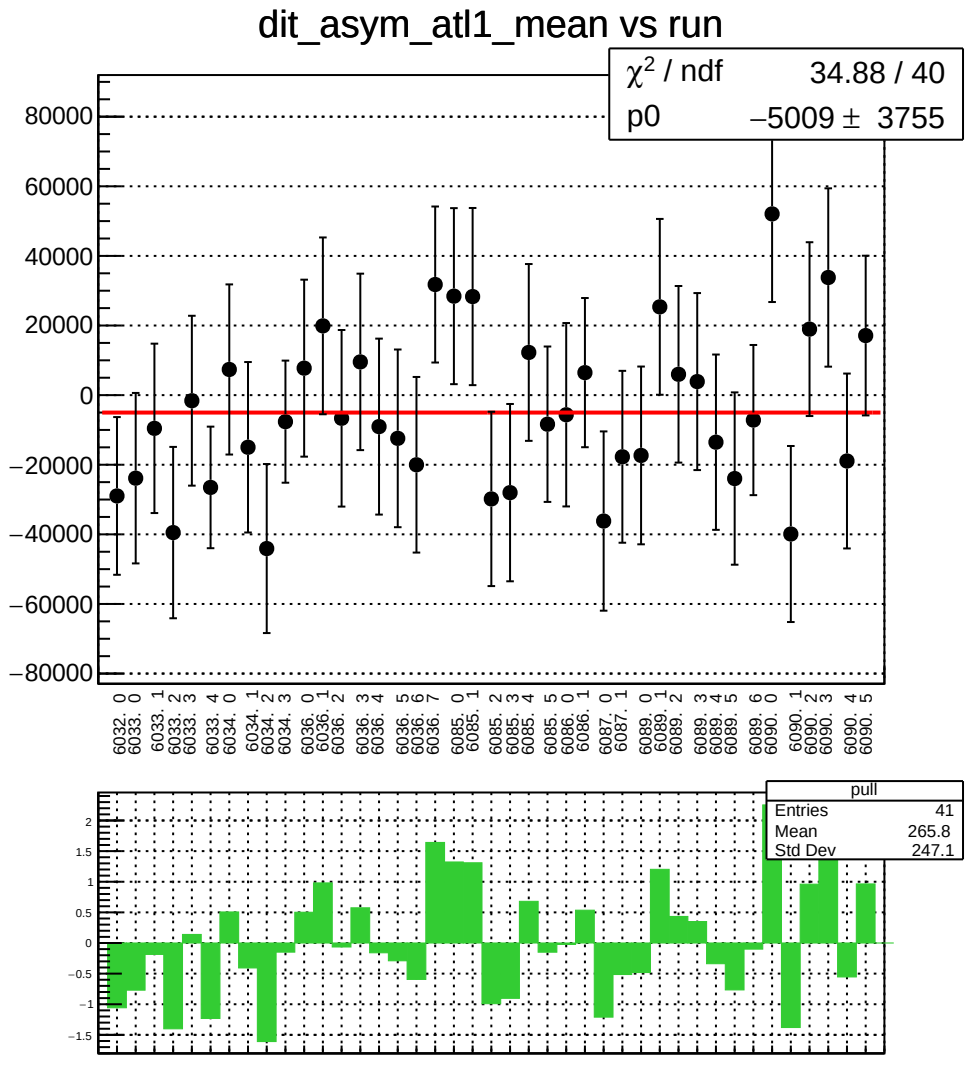

pull1D
Entries 41
Mean −0.04767
Std Dev 0.9271
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

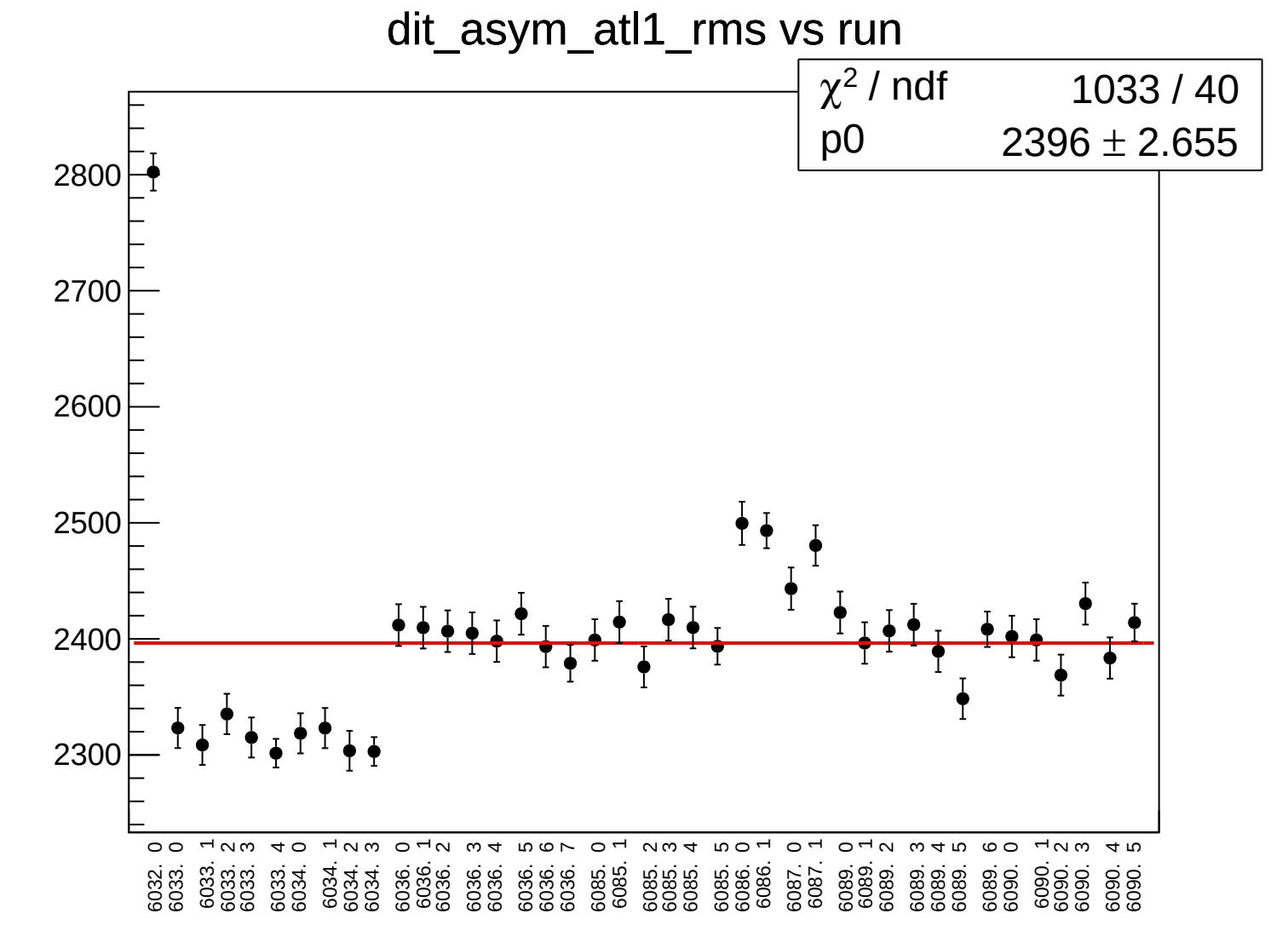

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 2.812e+04 / 40
p0 1066 ± 1.201
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

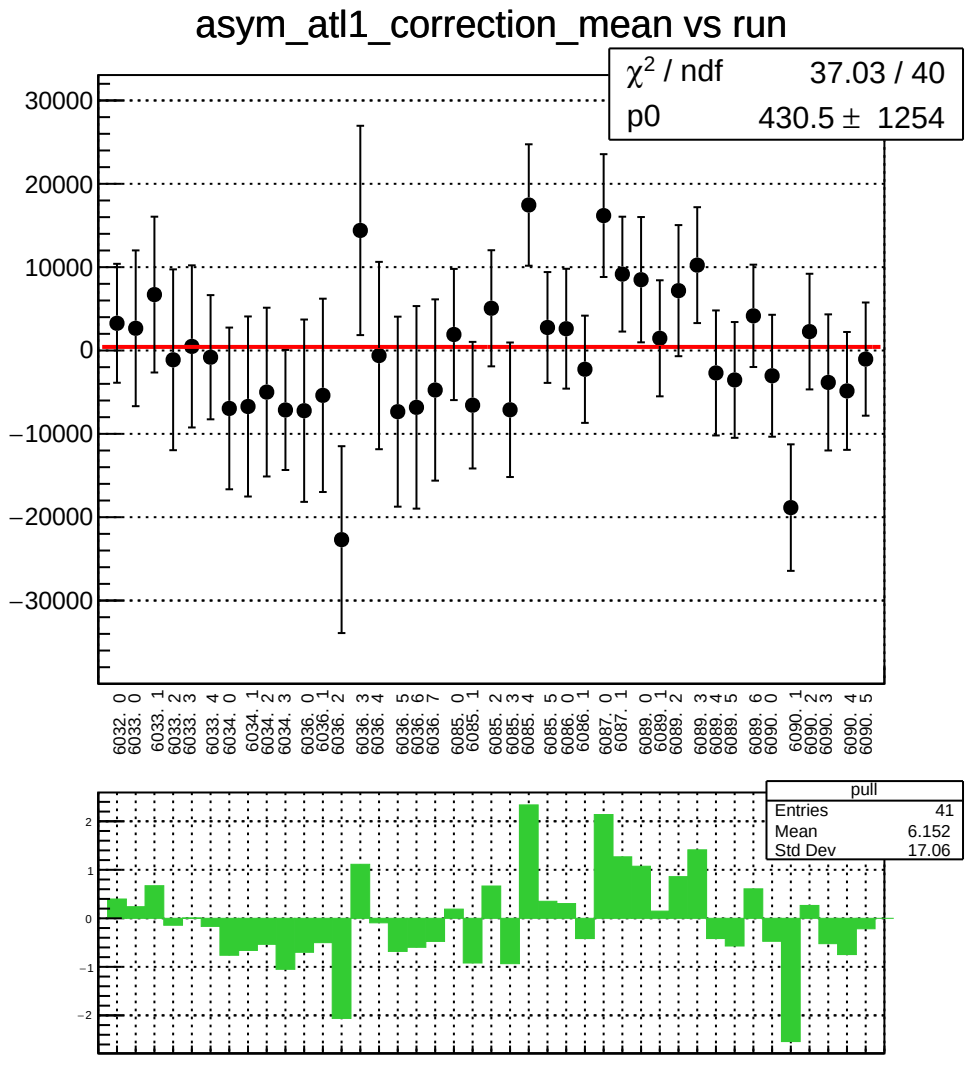

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 38.31 / 40
p0 −878.7 ± 2625
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −327.2
Std Dev 352.9
2
1
0
−1
−2

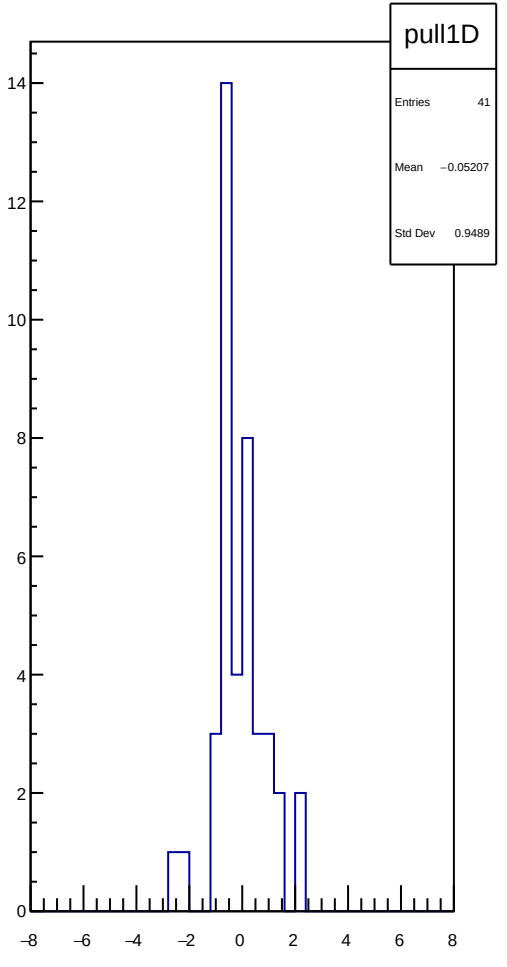

pull1D
Entries 41
Mean −0.001786
Std Dev 0.9666
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

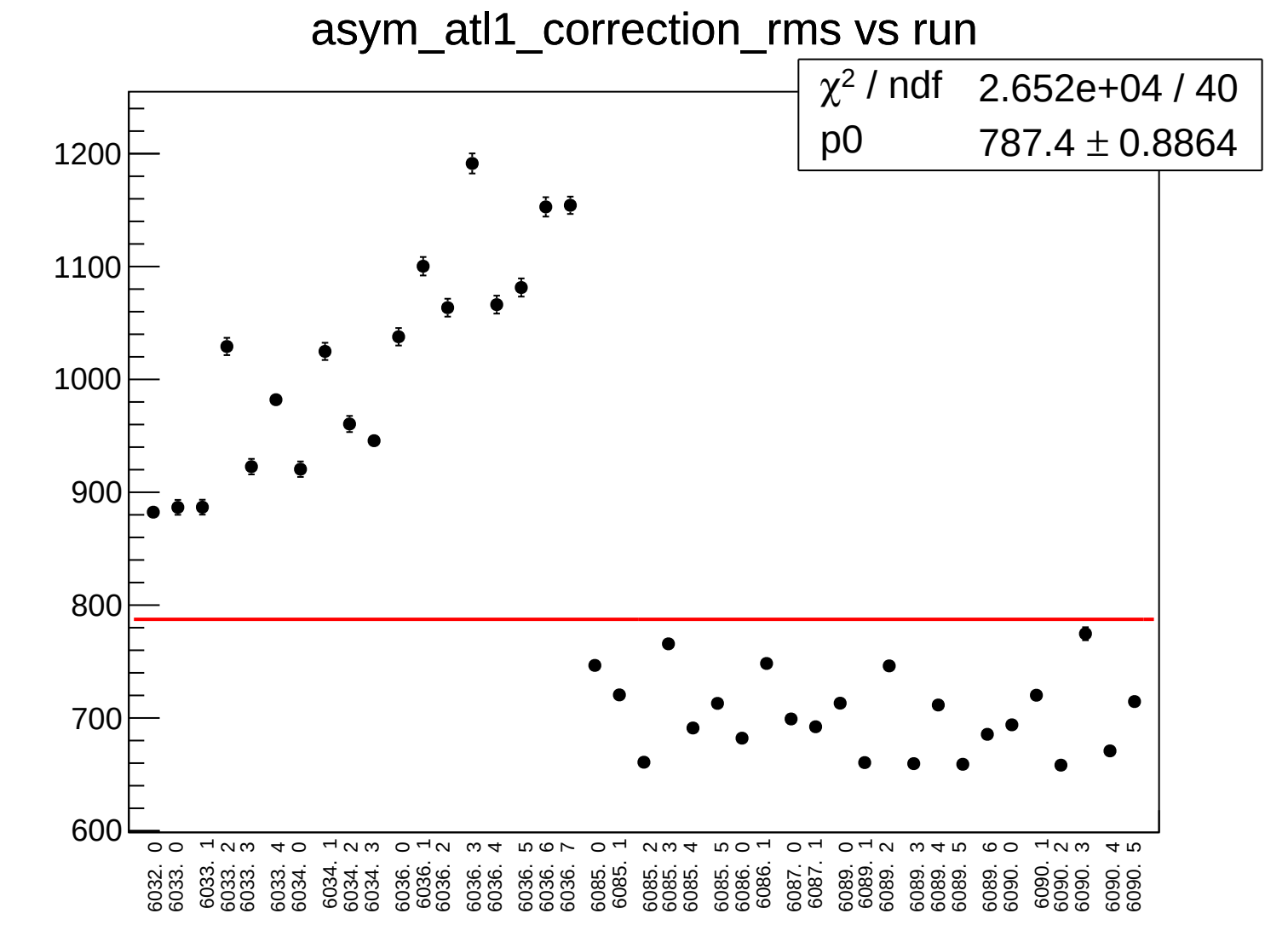

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3604 / 40
p0 1673 ± 1.856
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

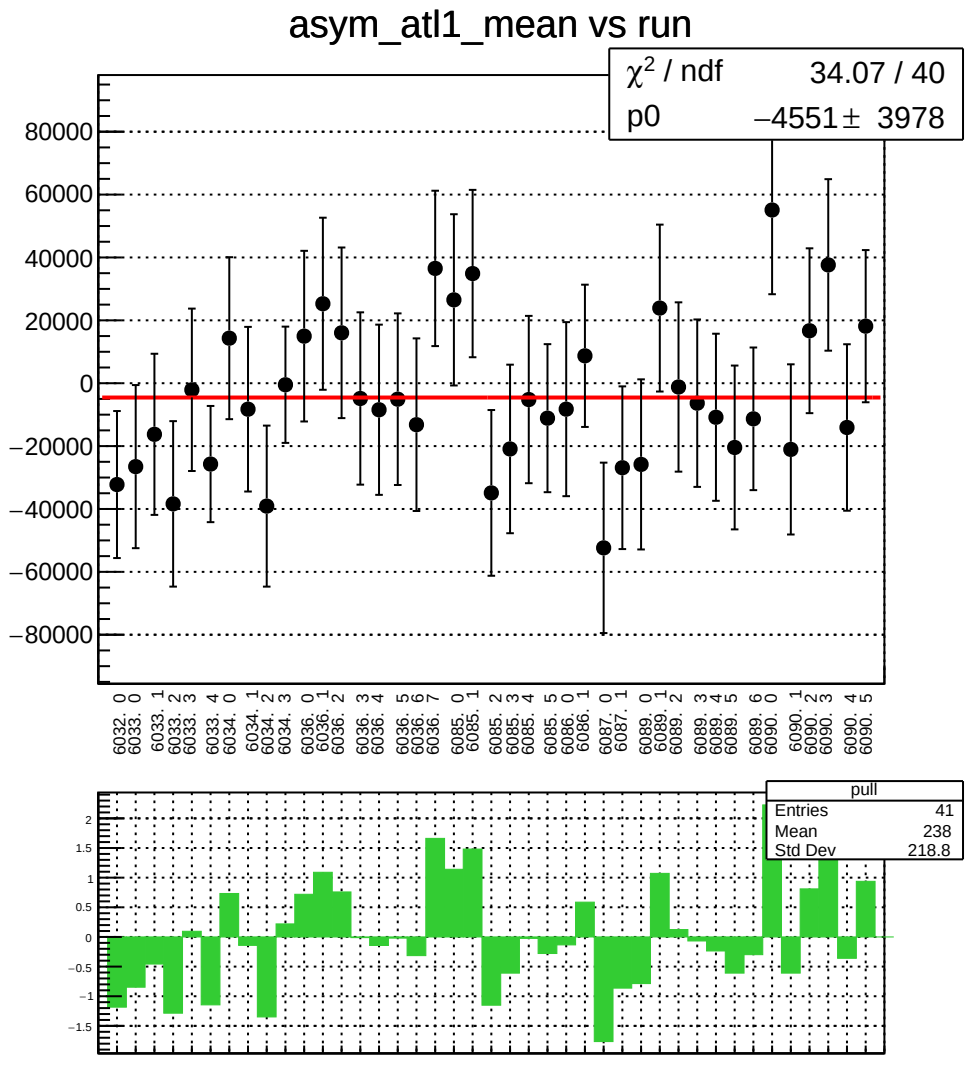

dit_asym_atl1_mean vs run
χ² / ndf 34.88 / 40
p0 −5009 ± 3755
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 265.8
Std Dev 247.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01317
Std Dev 0.9223
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

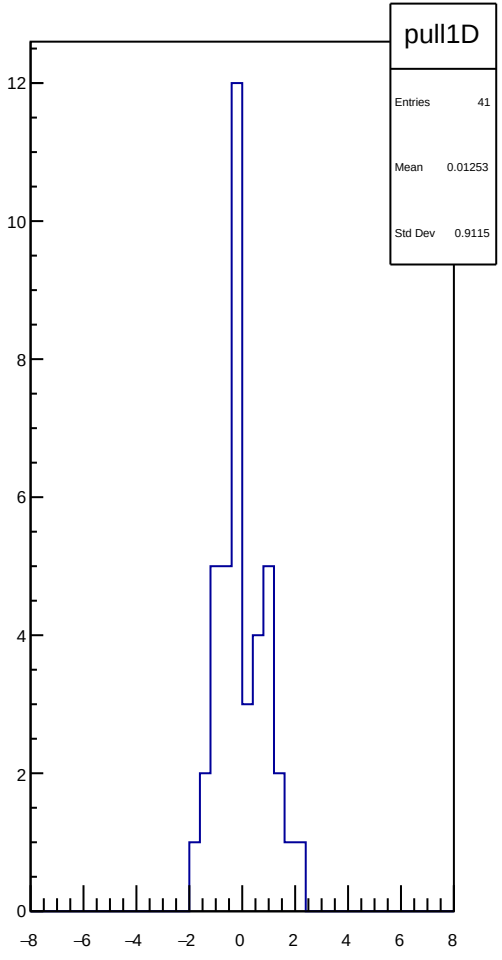

dit_asym_atl1_rms vs run
χ^2 / ndf 1033 / 40
p0 2396 ± 2.655
2800
2700
2600
2500
2400
2300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

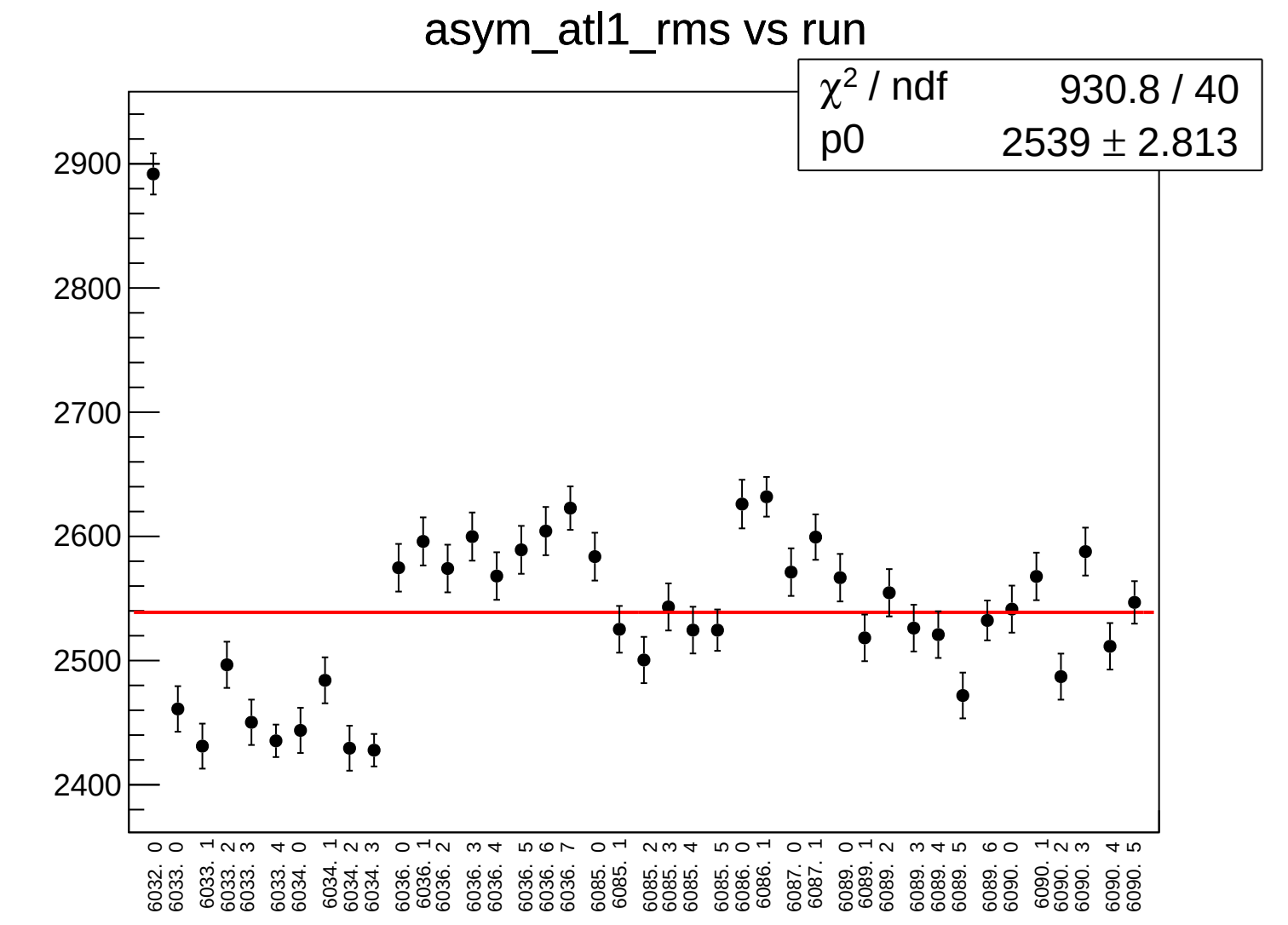

asym_atl1_correction_mean vs run
χ² / ndf 37.03 / 40
p0 430.5 ± 1254
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 6.152
Std Dev 17.06
2
1
0
−1
−2

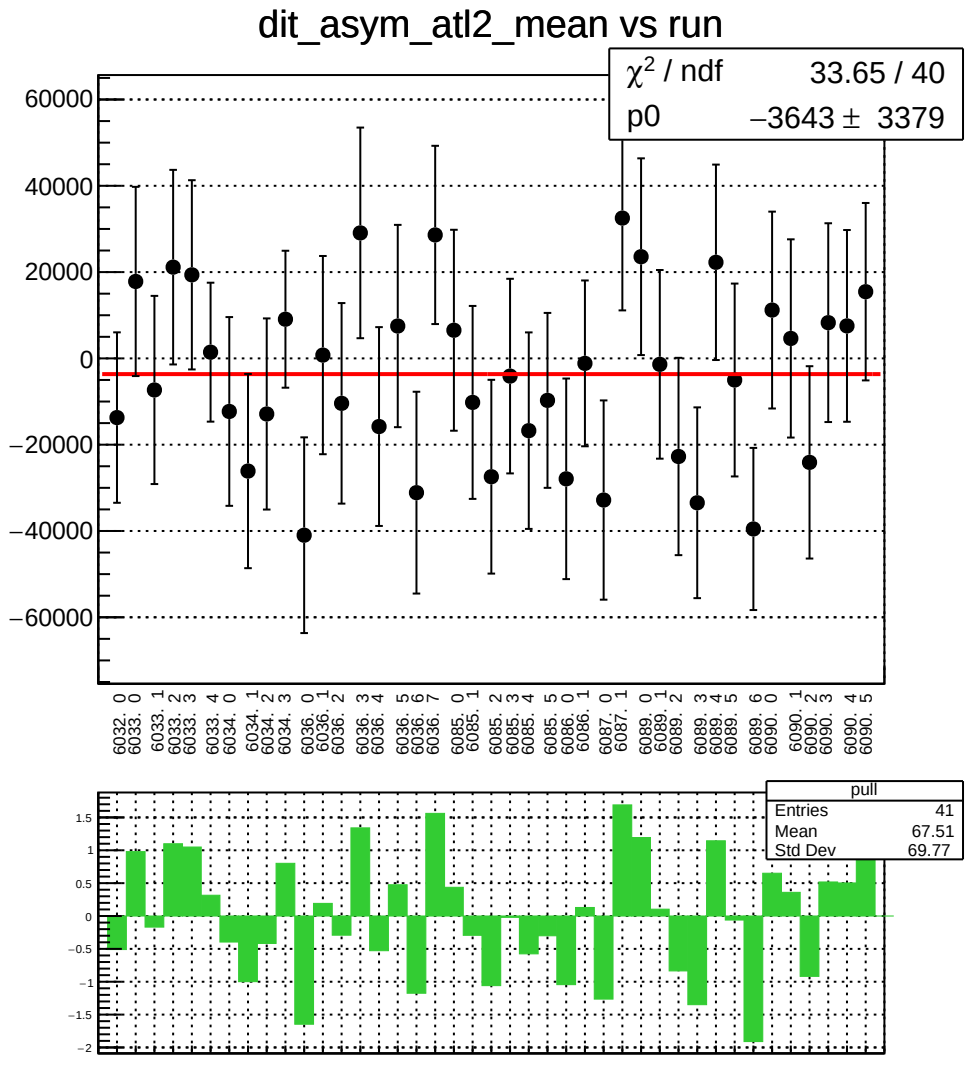

pull1D
Entries 41
Mean −0.05207
Std Dev 0.9489
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

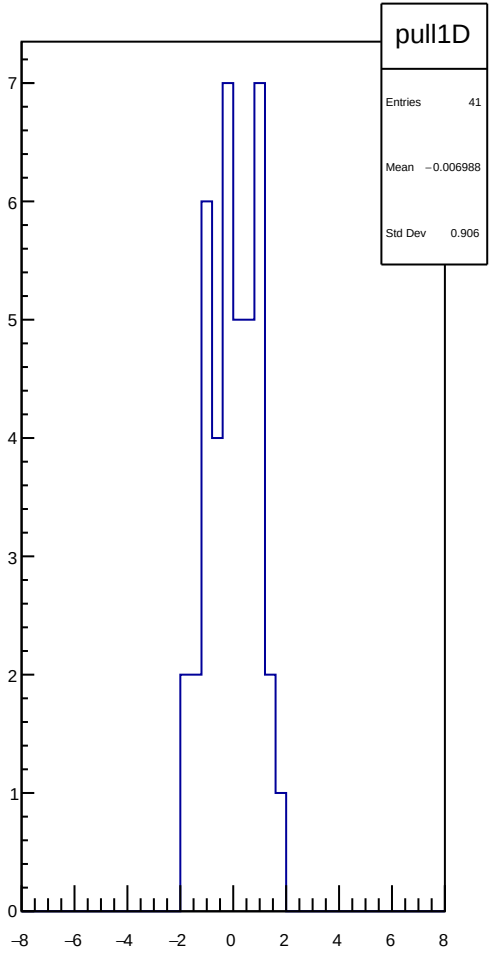

asym_atl1_correction_rms vs run
χ² / ndf 2.652e+04 / 40
p0 787.4 ± 0.8864
1200
1100
1000
900
800
700
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

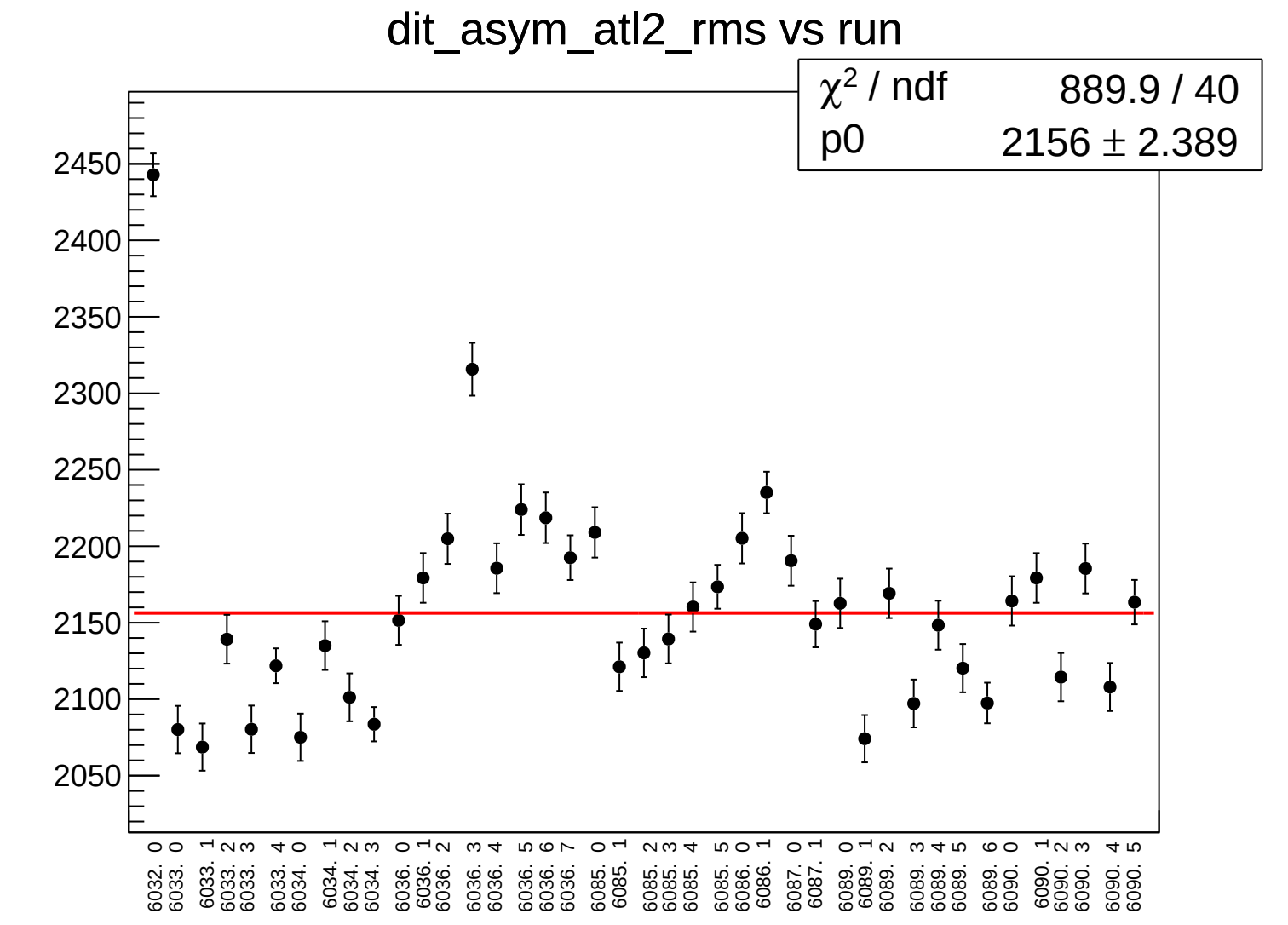

asym_atl1_mean vs run
χ² / ndf 34.07 / 40
p0 −4551 ± 3978
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 238
Std Dev 218.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

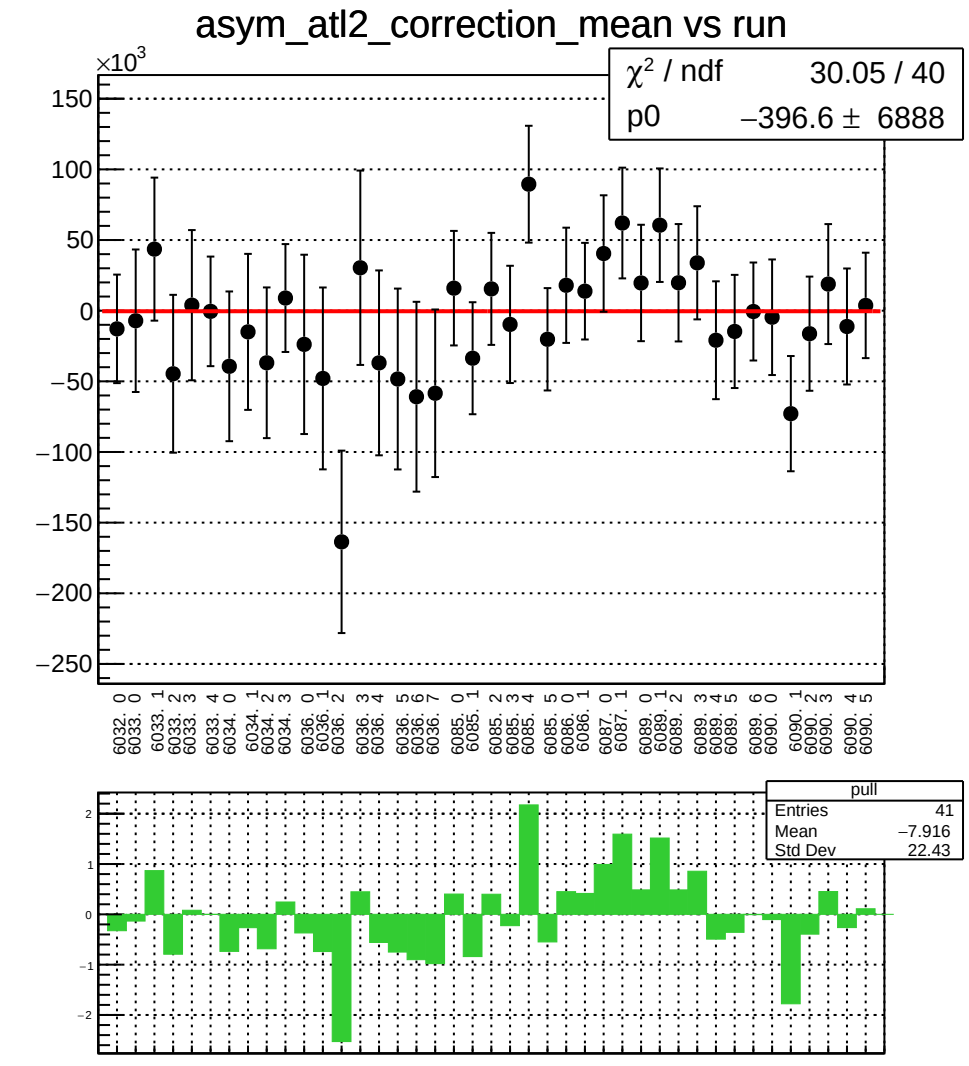

pull1D
Entries 41
Mean 0.01253
Std Dev 0.9115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

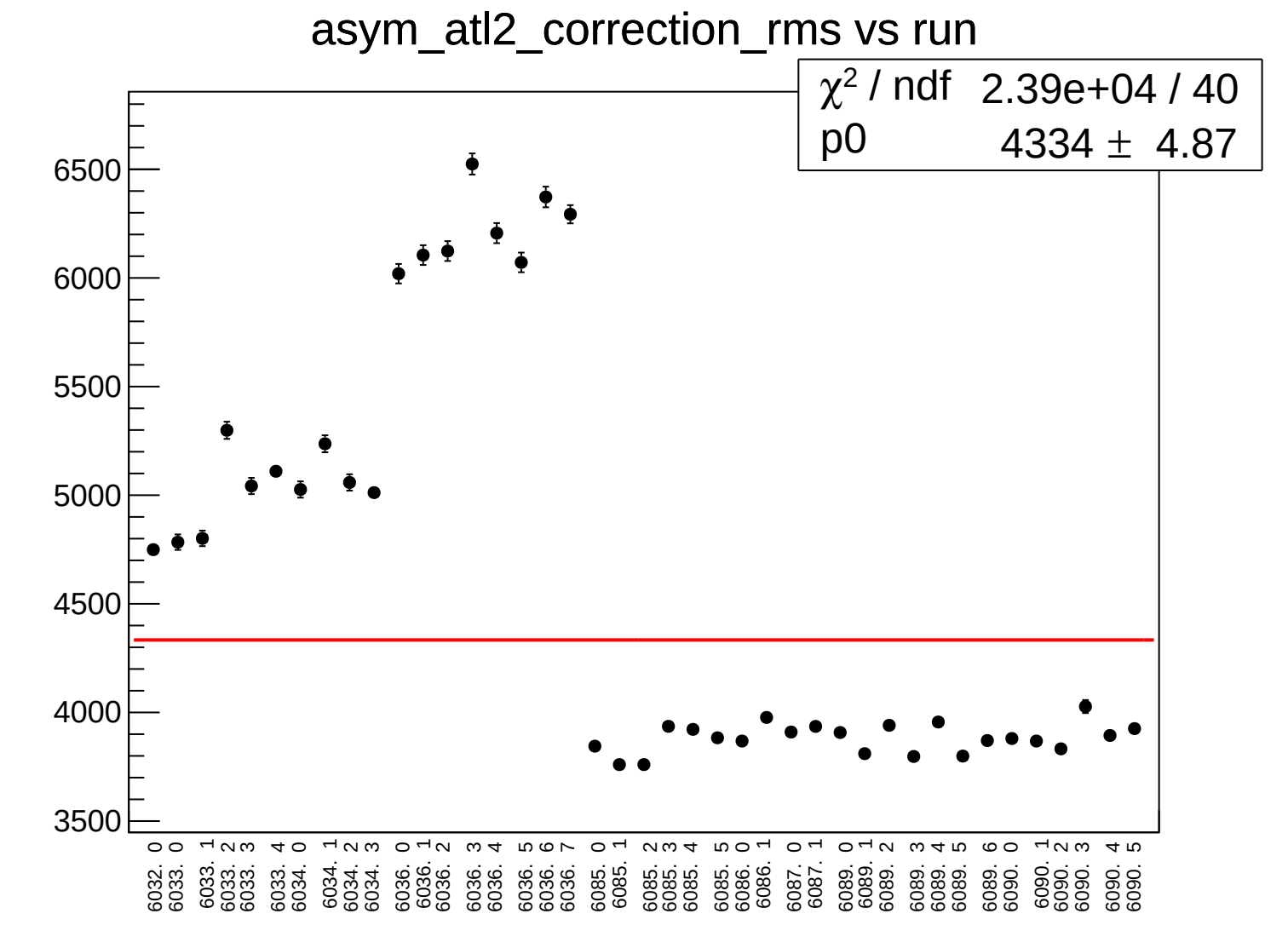

asym_atl1_rms vs run
χ² / ndf 930.8 / 40
p0 2539 ± 2.813
2900
2800
2700
2600
2500
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

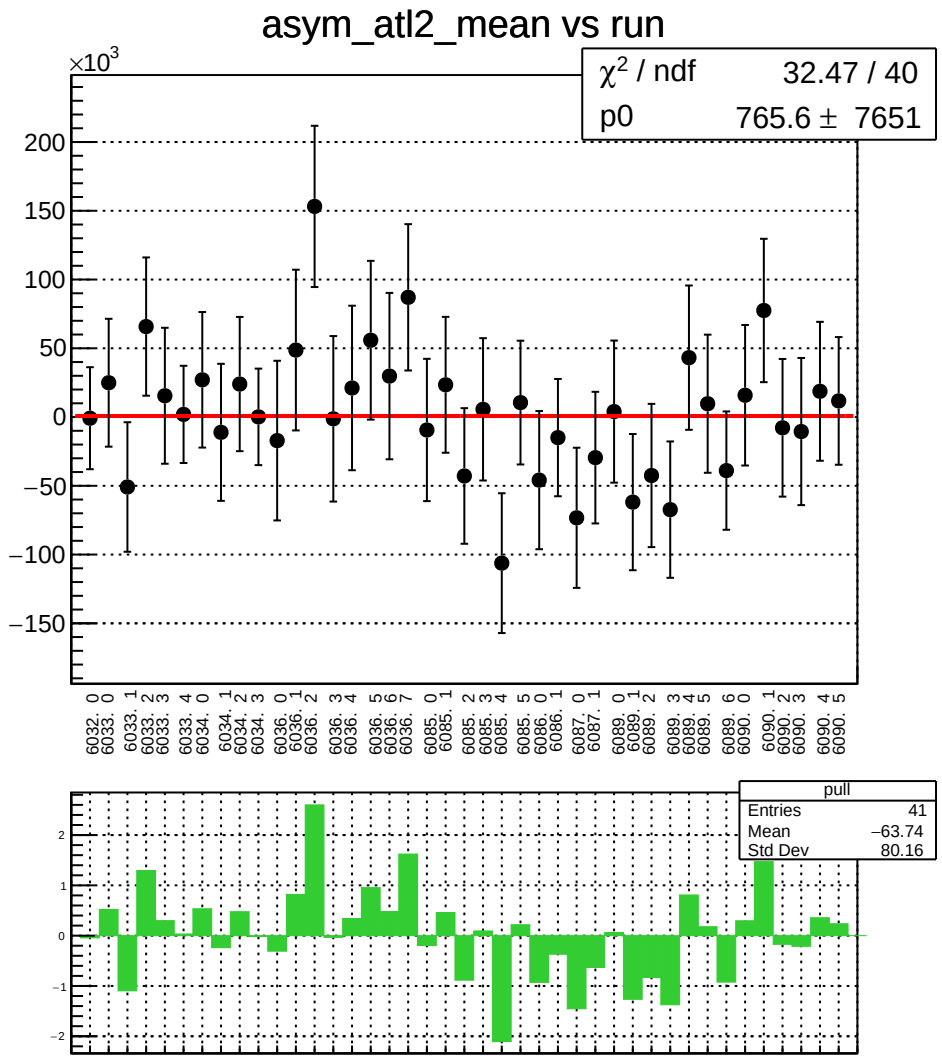

dit_asym_atl2_mean vs run
χ² / ndf 33.65 / 40
p0 −3643 ± 3379
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 67.51
Std Dev 69.77
1.5
1
0.5
0
−0.5
−1
−1.5
−2

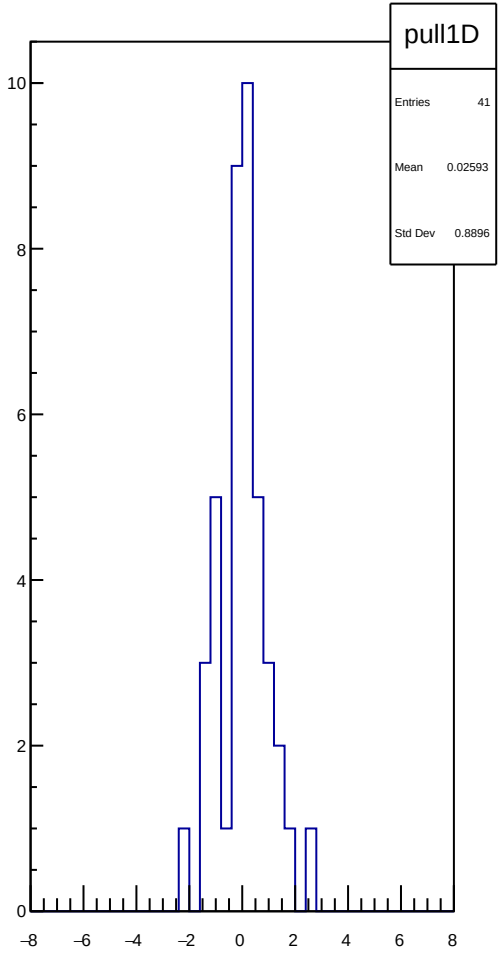

pull1D
Entries 41
Mean −0.006988
Std Dev 0.906
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

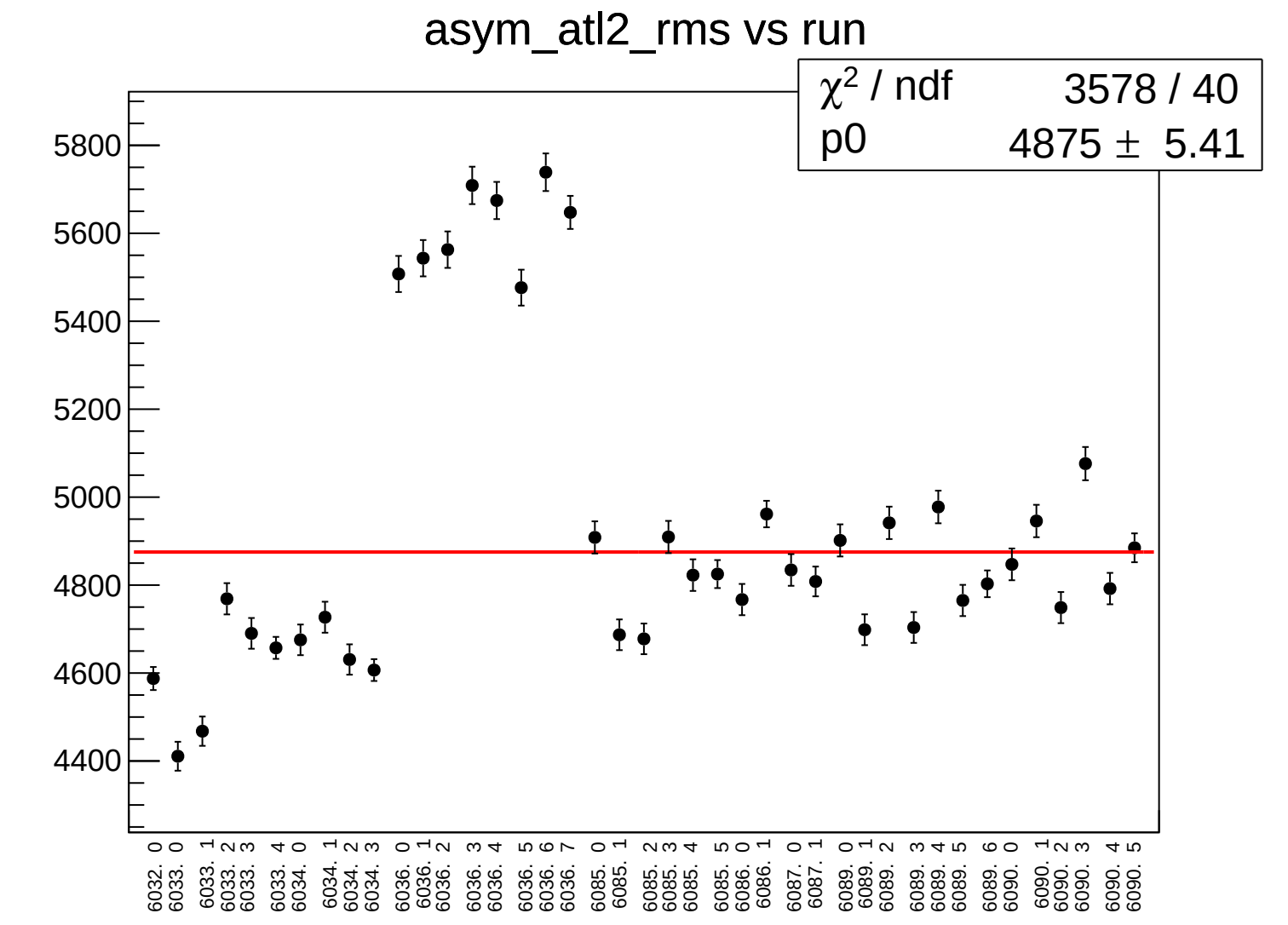

dit_asym_atl2_rms vs run
χ² / ndf 889.9 / 40
p0 2156 ± 2.389
2450
2400
2350
2300
2250
2200
2150
2100
2050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

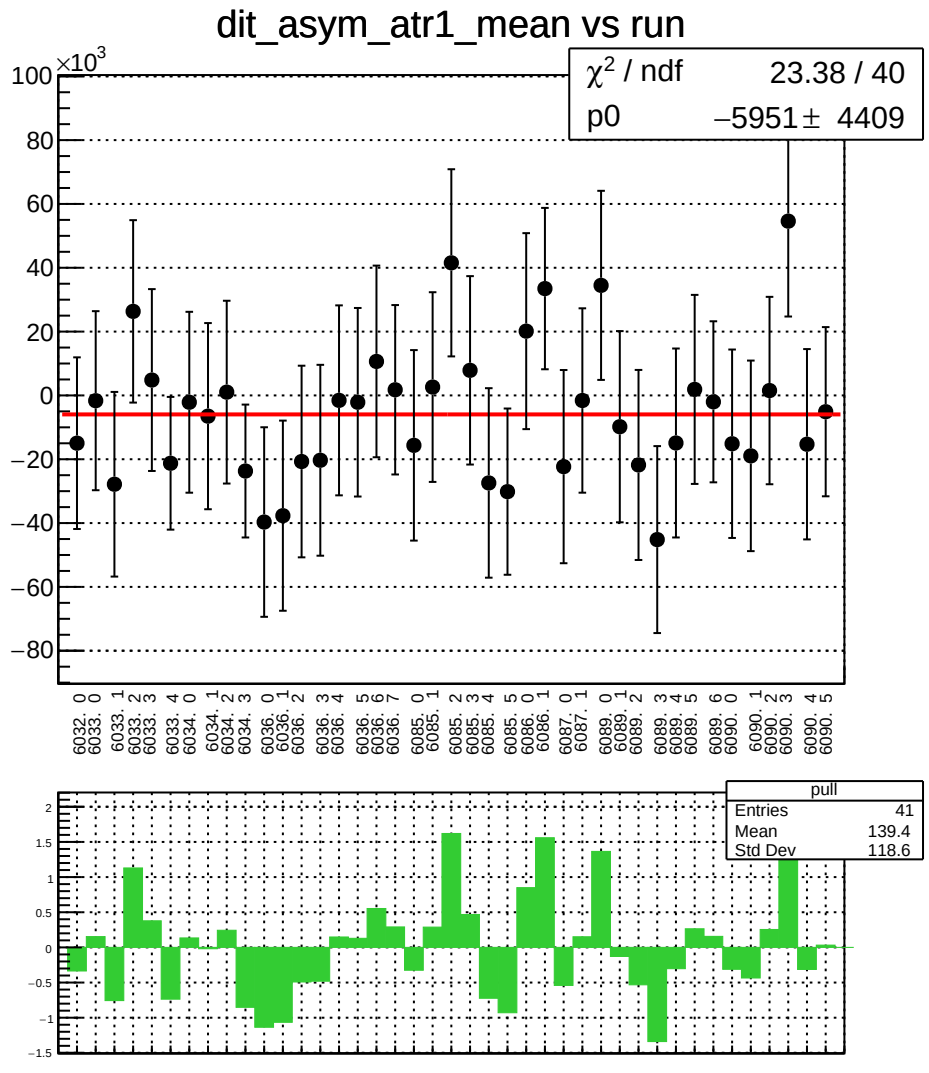

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 30.05 / 40
p0 −396.6 ± 6888
150
100
50
0
−50
−100
−150
−200
−250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −7.916
Std Dev 22.43
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.06806
Std Dev 0.8535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

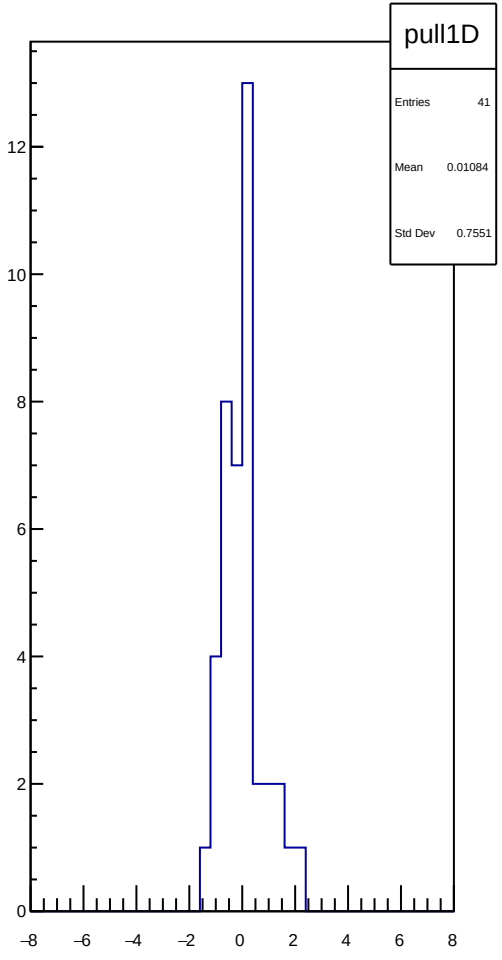

asym_atl2_correction_rms vs run
χ² / ndf 2.39e+04 / 40
p0 4334 ± 4.87
6500
6000
5500
5000
4500
4000
3500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

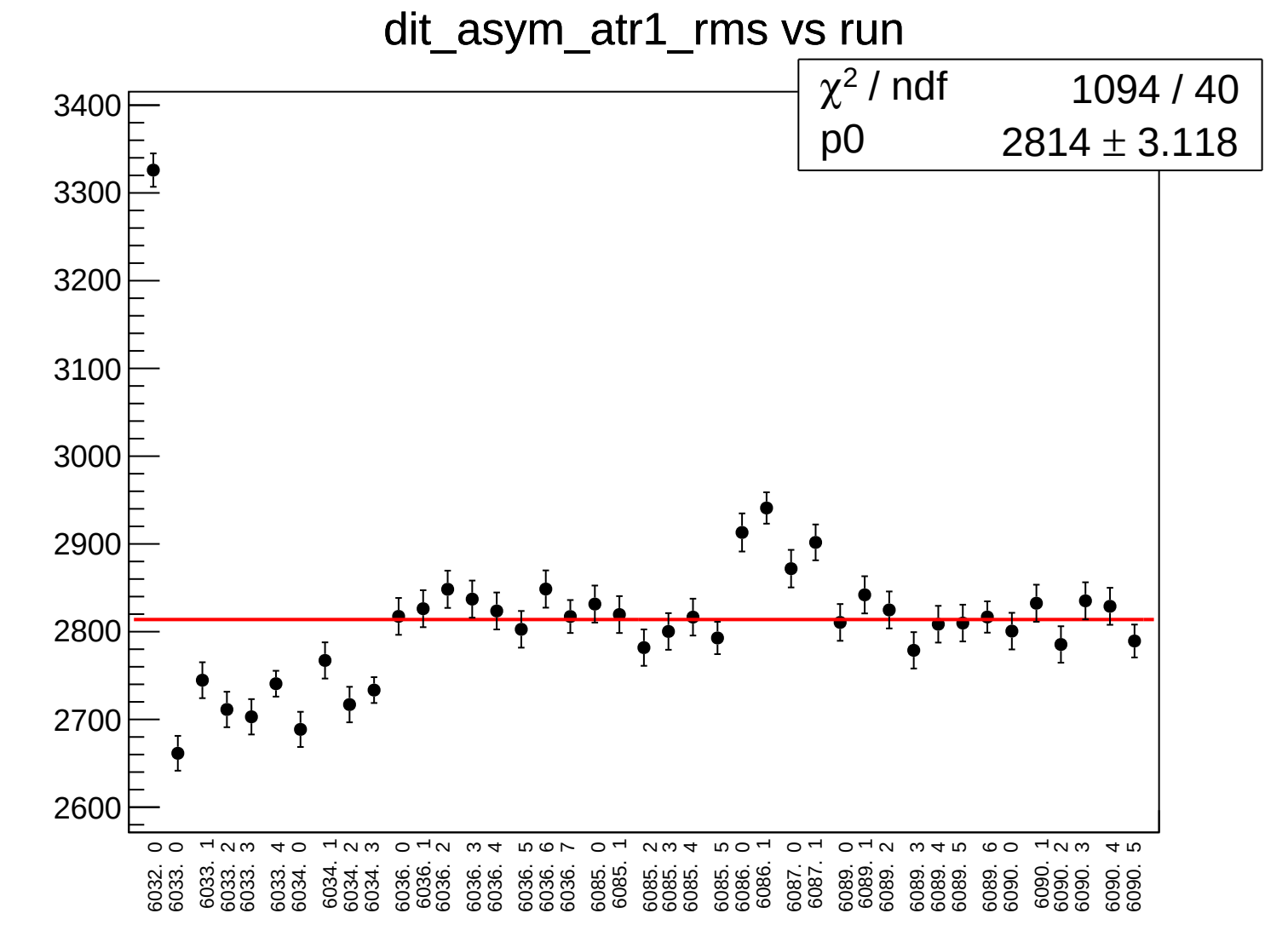

asym_atl2_mean vs run
×10^3
χ^2 / ndf 32.47 / 40
p0 765.6 ± 7651
200
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −63.74
Std Dev 80.16
2
1
0
−1
−2

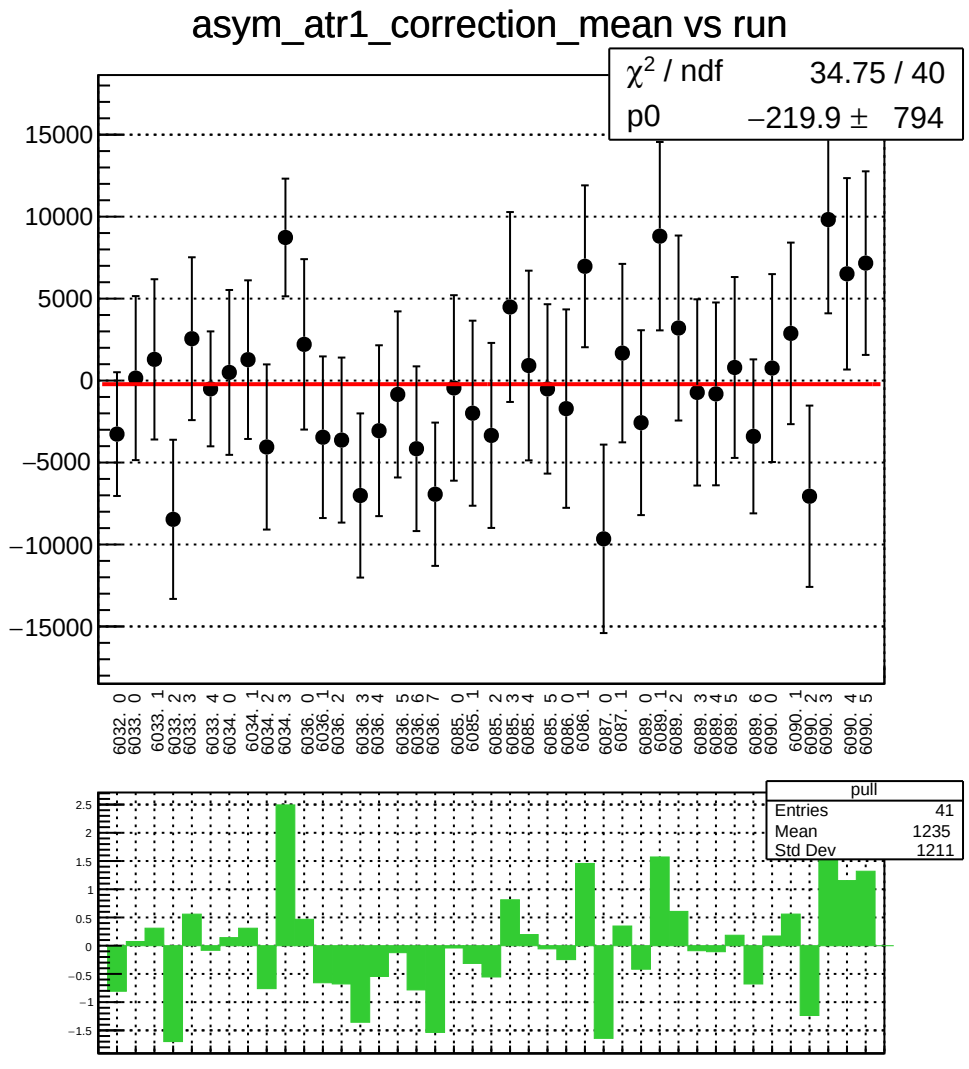

pull1D
Entries 41
Mean 0.02593
Std Dev 0.8896
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

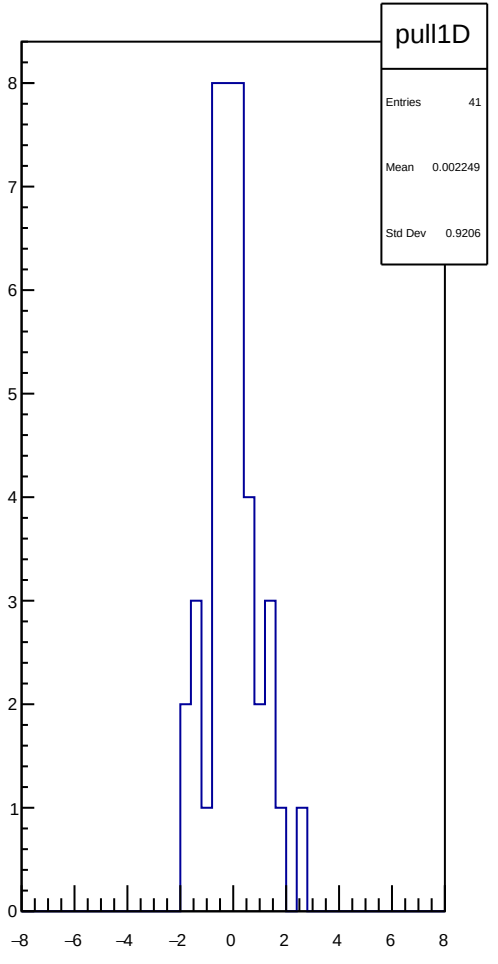

asym_atl2_rms vs run
χ² / ndf 3578 / 40
p0 4875 ± 5.41
5800
5600
5400
5200
5000
4800
4600
4400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

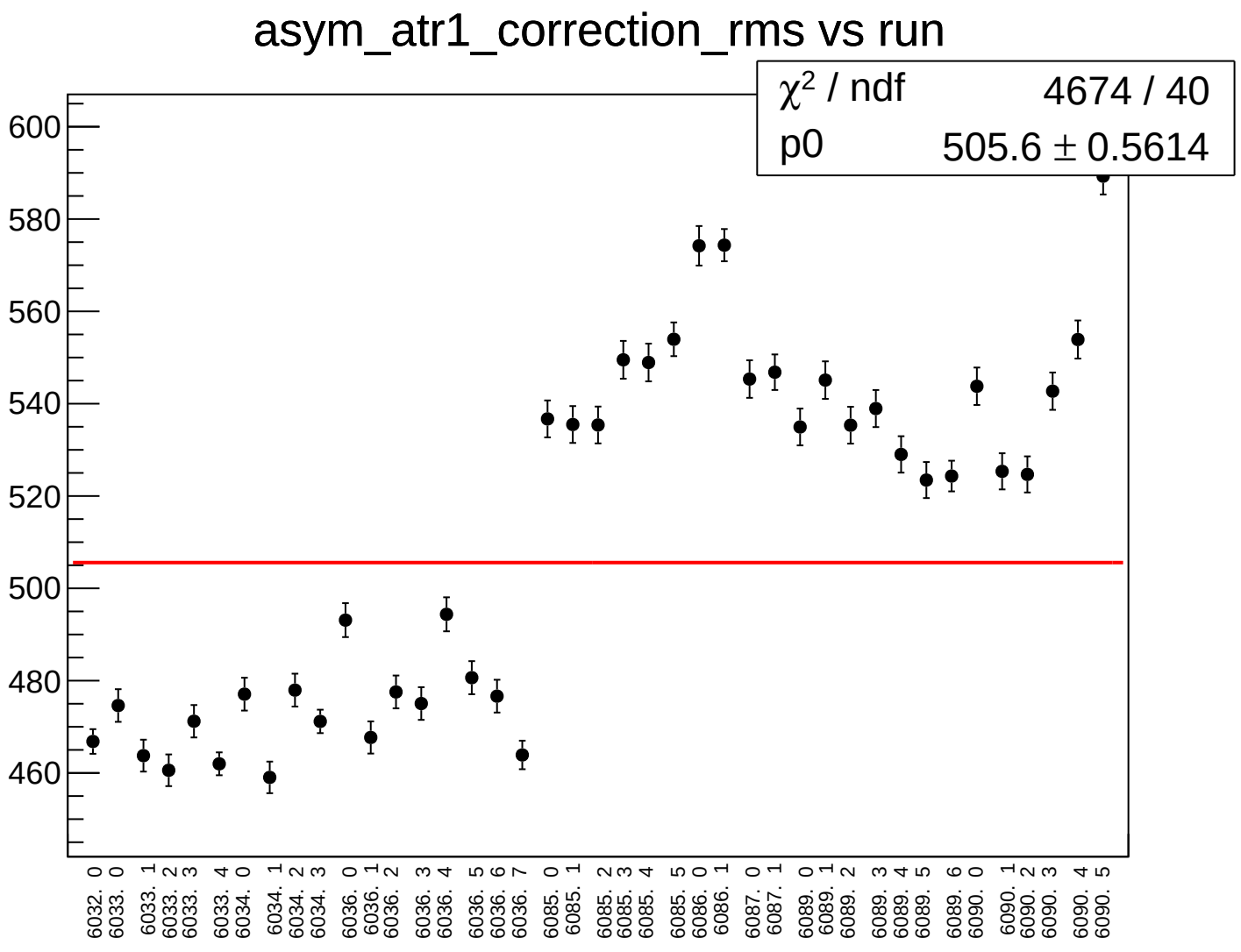

dit_asym_atr1_mean vs run
χ² / ndf 23.38 / 40
p0 −5951 ± 4409
×10³
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 139.4
Std Dev 118.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

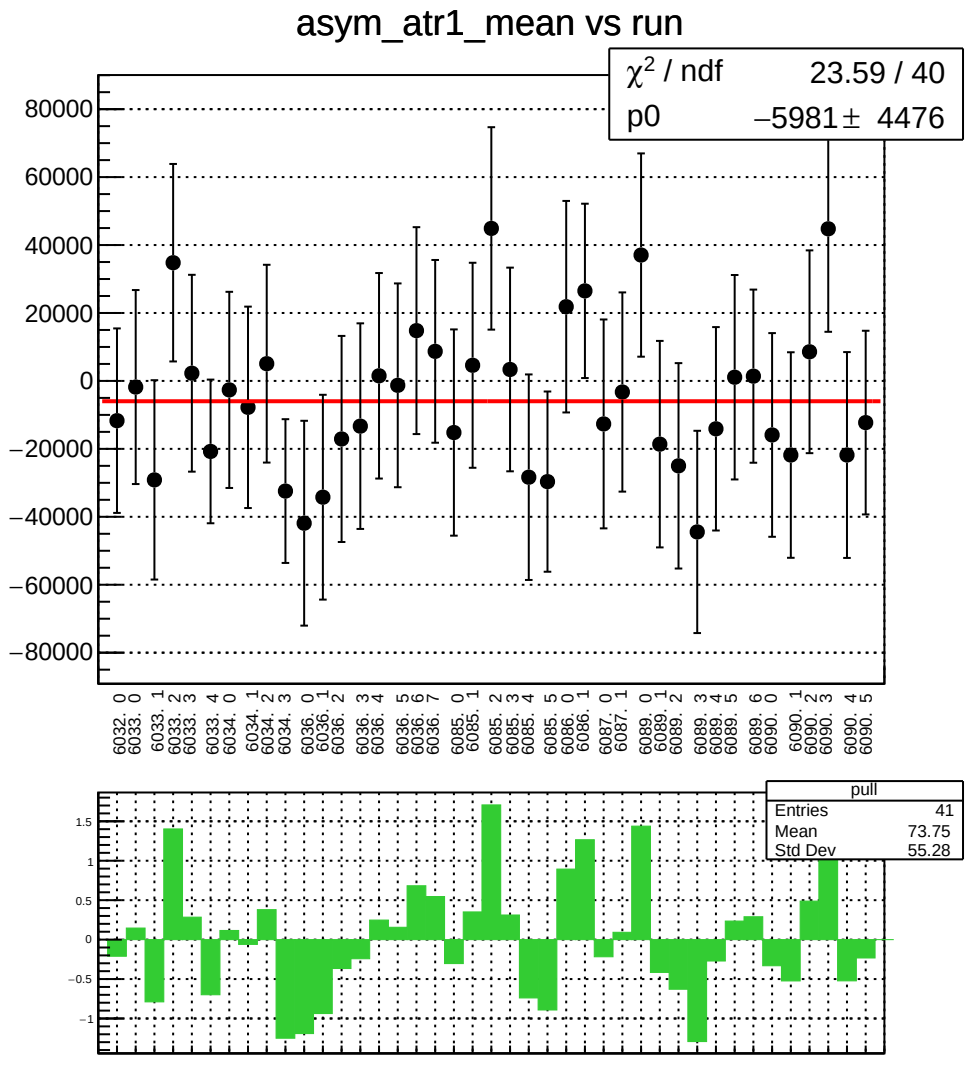

pull1D
Entries 41
Mean 0.01084
Std Dev 0.7551
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

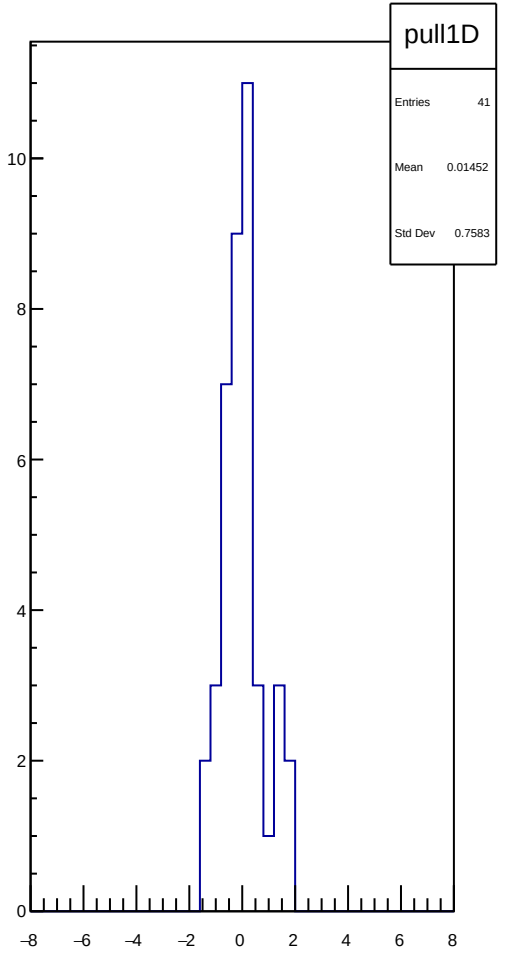

dit_asym_atr1_rms vs run
χ² / ndf 1094 / 40
p0 2814 ± 3.118
3400
3300
3200
3100
3000
2900
2800
2700
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

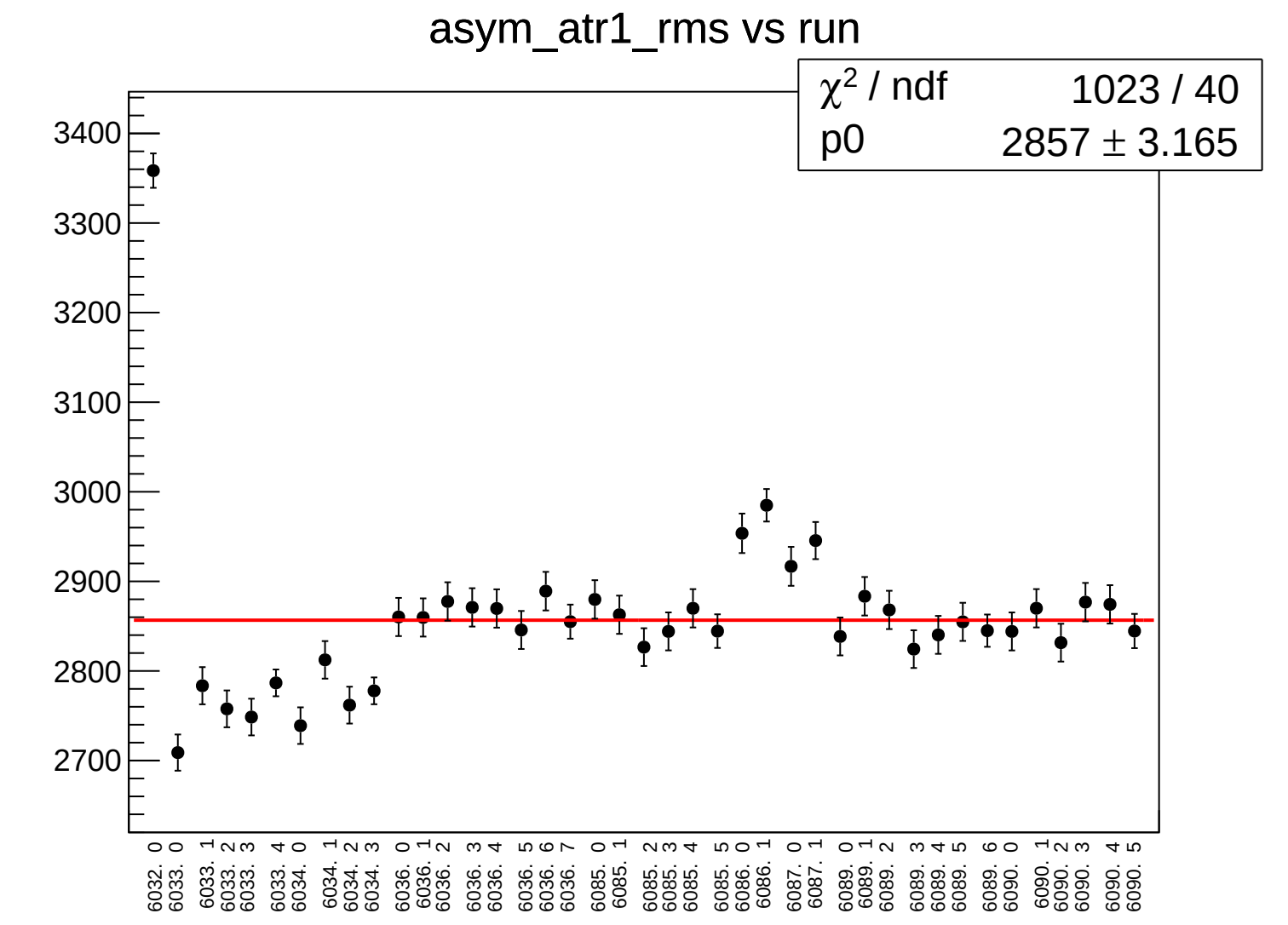

asym_atr1_correction_mean vs run
χ² / ndf 34.75 / 40
p0 −219.9 ± 794
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 1235
Std Dev 1211
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

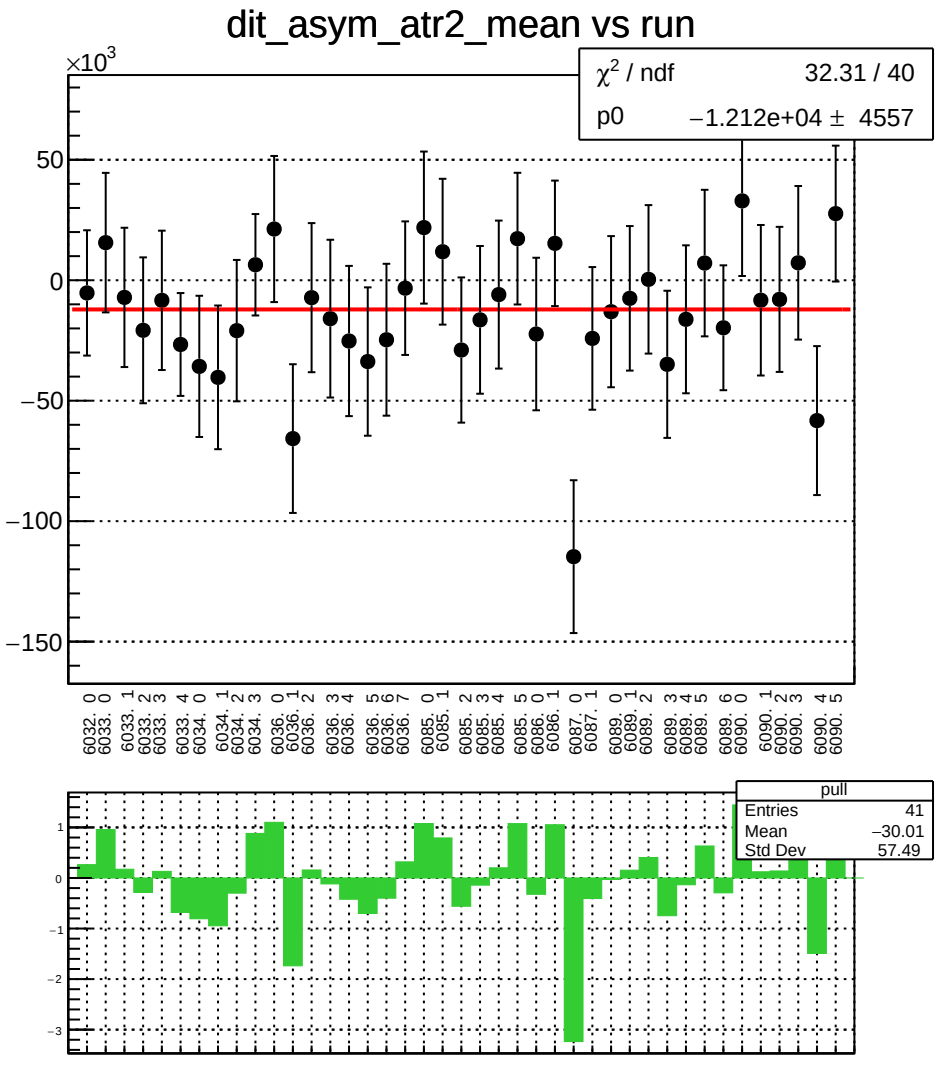

pull1D
Entries 41
Mean 0.002249
Std Dev 0.9206
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

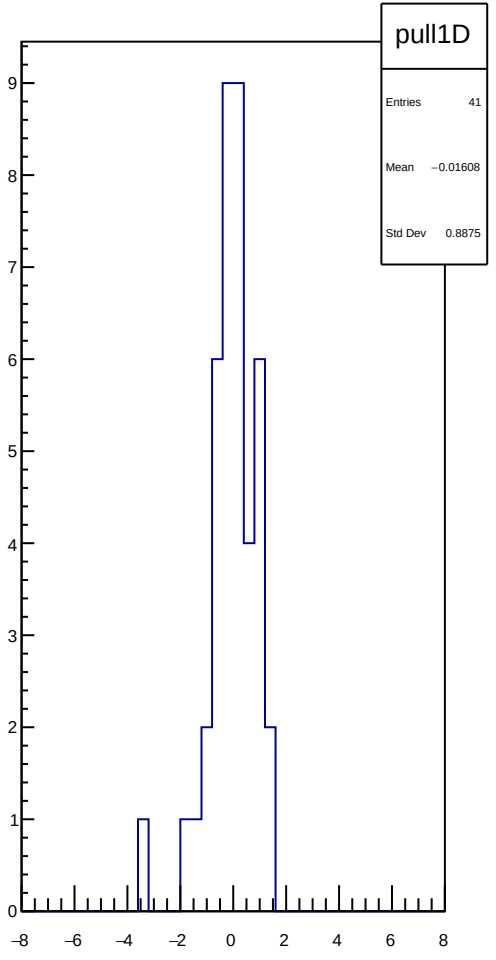

asym_atr1_correction_rms vs run
χ² / ndf 4674 / 40
p0 505.6 ± 0.5614
600
580
560
540
520
500
480
460
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

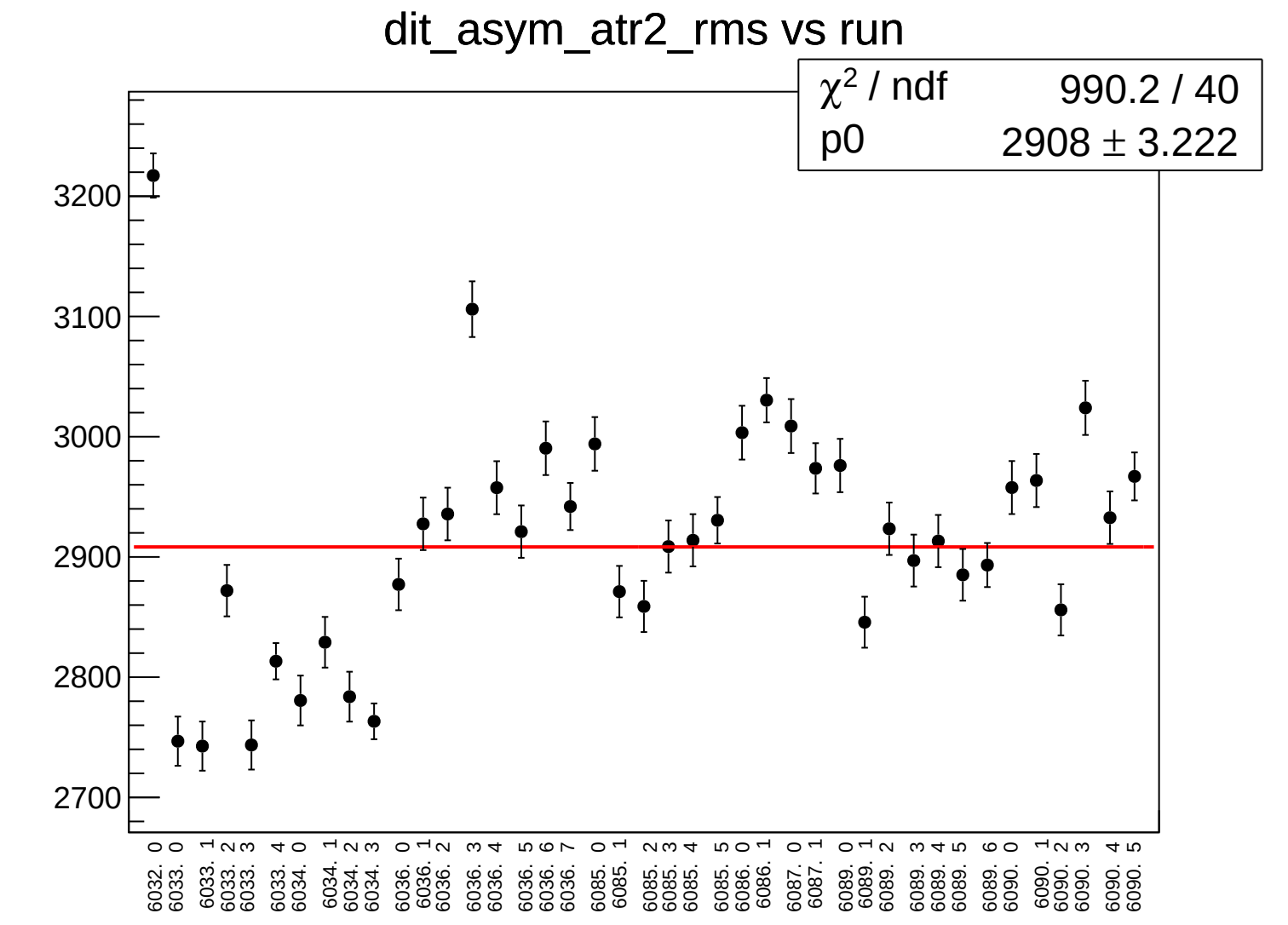

asym_atr1_mean vs run
χ² / ndf 23.59 / 40
p0 −5981 ± 4476
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 73.75
Std Dev 55.28
1.5
1
0.5
0
−0.5
−1

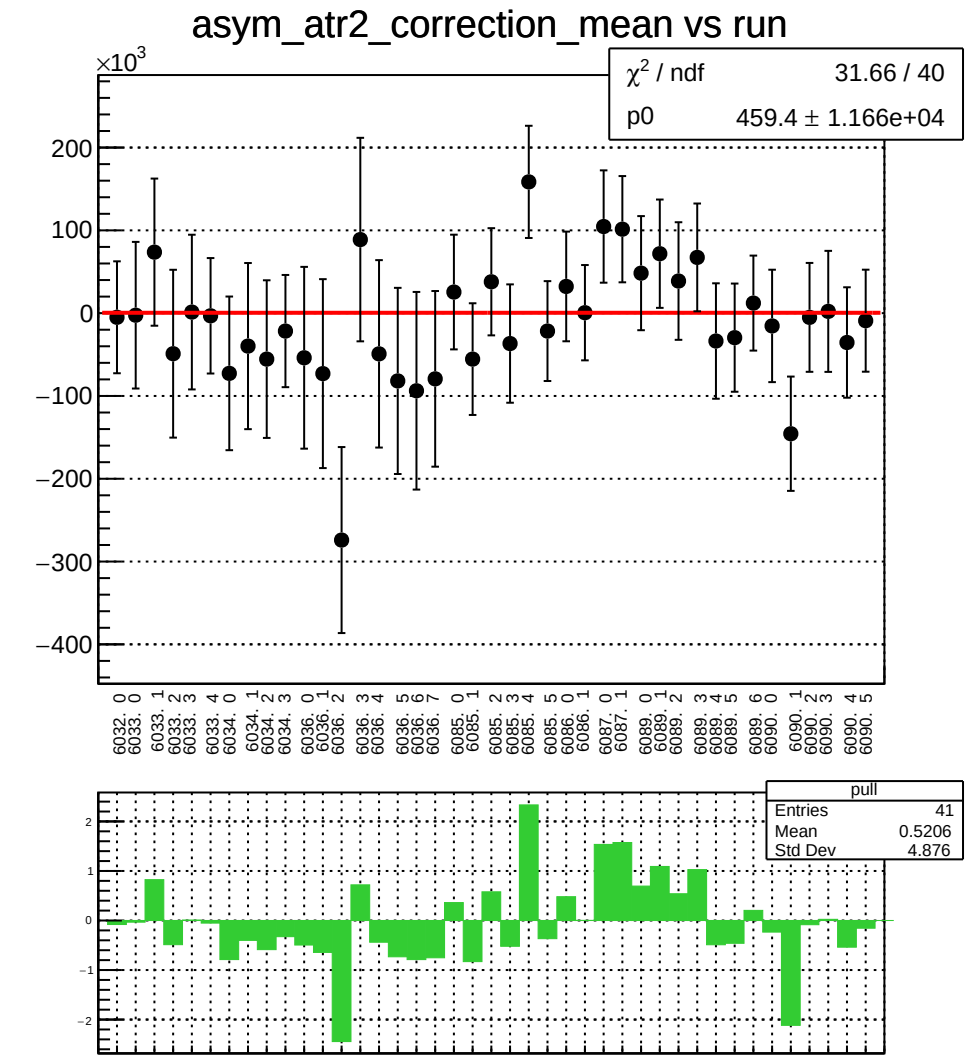

pull1D
Entries 41
Mean 0.01452
Std Dev 0.7583
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

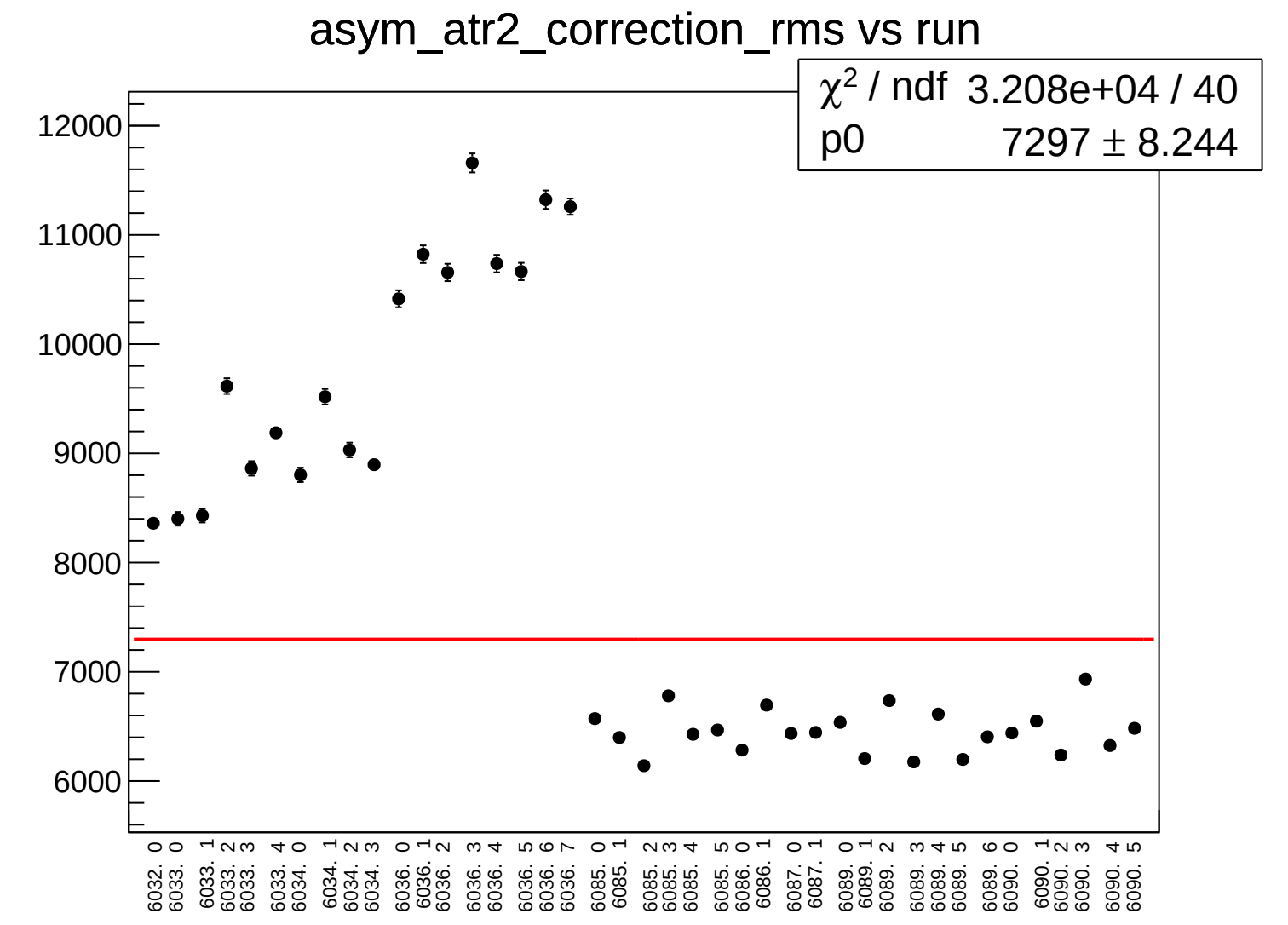

asym_atr1_rms vs run
χ² / ndf 1023 / 40
p0 2857 ± 3.165
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

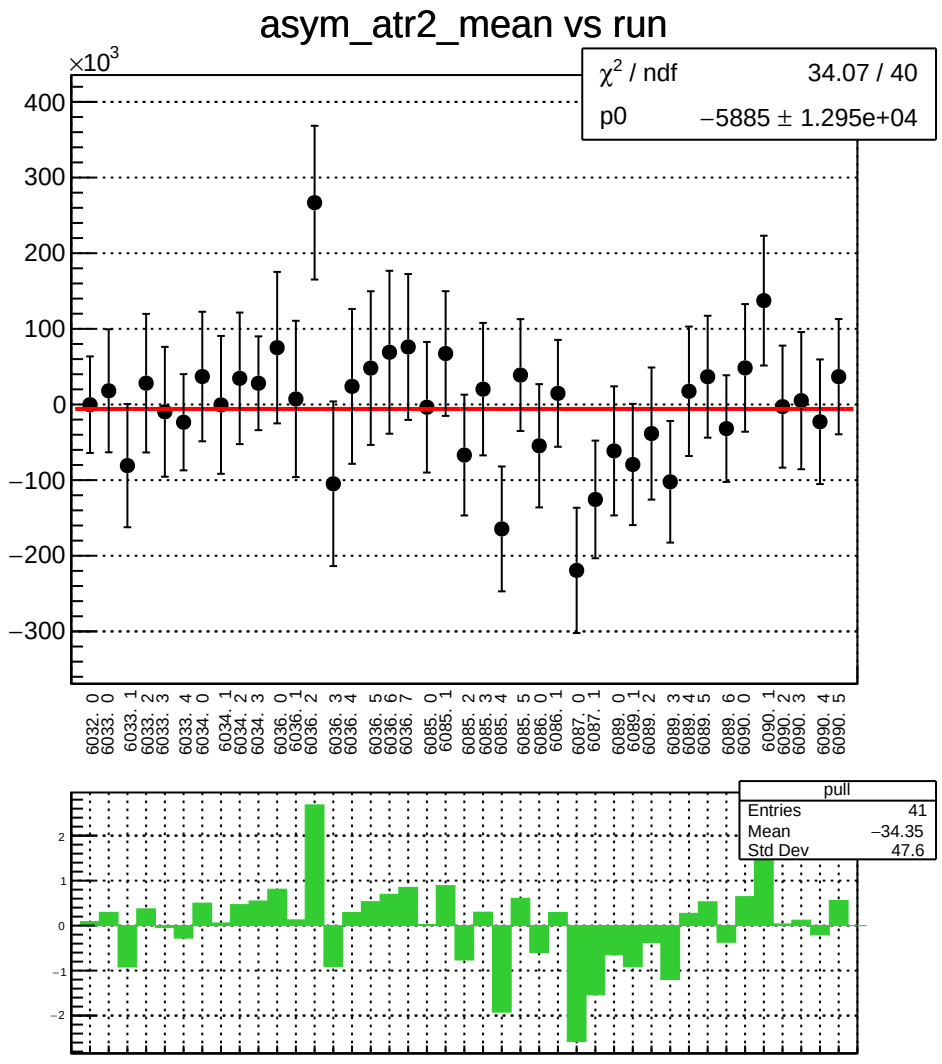

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 32.31 / 40
p0 −1.212e+04 ± 4557
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −30.01
Std Dev 57.49
1
0
−1
−2
−3

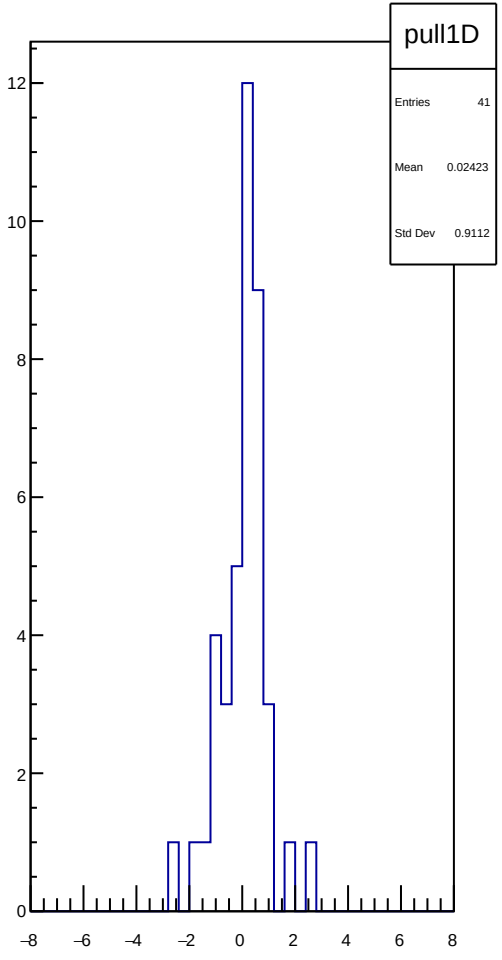

pull1D
Entries 41
Mean −0.01608
Std Dev 0.8875
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

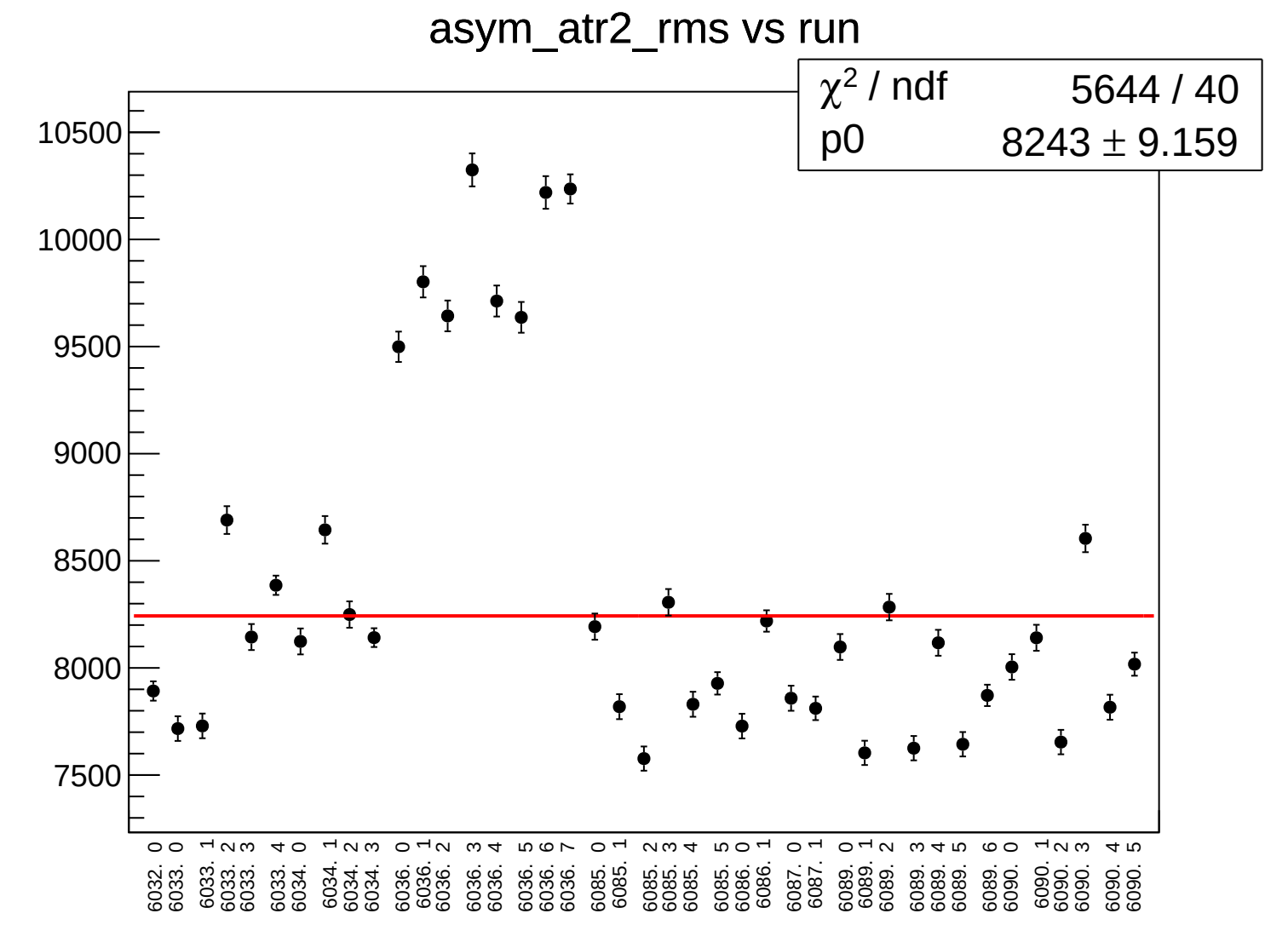

dit_asym_atr2_rms vs run
χ² / ndf 990.2 / 40
p0 2908 ± 3.222
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

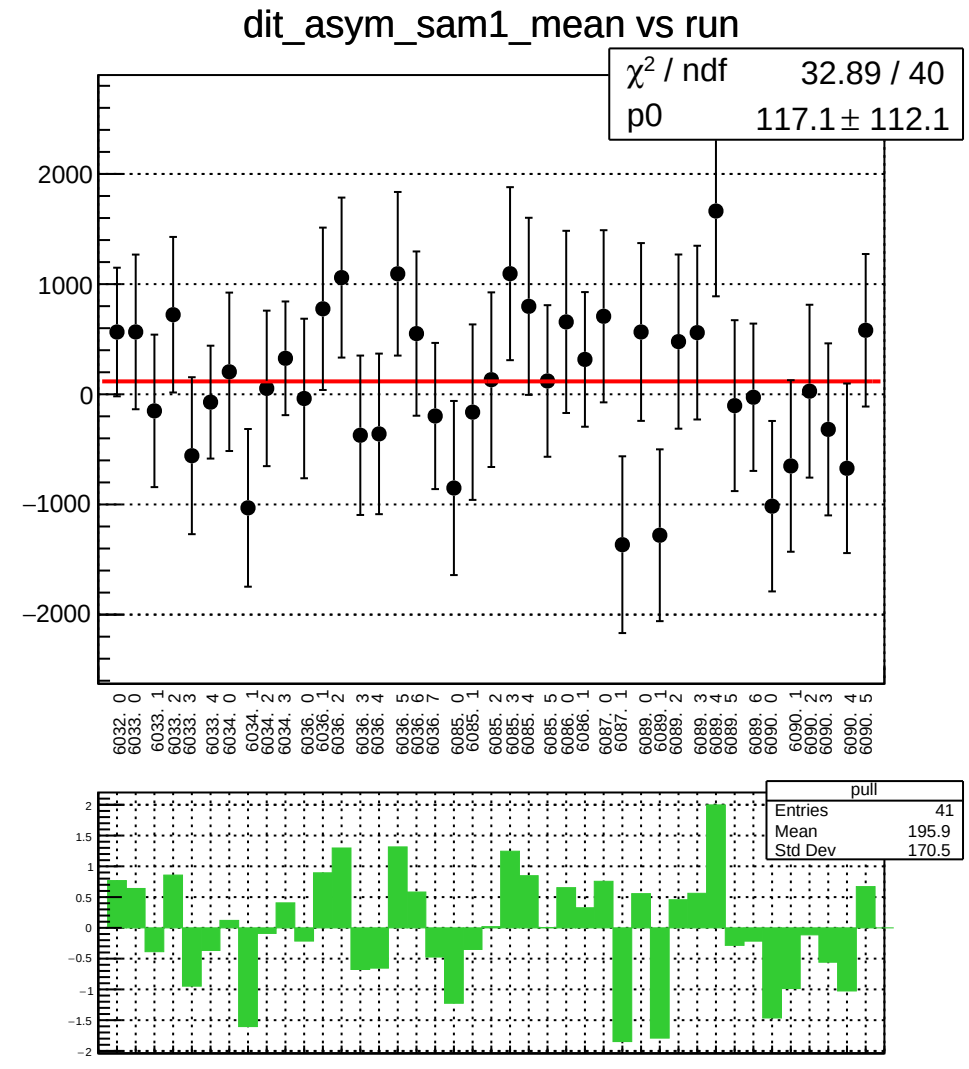

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 31.66 / 40
p0 459.4 ± 1.166e+04
200
100
0
−100
−200
−300
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 0.5206
Std Dev 4.876
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.06943
Std Dev 0.876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

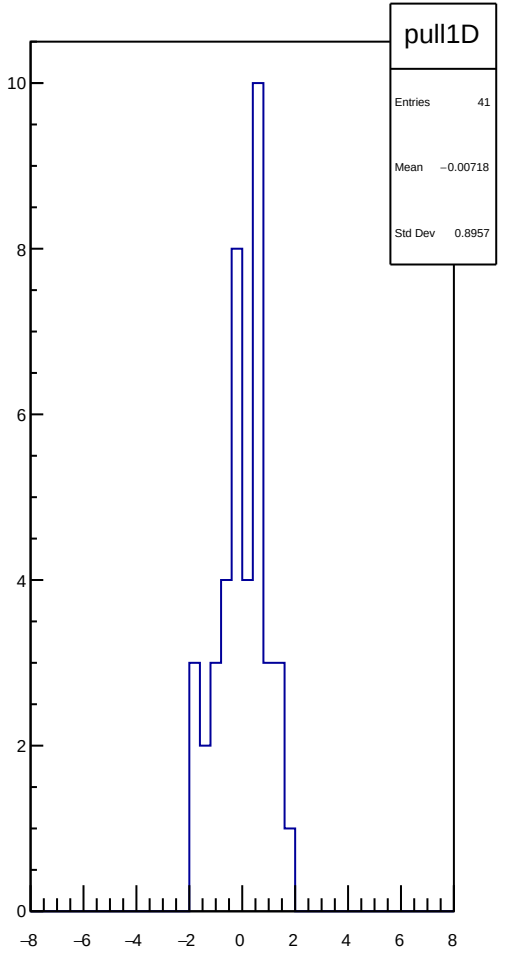

asym_atr2_correction_rms vs run
χ² / ndf 3.208e+04 / 40
p0 7297 ± 8.244
12000
11000
10000
9000
8000
7000
6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

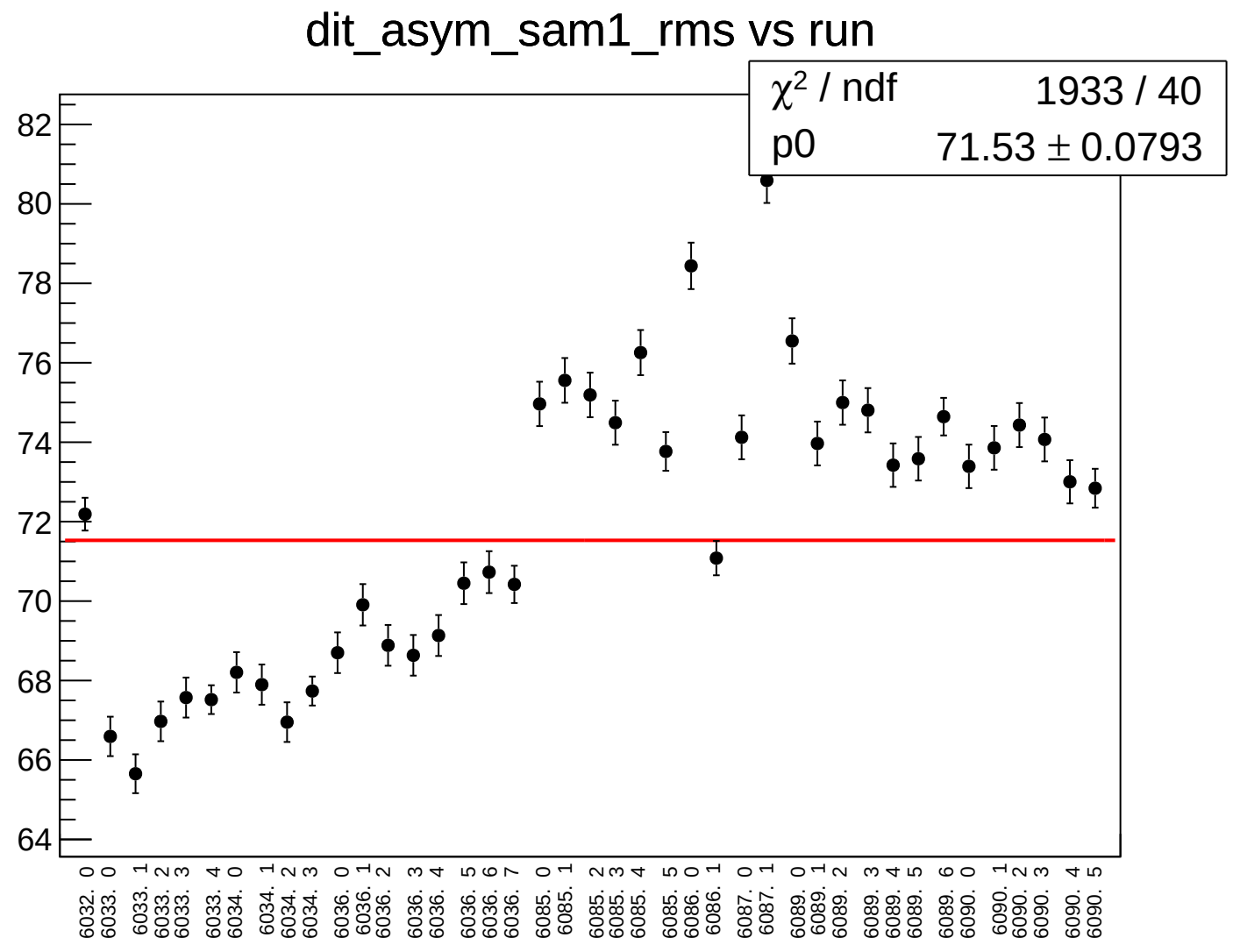

asym_atr2_mean vs run
×10^3
χ² / ndf 34.07 / 40
p0 −5885 ± 1.295e+04
400
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −34.35
Std Dev 47.6
2
1
0
−1
−2

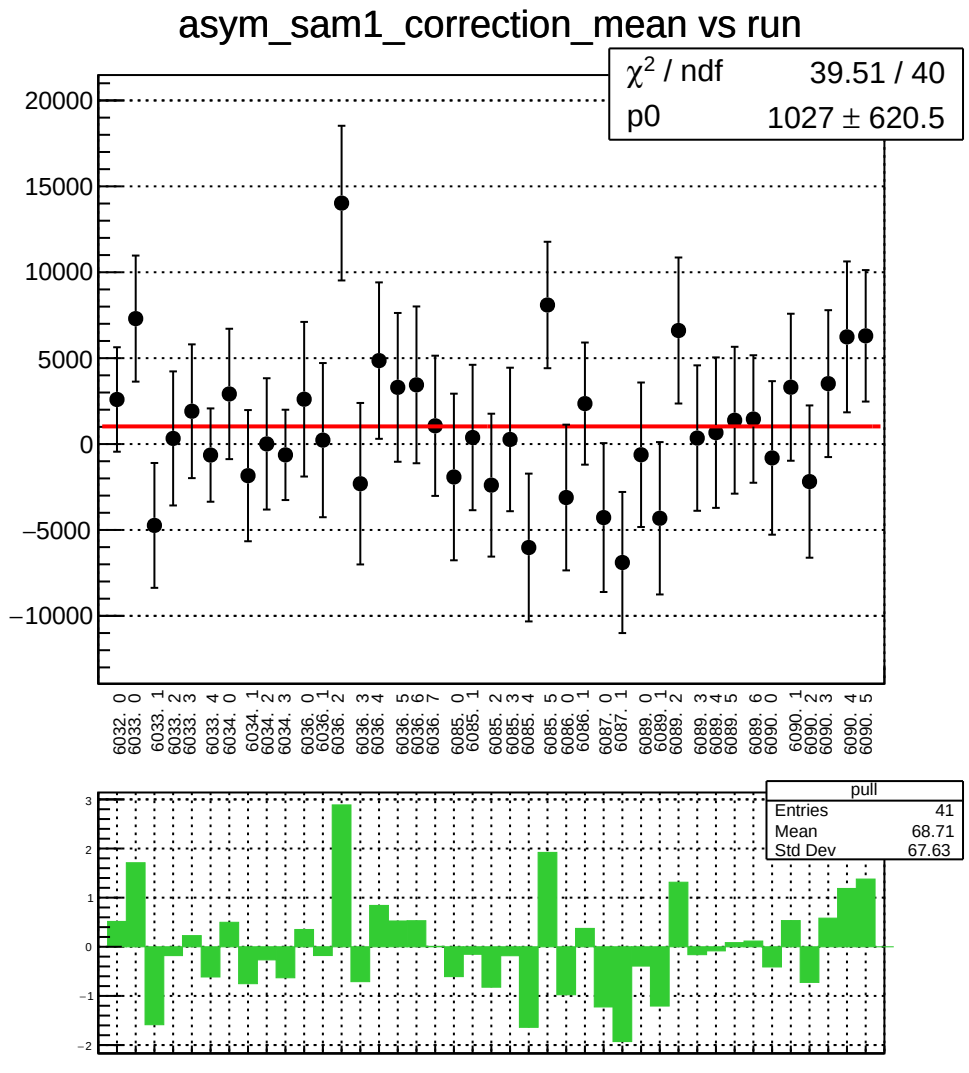

pull1D
Entries 41
Mean 0.02423
Std Dev 0.9112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

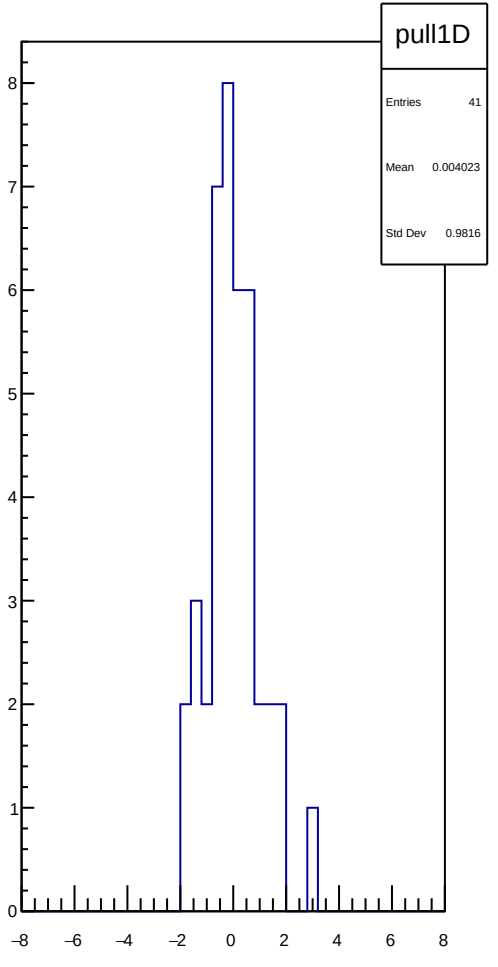

asym_atr2_rms vs run
χ² / ndf 5644 / 40
p0 8243 ± 9.159
10500
10000
9500
9000
8500
8000
7500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

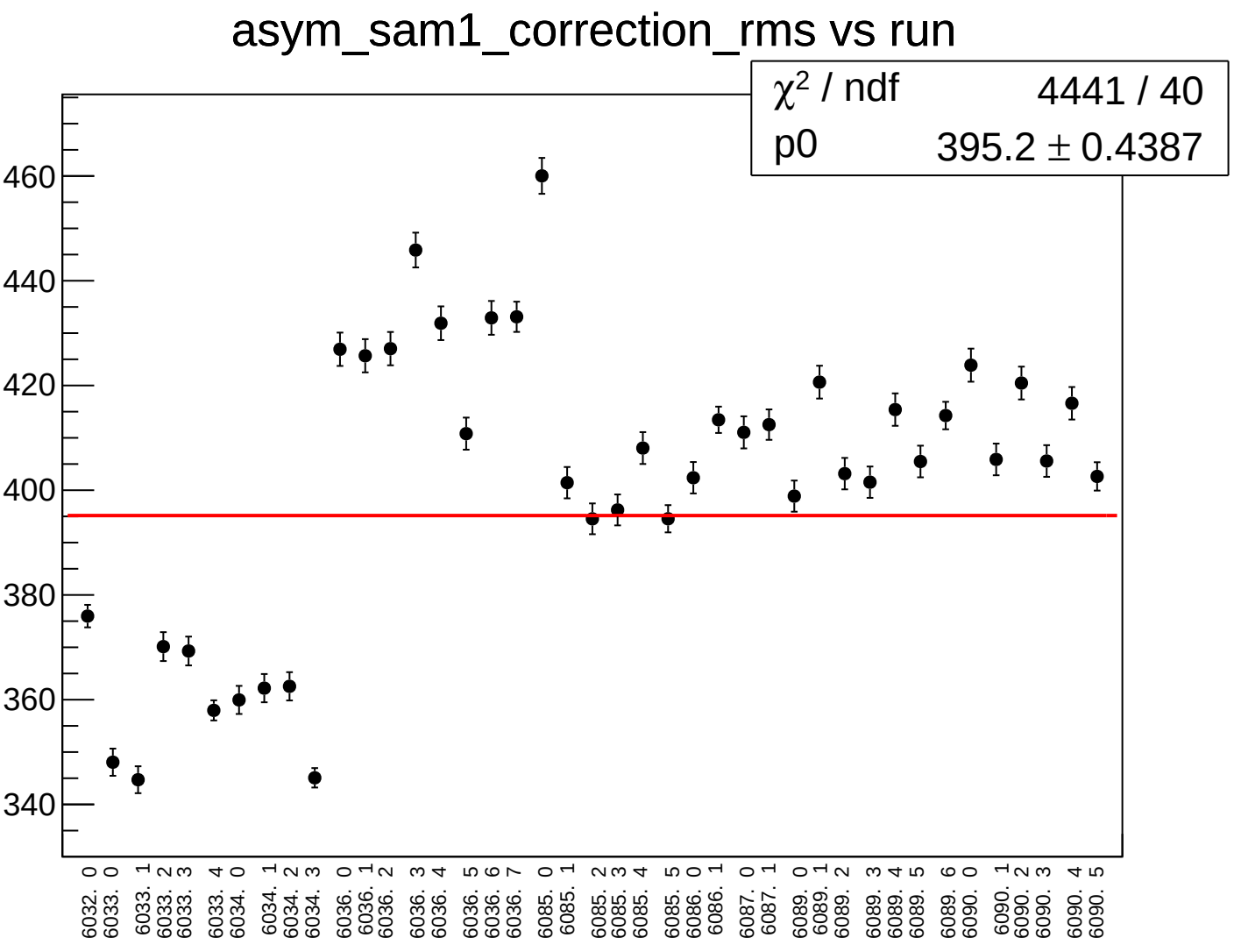

dit_asym_sam1_mean vs run
χ² / ndf 32.89 / 40
p0 117.1 ± 112.1
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 195.9
Std Dev 170.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

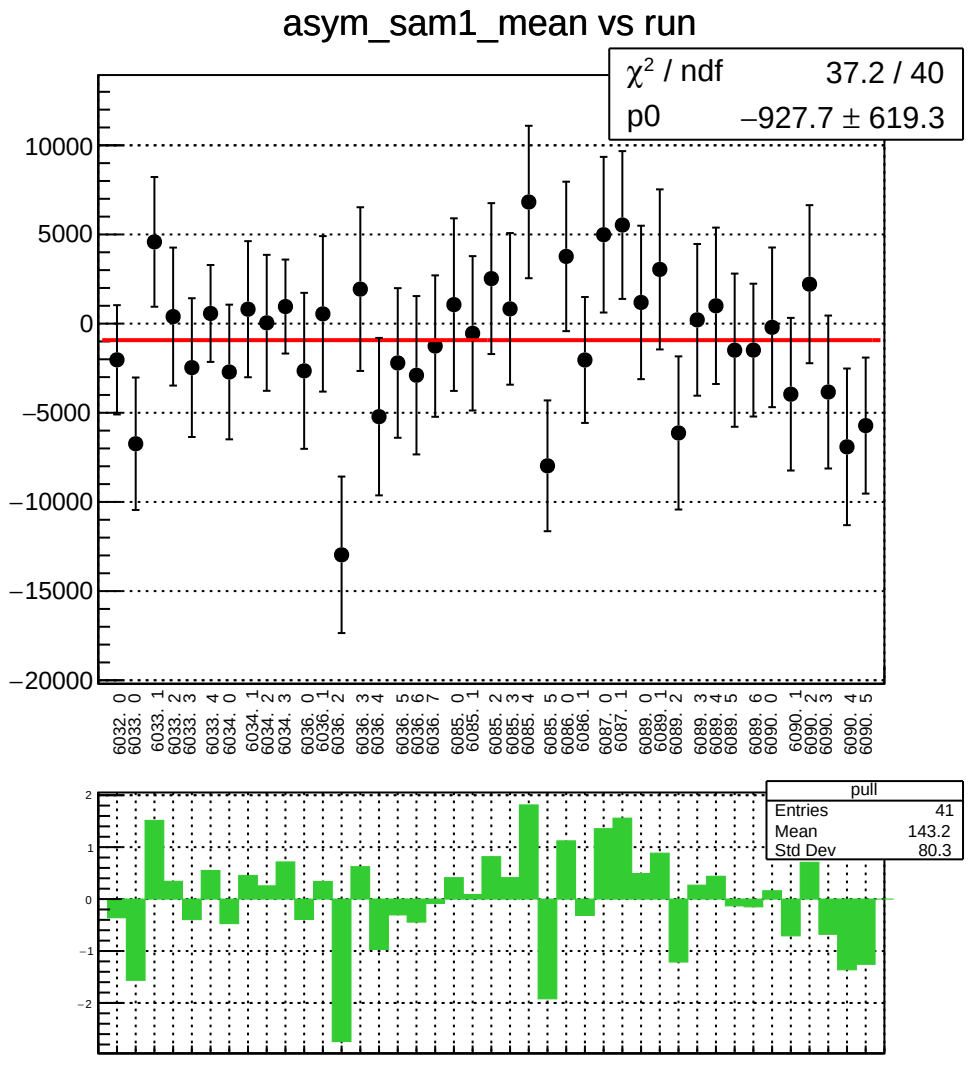

pull1D
Entries 41
Mean −0.00718
Std Dev 0.8957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

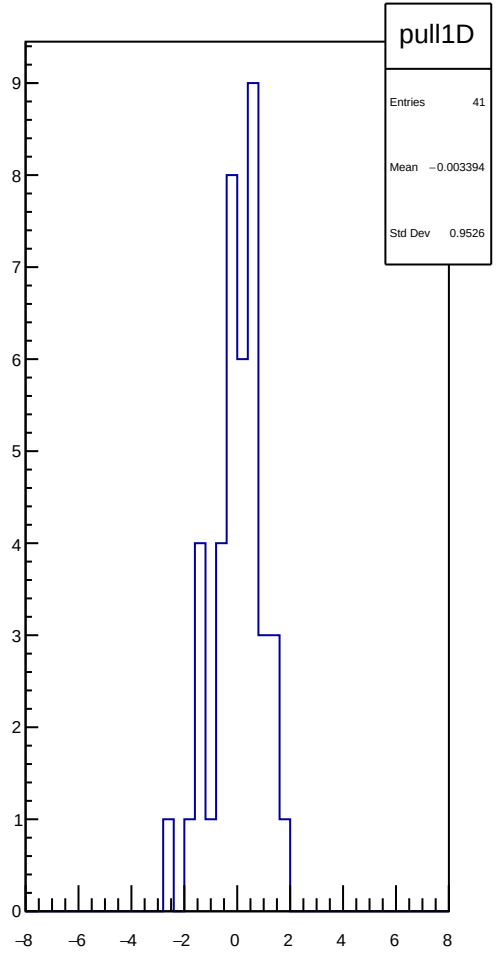

dit_asym_sam1_rms vs run
χ² / ndf 1933 / 40
p0 71.53 ± 0.0793
82
80
78
76
74
72
70
68
66
64
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

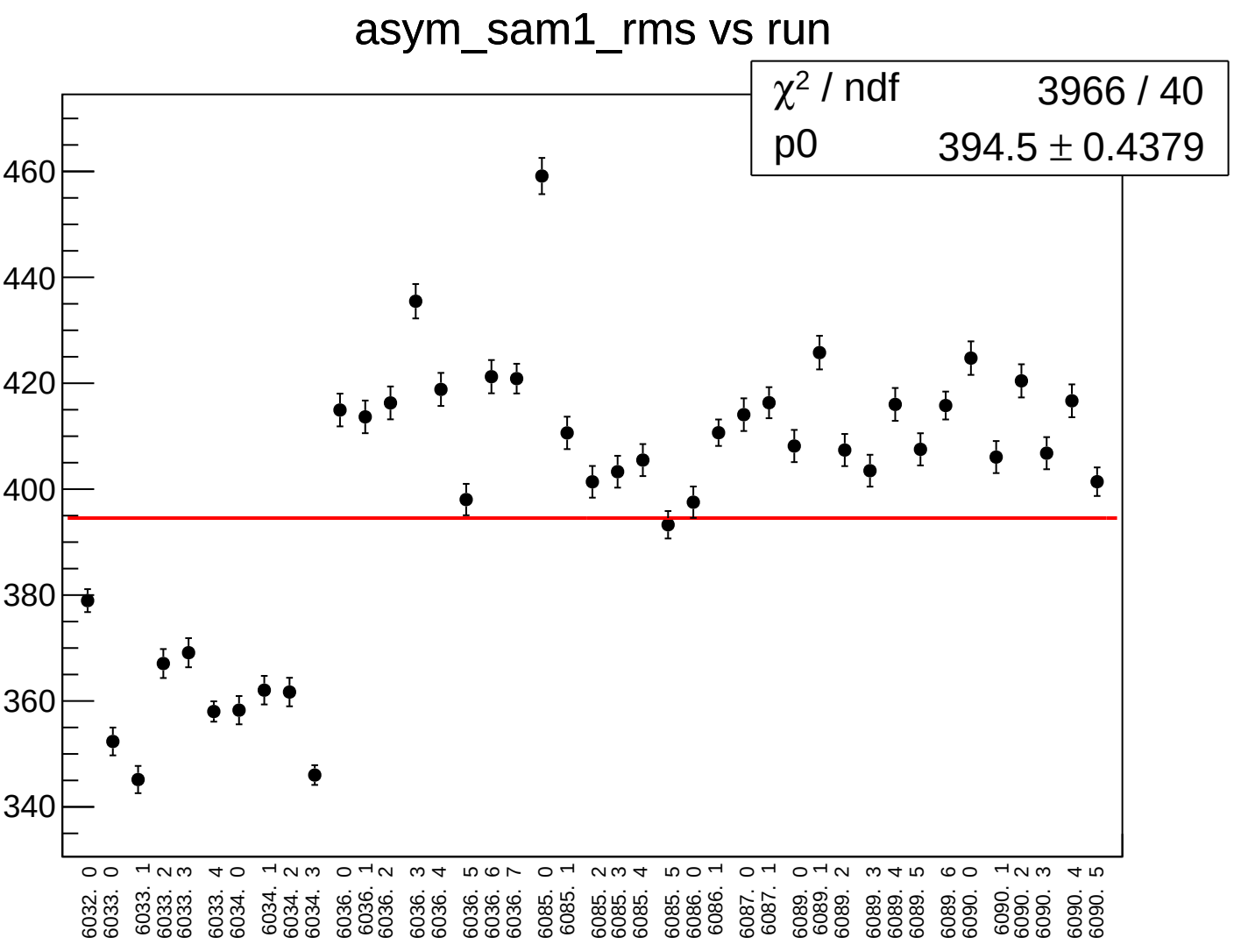

asym_sam1_correction_mean vs run
χ² / ndf 39.51 / 40
p0 1027 ± 620.5
20000
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 68.71
Std Dev 67.63
3
2
1
0
−1
−2

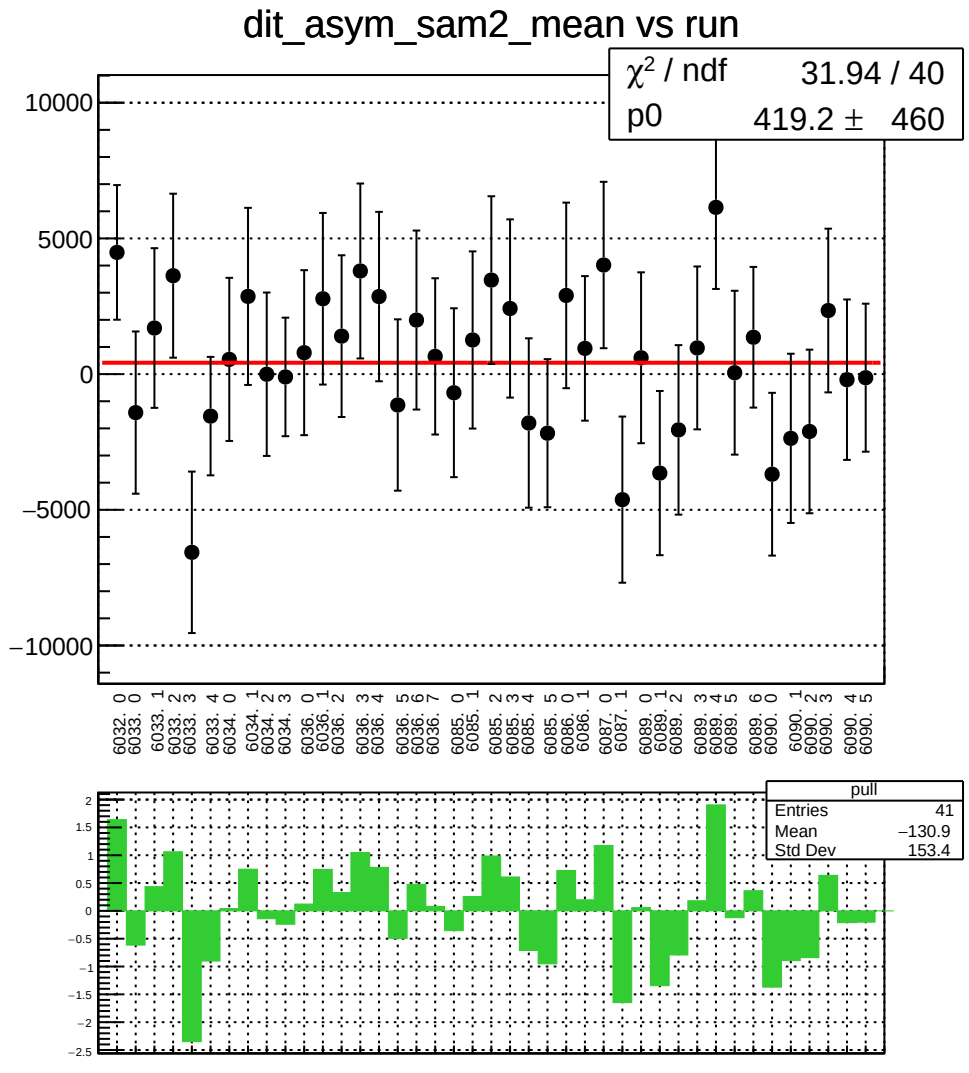

pull1D
Entries 41
Mean 0.004023
Std Dev 0.9816
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

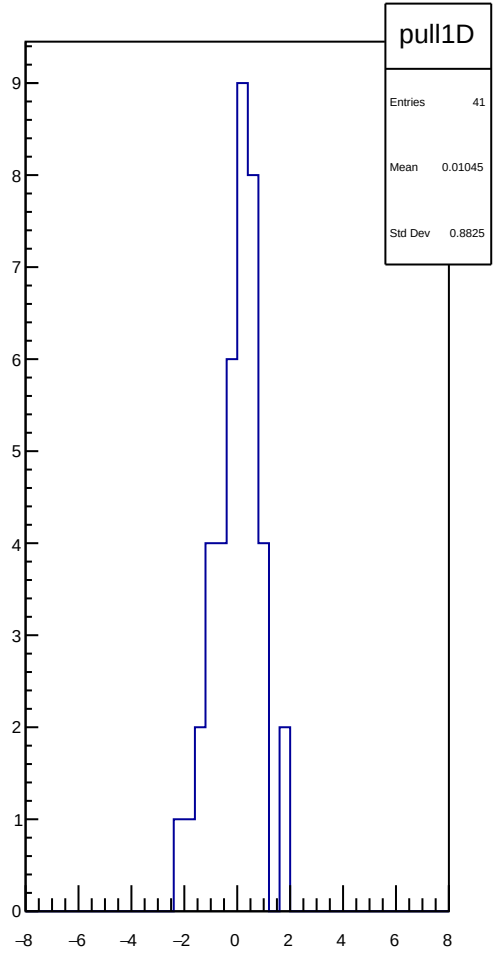

asym_sam1_correction_rms vs run
χ² / ndf 4441 / 40
p0 395.2 ± 0.4387
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

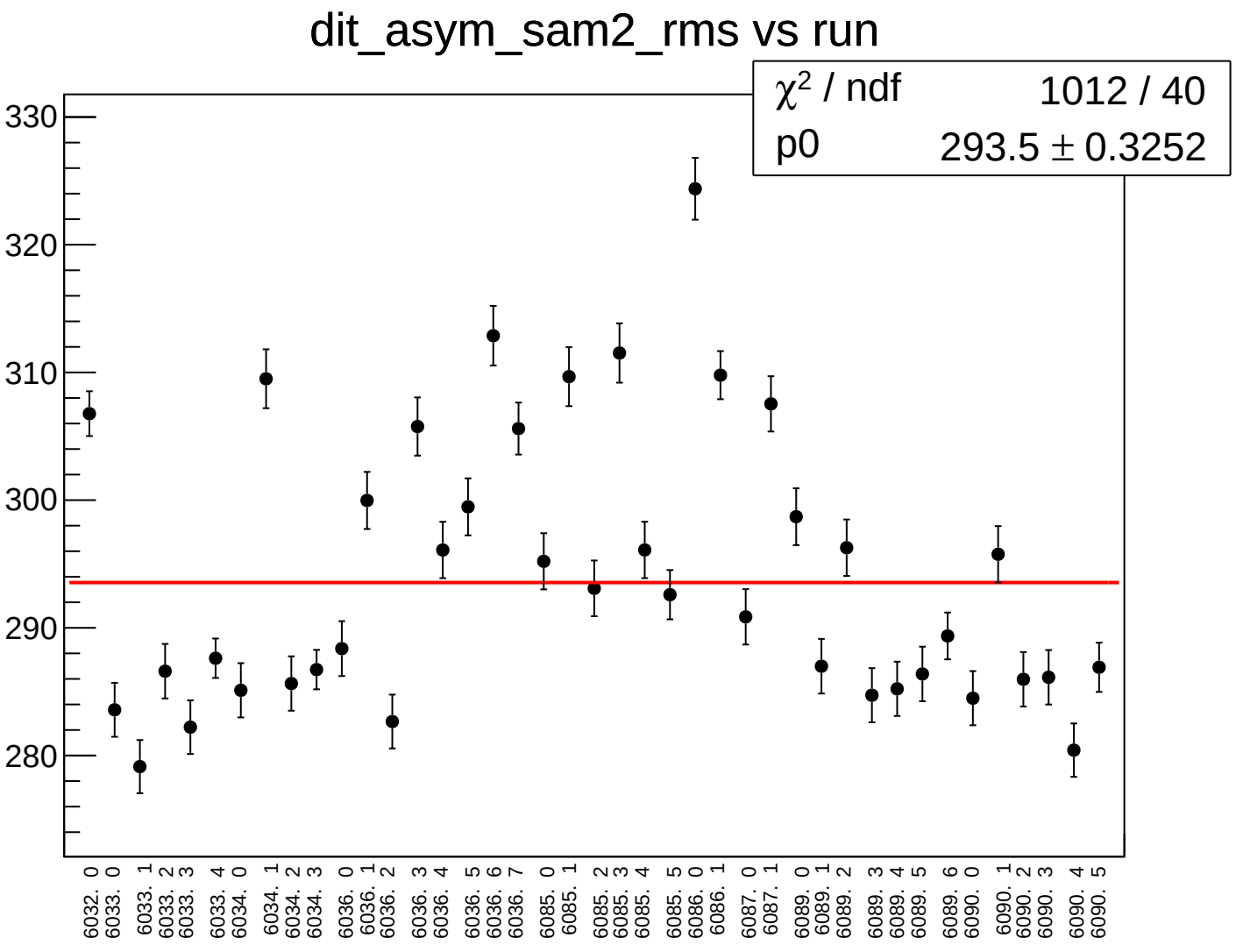

asym_sam1_mean vs run
χ² / ndf 37.2 / 40
p0 −927.7 ± 619.3
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 143.2
Std Dev 80.3
2
1
0
−1
−2

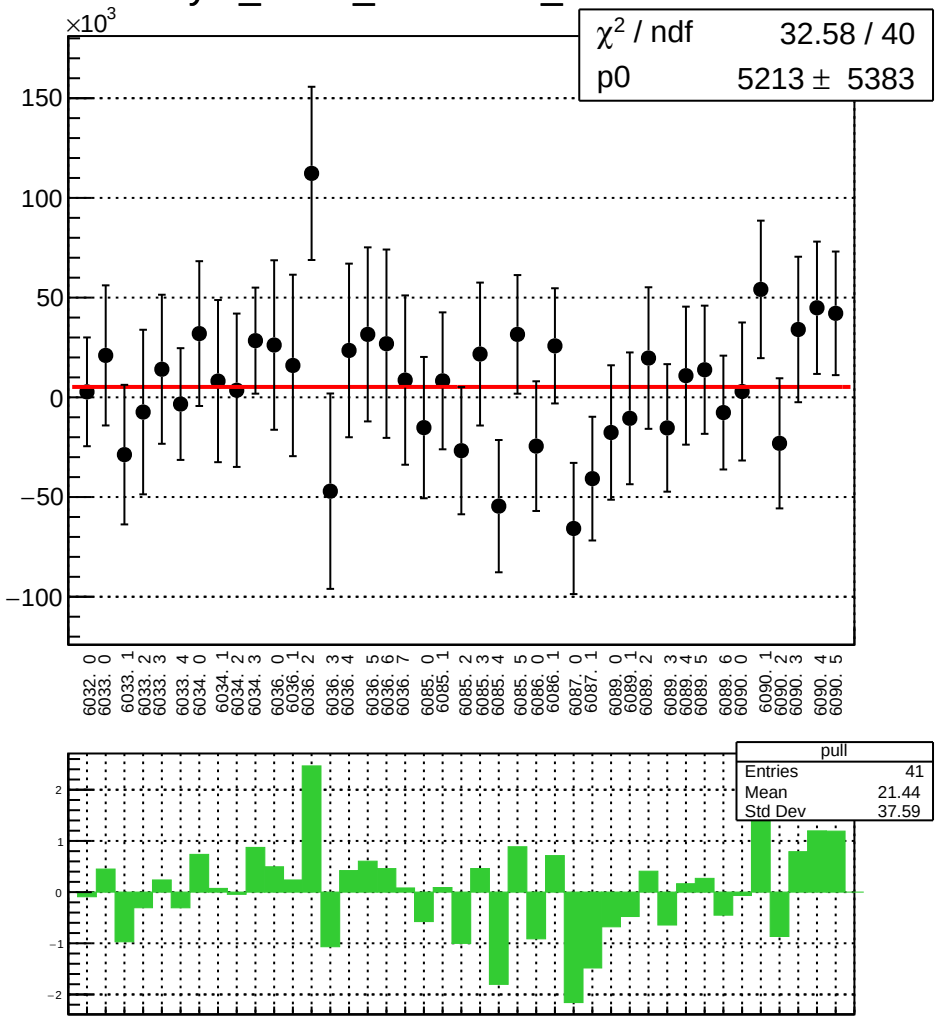

pull1D
Entries 41
Mean −0.003394
Std Dev 0.9526
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

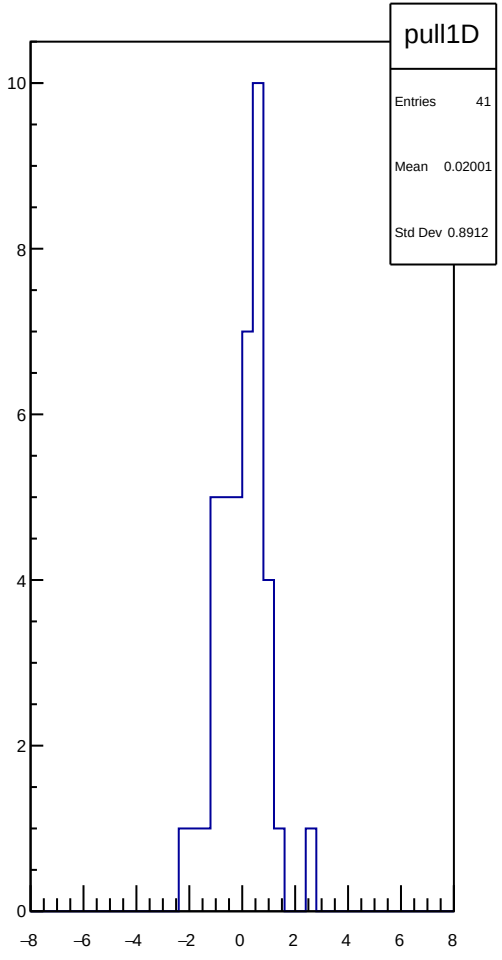

asym_sam1_rms vs run
χ² / ndf 3966 / 40
p0 394.5 ± 0.4379
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

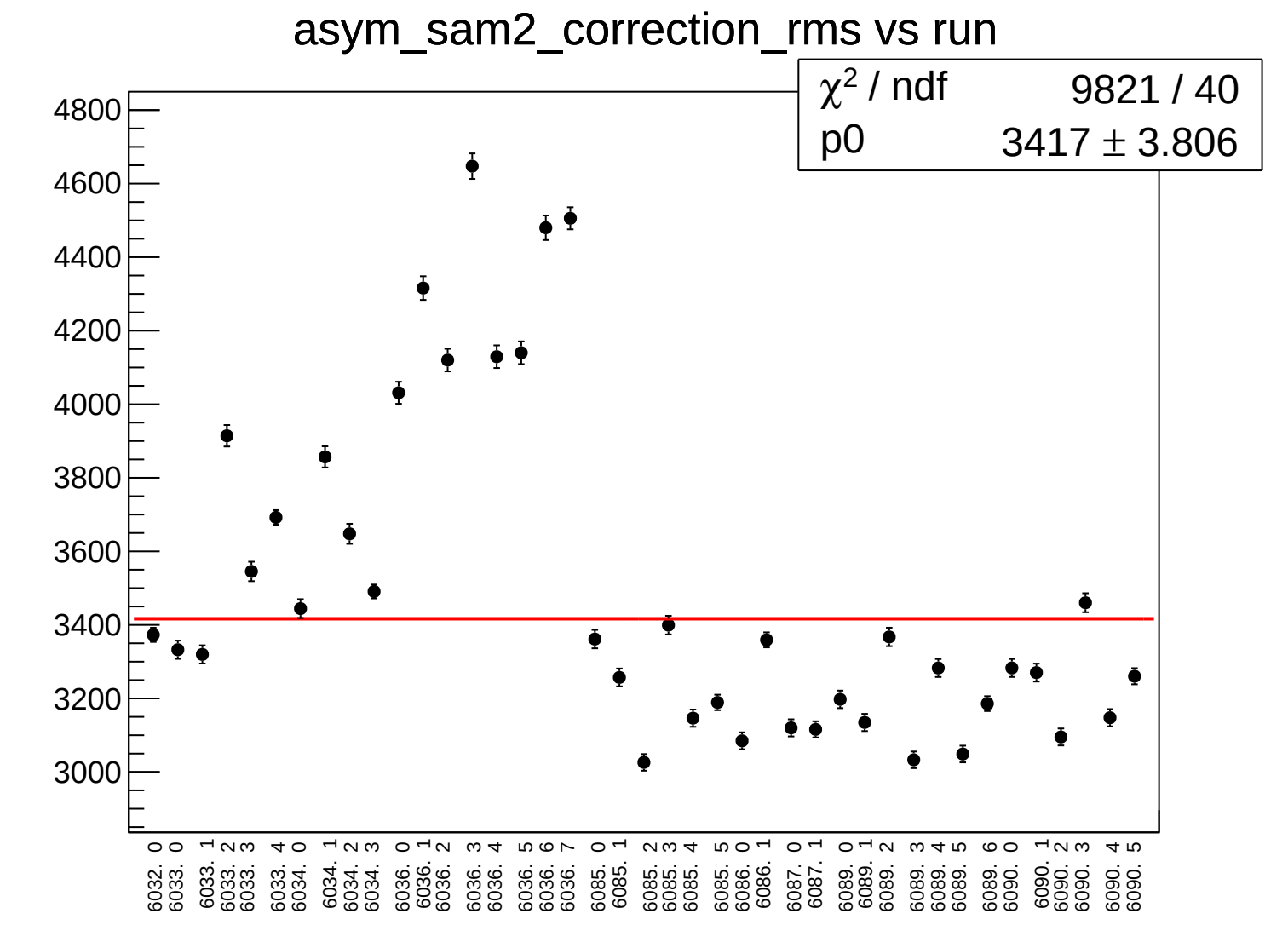

dit_asym_sam2_mean vs run
χ² / ndf 31.94 / 40
p0 419.2 ± 460
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −130.9
Std Dev 153.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

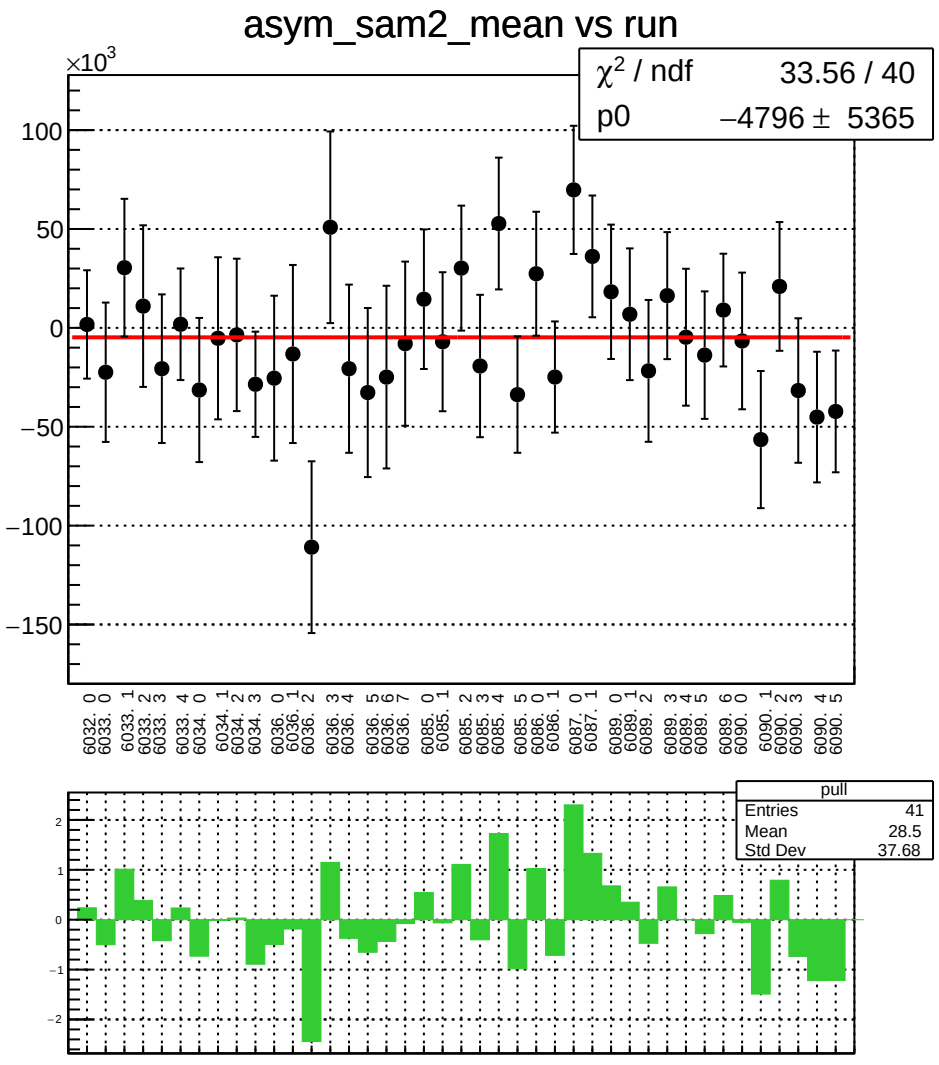

pull1D
Entries 41
Mean 0.01045
Std Dev 0.8825
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

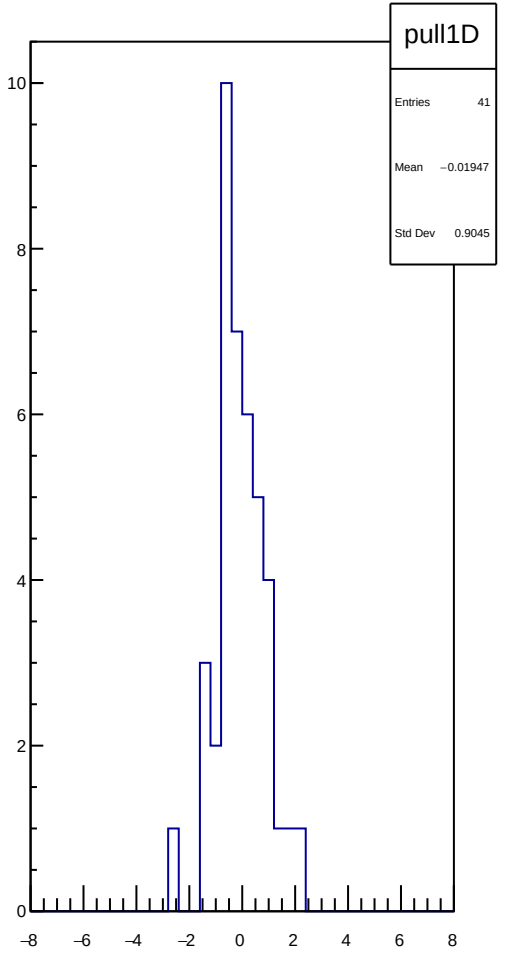

dit_asym_sam2_rms vs run
χ² / ndf 1012 / 40
p0 293.5 ± 0.3252
330
320
310
300
290
280
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

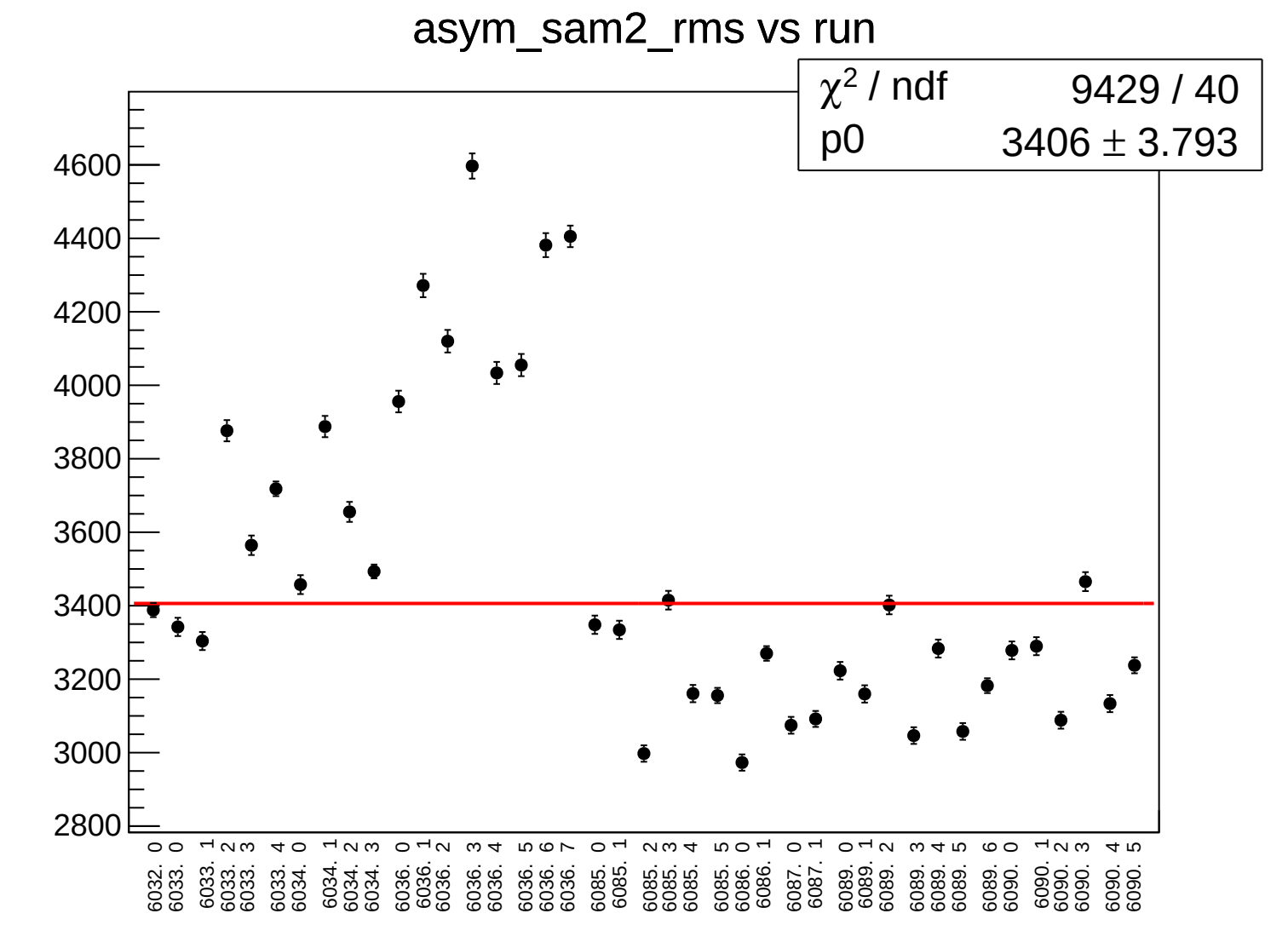

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 32.58 / 40
p0 5213 ± 5383
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 21.44
Std Dev 37.59
2
1
0
−1
−2

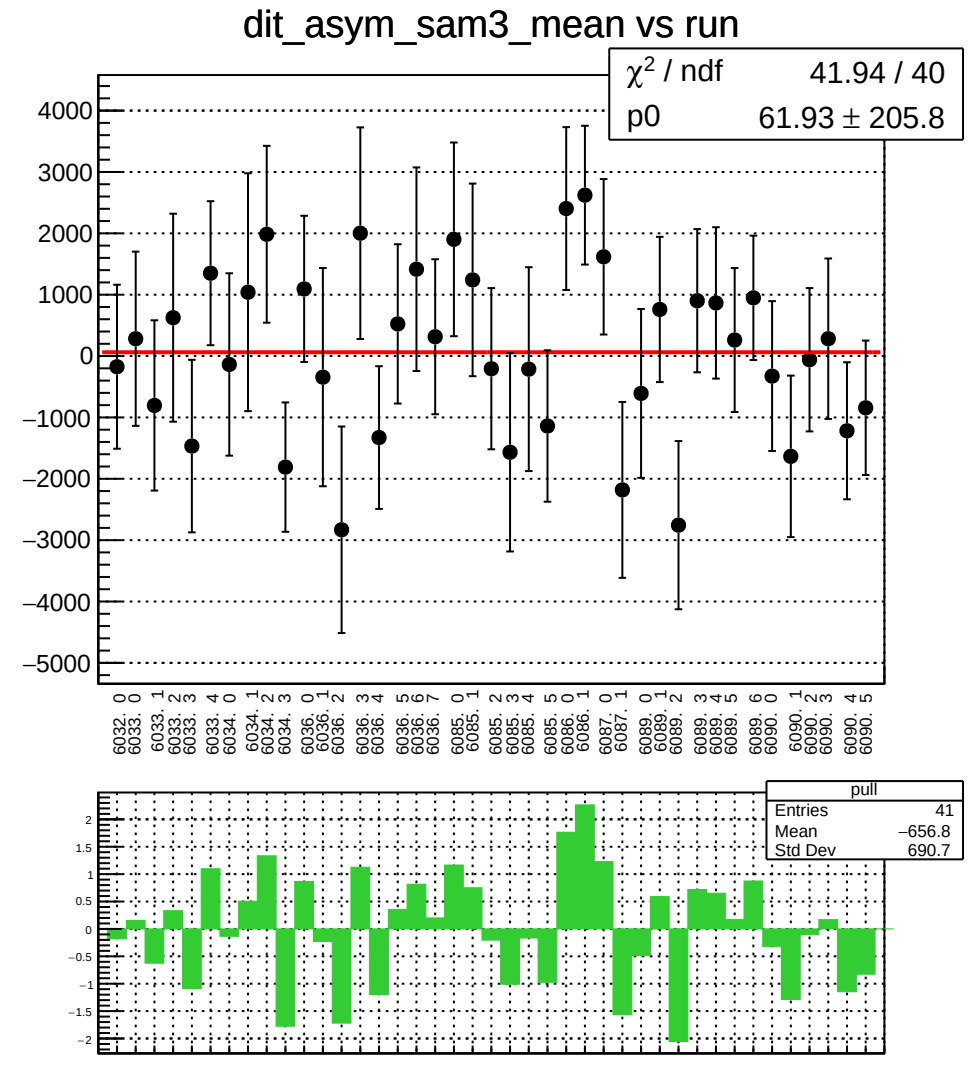

pull1D
Entries 41
Mean 0.02001
Std Dev 0.8912
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

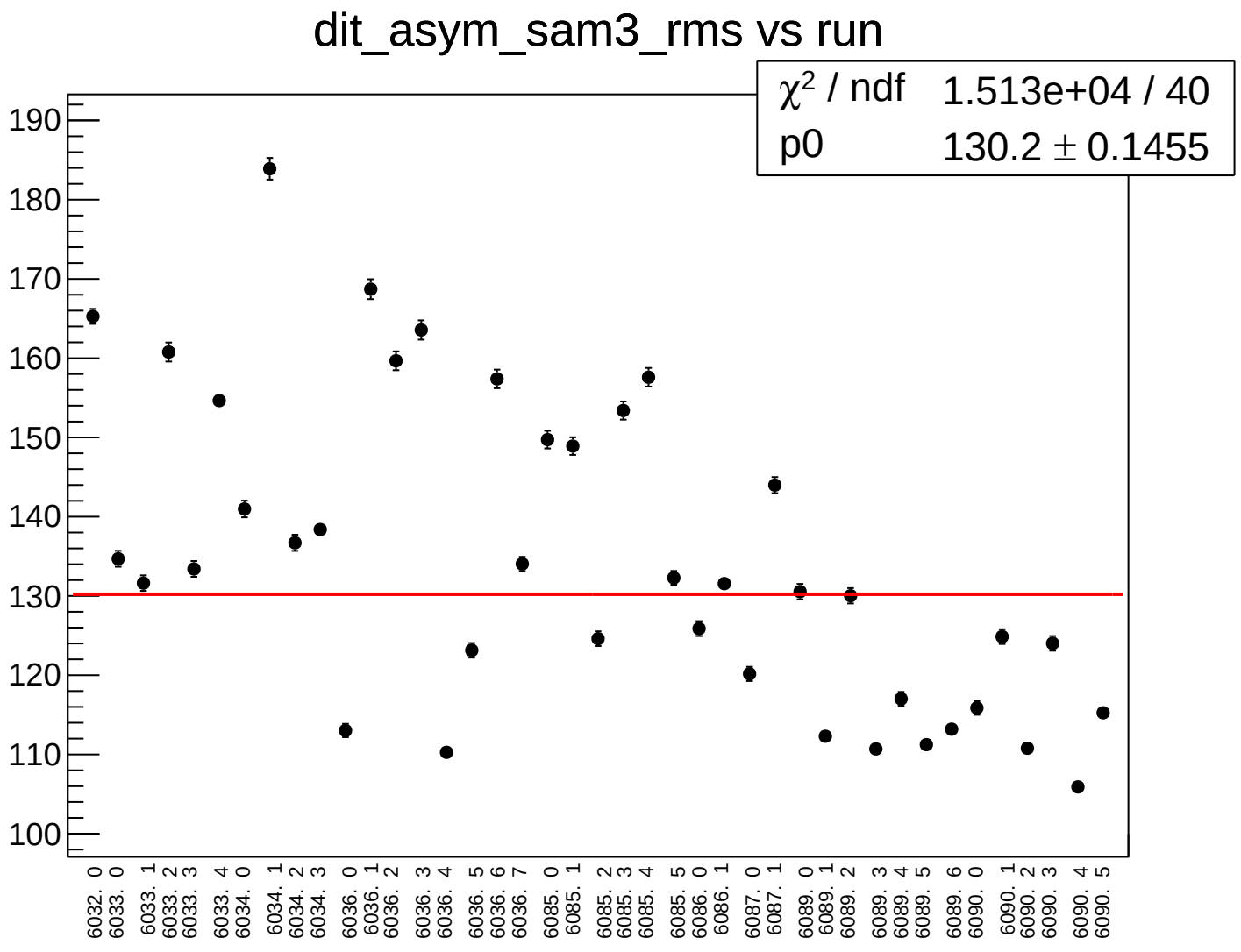

asym_sam2_correction_rms vs run
χ² / ndf 9821 / 40
p0 3417 ± 3.806
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

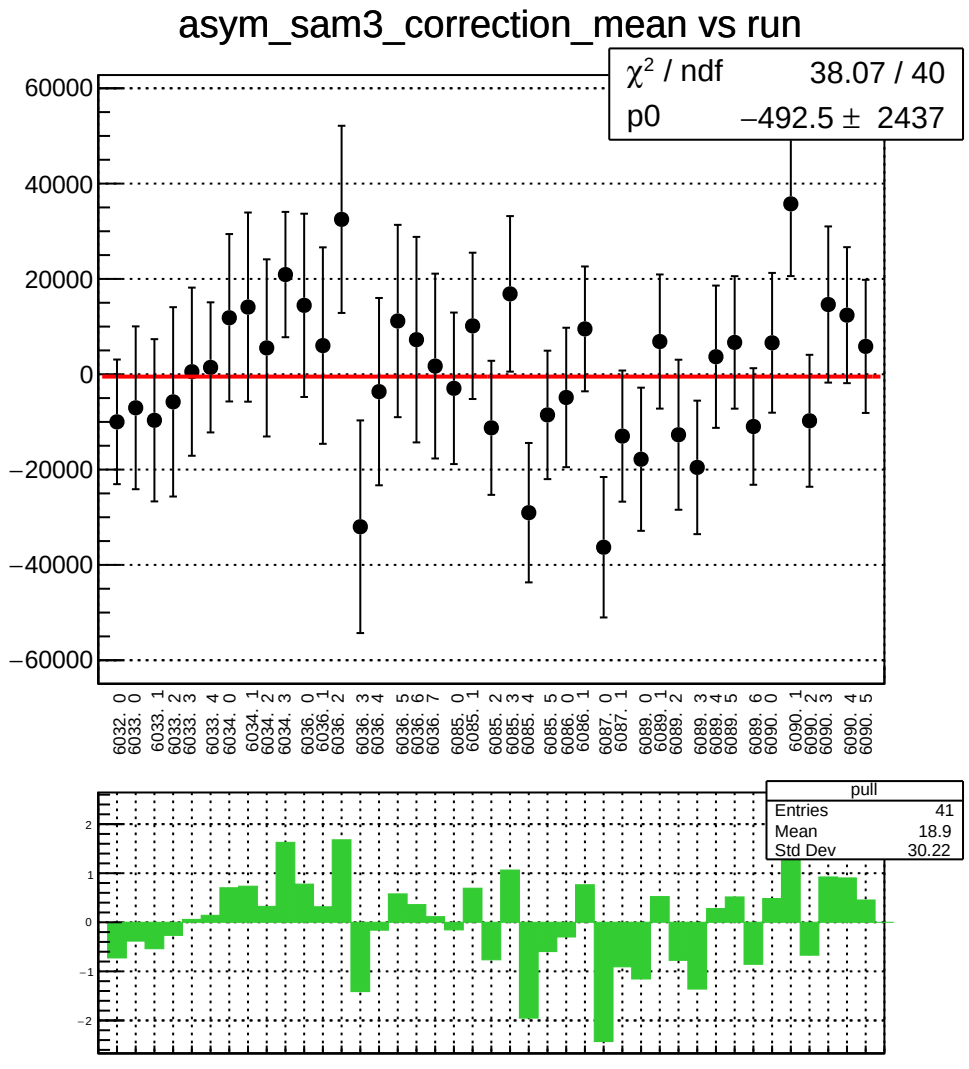

asym_sam2_mean vs run
×10^3
χ² / ndf 33.56 / 40
p0 −4796 ± 5365
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 28.5
Std Dev 37.68
2
1
0
−1
−2

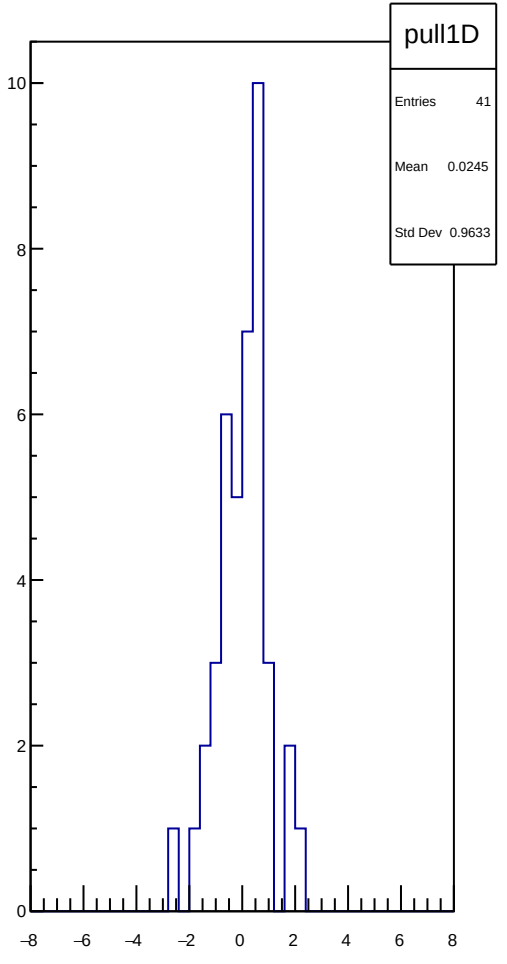

pull1D
Entries 41
Mean −0.01947
Std Dev 0.9045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

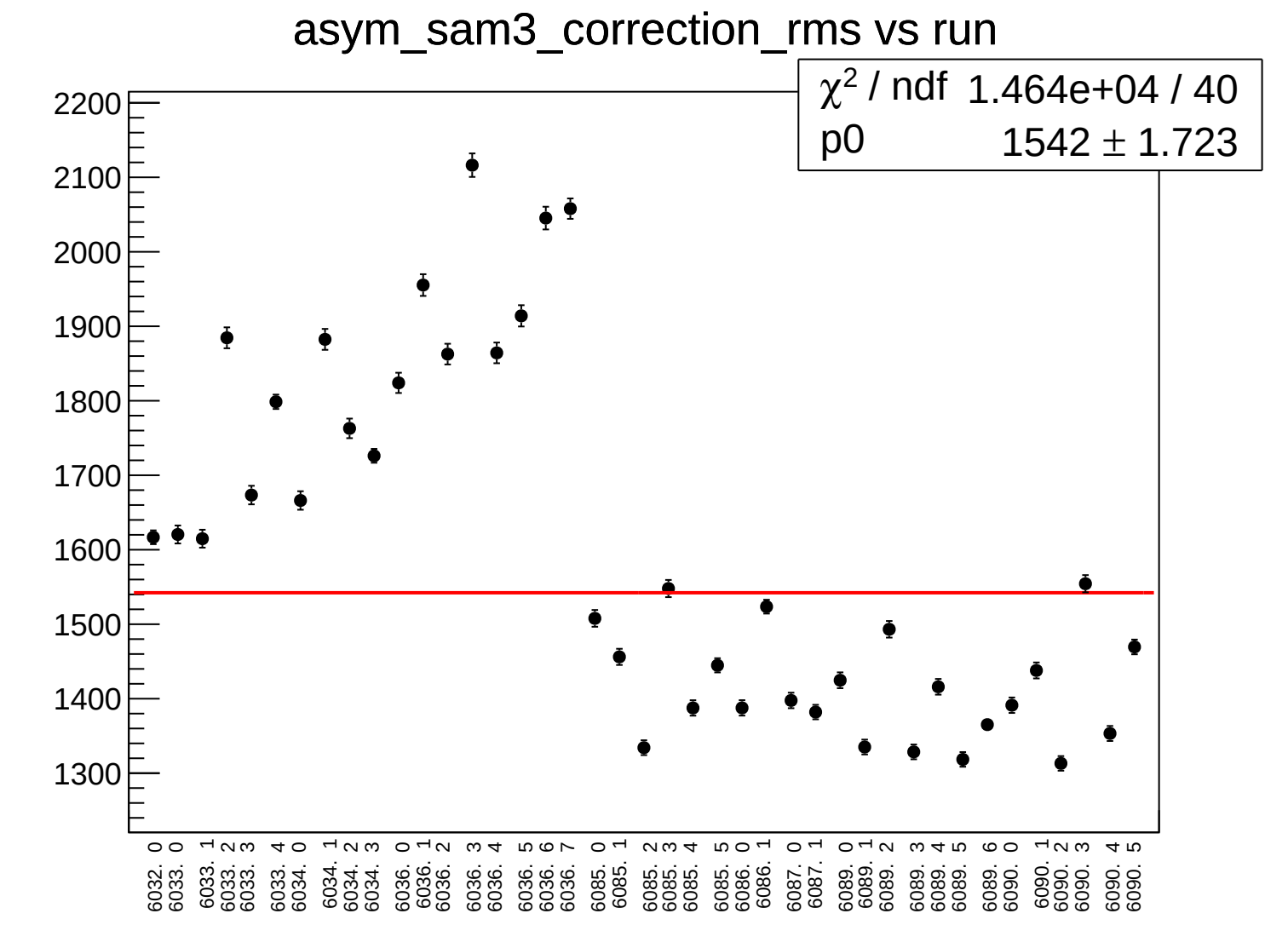

asym_sam2_rms vs run
χ² / ndf 9429 / 40
p0 3406 ± 3.793
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

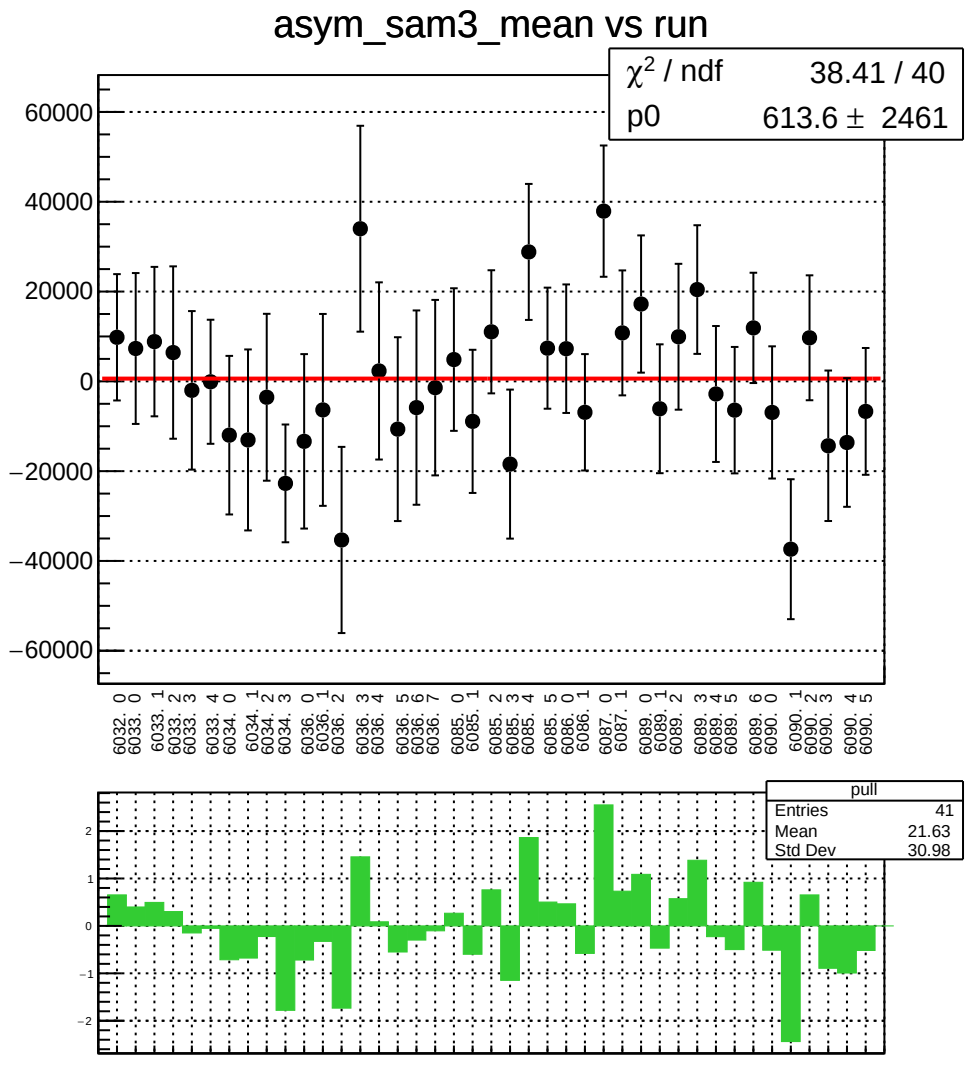

dit_asym_sam3_mean vs run
χ^2 / ndf 41.94 / 40
p0 61.93 ± 205.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −656.8
Std Dev 690.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.00134
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

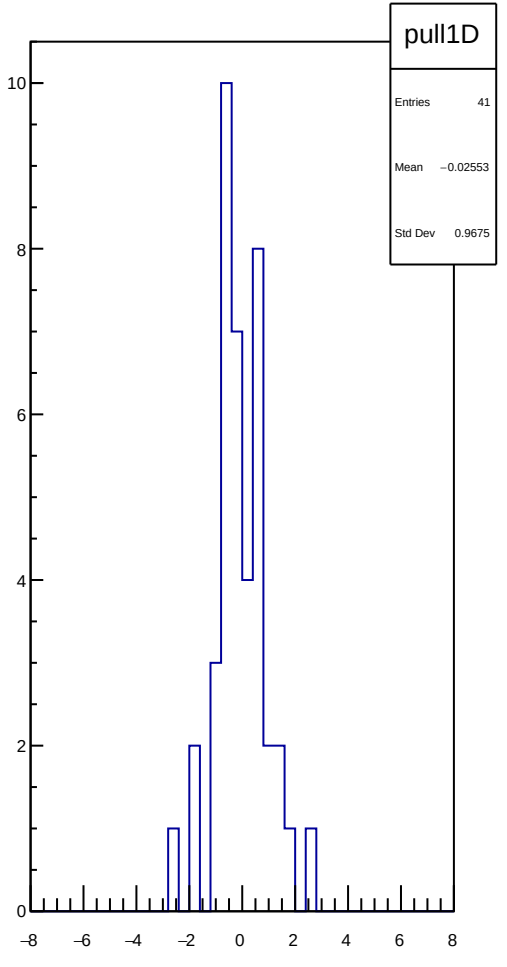

dit_asym_sam3_rms vs run
χ² / ndf 1.513e+04 / 40
p0 130.2 ± 0.1455
190
180
170
160
150
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

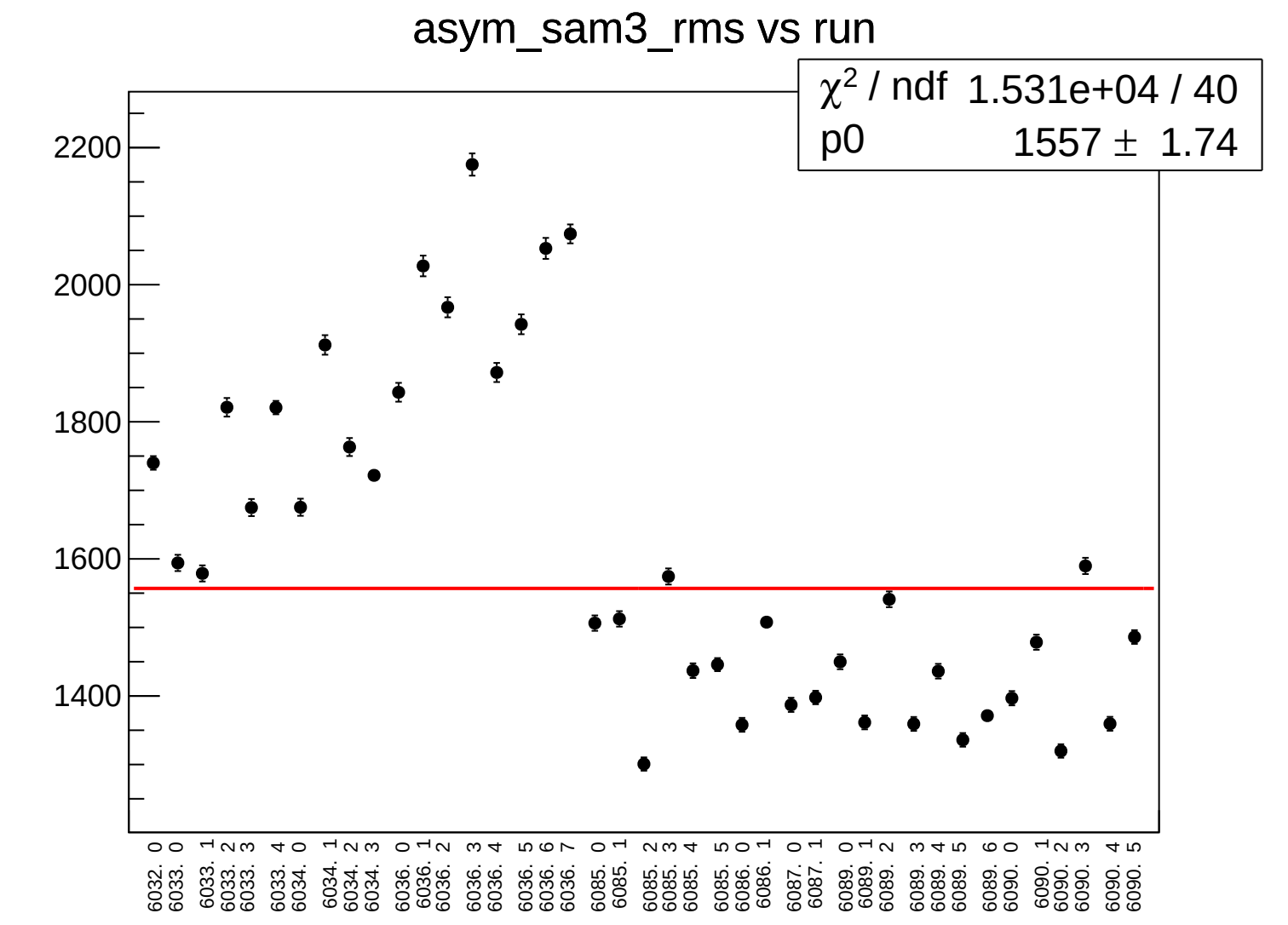

asym_sam3_correction_mean vs run
χ² / ndf 38.07 / 40
p0 −492.5 ± 2437
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 18.9
Std Dev 30.22
2
1
0
−1
−2

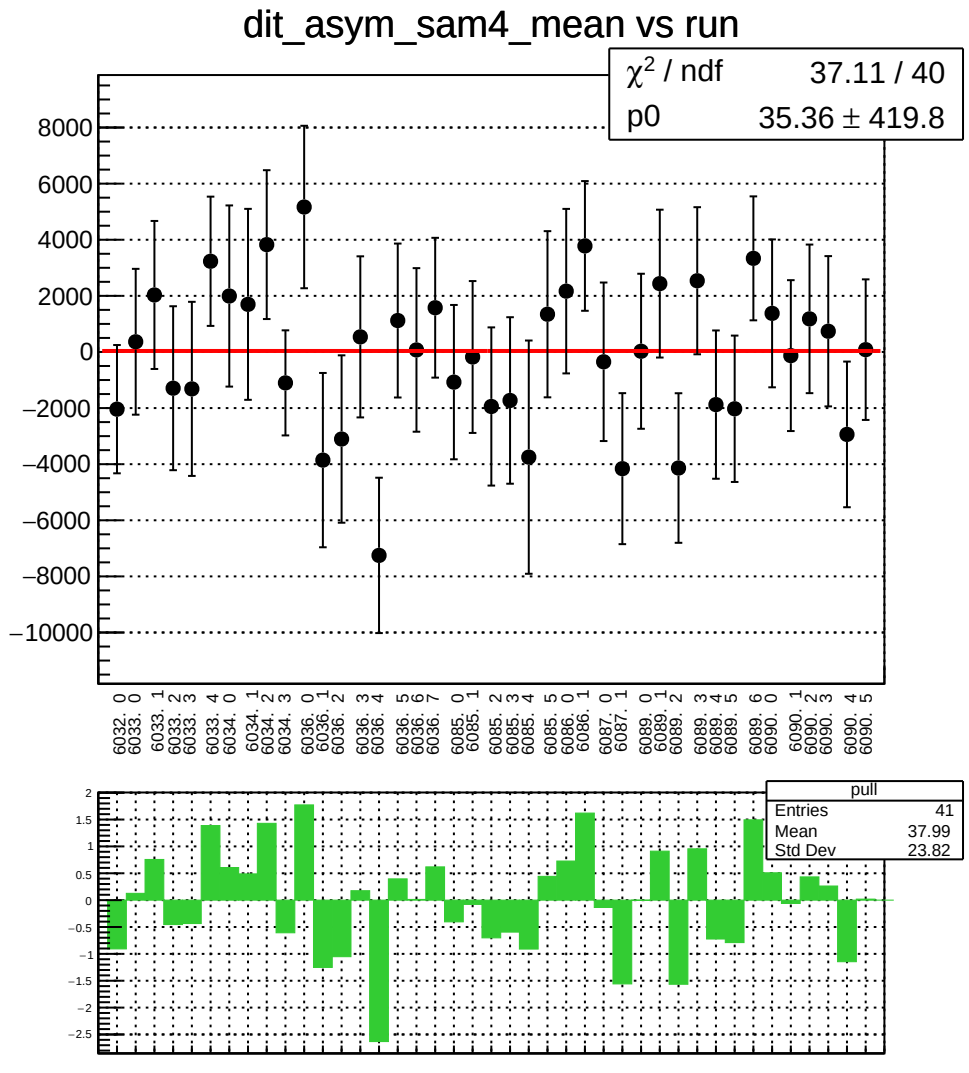

pull1D
Entries 41
Mean 0.0245
Std Dev 0.9633
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

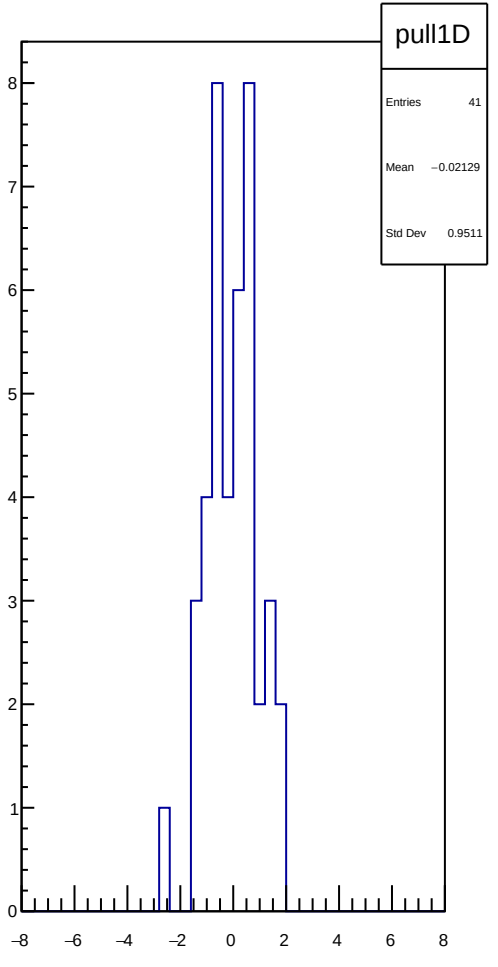

asym_sam3_correction_rms vs run
χ² / ndf 1.464e+04 / 40
p0 1542 ± 1.723
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

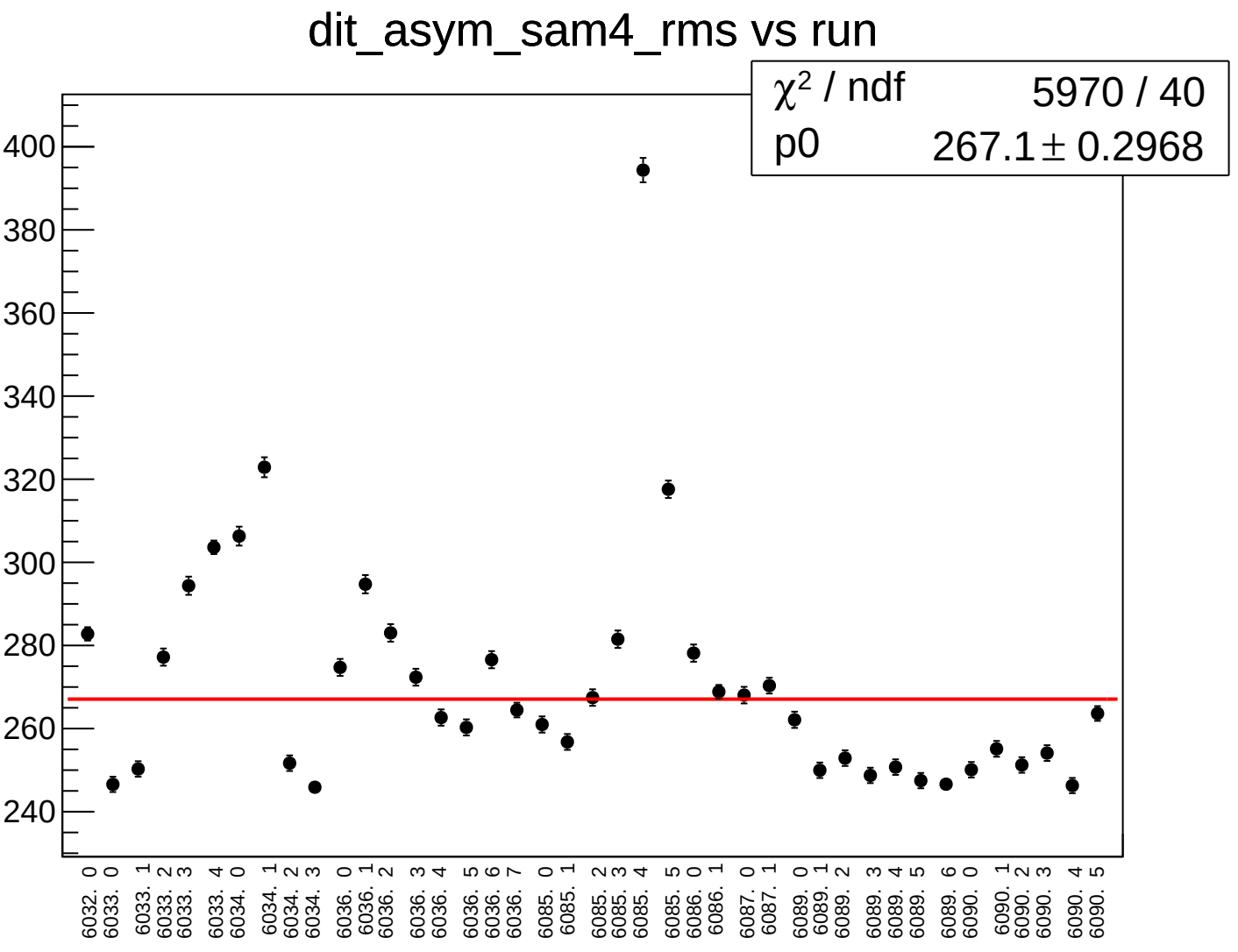

asym_sam3_mean vs run
χ² / ndf 38.41 / 40
p0 613.6 ± 2461
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 21.63
Std Dev 30.98
2
1
0
−1
−2

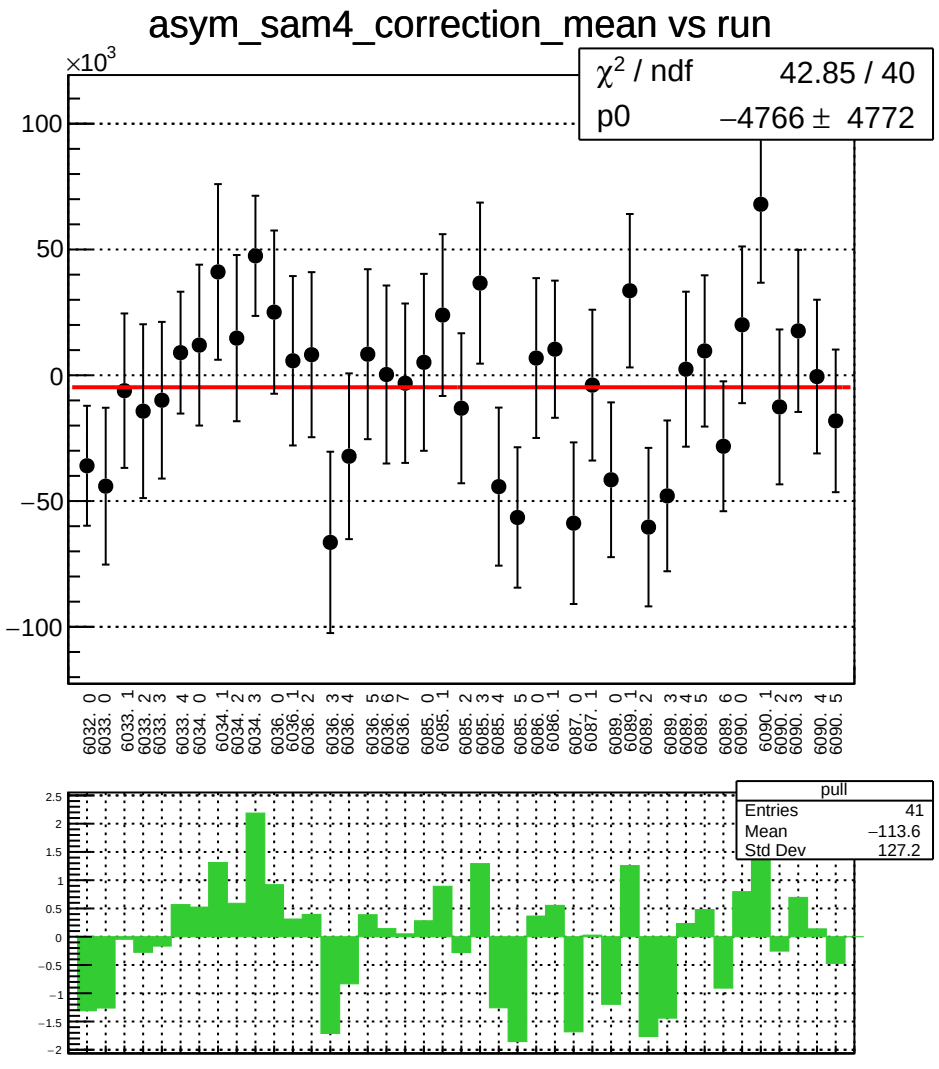

pull1D
Entries 41
Mean −0.02553
Std Dev 0.9675
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

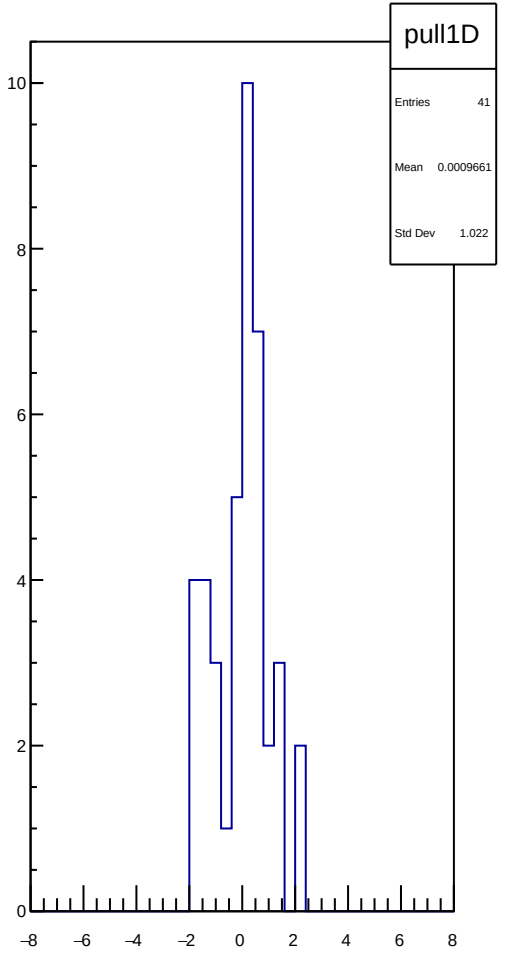

asym_sam3_rms vs run
χ² / ndf 1.531e+04 / 40
p0 1557 ± 1.74
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

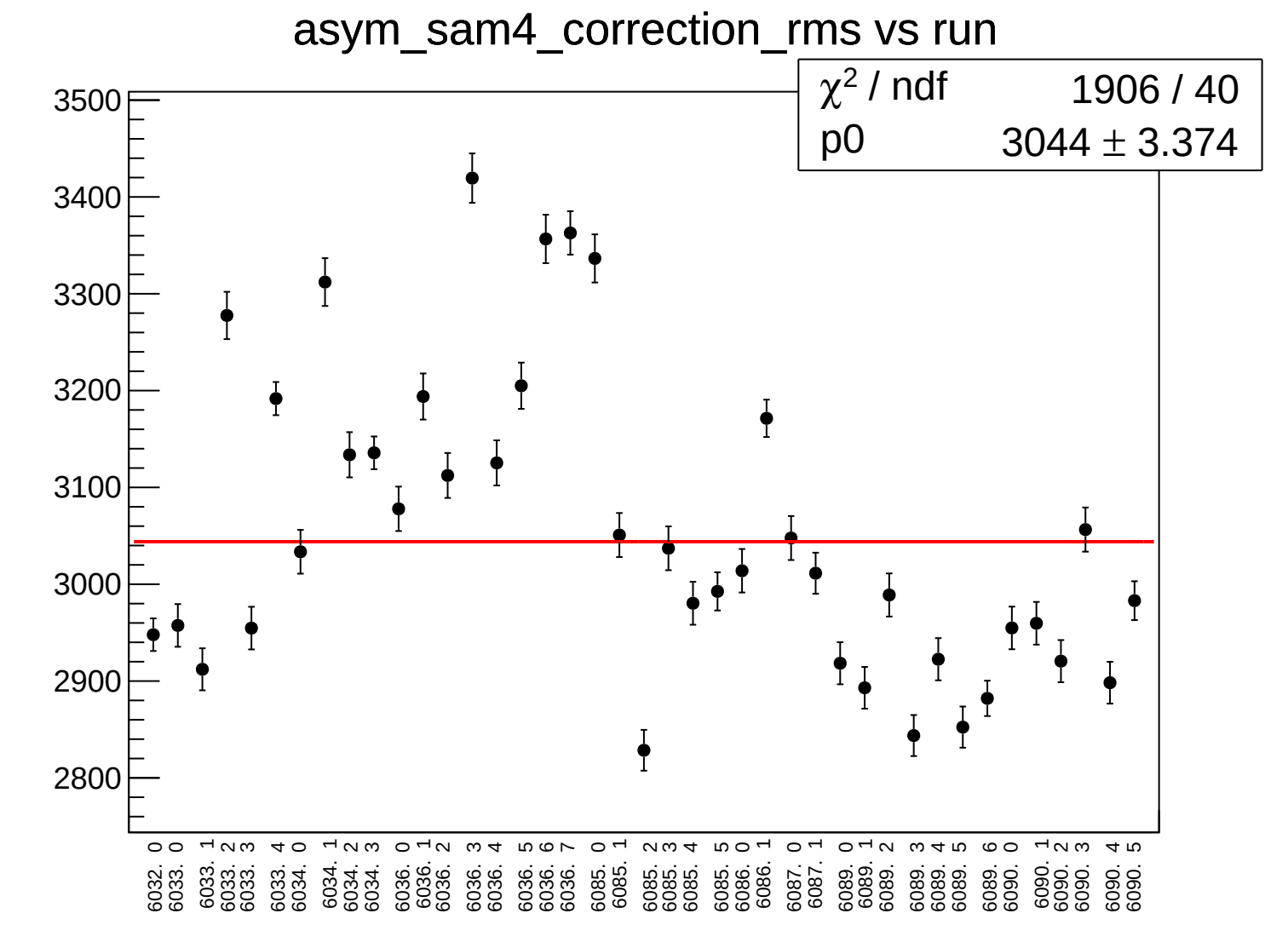

dit_asym_sam4_mean vs run
χ² / ndf 37.11 / 40
p0 35.36 ± 419.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 37.99
Std Dev 23.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

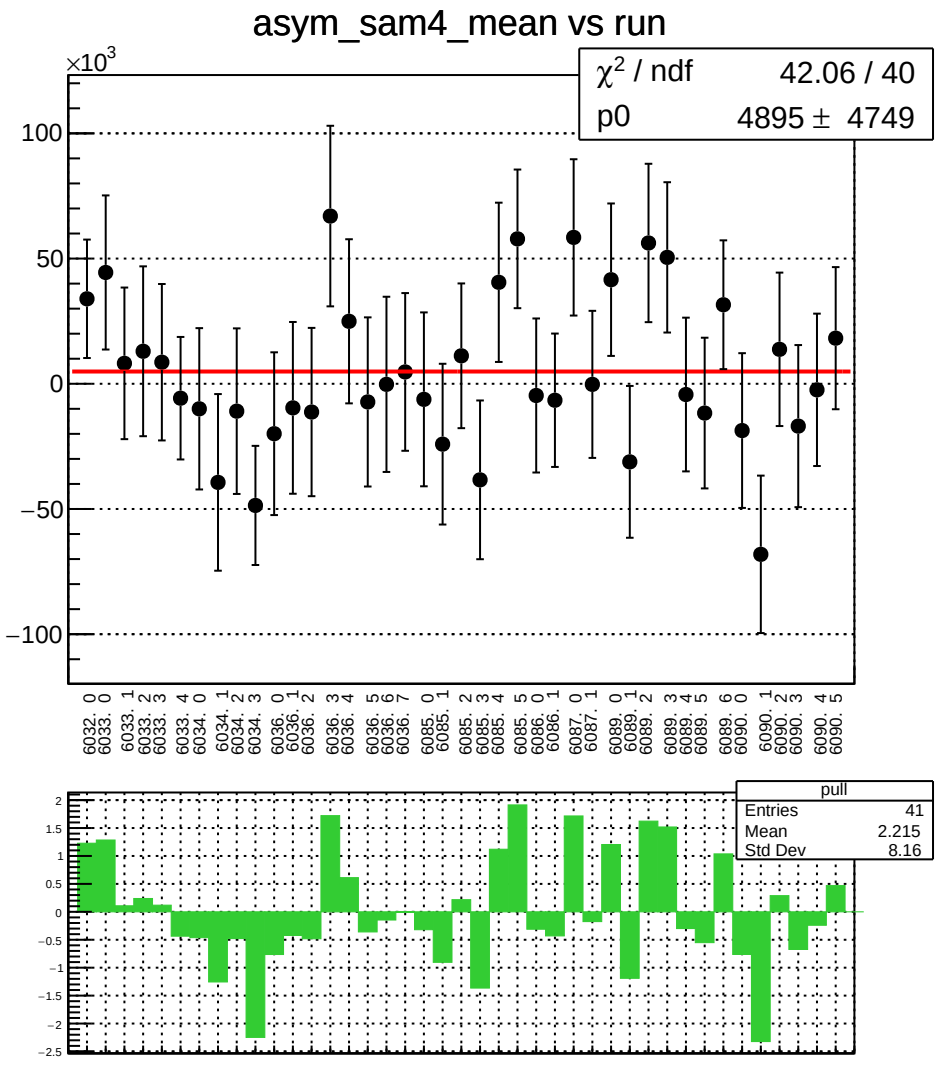

pull1D
Entries 41
Mean −0.02129
Std Dev 0.9511
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

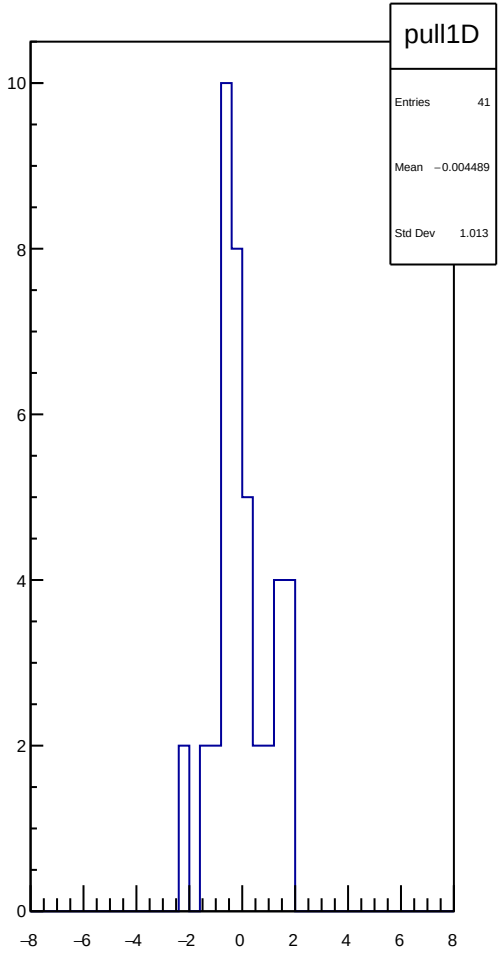

dit_asym_sam4_rms vs run
χ² / ndf 5970 / 40
p0 267.1 ± 0.2968
400
380
360
340
320
300
280
260
240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

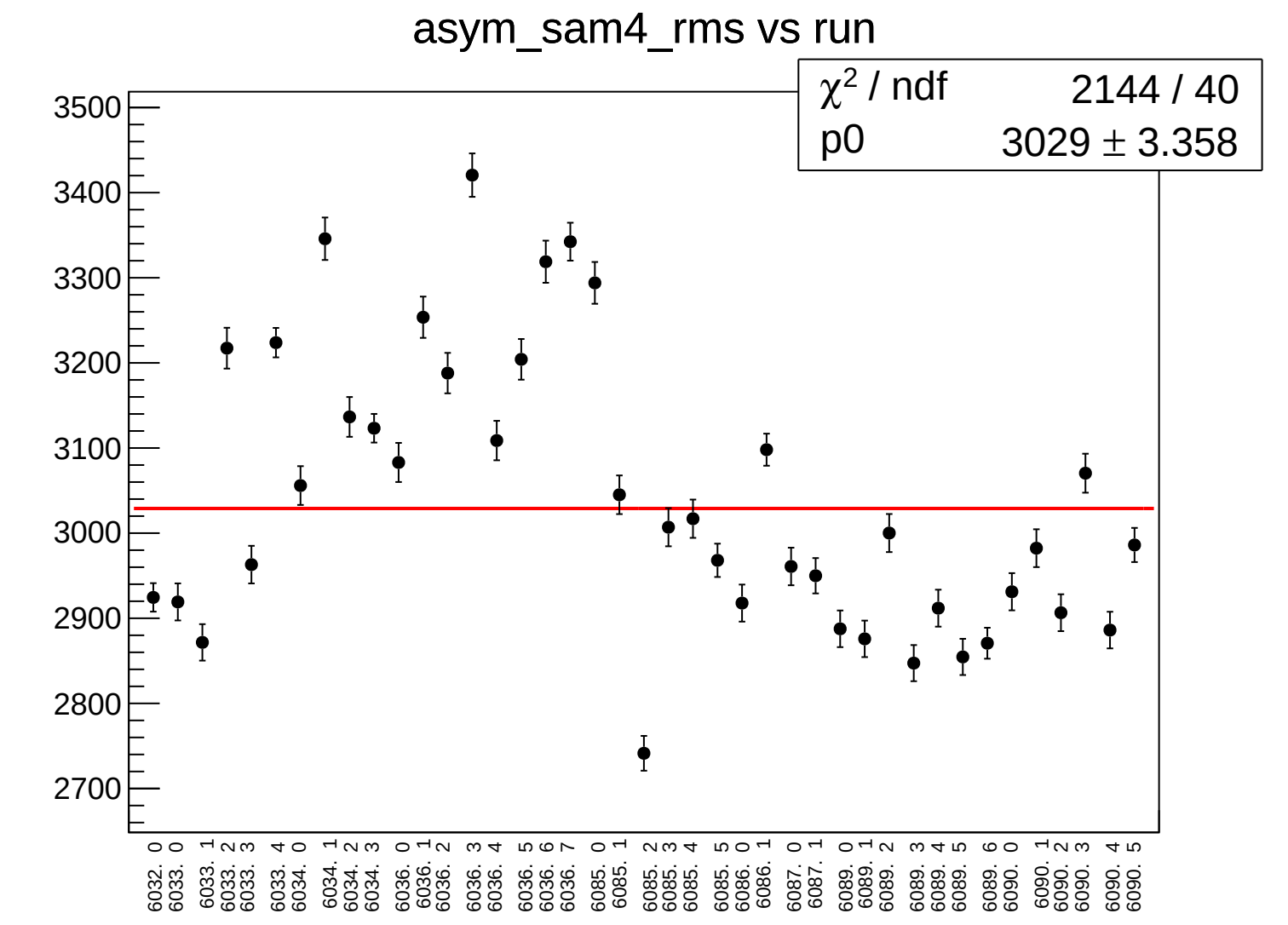

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 42.85 / 40
p0 −4766 ± 4772
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −113.6
Std Dev 127.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

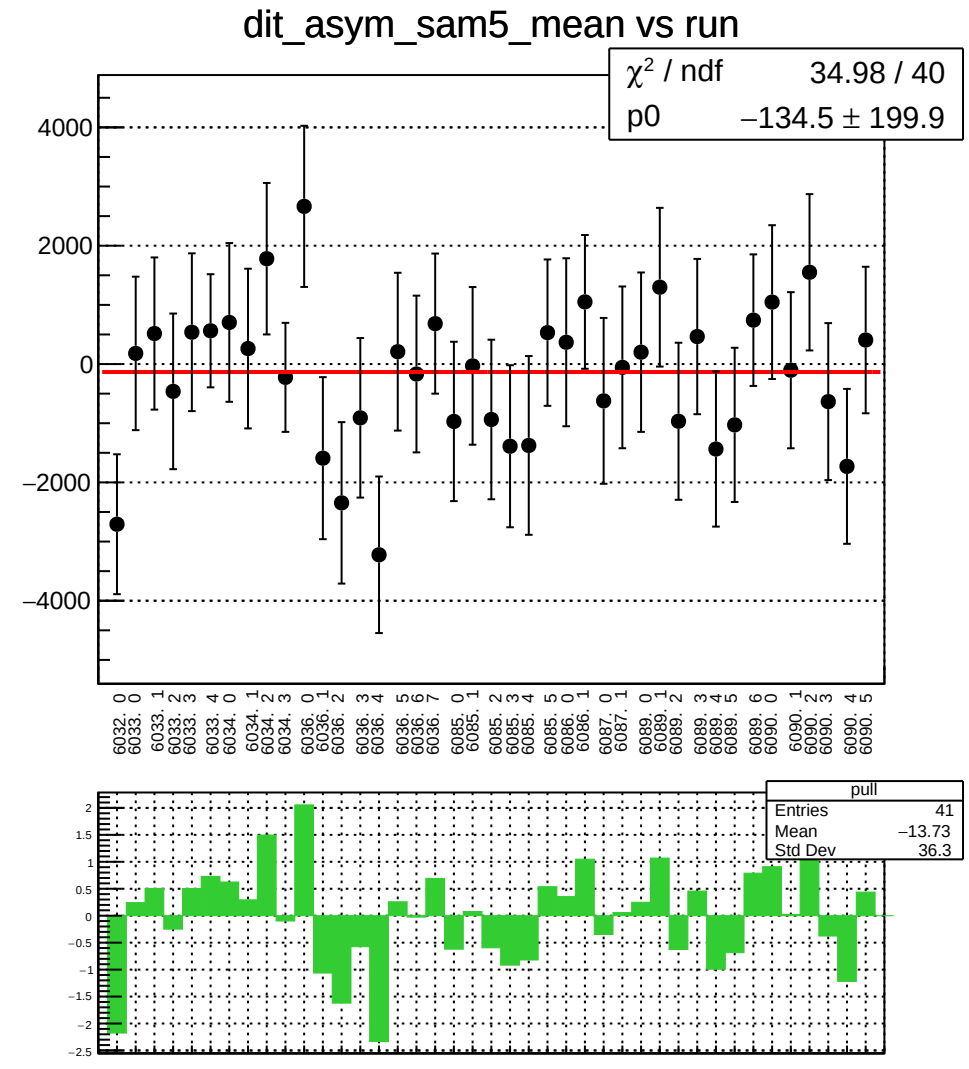

pull1D
Entries 41
Mean 0.0009661
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

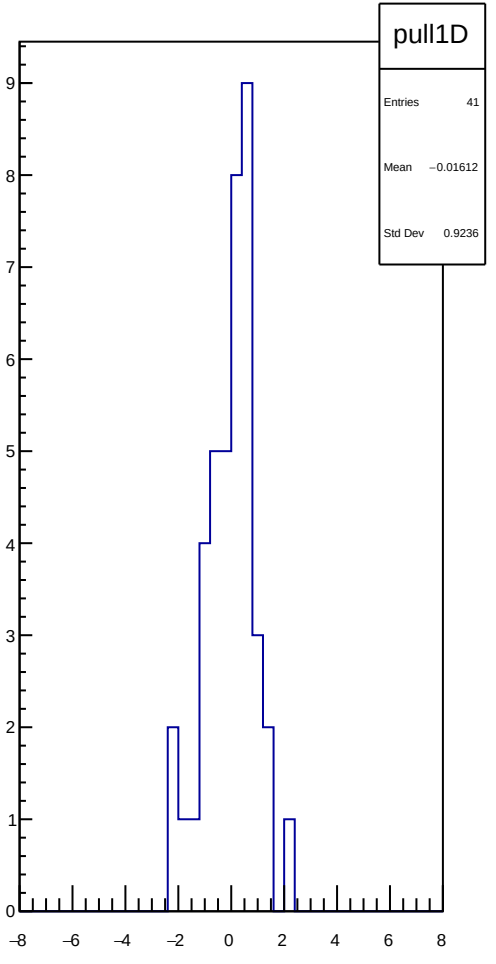

asym_sam4_correction_rms vs run
χ² / ndf 1906 / 40
p0 3044 ± 3.374
3500
3400
3300
3200
3100
3000
2900
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

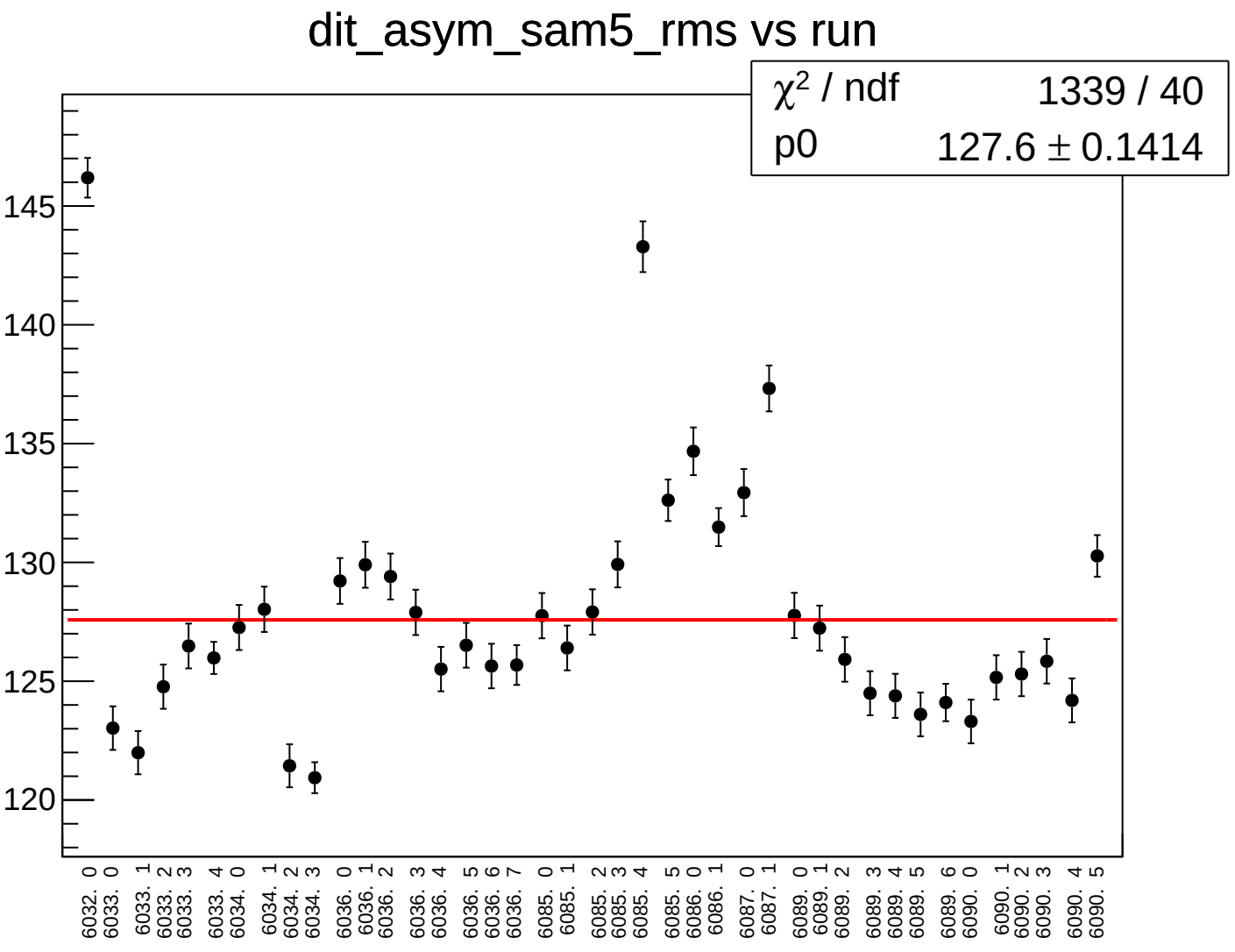

asym_sam4_mean vs run
×10^3
χ² / ndf 42.06 / 40
p0 4895 ± 4749
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 2.215
Std Dev 8.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

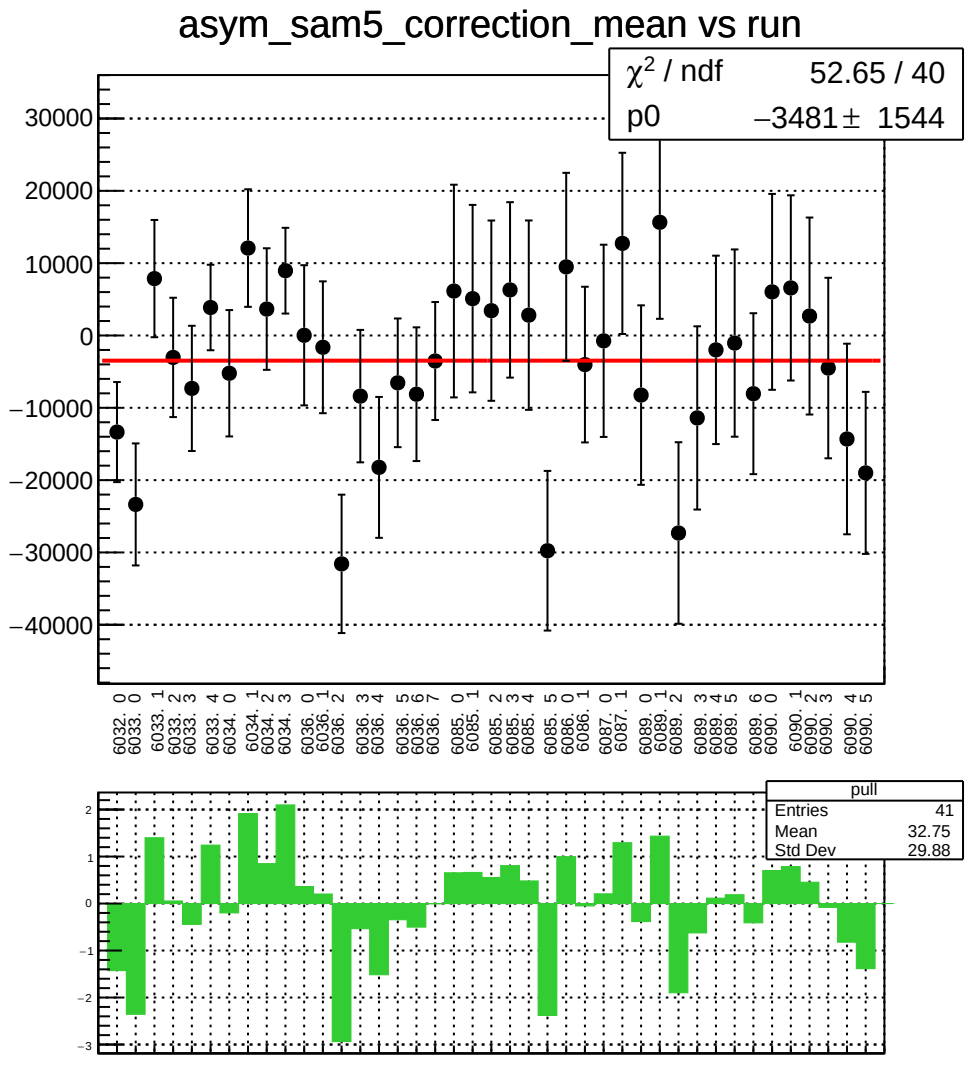

pull1D
Entries 41
Mean −0.004489
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

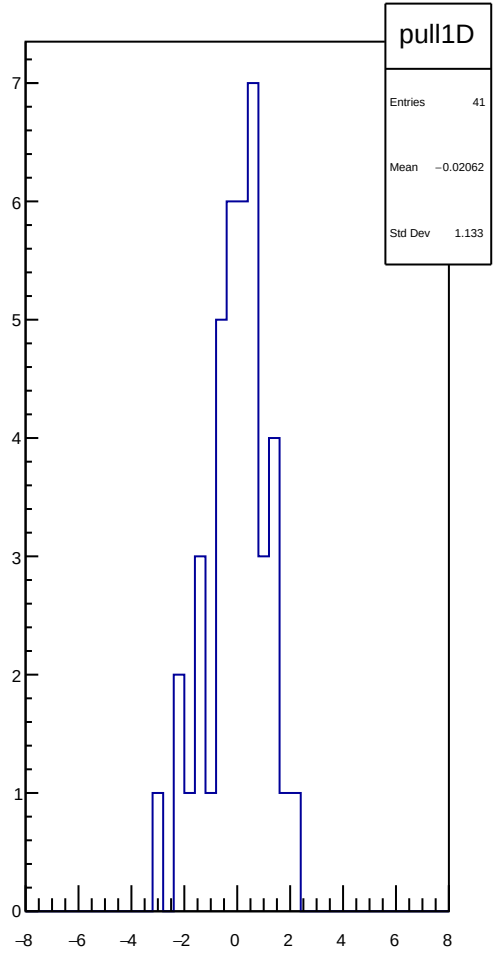

asym_sam4_rms vs run
χ² / ndf 2144 / 40
p0 3029 ± 3.358
3500
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

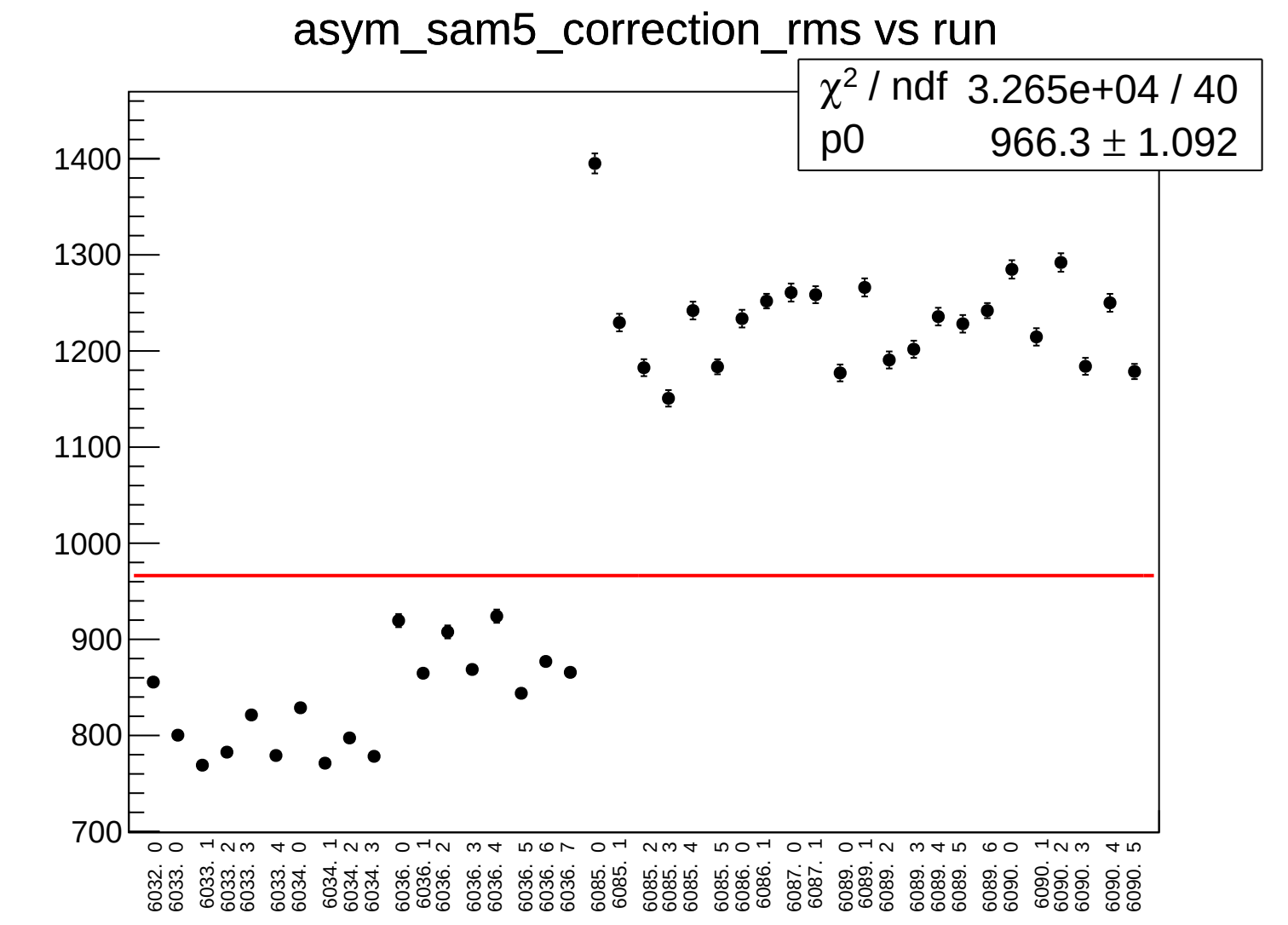

dit_asym_sam5_mean vs run
χ² / ndf 34.98 / 40
p0 −134.5 ± 199.9
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −13.73
Std Dev 36.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

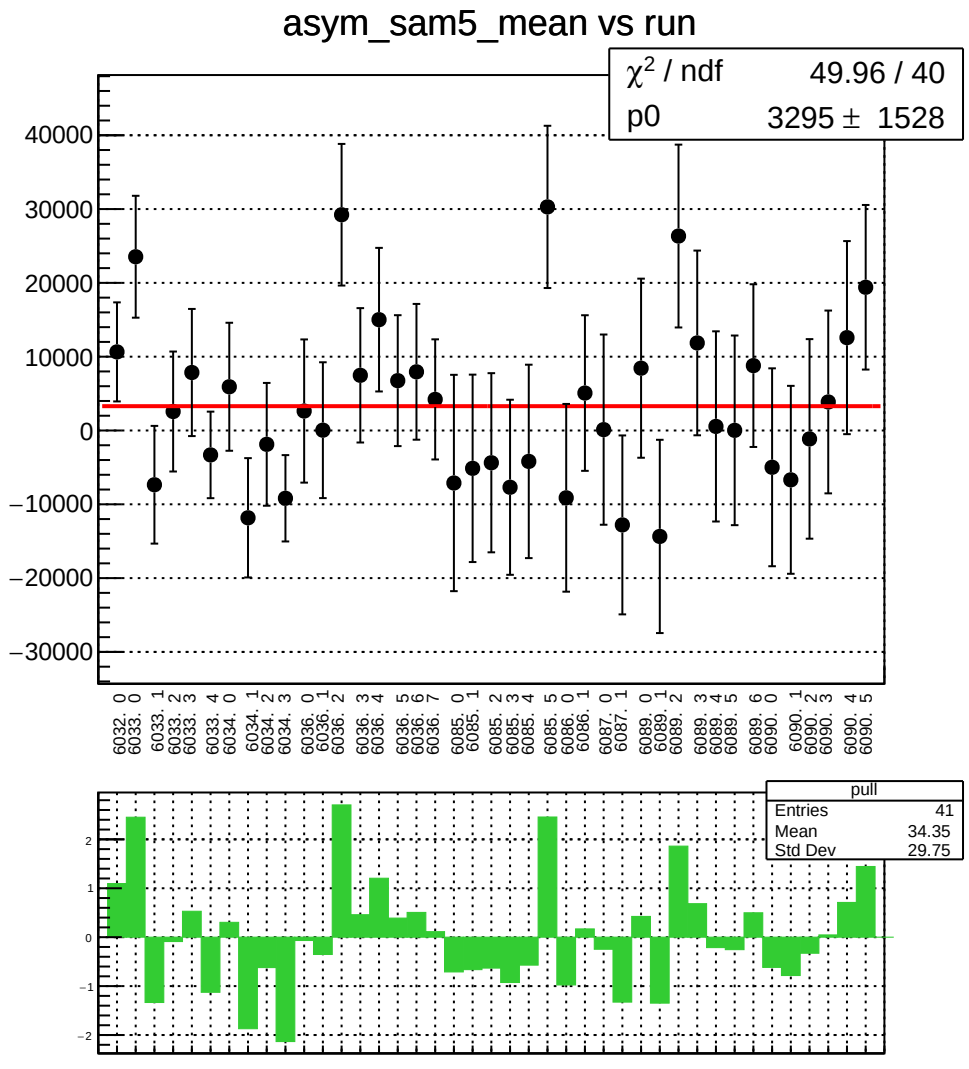

pull1D
Entries 41
Mean −0.01612
Std Dev 0.9236
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

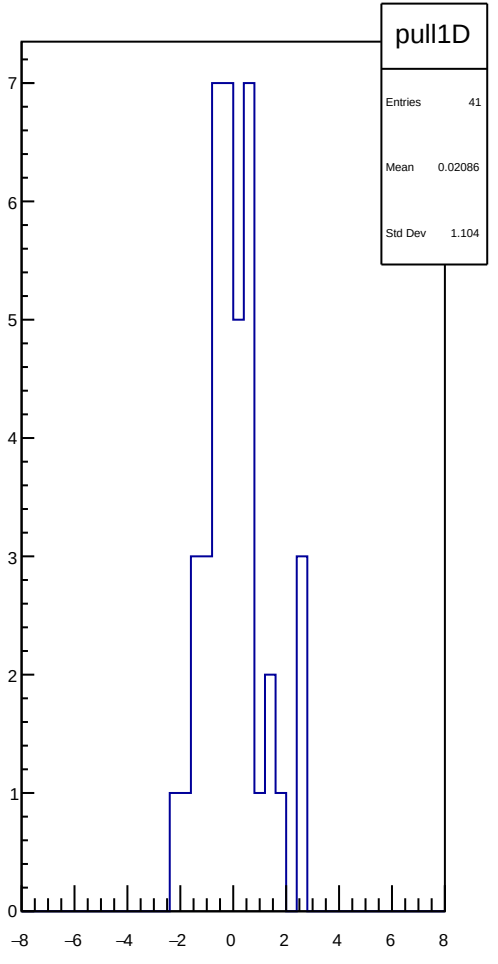

dit_asym_sam5_rms vs run
χ² / ndf 1339 / 40
p0 127.6 ± 0.1414
145
140
135
130
125
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

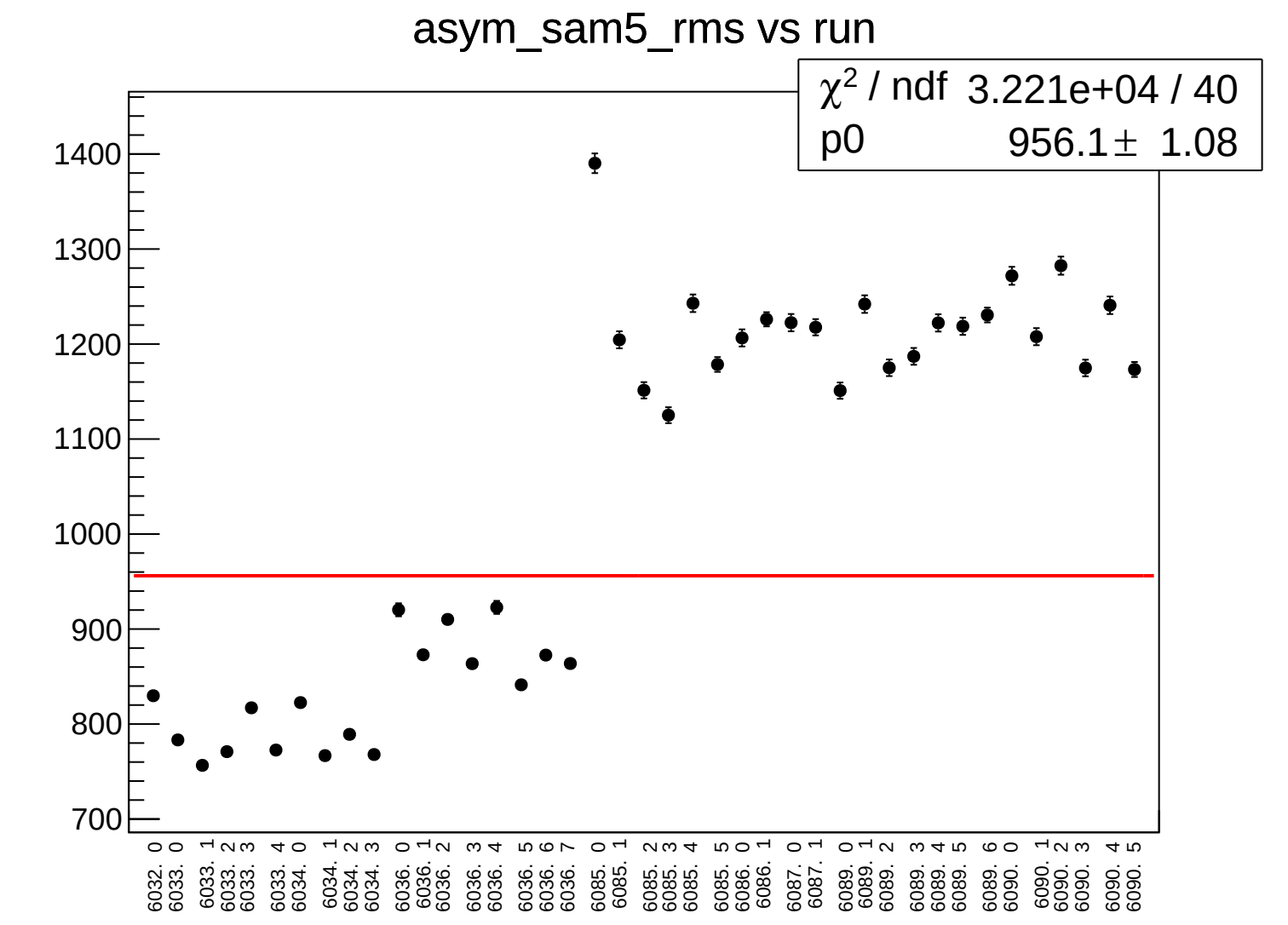

asym_sam5_correction_mean vs run
χ² / ndf 52.65 / 40
p0 −3481 ± 1544
pull
Entries 41
Mean 32.75
Std Dev 29.88

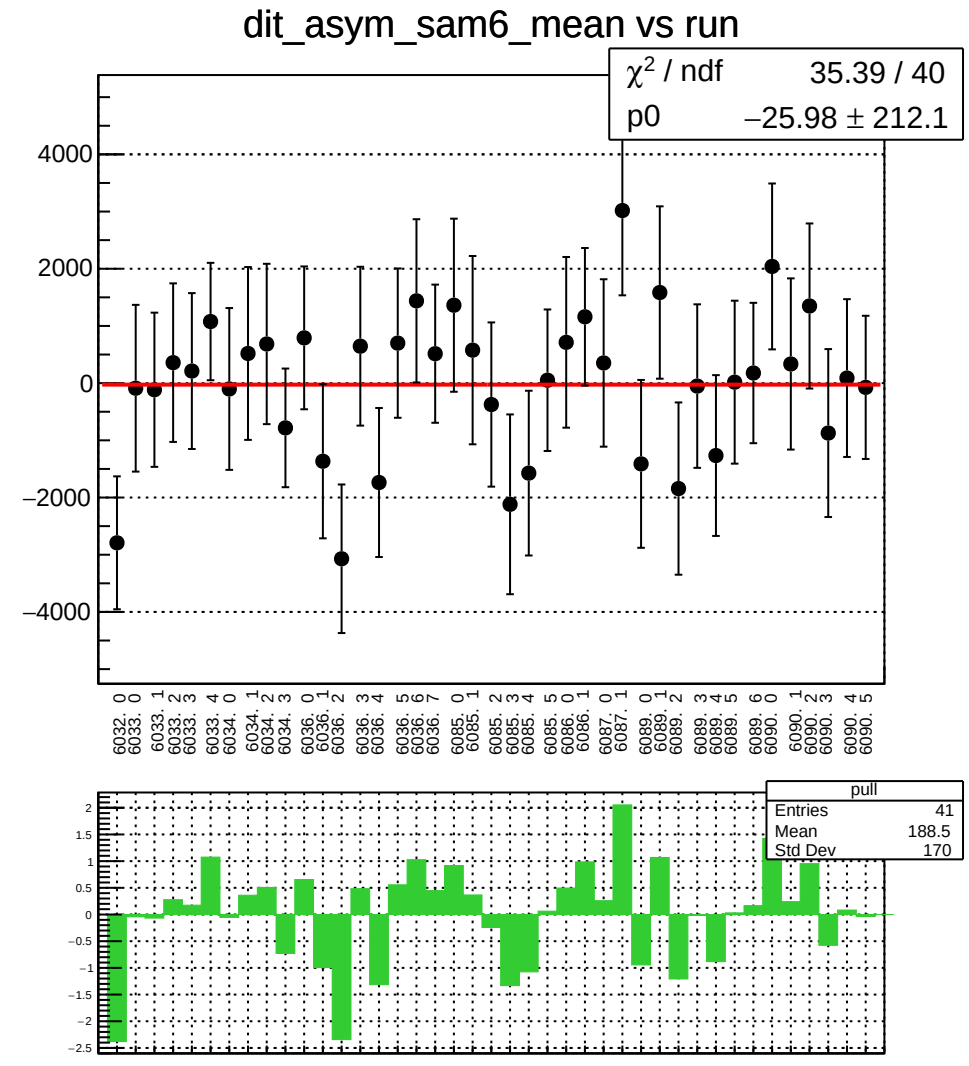

pull1D
Entries 41
Mean −0.02062
Std Dev 1.133

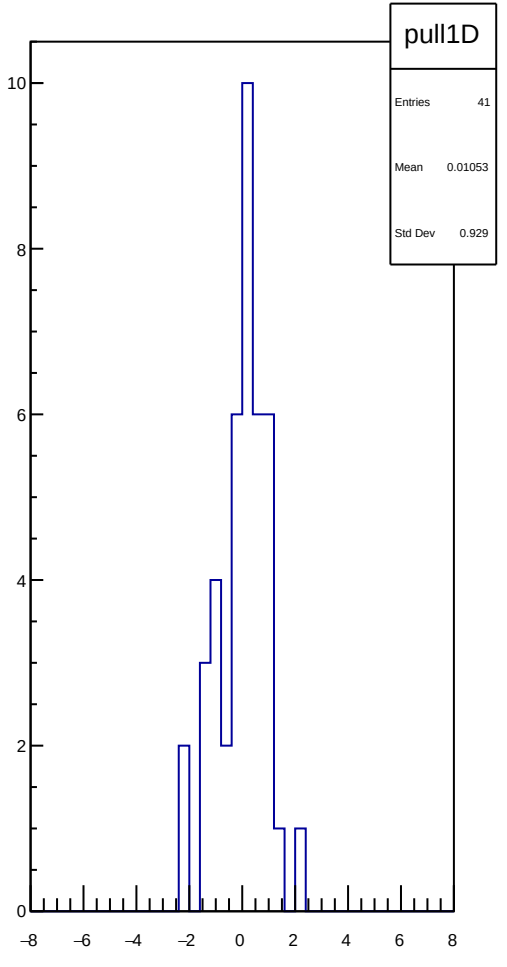

asym_sam5_correction_rms vs run
χ² / ndf 3.265e+04 / 40
p0 966.3 ± 1.092
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

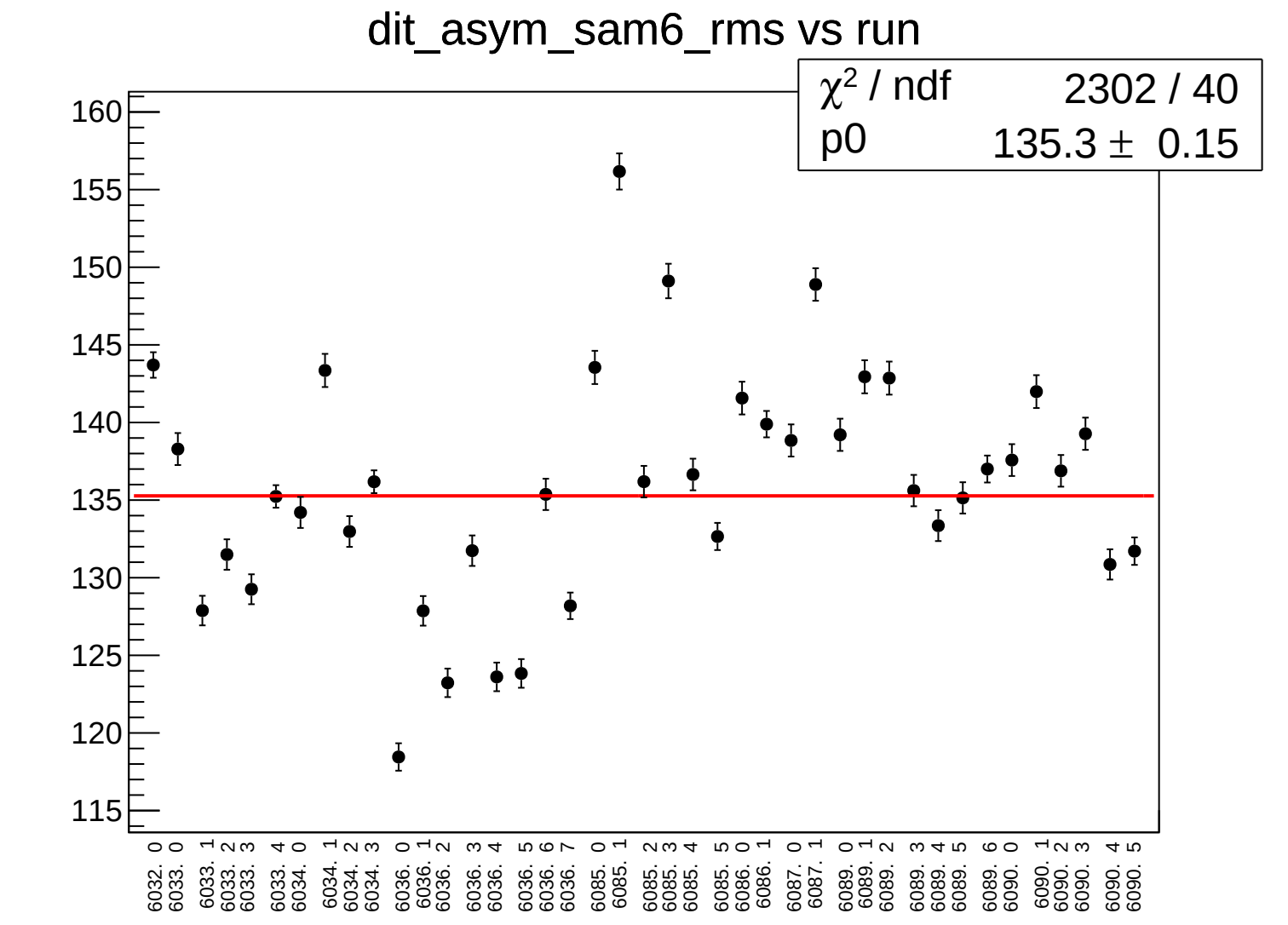

asym_sam5_mean vs run
χ² / ndf 49.96 / 40
p0 3295 ± 1528
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 34.35
Std Dev 29.75
2
1
0
−1
−2

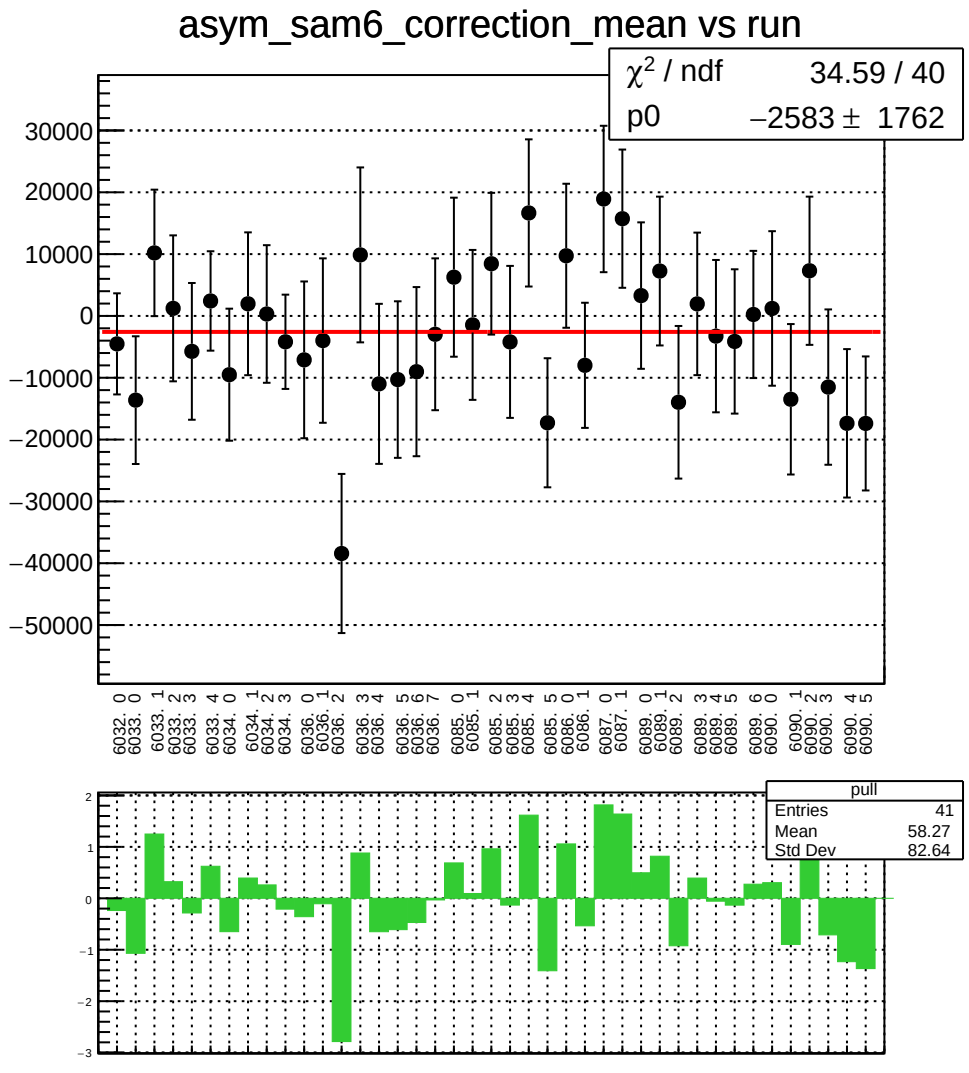

pull1D
Entries 41
Mean 0.02086
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

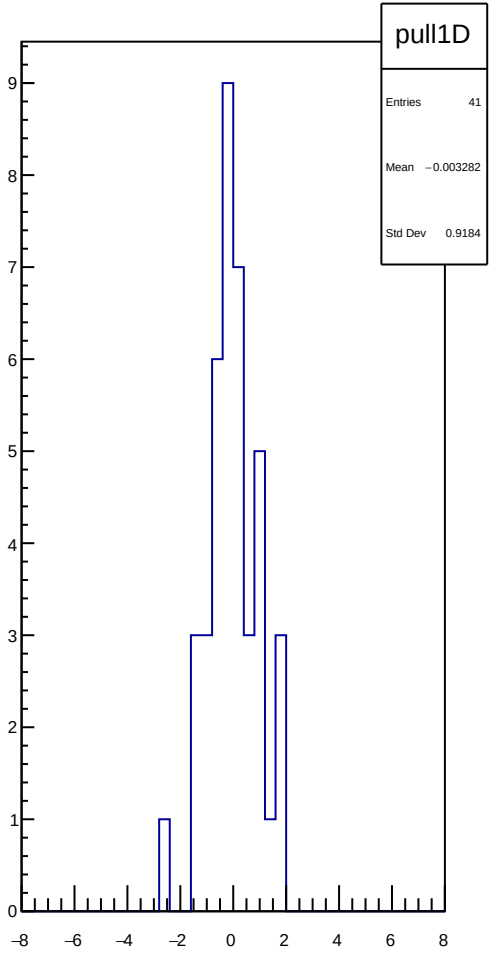

asym_sam5_rms vs run
χ² / ndf 3.221e+04 / 40
p0 956.1 ± 1.08
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

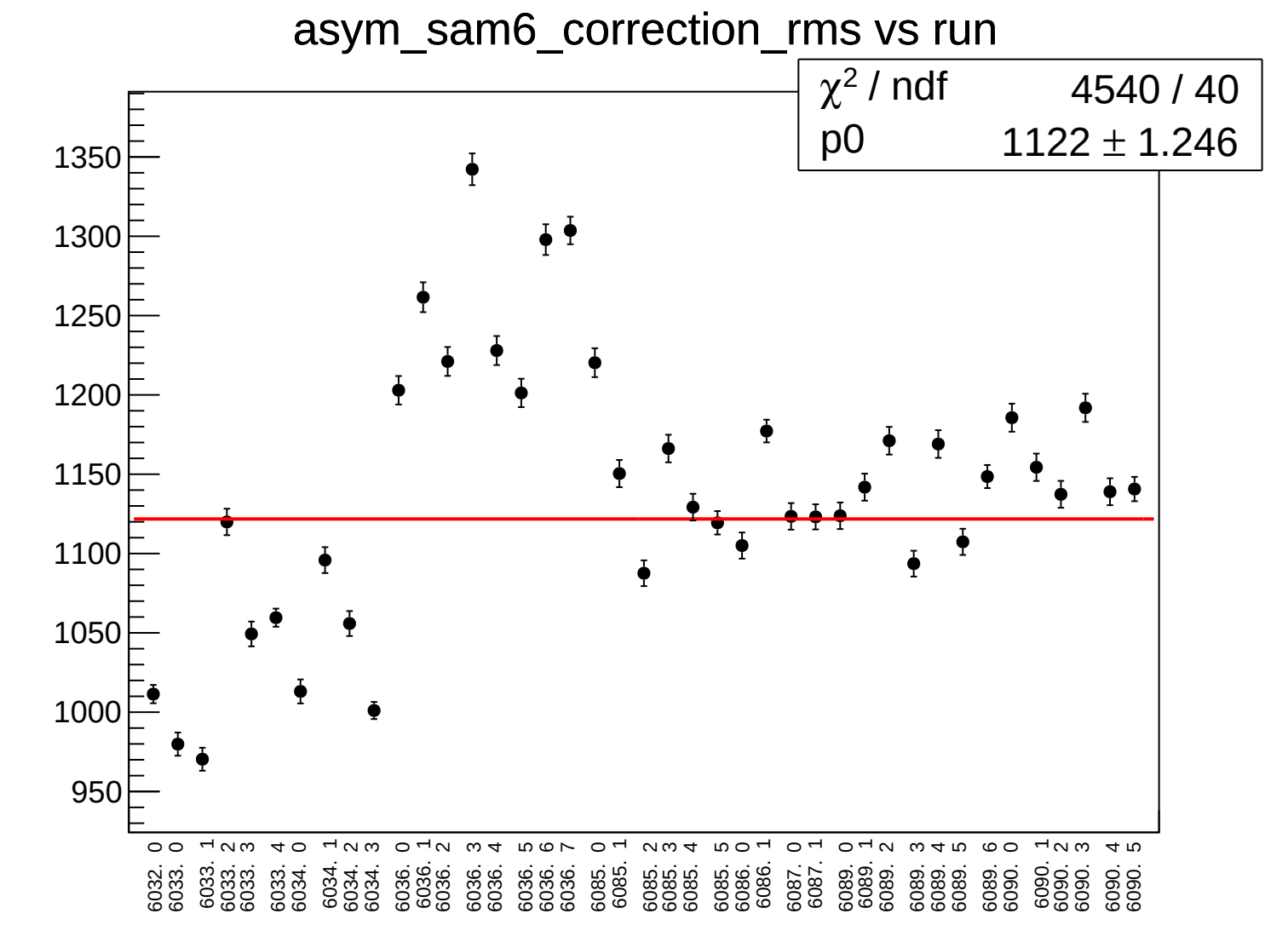

dit_asym_sam6_mean vs run
χ² / ndf 35.39 / 40
p0 −25.98 ± 212.1
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 188.5
Std Dev 170
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

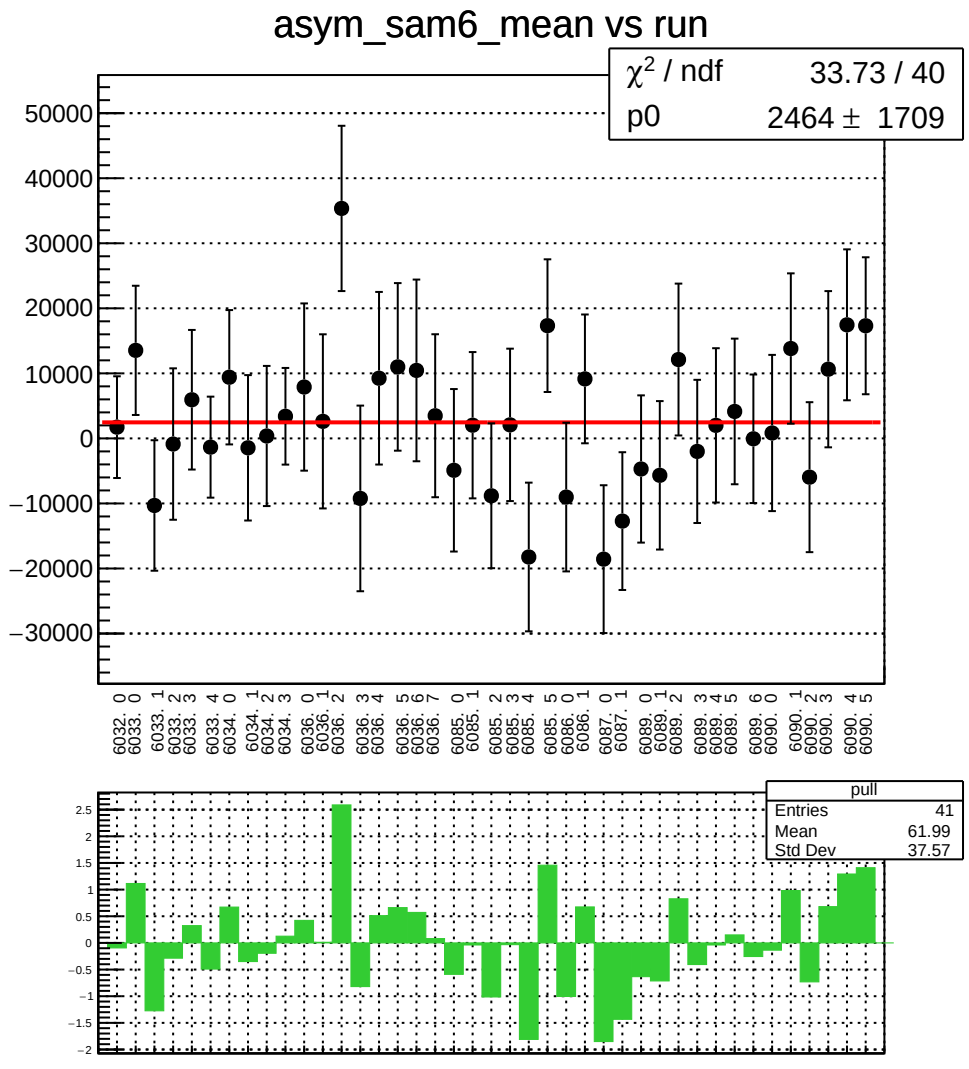

pull1D
Entries 41
Mean 0.01053
Std Dev 0.929
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

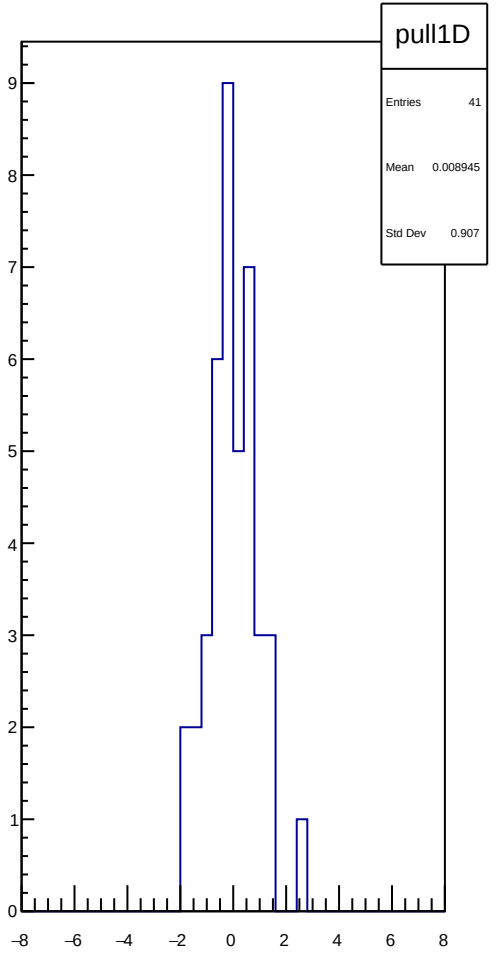

dit_asym_sam6_rms vs run
χ² / ndf 2302 / 40
p0 135.3 ± 0.15
160
155
150
145
140
135
130
125
120
115
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

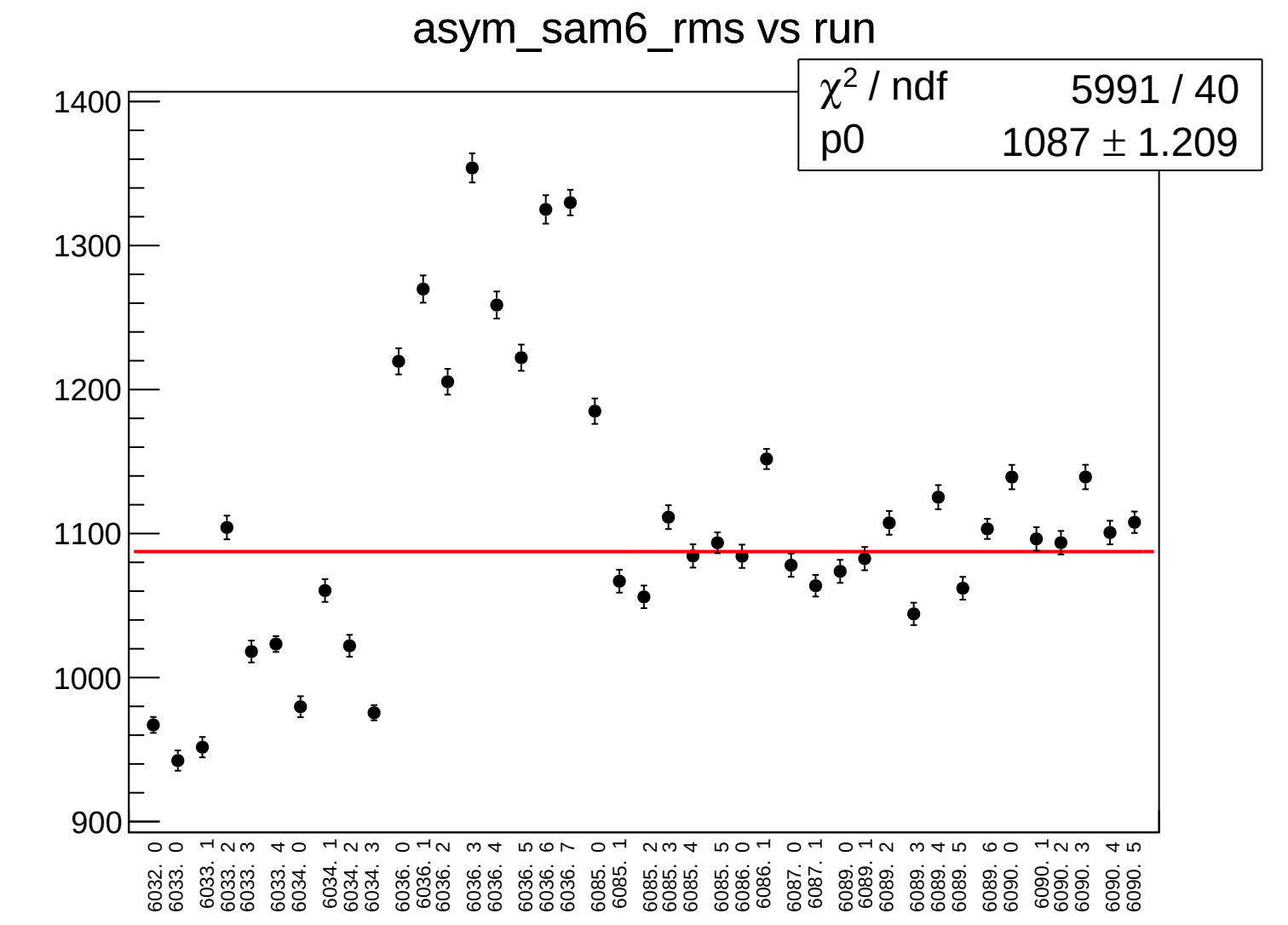

asym_sam6_correction_mean vs run
χ² / ndf 34.59 / 40
p0 −2583 ± 1762
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 58.27
Std Dev 82.64
2
1
0
−1
−2
−3

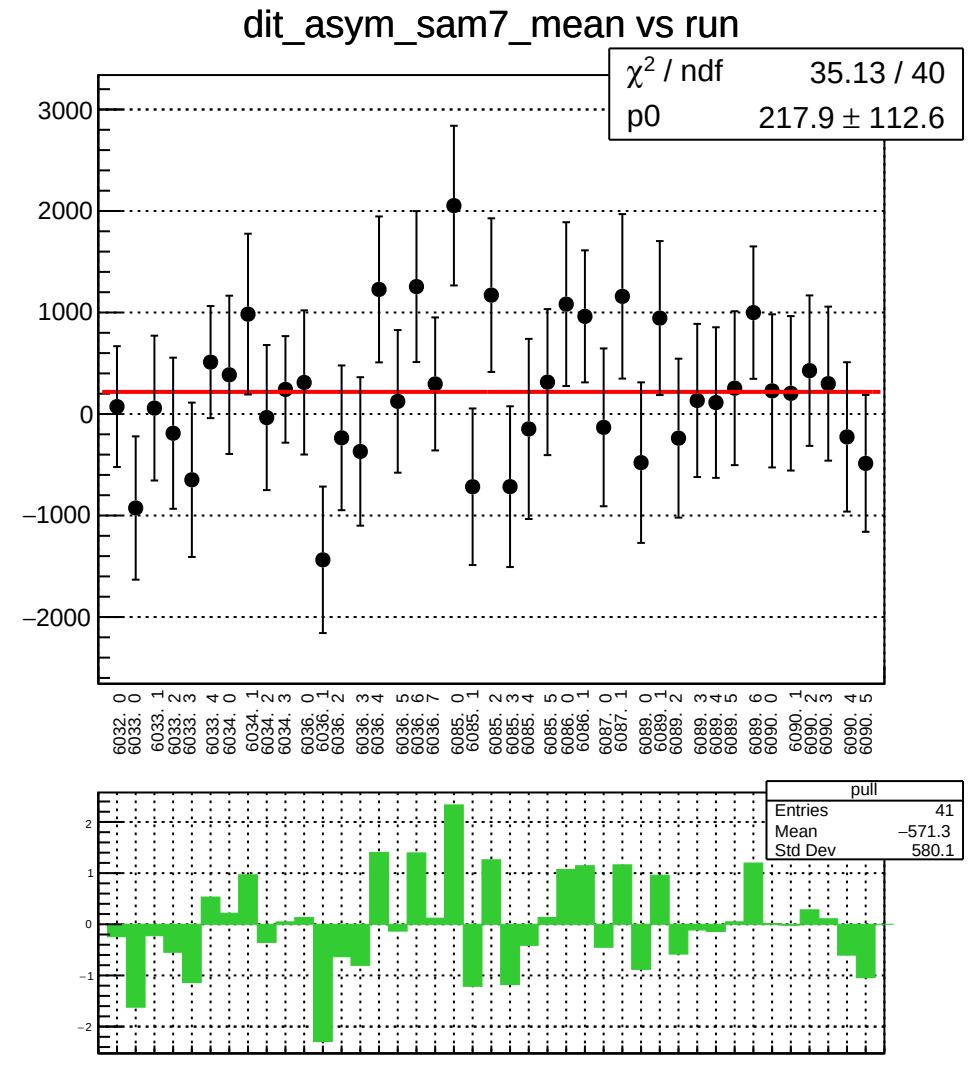

pull1D
Entries 41
Mean −0.003282
Std Dev 0.9184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

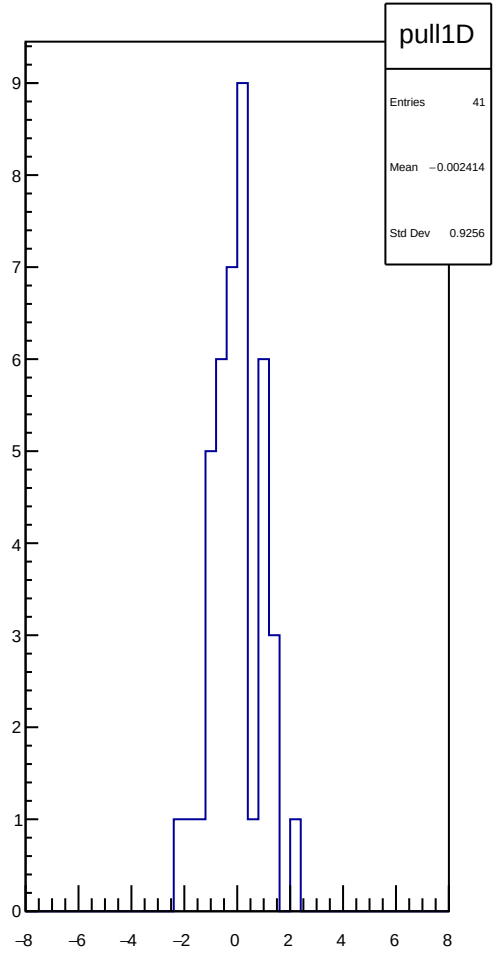

asym_sam6_correction_rms vs run
χ² / ndf 4540 / 40
p0 1122 ± 1.246
1350
1300
1250
1200
1150
1100
1050
1000
950
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

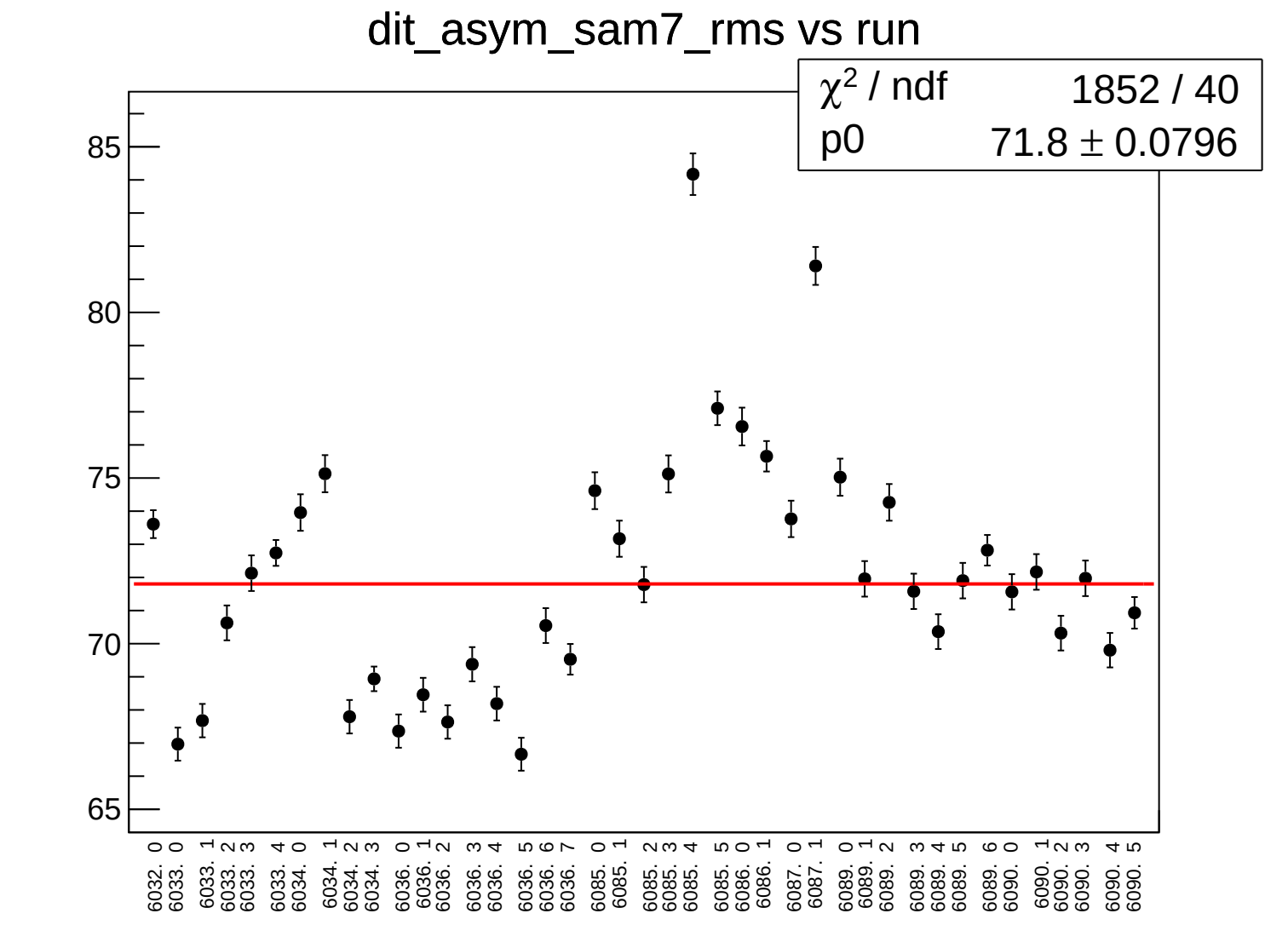

asym_sam6_mean vs run
χ² / ndf 33.73 / 40
p0 2464 ± 1709
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 61.99
Std Dev 37.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

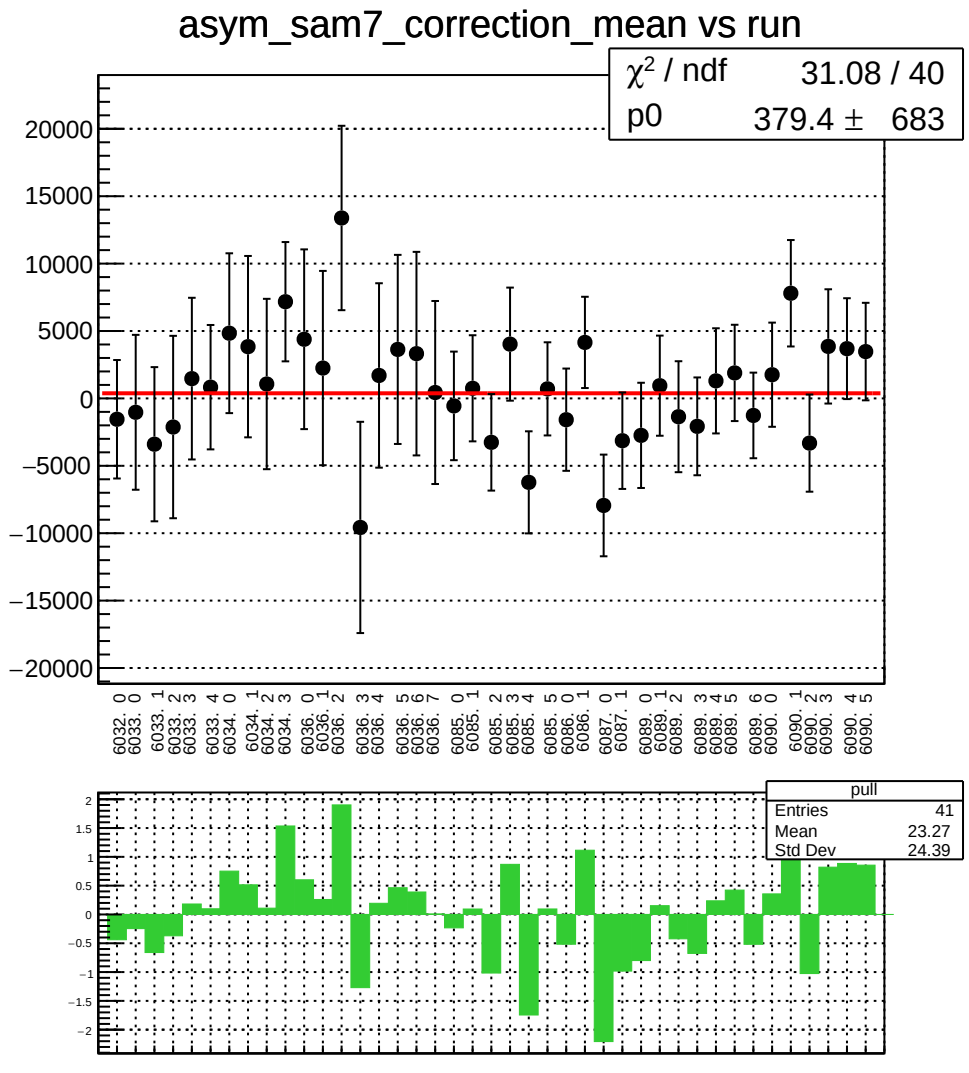

pull1D
Entries 41
Mean 0.008945
Std Dev 0.907
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

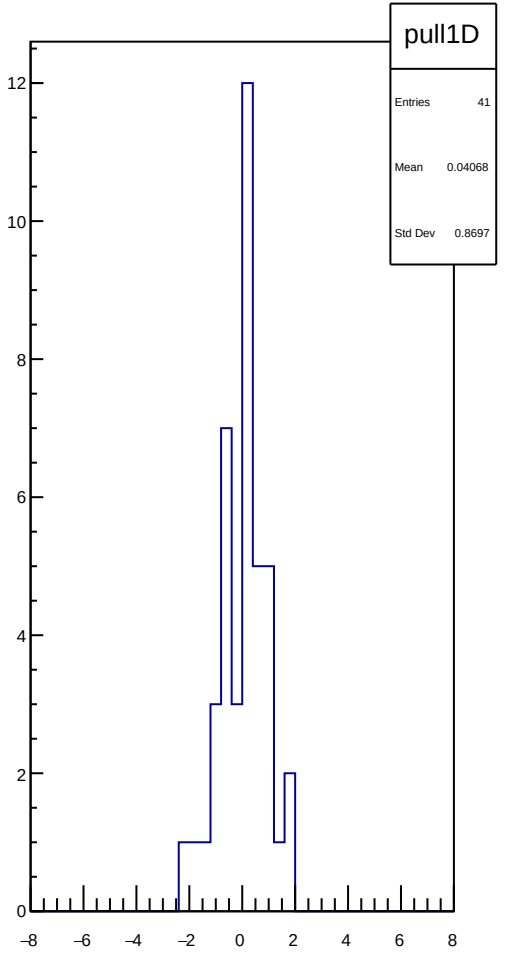

asym_sam6_rms vs run
χ² / ndf 5991 / 40
p0 1087 ± 1.209
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

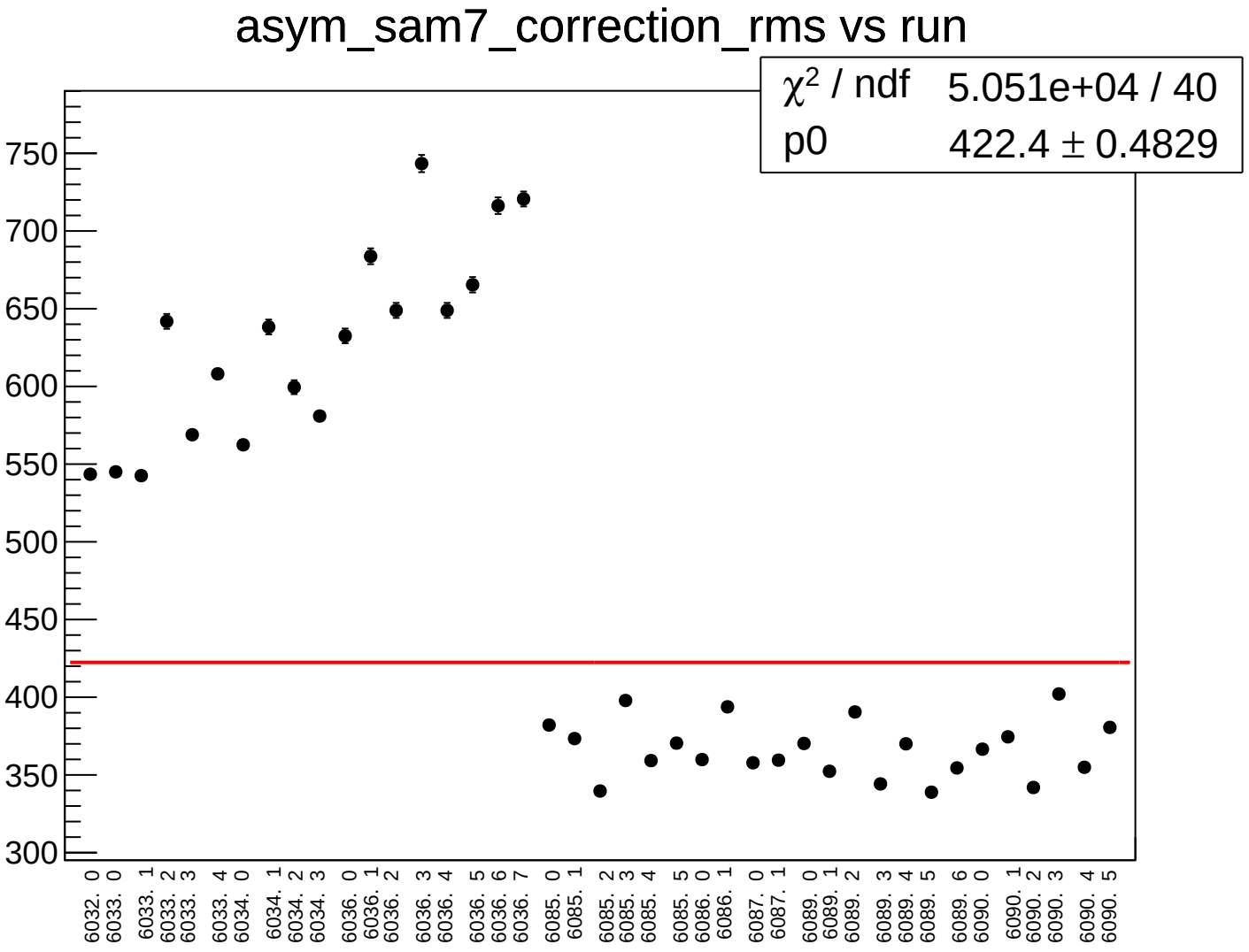

dit_asym_sam7_mean vs run
χ² / ndf 35.13 / 40
p0 217.9 ± 112.6
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −571.3
Std Dev 580.1
2
1
0
−1
−2

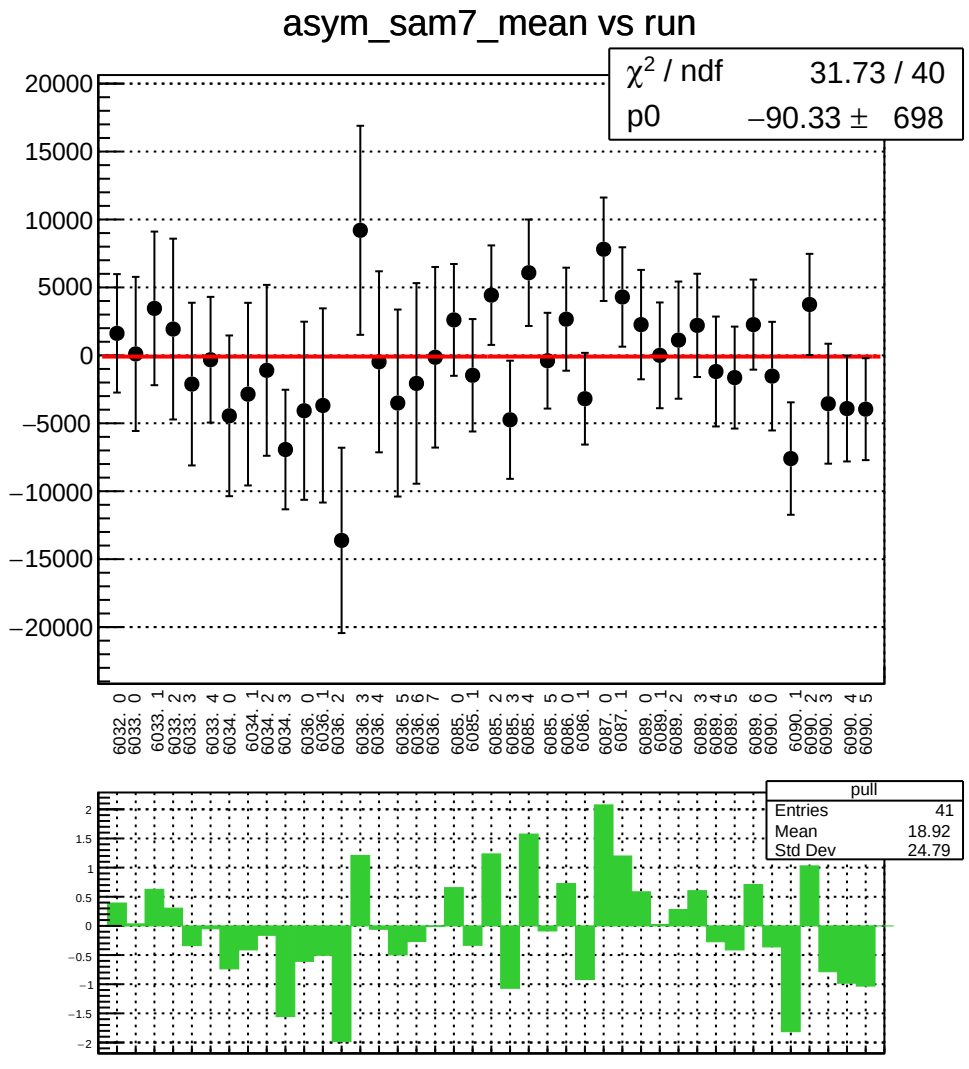

pull1D
Entries 41
Mean −0.002414
Std Dev 0.9256
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

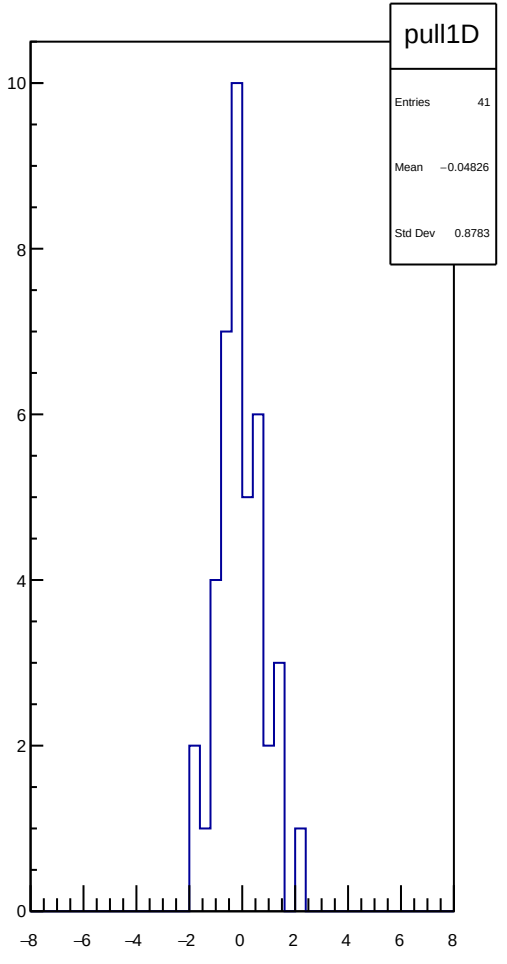

dit_asym_sam7_rms vs run
χ² / ndf 1852 / 40
p0 71.8 ± 0.0796
85
80
75
70
65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

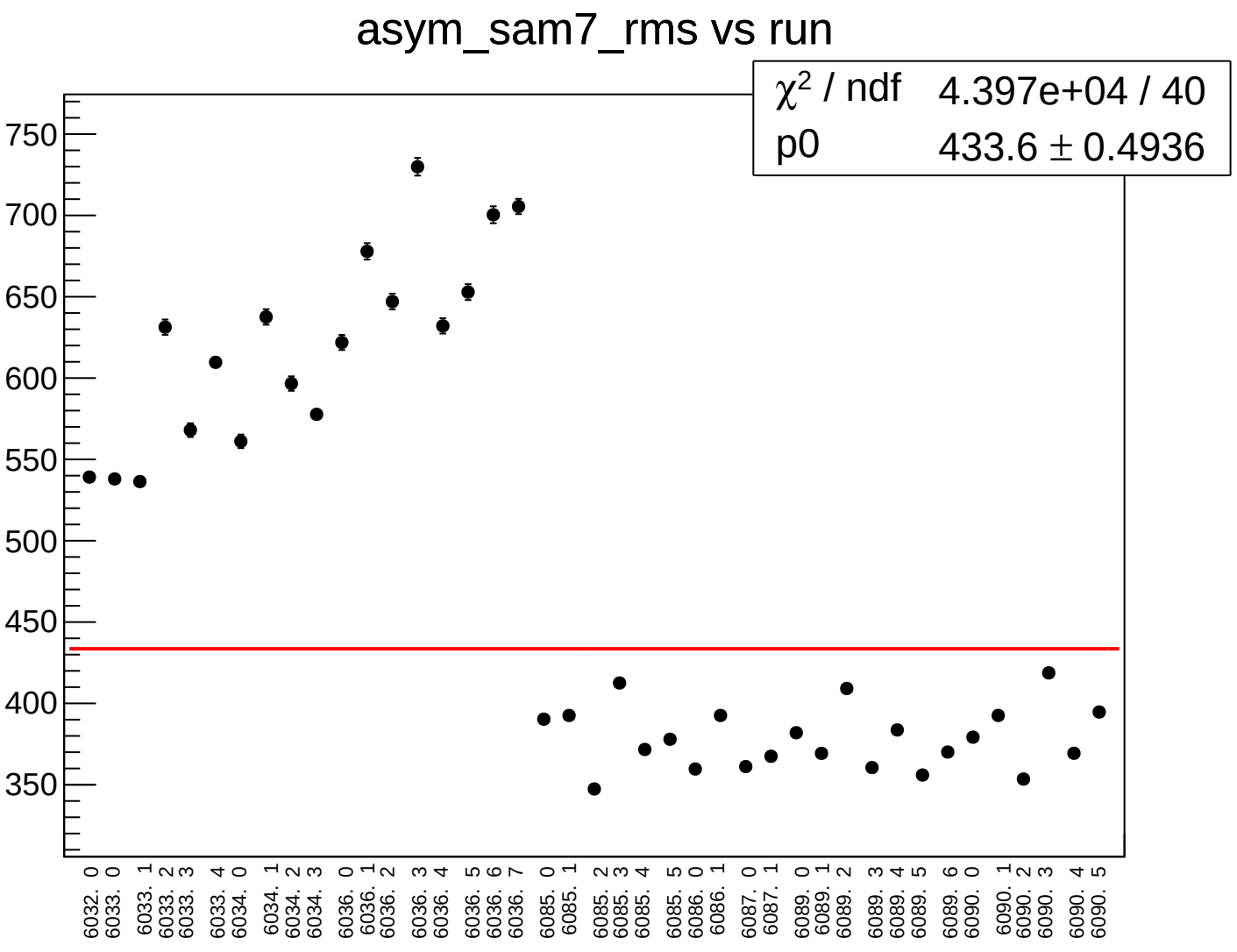

asym_sam7_correction_mean vs run
χ² / ndf 31.08 / 40
p0 379.4 ± 683
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 23.27
Std Dev 24.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

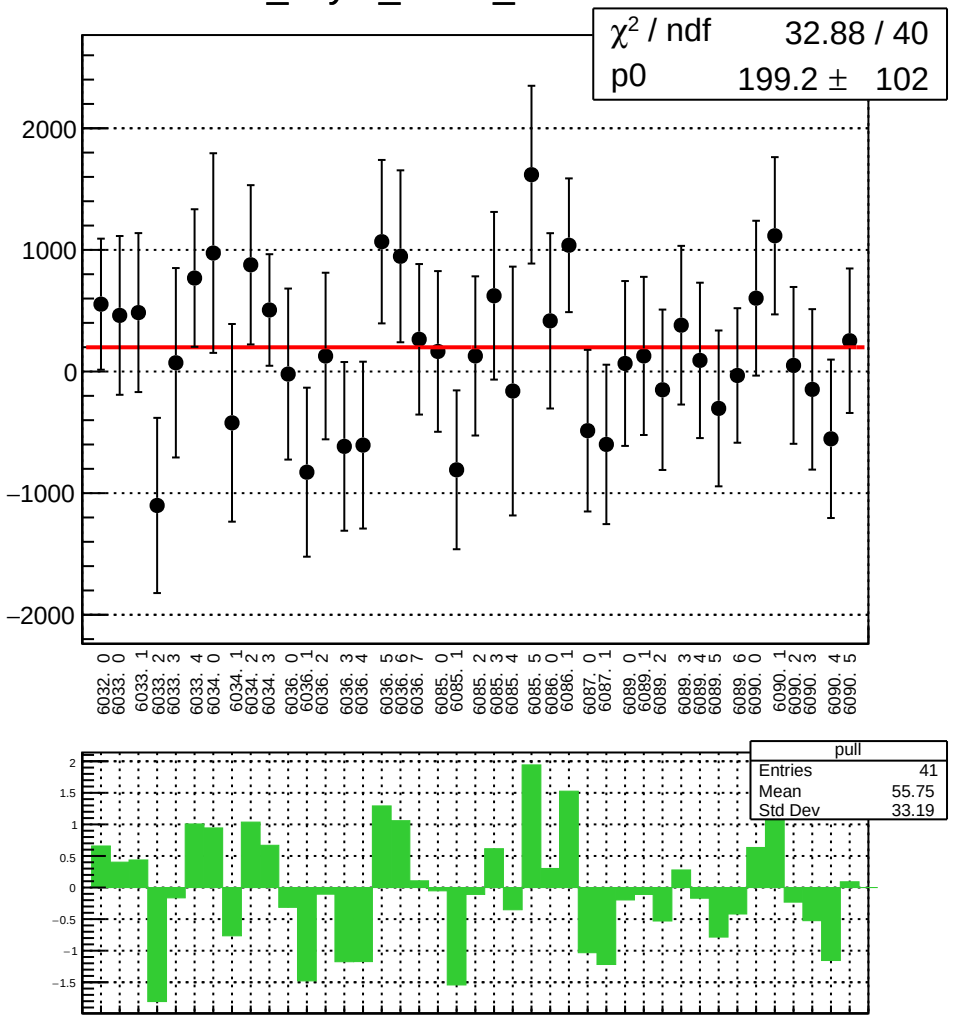

pull1D
Entries 41
Mean 0.04068
Std Dev 0.8697
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

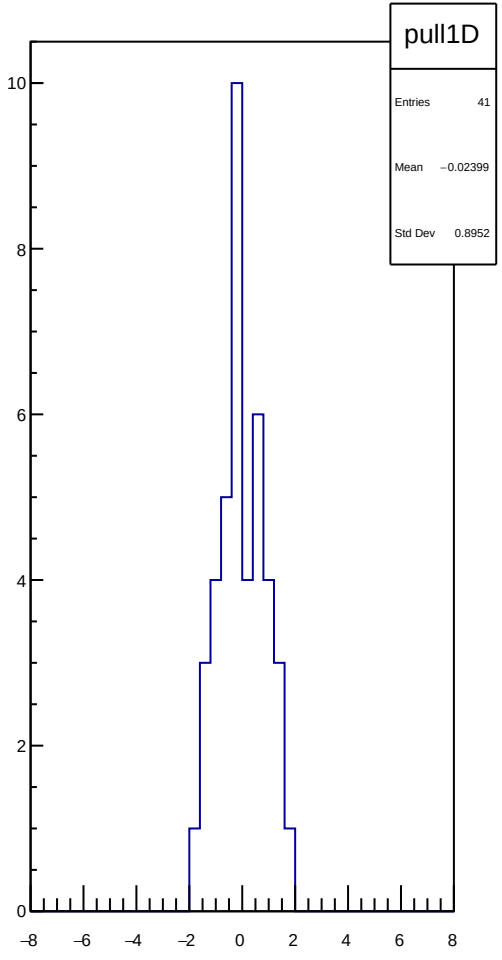

asym_sam7_correction_rms vs run
χ² / ndf 5.051e+04 / 40
p0 422.4 ± 0.4829
750
700
650
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

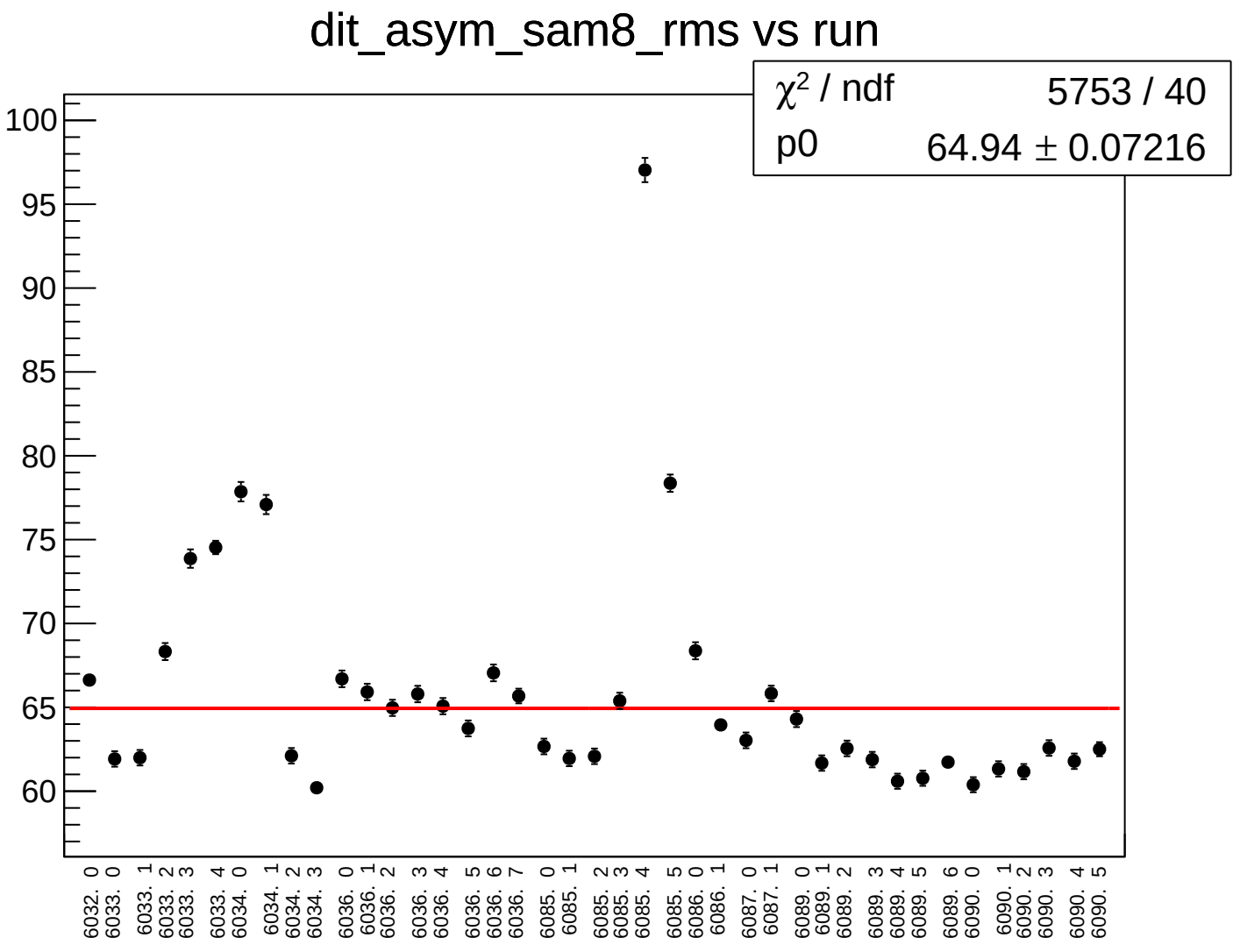

asym_sam7_mean vs run
χ² / ndf 31.73 / 40
p0 −90.33 ± 698
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 18.92
Std Dev 24.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

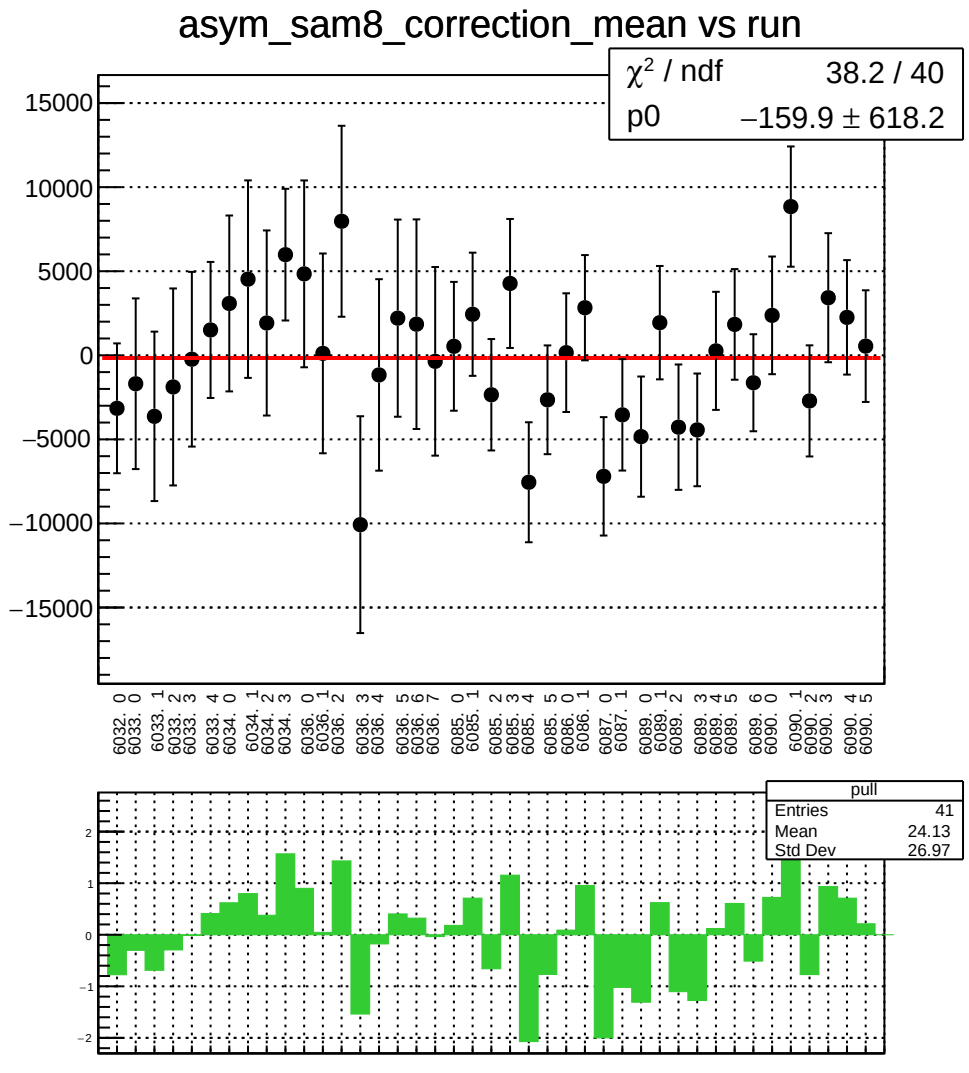

pull1D
Entries 41
Mean −0.04826
Std Dev 0.8783
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

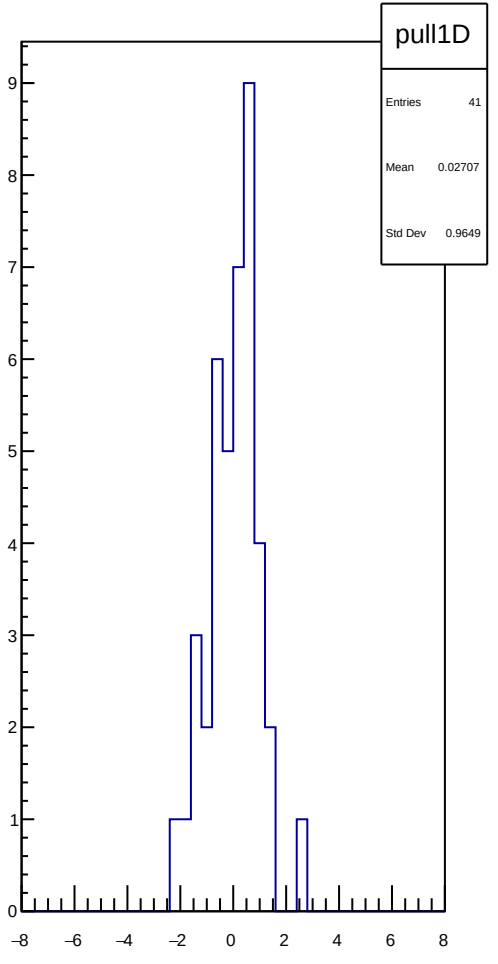

asym_sam7_rms vs run
χ² / ndf 4.397e+04 / 40
p0 433.6 ± 0.4936
750
700
650
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

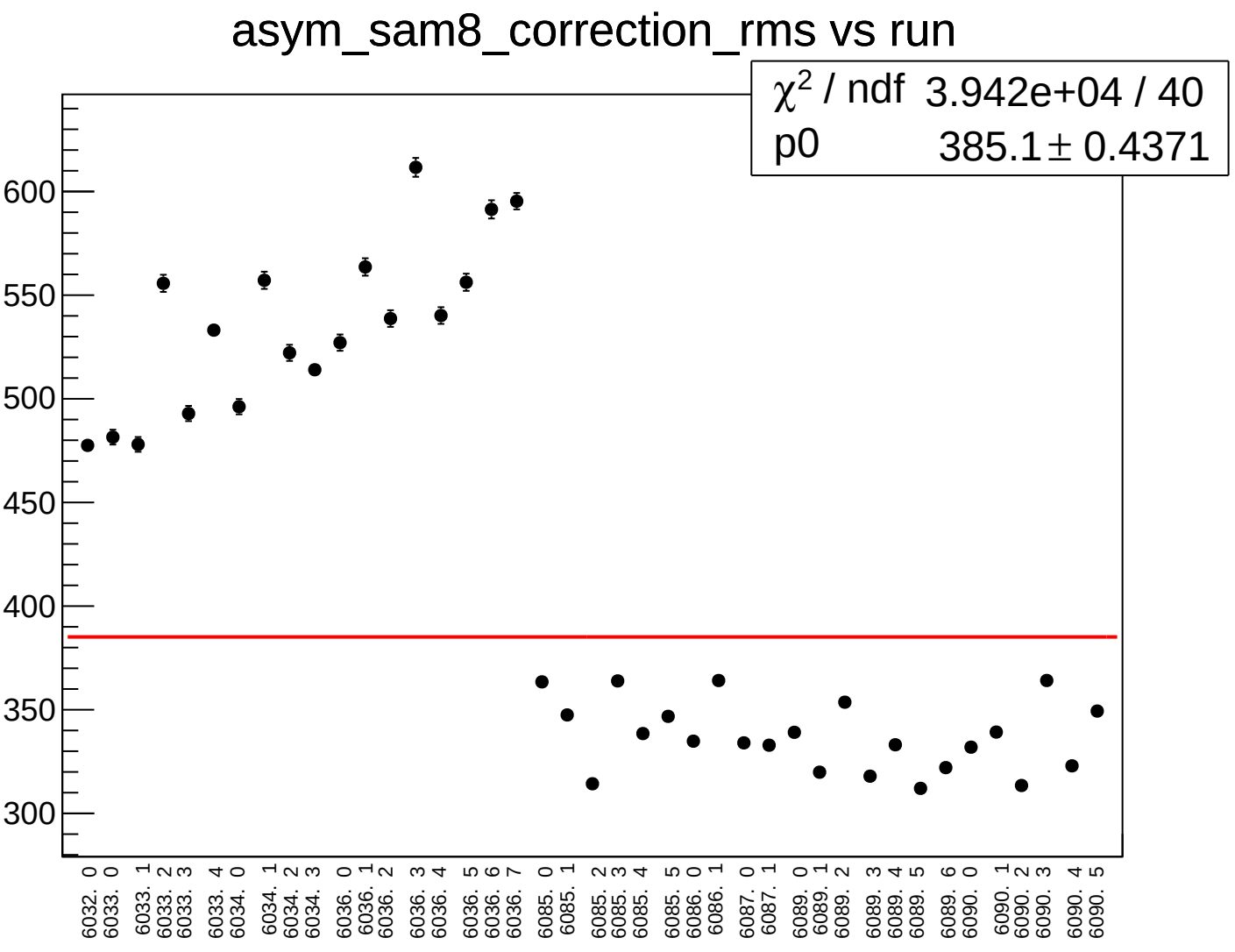

dit_asym_sam8_mean vs run
χ² / ndf 32.88 / 40
p0 199.2 ± 102
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 55.75
Std Dev 33.19
2
1.5
1
0.5
0
−0.5
−1
−1.5

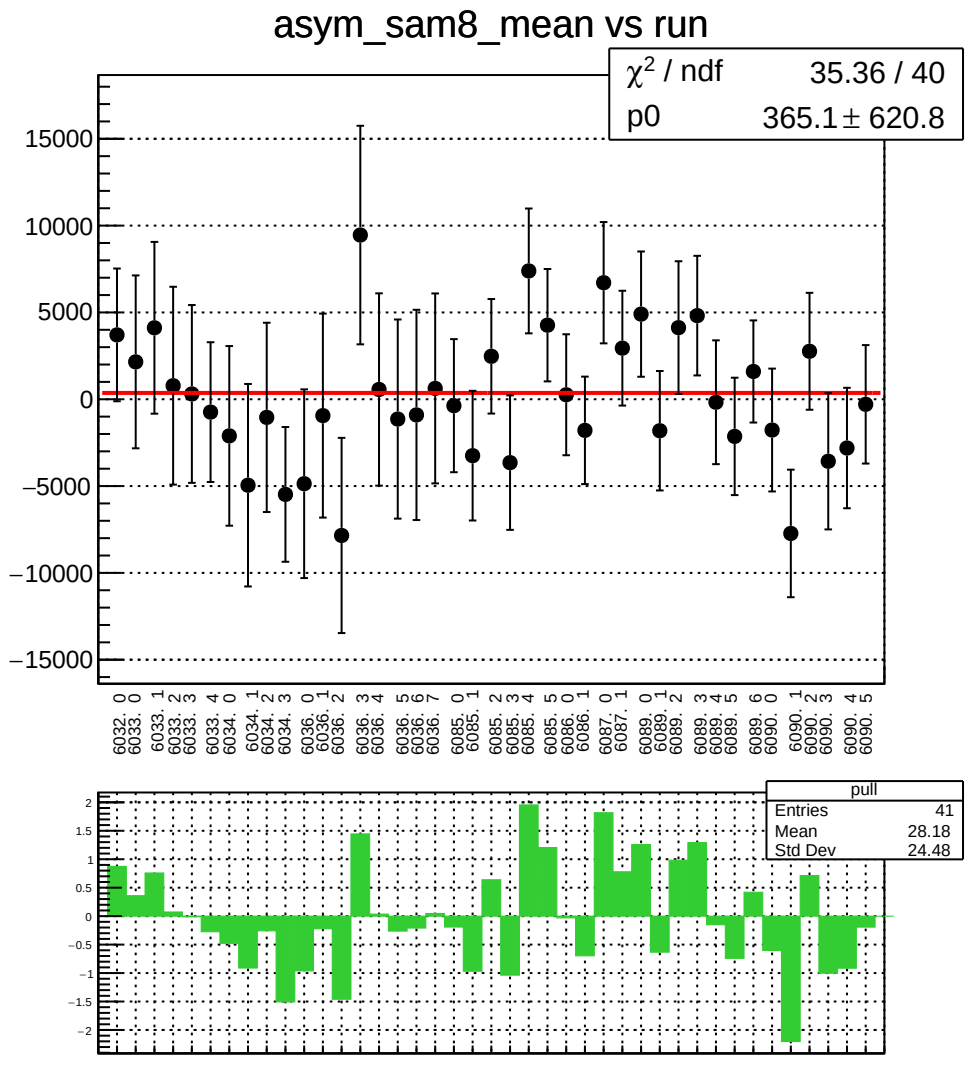

pull1D
Entries 41
Mean −0.02399
Std Dev 0.8952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

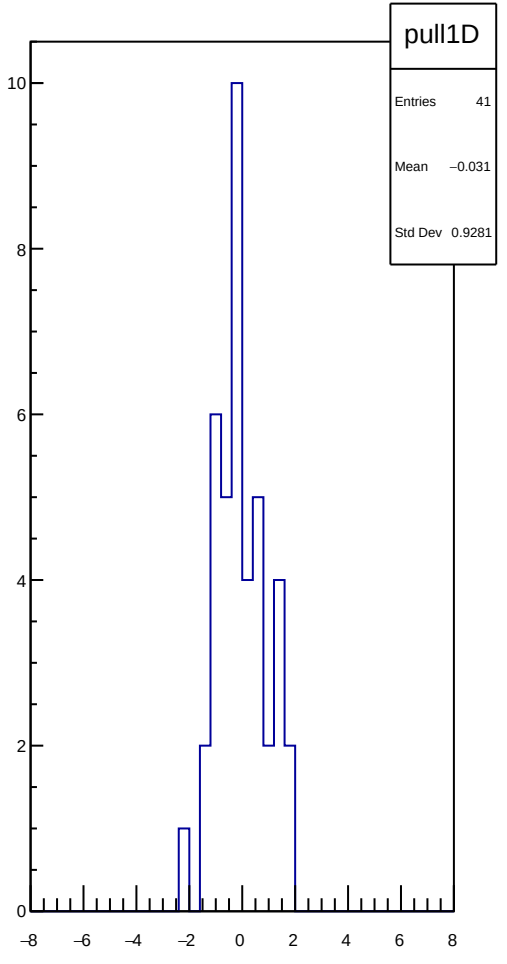

dit_asym_sam8_rms vs run
χ² / ndf 5753 / 40
p0 64.94 ± 0.07216
100
95
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

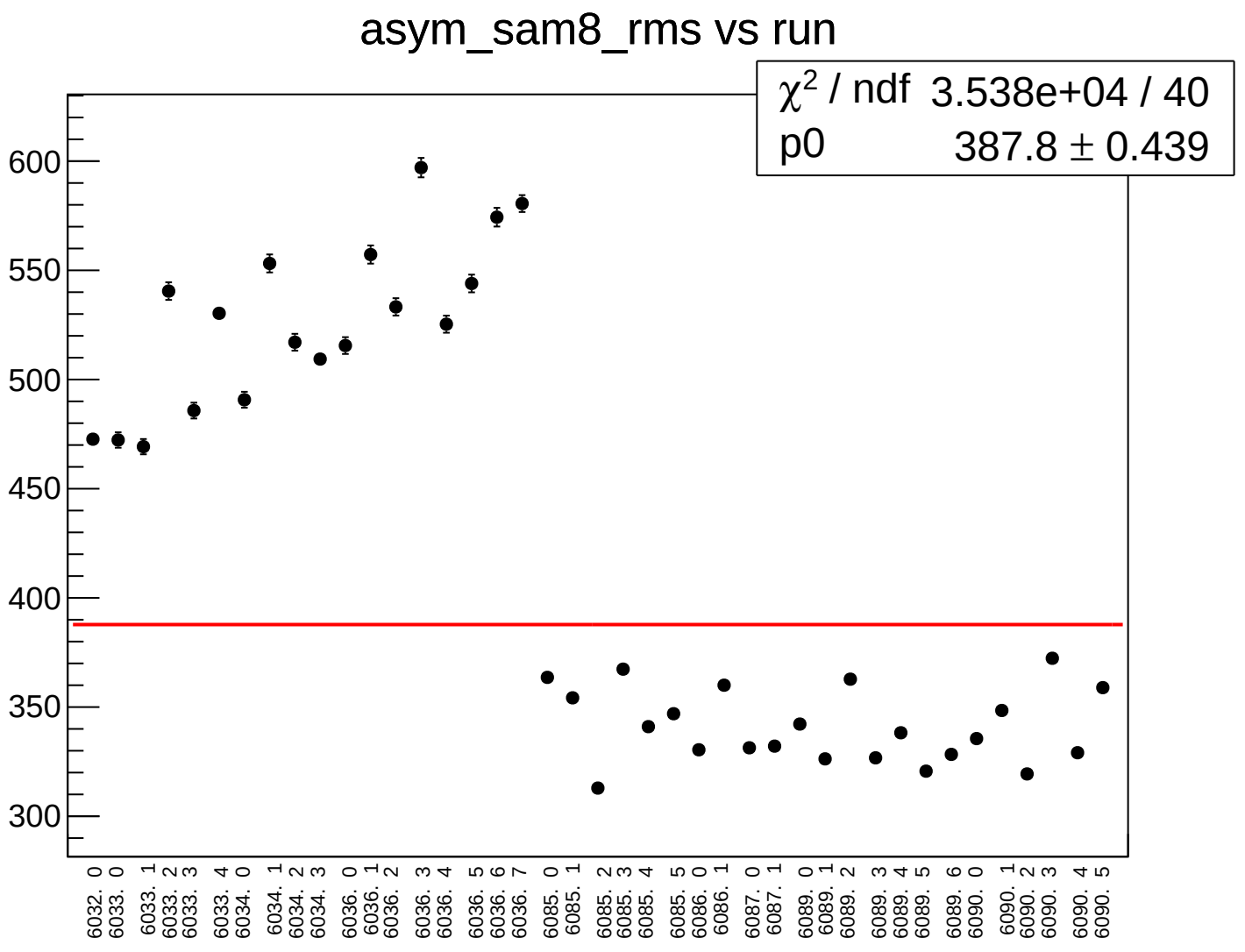

asym_sam8_correction_mean vs run
χ² / ndf 38.2 / 40
p0 −159.9 ± 618.2
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 24.13
Std Dev 26.97
2
1
0
−1
−2

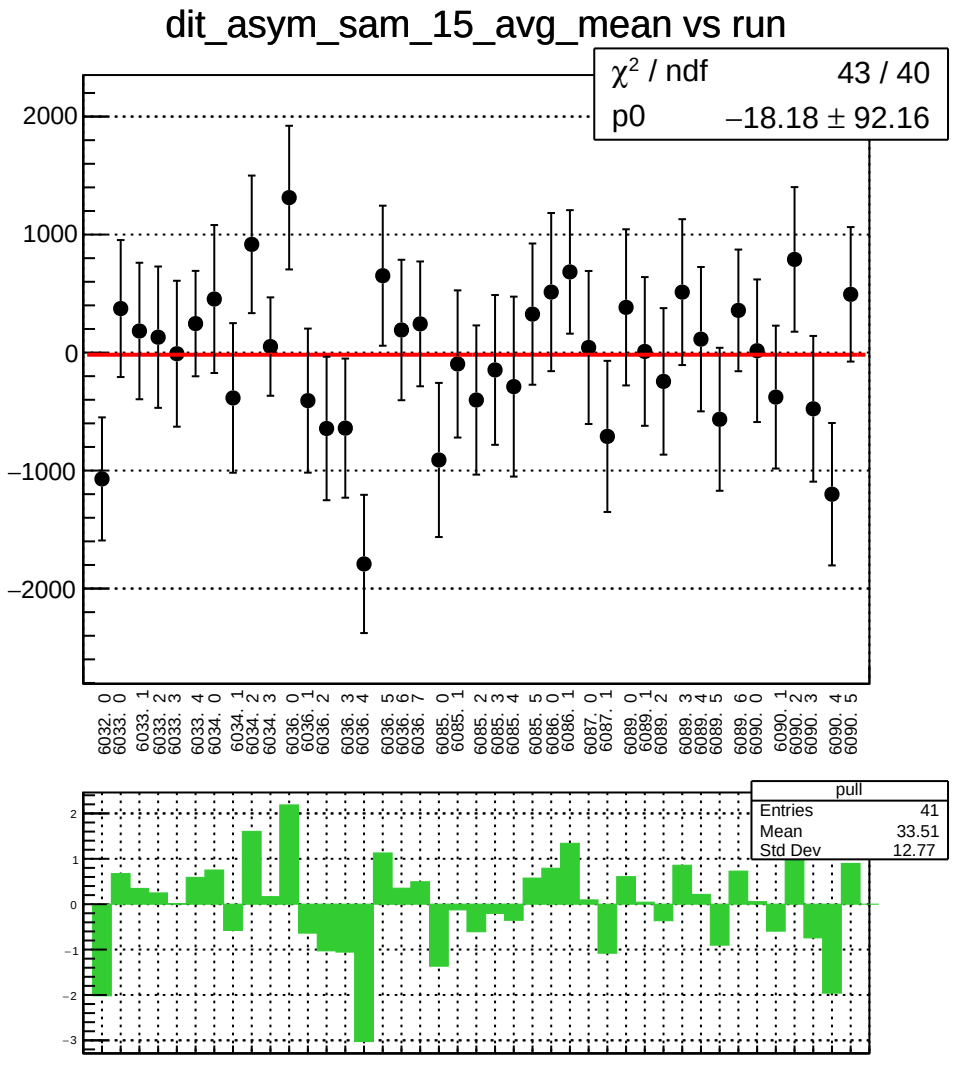

pull1D
Entries 41
Mean 0.02707
Std Dev 0.9649
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

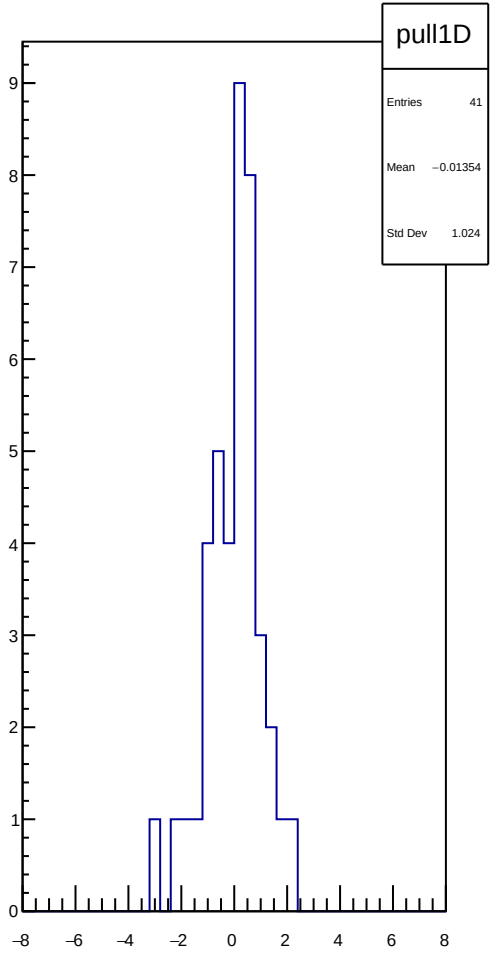

asym_sam8_correction_rms vs run
χ² / ndf 3.942e+04 / 40
p0 385.1 ± 0.4371
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

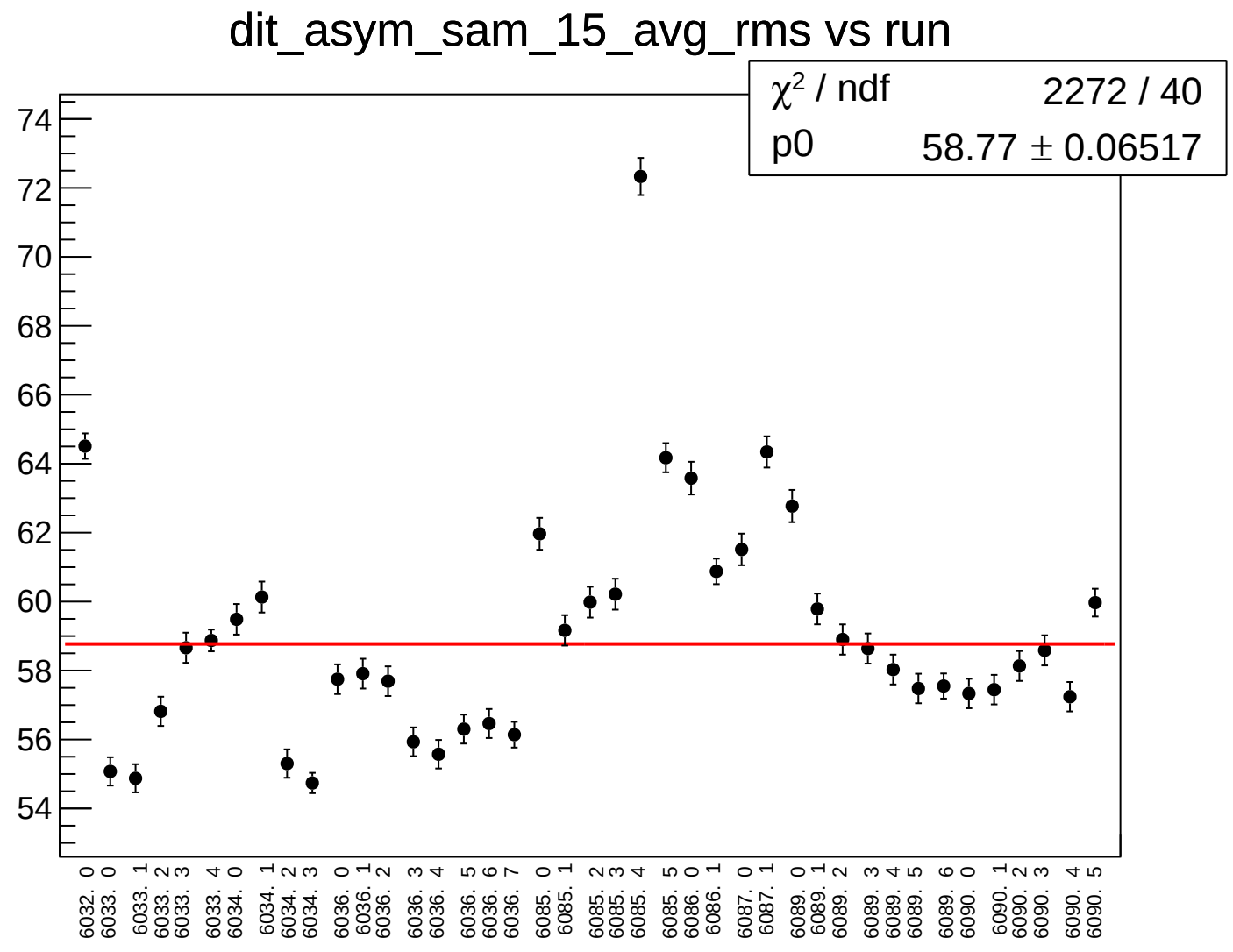

asym_sam8_mean vs run
χ² / ndf 35.36 / 40
p0 365.1 ± 620.8
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 28.18
Std Dev 24.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

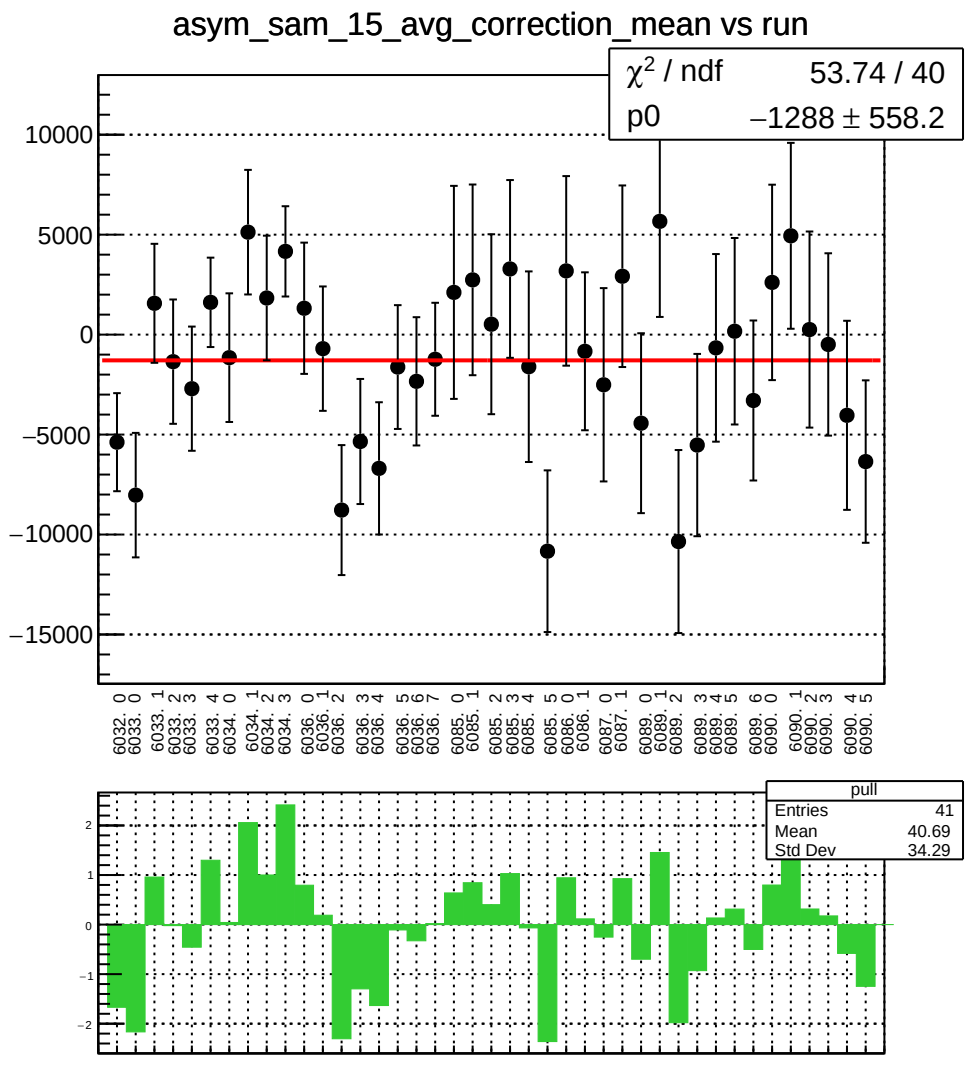

pull1D
Entries 41
Mean −0.031
Std Dev 0.9281
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

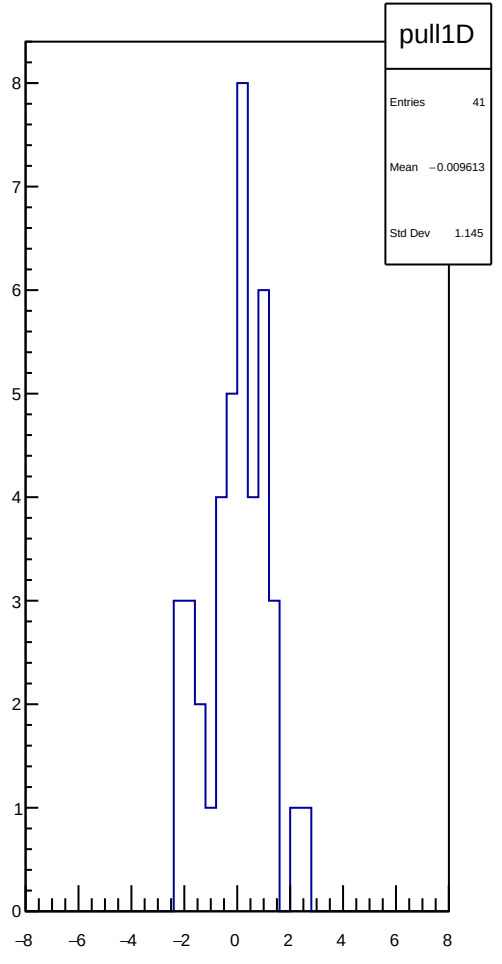

asym_sam8_rms vs run
χ² / ndf 3.538e+04 / 40
p0 387.8 ± 0.439
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

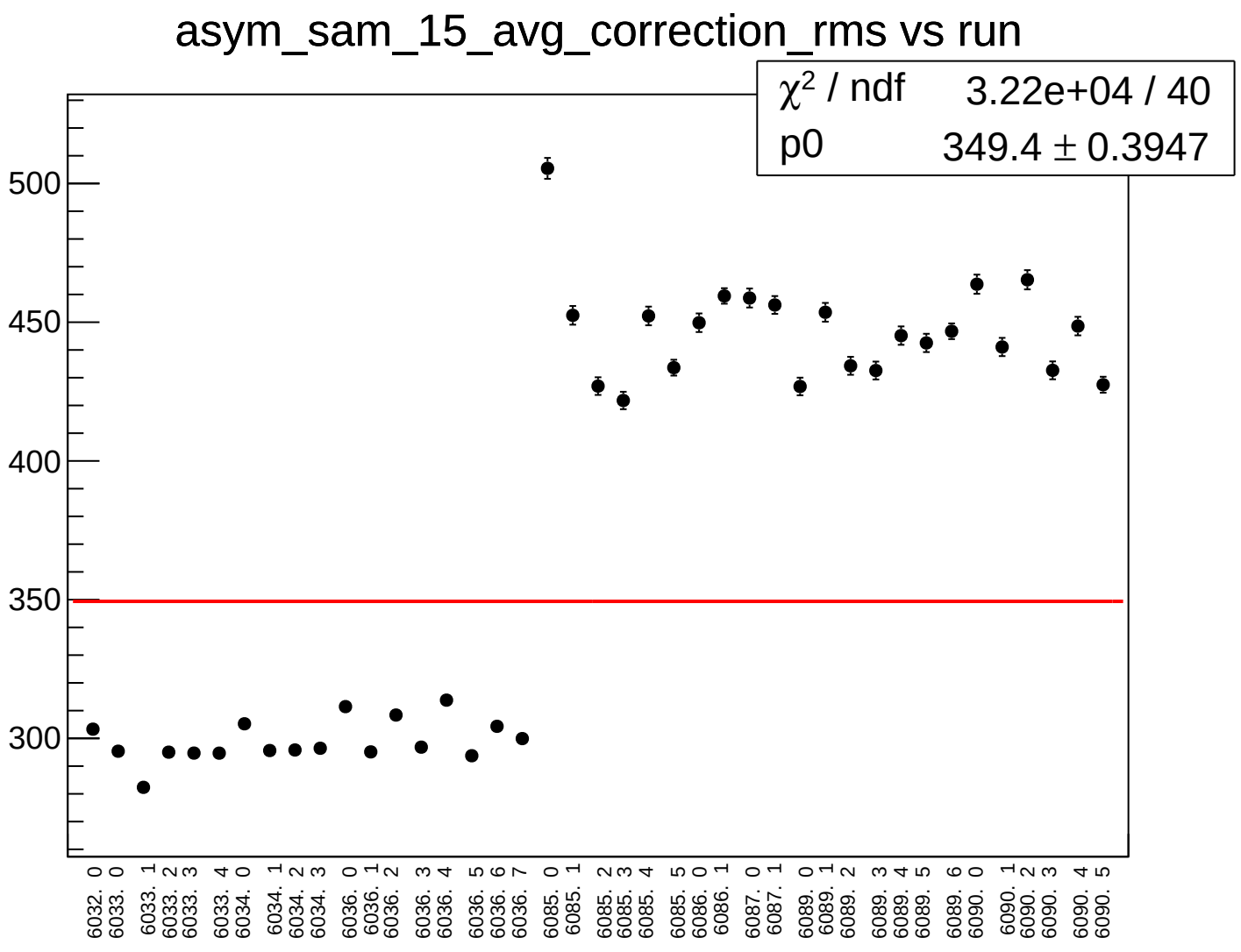

dit_asym_sam_15_avg_mean vs run
χ² / ndf 43 / 40
p0 −18.18 ± 92.16
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 33.51
Std Dev 12.77
2
1
0
−1
−2
−3

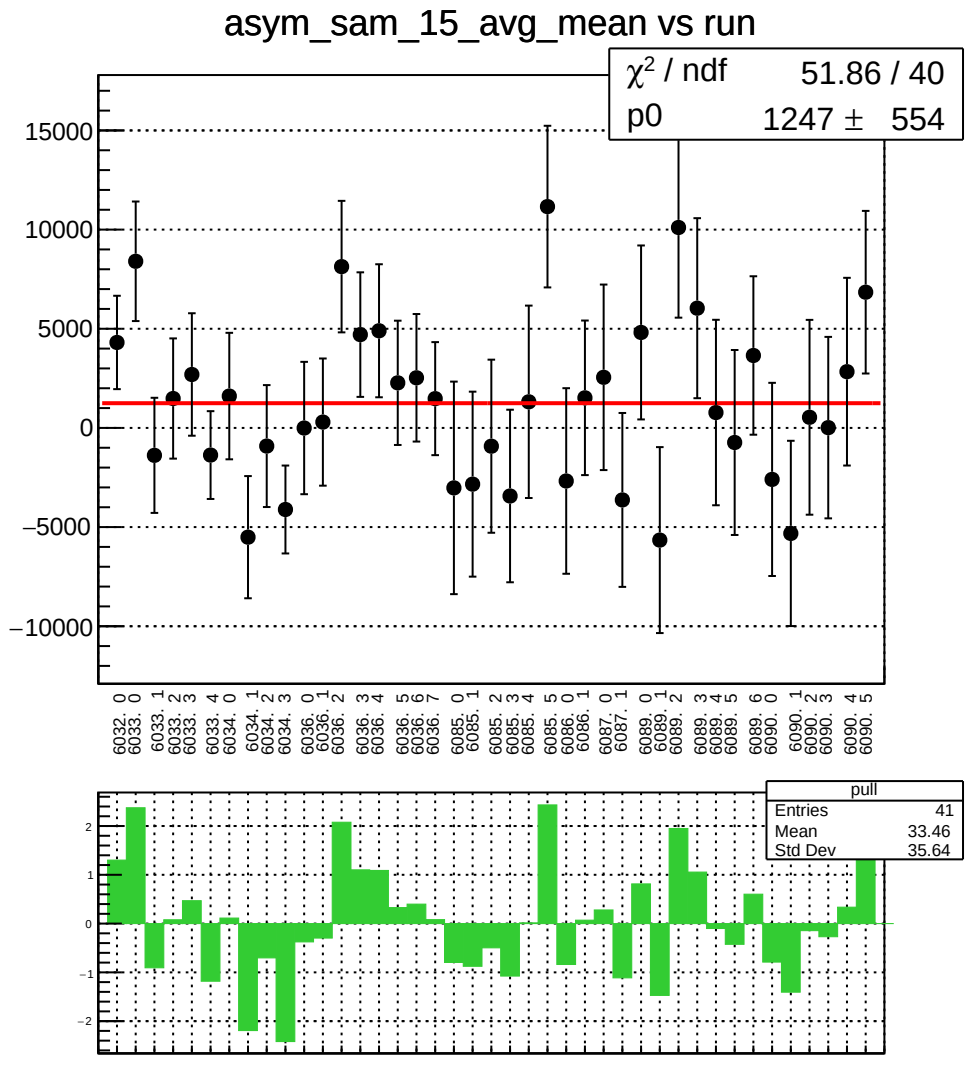

pull1D
Entries 41
Mean −0.01354
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

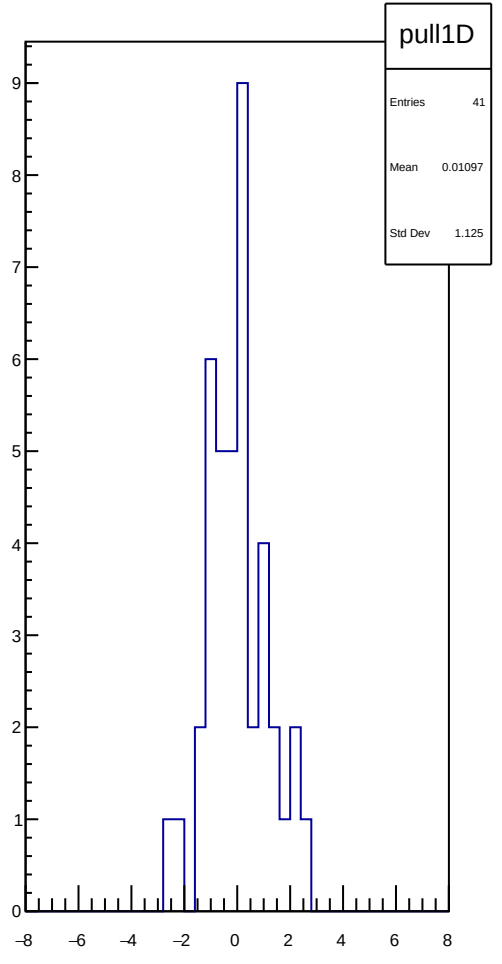

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2272 / 40
p0 58.77 ± 0.06517
74
72
70
68
66
64
62
60
58
56
54
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

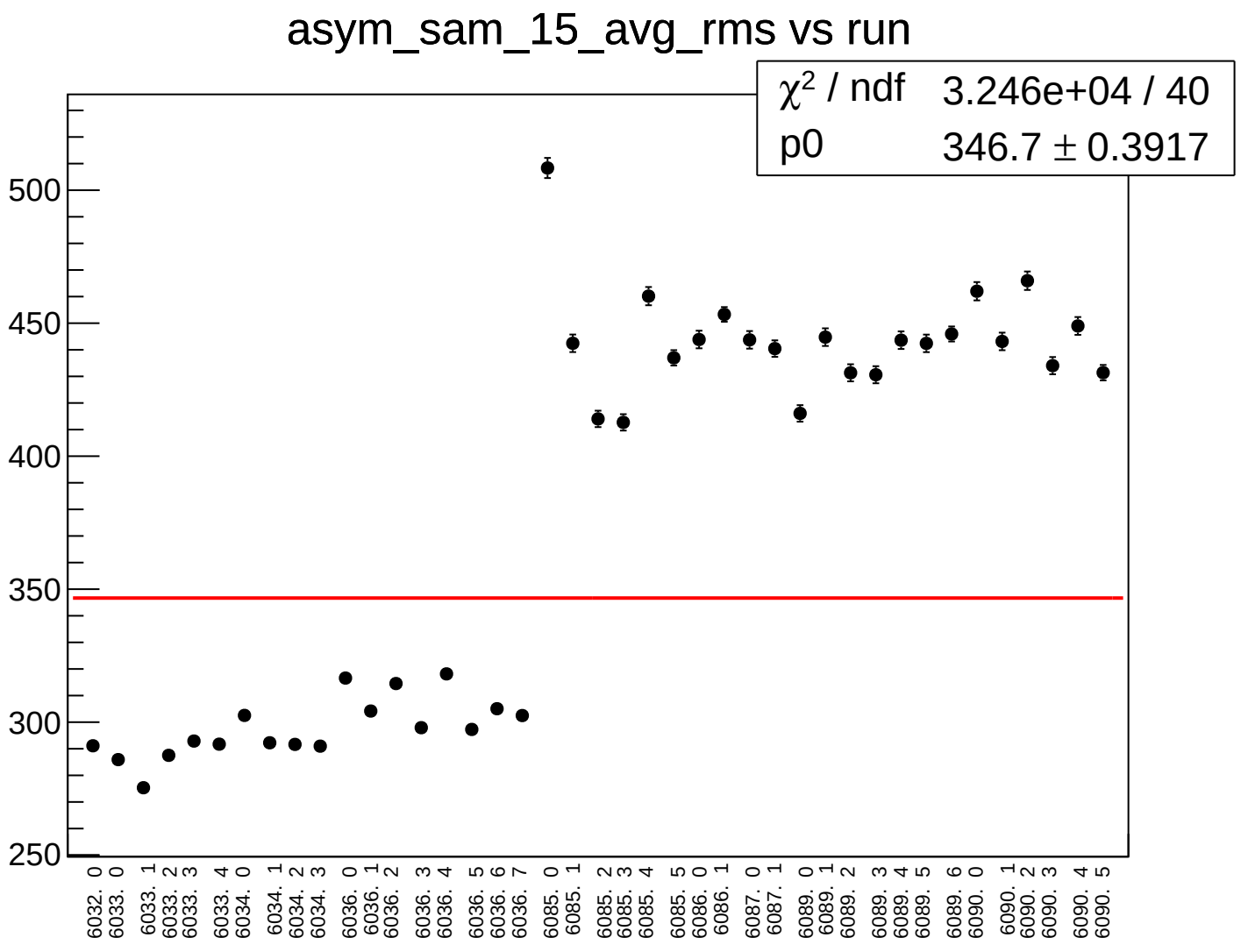

asym_sam_15_avg_correction_mean vs run
χ² / ndf 53.74 / 40
p0 −1288 ± 558.2
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 40.69
Std Dev 34.29
2
1
0
−1
−2

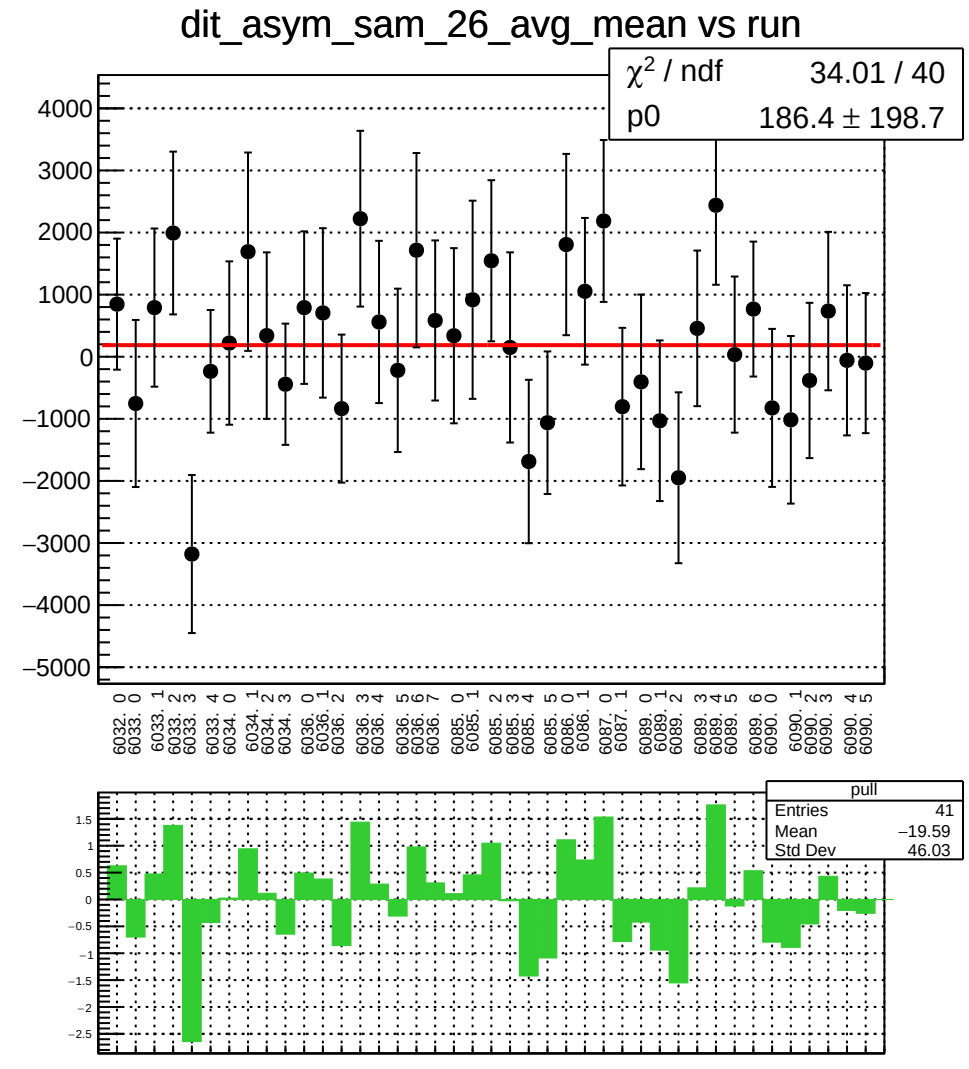

pull1D
Entries 41
Mean −0.009613
Std Dev 1.145
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

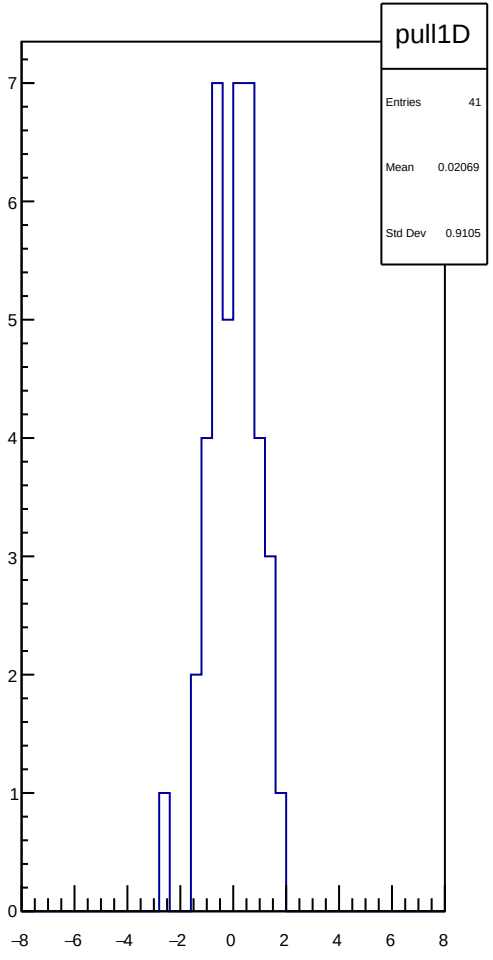

asym_sam_15_avg_correction_rms vs run
χ² / ndf 3.22e+04 / 40
p0 349.4 ± 0.3947
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

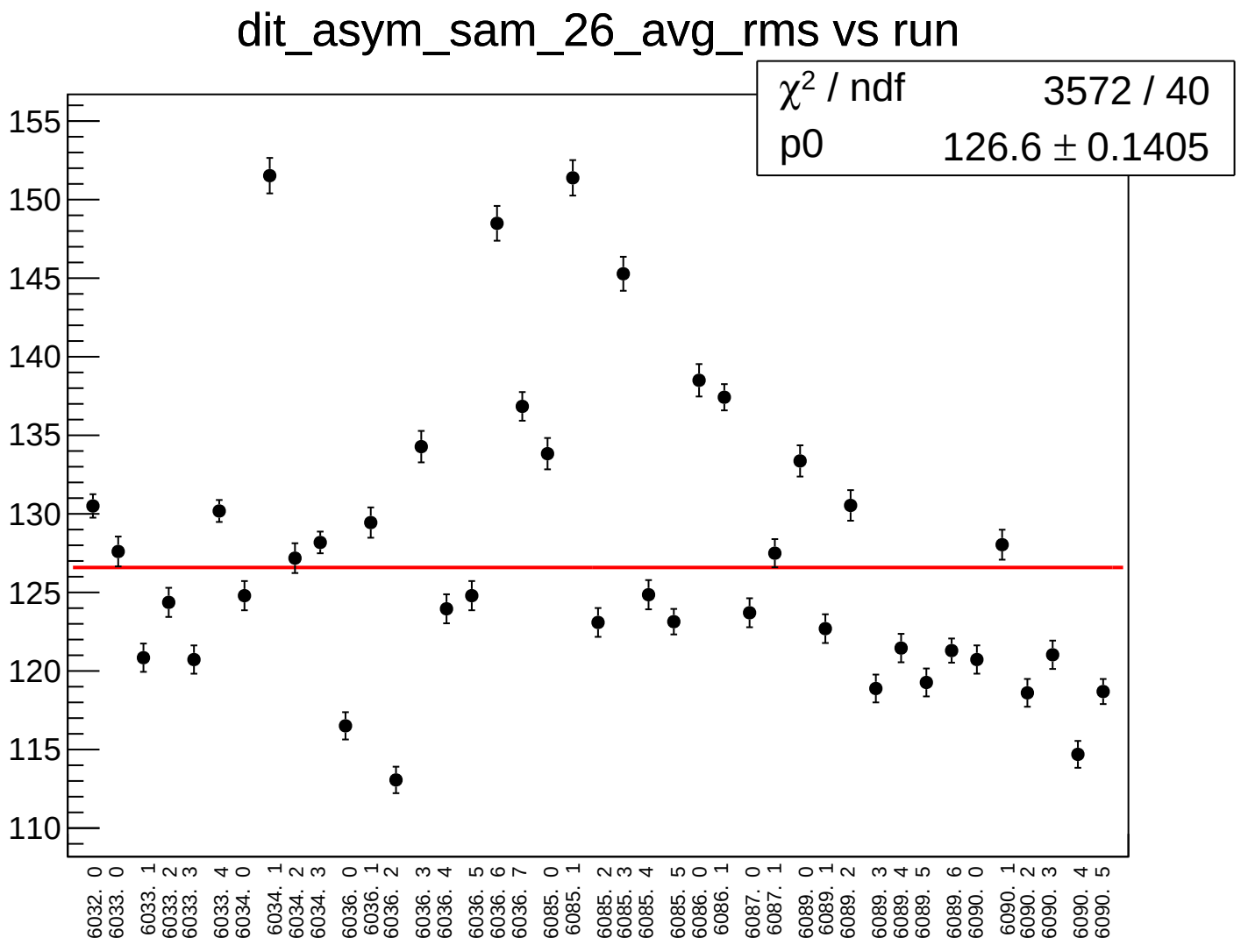

asym_sam_15_avg_mean vs run
χ² / ndf 51.86 / 40
p0 1247 ± 554
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 33.46
Std Dev 35.64
2
1
0
−1
−2

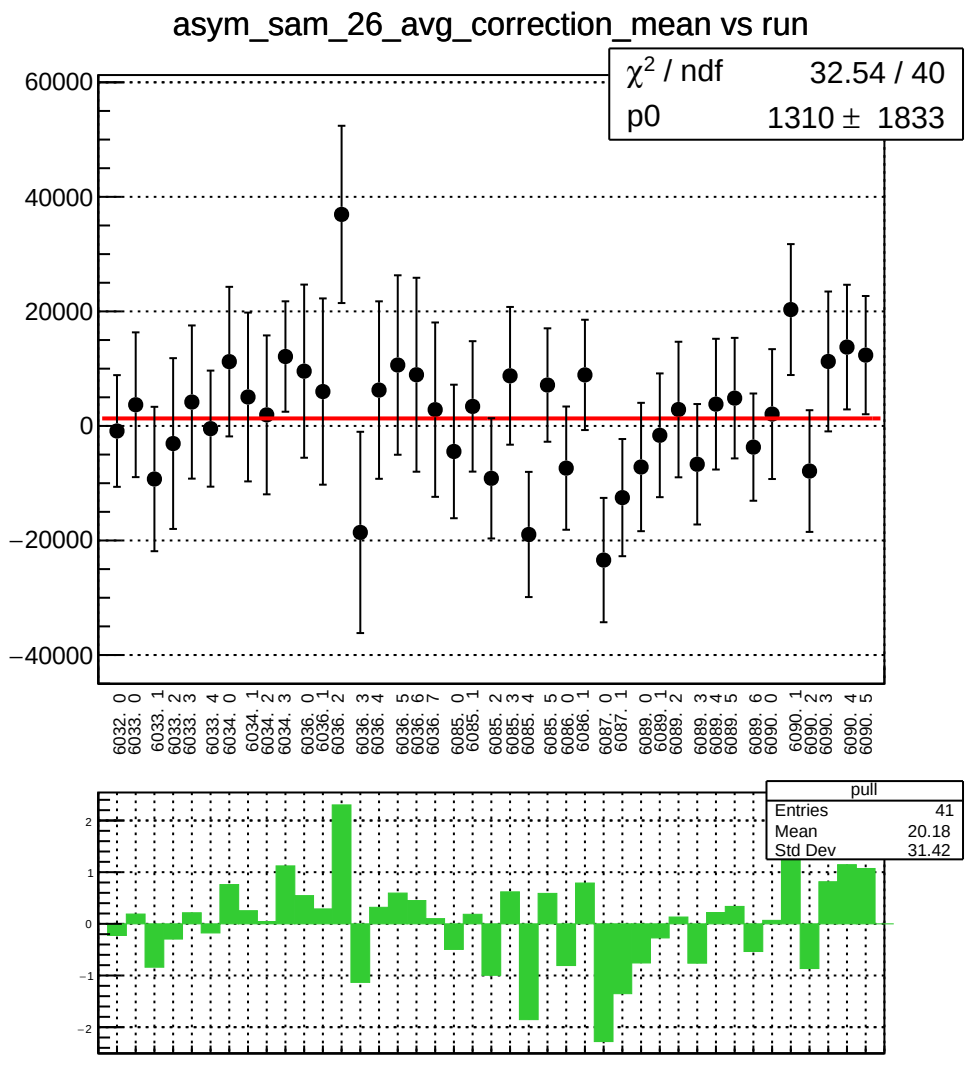

pull1D
Entries 41
Mean 0.01097
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

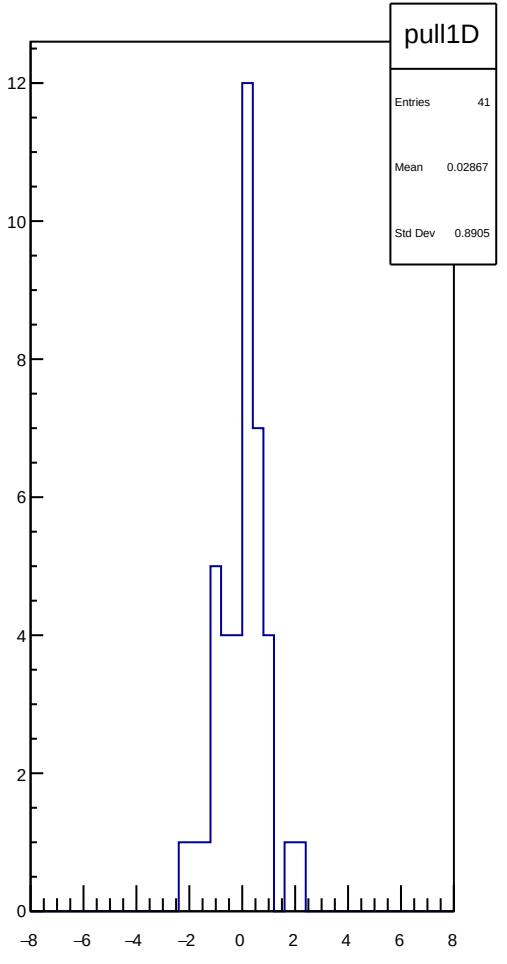

asym_sam_15_avg_rms vs run
χ² / ndf 3.246e+04 / 40
p0 346.7 ± 0.3917
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

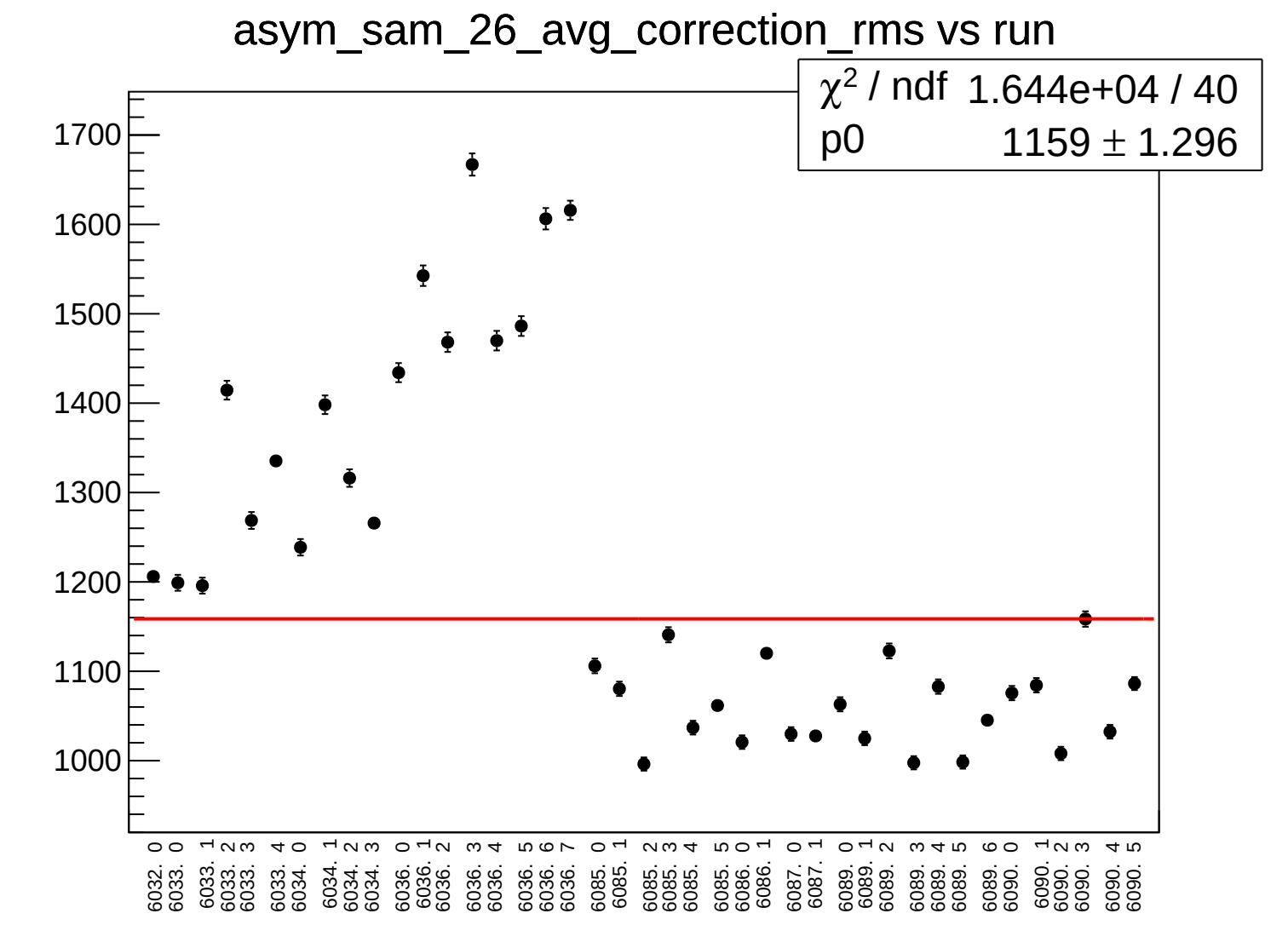

dit_asym_sam_26_avg_mean vs run
χ² / ndf 34.01 / 40
p0 186.4 ± 198.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −19.59
Std Dev 46.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

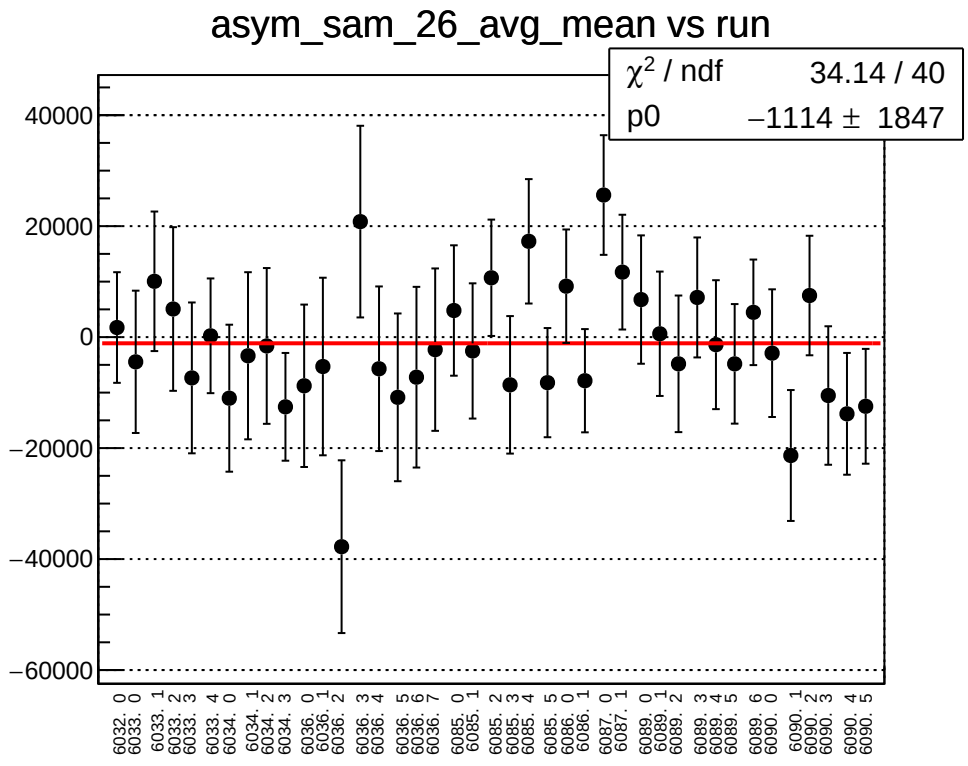

pull1D
Entries 41
Mean 0.02069
Std Dev 0.9105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

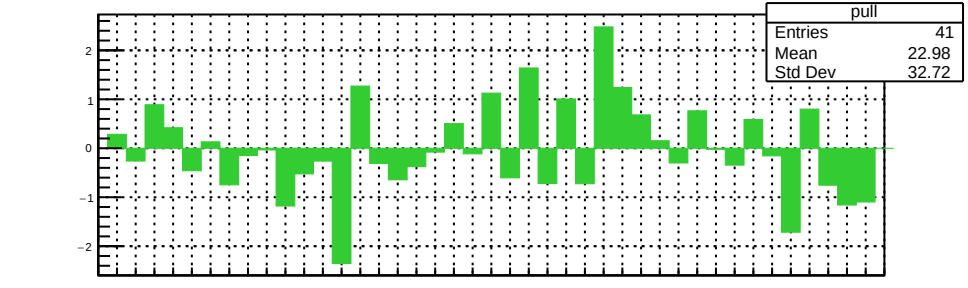

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3572 / 40
p0 126.6 ± 0.1405
155
150
145
140
135
130
125
120
115
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

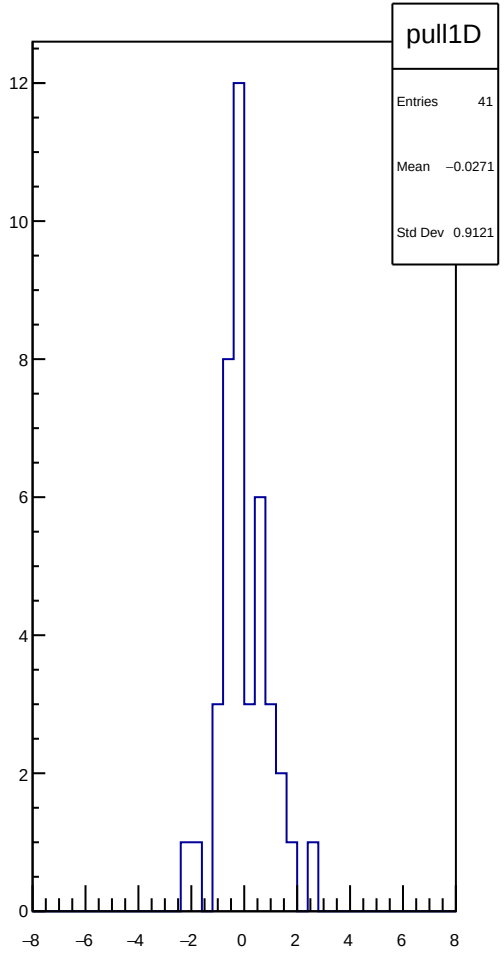

asym_sam_26_avg_correction_mean vs run
χ² / ndf 32.54 / 40
p0 1310 ± 1833
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 20.18
Std Dev 31.42
2
1
0
−1
−2

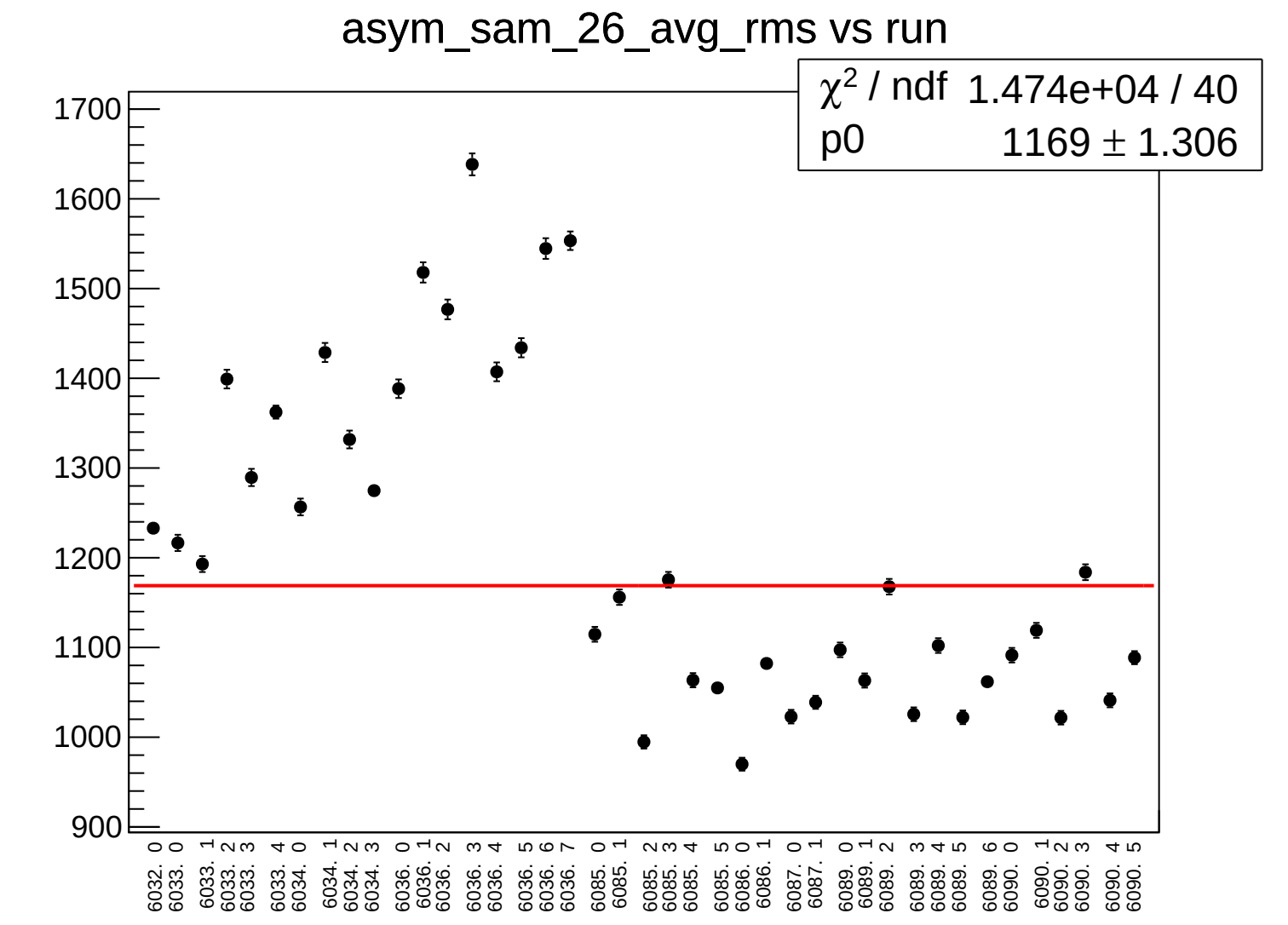

pull1D
Entries 41
Mean 0.02867
Std Dev 0.8905
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

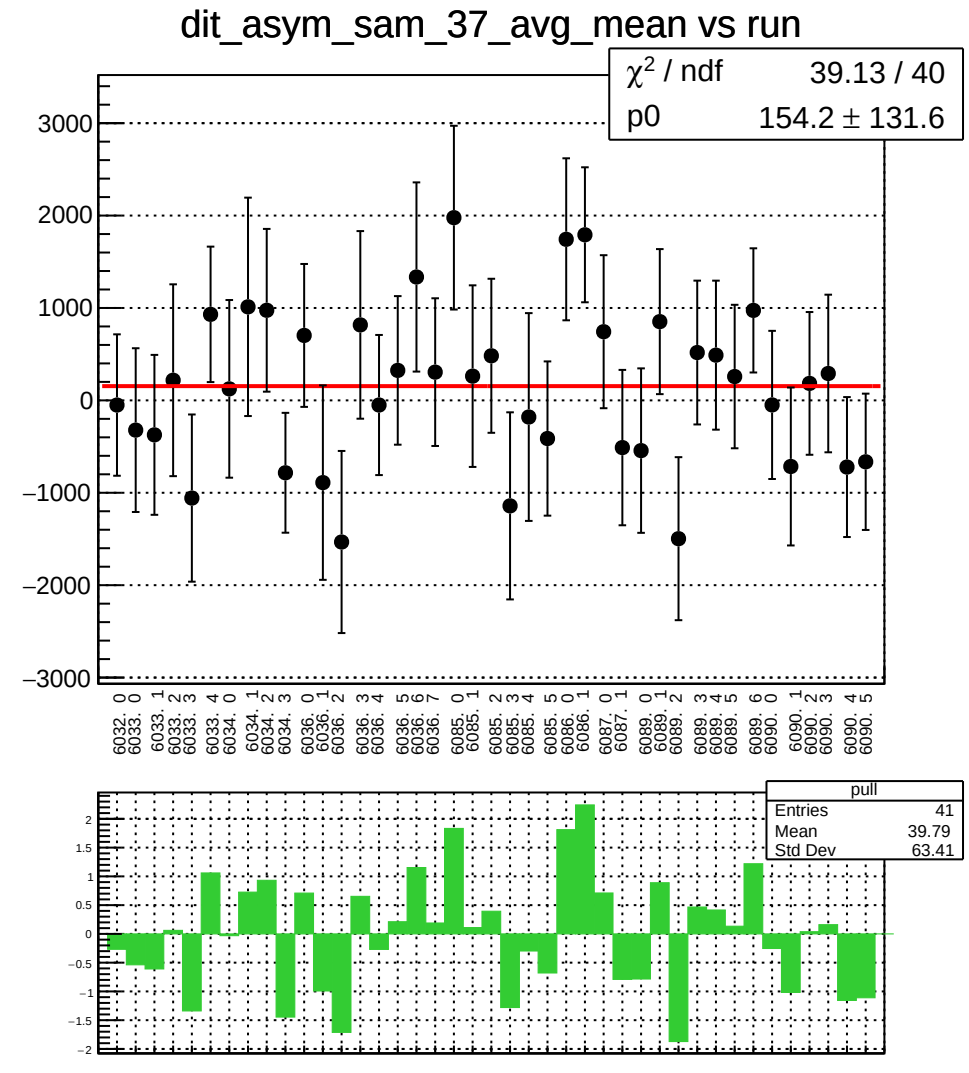

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.644e+04 / 40
p0 1159 ± 1.296
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

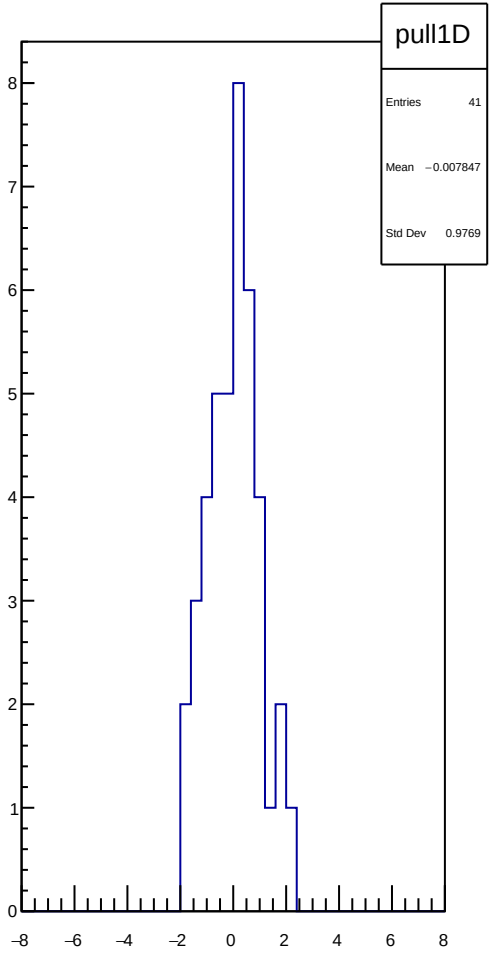

asym_sam_26_avg_mean vs run
χ² / ndf 34.14 / 40
p0 −1114 ± 1847
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

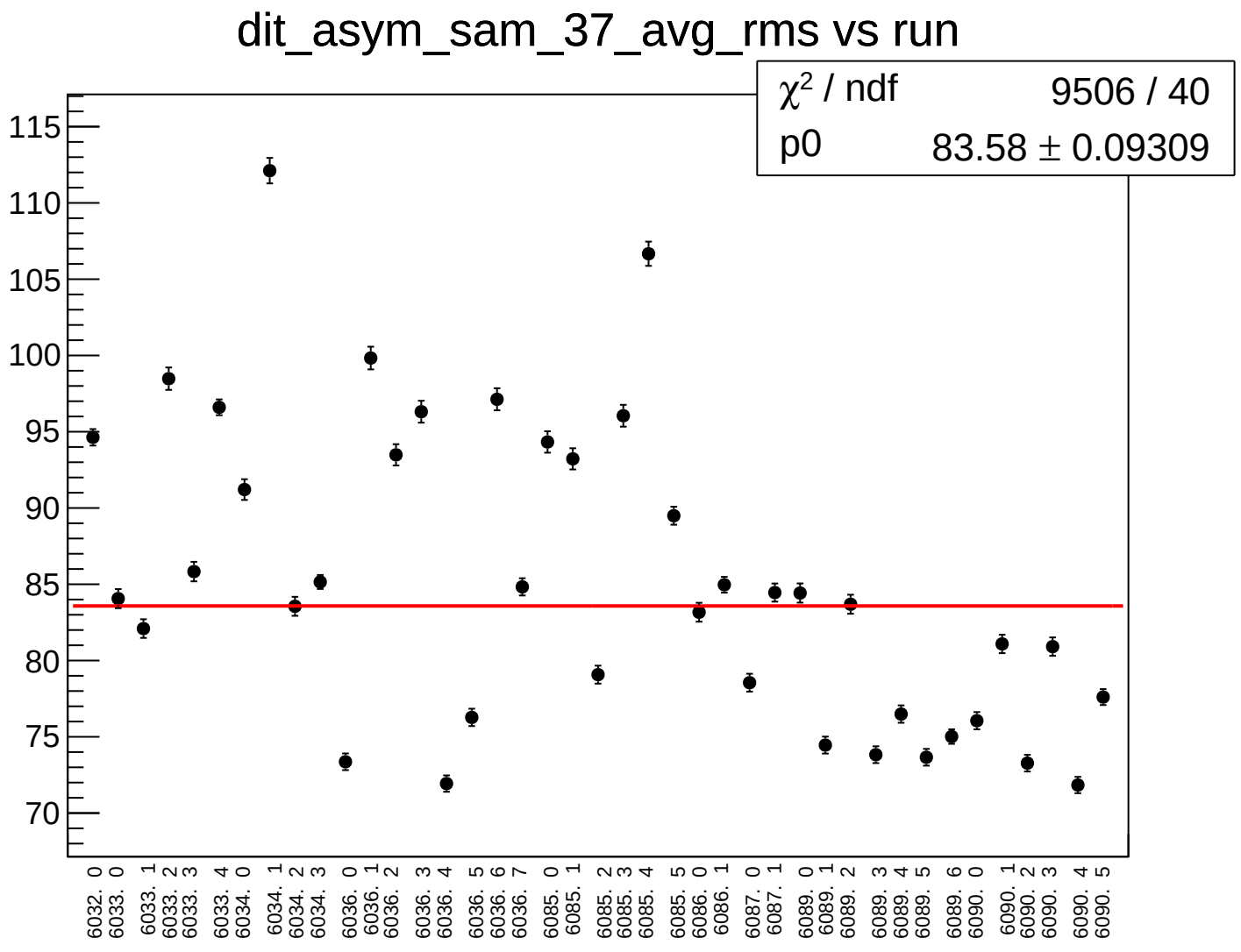

pull
Entries 41
Mean 22.98
Std Dev 32.72
2
1
0
−1
−2

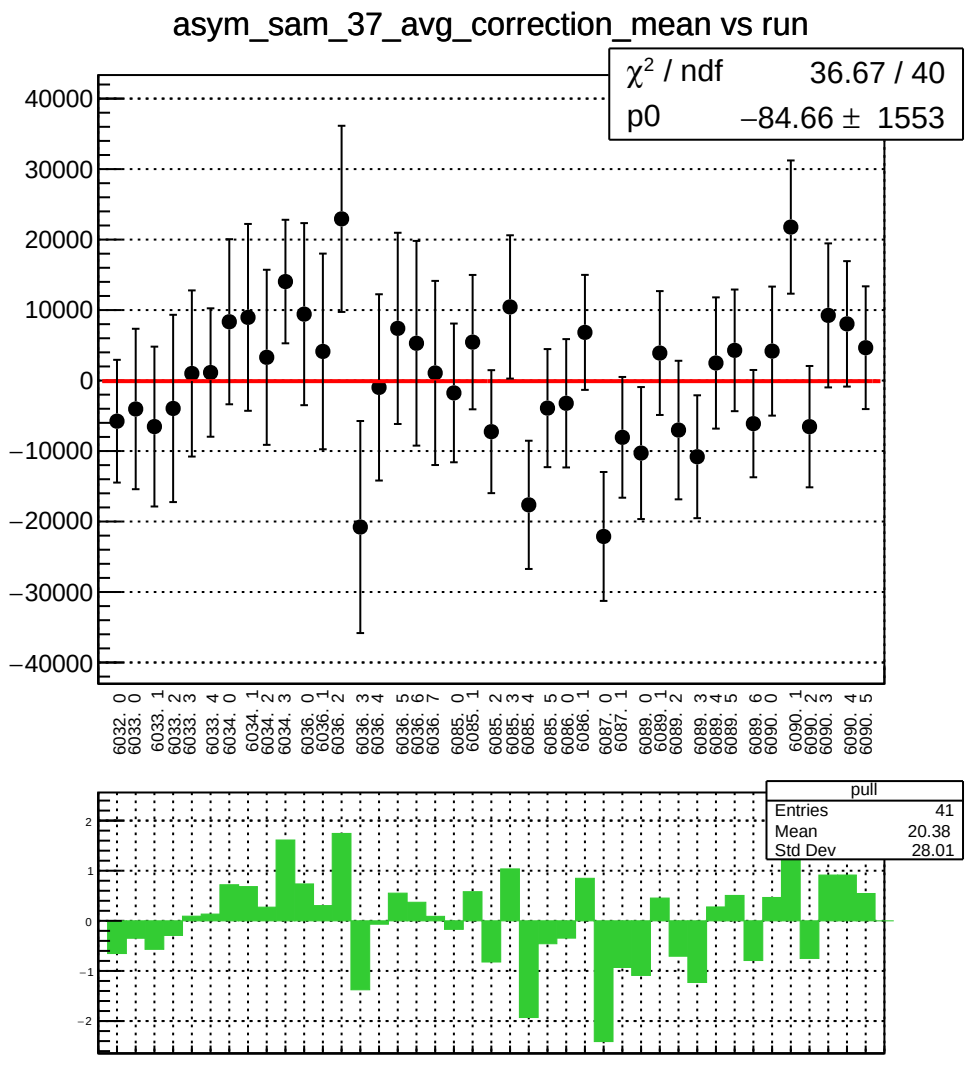

pull1D
Entries 41
Mean −0.0271
Std Dev 0.9121
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

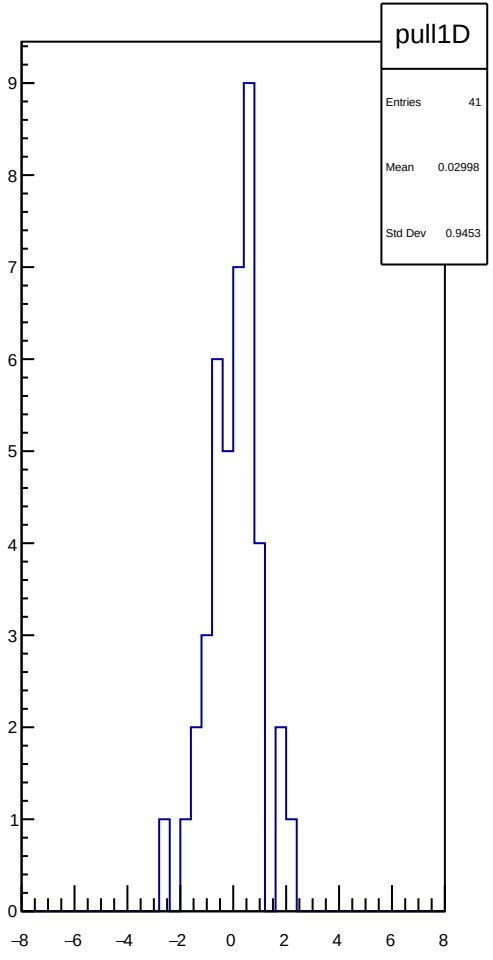

asym_sam_26_avg_rms vs run
χ² / ndf 1.474e+04 / 40
p0 1169 ± 1.306
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

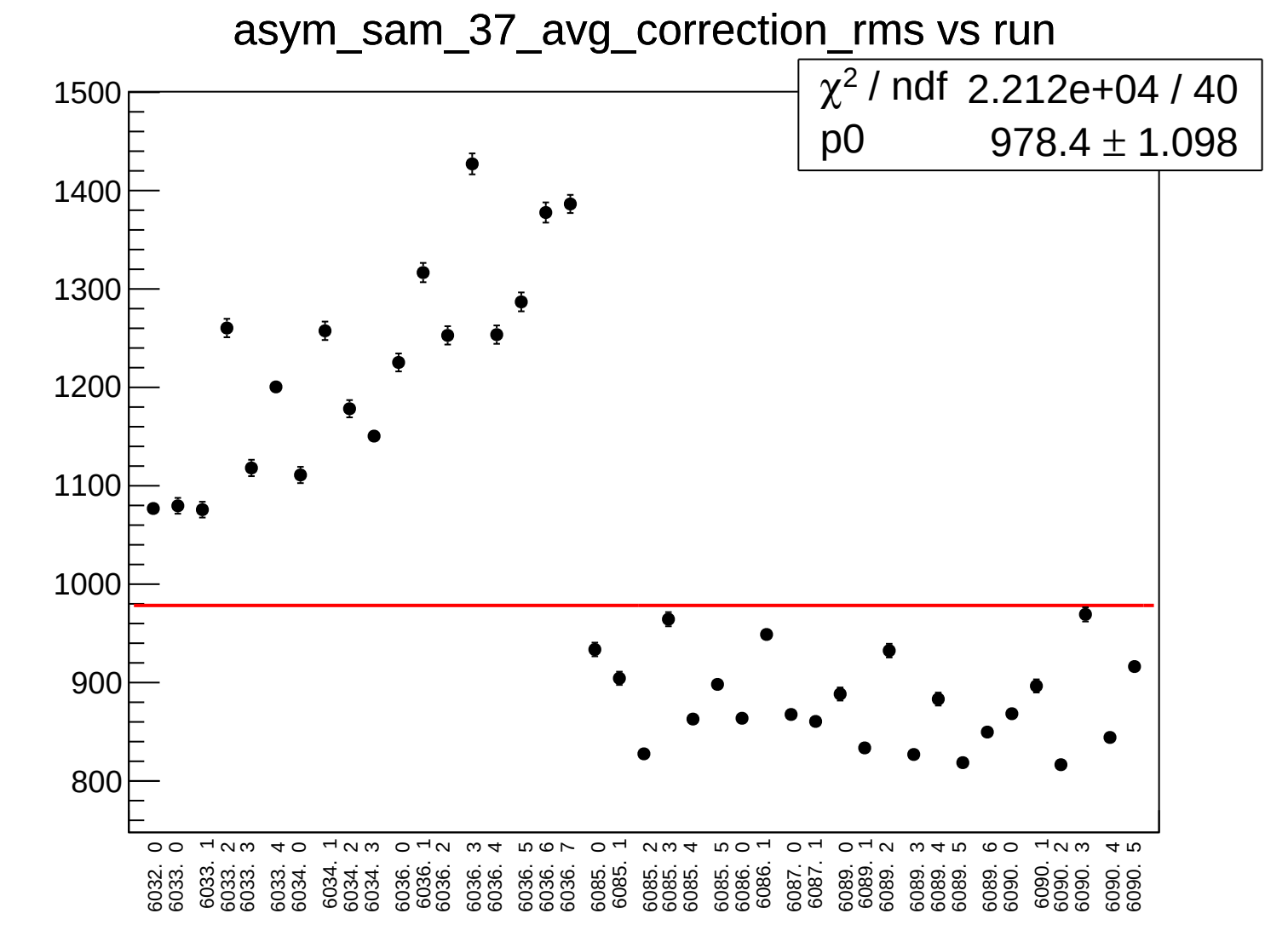

dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 39.13 / 40
p0 154.2 ± 131.6
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 39.79
Std Dev 63.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

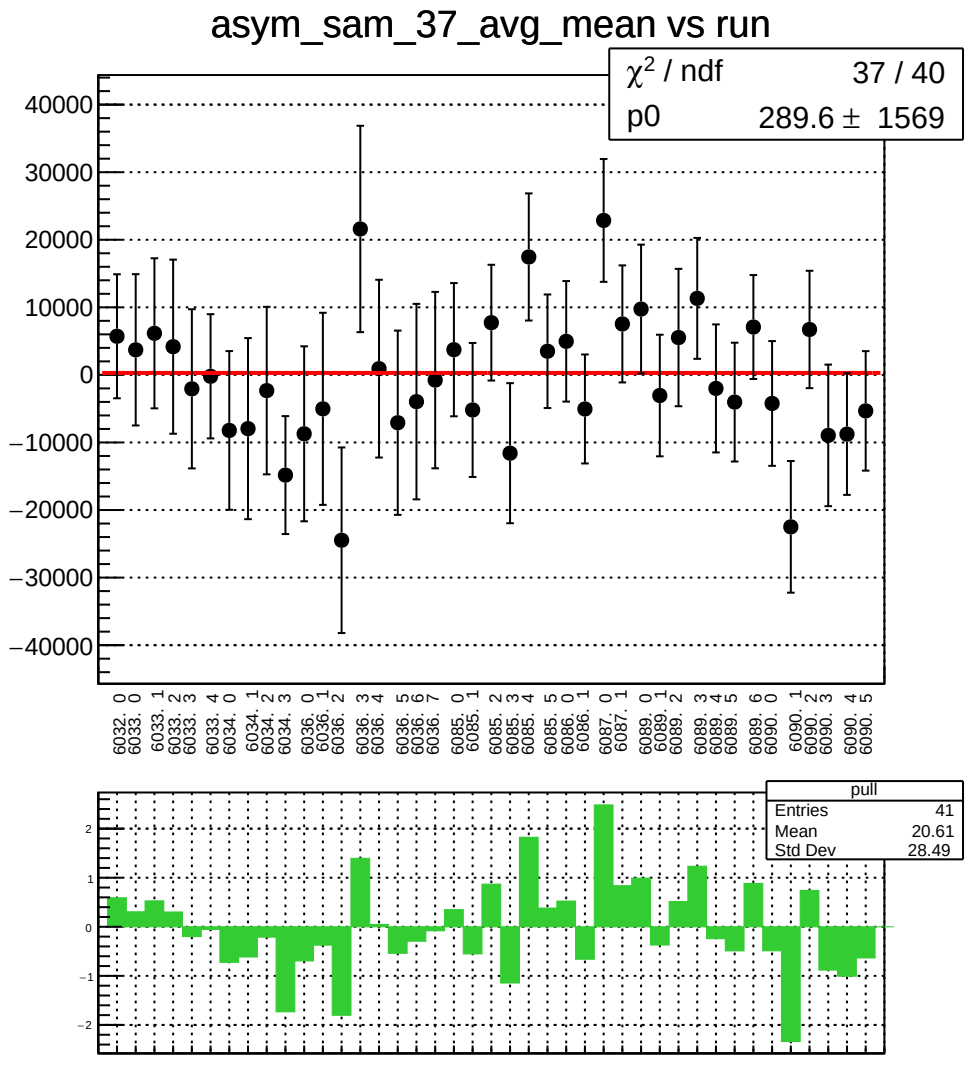

pull1D
Entries 41
Mean −0.007847
Std Dev 0.9769
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

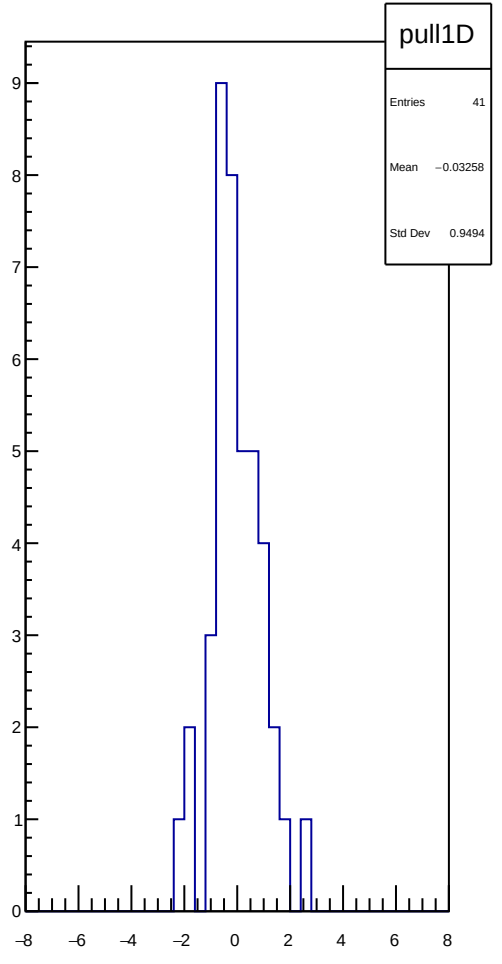

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 9506 / 40
p0 83.58 ± 0.09309
115
110
105
100
95
90
85
80
75
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

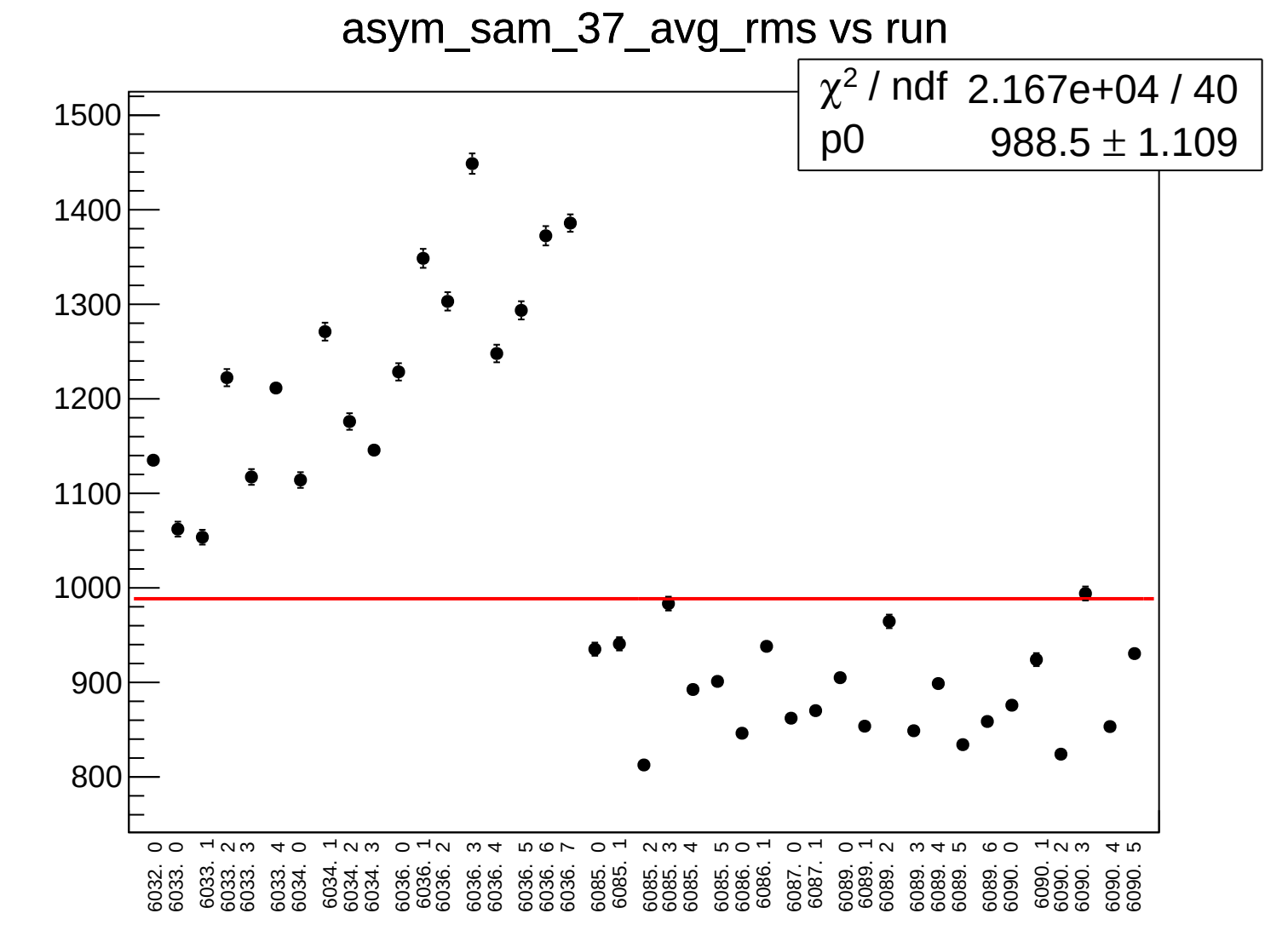

asym_sam_37_avg_correction_mean vs run
χ² / ndf 36.67 / 40
p0 −84.66 ± 1553
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 20.38
Std Dev 28.01
2
1
0
−1
−2

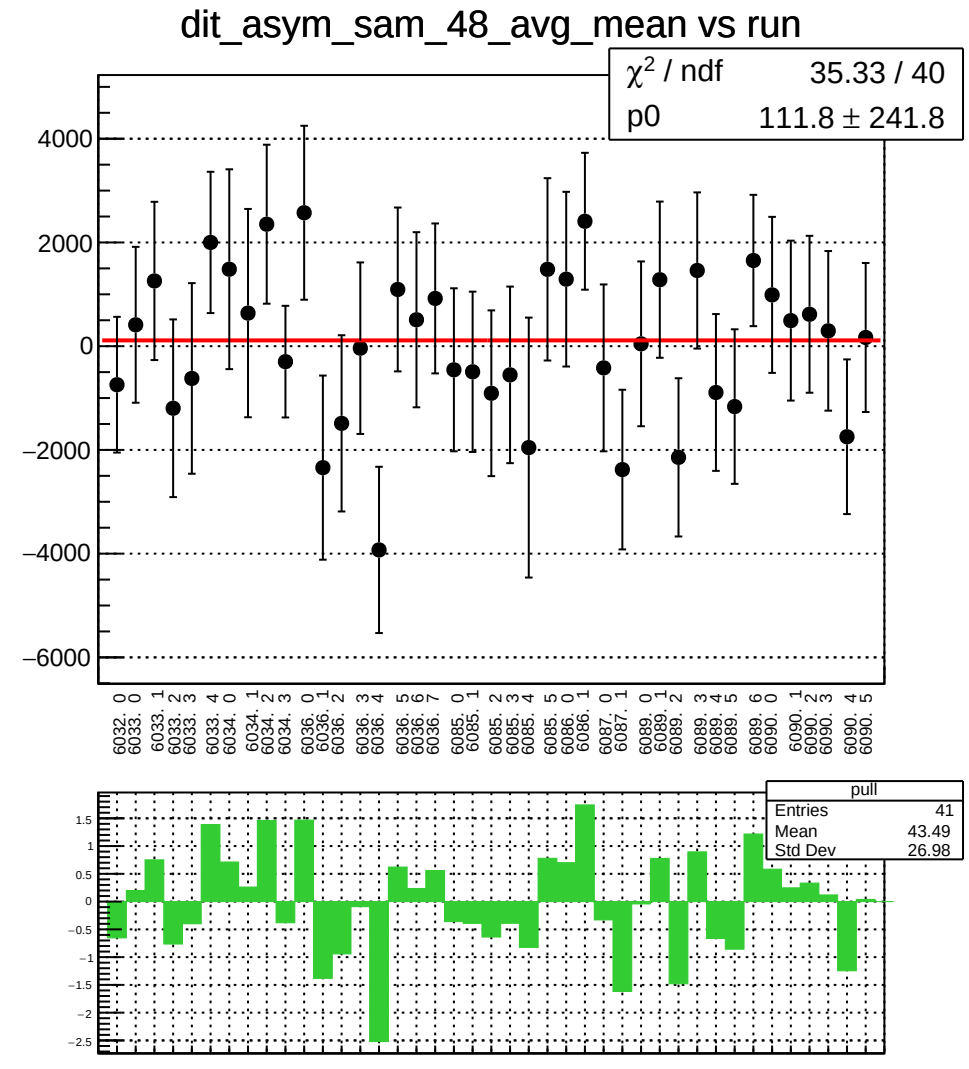

pull1D
Entries 41
Mean 0.02998
Std Dev 0.9453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

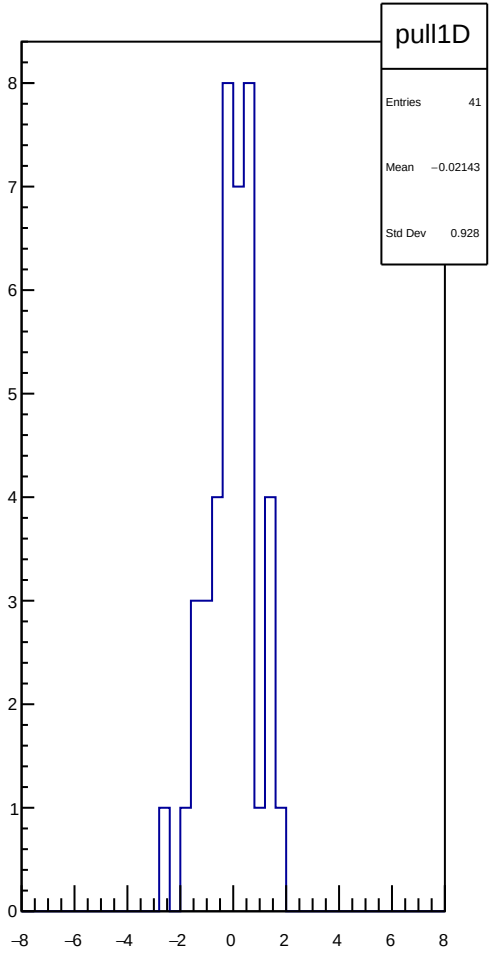

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2.212e+04 / 40
p0 978.4 ± 1.098
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

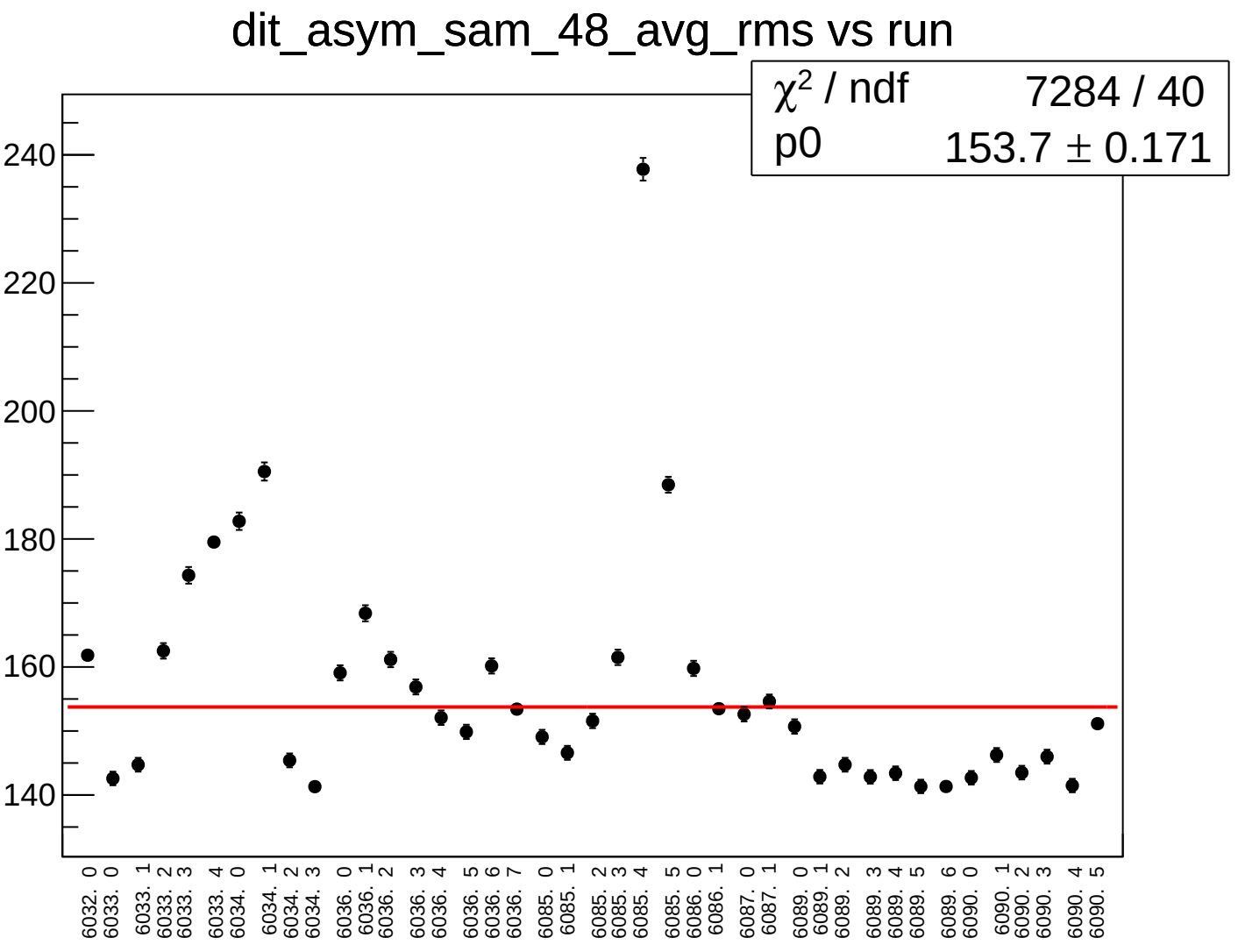

asym_sam_37_avg_mean vs run
χ² / ndf 37 / 40
p0 289.6 ± 1569
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 20.61
Std Dev 28.49
2
1
0
−1
−2

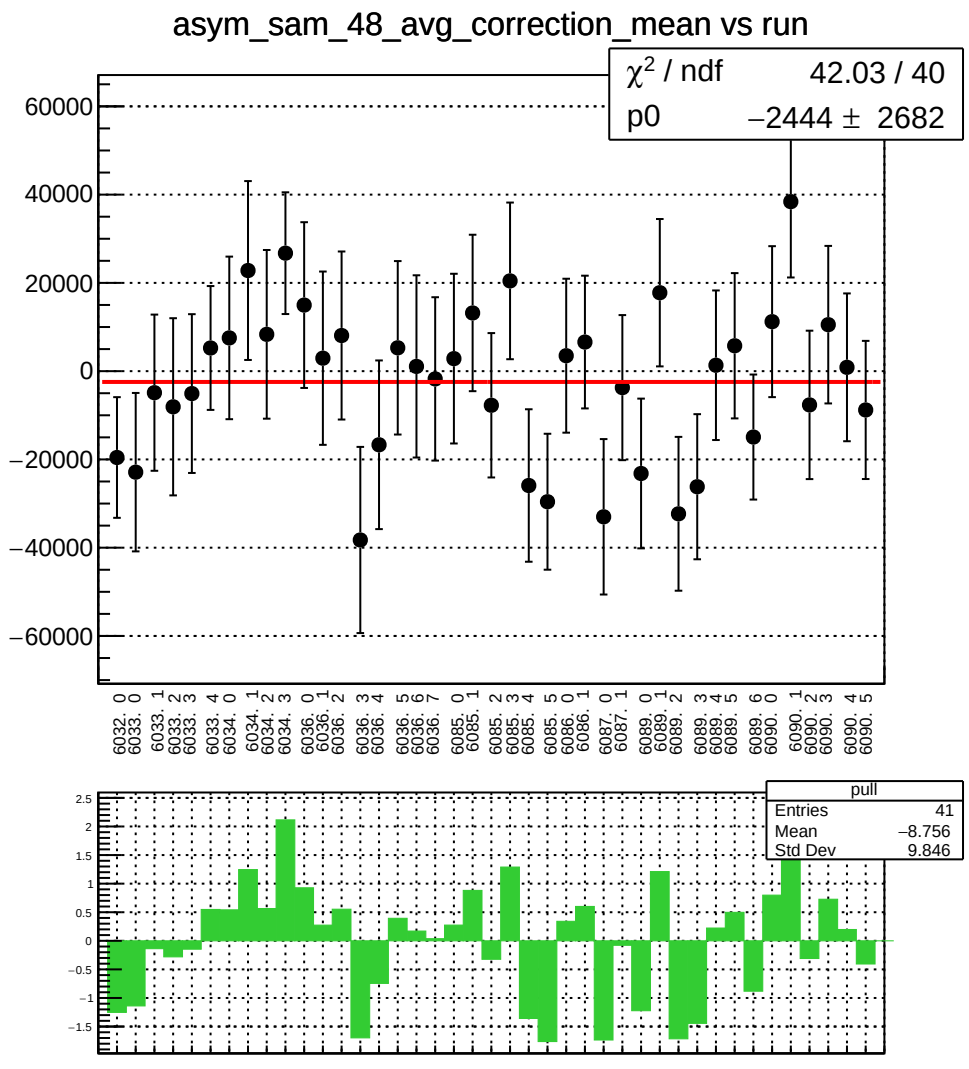

pull1D
Entries 41
Mean −0.03258
Std Dev 0.9494
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

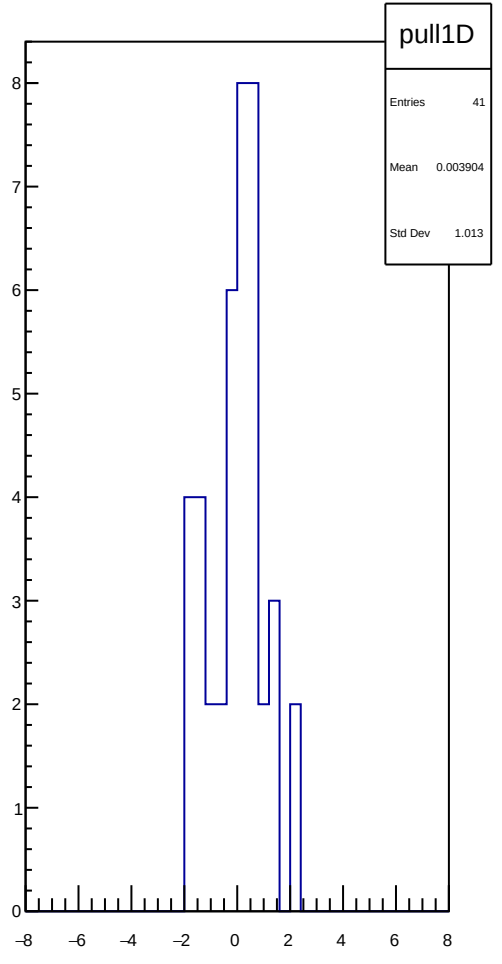

asym_sam_37_avg_rms vs run
χ² / ndf 2.167e+04 / 40
p0 988.5 ± 1.109
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

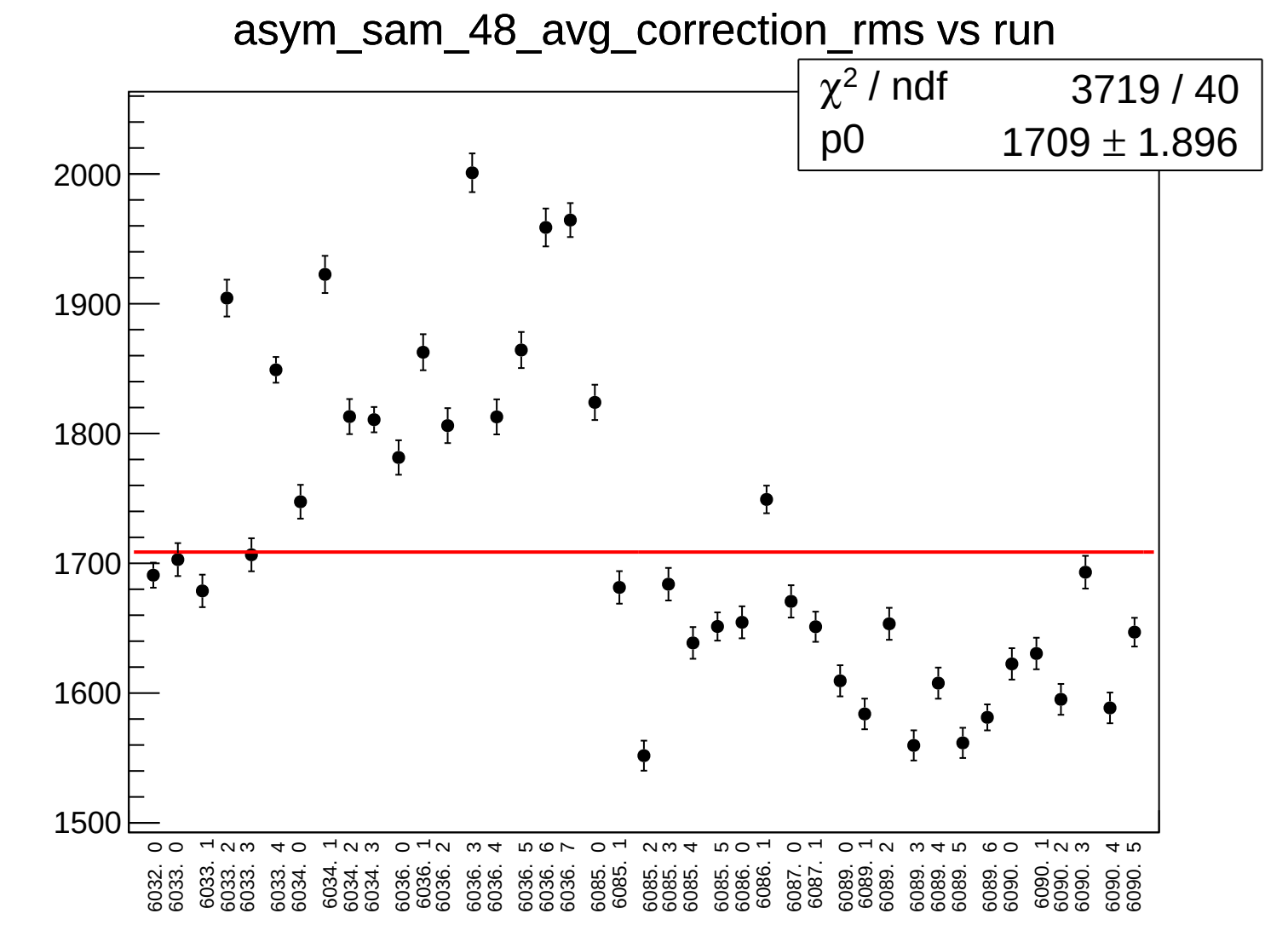

dit_asym_sam_48_avg_mean vs run
χ² / ndf 35.33 / 40
p0 111.8 ± 241.8
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 43.49
Std Dev 26.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

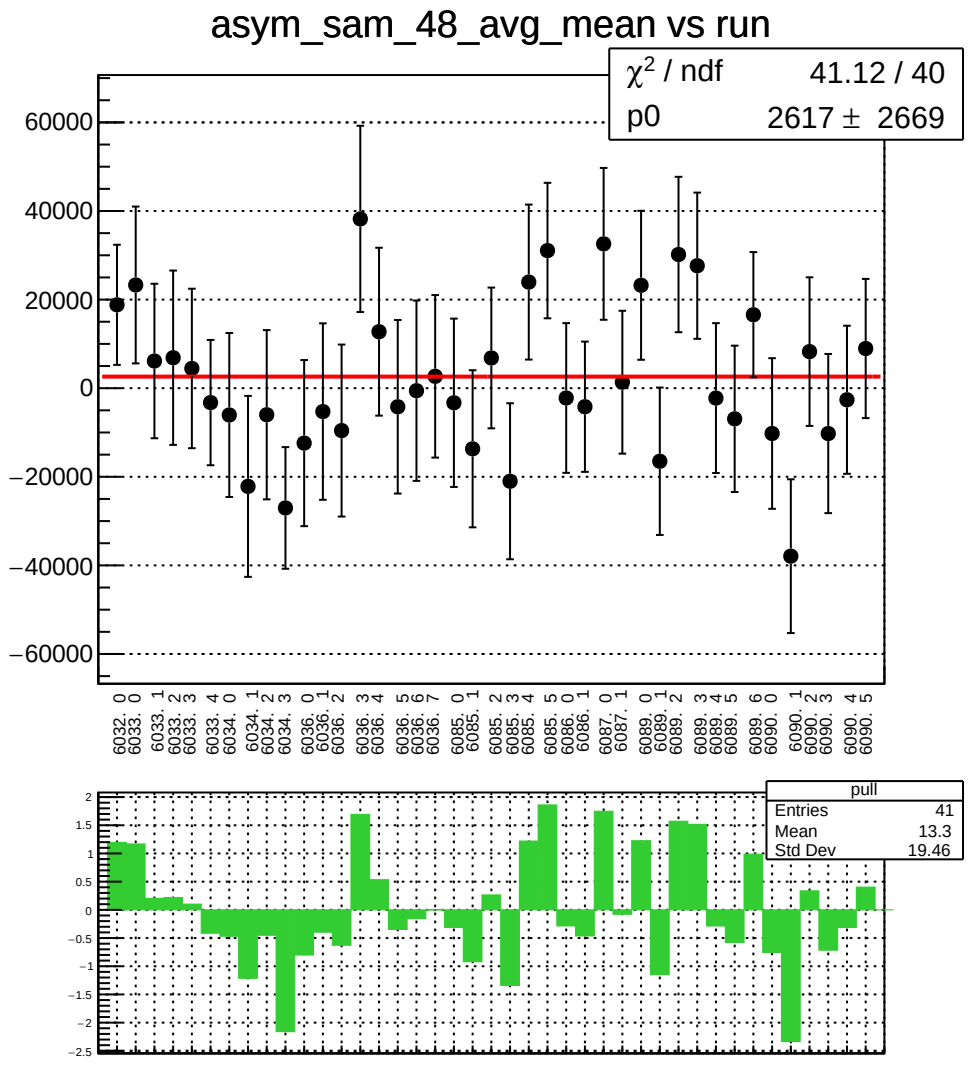

pull1D
Entries 41
Mean −0.02143
Std Dev 0.928
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

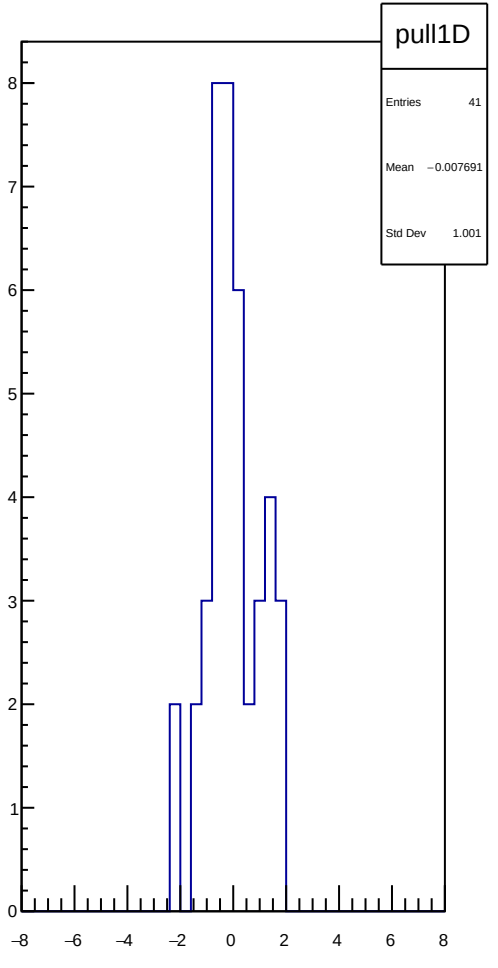

dit_asym_sam_48_avg_rms vs run
χ² / ndf 7284 / 40
p0 153.7 ± 0.171
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

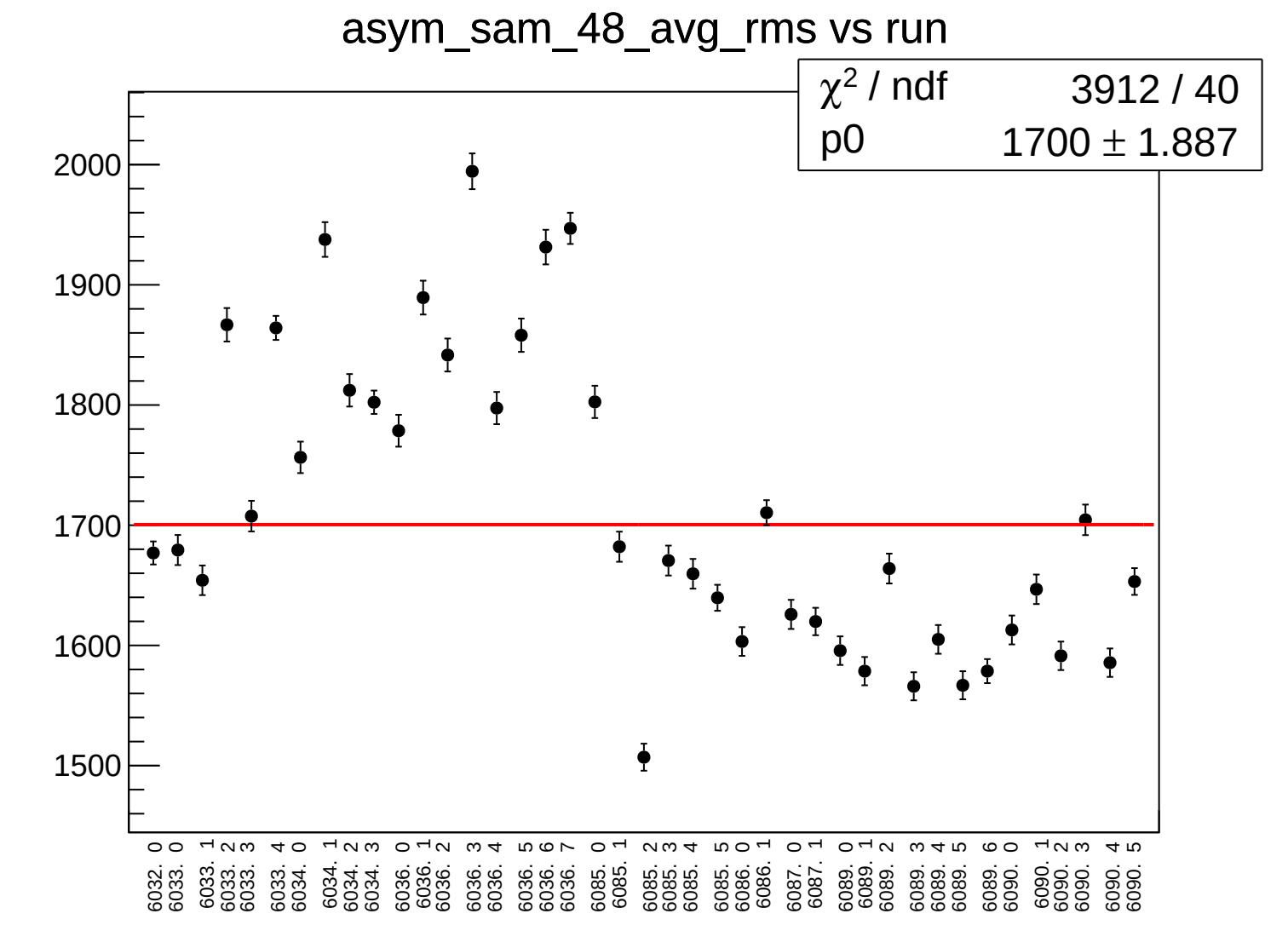

asym_sam_48_avg_correction_mean vs run
χ² / ndf 42.03 / 40
p0 −2444 ± 2682
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −8.756
Std Dev 9.846
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

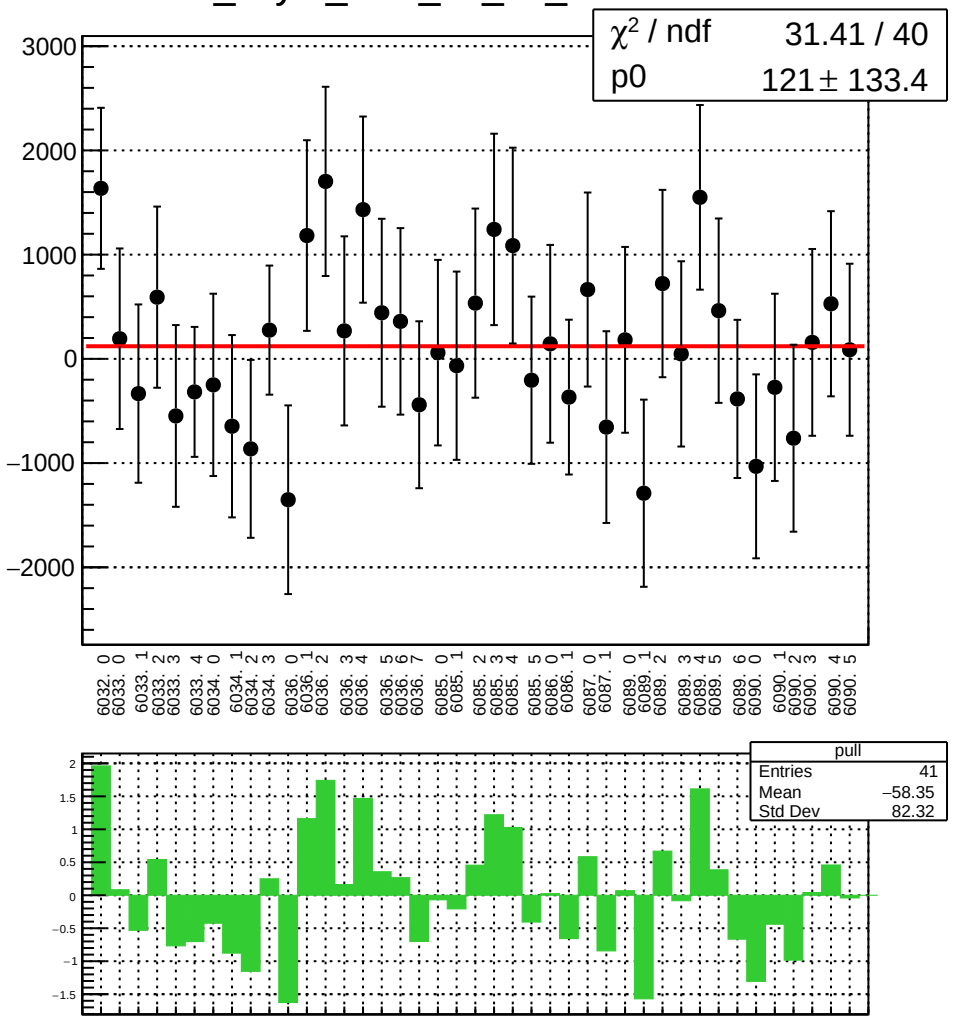

pull1D
Entries 41
Mean 0.003904
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

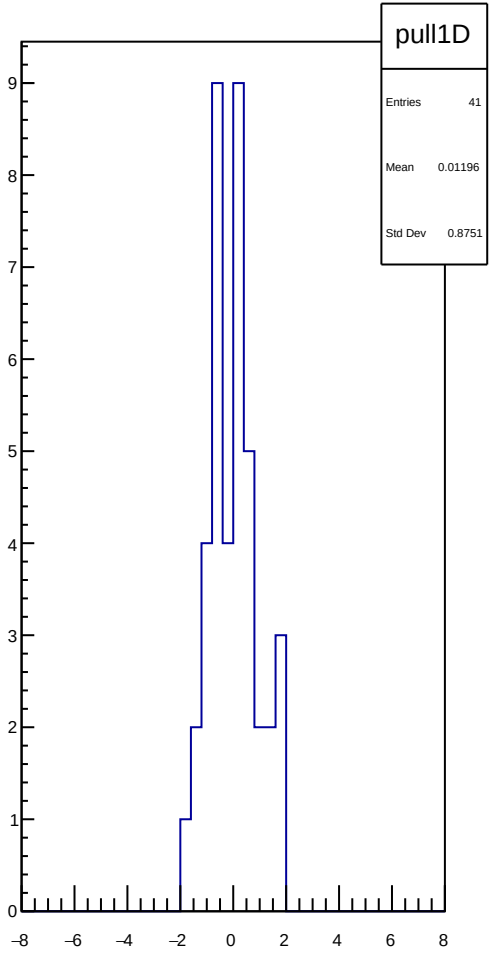

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3719 / 40
p0 1709 ± 1.896
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

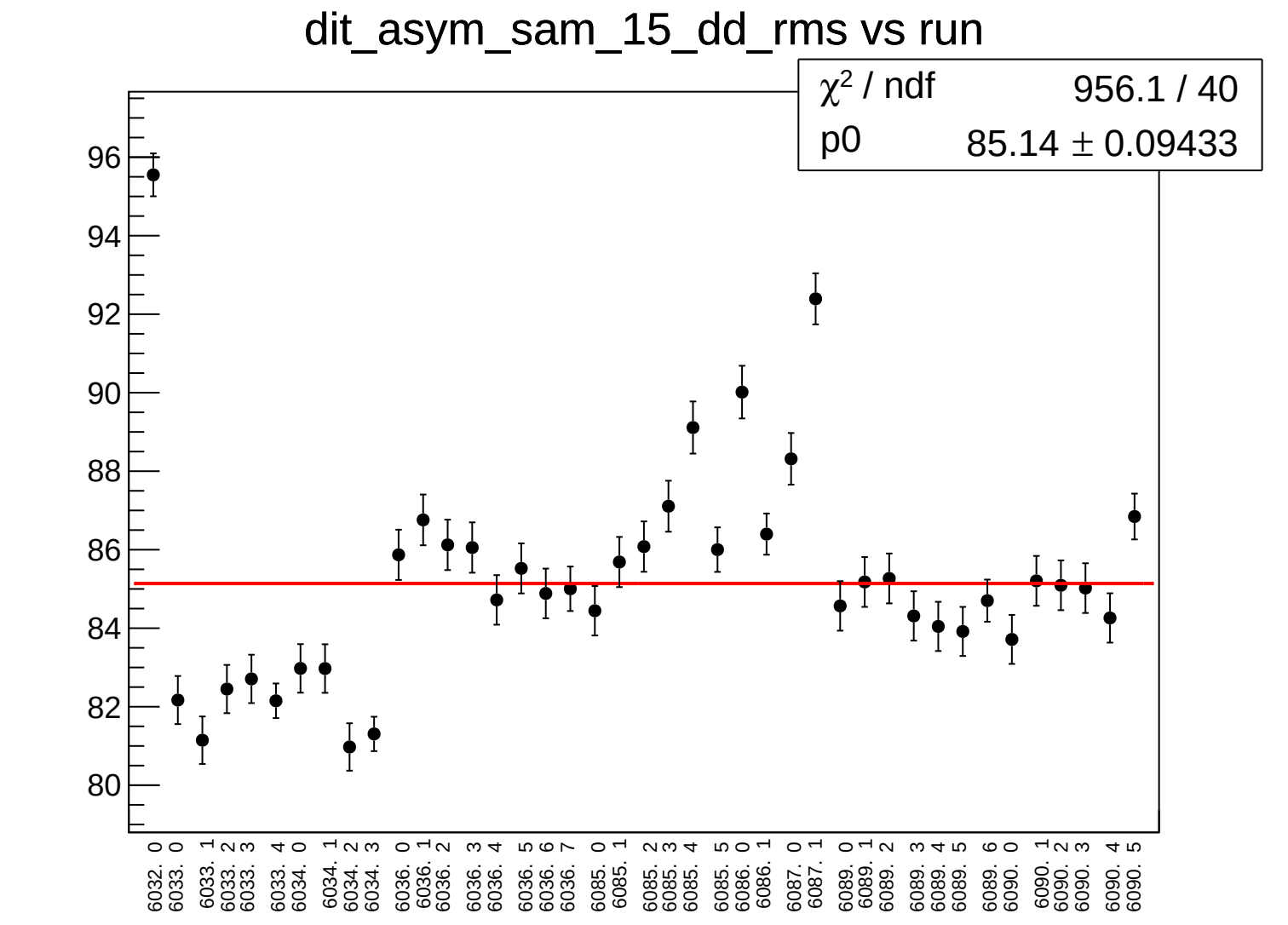

asym_sam_48_avg_mean vs run
χ² / ndf 41.12 / 40
p0 2617 ± 2669
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 13.3
Std Dev 19.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

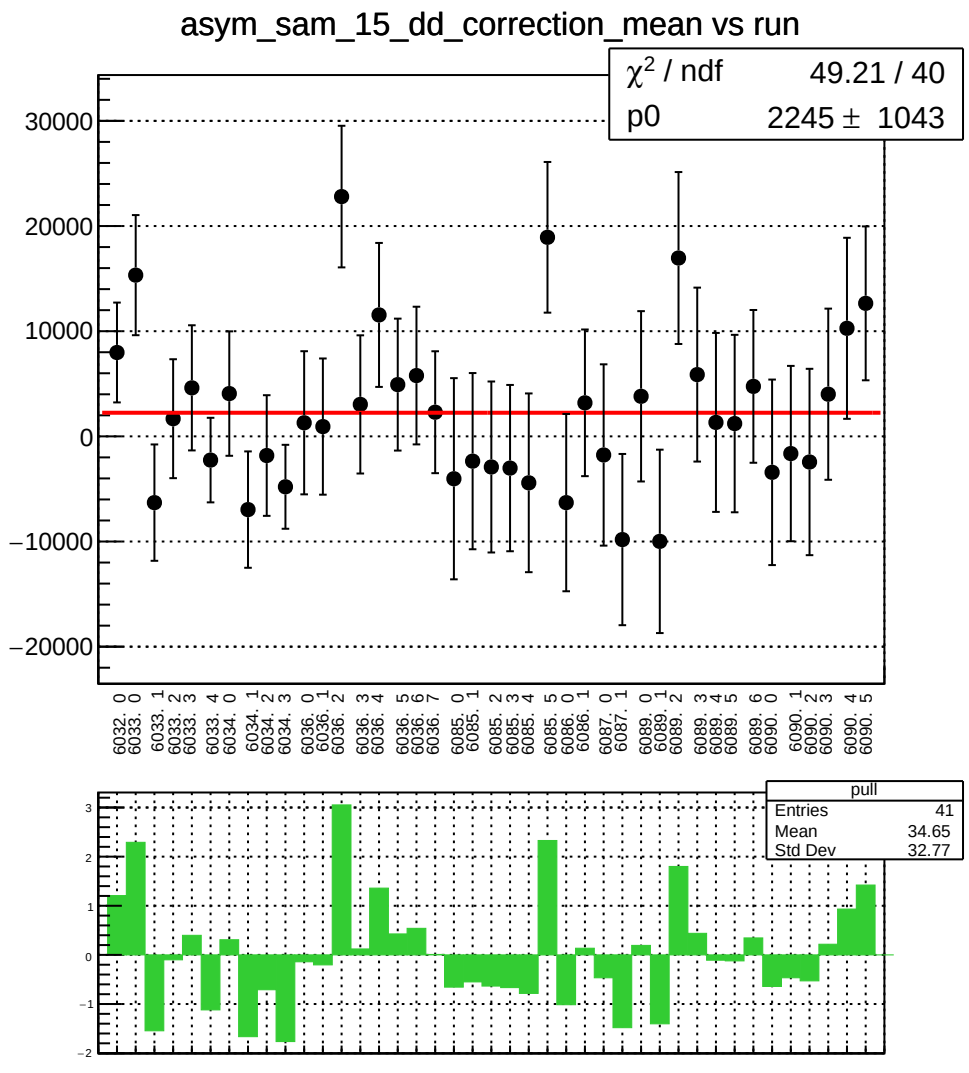

pull1D
Entries 41
Mean −0.007691
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

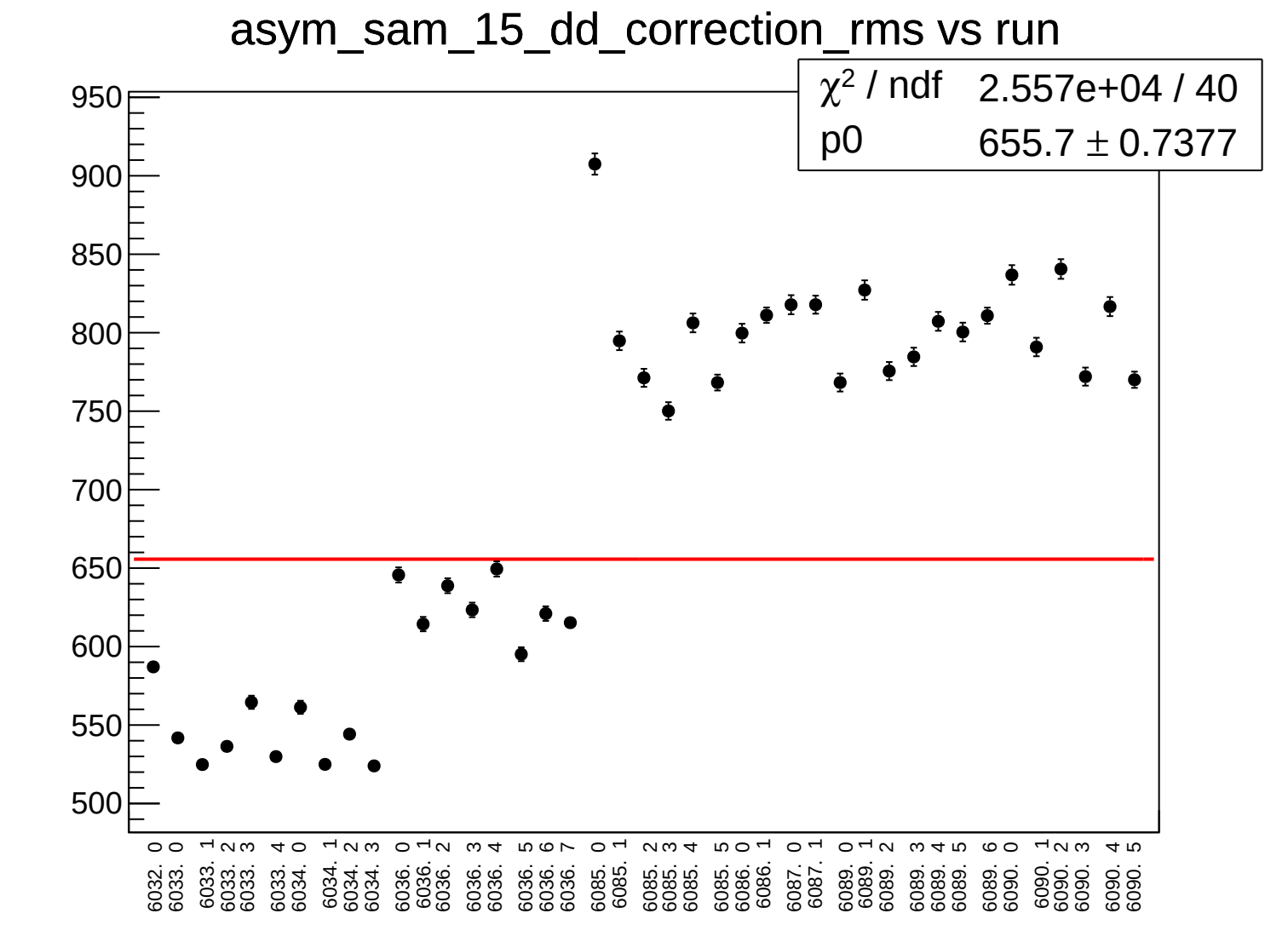

asym_sam_48_avg_rms vs run
χ² / ndf 3912 / 40
p0 1700 ± 1.887
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

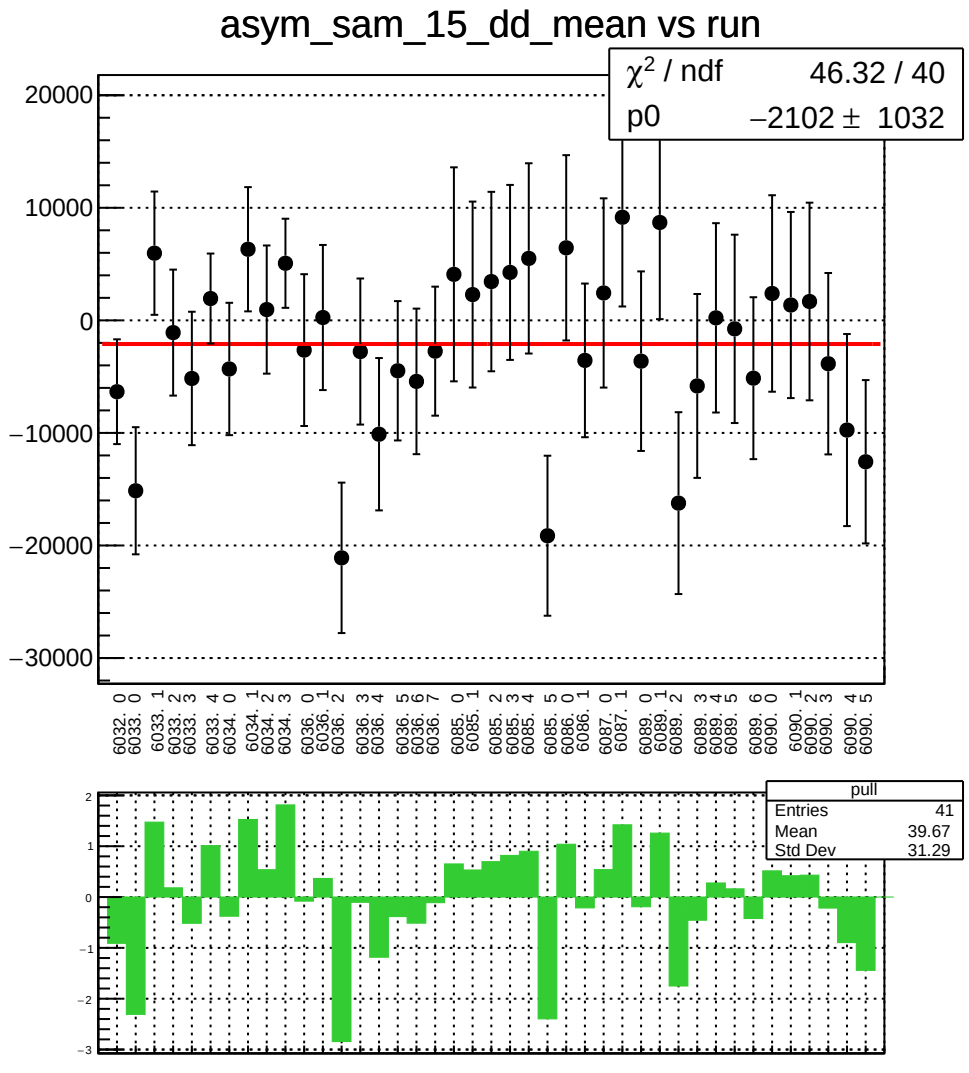

dit_asym_sam_15_dd_mean vs run
χ² / ndf 31.41 / 40
p0 121 ± 133.4
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −58.35
Std Dev 82.32
2
1.5
1
0.5
0
−0.5
−1
−1.5

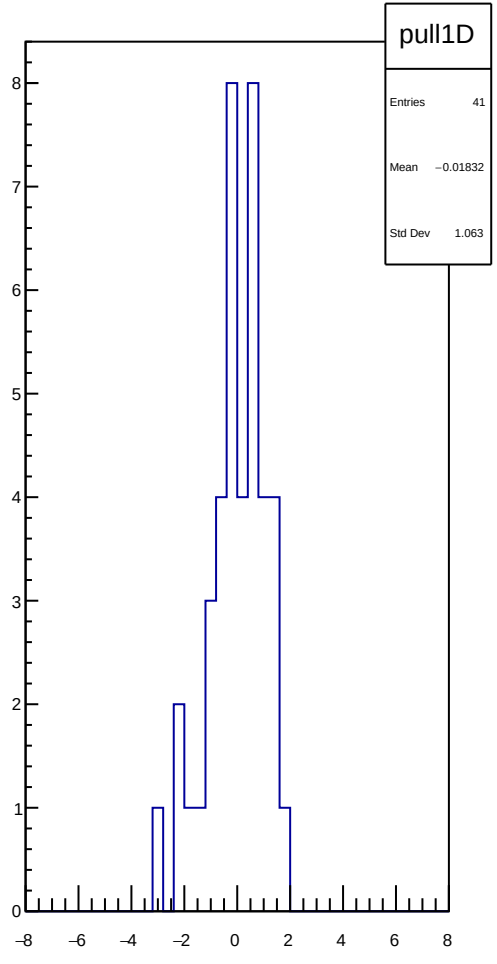

pull1D
Entries 41
Mean 0.01196
Std Dev 0.8751
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

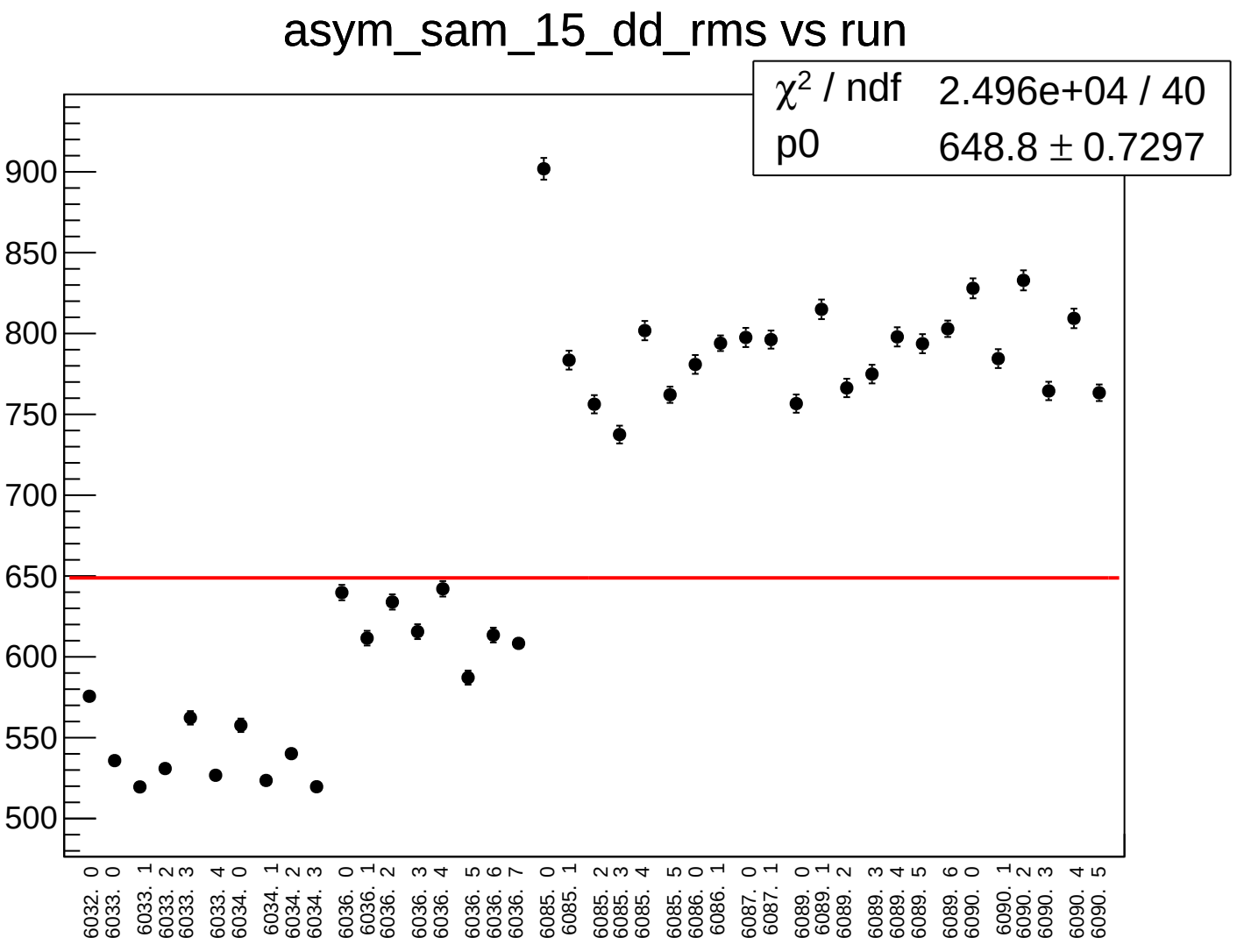

dit_asym_sam_15_dd_rms vs run
χ² / ndf 956.1 / 40
p0 85.14 ± 0.09433
96
94
92
90
88
86
84
82
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

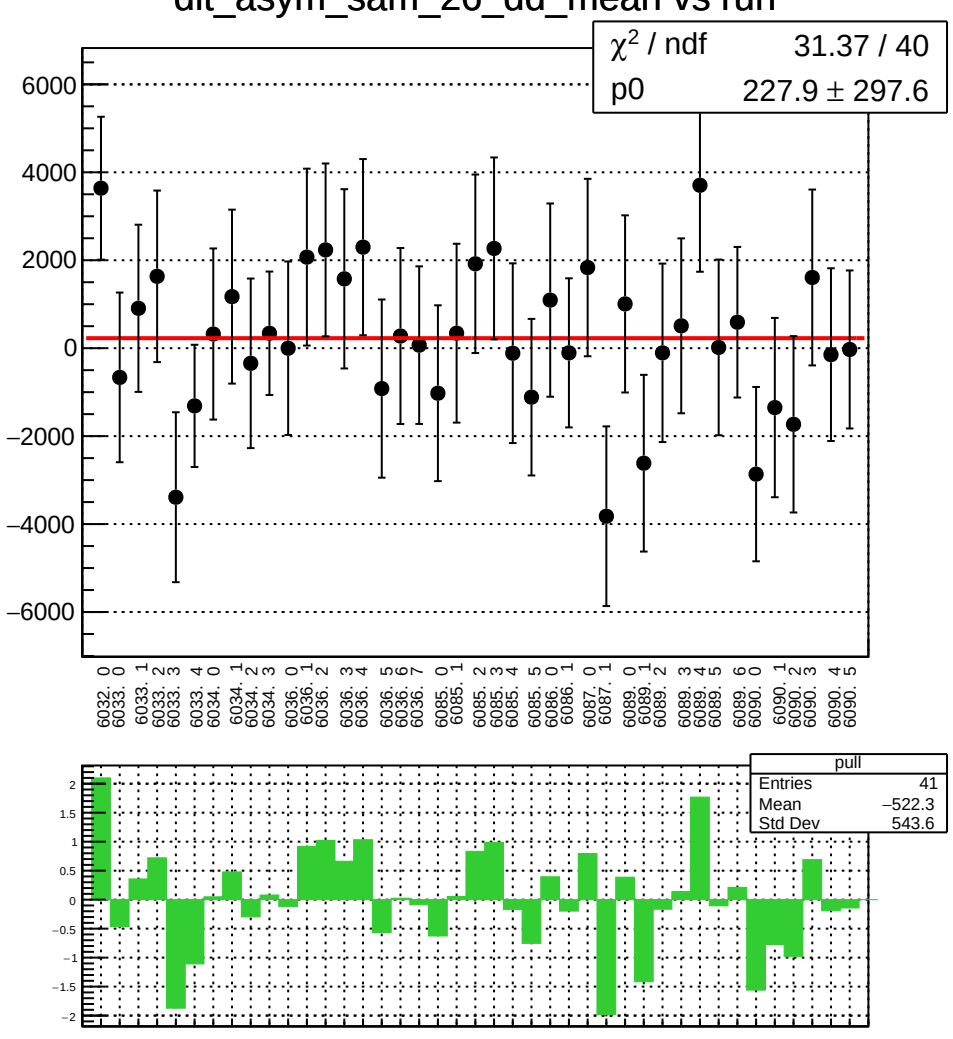

asym_sam_15_dd_correction_mean vs run
χ² / ndf 49.21 / 40
p0 2245 ± 1043
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 34.65
Std Dev 32.77
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01852
Std Dev 1.095
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

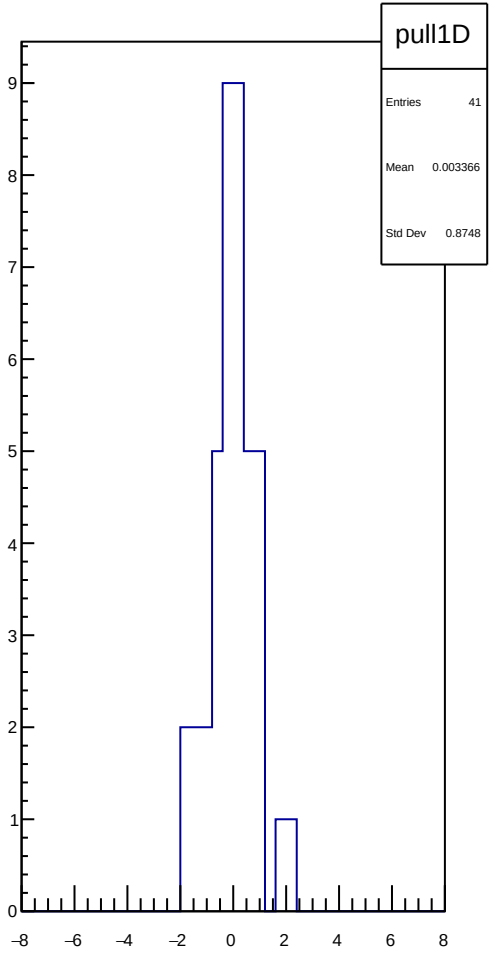

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.557e+04 / 40
p0 655.7 ± 0.7377
950
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

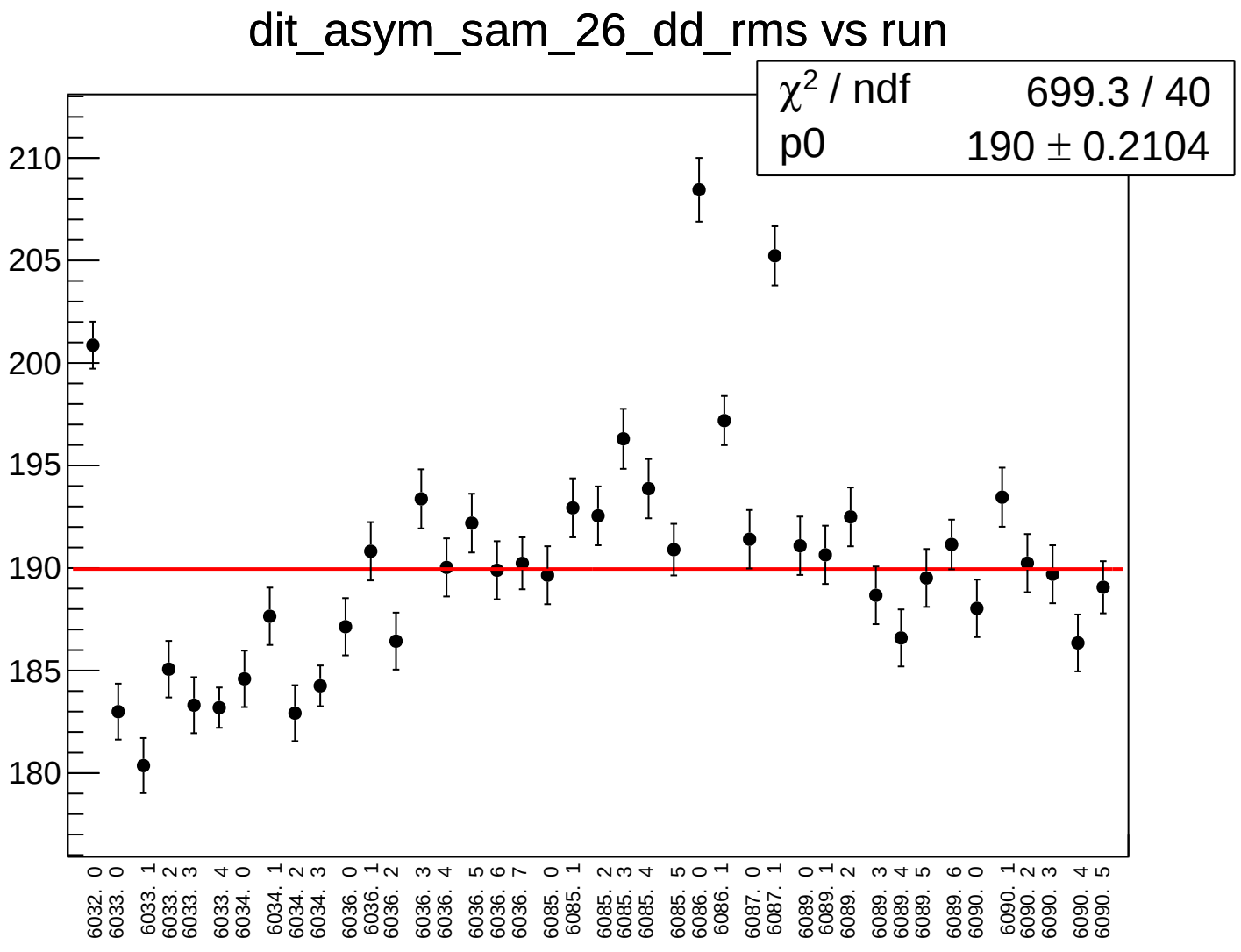

asym_sam_15_dd_mean vs run
χ² / ndf 46.32 / 40
p0 −2102 ± 1032
pull
Entries 41
Mean 39.67
Std Dev 31.29

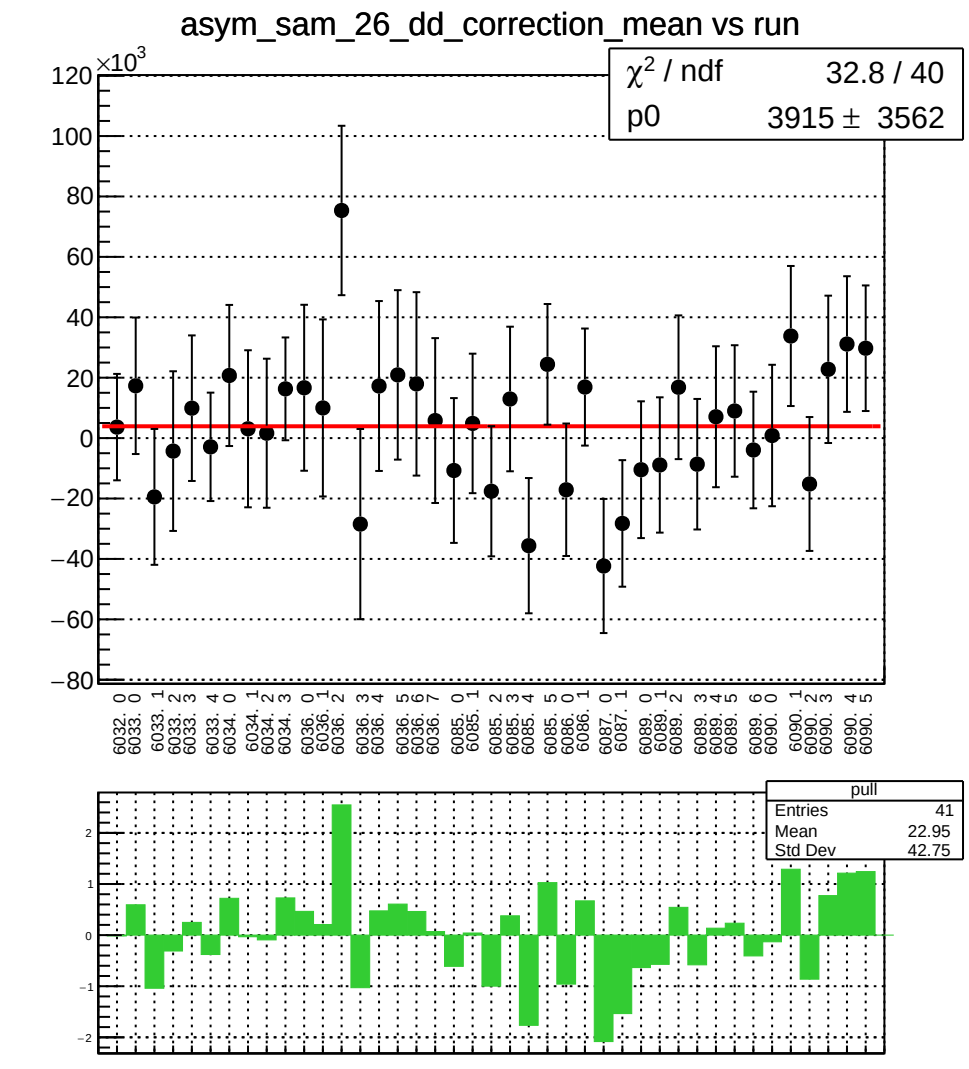

pull1D
Entries 41
Mean −0.01832
Std Dev 1.063

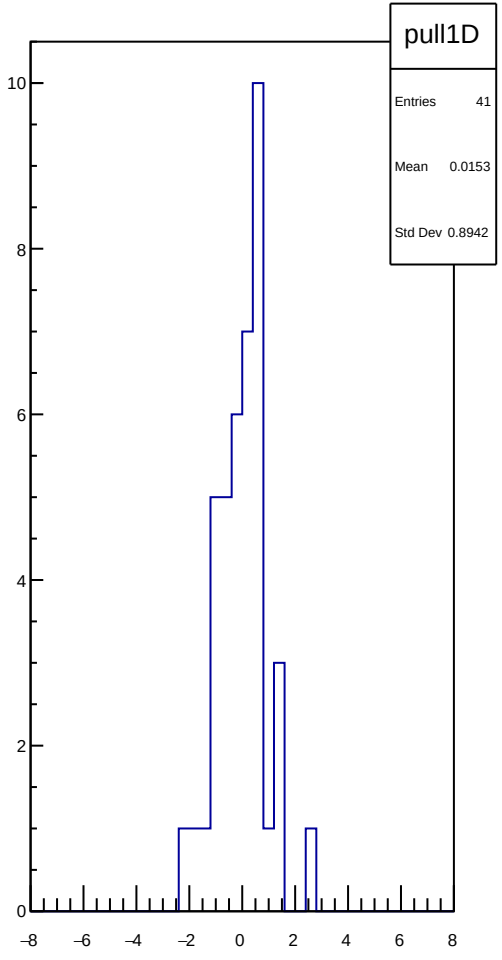

asym_sam_15_dd_rms vs run
χ² / ndf 2.496e+04 / 40
p0 648.8 ± 0.7297
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

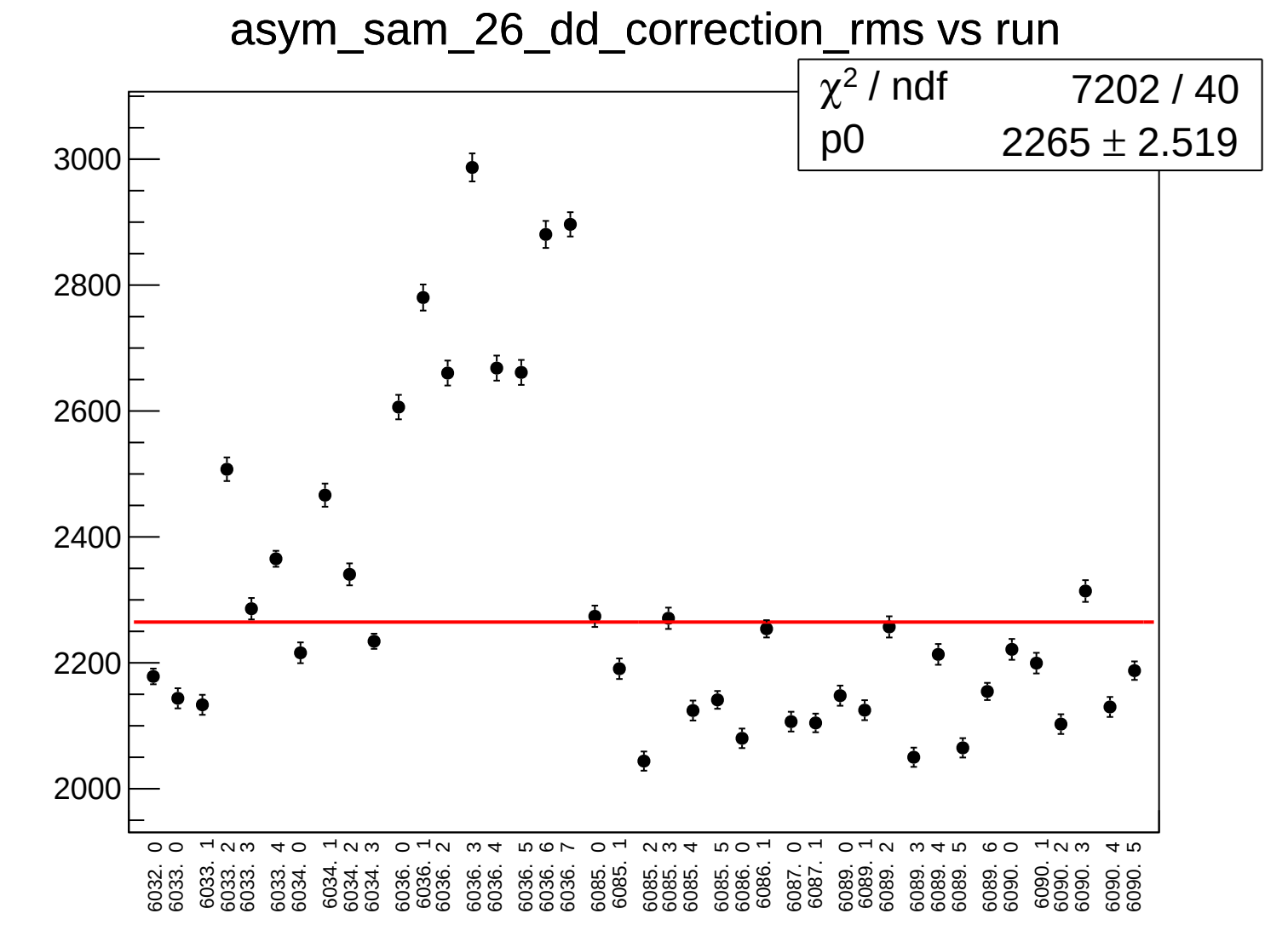

dit_asym_sam_26_dd_mean vs run
χ² / ndf 31.37 / 40
p0 227.9 ± 297.6
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −522.3
Std Dev 543.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

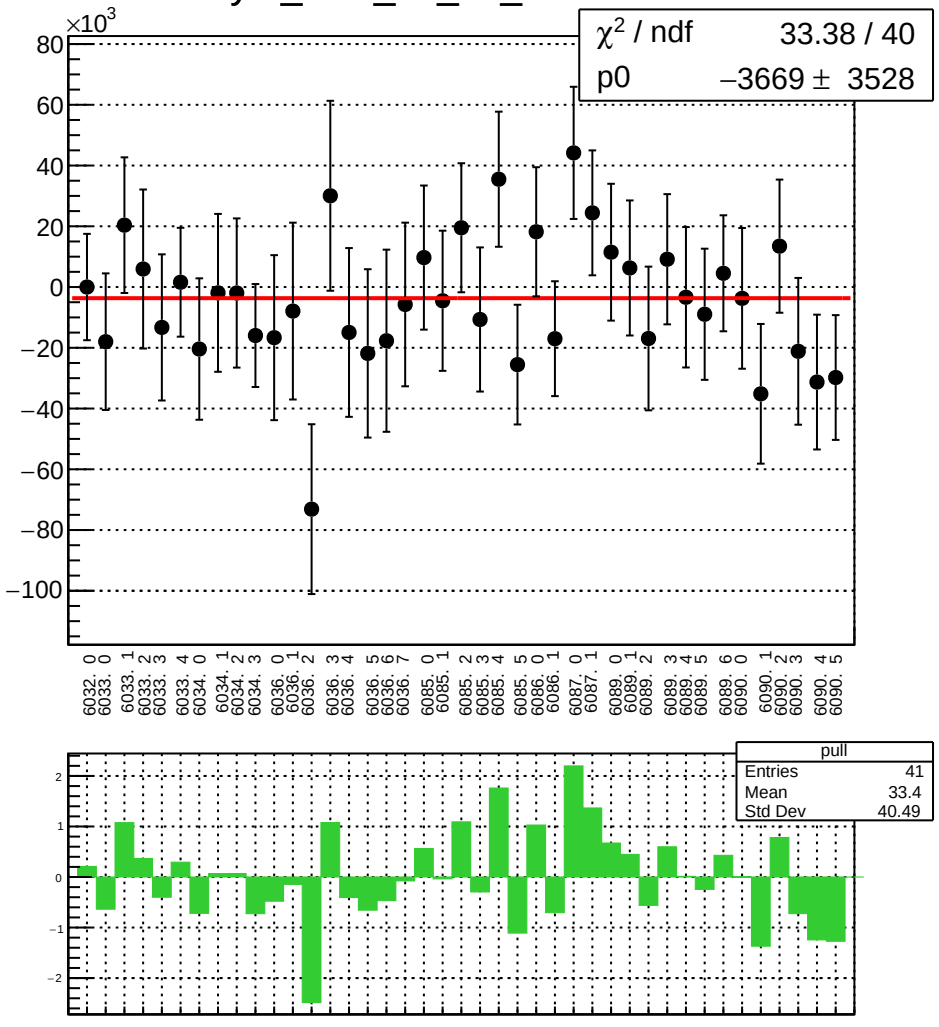

pull1D
Entries 41
Mean 0.003366
Std Dev 0.8748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

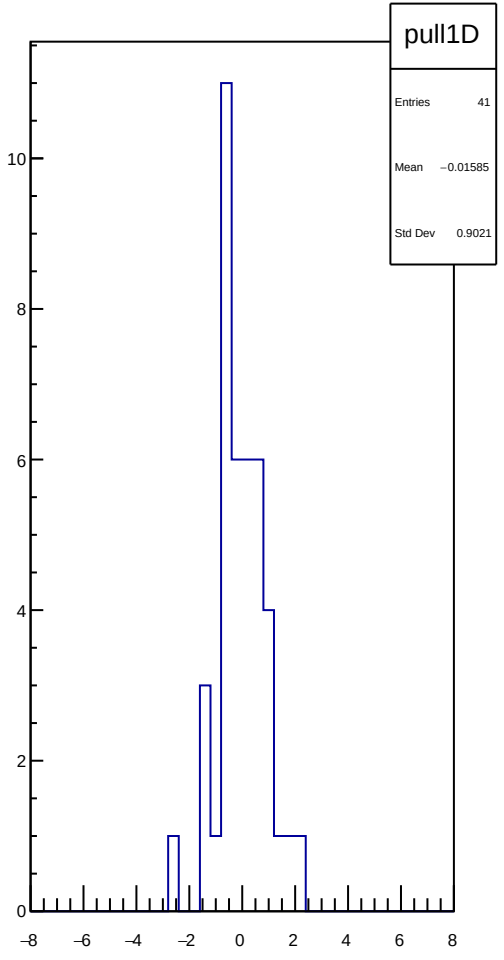

dit_asym_sam_26_dd_rms vs run
χ² / ndf 699.3 / 40
p0 190 ± 0.2104
210
205
200
195
190
185
180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

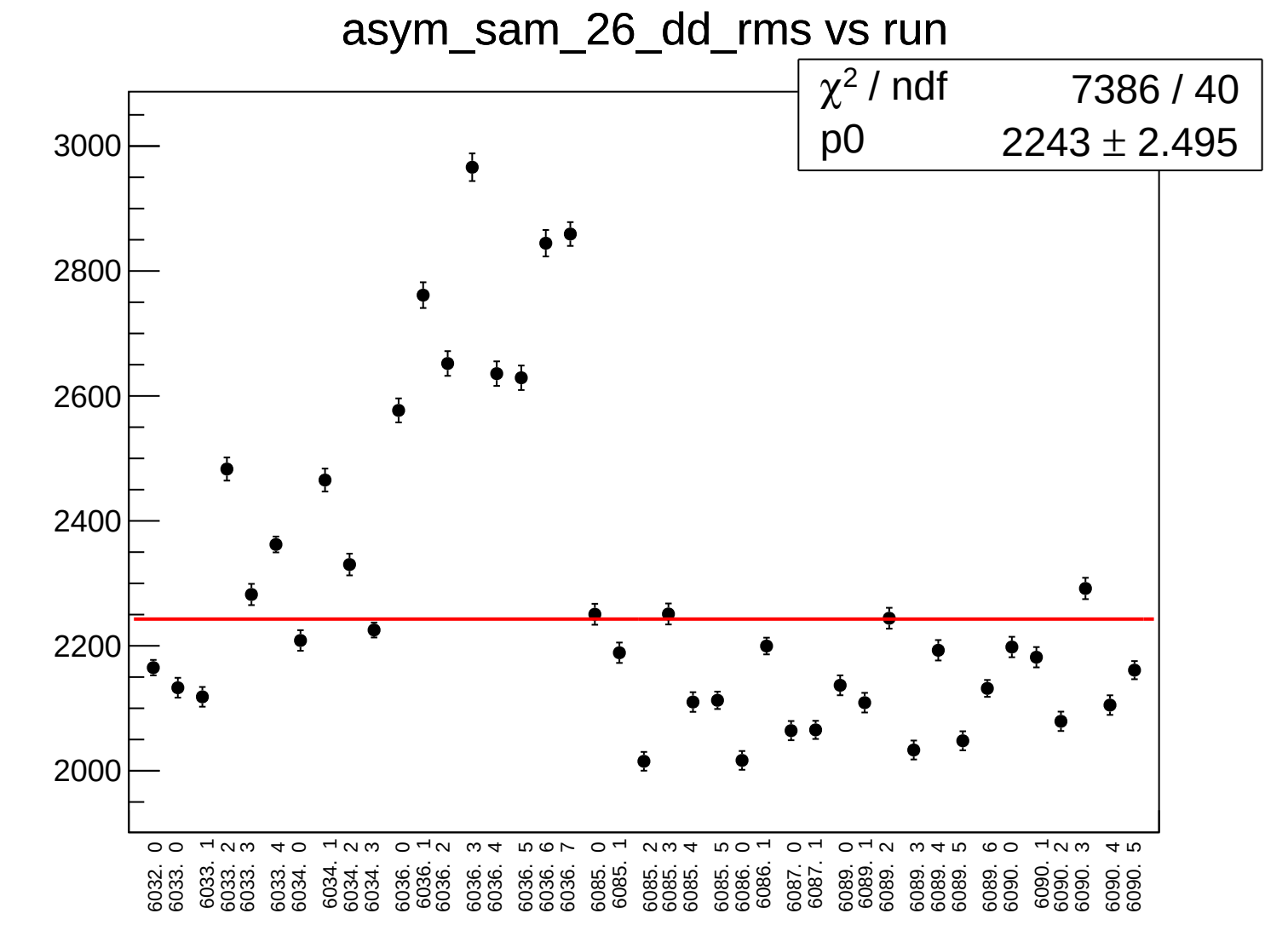

asym_sam_26_dd_correction_mean vs run
χ² / ndf 32.8 / 40
p0 3915 ± 3562
×10³
pull
Entries 41
Mean 22.95
Std Dev 42.75

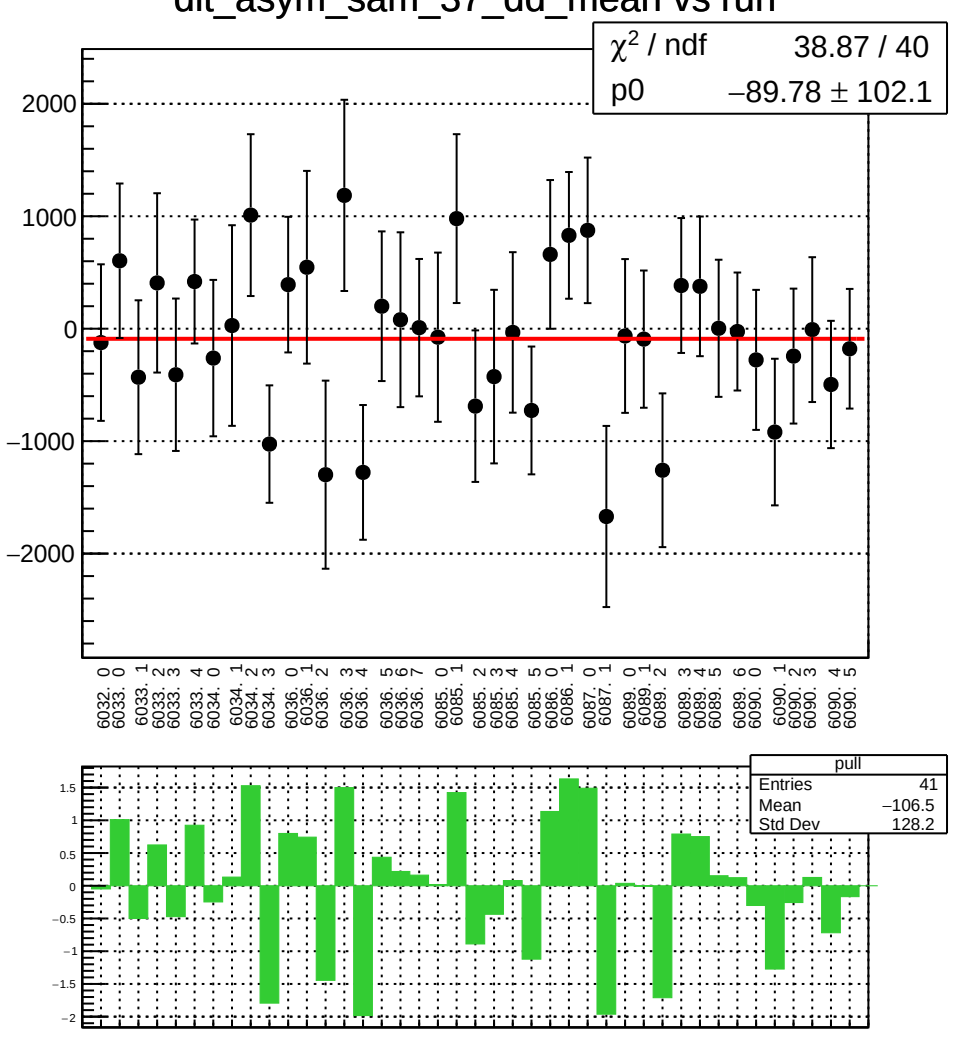

pull1D
Entries 41
Mean 0.0153
Std Dev 0.8942

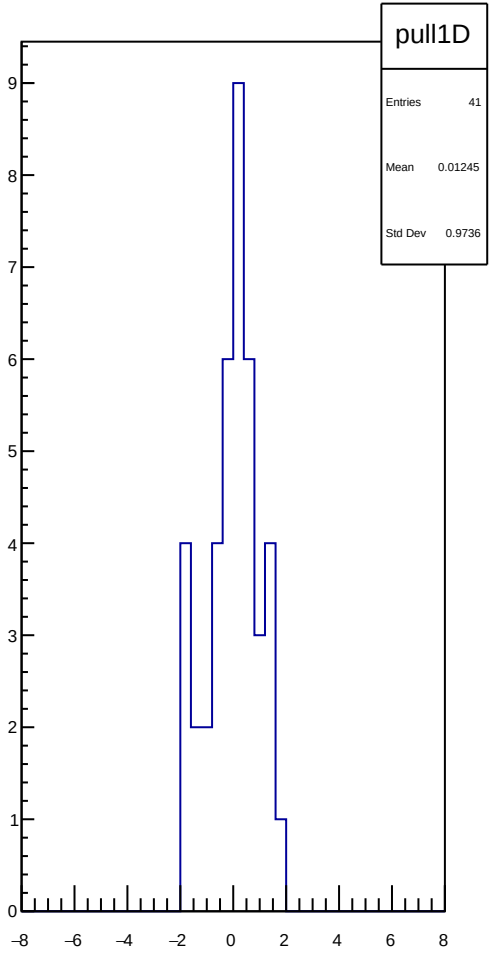

asym_sam_26_dd_correction_rms vs run
χ² / ndf 7202 / 40
p0 2265 ± 2.519
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

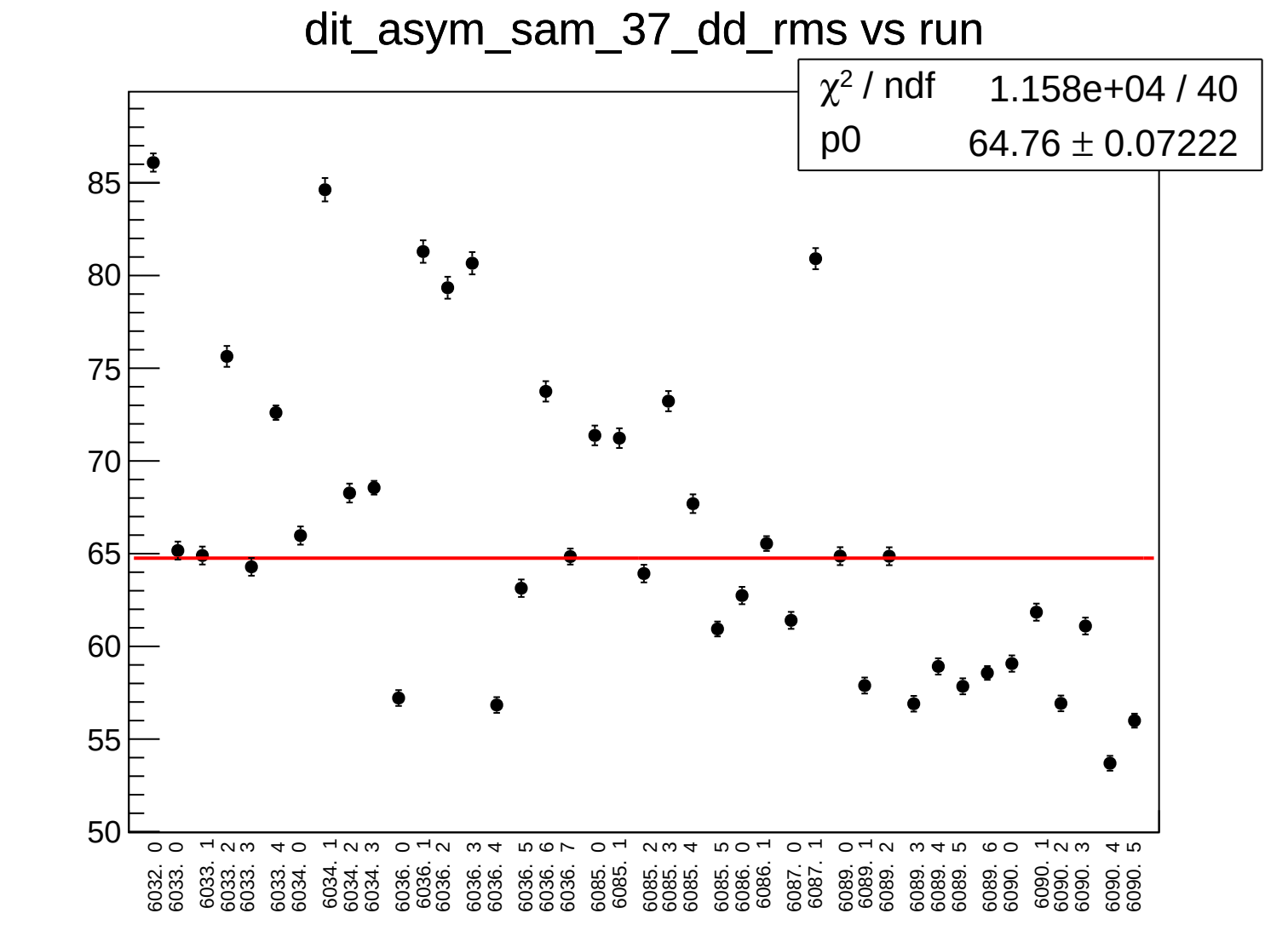

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 33.38 / 40
p0 −3669 ± 3528
pull
Entries 41
Mean 33.4
Std Dev 40.49

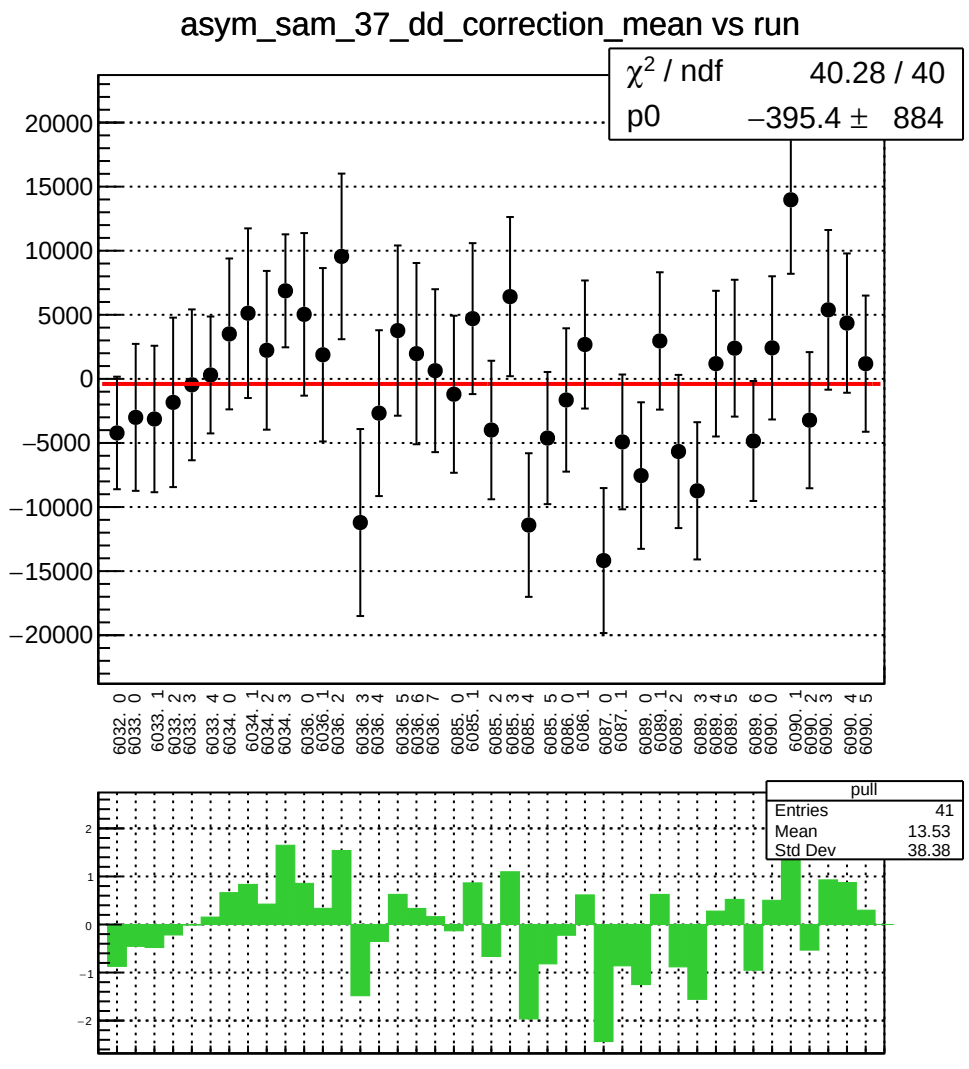

pull1D
Entries 41
Mean −0.01585
Std Dev 0.9021

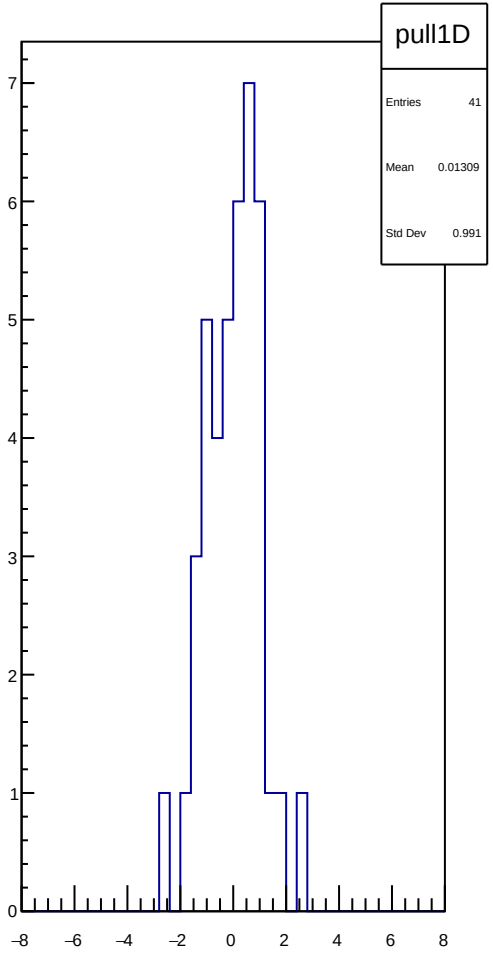

asym_sam_26_dd_rms vs run
χ² / ndf 7386 / 40
p0 2243 ± 2.495
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

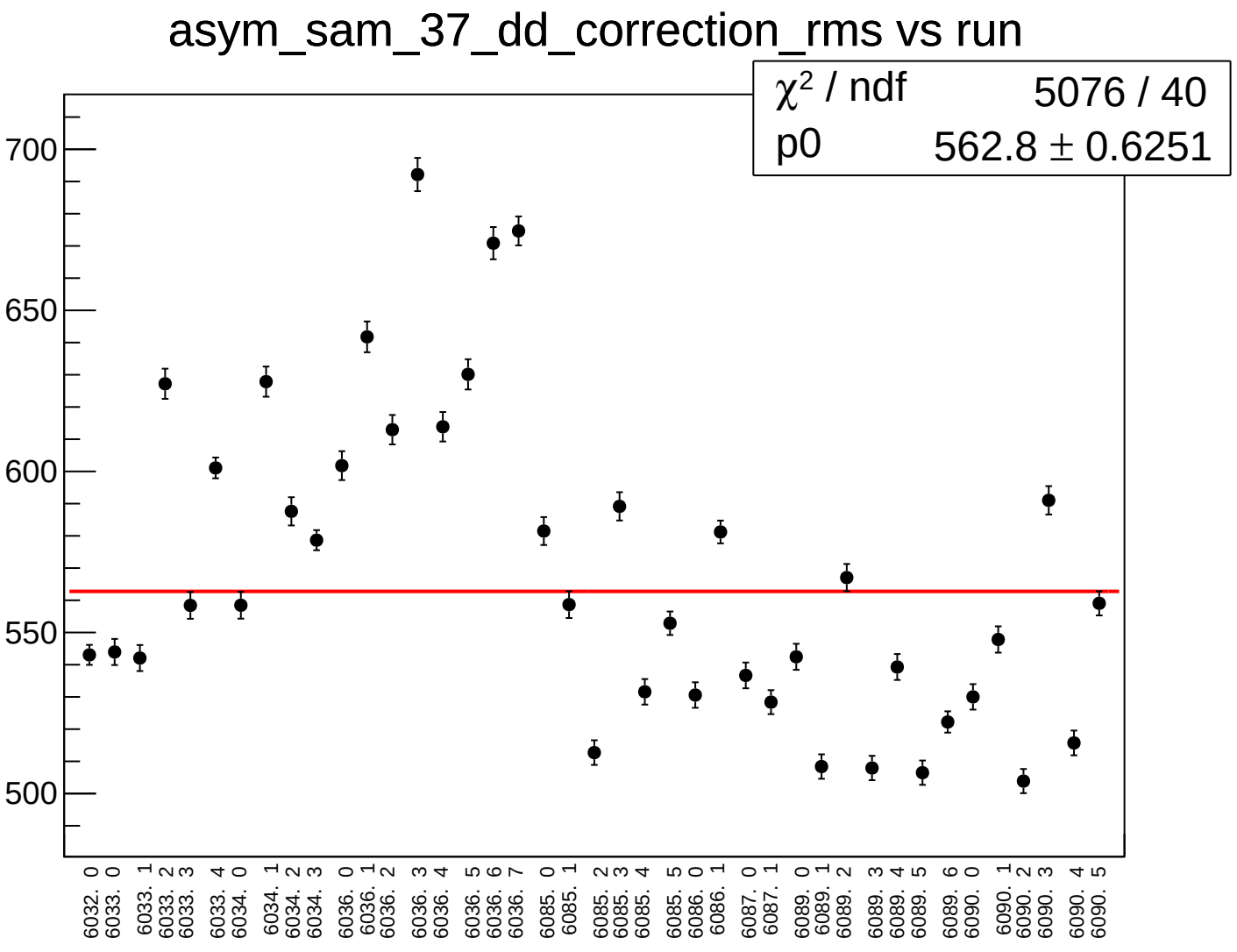

dit_asym_sam_37_dd_mean vs run
χ² / ndf 38.87 / 40
p0 −89.78 ± 102.1
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −106.5
Std Dev 128.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

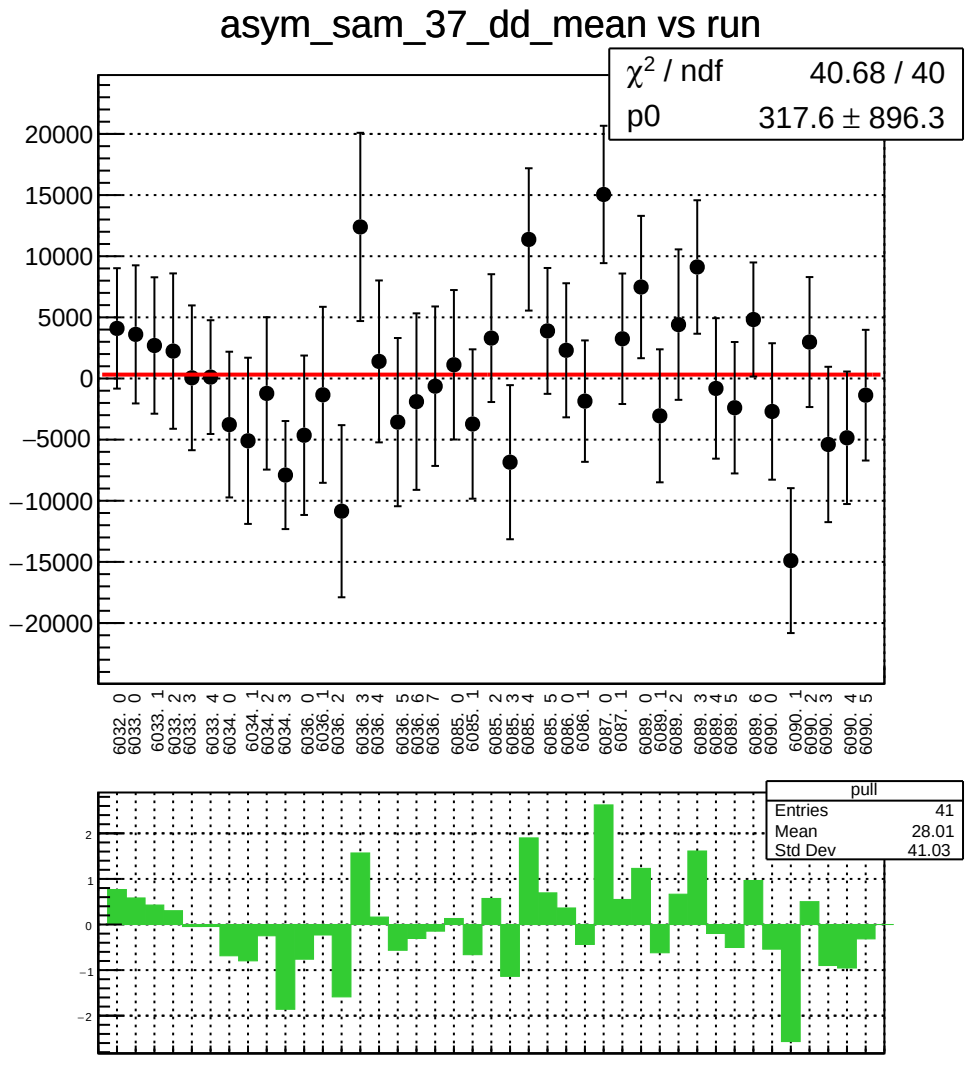

pull1D
Entries 41
Mean 0.01245
Std Dev 0.9736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

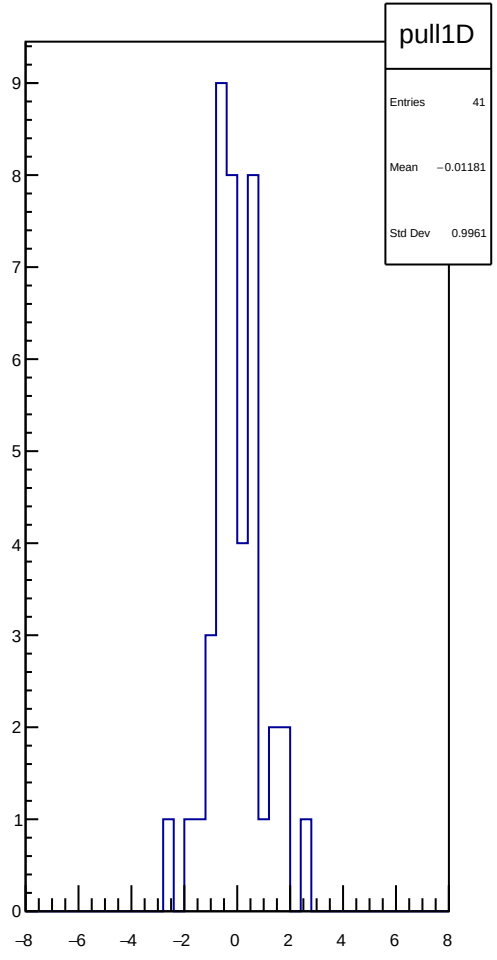

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.158e+04 / 40
p0 64.76 ± 0.07222
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

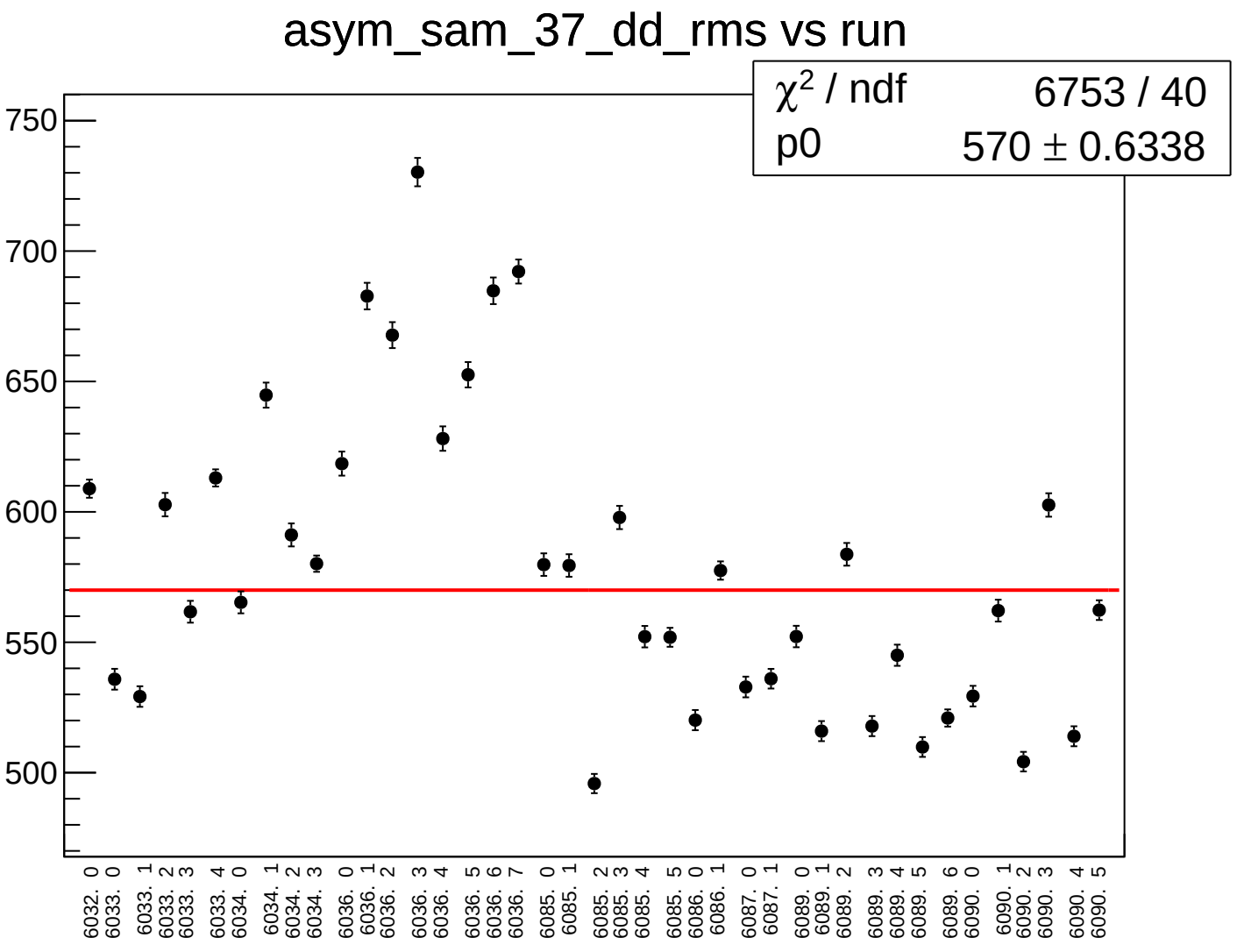

asym_sam_37_dd_correction_mean vs run
χ² / ndf 40.28 / 40
p0 −395.4 ± 884
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 13.53
Std Dev 38.38
2
1
0
−1
−2

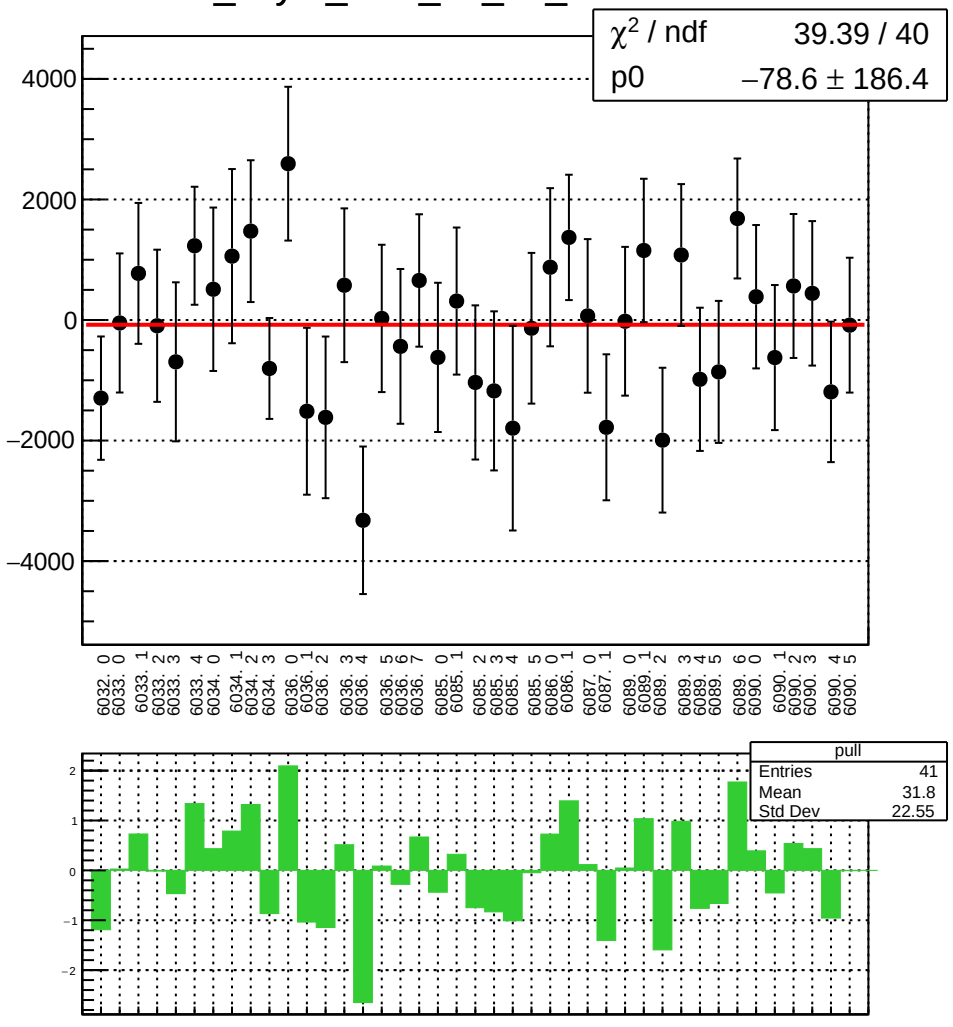

pull1D
Entries 41
Mean 0.01309
Std Dev 0.991
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

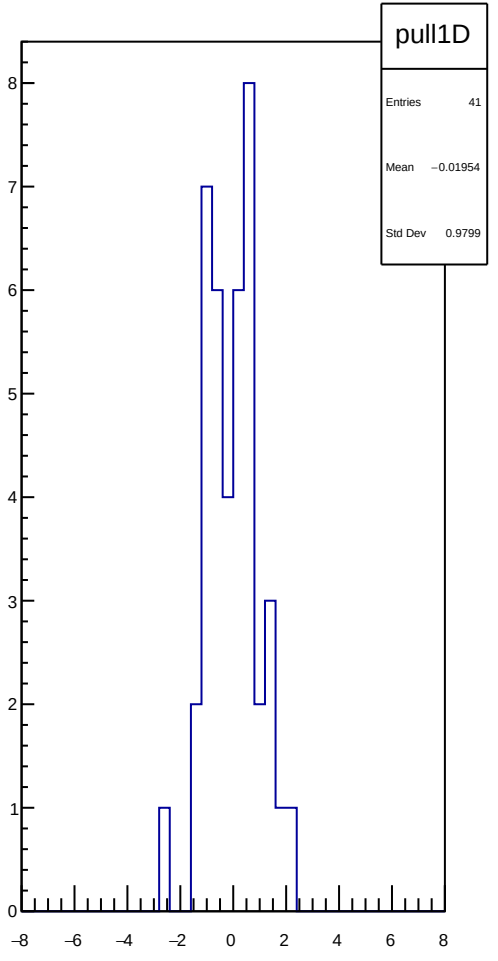

asym_sam_37_dd_correction_rms vs run
χ² / ndf 5076 / 40
p0 562.8 ± 0.6251
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

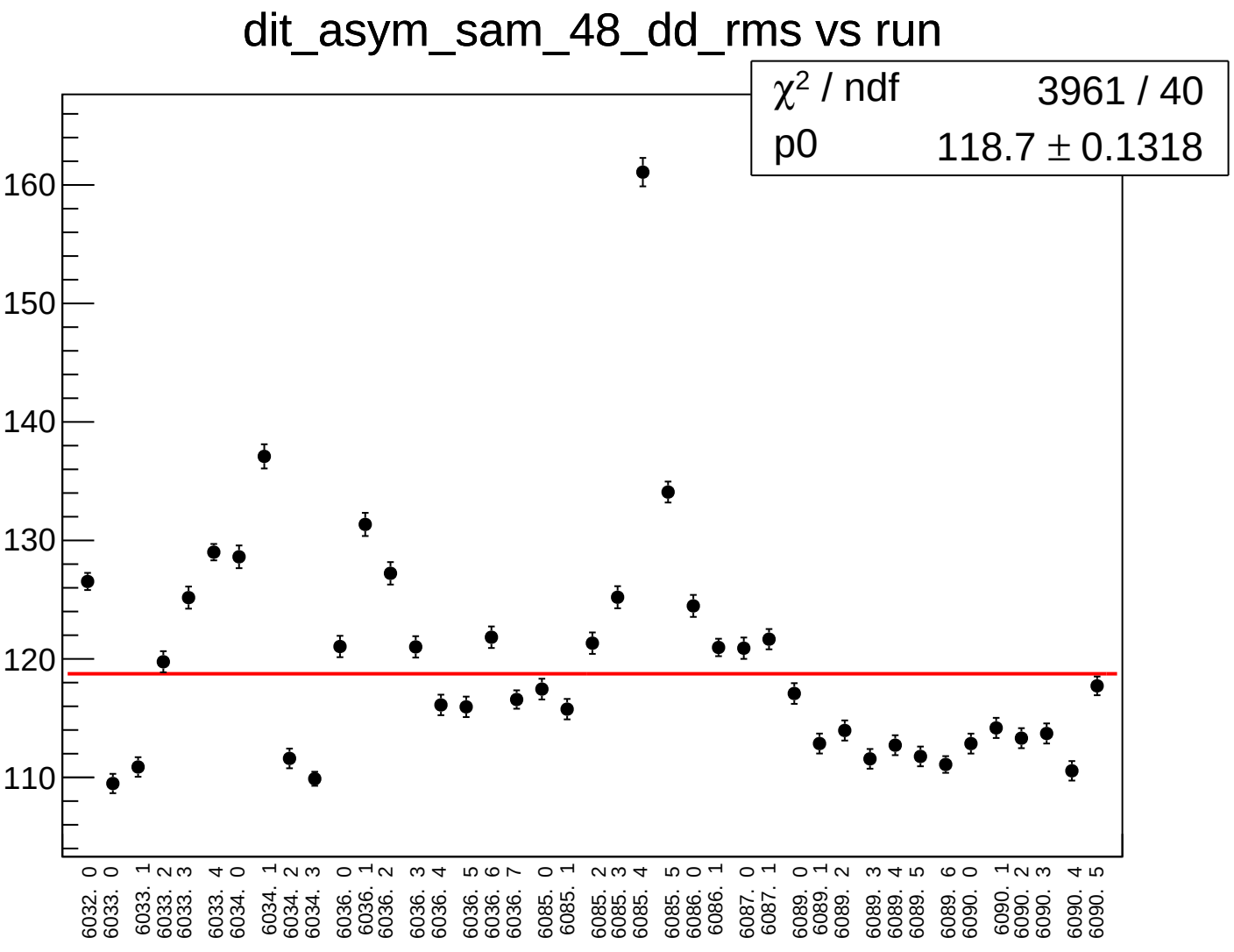

asym_sam_37_dd_mean vs run
χ² / ndf 40.68 / 40
p0 317.6 ± 896.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 28.01
Std Dev 41.03
2
1
0
−1
−2

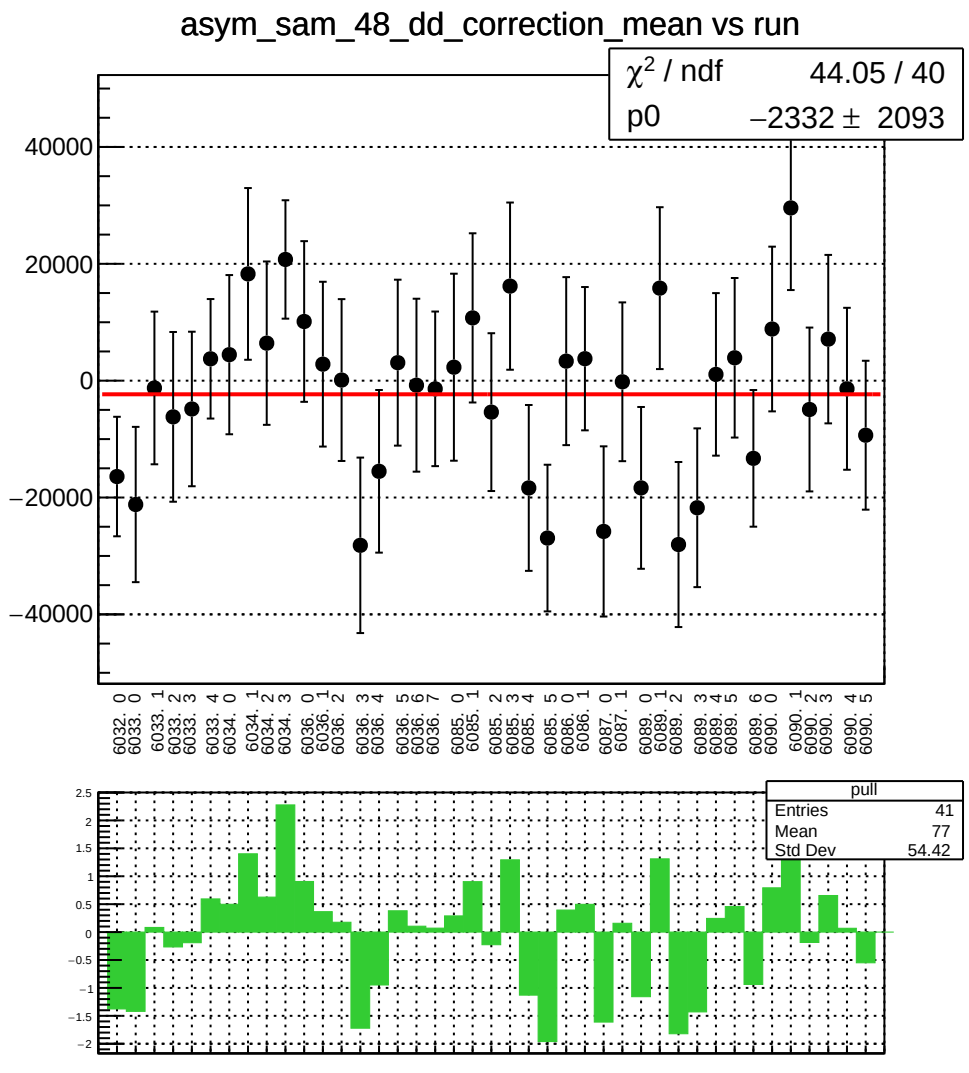

pull1D
Entries 41
Mean −0.01181
Std Dev 0.9961
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

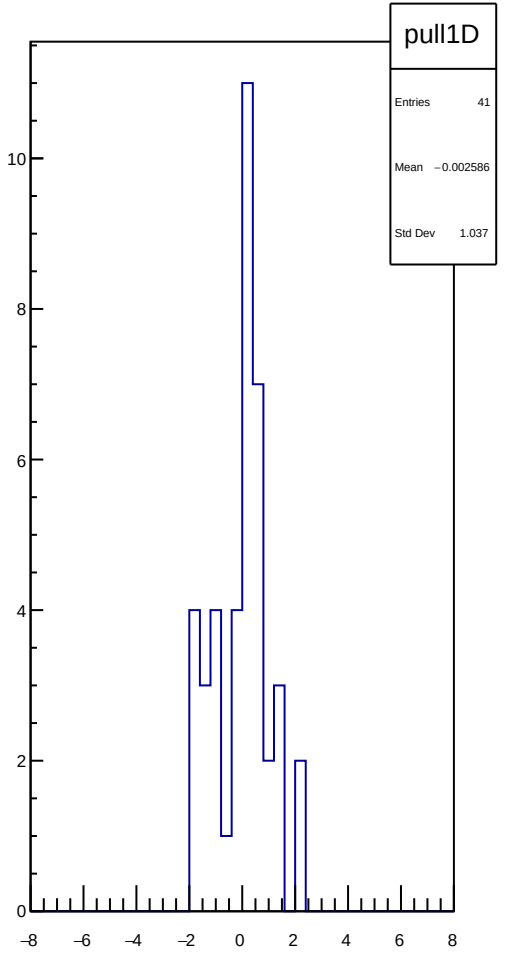

asym_sam_37_dd_rms vs run
χ² / ndf 6753 / 40
p0 570 ± 0.6338
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

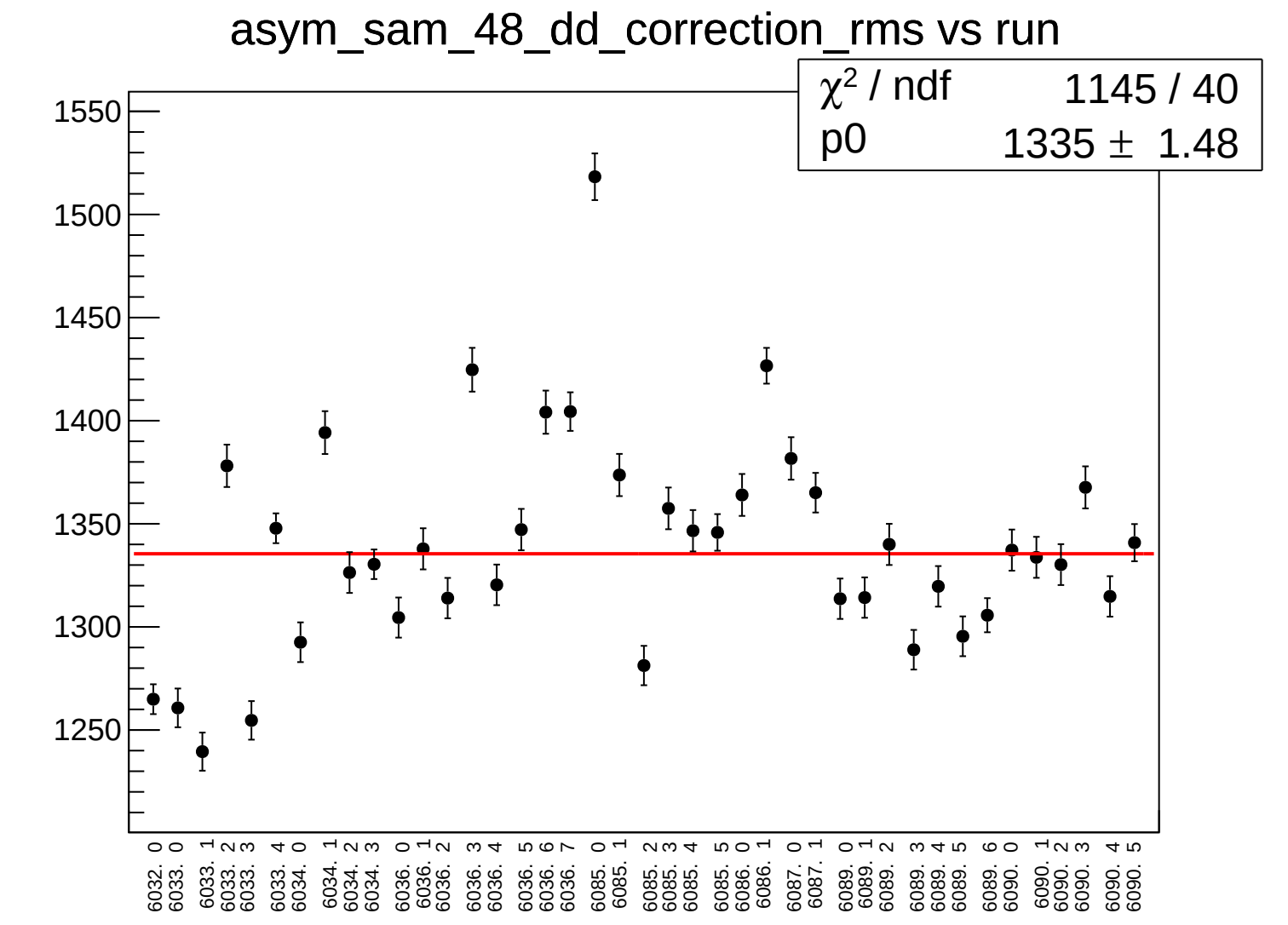

dit_asym_sam_48_dd_mean vs run
χ² / ndf 39.39 / 40
p0 −78.6 ± 186.4
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 31.8
Std Dev 22.55
2
1
0
−1
−2

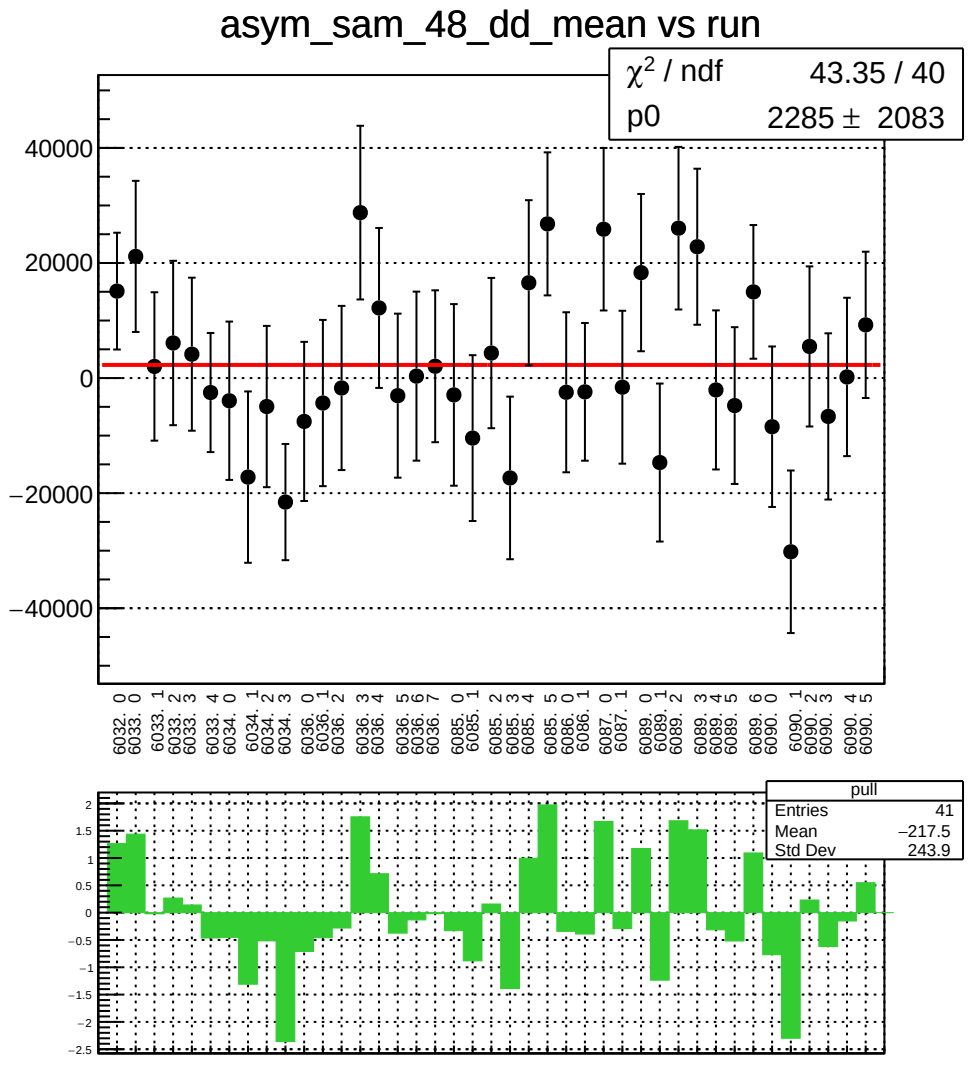

pull1D
Entries 41
Mean −0.01954
Std Dev 0.9799
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

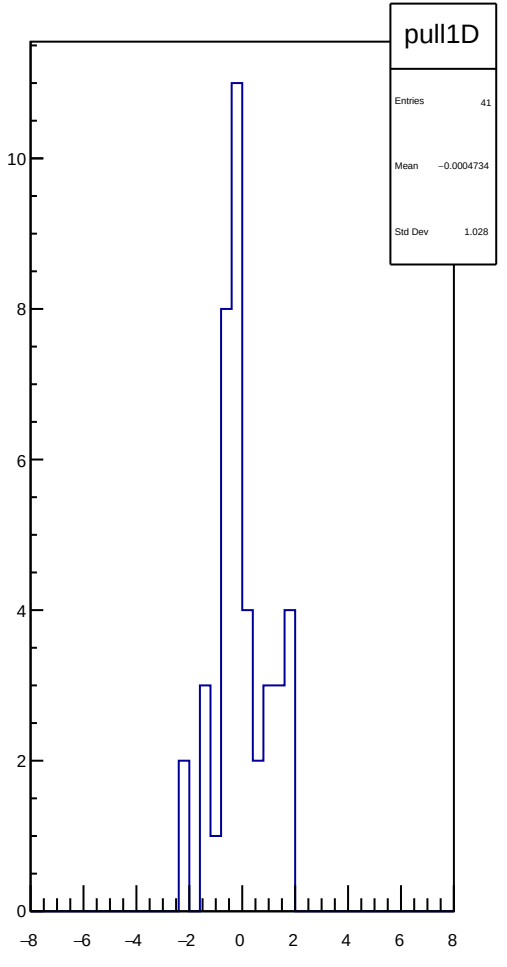

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3961 / 40
p0 118.7 ± 0.1318
160
150
140
130
120
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

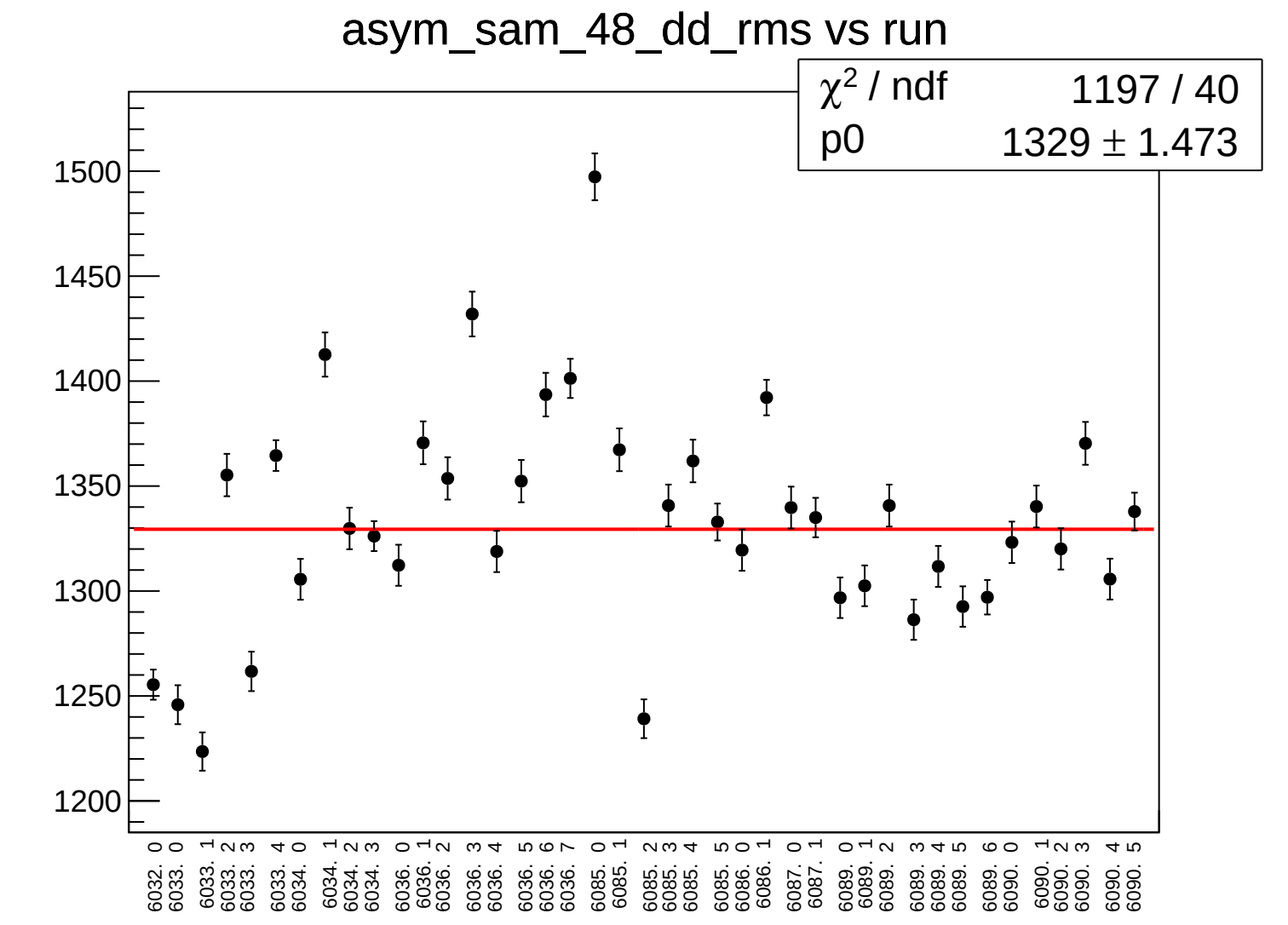

asym_sam_48_dd_correction_mean vs run
χ² / ndf 44.05 / 40
p0 −2332 ± 2093
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 77
Std Dev 54.42
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

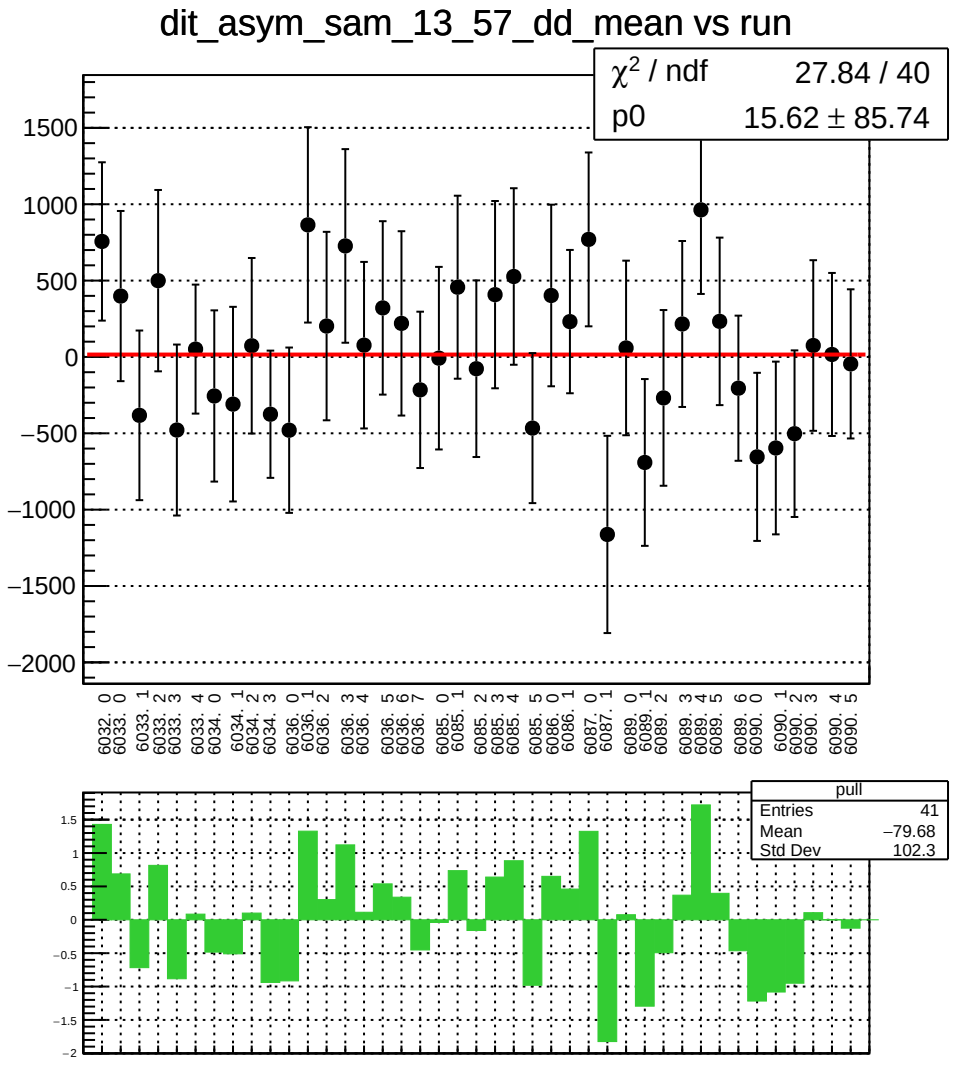

pull1D
Entries 41
Mean −0.002586
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

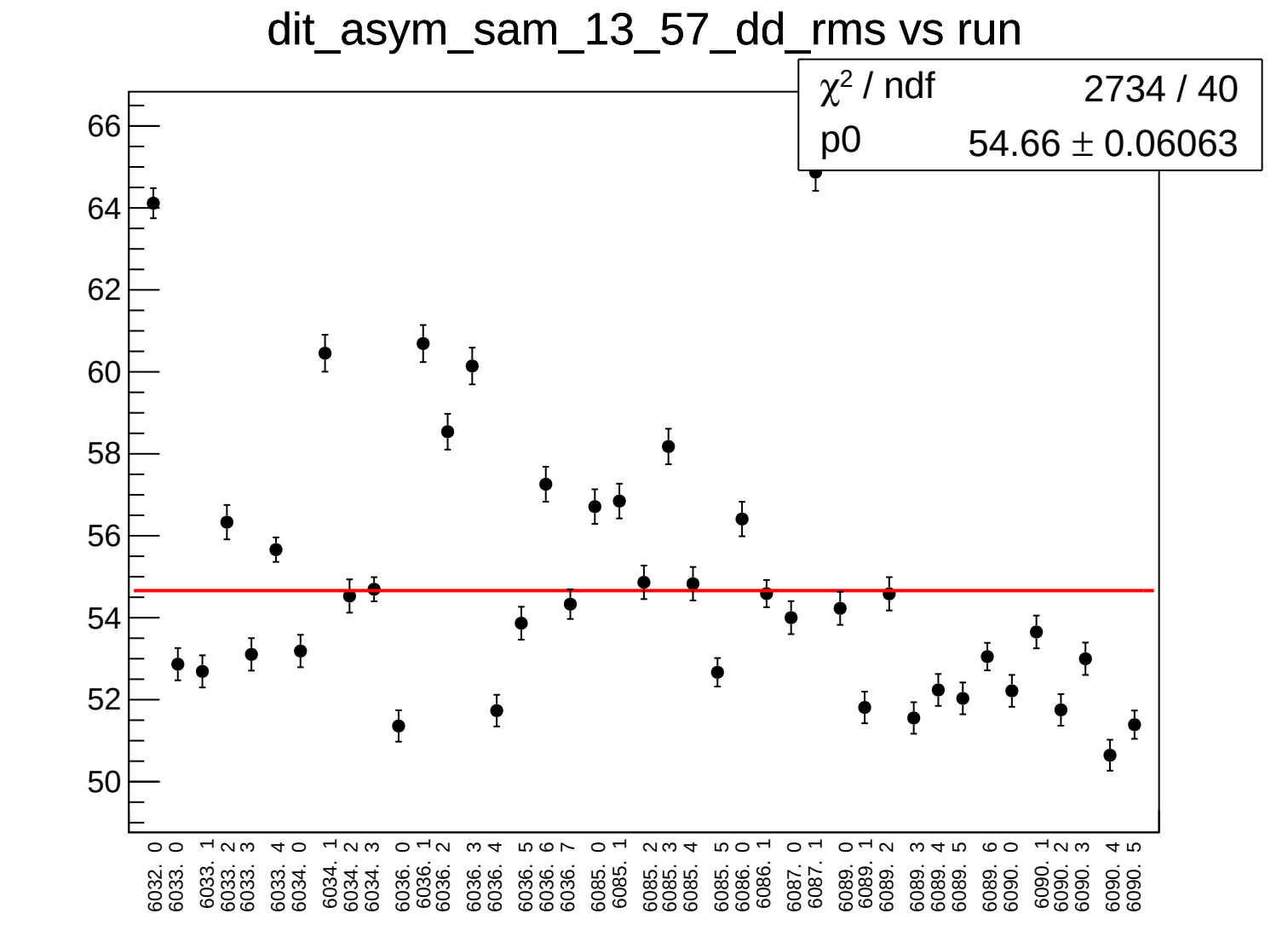

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1145 / 40
p0 1335 ± 1.48
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

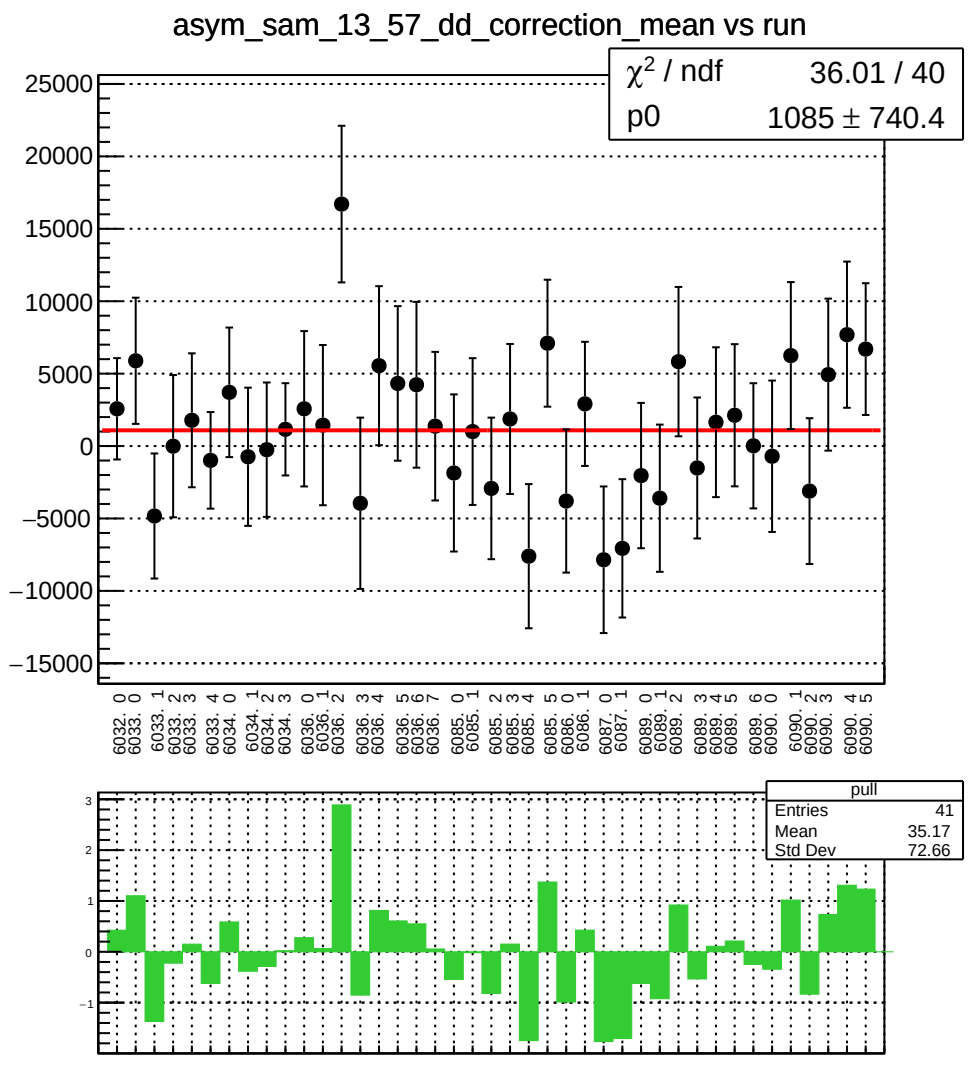

asym_sam_48_dd_mean vs run
χ² / ndf 43.35 / 40
p0 2285 ± 2083
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −217.5
Std Dev 243.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

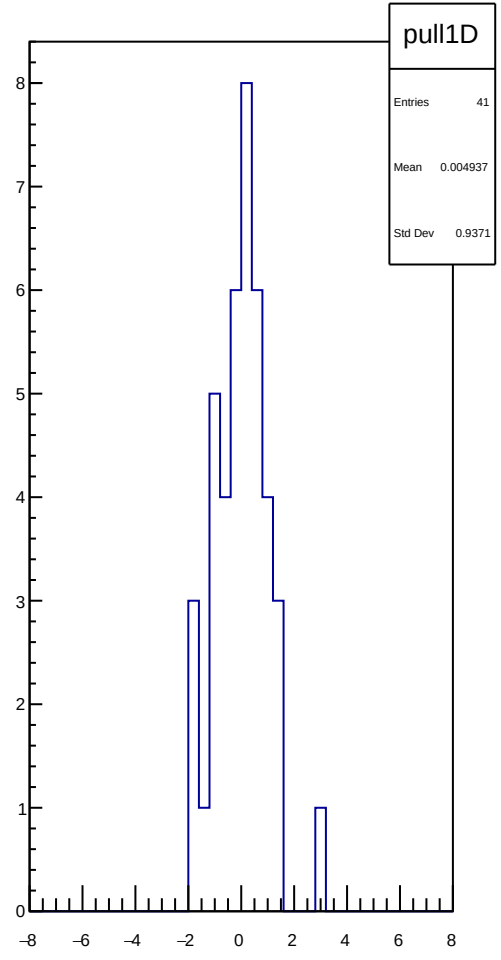

pull1D
Entries 41
Mean −0.0004734
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

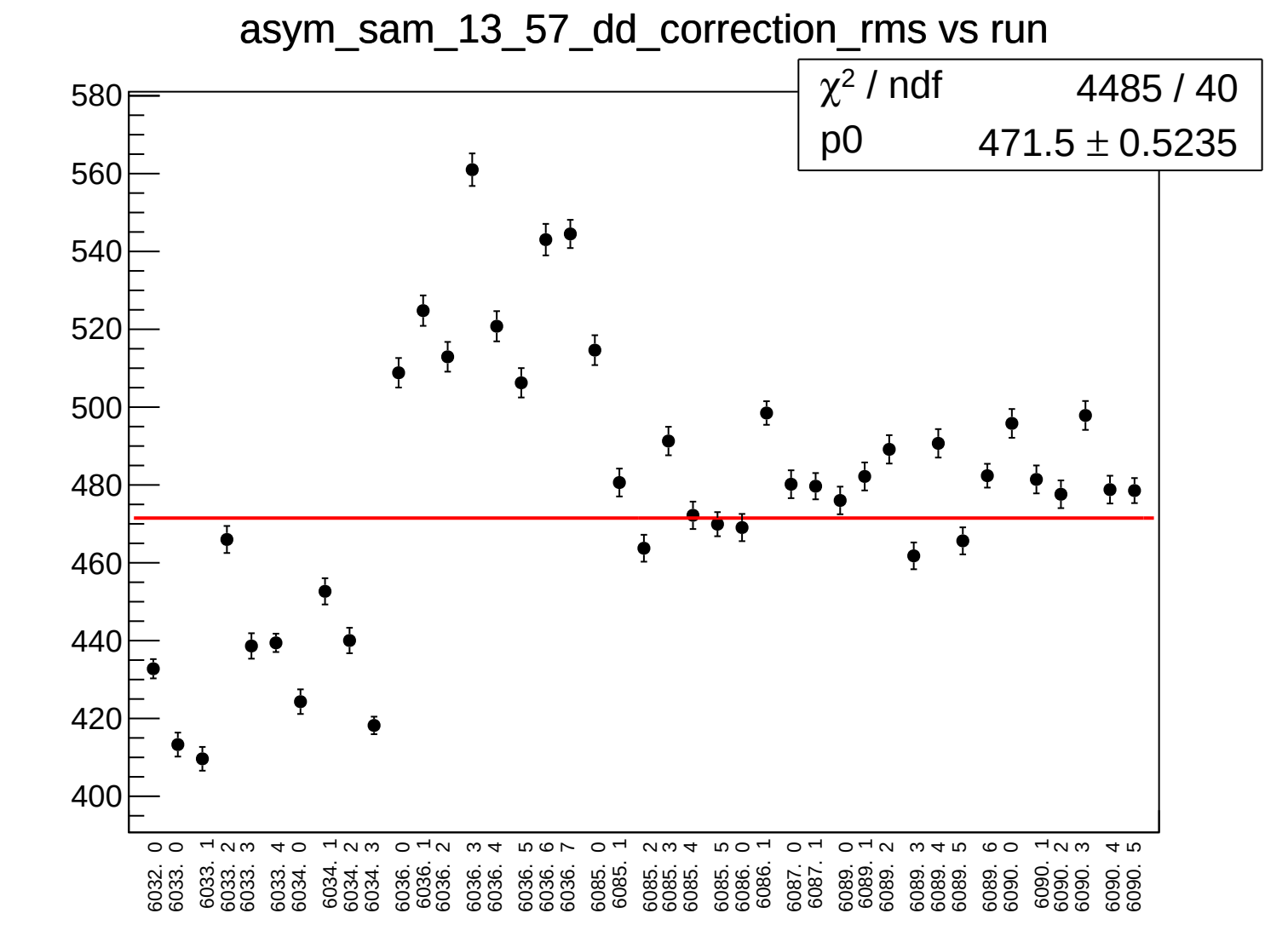

asym_sam_48_dd_rms vs run
χ² / ndf 1197 / 40
p0 1329 ± 1.473
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

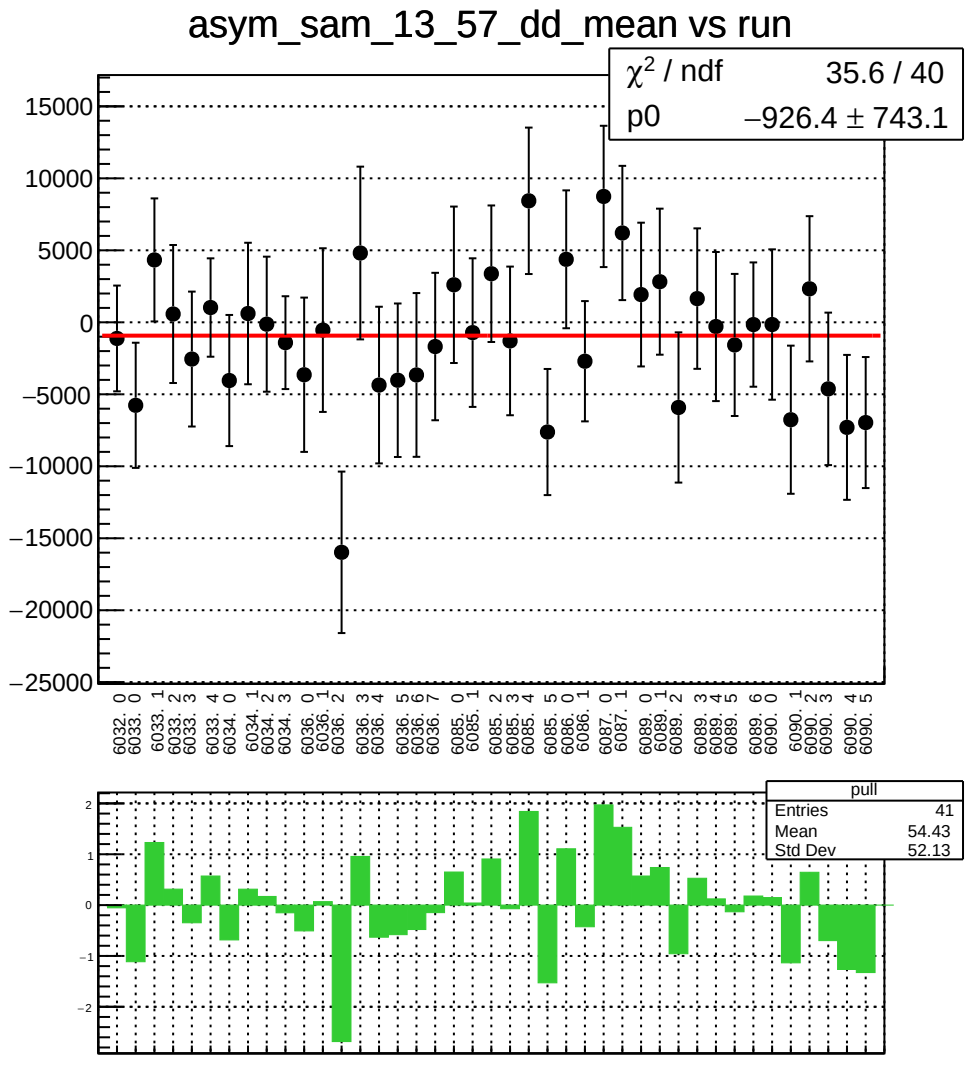

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 27.84 / 40
p0 15.62 ± 85.74
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −79.68
Std Dev 102.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01696
Std Dev 0.8239
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

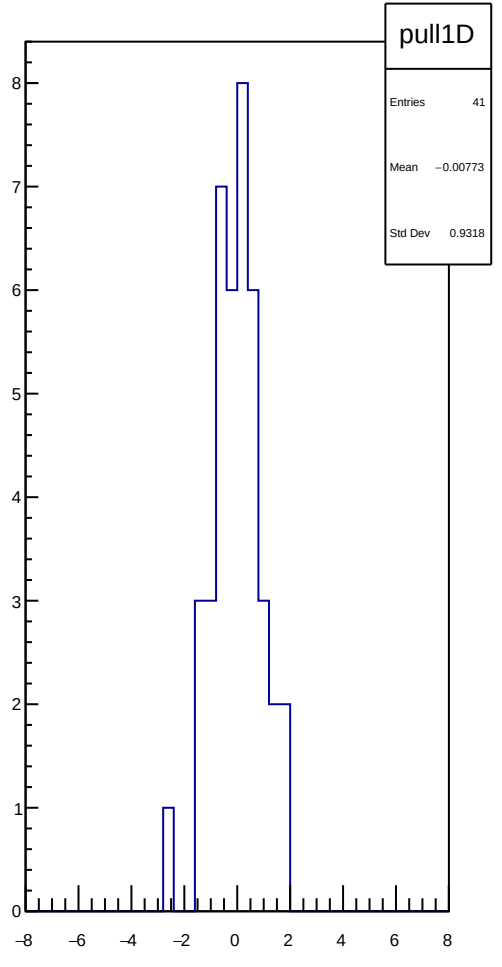

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2734 / 40
p0 54.66 ± 0.06063
66
64
62
60
58
56
54
52
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

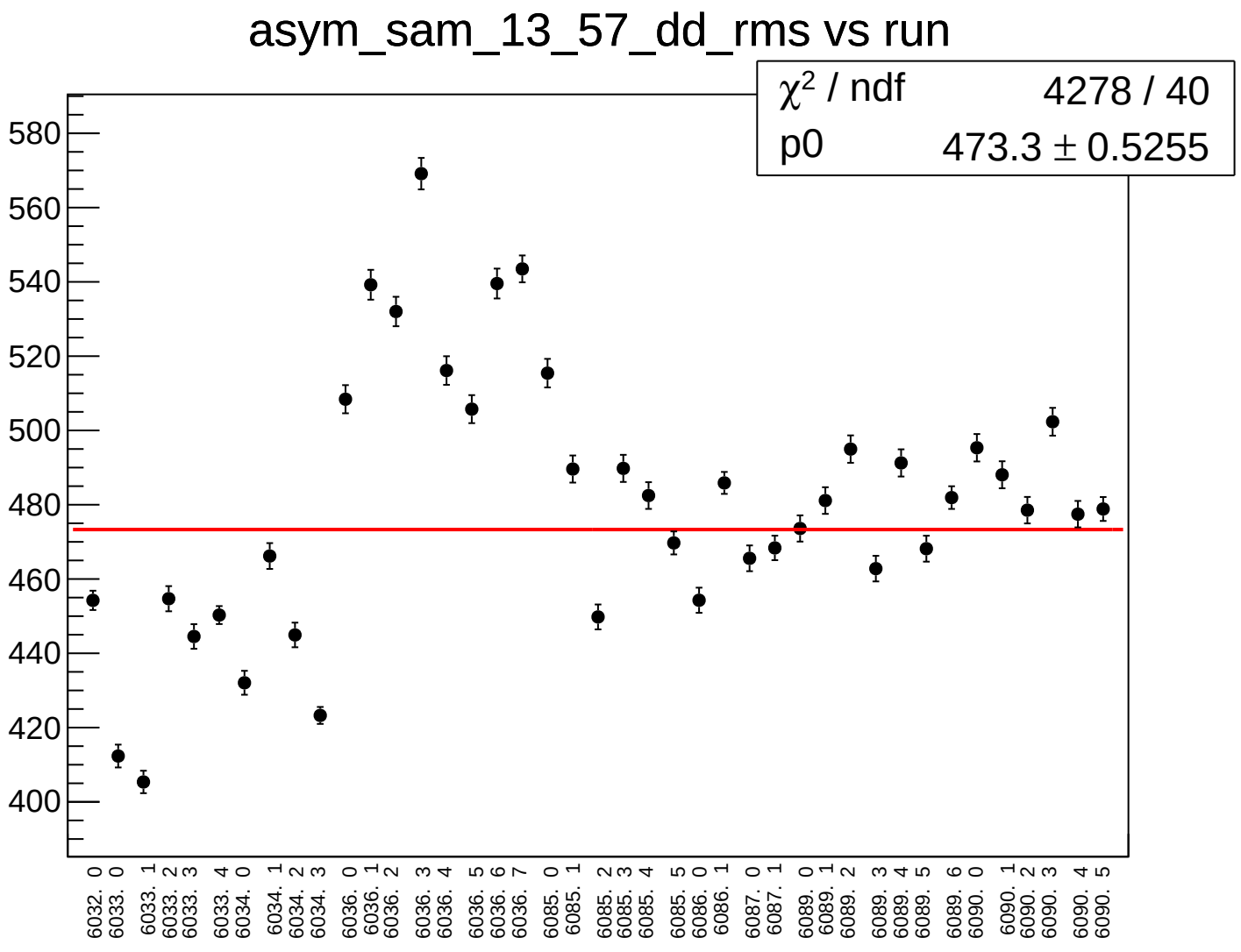

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 36.01 / 40
p0 1085 ± 740.4
pull
Entries 41
Mean 35.17
Std Dev 72.66

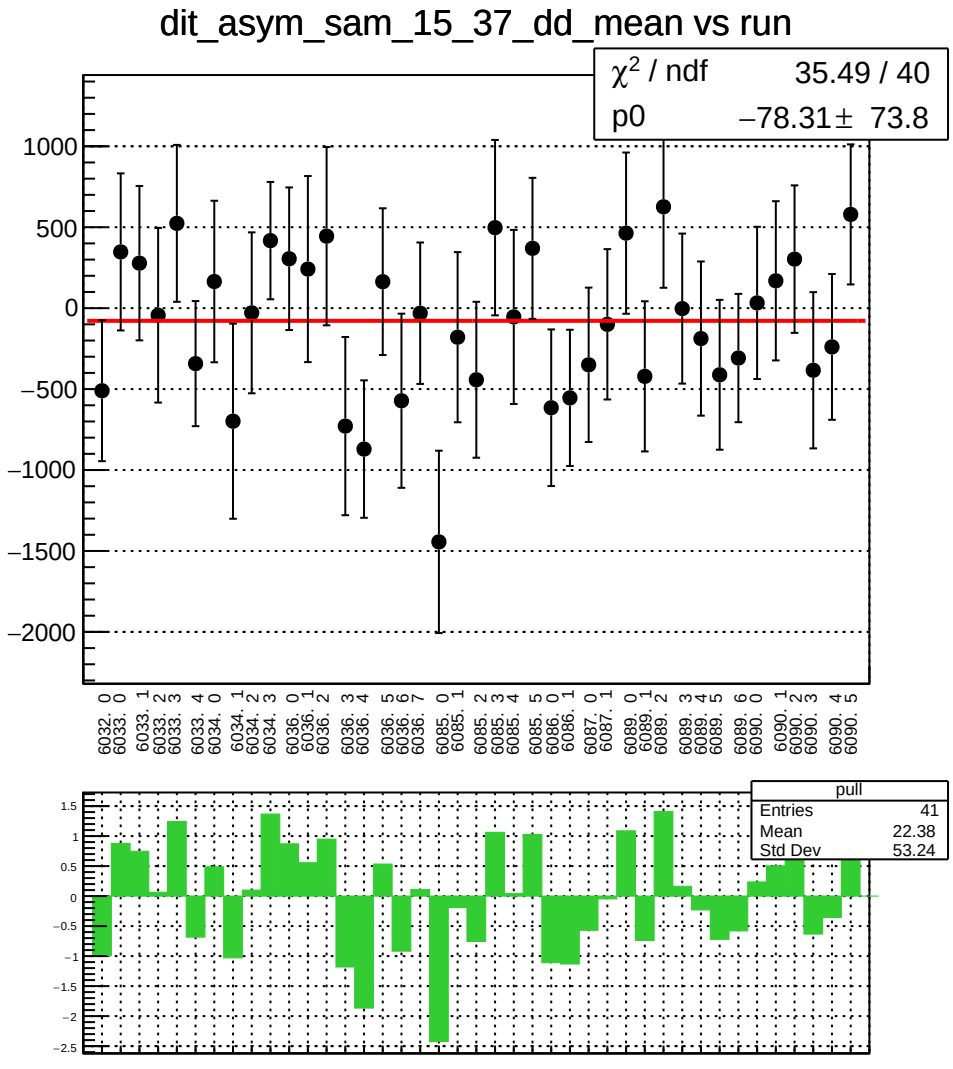

pull1D
Entries 41
Mean 0.004937
Std Dev 0.9371

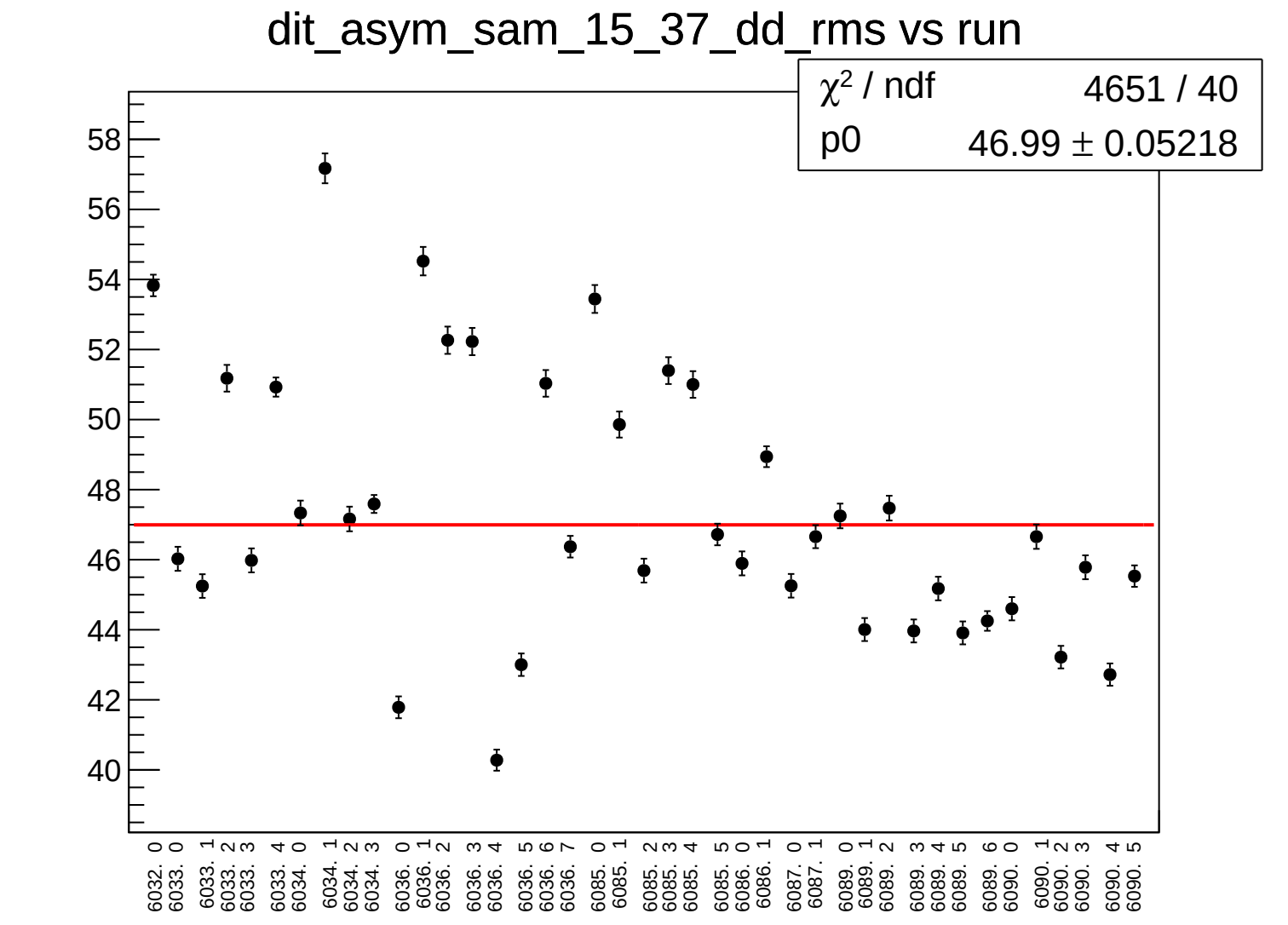

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 4485 / 40
p0 471.5 ± 0.5235
580
560
540
520
500
480
460
440
420
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

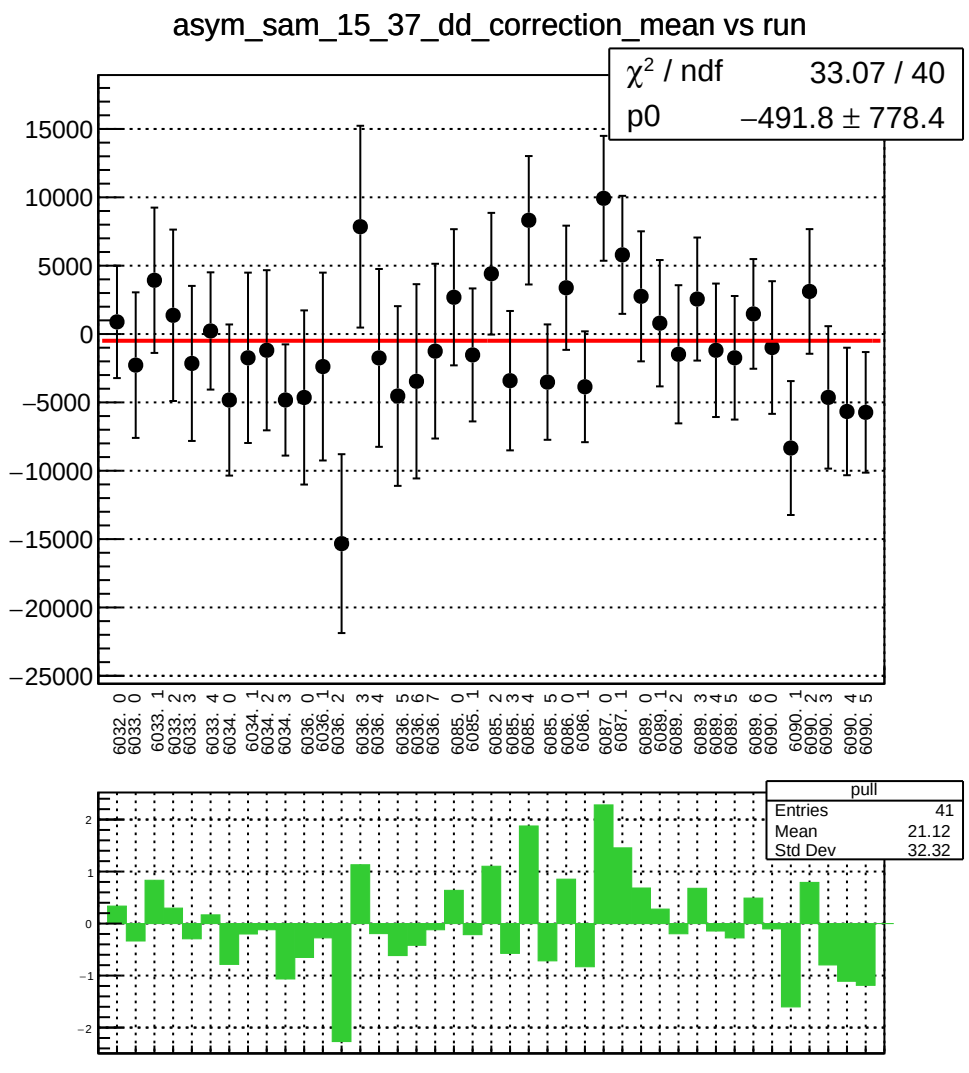

asym_sam_13_57_dd_mean vs run
χ² / ndf 35.6 / 40
p0 −926.4 ± 743.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 54.43
Std Dev 52.13
2
1
0
−1
−2

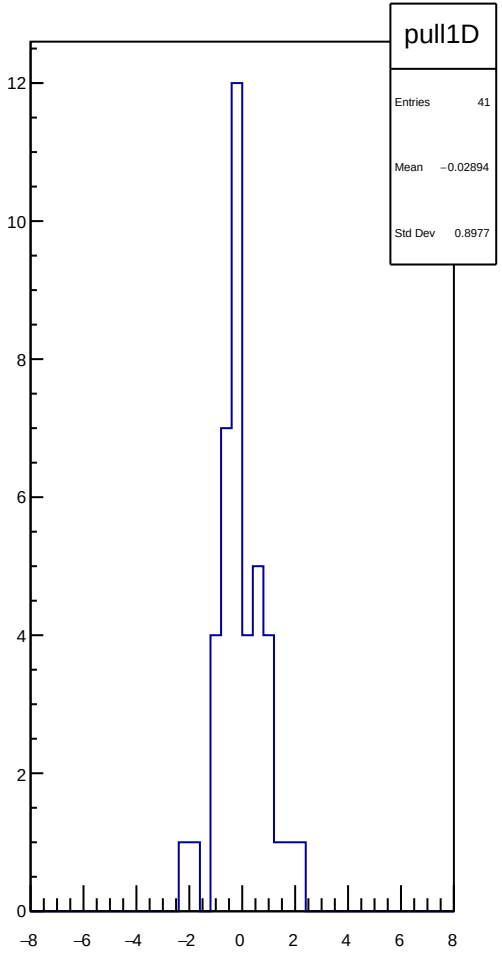

pull1D
Entries 41
Mean −0.00773
Std Dev 0.9318
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

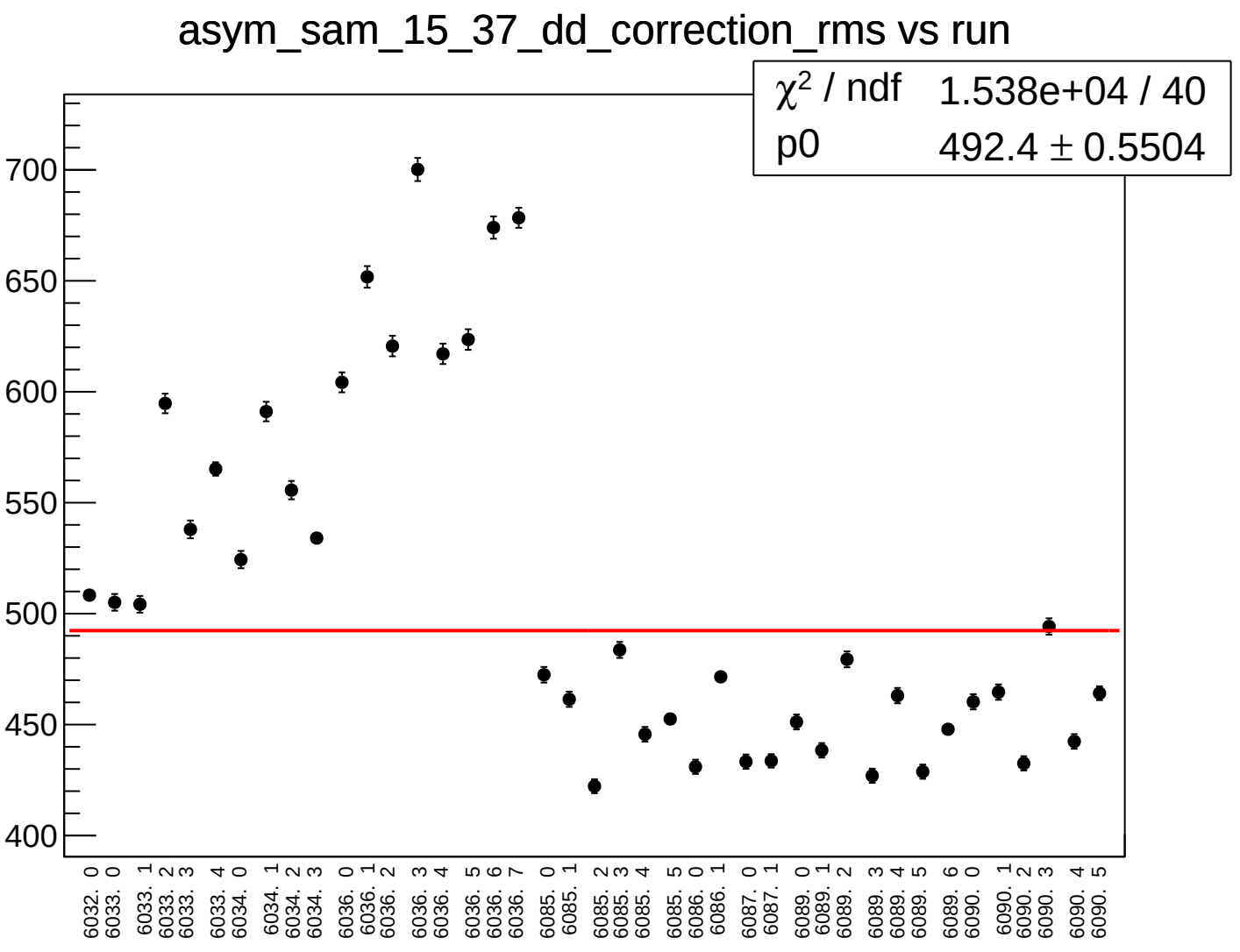

asym_sam_13_57_dd_rms vs run
χ² / ndf 4278 / 40
p0 473.3 ± 0.5255
580
560
540
520
500
480
460
440
420
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

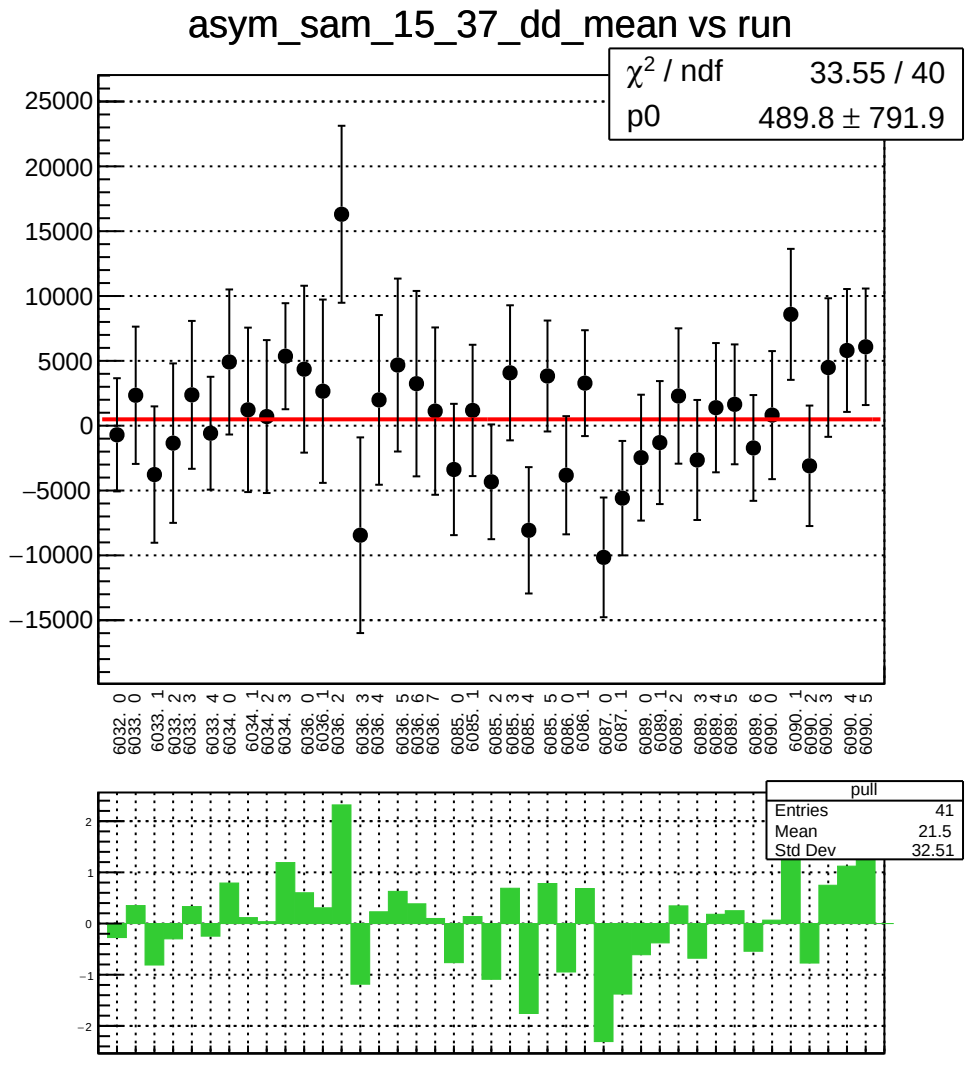

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 35.49 / 40
p0 −78.31 ± 73.8
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 22.38
Std Dev 53.24
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.008996
Std Dev 0.9303
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

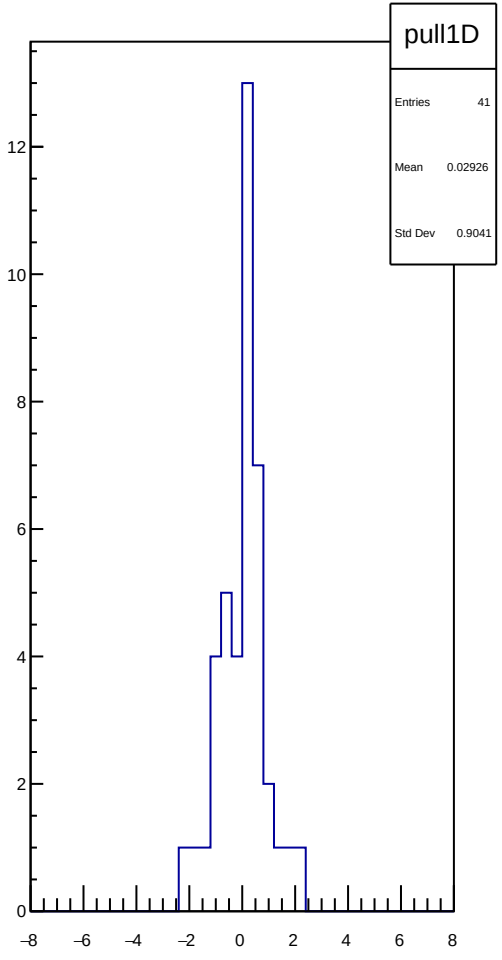

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4651 / 40
p0 46.99 ± 0.05218
58
56
54
52
50
48
46
44
42
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

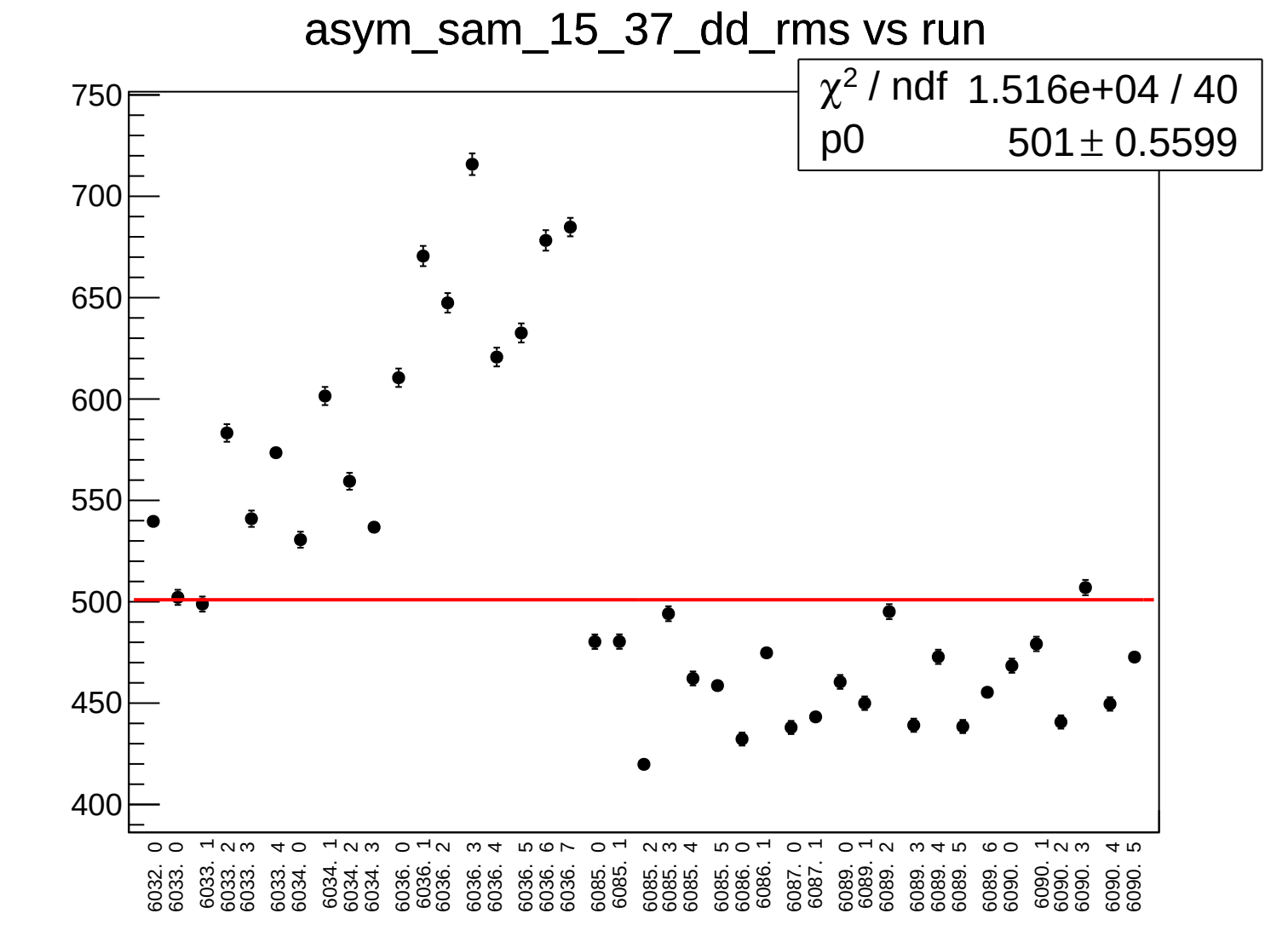

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 33.07 / 40
p0 −491.8 ± 778.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 21.12
Std Dev 32.32
2
1
0
−1
−2

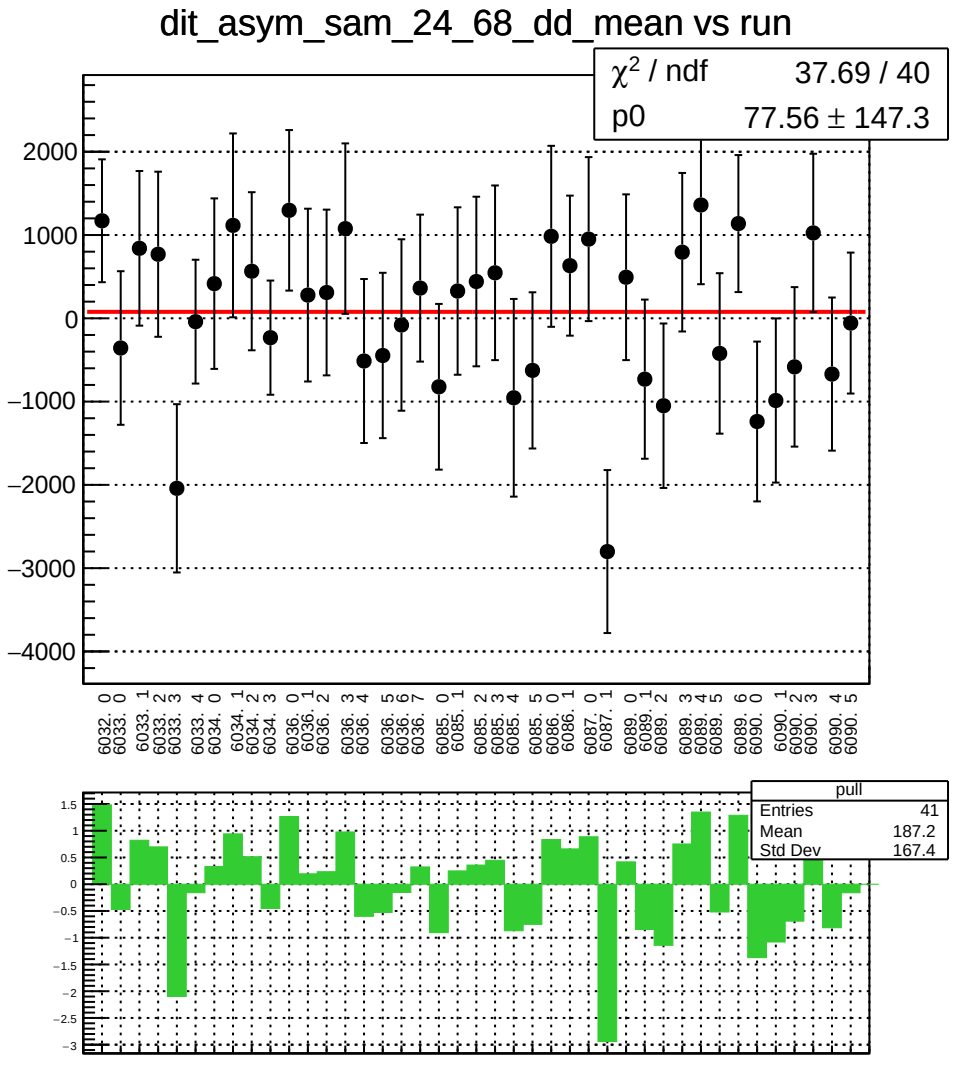

pull1D
Entries 41
Mean −0.02894
Std Dev 0.8977
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

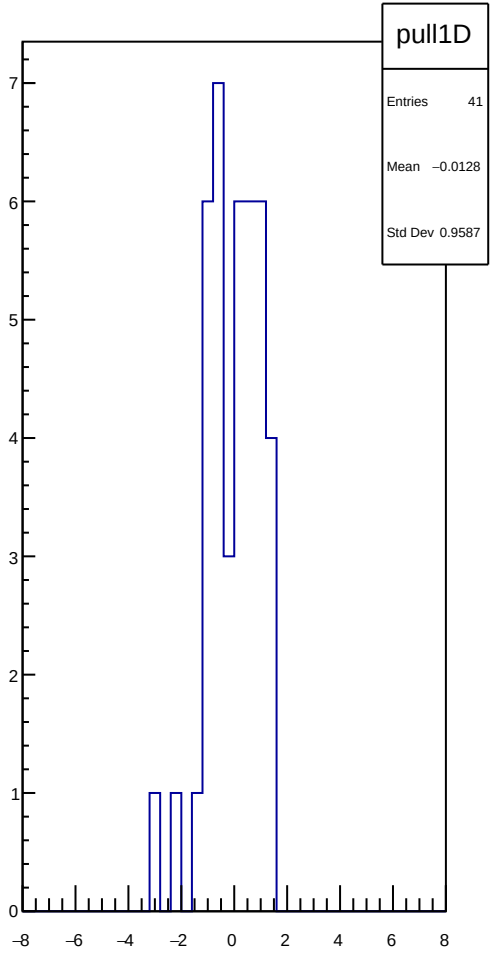

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.538e+04 / 40
p0 492.4 ± 0.5504
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

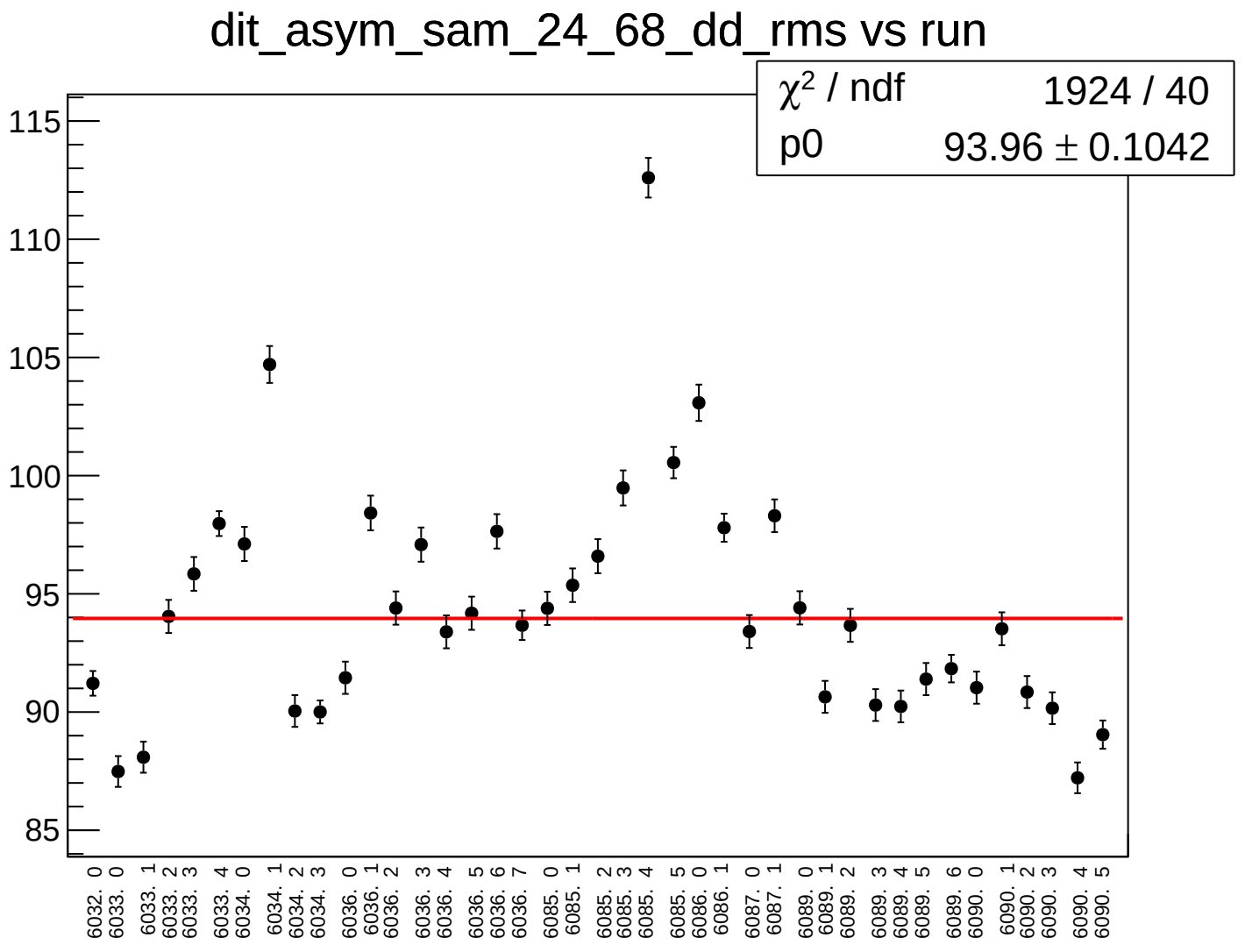

asym_sam_15_37_dd_mean vs run
χ² / ndf 33.55 / 40
p0 489.8 ± 791.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 21.5
Std Dev 32.51
2
1
0
−1
−2

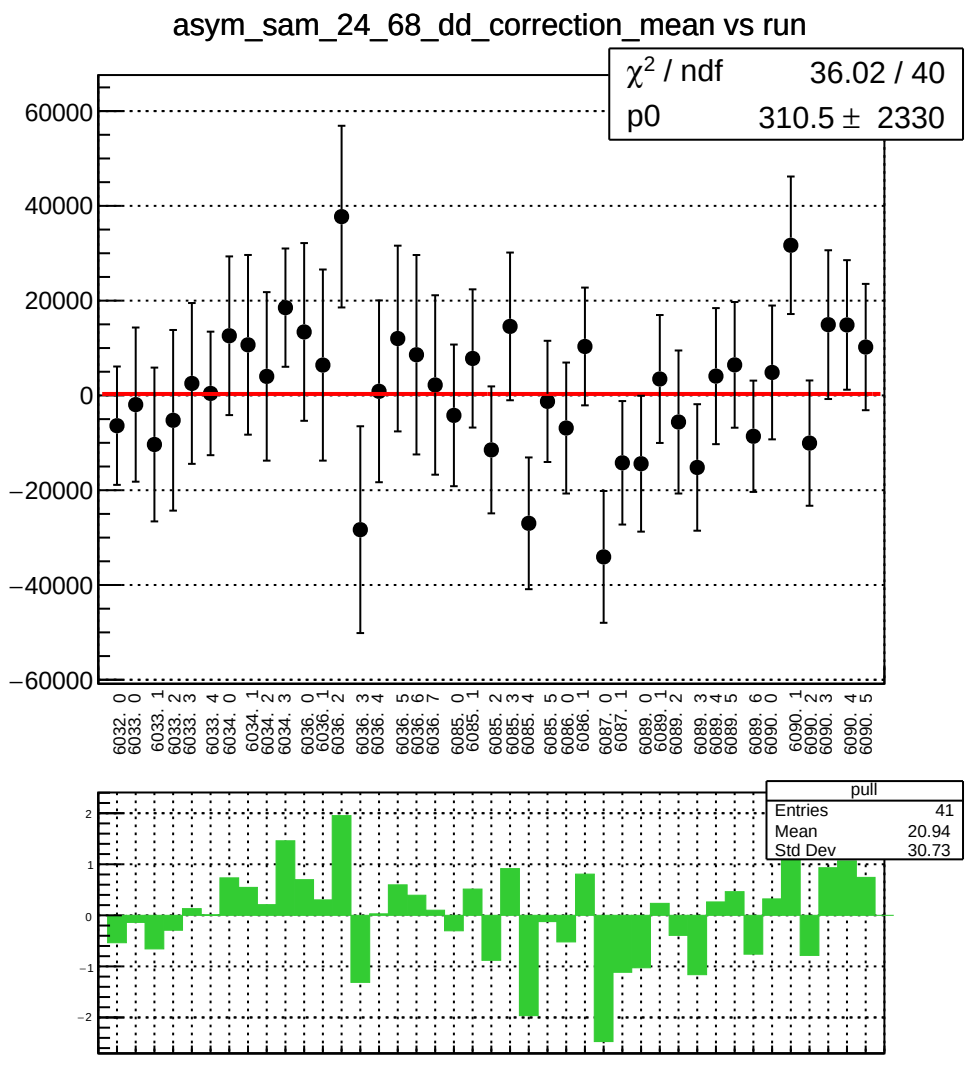

pull1D
Entries 41
Mean 0.02926
Std Dev 0.9041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

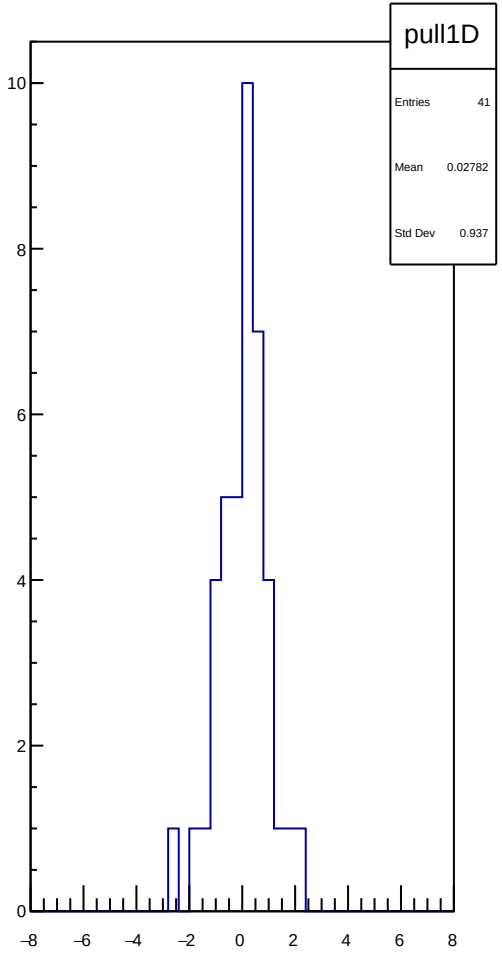

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.516e+04 / 40
p0 501 ± 0.5599
750
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

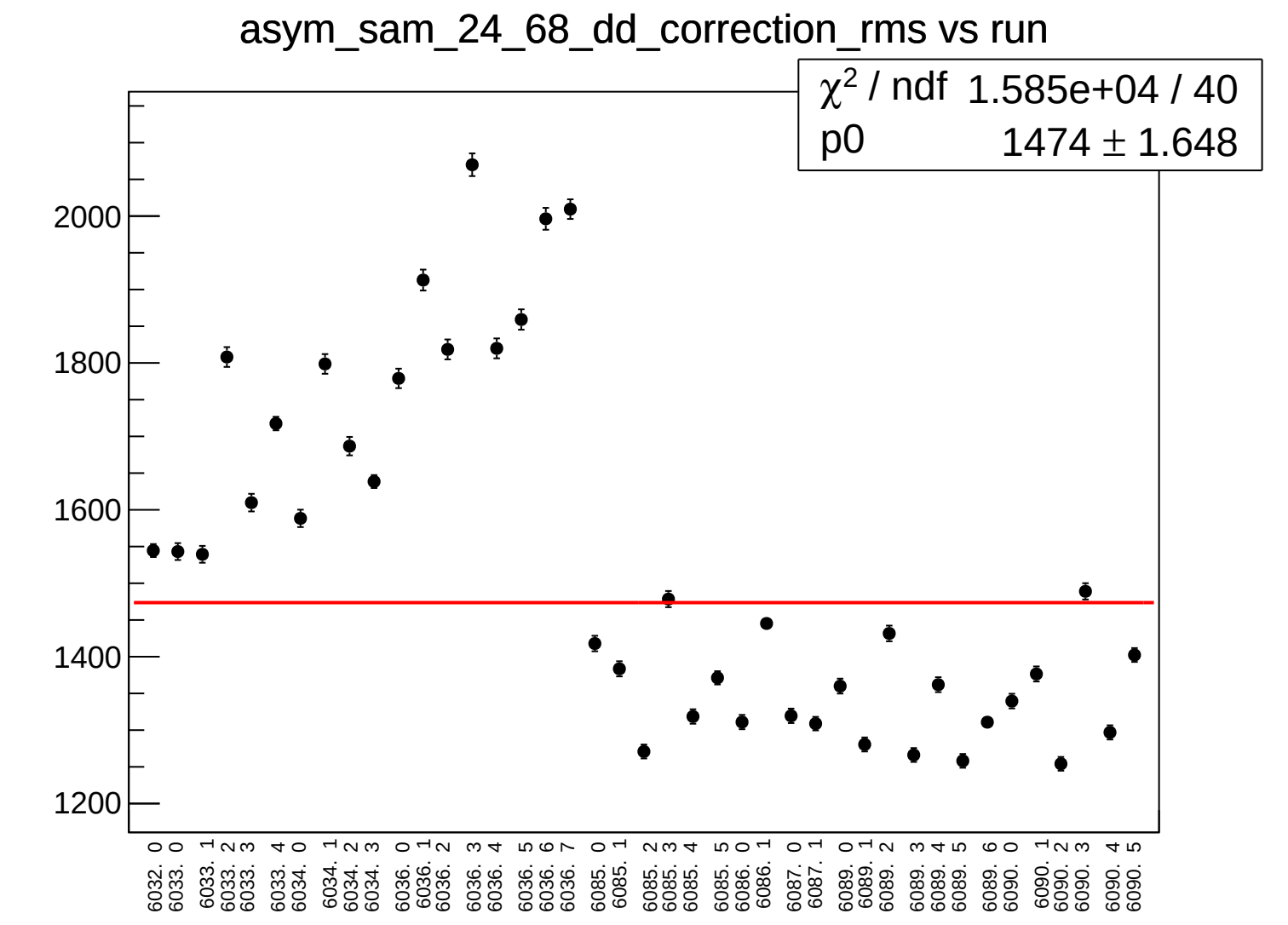

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 37.69 / 40
p0 77.56 ± 147.3
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 187.2
Std Dev 167.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

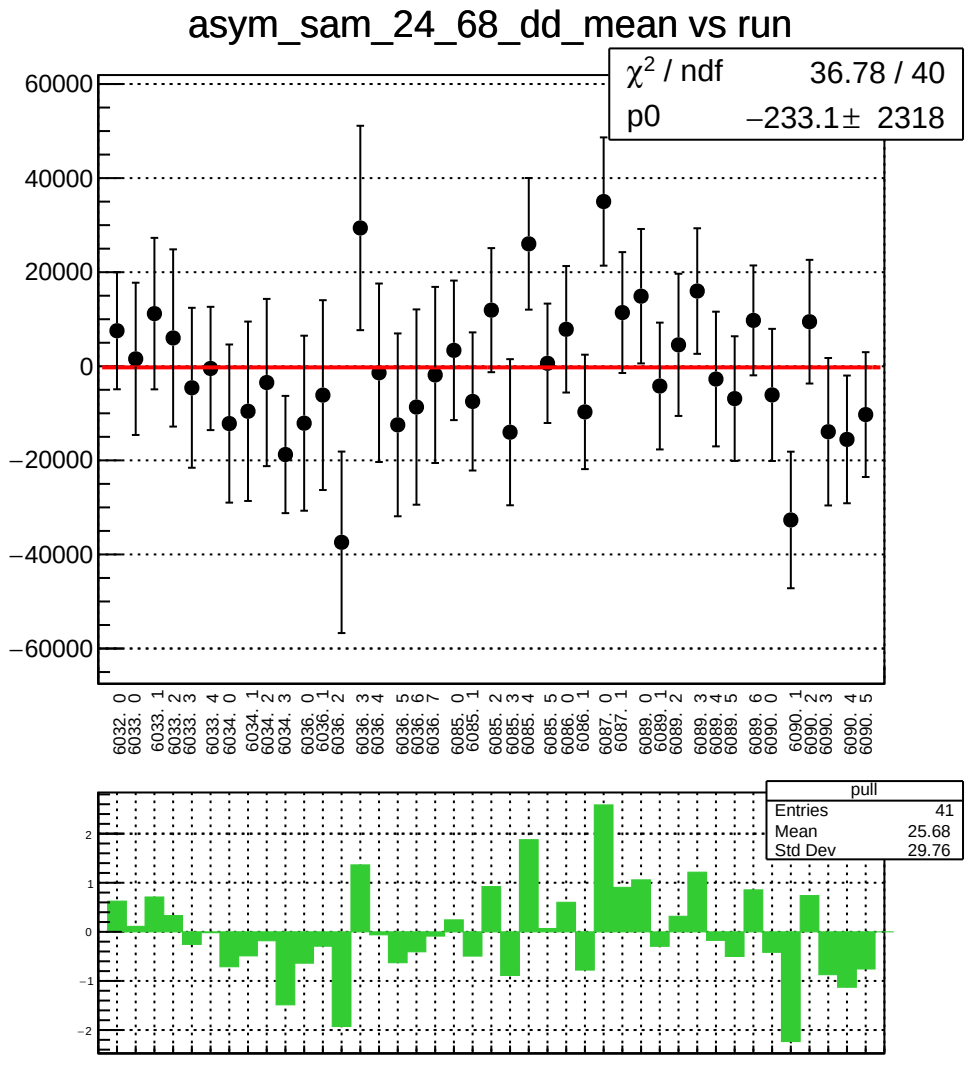

pull1D
Entries 41
Mean −0.0128
Std Dev 0.9587
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

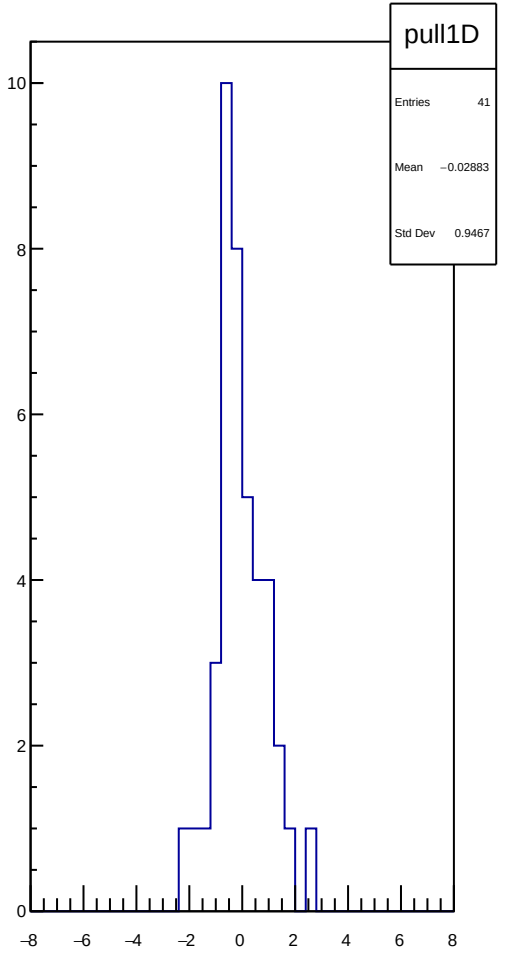

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1924 / 40
p0 93.96 ± 0.1042
115
110
105
100
95
90
85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

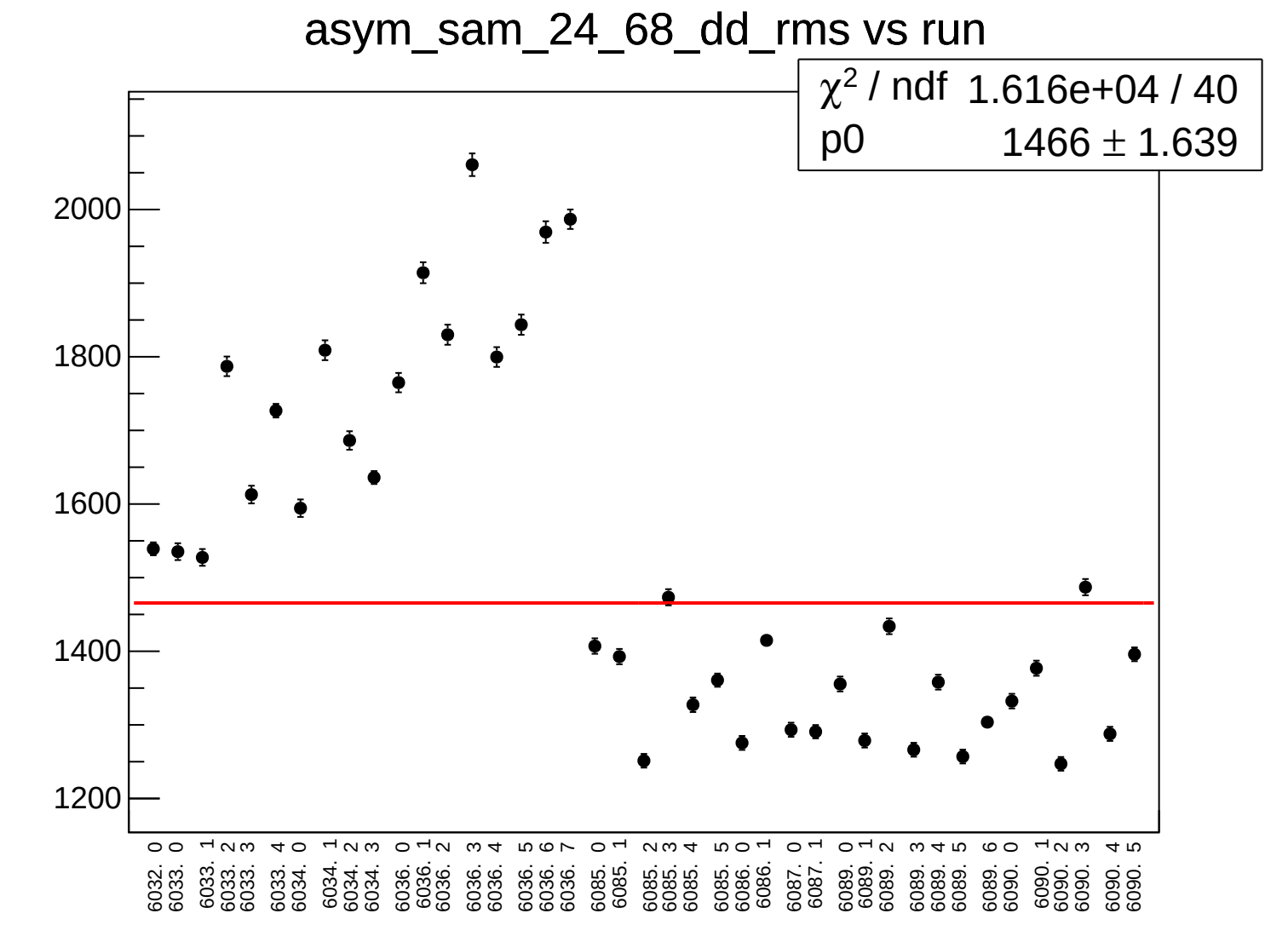

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 36.02 / 40
p0 310.5 ± 2330
pull
Entries 41
Mean 20.94
Std Dev 30.73

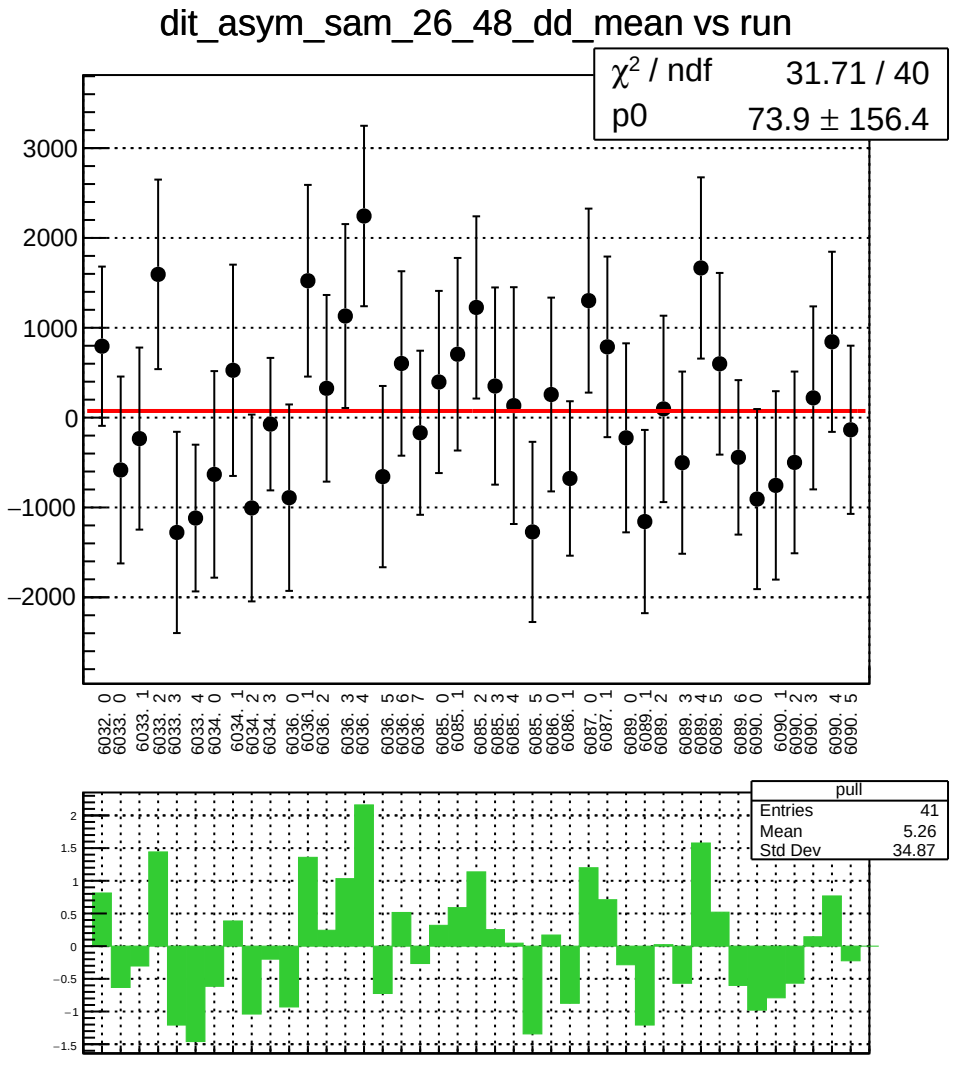

pull1D
Entries 41
Mean 0.02782
Std Dev 0.937

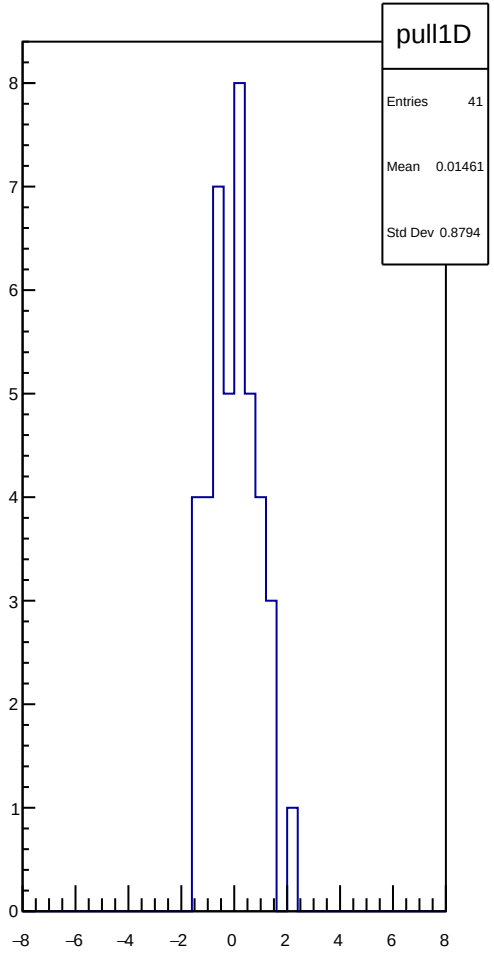

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.585e+04 / 40
p0 1474 ± 1.648
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

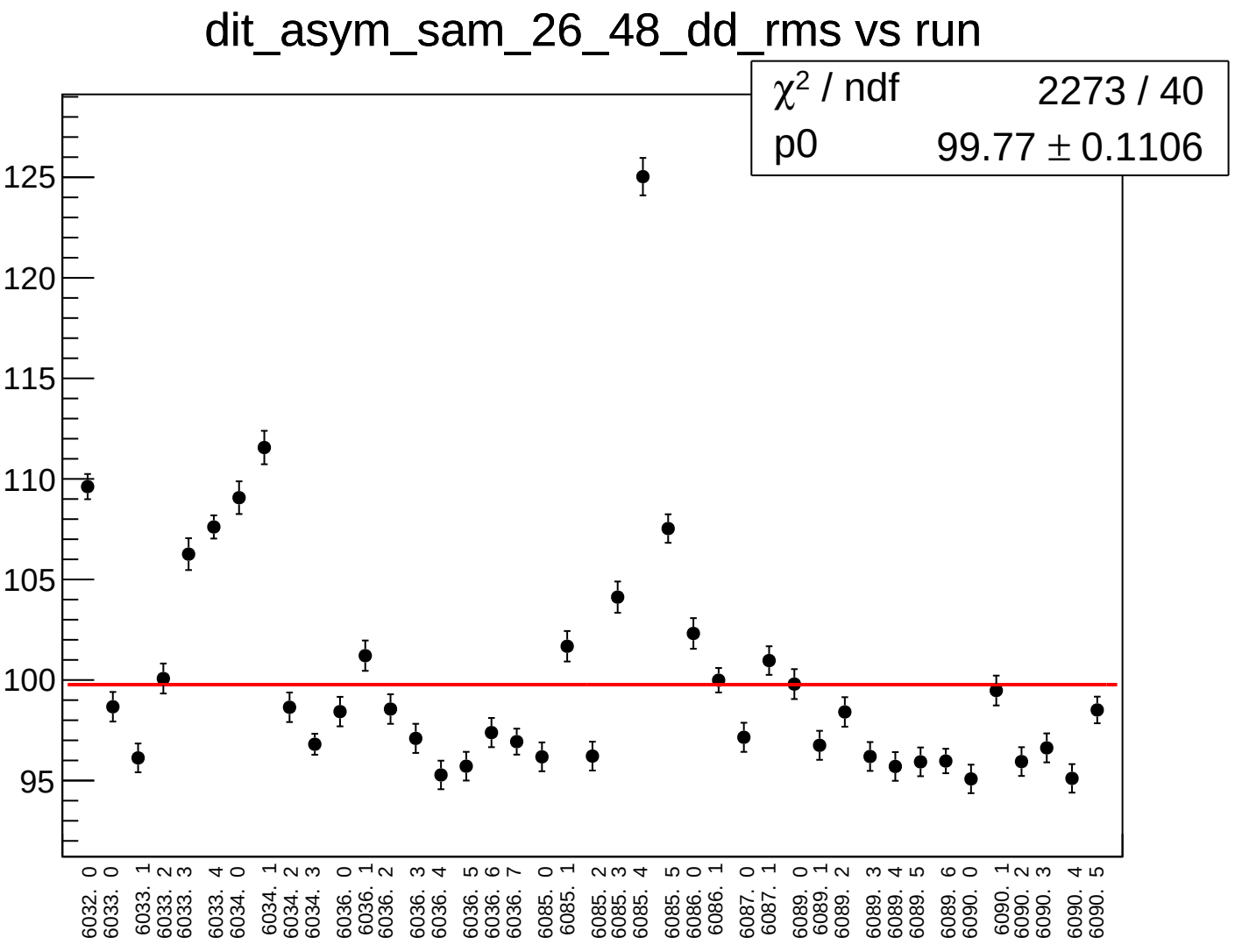

asym_sam_24_68_dd_mean vs run
χ² / ndf 36.78 / 40
p0 −233.1± 2318
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 25.68
Std Dev 29.76
2
1
0
−1
−2

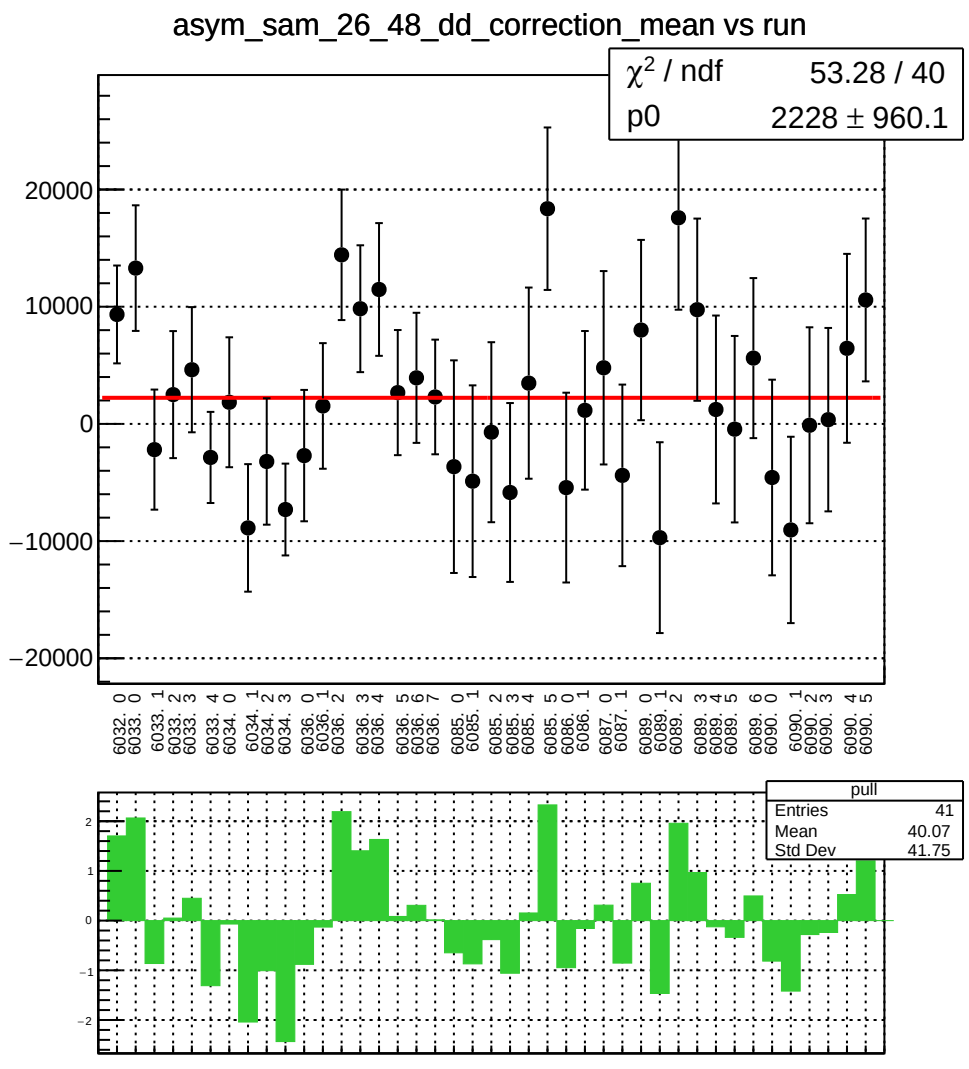

pull1D
Entries 41
Mean −0.02883
Std Dev 0.9467
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

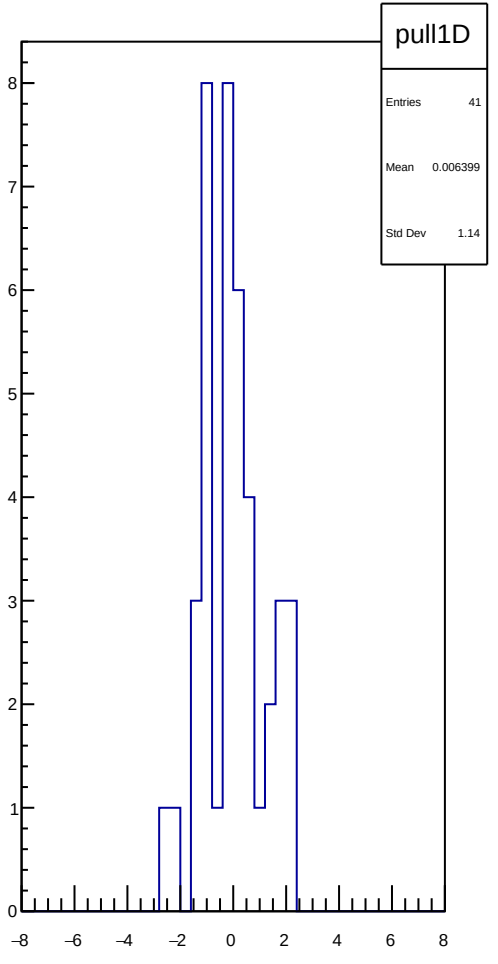

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.616e+04 / 40
p0 1466 ± 1.639
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

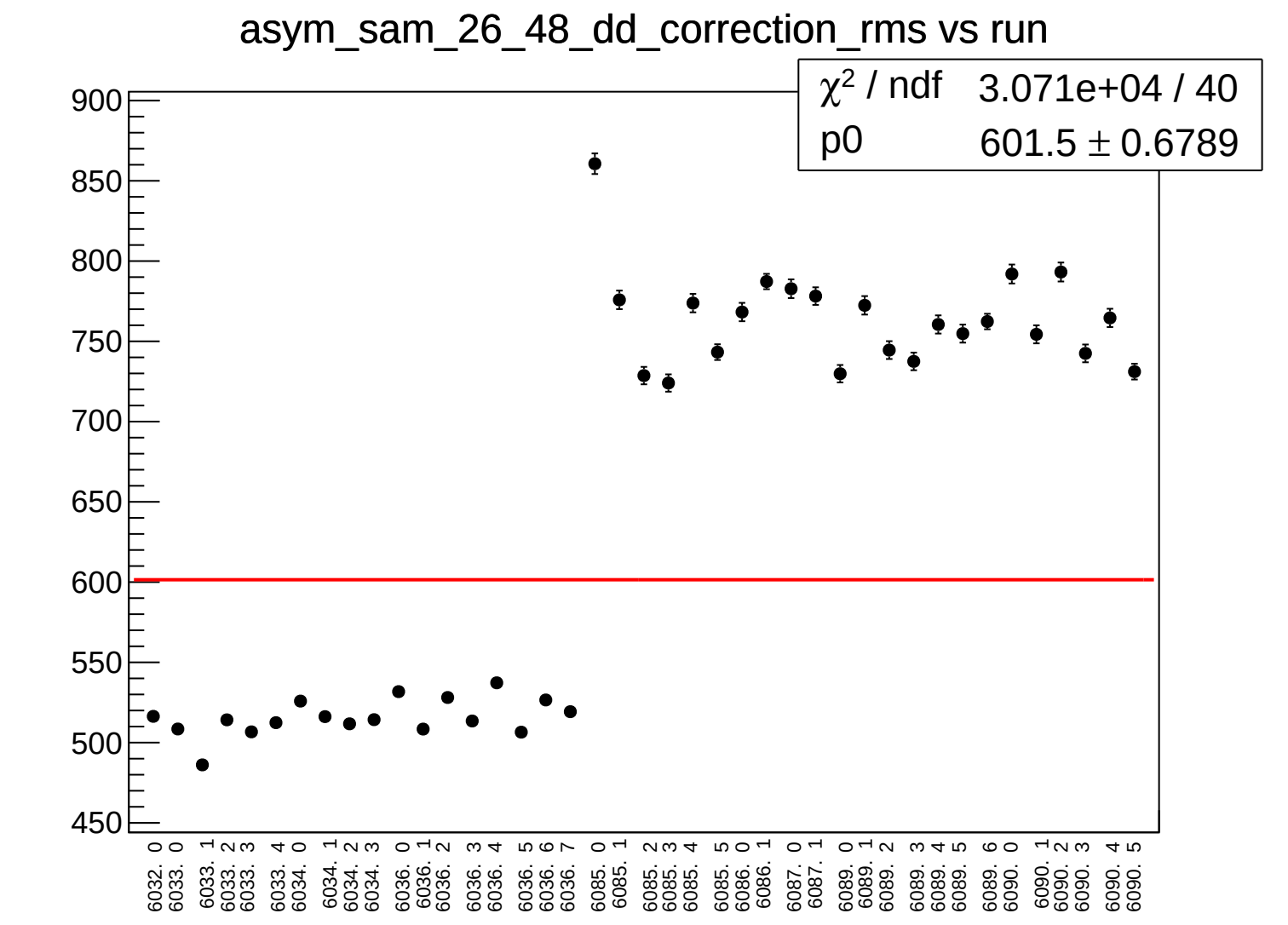

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 31.71 / 40
p0 73.9 ± 156.4
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 5.26
Std Dev 34.87
2
1.5
1
0.5
0
−0.5
−1
−1.5

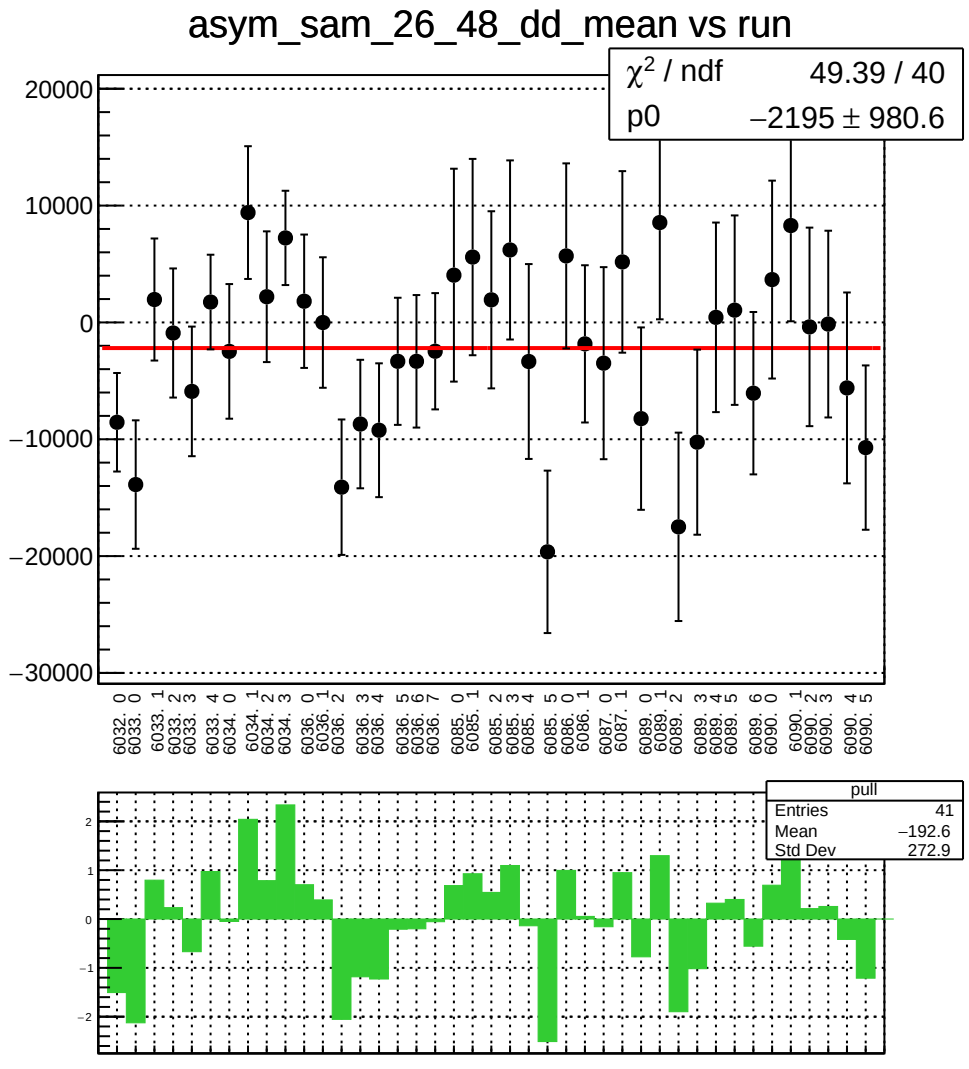

pull1D
Entries 41
Mean 0.01461
Std Dev 0.8794
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

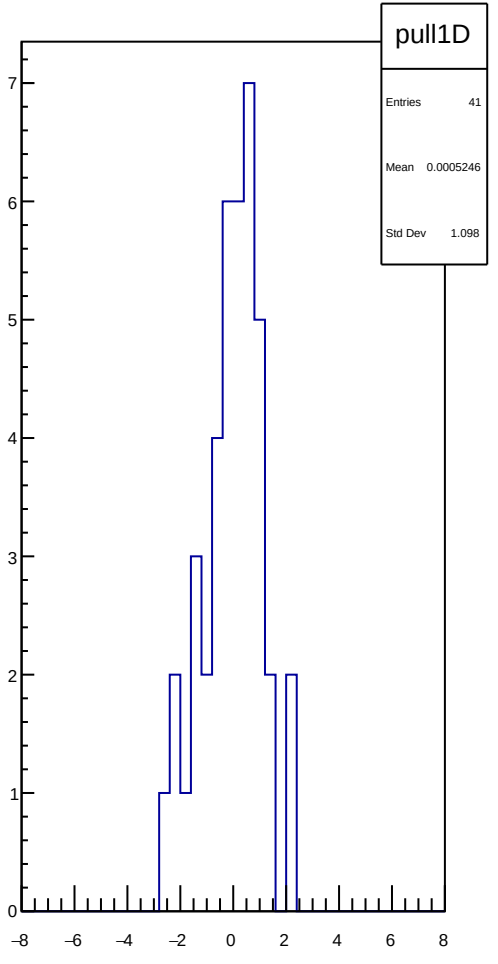

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2273 / 40
p0 99.77 ± 0.1106
125
120
115
110
105
100
95
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

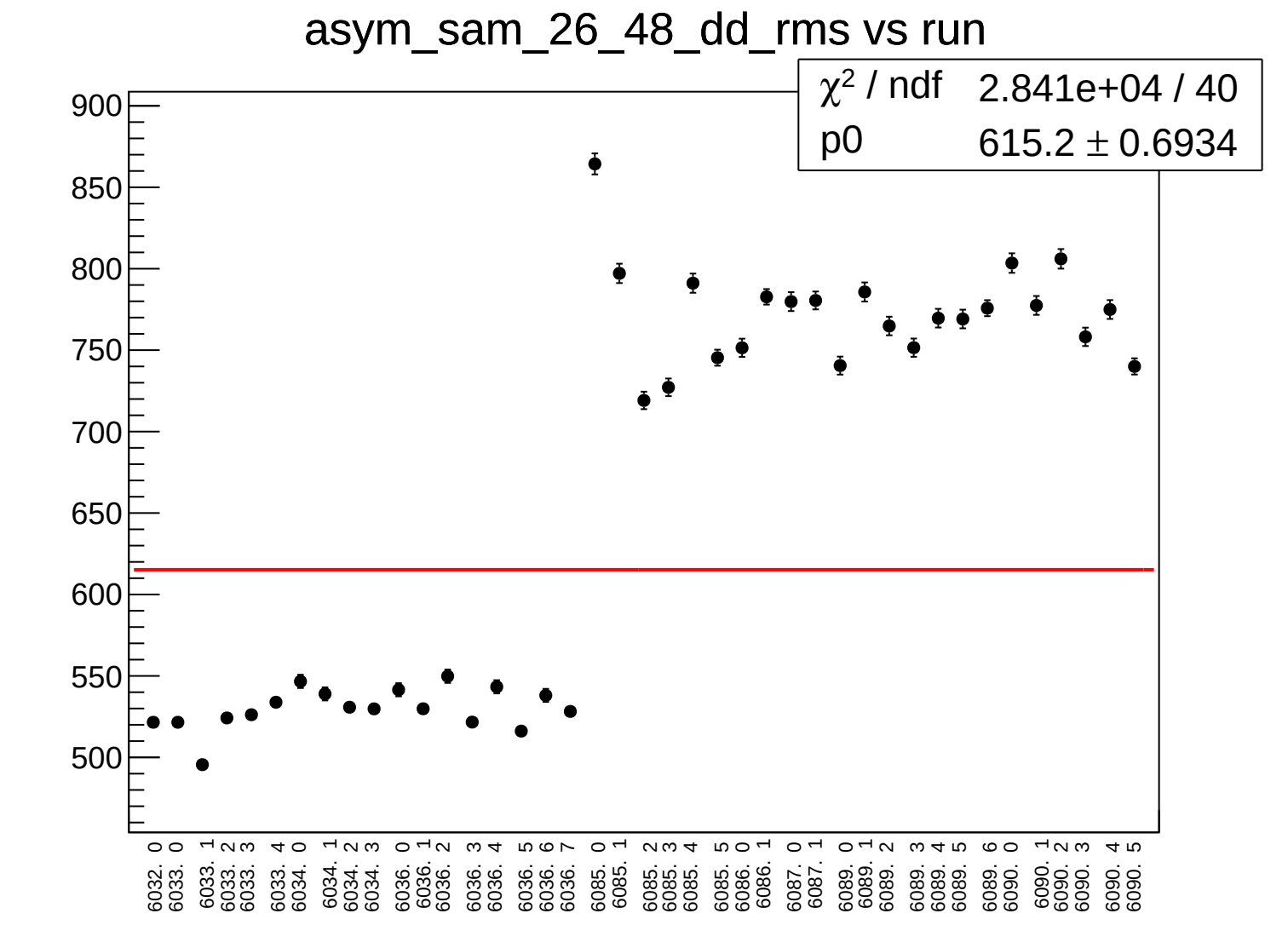

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 53.28 / 40
p0 2228 ± 960.1
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 40.07
Std Dev 41.75
2
1
0
−1
−2

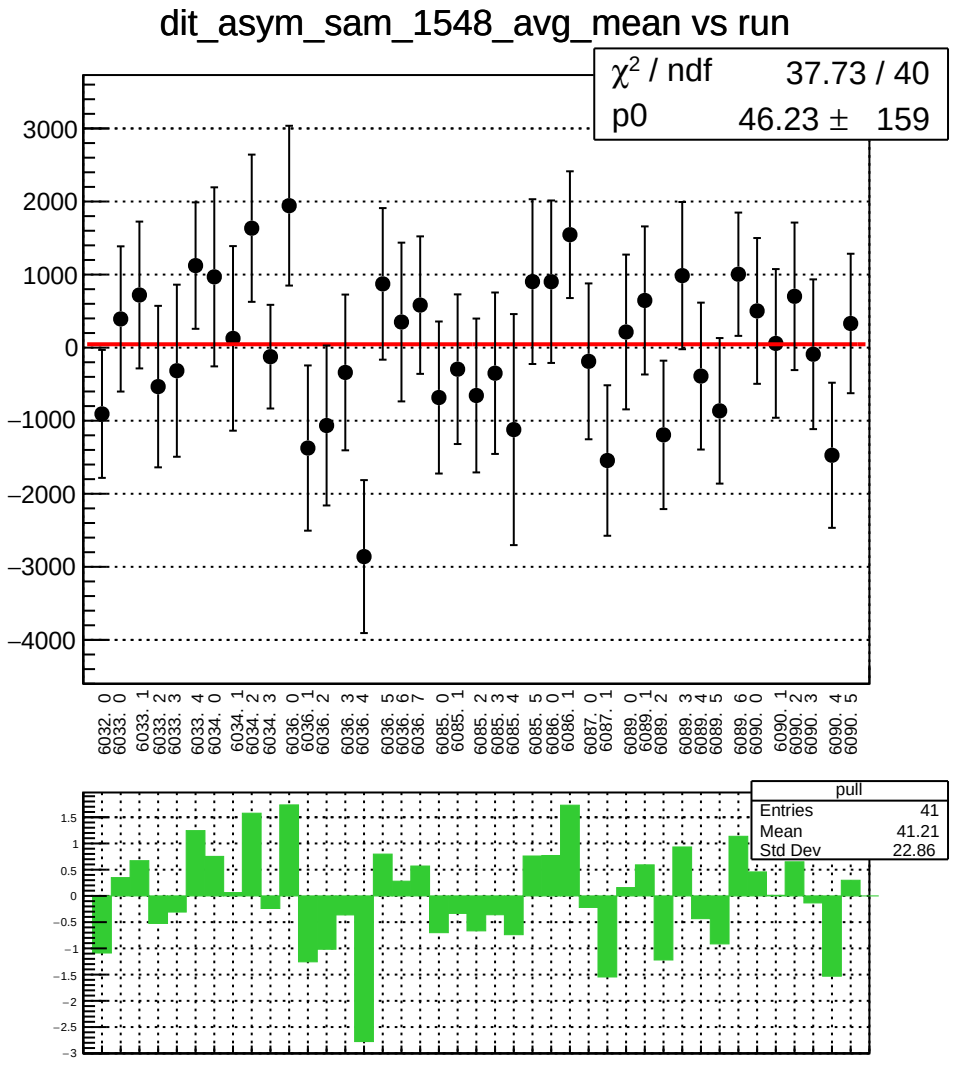

pull1D
Entries 41
Mean 0.006399
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

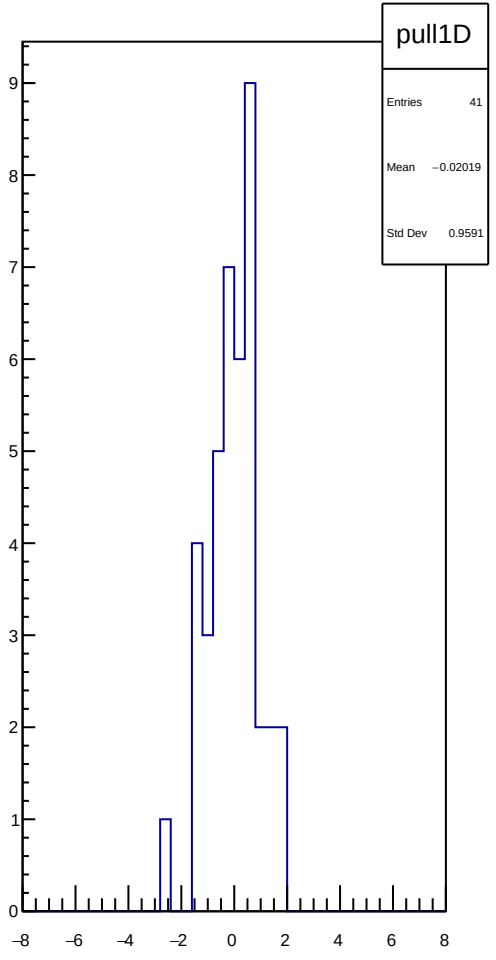

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3.071e+04 / 40
p0 601.5 ± 0.6789
900
850
800
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

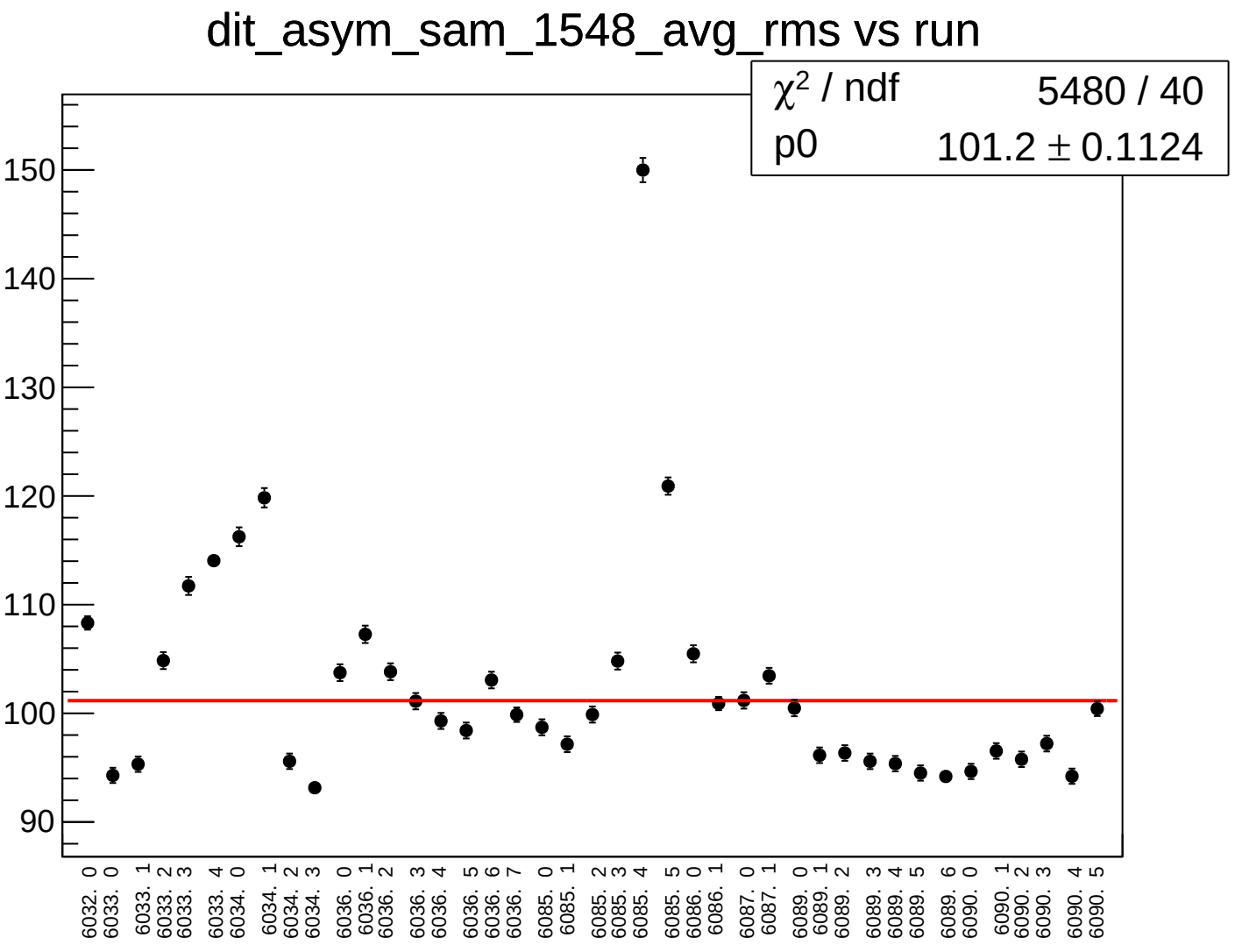

asym_sam_26_48_dd_mean vs run
χ² / ndf 49.39 / 40
p0 −2195 ± 980.6
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −192.6
Std Dev 272.9
2
1
0
−1
−2

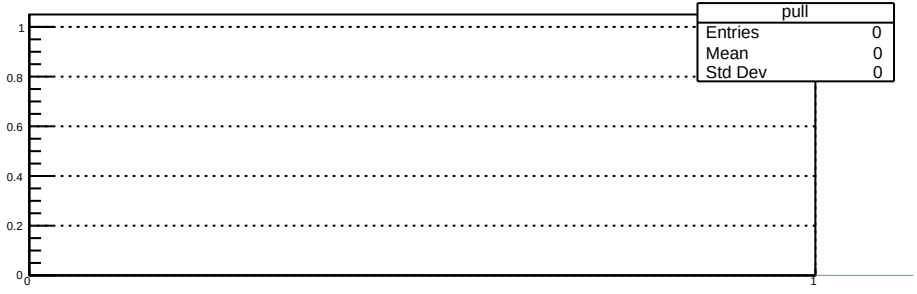

pull1D
Entries 41
Mean 0.0005246
Std Dev 1.098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

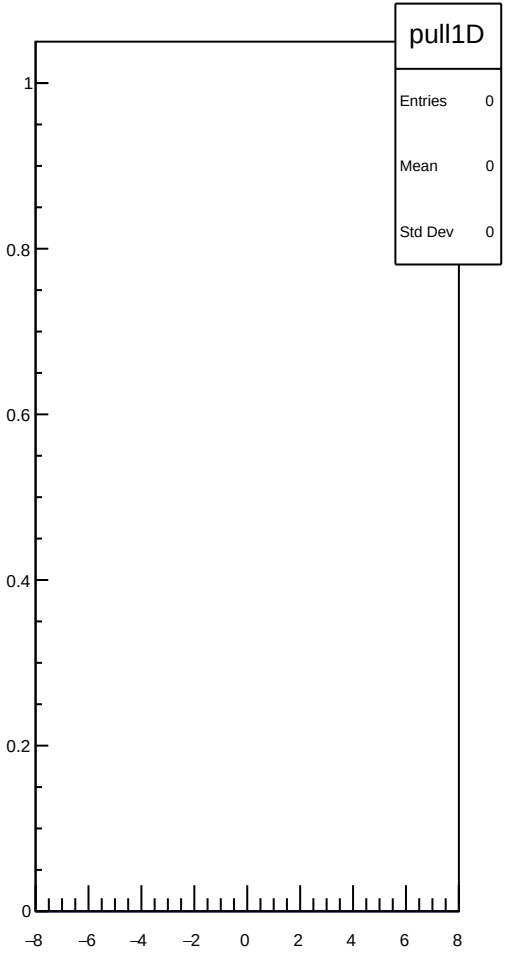

asym_sam_26_48_dd_rms vs run
χ² / ndf 2.841e+04 / 40
p0 615.2 ± 0.6934
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

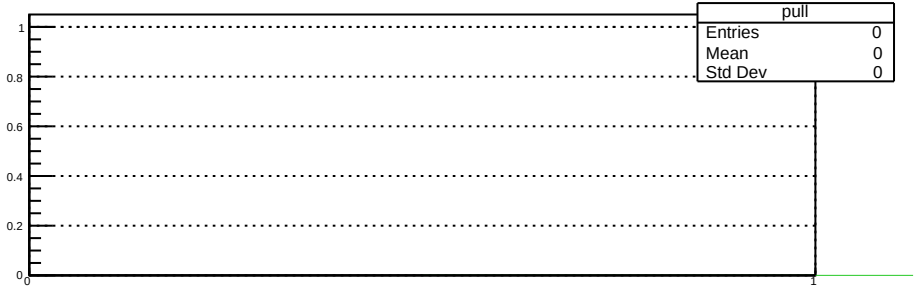

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 37.73 / 40
p0 46.23 ± 159
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 41.21
Std Dev 22.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

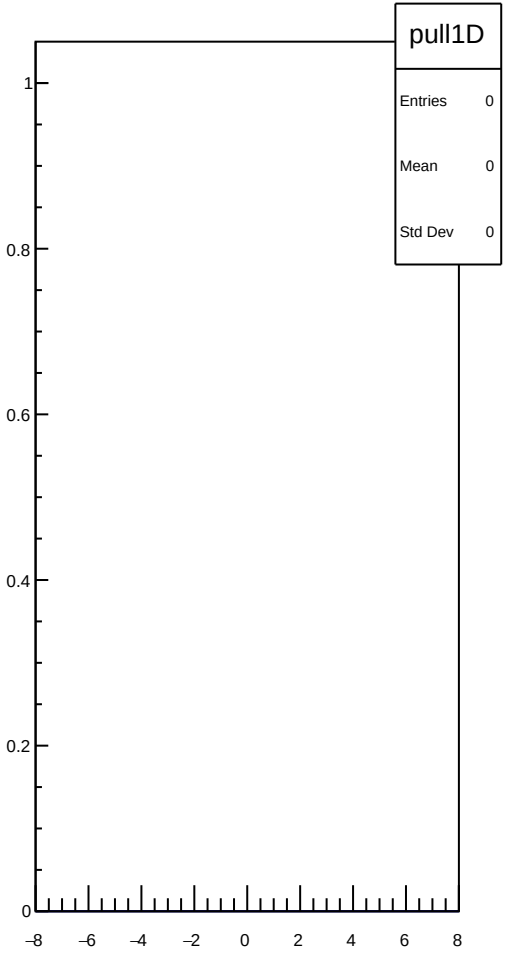

pull1D
Entries 41
Mean −0.02019
Std Dev 0.9591
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

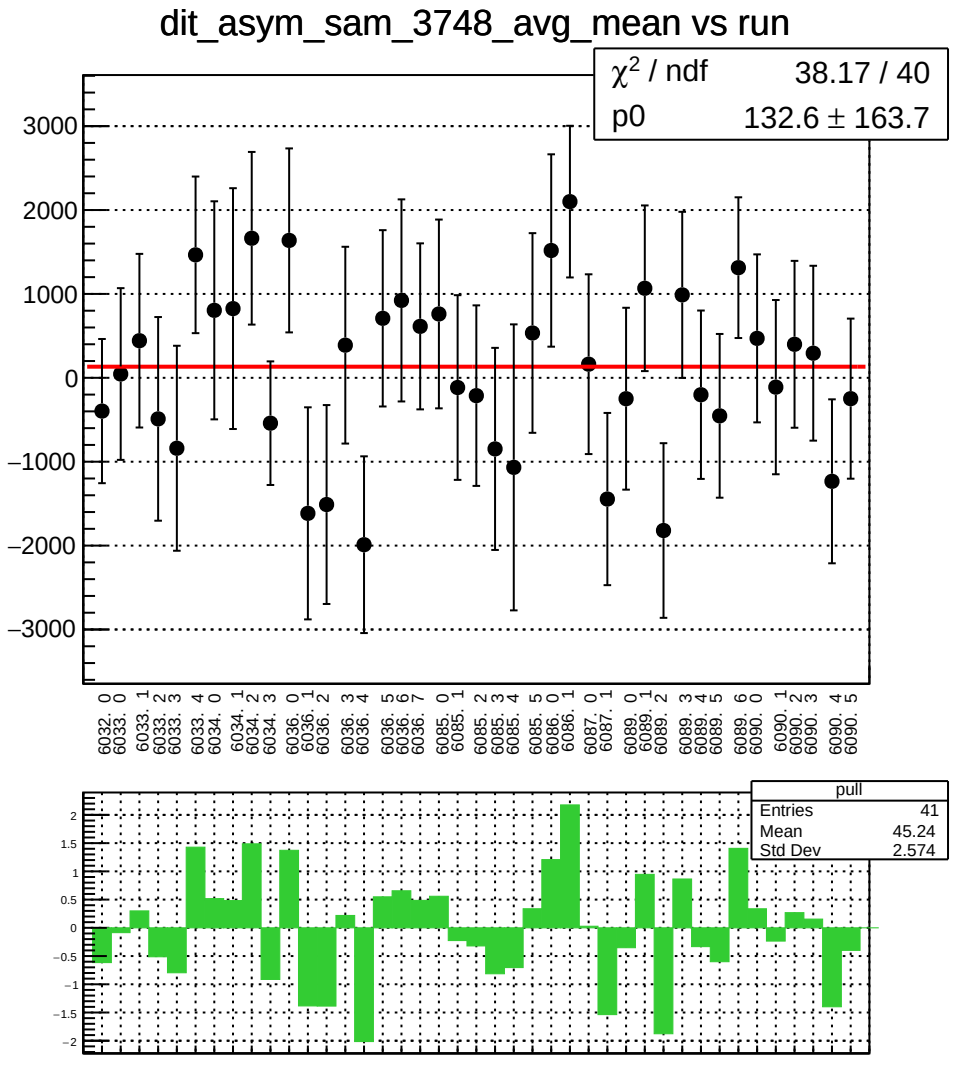

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5480 / 40
p0 101.2 ± 0.1124
150
140
130
120
110
100
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

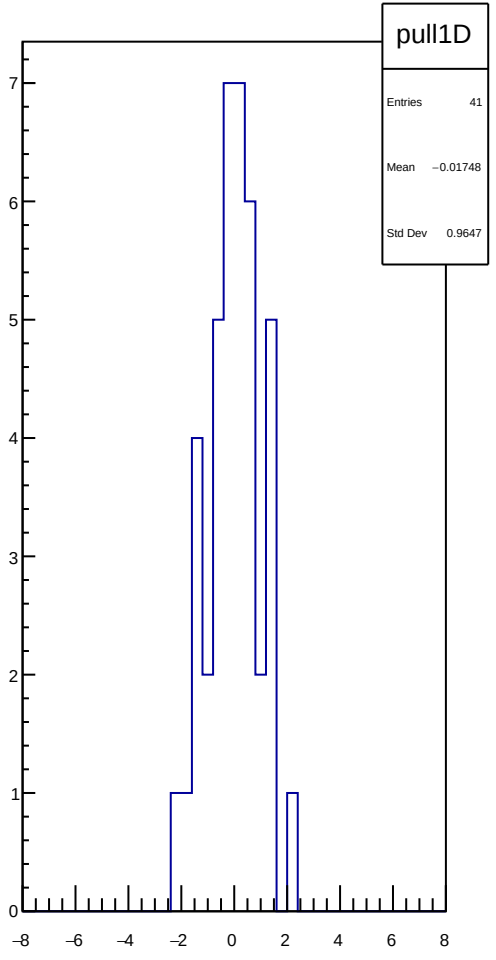

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

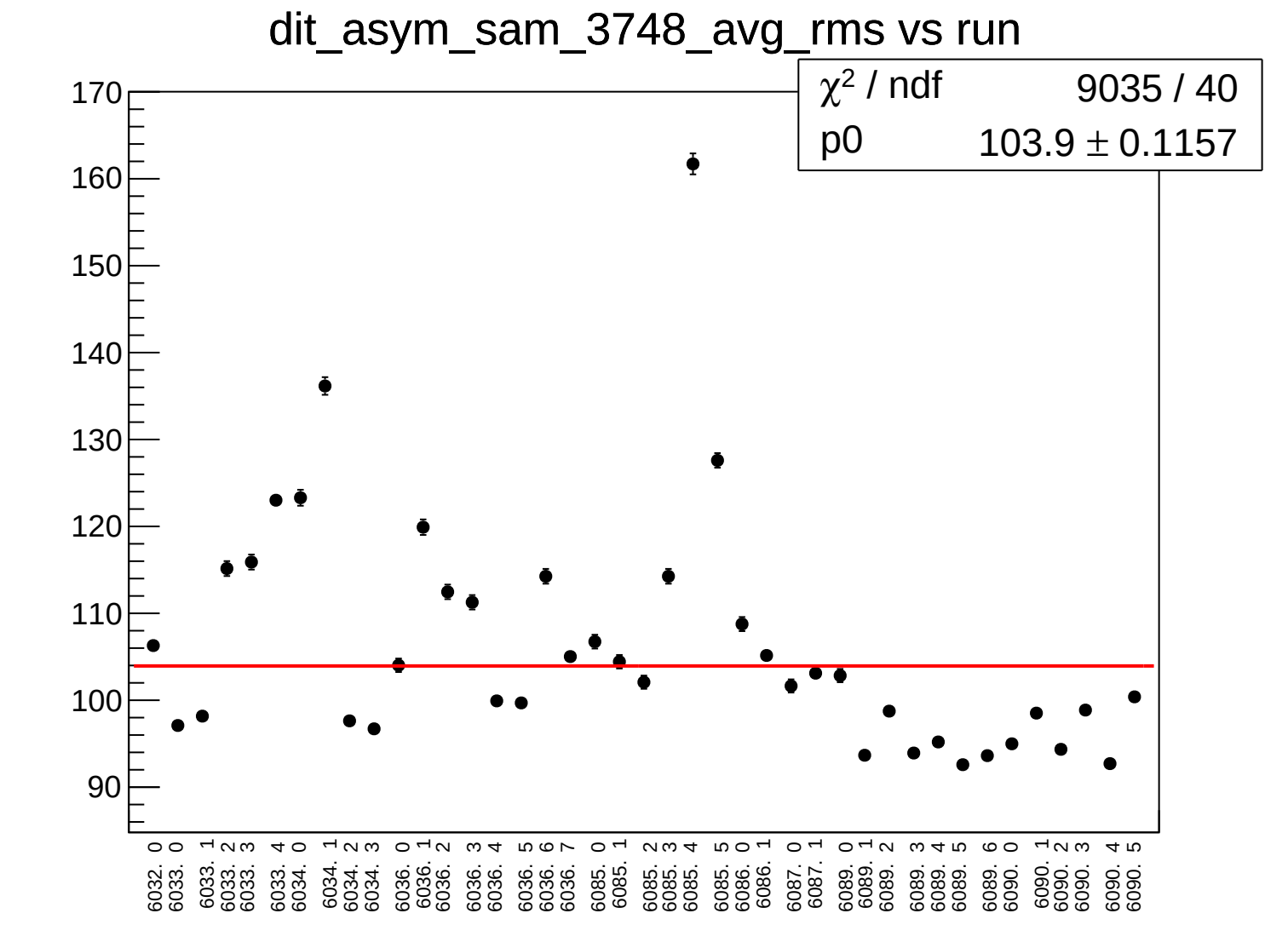

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

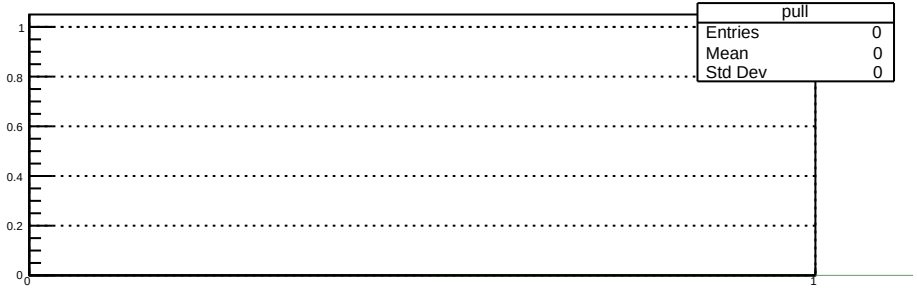

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

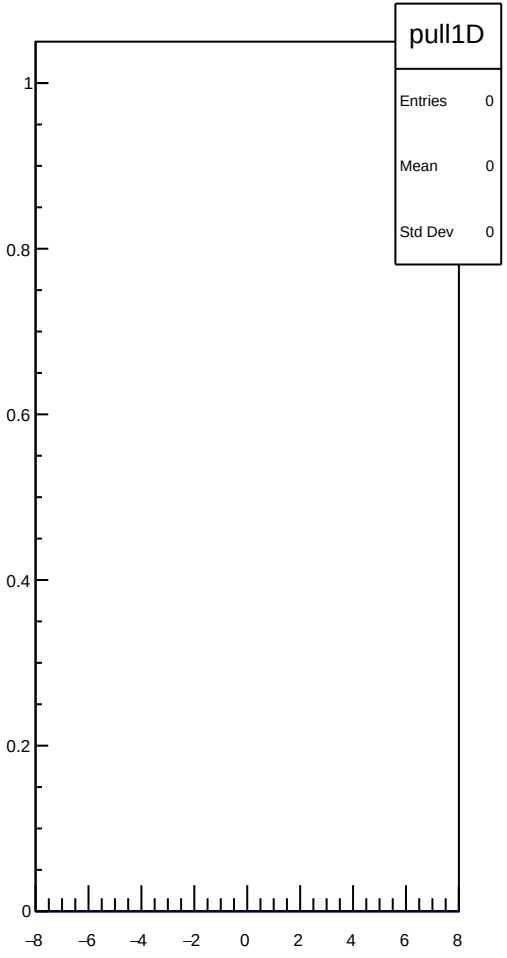

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

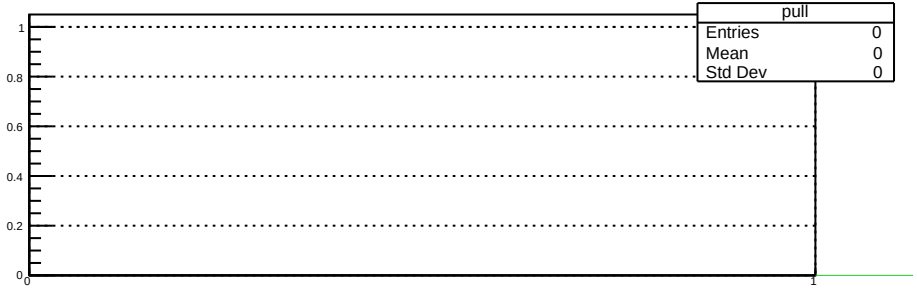

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 38.17 / 40
p0 132.6 ± 163.7
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 45.24
Std Dev 2.574
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

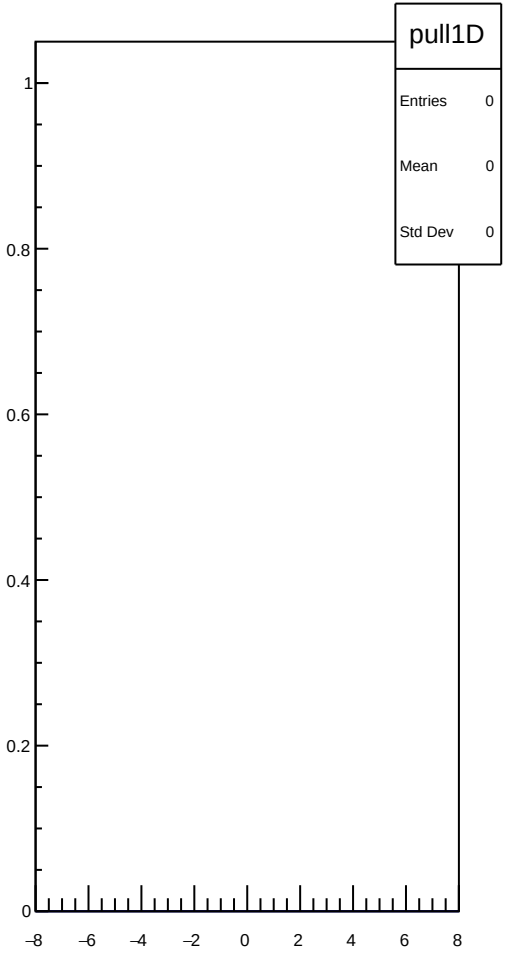

pull1D
Entries 41
Mean −0.01748
Std Dev 0.9647
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

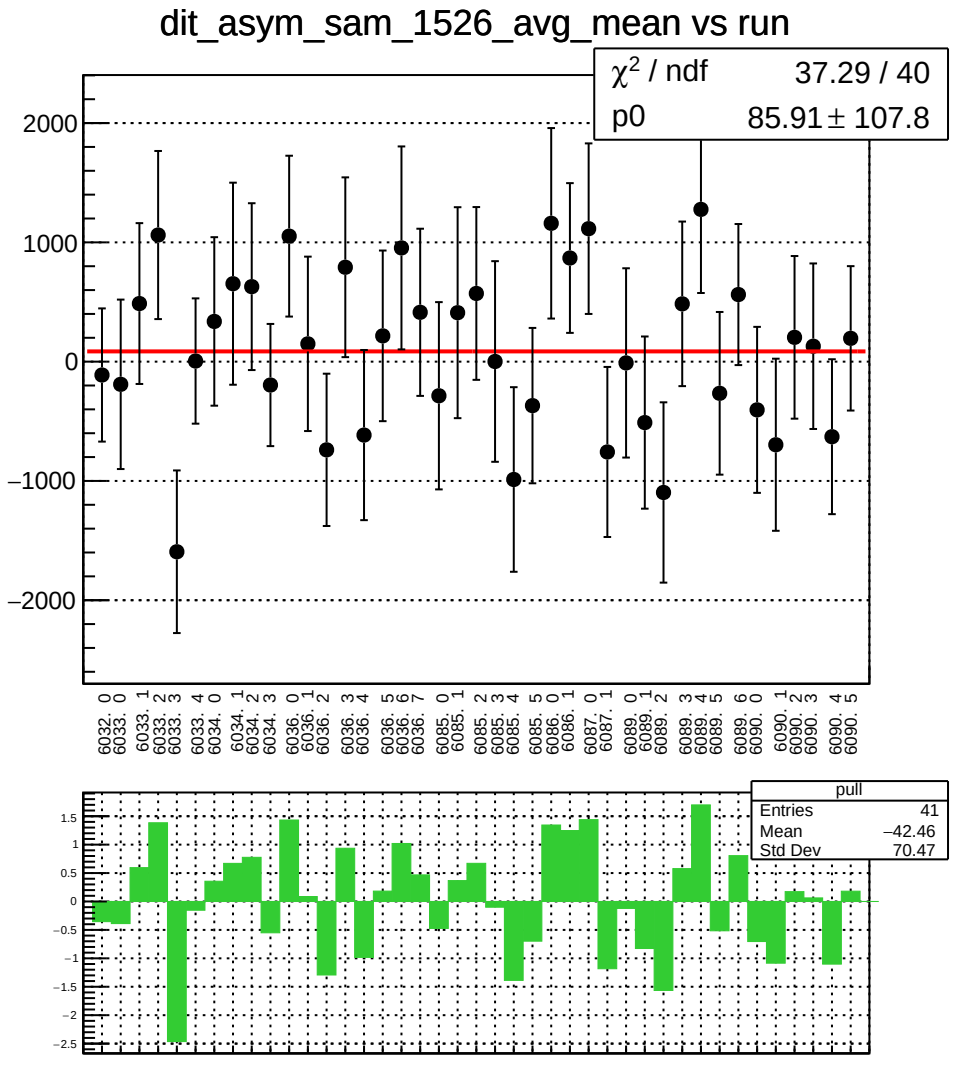

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 9035 / 40
p0 103.9 ± 0.1157
170
160
150
140
130
120
110
100
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

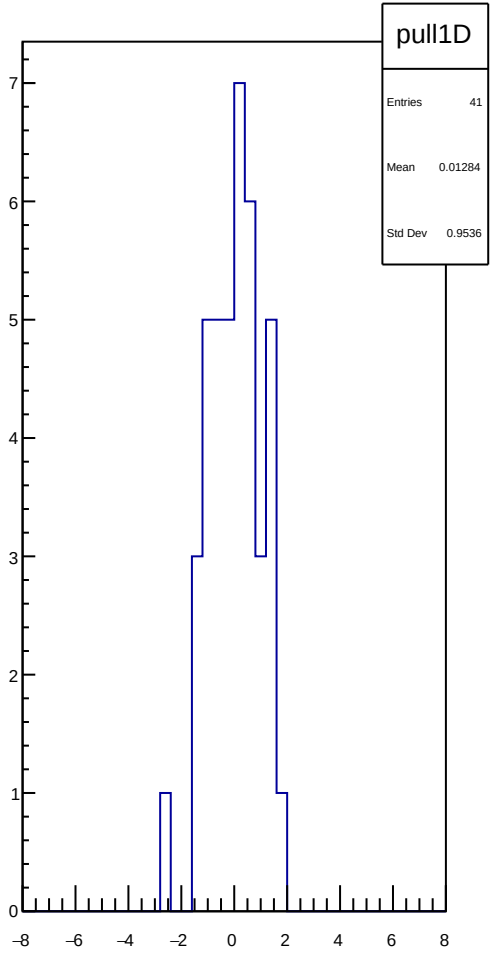

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

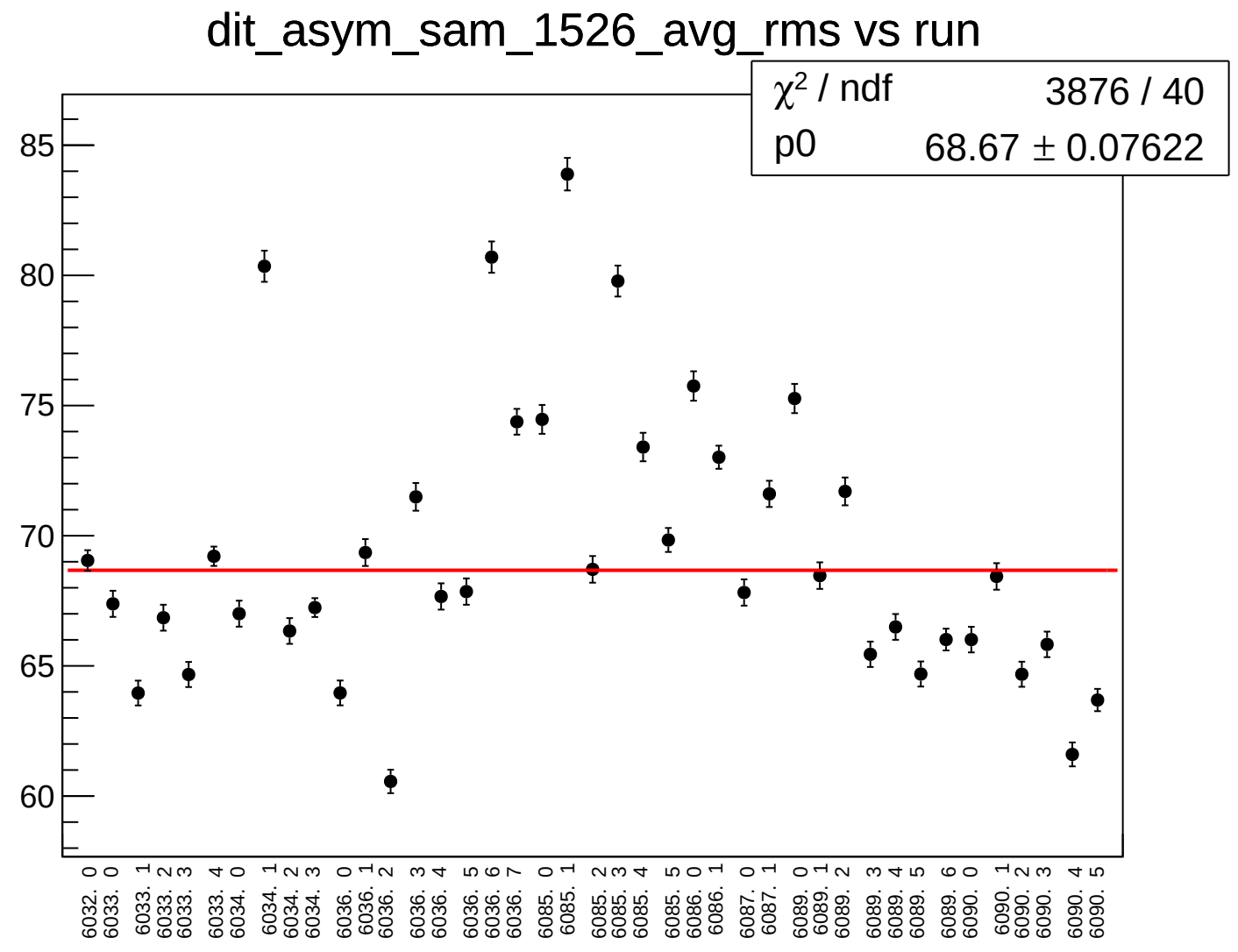

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

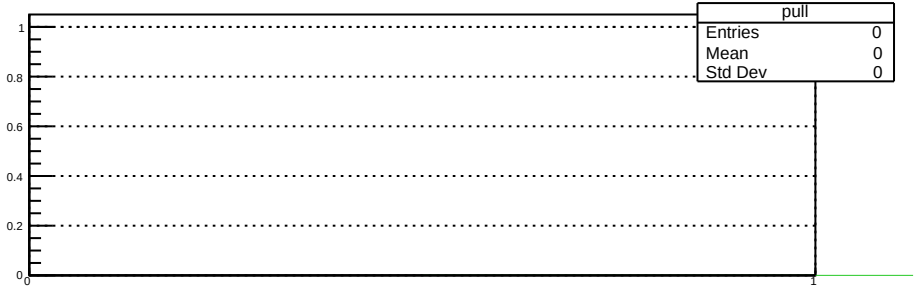

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

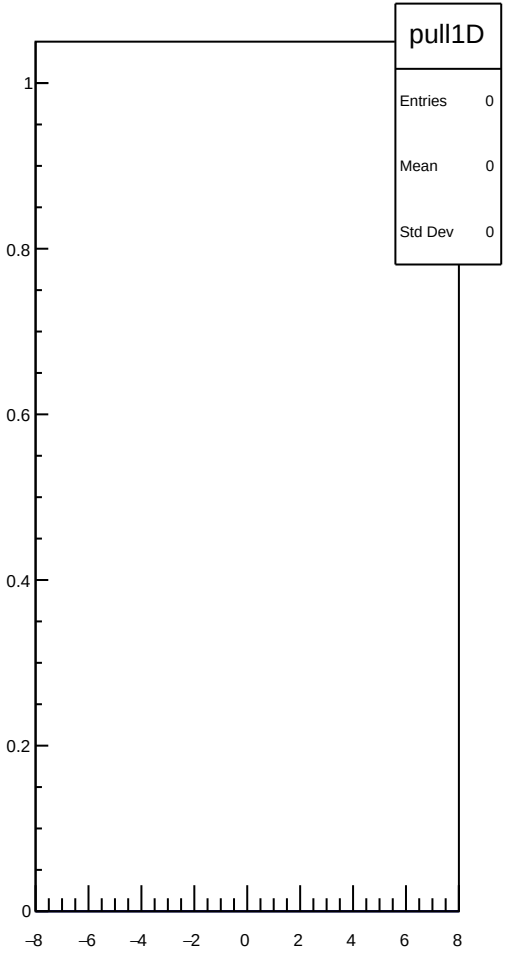

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

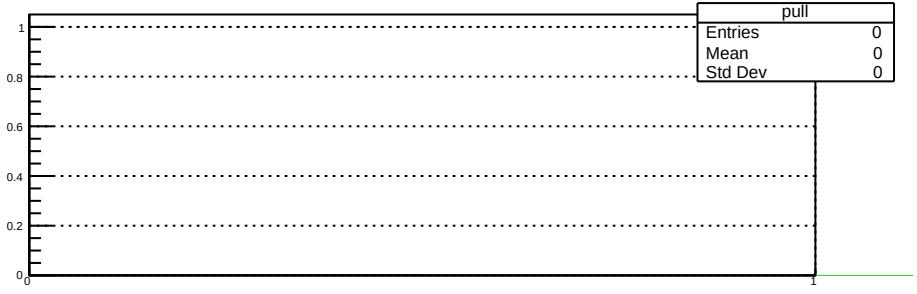

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 37.29 / 40
p0 85.91 ± 107.8
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −42.46
Std Dev 70.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

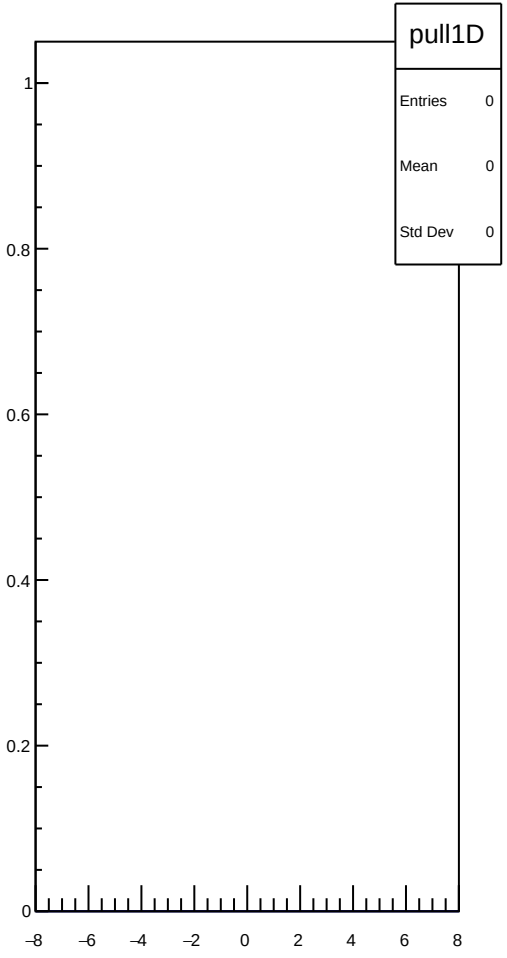

pull1D
Entries 41
Mean 0.01284
Std Dev 0.9536
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

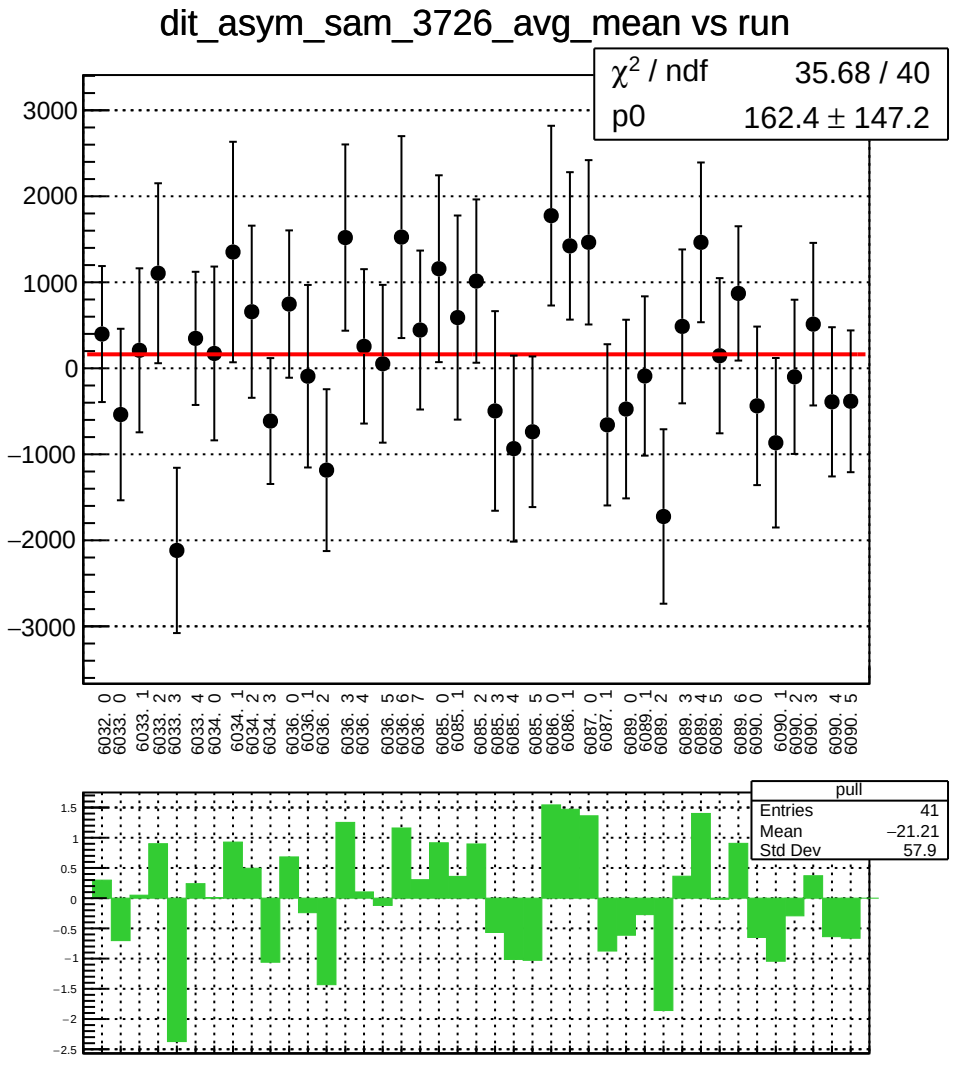

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3876 / 40
p0 68.67 ± 0.07622
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

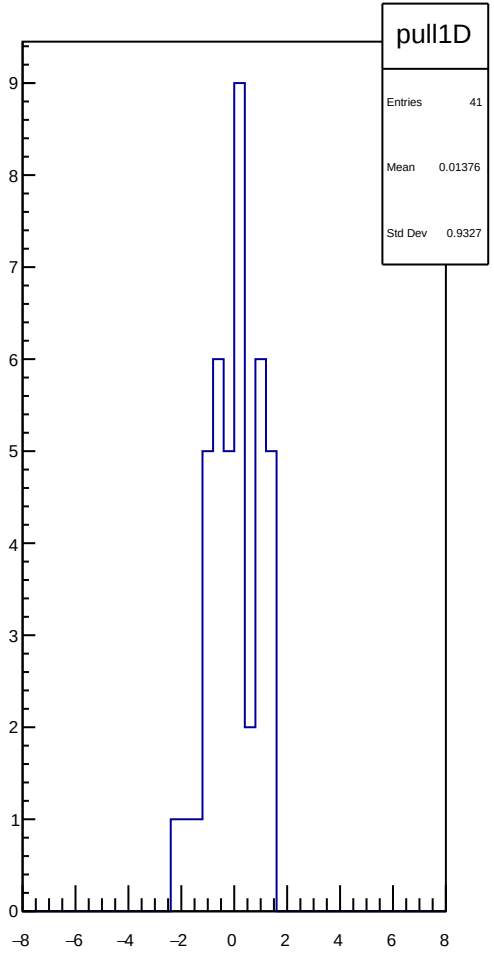

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

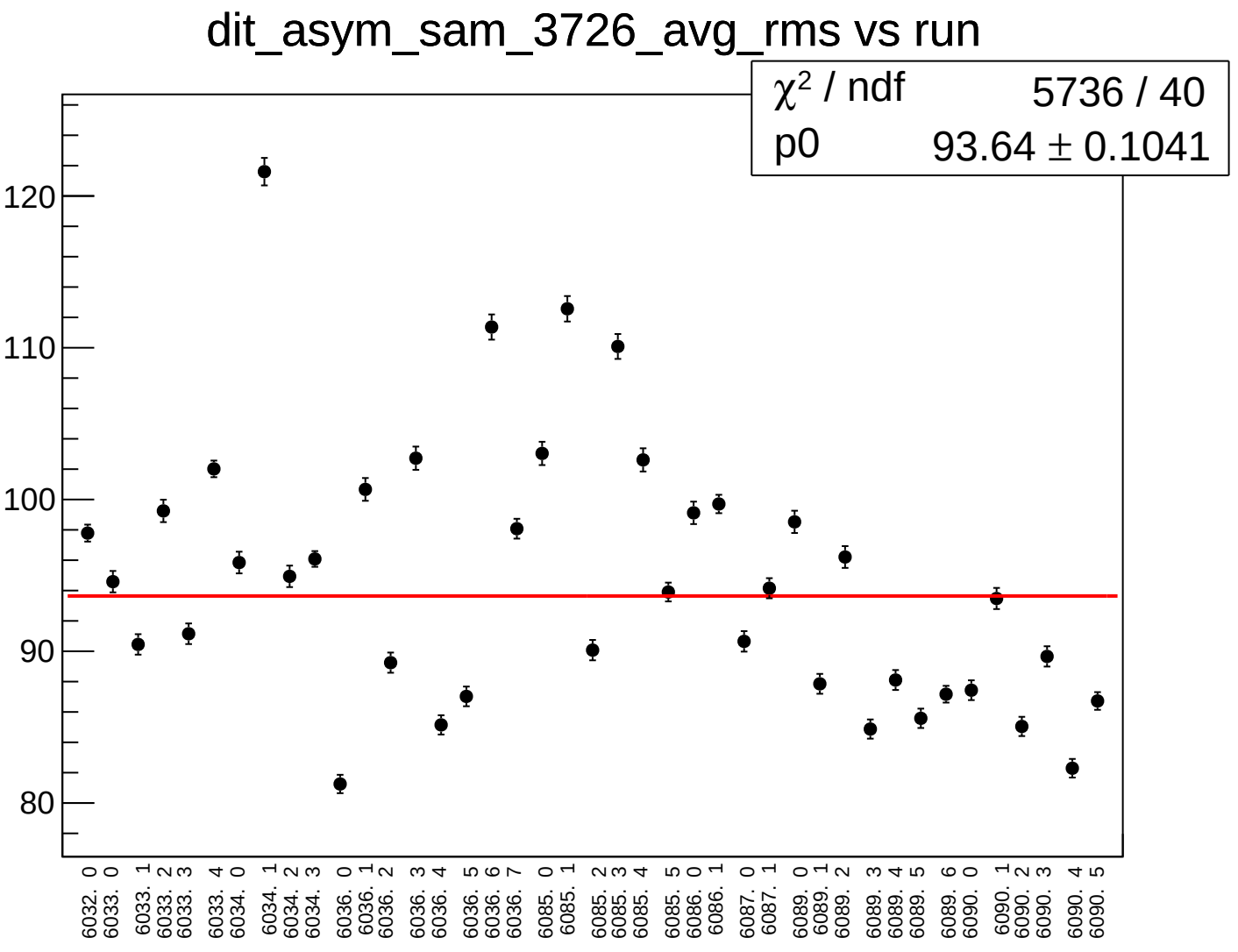

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

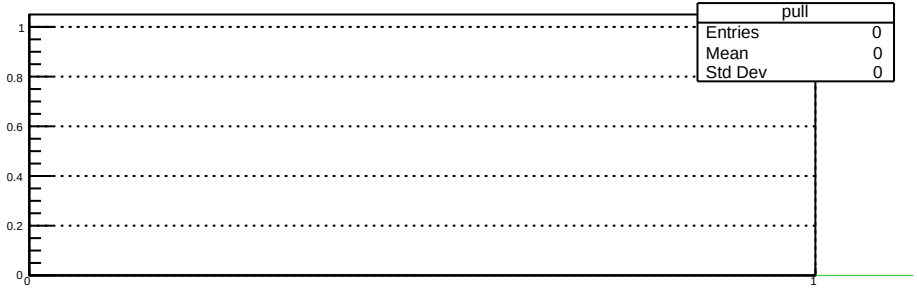

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

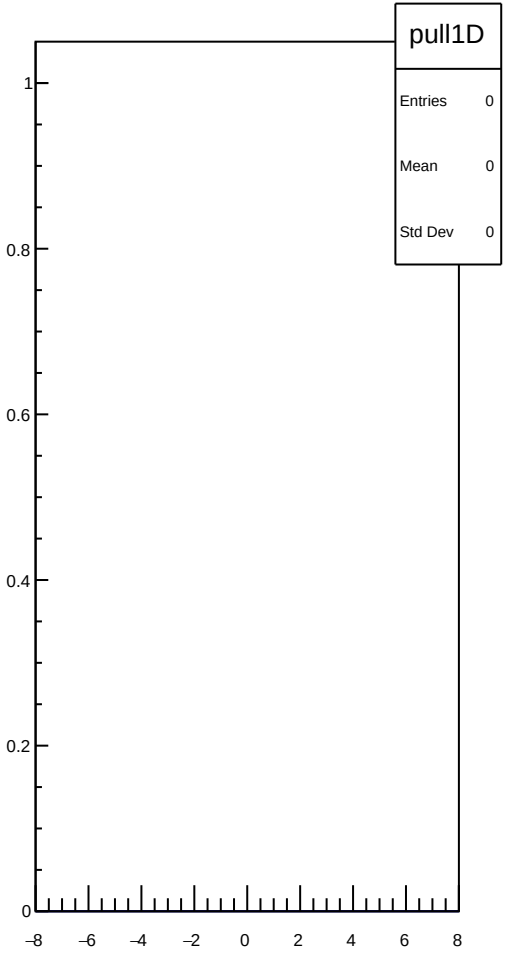

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

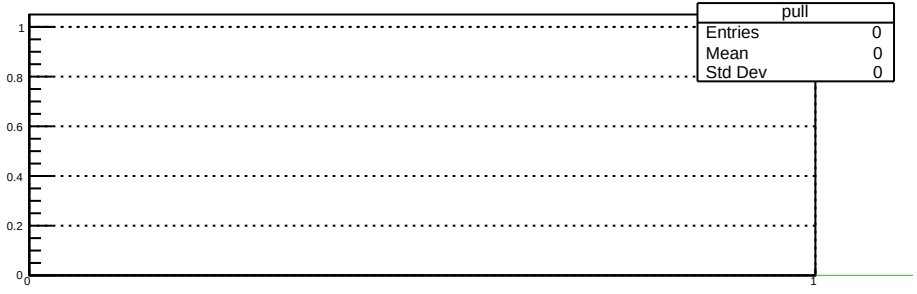

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 35.68 / 40
p0 162.4 ± 147.2
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −21.21
Std Dev 57.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

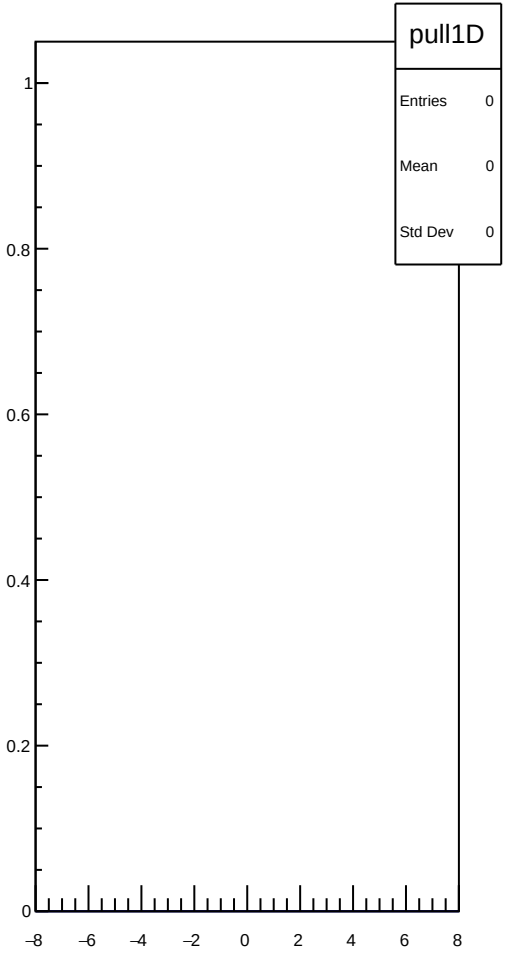

pull1D
Entries 41
Mean 0.01376
Std Dev 0.9327
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

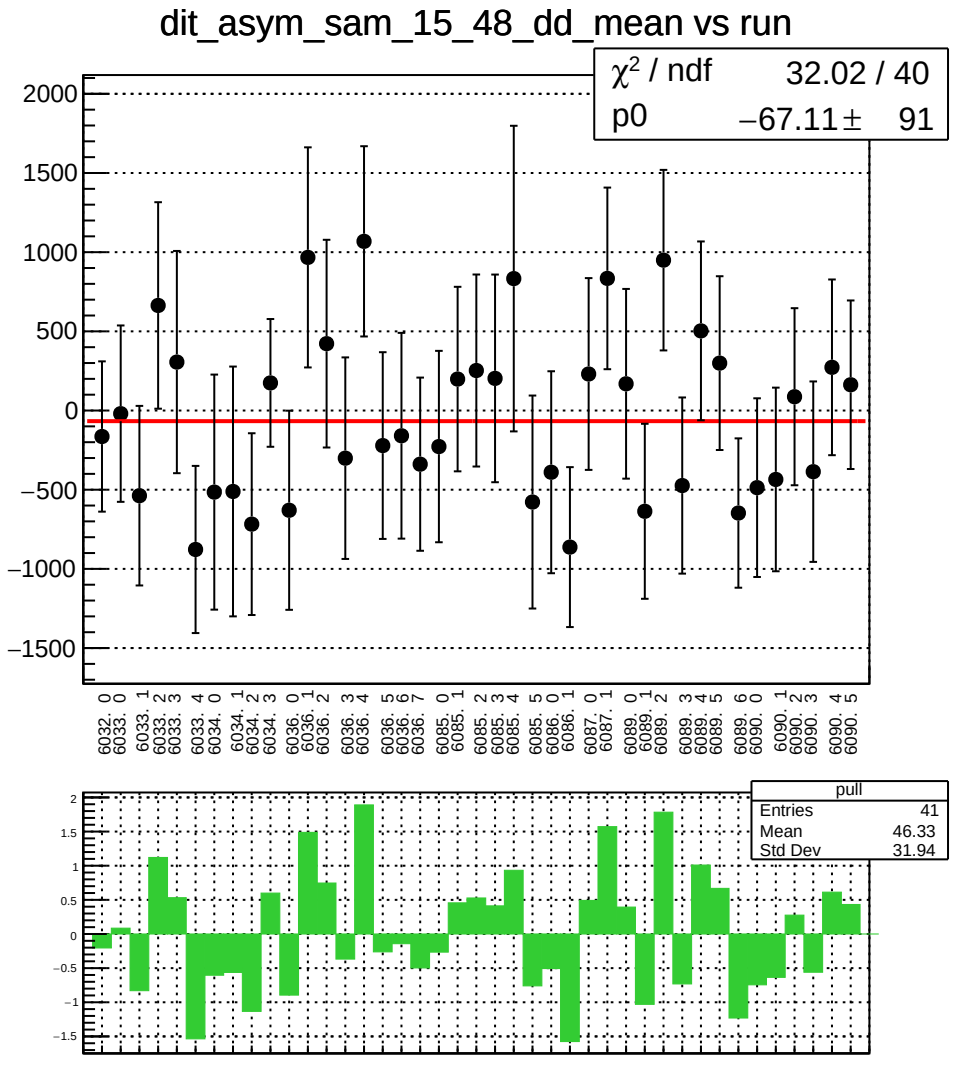

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 5736 / 40
p0 93.64 ± 0.1041
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

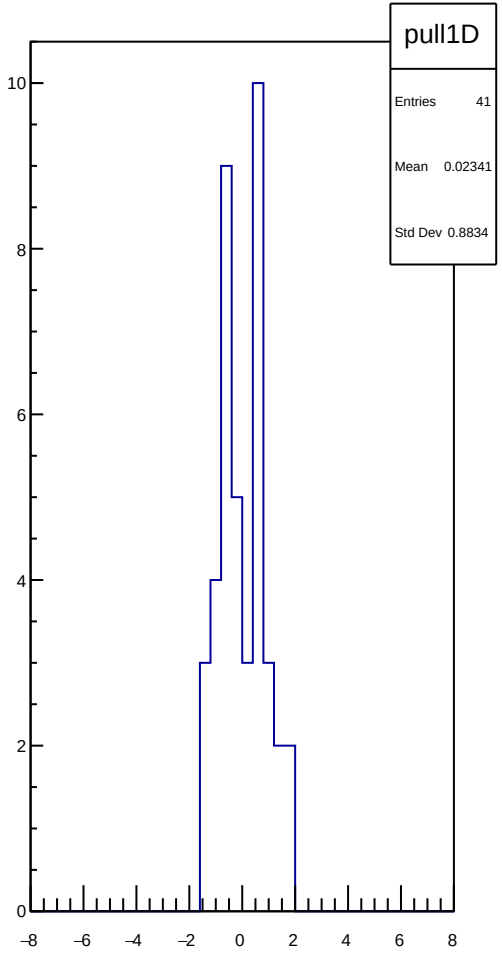

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

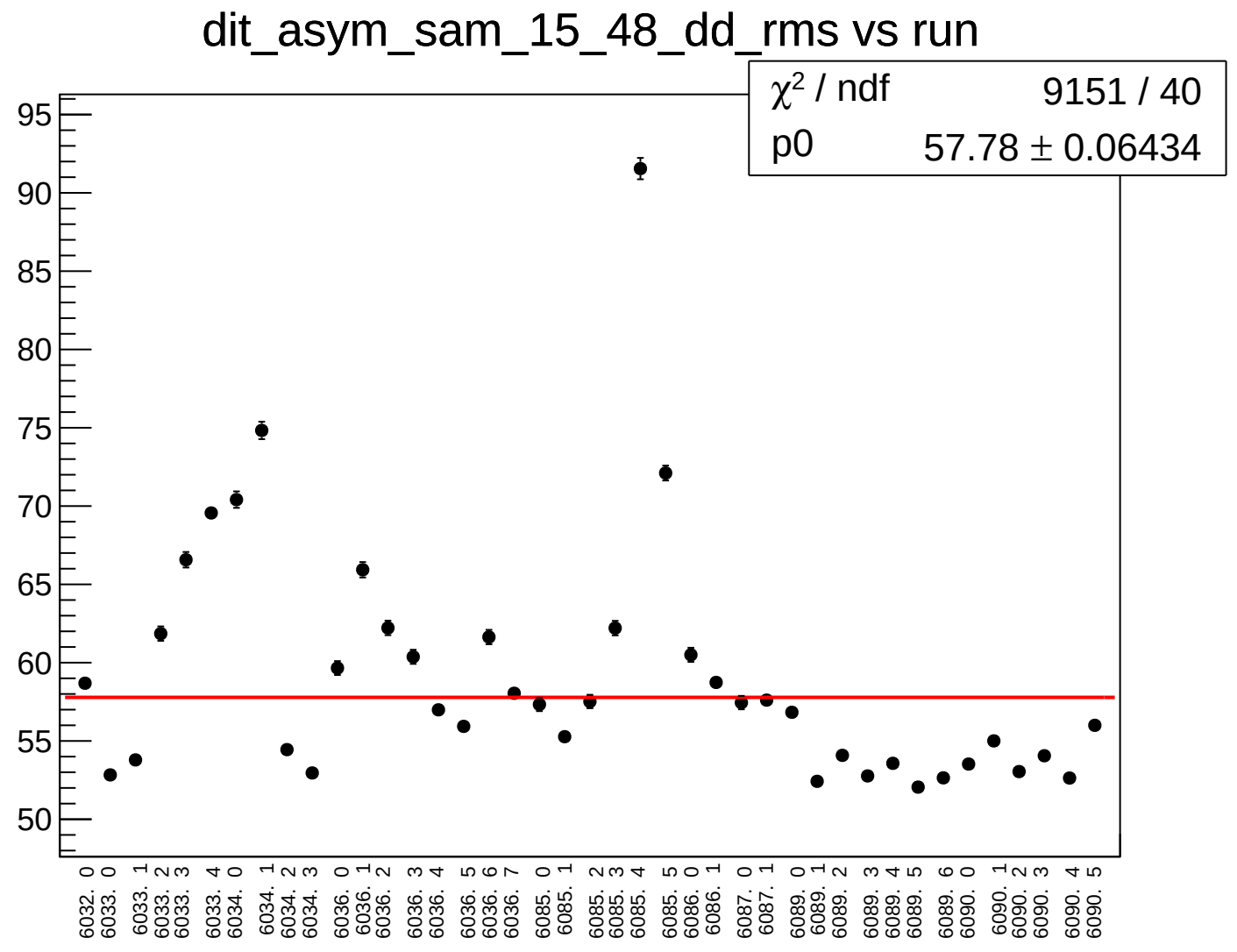

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

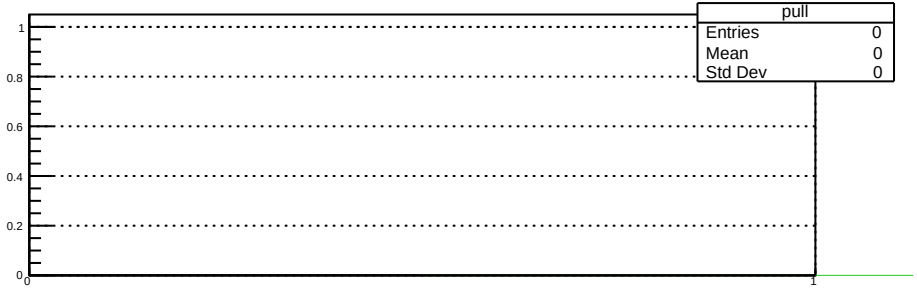

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

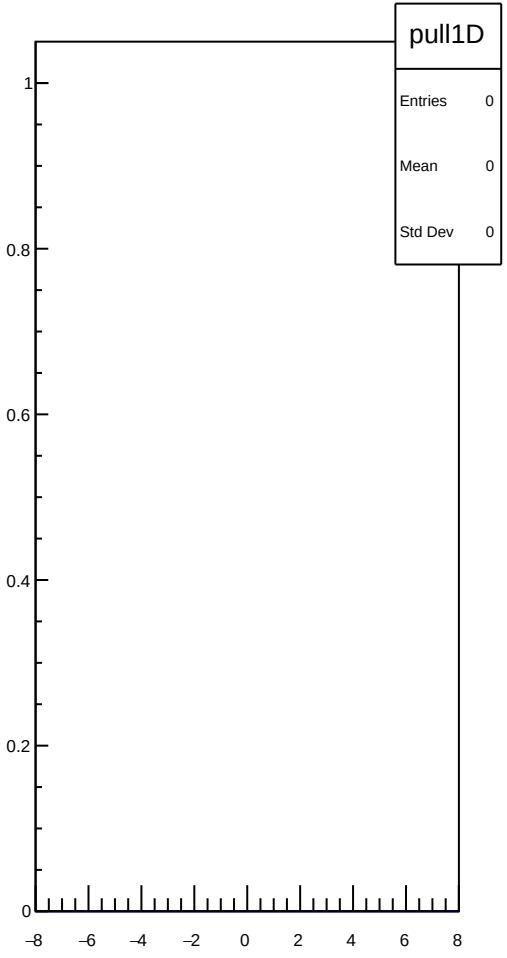

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

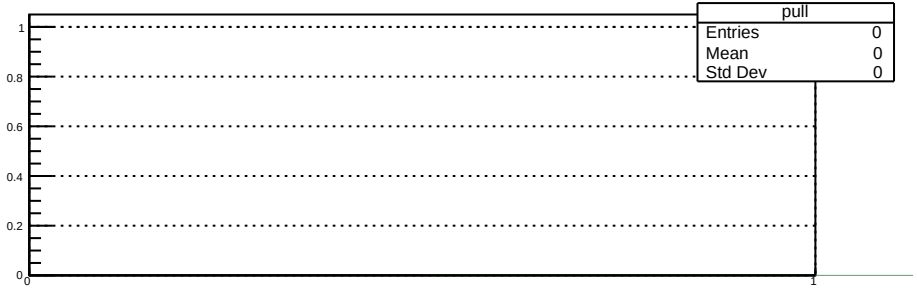

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 32.02 / 40
p0 −67.11 ± 91
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 46.33
Std Dev 31.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

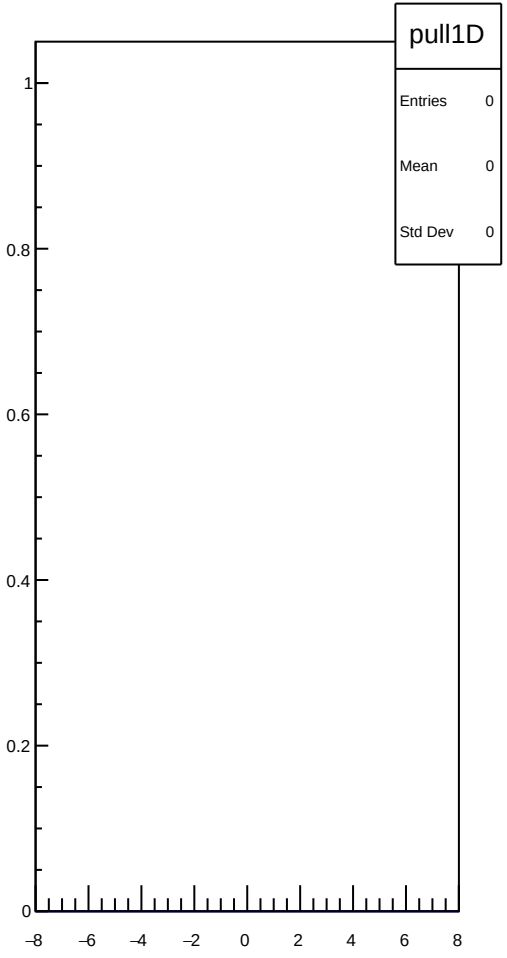

pull1D
Entries 41
Mean 0.02341
Std Dev 0.8834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

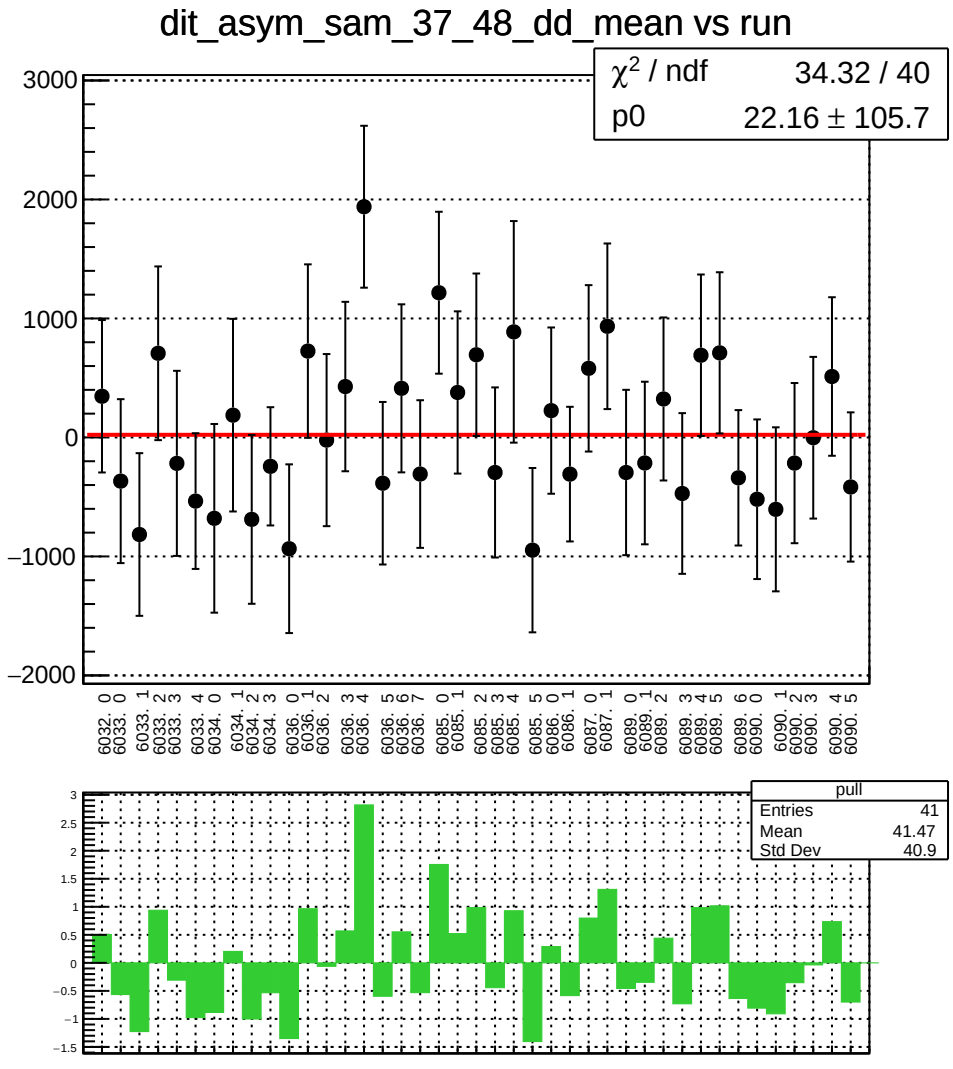

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 9151 / 40
p0 57.78 ± 0.06434
95
90
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

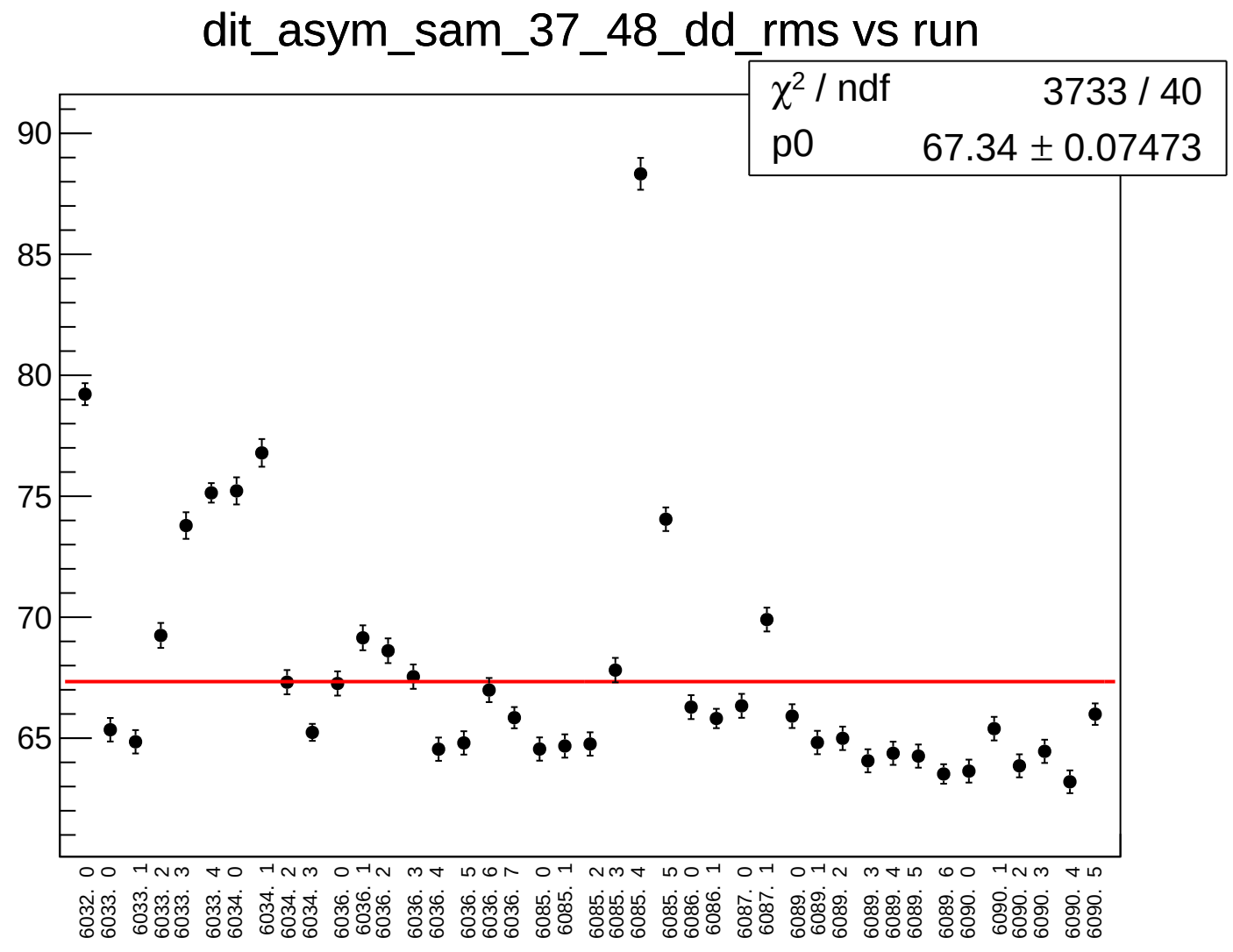

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

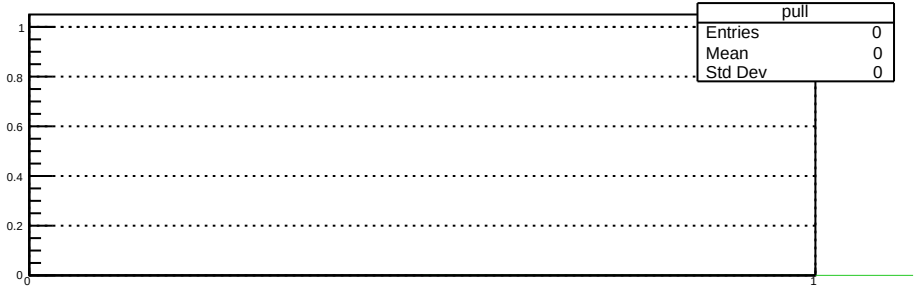

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

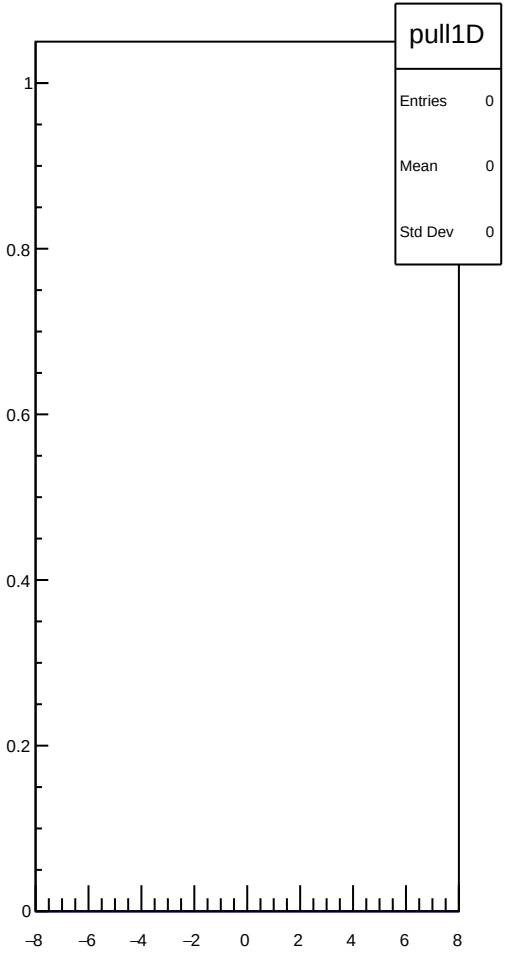

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

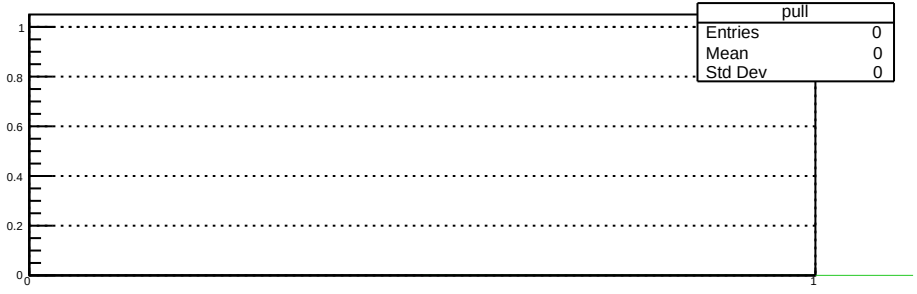

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

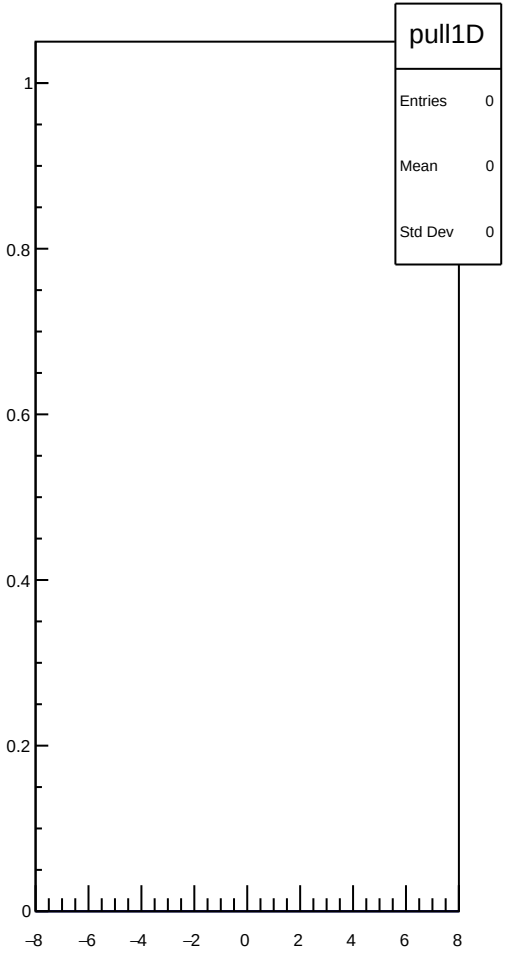

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 34.32 / 40
p0 22.16 ± 105.7
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 41.47
Std Dev 40.9
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02156
Std Dev 0.9146
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

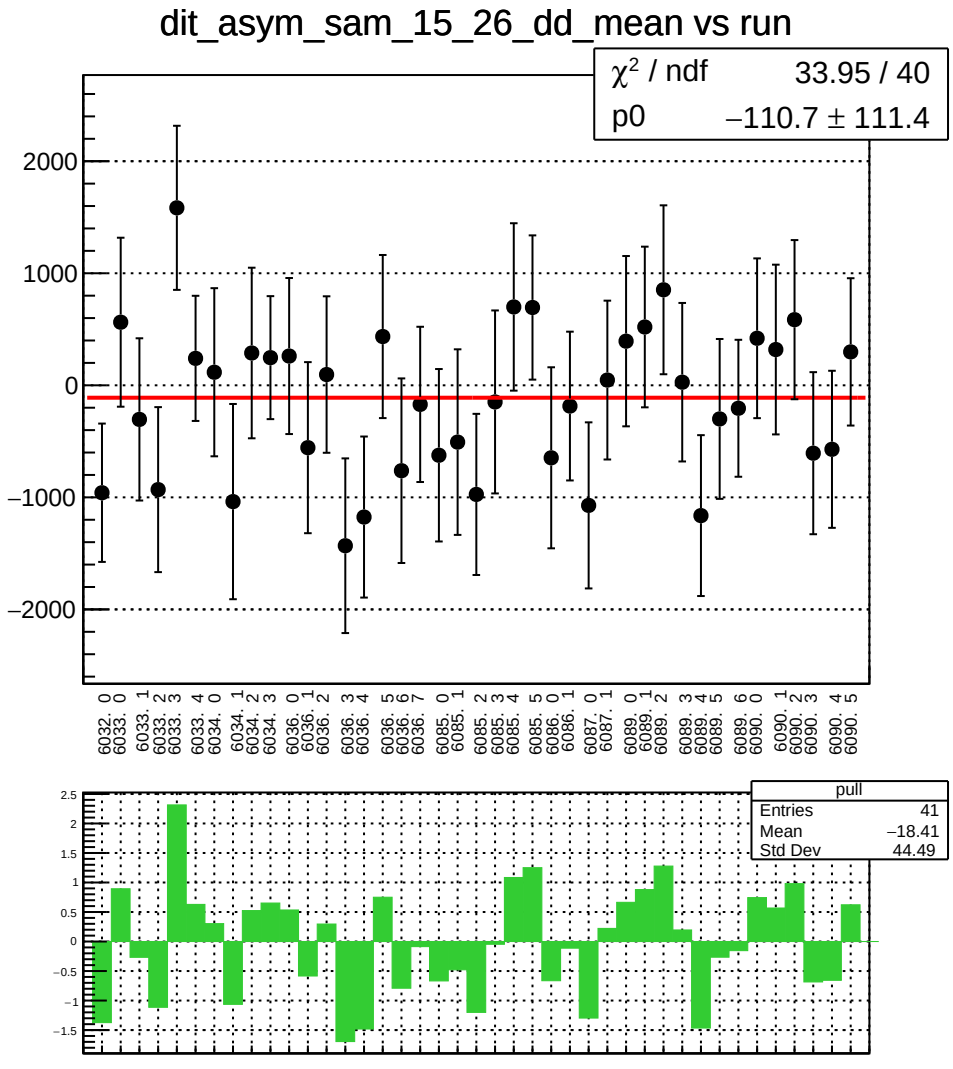

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3733 / 40
p0 67.34 ± 0.07473
90
85
80
75
70
65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

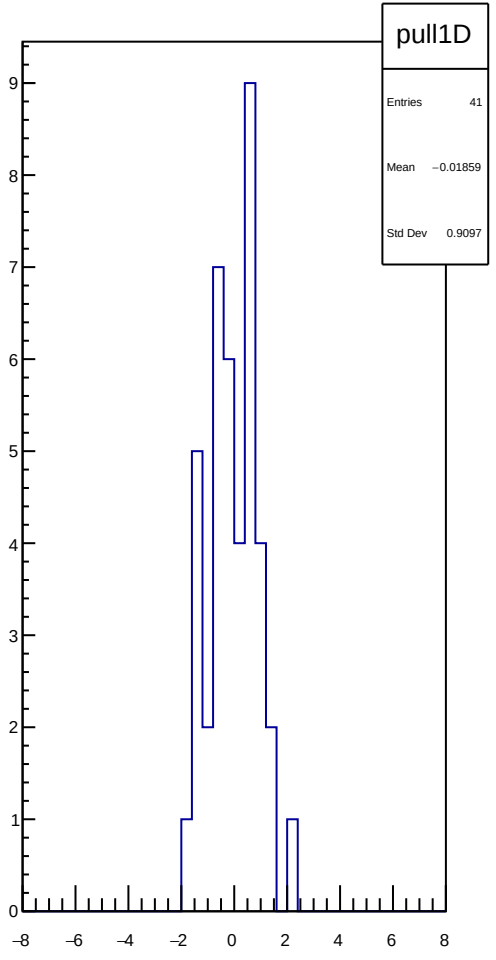

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

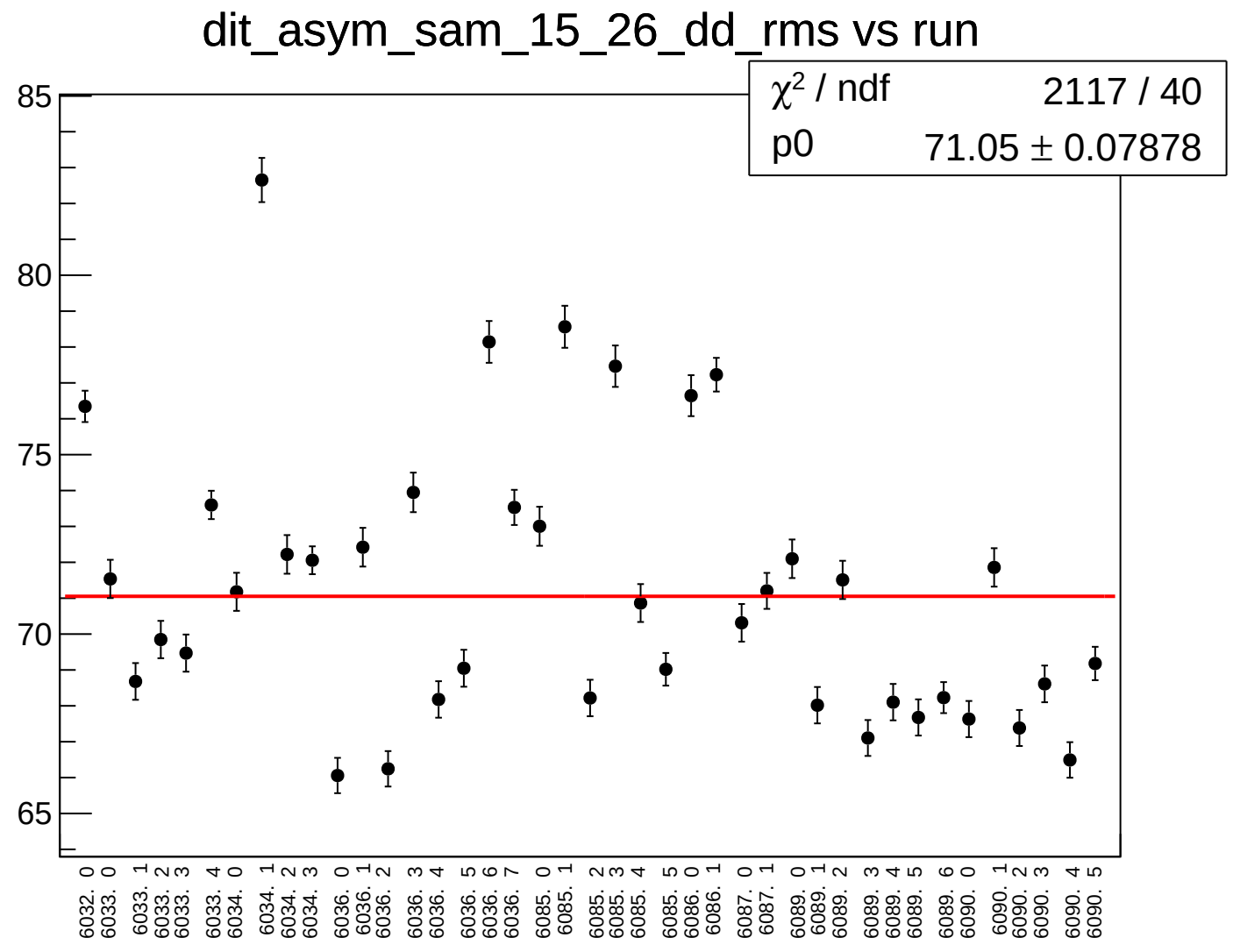

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

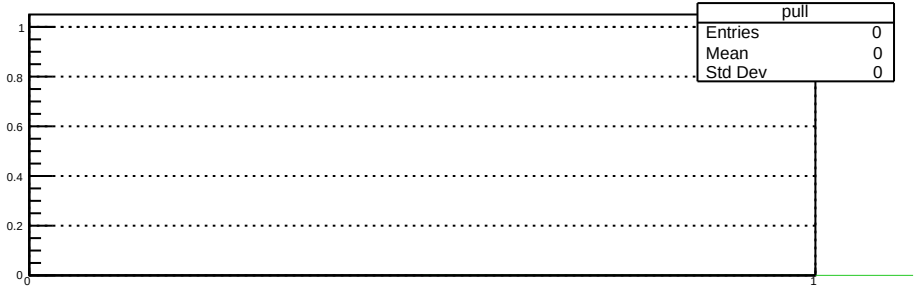

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

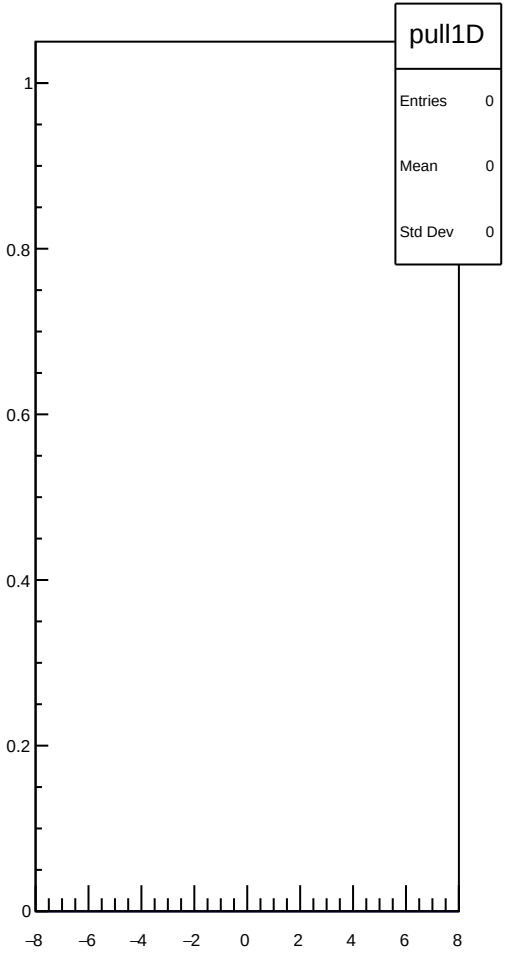

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

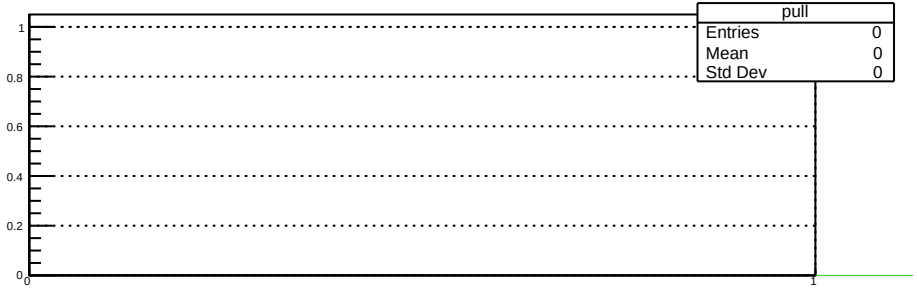

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 33.95 / 40
p0 −110.7 ± 111.4
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −18.41
Std Dev 44.49
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

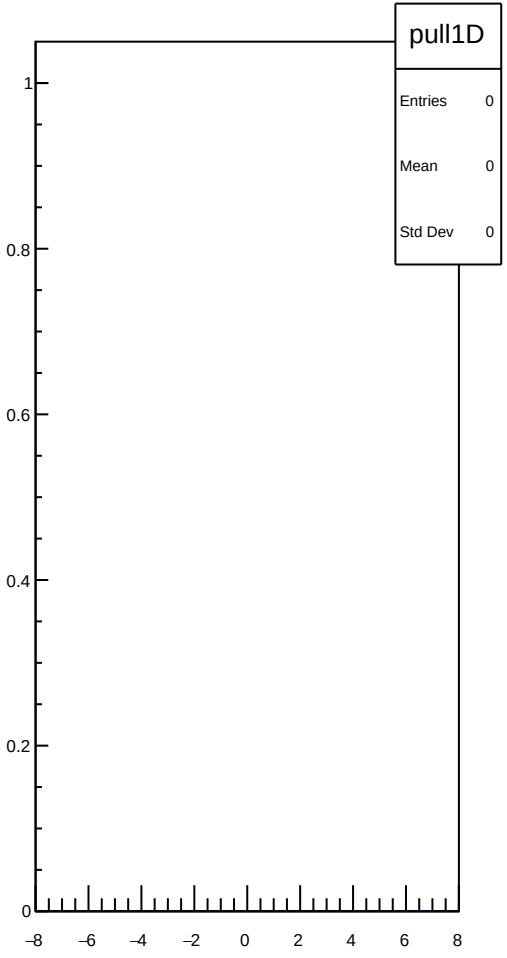

pull1D
Entries 41
Mean −0.01859
Std Dev 0.9097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

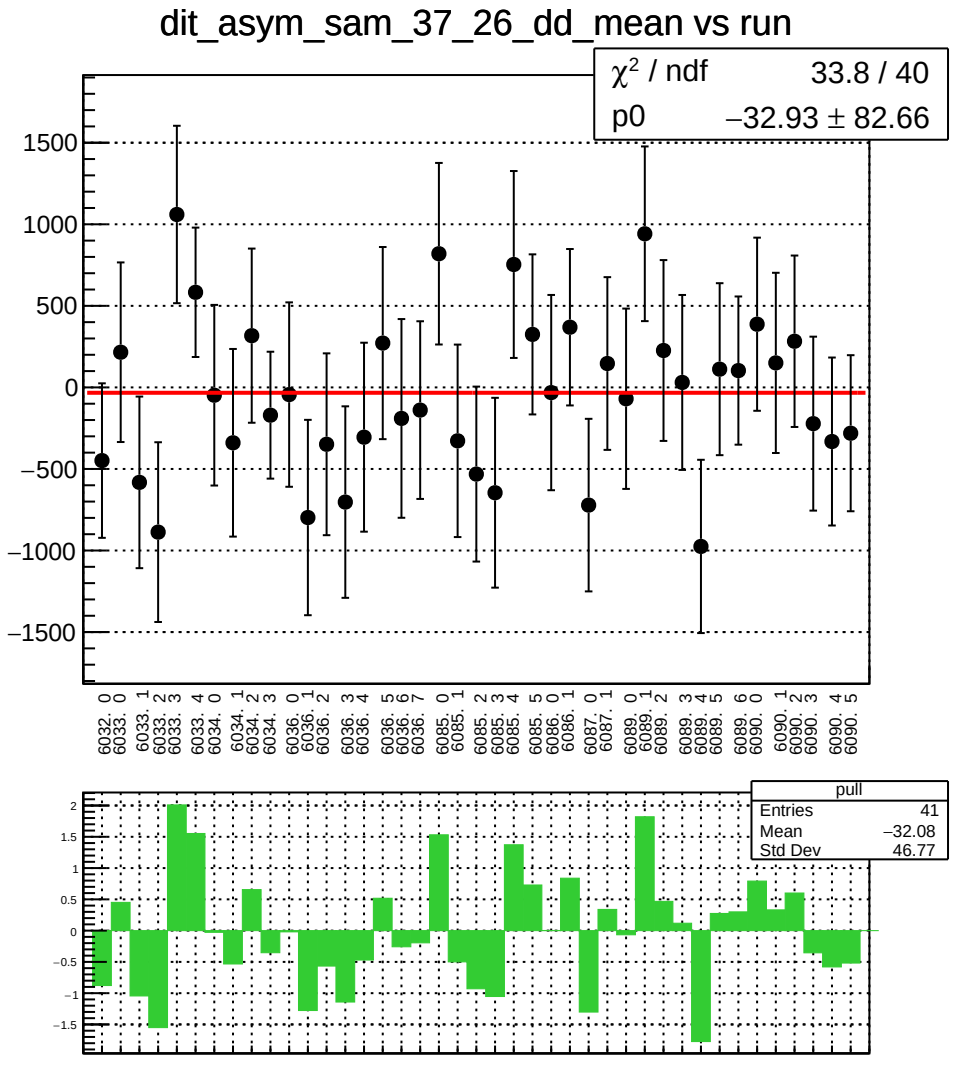

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2117 / 40
p0 71.05 ± 0.07878
85
80
75
70
65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

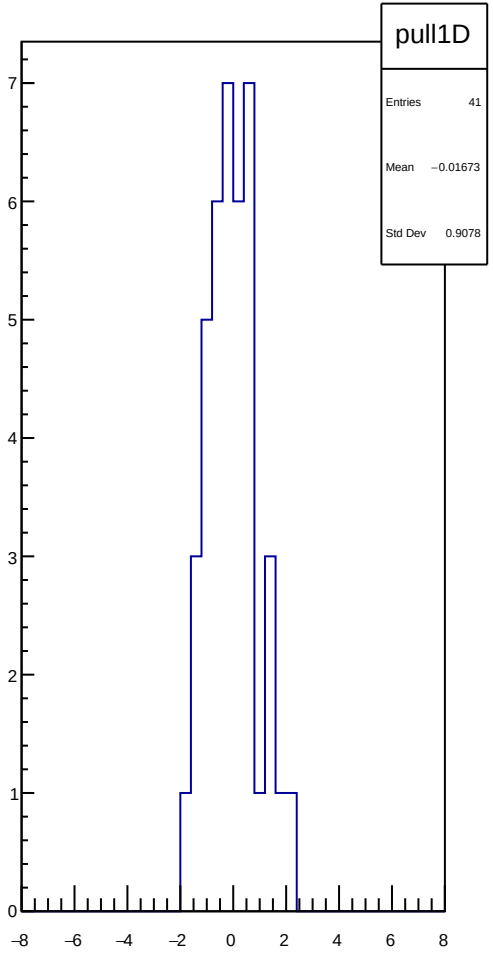

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

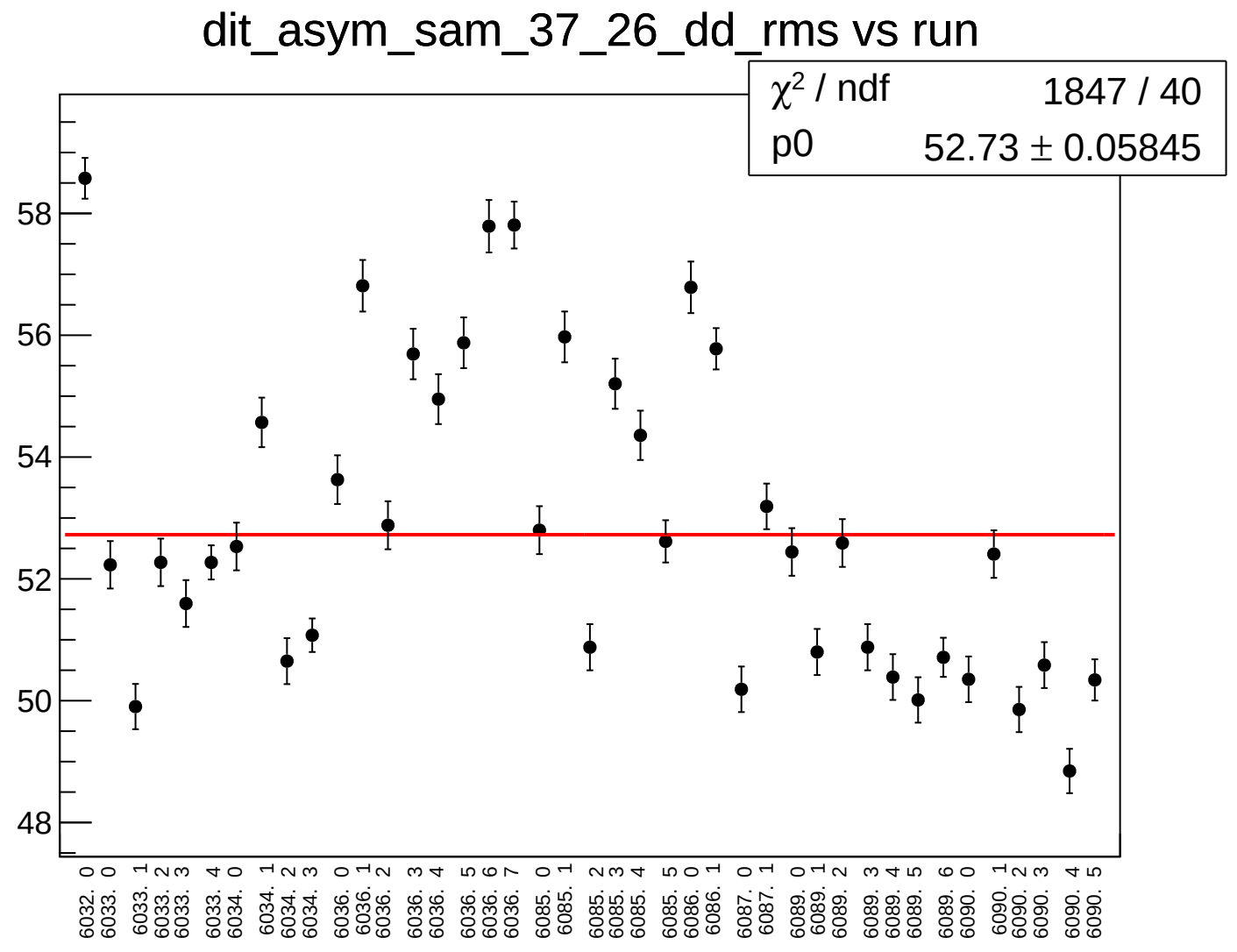

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

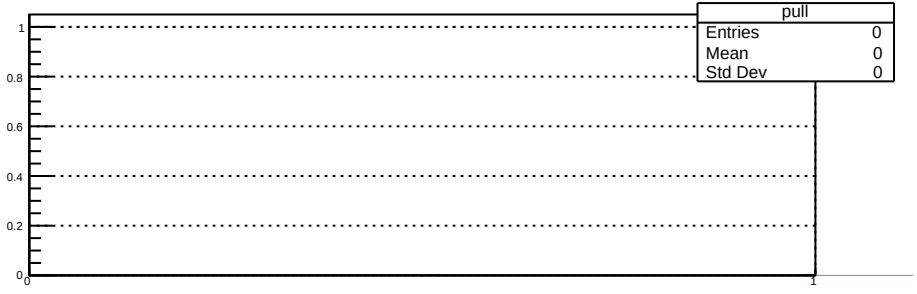

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

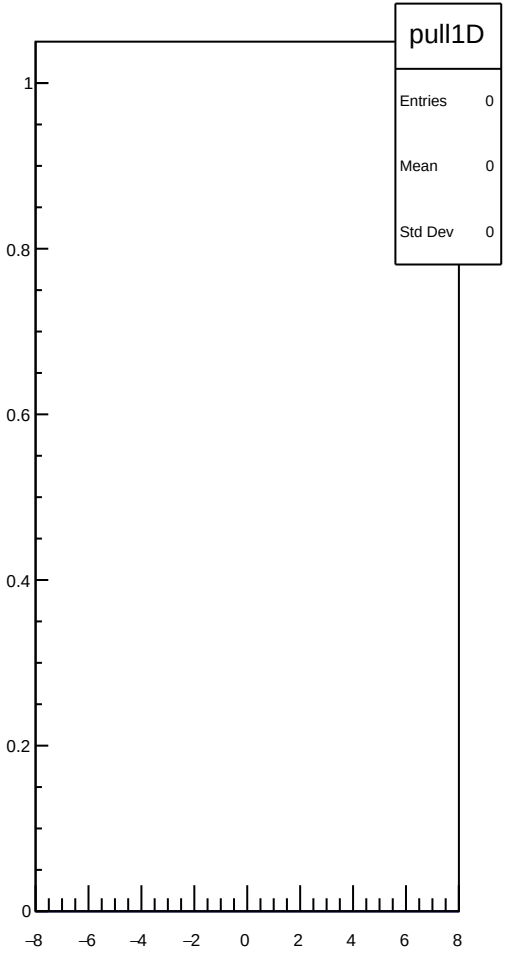

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

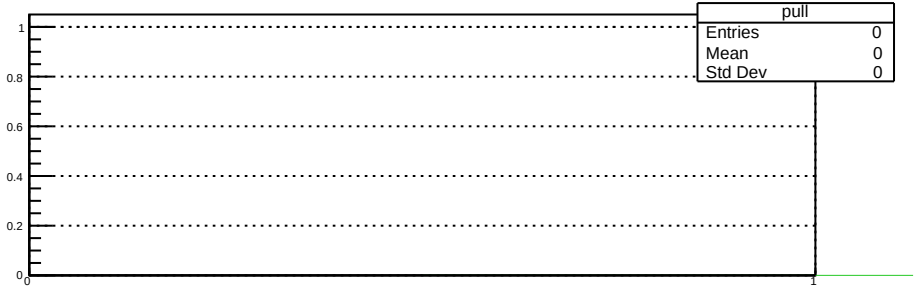

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 33.8 / 40
p0 −32.93 ± 82.66
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −32.08
Std Dev 46.77
2
1.5
1
0.5
0
−0.5
−1
−1.5

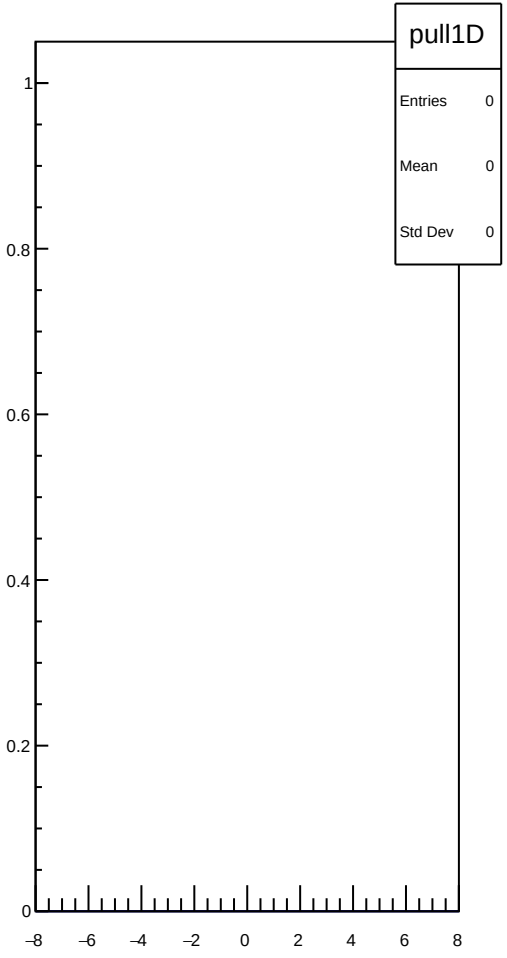

pull1D
Entries 41
Mean −0.01673
Std Dev 0.9078
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

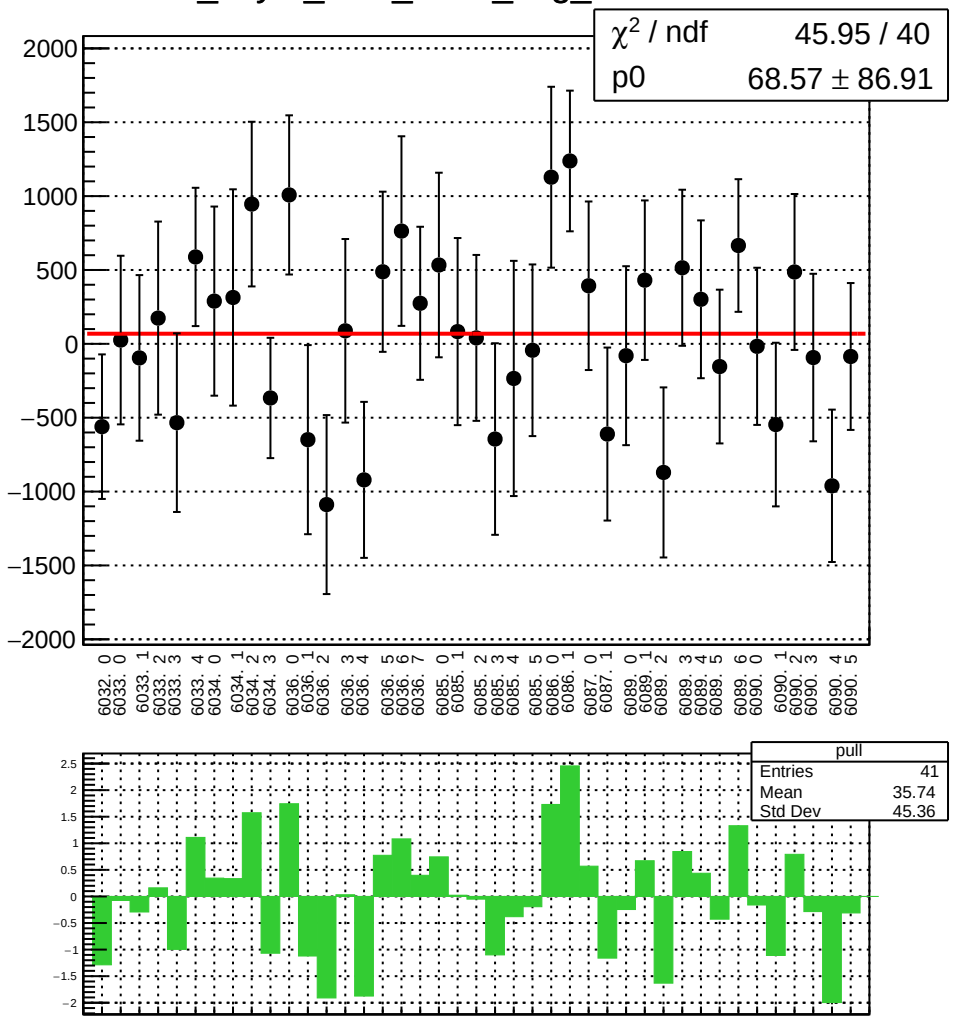

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1847 / 40
p0 52.73 ± 0.05845
58
56
54
52
50
48
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

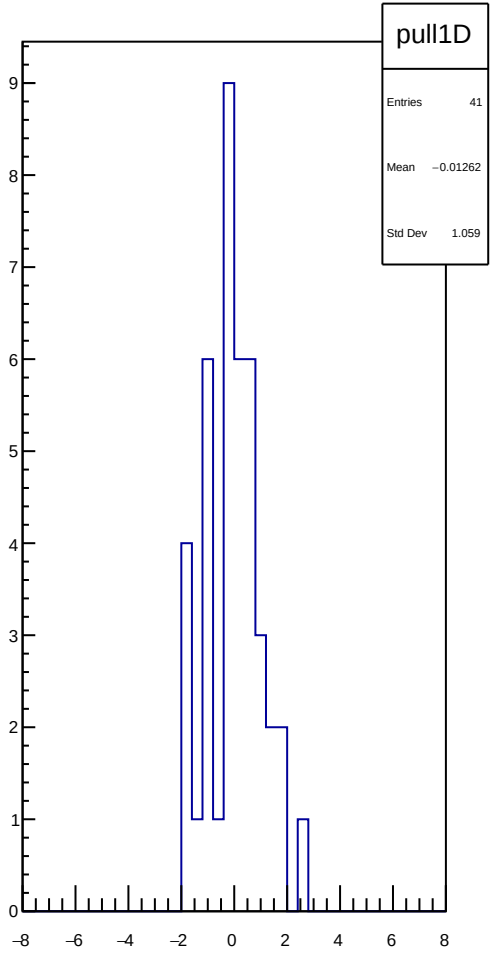

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

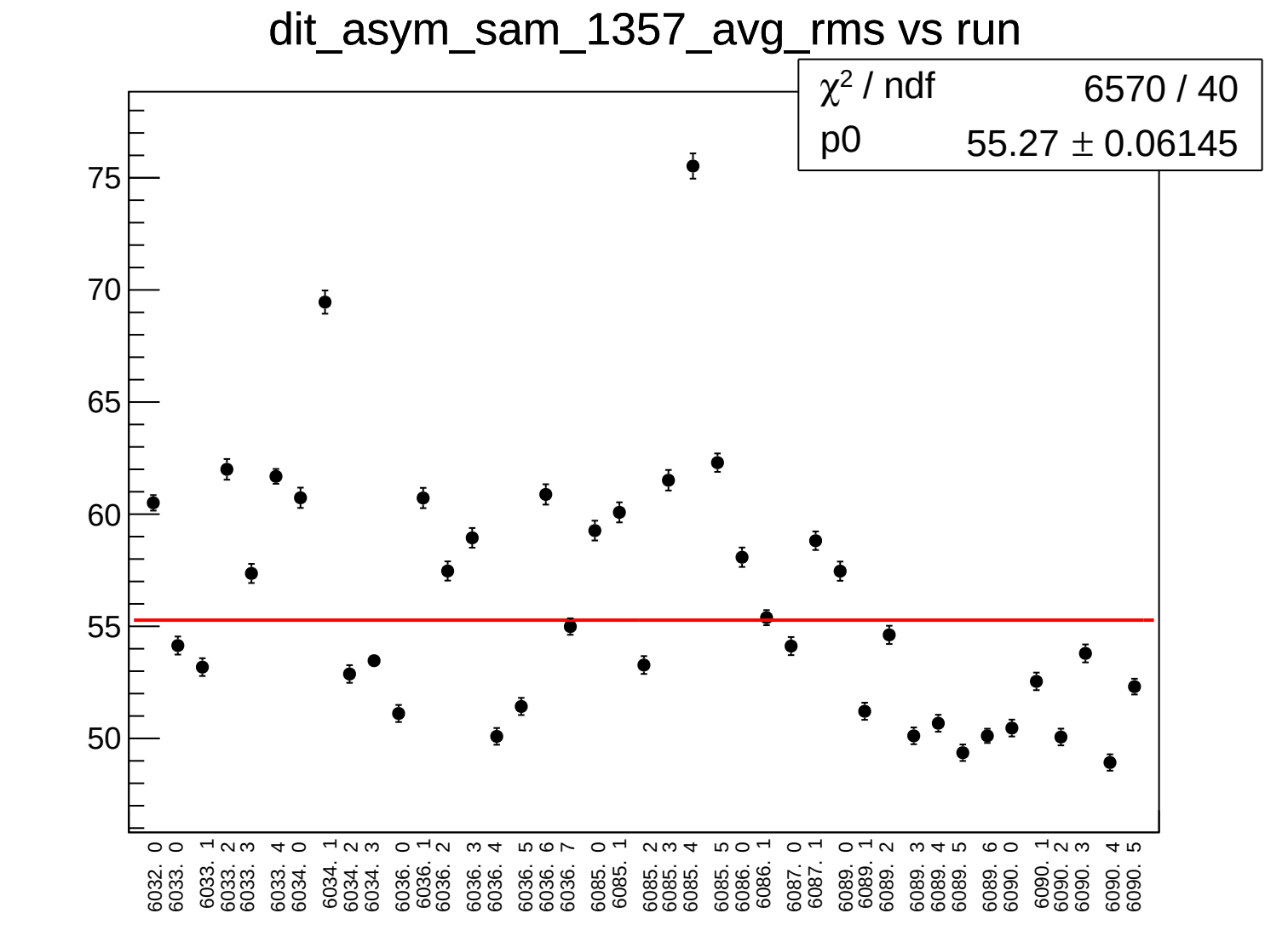

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

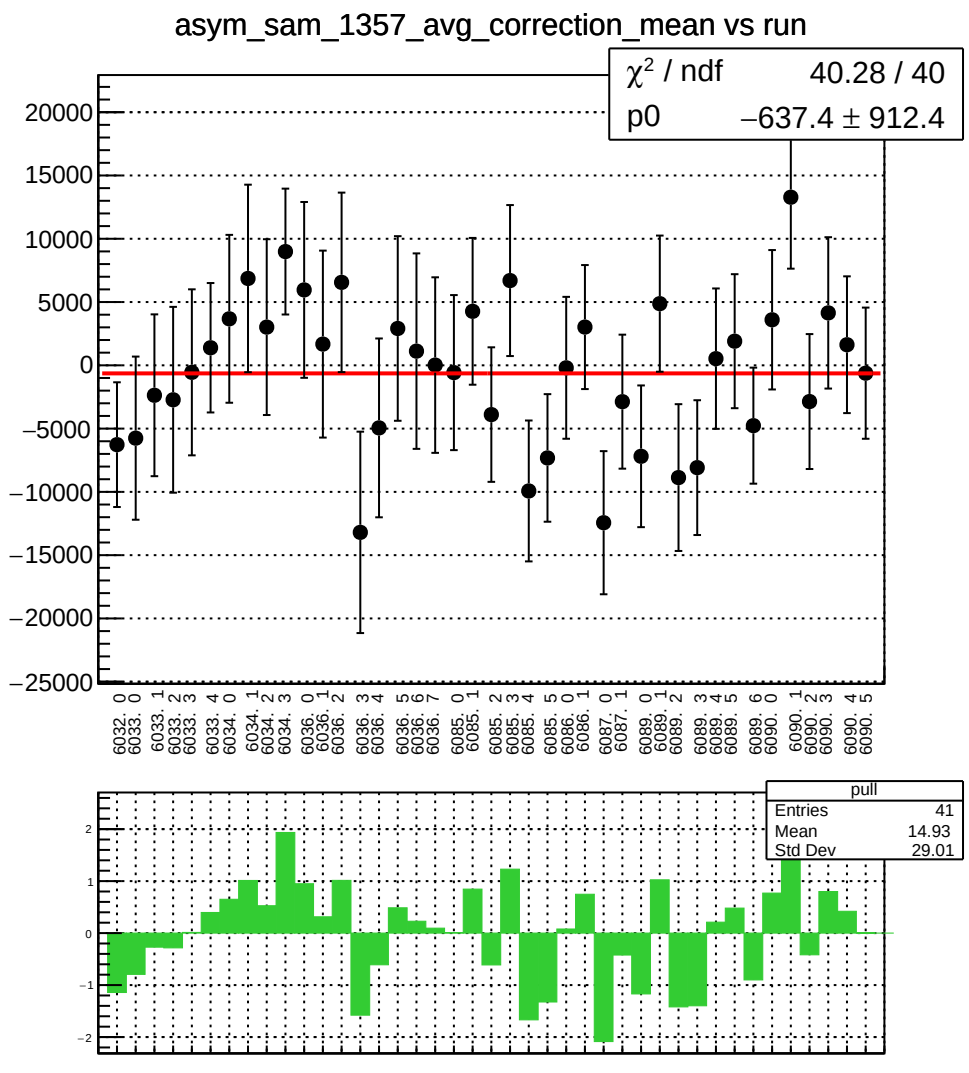

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

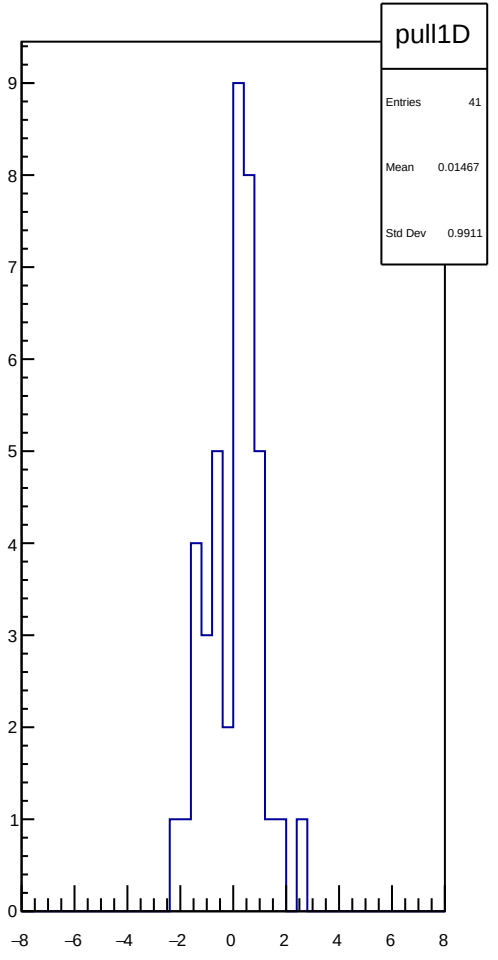

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

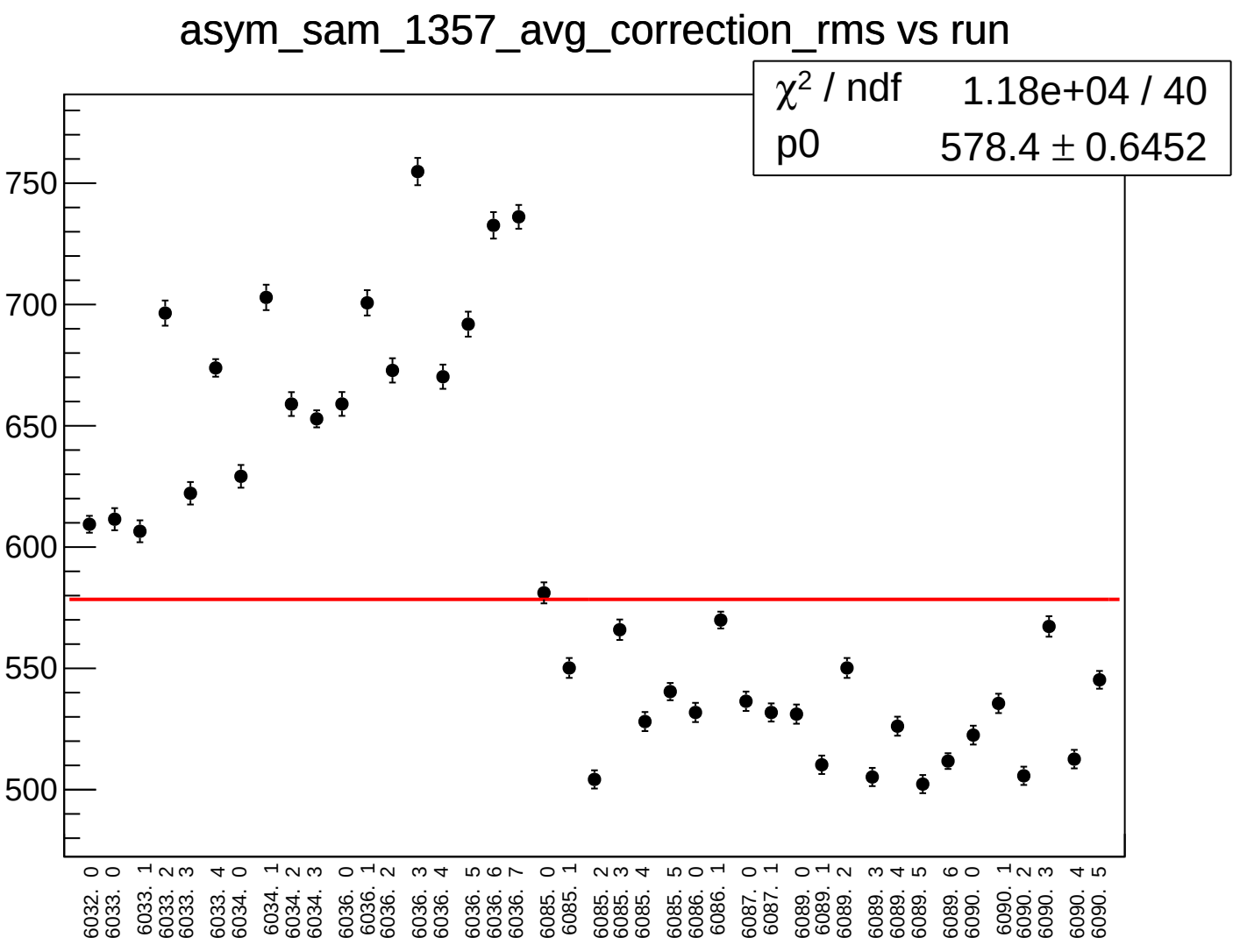

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 45.95 / 40
p0 68.57 ± 86.91
pull
Entries 41
Mean 35.74
Std Dev 45.36

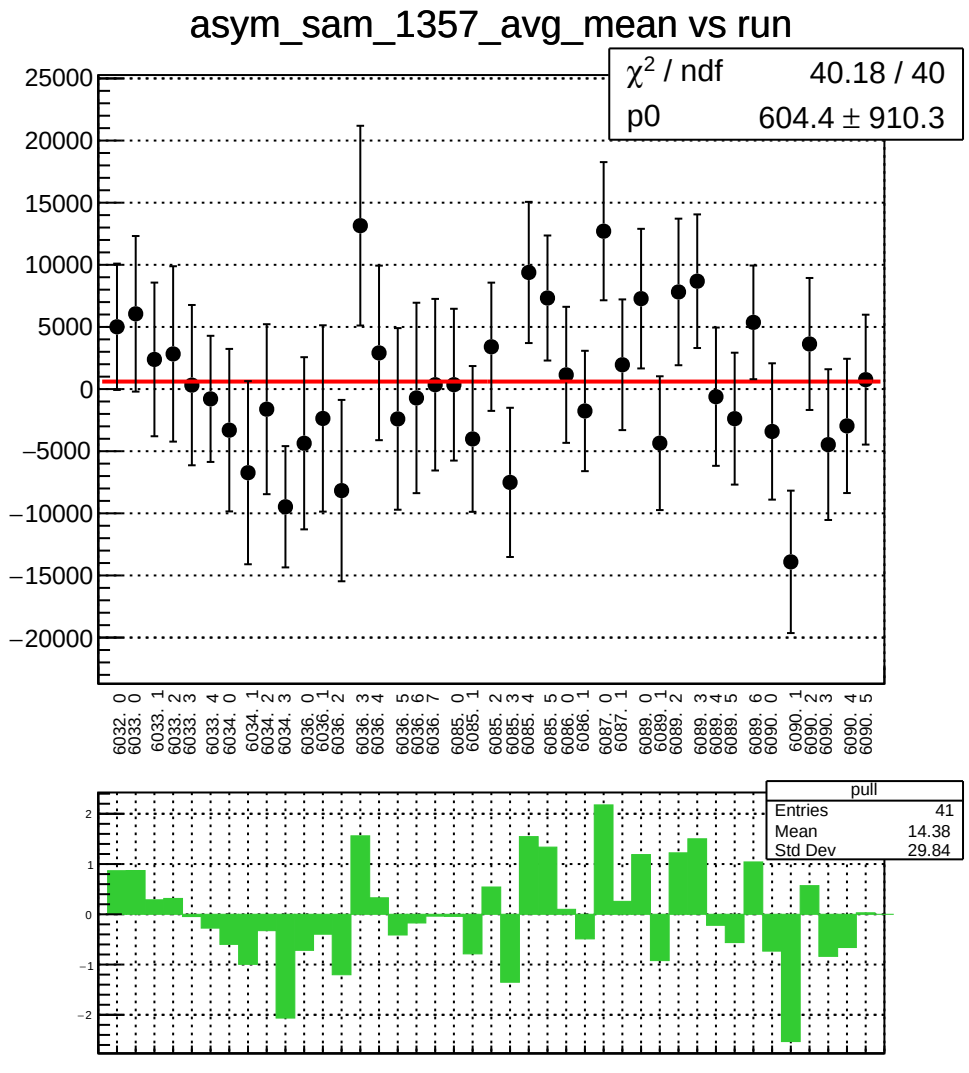

pull1D
Entries 41
Mean −0.01262
Std Dev 1.059

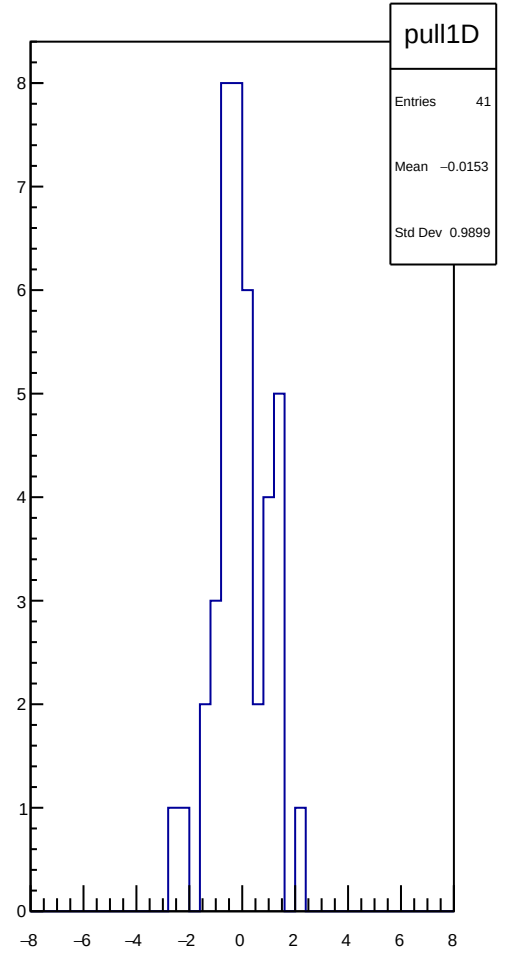

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 6570 / 40
p0 55.27 ± 0.06145
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

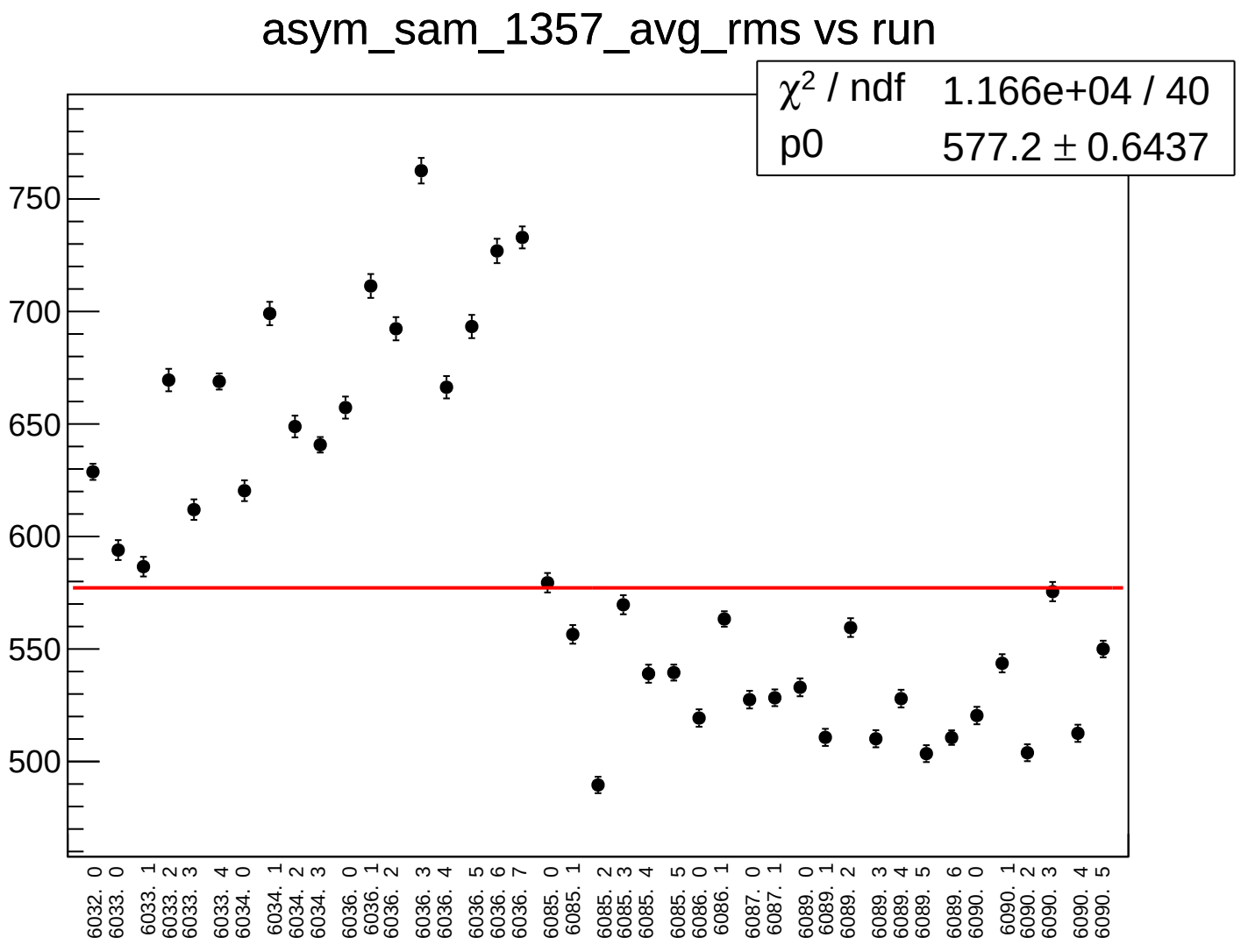

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 40.28 / 40
p0 −637.4 ± 912.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 14.93
Std Dev 29.01
2
1
0
−1
−2

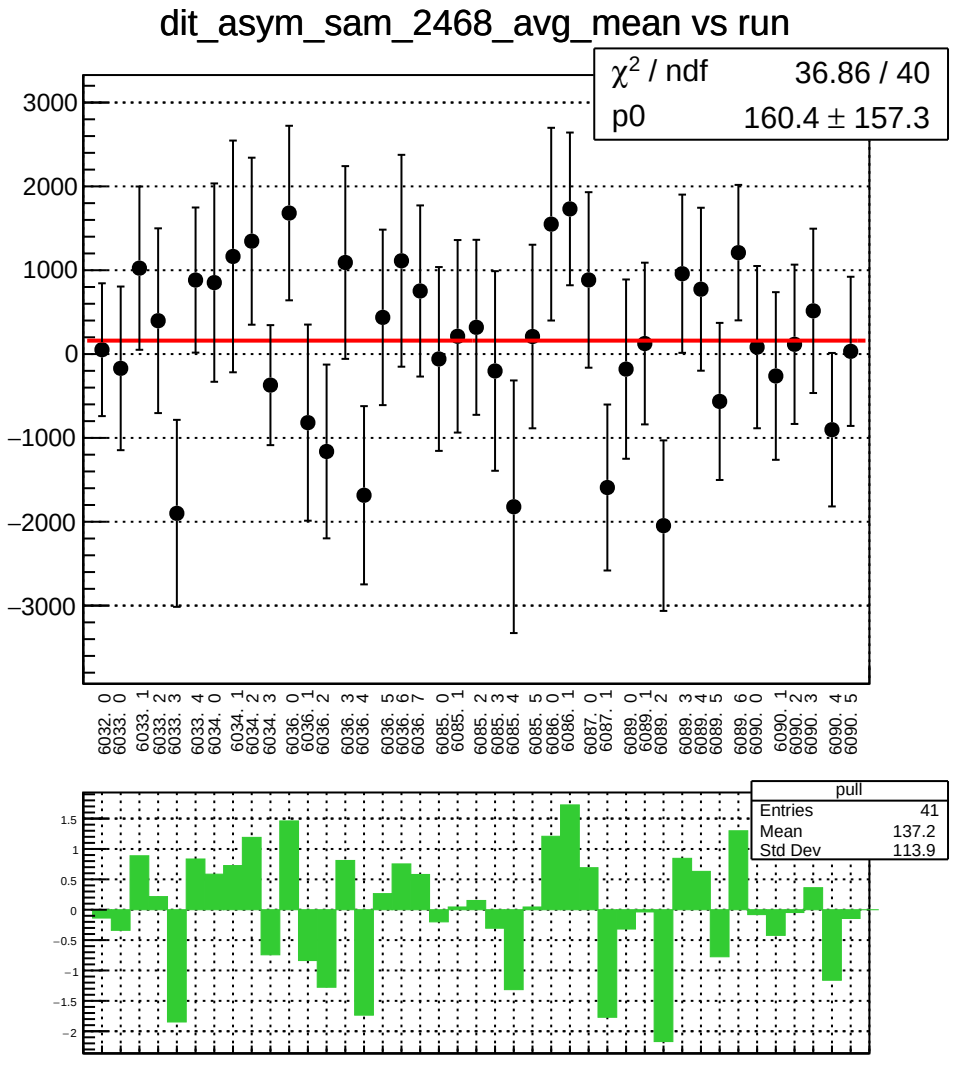

pull1D
Entries 41
Mean 0.01467
Std Dev 0.9911
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

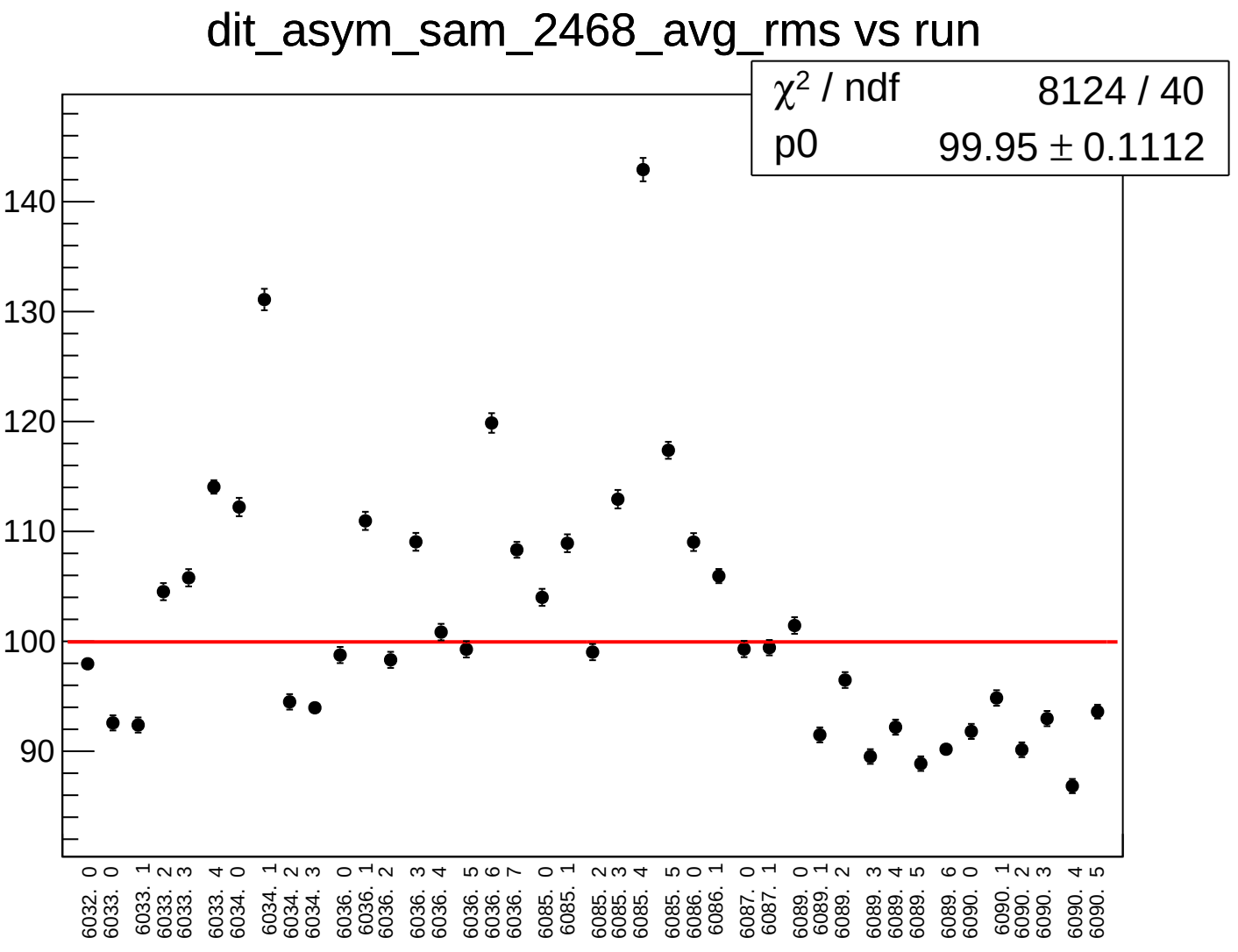

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.18e+04 / 40
p0 578.4 ± 0.6452
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

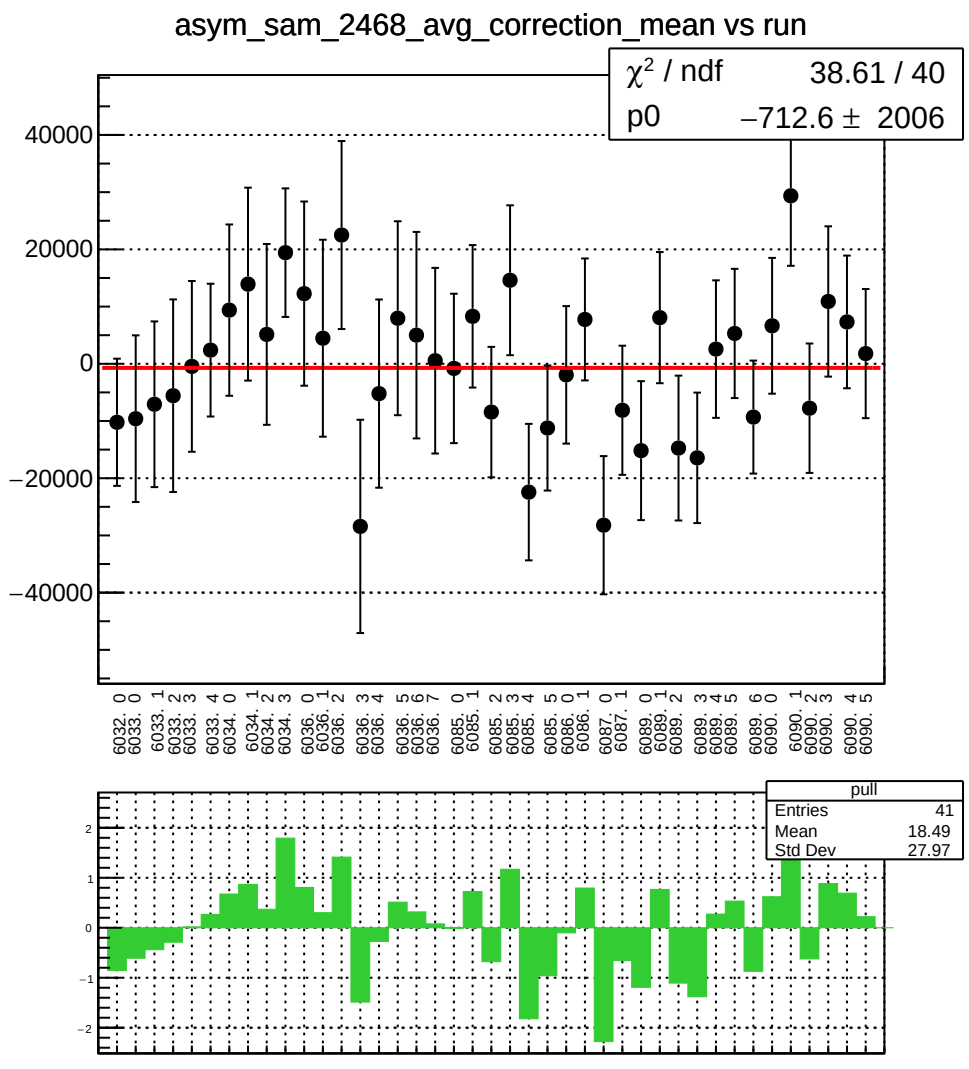

asym_sam_1357_avg_mean vs run
χ² / ndf 40.18 / 40
p0 604.4 ± 910.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 14.38
Std Dev 29.84
2
1
0
−1
−2

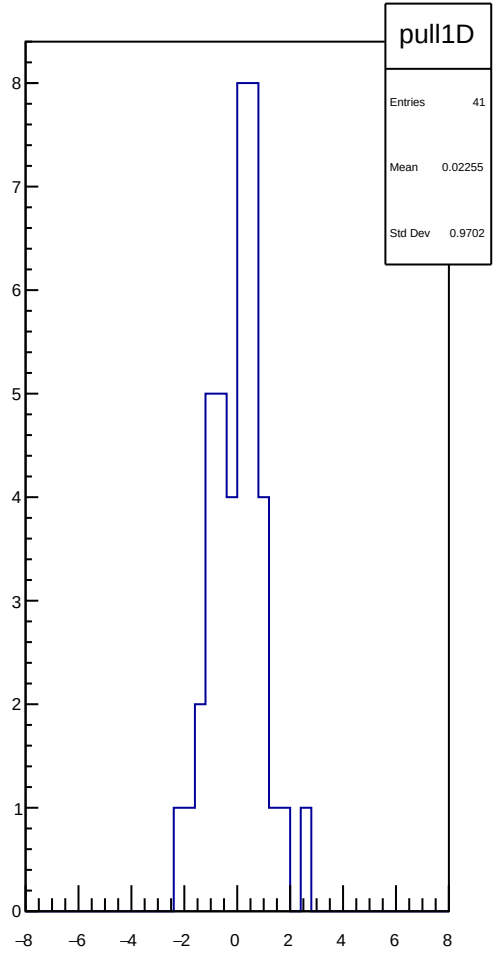

pull1D
Entries 41
Mean −0.0153
Std Dev 0.9899
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

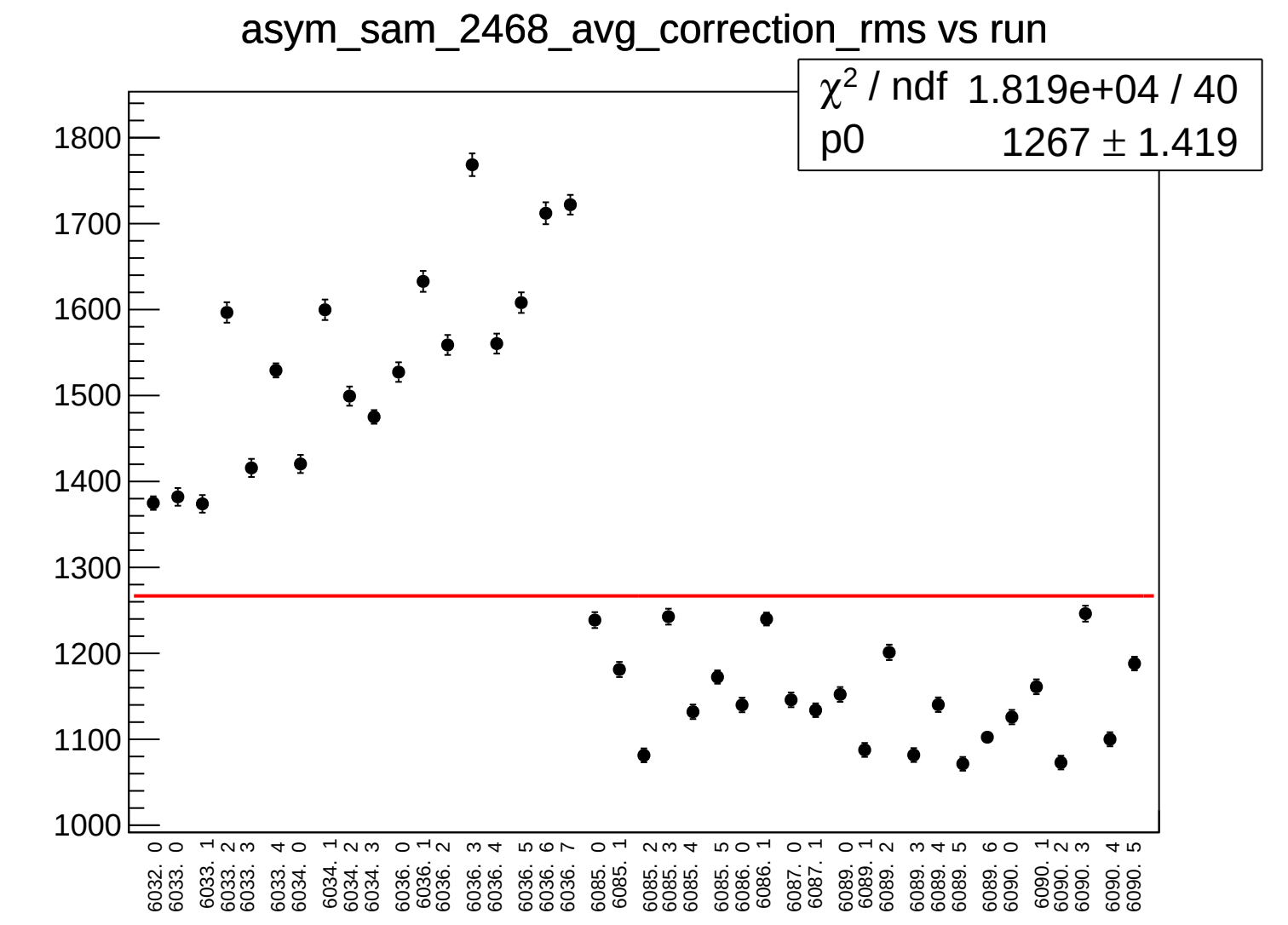

asym_sam_1357_avg_rms vs run
χ² / ndf 1.166e+04 / 40
p0 577.2 ± 0.6437
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

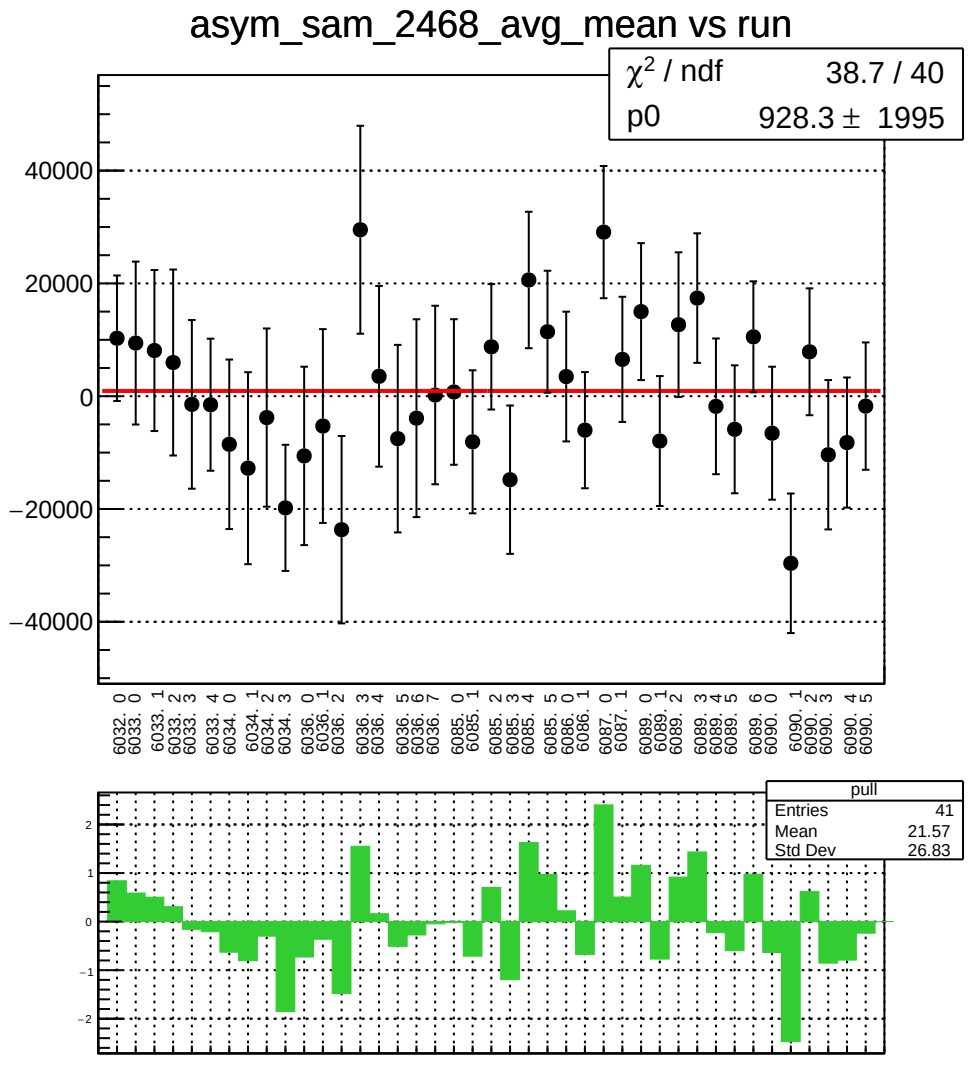

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 36.86 / 40
p0 160.4 ± 157.3
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 137.2
Std Dev 113.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.008226
Std Dev 0.9481
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

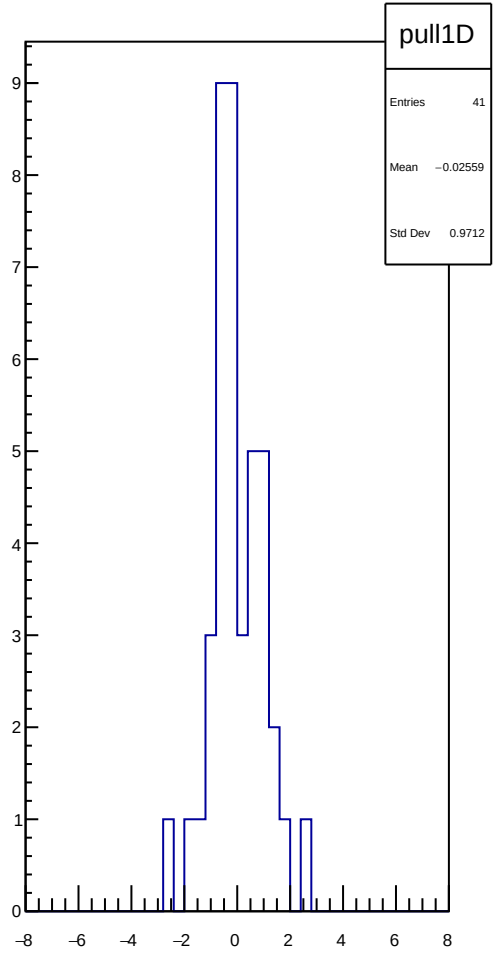

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 8124 / 40
p0 99.95 ± 0.1112
140
130
120
110
100
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

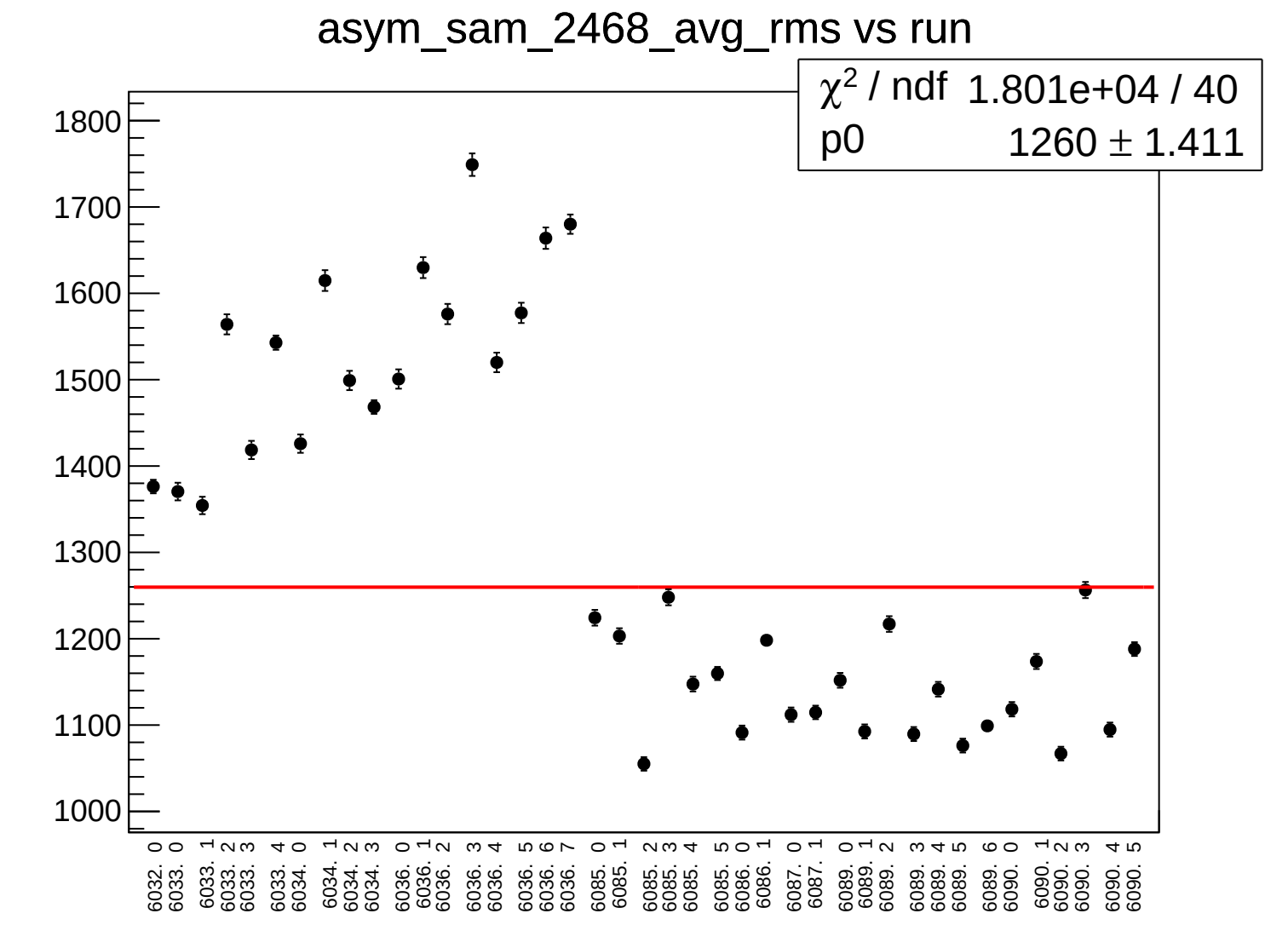

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 38.61 / 40
p0 −712.6 ± 2006
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 18.49
Std Dev 27.97
2
1
0
−1
−2

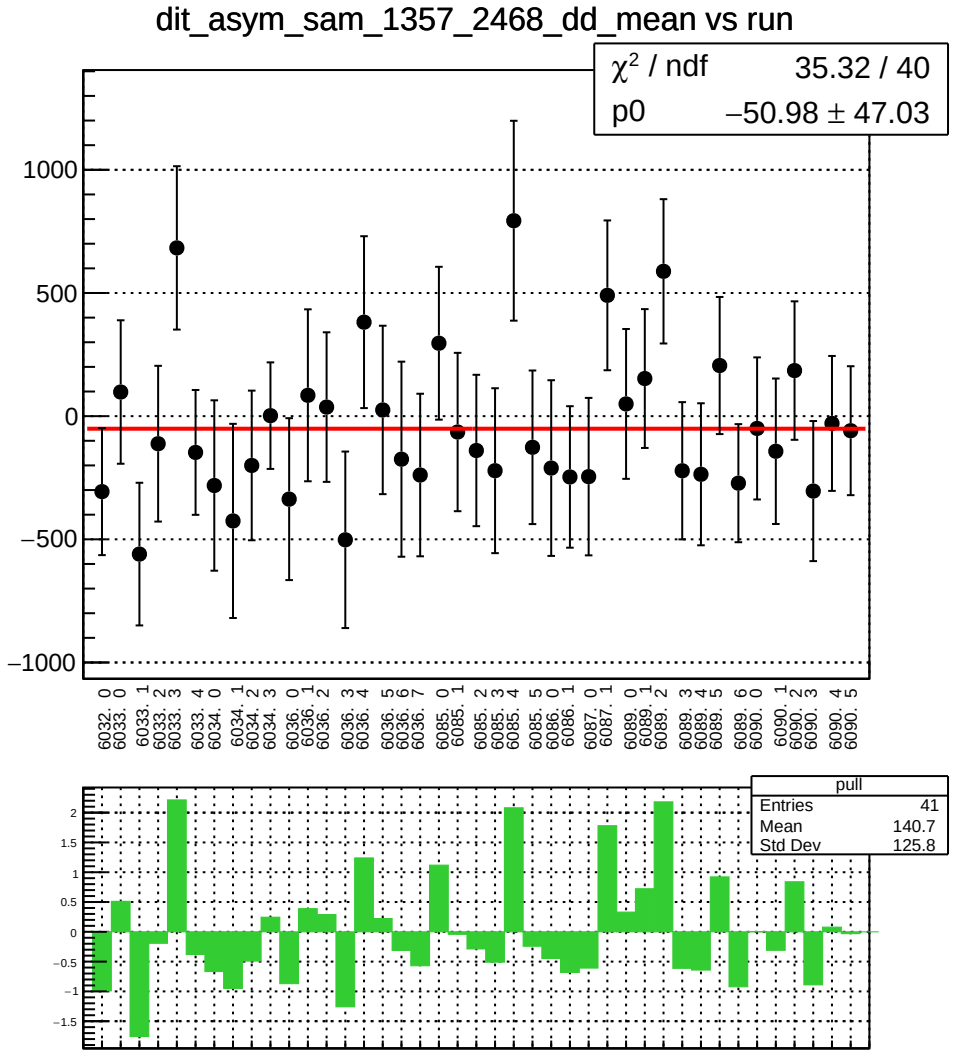

pull1D
Entries 41
Mean 0.02255
Std Dev 0.9702
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

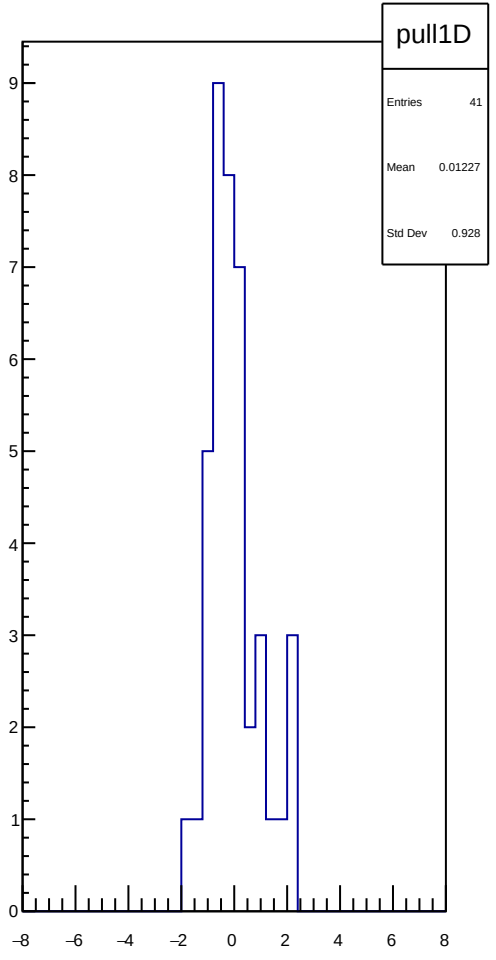

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.819e+04 / 40
p0 1267 ± 1.419
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

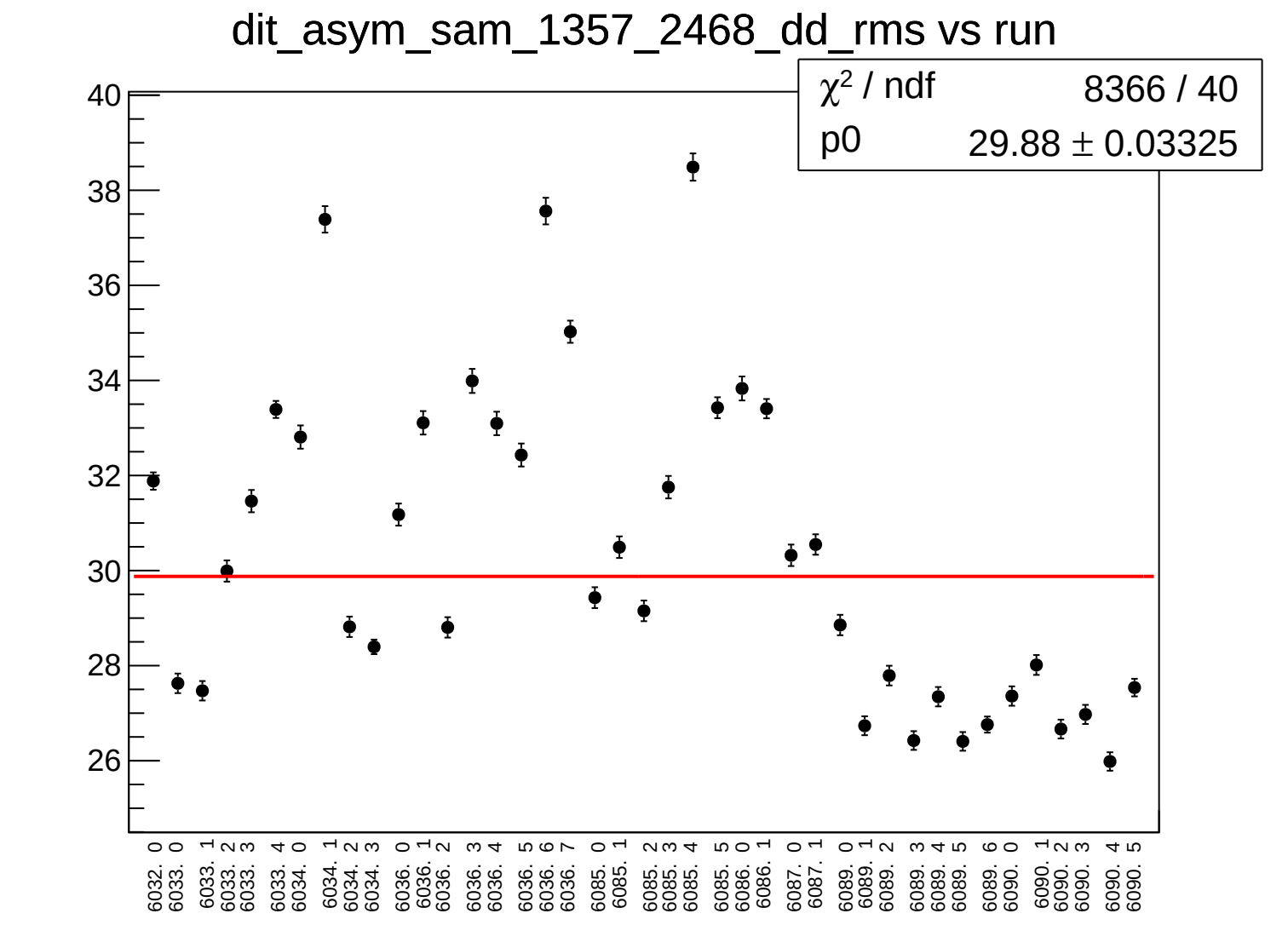

asym_sam_2468_avg_mean vs run
χ² / ndf 38.7 / 40
p0 928.3 ± 1995
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 21.57
Std Dev 26.83
2
1
0
−1
−2

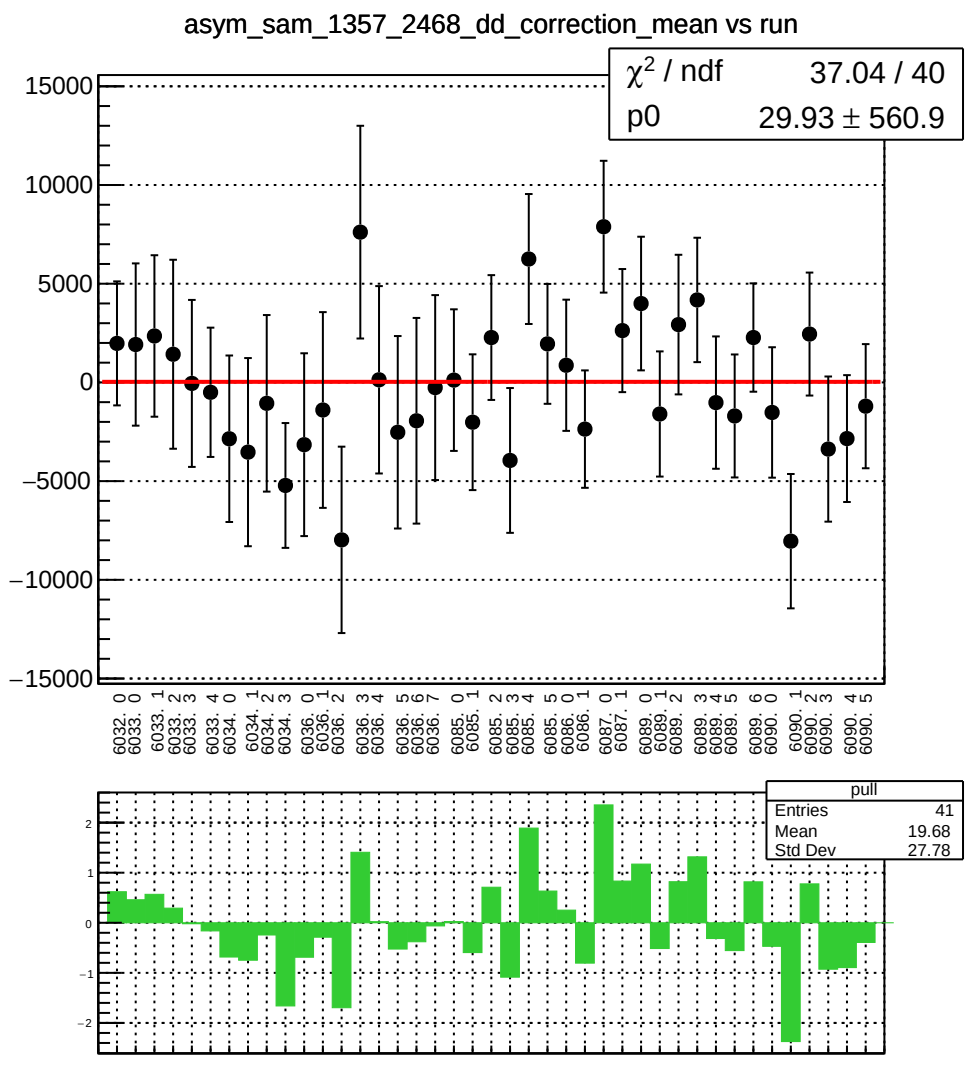

pull1D
Entries 41
Mean −0.02559
Std Dev 0.9712
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

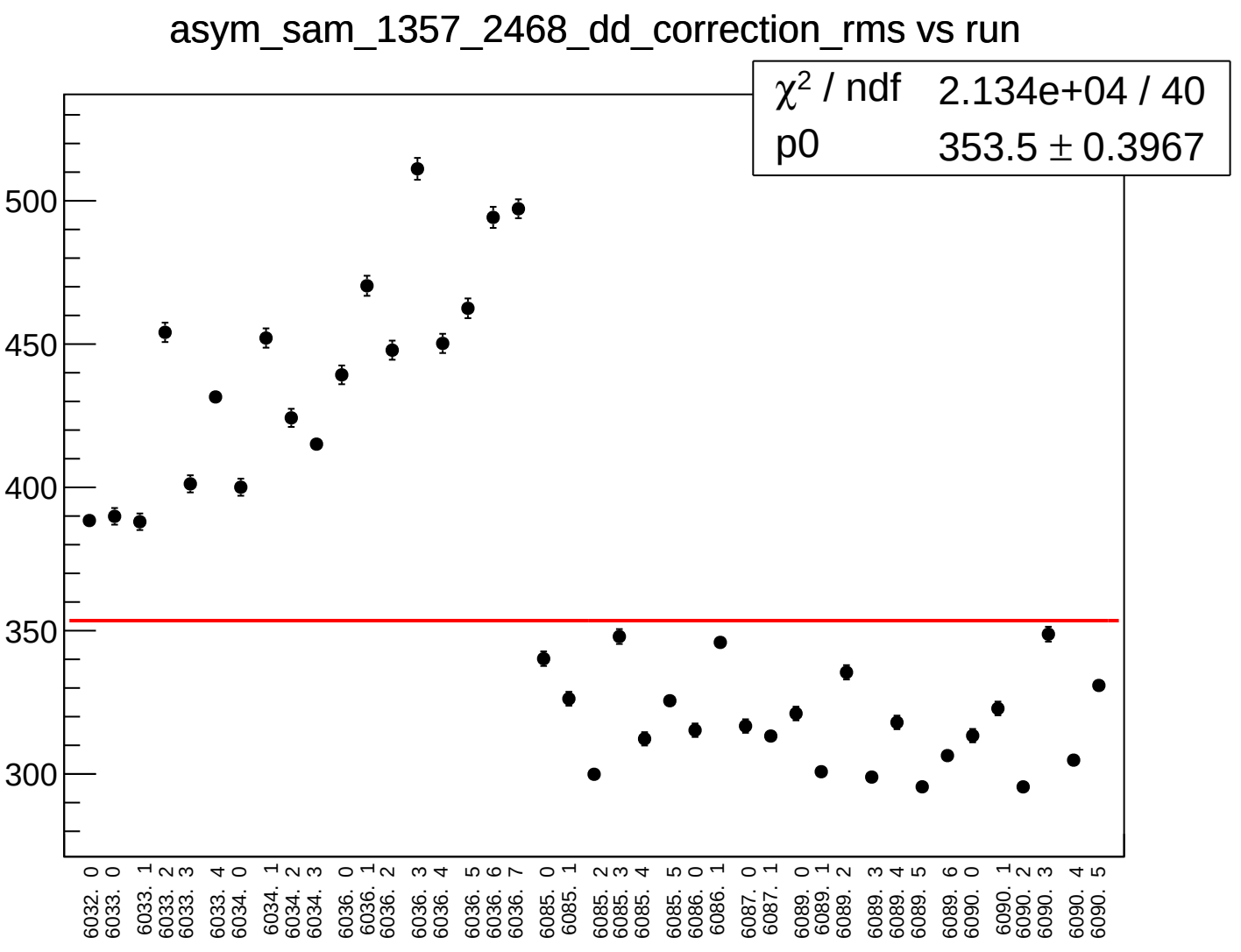

asym_sam_2468_avg_rms vs run
χ² / ndf 1.801e+04 / 40
p0 1260 ± 1.411
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

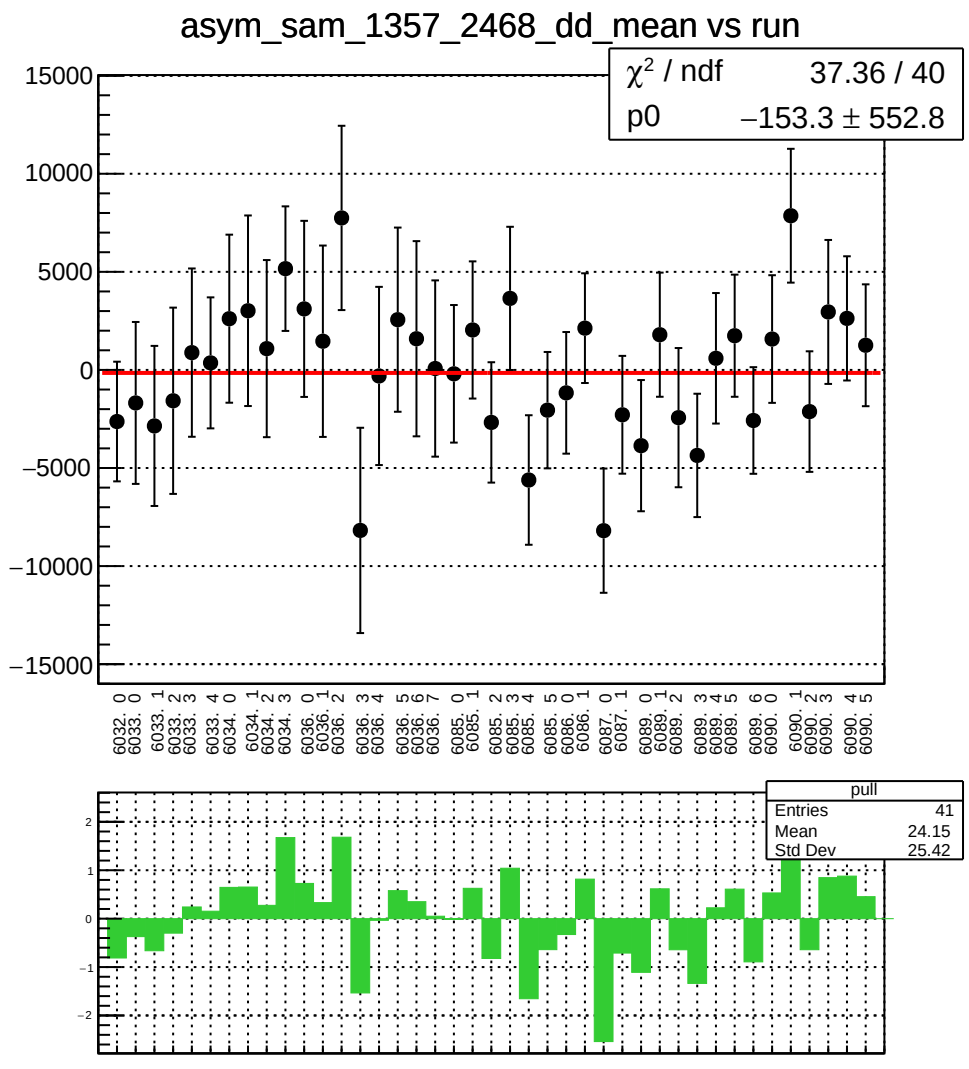

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 35.32 / 40
p0 −50.98 ± 47.03
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 140.7
Std Dev 125.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

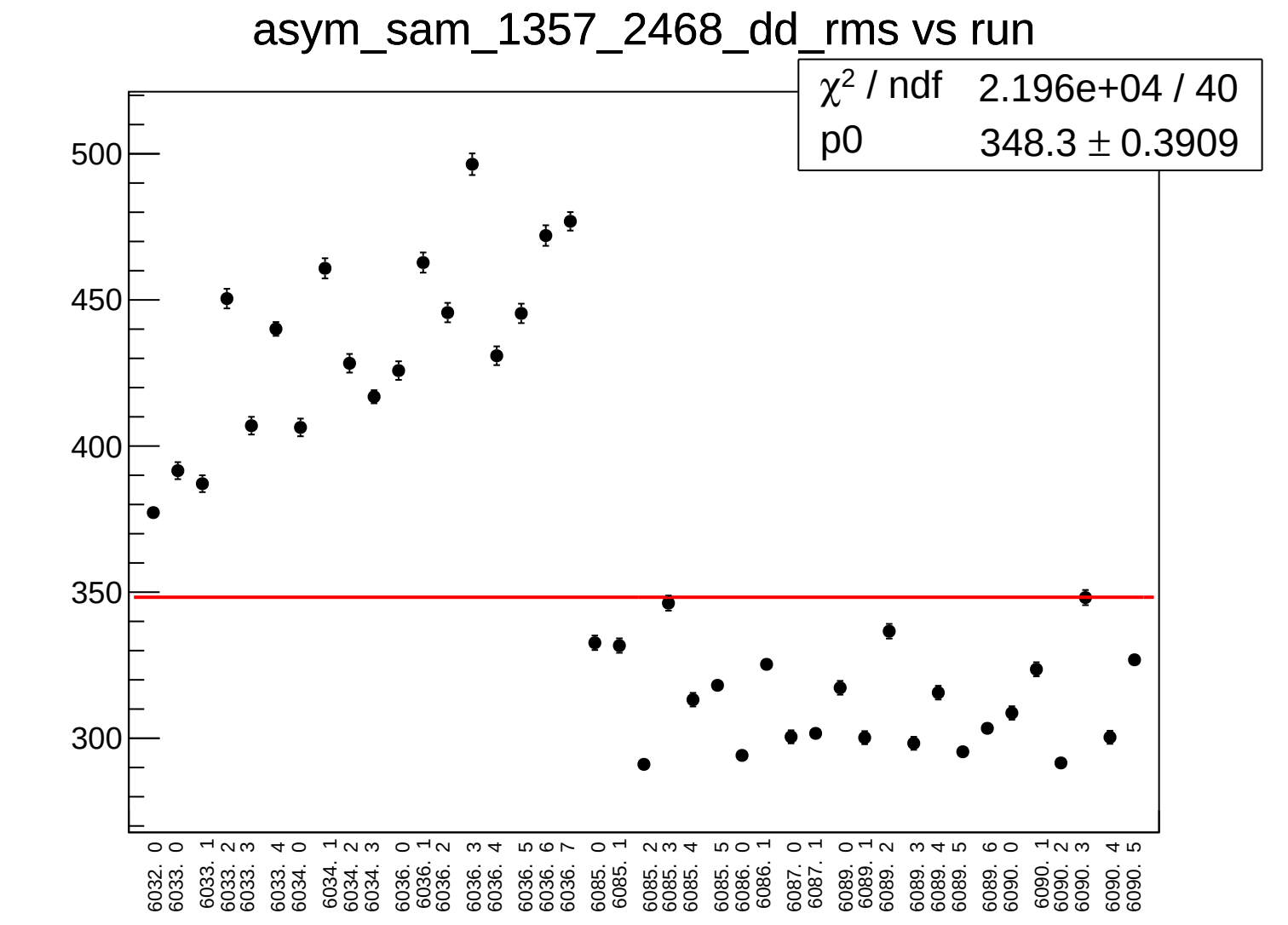

pull1D
Entries 41
Mean 0.01227
Std Dev 0.928
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

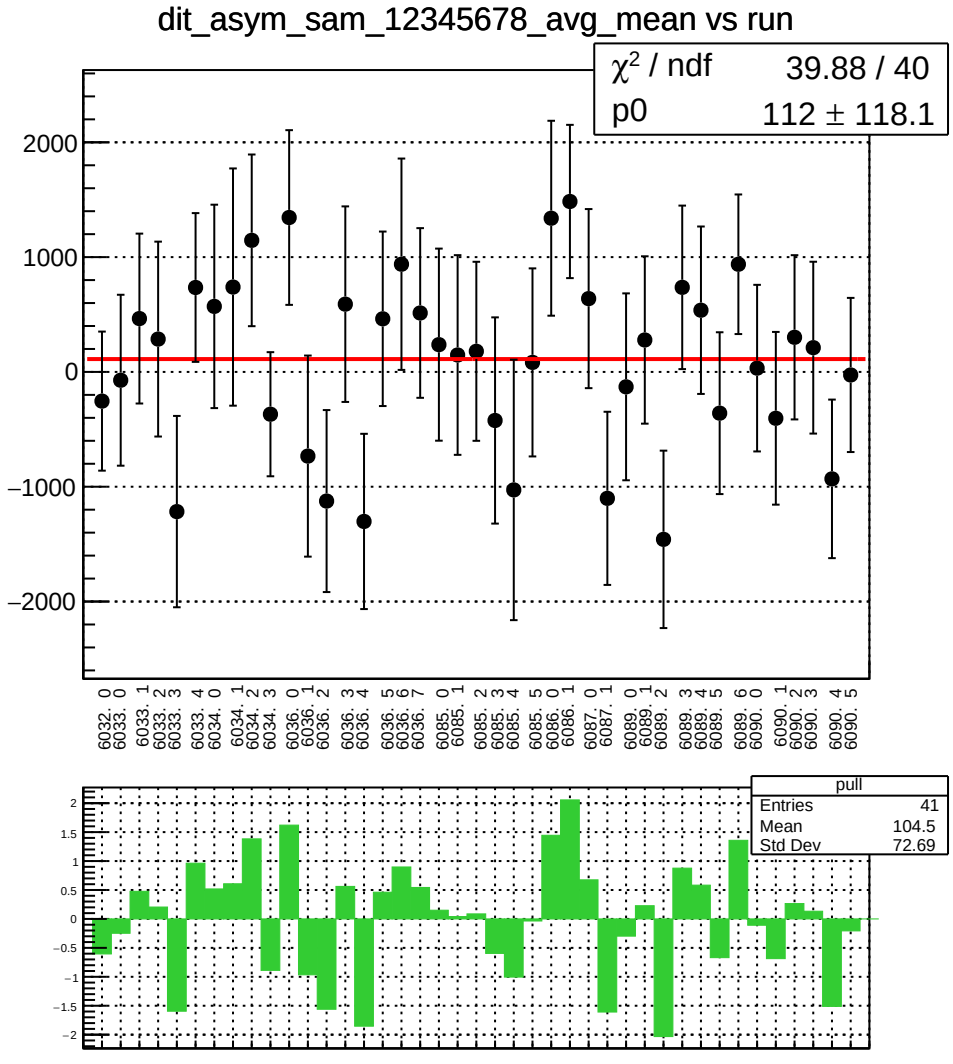

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8366 / 40
p0 29.88 ± 0.03325
40
38
36
34
32
30
28
26
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

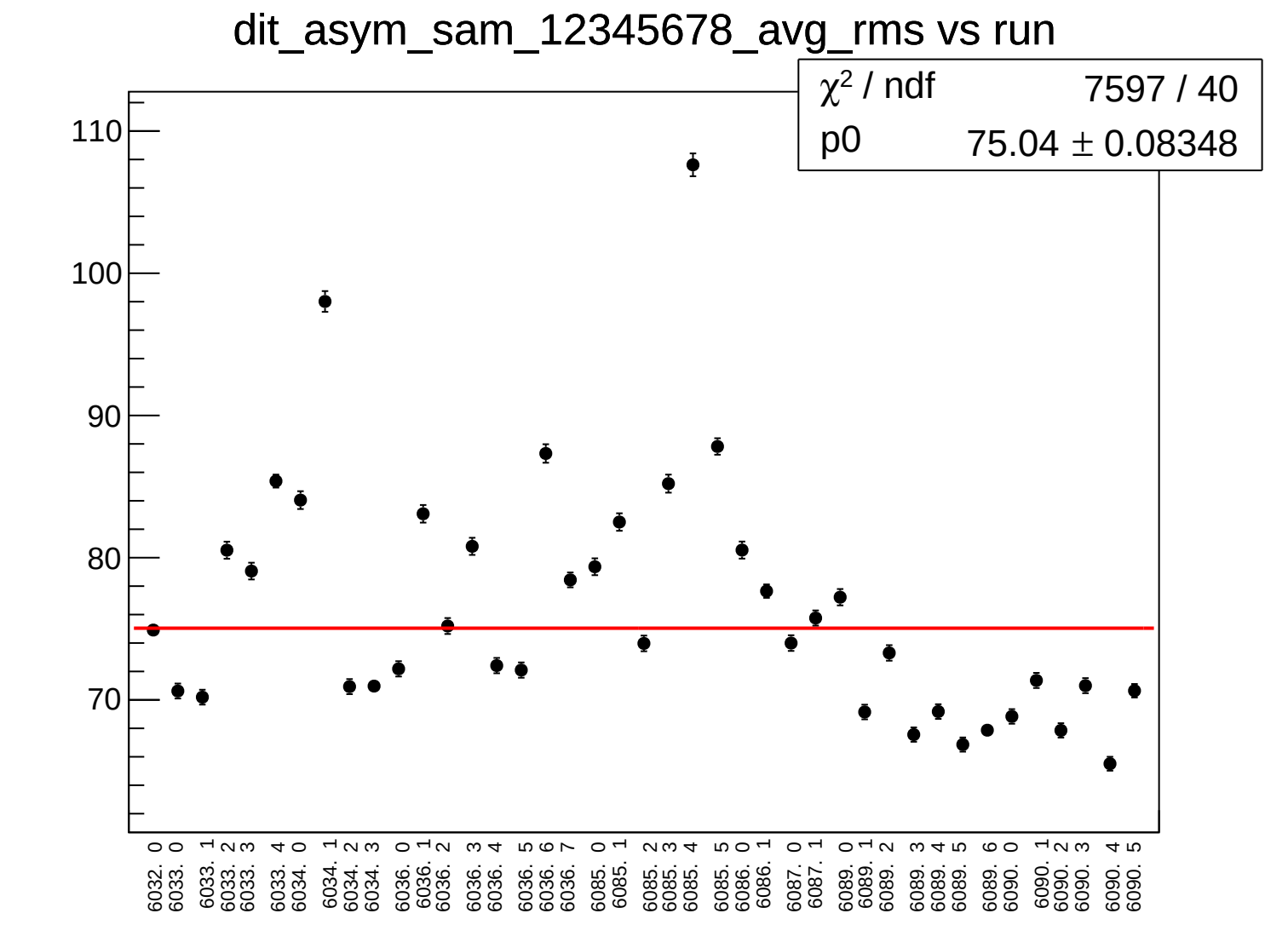

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 37.04 / 40
p0 29.93 ± 560.9
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 19.68
Std Dev 27.78
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02707
Std Dev 0.9501
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

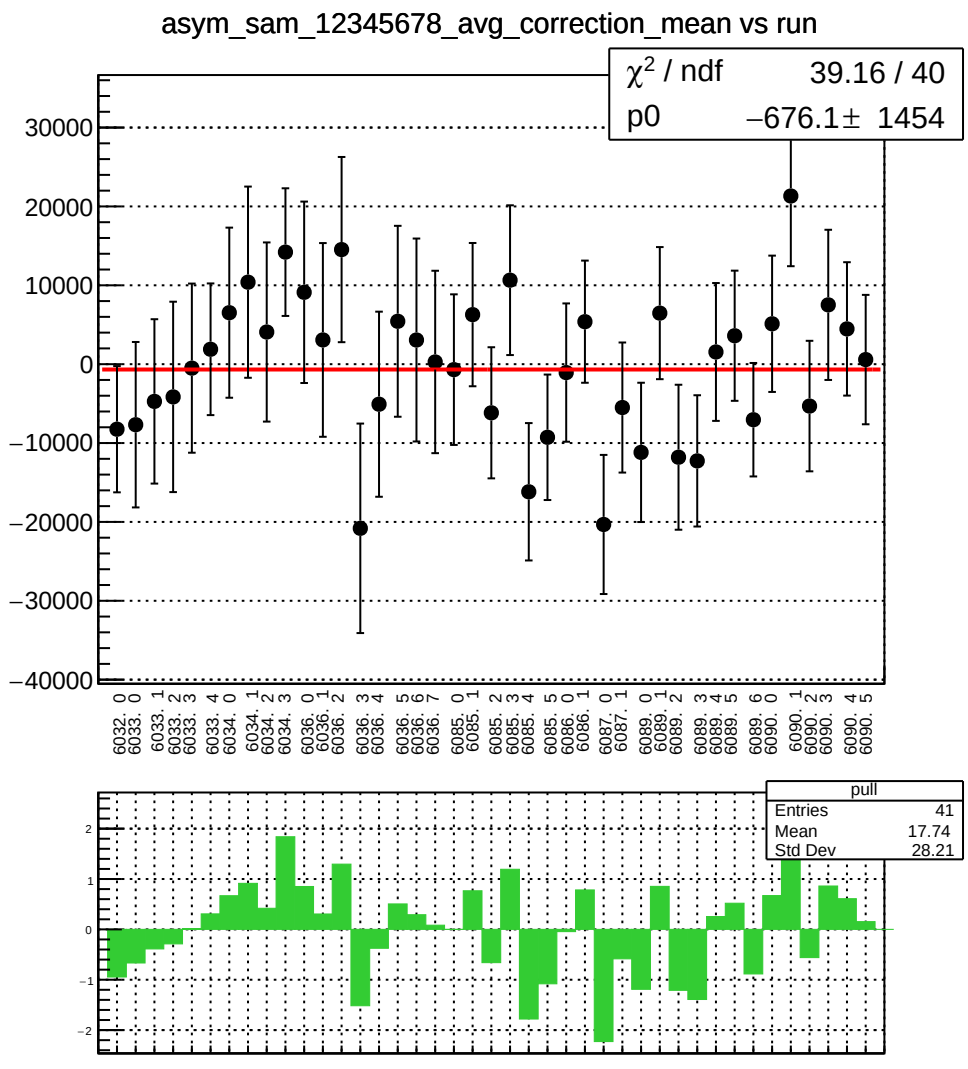

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2.134e+04 / 40
p0 353.5 ± 0.3967
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

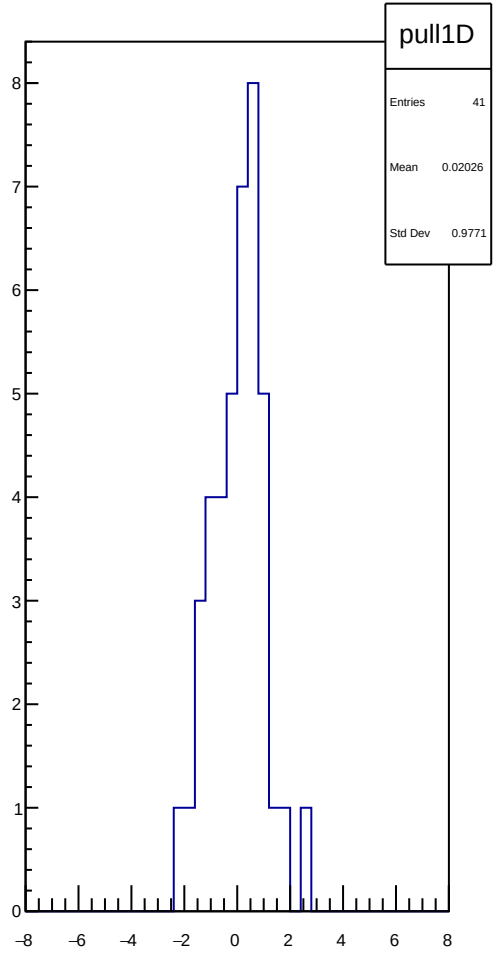

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 37.36 / 40
p0 −153.3 ± 552.8
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 24.15
Std Dev 25.42
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.03208
Std Dev 0.9541
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

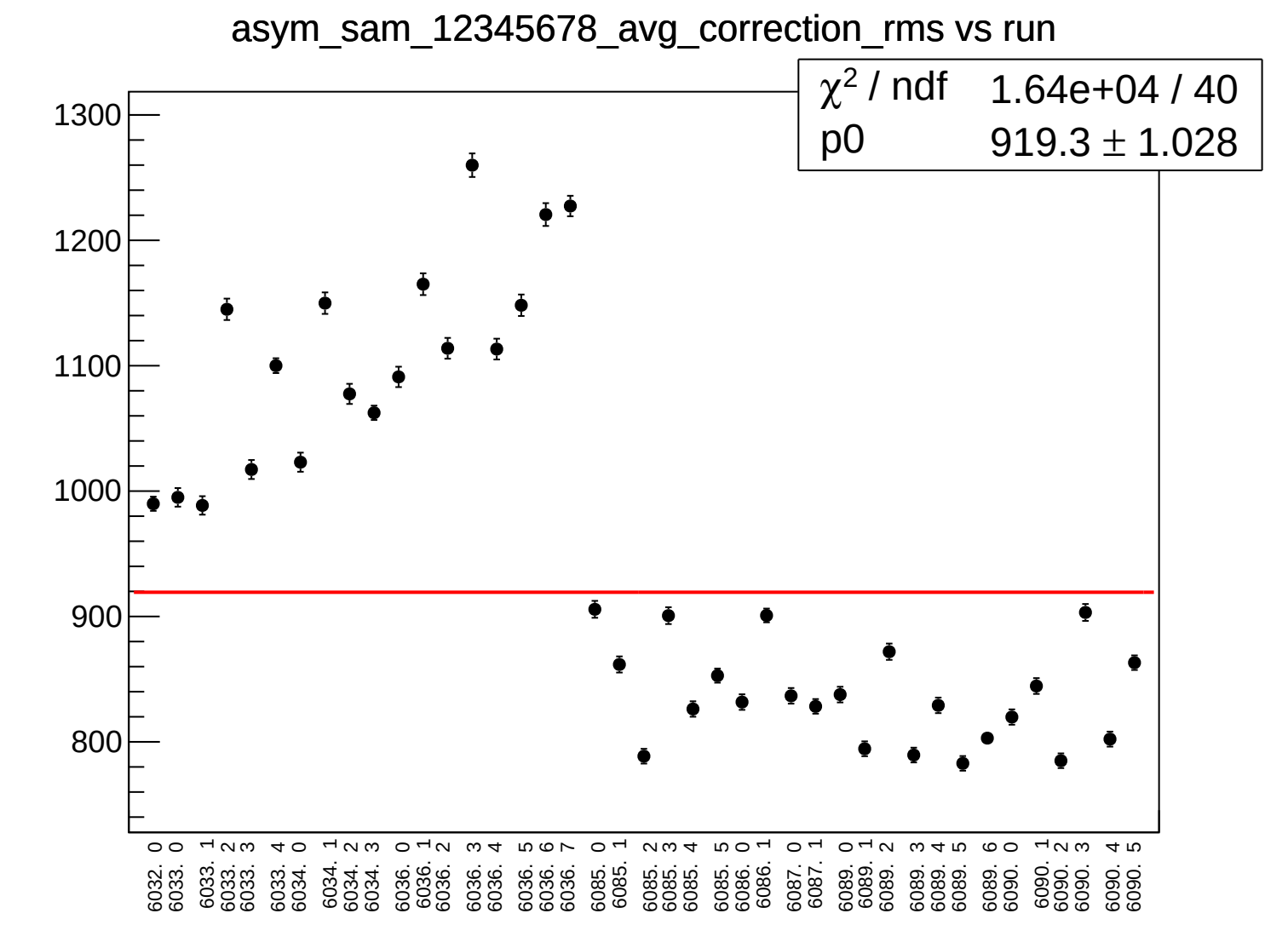

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.196e+04 / 40
p0 348.3 ± 0.3909
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

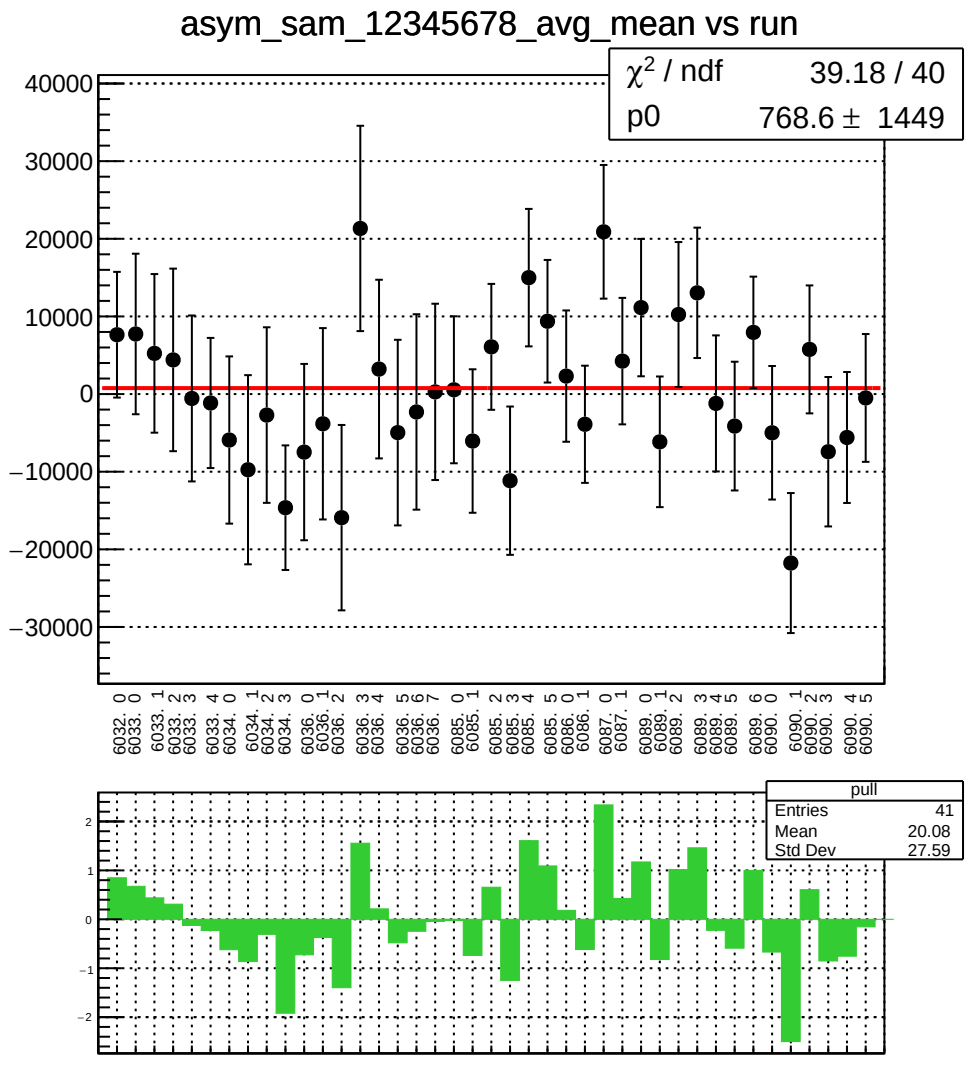

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 39.88 / 40
p0 112 ± 118.1
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 104.5
Std Dev 72.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.008114
Std Dev 0.9863
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

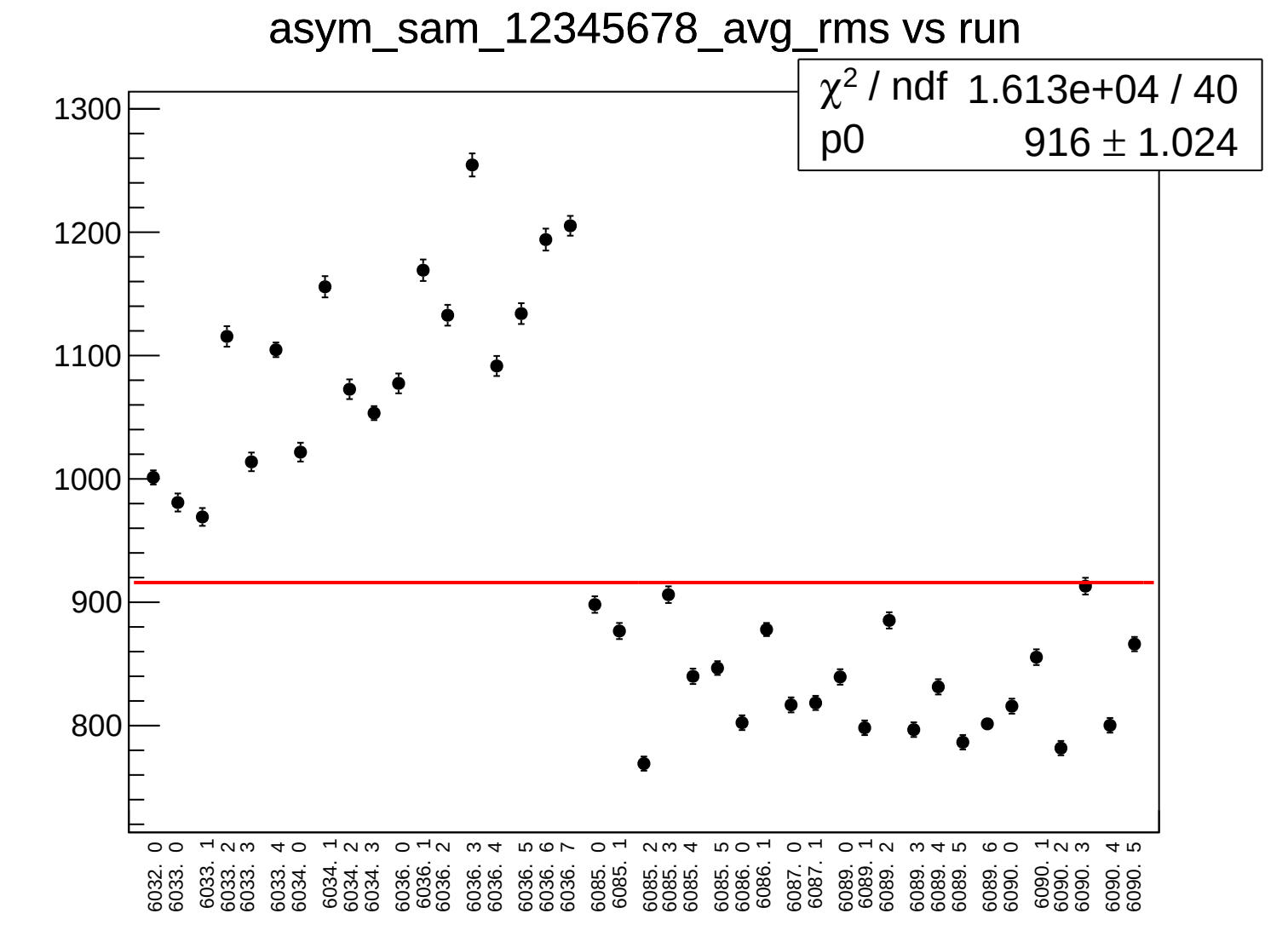

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 7597 / 40
p0 75.04 ± 0.08348
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

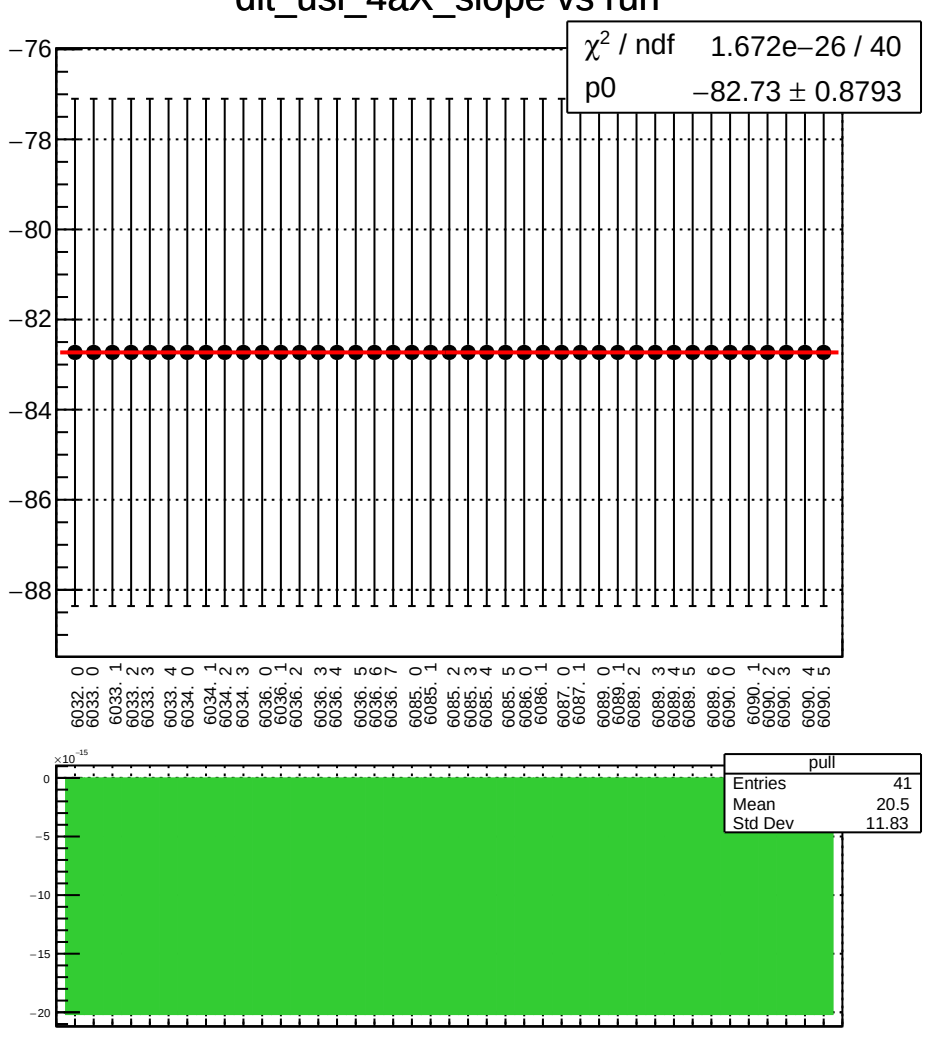

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 39.16 / 40
p0 −676.1± 1454
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 17.74
Std Dev 28.21
2
1
0
−1
−2

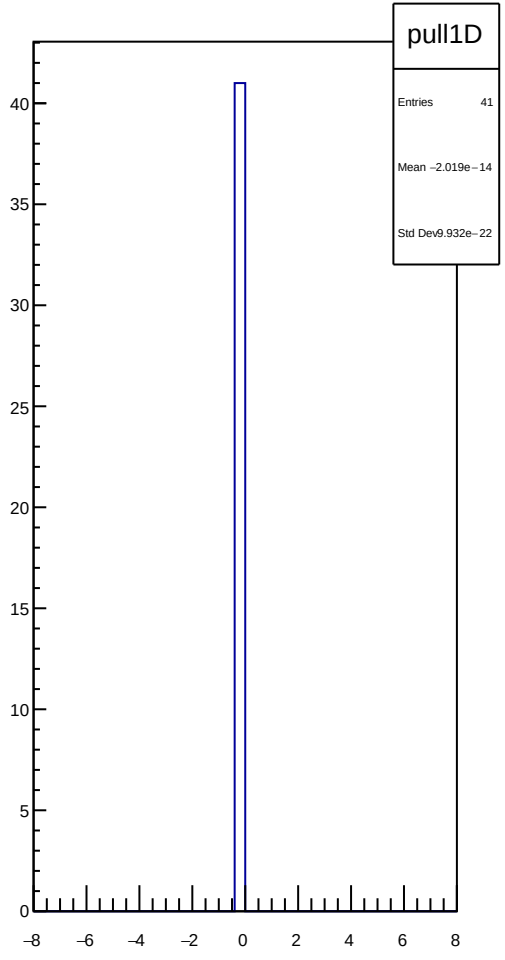

pull1D
Entries 41
Mean 0.02026
Std Dev 0.9771
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

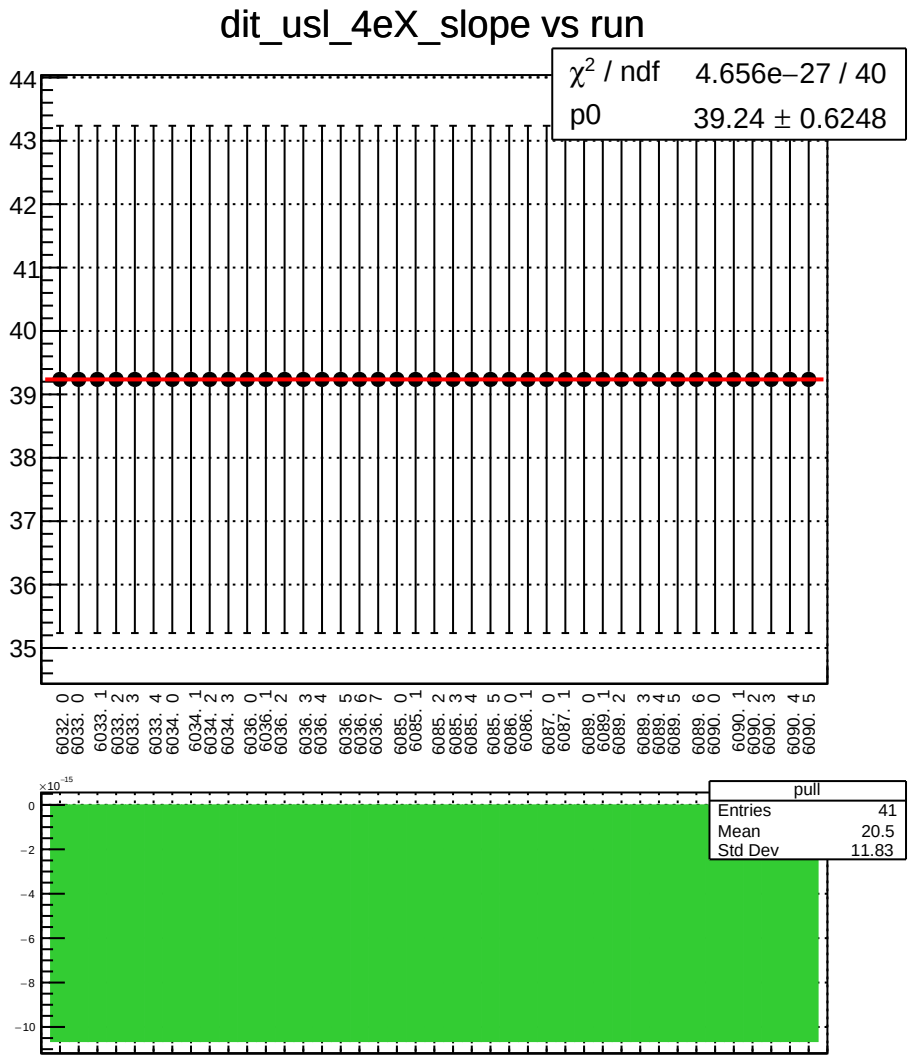

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.64e+04 / 40
p0 919.3 ± 1.028
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

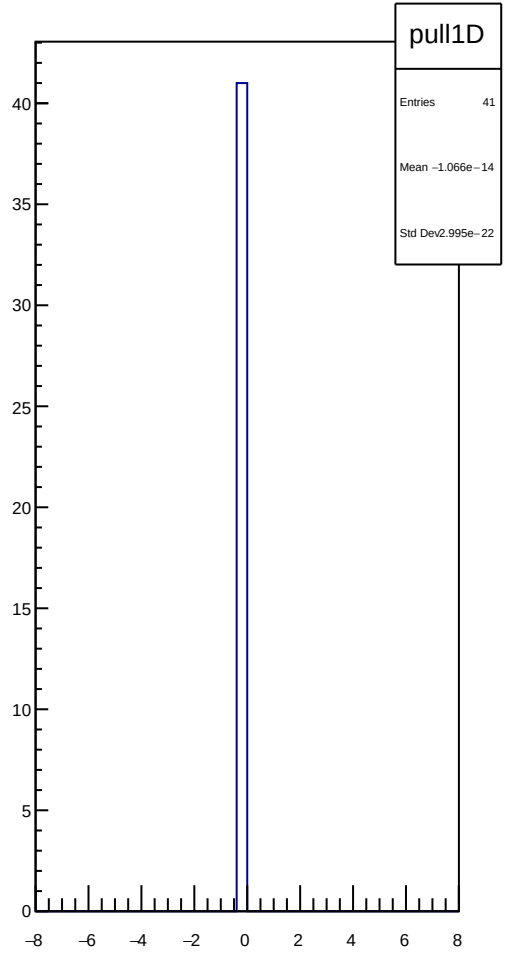

asym_sam_12345678_avg_mean vs run
χ² / ndf 39.18 / 40
p0 768.6 ± 1449
pull
Entries 41
Mean 20.08
Std Dev 27.59
pull1D
Entries 41
Mean −0.0226
Std Dev 0.9772

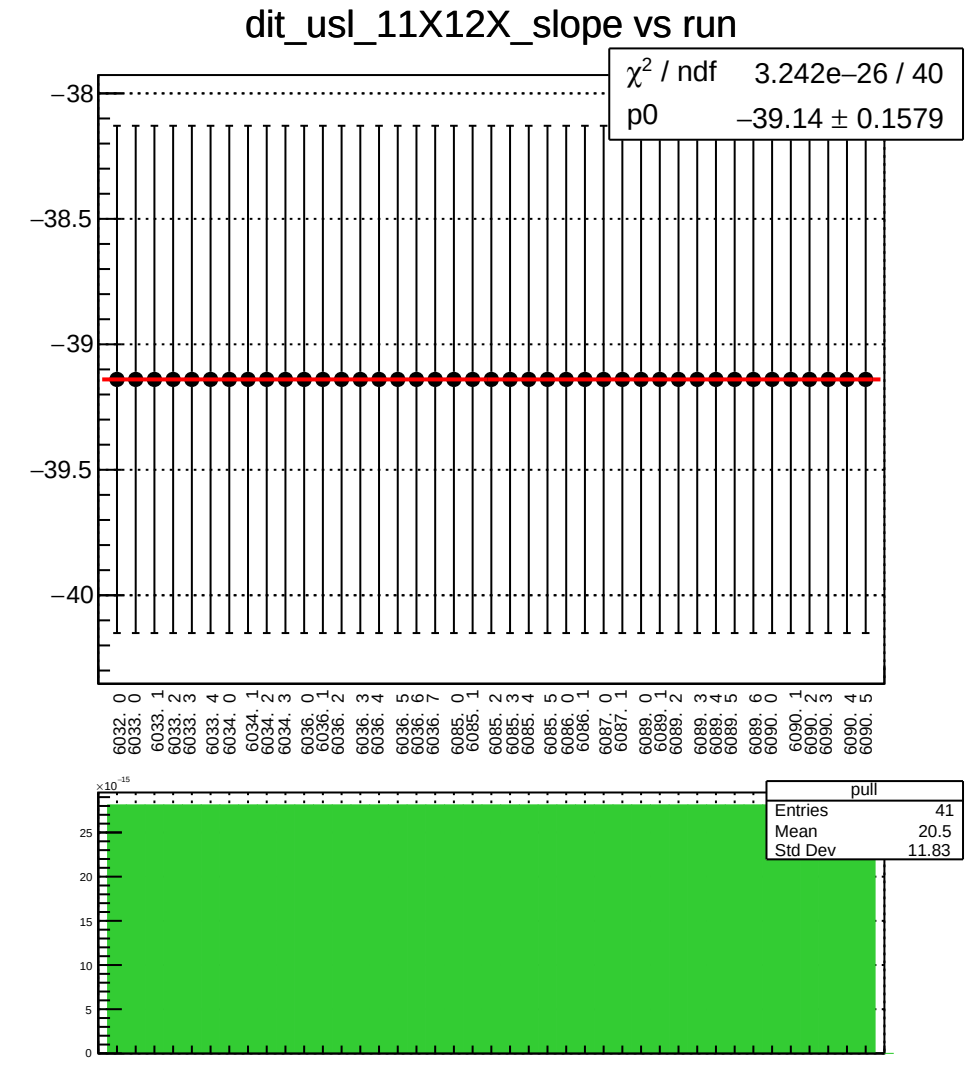

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.613e+04 / 40
p0 916 ± 1.024
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

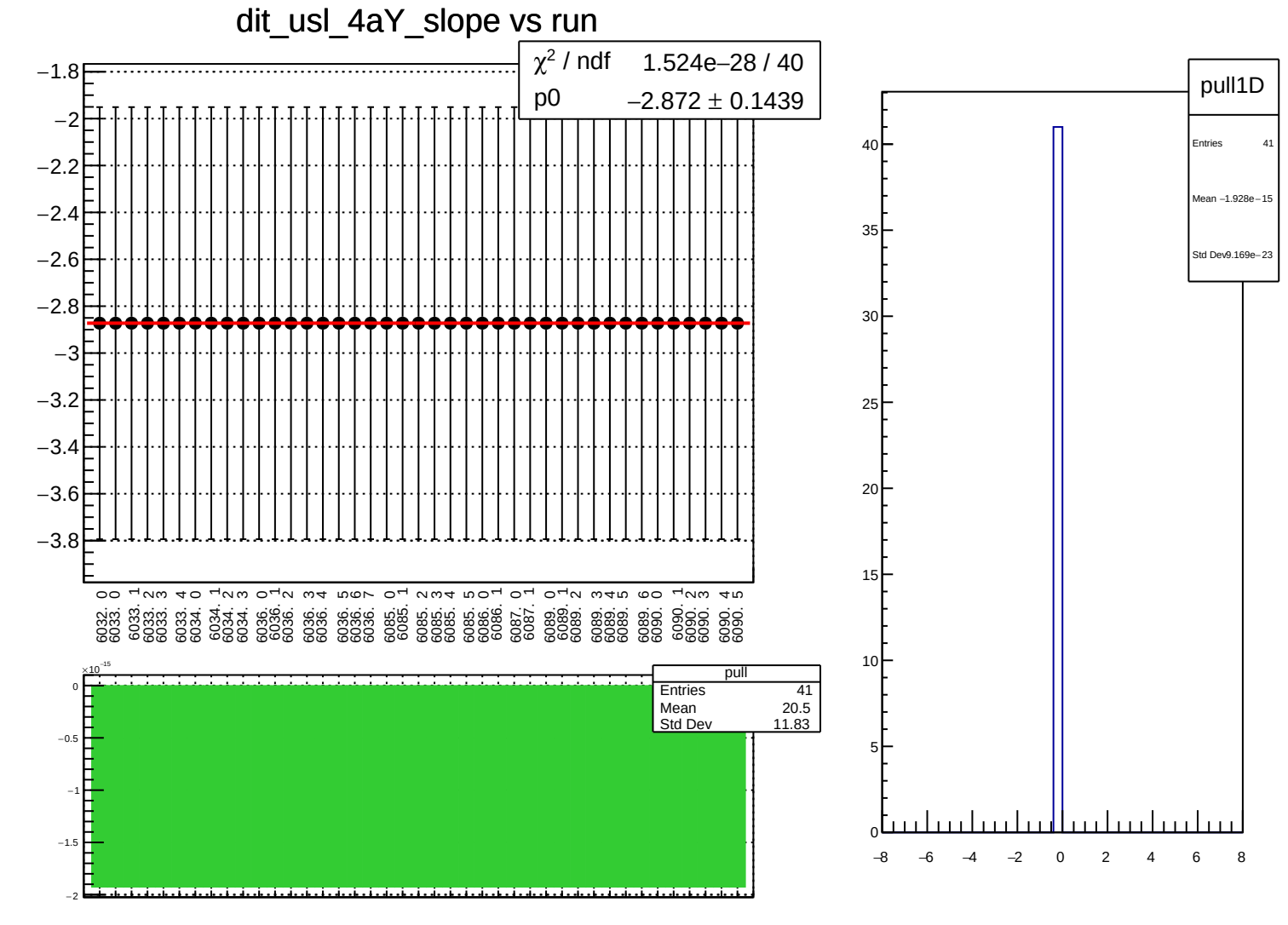

dit_usl_4aX_slope vs run
χ² / ndf 1.672e−26 / 40
p0 −82.73 ± 0.8793
−76
−78
−80
−82
−84
−86
−88
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 41
Mean 20.5
Std Dev 11.83

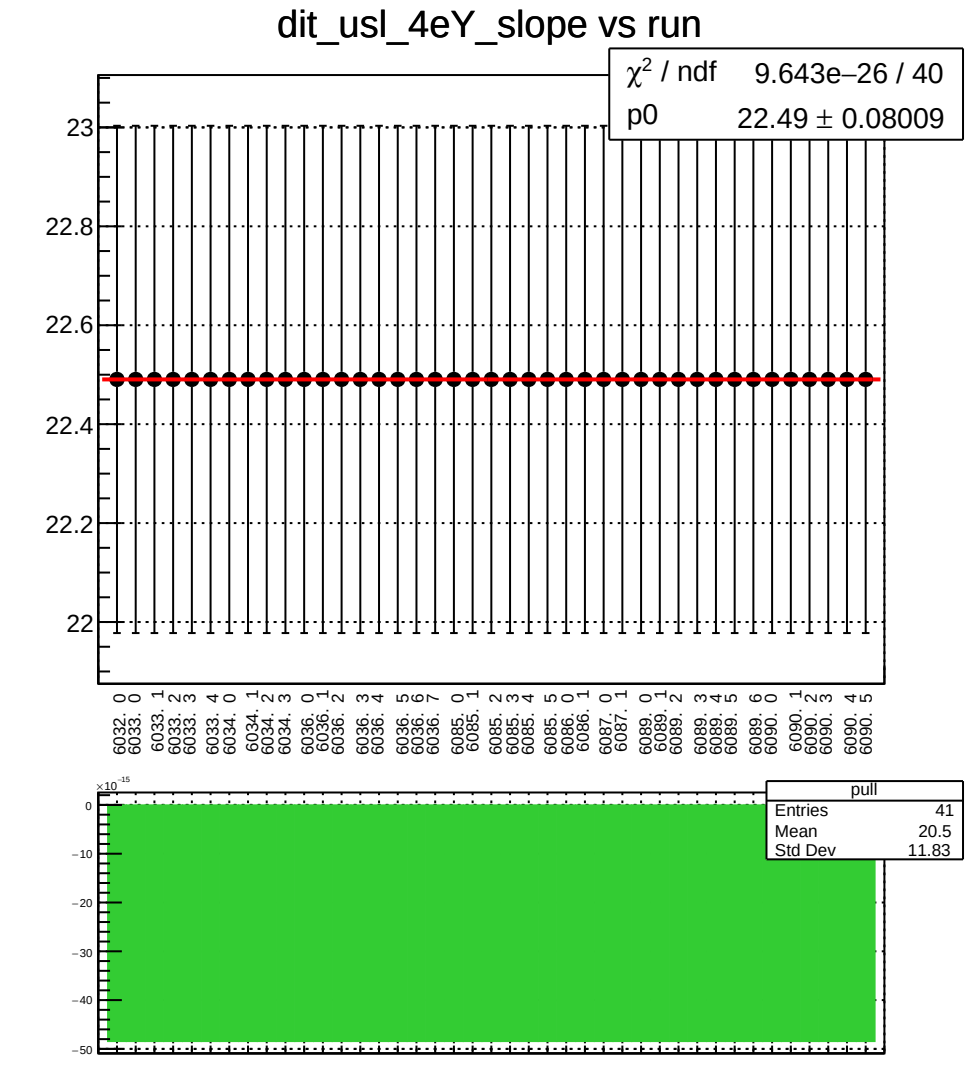

pull1D
Entries 41
Mean −2.019e−14
Std Dev9.932e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

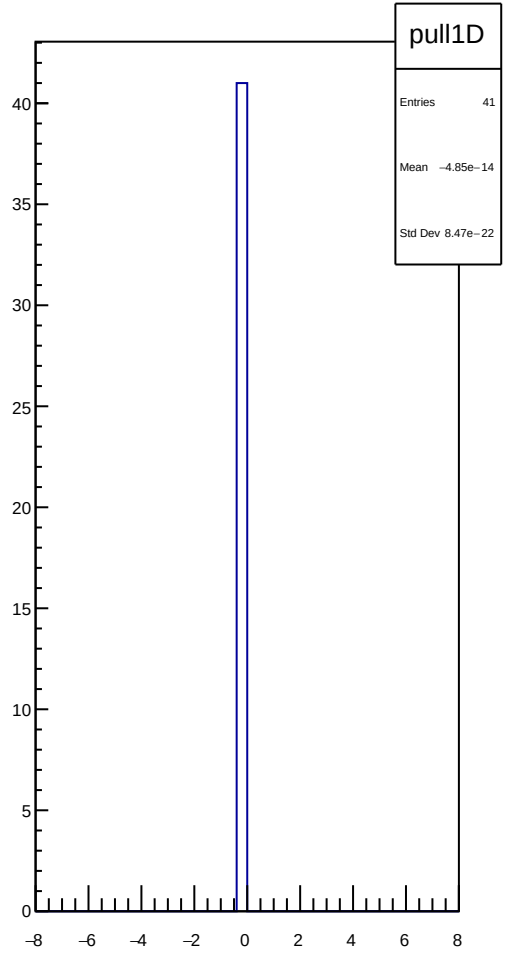

dit_usl_4eX_slope vs run
χ² / ndf 4.656e−27 / 40
p0 39.24 ± 0.6248
pull
Entries 41
Mean 20.5
Std Dev 11.83

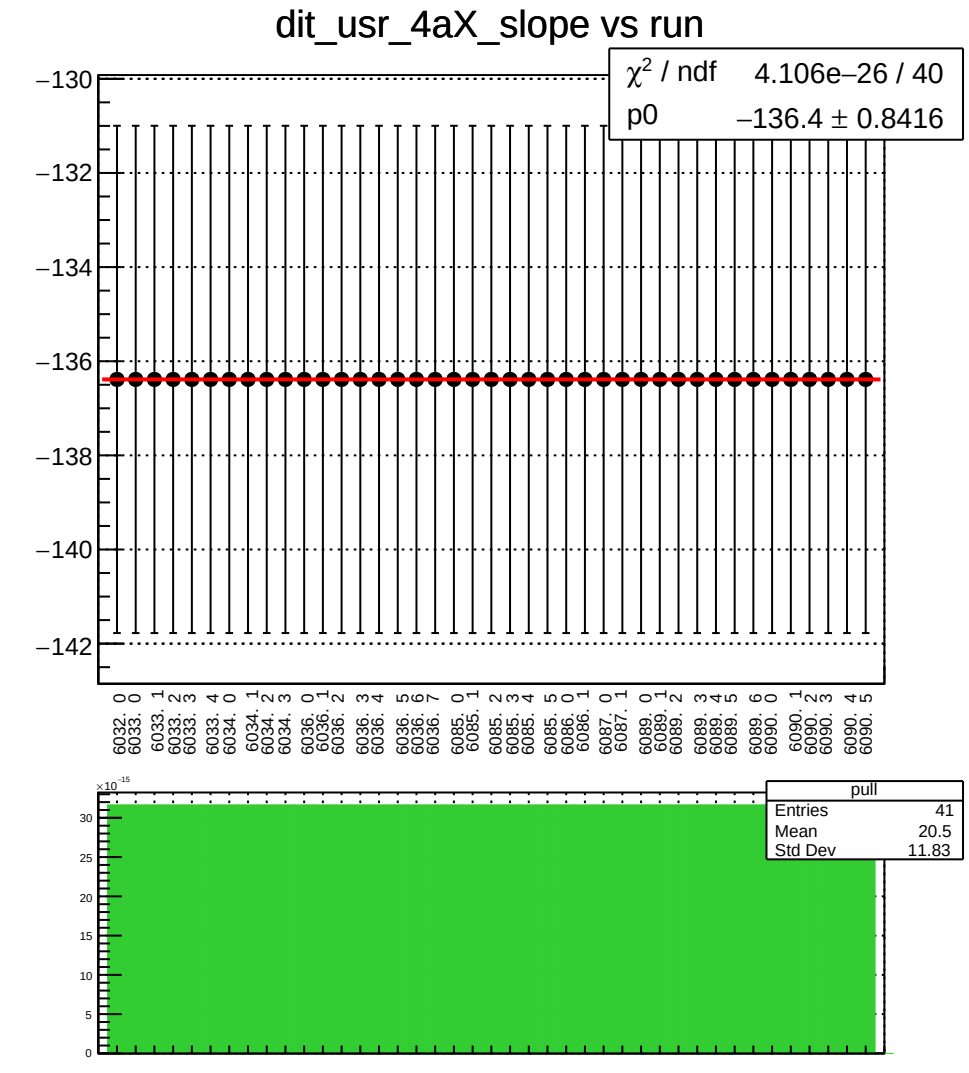

pull1D
Entries 41
Mean −1.066e−14
Std Dev 2.995e−22

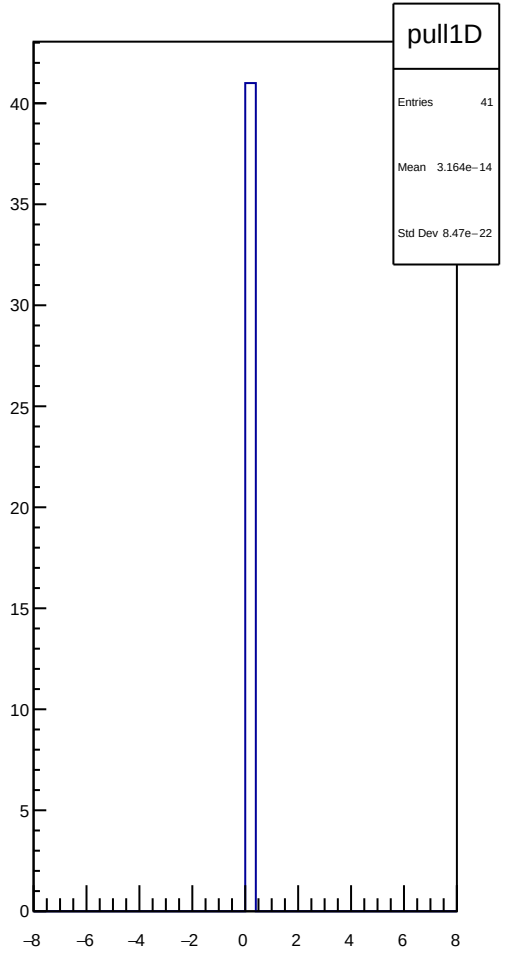

dit_usl_11X12X_slope vs run
χ² / ndf 3.242e−26 / 40
p0 −39.14 ± 0.1579
−38
−38.5
−39
−39.5
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
5
10
15
20
25
pull1D
Entries 41
Mean 2.812e−14
Std Dev 1.08e−21
0
5
10
15
20
25
30
35
40
−8
−6
−4
−2
0
2
4
6
8

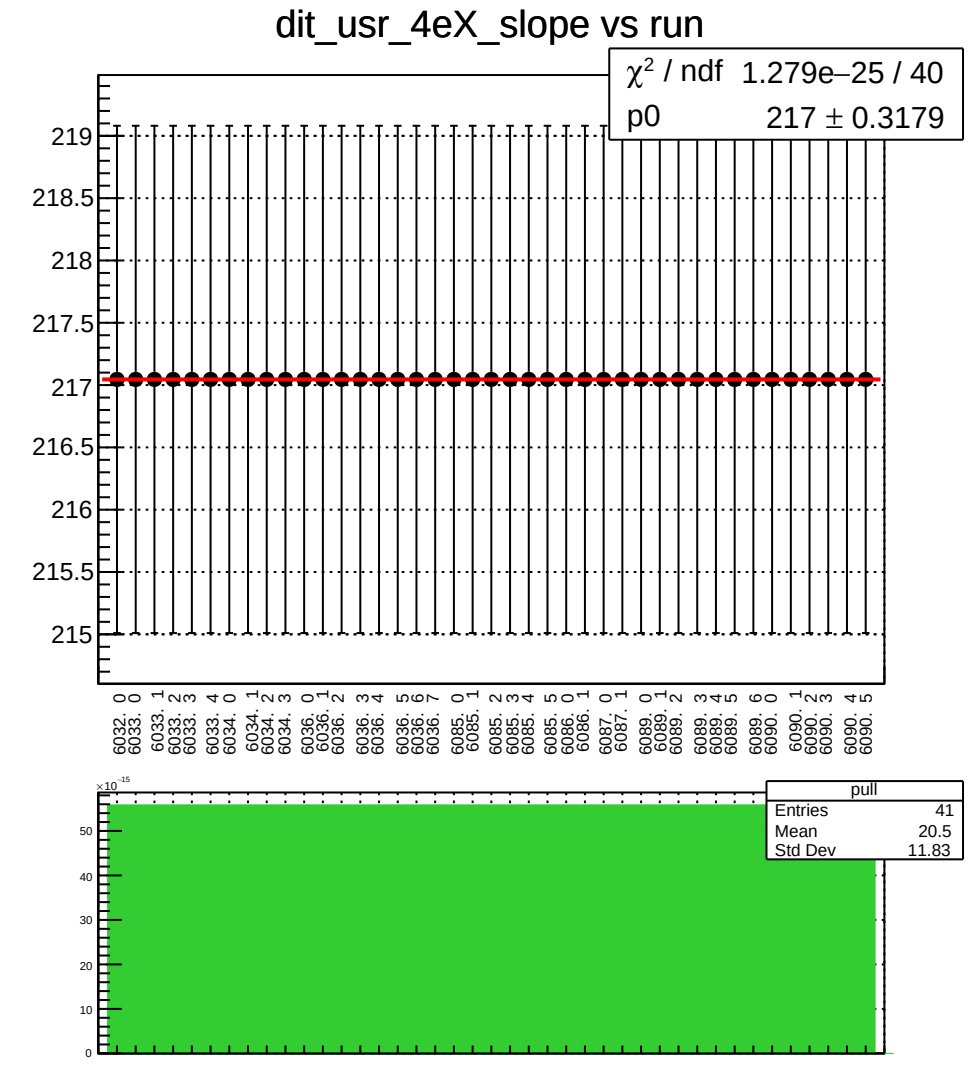

dit_usl_4aY_slope vs run
χ² / ndf 1.524e−28 / 40
p0 −2.872 ± 0.1439
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.928e−15
Std Dev9.169e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

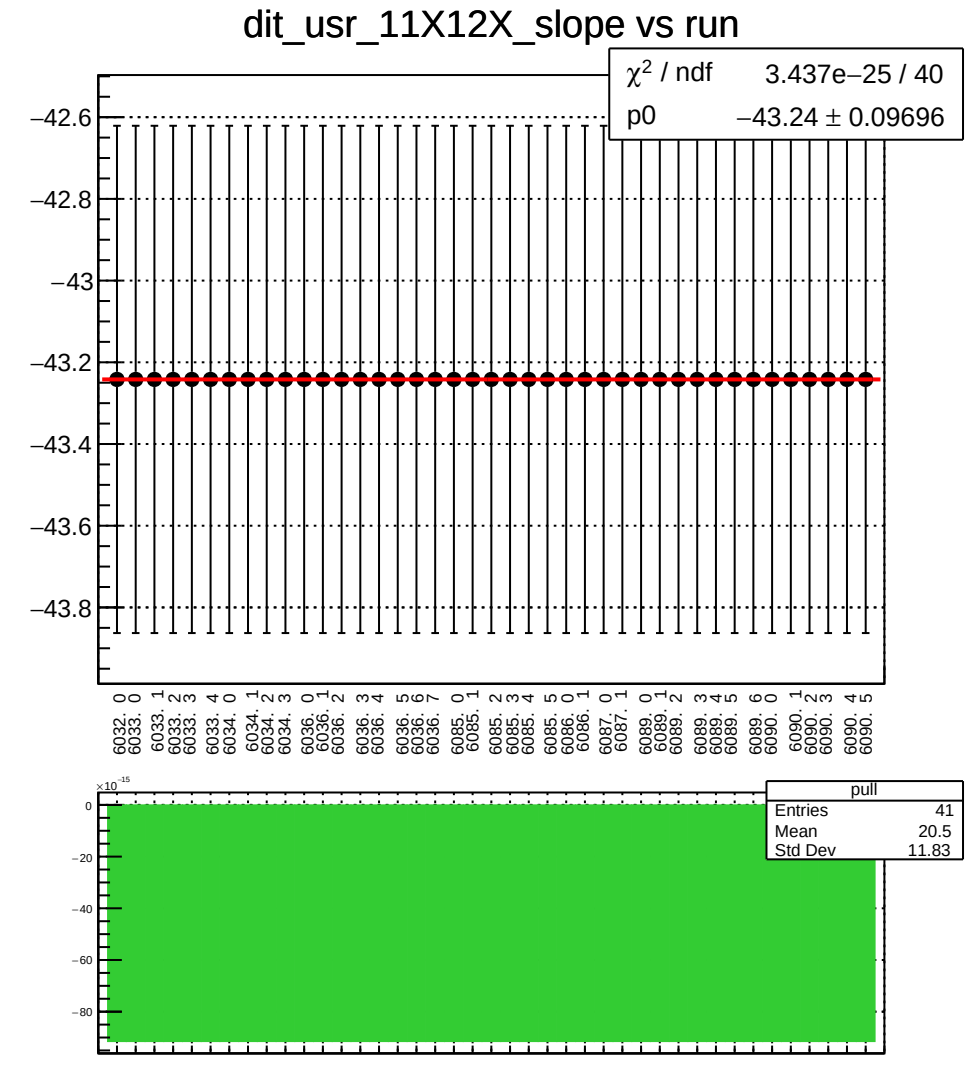

dit_usl_4eY_slope vs run
χ² / ndf 9.643e−26 / 40
p0 22.49 ± 0.08009
23
22.8
22.6
22.4
22.2
22
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 41
Mean 20.5
Std Dev 11.83

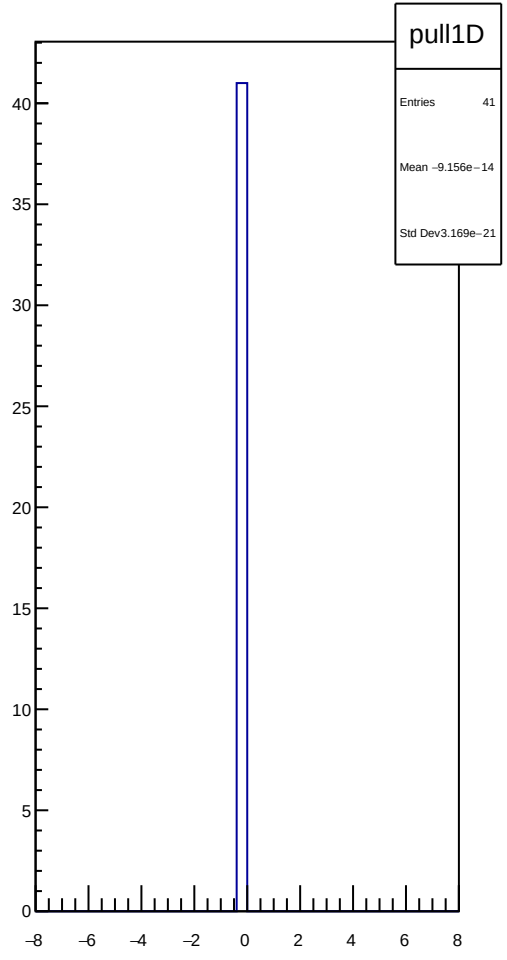

pull1D
Entries 41
Mean −4.85e−14
Std Dev 8.47e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

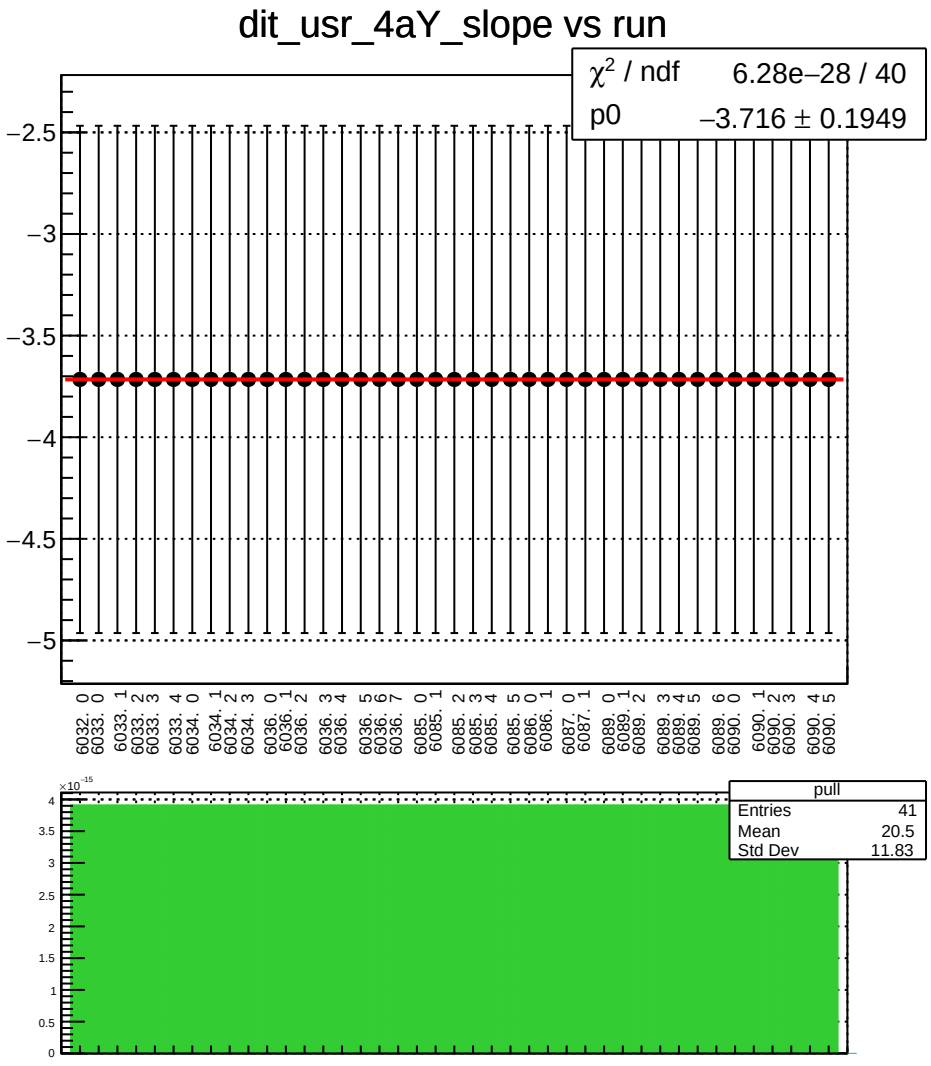

dit_usr_4aX_slope vs run
χ² / ndf 4.106e−26 / 40
p0 −136.4 ± 0.8416
−130
−132
−134
−136
−138
−140
−142
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
30
25
20
15
10
5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

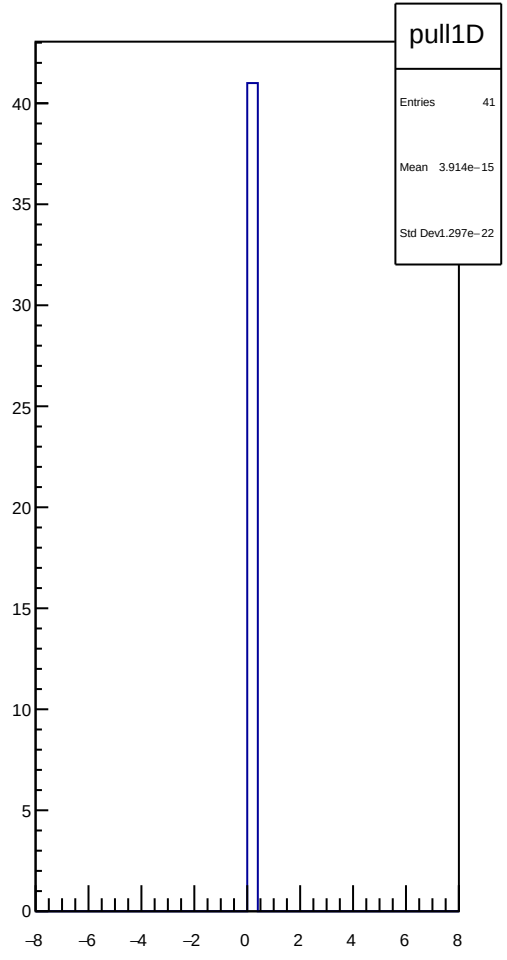

pull1D
Entries 41
Mean 3.164e−14
Std Dev 8.47e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

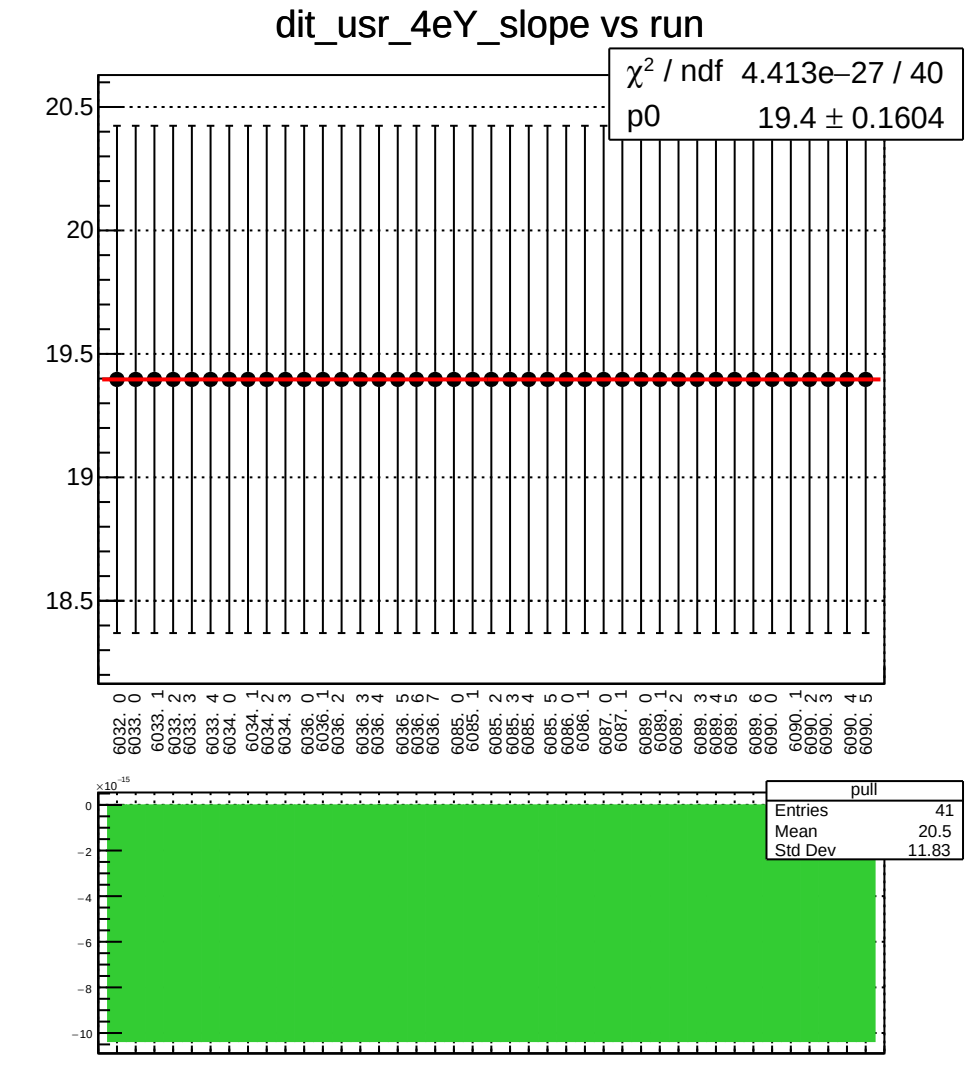

dit_usr_4eX_slope vs run
χ² / ndf 1.279e−25 / 40
p0 217 ± 0.3179
219
218.5
218
217.5
217
216.5
216
215.5
215
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻�15
50
40
30
20
10
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 5.585e−14
Std Dev 5.989e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

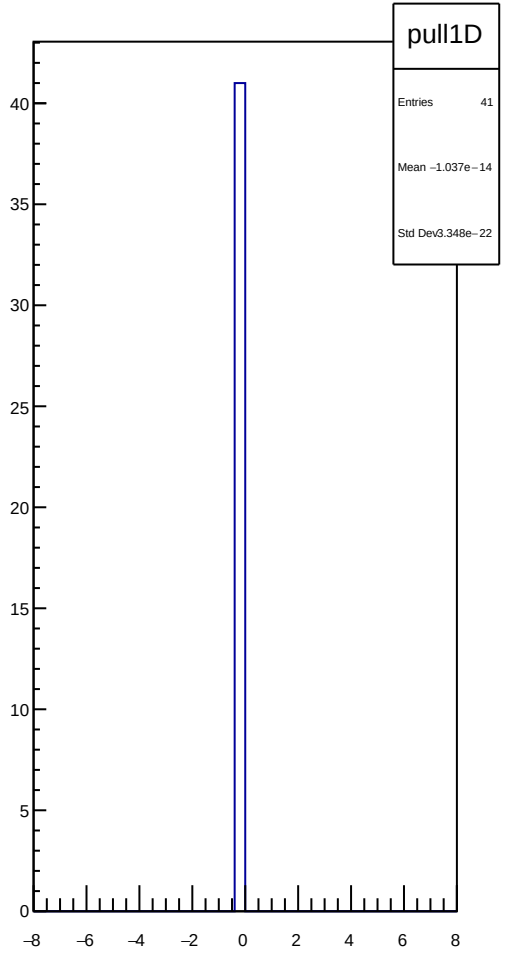

dit_usr_11X12X_slope vs run
χ² / ndf 3.437e−25 / 40
p0 −43.24 ± 0.09696
−42.6
−42.8
−43
−43.2
−43.4
−43.6
−43.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−20
−40
−60
−80
pull
Entries 41
Mean 20.5
Std Dev 11.83

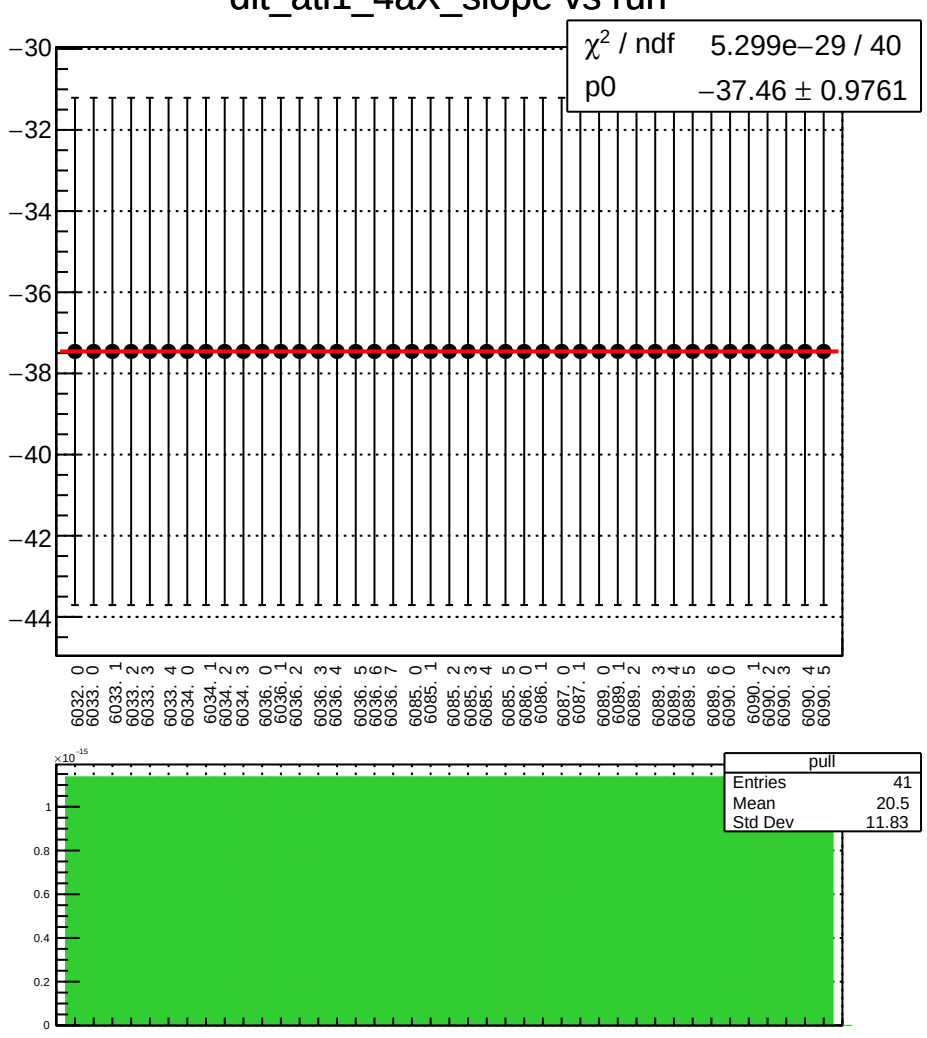

pull1D
Entries 41
Mean −9.156e−14
Std Dev3.169e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

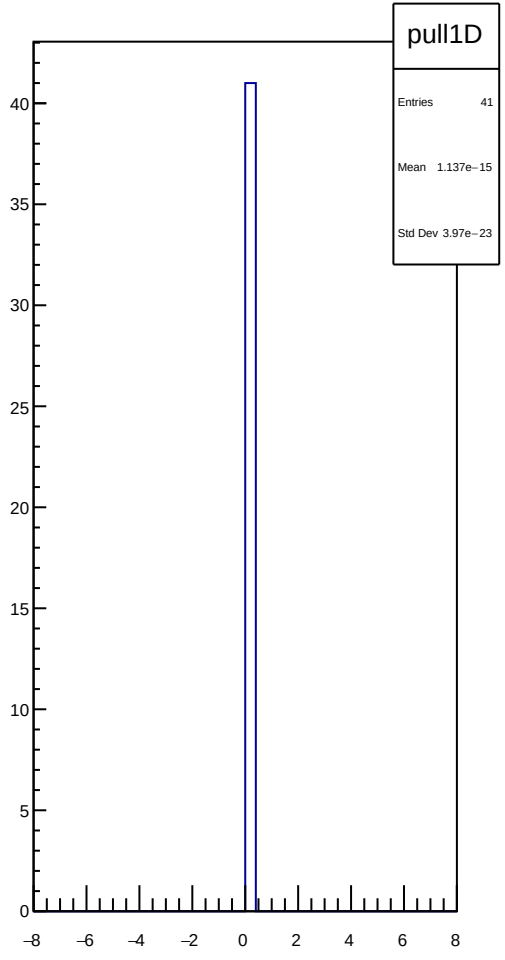

dit_usr_4aY_slope vs run
χ² / ndf 6.28e−28 / 40
p0 −3.716 ± 0.1949
−2.5
−3
−3.5
−4
−4.5
−5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0

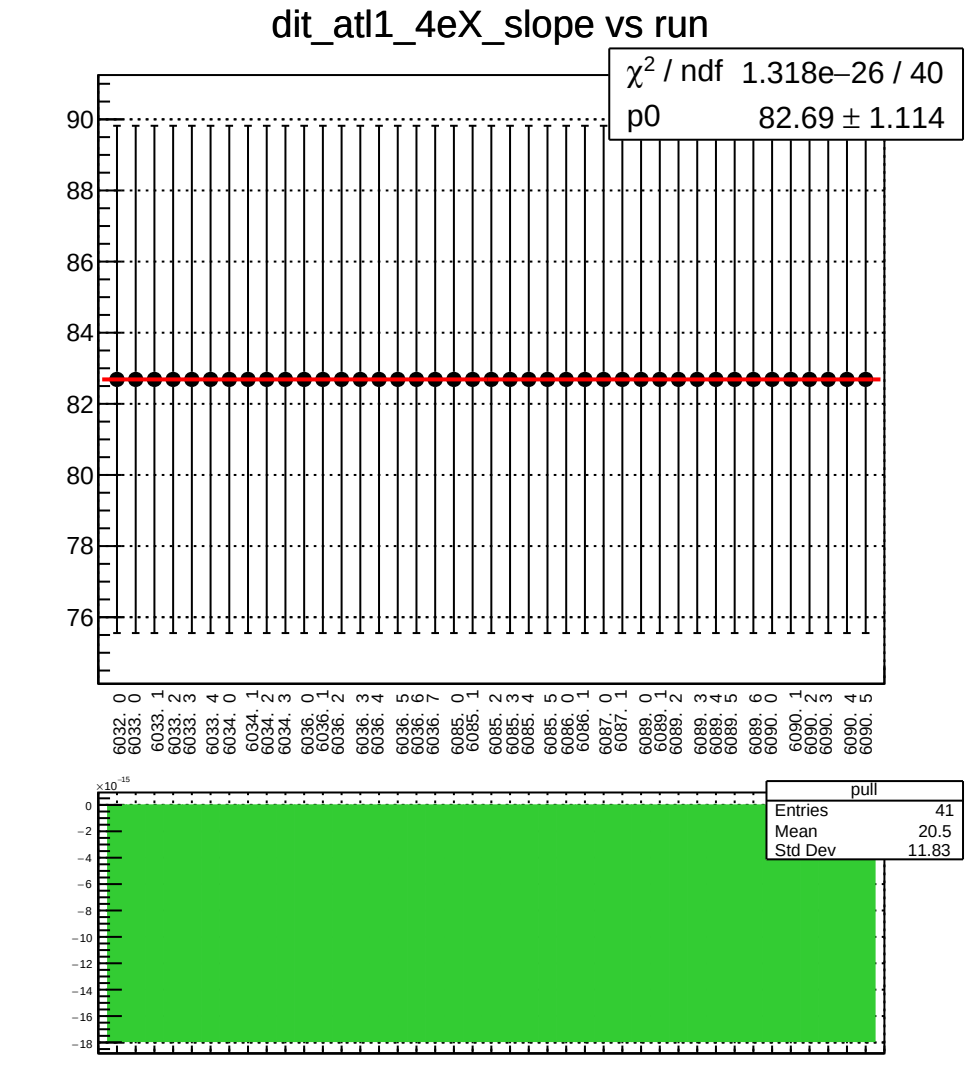

pull1D
Entries 41
Mean 3.914e−15
Std Dev1.297e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

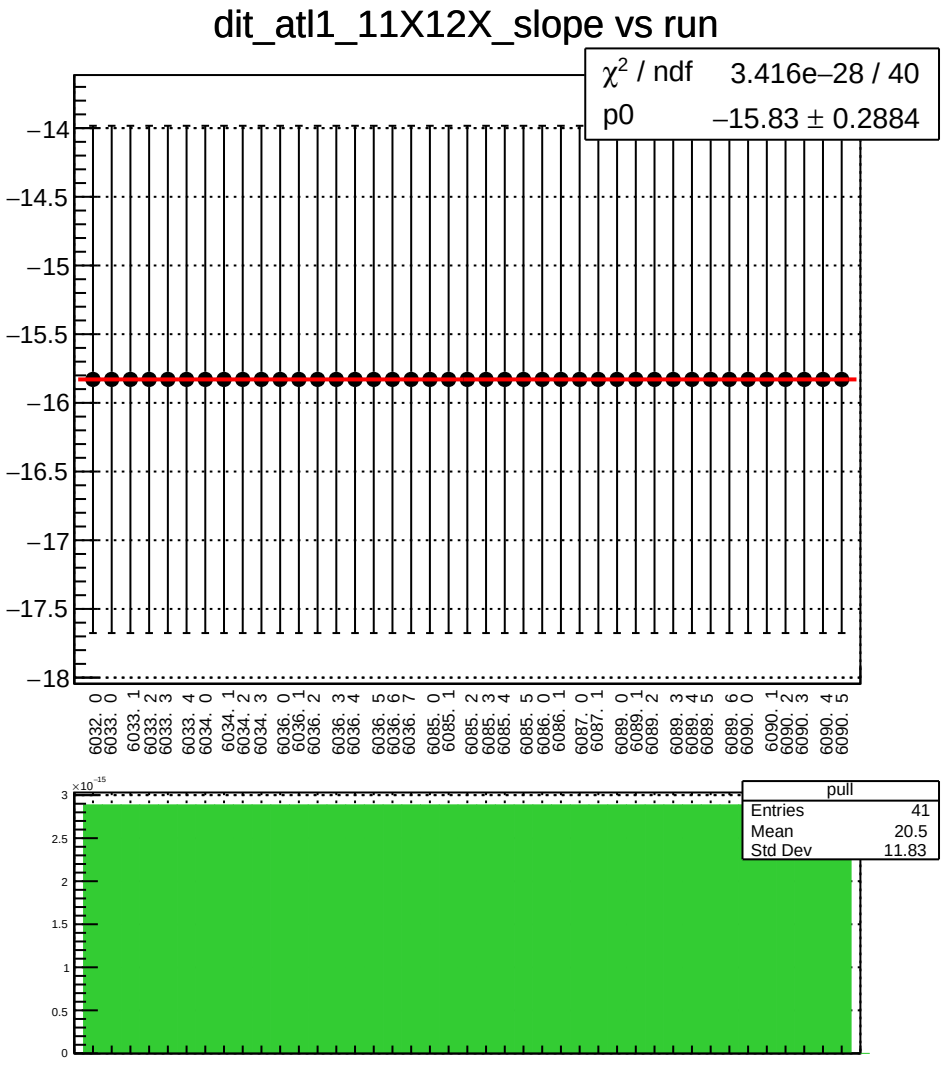

dit_usr_4eY_slope vs run
χ² / ndf 4.413e−27 / 40
p0 19.4 ± 0.1604
20.5
20
19.5
19
18.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 41
Mean 20.5
Std Dev 11.83

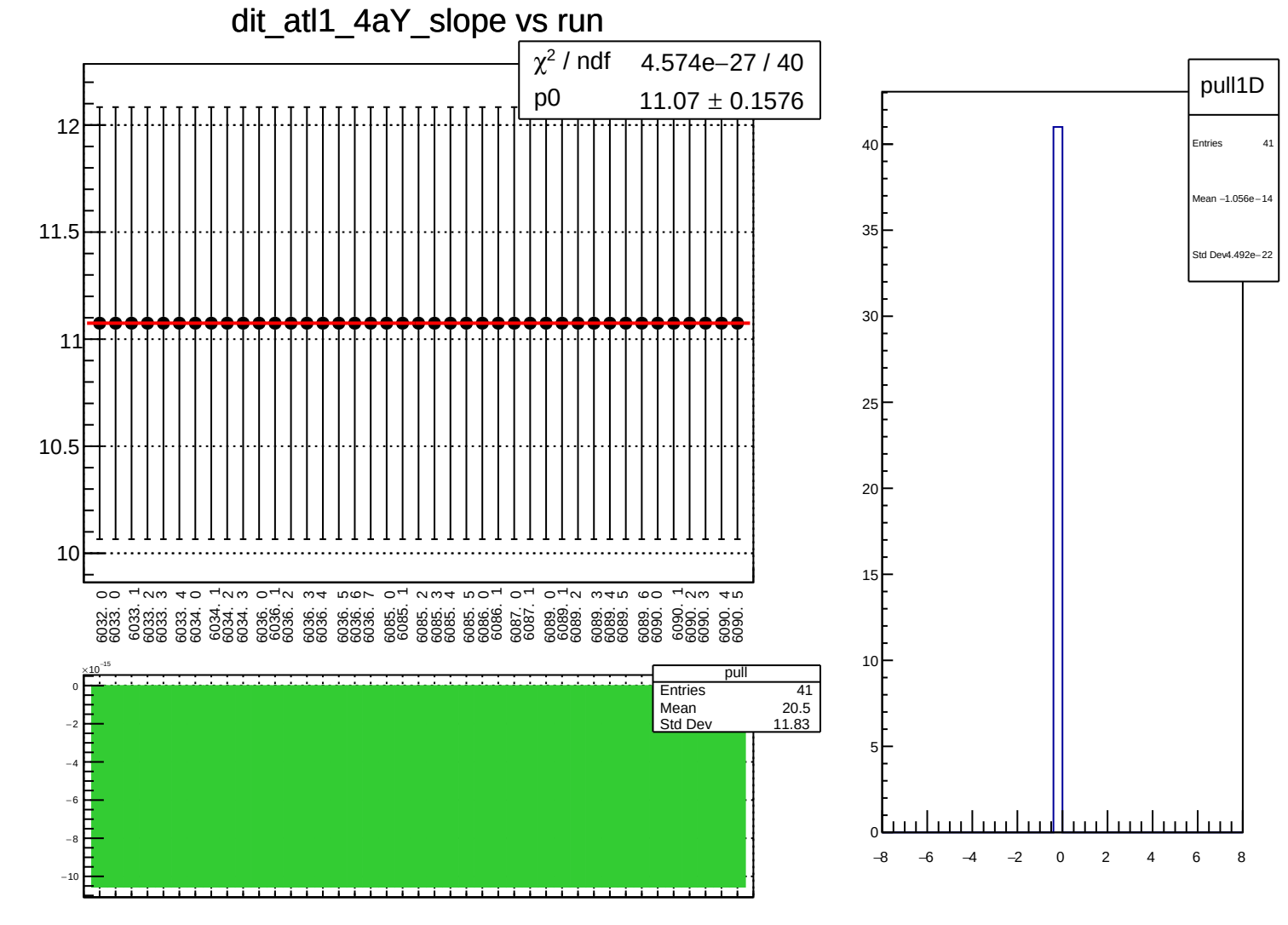

pull1D
Entries 41
Mean −1.037e−14
Std Dev3.348e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

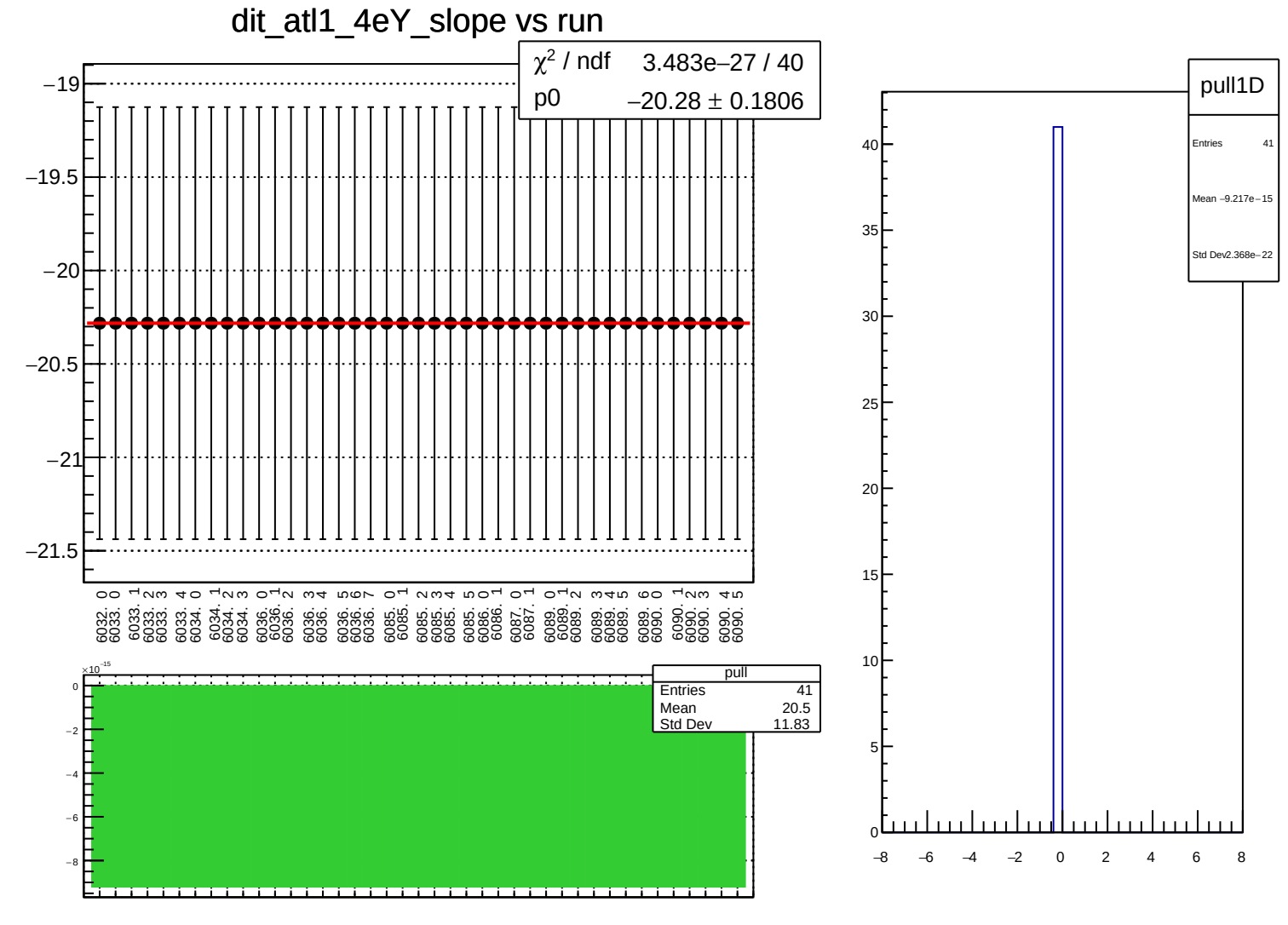

dit_atl1_4aX_slope vs run
χ² / ndf 5.299e−29 / 40
p0 −37.46 ± 0.9761
−30
−32
−34
−36
−38
−40
−42
−44
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
1
0.8
0.6
0.4
0.2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

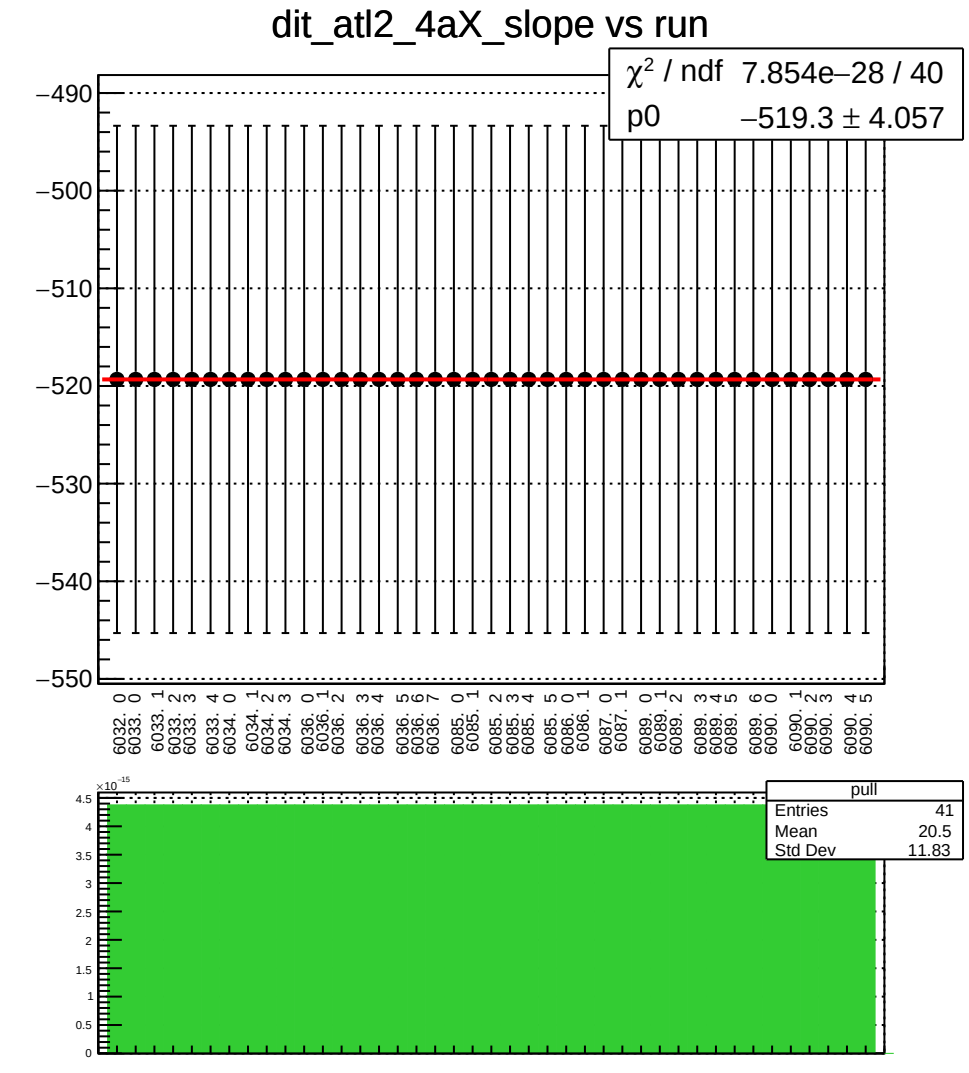

pull1D
Entries 41
Mean 1.137e−15
Std Dev 3.97e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

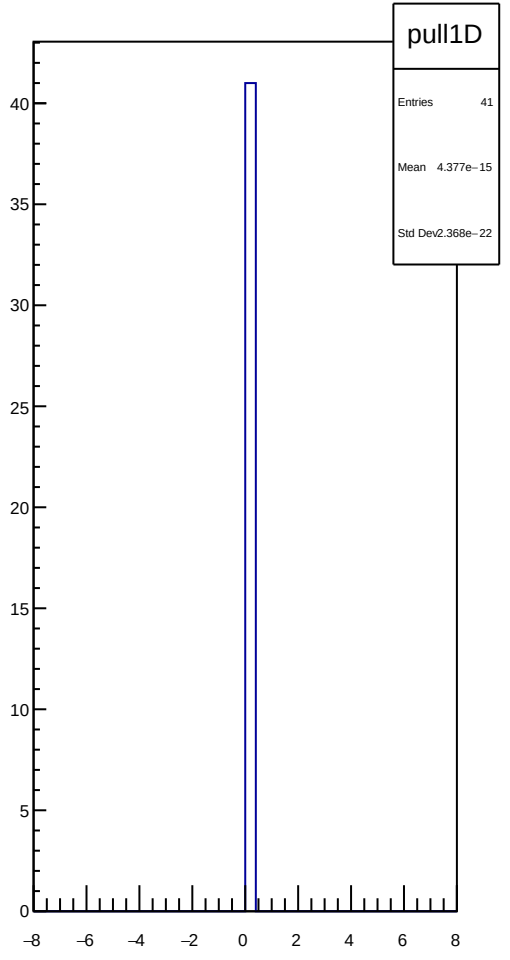

dit_atl1_4eX_slope vs run
χ² / ndf 1.318e−26 / 40
p0 82.69 ± 1.114
90
88
86
84
82
80
78
76
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.793e−14
Std Dev5.187e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

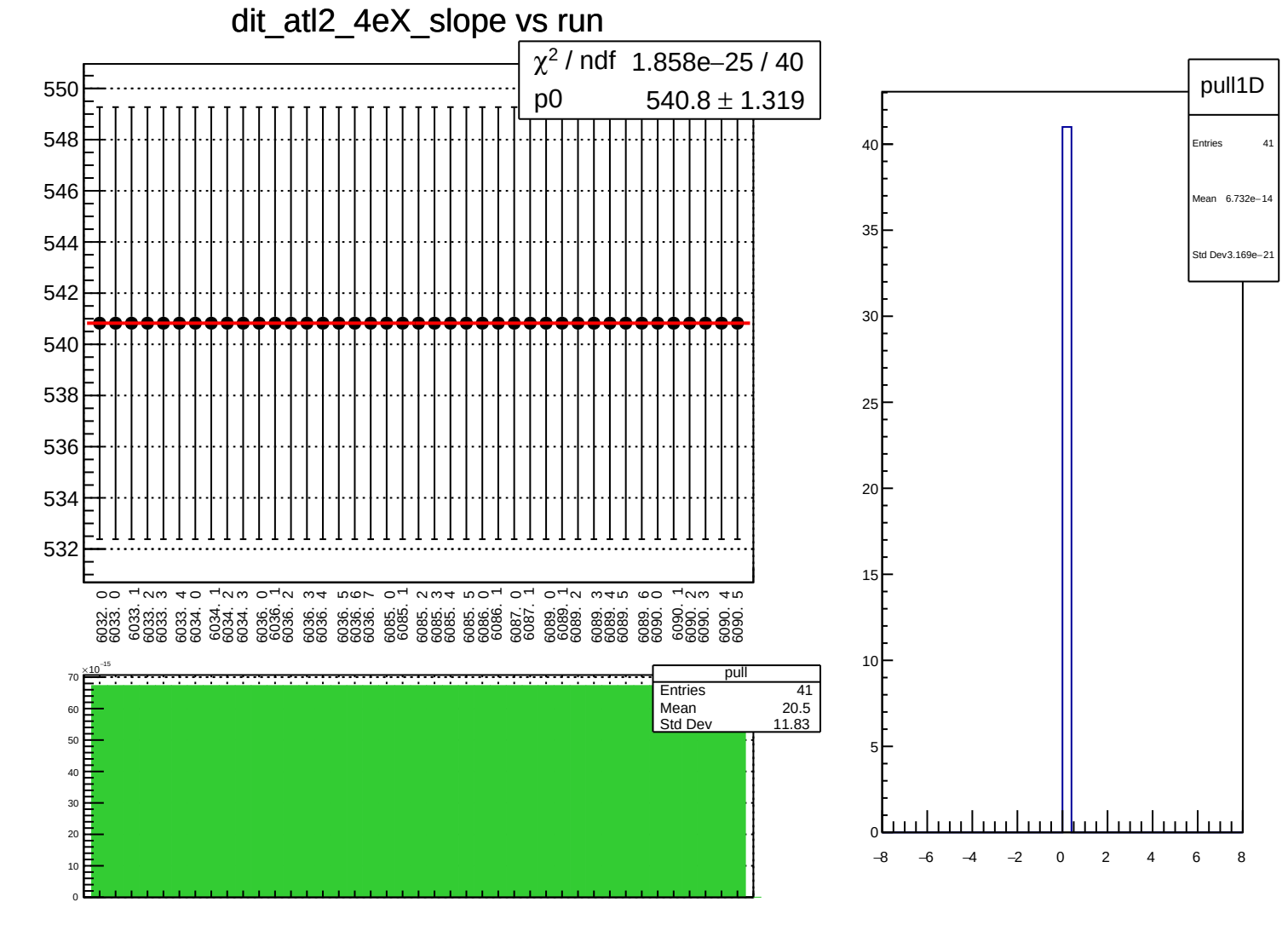

dit_atl1_11X12X_slope vs run
χ² / ndf 3.416e−28 / 40
p0 −15.83 ± 0.2884
−14
−14.5
−15
−15.5
−16
−16.5
−17
−17.5
−18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 2.886e−15
Std Dev9.169e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

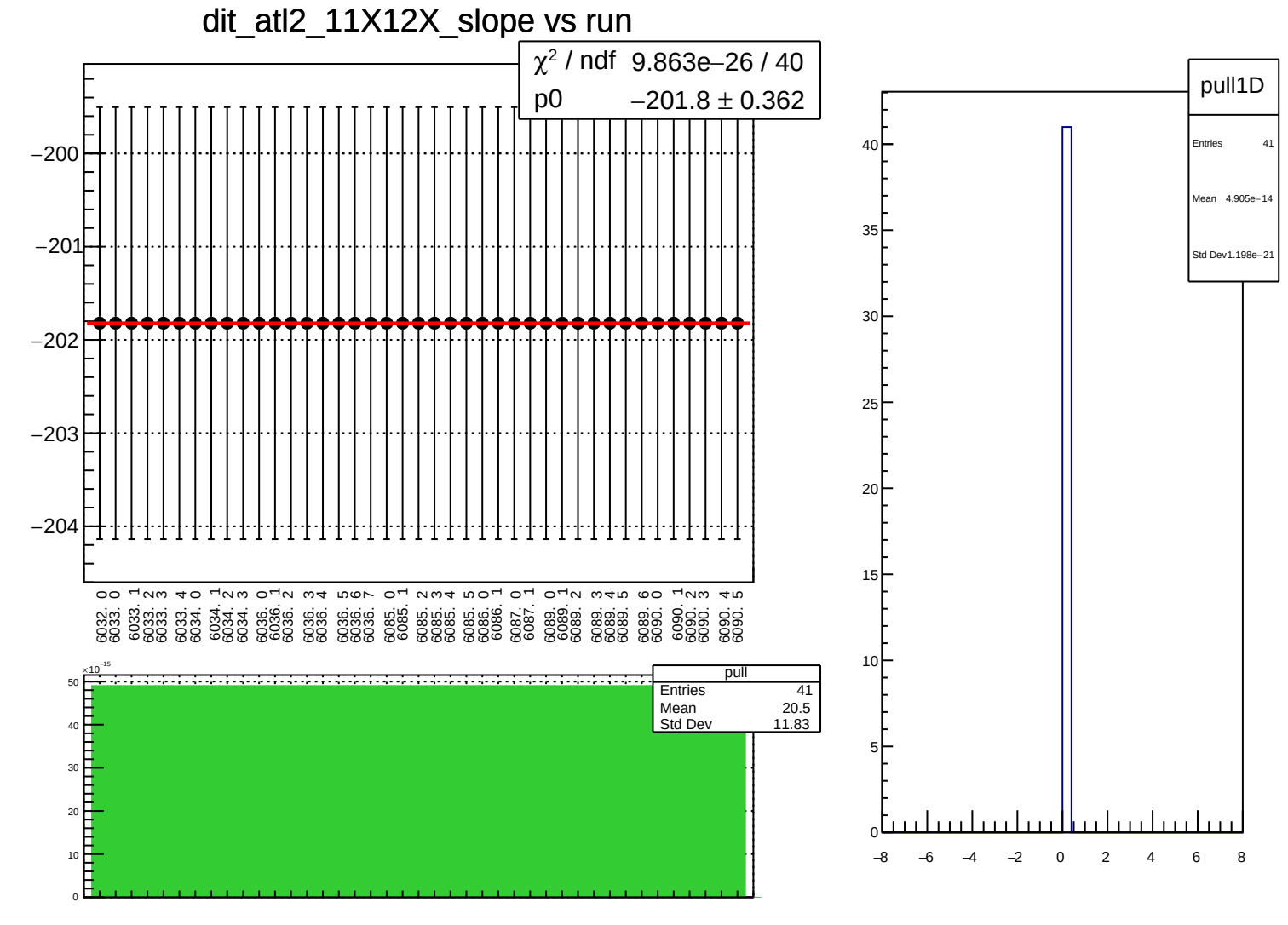

dit_atl1_4aY_slope vs run
χ² / ndf 4.574e−27 / 40
p0 11.07 ± 0.1576
12
11.5
11
10.5
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.056e−14
Std Dev4.492e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

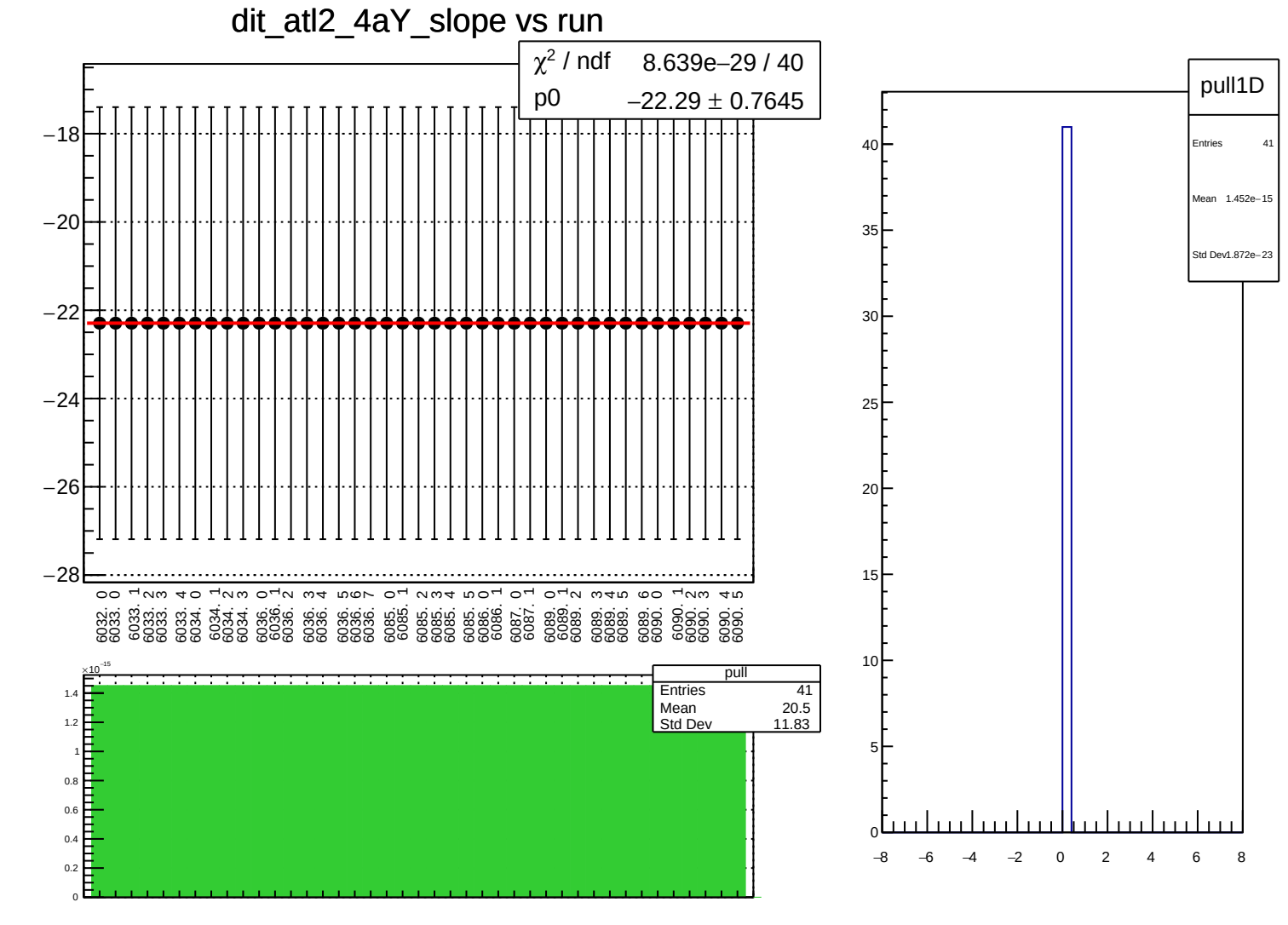

dit_atl1_4eY_slope vs run
χ² / ndf 3.483e−27 / 40
p0 −20.28 ± 0.1806
−19
−19.5
−20
−20.5
−21
−21.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −9.217e−15
Std Dev 2.368e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

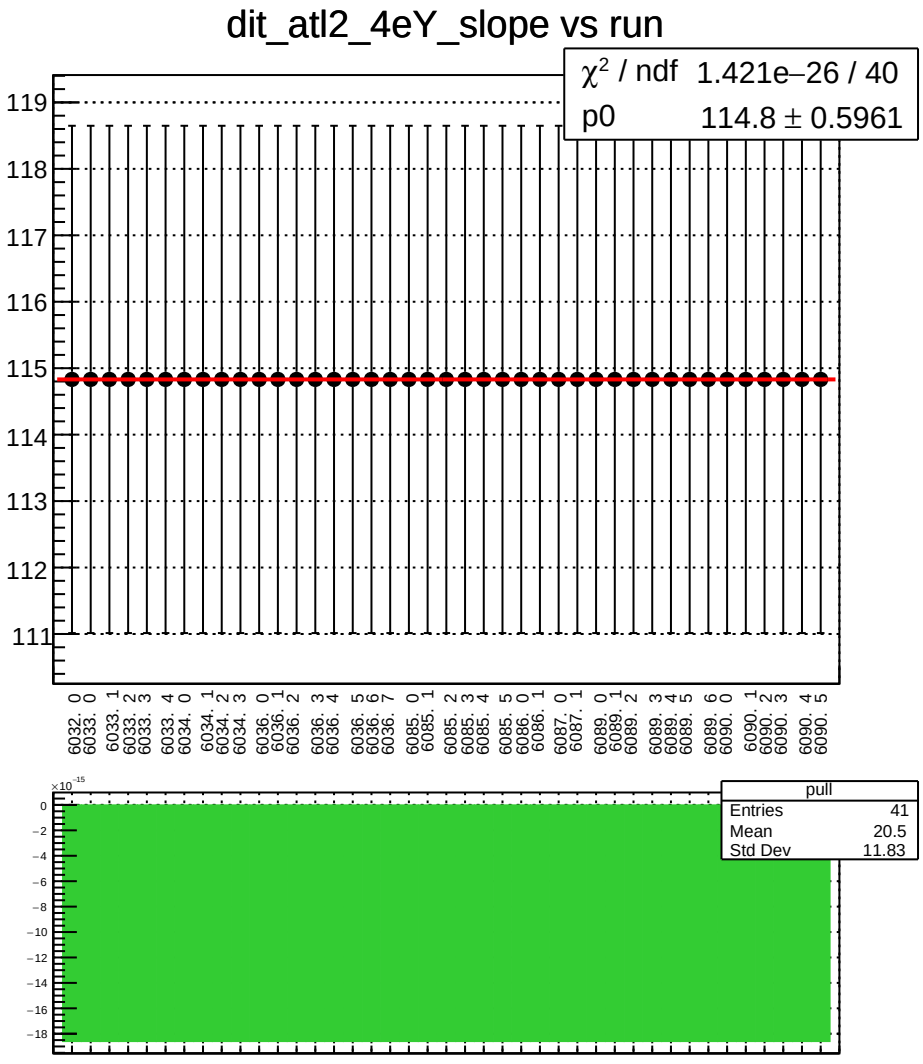

dit_atl2_4aX_slope vs run
χ² / ndf 7.854e−28 / 40
p0 −519.3 ± 4.057
−490
−500
−510
−520
−530
−540
−550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻�15
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

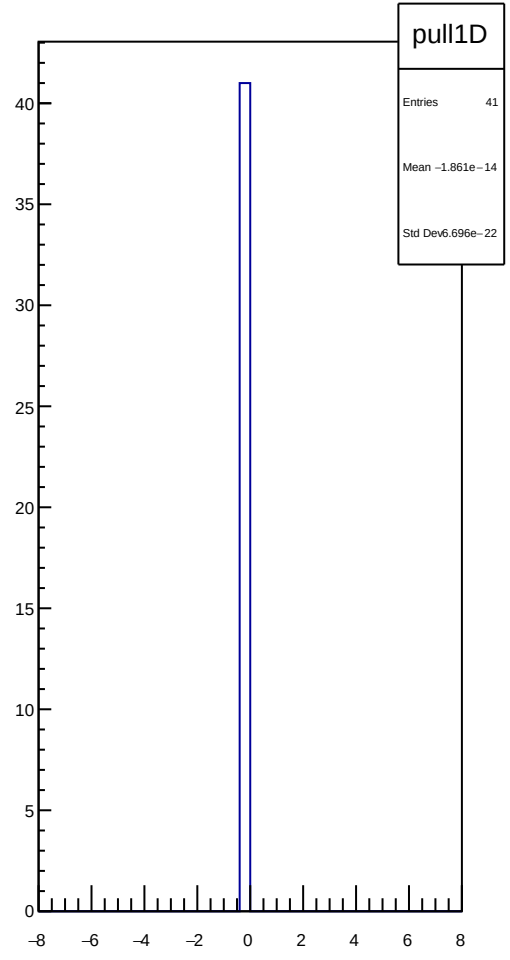

pull1D
Entries 41
Mean 4.377e−15
Std Dev2.368e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

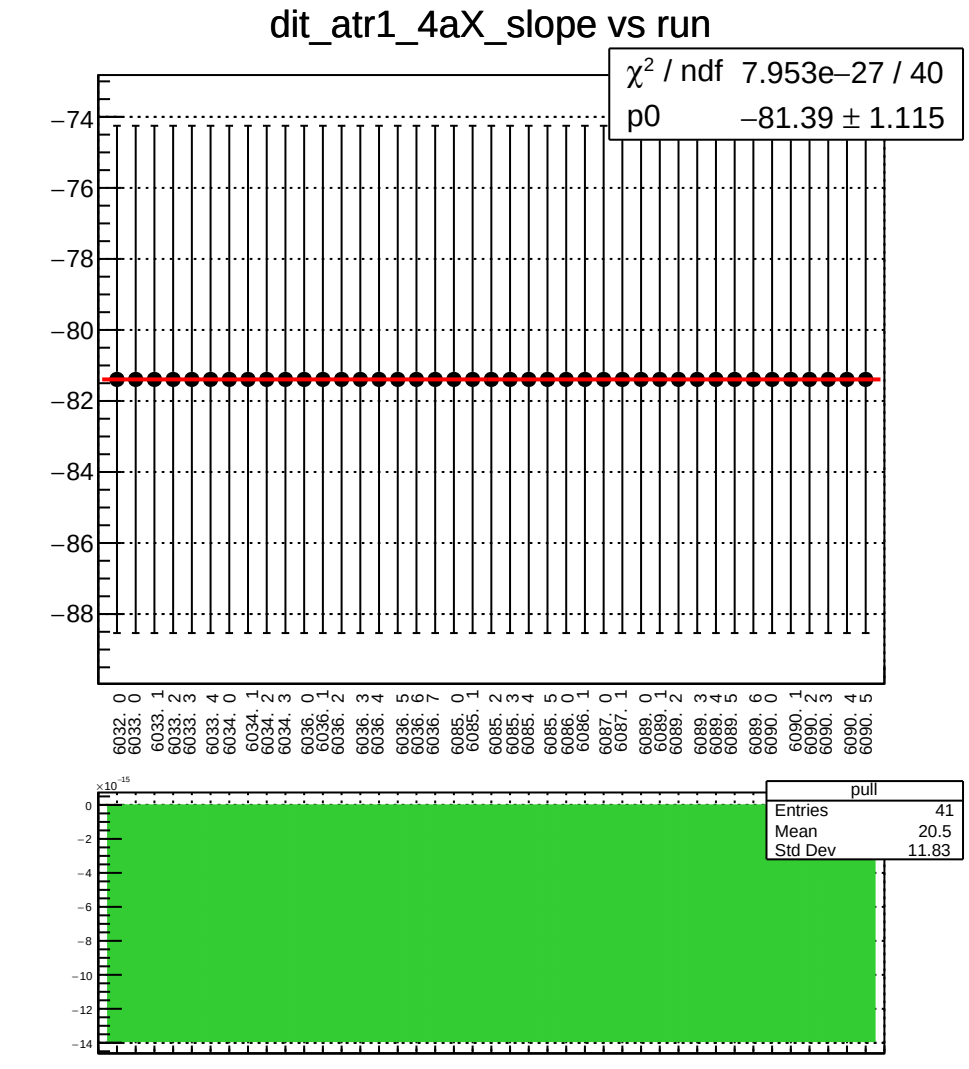

dit_atl2_4eX_slope vs run
χ² / ndf 1.858e−25 / 40
p0 540.8 ± 1.319
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 6.732e−14
Std Dev3.169e−21

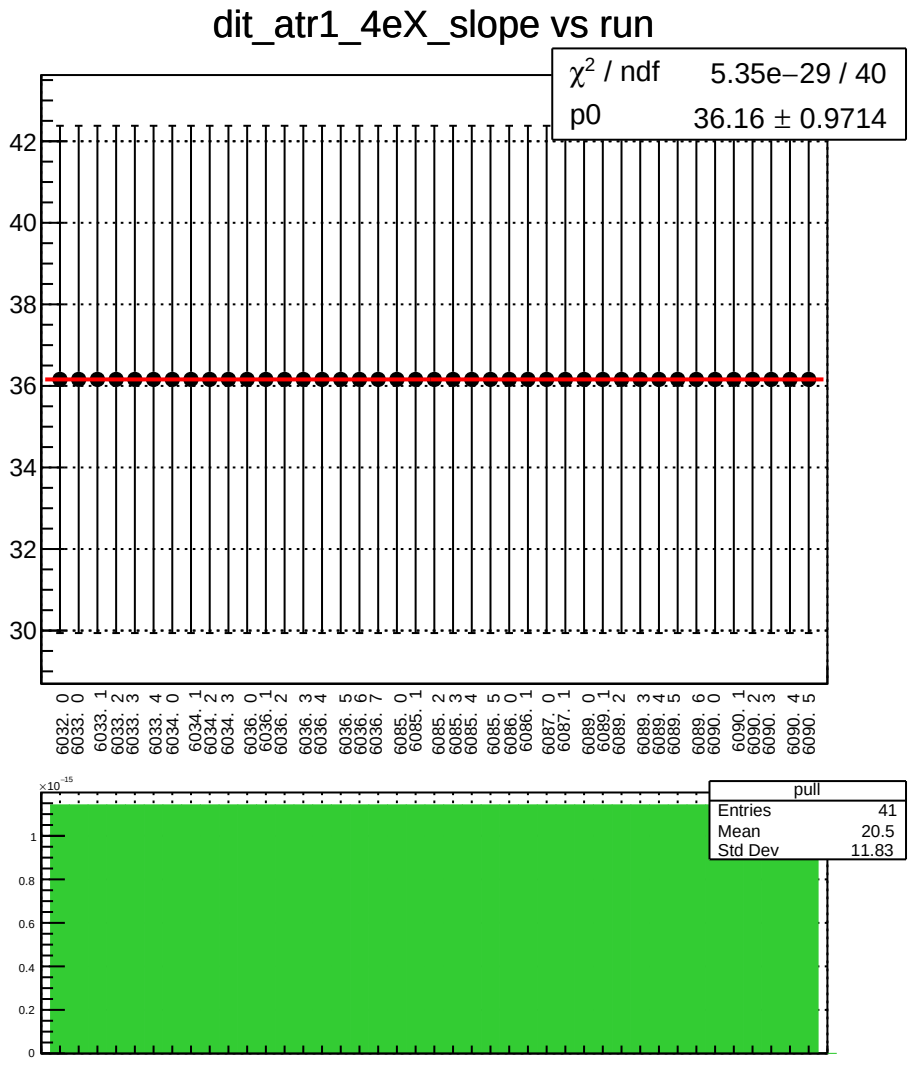

dit_atl2_11X12X_slope vs run
χ² / ndf 9.863e−26 / 40
p0 −201.8 ± 0.362
−200
−201
−202
−203
−204
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 4.905e−14
Std Dev1.198e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

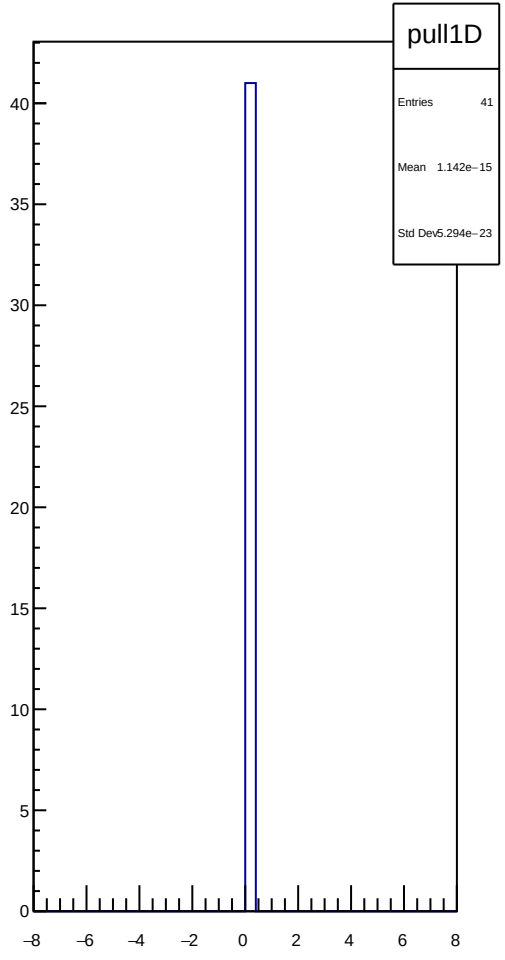

dit_atl2_4aY_slope vs run
χ² / ndf 8.639e−29 / 40
p0 −22.29 ± 0.7645
−18
−20
−22
−24
−26
−28
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 1.452e−15
Std Dev1.872e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

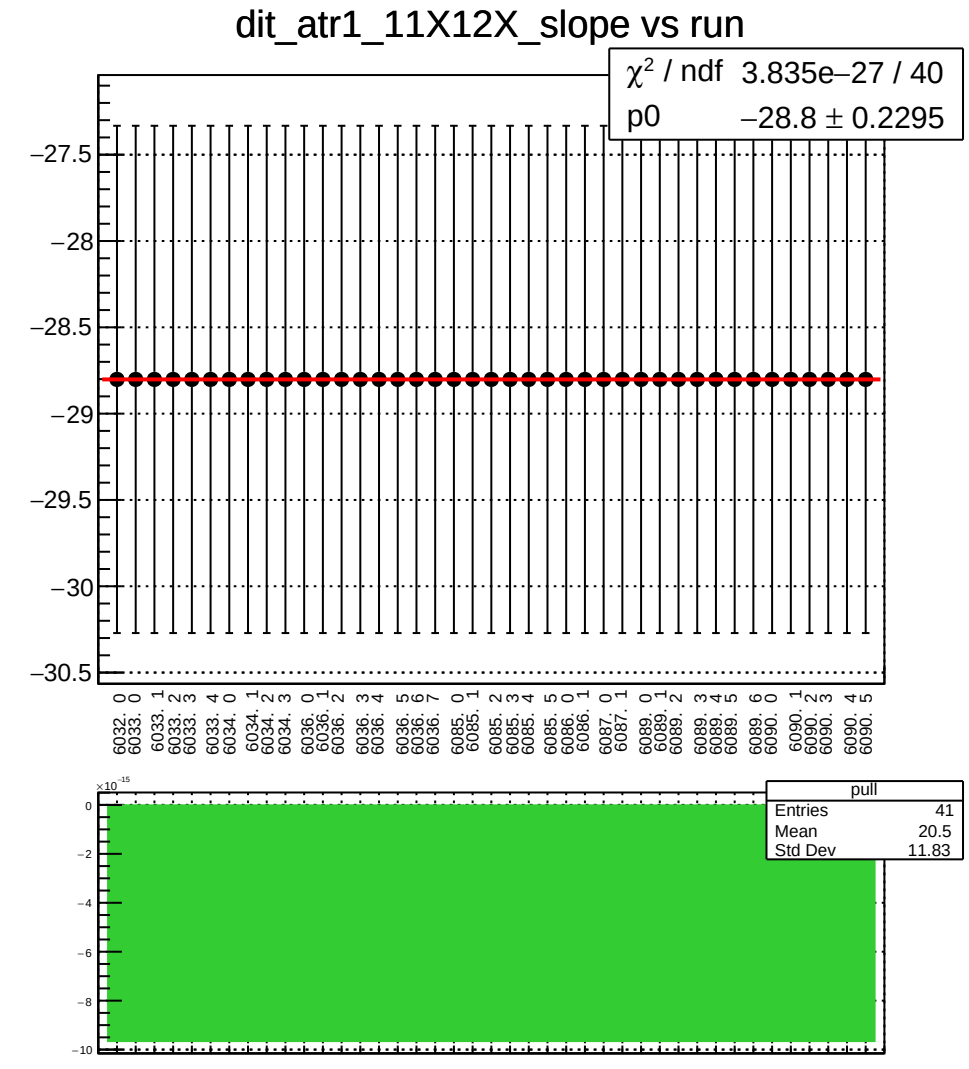

dit_atl2_4eY_slope vs run
χ² / ndf 1.421e−26 / 40
p0 114.8 ± 0.5961
119
118
117
116
115
114
113
112
111
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 41
Mean 20.5
Std Dev 11.83

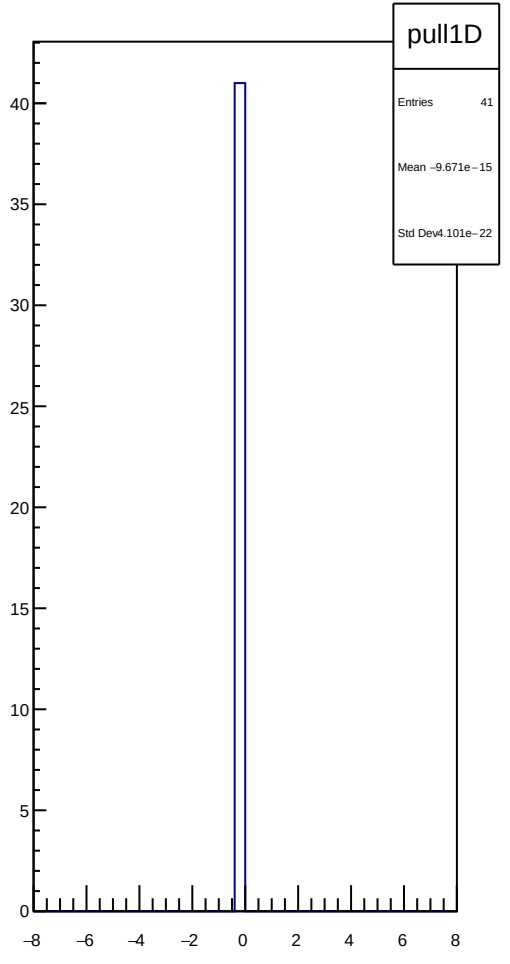

pull1D
Entries 41
Mean −1.861e−14
Std Dev 6.696e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

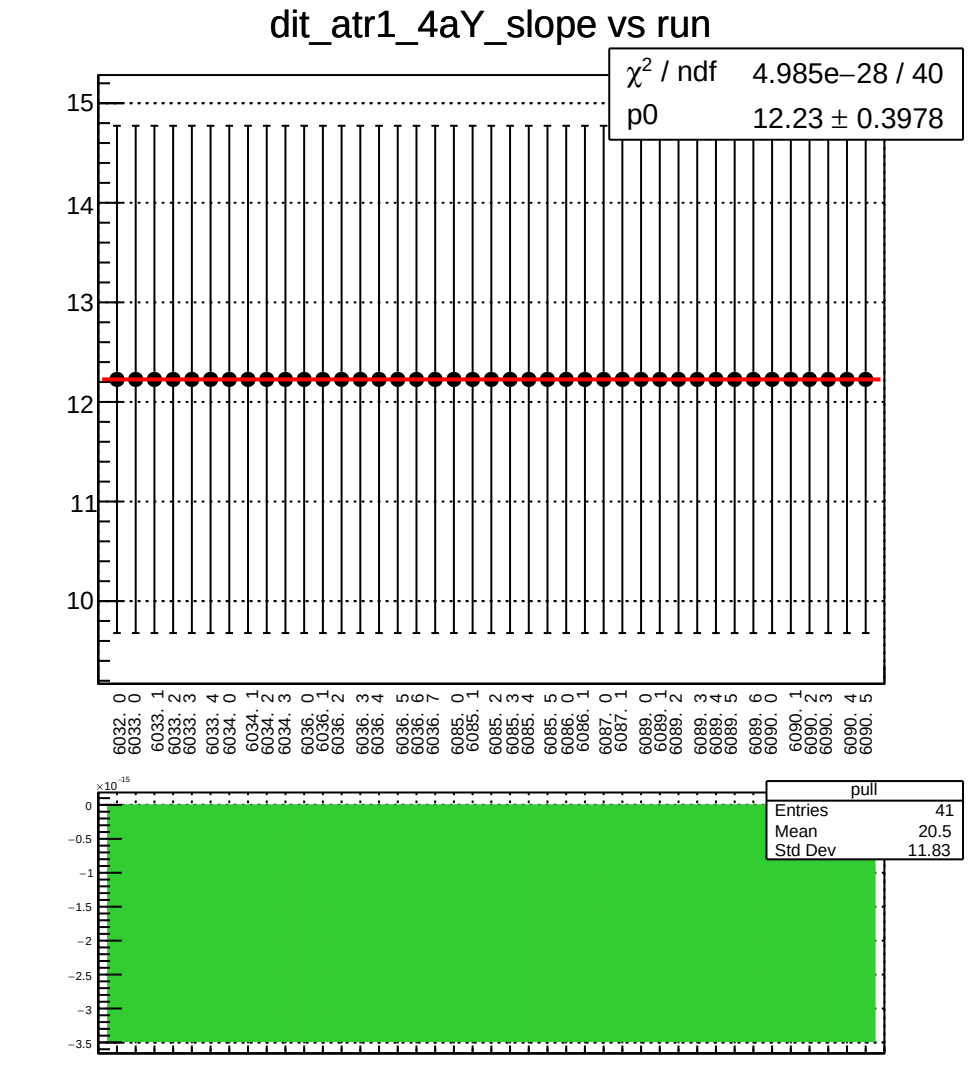

dit_atr1_4aX_slope vs run
χ² / ndf 7.953e−27 / 40
p0 −81.39 ± 1.115
−74
−76
−78
−80
−82
−84
−86
−88
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.393e−14
Std Dev1.497e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

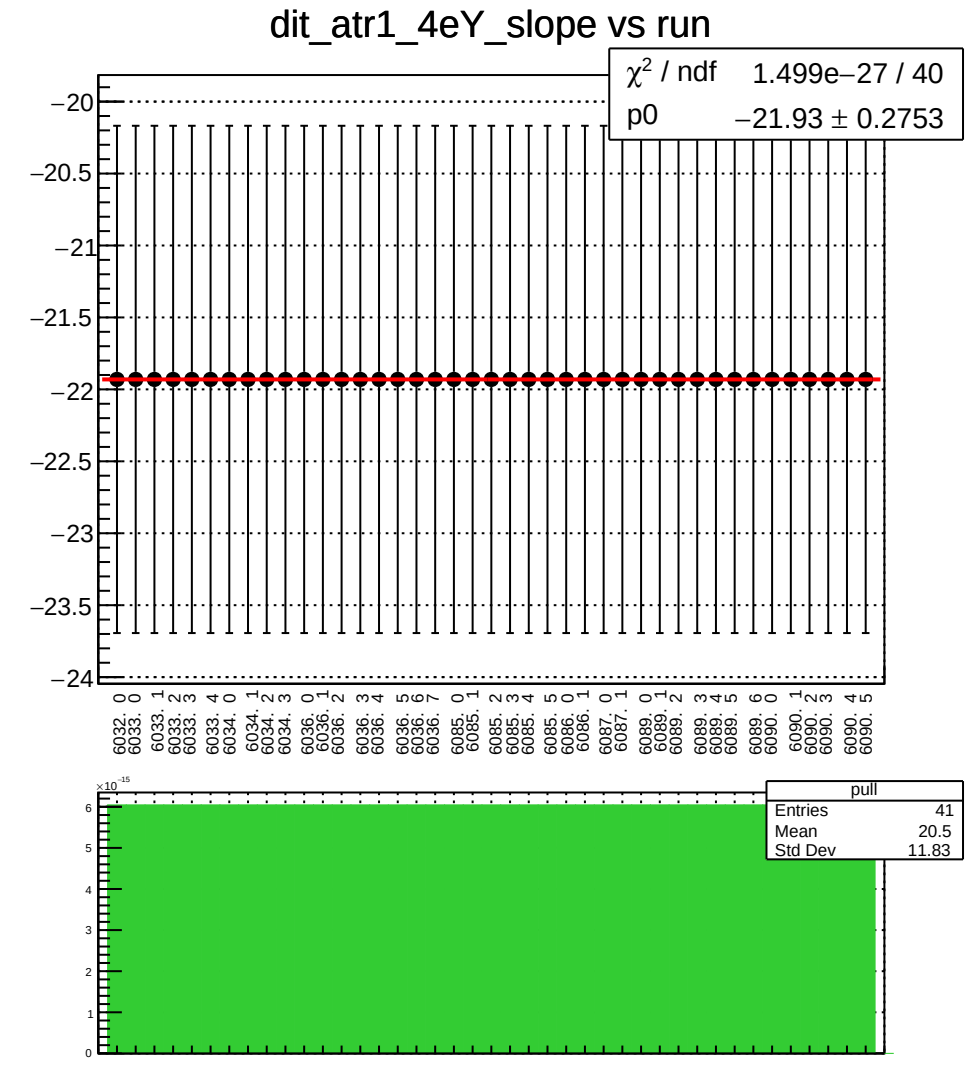

dit_atr1_4eX_slope vs run
χ² / ndf 5.35e−29 / 40
p0 36.16 ± 0.9714
42
40
38
36
34
32
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻�15
1
0.8
0.6
0.4
0.2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

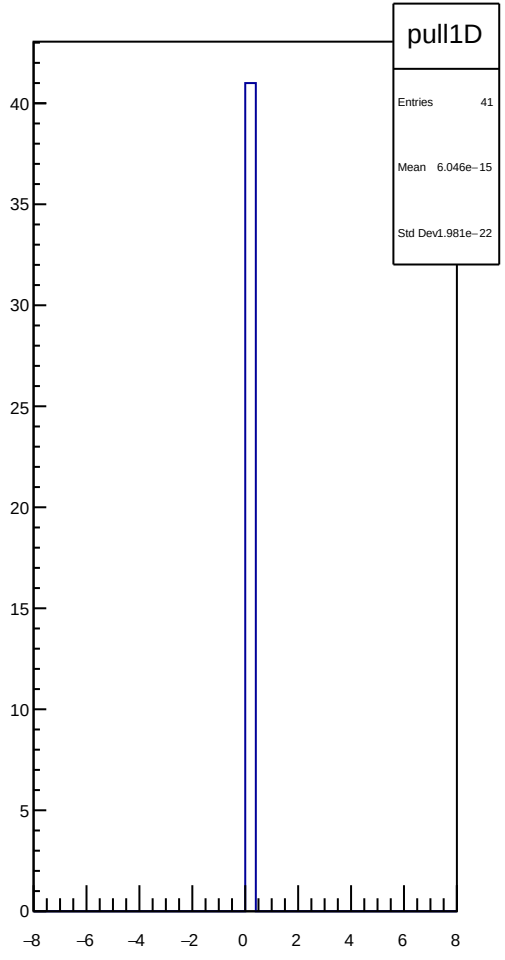

pull1D
Entries 41
Mean 1.142e−15
Std Dev5.294e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

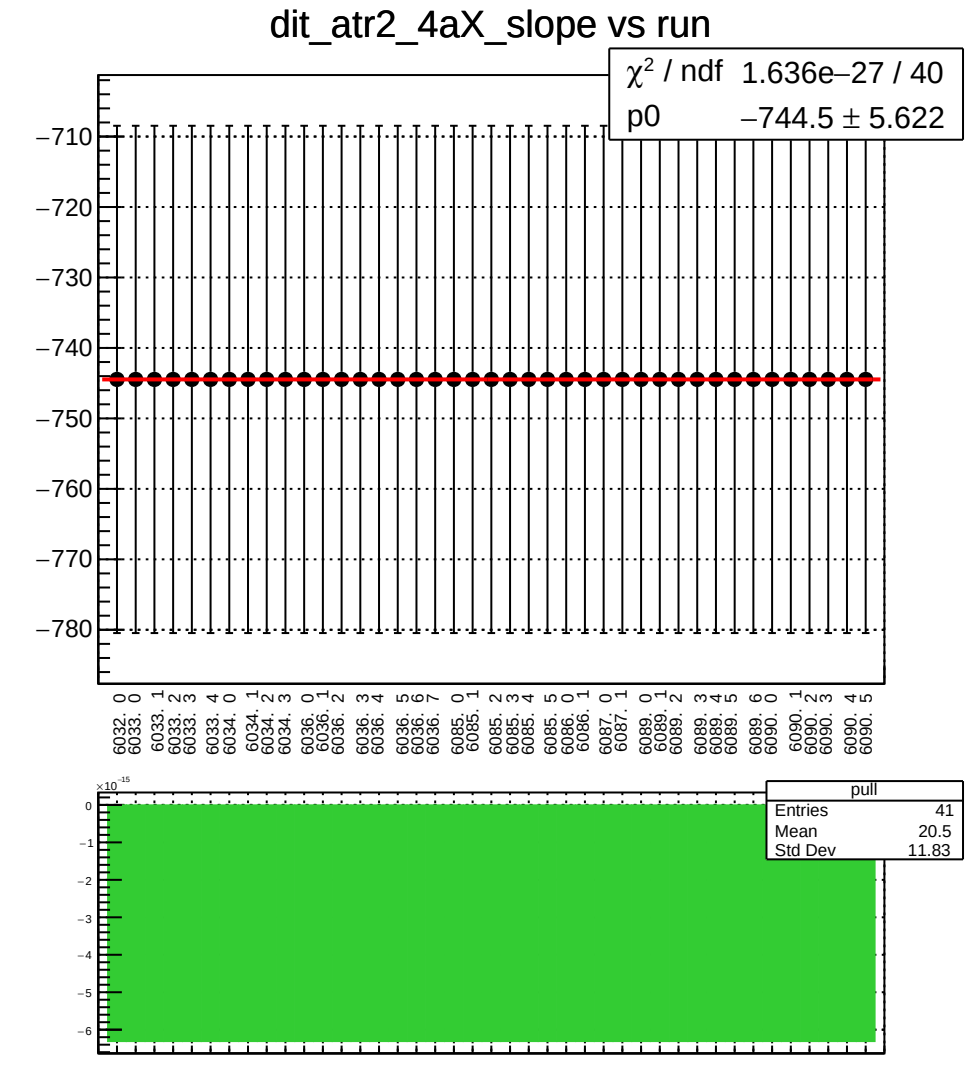

dit_atr1_11X12X_slope vs run
χ² / ndf 3.835e−27 / 40
p0 −28.8 ± 0.2295
−27.5
−28
−28.5
−29
−29.5
−30
−30.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 41
Mean 20.5
Std Dev 11.83

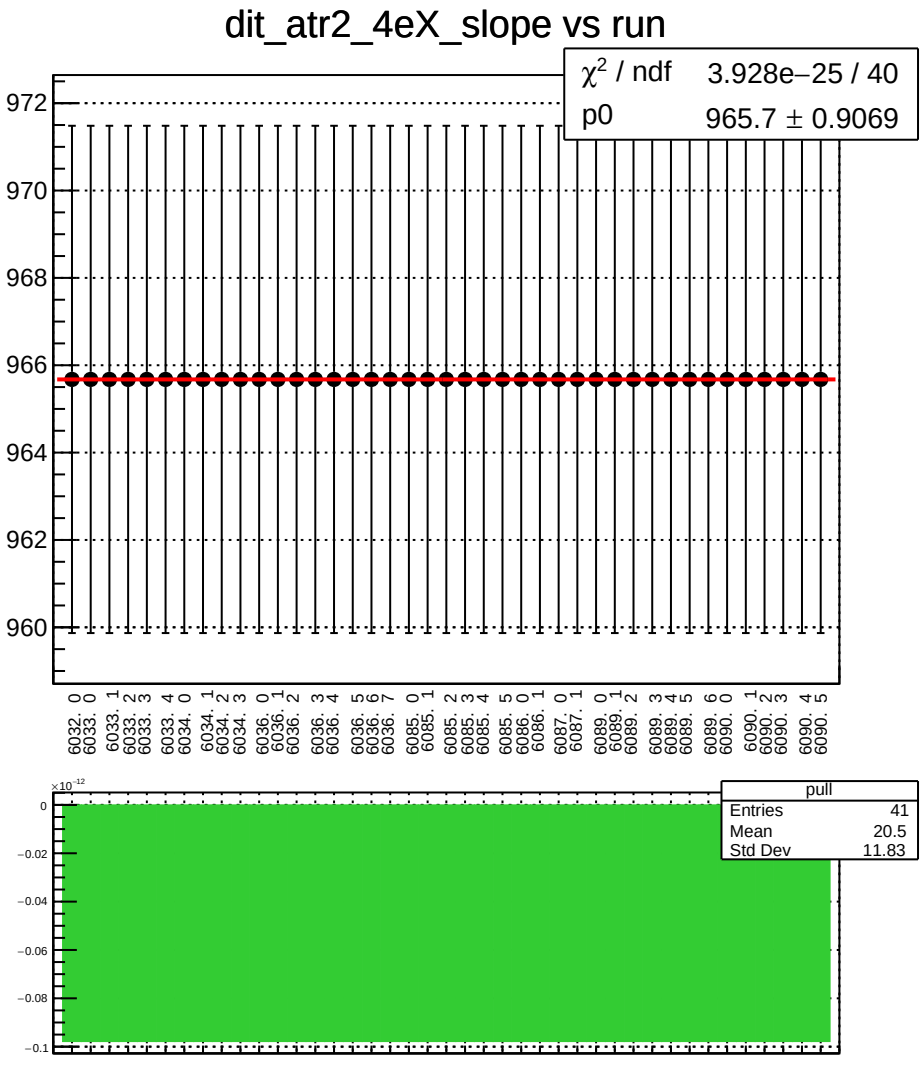

pull1D
Entries 41
Mean −9.671e−15
Std Dev4.101e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

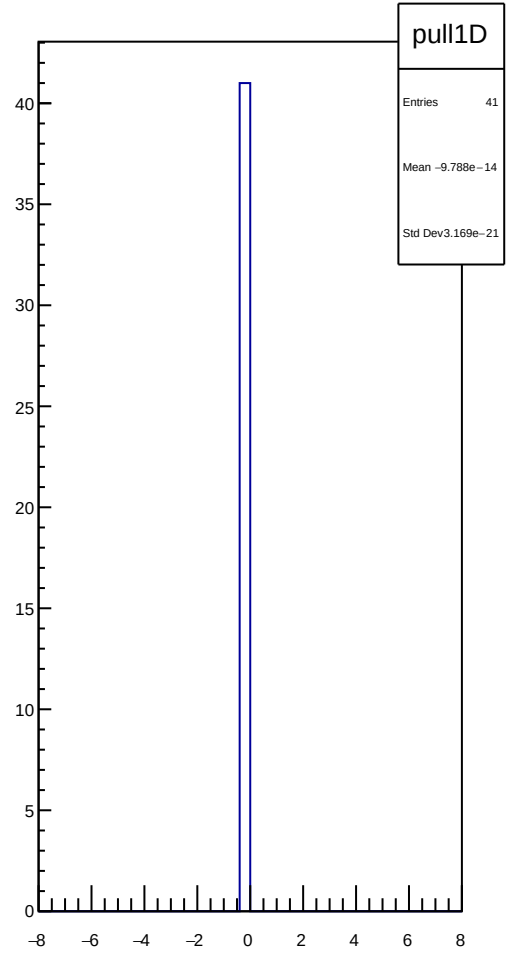

dit_atr1_4aY_slope vs run
χ^2 / ndf 4.985e−28 / 40
p0 12.23 ± 0.3978
15
14
13
12
11
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −3.487e−15
Std Dev7.487e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

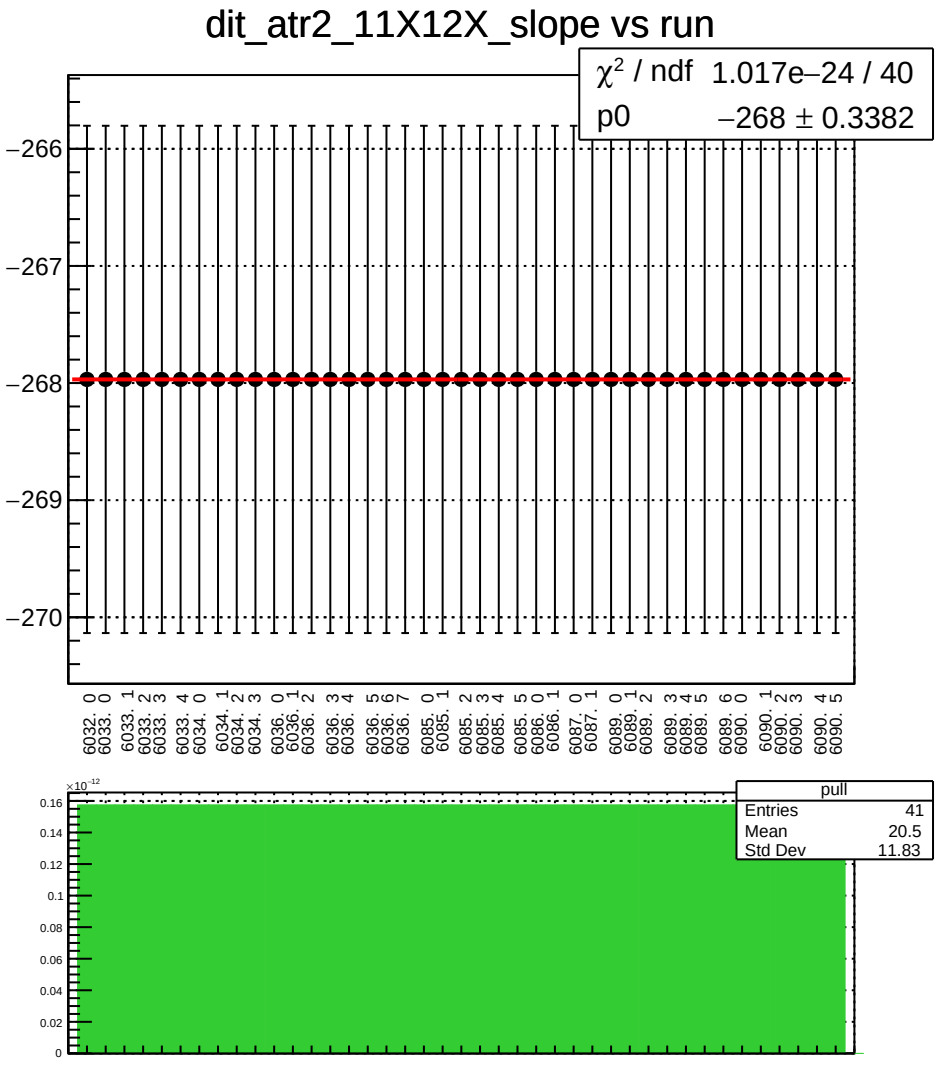

dit_atr1_4eY_slope vs run
χ² / ndf 1.499e−27 / 40
p0 −21.93 ± 0.2753
−20
−20.5
−21
−21.5
−22
−22.5
−23
−23.5
−24
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
6
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

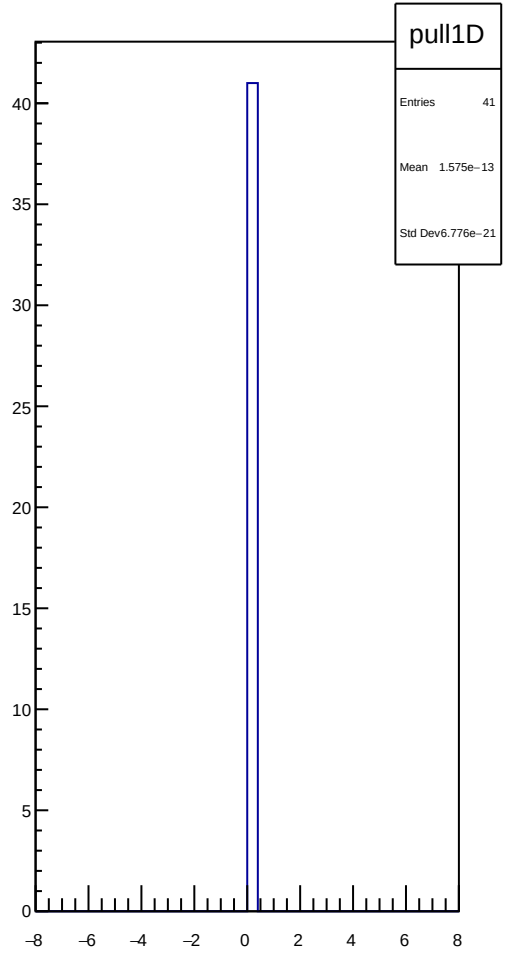

pull1D
Entries 41
Mean 6.046e−15
Std Dev1.981e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

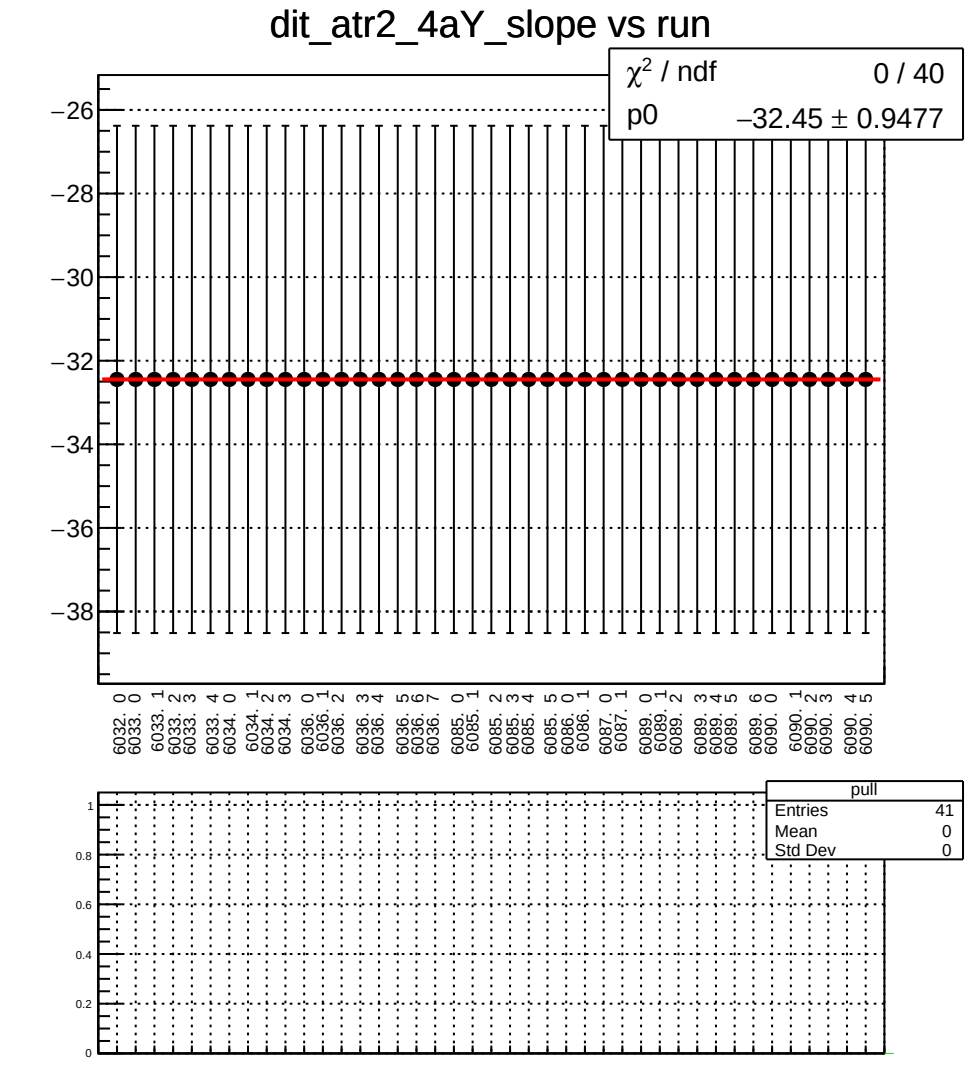

dit_atr2_4aX_slope vs run
χ² / ndf 1.636e−27 / 40
p0 −744.5 ± 5.622
−710
−720
−730
−740
−750
−760
−770
−780
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −6.316e−15
Std Dev 2.699e−22

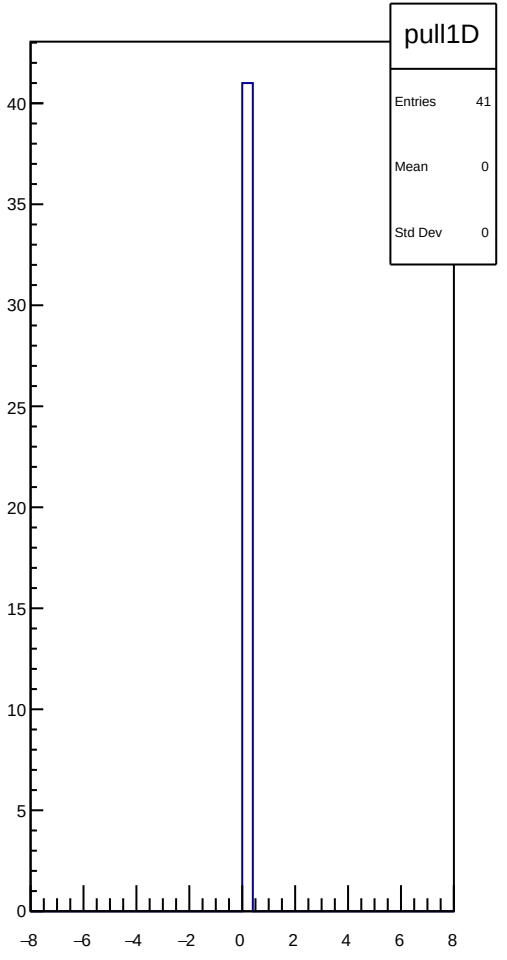

dit_atr2_4eX_slope vs run
χ² / ndf 3.928e−25 / 40
p0 965.7 ± 0.9069
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean −9.788e−14
Std Dev3.169e−21


dit_atr2_11X12X_slope vs run
χ² / ndf 1.017e−24 / 40
p0 −268 ± 0.3382
−266
−267
−268
−269
−270
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean 1.575e−13
Std Dev6.776e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_4aY_slope vs run
χ² / ndf 0 / 40
p0 −32.45 ± 0.9477
−26
−28
−30
−32
−34
−36
−38
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
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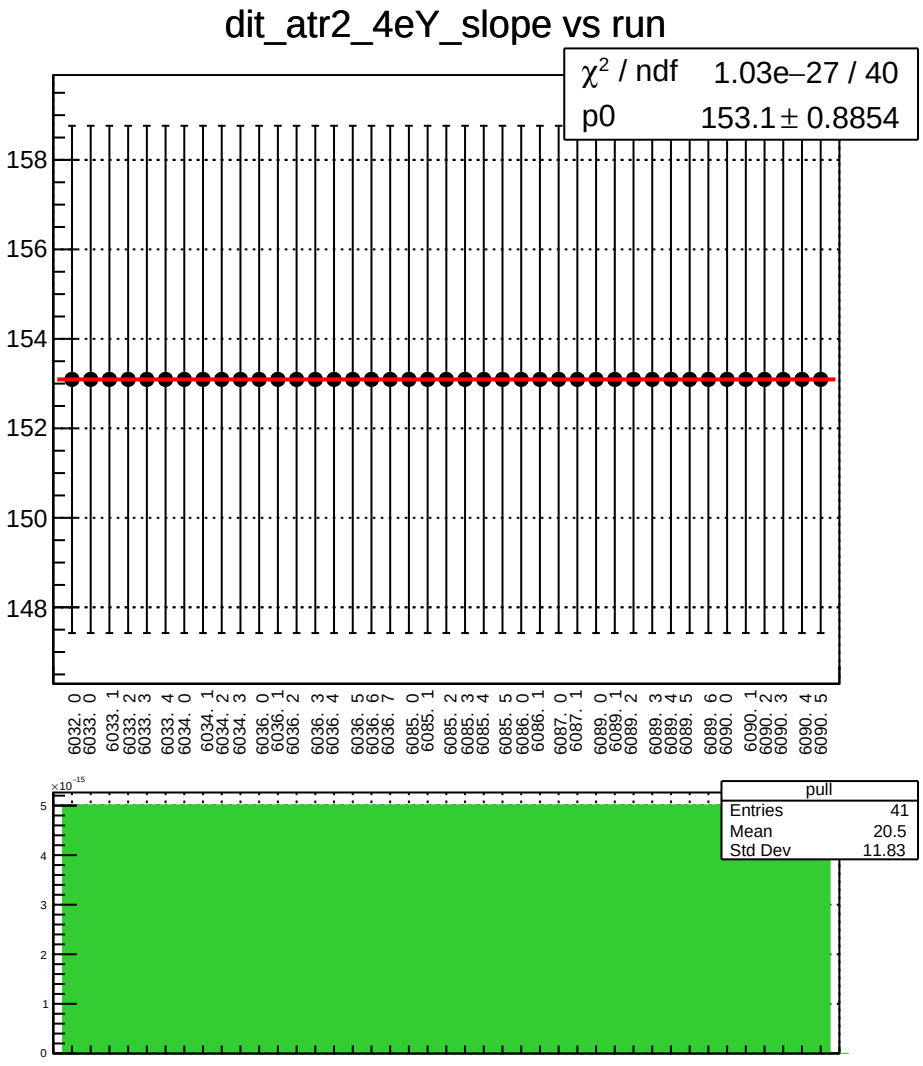
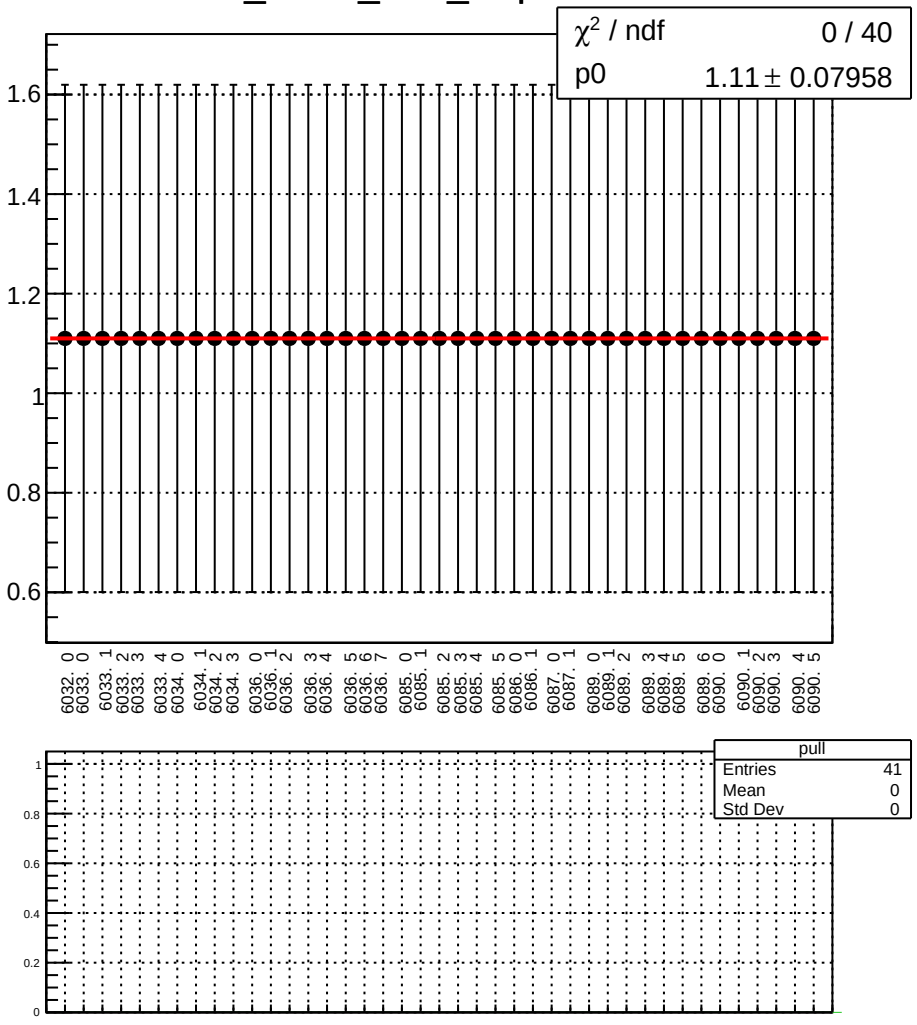
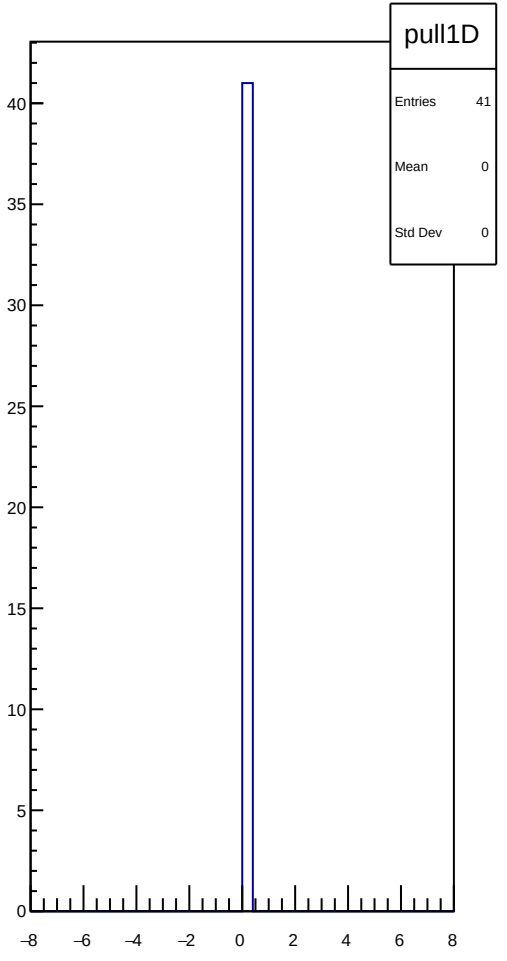
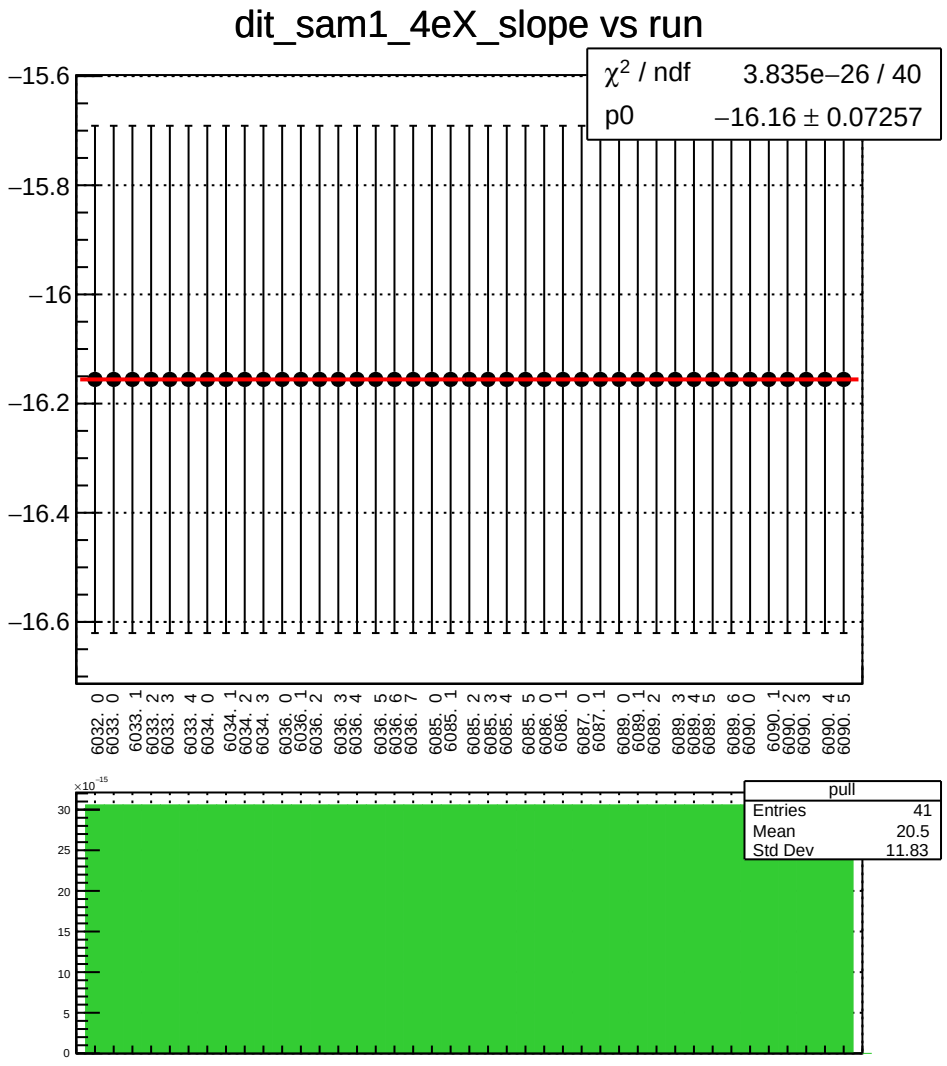
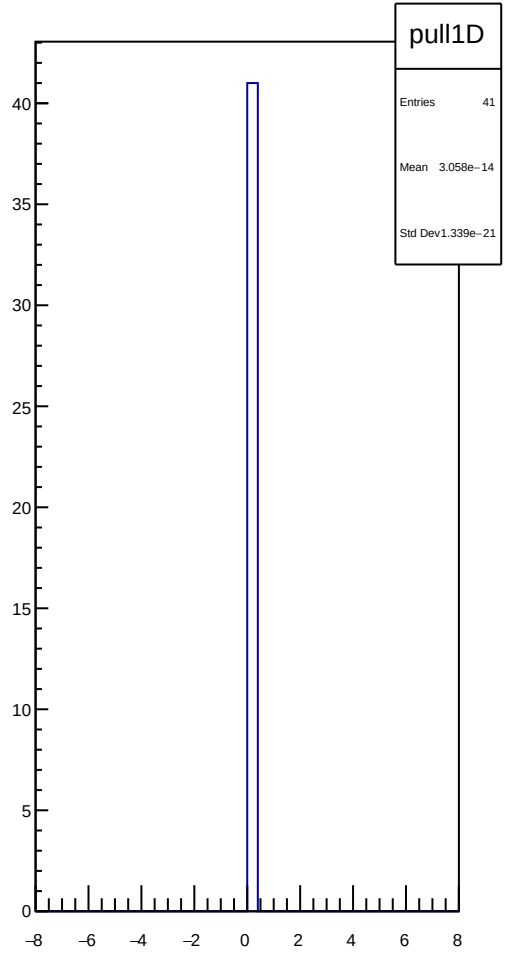
0
2
4
6
8

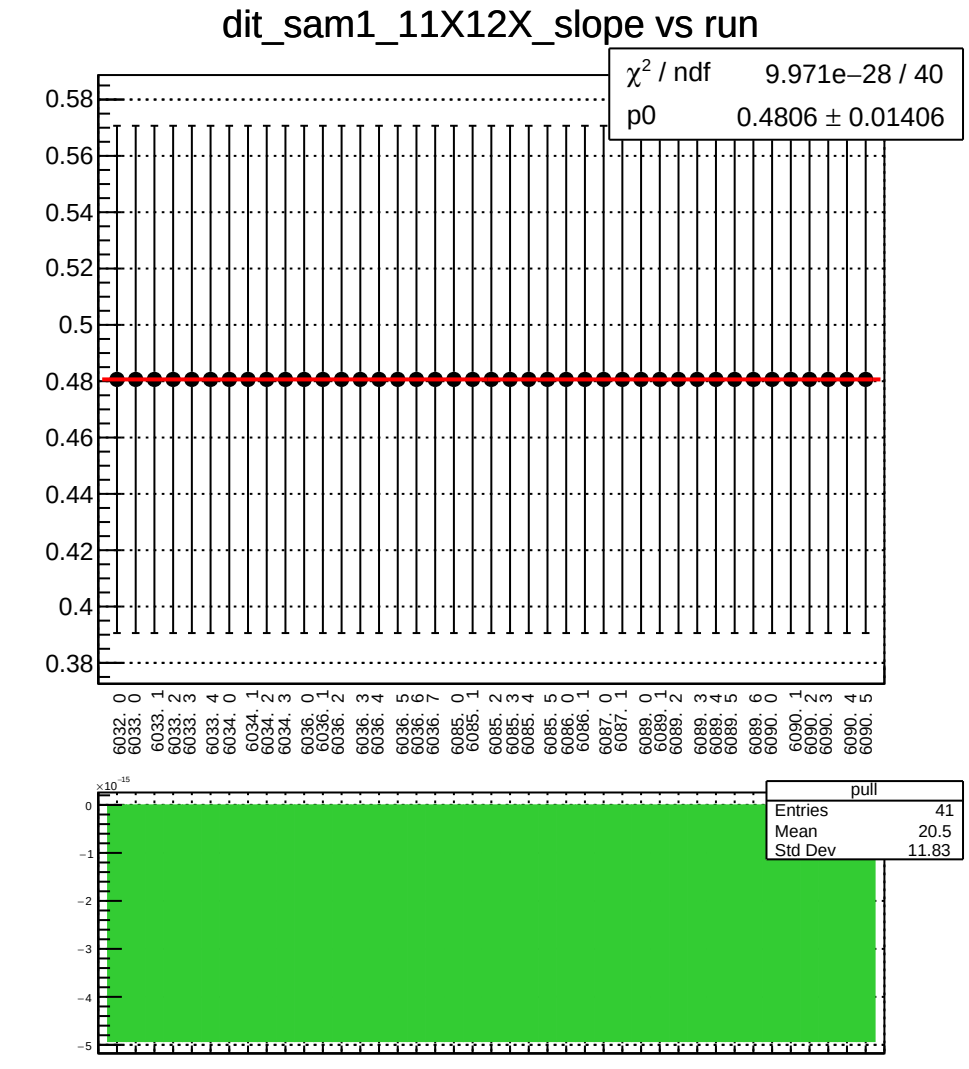

dit_atr2_4eY_slope vs run
χ² / ndf 1.03e−27 / 40
p0 153.1 ± 0.8854
158
156
154
152
150
148
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 5.013e−15
Std Dev 2.183e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

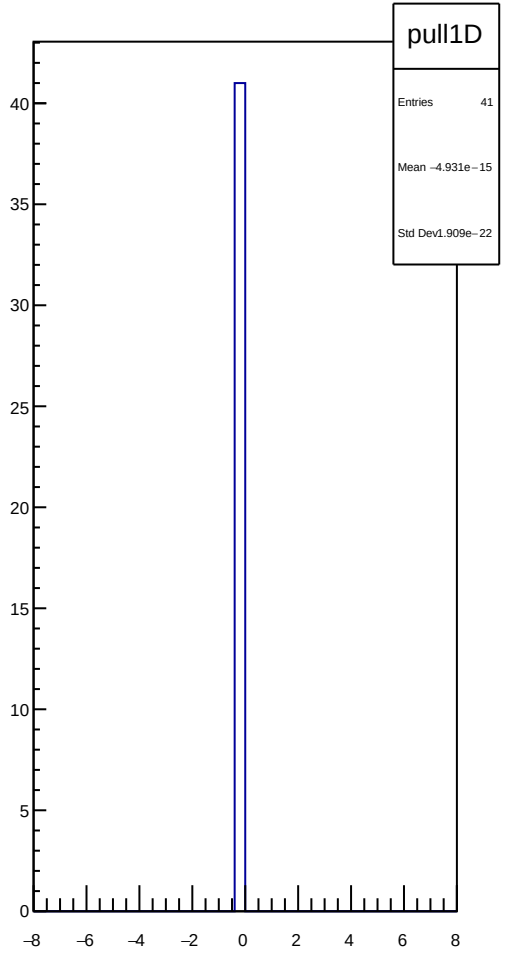

dit_sam1_4aX_slope vs run
χ² / ndf 0 / 40
p0 1.11 ± 0.07958
1.6
1.4
1.2
1
0.8
0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

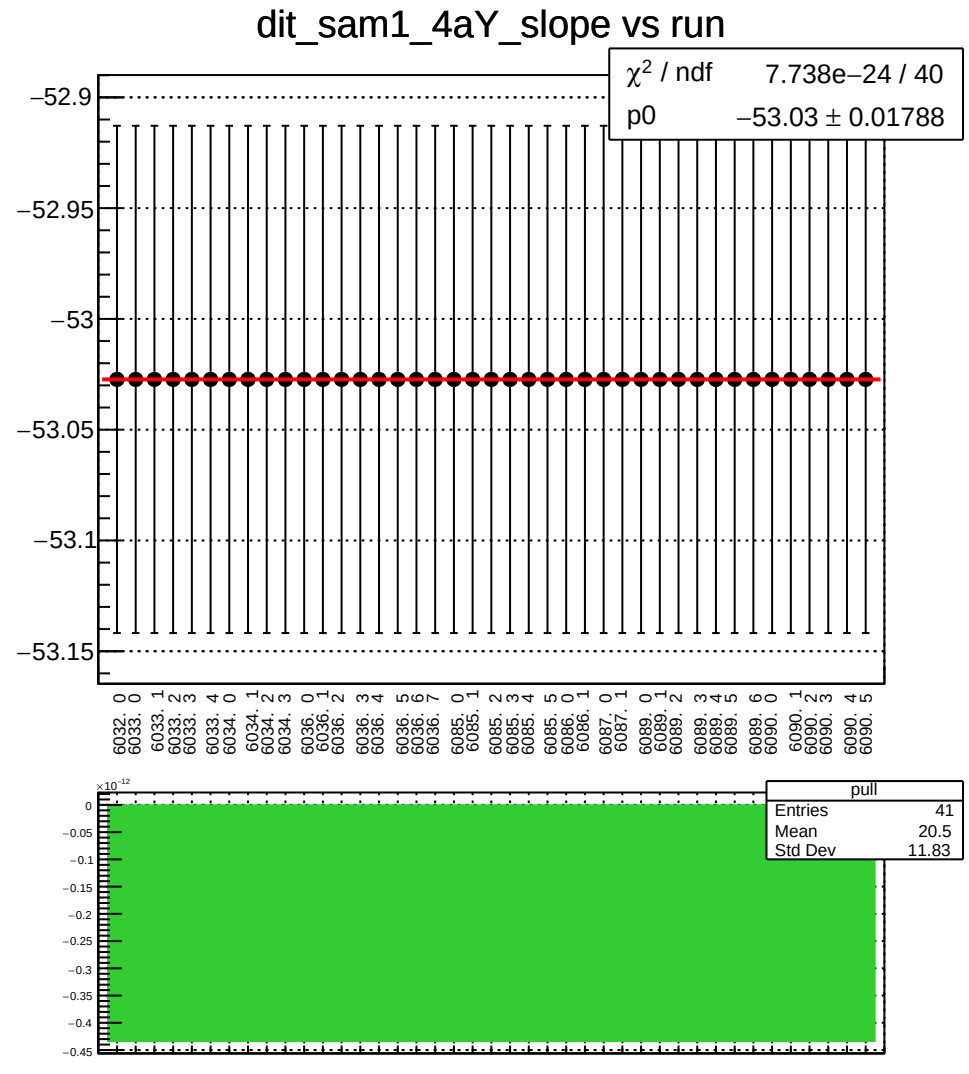

pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

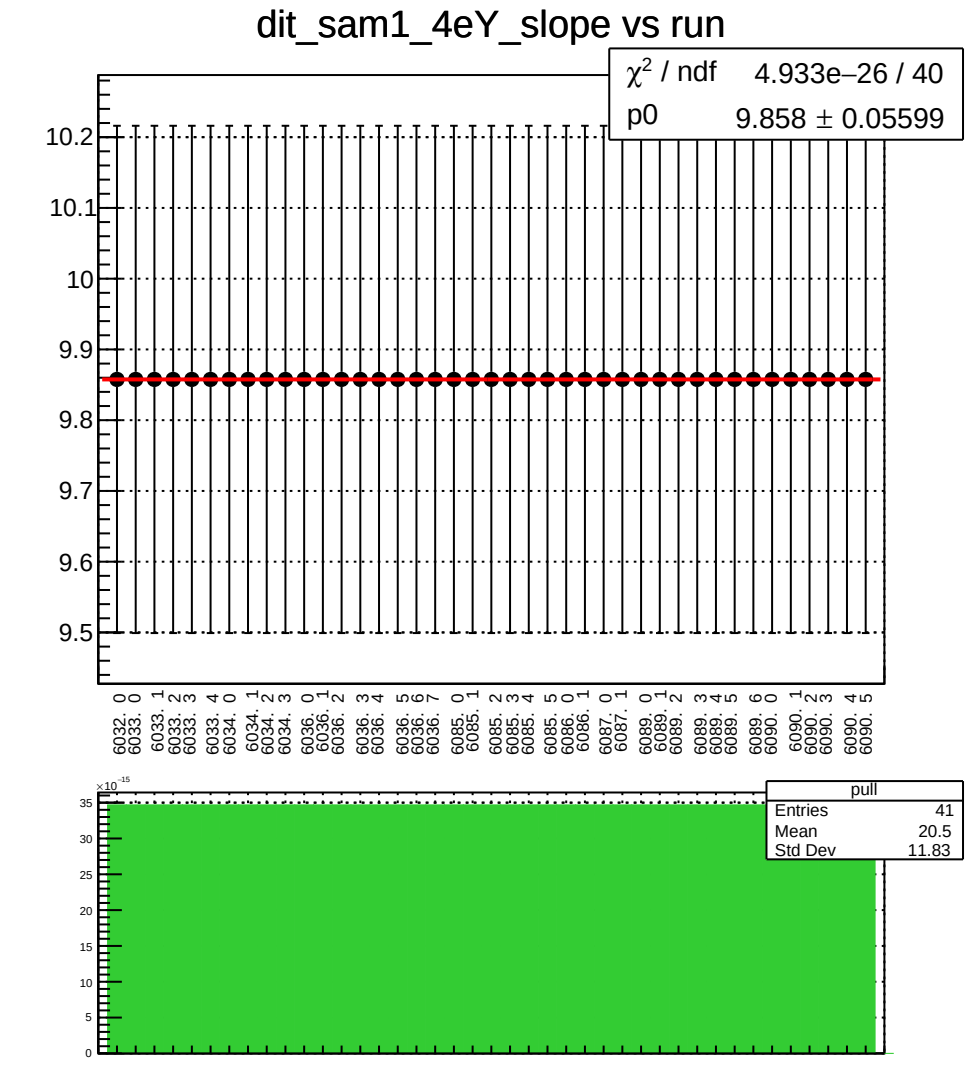

dit_sam1_4eX_slope vs run
χ² / ndf 3.835e−26 / 40
p0 −16.16 ± 0.07257
−15.6
−15.8
−16
−16.2
−16.4
−16.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 20.5
Std Dev 11.83
×10⁻¹⁵
30
25
20
15
10
5
0

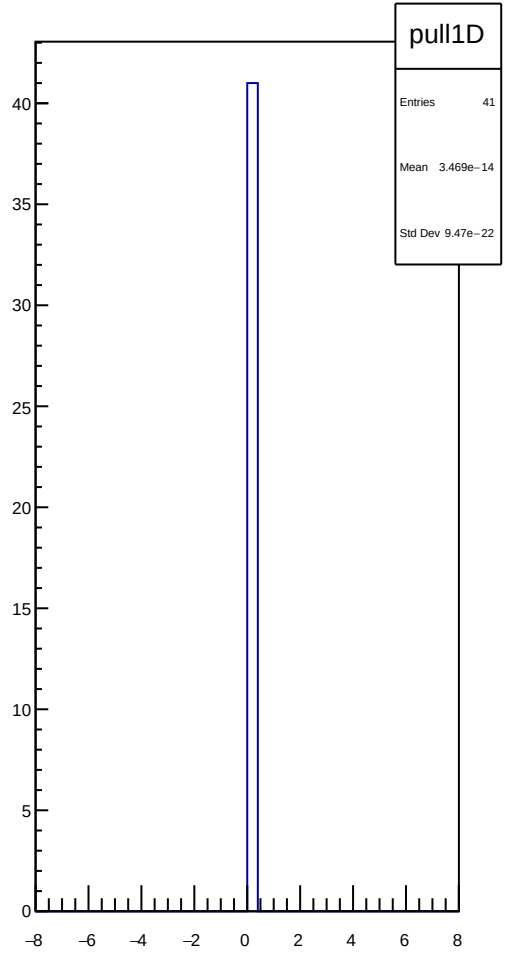

pull1D
Entries 41
Mean 3.058e−14
Std Dev1.339e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

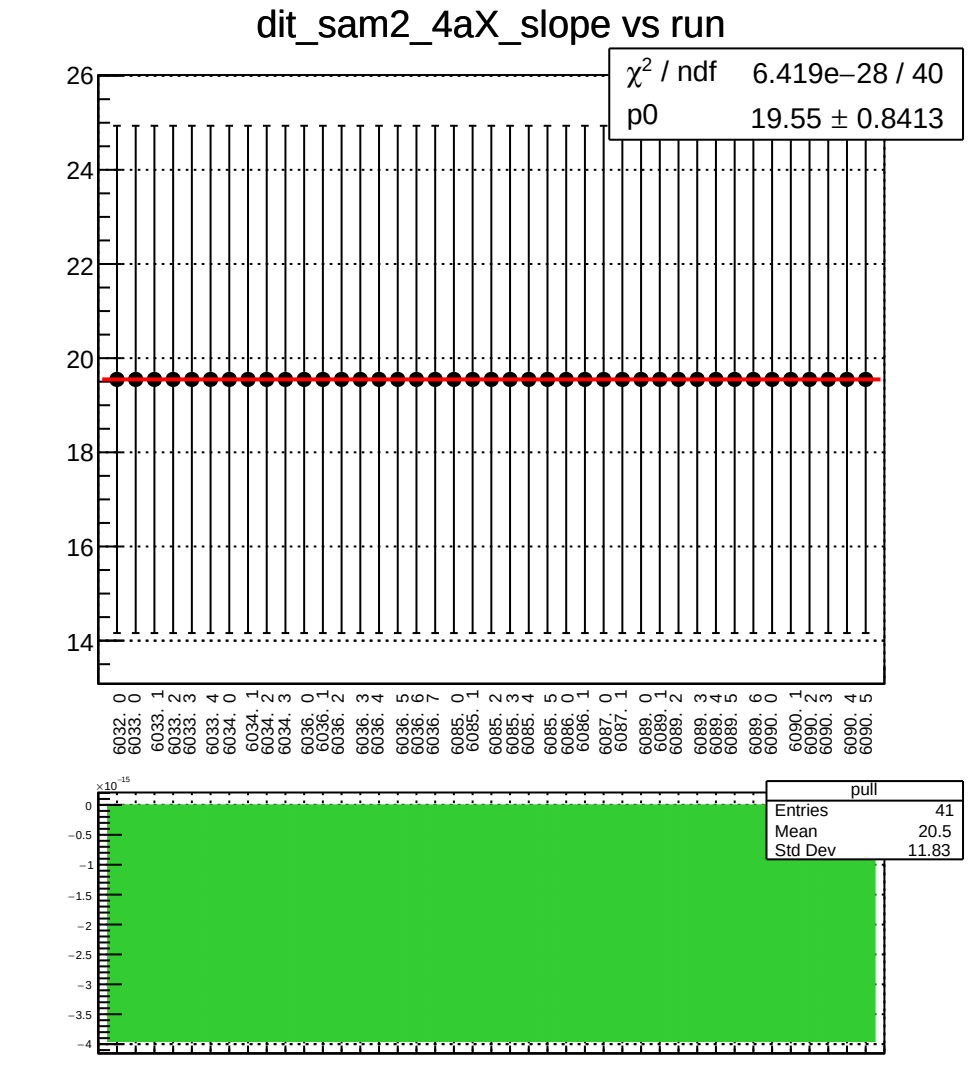

dit_sam1_11X12X_slope vs run
χ² / ndf 9.971e−28 / 40
p0 0.4806 ± 0.01406
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 41
Mean 20.5
Std Dev 11.83

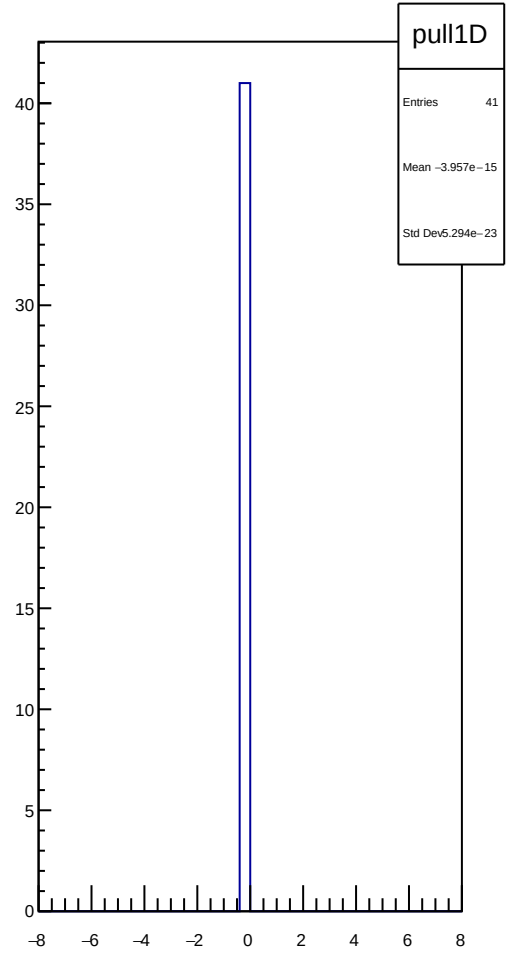

pull1D
Entries 41
Mean −4.931e−15
Std Dev1.909e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

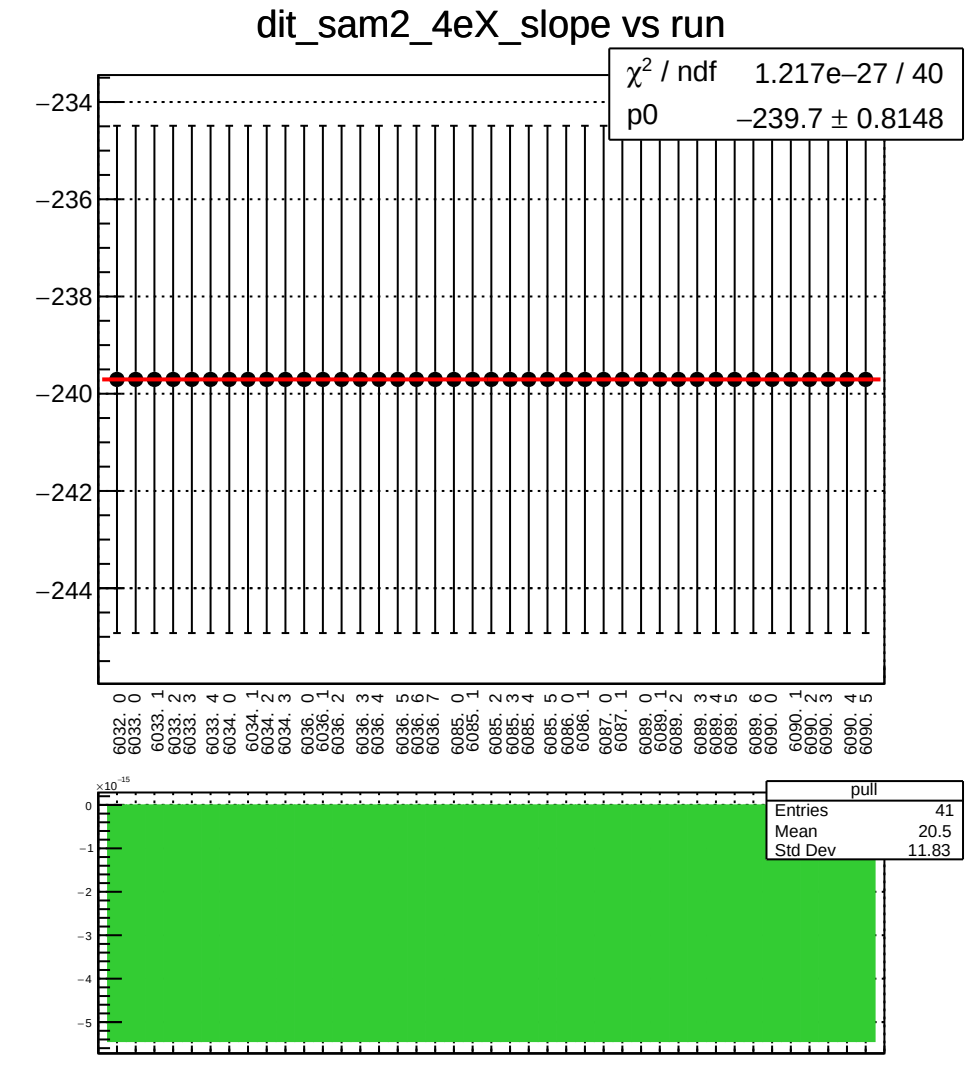

dit_sam1_4aY_slope vs run
χ² / ndf 7.738e−24 / 40
p0 −53.03 ± 0.01788
−52.9
−52.95
−53
−53.05
−53.1
−53.15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −4.344e−13
Std Dev 1.66e−20
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

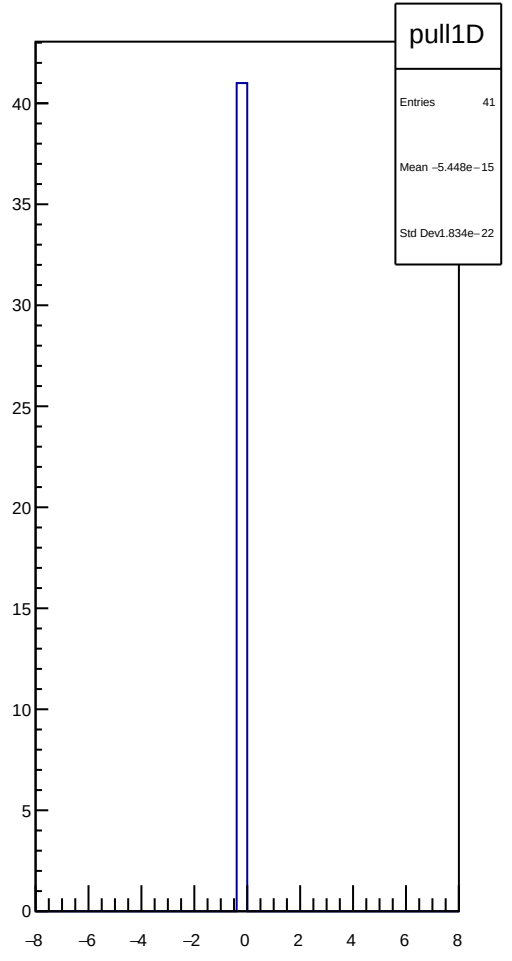

dit_sam1_4eY_slope vs run
χ² / ndf 4.933e−26 / 40
p0 9.858 ± 0.05599
10.2
10.1
10
9.9
9.8
9.7
9.6
9.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
35
30
25
20
15
10
5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

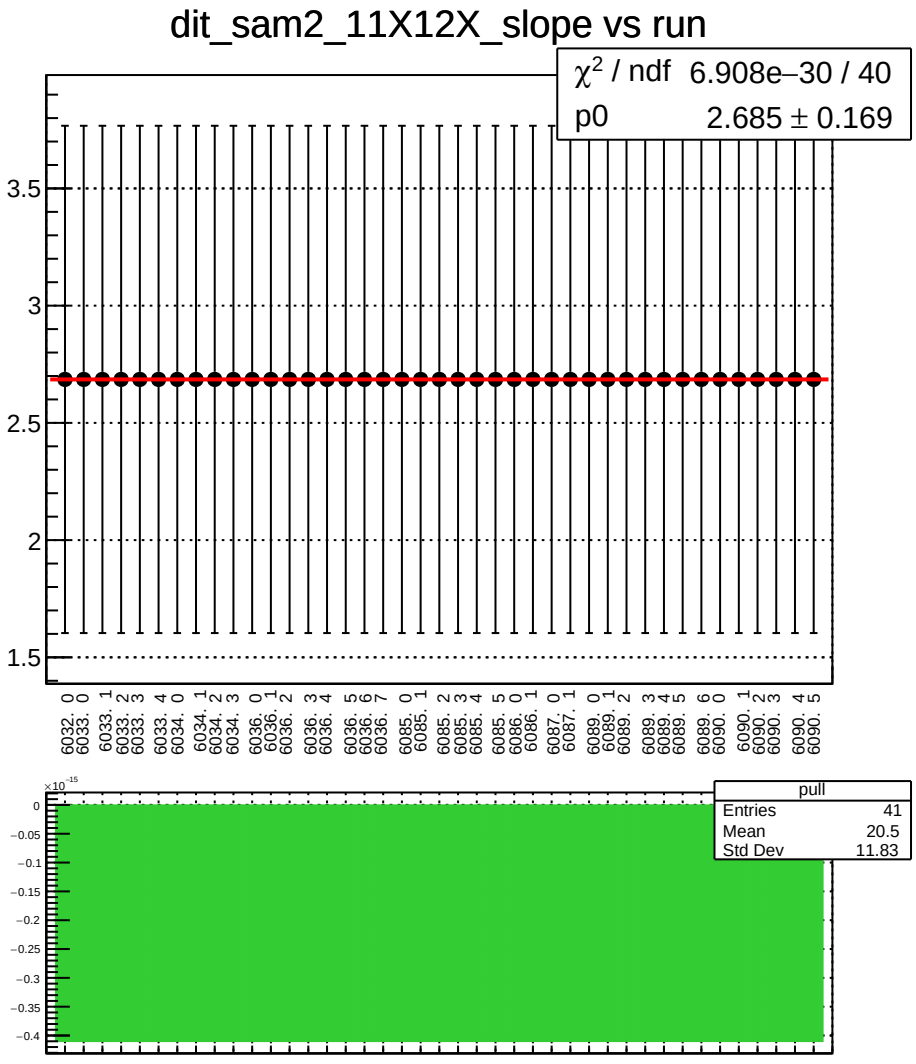

pull1D
Entries 41
Mean 3.469e−14
Std Dev 9.47e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

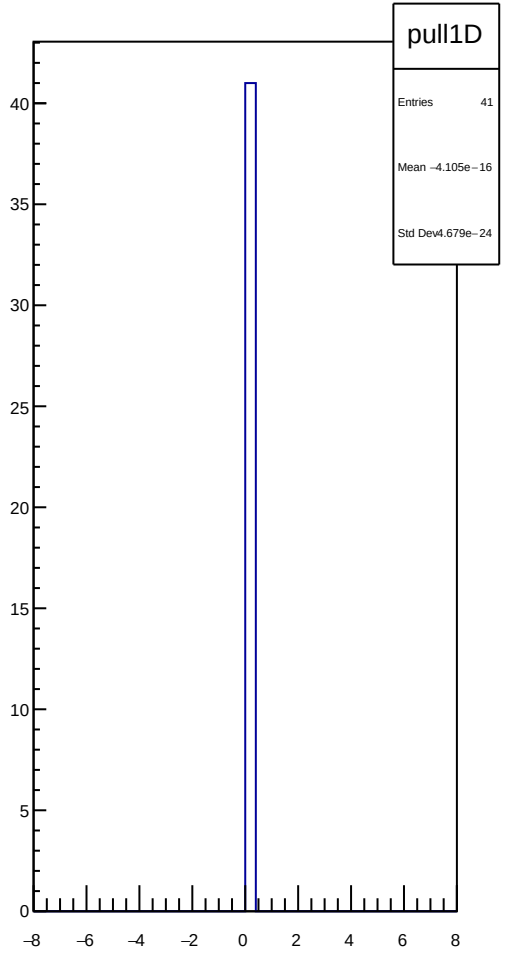

dit_sam2_4aX_slope vs run
χ² / ndf 6.419e−28 / 40
p0 19.55 ± 0.8413
pull
Entries 41
Mean 20.5
Std Dev 11.83

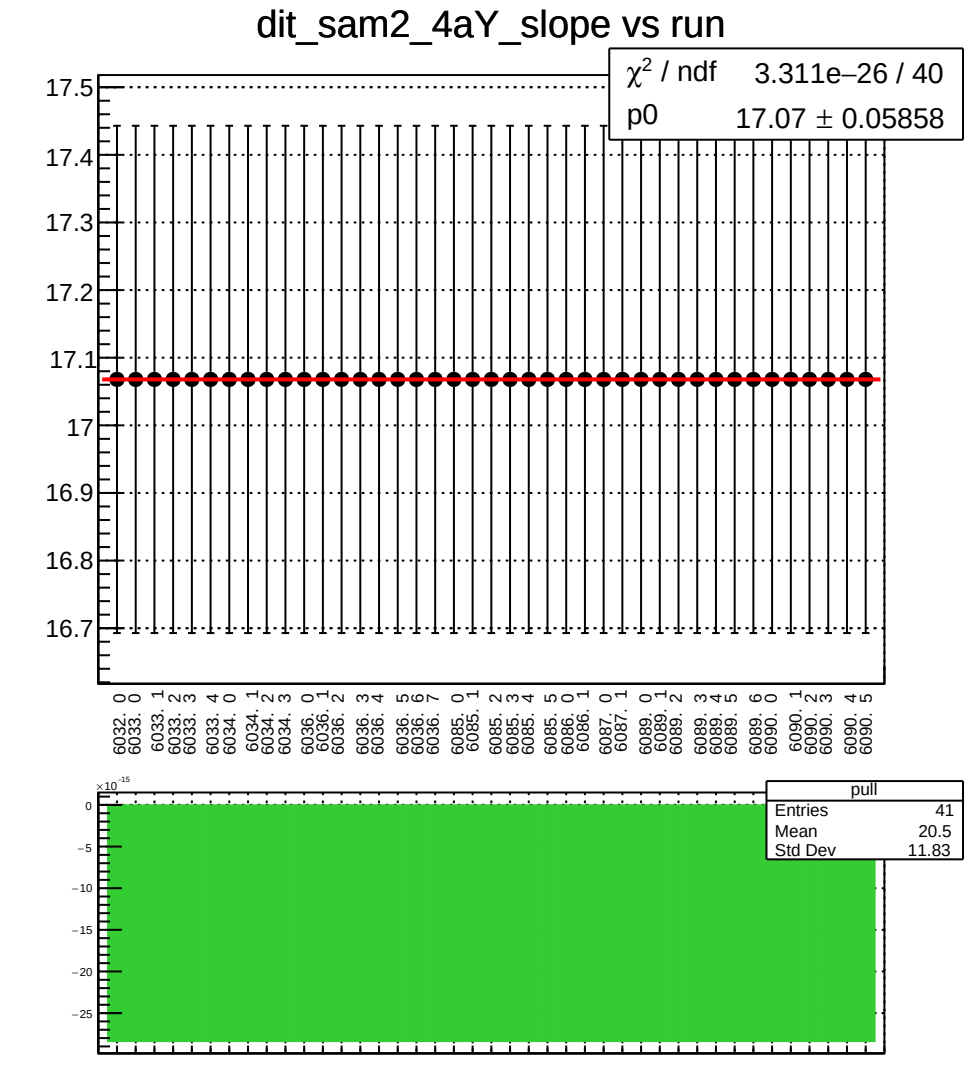

pull1D
Entries 41
Mean −3.957e−15
Std Dev 5.294e−23

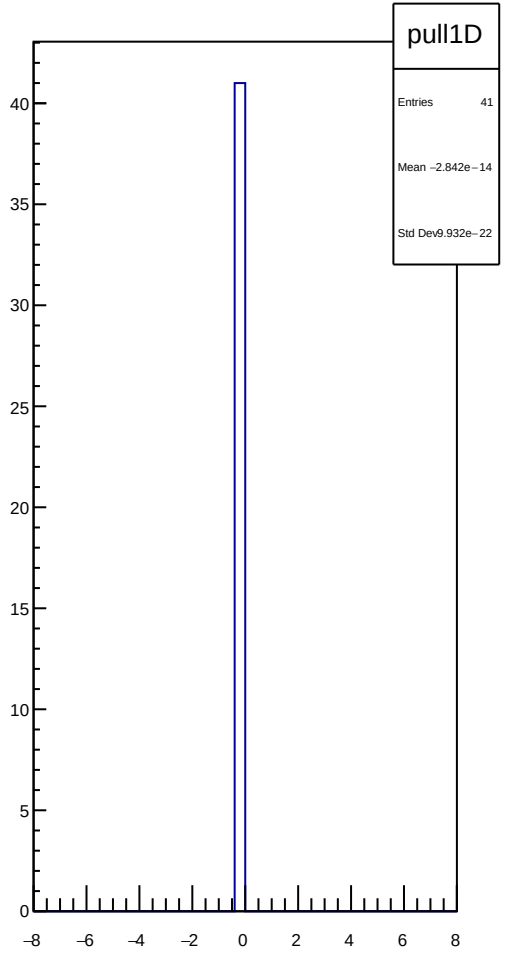

dit_sam2_4eX_slope vs run
χ² / ndf 1.217e−27 / 40
p0 −239.7 ± 0.8148
−234
−236
−238
−240
−242
−244
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 41
Mean 20.5
Std Dev 11.83

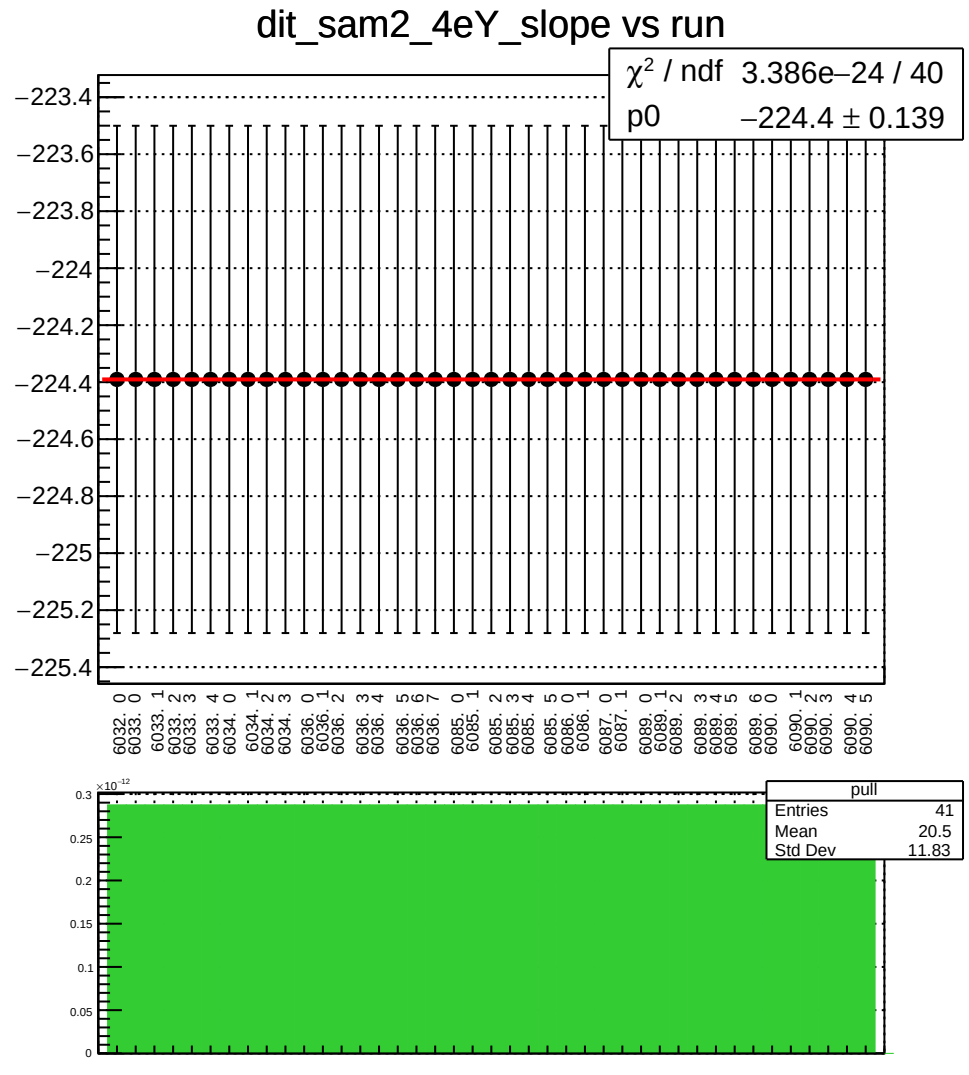

pull1D
Entries 41
Mean −5.448e−15
Std Dev1.834e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

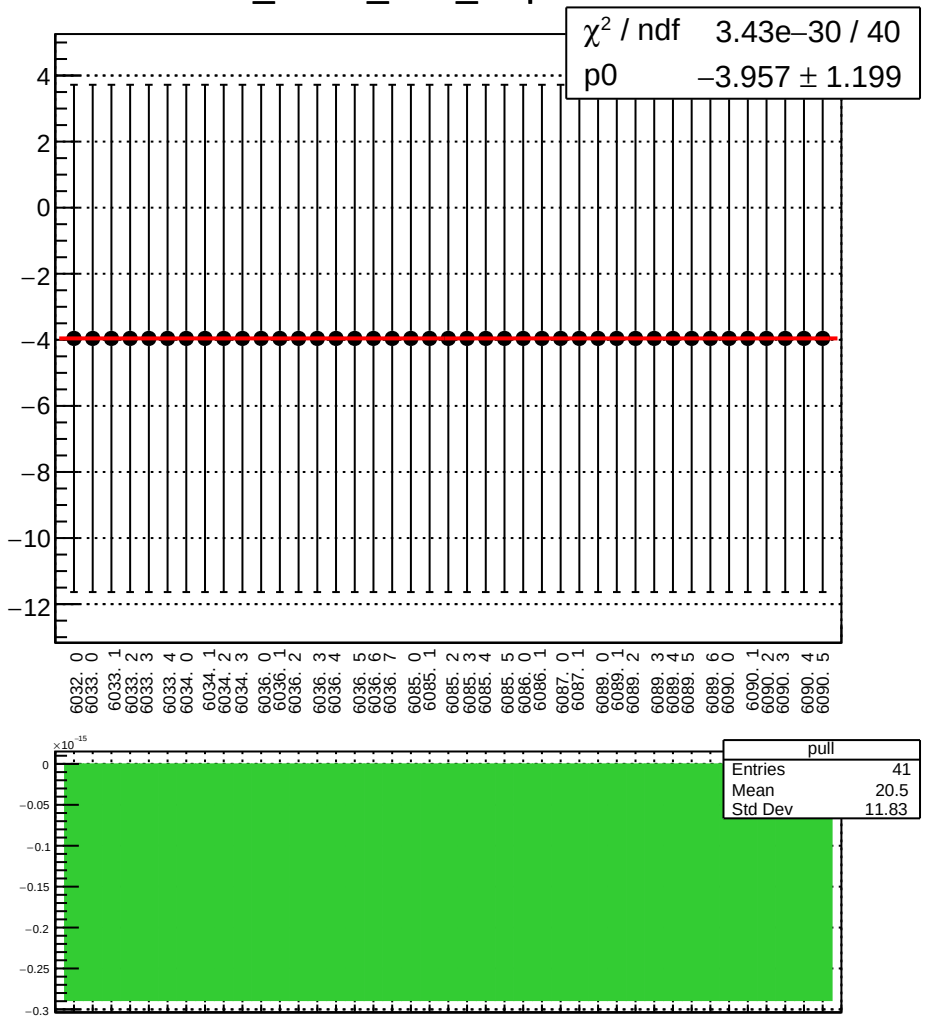

dit_sam2_11X12X_slope vs run
χ² / ndf 6.908e−30 / 40
p0 2.685 ± 0.169
3.5
3
2.5
2
1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 41
Mean 20.5
Std Dev 11.83

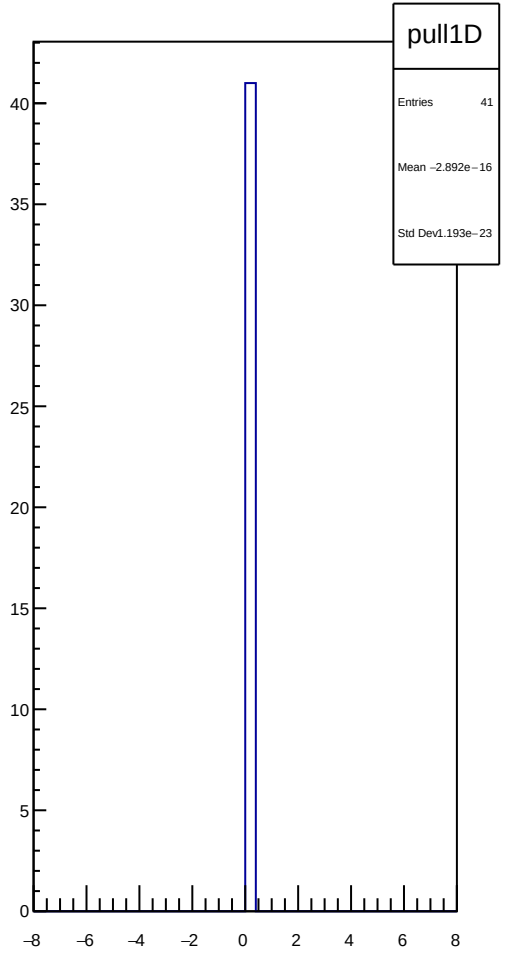

pull1D
Entries 41
Mean −4.105e−16
Std Dev 4.679e−24
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

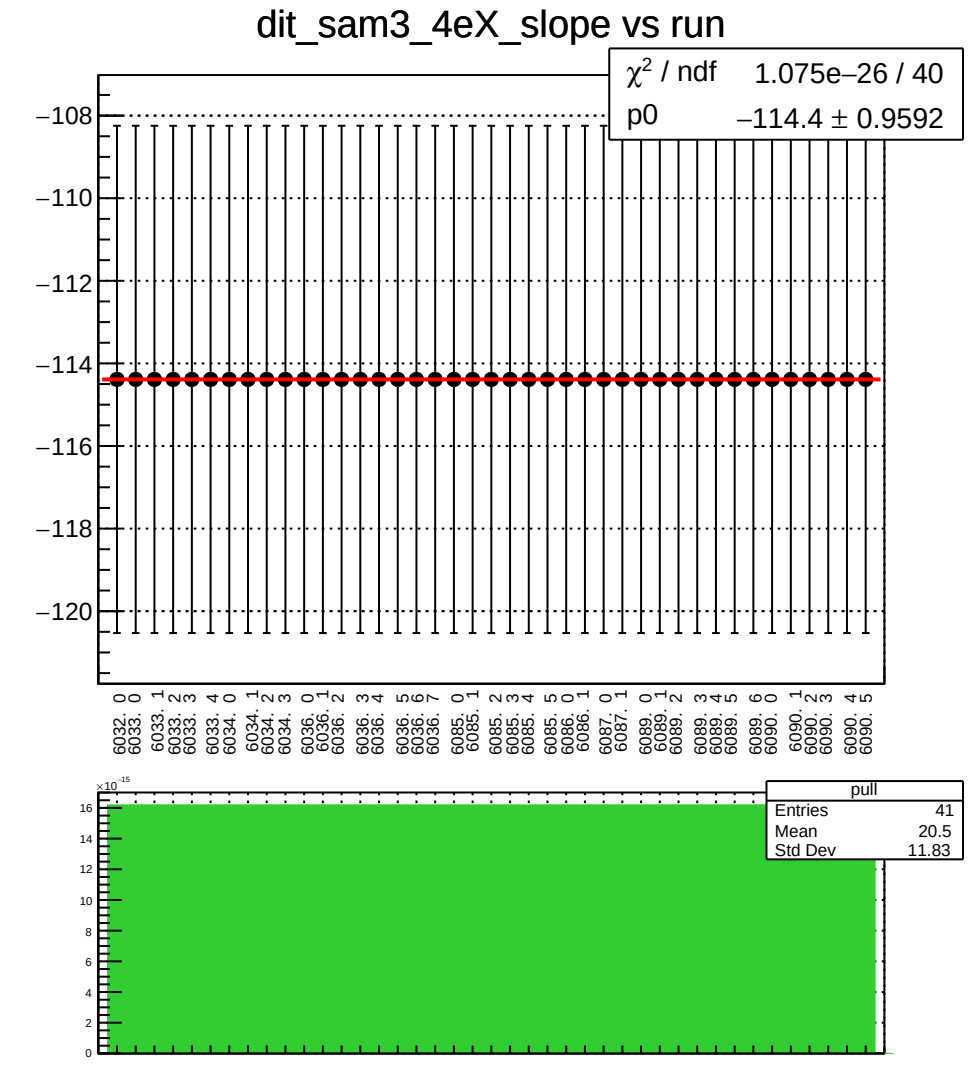

dit_sam2_4aY_slope vs run
χ² / ndf 3.311e−26 / 40
p0 17.07 ± 0.05858
17.5
17.4
17.3
17.2
17.1
17
16.9
16.8
16.7
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 41
Mean 20.5
Std Dev 11.83

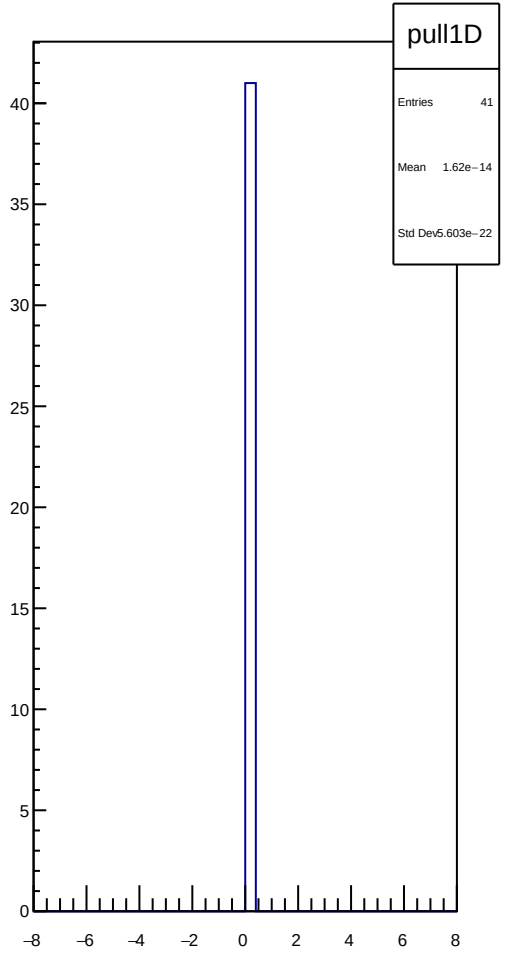

pull1D
Entries 41
Mean −2.842e−14
Std Dev9.932e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

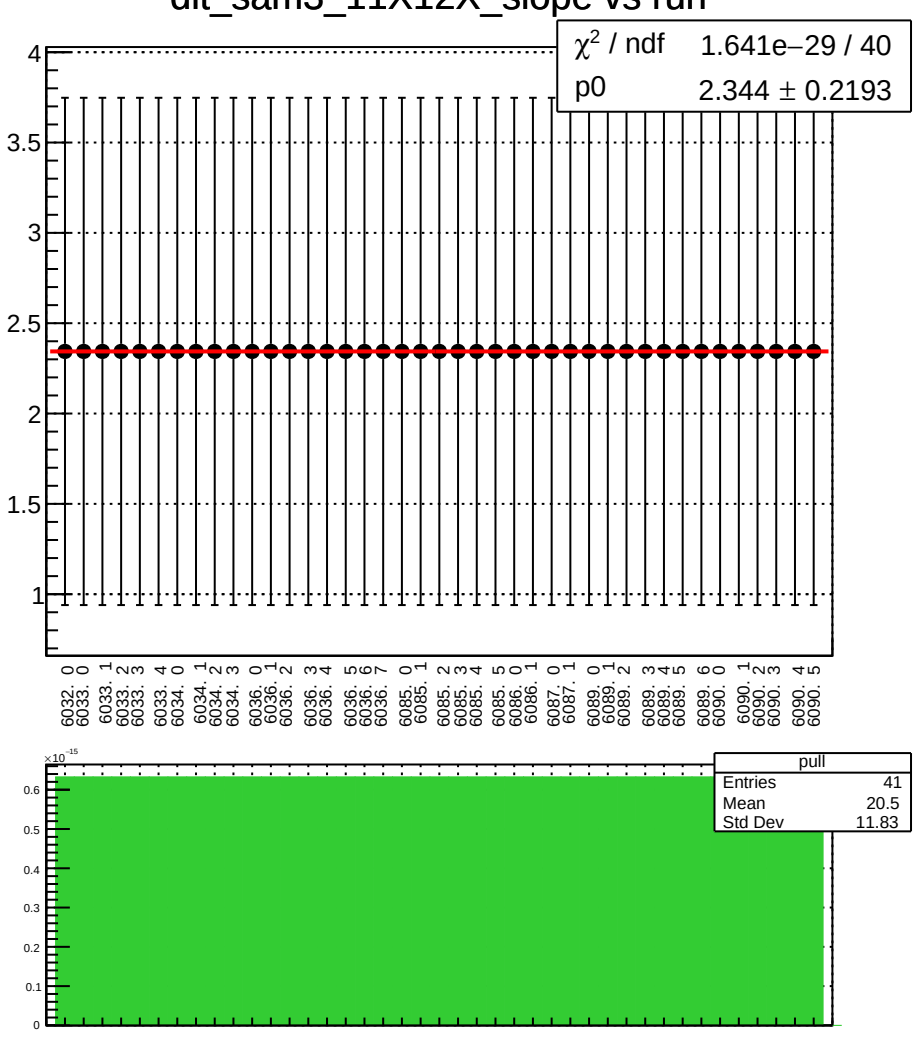

dit_sam2_4eY_slope vs run
χ² / ndf 3.386e−24 / 40
p0 −224.4 ± 0.139
−223.4
−223.6
−223.8
−224
−224.2
−224.4
−224.6
−224.8
−225
−225.2
−225.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 2.874e−13
Std Dev1.071e−20
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

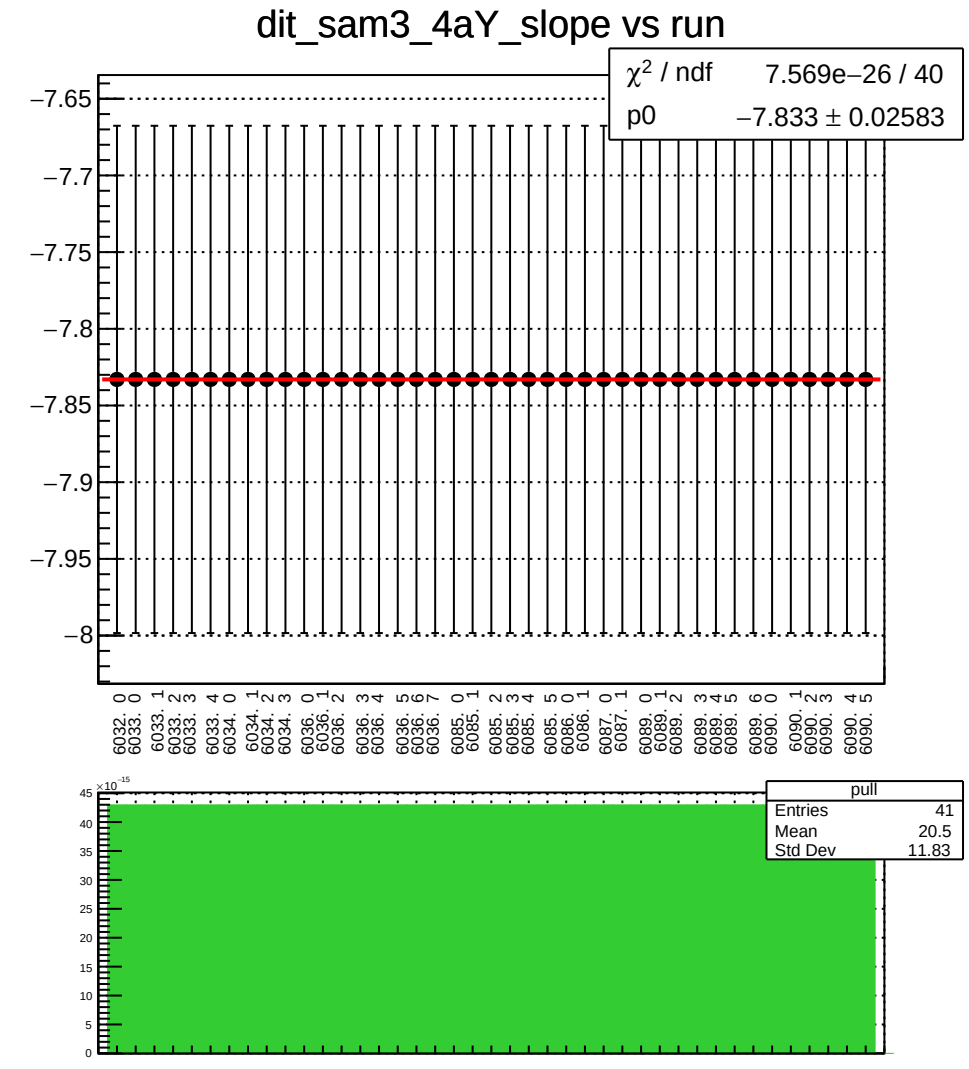

dit_sam3_4aX_slope vs run
χ² / ndf 3.43e−30 / 40
p0 −3.957 ± 1.199
4
2
0
−2
−4
−6
−8
−10
−12
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 41
Mean 20.5
Std Dev 11.83

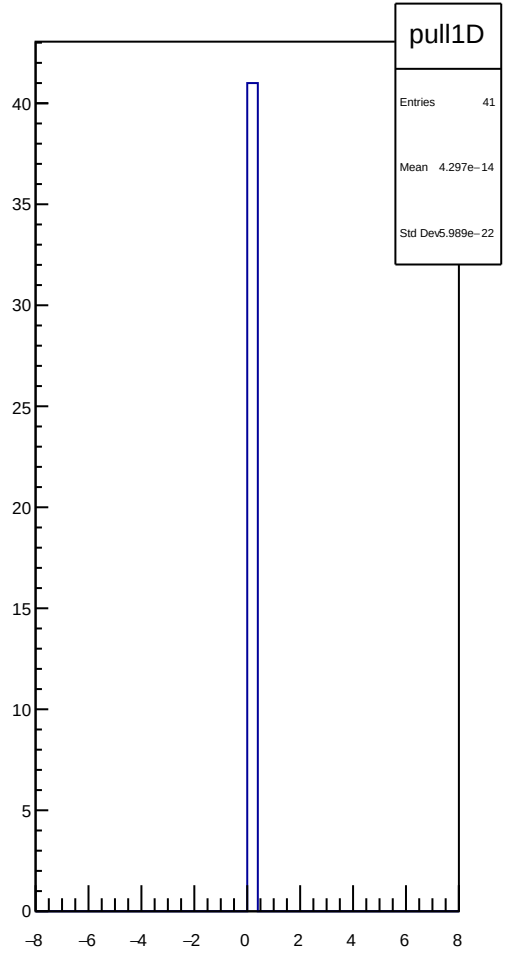

pull1D
Entries 41
Mean −2.892e−16
Std Dev1.193e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

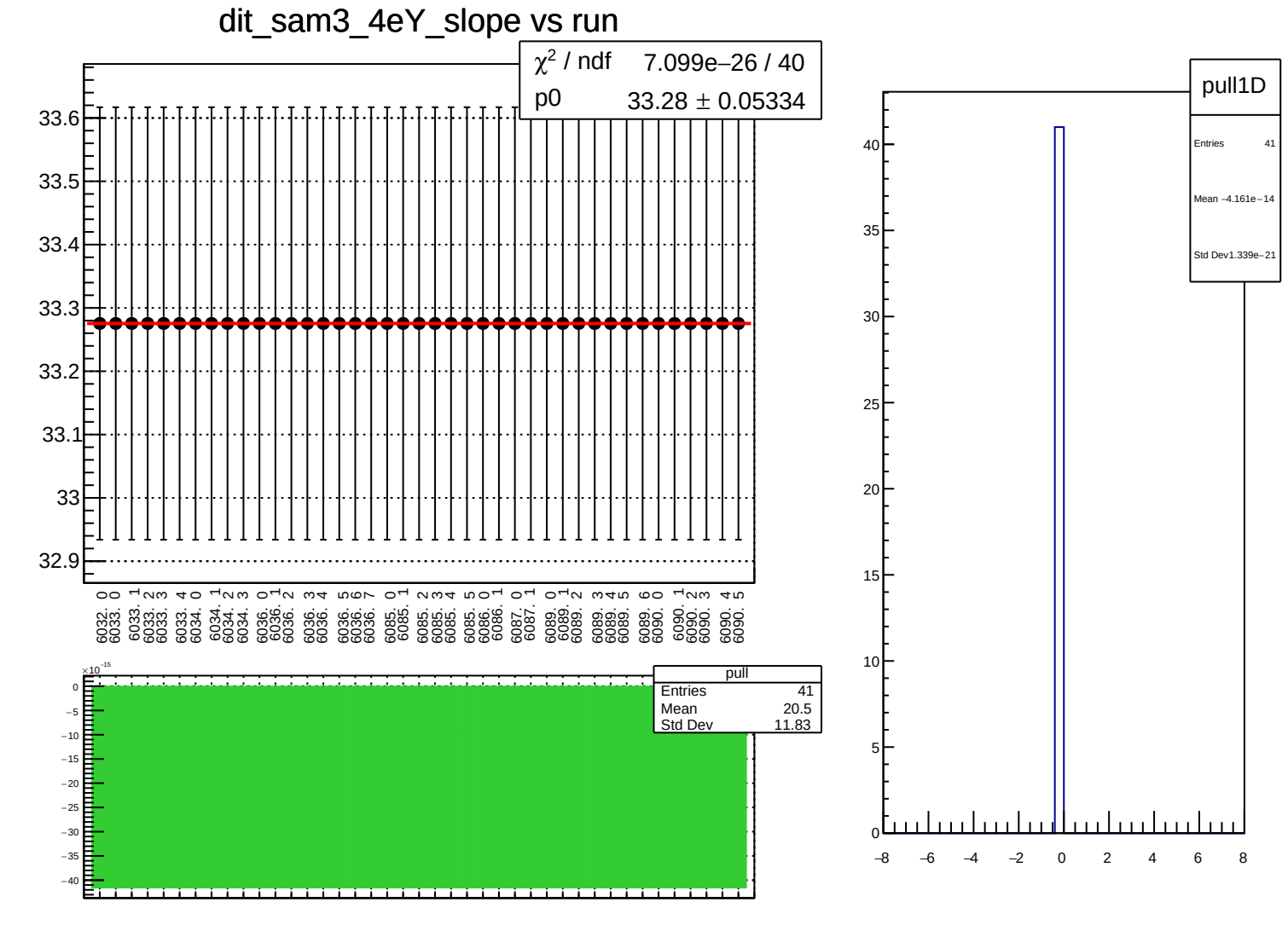

dit_sam3_4eX_slope vs run
χ² / ndf 1.075e−26 / 40
p0 −114.4 ± 0.9592
−108
−110
−112
−114
−116
−118
−120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

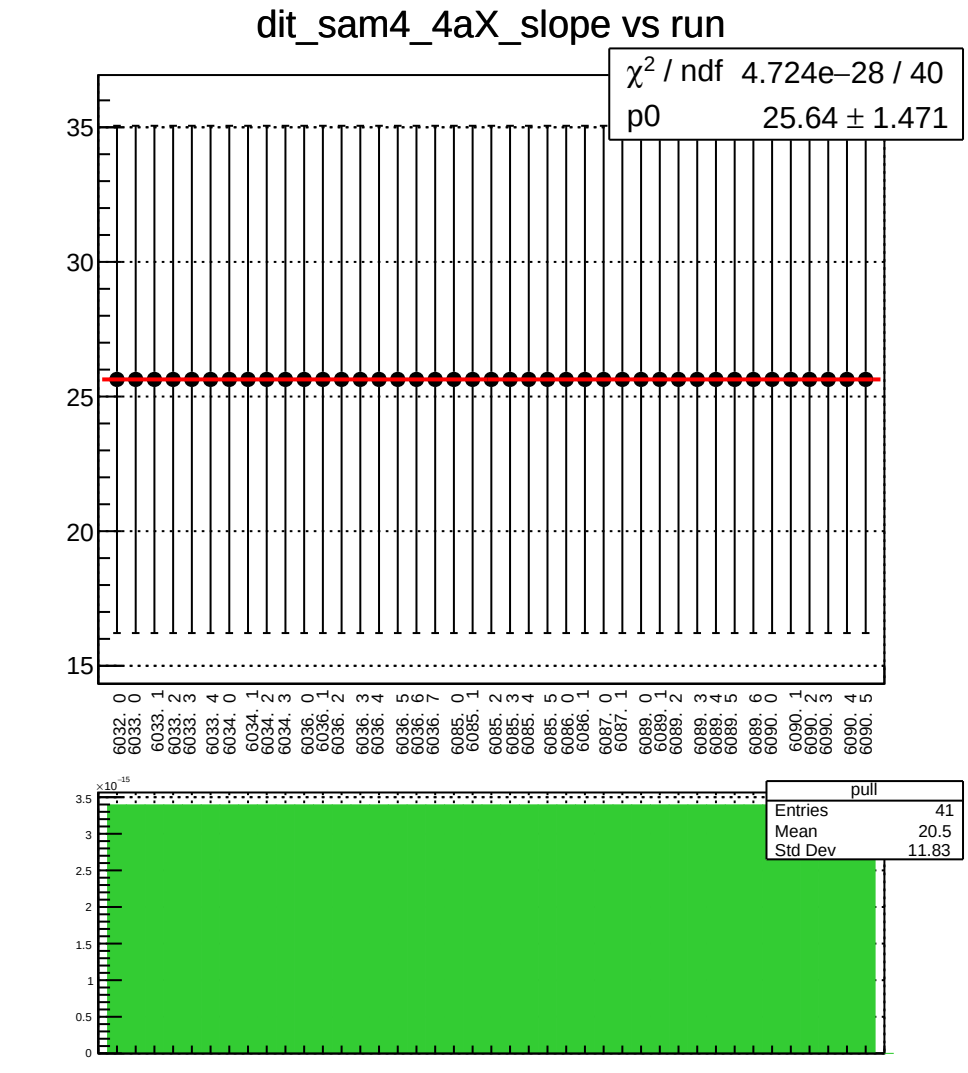

pull1D
Entries 41
Mean 1.62e−14
Std Dev 5.603e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

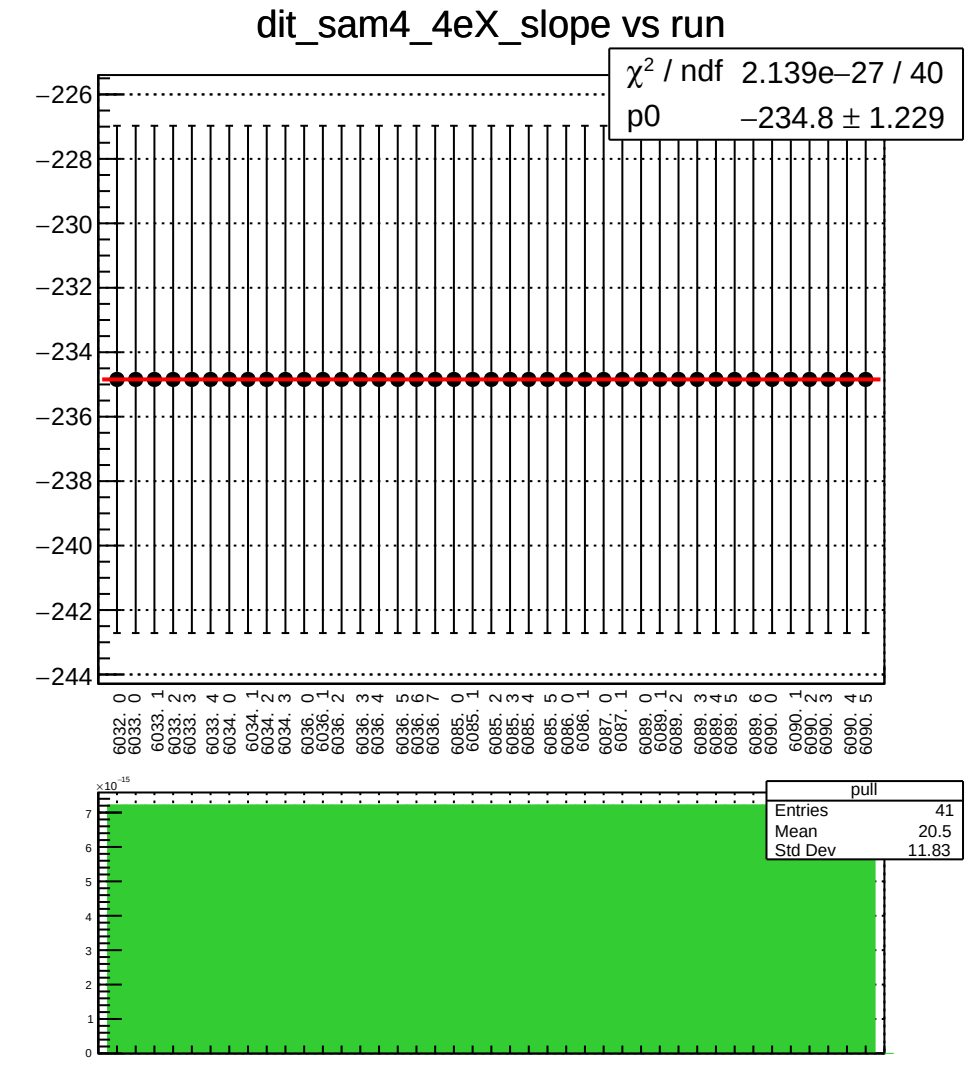

dit_sam3_11X12X_slope vs run
χ² / ndf 1.641e−29 / 40
p0 2.344 ± 0.2193
4
3.5
3
2.5
2
1.5
1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 6.326e−16
Std Dev 2.647e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

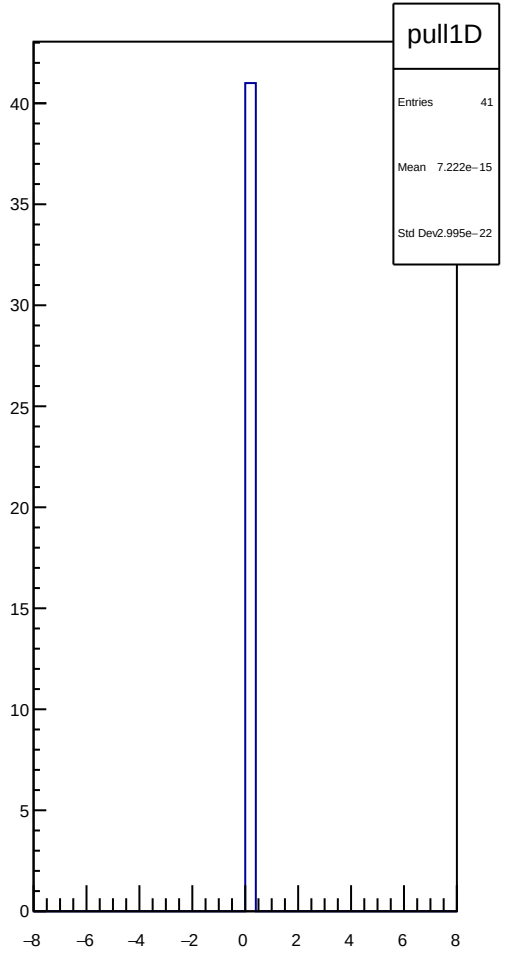

dit_sam3_4aY_slope vs run
χ² / ndf 7.569e−26 / 40
p0 −7.833 ± 0.02583
−7.65
−7.7
−7.75
−7.8
−7.85
−7.9
−7.95
−8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

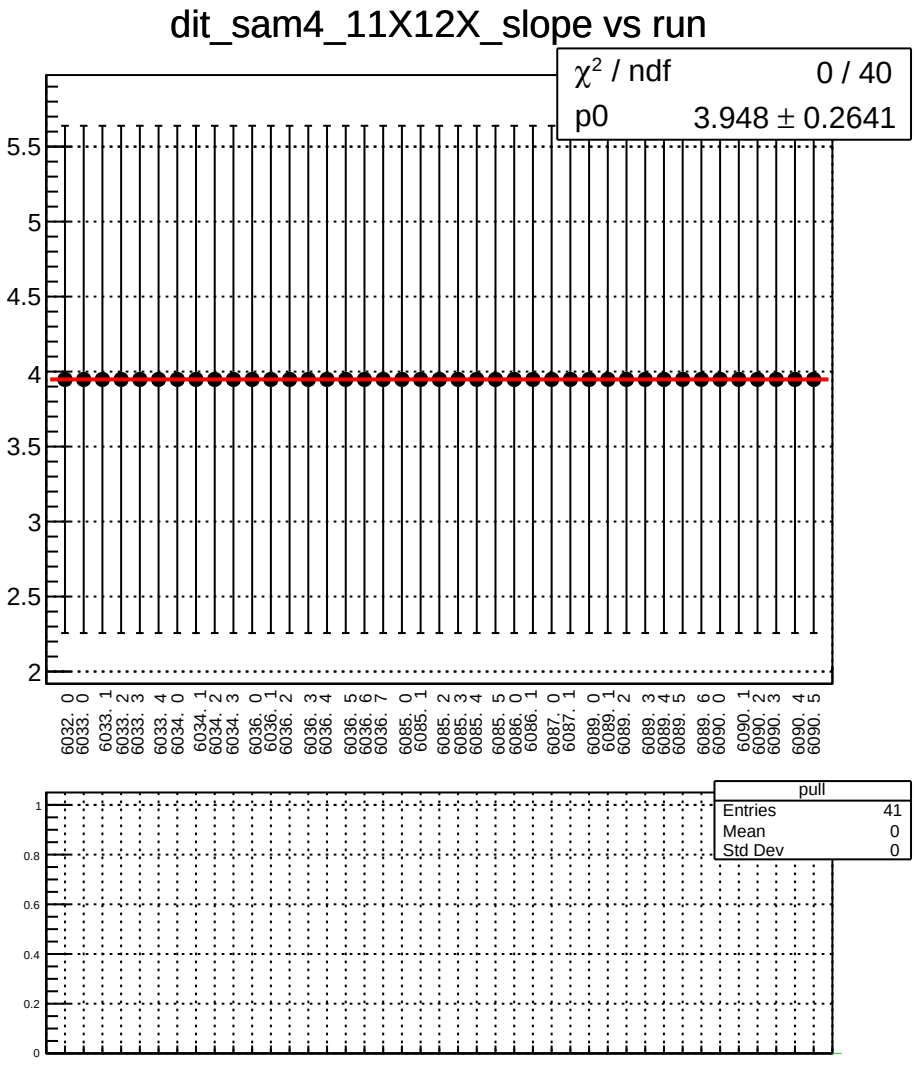

pull1D
Entries 41
Mean 4.297e−14
Std Dev 5.989e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

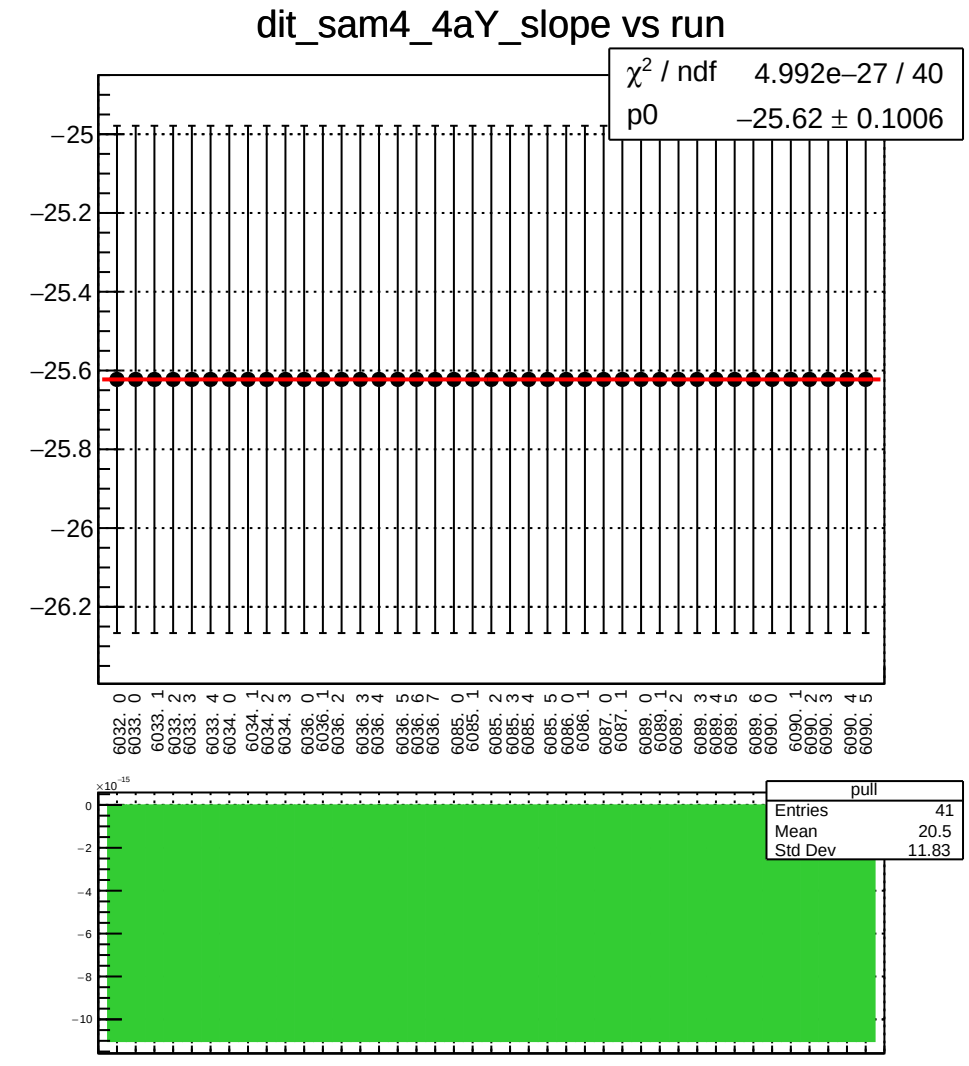

dit_sam3_4eY_slope vs run
χ² / ndf 7.099e−26 / 40
p0 33.28 ± 0.05334
33.6
33.5
33.4
33.3
33.2
33.1
33
32.9
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −4.161e−14
Std Dev1.339e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

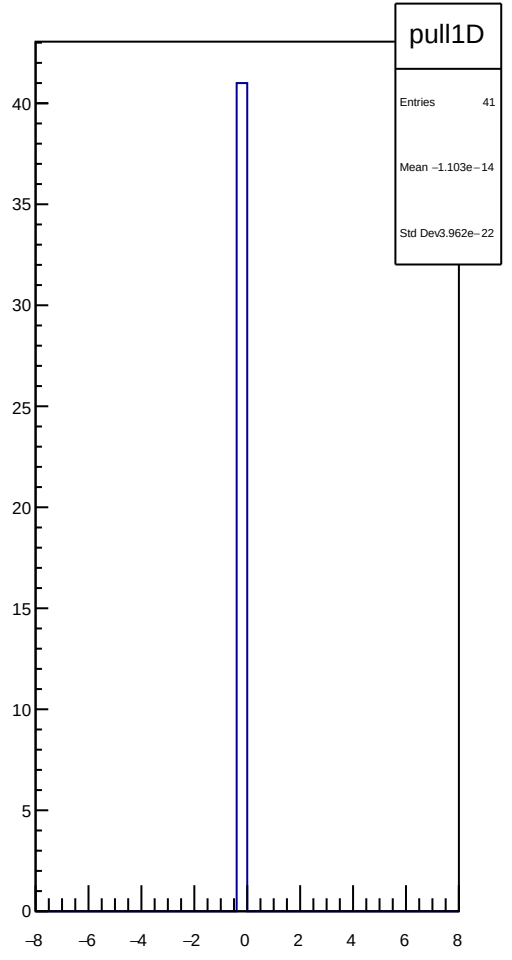

dit_sam4_4aX_slope vs run
χ² / ndf 4.724e−28 / 40
p0 25.64 ± 1.471
35
30
25
20
15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 3.394e−15
Std Dev 3.743e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

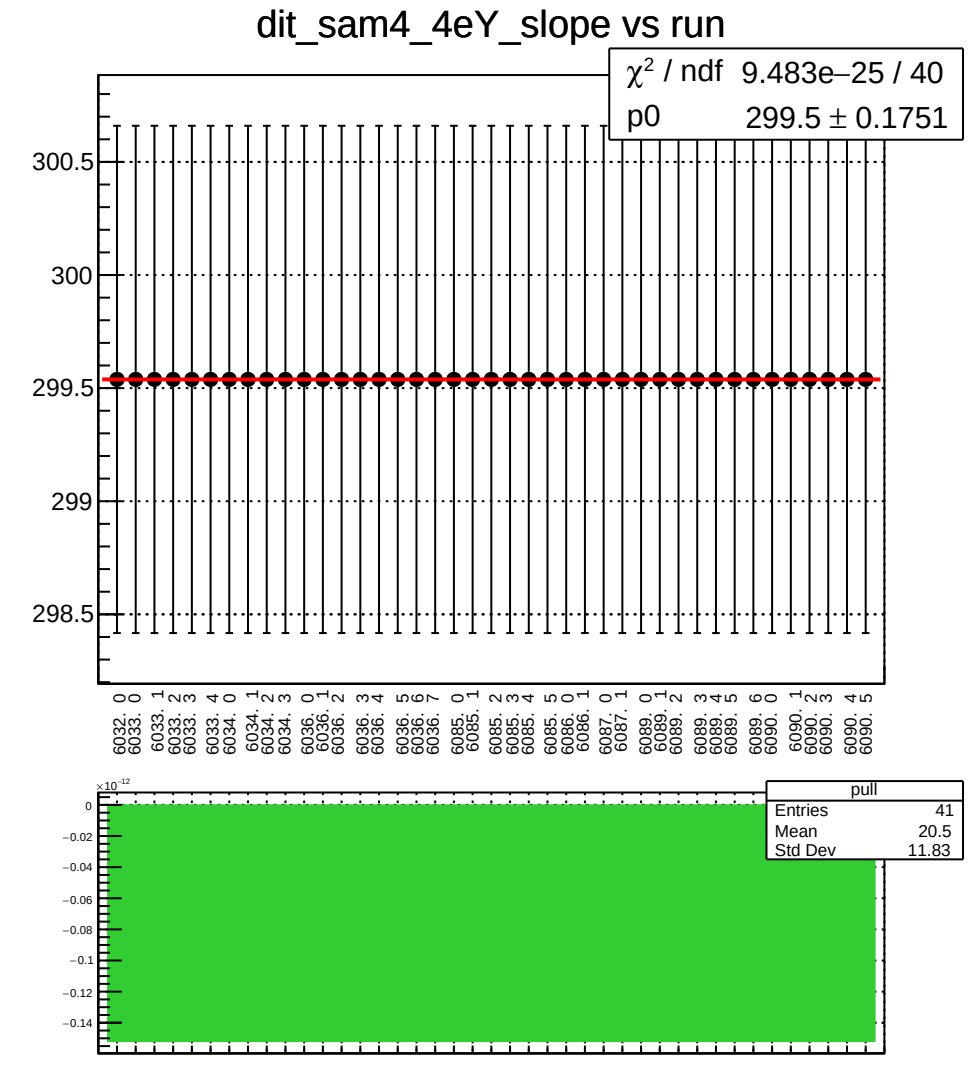

dit_sam4_4eX_slope vs run
χ² / ndf 2.139e−27 / 40
p0 −234.8 ± 1.229
−226
−228
−230
−232
−234
−236
−238
−240
−242
−244
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
7
6
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

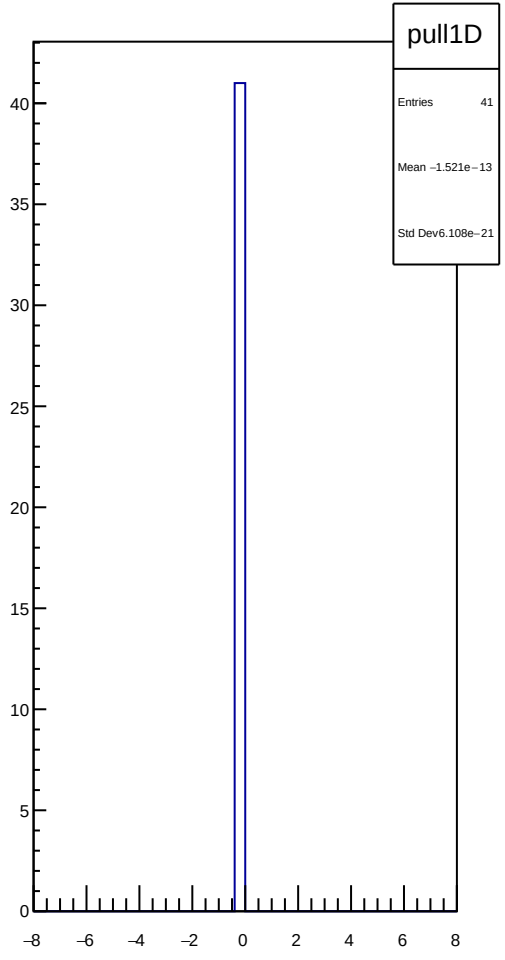

pull1D
Entries 41
Mean 7.222e−15
Std Dev 2.995e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

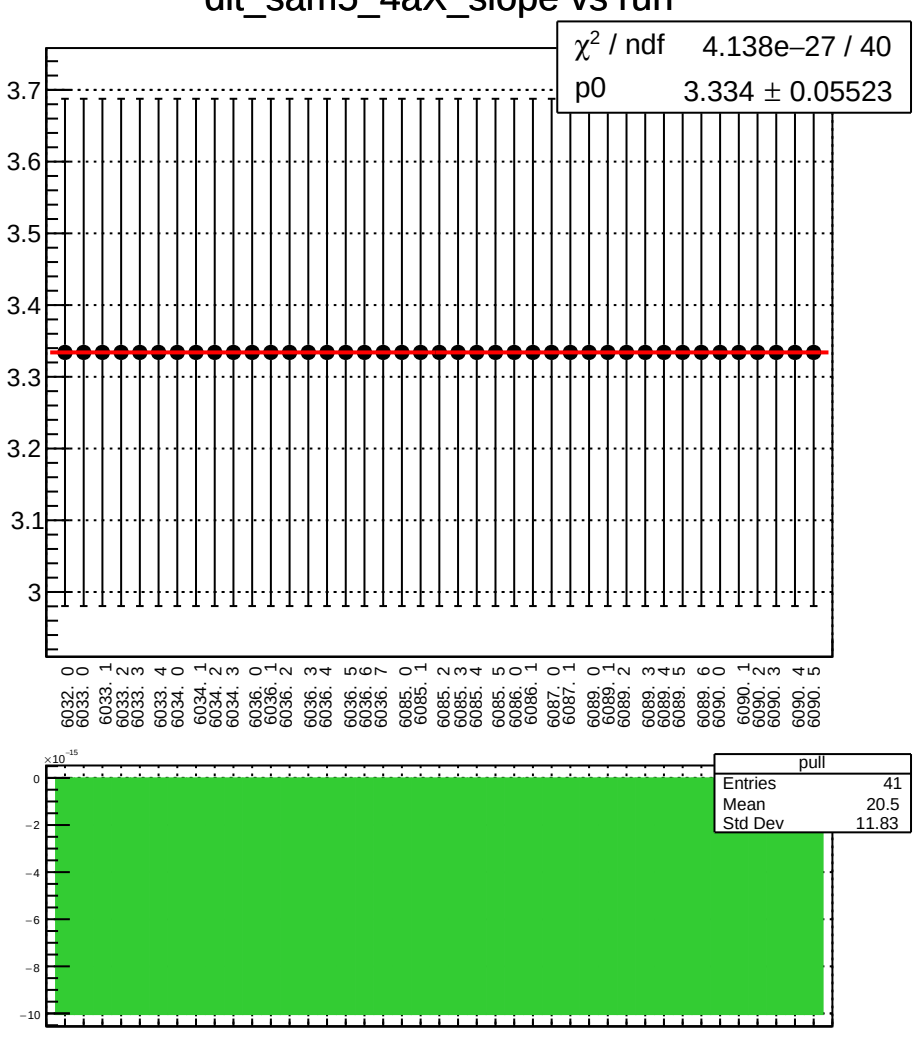

dit_sam4_11X12X_slope vs run
χ² / ndf 0 / 40
p0 3.948 ± 0.2641
5.5
5
4.5
4
3.5
3
2.5
2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

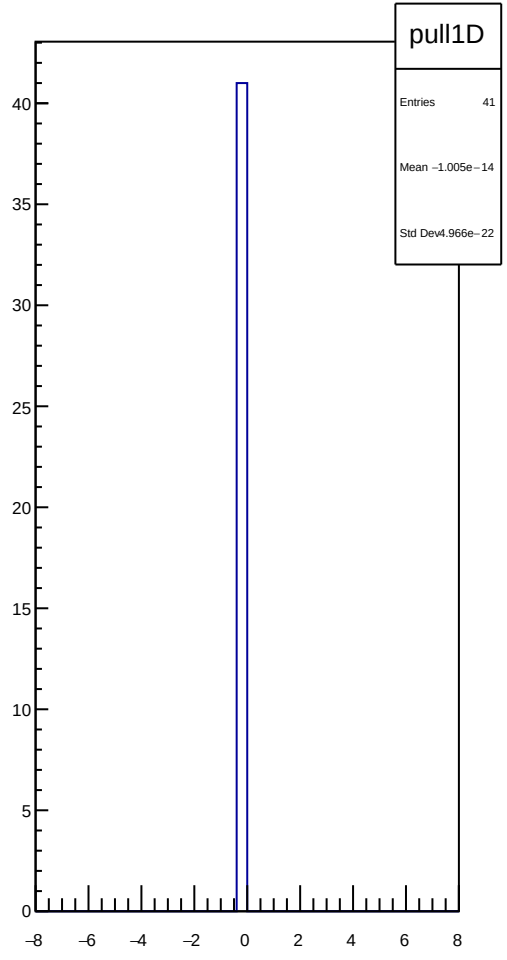

dit_sam4_4aY_slope vs run
χ² / ndf 4.992e−27 / 40
p0 −25.62 ± 0.1006
−25
−25.2
−25.4
−25.6
−25.8
−26
−26.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 41
Mean 20.5
Std Dev 11.83

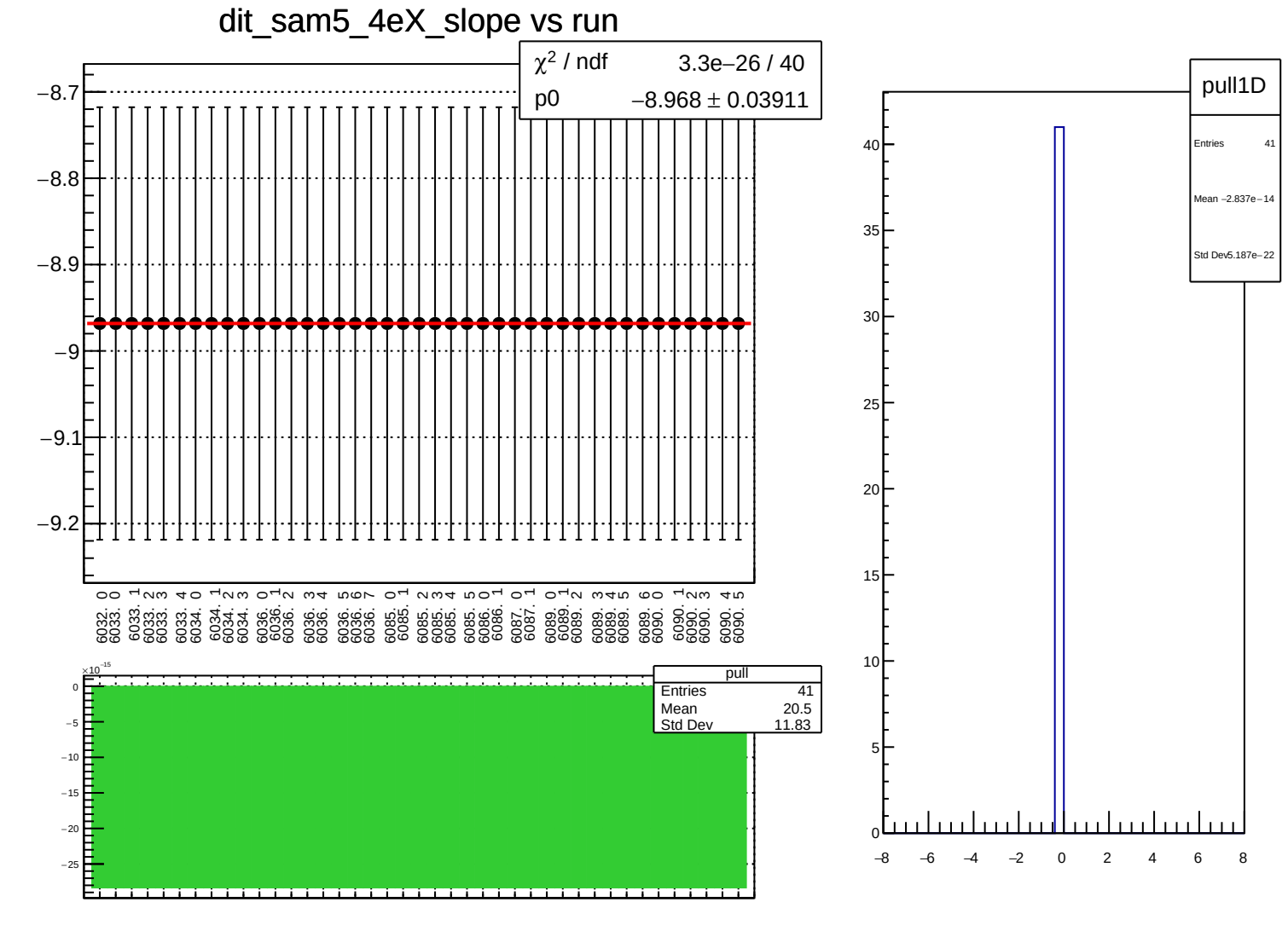

pull1D
Entries 41
Mean −1.103e−14
Std Dev 3.962e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

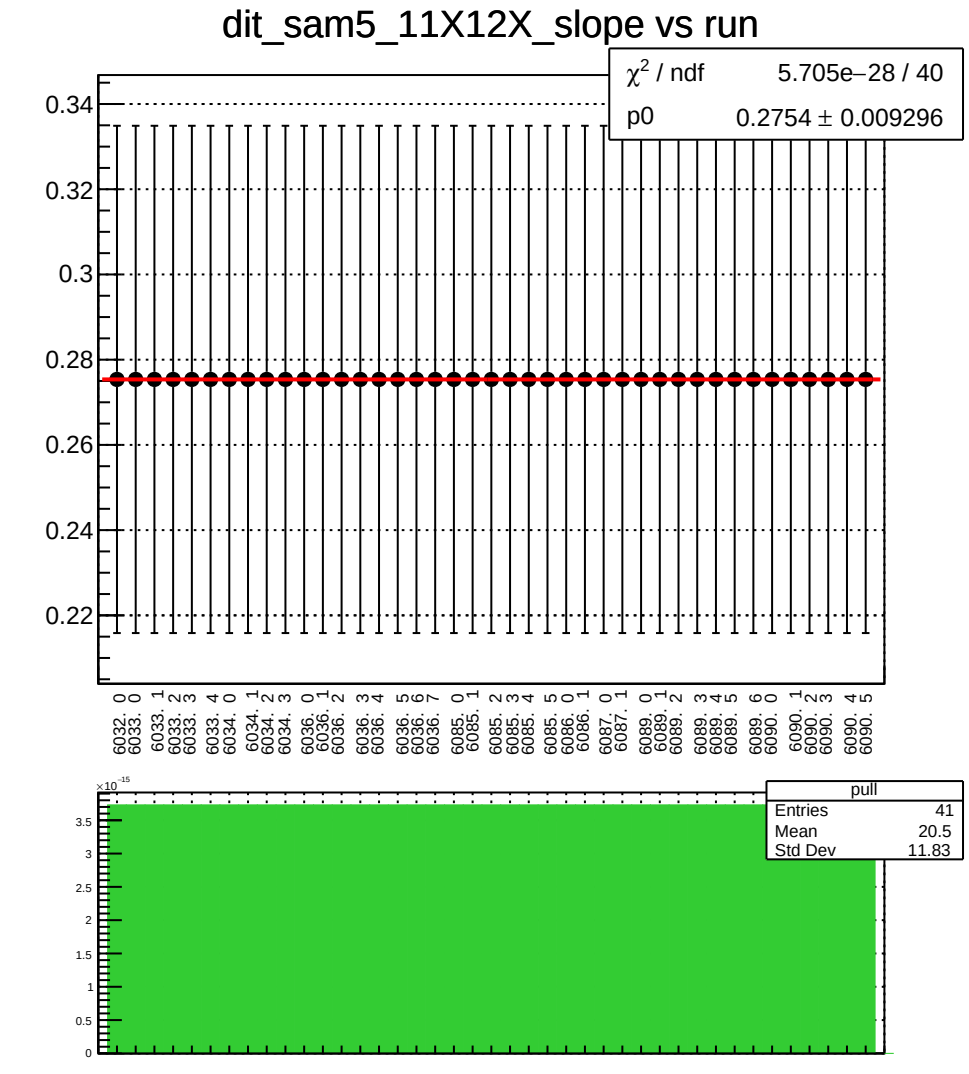

dit_sam4_4eY_slope vs run
χ² / ndf 9.483e−25 / 40
p0 299.5 ± 0.1751
300.5
300
299.5
299
298.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 41
Mean 20.5
Std Dev 11.83

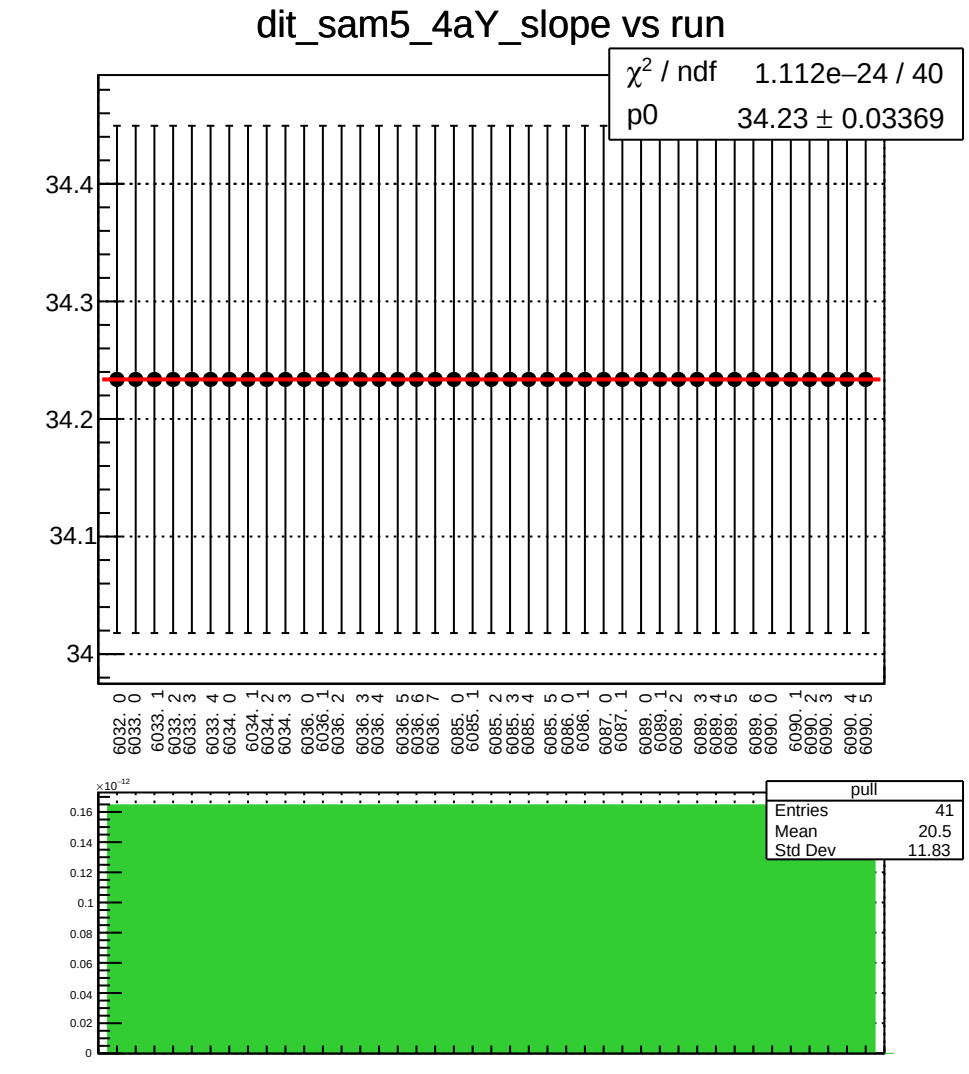

pull1D
Entries 41
Mean −1.521e−13
Std Dev6.108e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

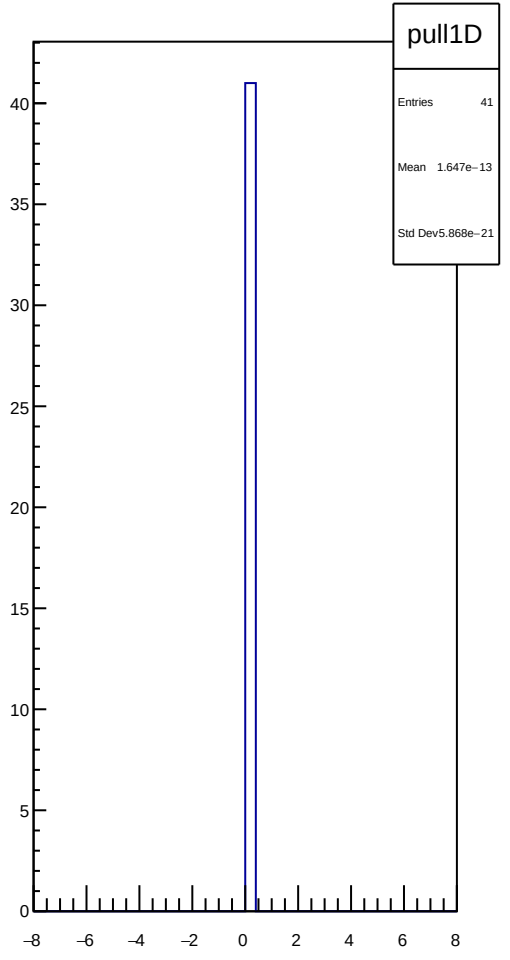

dit_sam5_4aX_slope vs run
χ² / ndf 4.138e−27 / 40
p0 3.334 ± 0.05523
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 41
Mean 20.5
Std Dev 11.83

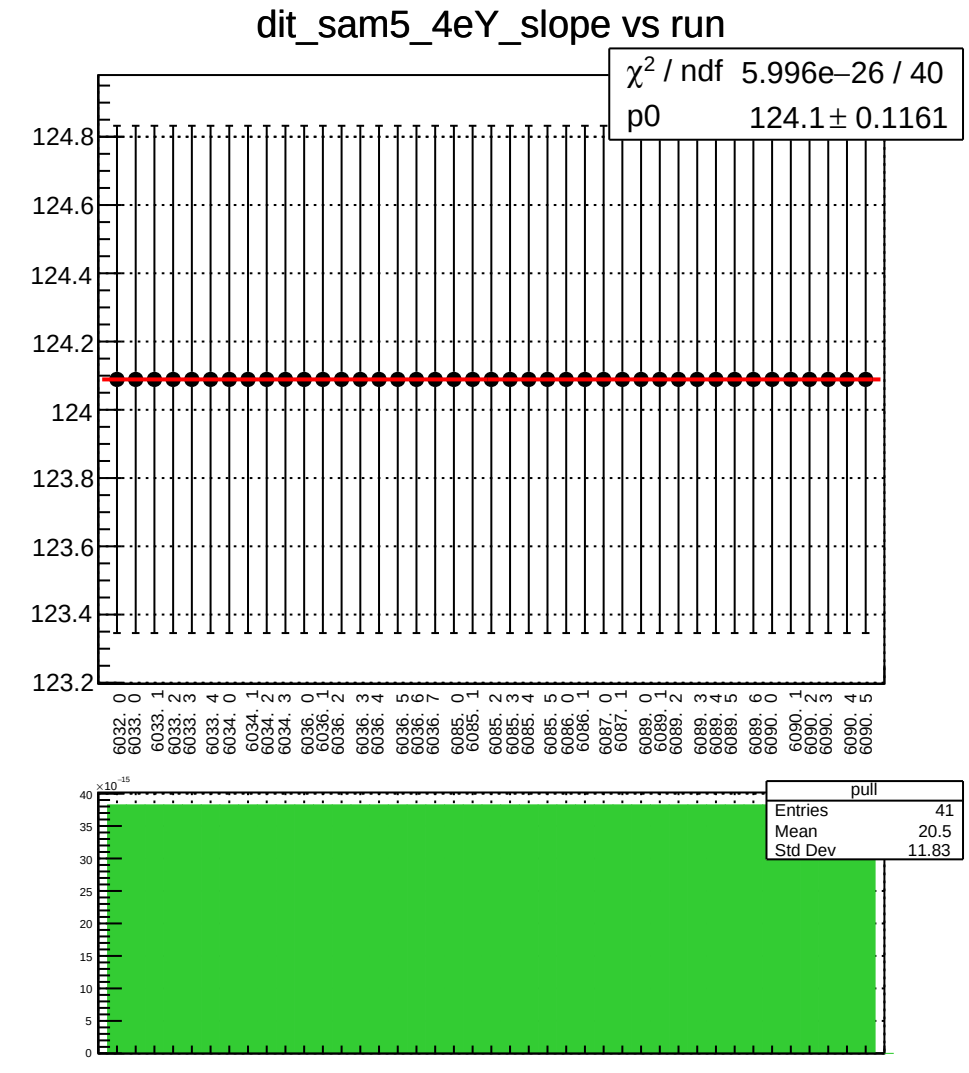

pull1D
Entries 41
Mean −1.005e−14
Std Dev4.966e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

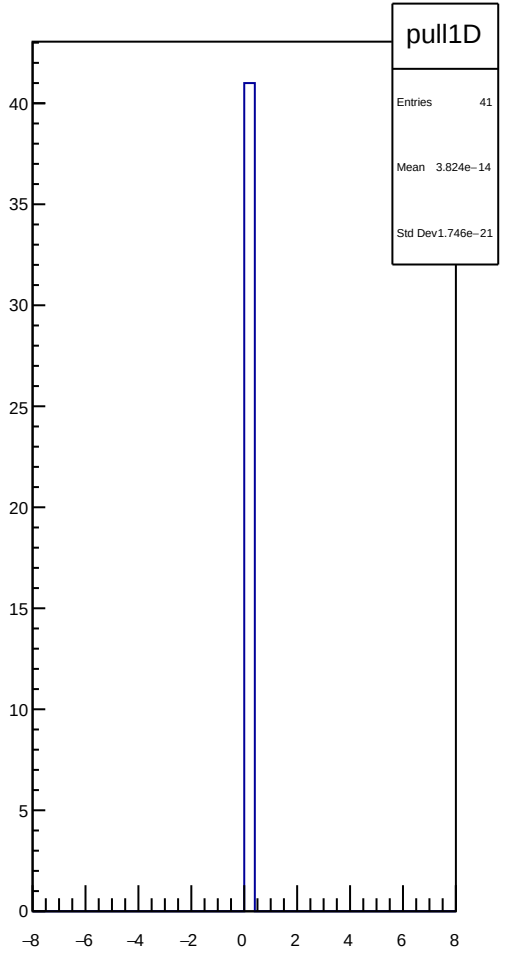

dit_sam5_4eX_slope vs run
χ² / ndf 3.3e−26 / 40
p0 −8.968 ± 0.03911
−8.7
−8.8
−8.9
−9
−9.1
−9.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −2.837e−14
Std Dev5.187e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

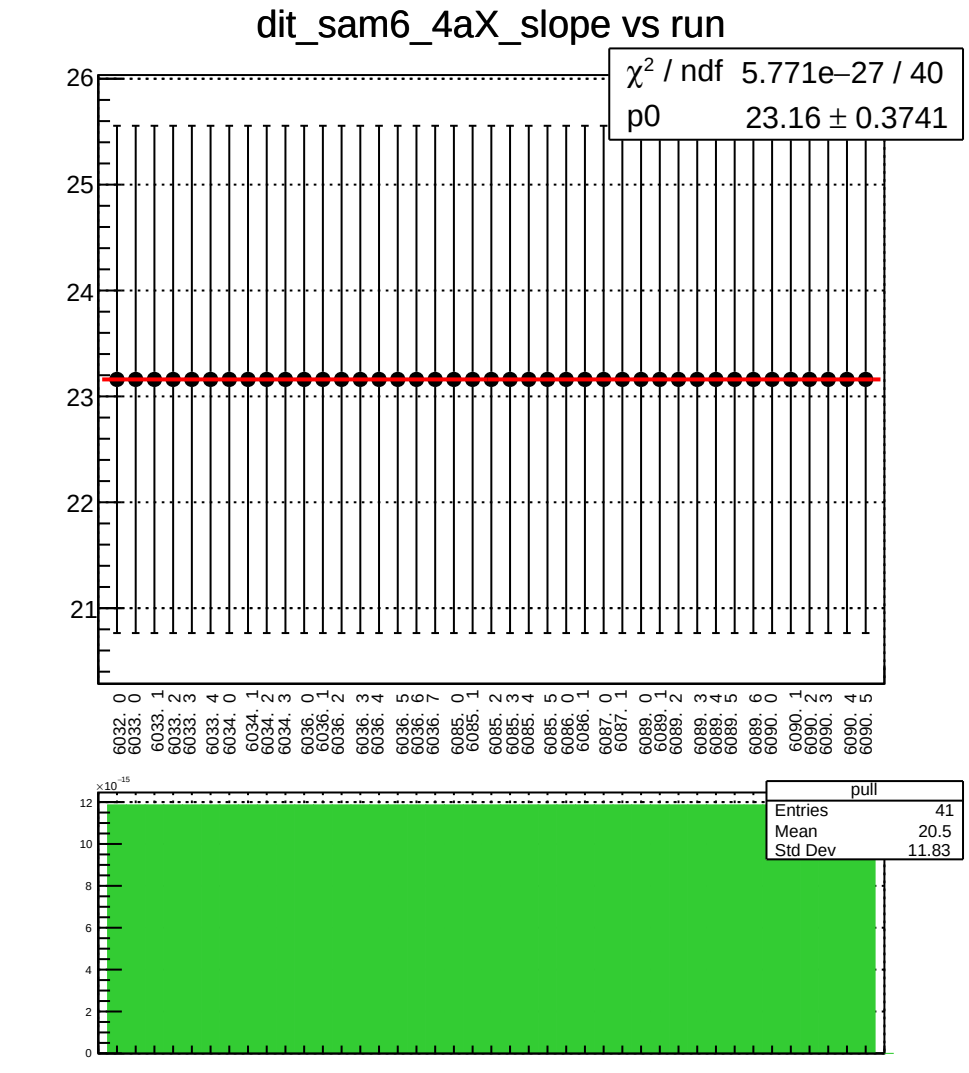

dit_sam5_11X12X_slope vs run
χ² / ndf 5.705e−28 / 40
p0 0.2754 ± 0.009296
0.34
0.32
0.3
0.28
0.26
0.24
0.22
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 3.73e−15
Std Dev 1.909e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

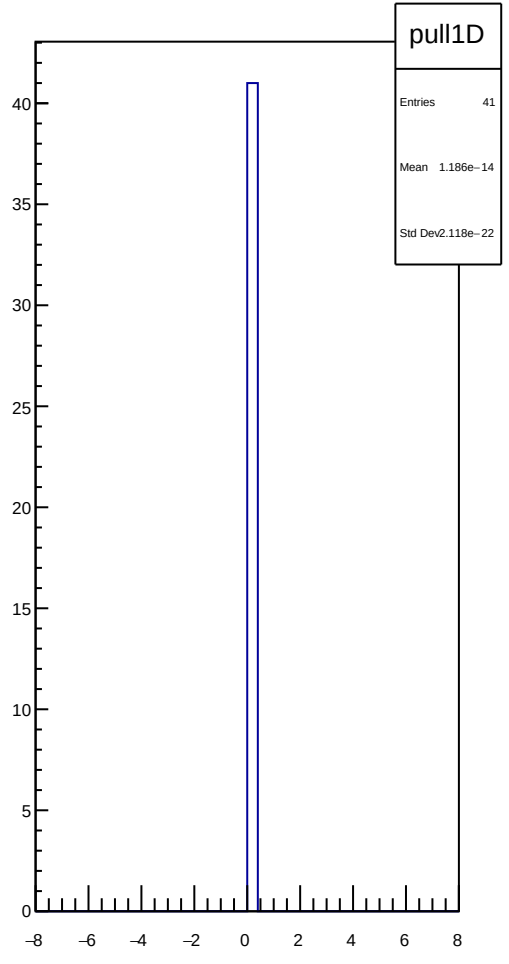

dit_sam5_4aY_slope vs run
χ² / ndf 1.112e−24 / 40
p0 34.23 ± 0.03369
34.4
34.3
34.2
34.1
34
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

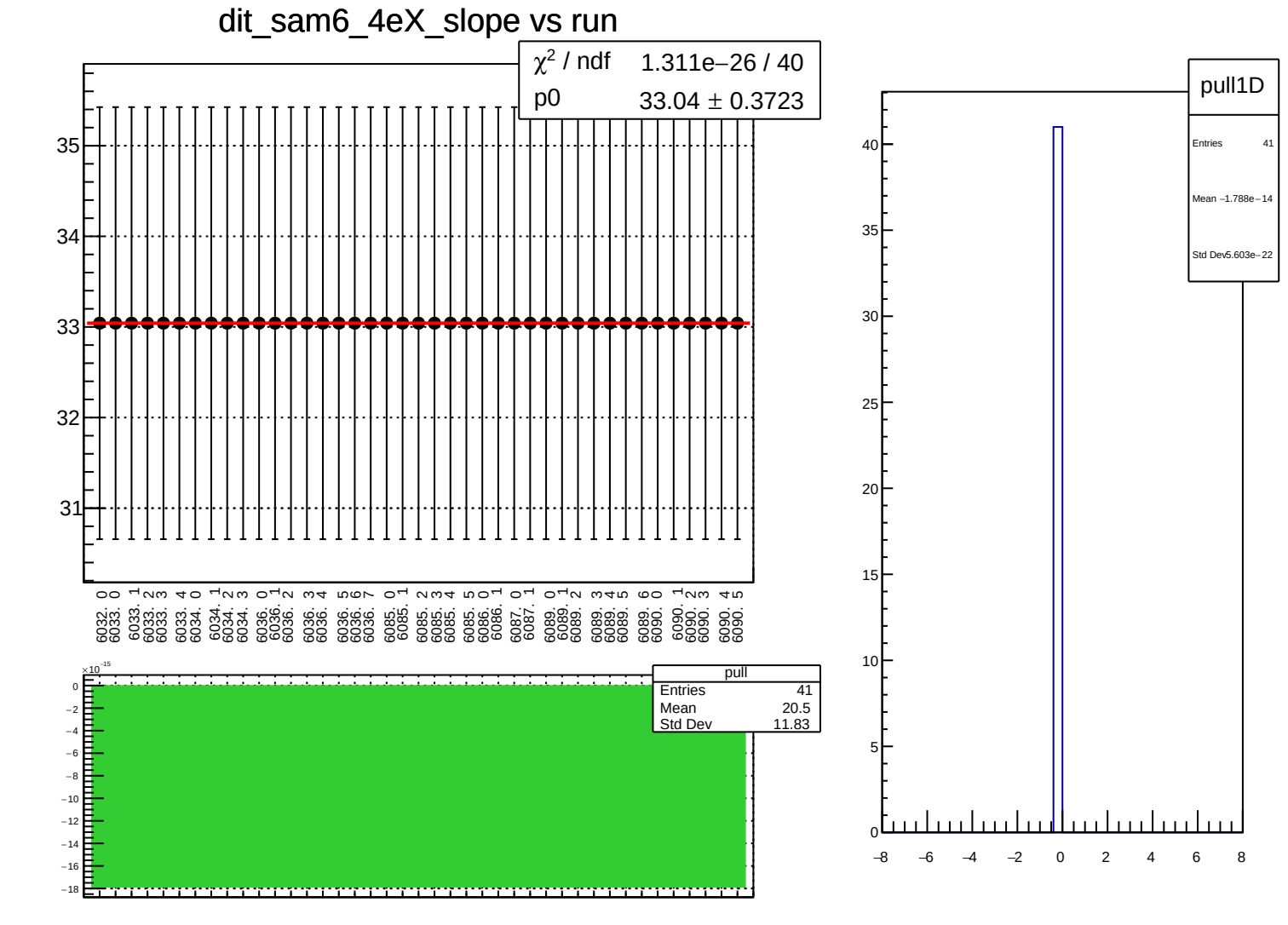

pull1D
Entries 41
Mean 1.647e−13
Std Dev5.868e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

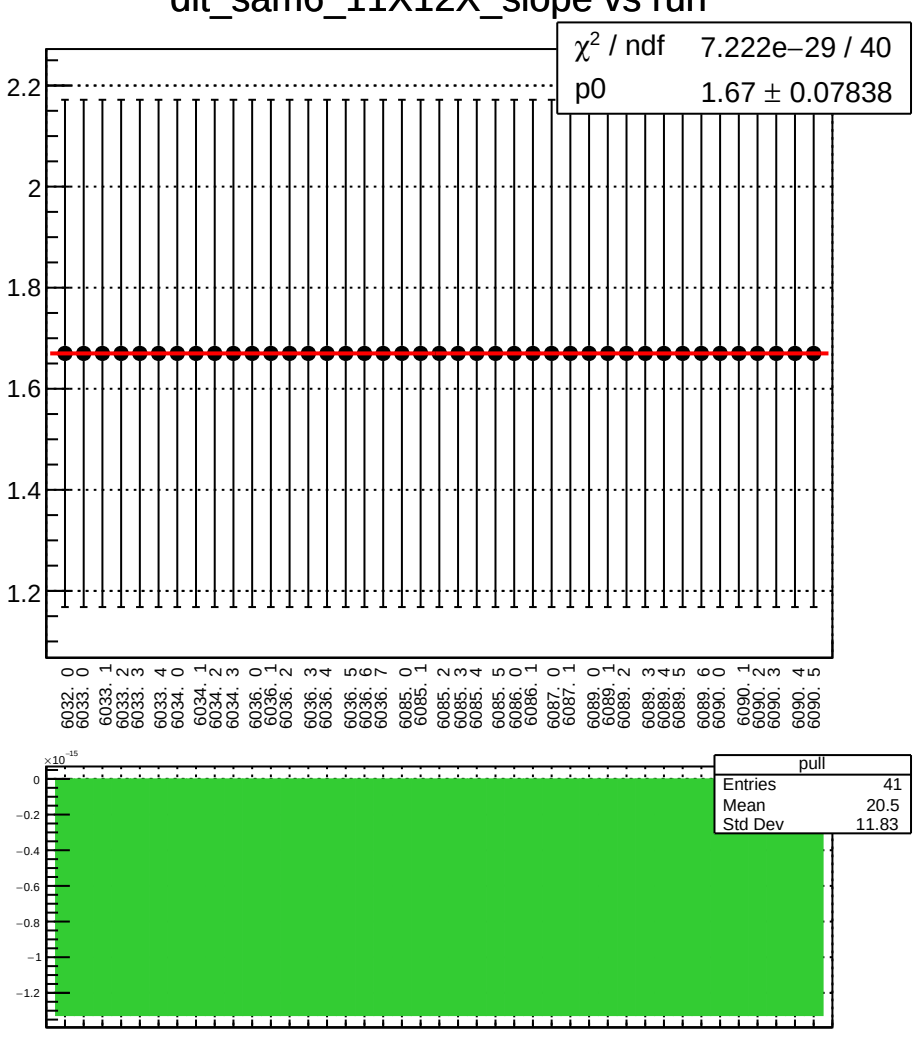

dit_sam5_4eY_slope vs run
χ^2 / ndf 5.996e−26 / 40
p0 124.1 ± 0.1161
124.8
124.6
124.4
124.2
124
123.8
123.6
123.4
123.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
40
35
30
25
20
15
10
5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

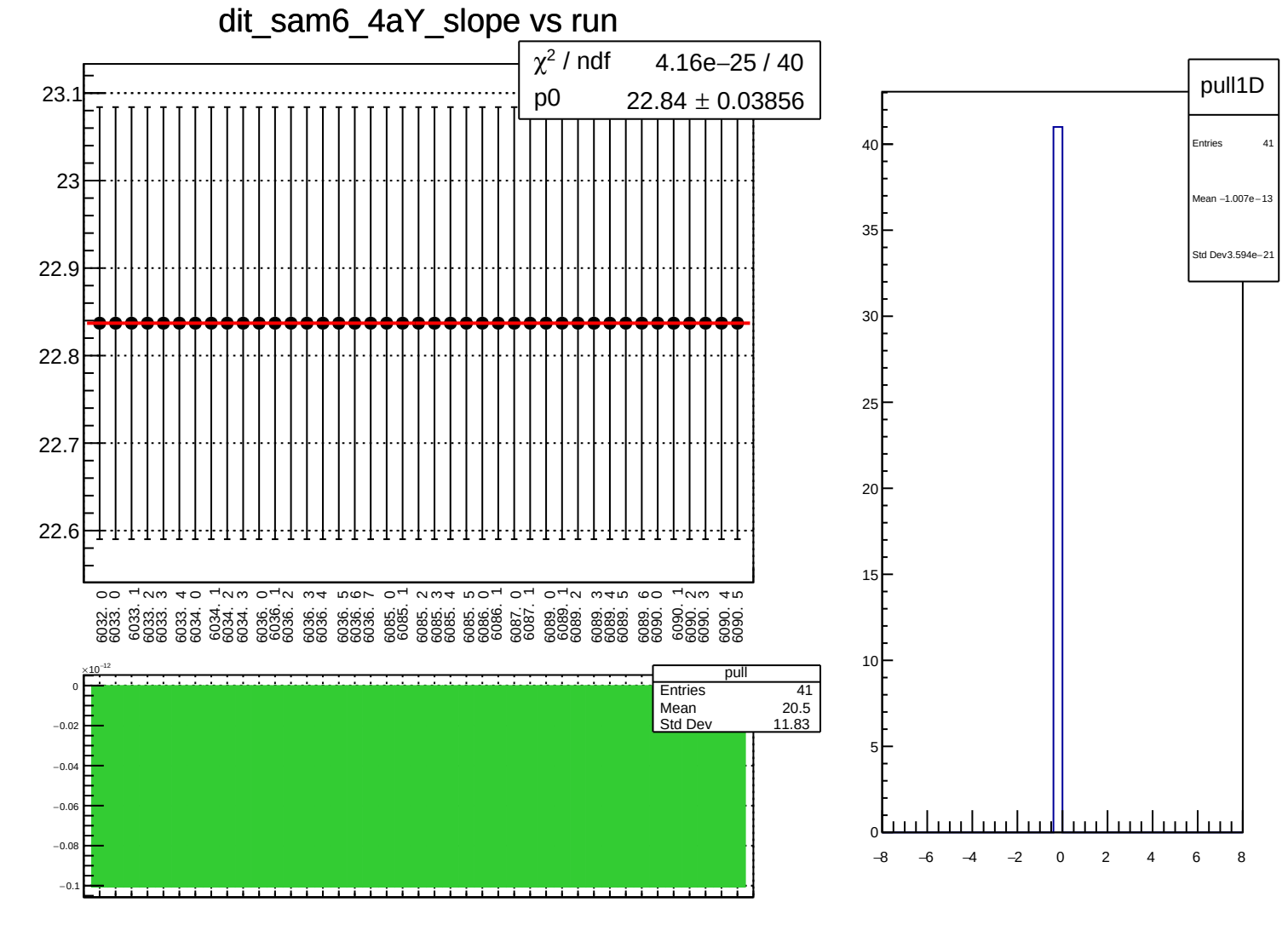

pull1D
Entries 41
Mean 3.824e−14
Std Dev1.746e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

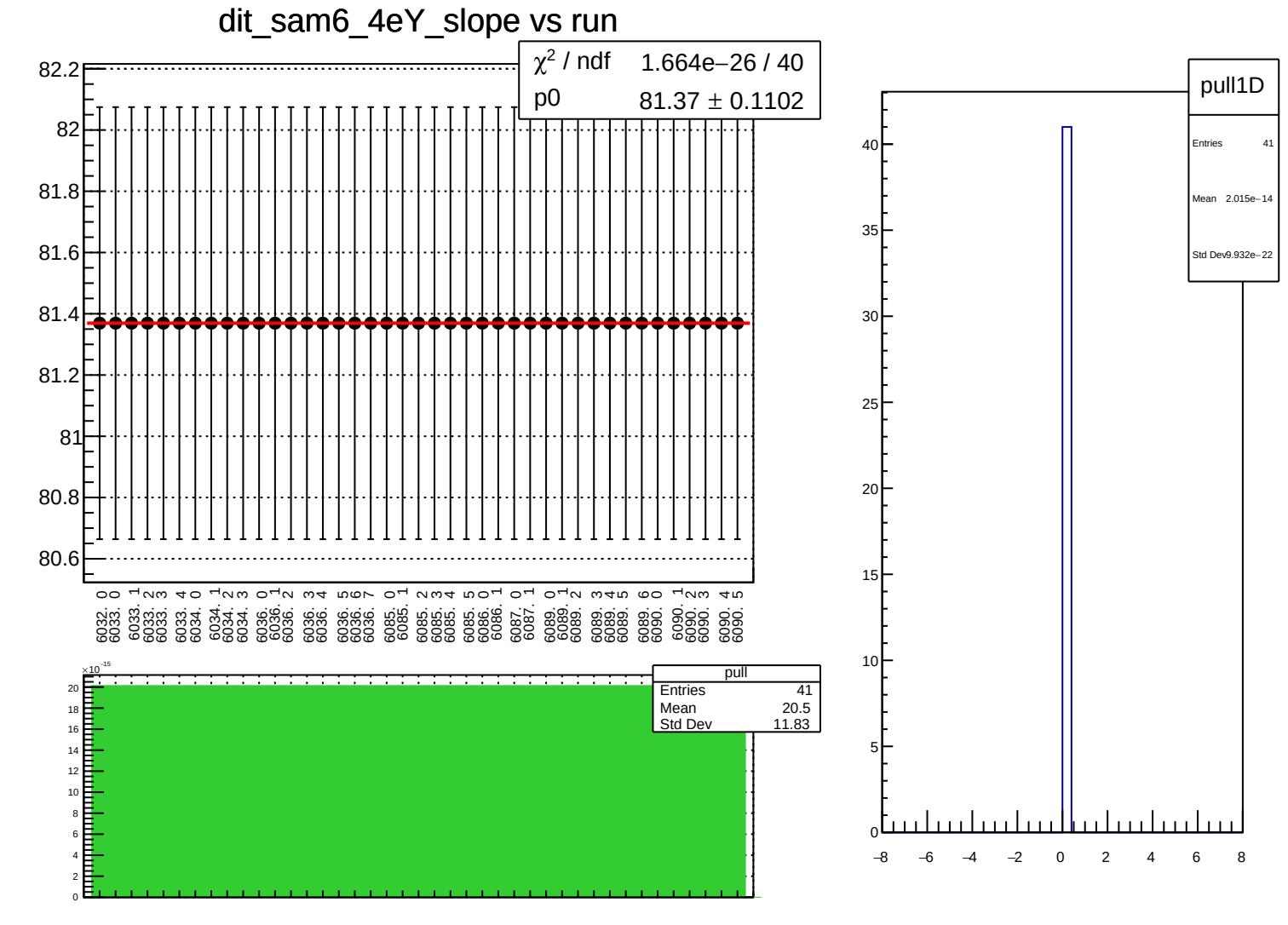

dit_sam6_4aX_slope vs run
χ² / ndf 5.771e−27 / 40
p0 23.16 ± 0.3741
pull
Entries 41
Mean 20.5
Std Dev 11.83

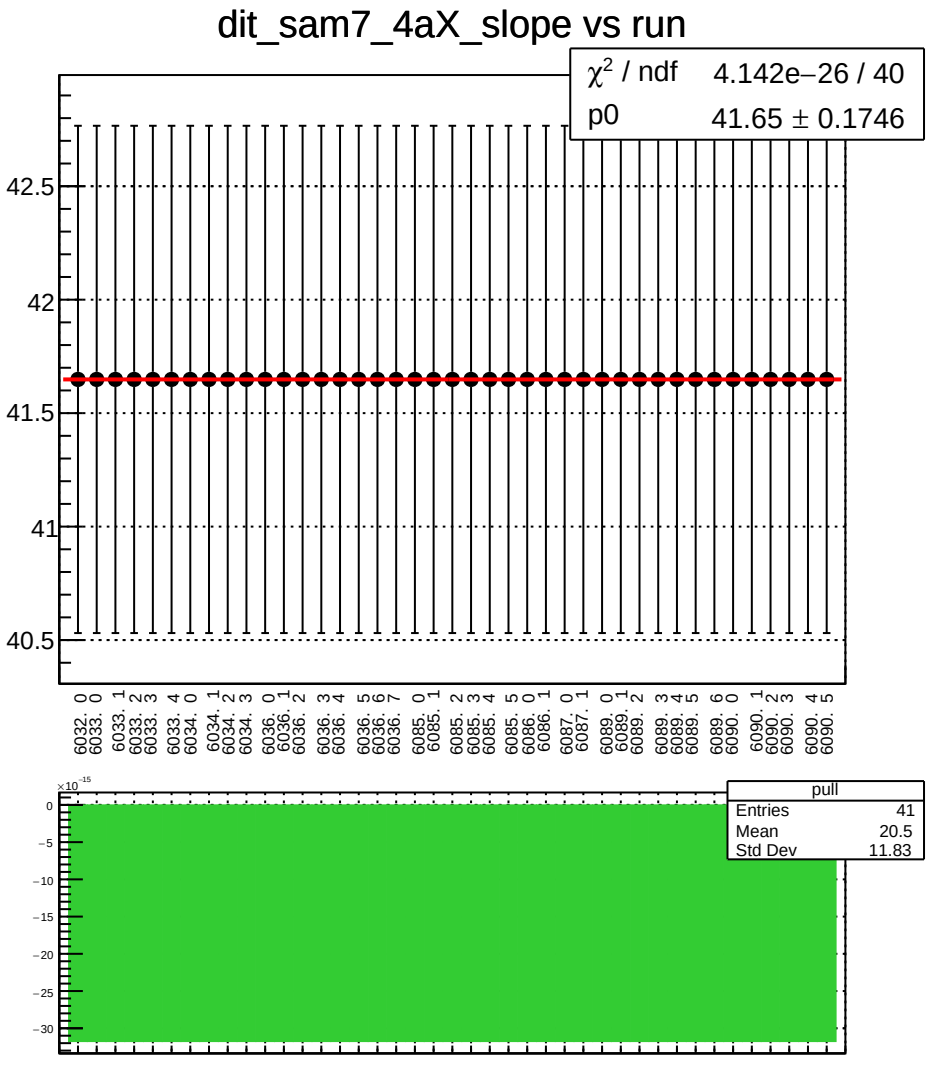

pull1D
Entries 41
Mean 1.186e−14
Std Dev 2.118e−22

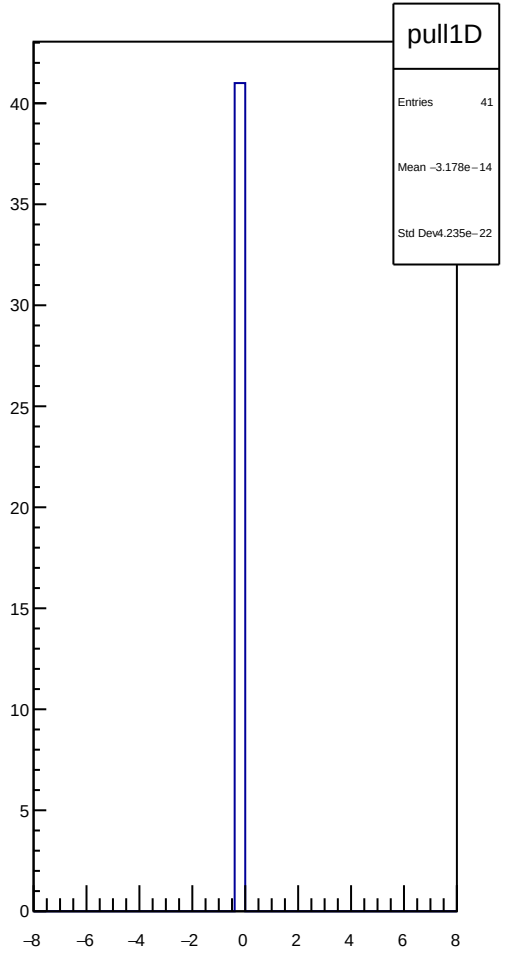

dit_sam6_4eX_slope vs run
χ² / ndf 1.311e−26 / 40
p0 33.04 ± 0.3723
35
34
33
32
31
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.788e−14
Std Dev5.603e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

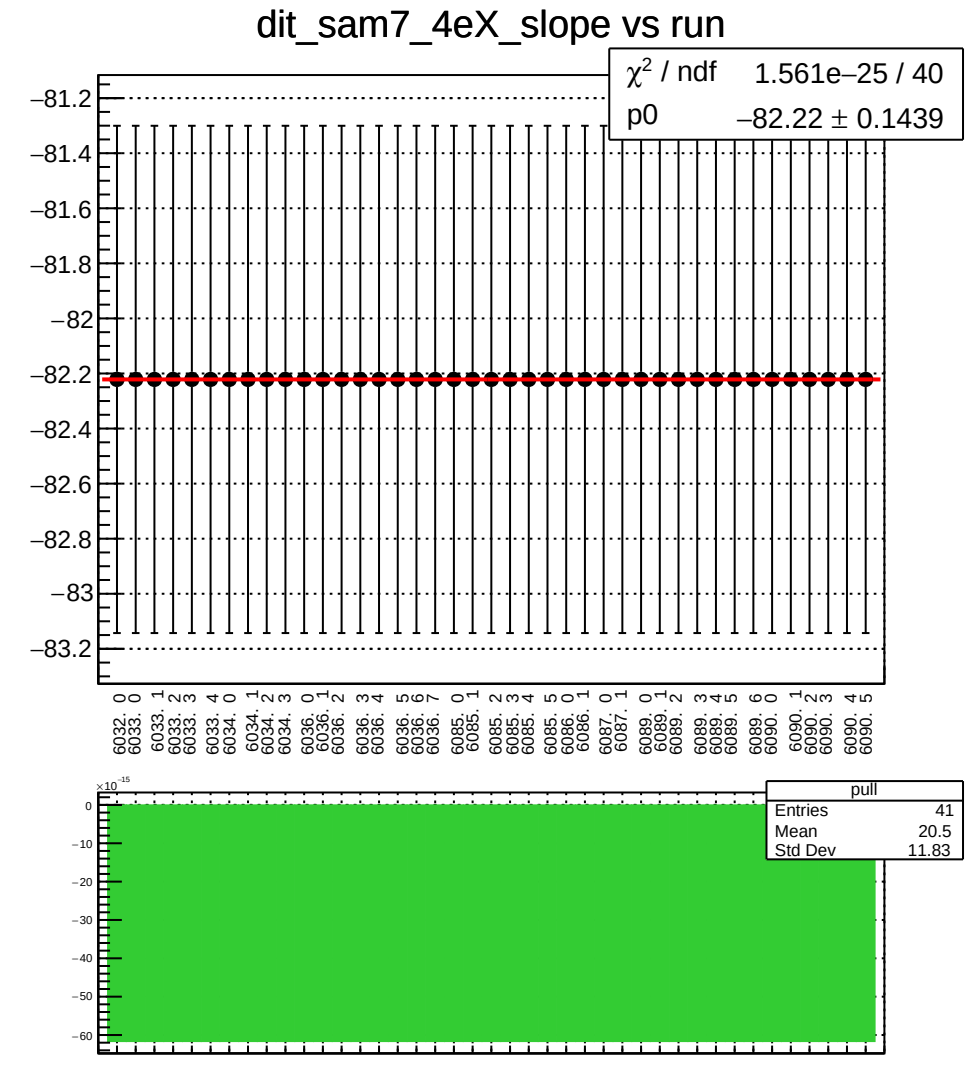

dit_sam6_11X12X_slope vs run
χ² / ndf 7.222e−29 / 40
p0 1.67 ± 0.07838
2.2
2
1.8
1.6
1.4
1.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.327e−15
Std Dev4.185e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

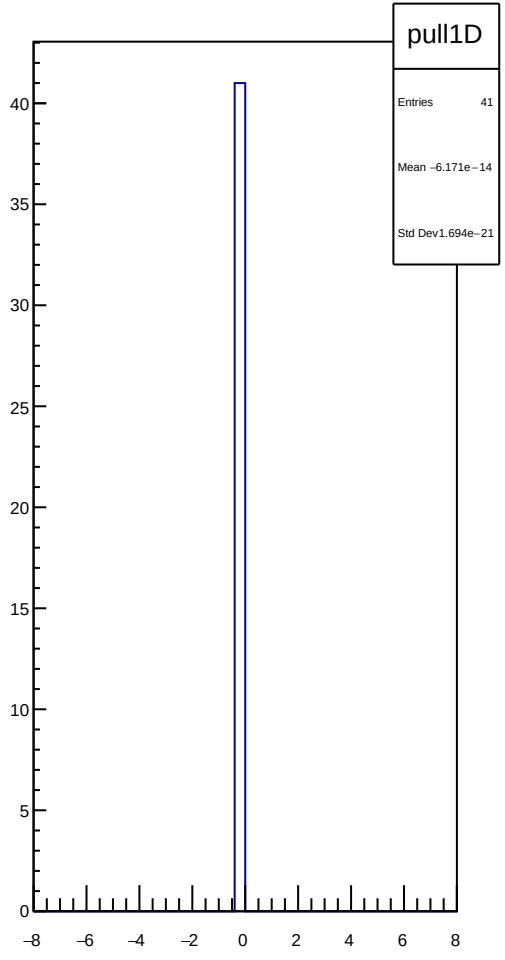

dit_sam6_4aY_slope vs run
χ² / ndf 4.16e−25 / 40
p0 22.84 ± 0.03856
23.1
23
22.9
22.8
22.7
22.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.007e−13
Std Dev3.594e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

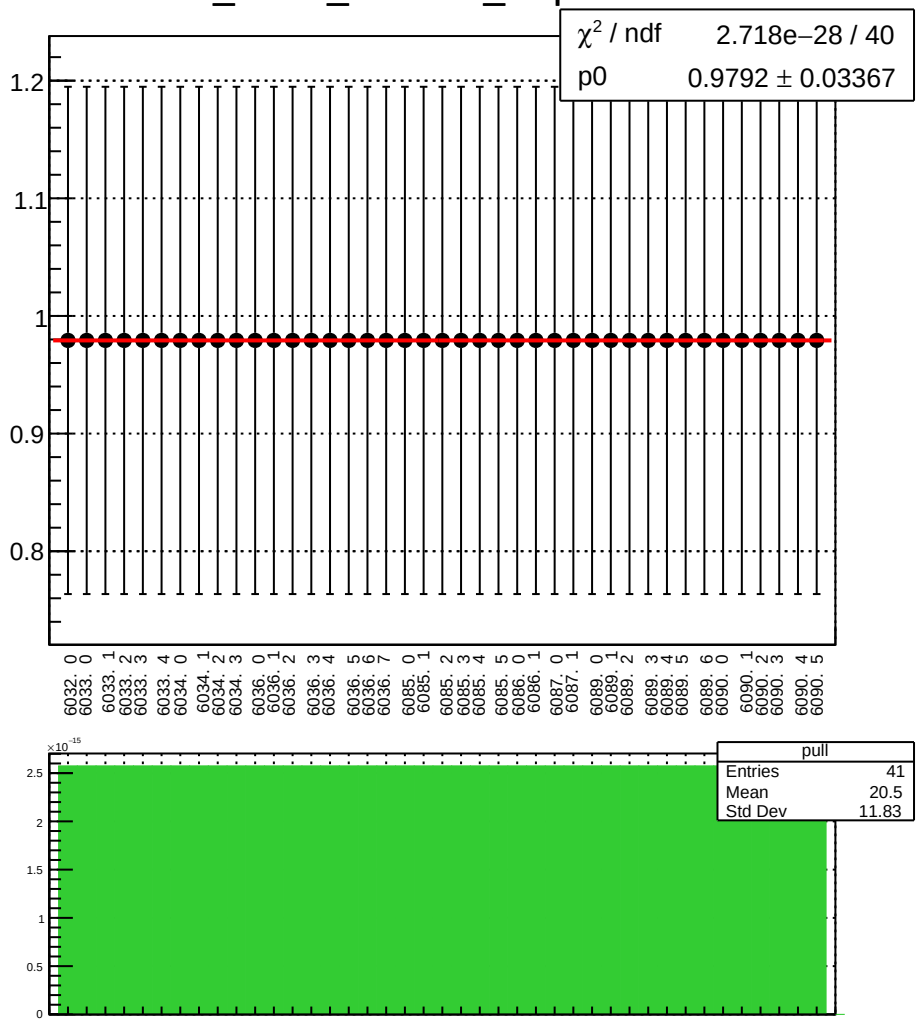

dit_sam6_4eY_slope vs run
χ² / ndf 1.664e−26 / 40
p0 81.37 ± 0.1102
82.2
82
81.8
81.6
81.4
81.2
81
80.8
80.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 2.015e−14
Std Dev 9.932e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

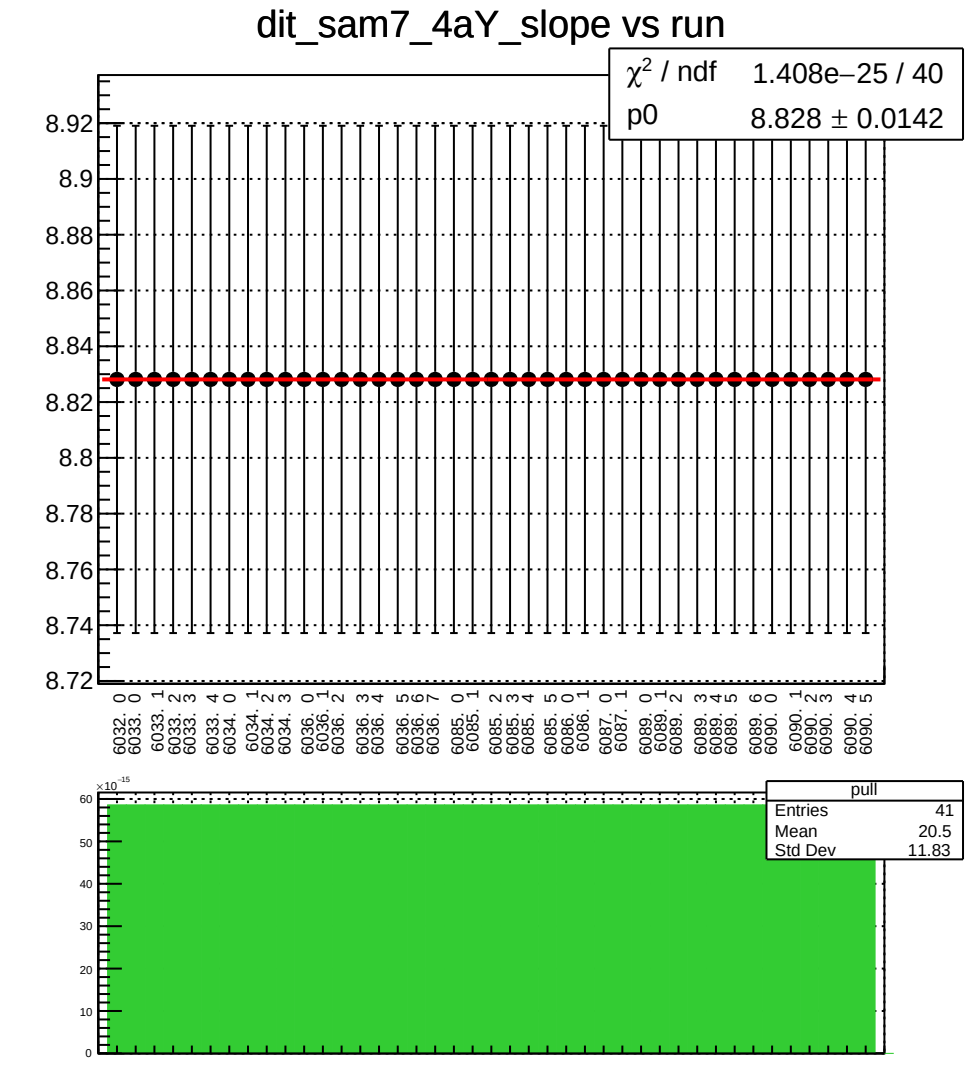

dit_sam7_4aX_slope vs run
χ² / ndf 4.142e−26 / 40
p0 41.65 ± 0.1746
42.5
42
41.5
41
40.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull
Entries 41
Mean 20.5
Std Dev 11.83

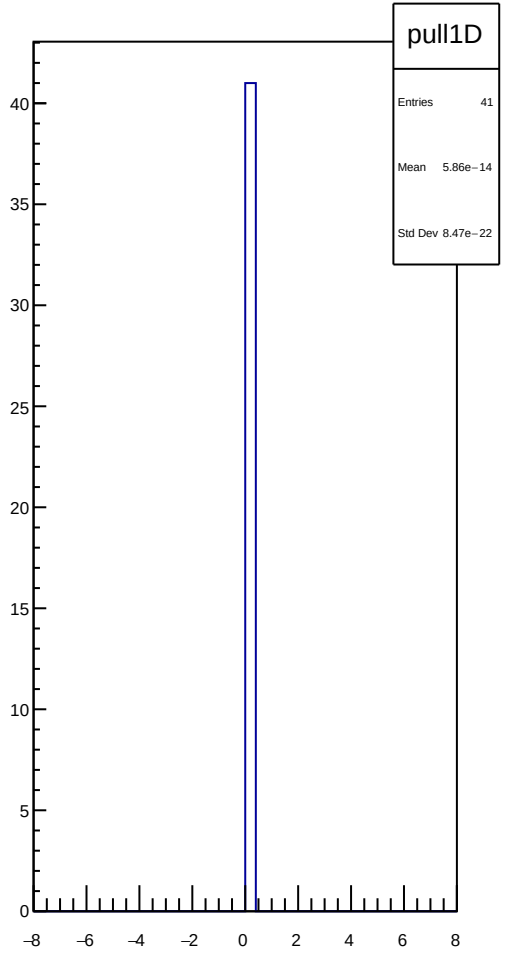

pull1D
Entries 41
Mean −3.178e−14
Std Dev4.235e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

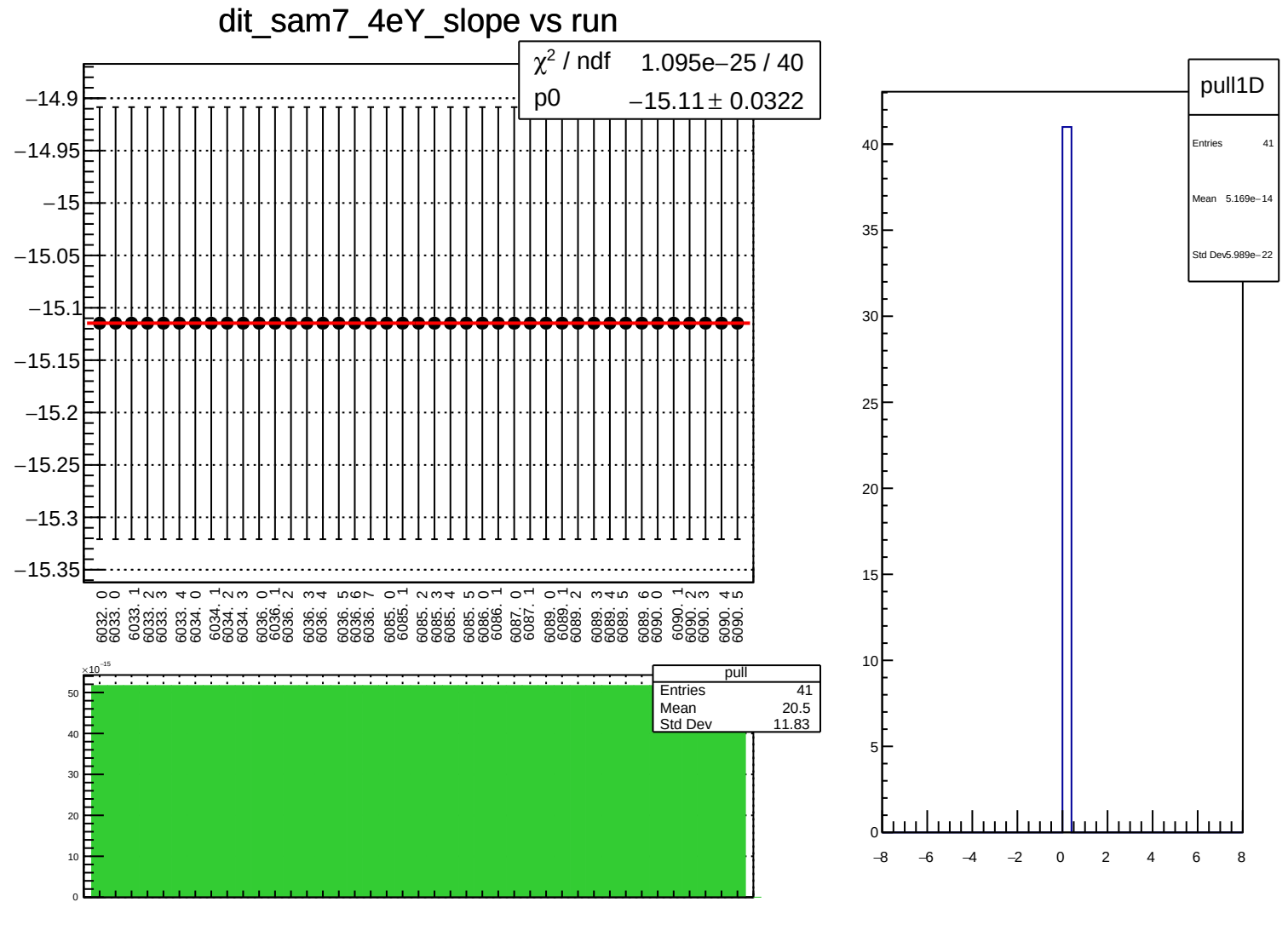

dit_sam7_4eX_slope vs run
χ² / ndf 1.561e−25 / 40
p0 −82.22 ± 0.1439
−81.2
−81.4
−81.6
−81.8
−82
−82.2
−82.4
−82.6
−82.8
−83
−83.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull
Entries 41
Mean 20.5
Std Dev 11.83

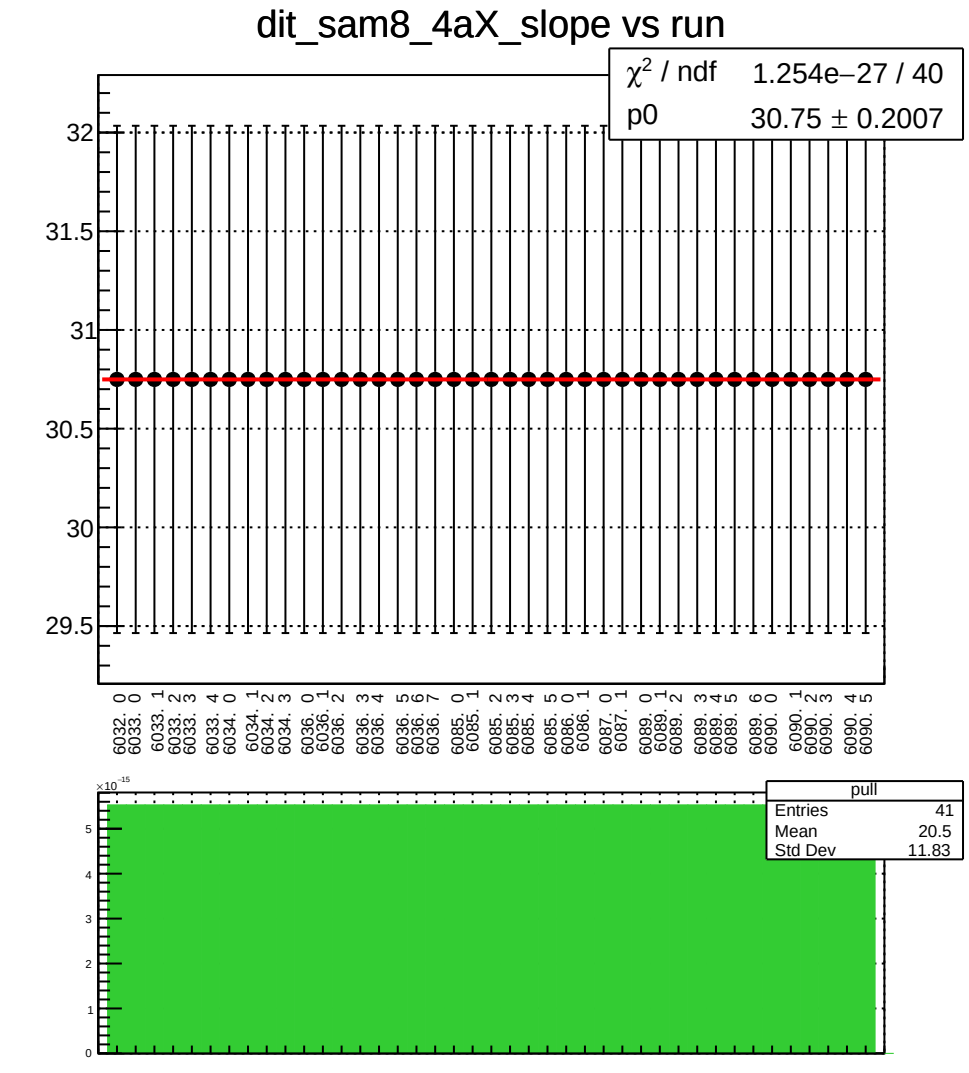

pull1D
Entries 41
Mean −6.171e−14
Std Dev1.694e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

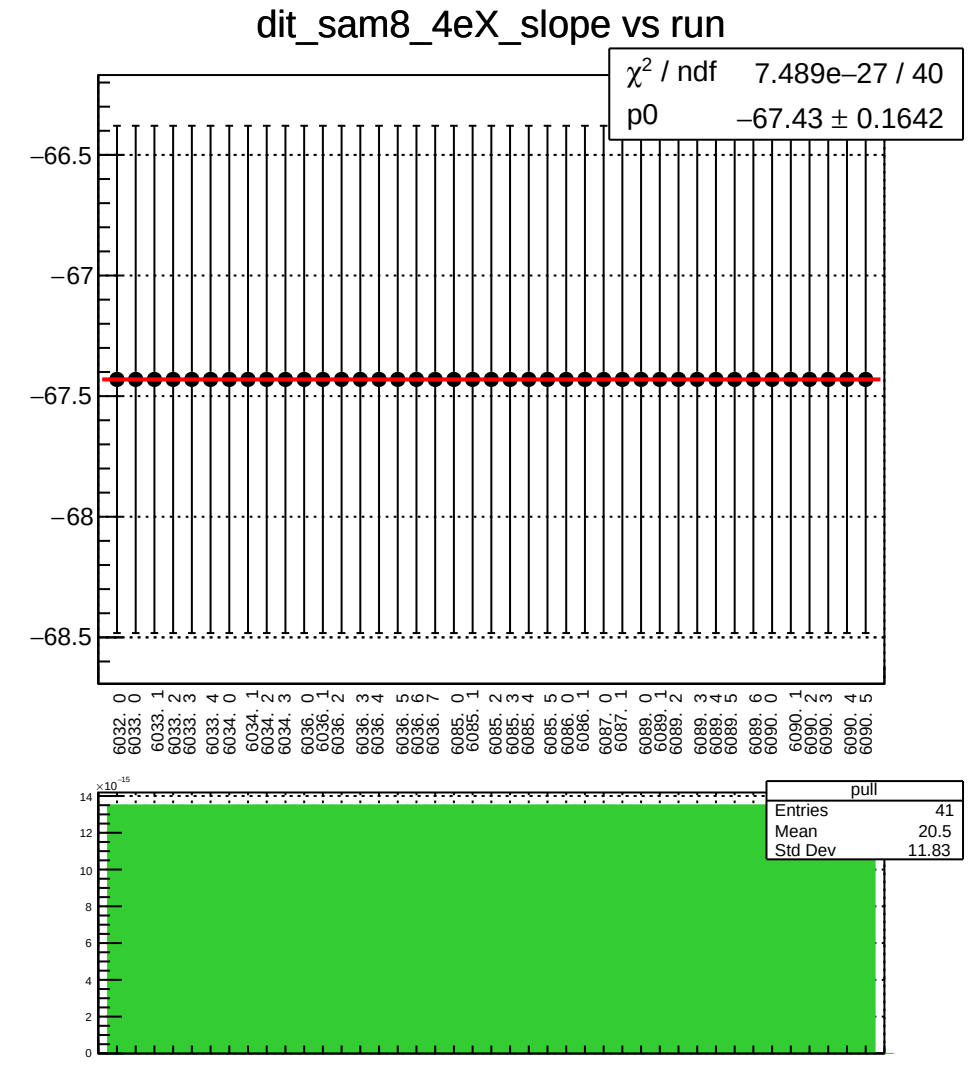

dit_sam7_11X12X_slope vs run
χ² / ndf 2.718e−28 / 40
p0 0.9792 ± 0.03367
1.2
1.1
1
0.9
0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 2.575e−15
Std Dev1.184e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4aY_slope vs run
χ² / ndf 1.408e−25 / 40
p0 8.828 ± 0.0142
8.92
8.9
8.88
8.86
8.84
8.82
8.8
8.78
8.76
8.74
8.72
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
60
50
40
30
20
10
0
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean 5.86e−14
Std Dev 8.47e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4eY_slope vs run
χ² / ndf 1.095e−25 / 40
p0 −15.11 ± 0.0322
−14.9
−14.95
−15
−15.05
−15.1
−15.15
−15.2
−15.25
−15.3
−15.35
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 5.169e−14
Std Dev 5.989e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aX_slope vs run
χ² / ndf 1.254e−27 / 40
p0 30.75 ± 0.2007
32
31.5
31
30.5
30
29.5
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 5.53e−15
Std Dev 2.9e−22


dit_sam8_4eX_slope vs run
χ² / ndf 7.489e−27 / 40
p0 −67.43 ± 0.1642
−66.5
−67
−67.5
−68
−68.5
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 1.352e−14
Std Dev 2.593e−22
40
35
30
25
20
15
10
5
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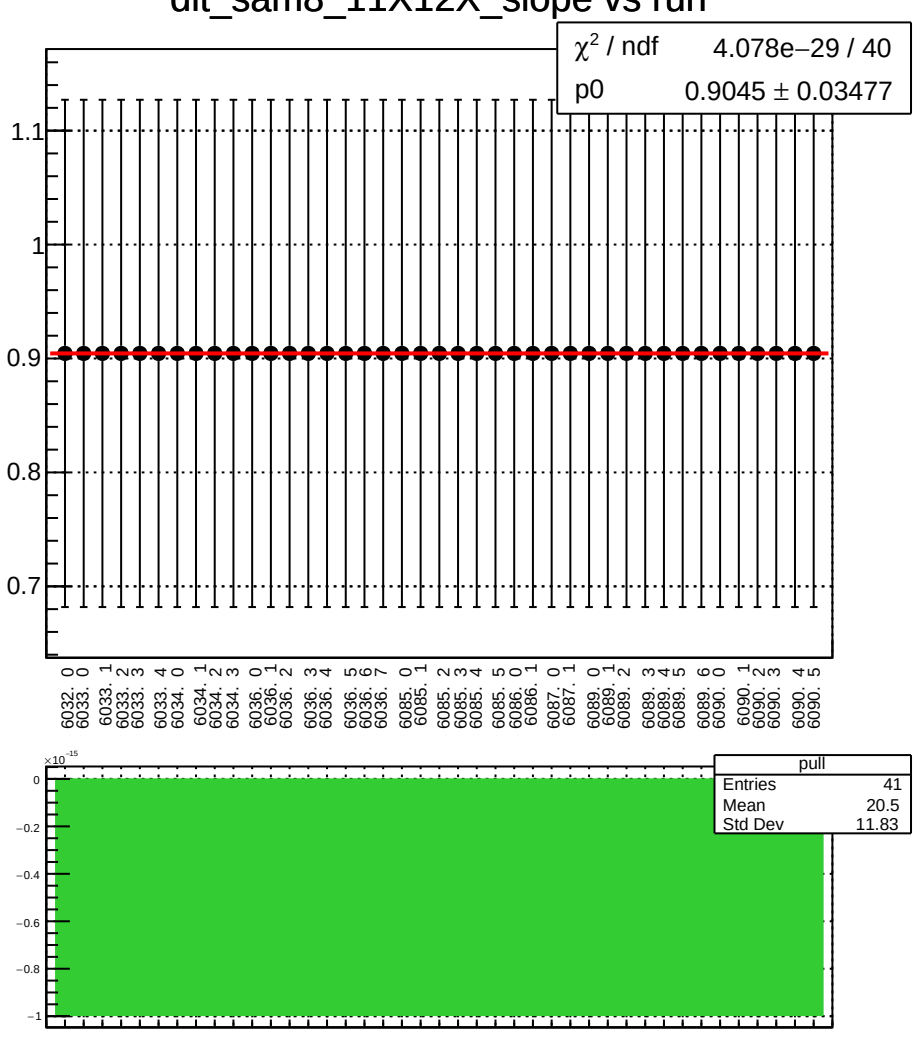
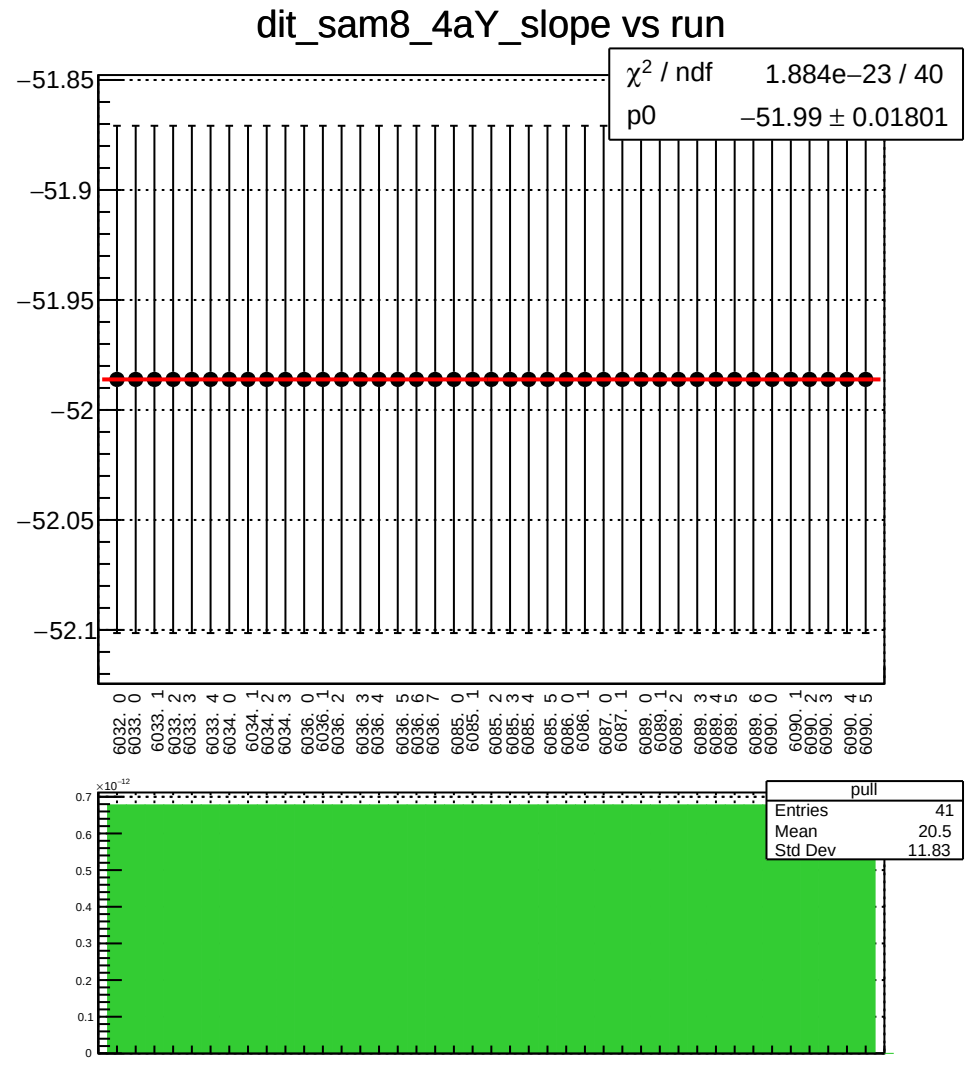
−6
−4
−2
0
2
4
6
8


dit_sam8_11X12X_slope vs run
χ² / ndf 4.078e−29 / 40
p0 0.9045 ± 0.03477
1.1
1
0.9
0.8
0.7
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −9.973e−16
Std Dev 2.292e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aY_slope vs run
χ² / ndf 1.884e−23 / 40
p0 −51.99 ± 0.01801
−51.85
−51.9
−51.95
−52
−52.05
−52.1
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 6.779e−13
Std Dev1.917e−20
40
35
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25
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15
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5
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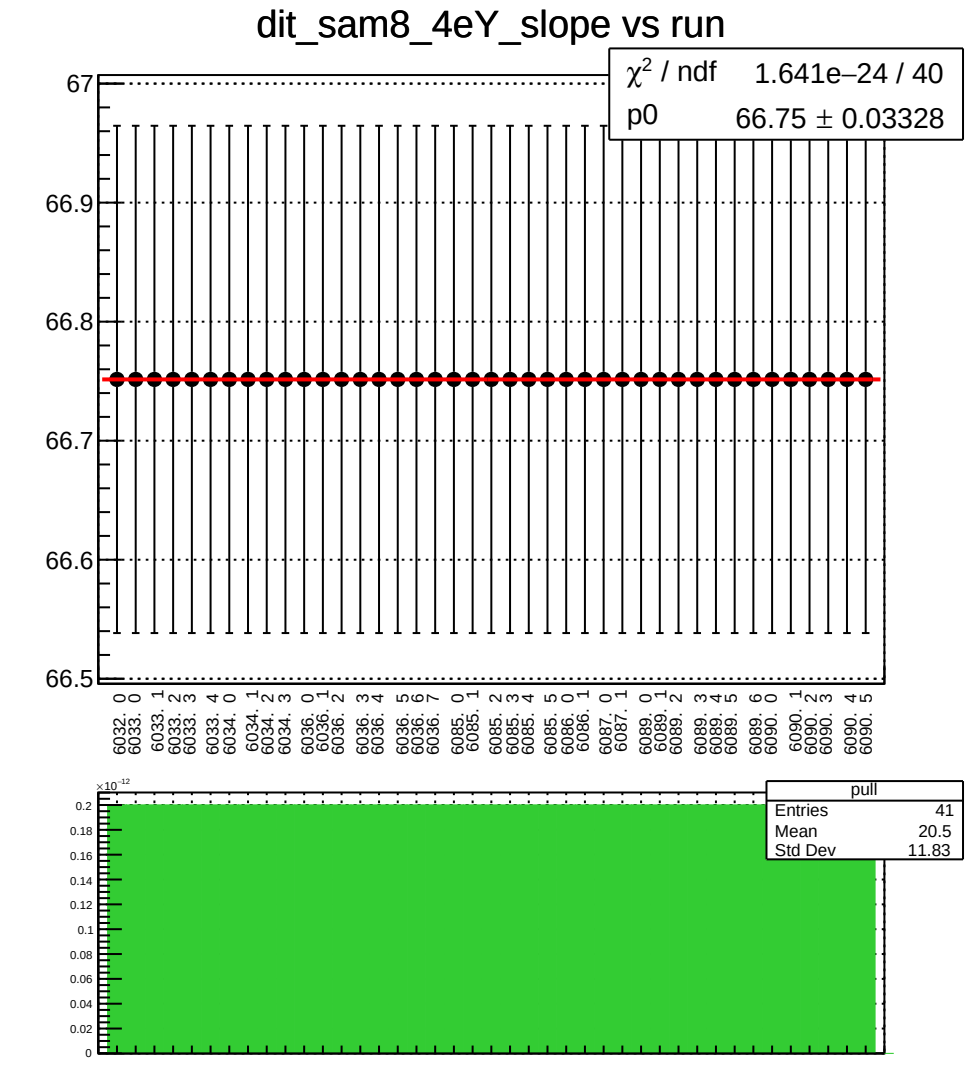
dit_sam8_4eY_slope vs run
χ² / ndf 1.641e−24 / 40
p0 66.75 ± 0.03328
67
66.9
66.8
66.7
66.6
66.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
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6085. 4
6085. 5
6086. 0
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6087. 0
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6089. 0
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6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.2
0.18
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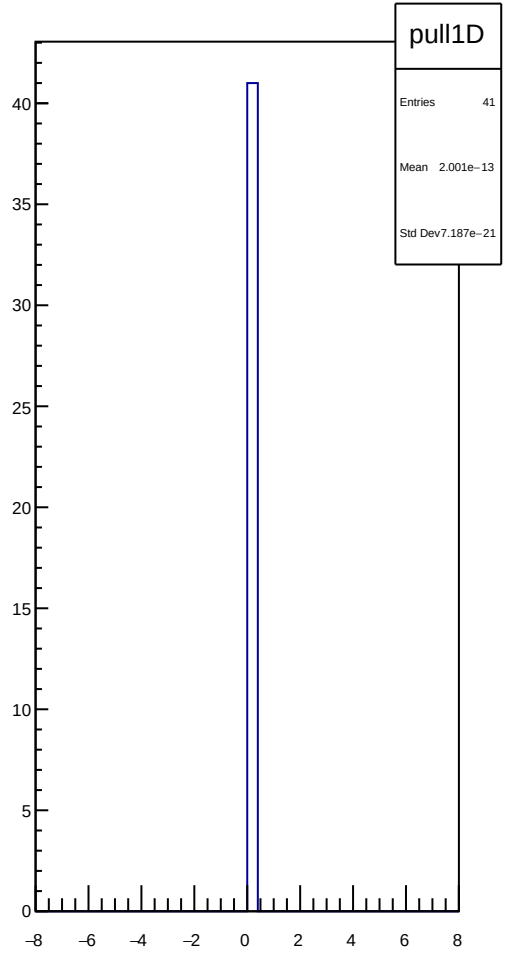
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean 2.001e−13
Std Dev7.187e−21
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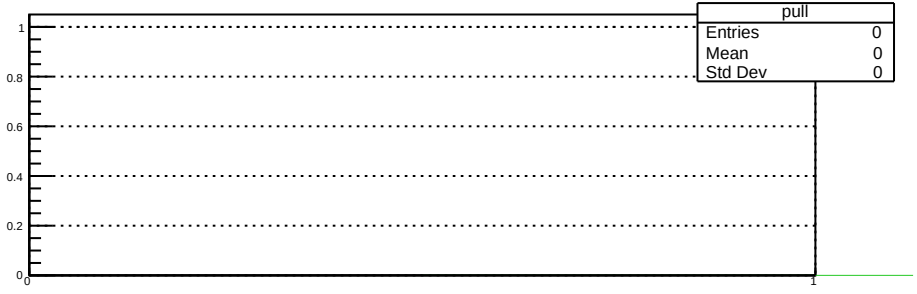
6
8


pull
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Std Dev 0
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0.6
0.4
0.2
0
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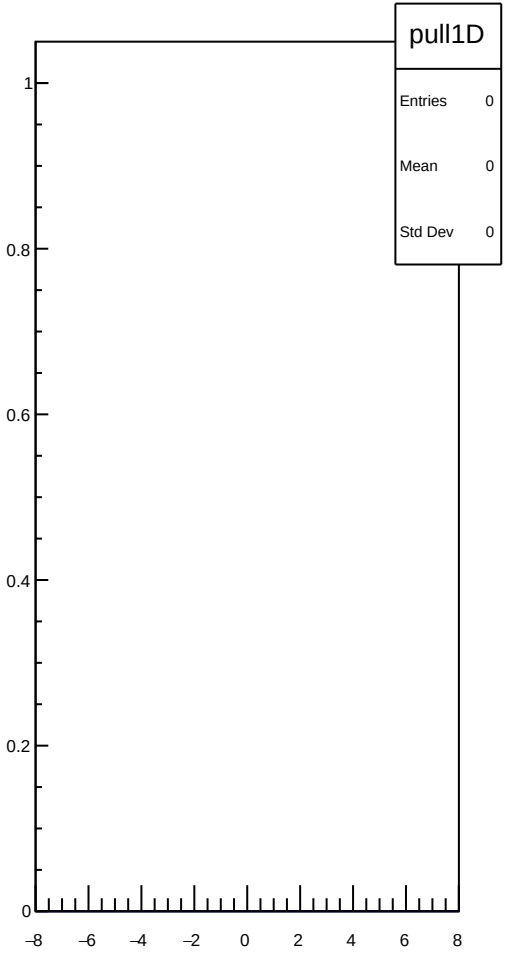
1


pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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6
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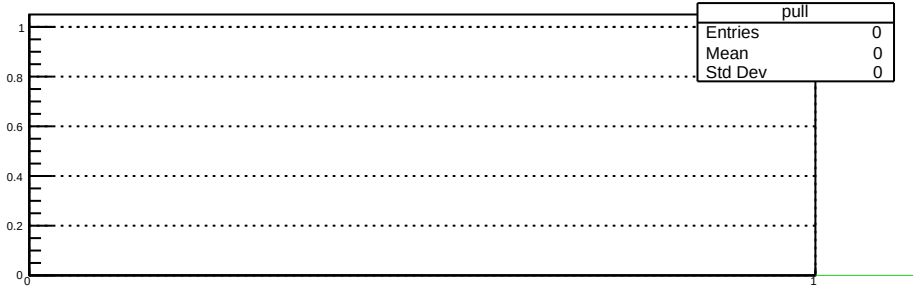
pull
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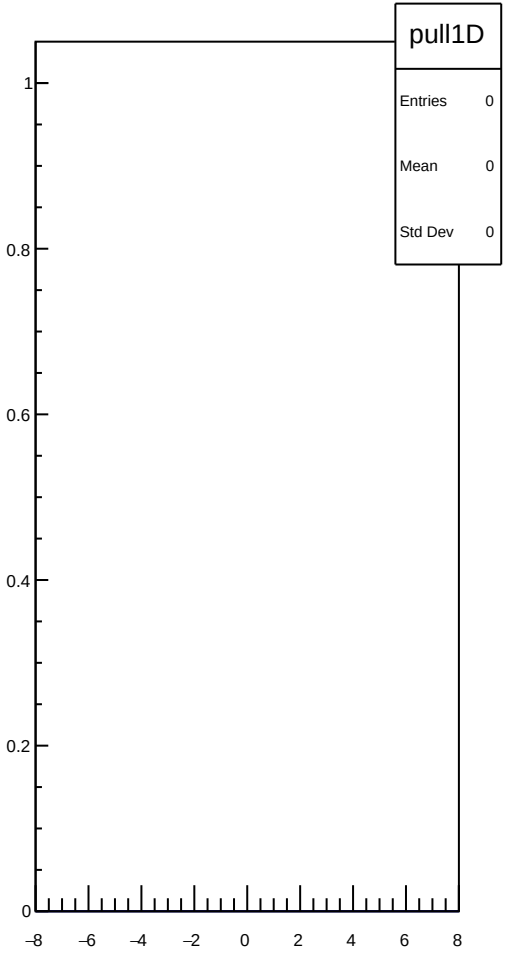
pull1D
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Std Dev 0
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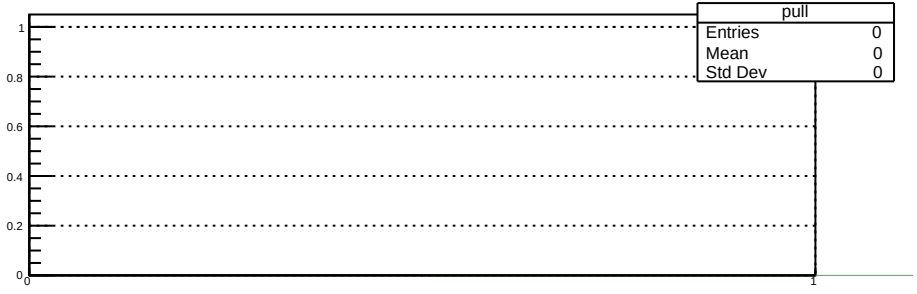
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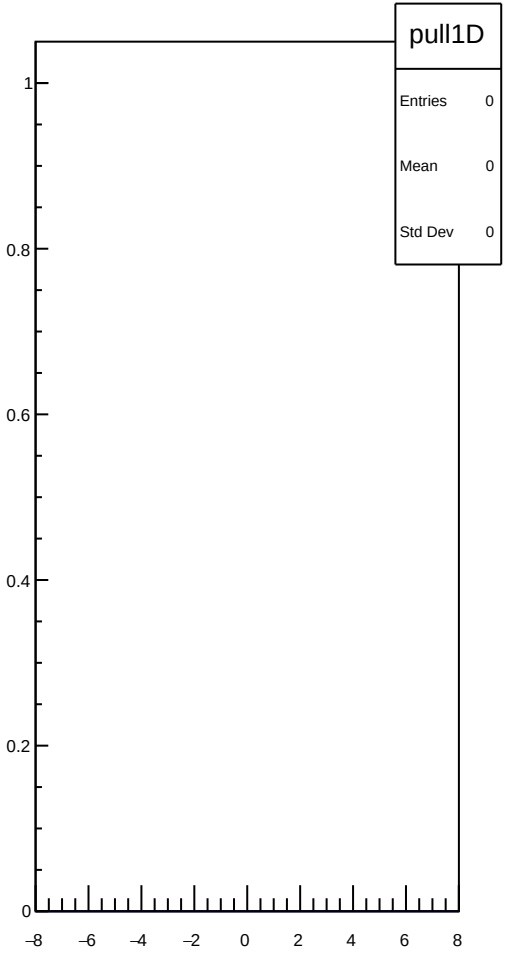
pull1D
Entries 0
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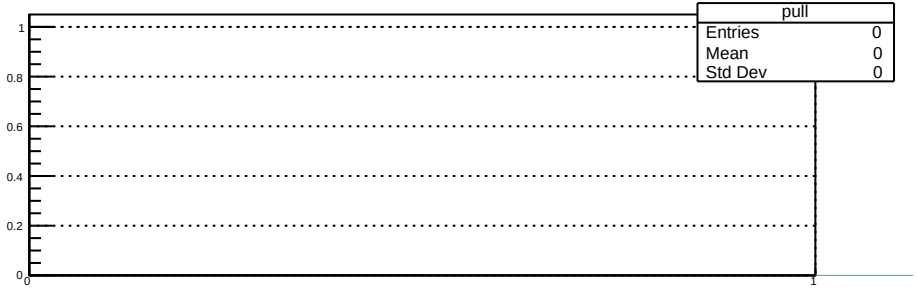
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Std Dev 0
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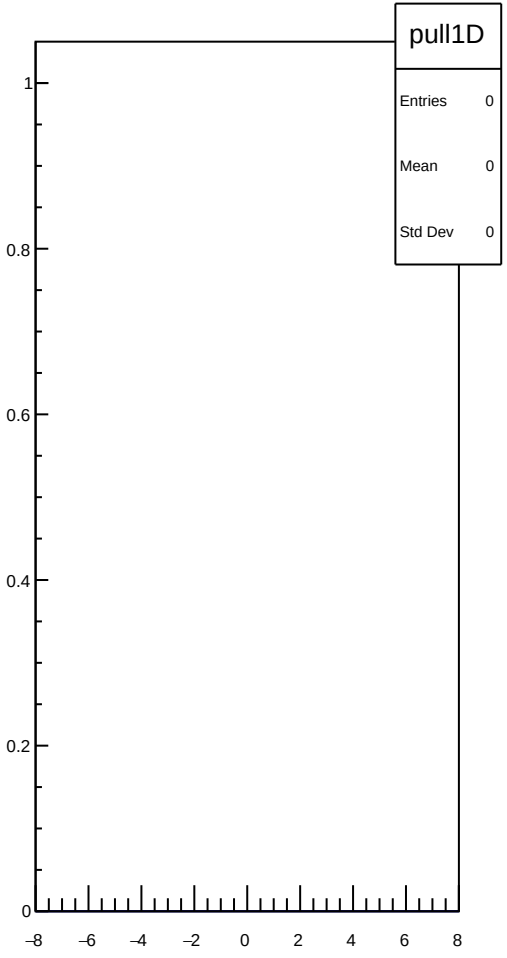
pull1D
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Std Dev 0
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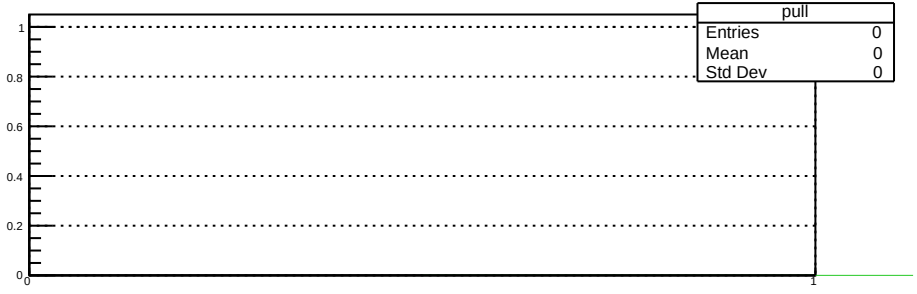
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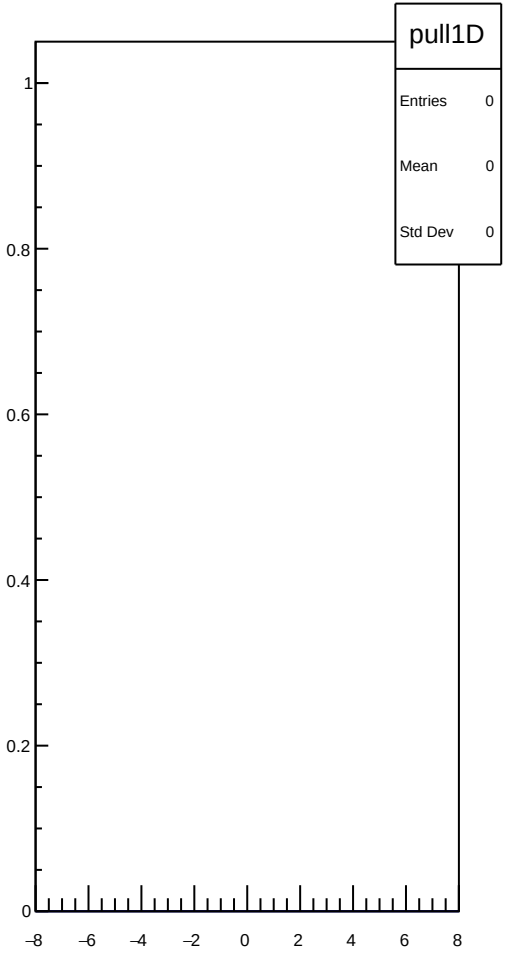
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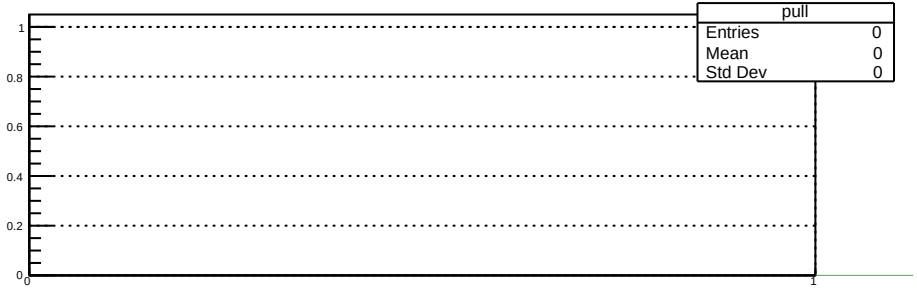
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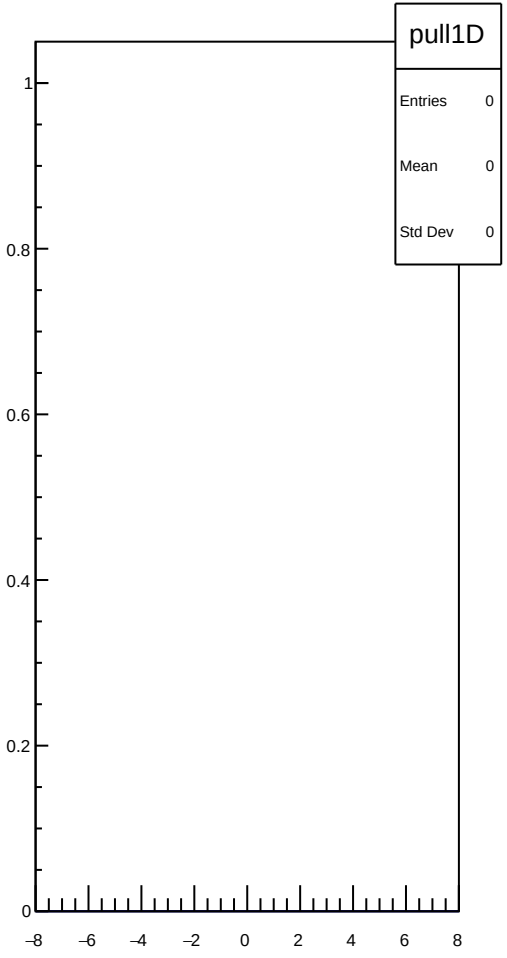
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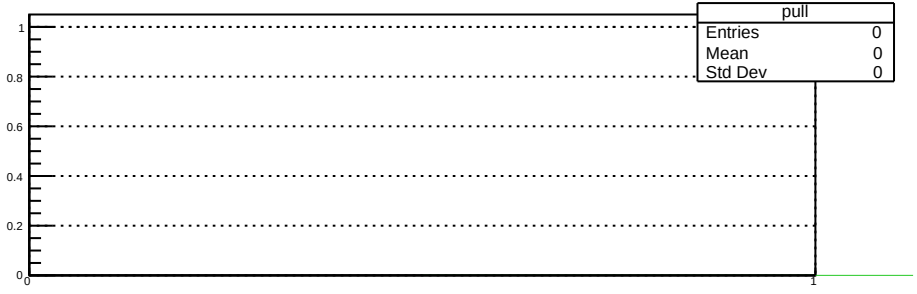
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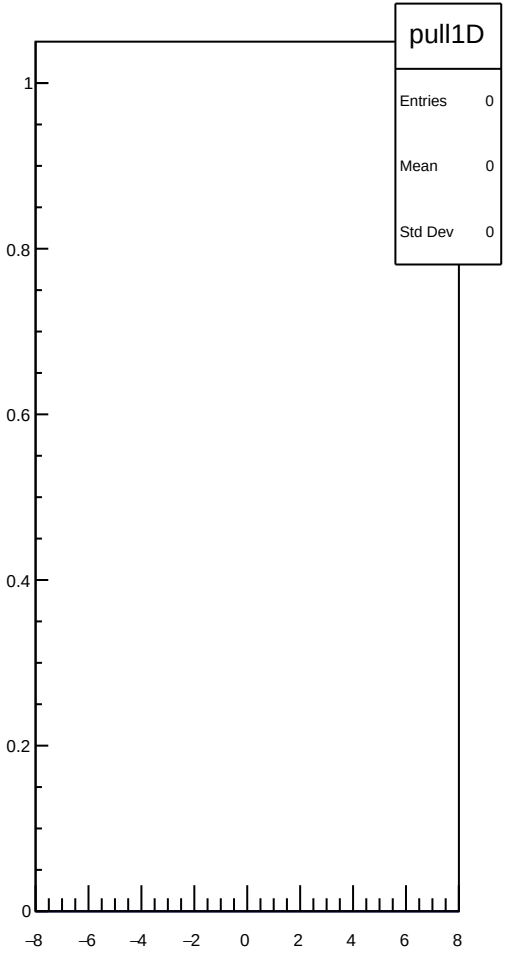
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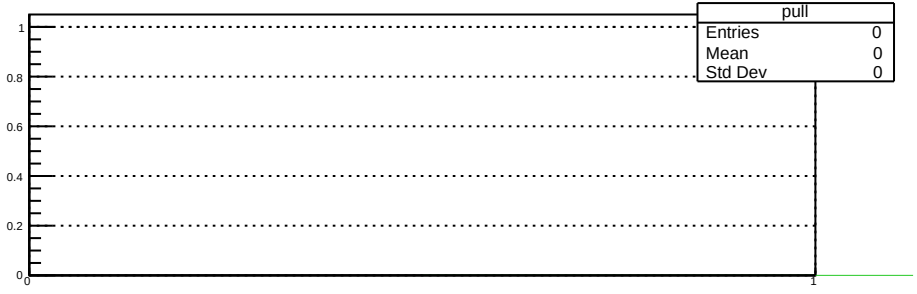
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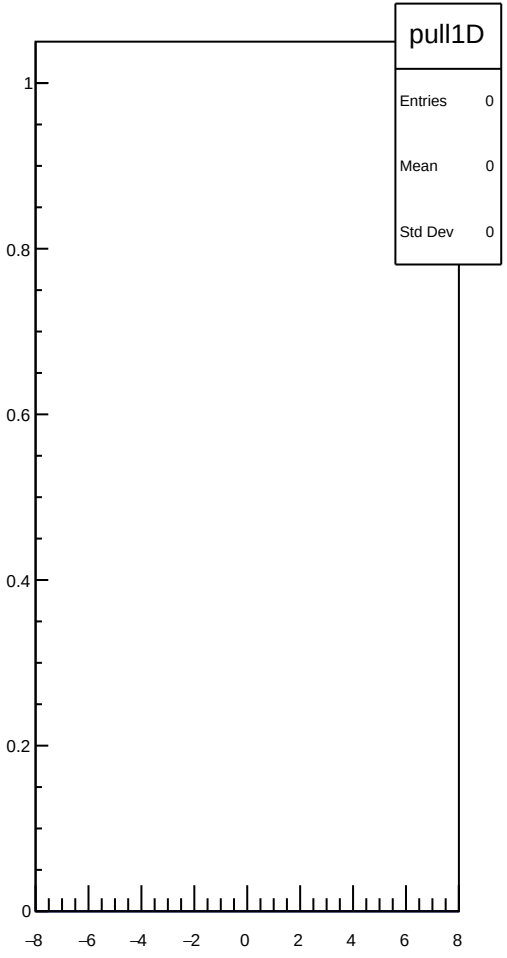
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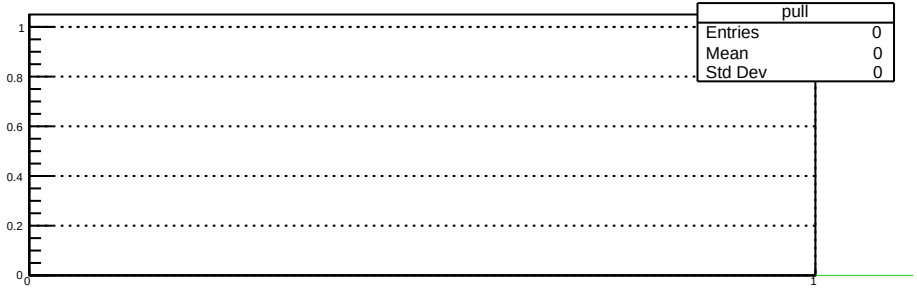
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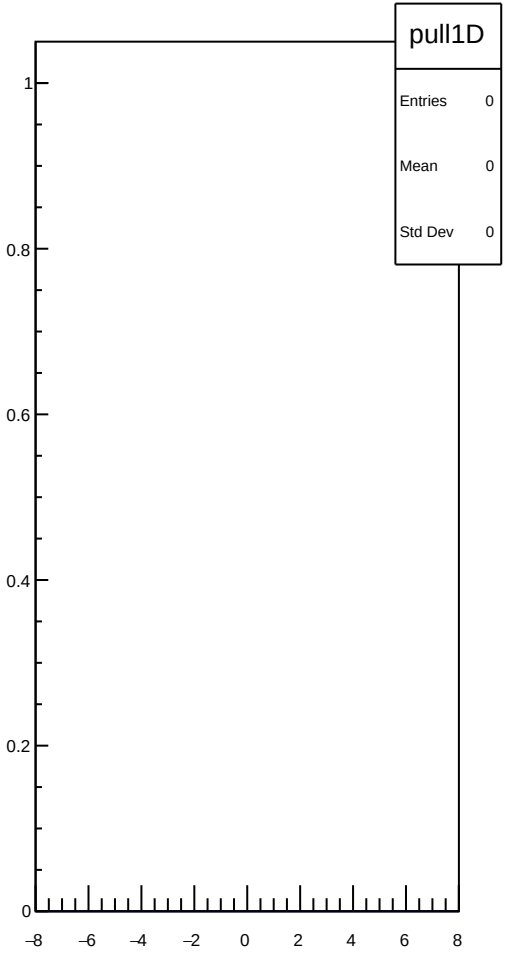
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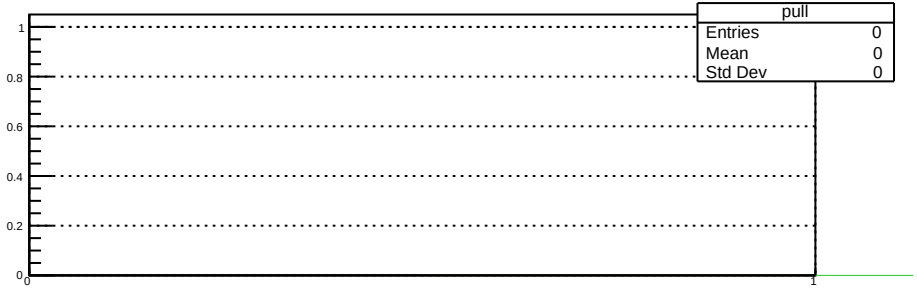
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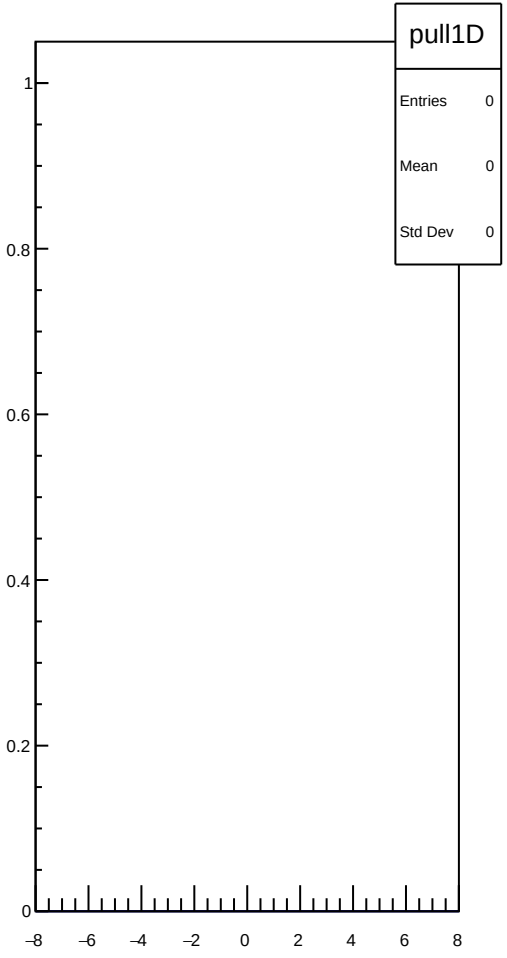
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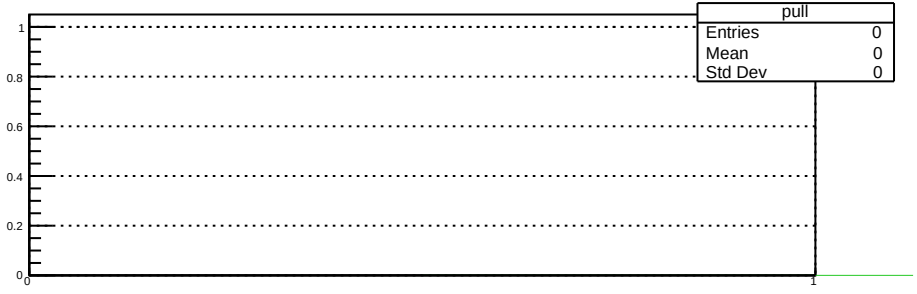
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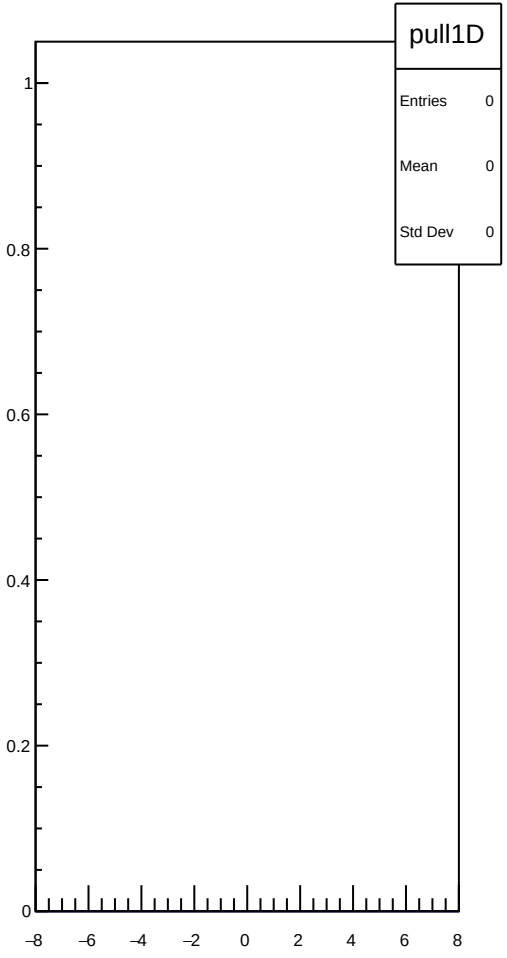
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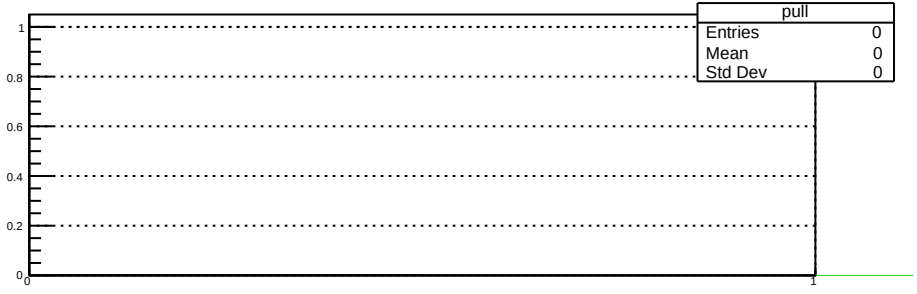
pull
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Std Dev 0
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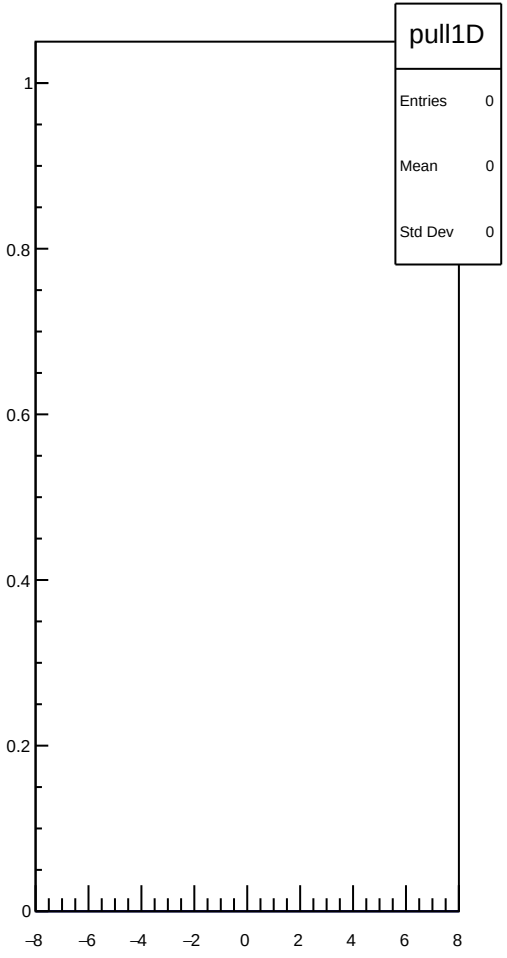
pull1D
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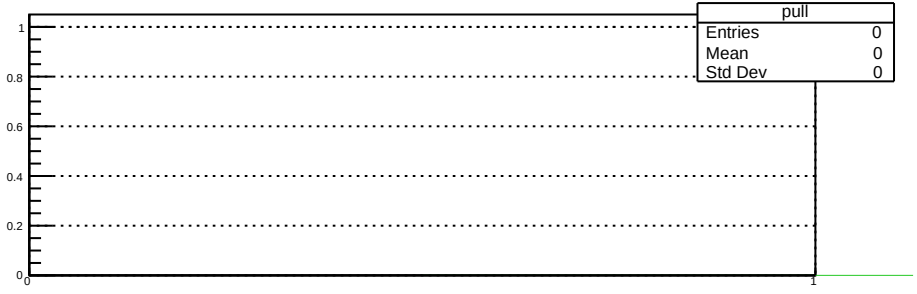
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Std Dev 0
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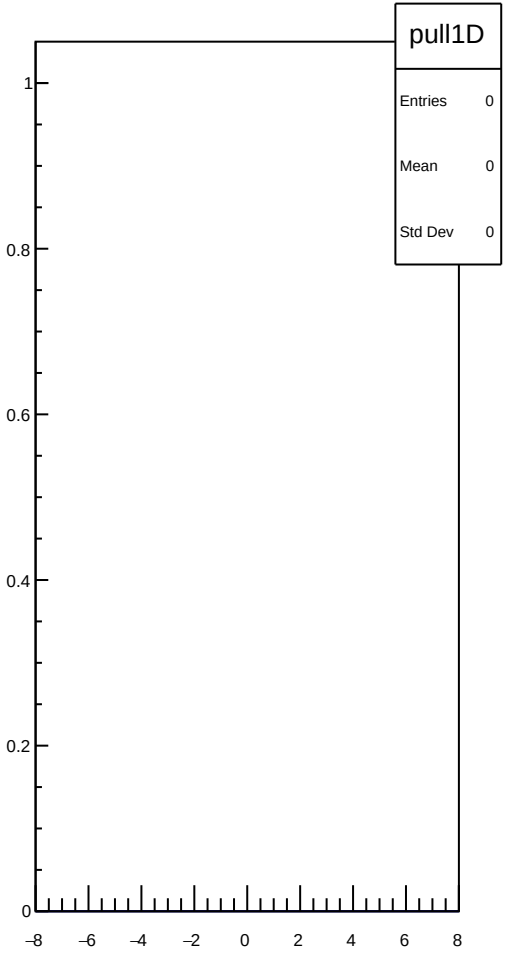
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Std Dev 0
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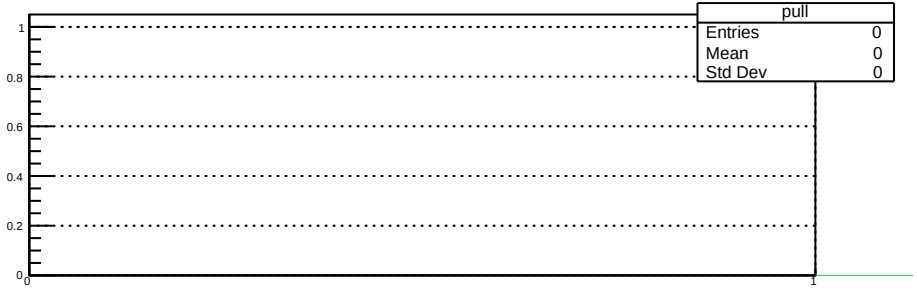
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Std Dev 0
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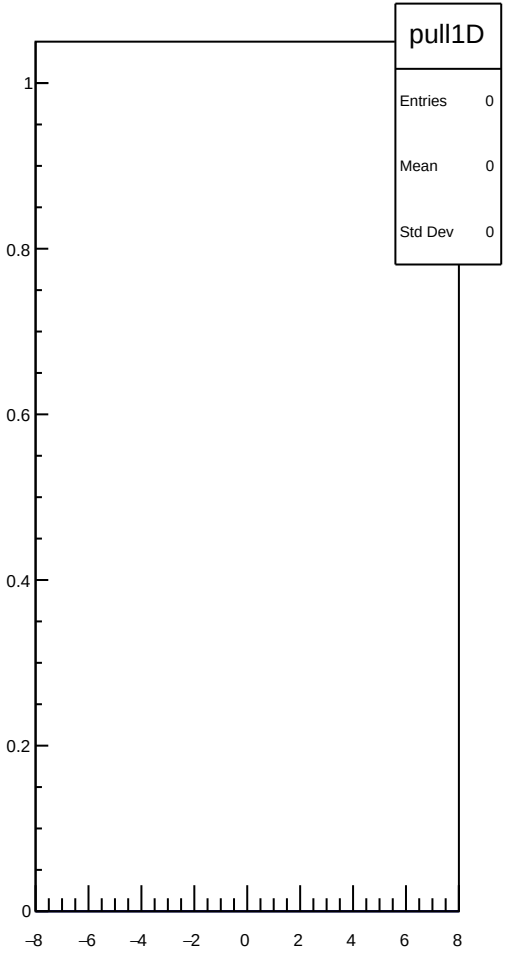
pull1D
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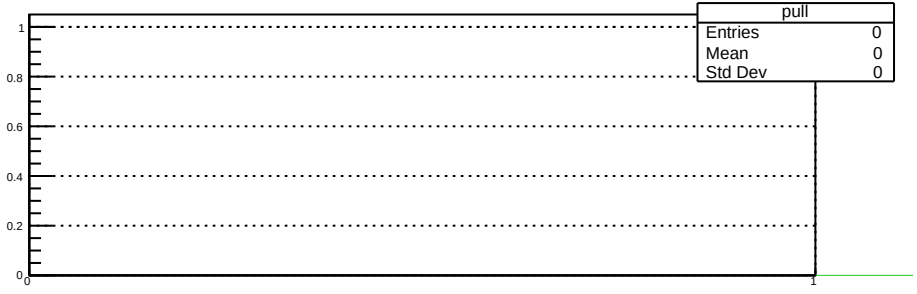
pull
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Std Dev 0
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0.6
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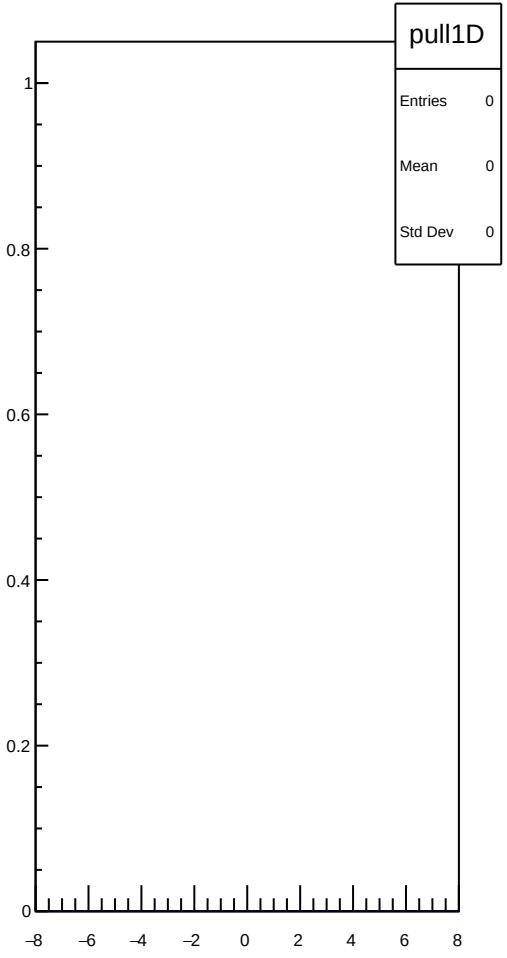
pull1D
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Std Dev 0
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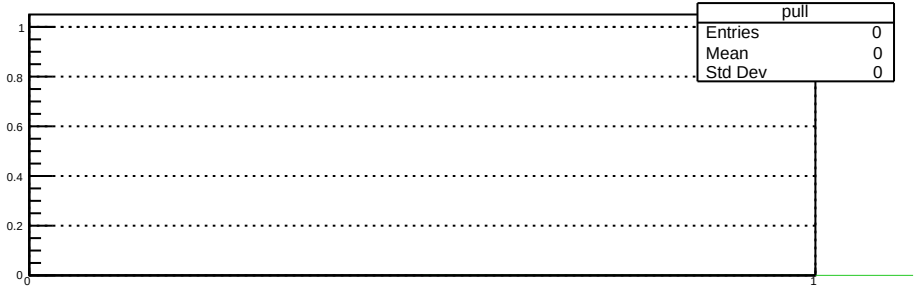
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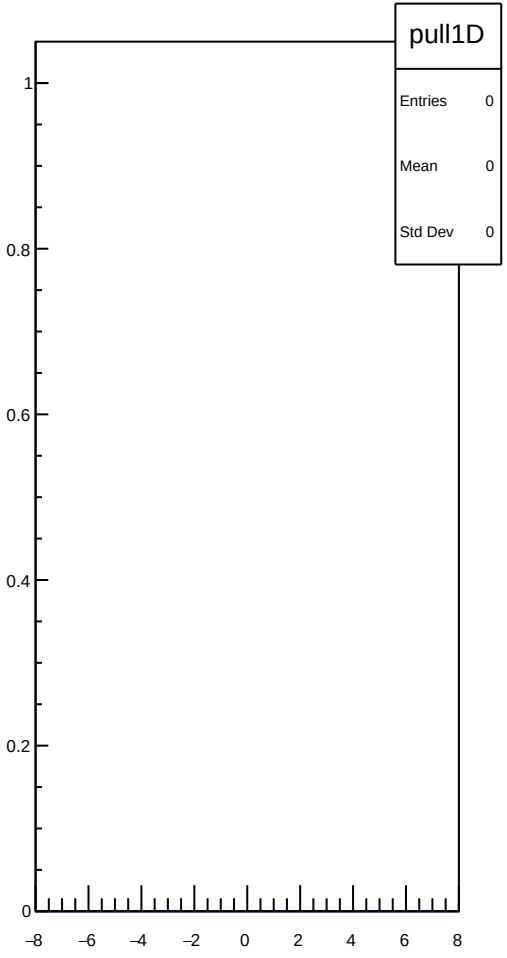
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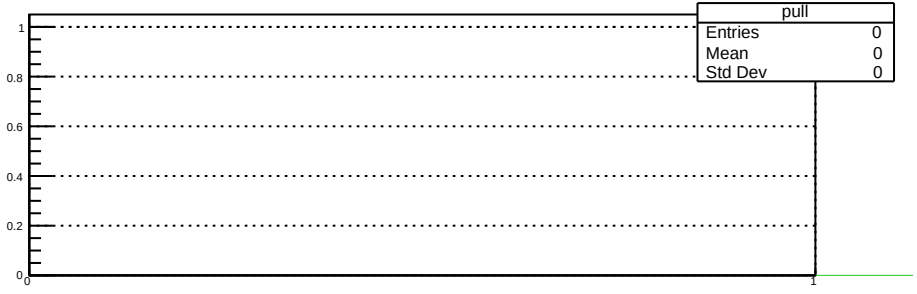
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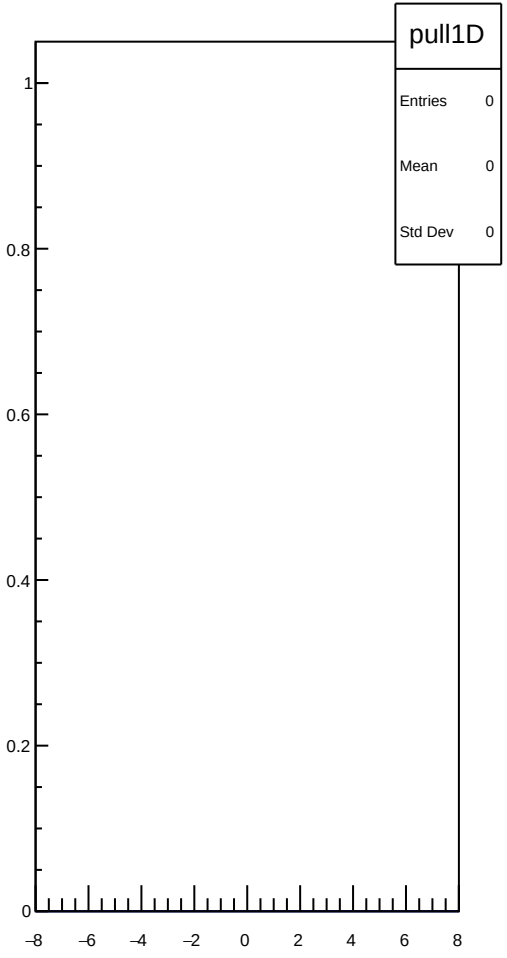
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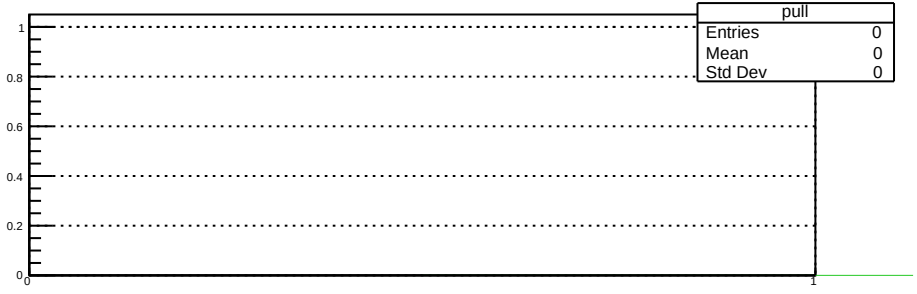
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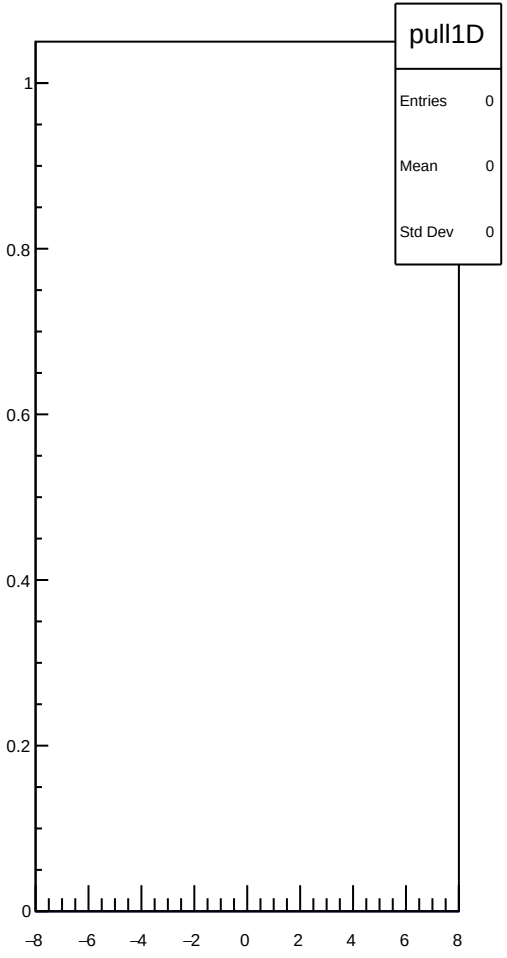
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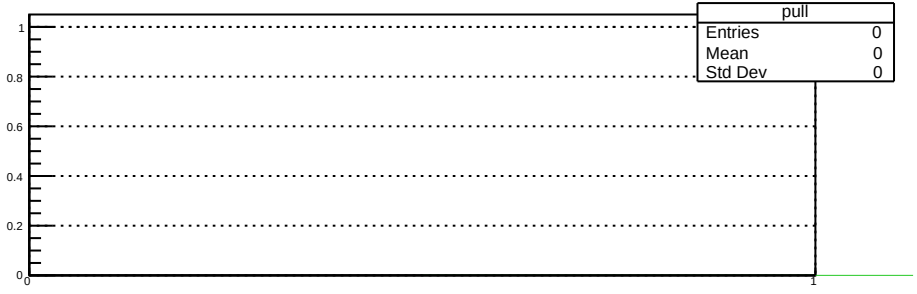
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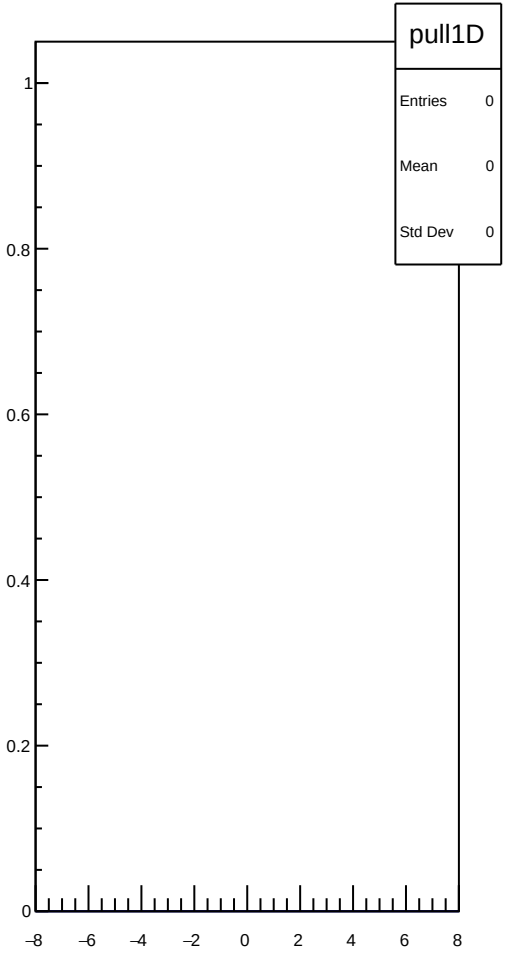
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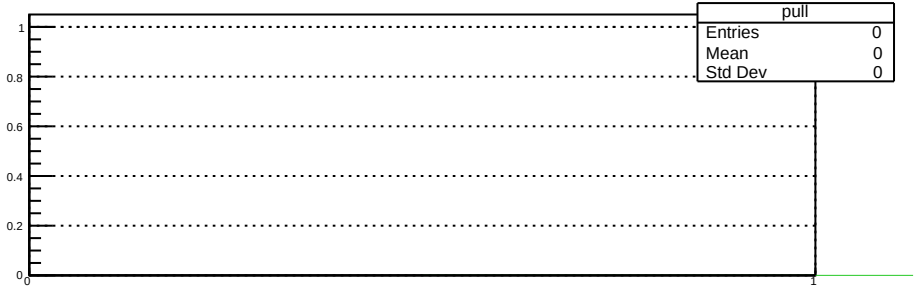
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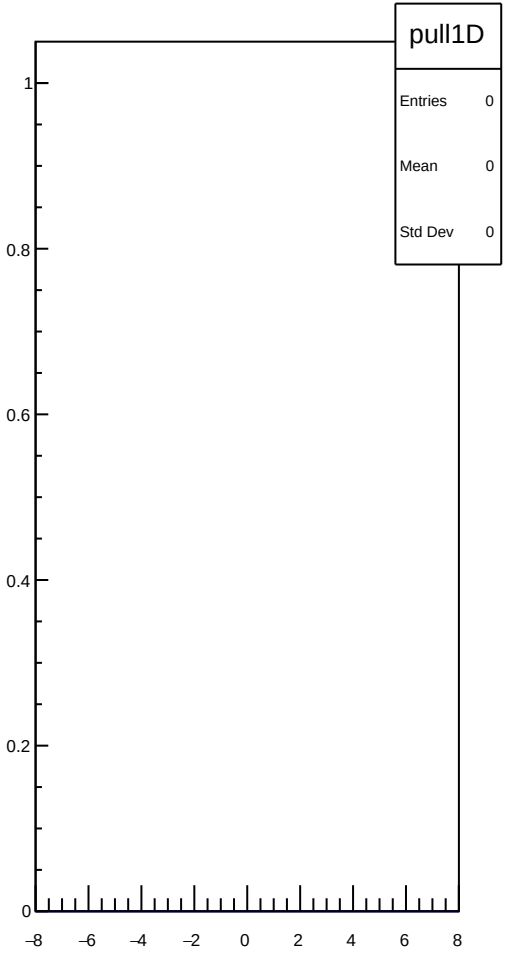
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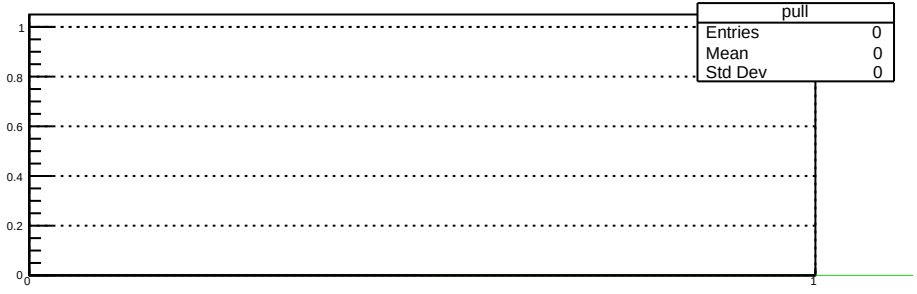
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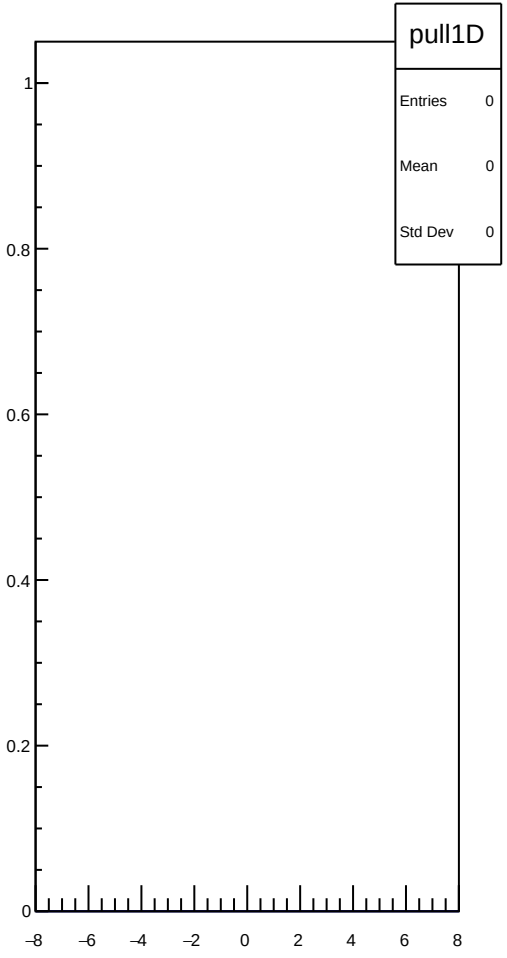
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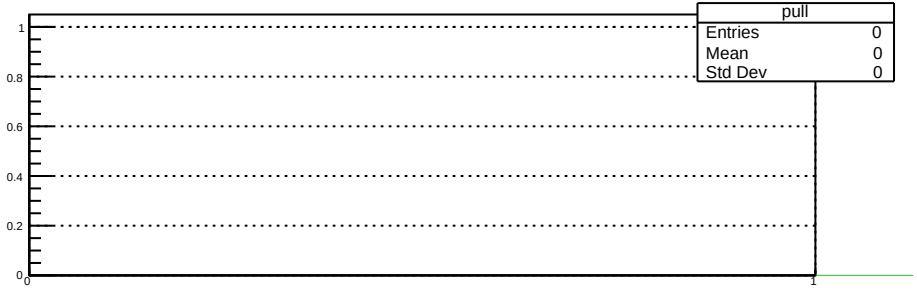
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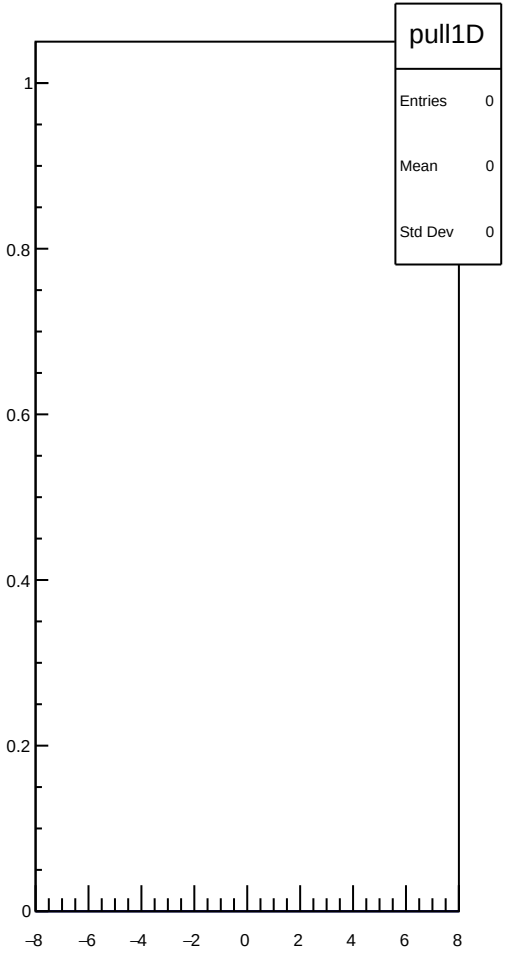
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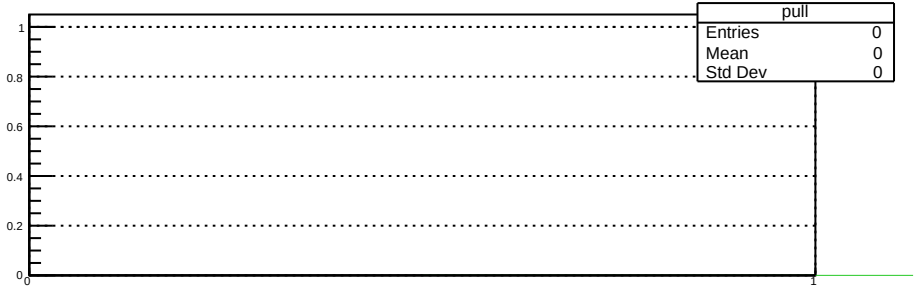
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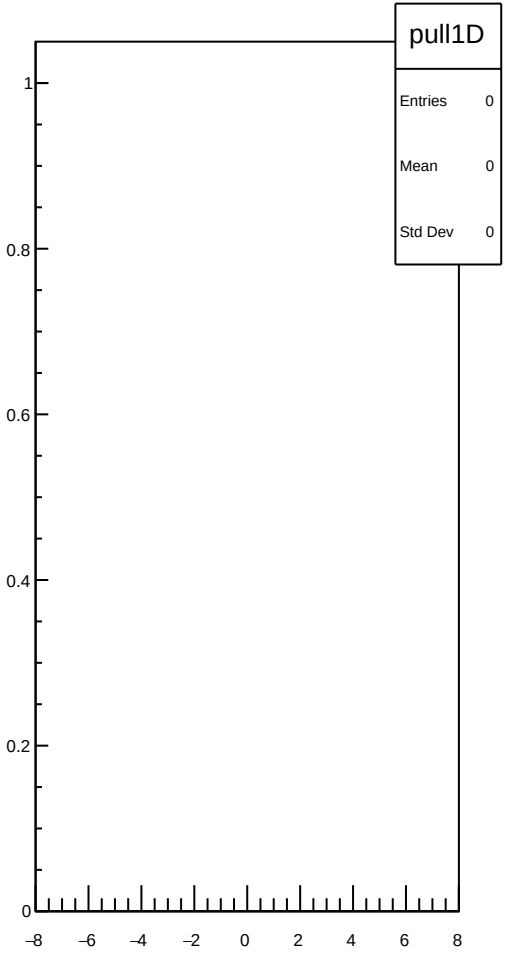
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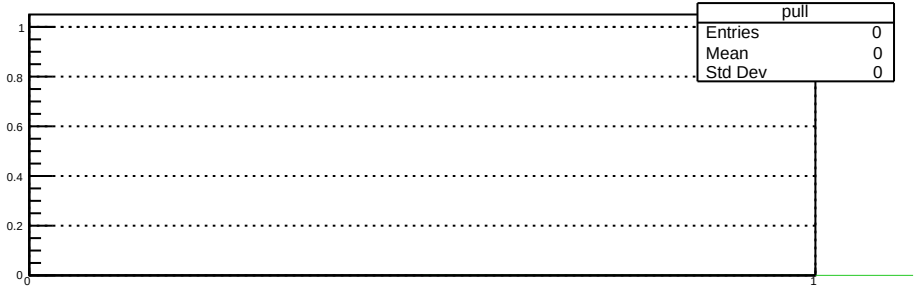
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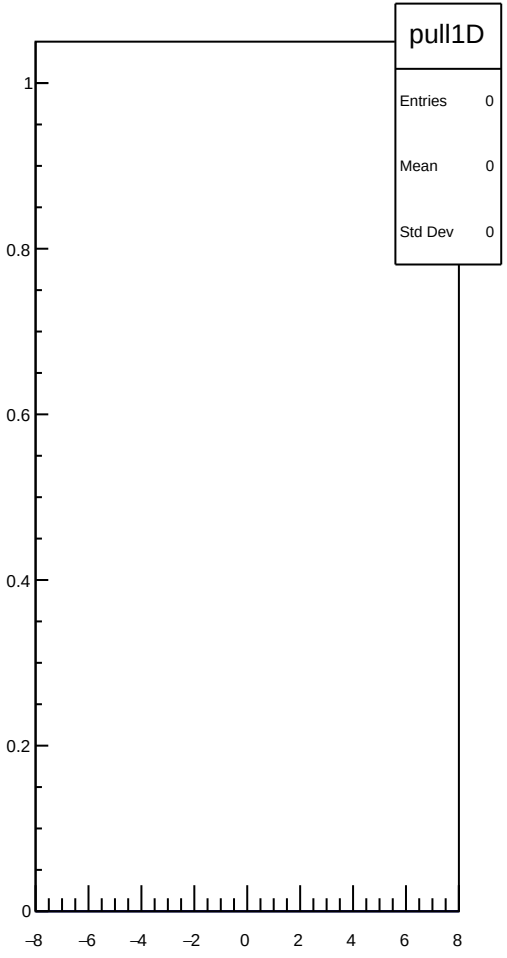
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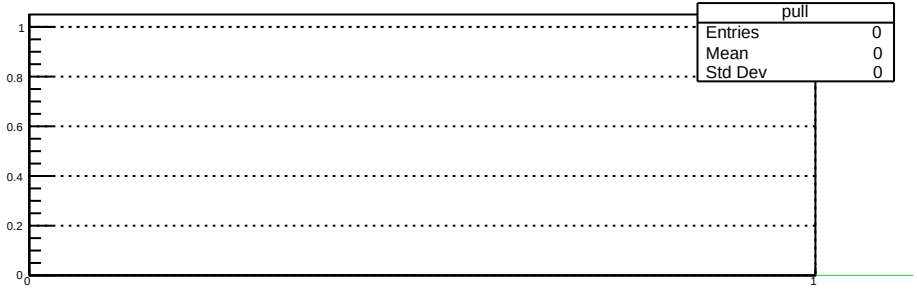
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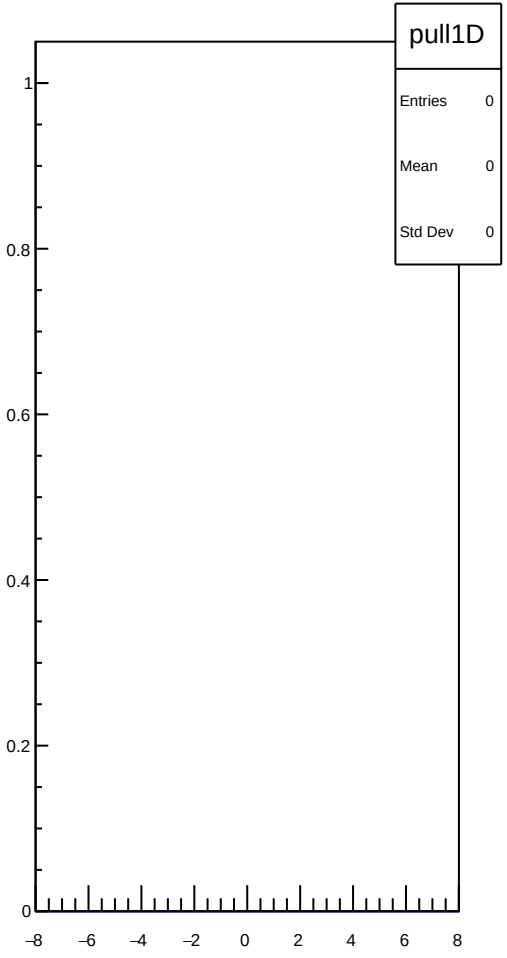
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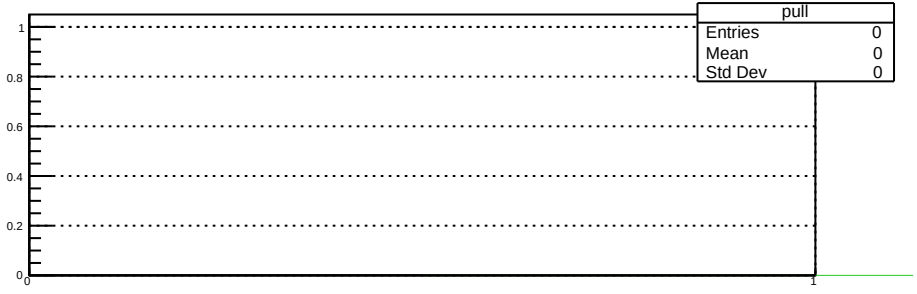
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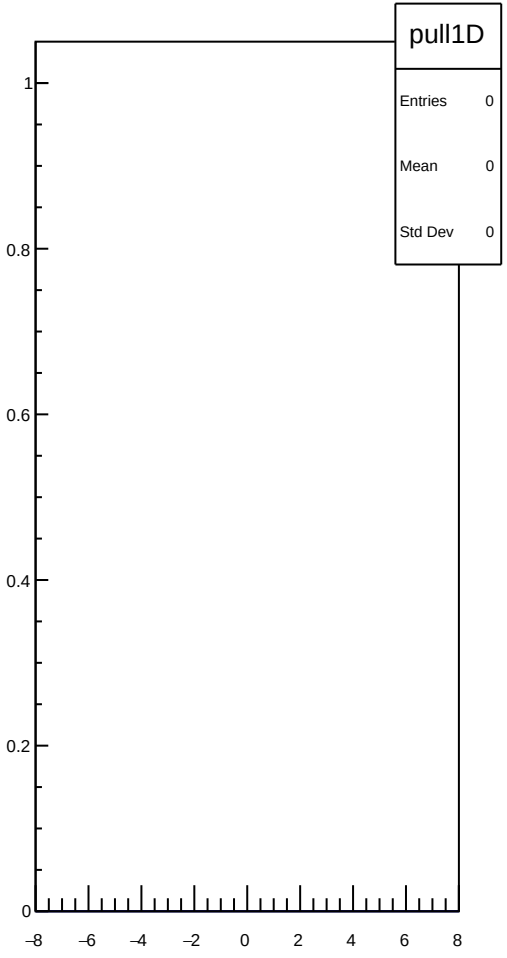
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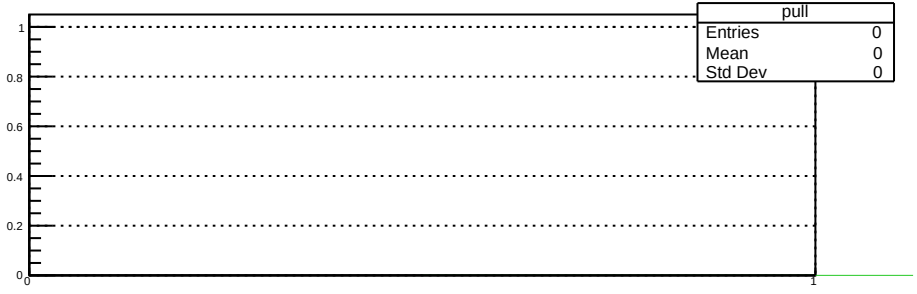
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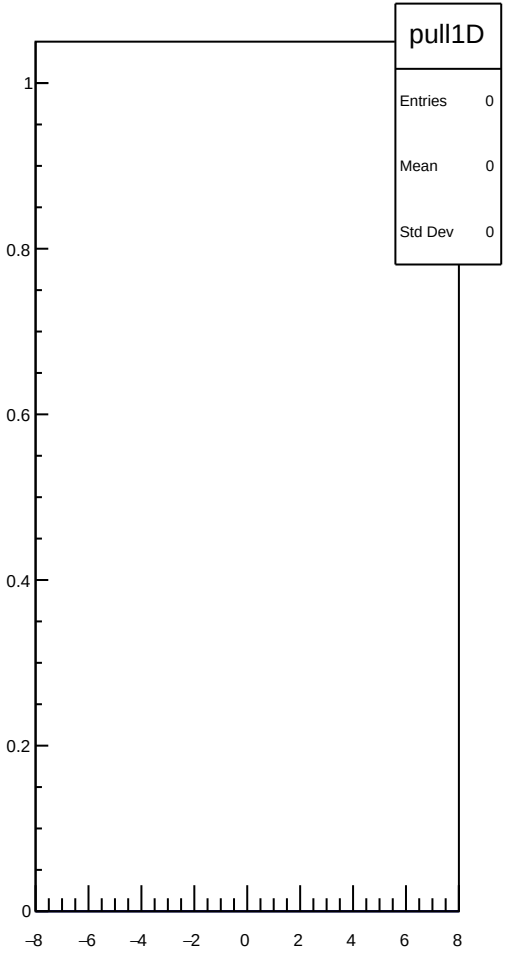
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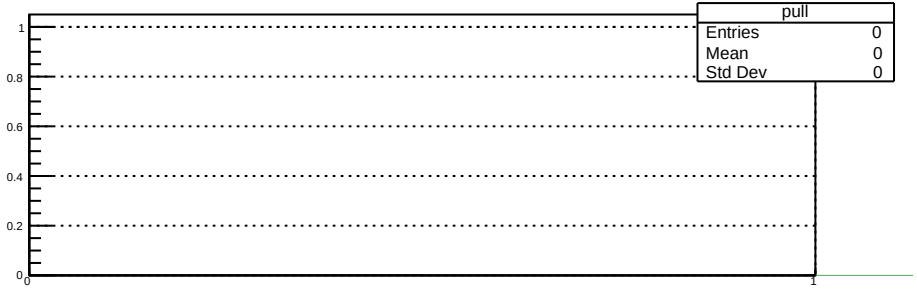
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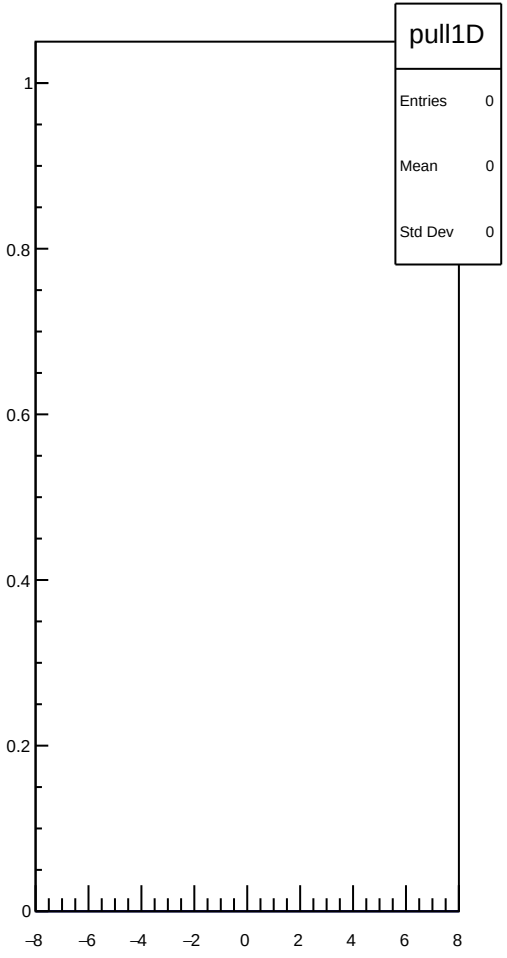
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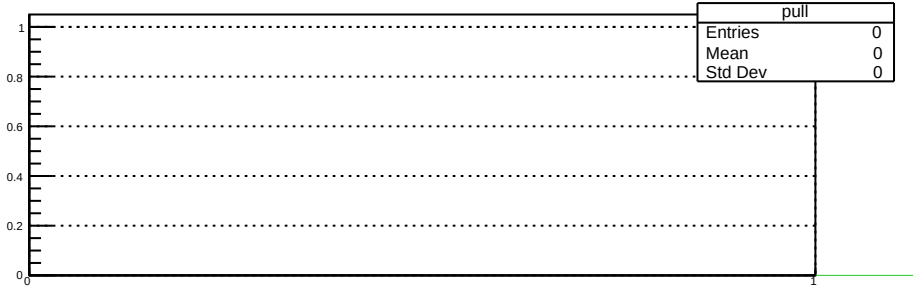
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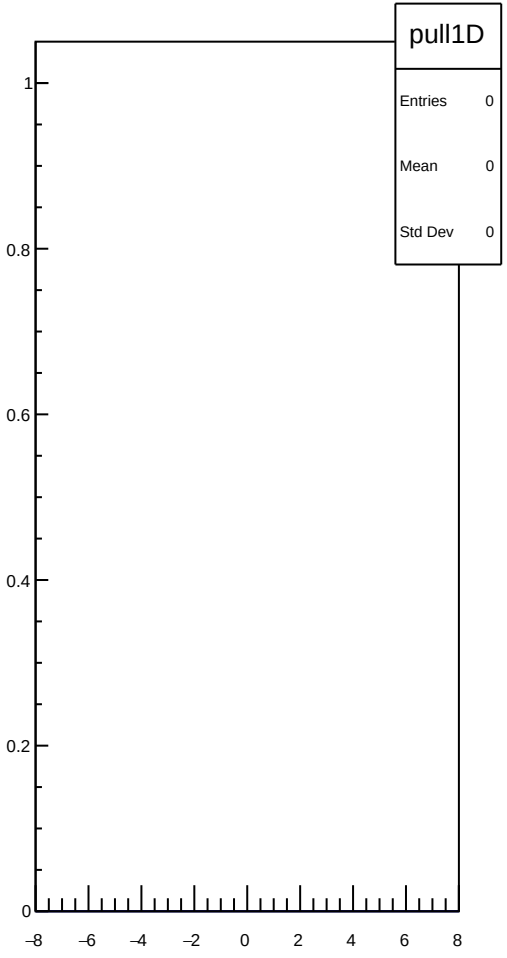
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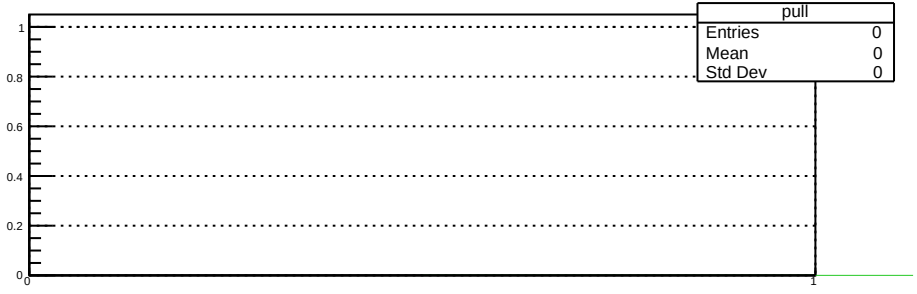
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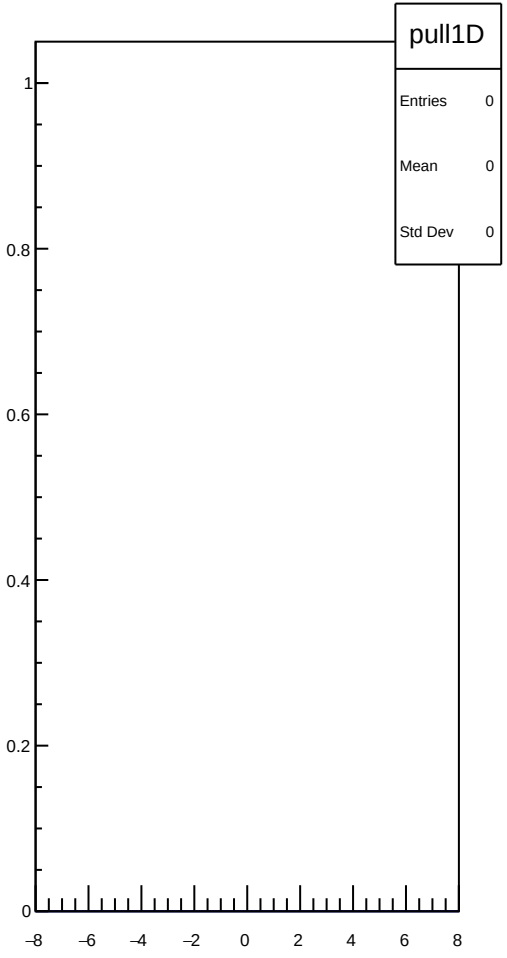
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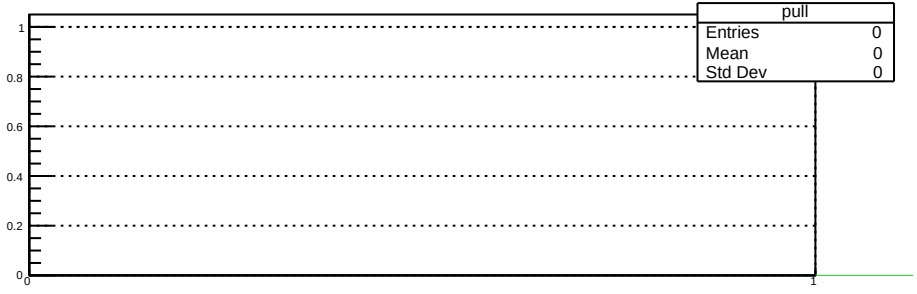
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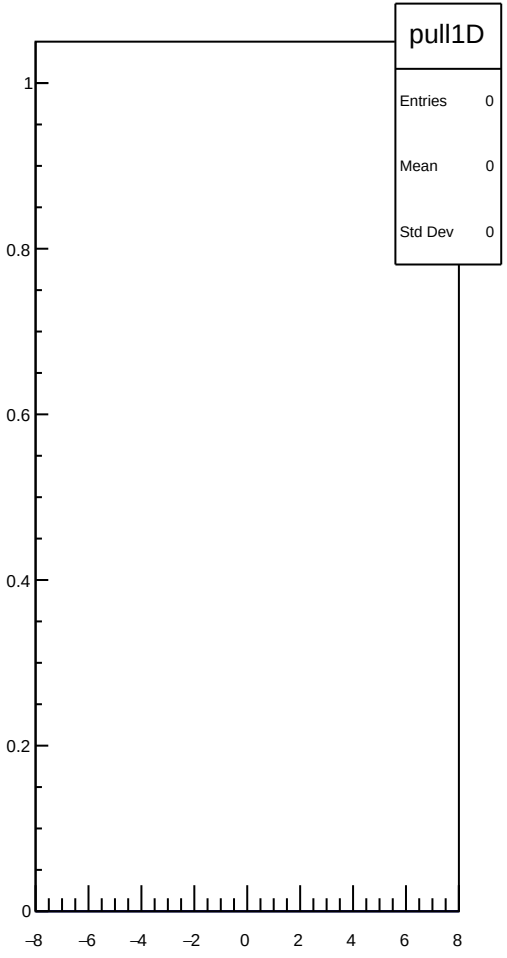
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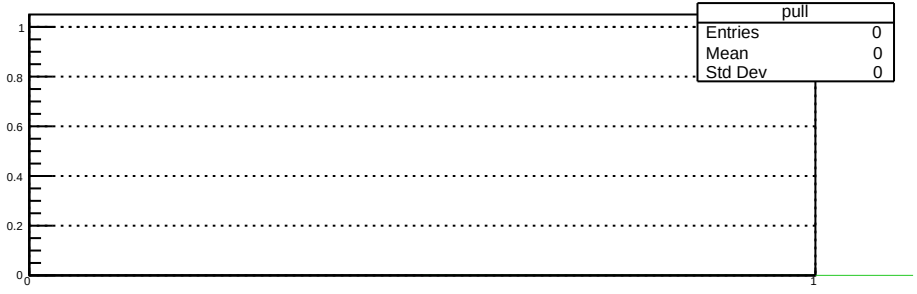
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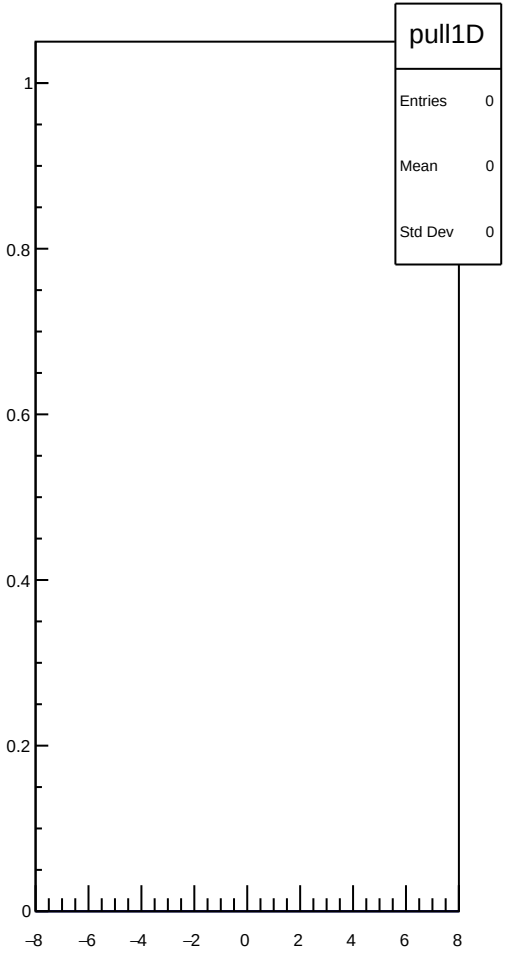
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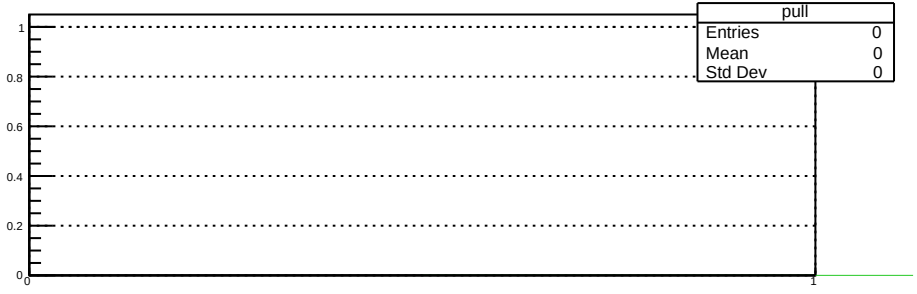
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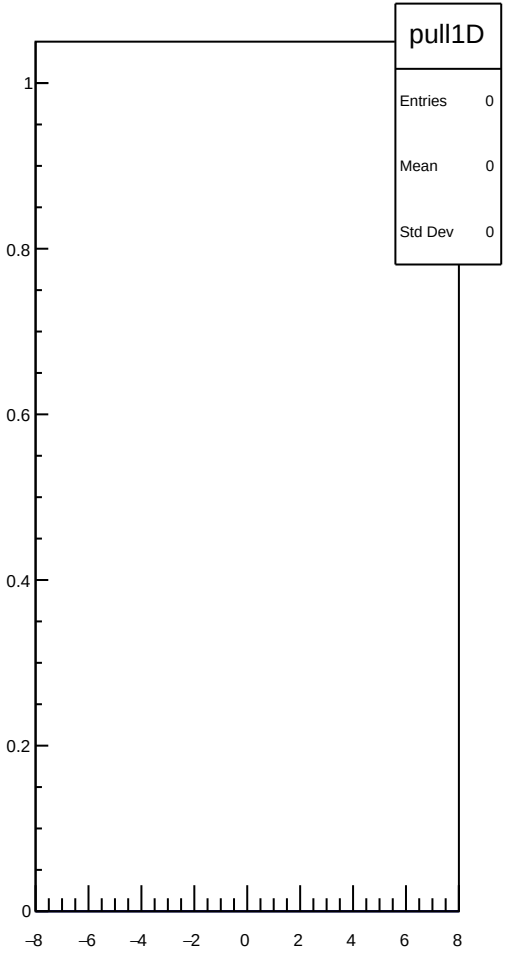
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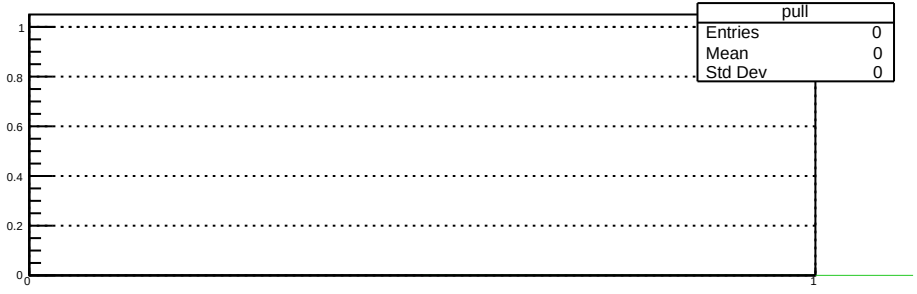
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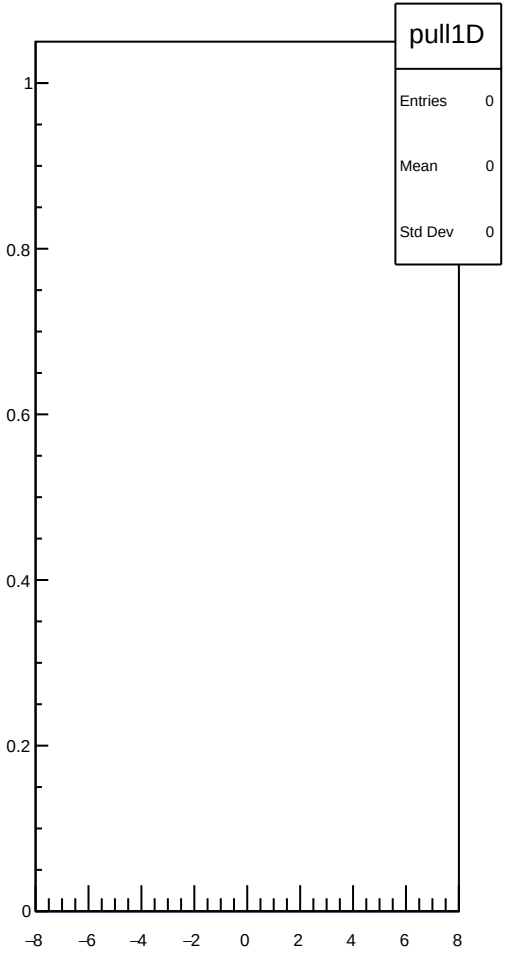
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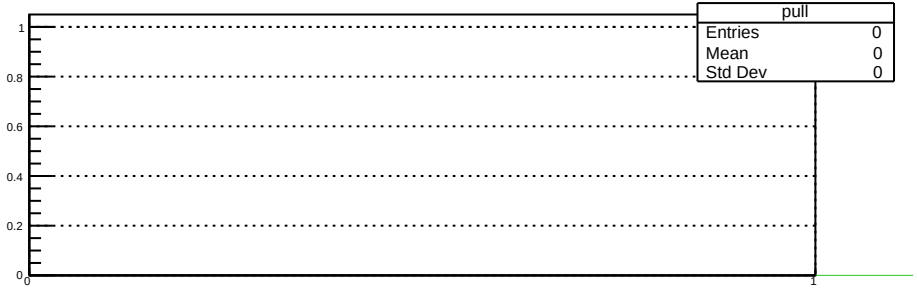
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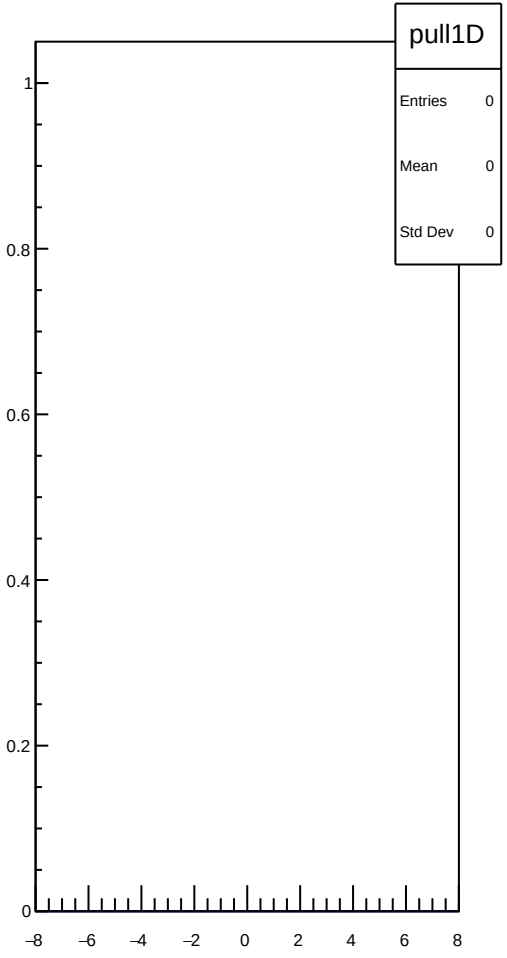
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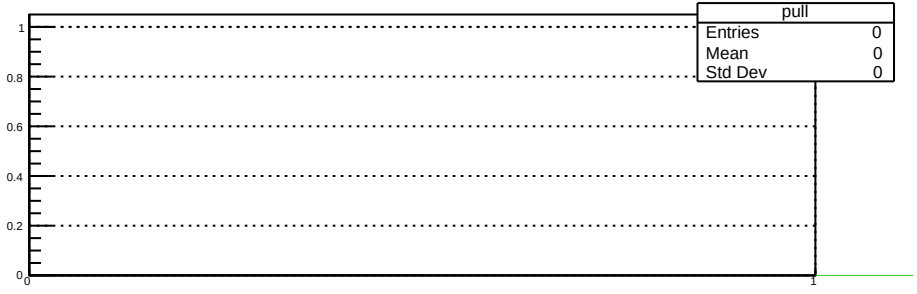
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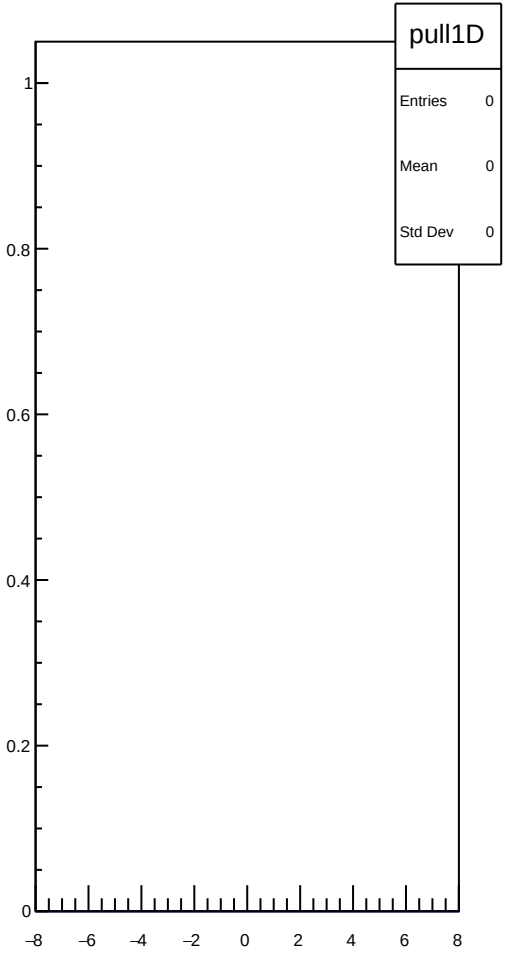
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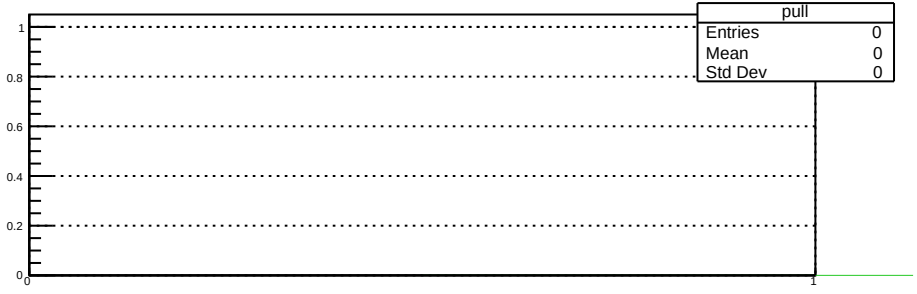
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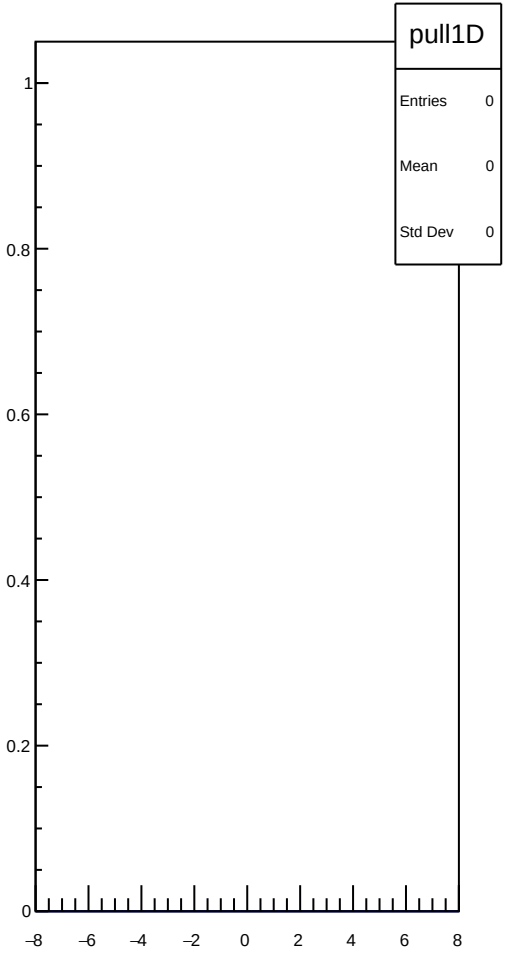
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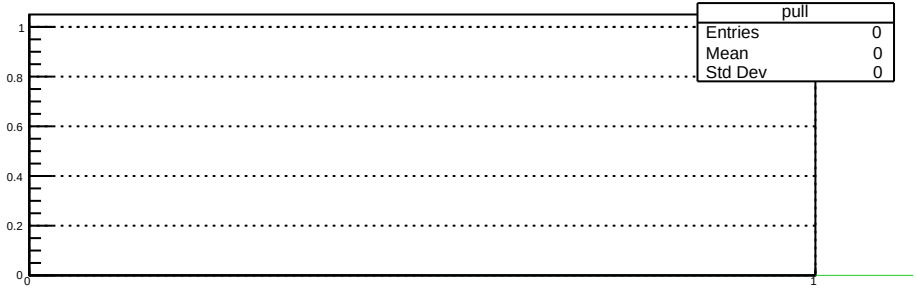
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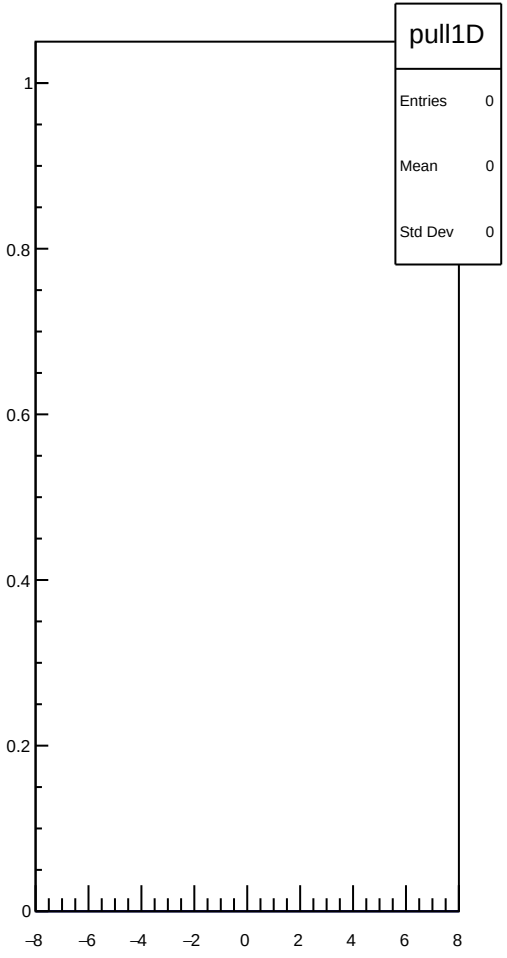
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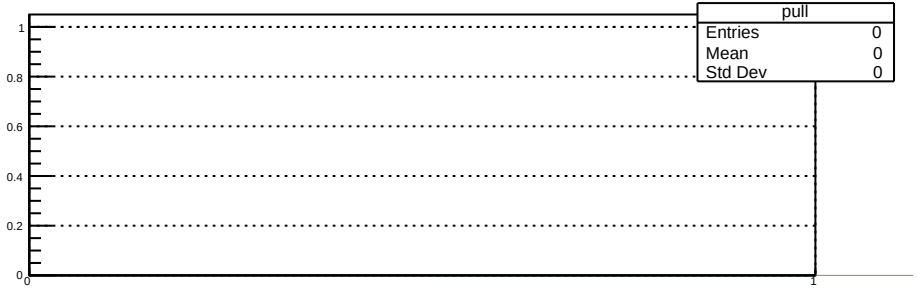
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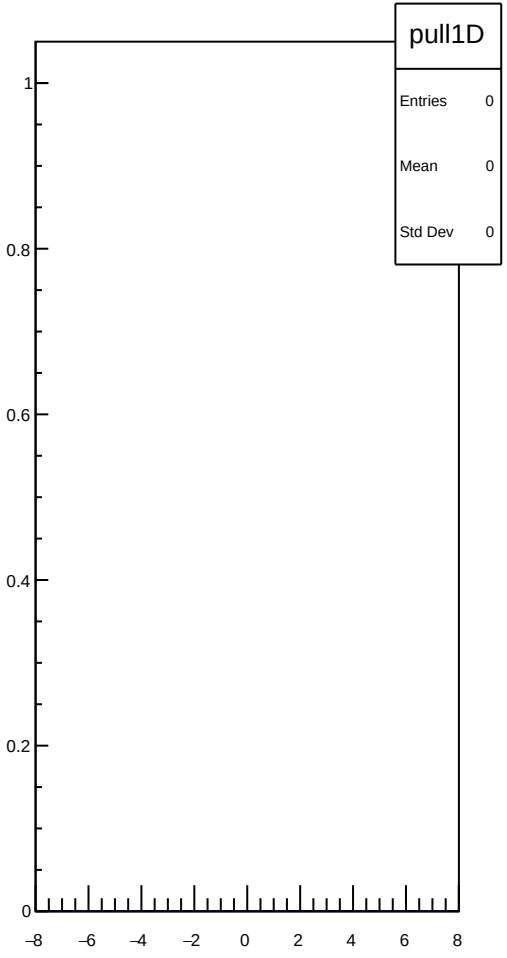
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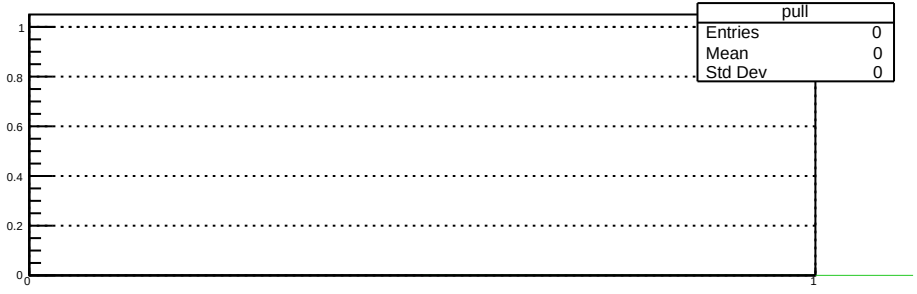
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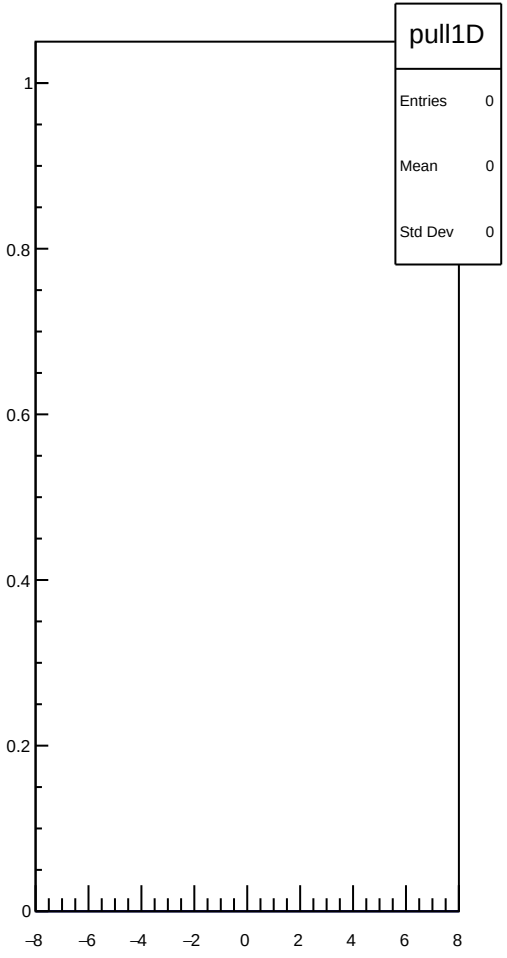
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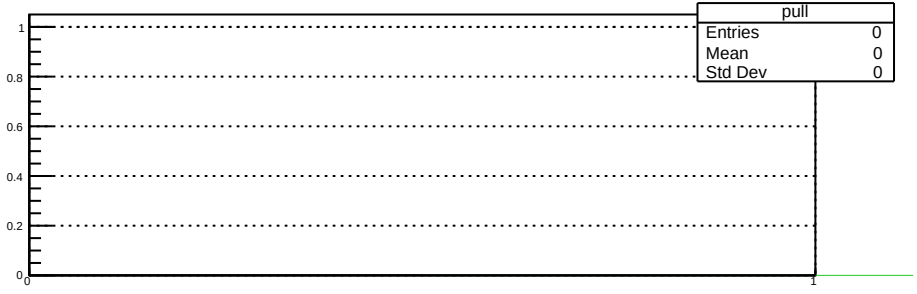
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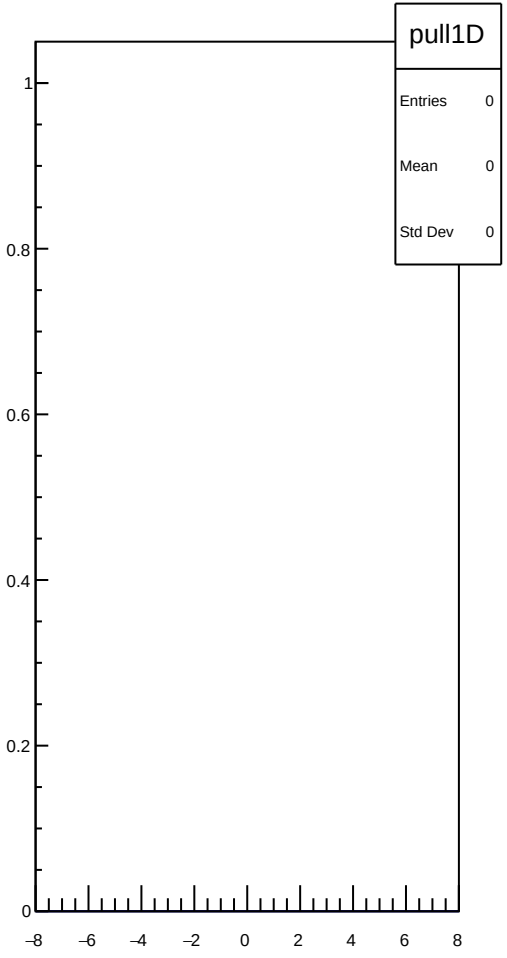
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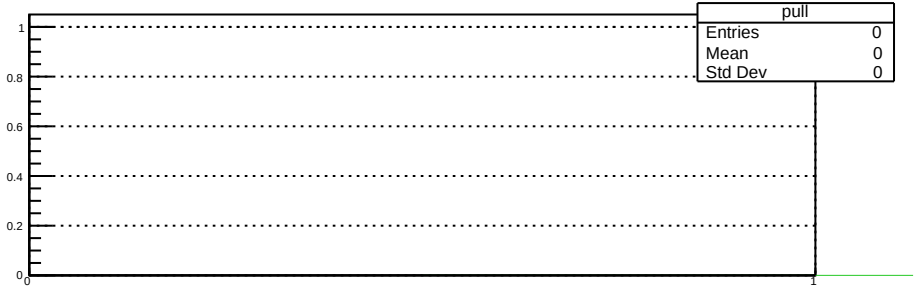
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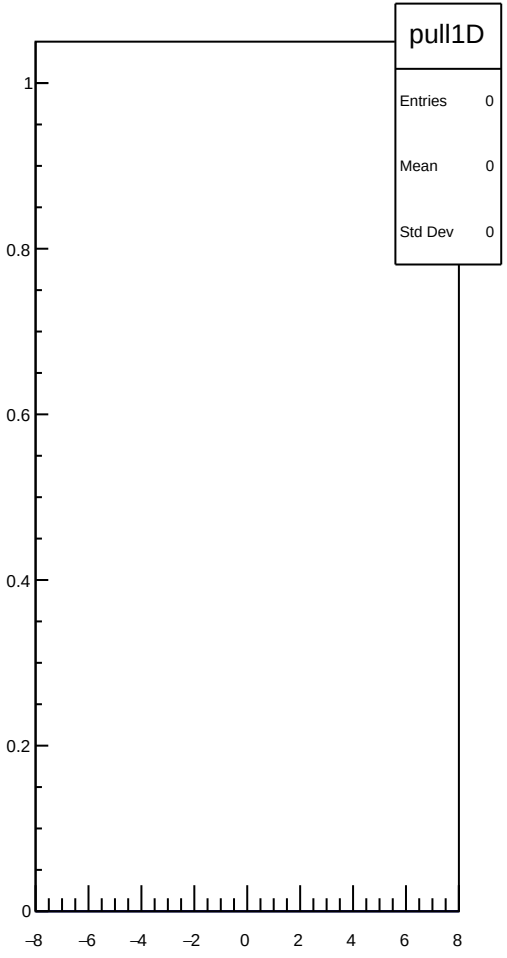
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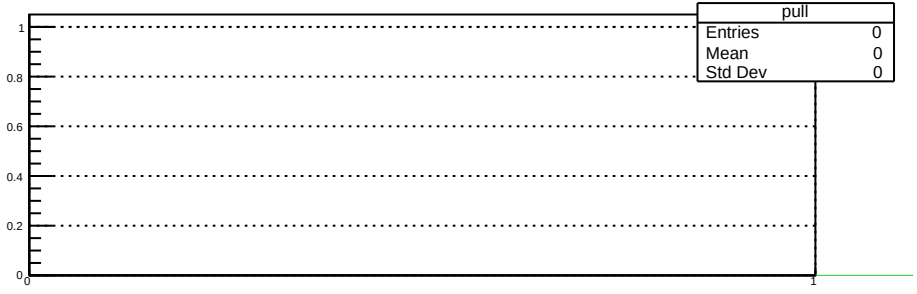
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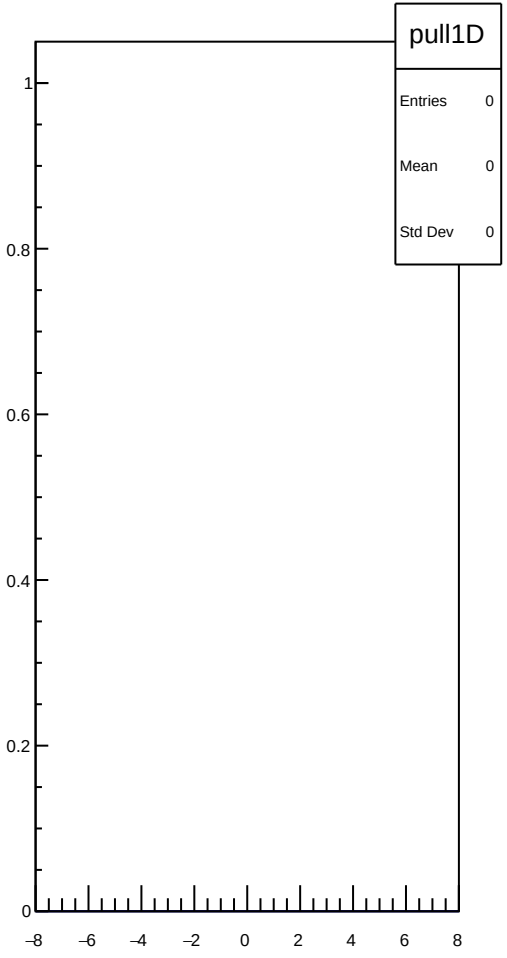
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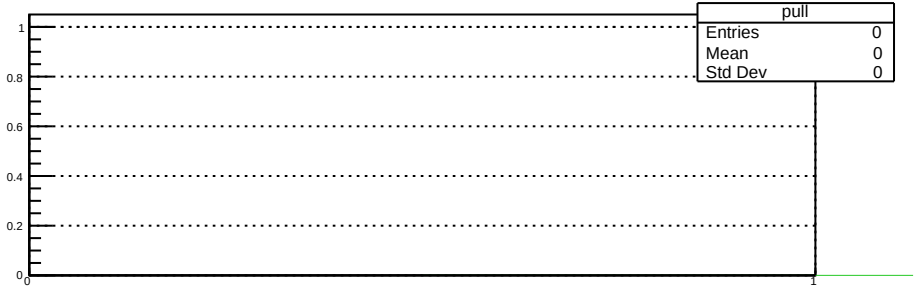
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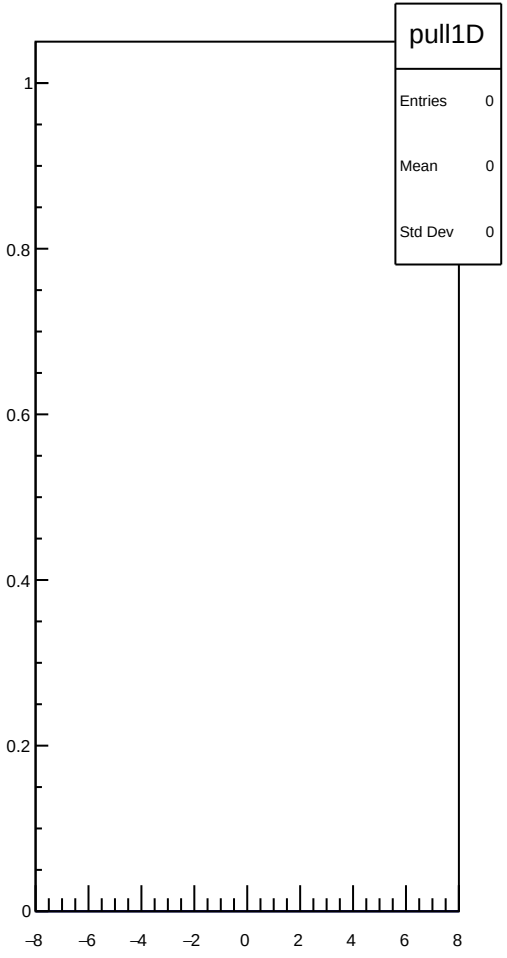
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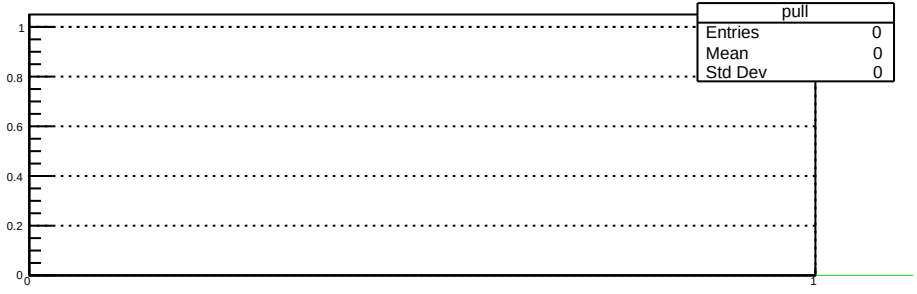
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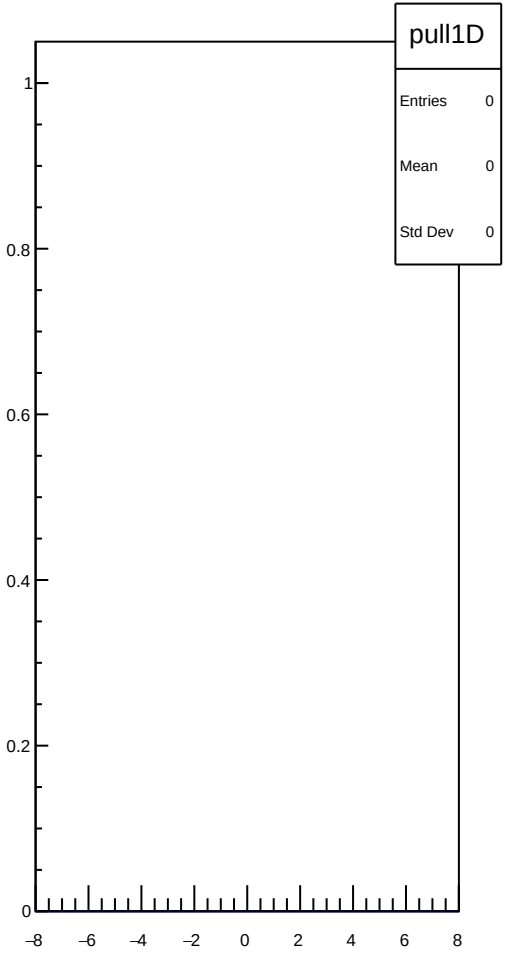
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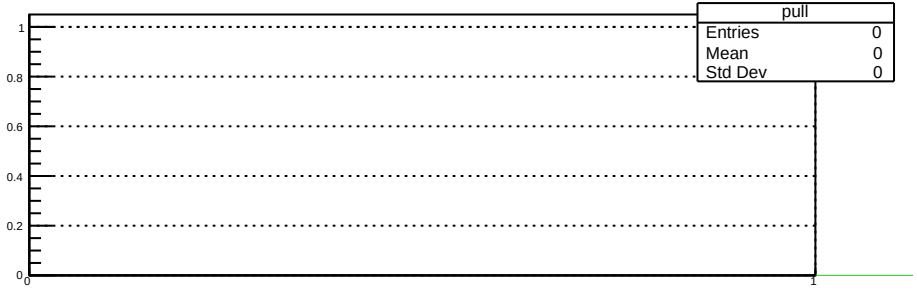
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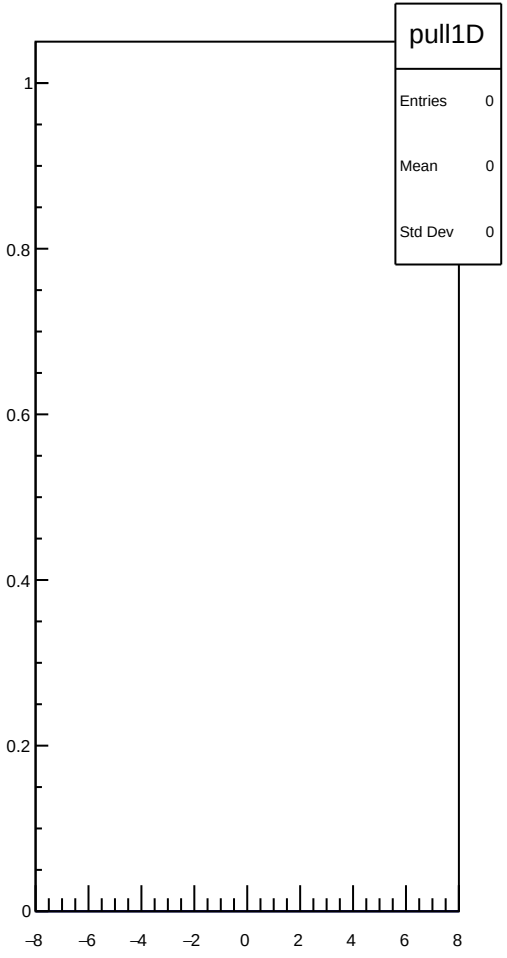
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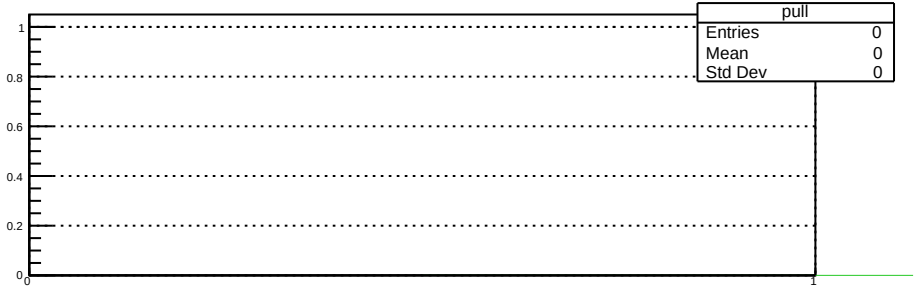
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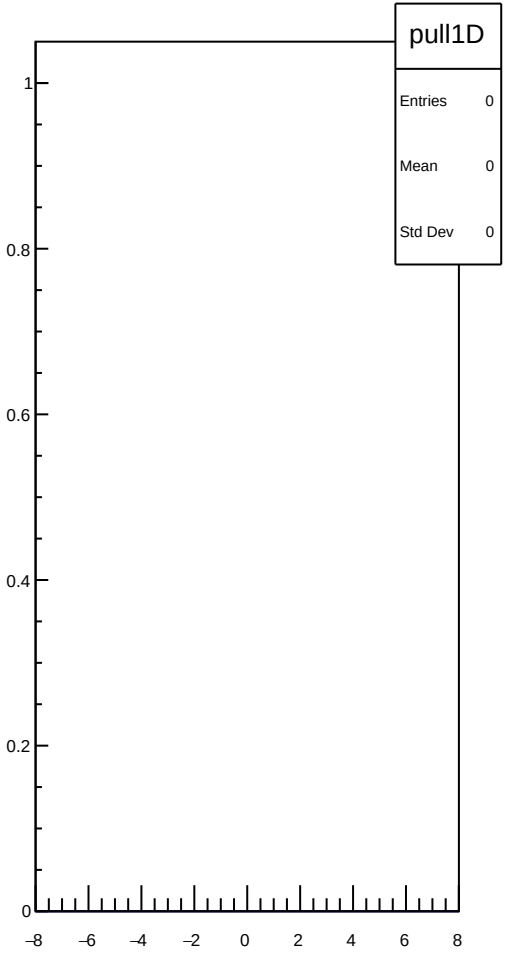
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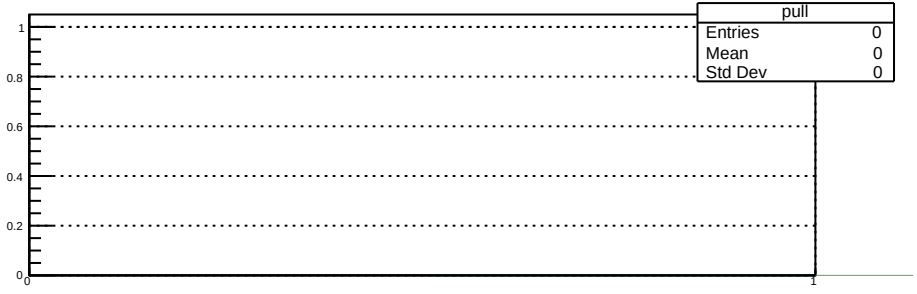
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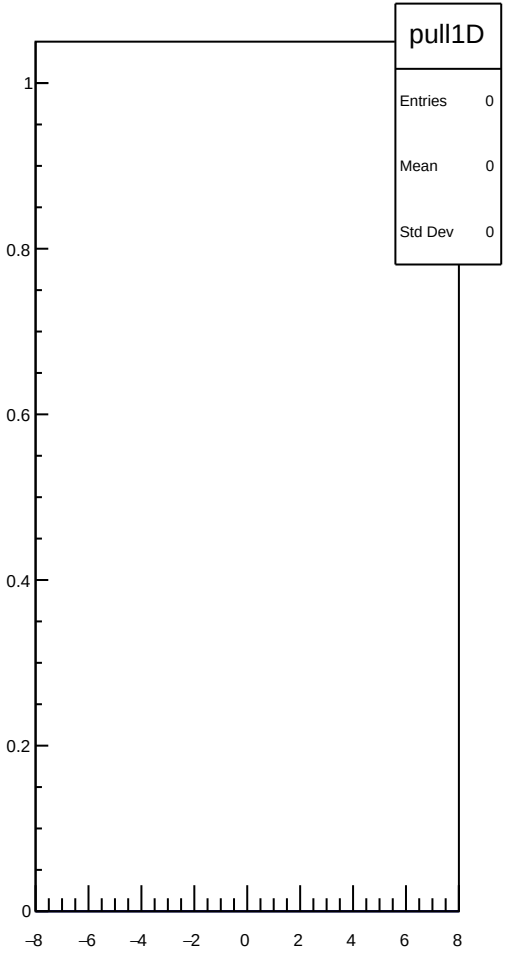
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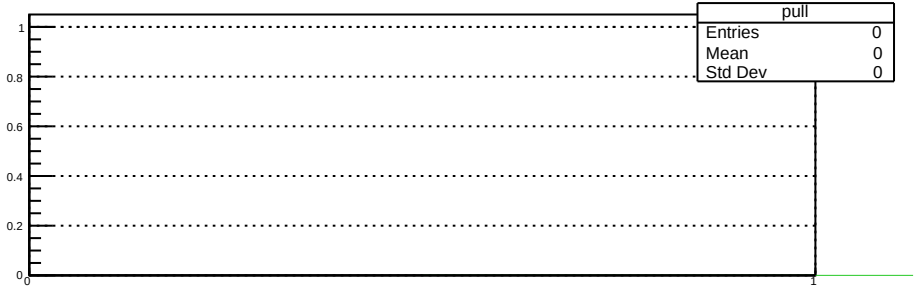
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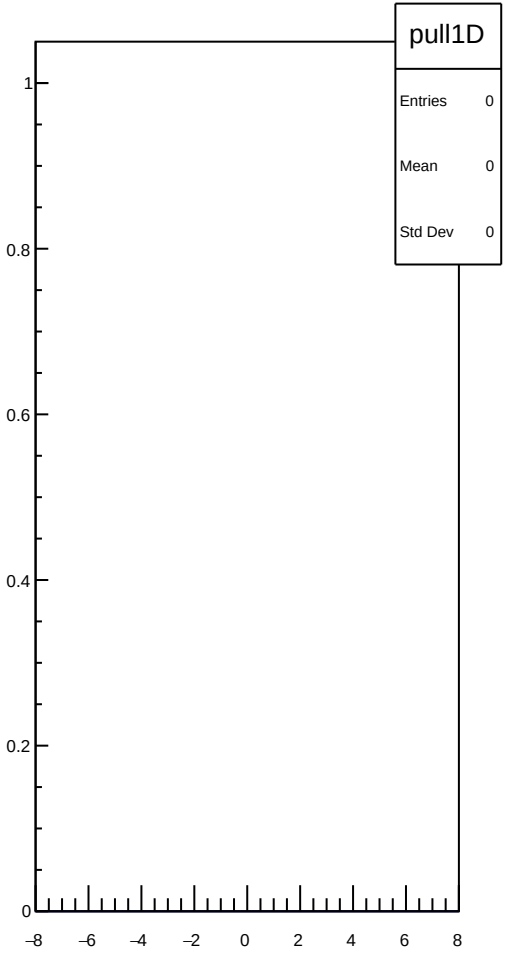
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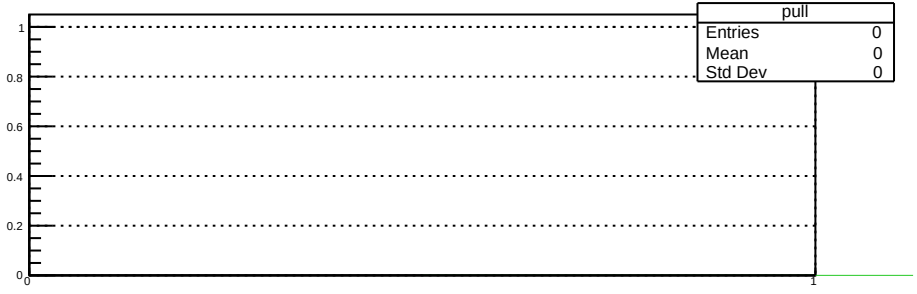
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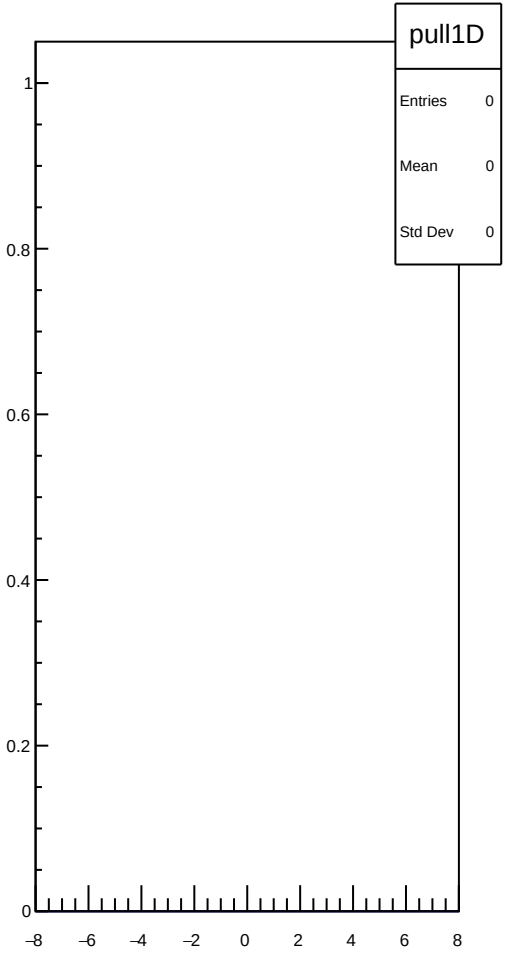
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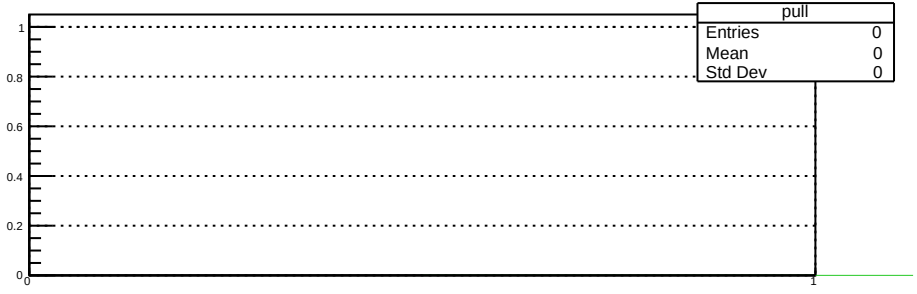
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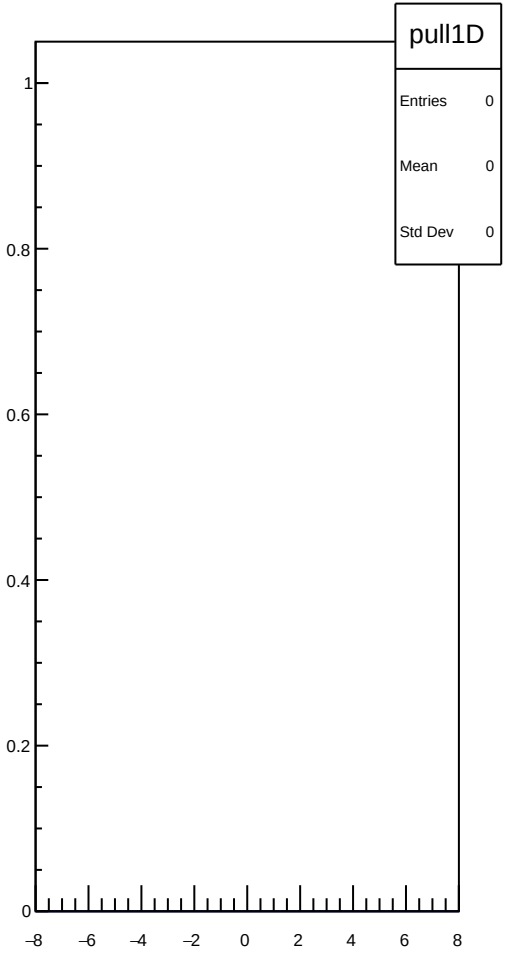
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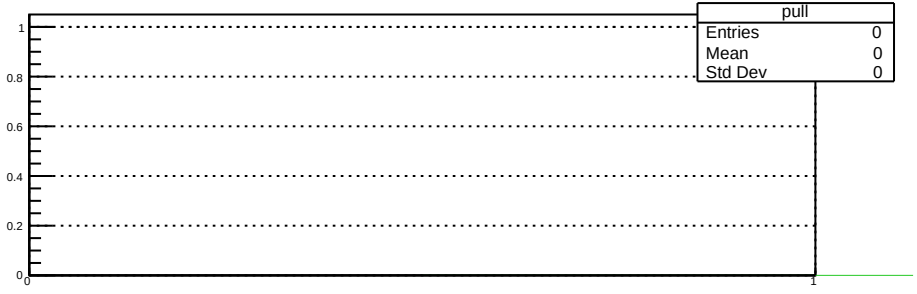
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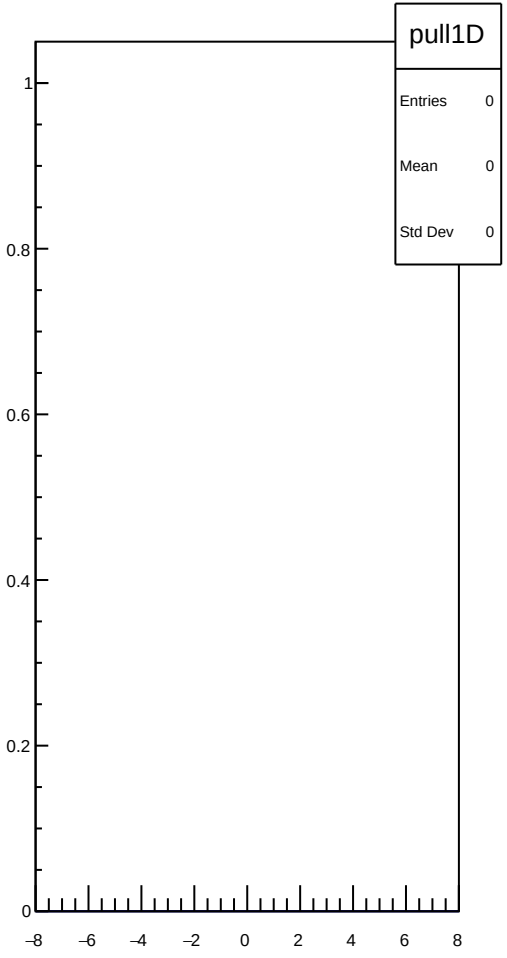
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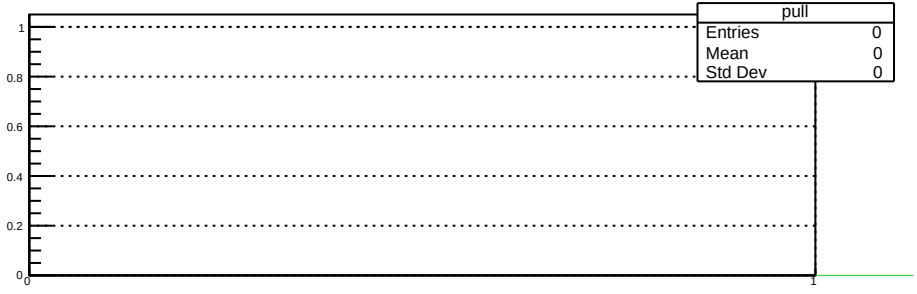
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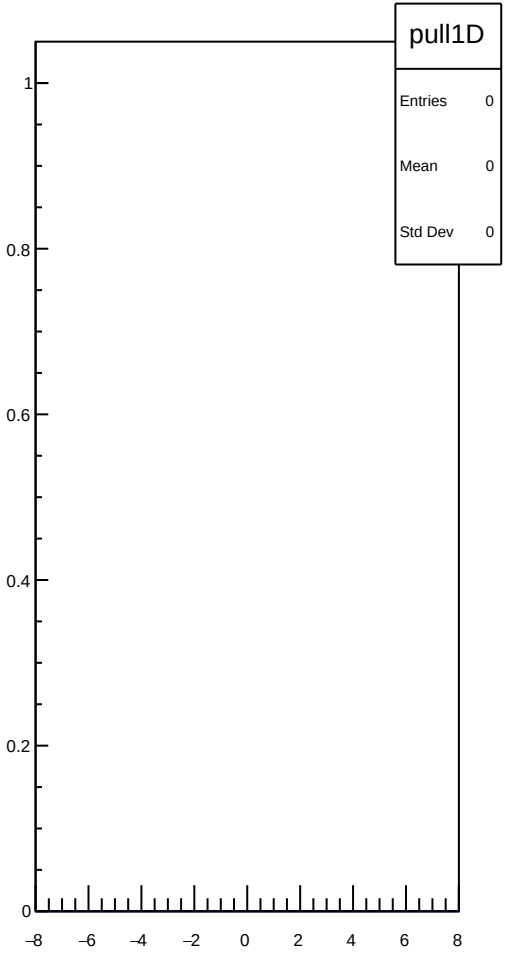
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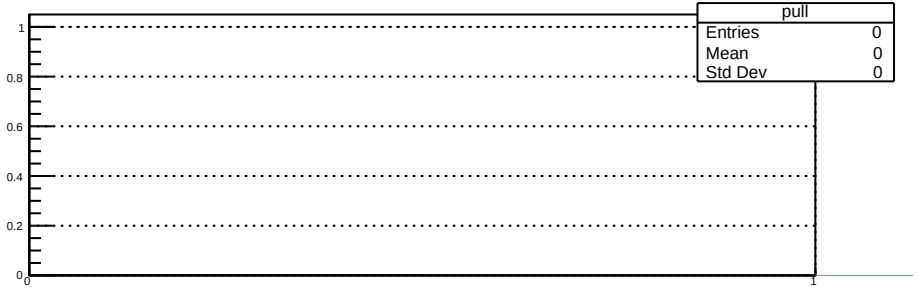
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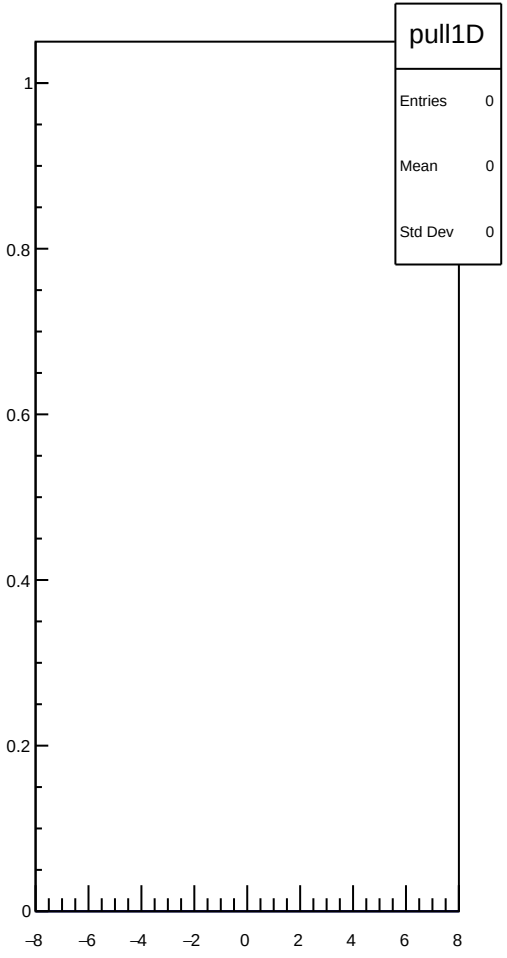
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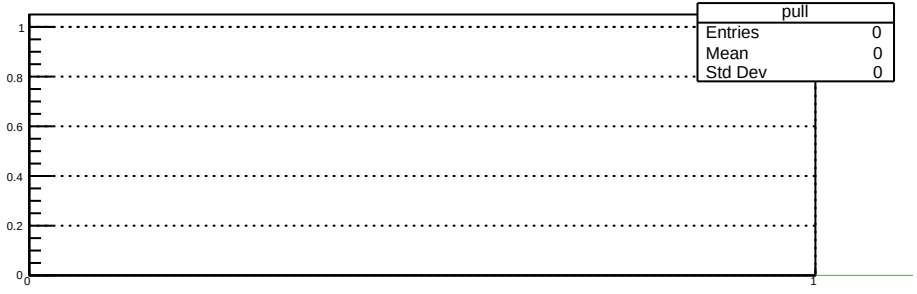
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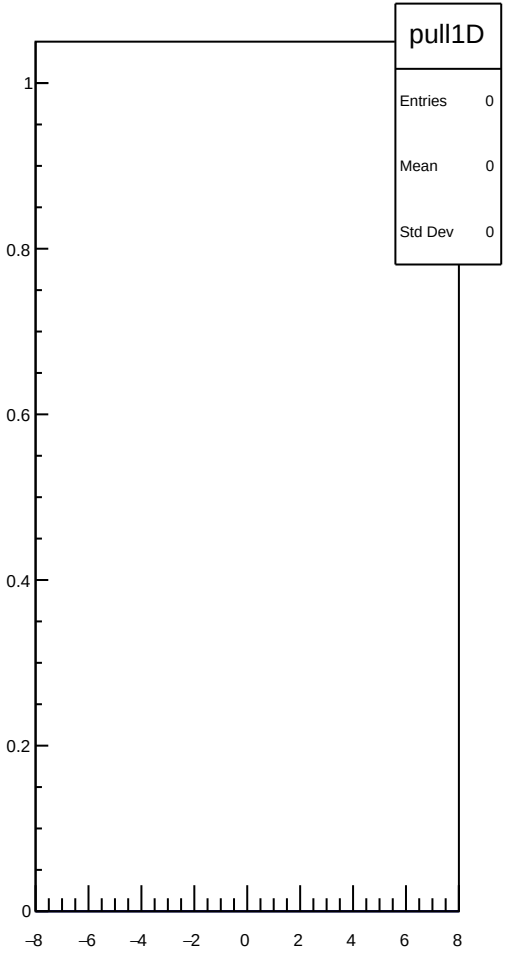
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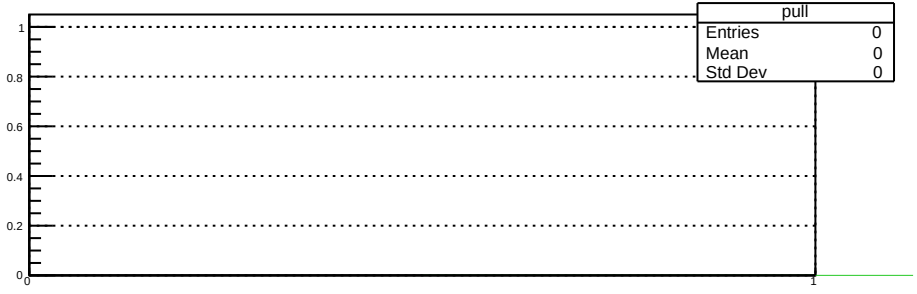
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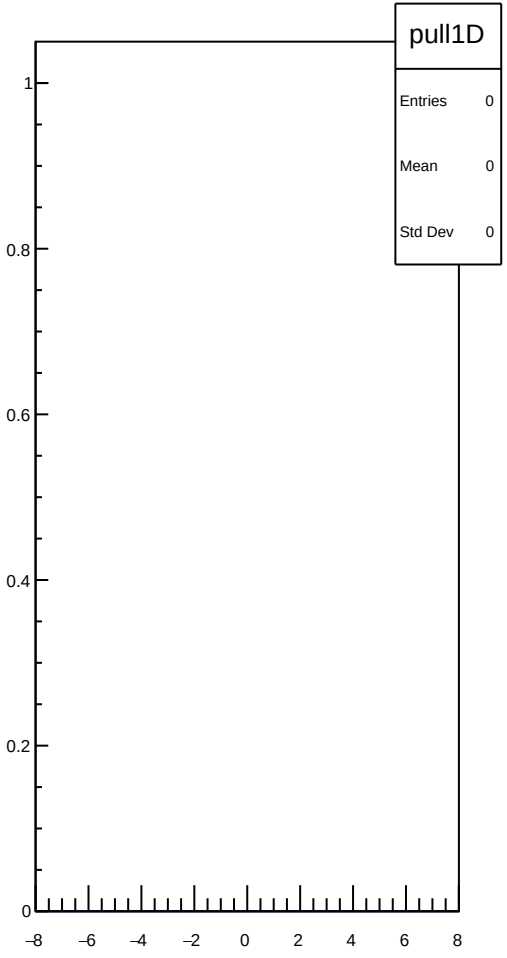
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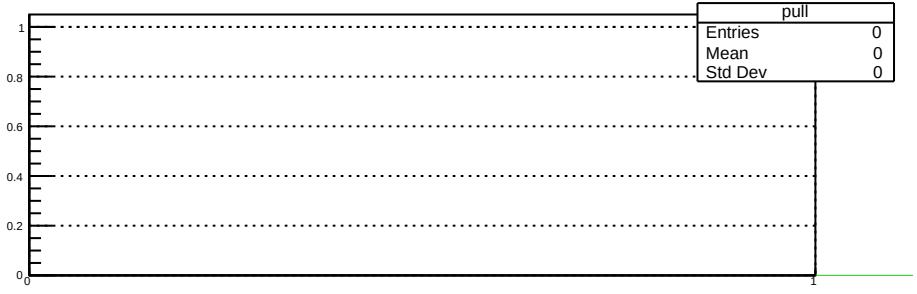
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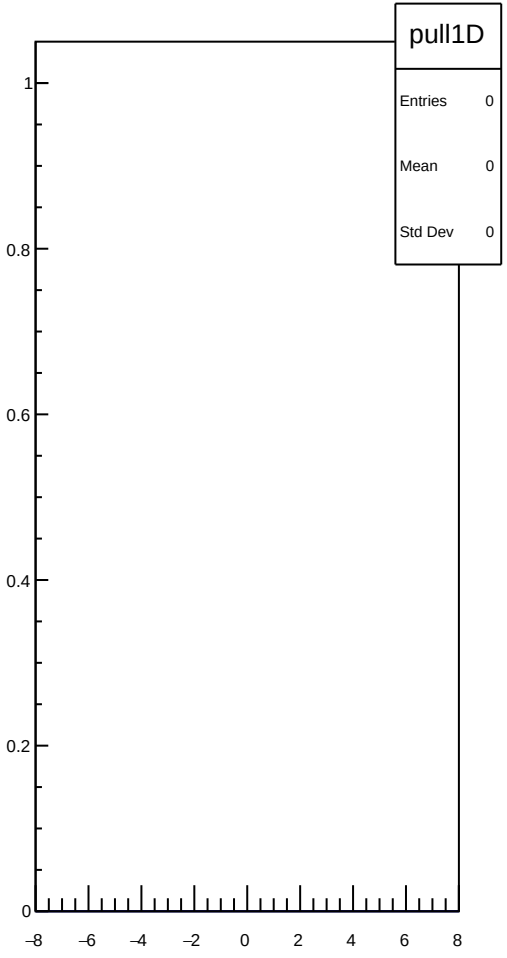
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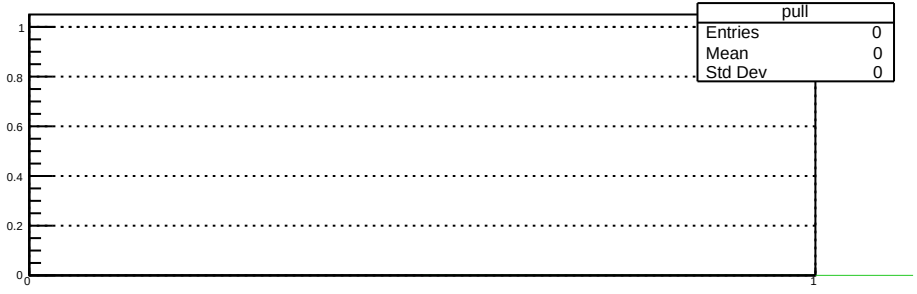
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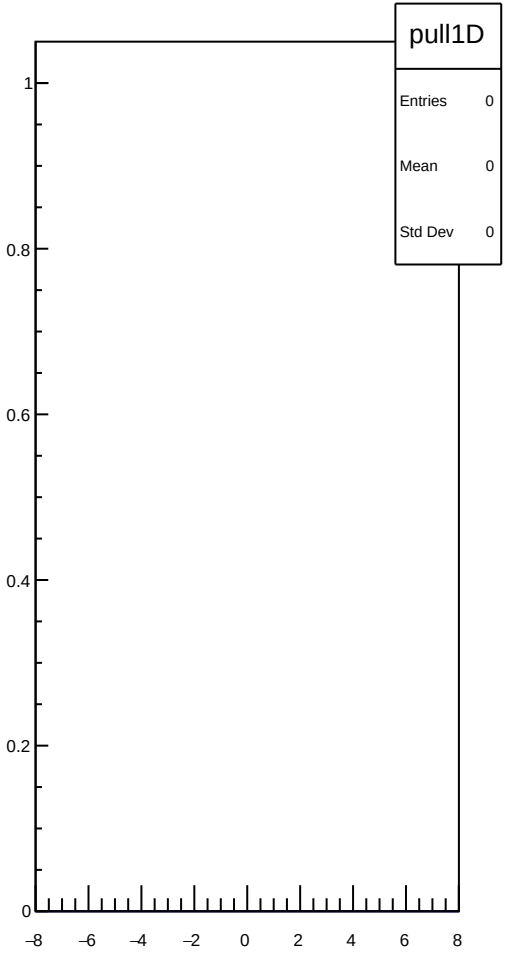
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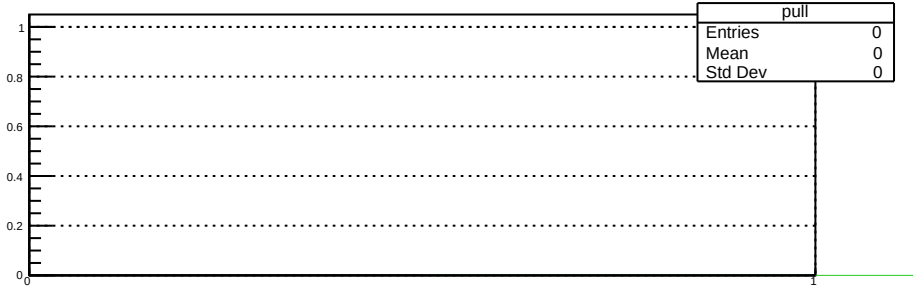
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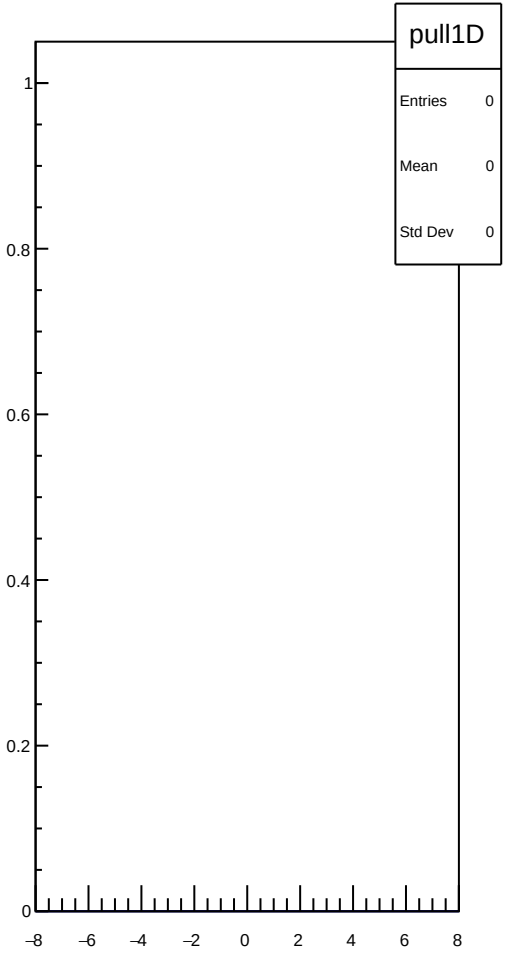
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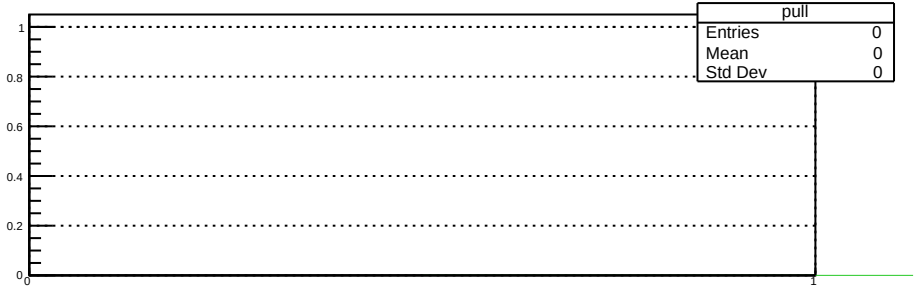
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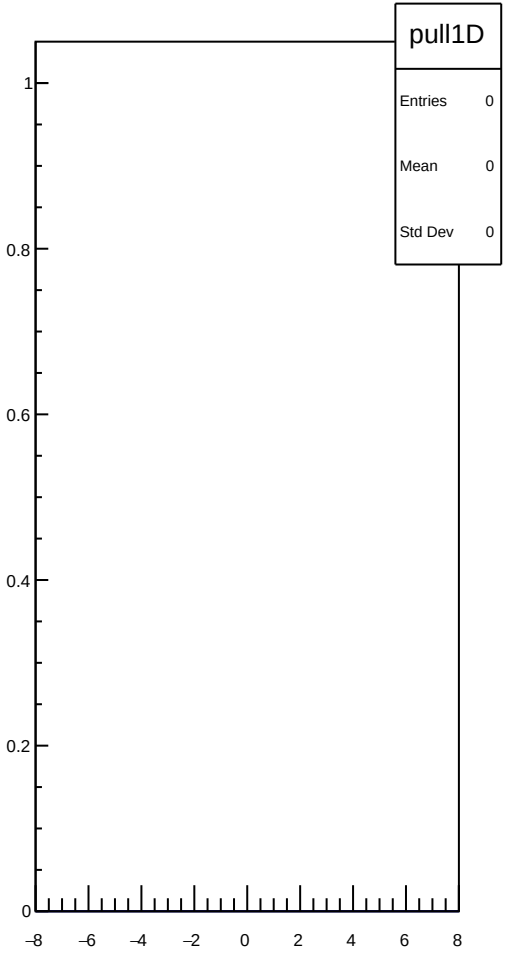
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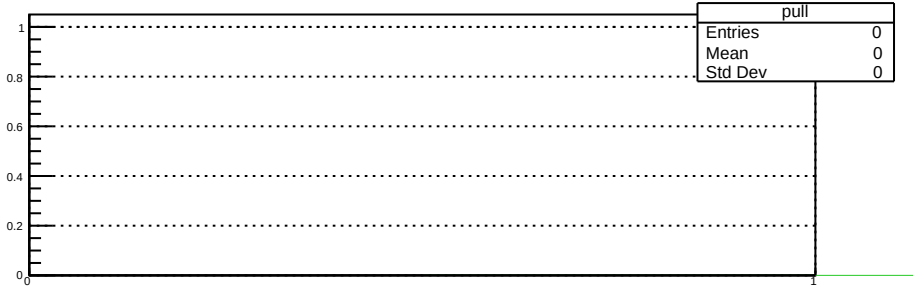
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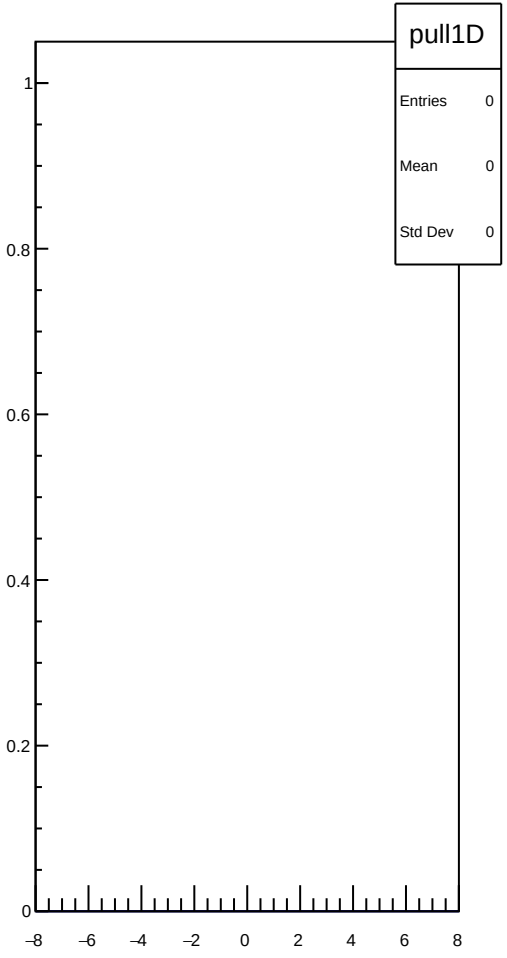
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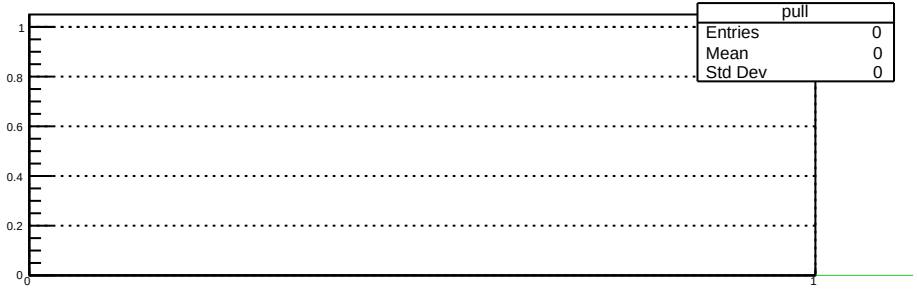
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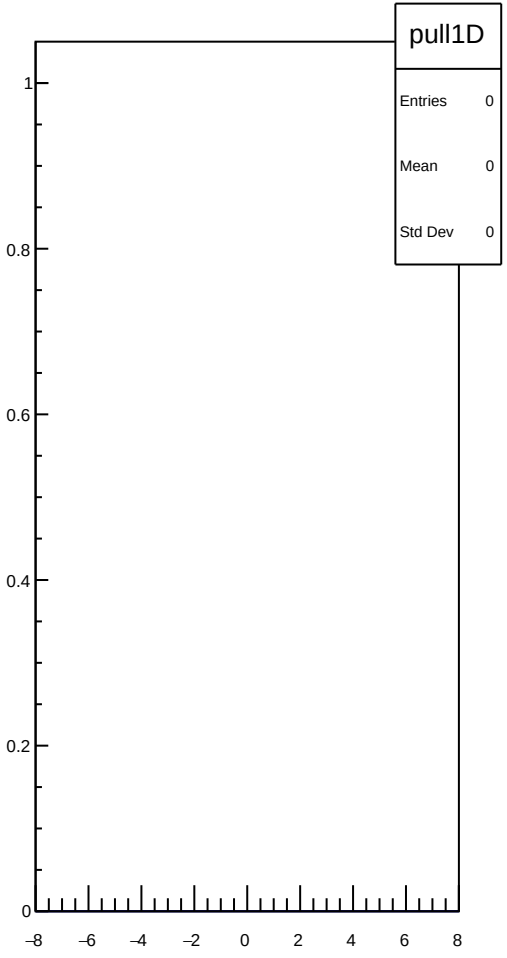
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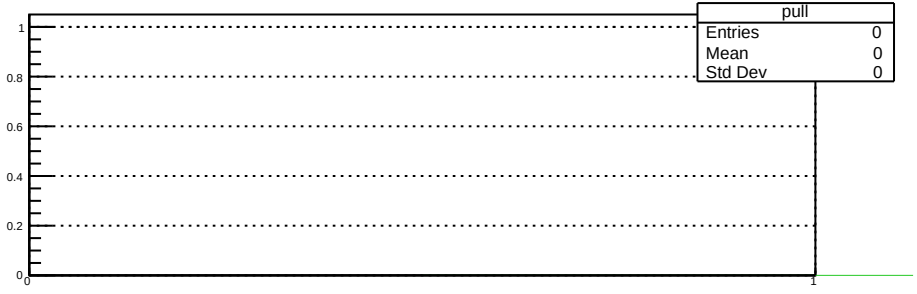
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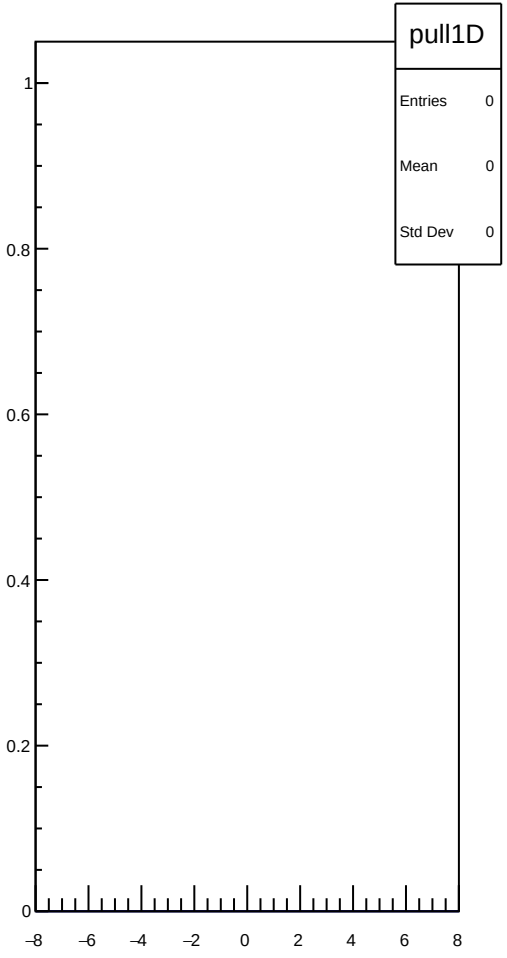
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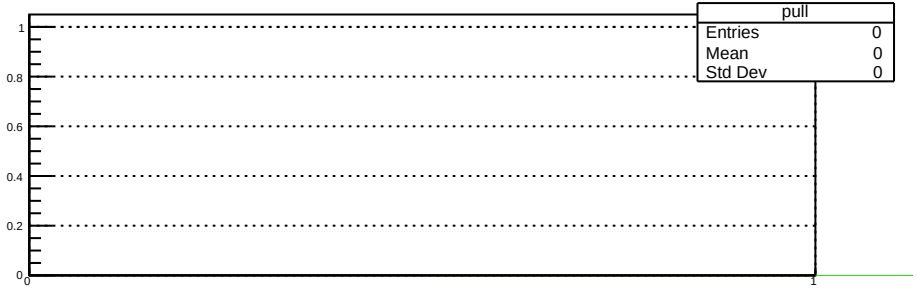
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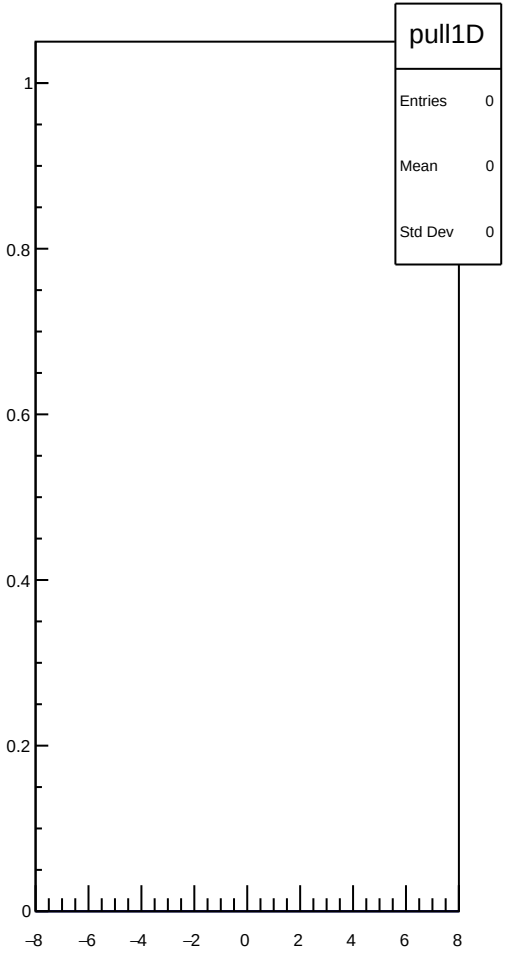
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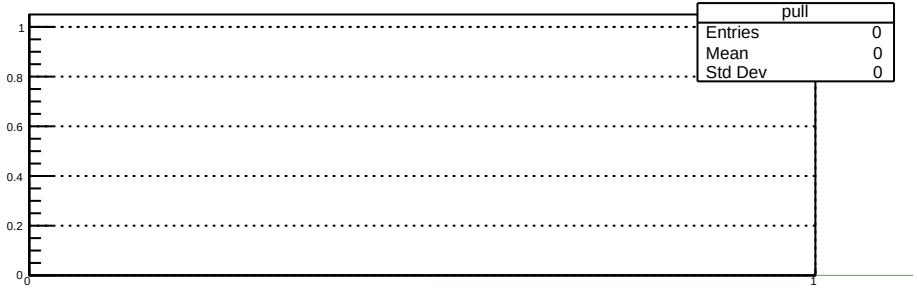
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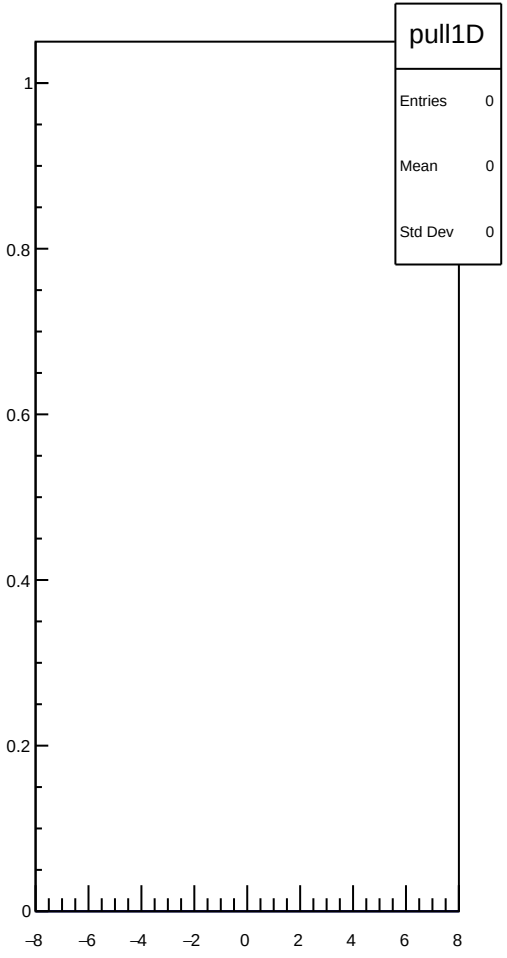
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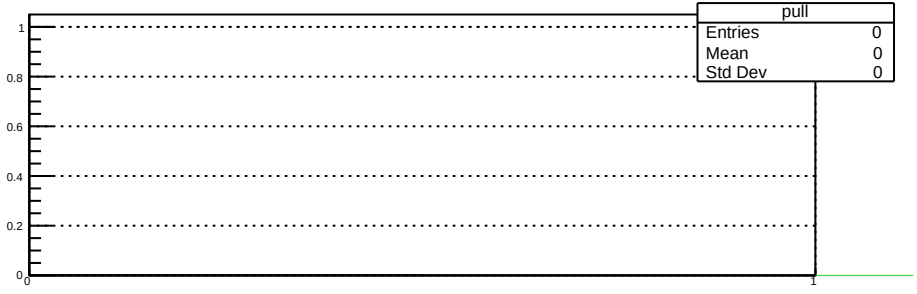
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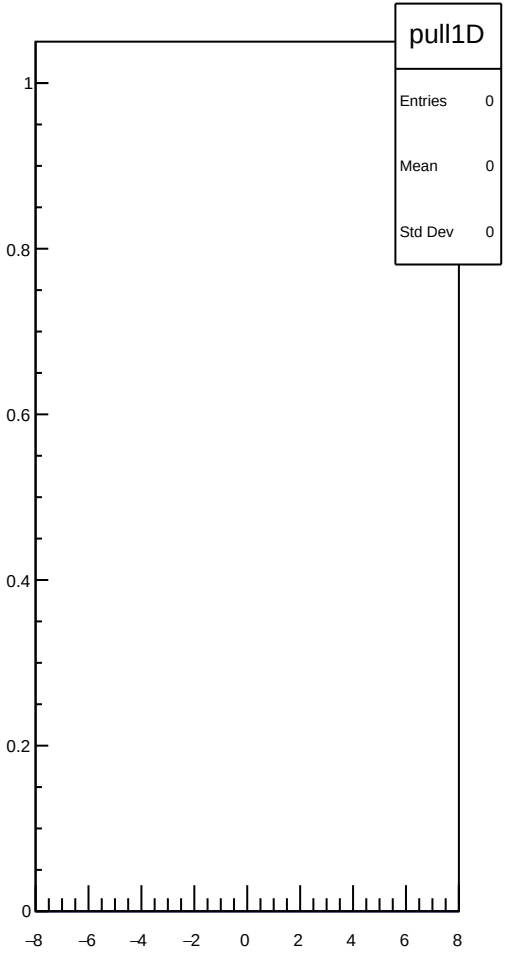
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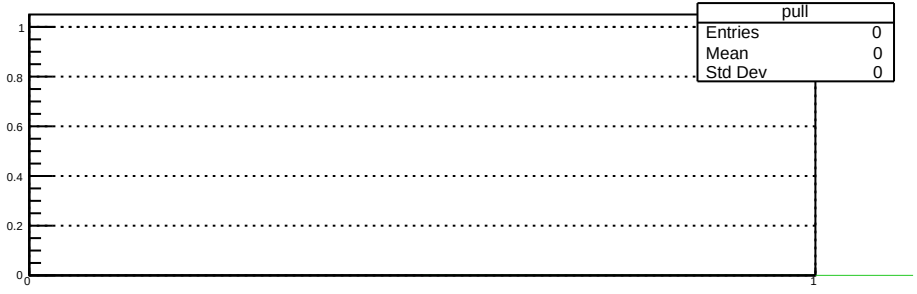
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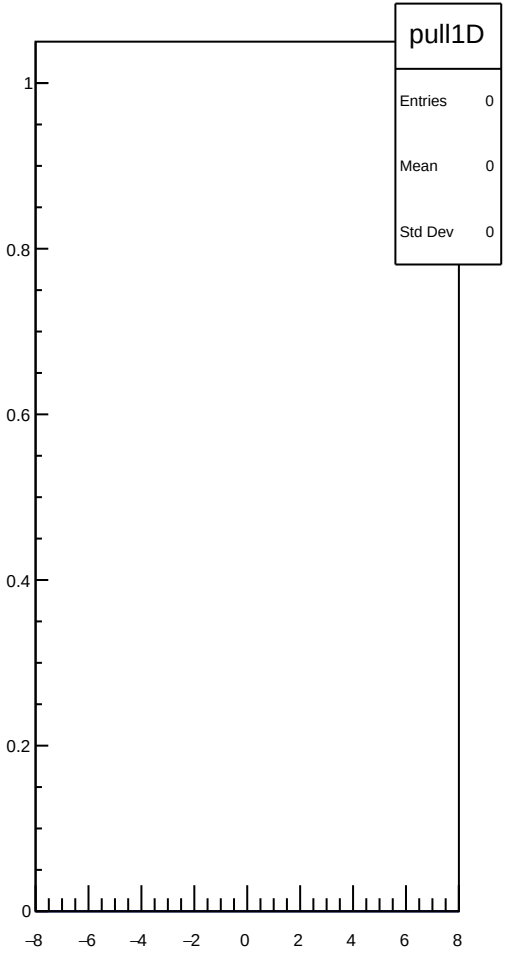
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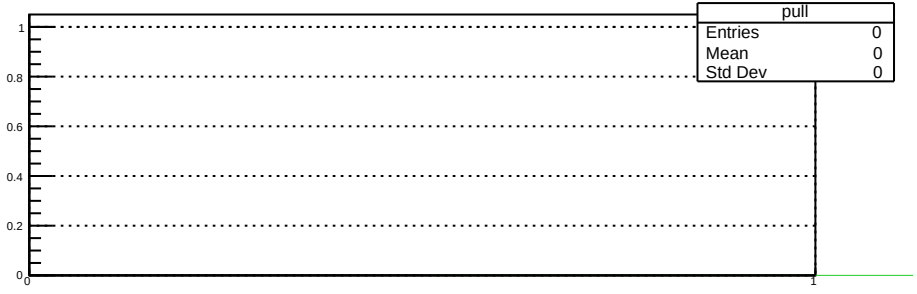
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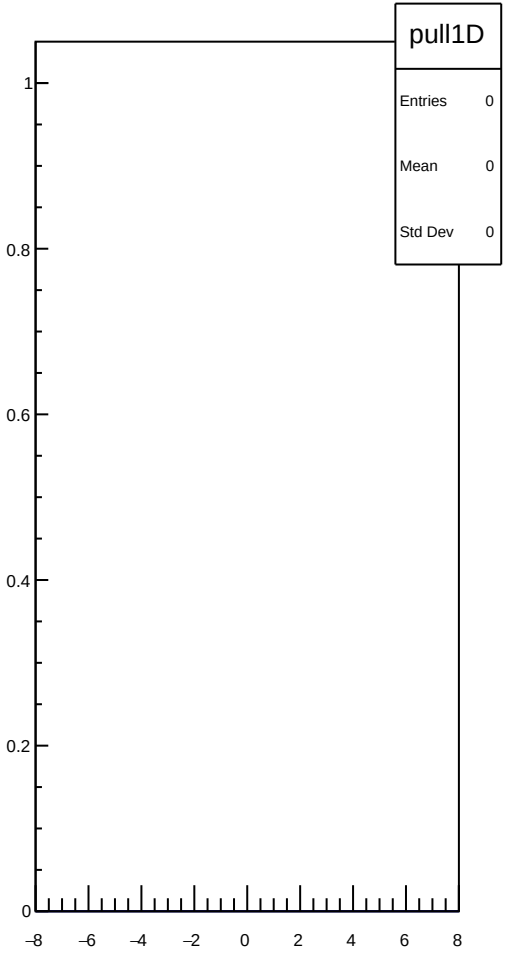
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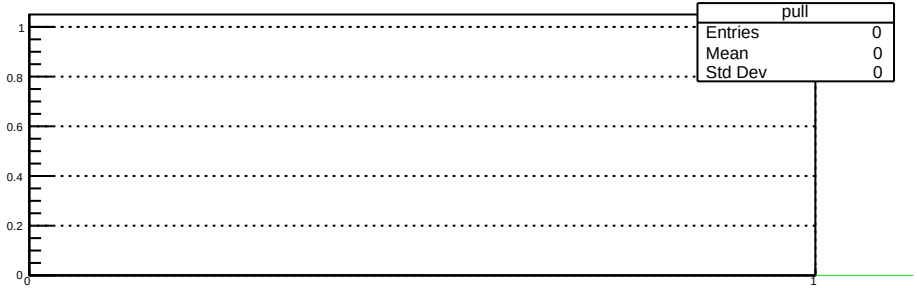
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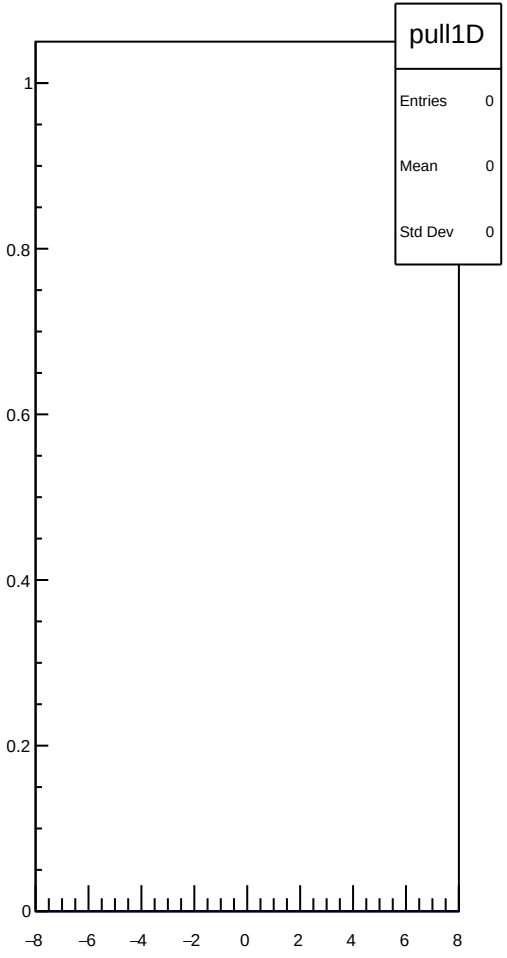
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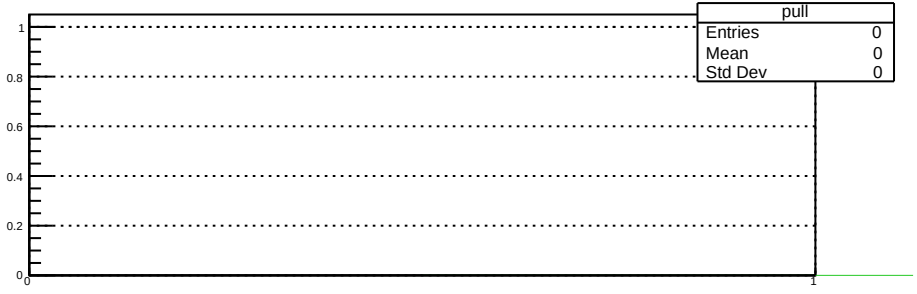
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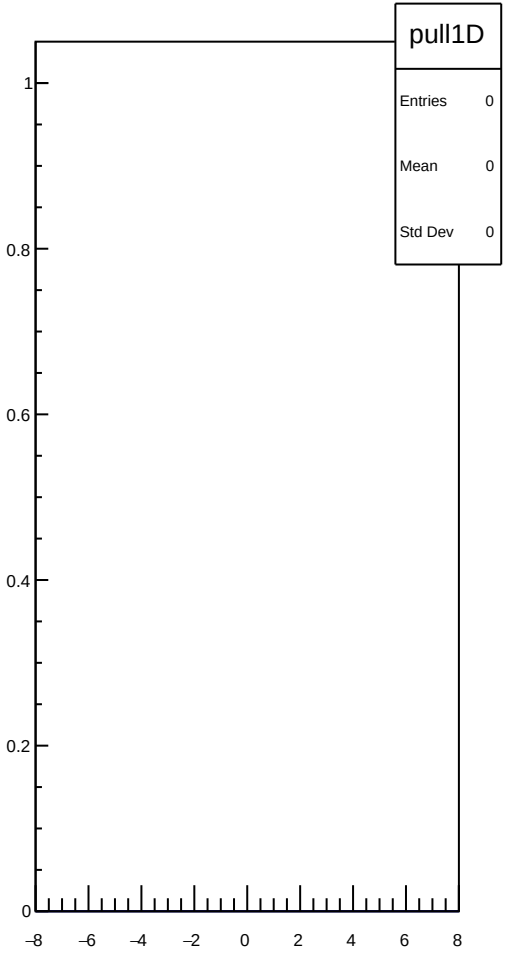
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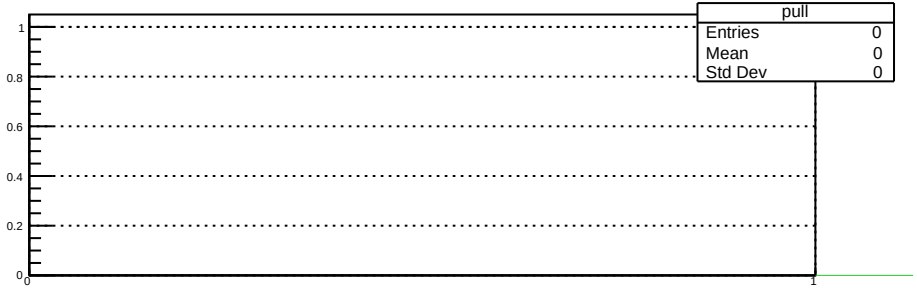
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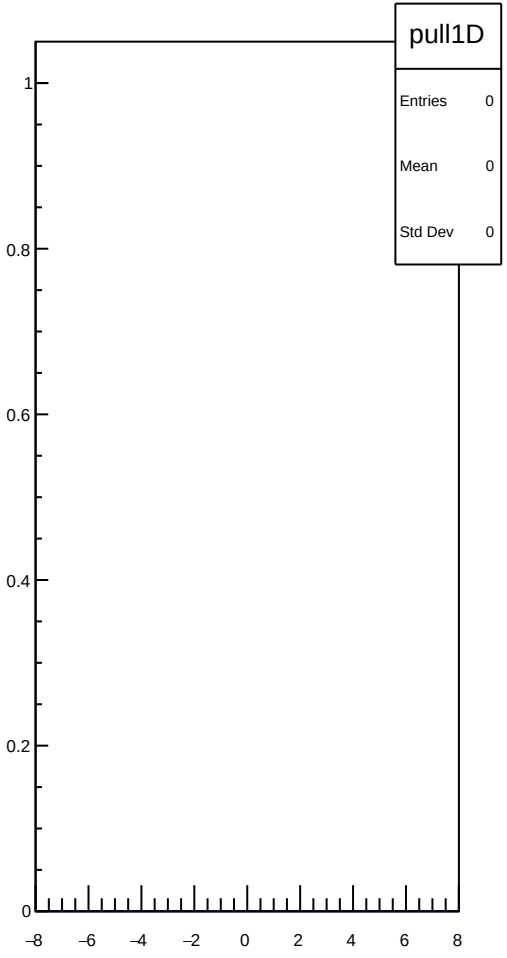
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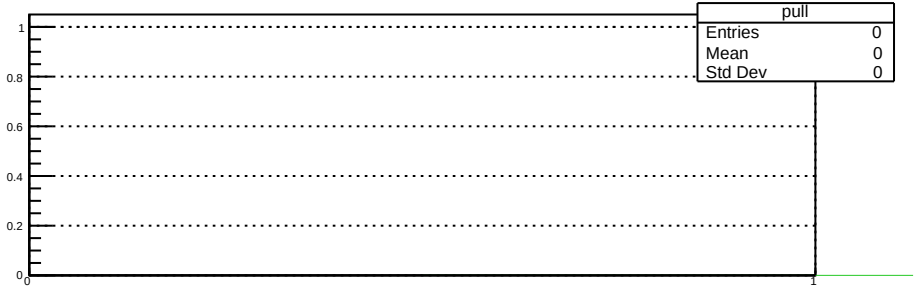
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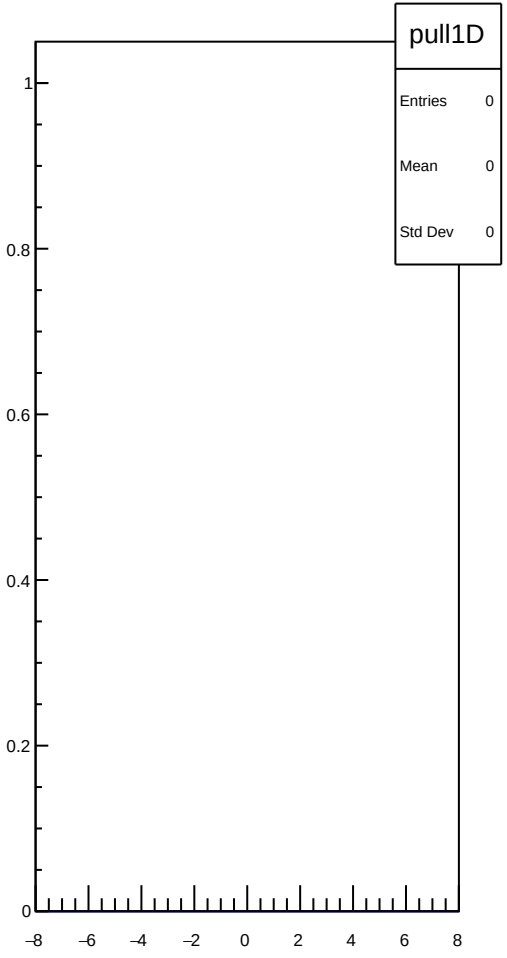
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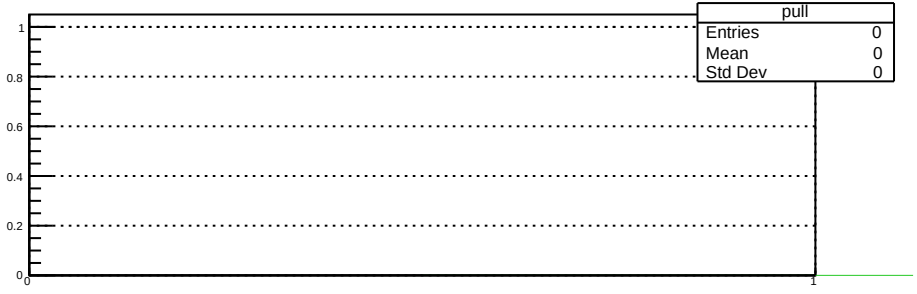
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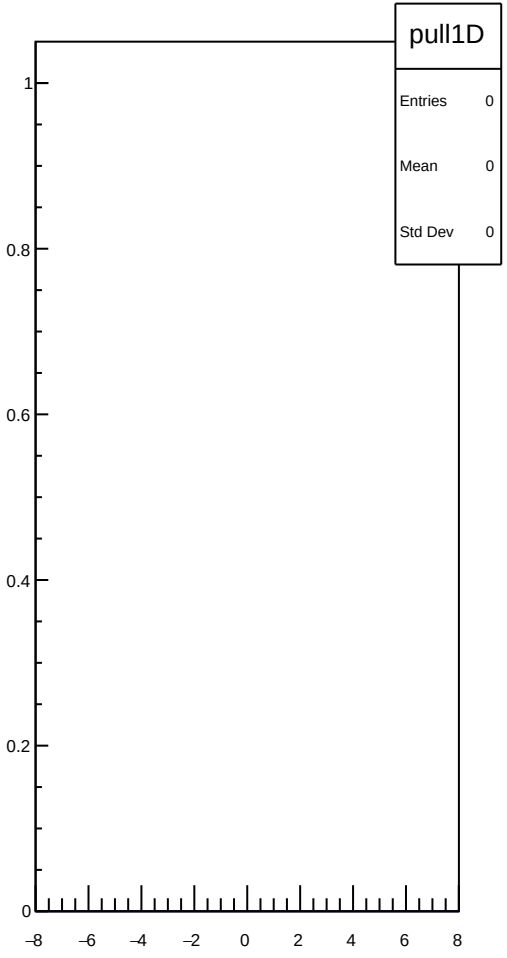
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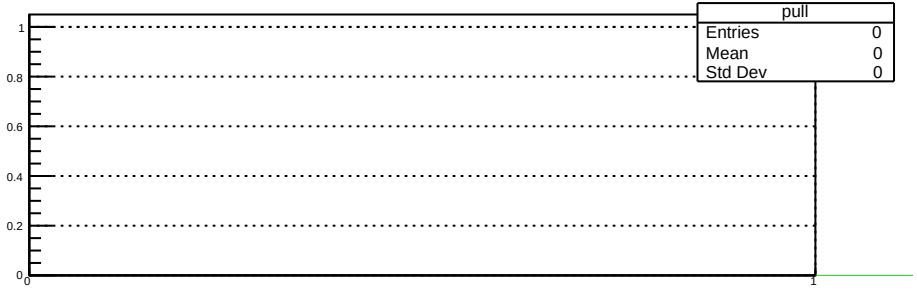
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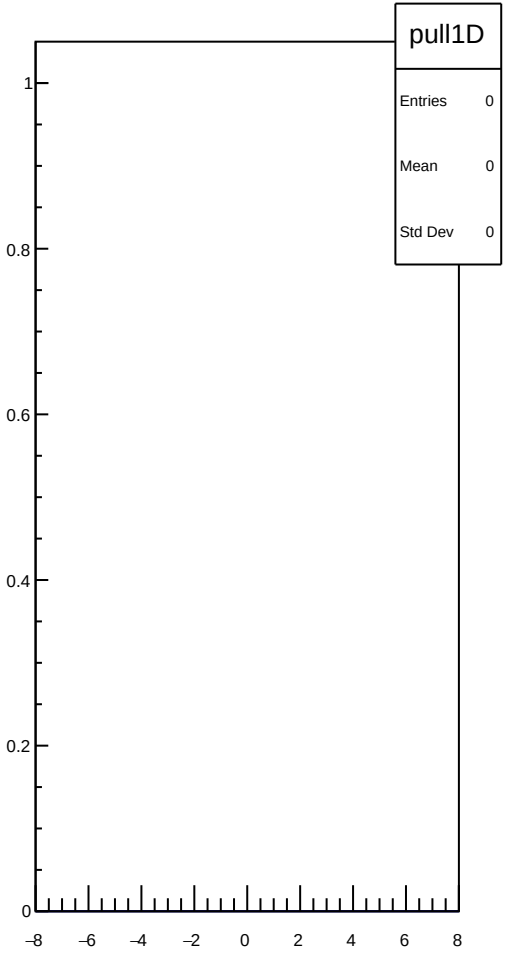
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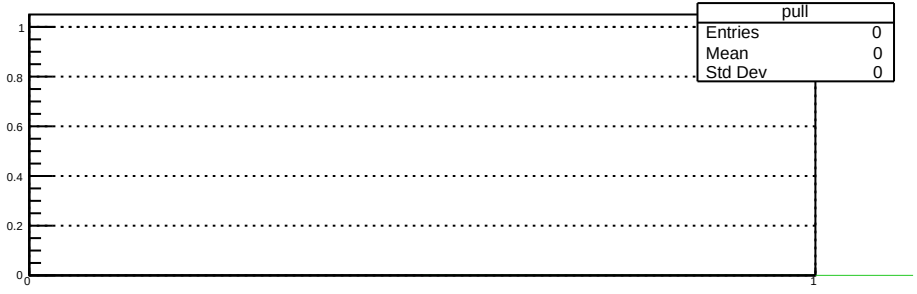
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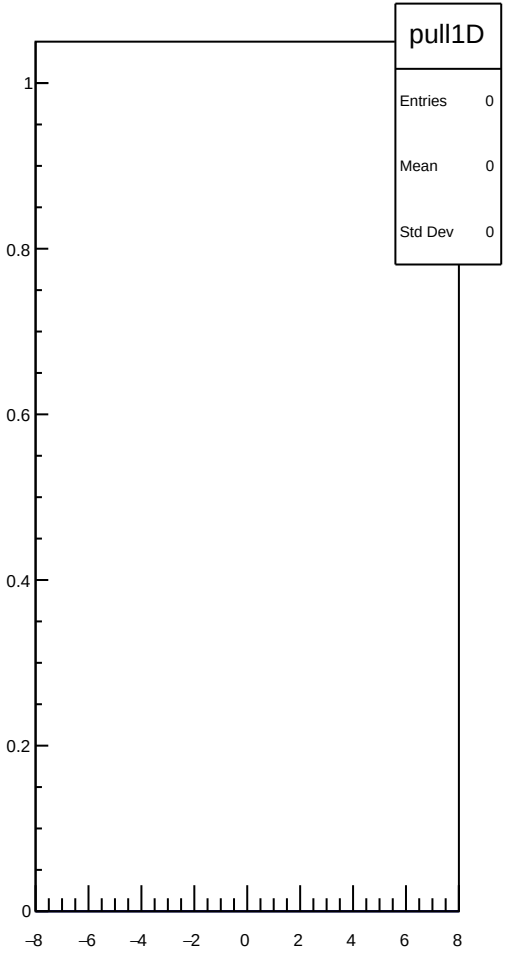
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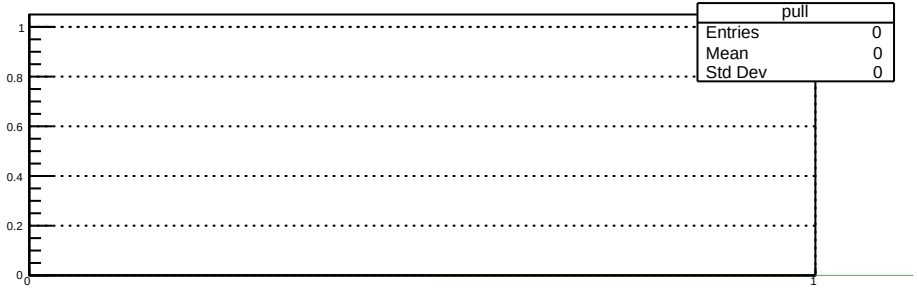
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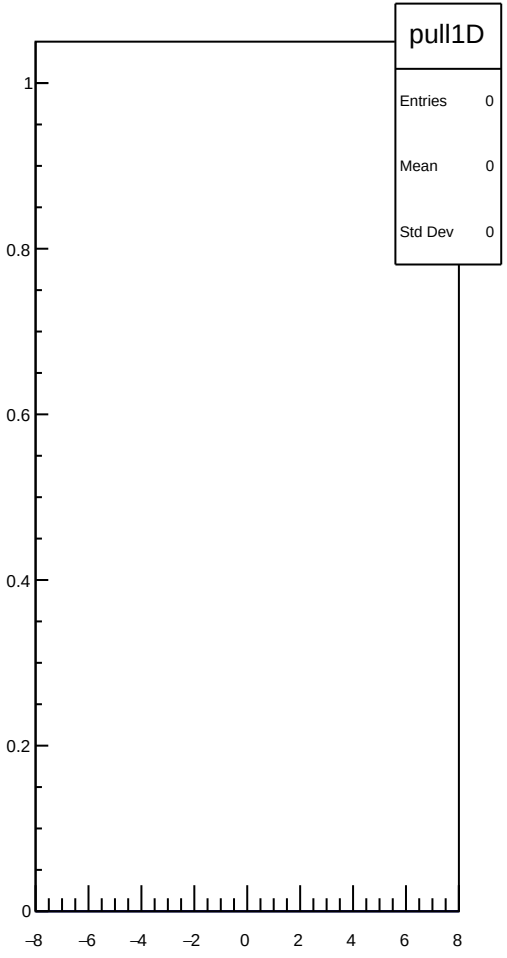
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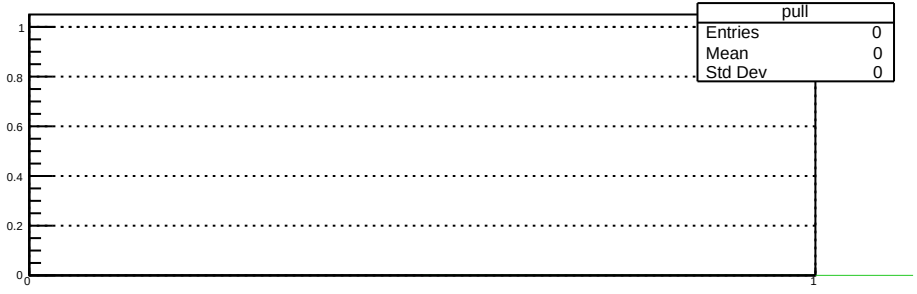
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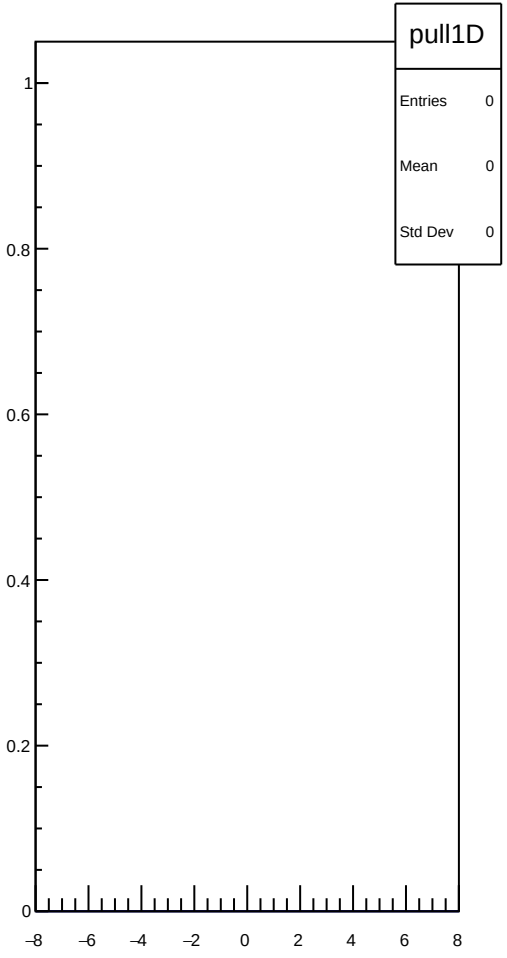
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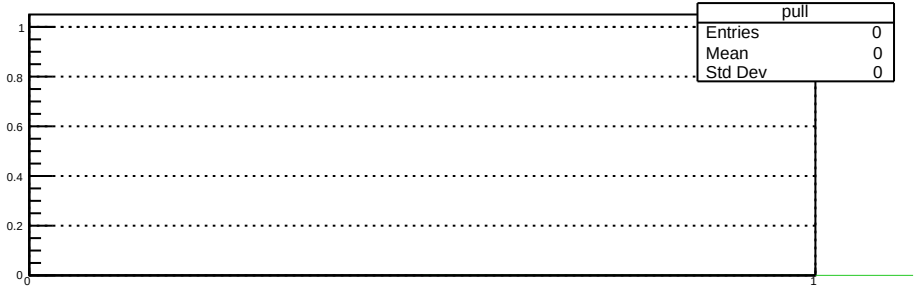
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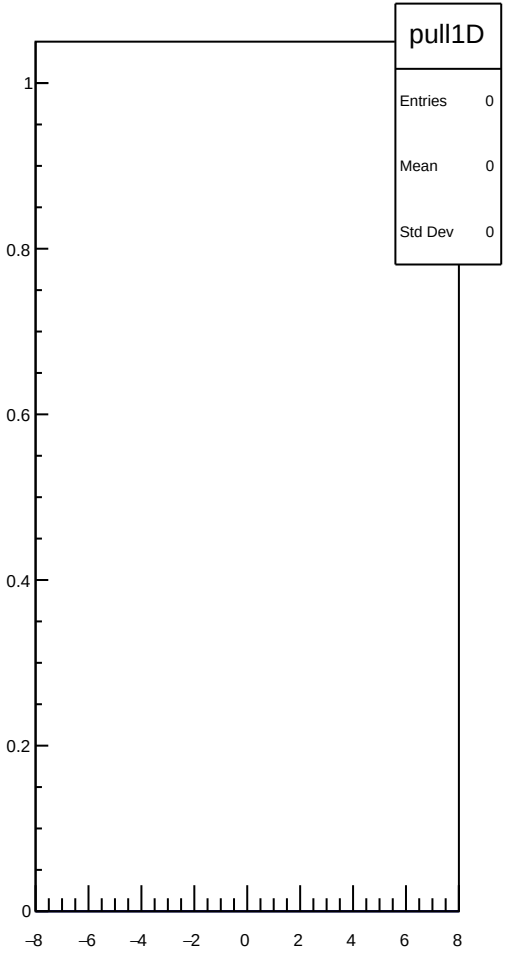
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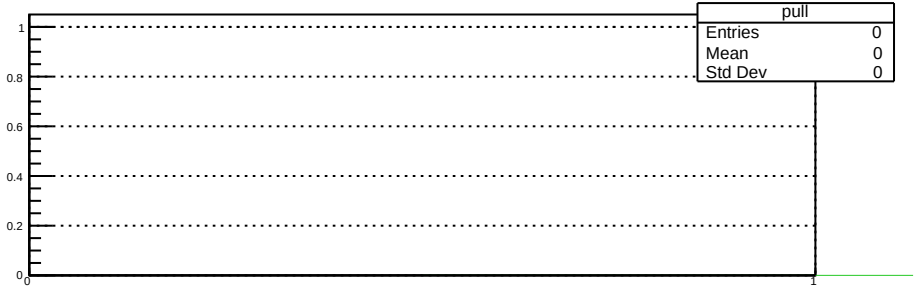
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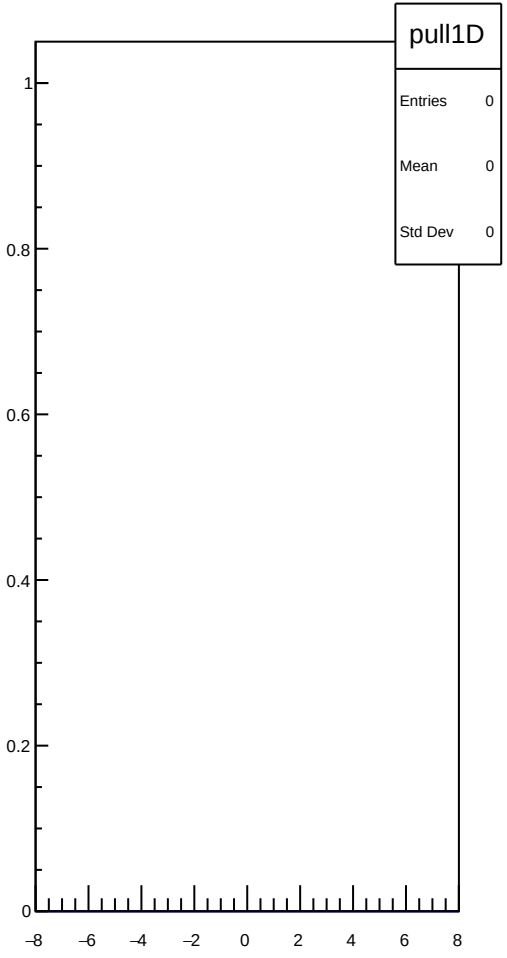
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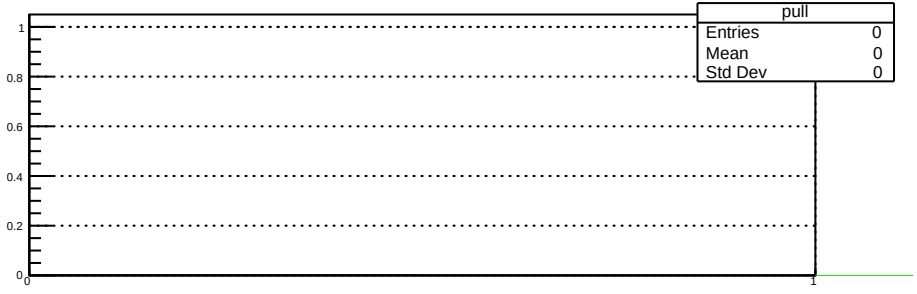
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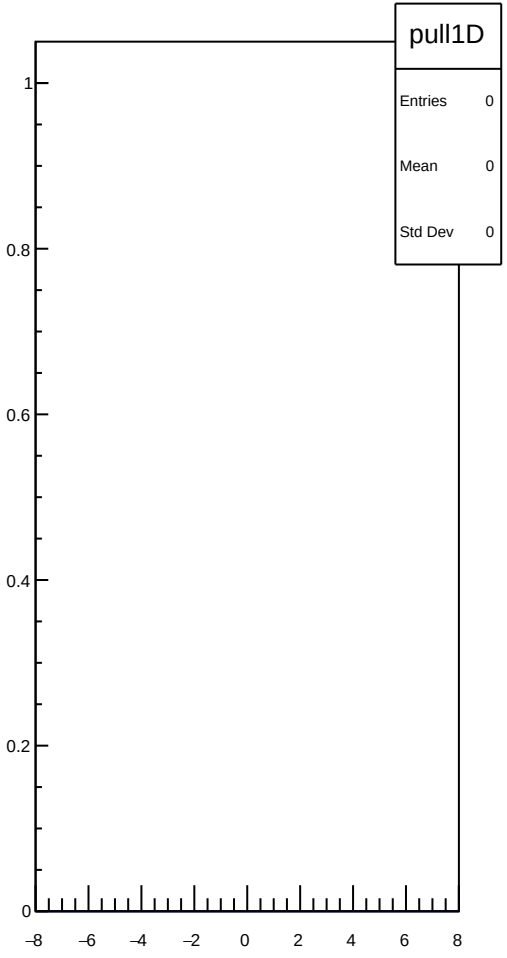
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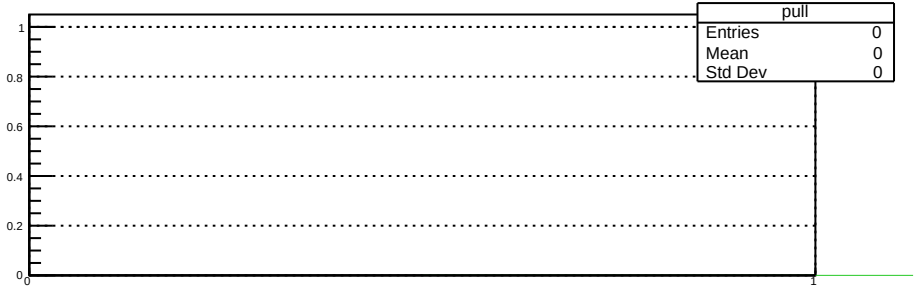
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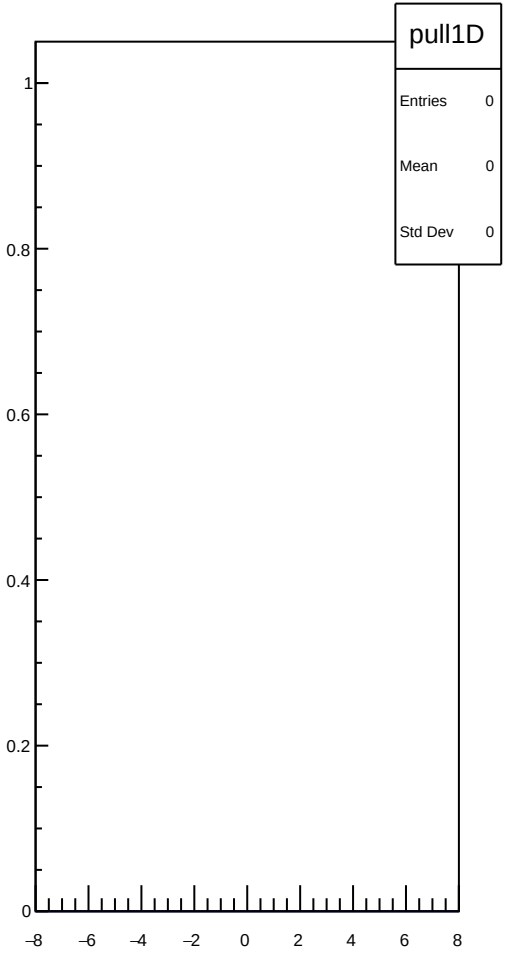
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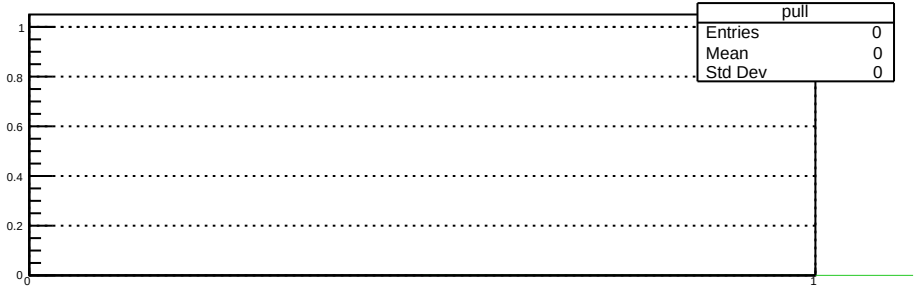
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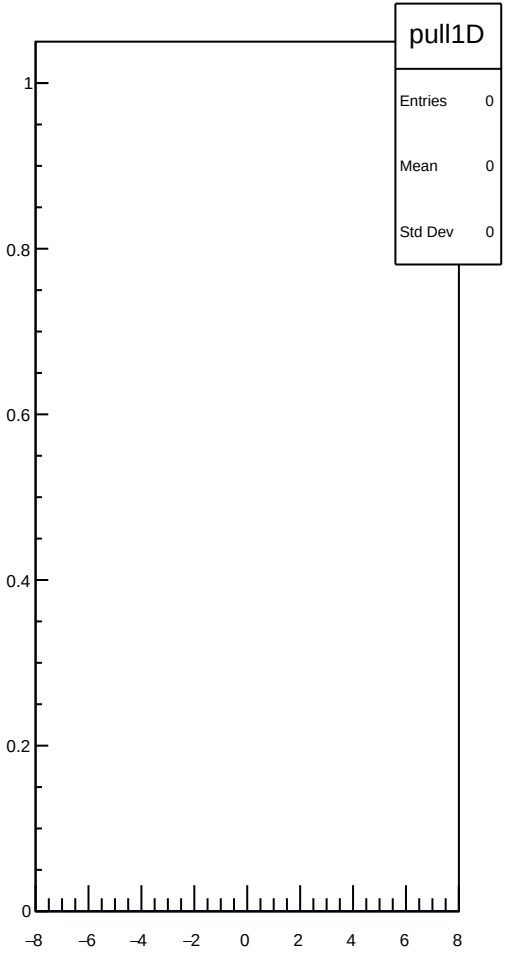
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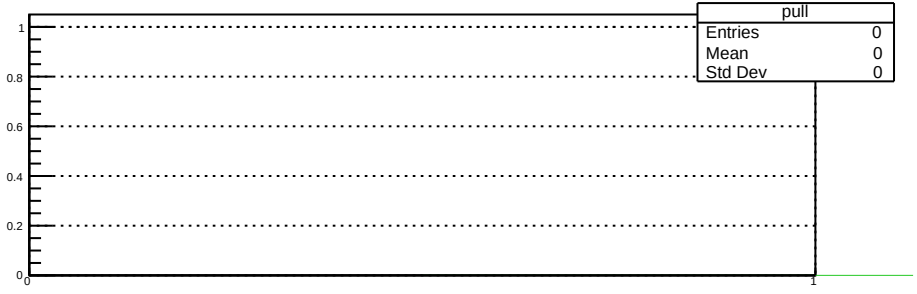
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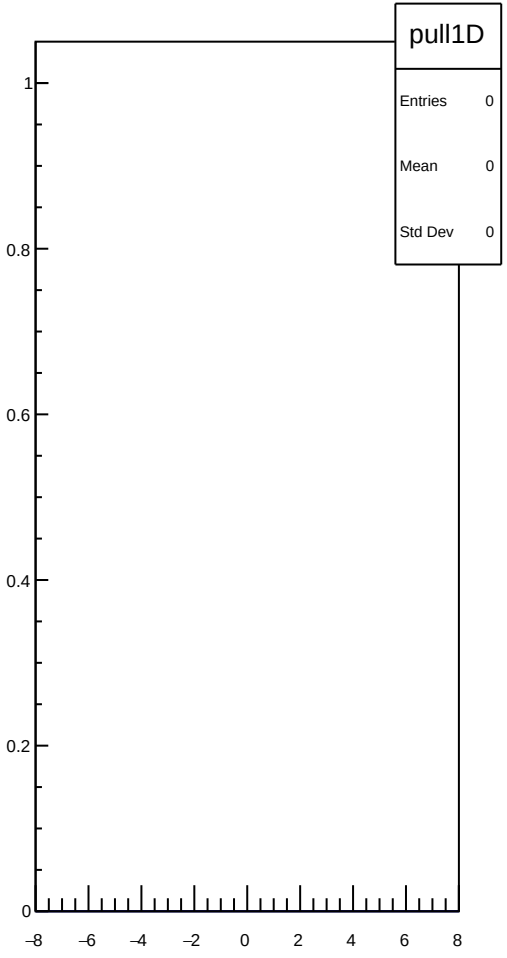
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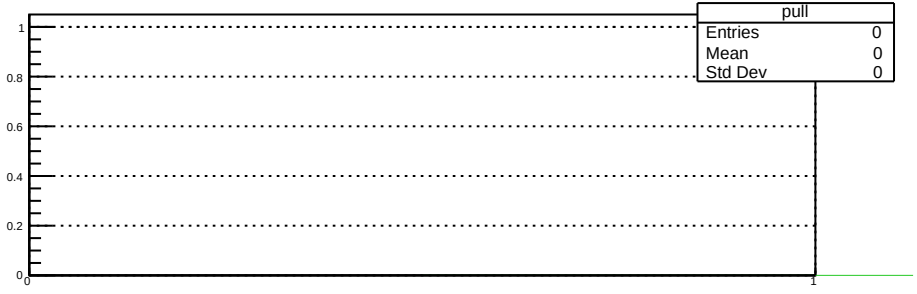
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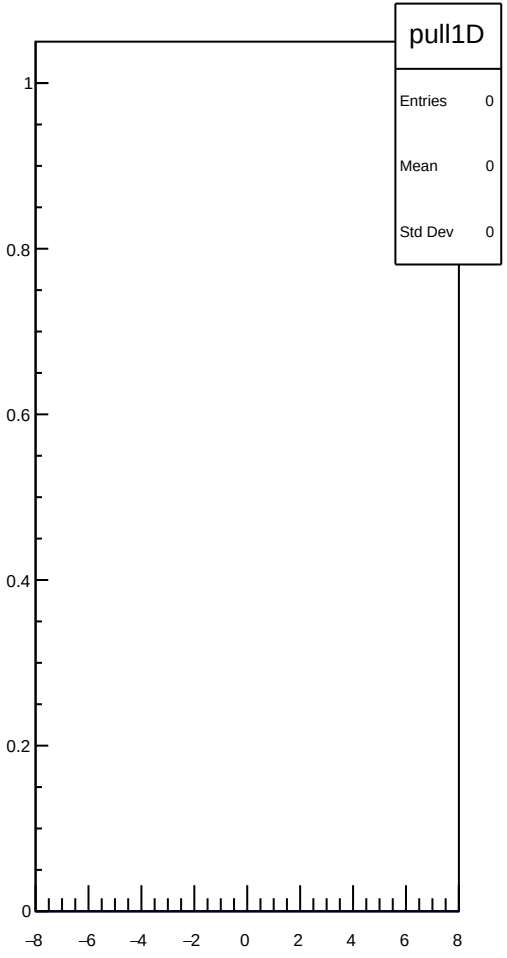
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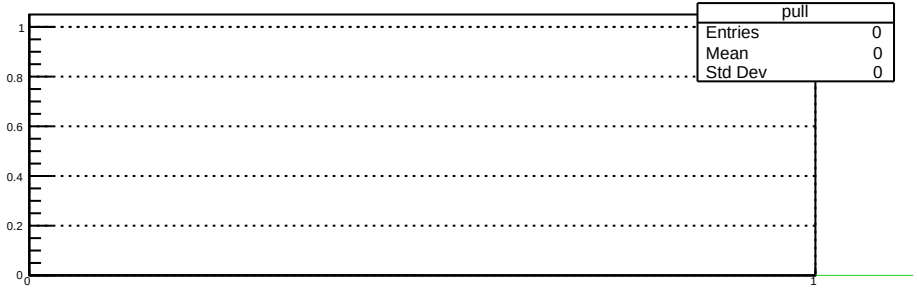
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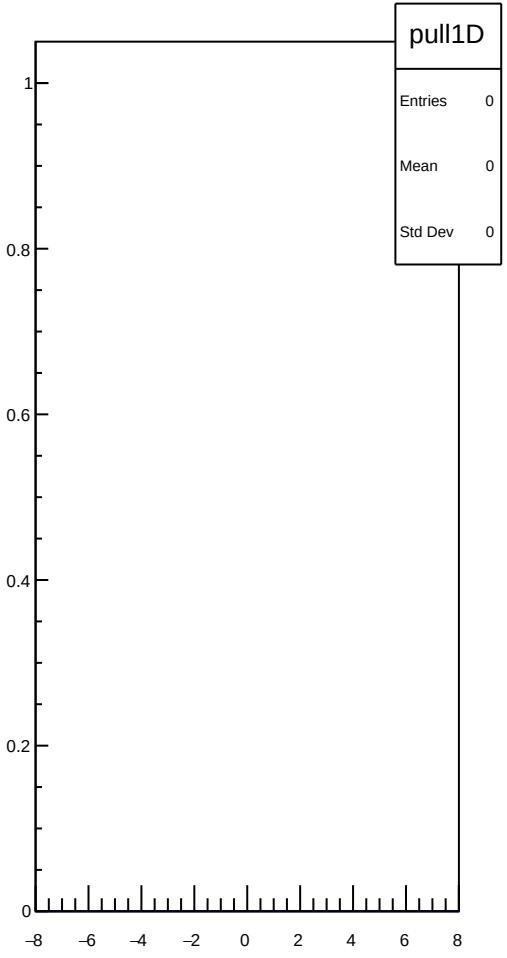
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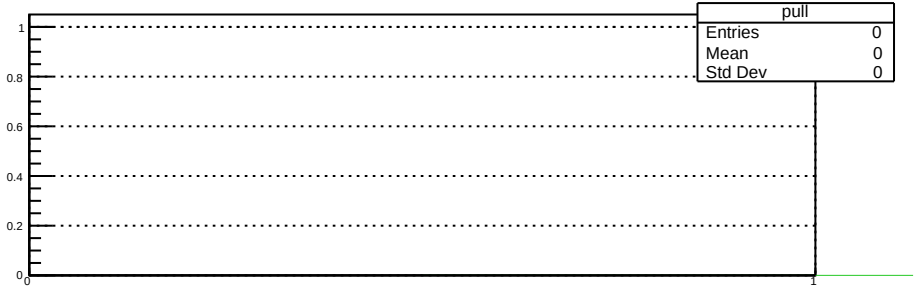
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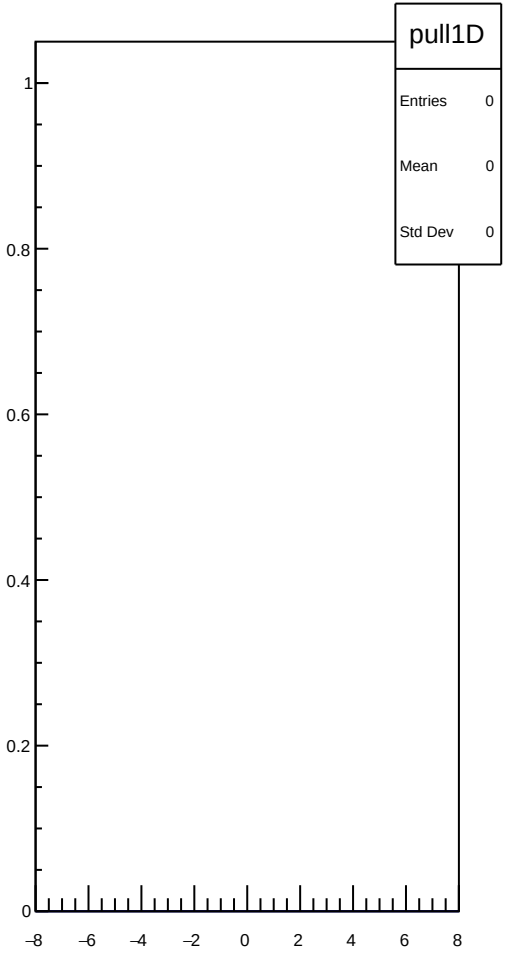
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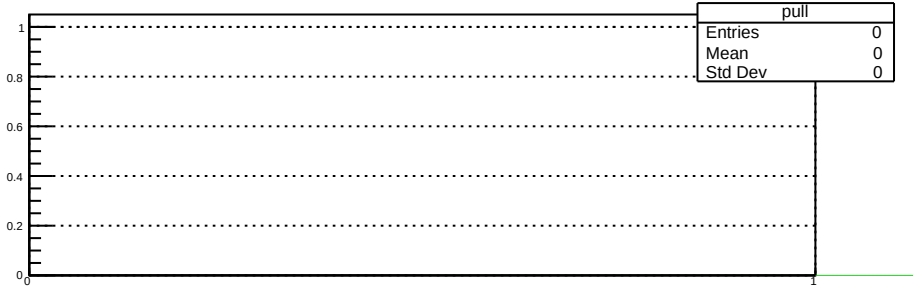
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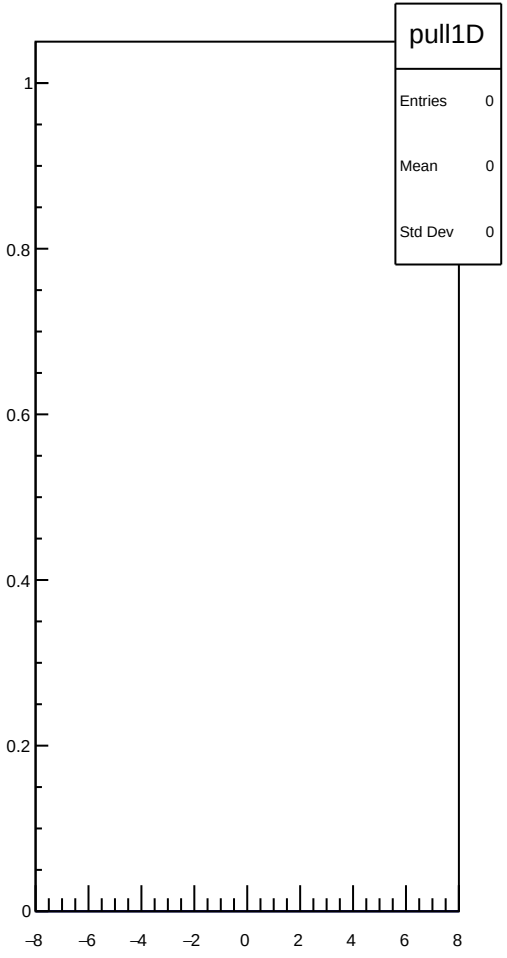
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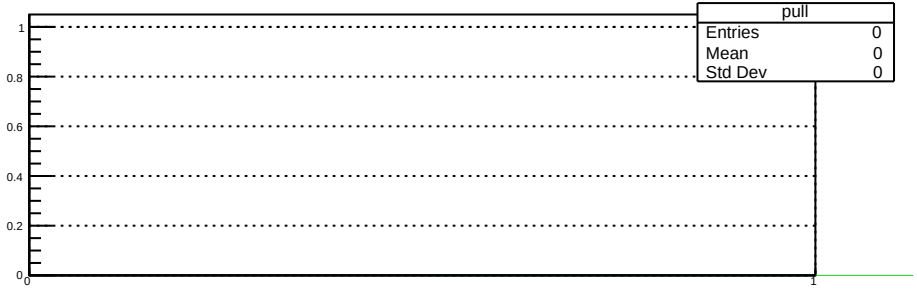
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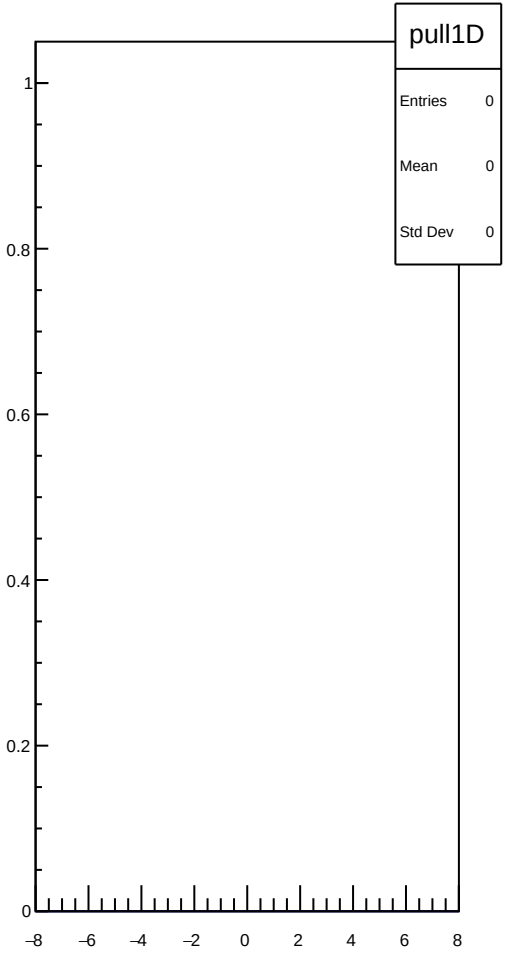
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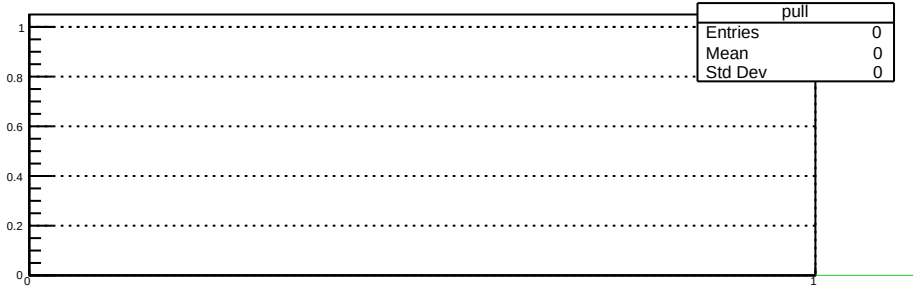
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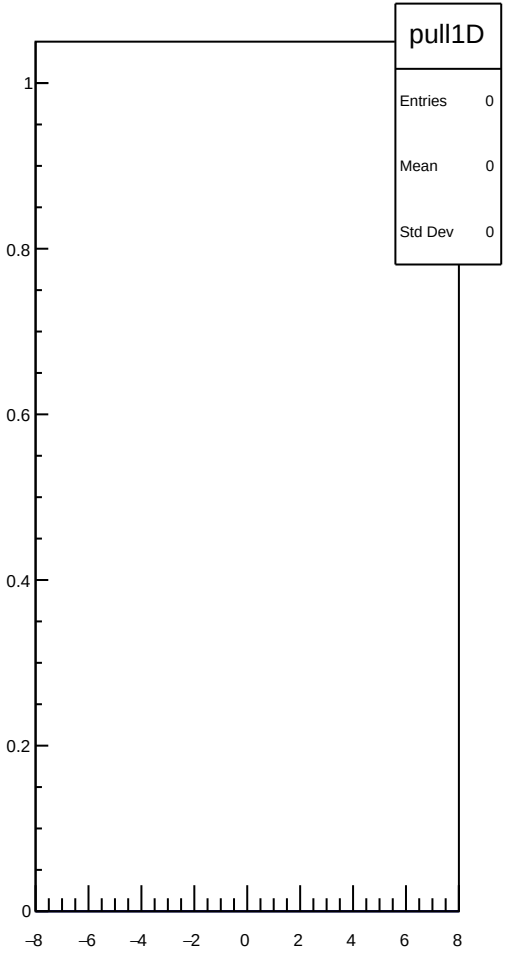
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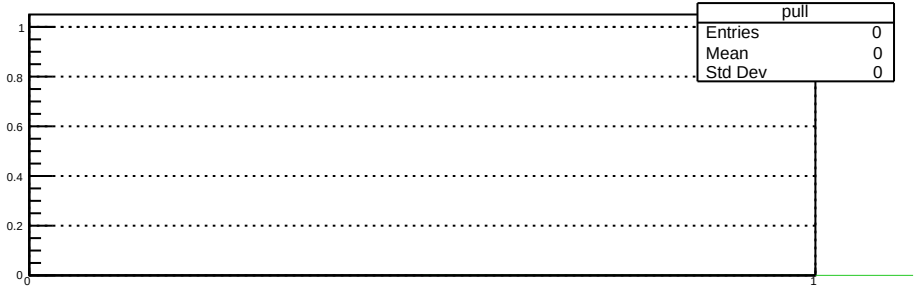
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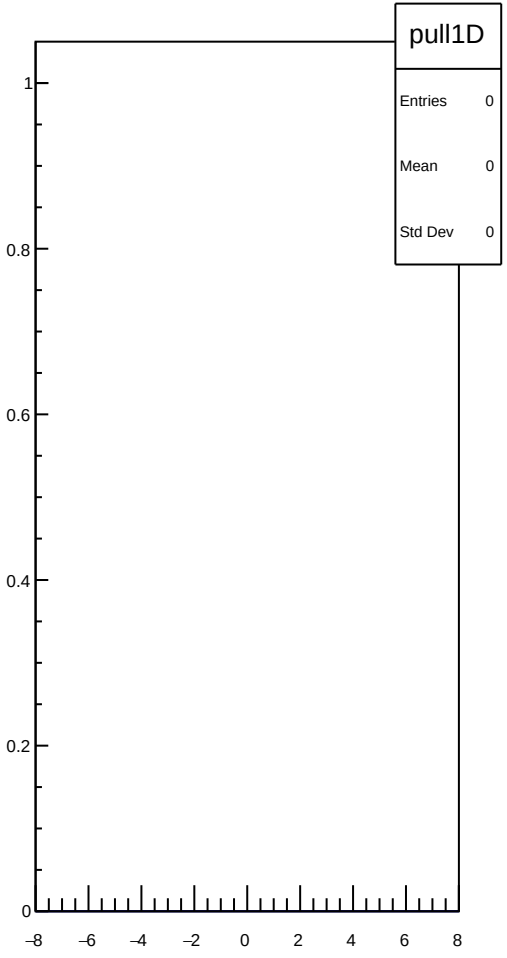
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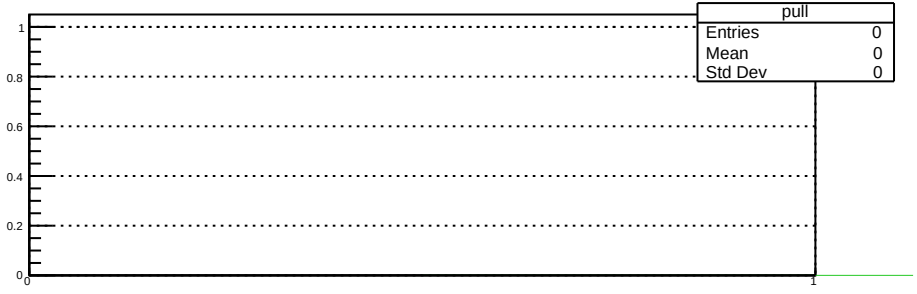
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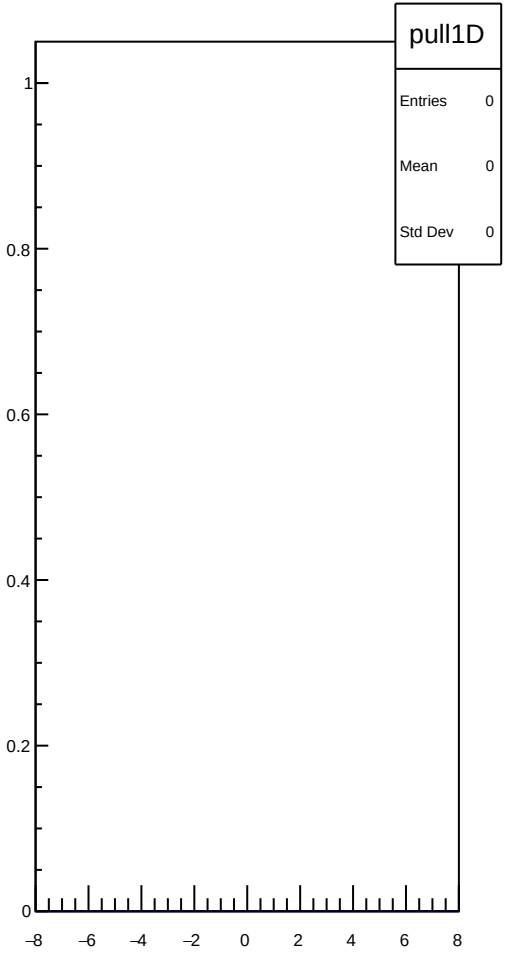
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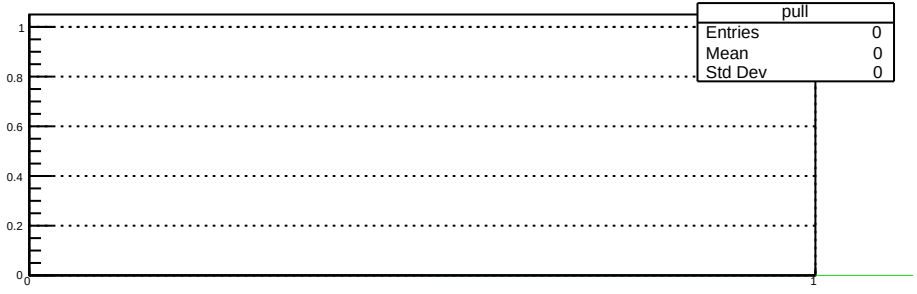
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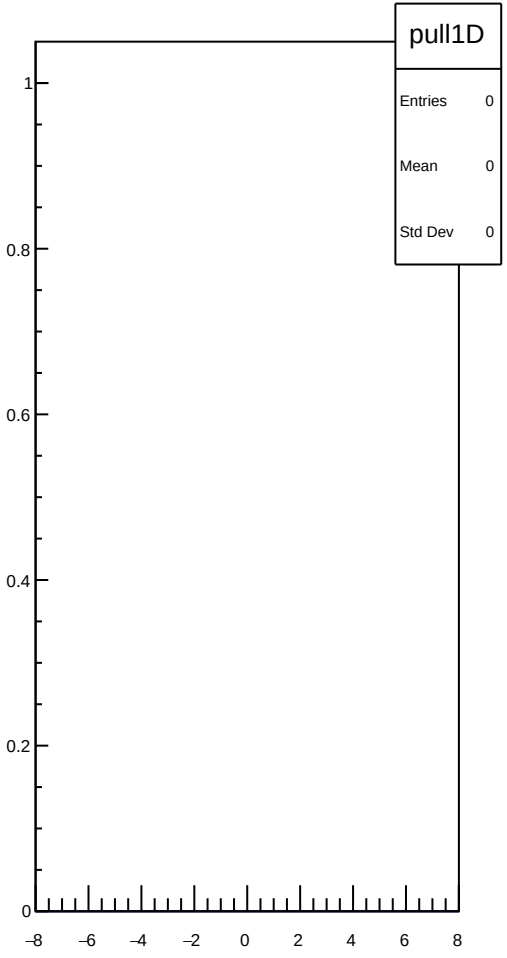
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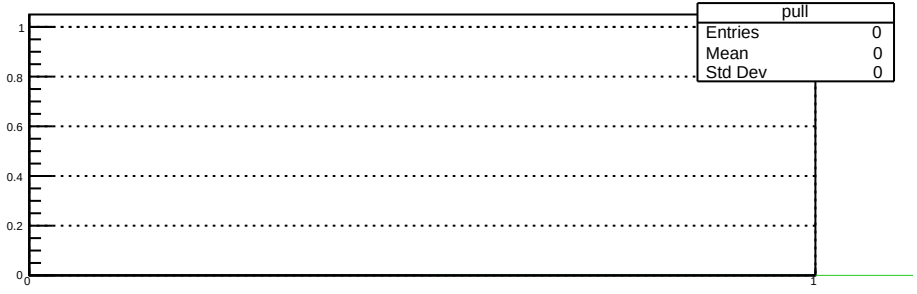
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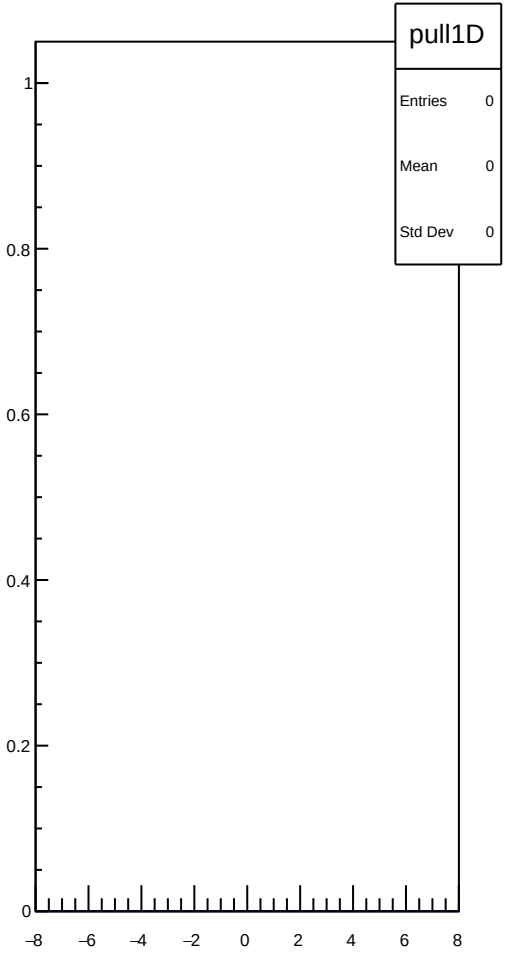
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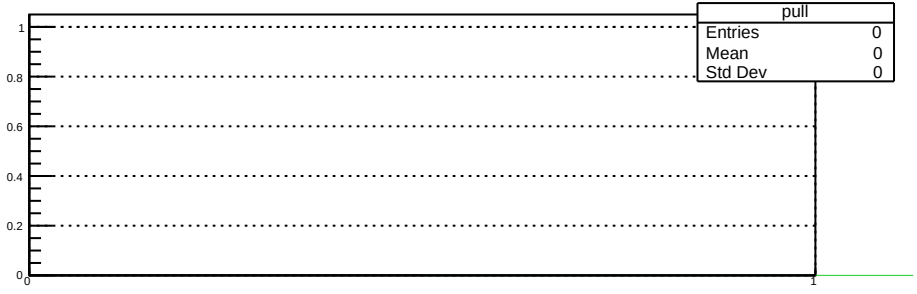
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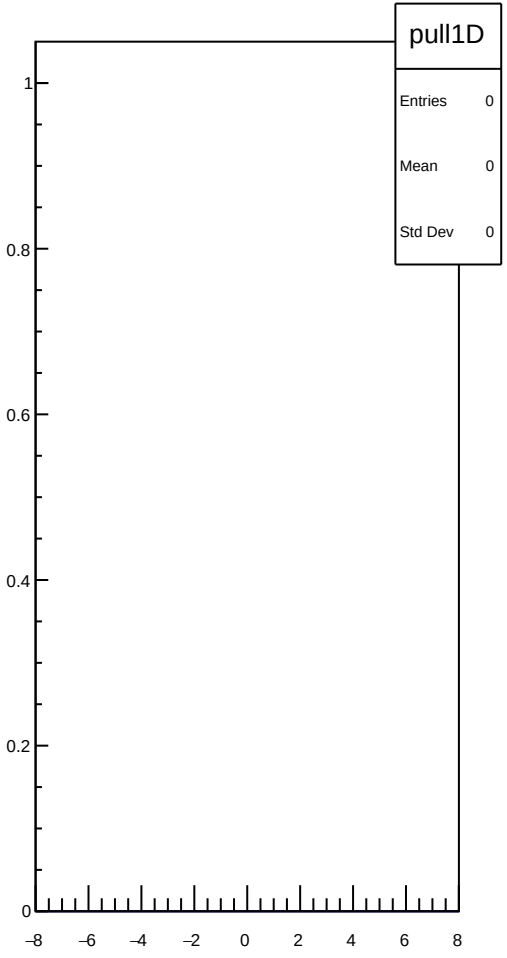
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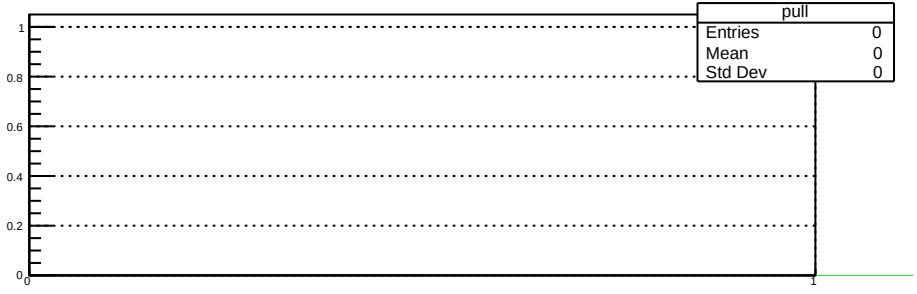
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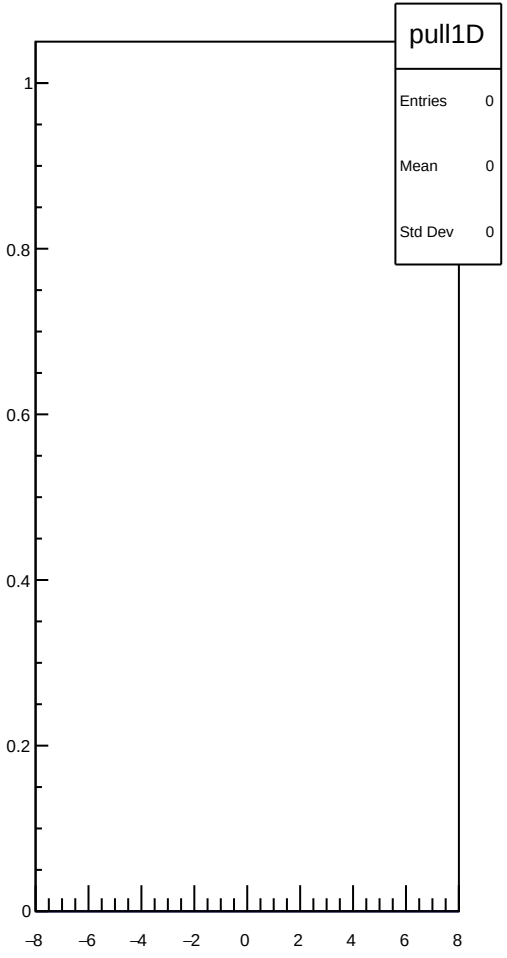
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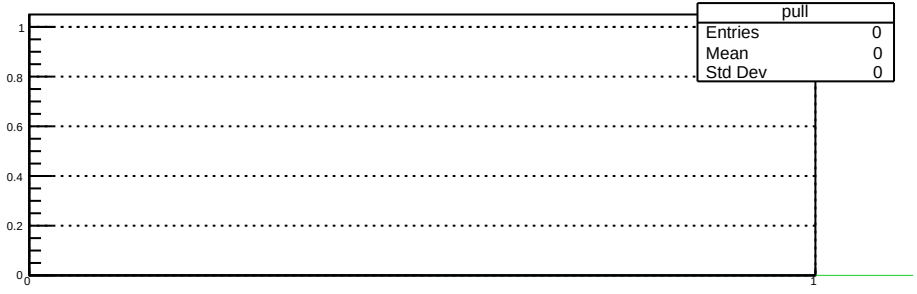
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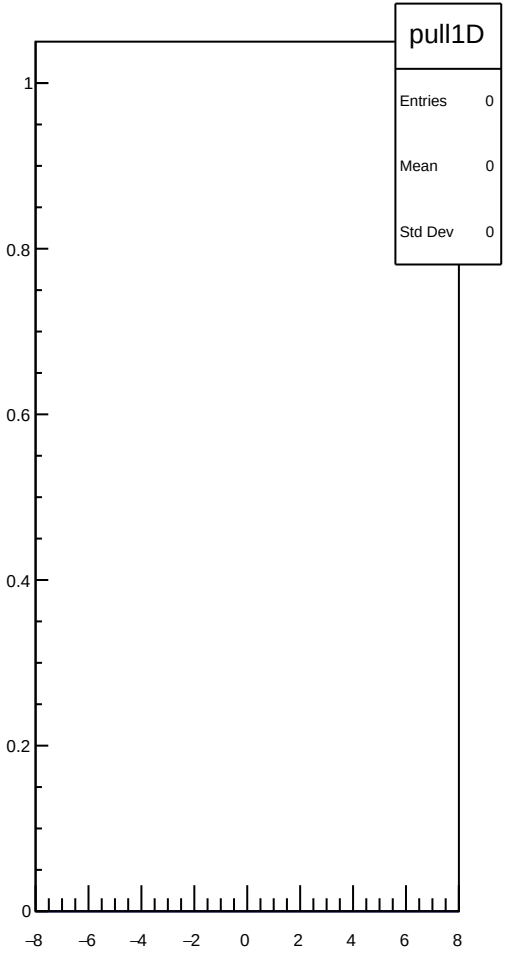
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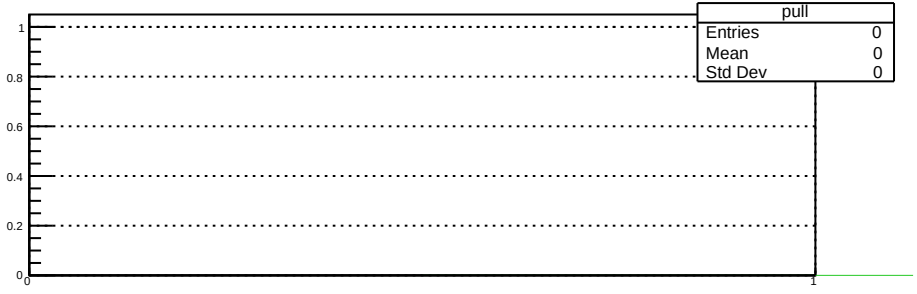
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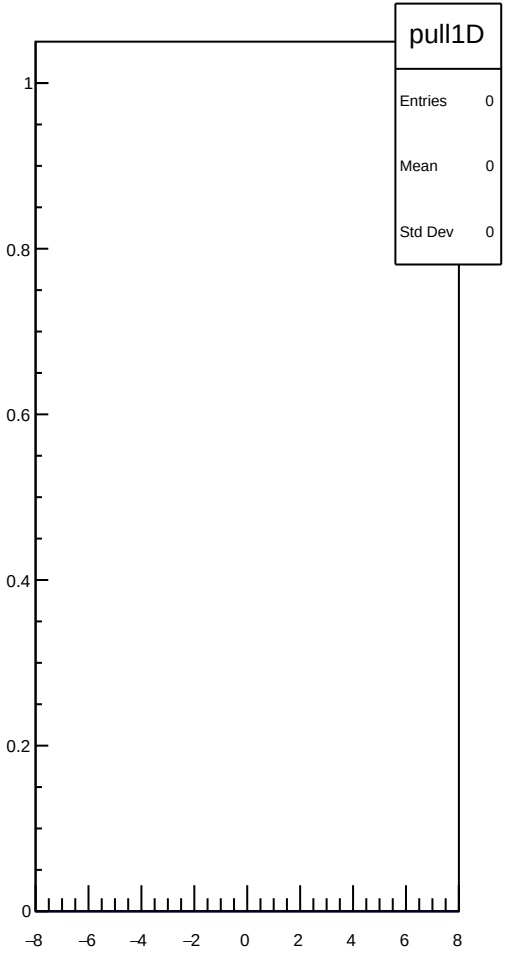
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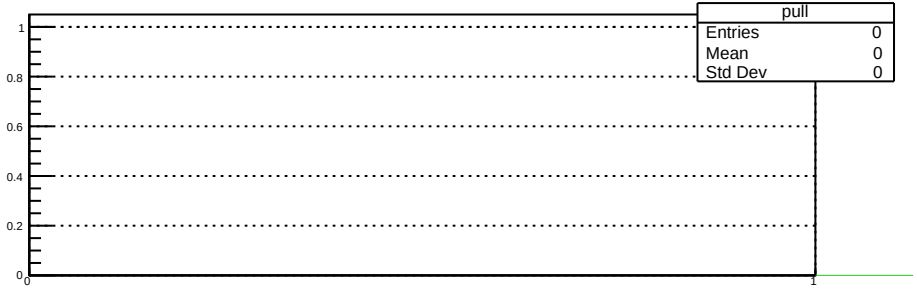
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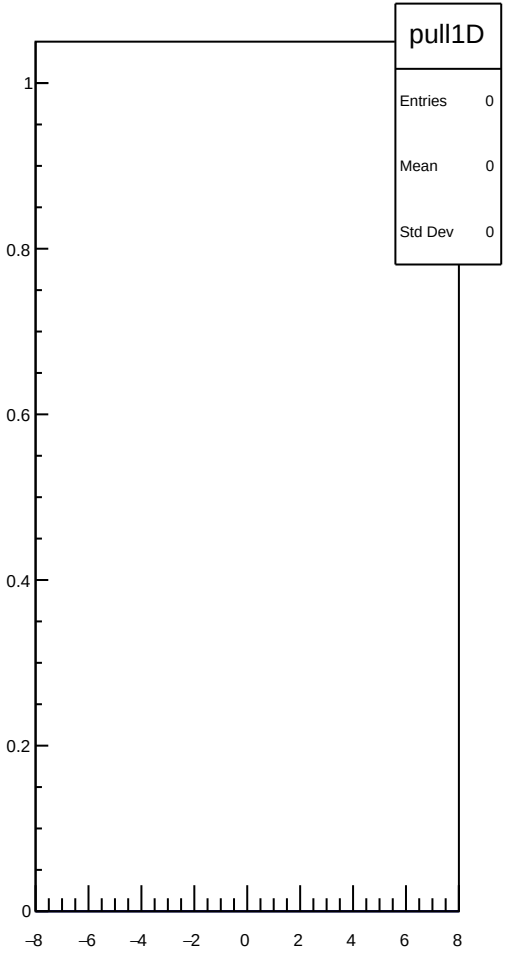
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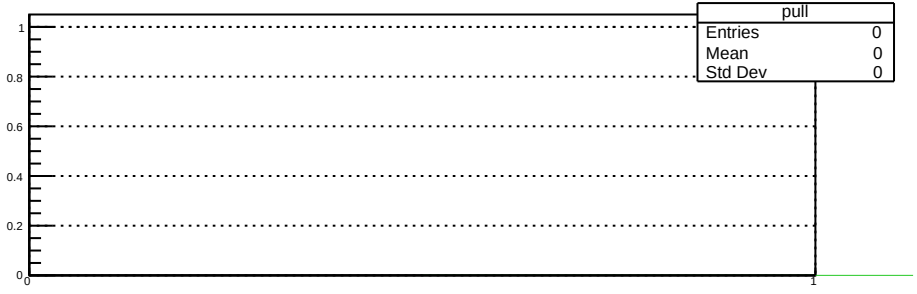
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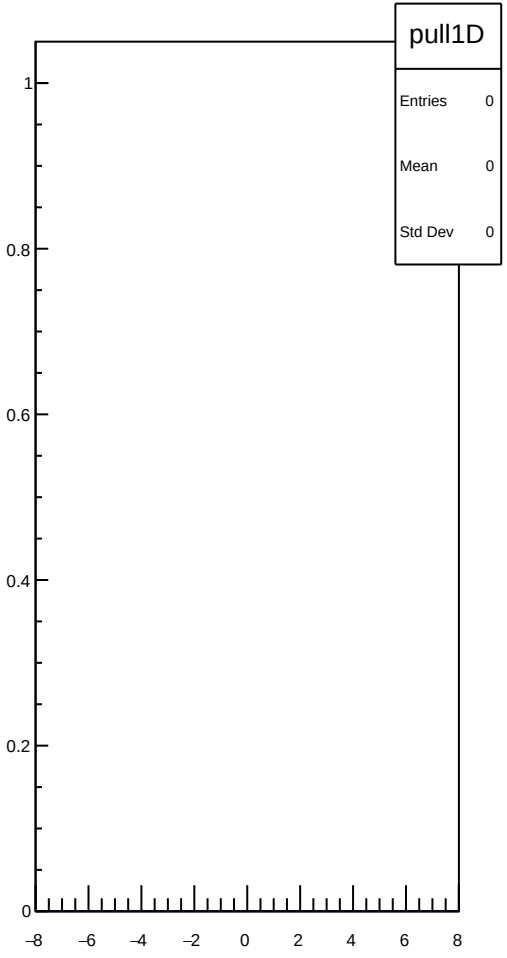
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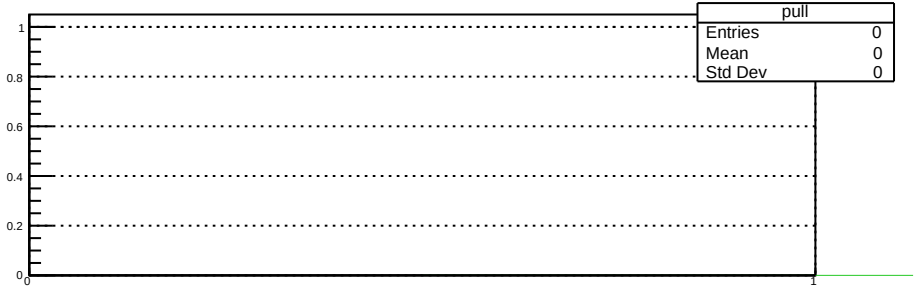
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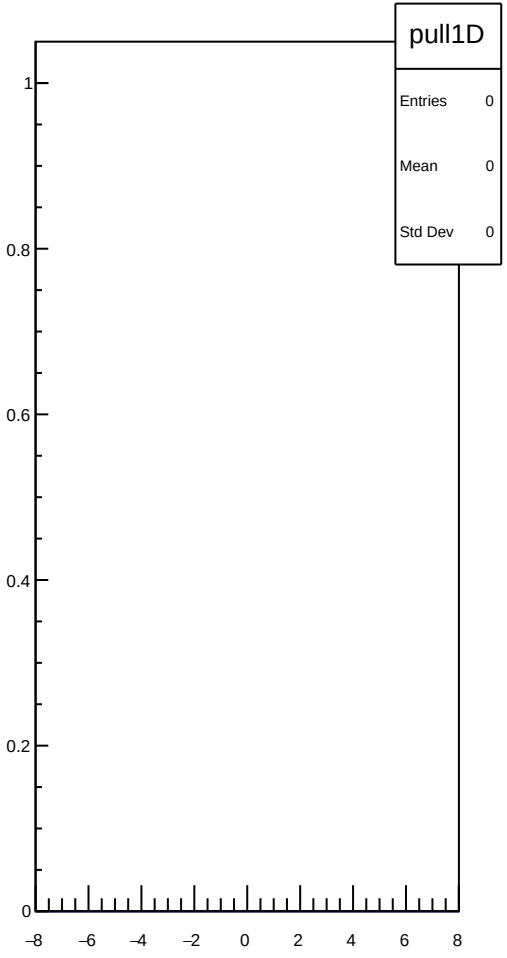
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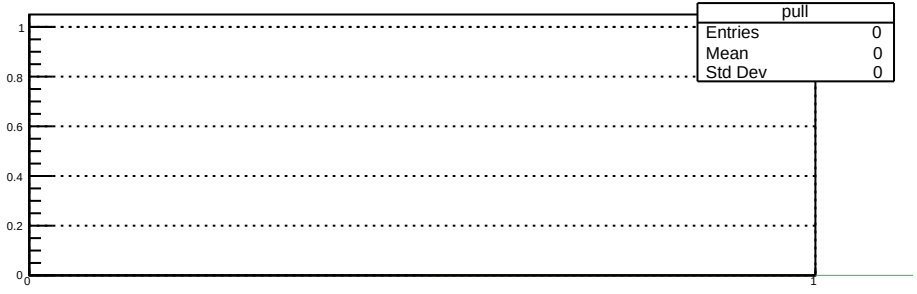
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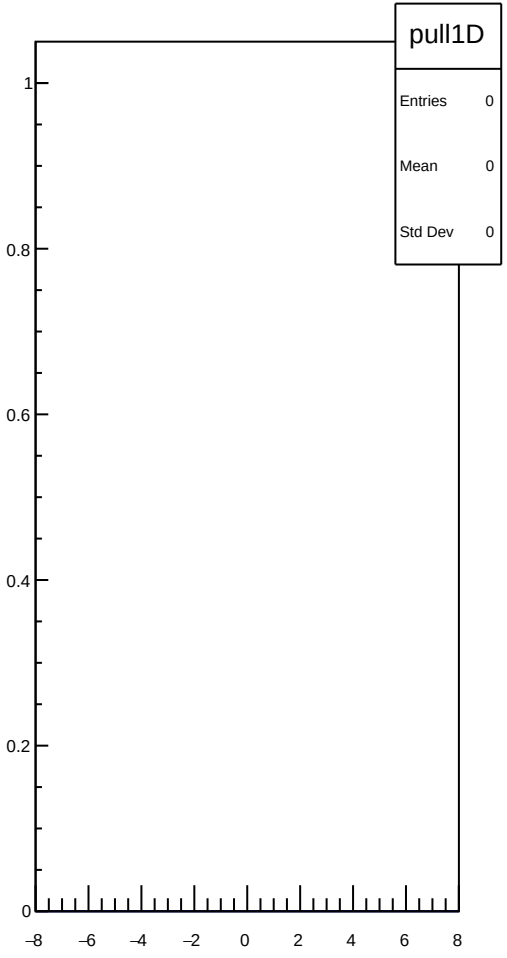
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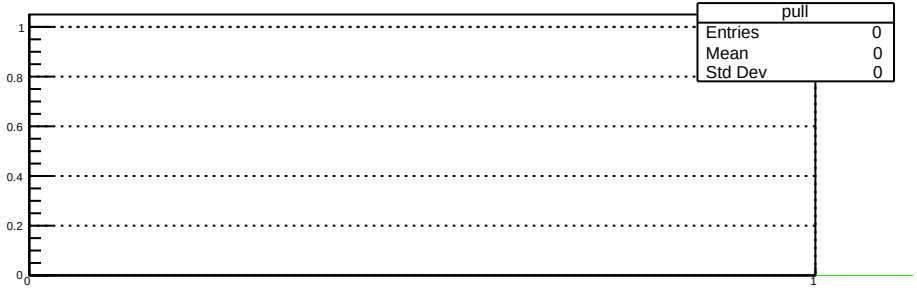
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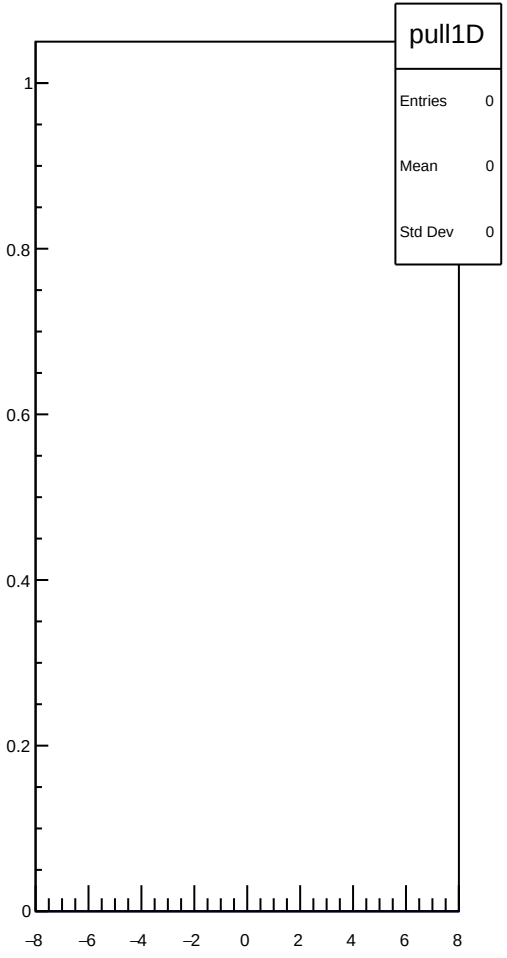
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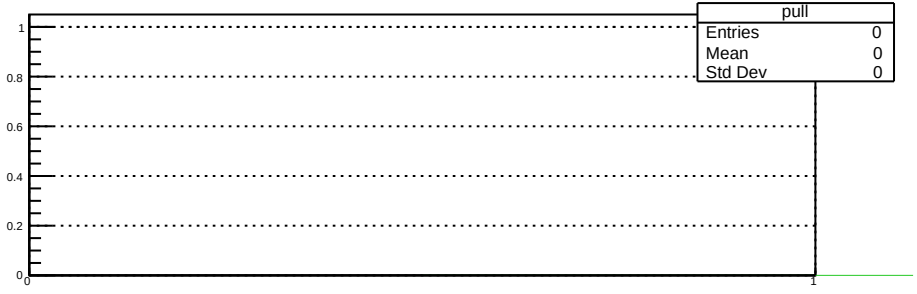
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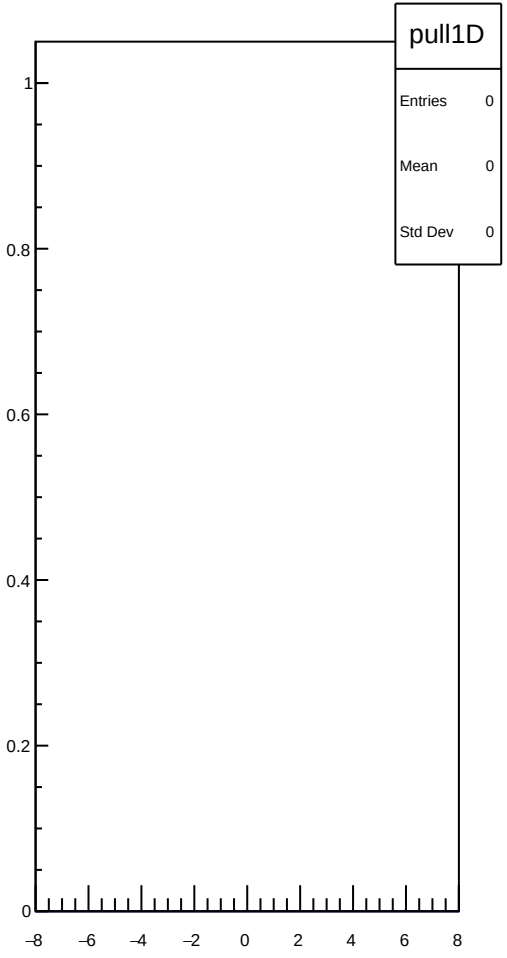
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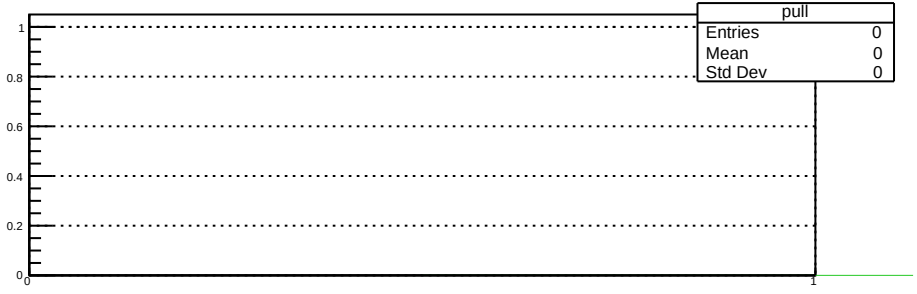
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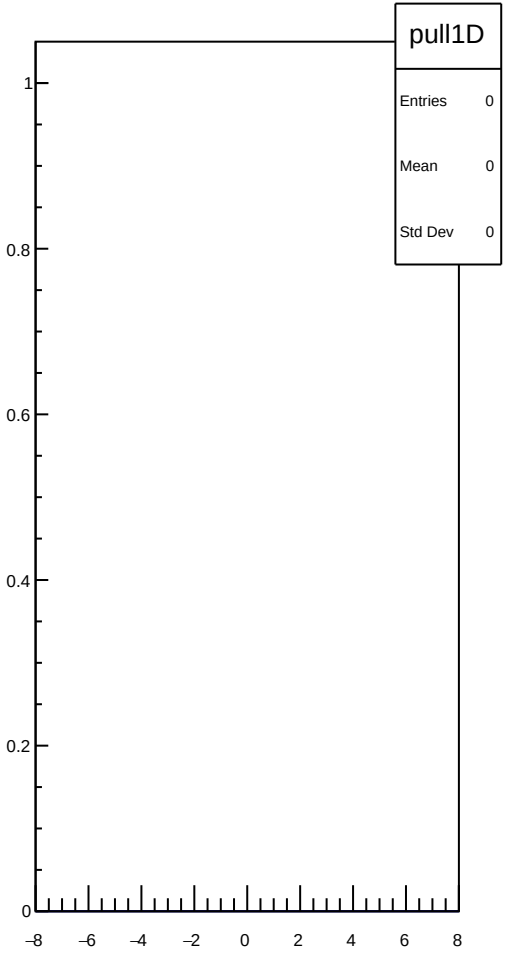
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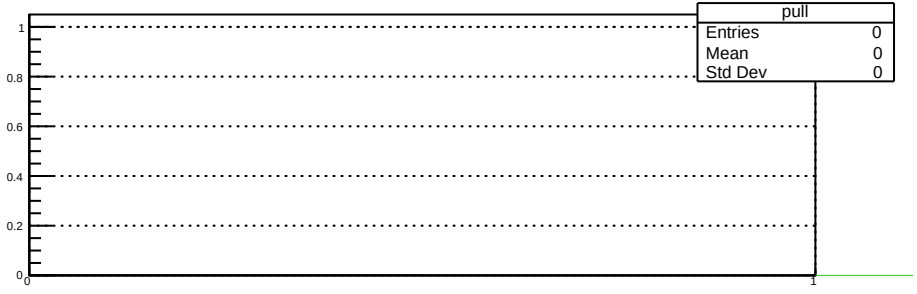
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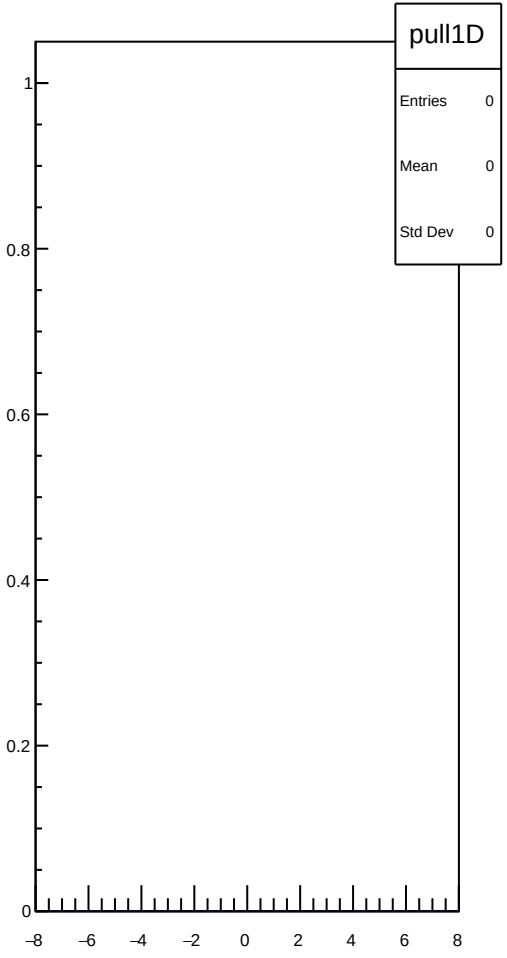
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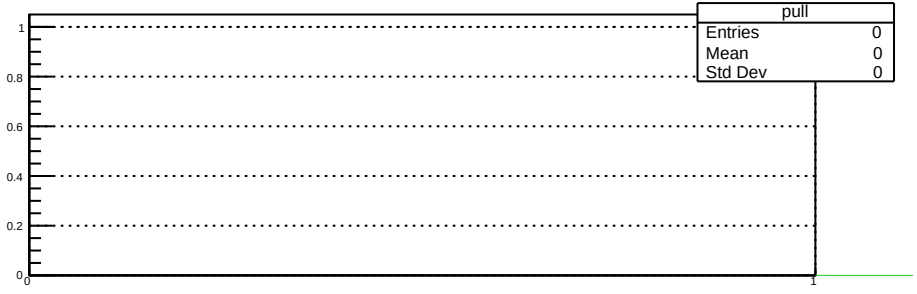
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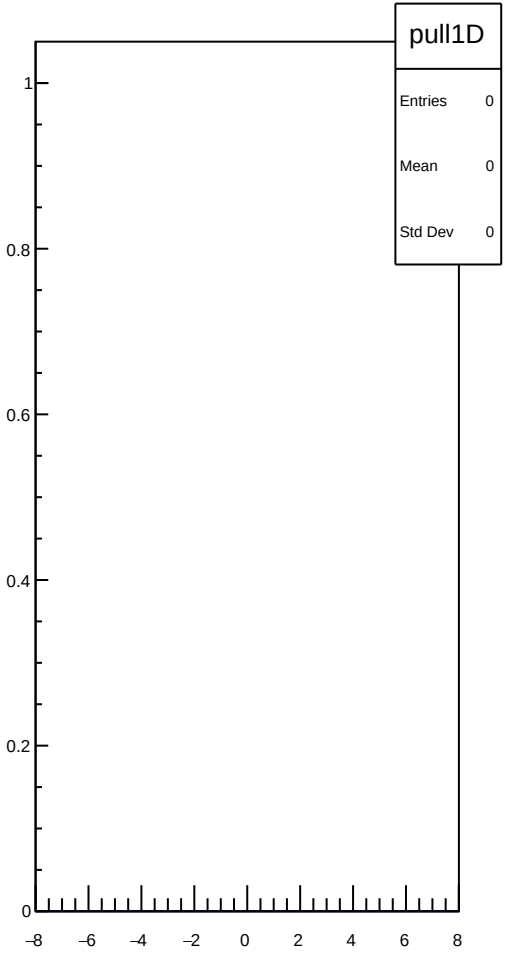
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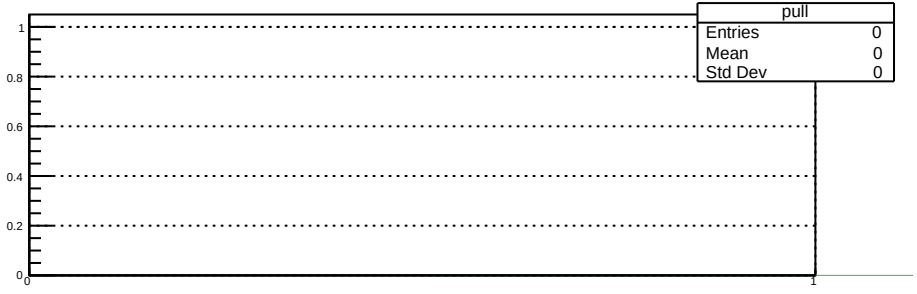
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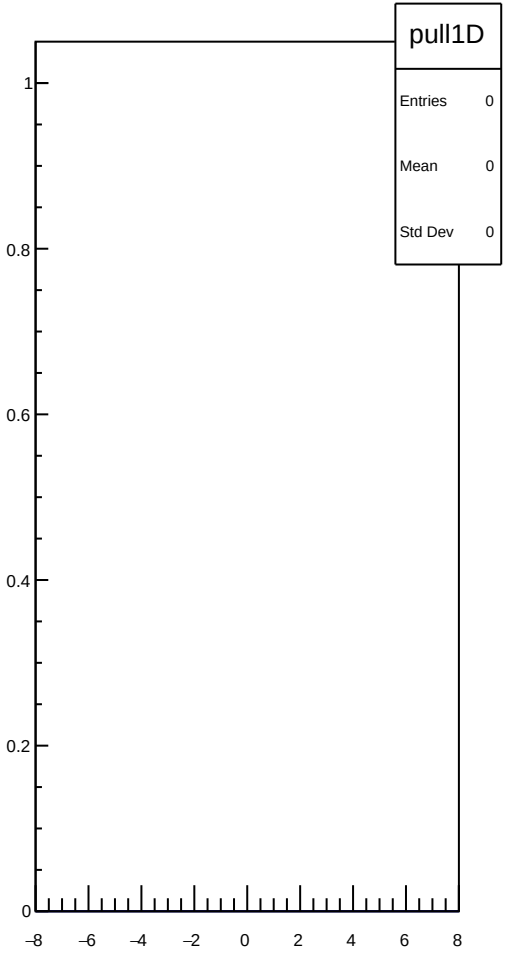
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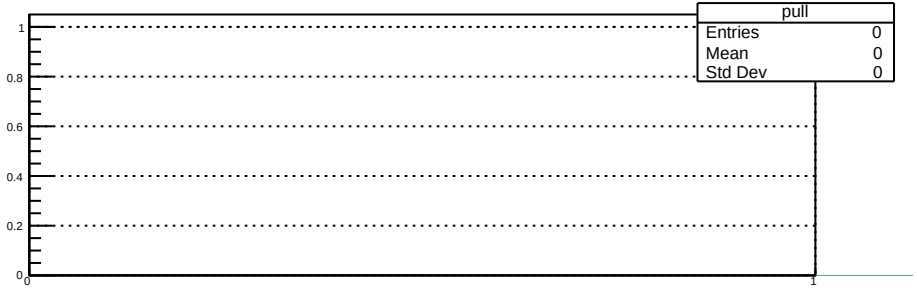
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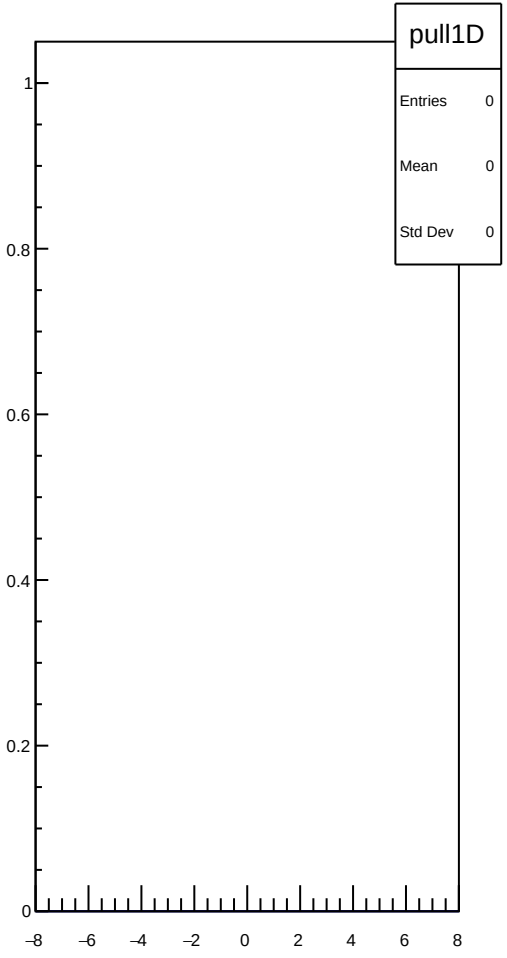
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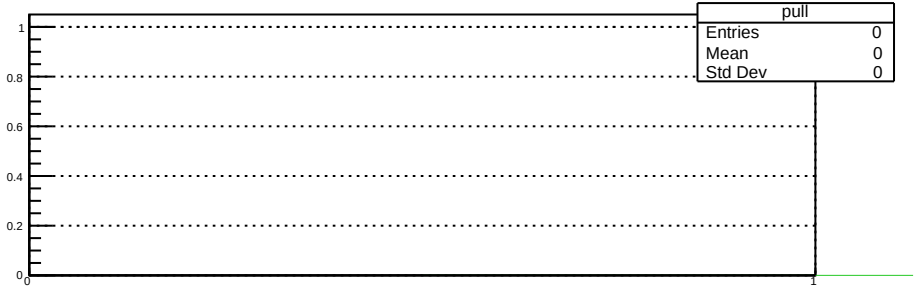
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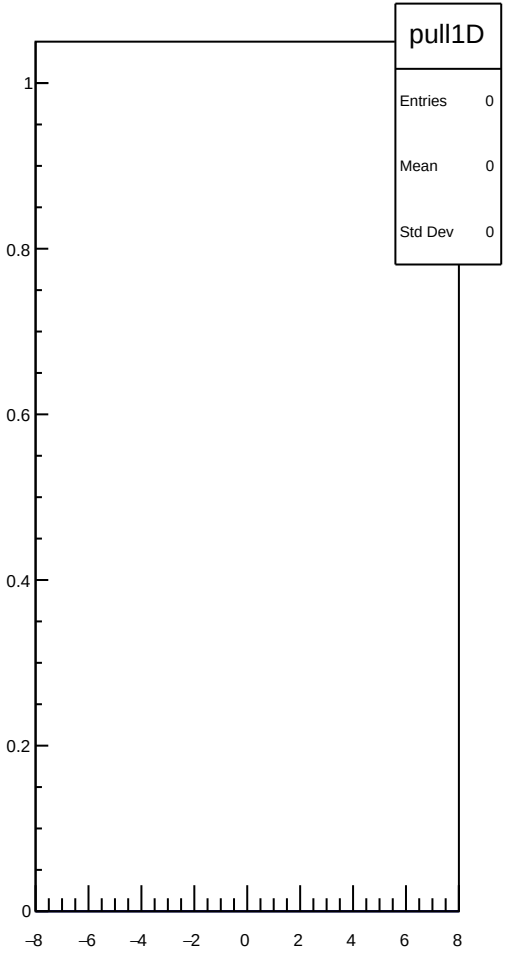
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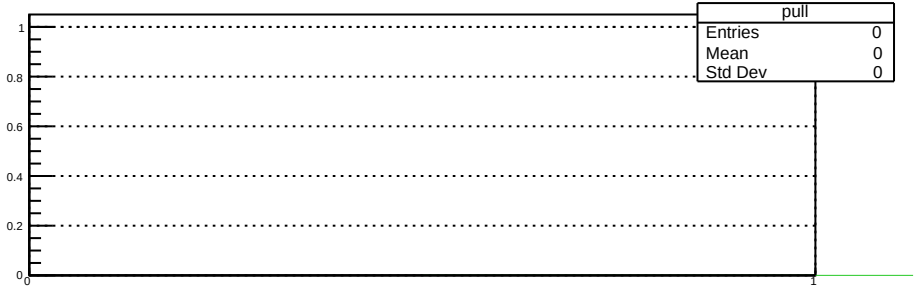
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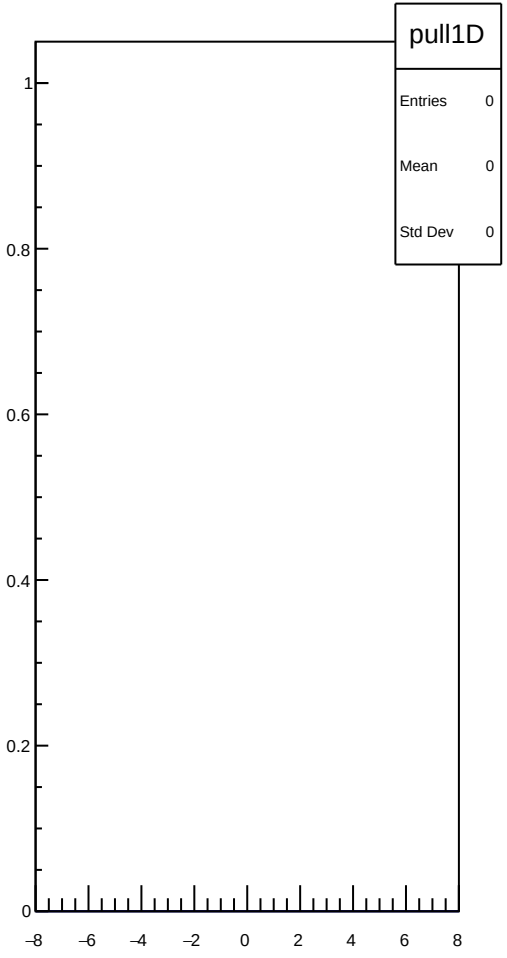
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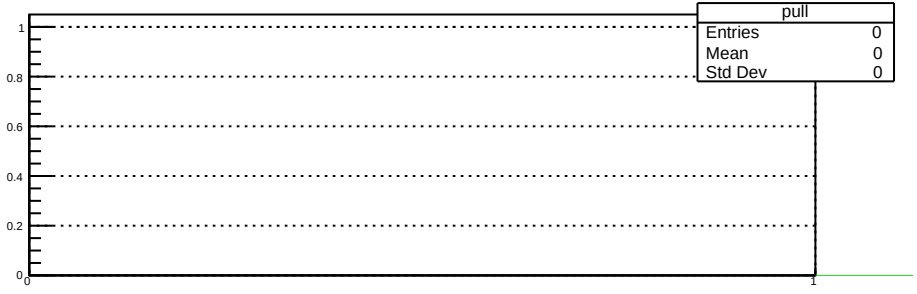
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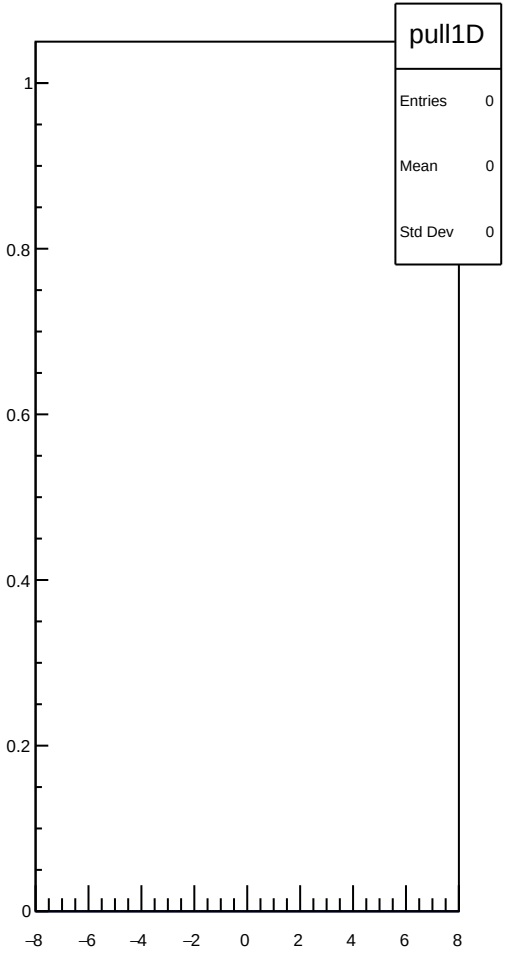
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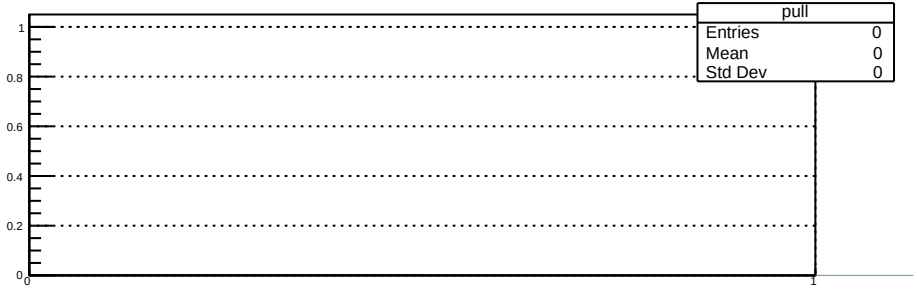
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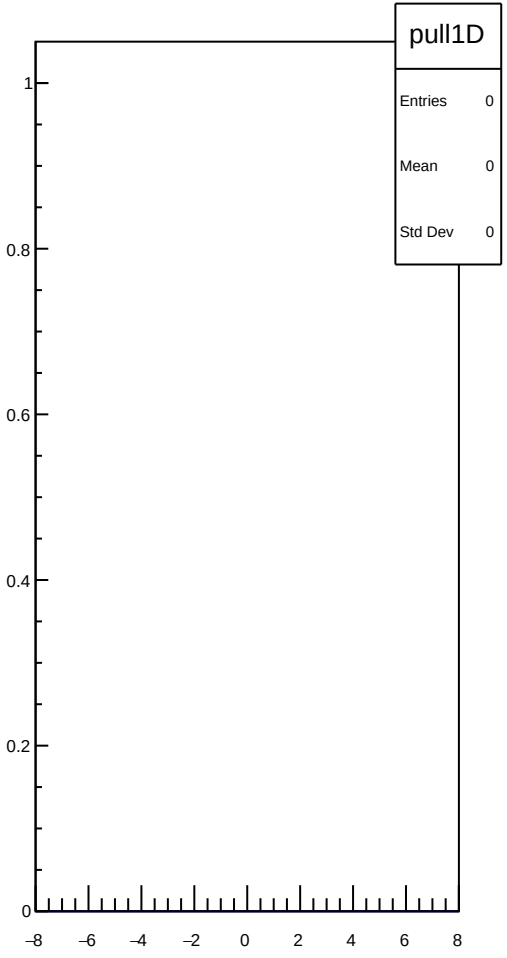
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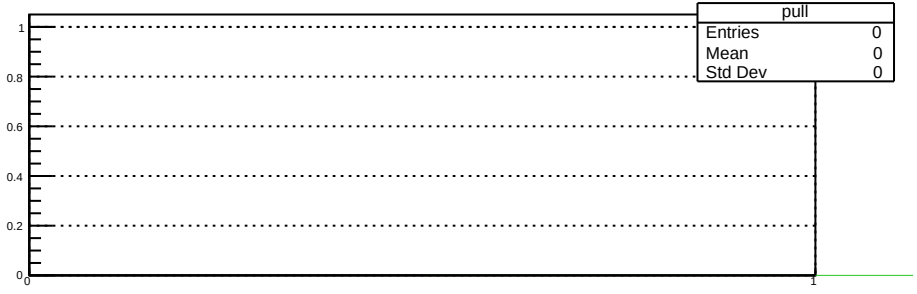
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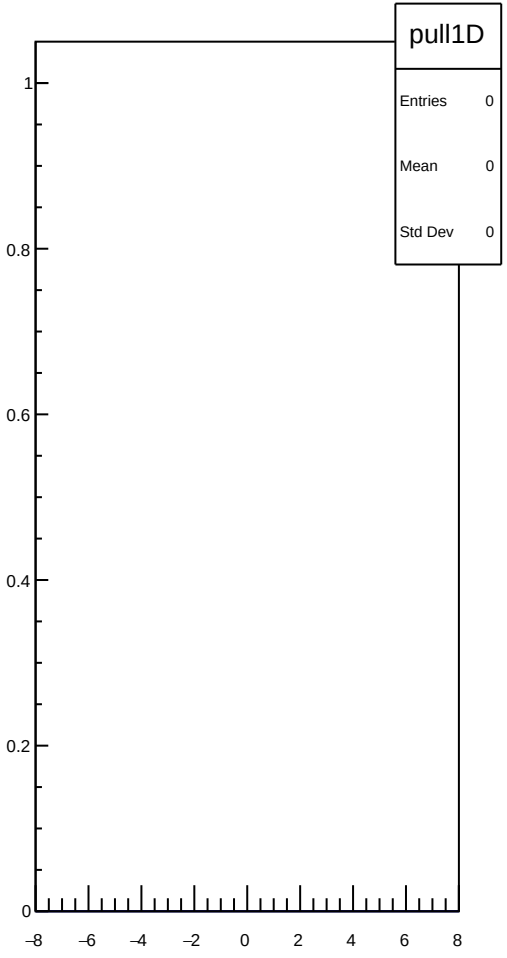
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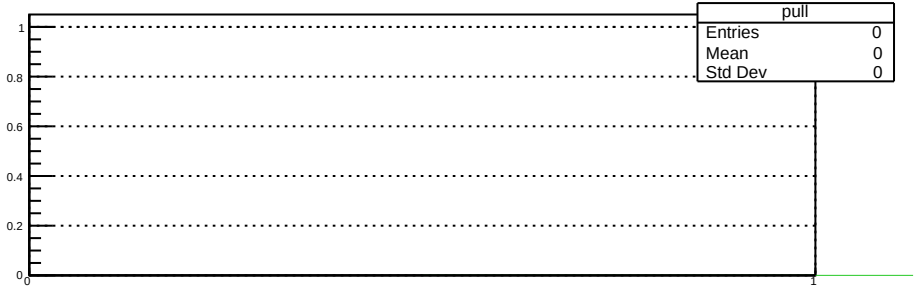
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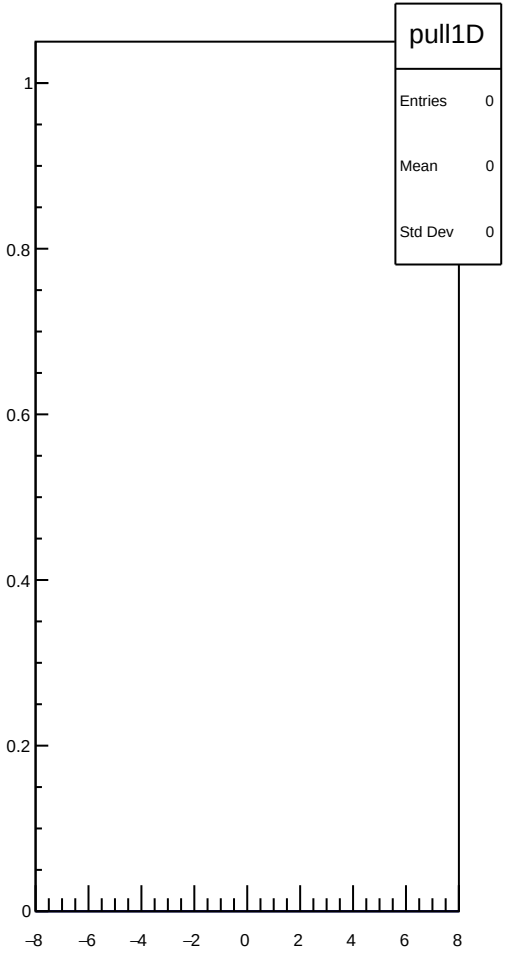
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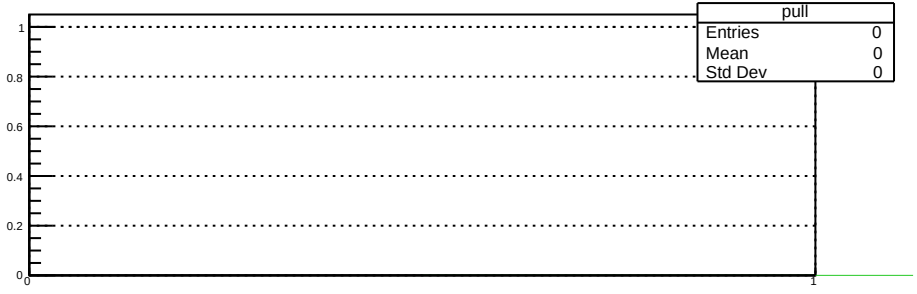
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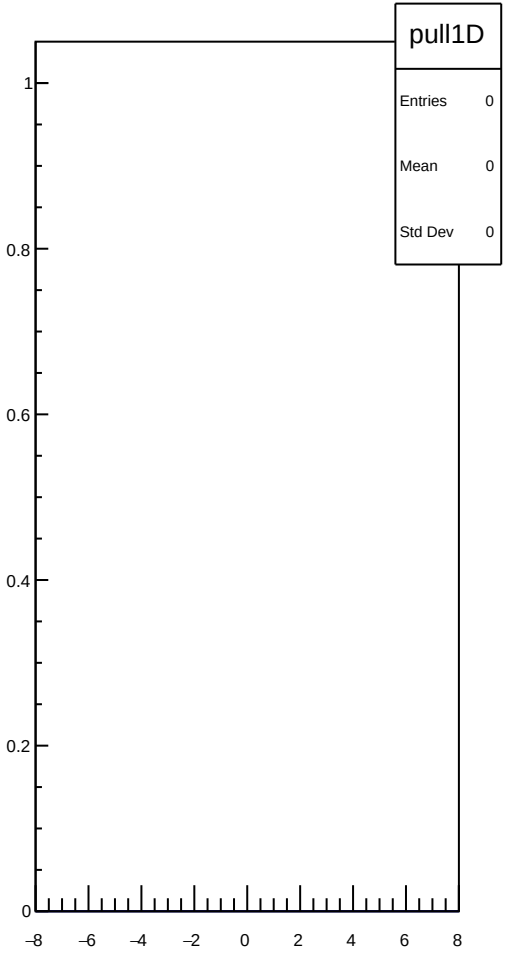
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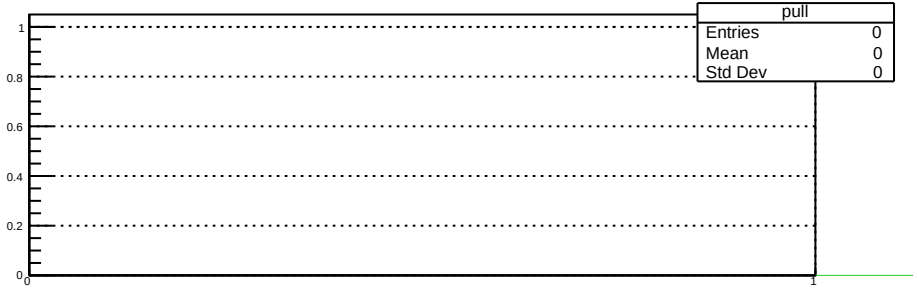
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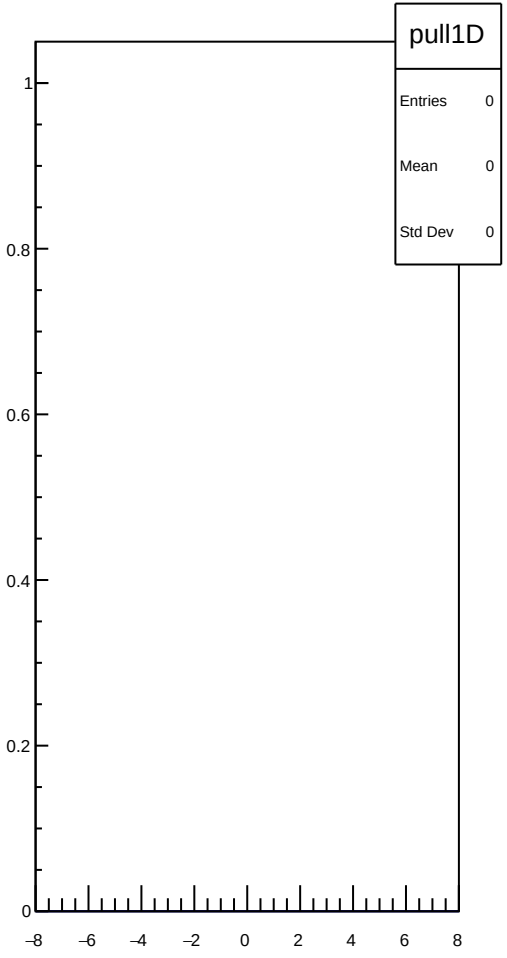
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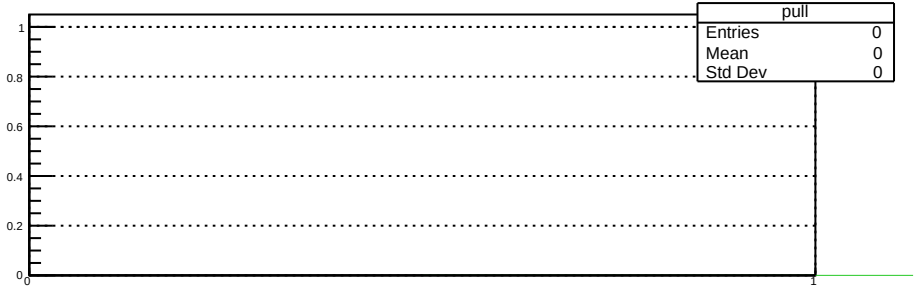
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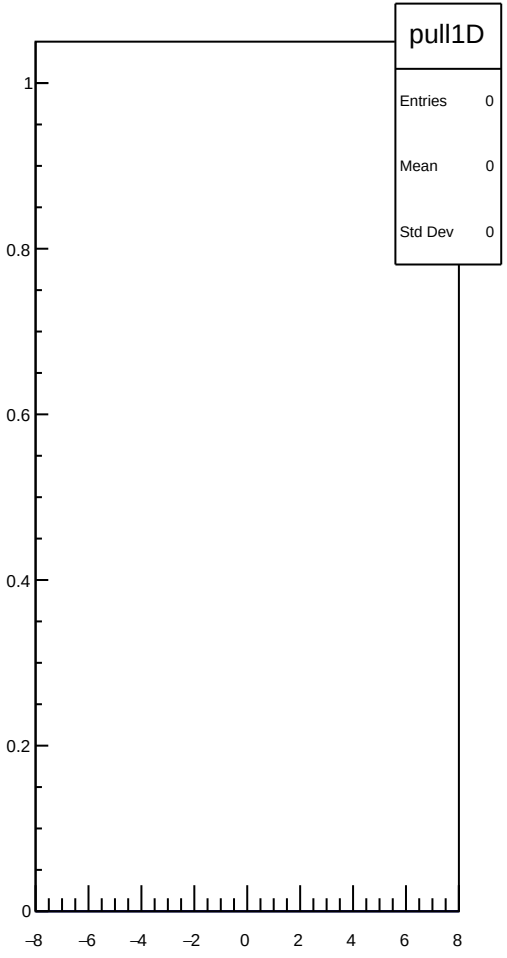
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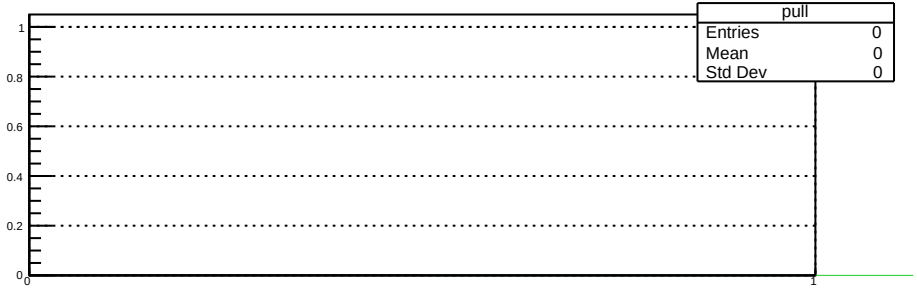
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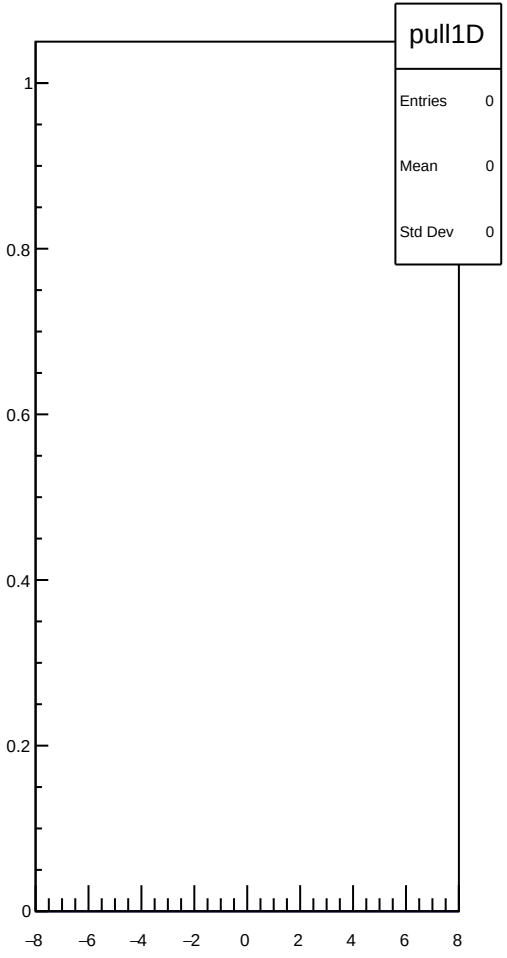
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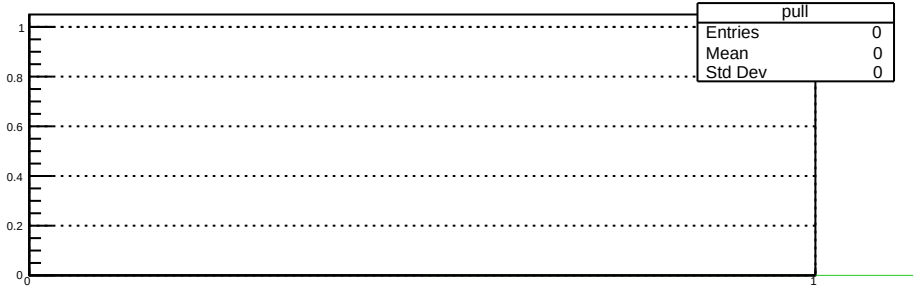
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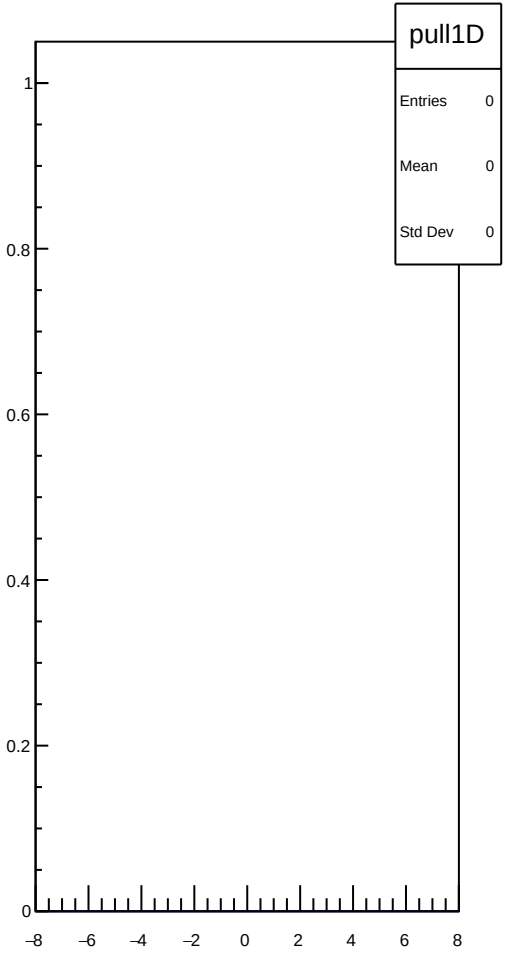
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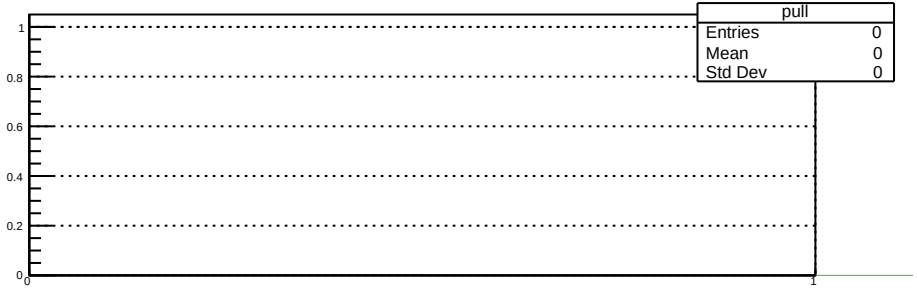
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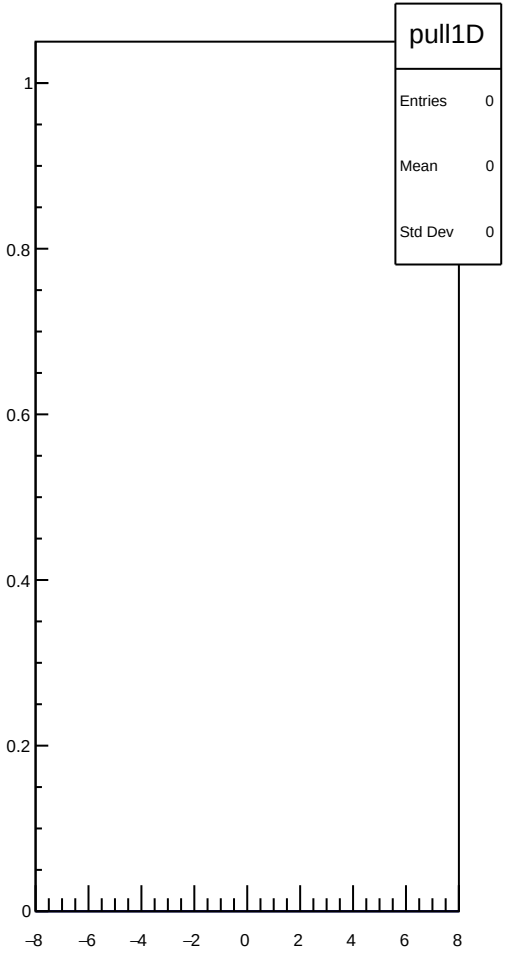
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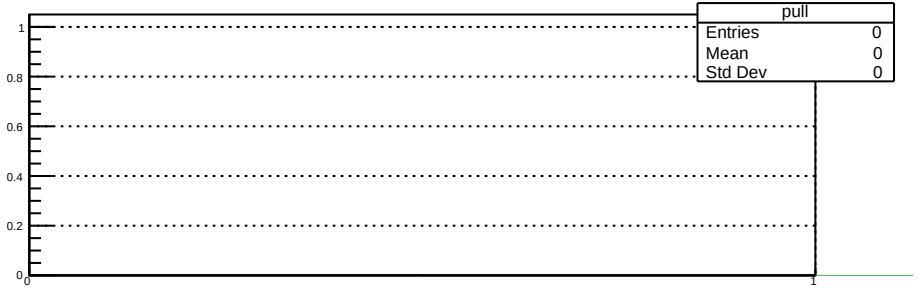
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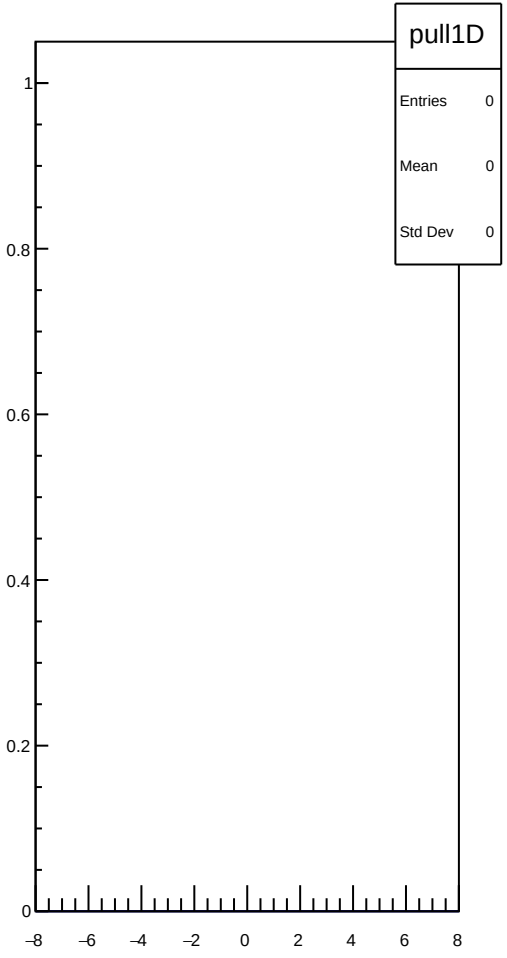
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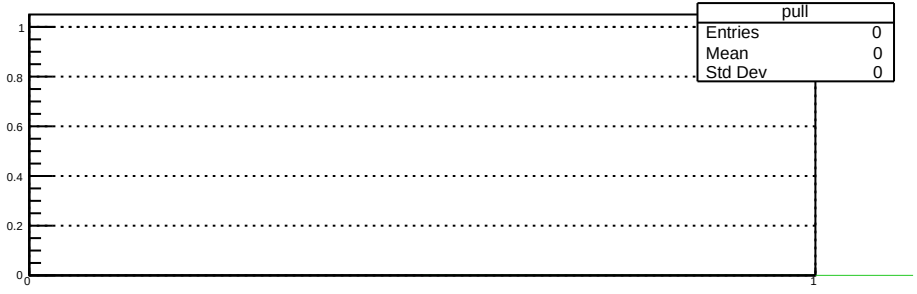
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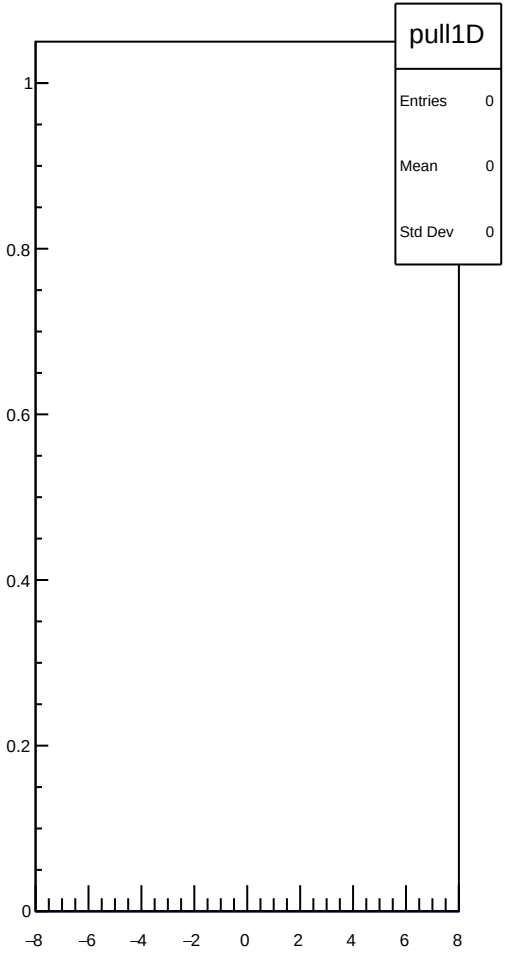
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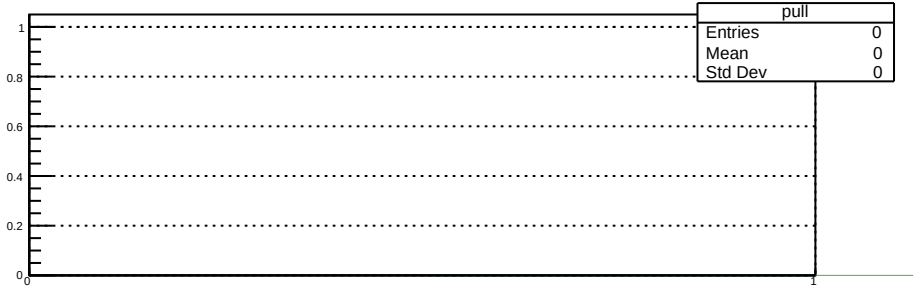
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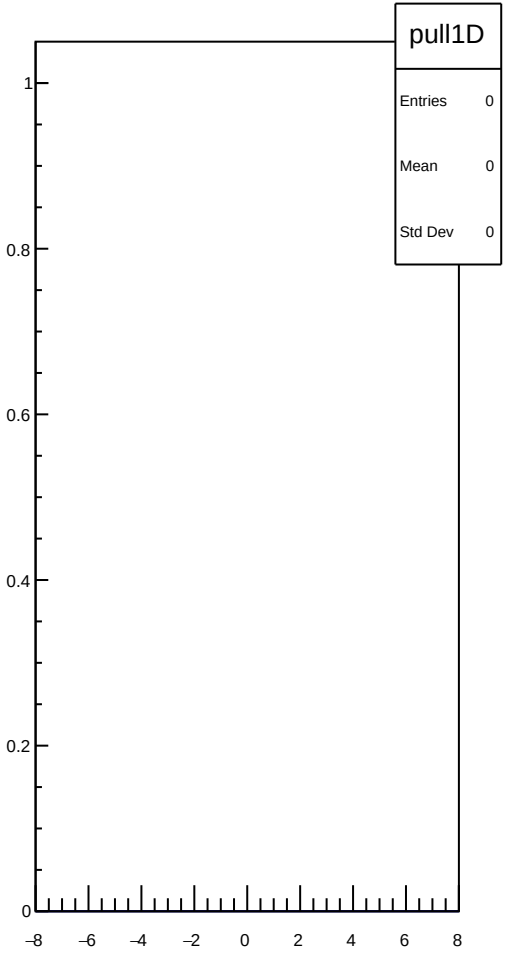
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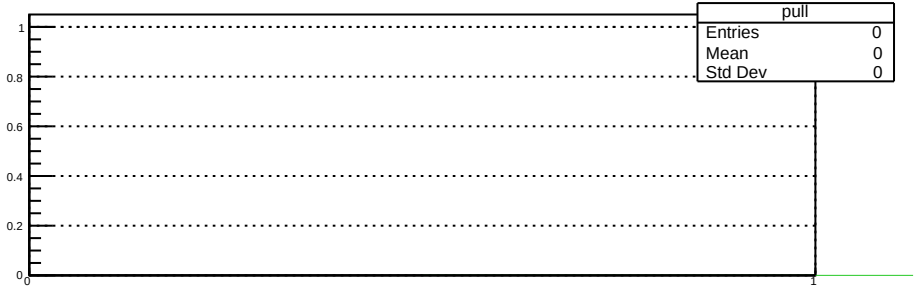
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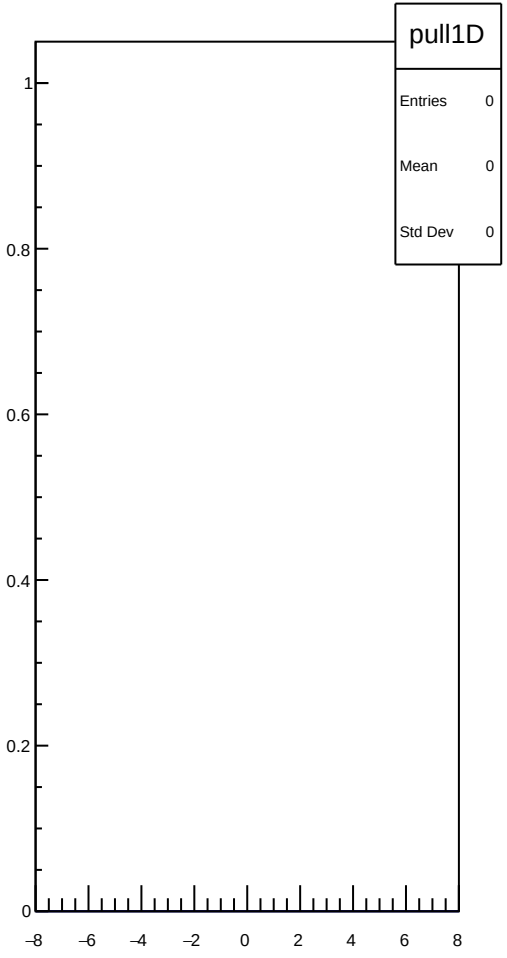
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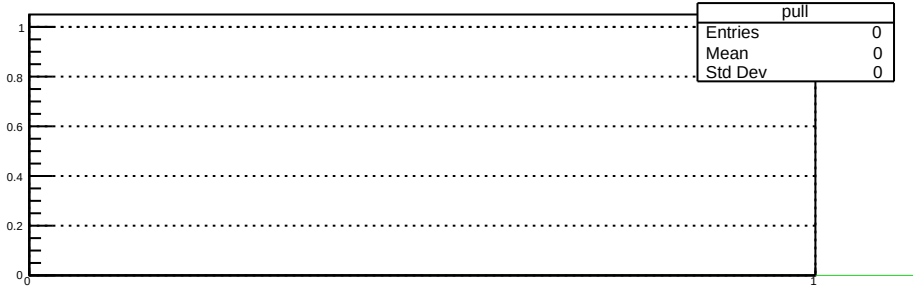
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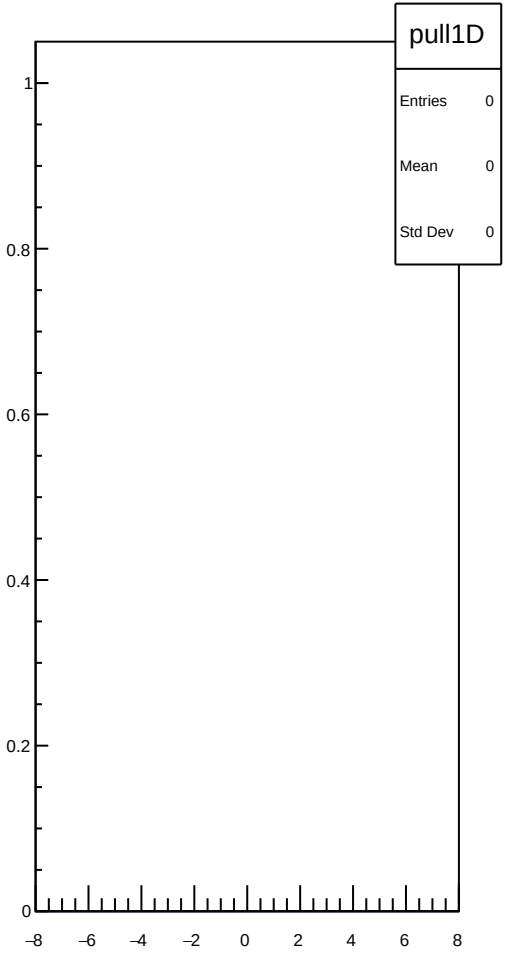
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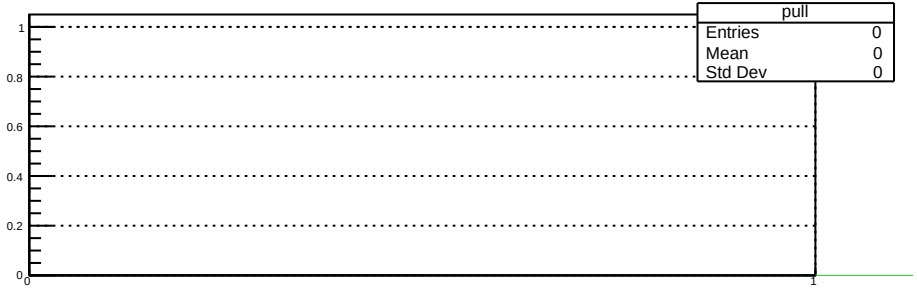
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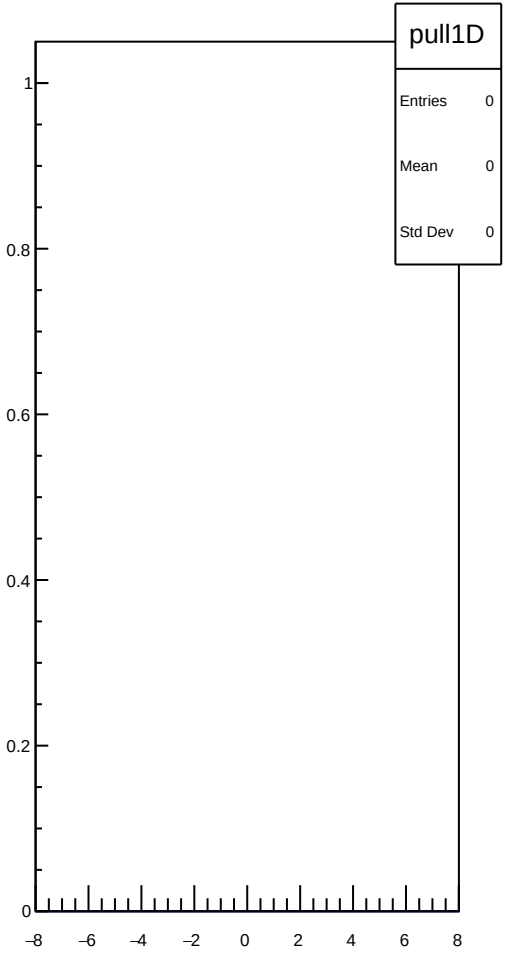
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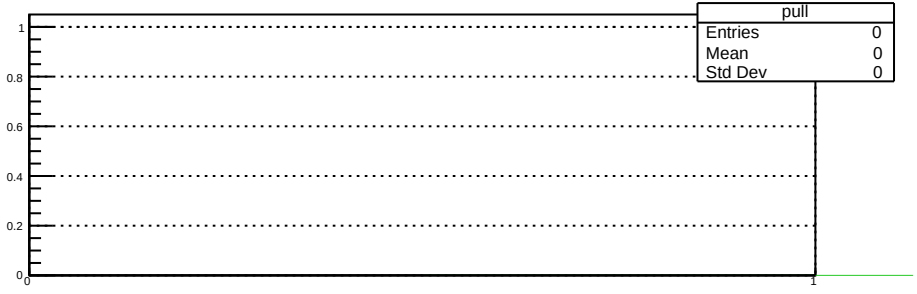
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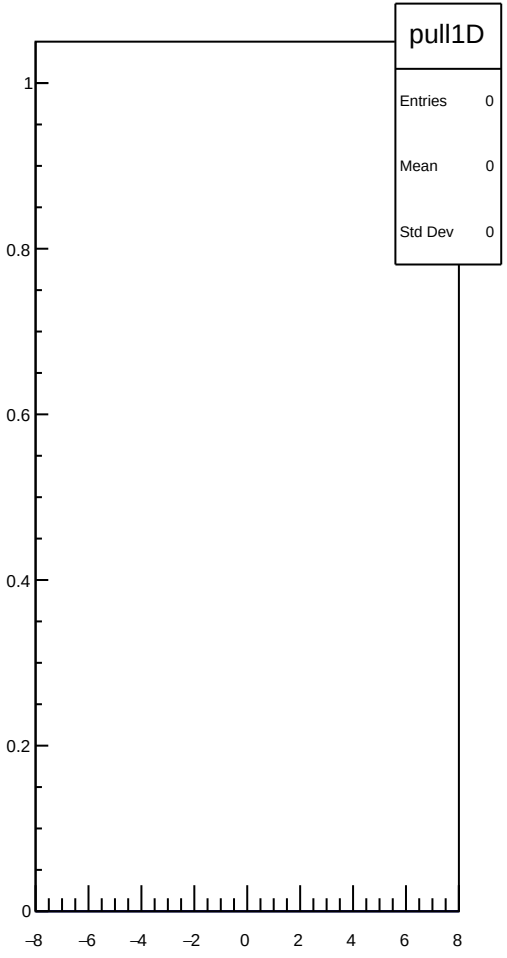
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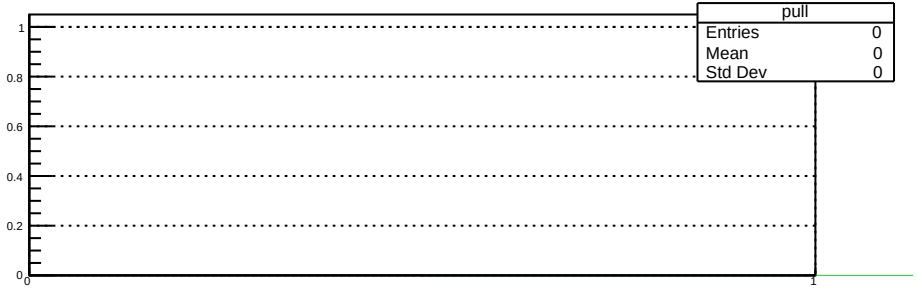
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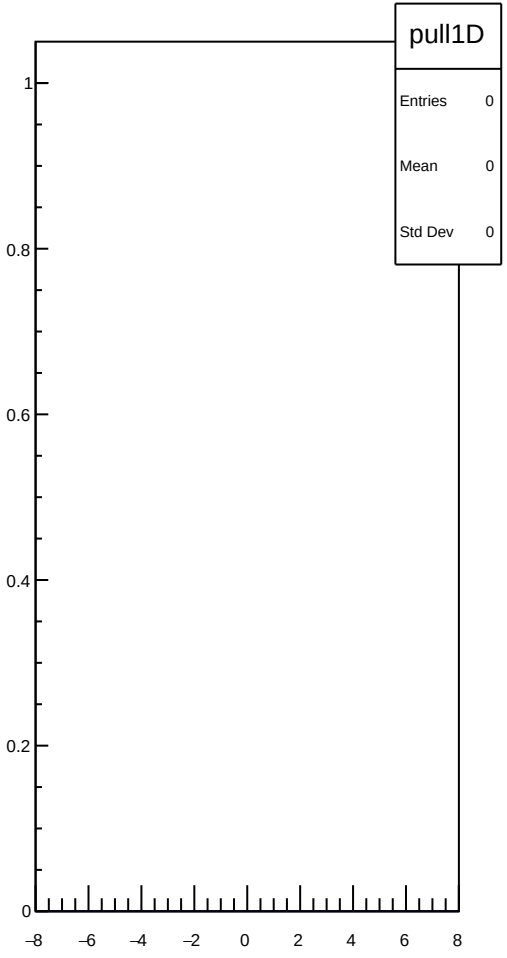
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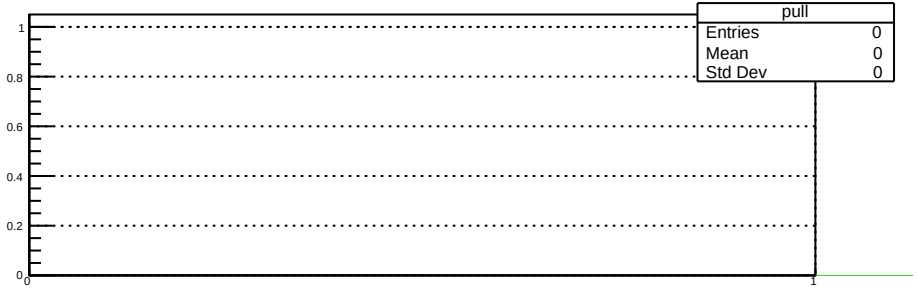
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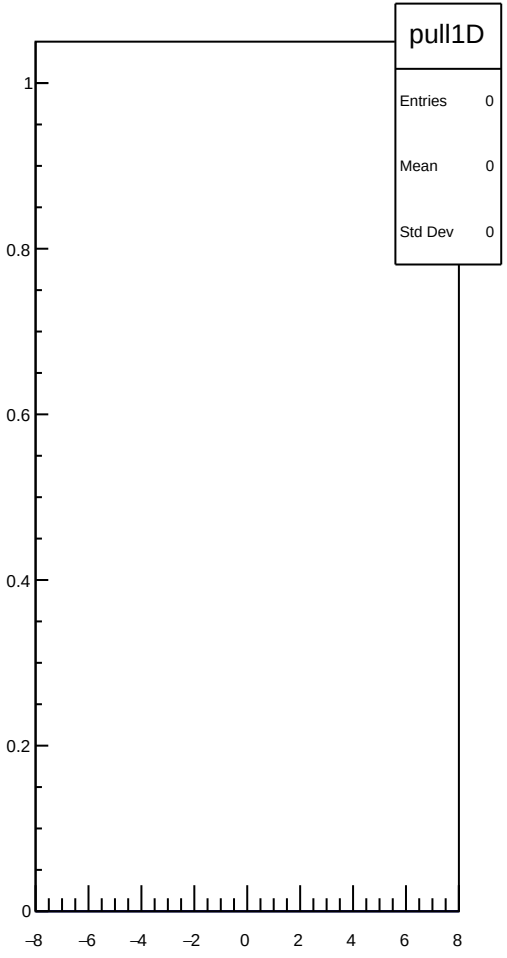
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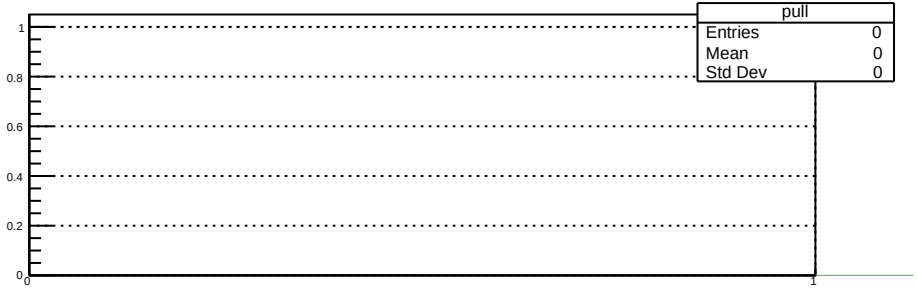
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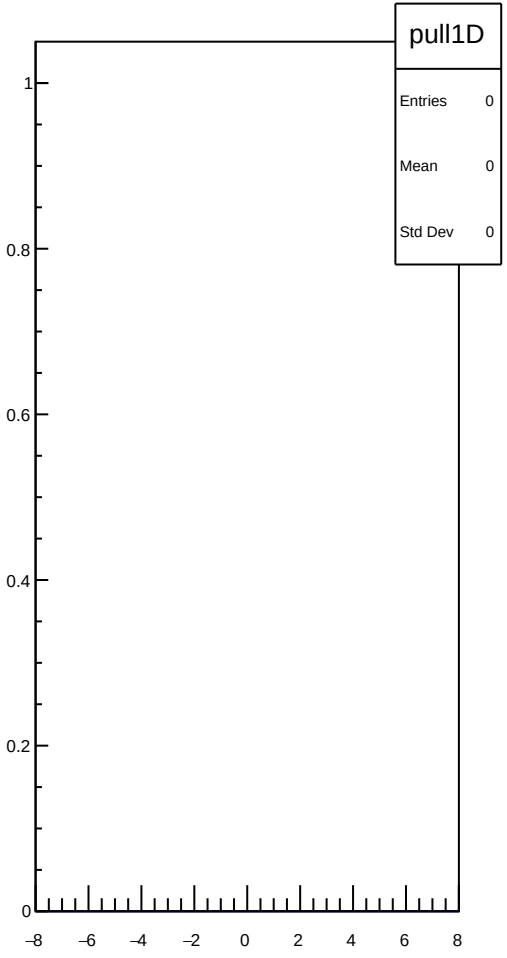
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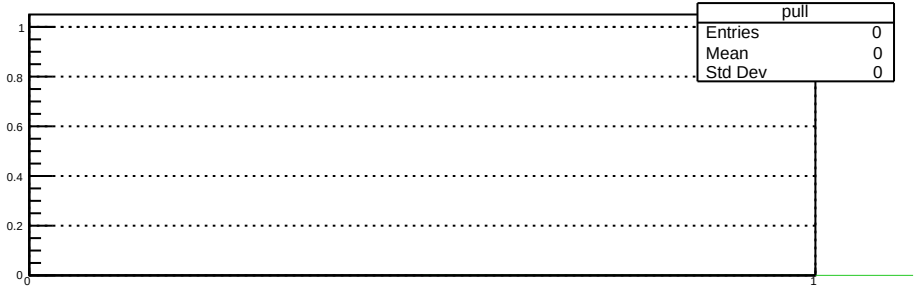
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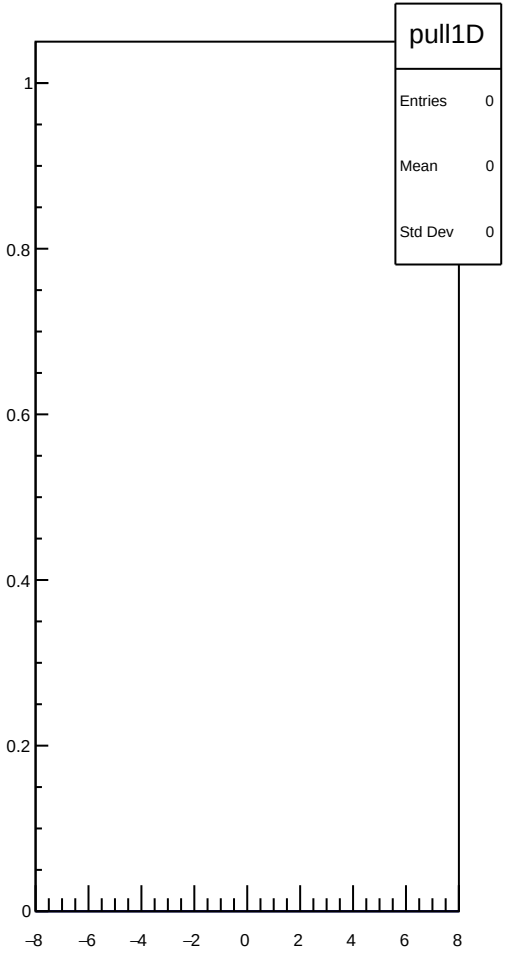
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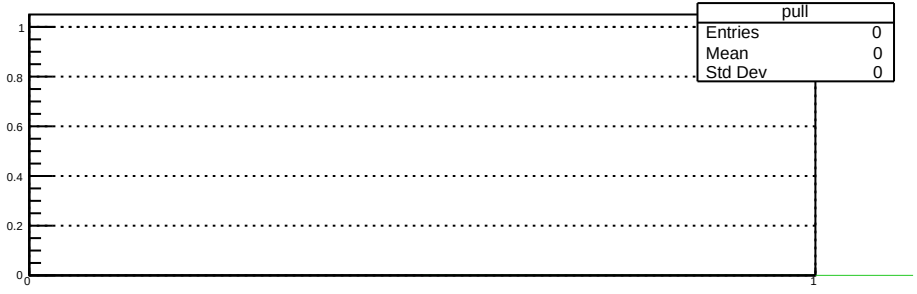
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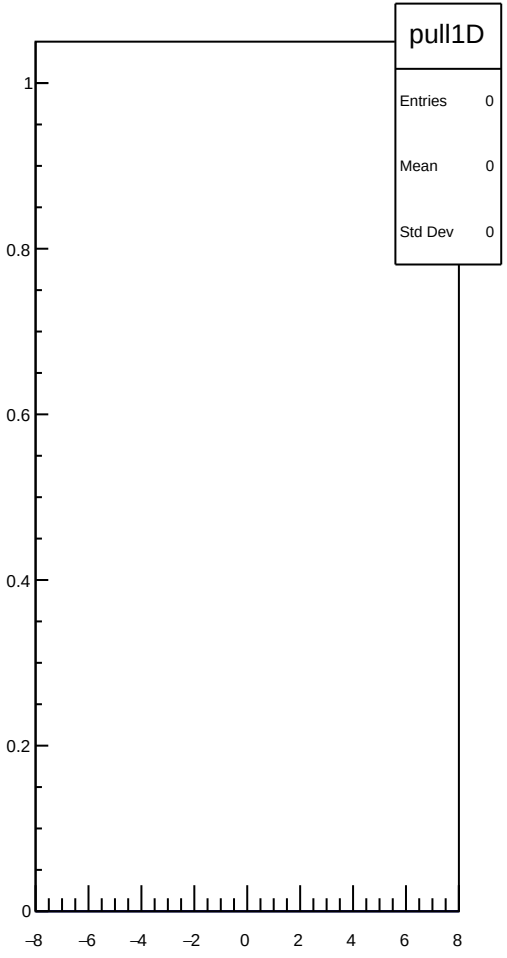
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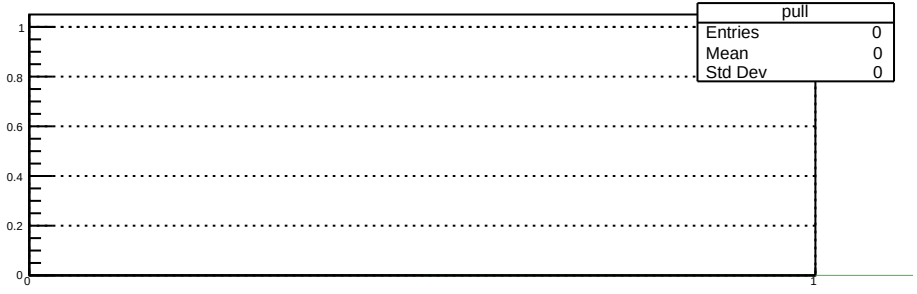
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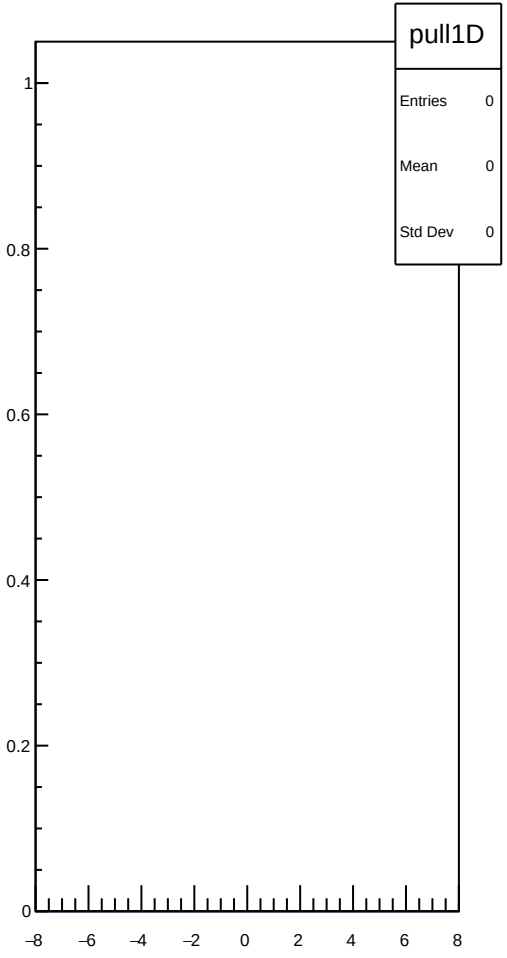
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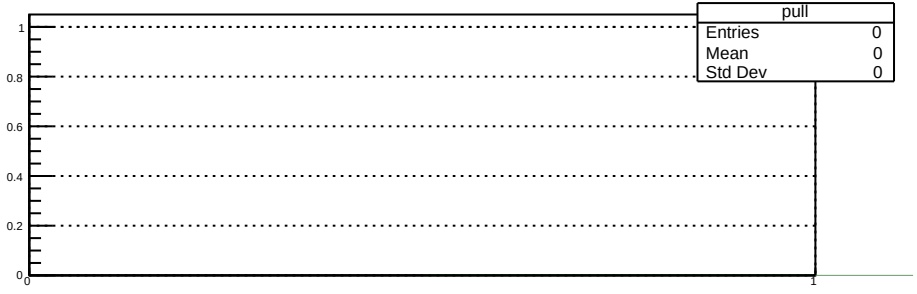
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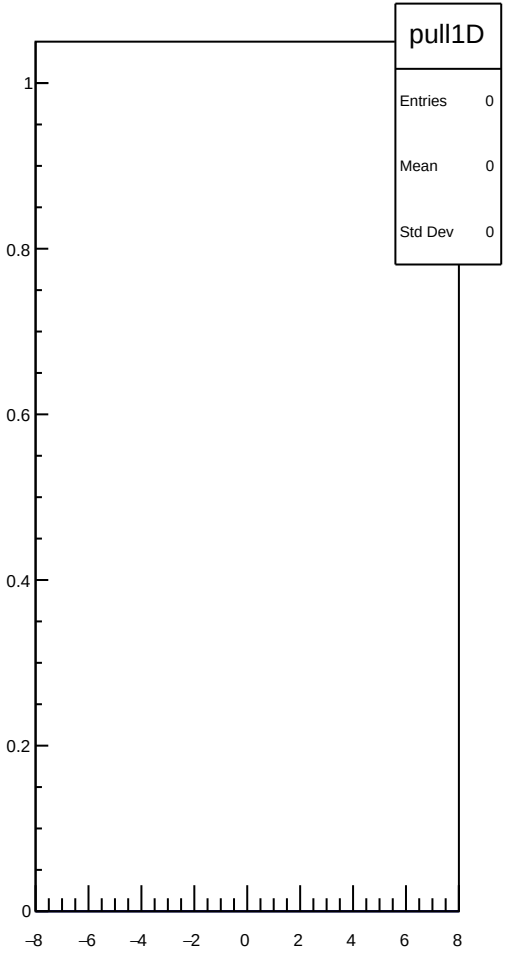
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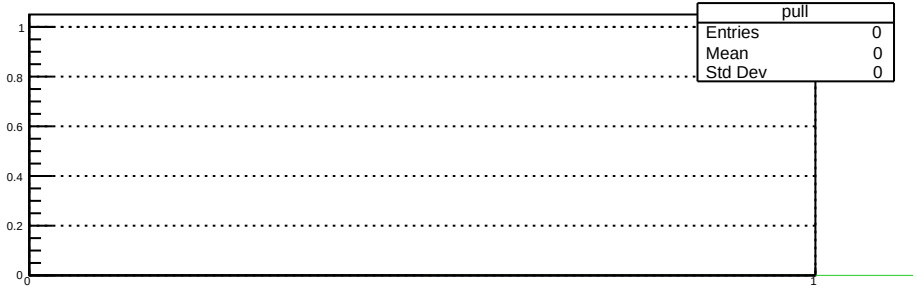
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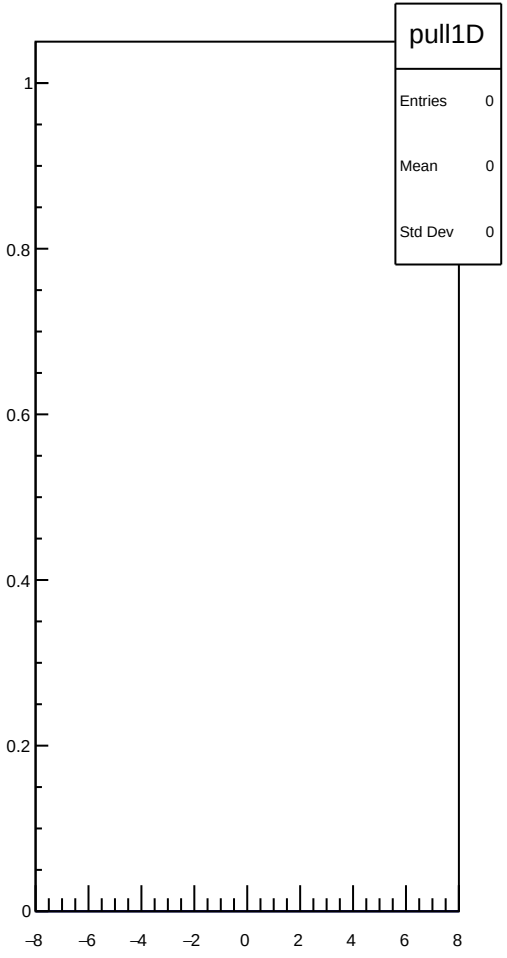
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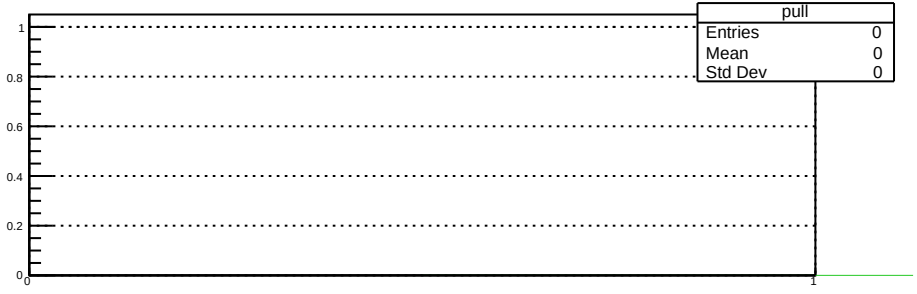
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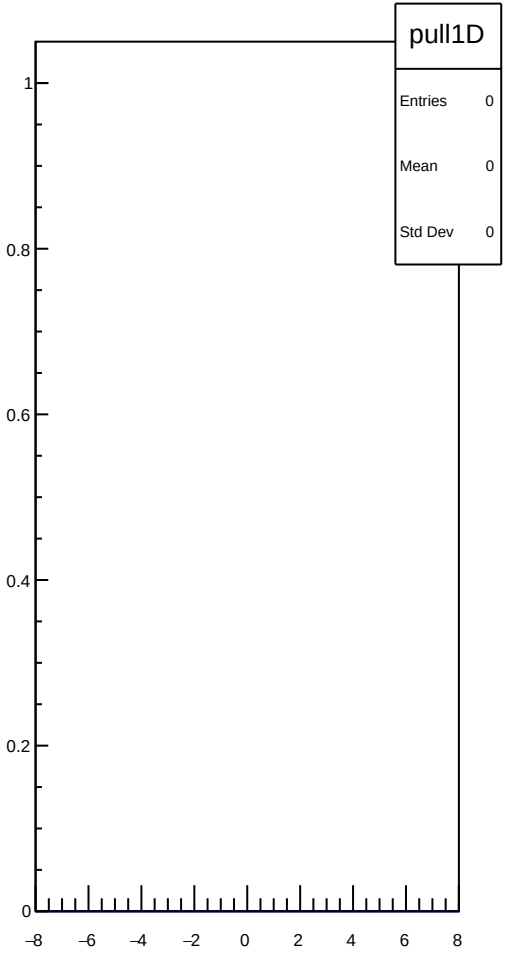
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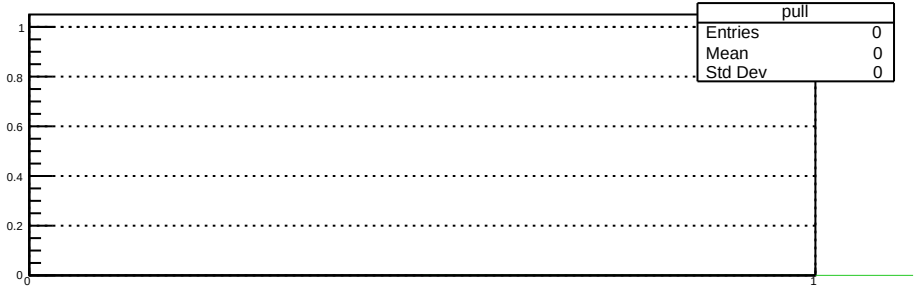
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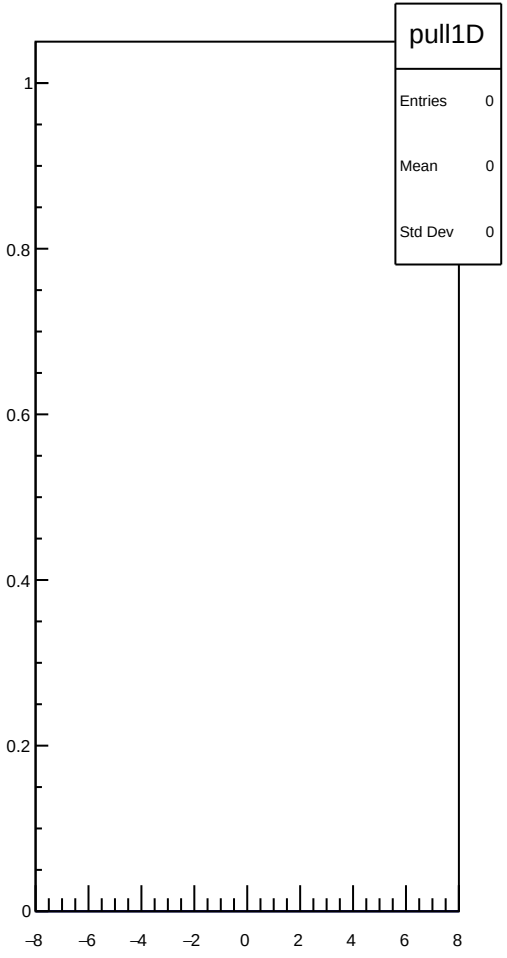
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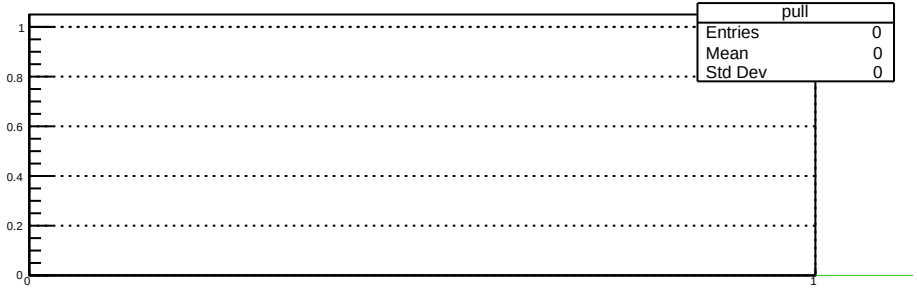
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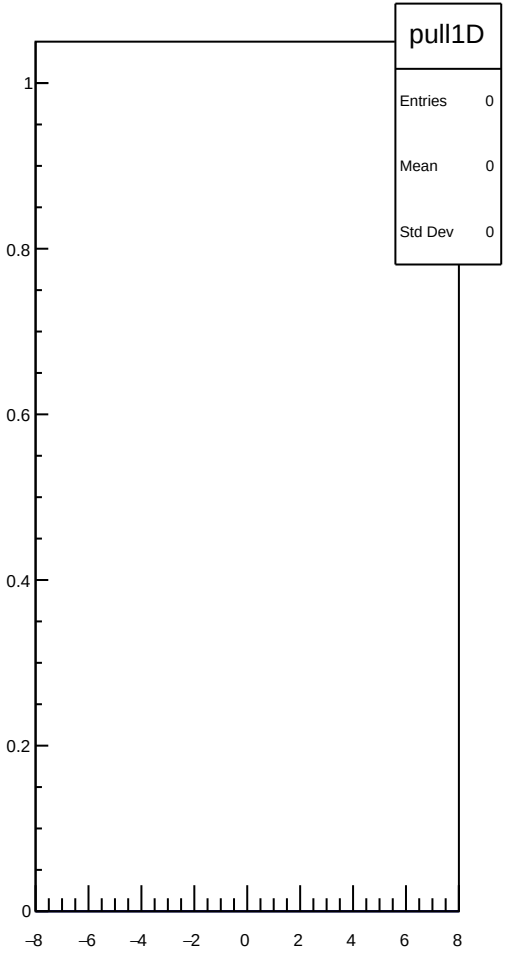
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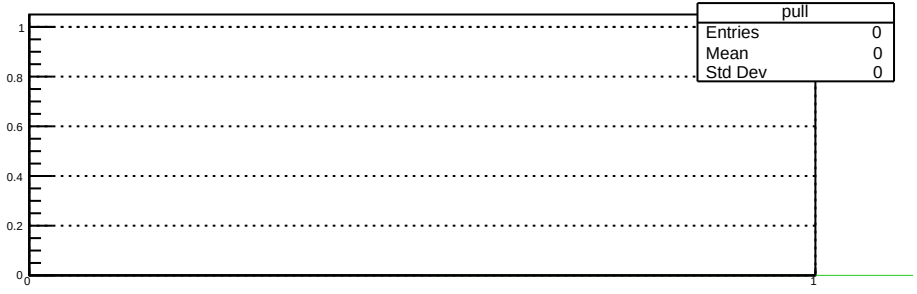
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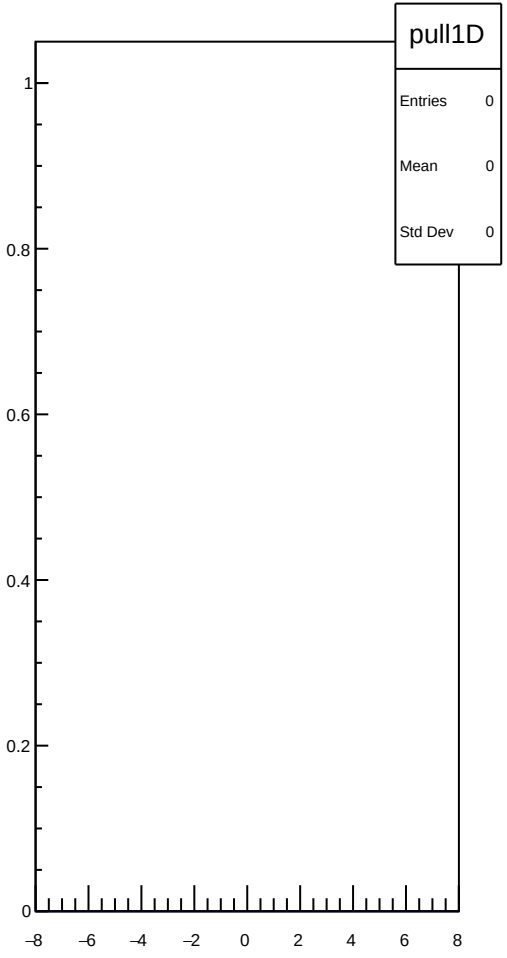
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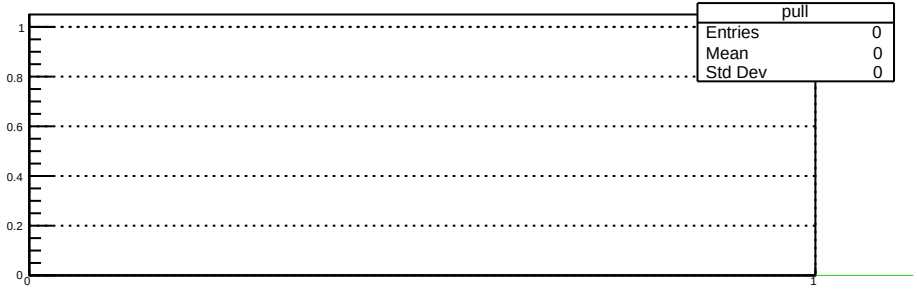
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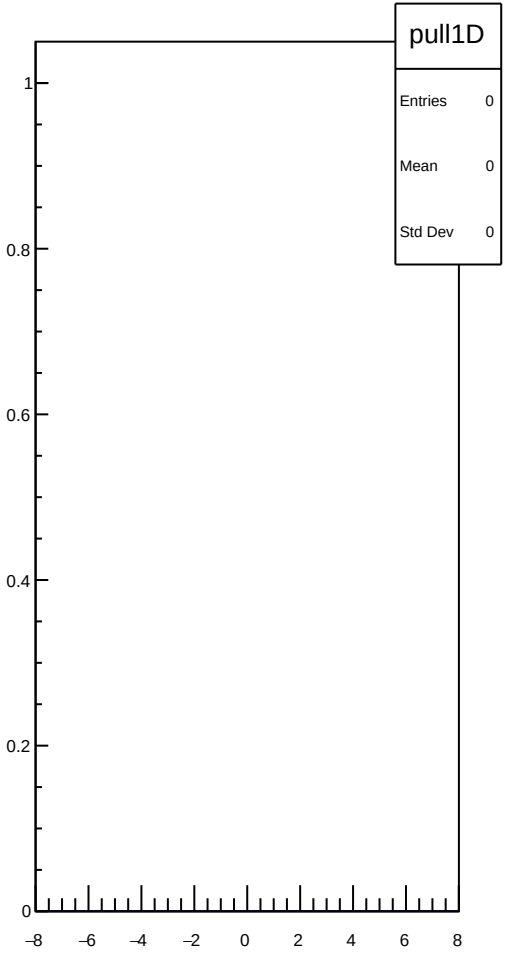
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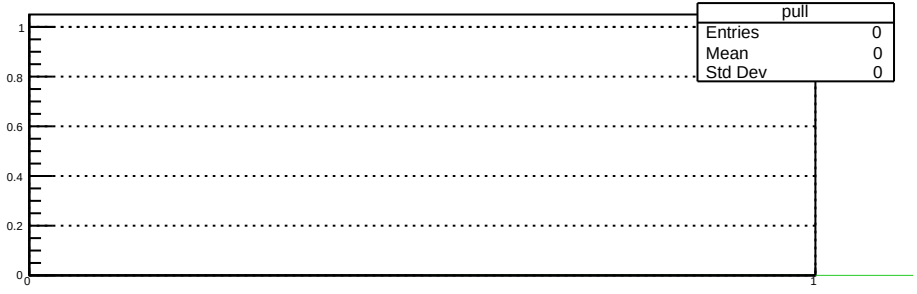
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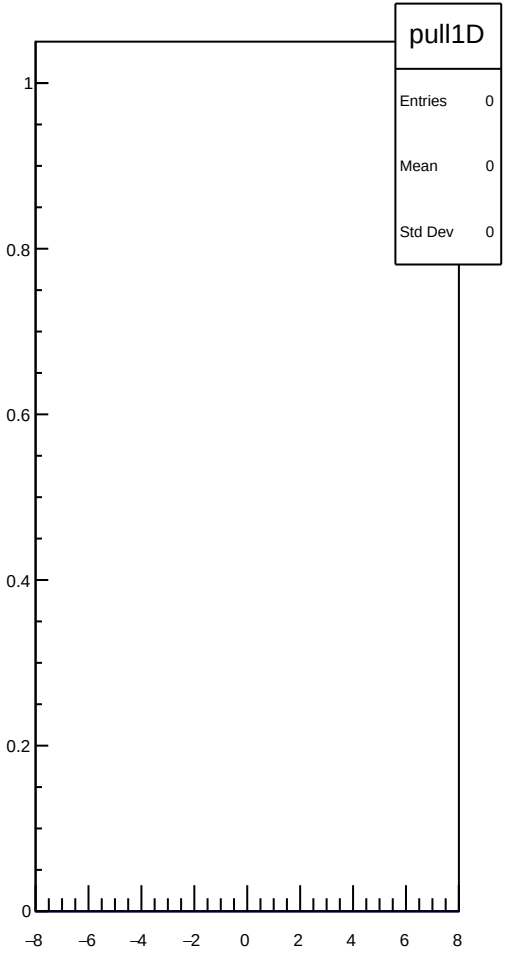
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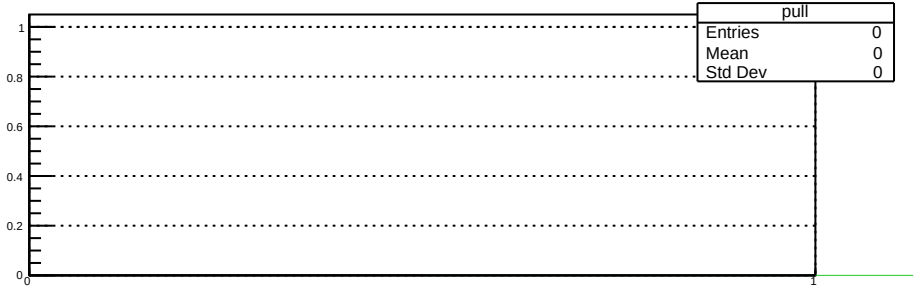
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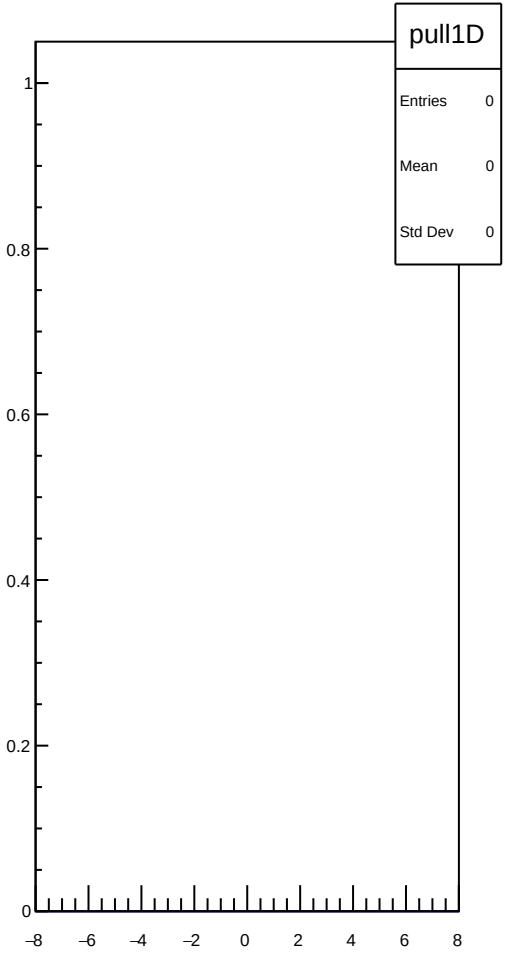
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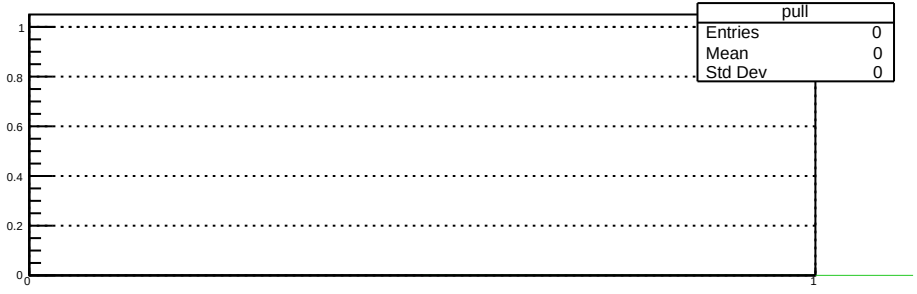
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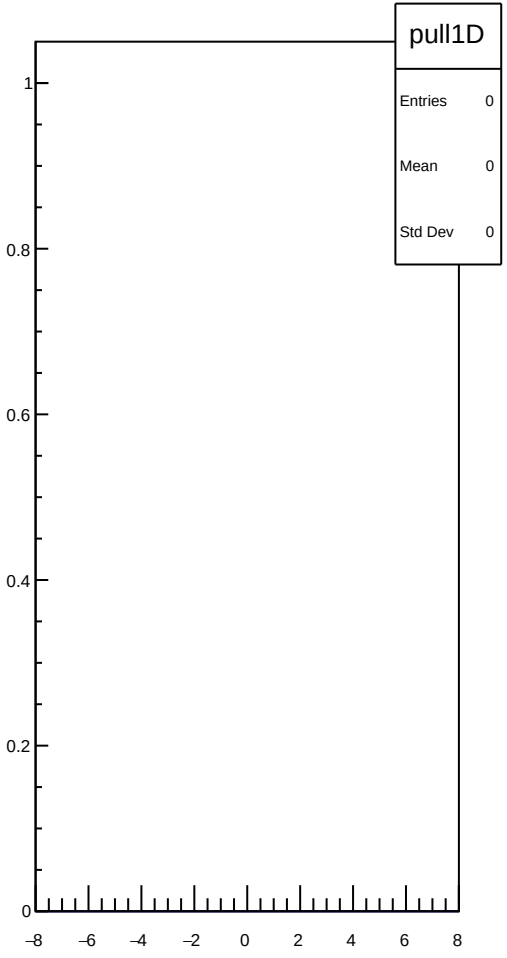
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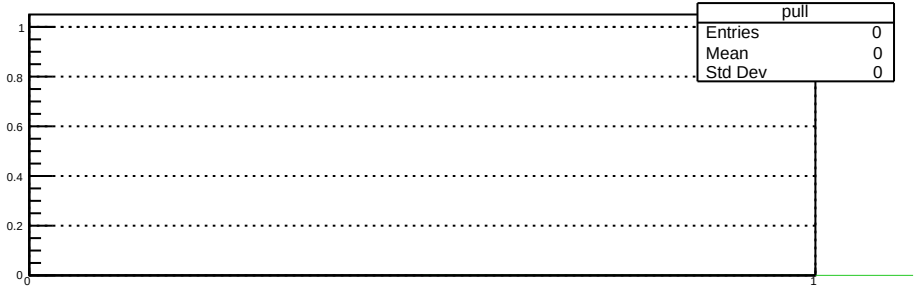
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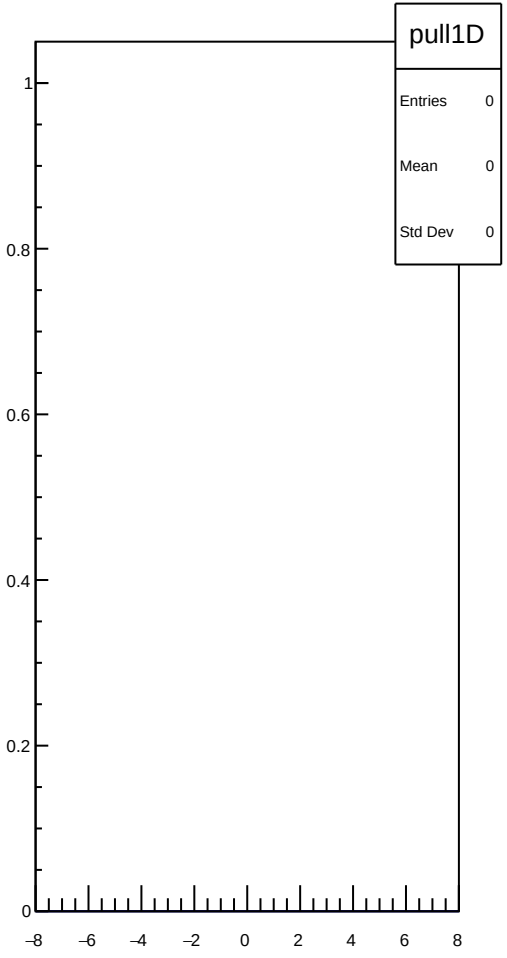
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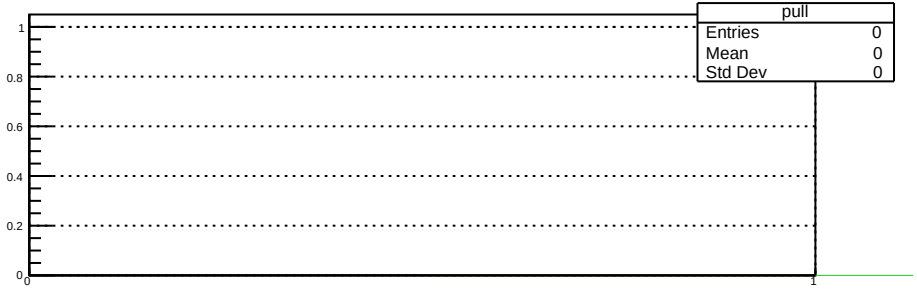
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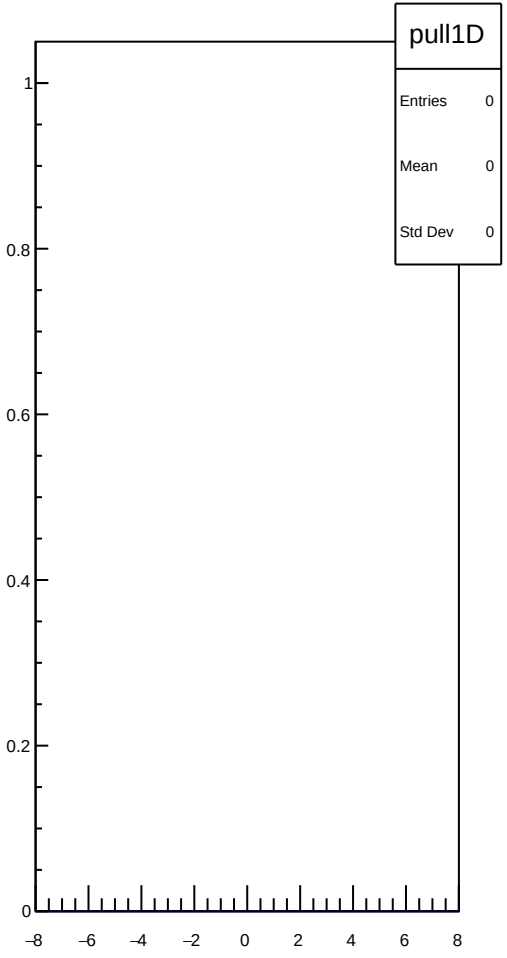
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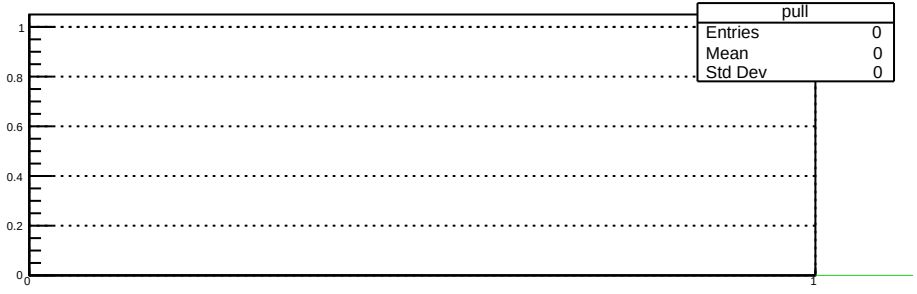
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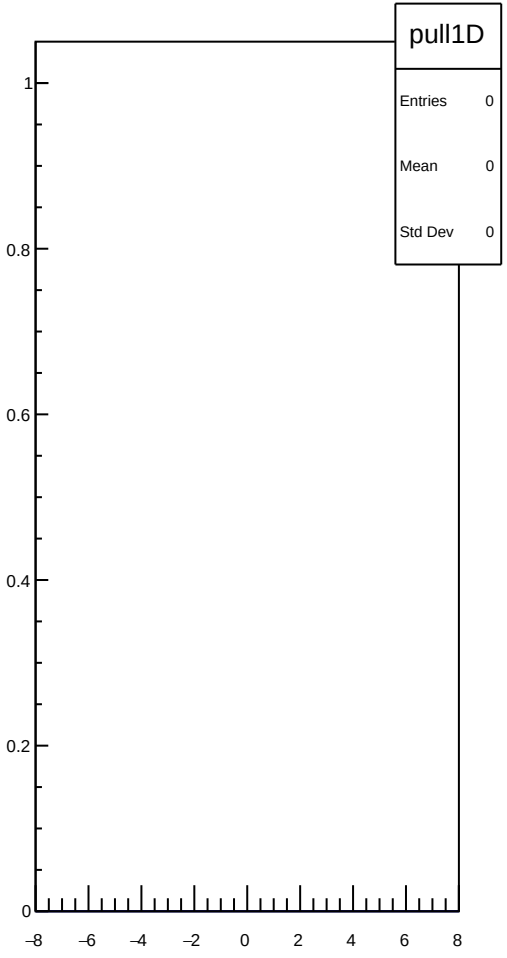
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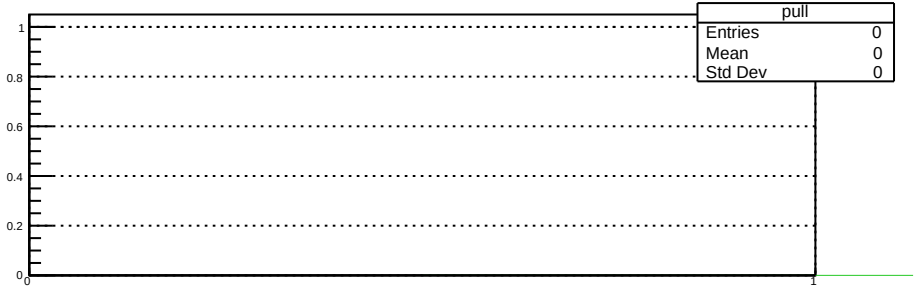
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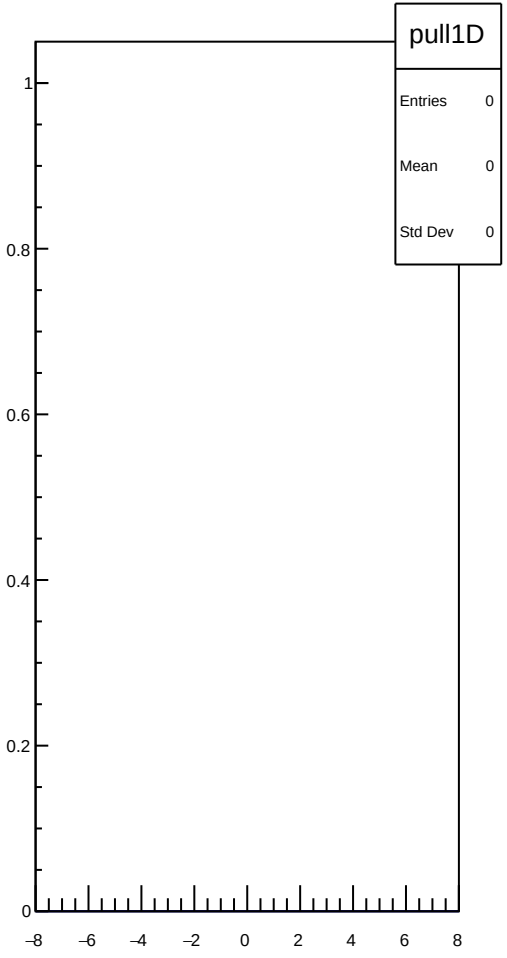
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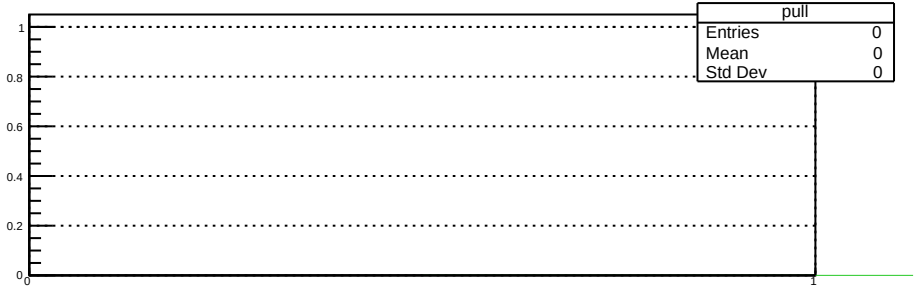
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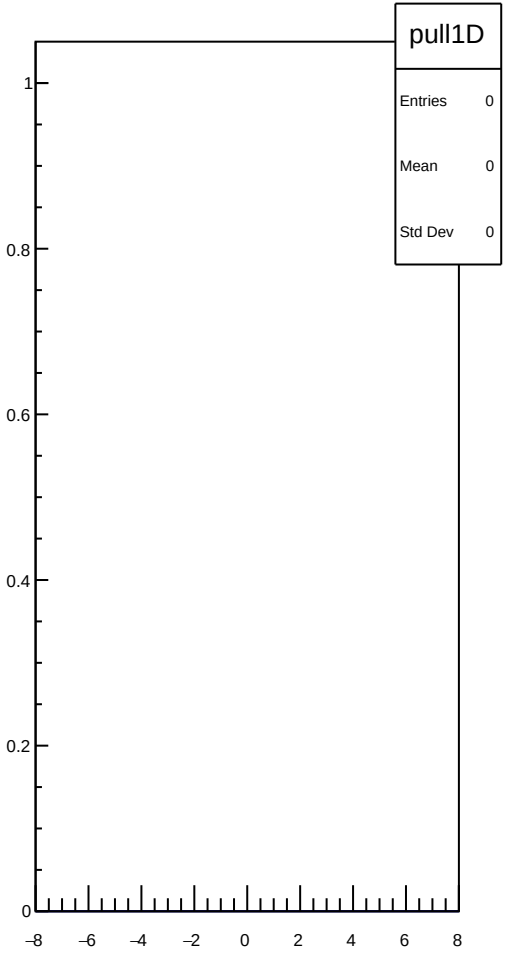
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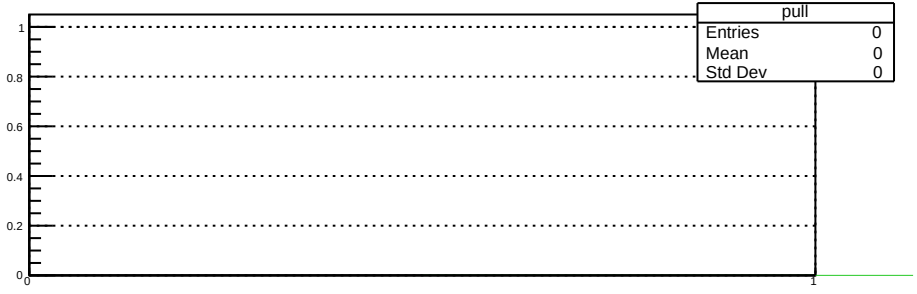
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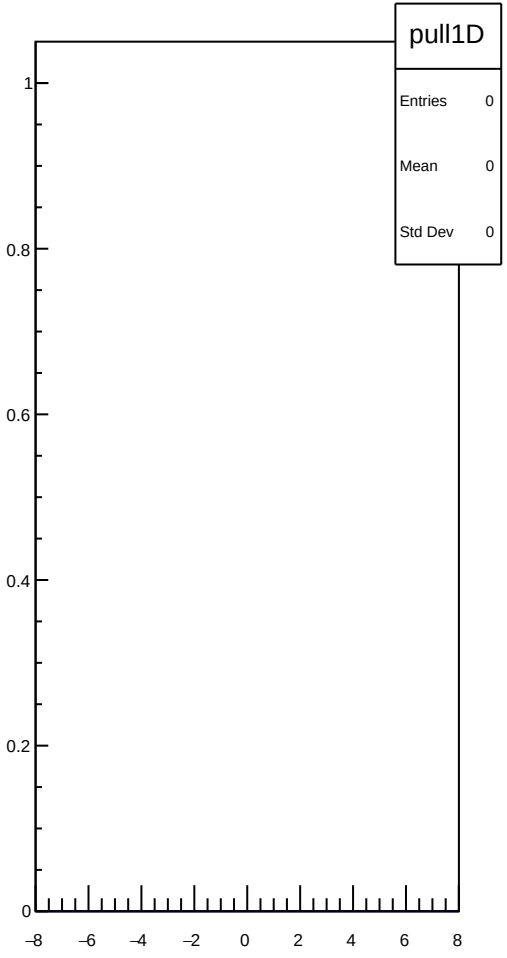
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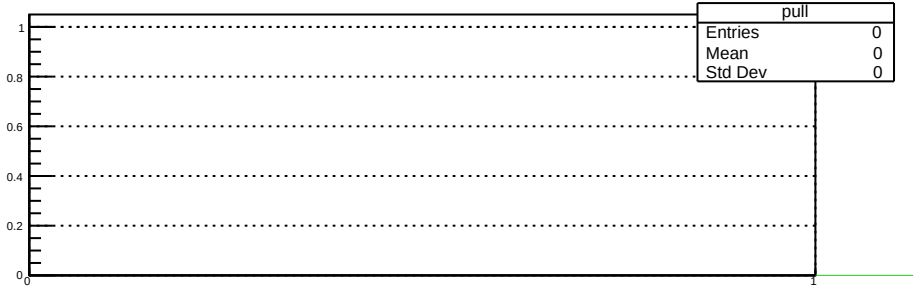
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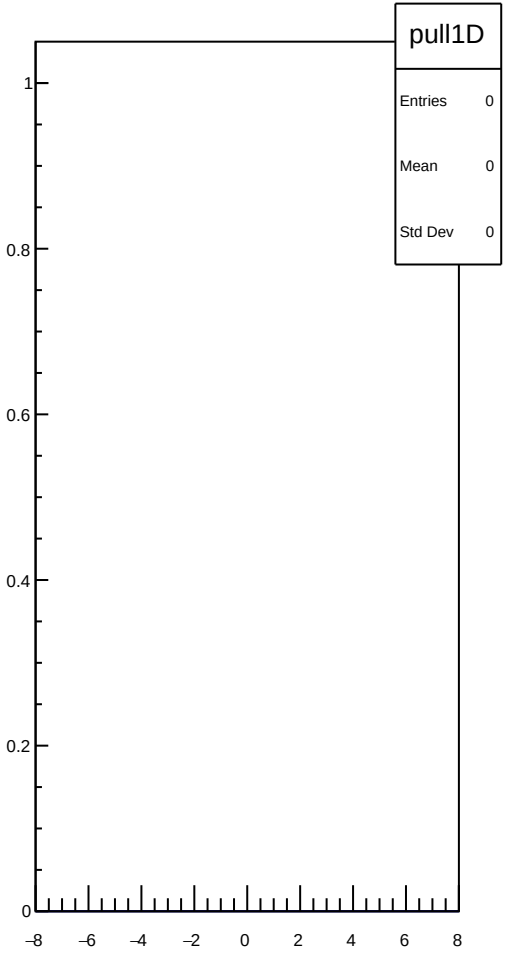
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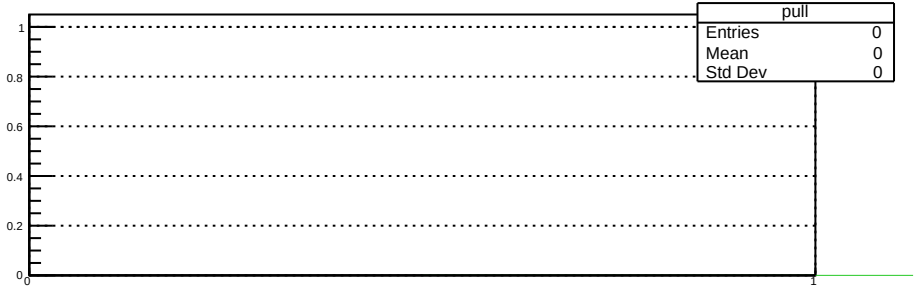
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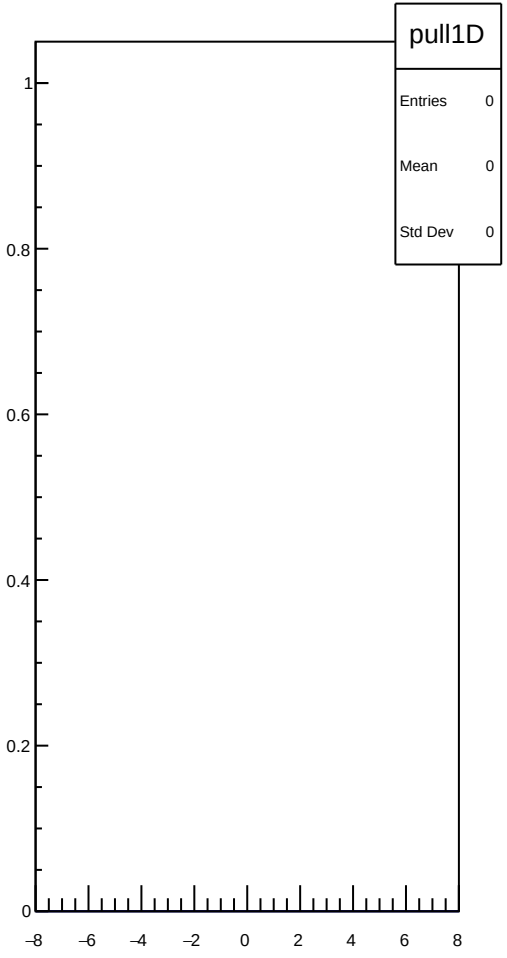
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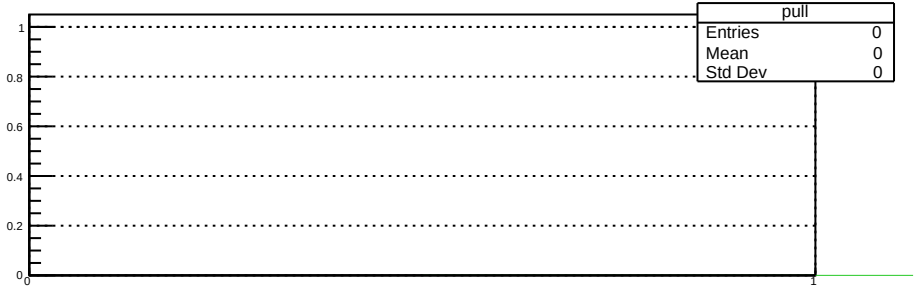
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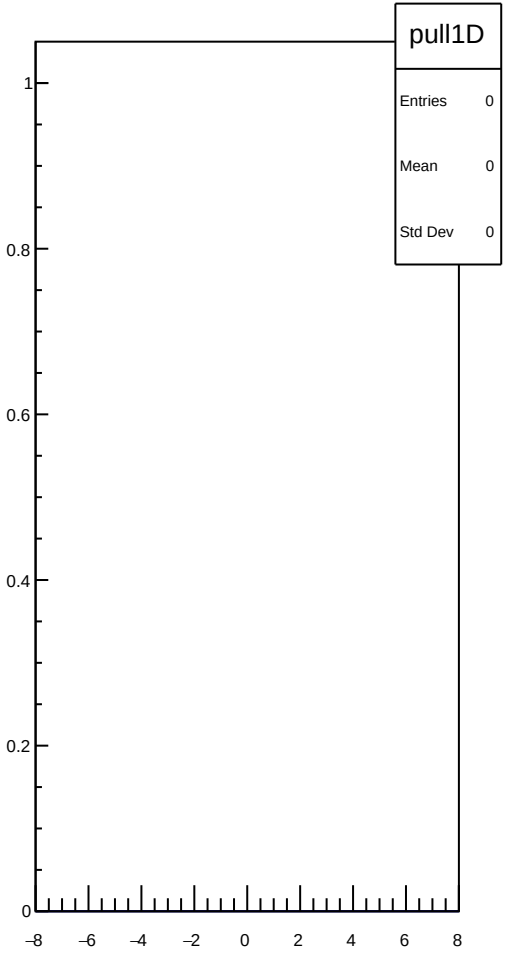
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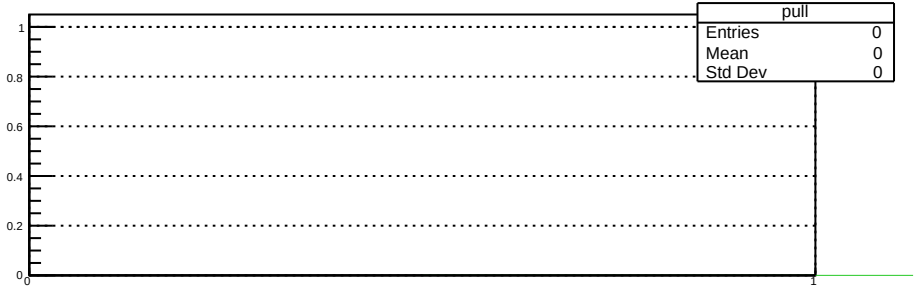
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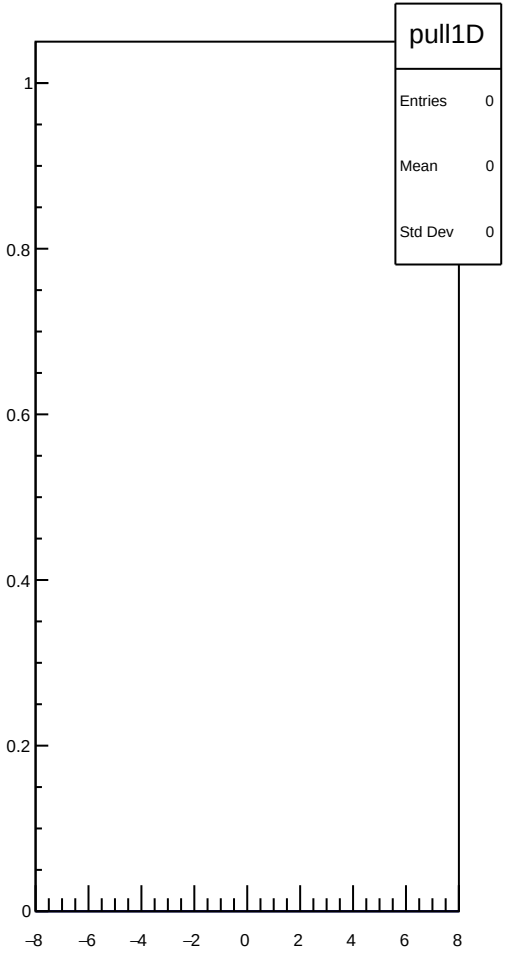
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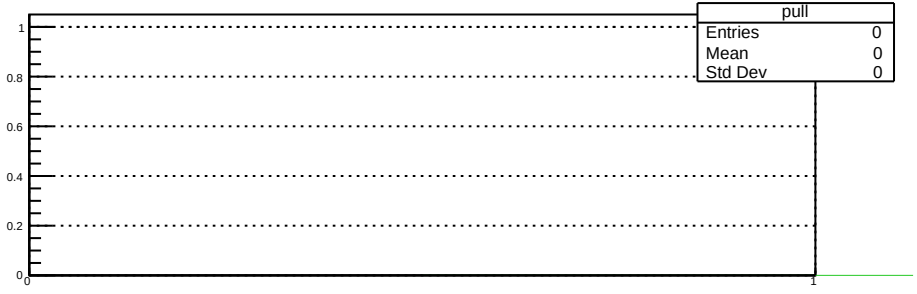
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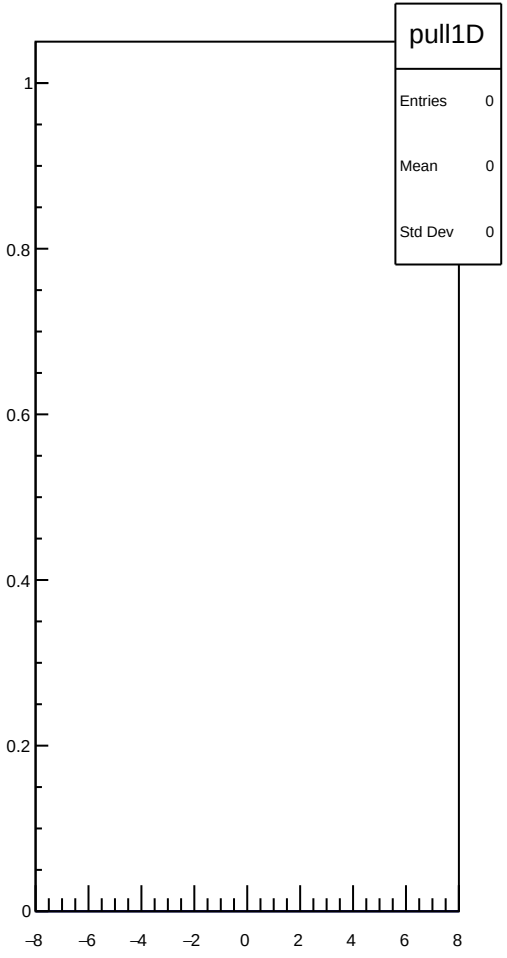
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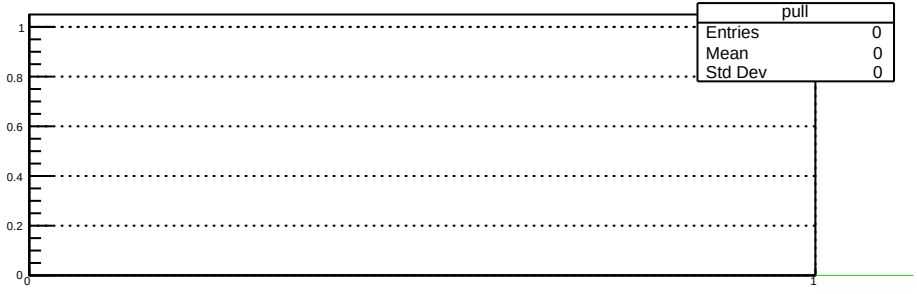
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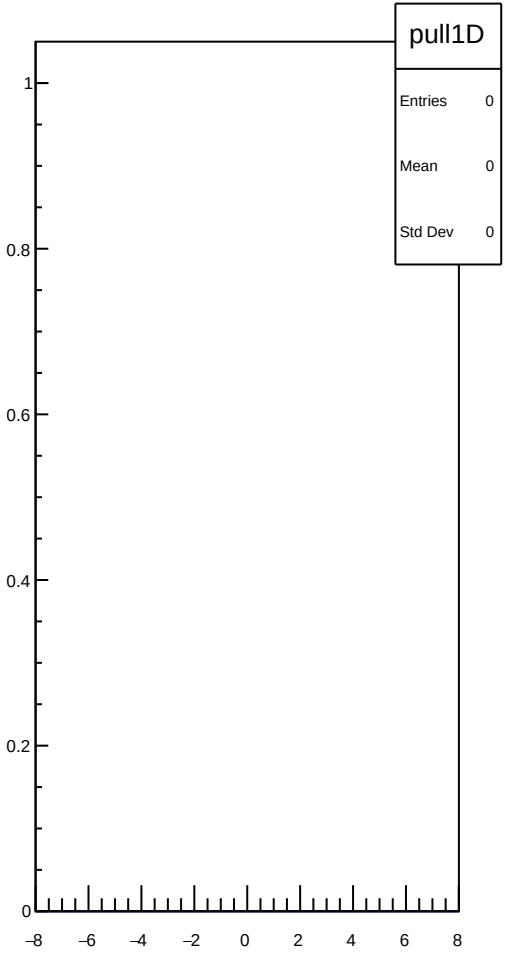
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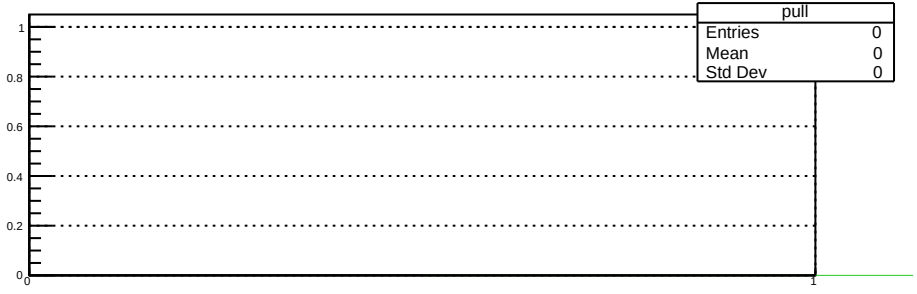
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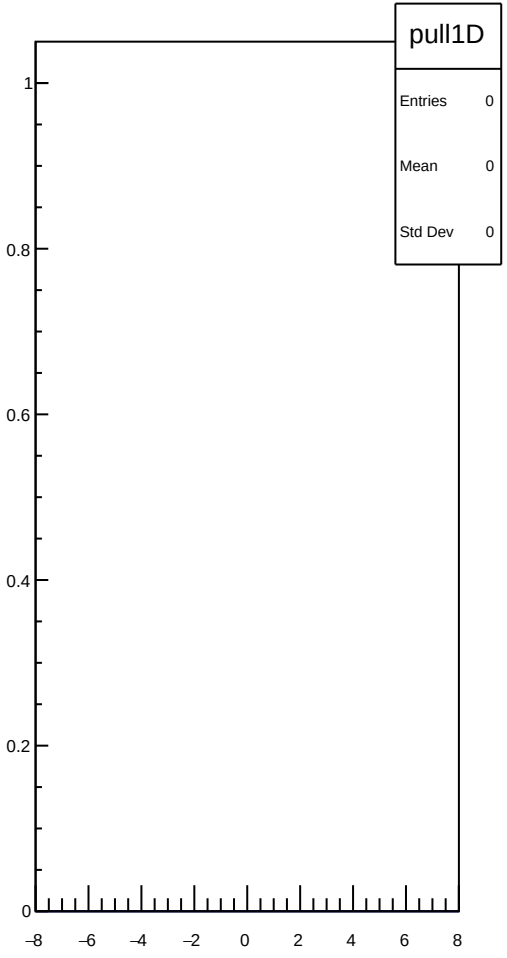
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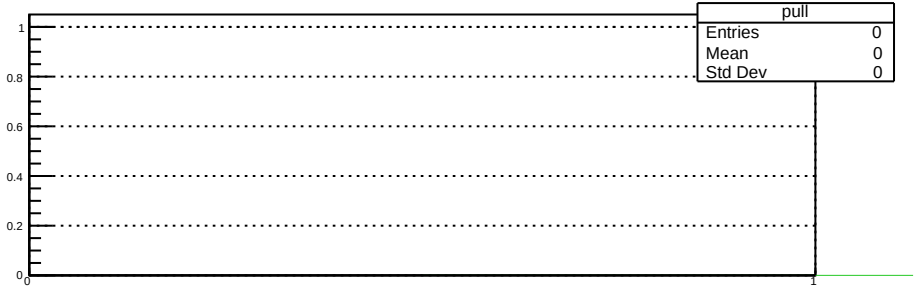
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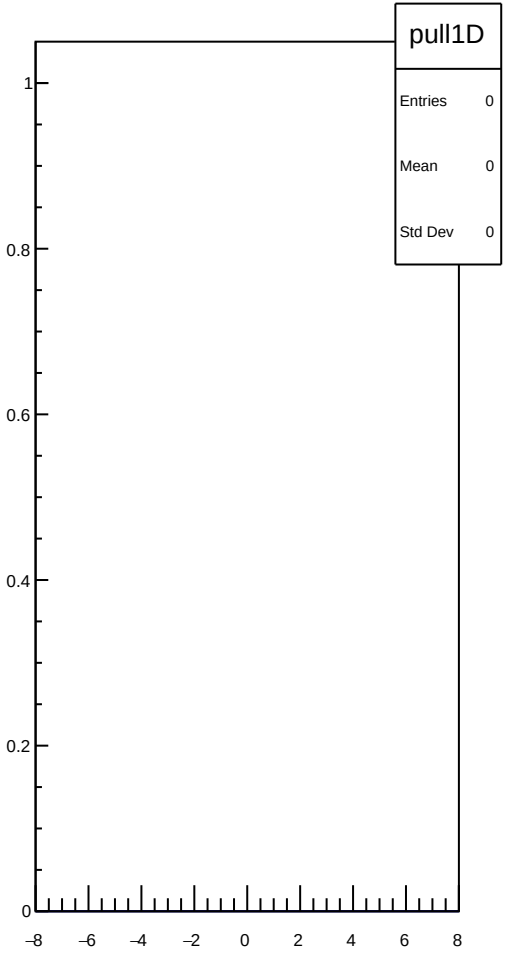
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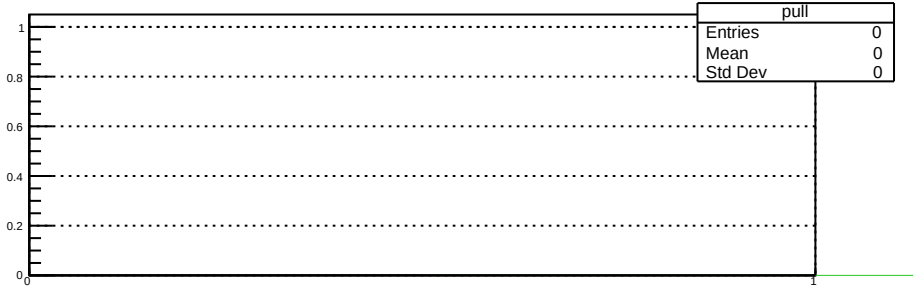
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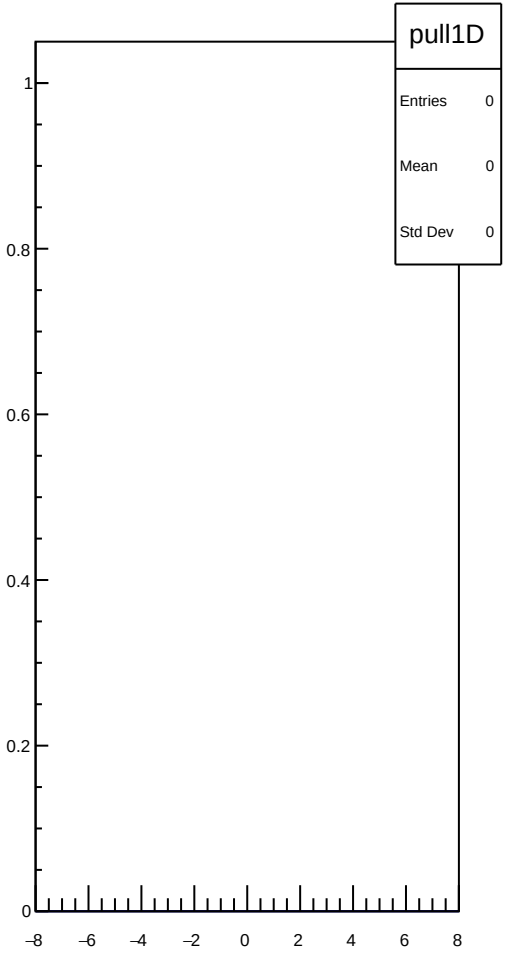
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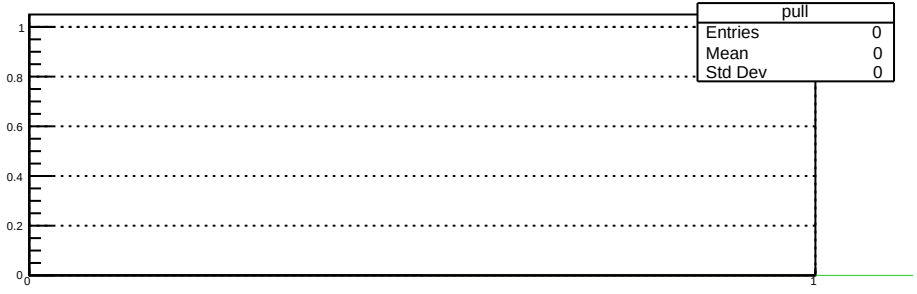
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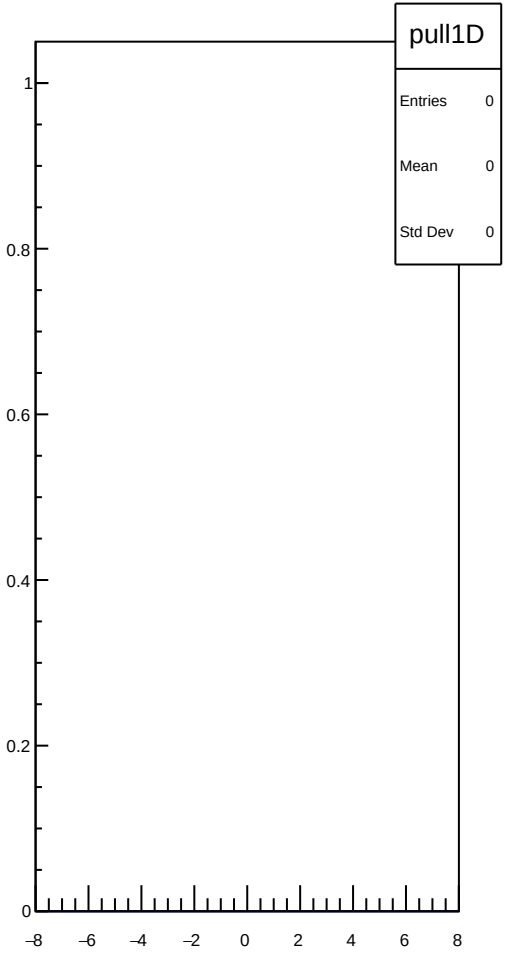
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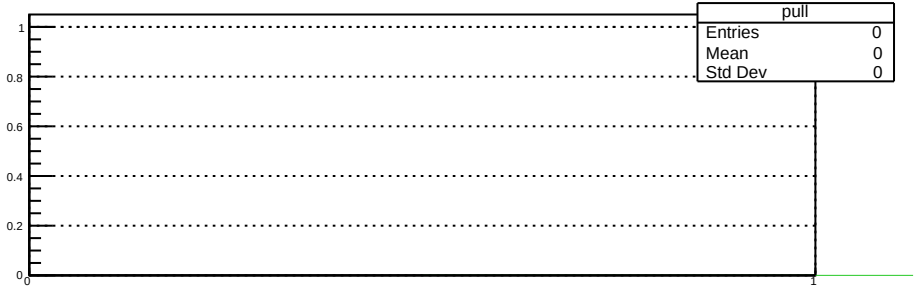
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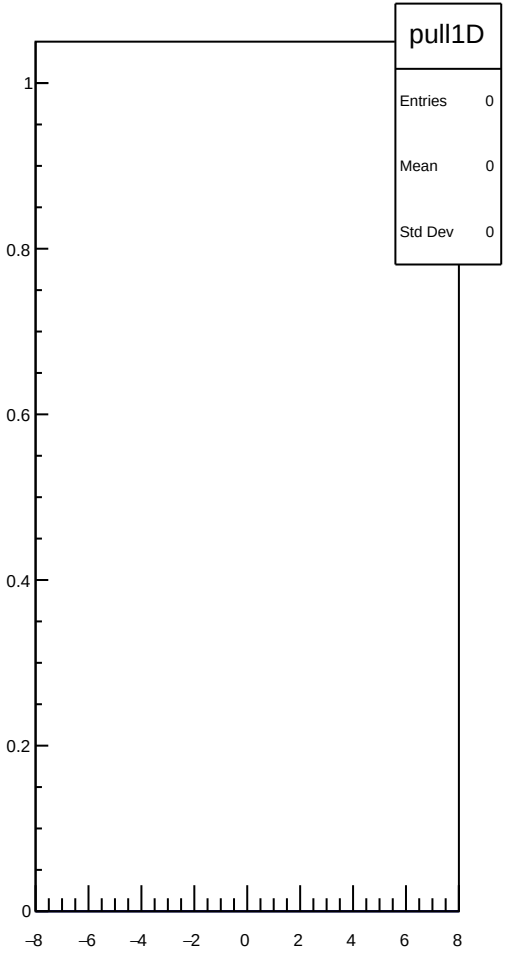
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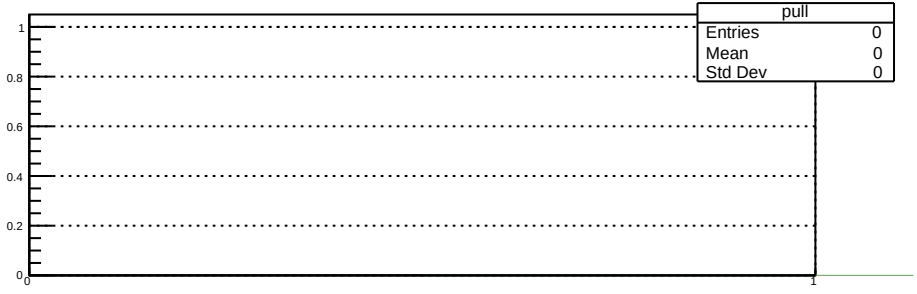
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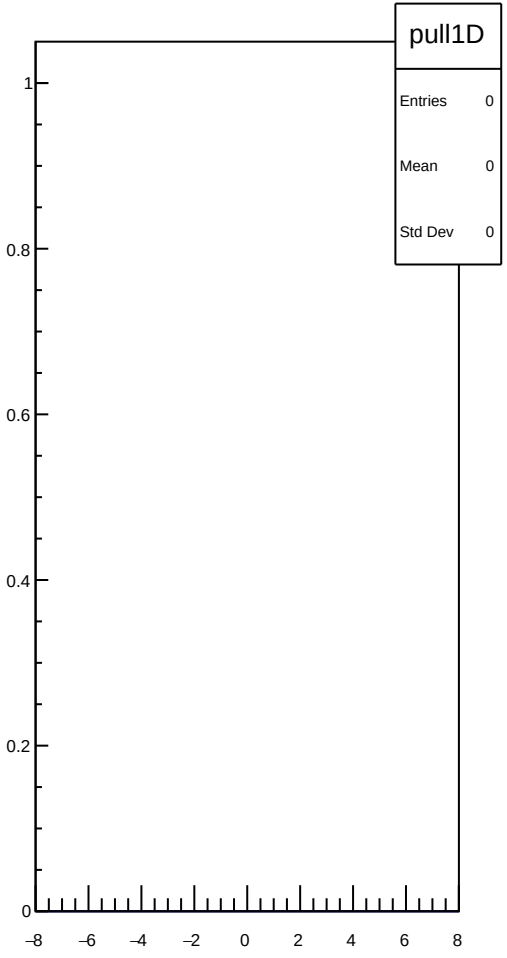
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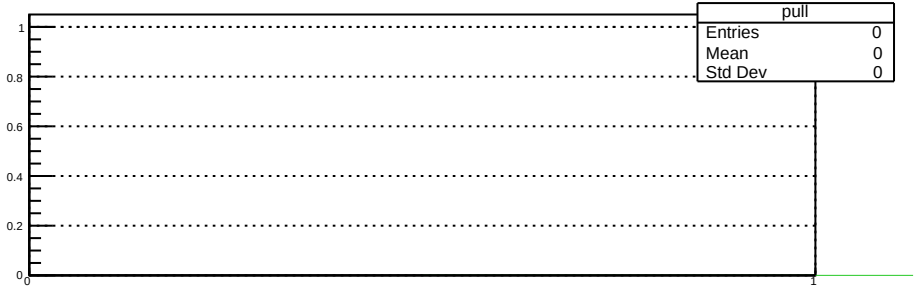
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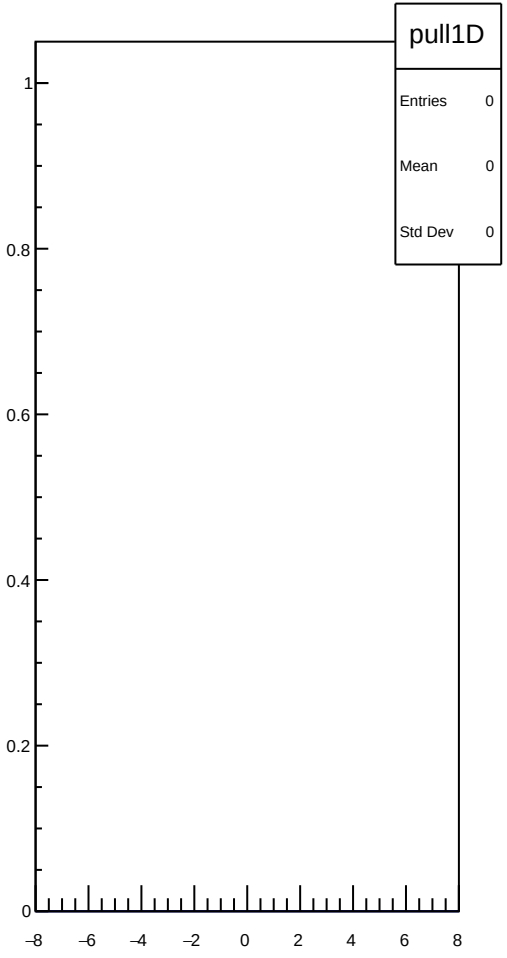
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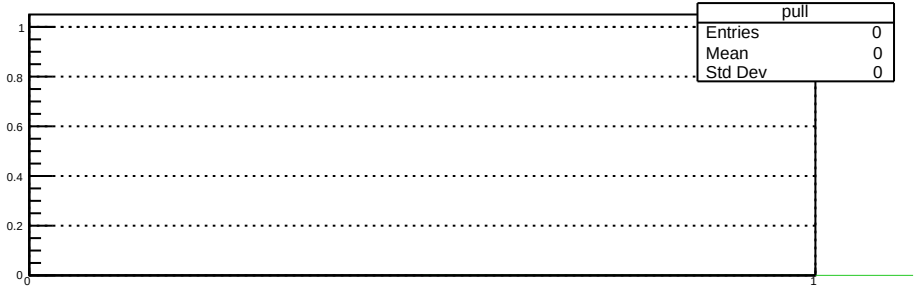
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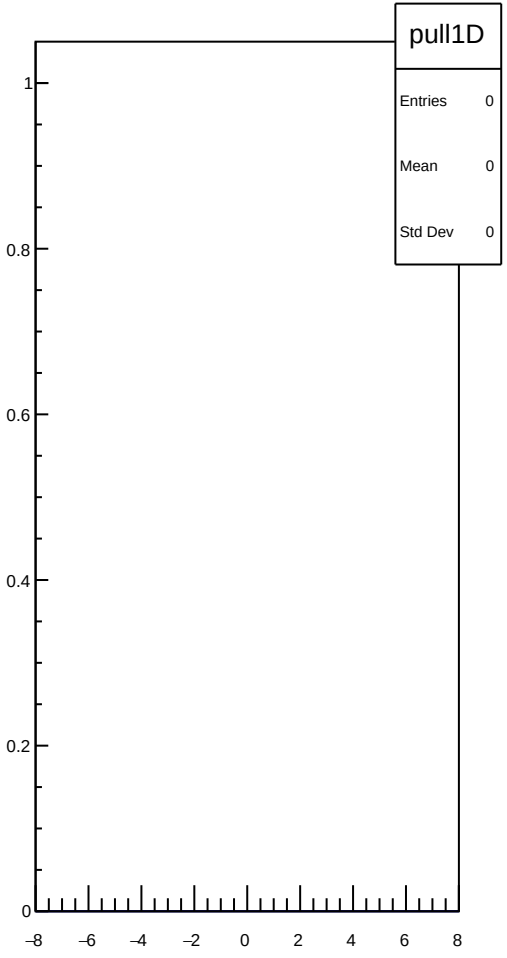
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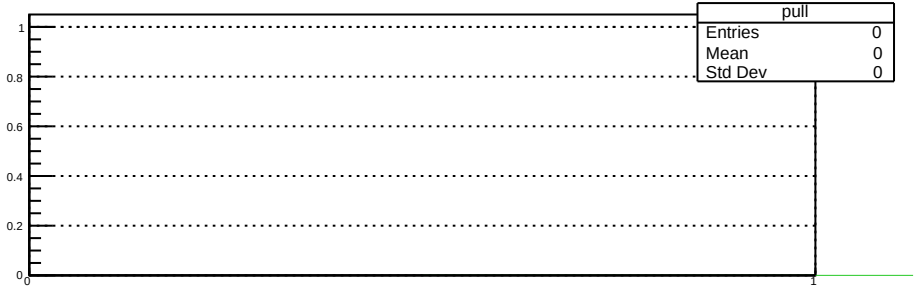
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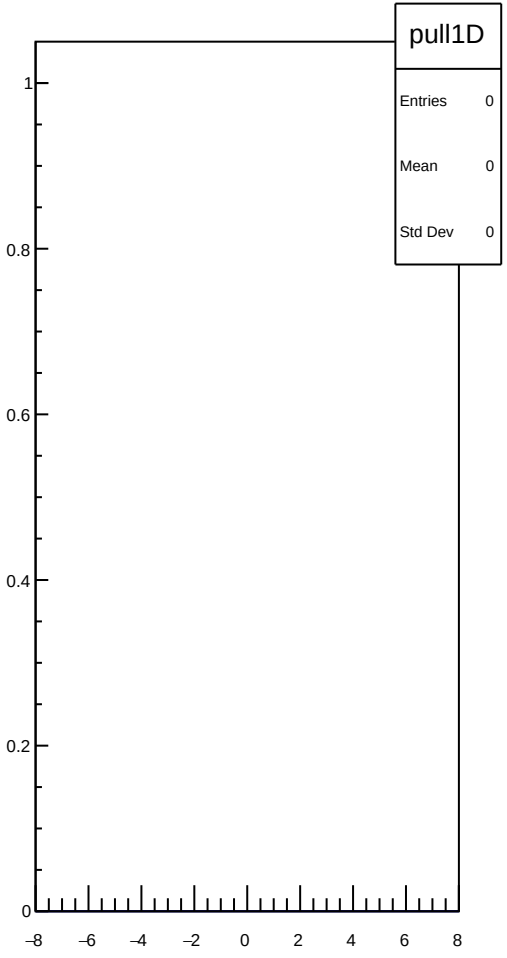
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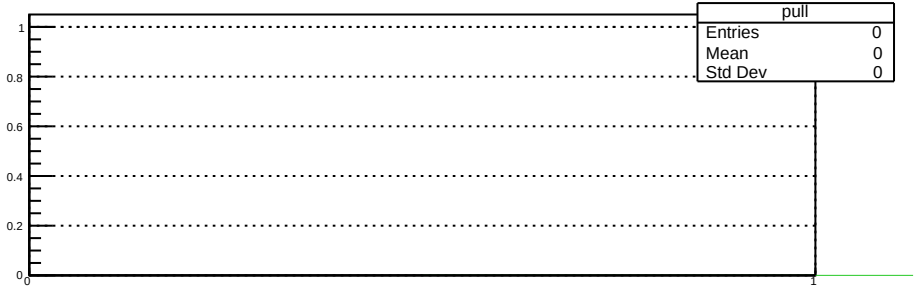
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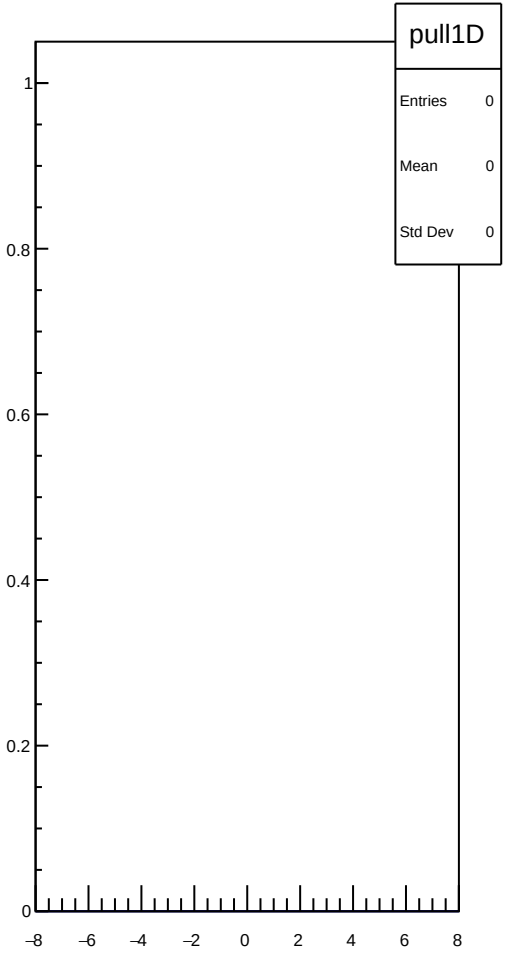
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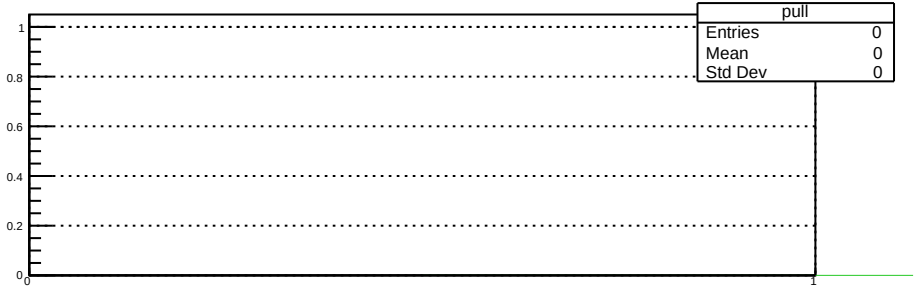
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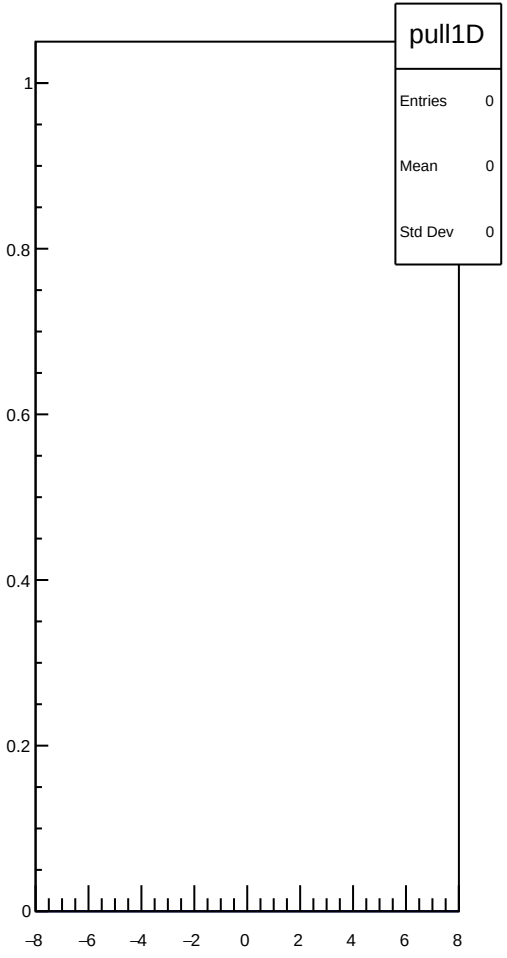
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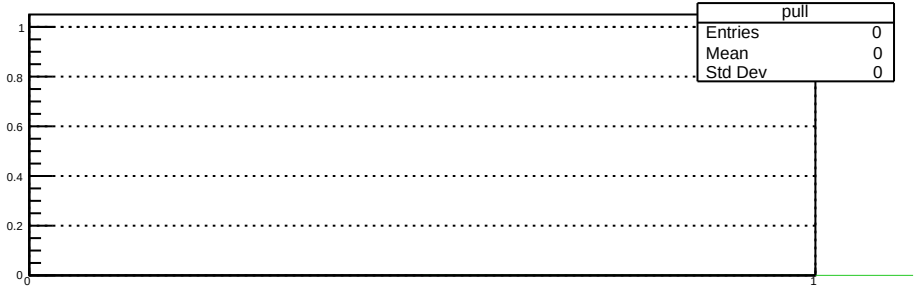
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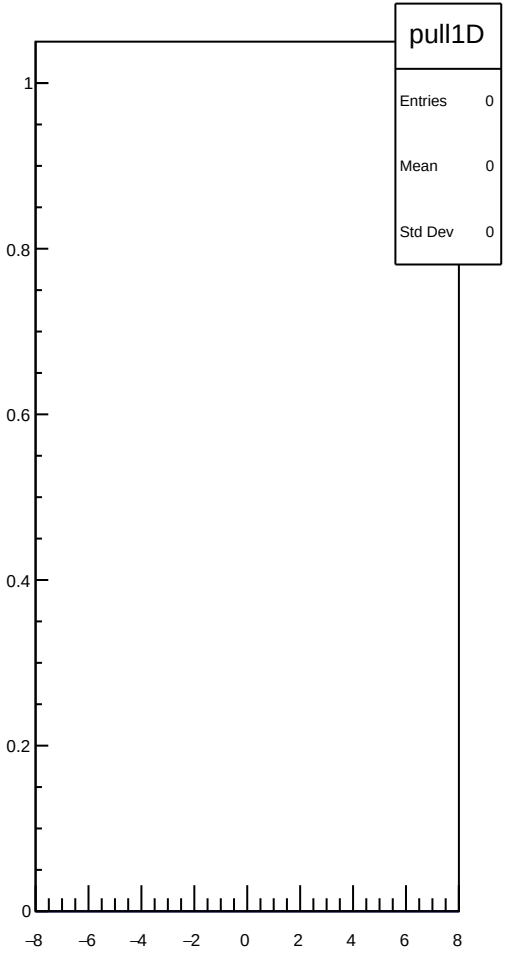
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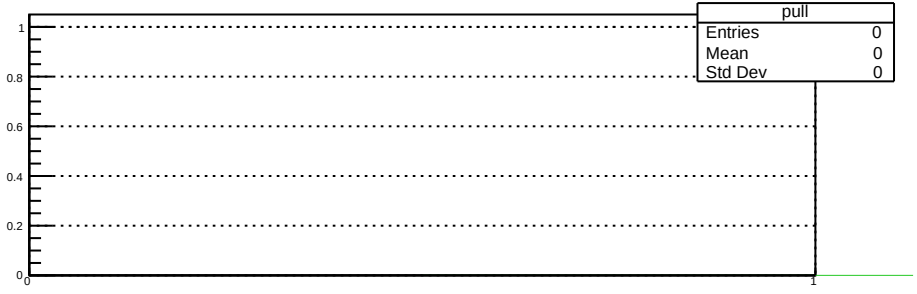
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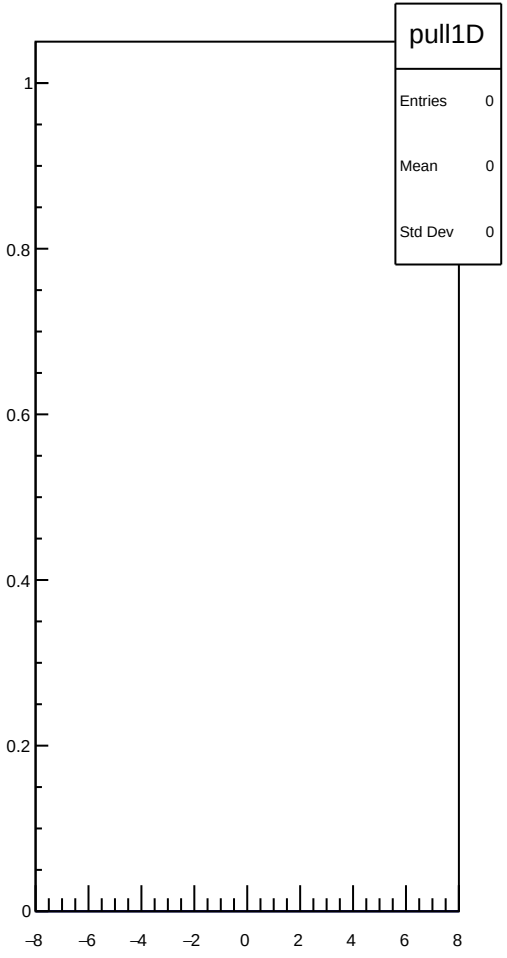
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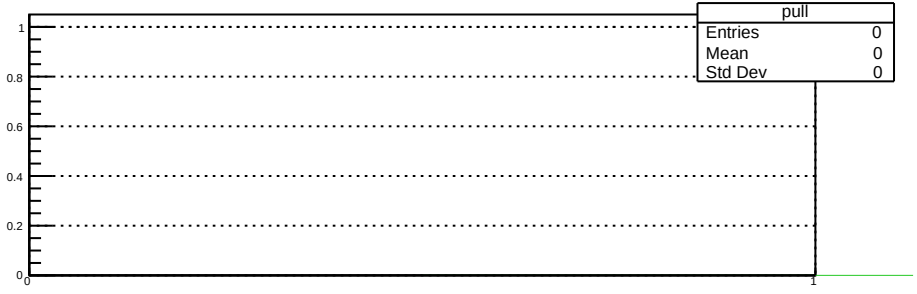
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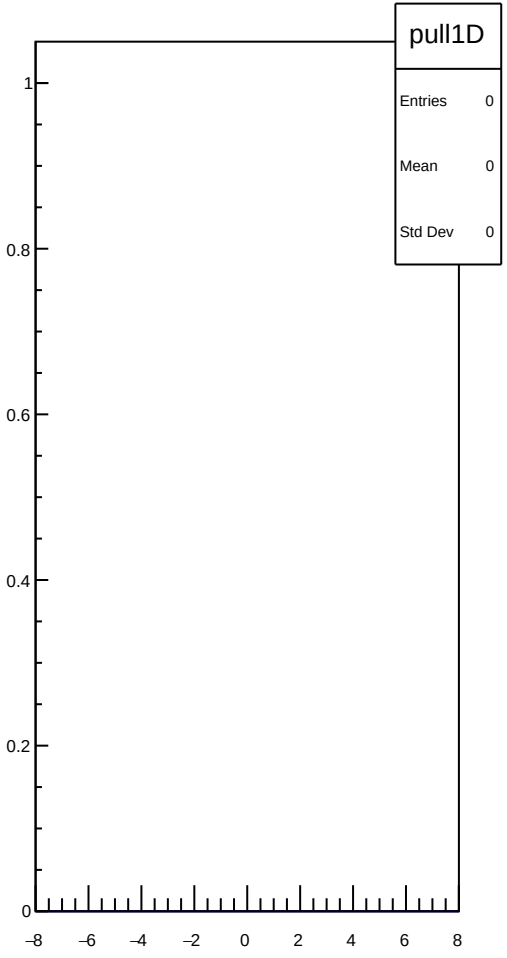
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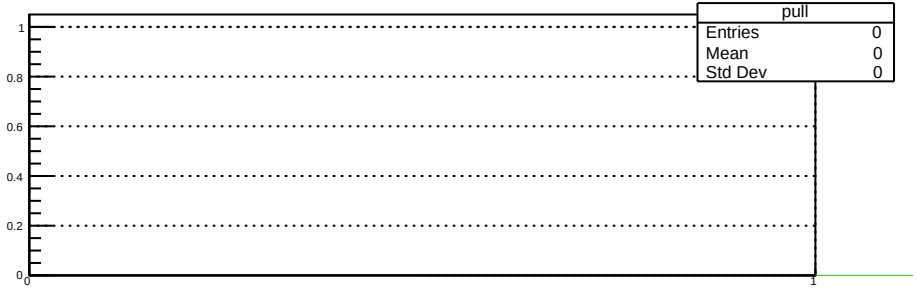
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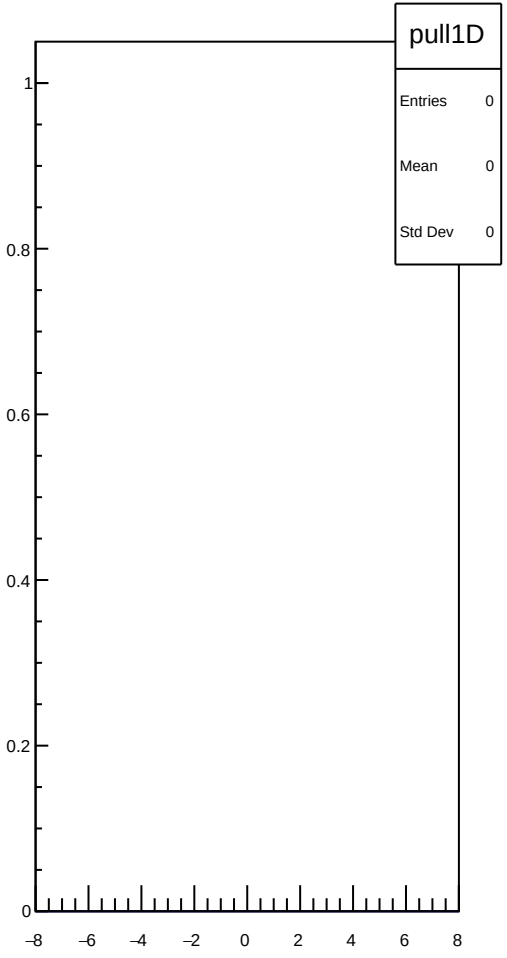
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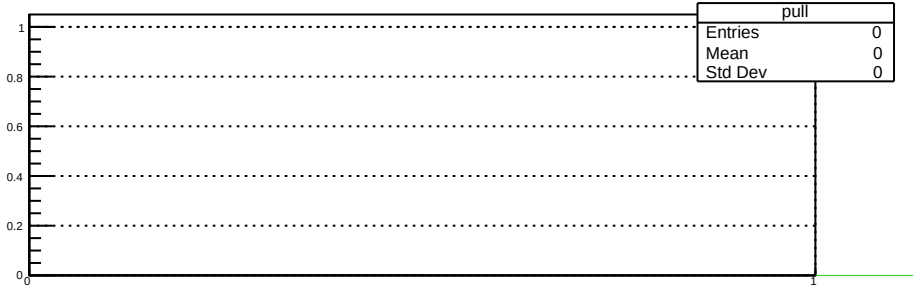
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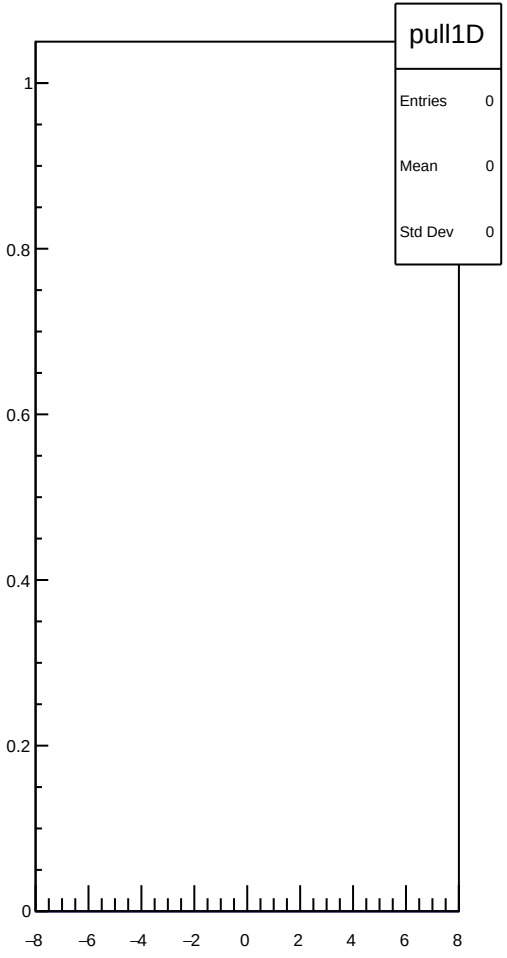
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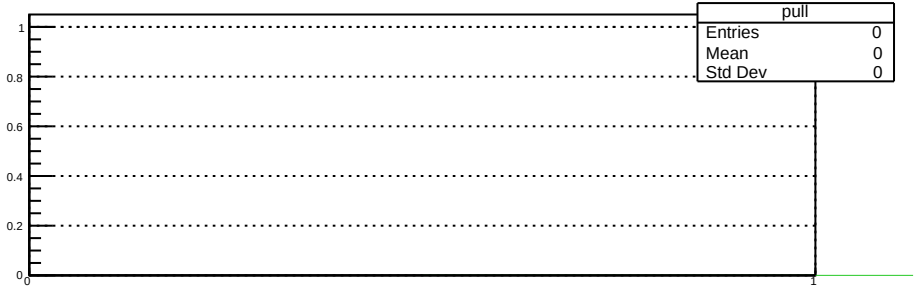
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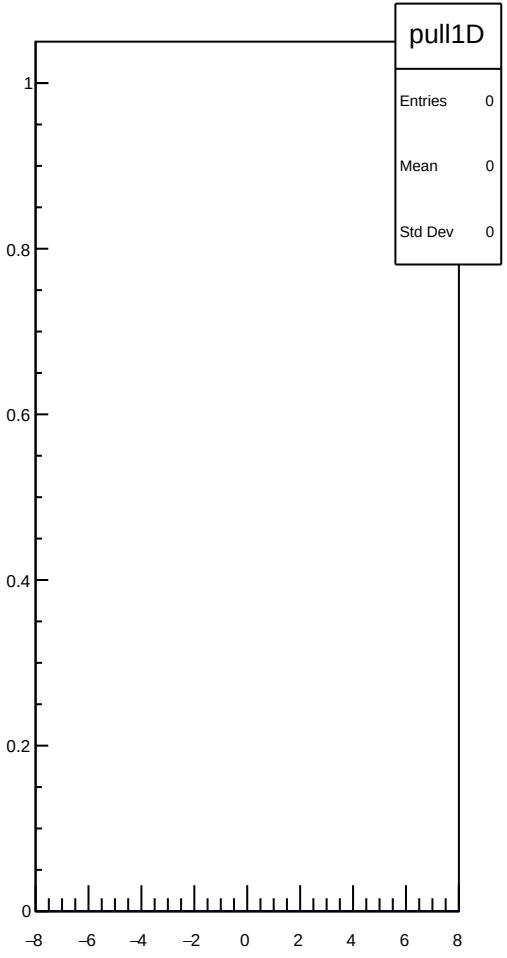
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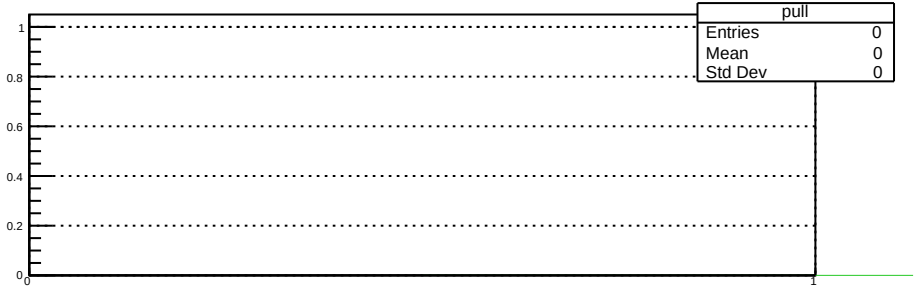
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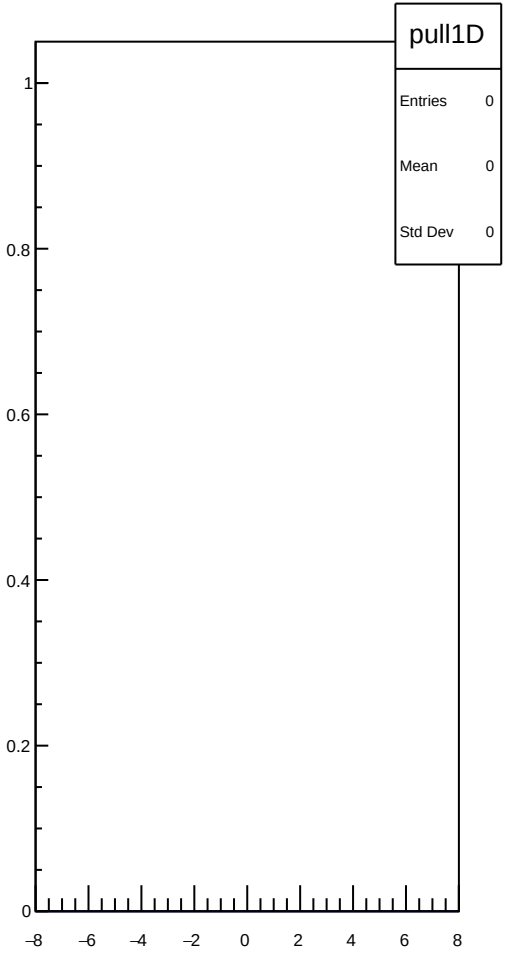
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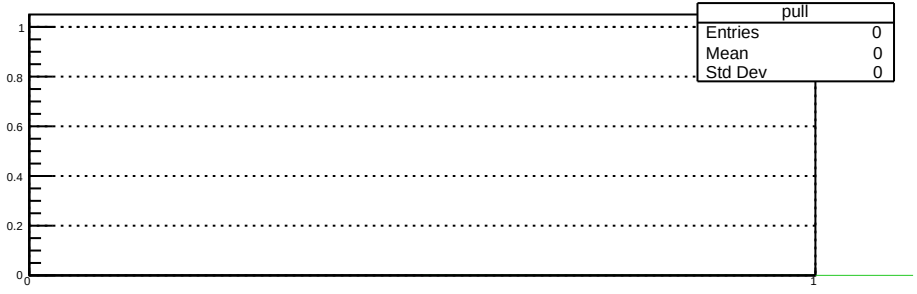
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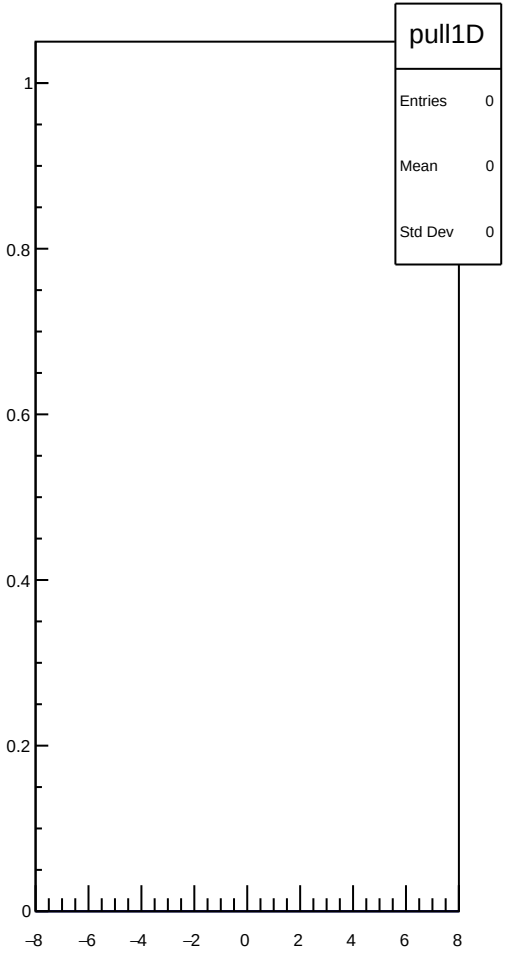
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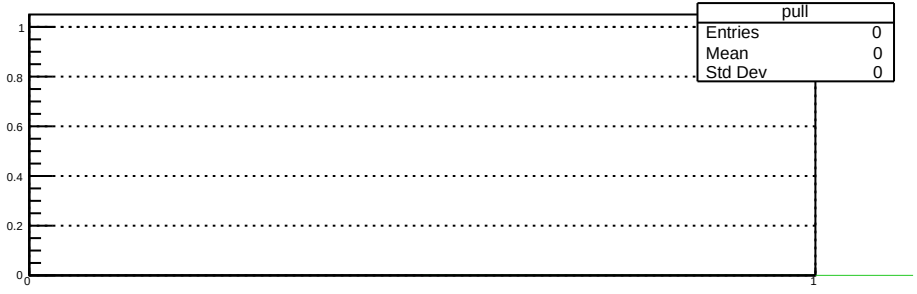
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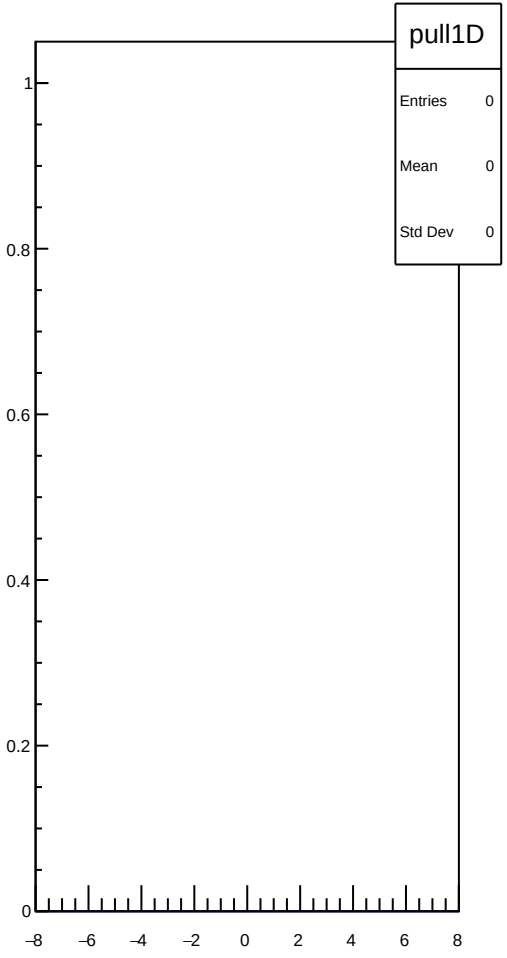
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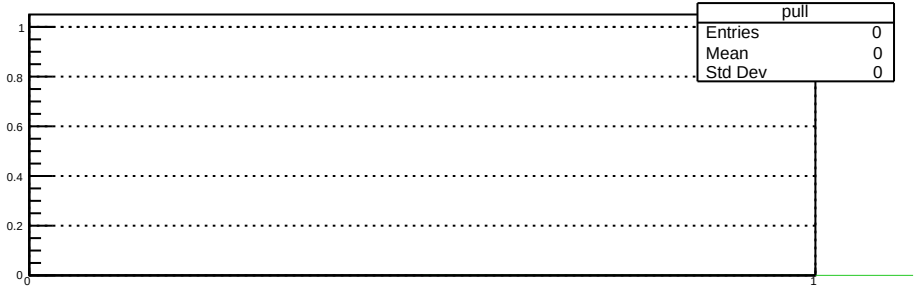
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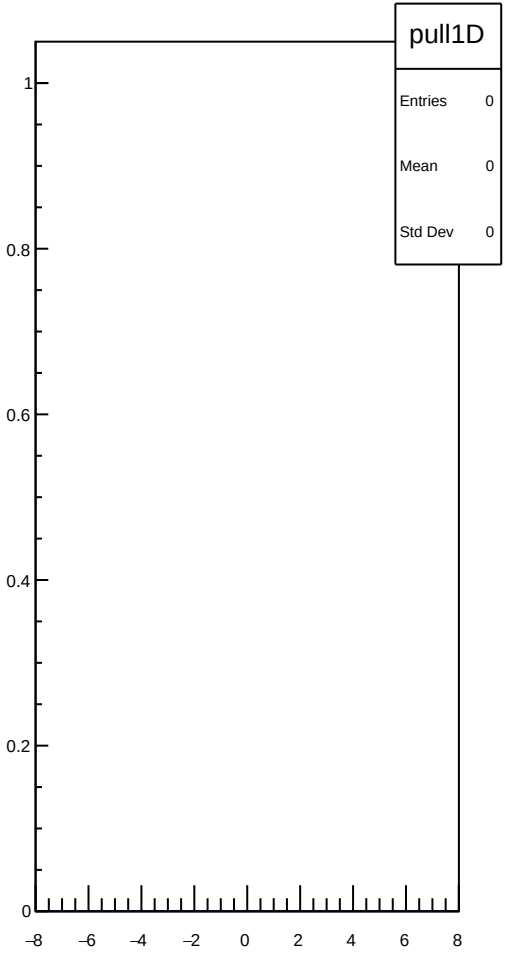
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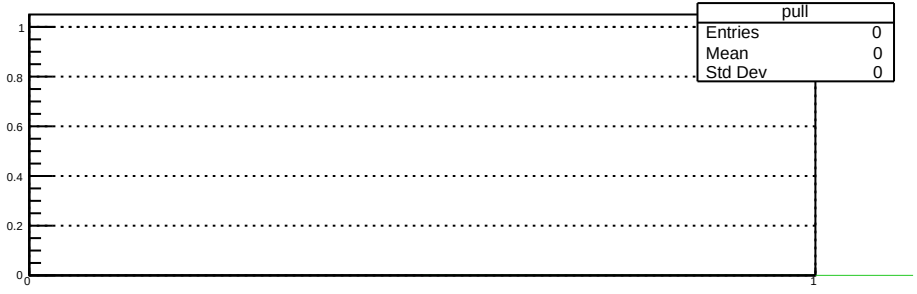
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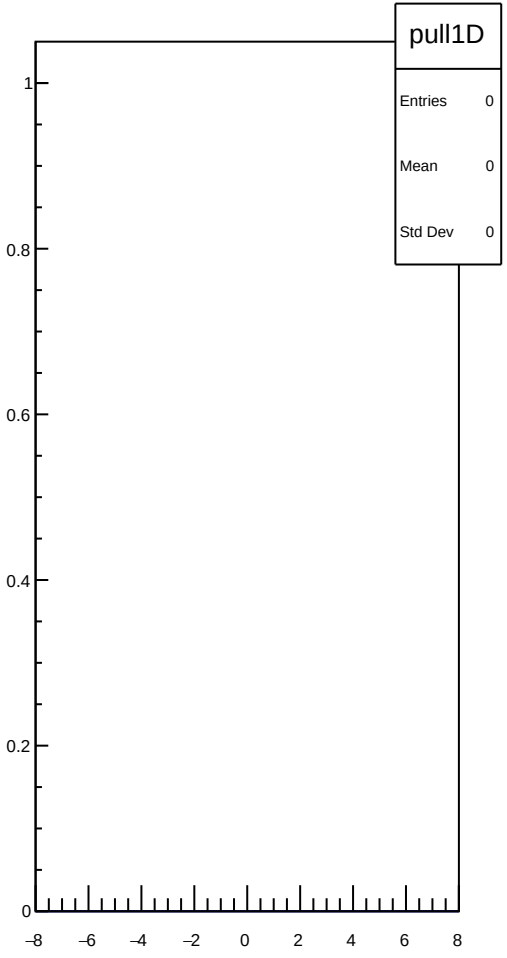
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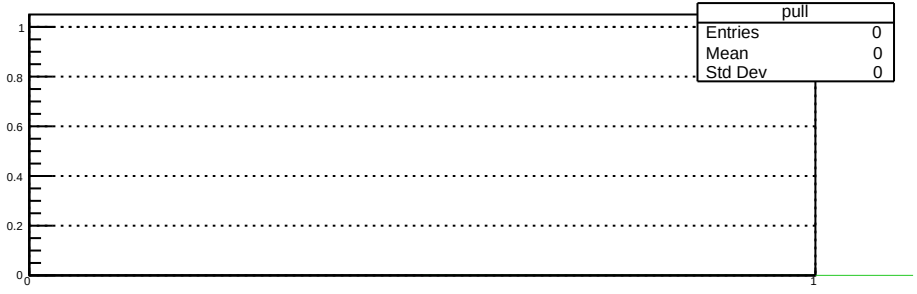
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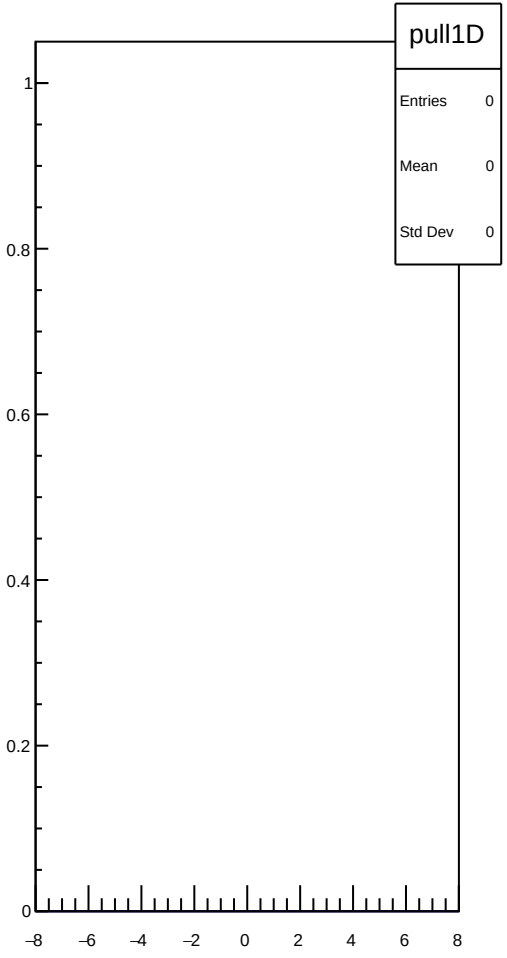
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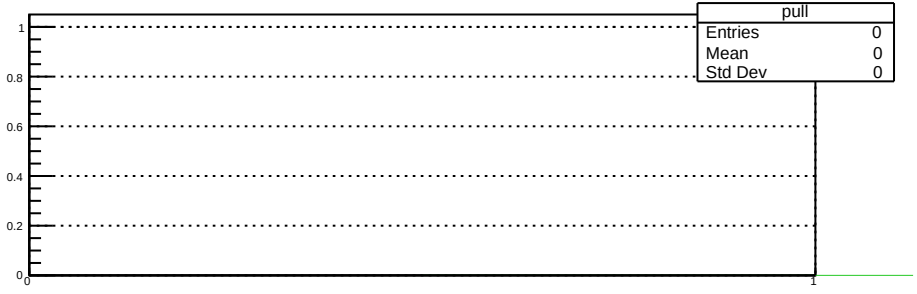
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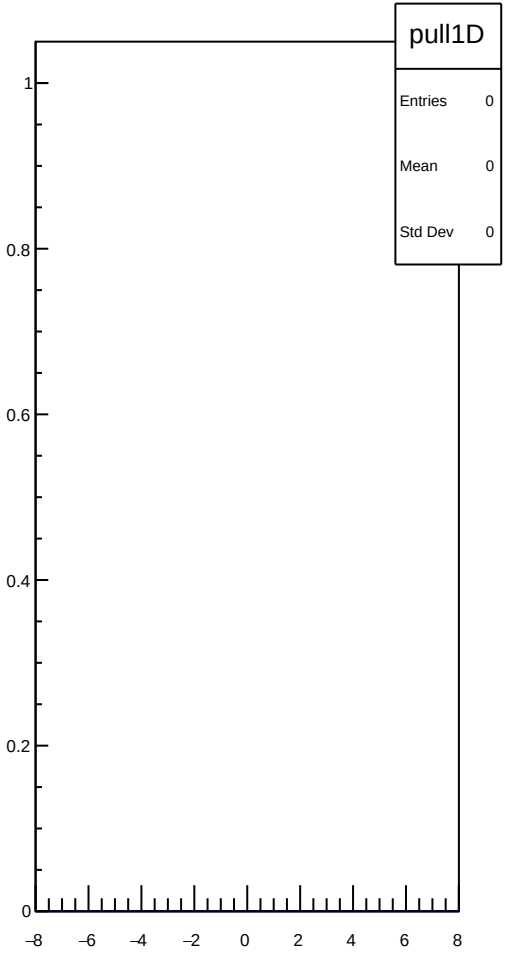
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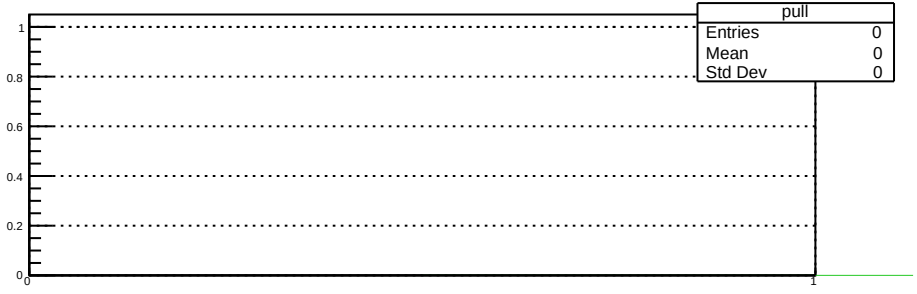
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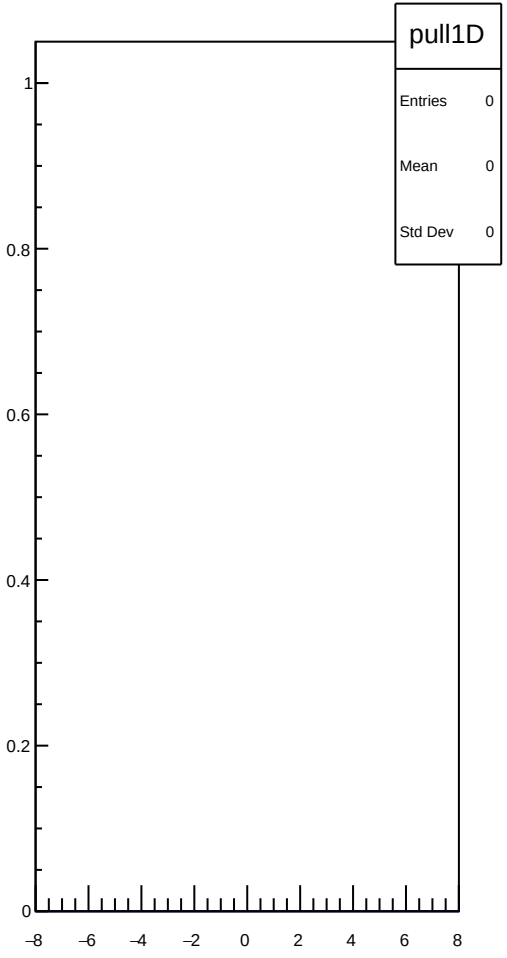
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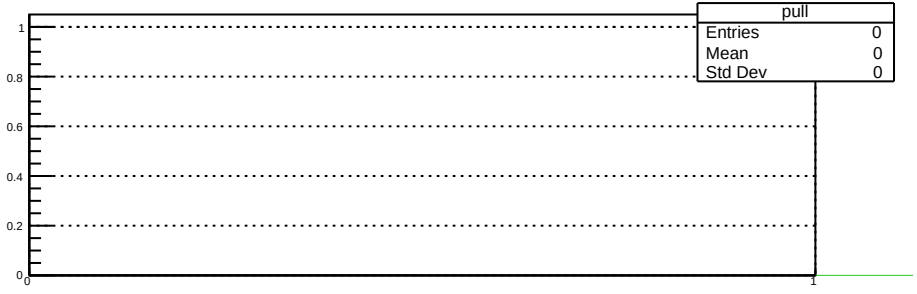
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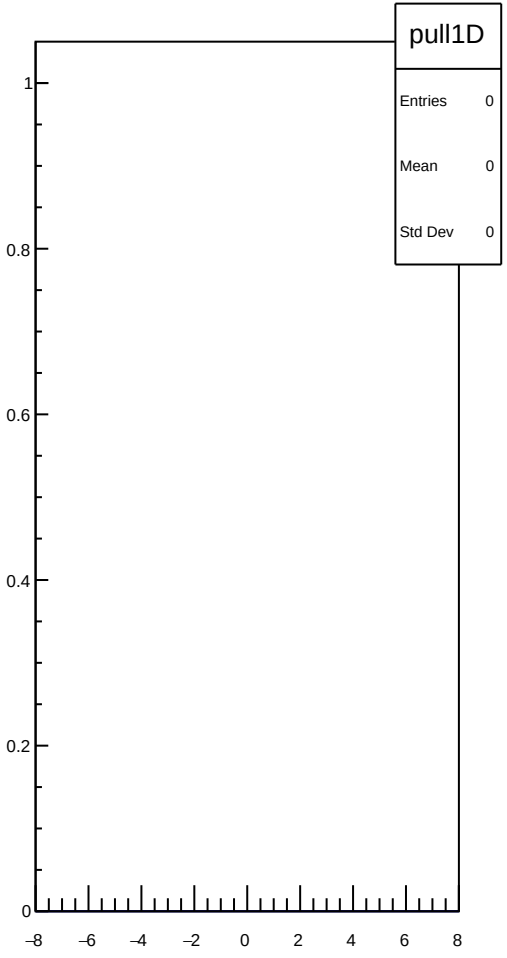
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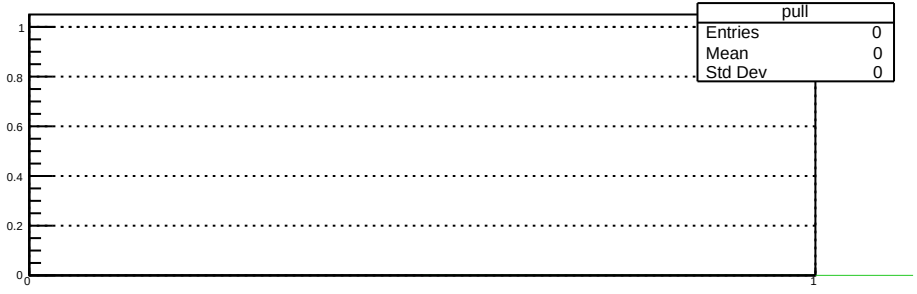
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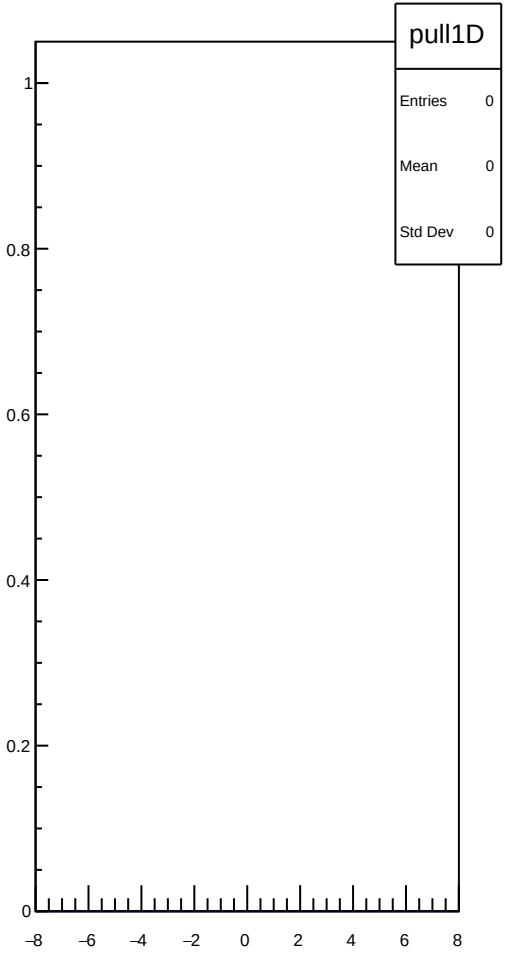
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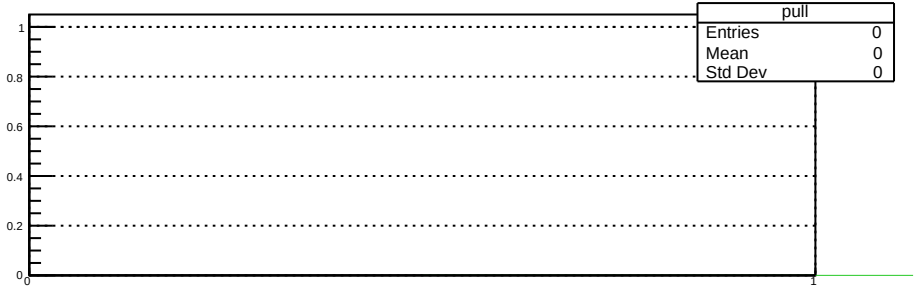
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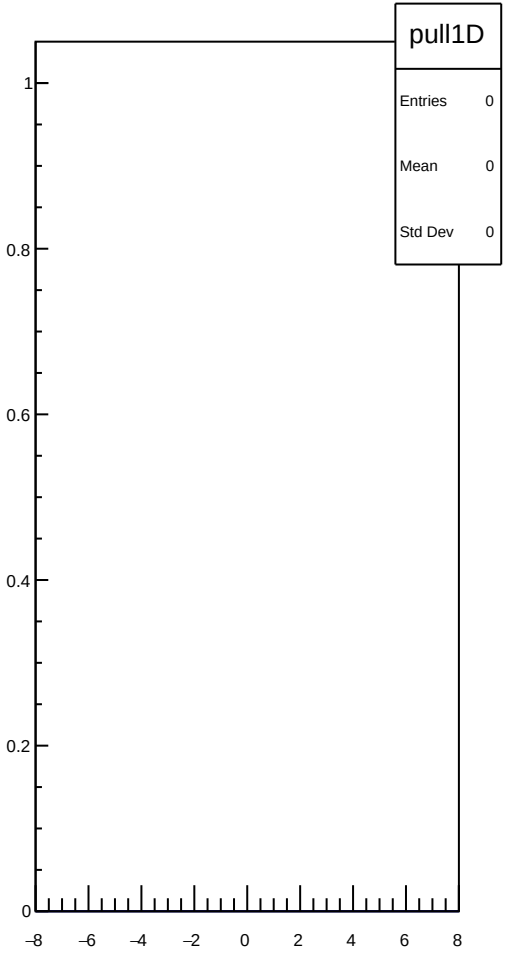
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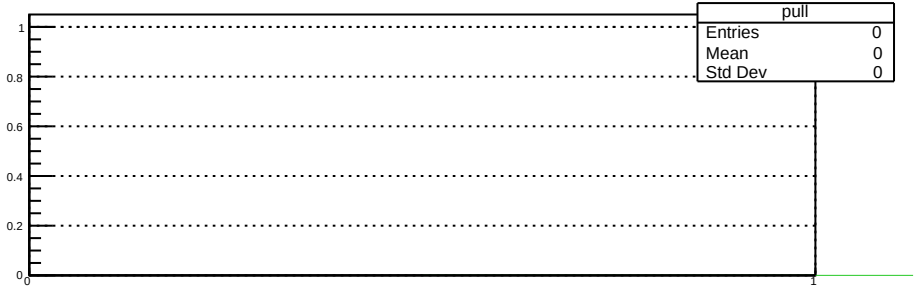
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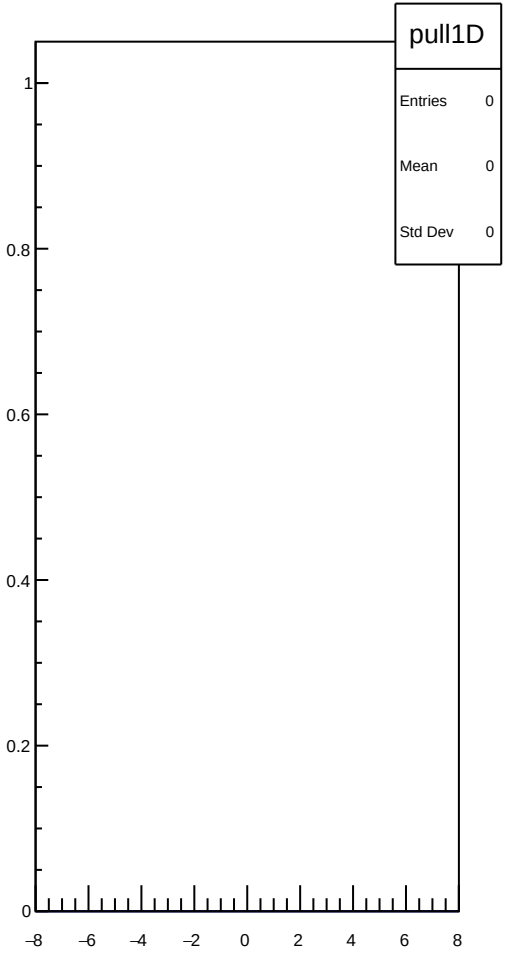
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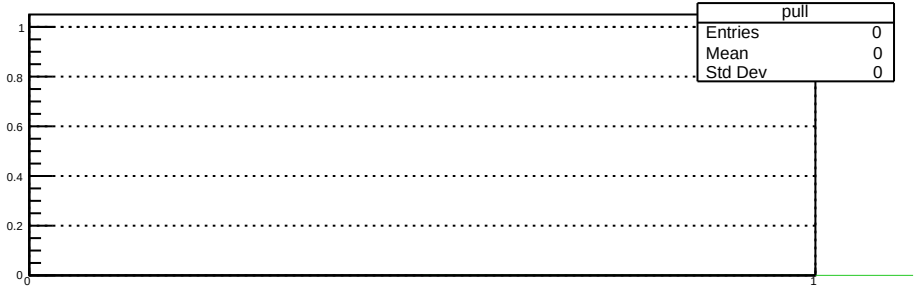
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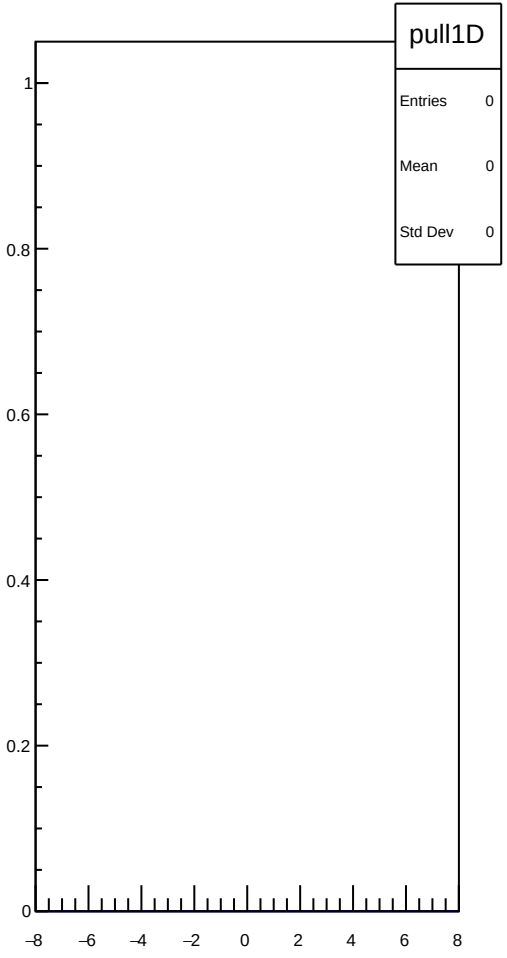
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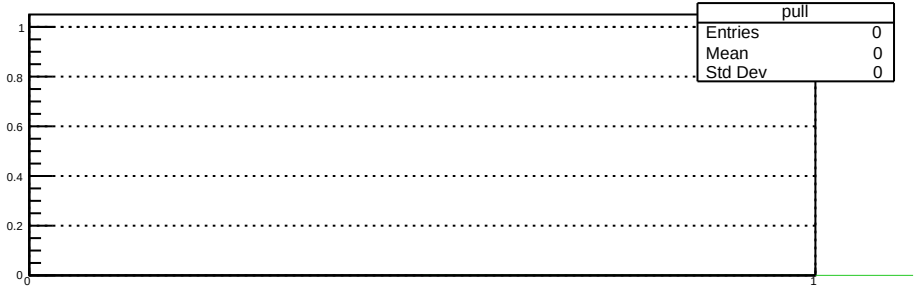
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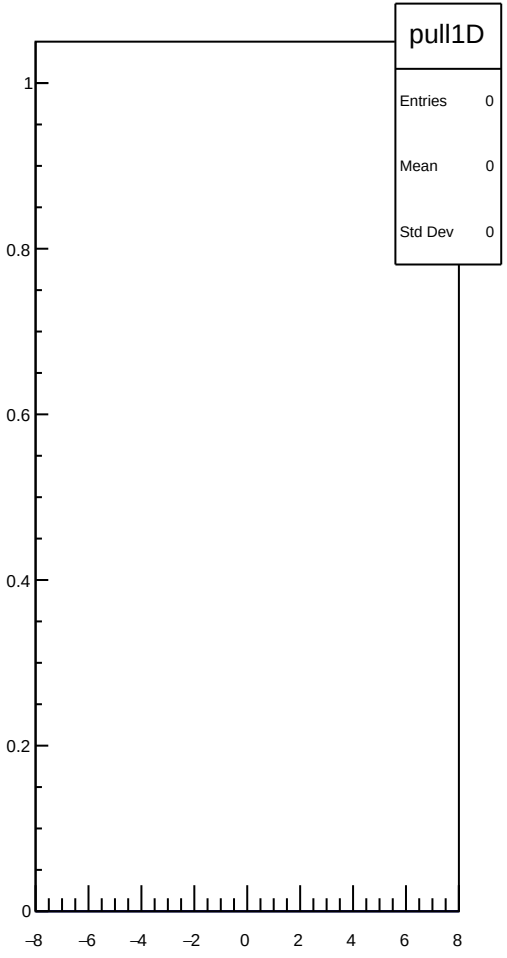
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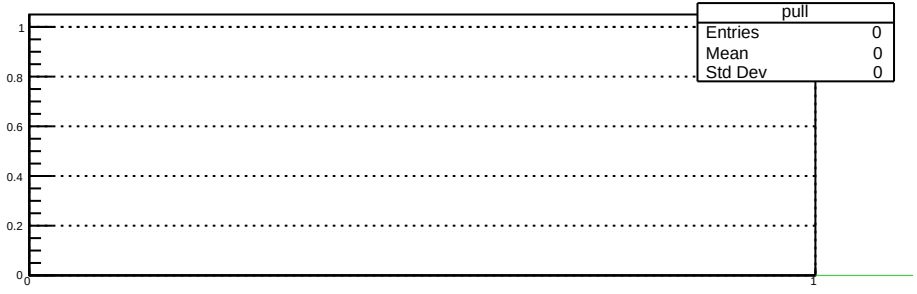
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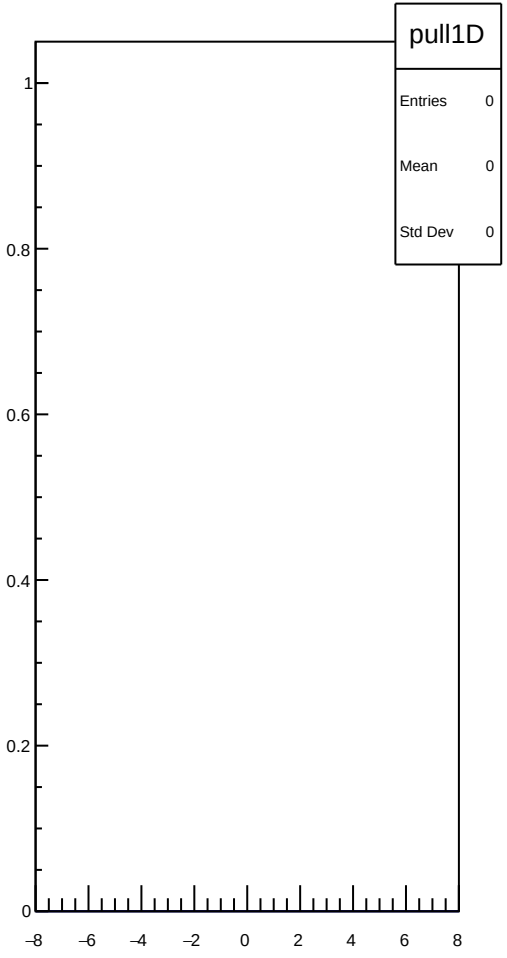
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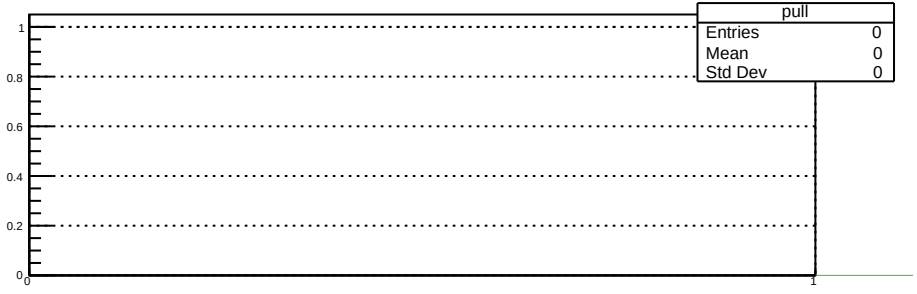
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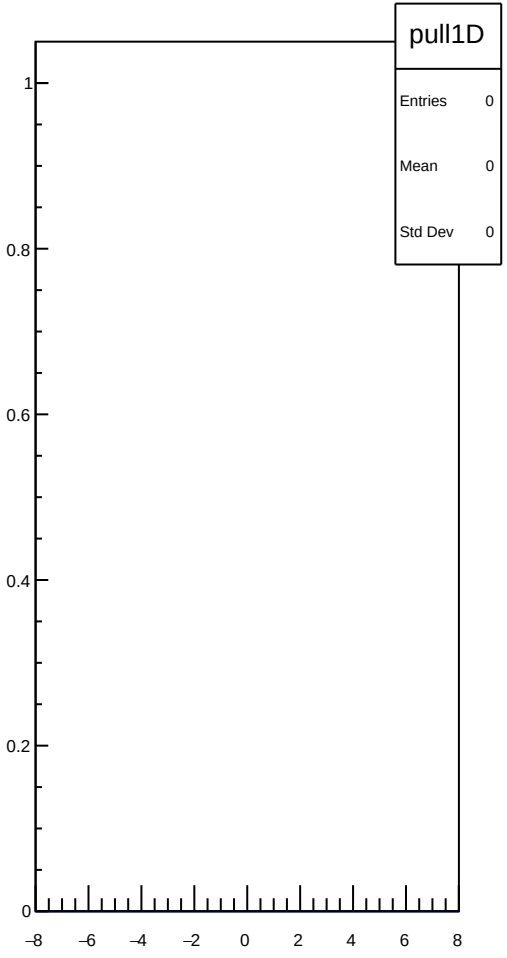
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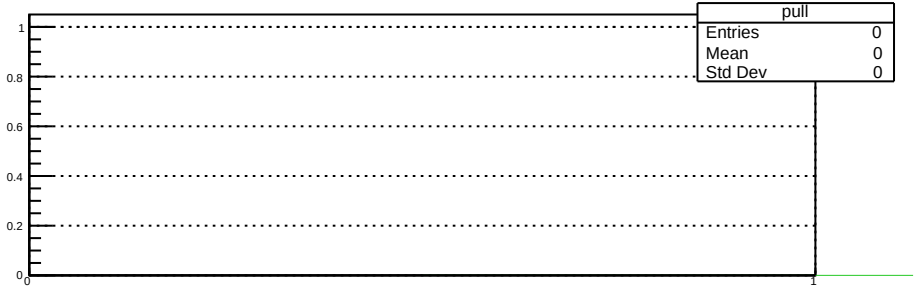
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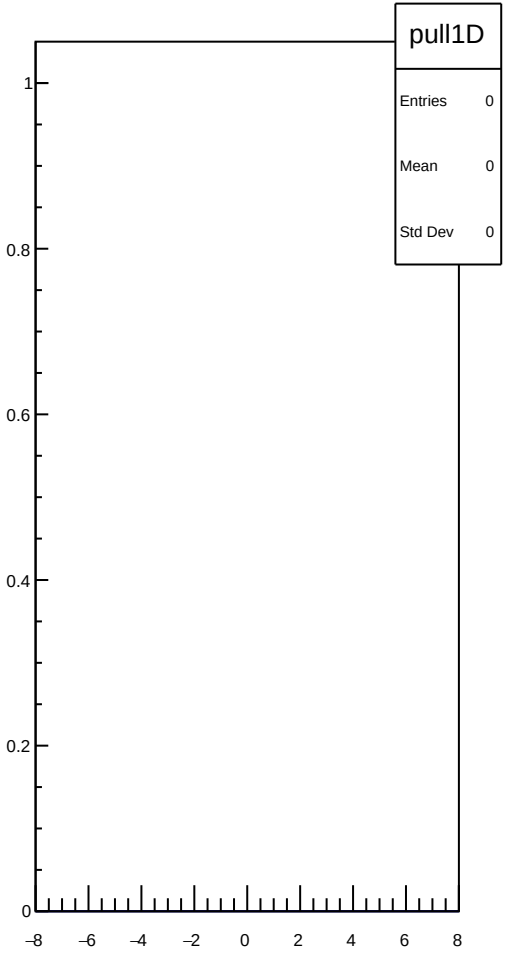
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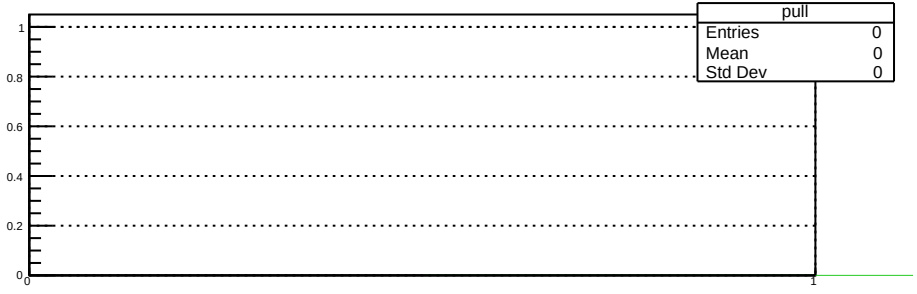
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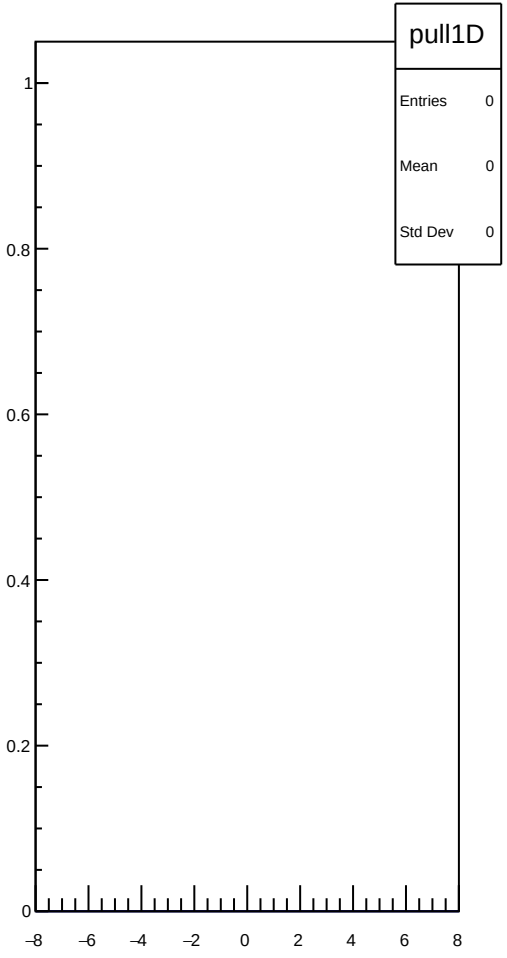
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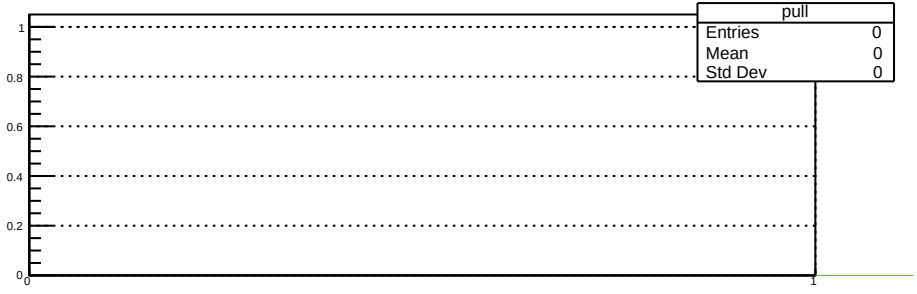
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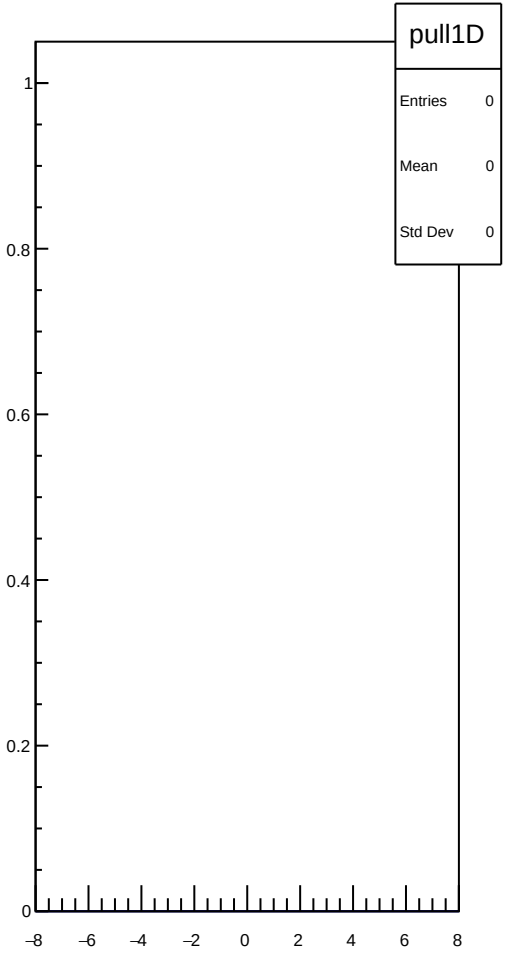
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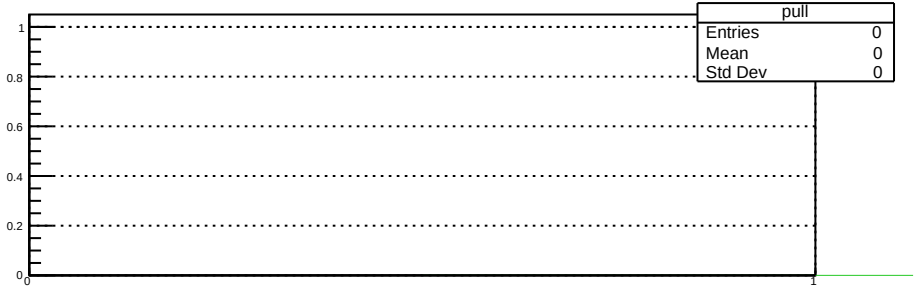
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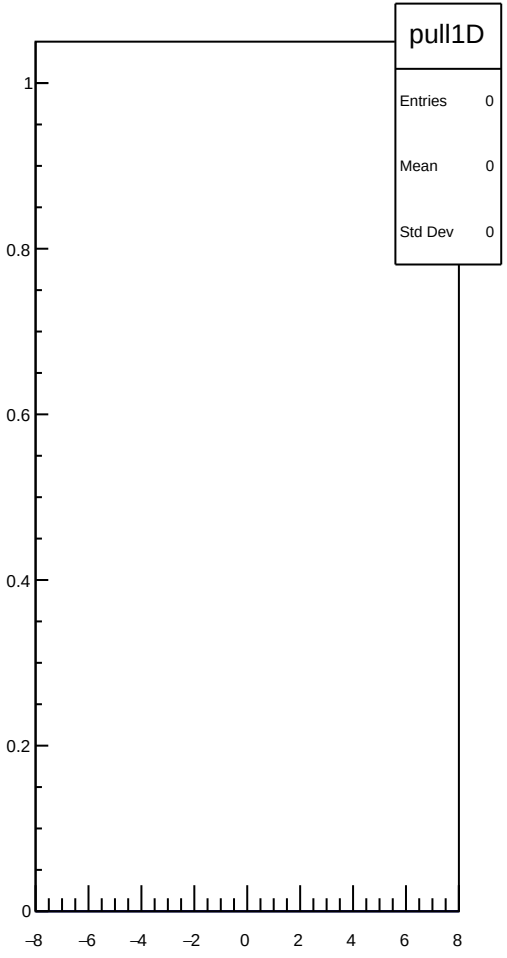
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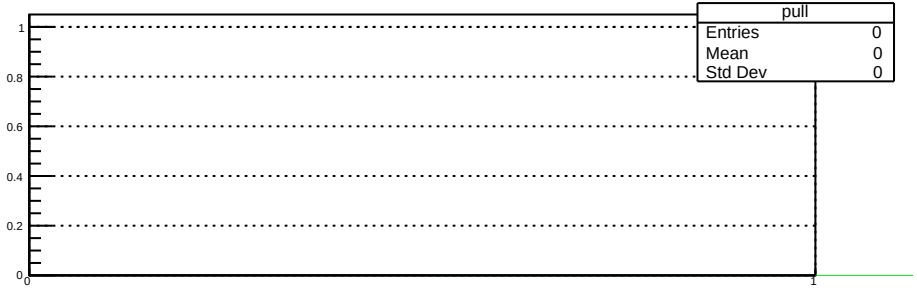
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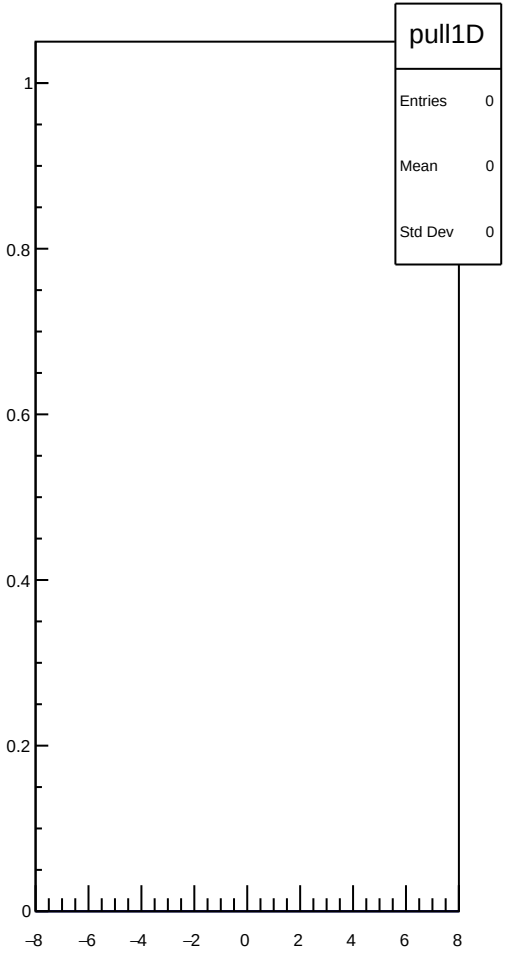
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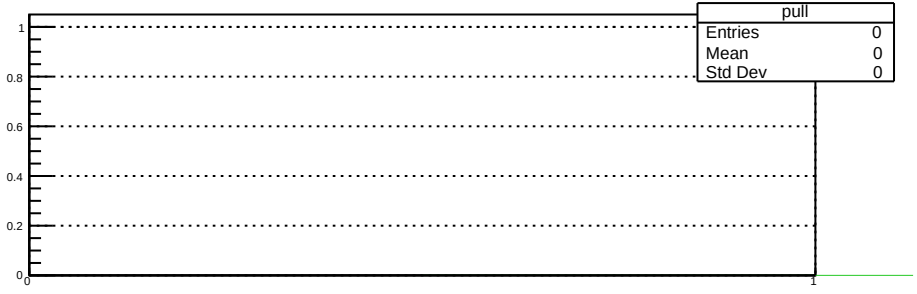
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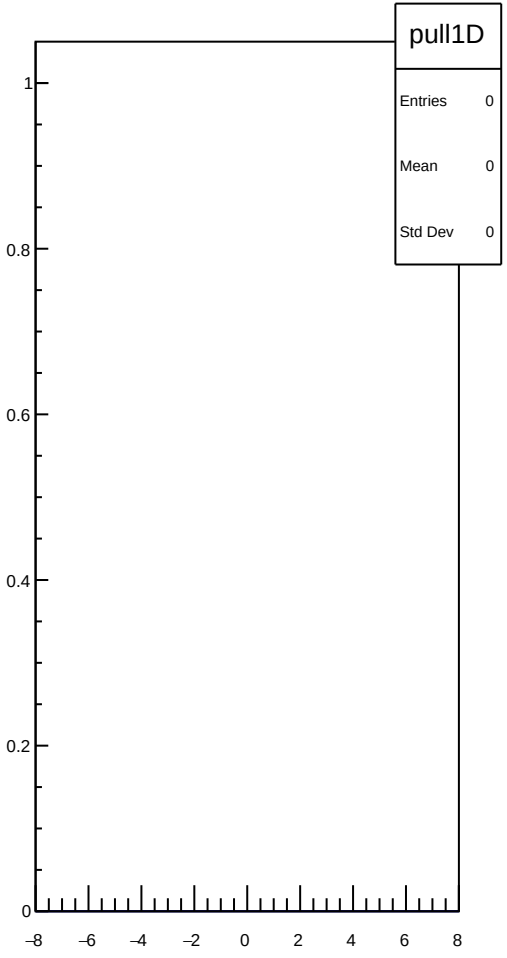
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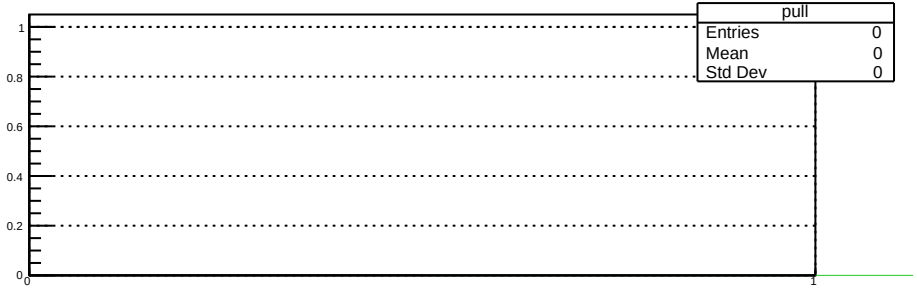
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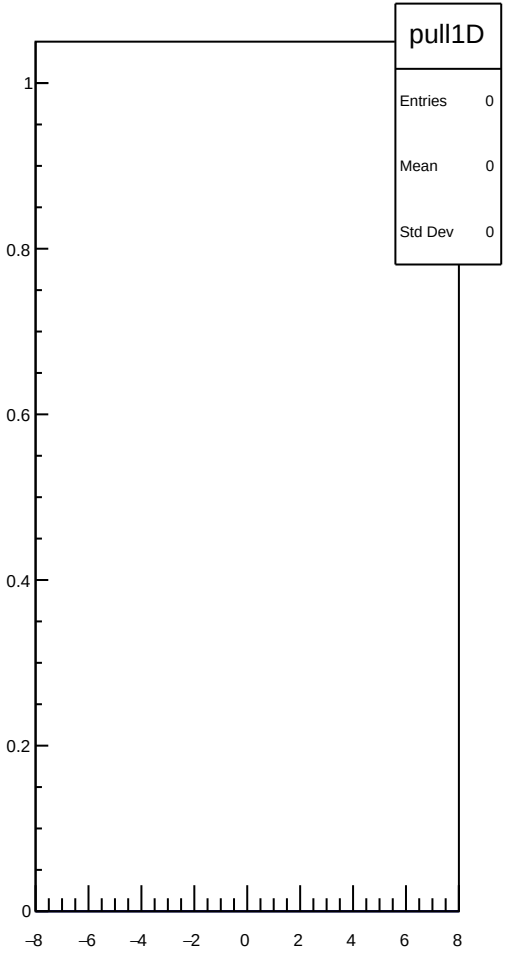
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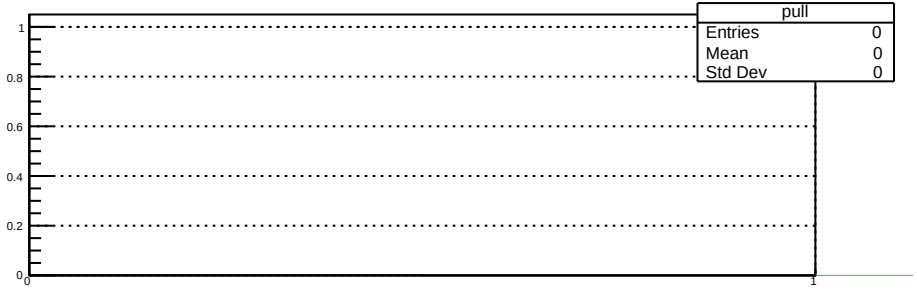
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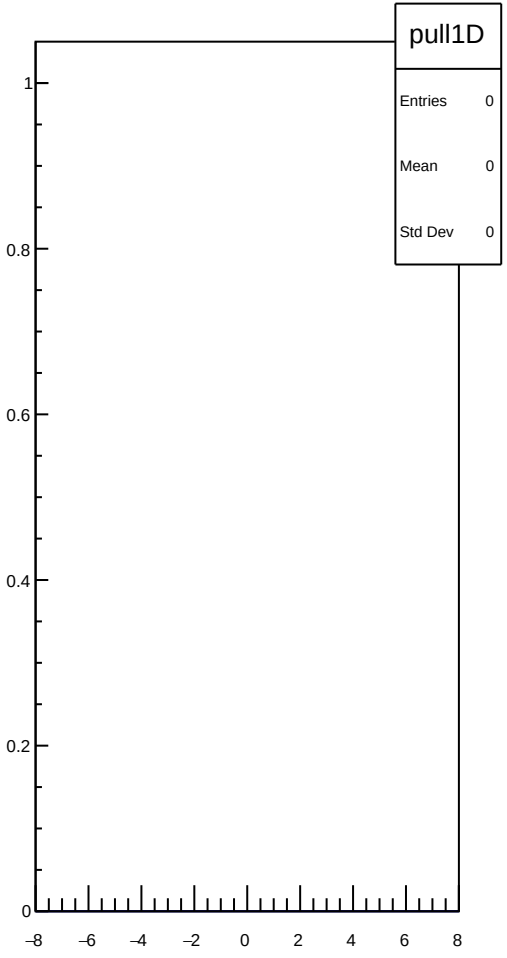
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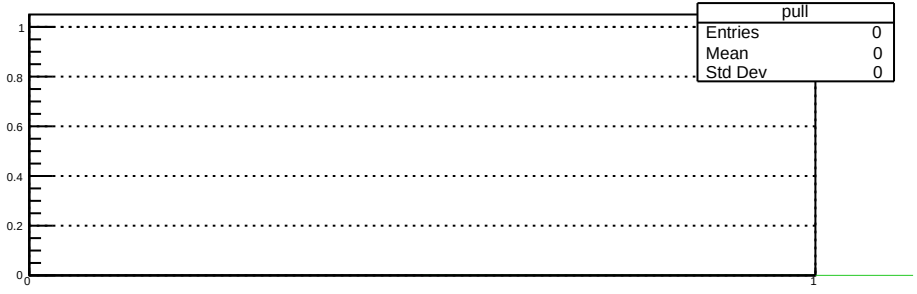
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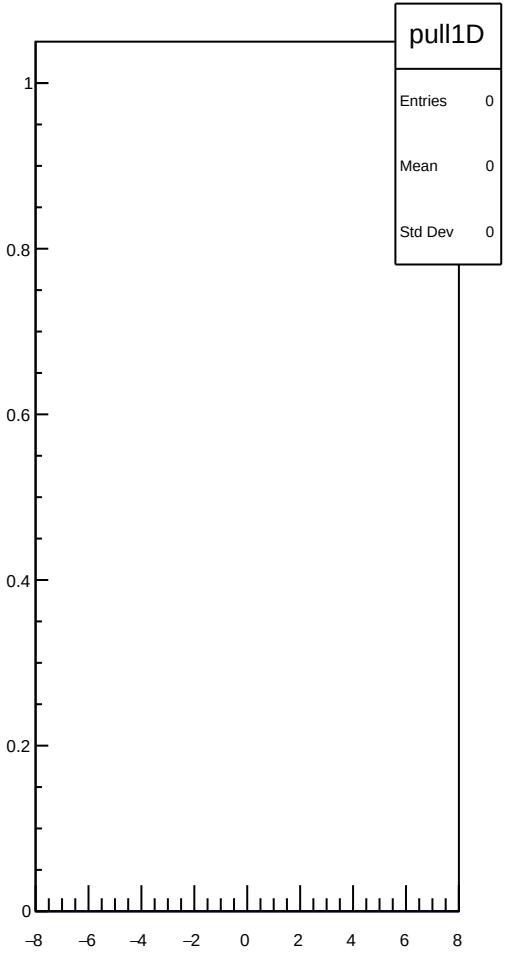
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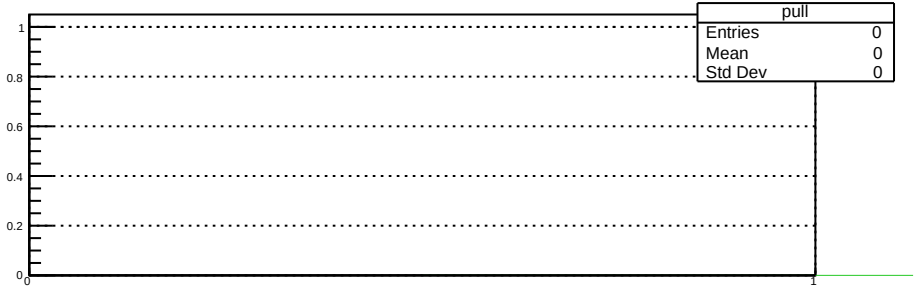
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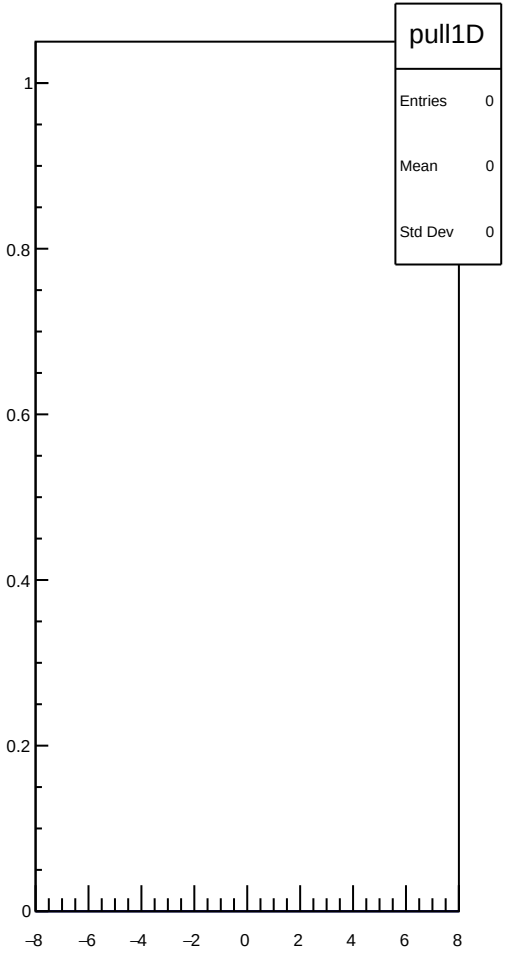
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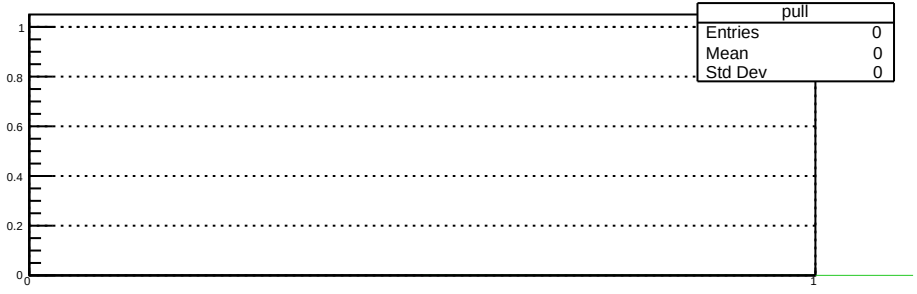
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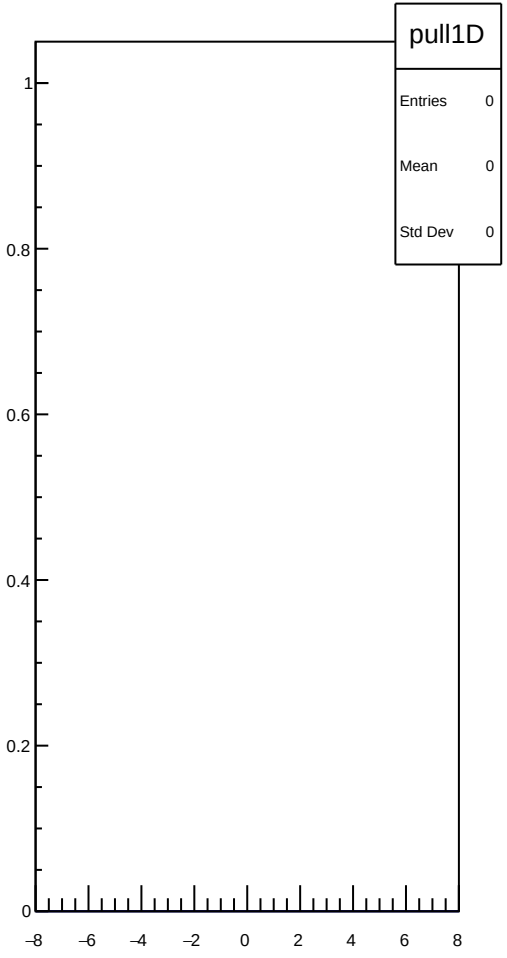
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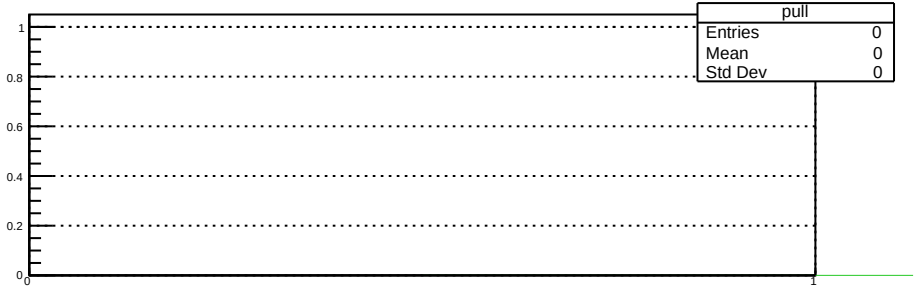
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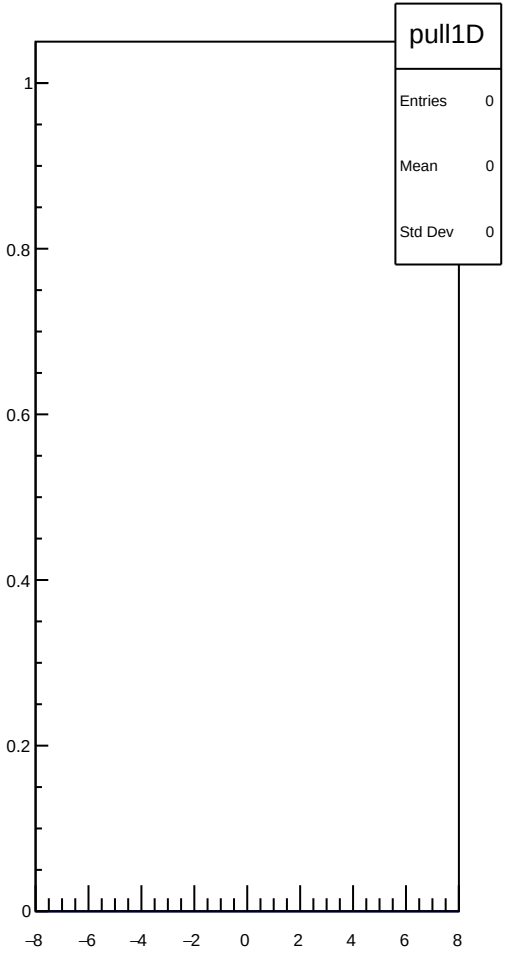
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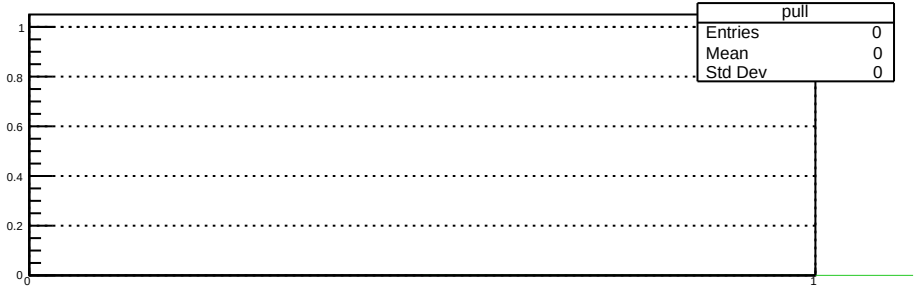
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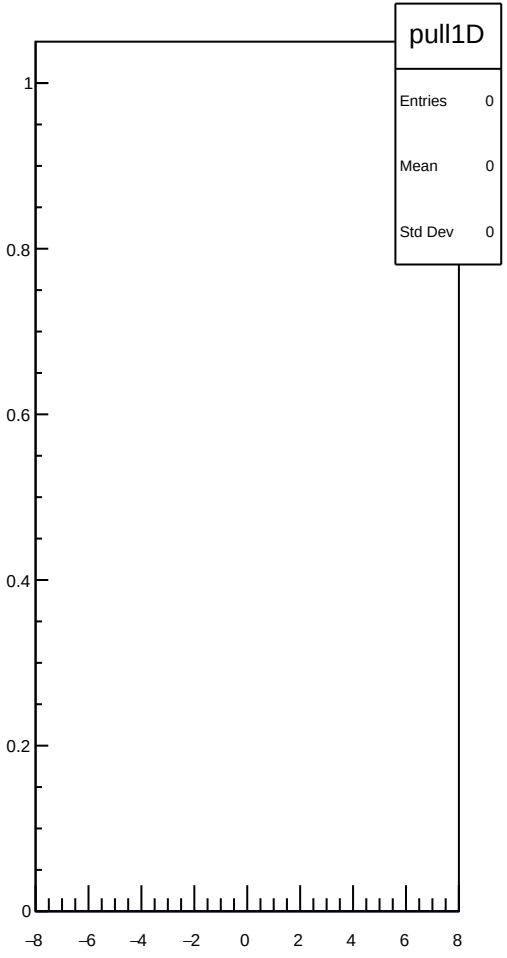
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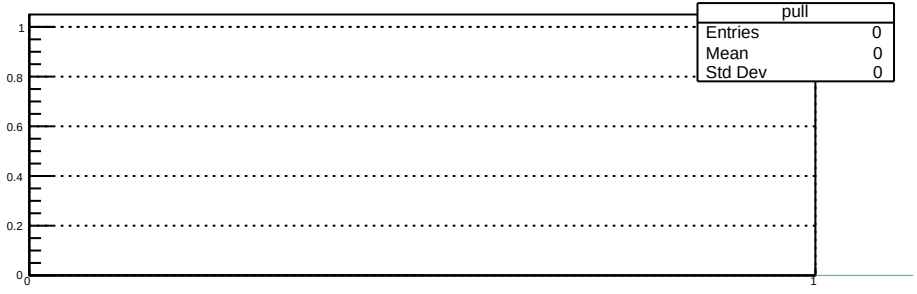
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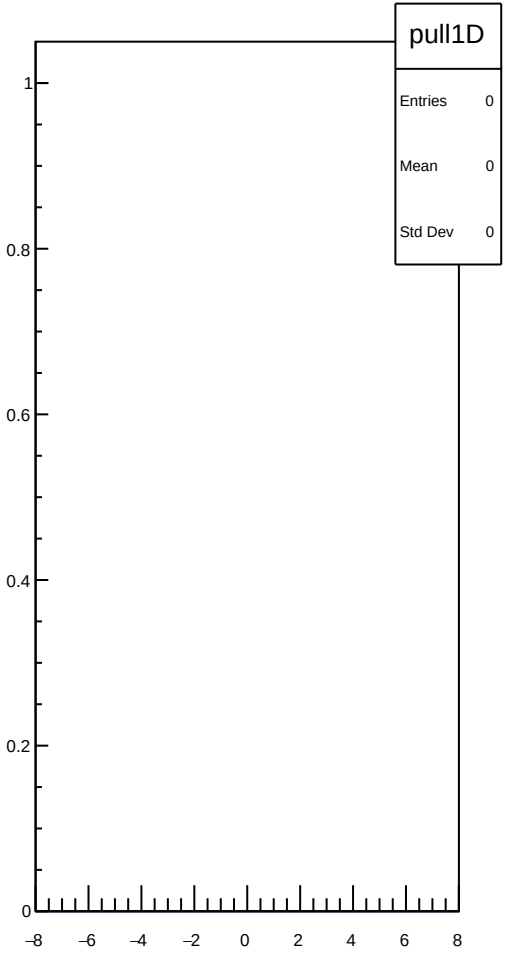
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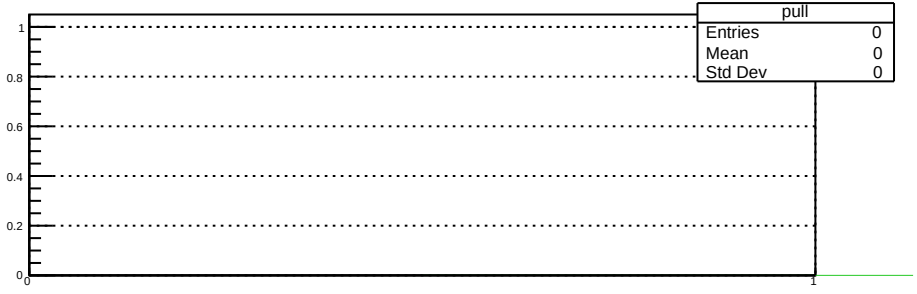
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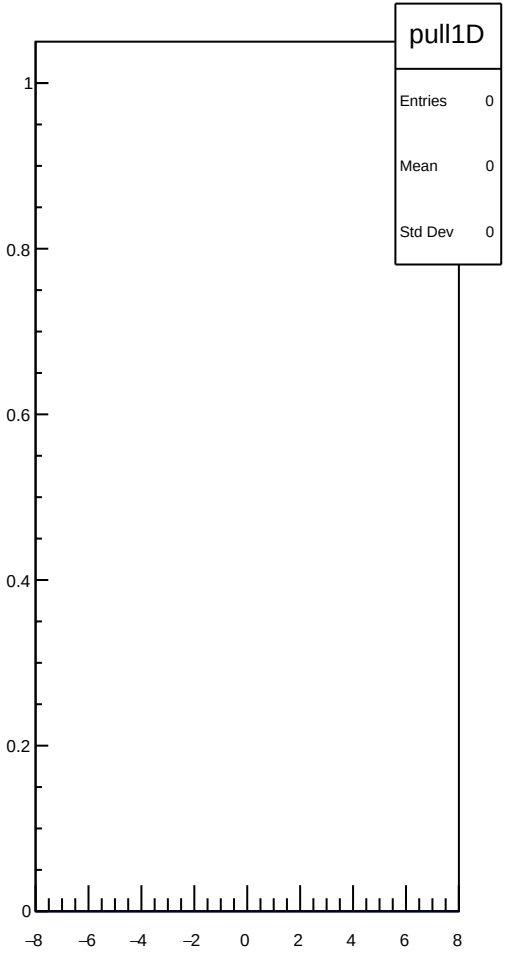
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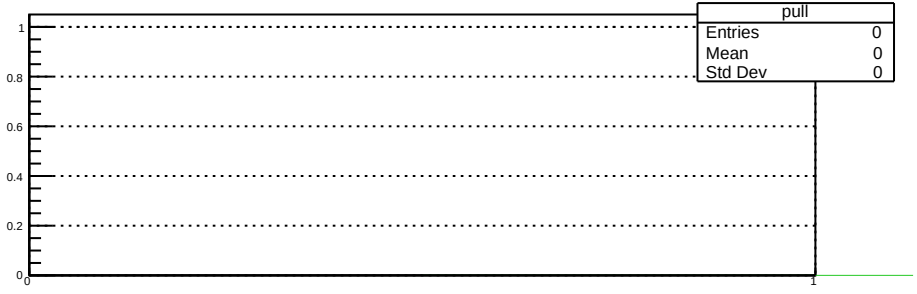
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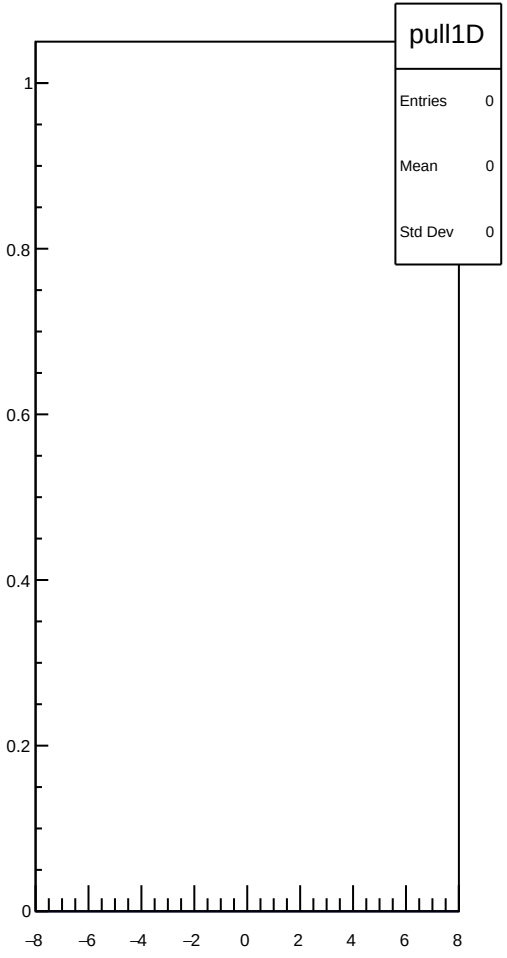
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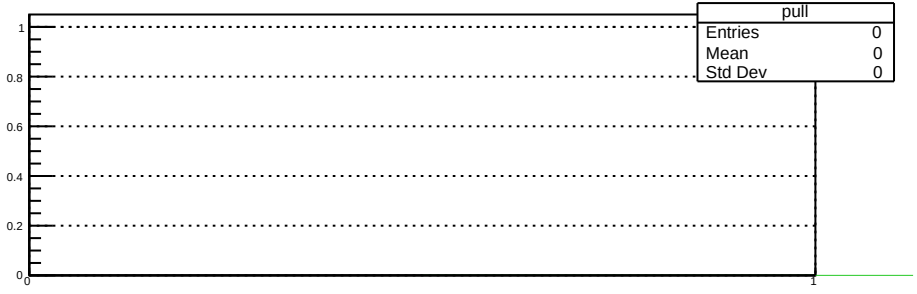
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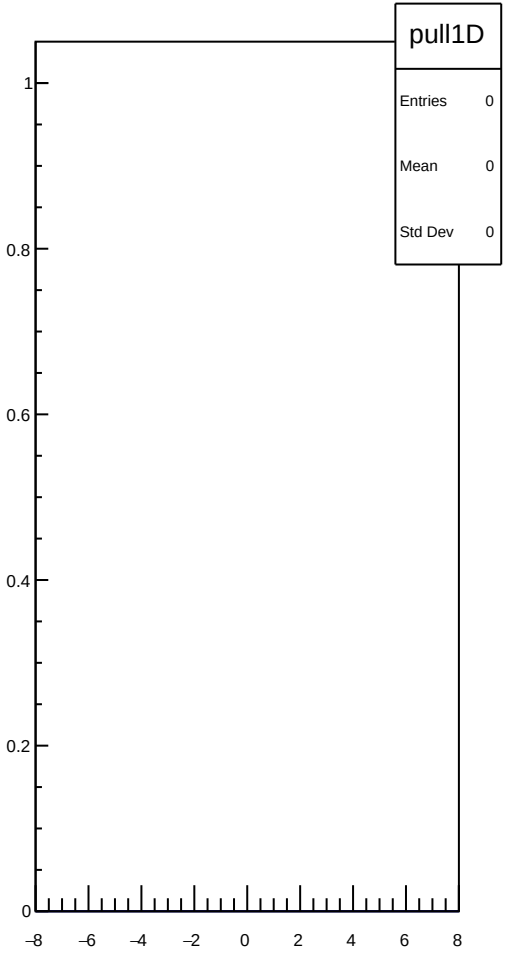
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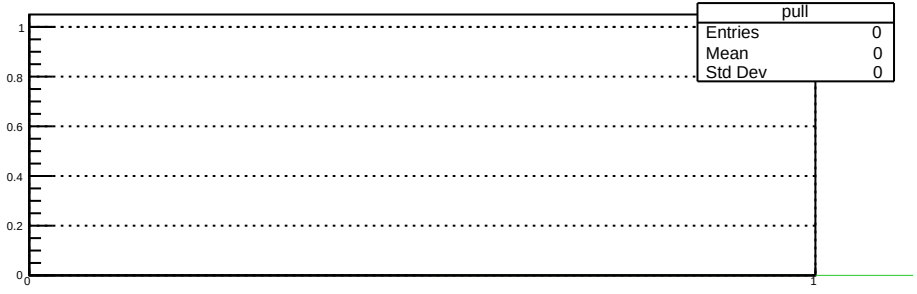
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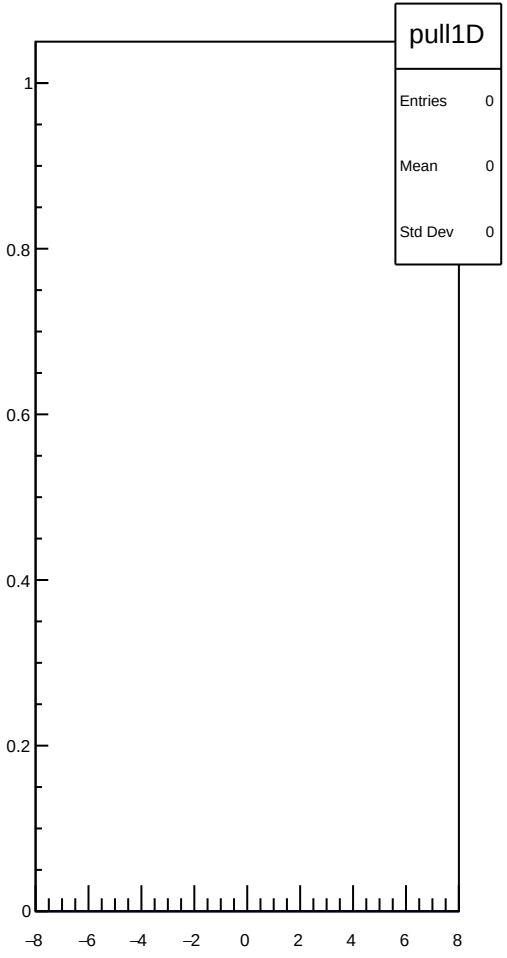
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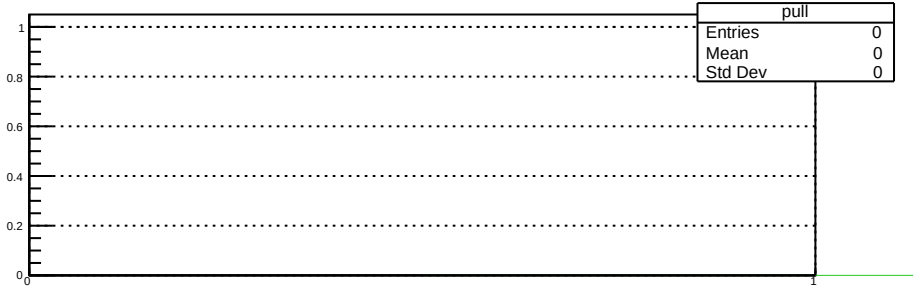
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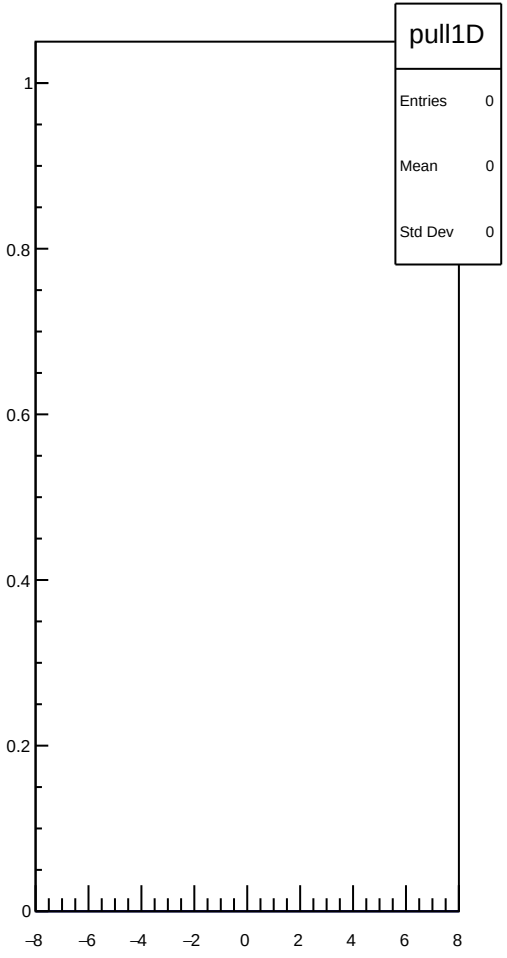
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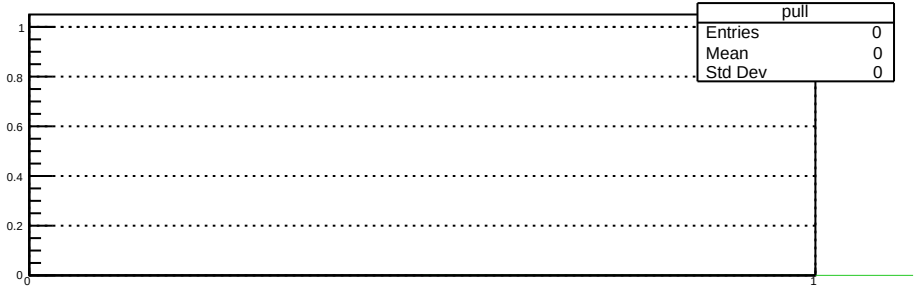
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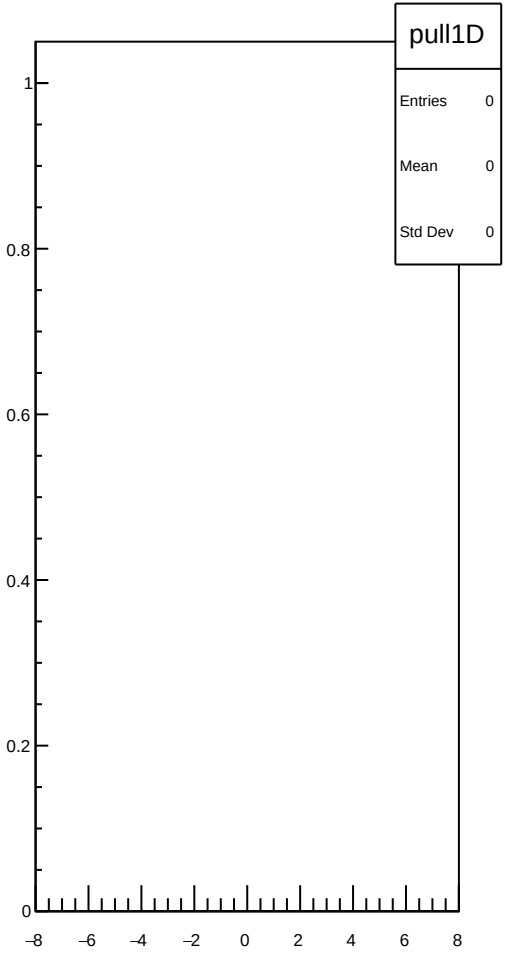
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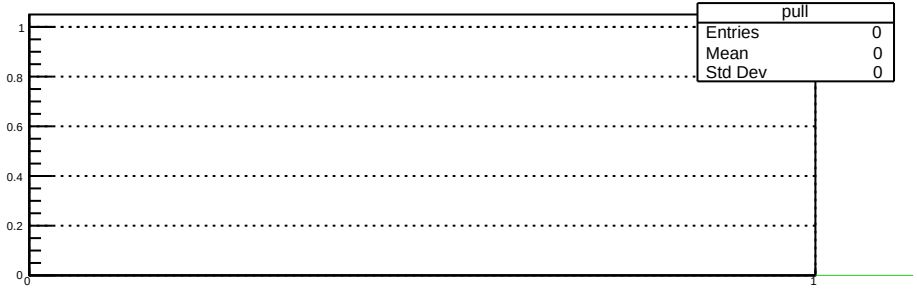
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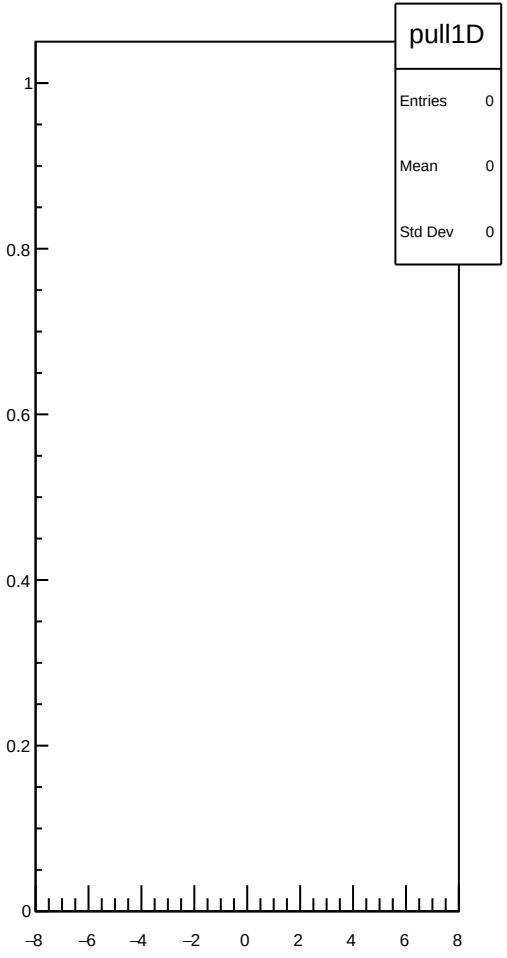
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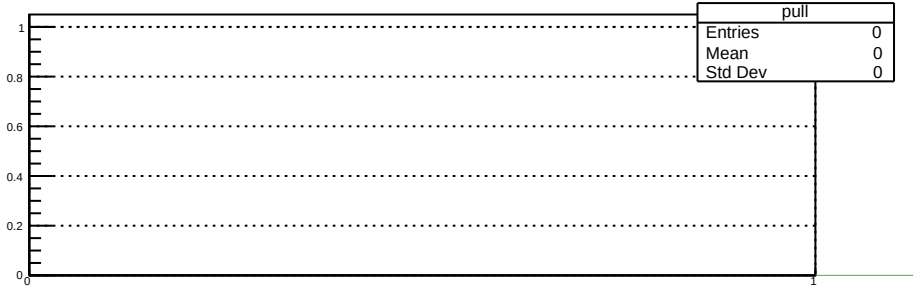
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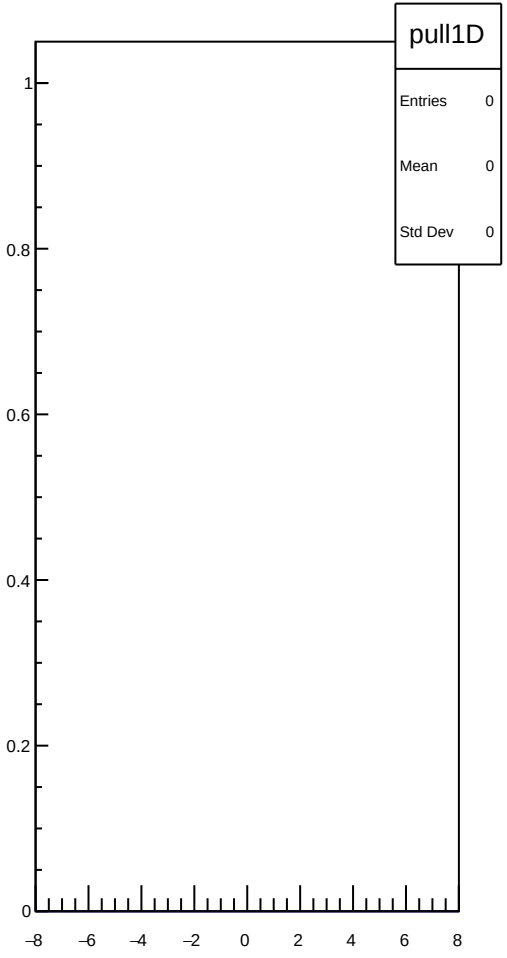
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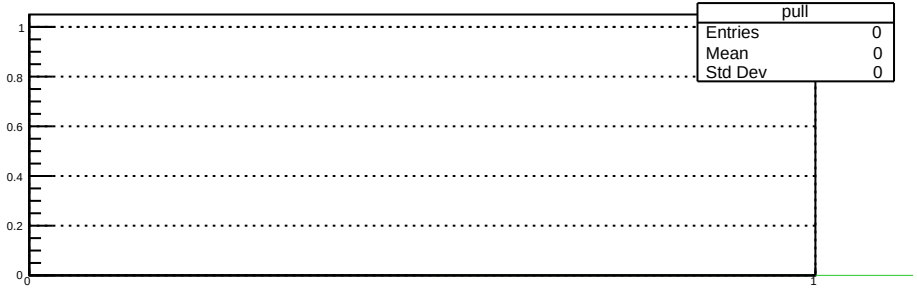
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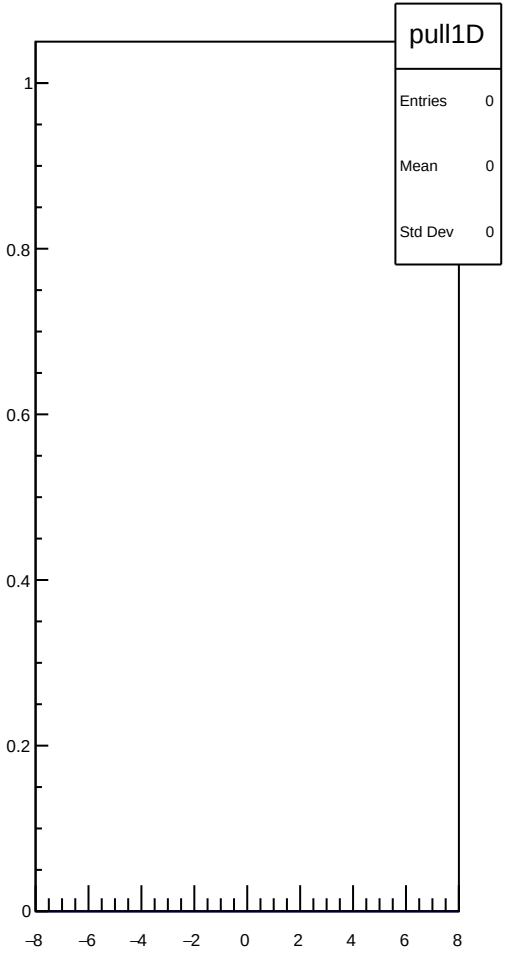
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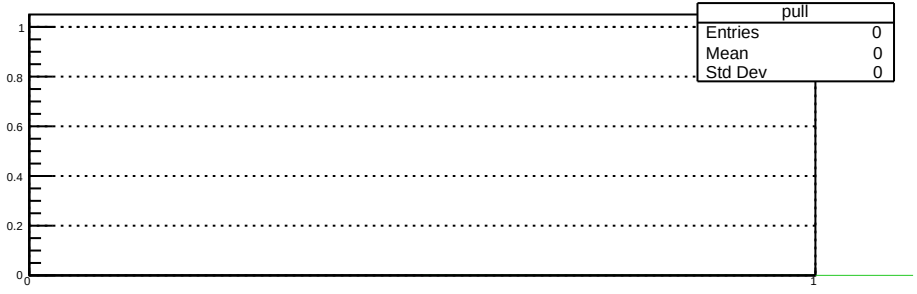
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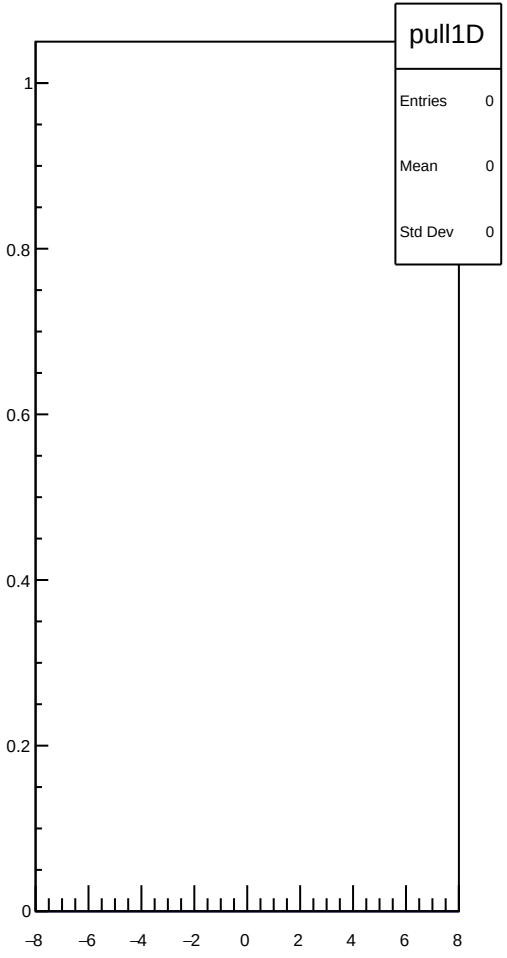
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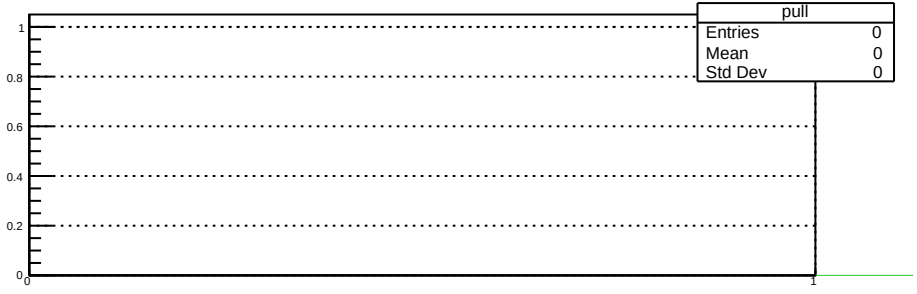
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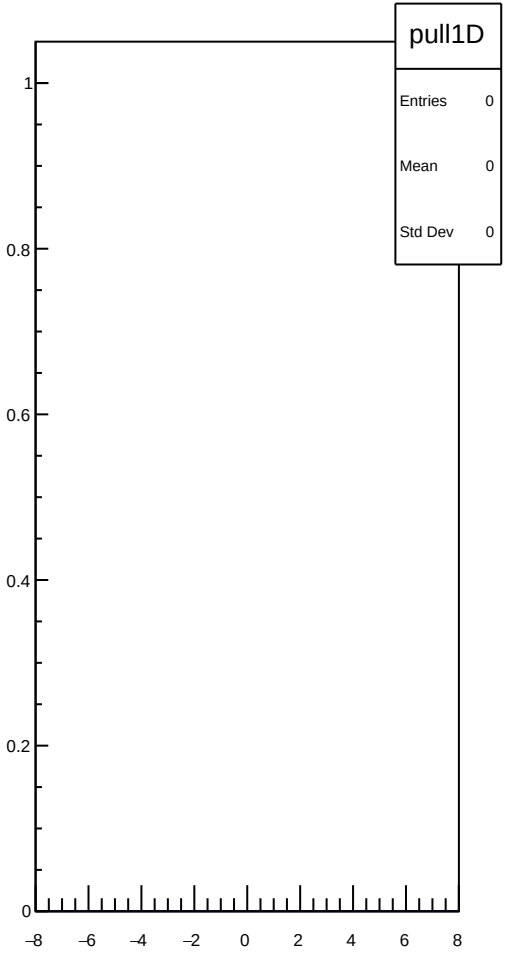
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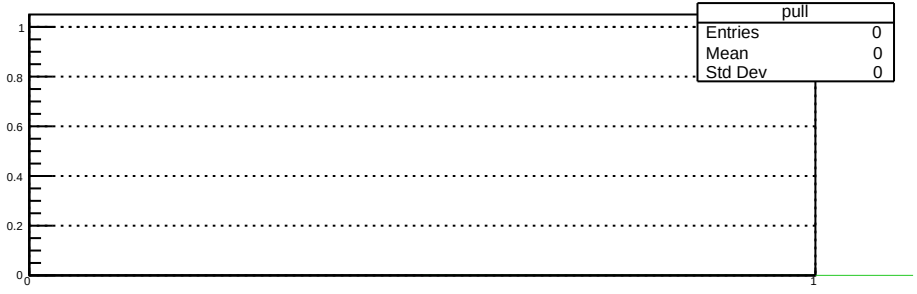
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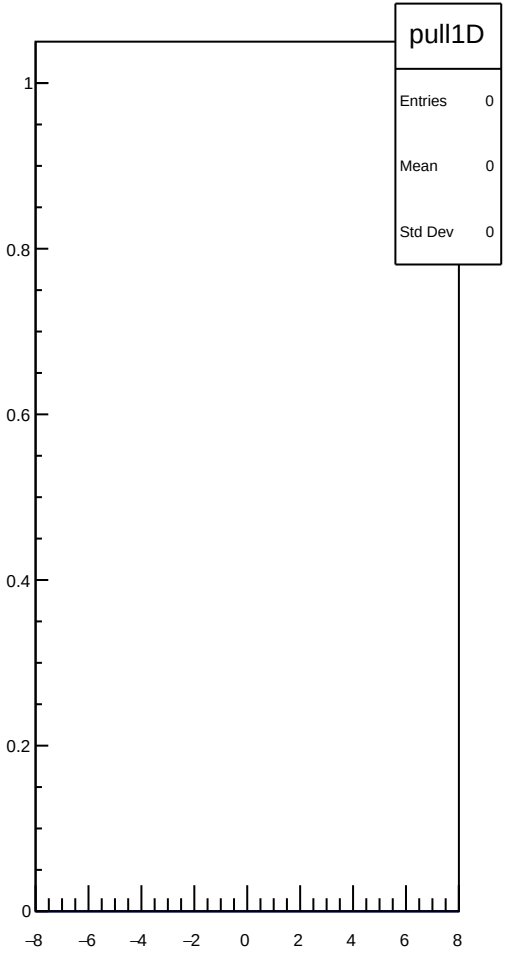
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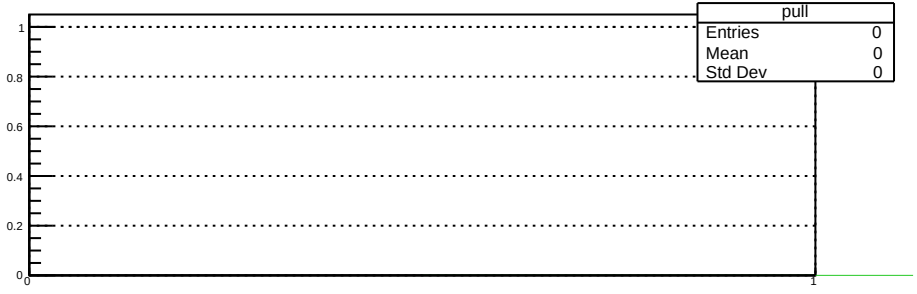
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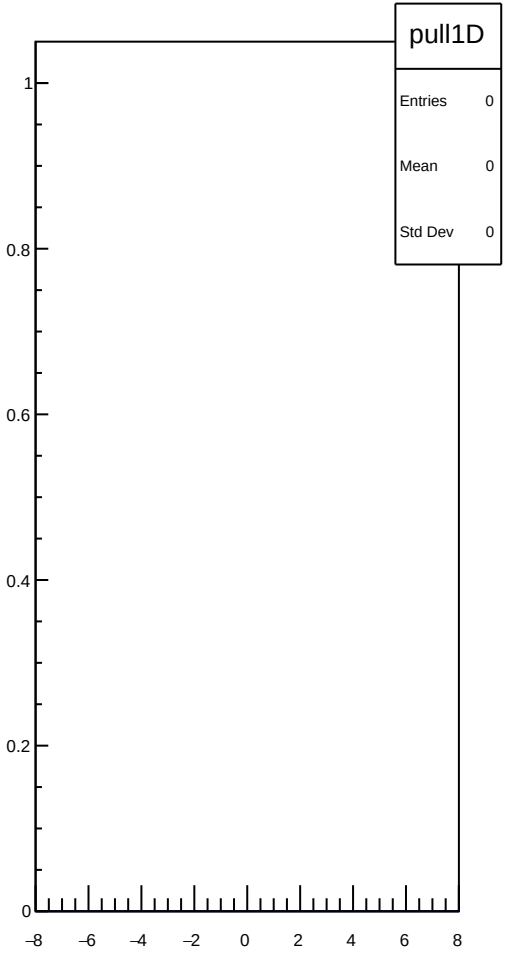
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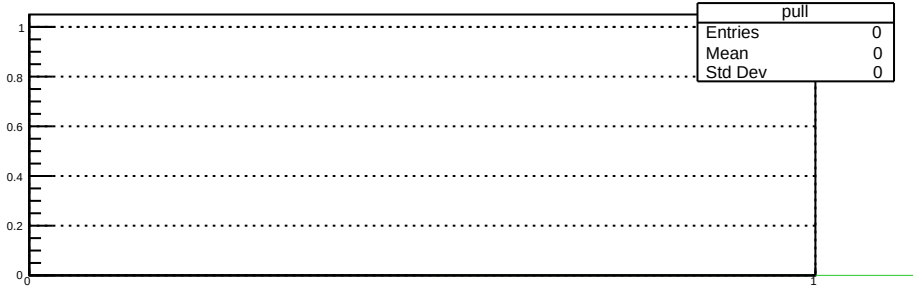
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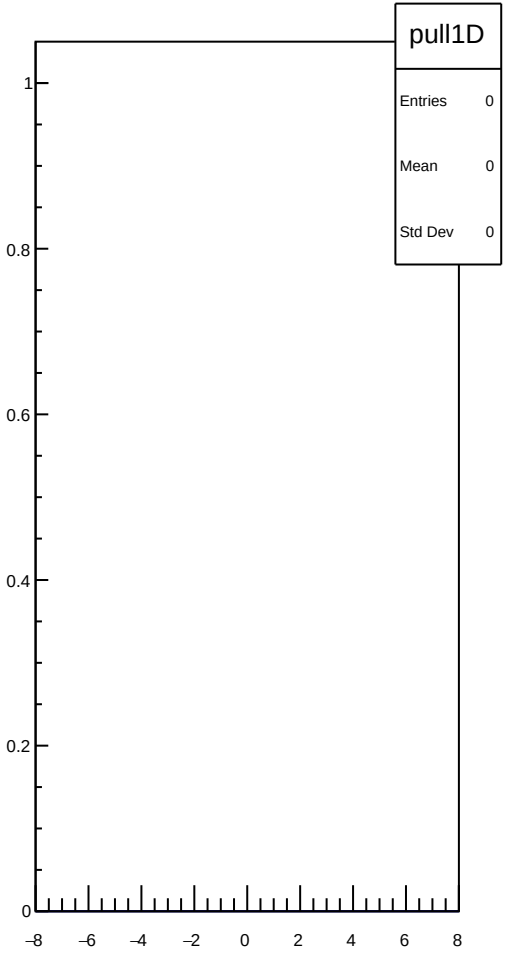
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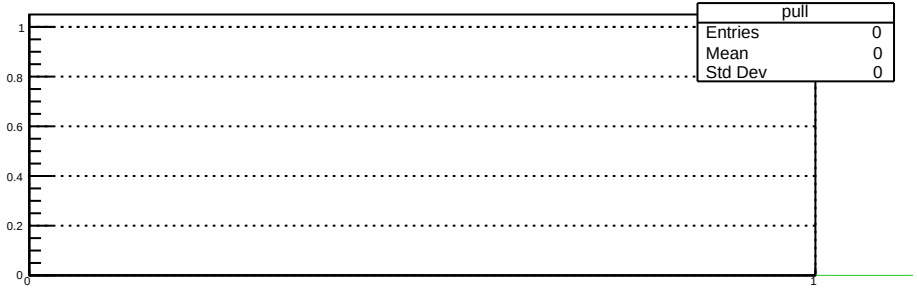
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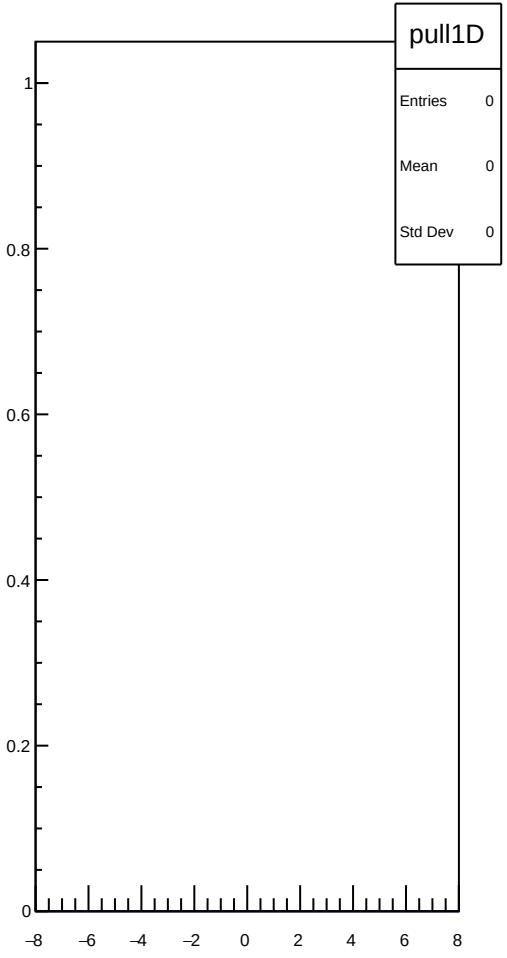
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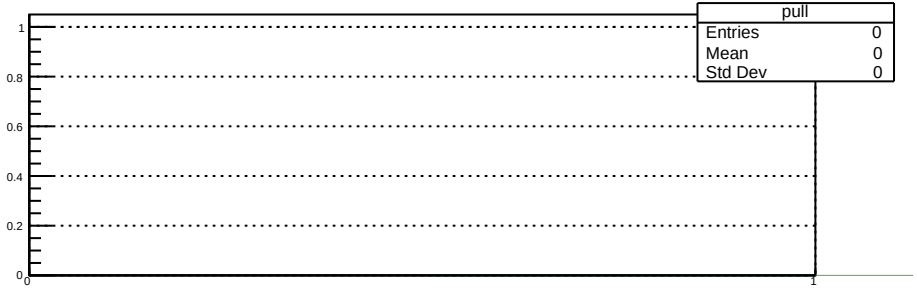
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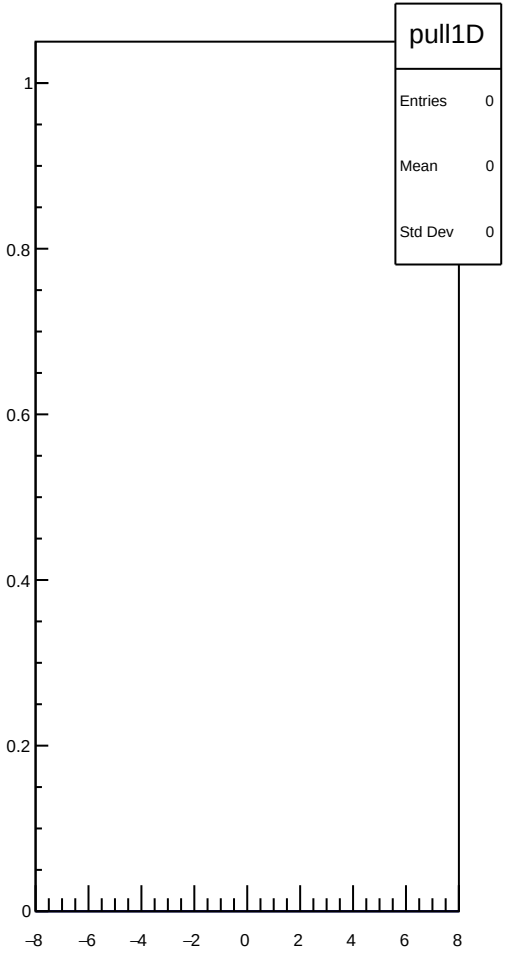
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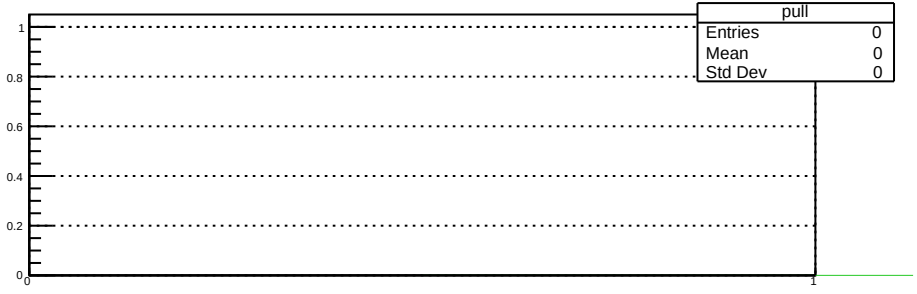
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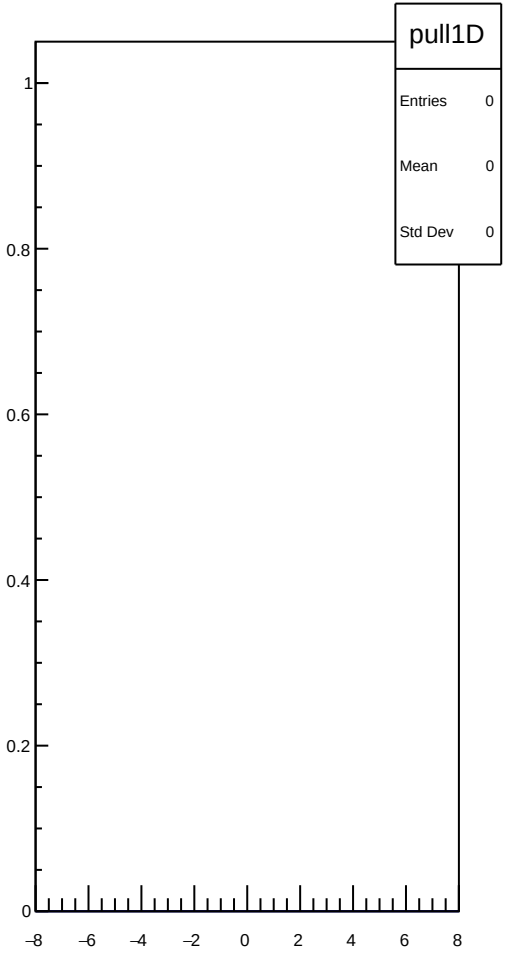
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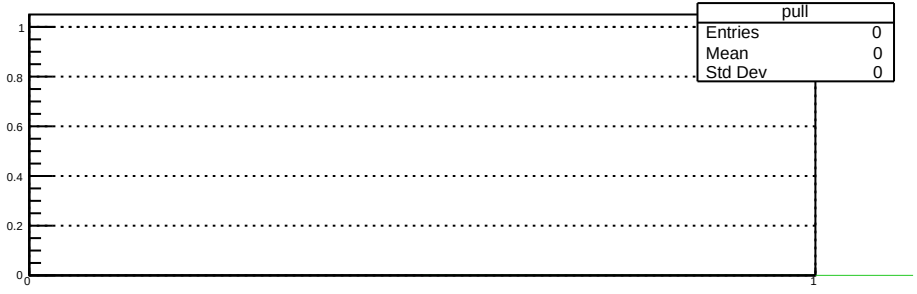
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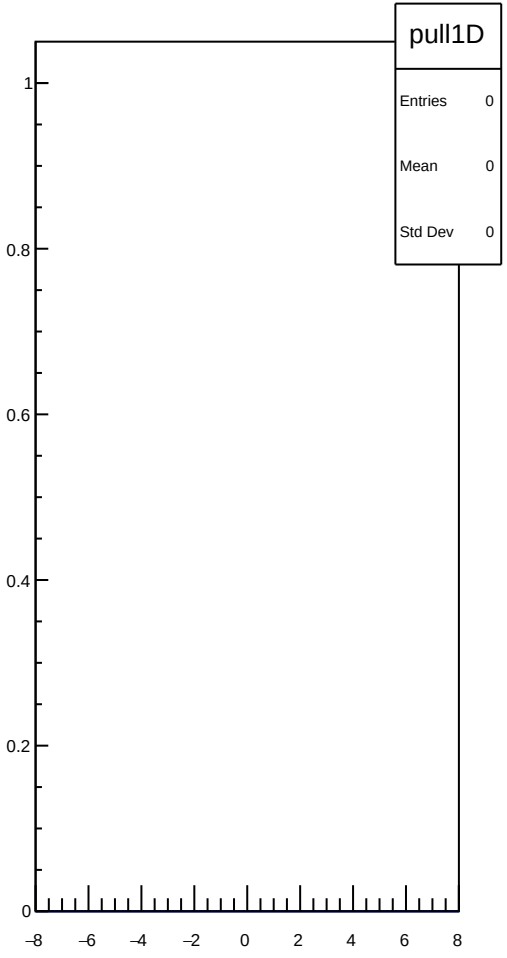
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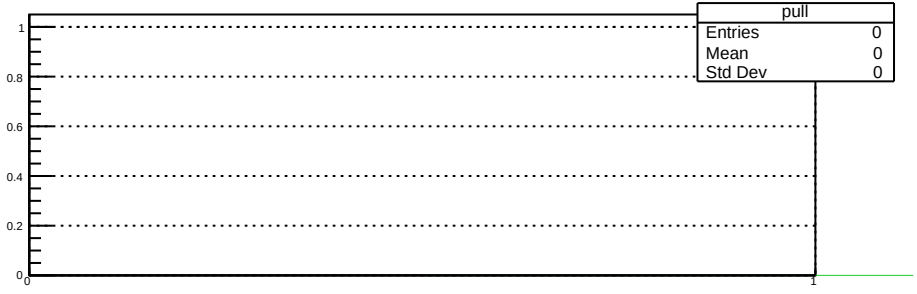
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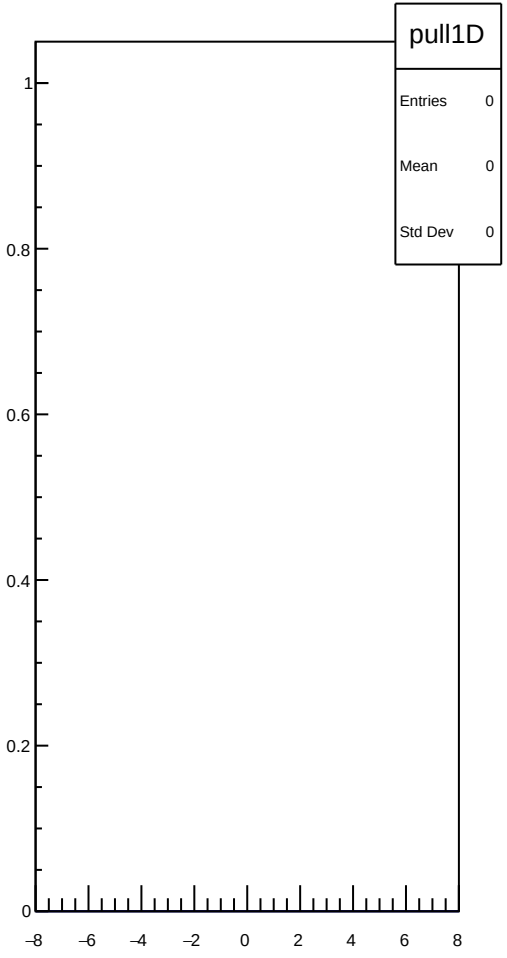
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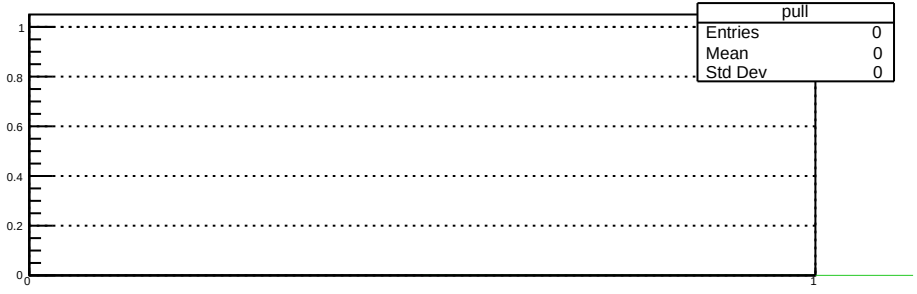
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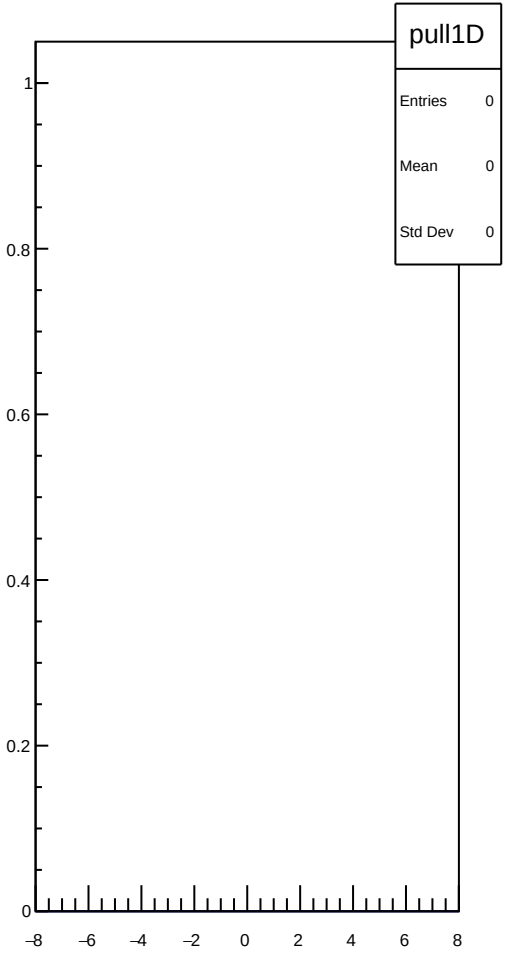
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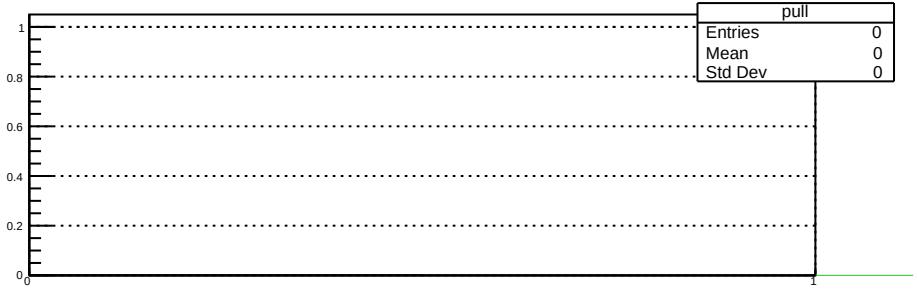
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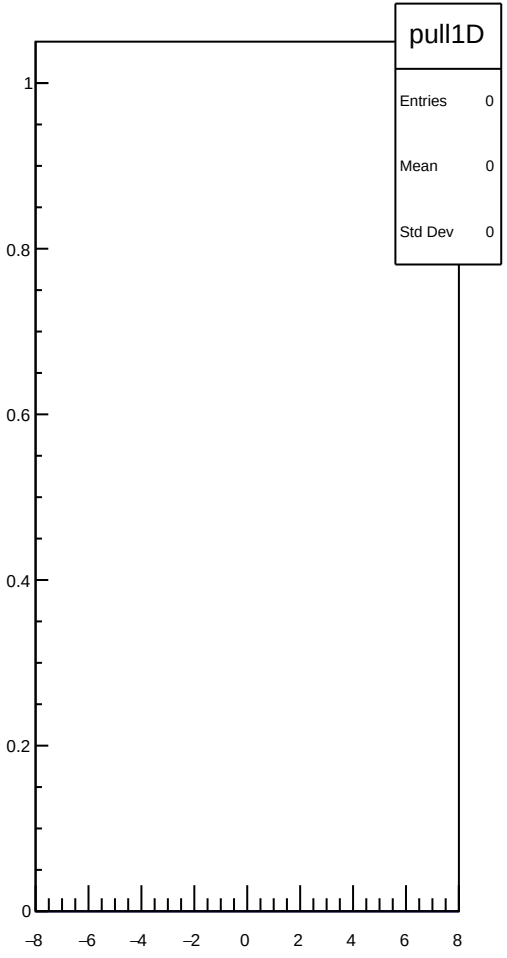
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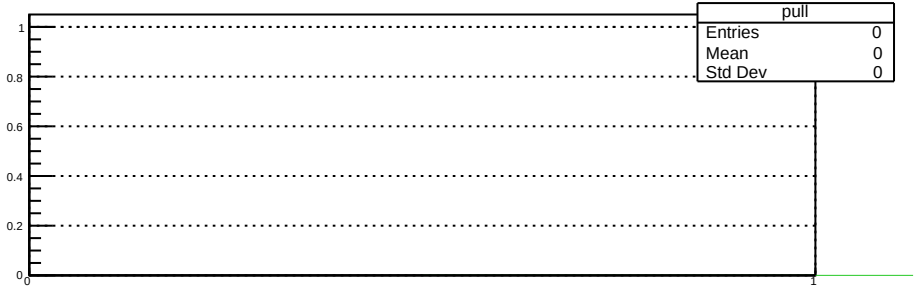
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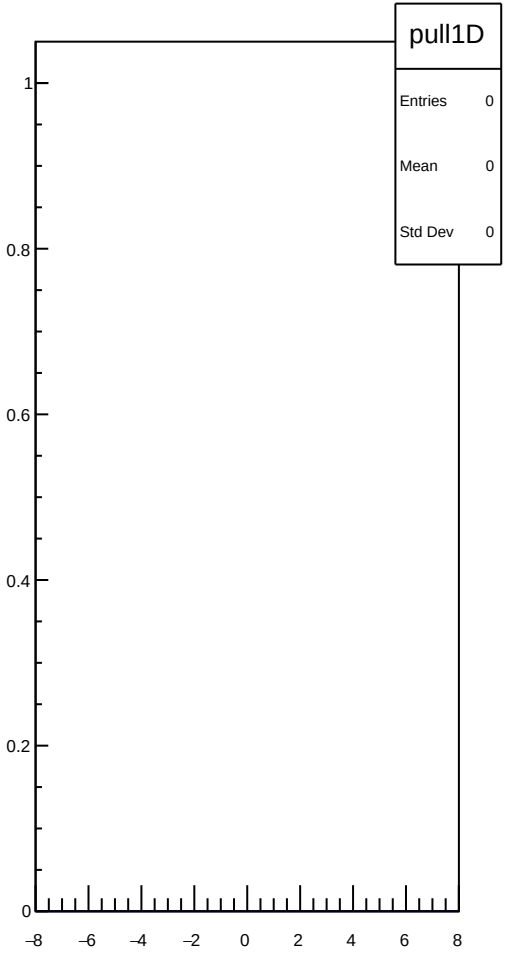
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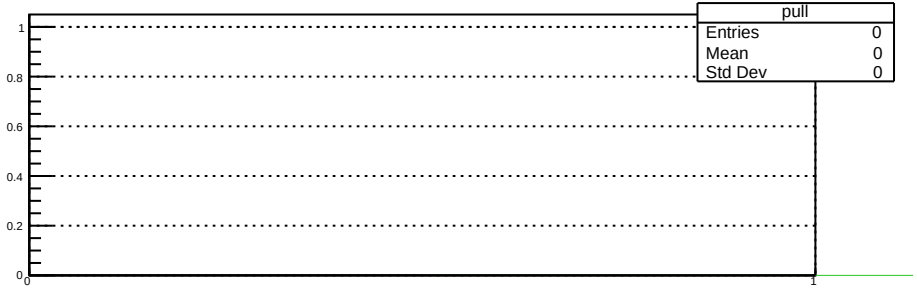
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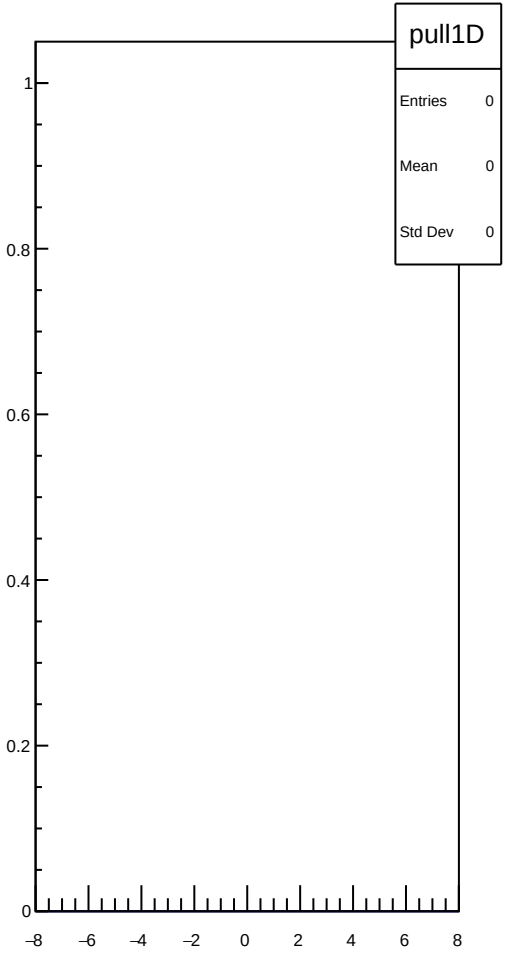
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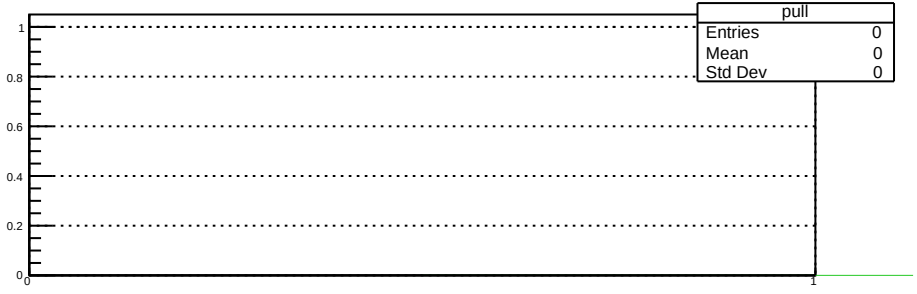
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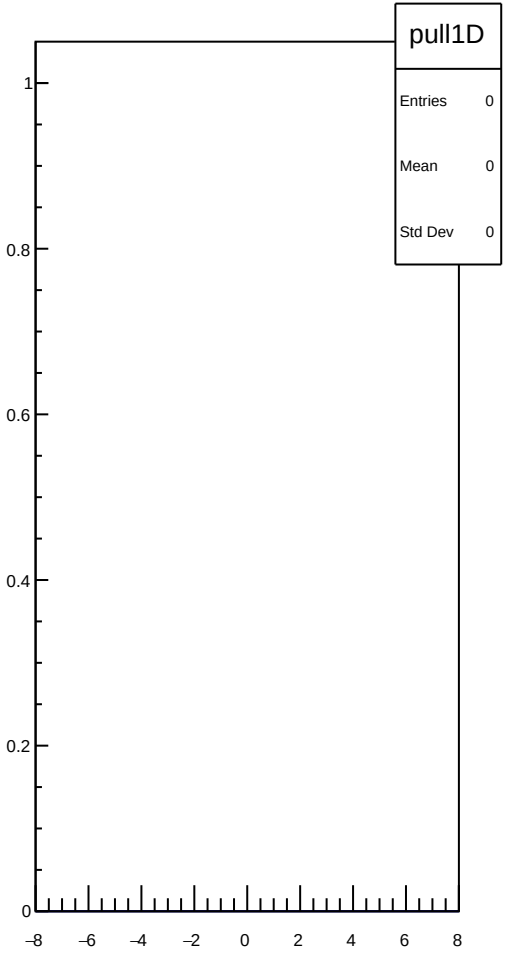
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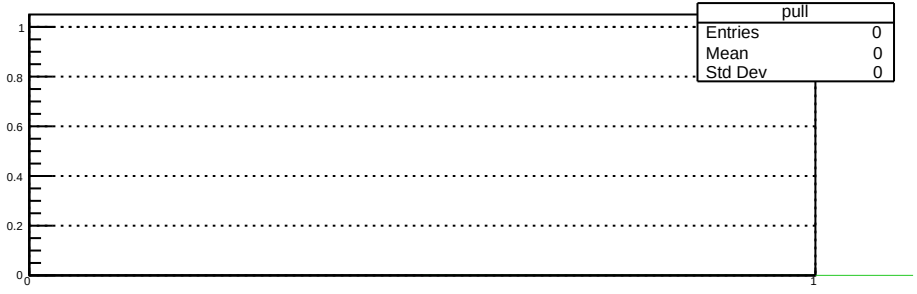
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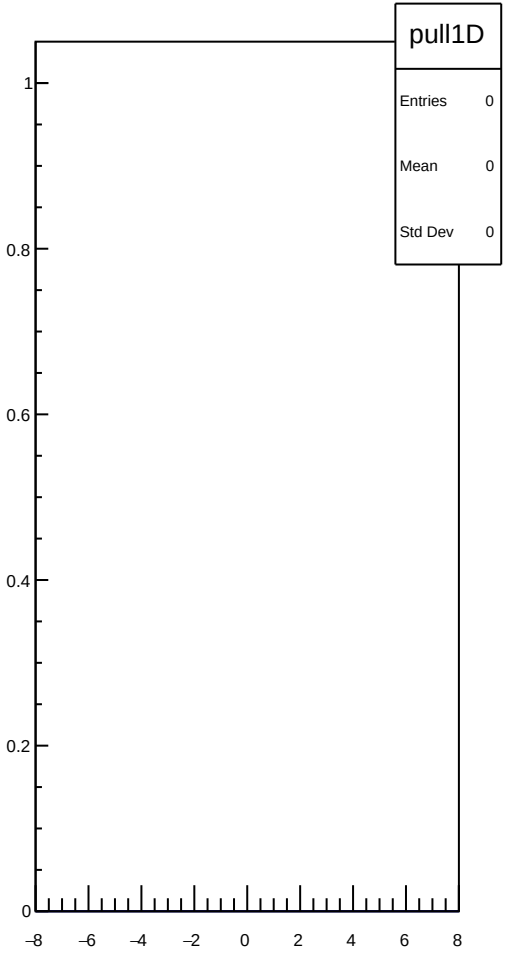
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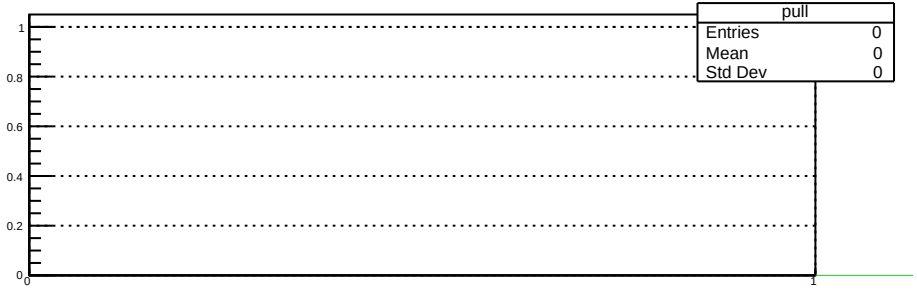
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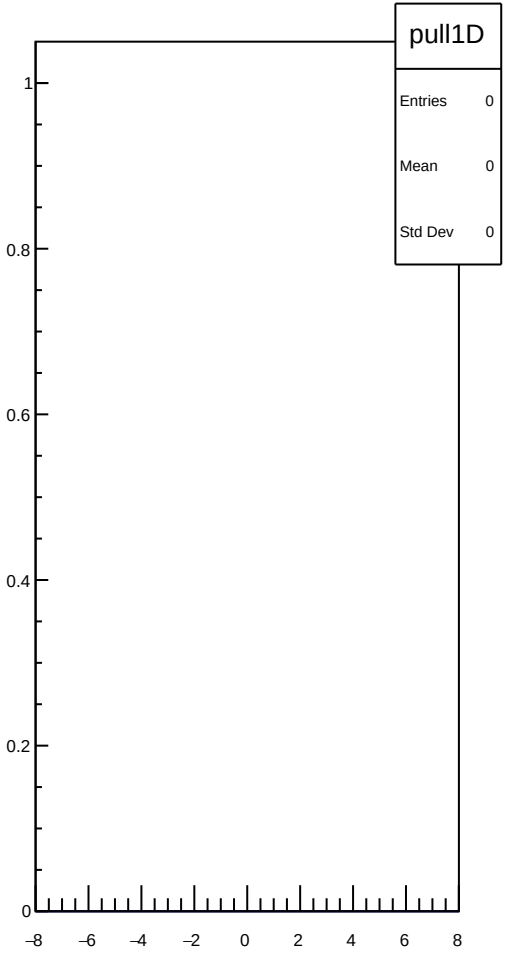
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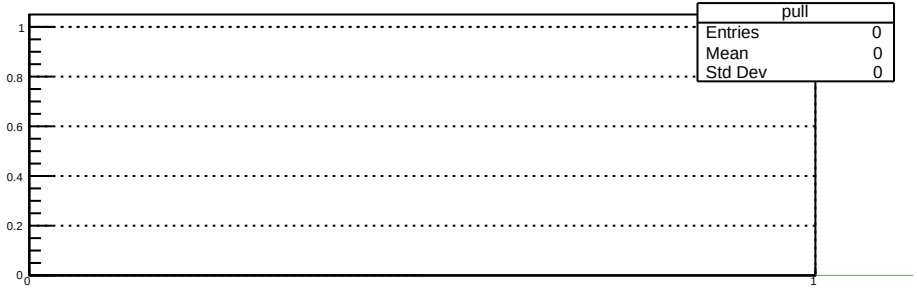
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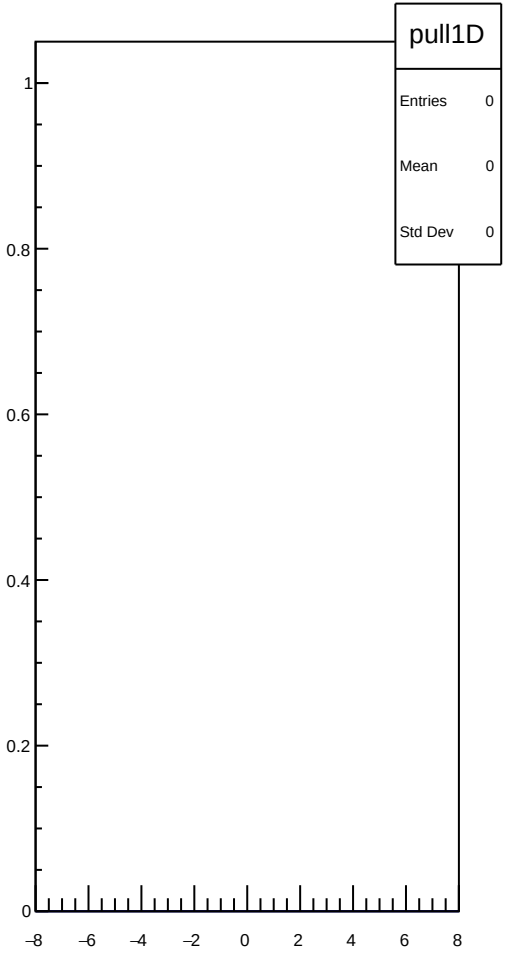
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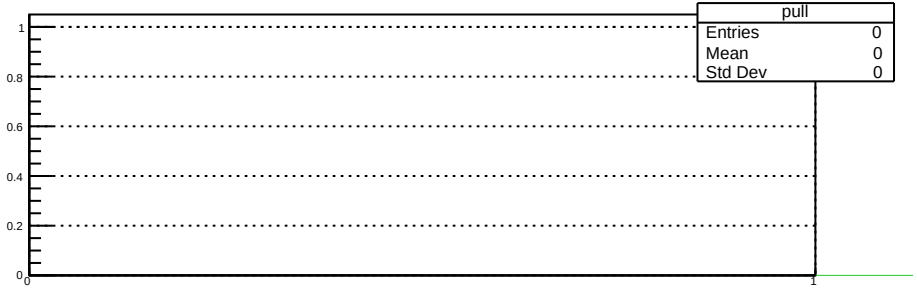
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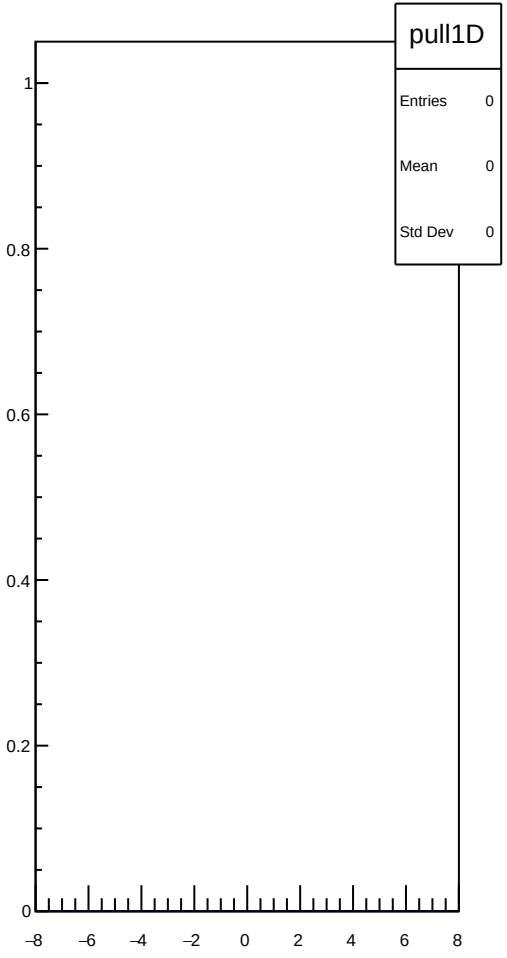
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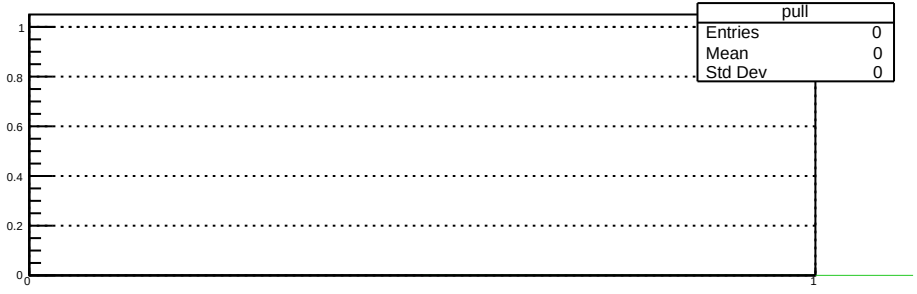
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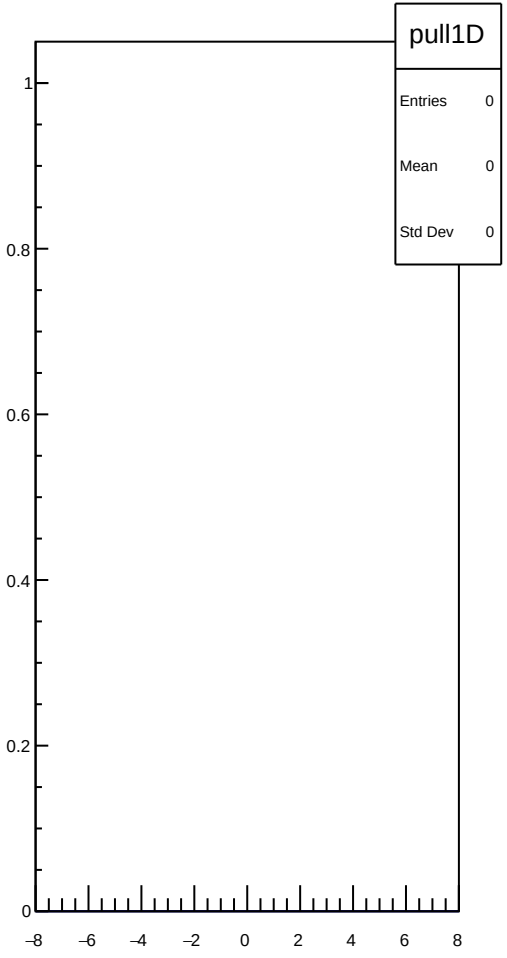
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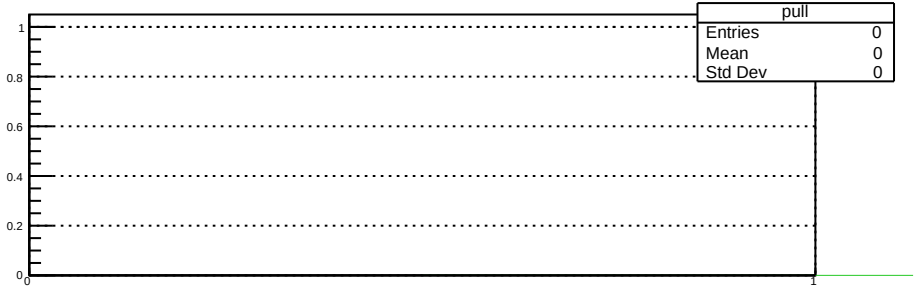
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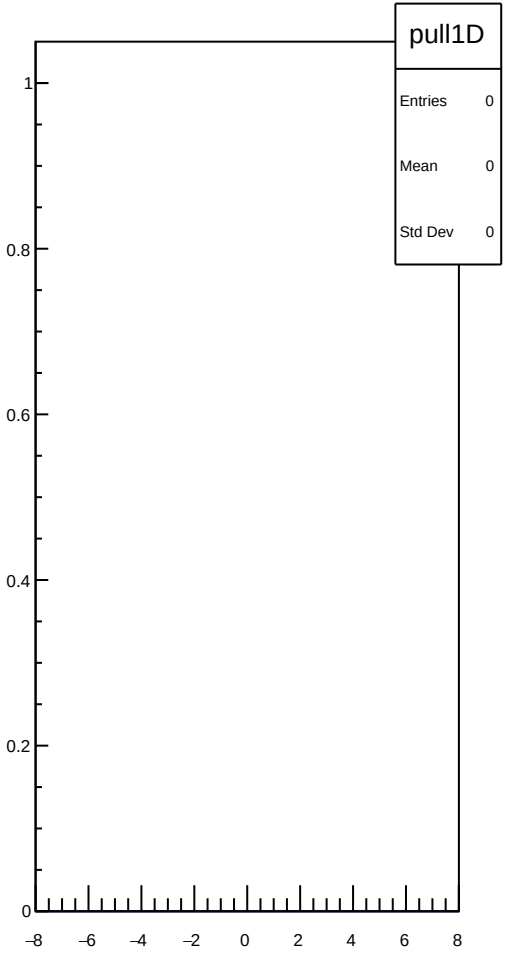
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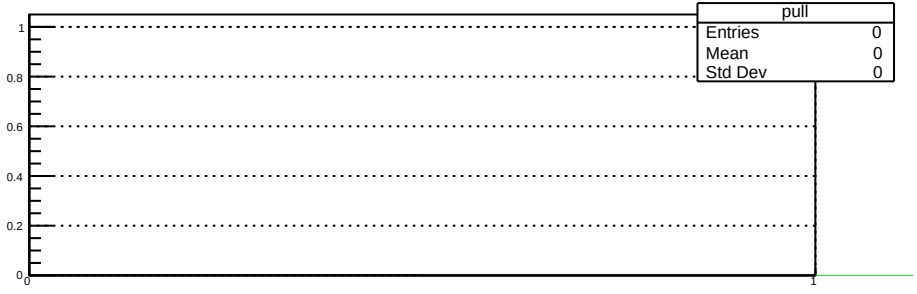
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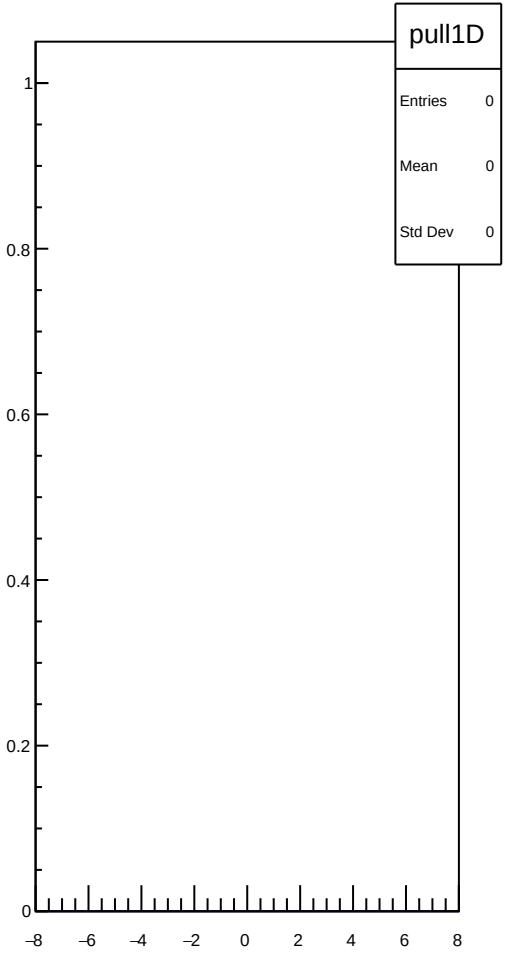
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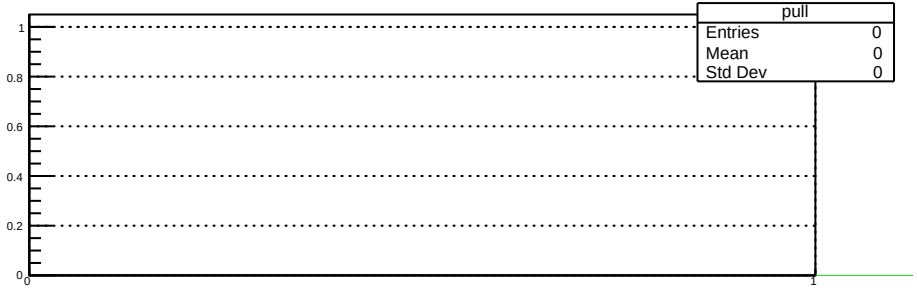
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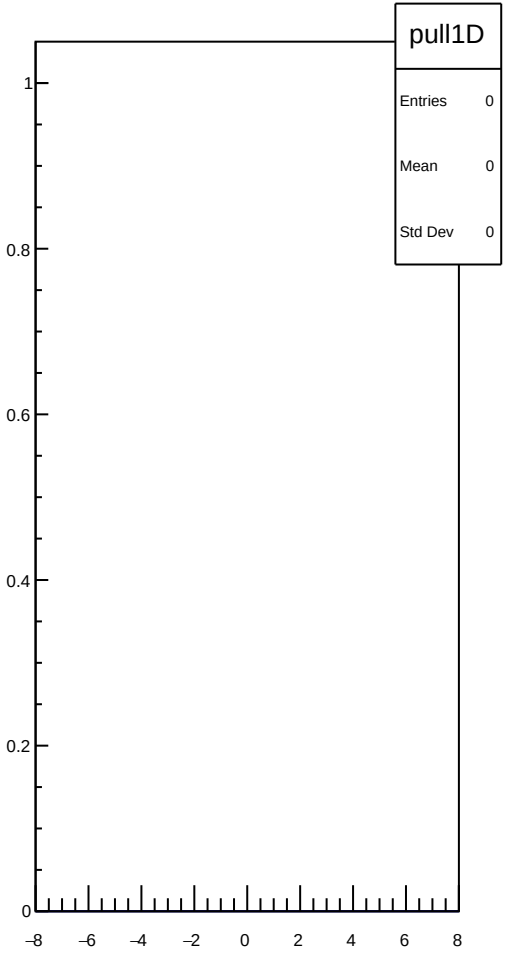
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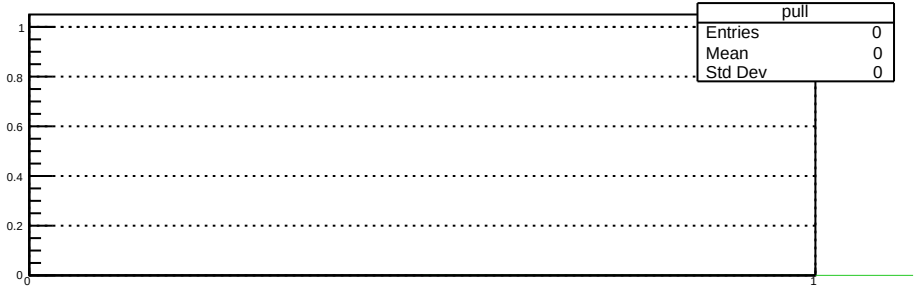
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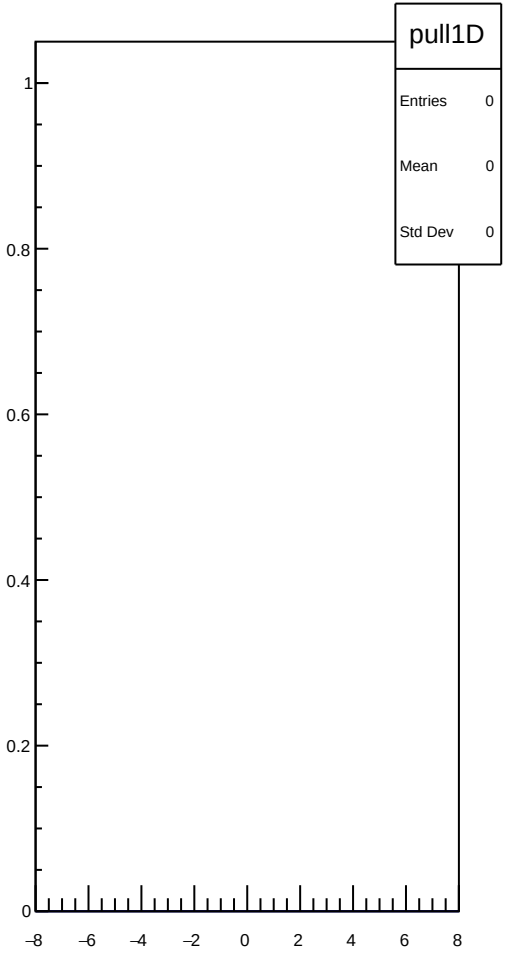
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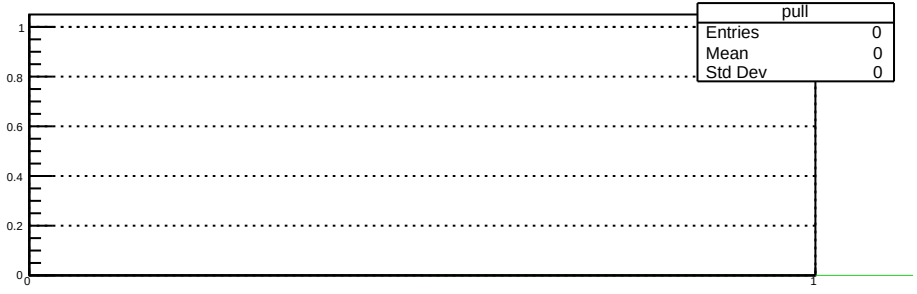
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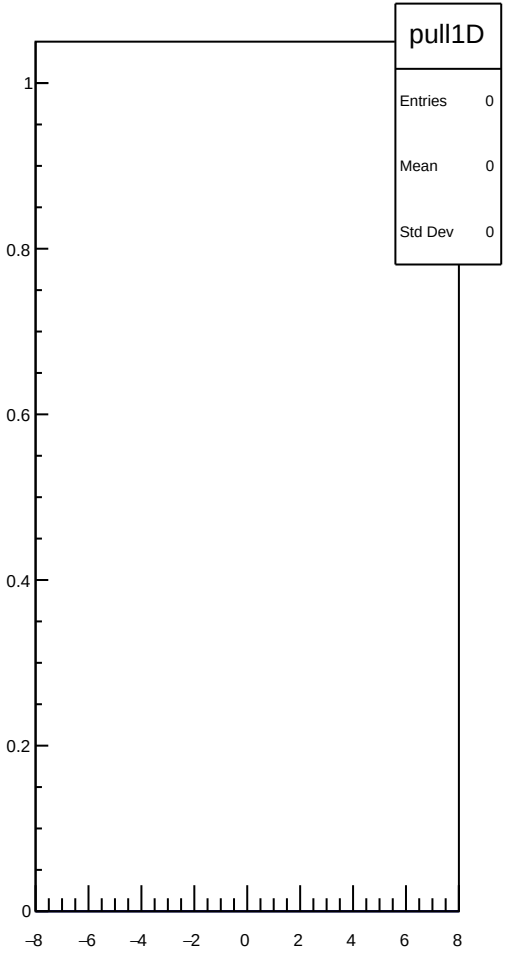
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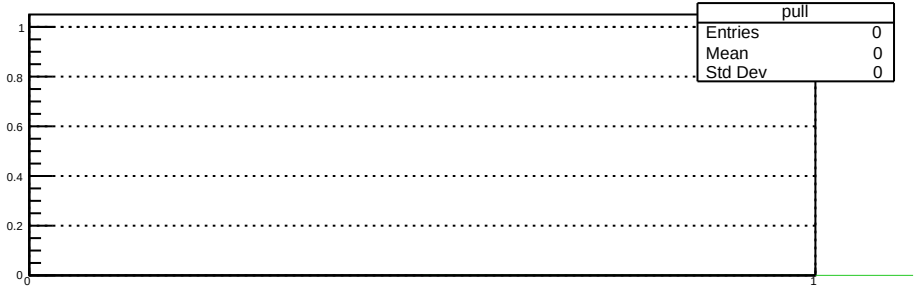
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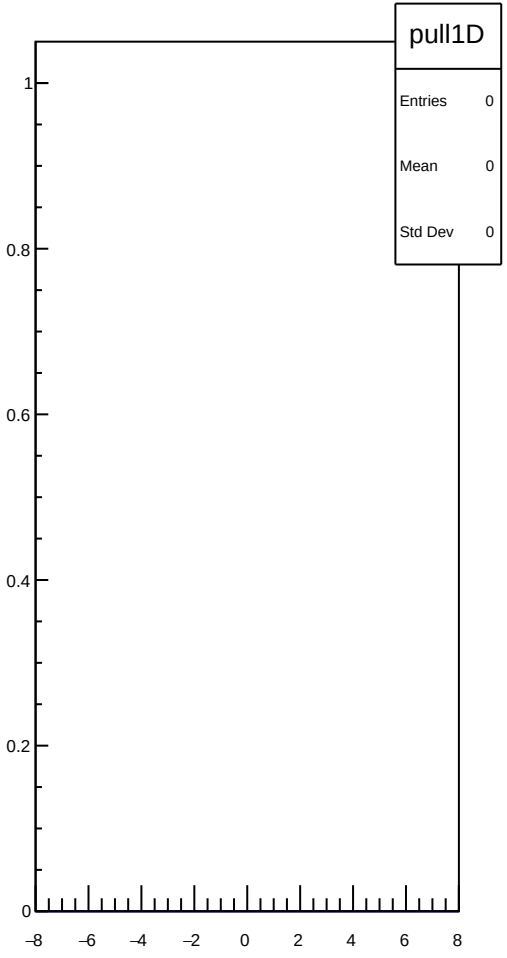
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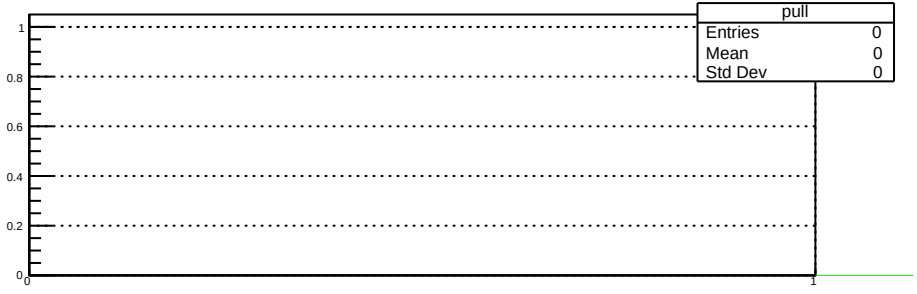
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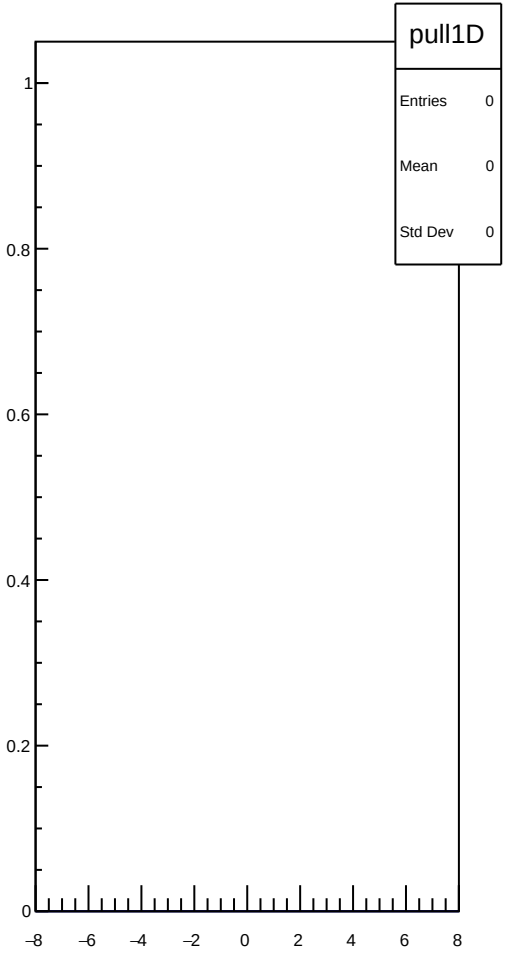
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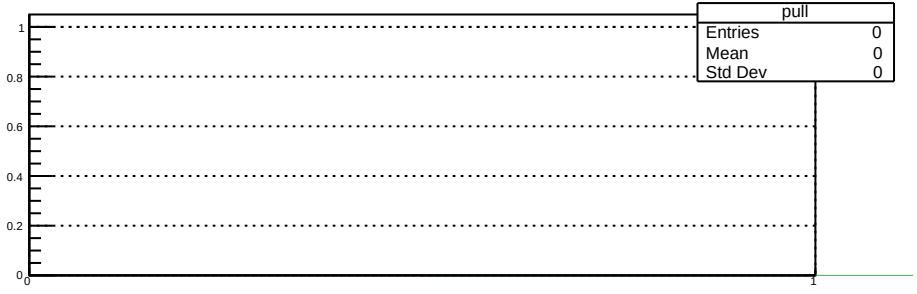
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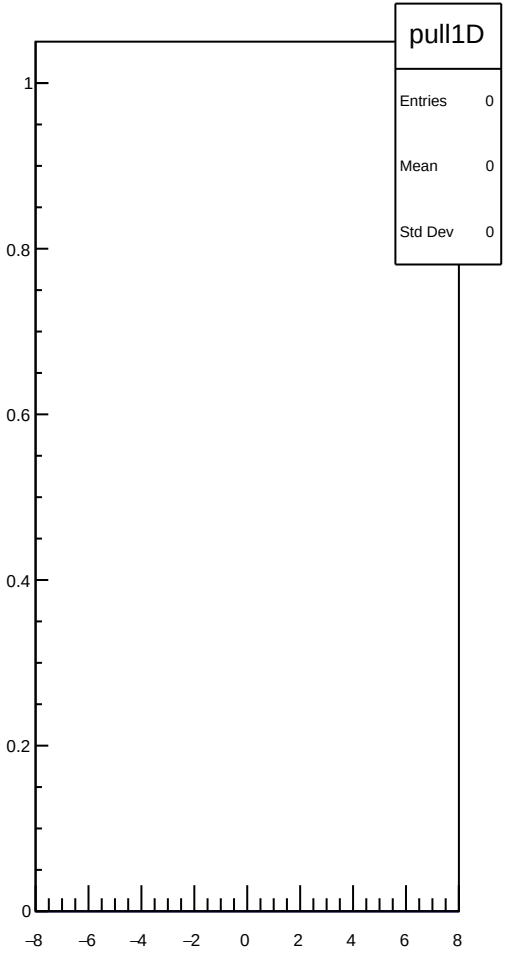
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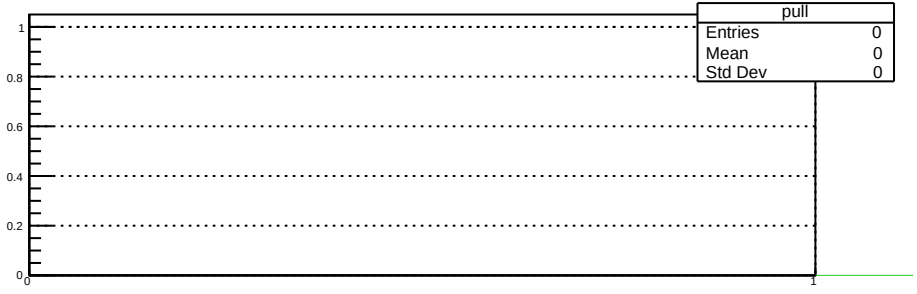
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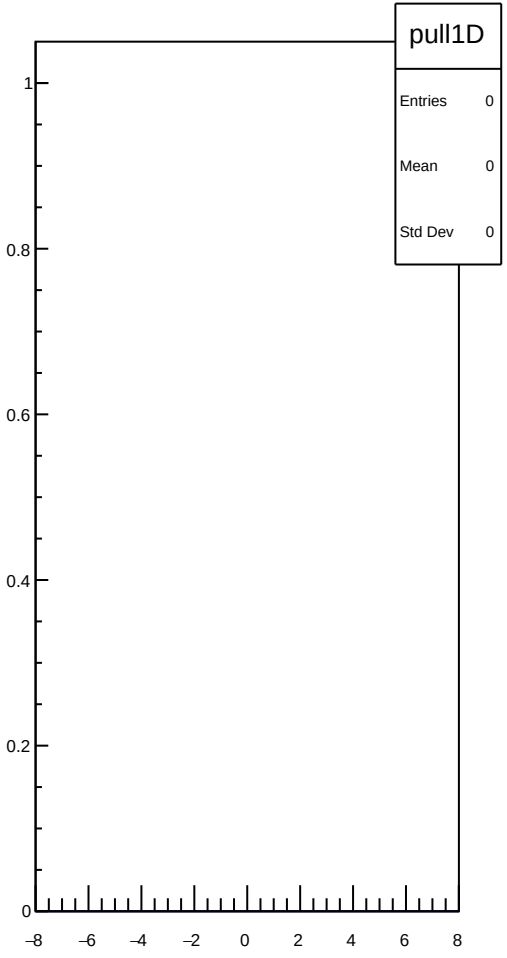
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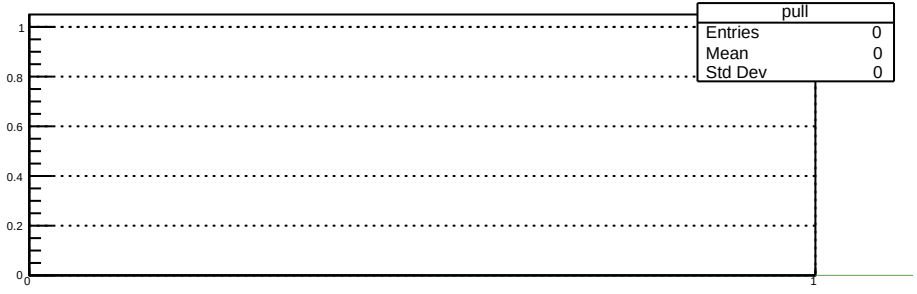
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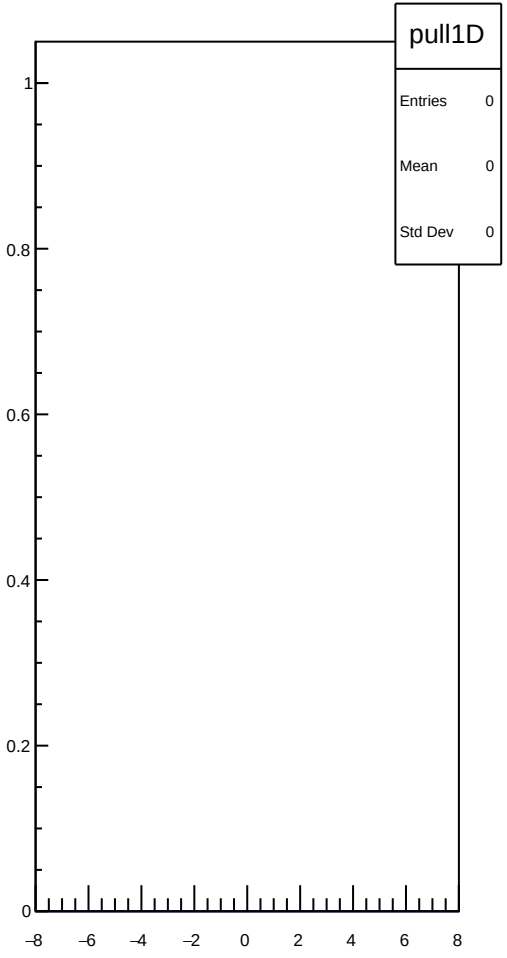
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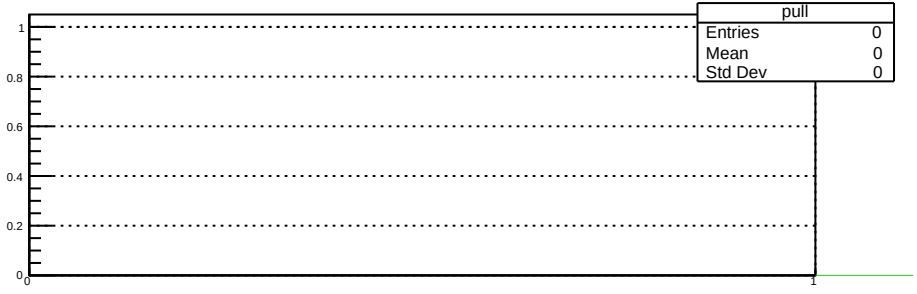
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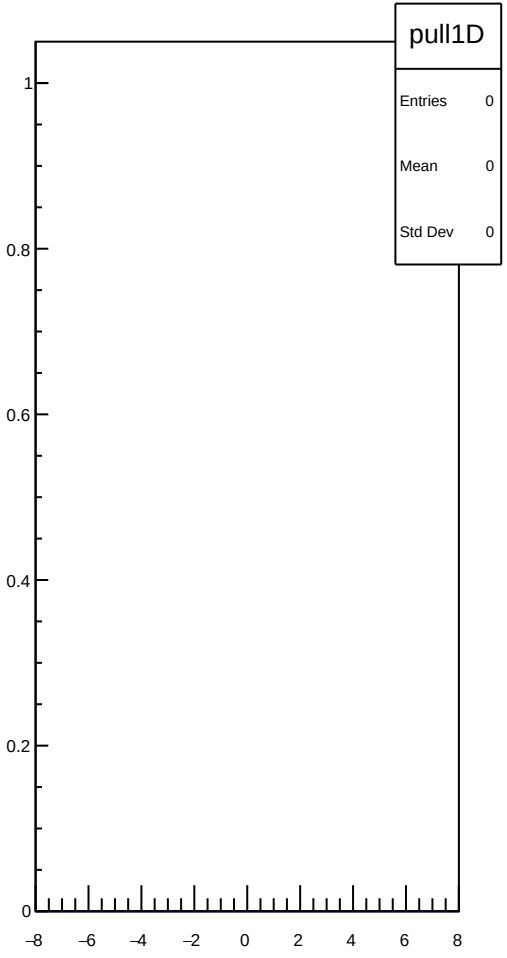
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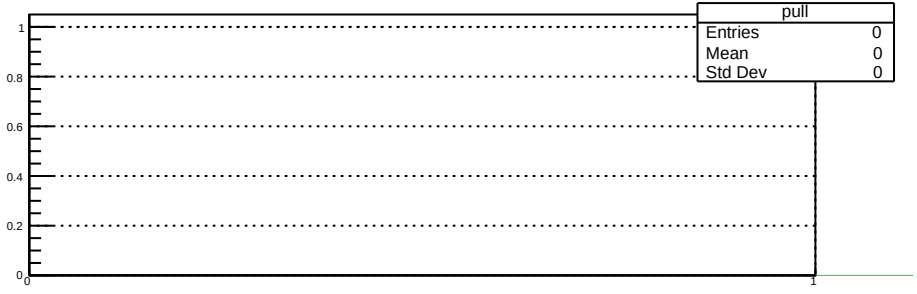
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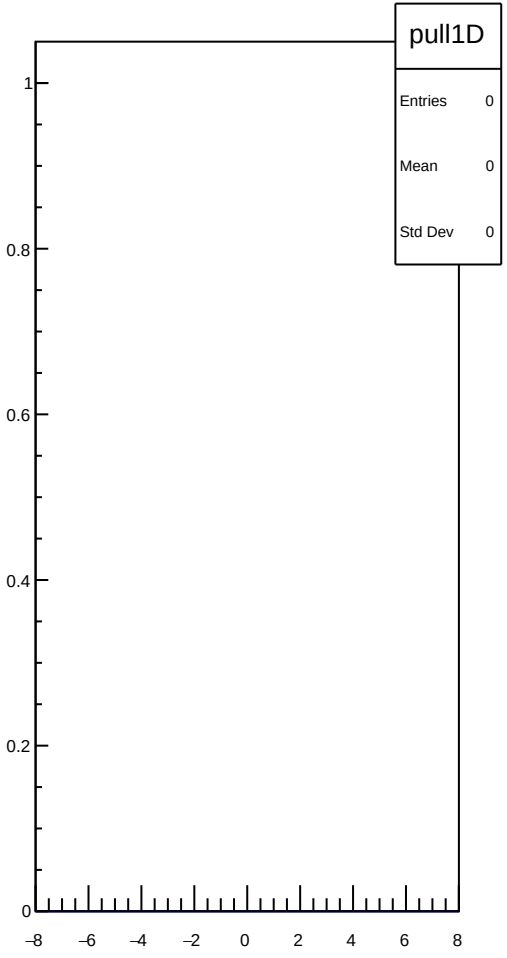
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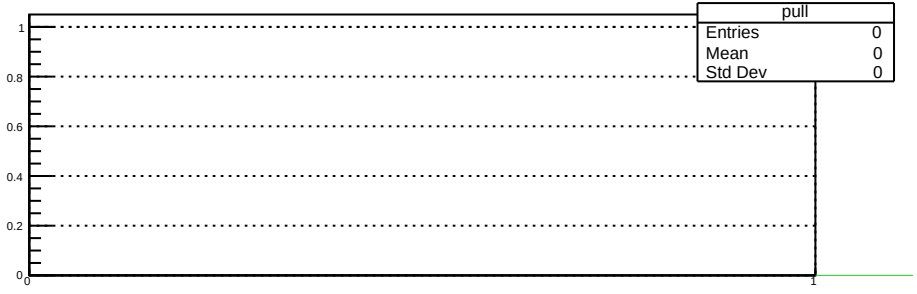
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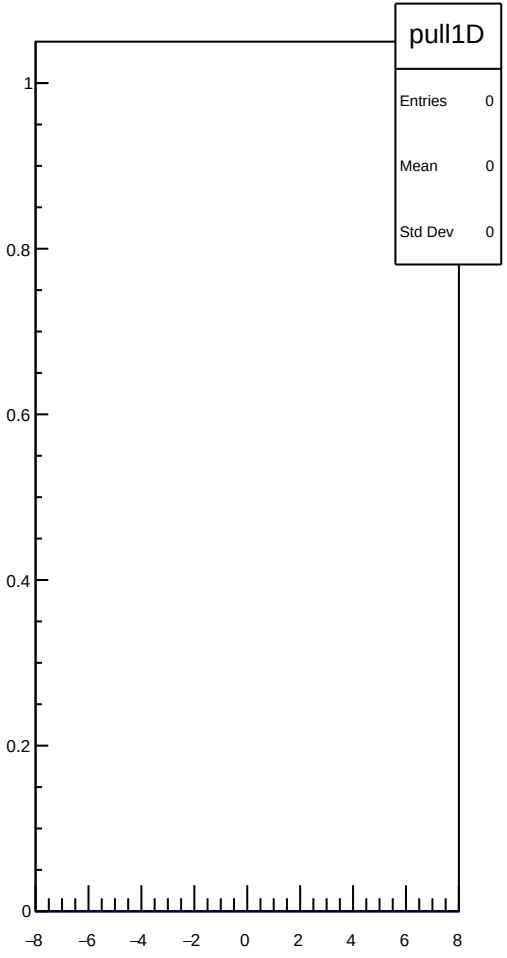
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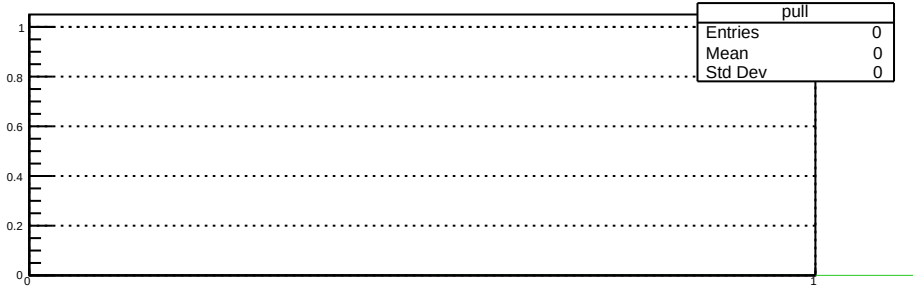
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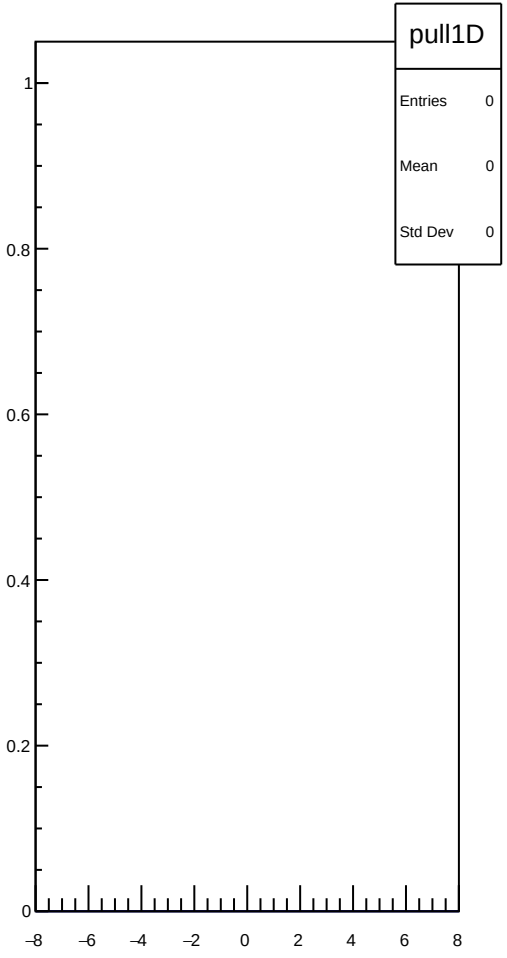
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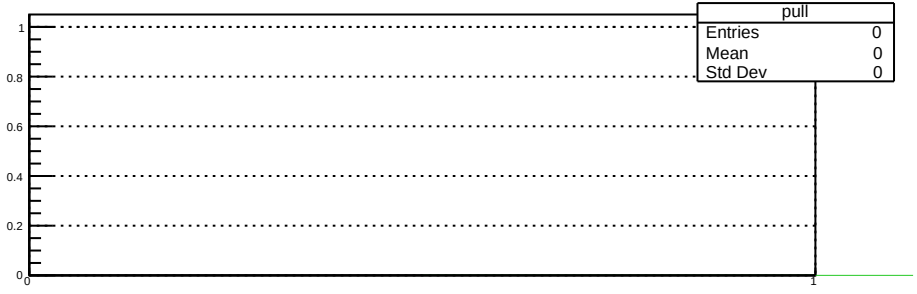
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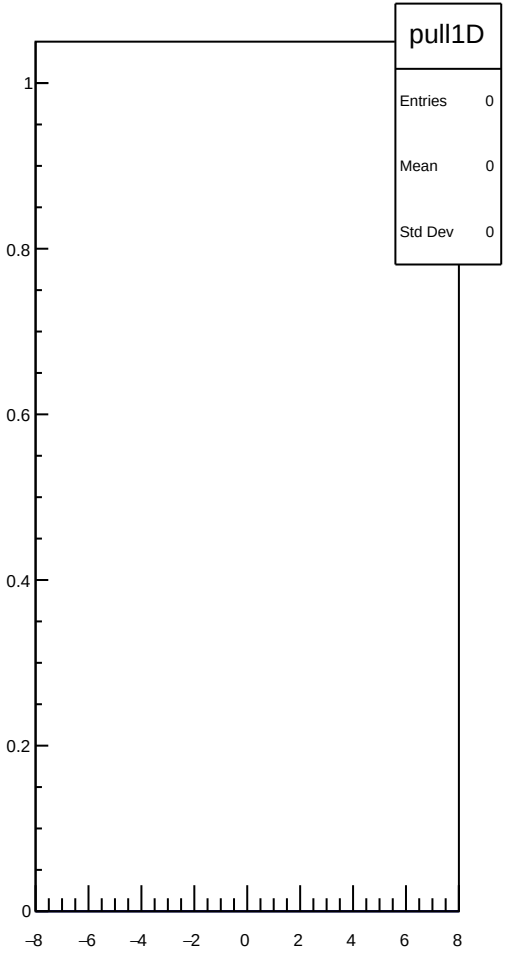
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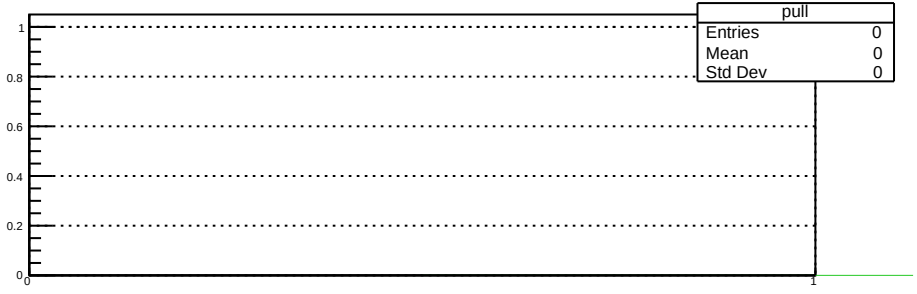
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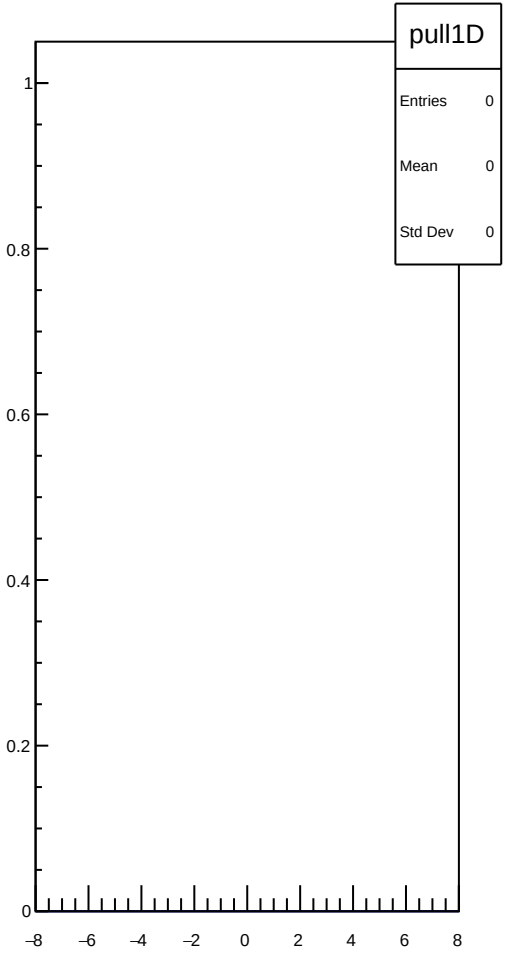
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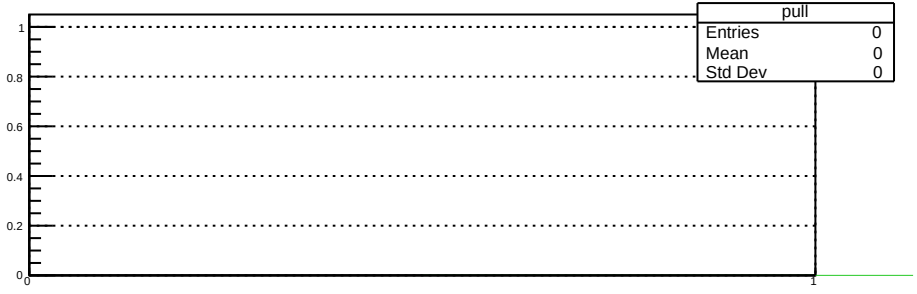
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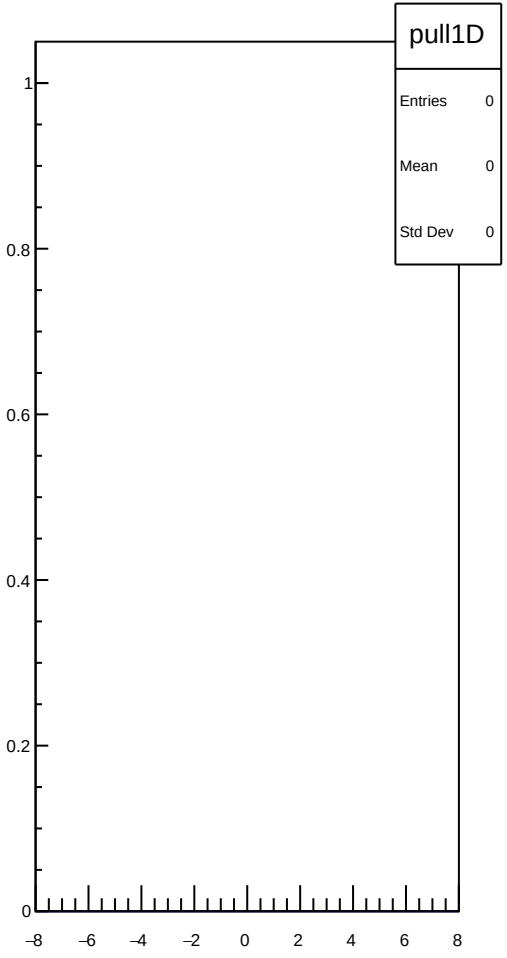
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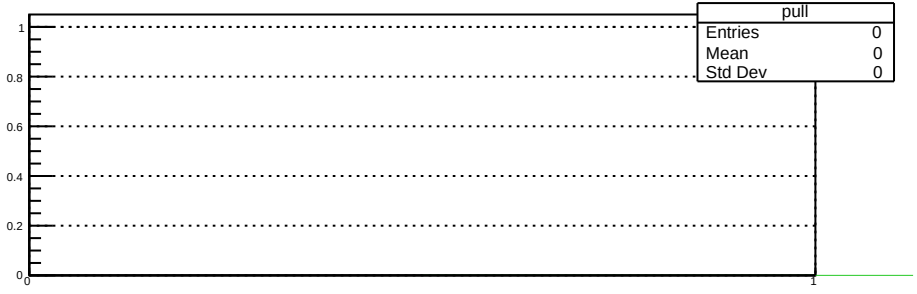
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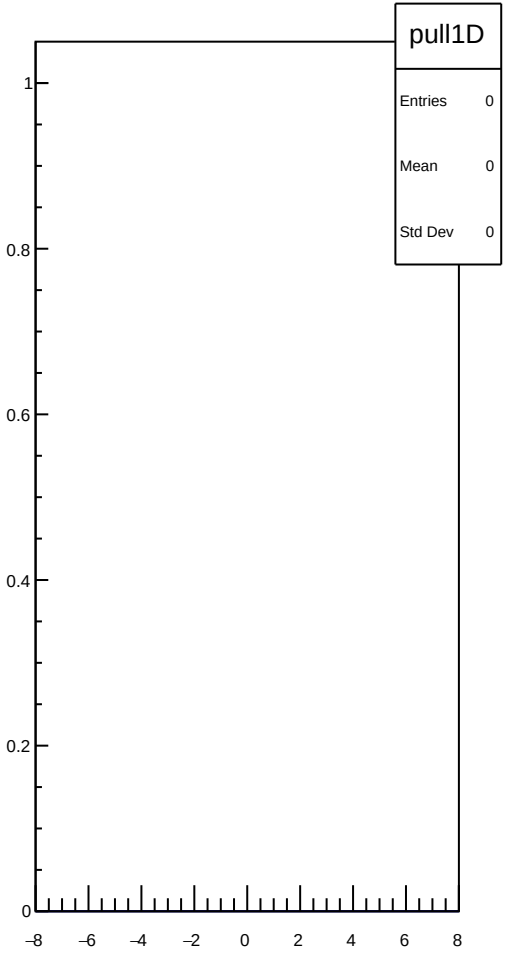
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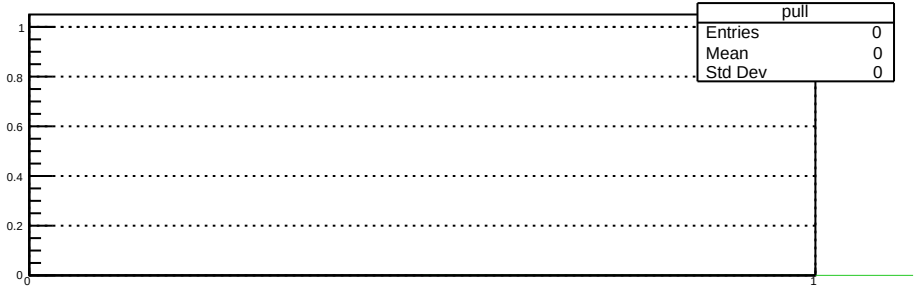
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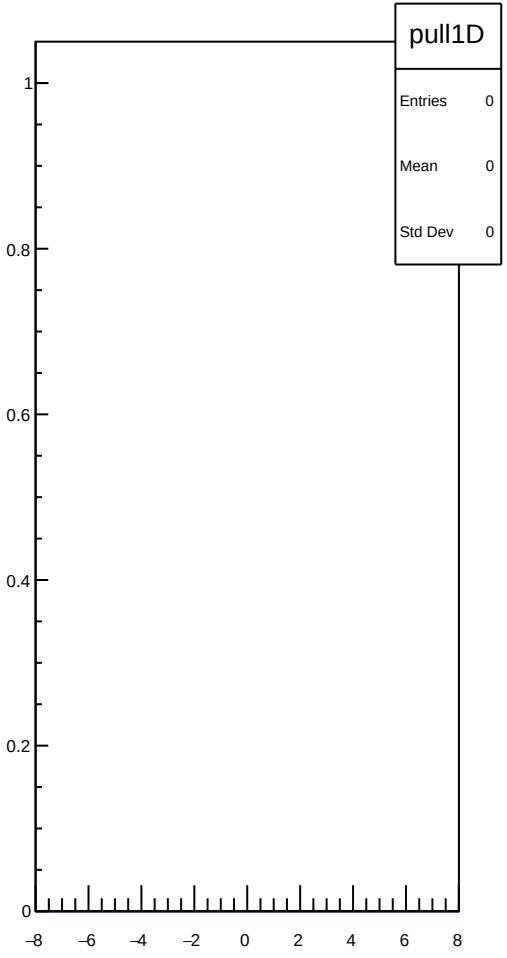
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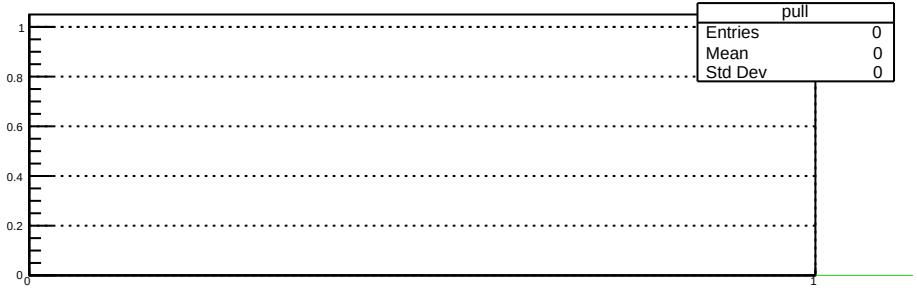
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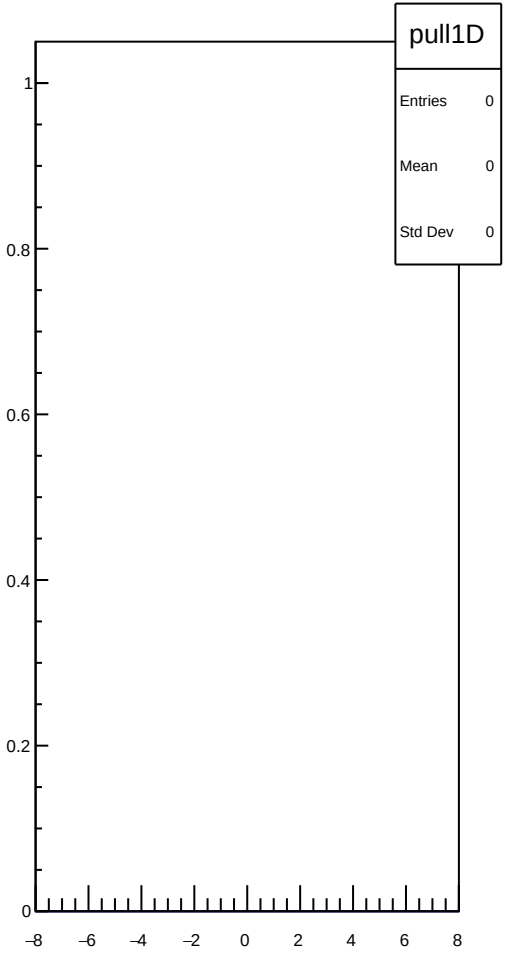
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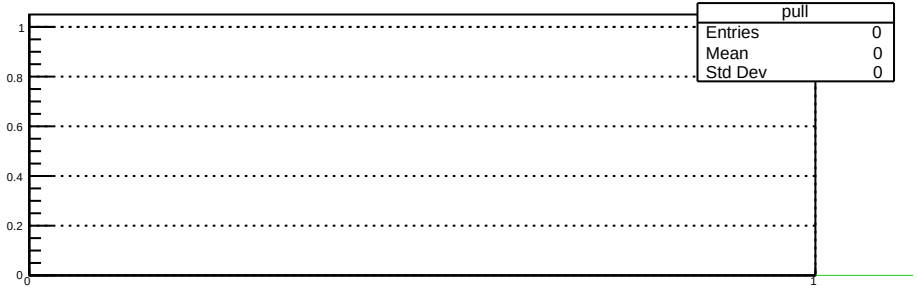
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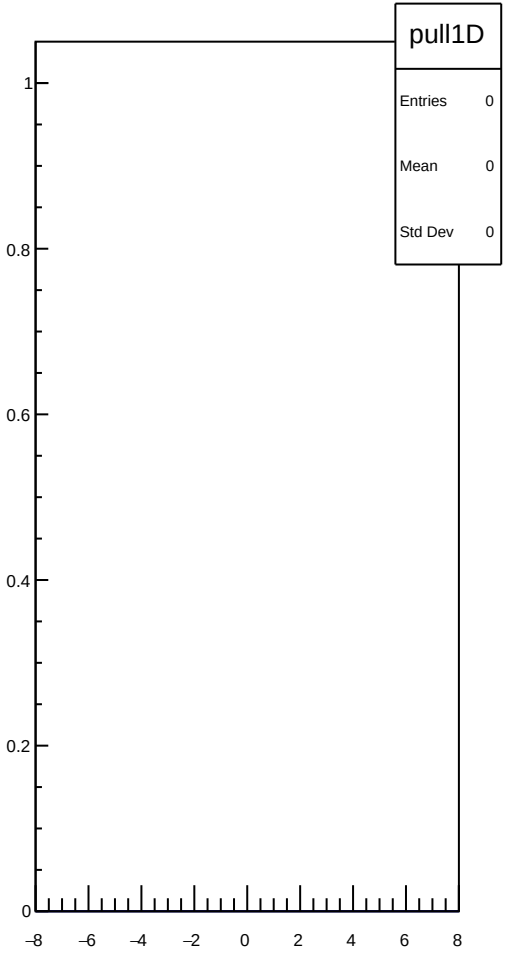
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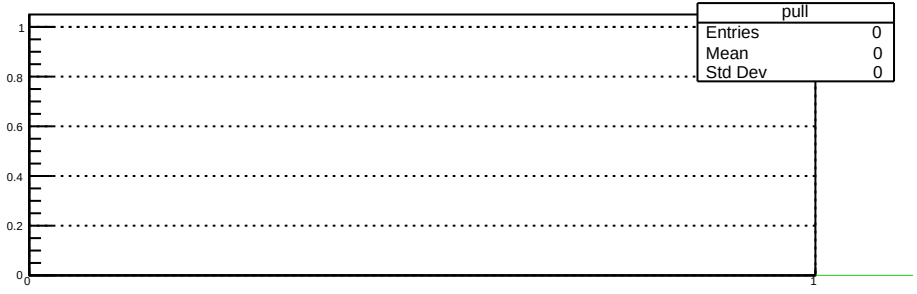
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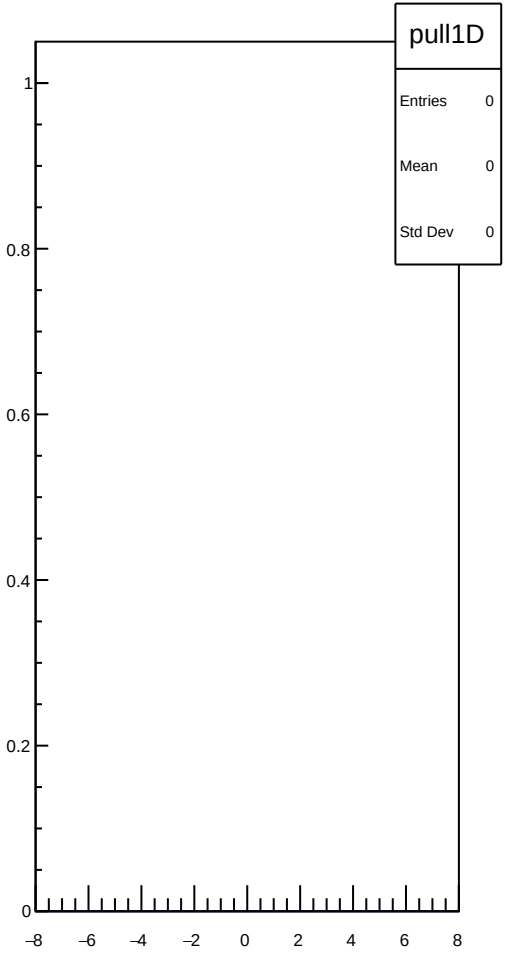
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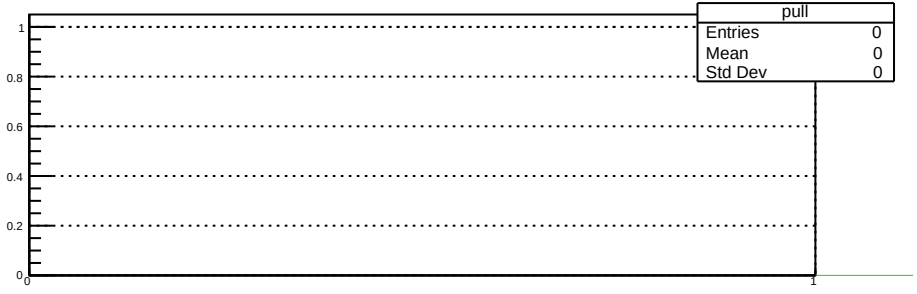
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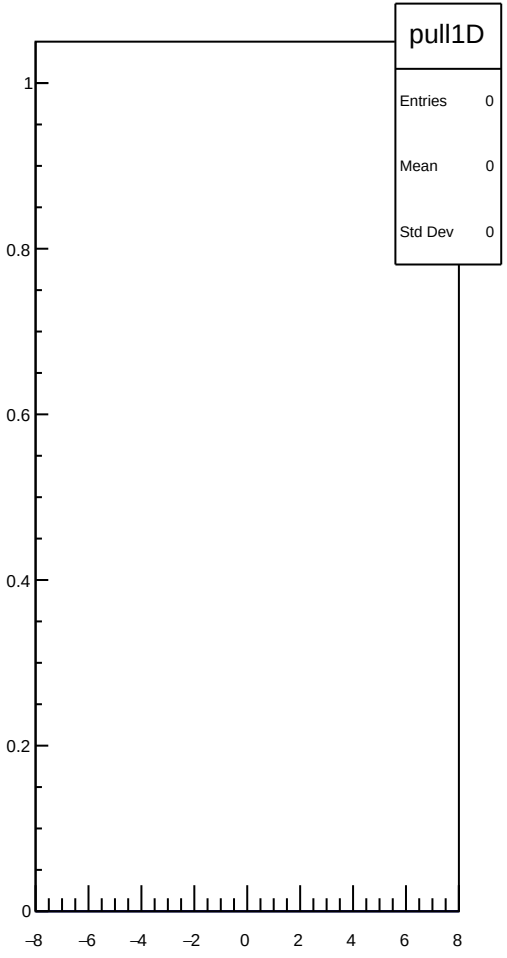
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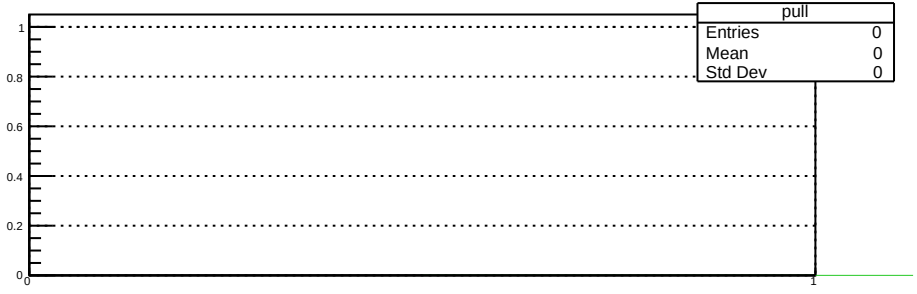
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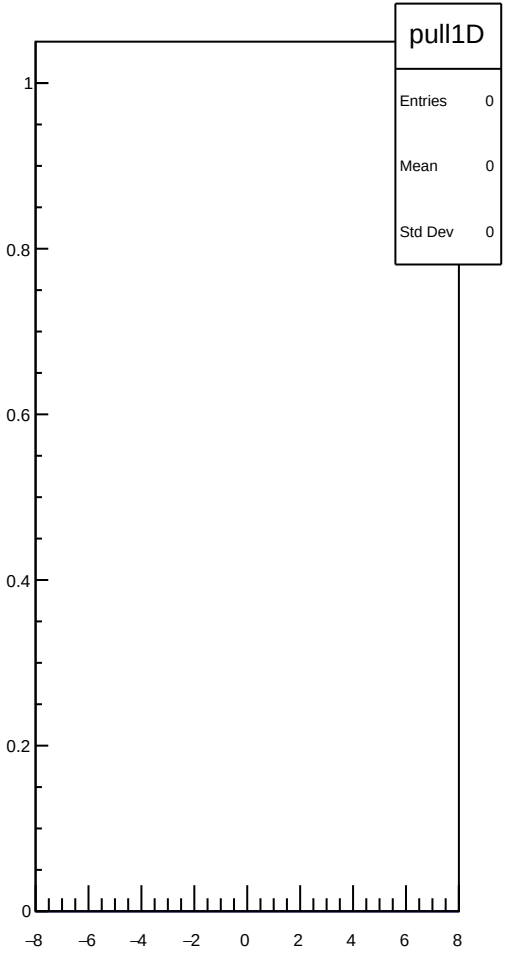
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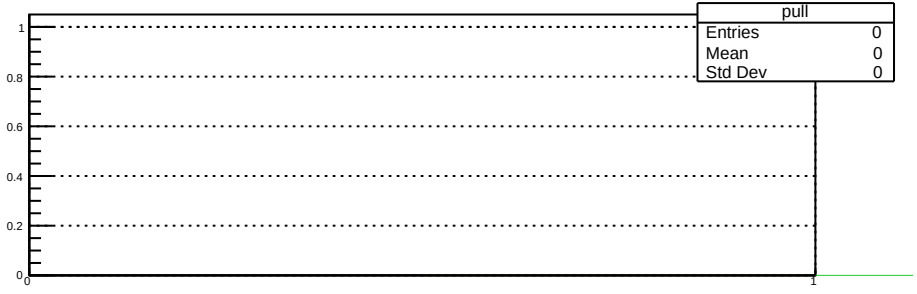
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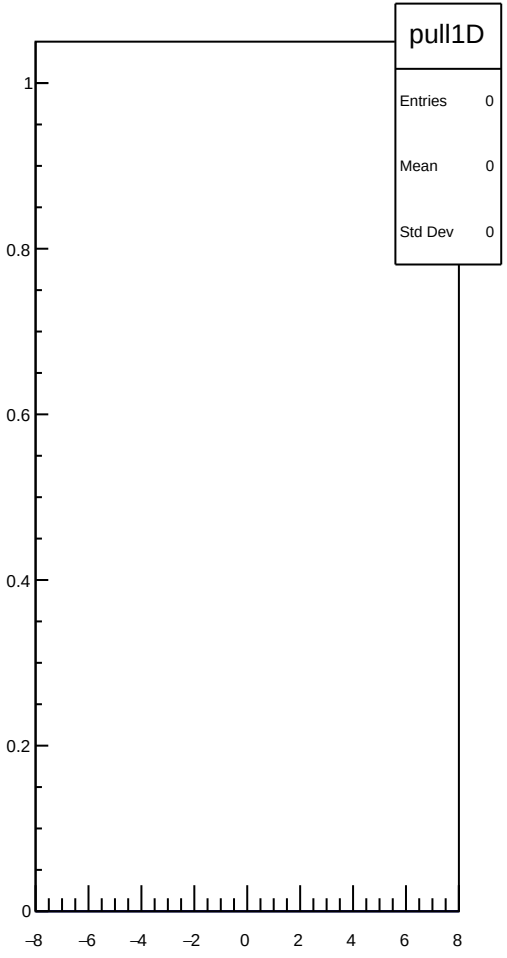
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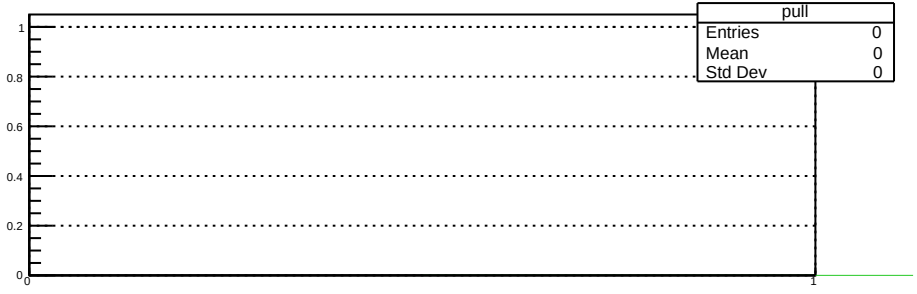
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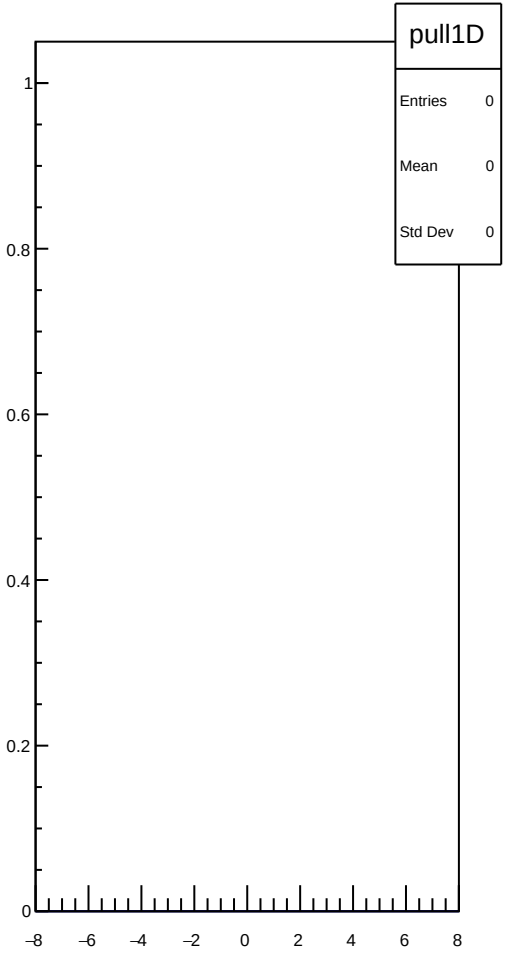
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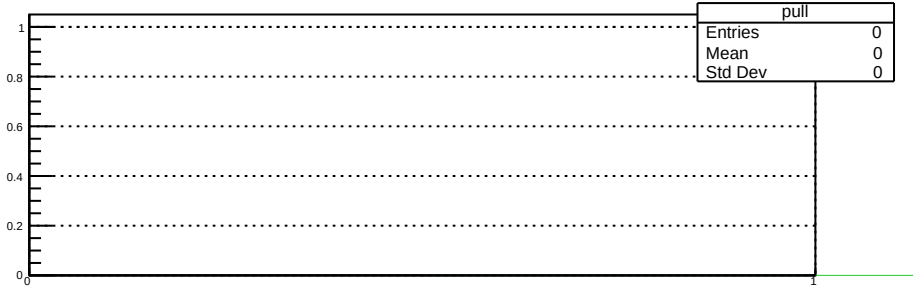
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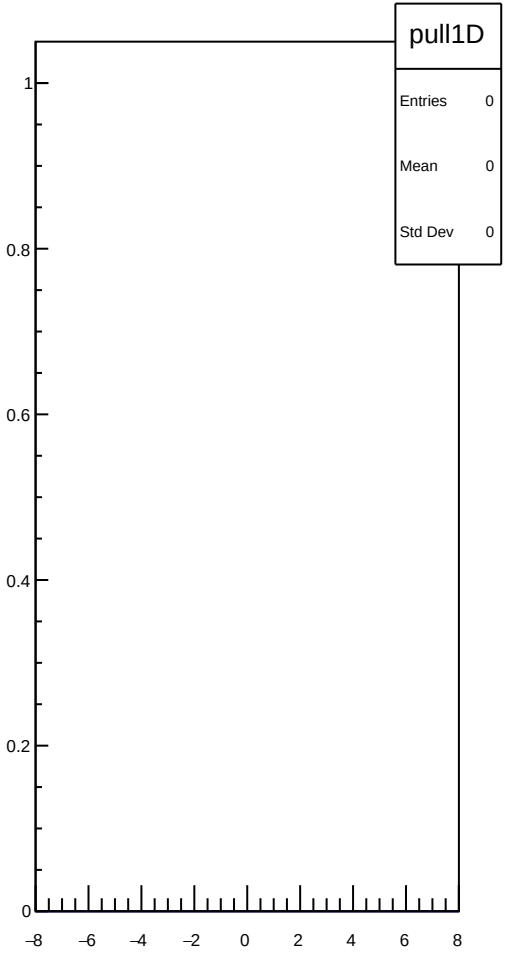
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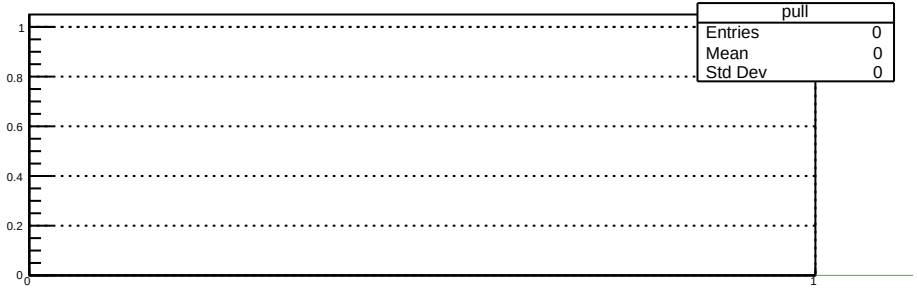
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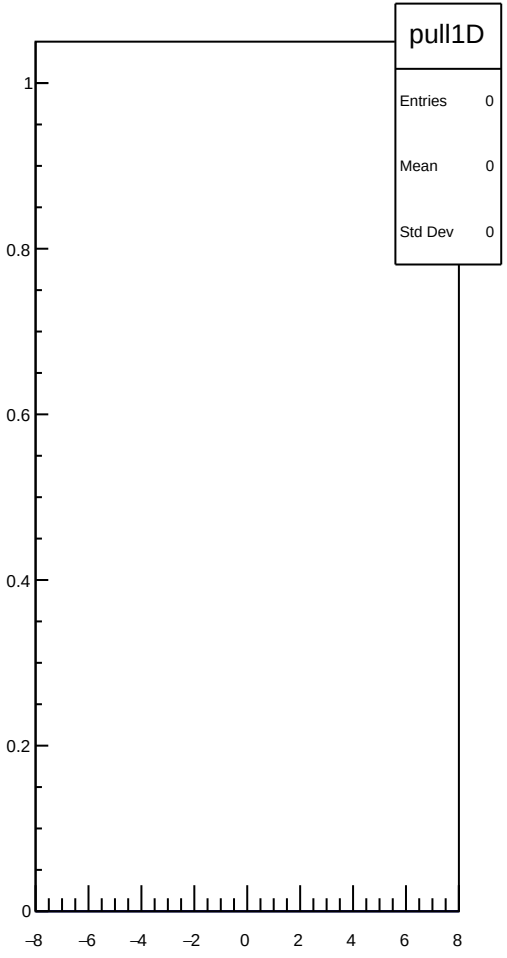
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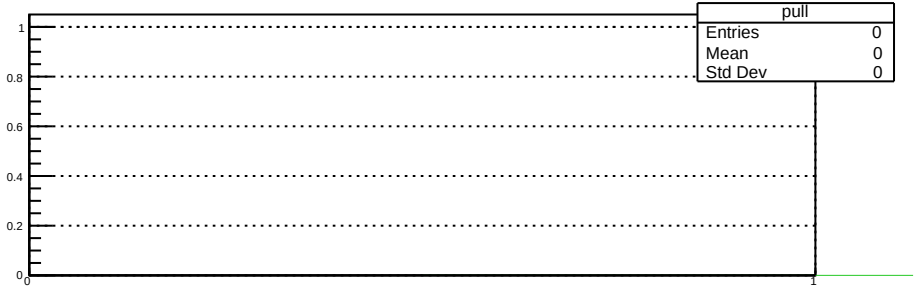
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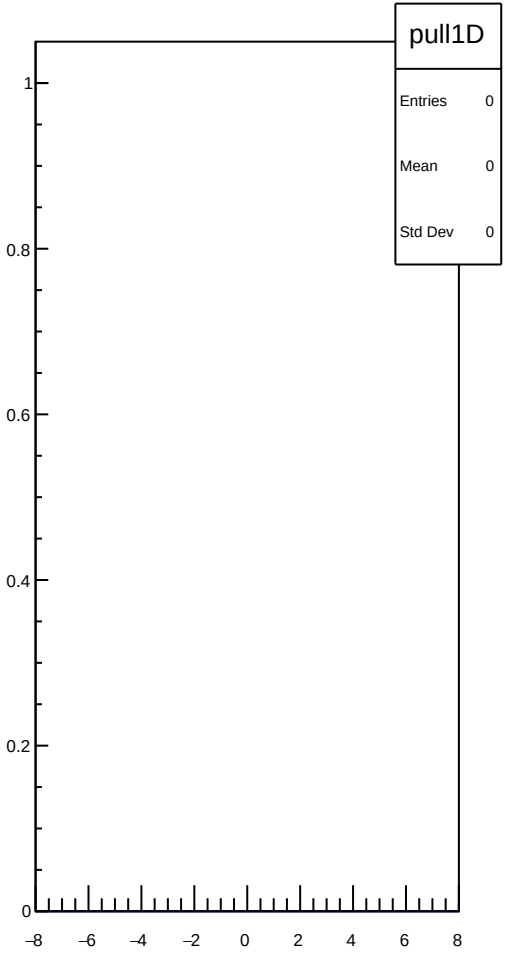
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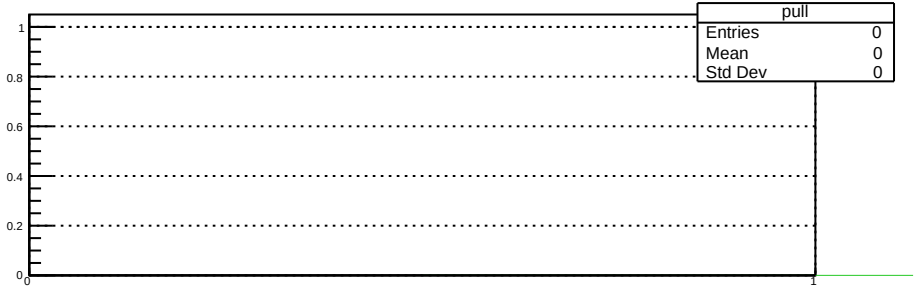
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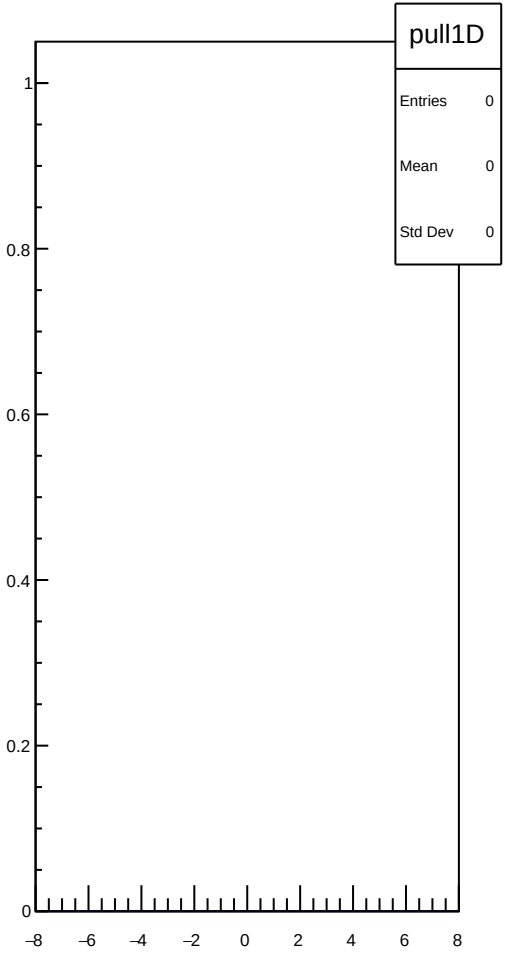
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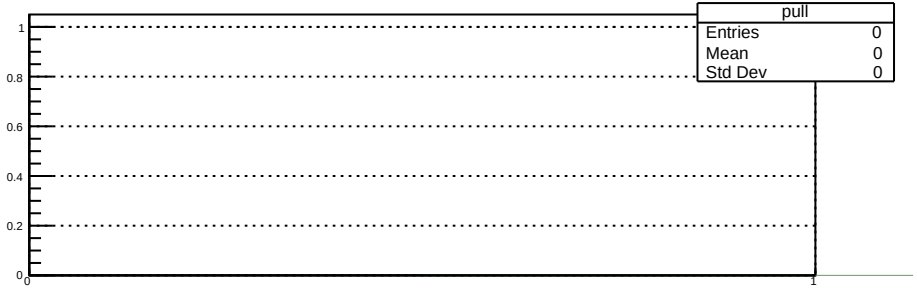
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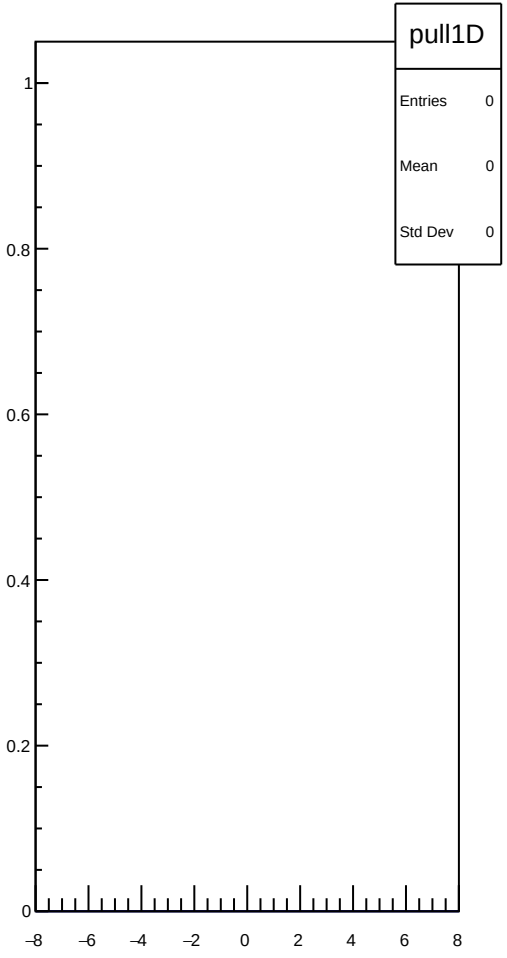
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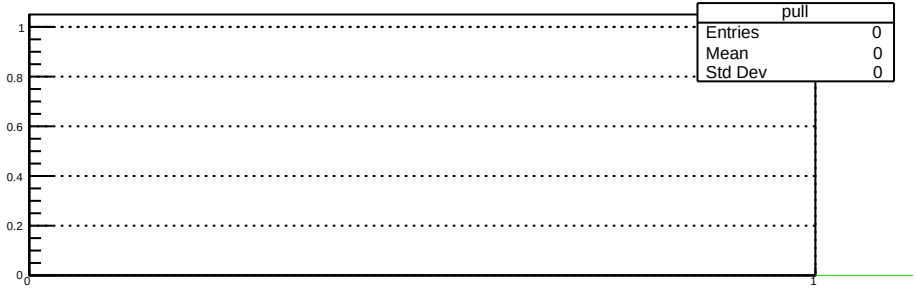
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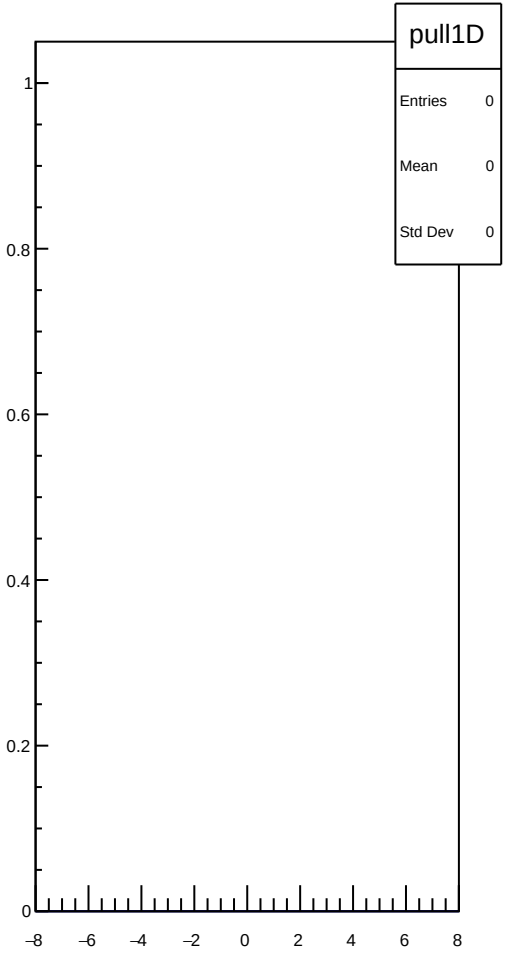
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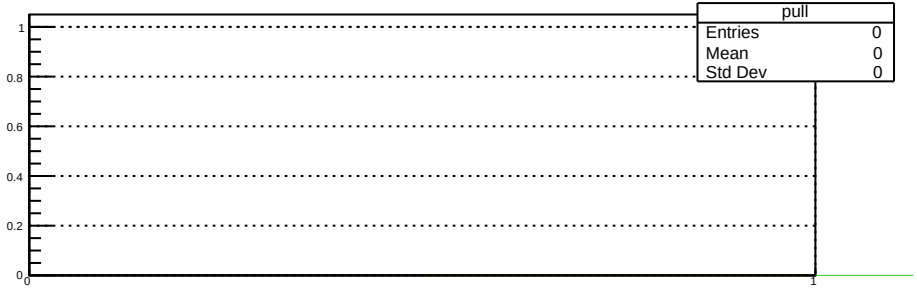
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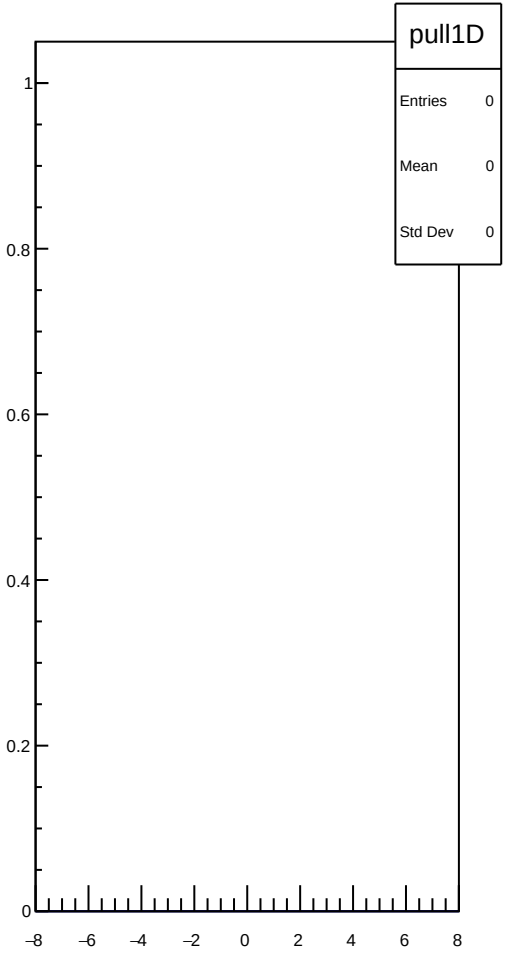
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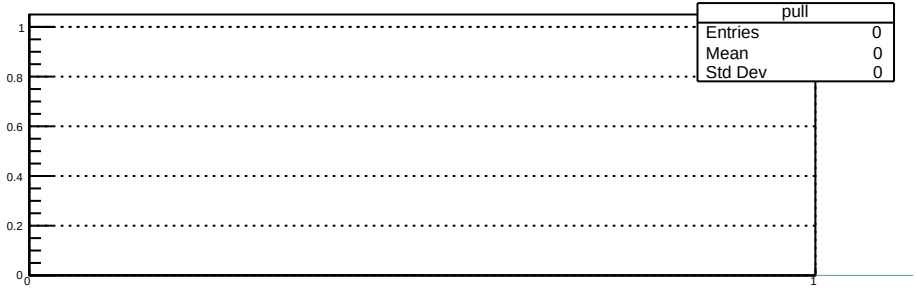
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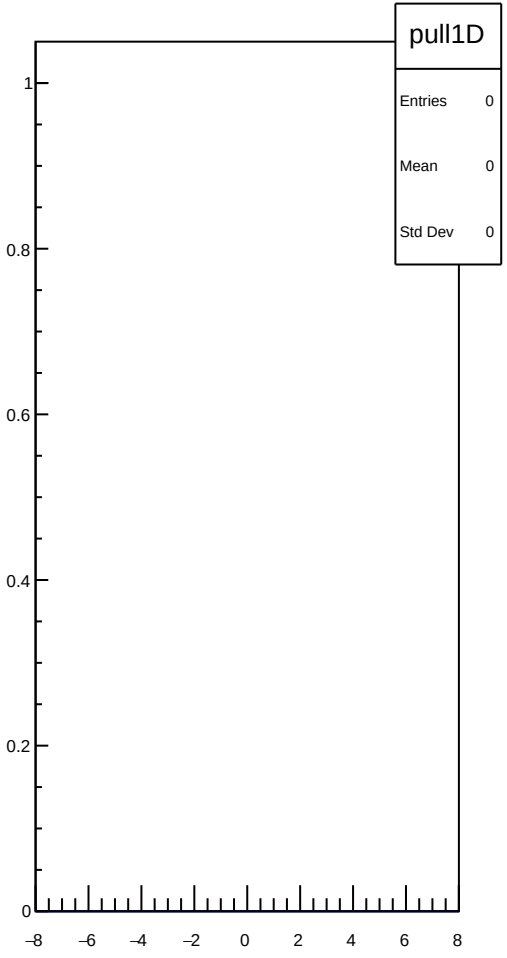
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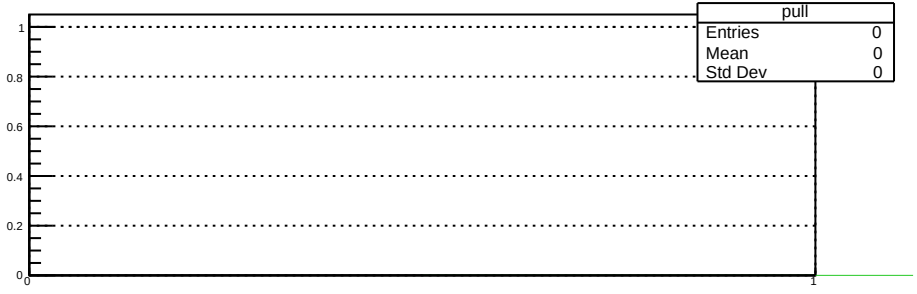
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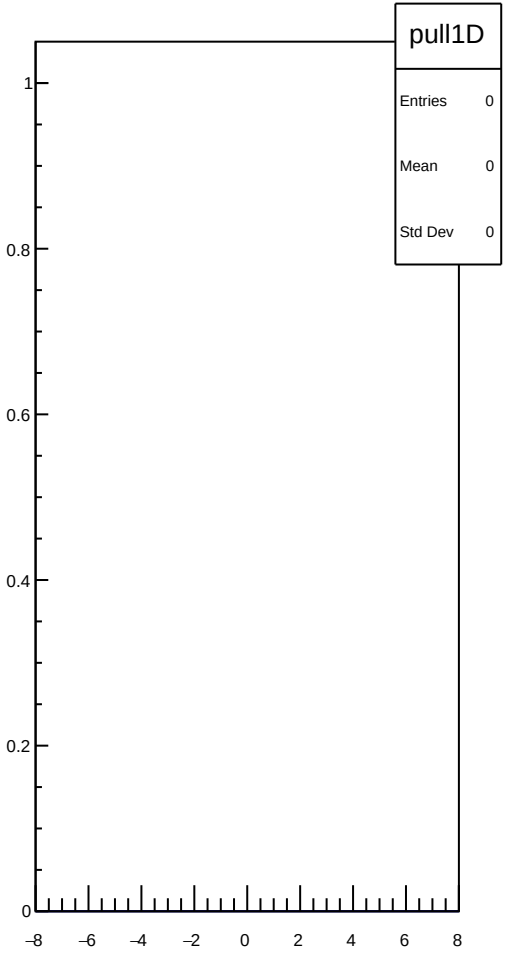
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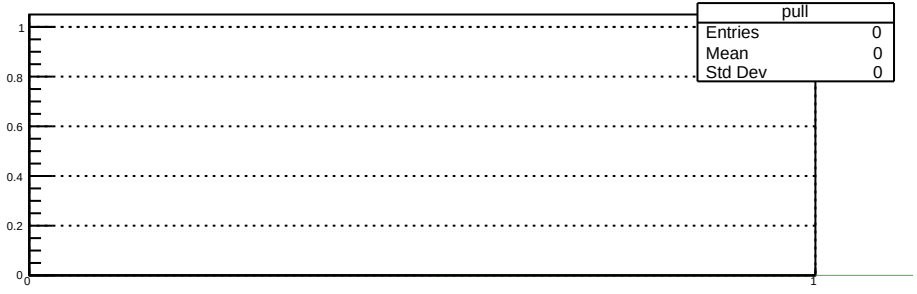
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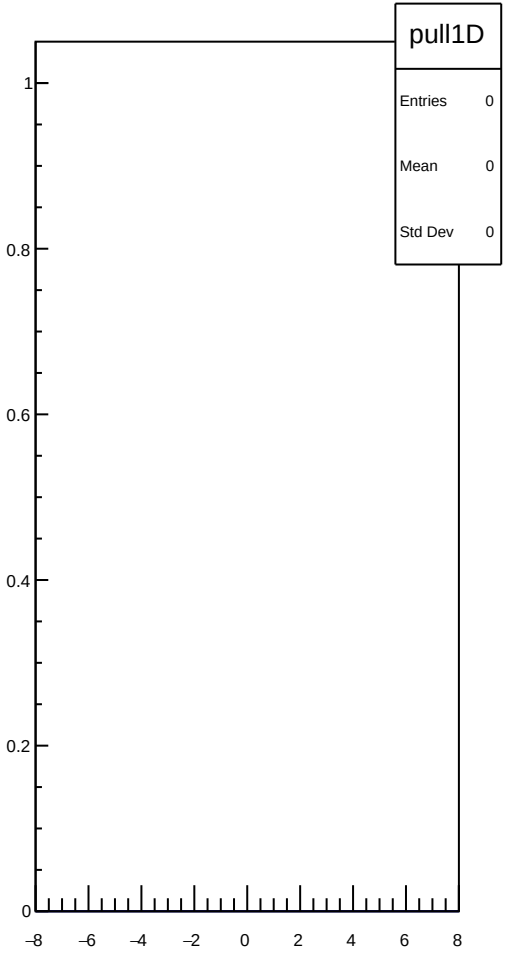
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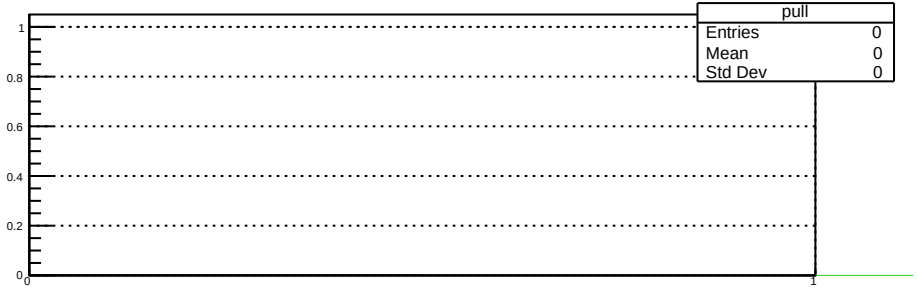
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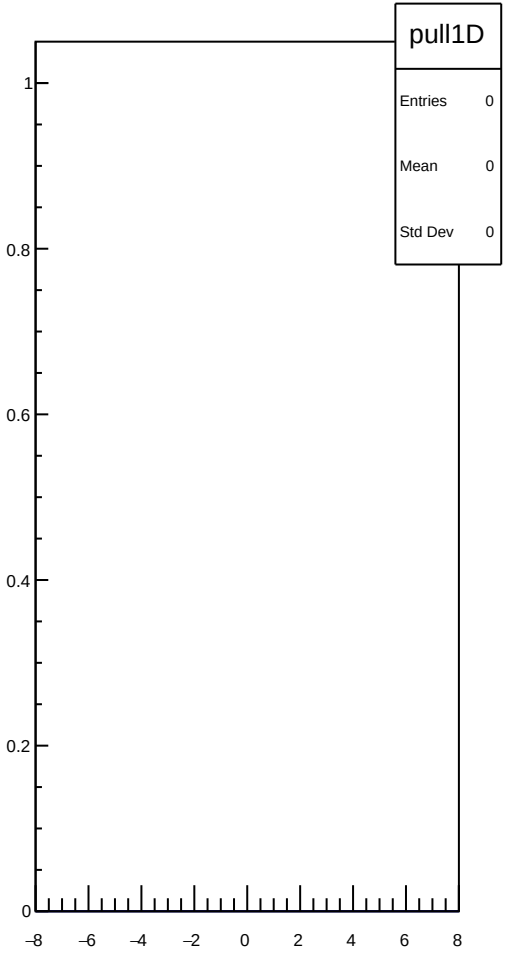
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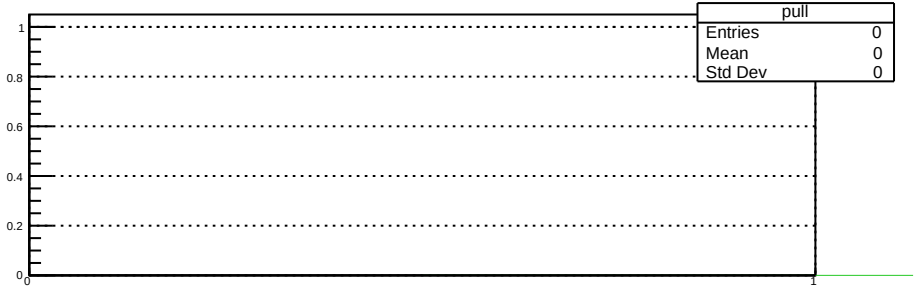
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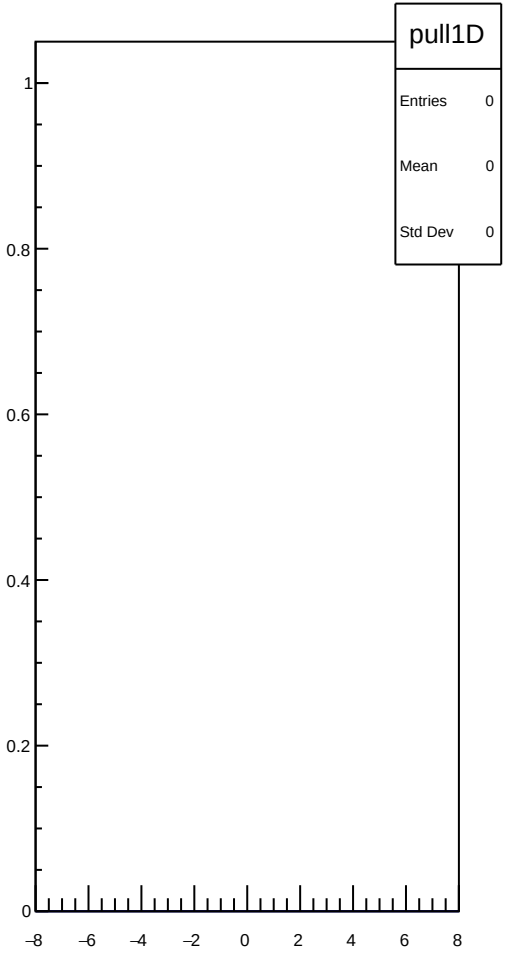
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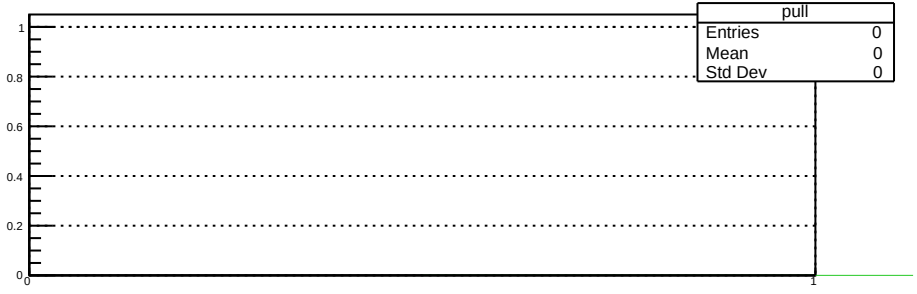
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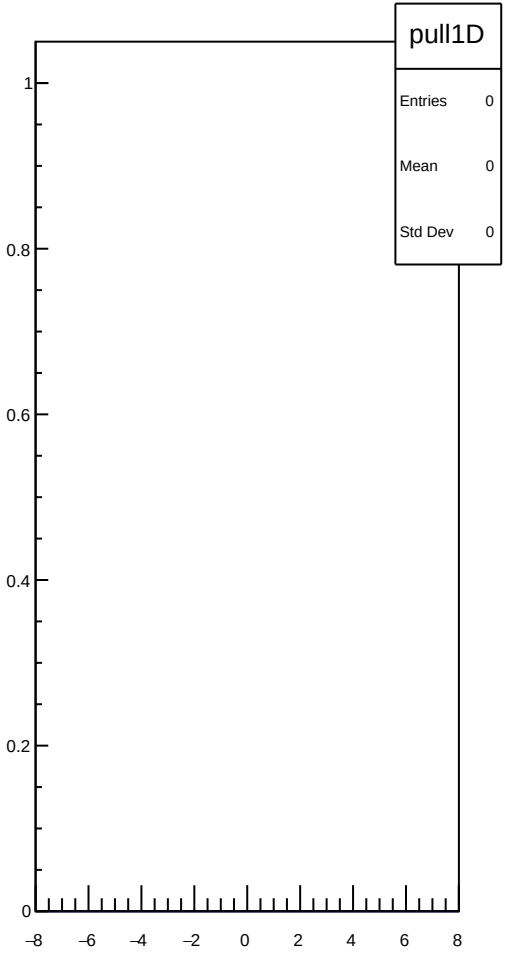
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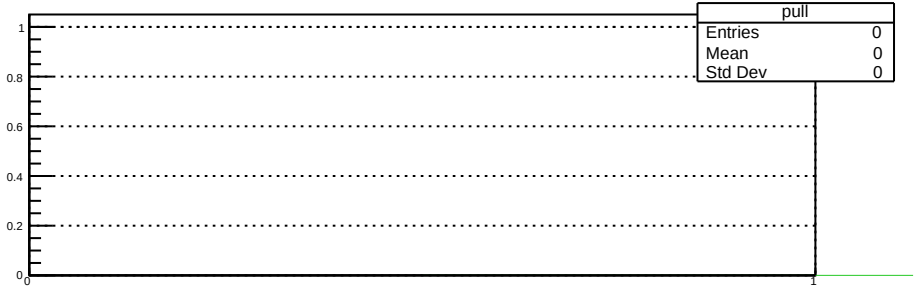
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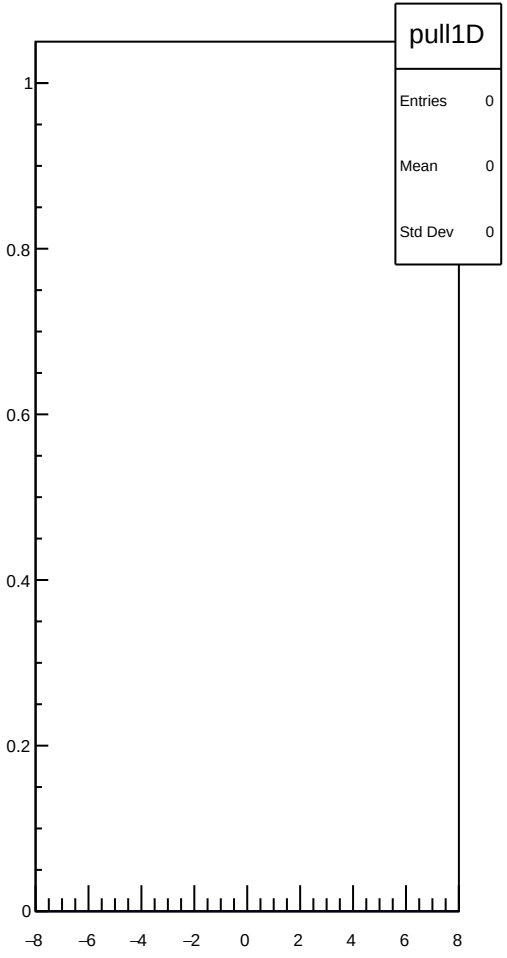
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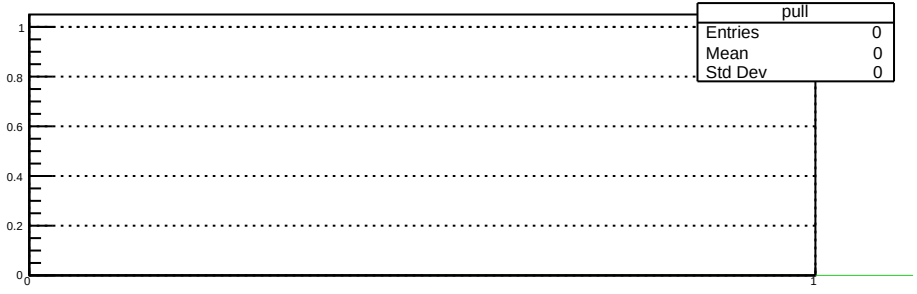
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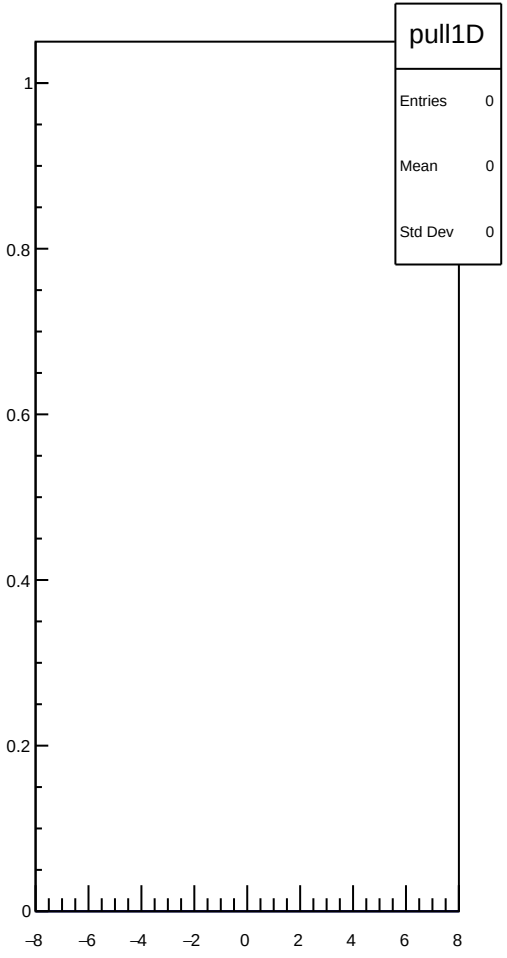
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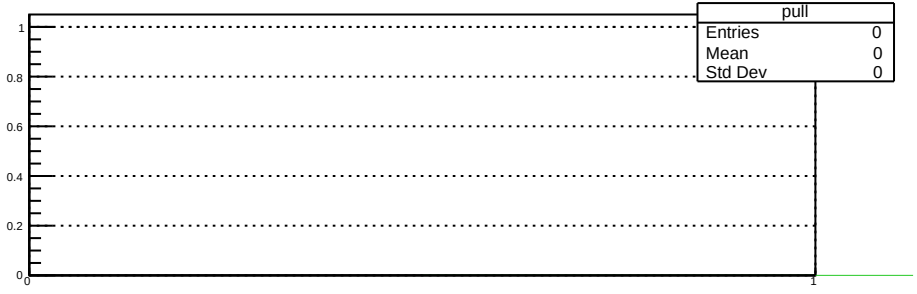
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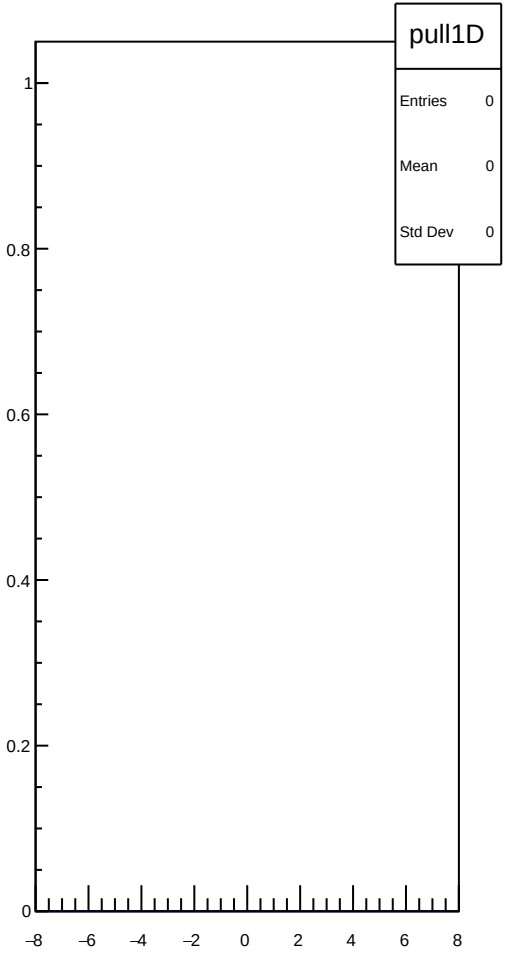
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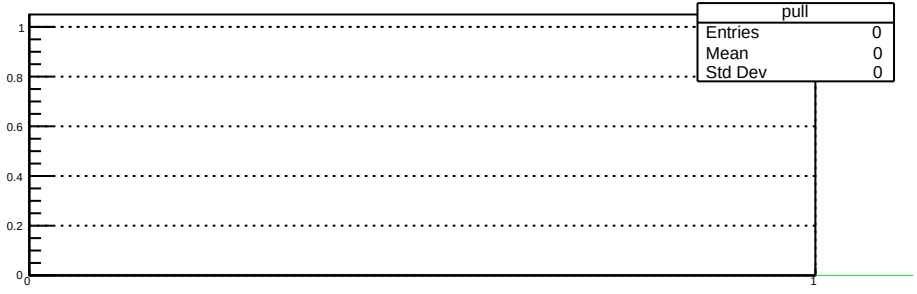
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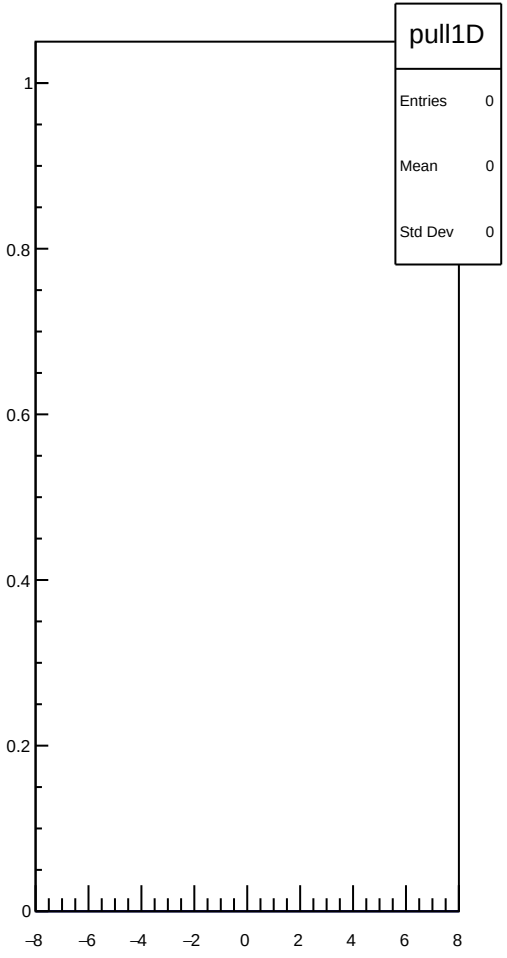
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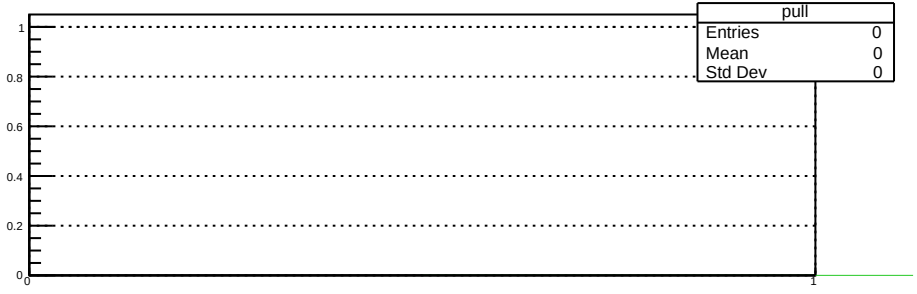
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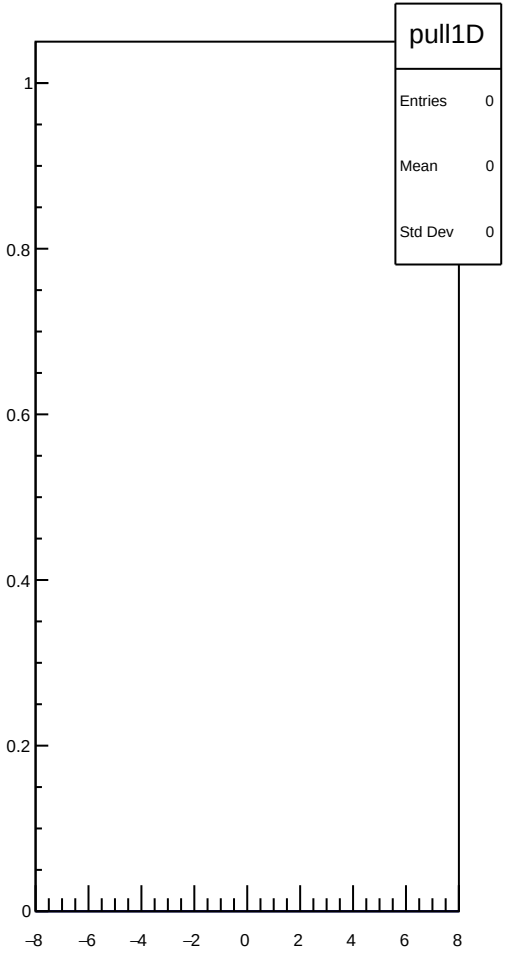
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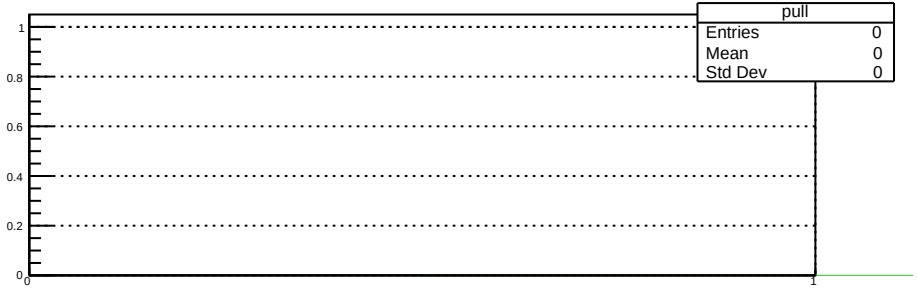
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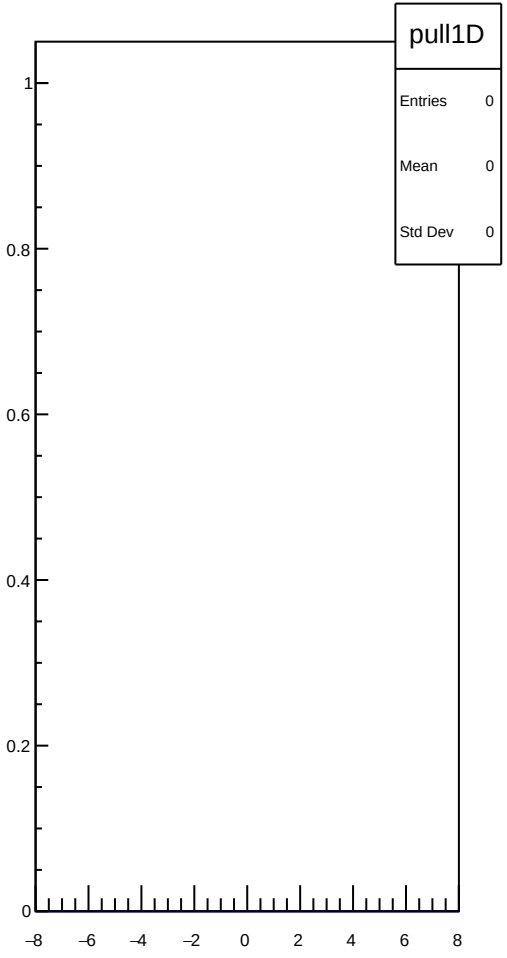
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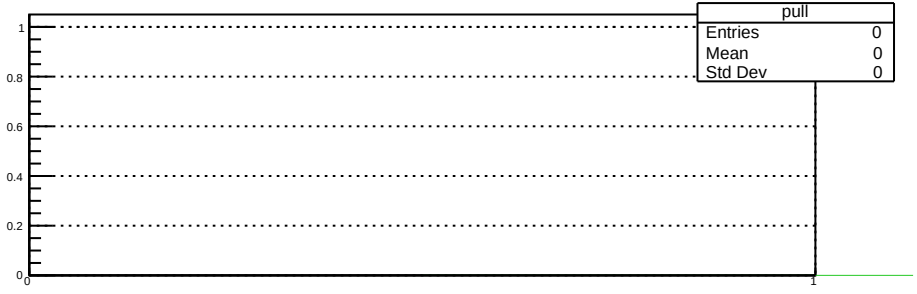
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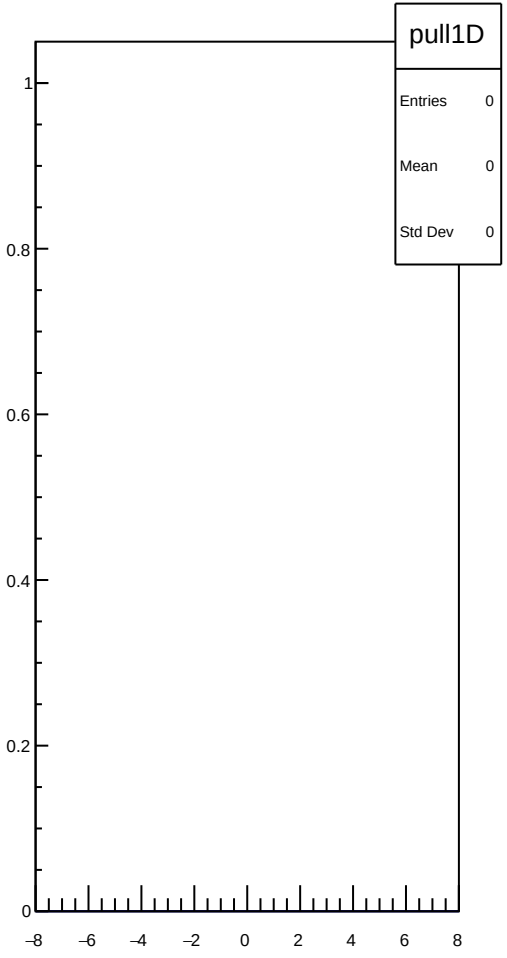
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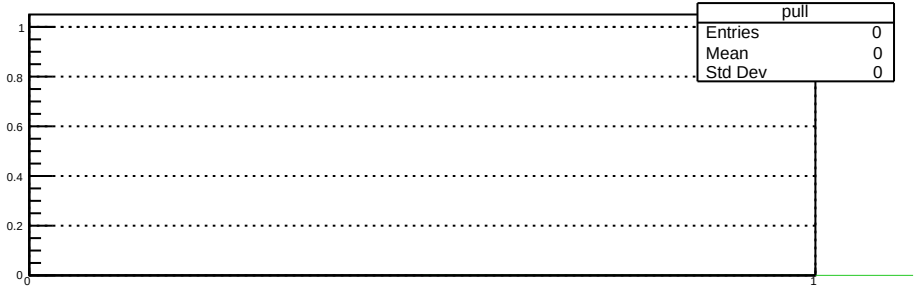
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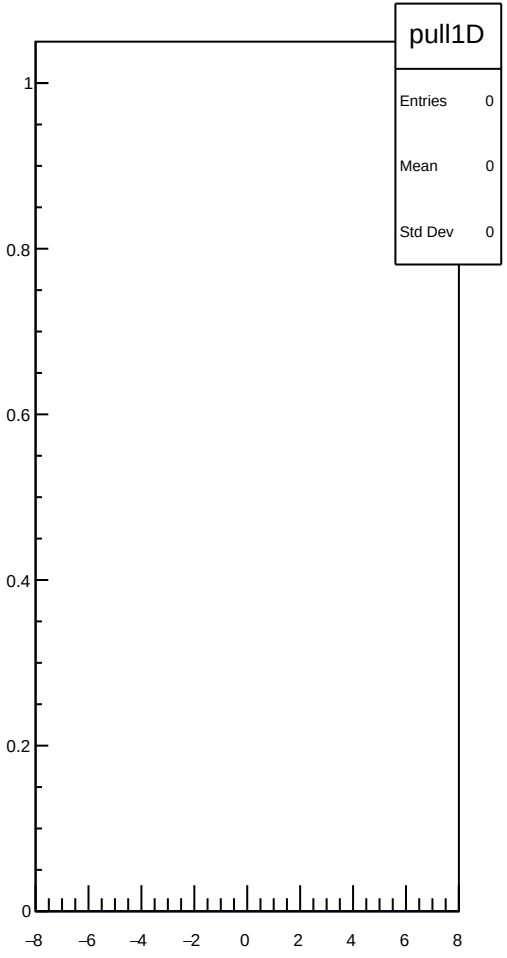
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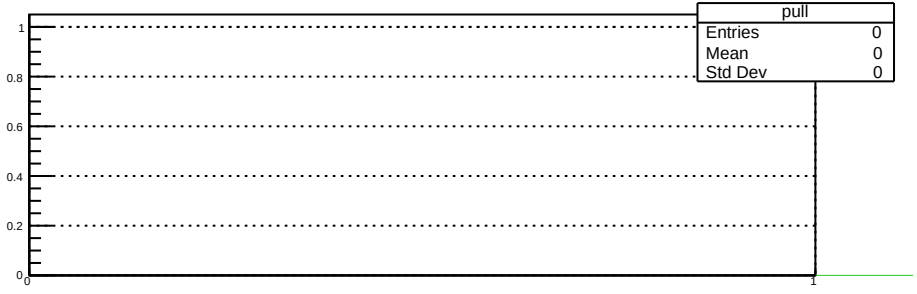
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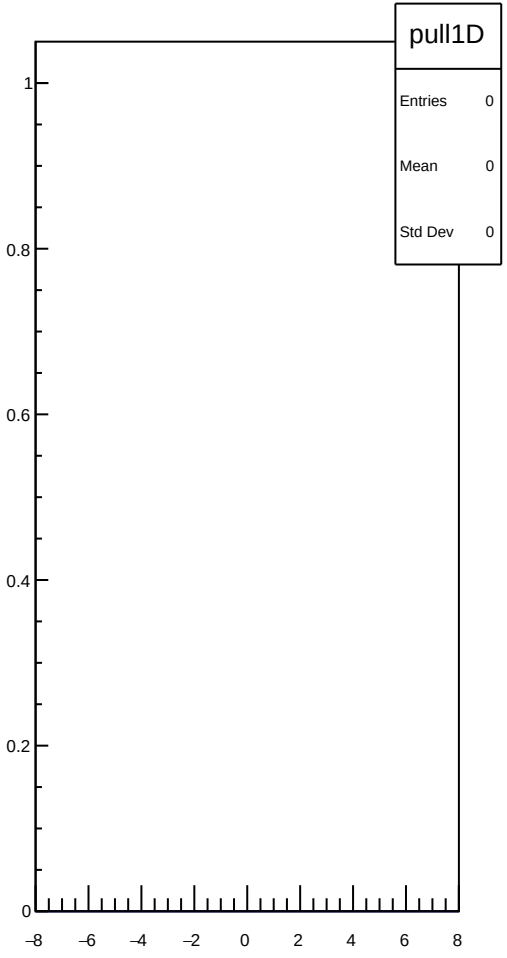
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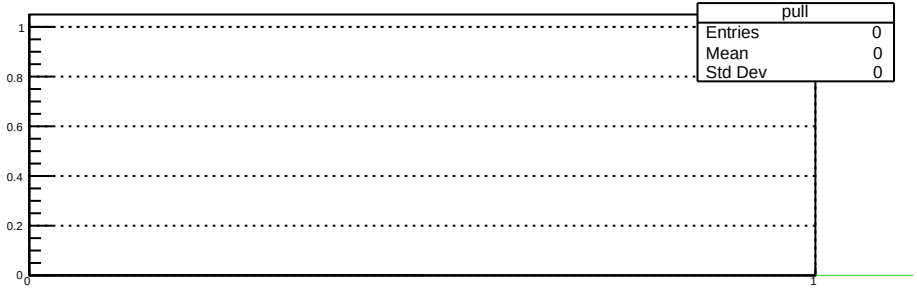
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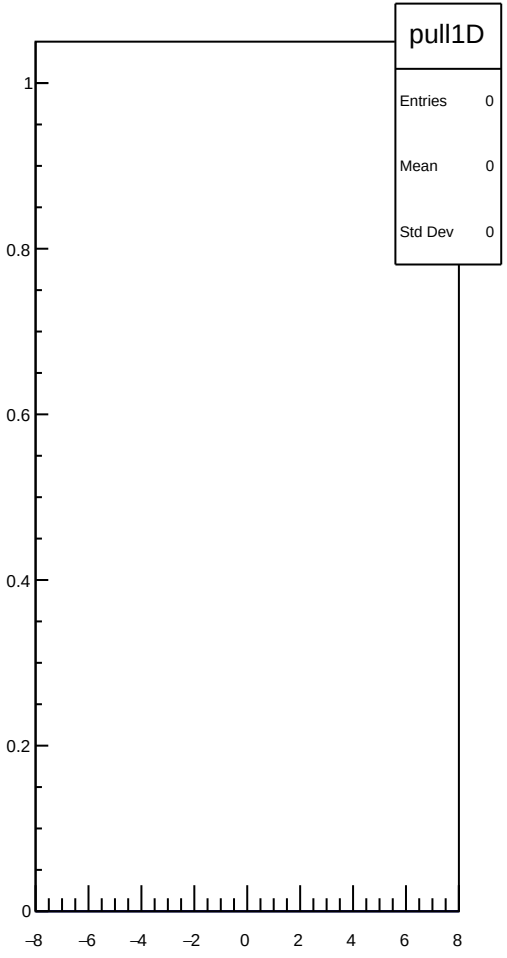
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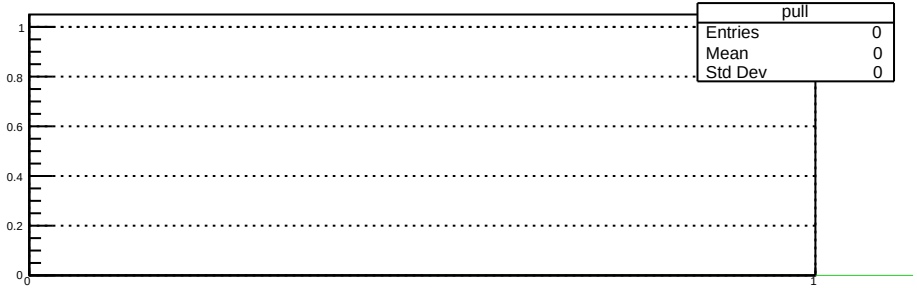
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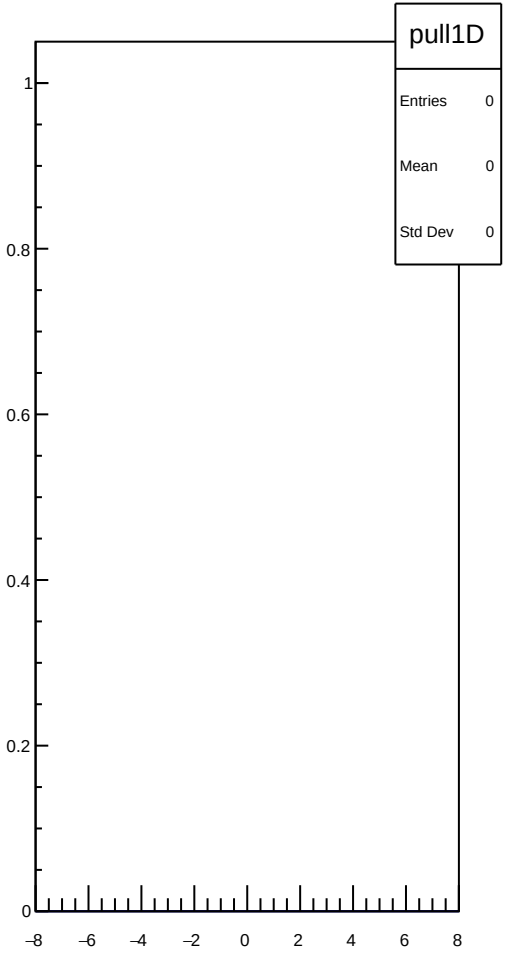
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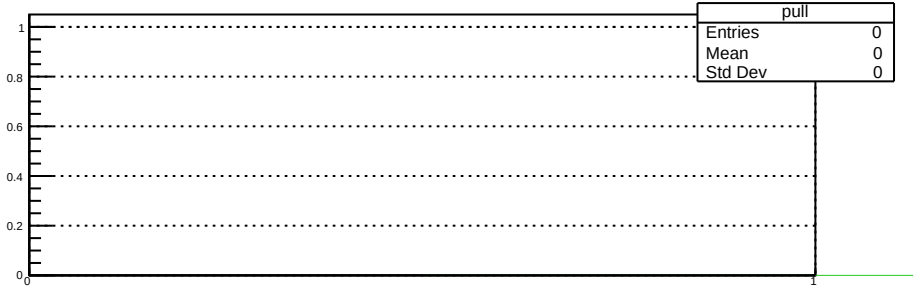
pull
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Std Dev 0
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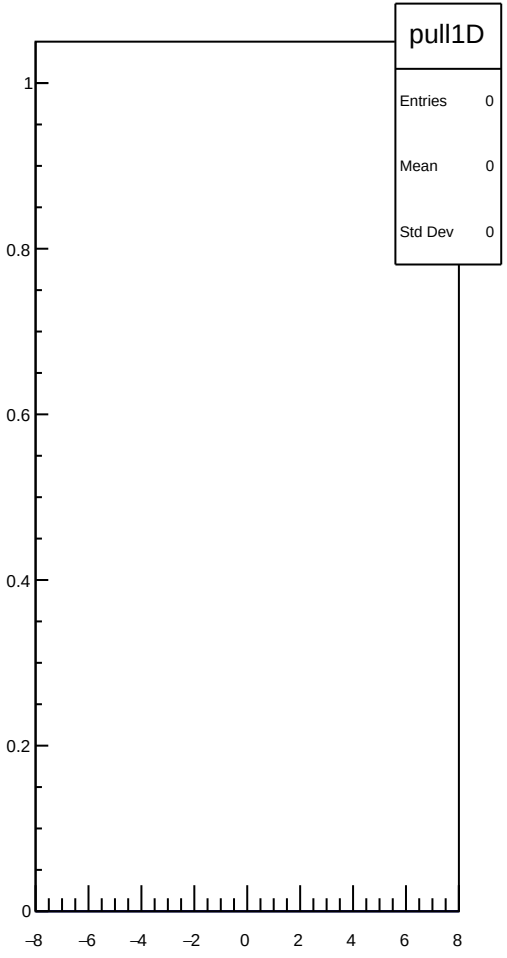
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Std Dev 0
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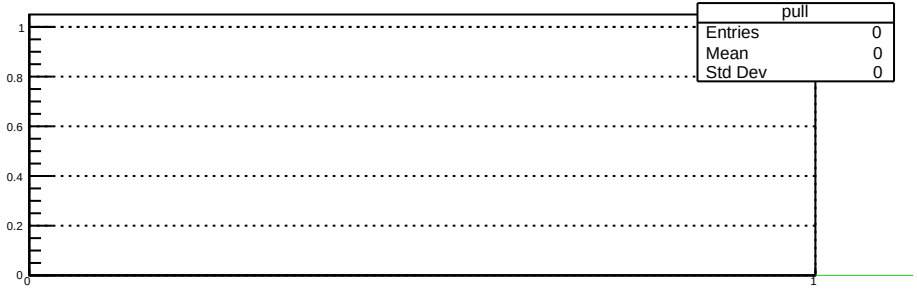
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Std Dev 0
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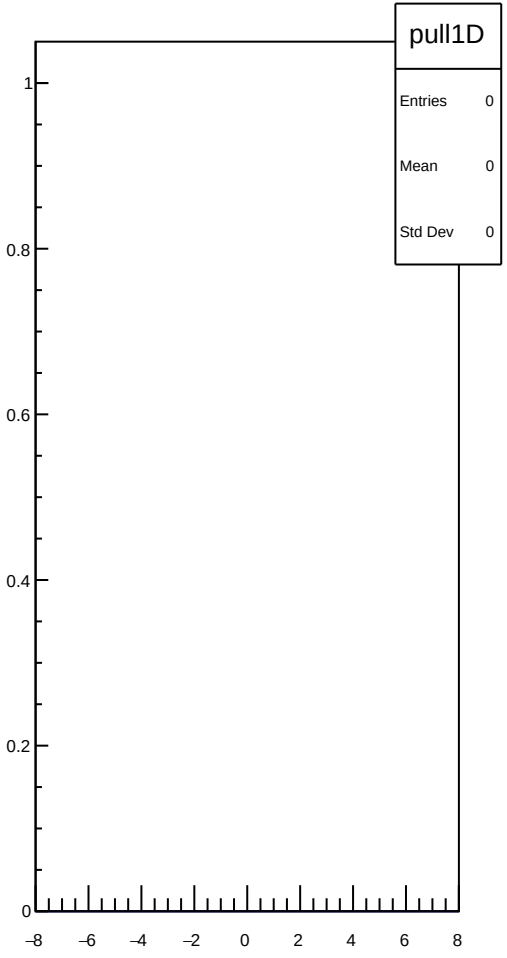
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Std Dev 0
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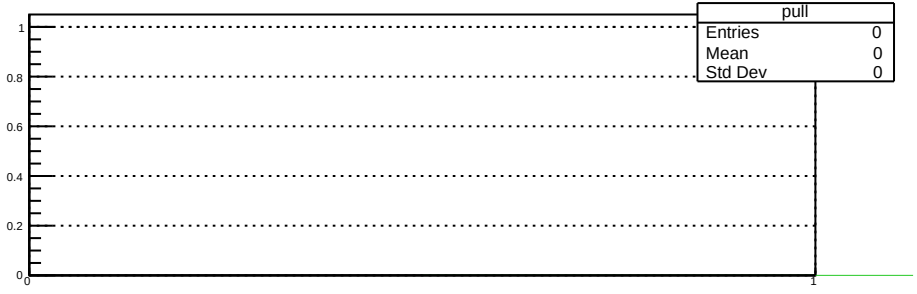
pull
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Std Dev 0
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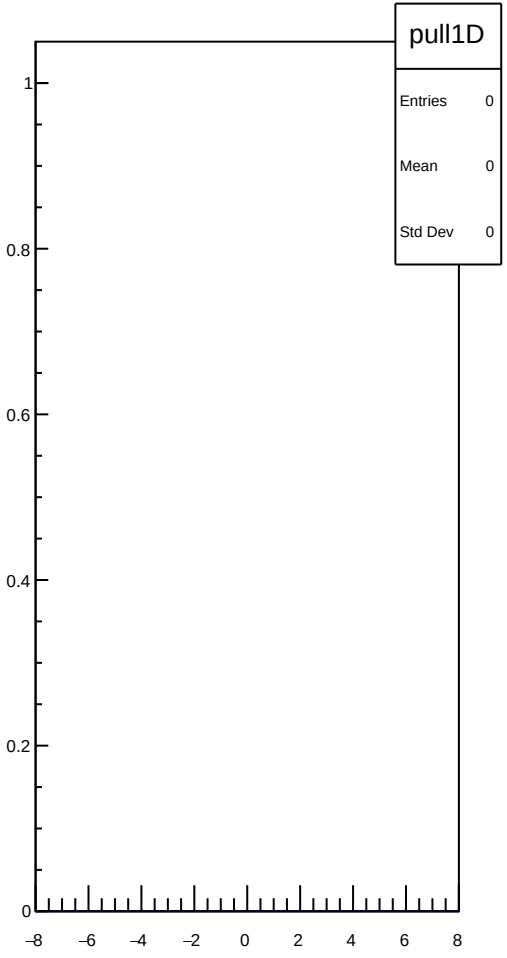
pull1D
Entries 0
Mean 0
Std Dev 0
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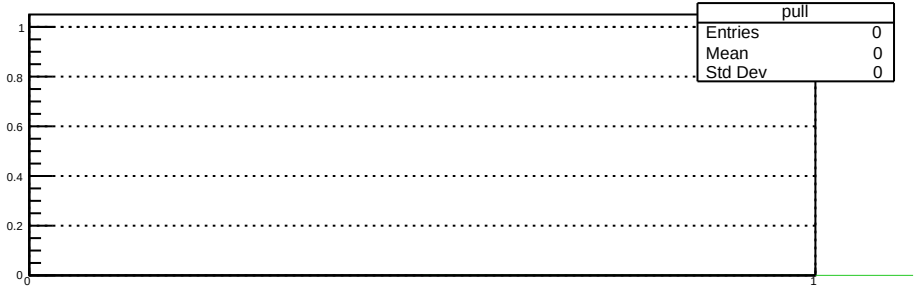
pull
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Mean 0
Std Dev 0
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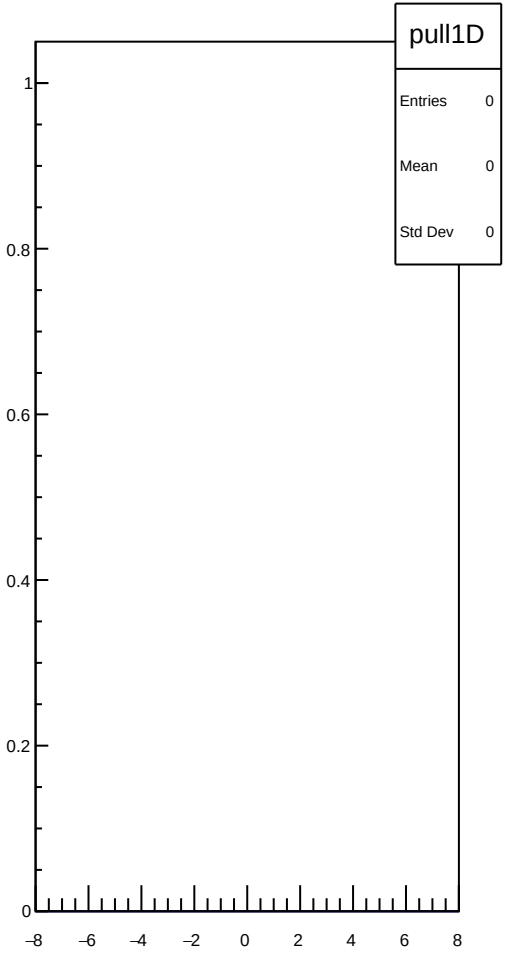
pull1D
Entries 0
Mean 0
Std Dev 0
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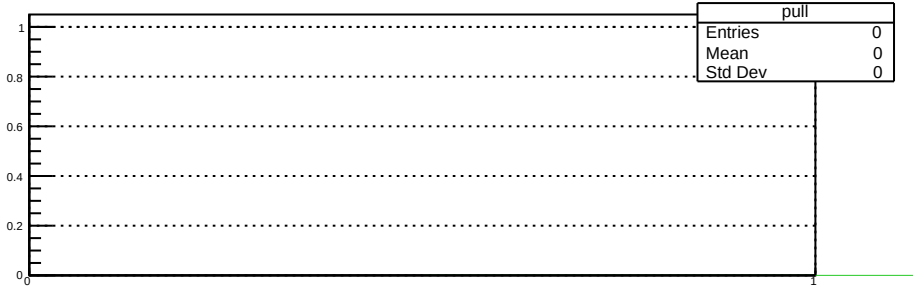
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Std Dev 0
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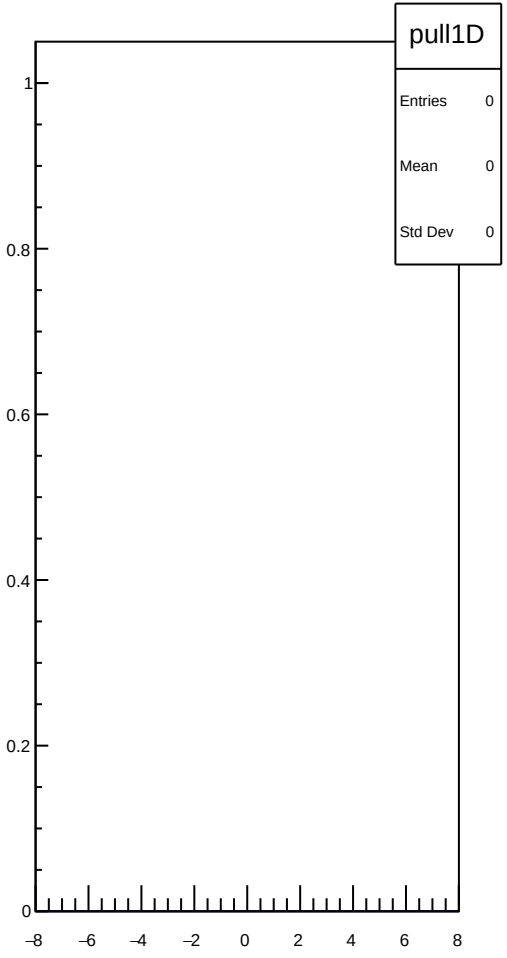
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Std Dev 0
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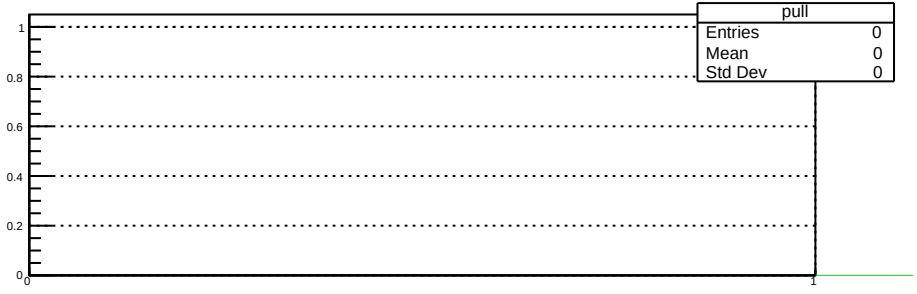
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Std Dev 0
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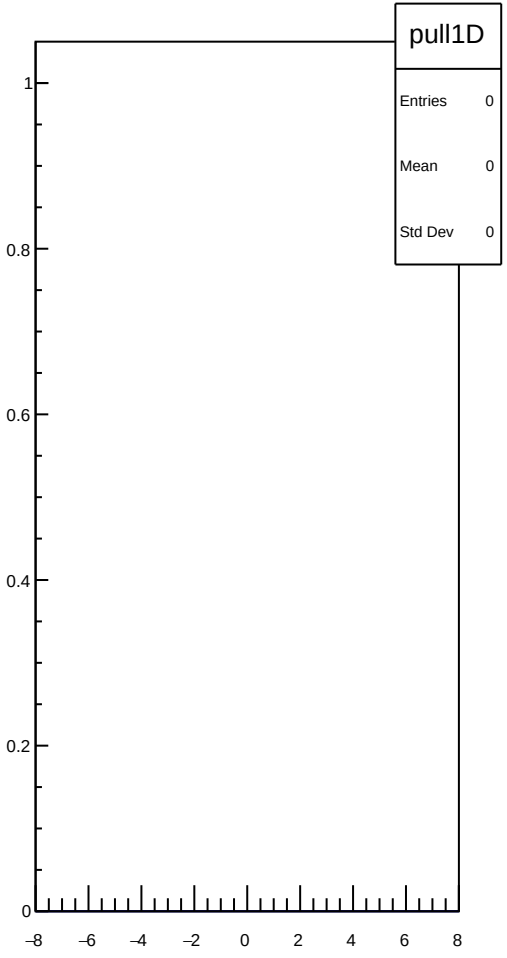
pull1D
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Std Dev 0
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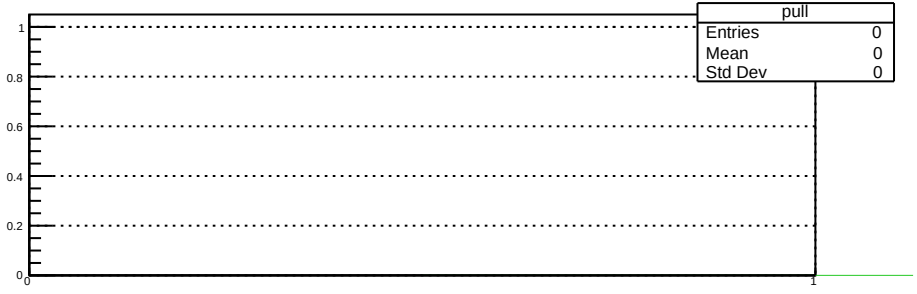
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Std Dev 0
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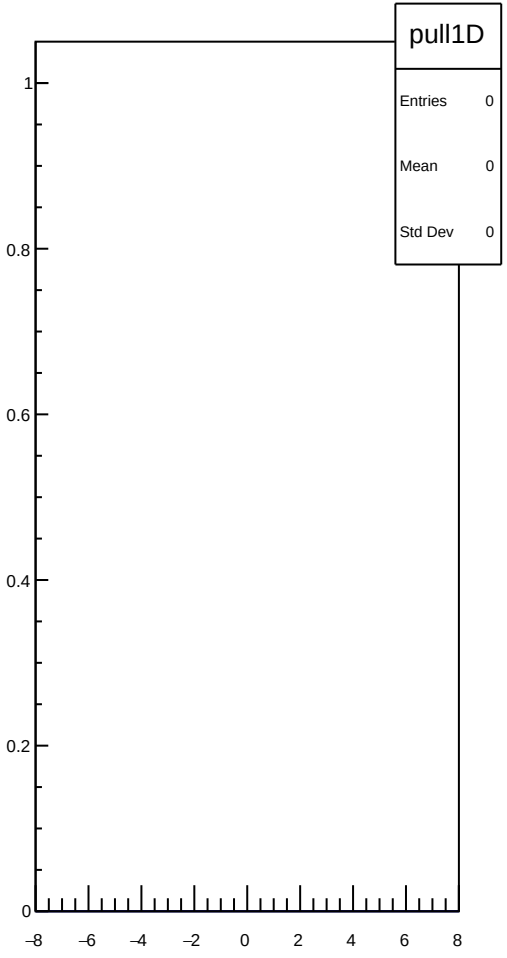
pull1D
Entries 0
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Std Dev 0
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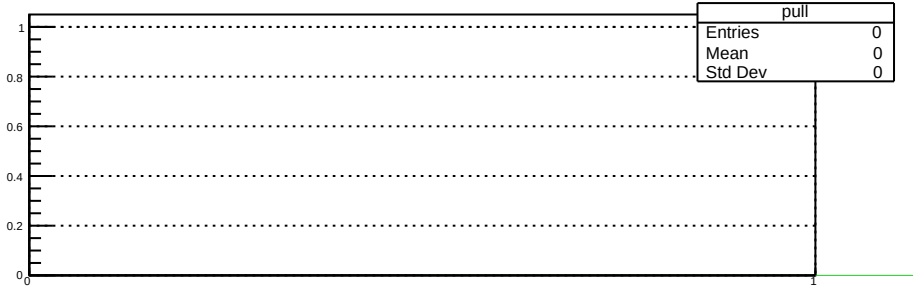
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Std Dev 0
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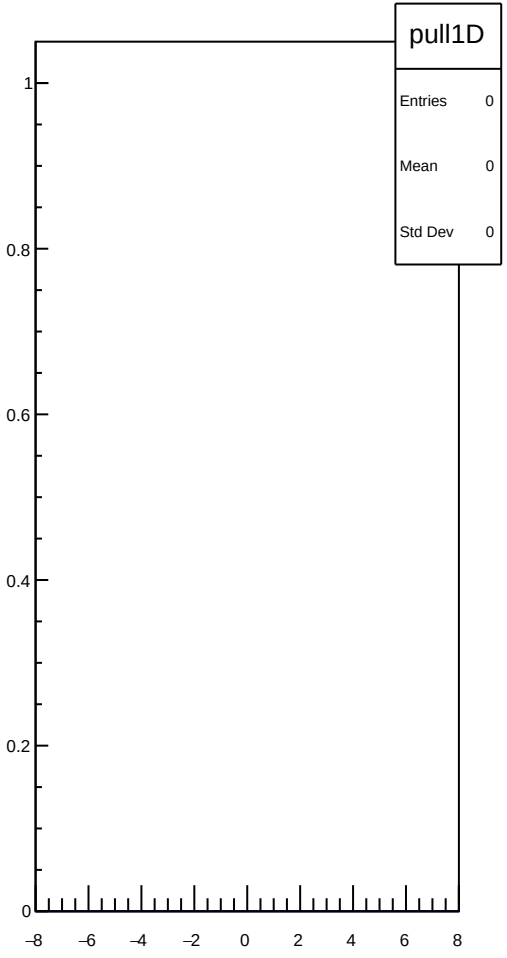
pull1D
Entries 0
Mean 0
Std Dev 0
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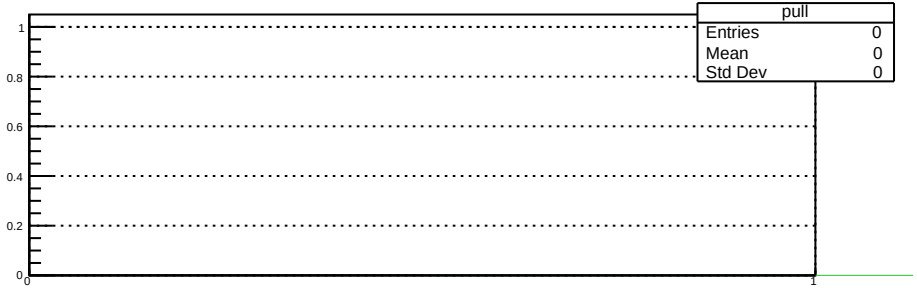
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Mean 0
Std Dev 0
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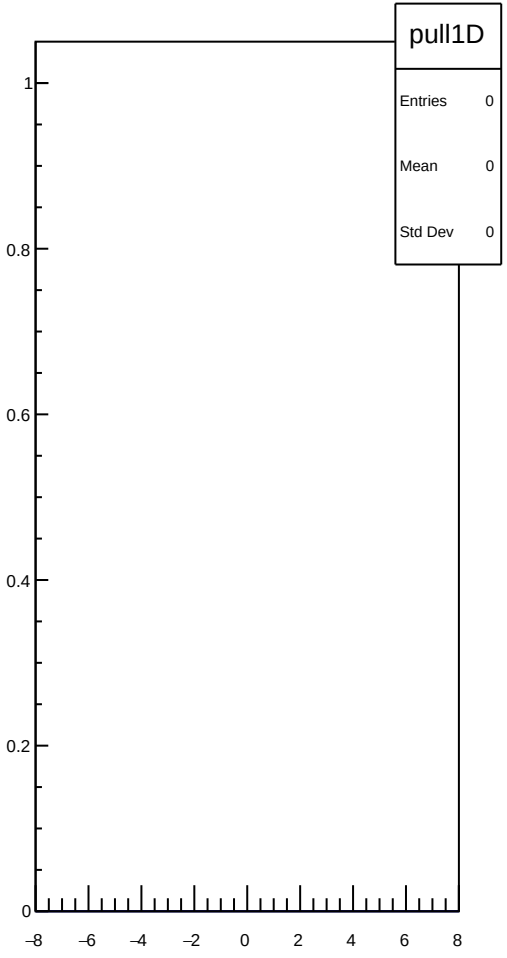
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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0
–8
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6
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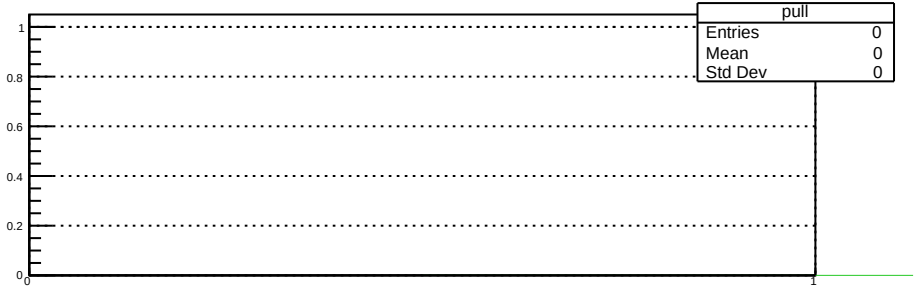
pull
Entries 0
Mean 0
Std Dev 0
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0.6
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0.2
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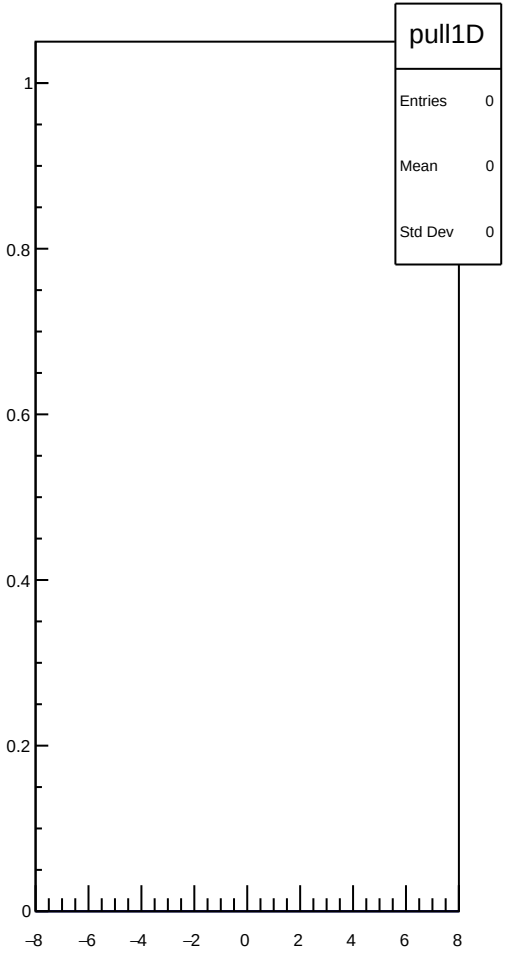
pull1D
Entries 0
Mean 0
Std Dev 0
1
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0.6
0.4
0.2
0
–8
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–4
–2
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2
4
6
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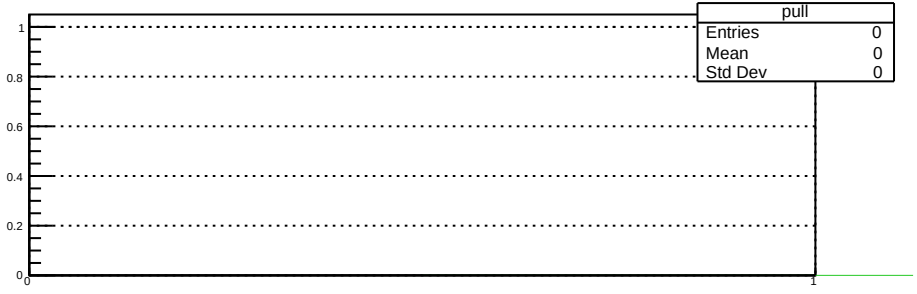
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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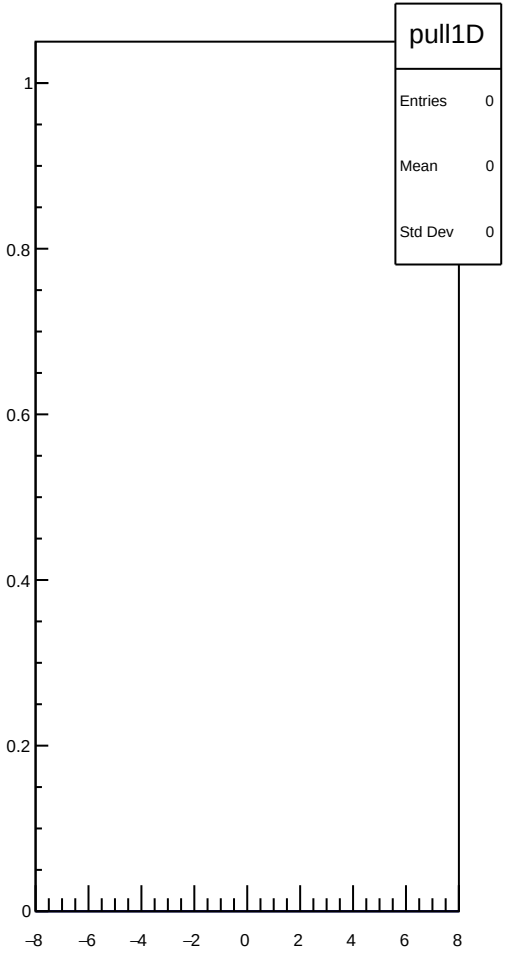
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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6
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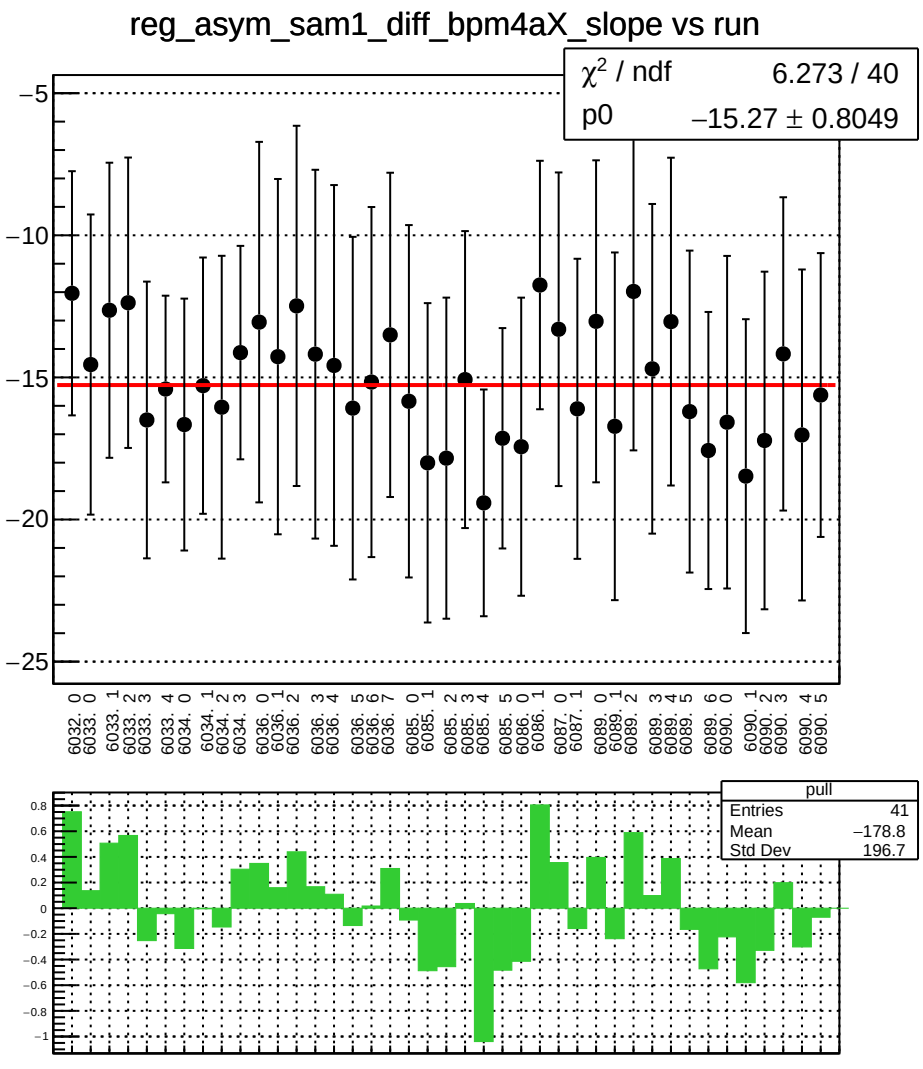
reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 6.273 / 40
p0 −15.27 ± 0.8049
−5
−10
−15
−20
−25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −178.8
Std Dev 196.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.006943
Std Dev 0.3911
14
12
10
8
6
4
2
0
−8
−6
−4
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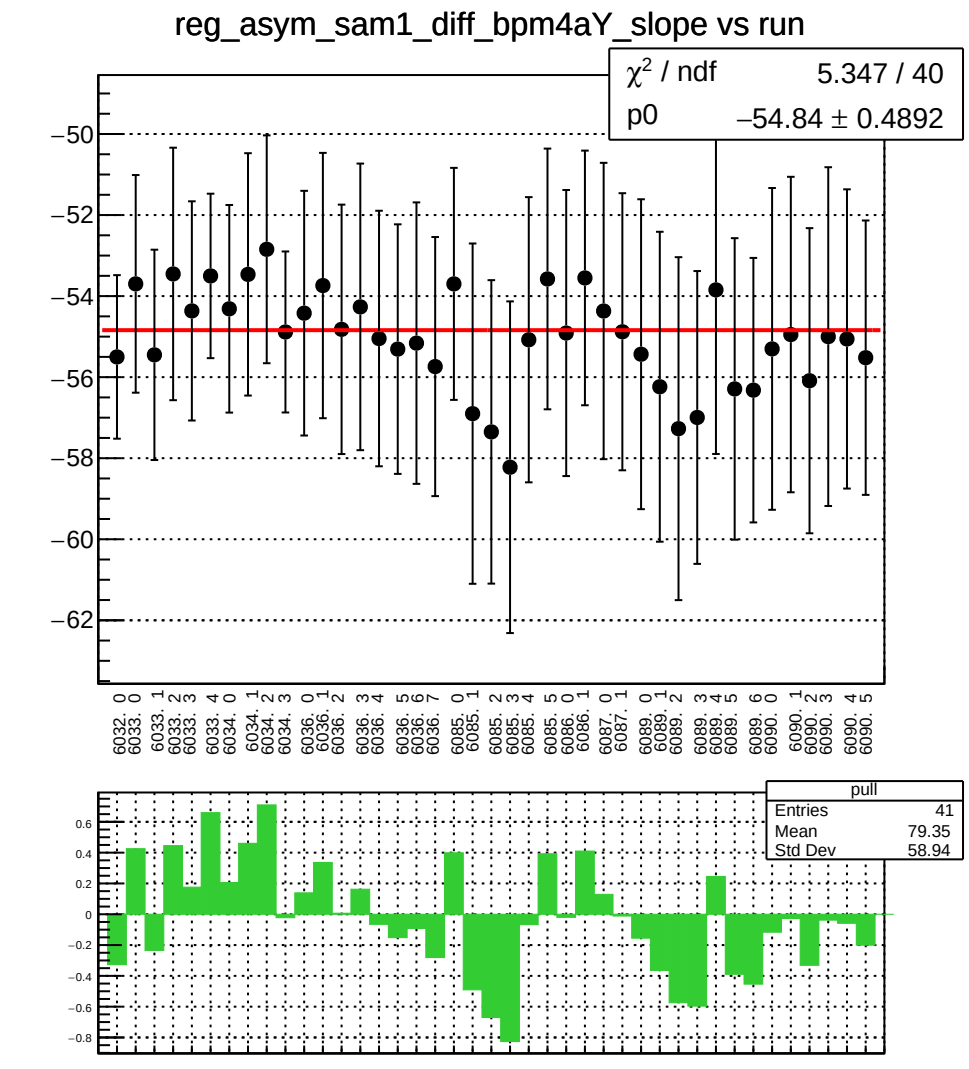
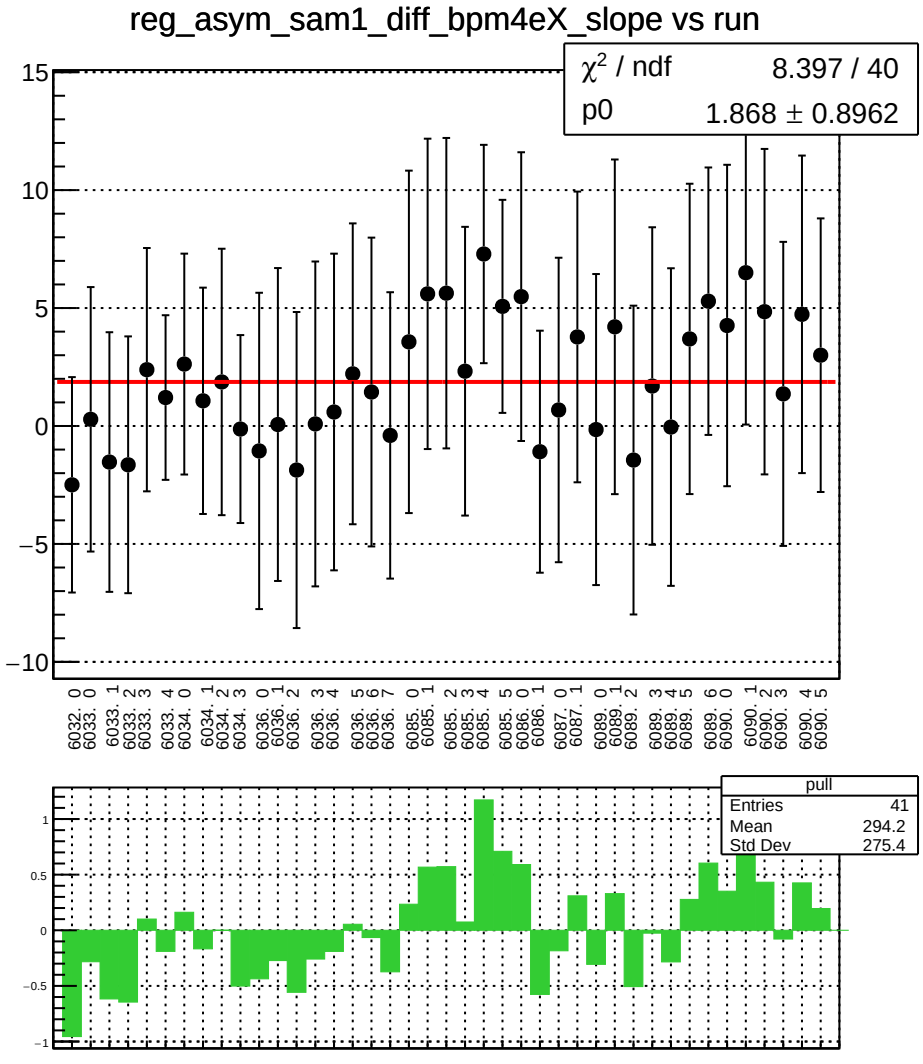
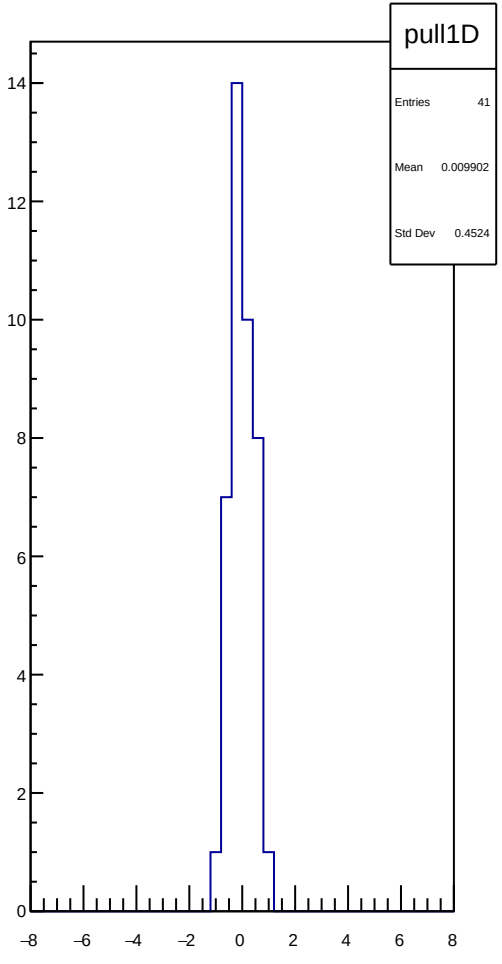
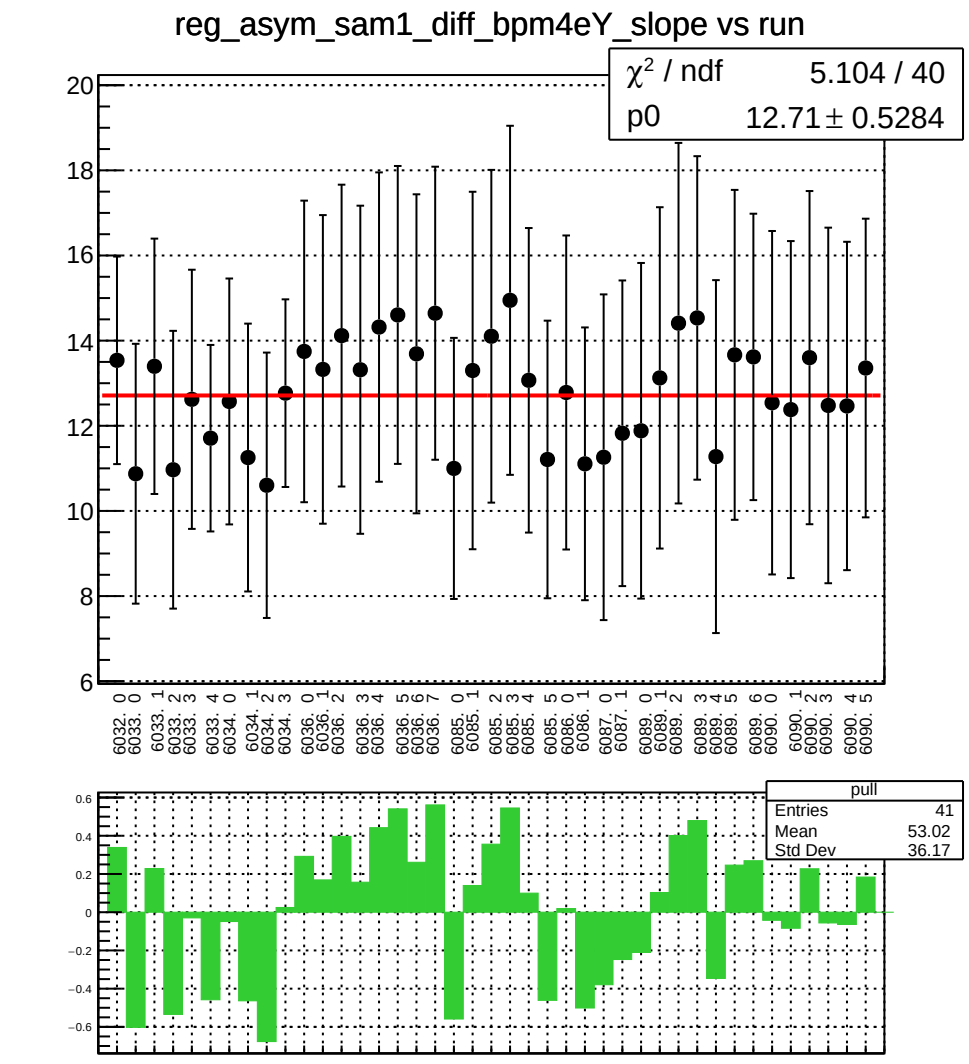
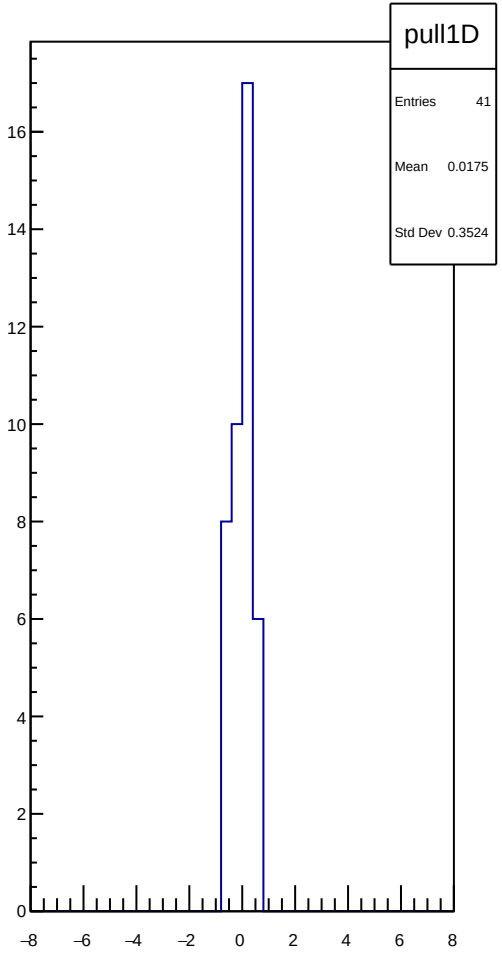
2
4
6
8

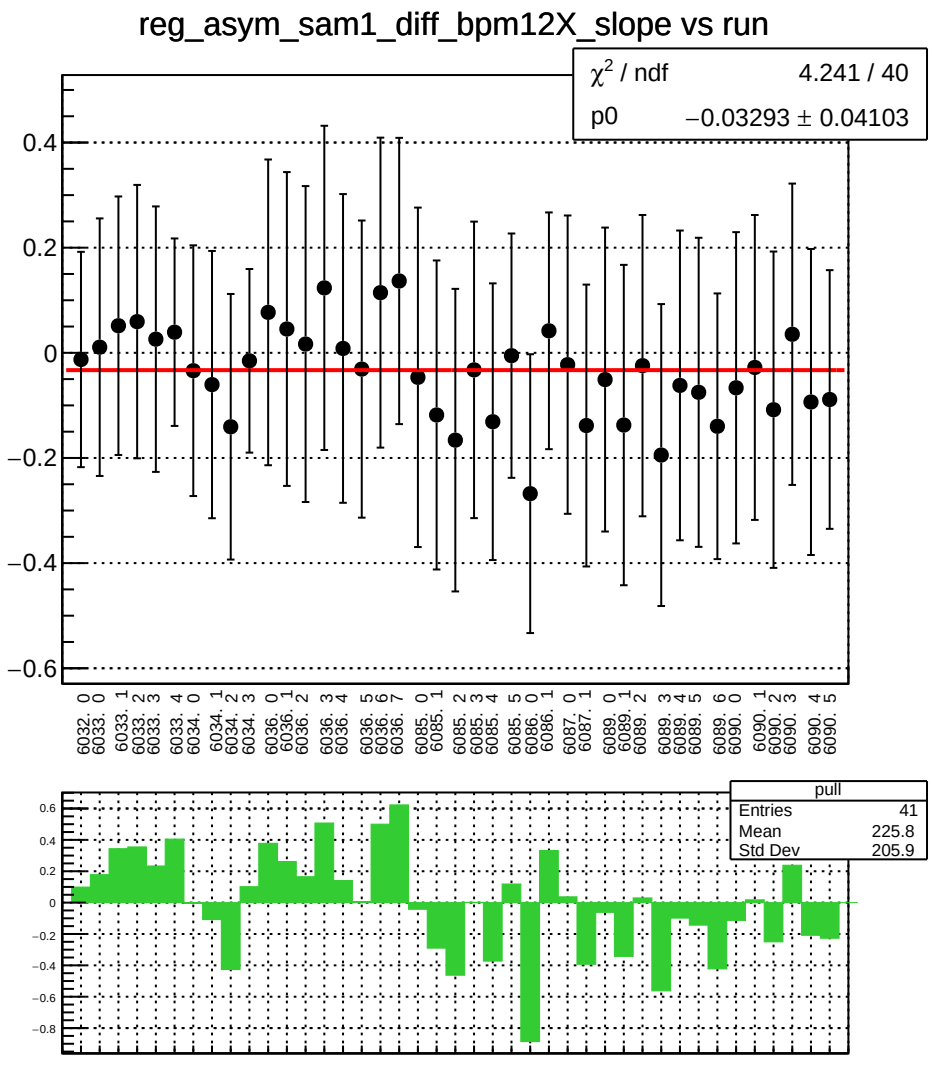

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 5.347 / 40
p0 −54.84 ± 0.4892
−50
−52
−54
−56
−58
−60
−62
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 79.35
Std Dev 58.94
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.03081
Std Dev 0.3598
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

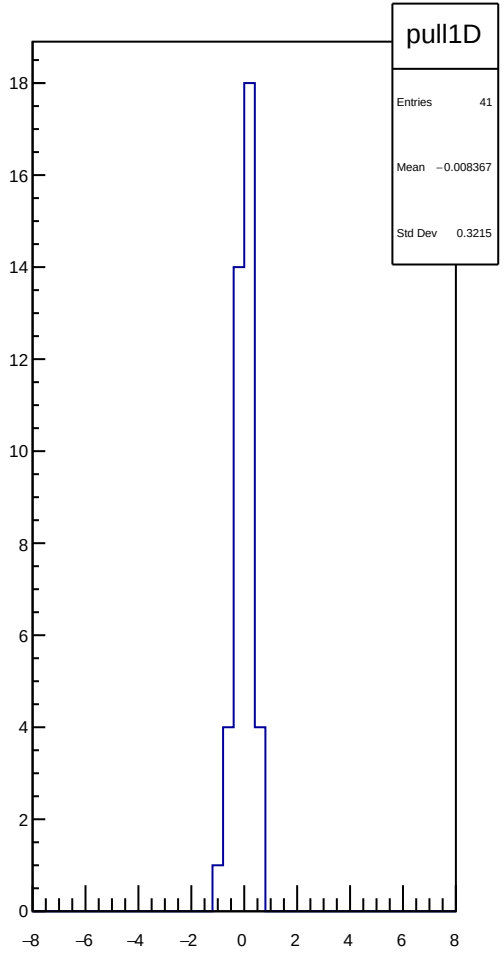

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 8.397 / 40
p0 1.868 ± 0.8962
pull
Entries 41
Mean 294.2
Std Dev 275.4

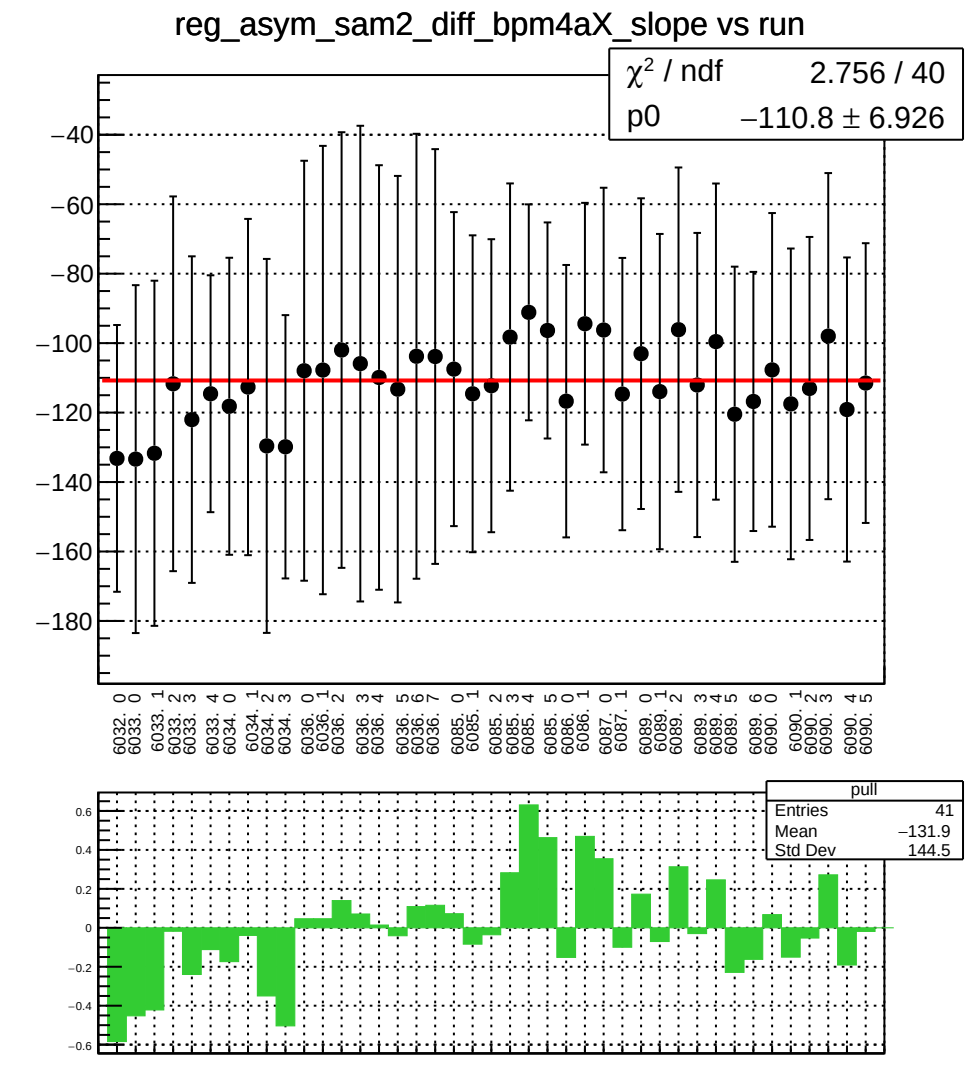

pull1D
Entries 41
Mean 0.009902
Std Dev 0.4524


reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 5.104 / 40
p0 12.71 ± 0.5284
pull
Entries 41
Mean 53.02
Std Dev 36.17


pull1D
Entries 41
Mean 0.0175
Std Dev 0.3524


reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 4.241 / 40
p0 −0.03293 ± 0.04103
pull
Entries 41
Mean 225.8
Std Dev 205.9


pull1D
Entries 41
Mean −0.008367
Std Dev 0.3215


reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 2.756 / 40
p0 −110.8 ± 6.926
−40
−60
−80
−100
−120
−140
−160
−180
6032. 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
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6036. 7
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6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −131.9
Std Dev 144.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.007858
Std Dev 0.2592
18
16
14
12
10
8
6
4
2
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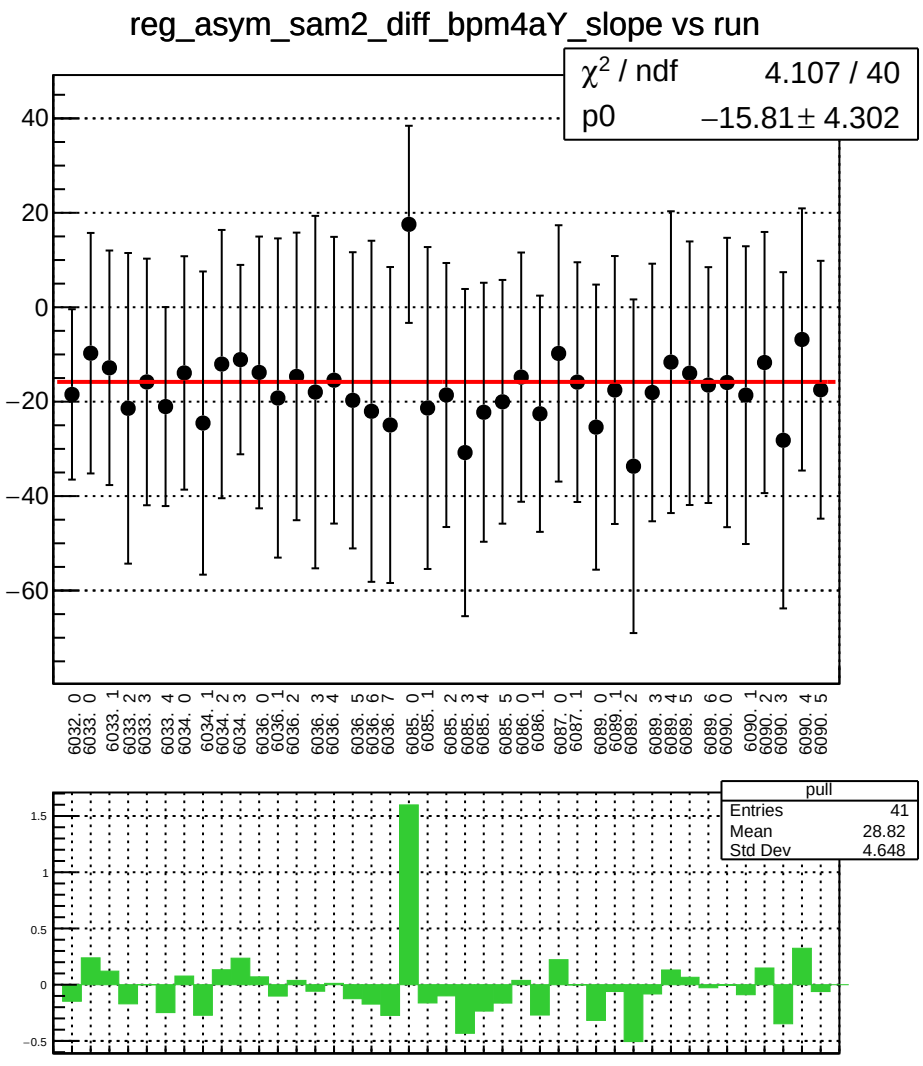
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.107 / 40
p0 −15.81 ± 4.302
40
20
0
−20
−40
−60
6032. 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
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6085. 2
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6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 28.82
Std Dev 4.648
1.5
1
0.5
0
−0.5
pull1D
Entries 41
Mean −0.02368
Std Dev 0.3156
25
20
15
10
5
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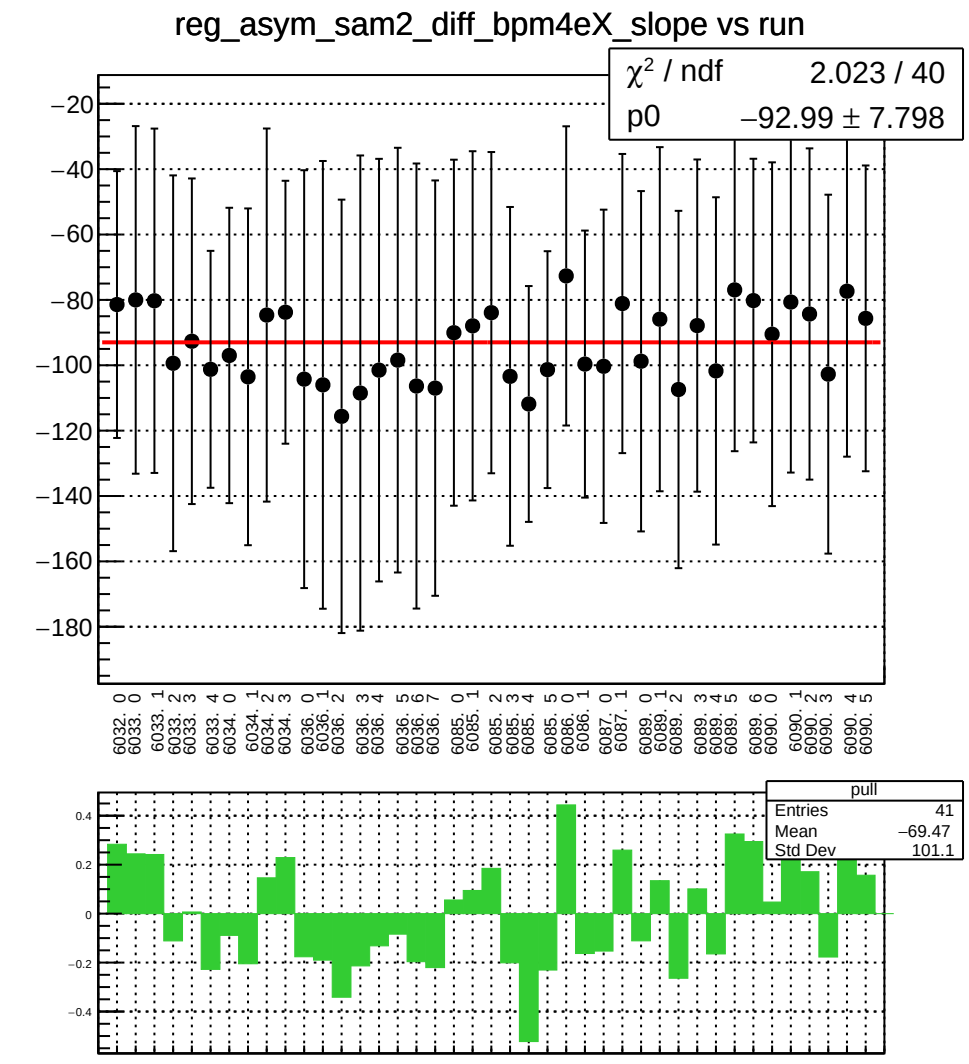
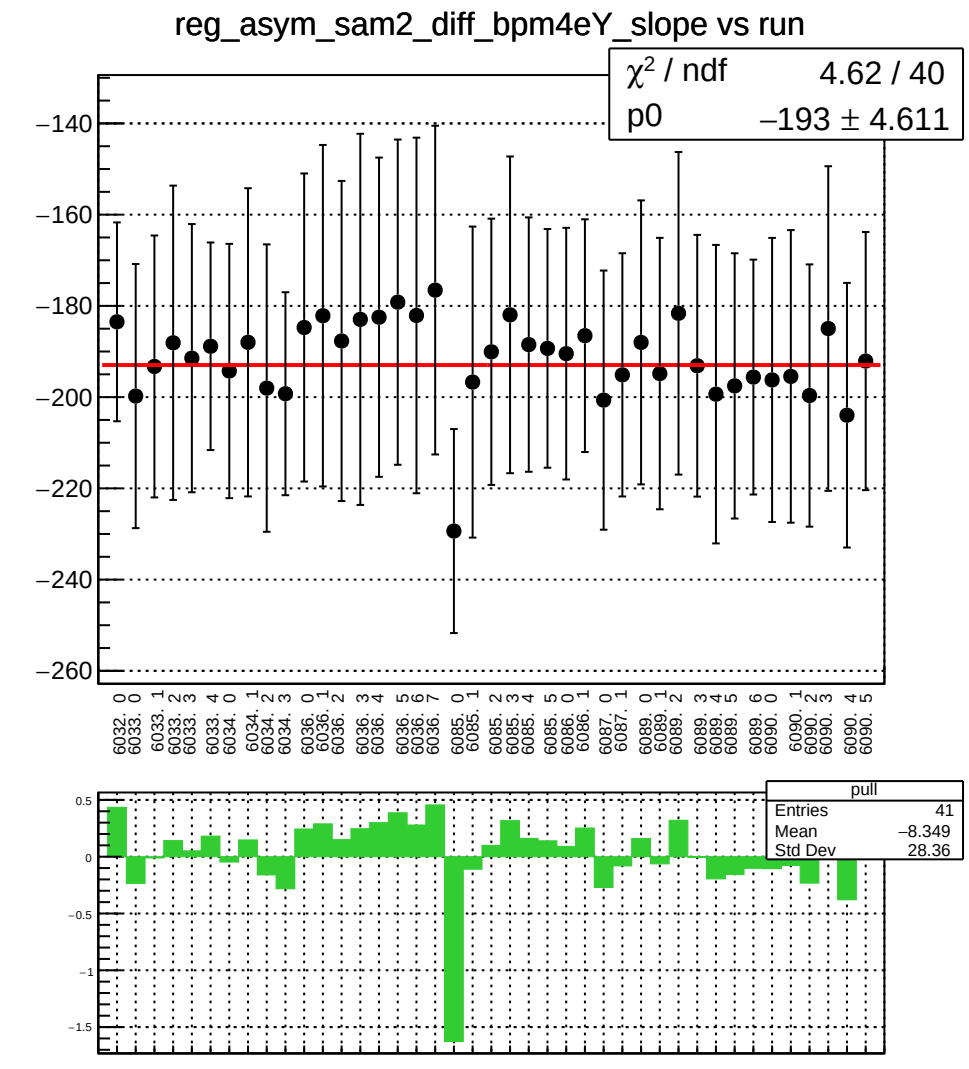
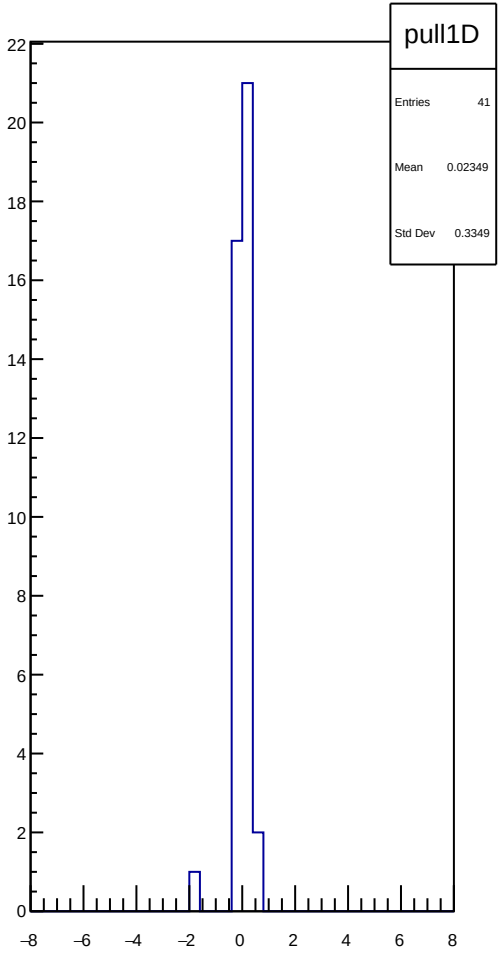
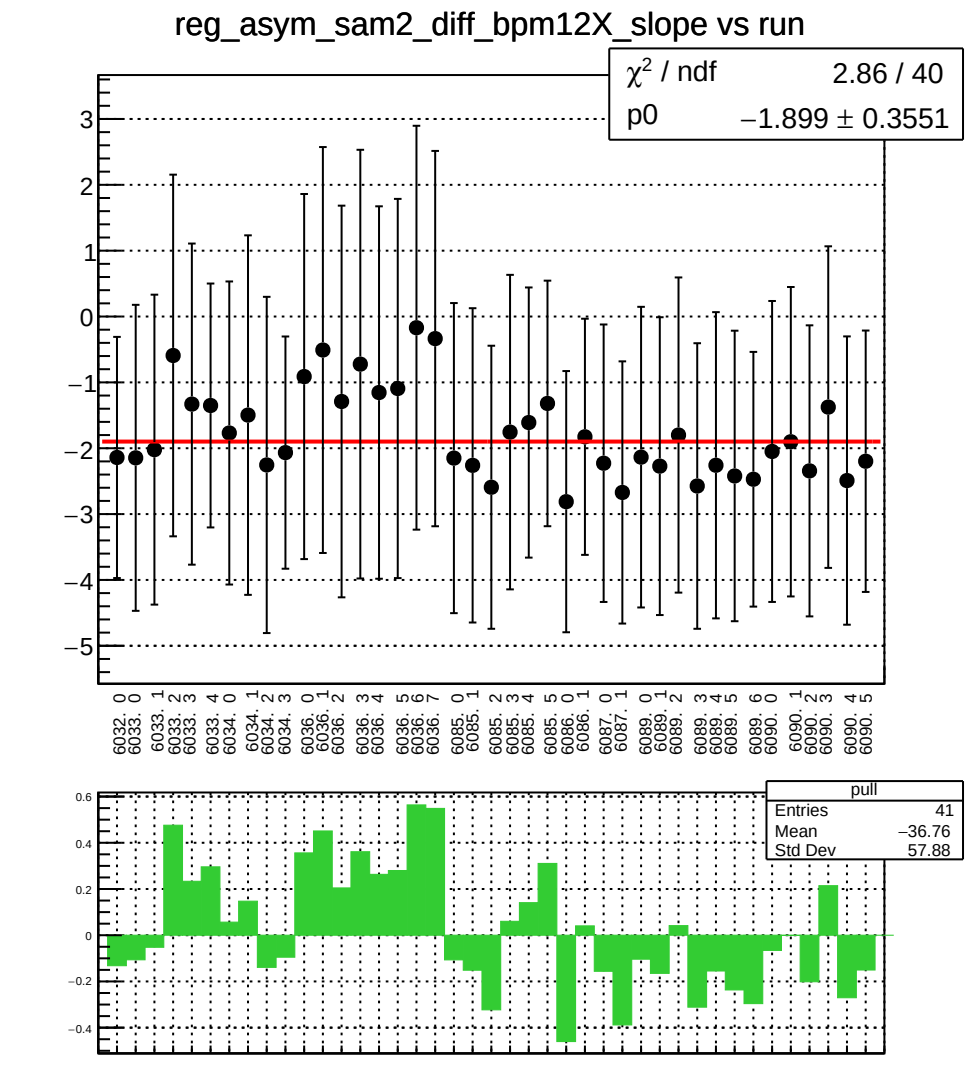
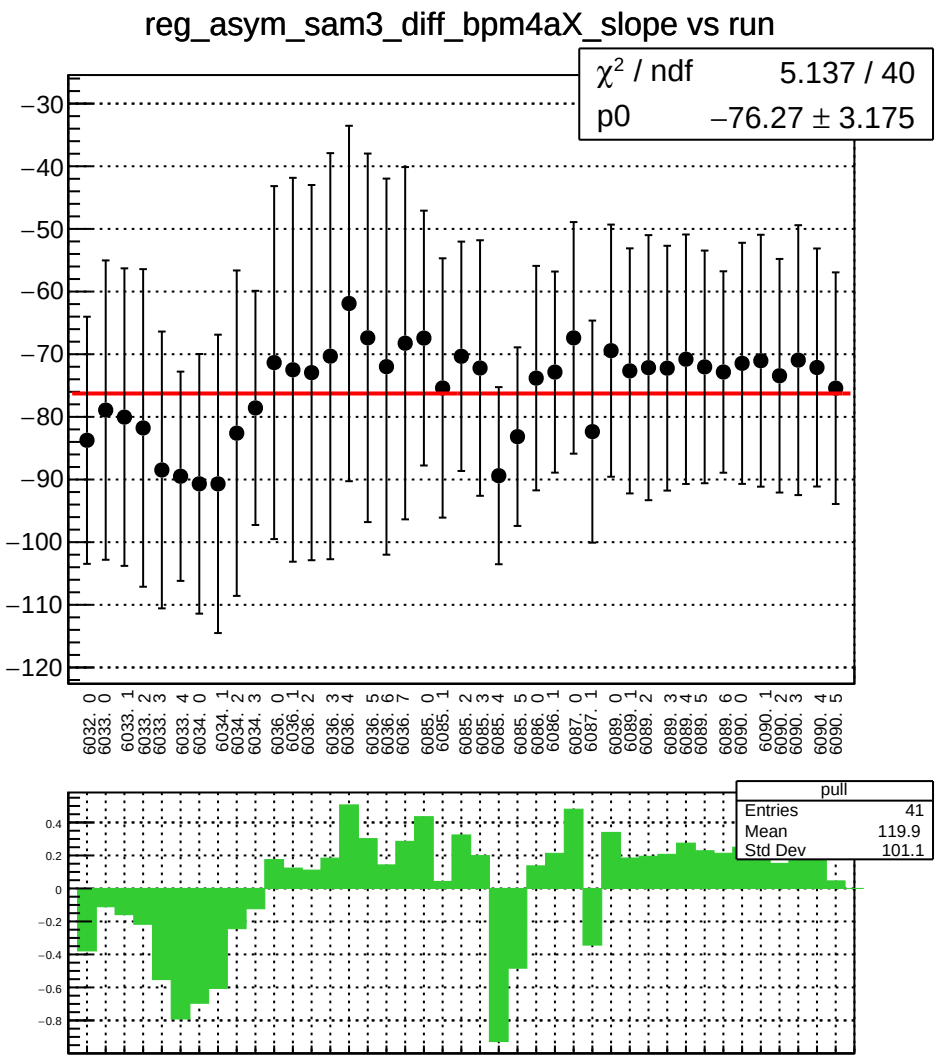
−8
−6
−4
−2
0
2
4
6
8

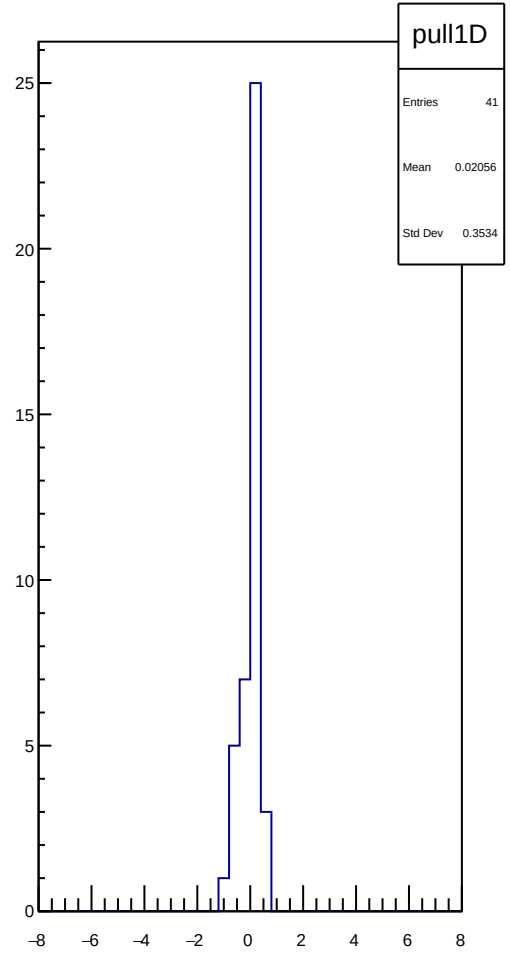

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.023 / 40
p0 −92.99 ± 7.798
−20
−40
−60
−80
−100
−120
−140
−160
−180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −69.47
Std Dev 101.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean −0.005052
Std Dev 0.2221
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

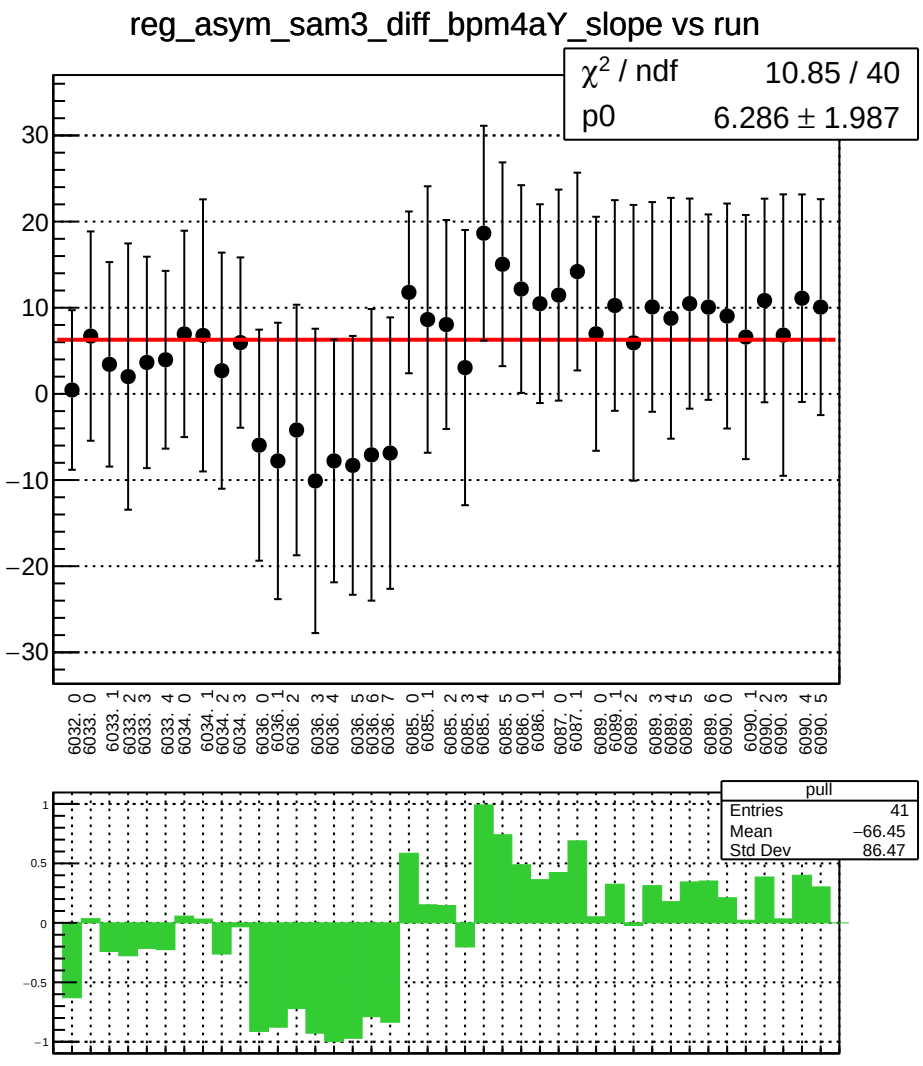

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.62 / 40
p0 −193 ± 4.611
−140
−160
−180
−200
−220
−240
−260
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −8.349
Std Dev 28.36
0.5
0
−0.5
−1
−1.5

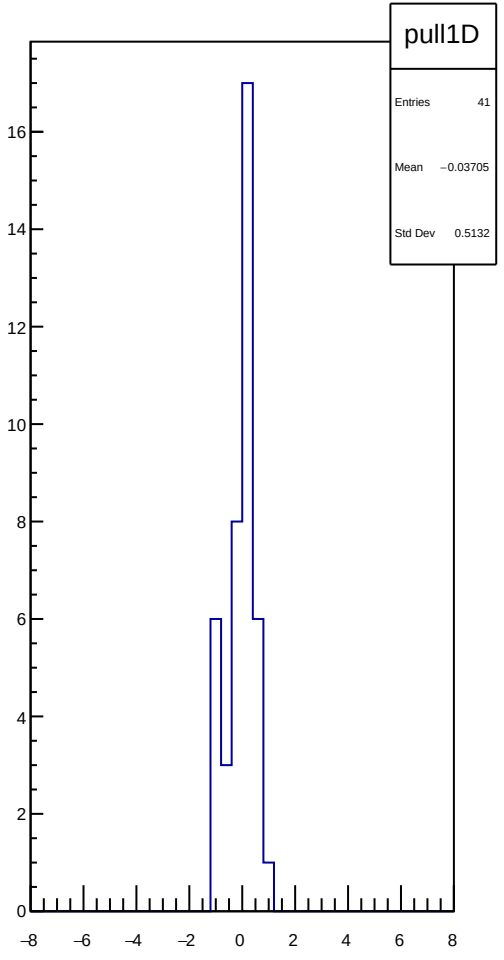

pull1D
Entries 41
Mean 0.02349
Std Dev 0.3349
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

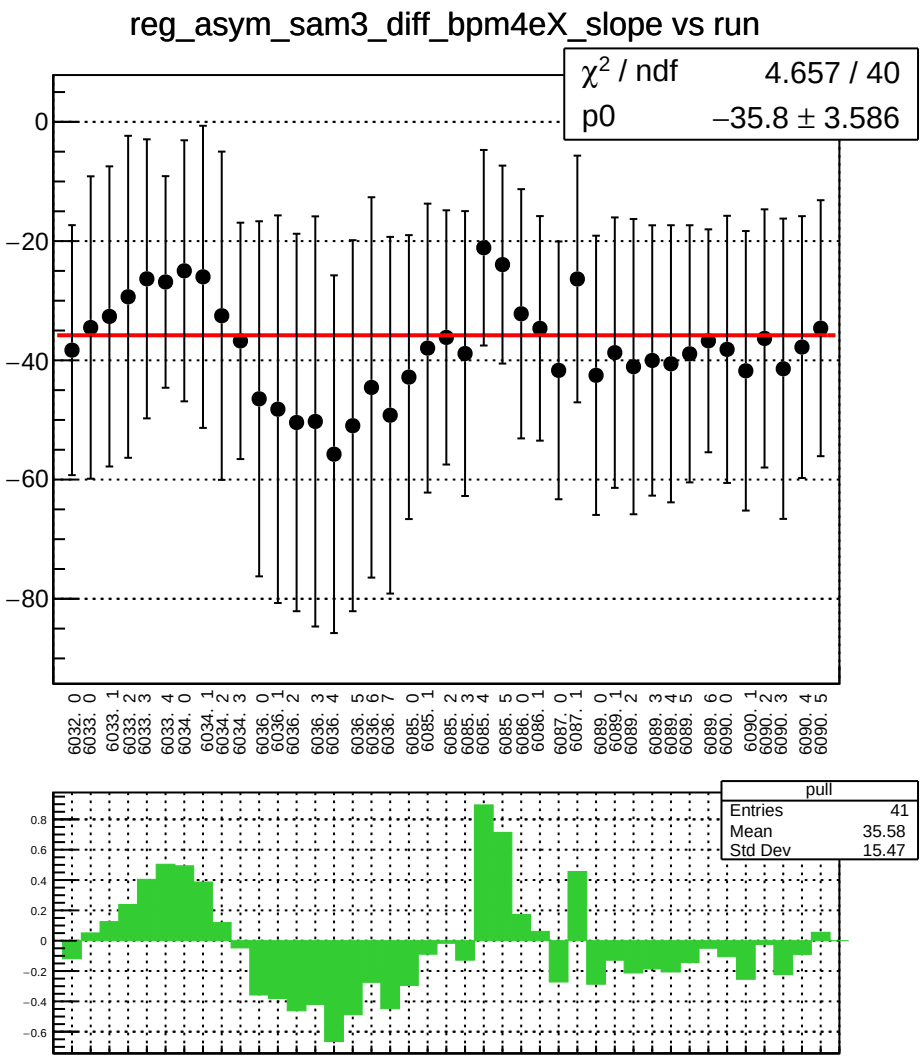

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.86 / 40
p0 −1.899 ± 0.3551
pull
Entries 41
Mean −36.76
Std Dev 57.88
pull1D
Entries 41
Mean 0.0239
Std Dev 0.263

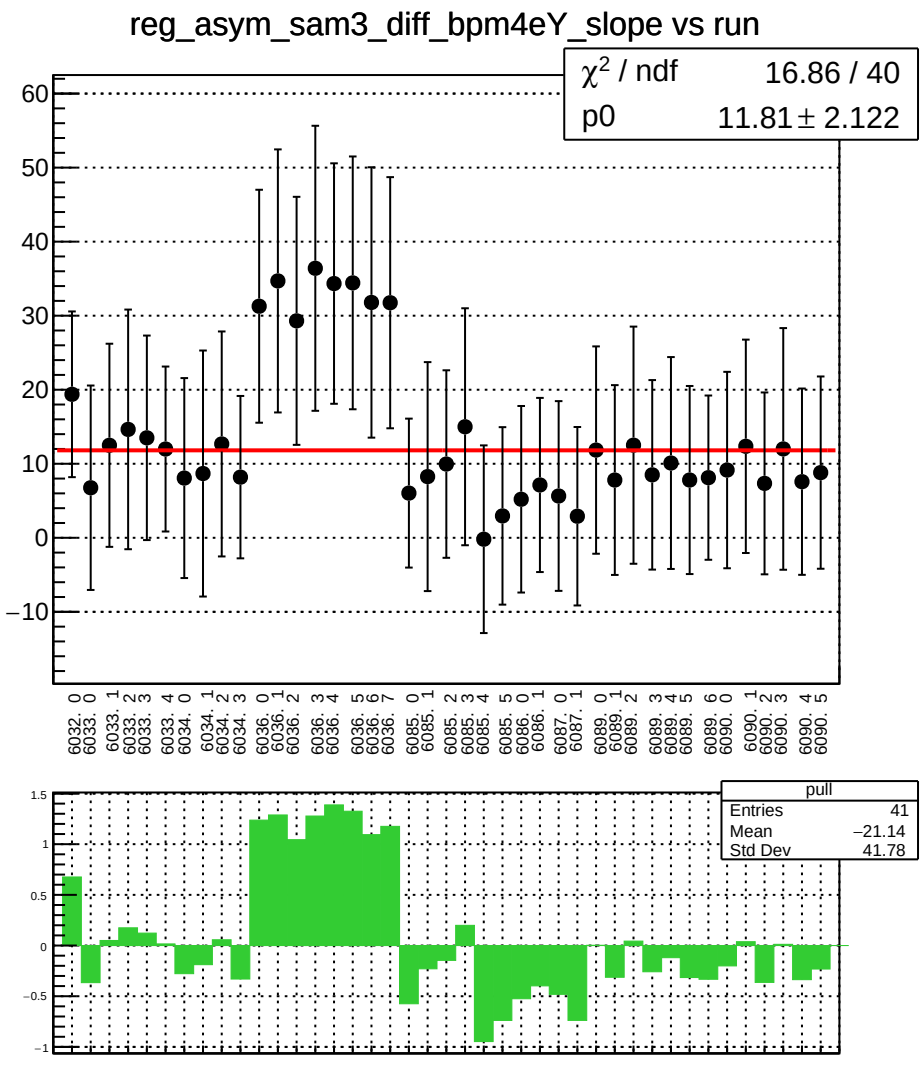

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 5.137 / 40
p0 −76.27 ± 3.175
pull
Entries 41
Mean 119.9
Std Dev 101.1

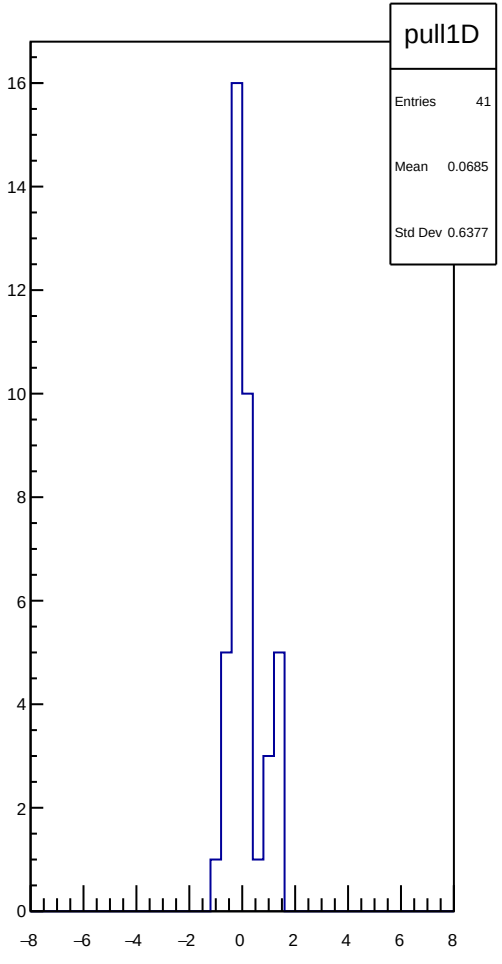

pull1D
Entries 41
Mean 0.02056
Std Dev 0.3534

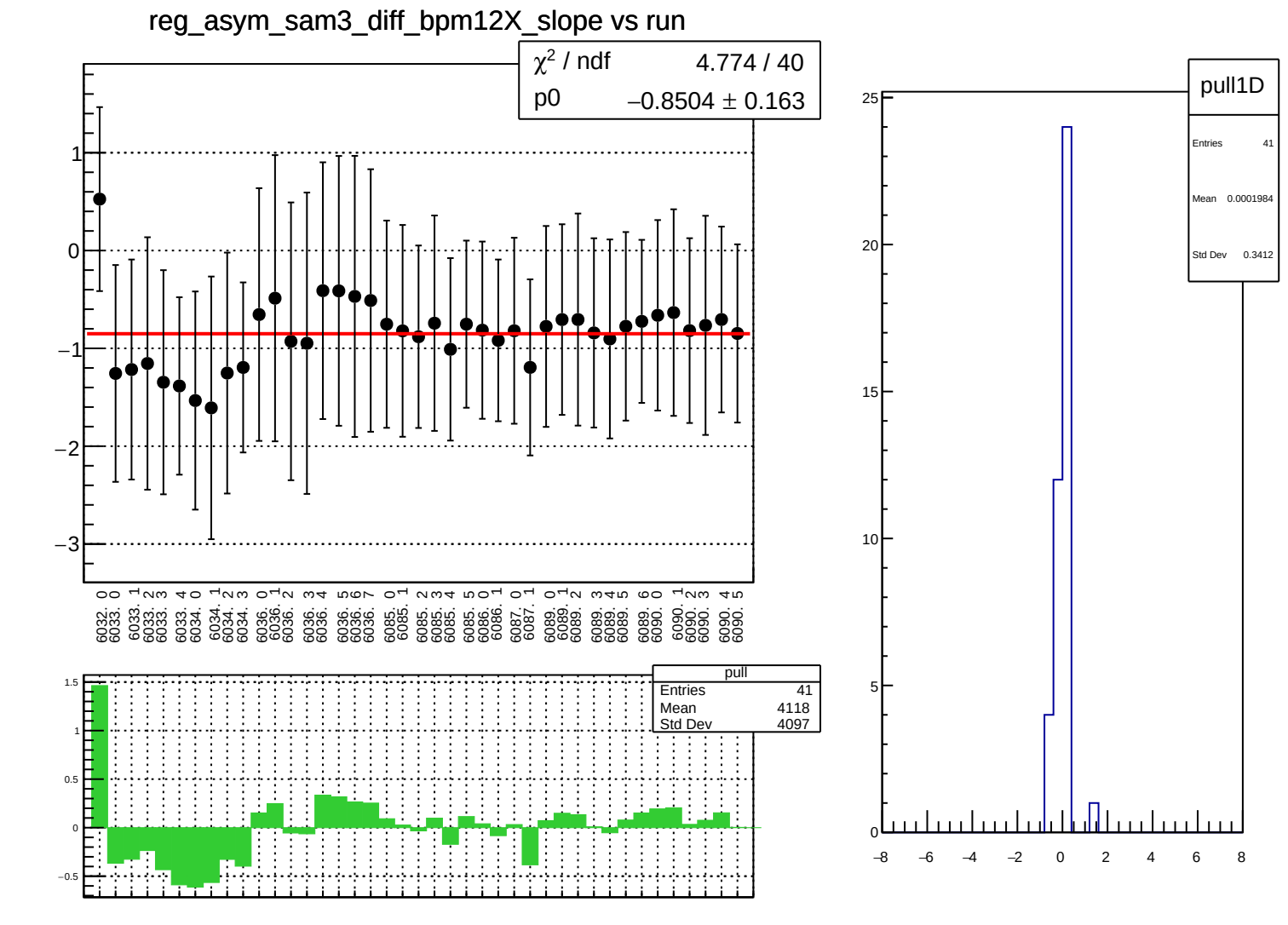

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 10.85 / 40
p0 6.286 ± 1.987
pull
Entries 41
Mean −66.45
Std Dev 86.47

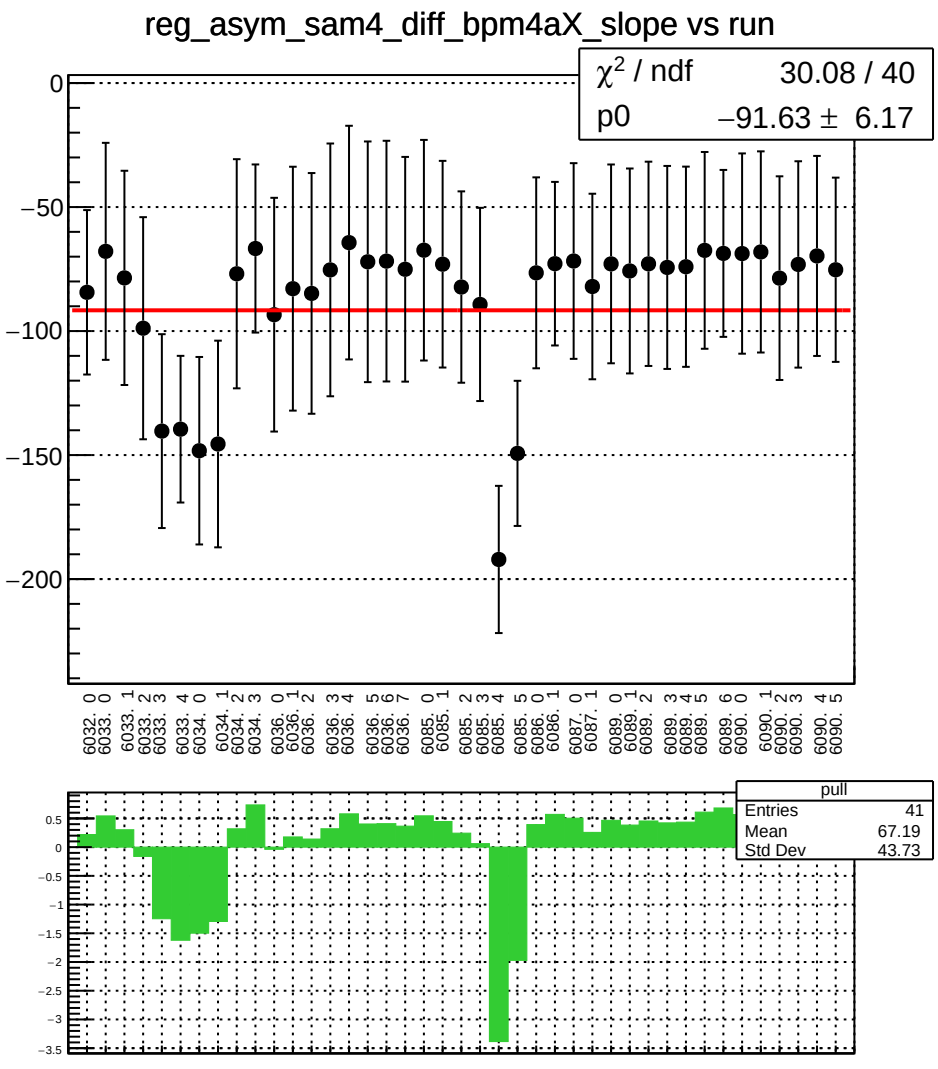

pull1D
Entries 41
Mean −0.03705
Std Dev 0.5132

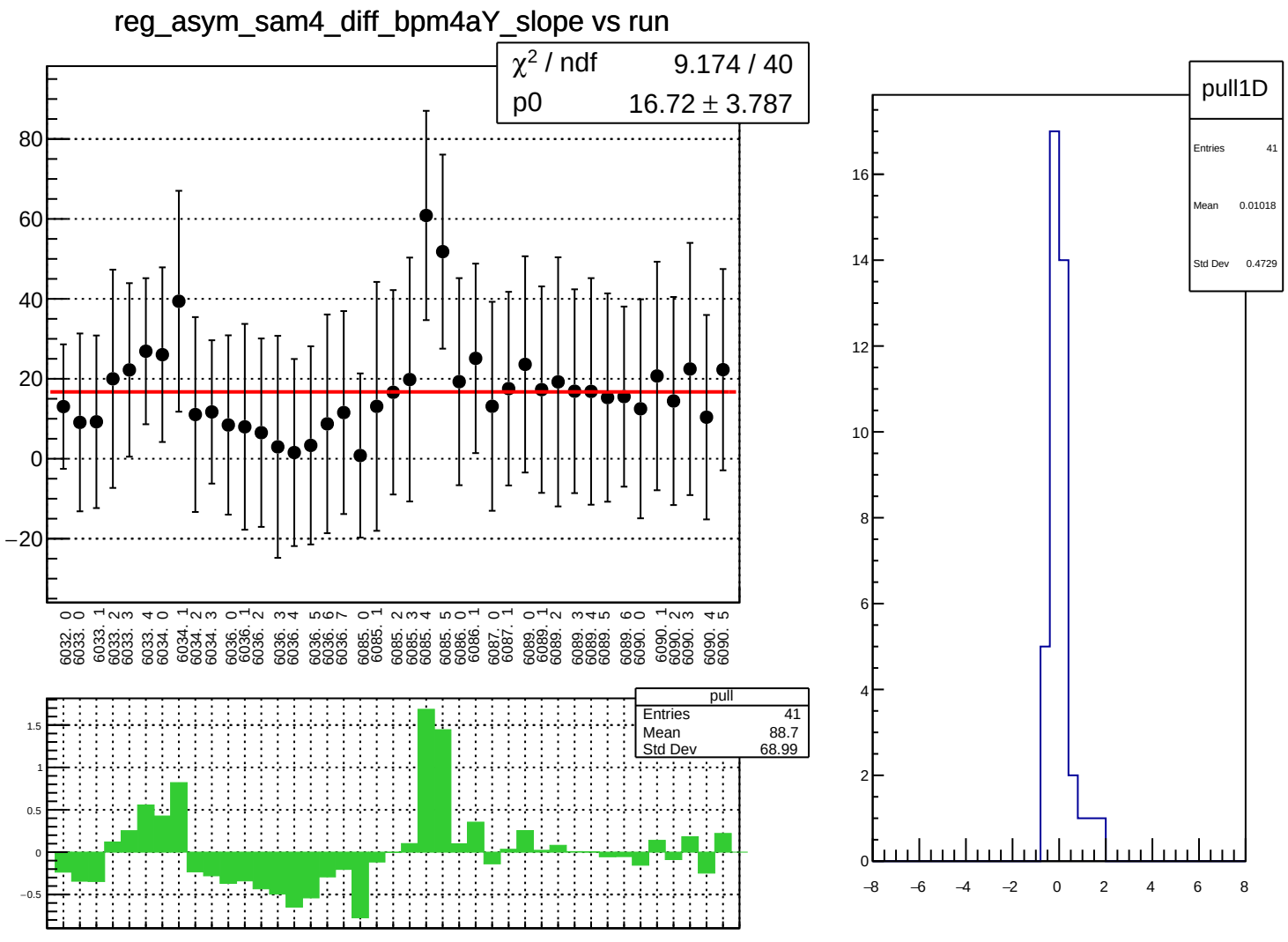

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 4.657 / 40
p0 −35.8 ± 3.586
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 35.58
Std Dev 15.47
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.04139
Std Dev 0.3345
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

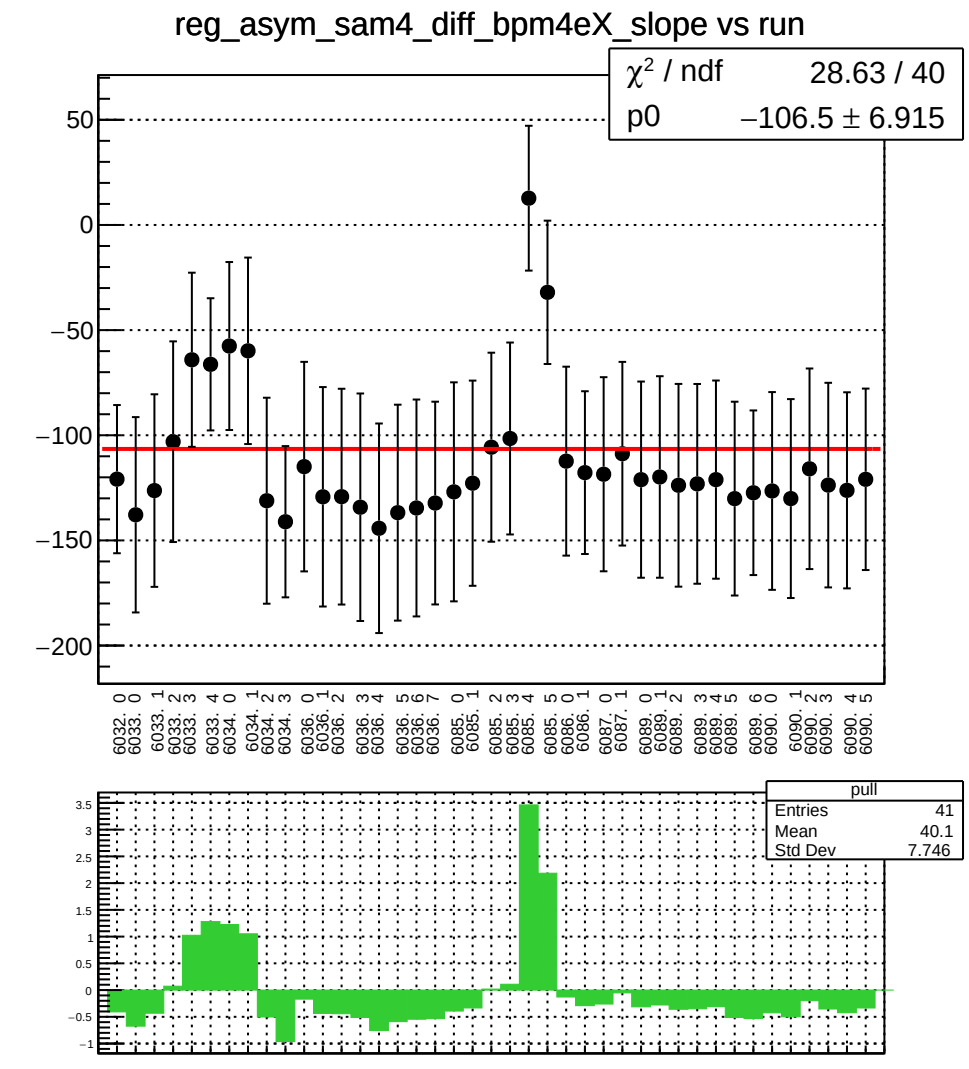

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 16.86 / 40
p0 11.81 ± 2.122
pull
Entries 41
Mean −21.14
Std Dev 41.78

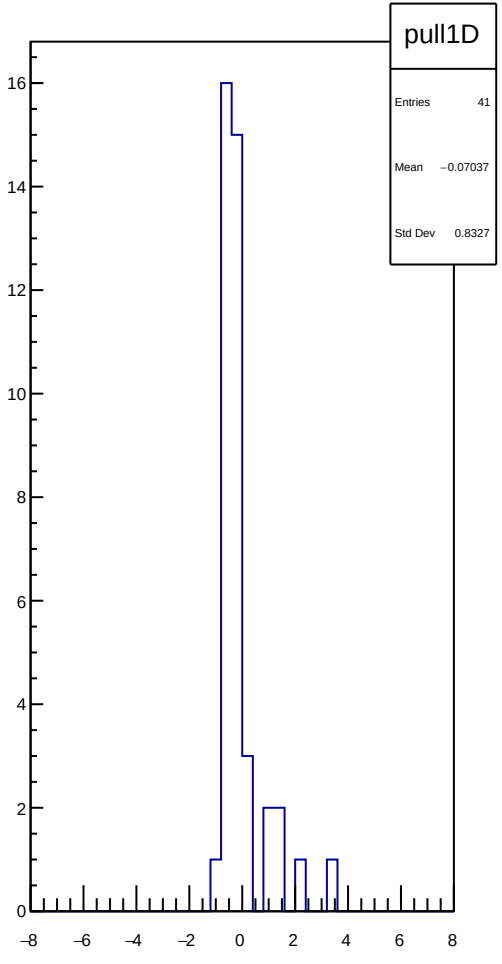

pull1D
Entries 41
Mean 0.0685
Std Dev 0.6377

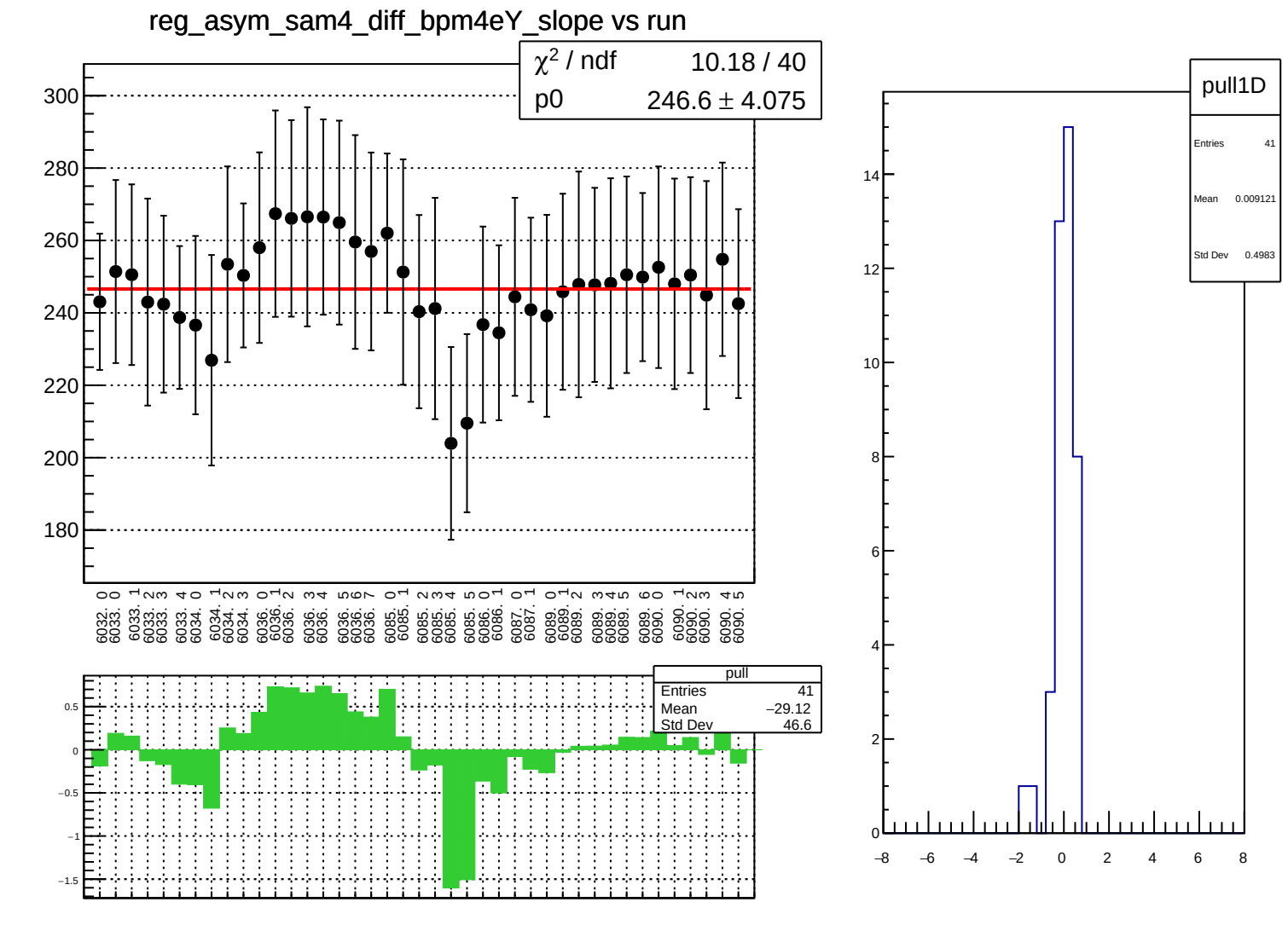

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.774 / 40
p0 −0.8504 ± 0.163
pull
Entries 41
Mean 4118
Std Dev 4097
pull1D
Entries 41
Mean 0.0001984
Std Dev 0.3412

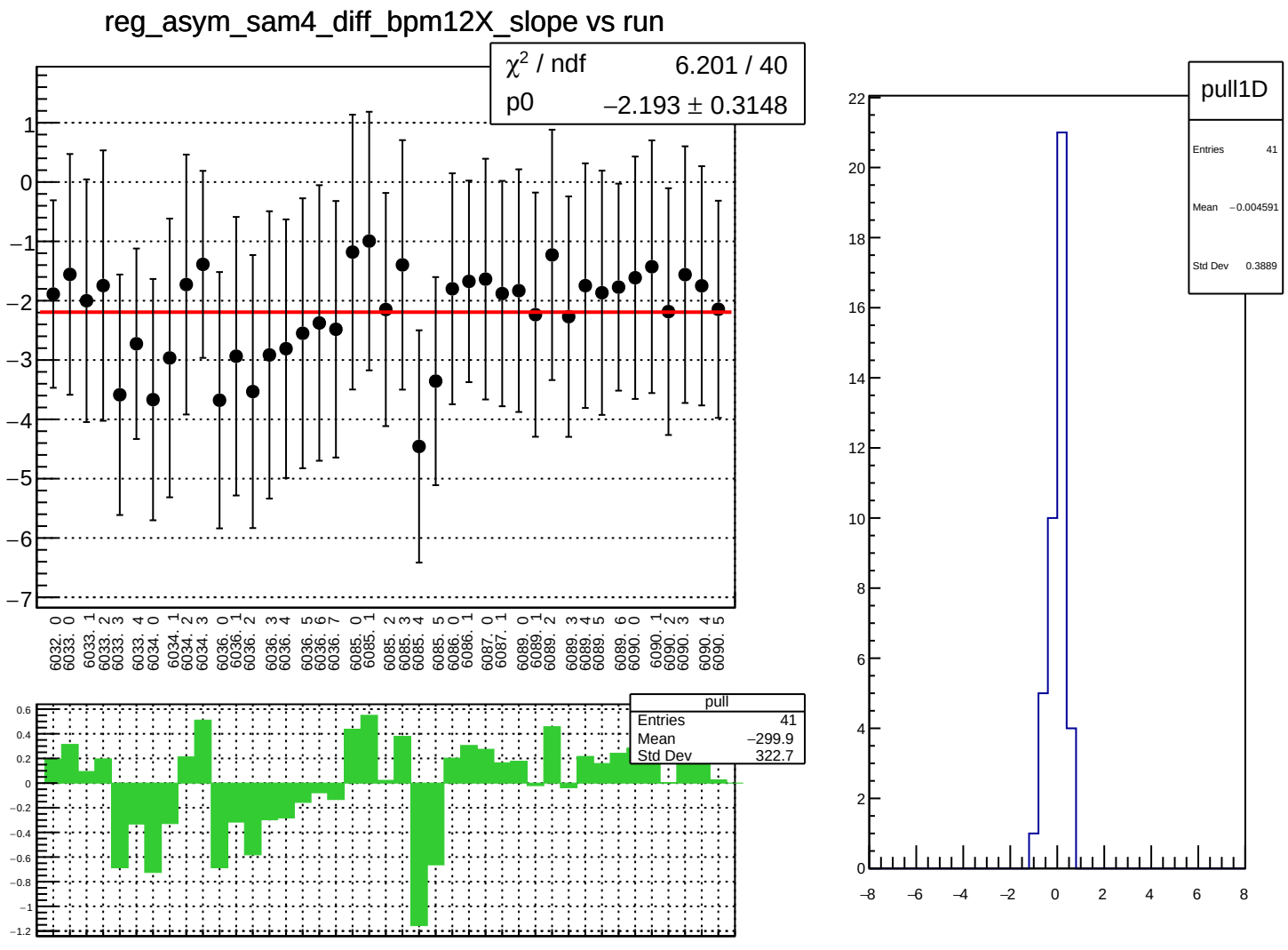

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 30.08 / 40
p0 −91.63 ± 6.17
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 67.19
Std Dev 43.73
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 41
Mean 0.06497
Std Dev 0.854
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

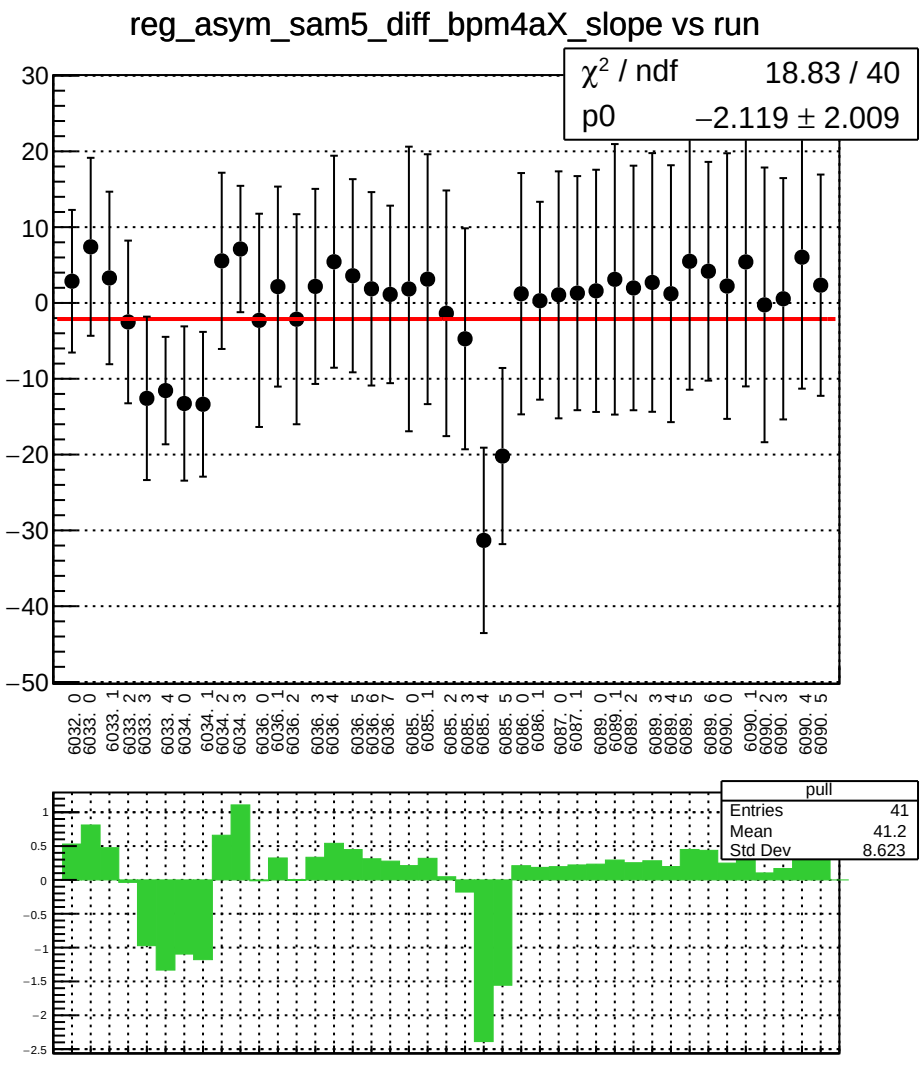

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 9.174 / 40
p0 16.72 ± 3.787
80
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 88.7
Std Dev 68.99
1.5
1
0.5
0
−0.5
pull1D
Entries 41
Mean 0.01018
Std Dev 0.4729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

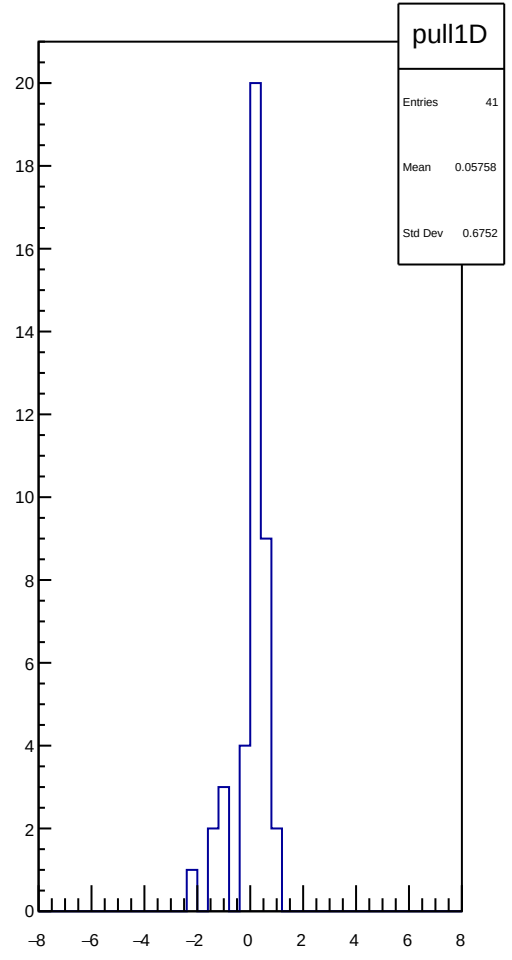

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 28.63 / 40
p0 −106.5 ± 6.915
pull
Entries 41
Mean 40.1
Std Dev 7.746

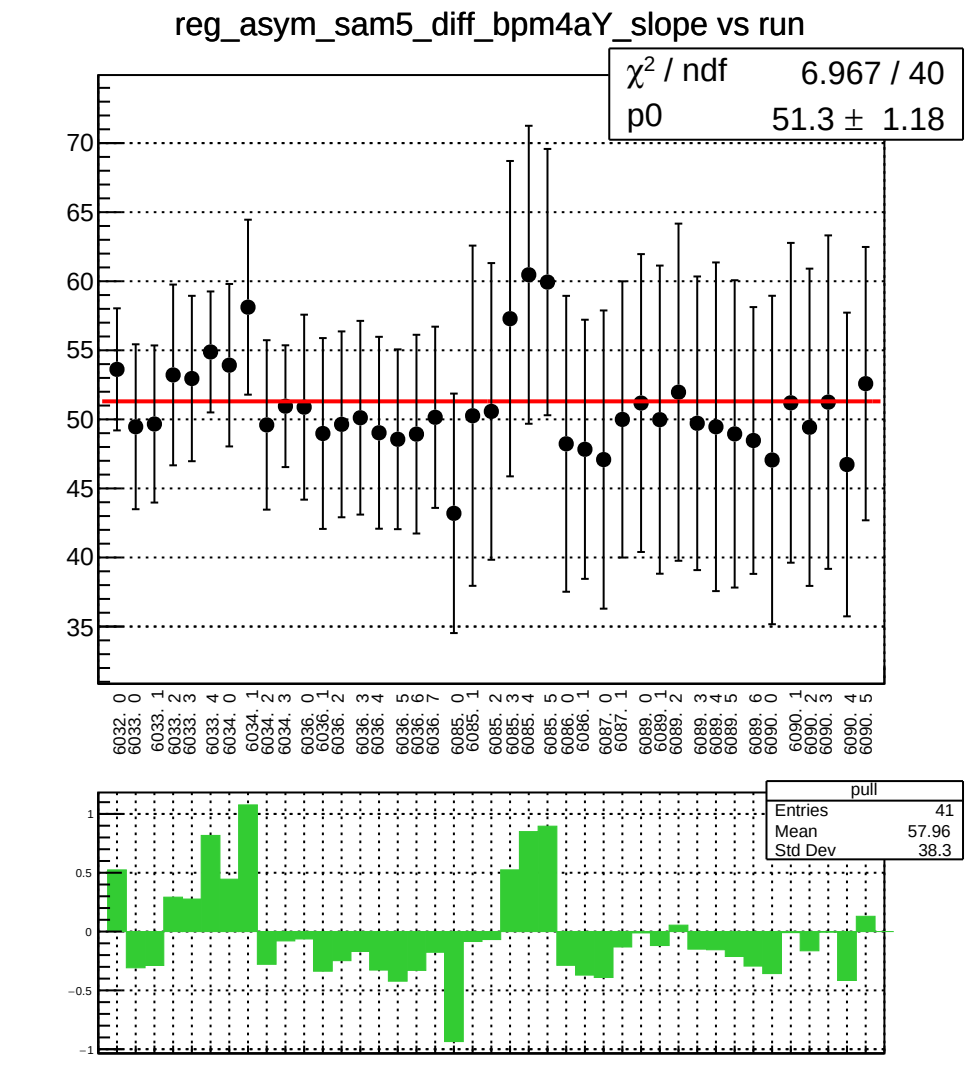

pull1D
Entries 41
Mean −0.07037
Std Dev 0.8327

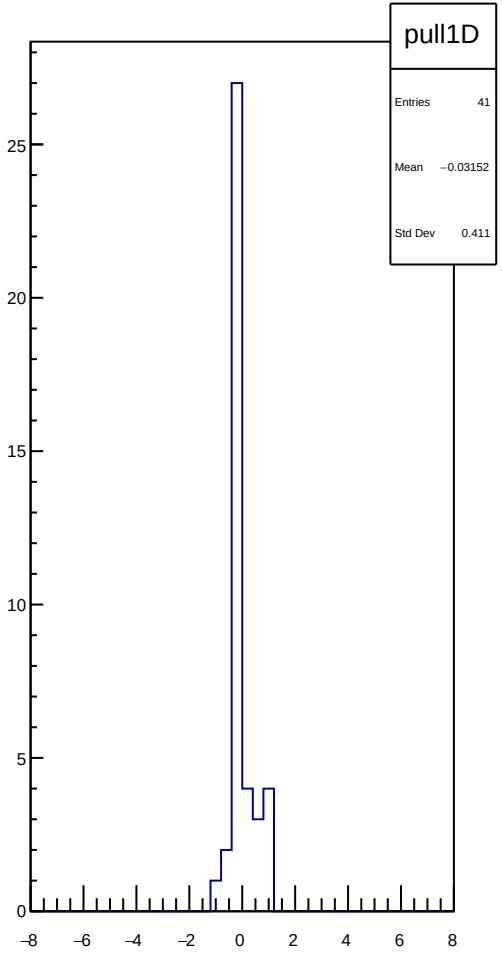

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 10.18 / 40
p0 246.6 ± 4.075
300
280
260
240
220
200
180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −29.12
Std Dev 46.6
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.009121
Std Dev 0.4983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

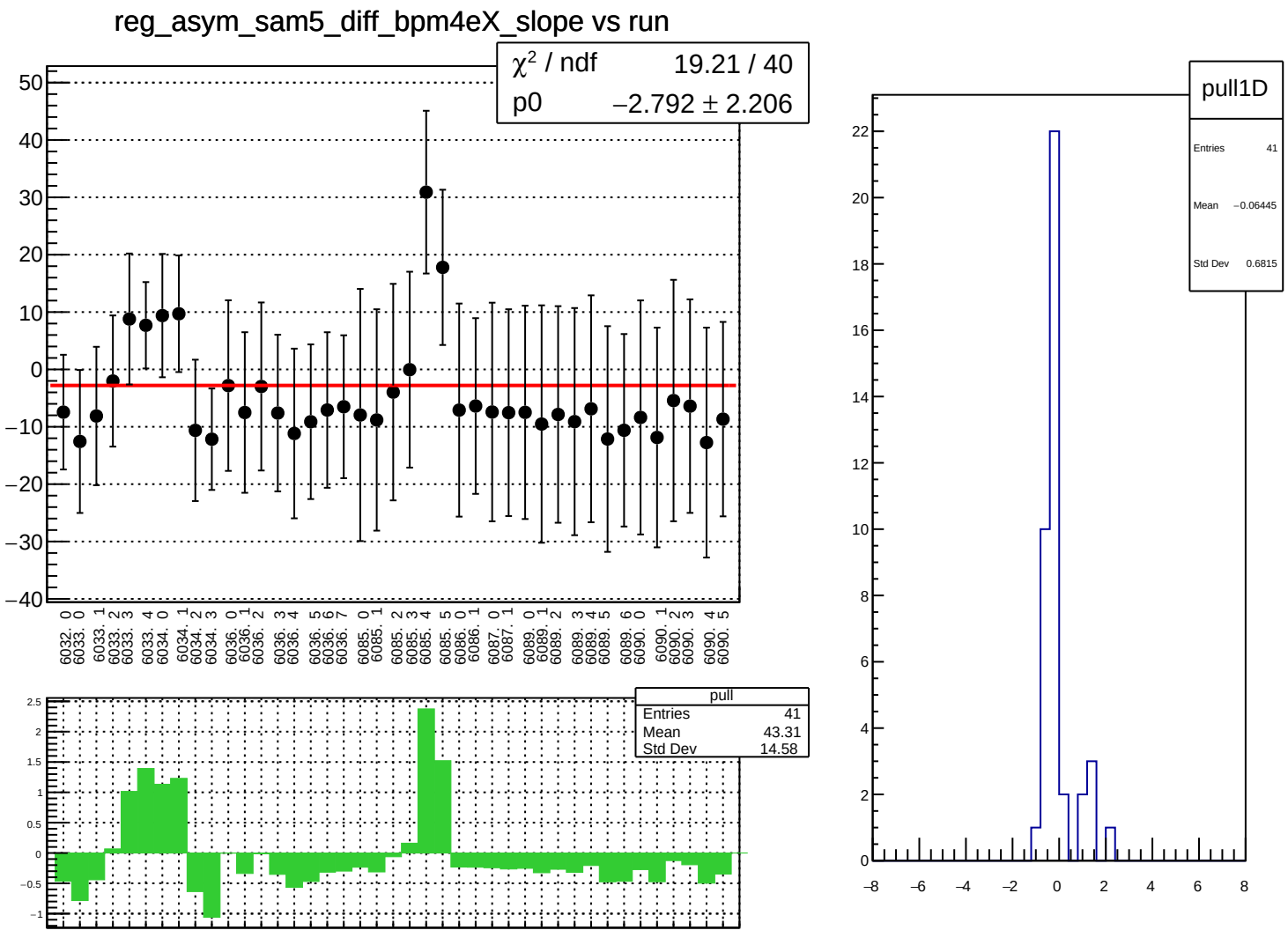

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 6.201 / 40
p0 −2.193 ± 0.3148
pull
Entries 41
Mean −299.9
Std Dev 322.7
pull1D
Entries 41
Mean −0.004591
Std Dev 0.3889

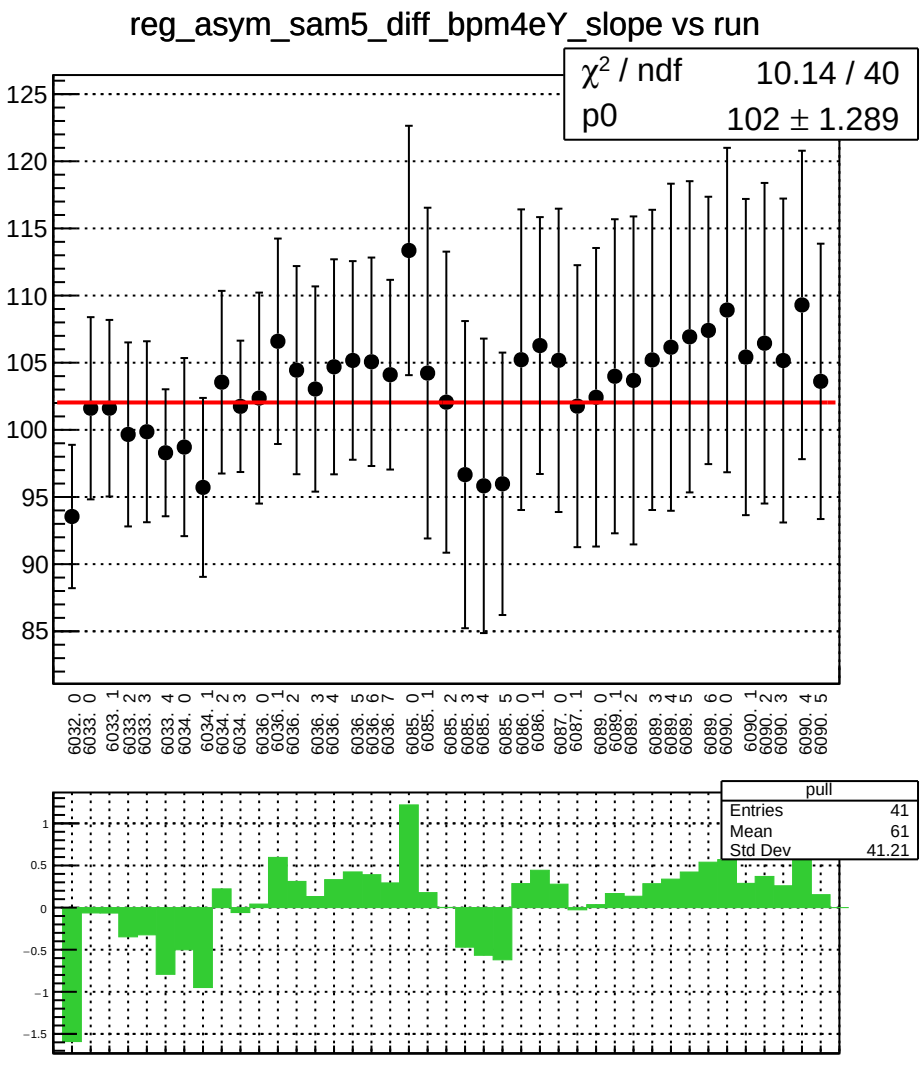

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 18.83 / 40
p0 −2.119 ± 2.009
pull
Entries 41
Mean 41.2
Std Dev 8.623

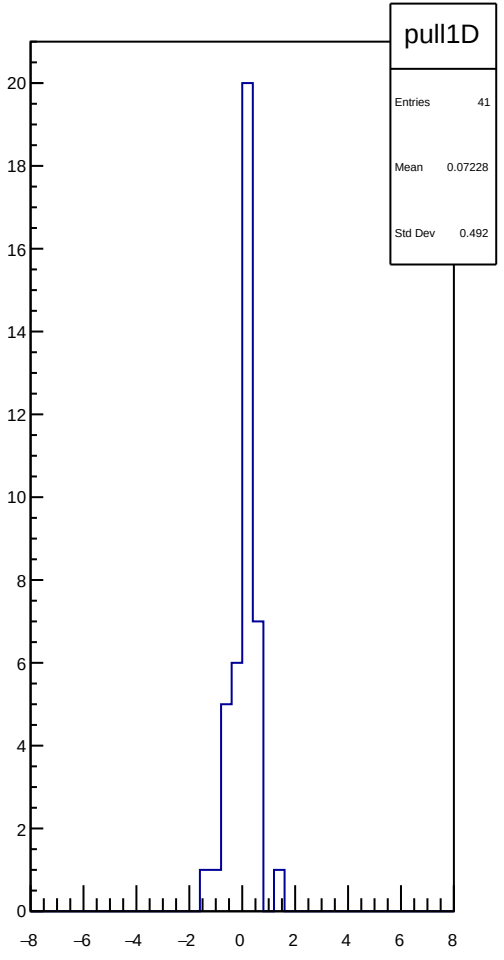

pull1D
Entries 41
Mean 0.05758
Std Dev 0.6752

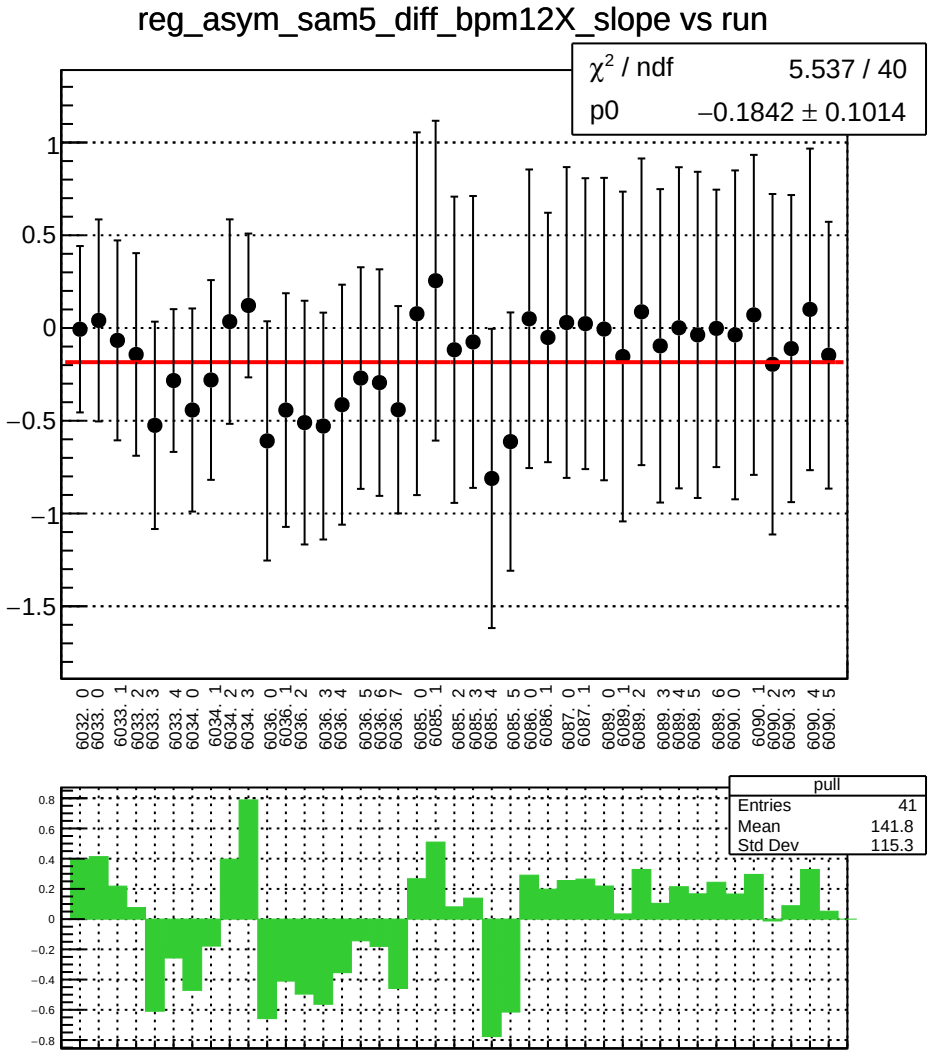

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.967 / 40
p0 51.3 ± 1.18
pull
Entries 41
Mean 57.96
Std Dev 38.3

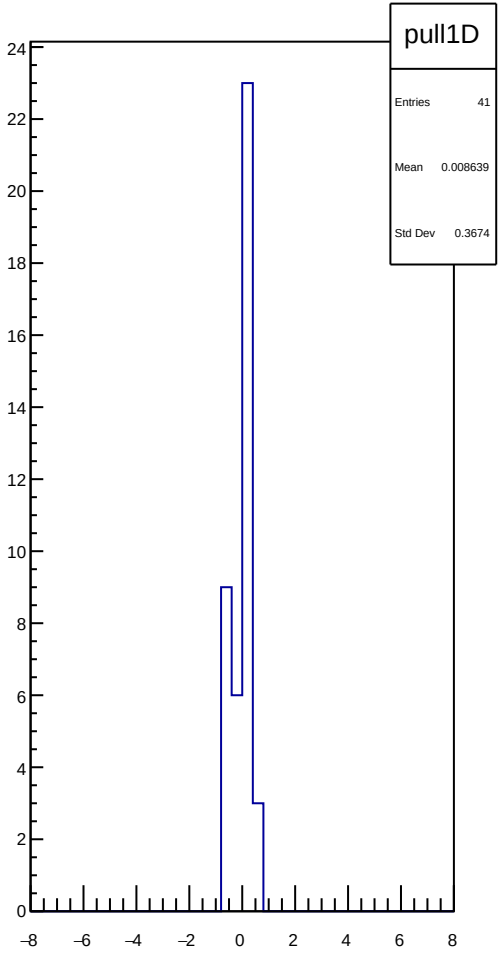

pull1D
Entries 41
Mean −0.03152
Std Dev 0.411

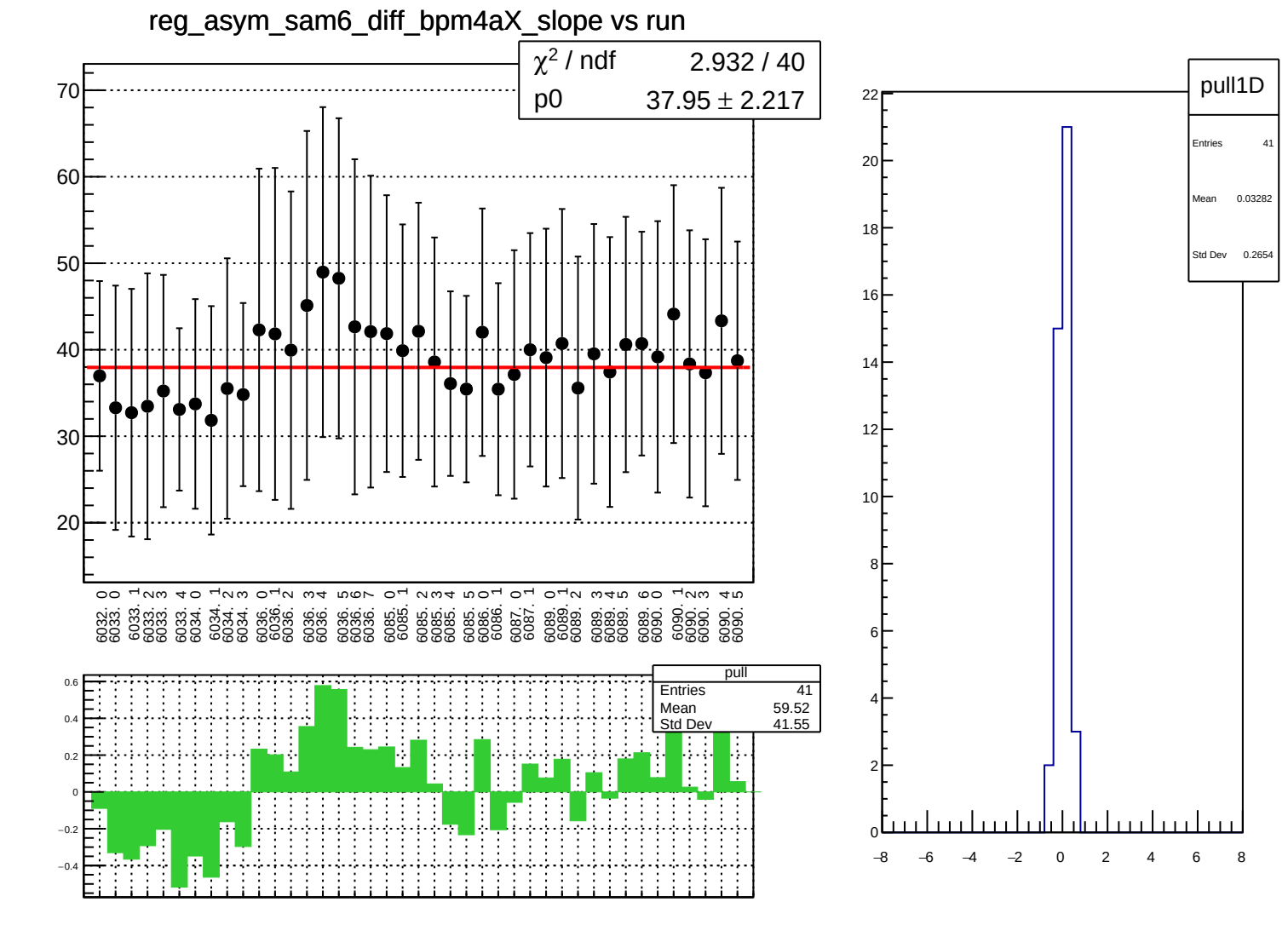

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 19.21 / 40
p0 −2.792 ± 2.206
pull
Entries 41
Mean 43.31
Std Dev 14.58
pull1D
Entries 41
Mean −0.06445
Std Dev 0.6815

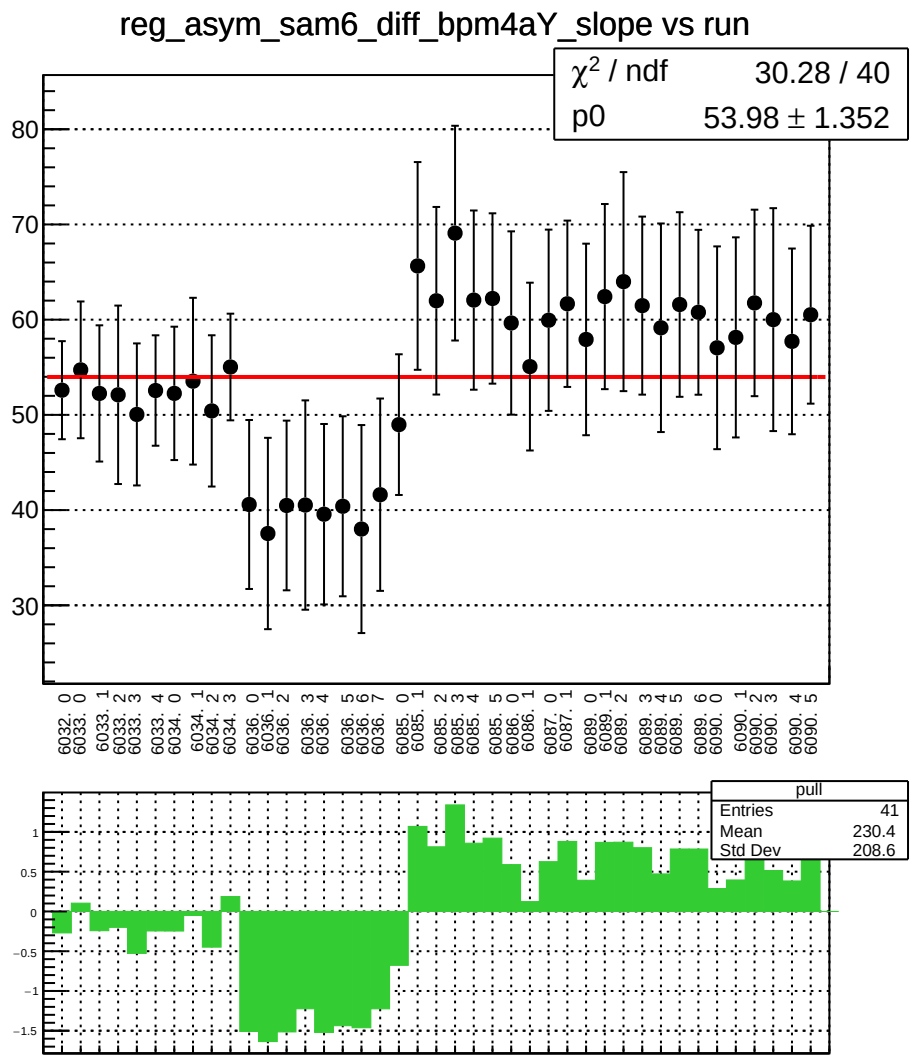

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 10.14 / 40
p0 102 ± 1.289
125
120
115
110
105
100
95
90
85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 61
Std Dev 41.21
1
0.5
0
−0.5
−1
−1.5

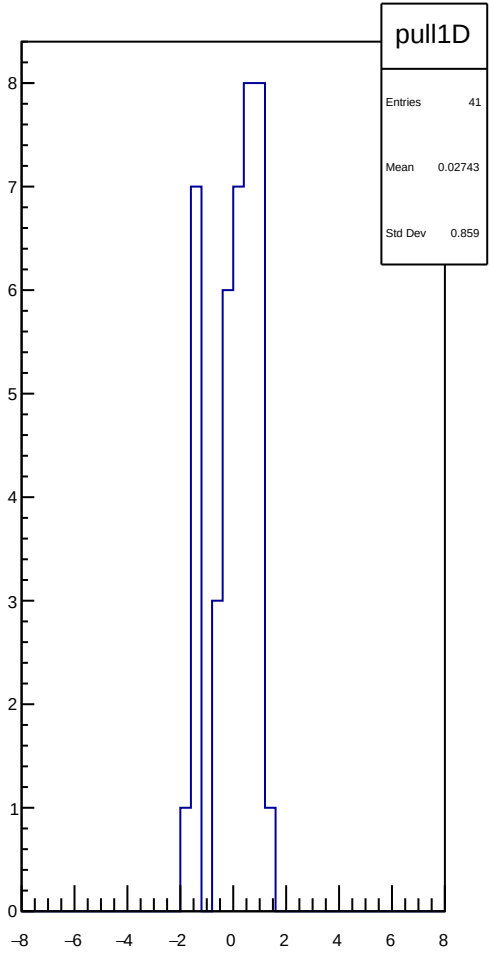

pull1D
Entries 41
Mean 0.07228
Std Dev 0.492
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

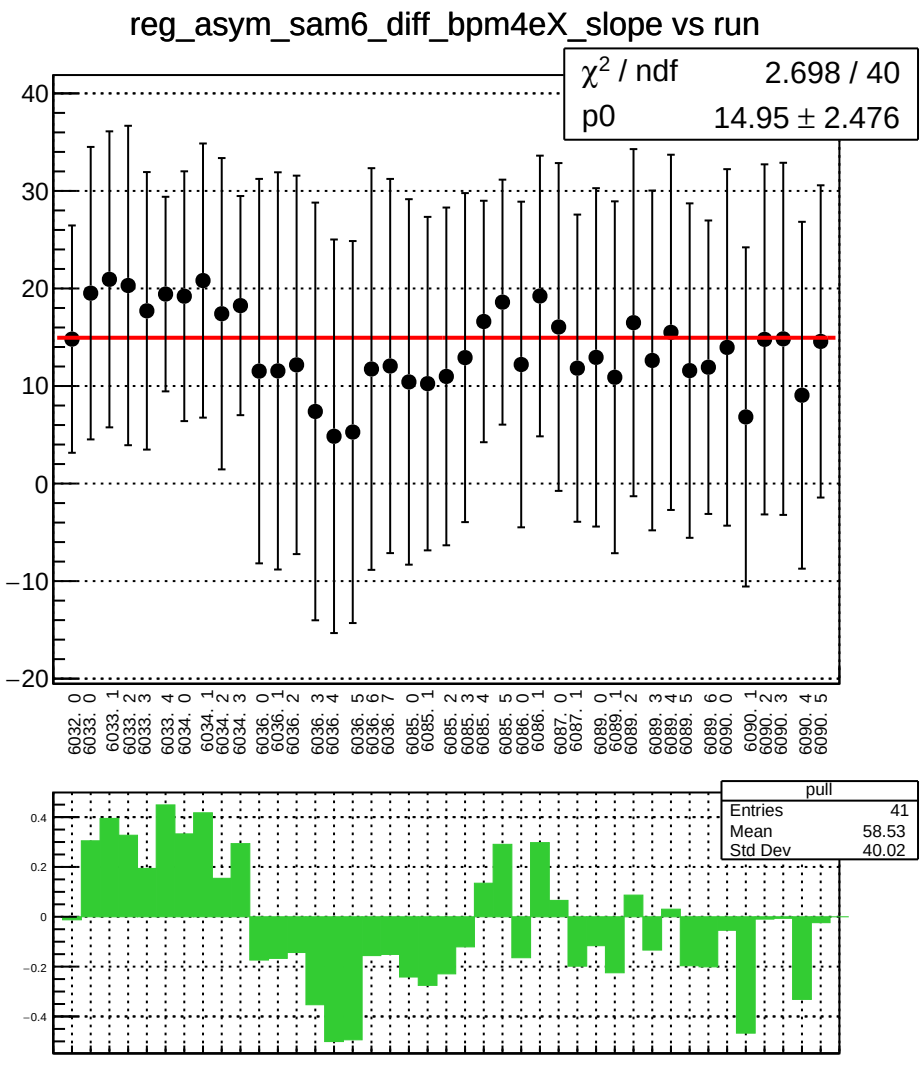

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5.537 / 40
p0 −0.1842 ± 0.1014
pull
Entries 41
Mean 141.8
Std Dev 115.3

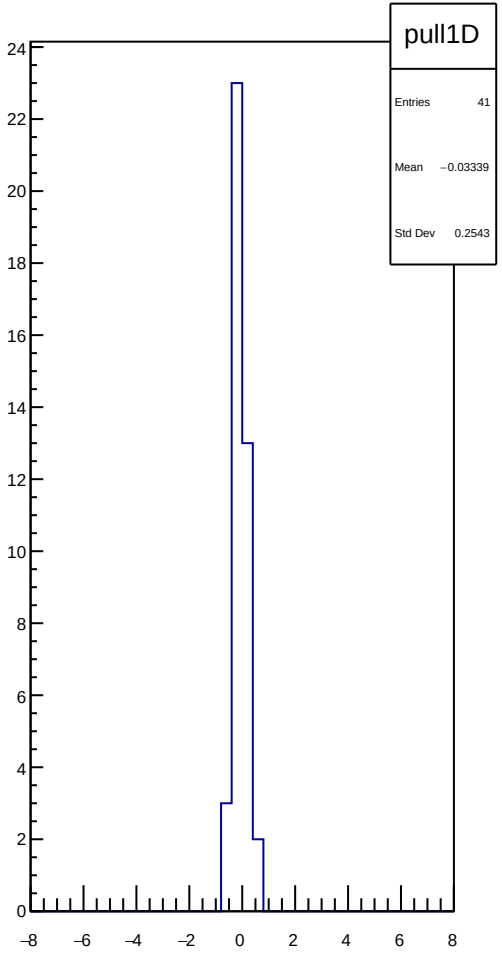

pull1D
Entries 41
Mean 0.008639
Std Dev 0.3674

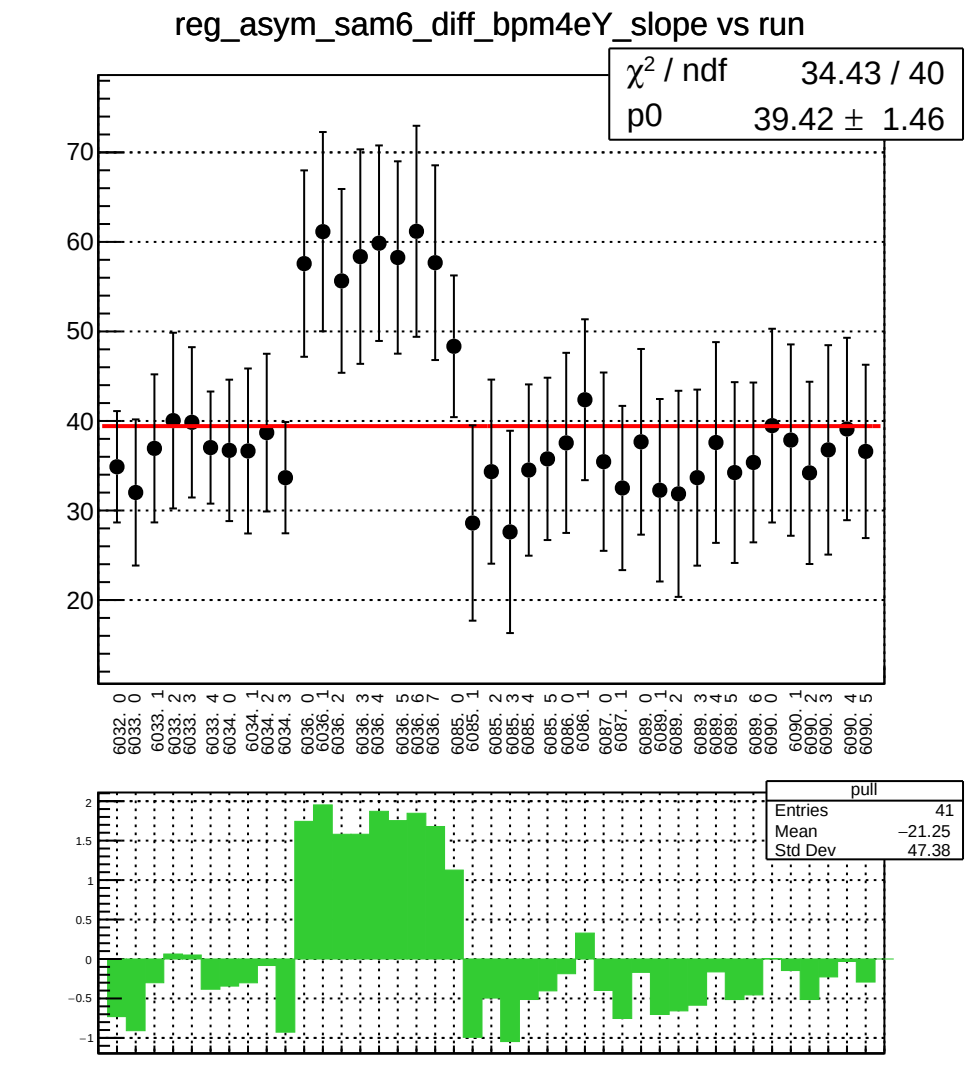

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.932 / 40
p0 37.95 ± 2.217
pull
Entries 41
Mean 59.52
Std Dev 41.55
pull1D
Entries 41
Mean 0.03282
Std Dev 0.2654

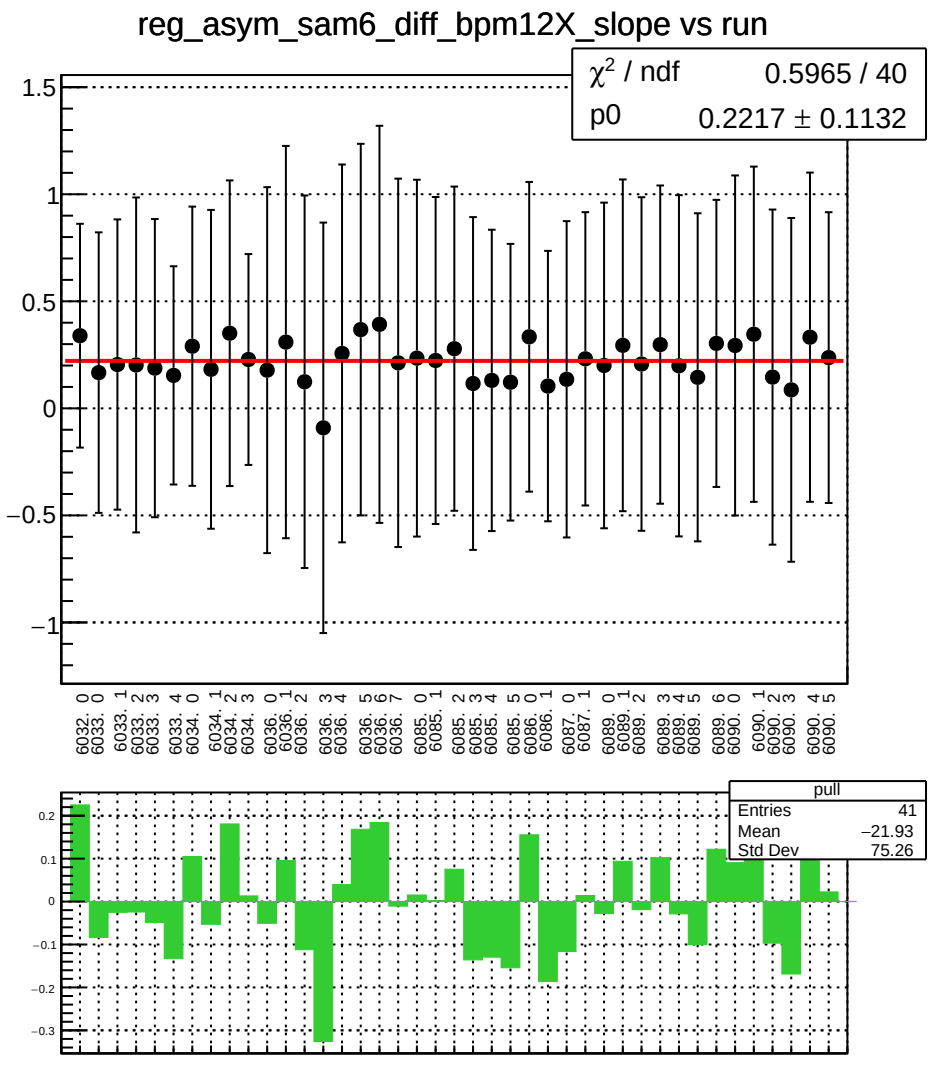

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 30.28 / 40
p0 53.98 ± 1.352
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 230.4
Std Dev 208.6
1
0.5
0
−0.5
−1
−1.5

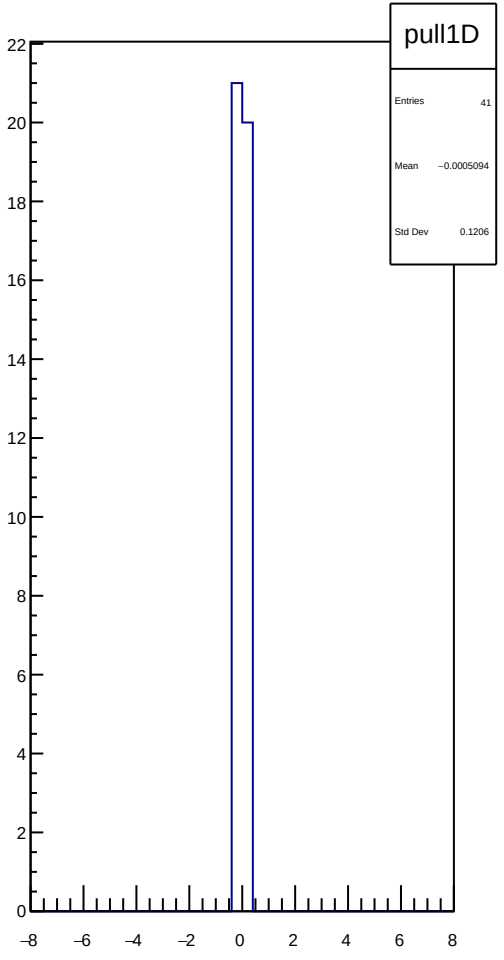

pull1D
Entries 41
Mean 0.02743
Std Dev 0.859
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

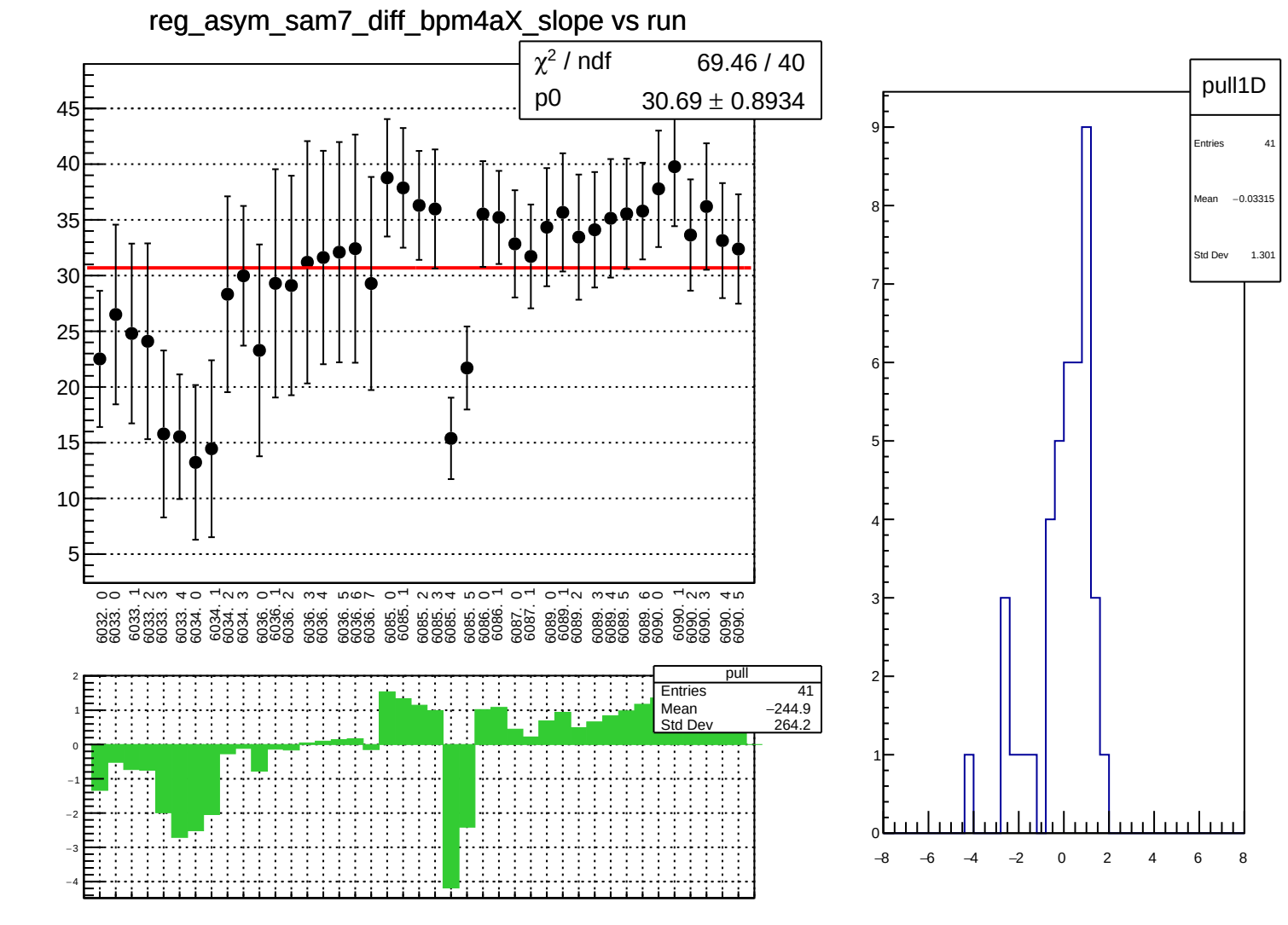

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.698 / 40
p0 14.95 ± 2.476
pull
Entries 41
Mean 58.53
Std Dev 40.02

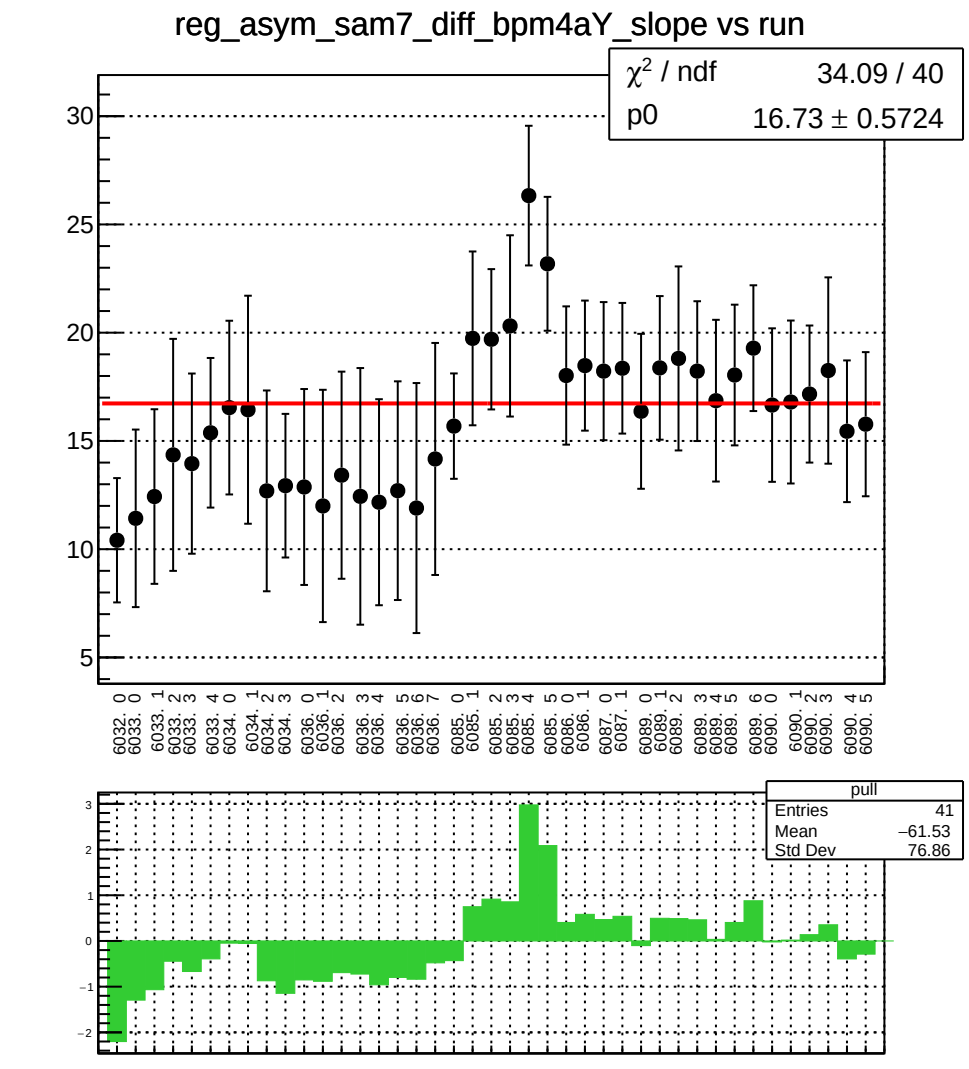

pull1D
Entries 41
Mean −0.03339
Std Dev 0.2543

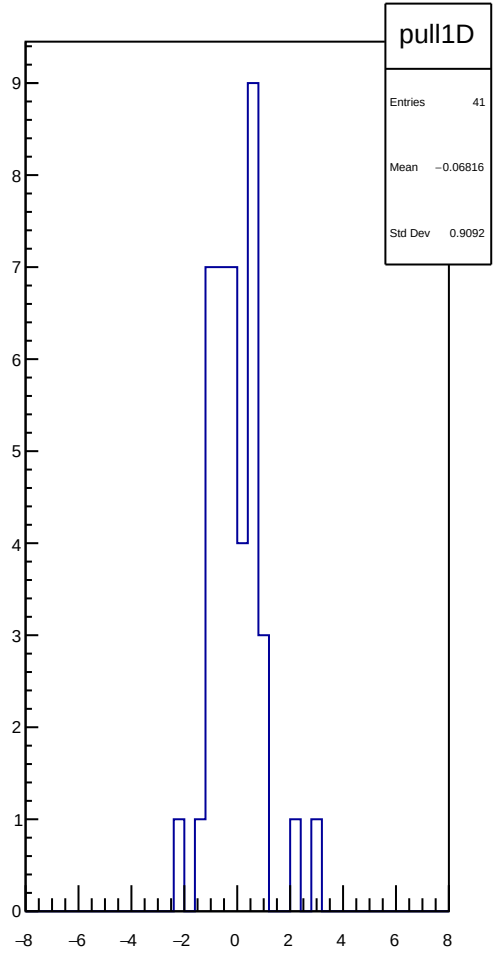

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 34.43 / 40
p0 39.42 ± 1.46
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −21.25
Std Dev 47.38
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.05761
Std Dev 0.9146
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

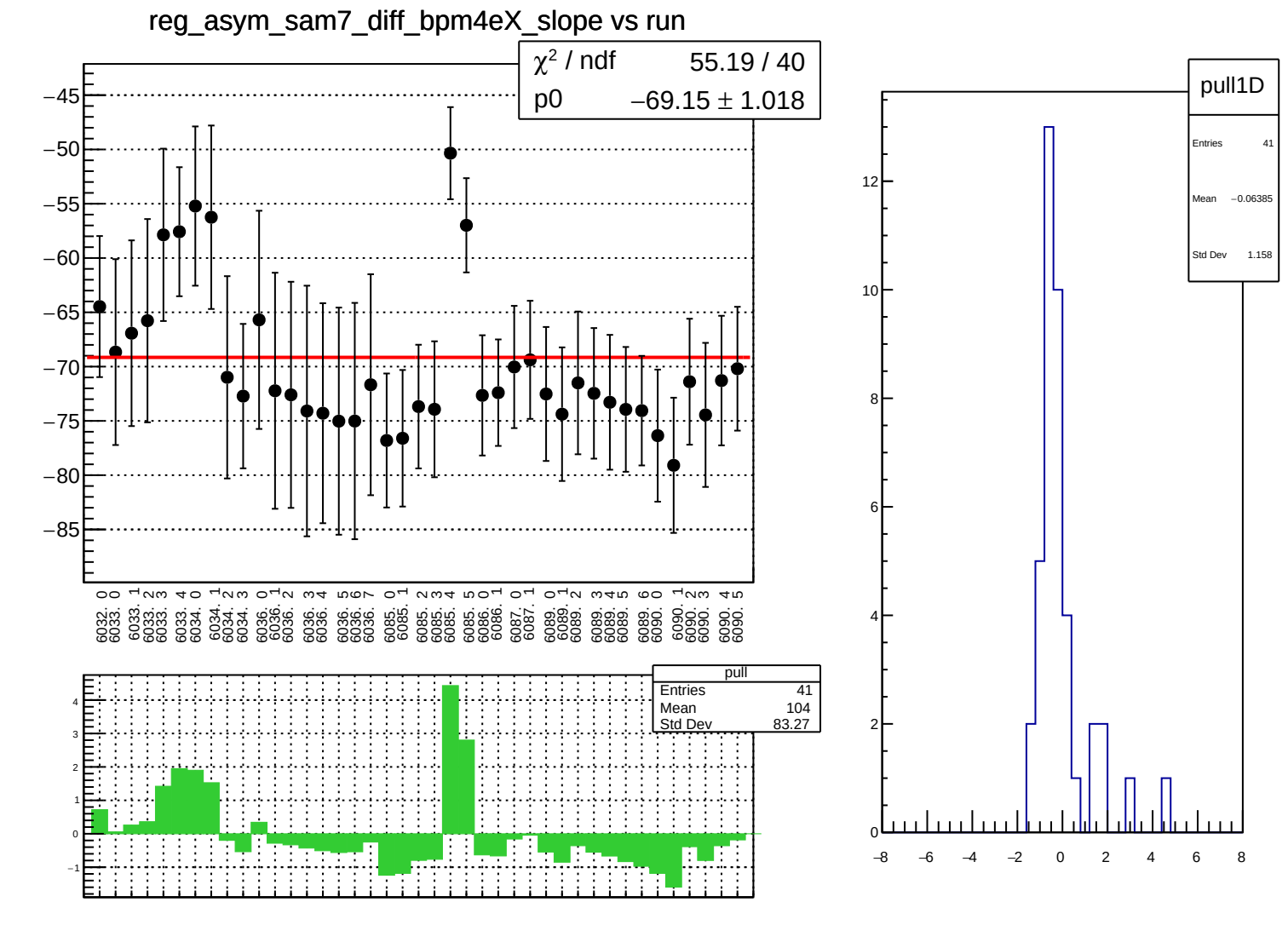

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.5965 / 40
p0 0.2217 ± 0.1132
pull
Entries 41
Mean −21.93
Std Dev 75.26

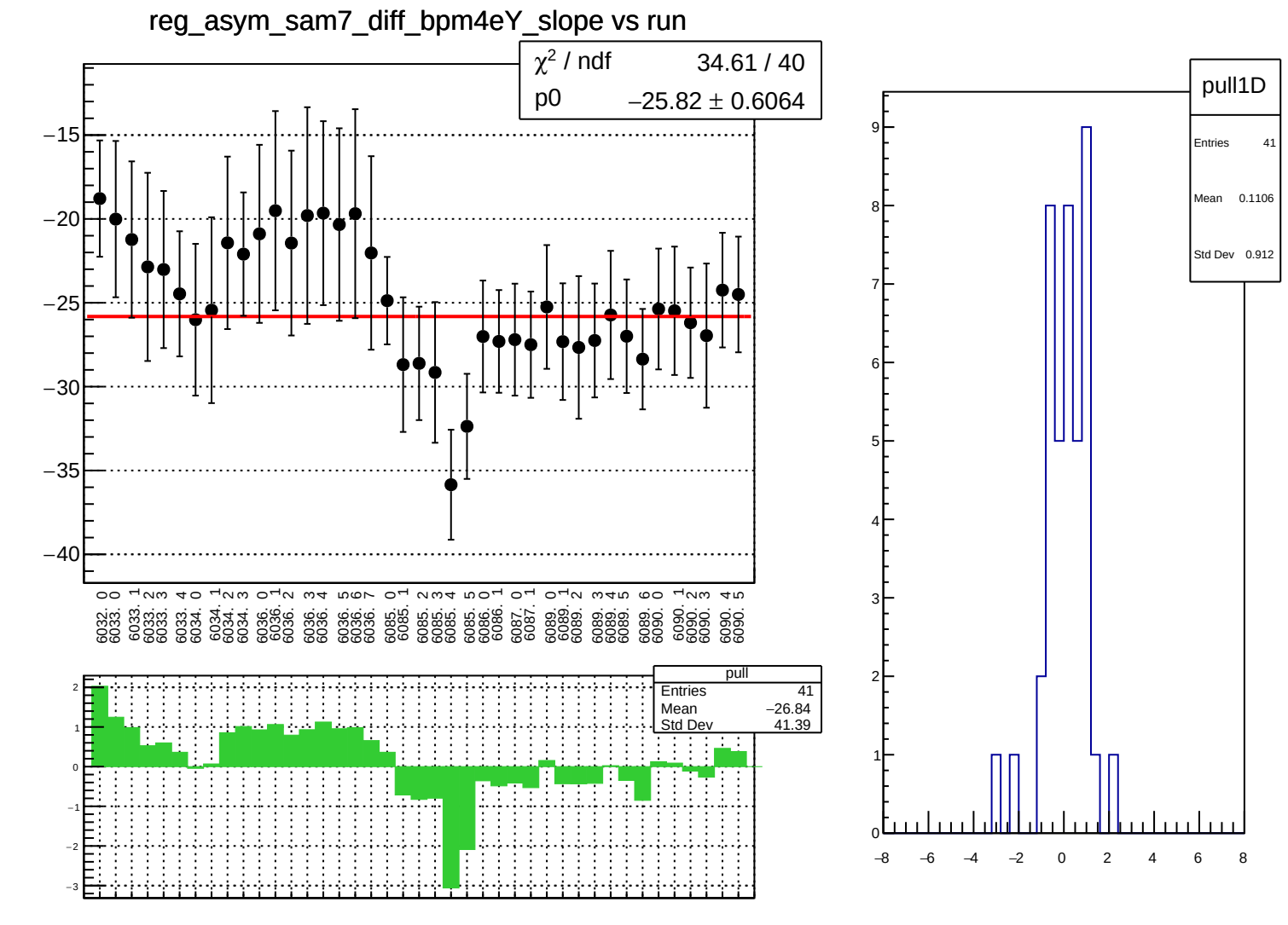

pull1D
Entries 41
Mean −0.0005094
Std Dev 0.1206

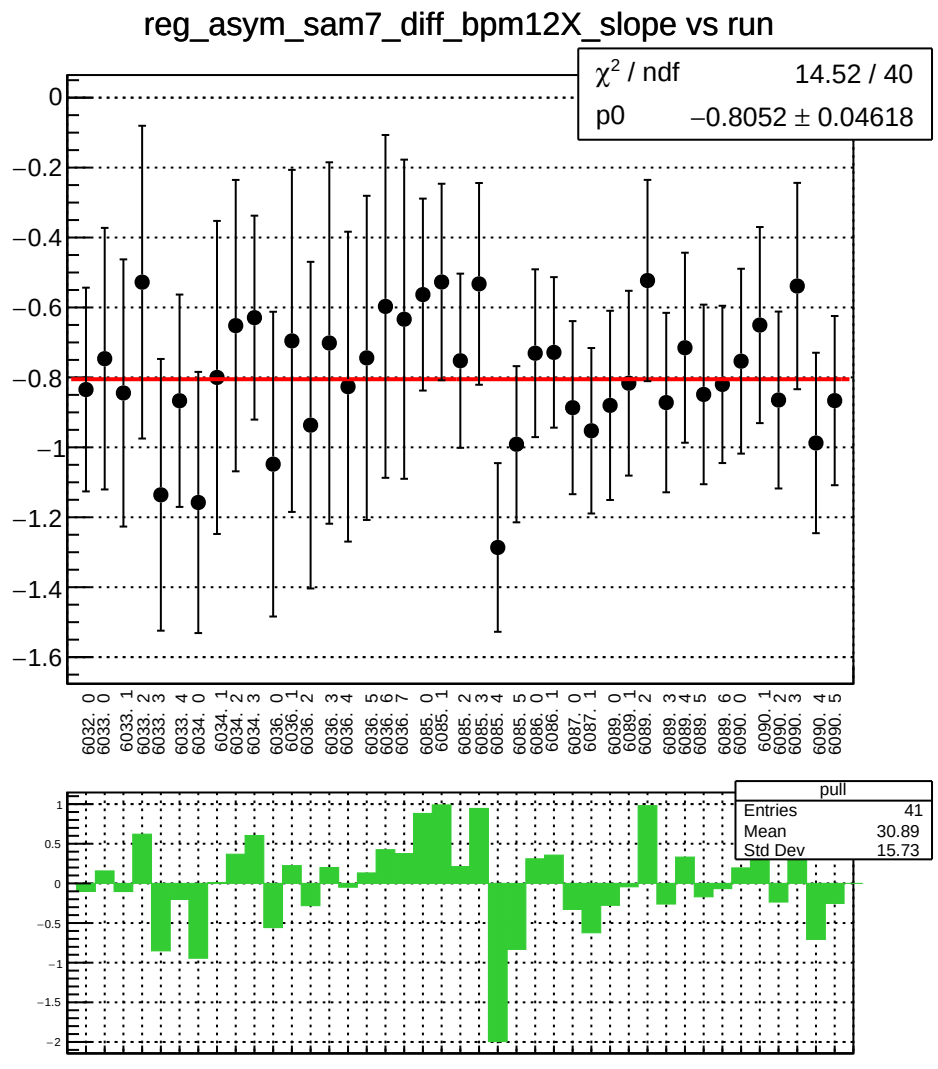

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 69.46 / 40
p0 30.69 ± 0.8934
pull
Entries 41
Mean −244.9
Std Dev 264.2
pull1D
Entries 41
Mean −0.03315
Std Dev 1.301

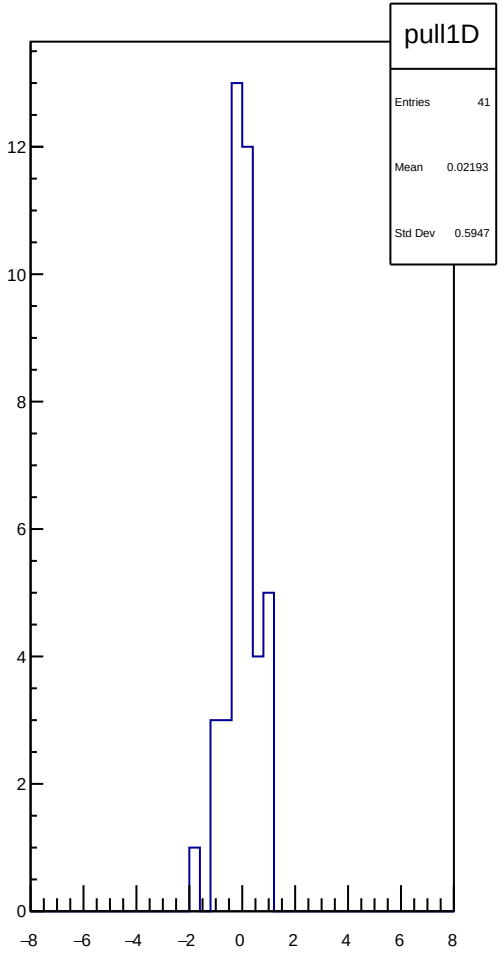

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 34.09 / 40
p0 16.73 ± 0.5724
pull
Entries 41
Mean −61.53
Std Dev 76.86

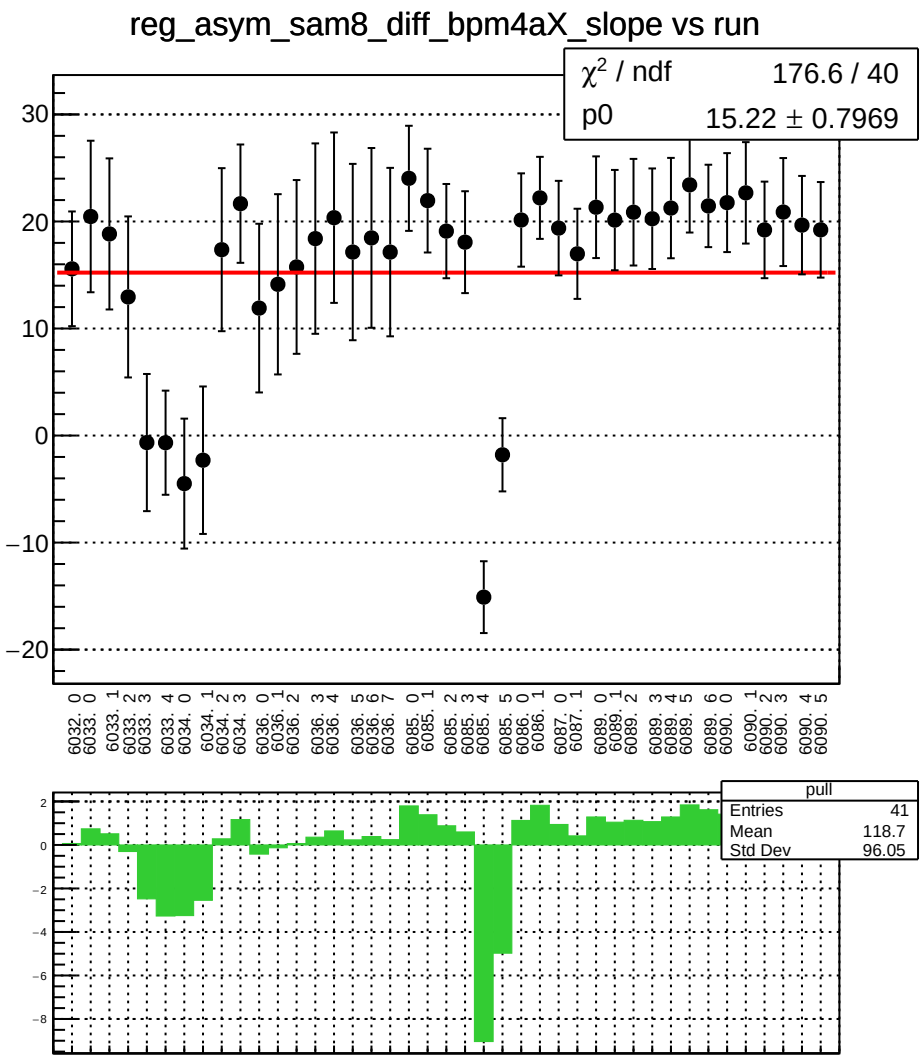

pull1D
Entries 41
Mean −0.06816
Std Dev 0.9092

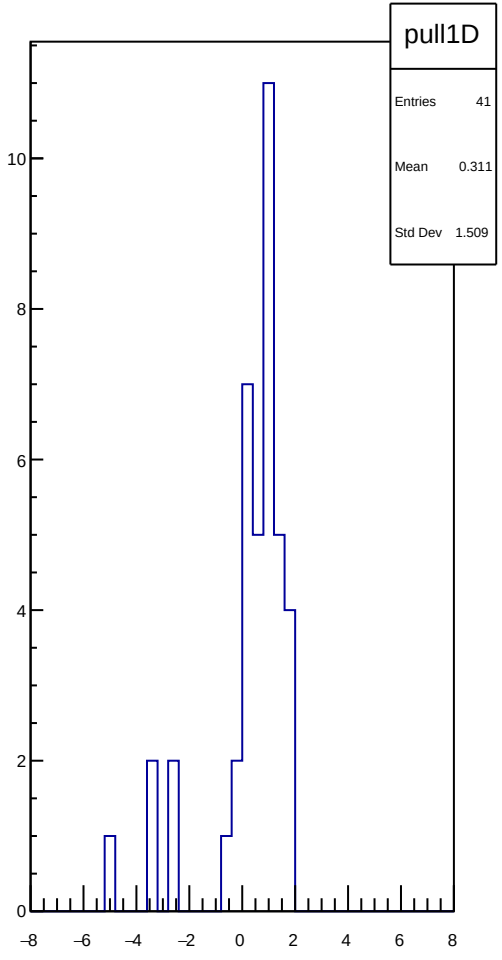

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 55.19 / 40
p0 −69.15 ± 1.018
pull
Entries 41
Mean 104
Std Dev 83.27
pull1D
Entries 41
Mean −0.06385
Std Dev 1.158

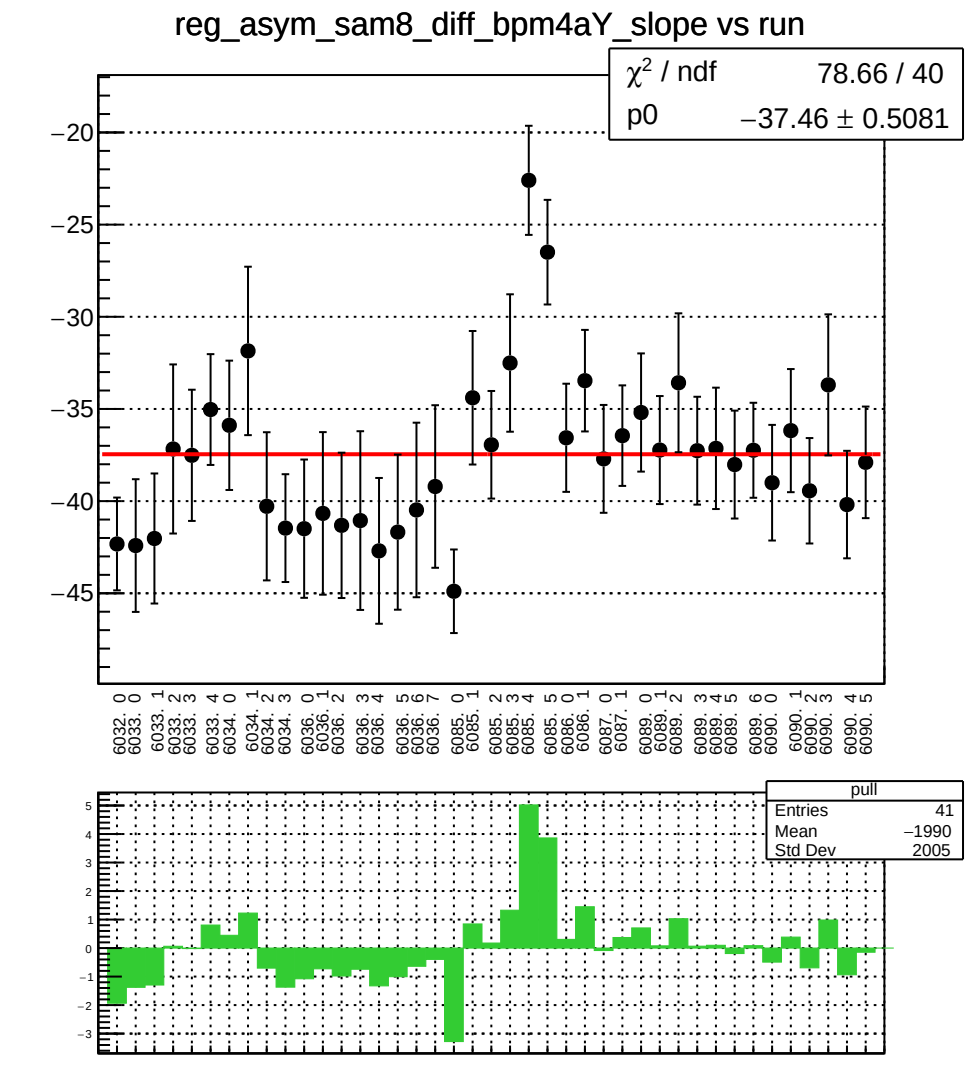

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 34.61 / 40
p0 −25.82 ± 0.6064
−15
−20
−25
−30
−35
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −26.84
Std Dev 41.39
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.1106
Std Dev 0.912
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

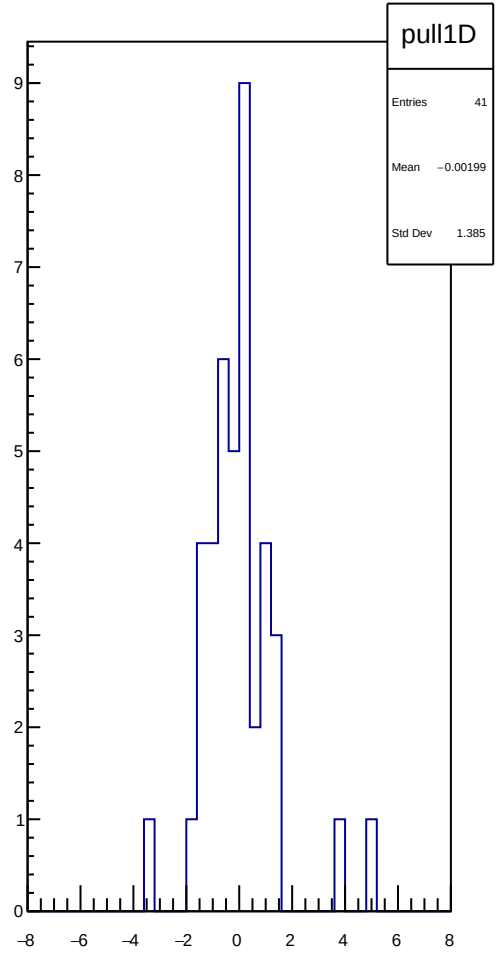

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 14.52 / 40
p0 −0.8052 ± 0.04618
pull
Entries 41
Mean 30.89
Std Dev 15.73

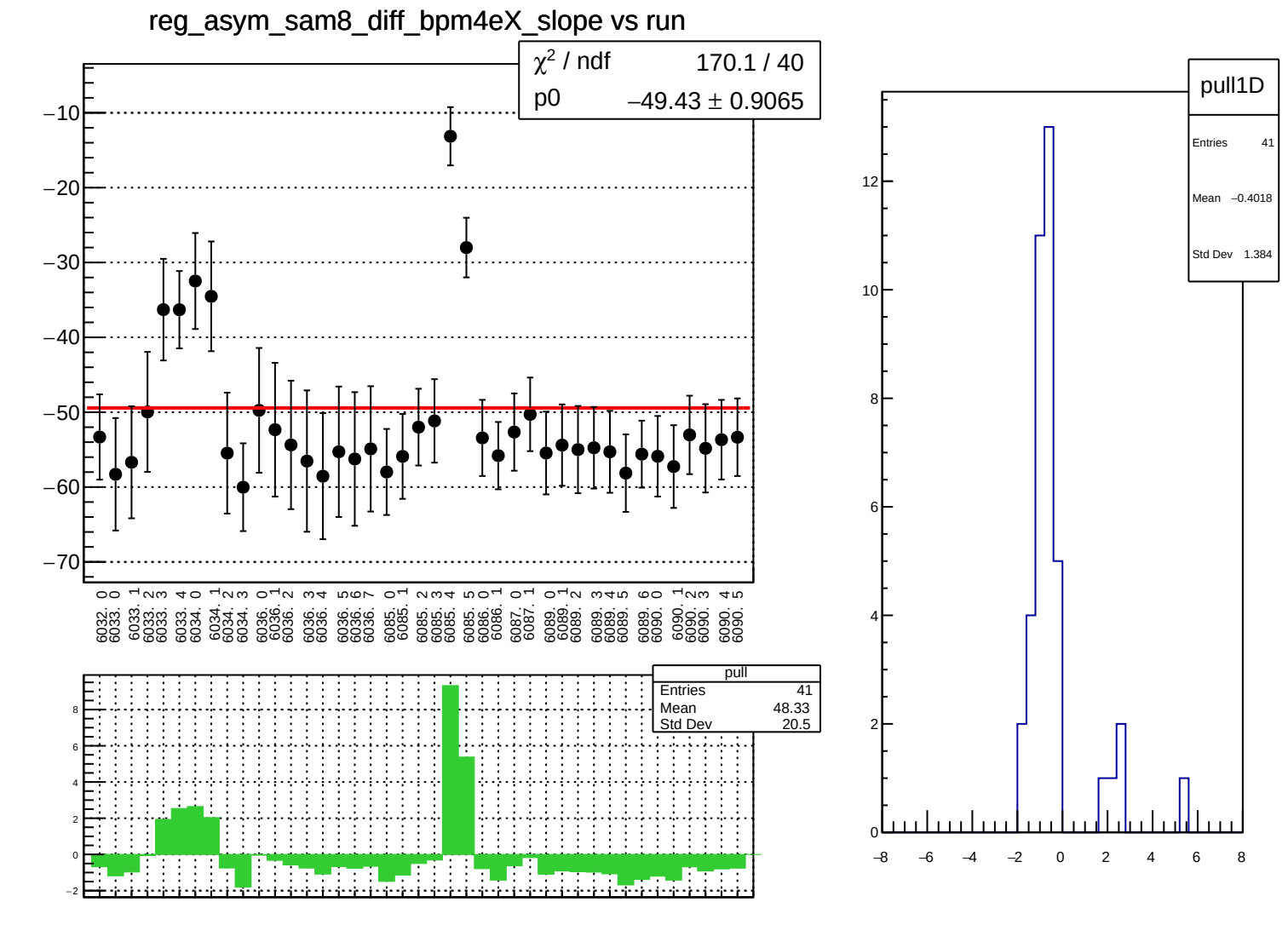

pull1D
Entries 41
Mean 0.02193
Std Dev 0.5947

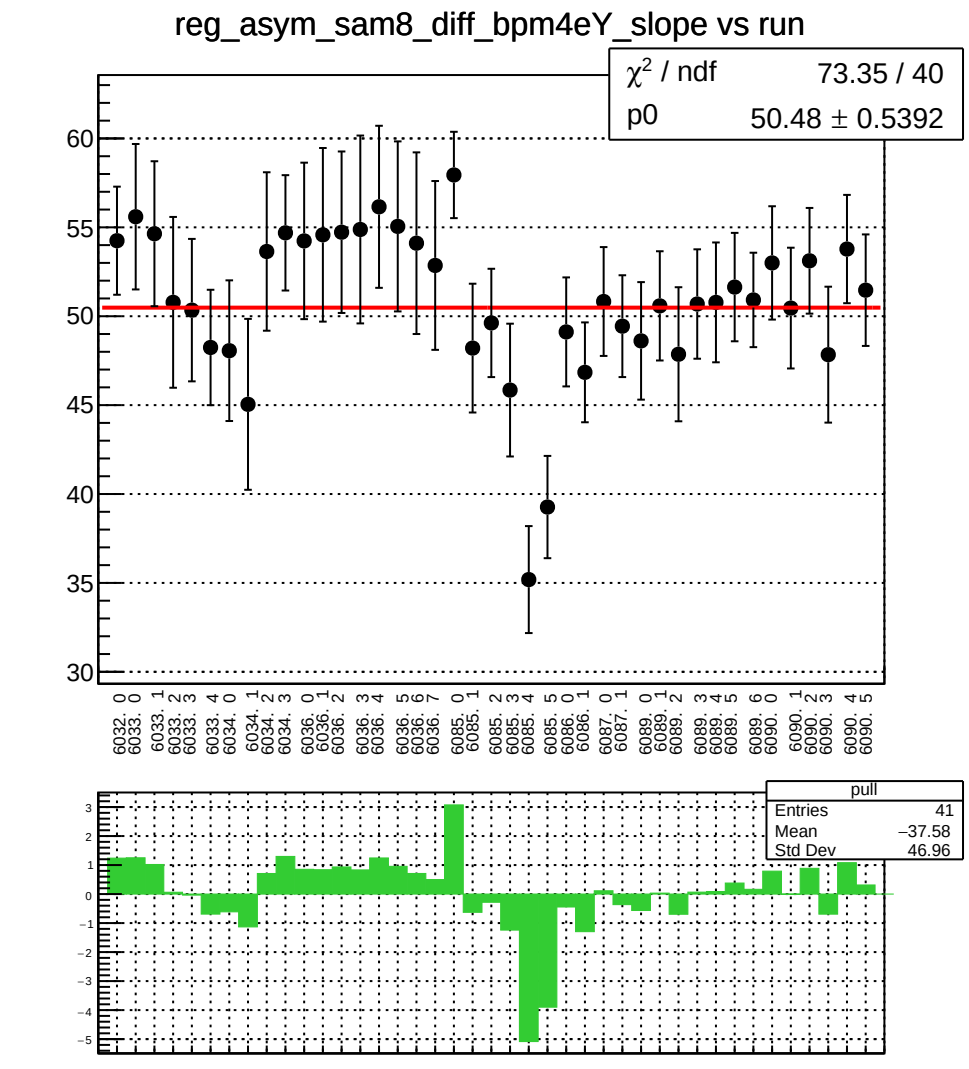

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 176.6 / 40
p0 15.22 ± 0.7969
pull
Entries 41
Mean 118.7
Std Dev 96.05

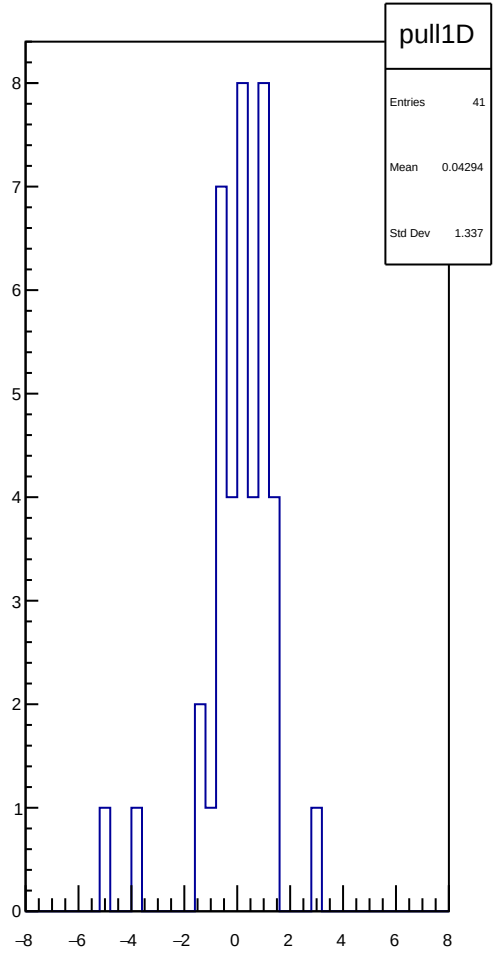

pull1D
Entries 41
Mean 0.311
Std Dev 1.509

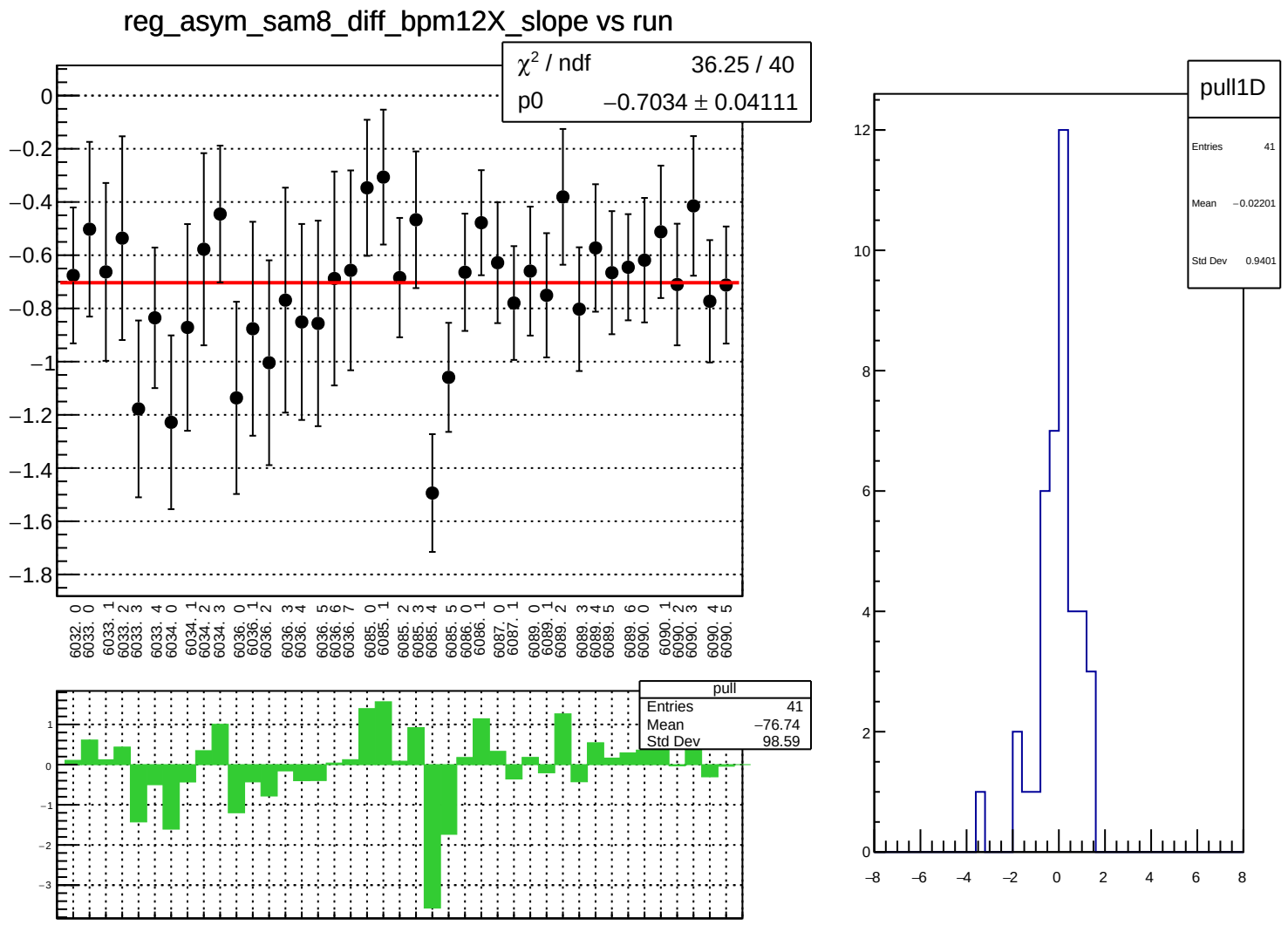

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 78.66 / 40
p0 −37.46 ± 0.5081
pull
Entries 41
Mean −1990
Std Dev 2005

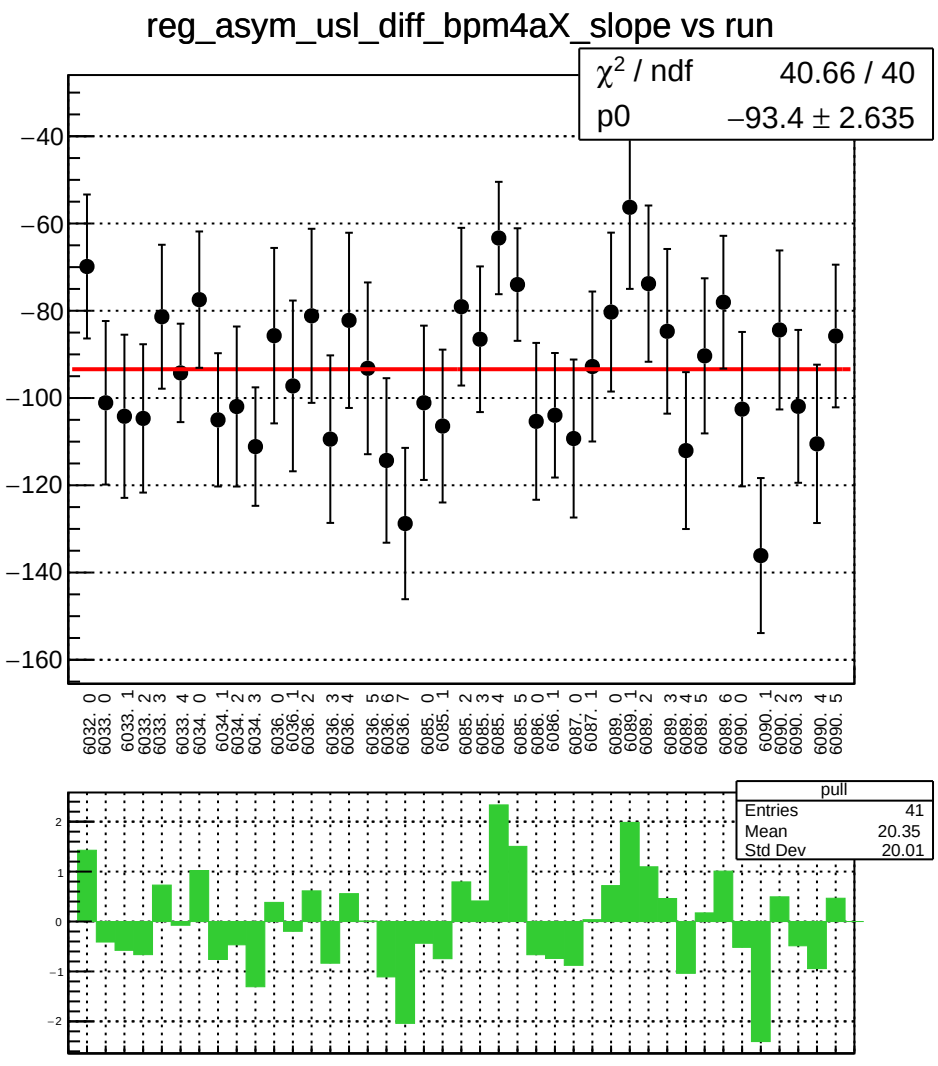

pull1D
Entries 41
Mean −0.00199
Std Dev 1.385

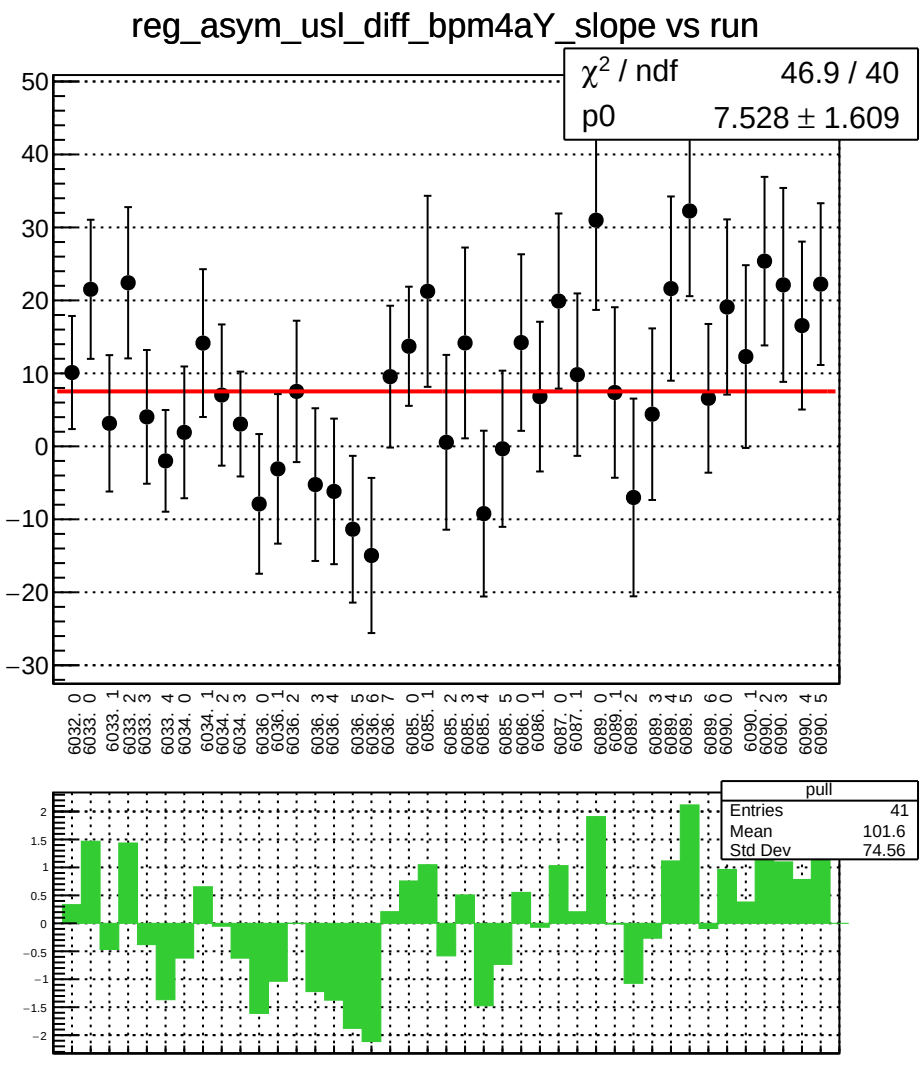

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 170.1 / 40
p0 −49.43 ± 0.9065
pull
Entries 41
Mean 48.33
Std Dev 20.5
pull1D
Entries 41
Mean −0.4018
Std Dev 1.384

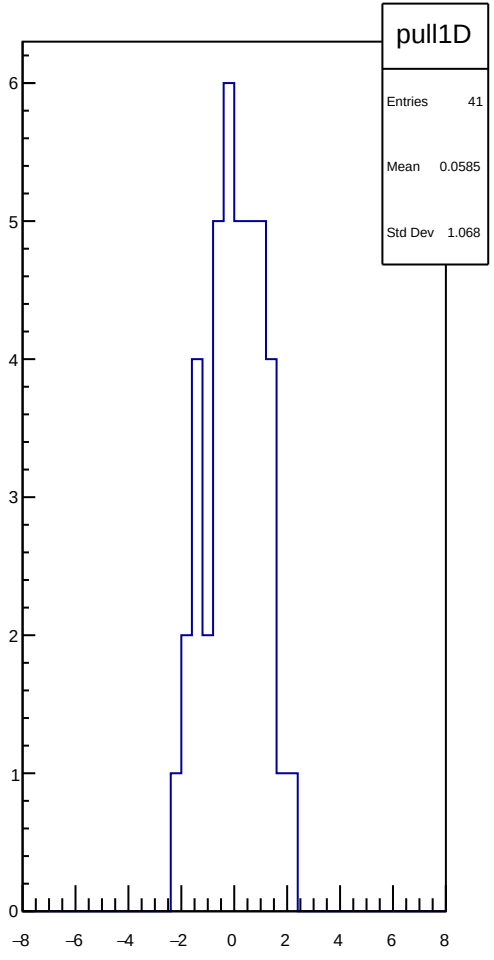

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 73.35 / 40
p0 50.48 ± 0.5392
pull
Entries 41
Mean −37.58
Std Dev 46.96

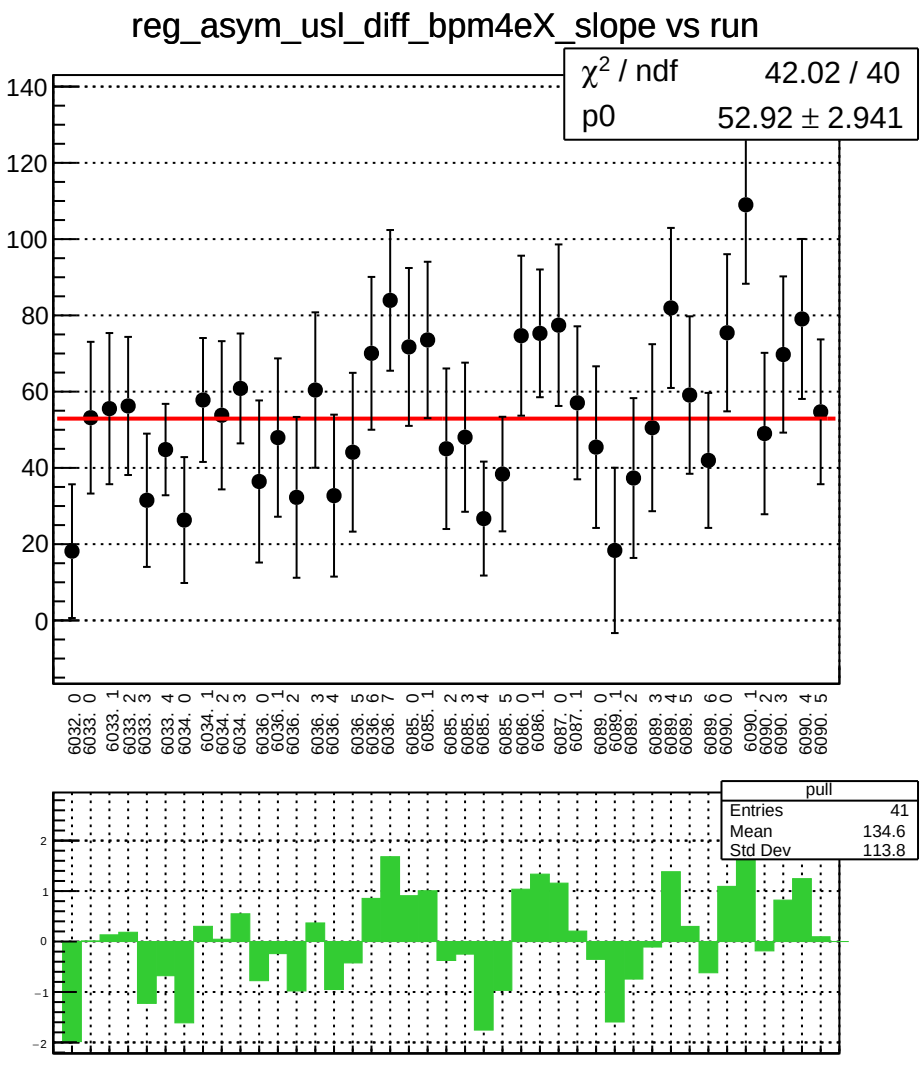

pull1D
Entries 41
Mean 0.04294
Std Dev 1.337

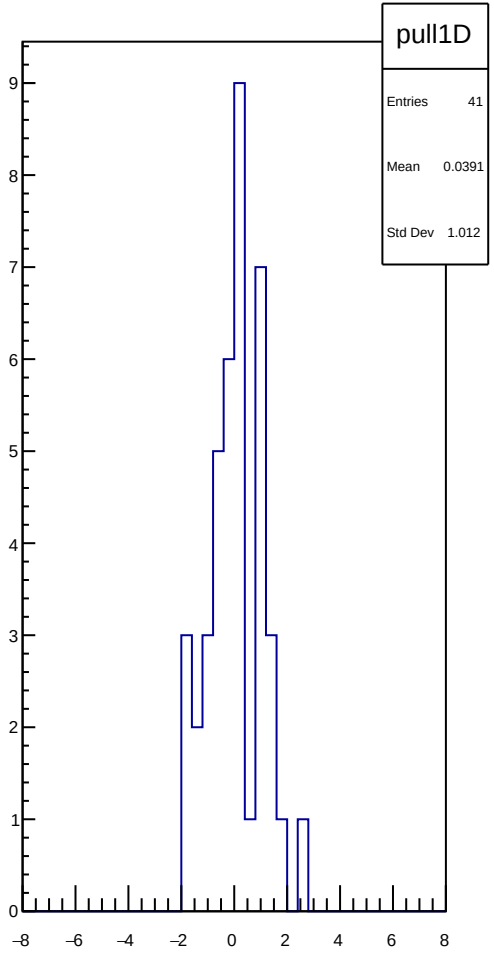

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 36.25 / 40
p0 −0.7034 ± 0.04111
pull
Entries 41
Mean −76.74
Std Dev 98.59
pull1D
Entries 41
Mean −0.02201
Std Dev 0.9401

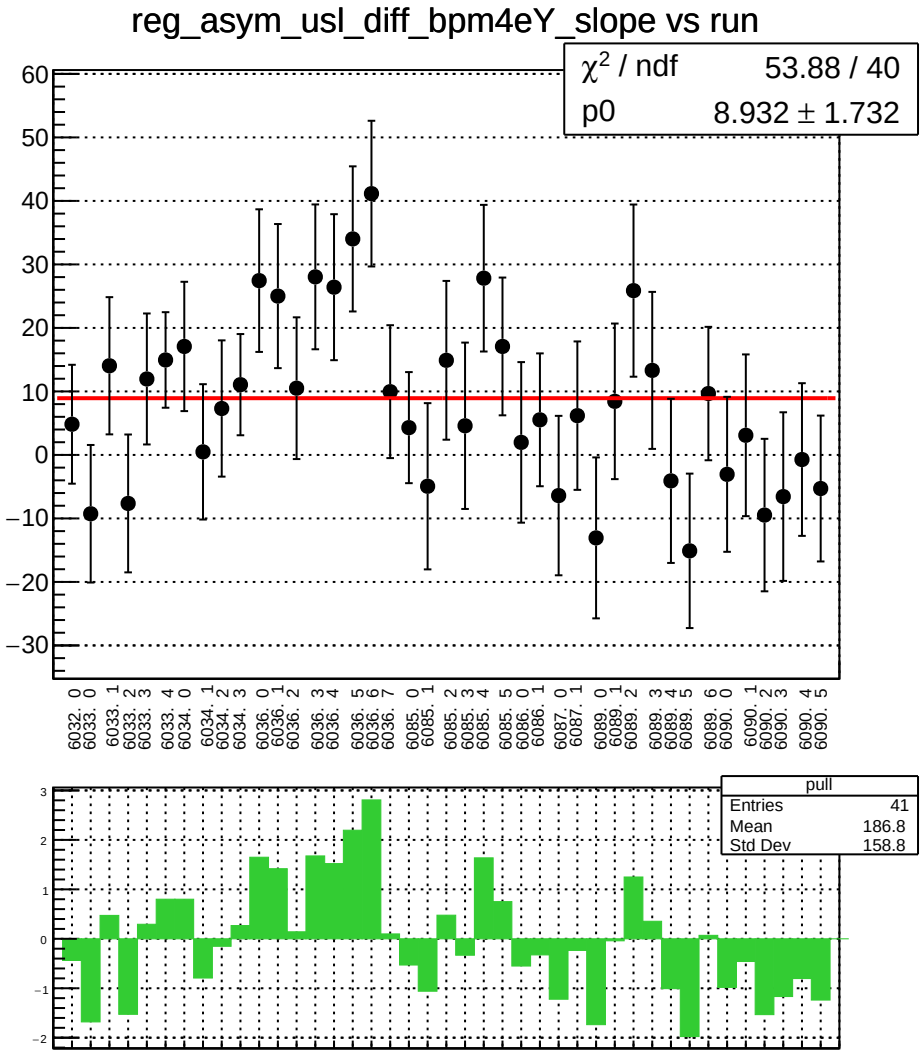

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 40.66 / 40
p0 −93.4 ± 2.635
−40
−60
−80
−100
−120
−140
−160
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 20.35
Std Dev 20.01
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02574
Std Dev 0.9955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

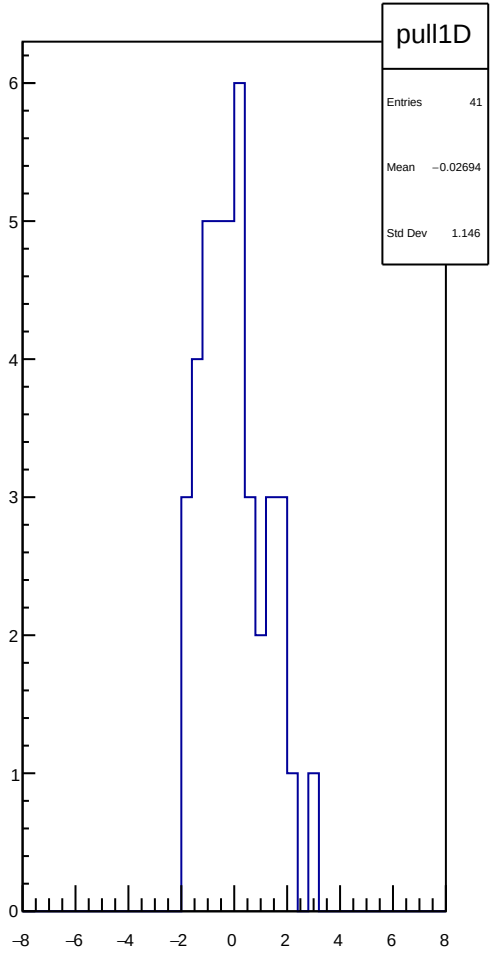

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 46.9 / 40
p0 7.528 ± 1.609
pull
Entries 41
Mean 101.6
Std Dev 74.56

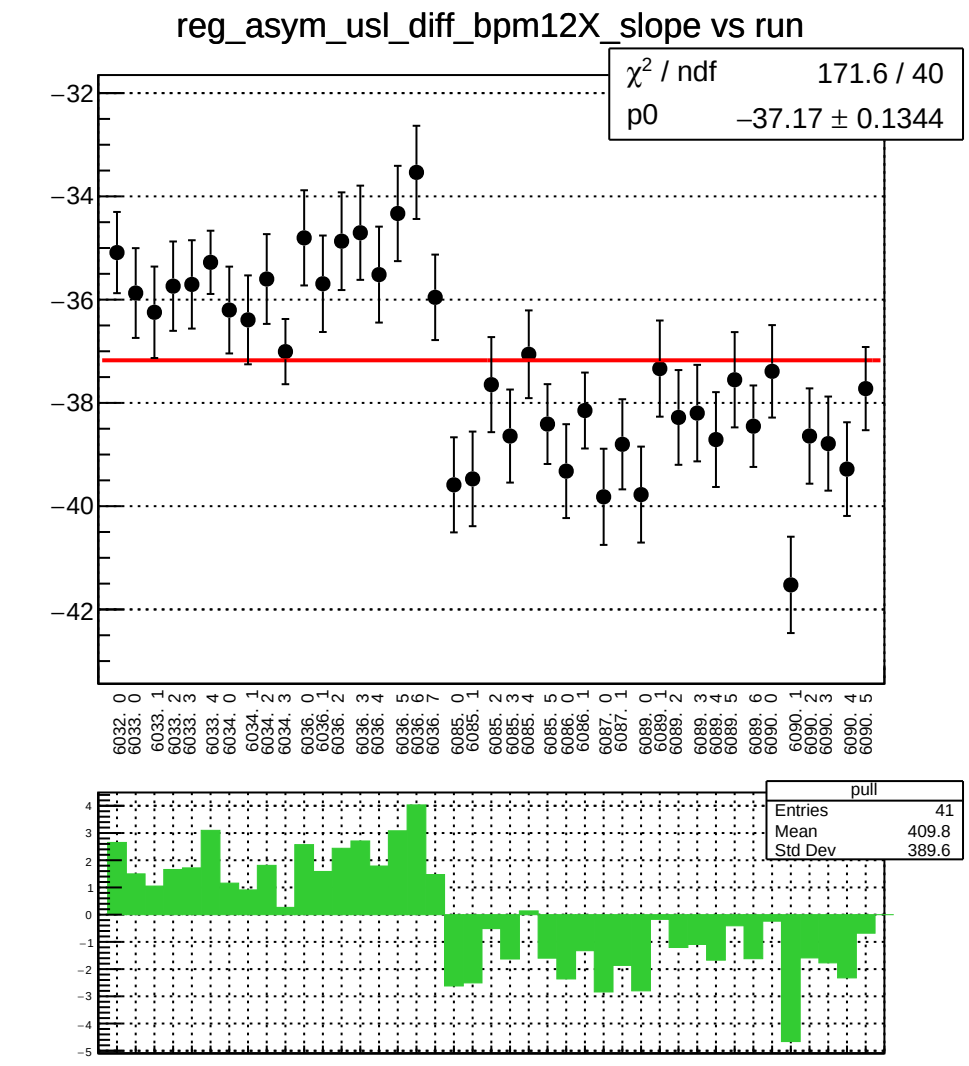

pull1D
Entries 41
Mean 0.0585
Std Dev 1.068

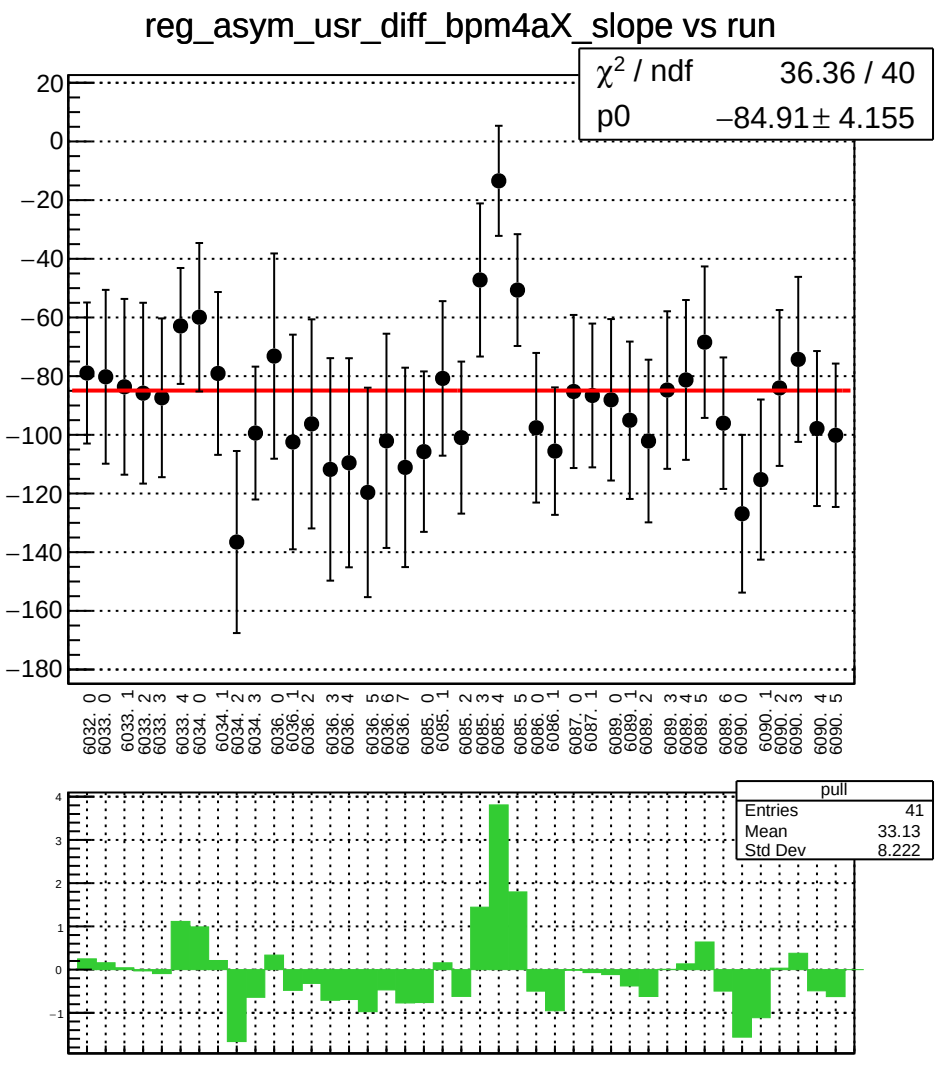

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 42.02 / 40
p0 52.92 ± 2.941
pull
Entries 41
Mean 134.6
Std Dev 113.8

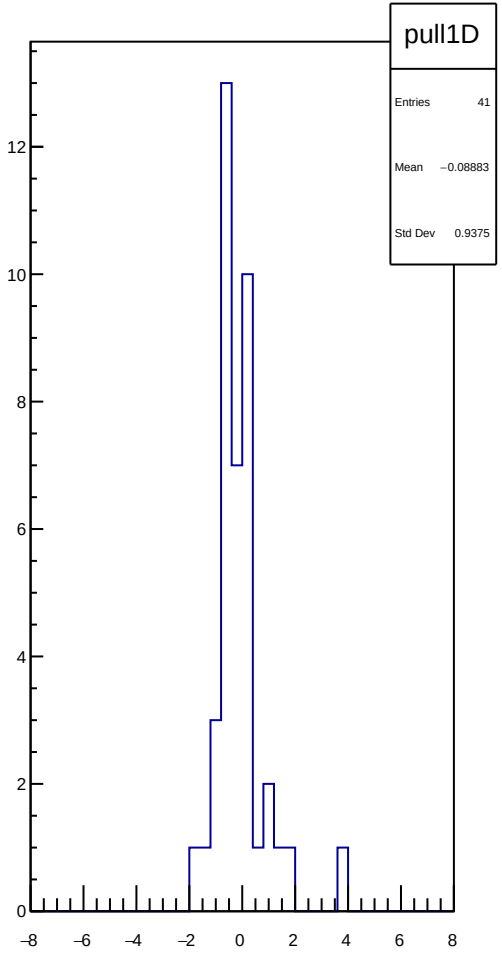

pull1D
Entries 41
Mean 0.0391
Std Dev 1.012

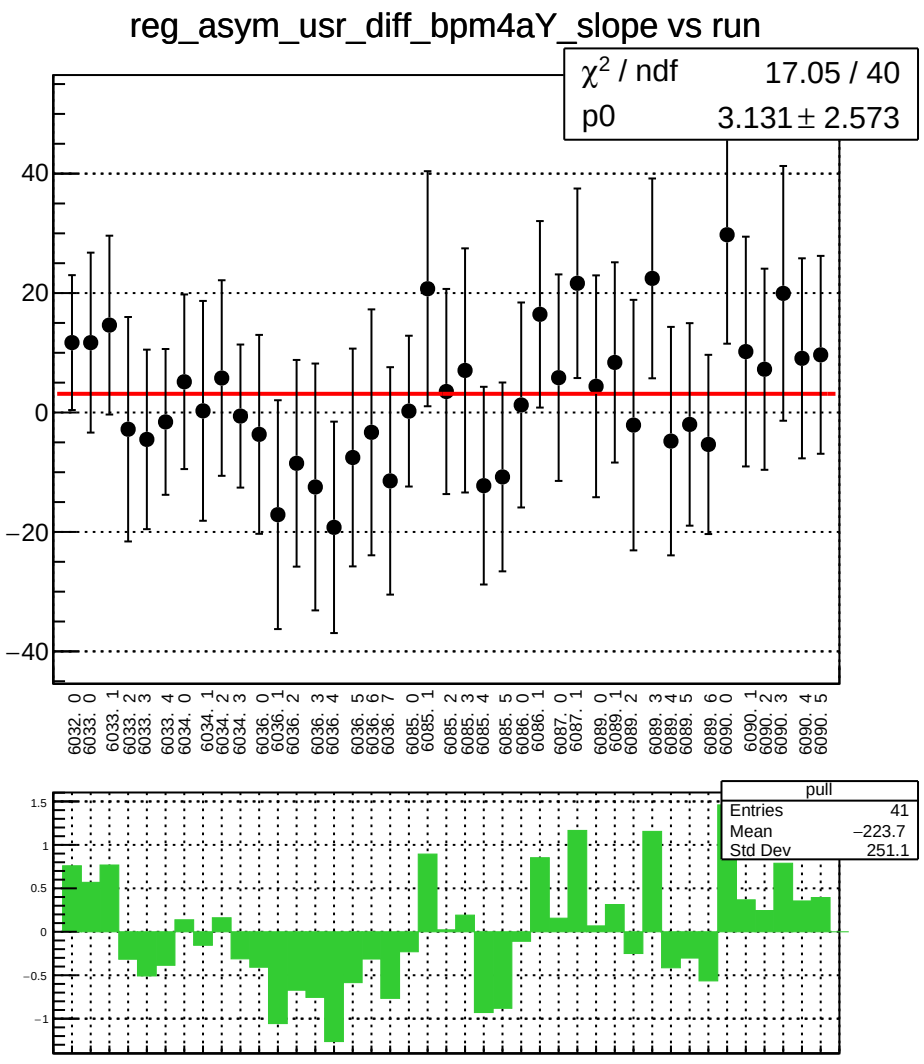

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 53.88 / 40
p0 8.932 ± 1.732
pull
Entries 41
Mean 186.8
Std Dev 158.8

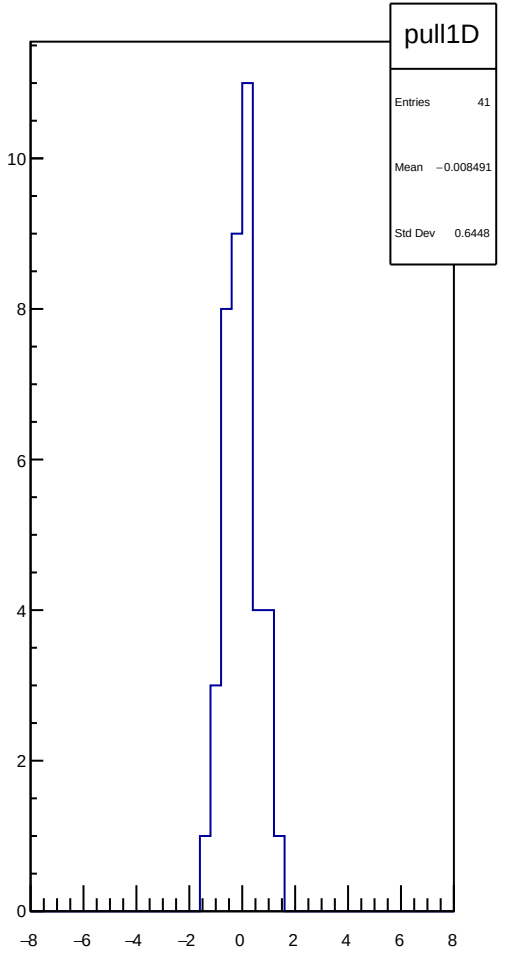

pull1D
Entries 41
Mean −0.02694
Std Dev 1.146

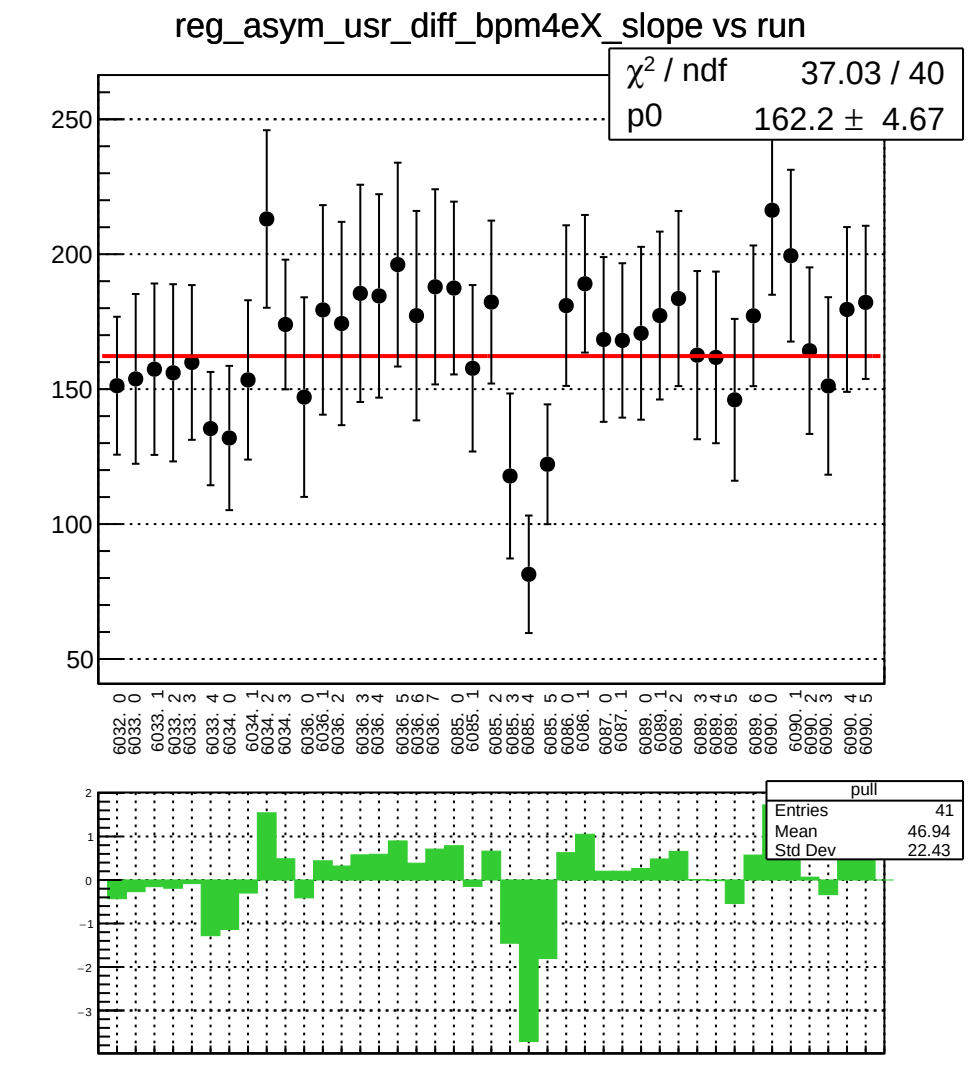

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 171.6 / 40
p0 −37.17 ± 0.1344
−32
−34
−36
−38
−40
−42
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 409.8
Std Dev 389.6
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 41
Mean −0.04485
Std Dev 2.045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

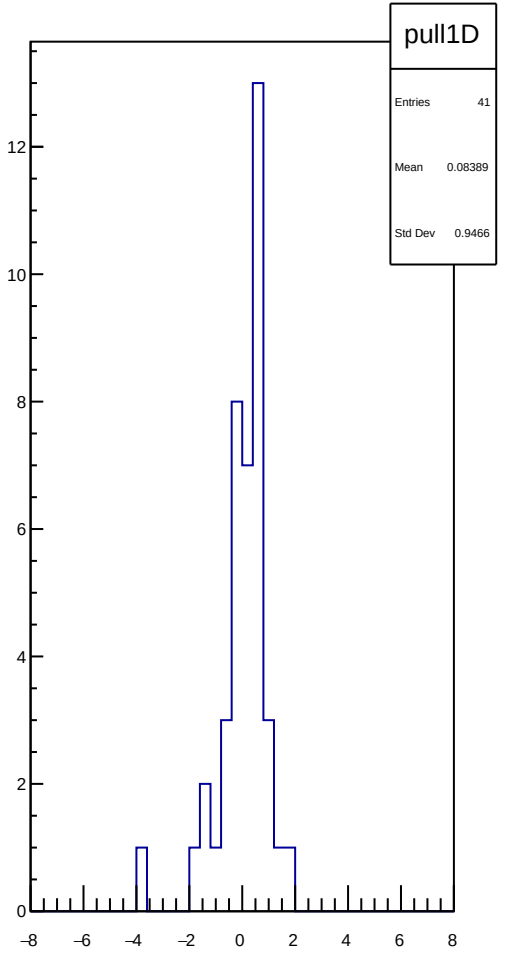

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 36.36 / 40
p0 −84.91 ± 4.155
pull
Entries 41
Mean 33.13
Std Dev 8.222

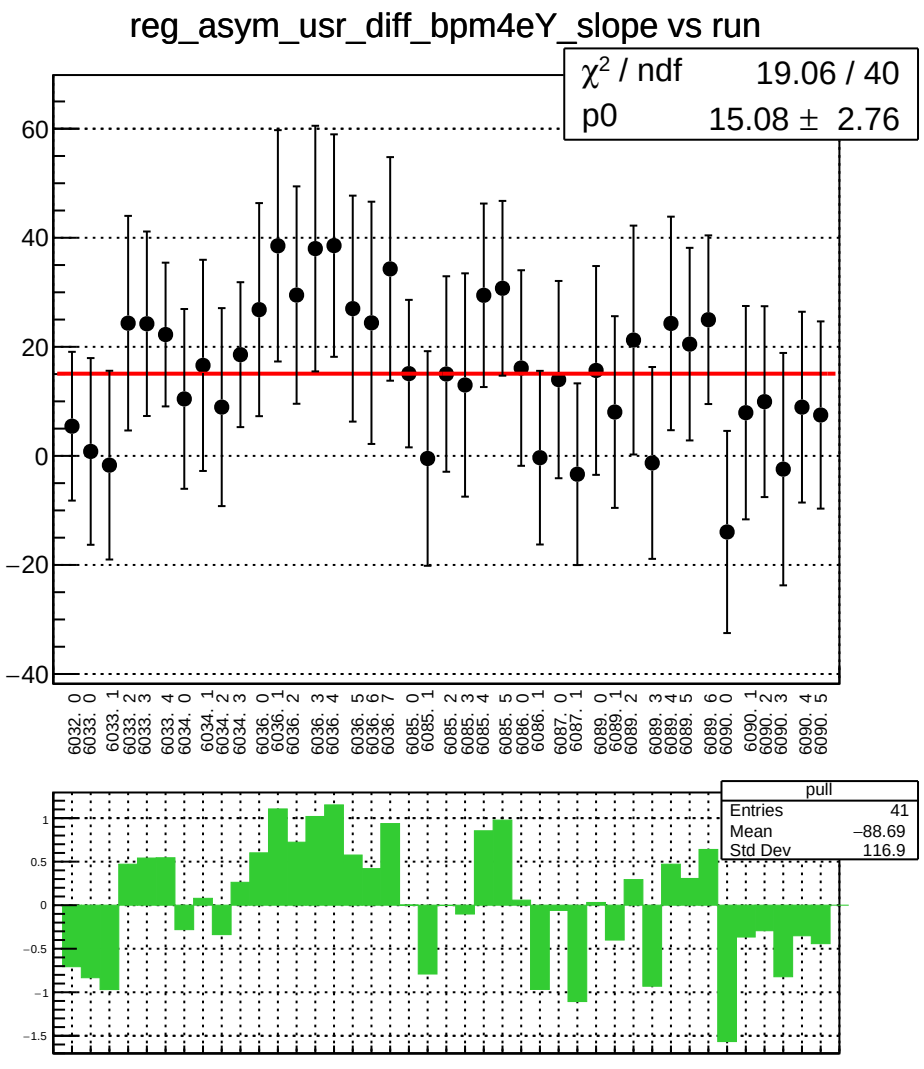

pull1D
Entries 41
Mean −0.08883
Std Dev 0.9375

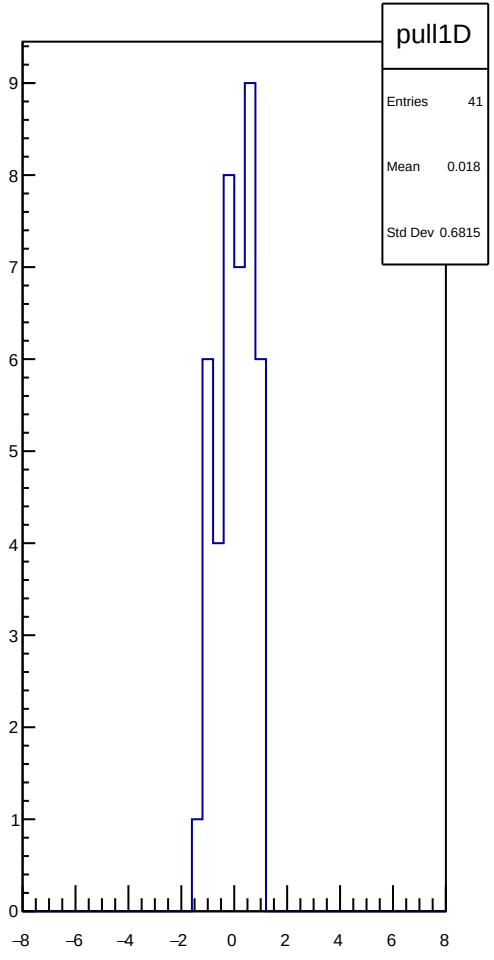

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 17.05 / 40
p0 3.131 ± 2.573
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −223.7
Std Dev 251.1
1.5
1
0.5
0
−0.5
−1

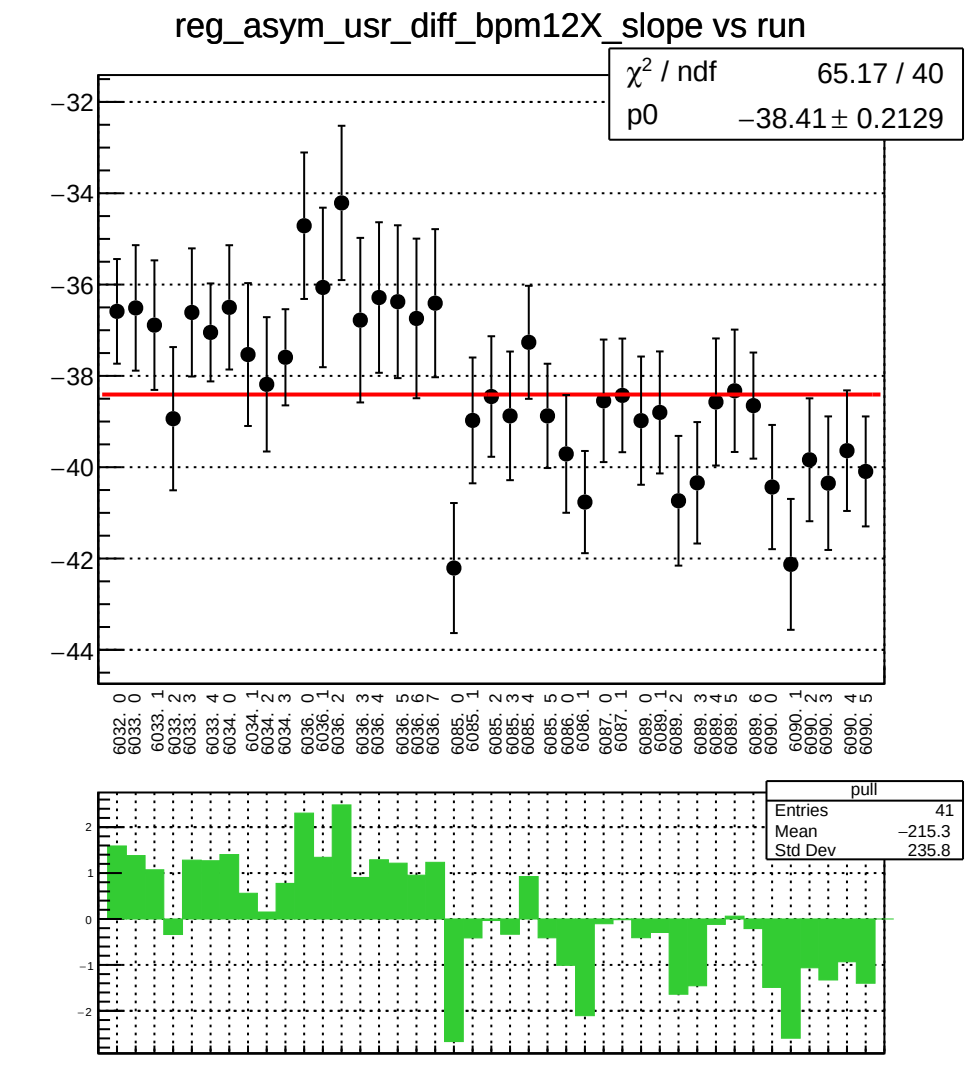

pull1D
Entries 41
Mean −0.008491
Std Dev 0.6448
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

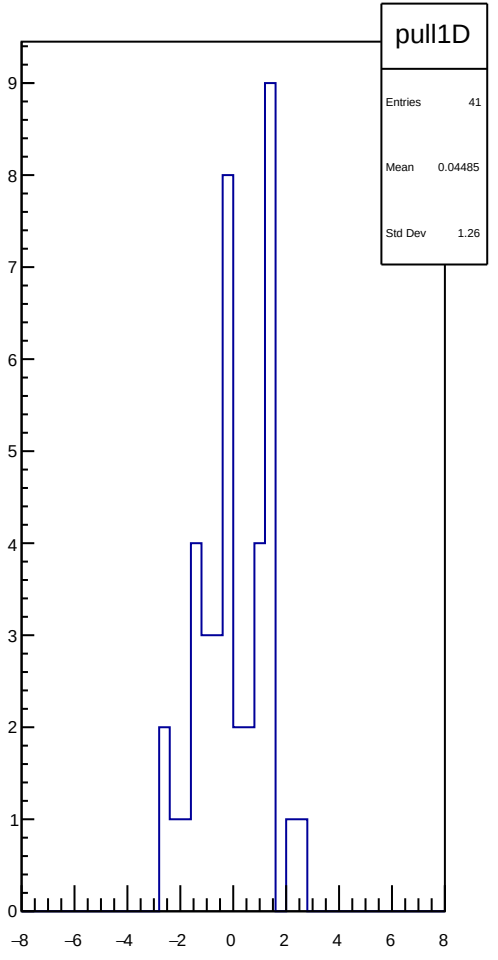

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 37.03 / 40
p0 162.2 ± 4.67
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 46.94
Std Dev 22.43
2
1
0
−1
−2
−3

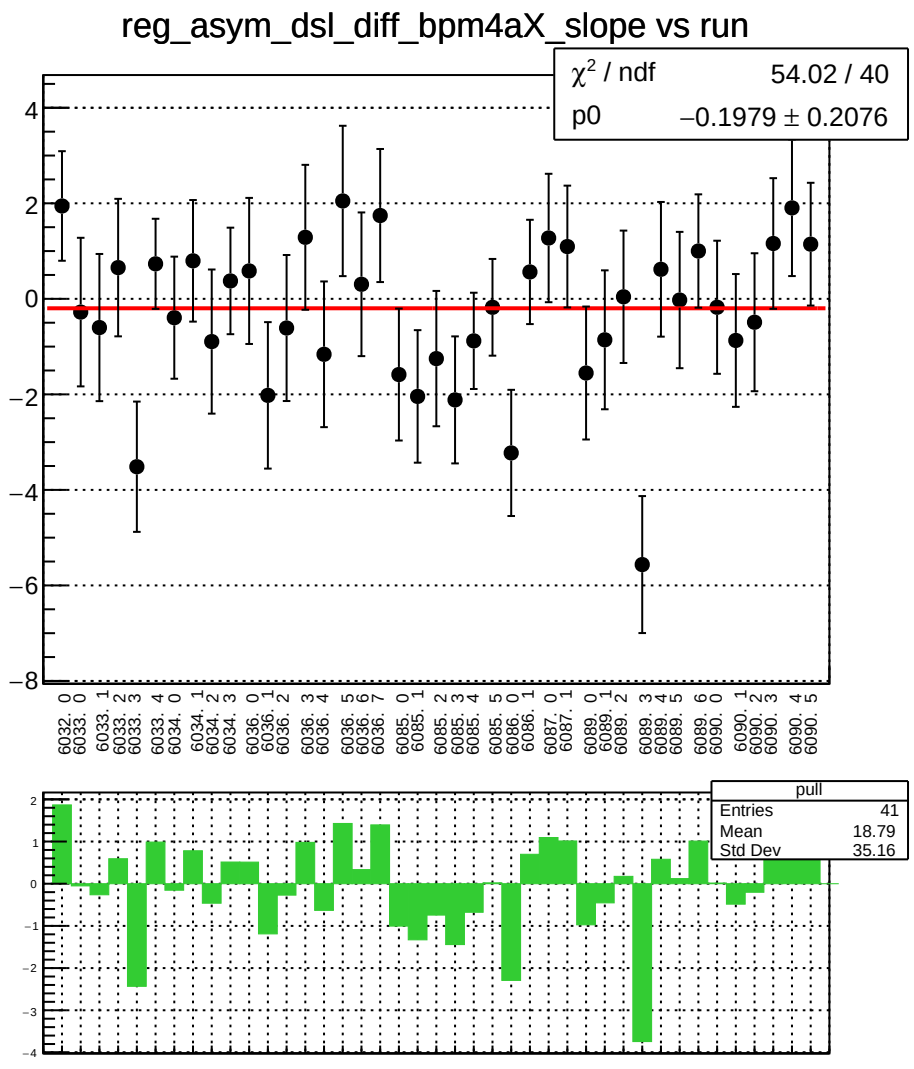

pull1D
Entries 41
Mean 0.08389
Std Dev 0.9466
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

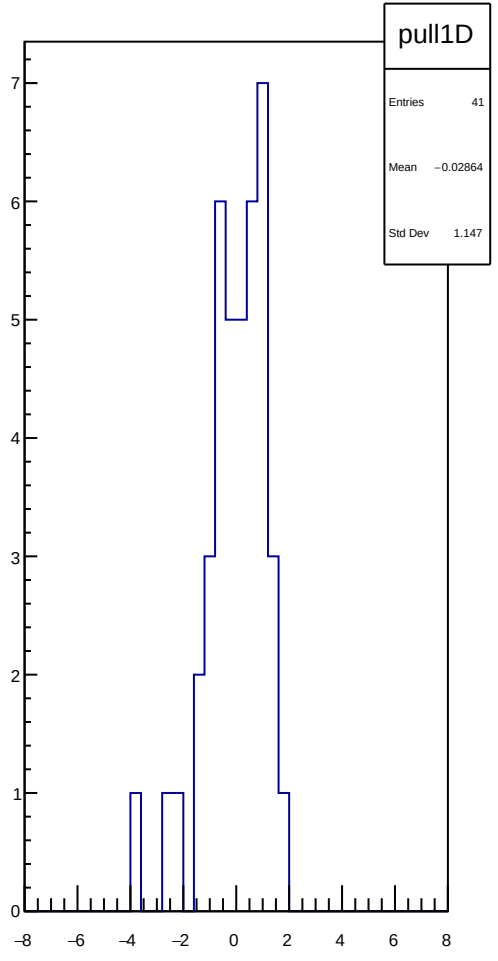

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 19.06 / 40
p0 15.08 ± 2.76
pull
Entries 41
Mean −88.69
Std Dev 116.9

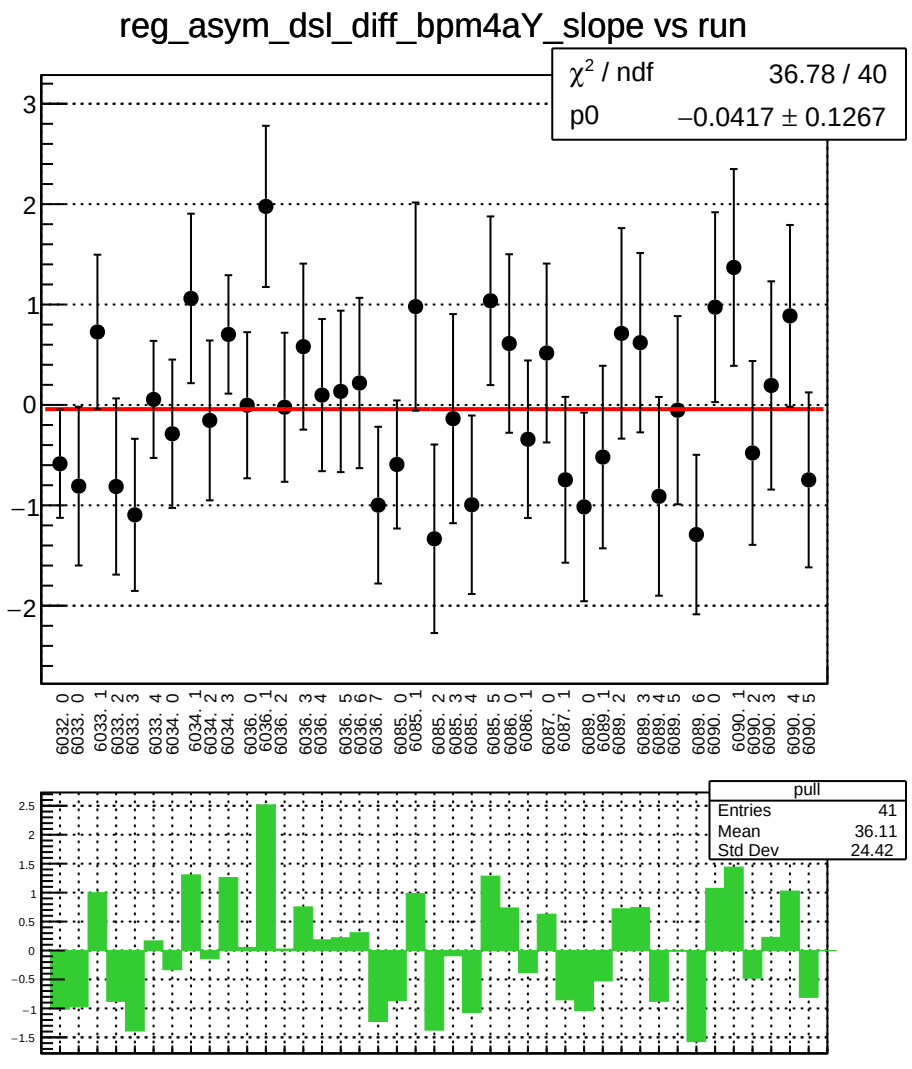

pull1D
Entries 41
Mean 0.018
Std Dev 0.6815

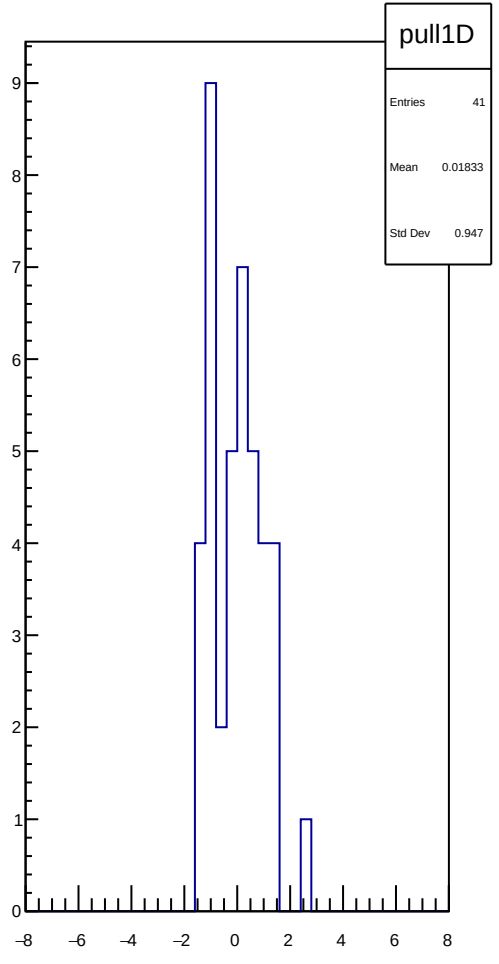

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 65.17 / 40
p0 −38.41 ± 0.2129
−32
−34
−36
−38
−40
−42
−44
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −215.3
Std Dev 235.8
2
1
0
−1
−2

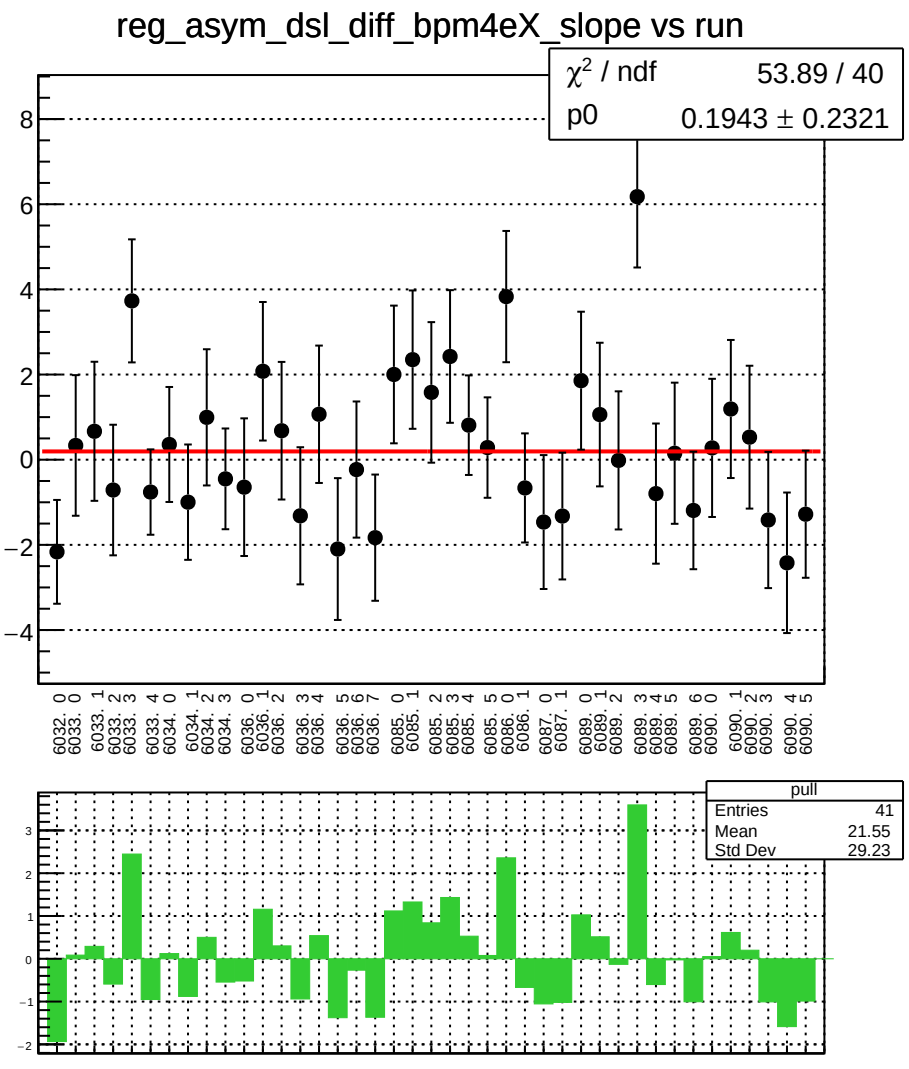

pull1D
Entries 41
Mean 0.04485
Std Dev 1.26
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

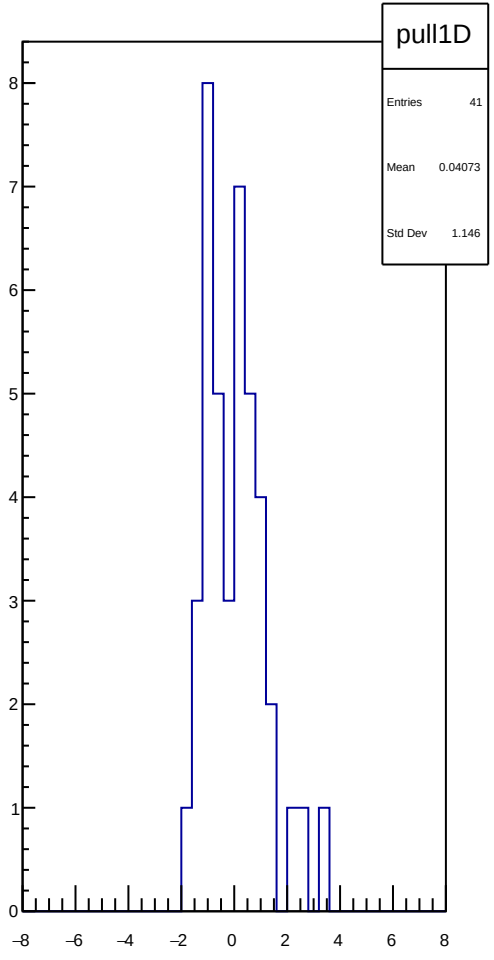

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 54.02 / 40
p0 −0.1979 ± 0.2076
pull
Entries 41
Mean 18.79
Std Dev 35.16

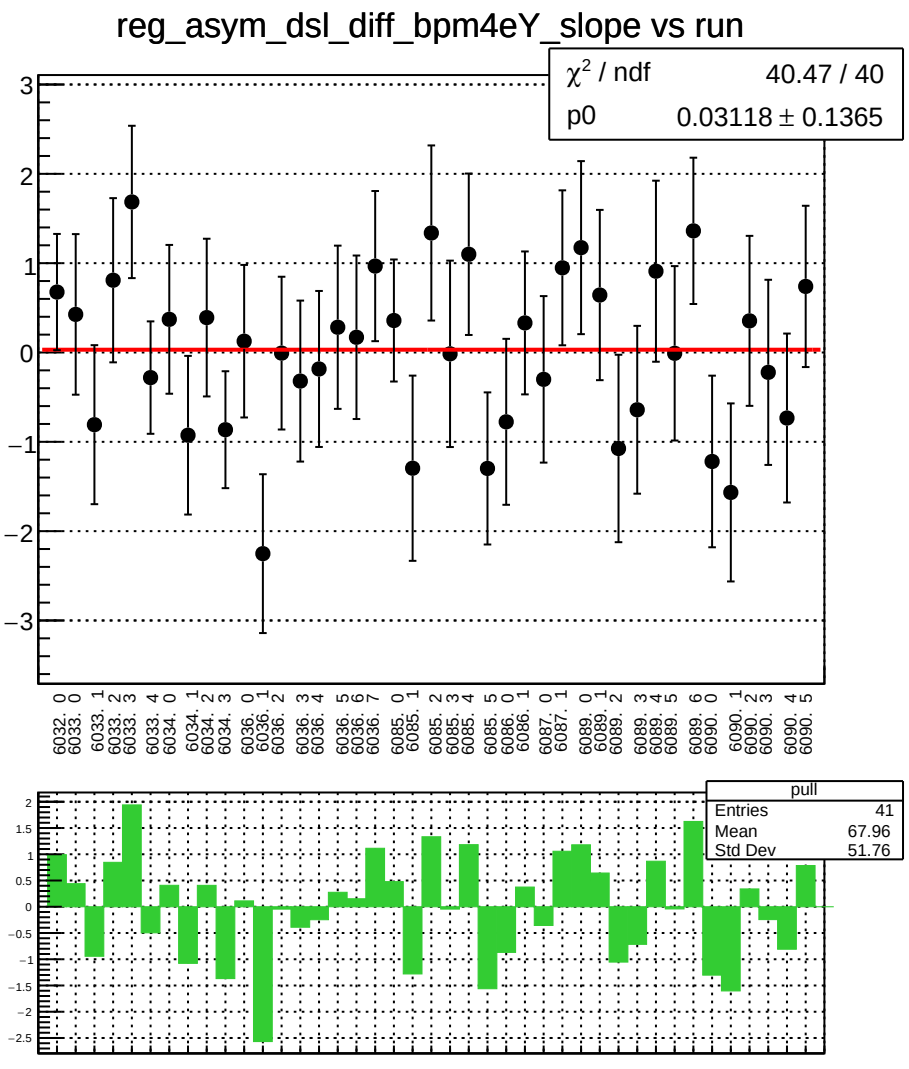

pull1D
Entries 41
Mean −0.02864
Std Dev 1.147

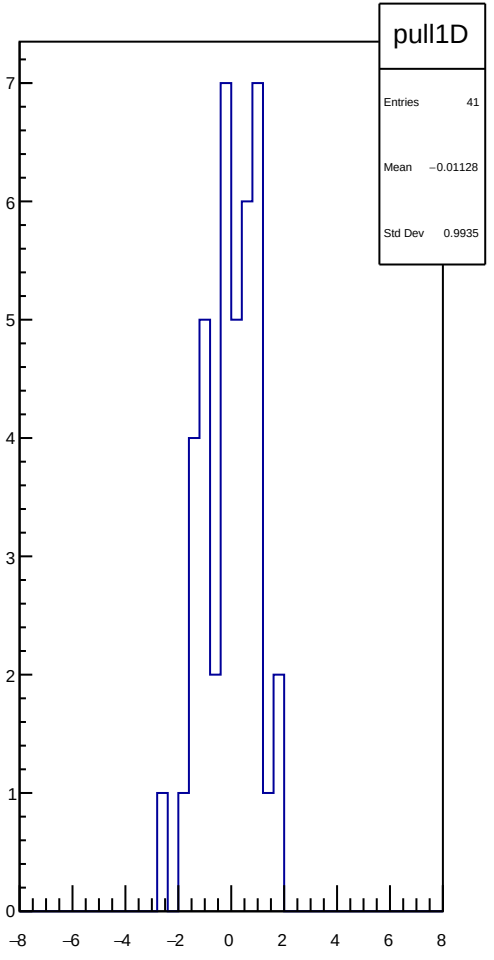

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 36.78 / 40
p0 −0.0417 ± 0.1267
pull
Entries 41
Mean 36.11
Std Dev 24.42

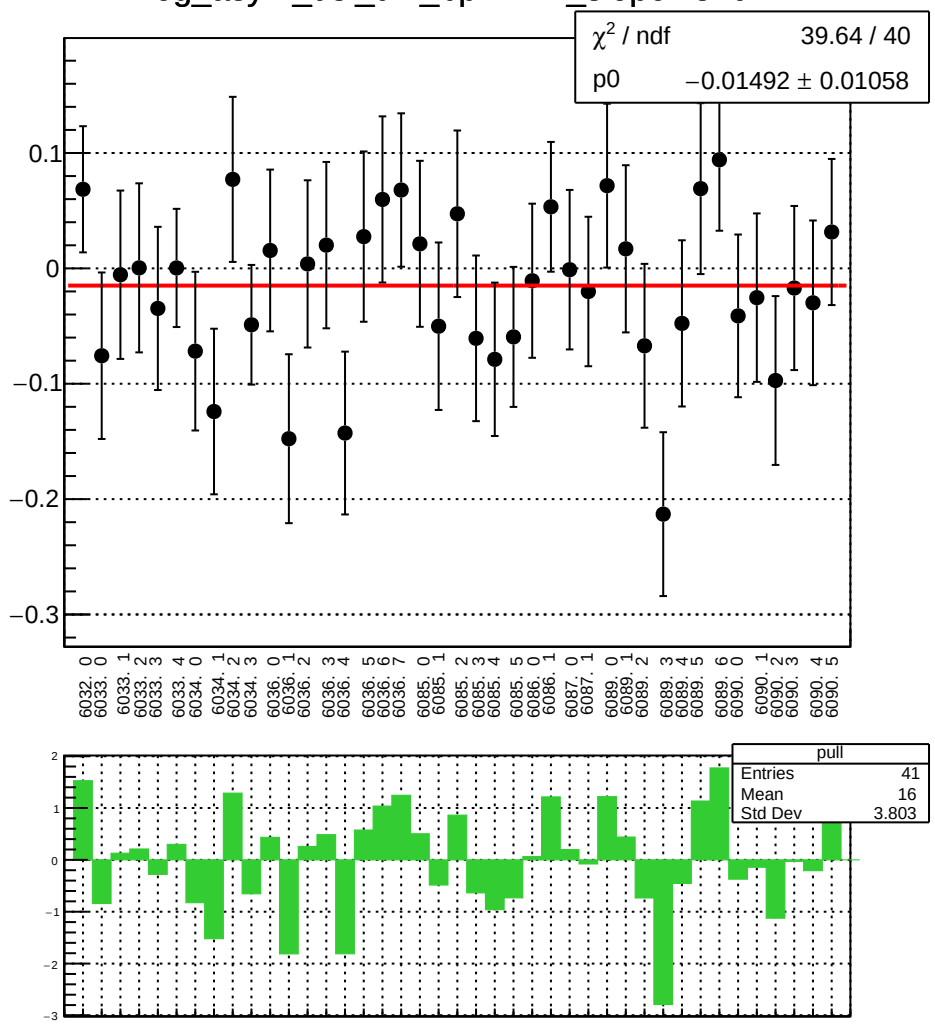

pull1D
Entries 41
Mean 0.01833
Std Dev 0.947

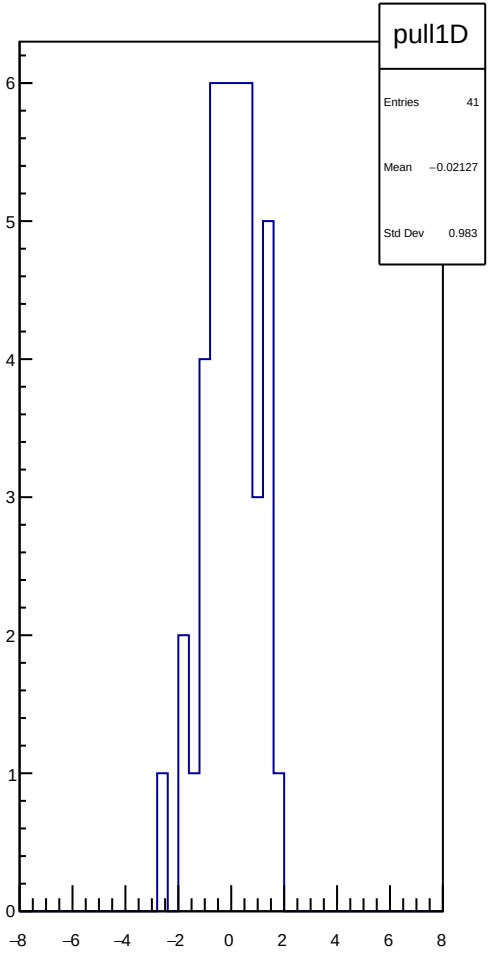

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 53.89 / 40
p0 0.1943 ± 0.2321
pull
Entries 41
Mean 21.55
Std Dev 29.23

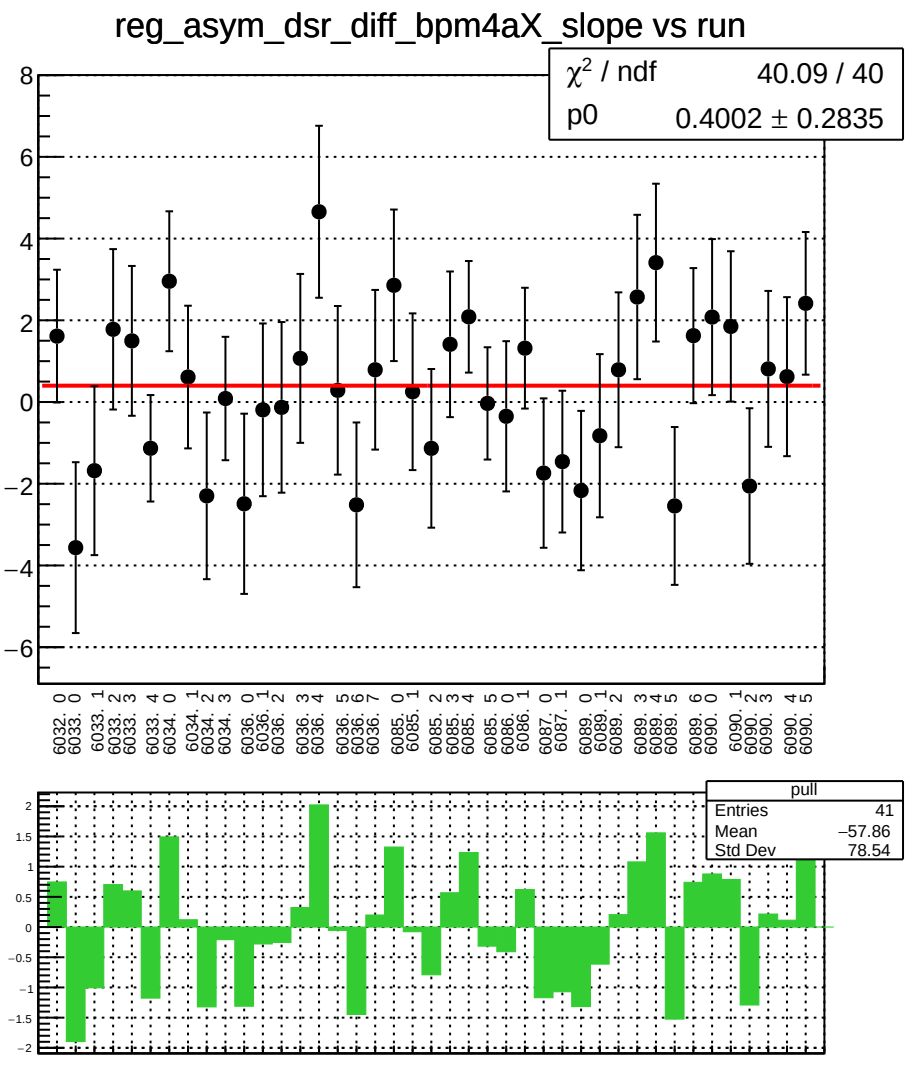

pull1D
Entries 41
Mean 0.04073
Std Dev 1.146

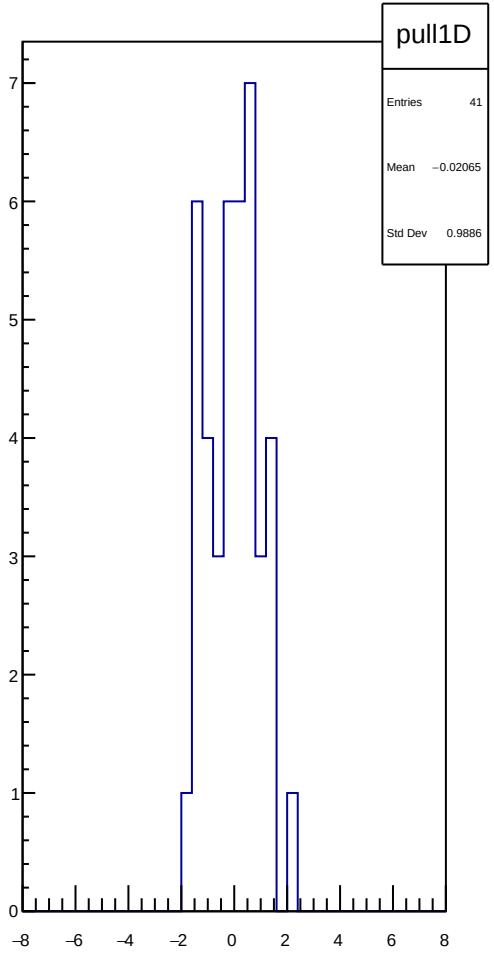

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 40.47 / 40
p0 0.03118 ± 0.1365
pull
Entries 41
Mean 67.96
Std Dev 51.76

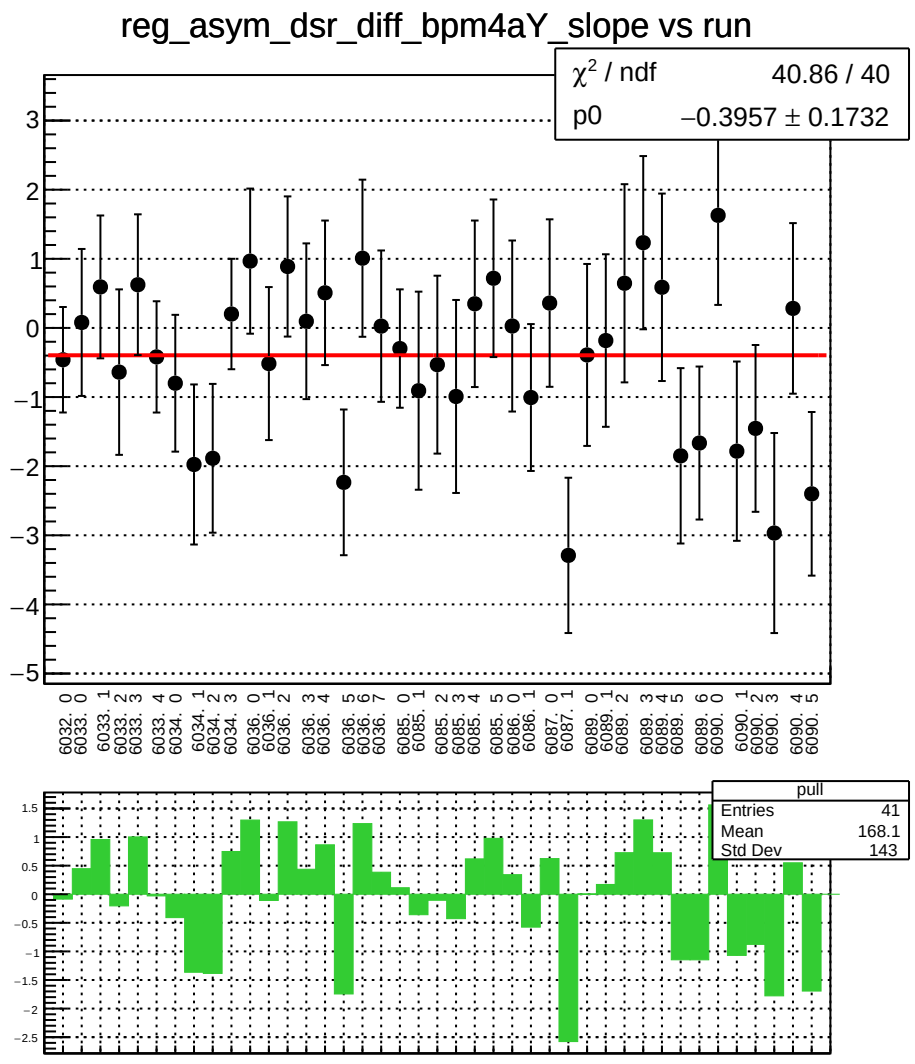

pull1D
Entries 41
Mean −0.01128
Std Dev 0.9935

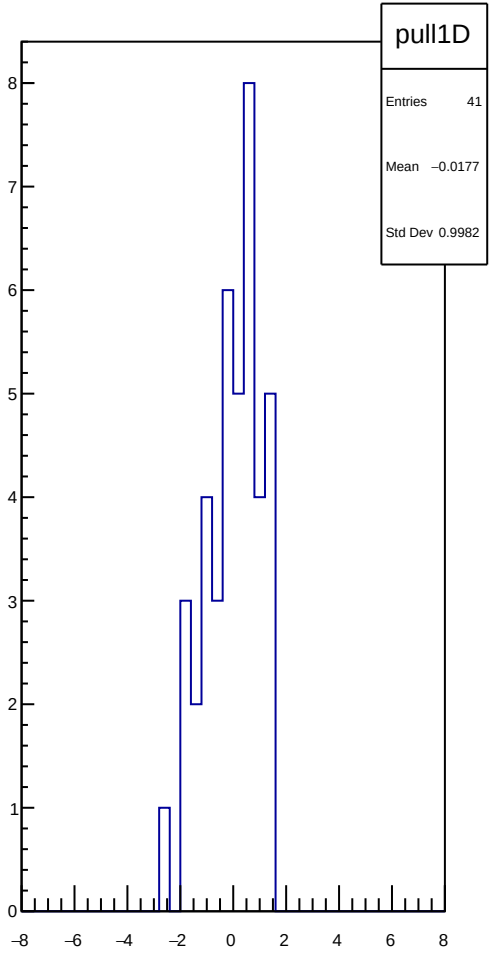

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 39.64 / 40
p0 −0.01492 ± 0.01058
pull
Entries 41
Mean 16
Std Dev 3.803

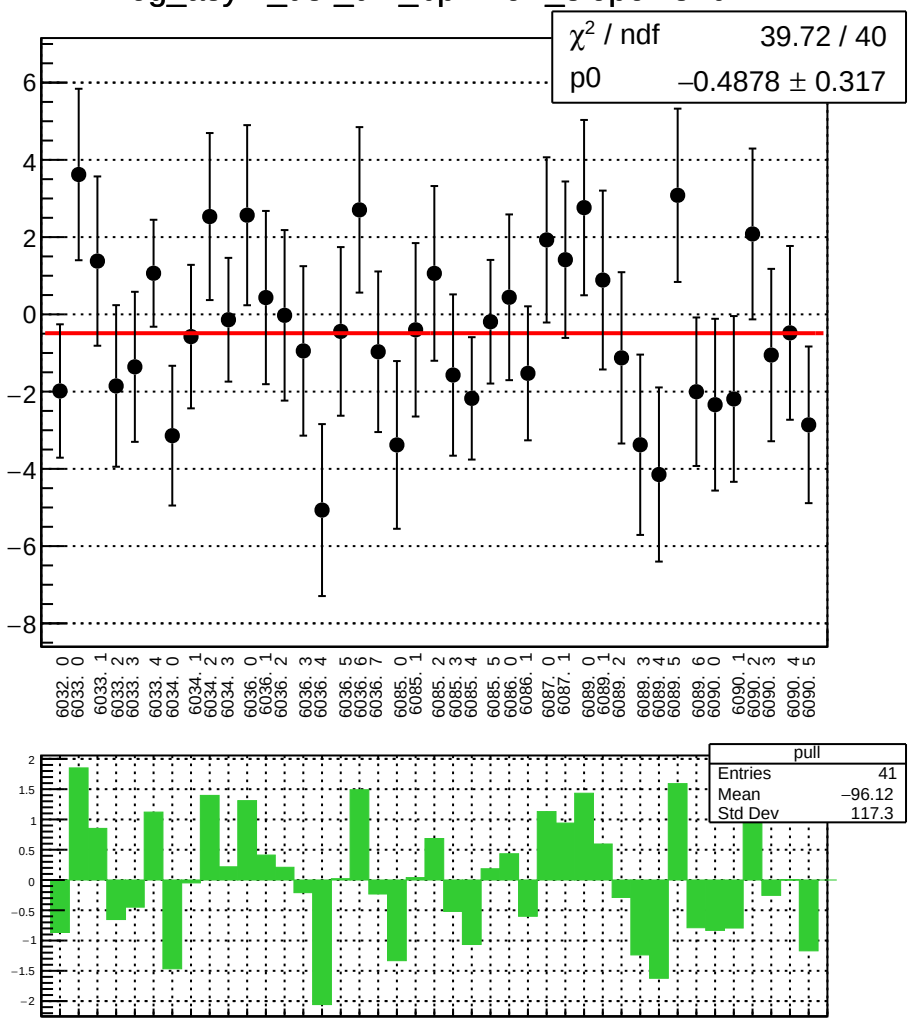

pull1D
Entries 41
Mean −0.02127
Std Dev 0.983

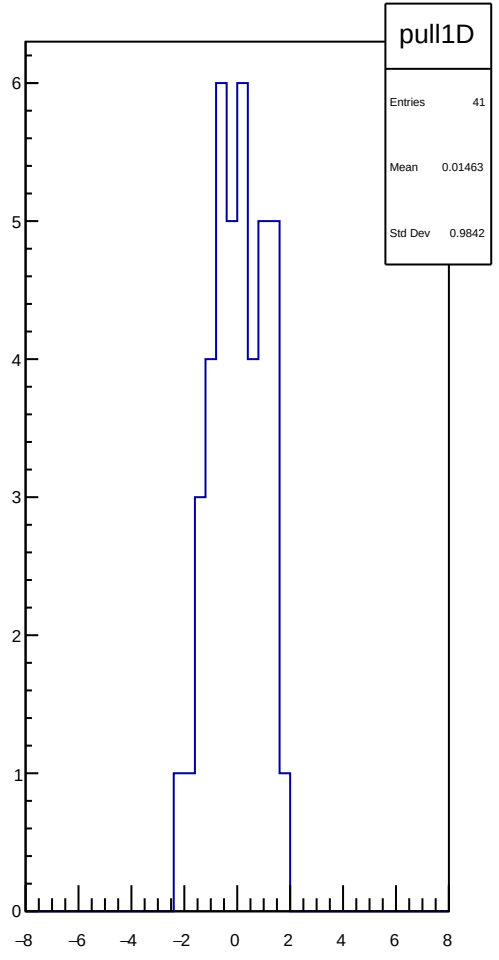

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 40.09 / 40
p0 0.4002 ± 0.2835
pull
Entries 41
Mean −57.86
Std Dev 78.54

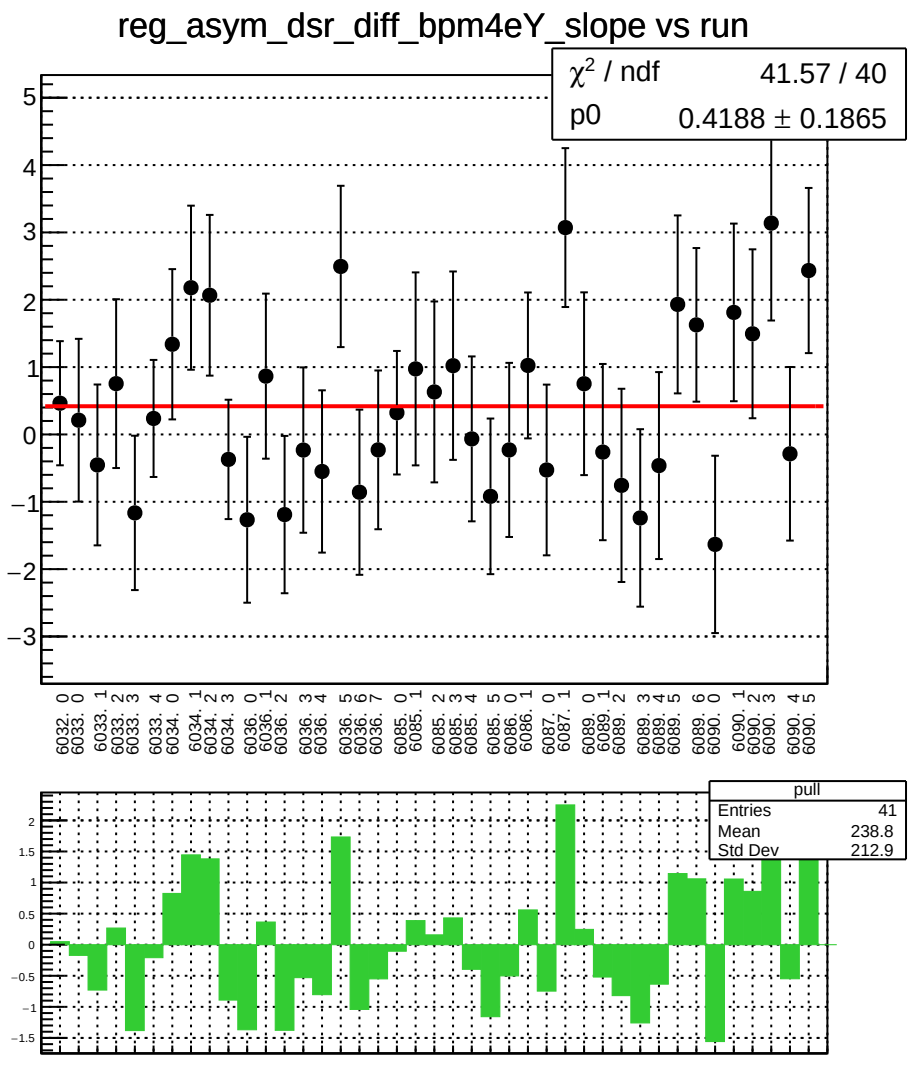

pull1D
Entries 41
Mean −0.02065
Std Dev 0.9886

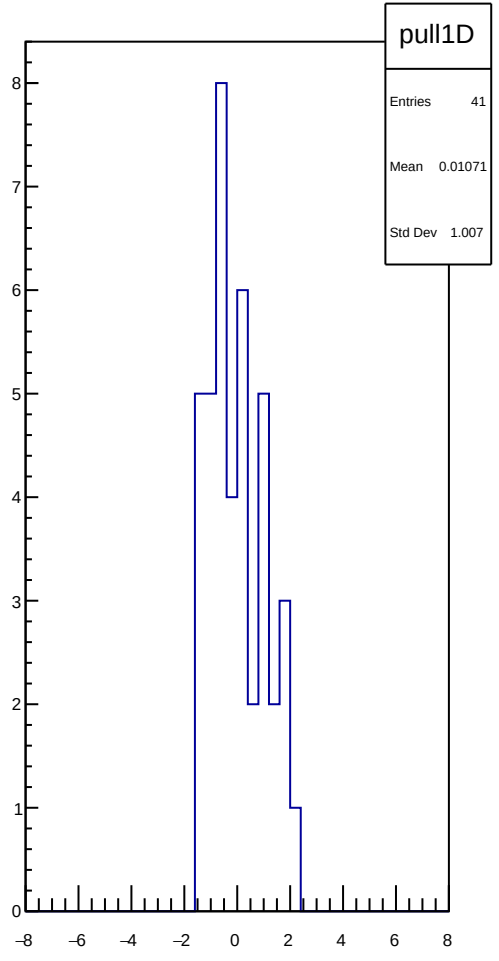

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 40.86 / 40
p0 −0.3957 ± 0.1732
pull
Entries 41
Mean 168.1
Std Dev 143

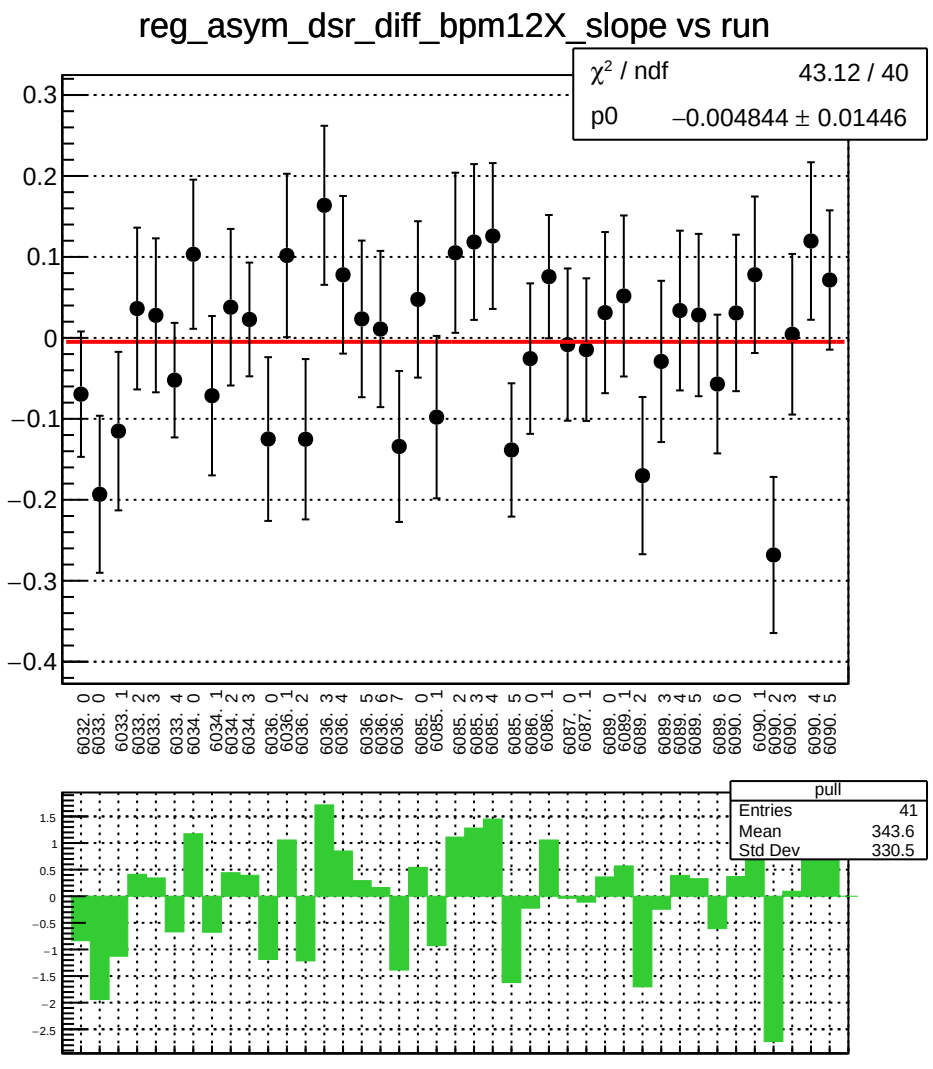

pull1D
Entries 41
Mean −0.0177
Std Dev 0.9982

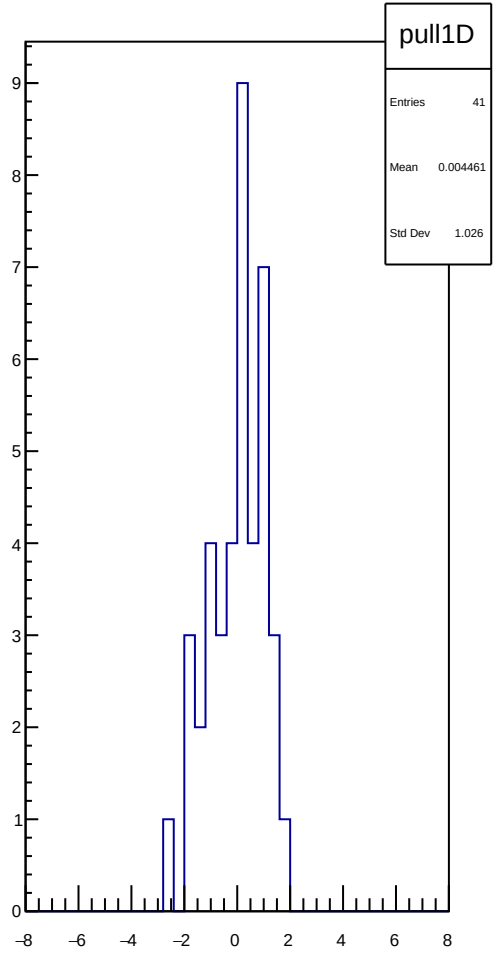

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 39.72 / 40
p0 −0.4878 ± 0.317
pull
Entries 41
Mean −96.12
Std Dev 117.3

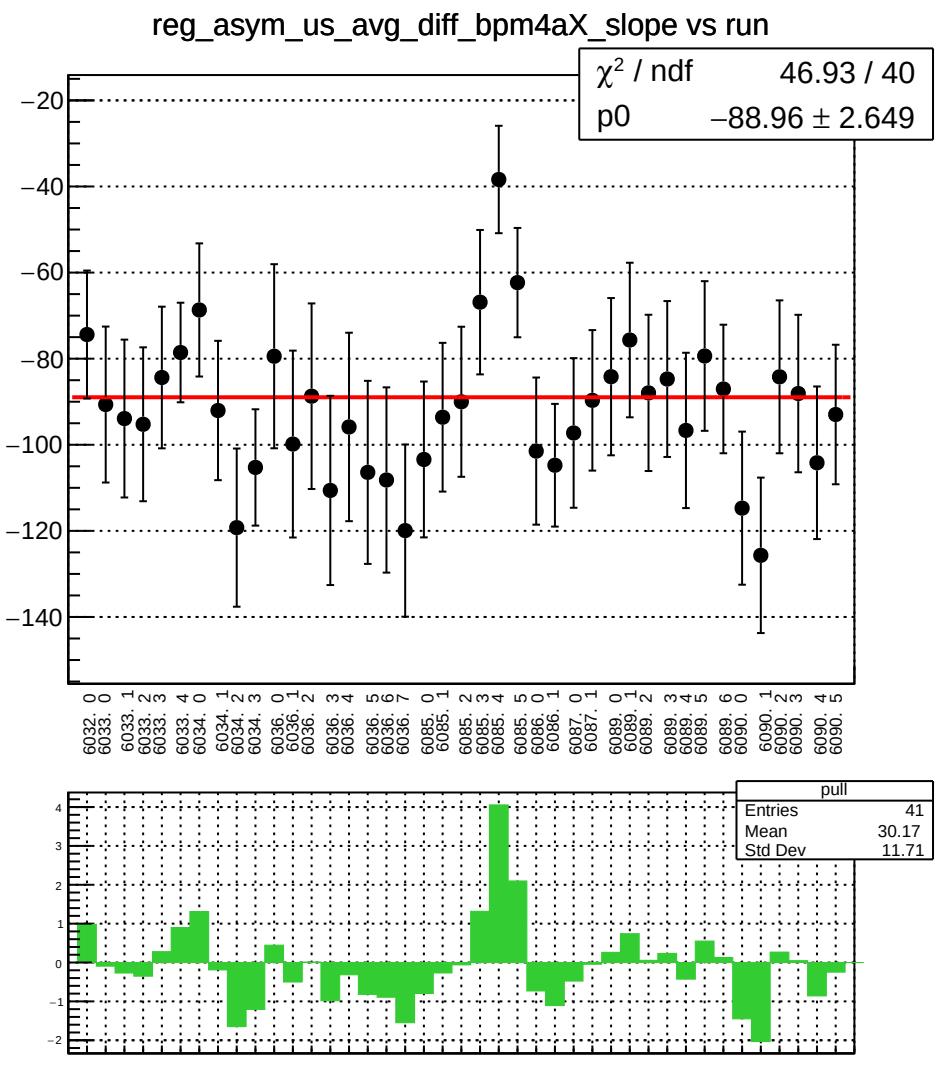

pull1D
Entries 41
Mean 0.01463
Std Dev 0.9842

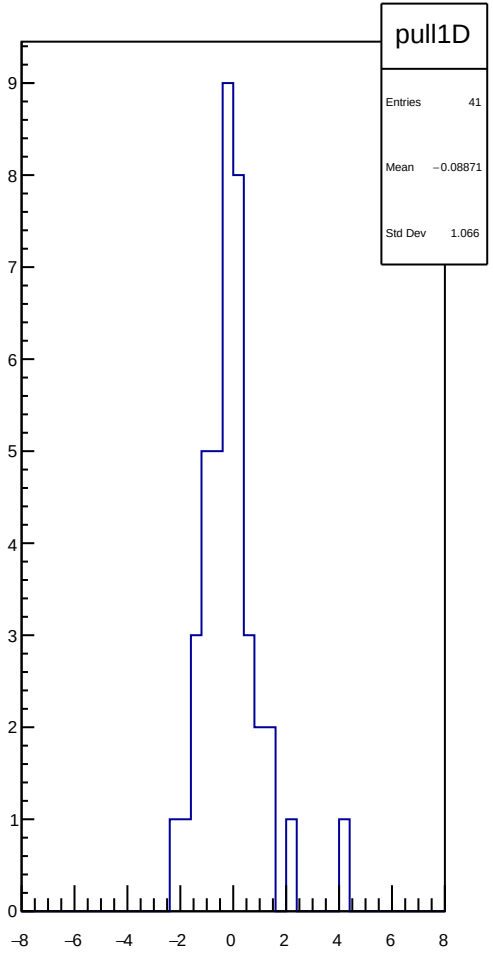

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 41.57 / 40
p0 0.4188 ± 0.1865
pull
Entries 41
Mean 238.8
Std Dev 212.9

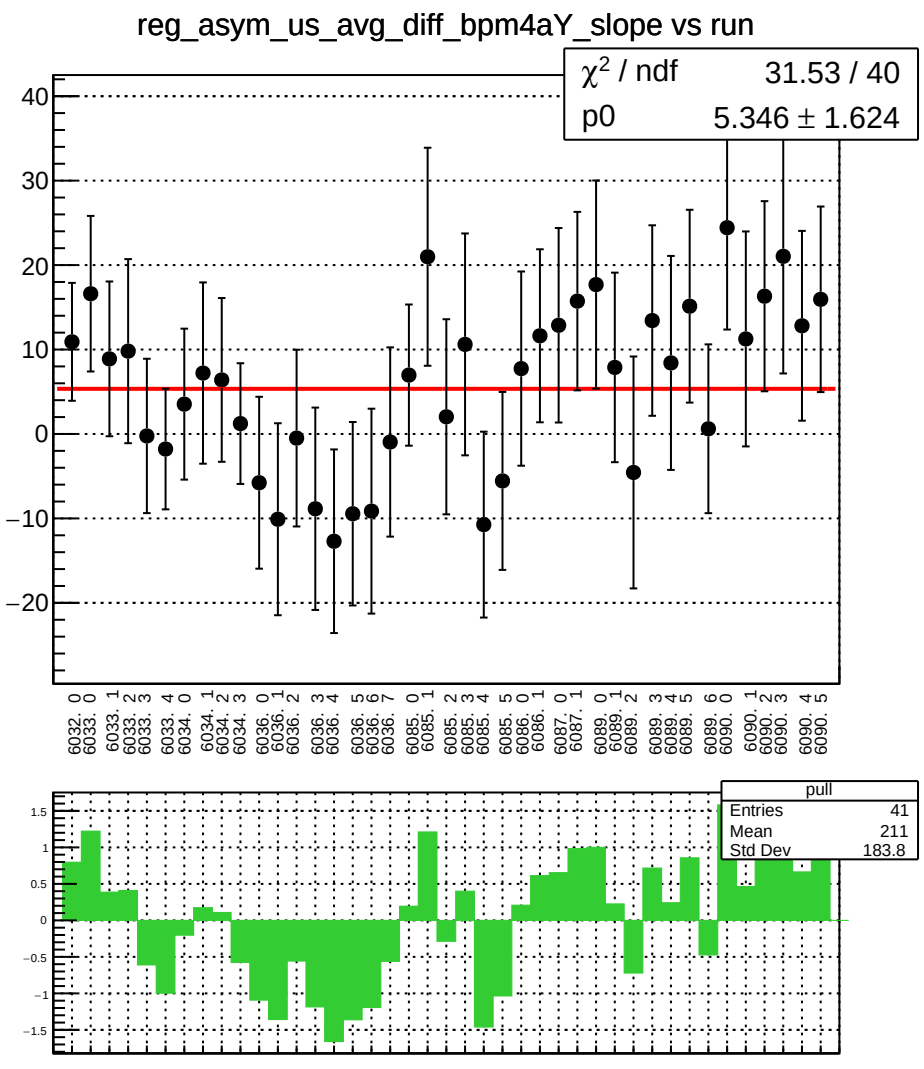

pull1D
Entries 41
Mean 0.01071
Std Dev 1.007

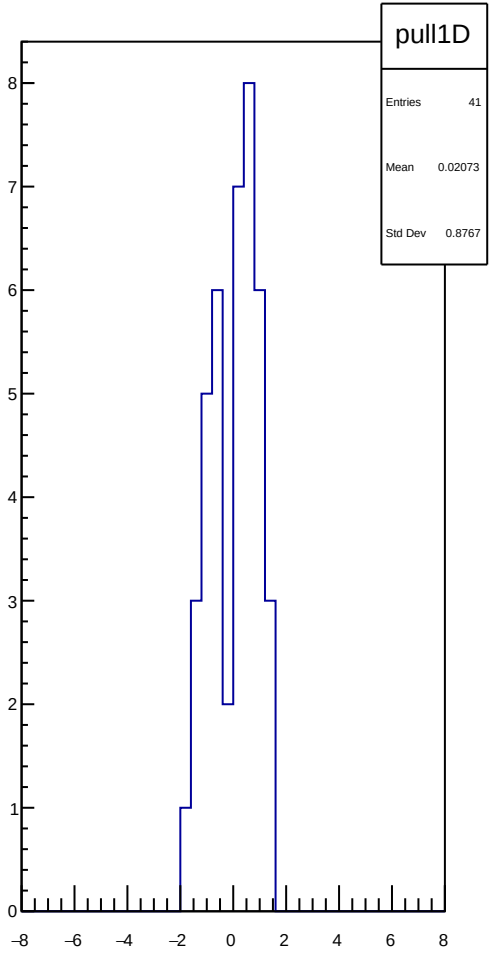

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 43.12 / 40
p0 −0.004844 ± 0.01446
pull
Entries 41
Mean 343.6
Std Dev 330.5

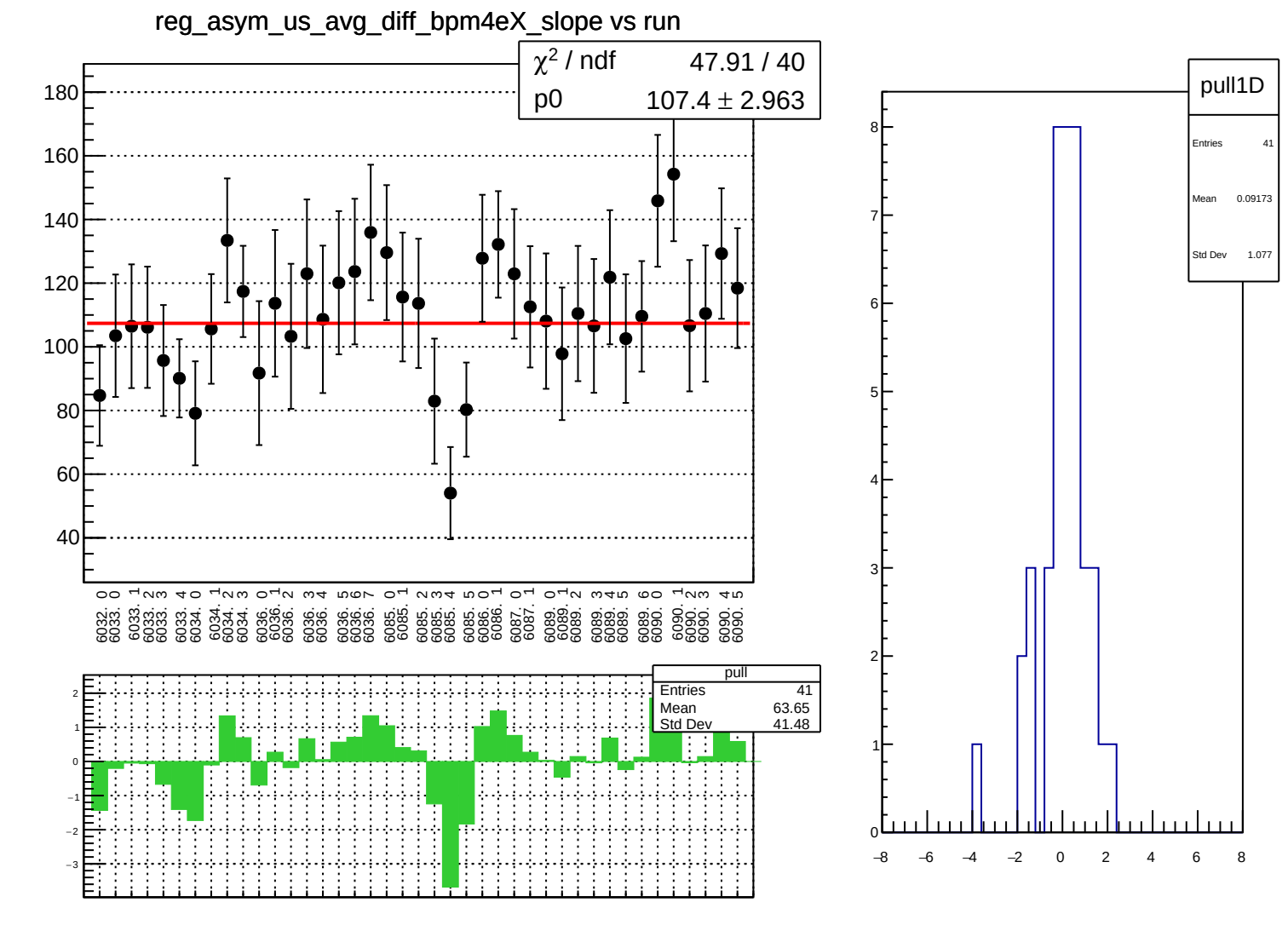

pull1D
Entries 41
Mean 0.004461
Std Dev 1.026

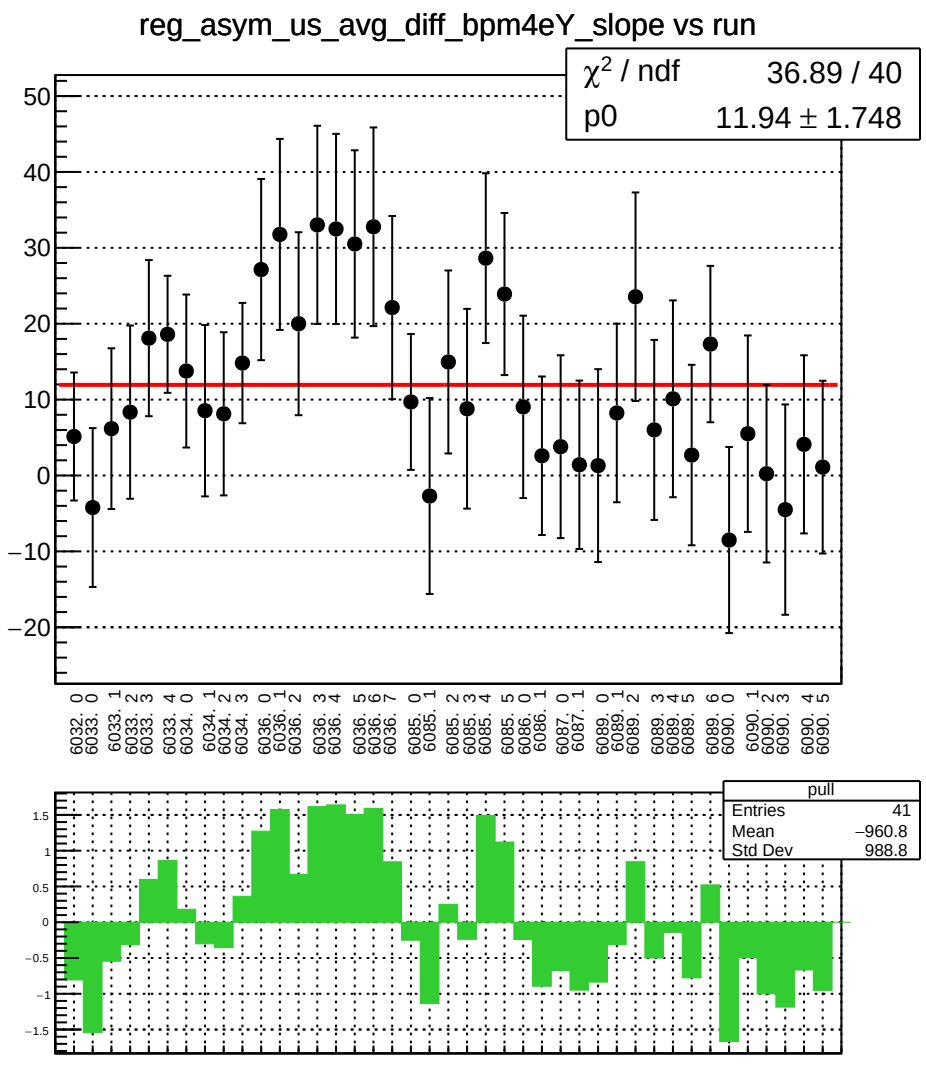

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.93 / 40
p0 −88.96 ± 2.649
pull
Entries 41
Mean 30.17
Std Dev 11.71

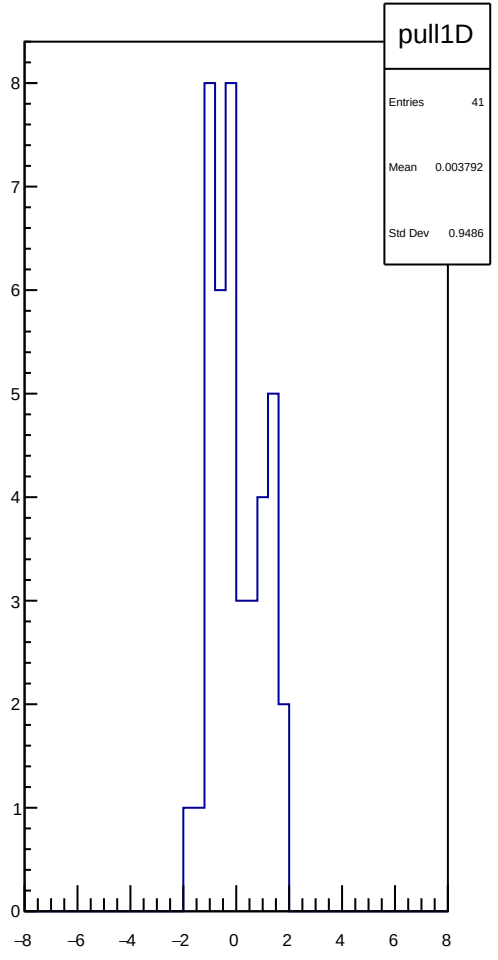

pull1D
Entries 41
Mean −0.08871
Std Dev 1.066

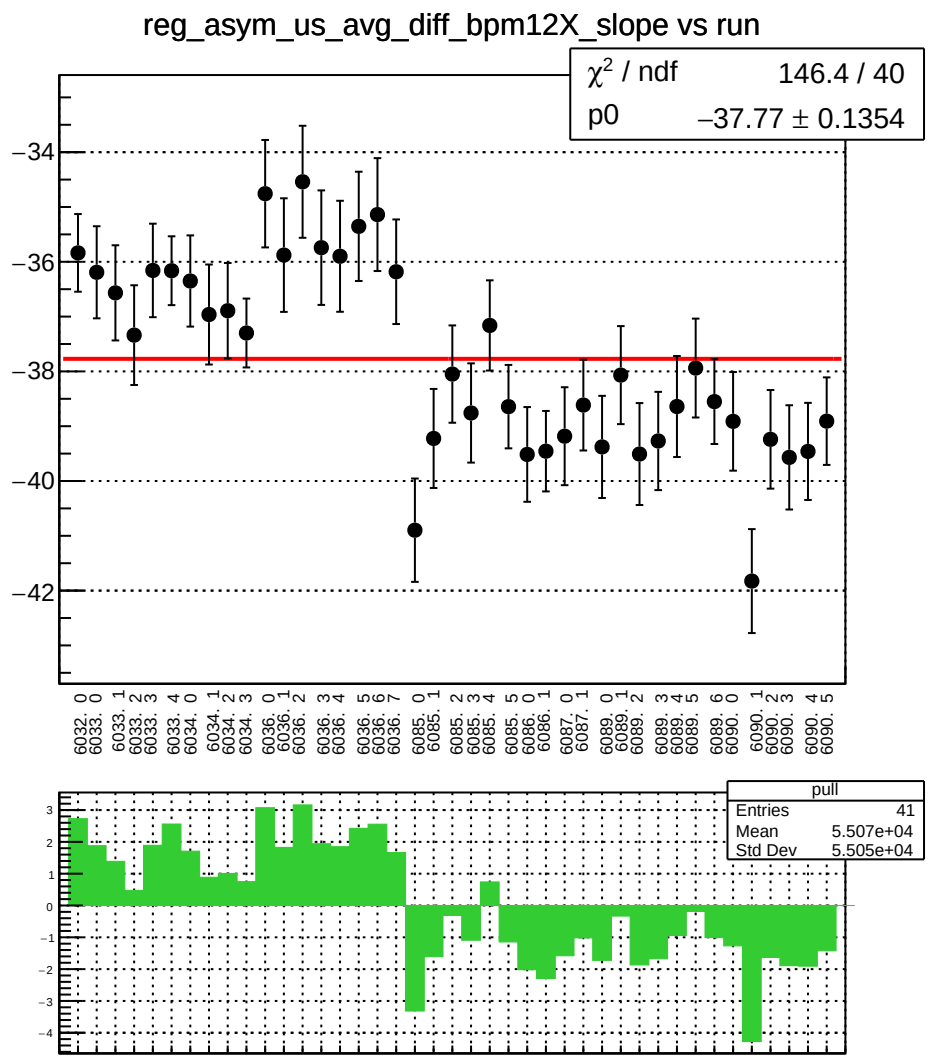

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.53 / 40
p0 5.346 ± 1.624
pull
Entries 41
Mean 211
Std Dev 183.8

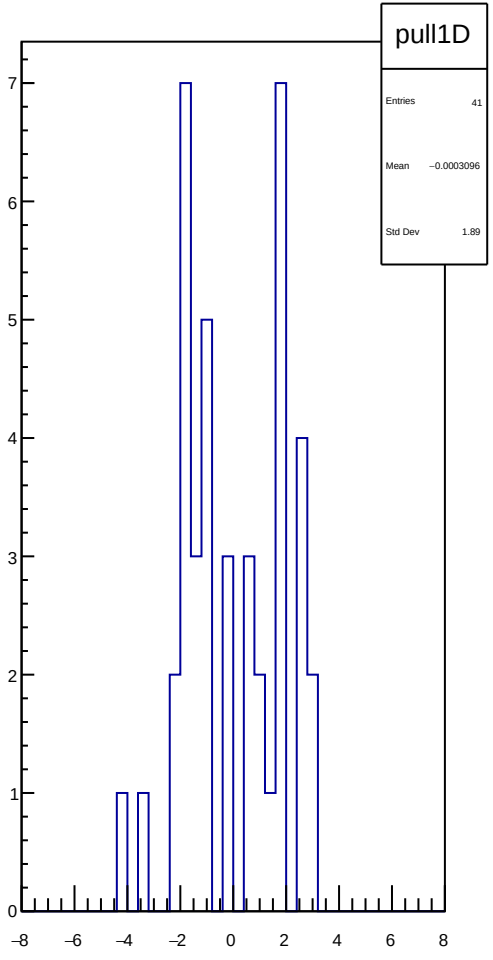

pull1D
Entries 41
Mean 0.02073
Std Dev 0.8767

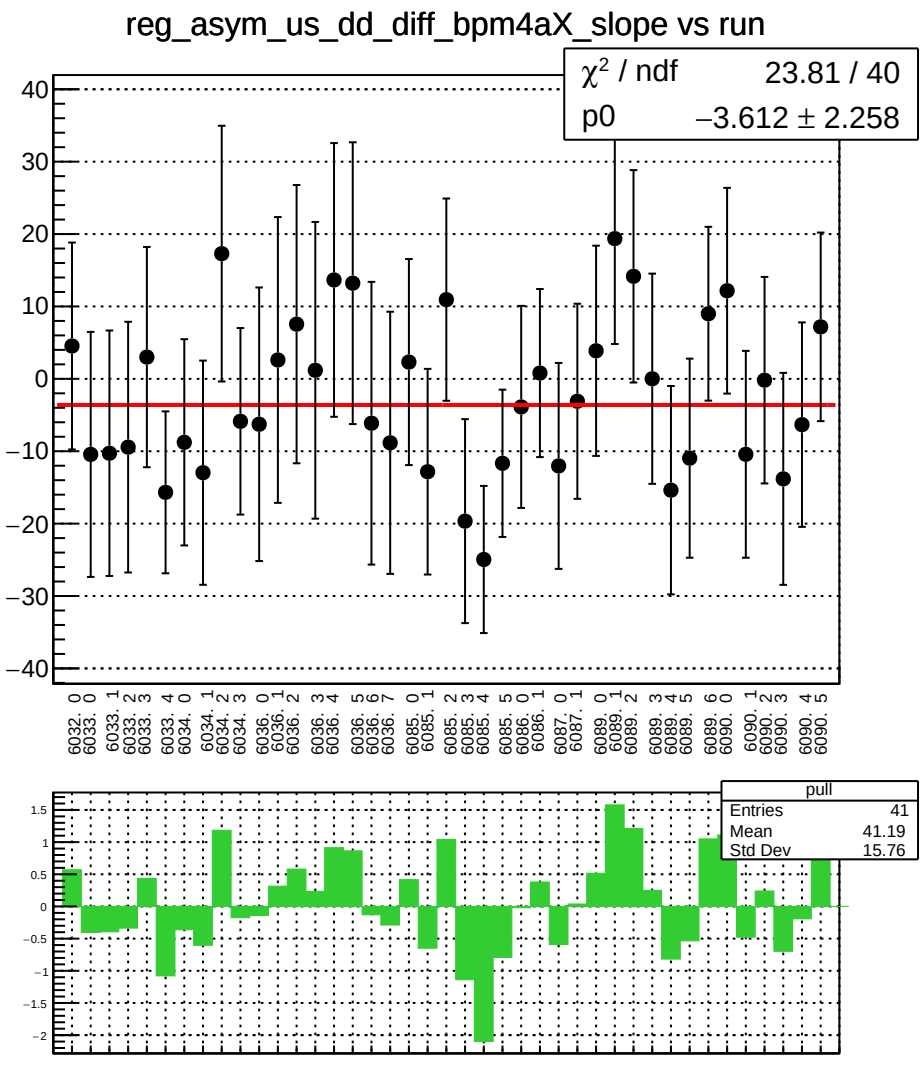

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.91 / 40
p0 107.4 ± 2.963
pull
Entries 41
Mean 63.65
Std Dev 41.48
pull1D
Entries 41
Mean 0.09173
Std Dev 1.077

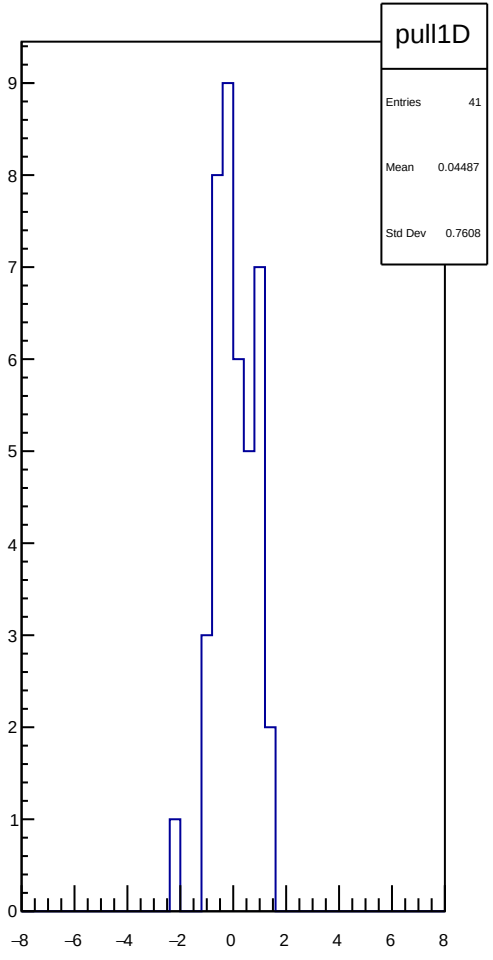

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.89 / 40
p0 11.94 ± 1.748
pull
Entries 41
Mean −960.8
Std Dev 988.8

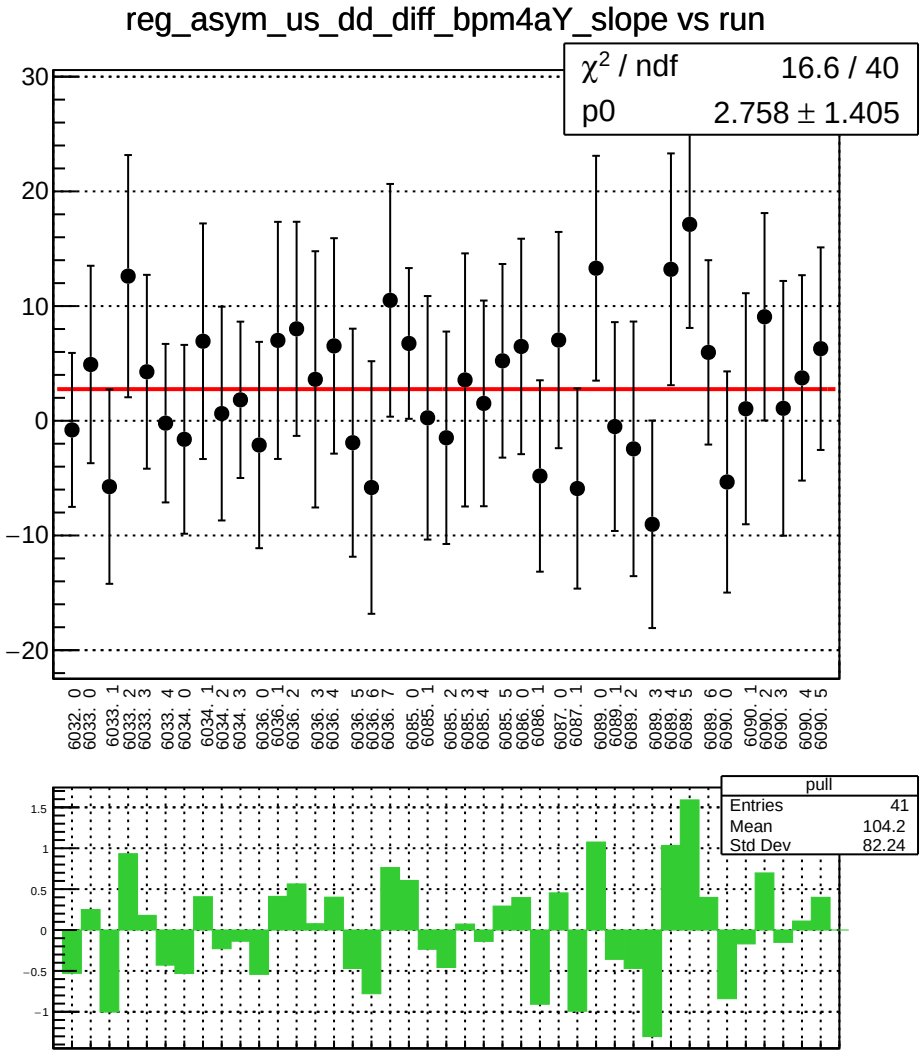

pull1D
Entries 41
Mean 0.003792
Std Dev 0.9486

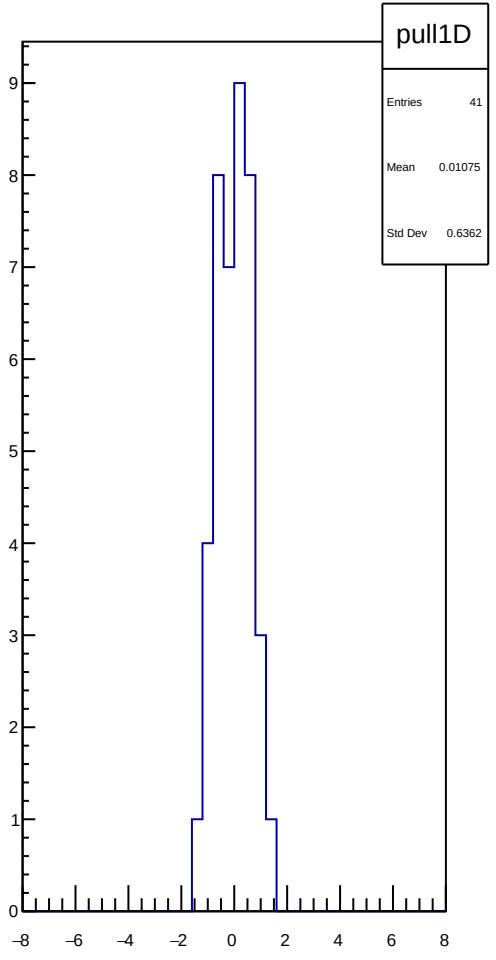

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 146.4 / 40
p0 −37.77 ± 0.1354
pull
Entries 41
Mean 5.507e+04
Std Dev 5.505e+04

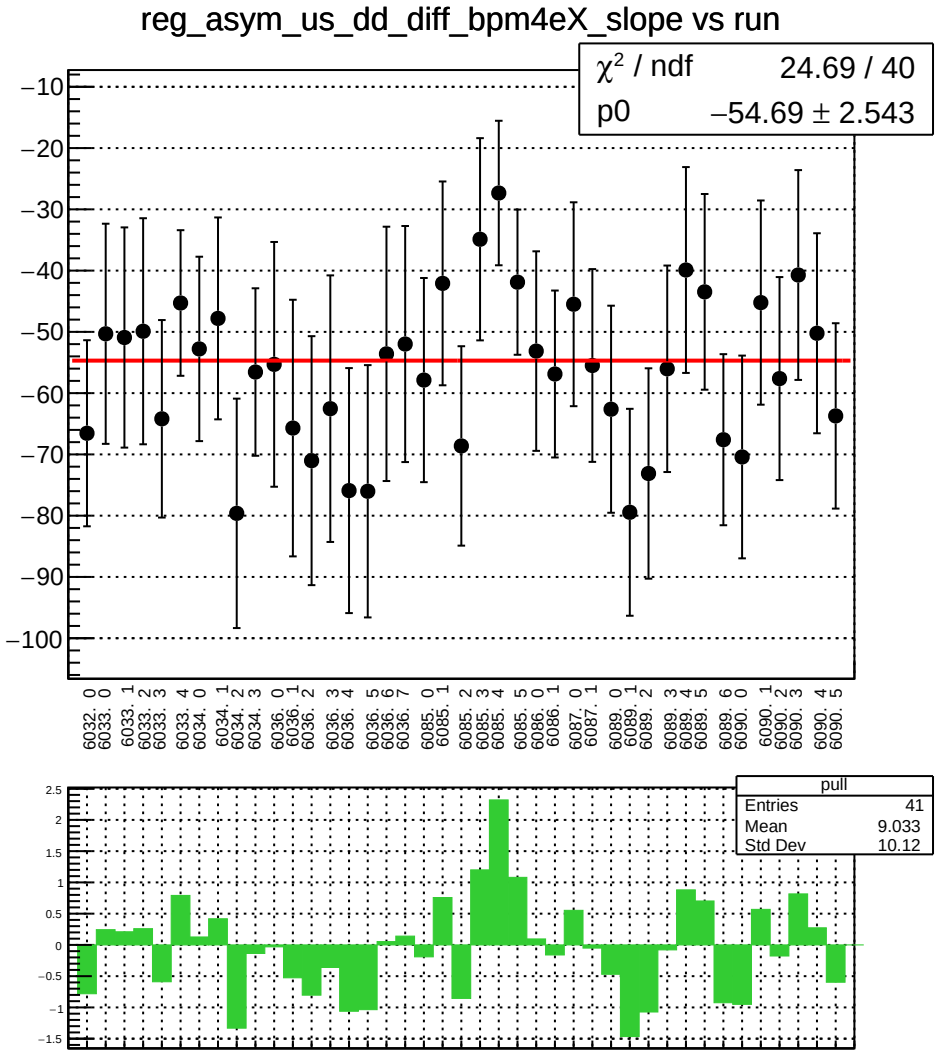

pull1D
Entries 41
Mean −0.0003096
Std Dev 1.89

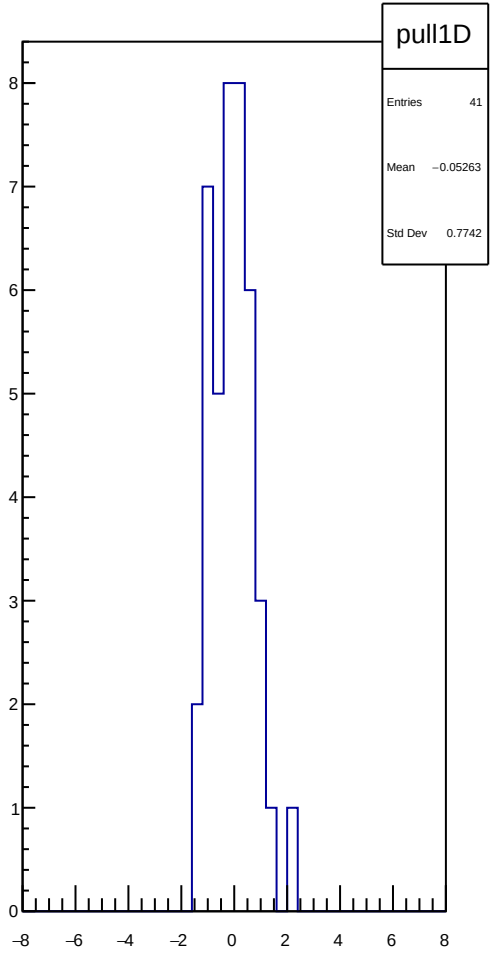

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.81 / 40
p0 −3.612 ± 2.258
40
30
20
10
0
−10
−20
−30
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 41.19
Std Dev 15.76
1.5
1
0.5
0
−0.5
−1
−1.5
−2

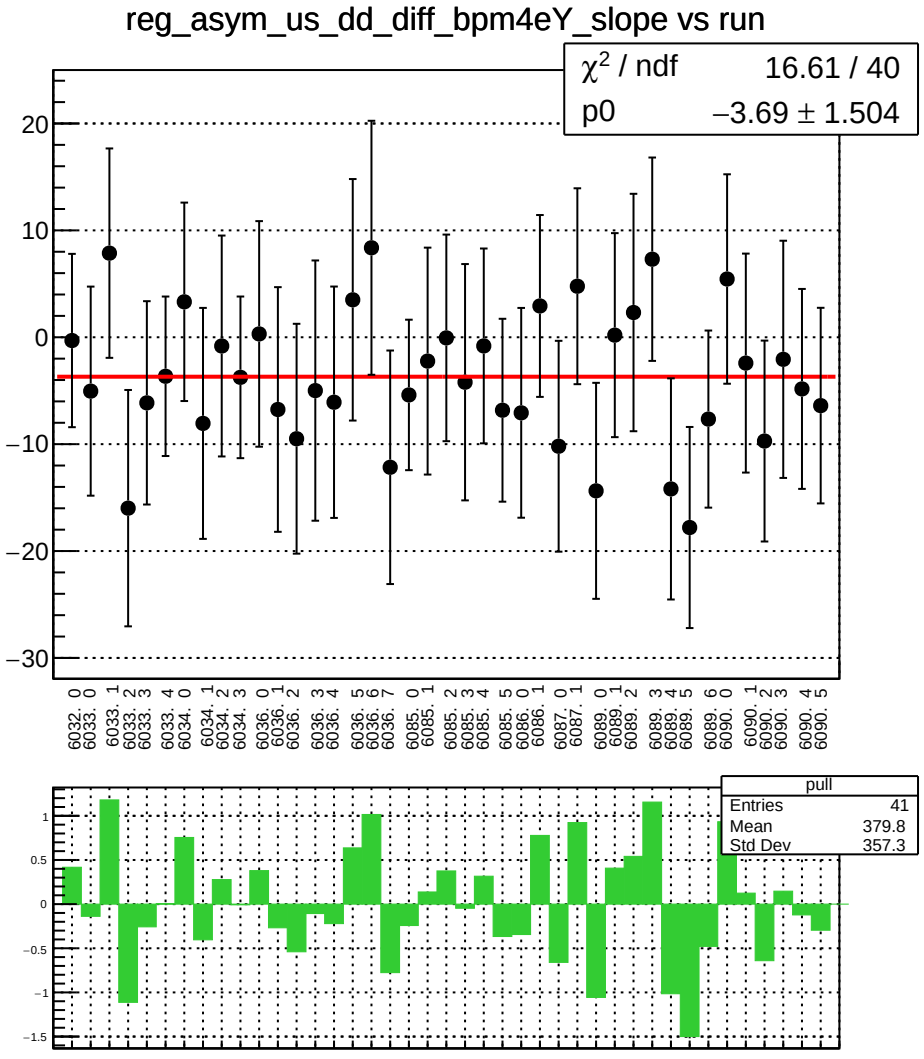

pull1D
Entries 41
Mean 0.04487
Std Dev 0.7608
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

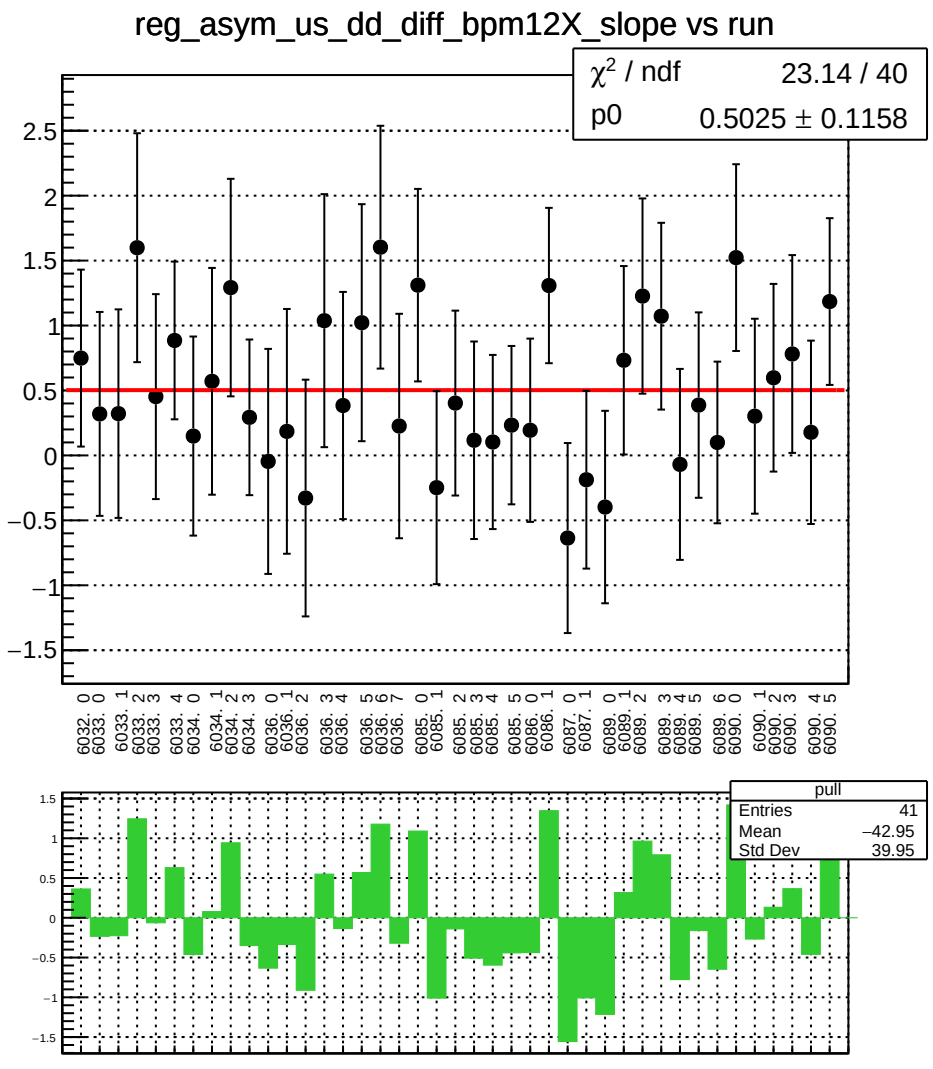

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.6 / 40
p0 2.758 ± 1.405
pull
Entries 41
Mean 104.2
Std Dev 82.24

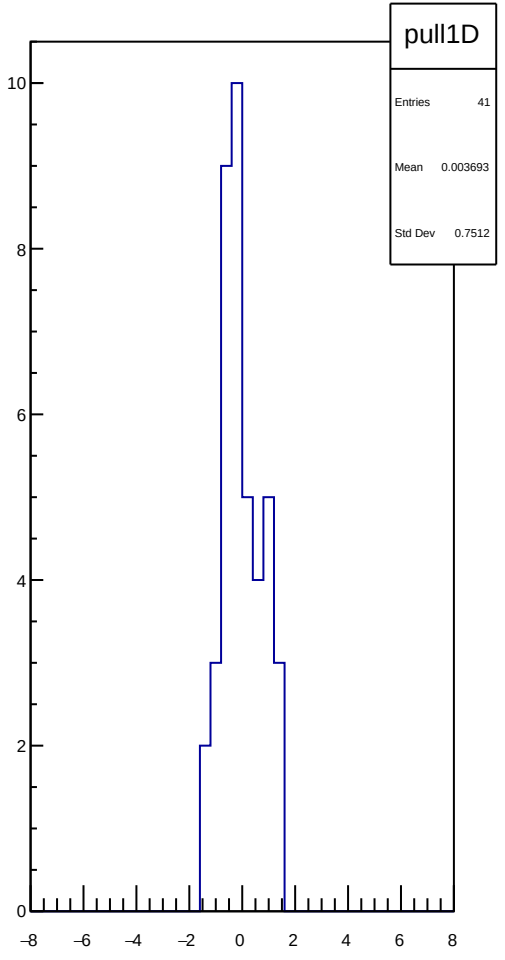

pull1D
Entries 41
Mean 0.01075
Std Dev 0.6362

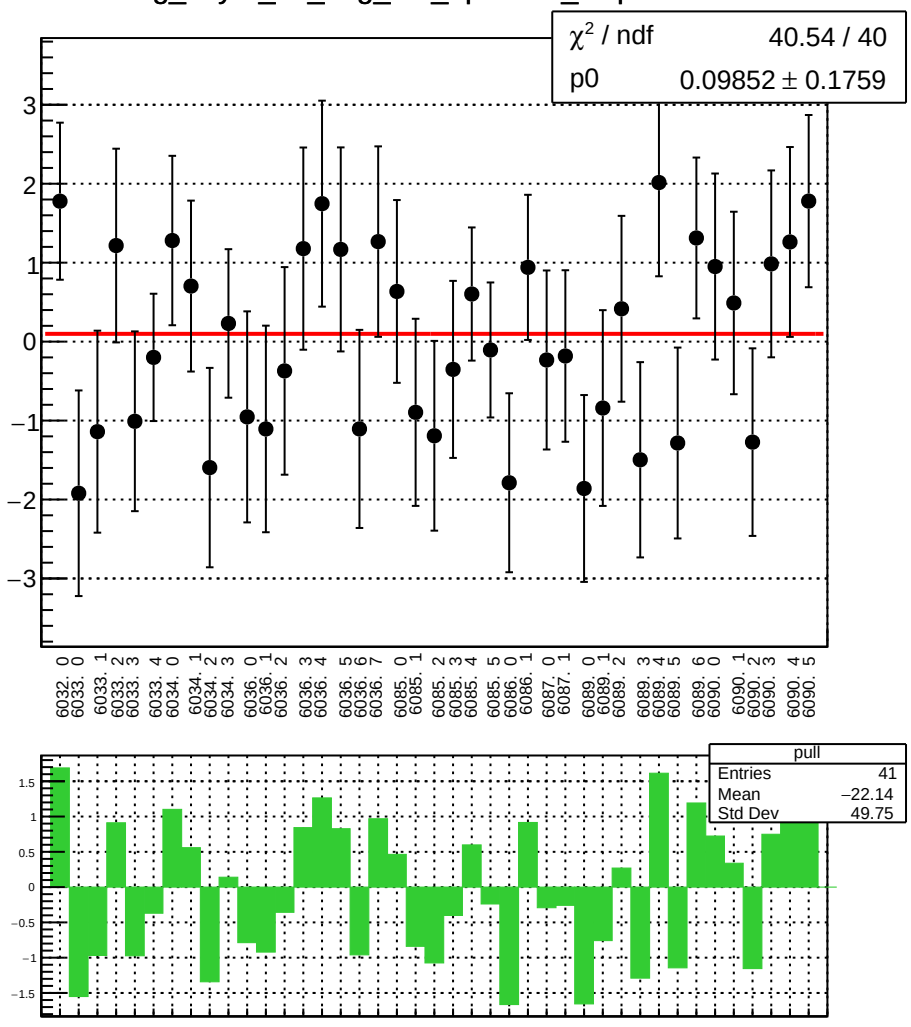

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.69 / 40
p0 −54.69 ± 2.543
pull
Entries 41
Mean 9.033
Std Dev 10.12

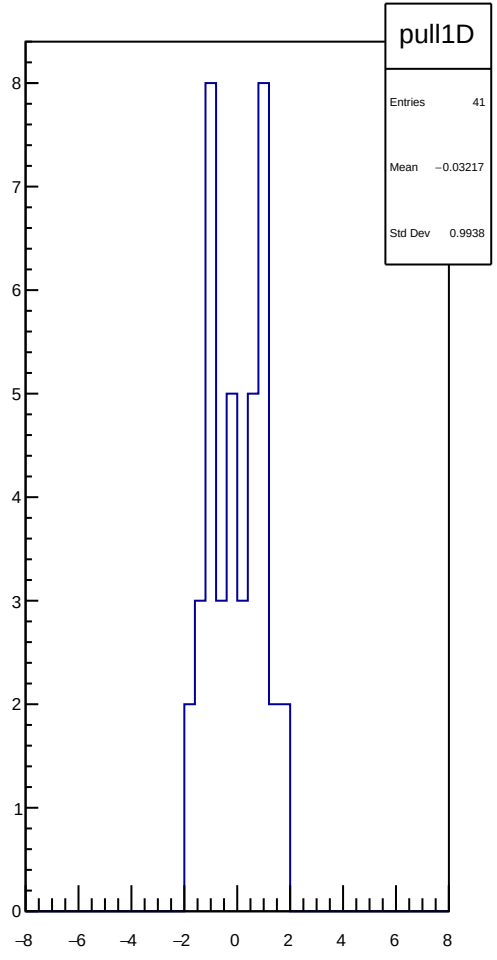

pull1D
Entries 41
Mean −0.05263
Std Dev 0.7742

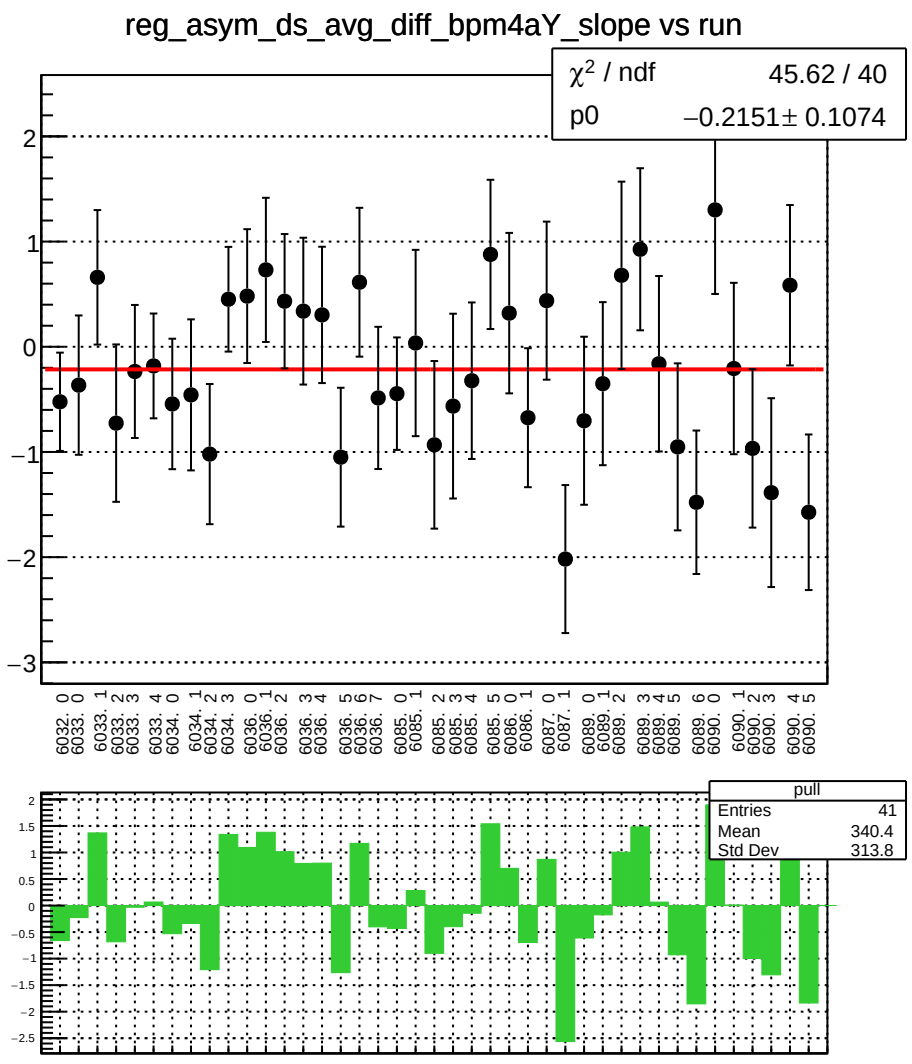

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.61 / 40
p0 −3.69 ± 1.504
20
10
0
−10
−20
−30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 379.8
Std Dev 357.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.002253
Std Dev 0.6365
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

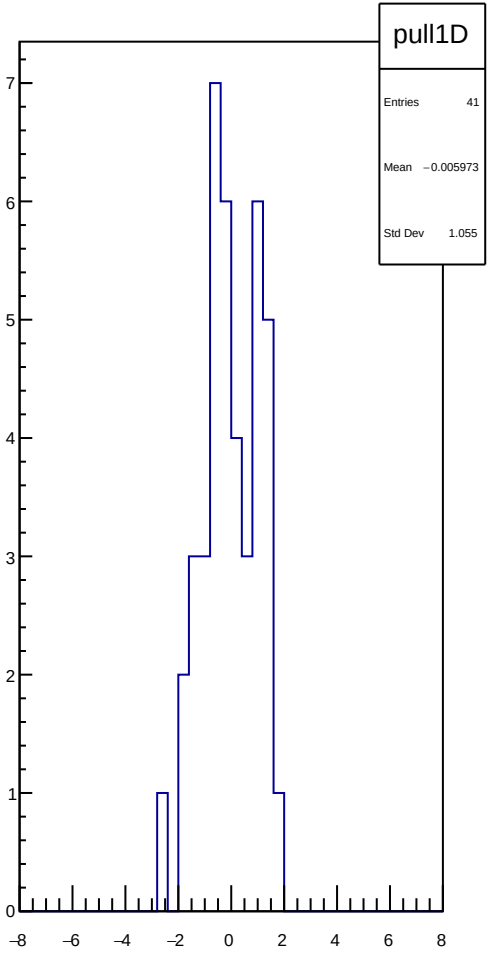

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 23.14 / 40
p0 0.5025 ± 0.1158
pull
Entries 41
Mean −42.95
Std Dev 39.95

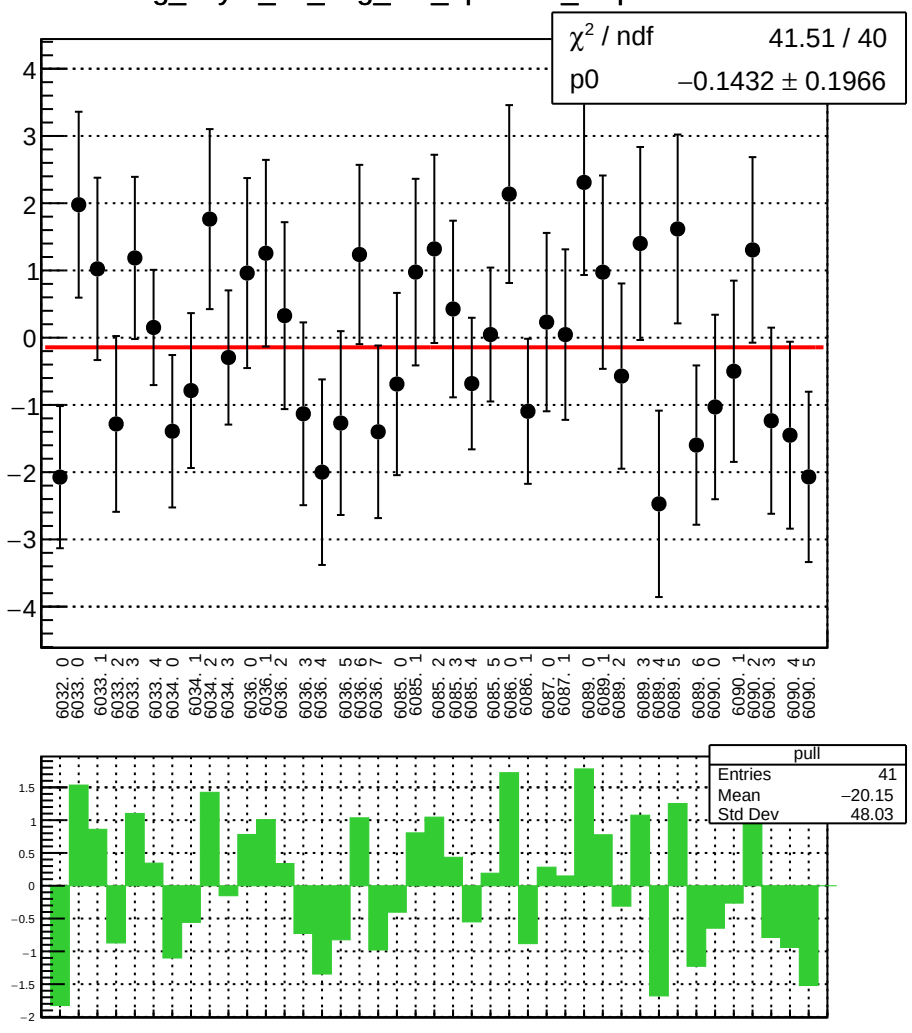

pull1D
Entries 41
Mean 0.003693
Std Dev 0.7512

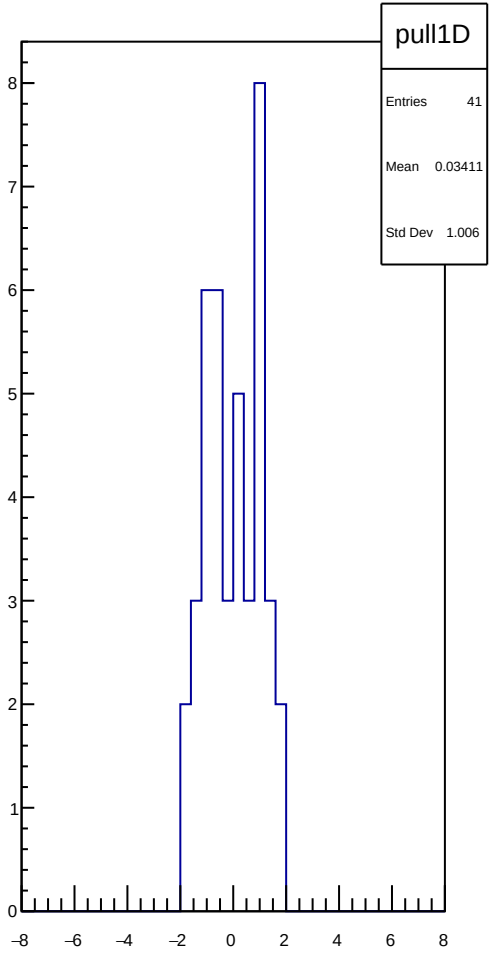

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.54 / 40
p0 0.09852 ± 0.1759
pull
Entries 41
Mean −22.14
Std Dev 49.75

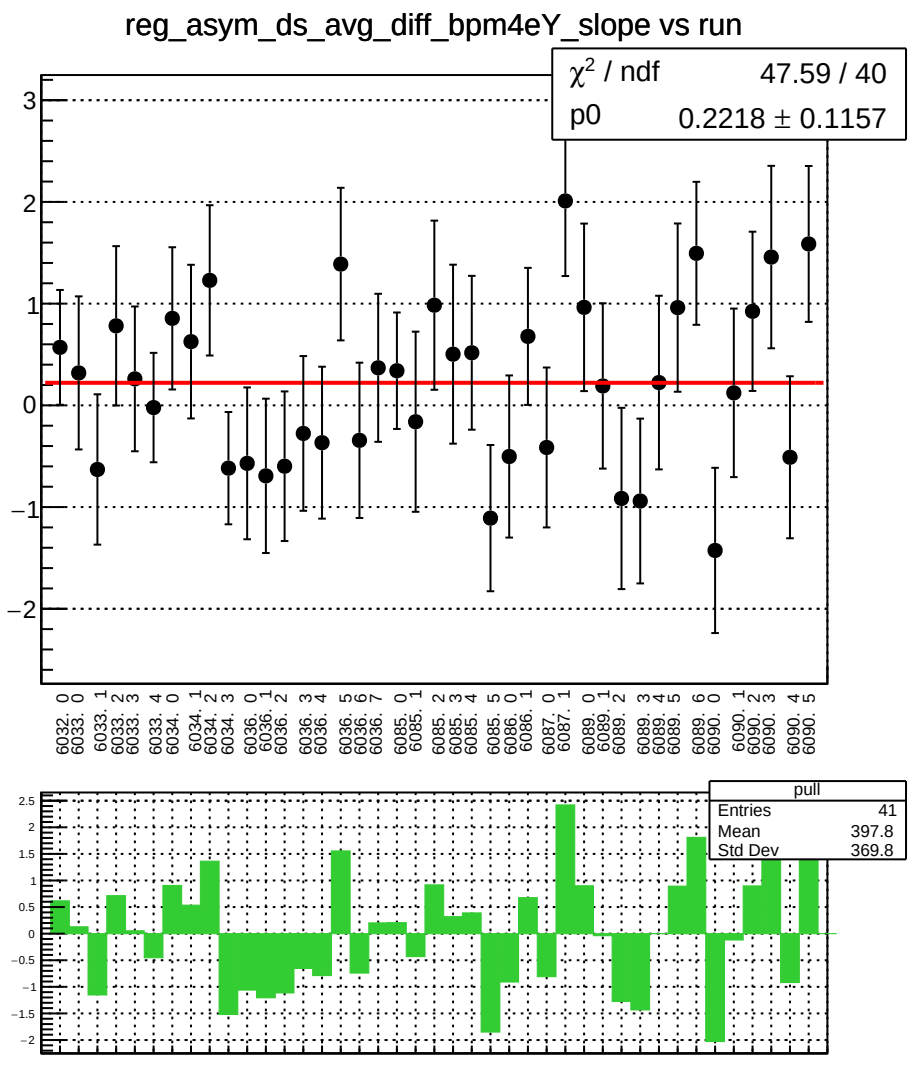

pull1D
Entries 41
Mean −0.03217
Std Dev 0.9938

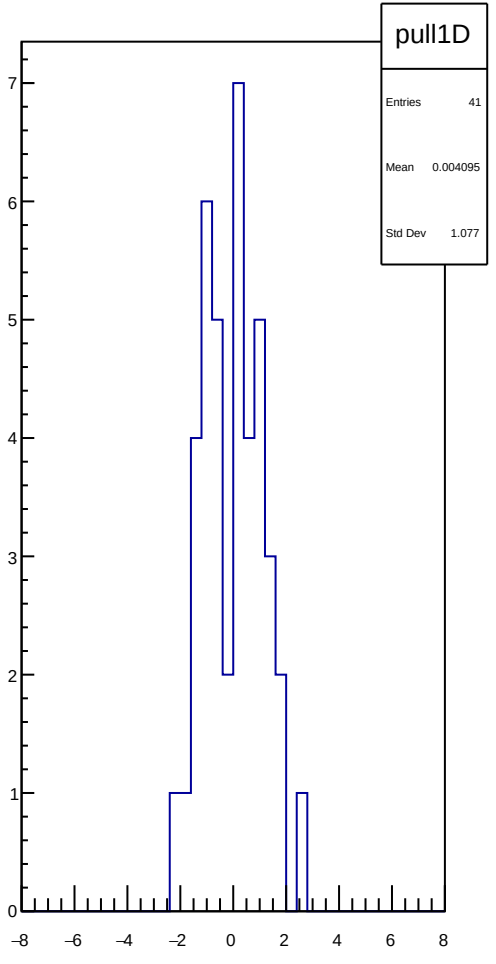

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.62 / 40
p0 −0.2151± 0.1074
pull
Entries 41
Mean 340.4
Std Dev 313.8

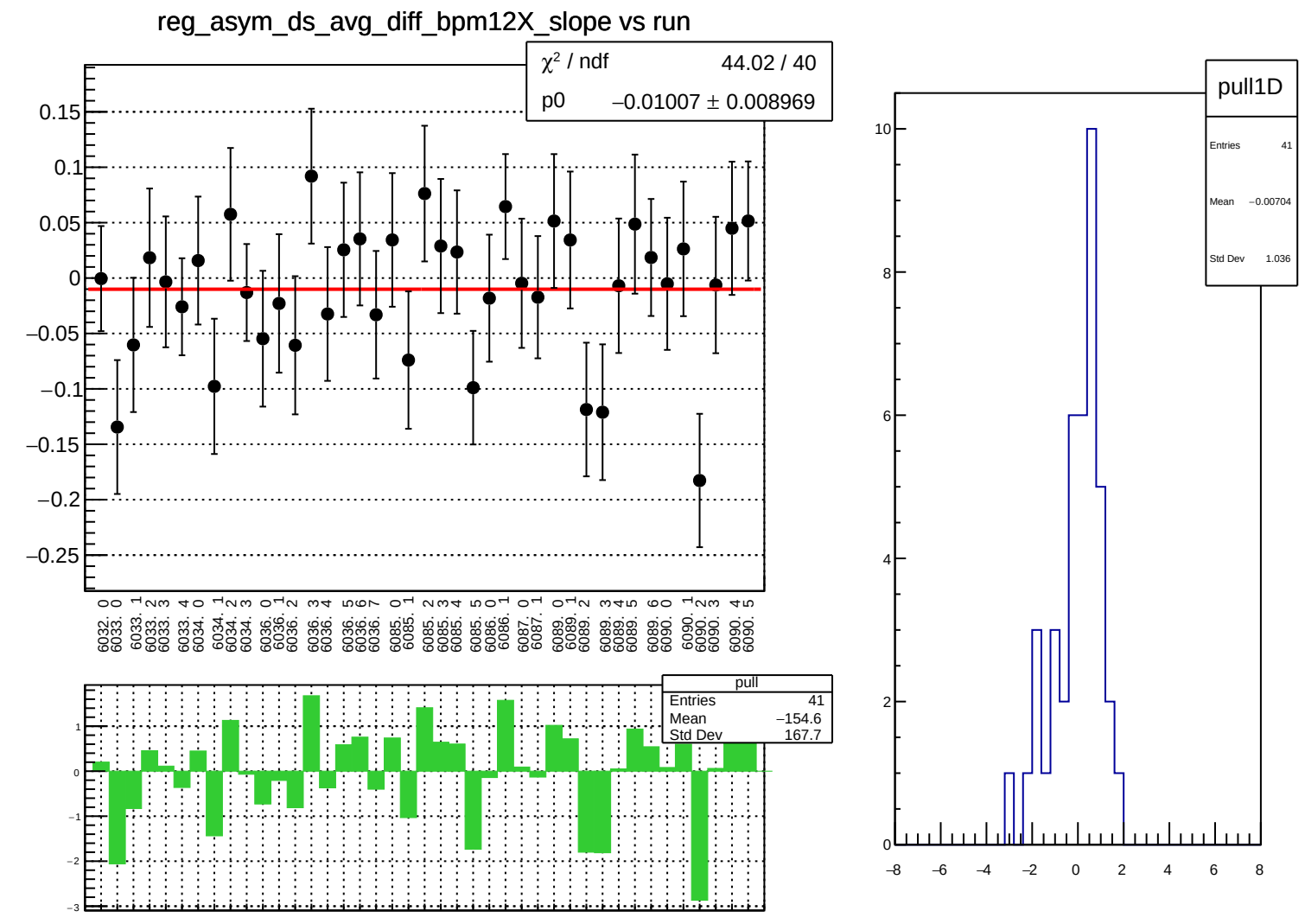

pull1D
Entries 41
Mean −0.005973
Std Dev 1.055

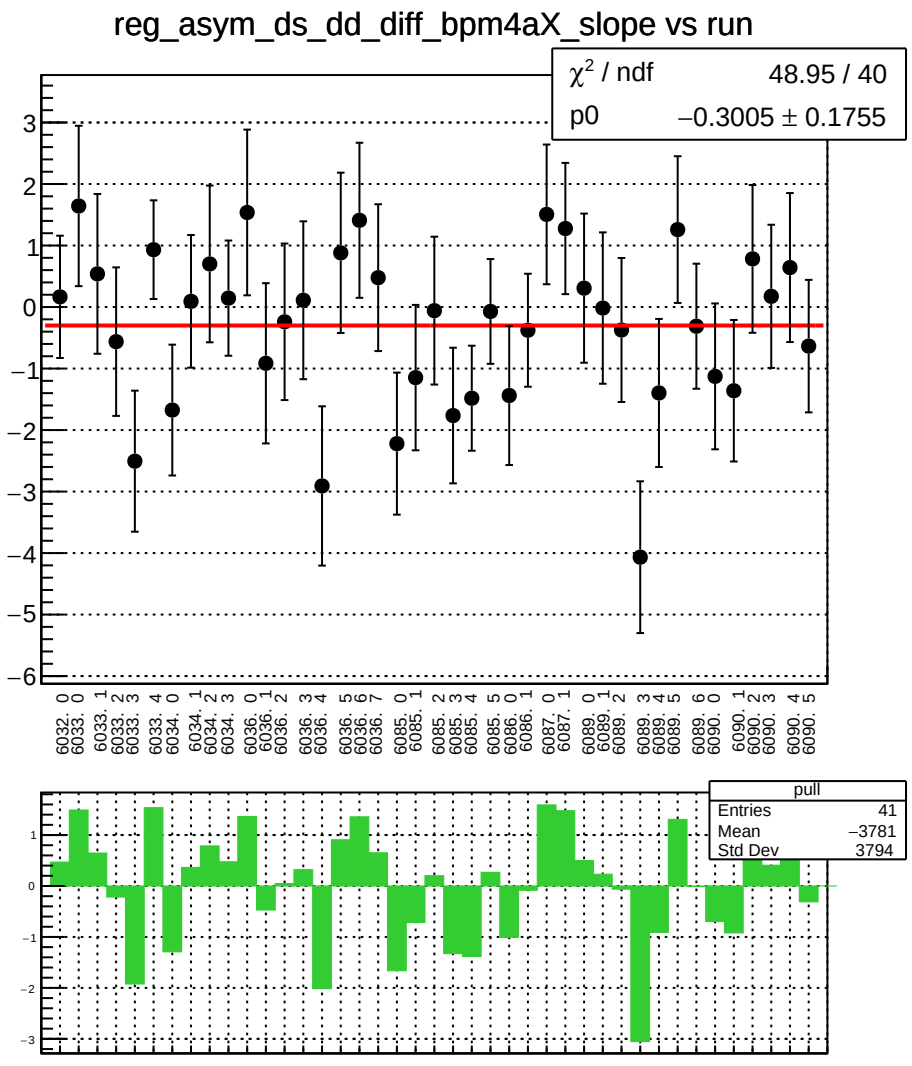

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.51 / 40
p0 −0.1432 ± 0.1966
pull
Entries 41
Mean −20.15
Std Dev 48.03

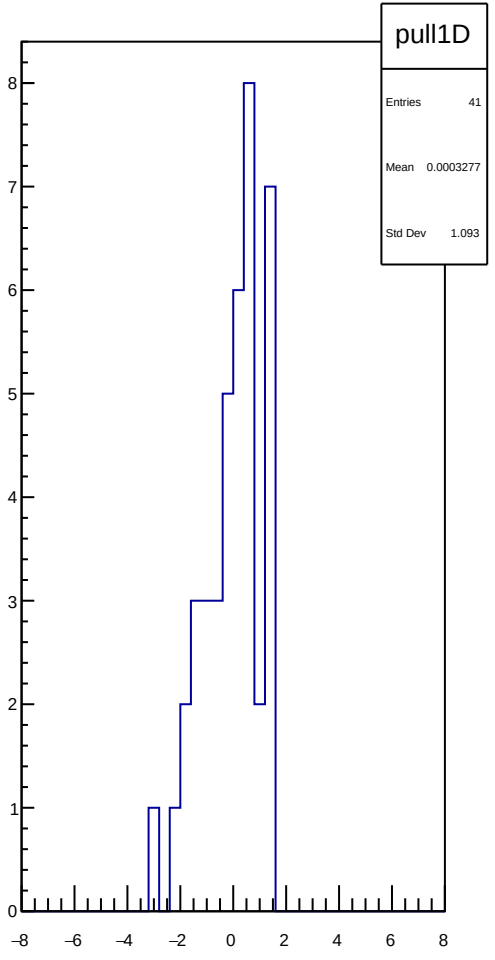

pull1D
Entries 41
Mean 0.03411
Std Dev 1.006

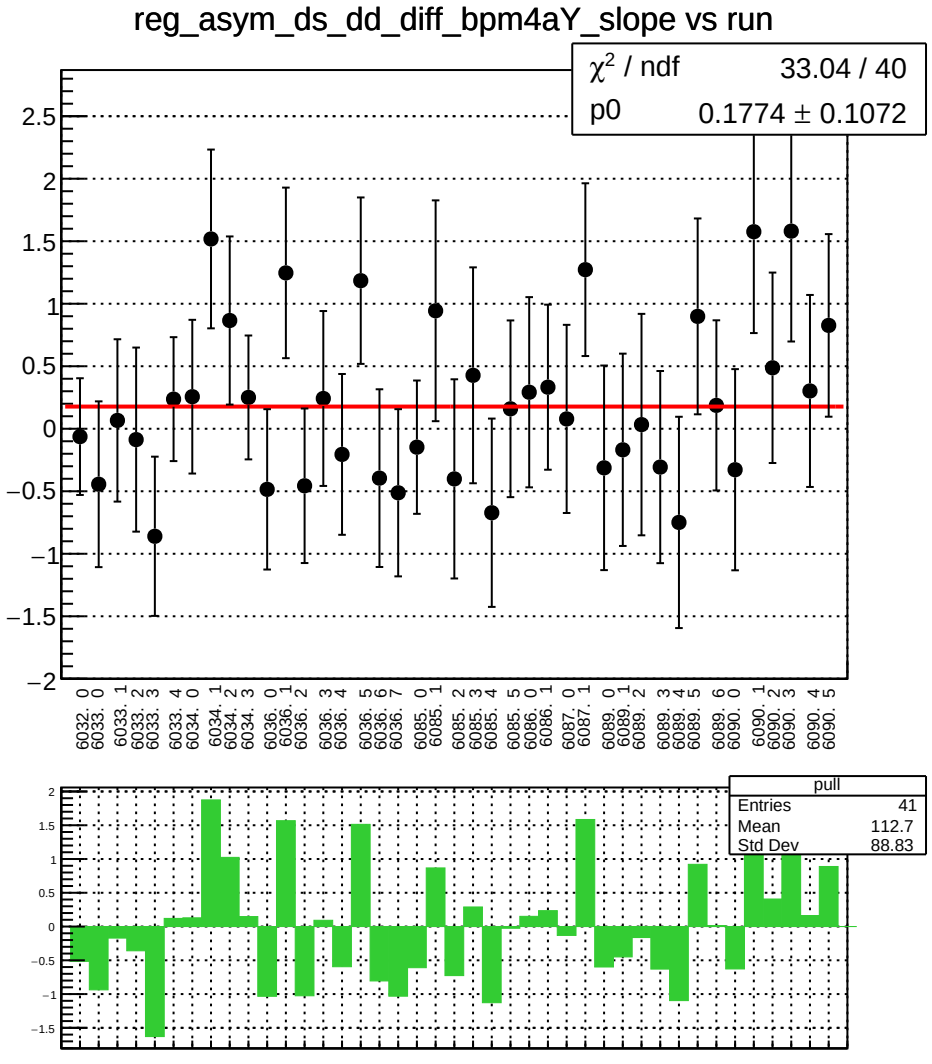

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.59 / 40
p0 0.2218 ± 0.1157
pull
Entries 41
Mean 397.8
Std Dev 369.8

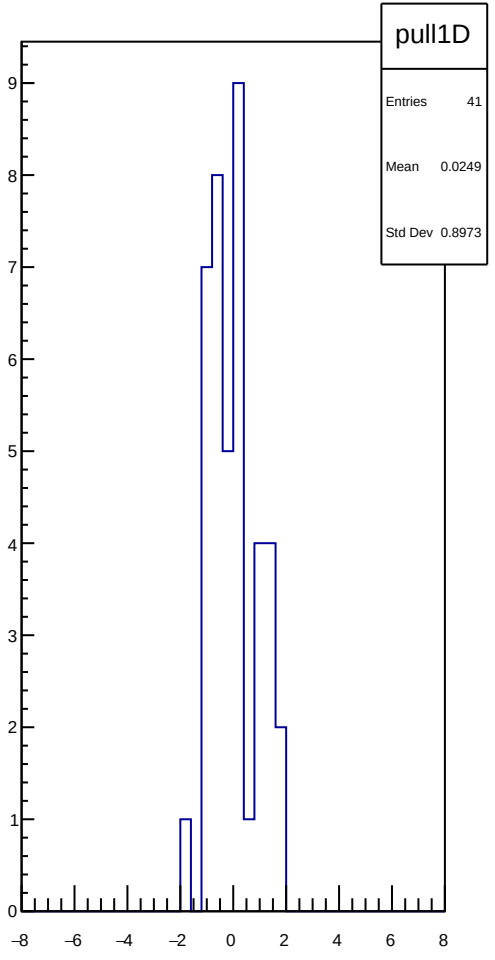

pull1D
Entries 41
Mean 0.004095
Std Dev 1.077

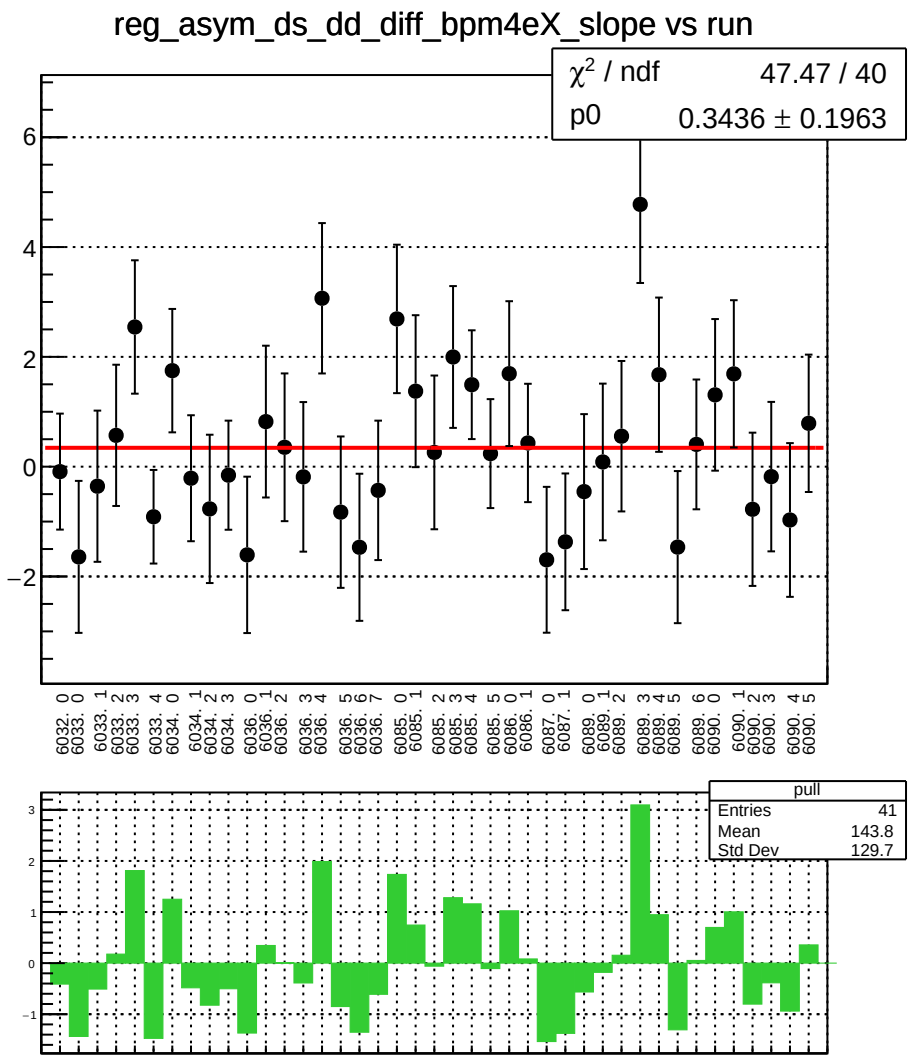

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 44.02 / 40
p0 −0.01007 ± 0.008969
pull
Entries 41
Mean −154.6
Std Dev 167.7
pull1D
Entries 41
Mean −0.00704
Std Dev 1.036

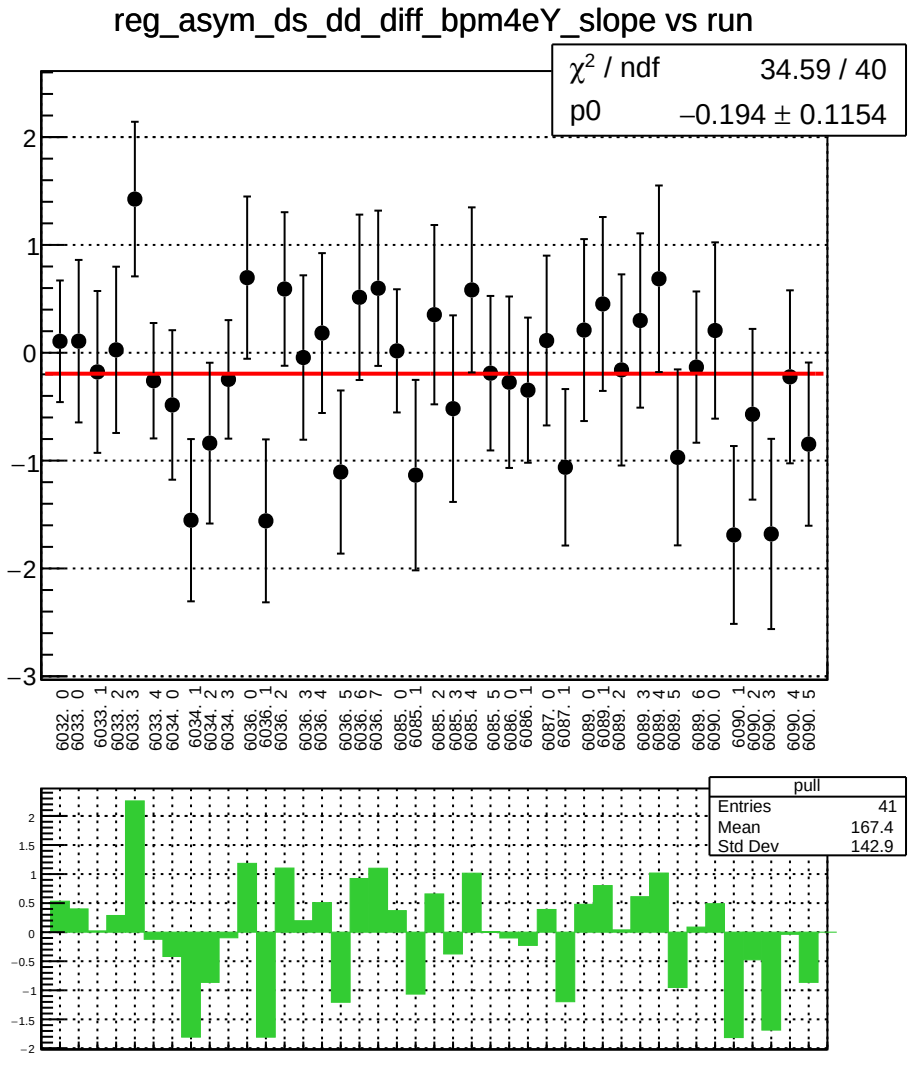

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.95 / 40
p0 −0.3005 ± 0.1755
pull
Entries 41
Mean −3781
Std Dev 3794

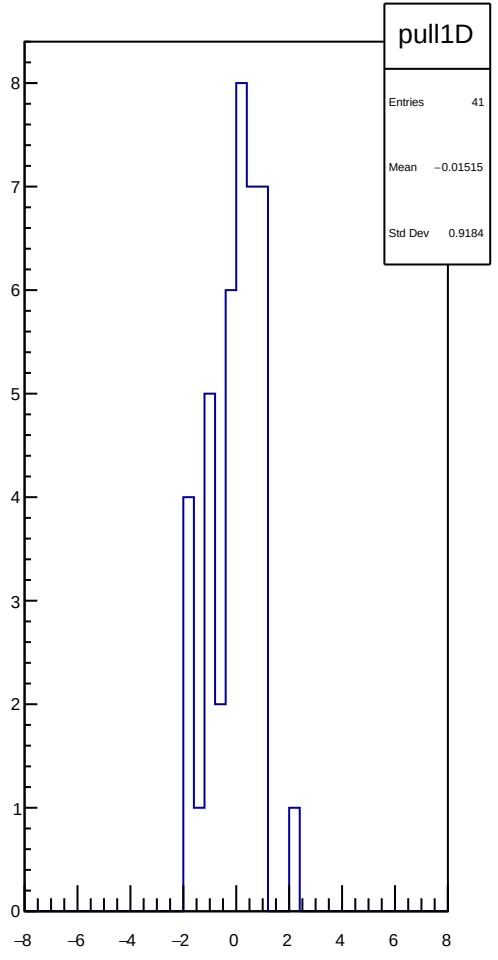

pull1D
Entries 41
Mean 0.0003277
Std Dev 1.093

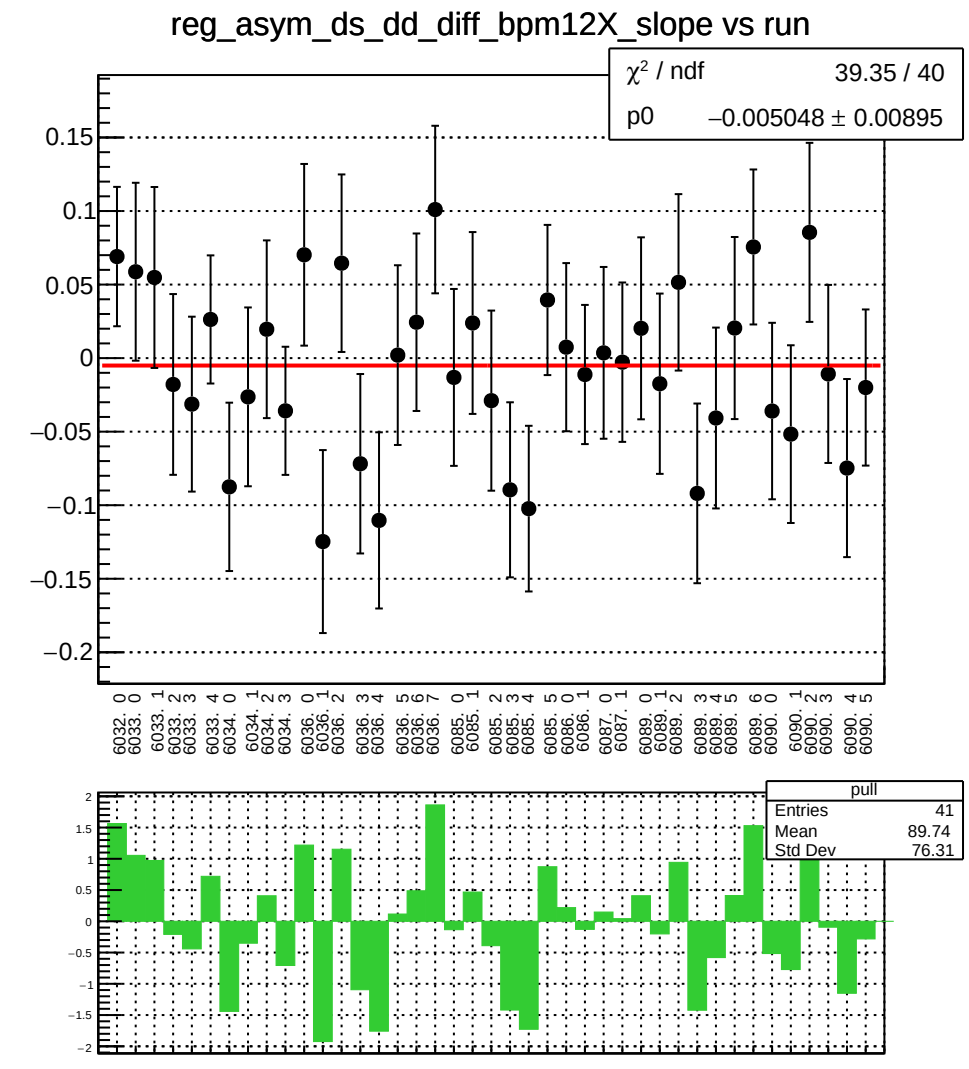

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.04 / 40
p0 0.1774 ± 0.1072
pull
Entries 41
Mean 112.7
Std Dev 88.83

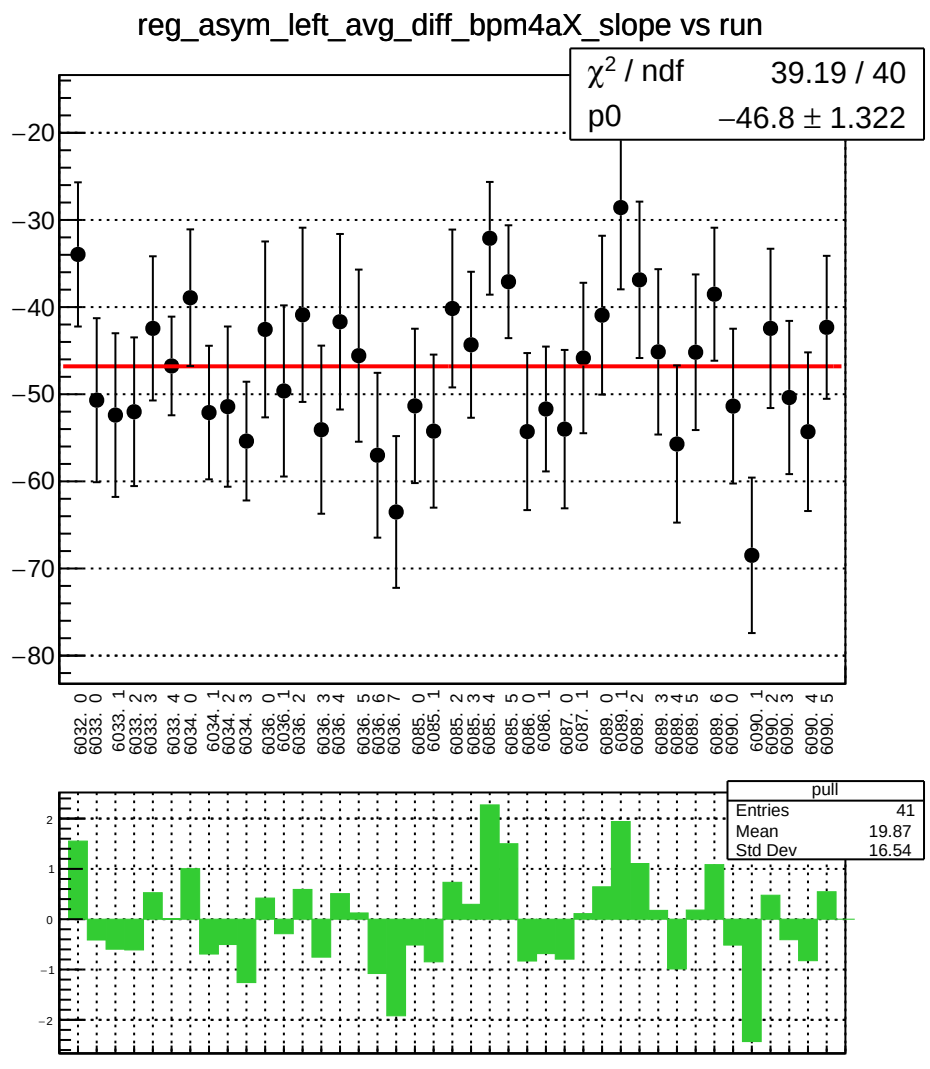

pull1D
Entries 41
Mean 0.0249
Std Dev 0.8973

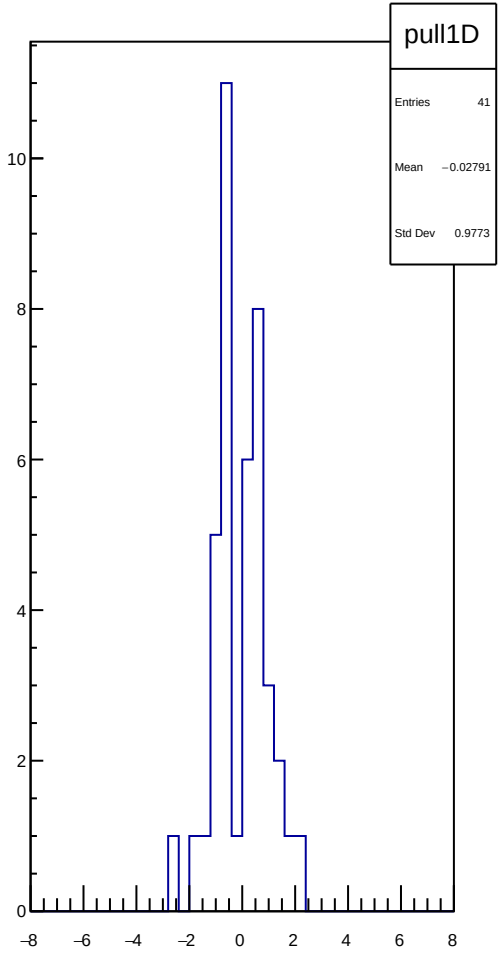

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.47 / 40
p0 0.3436 ± 0.1963
6
4
2
0
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 143.8
Std Dev 129.7
3
2
1
0
−1
pull1D
Entries 41
Mean 0.01114
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

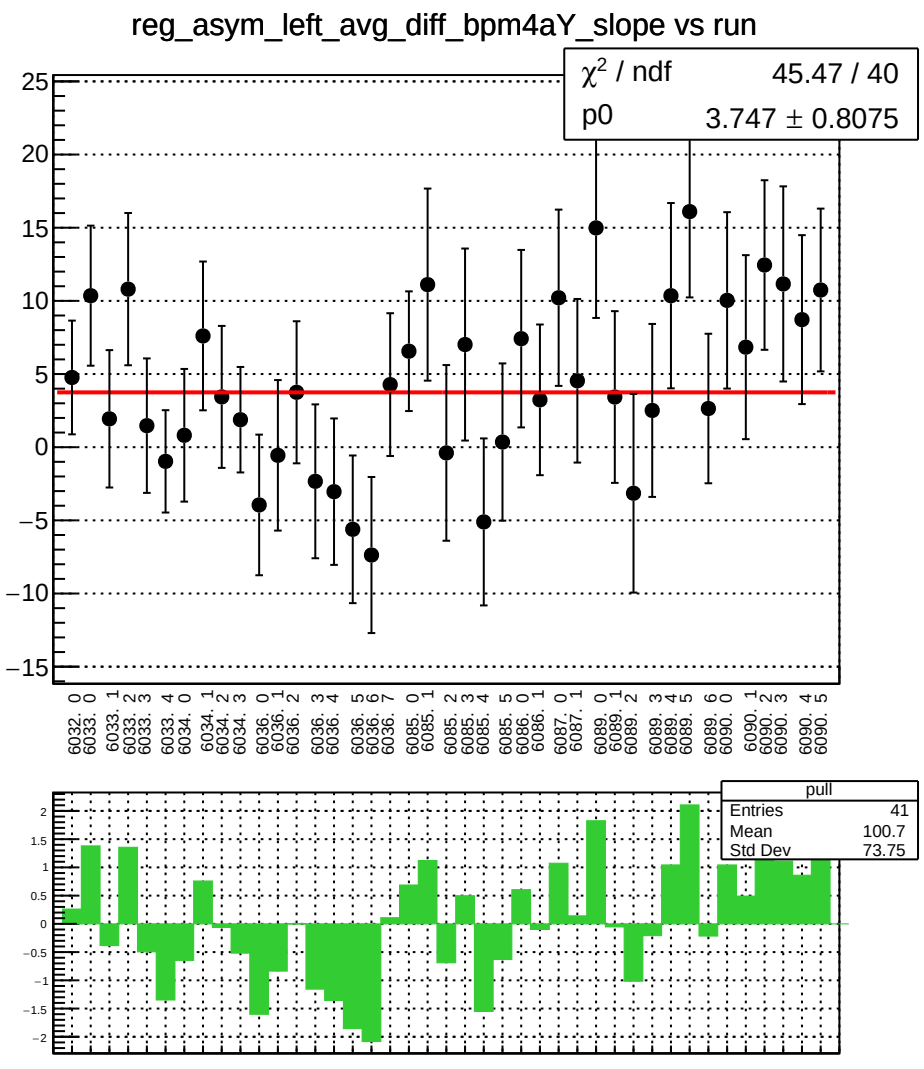

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.59 / 40
p0 −0.194 ± 0.1154
pull
Entries 41
Mean 167.4
Std Dev 142.9

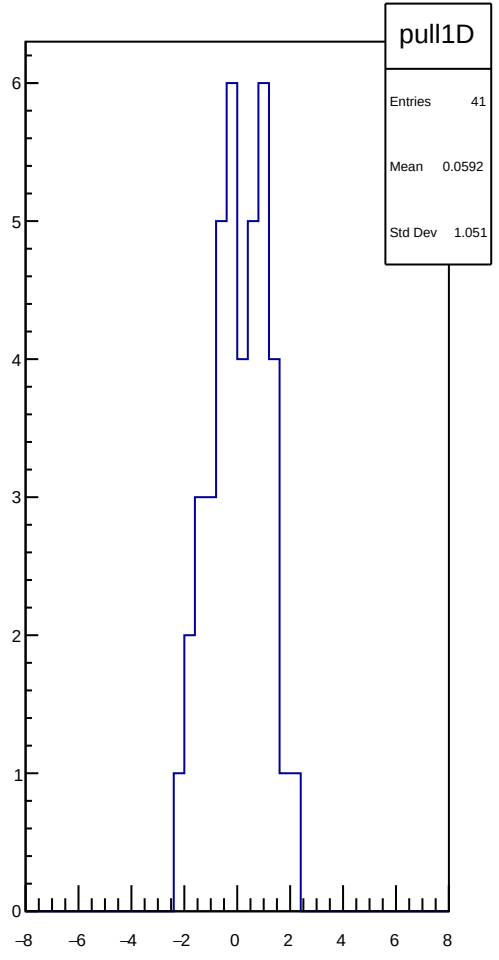

pull1D
Entries 41
Mean −0.01515
Std Dev 0.9184

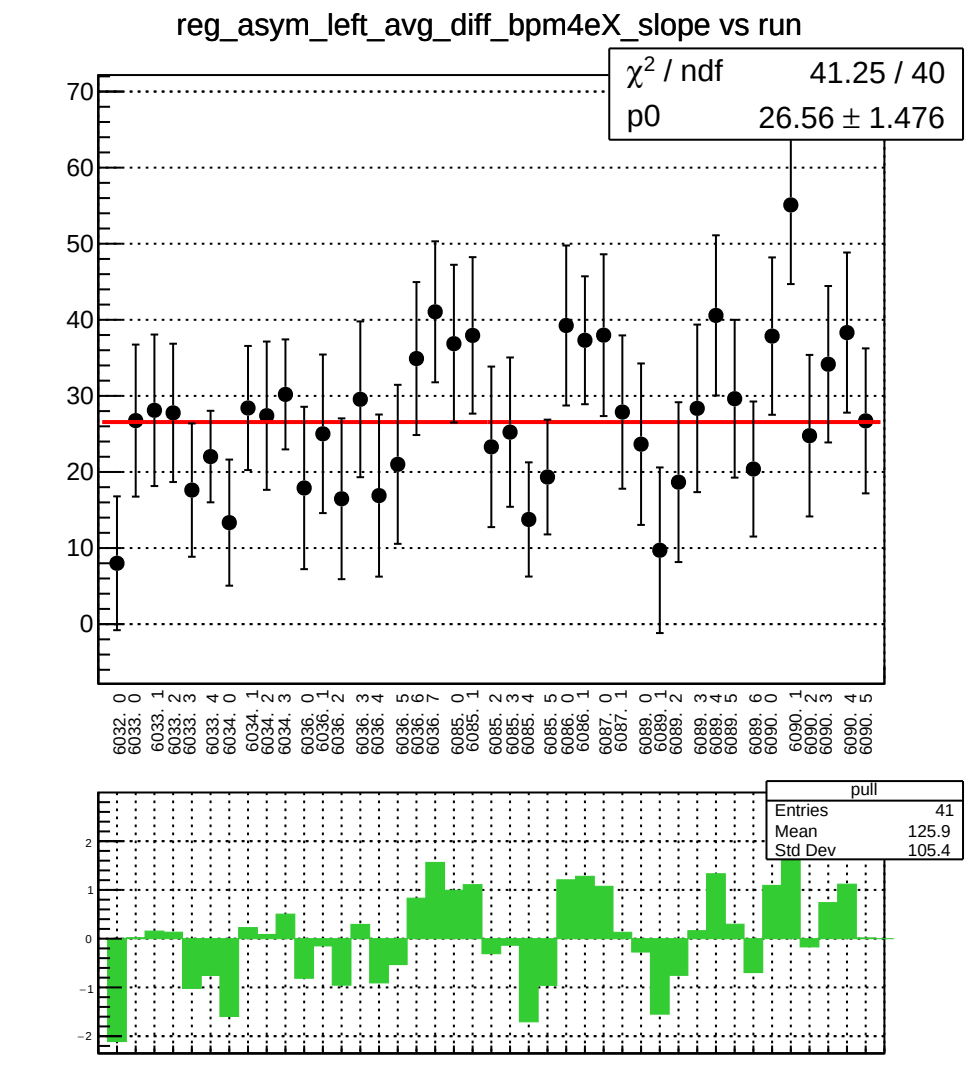

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 39.35 / 40
p0 −0.005048 ± 0.00895
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 89.74
Std Dev 76.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.016
Std Dev 0.9795
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

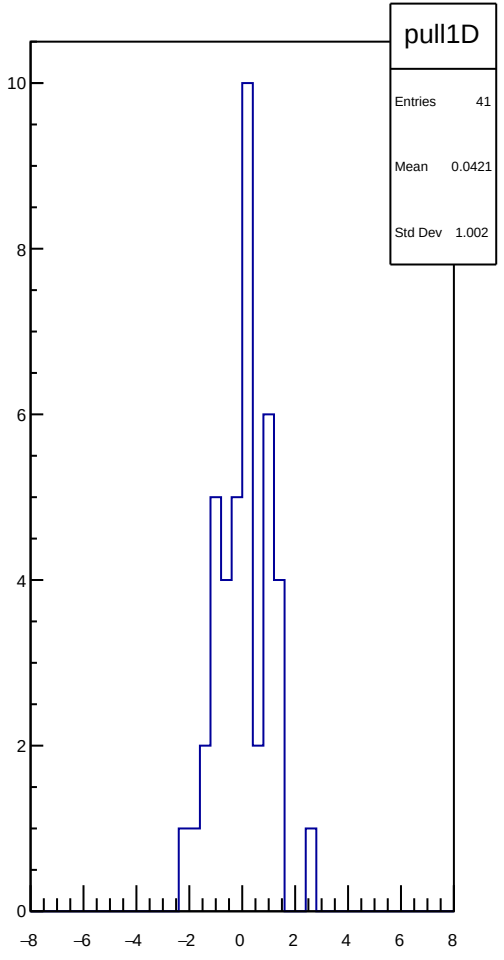

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.19 / 40
p0 −46.8 ± 1.322
−20
−30
−40
−50
−60
−70
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 19.87
Std Dev 16.54
2
1
0
−1
−2

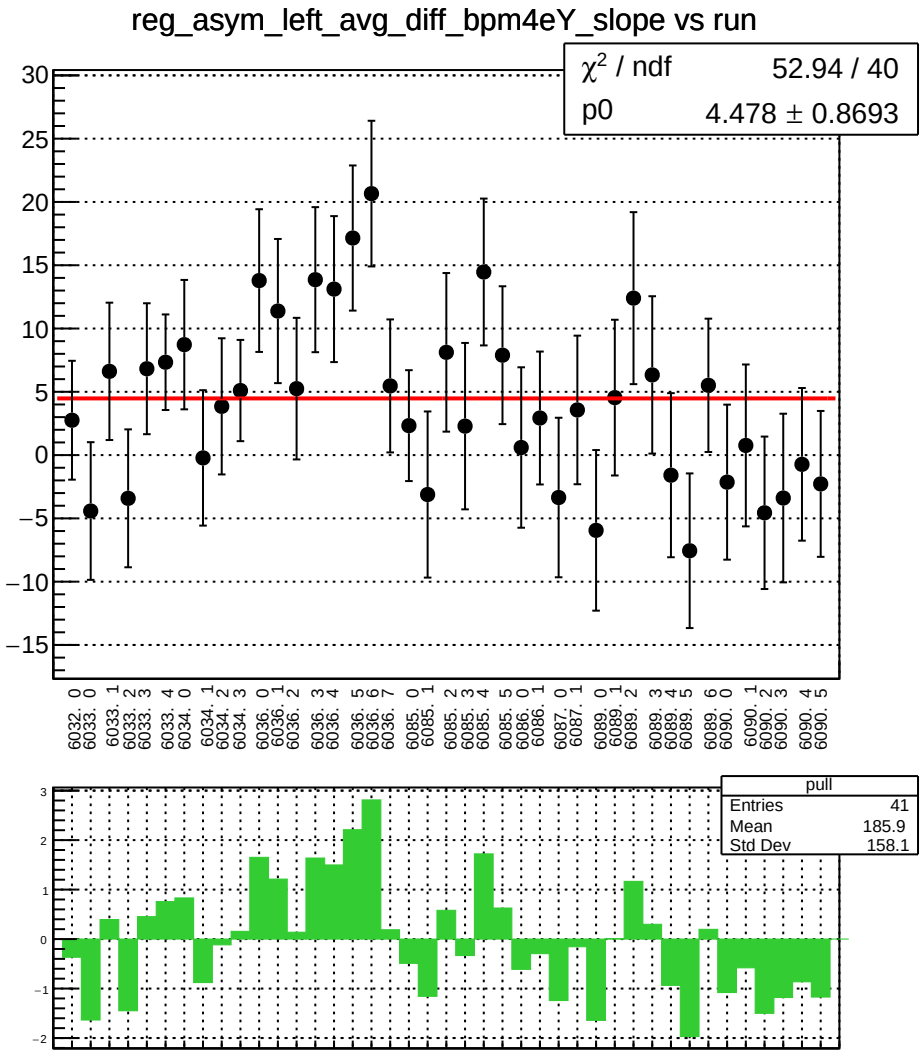

pull1D
Entries 41
Mean −0.02791
Std Dev 0.9773
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

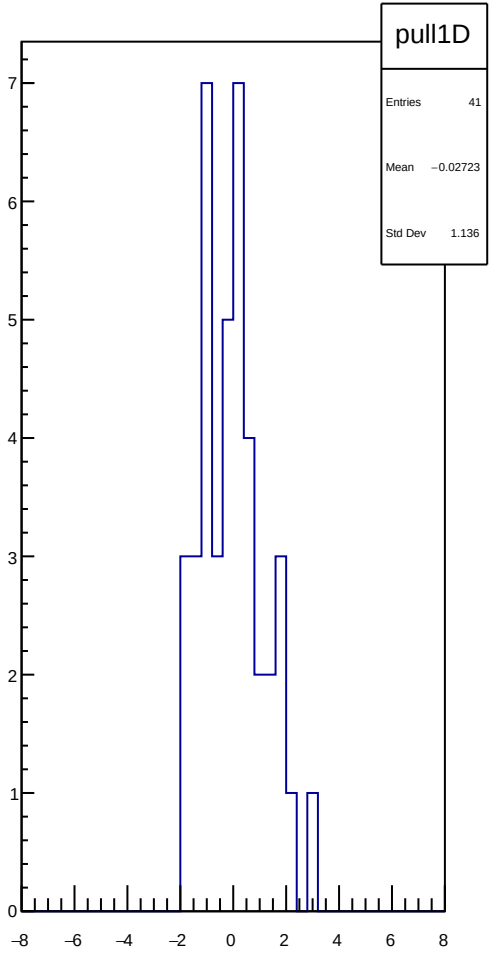

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.47 / 40
p0 3.747 ± 0.8075
pull
Entries 41
Mean 100.7
Std Dev 73.75

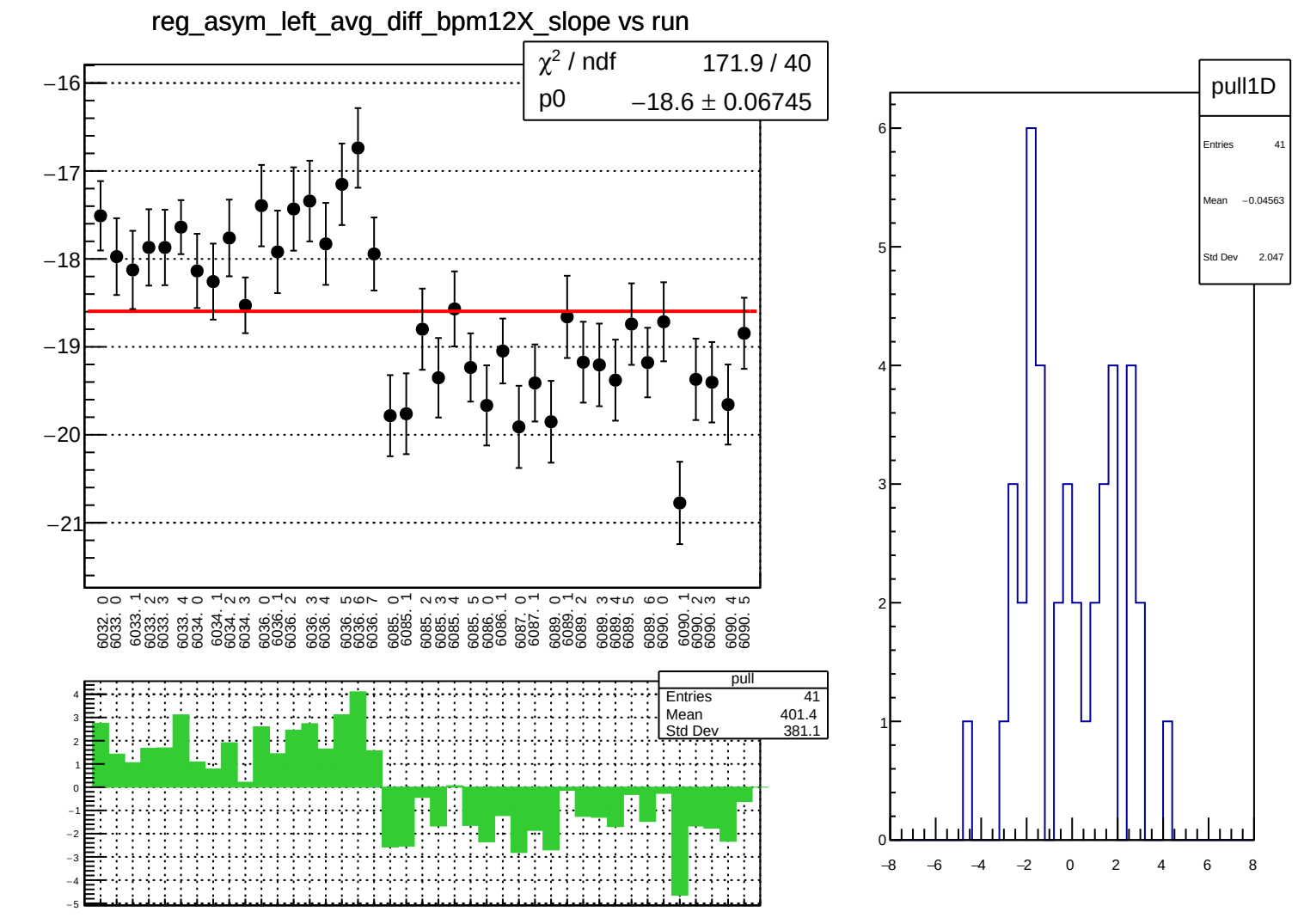

pull1D
Entries 41
Mean 0.0592
Std Dev 1.051

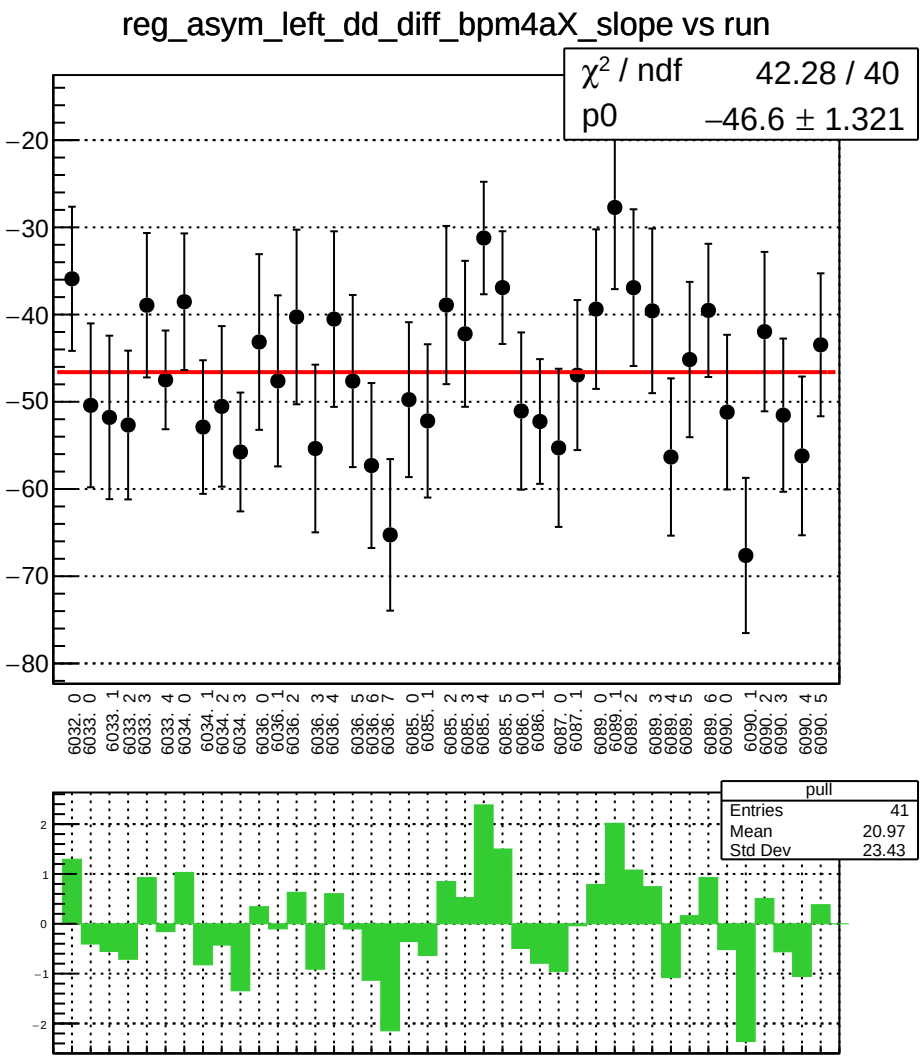

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.25 / 40
p0 26.56 ± 1.476
pull
Entries 41
Mean 125.9
Std Dev 105.4

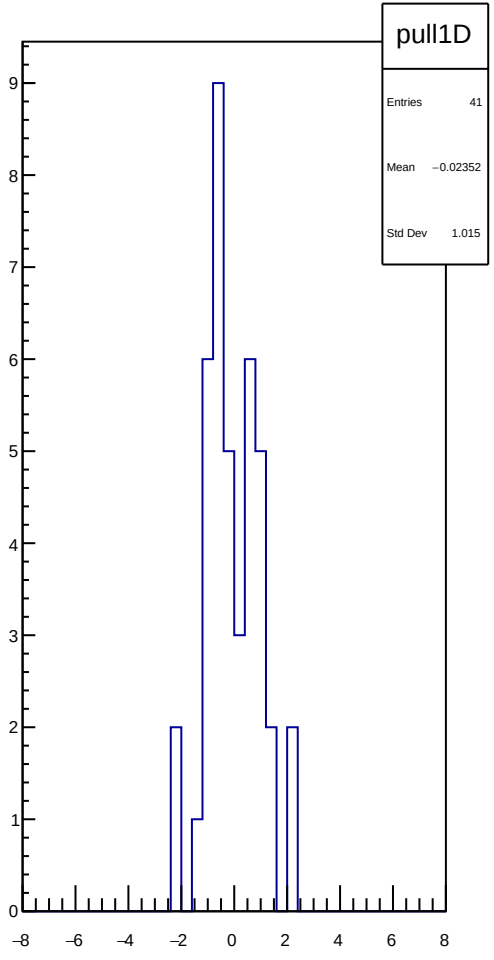

pull1D
Entries 41
Mean 0.0421
Std Dev 1.002

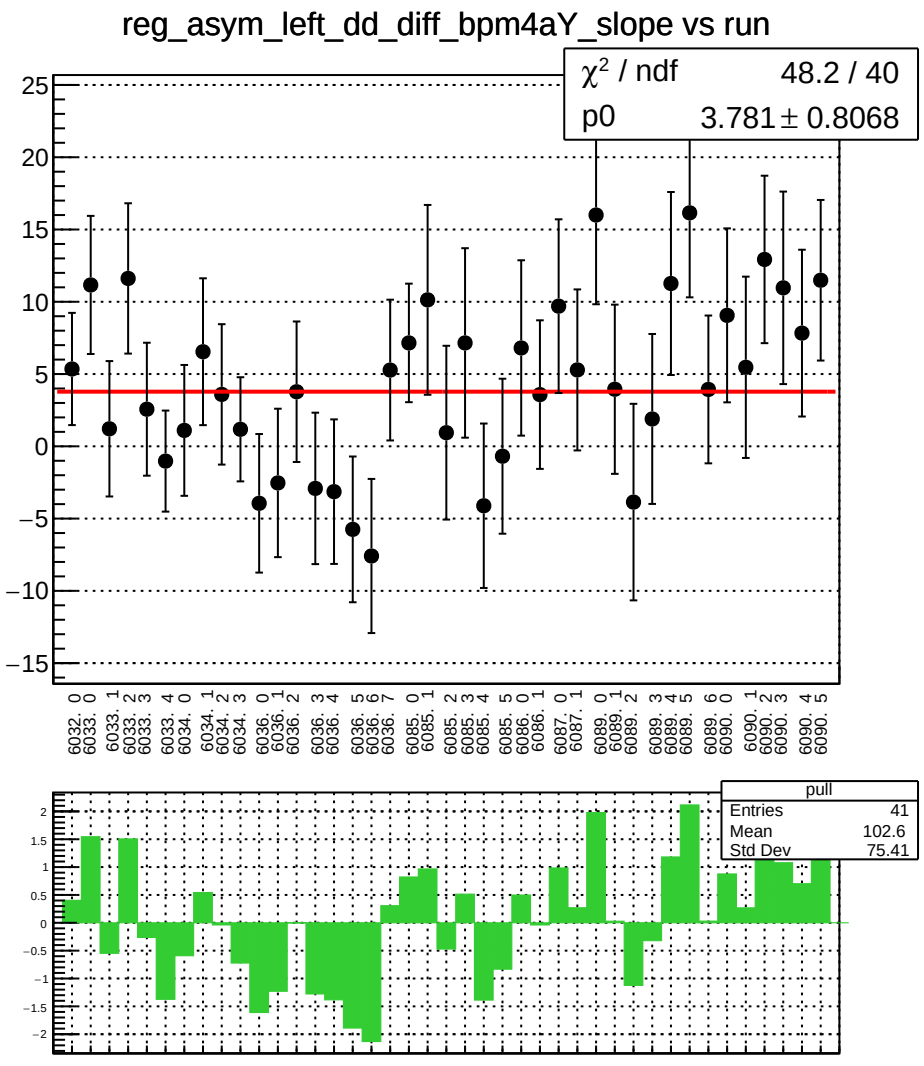

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.94 / 40
p0 4.478 ± 0.8693
pull
Entries 41
Mean 185.9
Std Dev 158.1

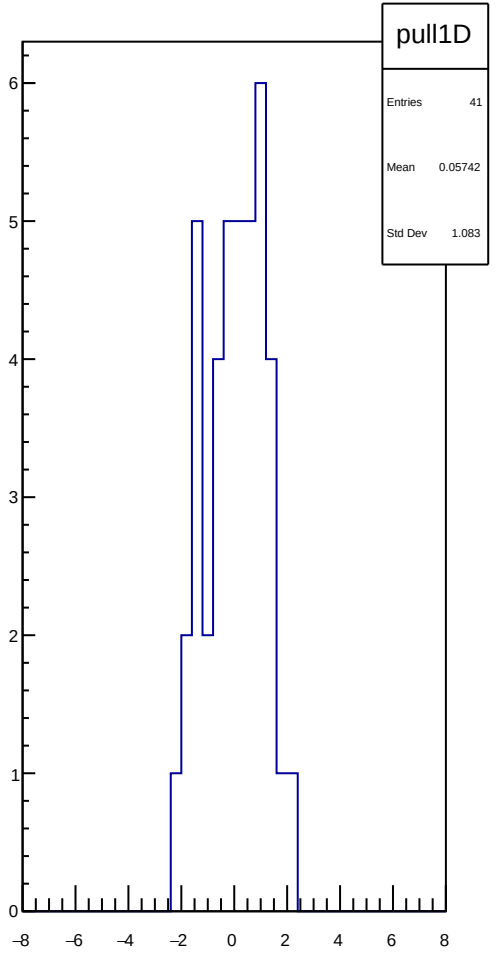

pull1D
Entries 41
Mean −0.02723
Std Dev 1.136

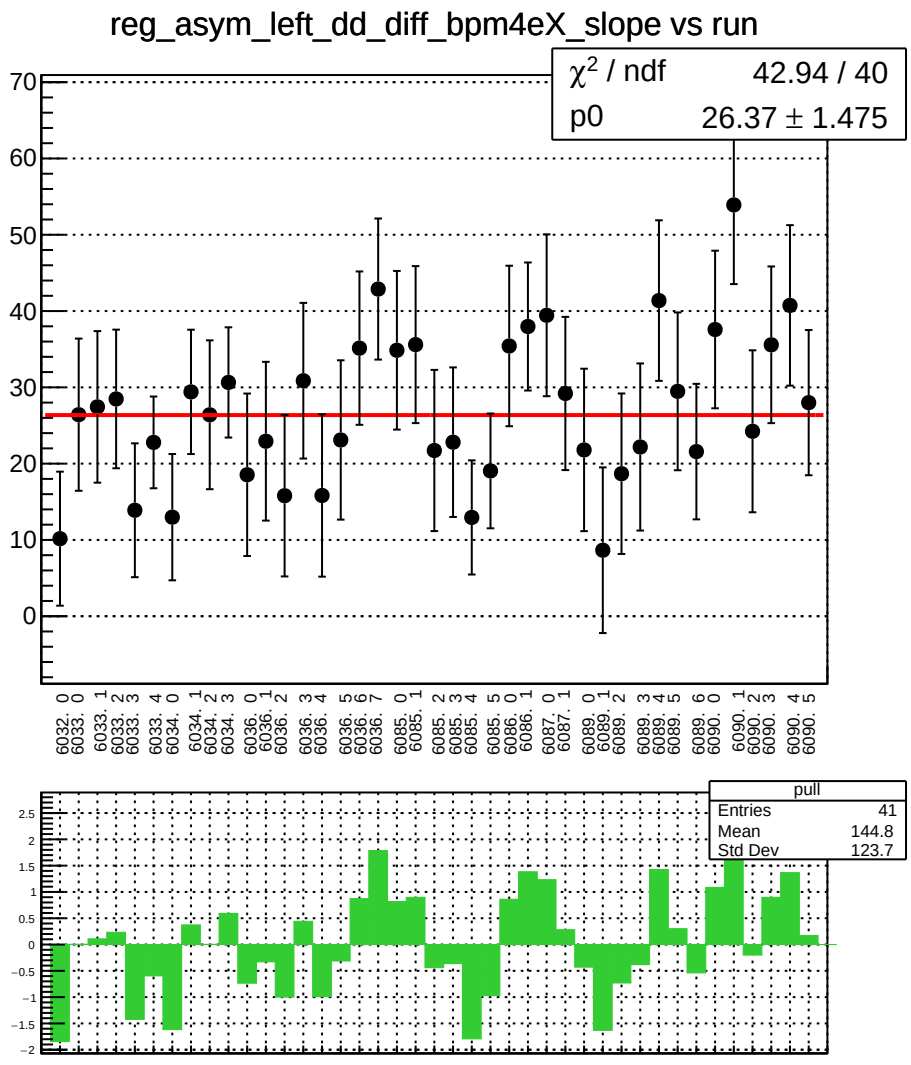

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 171.9 / 40
p0 −18.6 ± 0.06745
pull
Entries 41
Mean 401.4
Std Dev 381.1
pull1D
Entries 41
Mean −0.04563
Std Dev 2.047

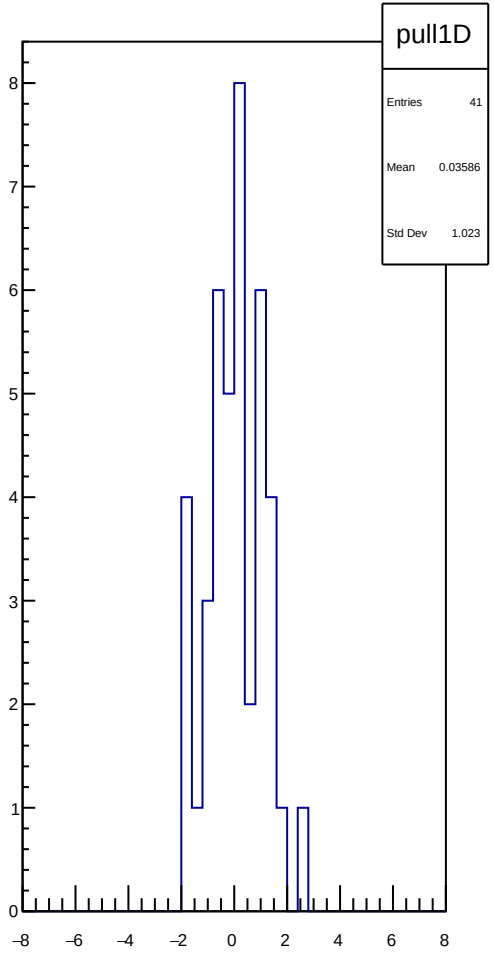

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.28 / 40
p0 −46.6 ± 1.321
pull
Entries 41
Mean 20.97
Std Dev 23.43

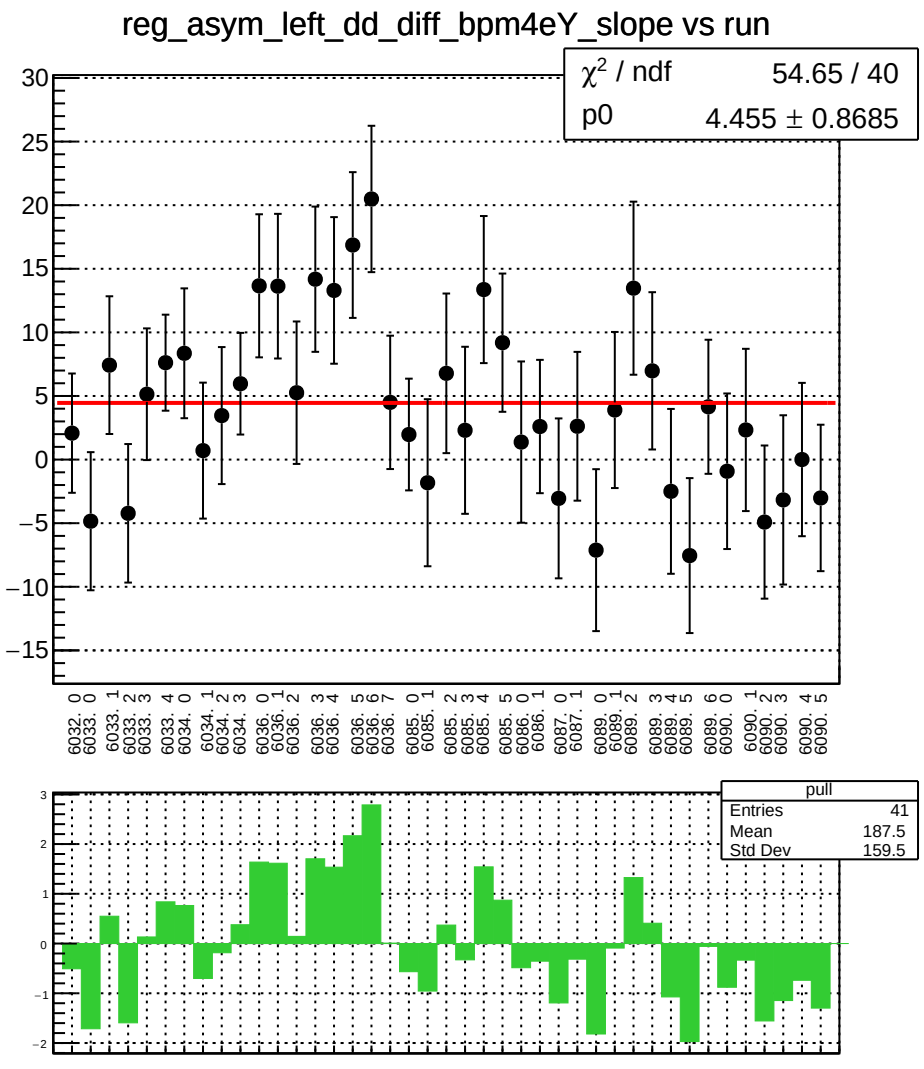

pull1D
Entries 41
Mean −0.02352
Std Dev 1.015

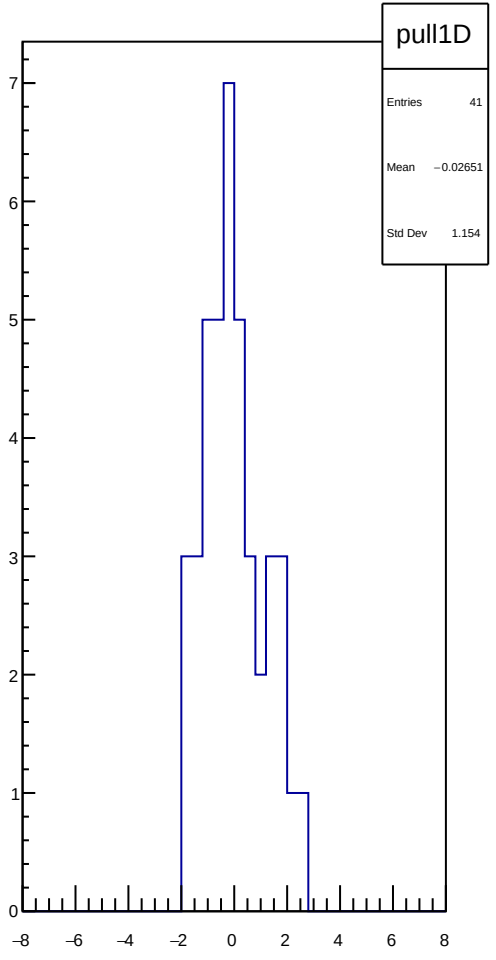

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.2 / 40
p0 3.781 ± 0.8068
pull
Entries 41
Mean 102.6
Std Dev 75.41

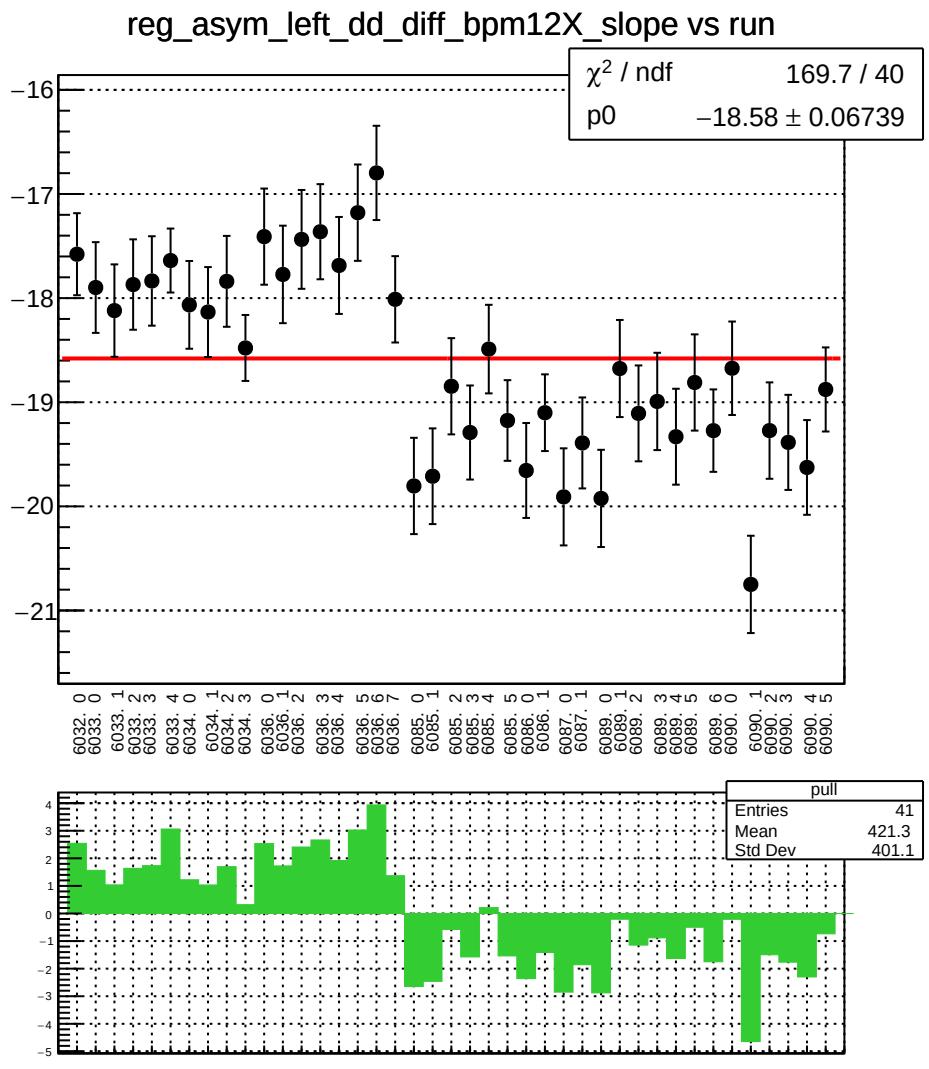

pull1D
Entries 41
Mean 0.05742
Std Dev 1.083

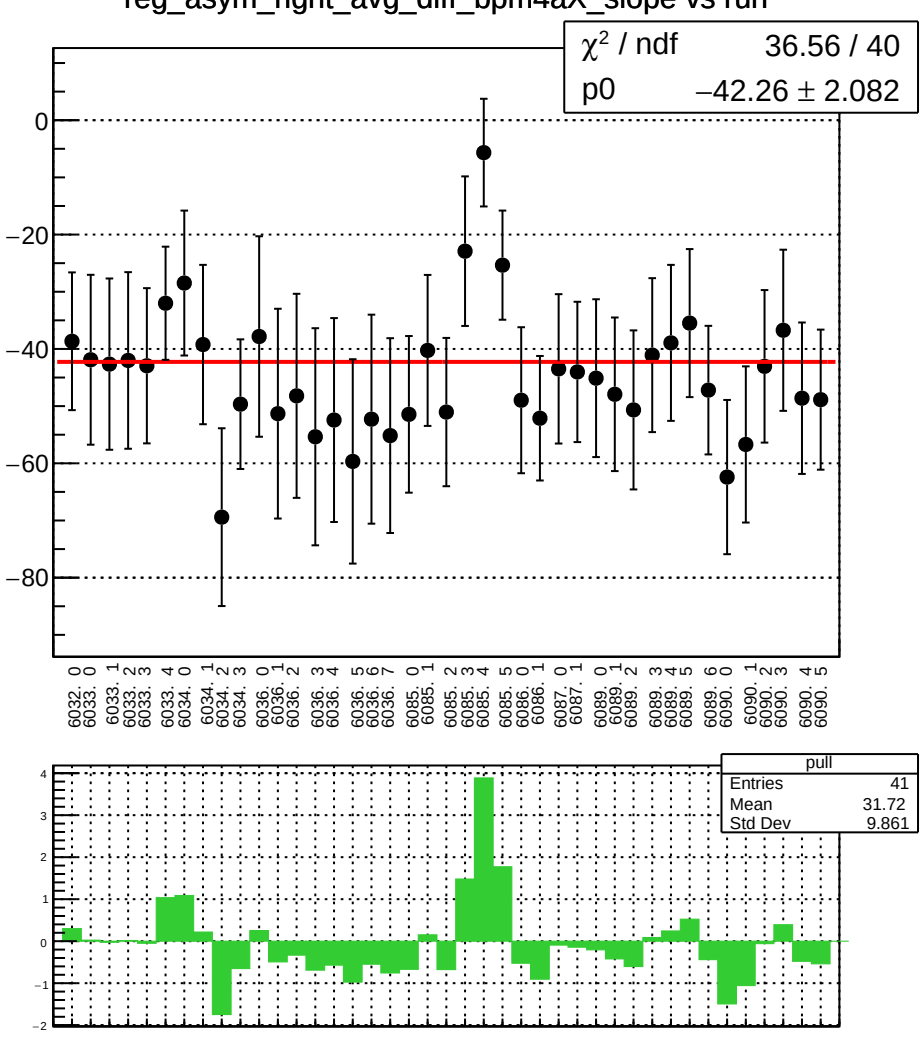

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 42.94 / 40
p0 26.37 ± 1.475
pull
Entries 41
Mean 144.8
Std Dev 123.7

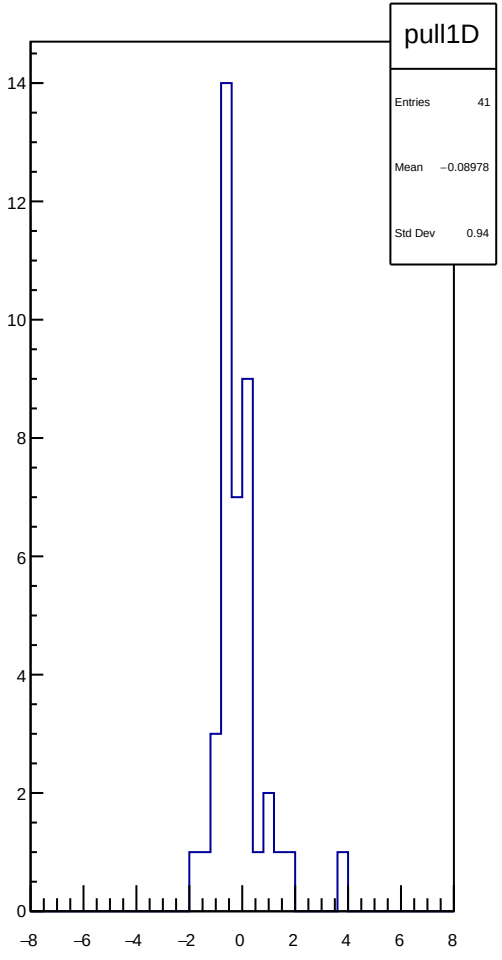

pull1D
Entries 41
Mean 0.03586
Std Dev 1.023

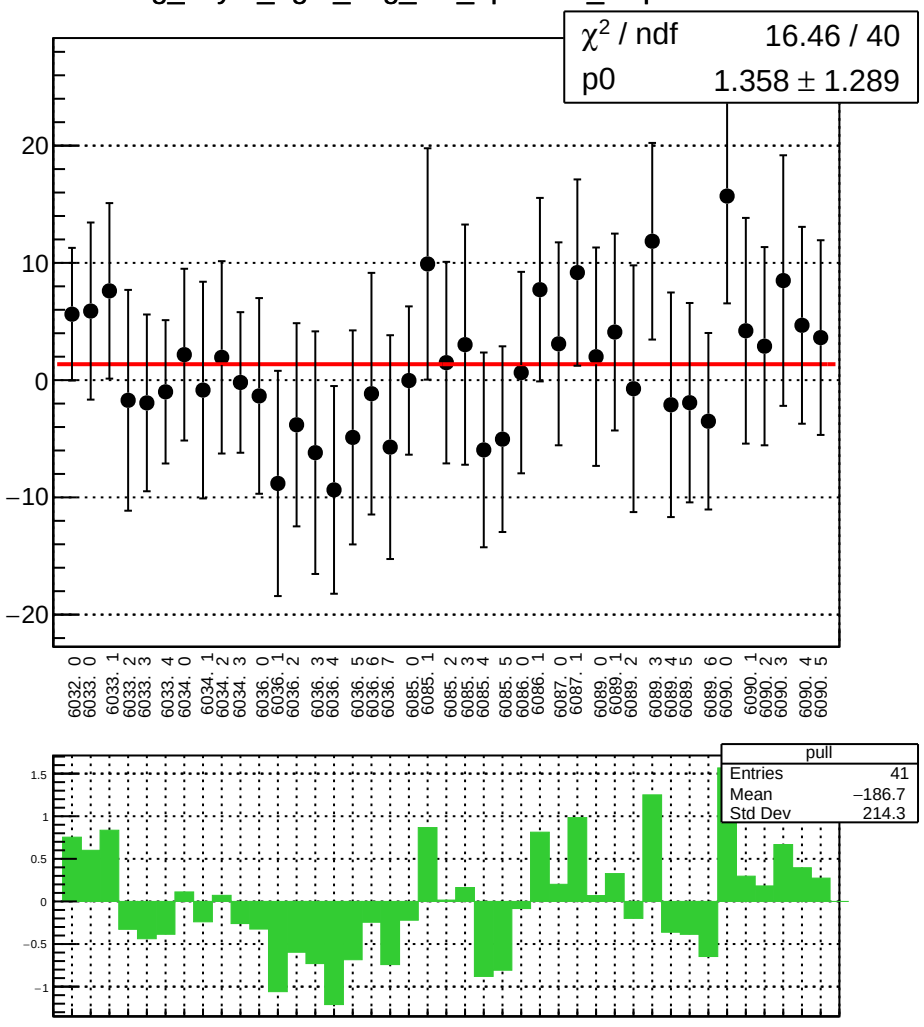

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.65 / 40
p0 4.455 ± 0.8685
pull
Entries 41
Mean 187.5
Std Dev 159.5

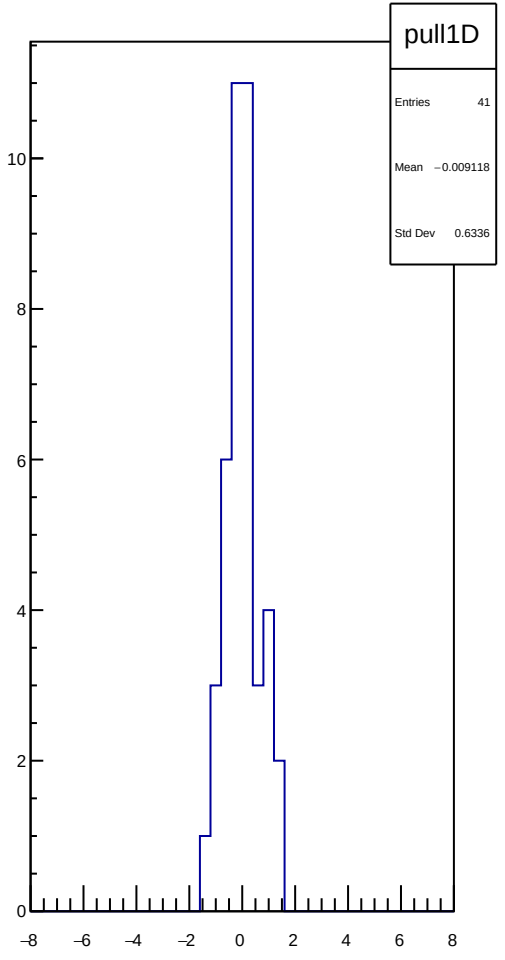

pull1D
Entries 41
Mean −0.02651
Std Dev 1.154

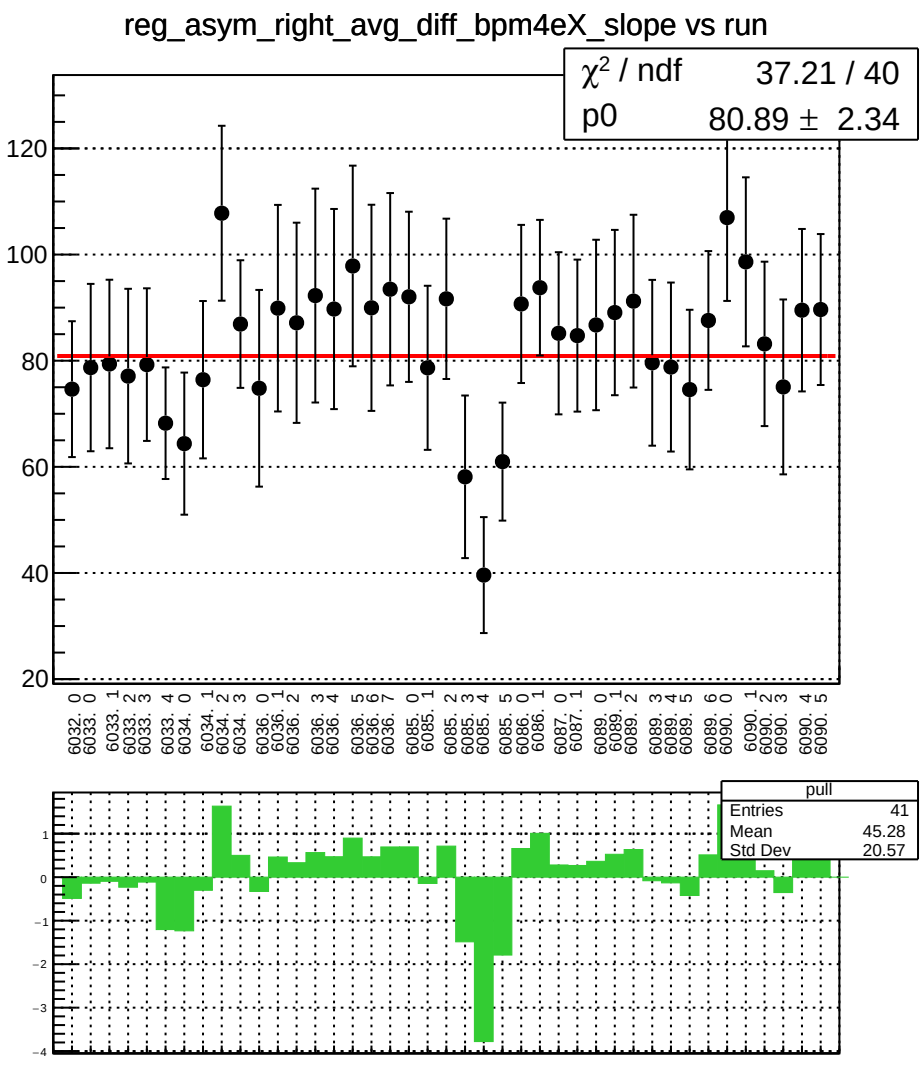

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 169.7 / 40
p0 −18.58 ± 0.06739
−16
−17
−18
−19
−20
−21
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 421.3
Std Dev 401.1
pull1D
Entries 41
Mean −0.04349
Std Dev 2.034

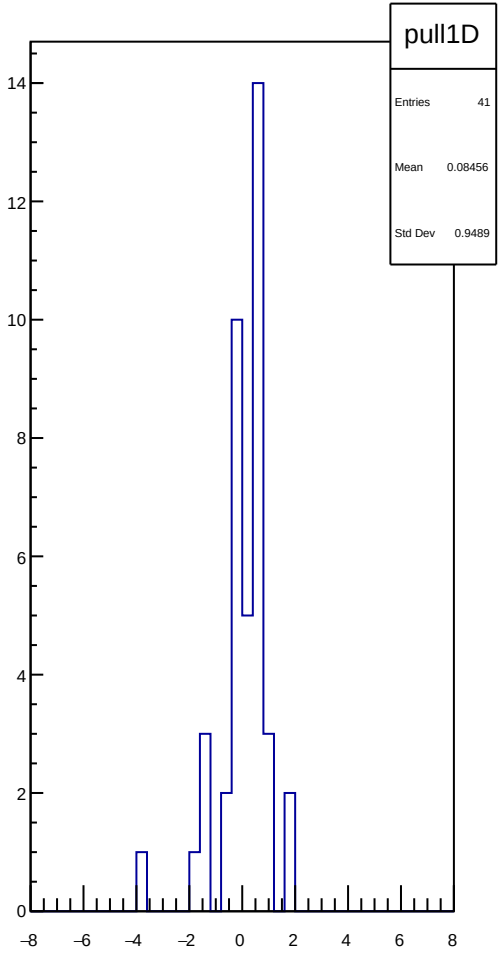

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.56 / 40
p0 −42.26 ± 2.082
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 31.72
Std Dev 9.861
4
3
2
1
0
−1
−2

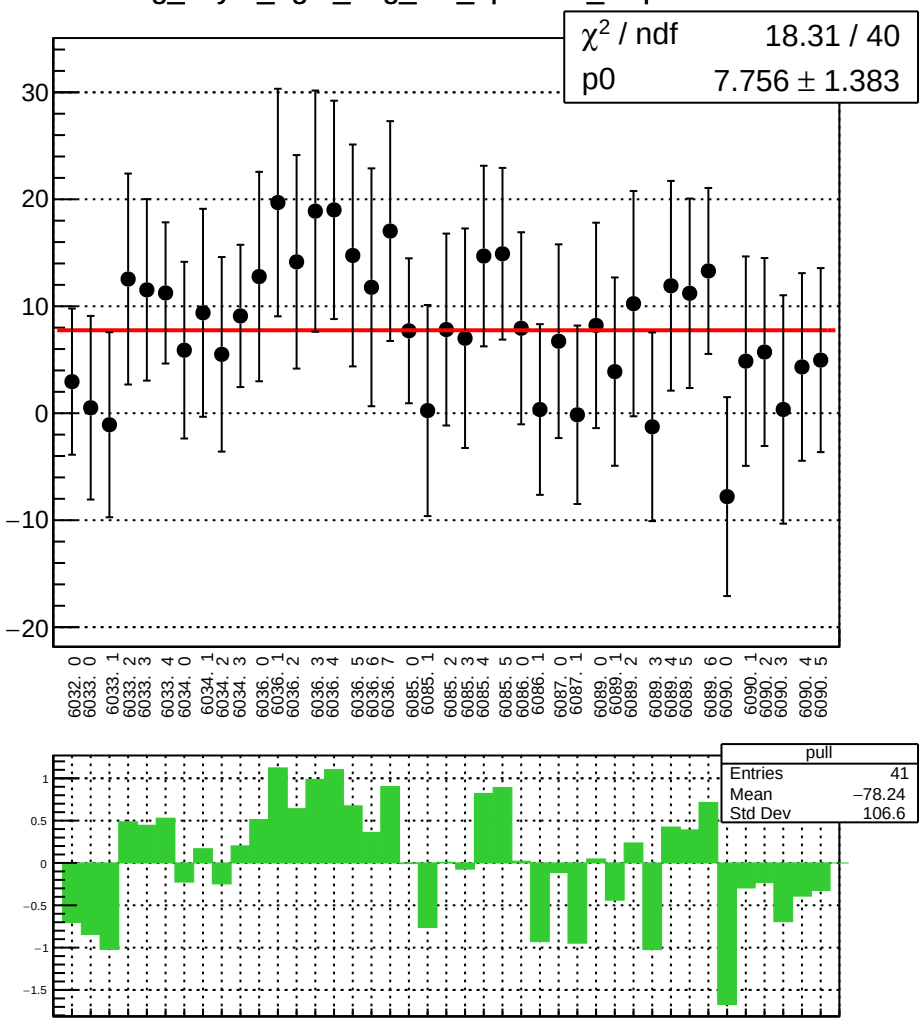

pull1D
Entries 41
Mean −0.08978
Std Dev 0.94
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

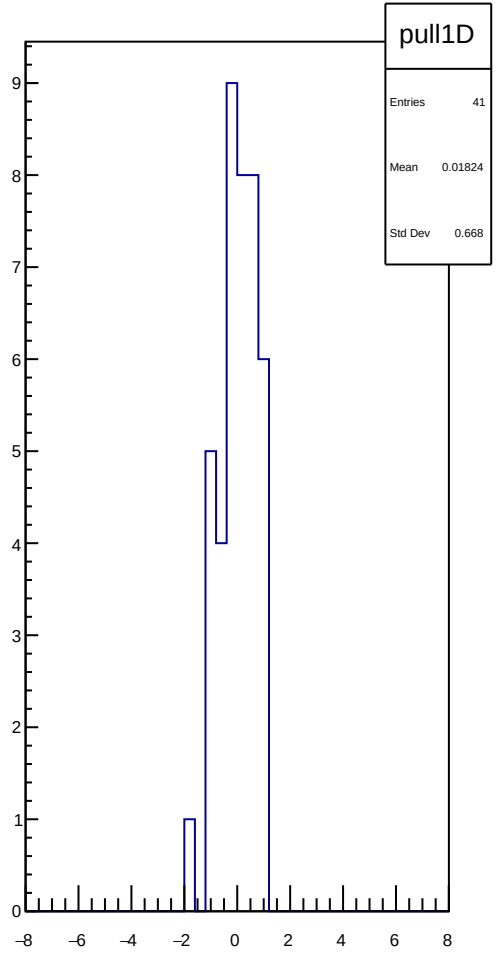

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.46 / 40
p0 1.358 ± 1.289
pull
Entries 41
Mean −186.7
Std Dev 214.3

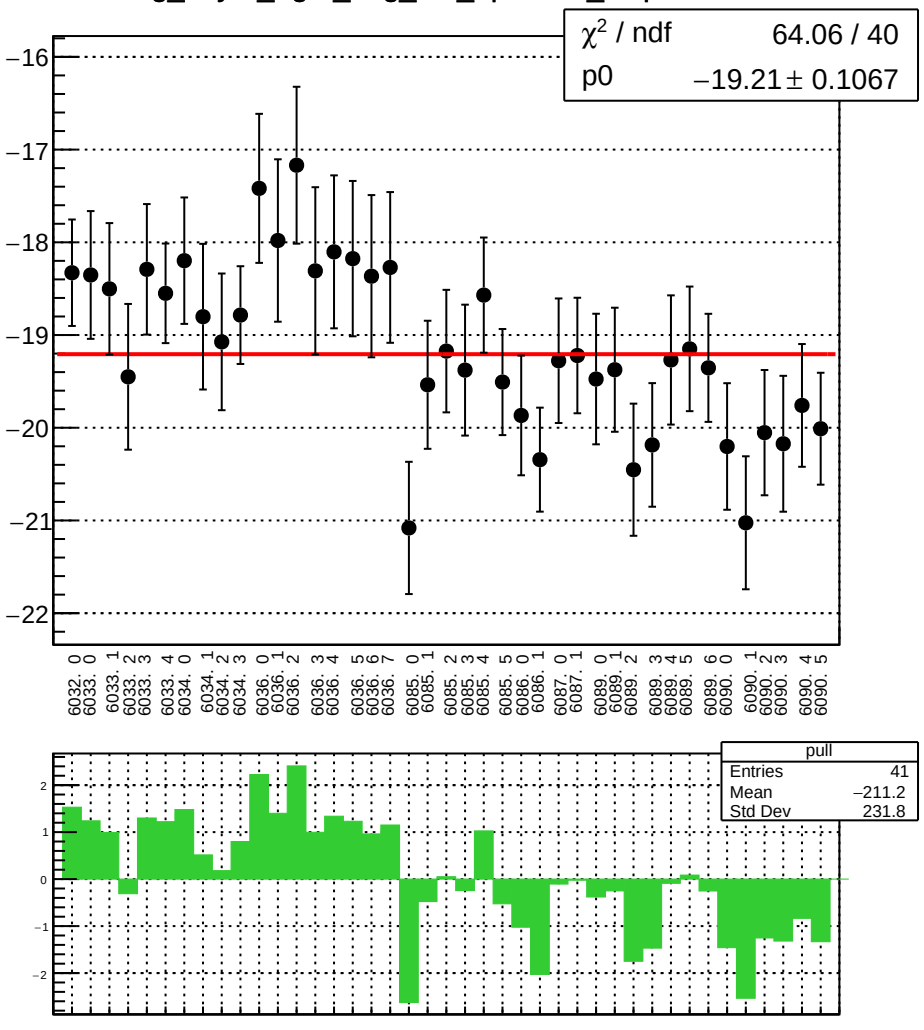

pull1D
Entries 41
Mean −0.009118
Std Dev 0.6336

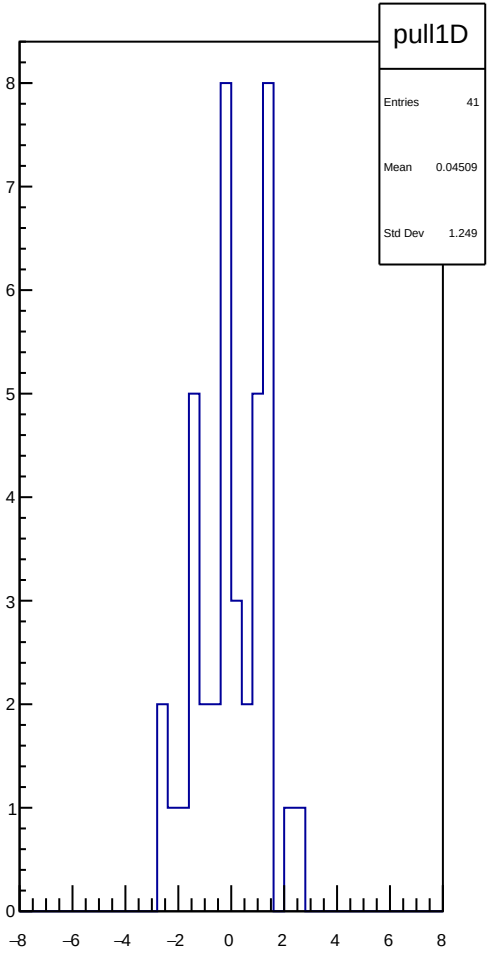

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.21 / 40
p0 80.89 ± 2.34
pull
Entries 41
Mean 45.28
Std Dev 20.57

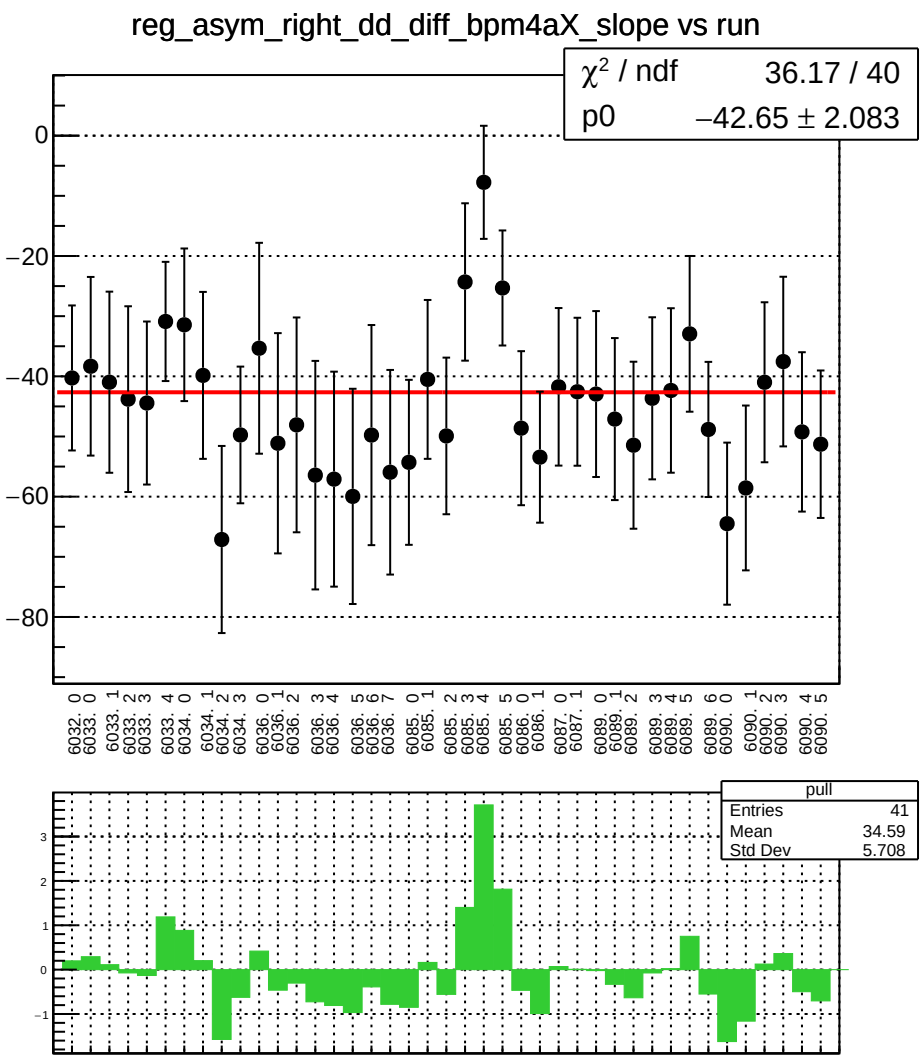

pull1D
Entries 41
Mean 0.08456
Std Dev 0.9489

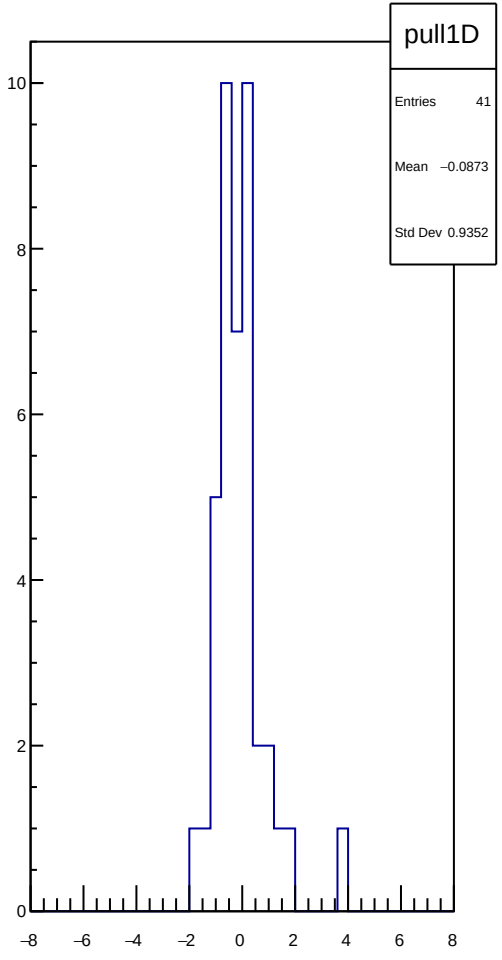

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.31 / 40
p0 7.756 ± 1.383
pull
Entries 41
Mean −78.24
Std Dev 106.6

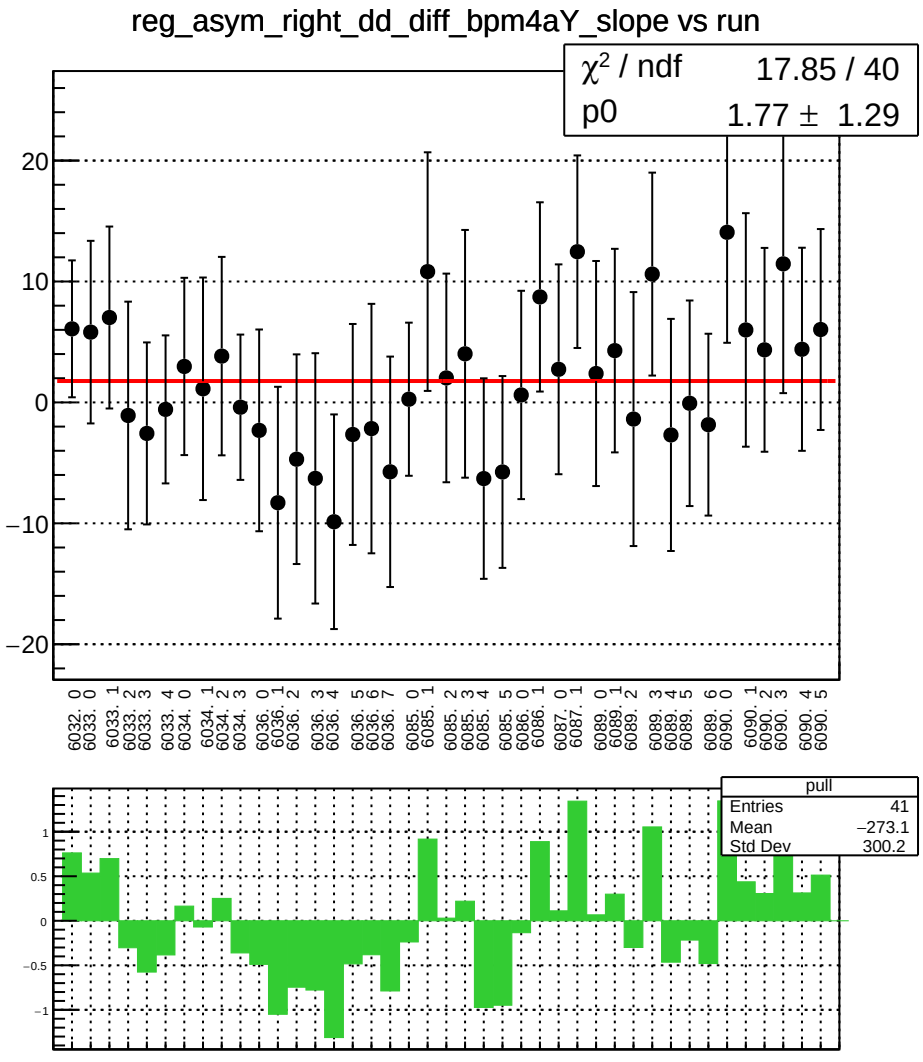

pull1D
Entries 41
Mean 0.01824
Std Dev 0.668

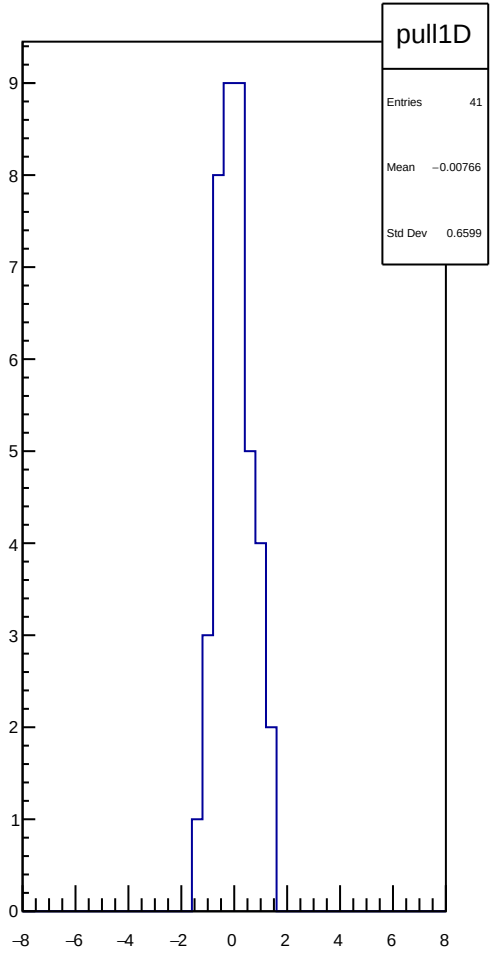

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 64.06 / 40
p0 −19.21 ± 0.1067
pull
Entries 41
Mean −211.2
Std Dev 231.8

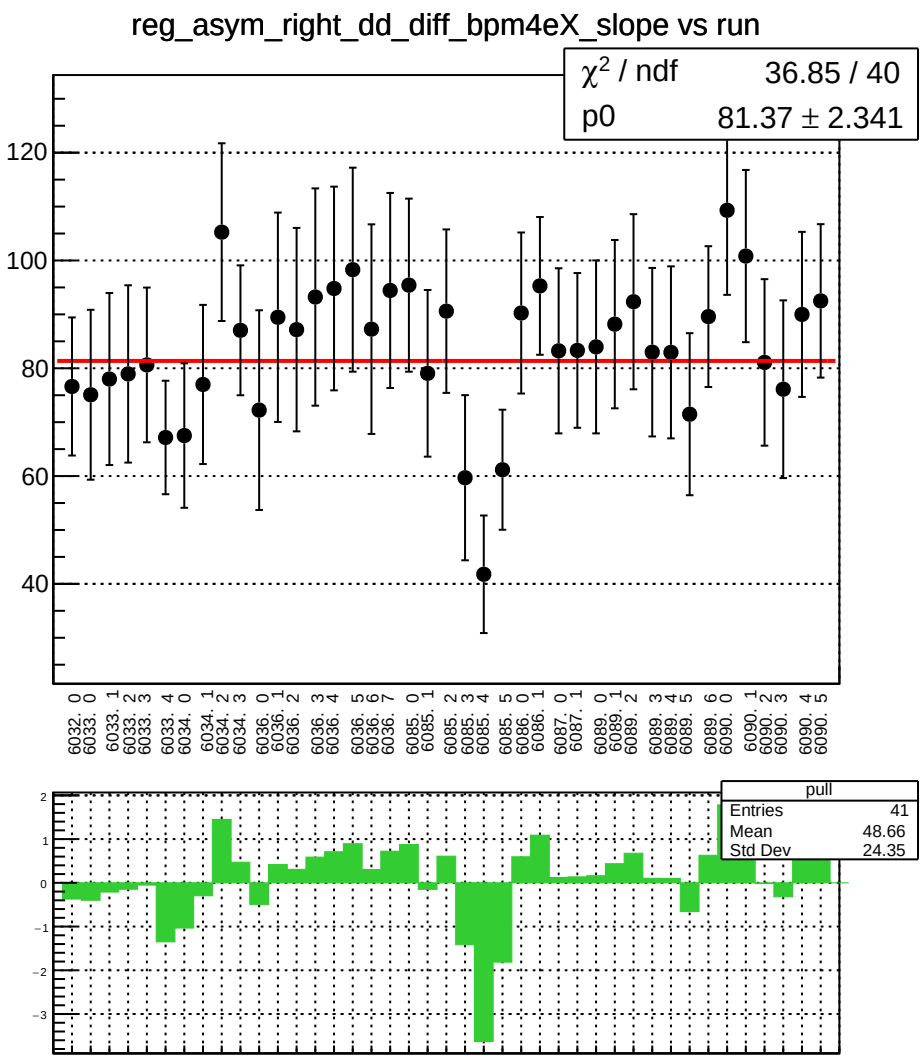

pull1D
Entries 41
Mean 0.04509
Std Dev 1.249

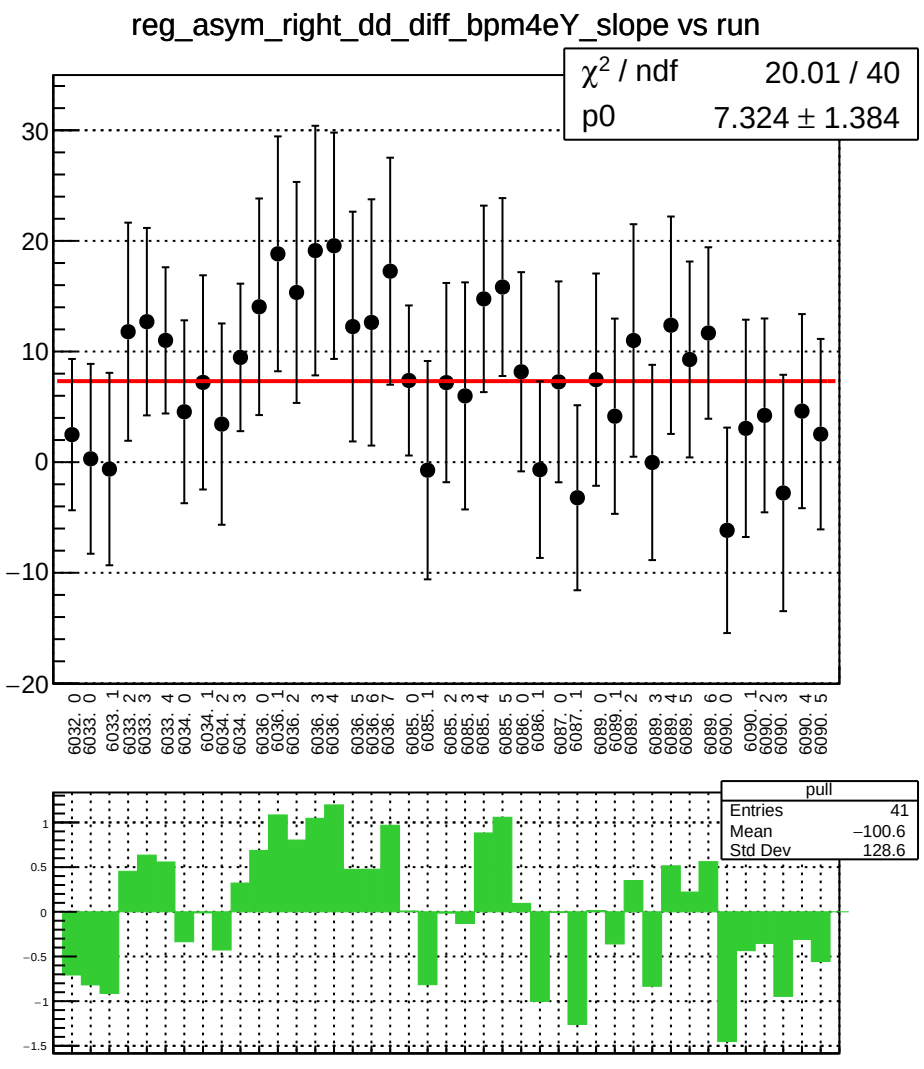

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.17 / 40
p0 −42.65 ± 2.083
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 34.59
Std Dev 5.708
3
2
1
0
−1

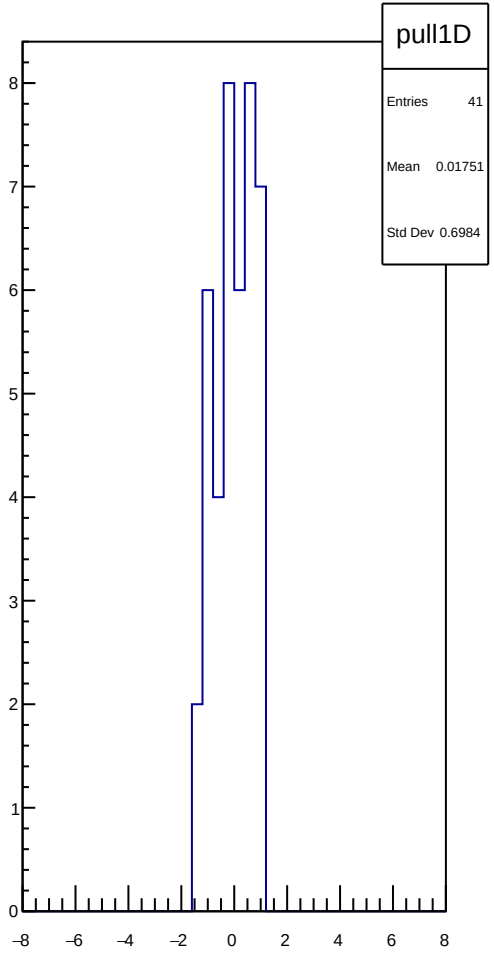

pull1D
Entries 41
Mean −0.0873
Std Dev 0.9352
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

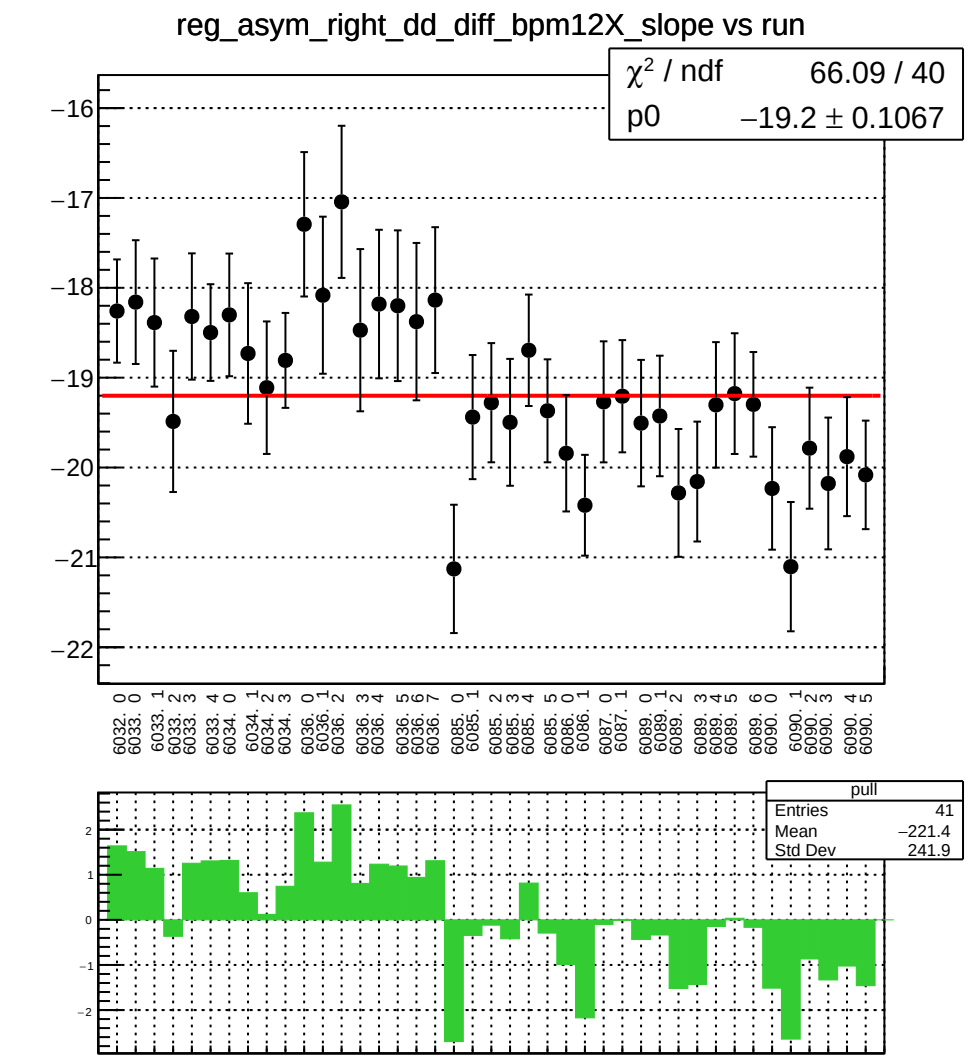

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.85 / 40
p0 1.77 ± 1.29
pull
Entries 41
Mean −273.1
Std Dev 300.2

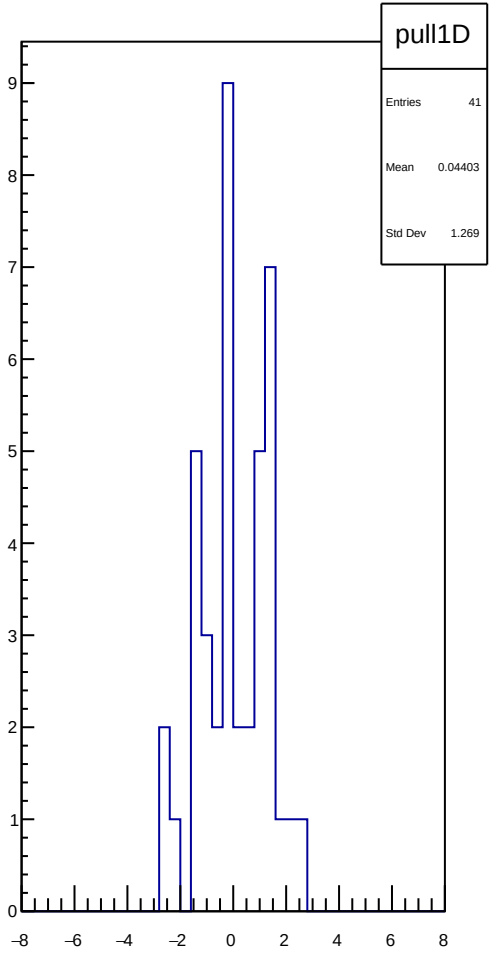

pull1D
Entries 41
Mean −0.00766
Std Dev 0.6599

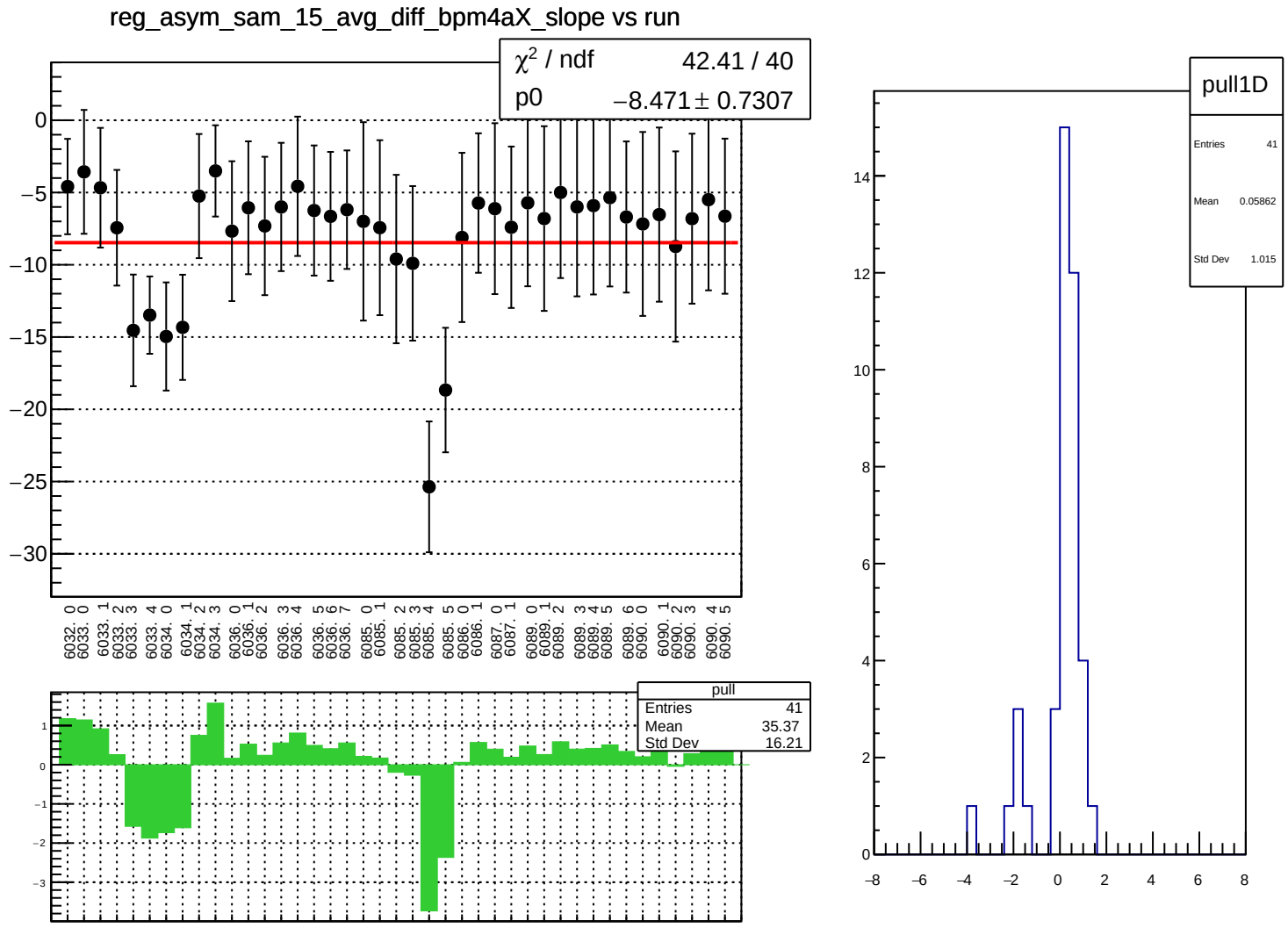

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.85 / 40
p0 81.37 ± 2.341
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 48.66
Std Dev 24.35
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.0827
Std Dev 0.9444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

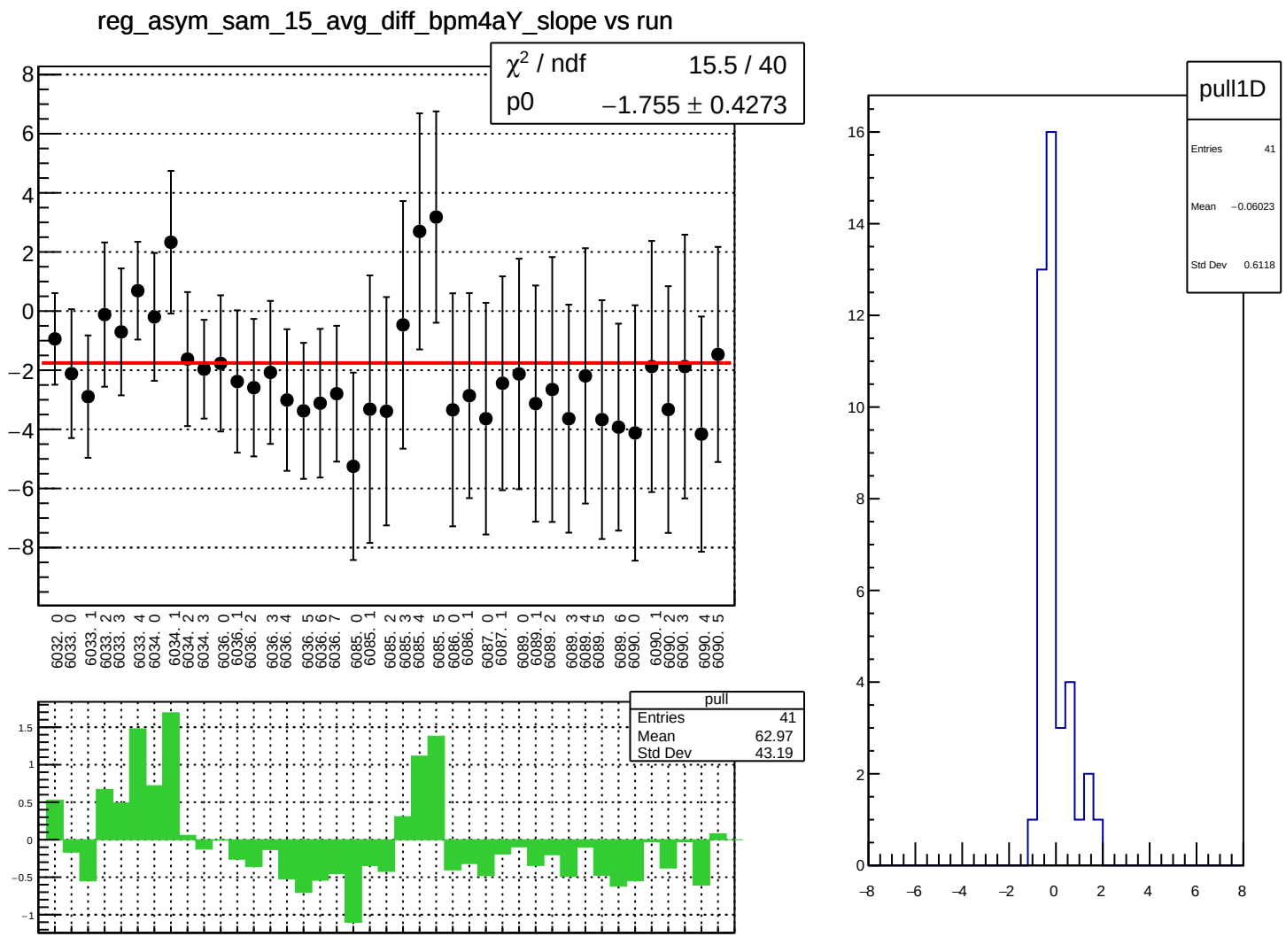

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.01 / 40
p0 7.324 ± 1.384
pull
Entries 41
Mean −100.6
Std Dev 128.6

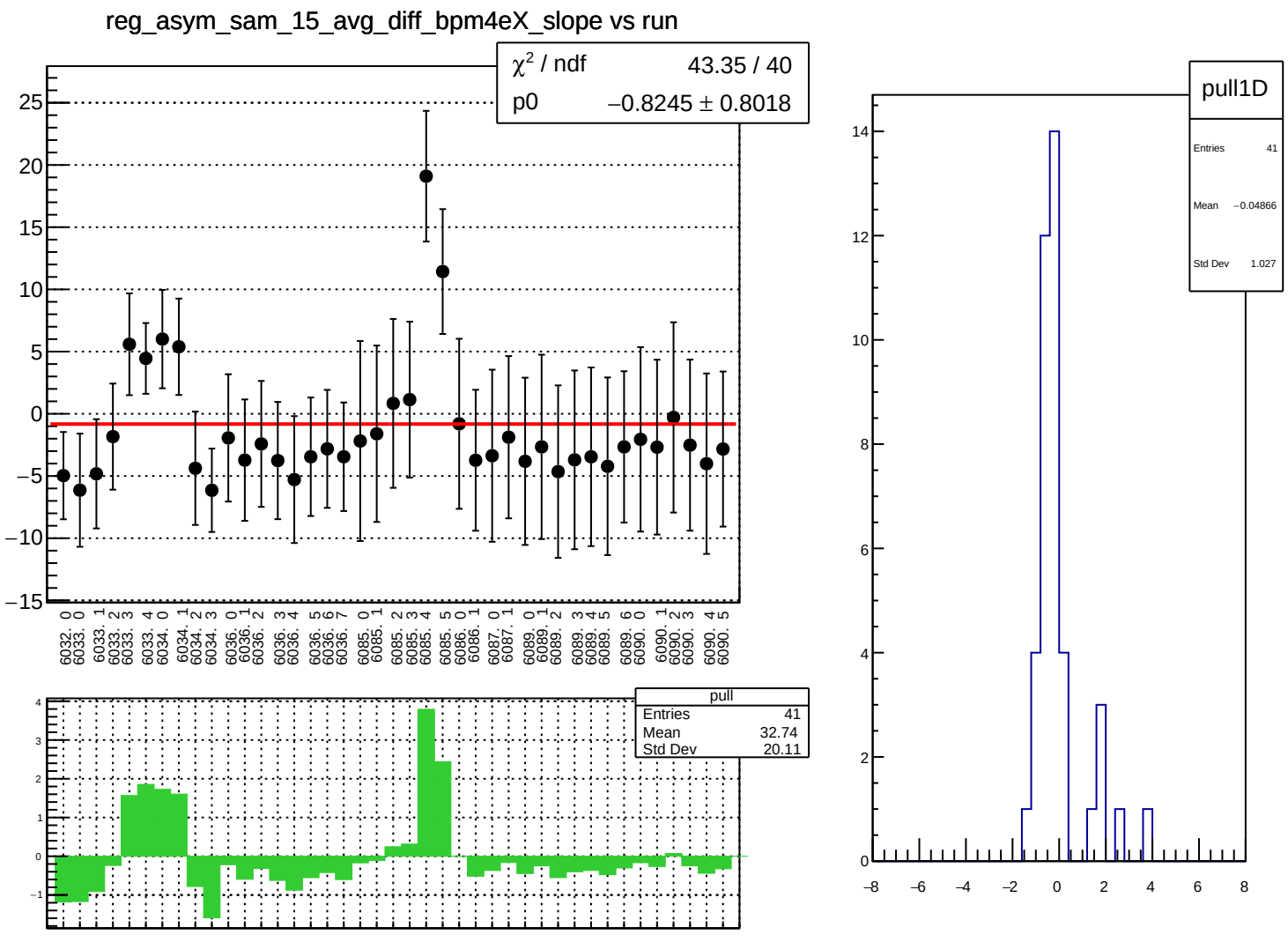

pull1D
Entries 41
Mean 0.01751
Std Dev 0.6984

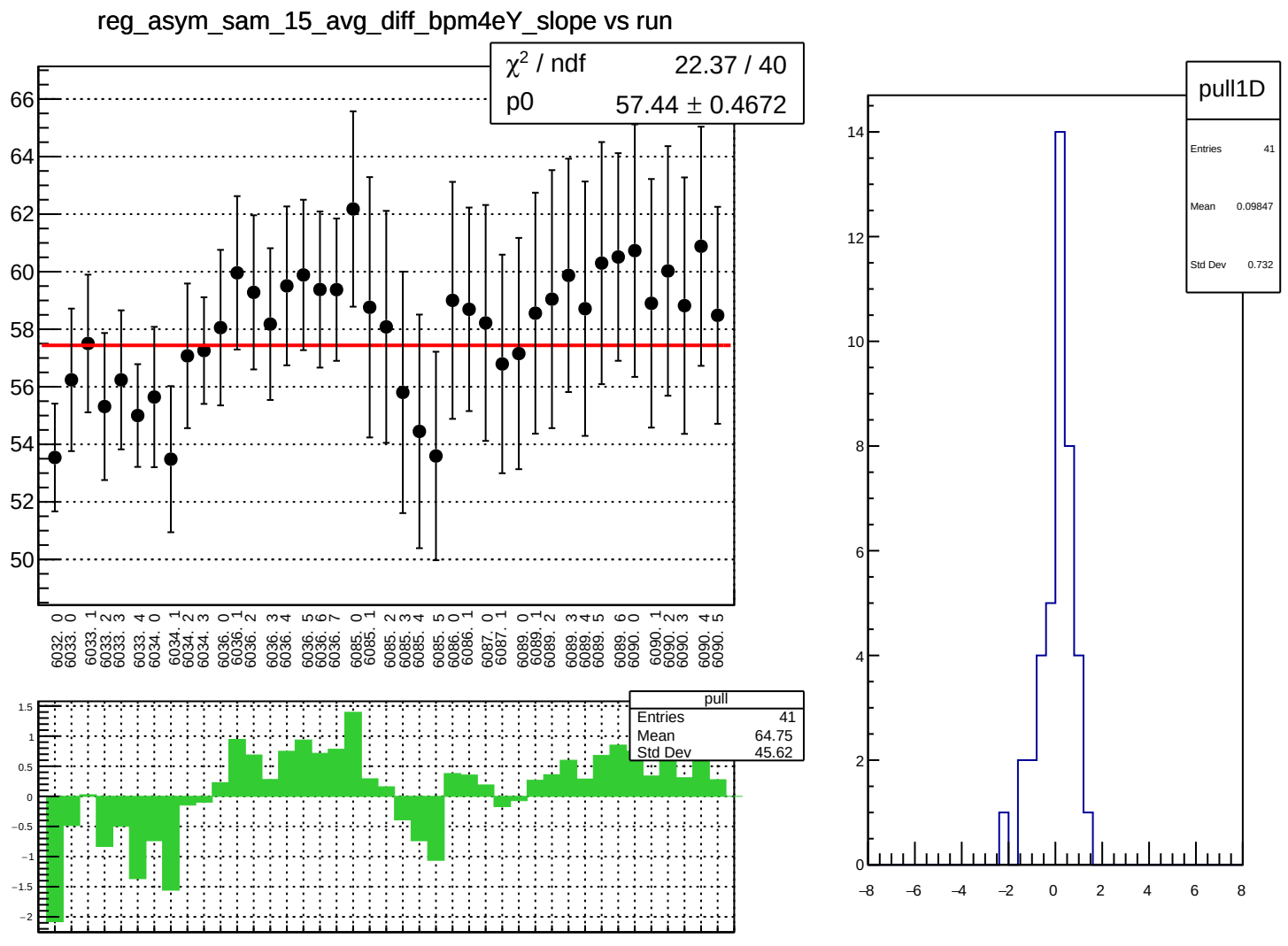

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 66.09 / 40
p0 −19.2 ± 0.1067
pull
Entries 41
Mean −221.4
Std Dev 241.9

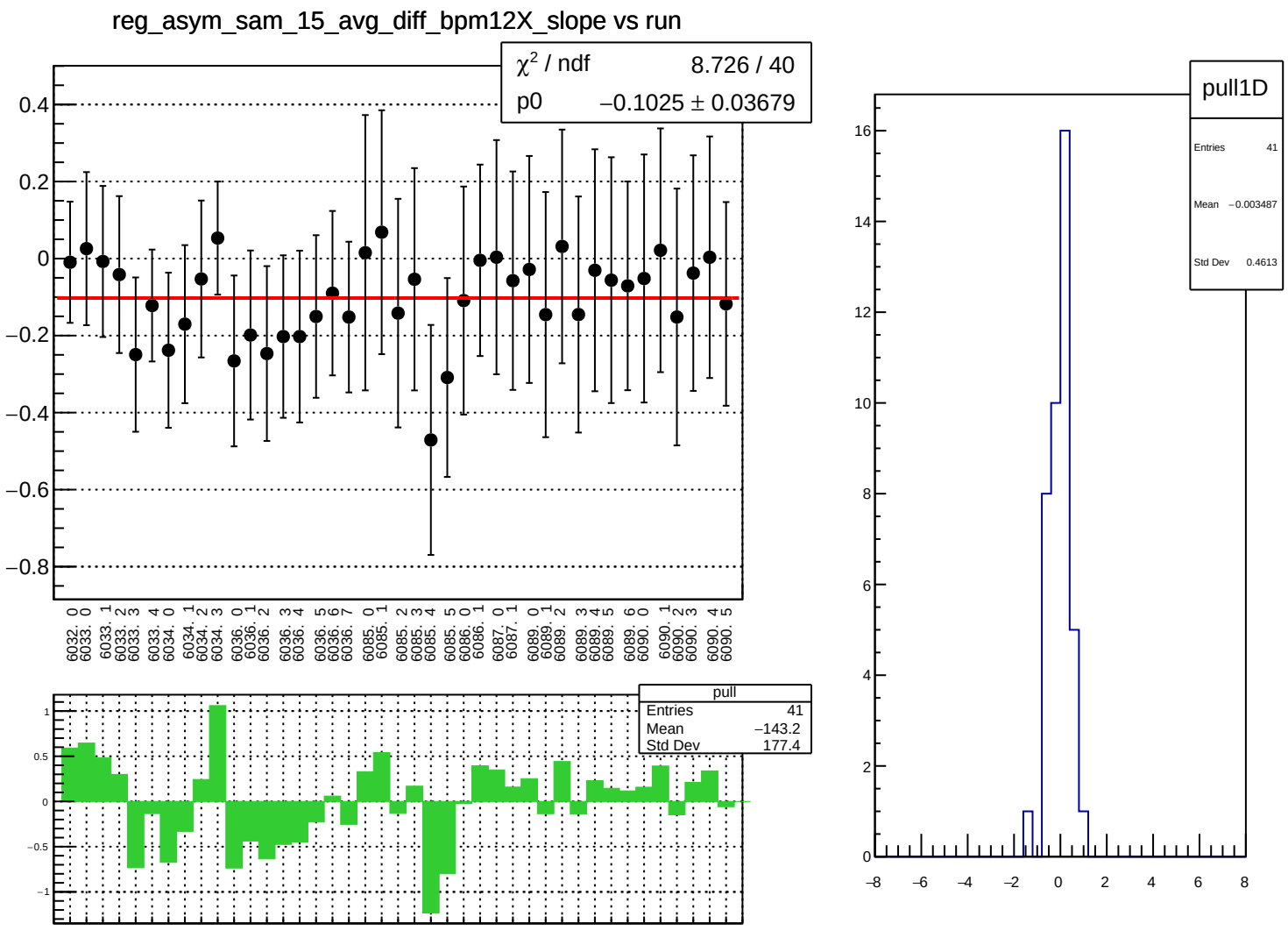

pull1D
Entries 41
Mean 0.04403
Std Dev 1.269

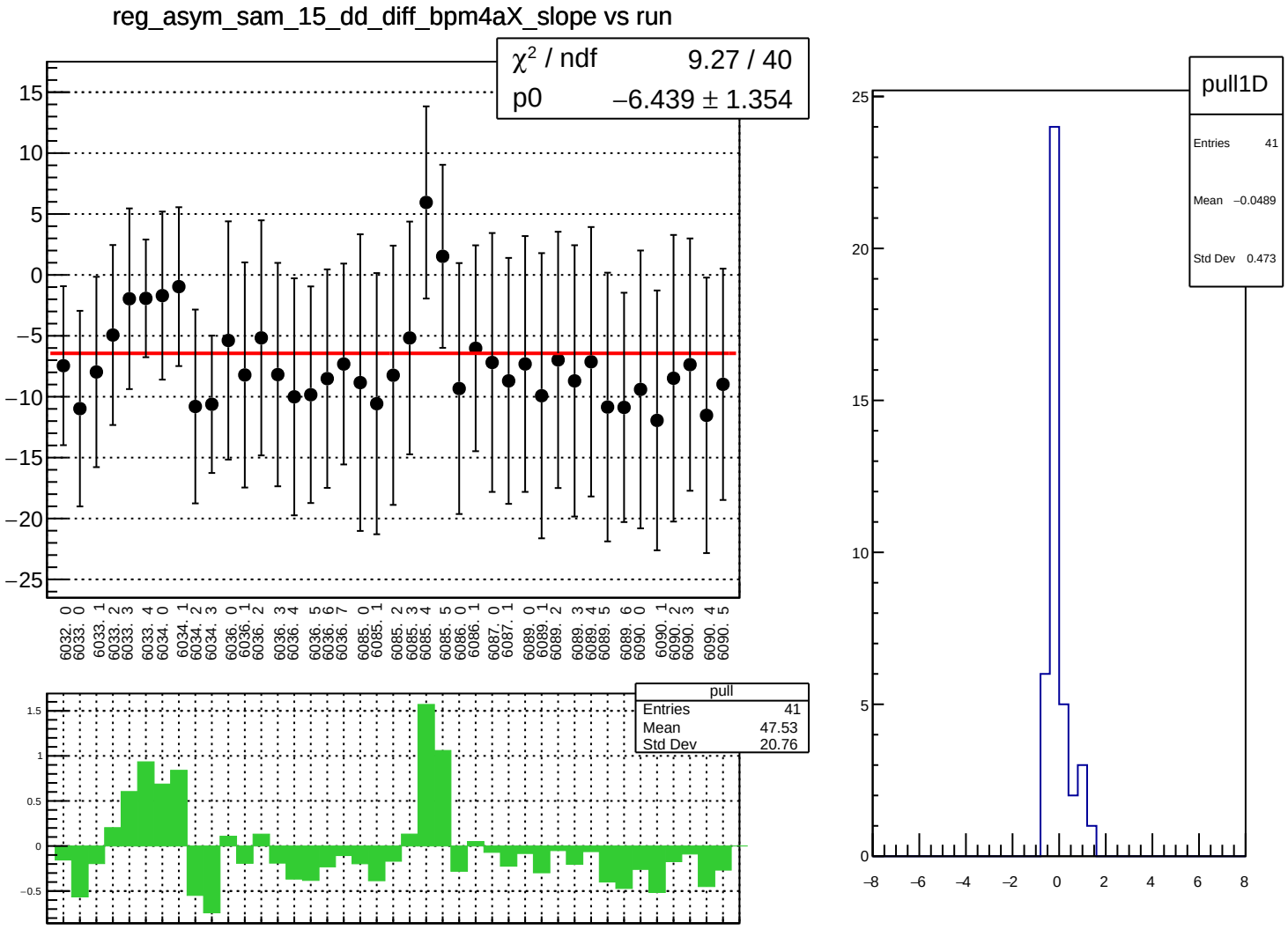

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 42.41 / 40
p0 −8.471 ± 0.7307
0
−5
−10
−15
−20
−25
−30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 35.37
Std Dev 16.21
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.05862
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

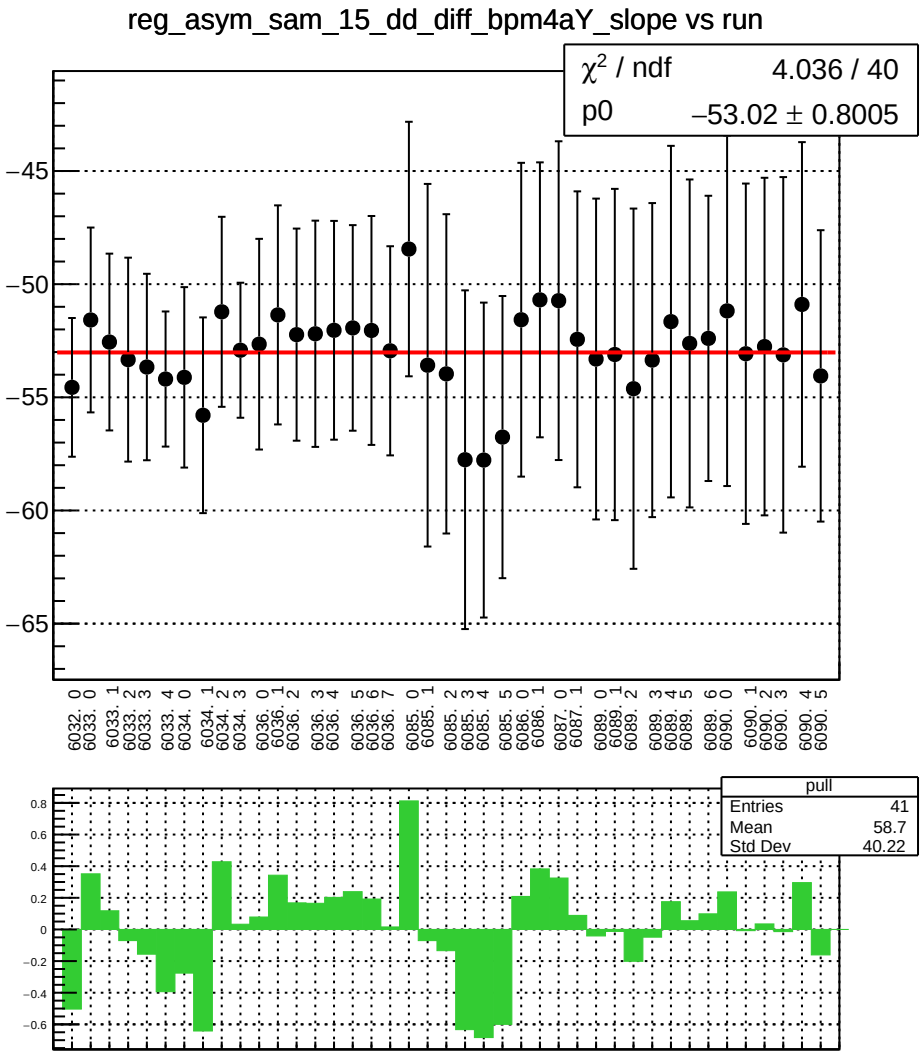

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.5 / 40
p0 −1.755 ± 0.4273
pull
Entries 41
Mean 62.97
Std Dev 43.19
pull1D
Entries 41
Mean −0.06023
Std Dev 0.6118

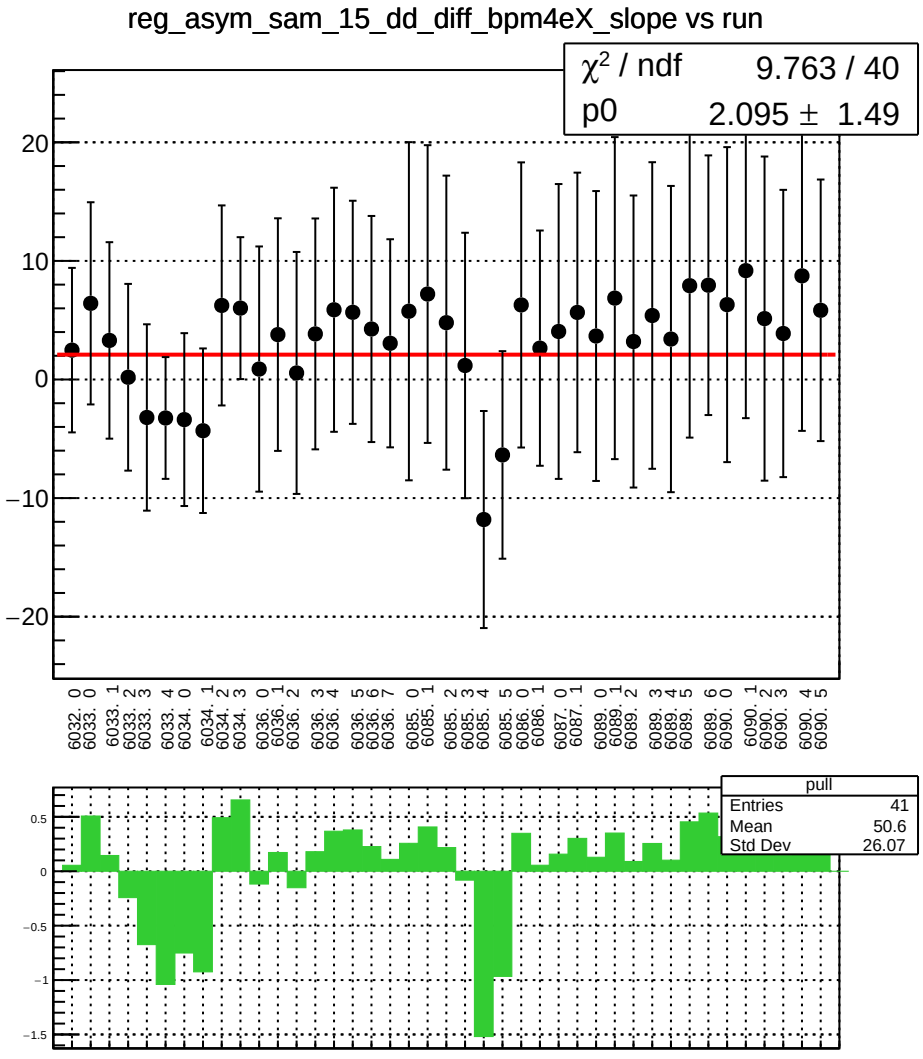

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.35 / 40
p0 −0.8245 ± 0.8018
pull
Entries 41
Mean 32.74
Std Dev 20.11
pull1D
Entries 41
Mean −0.04866
Std Dev 1.027

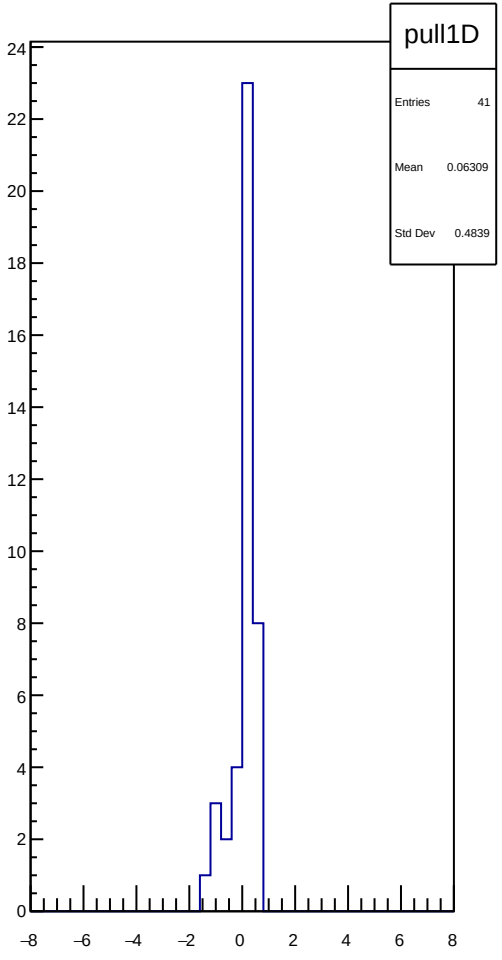

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.37 / 40
p0 57.44 ± 0.4672
pull
Entries 41
Mean 64.75
Std Dev 45.62
pull1D
Entries 41
Mean 0.09847
Std Dev 0.732

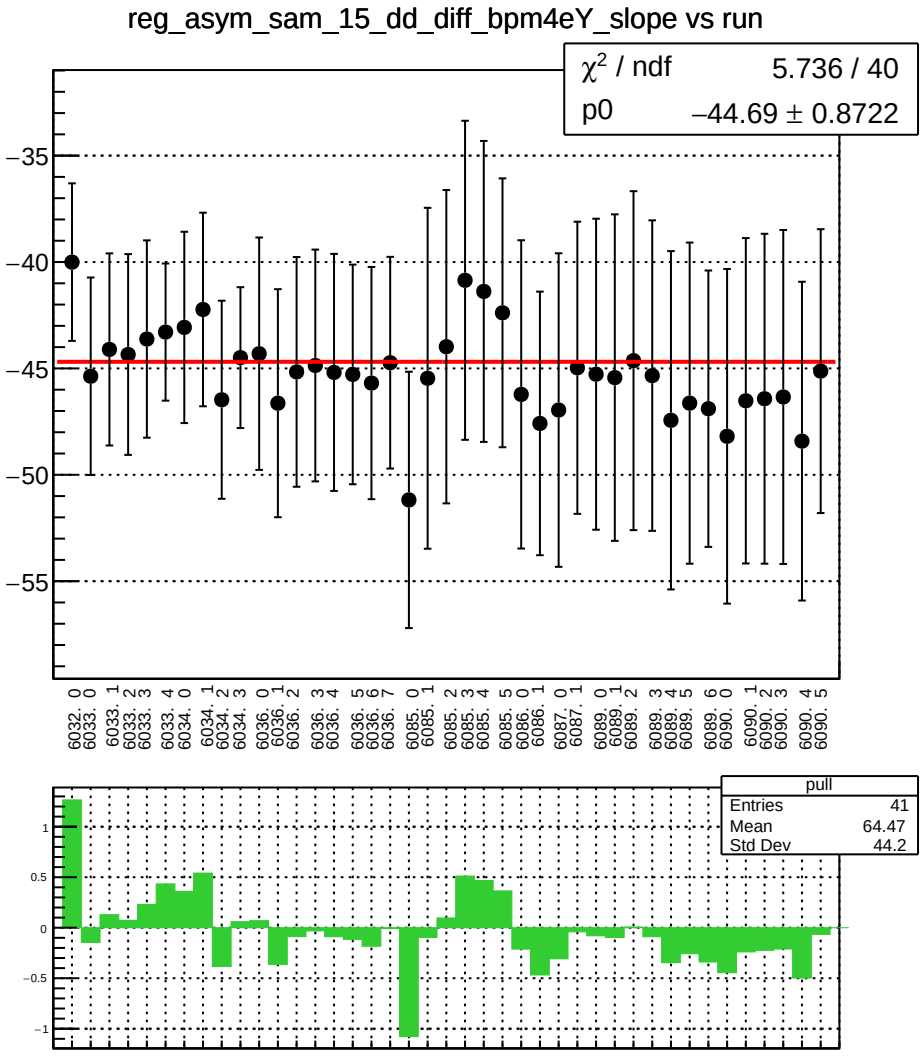

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 8.726 / 40
p0 −0.1025 ± 0.03679
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −143.2
Std Dev 177.4
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.003487
Std Dev 0.4613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

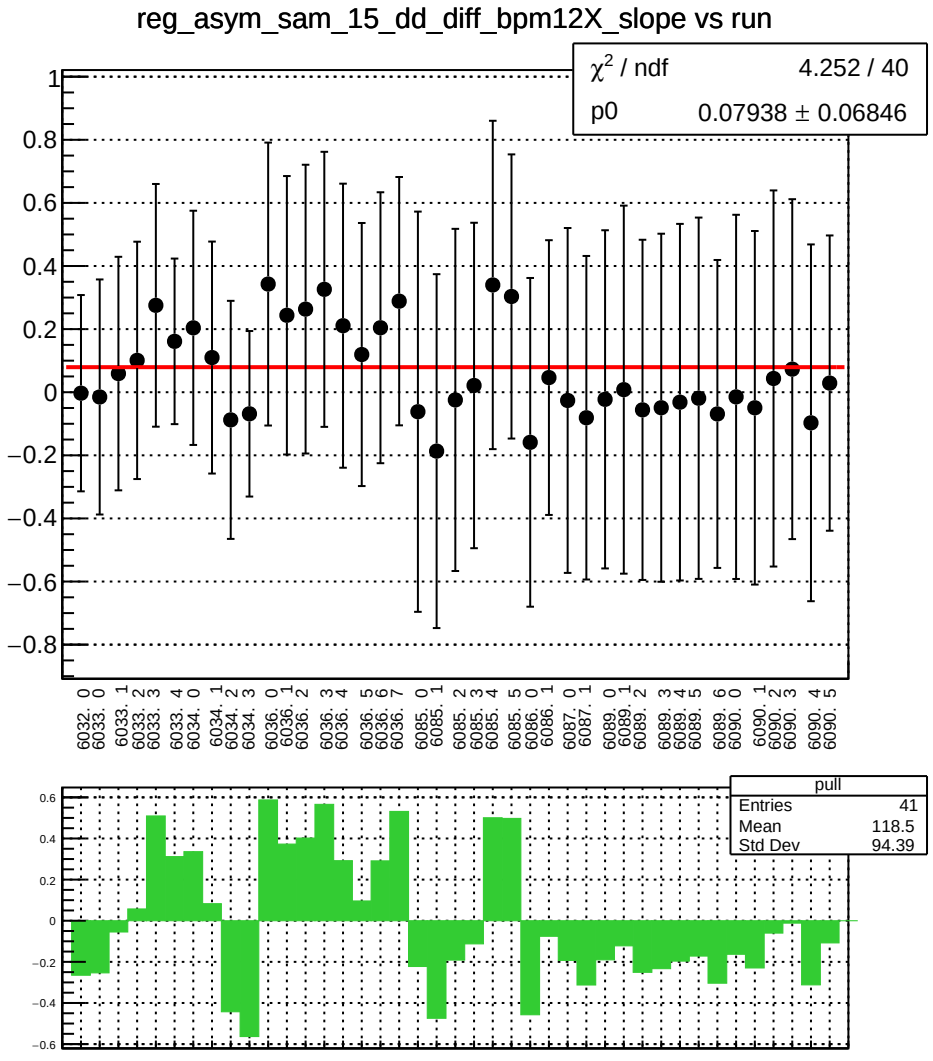

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.27 / 40
p0 −6.439 ± 1.354
pull
Entries 41
Mean 47.53
Std Dev 20.76
pull1D
Entries 41
Mean −0.0489
Std Dev 0.473

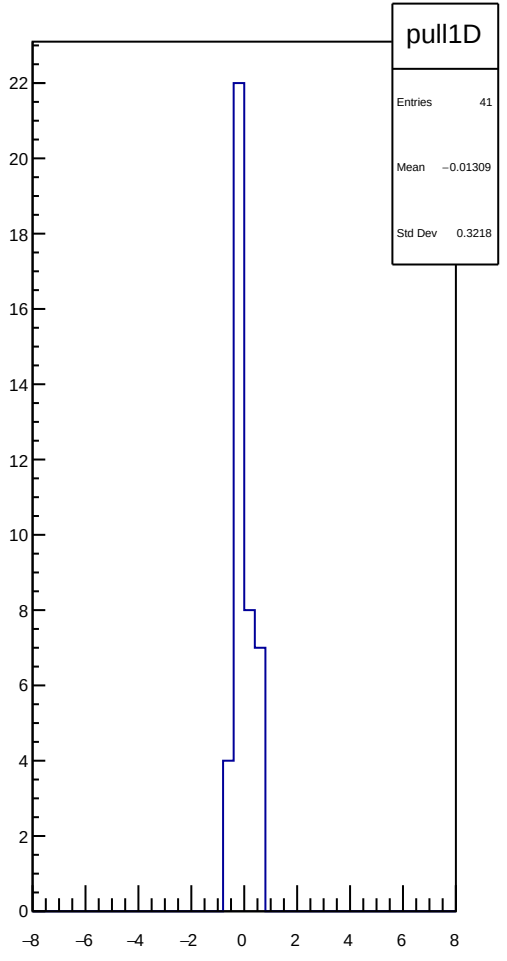

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.036 / 40
p0 −53.02 ± 0.8005
−45
−50
−55
−60
−65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 58.7
Std Dev 40.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.009802
Std Dev 0.3136
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

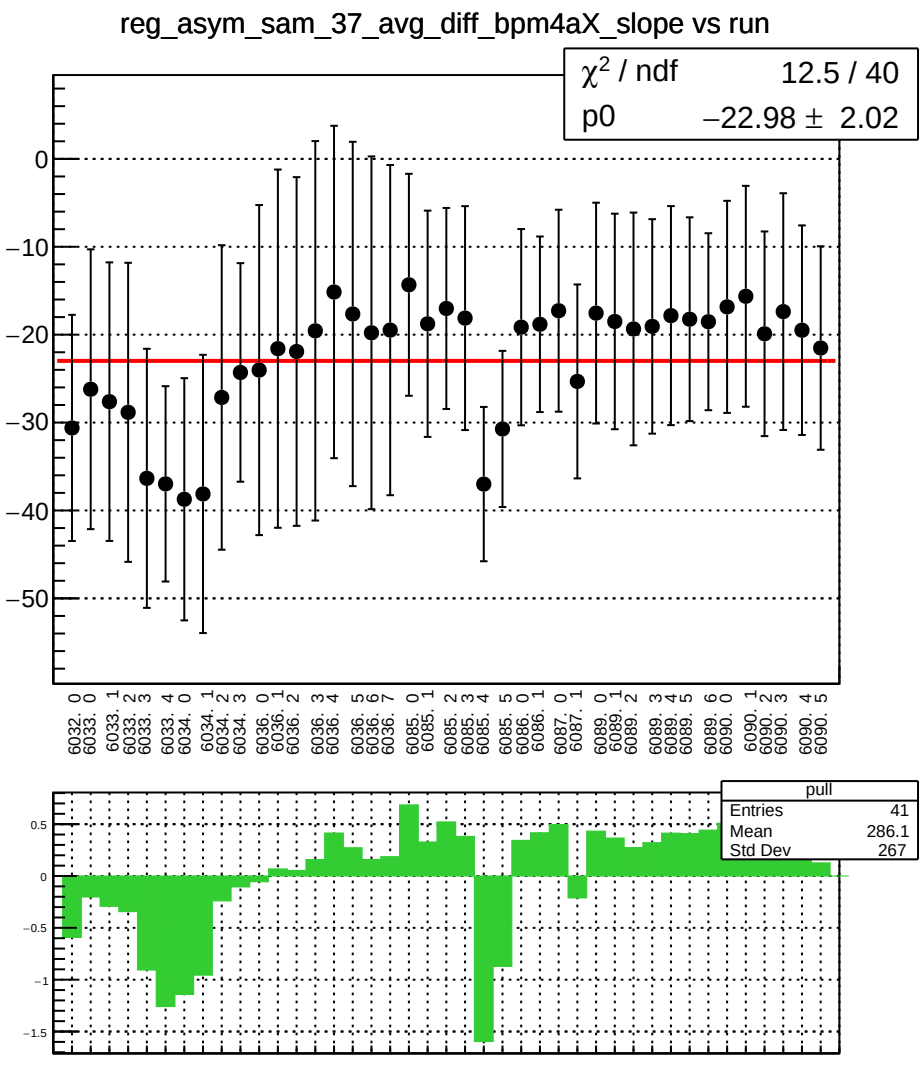

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.763 / 40
p0 2.095 ± 1.49
pull
Entries 41
Mean 50.6
Std Dev 26.07

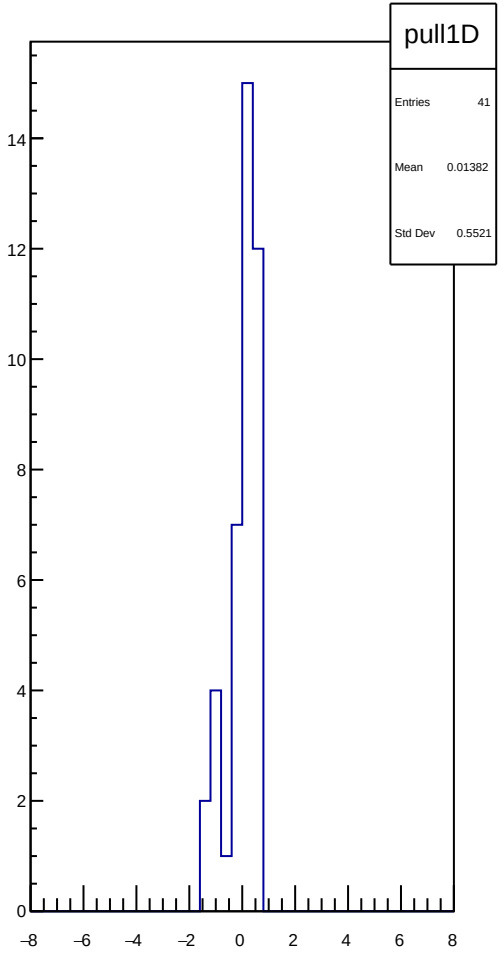

pull1D
Entries 41
Mean 0.06309
Std Dev 0.4839

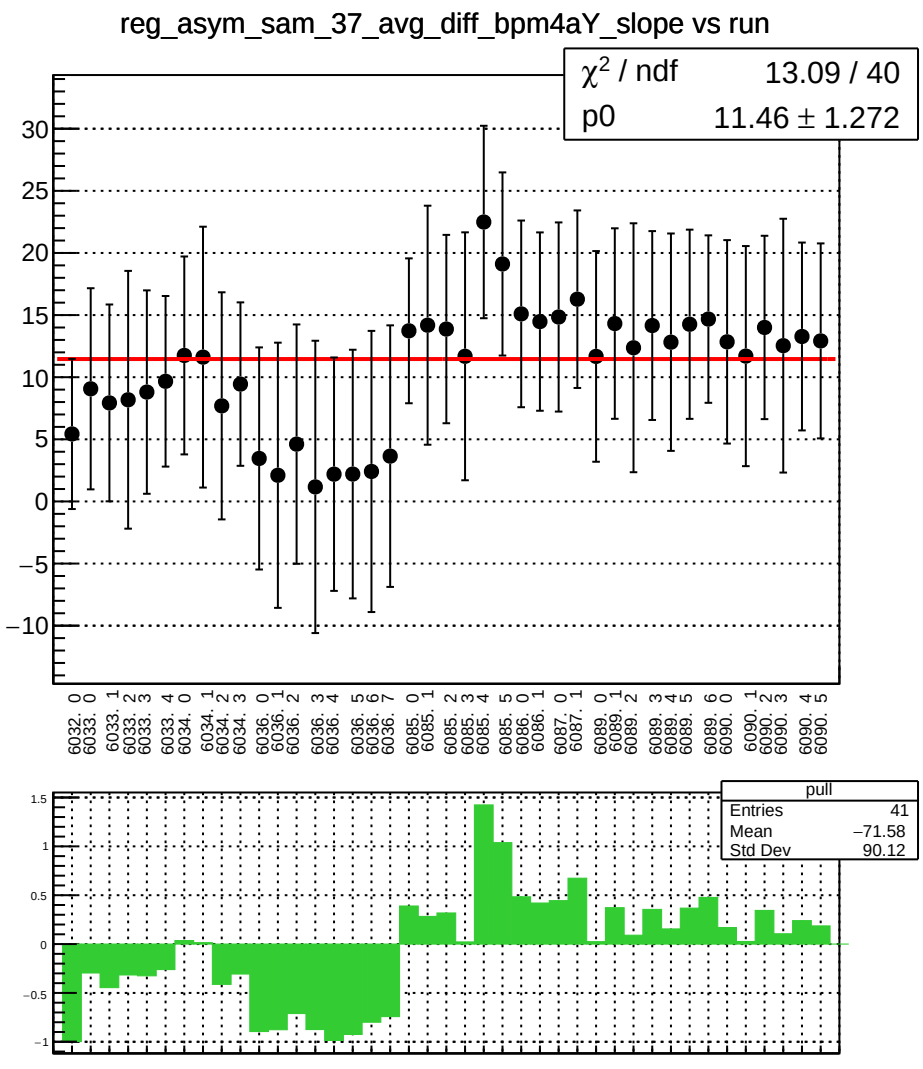

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.736 / 40
p0 −44.69 ± 0.8722
−35
−40
−45
−50
−55
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 64.47
Std Dev 44.2
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.04609
Std Dev 0.3712
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

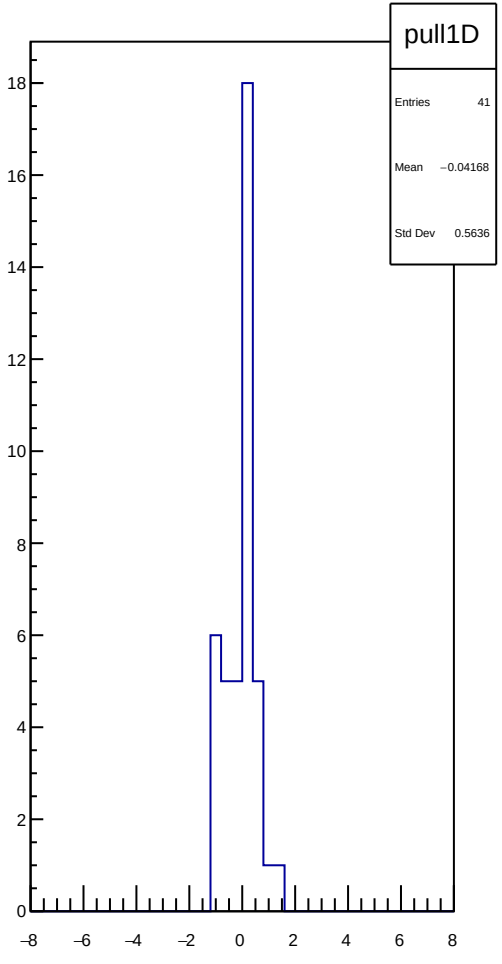

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.252 / 40
p0 0.07938 ± 0.06846
pull
Entries 41
Mean 118.5
Std Dev 94.39

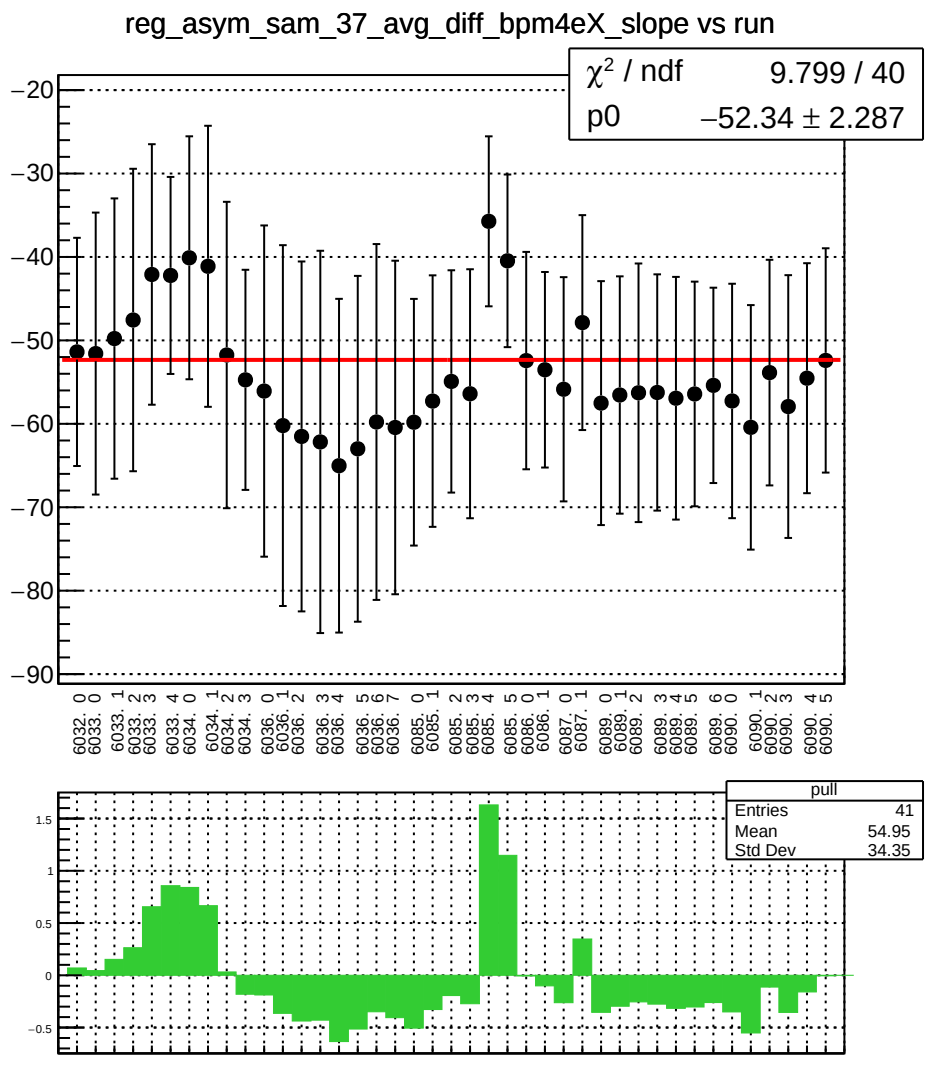

pull1D
Entries 41
Mean −0.01309
Std Dev 0.3218

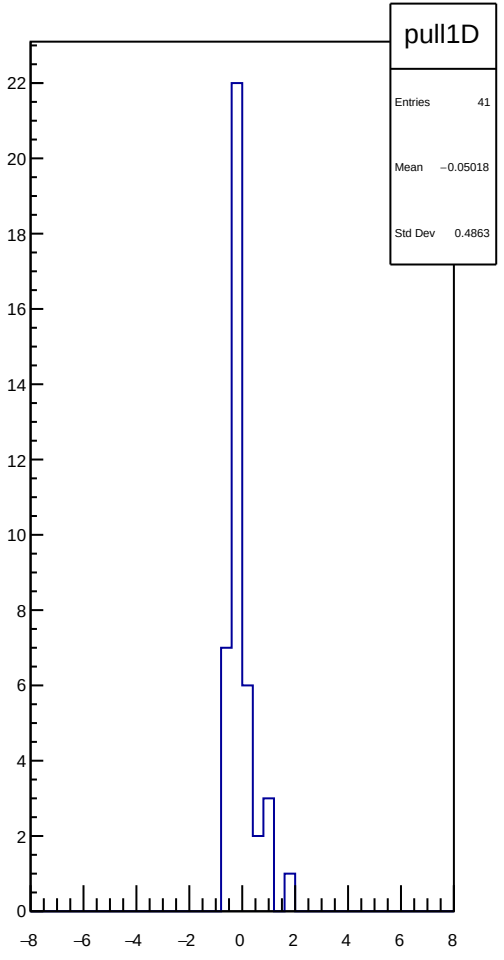

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.5 / 40
p0 −22.98 ± 2.02
0
−10
−20
−30
−40
−50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 286.1
Std Dev 267
0.5
0
−0.5
−1
−1.5

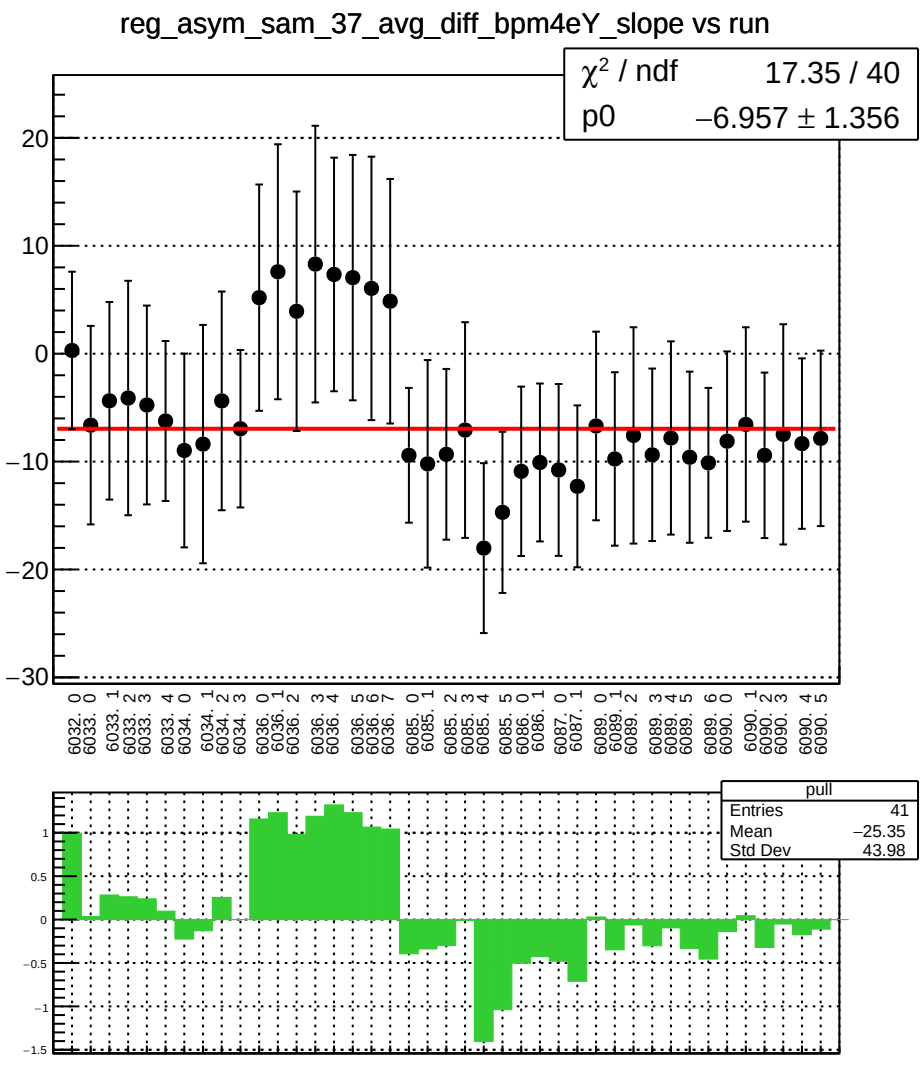

pull1D
Entries 41
Mean 0.01382
Std Dev 0.5521
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

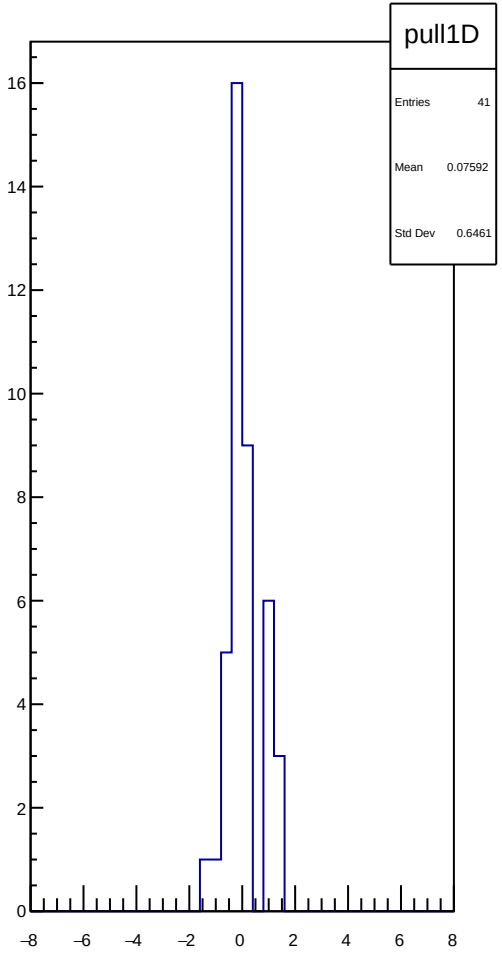

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 13.09 / 40
p0 11.46 ± 1.272
pull
Entries 41
Mean −71.58
Std Dev 90.12

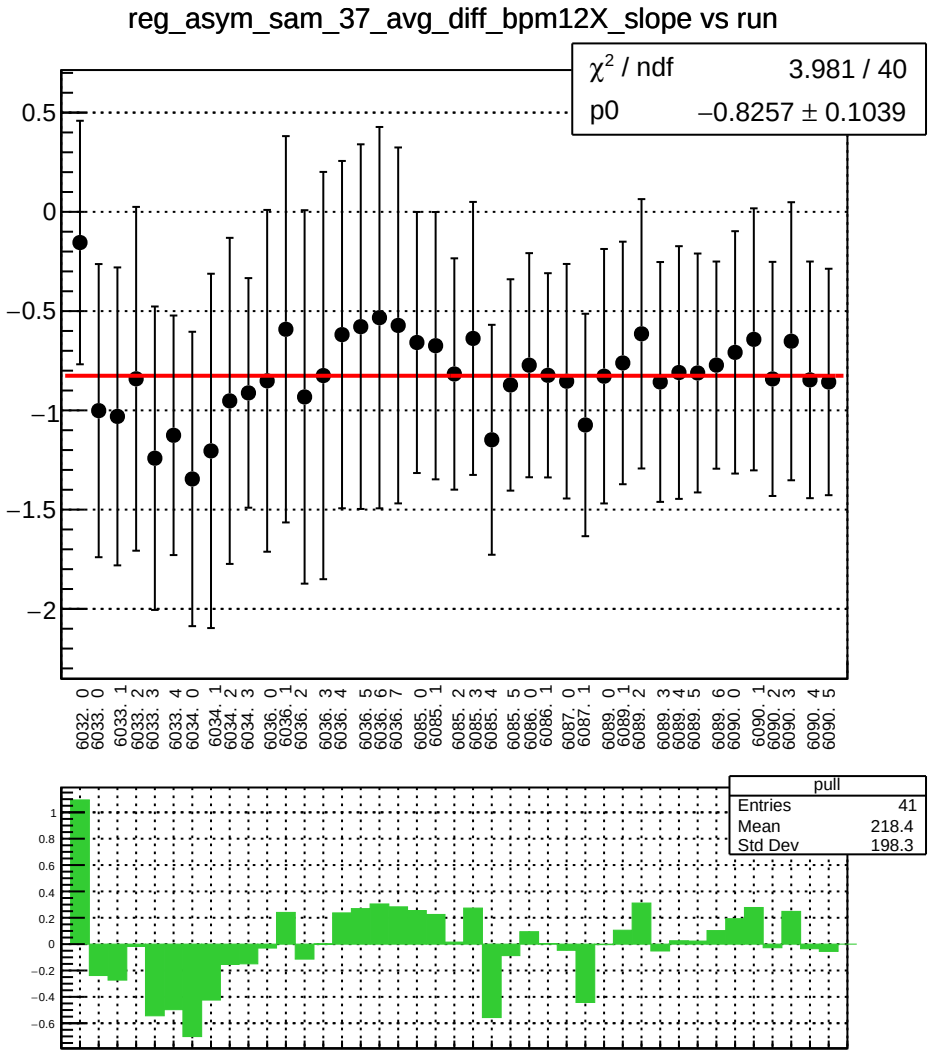

pull1D
Entries 41
Mean −0.04168
Std Dev 0.5636

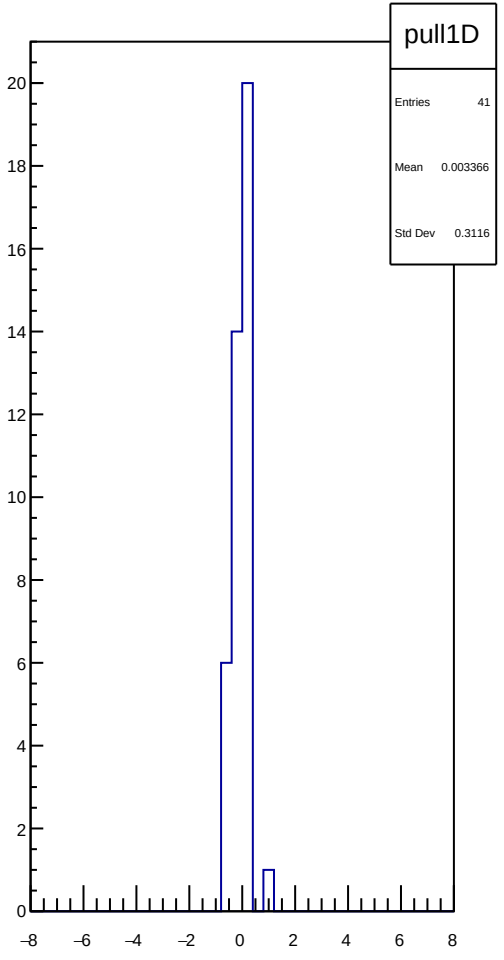

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.799 / 40
p0 −52.34 ± 2.287
pull
Entries 41
Mean 54.95
Std Dev 34.35

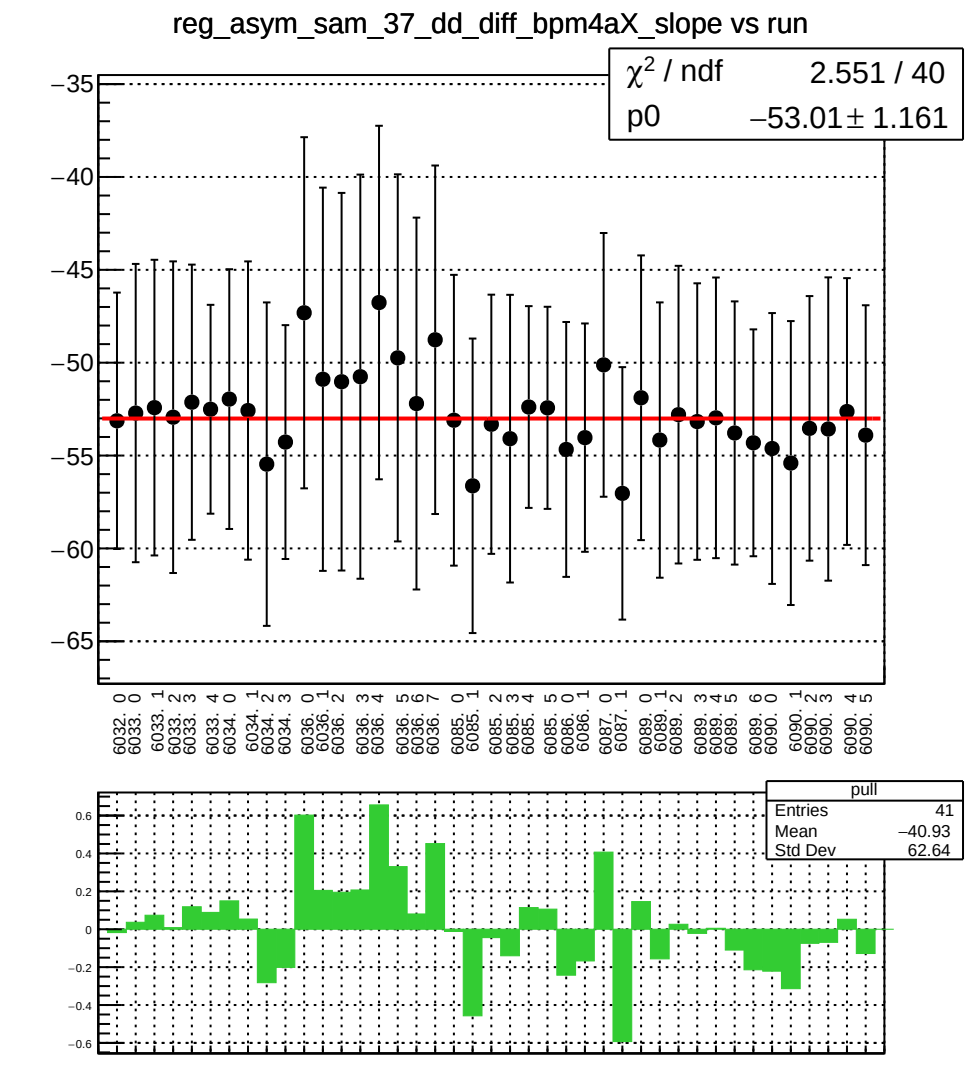

pull1D
Entries 41
Mean −0.05018
Std Dev 0.4863

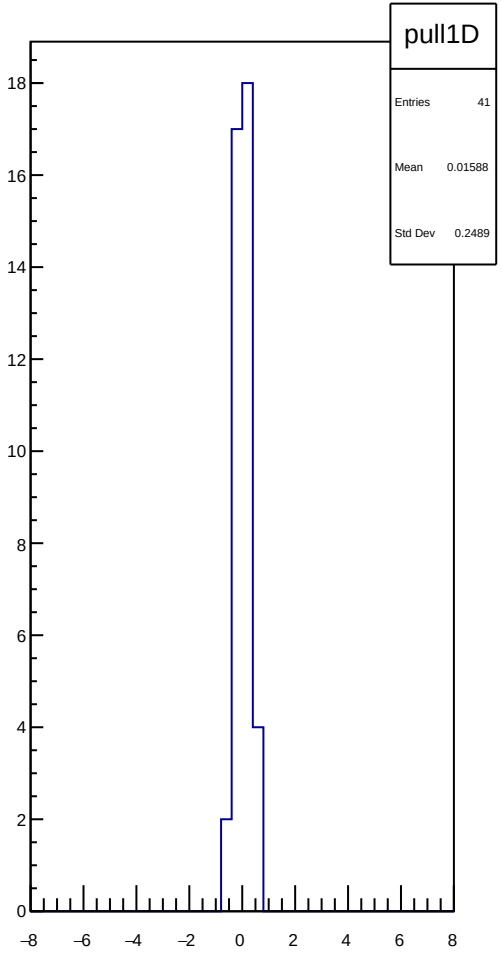

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.35 / 40
p0 −6.957 ± 1.356
pull
Entries 41
Mean −25.35
Std Dev 43.98

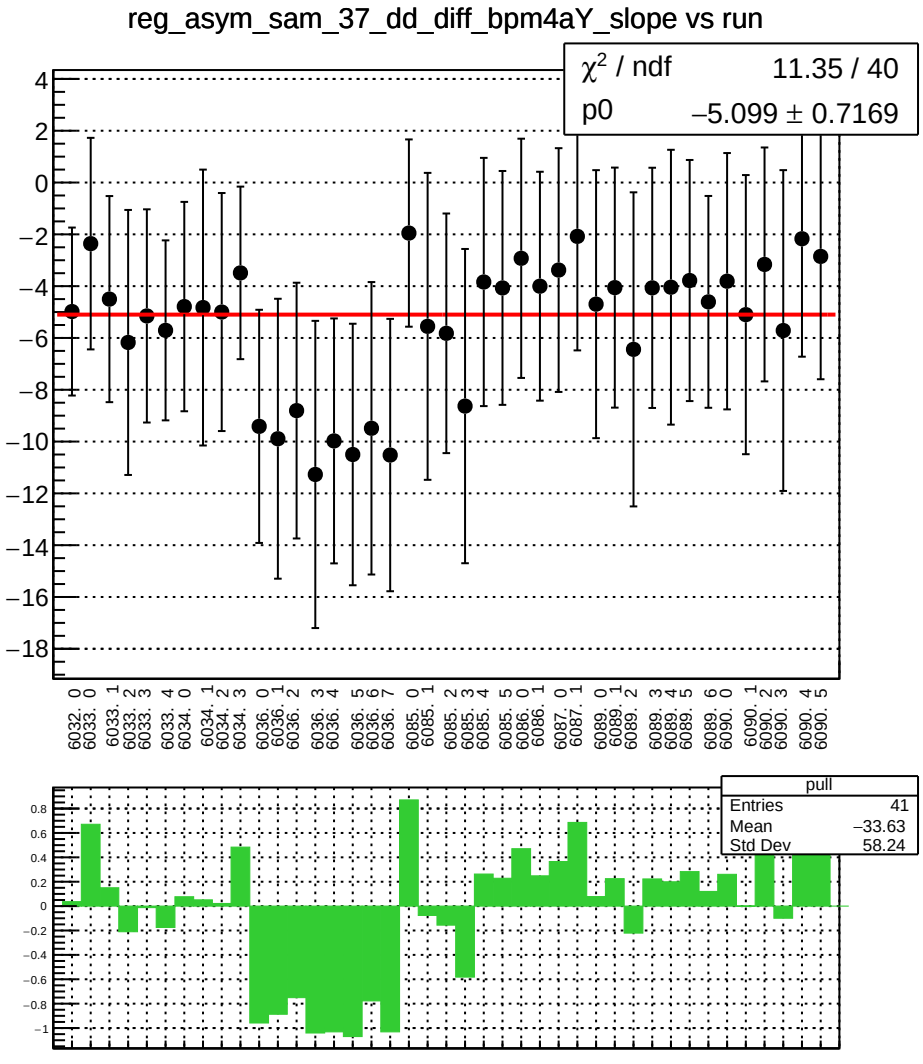

pull1D
Entries 41
Mean 0.07592
Std Dev 0.6461

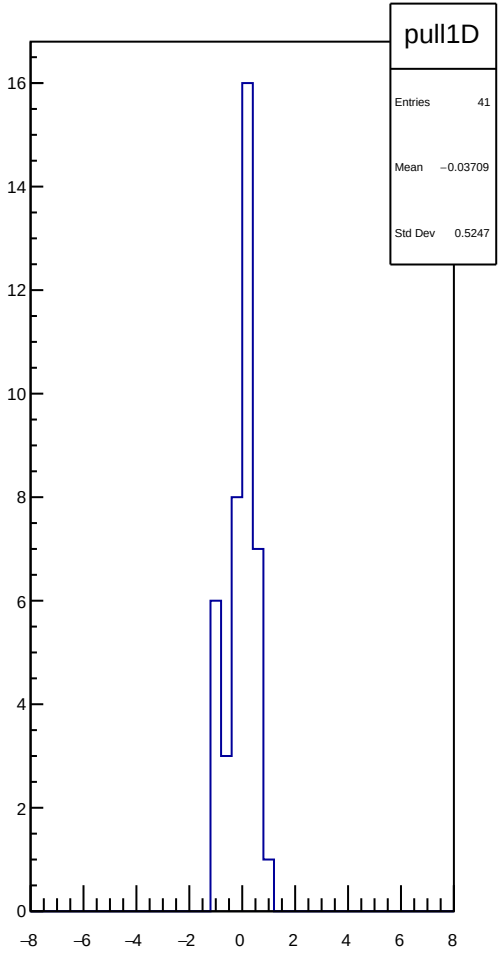

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.981 / 40
p0 −0.8257 ± 0.1039
pull
Entries 41
Mean 218.4
Std Dev 198.3

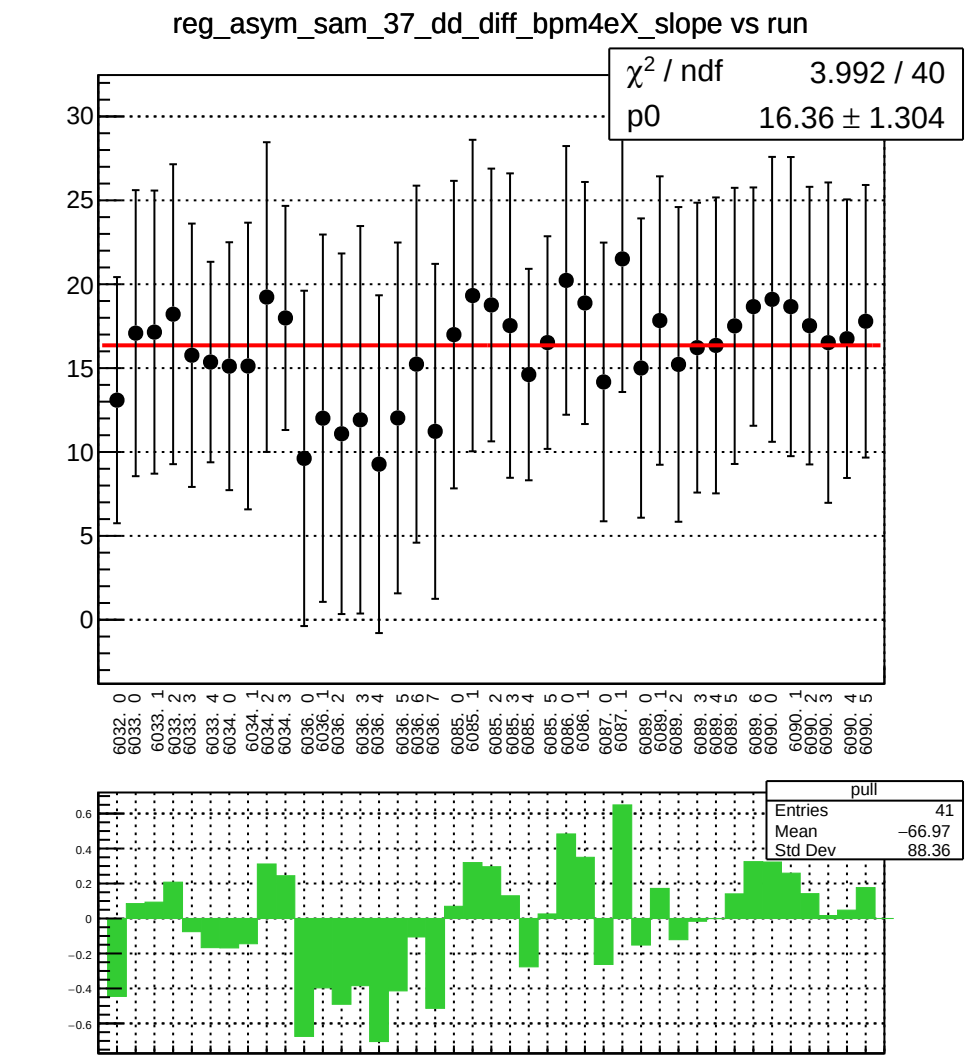

pull1D
Entries 41
Mean 0.003366
Std Dev 0.3116

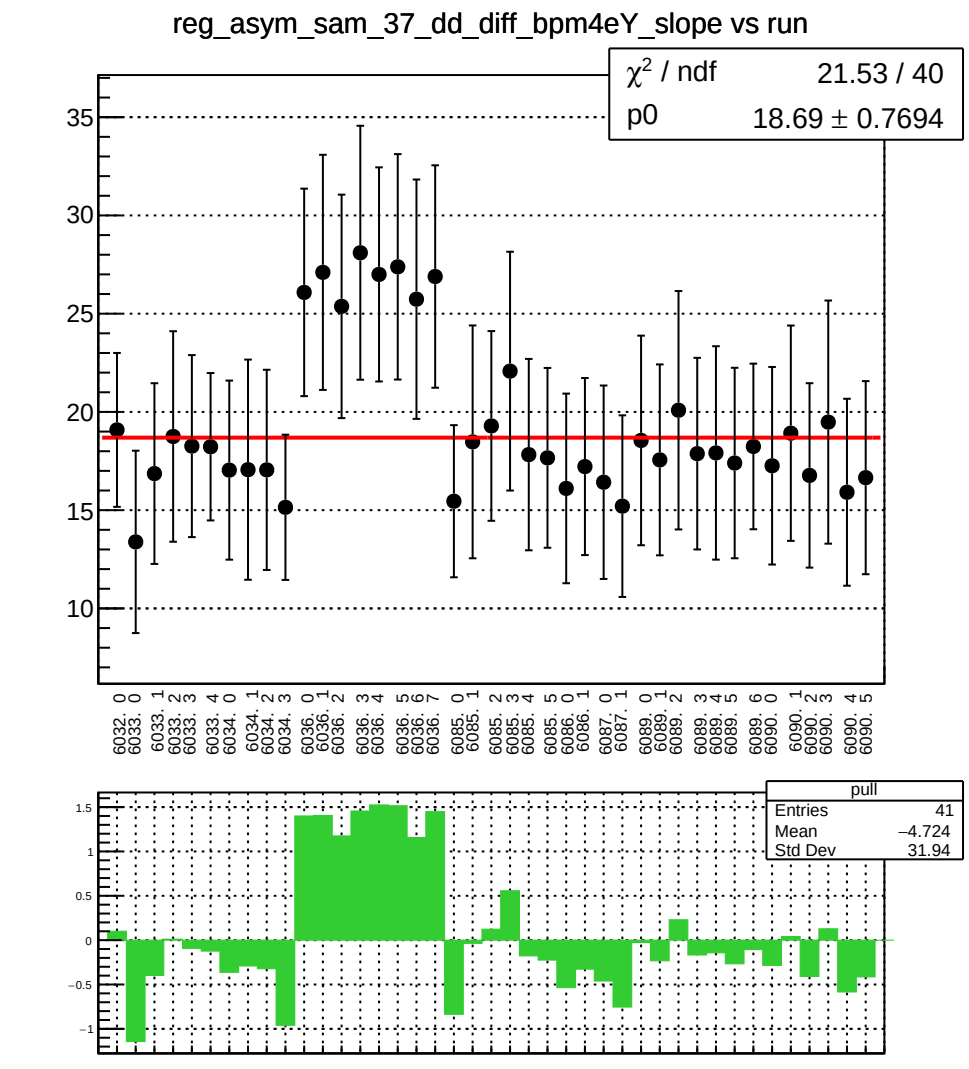

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.551 / 40
p0 −53.01 ± 1.161
pull
Entries 41
Mean −40.93
Std Dev 62.64

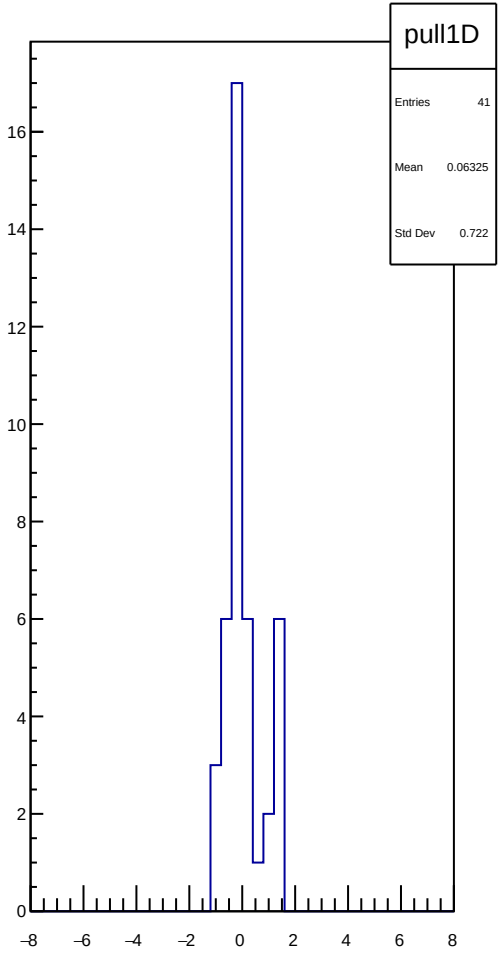

pull1D
Entries 41
Mean 0.01588
Std Dev 0.2489

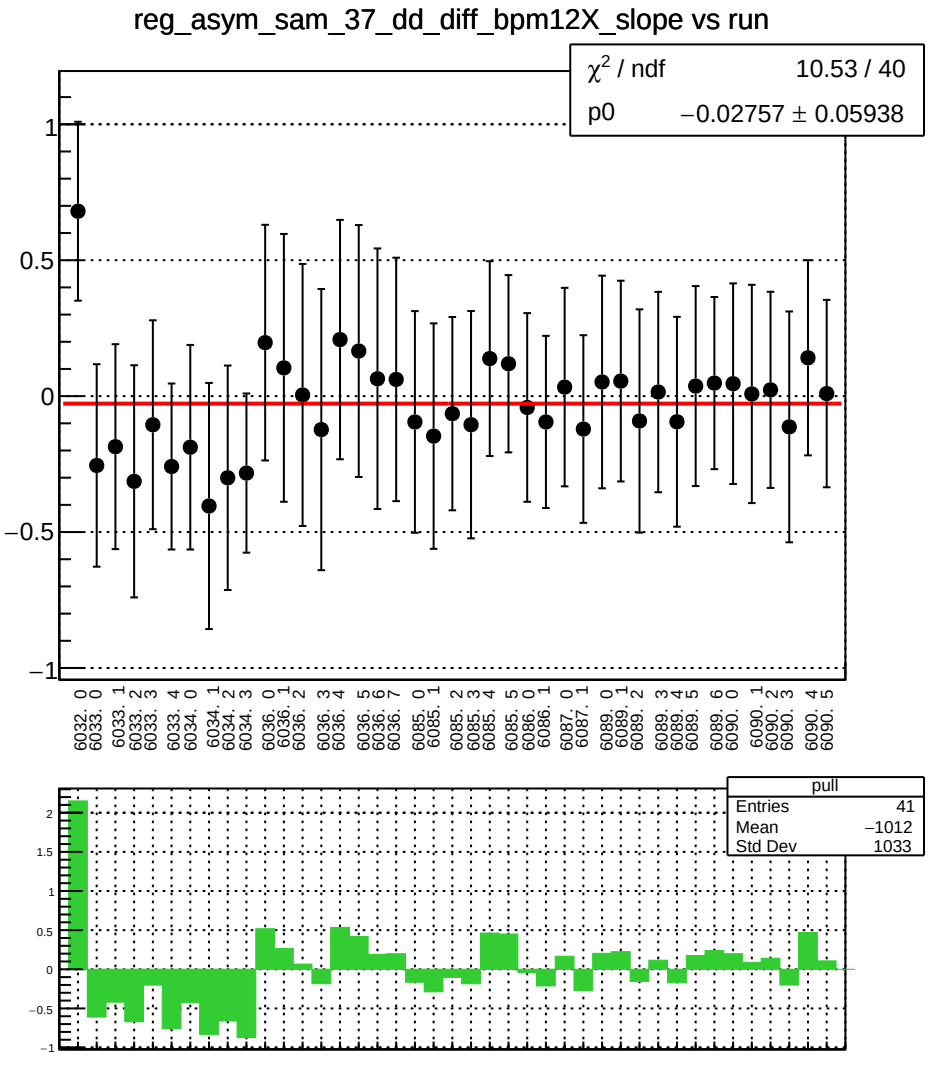

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.35 / 40
p0 −5.099 ± 0.7169
pull
Entries 41
Mean −33.63
Std Dev 58.24

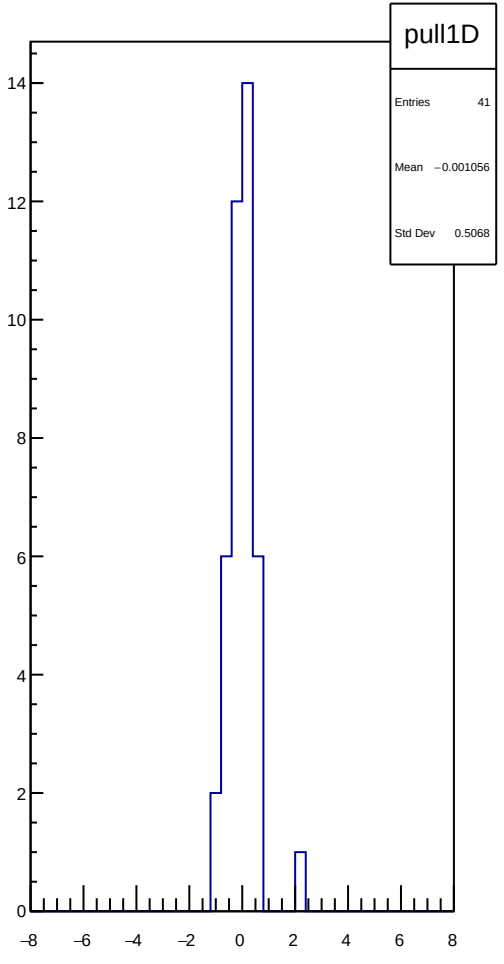

pull1D
Entries 41
Mean −0.03709
Std Dev 0.5247

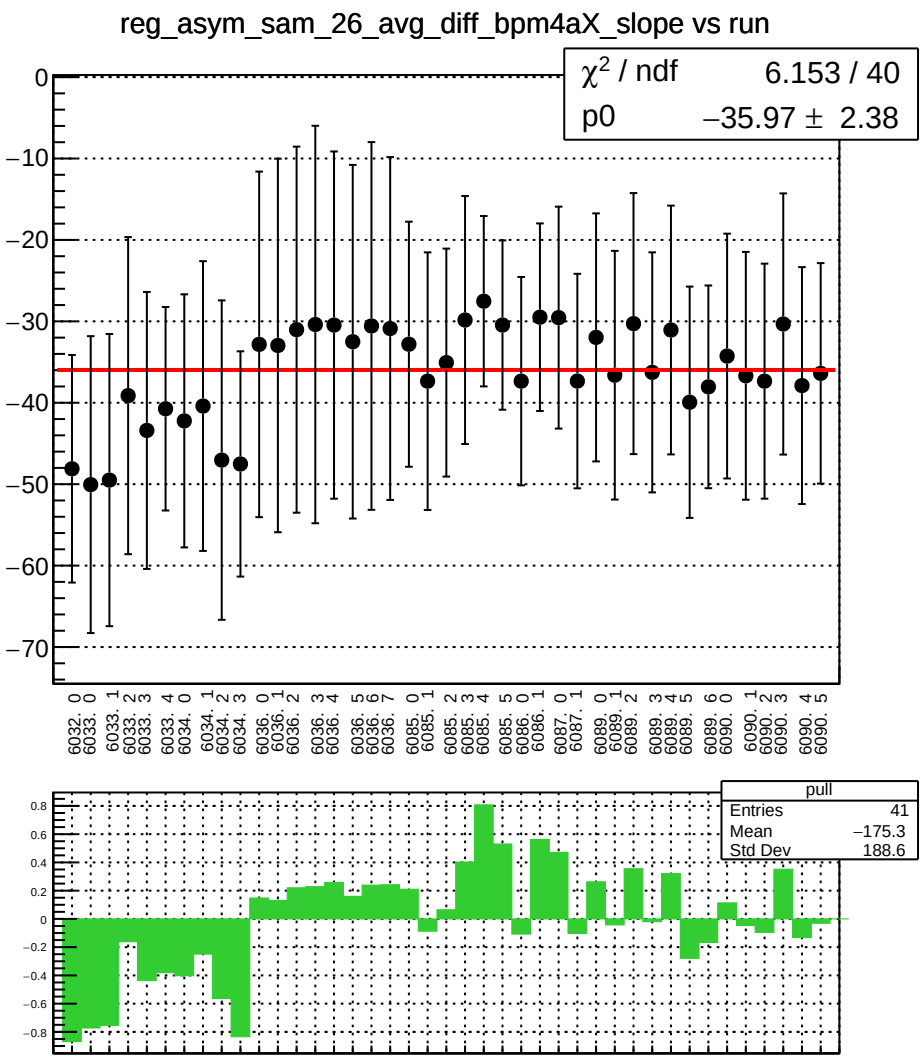

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.992 / 40
p0 16.36 ± 1.304
pull
Entries 41
Mean −66.97
Std Dev 88.36
pull1D
Entries 41
Mean −0.01564
Std Dev 0.3116

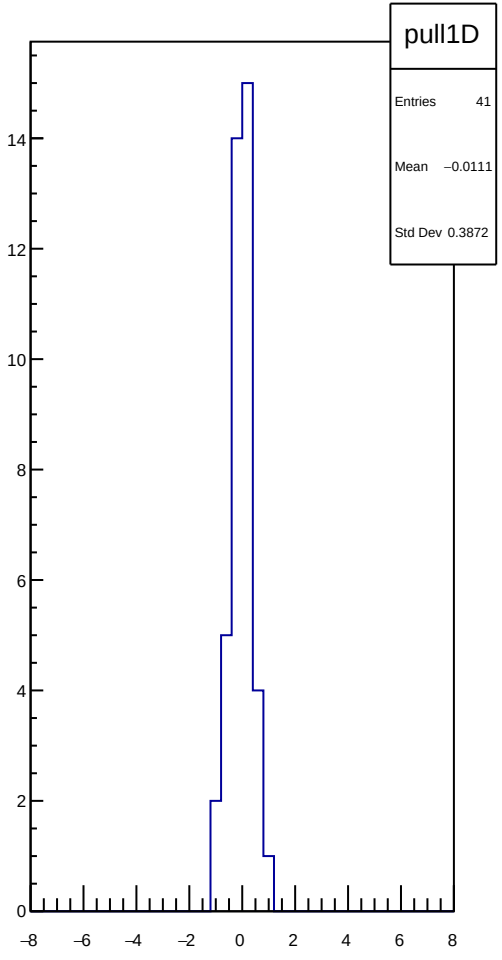

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.53 / 40
p0 18.69 ± 0.7694
pull
Entries 41
Mean −4.724
Std Dev 31.94

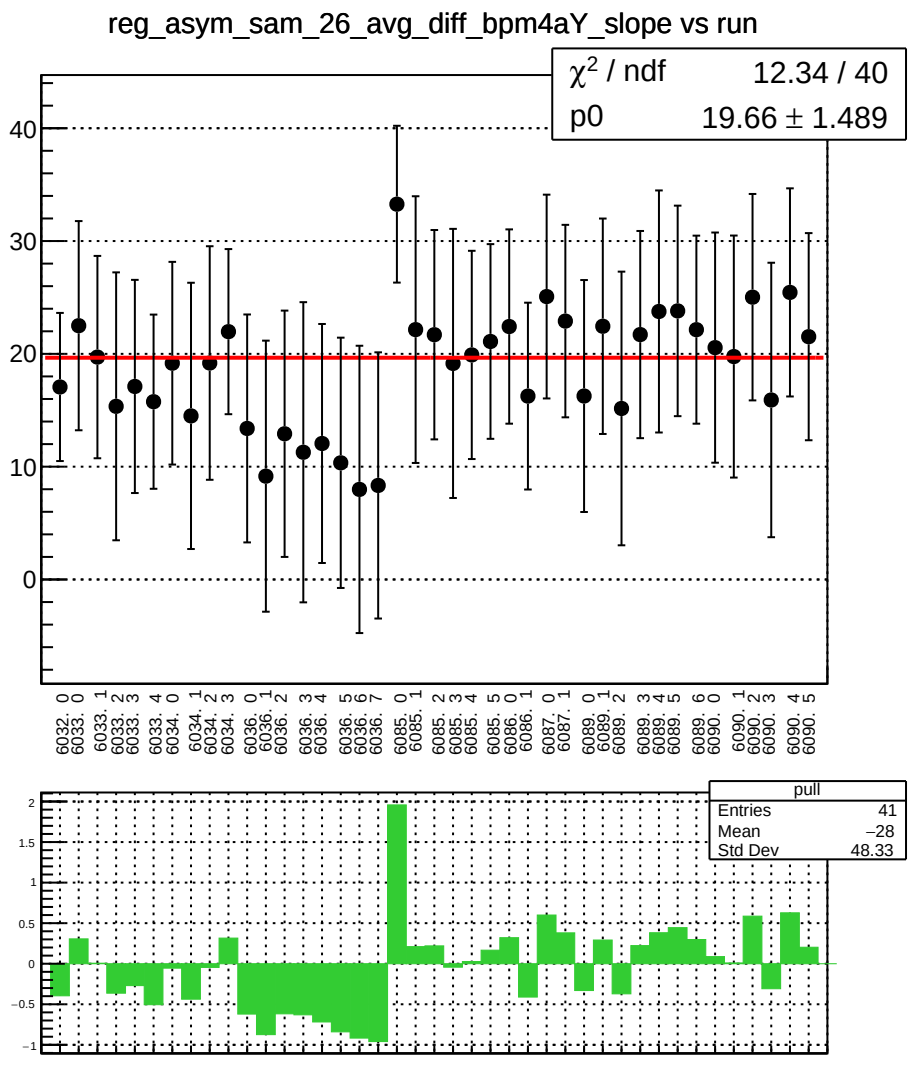

pull1D
Entries 41
Mean 0.06325
Std Dev 0.722

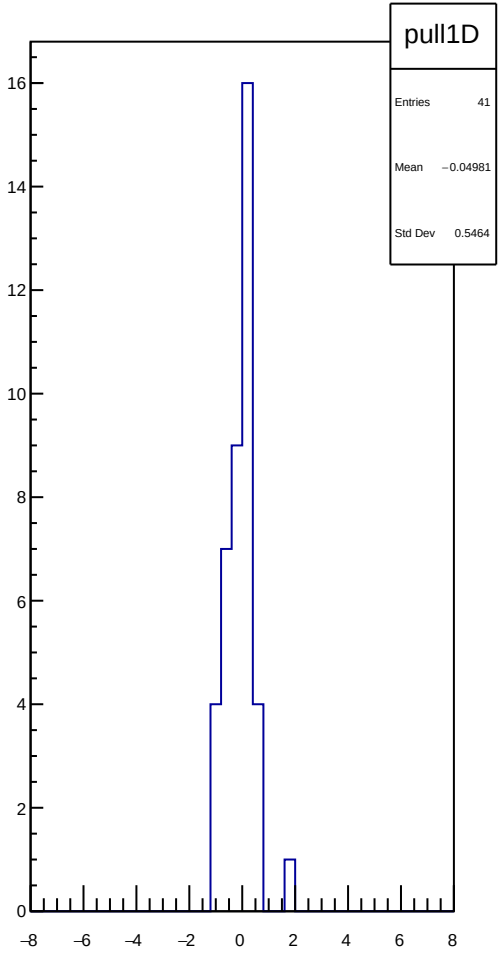

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.53 / 40
p0 −0.02757 ± 0.05938
pull
Entries 41
Mean −1012
Std Dev 1033

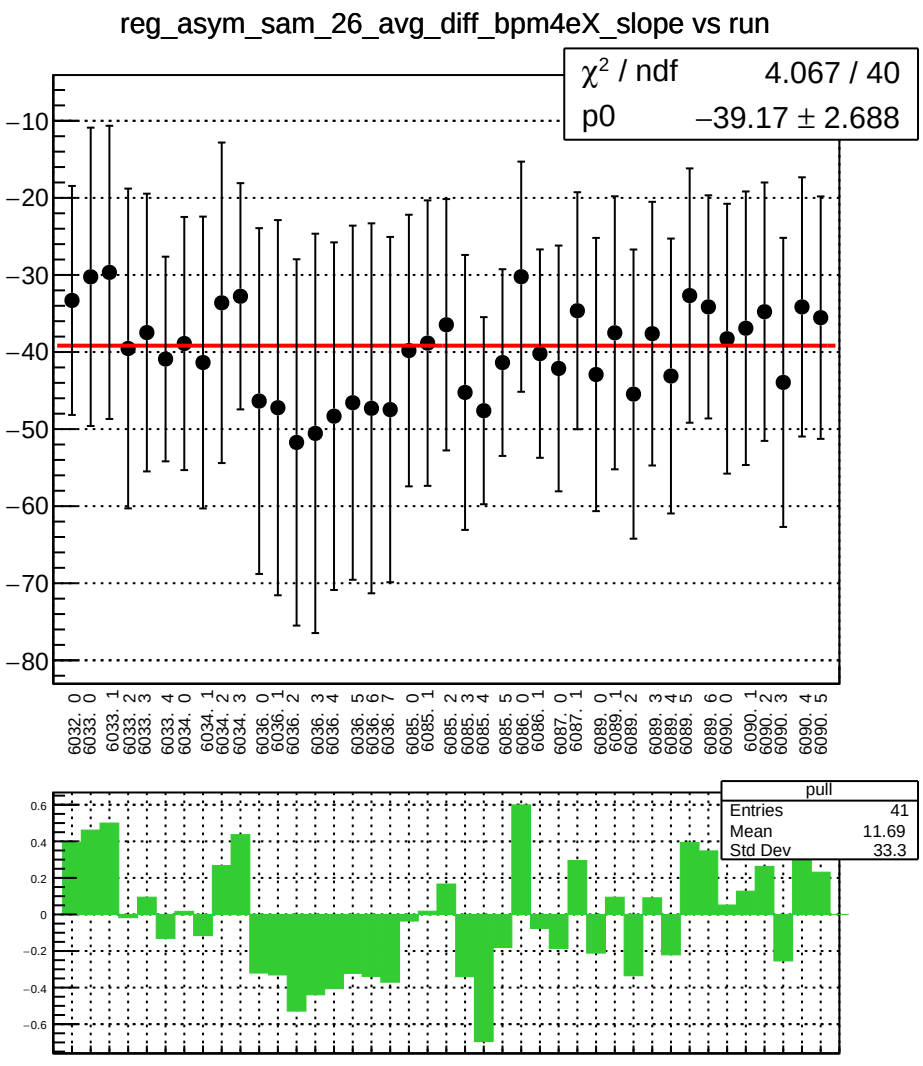

pull1D
Entries 41
Mean −0.001056
Std Dev 0.5068

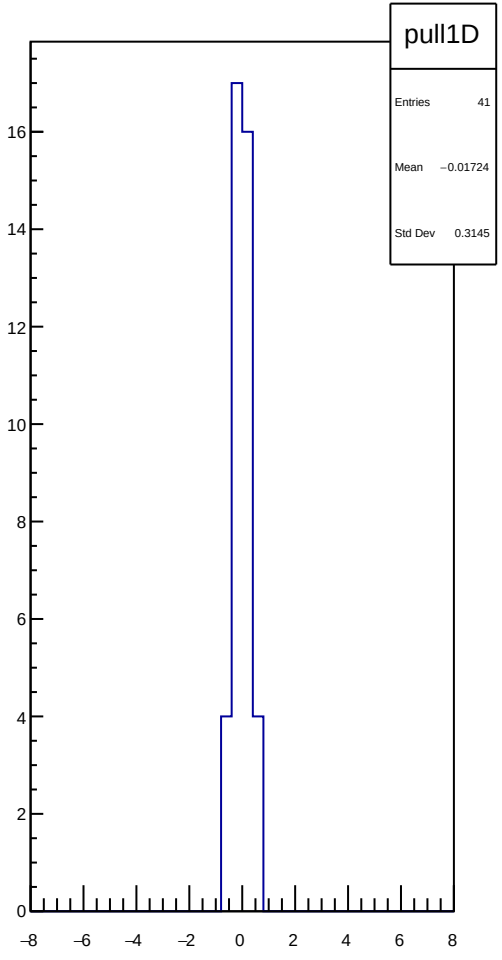

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.153 / 40
p0 −35.97 ± 2.38
pull
Entries 41
Mean −175.3
Std Dev 188.6

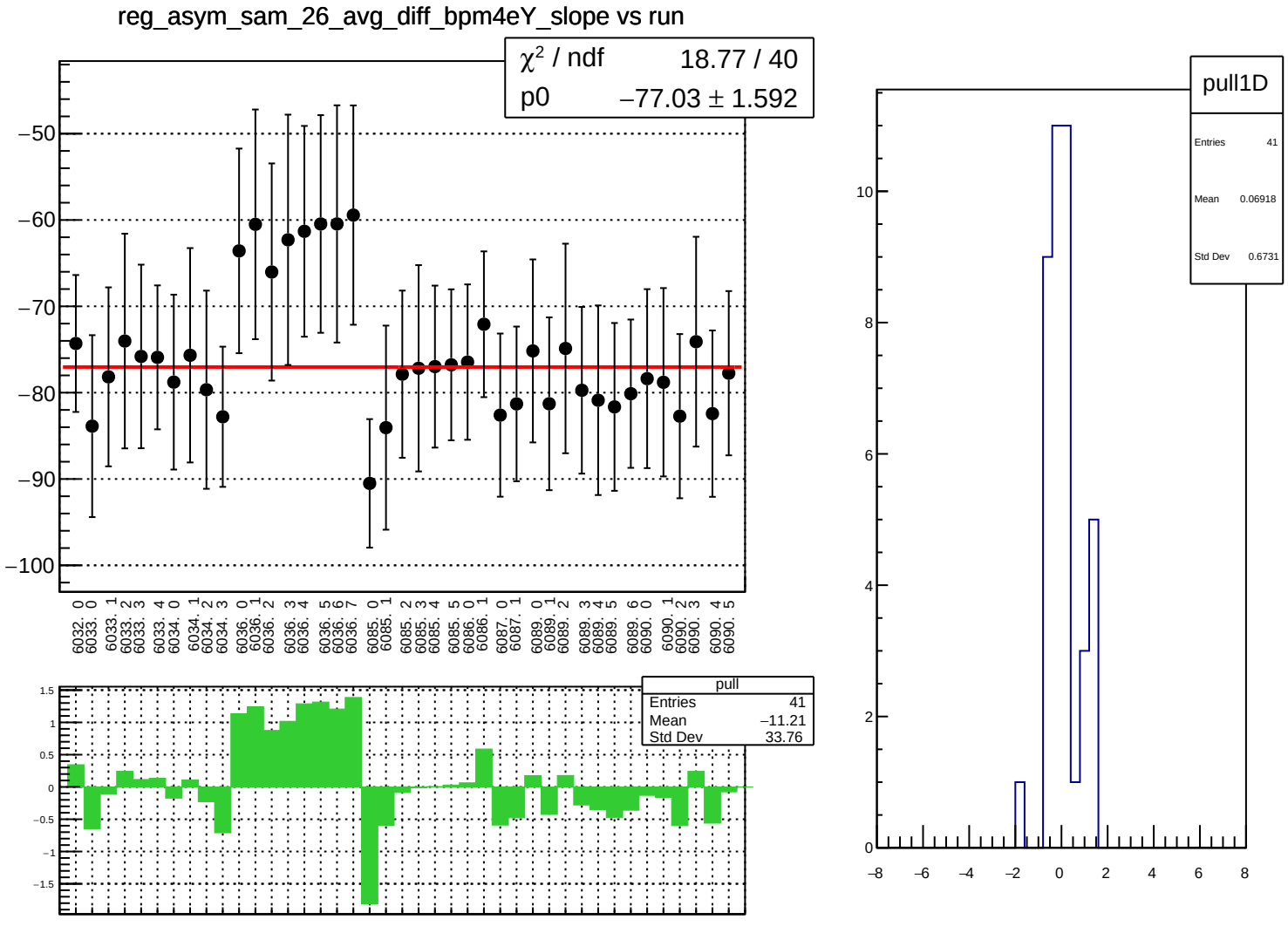

pull1D
Entries 41
Mean −0.0111
Std Dev 0.3872

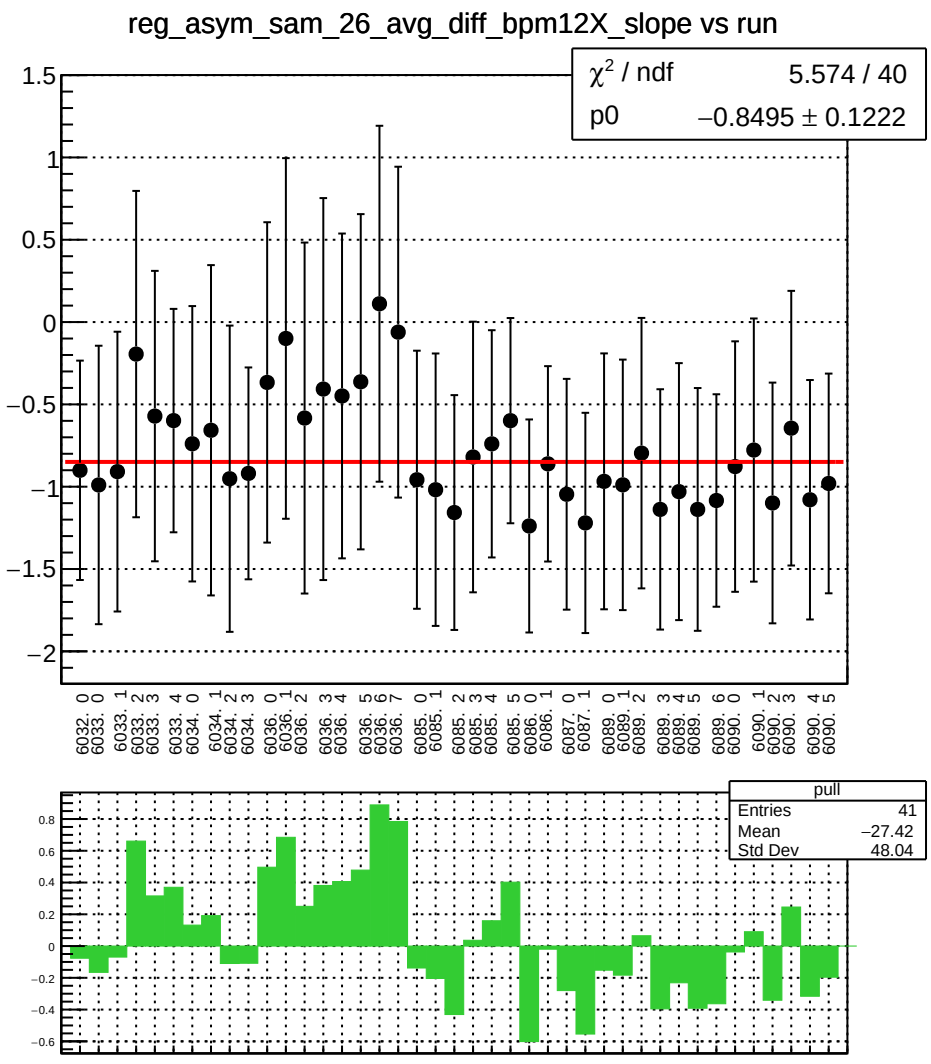

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.34 / 40
p0 19.66 ± 1.489
pull
Entries 41
Mean −28
Std Dev 48.33

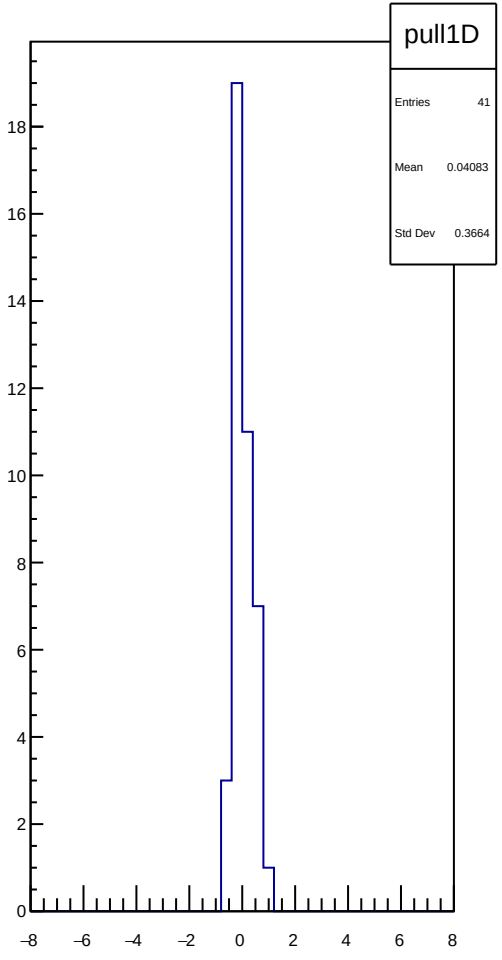

pull1D
Entries 41
Mean −0.04981
Std Dev 0.5464

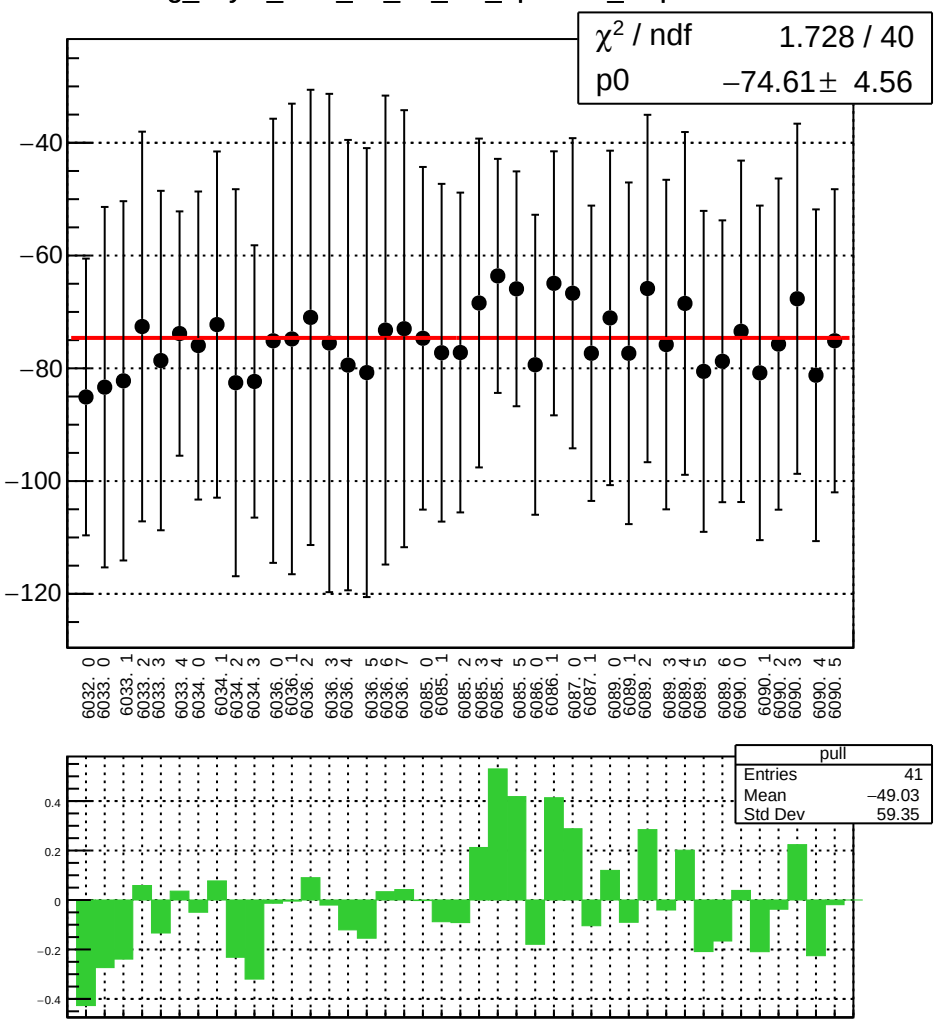

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.067 / 40
p0 −39.17 ± 2.688
pull
Entries 41
Mean 11.69
Std Dev 33.3

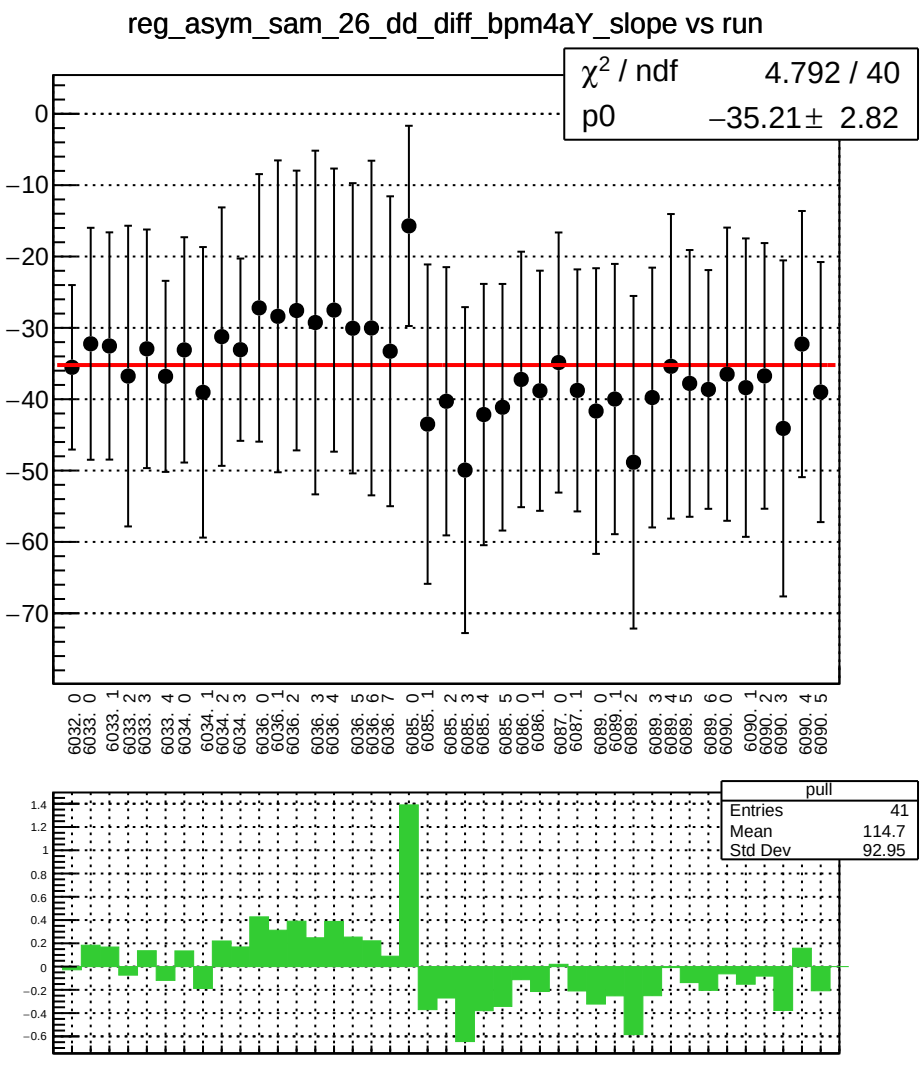

pull1D
Entries 41
Mean −0.01724
Std Dev 0.3145

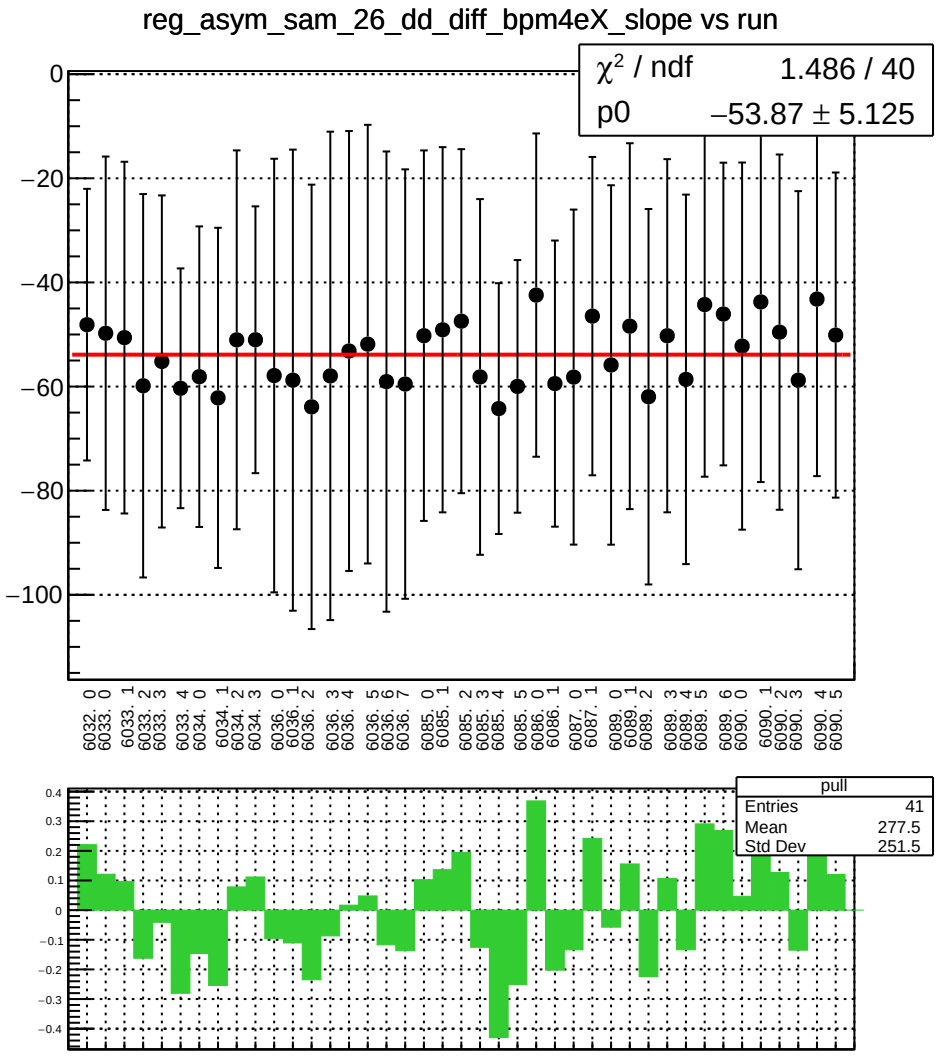

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.77 / 40
p0 −77.03 ± 1.592
−50
−60
−70
−80
−90
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −11.21
Std Dev 33.76
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.06918
Std Dev 0.6731
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

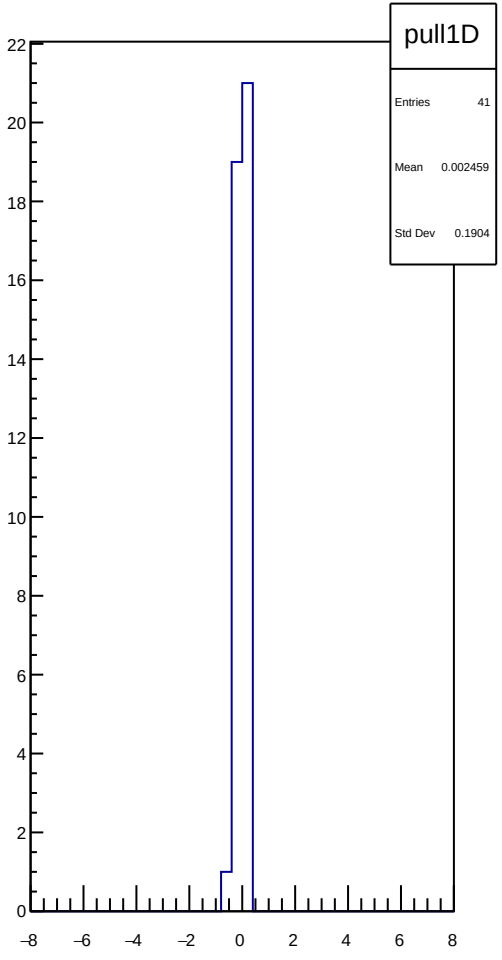

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 5.574 / 40
p0 −0.8495 ± 0.1222
pull
Entries 41
Mean −27.42
Std Dev 48.04

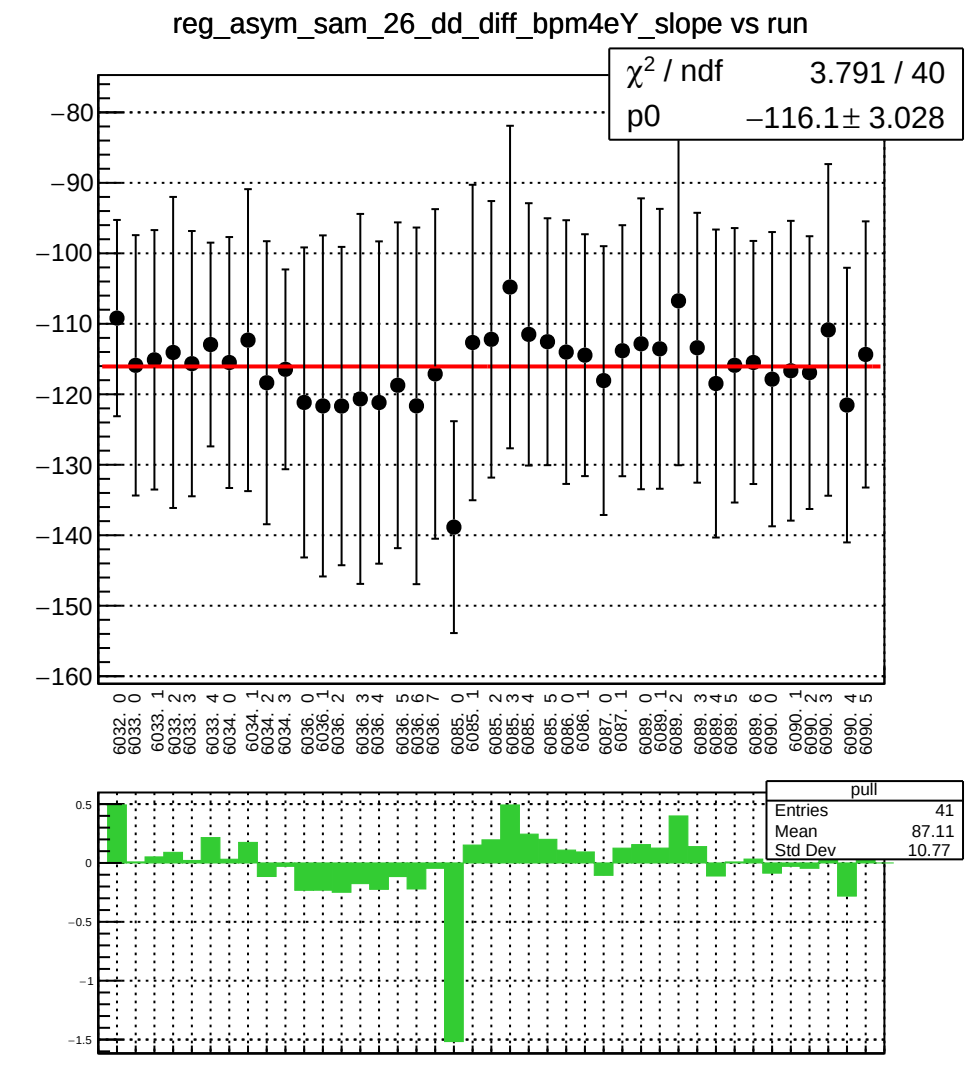

pull1D
Entries 41
Mean 0.04083
Std Dev 0.3664

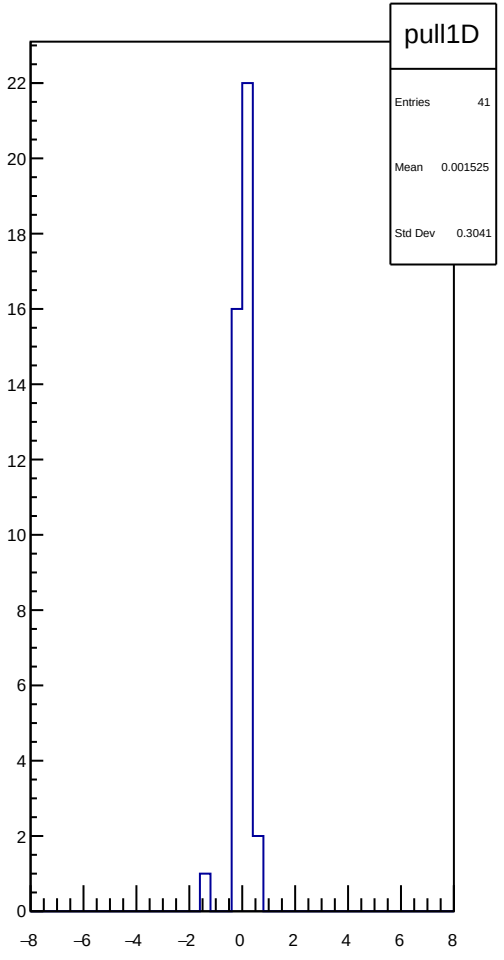

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.728 / 40
p0 −74.61± 4.56
−40
−60
−80
−100
−120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −49.03
Std Dev 59.35
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean −0.009234
Std Dev 0.2051
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

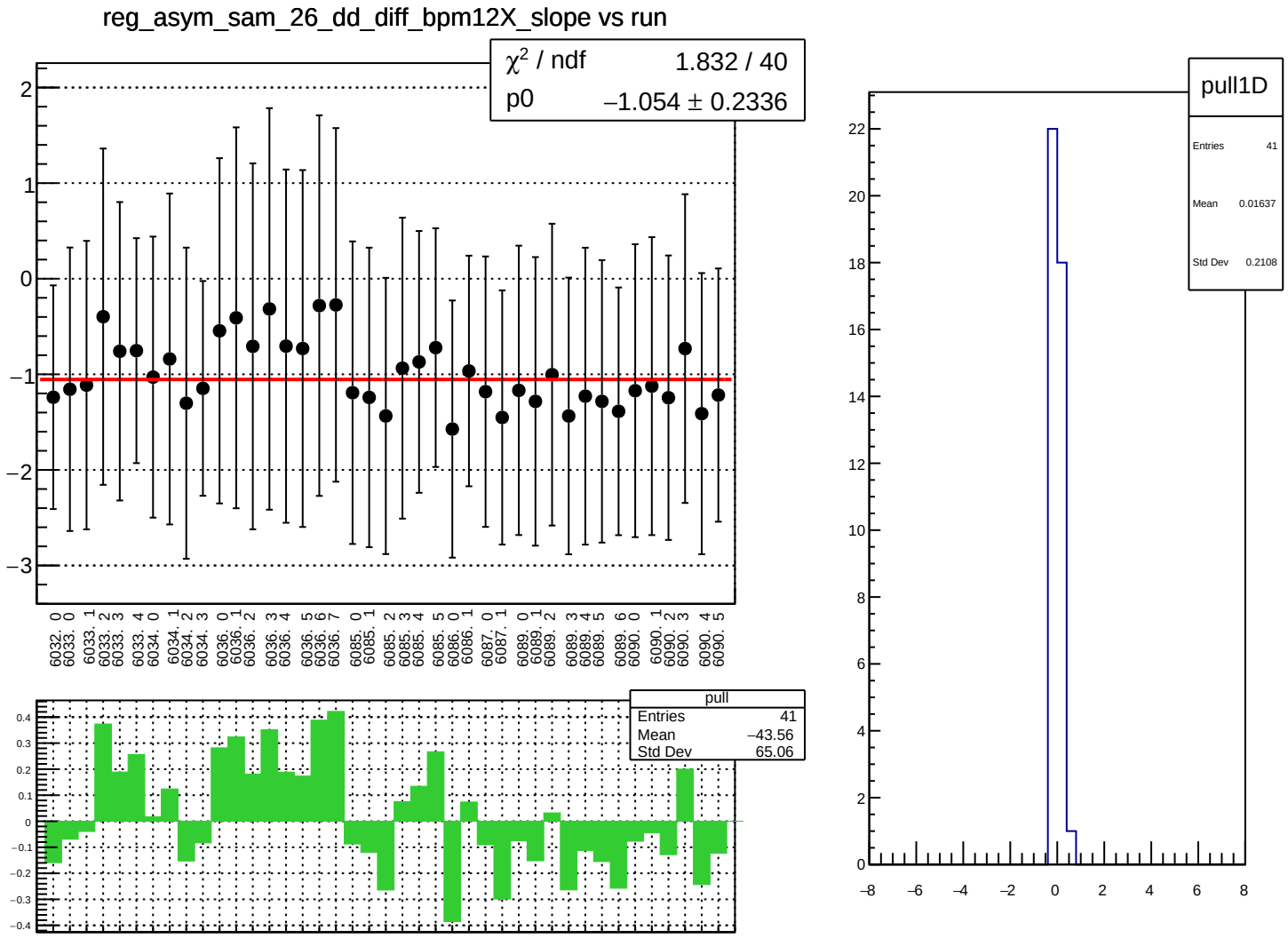

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.792 / 40
p0 −35.21 ± 2.82
0
−10
−20
−30
−40
−50
−60
−70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 114.7
Std Dev 92.95
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.01665
Std Dev 0.3415
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

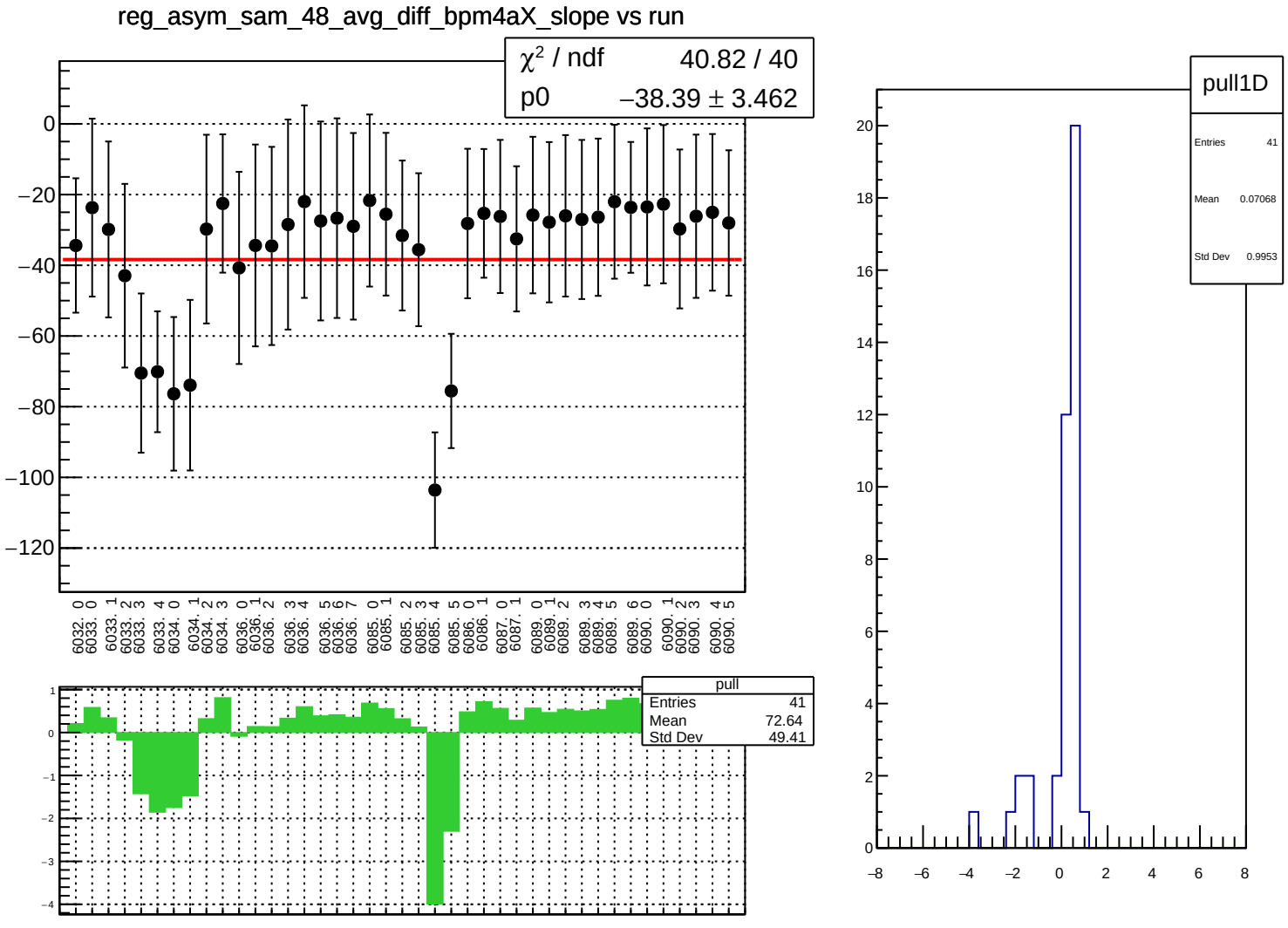

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.486 / 40
p0 −53.87 ± 5.125
pull
Entries 41
Mean 277.5
Std Dev 251.5

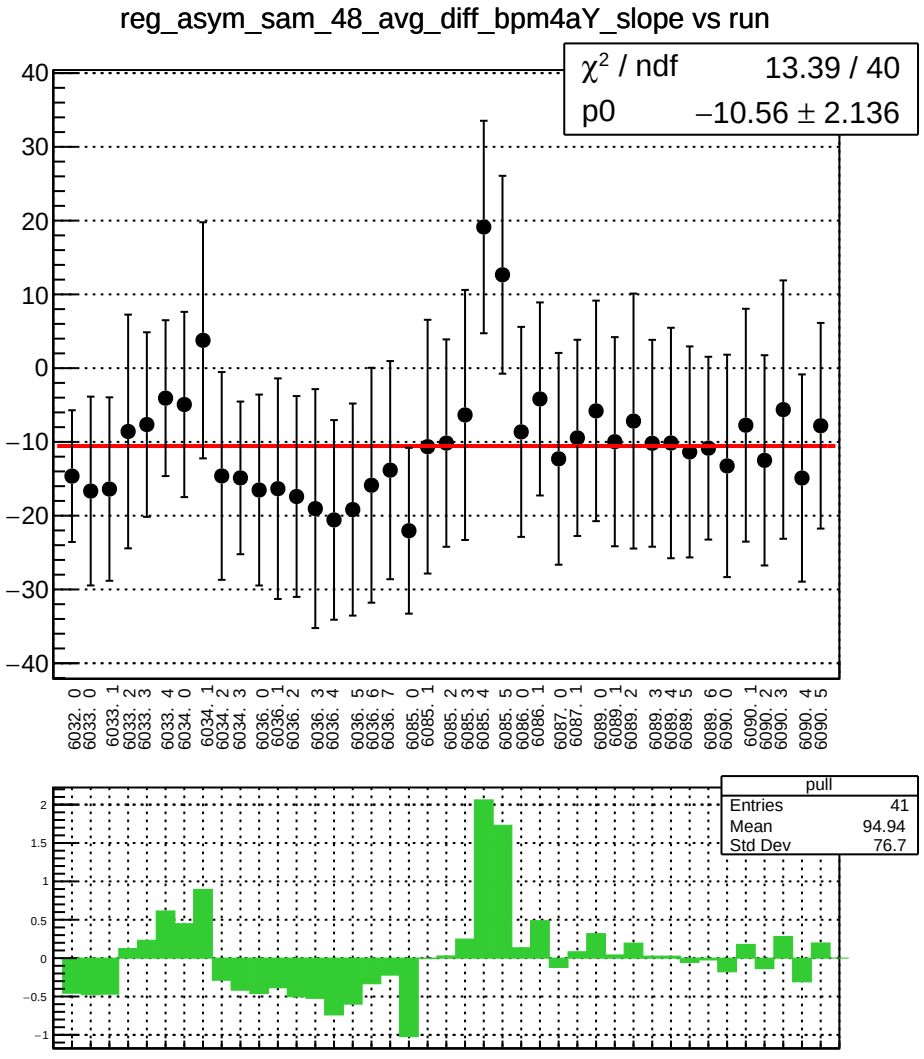

pull1D
Entries 41
Mean 0.002459
Std Dev 0.1904

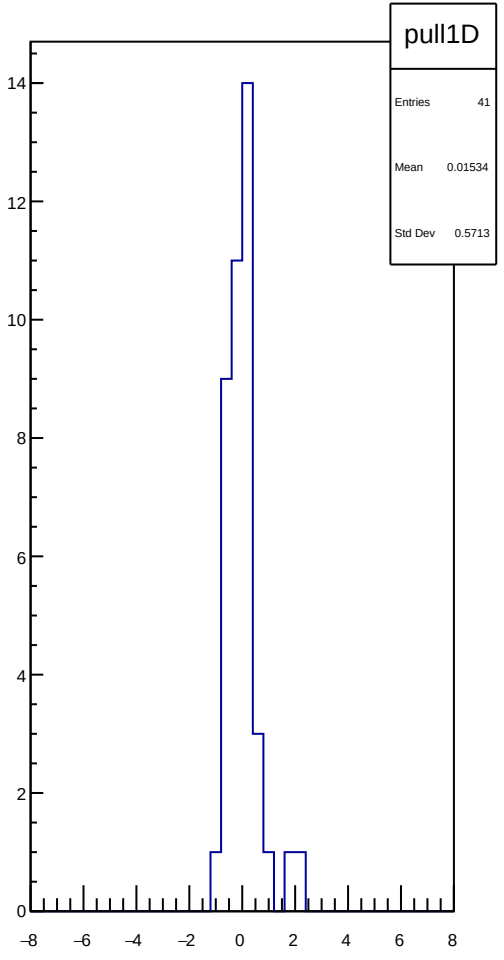

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.791 / 40
p0 −116.1± 3.028
pull
Entries 41
Mean 87.11
Std Dev 10.77

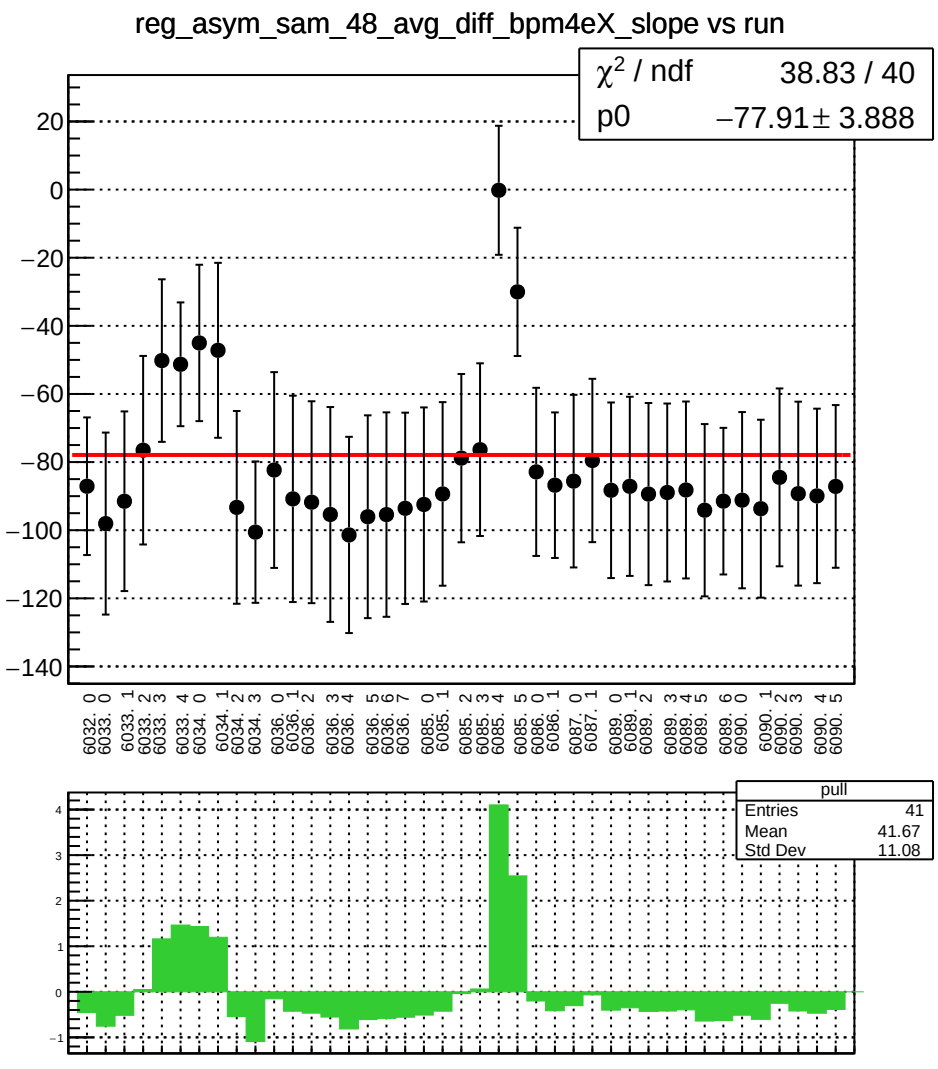

pull1D
Entries 41
Mean 0.001525
Std Dev 0.3041

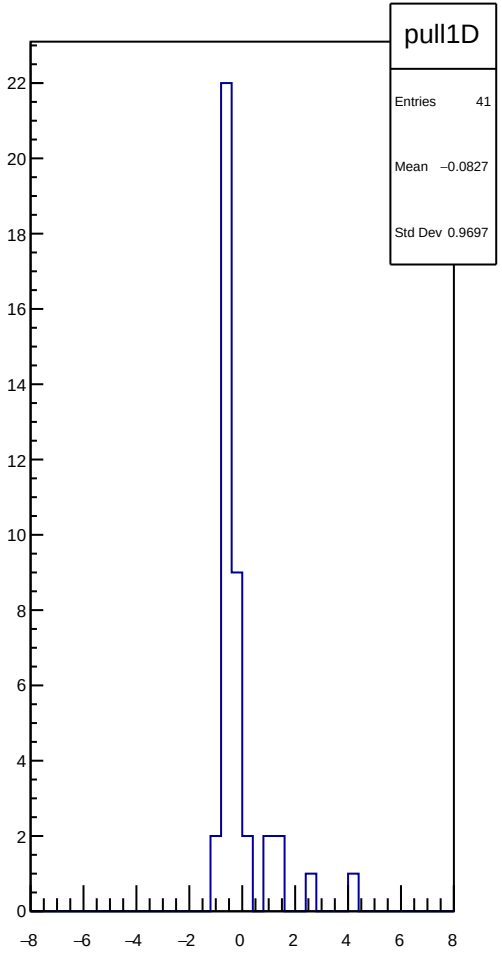

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.832 / 40
p0 −1.054 ± 0.2336
pull
Entries 41
Mean −43.56
Std Dev 65.06
pull1D
Entries 41
Mean 0.01637
Std Dev 0.2108

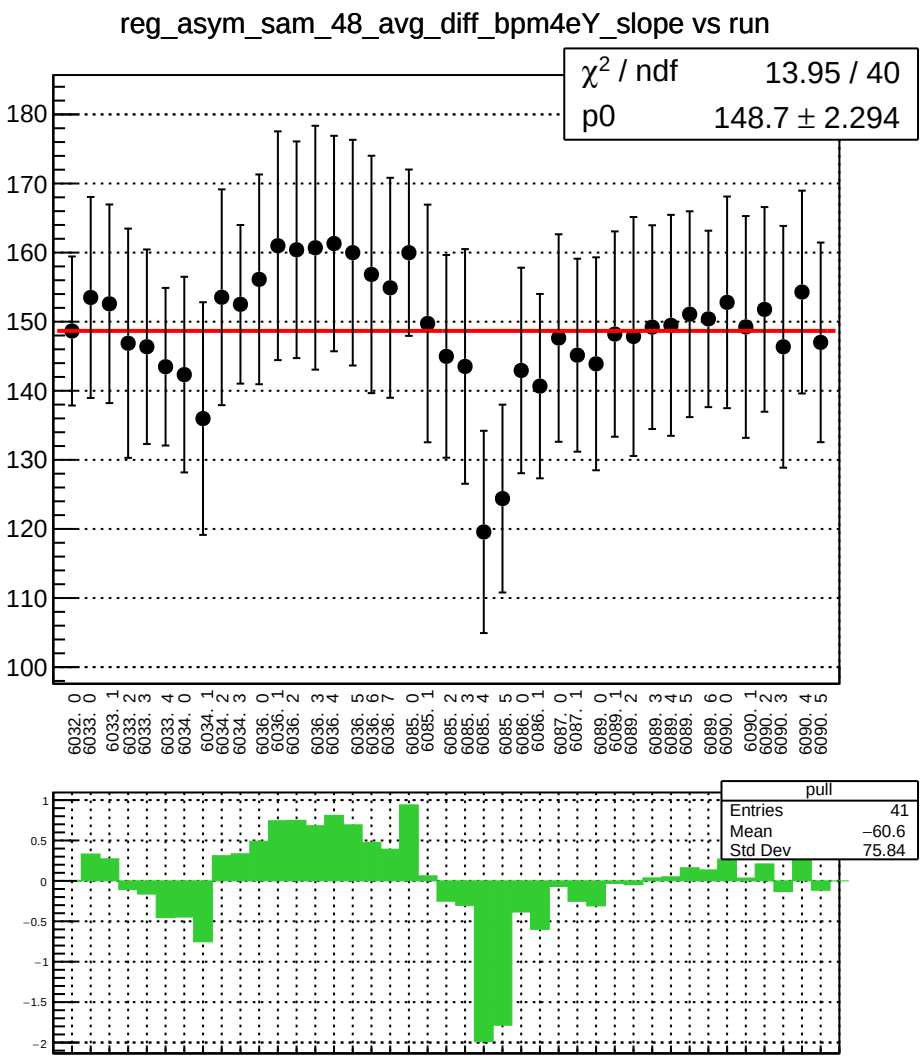

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.82 / 40
p0 −38.39 ± 3.462
pull
Entries 41
Mean 72.64
Std Dev 49.41
pull1D
Entries 41
Mean 0.07068
Std Dev 0.9953

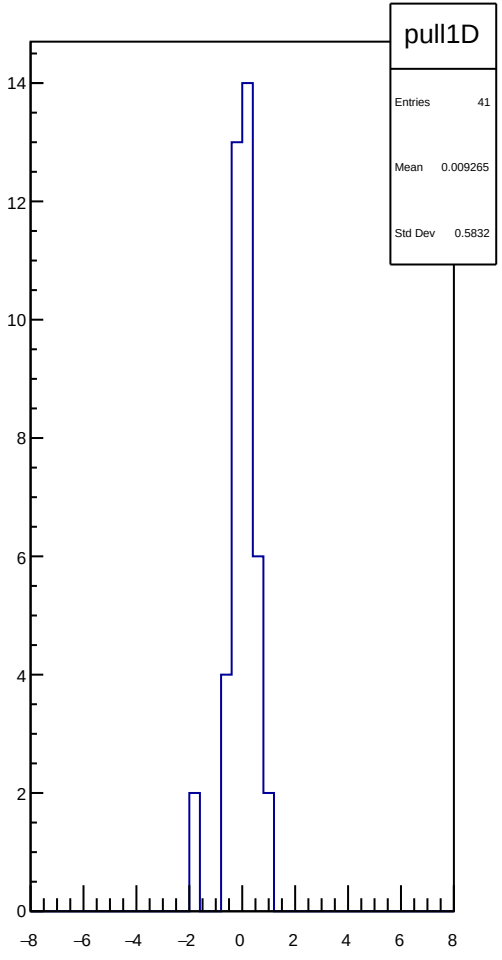

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.39 / 40
p0 −10.56 ± 2.136
pull
Entries 41
Mean 94.94
Std Dev 76.7

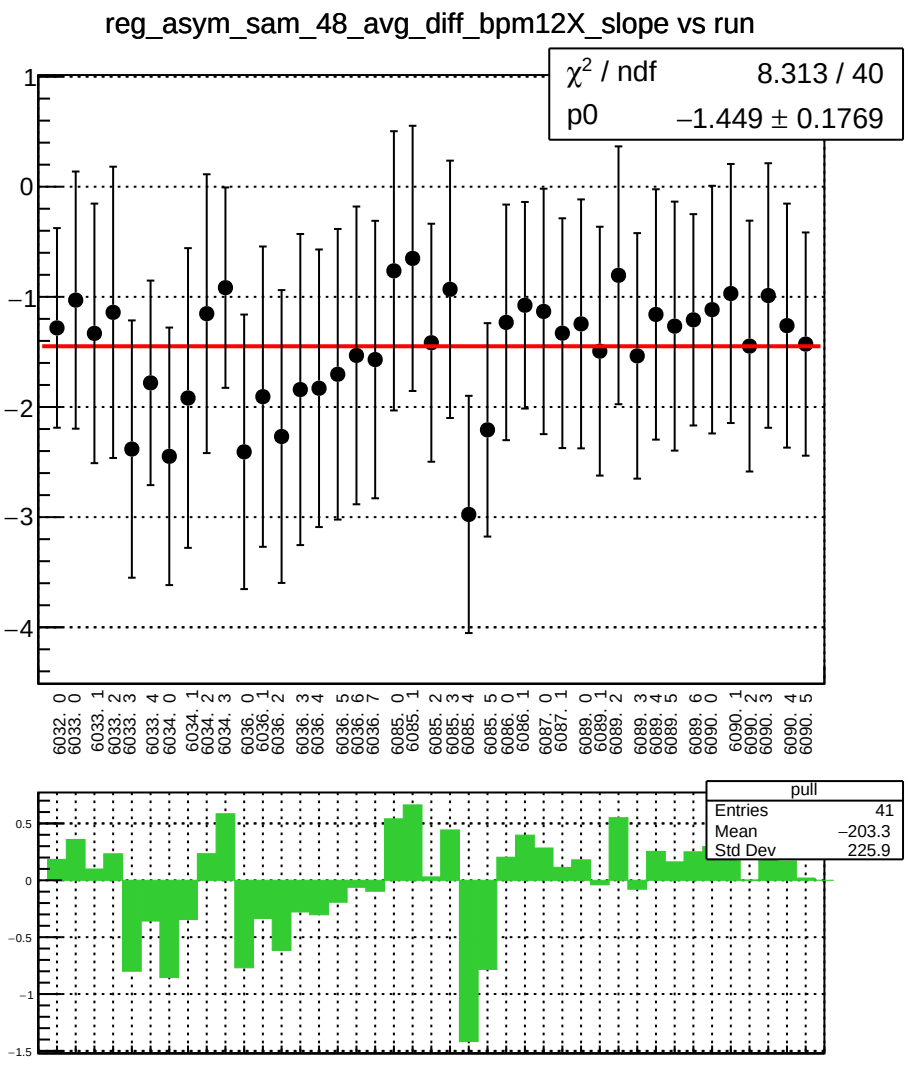

pull1D
Entries 41
Mean 0.01534
Std Dev 0.5713

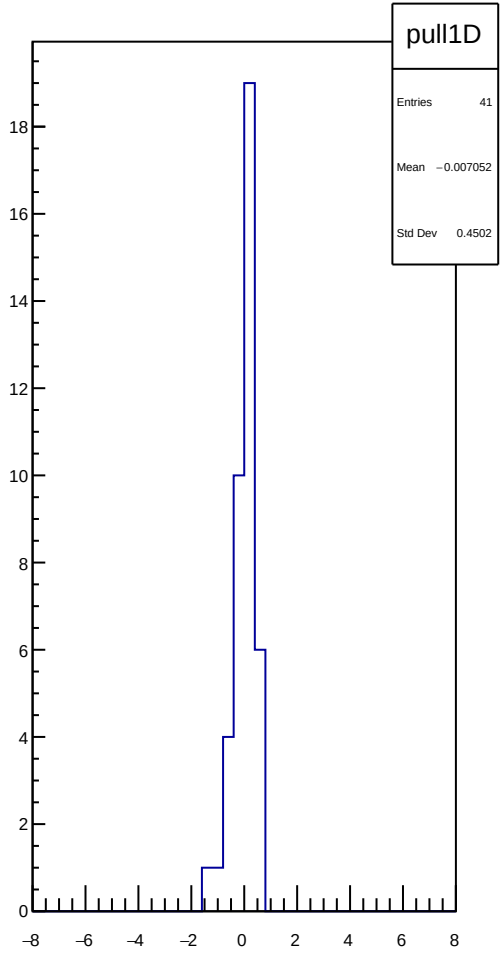

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.83 / 40
p0 −77.91 ± 3.888
pull
Entries 41
Mean 41.67
Std Dev 11.08

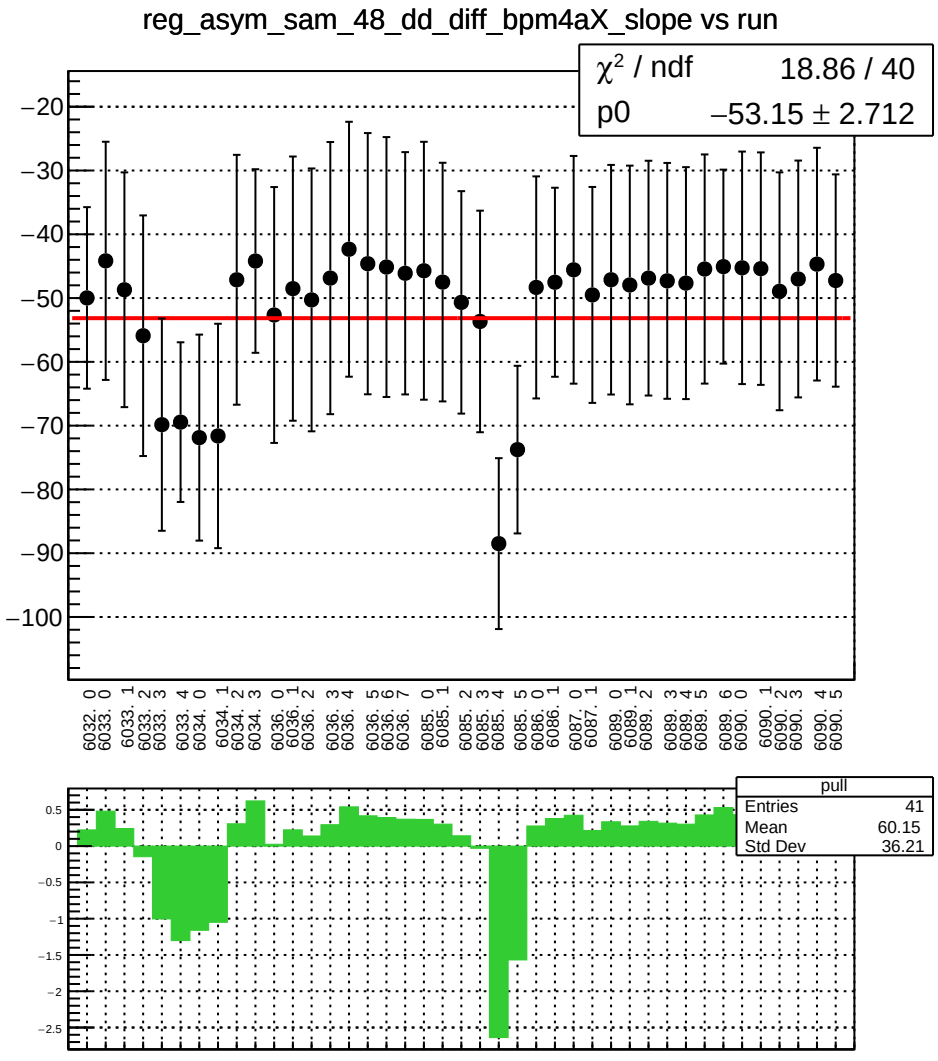

pull1D
Entries 41
Mean −0.0827
Std Dev 0.9697

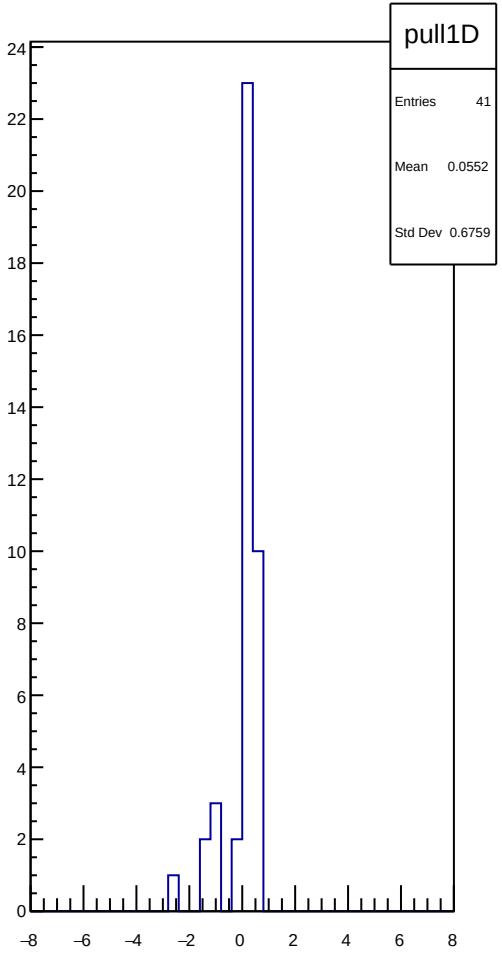

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.95 / 40
p0 148.7 ± 2.294
pull
Entries 41
Mean −60.6
Std Dev 75.84

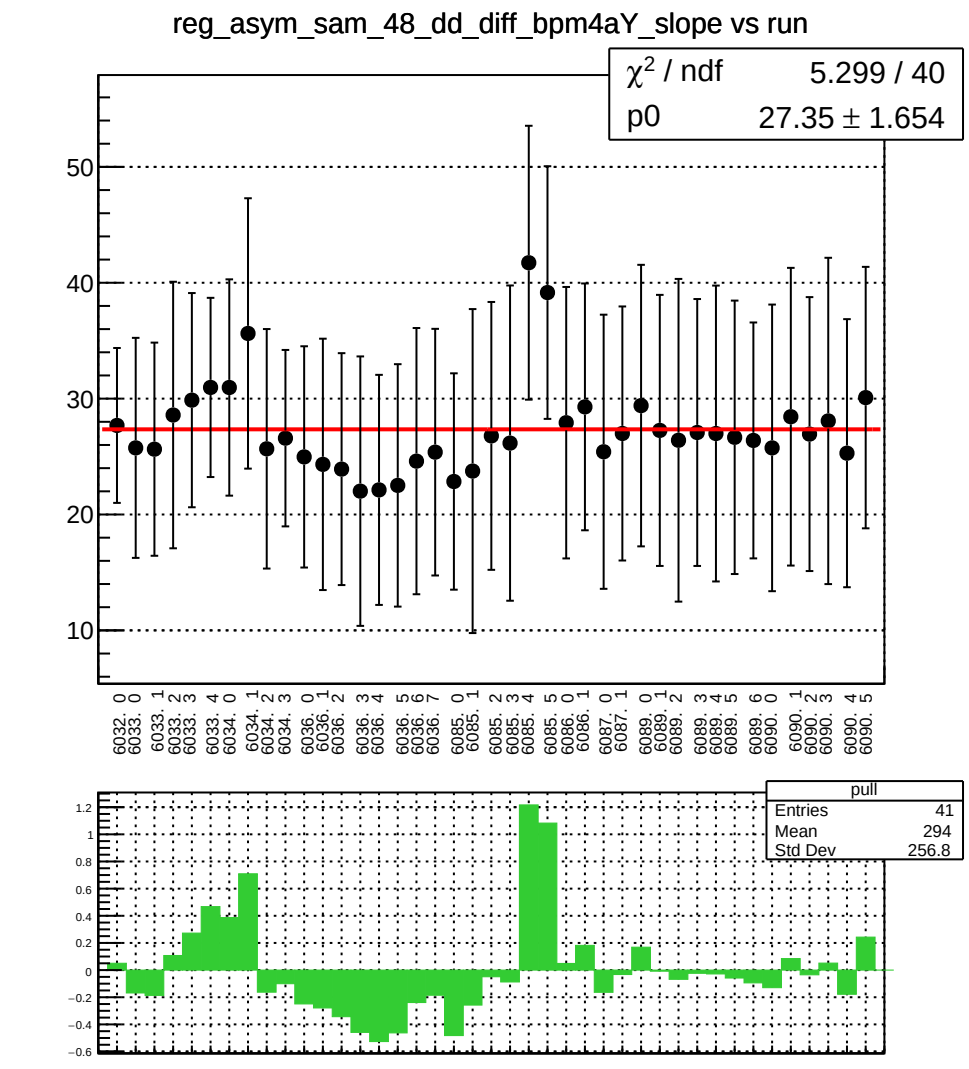

pull1D
Entries 41
Mean 0.009265
Std Dev 0.5832

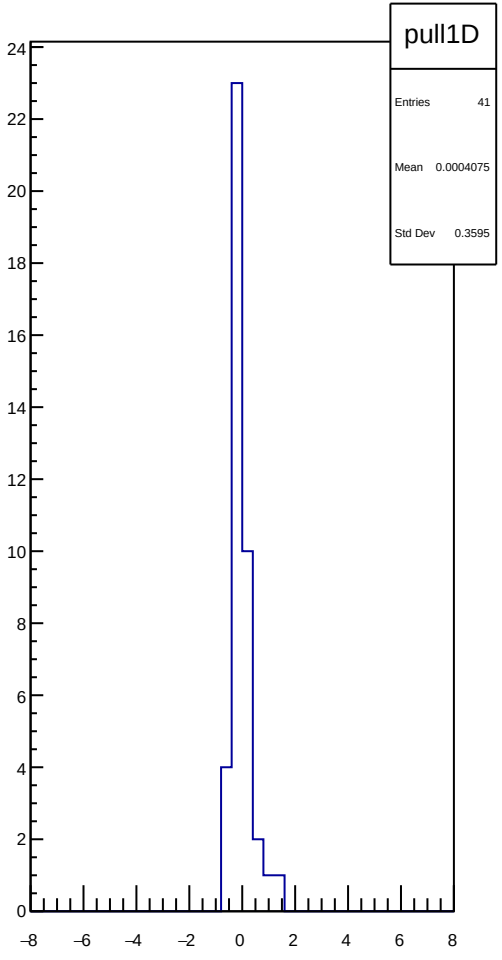

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 8.313 / 40
p0 −1.449 ± 0.1769
pull
Entries 41
Mean −203.3
Std Dev 225.9

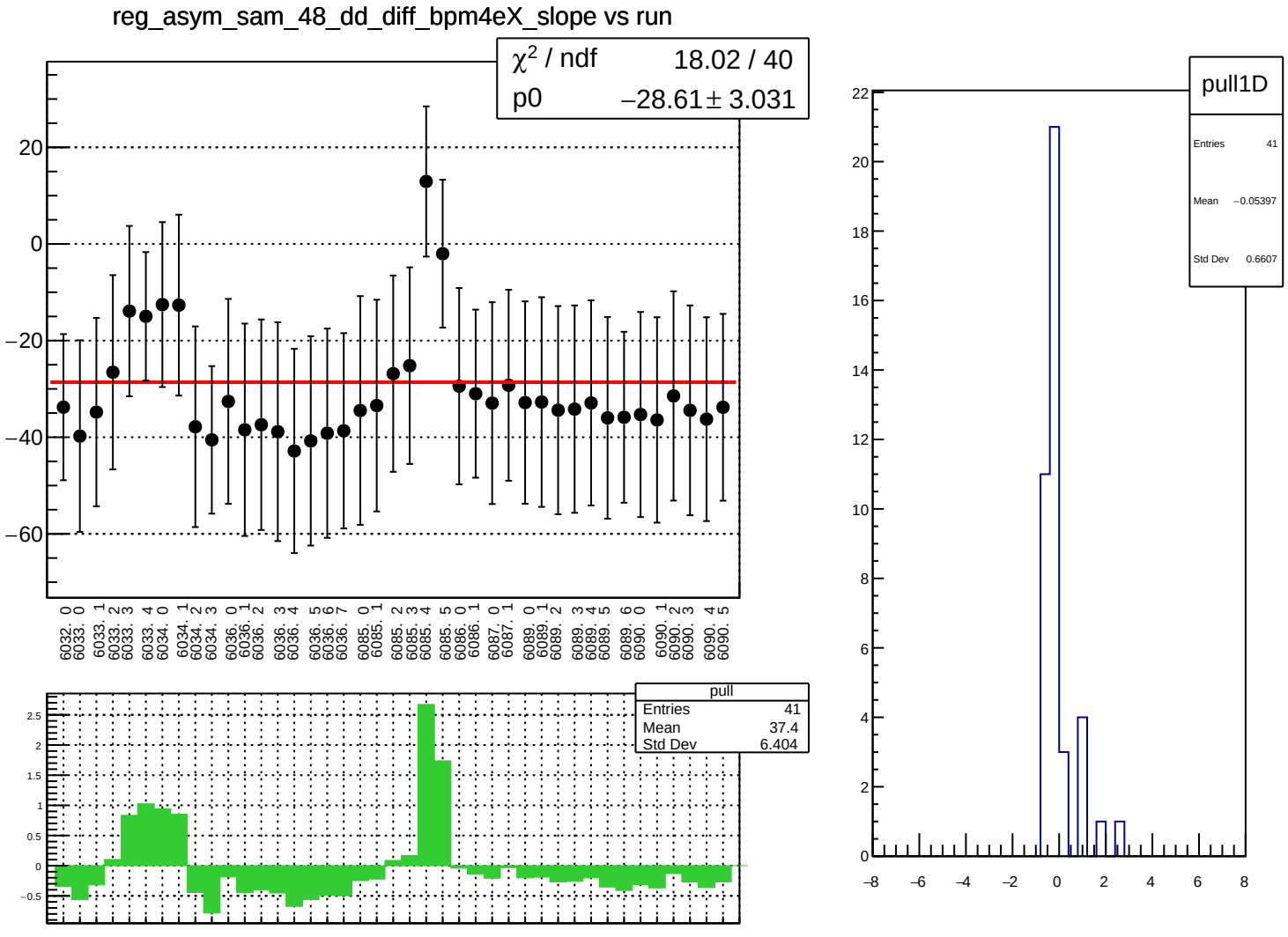

pull1D
Entries 41
Mean −0.007052
Std Dev 0.4502

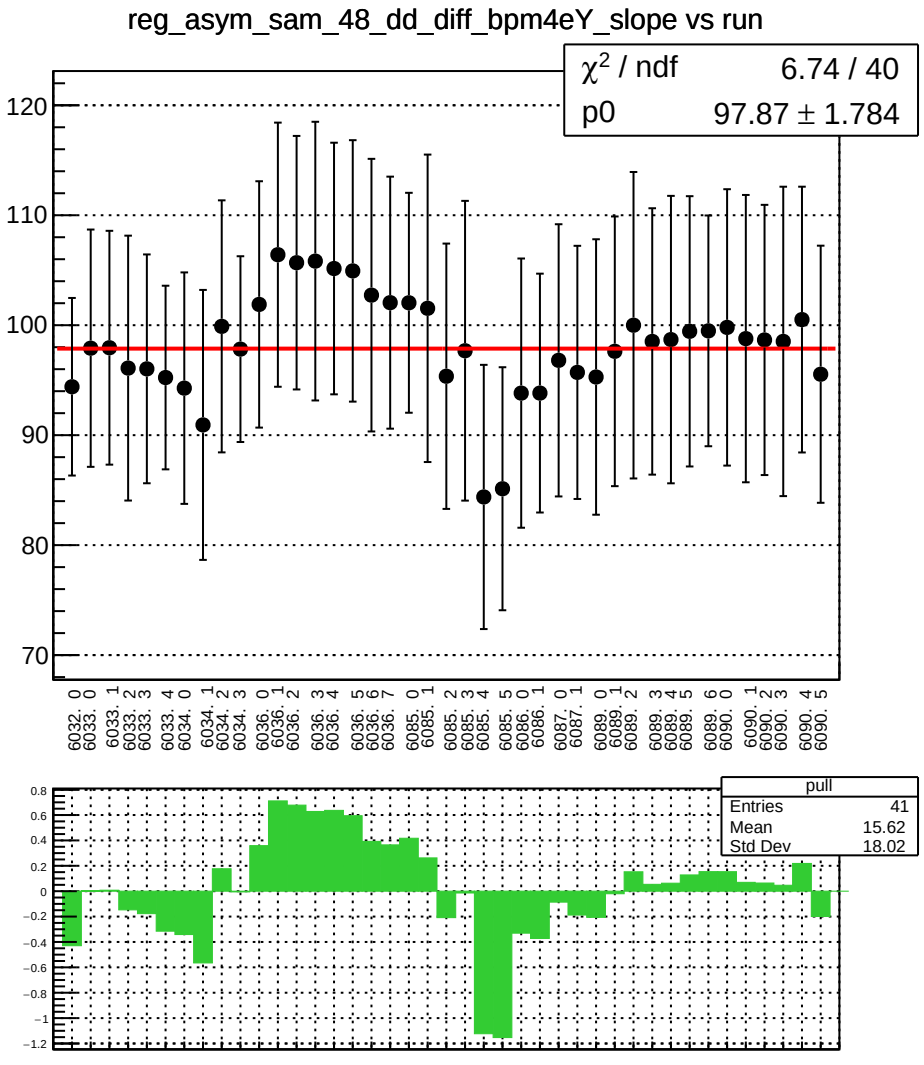

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.86 / 40
p0 −53.15 ± 2.712
pull
Entries 41
Mean 60.15
Std Dev 36.21

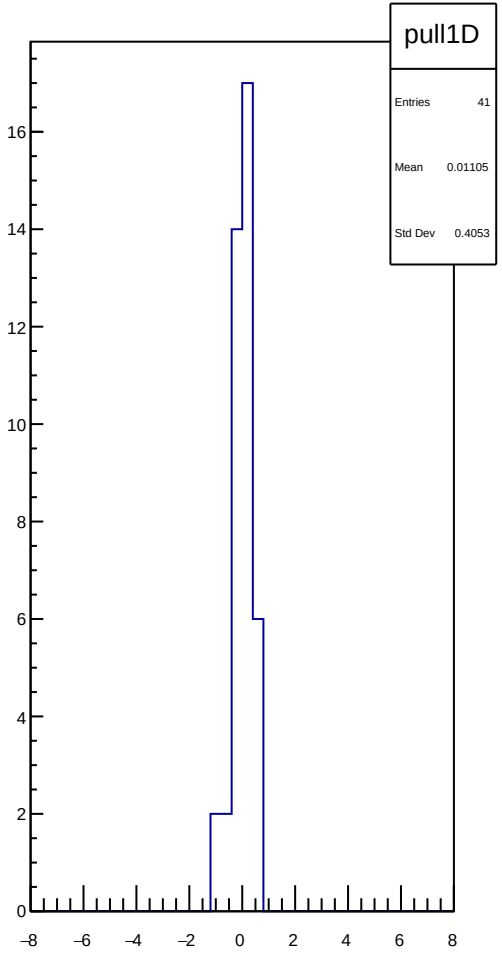

pull1D
Entries 41
Mean 0.0552
Std Dev 0.6759

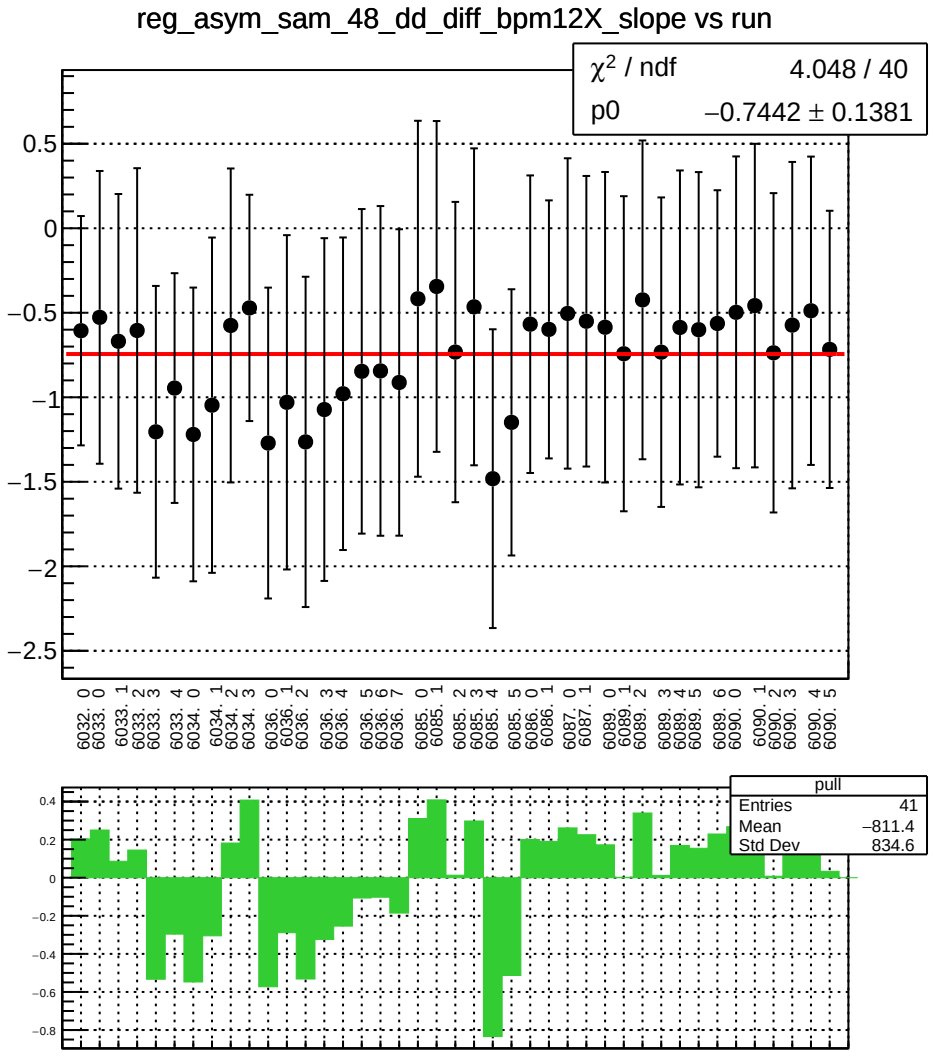

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.299 / 40
p0 27.35 ± 1.654
pull
Entries 41
Mean 294
Std Dev 256.8

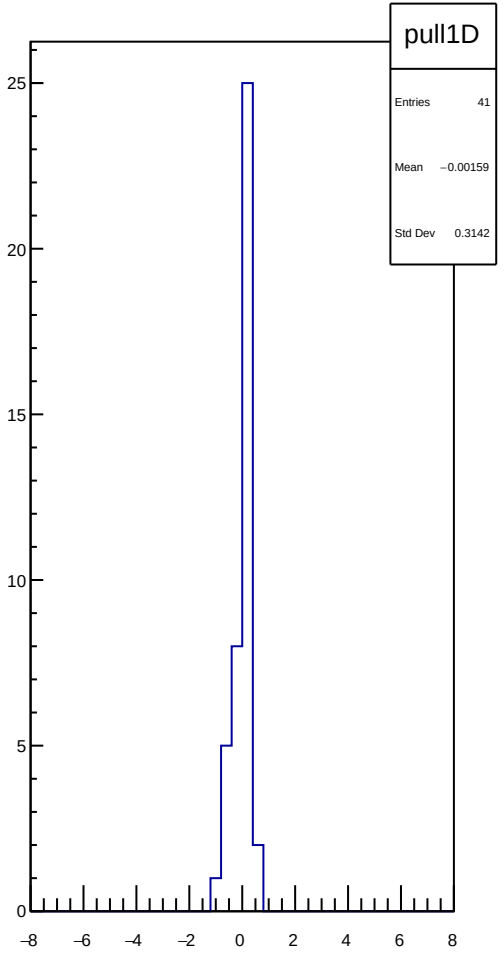

pull1D
Entries 41
Mean 0.0004075
Std Dev 0.3595

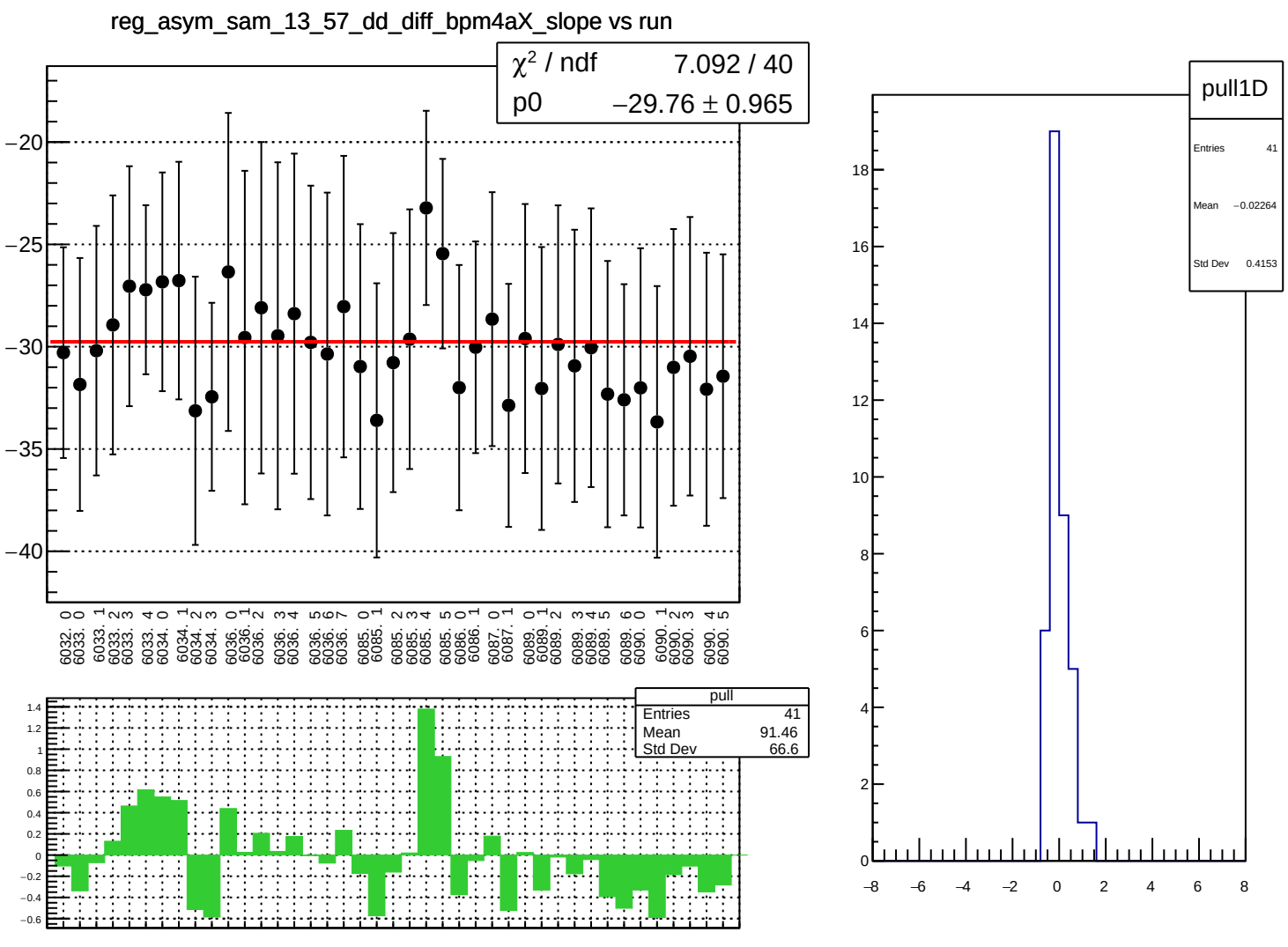

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.02 / 40
p0 −28.61 ± 3.031
pull
Entries 41
Mean 37.4
Std Dev 6.404
pull1D
Entries 41
Mean −0.05397
Std Dev 0.6607

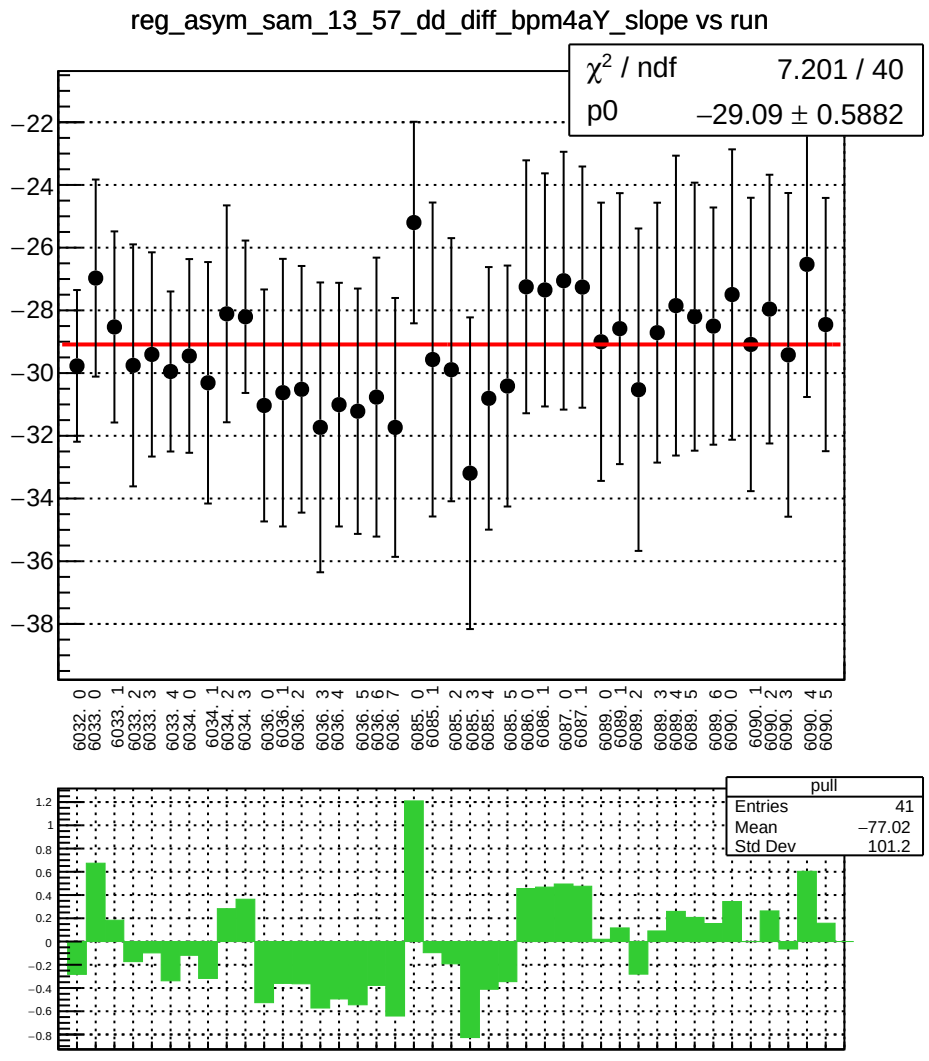

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.74 / 40
p0 97.87 ± 1.784
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 15.62
Std Dev 18.02
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

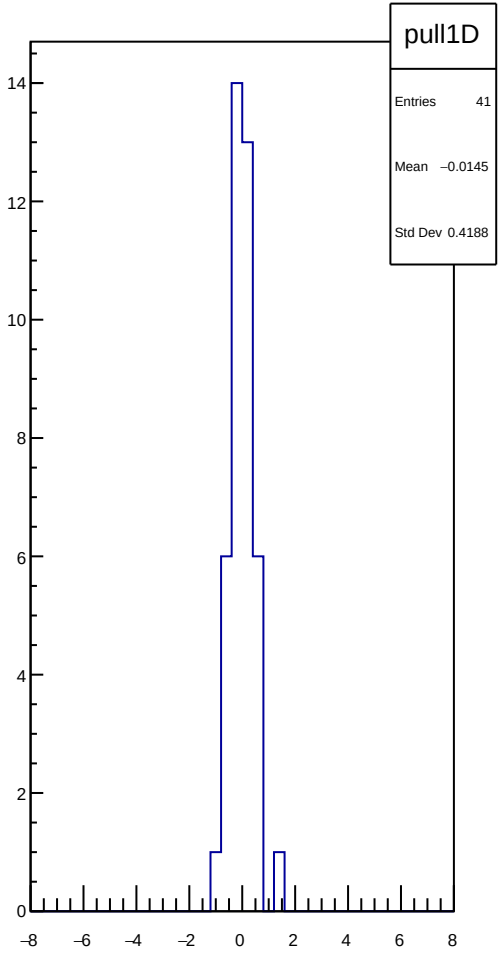

pull1D
Entries 41
Mean 0.01105
Std Dev 0.4053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

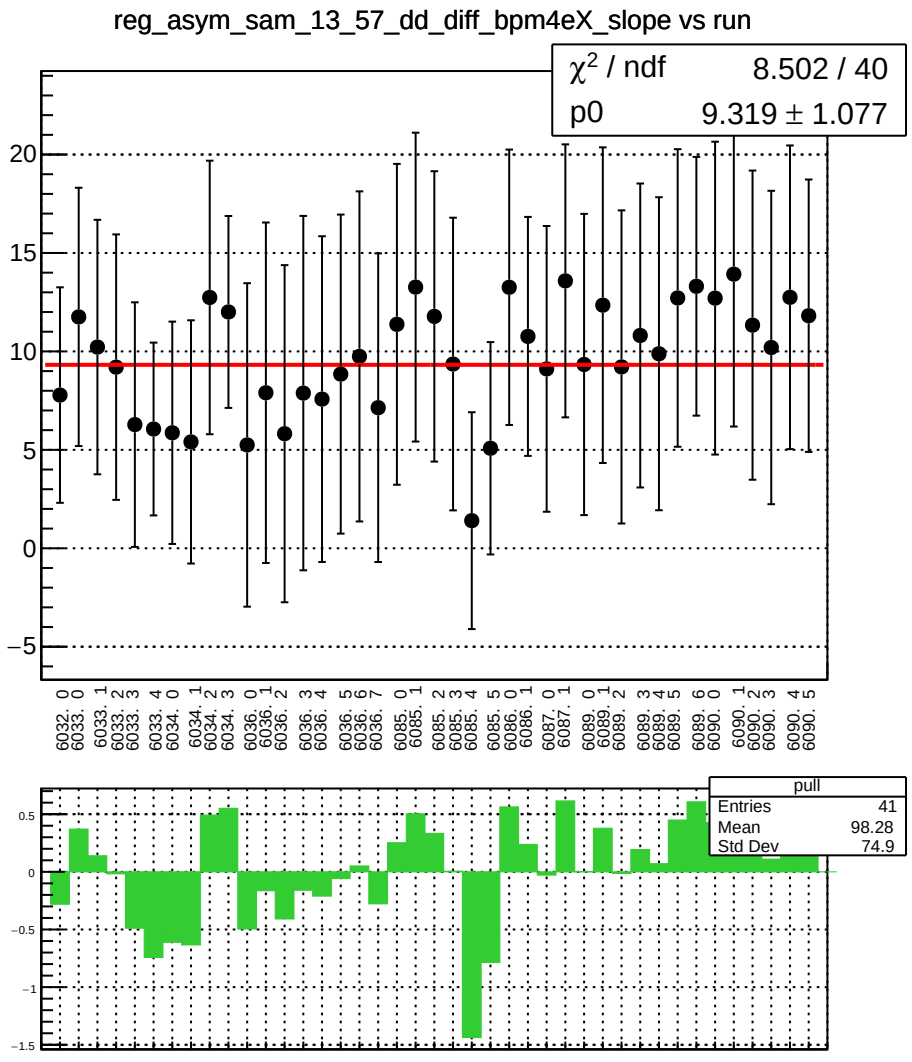

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.048 / 40
p0 −0.7442 ± 0.1381
pull
Entries 41
Mean −811.4
Std Dev 834.6

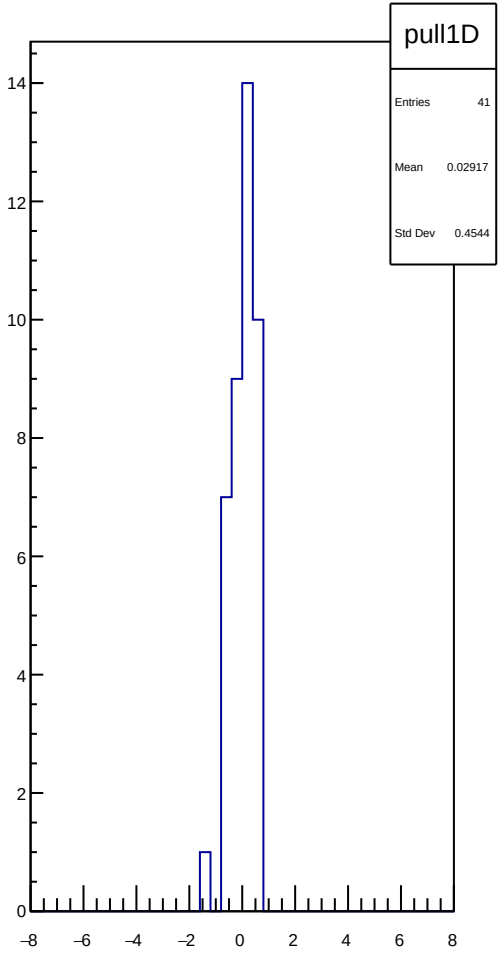

pull1D
Entries 41
Mean −0.00159
Std Dev 0.3142

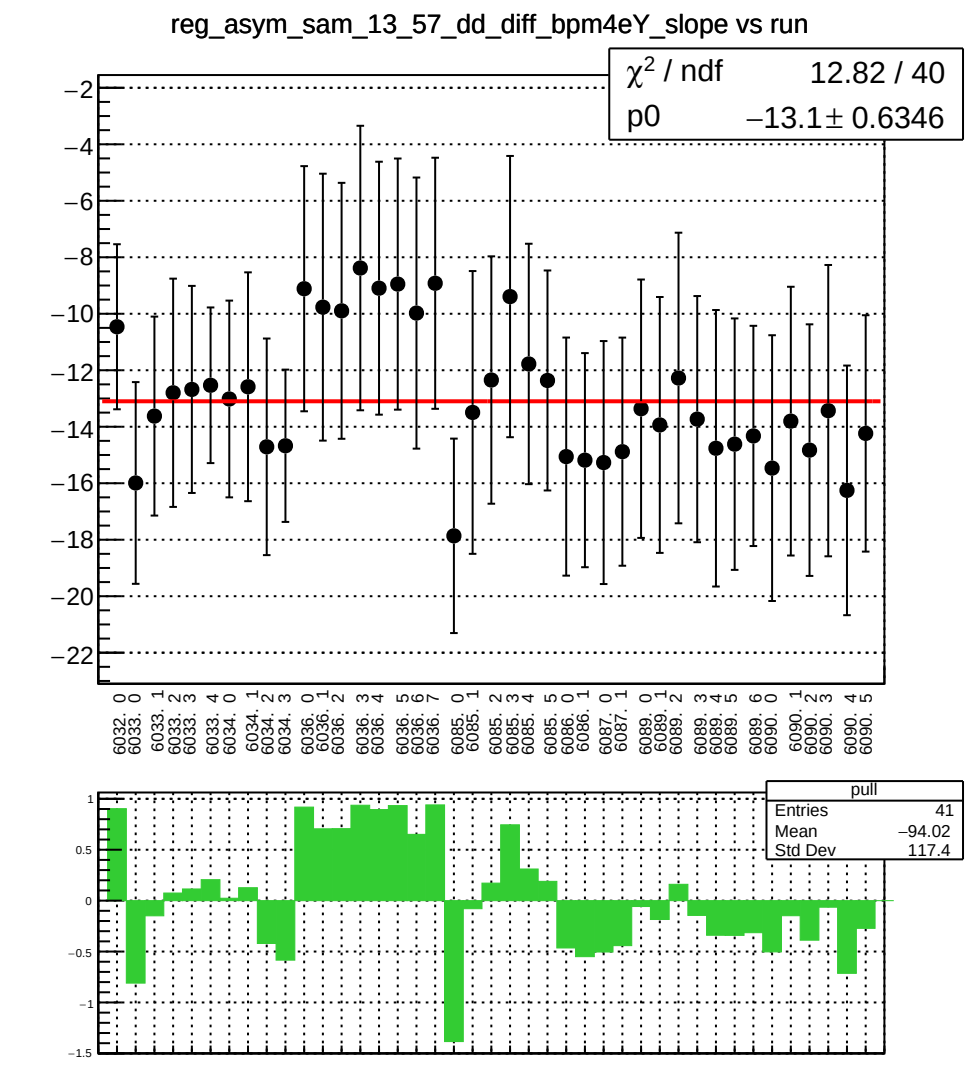

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.092 / 40
p0 −29.76 ± 0.965
pull
Entries 41
Mean 91.46
Std Dev 66.6
pull1D
Entries 41
Mean −0.02264
Std Dev 0.4153

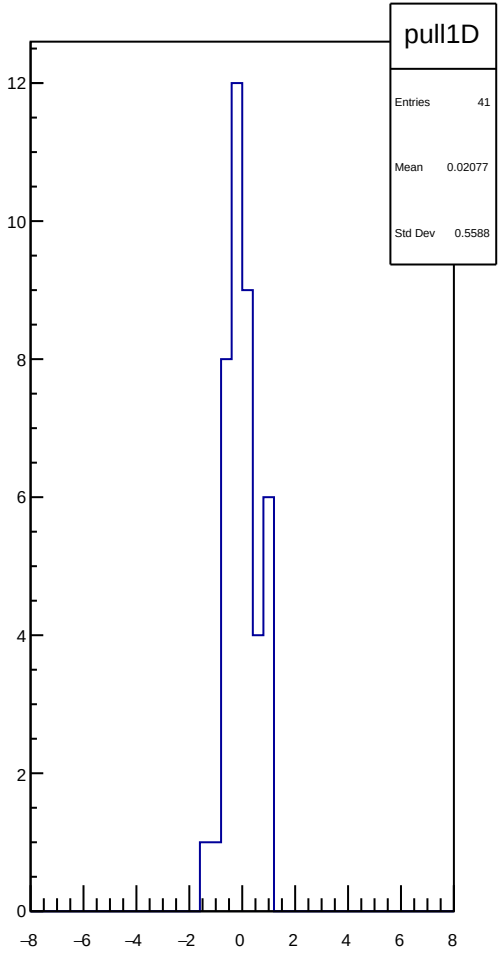

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.201 / 40
p0 −29.09 ± 0.5882
pull
Entries 41
Mean −77.02
Std Dev 101.2

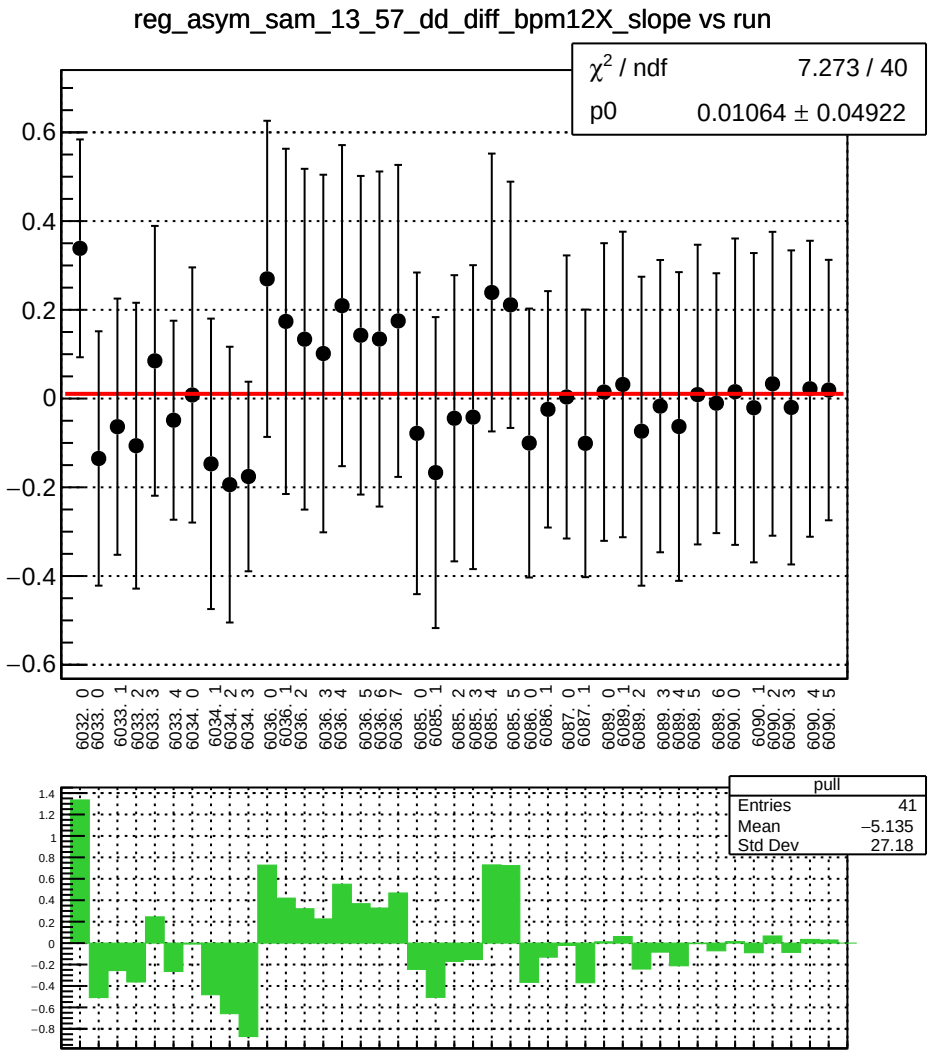

pull1D
Entries 41
Mean −0.0145
Std Dev 0.4188

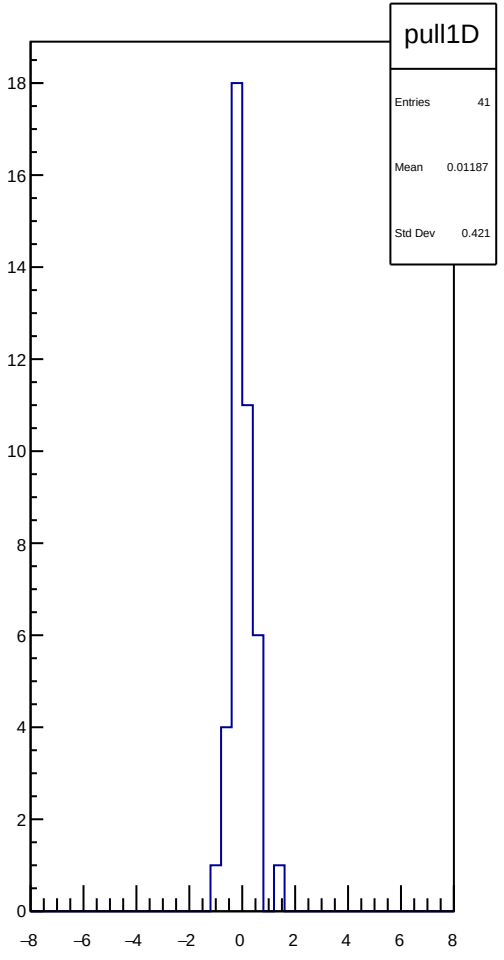

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.502 / 40
p0 9.319 ± 1.077
pull
Entries 41
Mean 98.28
Std Dev 74.9

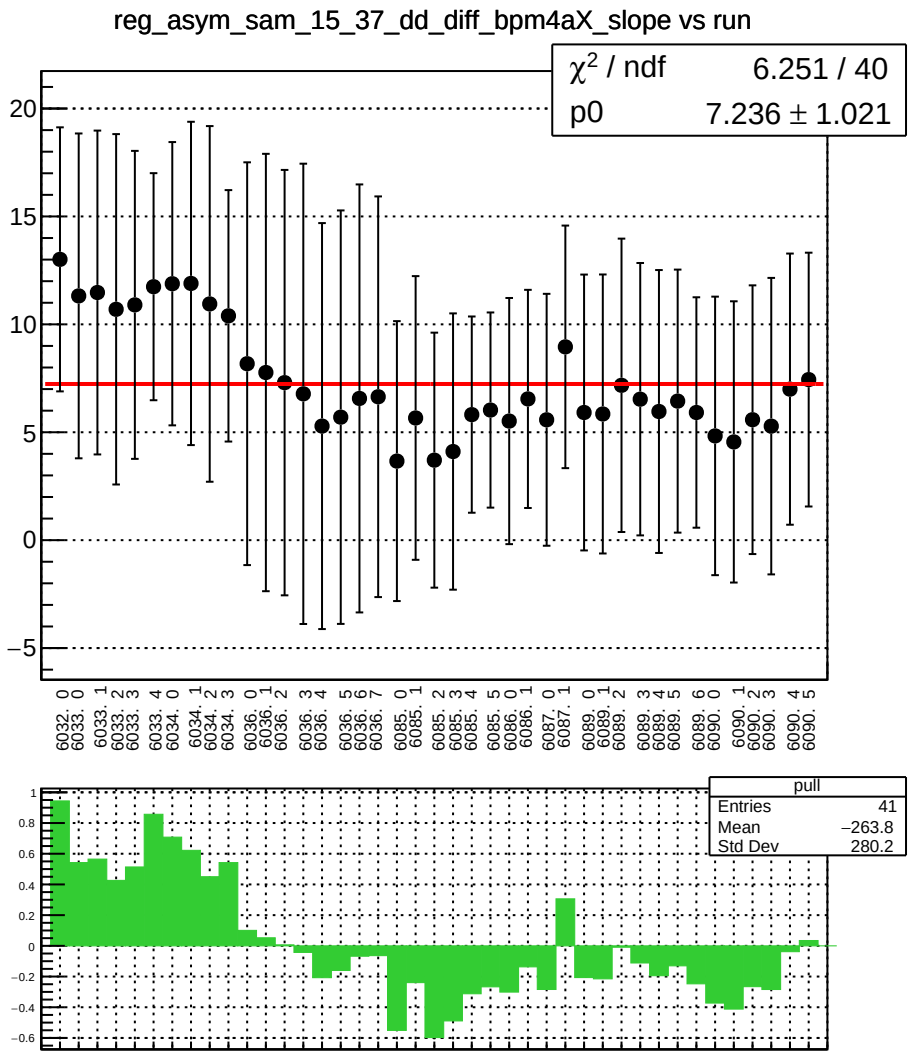

pull1D
Entries 41
Mean 0.02917
Std Dev 0.4544

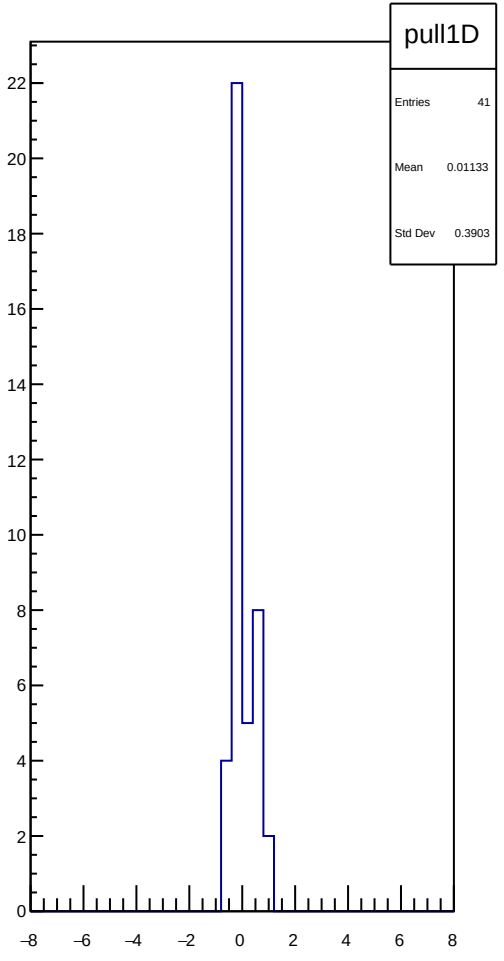

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.82 / 40
p0 −13.1 ± 0.6346
pull
Entries 41
Mean −94.02
Std Dev 117.4

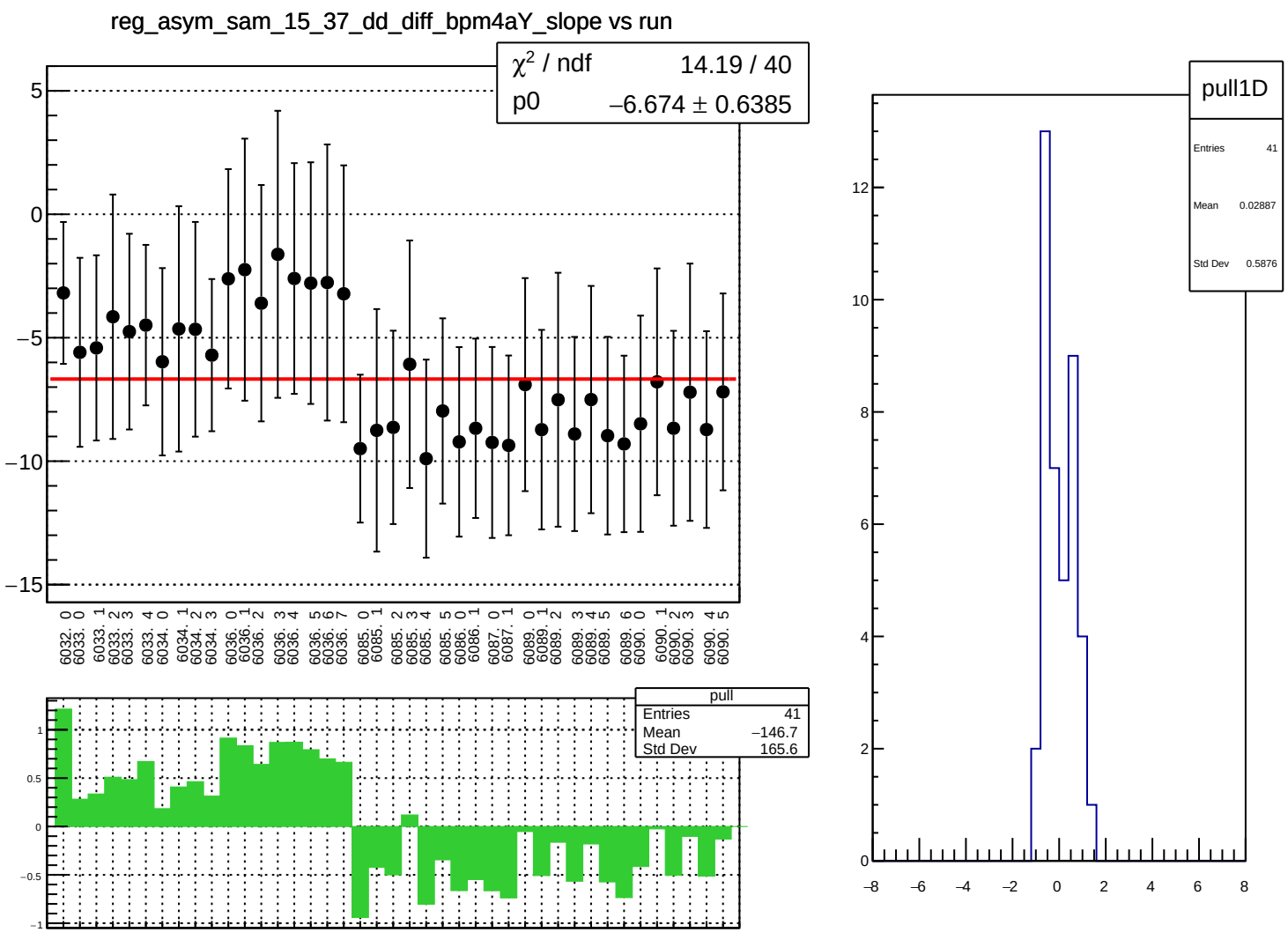

pull1D
Entries 41
Mean 0.02077
Std Dev 0.5588

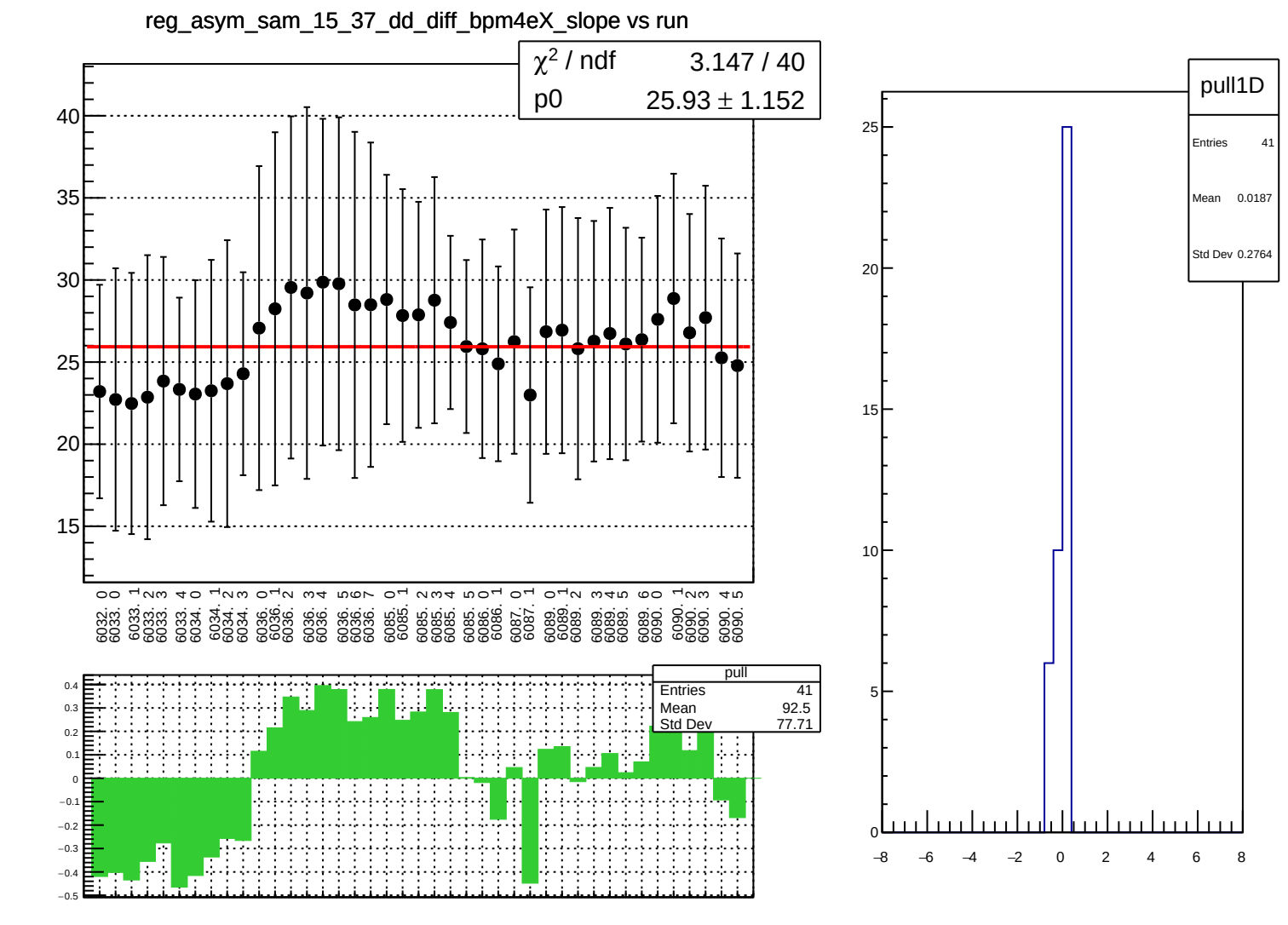

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 7.273 / 40
p0 0.01064 ± 0.04922
pull
Entries 41
Mean −5.135
Std Dev 27.18

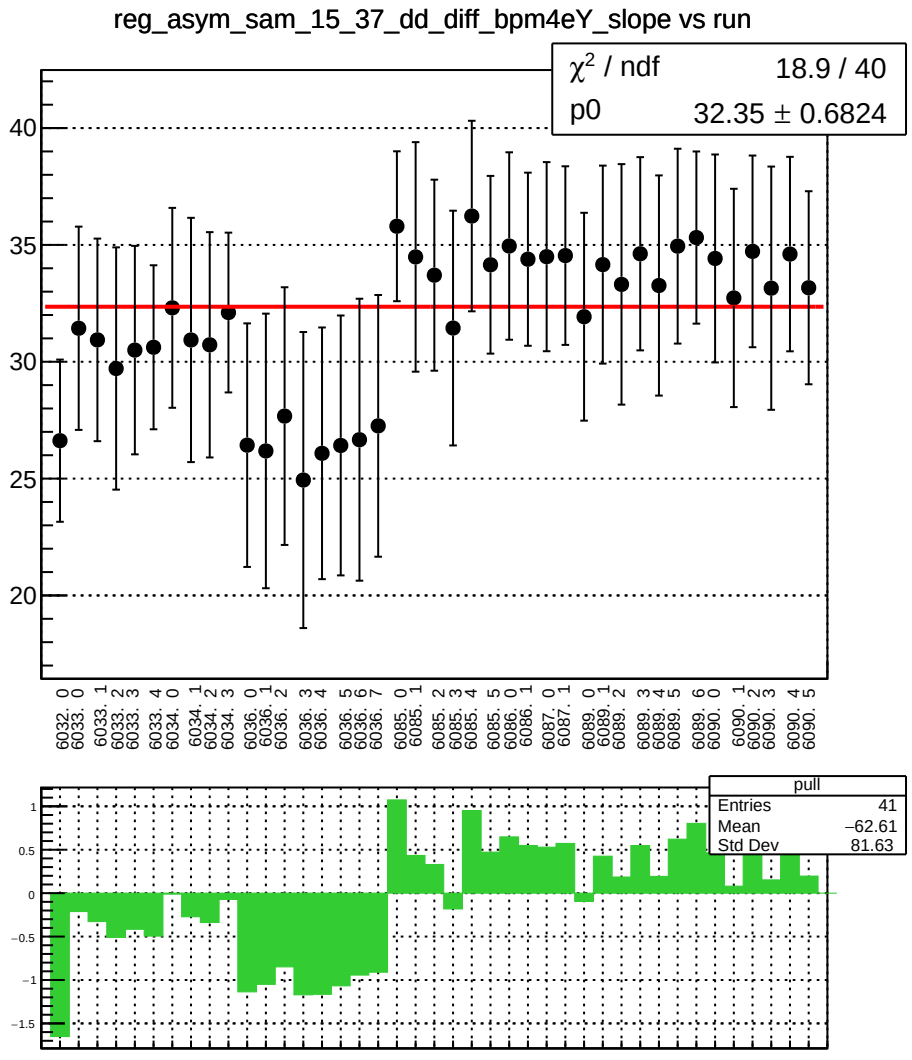

pull1D
Entries 41
Mean 0.01187
Std Dev 0.421

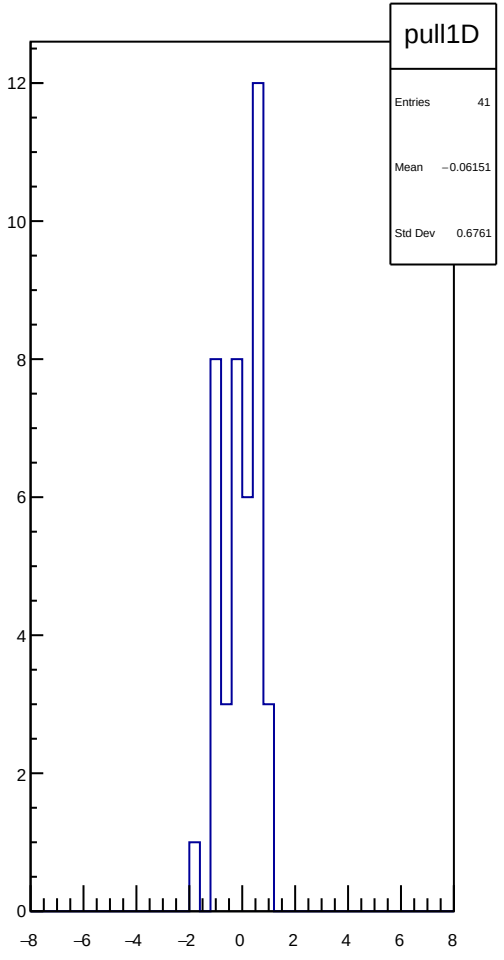

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.251 / 40
p0 7.236 ± 1.021
pull
Entries 41
Mean −263.8
Std Dev 280.2

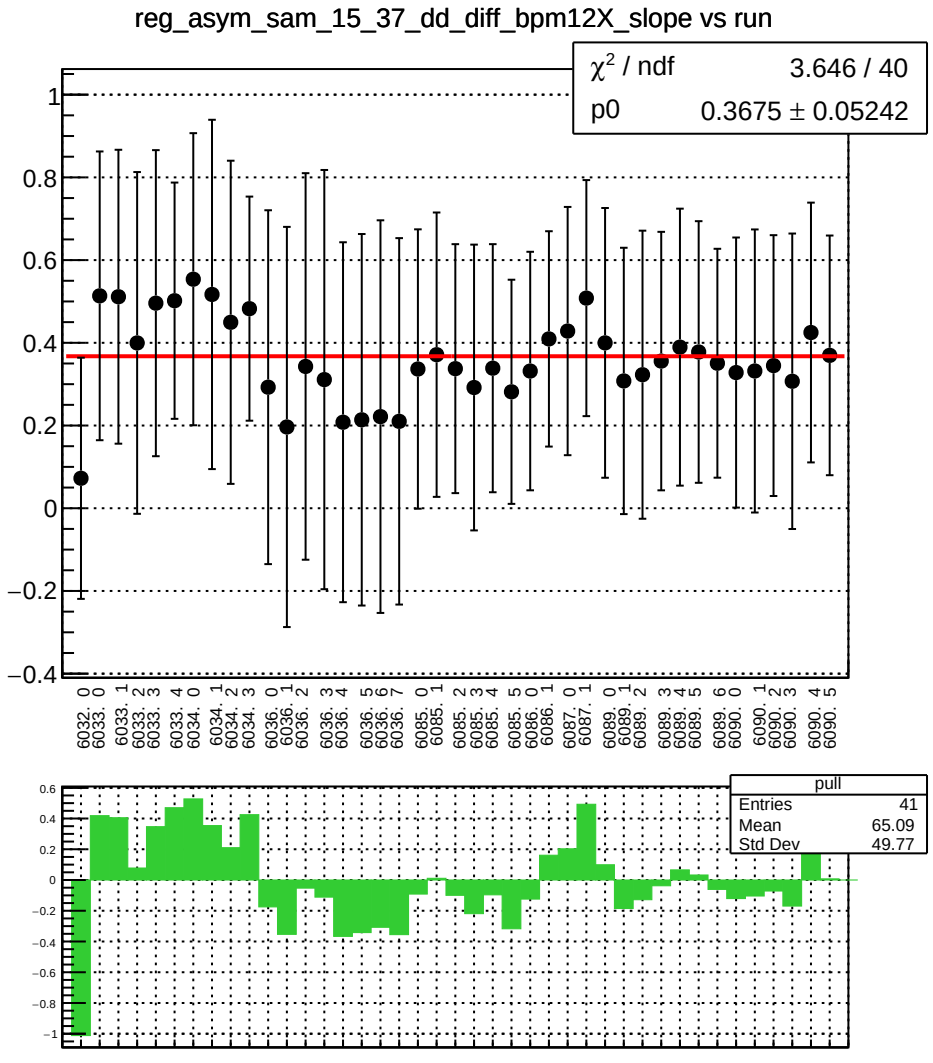

pull1D
Entries 41
Mean 0.01133
Std Dev 0.3903

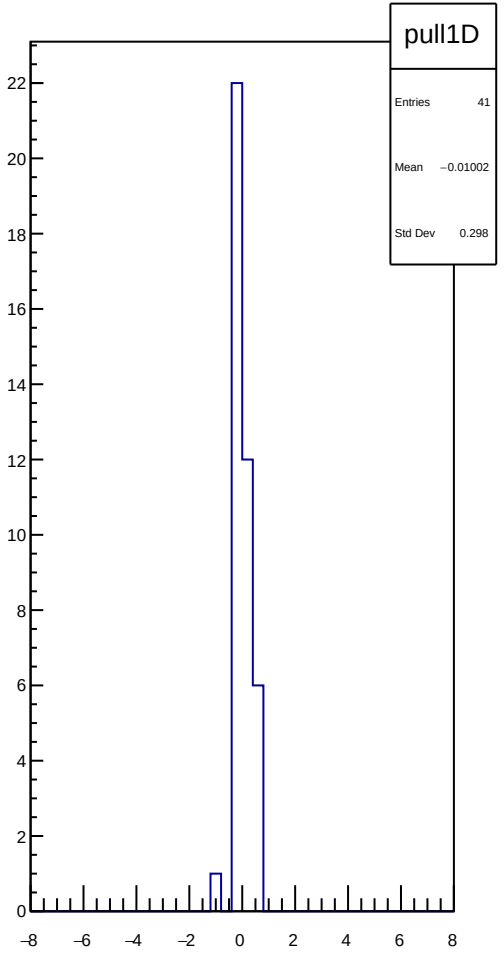

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.19 / 40
p0 −6.674 ± 0.6385
pull
Entries 41
Mean −146.7
Std Dev 165.6
pull1D
Entries 41
Mean 0.02887
Std Dev 0.5876

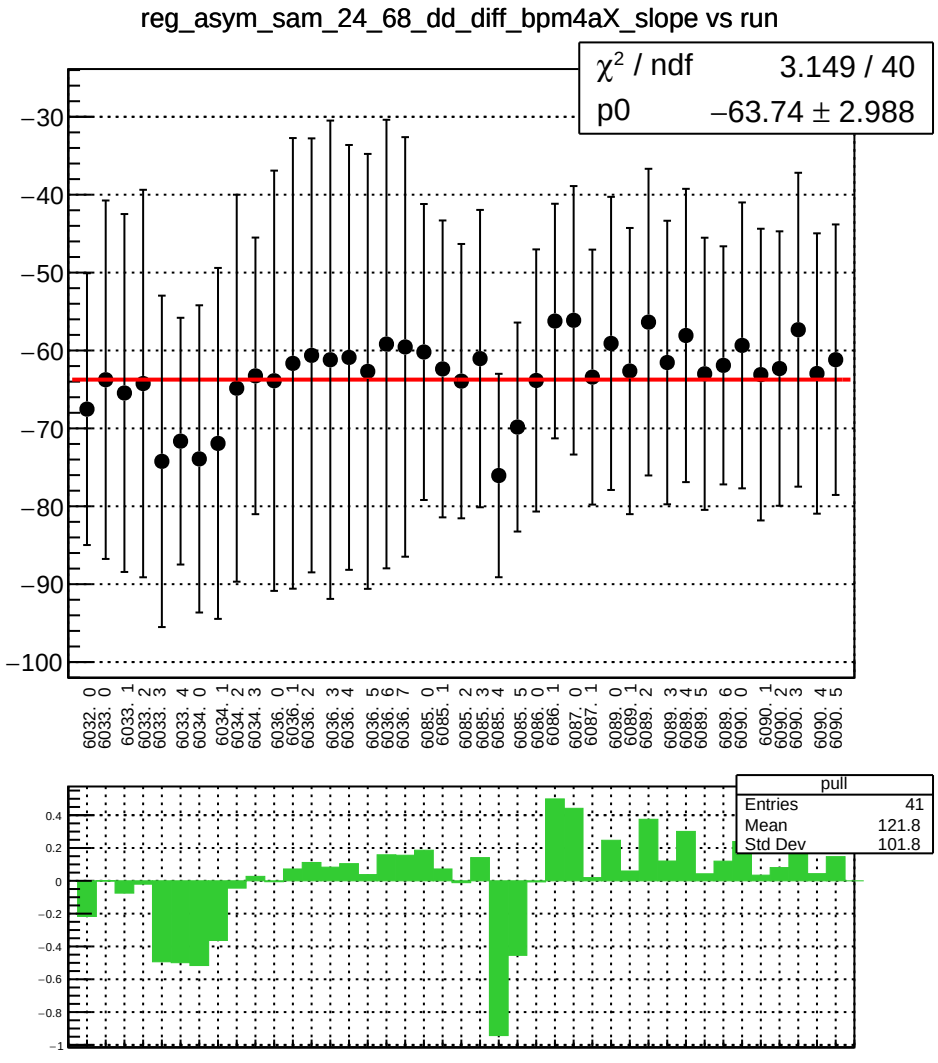

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.147 / 40
p0 25.93 ± 1.152
pull
Entries 41
Mean 92.5
Std Dev 77.71
pull1D
Entries 41
Mean 0.0187
Std Dev 0.2764

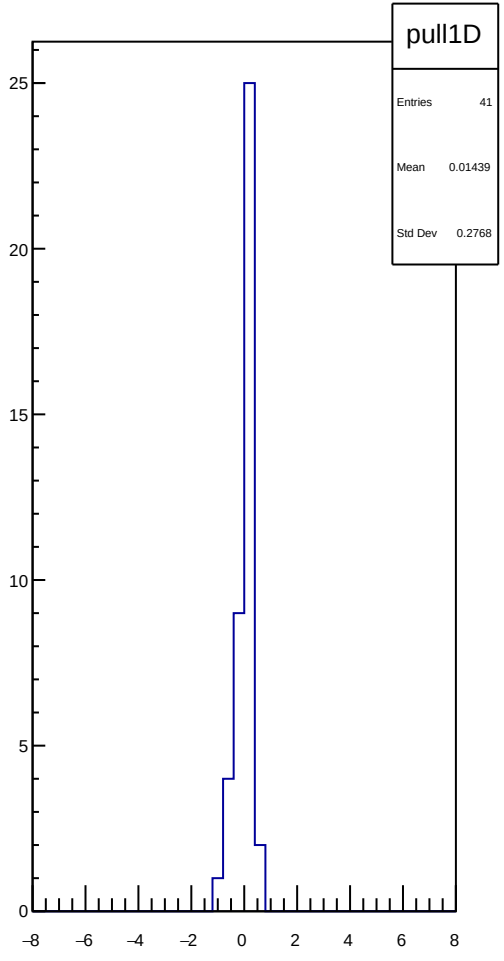

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.9 / 40
p0 32.35 ± 0.6824
pull
Entries 41
Mean −62.61
Std Dev 81.63

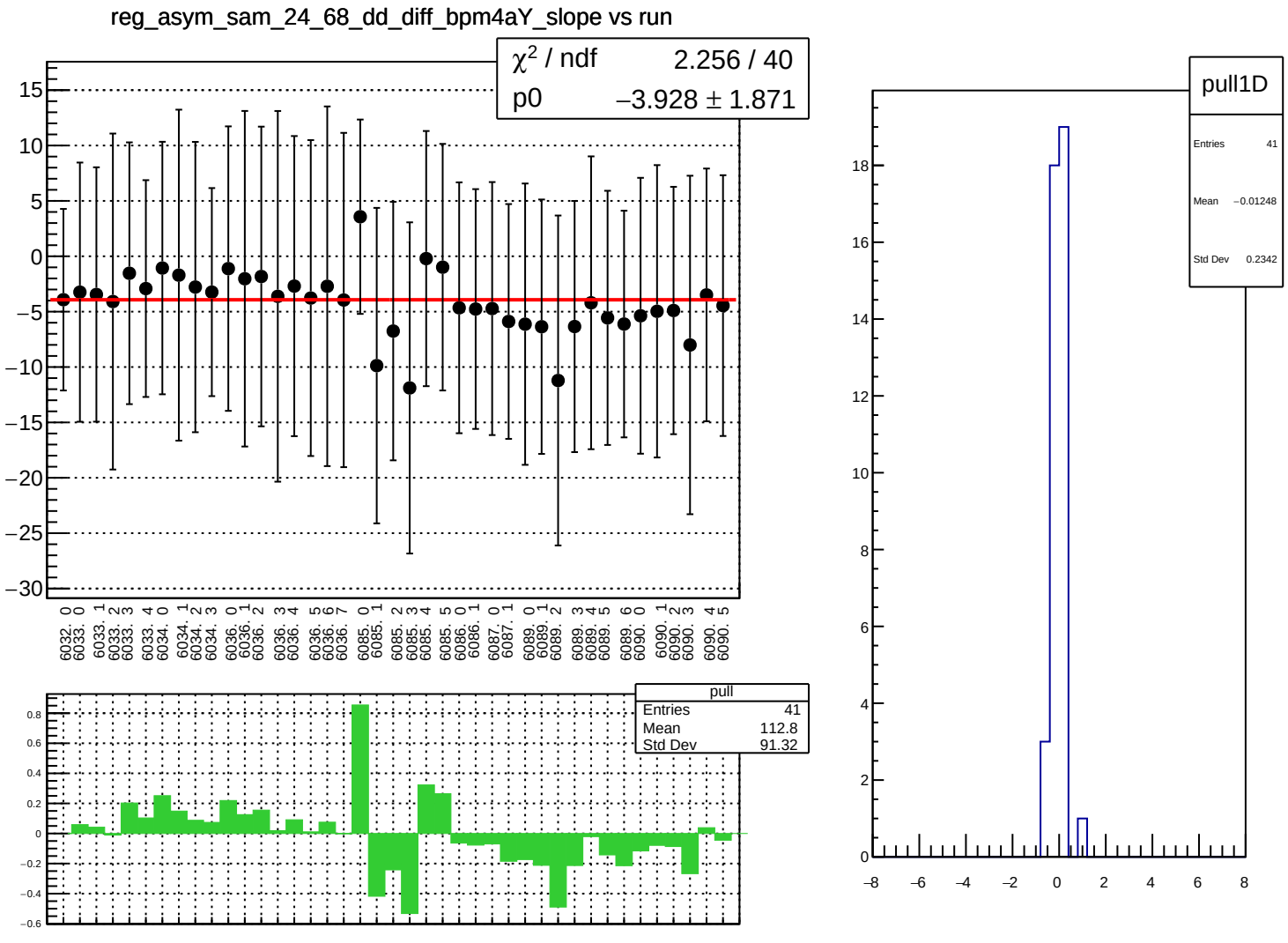

pull1D
Entries 41
Mean −0.06151
Std Dev 0.6761

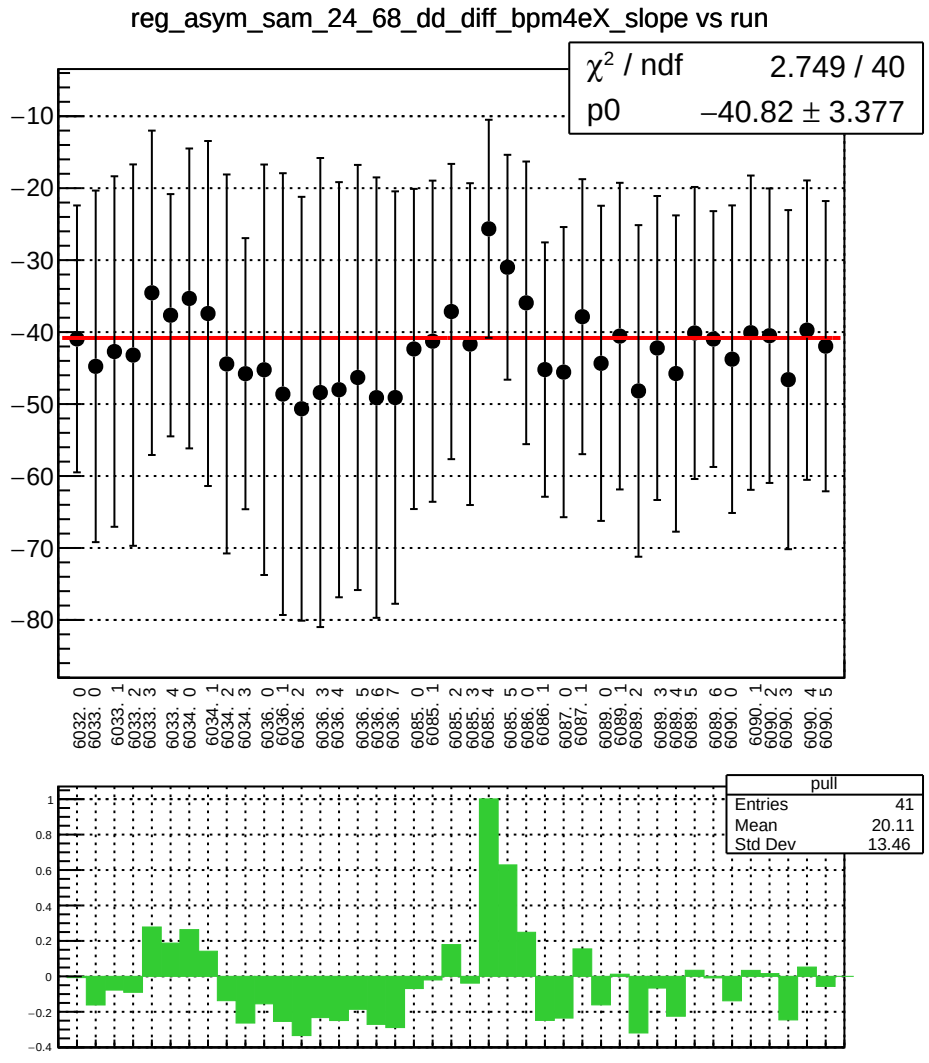

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.646 / 40
p0 0.3675 ± 0.05242
pull
Entries 41
Mean 65.09
Std Dev 49.77

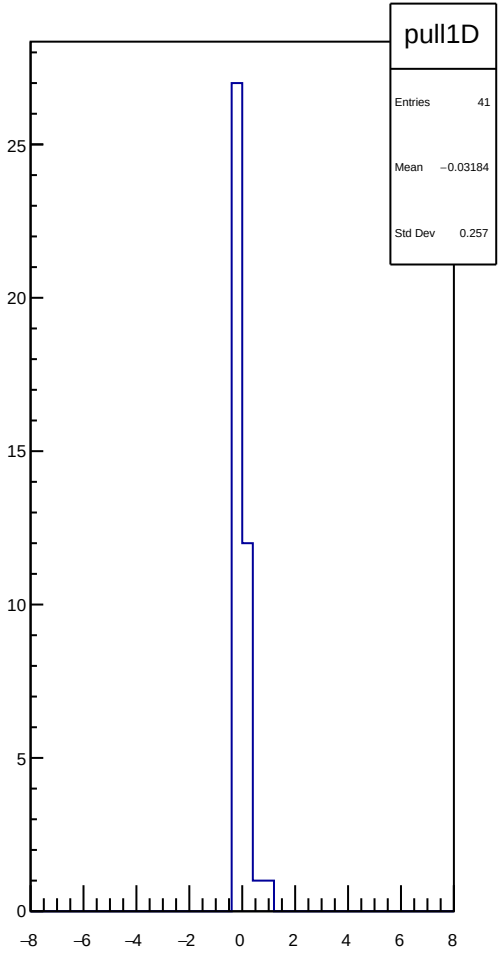

pull1D
Entries 41
Mean −0.01002
Std Dev 0.298

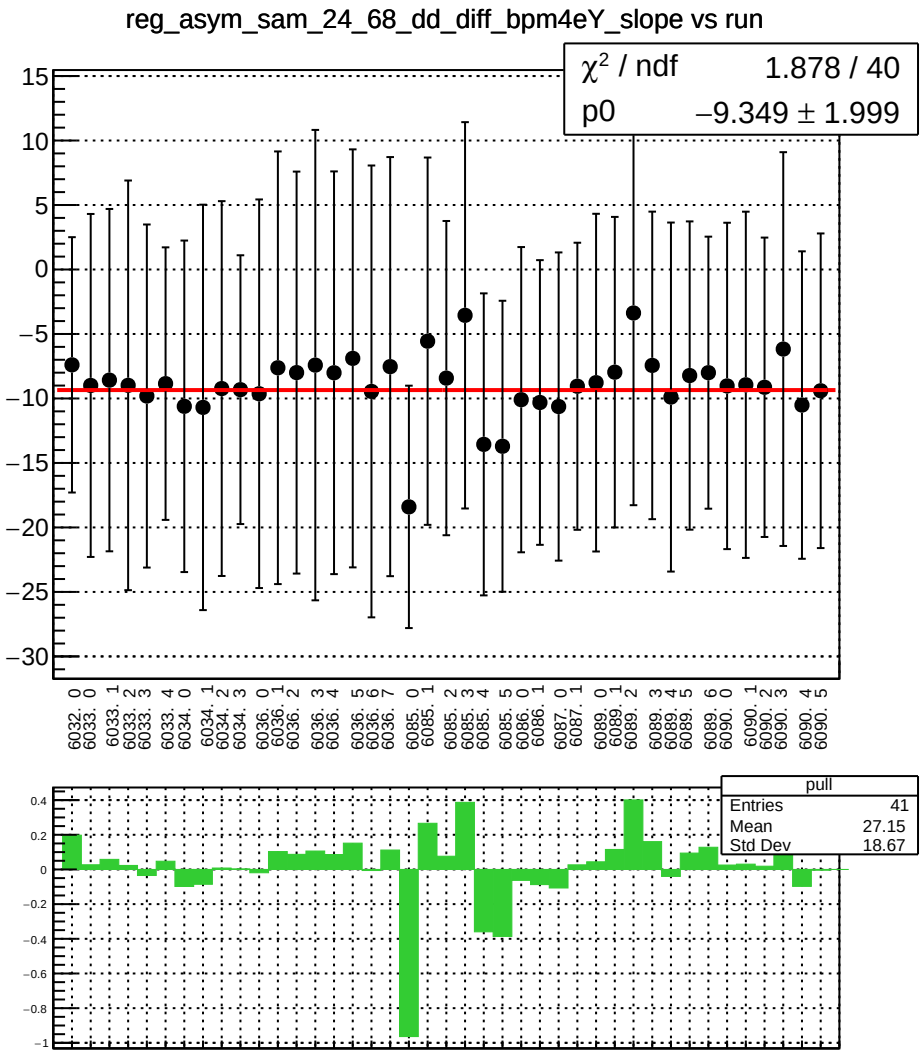

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.149 / 40
p0 −63.74 ± 2.988
pull
Entries 41
Mean 121.8
Std Dev 101.8

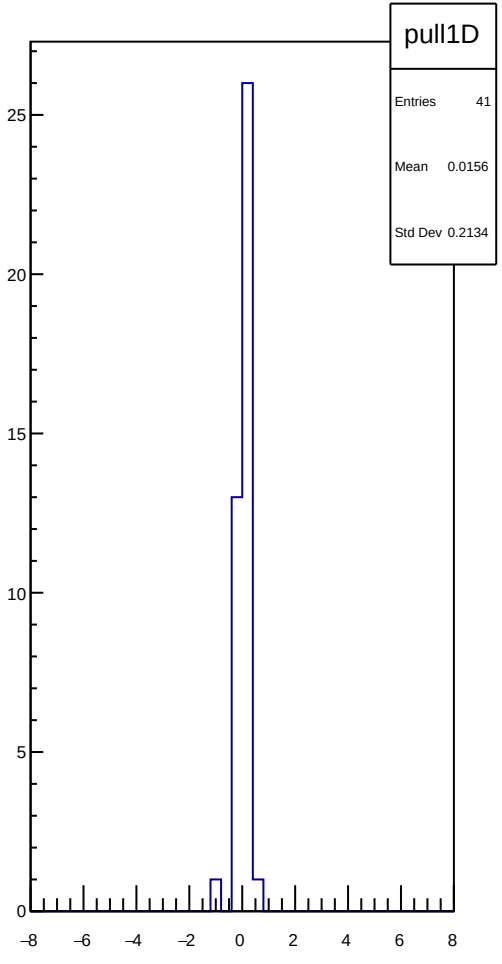

pull1D
Entries 41
Mean 0.01439
Std Dev 0.2768

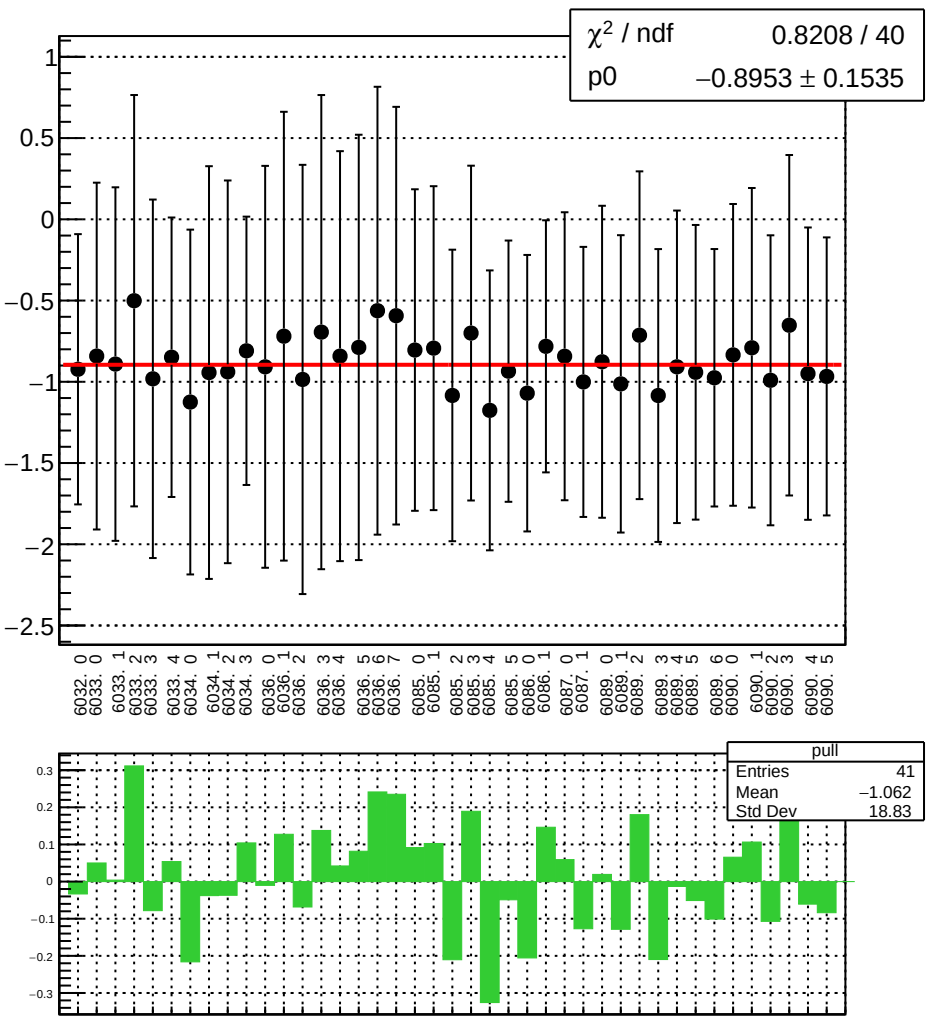

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.256 / 40
p0 −3.928 ± 1.871
pull
Entries 41
Mean 112.8
Std Dev 91.32
pull1D
Entries 41
Mean −0.01248
Std Dev 0.2342

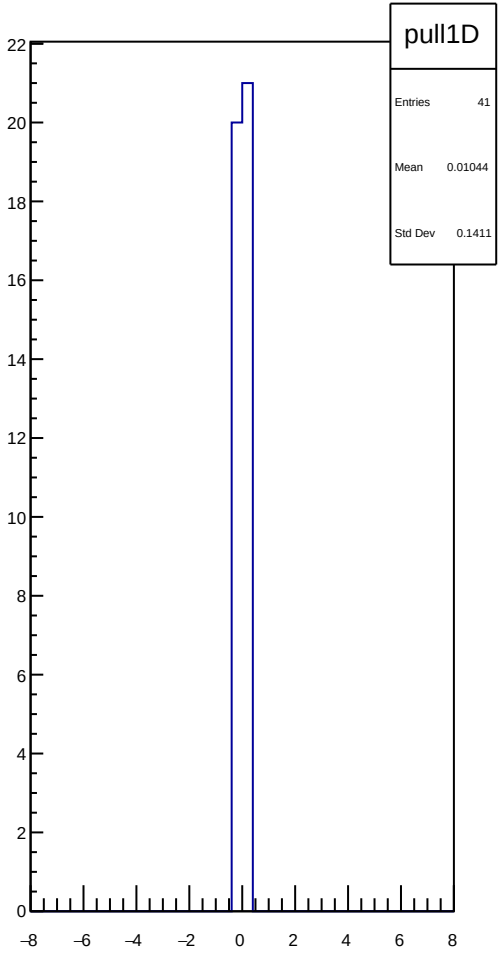

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.749 / 40
p0 −40.82 ± 3.377
pull
Entries 41
Mean 20.11
Std Dev 13.46

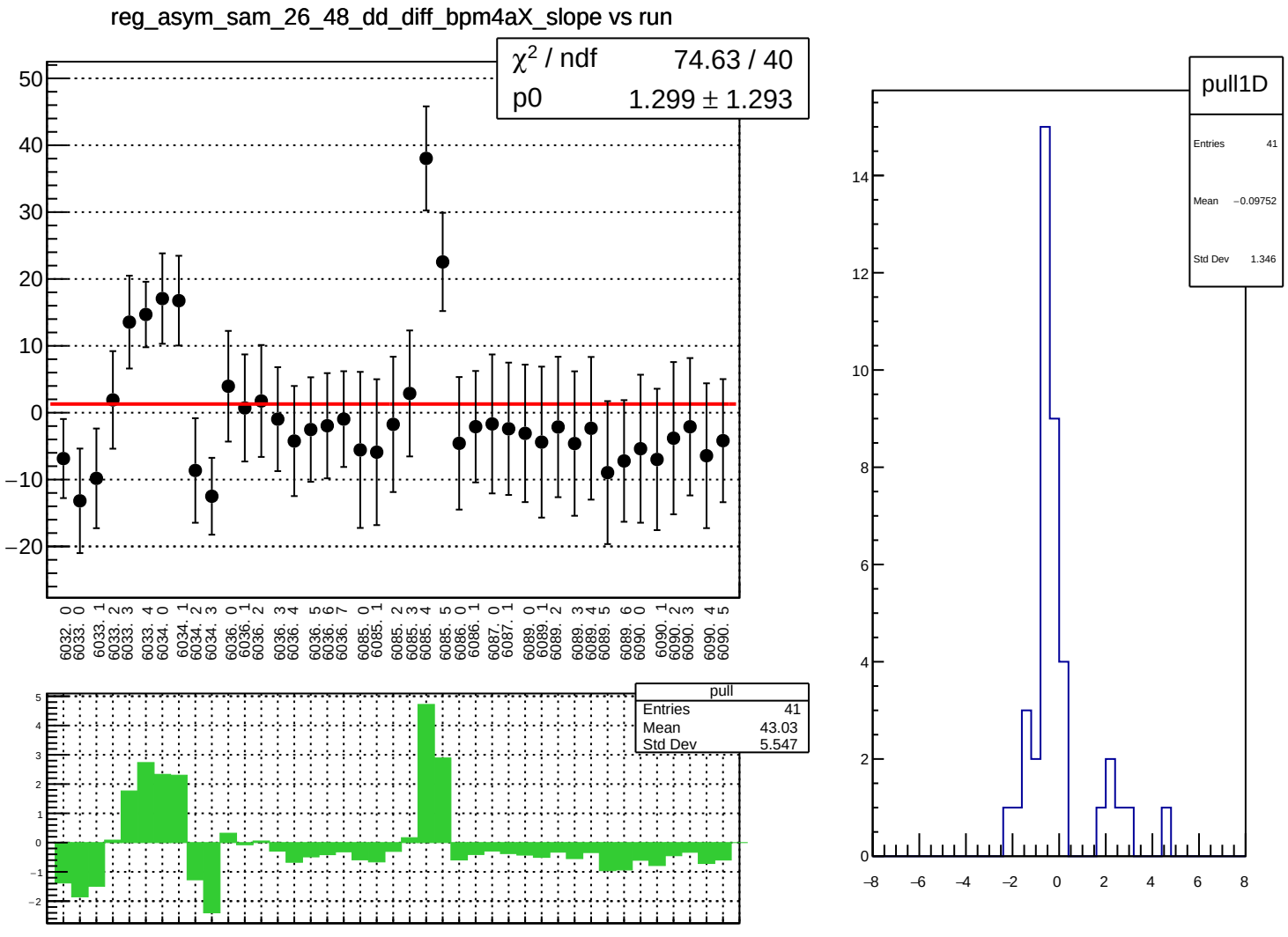

pull1D
Entries 41
Mean −0.03184
Std Dev 0.257

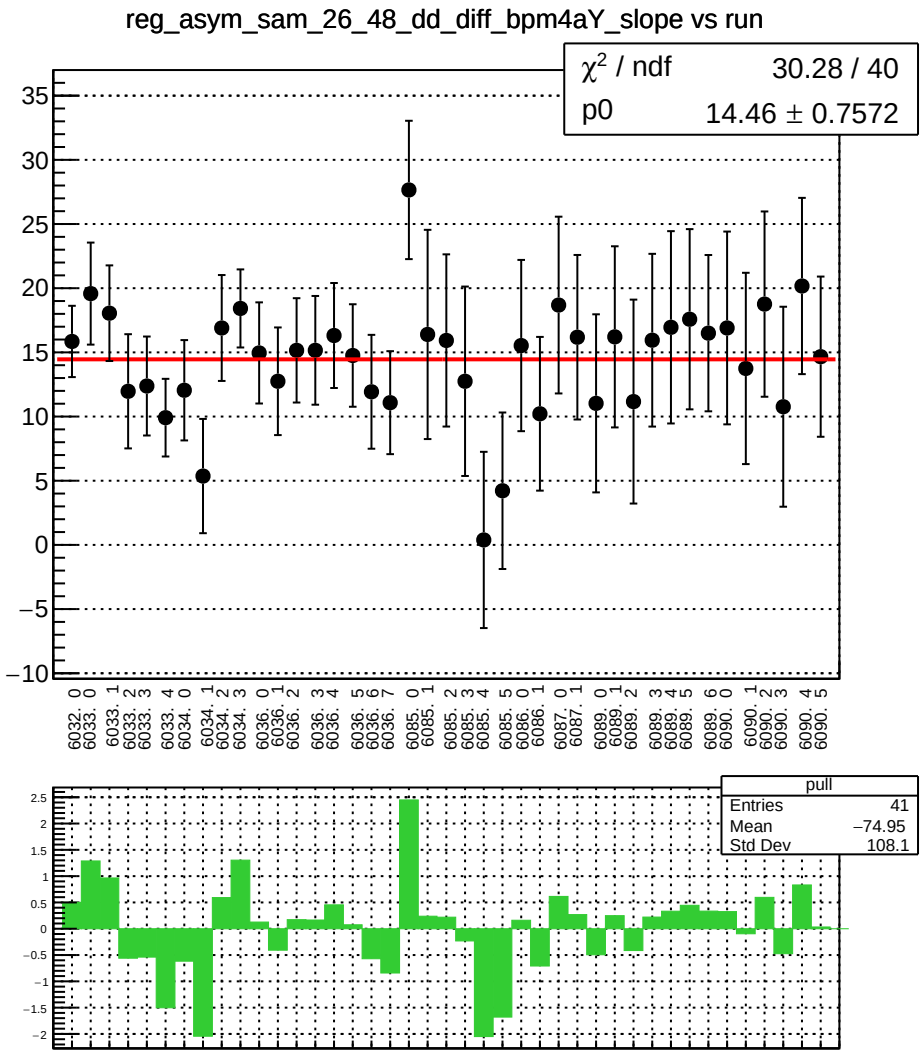

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.878 / 40
p0 −9.349 ± 1.999
pull
Entries 41
Mean 27.15
Std Dev 18.67

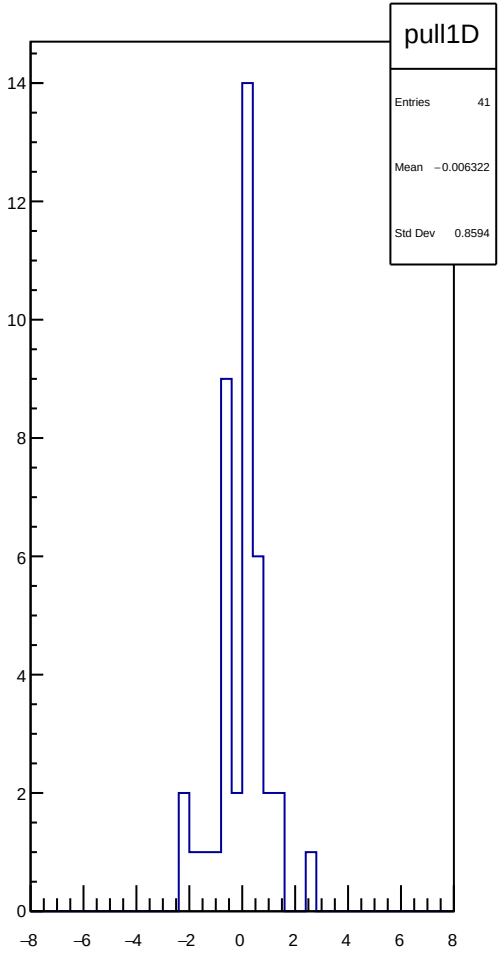

pull1D
Entries 41
Mean 0.0156
Std Dev 0.2134

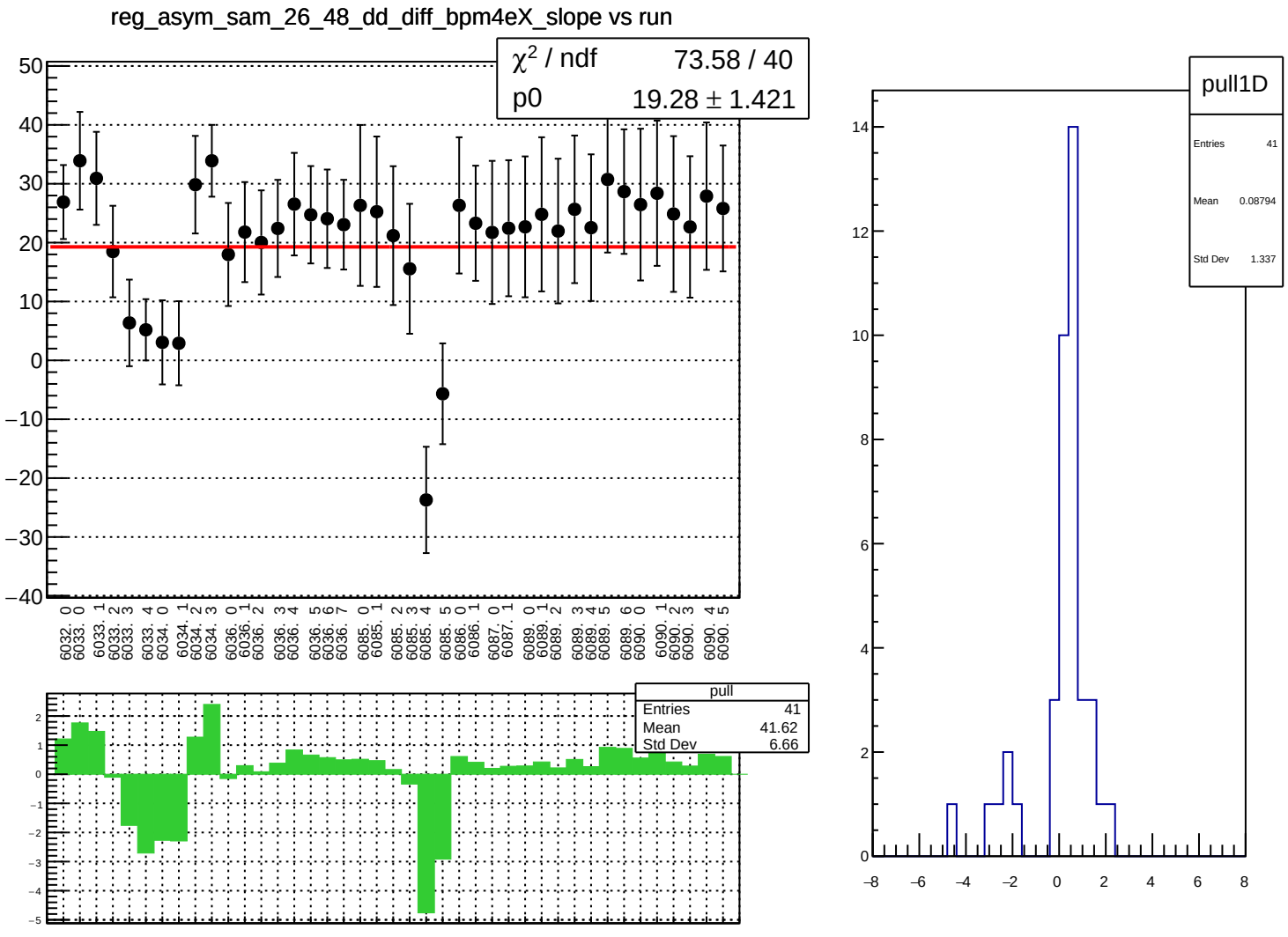

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8208 / 40
p0 −0.8953 ± 0.1535
pull
Entries 41
Mean −1.062
Std Dev 18.83

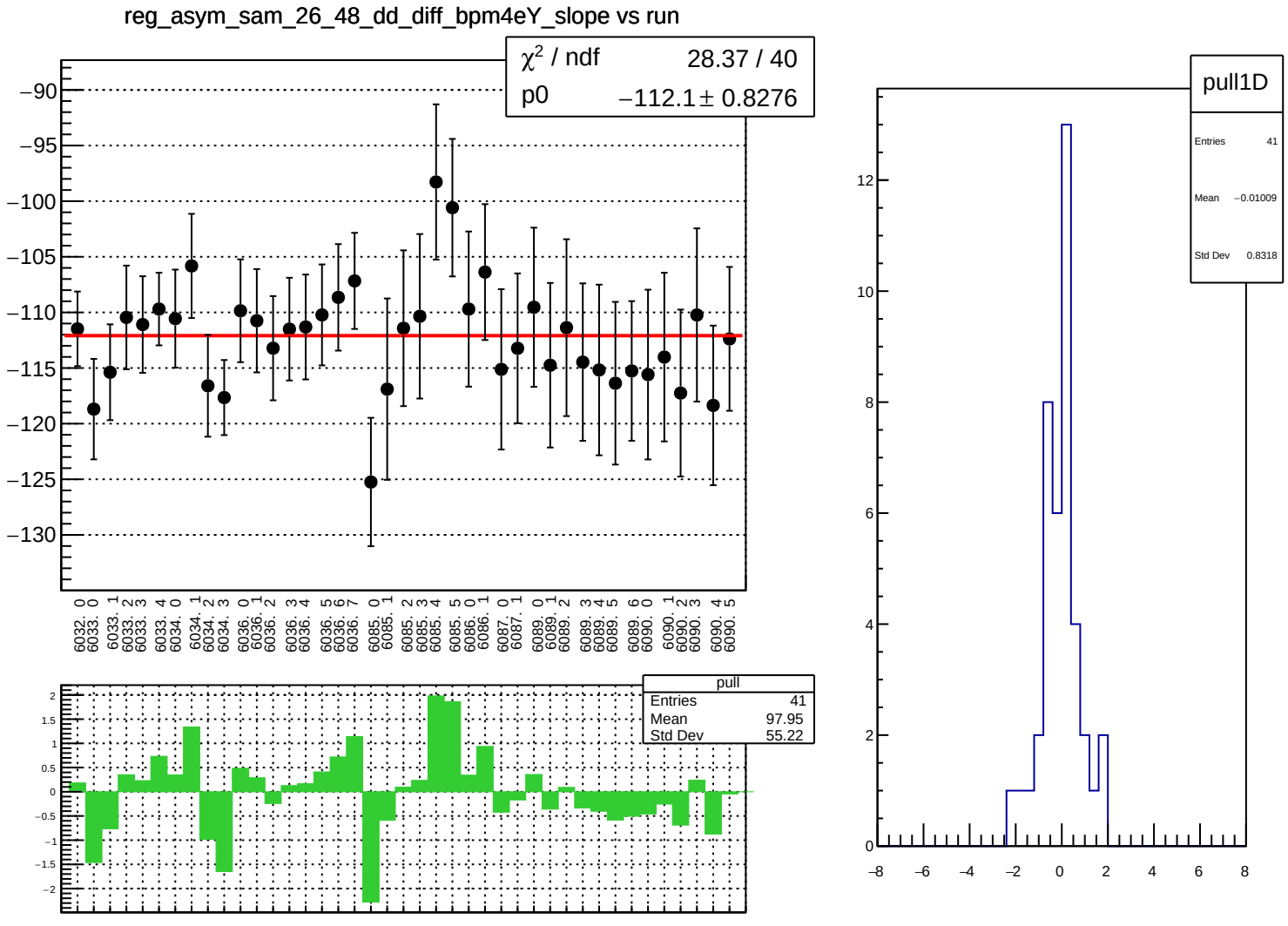

pull1D
Entries 41
Mean 0.01044
Std Dev 0.1411

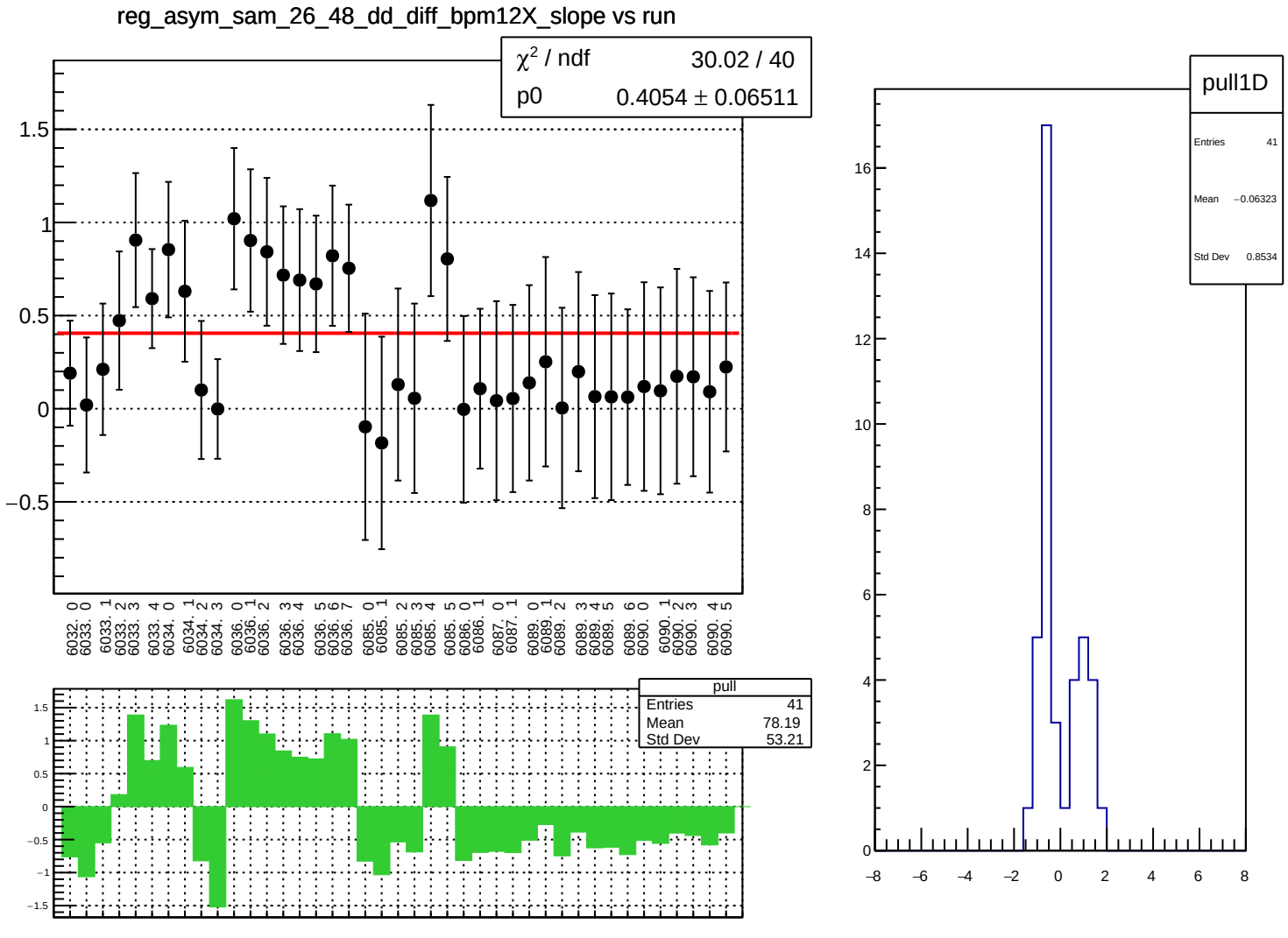

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 74.63 / 40
p0 1.299 ± 1.293
pull
Entries 41
Mean 43.03
Std Dev 5.547
pull1D
Entries 41
Mean −0.09752
Std Dev 1.346

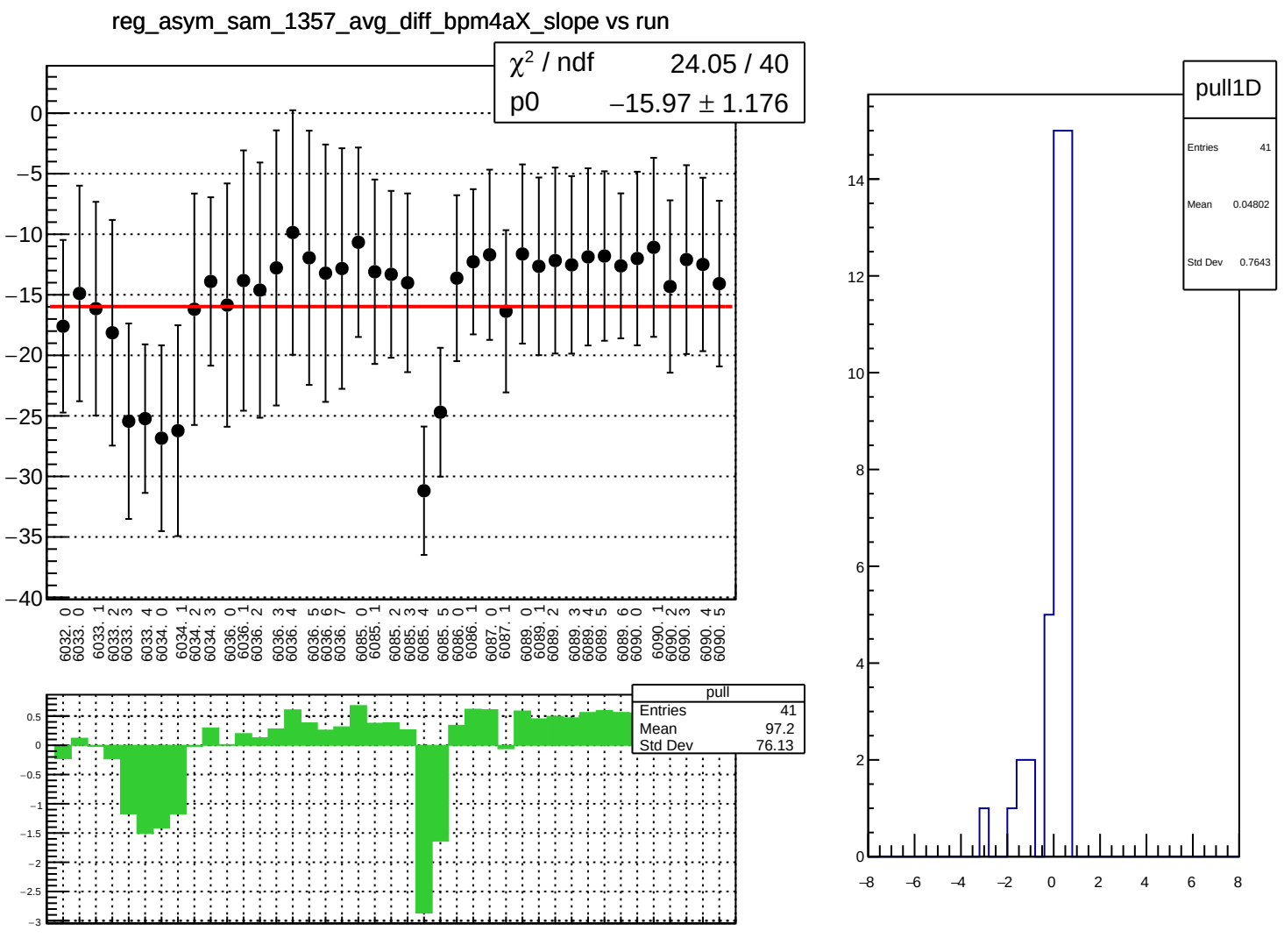

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.28 / 40
p0 14.46 ± 0.7572
pull
Entries 41
Mean −74.95
Std Dev 108.1

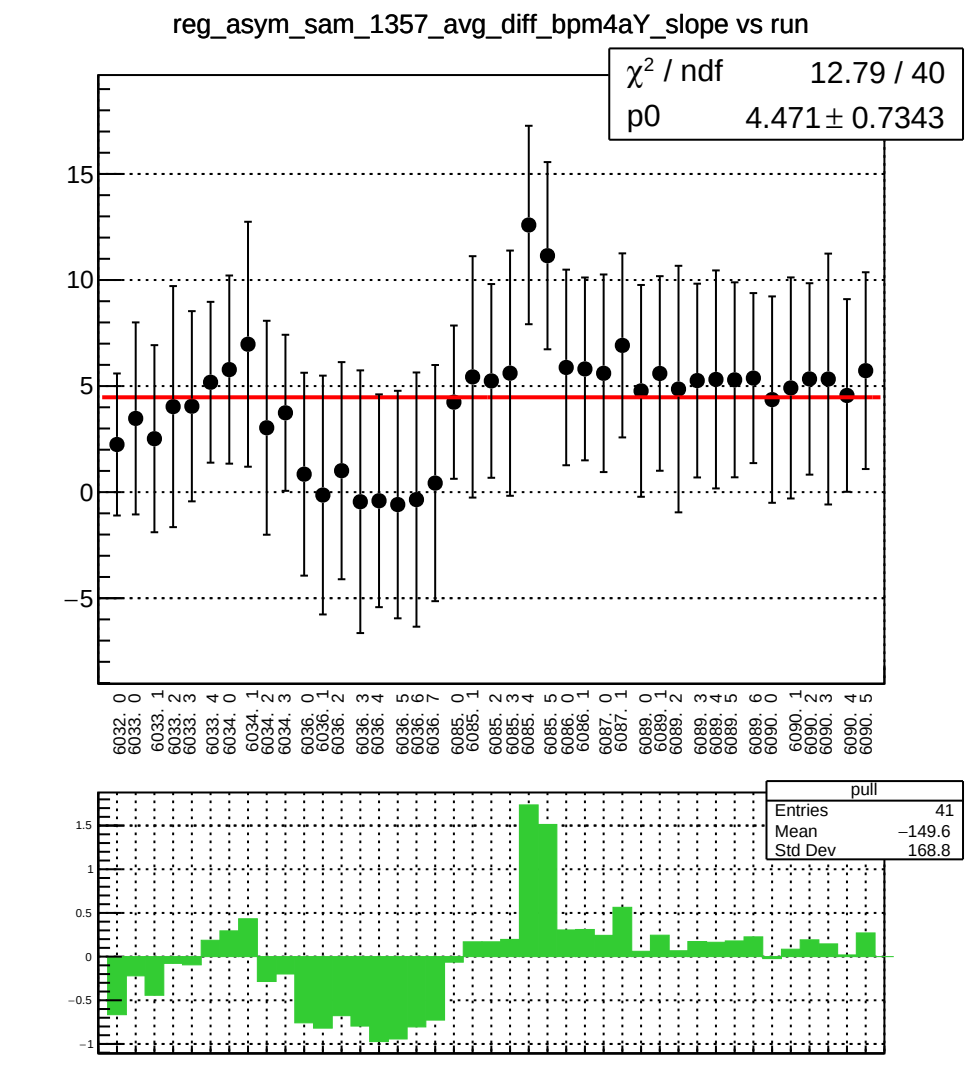

pull1D
Entries 41
Mean −0.006322
Std Dev 0.8594

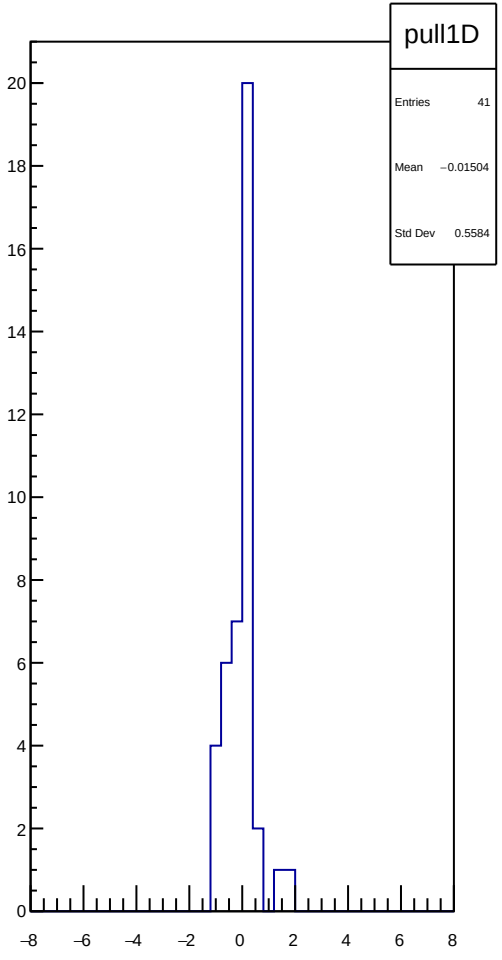

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.58 / 40
p0 19.28 ± 1.421
pull
Entries 41
Mean 41.62
Std Dev 6.66
pull1D
Entries 41
Mean 0.08794
Std Dev 1.337

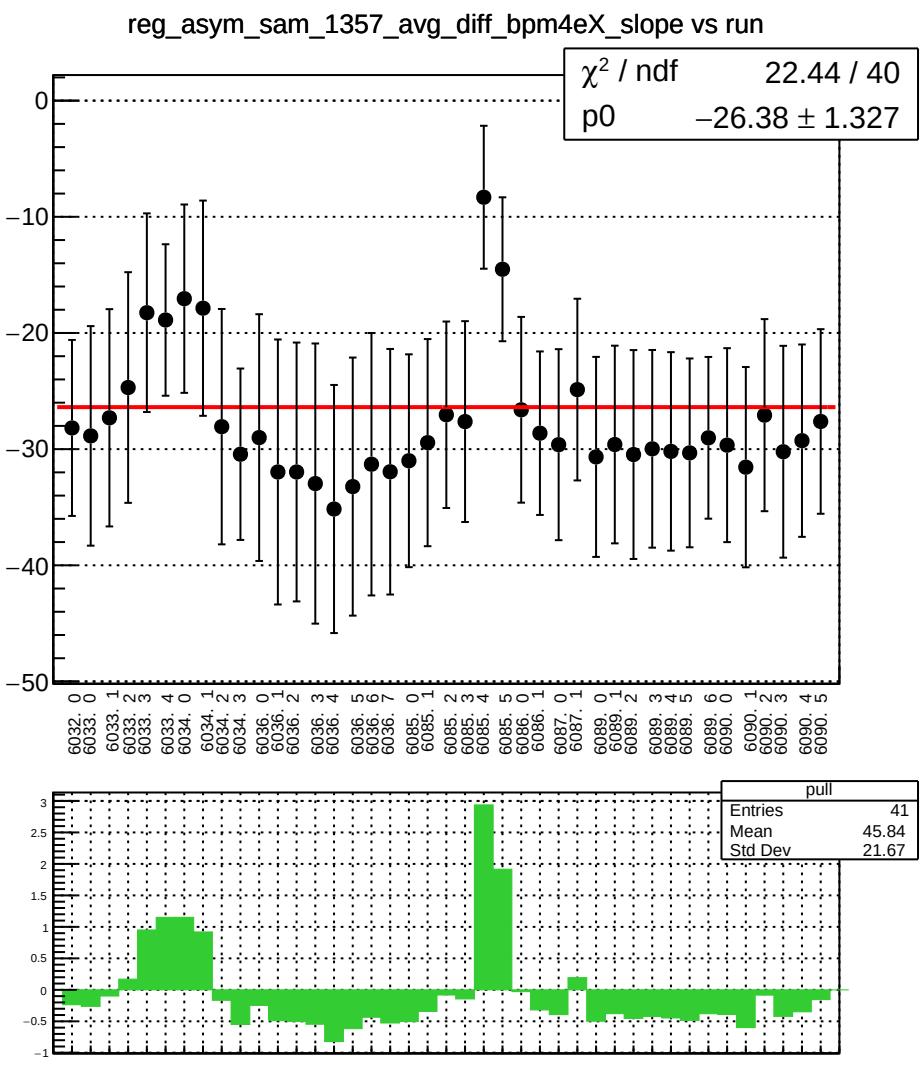

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.37 / 40
p0 −112.1 ± 0.8276
−90
−95
−100
−105
−110
−115
−120
−125
−130
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 97.95
Std Dev 55.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01009
Std Dev 0.8318
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

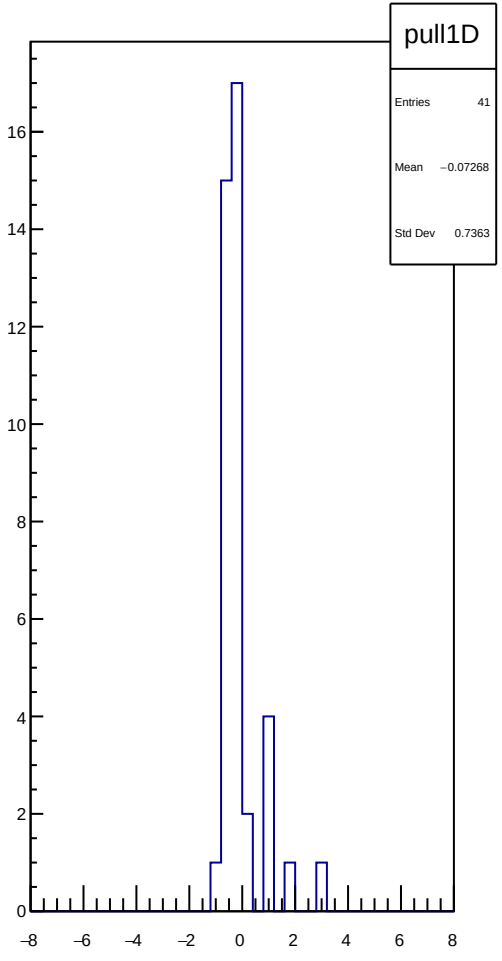

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 30.02 / 40
p0 0.4054 ± 0.06511
1.5
1
0.5
0
−0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 78.19
Std Dev 53.21
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.06323
Std Dev 0.8534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

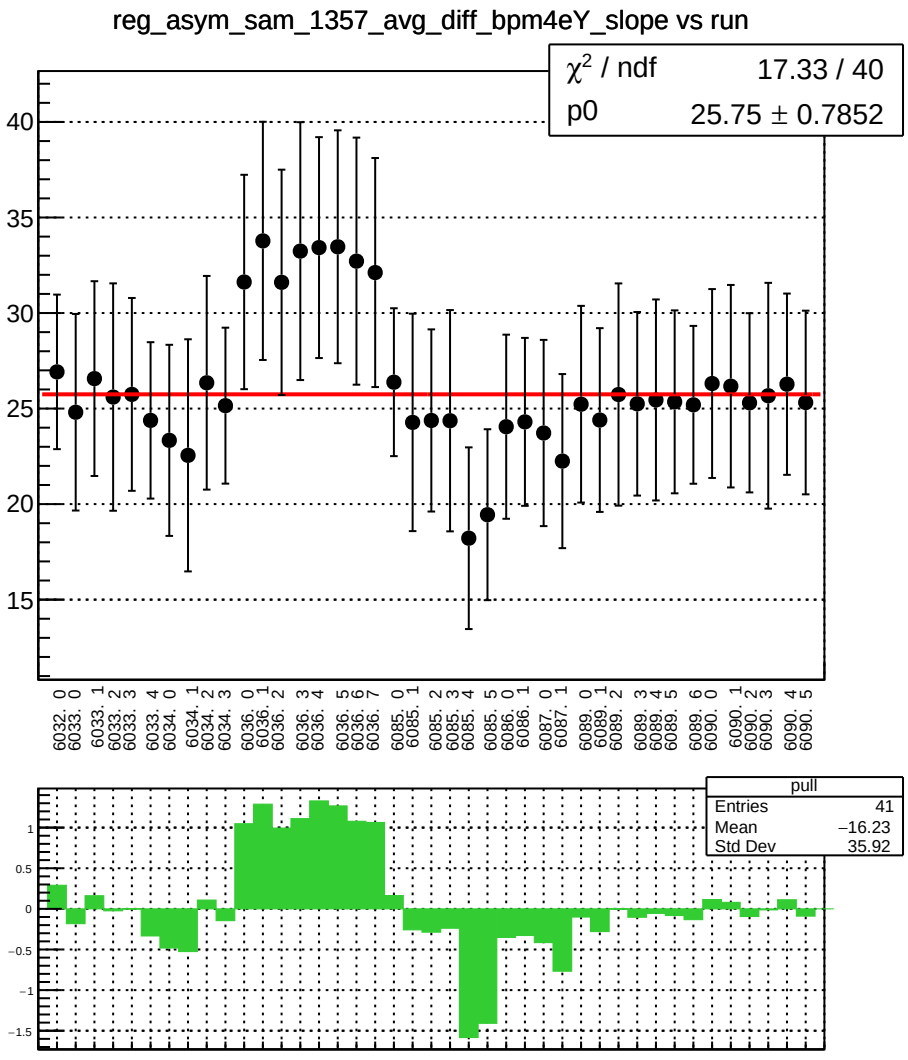

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.05 / 40
p0 −15.97 ± 1.176
pull
Entries 41
Mean 97.2
Std Dev 76.13
pull1D
Entries 41
Mean 0.04802
Std Dev 0.7643

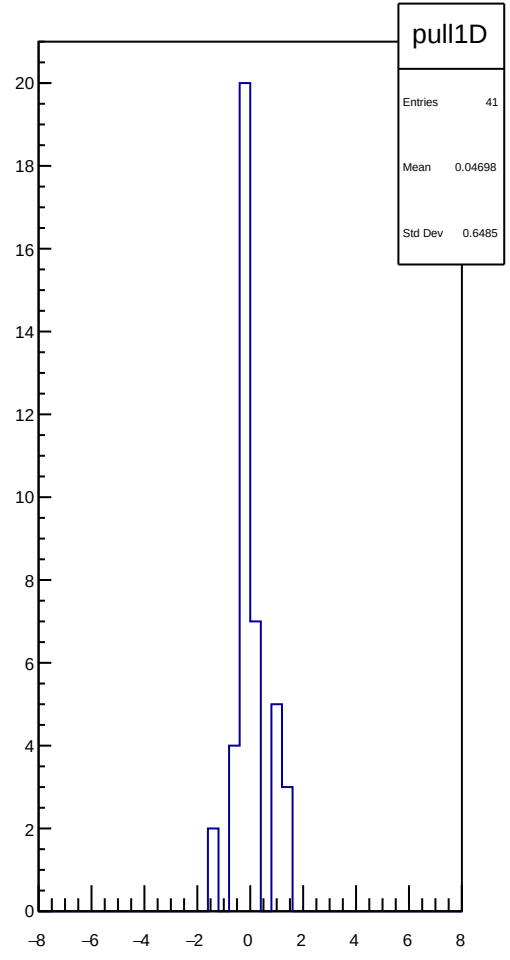

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.79 / 40
p0 4.471 ± 0.7343
15
10
5
0
−5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −149.6
Std Dev 168.8
1.5
1
0.5
0
−0.5
−1

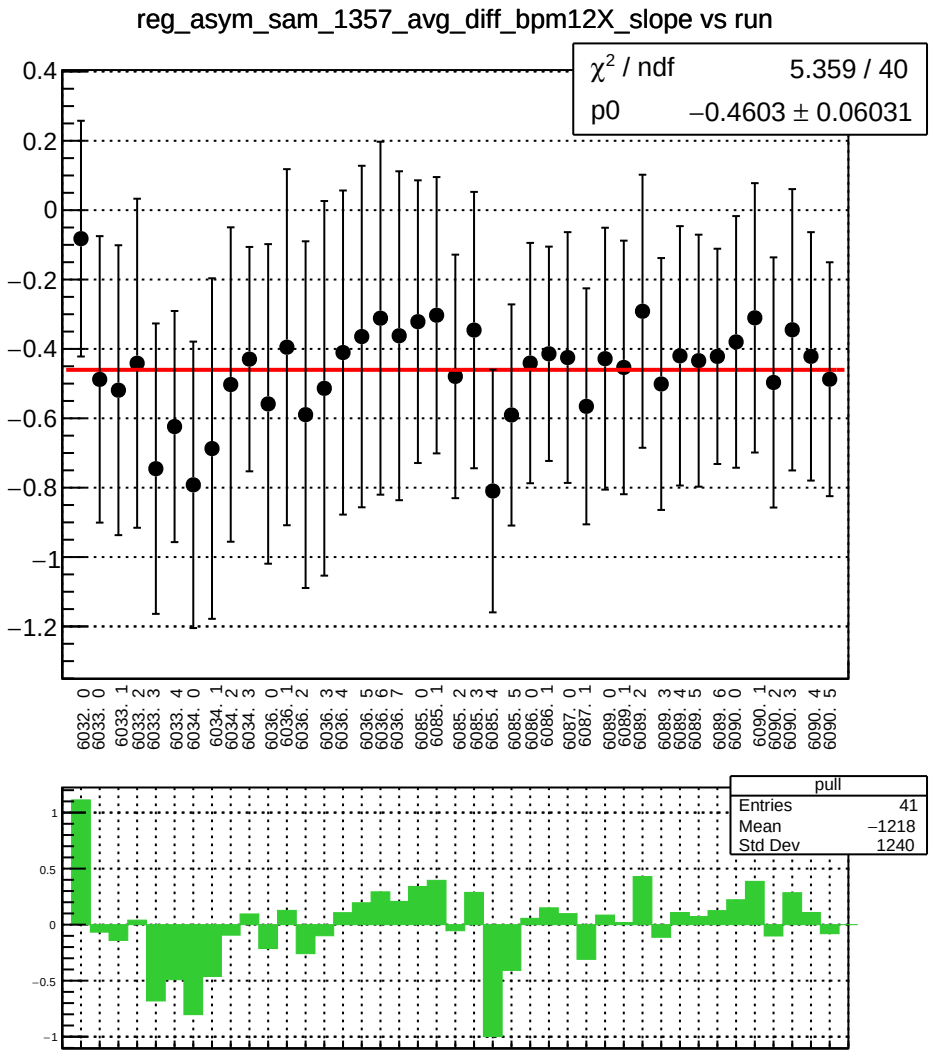

pull1D
Entries 41
Mean −0.01504
Std Dev 0.5584
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

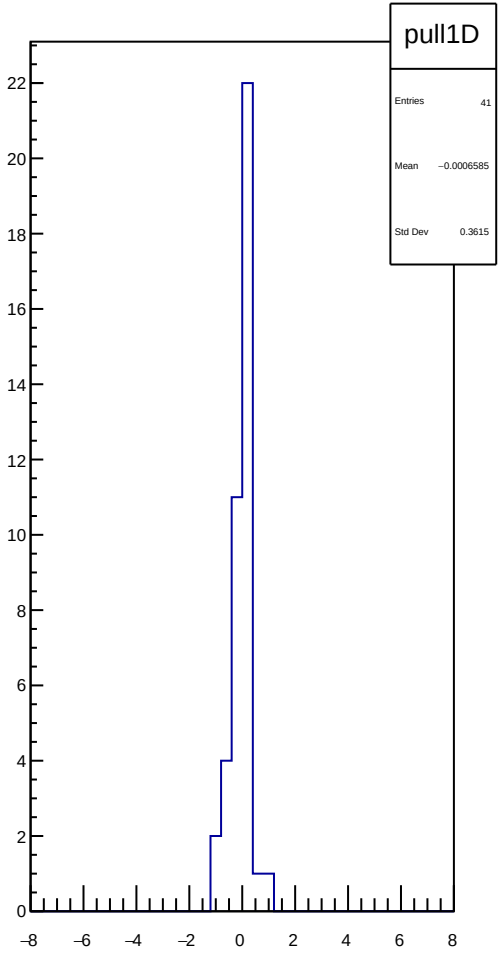

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.44 / 40
p0 −26.38 ± 1.327
pull
Entries 41
Mean 45.84
Std Dev 21.67

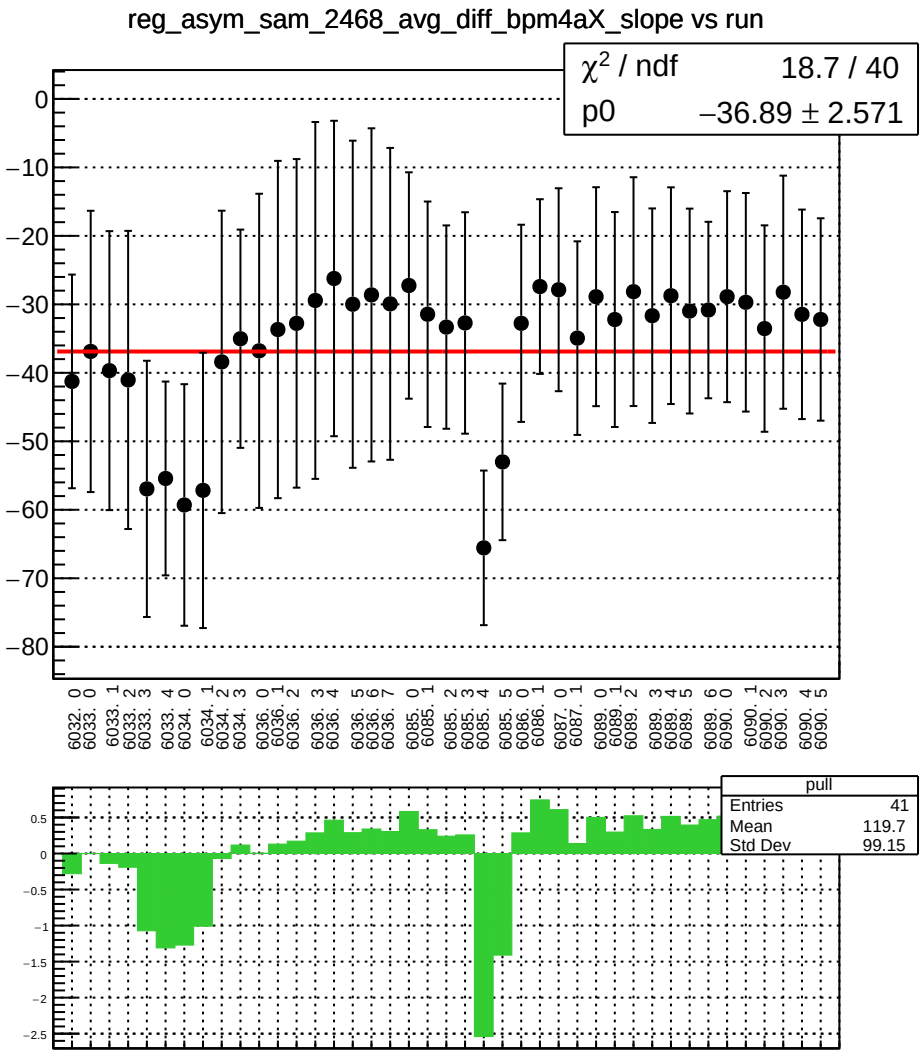

pull1D
Entries 41
Mean −0.07268
Std Dev 0.7363

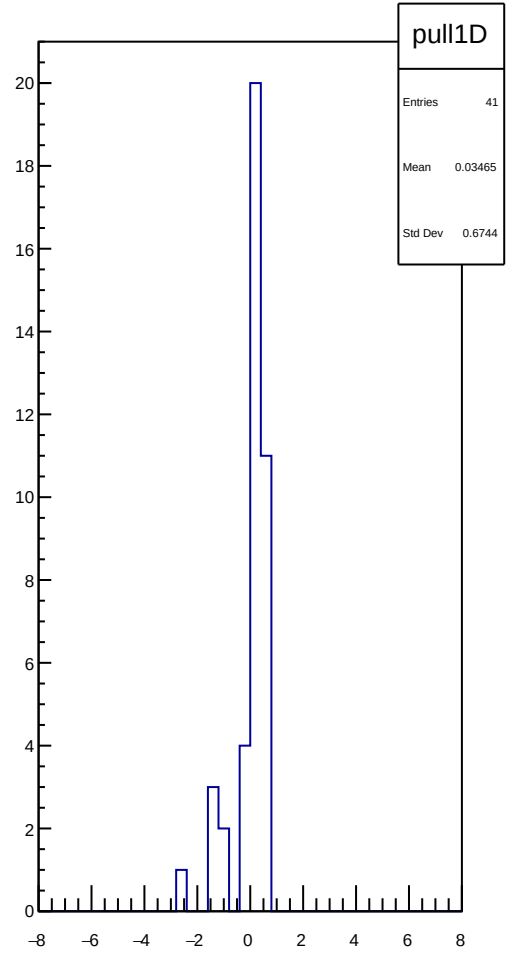

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.33 / 40
p0 25.75 ± 0.7852
pull
Entries 41
Mean −16.23
Std Dev 35.92

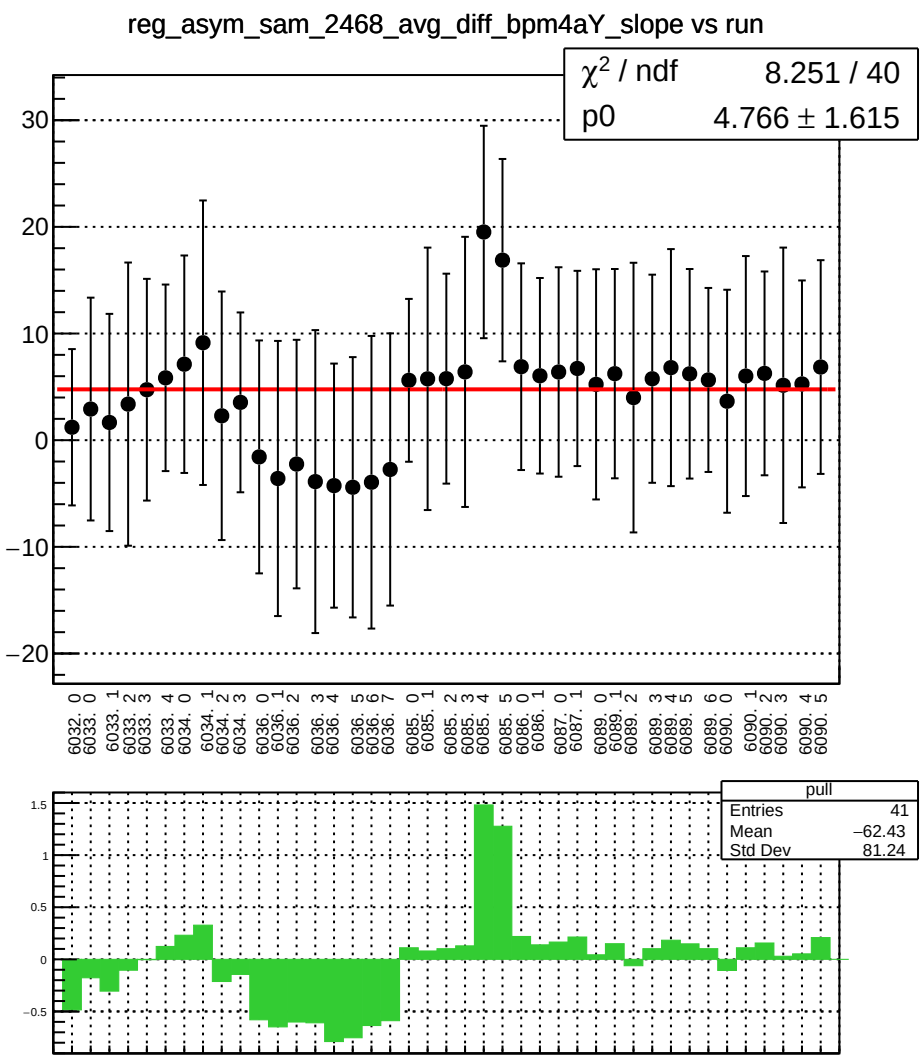

pull1D
Entries 41
Mean 0.04698
Std Dev 0.6485

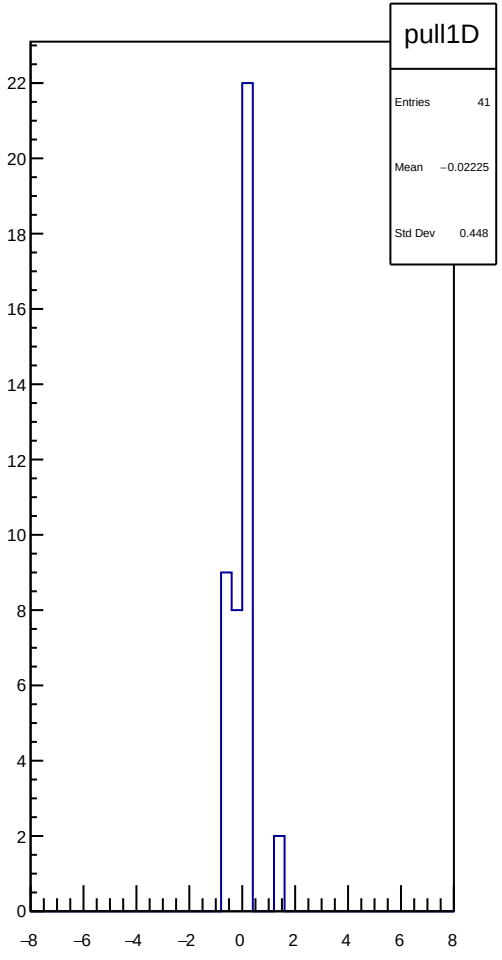

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 5.359 / 40
p0 −0.4603 ± 0.06031
pull
Entries 41
Mean −1218
Std Dev 1240

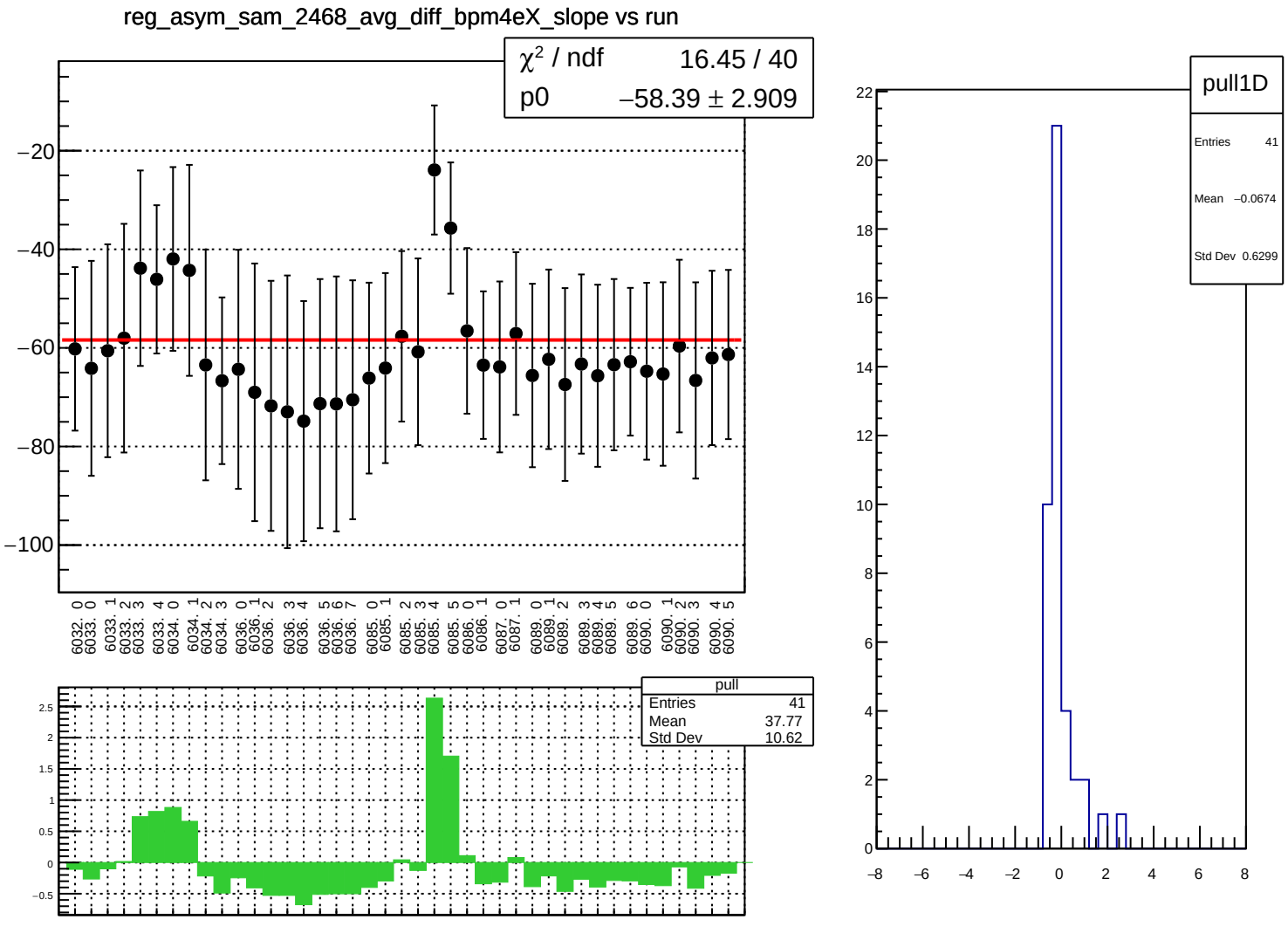

pull1D
Entries 41
Mean −0.0006585
Std Dev 0.3615


reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.7 / 40
p0 −36.89 ± 2.571
pull
Entries 41
Mean 119.7
Std Dev 99.15


pull1D
Entries 41
Mean 0.03465
Std Dev 0.6744


reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.251 / 40
p0 4.766 ± 1.615
pull
Entries 41
Mean −62.43
Std Dev 81.24


pull1D
Entries 41
Mean −0.02225
Std Dev 0.448


reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.45 / 40
p0 −58.39 ± 2.909
−20
−40
−60
−80
−100
6032. 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
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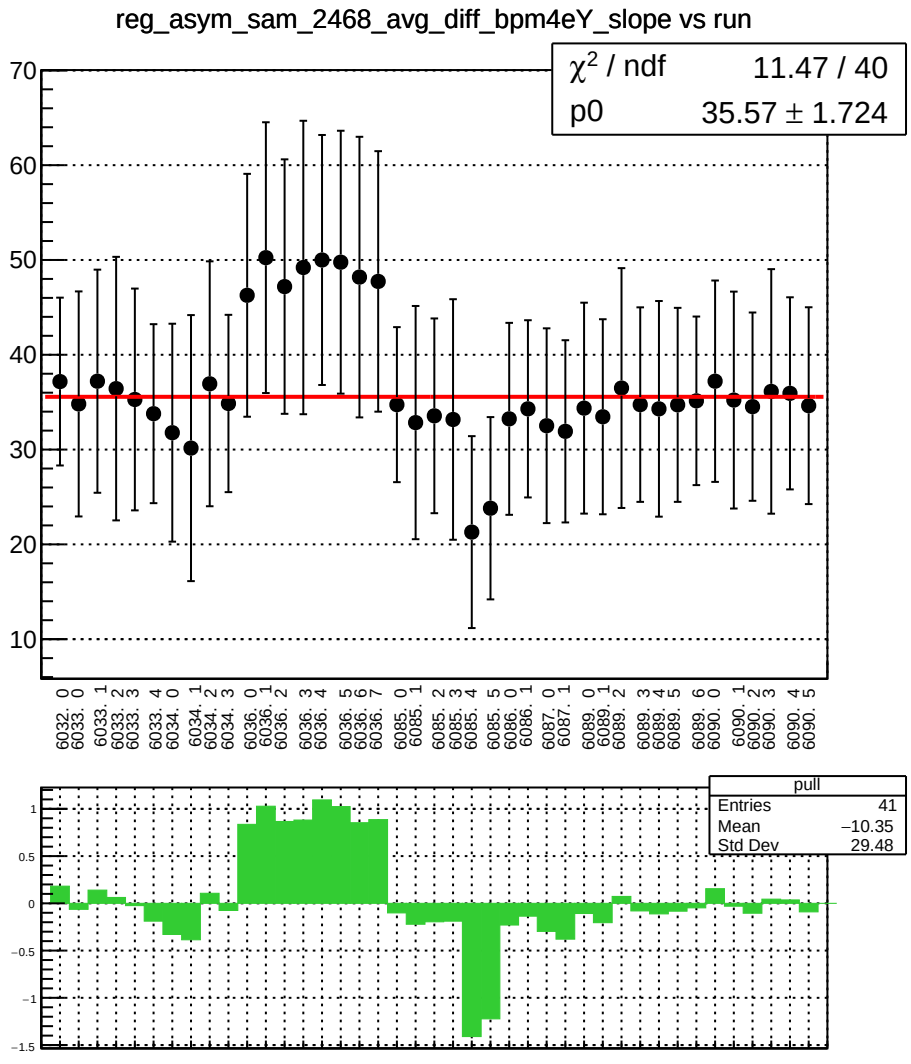
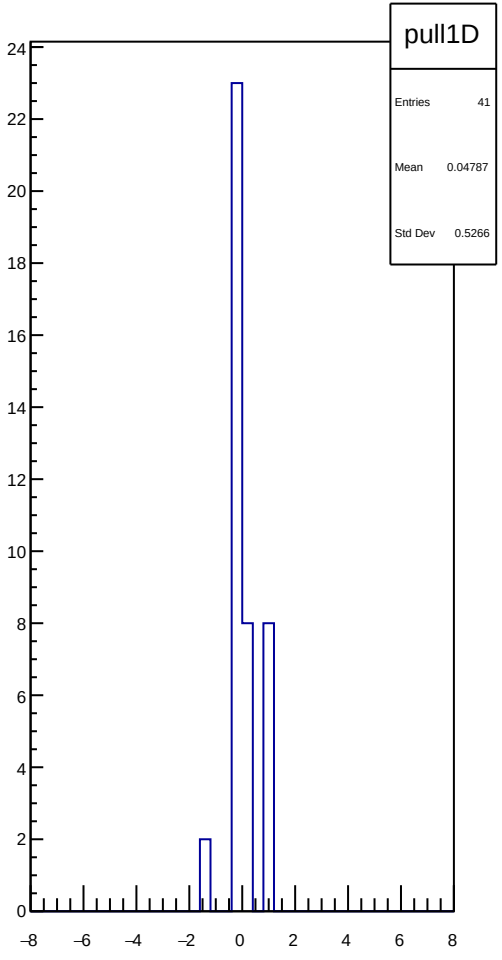
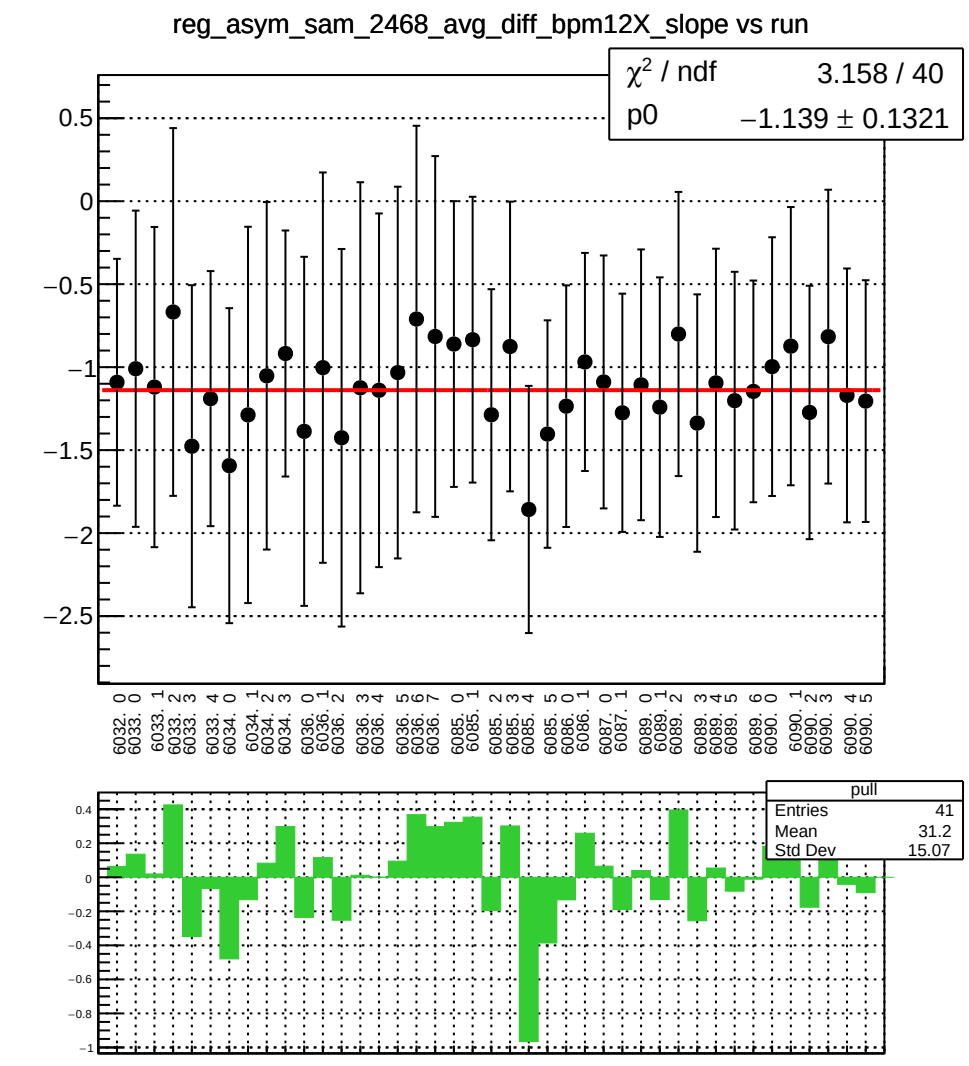
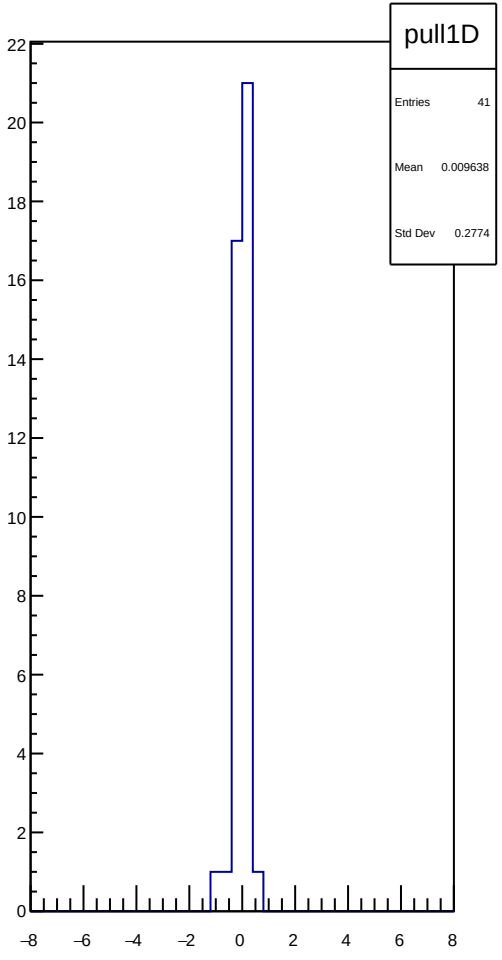
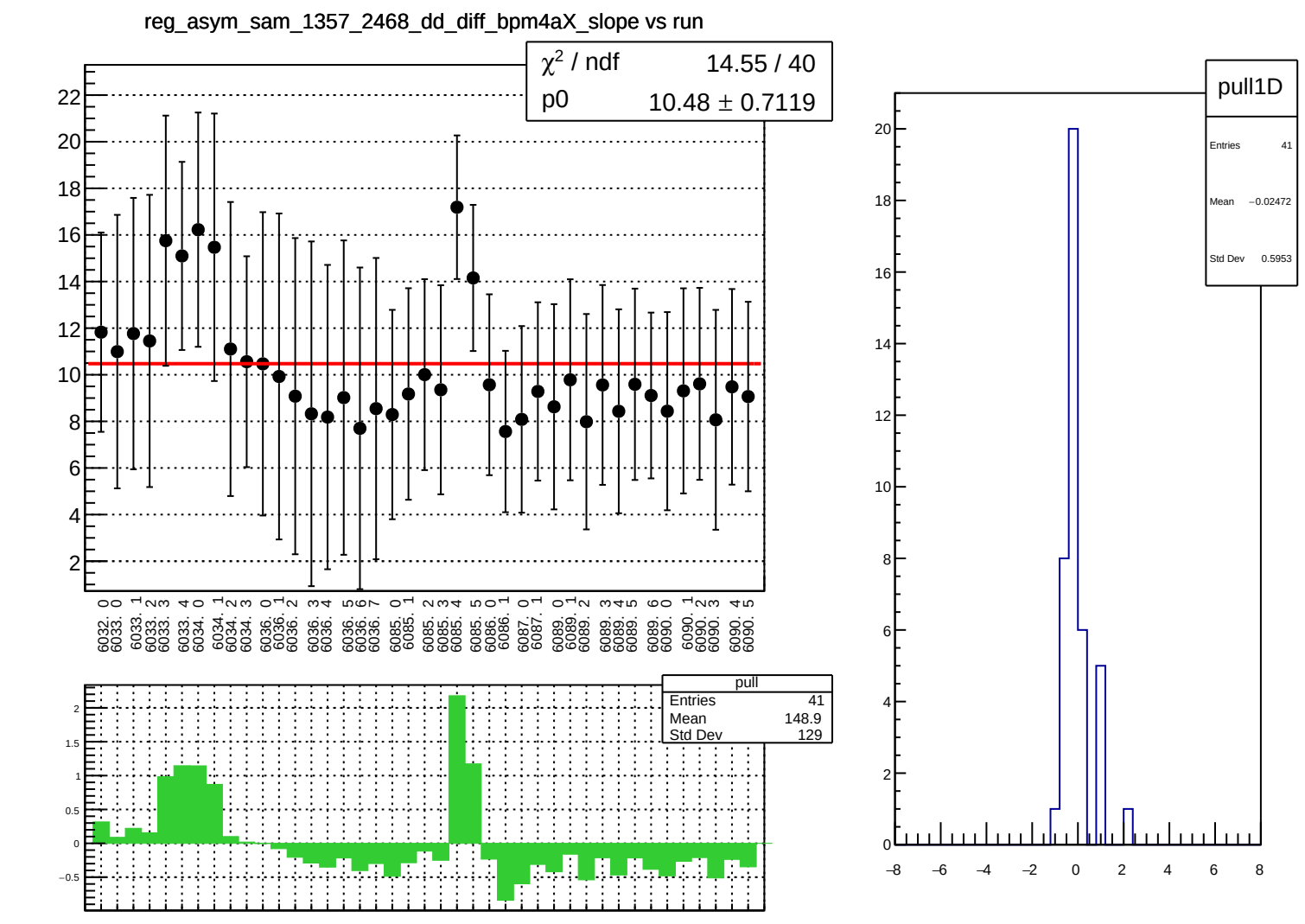
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 37.77
Std Dev 10.62
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 41
Mean −0.0674
Std Dev 0.6299
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

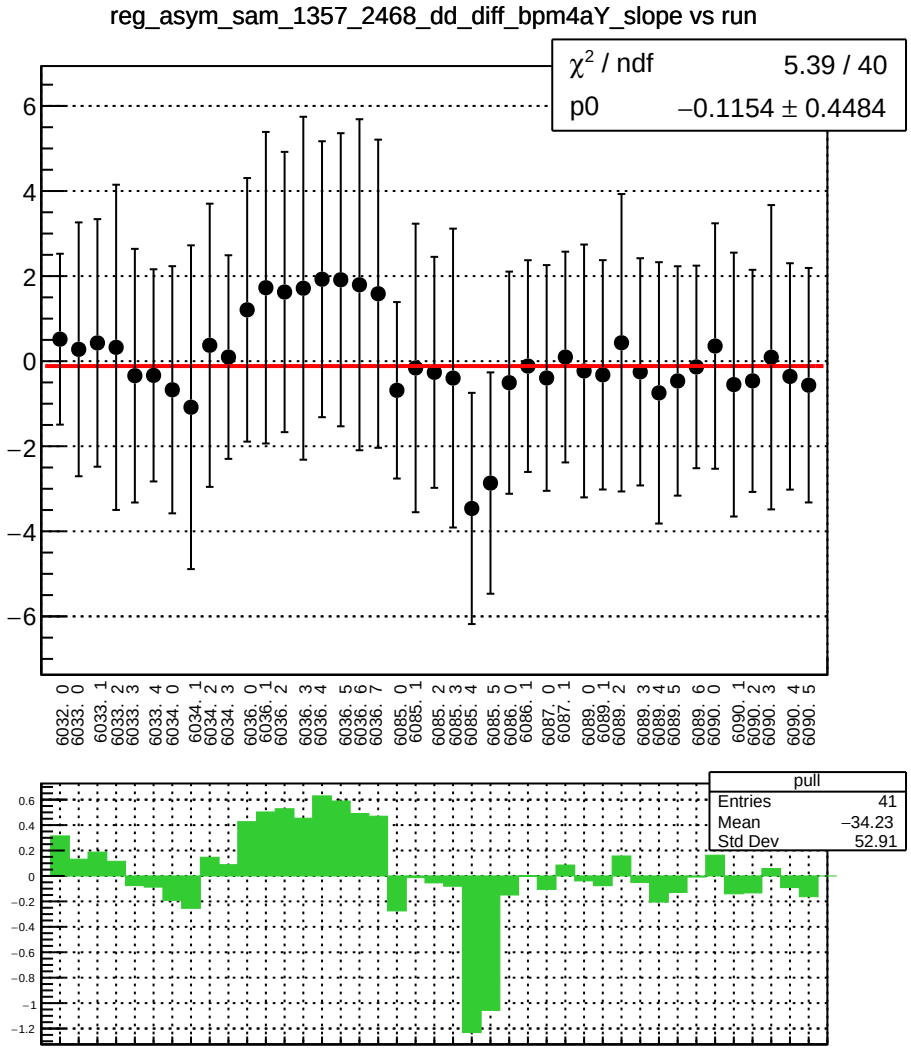

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 11.47 / 40
p0 35.57 ± 1.724
pull
Entries 41
Mean −10.35
Std Dev 29.48

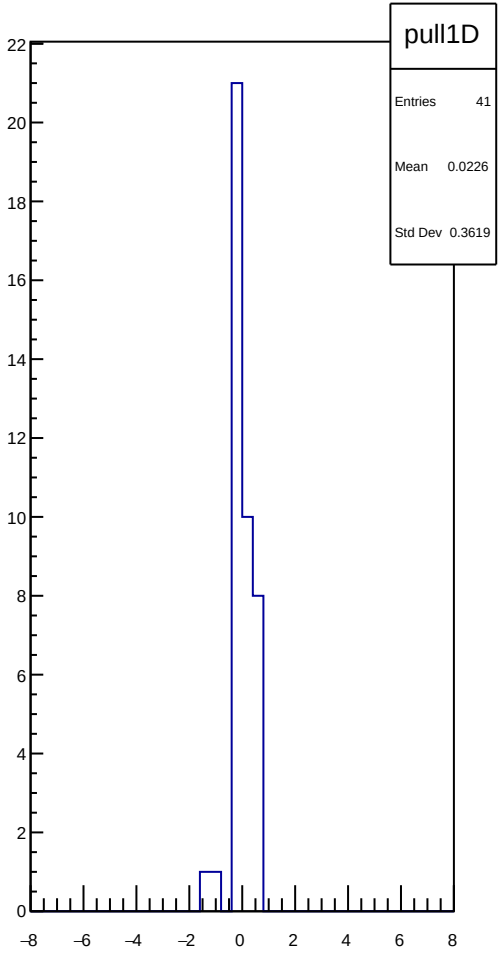

pull1D
Entries 41
Mean 0.04787
Std Dev 0.5266

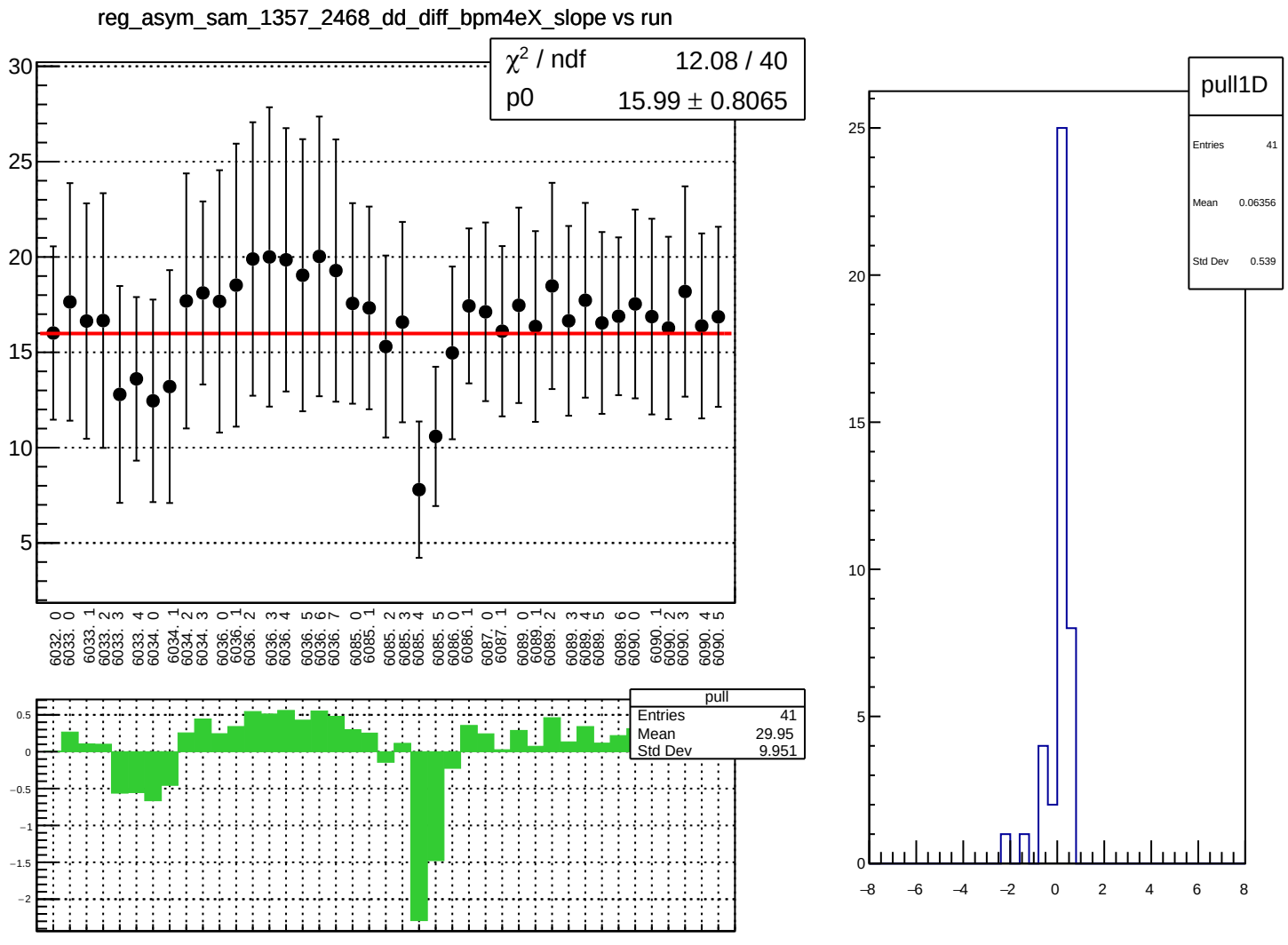

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.158 / 40
p0 −1.139 ± 0.1321
pull
Entries 41
Mean 31.2
Std Dev 15.07

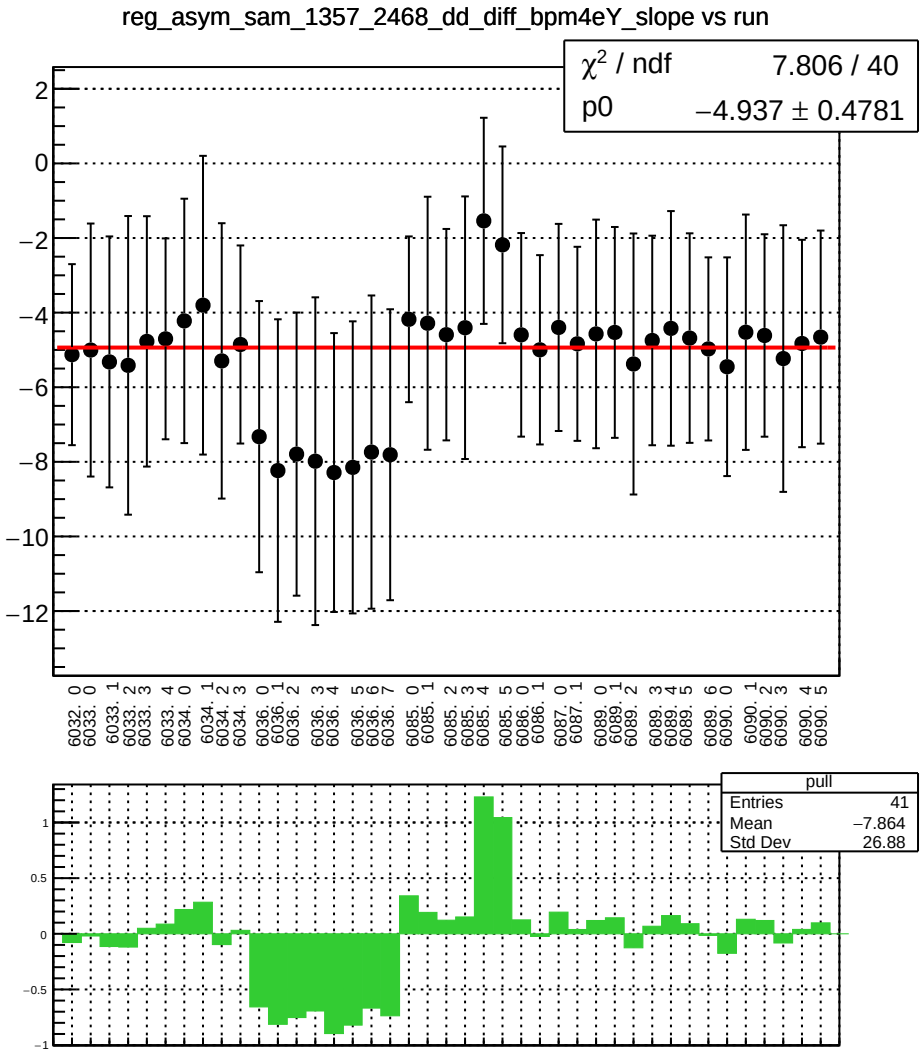

pull1D
Entries 41
Mean 0.009638
Std Dev 0.2774

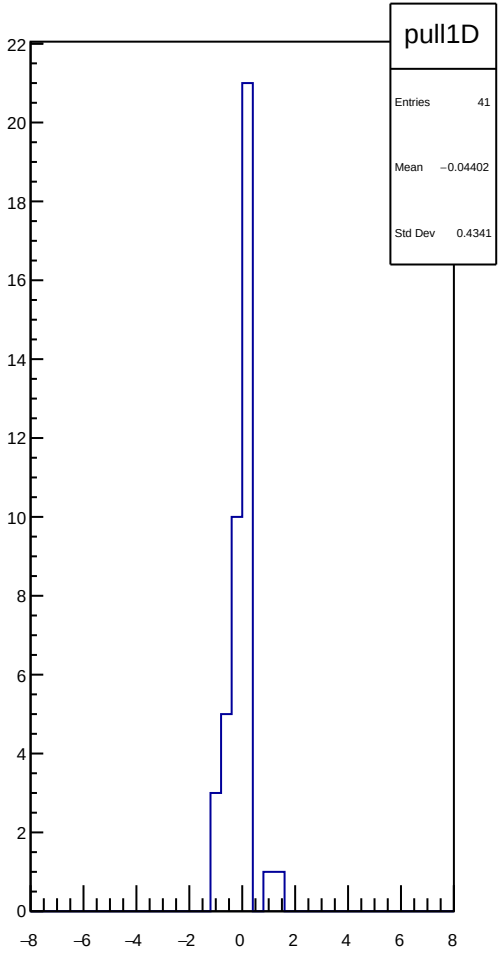

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.55 / 40
p0 10.48 ± 0.7119
pull
Entries 41
Mean 148.9
Std Dev 129
pull1D
Entries 41
Mean −0.02472
Std Dev 0.5953

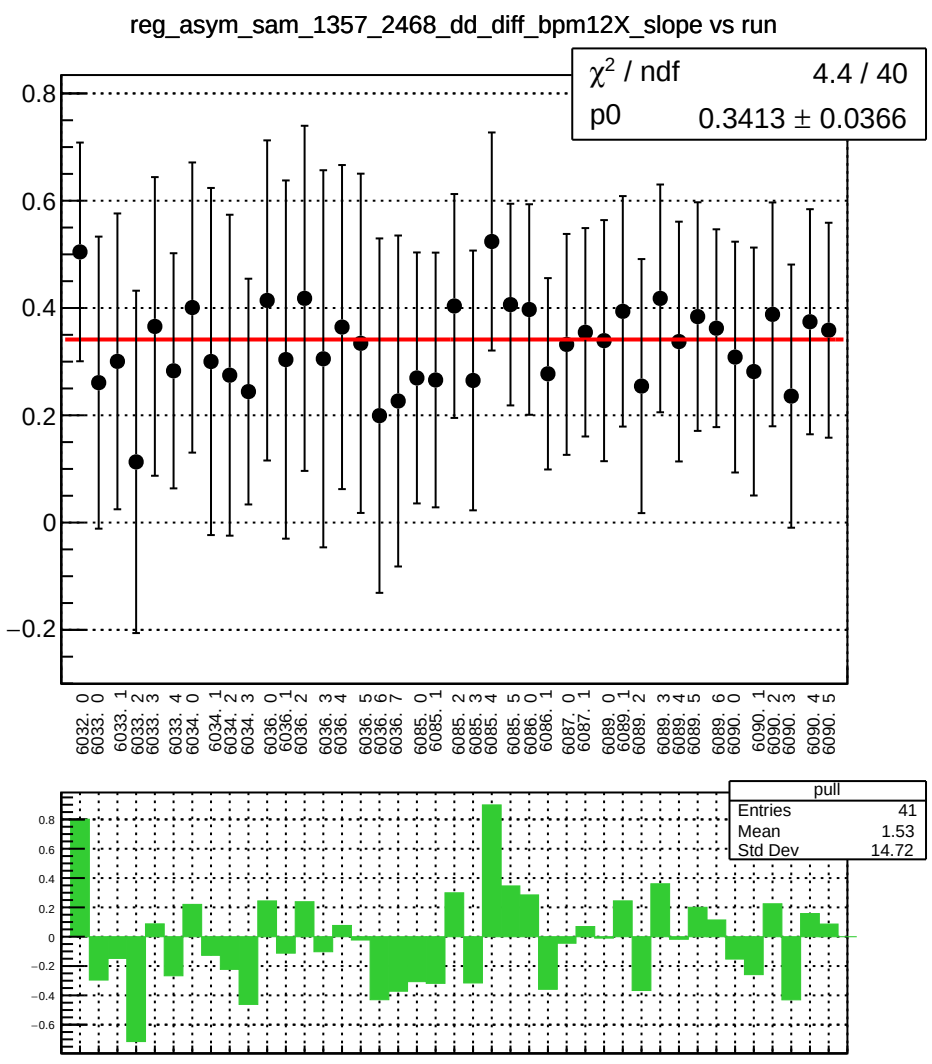

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.39 / 40
p0 −0.1154 ± 0.4484
pull
Entries 41
Mean −34.23
Std Dev 52.91

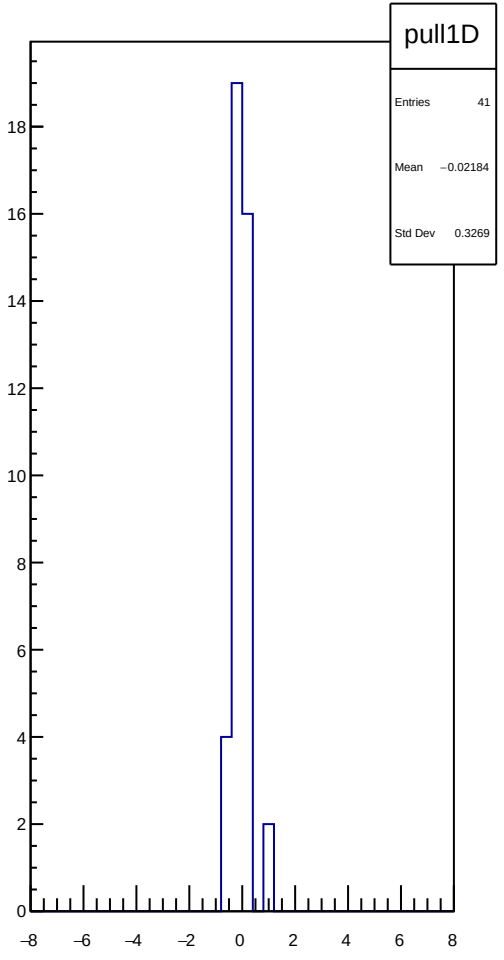

pull1D
Entries 41
Mean 0.0226
Std Dev 0.3619

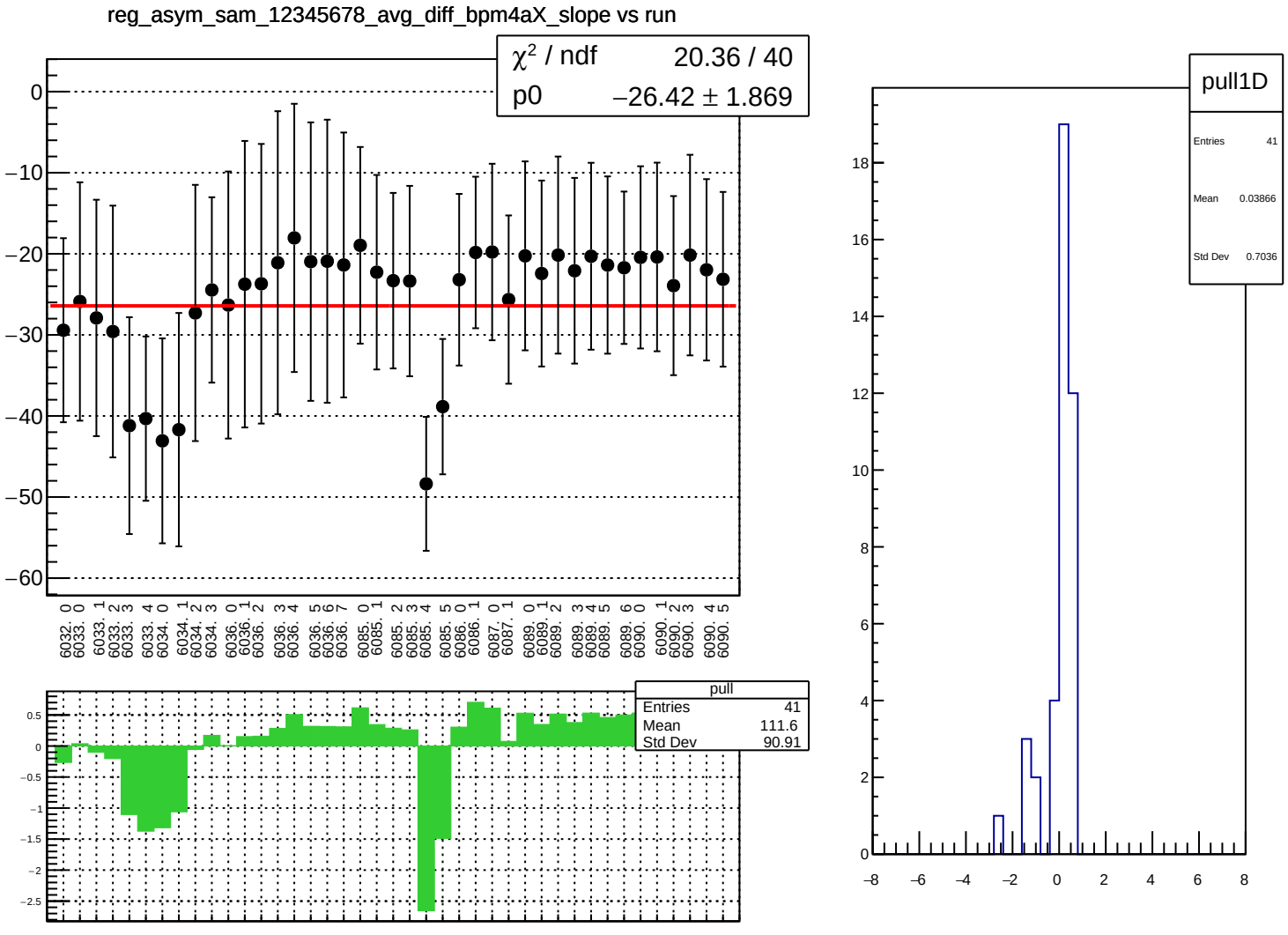

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.08 / 40
p0 15.99 ± 0.8065
pull
Entries 41
Mean 29.95
Std Dev 9.951
pull1D
Entries 41
Mean 0.06356
Std Dev 0.539

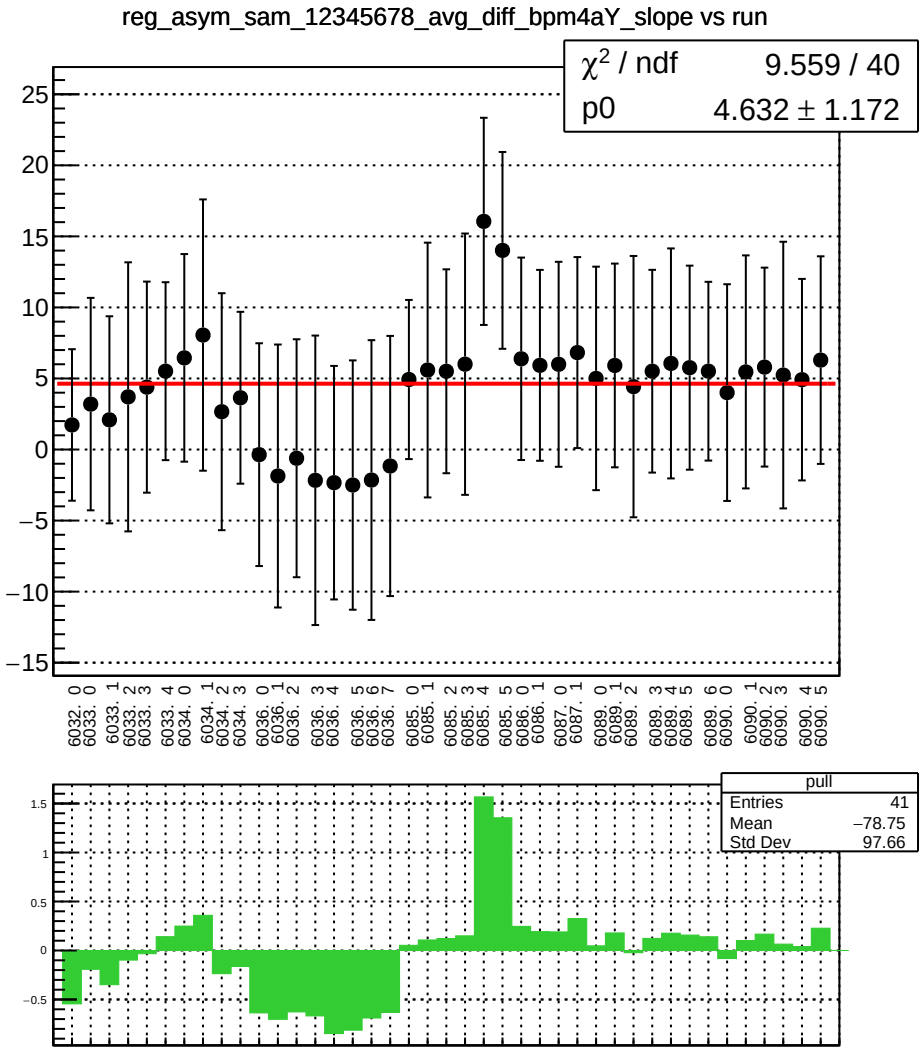

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.806 / 40
p0 −4.937 ± 0.4781
pull
Entries 41
Mean −7.864
Std Dev 26.88

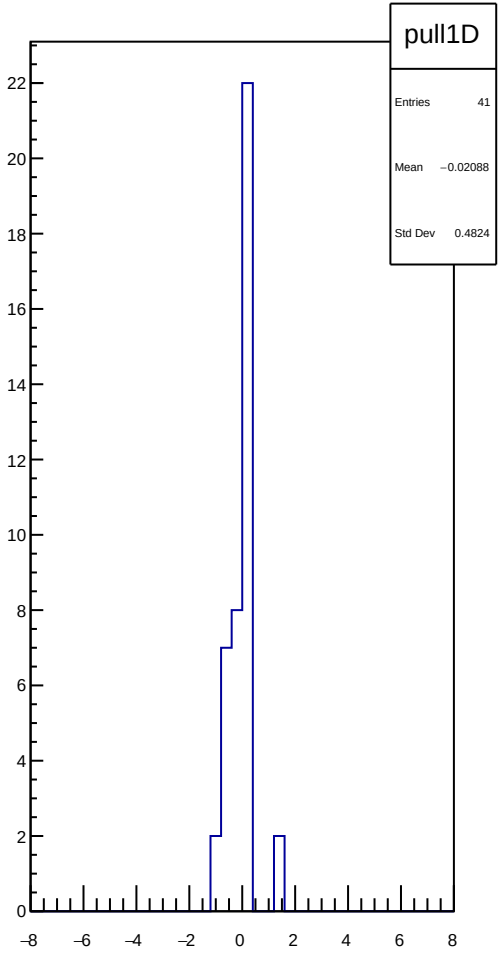

pull1D
Entries 41
Mean −0.04402
Std Dev 0.4341

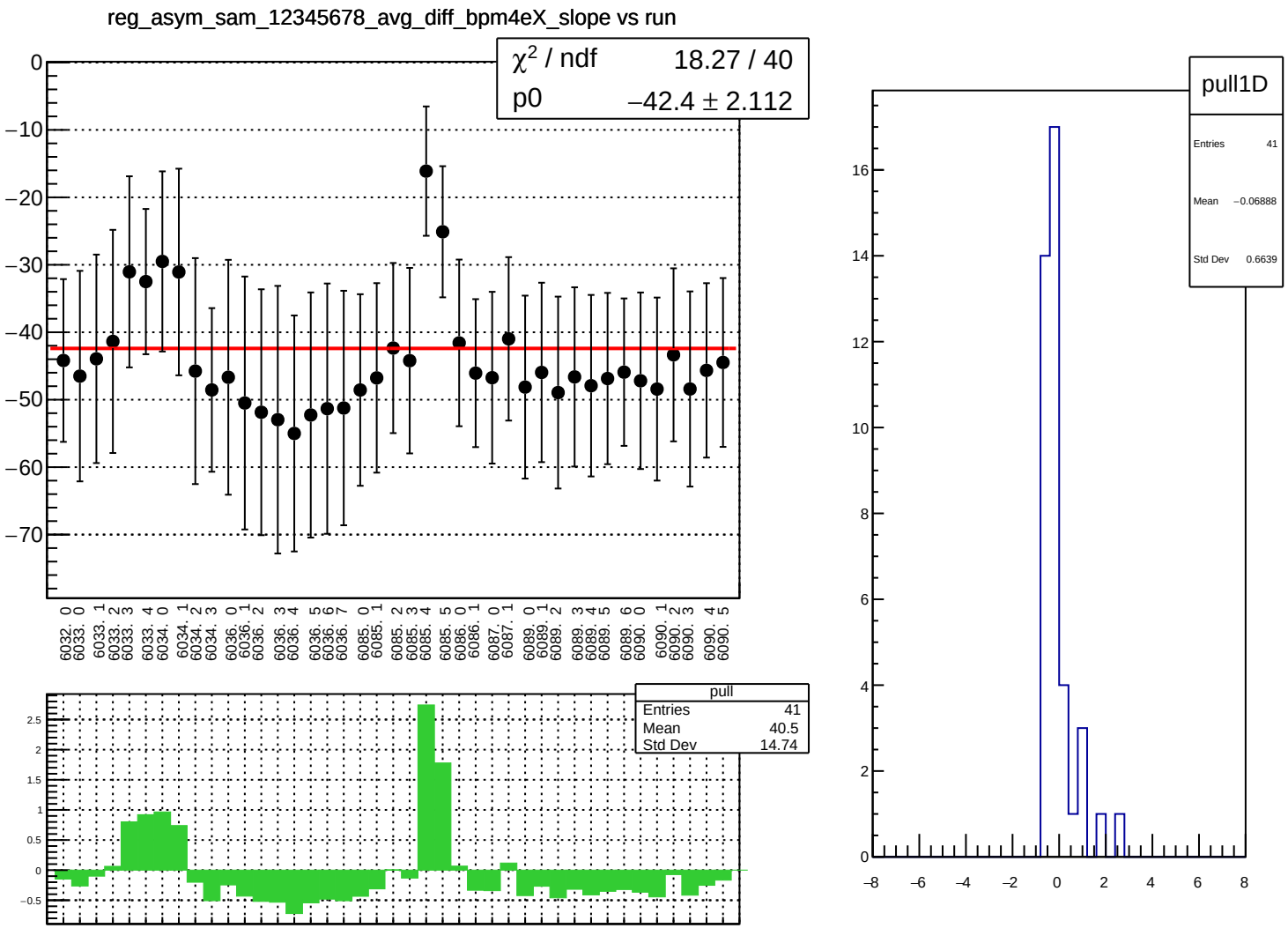

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.4 / 40
p0 0.3413 ± 0.0366
0.8
0.6
0.4
0.2
0
−0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 1.53
Std Dev 14.72
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

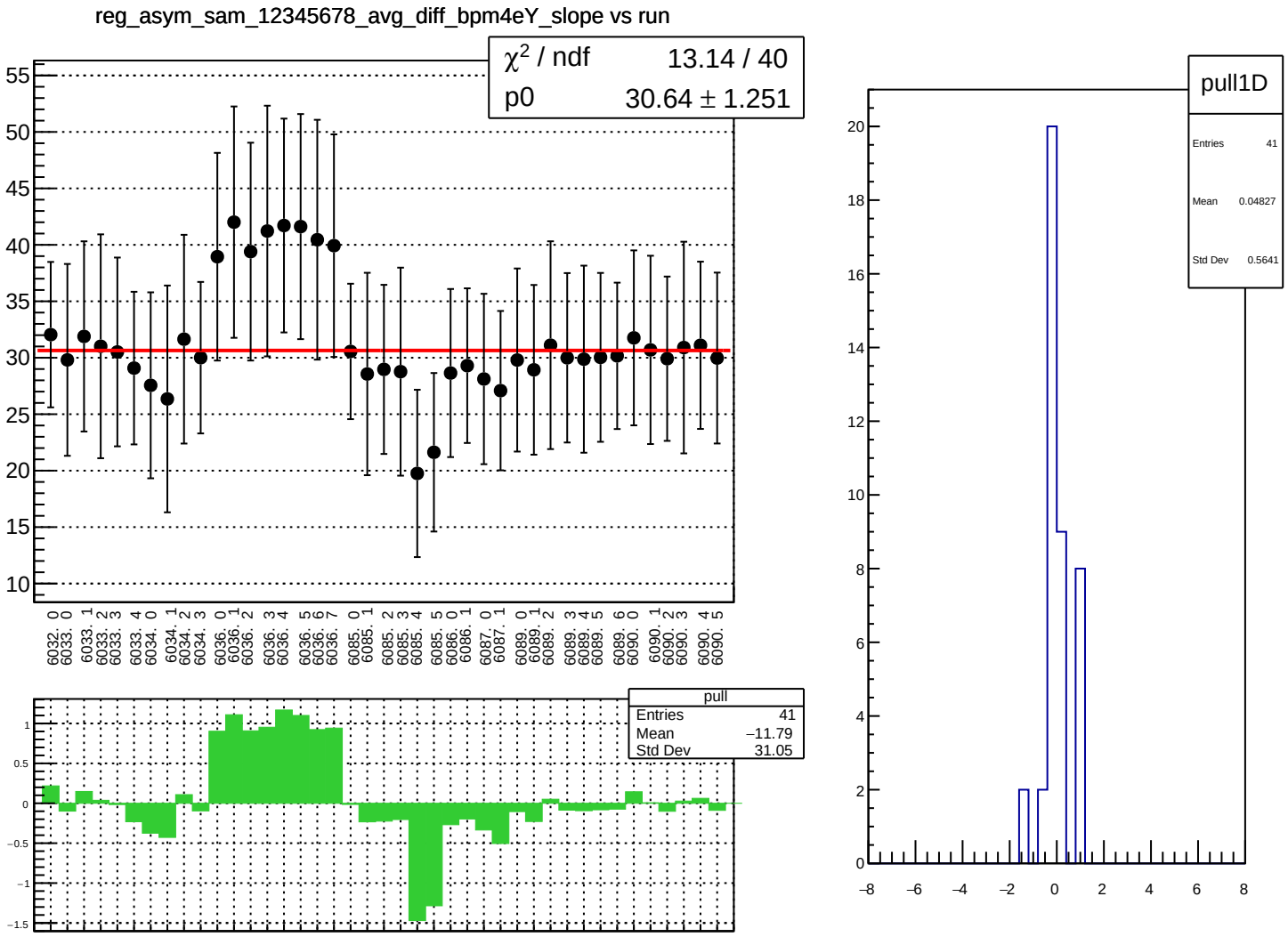

pull1D
Entries 41
Mean −0.02184
Std Dev 0.3269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

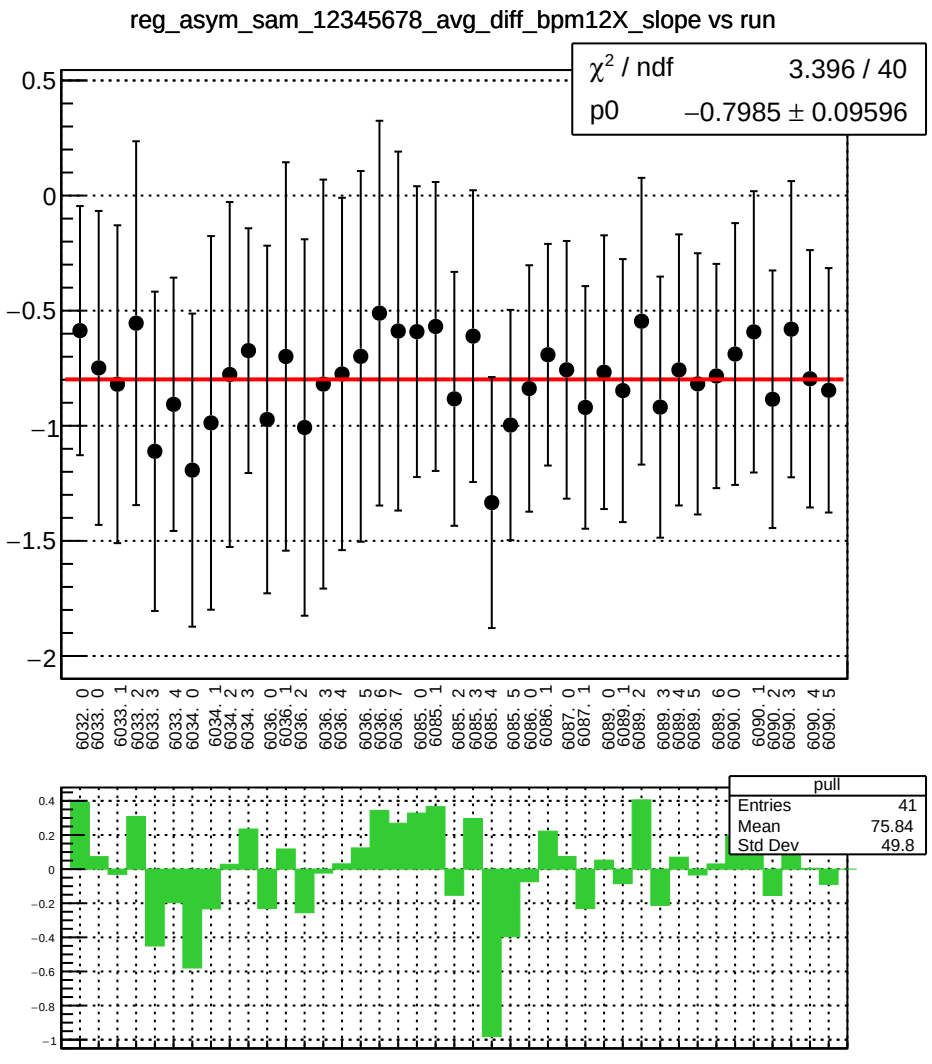

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.36 / 40
p0 −26.42 ± 1.869
0
−10
−20
−30
−40
−50
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 111.6
Std Dev 90.91
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.03866
Std Dev 0.7036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

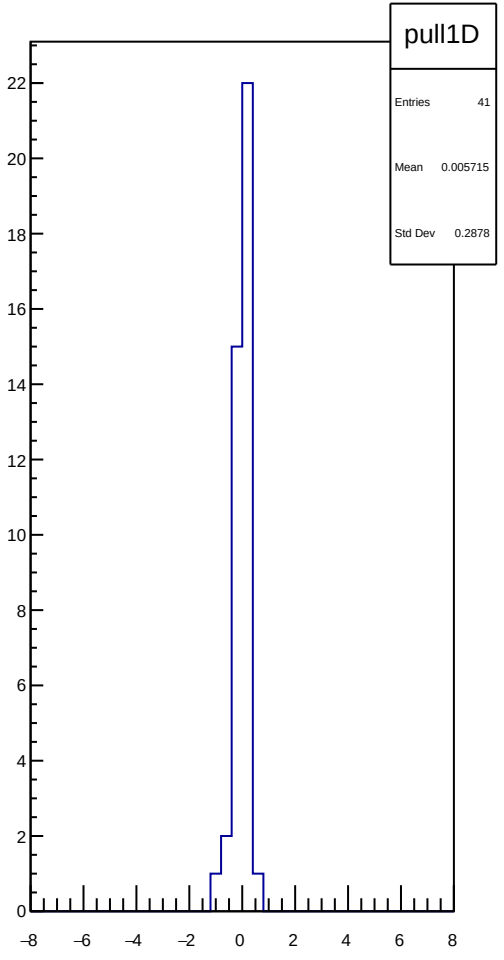

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.559 / 40
p0 4.632 ± 1.172
pull
Entries 41
Mean −78.75
Std Dev 97.66

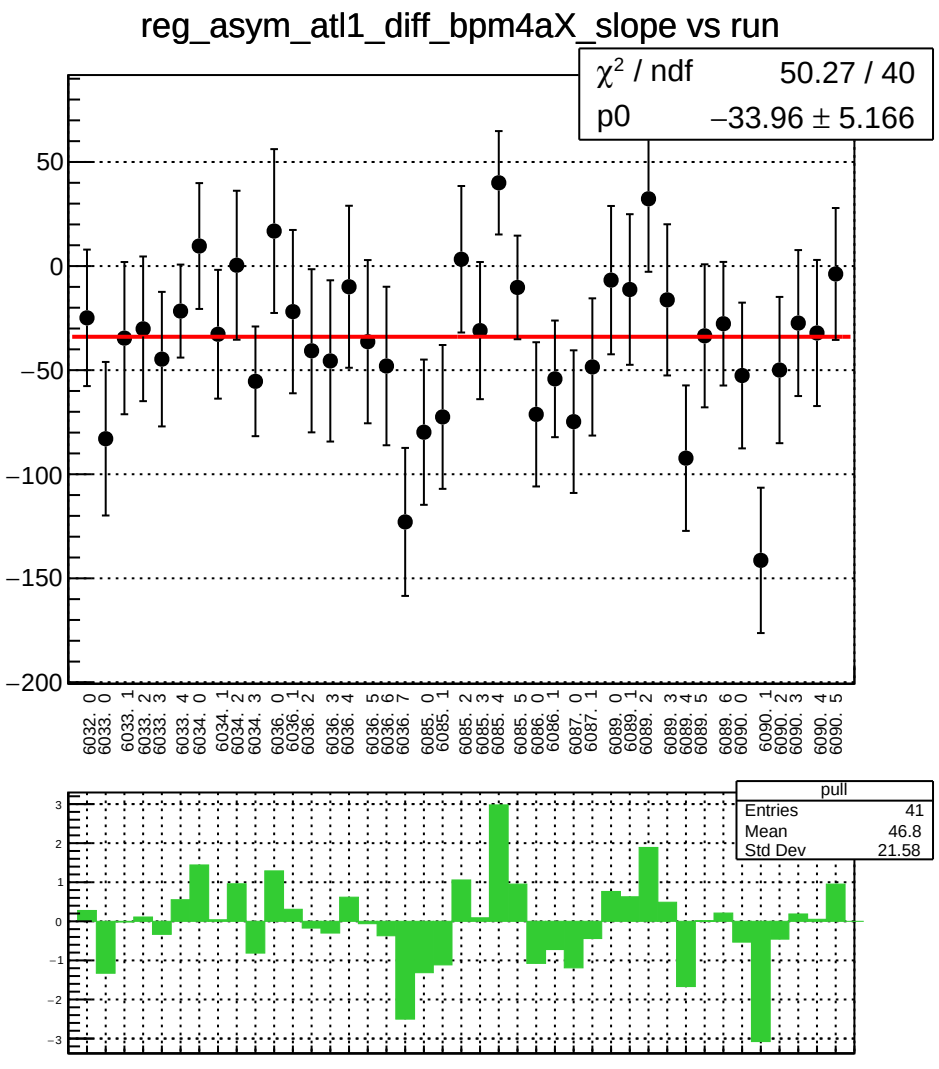

pull1D
Entries 41
Mean −0.02088
Std Dev 0.4824

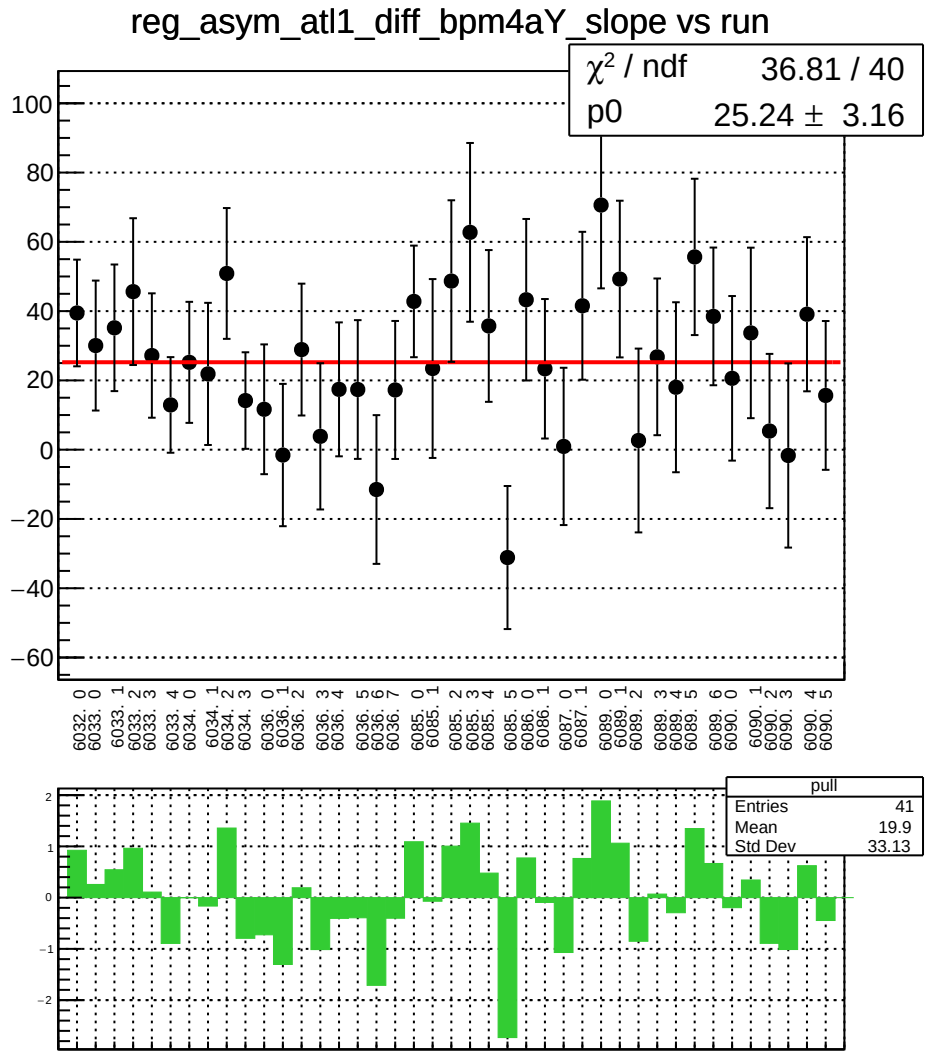

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.27 / 40
p0 −42.4 ± 2.112
0
−10
−20
−30
−40
−50
−60
−70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 40.5
Std Dev 14.74
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 41
Mean −0.06888
Std Dev 0.6639
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

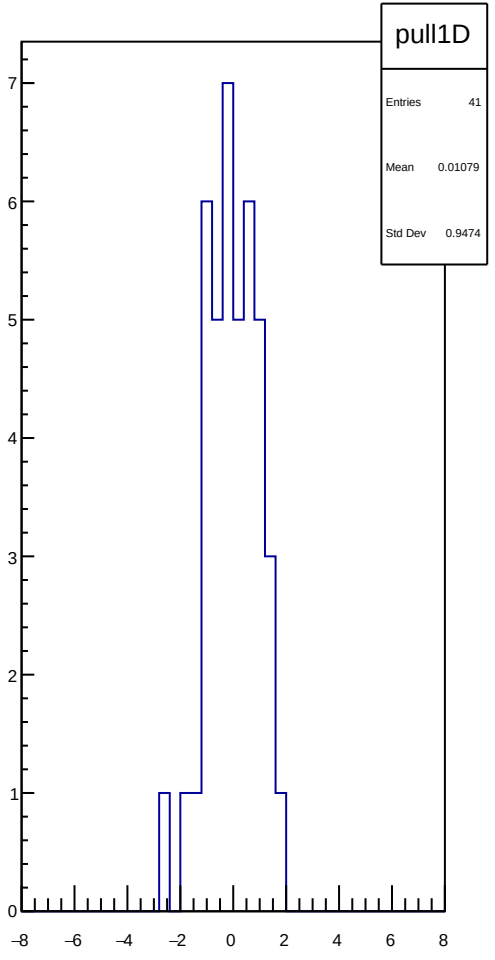

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.14 / 40
p0 30.64 ± 1.251
pull
Entries 41
Mean −11.79
Std Dev 31.05
pull1D
Entries 41
Mean 0.04827
Std Dev 0.5641

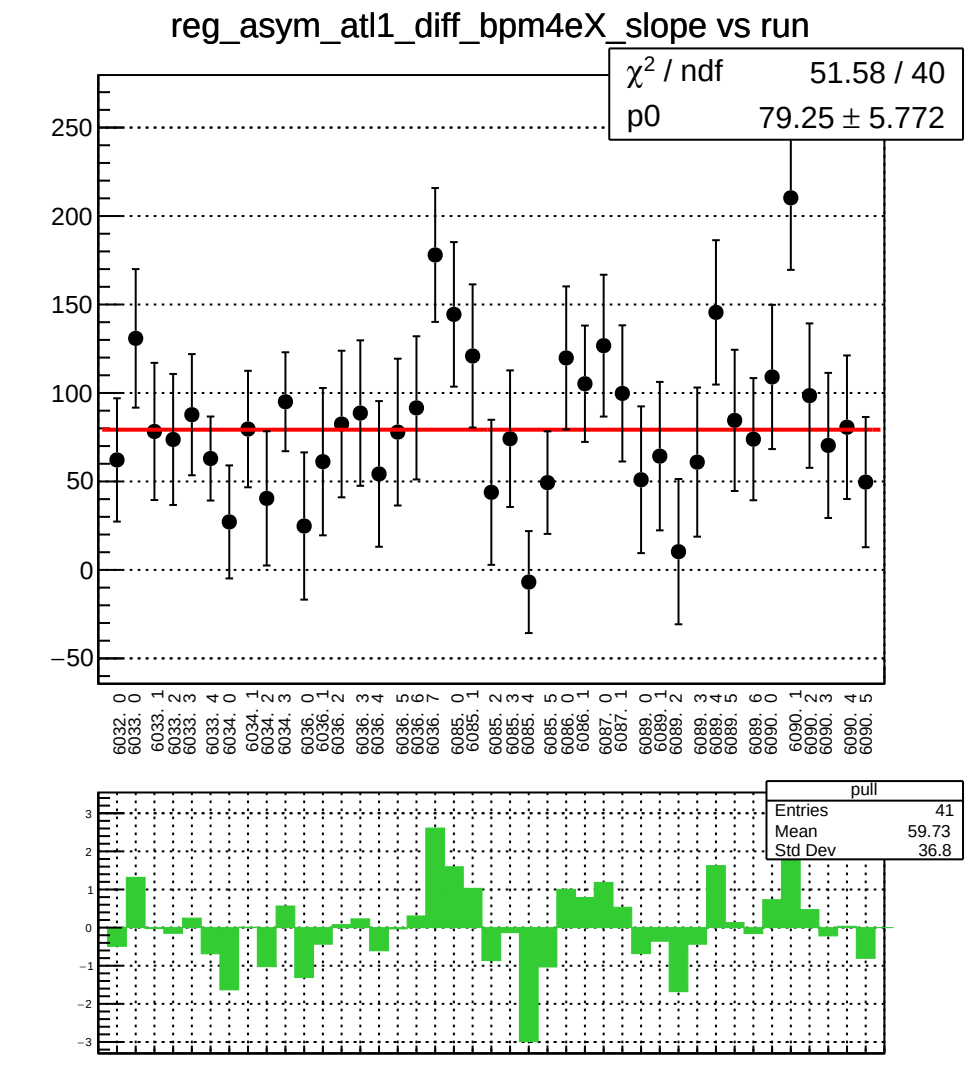

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.396 / 40
p0 −0.7985 ± 0.09596
pull
Entries 41
Mean 75.84
Std Dev 49.8

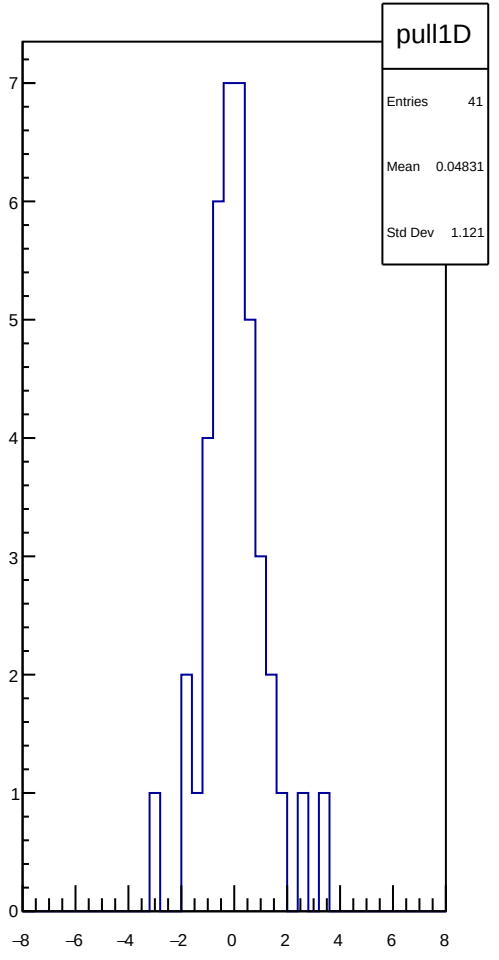

pull1D
Entries 41
Mean 0.005715
Std Dev 0.2878

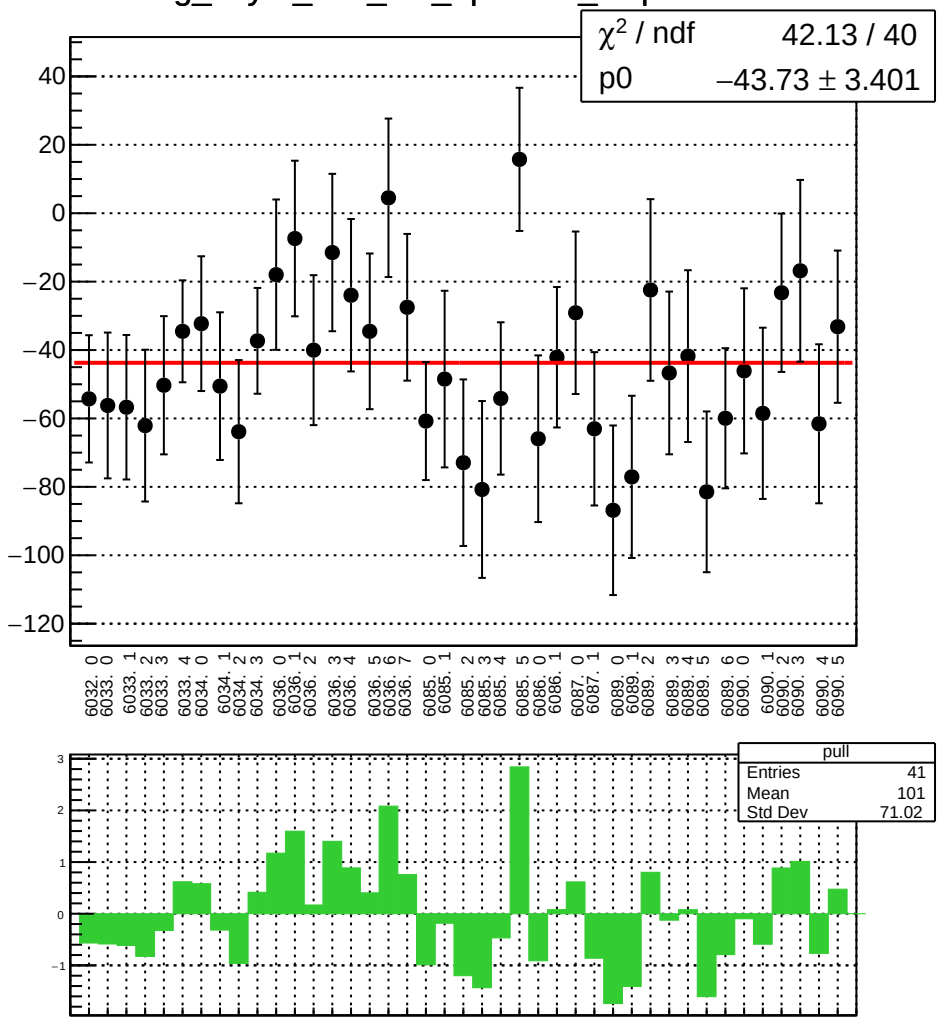

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 50.27 / 40
p0 −33.96 ± 5.166
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 46.8
Std Dev 21.58
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.03951
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

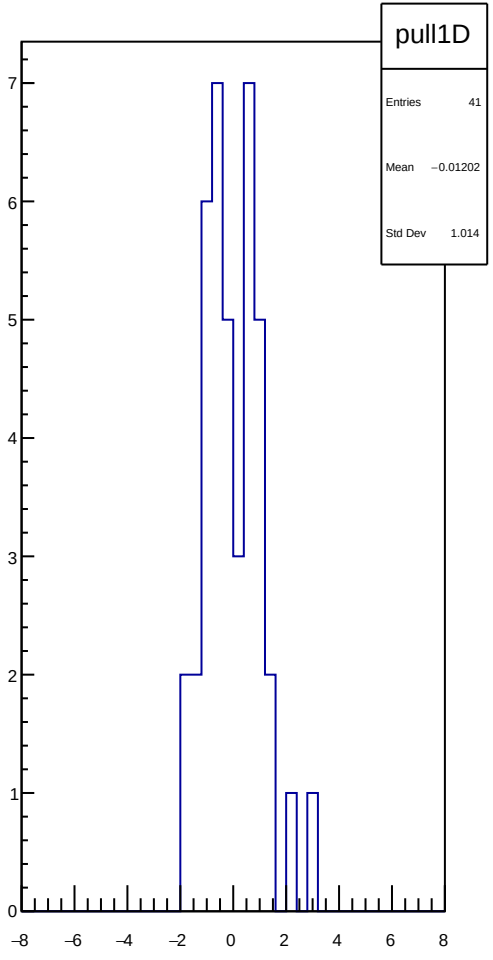

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 36.81 / 40
p0 25.24 ± 3.16
pull
Entries 41
Mean 19.9
Std Dev 33.13

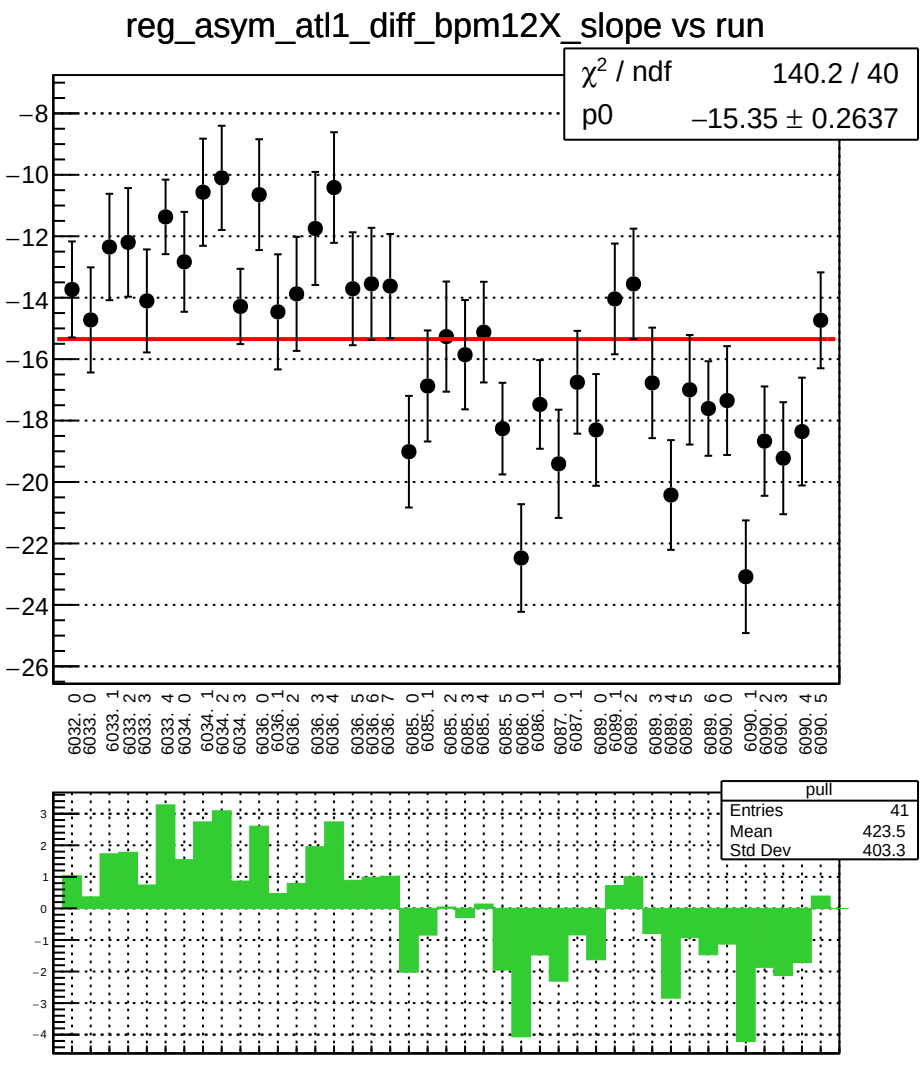

pull1D
Entries 41
Mean 0.01079
Std Dev 0.9474

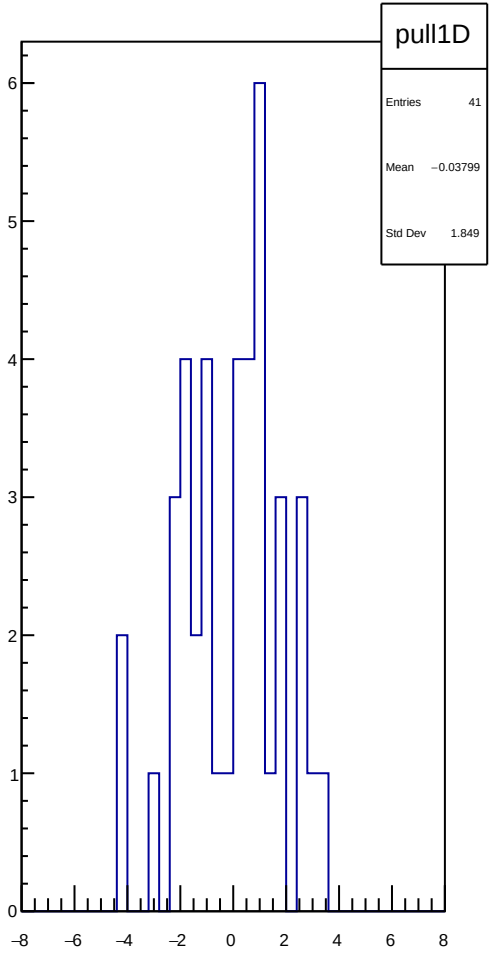

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 51.58 / 40
p0 79.25 ± 5.772
250
200
150
100
50
0
−50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 59.73
Std Dev 36.8
3
2
1
0
−1
−2
−3

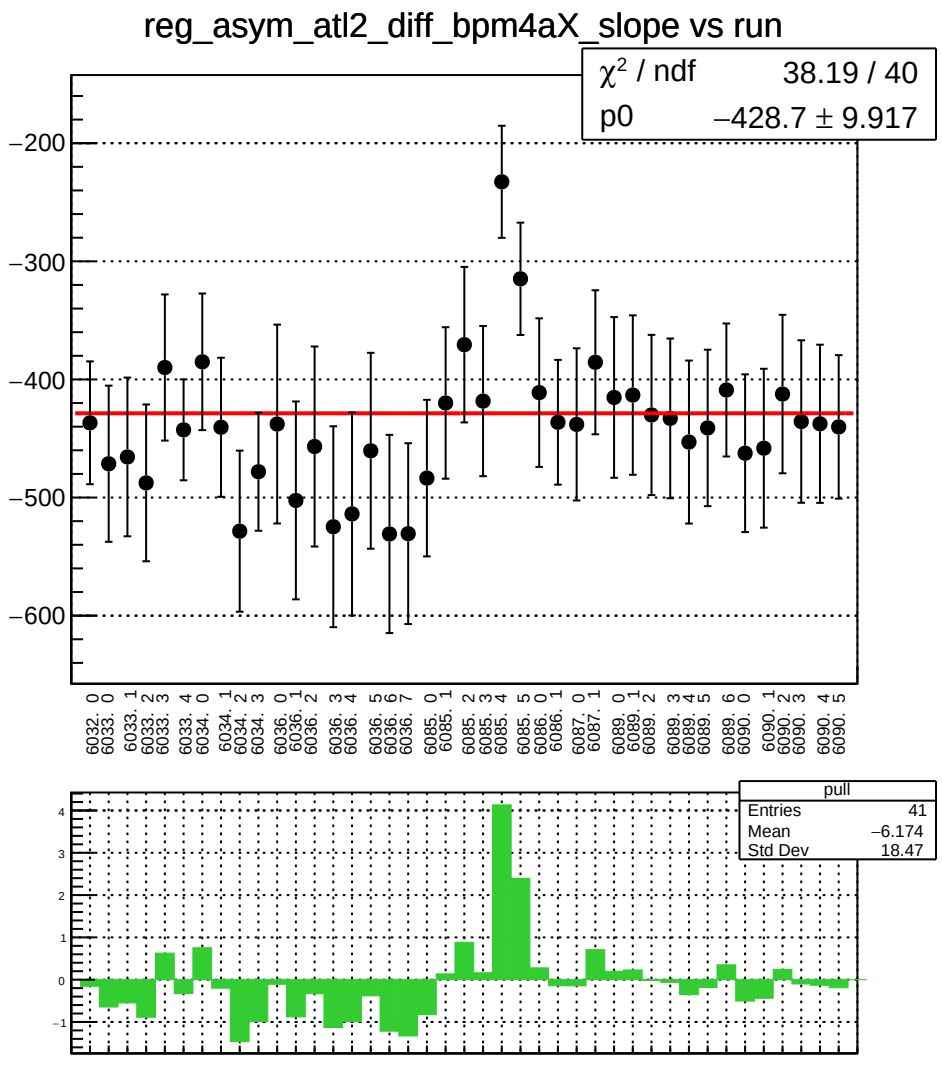

pull1D
Entries 41
Mean 0.04831
Std Dev 1.121
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

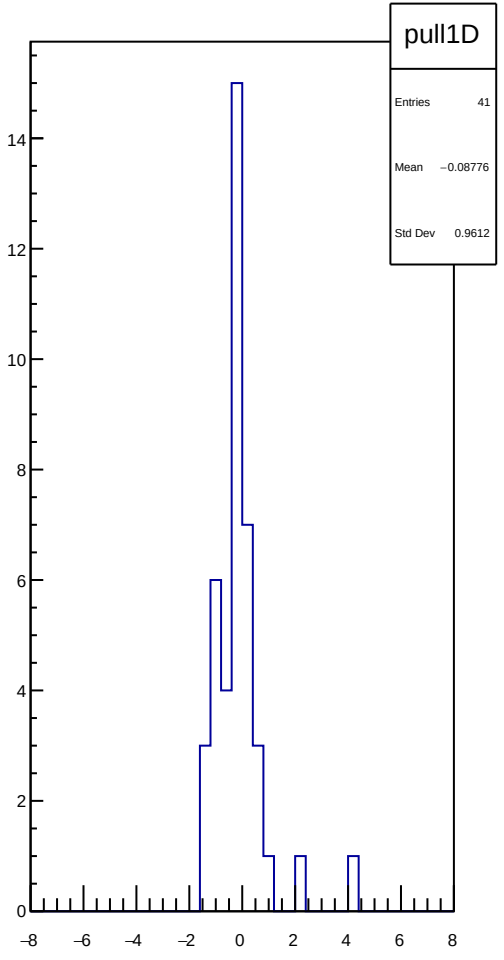

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 42.13 / 40
p0 −43.73 ± 3.401
pull
Entries 41
Mean 101
Std Dev 71.02

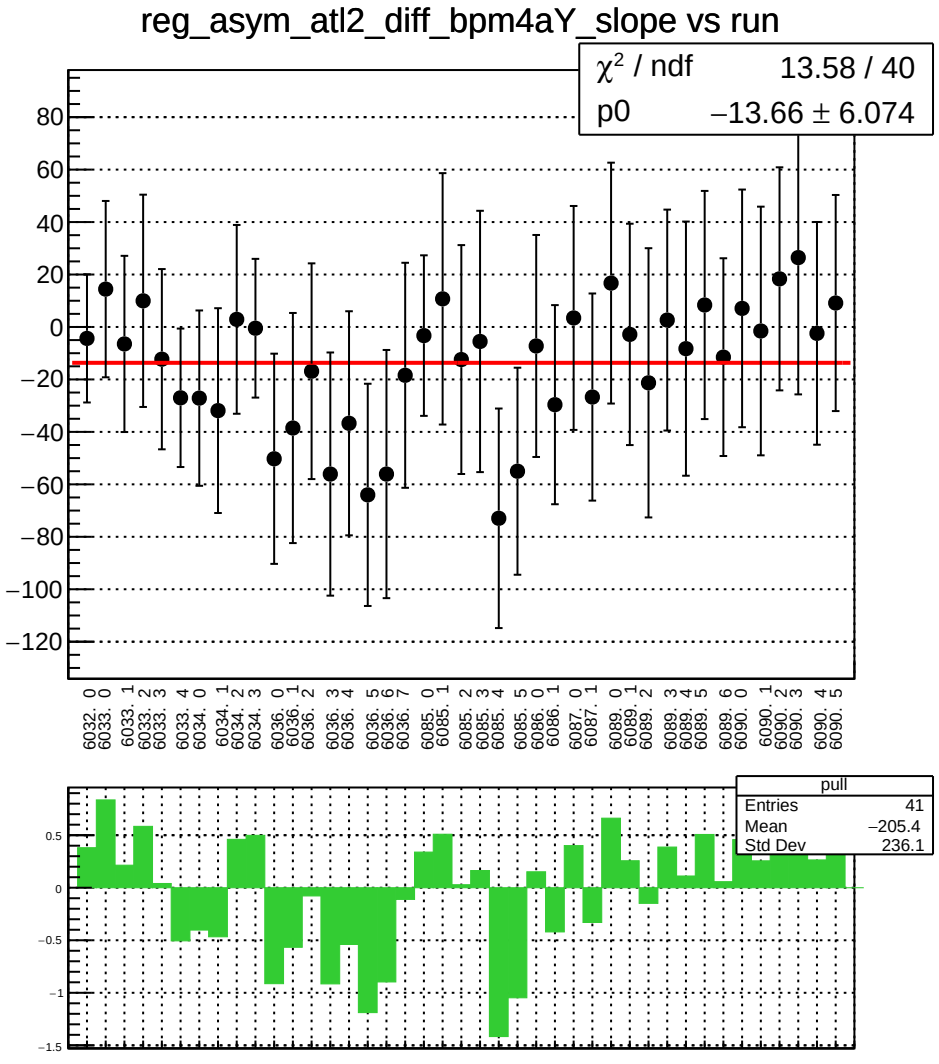

pull1D
Entries 41
Mean −0.01202
Std Dev 1.014

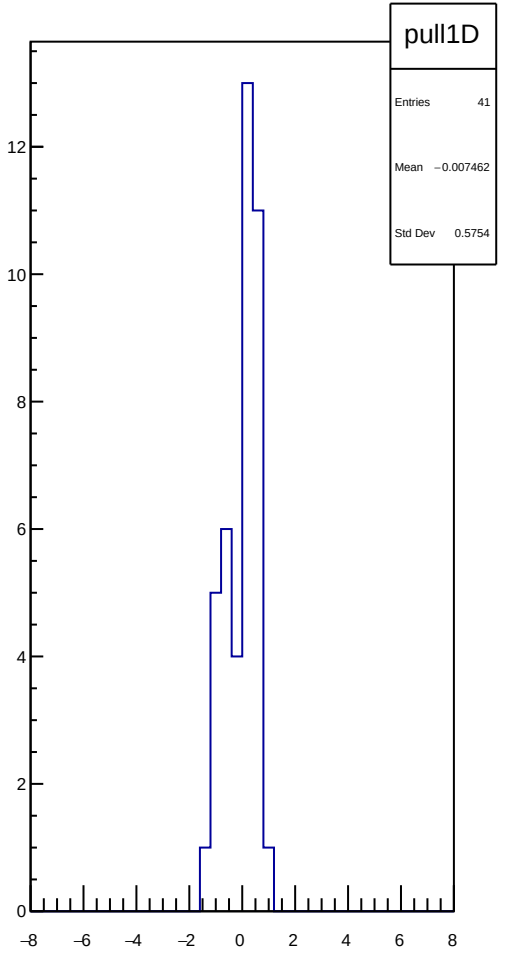

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 140.2 / 40
p0 −15.35 ± 0.2637
pull
Entries 41
Mean 423.5
Std Dev 403.3

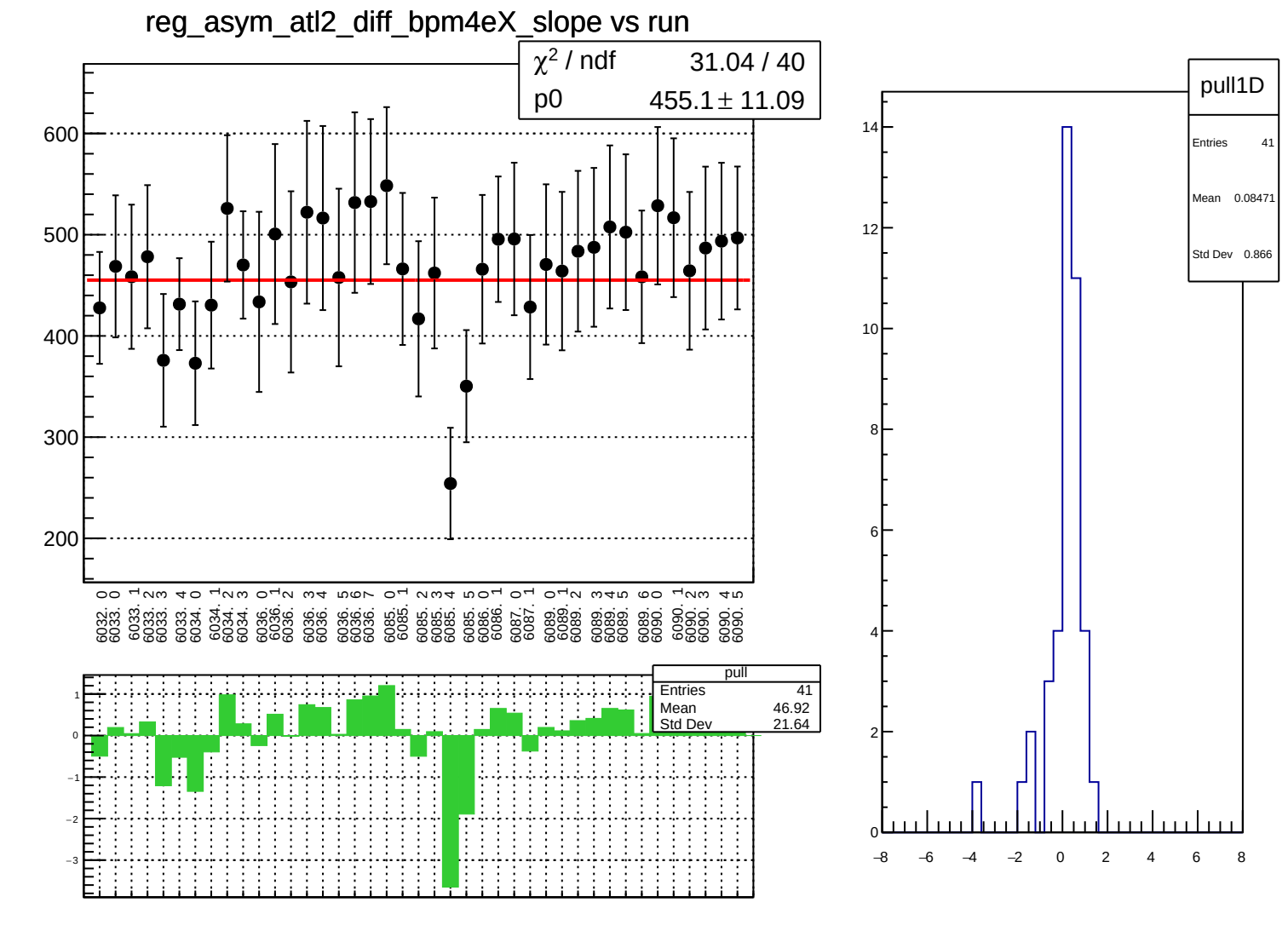

pull1D
Entries 41
Mean −0.03799
Std Dev 1.849

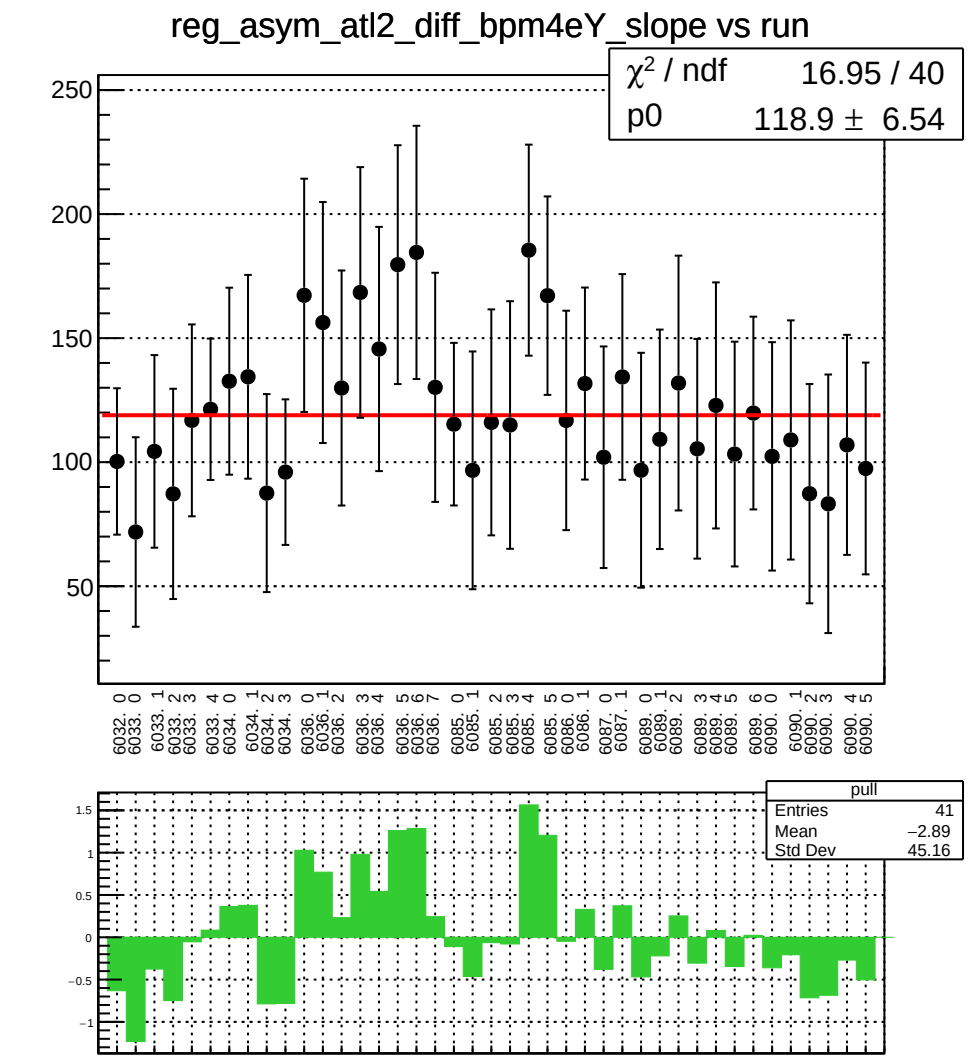

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 38.19 / 40
p0 −428.7 ± 9.917
−200
−300
−400
−500
−600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −6.174
Std Dev 18.47
4
3
2
1
0
−1

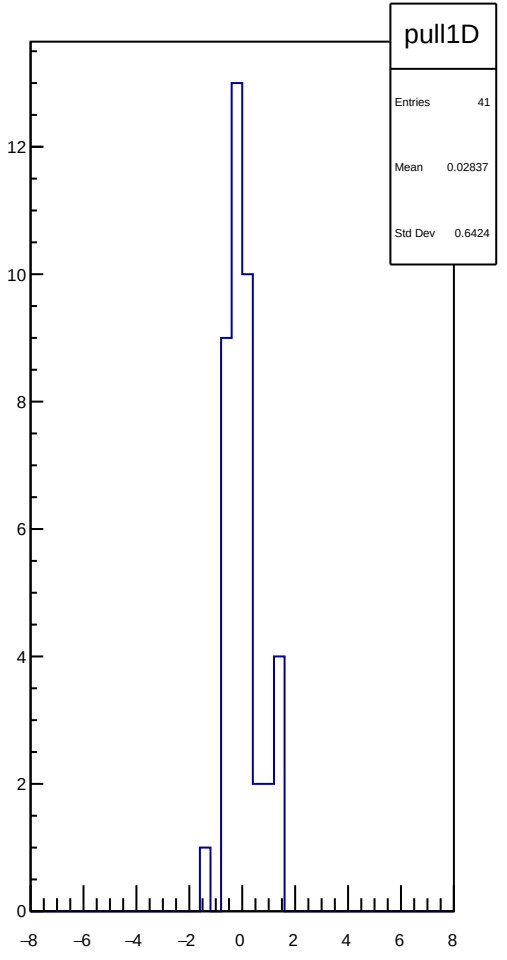

pull1D
Entries 41
Mean −0.08776
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

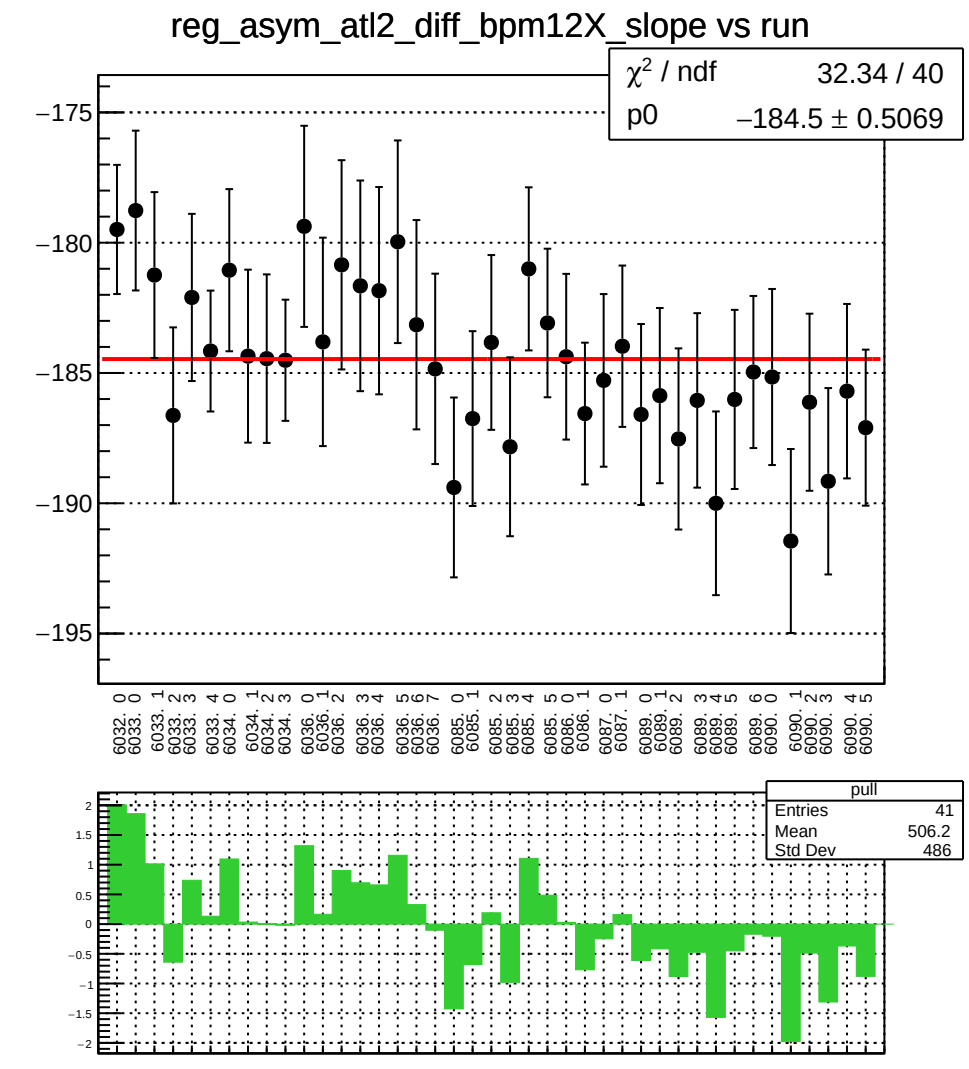

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 13.58 / 40
p0 −13.66 ± 6.074
pull
Entries 41
Mean −205.4
Std Dev 236.1

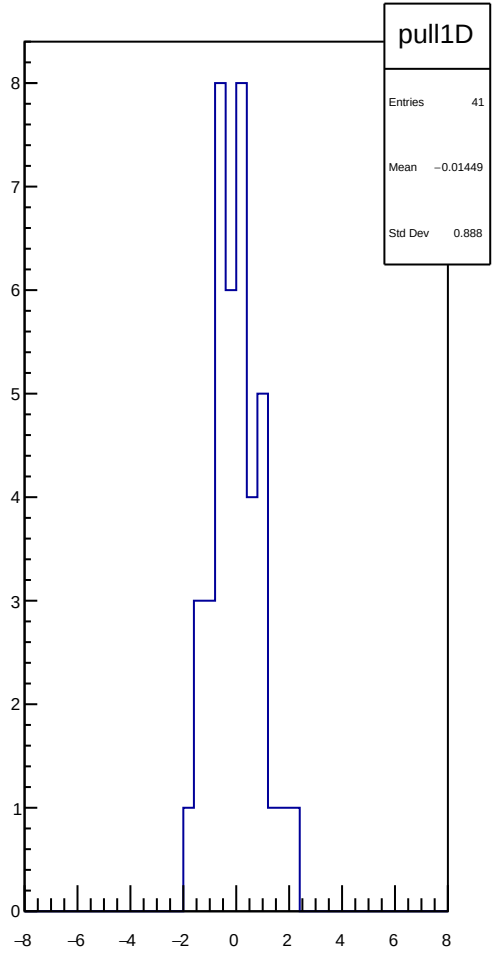

pull1D
Entries 41
Mean −0.007462
Std Dev 0.5754

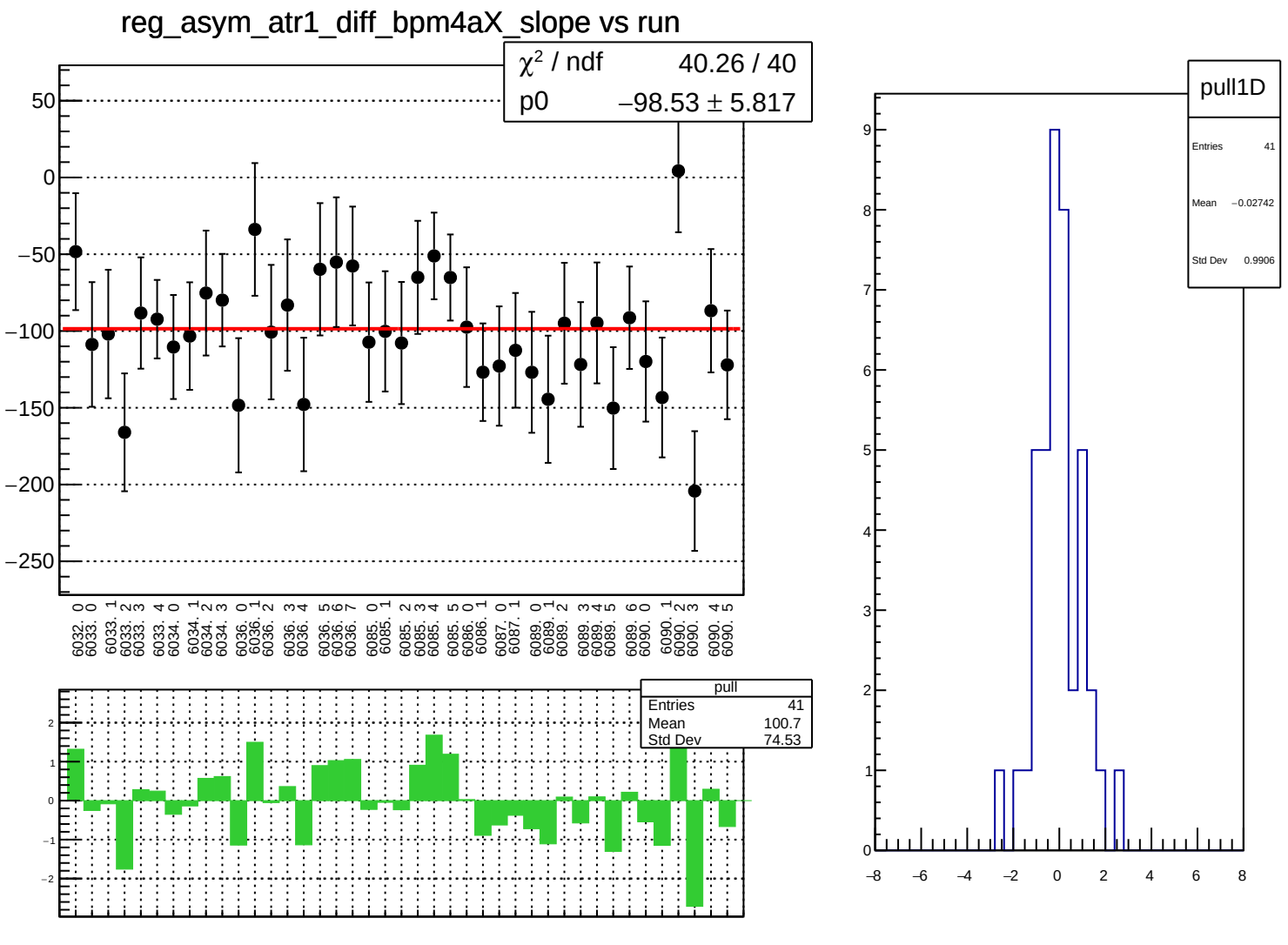

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 31.04 / 40
p0 455.1 ± 11.09
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 46.92
Std Dev 21.64
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.08471
Std Dev 0.866
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

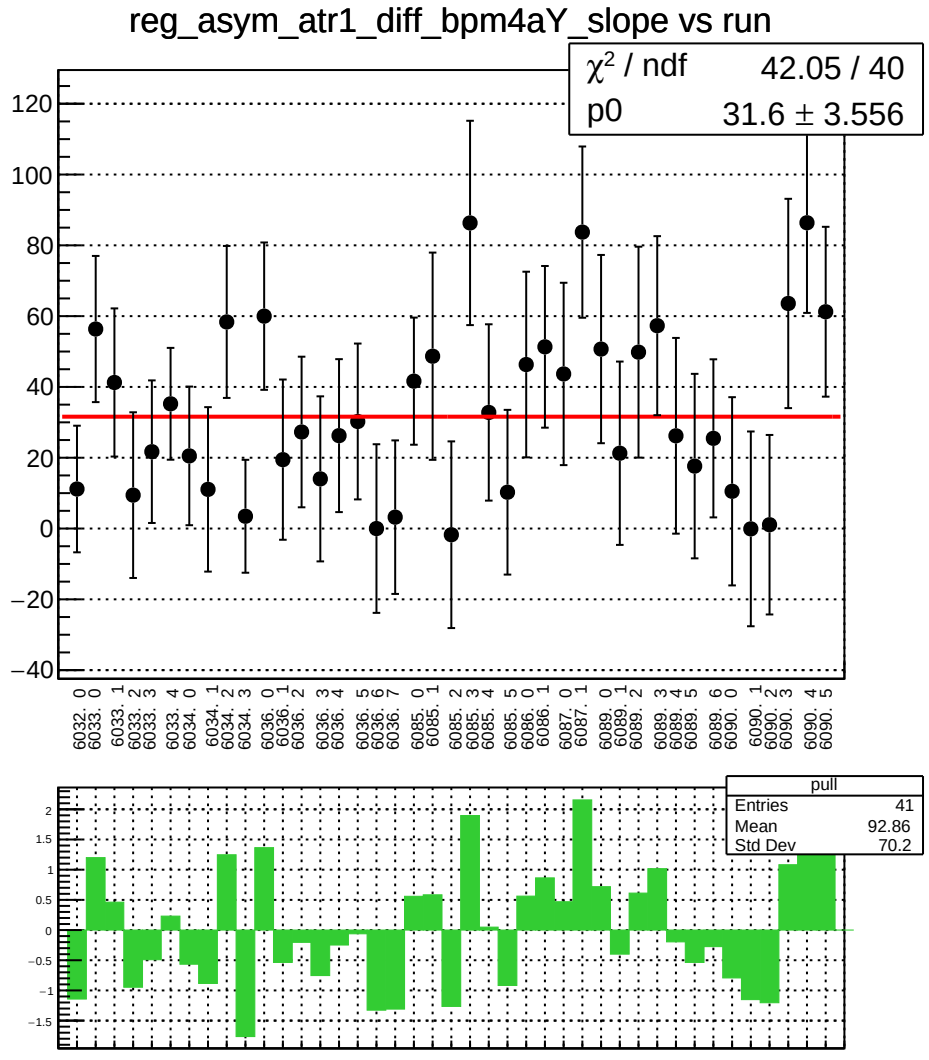

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 16.95 / 40
p0 118.9 ± 6.54
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −2.89
Std Dev 45.16
1.5
1
0.5
0
−0.5
−1

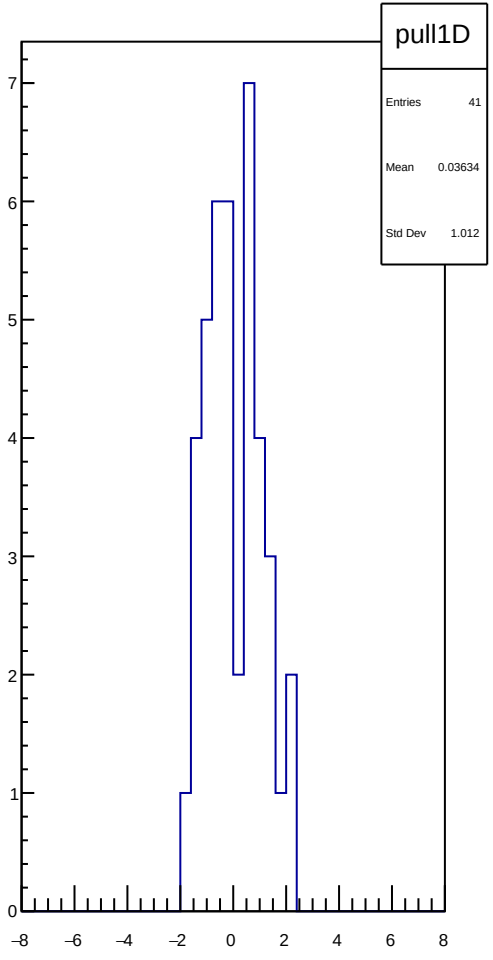

pull1D
Entries 41
Mean 0.02837
Std Dev 0.6424
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

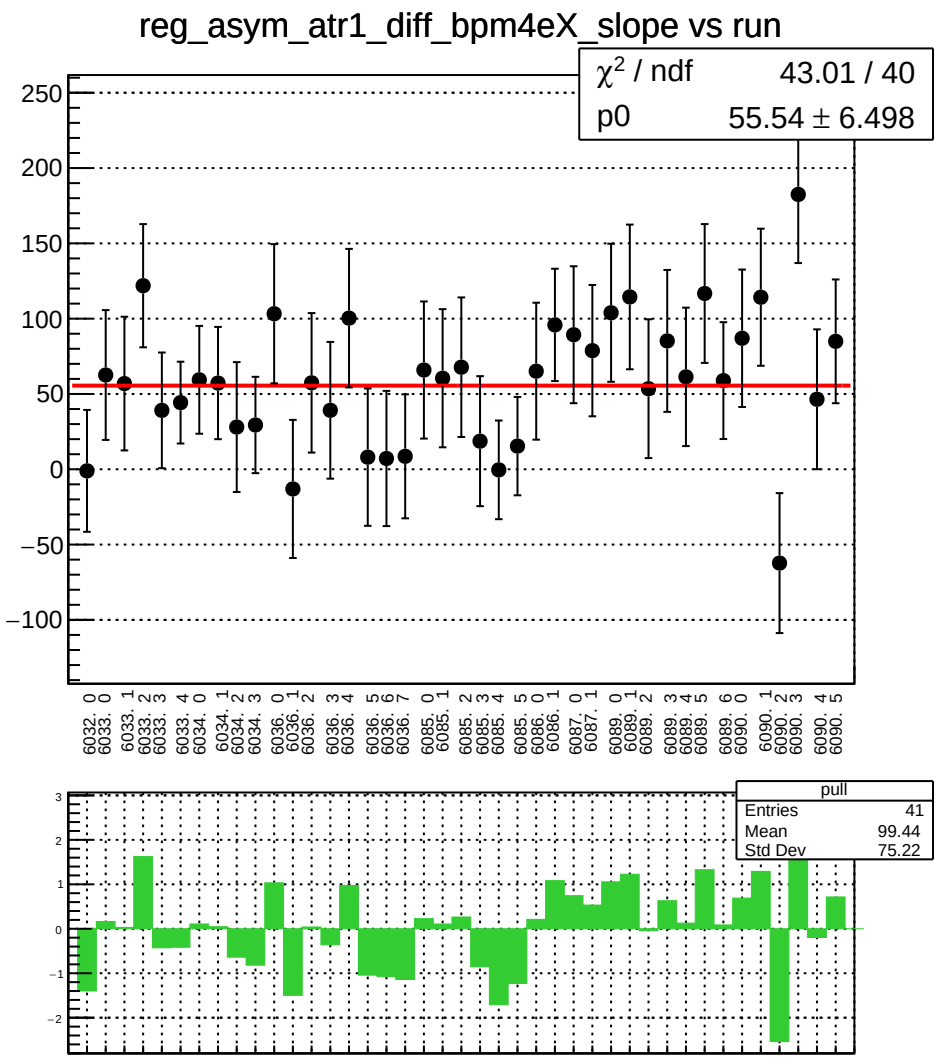

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 32.34 / 40
p0 −184.5 ± 0.5069
−175
−180
−185
−190
−195
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 506.2
Std Dev 486
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

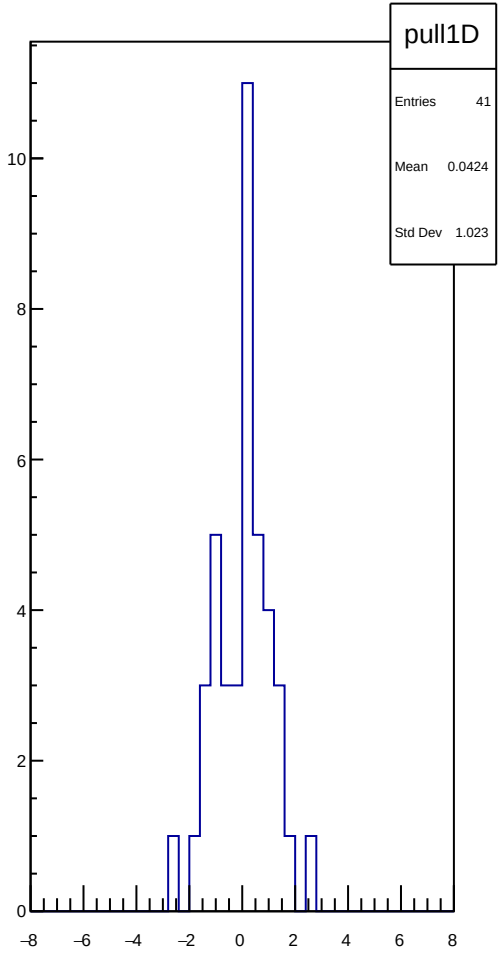

pull1D
Entries 41
Mean −0.01449
Std Dev 0.888
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

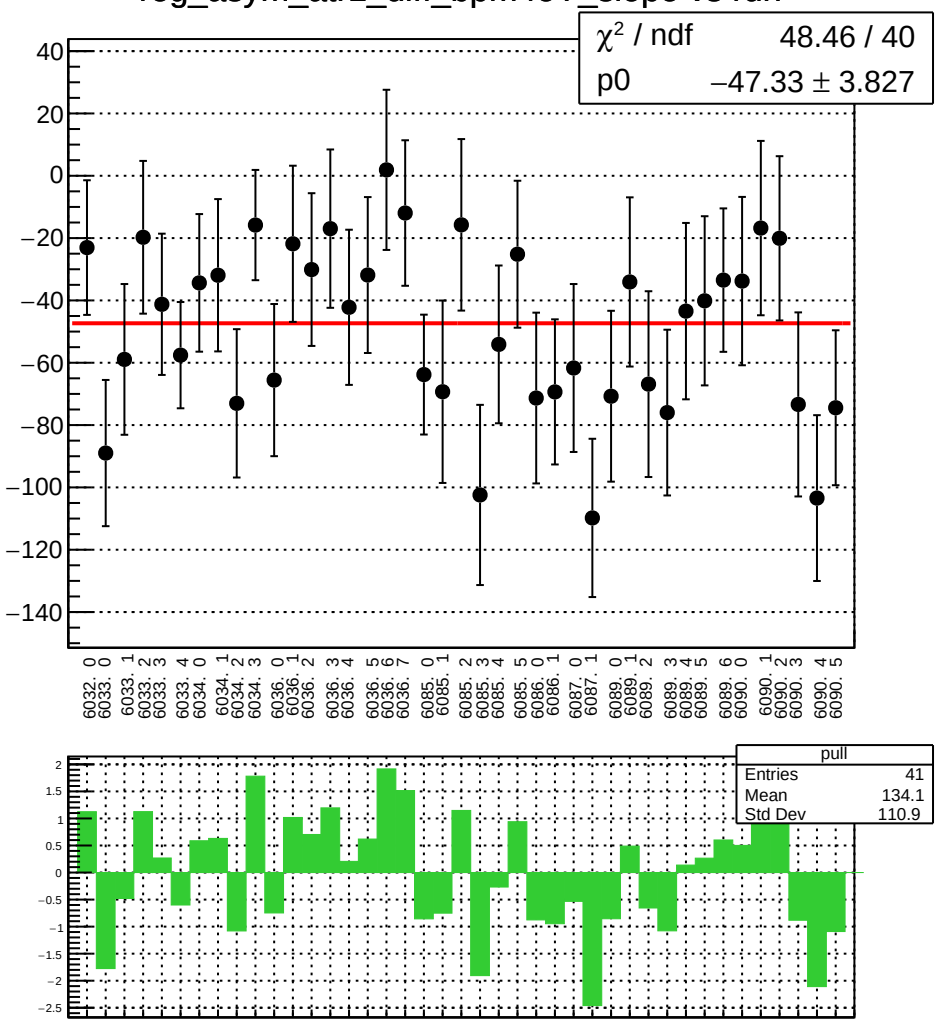

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 40.26 / 40
p0 −98.53 ± 5.817
50
0
−50
−100
−150
−200
−250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 100.7
Std Dev 74.53
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02742
Std Dev 0.9906
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

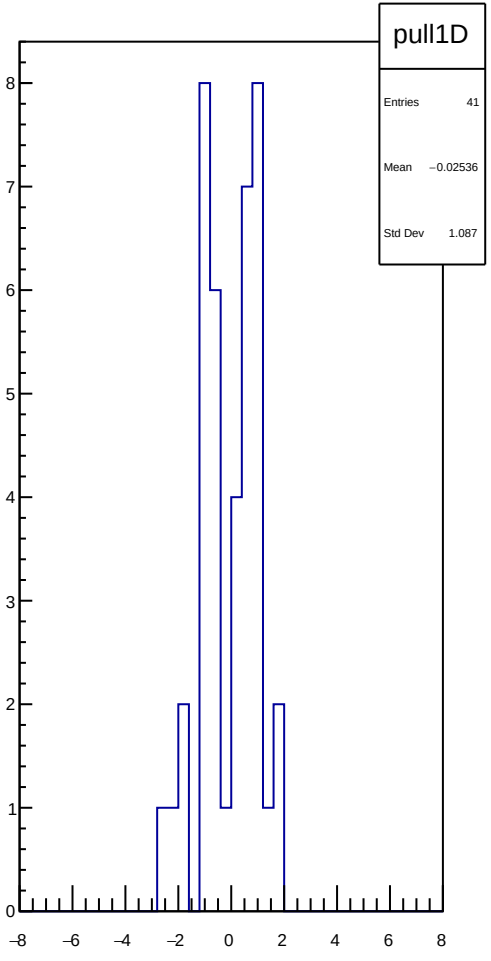

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 42.05 / 40
p0 31.6 ± 3.556
pull
Entries 41
Mean 92.86
Std Dev 70.2

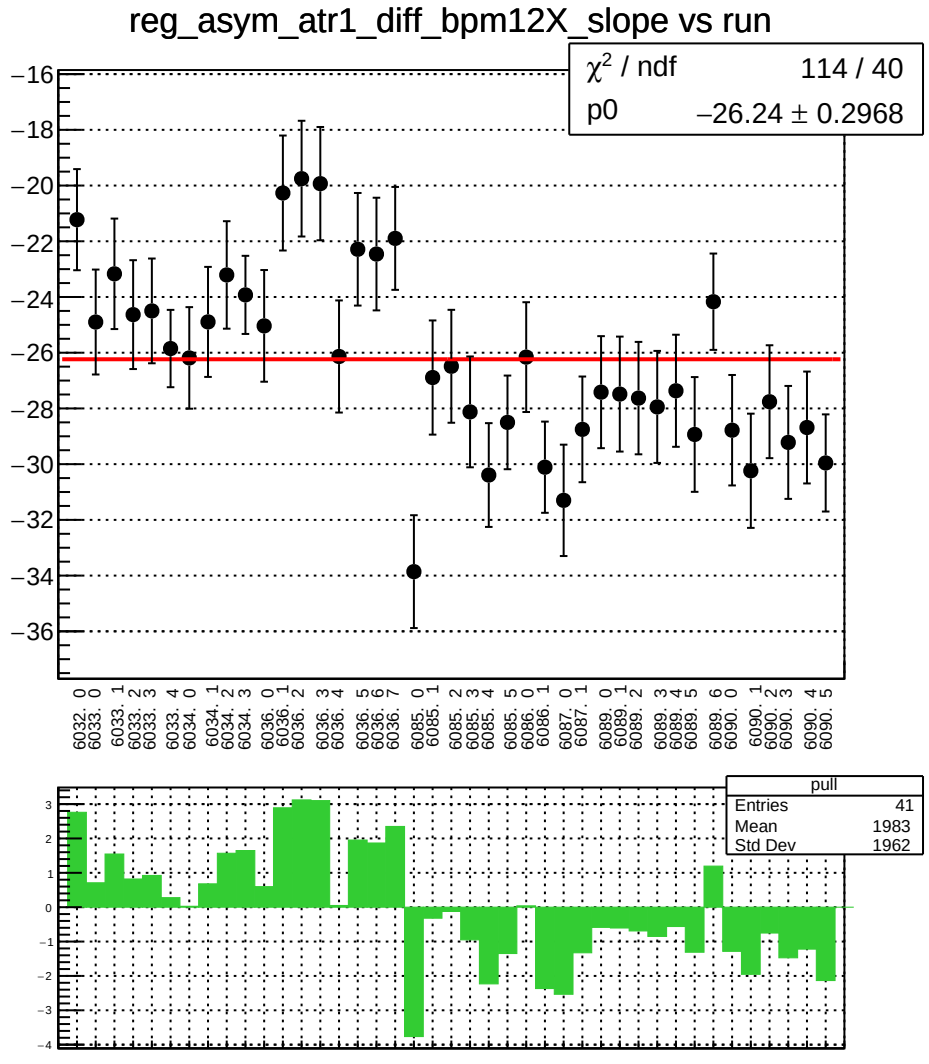

pull1D
Entries 41
Mean 0.03634
Std Dev 1.012

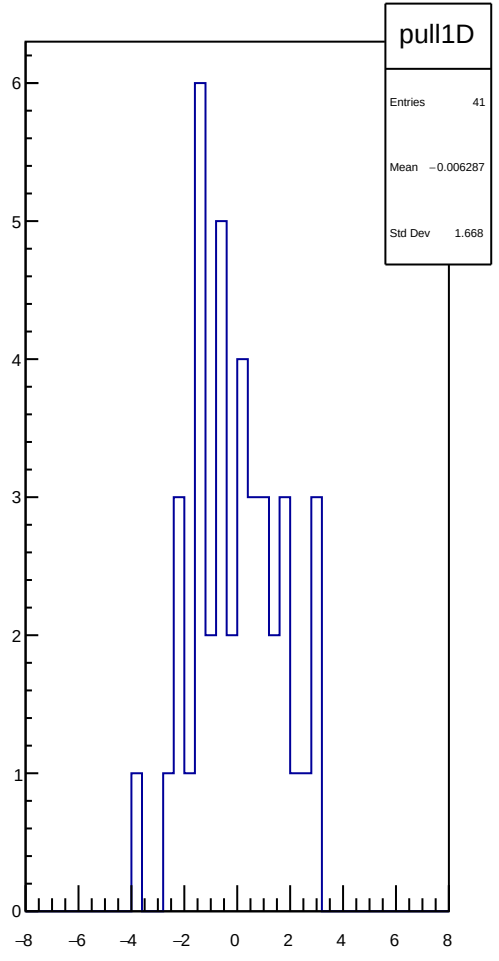

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 43.01 / 40
p0 55.54 ± 6.498
pull
Entries 41
Mean 99.44
Std Dev 75.22

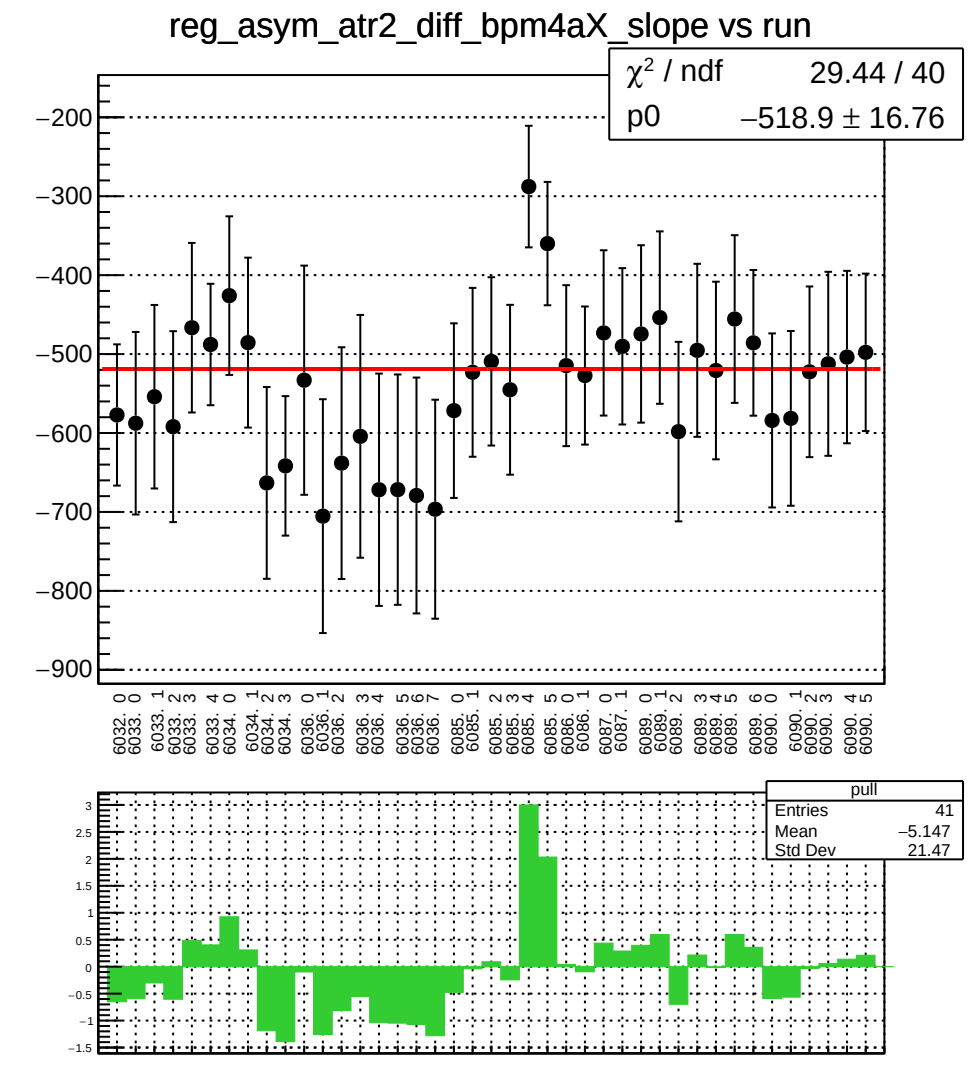

pull1D
Entries 41
Mean 0.0424
Std Dev 1.023

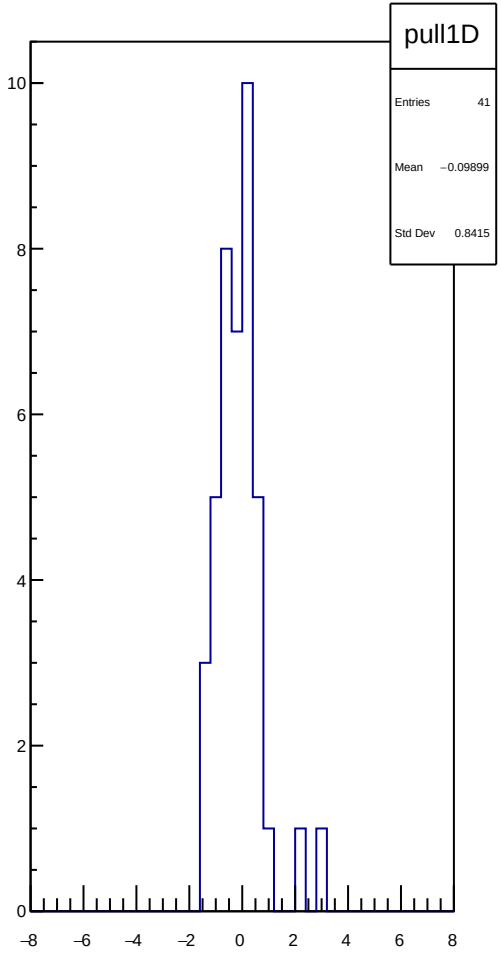

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 48.46 / 40
p0 −47.33 ± 3.827
pull
Entries 41
Mean 134.1
Std Dev 110.9

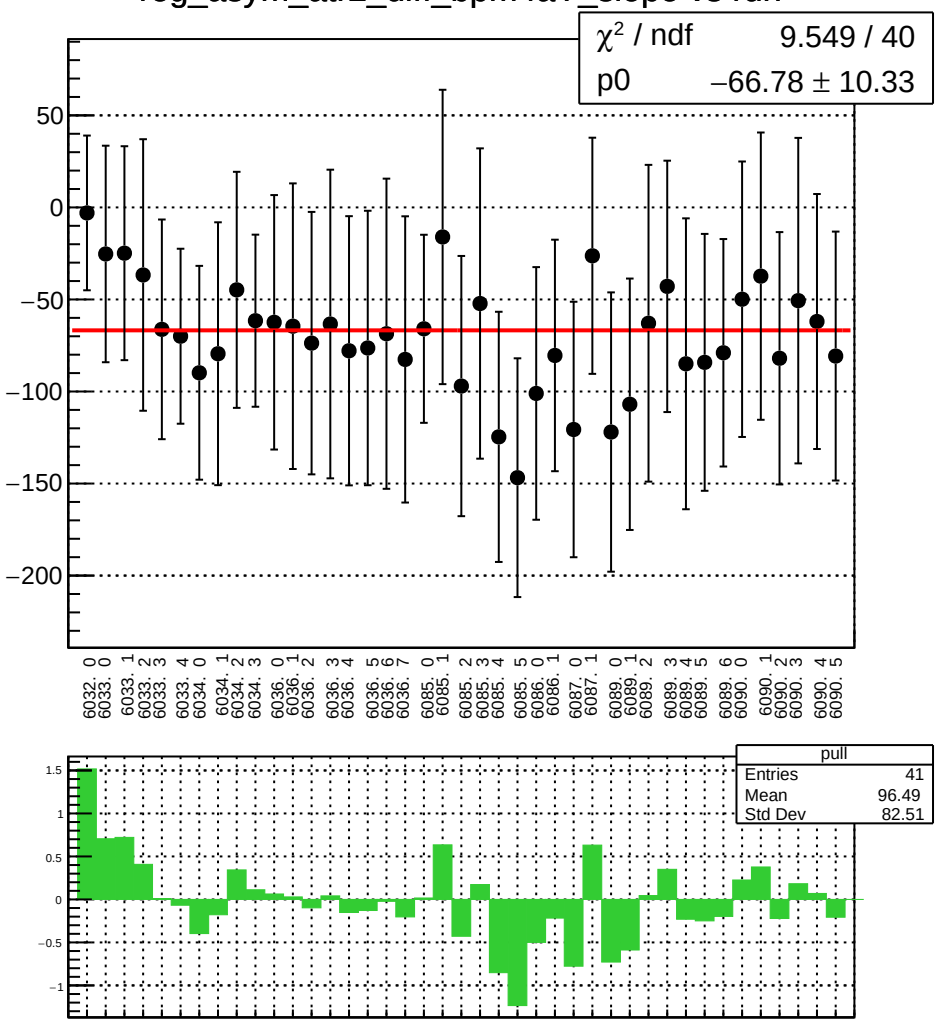

pull1D
Entries 41
Mean −0.02536
Std Dev 1.087

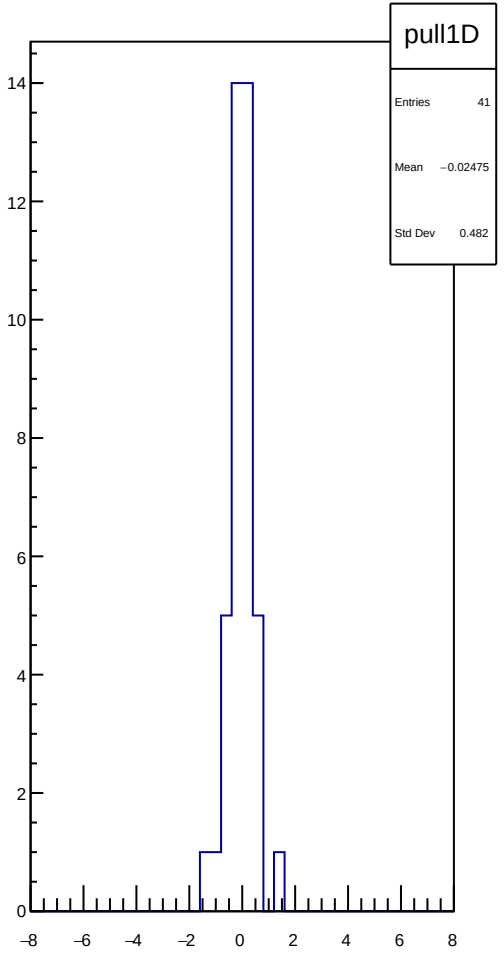

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 114 / 40
p0 −26.24 ± 0.2968
pull
Entries 41
Mean 1983
Std Dev 1962

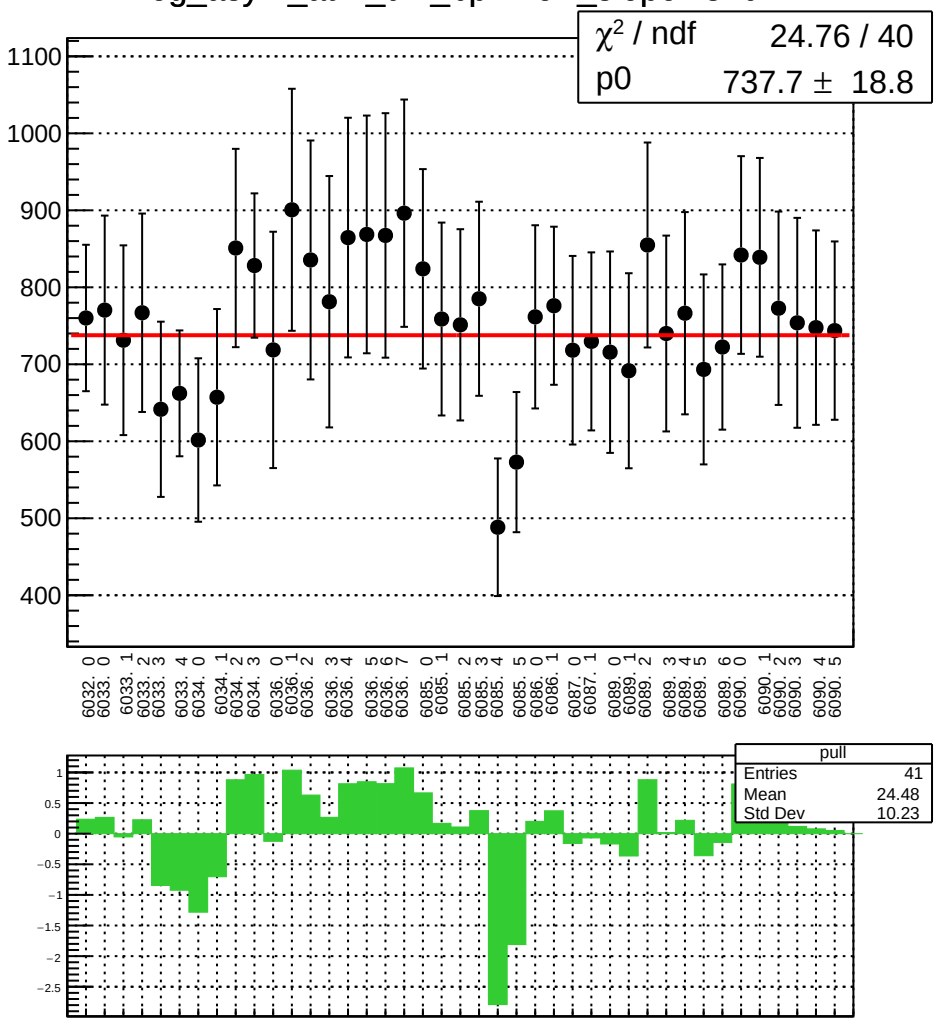

pull1D
Entries 41
Mean −0.006287
Std Dev 1.668

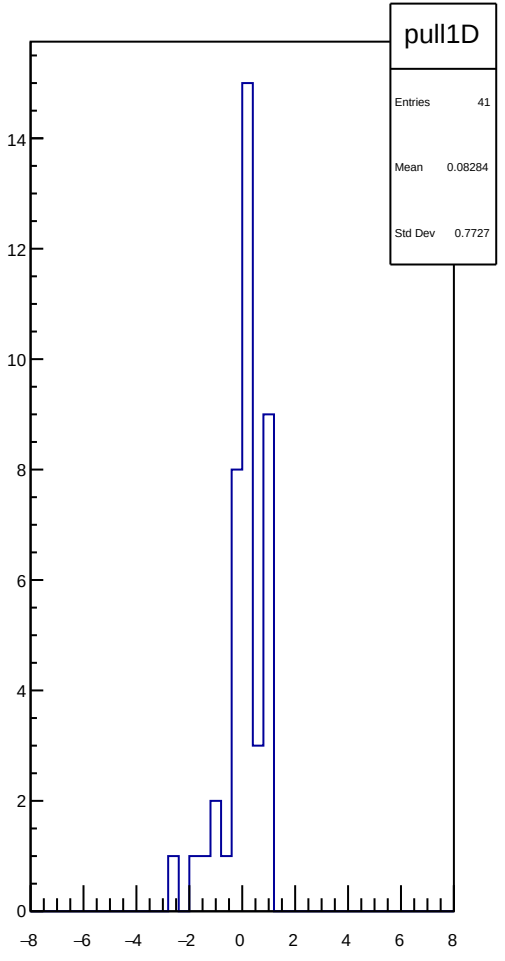

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 29.44 / 40
p0 −518.9 ± 16.76
pull
Entries 41
Mean −5.147
Std Dev 21.47

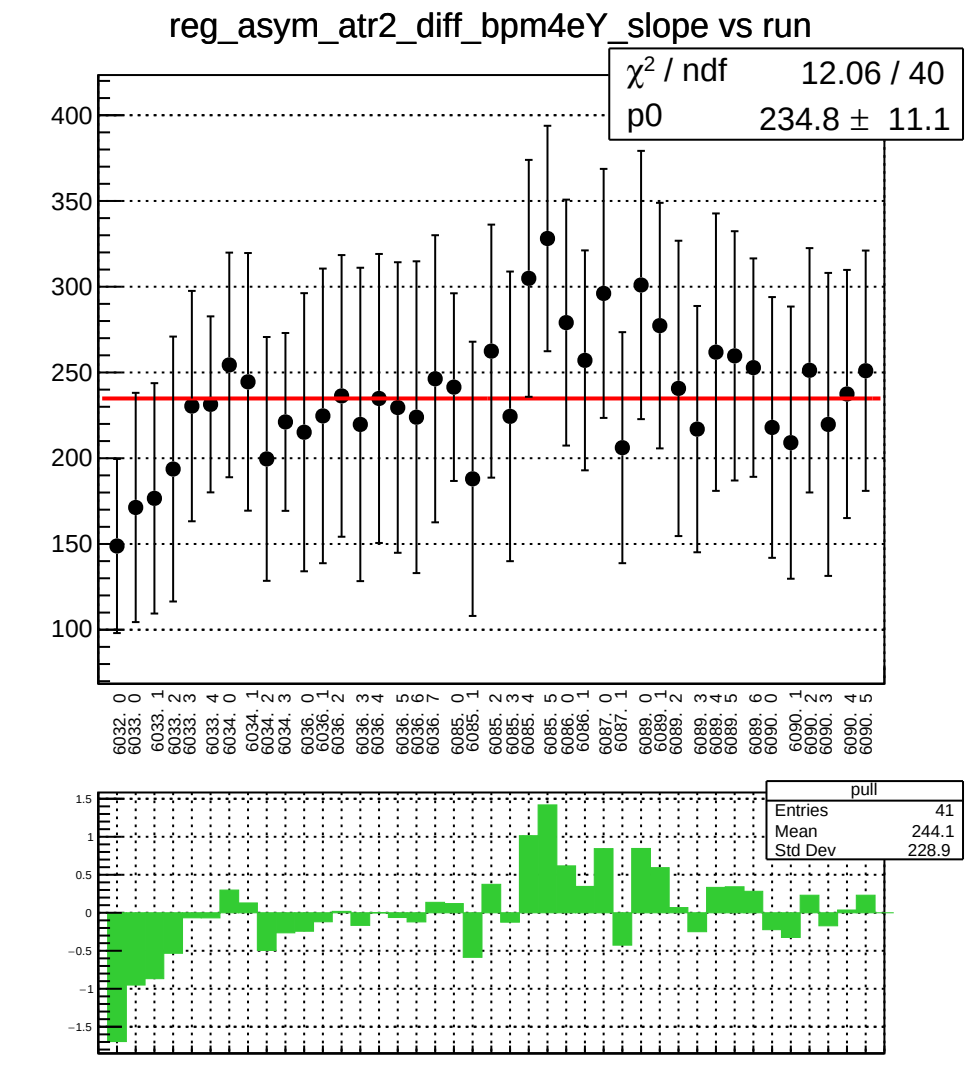

pull1D
Entries 41
Mean −0.09899
Std Dev 0.8415

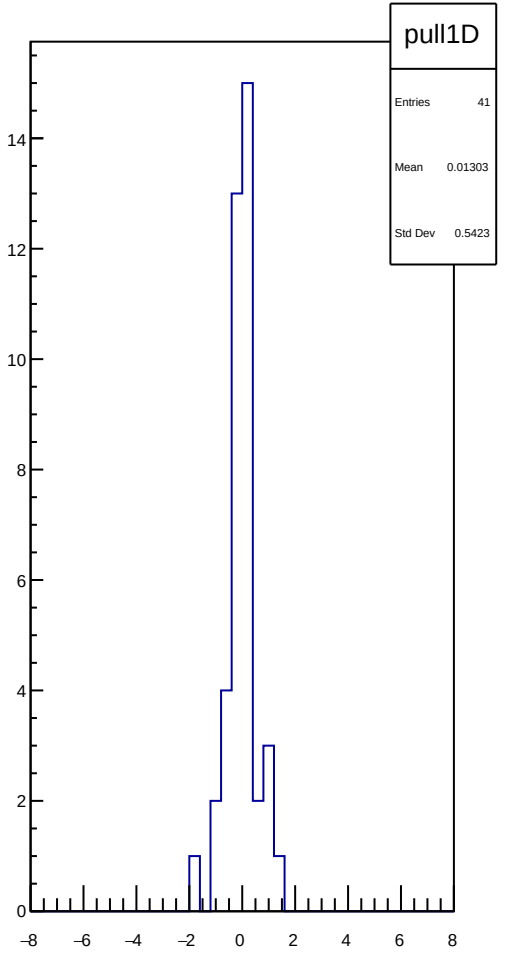

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 9.549 / 40
p0 −66.78 ± 10.33
pull
Entries 41
Mean 96.49
Std Dev 82.51

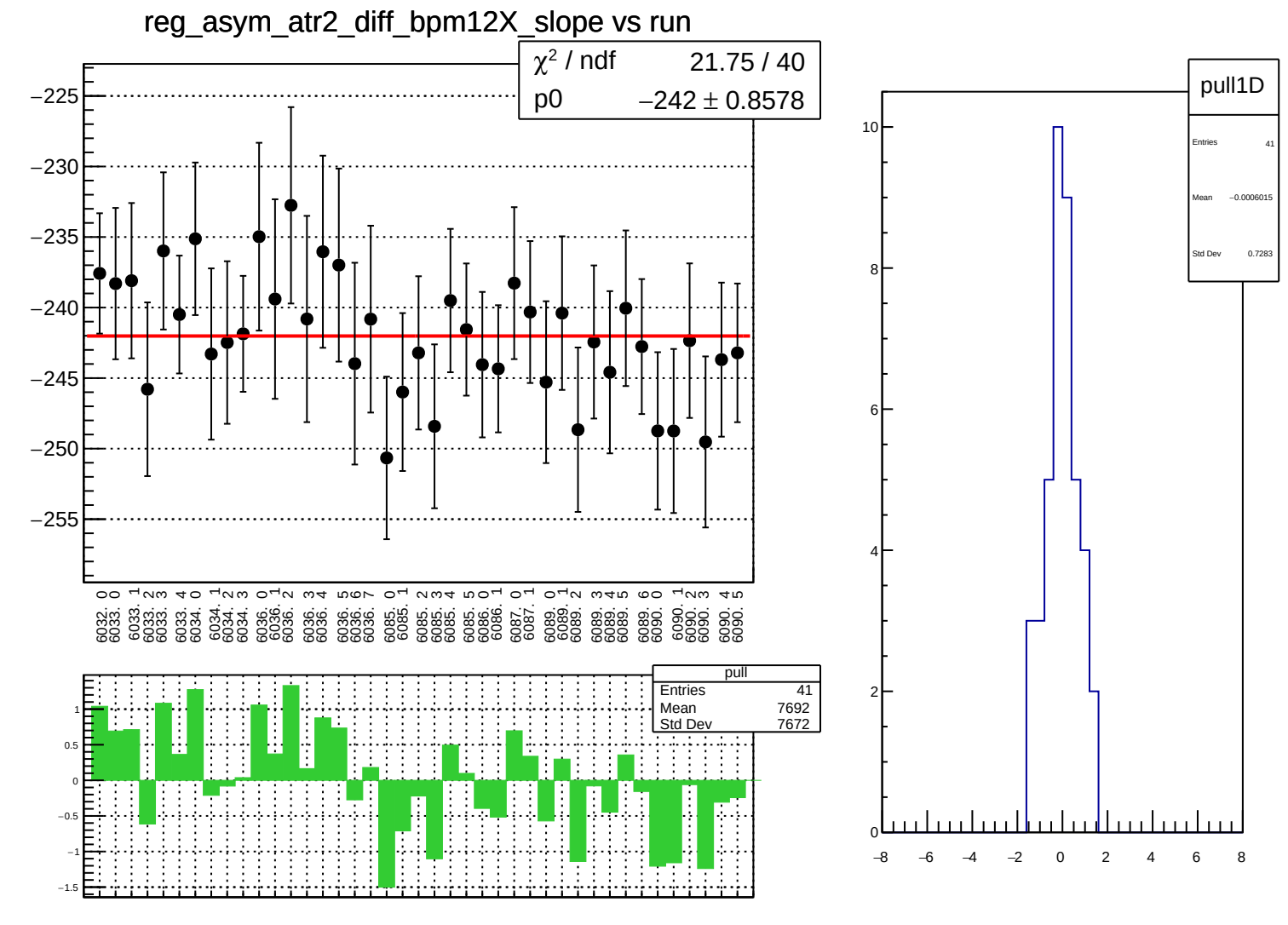

pull1D
Entries 41
Mean −0.02475
Std Dev 0.482

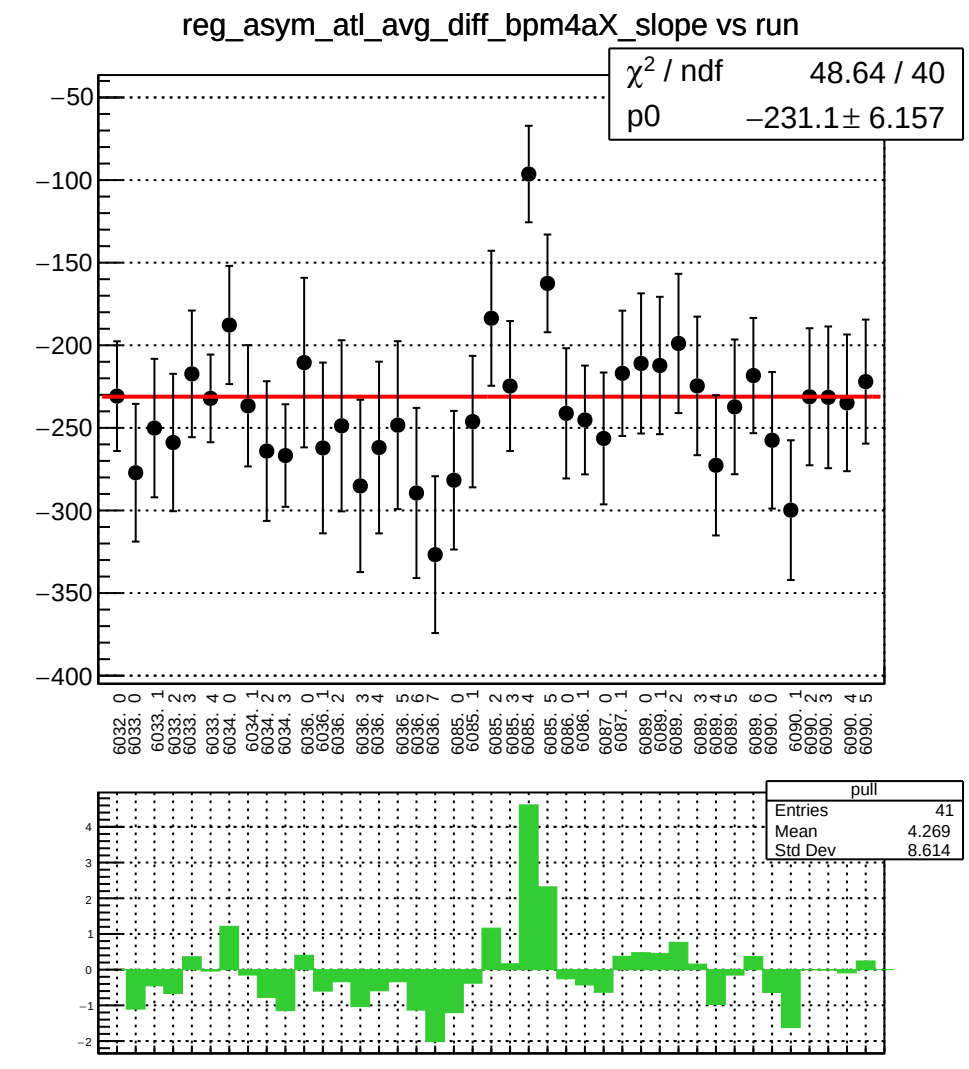

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 24.76 / 40
p0 737.7 ± 18.8
pull
Entries 41
Mean 24.48
Std Dev 10.23

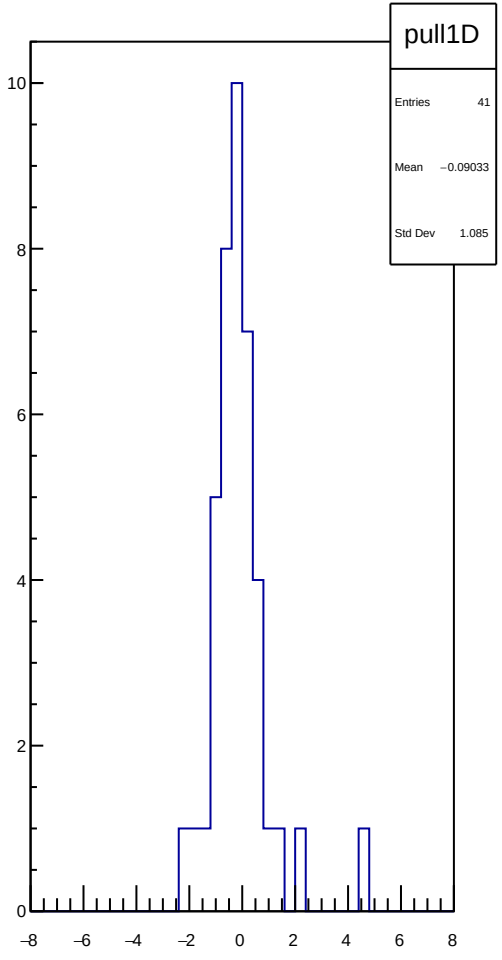

pull1D
Entries 41
Mean 0.08284
Std Dev 0.7727

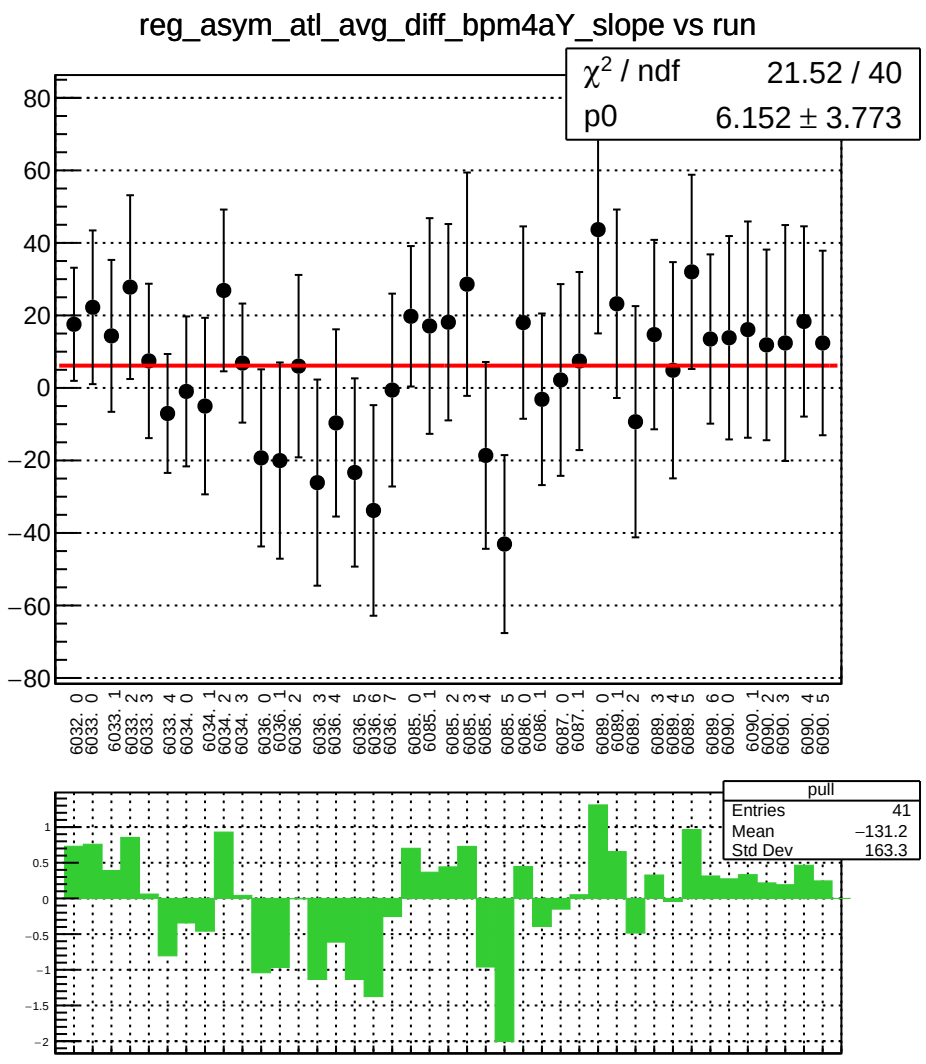

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 12.06 / 40
p0 234.8 ± 11.1
pull
Entries 41
Mean 244.1
Std Dev 228.9

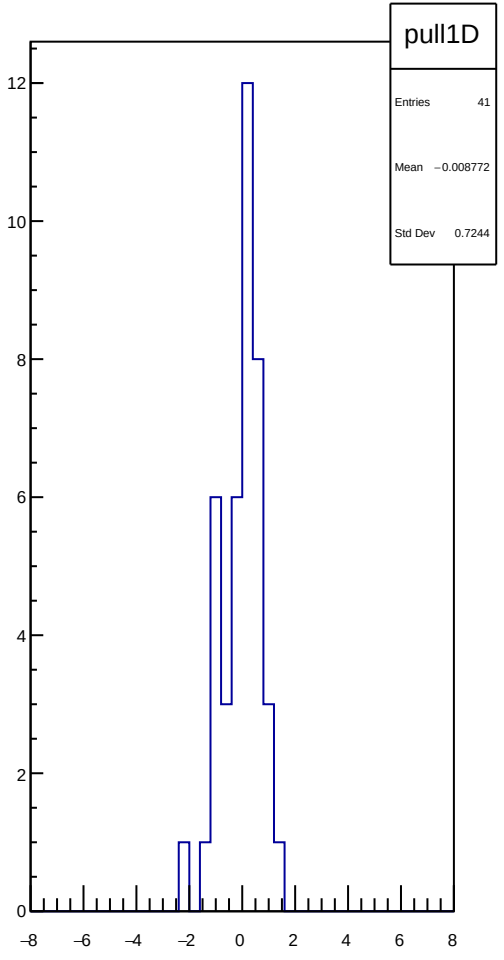

pull1D
Entries 41
Mean 0.01303
Std Dev 0.5423

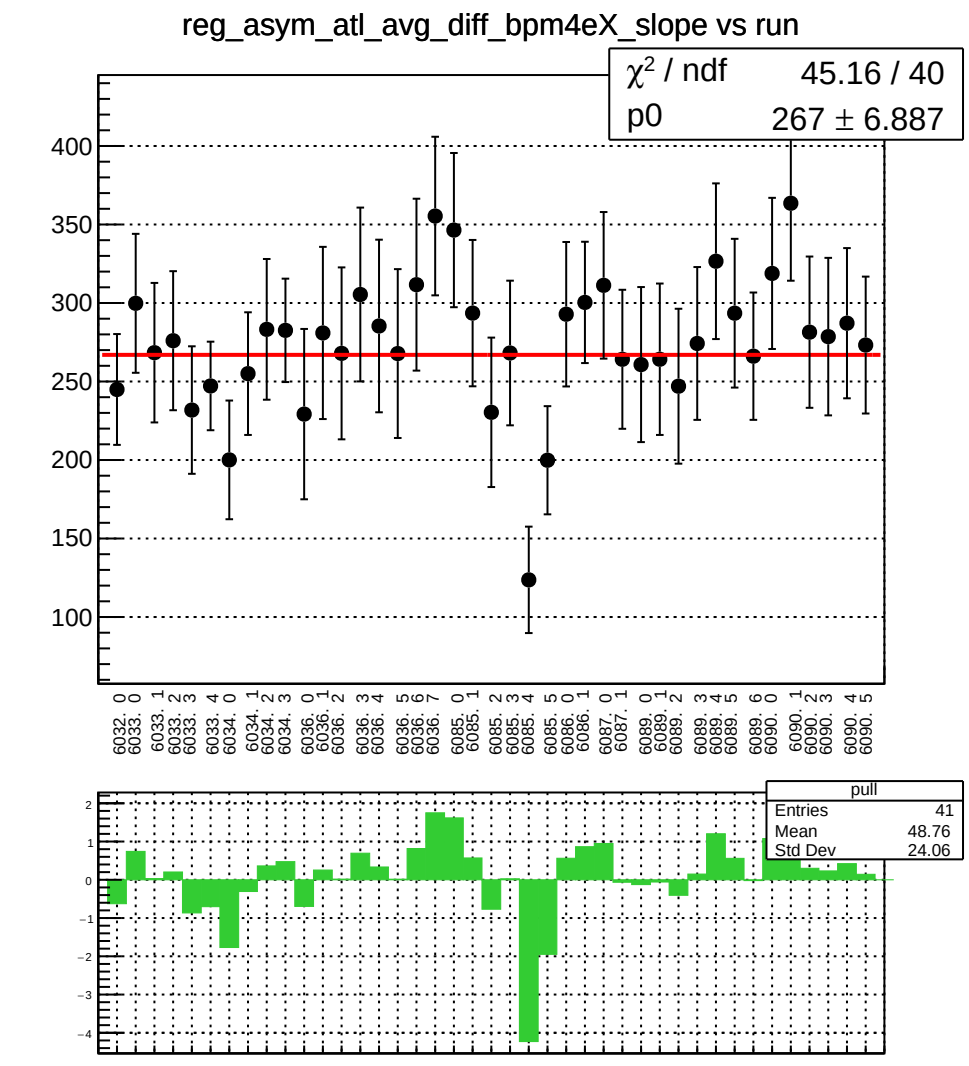

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 21.75 / 40
p0 −242 ± 0.8578
−225
−230
−235
−240
−245
−250
−255
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 7692
Std Dev 7672
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0006015
Std Dev 0.7283
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

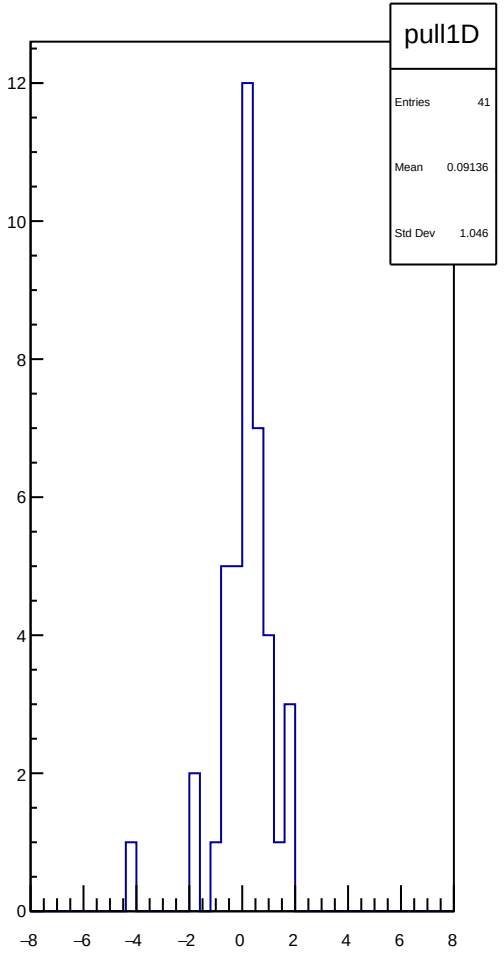

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.64 / 40
p0 −231.1± 6.157
pull
Entries 41
Mean 4.269
Std Dev 8.614

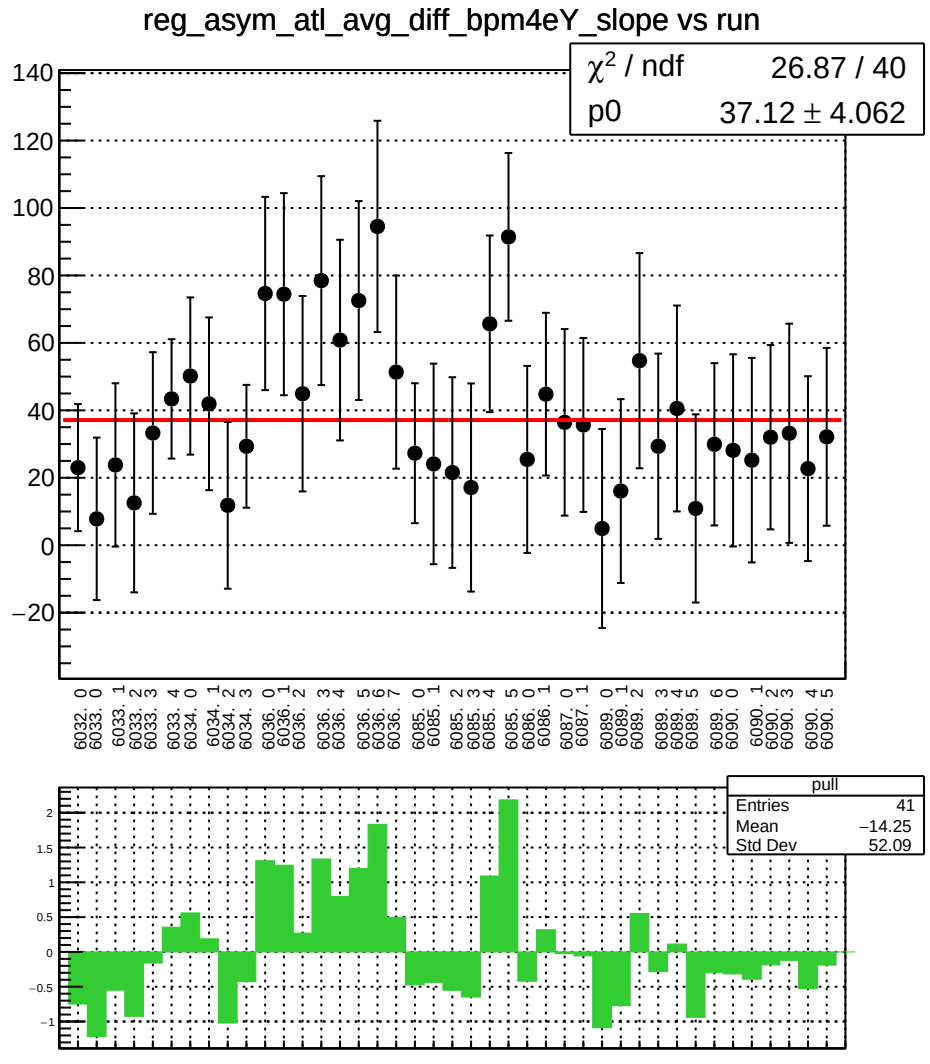

pull1D
Entries 41
Mean −0.09033
Std Dev 1.085

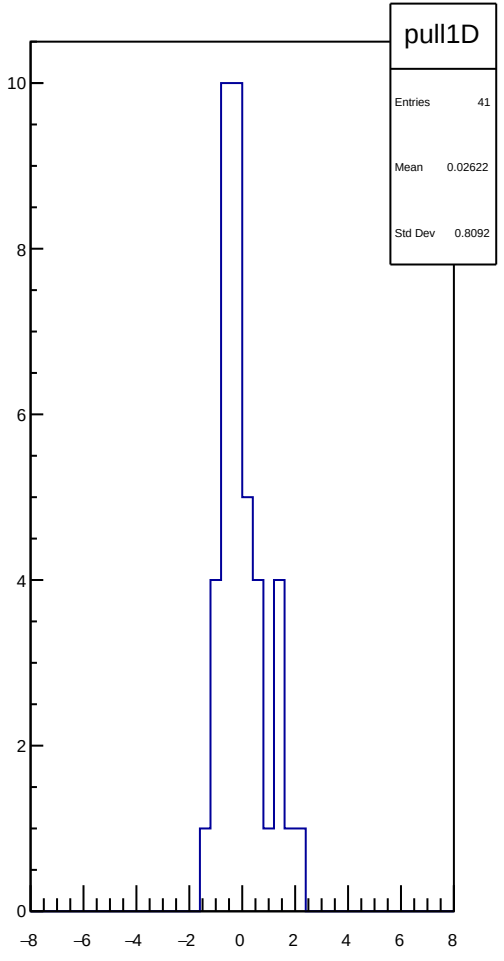

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.52 / 40
p0 6.152 ± 3.773
pull
Entries 41
Mean −131.2
Std Dev 163.3

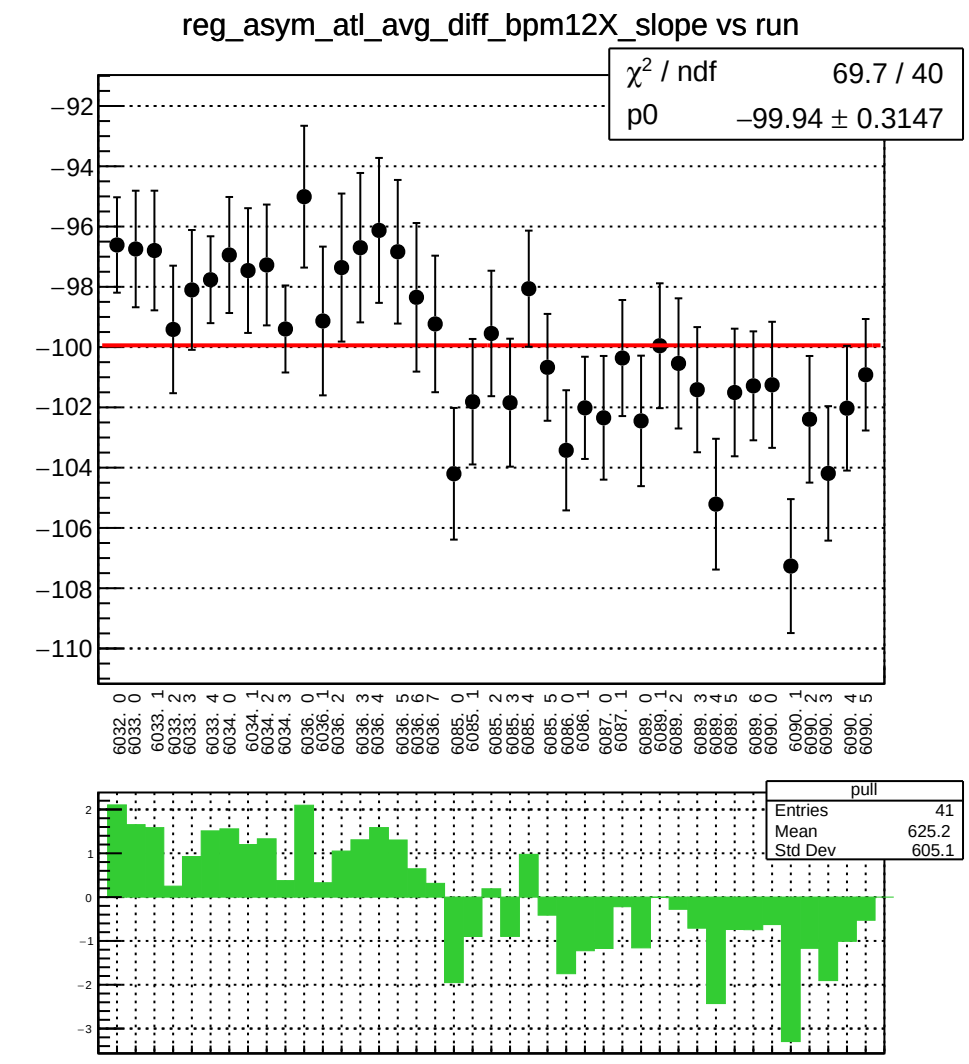

pull1D
Entries 41
Mean −0.008772
Std Dev 0.7244

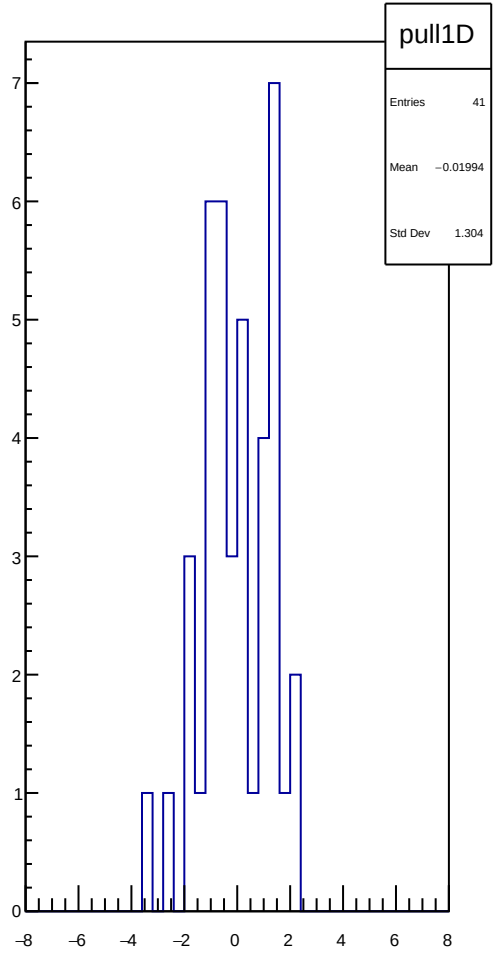

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.16 / 40
p0 267 ± 6.887
pull
Entries 41
Mean 48.76
Std Dev 24.06

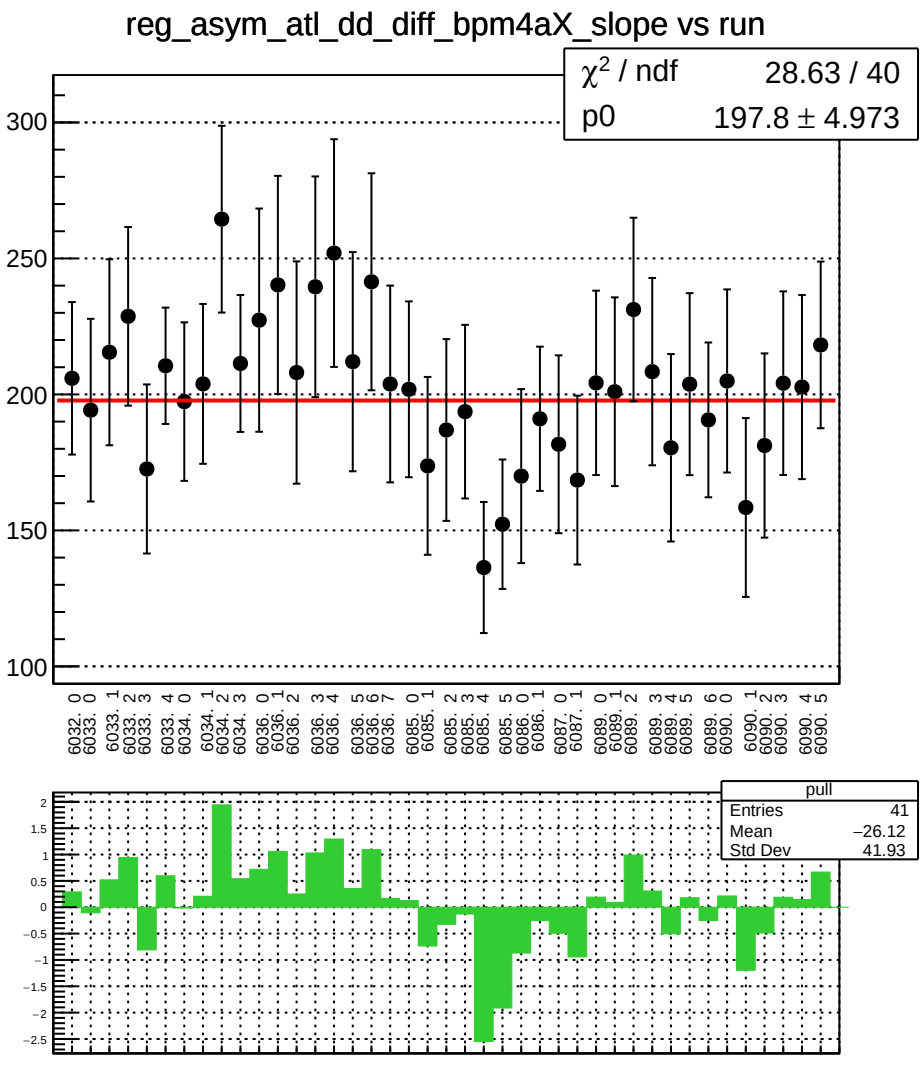

pull1D
Entries 41
Mean 0.09136
Std Dev 1.046

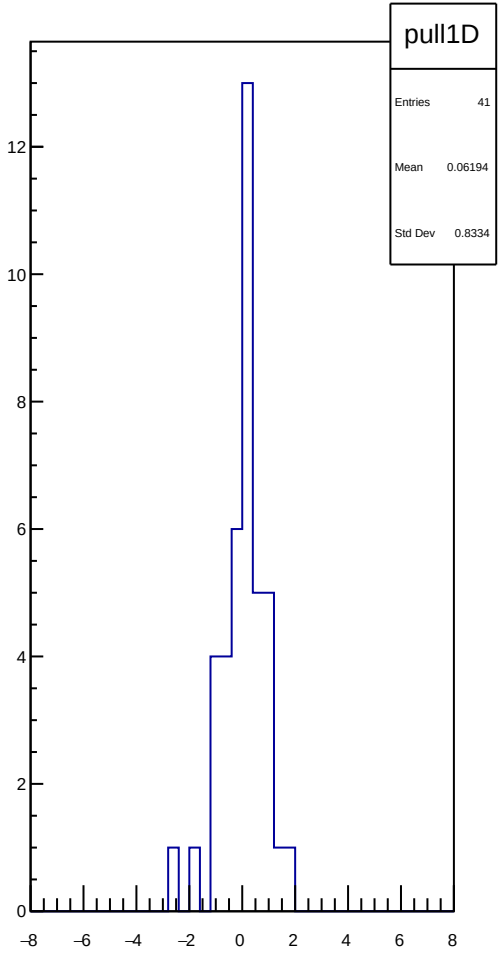

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.87 / 40
p0 37.12 ± 4.062
pull
Entries 41
Mean −14.25
Std Dev 52.09

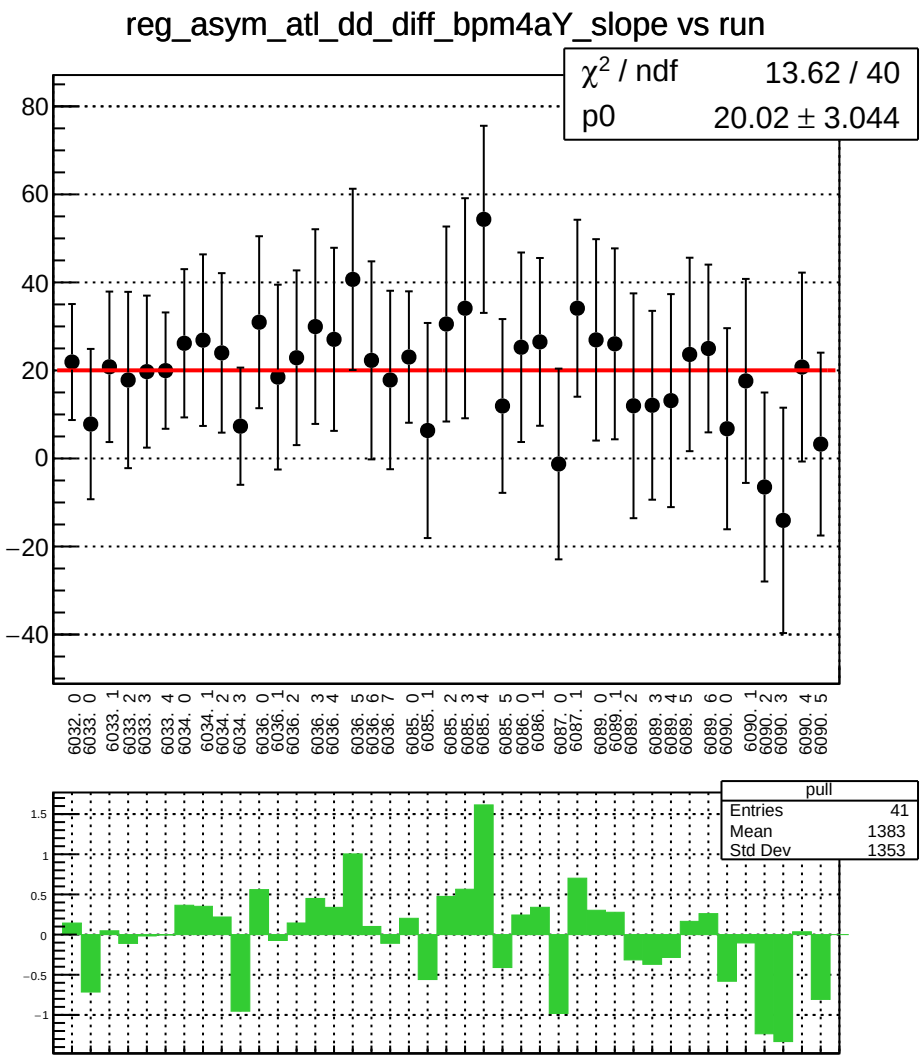

pull1D
Entries 41
Mean 0.02622
Std Dev 0.8092

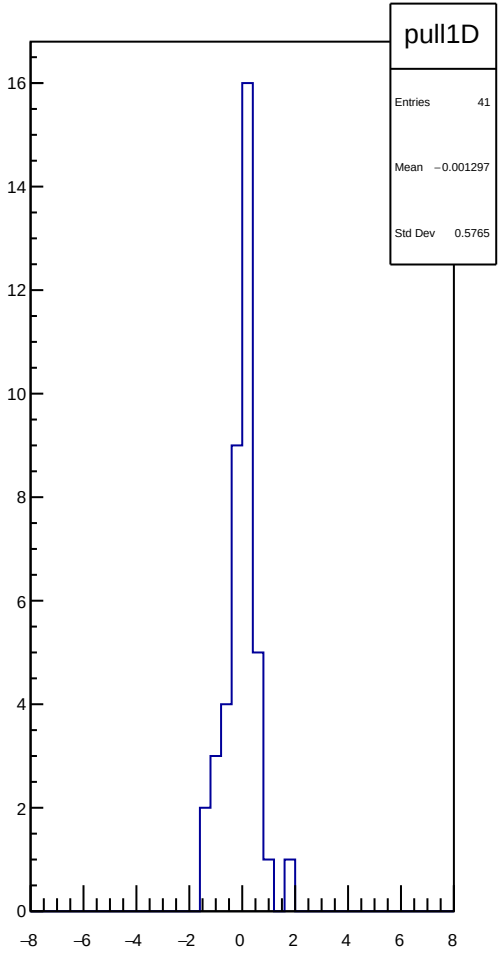

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 69.7 / 40
p0 −99.94 ± 0.3147
pull
Entries 41
Mean 625.2
Std Dev 605.1

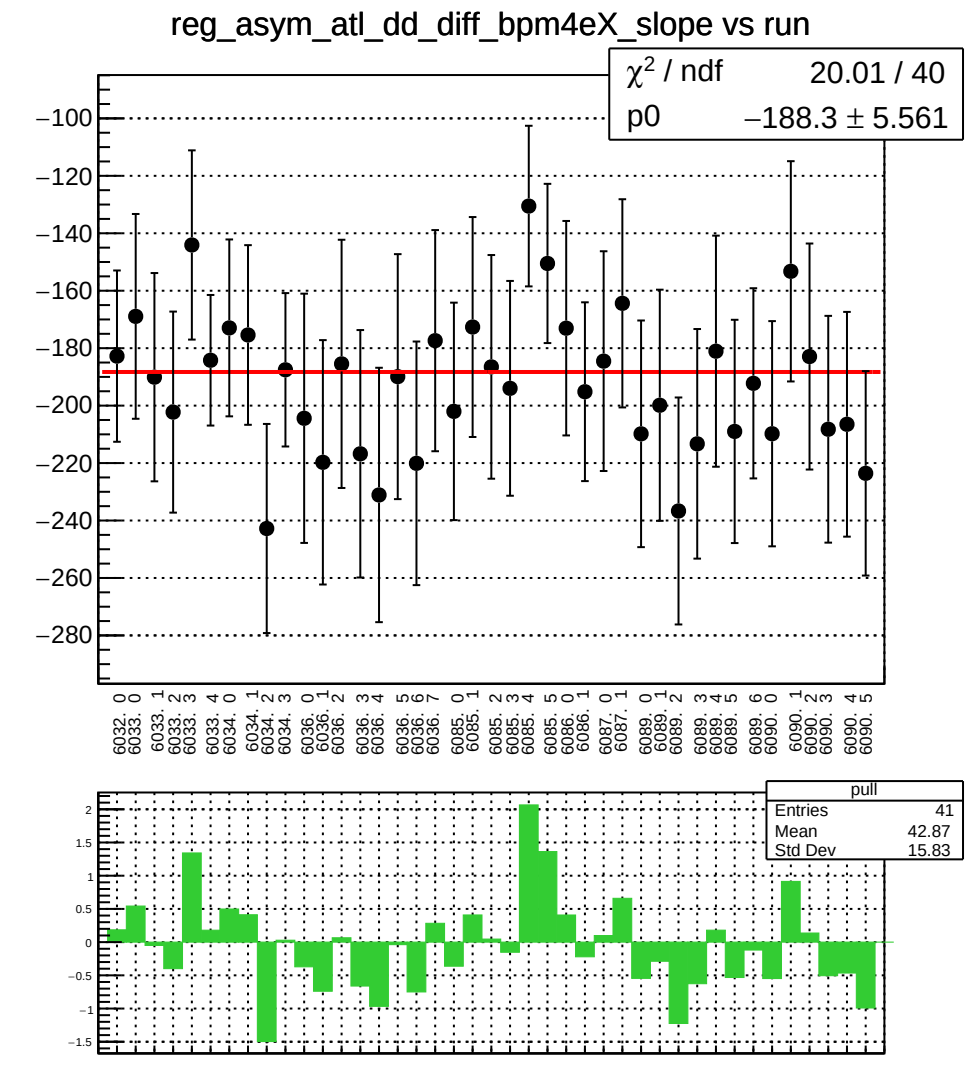

pull1D
Entries 41
Mean −0.01994
Std Dev 1.304

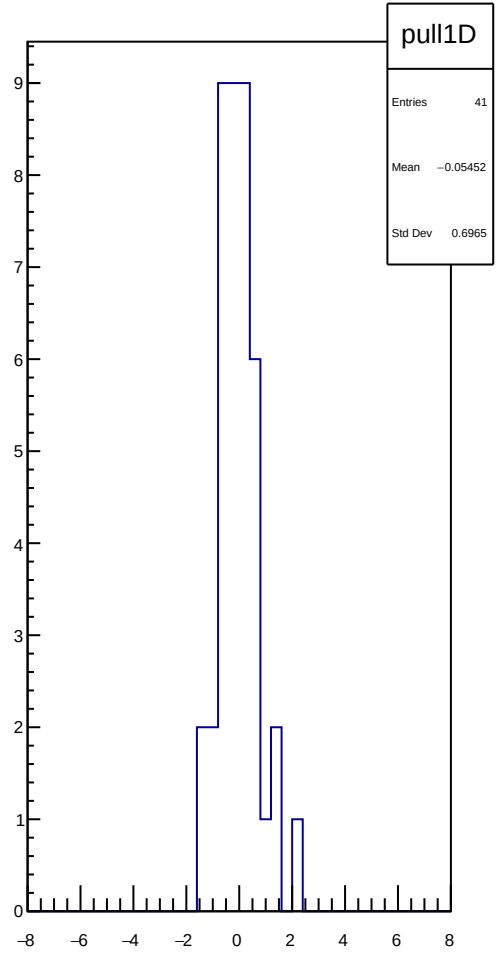

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.63 / 40
p0 197.8 ± 4.973
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −26.12
Std Dev 41.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

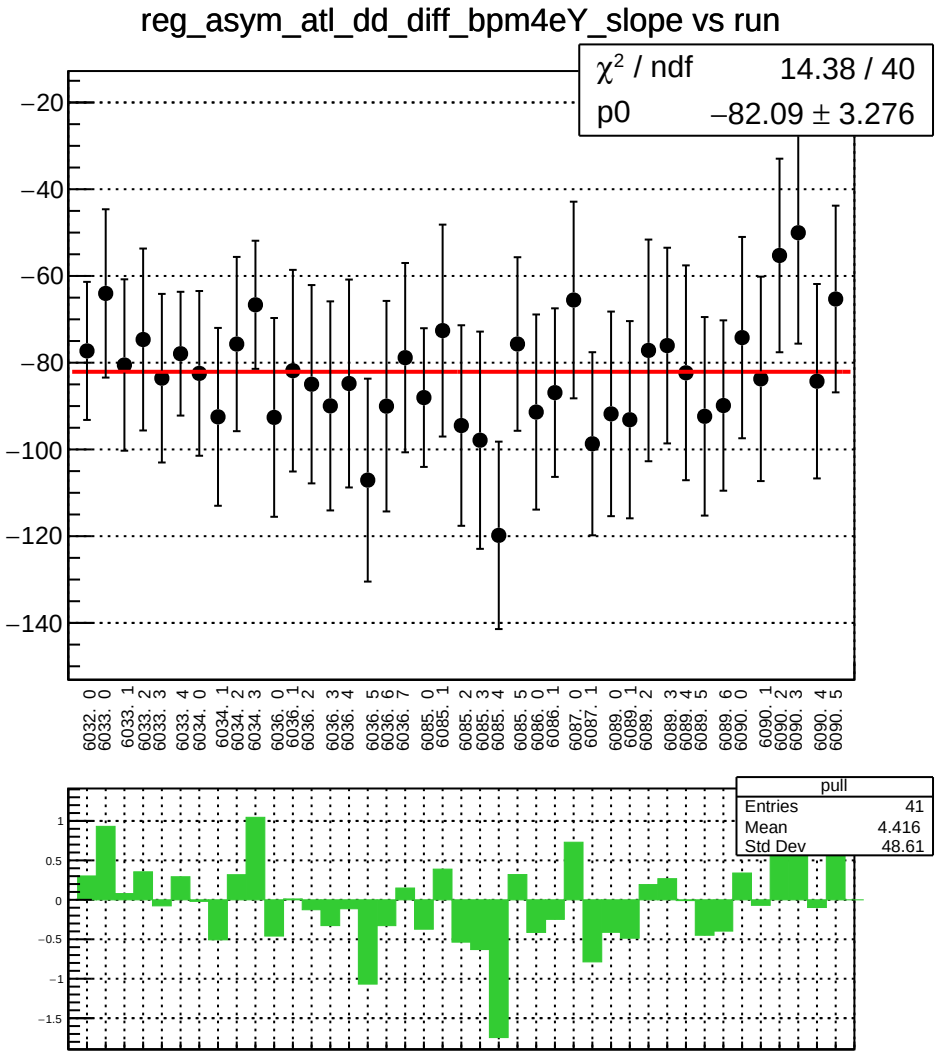

pull1D
Entries 41
Mean 0.06194
Std Dev 0.8334
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

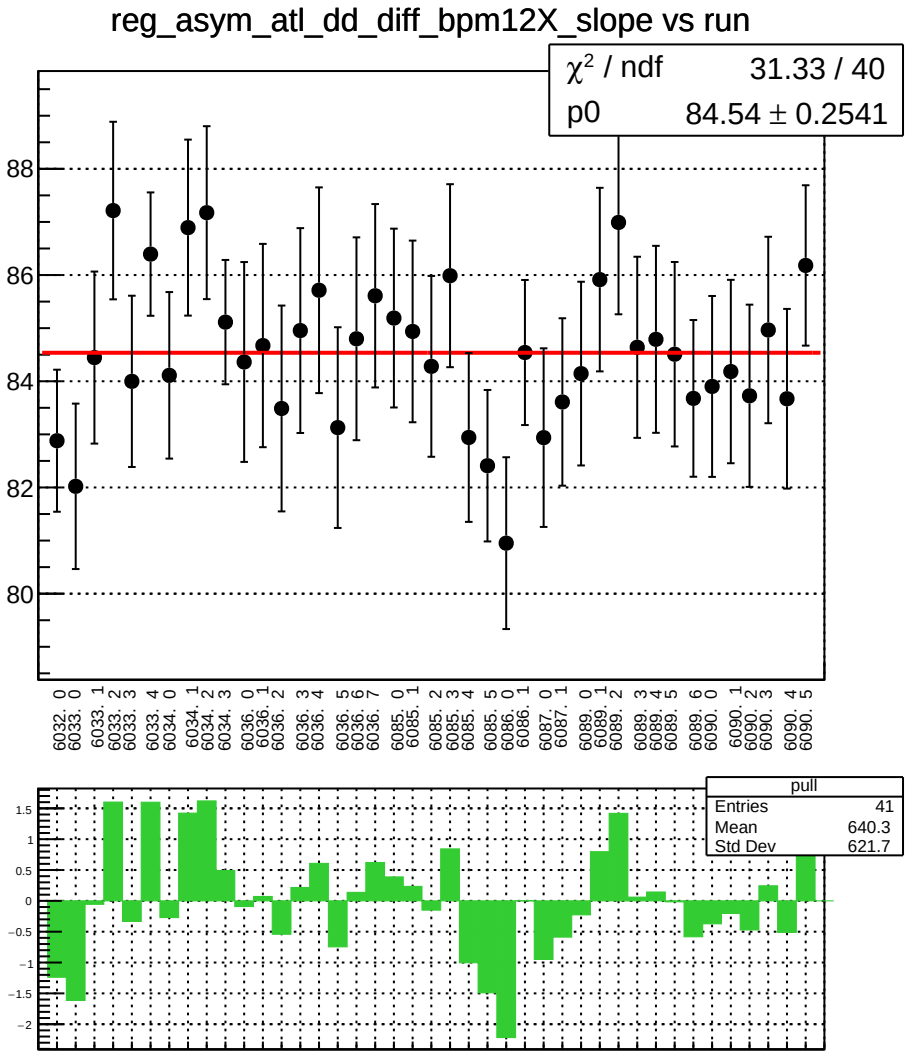

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.62 / 40
p0 20.02 ± 3.044
pull
Entries 41
Mean 1383
Std Dev 1353

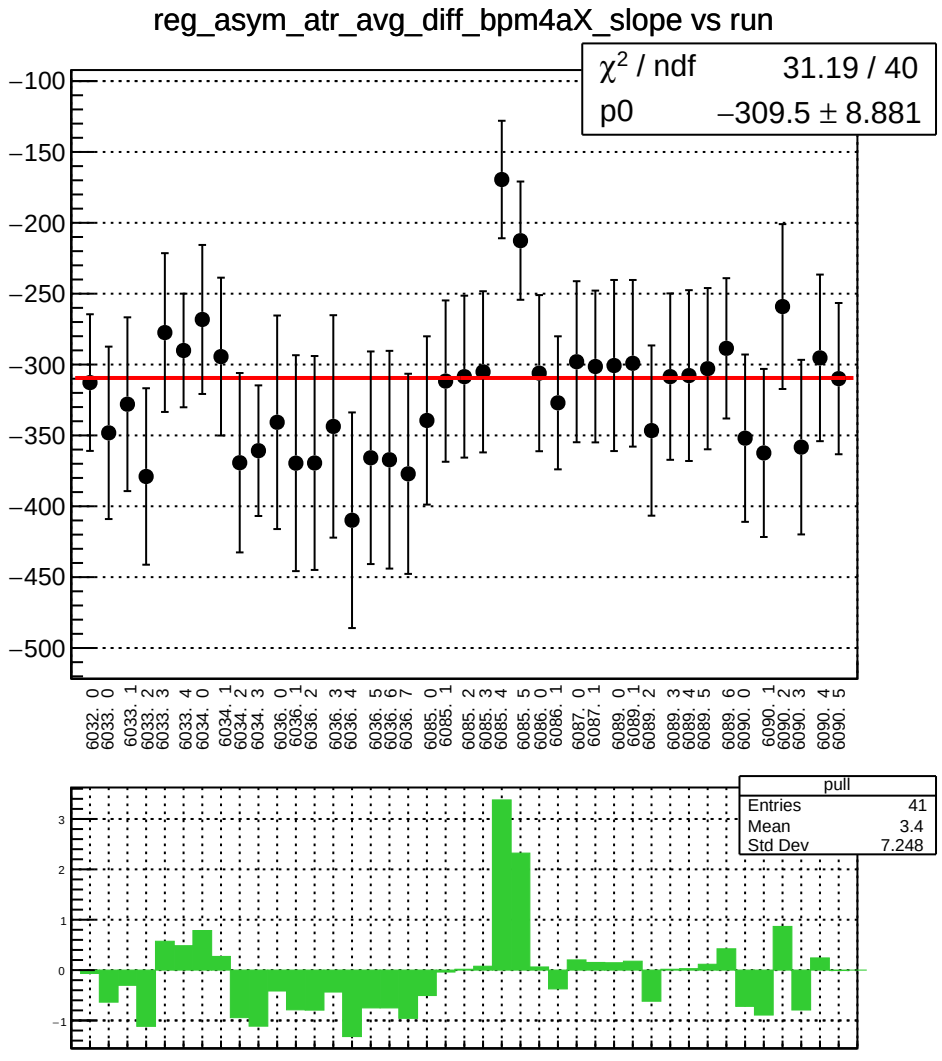

pull1D
Entries 41
Mean −0.001297
Std Dev 0.5765

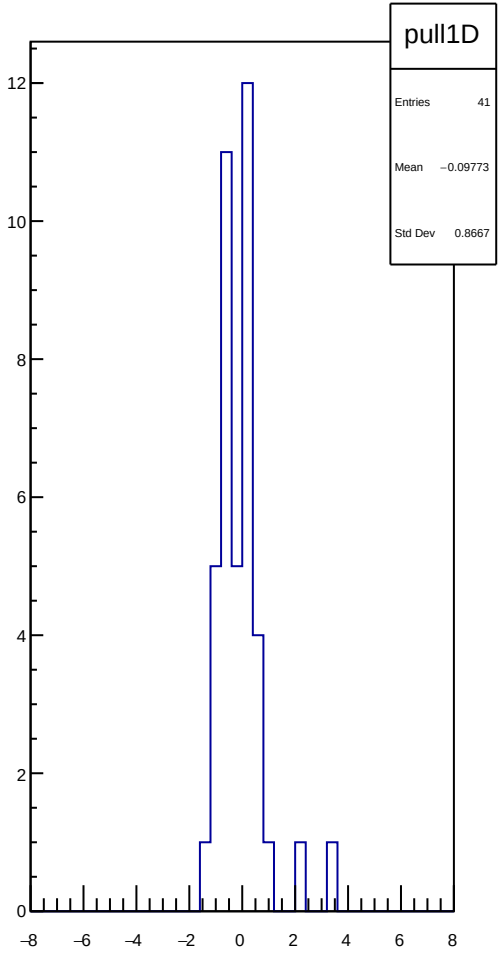

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.01 / 40
p0 −188.3 ± 5.561
pull
Entries 41
Mean 42.87
Std Dev 15.83

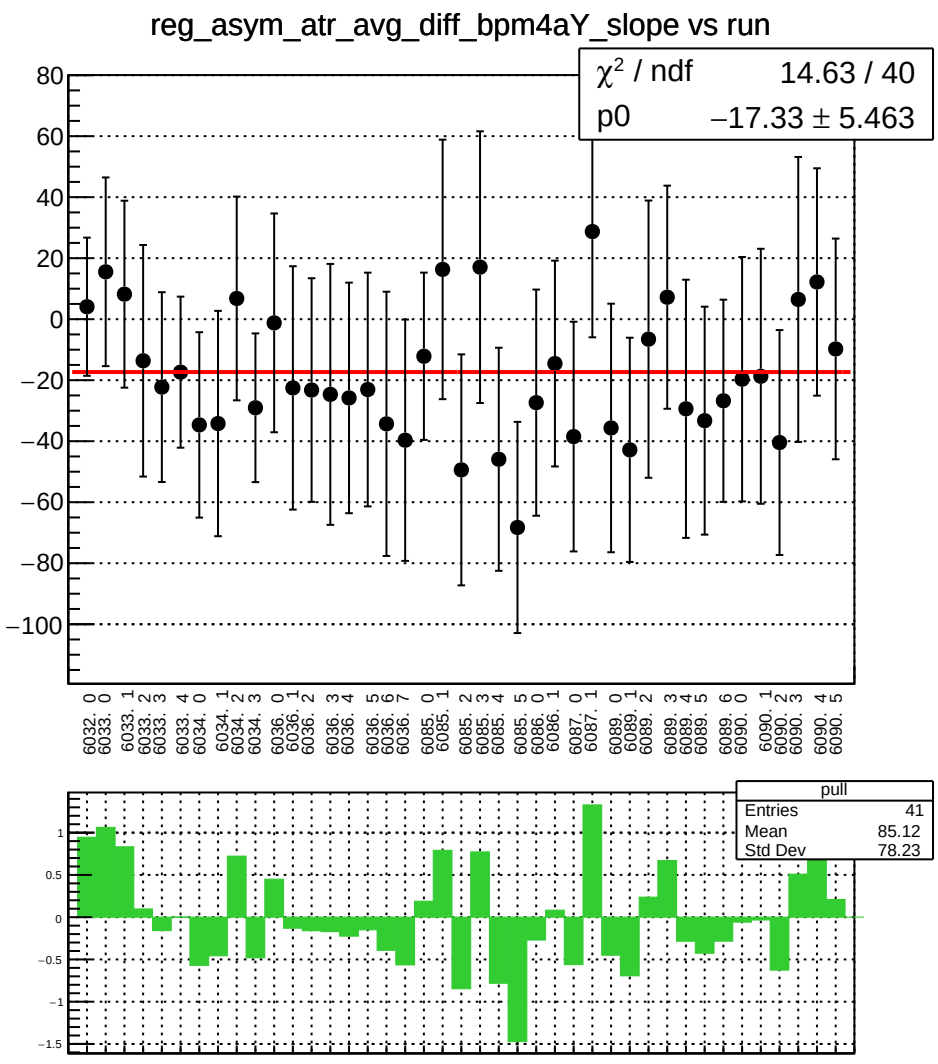

pull1D
Entries 41
Mean −0.05452
Std Dev 0.6965

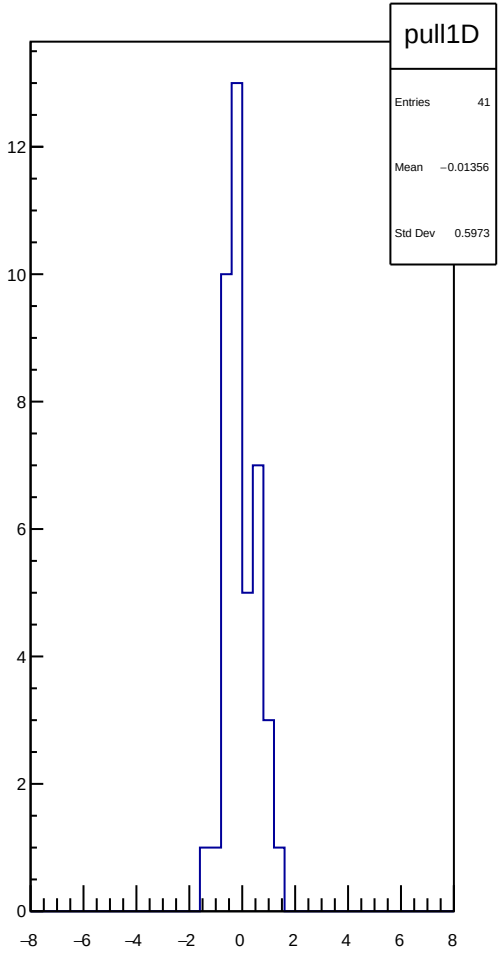

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.38 / 40
p0 −82.09 ± 3.276
−20
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 4.416
Std Dev 48.61
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01738
Std Dev 0.592
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

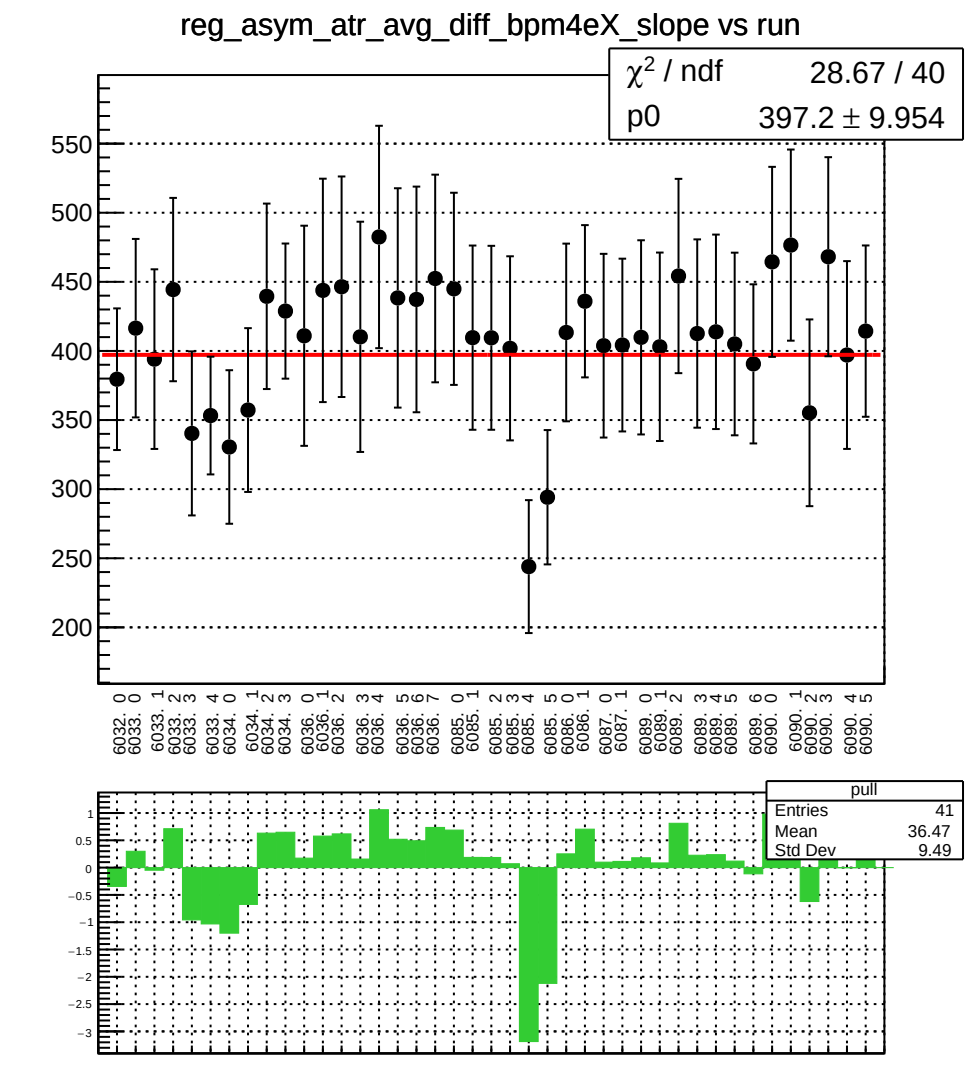

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 31.33 / 40
p0 84.54 ± 0.2541
88
86
84
82
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 640.3
Std Dev 621.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.001589
Std Dev 0.8742
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

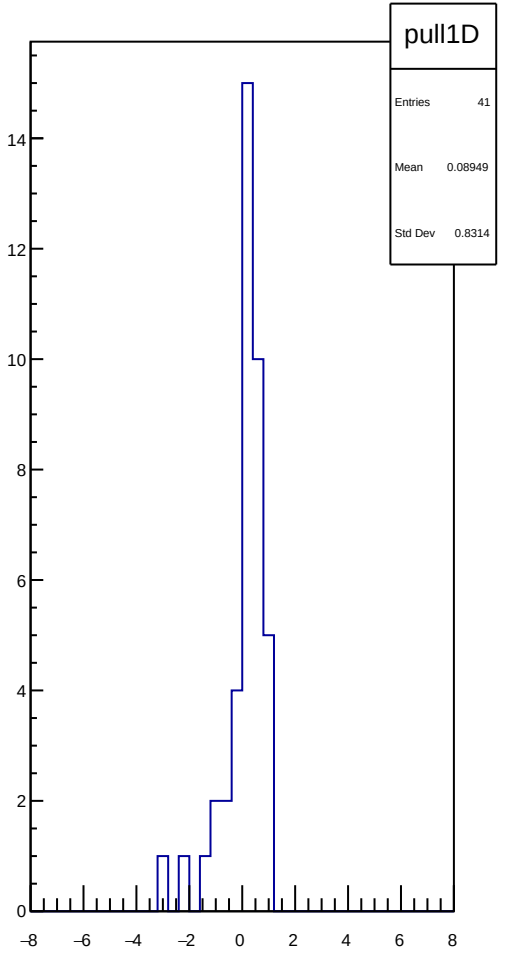

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.19 / 40
p0 −309.5 ± 8.881
pull
Entries 41
Mean 3.4
Std Dev 7.248

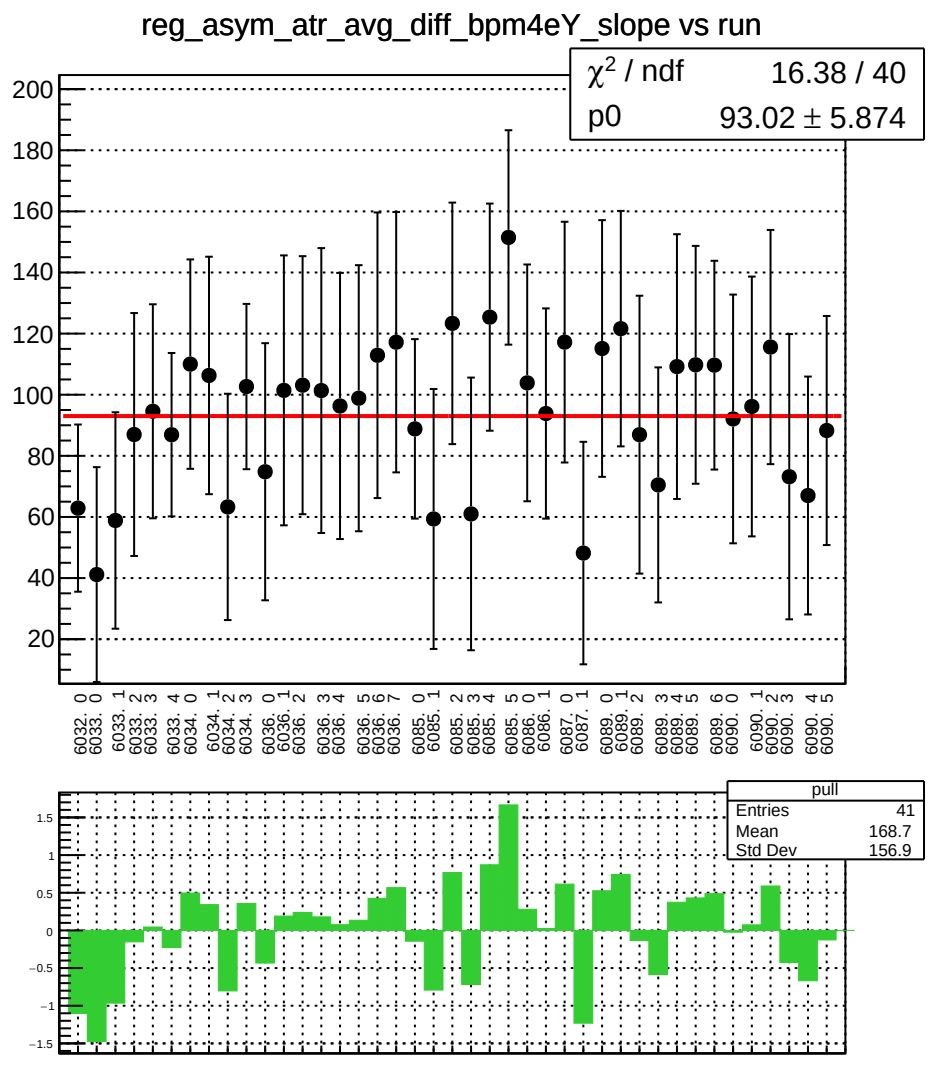

pull1D
Entries 41
Mean −0.09773
Std Dev 0.8667

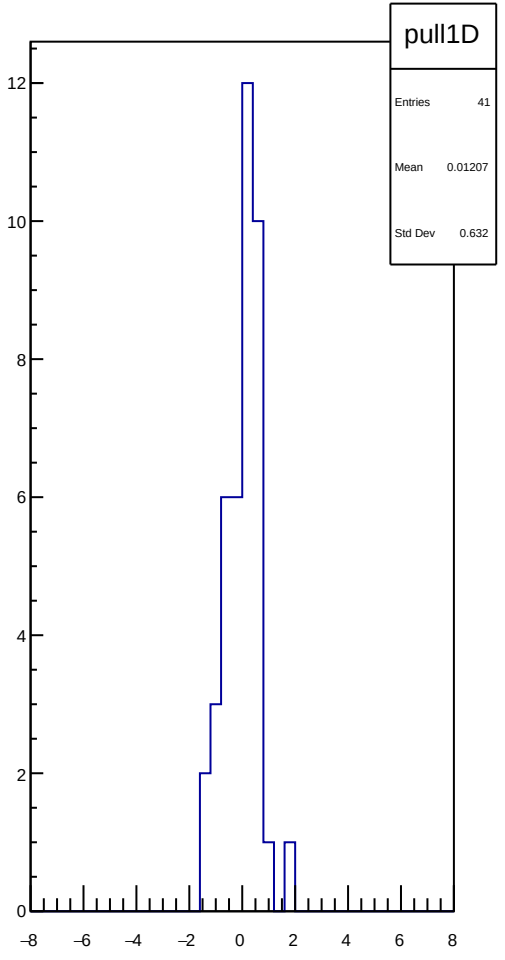

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.63 / 40
p0 −17.33 ± 5.463
pull
Entries 41
Mean 85.12
Std Dev 78.23

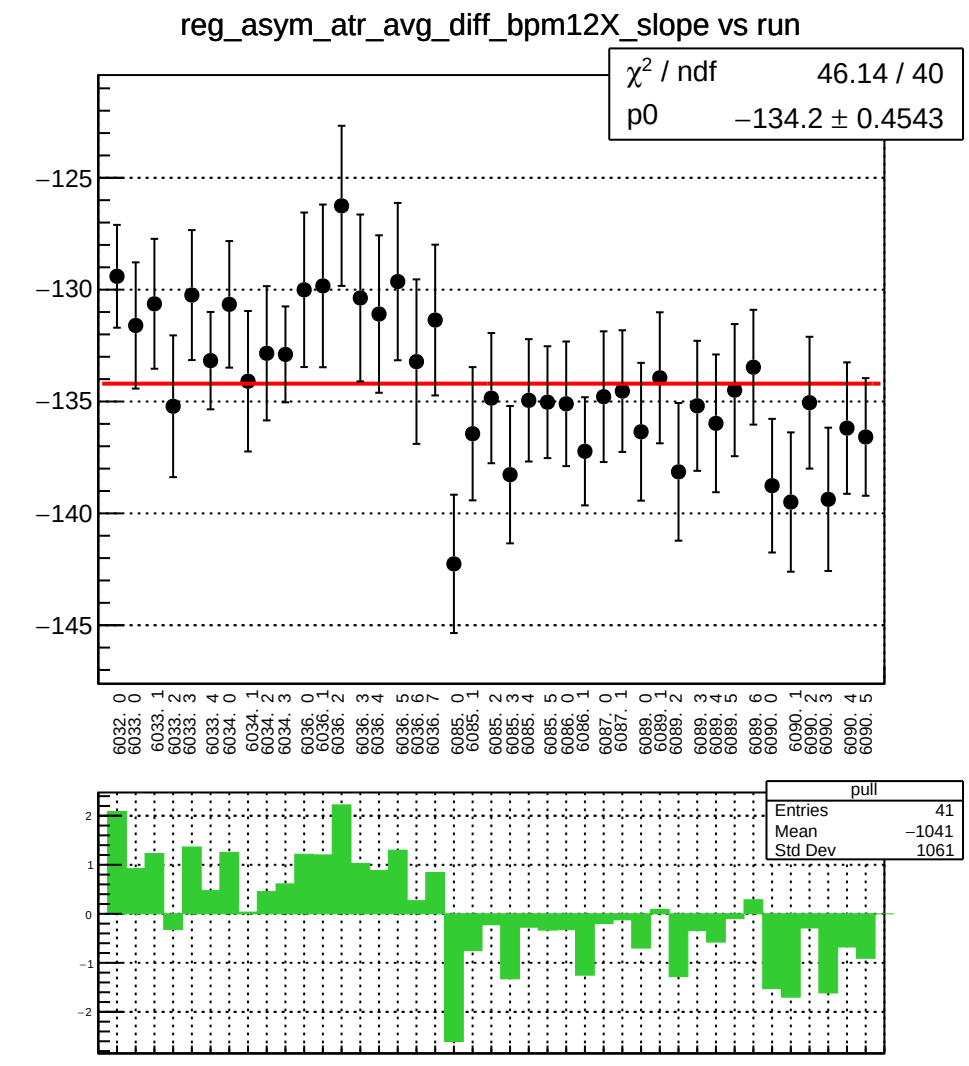

pull1D
Entries 41
Mean −0.01356
Std Dev 0.5973

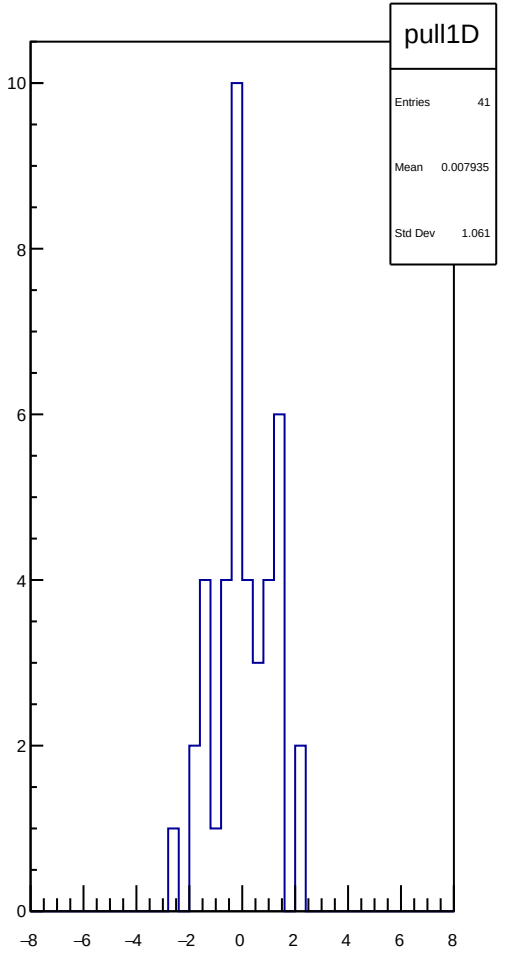

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.67 / 40
p0 397.2 ± 9.954
pull
Entries 41
Mean 36.47
Std Dev 9.49

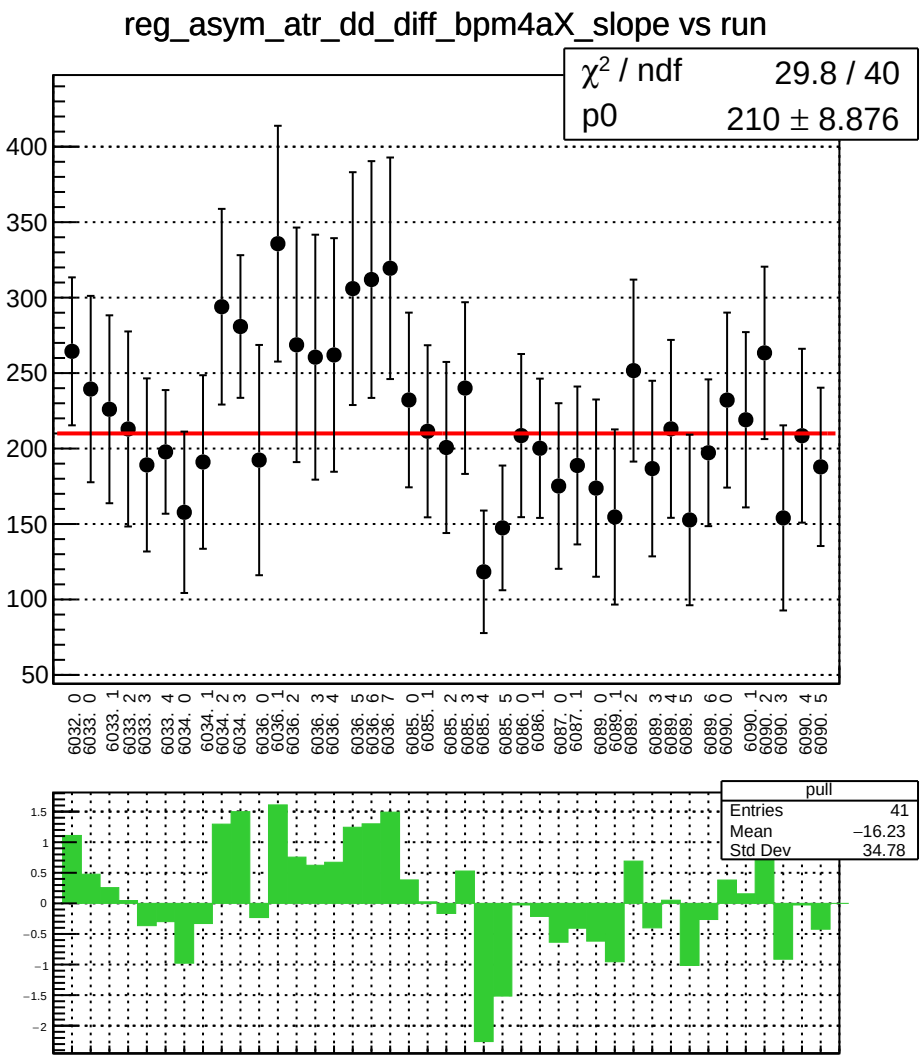

pull1D
Entries 41
Mean 0.08949
Std Dev 0.8314

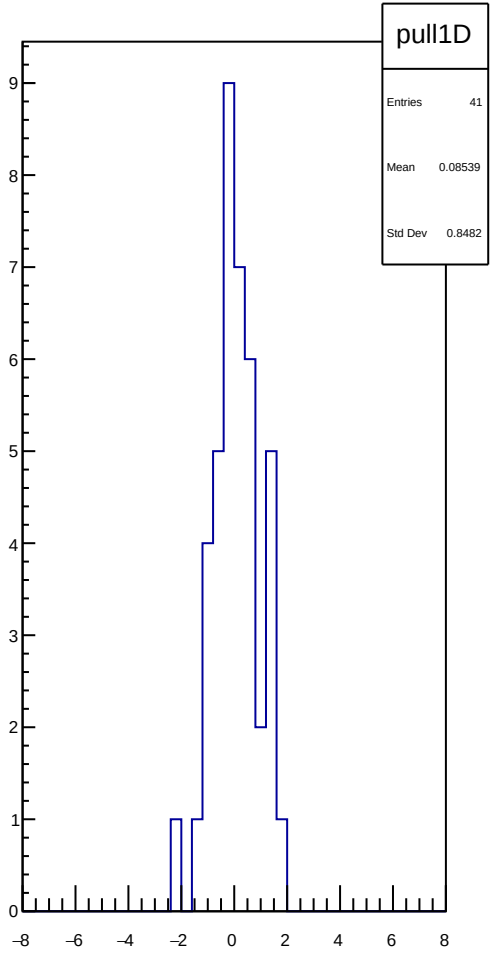

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.38 / 40
p0 93.02 ± 5.874
pull
Entries 41
Mean 168.7
Std Dev 156.9

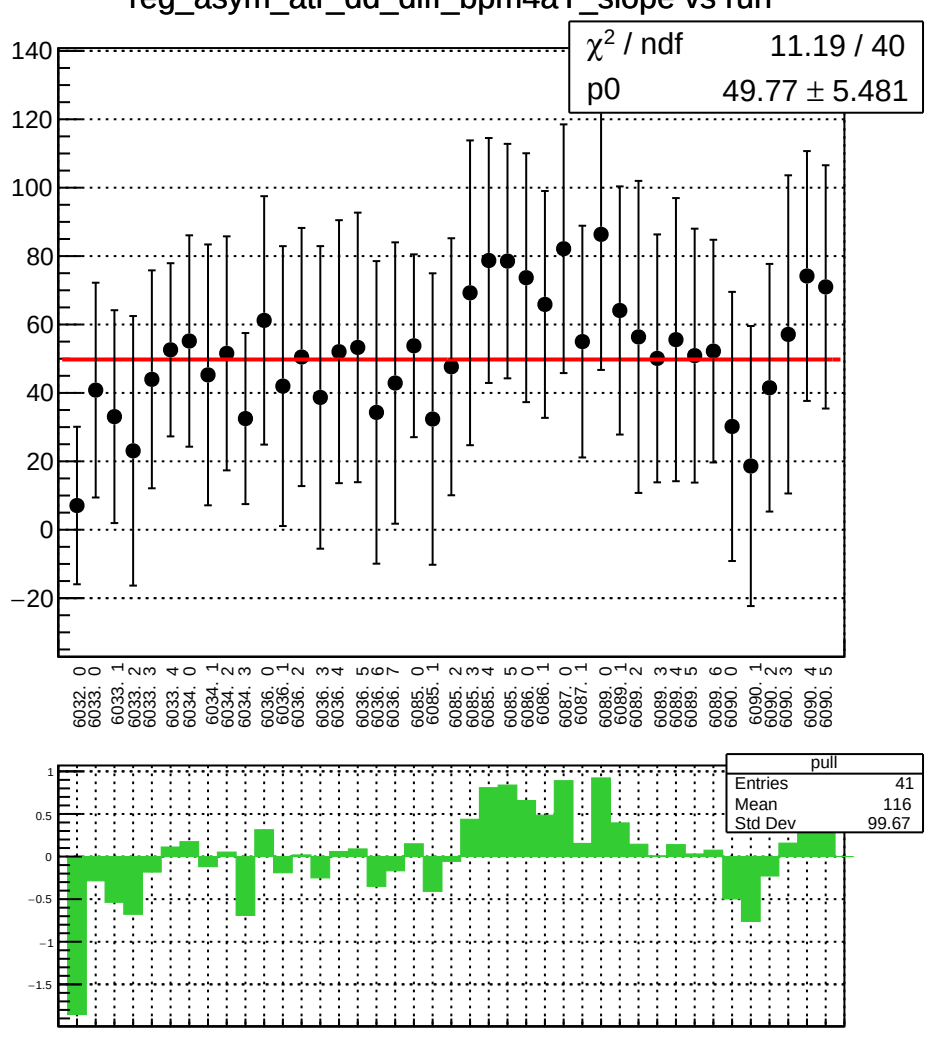

pull1D
Entries 41
Mean 0.01207
Std Dev 0.632

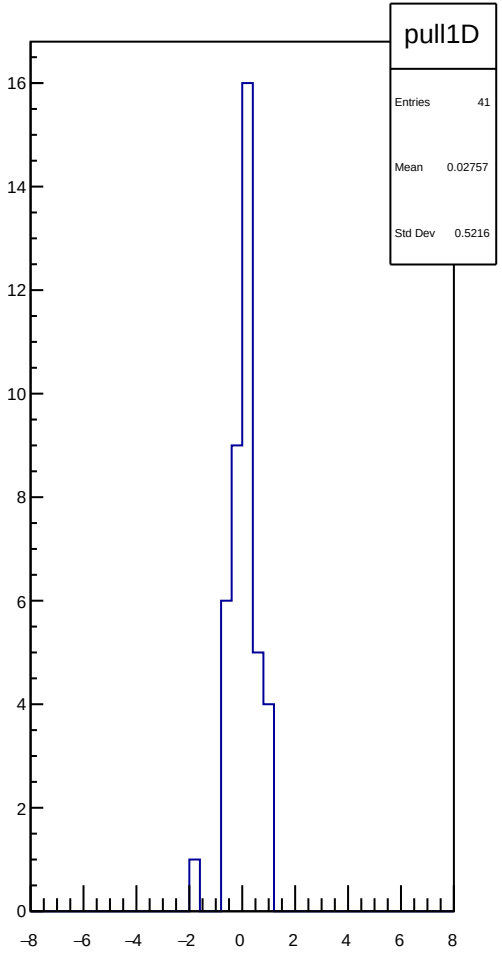

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 46.14 / 40
p0 −134.2 ± 0.4543
−125
−130
−135
−140
−145
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −1041
Std Dev 1061
2
1
0
−1
−2

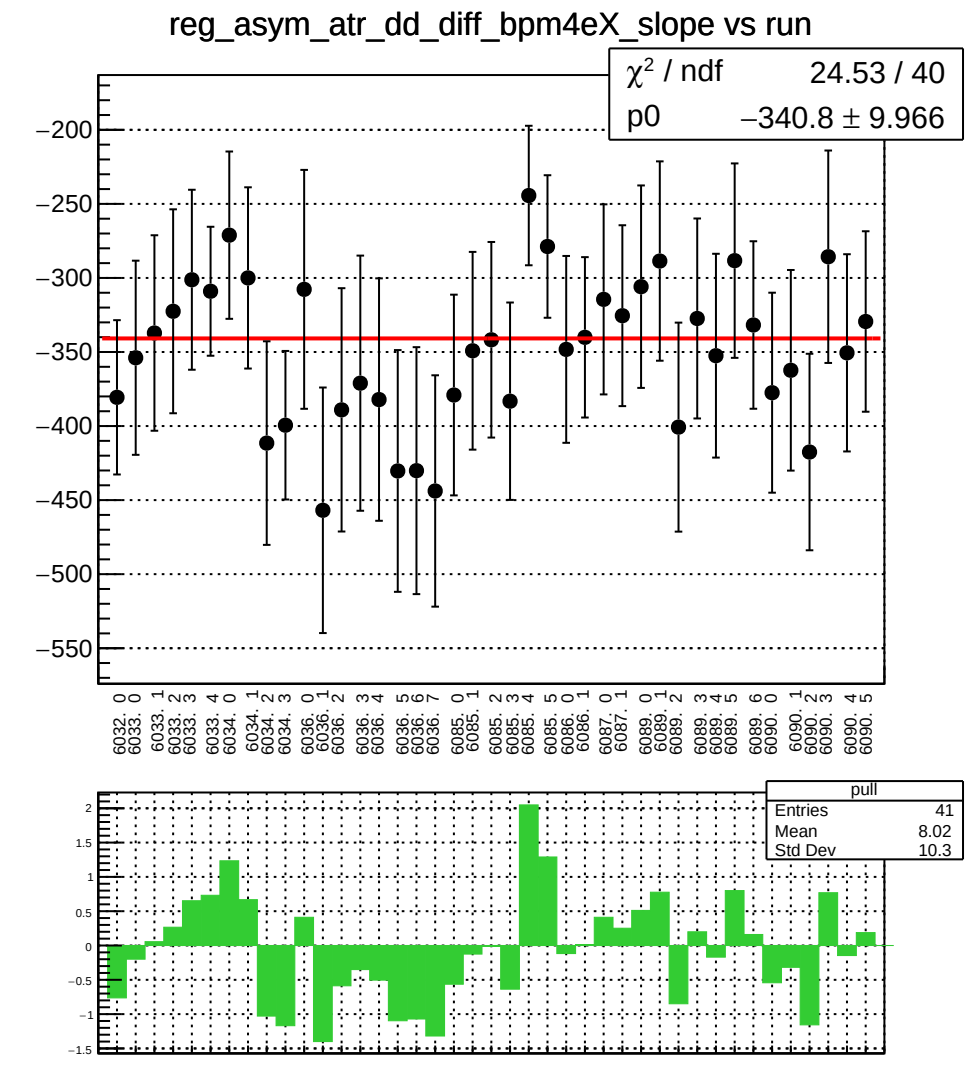

pull1D
Entries 41
Mean 0.007935
Std Dev 1.061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

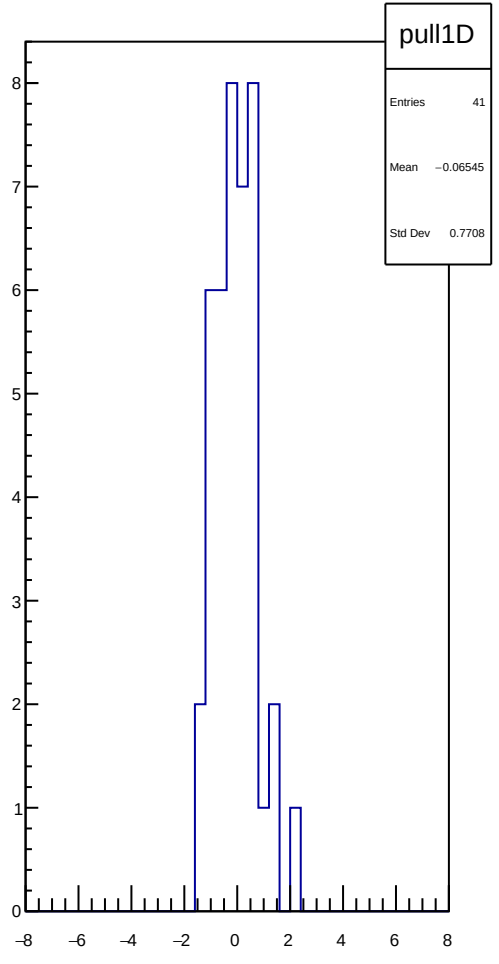

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 29.8 / 40
p0 210 ± 8.876
pull
Entries 41
Mean −16.23
Std Dev 34.78

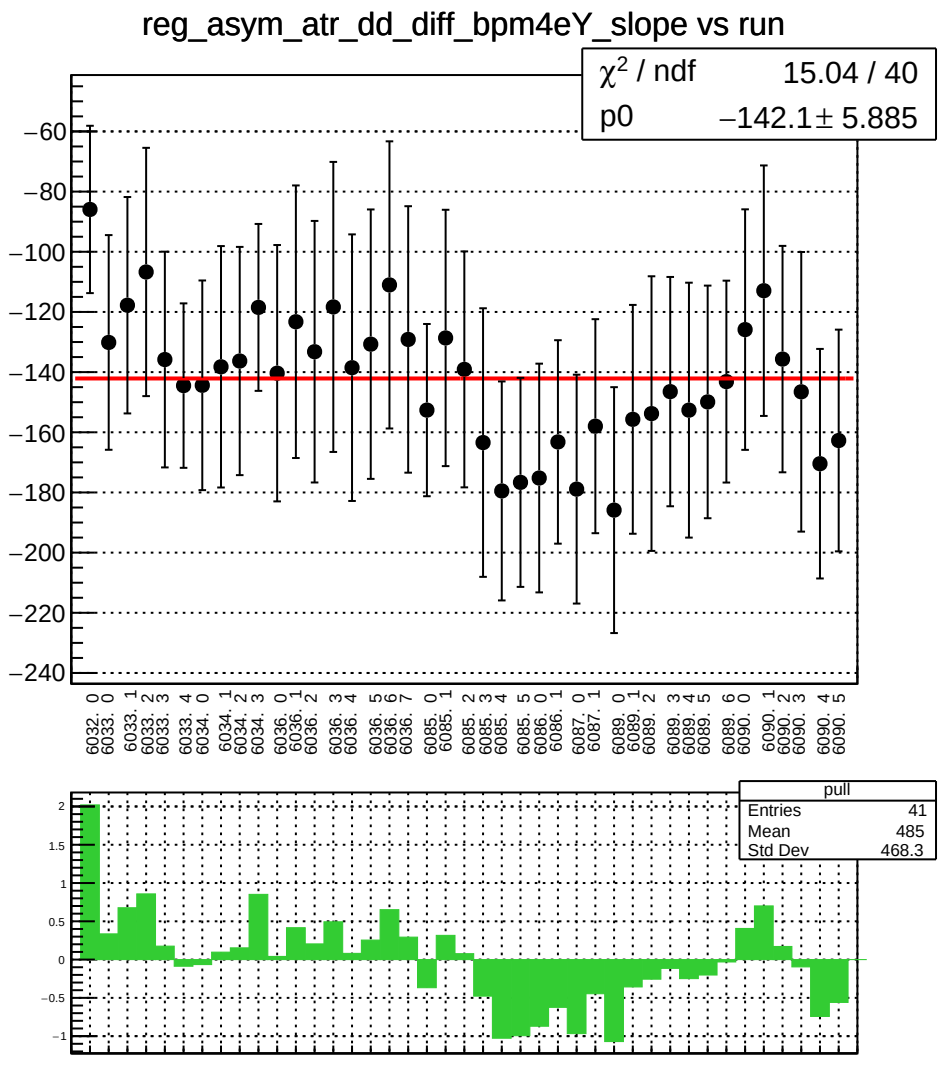

pull1D
Entries 41
Mean 0.08539
Std Dev 0.8482

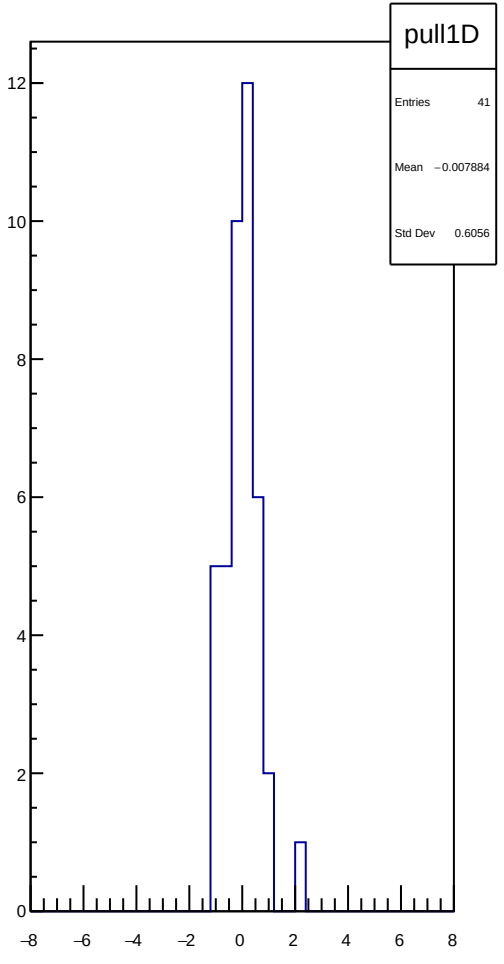

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.19 / 40
p0 49.77 ± 5.481
pull
Entries 41
Mean 116
Std Dev 99.67

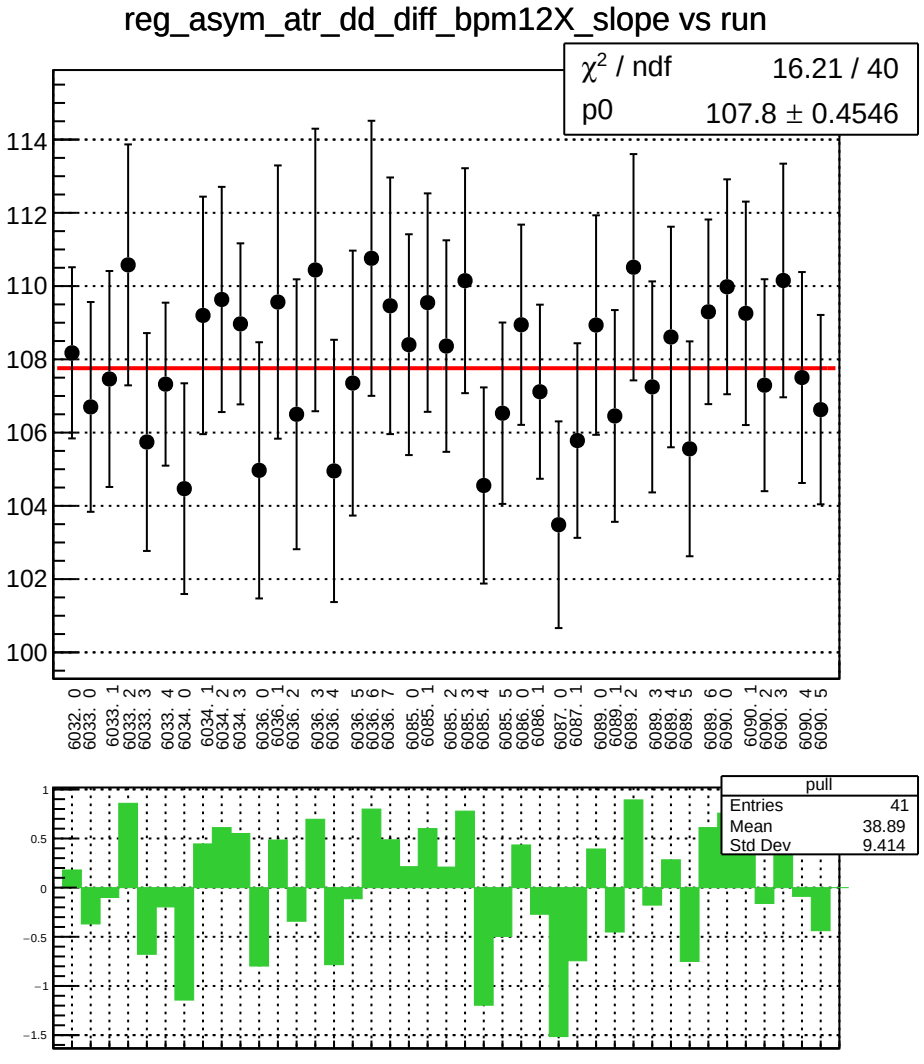

pull1D
Entries 41
Mean 0.02757
Std Dev 0.5216

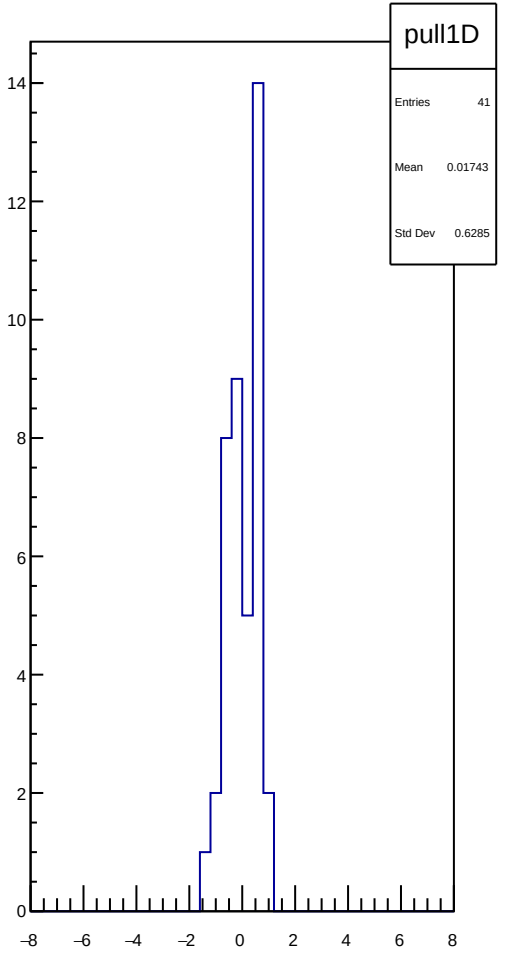

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.53 / 40
p0 −340.8 ± 9.966
pull
Entries 41
Mean 8.02
Std Dev 10.3

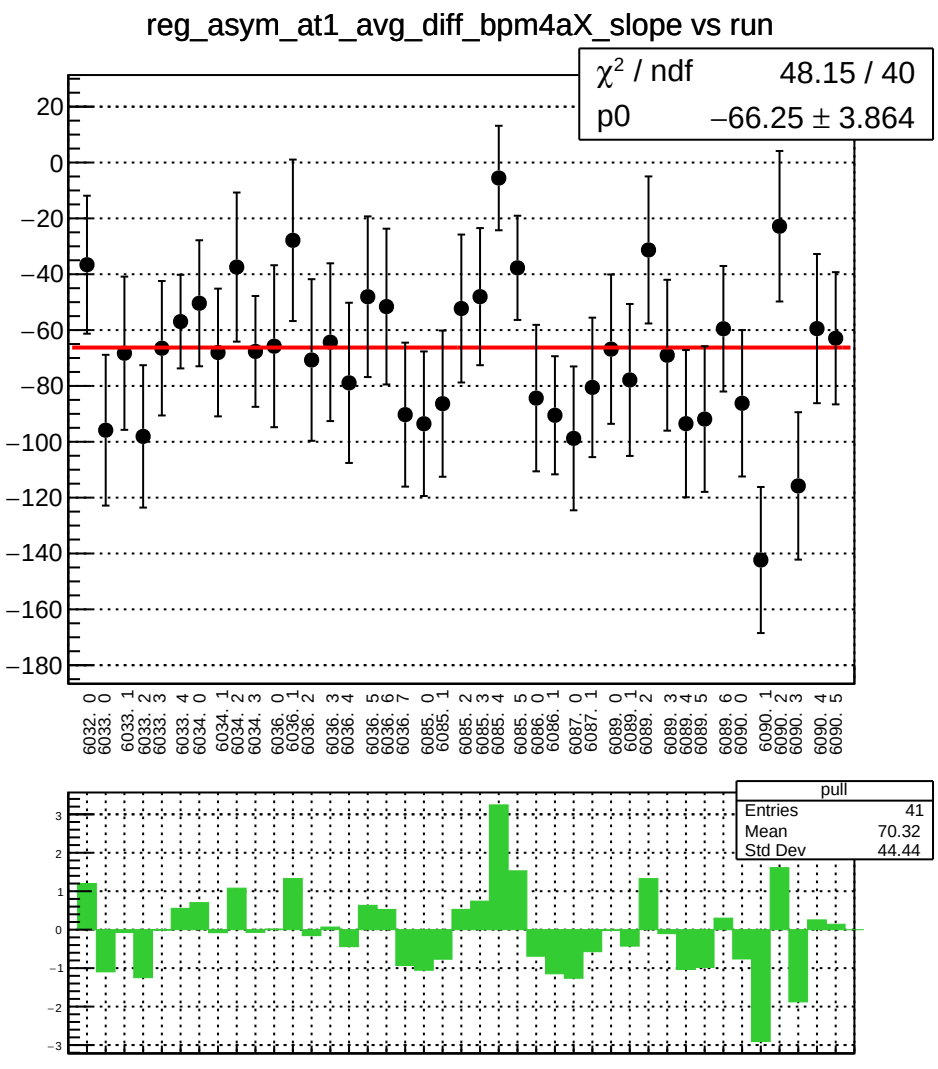

pull1D
Entries 41
Mean −0.06545
Std Dev 0.7708

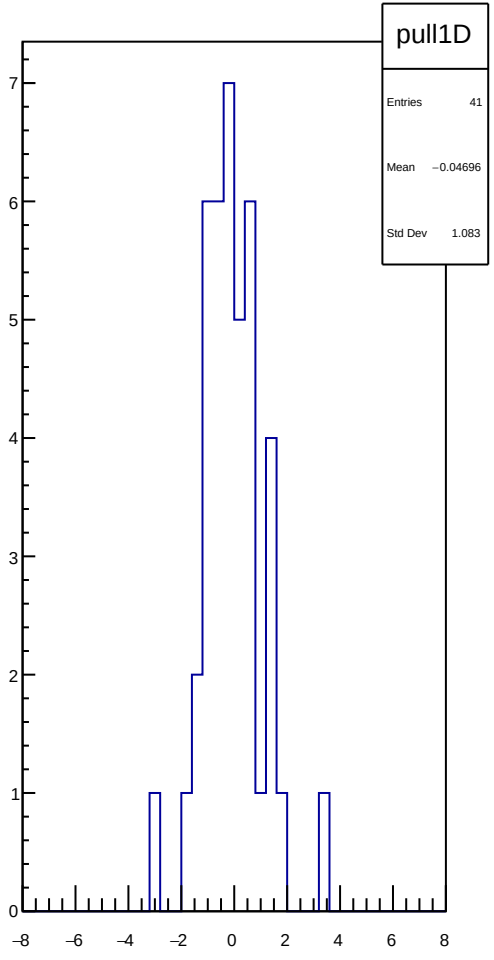

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.04 / 40
p0 −142.1 ± 5.885
pull
Entries 41
Mean 485
Std Dev 468.3

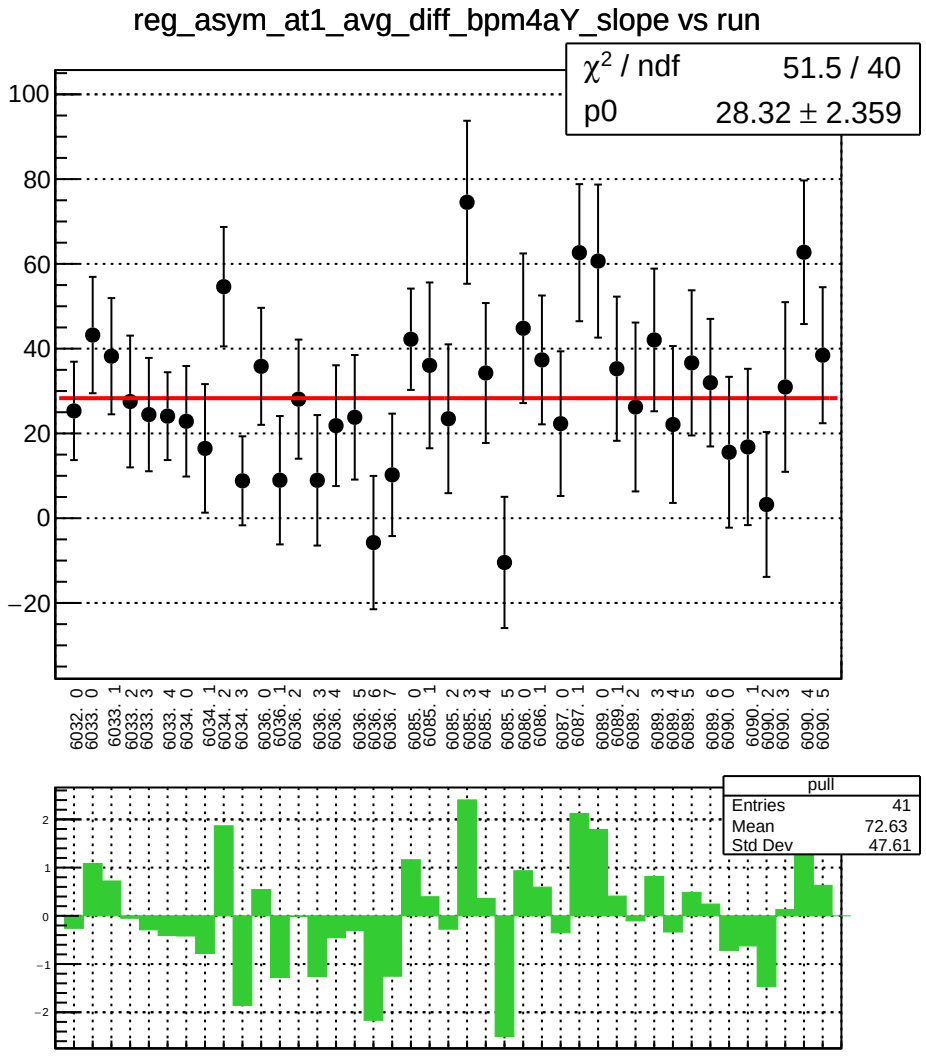

pull1D
Entries 41
Mean −0.007884
Std Dev 0.6056

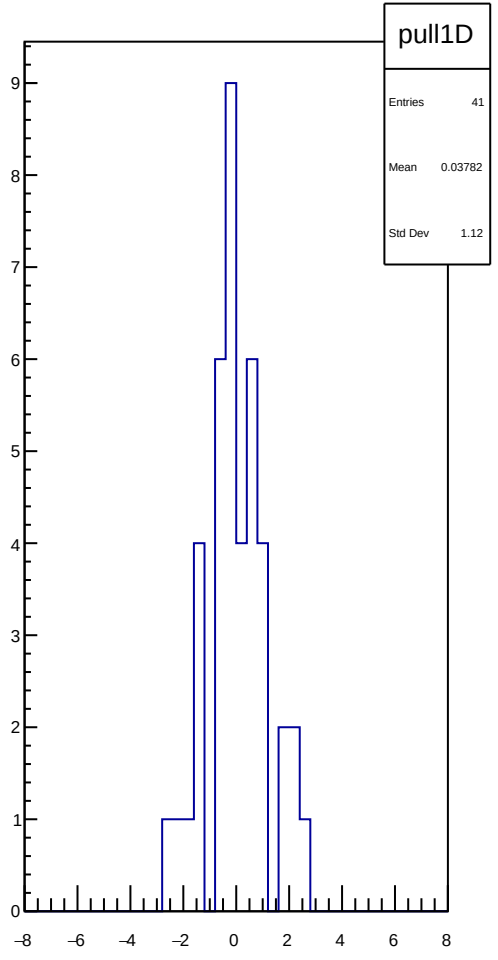

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 16.21 / 40
p0 107.8 ± 0.4546
pull
Entries 41
Mean 38.89
Std Dev 9.414

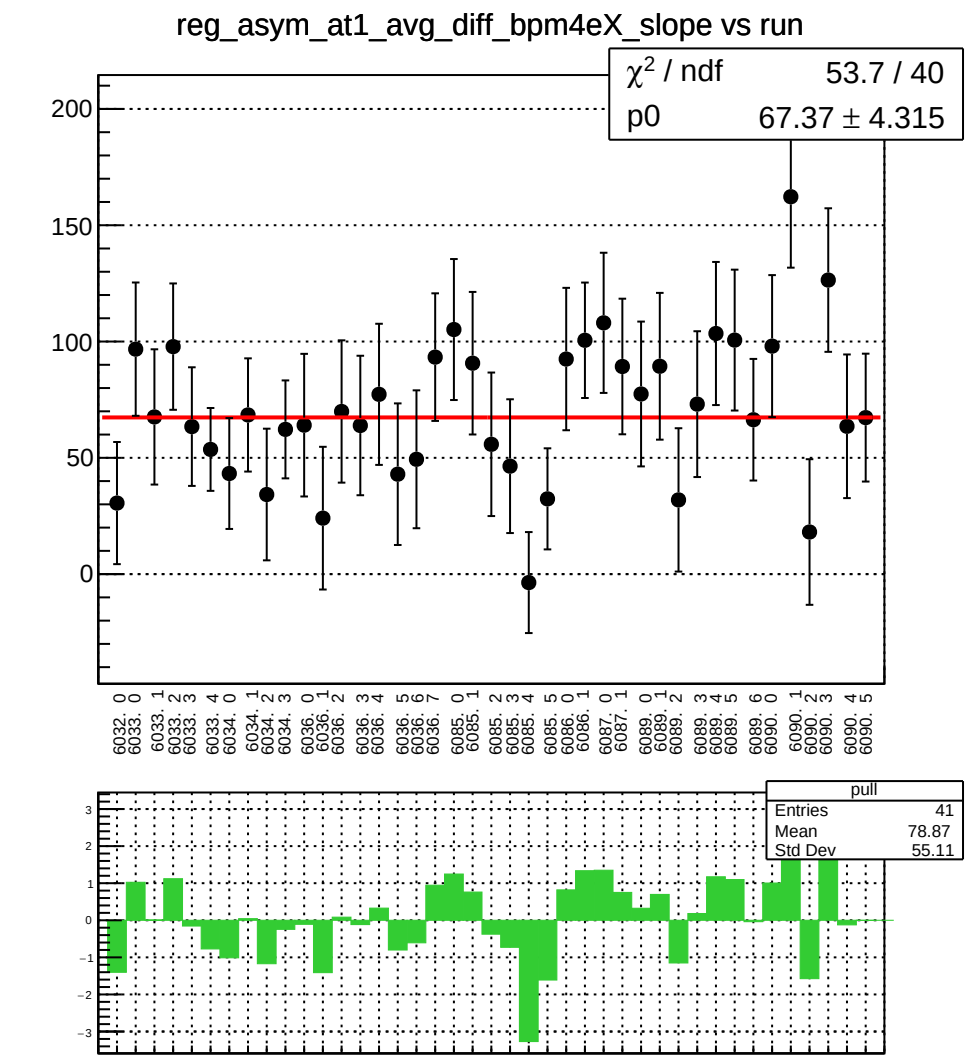

pull1D
Entries 41
Mean 0.01743
Std Dev 0.6285

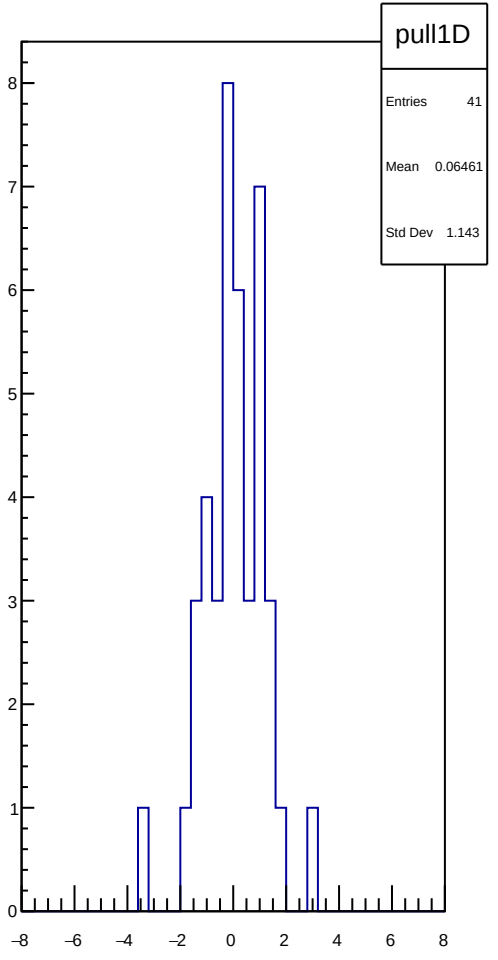

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.15 / 40
p0 −66.25 ± 3.864
pull
Entries 41
Mean 70.32
Std Dev 44.44

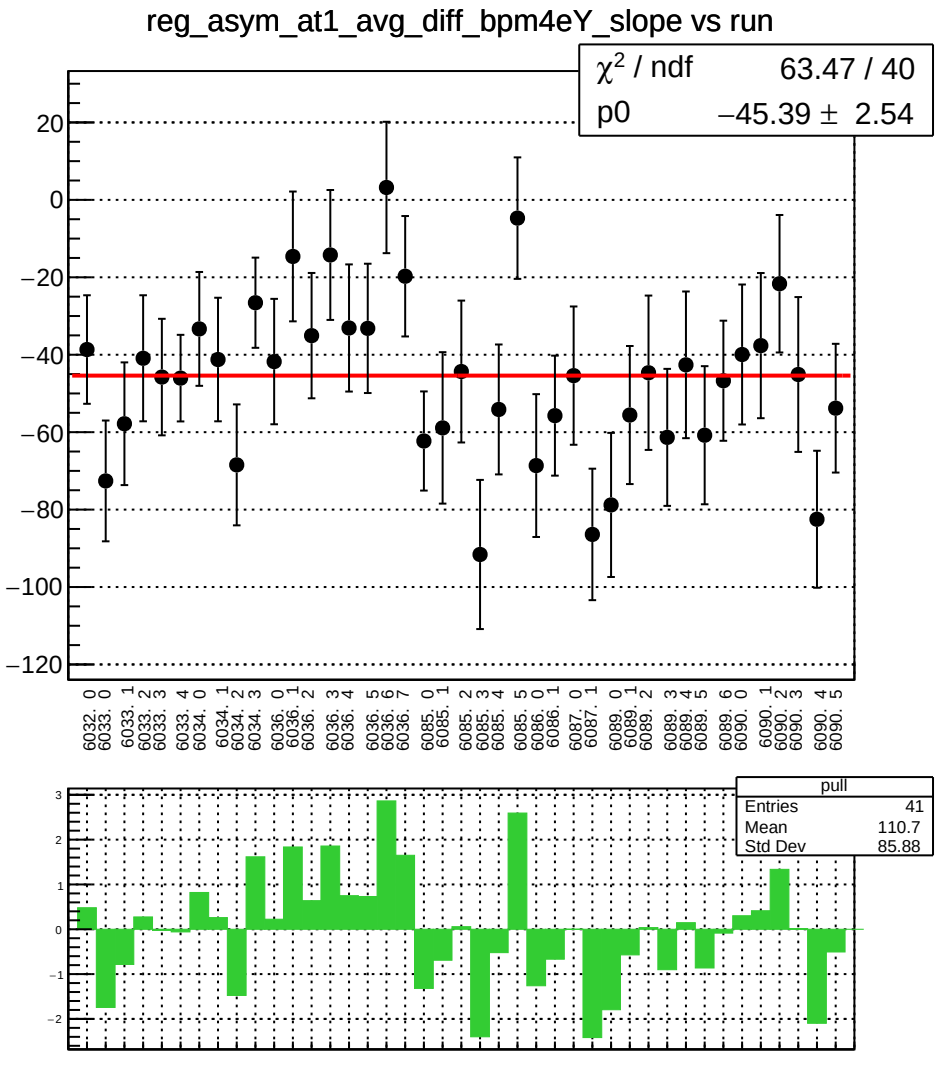

pull1D
Entries 41
Mean −0.04696
Std Dev 1.083

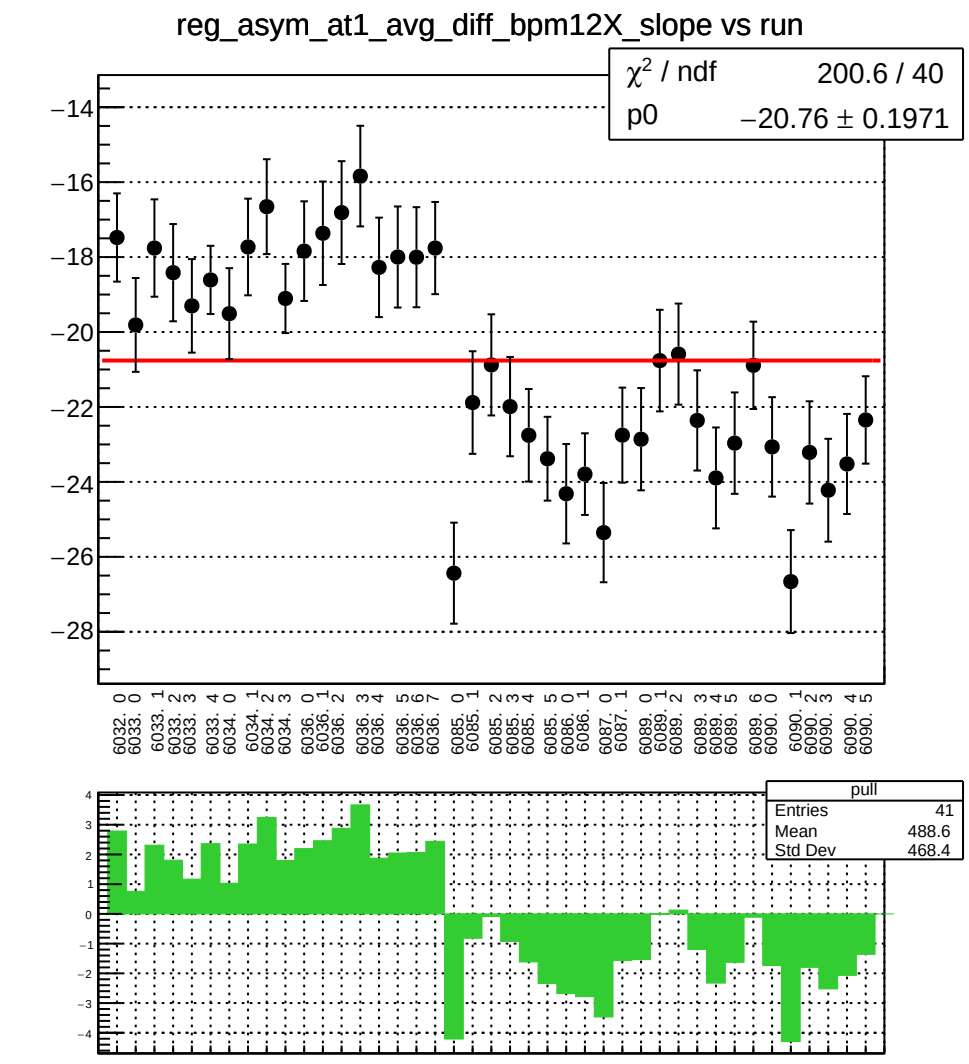

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.5 / 40
p0 28.32 ± 2.359
pull
Entries 41
Mean 72.63
Std Dev 47.61

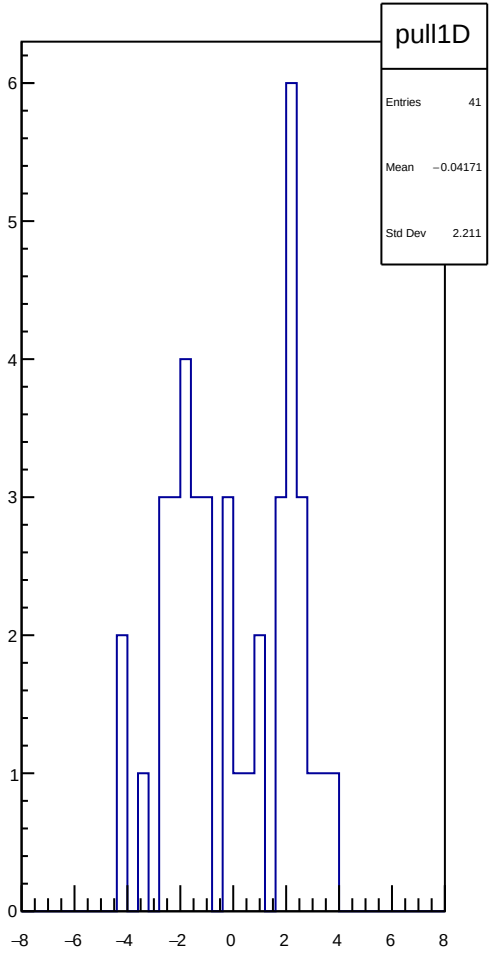

pull1D
Entries 41
Mean 0.03782
Std Dev 1.12

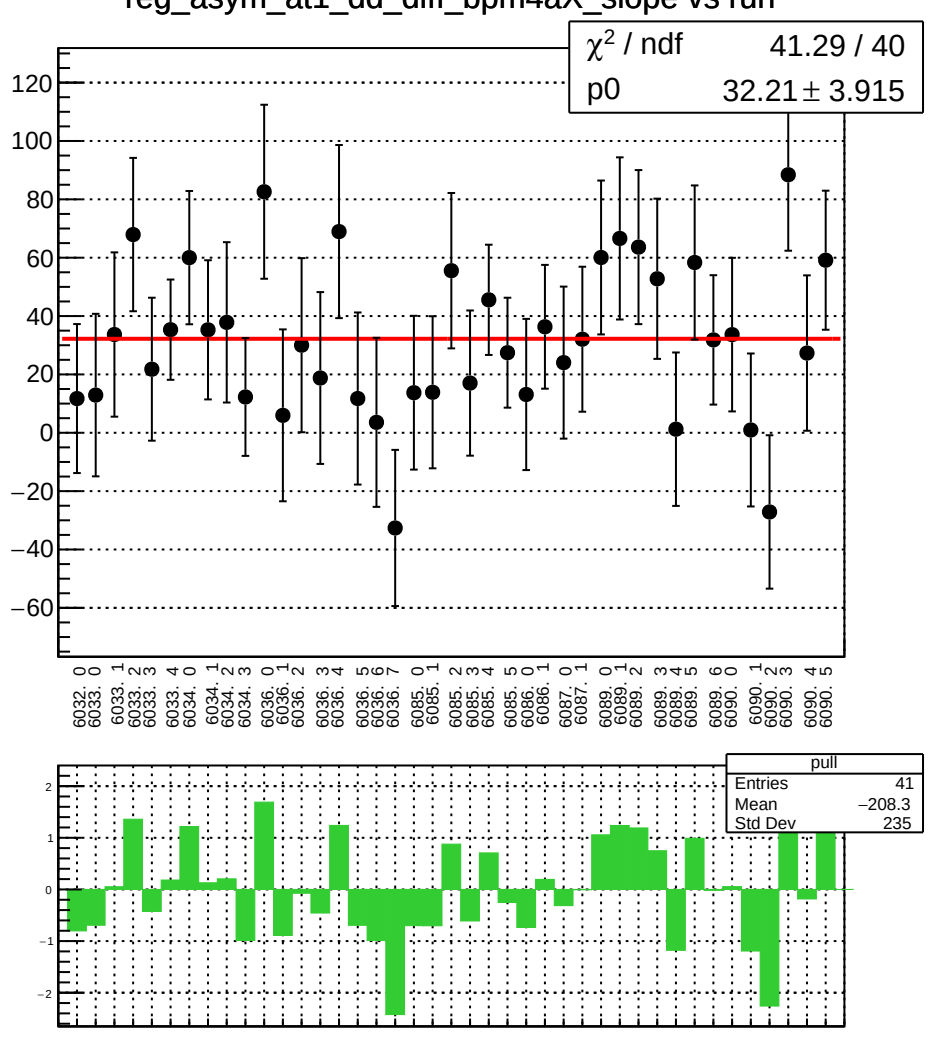

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.7 / 40
p0 67.37 ± 4.315
200
150
100
50
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 78.87
Std Dev 55.11
3
2
1
0
−1
−2
−3

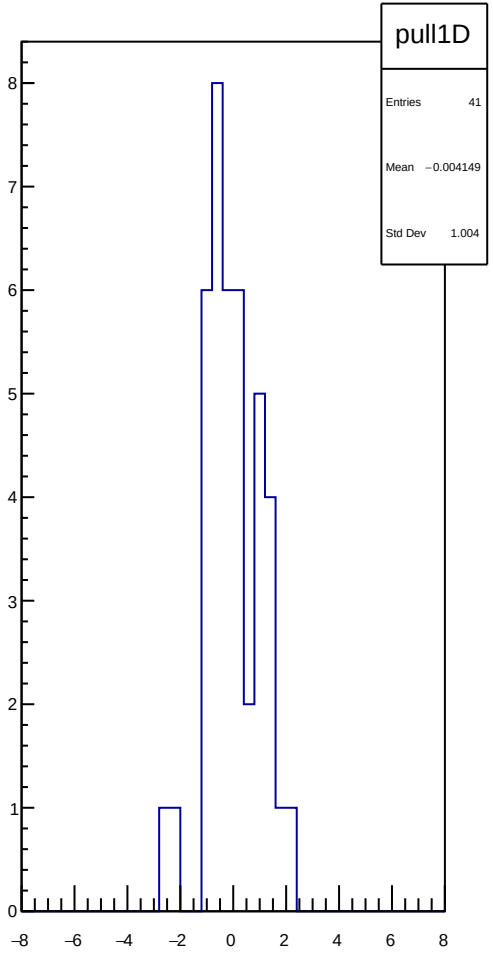

pull1D
Entries 41
Mean 0.06461
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

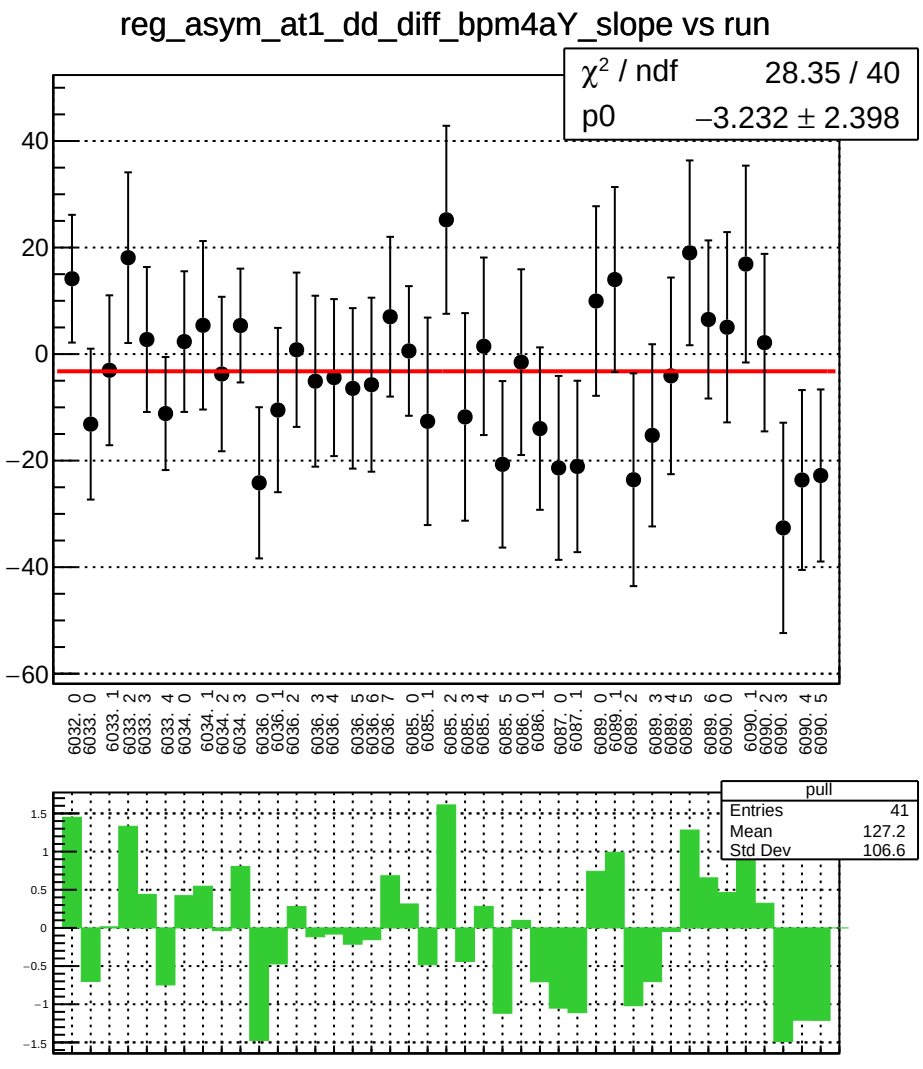

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.47 / 40
p0 −45.39 ± 2.54
20
0
−20
−40
−60
−80
−100
−120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 110.7
Std Dev 85.88
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.03116
Std Dev 1.244
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

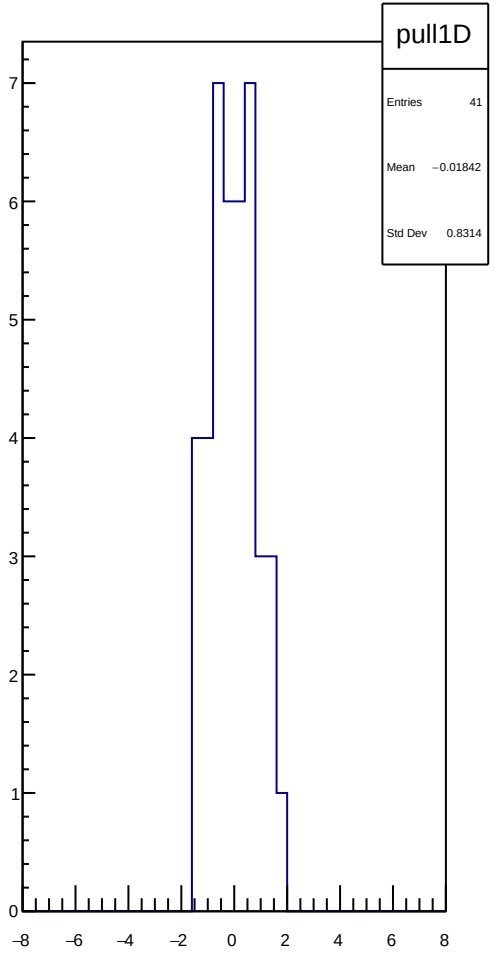

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 200.6 / 40
p0 −20.76 ± 0.1971
−14
−16
−18
−20
−22
−24
−26
−28
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 488.6
Std Dev 468.4
4
3
2
1
0
−1
−2
−3
−4

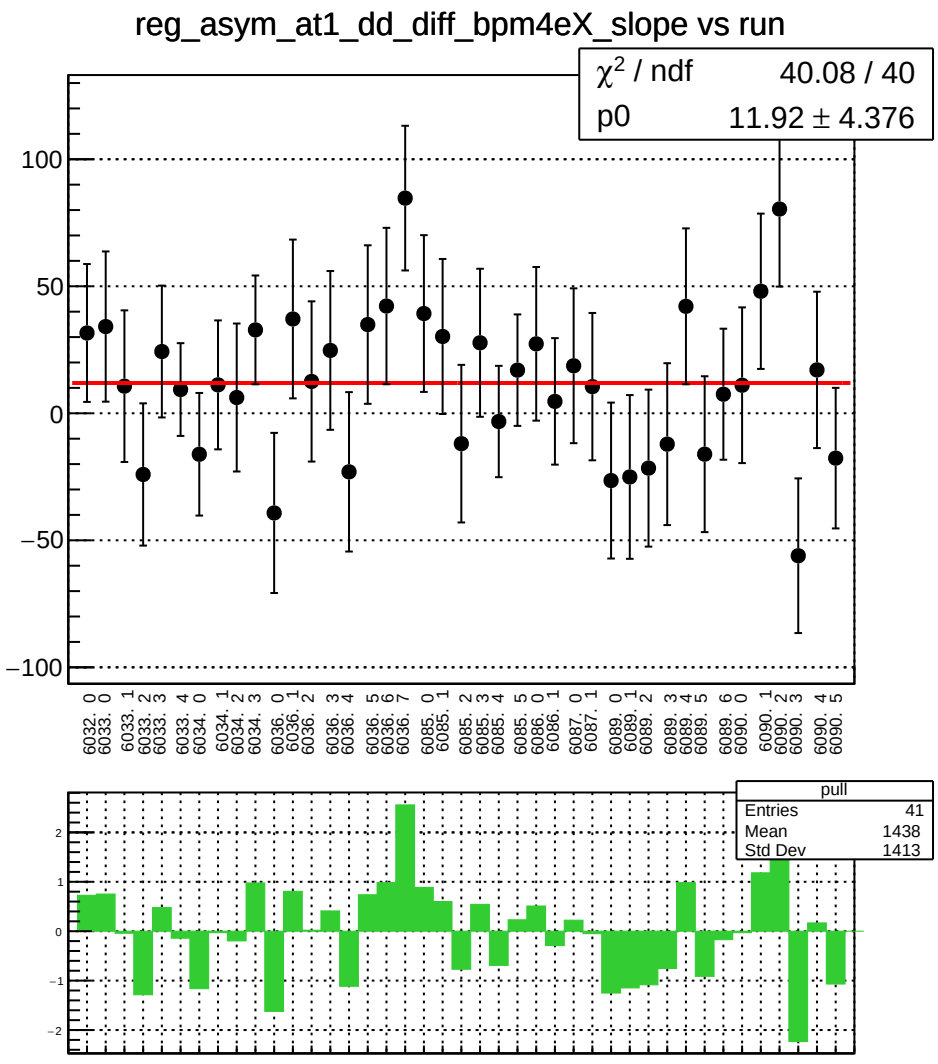

pull1D
Entries 41
Mean −0.04171
Std Dev 2.211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

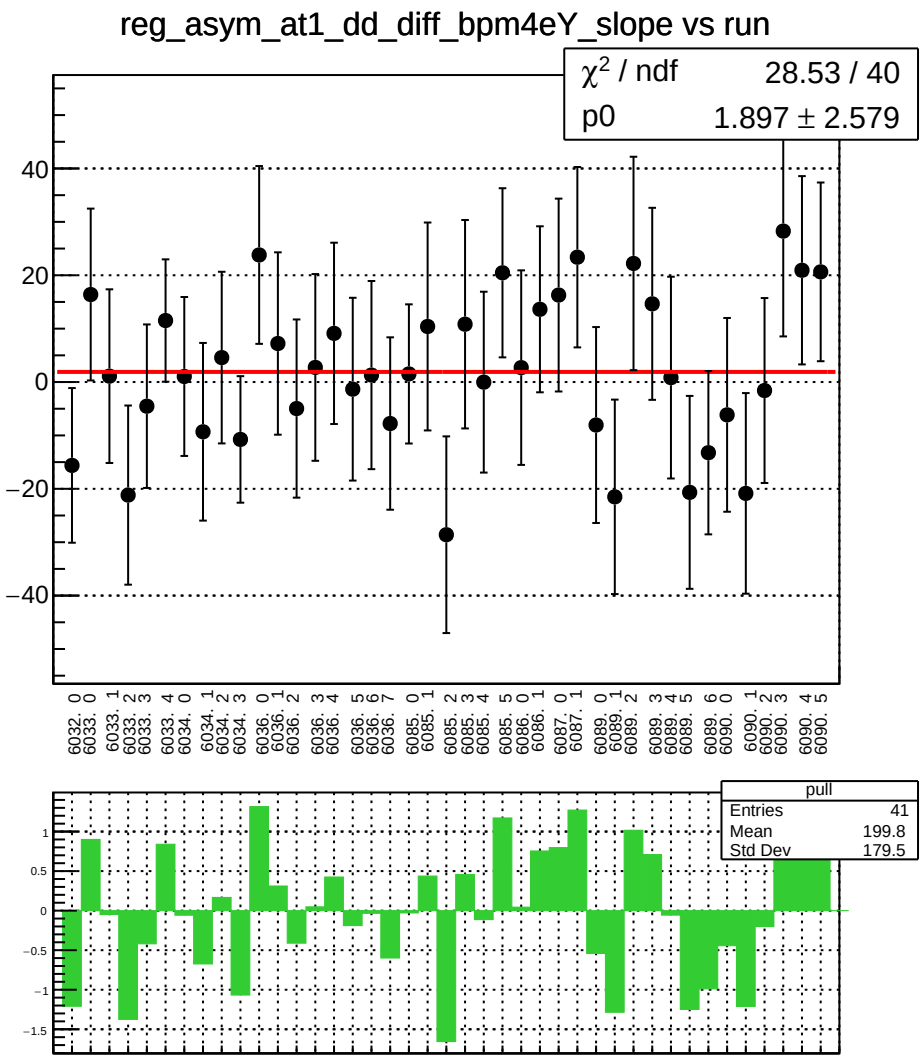

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.29 / 40
p0 32.21 ± 3.915
pull
Entries 41
Mean −208.3
Std Dev 235

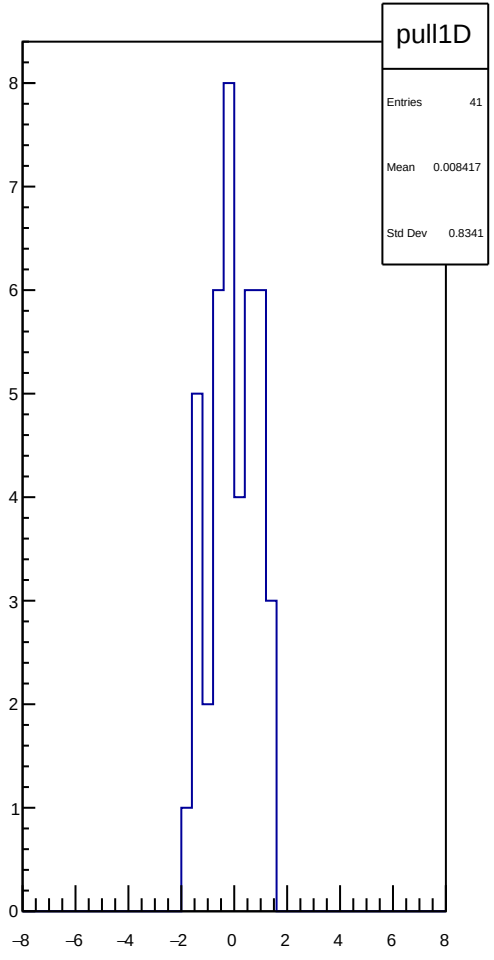

pull1D
Entries 41
Mean −0.004149
Std Dev 1.004

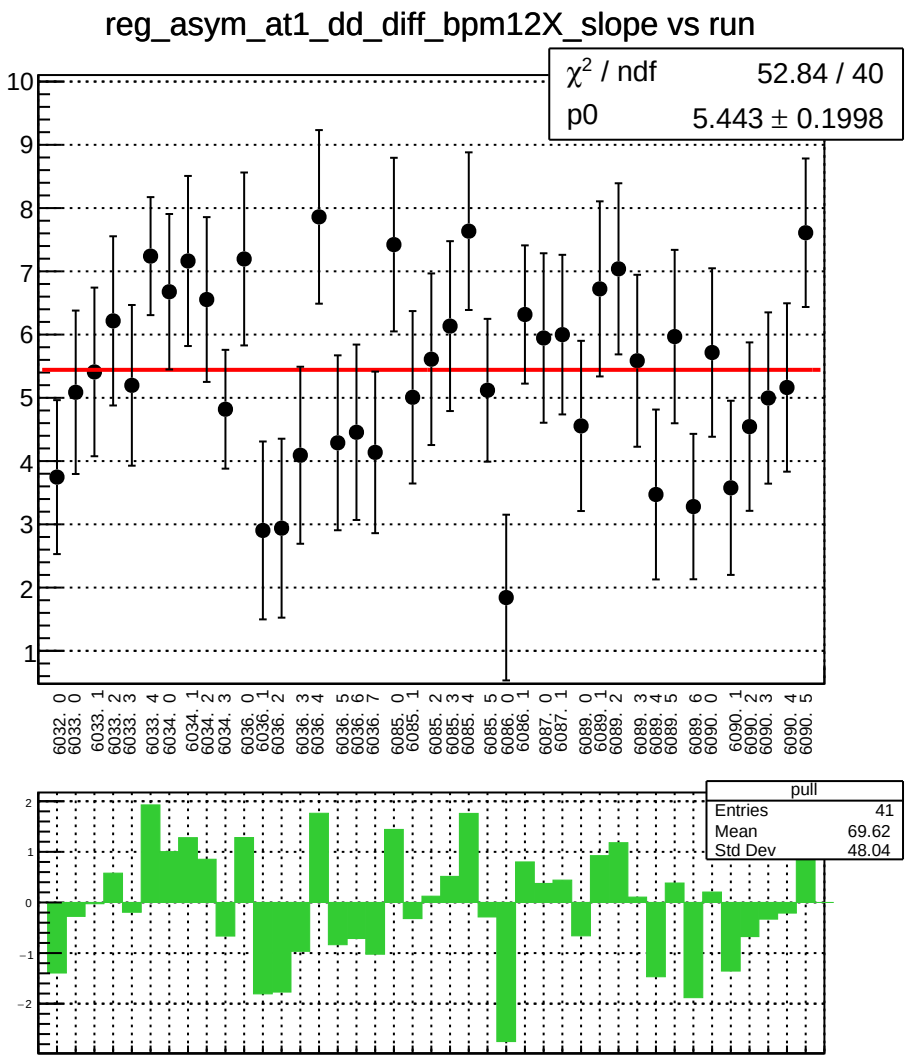

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.35 / 40
p0 −3.232 ± 2.398
pull
Entries 41
Mean 127.2
Std Dev 106.6

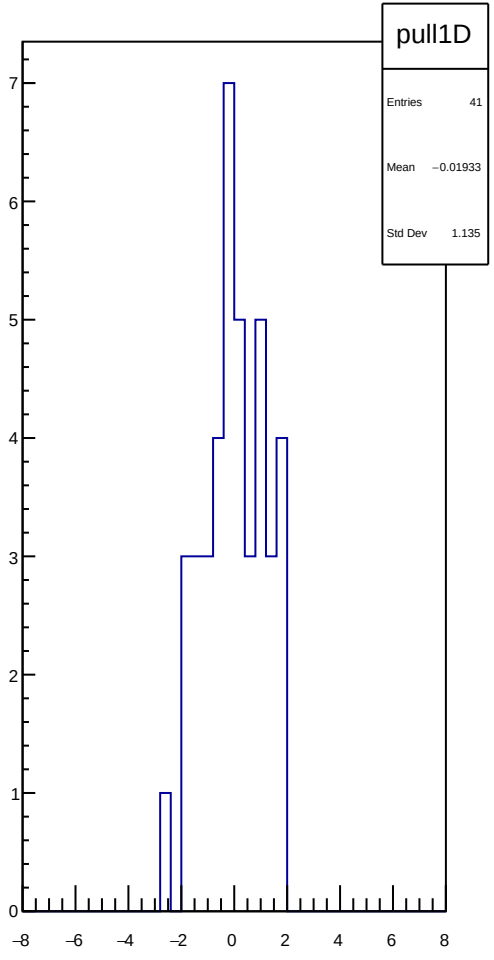

pull1D
Entries 41
Mean −0.01842
Std Dev 0.8314

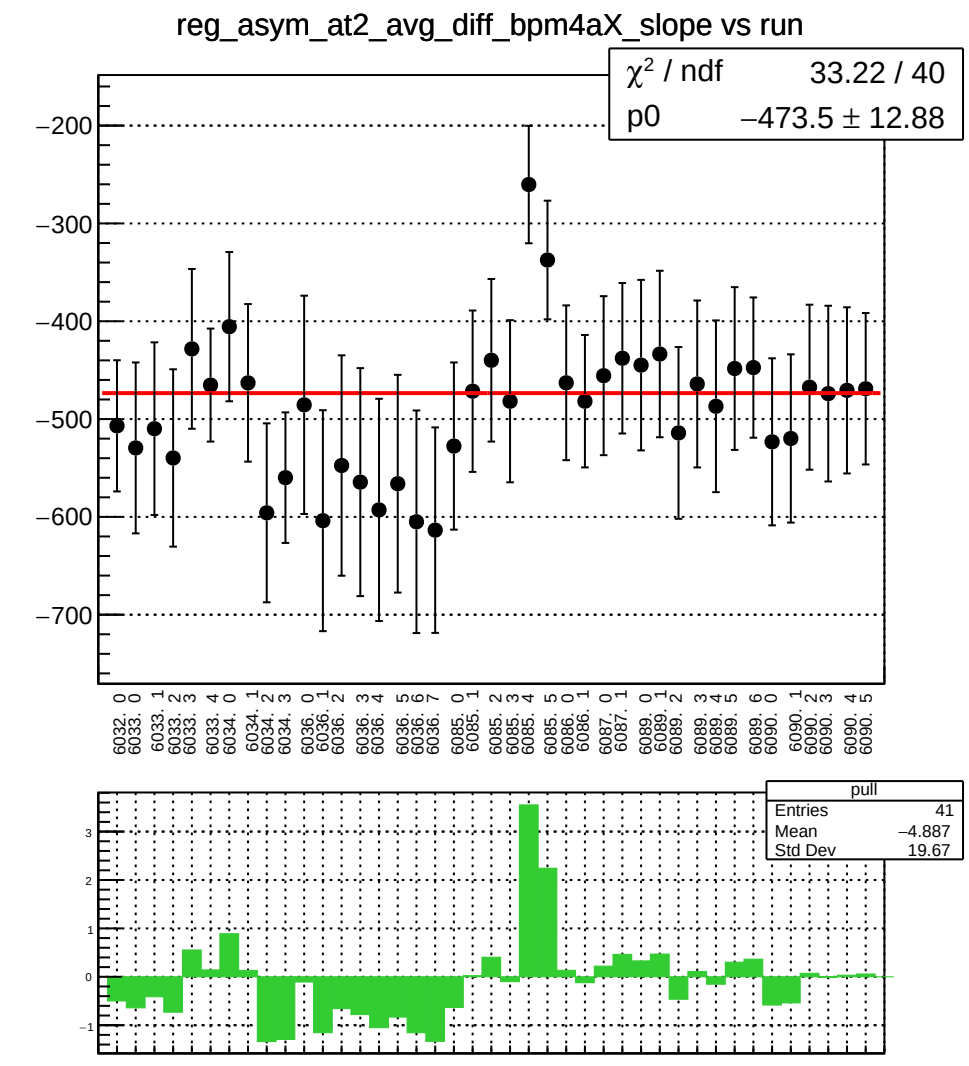

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.08 / 40
p0 11.92 ± 4.376
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 1438
Std Dev 1413
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.0008737
Std Dev 0.9888
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

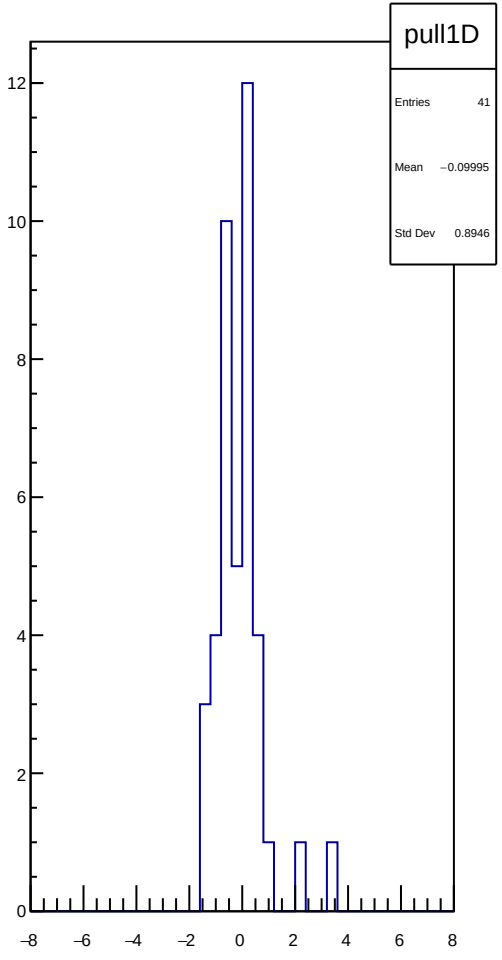

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.53 / 40
p0 1.897 ± 2.579
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 199.8
Std Dev 179.5
1
0.5
0
−0.5
−1
−1.5

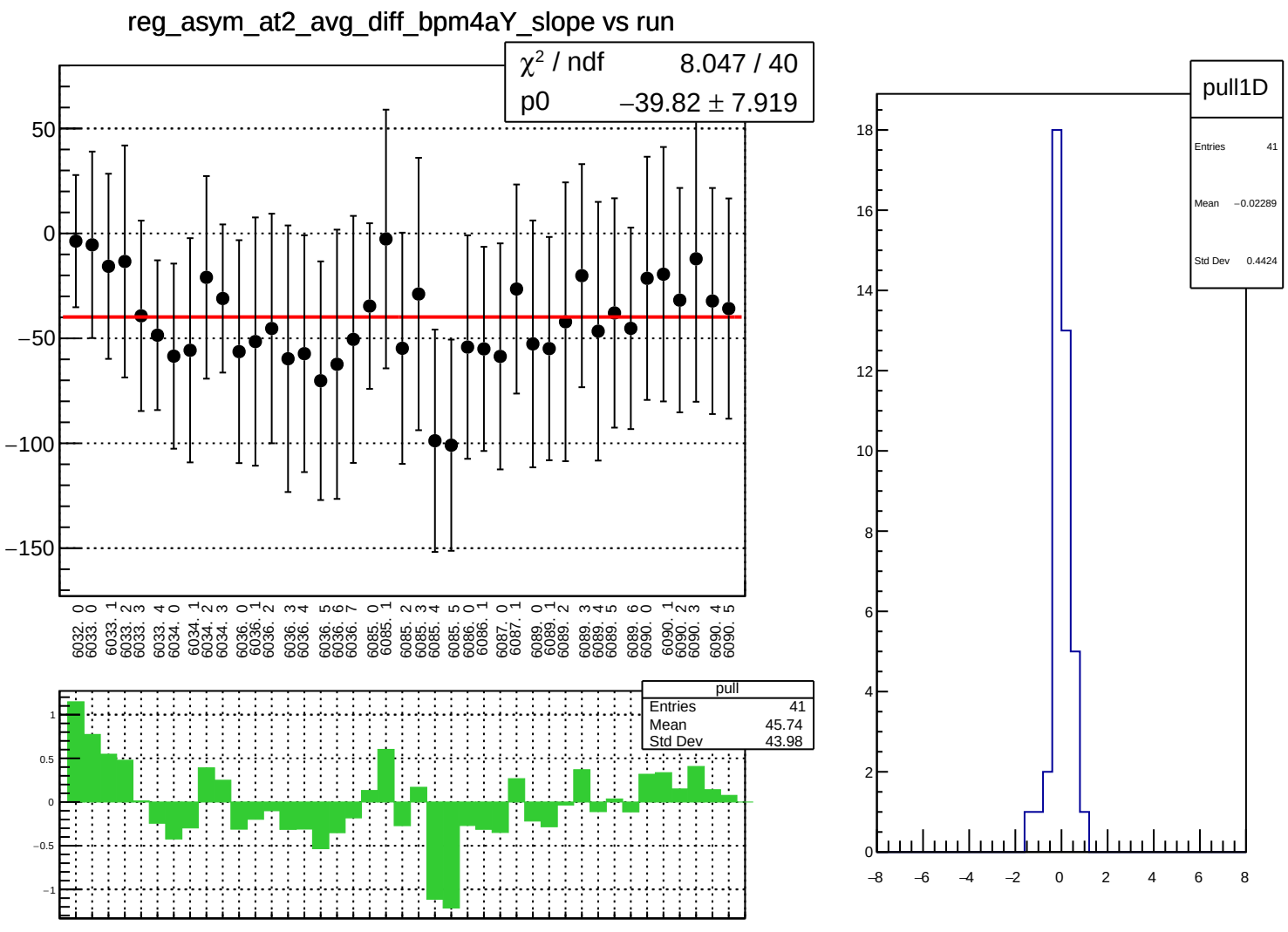

pull1D
Entries 41
Mean 0.008417
Std Dev 0.8341
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

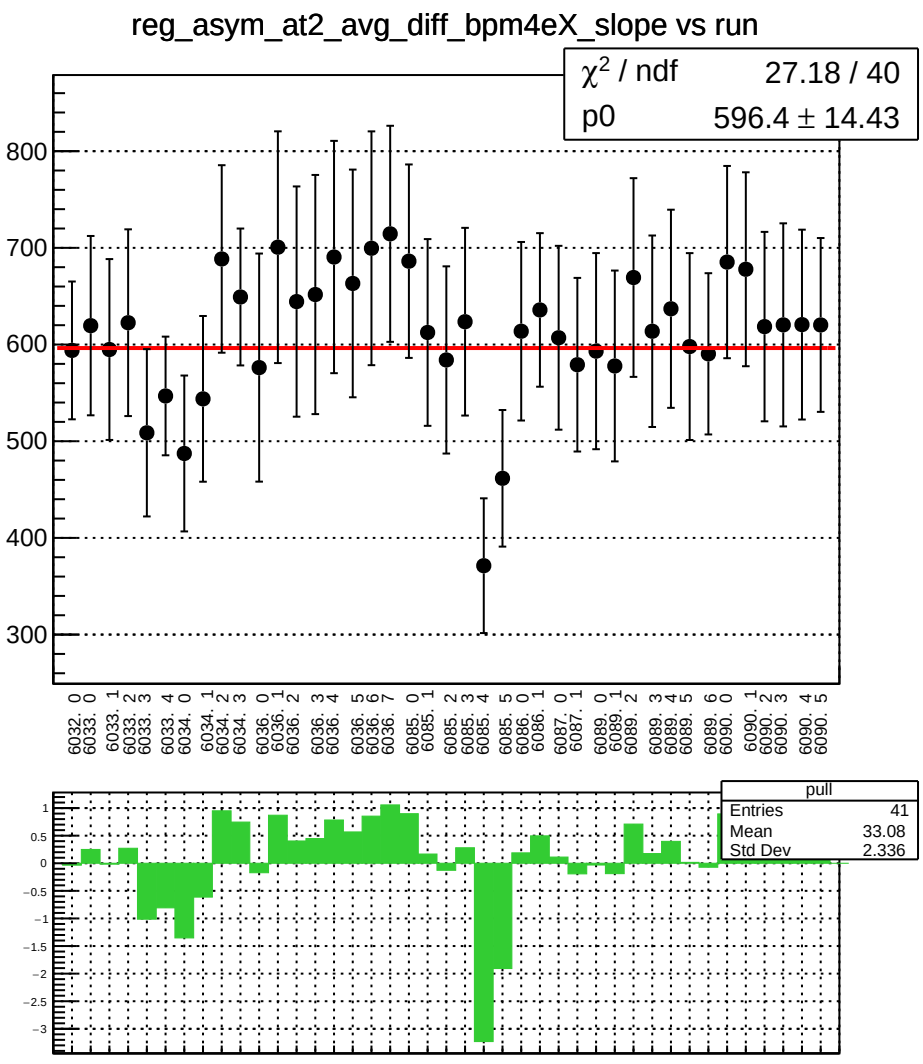

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 52.84 / 40
p0 5.443 ± 0.1998
pull
Entries 41
Mean 69.62
Std Dev 48.04

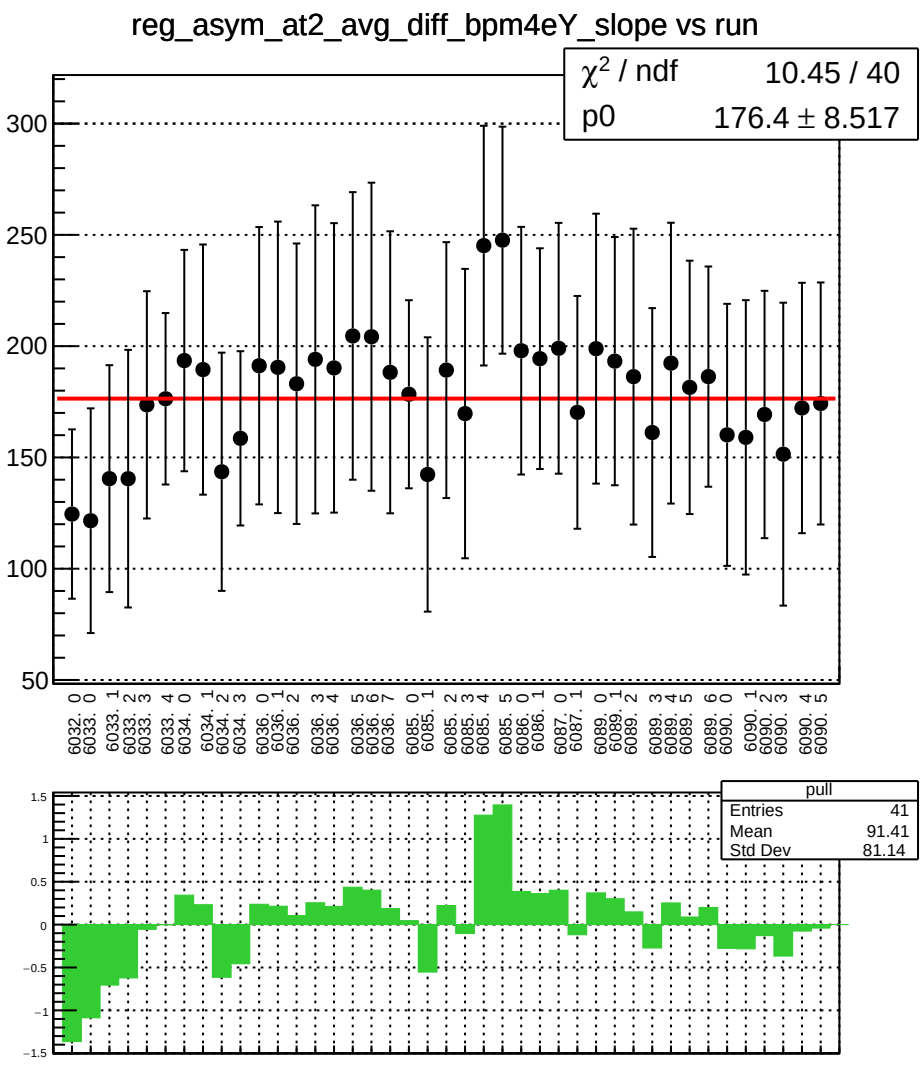

pull1D
Entries 41
Mean −0.01933
Std Dev 1.135

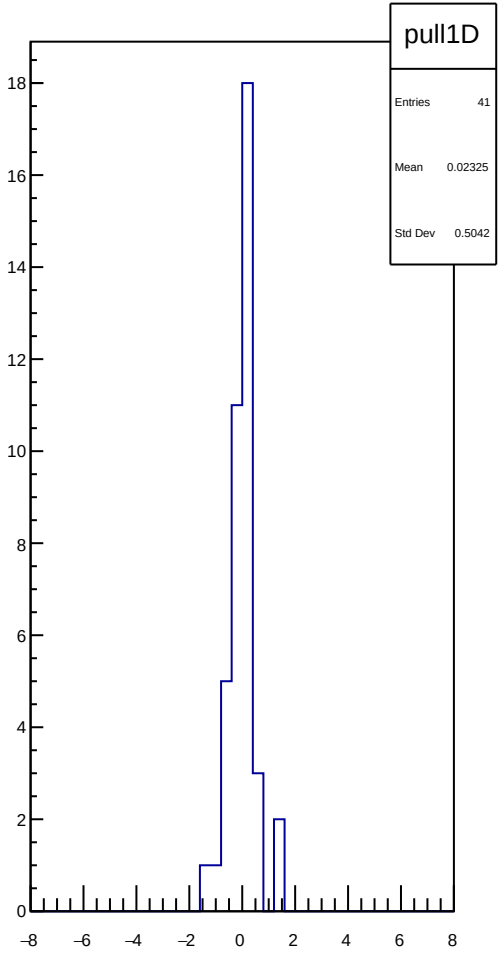

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 33.22 / 40
p0 −473.5 ± 12.88
−200
−300
−400
−500
−600
−700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −4.887
Std Dev 19.67
3
2
1
0
−1

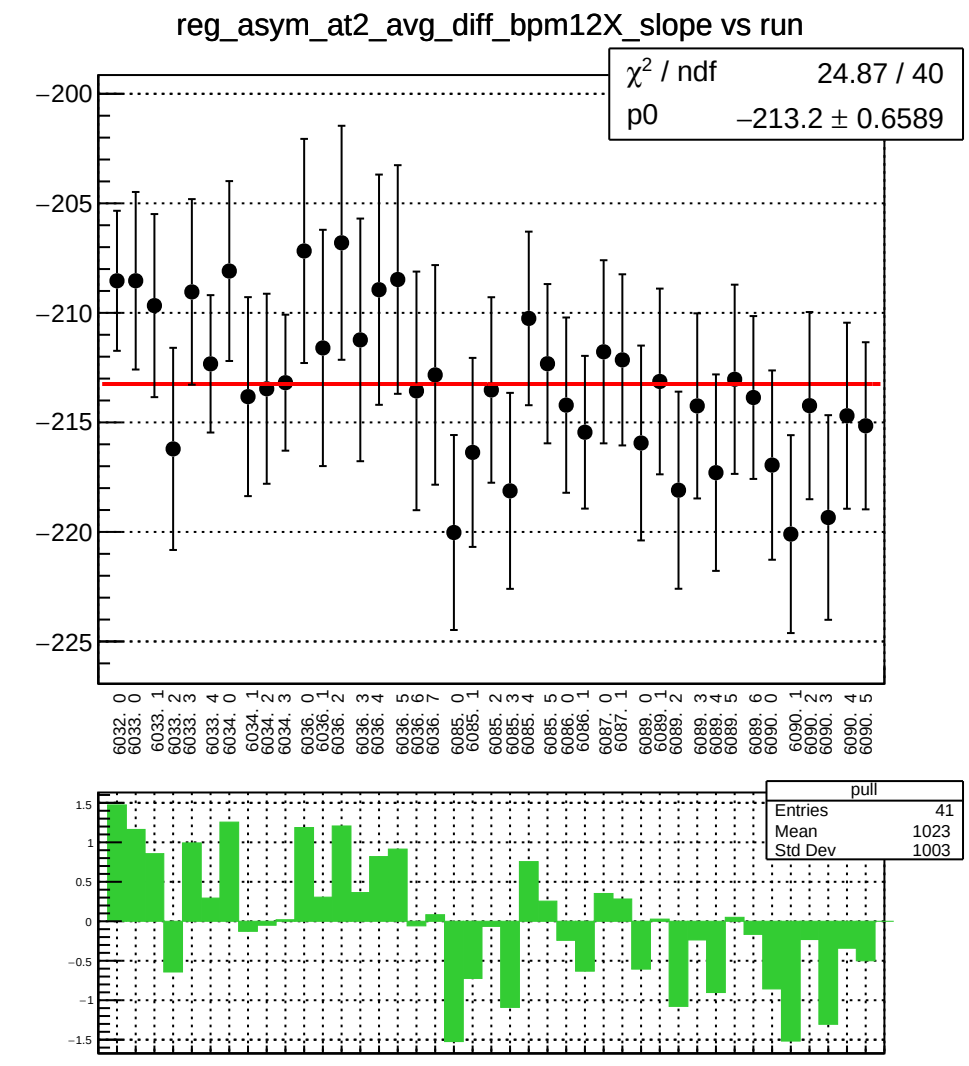

pull1D
Entries 41
Mean −0.09995
Std Dev 0.8946
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

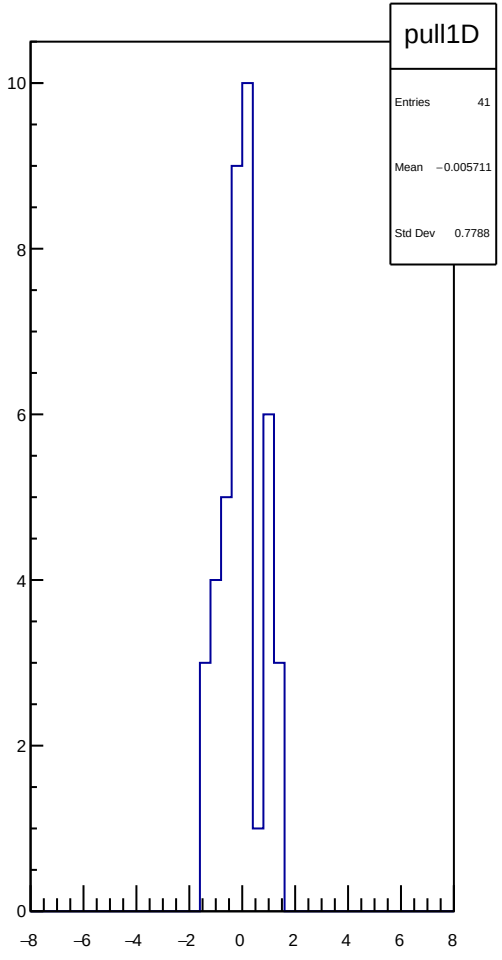

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.047 / 40
p0 −39.82 ± 7.919
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 45.74
Std Dev 43.98
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.02289
Std Dev 0.4424
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

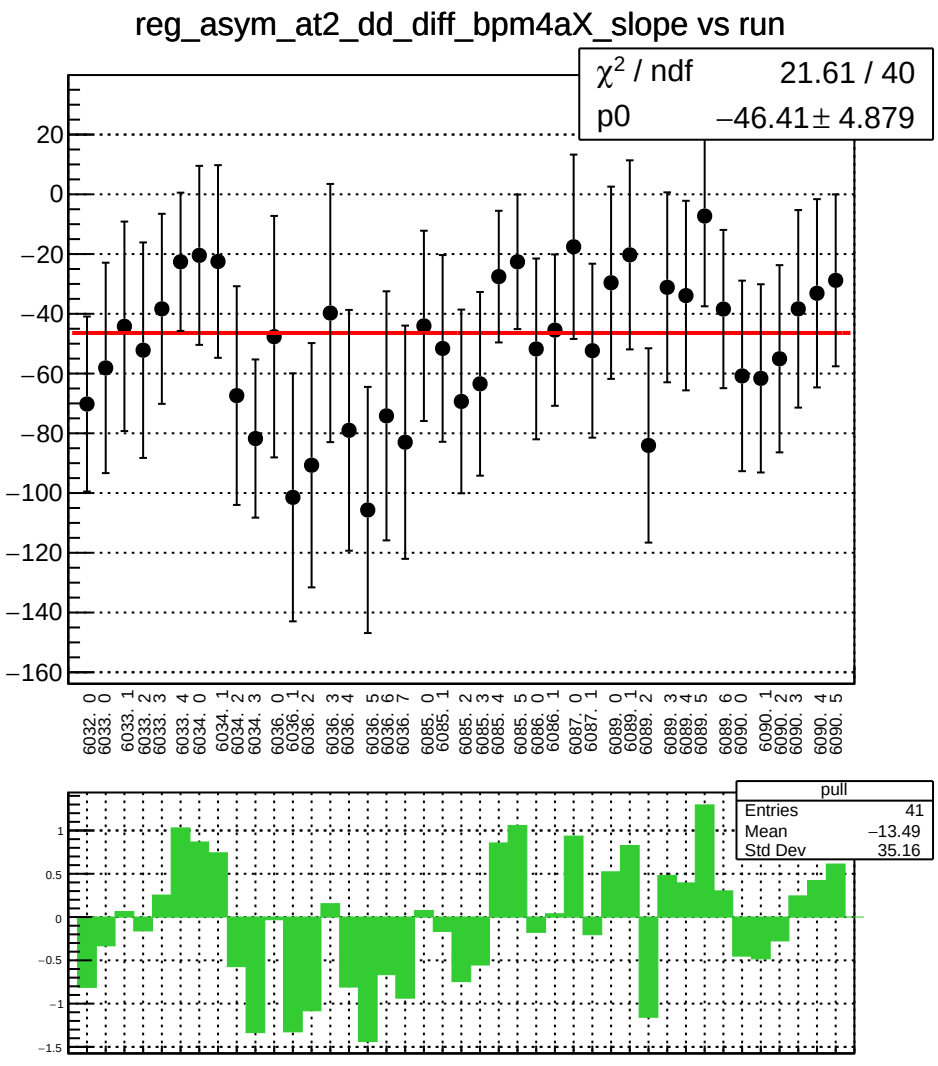

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.18 / 40
p0 596.4 ± 14.43
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 33.08
Std Dev 2.336
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 41
Mean 0.08678
Std Dev 0.8095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

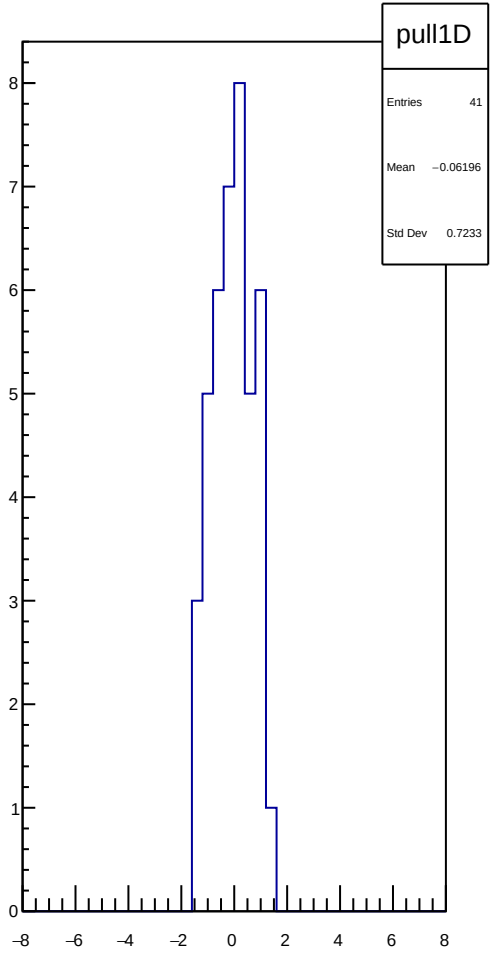

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.45 / 40
p0 176.4 ± 8.517
300
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 91.41
Std Dev 81.14
1.5
1
0.5
0
−0.5
−1
−1.5

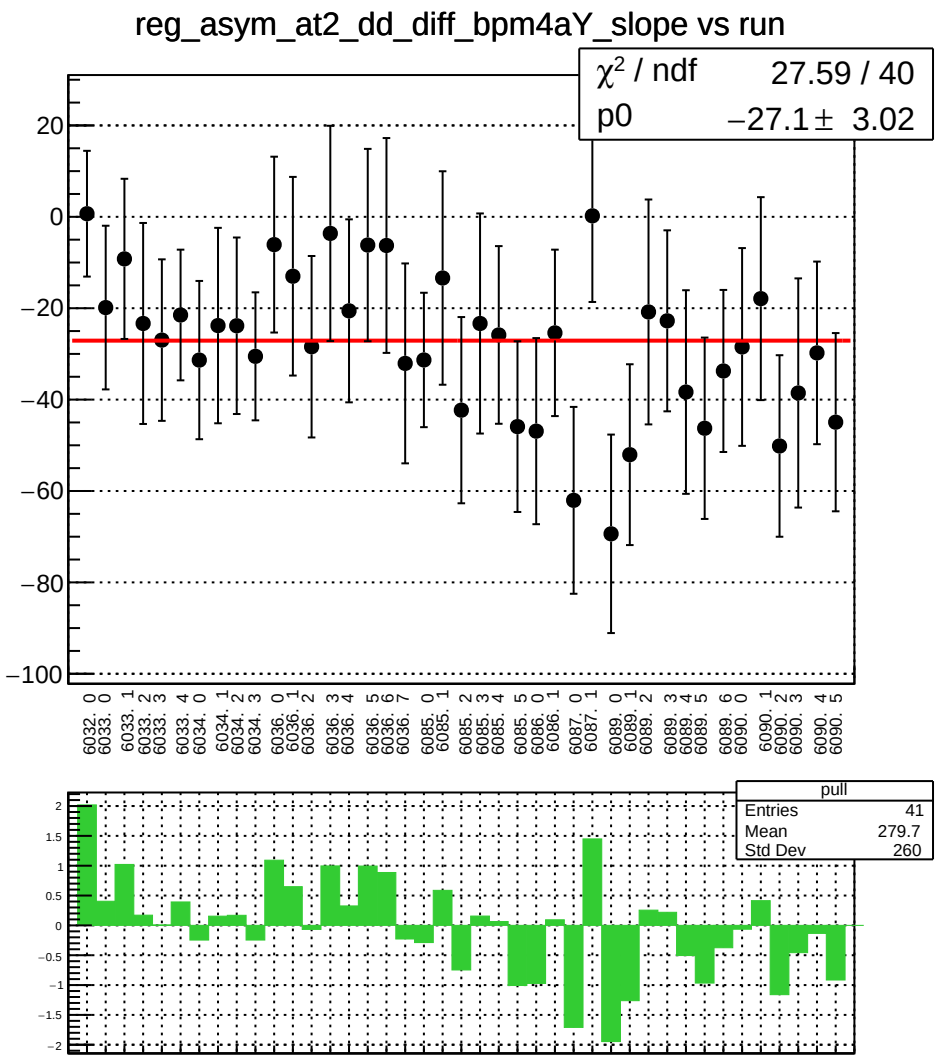

pull1D
Entries 41
Mean 0.02325
Std Dev 0.5042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

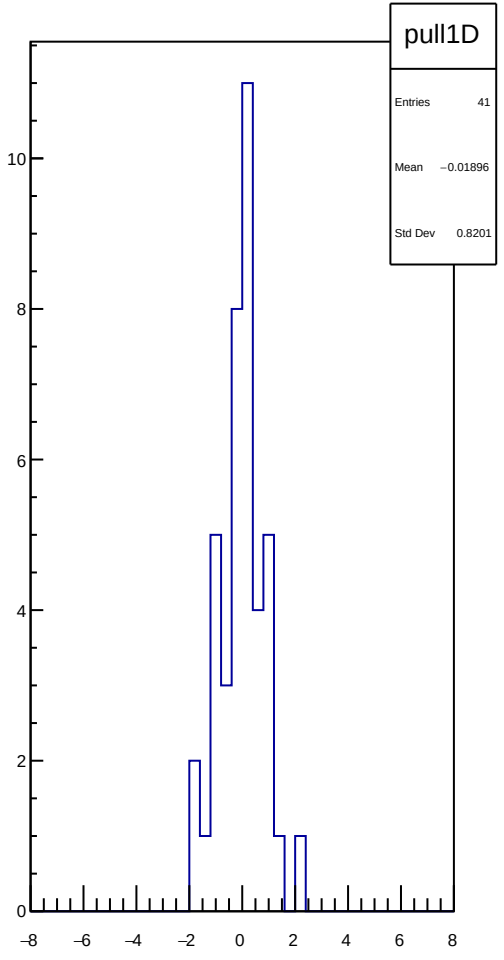

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 24.87 / 40
p0 −213.2 ± 0.6589
−200
−205
−210
−215
−220
−225
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 1023
Std Dev 1003
1.5
1
0.5
0
−0.5
−1
−1.5

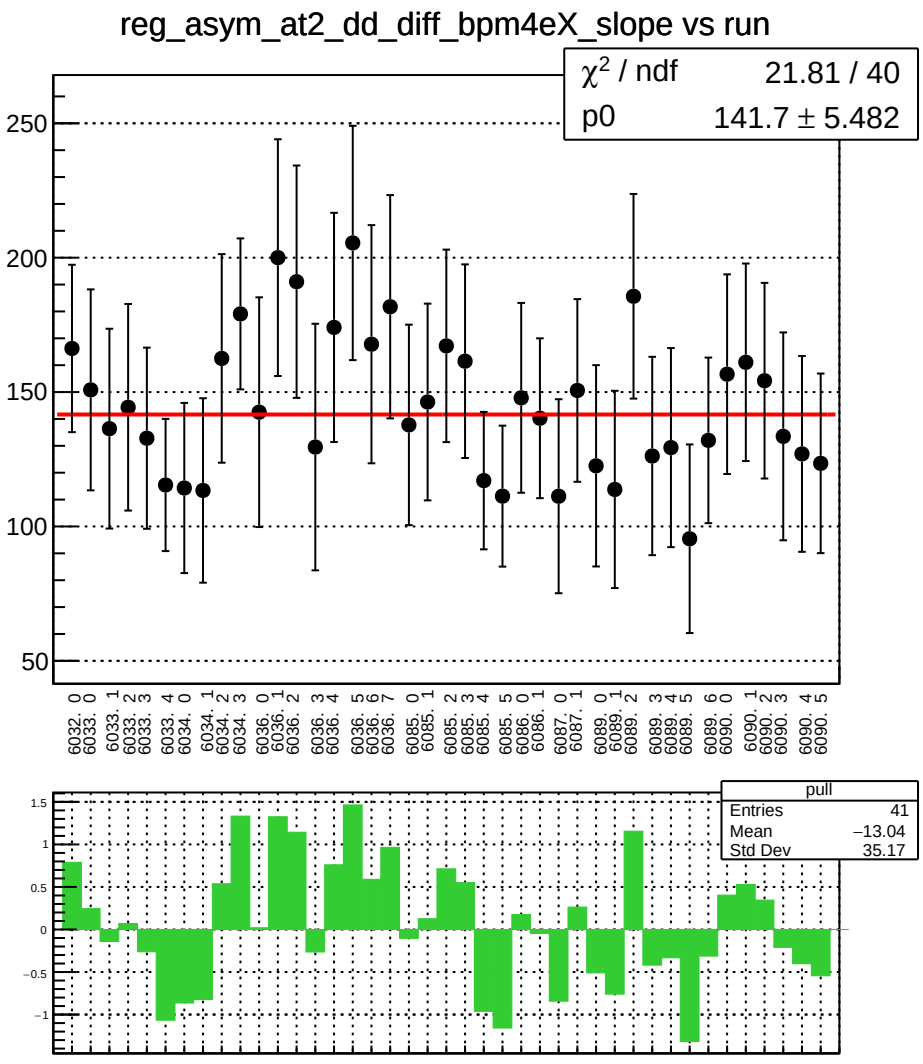

pull1D
Entries 41
Mean −0.005711
Std Dev 0.7788
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

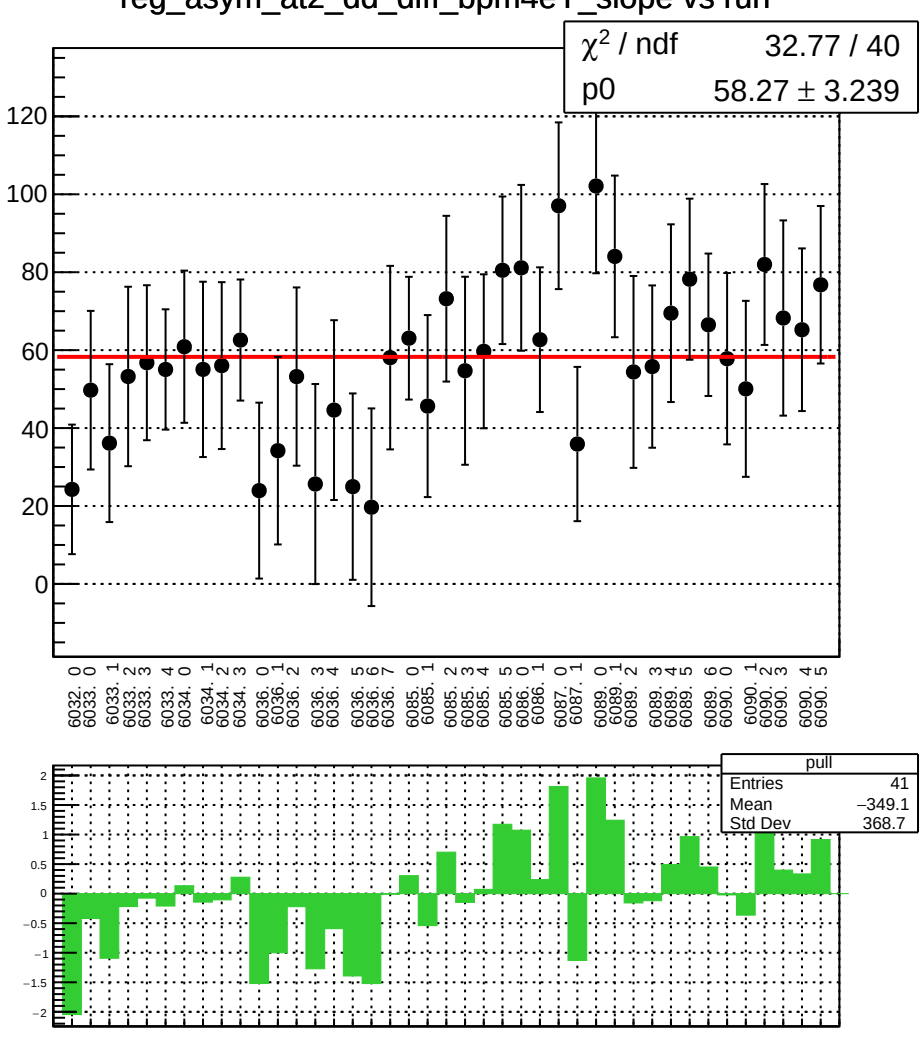

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.61 / 40
p0 −46.41 ± 4.879
pull
Entries 41
Mean −13.49
Std Dev 35.16

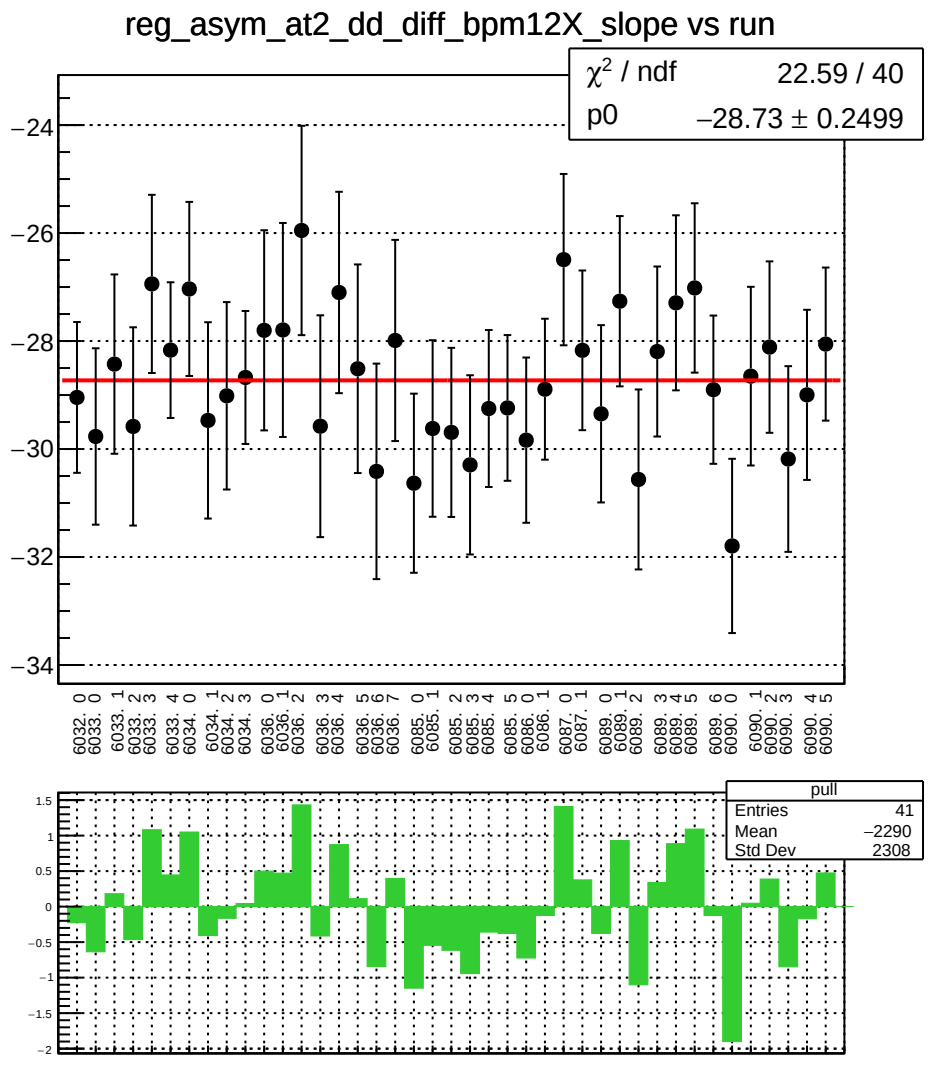

pull1D
Entries 41
Mean −0.06196
Std Dev 0.7233

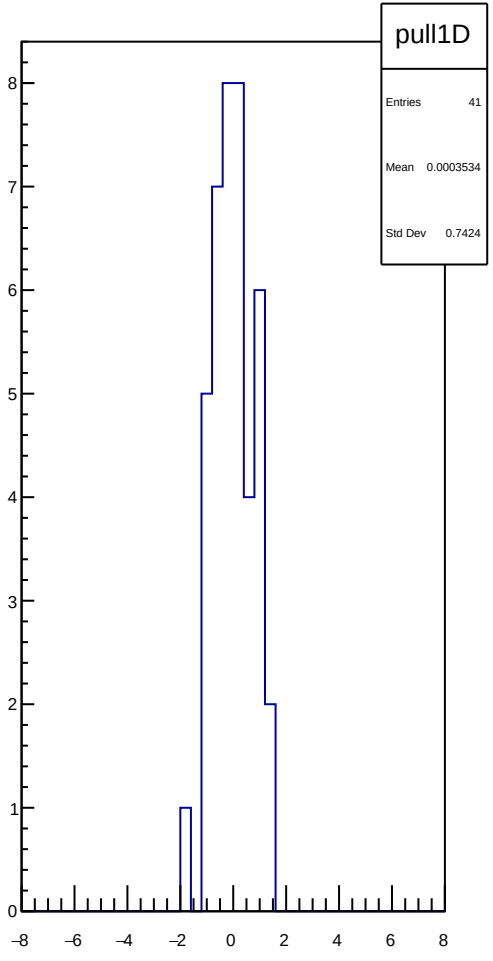

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.59 / 40
p0 −27.1 ± 3.02
pull
Entries 41
Mean 279.7
Std Dev 260

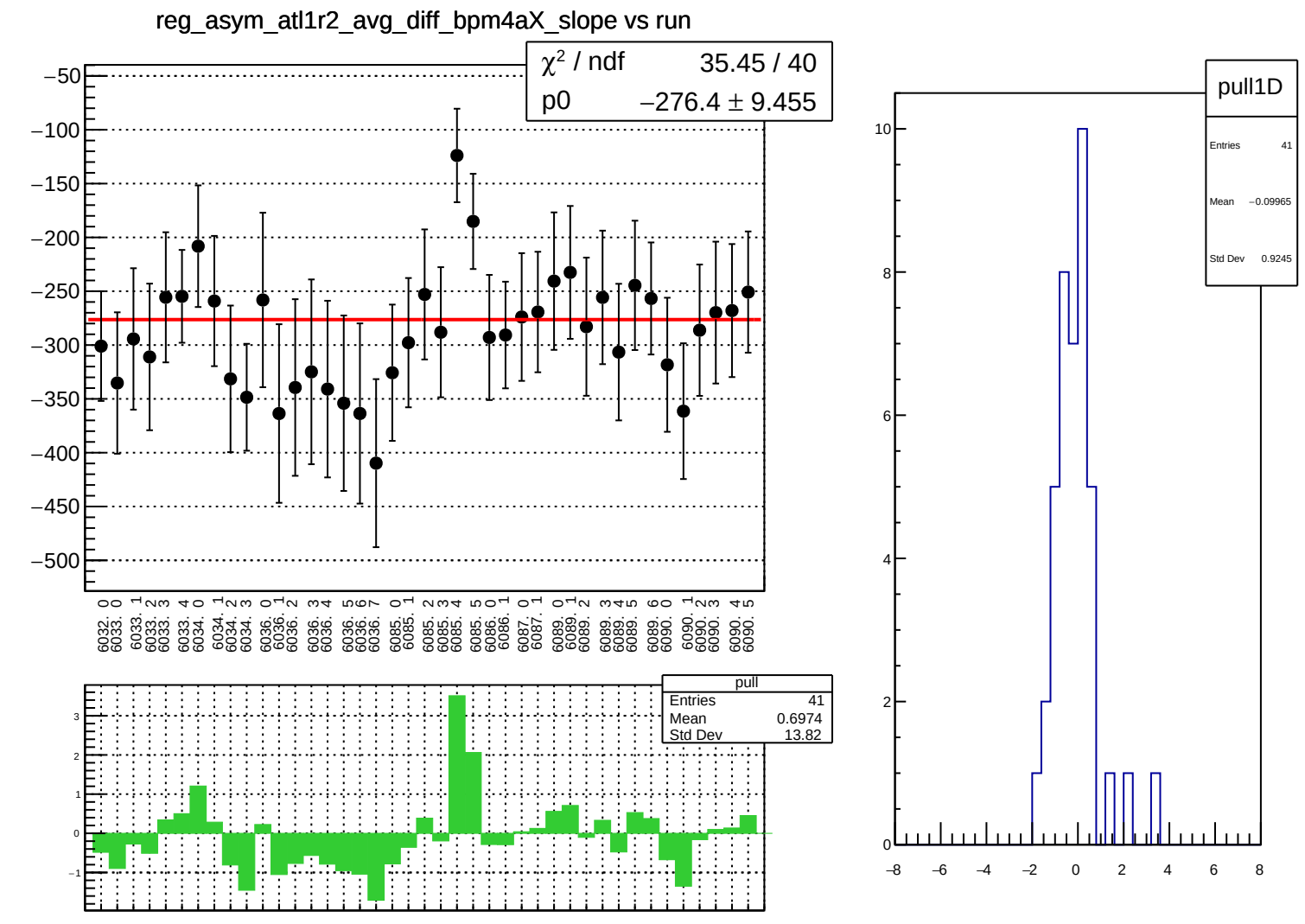

pull1D
Entries 41
Mean −0.01896
Std Dev 0.8201

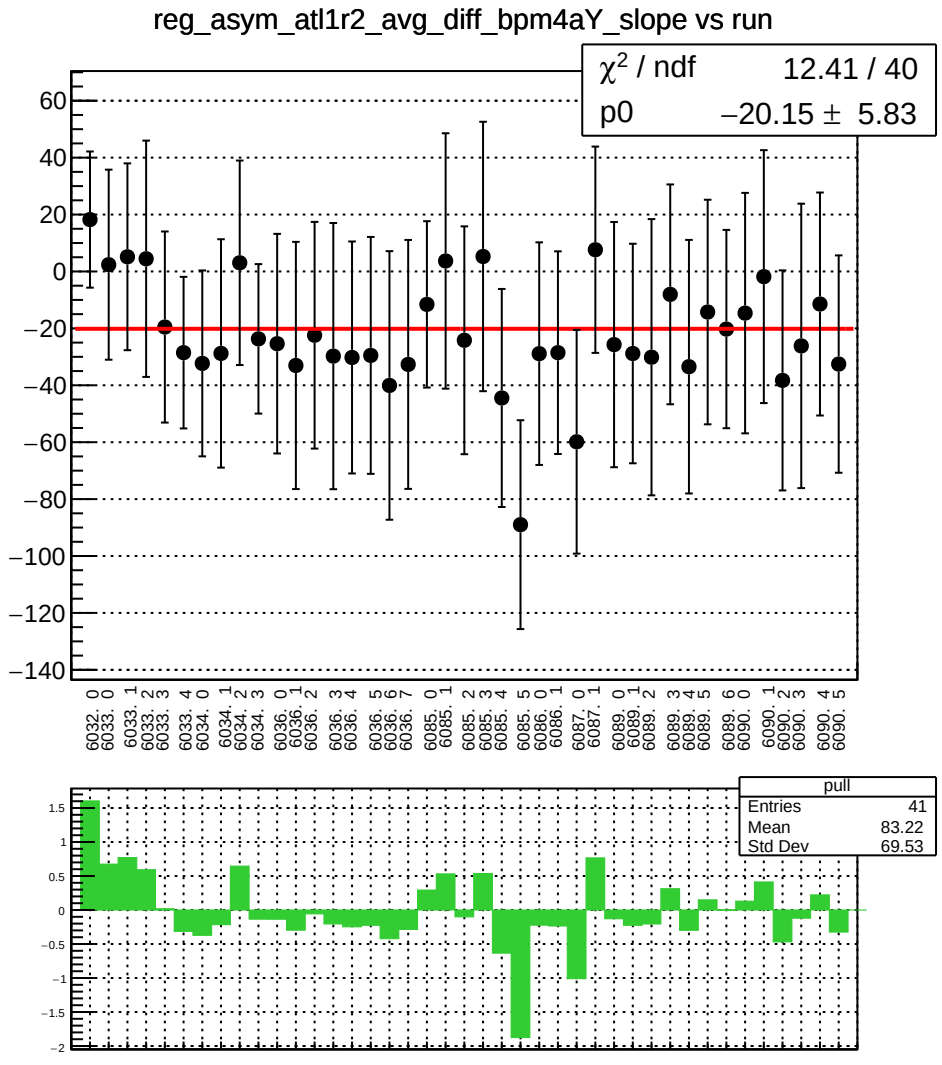

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.81 / 40
p0 141.7 ± 5.482
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −13.04
Std Dev 35.17
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.05283
Std Dev 0.7274
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

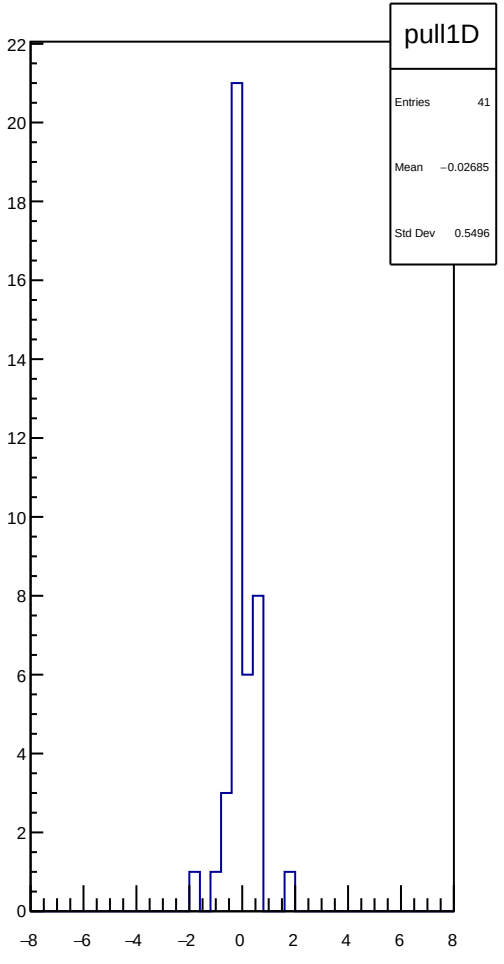

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.77 / 40
p0 58.27 ± 3.239
120
100
80
60
40
20
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −349.1
Std Dev 368.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01532
Std Dev 0.8939
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

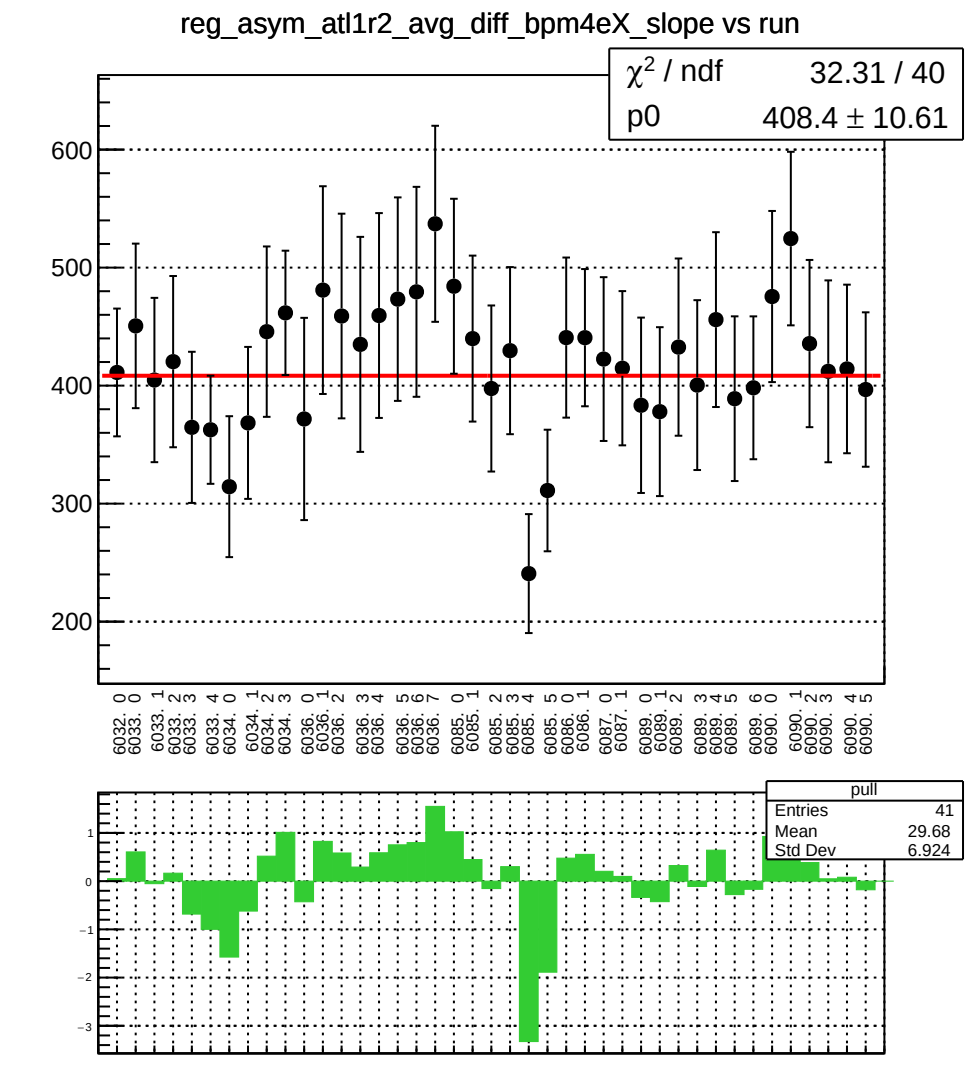

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.59 / 40
p0 −28.73 ± 0.2499
pull
Entries 41
Mean −2290
Std Dev 2308

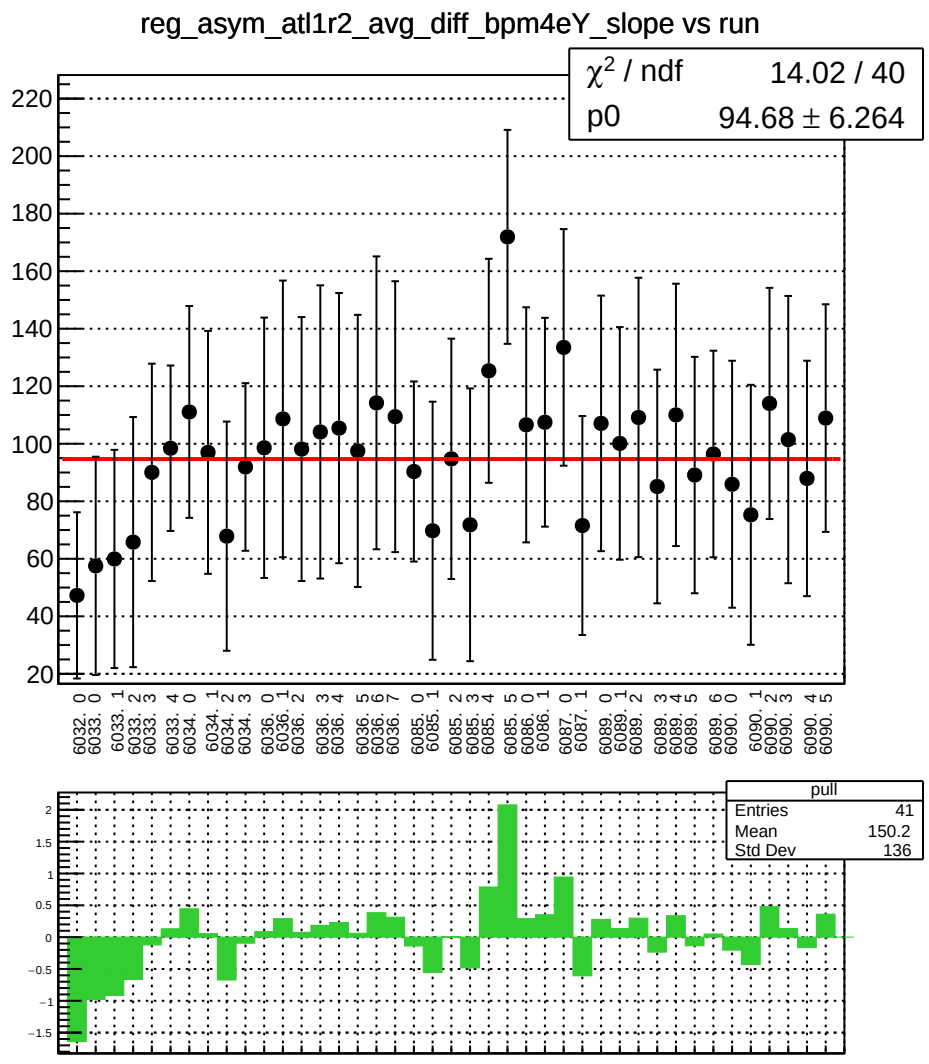

pull1D
Entries 41
Mean 0.0003534
Std Dev 0.7424

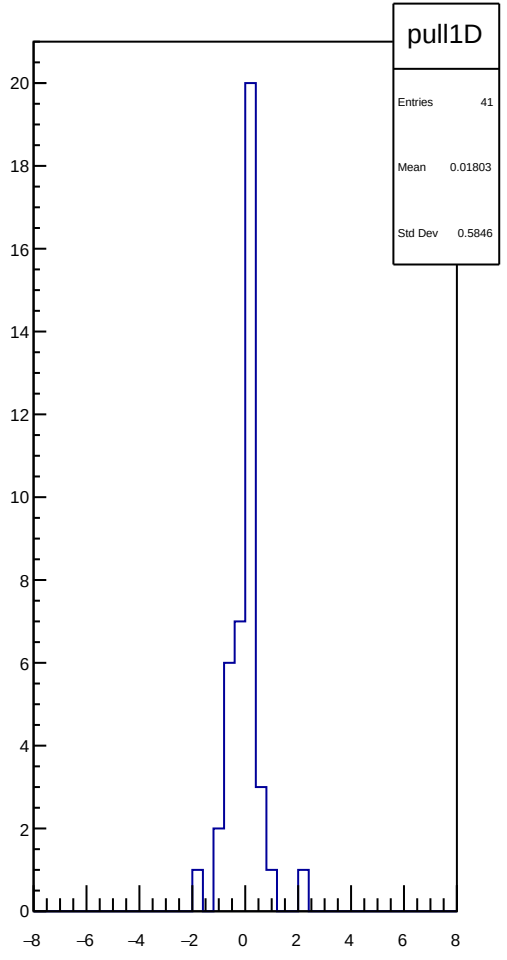

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.45 / 40
p0 −276.4 ± 9.455
pull
Entries 41
Mean 0.6974
Std Dev 13.82
pull1D
Entries 41
Mean −0.09965
Std Dev 0.9245

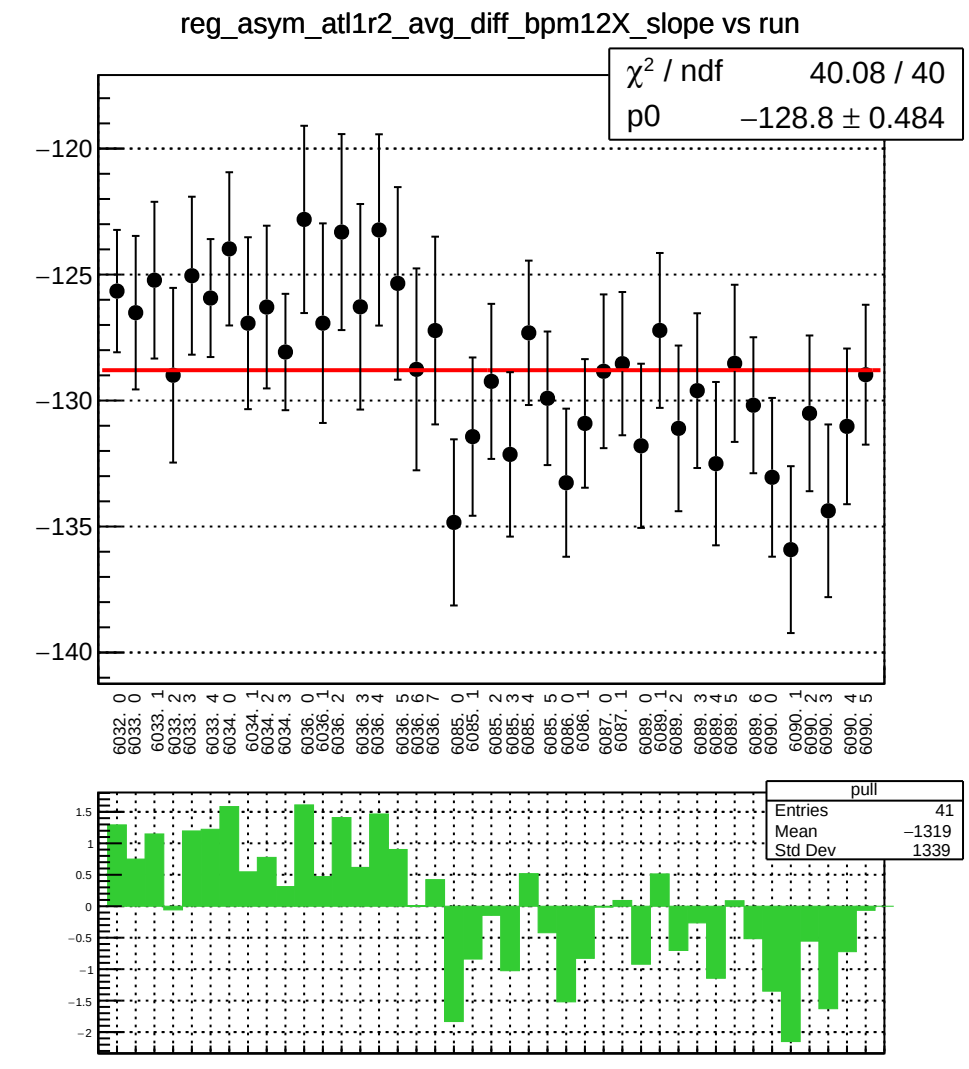

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.41 / 40
p0 −20.15 ± 5.83
pull
Entries 41
Mean 83.22
Std Dev 69.53

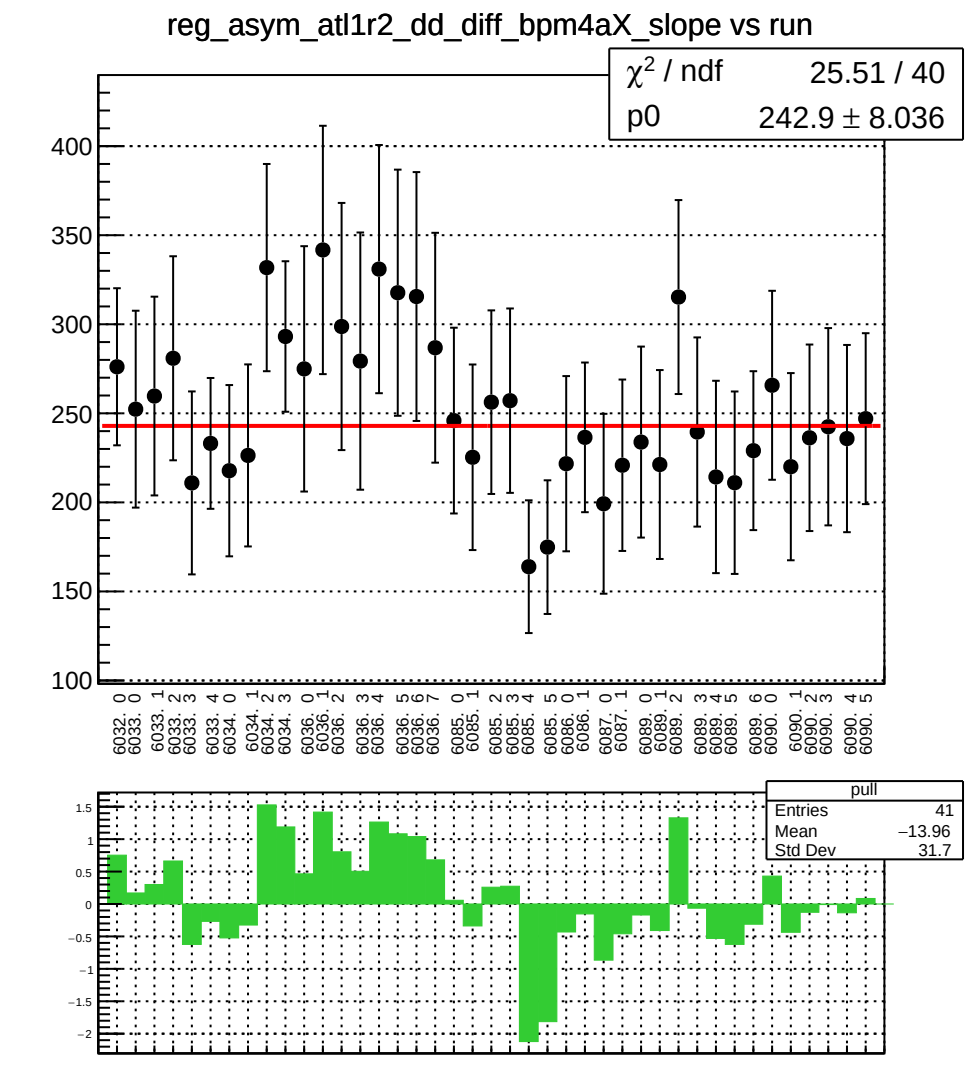

pull1D
Entries 41
Mean −0.02685
Std Dev 0.5496

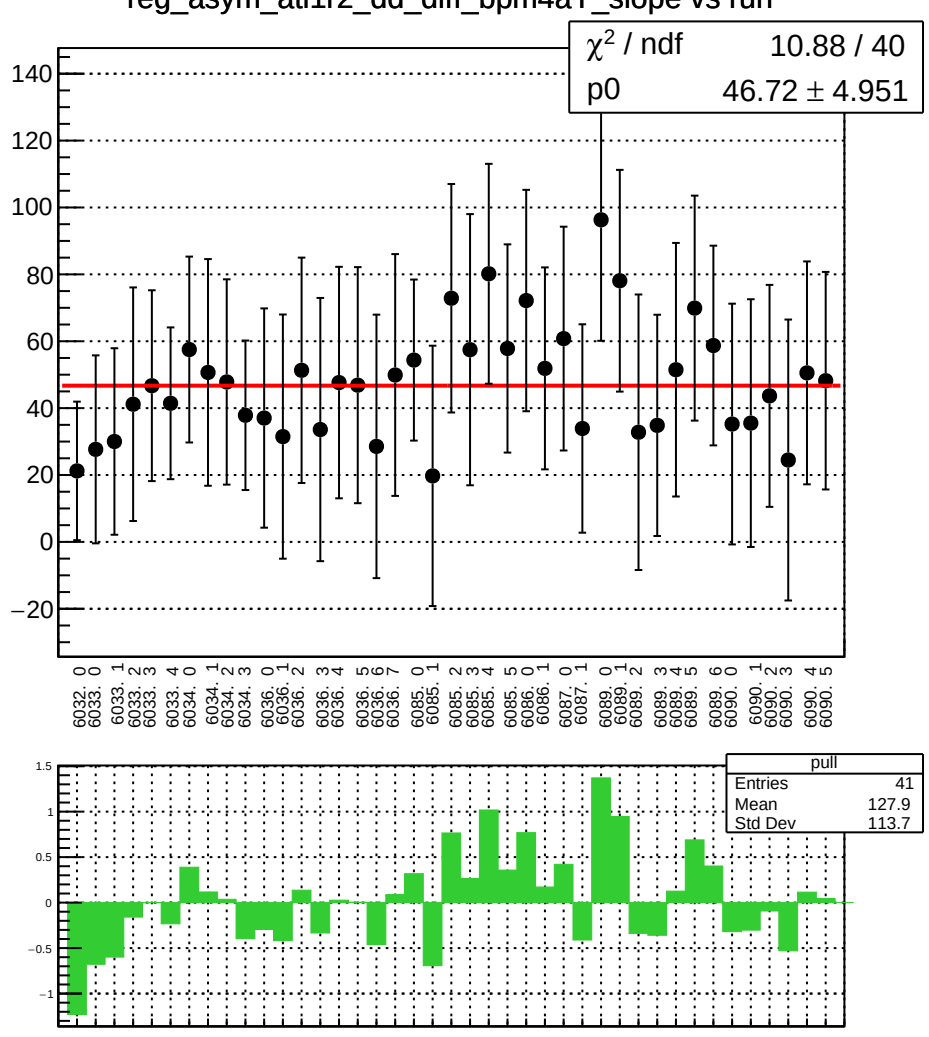

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.31 / 40
p0 408.4 ± 10.61
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 29.68
Std Dev 6.924
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.088
Std Dev 0.8834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

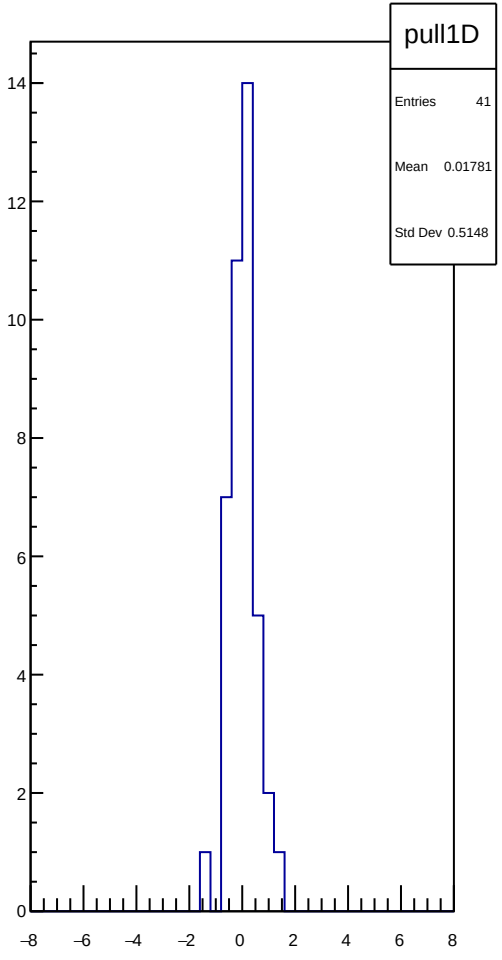

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.02 / 40
p0 94.68 ± 6.264
pull
Entries 41
Mean 150.2
Std Dev 136

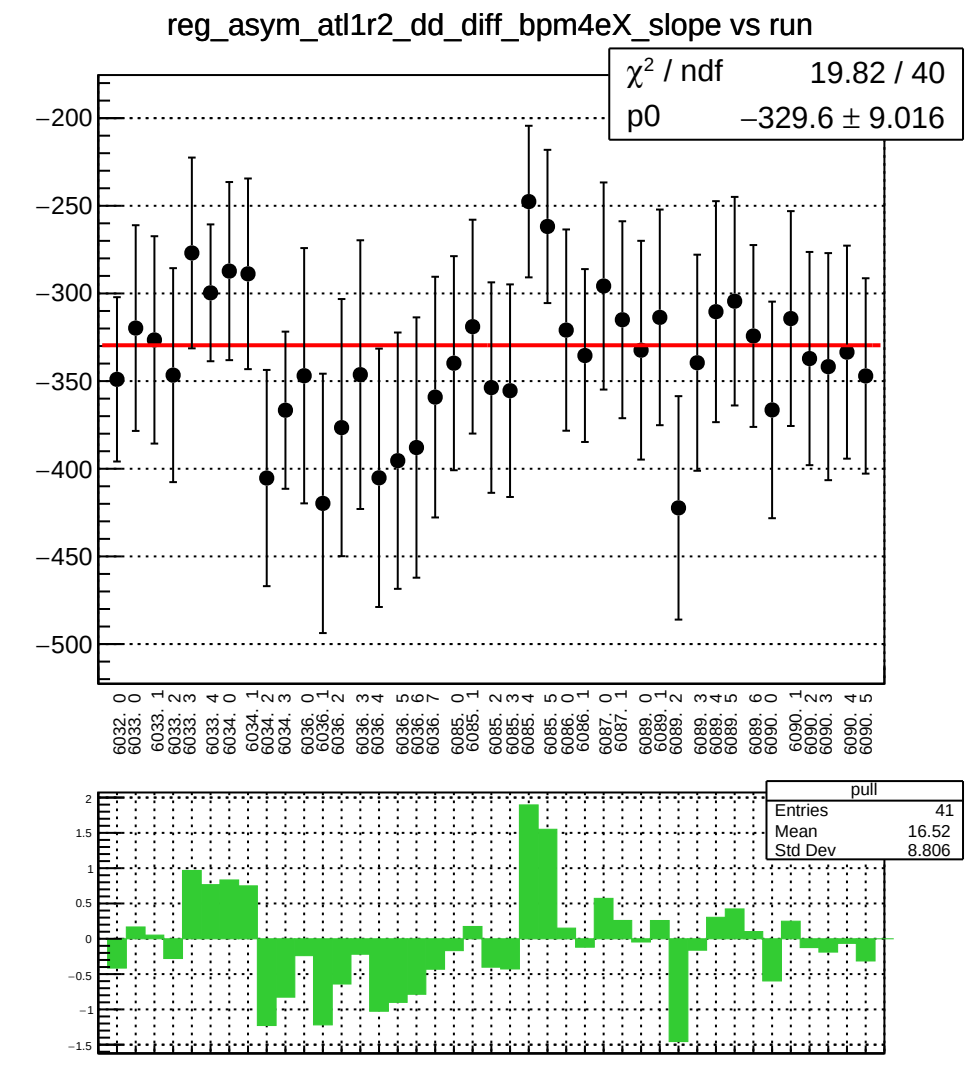

pull1D
Entries 41
Mean 0.01803
Std Dev 0.5846

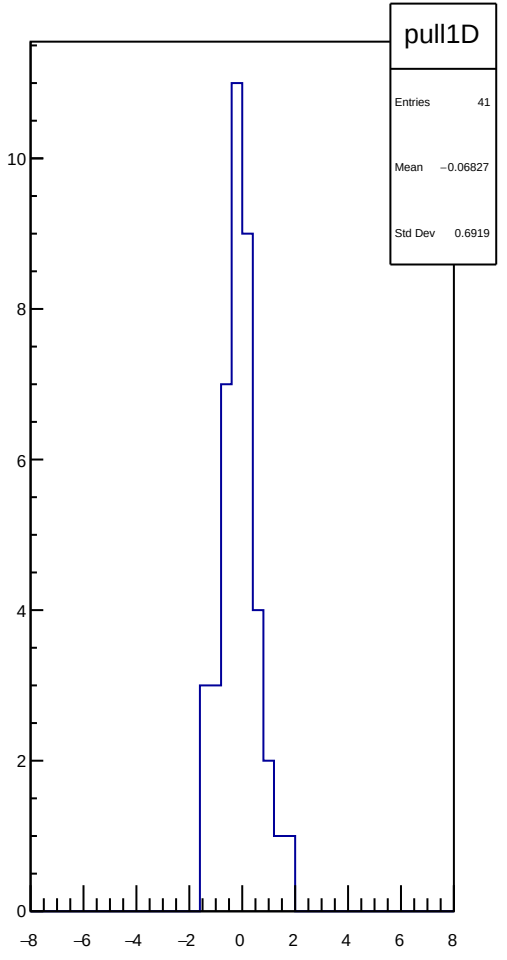

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 40.08 / 40
p0 −128.8 ± 0.484
−120
−125
−130
−135
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −1319
Std Dev 1339
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.006137
Std Dev 0.9887
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

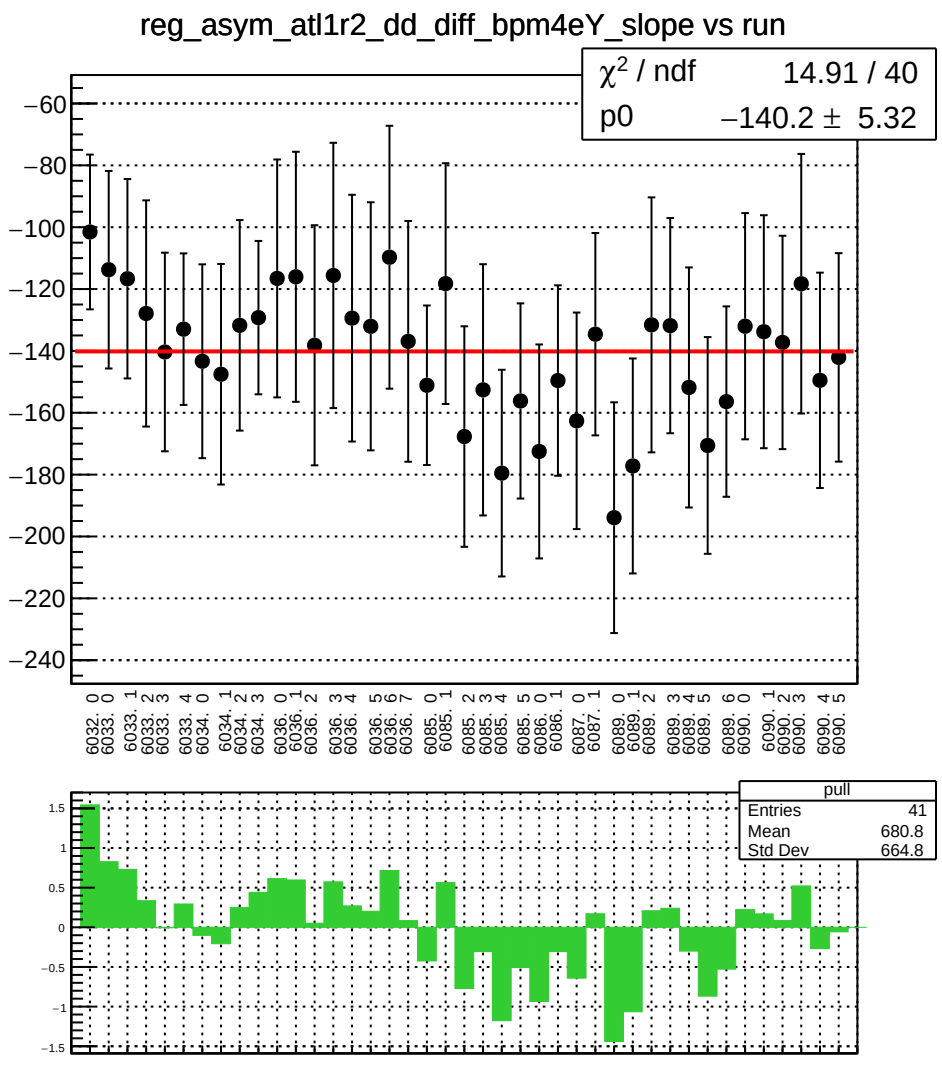

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.51 / 40
p0 242.9 ± 8.036
400
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −13.96
Std Dev 31.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.08668
Std Dev 0.7841
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

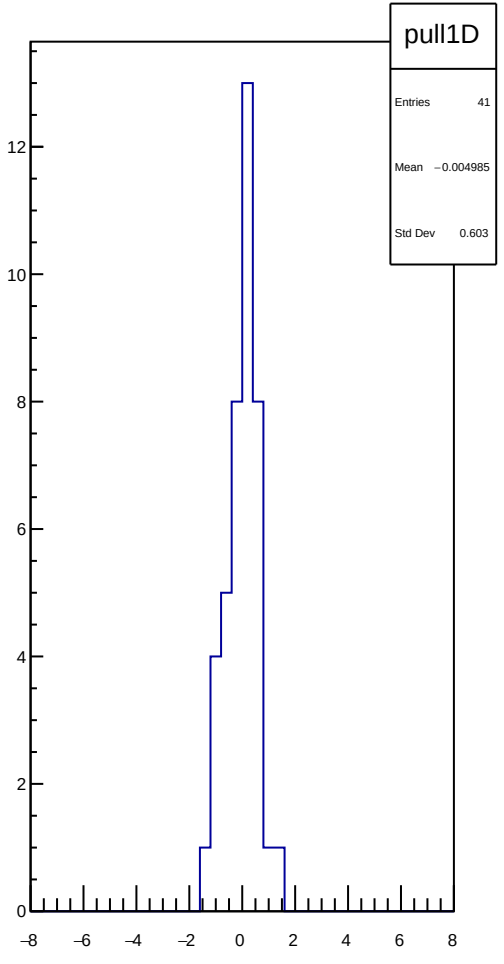

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.88 / 40
p0 46.72 ± 4.951
pull
Entries 41
Mean 127.9
Std Dev 113.7

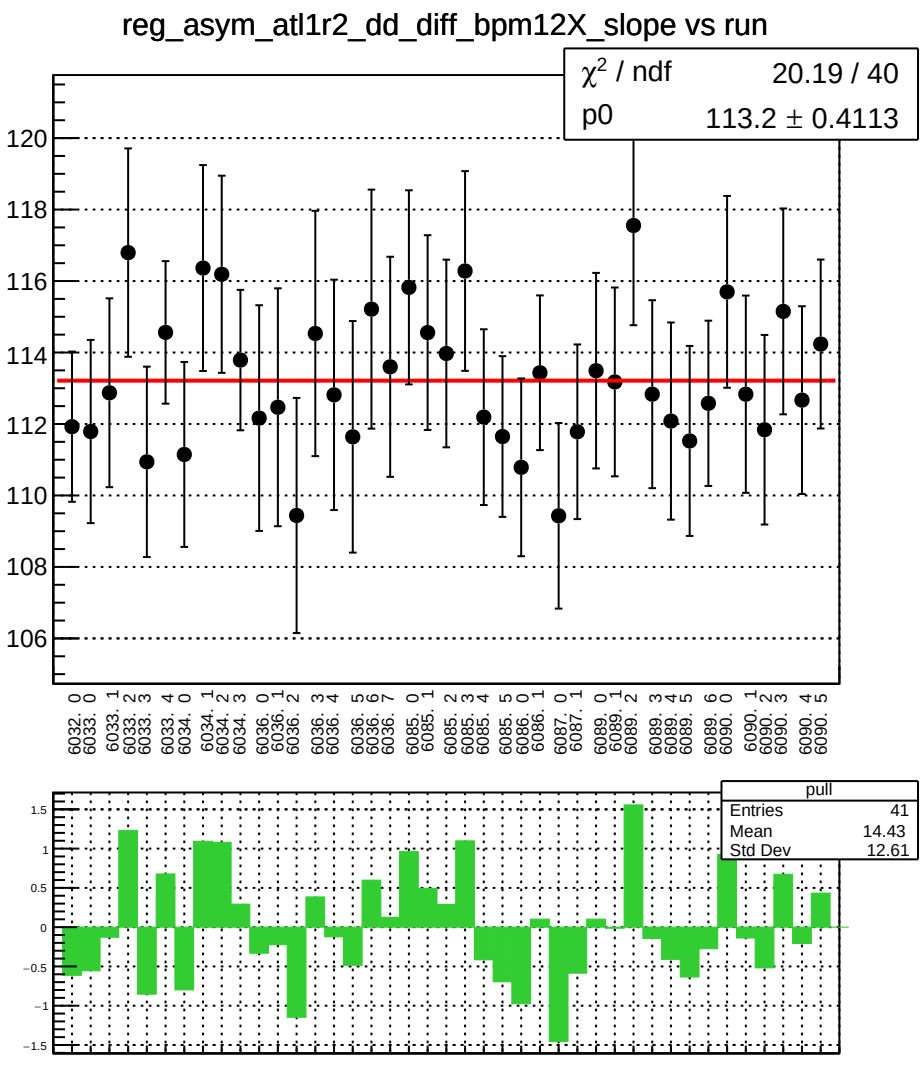

pull1D
Entries 41
Mean 0.01781
Std Dev 0.5148

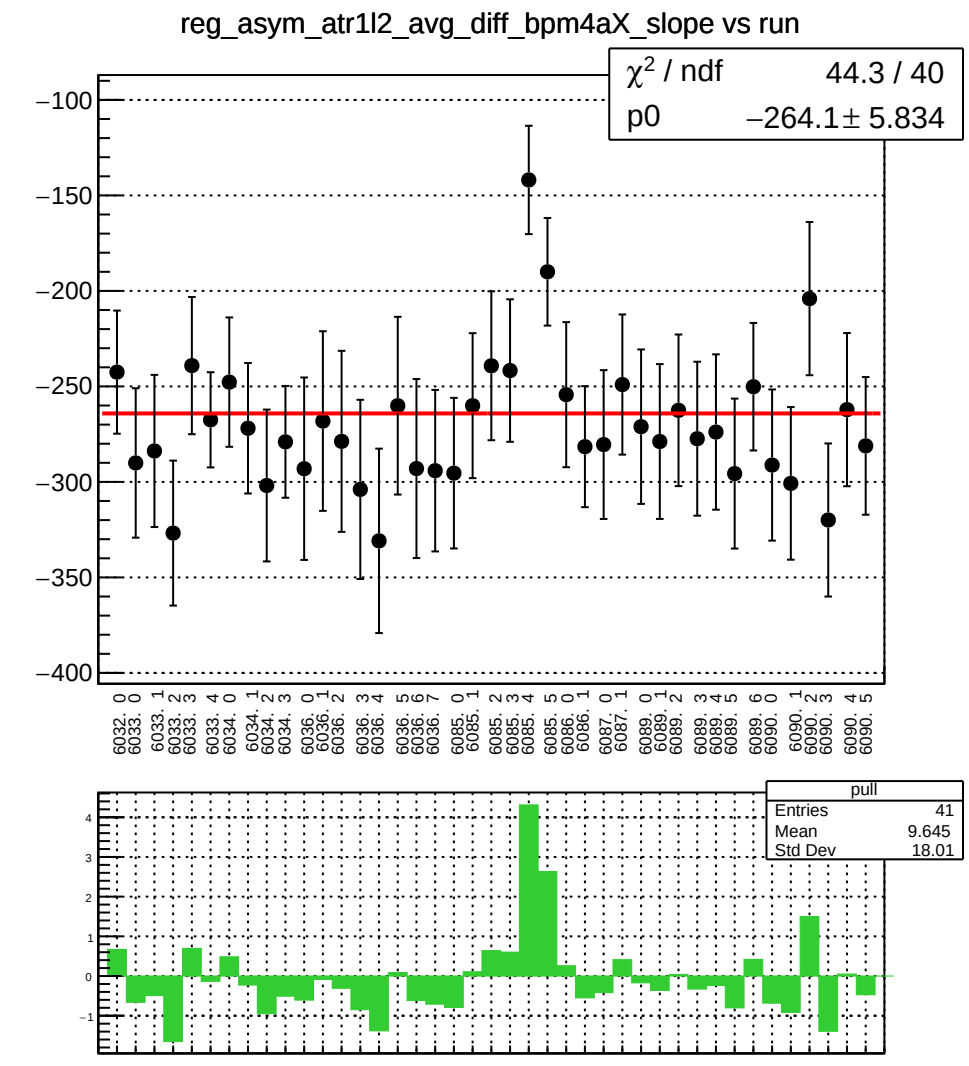

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.82 / 40
p0 −329.6 ± 9.016
−200
−250
−300
−350
−400
−450
−500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 16.52
Std Dev 8.806
2
1.5
1
0.5
0
−0.5
−1
−1.5

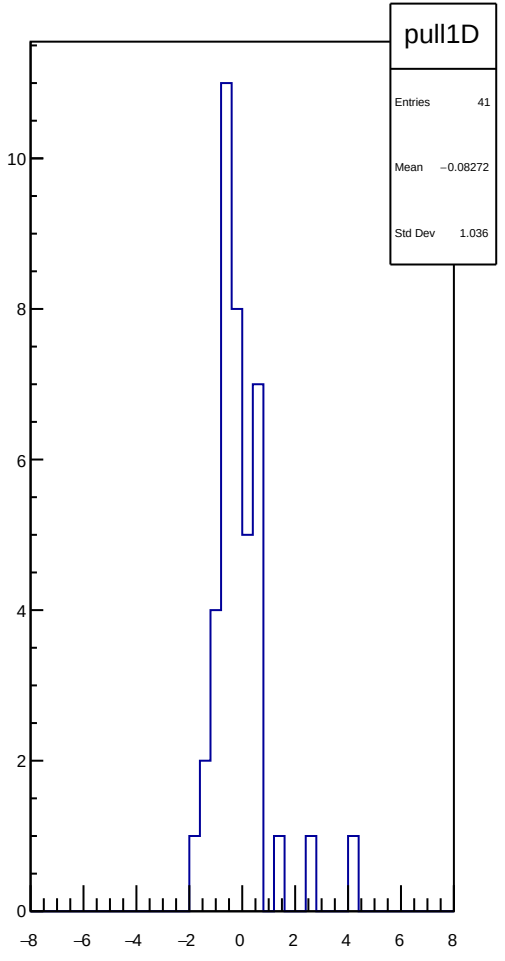

pull1D
Entries 41
Mean −0.06827
Std Dev 0.6919
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

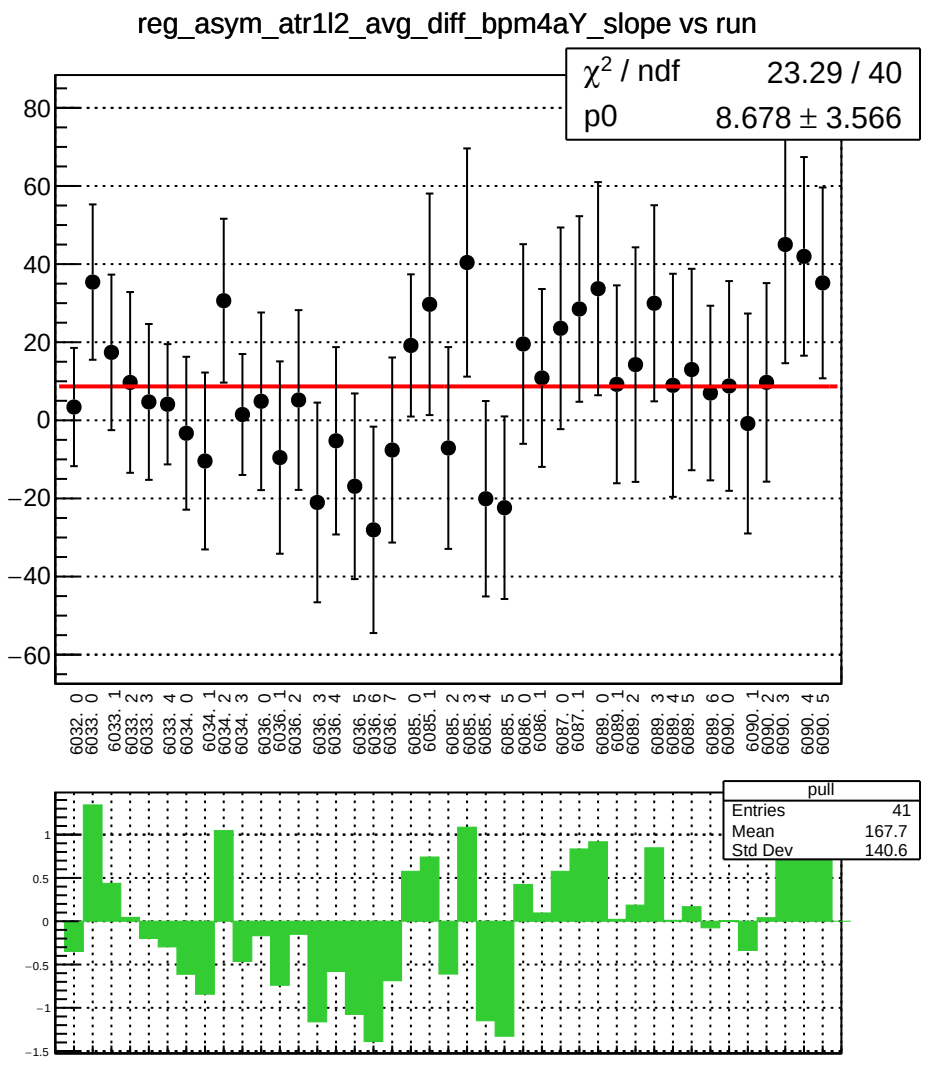

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.91 / 40
p0 −140.2 ± 5.32
pull
Entries 41
Mean 680.8
Std Dev 664.8

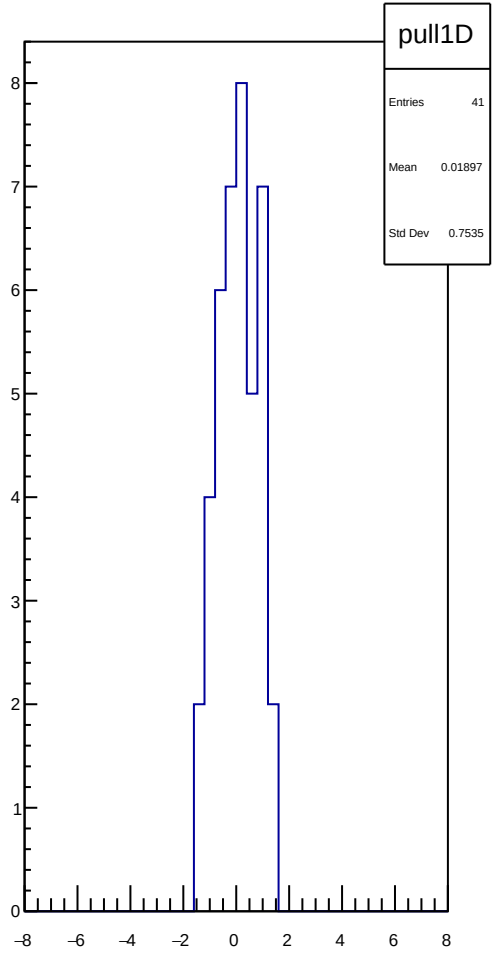

pull1D
Entries 41
Mean −0.004985
Std Dev 0.603

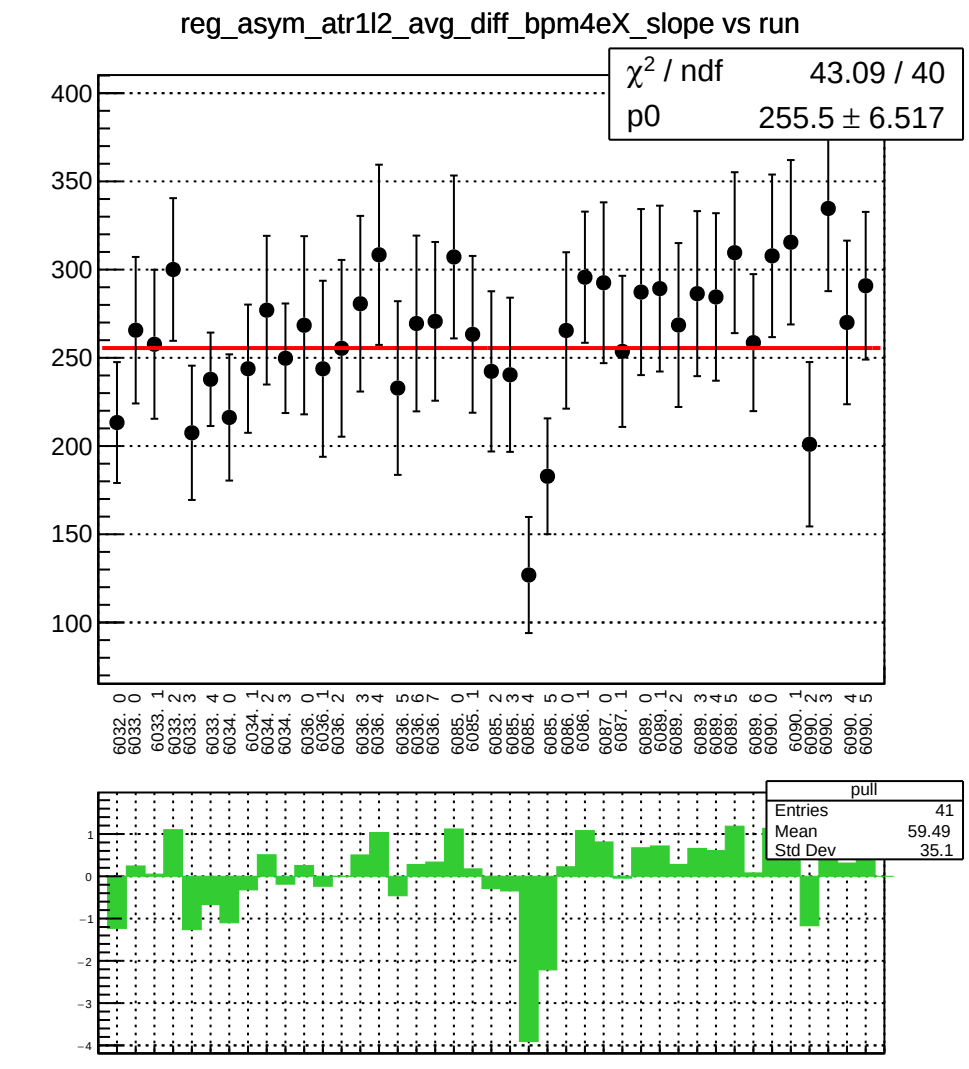

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.19 / 40
p0 113.2 ± 0.4113
120
118
116
114
112
110
108
106
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 14.43
Std Dev 12.61
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.009484
Std Dev 0.7017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

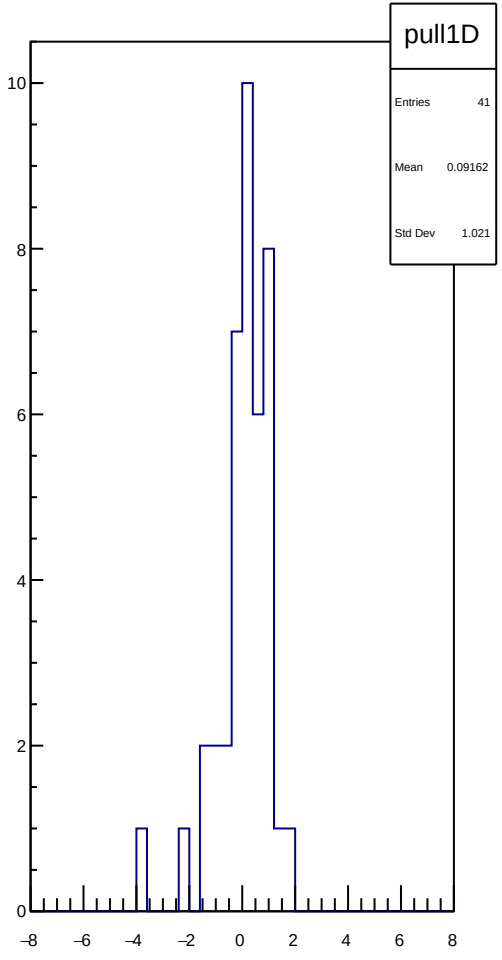

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 44.3 / 40
p0 −264.1 ± 5.834
pull
Entries 41
Mean 9.645
Std Dev 18.01

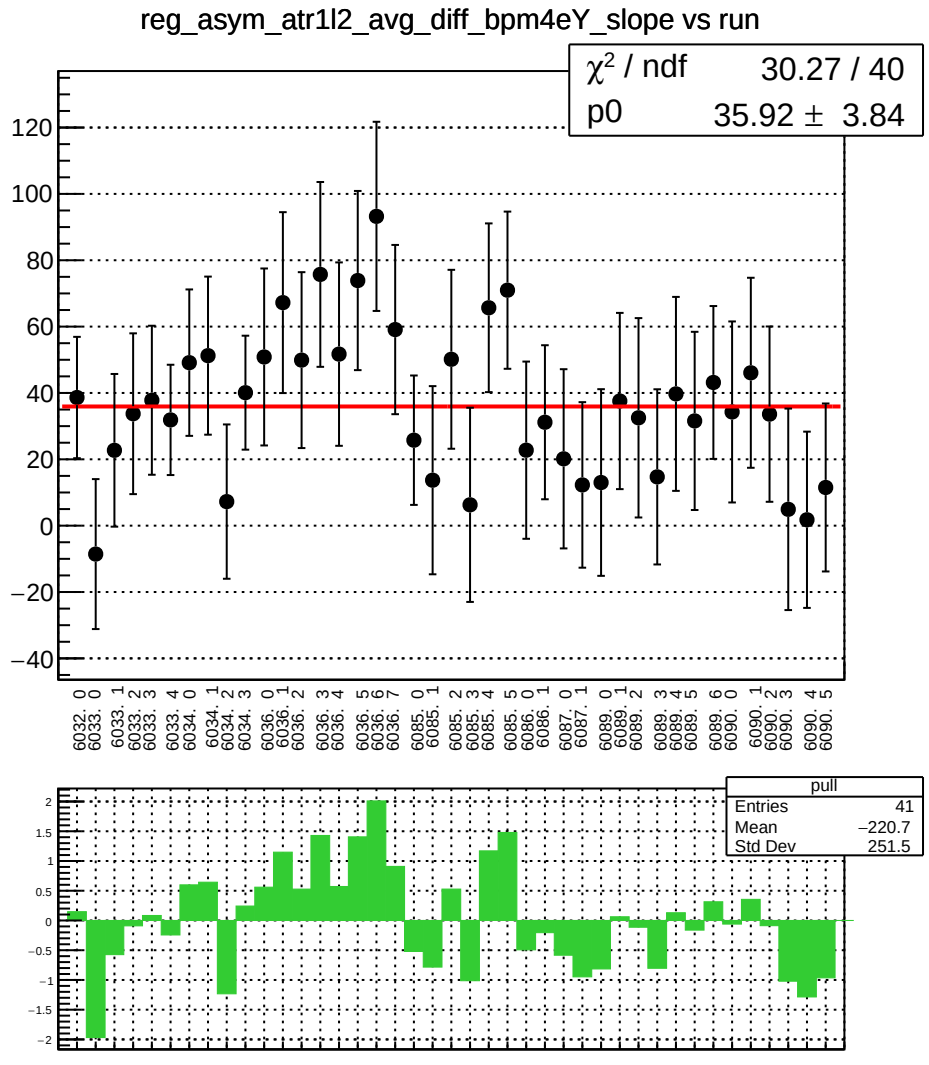

pull1D
Entries 41
Mean −0.08272
Std Dev 1.036

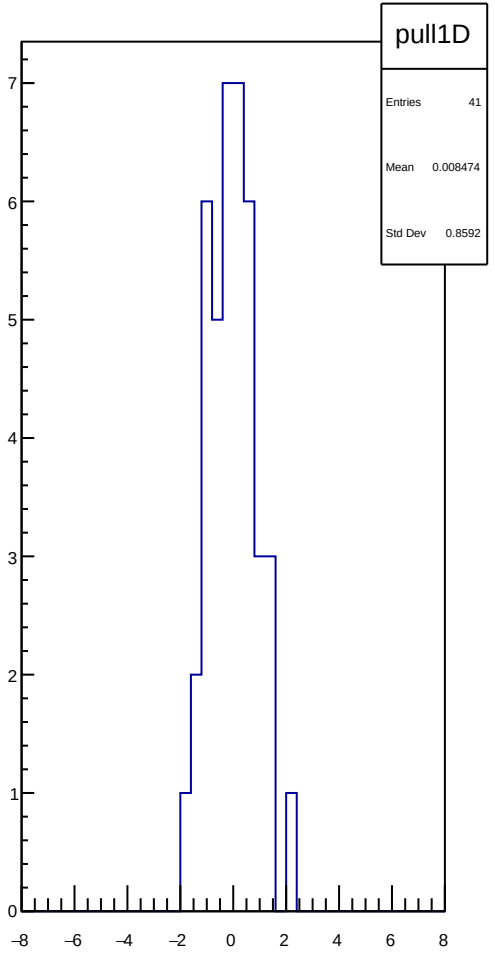

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.29 / 40
p0 8.678 ± 3.566
pull
Entries 41
Mean 167.7
Std Dev 140.6

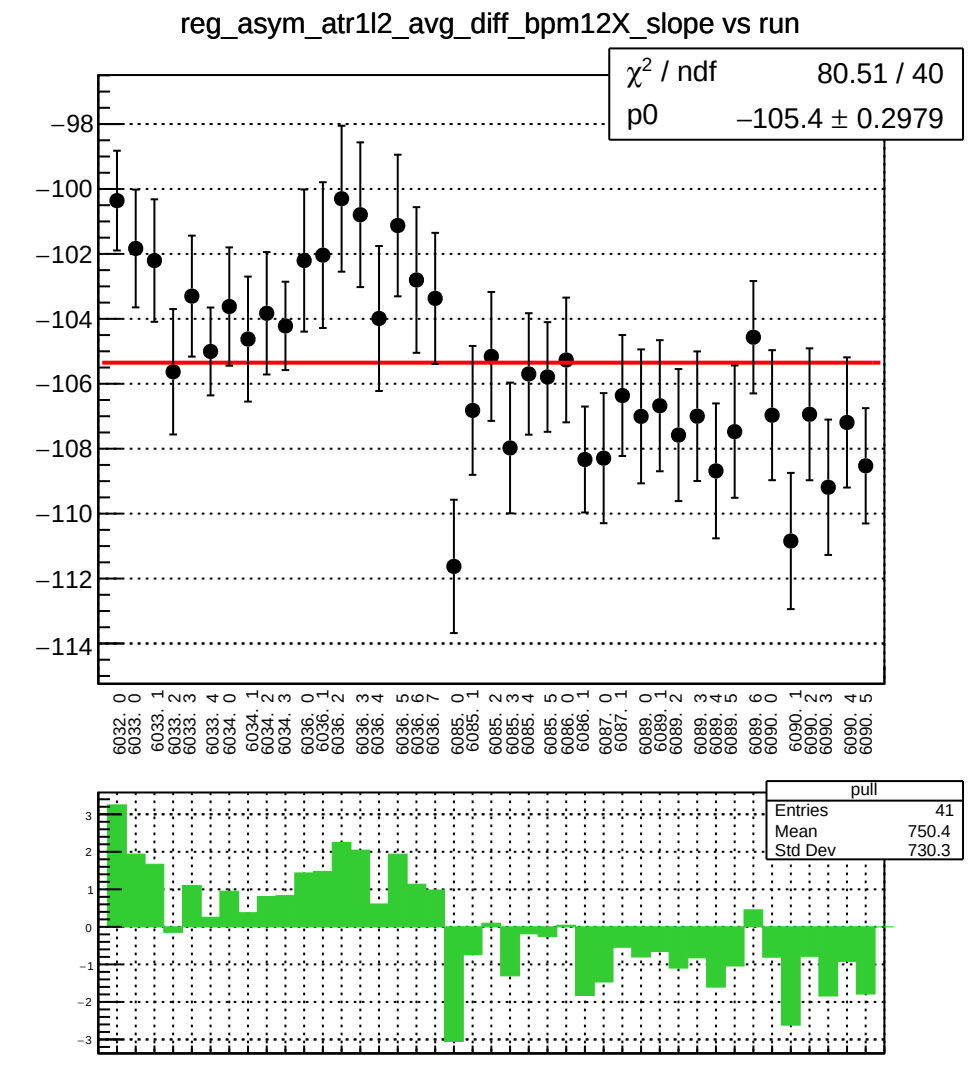

pull1D
Entries 41
Mean 0.01897
Std Dev 0.7535

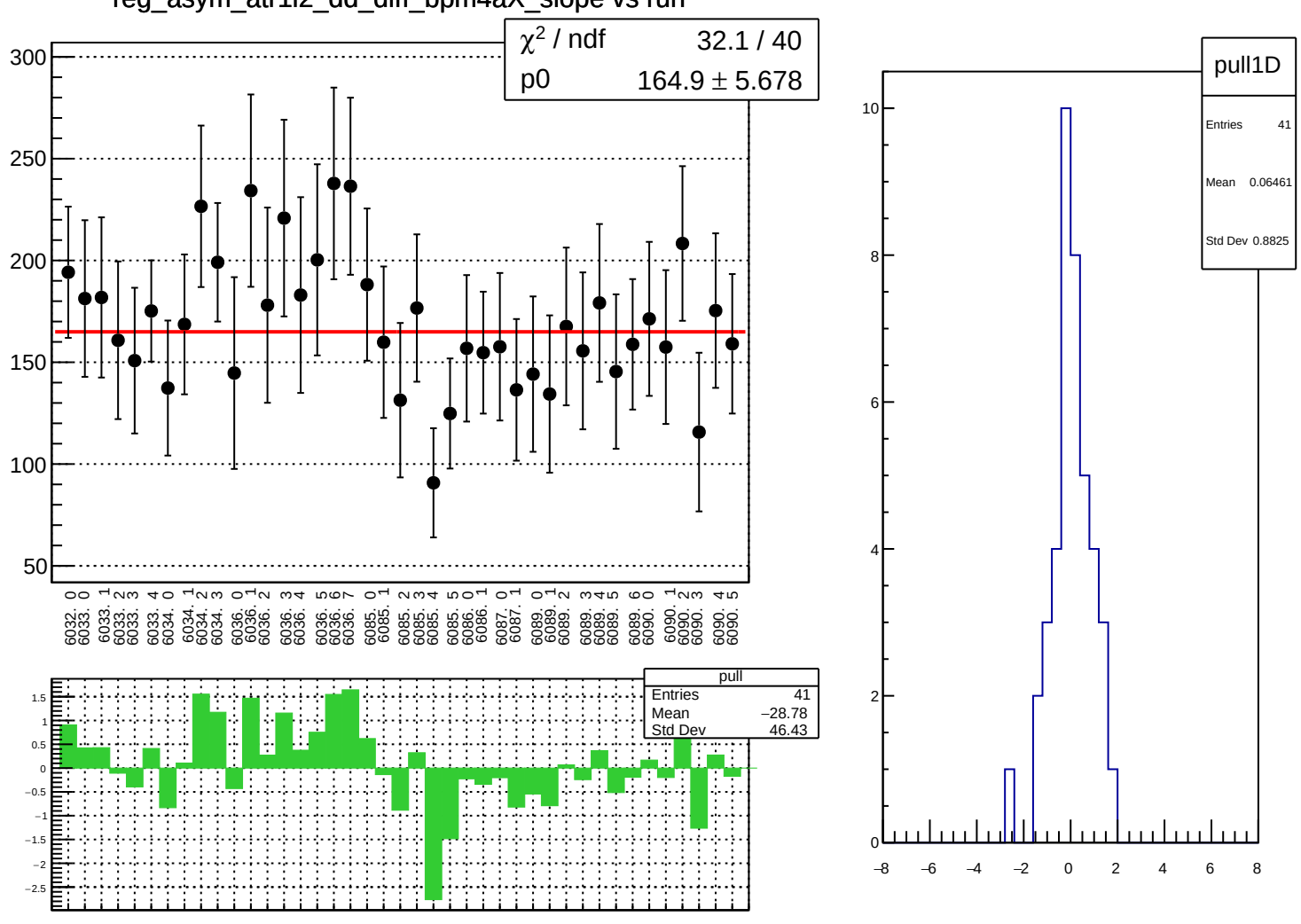

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.09 / 40
p0 255.5 ± 6.517
400
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 59.49
Std Dev 35.1
1
0
−1
−2
−3
−4

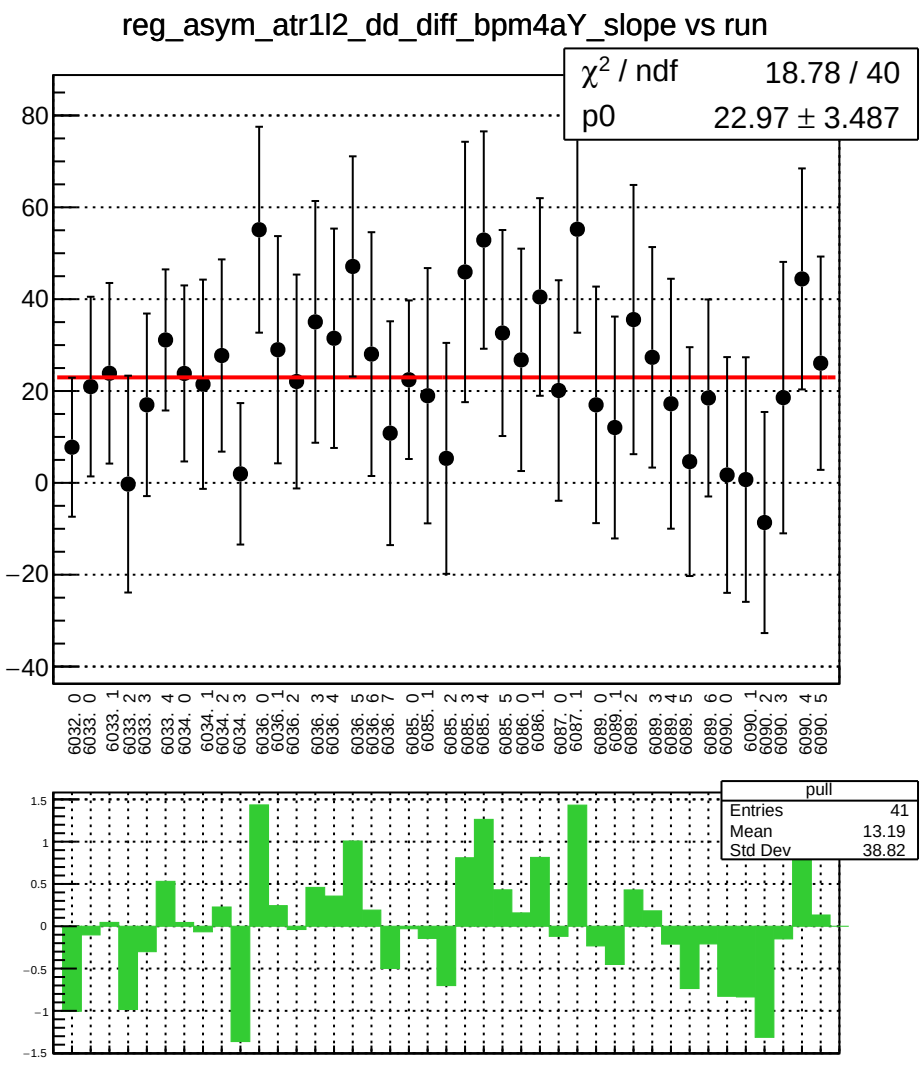

pull1D
Entries 41
Mean 0.09162
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

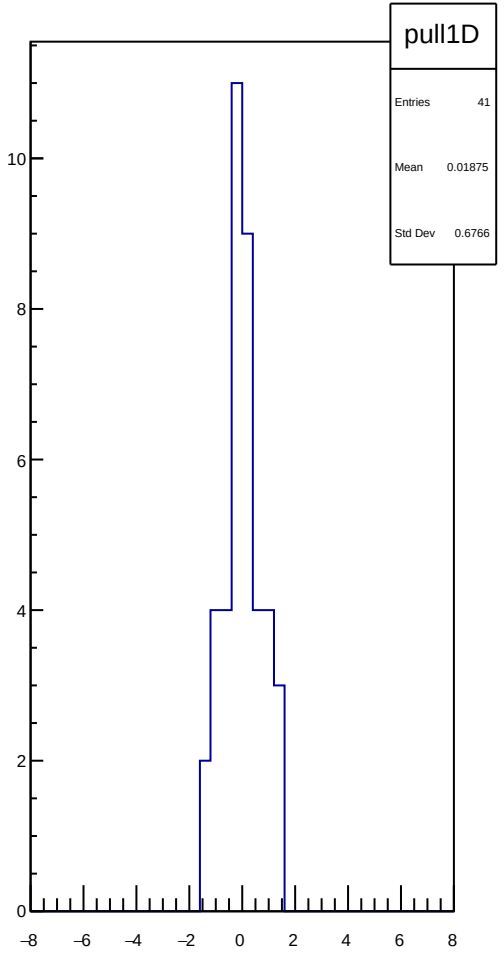

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.27 / 40
p0 35.92 ± 3.84
pull
Entries 41
Mean −220.7
Std Dev 251.5

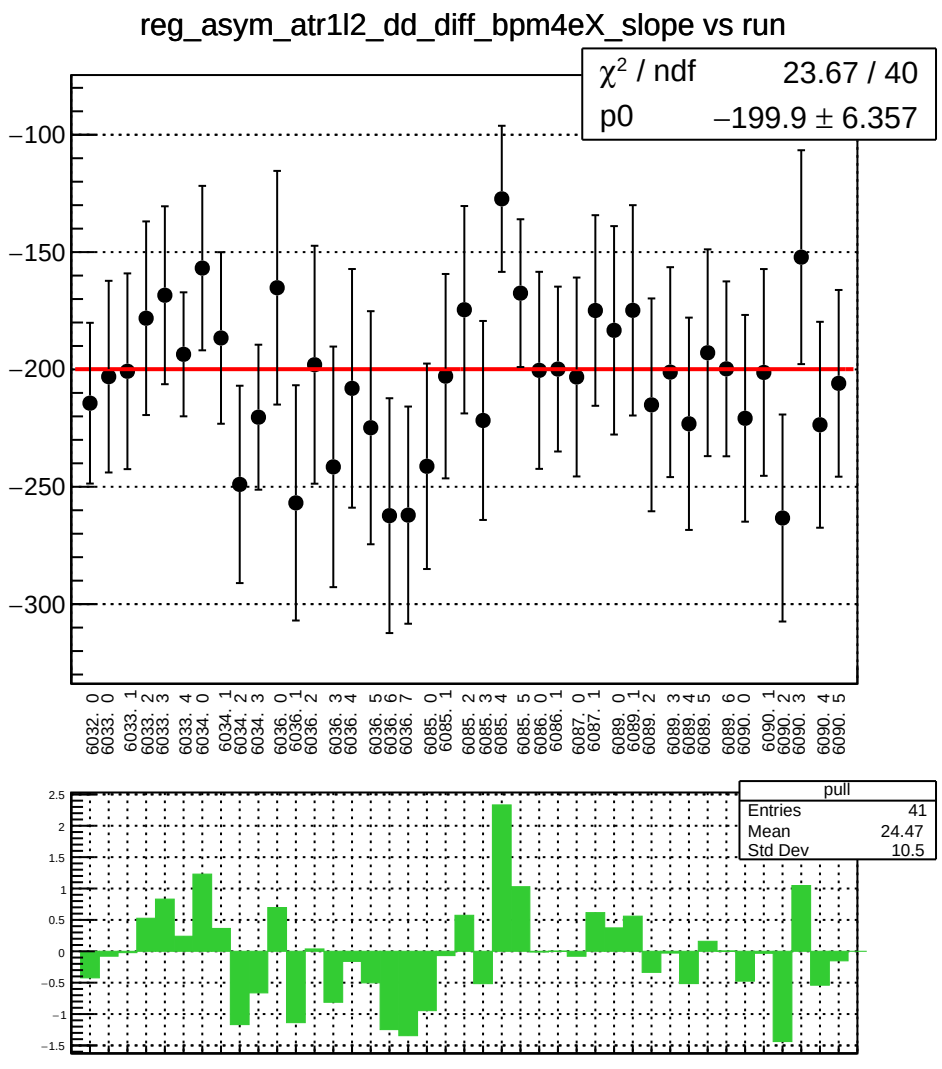

pull1D
Entries 41
Mean 0.008474
Std Dev 0.8592

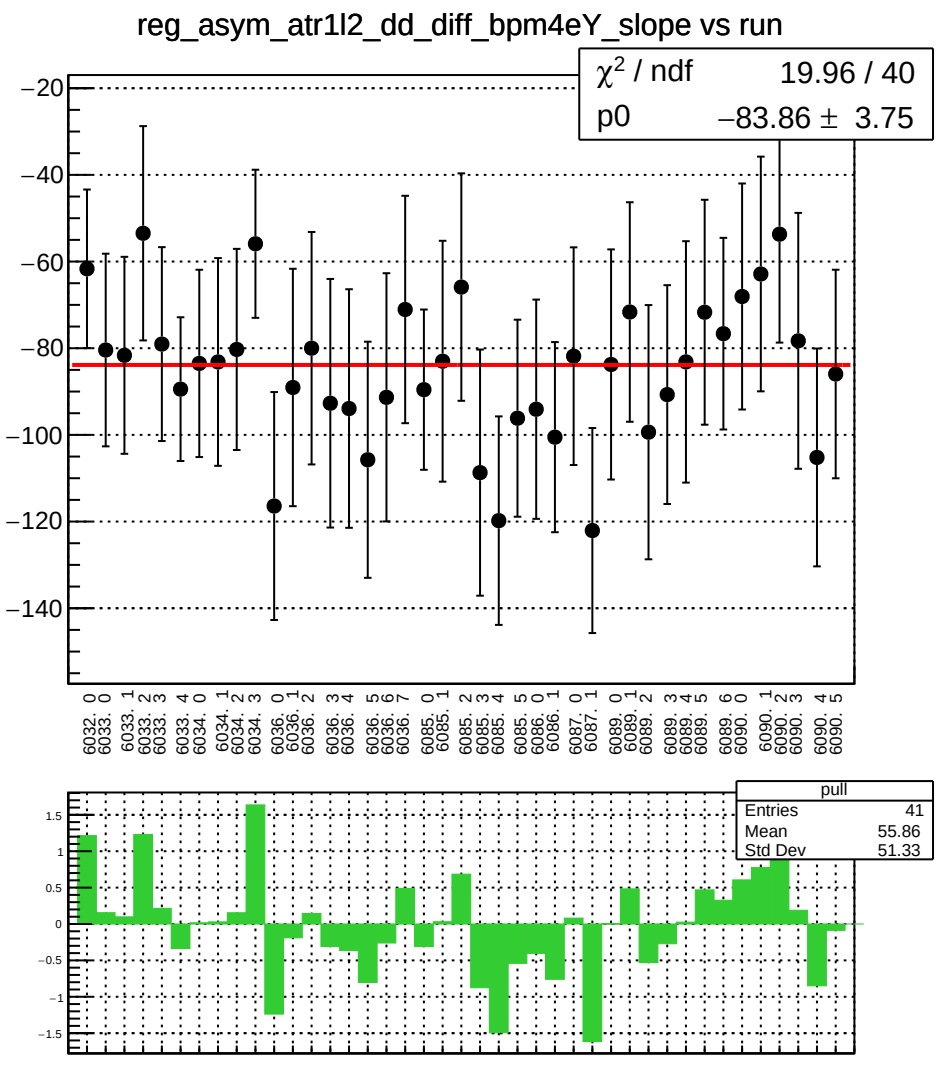

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 80.51 / 40
p0 −105.4 ± 0.2979
−98
−100
−102
−104
−106
−108
−110
−112
−114
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 750.4
Std Dev 730.3
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.01665
Std Dev 1.401
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

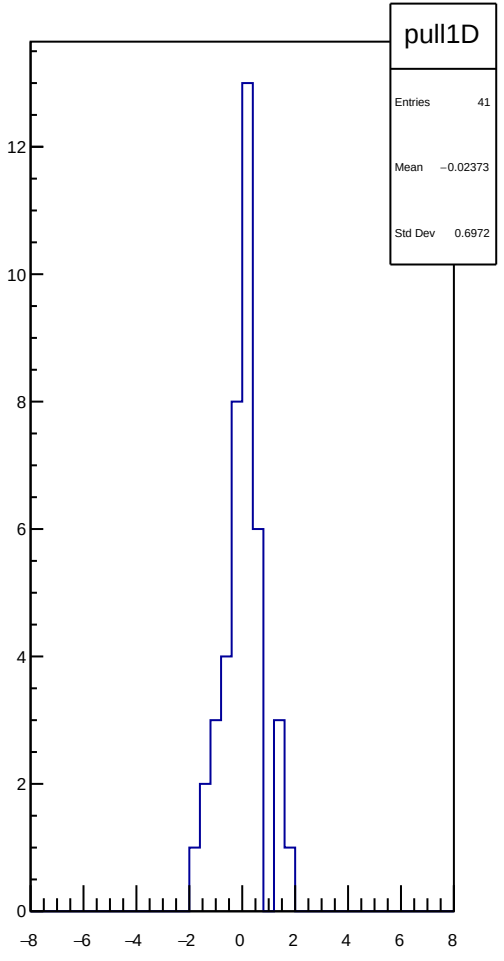

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.1 / 40
p0 164.9 ± 5.678
300
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −28.78
Std Dev 46.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.06461
Std Dev 0.8825
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

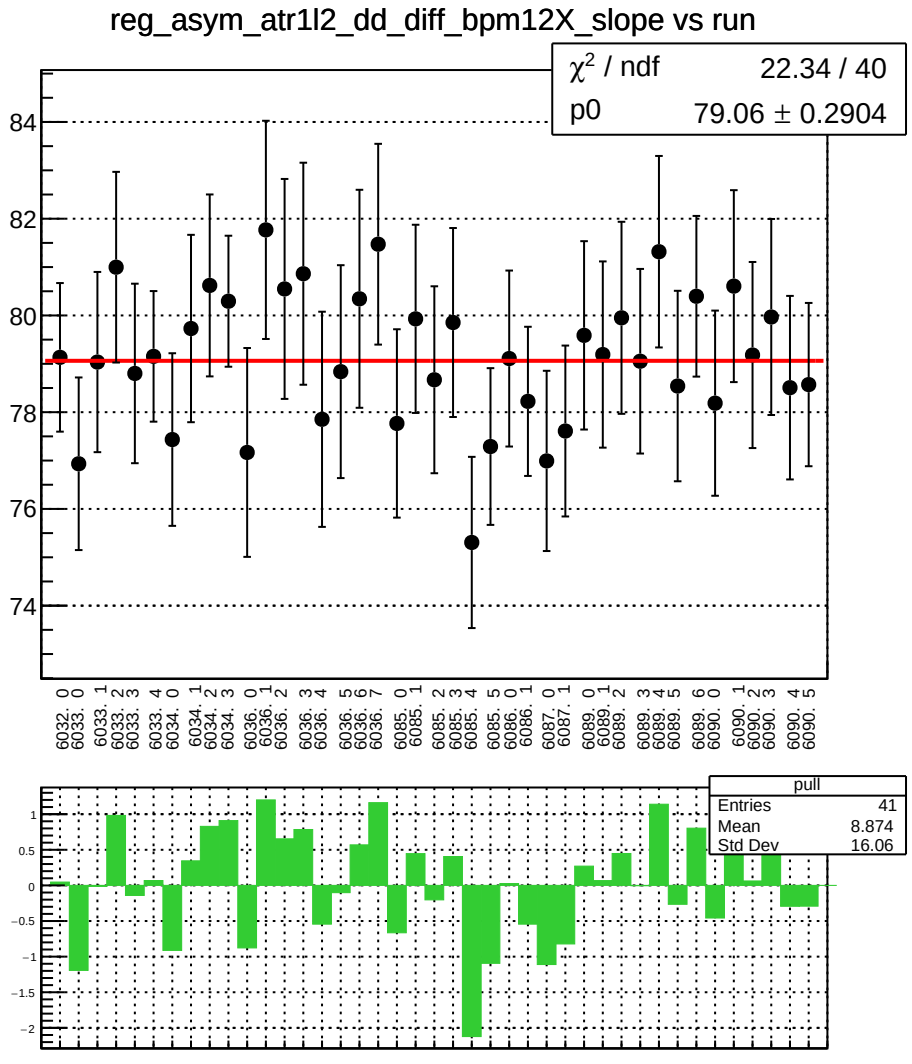

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.78 / 40
p0 22.97 ± 3.487
pull
Entries 41
Mean 13.19
Std Dev 38.82

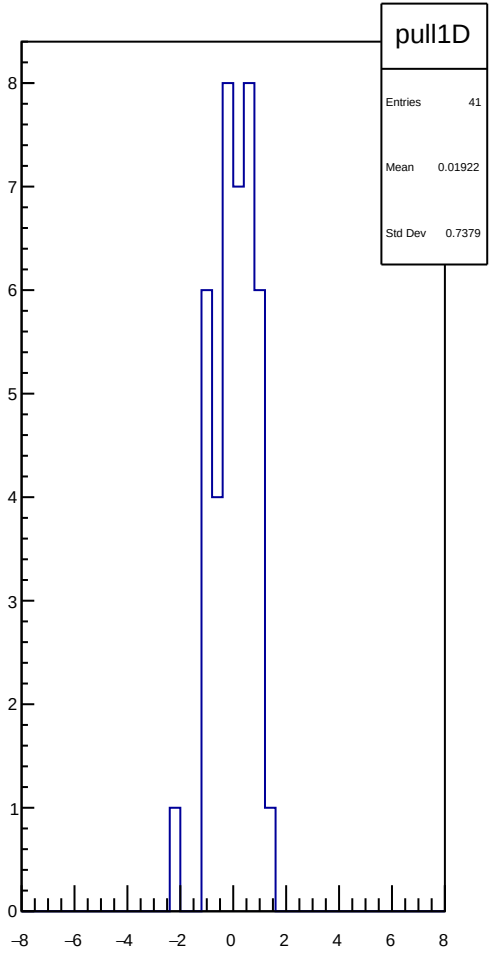

pull1D
Entries 41
Mean 0.01875
Std Dev 0.6766

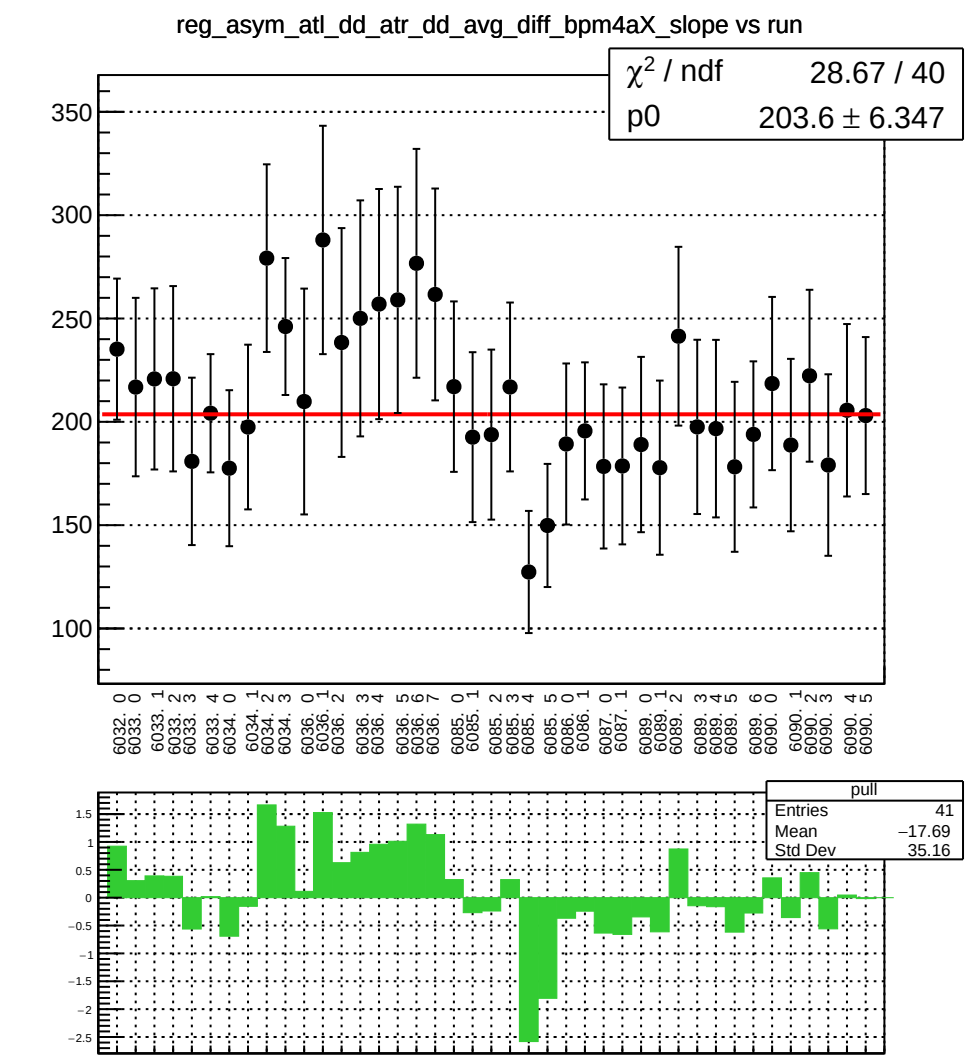

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.67 / 40
p0 −199.9 ± 6.357
−100
−150
−200
−250
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 24.47
Std Dev 10.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.05054
Std Dev 0.7582
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

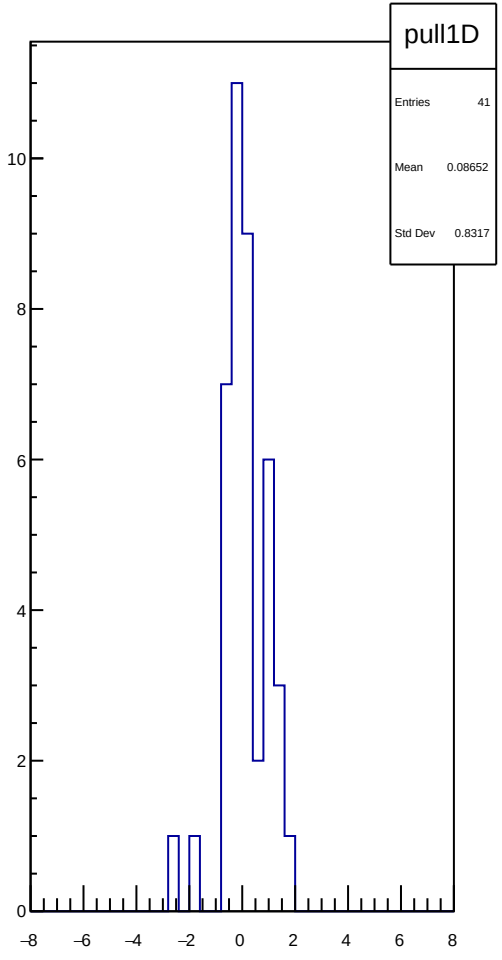

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.96 / 40
p0 −83.86 ± 3.75
pull
Entries 41
Mean 55.86
Std Dev 51.33

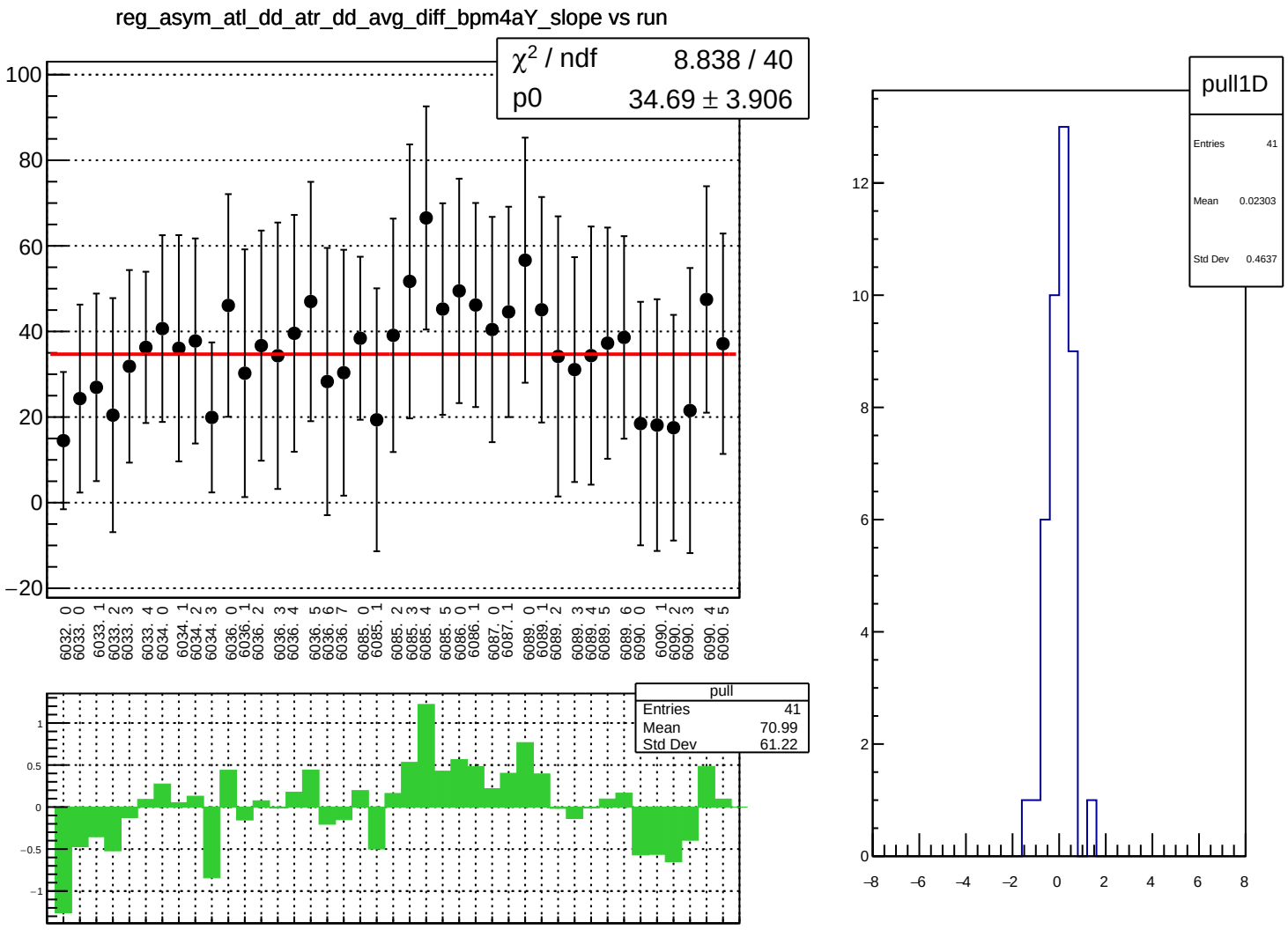

pull1D
Entries 41
Mean −0.02373
Std Dev 0.6972

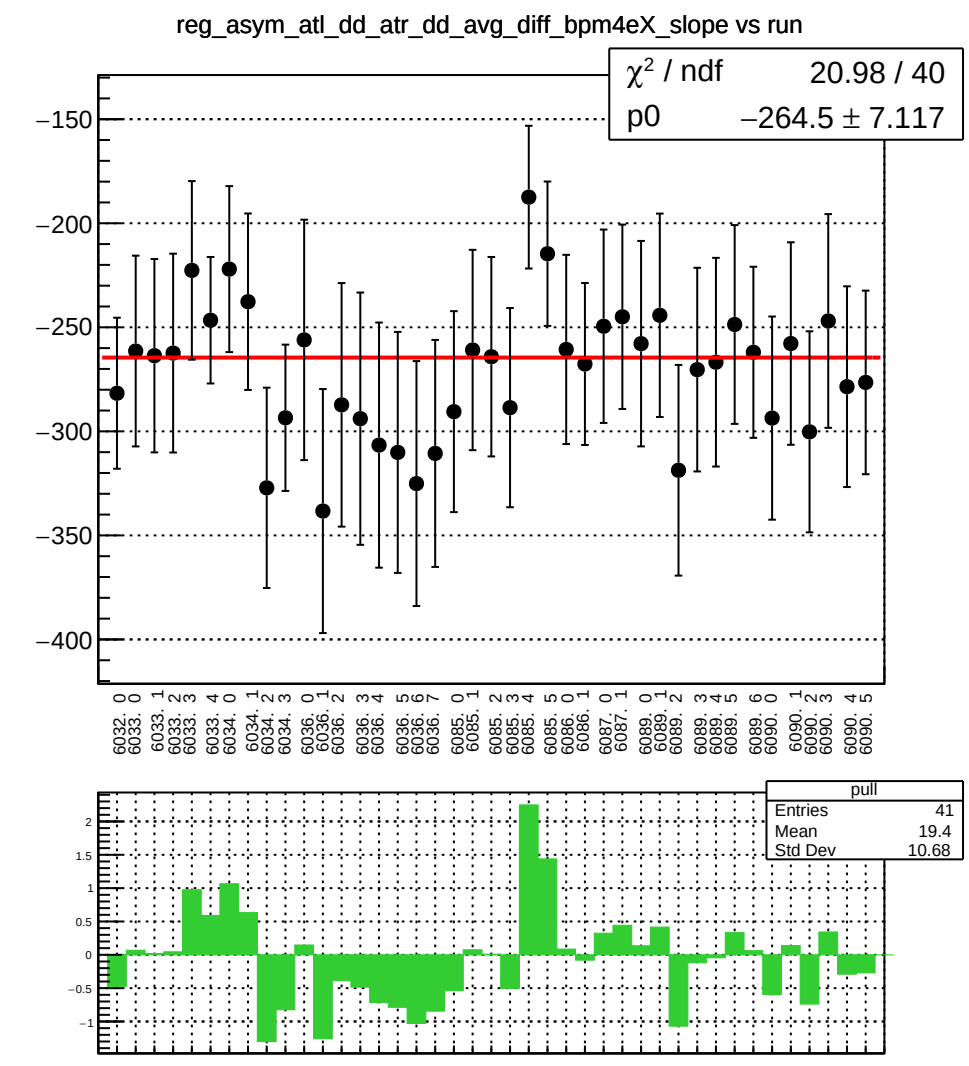

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.34 / 40
p0 79.06 ± 0.2904
84
82
80
78
76
74
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 8.874
Std Dev 16.06
1
0.5
0
−0.5
−1
−1.5
−2

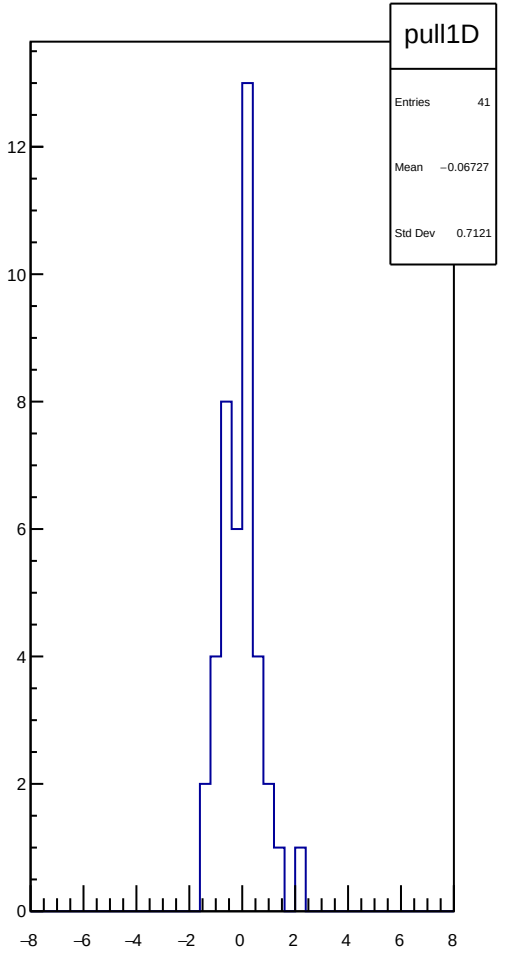

pull1D
Entries 41
Mean 0.01922
Std Dev 0.7379
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

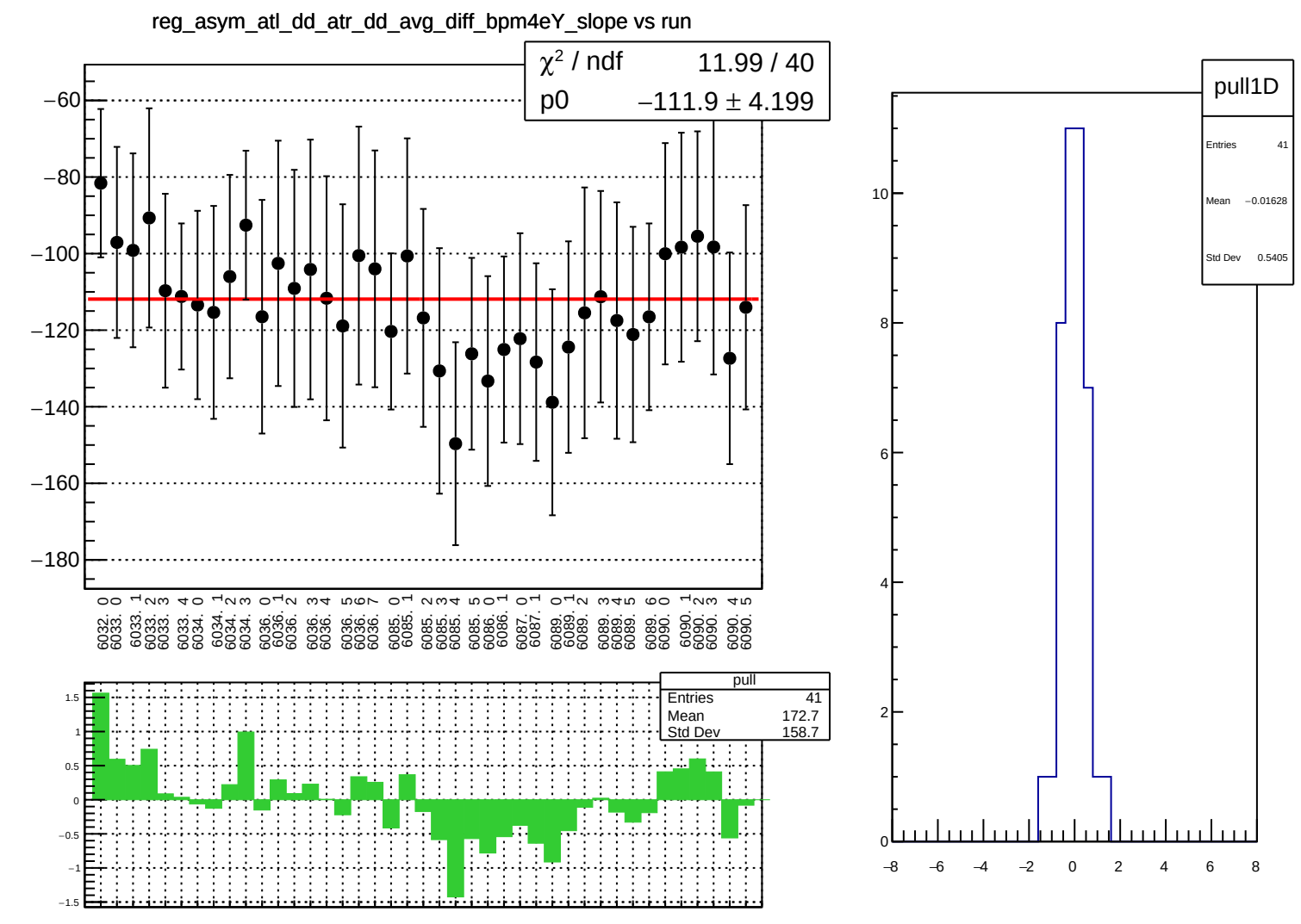

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.67 / 40
p0 203.6 ± 6.347
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −17.69
Std Dev 35.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

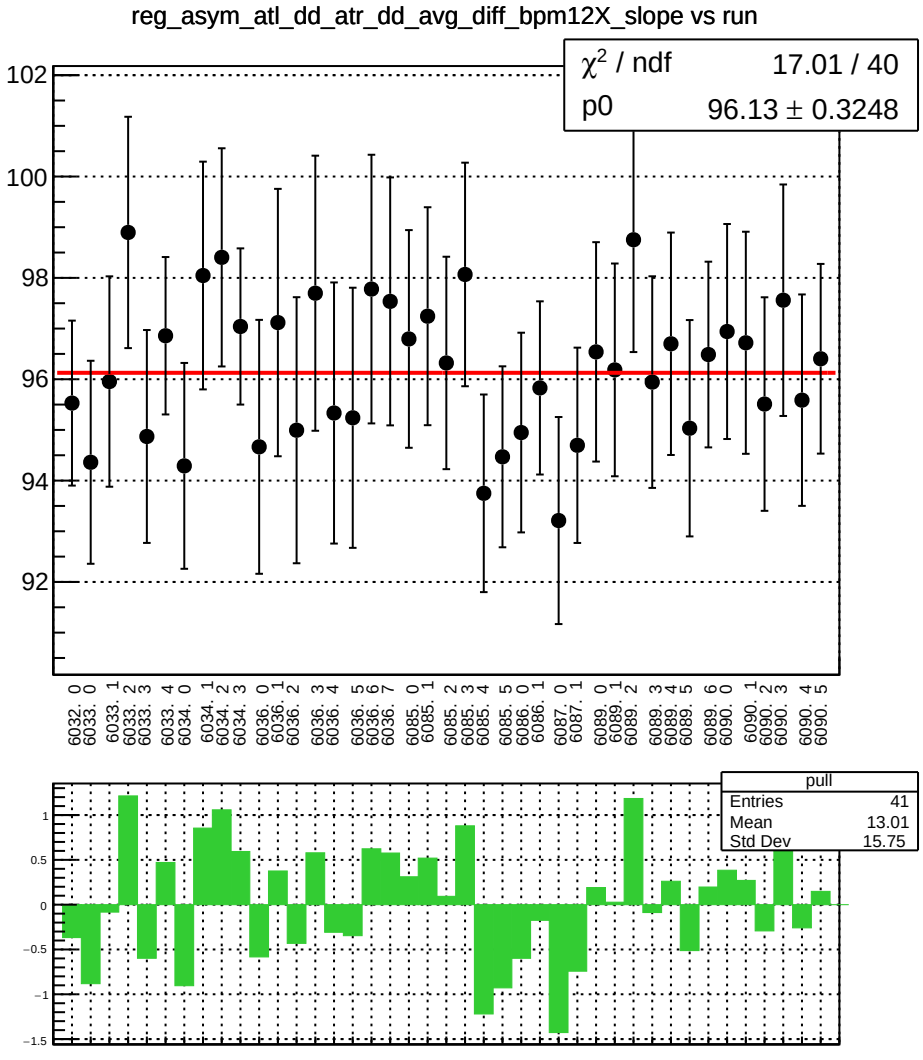

pull1D
Entries 41
Mean 0.08652
Std Dev 0.8317
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

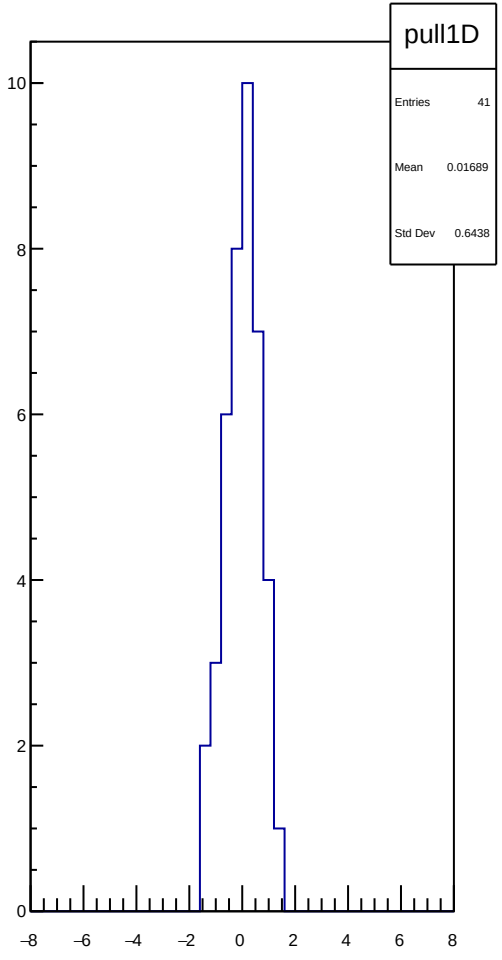

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.838 / 40
p0 34.69 ± 3.906
pull
Entries 41
Mean 70.99
Std Dev 61.22
pull1D
Entries 41
Mean 0.02303
Std Dev 0.4637

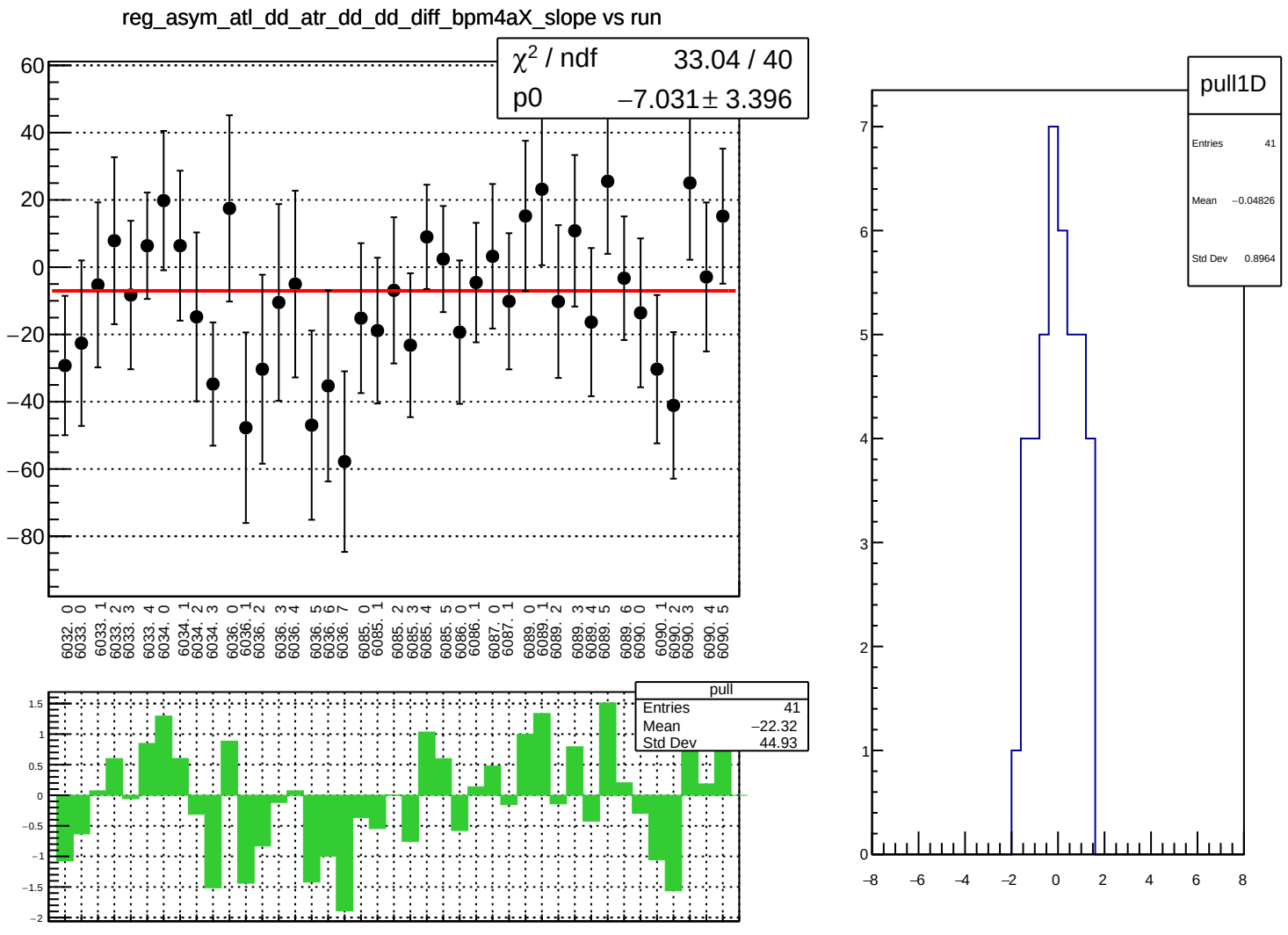

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.98 / 40
p0 −264.5 ± 7.117
pull
Entries 41
Mean 19.4
Std Dev 10.68

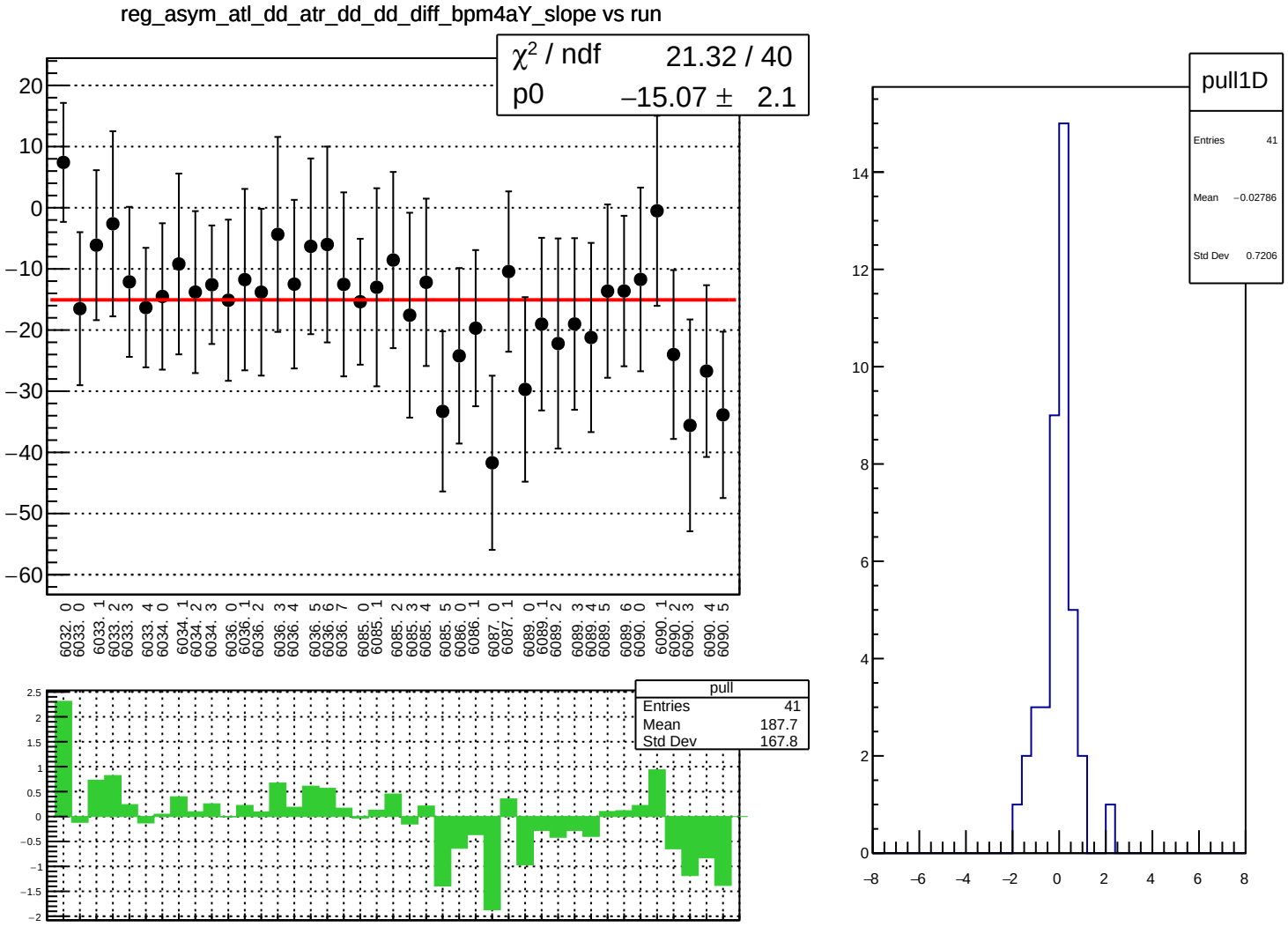

pull1D
Entries 41
Mean −0.06727
Std Dev 0.7121

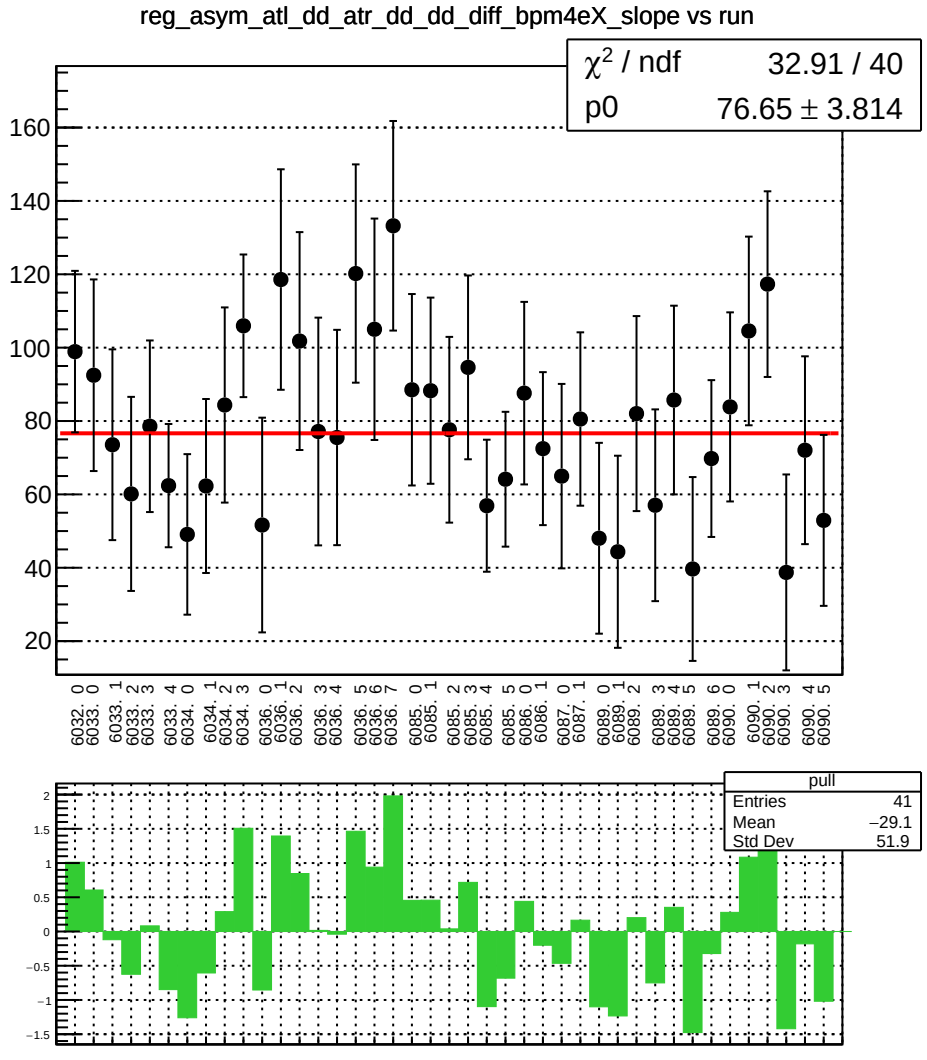

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.99 / 40
p0 −111.9 ± 4.199
−60
−80
−100
−120
−140
−160
−180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 172.7
Std Dev 158.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01628
Std Dev 0.5405
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

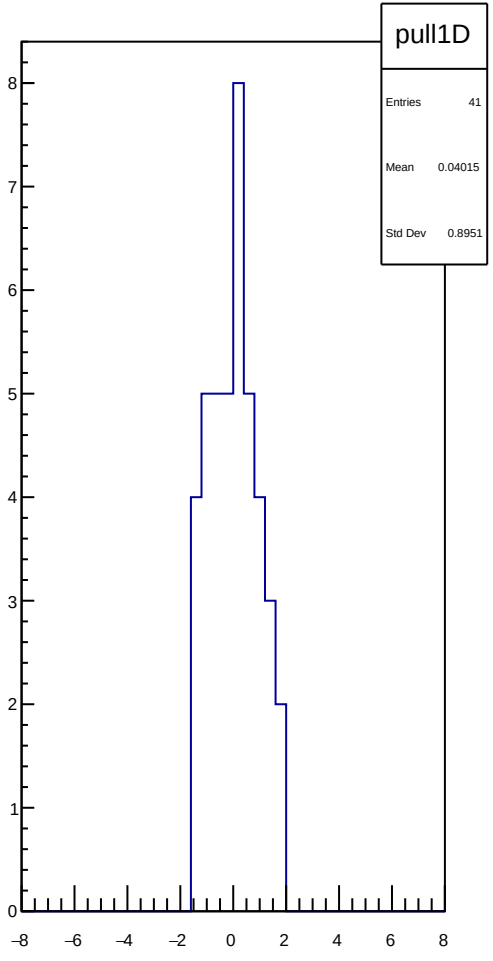

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 17.01 / 40
p0 96.13 ± 0.3248
102
100
98
96
94
92
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 13.01
Std Dev 15.75
1
0.5
0
−0.5
−1
−1.5

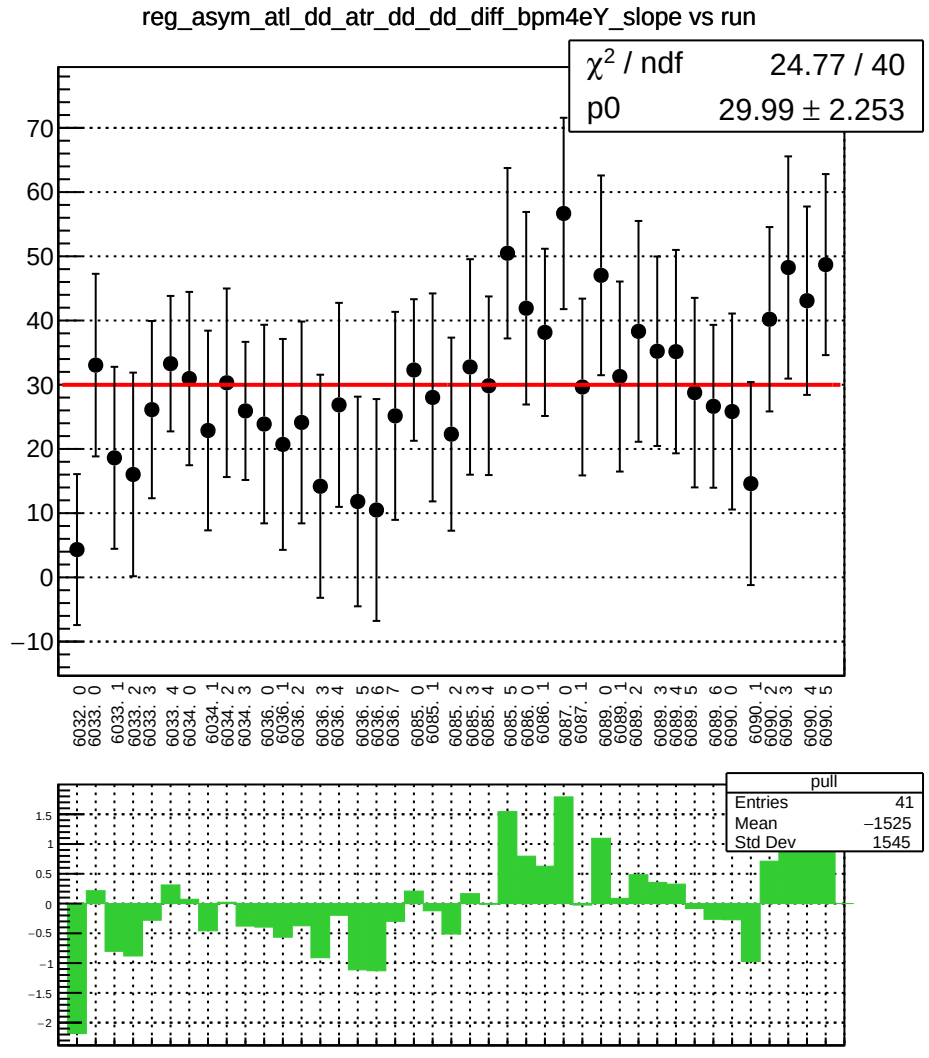

pull1D
Entries 41
Mean 0.01689
Std Dev 0.6438
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

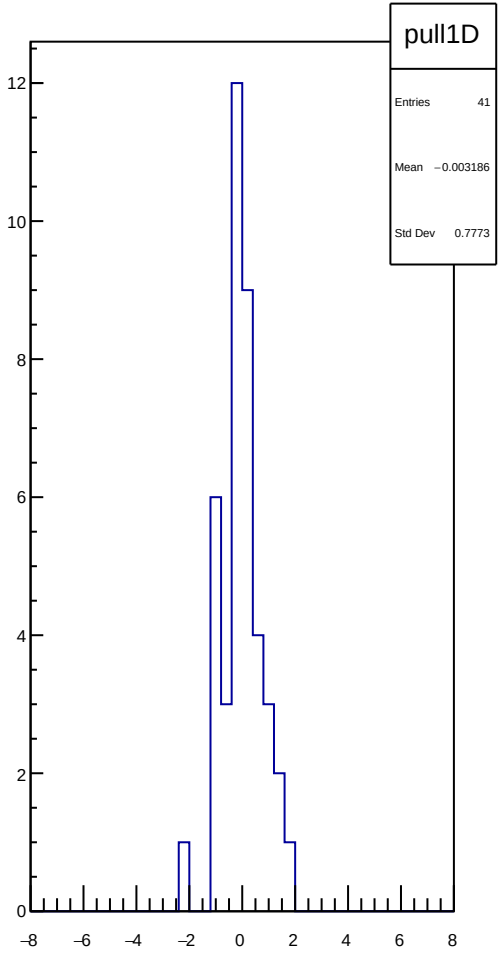

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.04 / 40
p0 −7.031 ± 3.396
pull
Entries 41
Mean −22.32
Std Dev 44.93
pull1D
Entries 41
Mean −0.04826
Std Dev 0.8964

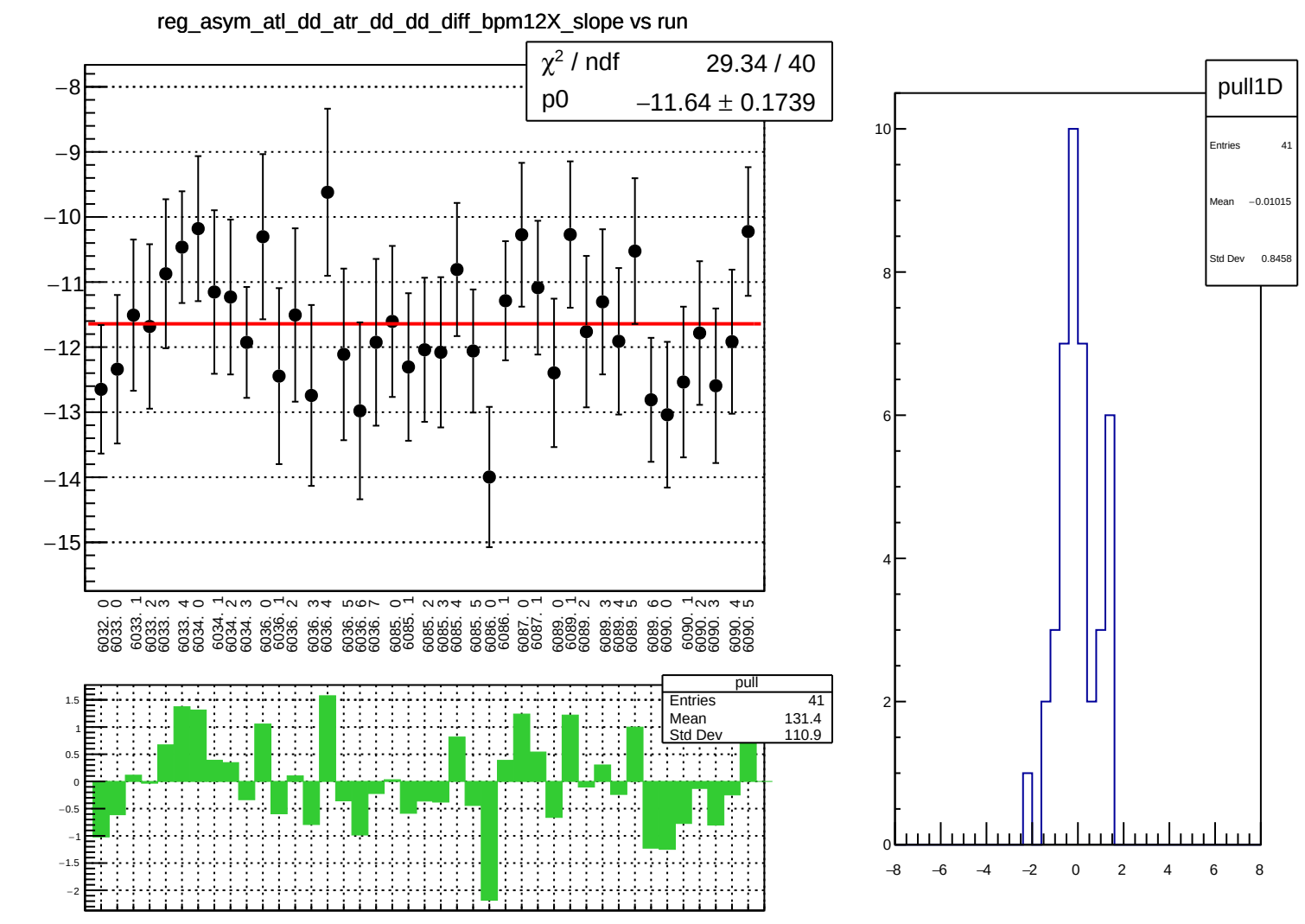

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.32 / 40
p0 −15.07 ± 2.1
pull
Entries 41
Mean 187.7
Std Dev 167.8
pull1D
Entries 41
Mean −0.02786
Std Dev 0.7206

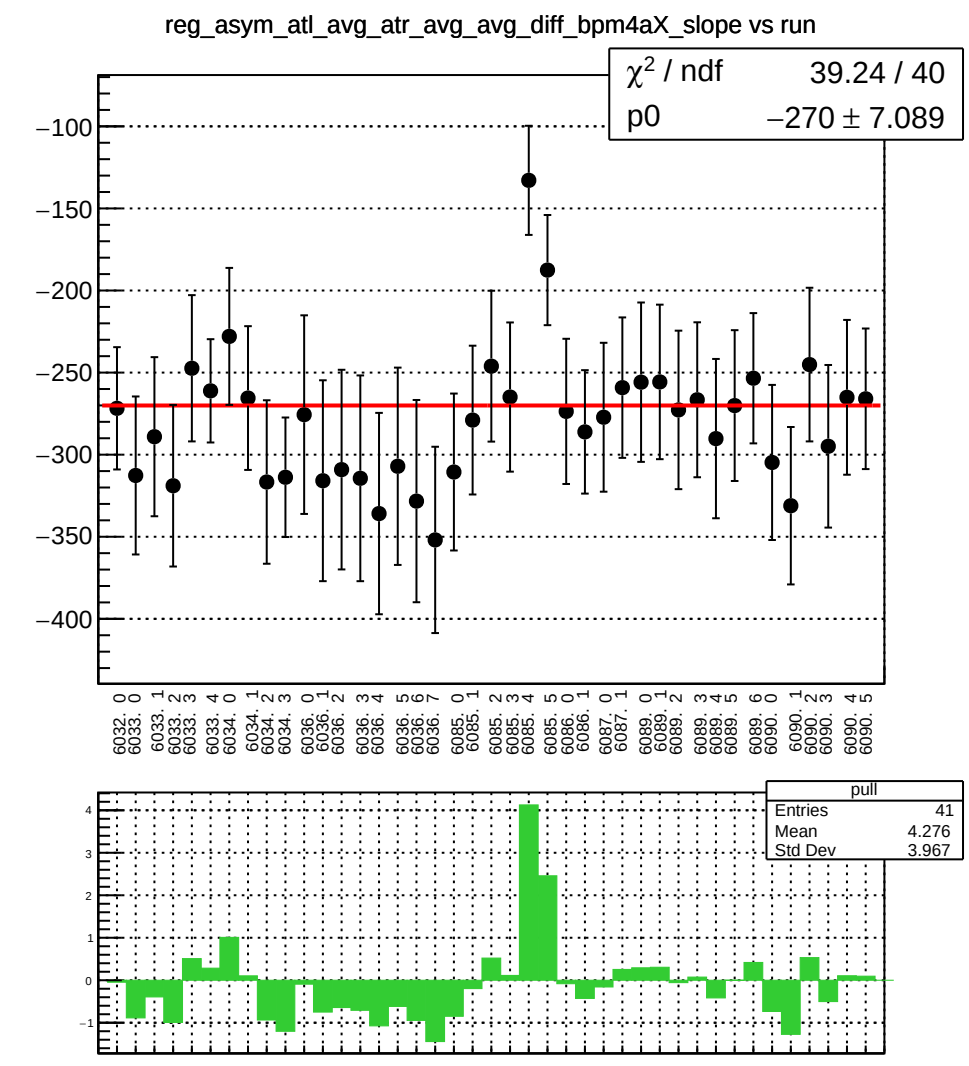

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.91 / 40
p0 76.65 ± 3.814
pull
Entries 41
Mean −29.1
Std Dev 51.9

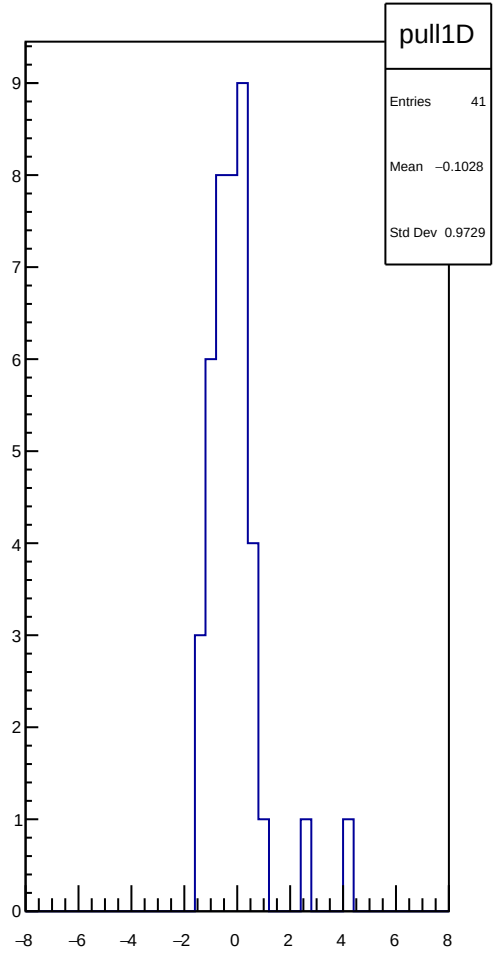

pull1D
Entries 41
Mean 0.04015
Std Dev 0.8951

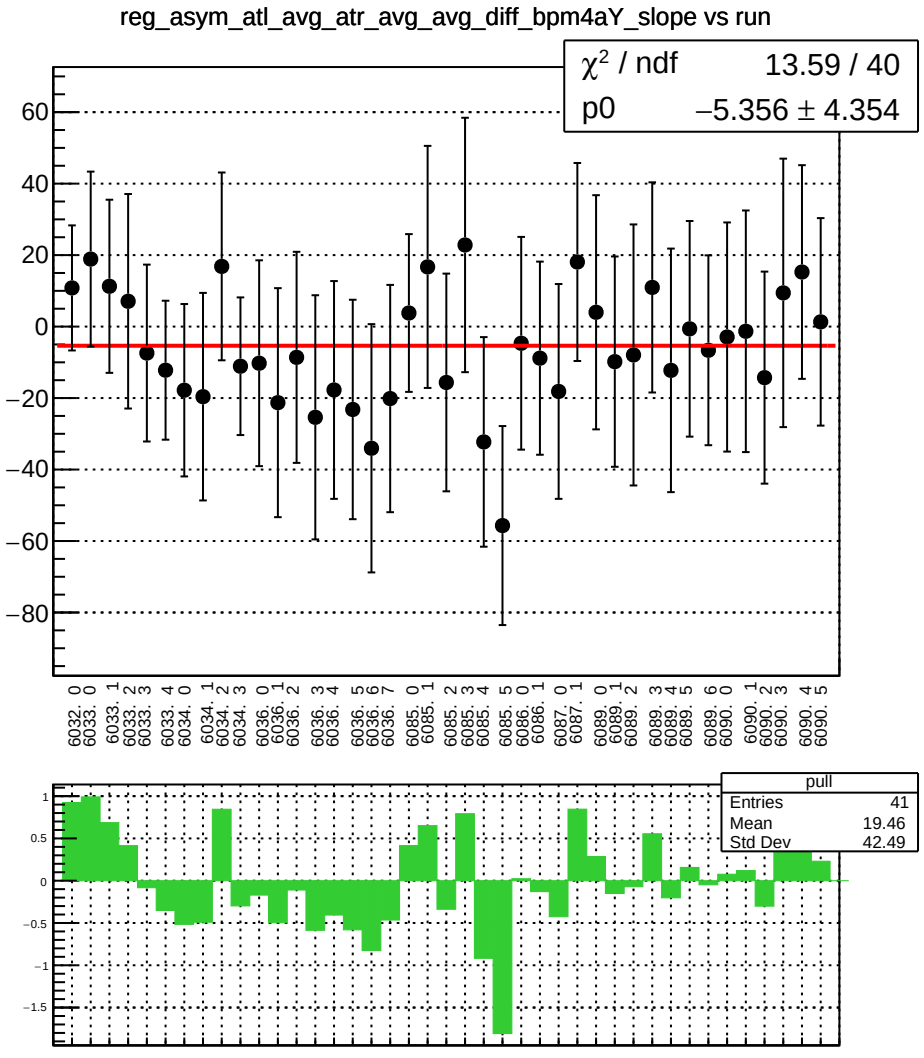

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.77 / 40
p0 29.99 ± 2.253
pull
Entries 41
Mean −1525
Std Dev 1545

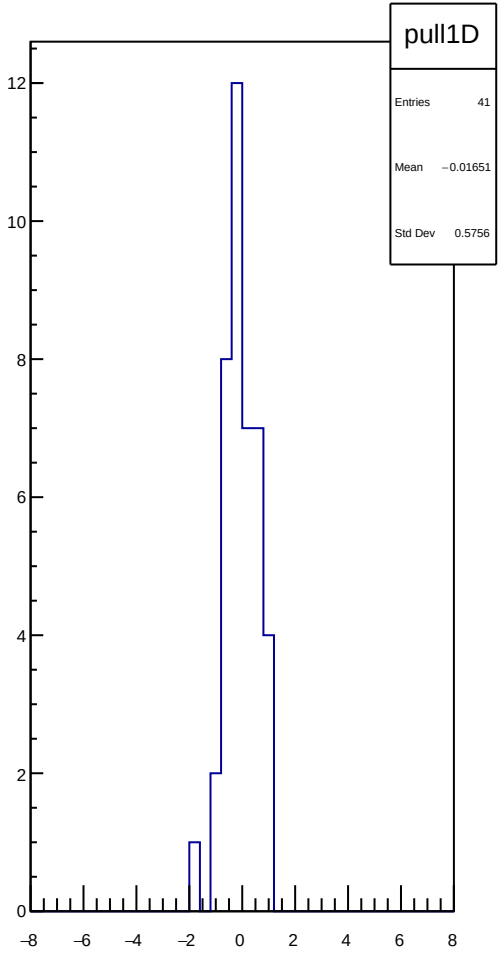

pull1D
Entries 41
Mean −0.003186
Std Dev 0.7773

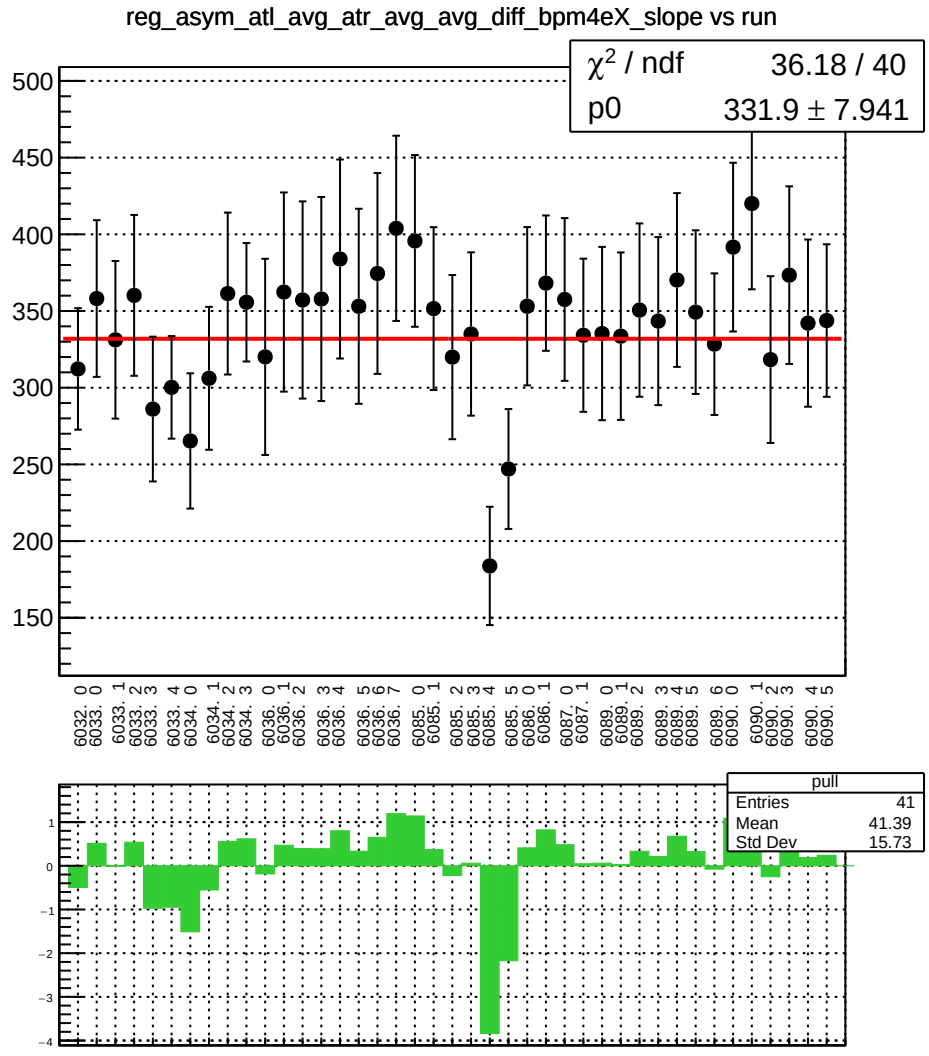

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 29.34 / 40
p0 −11.64 ± 0.1739
pull
Entries 41
Mean 131.4
Std Dev 110.9
pull1D
Entries 41
Mean −0.01015
Std Dev 0.8458

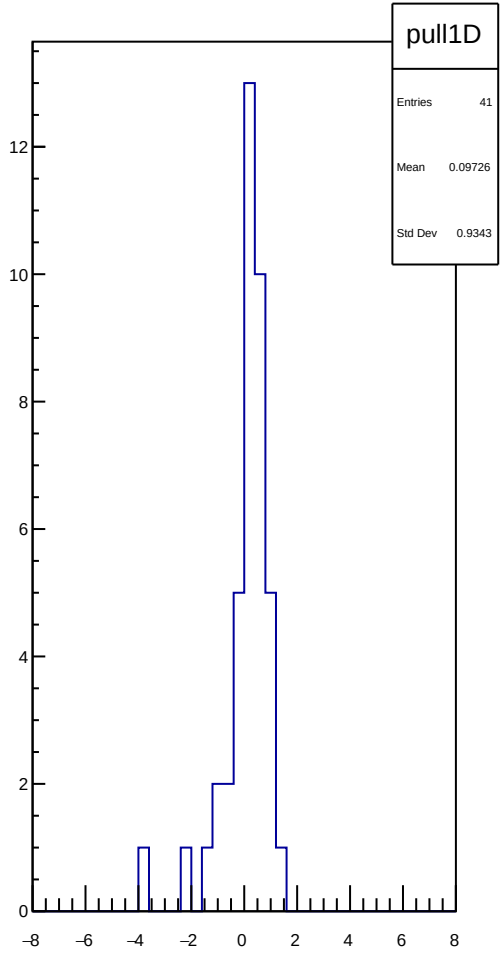

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.24 / 40
p0 −270 ± 7.089
−100
−150
−200
−250
−300
−350
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 4.276
Std Dev 3.967
4
3
2
1
0
−1

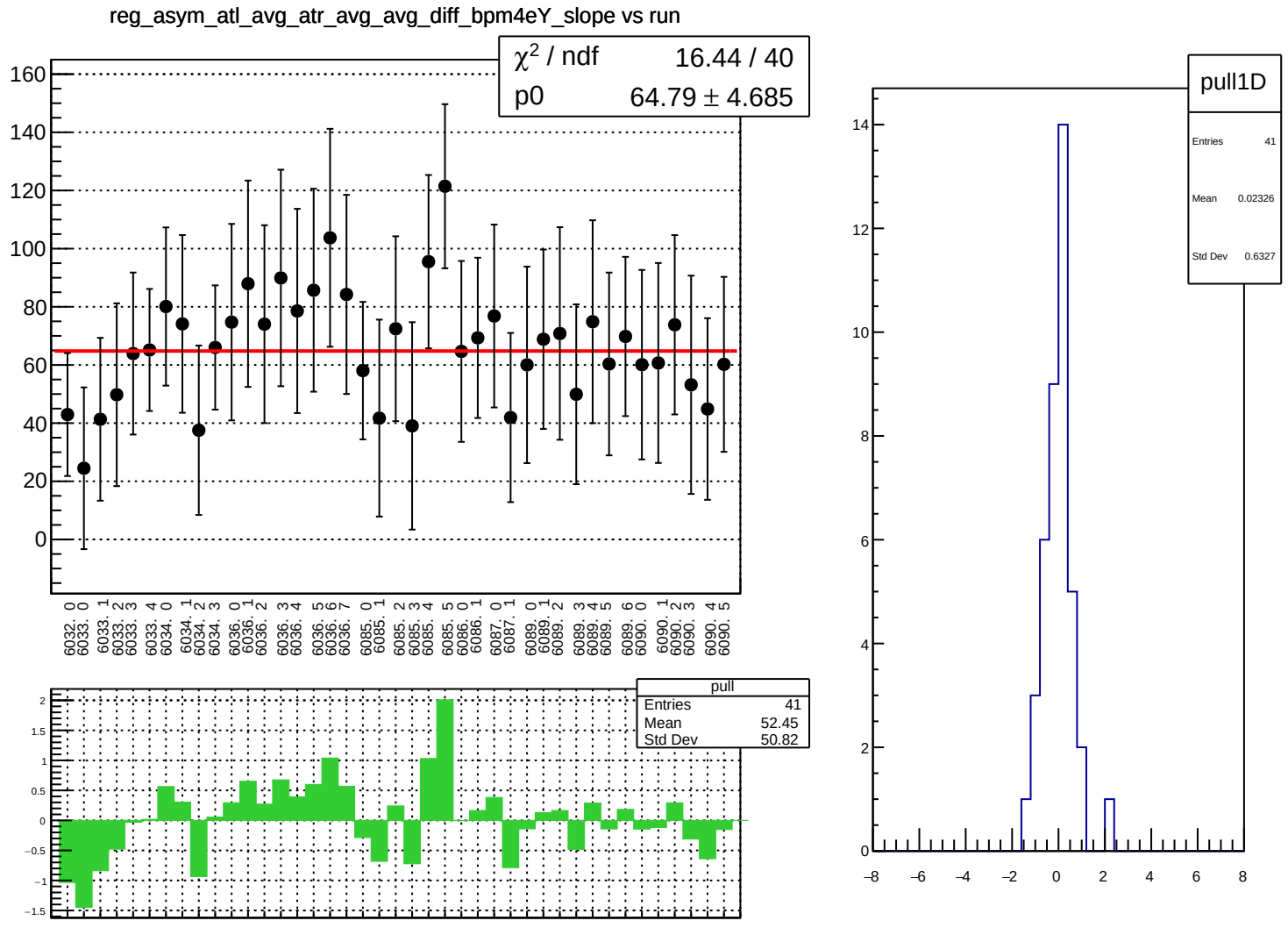

pull1D
Entries 41
Mean −0.1028
Std Dev 0.9729
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

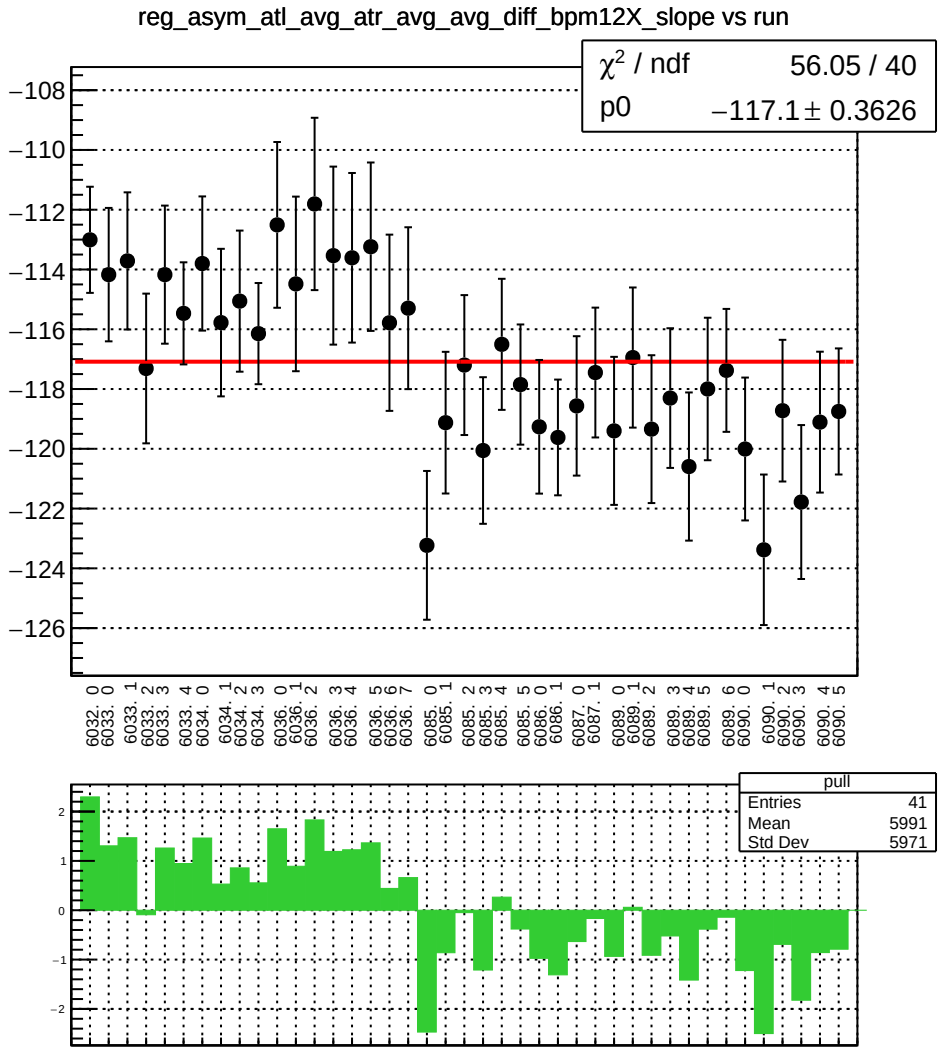

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.59 / 40
p0 −5.356 ± 4.354
pull
Entries 41
Mean 19.46
Std Dev 42.49

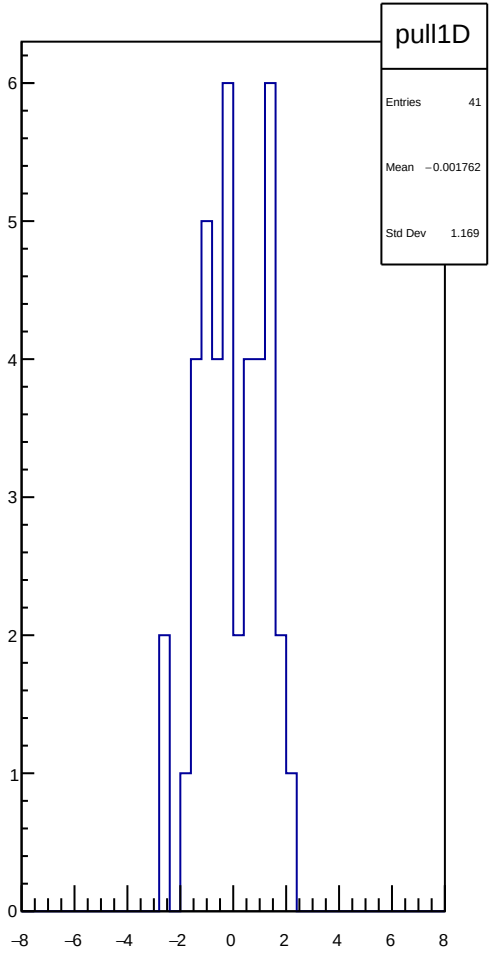

pull1D
Entries 41
Mean −0.01651
Std Dev 0.5756

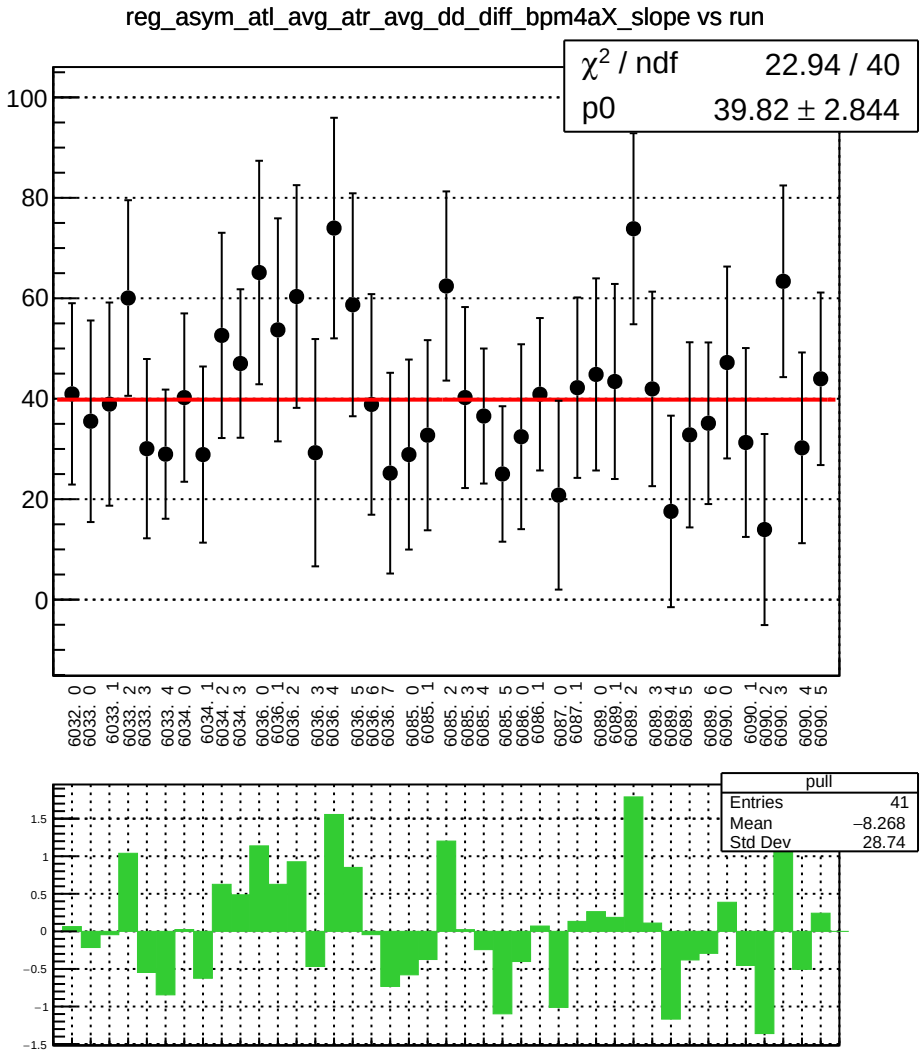

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.18 / 40
p0 331.9 ± 7.941
pull
Entries 41
Mean 41.39
Std Dev 15.73

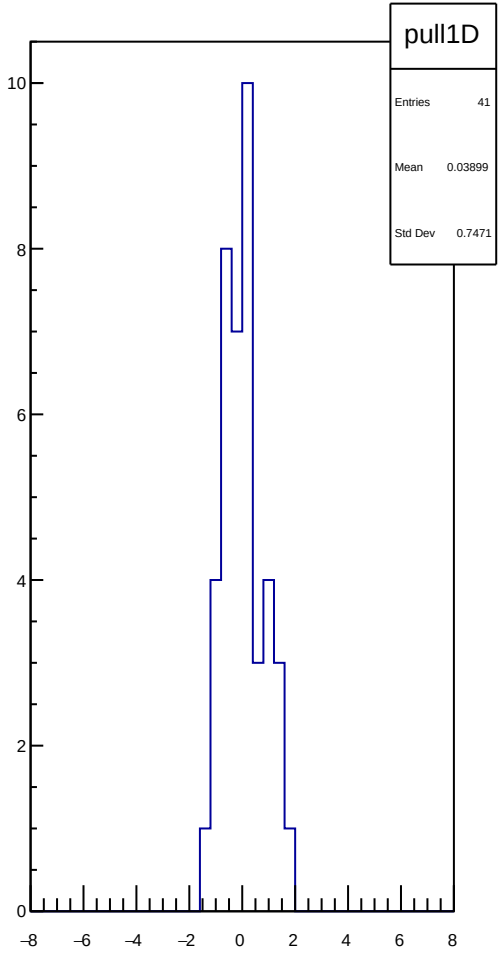

pull1D
Entries 41
Mean 0.09726
Std Dev 0.9343

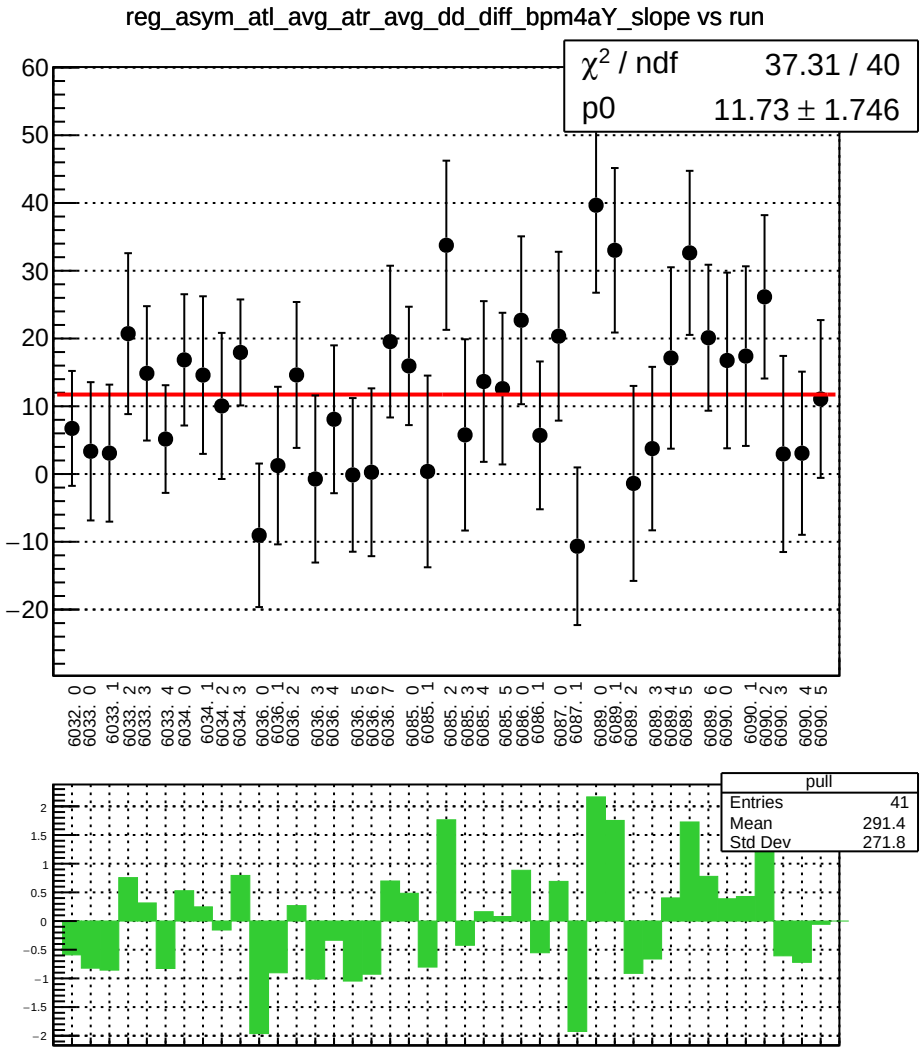

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.44 / 40
p0 64.79 ± 4.685
pull
Entries 41
Mean 52.45
Std Dev 50.82
pull1D
Entries 41
Mean 0.02326
Std Dev 0.6327

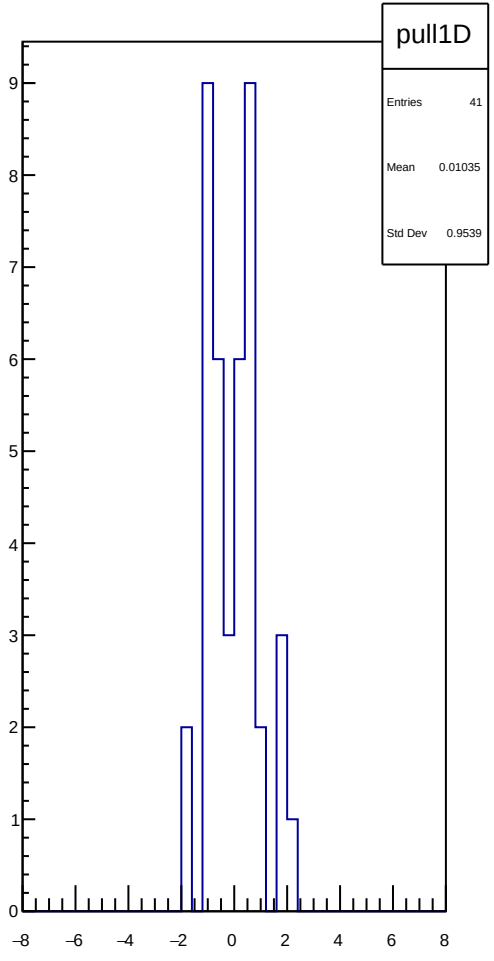

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 56.05 / 40
p0 −117.1 ± 0.3626
−108
−110
−112
−114
−116
−118
−120
−122
−124
−126
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 5991
Std Dev 5971
2
1
0
−1
−2

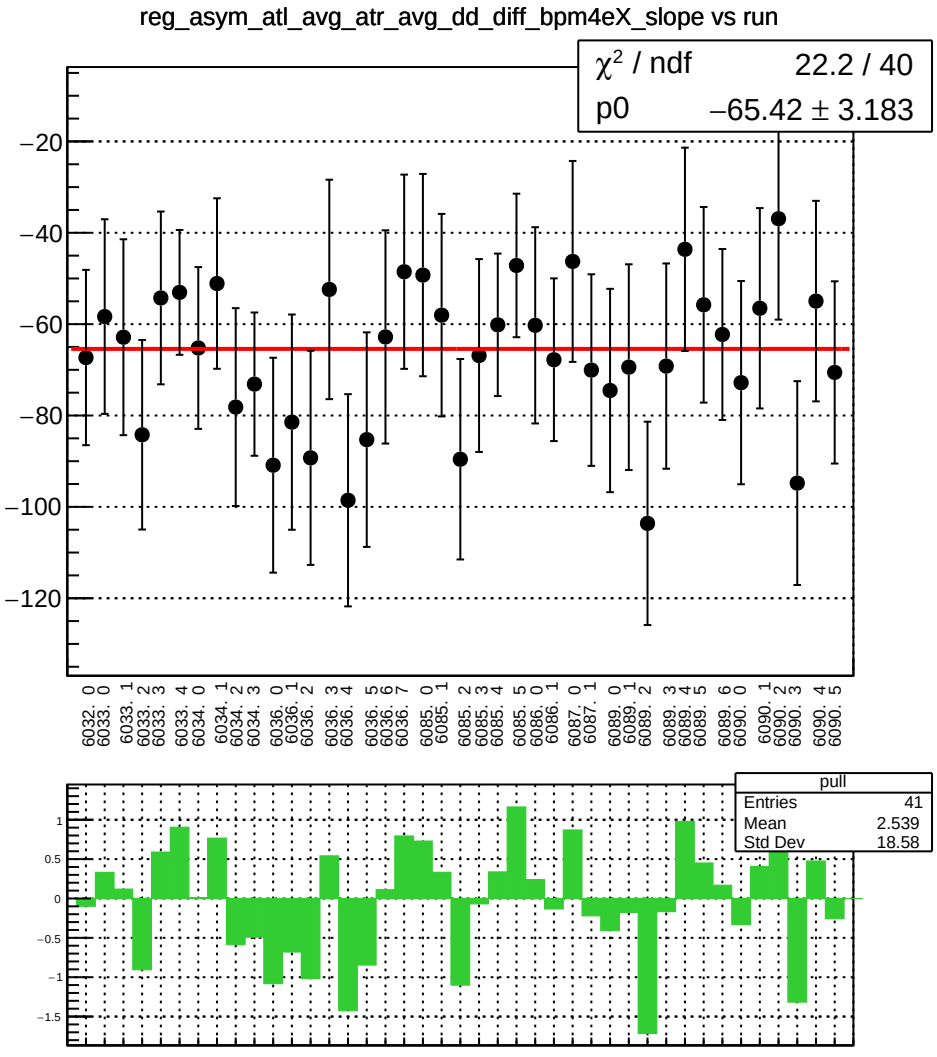

pull1D
Entries 41
Mean −0.001762
Std Dev 1.169
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

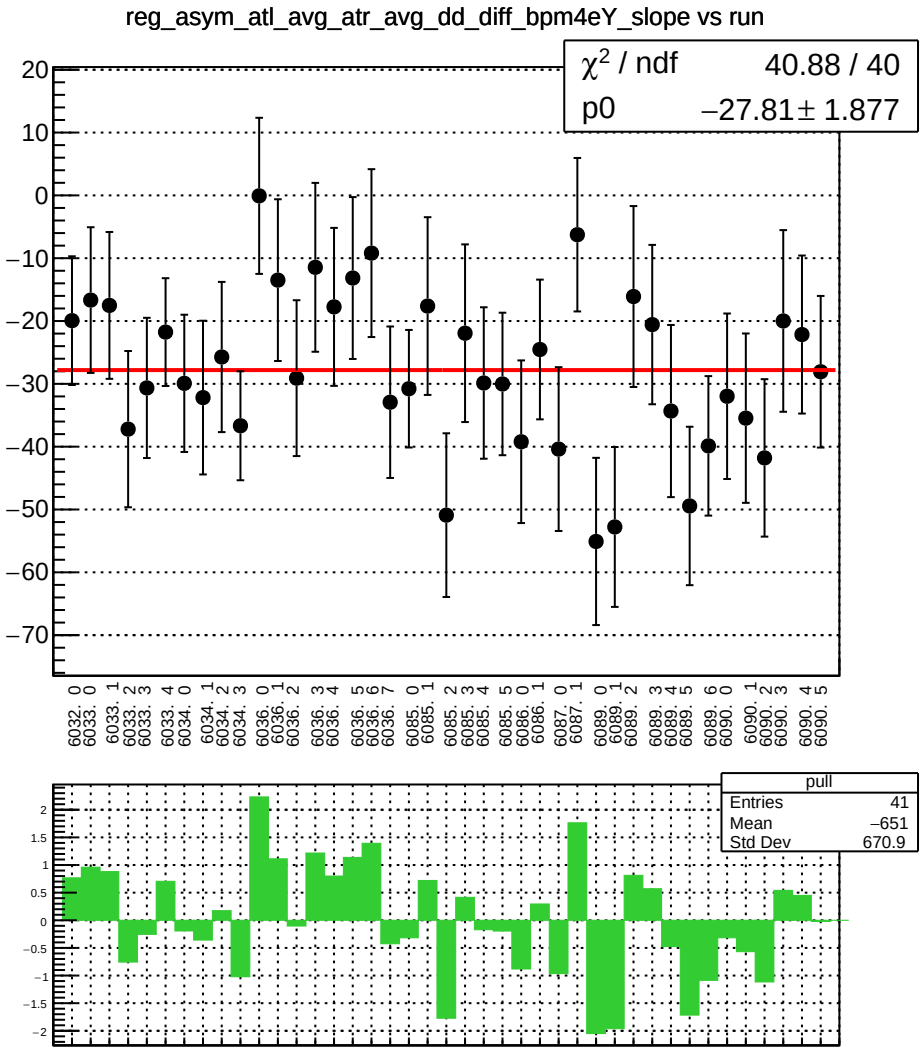

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.94 / 40
p0 39.82 ± 2.844
pull
Entries 41
Mean −8.268
Std Dev 28.74

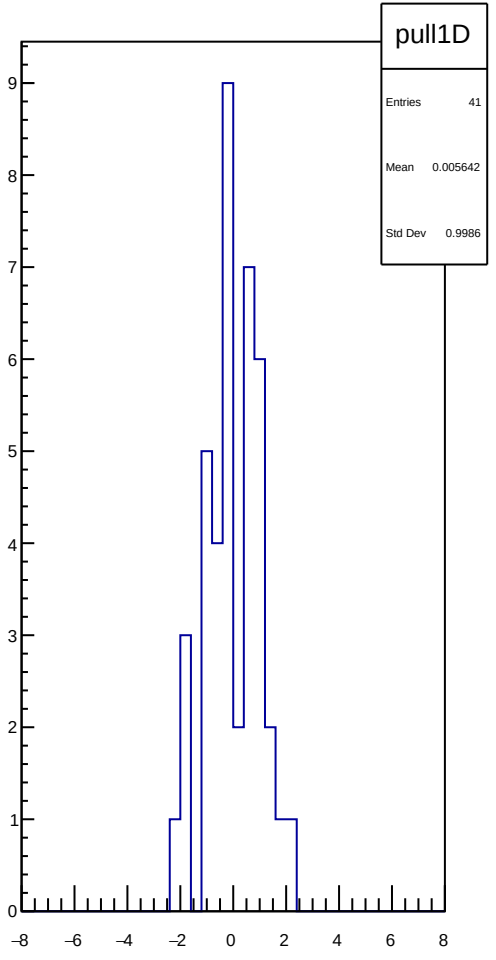

pull1D
Entries 41
Mean 0.03899
Std Dev 0.7471

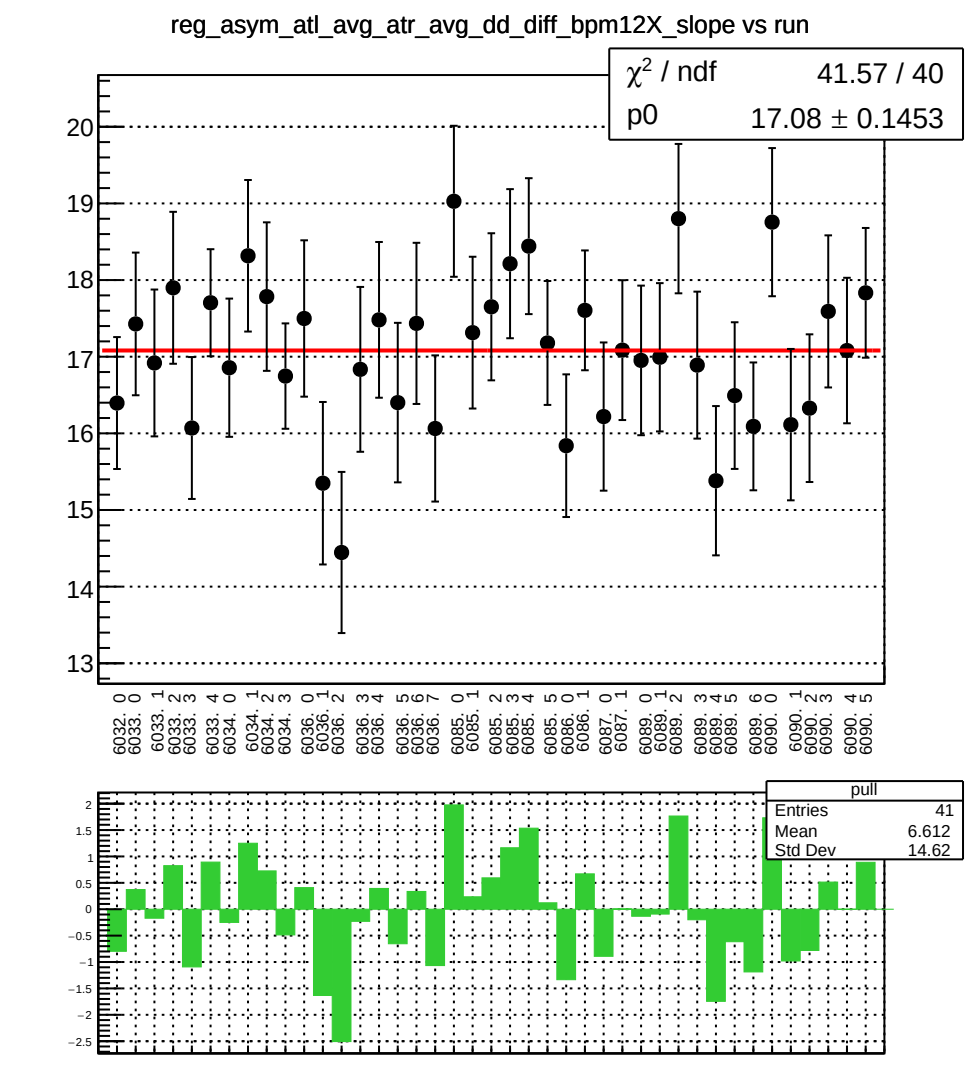

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.31 / 40
p0 11.73 ± 1.746
pull
Entries 41
Mean 291.4
Std Dev 271.8

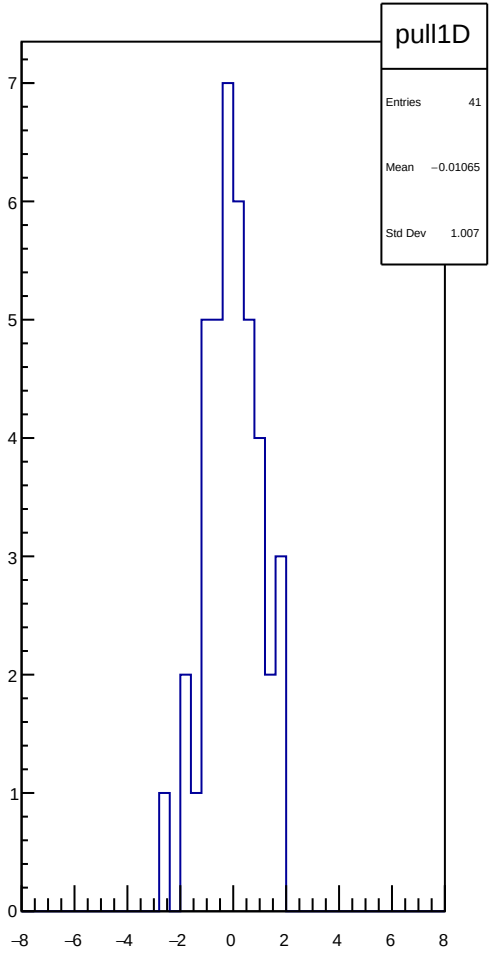

pull1D
Entries 41
Mean 0.01035
Std Dev 0.9539

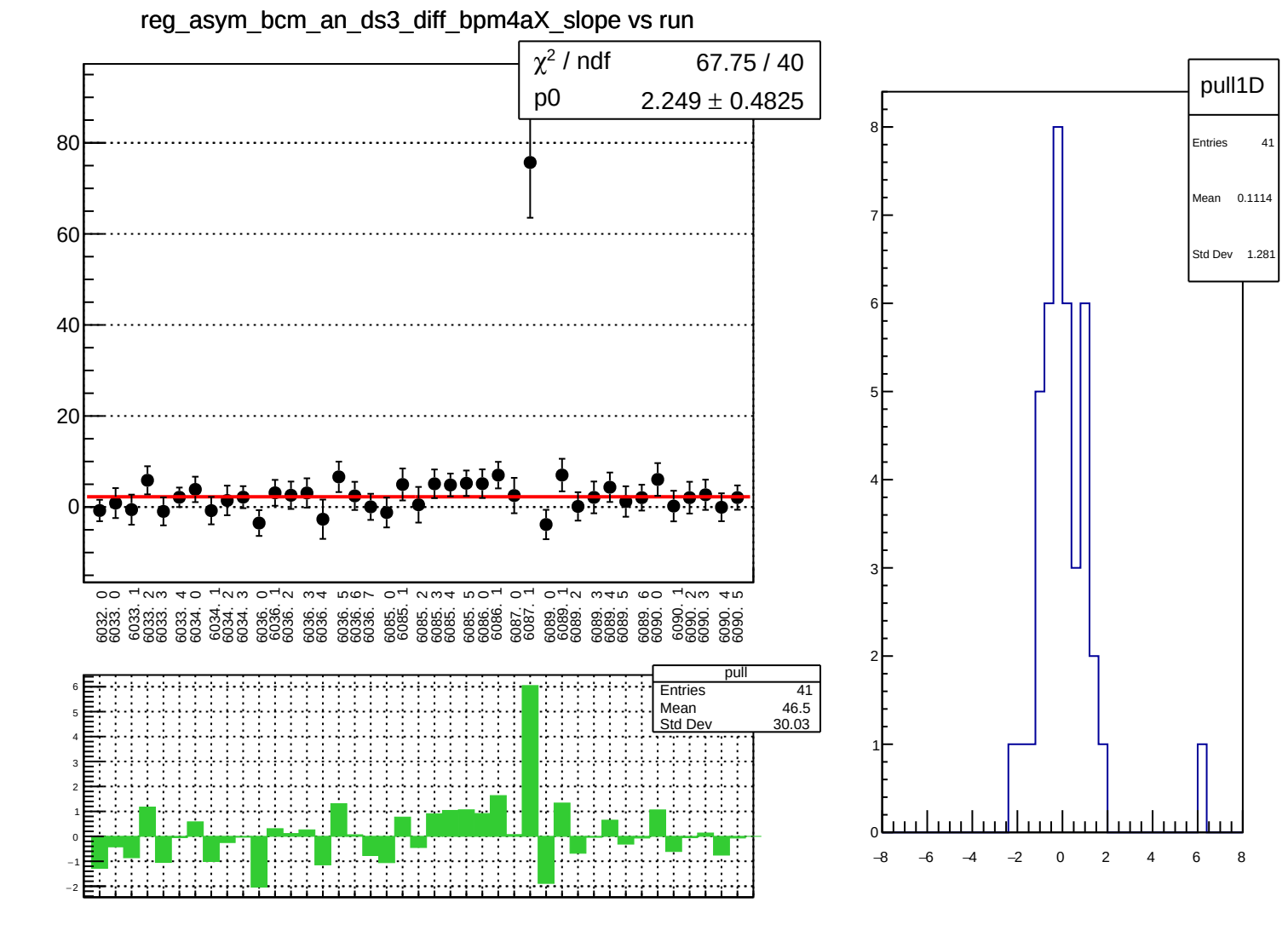

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.2 / 40
p0 −65.42 ± 3.183
pull
Entries 41
Mean 2.539
Std Dev 18.58
pull1D
Entries 41
Mean −0.03461
Std Dev 0.735

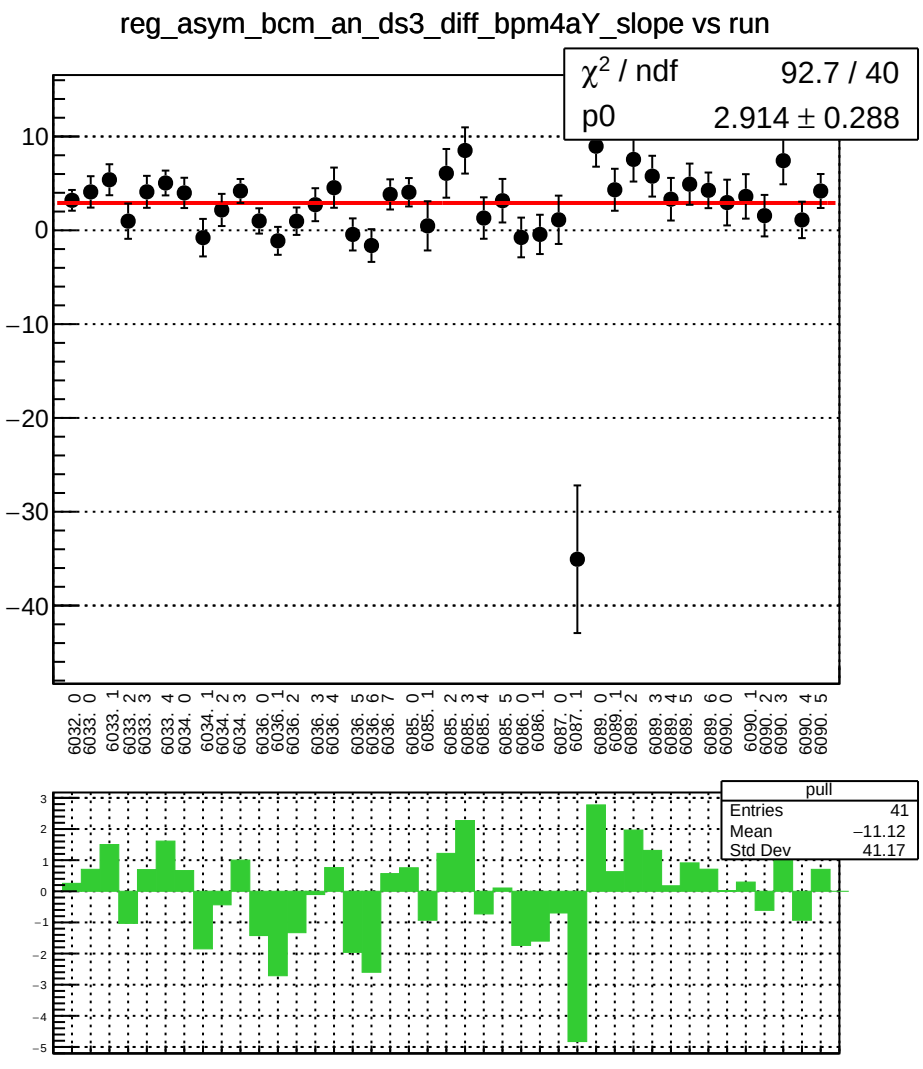

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.88 / 40
p0 −27.81± 1.877
pull
Entries 41
Mean −651
Std Dev 670.9

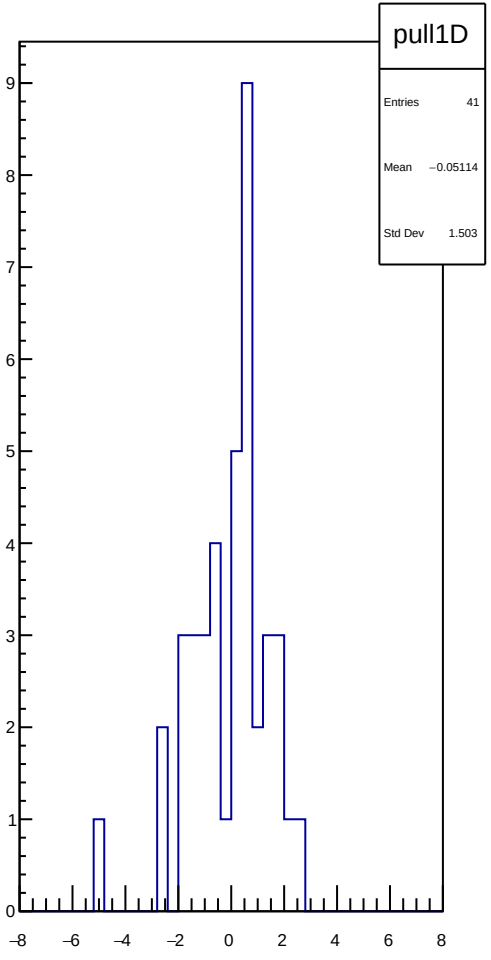

pull1D
Entries 41
Mean 0.005642
Std Dev 0.9986

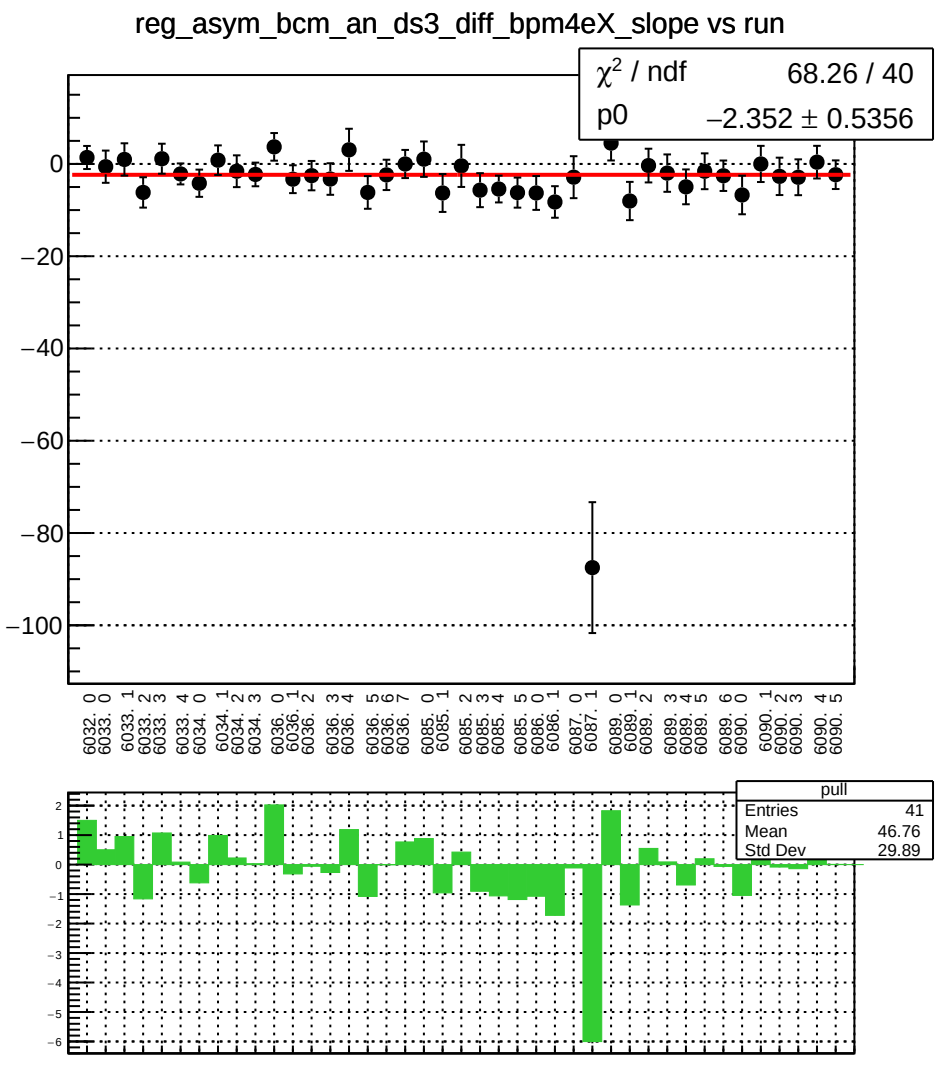

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 41.57 / 40
p0 17.08 ± 0.1453
pull
Entries 41
Mean 6.612
Std Dev 14.62

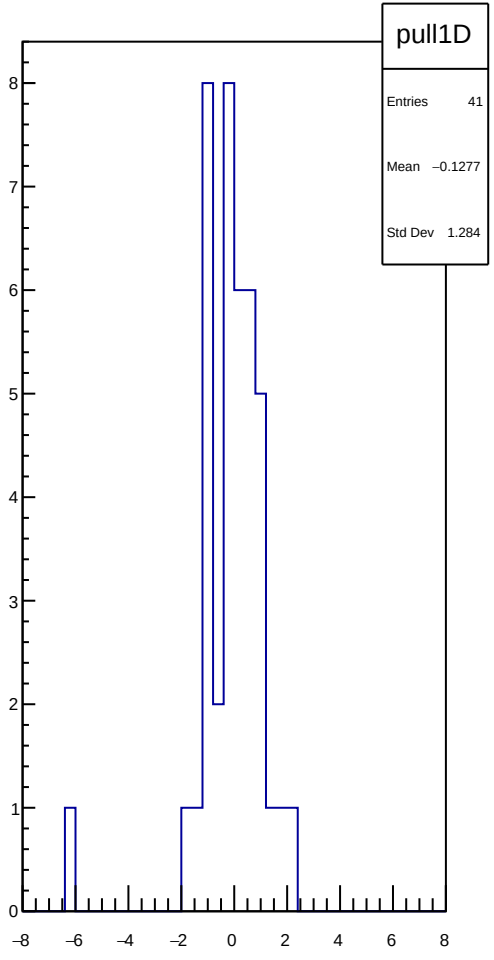

pull1D
Entries 41
Mean −0.01065
Std Dev 1.007

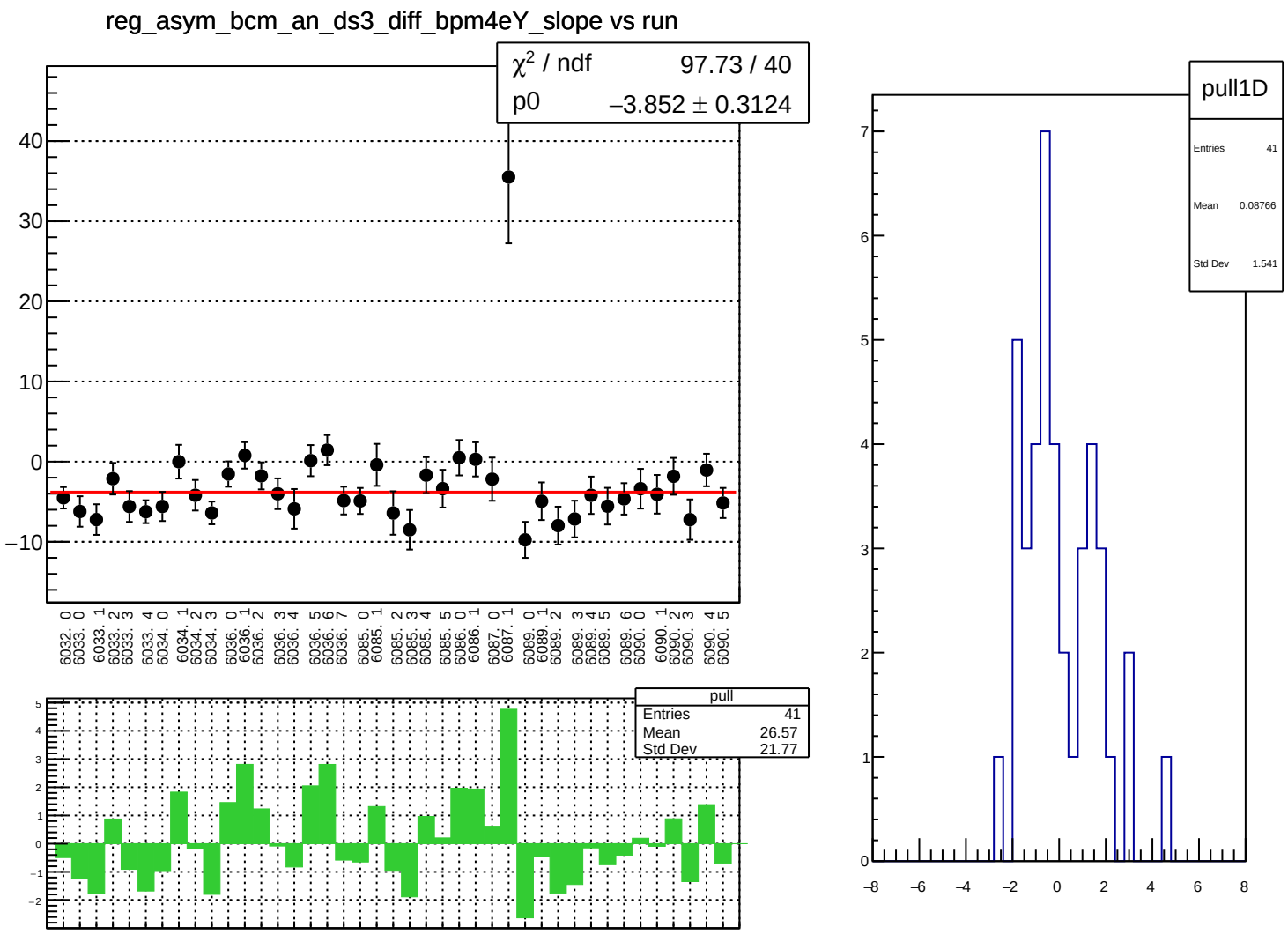

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 67.75 / 40
p0 2.249 ± 0.4825
pull
Entries 41
Mean 46.5
Std Dev 30.03
pull1D
Entries 41
Mean 0.1114
Std Dev 1.281

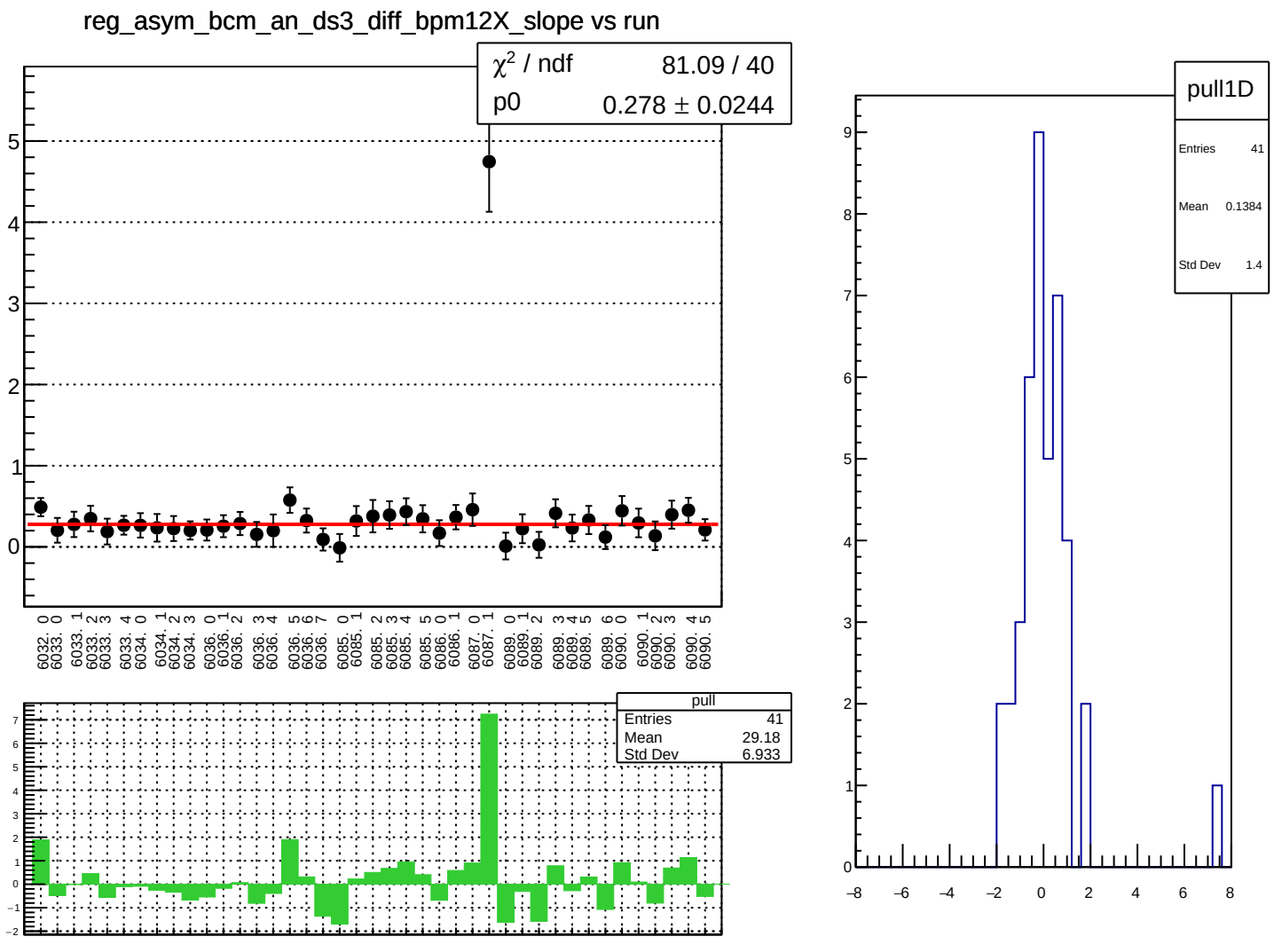

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 92.7 / 40
p0 2.914 ± 0.288
10
0
−10
−20
−30
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −11.12
Std Dev 41.17
3
2
1
0
−1
−2
−3
−4
−5

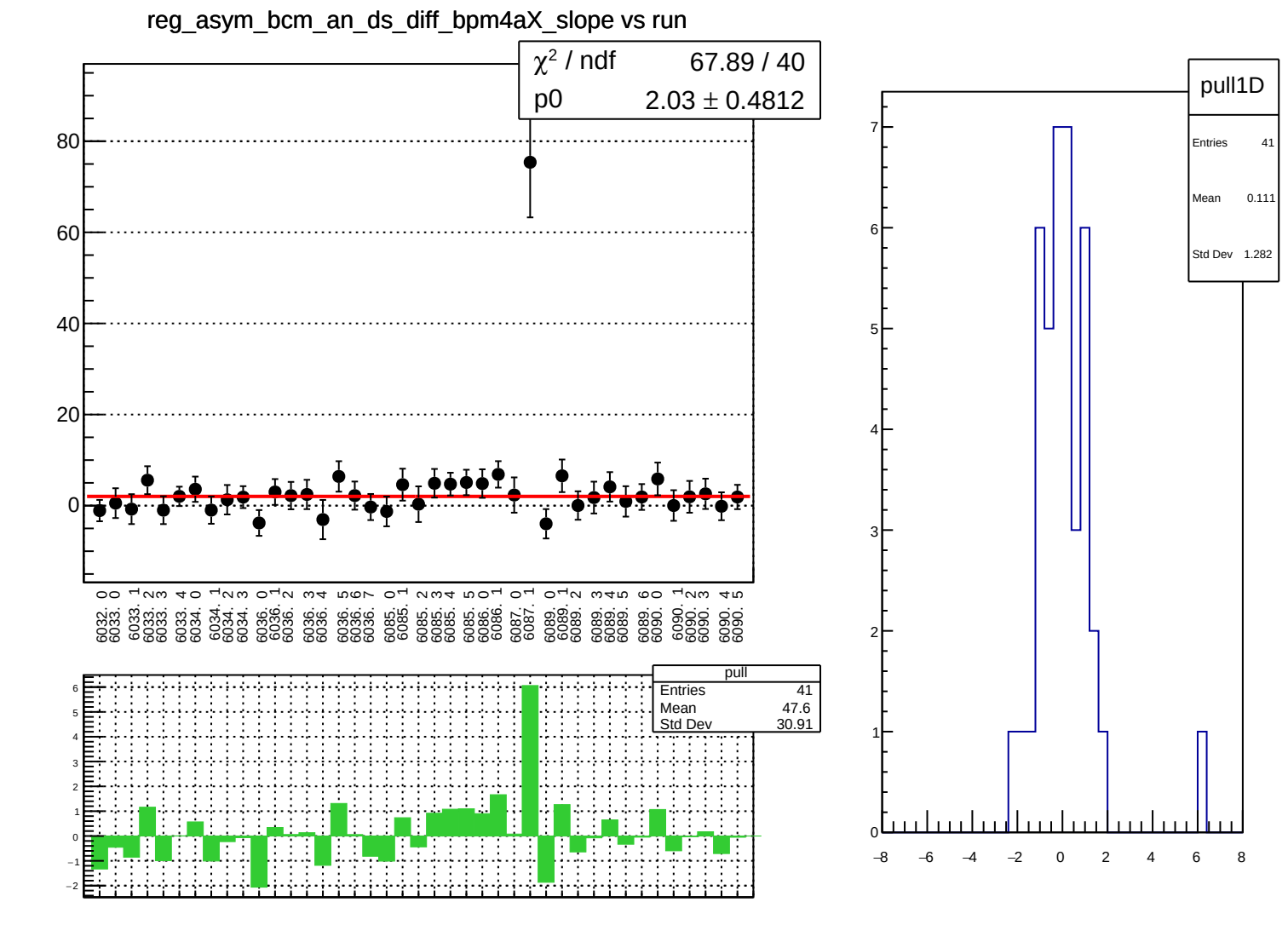

pull1D
Entries 41
Mean −0.05114
Std Dev 1.503
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

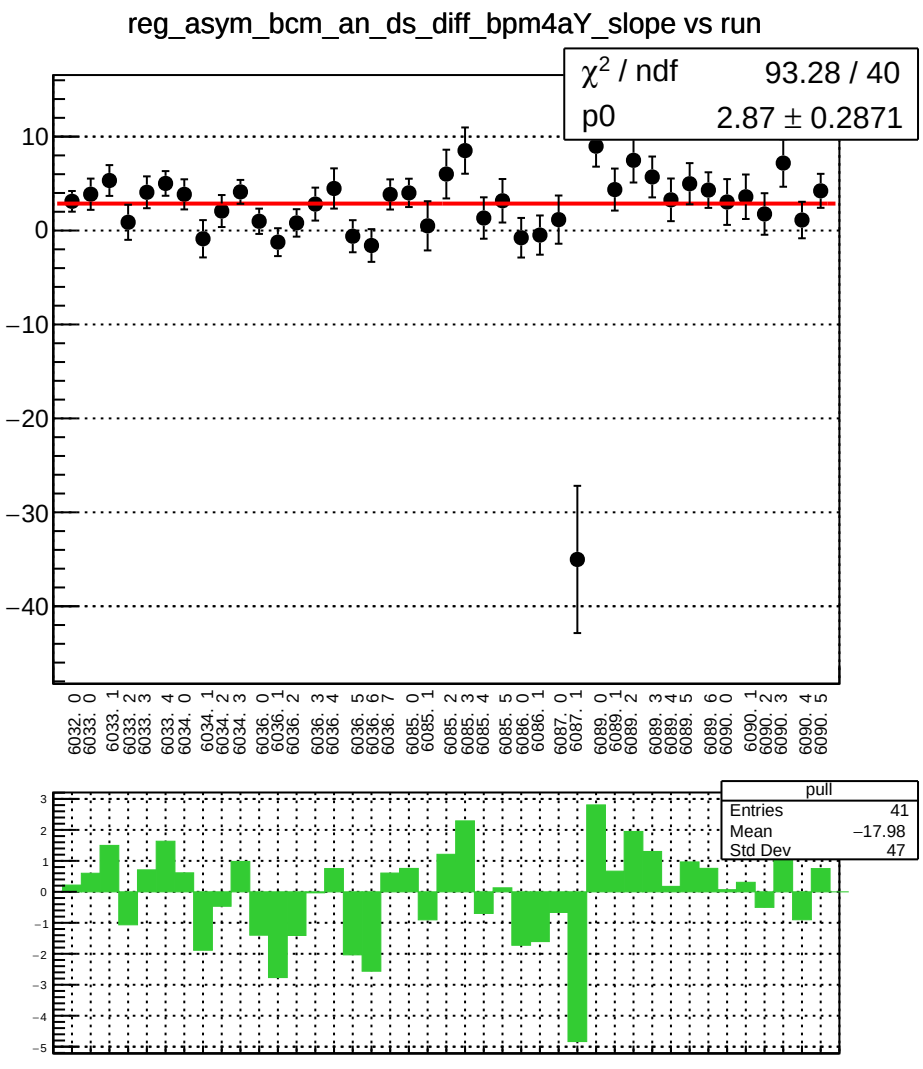

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 68.26 / 40
p0 −2.352 ± 0.5356
pull
Entries 41
Mean 46.76
Std Dev 29.89

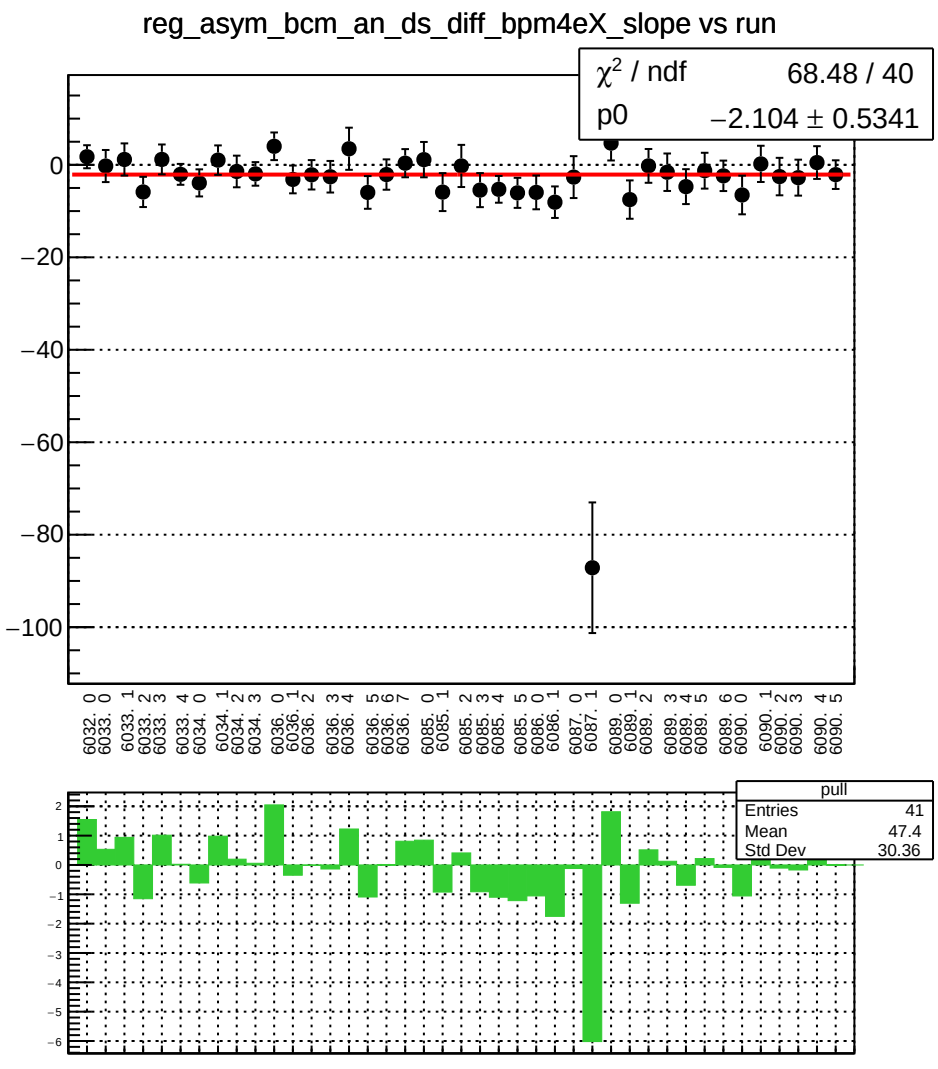

pull1D
Entries 41
Mean −0.1277
Std Dev 1.284

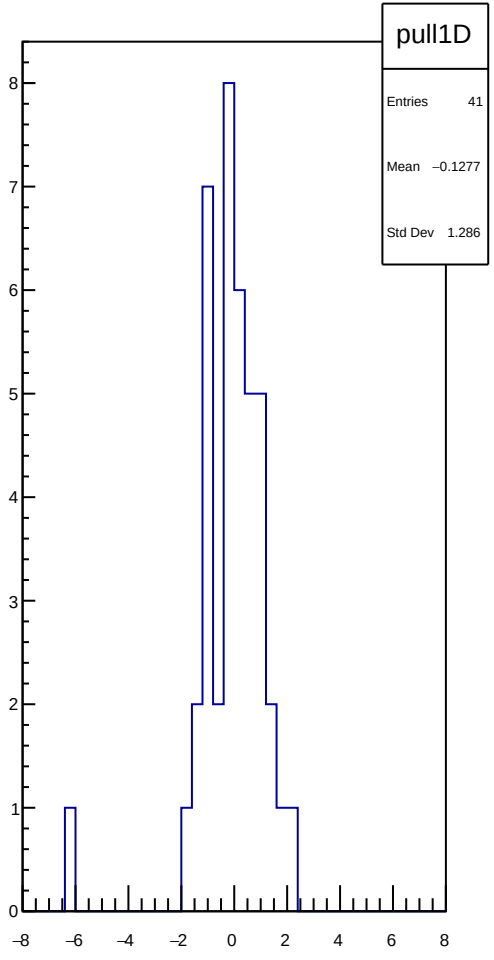

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 97.73 / 40
p0 −3.852 ± 0.3124
pull
Entries 41
Mean 26.57
Std Dev 21.77
pull1D
Entries 41
Mean 0.08766
Std Dev 1.541

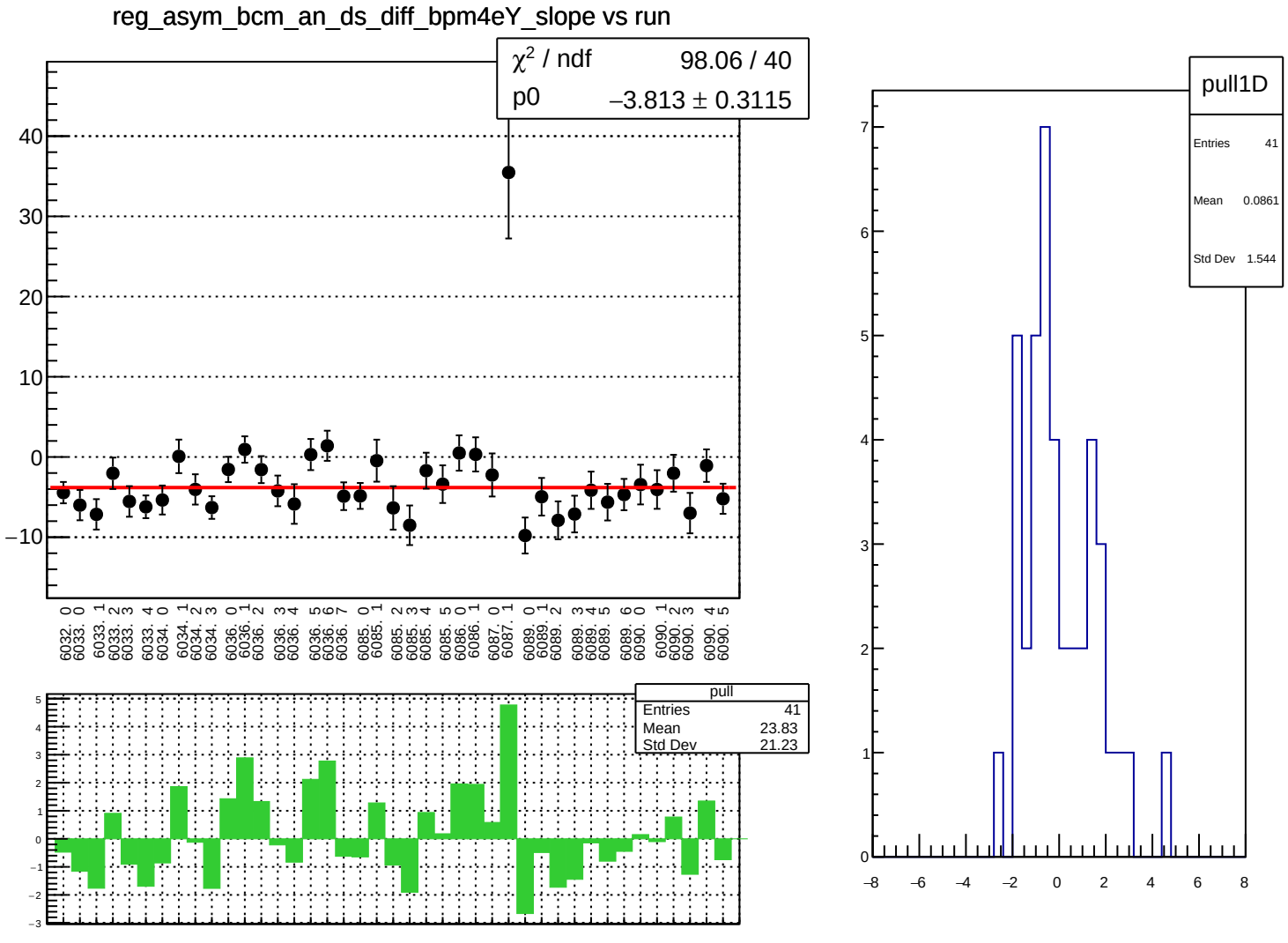

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 81.09 / 40
p0 0.278 ± 0.0244
pull
Entries 41
Mean 29.18
Std Dev 6.933
pull1D
Entries 41
Mean 0.1384
Std Dev 1.4

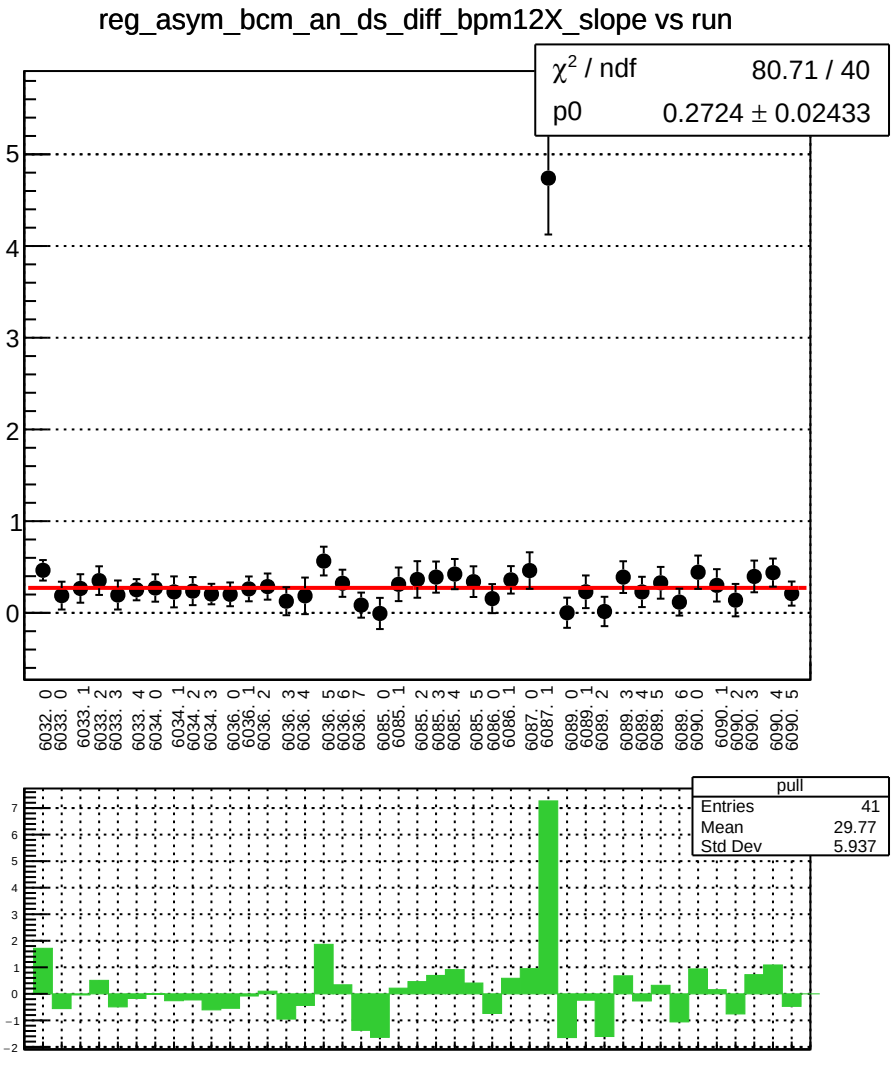

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 67.89 / 40
p0 2.03 ± 0.4812
pull
Entries 41
Mean 47.6
Std Dev 30.91
pull1D
Entries 41
Mean 0.111
Std Dev 1.282

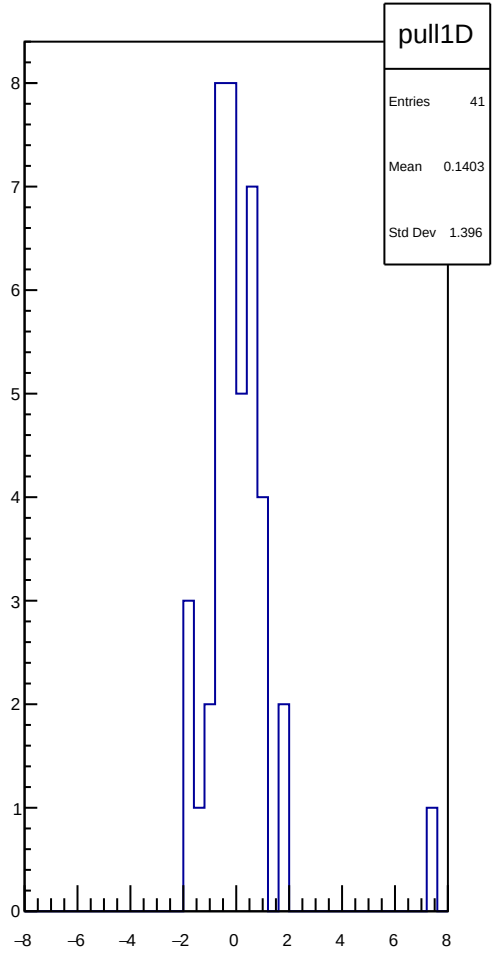

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 93.28 / 40
p0 2.87 ± 0.2871
10
0
−10
−20
−30
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −17.98
Std Dev 47
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 41
Mean −0.04838
Std Dev 1.508
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

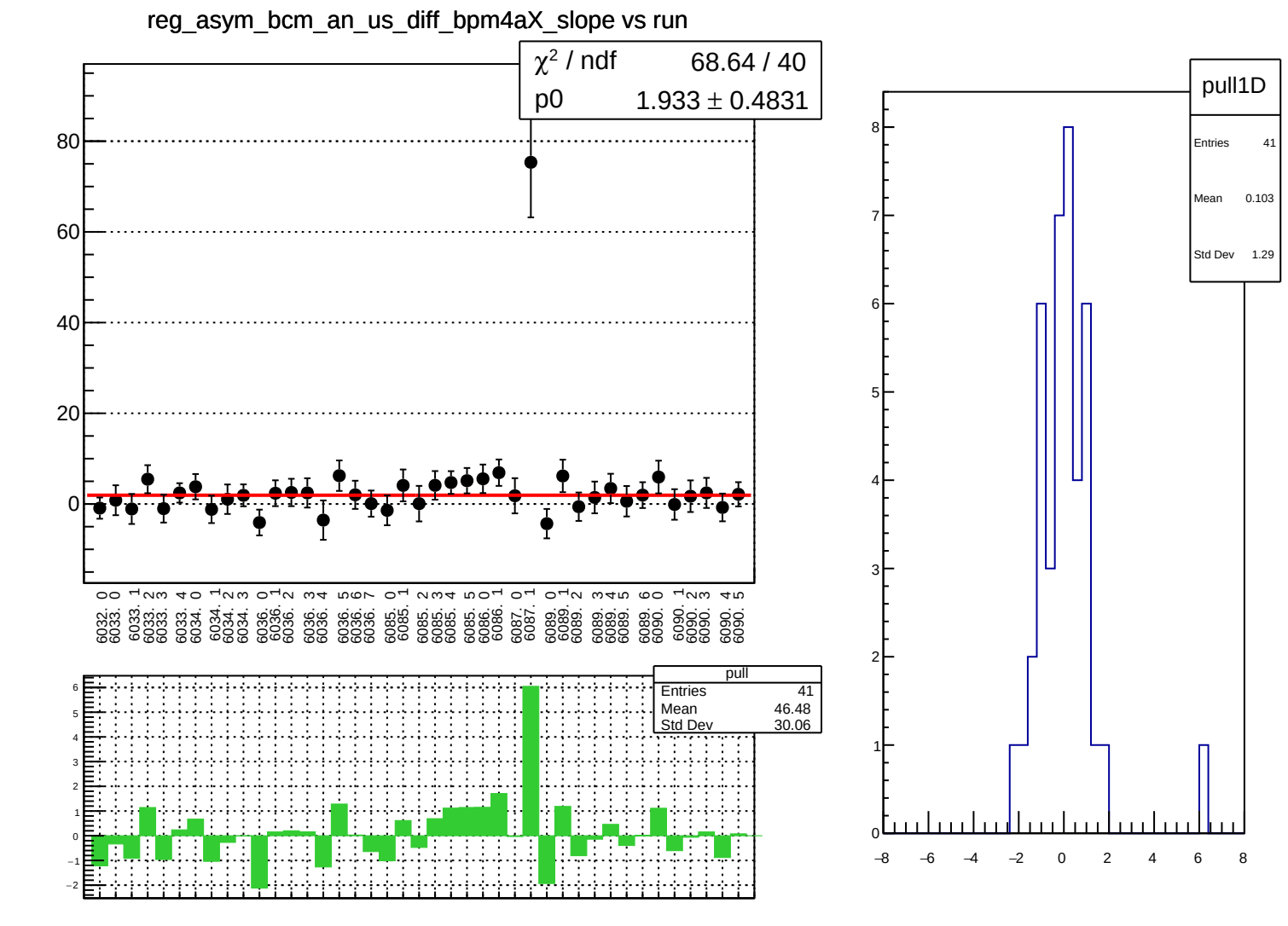

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 68.48 / 40
p0 −2.104 ± 0.5341
pull
Entries 41
Mean 47.4
Std Dev 30.36

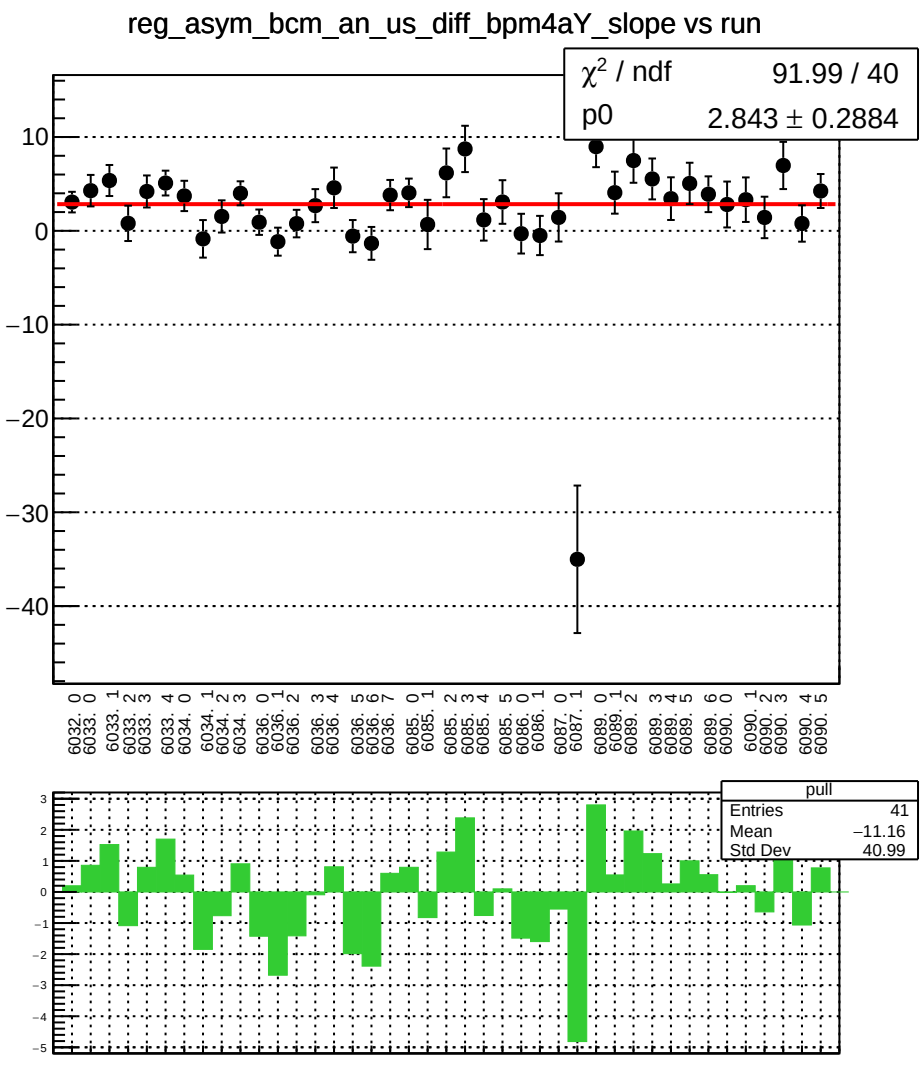

pull1D
Entries 41
Mean −0.1277
Std Dev 1.286

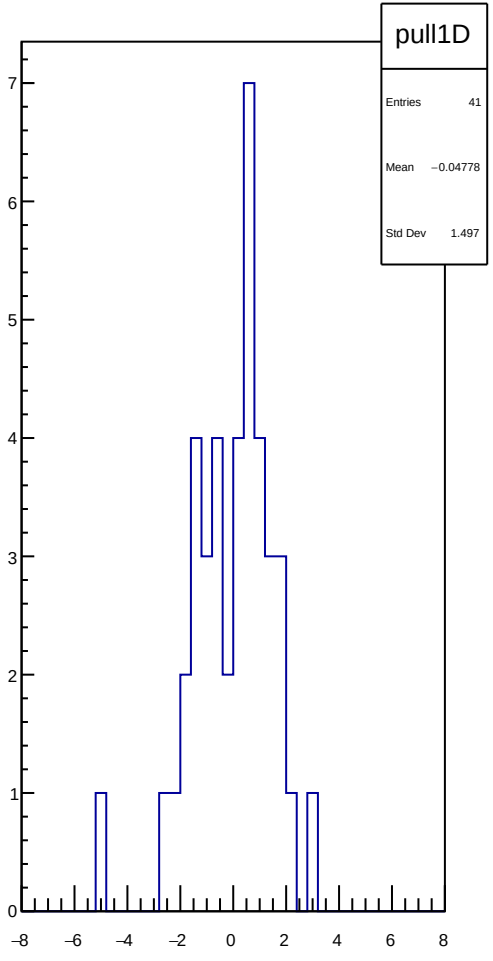

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 98.06 / 40
p0 −3.813 ± 0.3115
pull
Entries 41
Mean 23.83
Std Dev 21.23
pull1D
Entries 41
Mean 0.0861
Std Dev 1.544

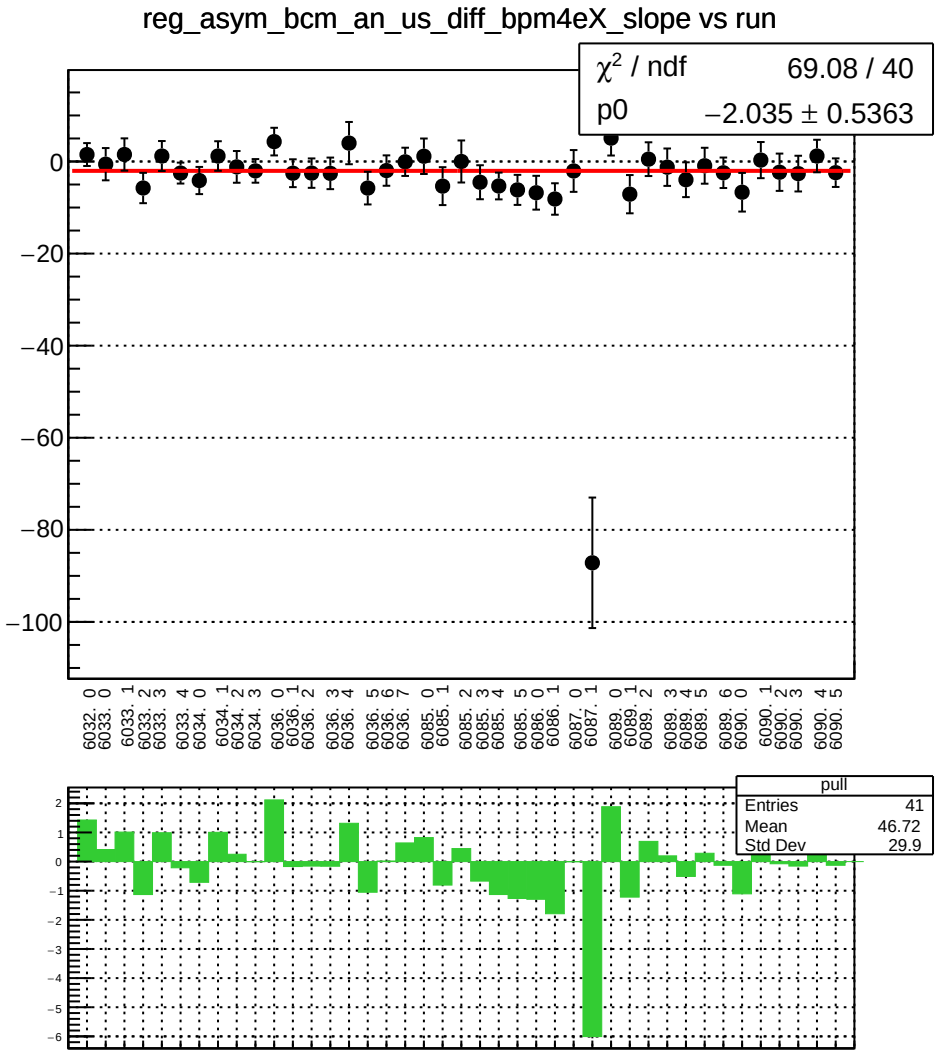

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 80.71 / 40
p0 0.2724 ± 0.02433
pull
Entries 41
Mean 29.77
Std Dev 5.937

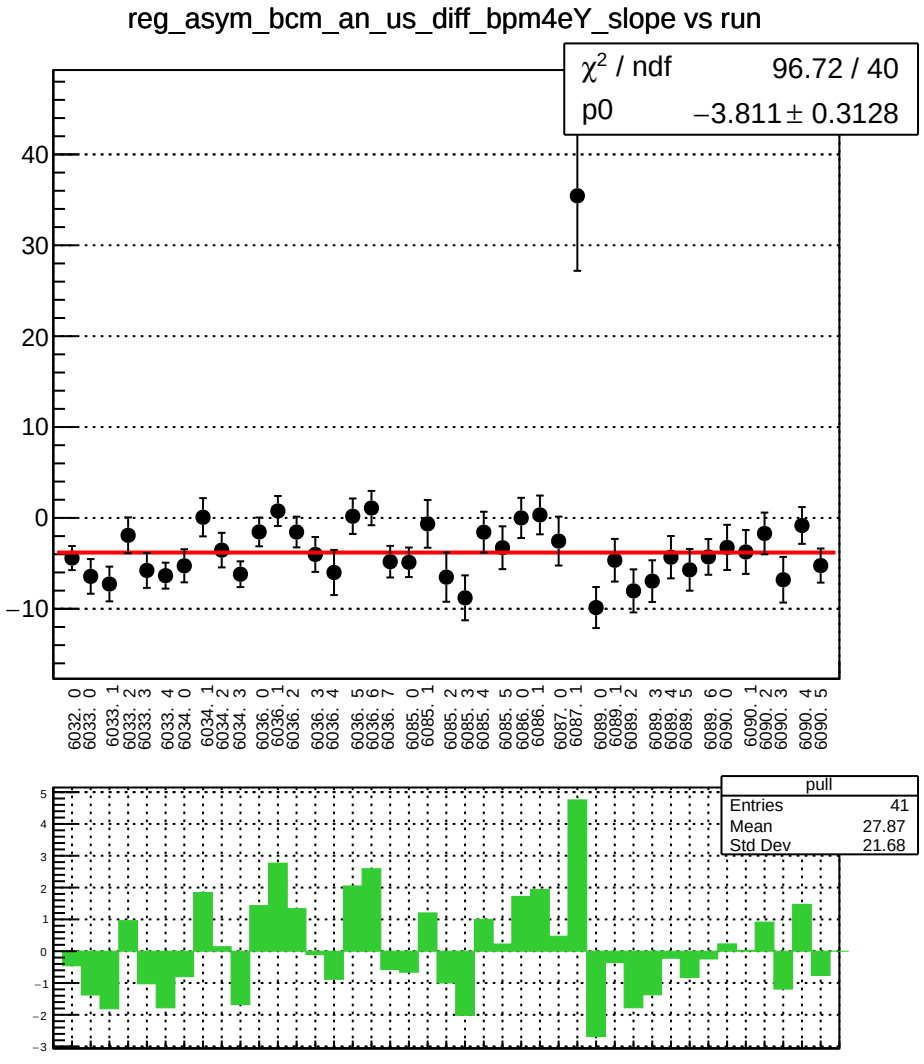

pull1D
Entries 41
Mean 0.1403
Std Dev 1.396

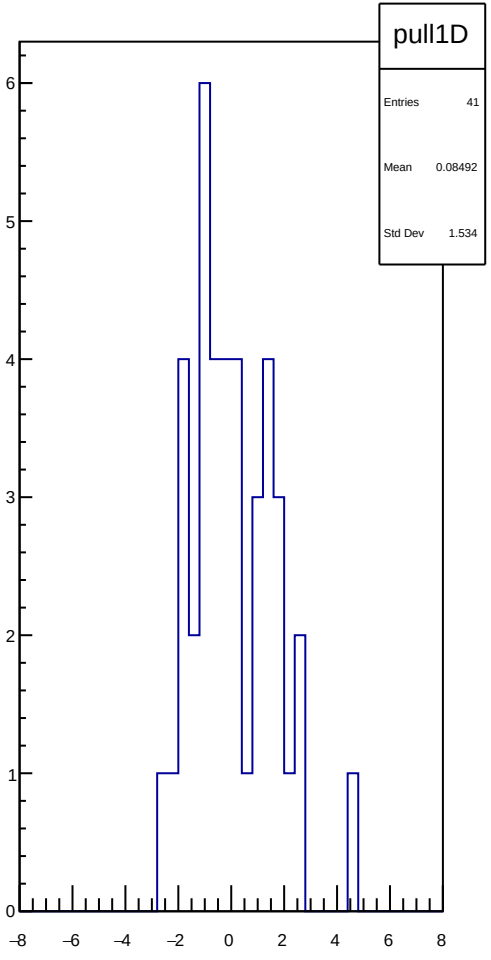

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 68.64 / 40
p0 1.933 ± 0.4831
80
60
40
20
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 46.48
Std Dev 30.06
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.103
Std Dev 1.29
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

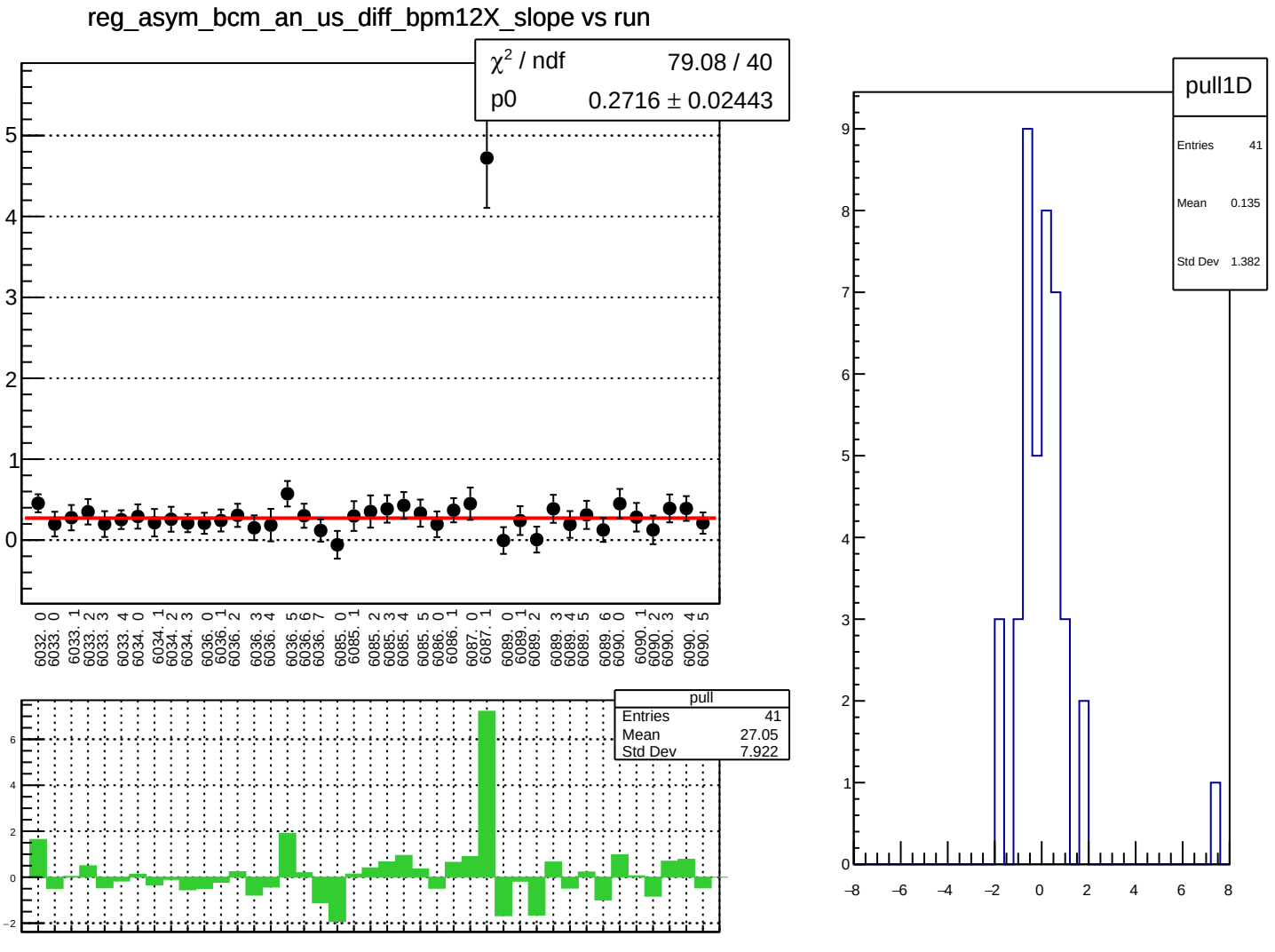

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 91.99 / 40
p0 2.843 ± 0.2884
pull
Entries 41
Mean −11.16
Std Dev 40.99

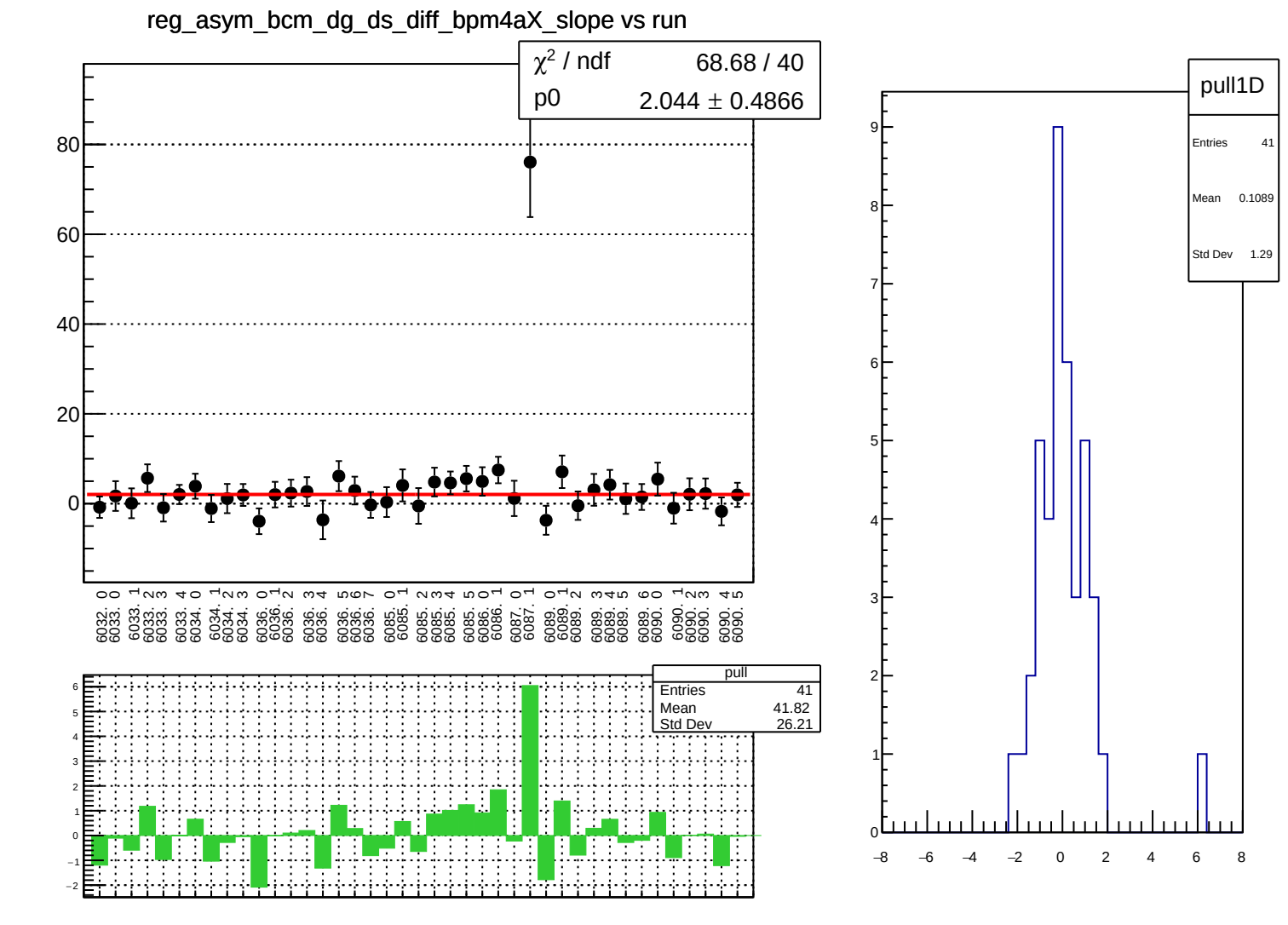

pull1D
Entries 41
Mean −0.04778
Std Dev 1.497

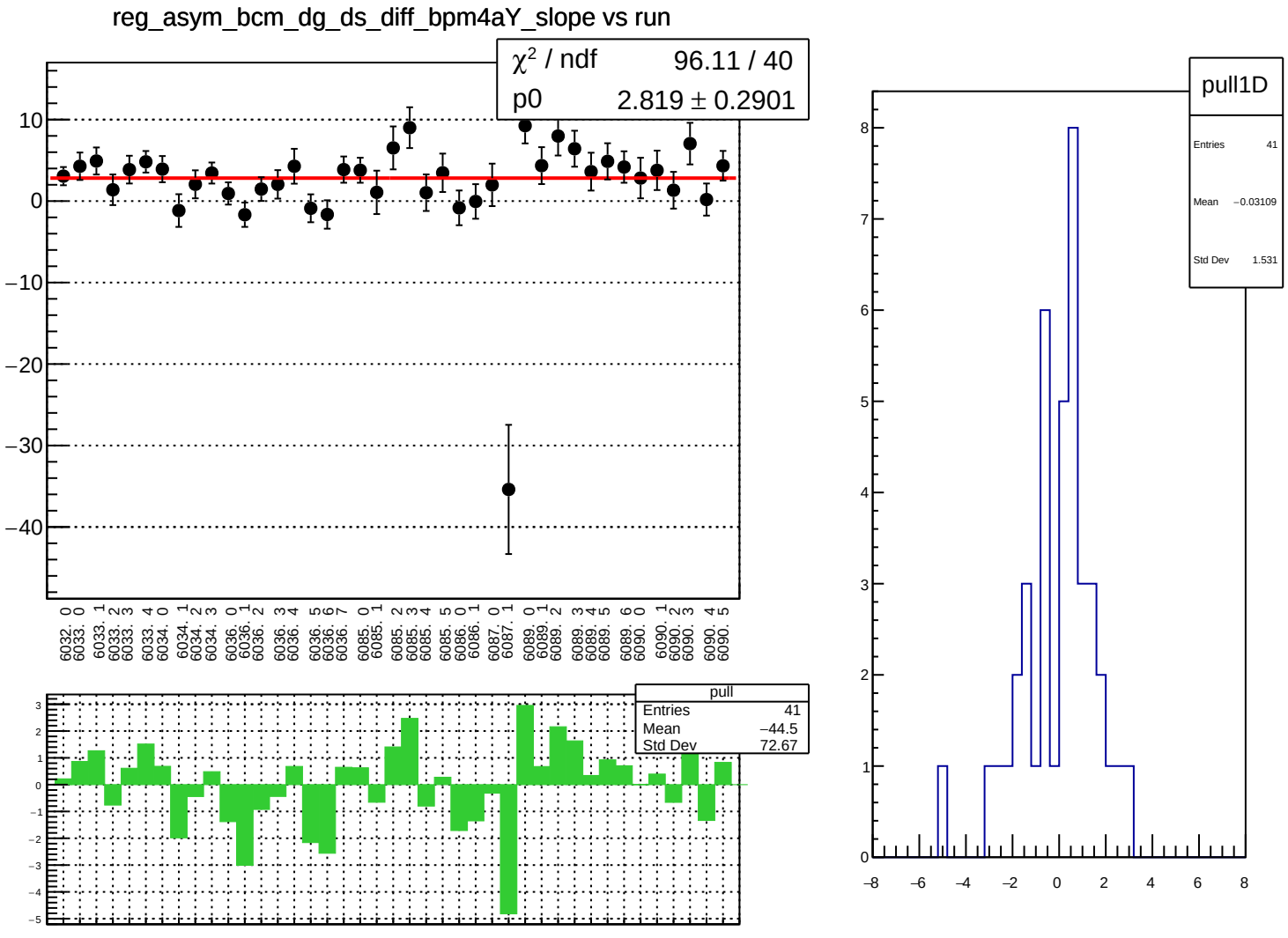

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 69.08 / 40
p0 −2.035 ± 0.5363
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 46.72
Std Dev 29.9
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 41
Mean −0.1182
Std Dev 1.293
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

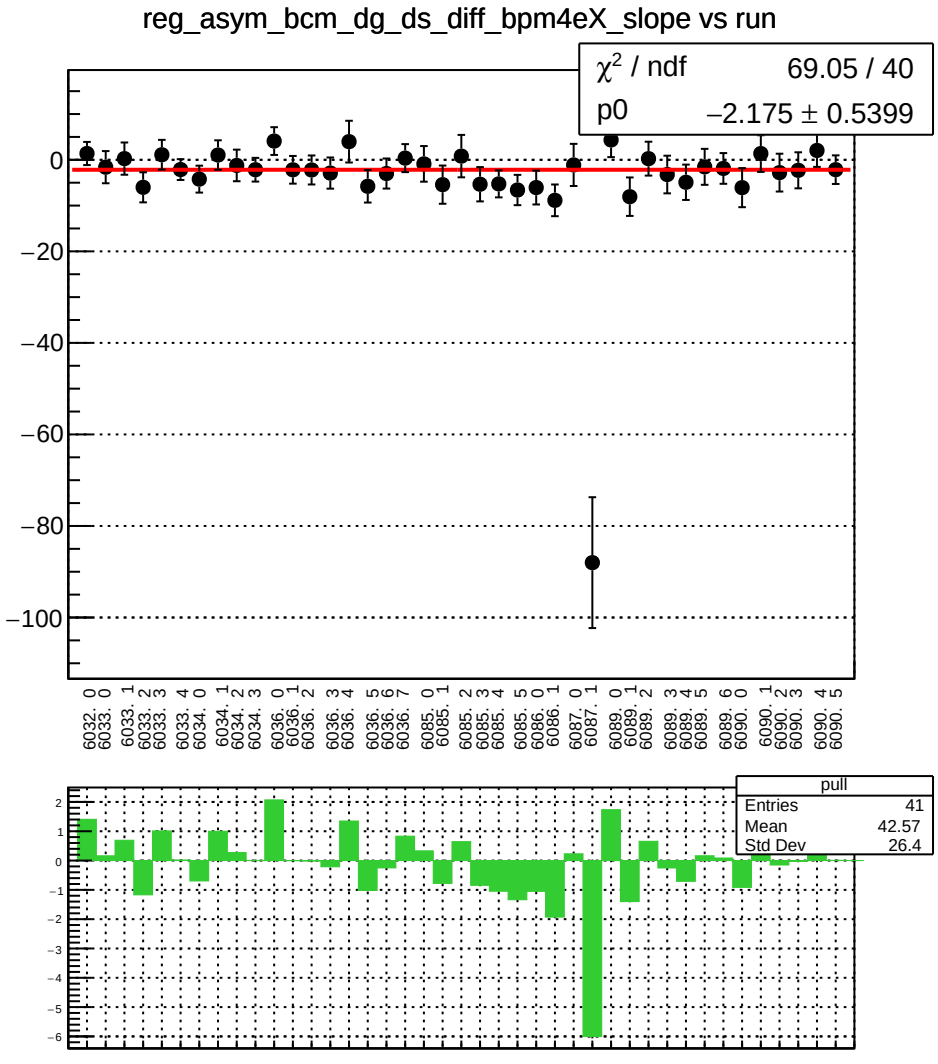

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 96.72 / 40
p0 −3.811 ± 0.3128
pull
Entries 41
Mean 27.87
Std Dev 21.68

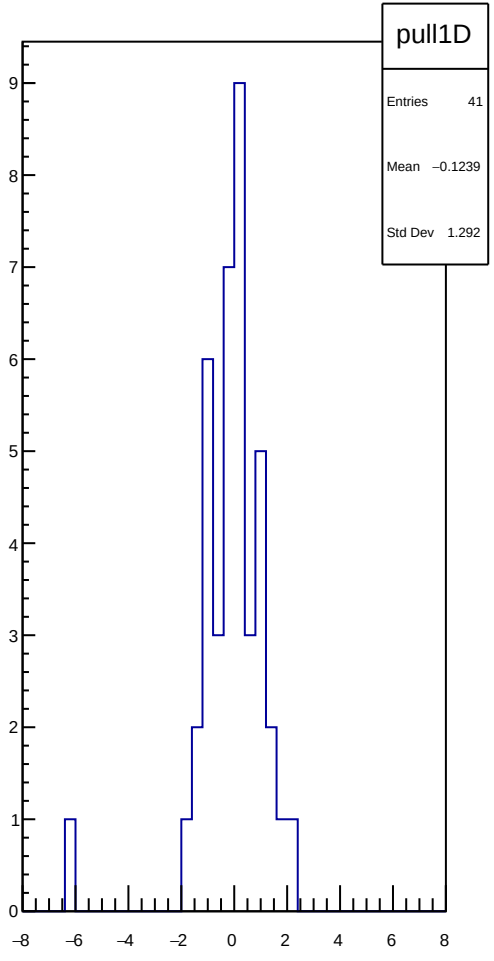

pull1D
Entries 41
Mean 0.08492
Std Dev 1.534

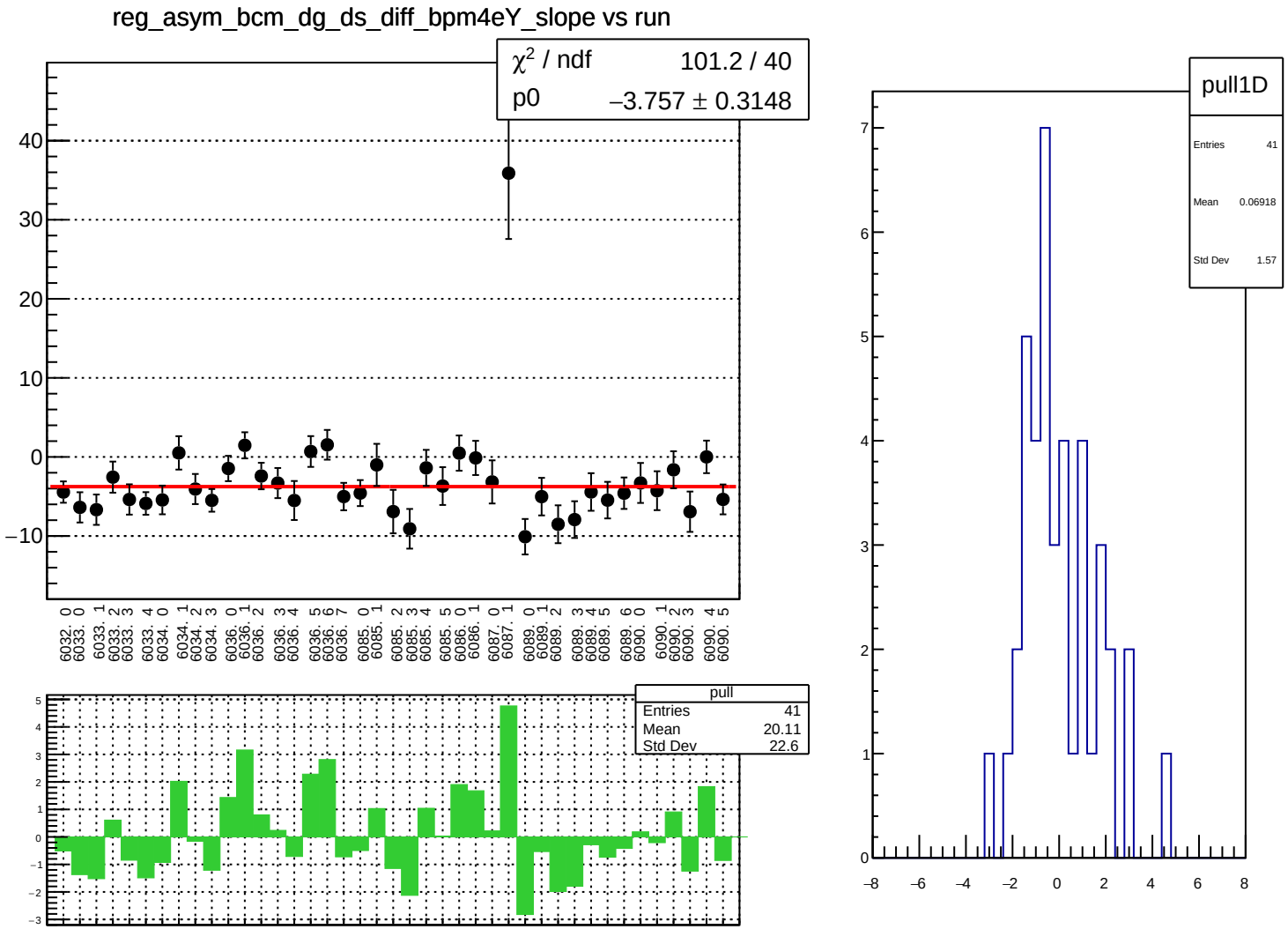

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 79.08 / 40
p0 0.2716 ± 0.02443
pull
Entries 41
Mean 27.05
Std Dev 7.922
pull1D
Entries 41
Mean 0.135
Std Dev 1.382

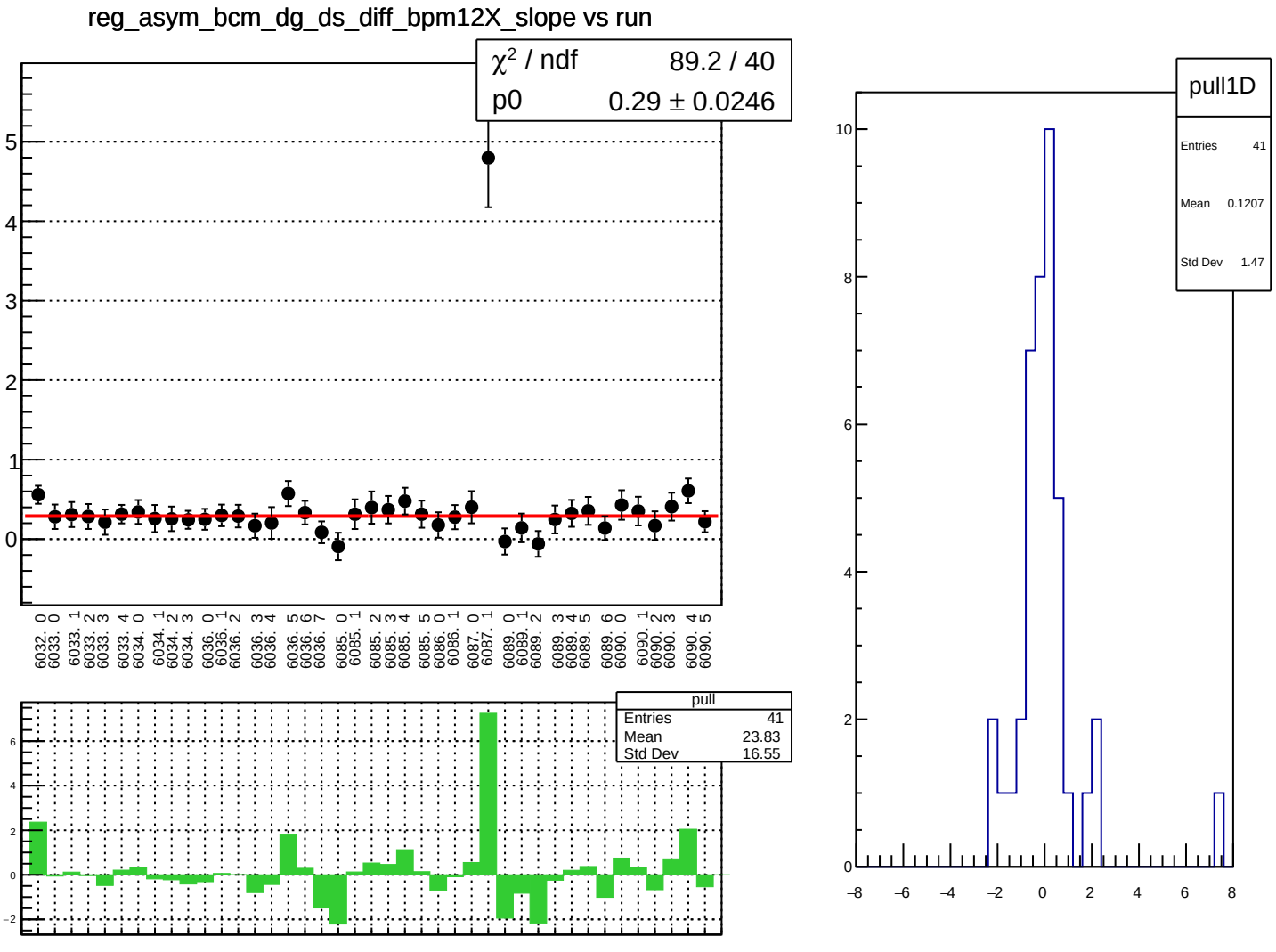

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 68.68 / 40
p0 2.044 ± 0.4866
pull
Entries 41
Mean 41.82
Std Dev 26.21
pull1D
Entries 41
Mean 0.1089
Std Dev 1.29

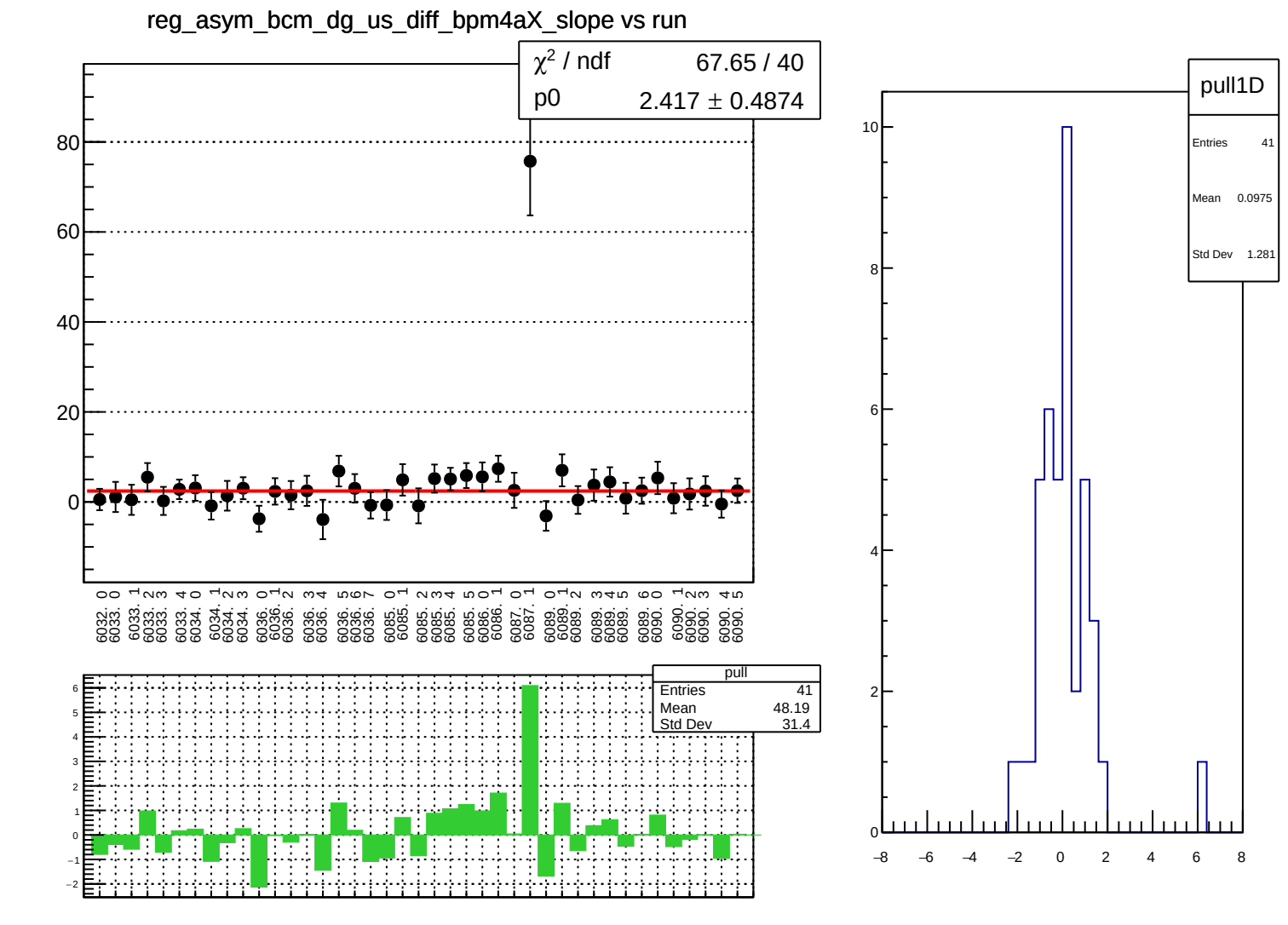

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 96.11 / 40
p0 2.819 ± 0.2901
10
0
−10
−20
−30
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −44.5
Std Dev 72.67
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 41
Mean −0.03109
Std Dev 1.531
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

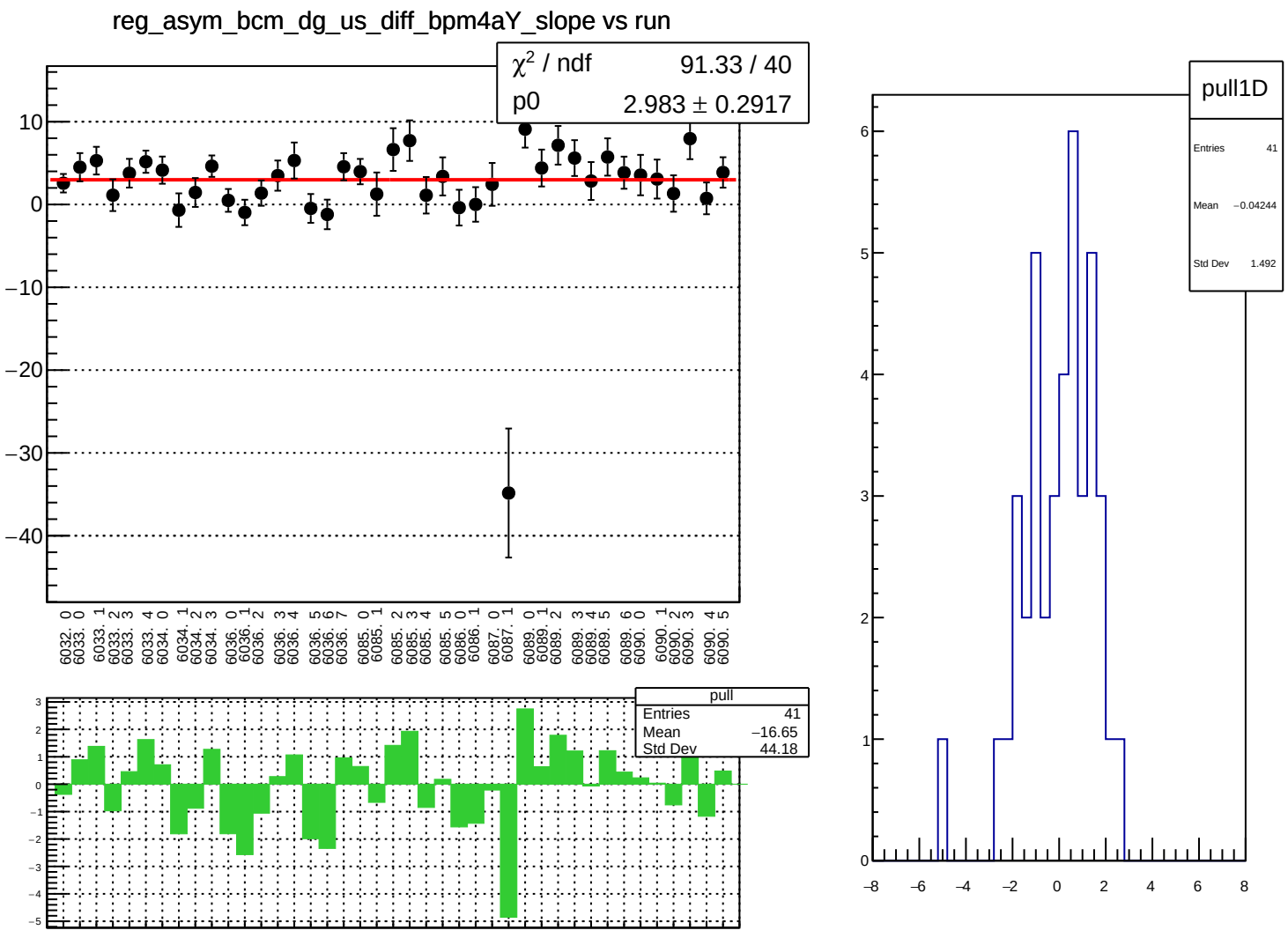

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 69.05 / 40
p0 −2.175 ± 0.5399
pull
Entries 41
Mean 42.57
Std Dev 26.4

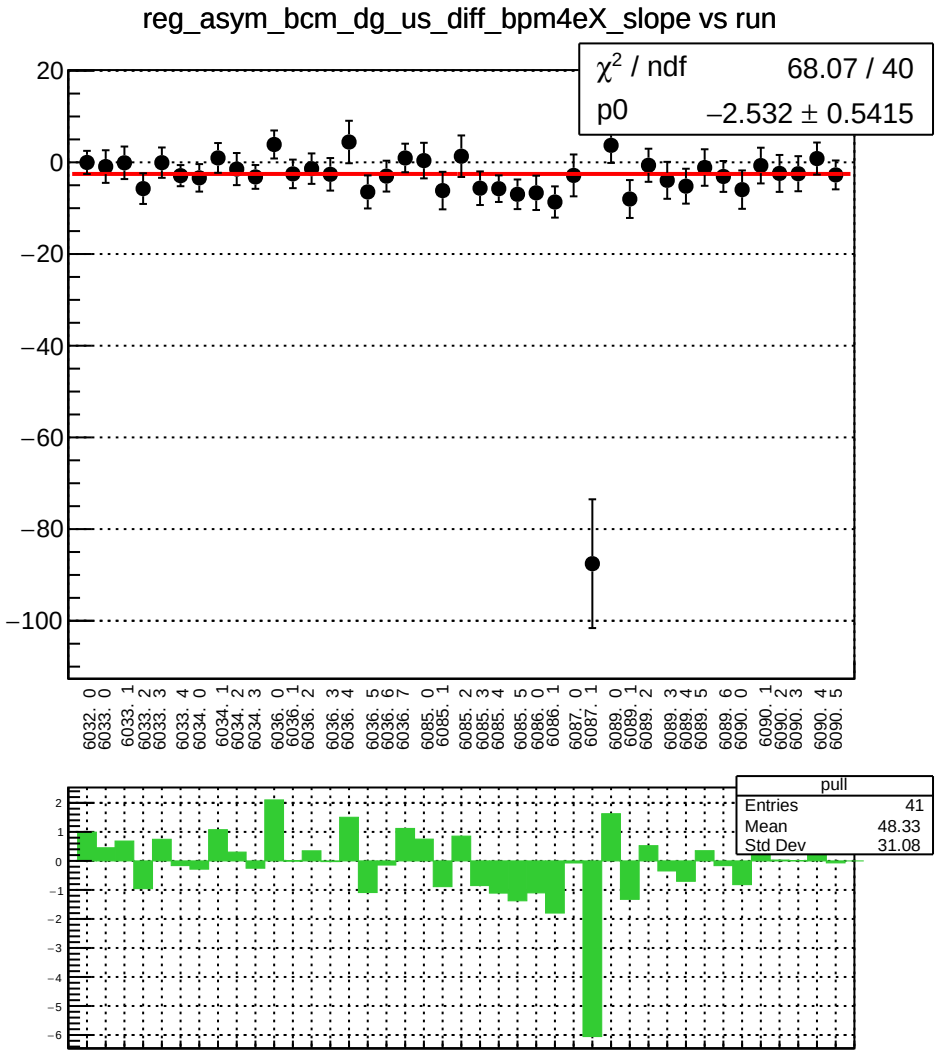

pull1D
Entries 41
Mean −0.1239
Std Dev 1.292

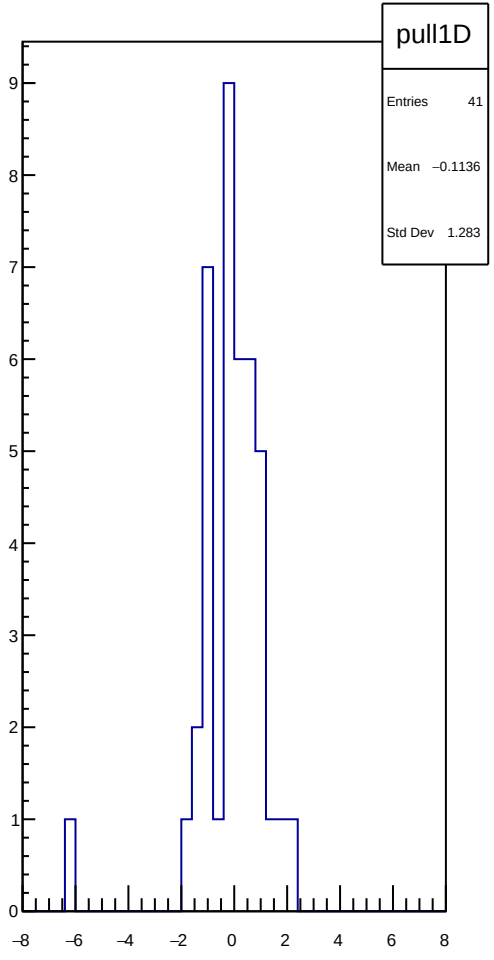

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 101.2 / 40
p0 −3.757 ± 0.3148
pull
Entries 41
Mean 20.11
Std Dev 22.6
pull1D
Entries 41
Mean 0.06918
Std Dev 1.57

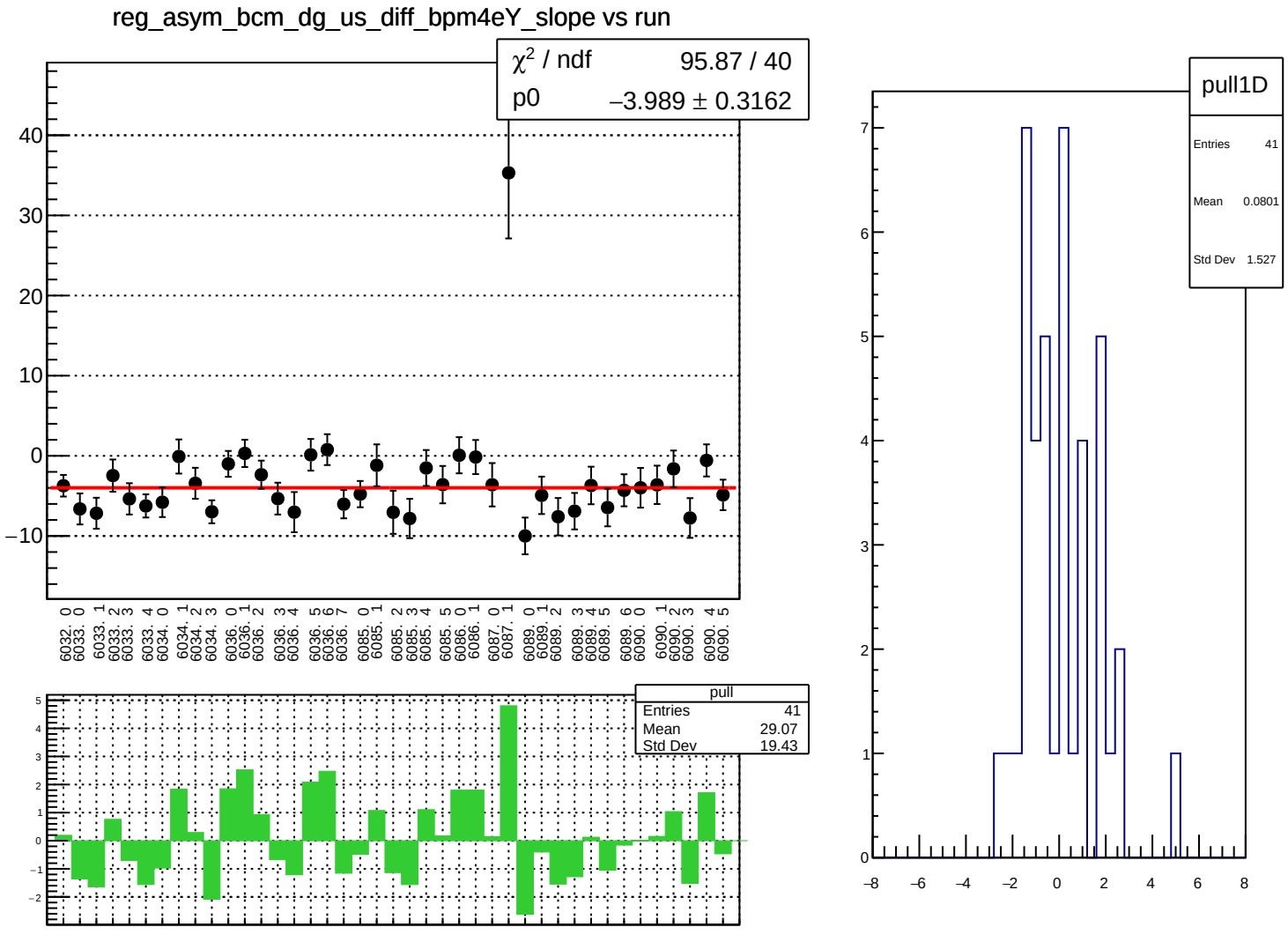

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 89.2 / 40
p0 0.29 ± 0.0246
pull
Entries 41
Mean 23.83
Std Dev 16.55
pull1D
Entries 41
Mean 0.1207
Std Dev 1.47

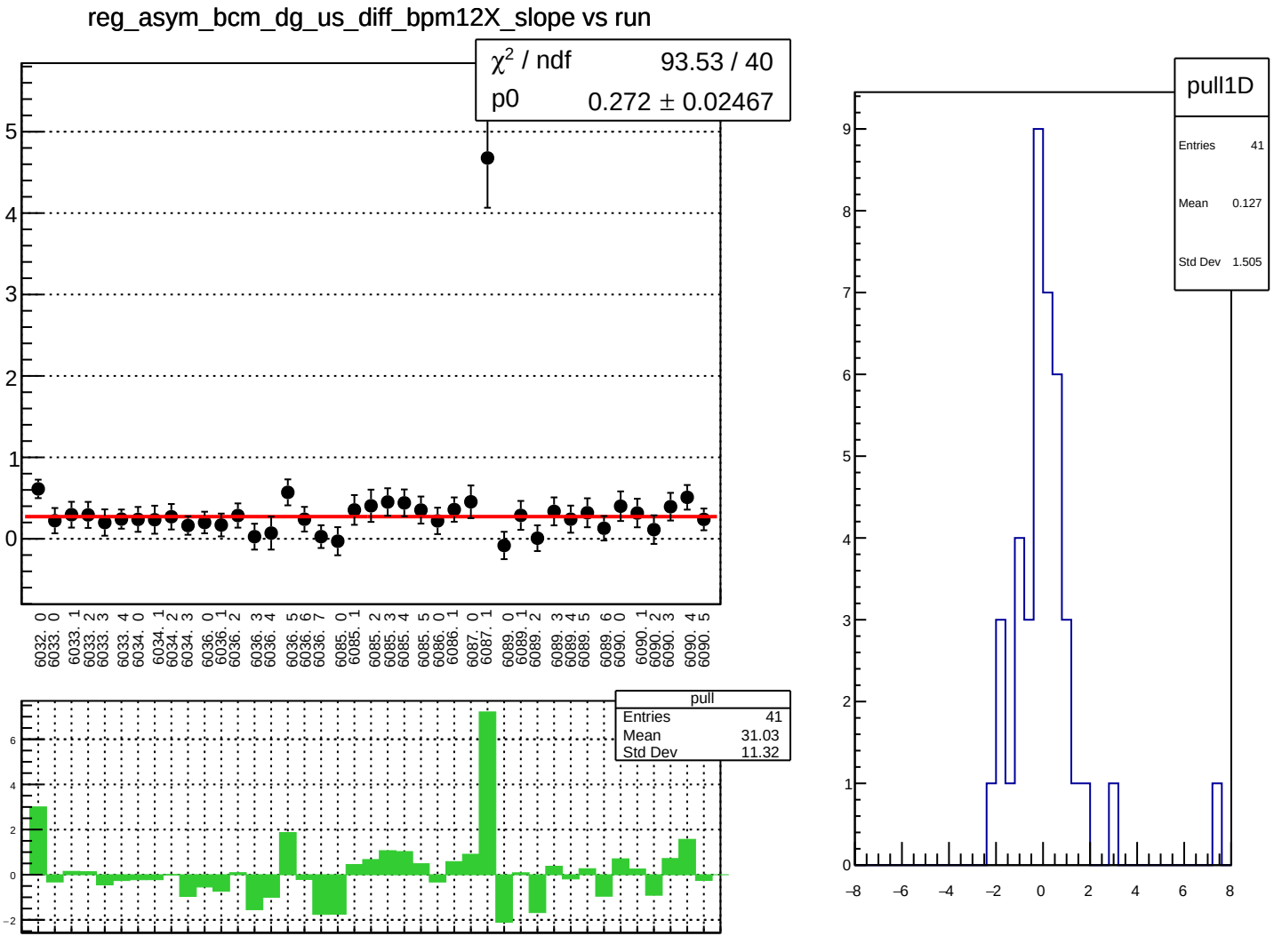

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 67.65 / 40
p0 2.417 ± 0.4874
pull
Entries 41
Mean 48.19
Std Dev 31.4
pull1D
Entries 41
Mean 0.0975
Std Dev 1.281


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 91.33 / 40
p0 2.983 ± 0.2917
10
0
−10
−20
−30
−40
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean −16.65
Std Dev 44.18
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 41
Mean −0.04244
Std Dev 1.492
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 68.07 / 40
p0 −2.532 ± 0.5415
pull
Entries 41
Mean 48.33
Std Dev 31.08


pull1D
Entries 41
Mean −0.1136
Std Dev 1.283


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 95.87 / 40
p0 −3.989 ± 0.3162
40
30
20
10
0
−10
6032. 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
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 41
Mean 29.07
Std Dev 19.43
5
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0801
Std Dev 1.527
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 93.53 / 40
p0 0.272 ± 0.02467
pull
Entries 41
Mean 31.03
Std Dev 11.32
pull1D
Entries 41
Mean 0.127
Std Dev 1.505