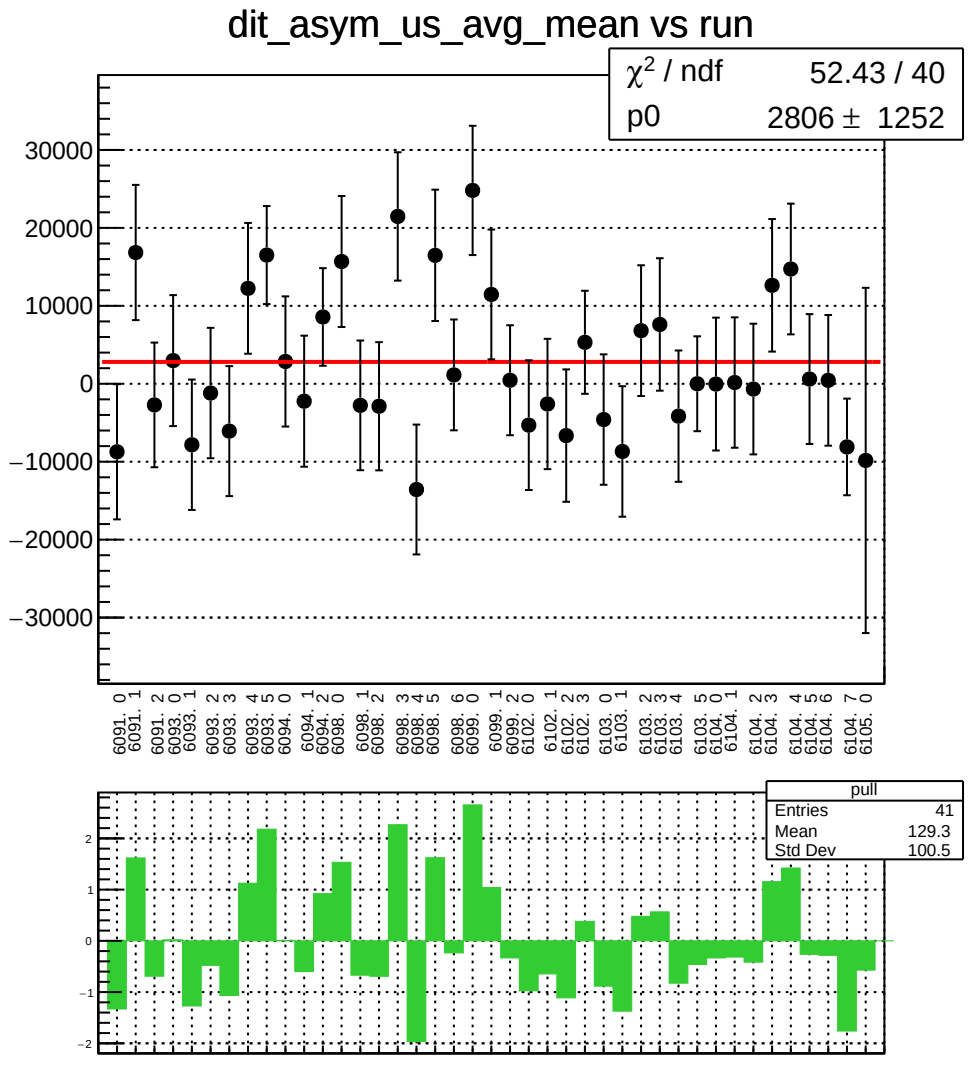
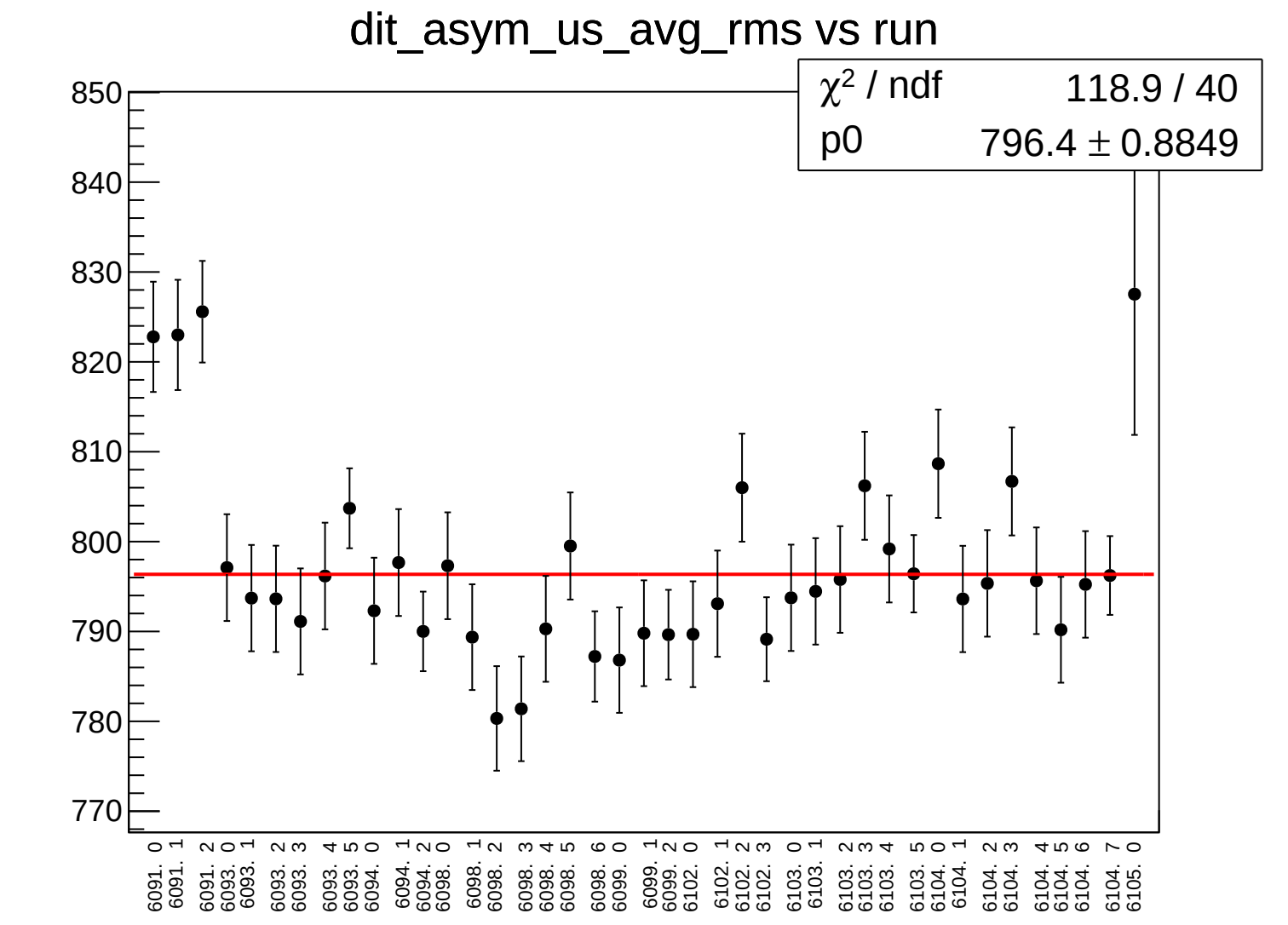
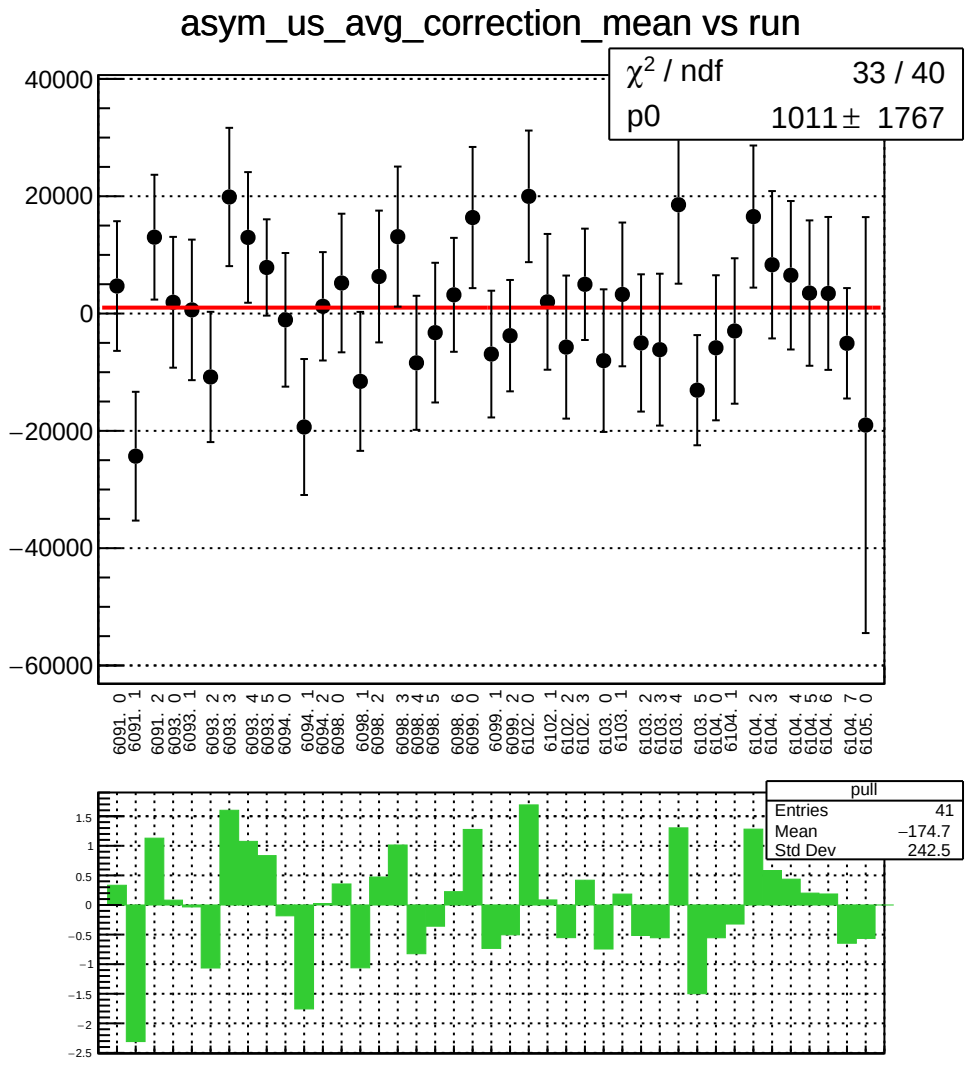
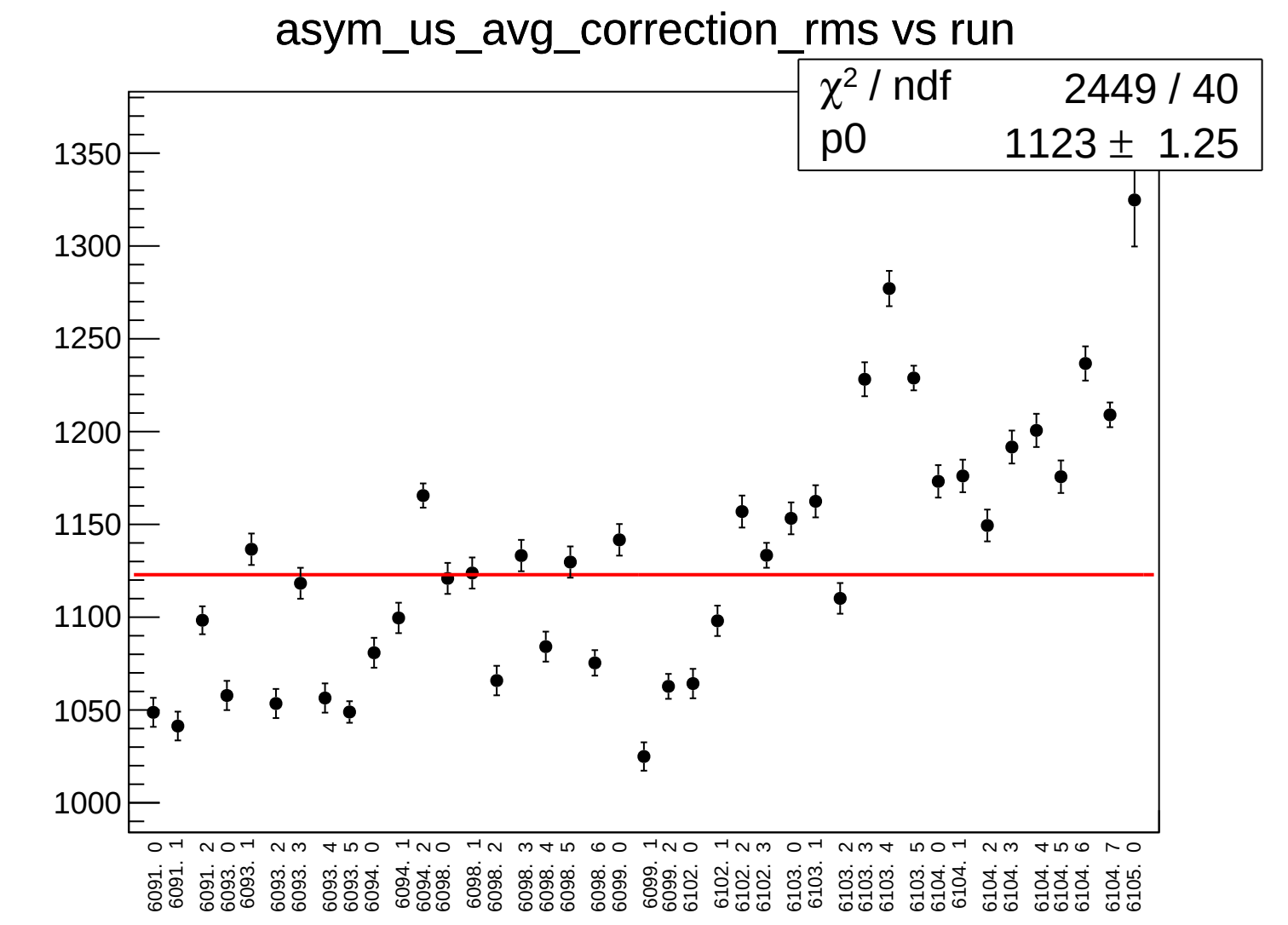
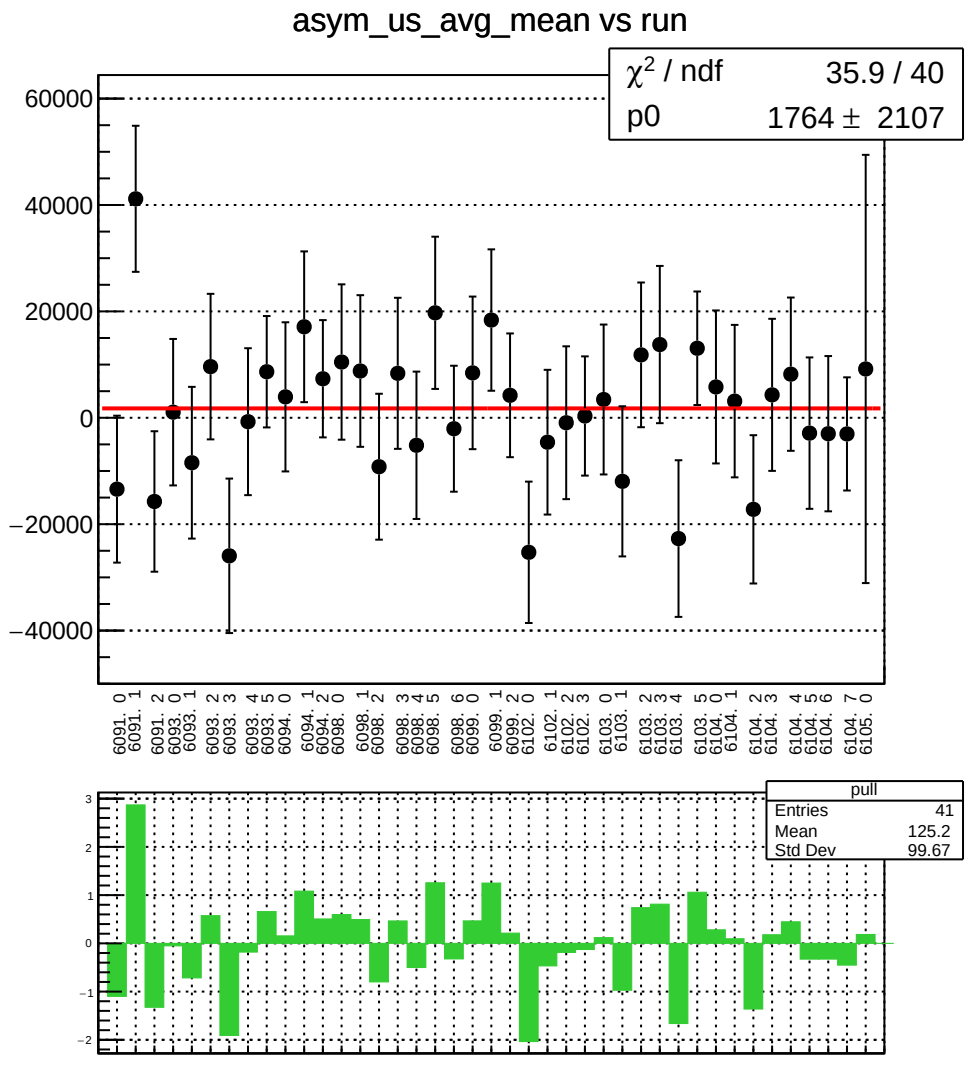
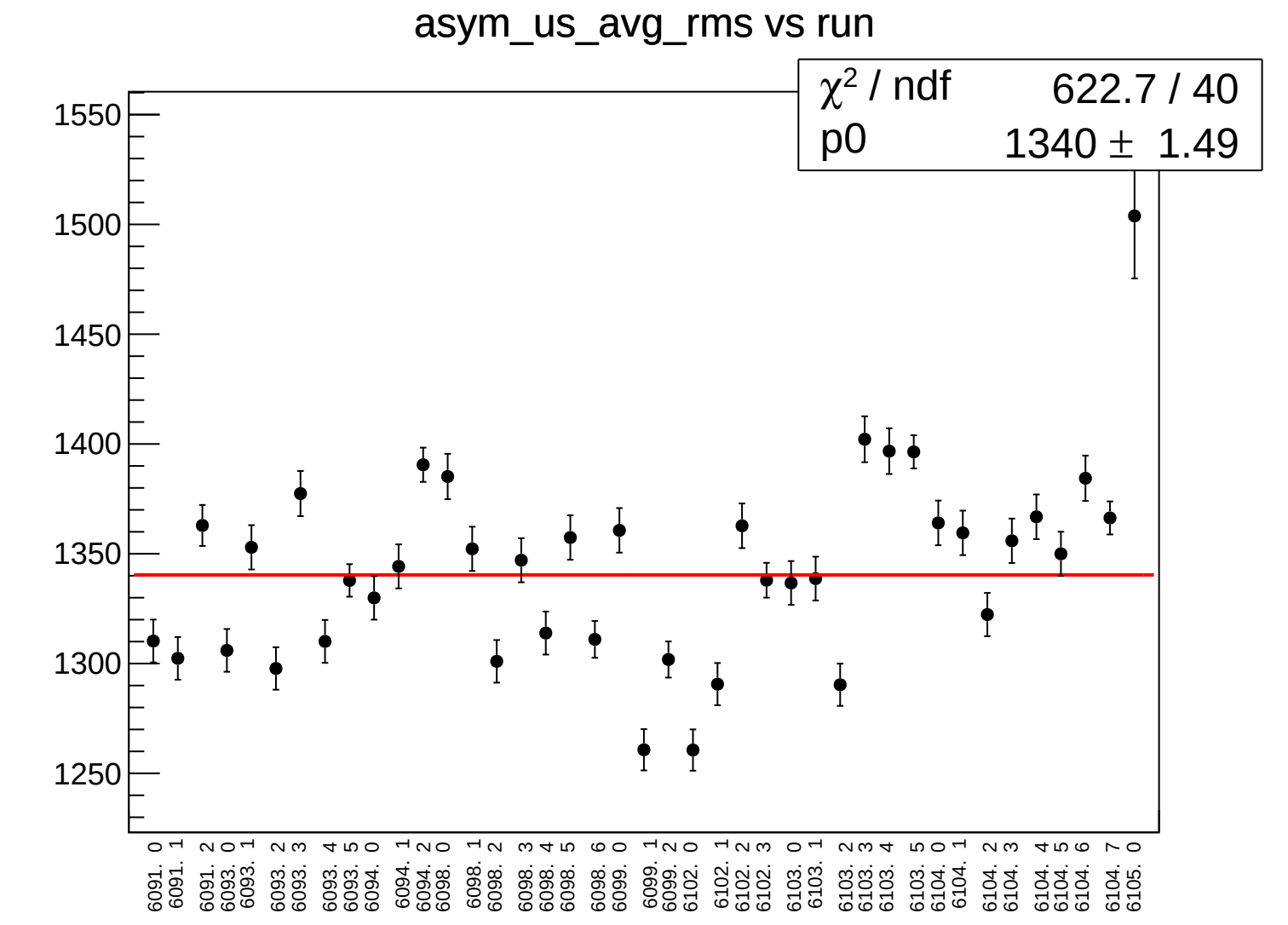

dit_asym_us_avg_mean vs run
χ² / ndf 52.43 / 40
p0 2806 ± 1252
30000
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 129.3
Std Dev 100.5
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01371
Std Dev 1.131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

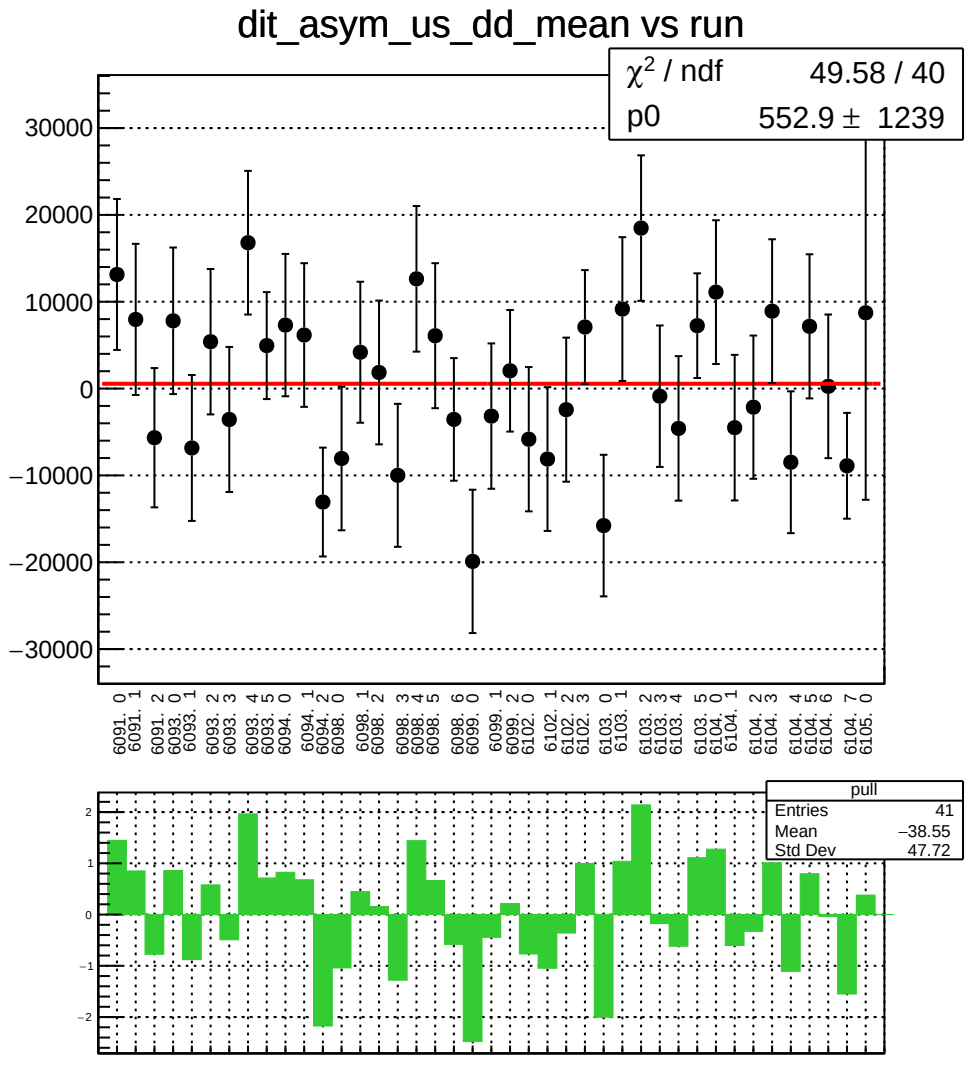

dit_asym_us_avg_rms vs run
χ² / ndf 118.9 / 40
p0 796.4 ± 0.8849
850
840
830
820
810
800
790
780
770
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

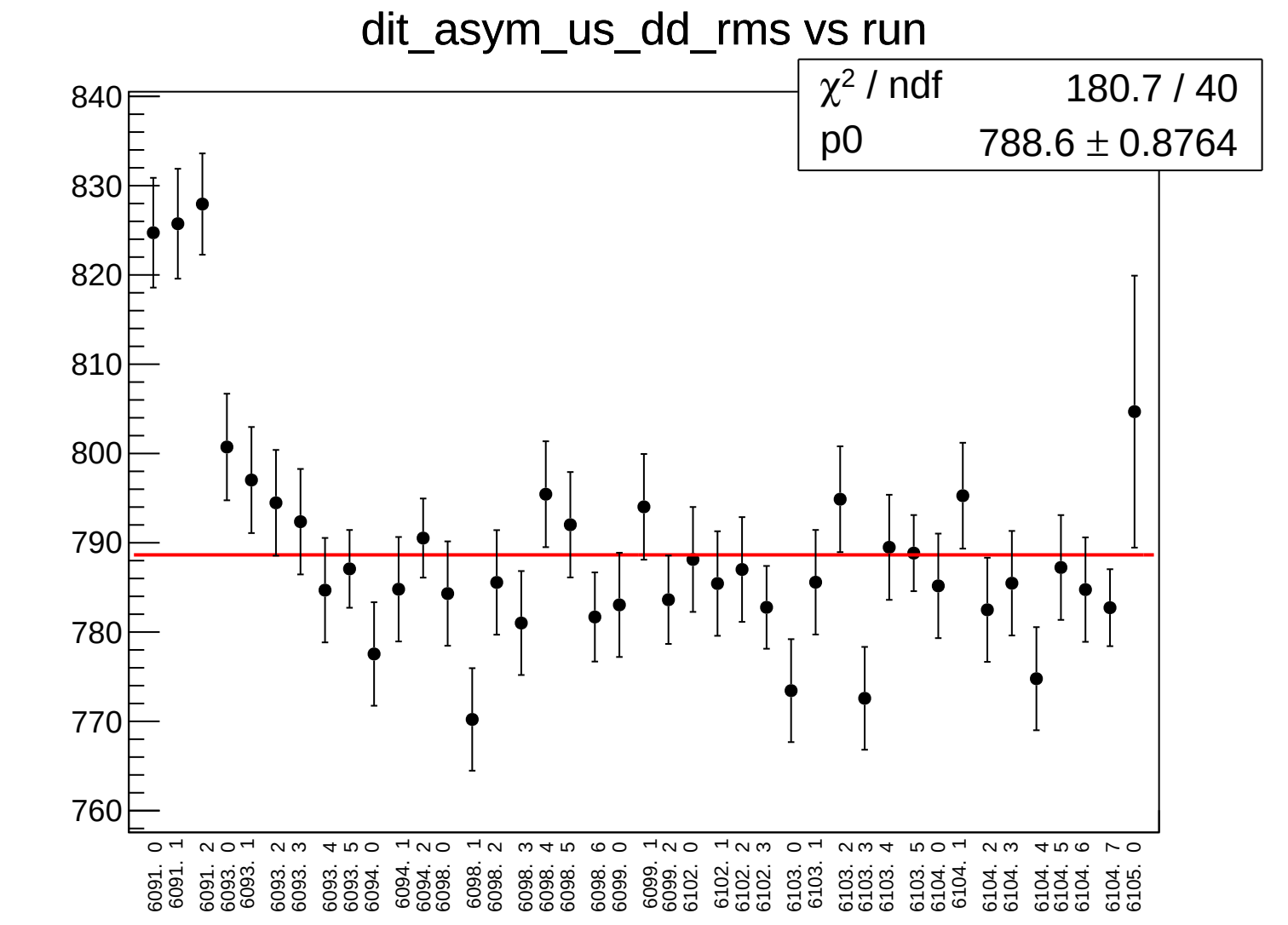

asym_us_avg_correction_mean vs run
χ² / ndf 33 / 40
p0 1011 ± 1767
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −174.7
Std Dev 242.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.0003057
Std Dev 0.8971
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

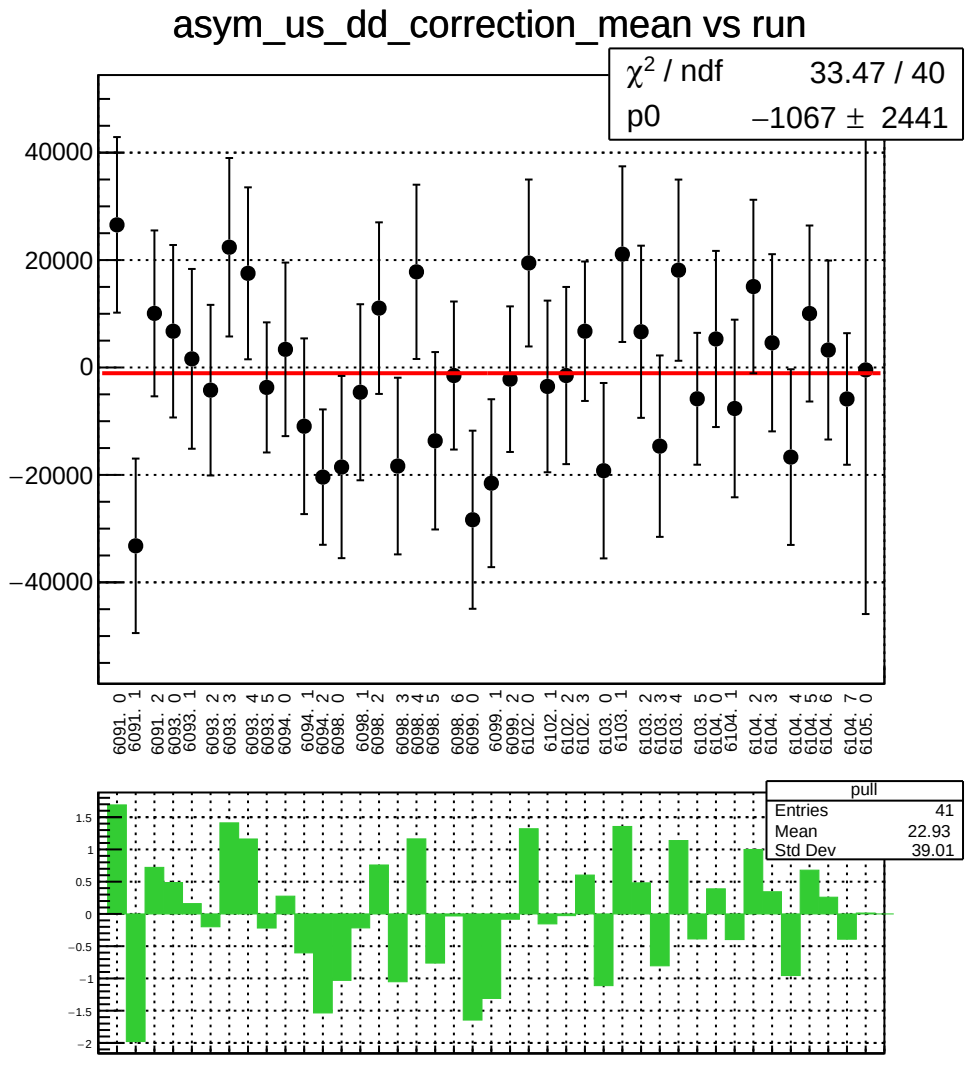

asym_us_avg_correction_rms vs run
χ² / ndf 2449 / 40
p0 1123 ± 1.25
1350
1300
1250
1200
1150
1100
1050
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

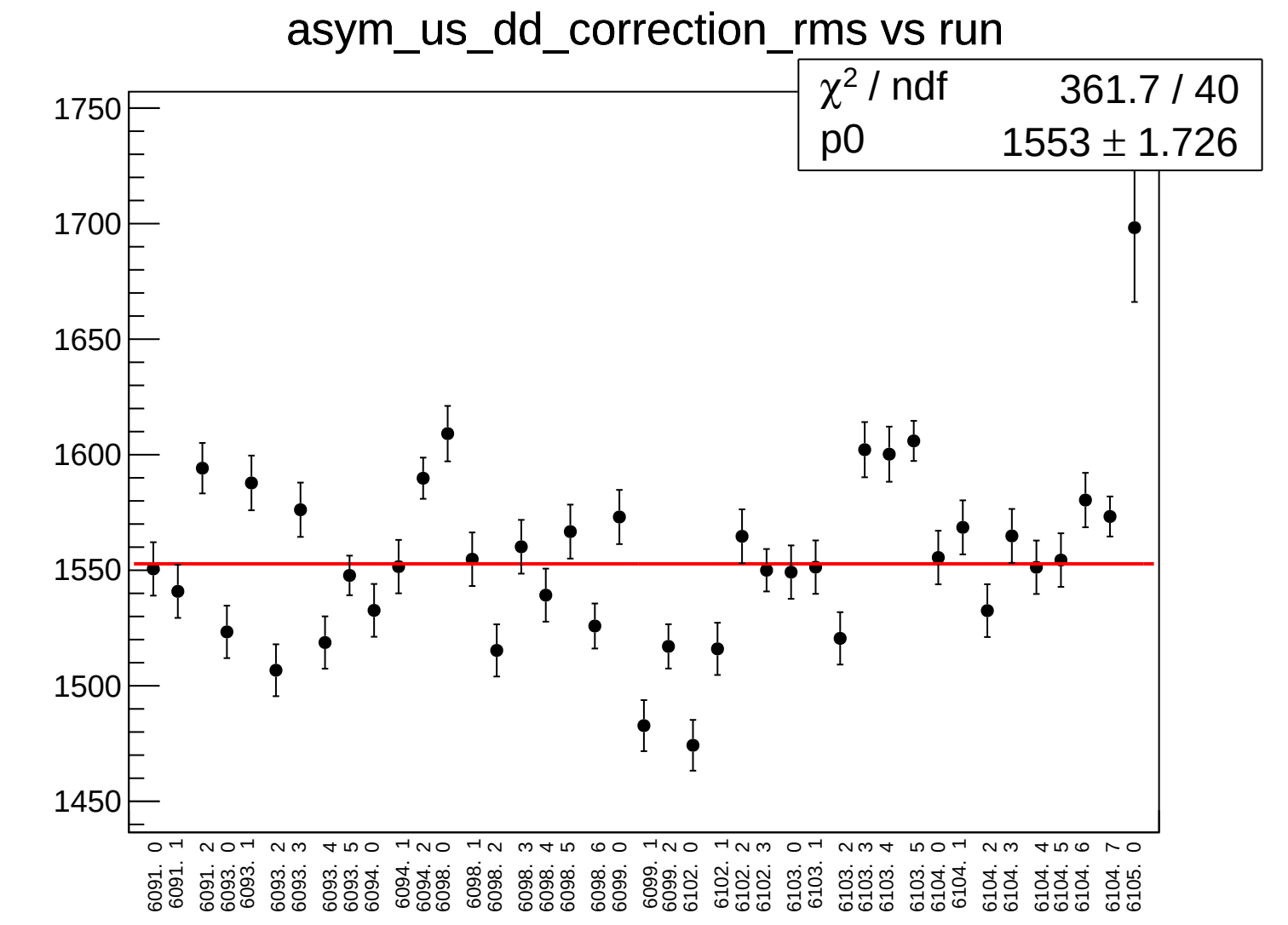

asym_us_avg_mean vs run
χ² / ndf 35.9 / 40
p0 1764 ± 2107
60000
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 125.2
Std Dev 99.67
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.00784
Std Dev 0.9357
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

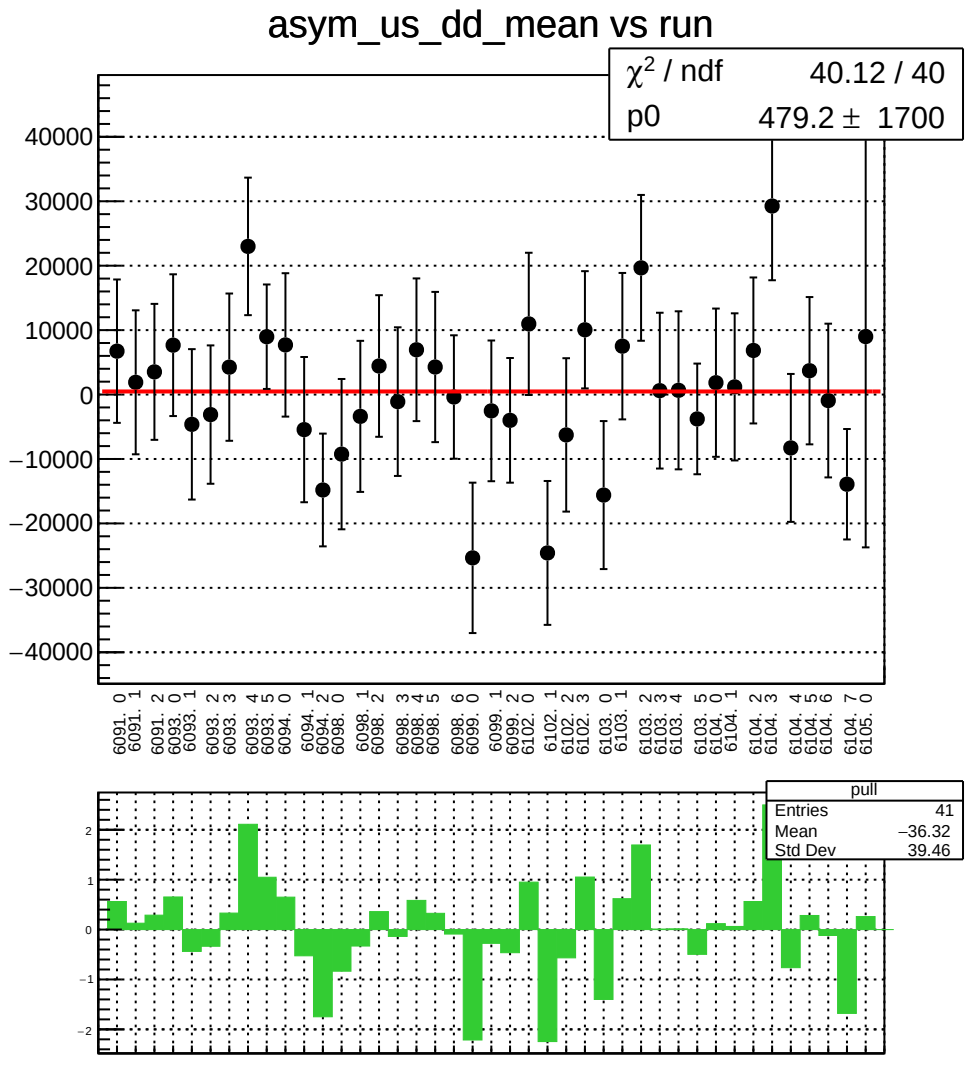

asym_us_avg_rms vs run
χ² / ndf 622.7 / 40
p0 1340 ± 1.49
1550
1500
1450
1400
1350
1300
1250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

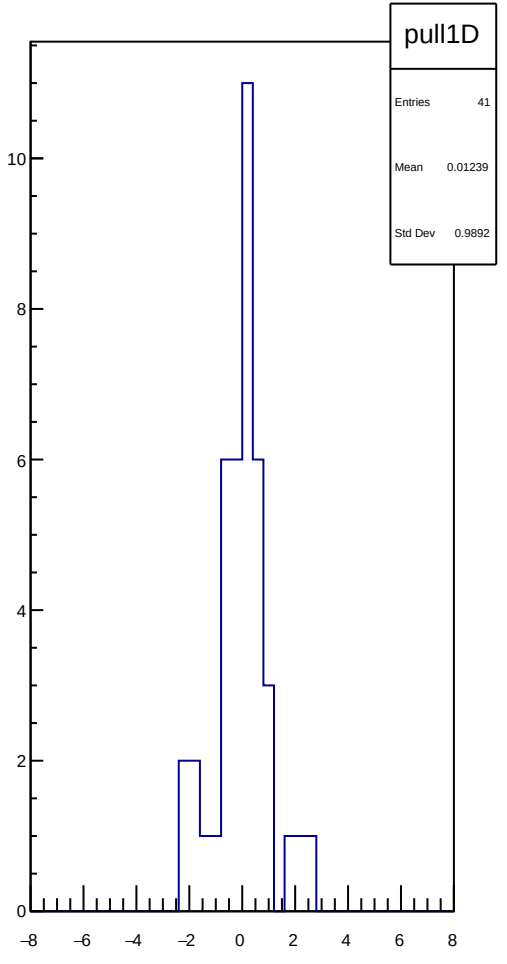

dit_asym_us_dd_mean vs run
χ² / ndf 49.58 / 40
p0 552.9 ± 1239
30000
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −38.55
Std Dev 47.72
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02068
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

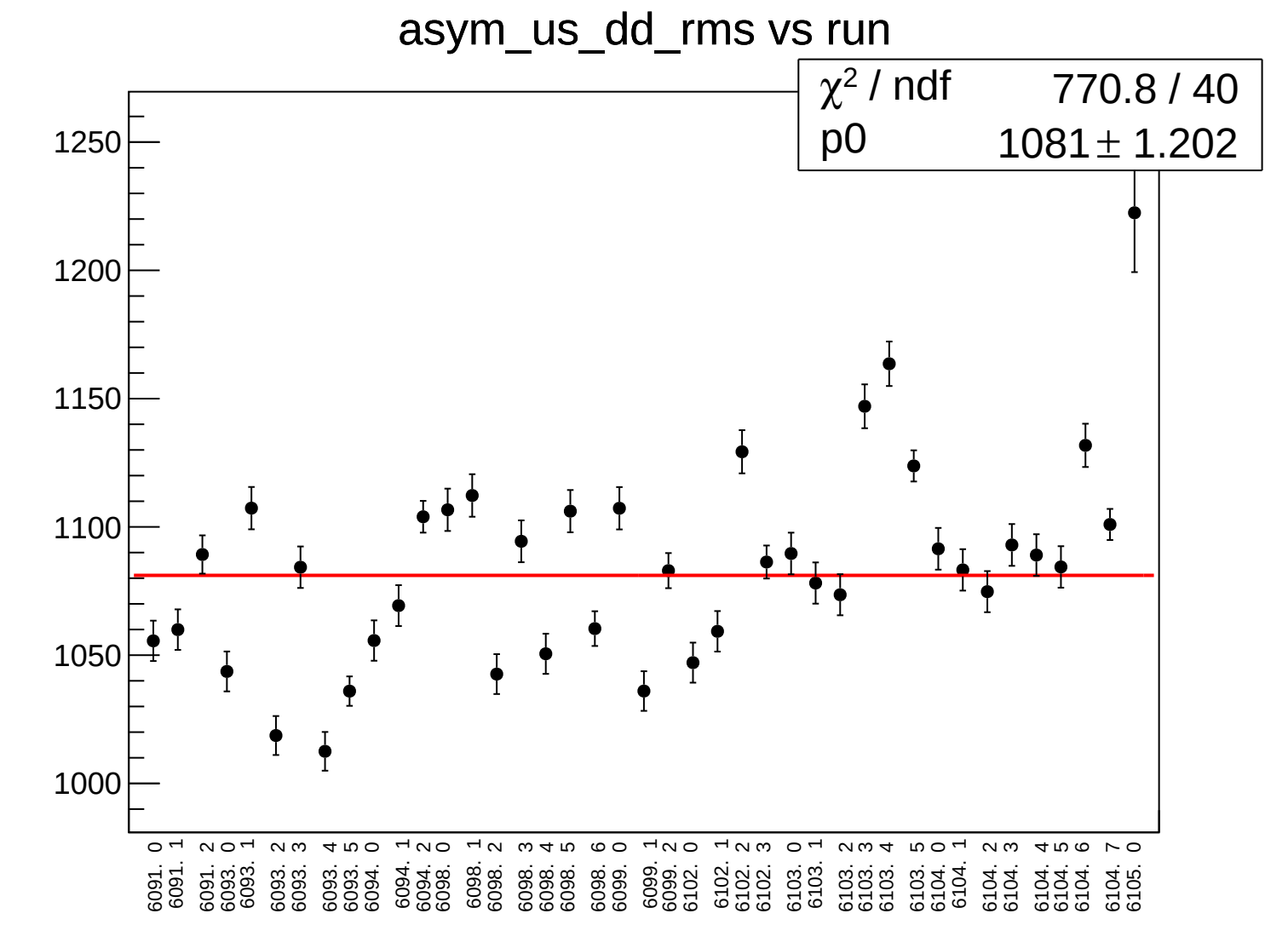

dit_asym_us_dd_rms vs run
χ² / ndf 180.7 / 40
p0 788.6 ± 0.8764
840
830
820
810
800
790
780
770
760
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

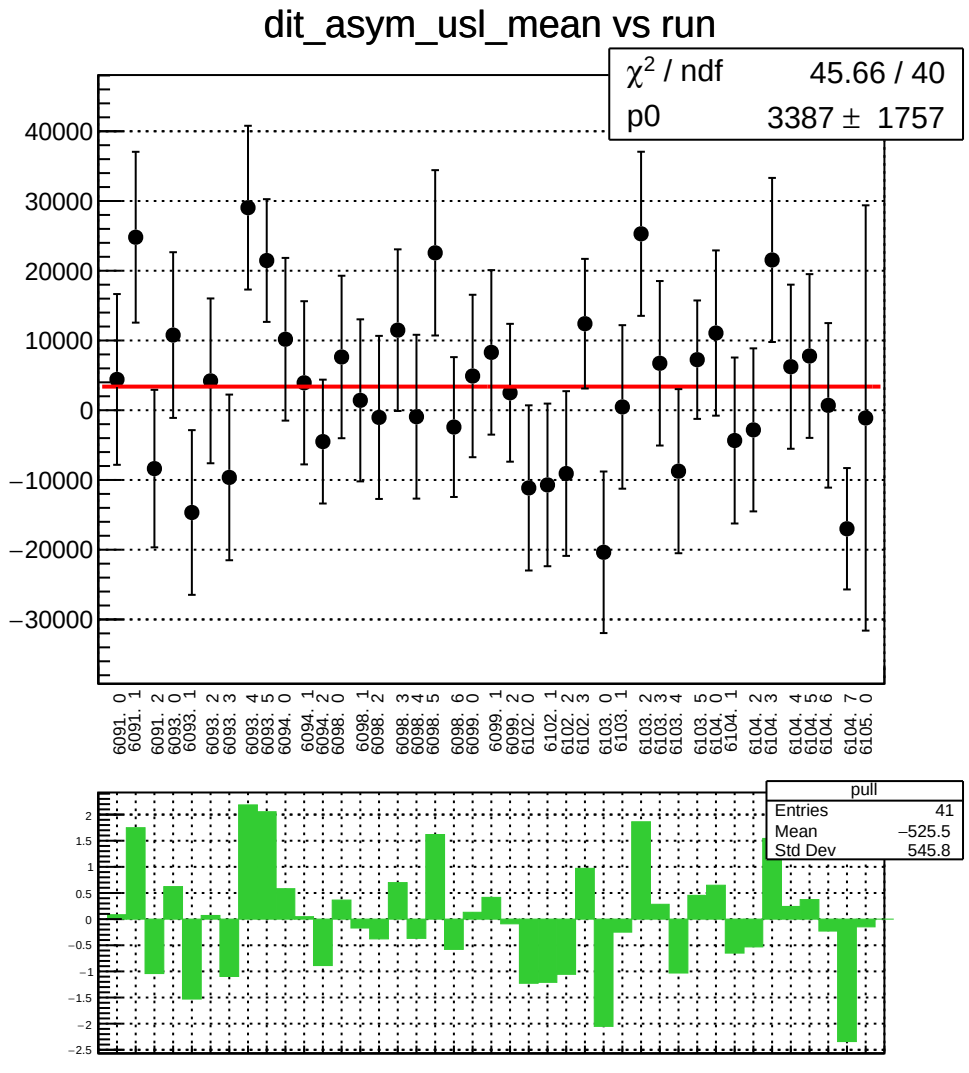

asym_us_dd_correction_mean vs run
χ² / ndf 33.47 / 40
p0 −1067 ± 2441
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 22.93
Std Dev 39.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01271
Std Dev 0.9035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

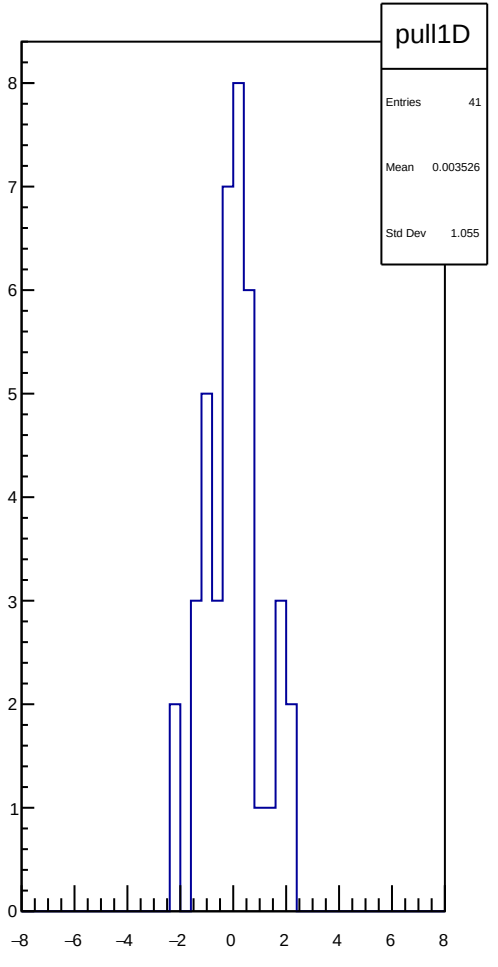

asym_us_dd_correction_rms vs run
χ² / ndf 361.7 / 40
p0 1553 ± 1.726
1750
1700
1650
1600
1550
1500
1450
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

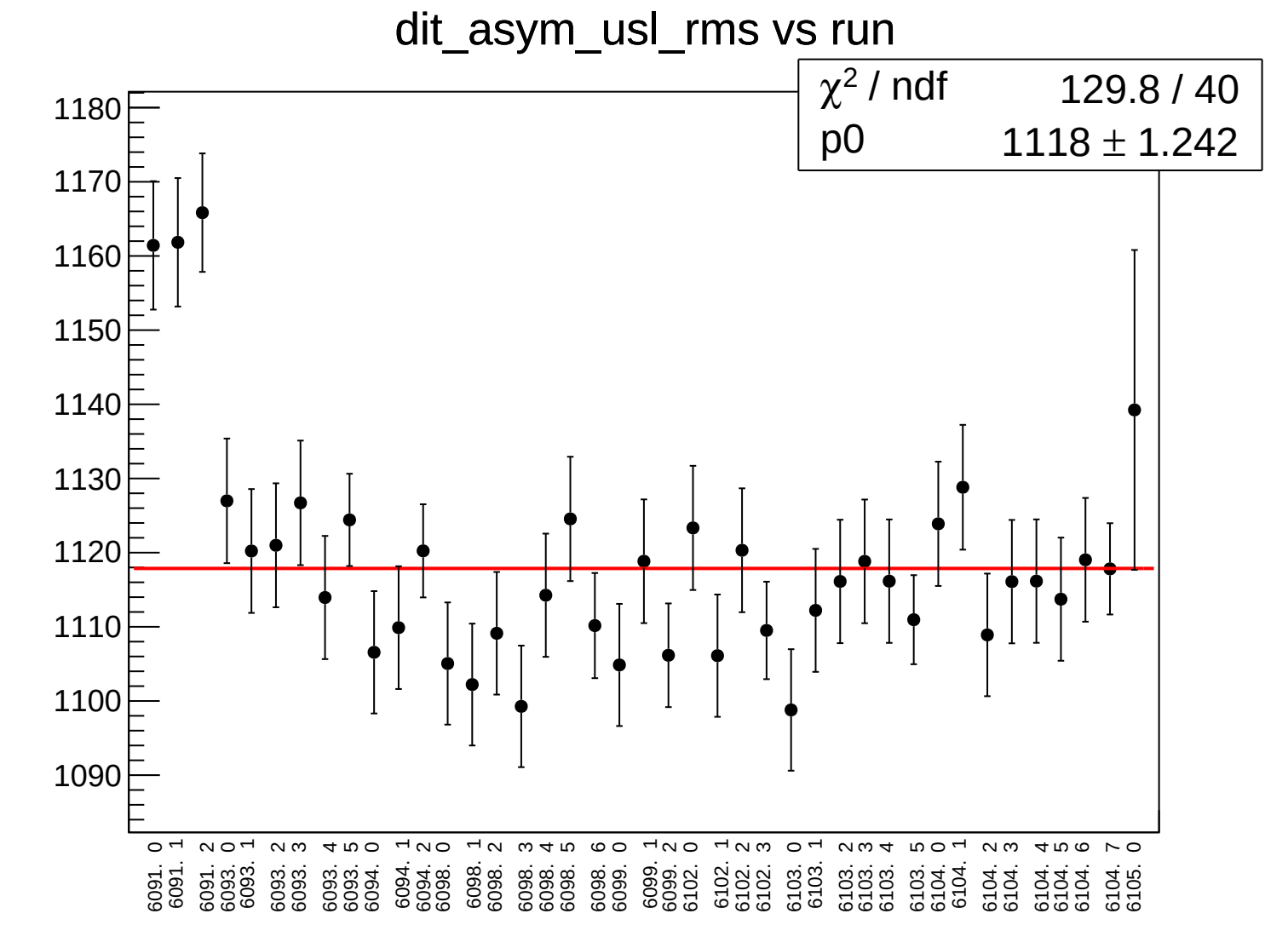

asym_us_dd_mean vs run
χ² / ndf 40.12 / 40
p0 479.2 ± 1700
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −36.32
Std Dev 39.46
2
1
0
−1
−2

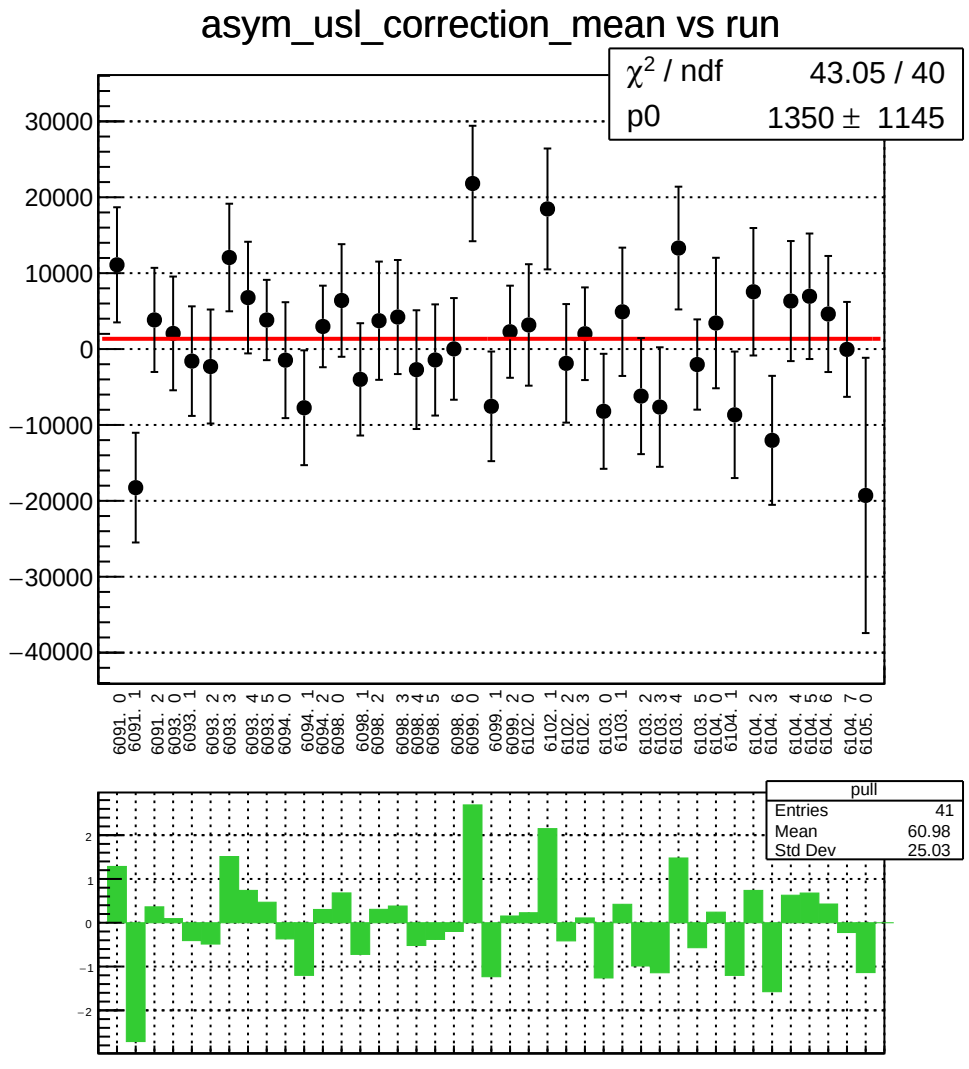

pull1D
Entries 41
Mean 0.01239
Std Dev 0.9892
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 770.8 / 40
p0 1081 ± 1.202
1250
1200
1150
1100
1050
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0


dit_asym_usl_mean vs run
χ² / ndf 45.66 / 40
p0 3387 ± 1757
40000
30000
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −525.5
Std Dev 545.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.003526
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_rms vs run
χ² / ndf 129.8 / 40
p0 1118 ± 1.242
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0


asym_usl_correction_mean vs run
χ² / ndf 43.05 / 40
p0 1350 ± 1145
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 60.98
Std Dev 25.03
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01614
Std Dev 1.025
9
8
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5
4
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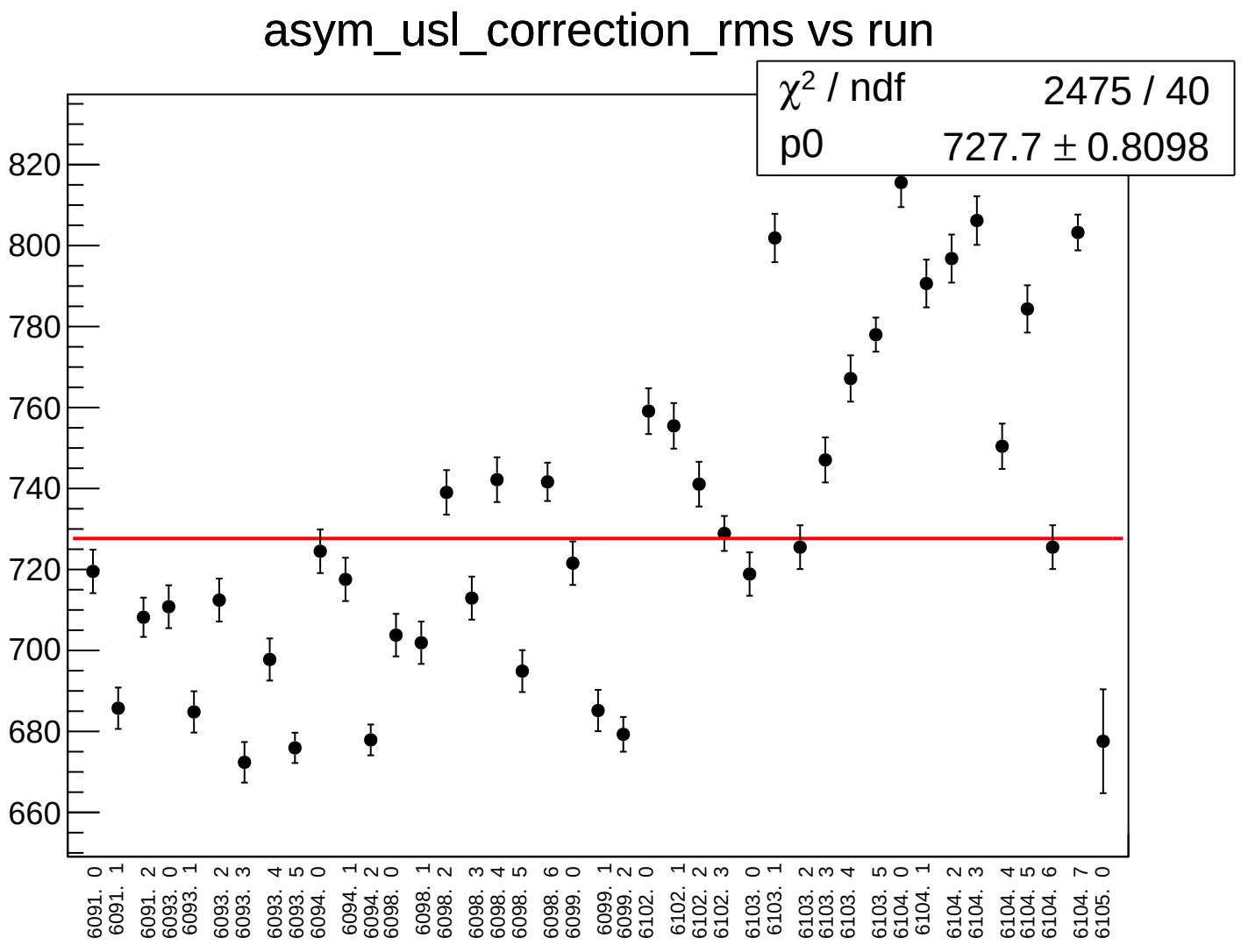
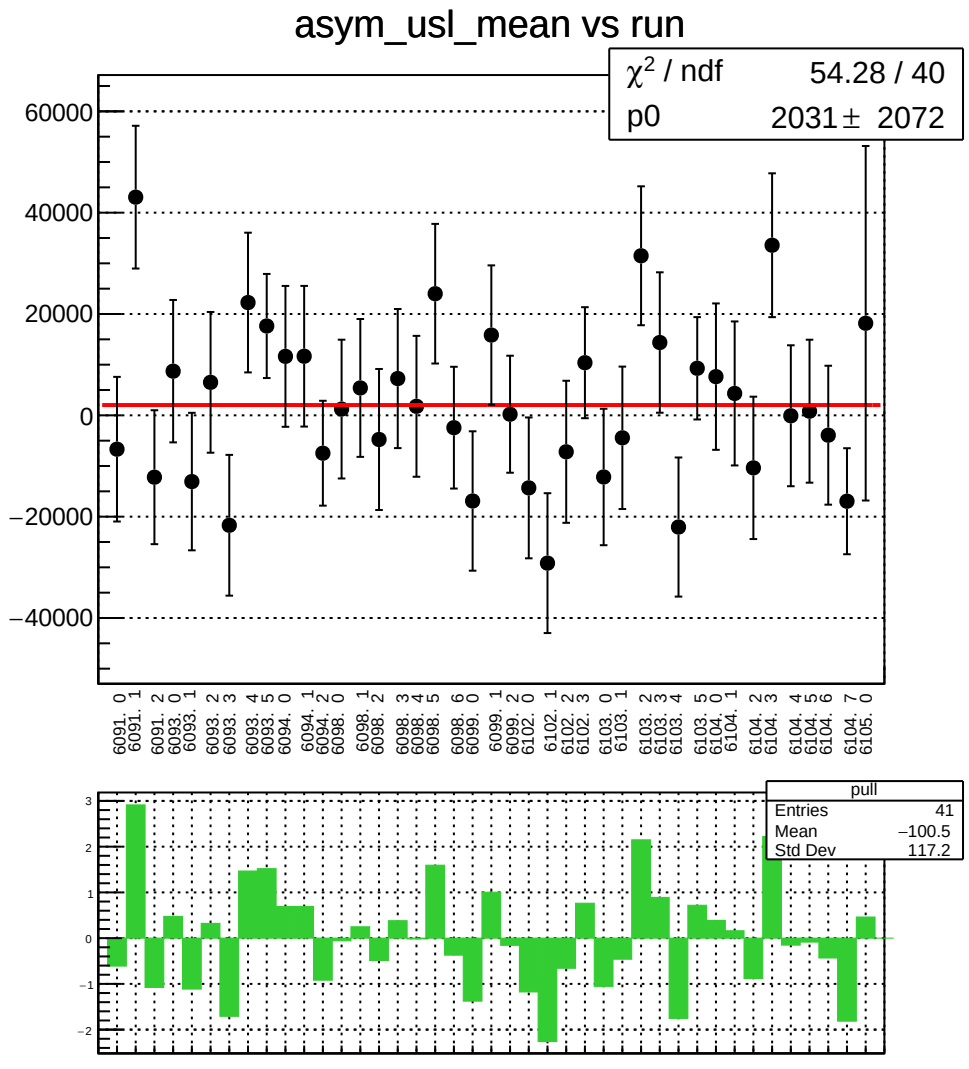
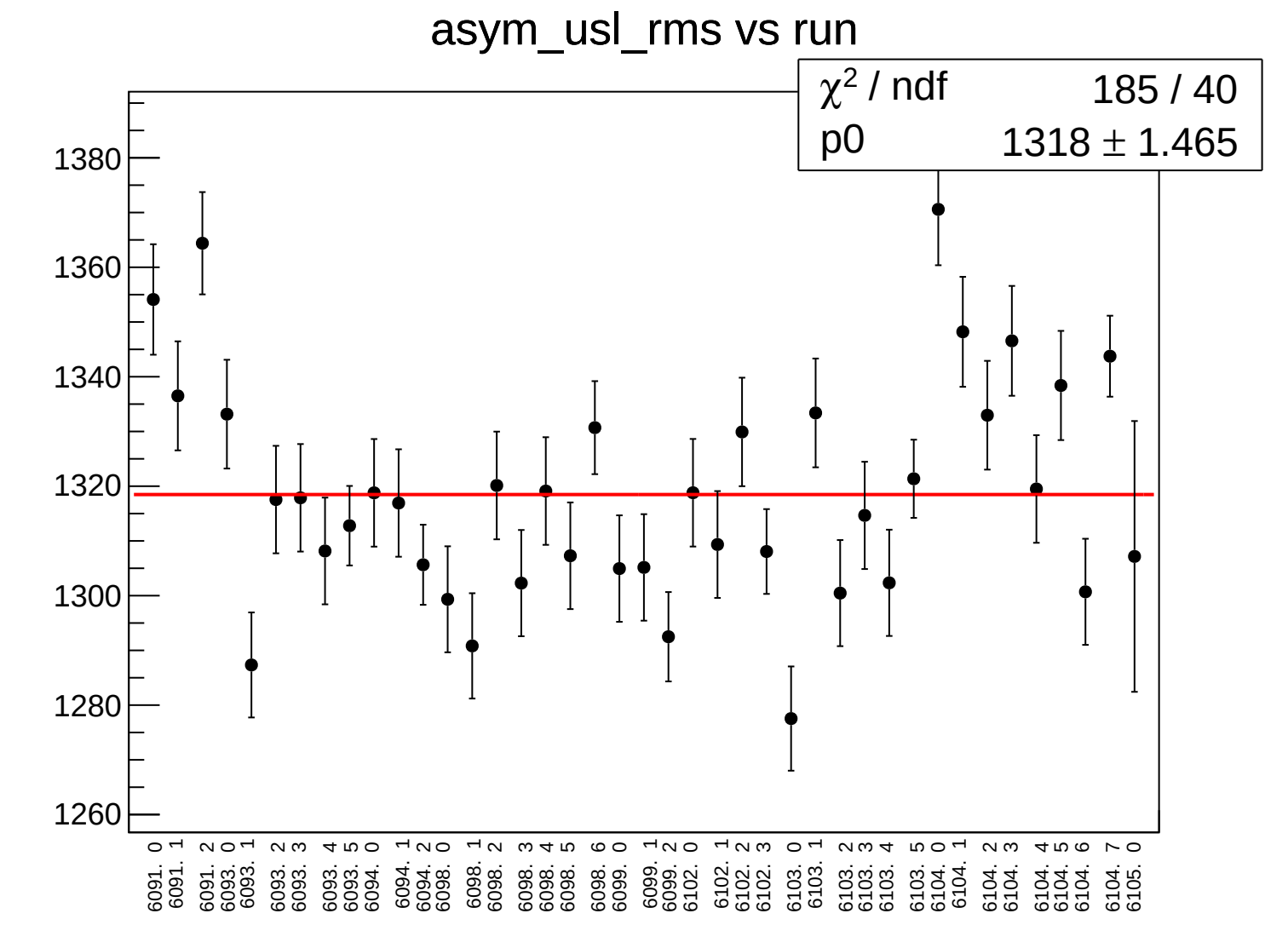
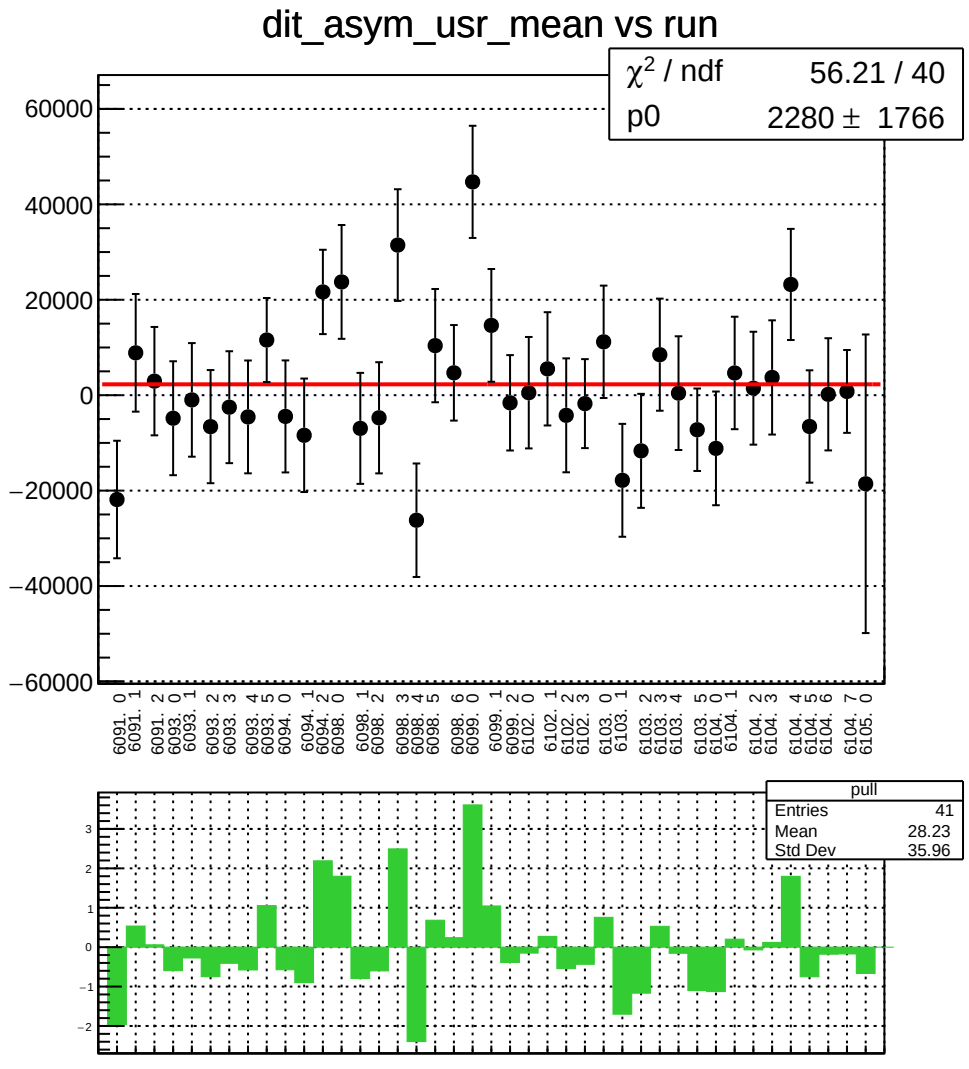
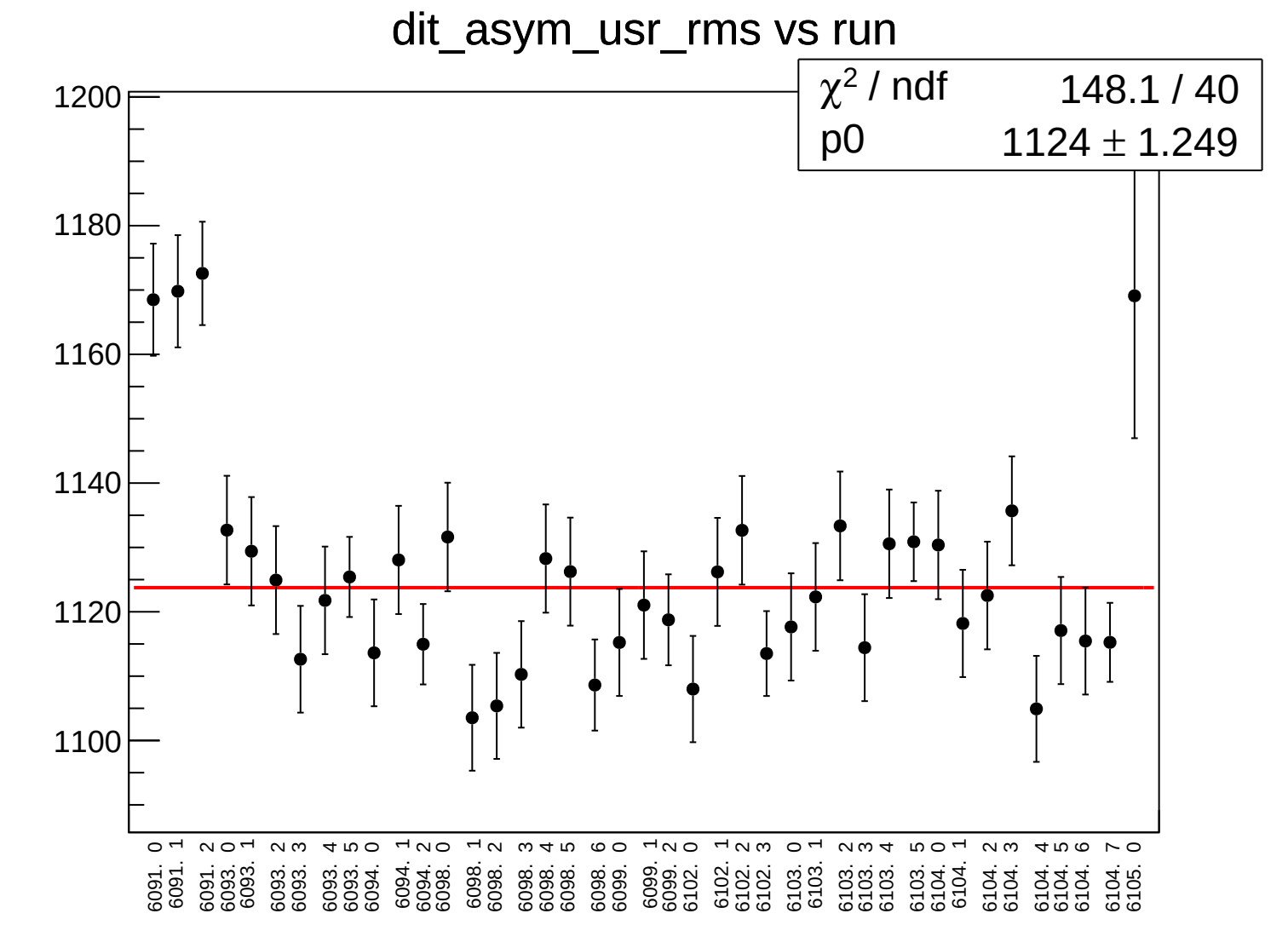
−4
−2
0
2
4
6
8

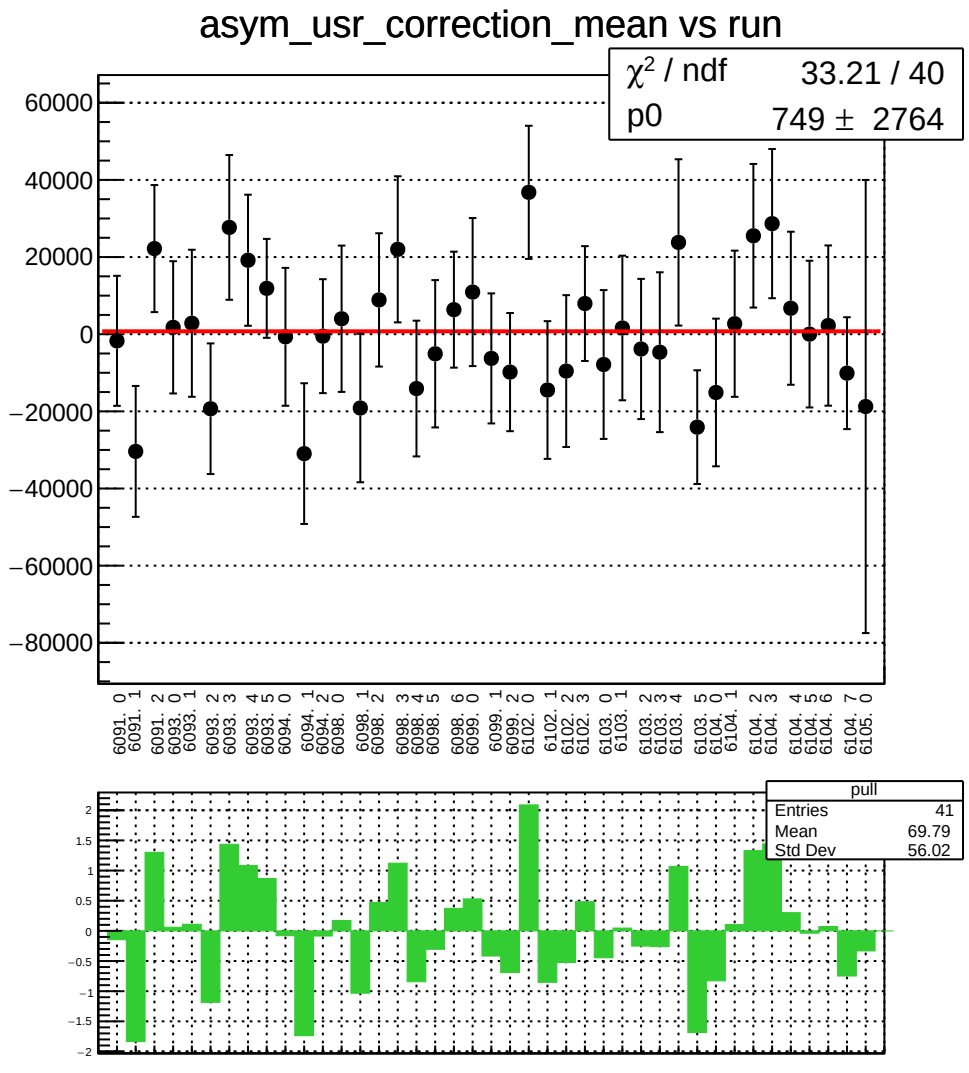

asym_usl_correction_rms vs run
χ² / ndf 2475 / 40
p0 727.7 ± 0.8098
820
800
780
760
740
720
700
680
660
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

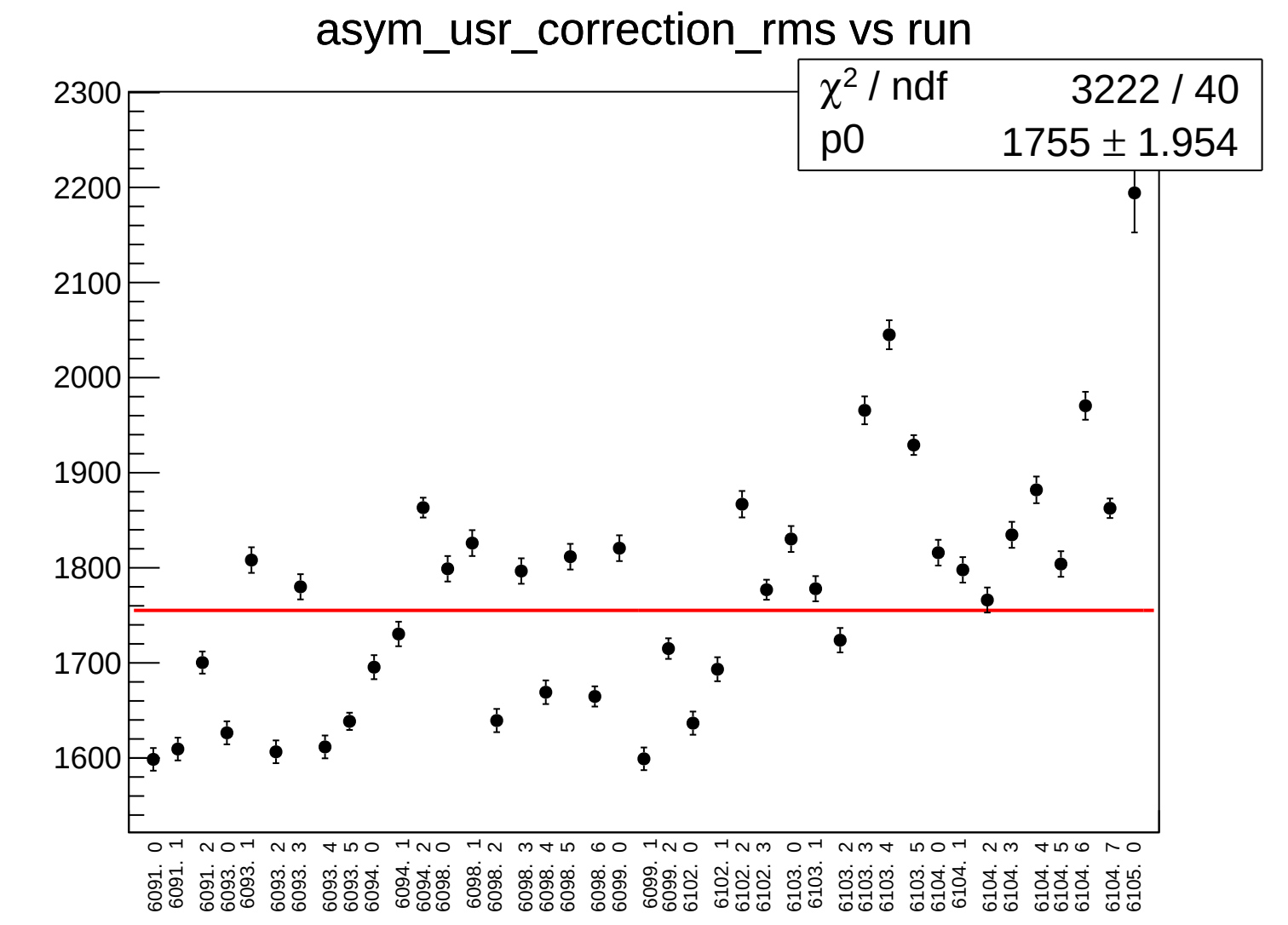

asym_usl_mean vs run
χ² / ndf 54.28 / 40
p0 2031 ± 2072
60000
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −100.5
Std Dev 117.2
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01062
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

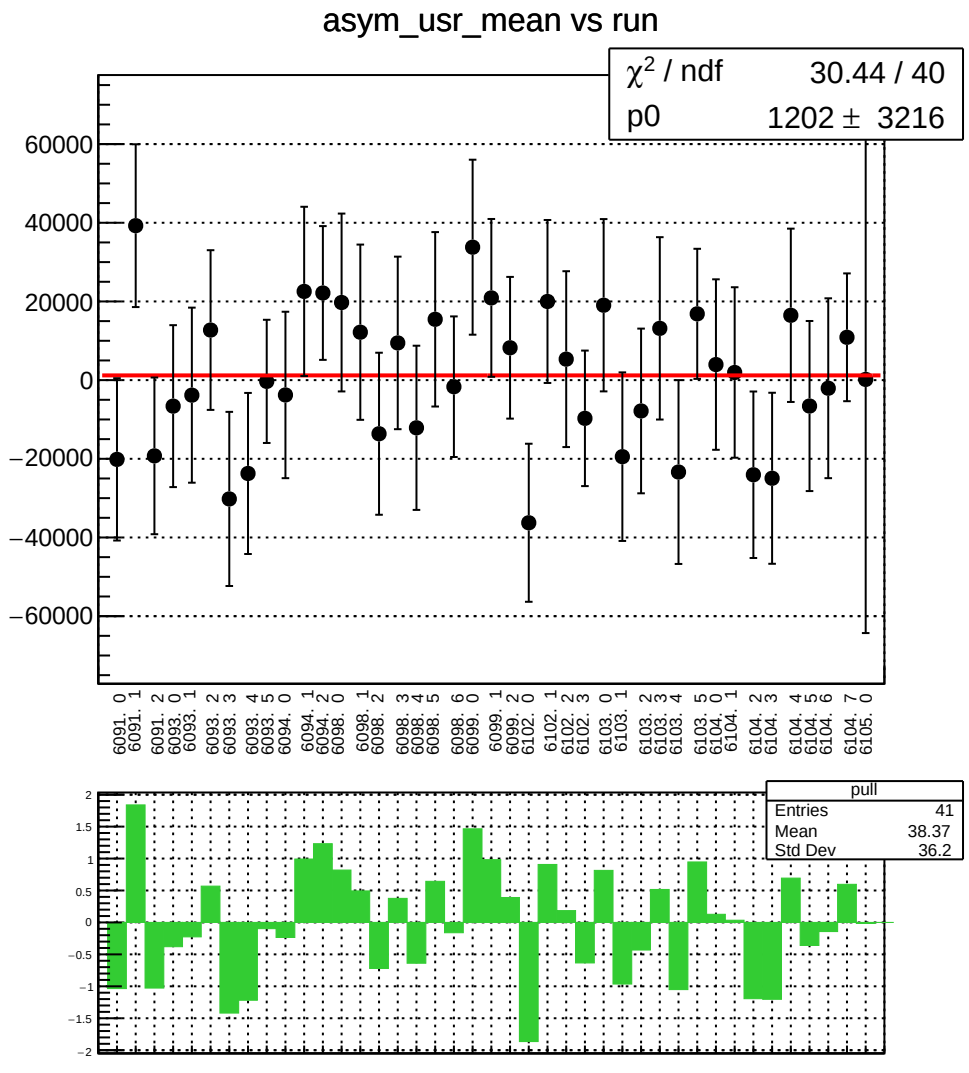

asym_usl_rms vs run
χ² / ndf 185 / 40
p0 1318 ± 1.465
1380
1360
1340
1320
1300
1280
1260
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

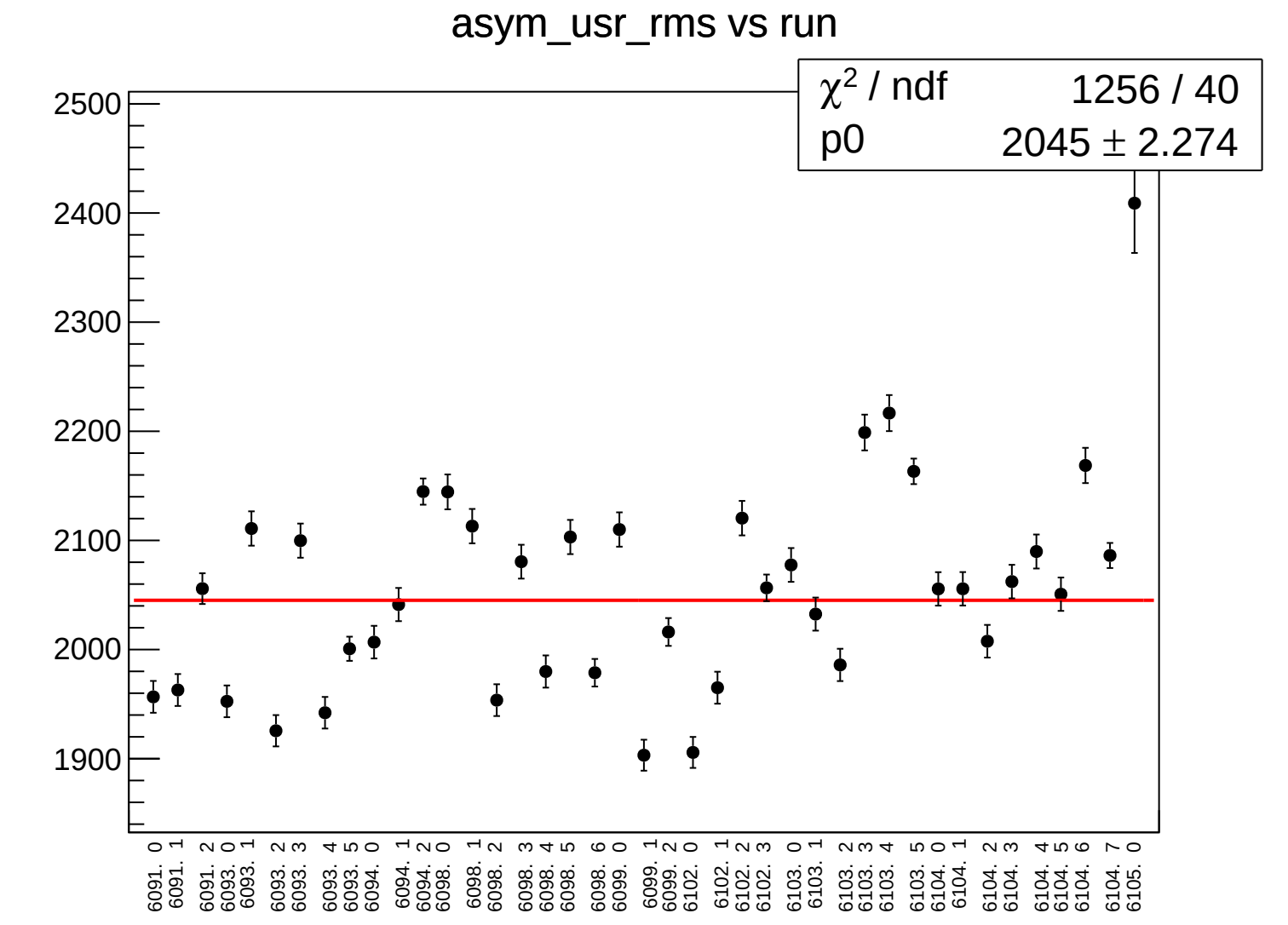

dit_asym_usr_mean vs run
χ² / ndf 56.21 / 40
p0 2280 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 28.23
Std Dev 35.96
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02549
Std Dev 1.171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

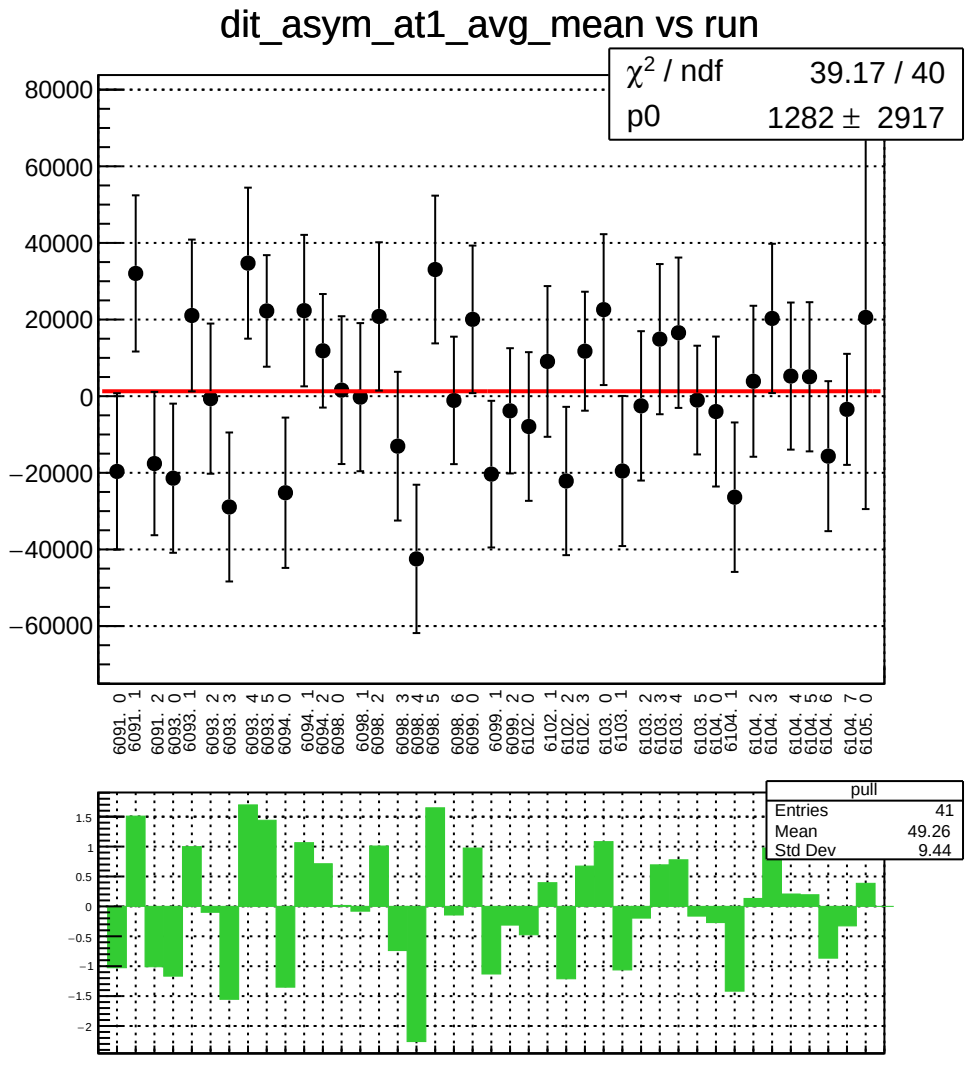

dit_asym_usr_rms vs run
χ² / ndf 148.1 / 40
p0 1124 ± 1.249
1200
1180
1160
1140
1120
1100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

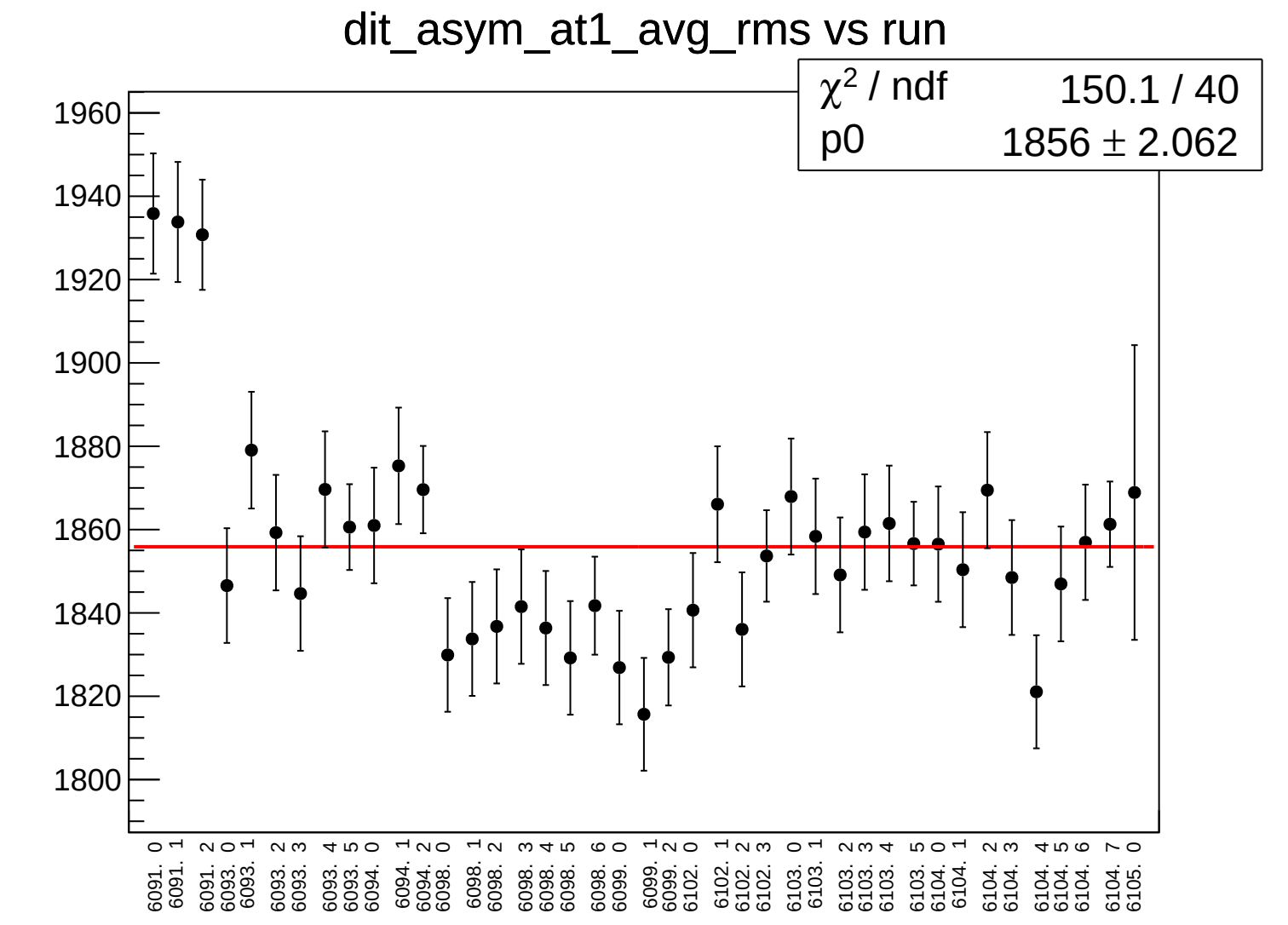

asym_usr_correction_mean vs run
χ² / ndf 33.21 / 40
p0 749 ± 2764
60000
40000
20000
0
−20000
−40000
−60000
−80000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 69.79
Std Dev 56.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.003559
Std Dev 0.9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

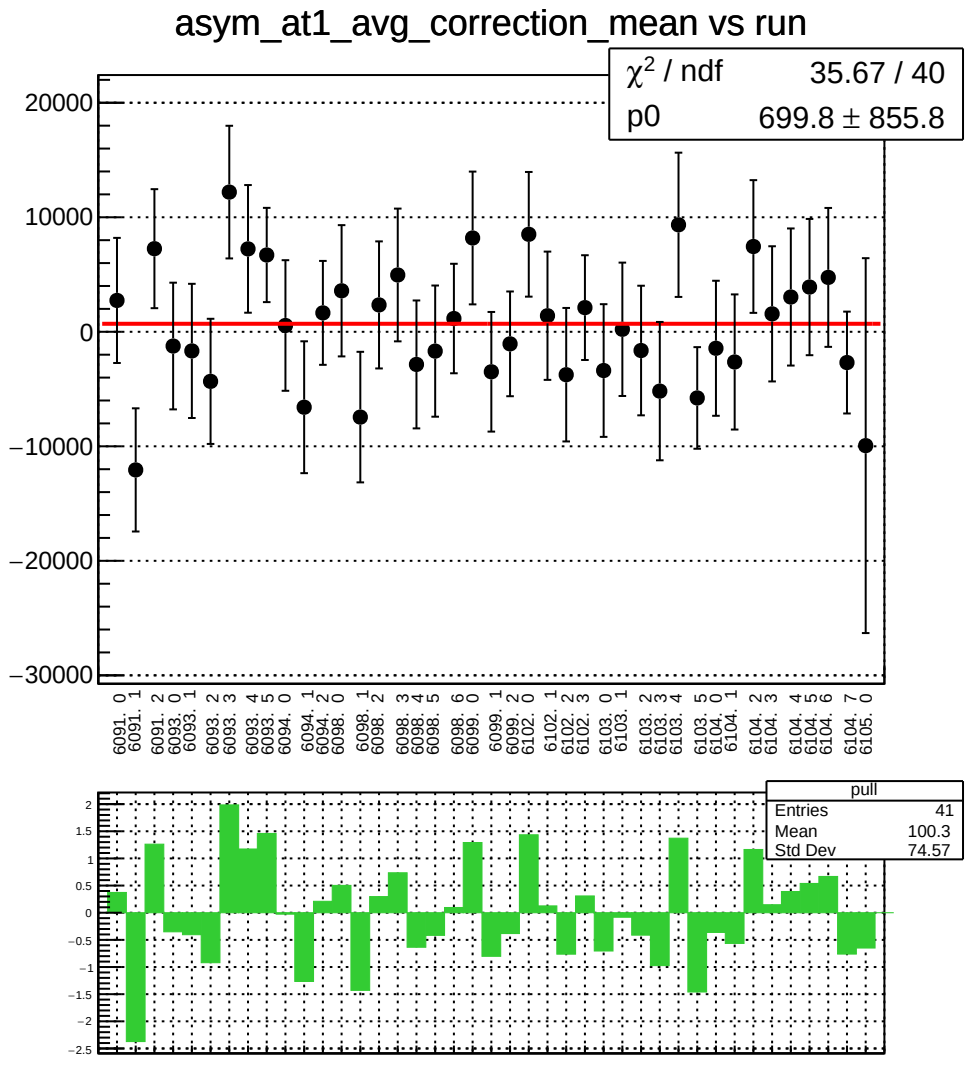

asym_usr_correction_rms vs run
χ² / ndf 3222 / 40
p0 1755 ± 1.954
2300
2200
2100
2000
1900
1800
1700
1600
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

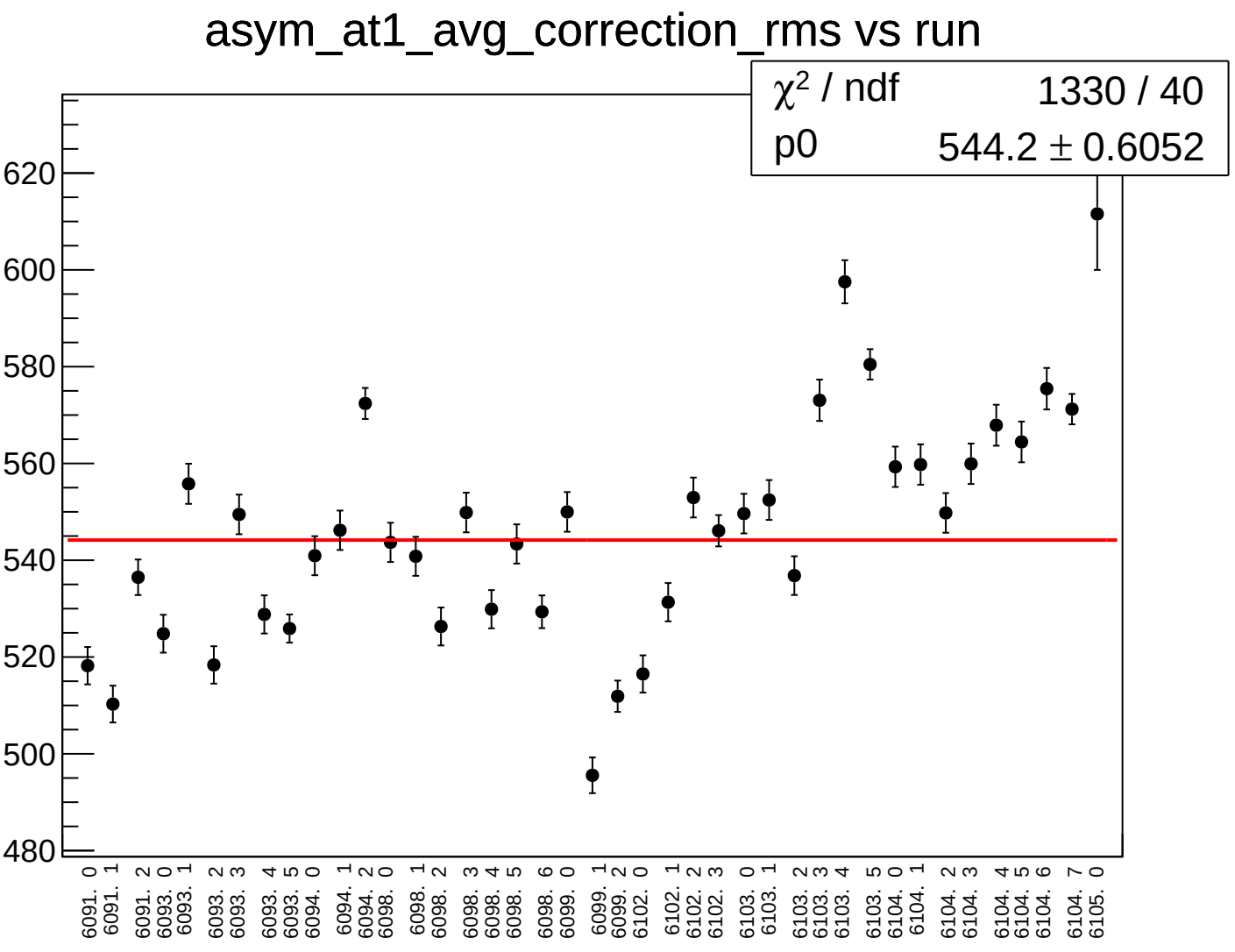

asym_usr_mean vs run
χ² / ndf 30.44 / 40
p0 1202 ± 3216
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 38.37
Std Dev 36.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.009634
Std Dev 0.8615
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

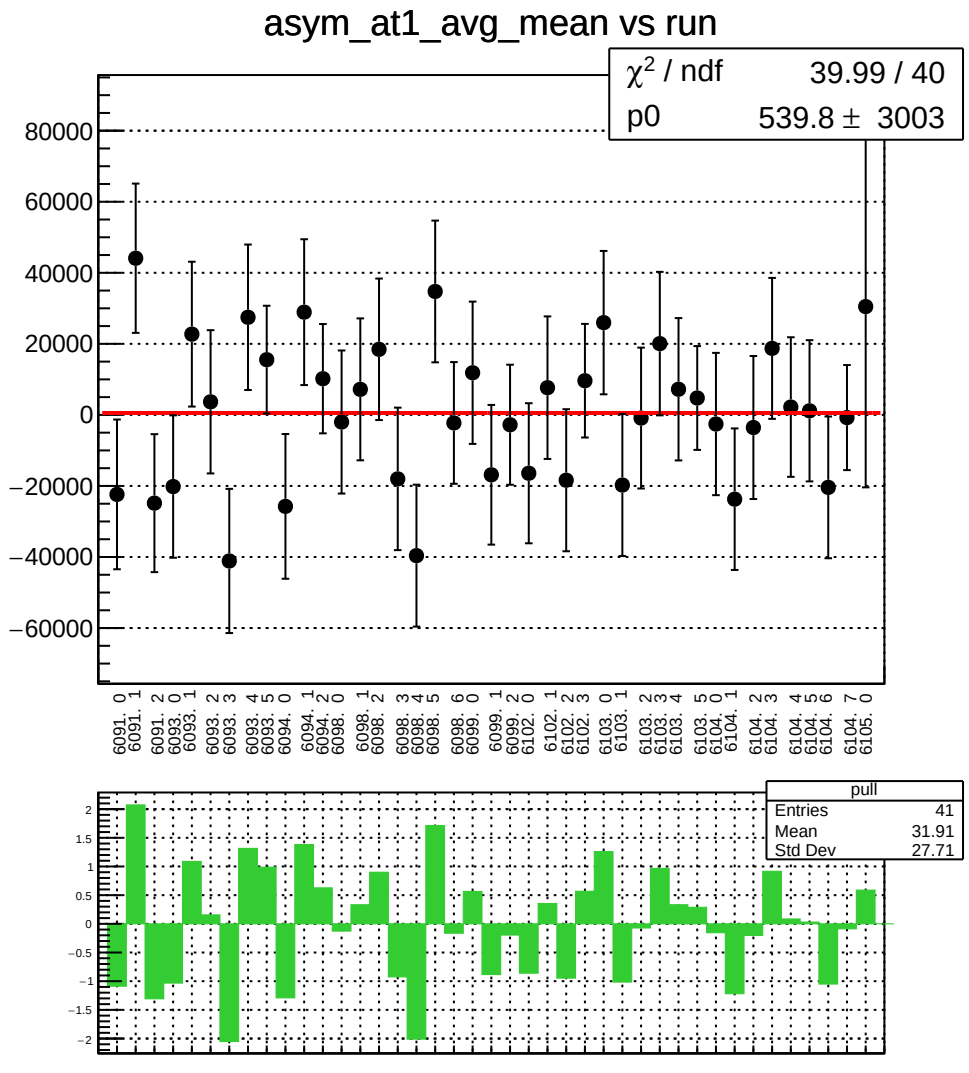

asym_usr_rms vs run
χ² / ndf 1256 / 40
p0 2045 ± 2.274
2500
2400
2300
2200
2100
2000
1900
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

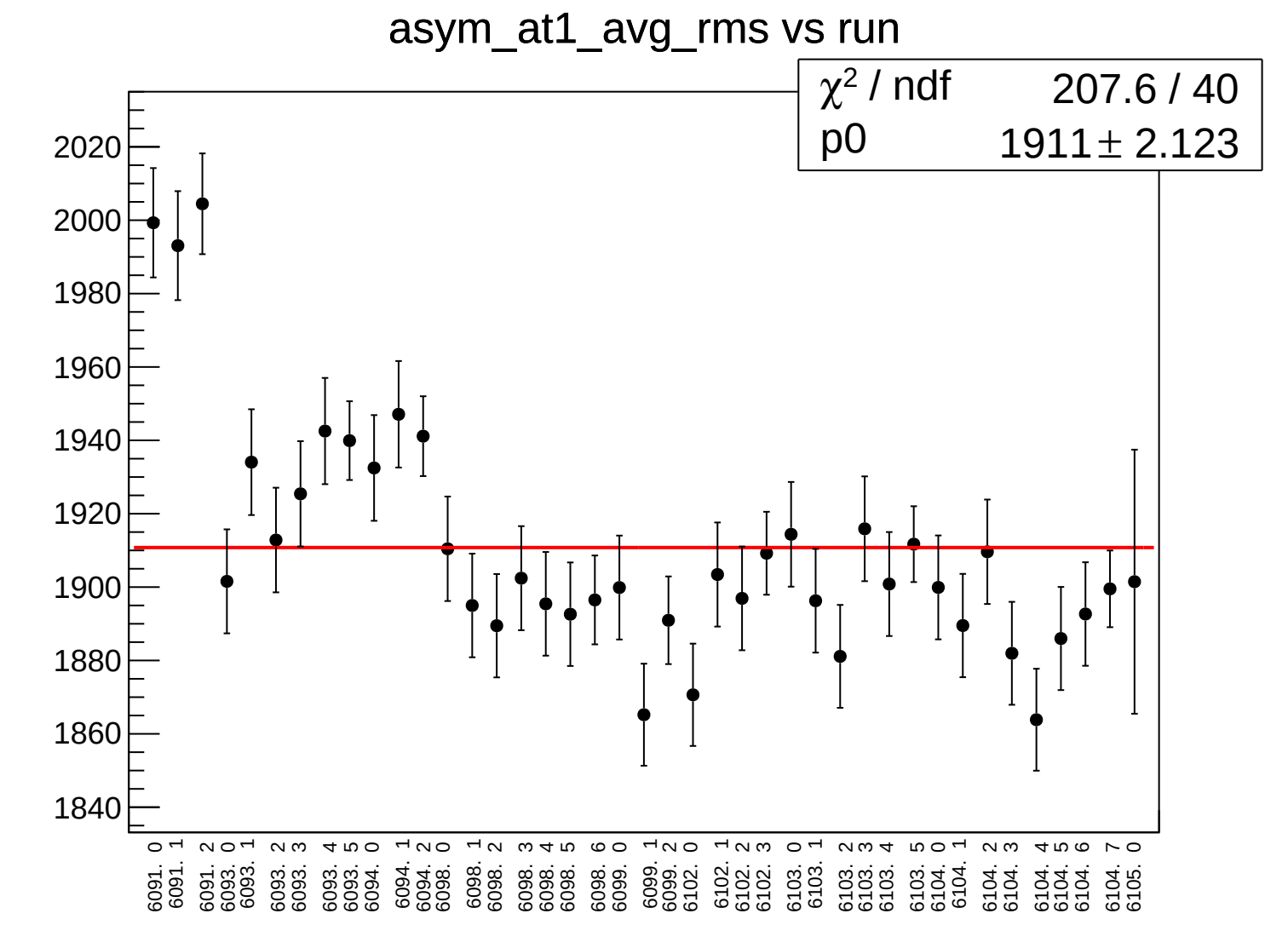

dit_asym_at1_avg_mean vs run
χ² / ndf 39.17 / 40
p0 1282 ± 2917
80000
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 49.26
Std Dev 9.44
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.006313
Std Dev 0.9774
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

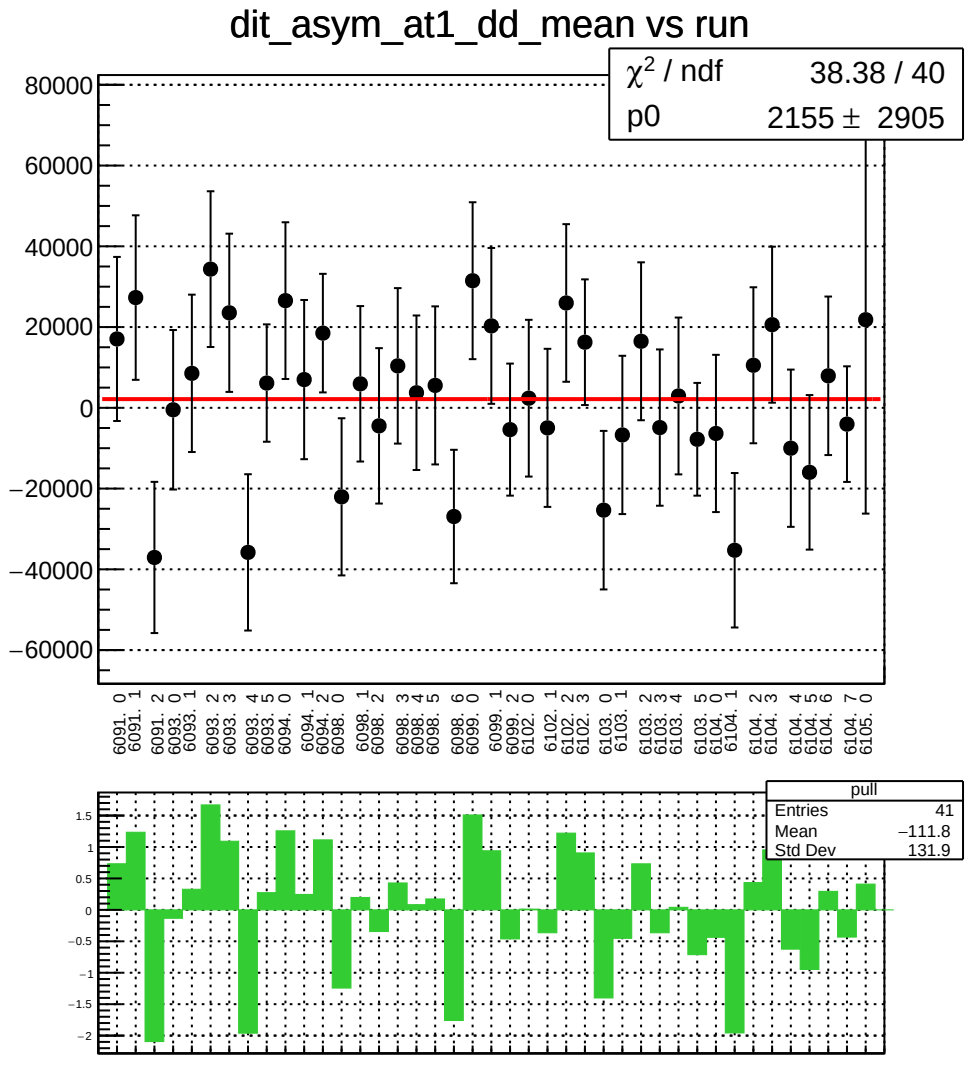

dit_asym_at1_avg_rms vs run
χ² / ndf 150.1 / 40
p0 1856 ± 2.062
1960
1940
1920
1900
1880
1860
1840
1820
1800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

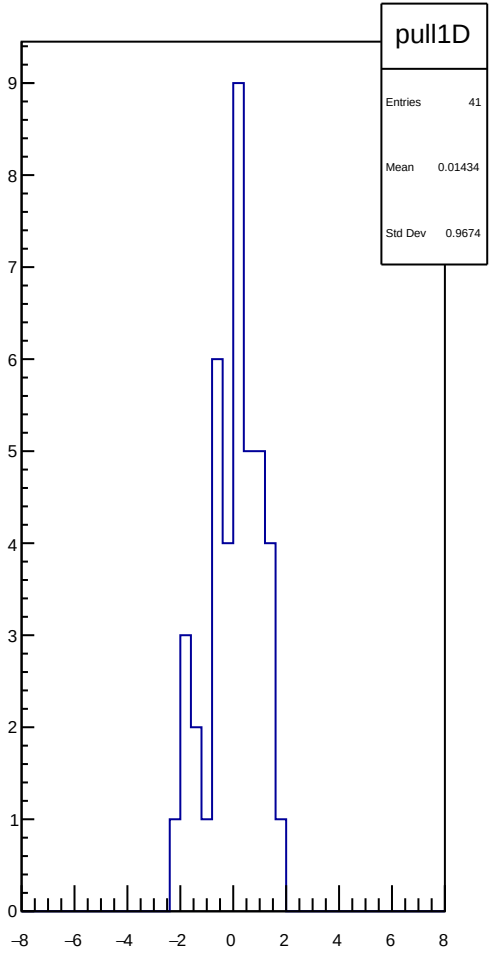

asym_at1_avg_correction_mean vs run
χ² / ndf 35.67 / 40
p0 699.8 ± 855.8
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 100.3
Std Dev 74.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.005077
Std Dev 0.9327
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

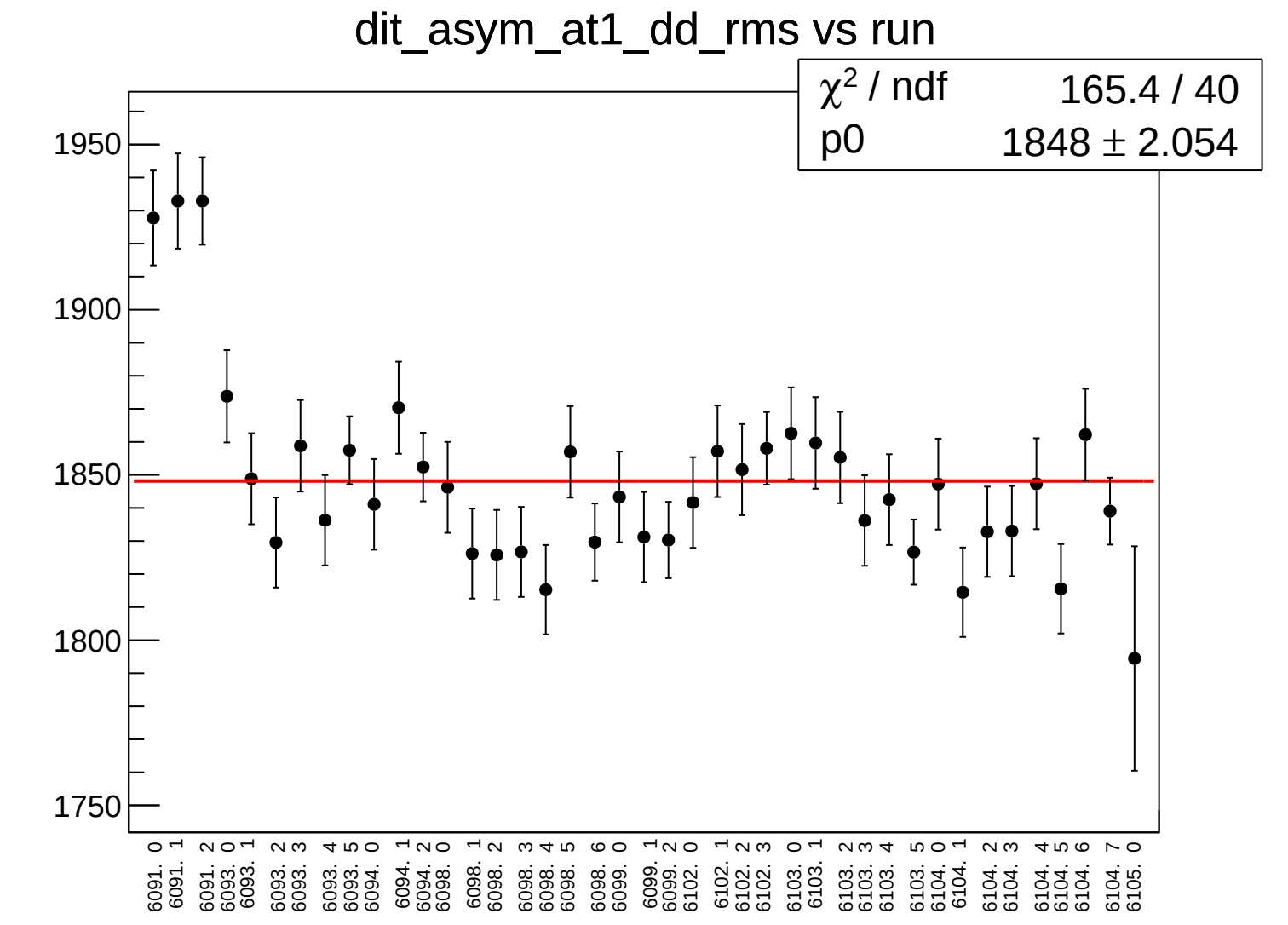

asym_at1_avg_correction_rms vs run
χ² / ndf 1330 / 40
p0 544.2 ± 0.6052
620
600
580
560
540
520
500
480
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

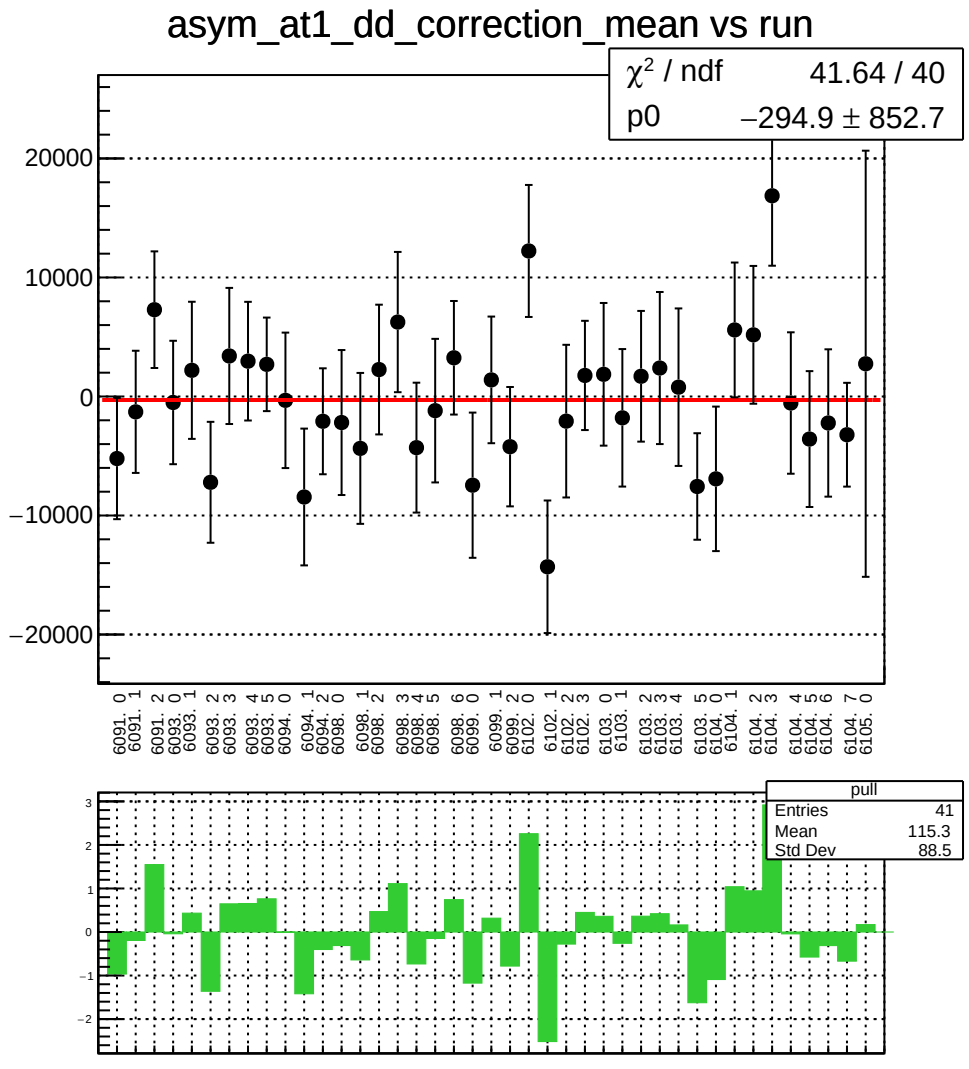

asym_at1_avg_mean vs run
χ² / ndf 39.99 / 40
p0 539.8 ± 3003
80000
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 31.91
Std Dev 27.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.003528
Std Dev 0.9876
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

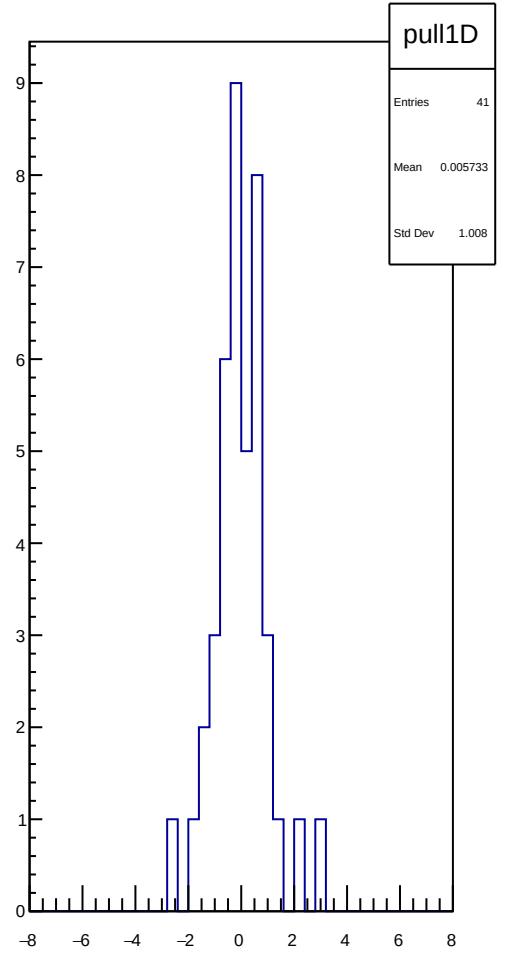

asym_at1_avg_rms vs run
χ² / ndf 207.6 / 40
p0 1911 ± 2.123
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

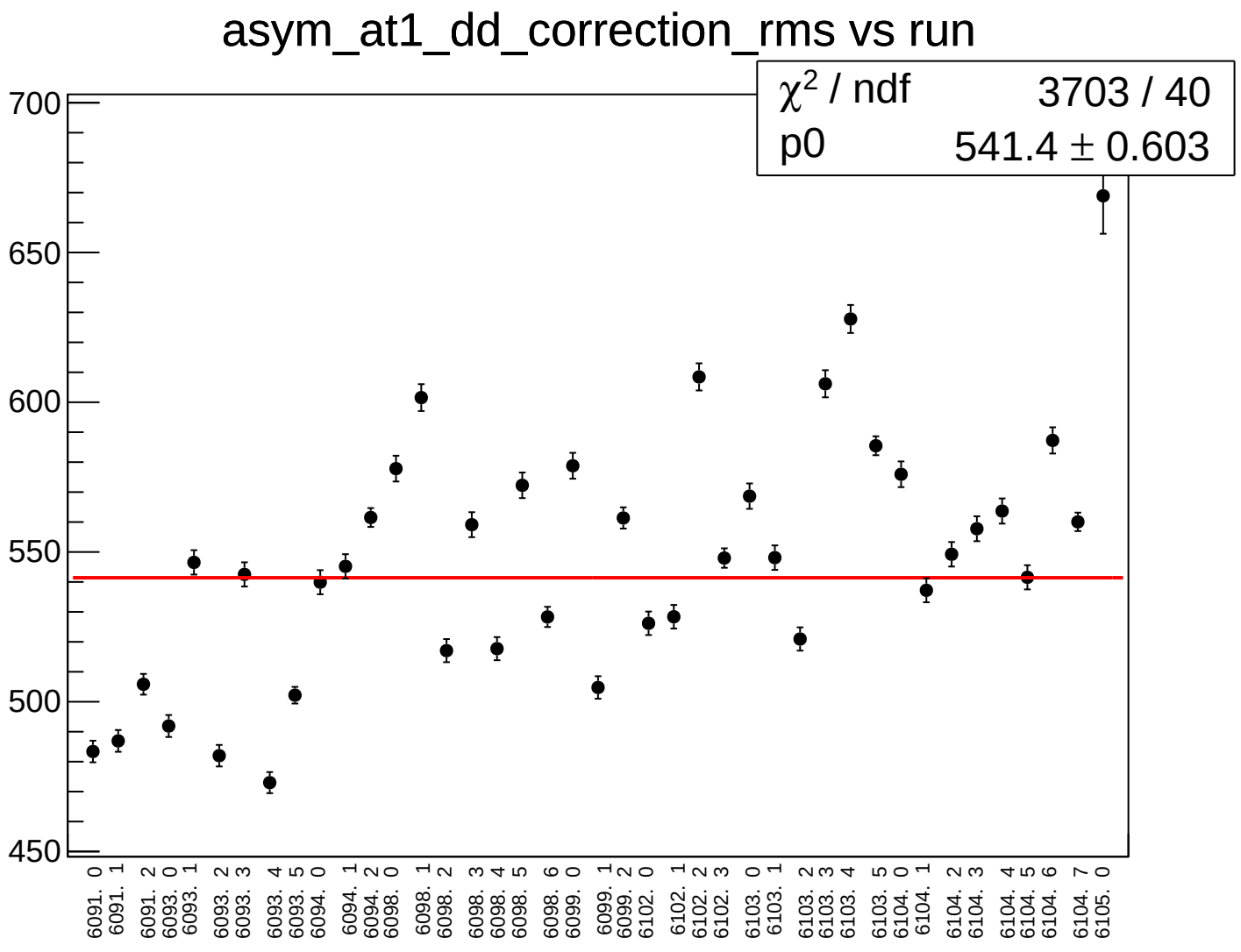

dit_asym_at1_dd_mean vs run
χ² / ndf 38.38 / 40
p0 2155 ± 2905
80000
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −111.8
Std Dev 131.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

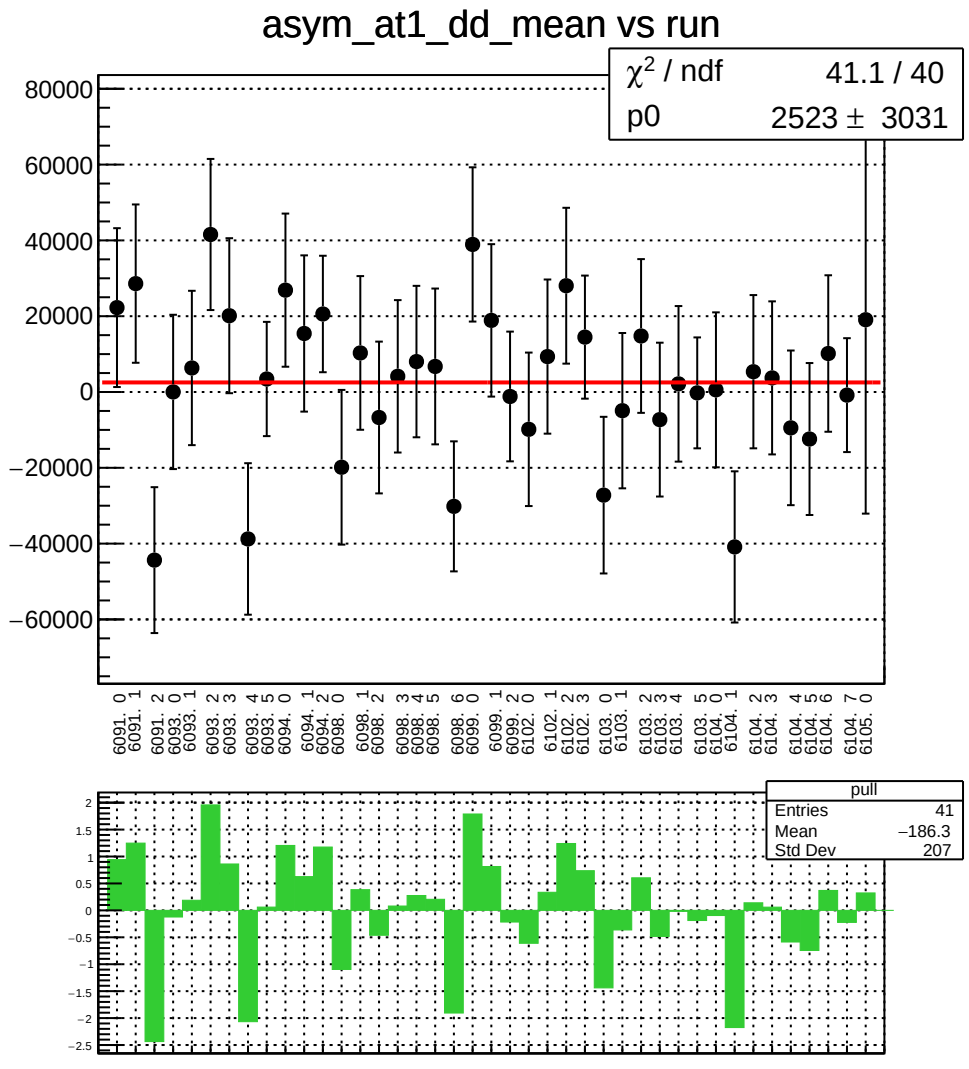

pull1D
Entries 41
Mean 0.01434
Std Dev 0.9674
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

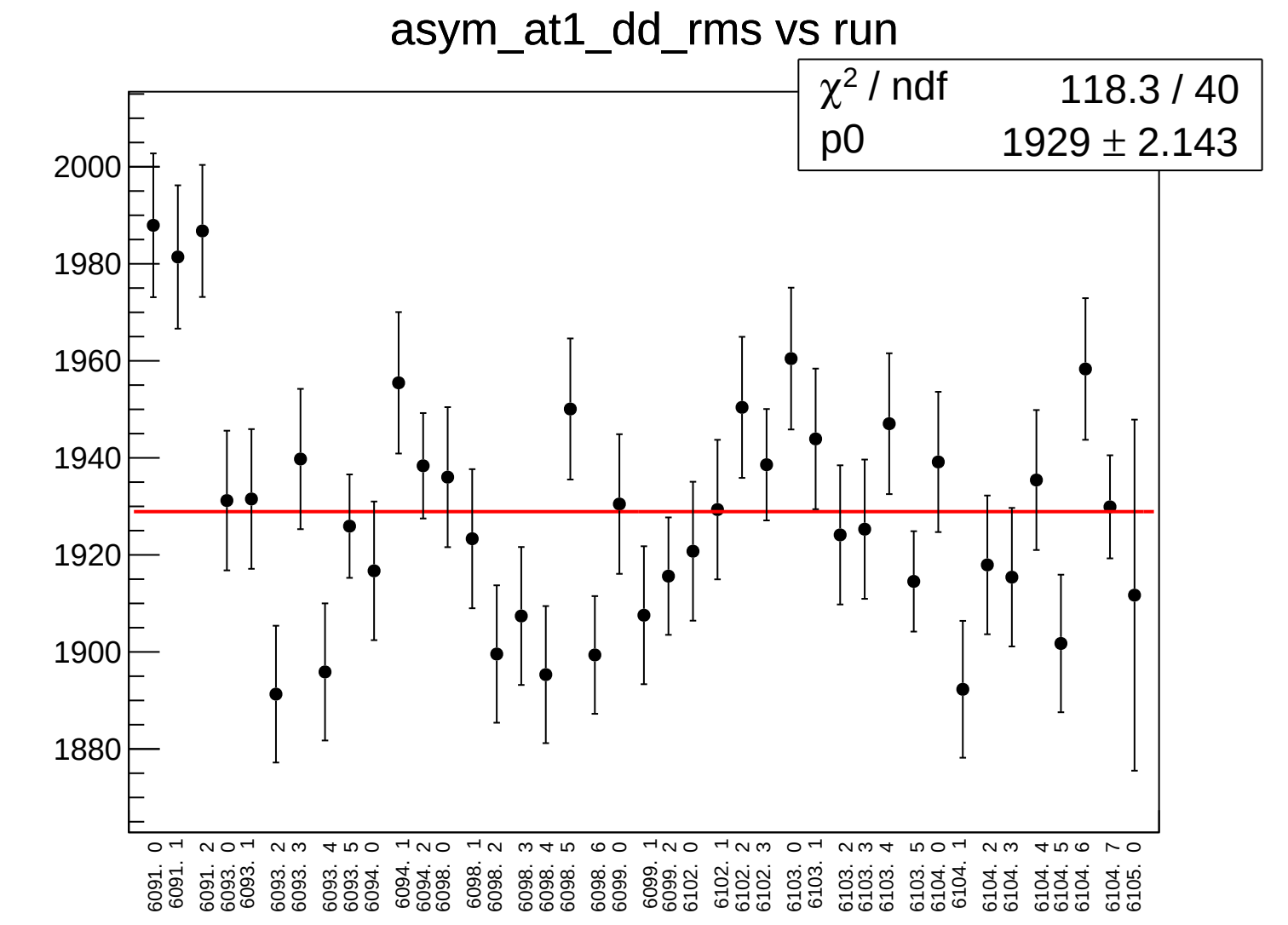

dit_asym_at1_dd_rms vs run
χ² / ndf 165.4 / 40
p0 1848 ± 2.054
1950
1900
1850
1800
1750
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

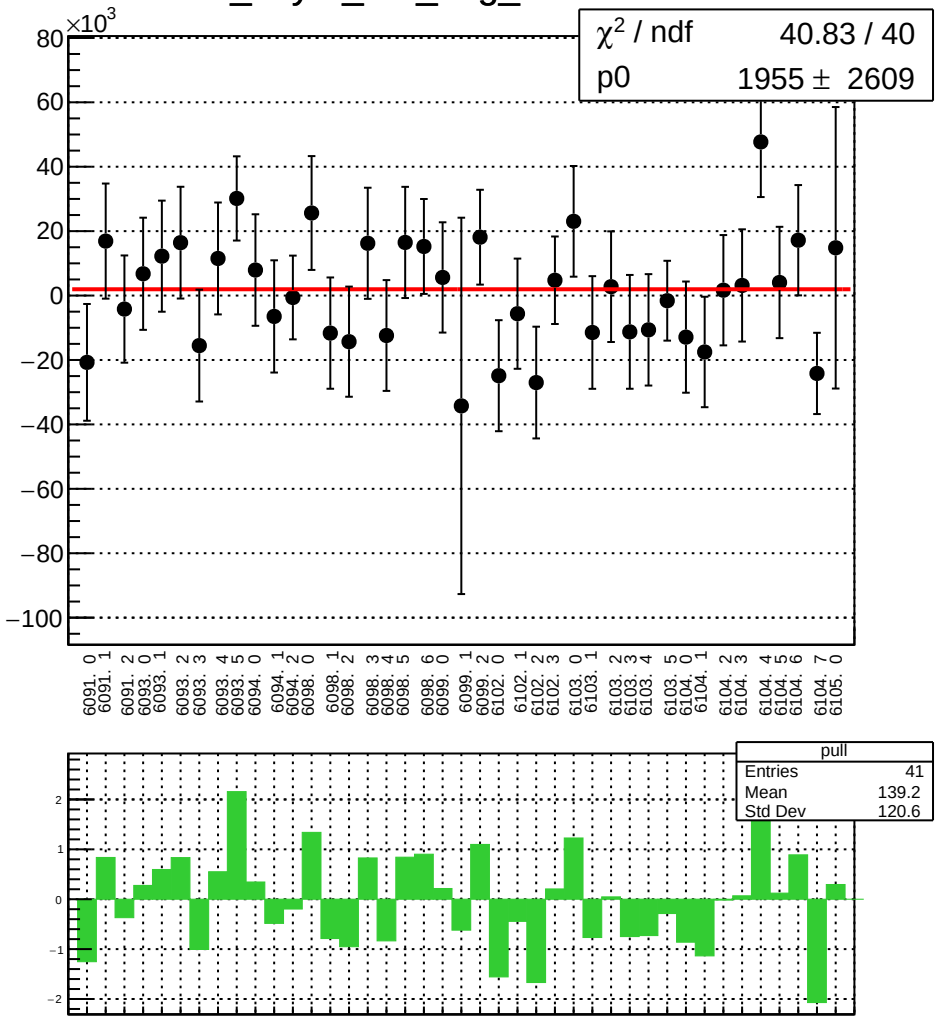

asym_at1_dd_correction_mean vs run
χ² / ndf 41.64 / 40
p0 −294.9 ± 852.7
20000
10000
0
−10000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 115.3
Std Dev 88.5
3
2
1
0
−1
−2

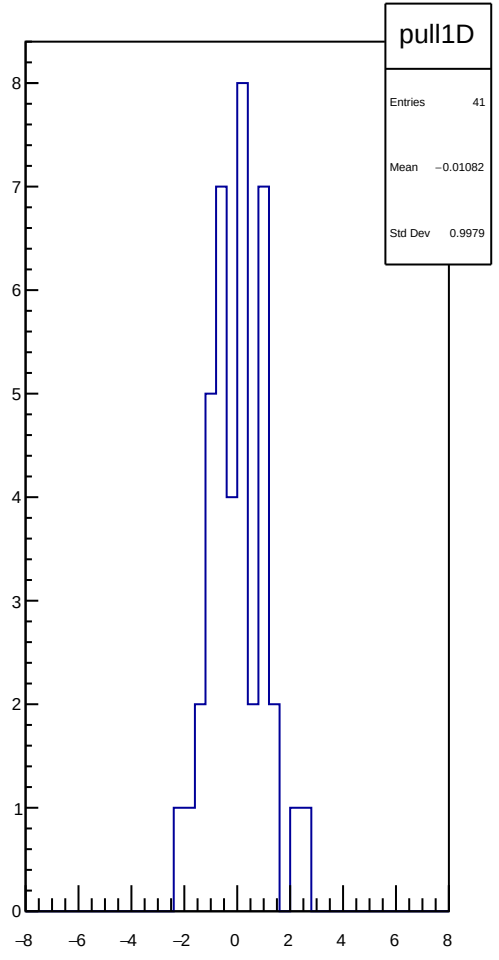

pull1D
Entries 41
Mean 0.005733
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

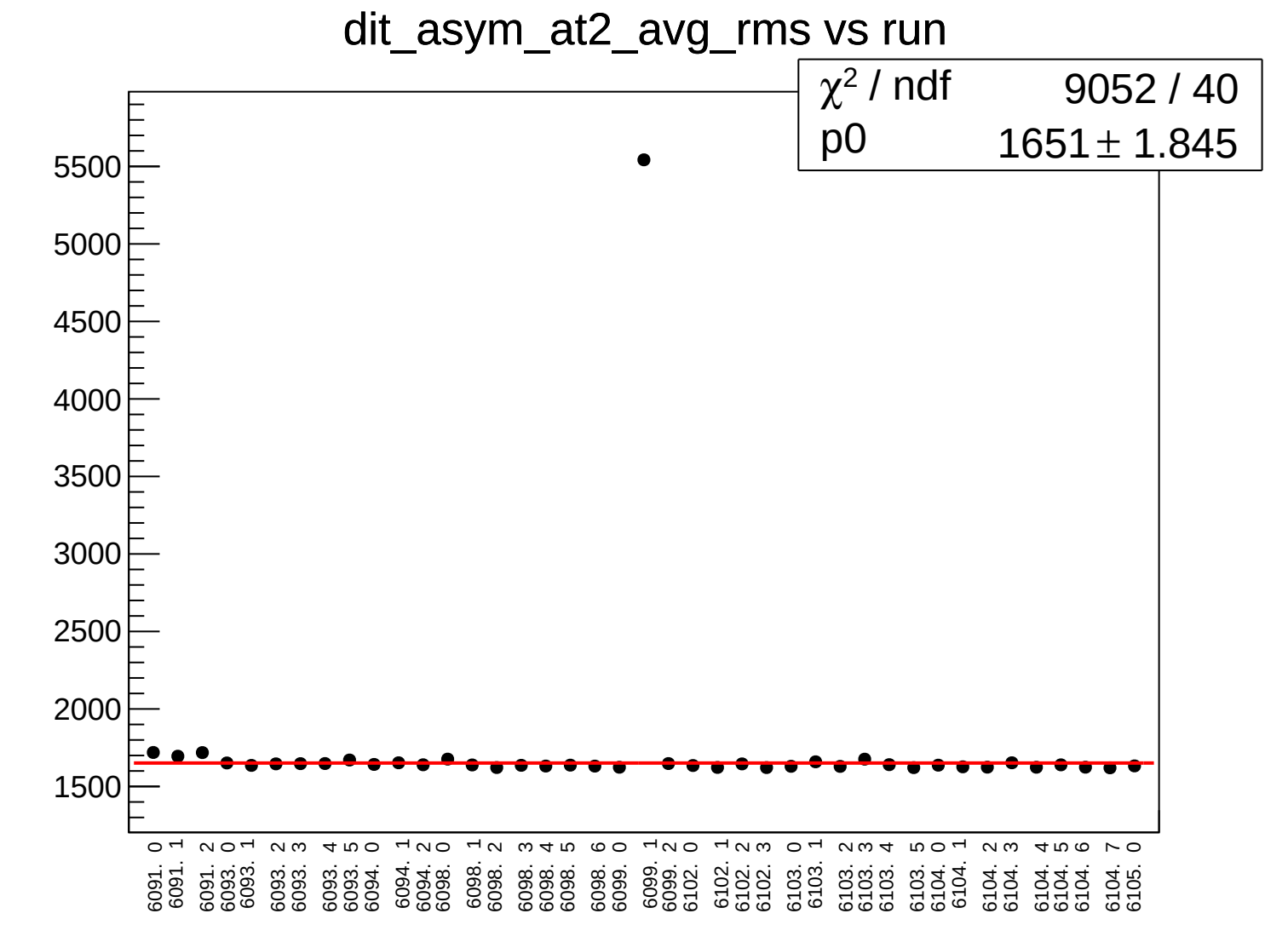

asym_at1_dd_correction_rms vs run
χ² / ndf 3703 / 40
p0 541.4 ± 0.603
700
650
600
550
500
450
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

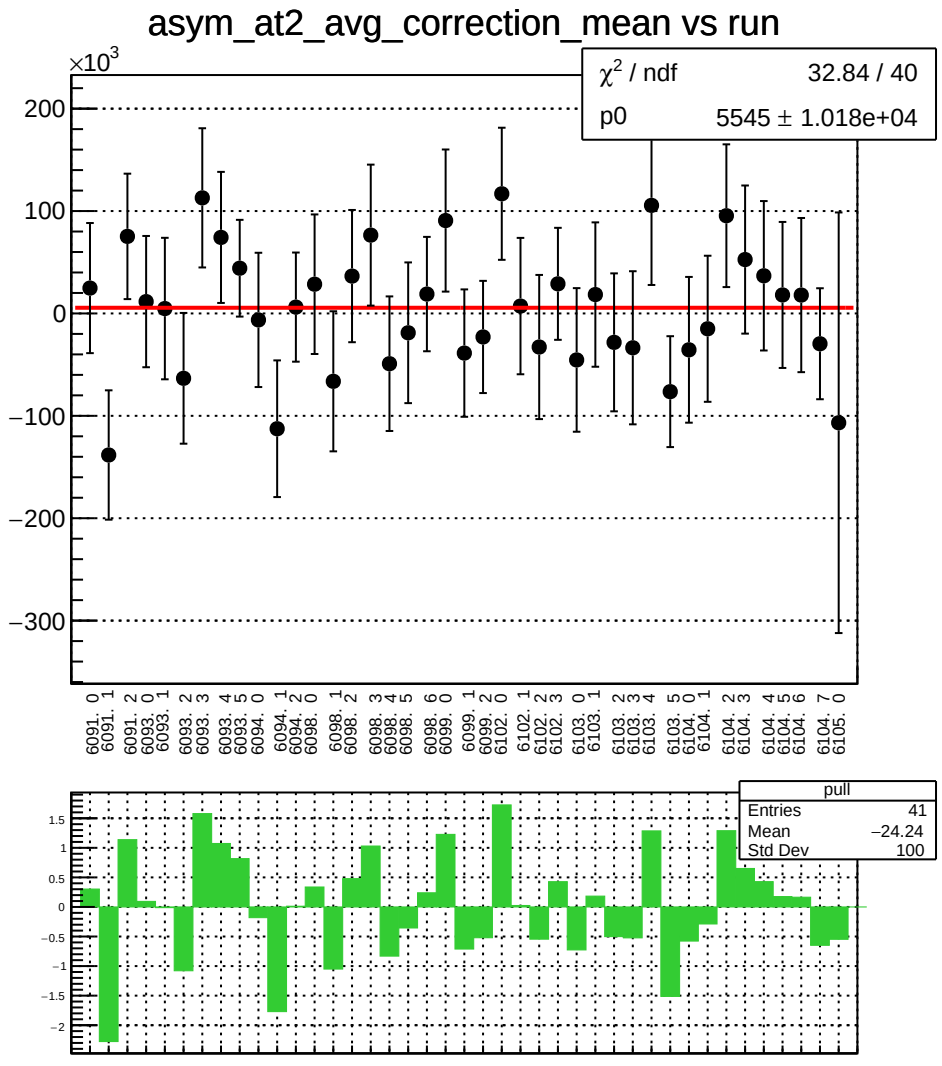

asym_at1_dd_mean vs run
χ^2 / ndf 41.1 / 40
p0 2523 ± 3031
80000
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −186.3
Std Dev 207
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.009519
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

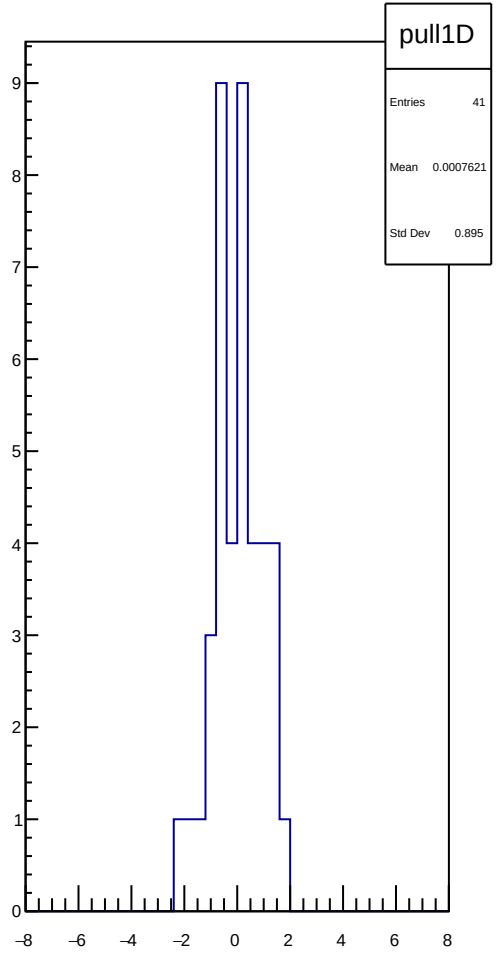

asym_at1_dd_rms vs run
χ² / ndf 118.3 / 40
p0 1929 ± 2.143
2000
1980
1960
1940
1920
1900
1880
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

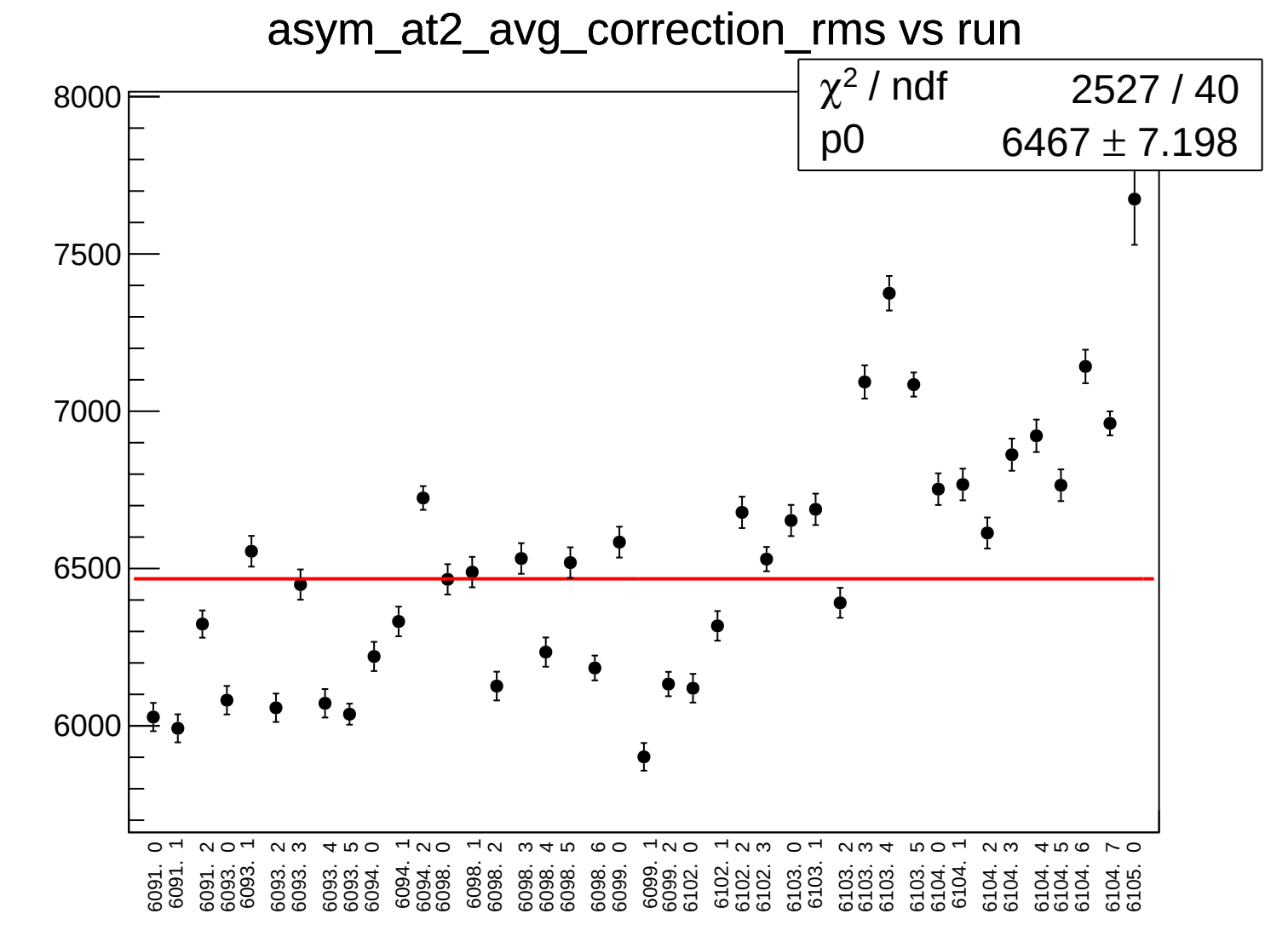

dit_asym_at2_avg_mean vs run
χ² / ndf 40.83 / 40
p0 1955 ± 2609
×10³
pull
Entries 41
Mean 139.2
Std Dev 120.6

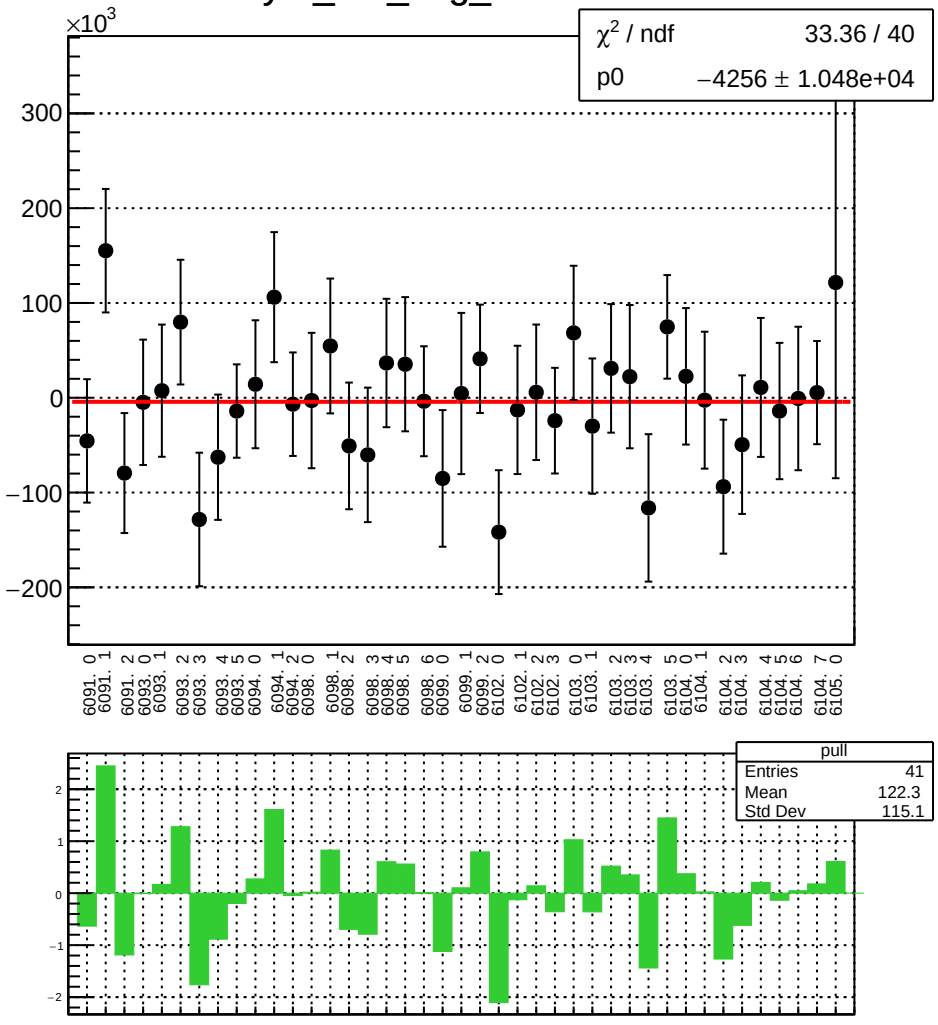

pull1D
Entries 41
Mean −0.01082
Std Dev 0.9979

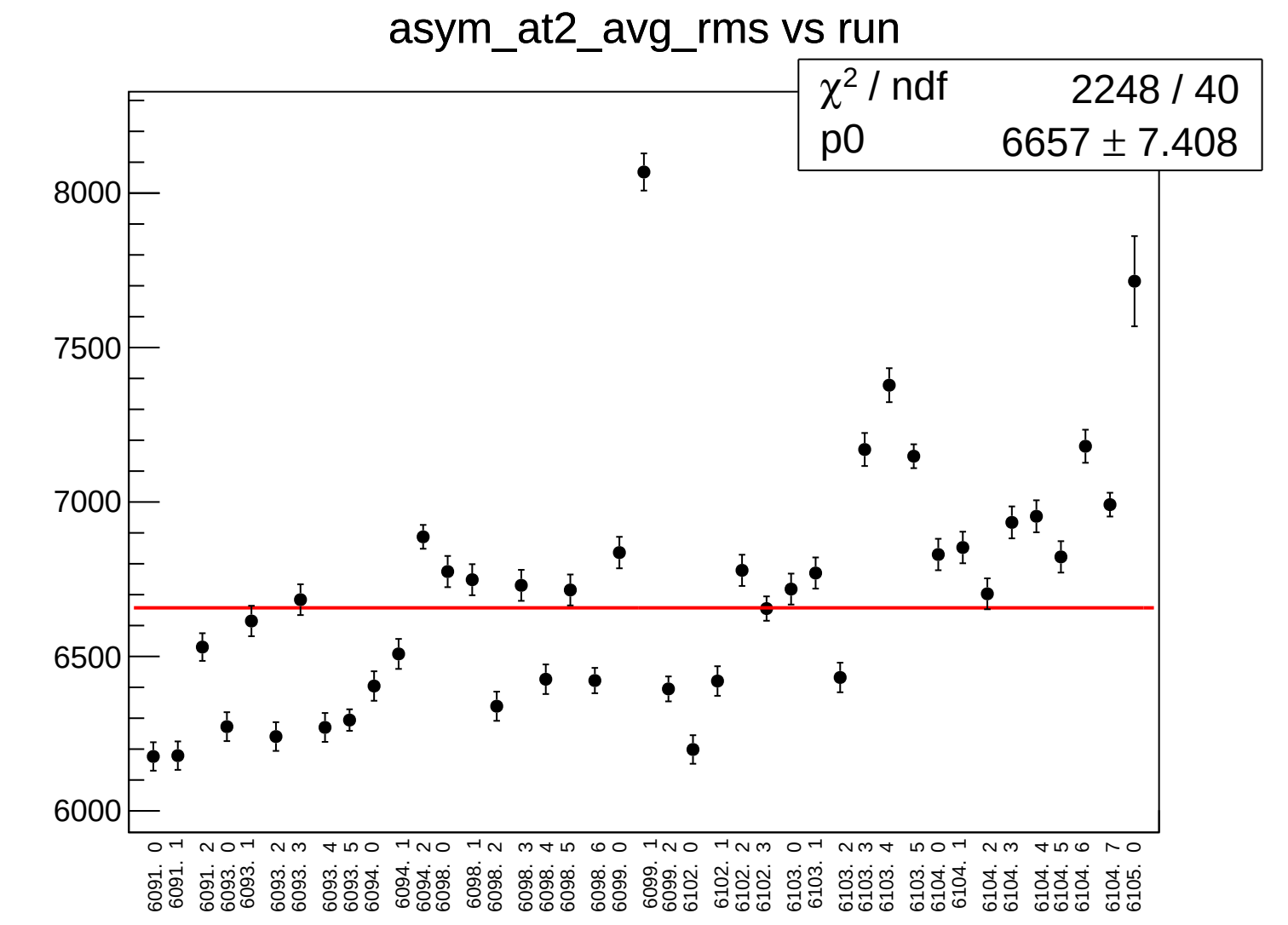

dit_asym_at2_avg_rms vs run
χ² / ndf 9052 / 40
p0 1651 ± 1.845
5500
5000
4500
4000
3500
3000
2500
2000
1500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

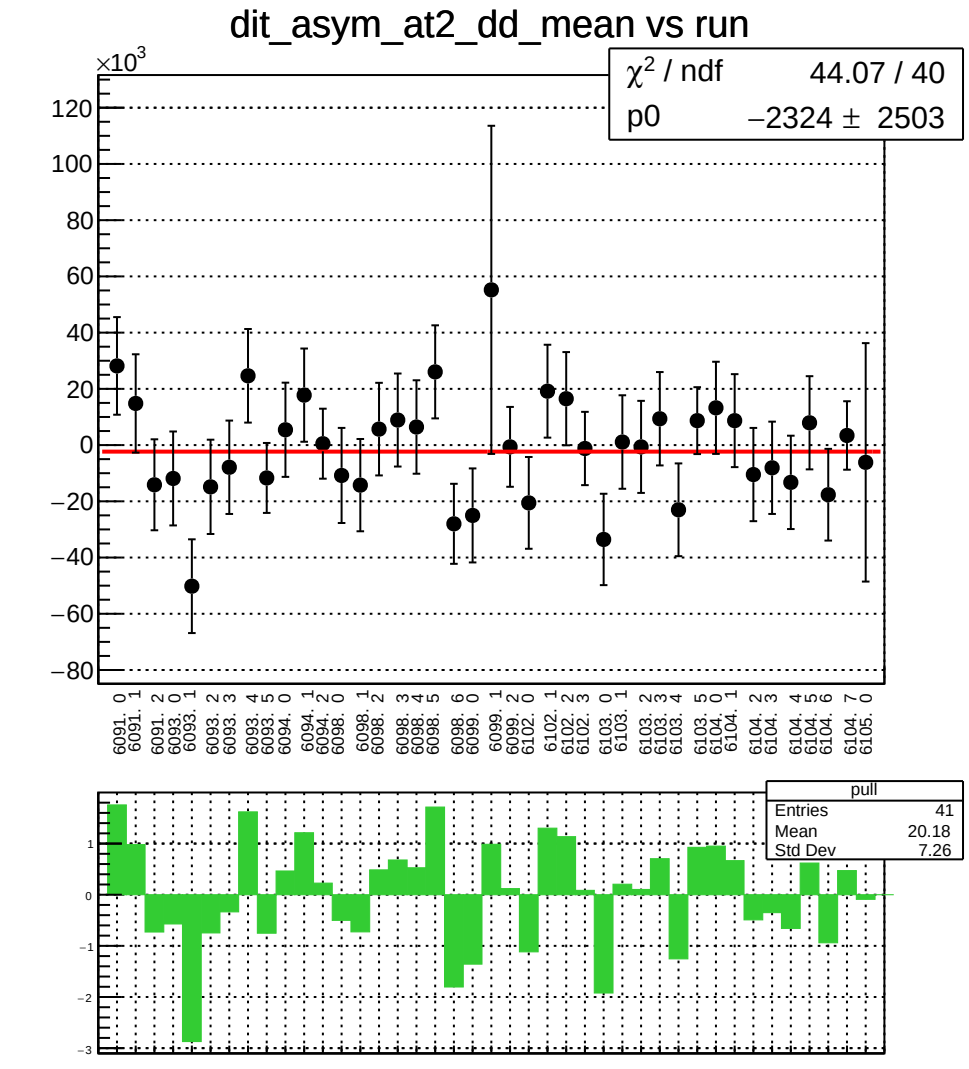

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 32.84 / 40
p0 5545 ± 1.018e+04
200
100
0
−100
−200
−300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −24.24
Std Dev 100
1.5
1
0.5
0
−0.5
−1
−1.5
−2

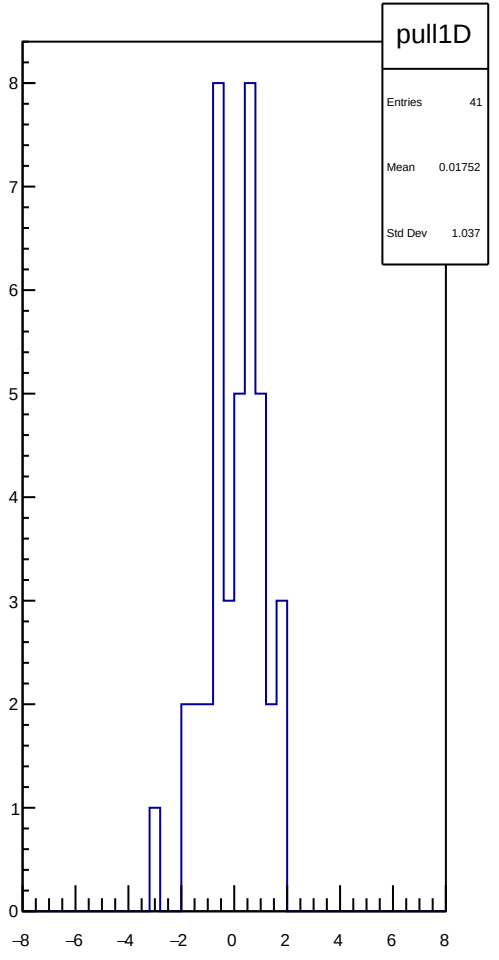

pull1D
Entries 41
Mean 0.0007621
Std Dev 0.895
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

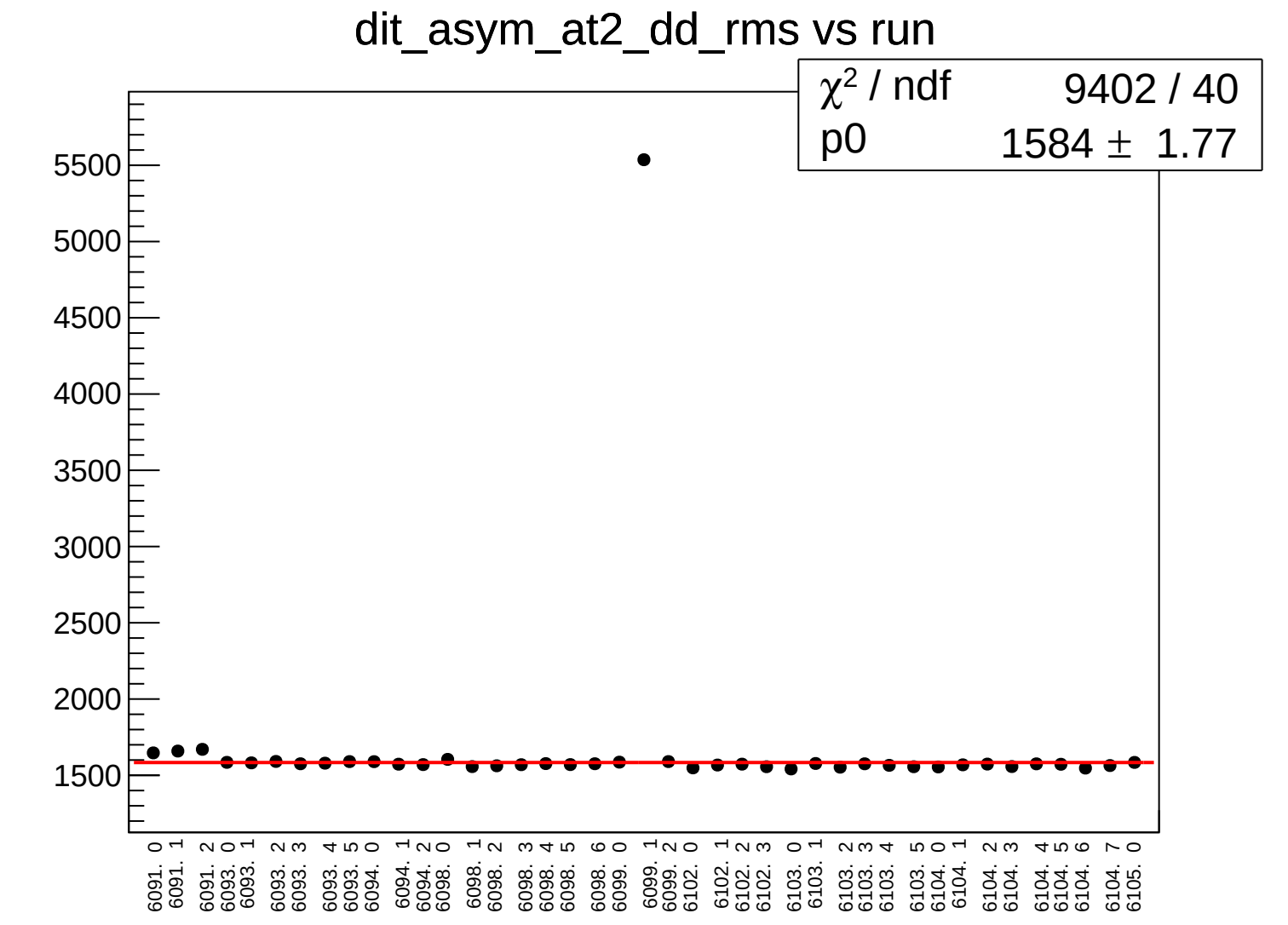

asym_at2_avg_correction_rms vs run
χ² / ndf 2527 / 40
p0 6467 ± 7.198
8000
7500
7000
6500
6000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

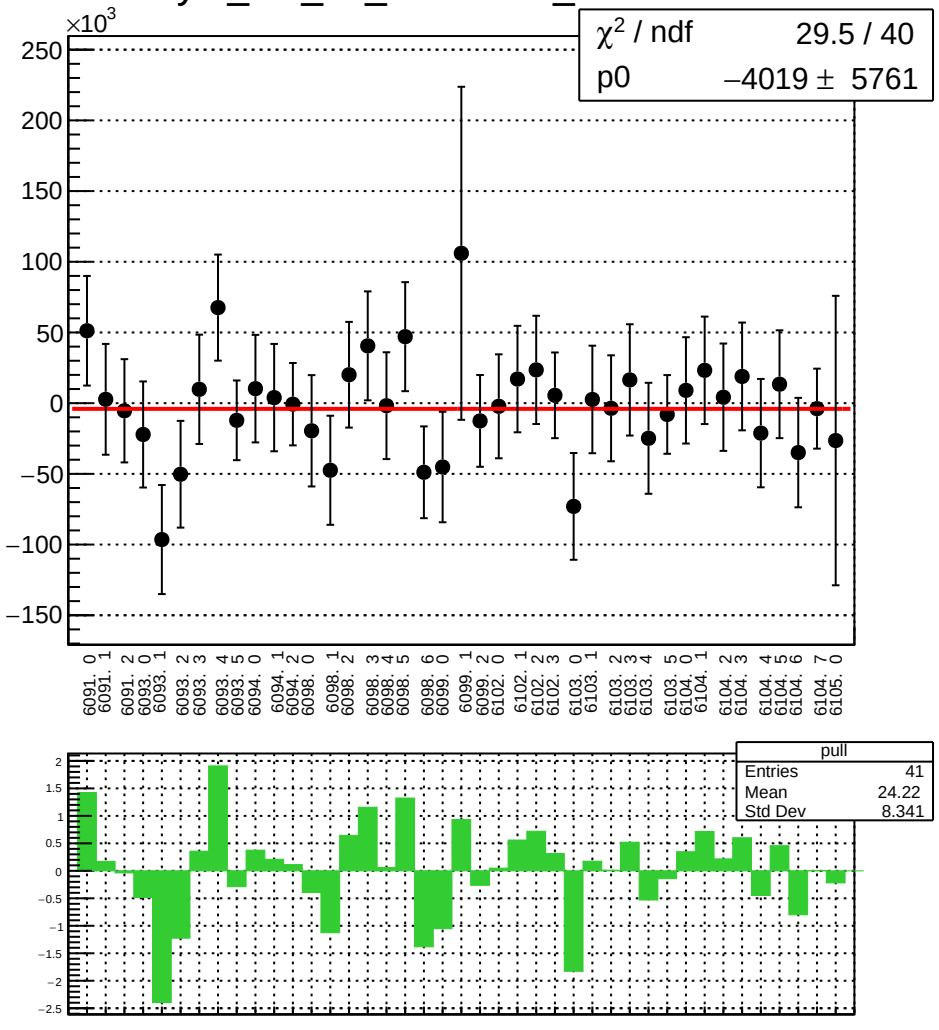

asym_at2_avg_mean vs run
×10^3
χ² / ndf 33.36 / 40
p0 −4256 ± 1.048e+04
300
200
100
0
−100
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 122.3
Std Dev 115.1
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.002985
Std Dev 0.902
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

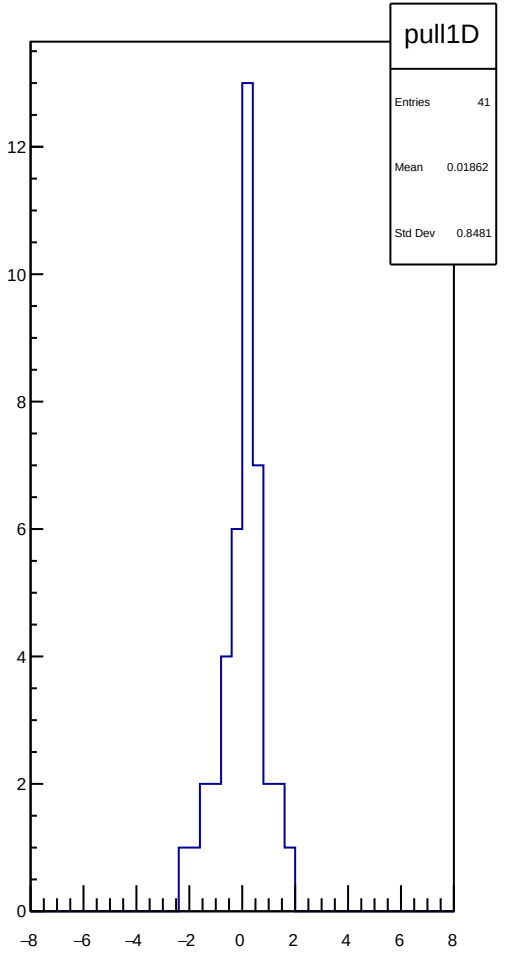

asym_at2_avg_rms vs run
χ² / ndf 2248 / 40
p0 6657 ± 7.408
8000
7500
7000
6500
6000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

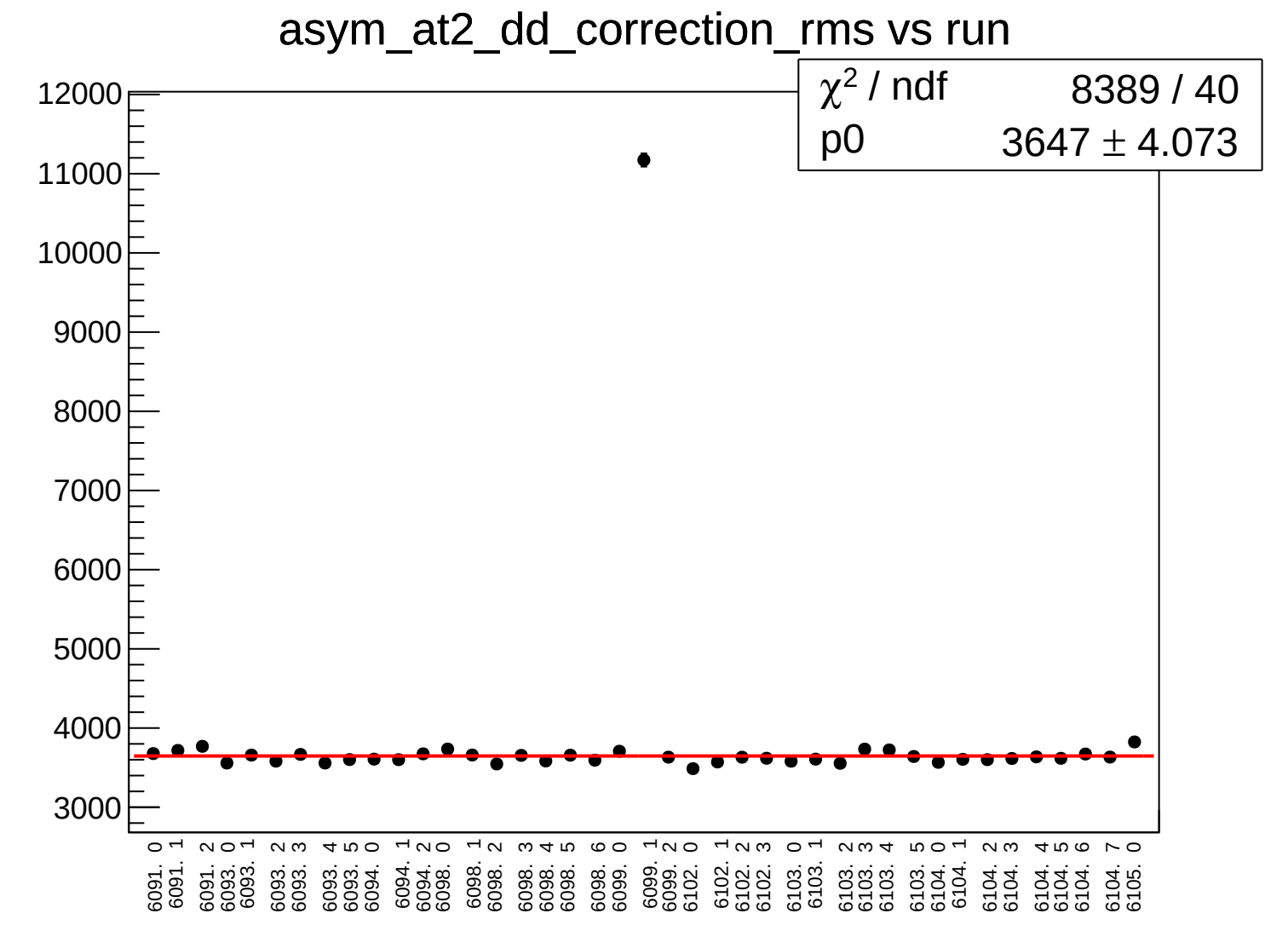

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 44.07 / 40
p0 −2324 ± 2503
120
100
80
60
40
20
0
−20
−40
−60
−80
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 20.18
Std Dev 7.26
1
0
−1
−2
−3

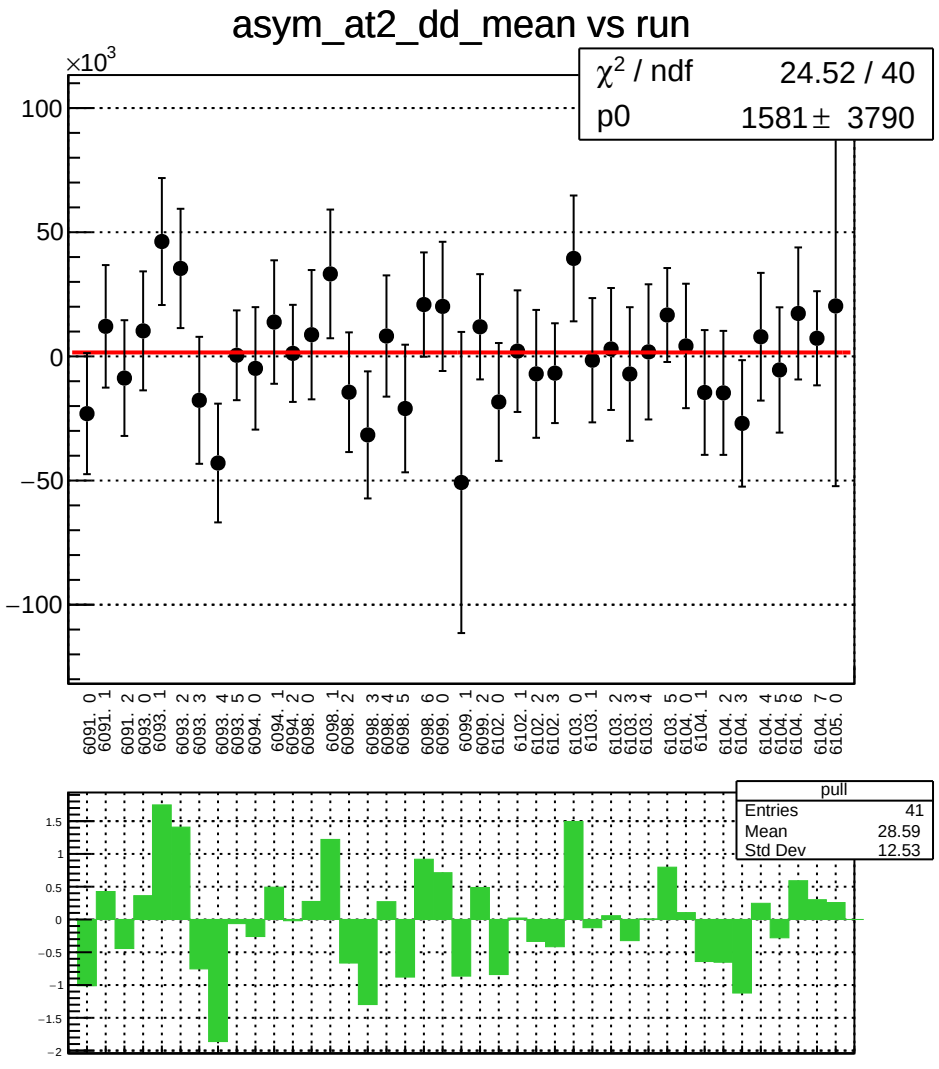

pull1D
Entries 41
Mean 0.01752
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

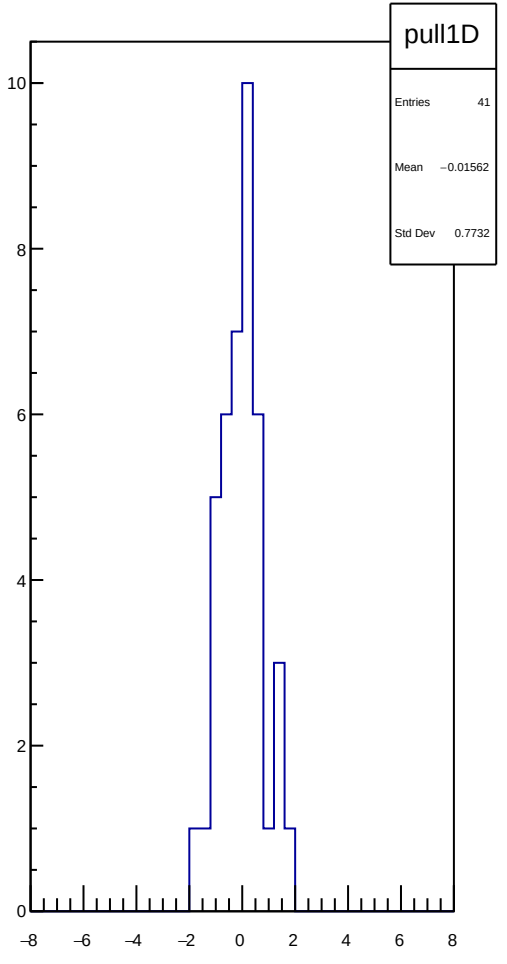

dit_asym_at2_dd_rms vs run
χ² / ndf 9402 / 40
p0 1584 ± 1.77
5500
5000
4500
4000
3500
3000
2500
2000
1500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

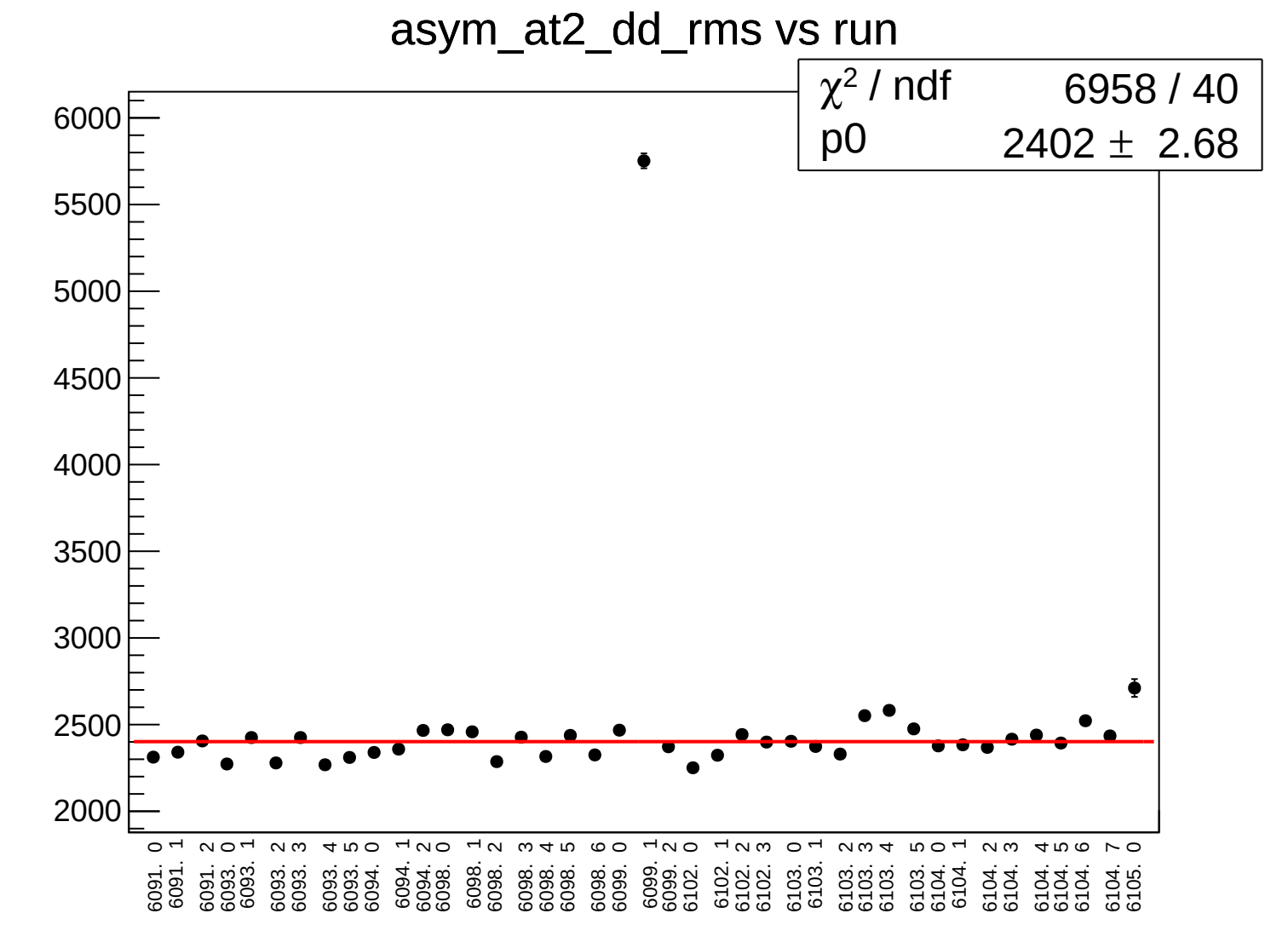

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 29.5 / 40
p0 −4019 ± 5761
pull
Entries 41
Mean 24.22
Std Dev 8.341

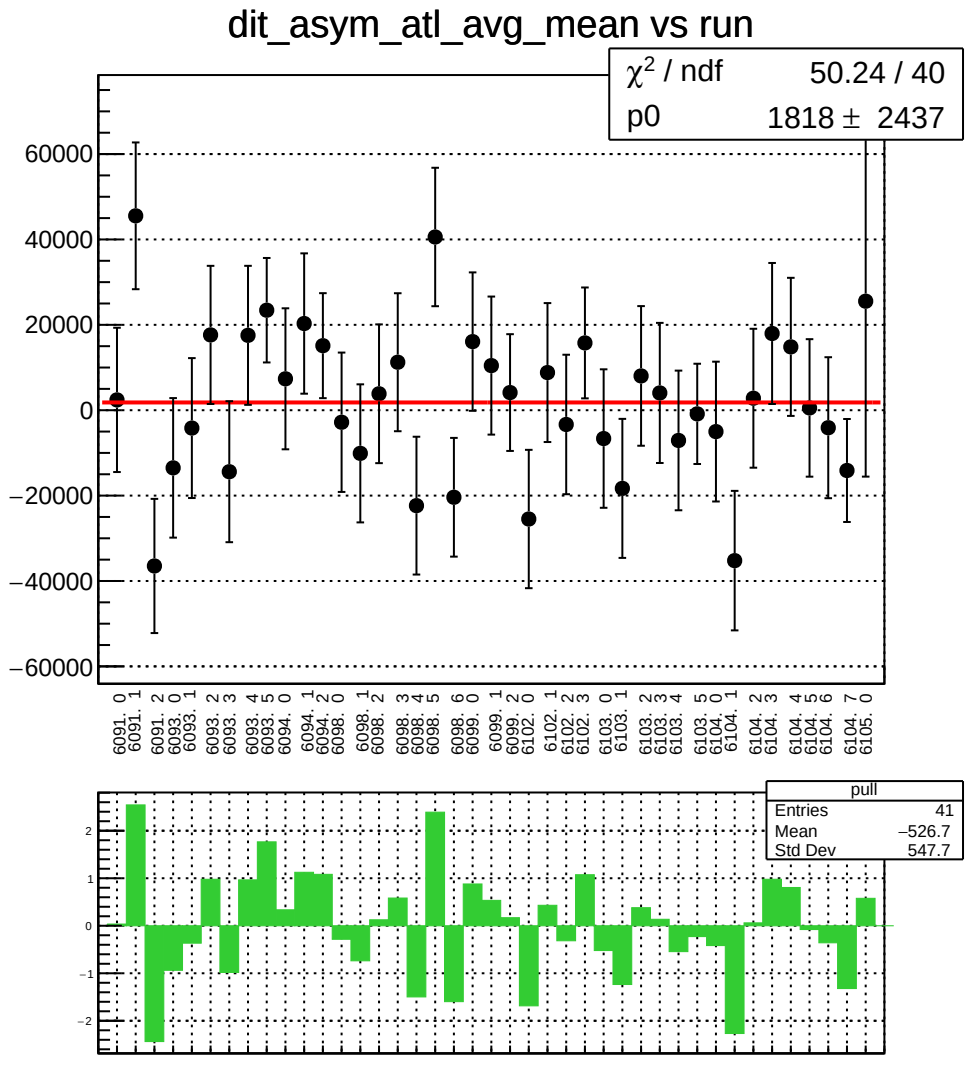

pull1D
Entries 41
Mean 0.01862
Std Dev 0.8481

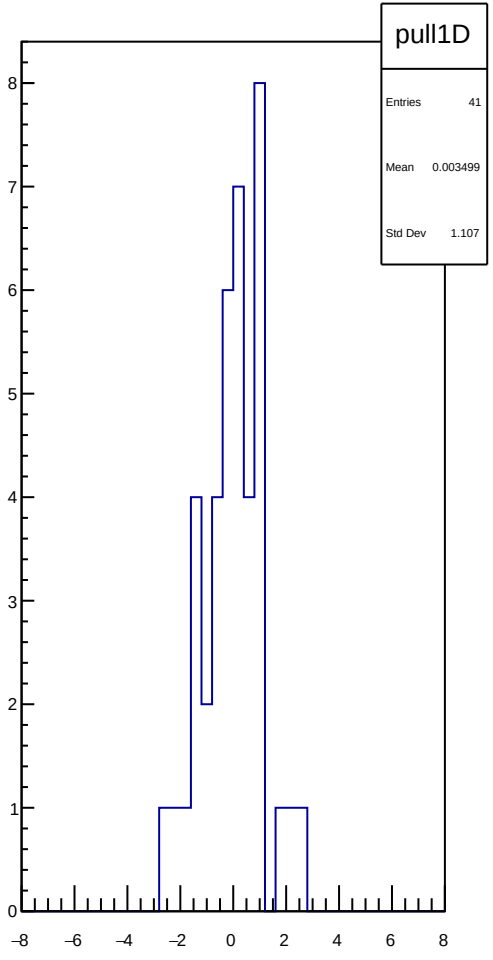

asym_at2_dd_correction_rms vs run
χ² / ndf 8389 / 40
p0 3647 ± 4.073
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

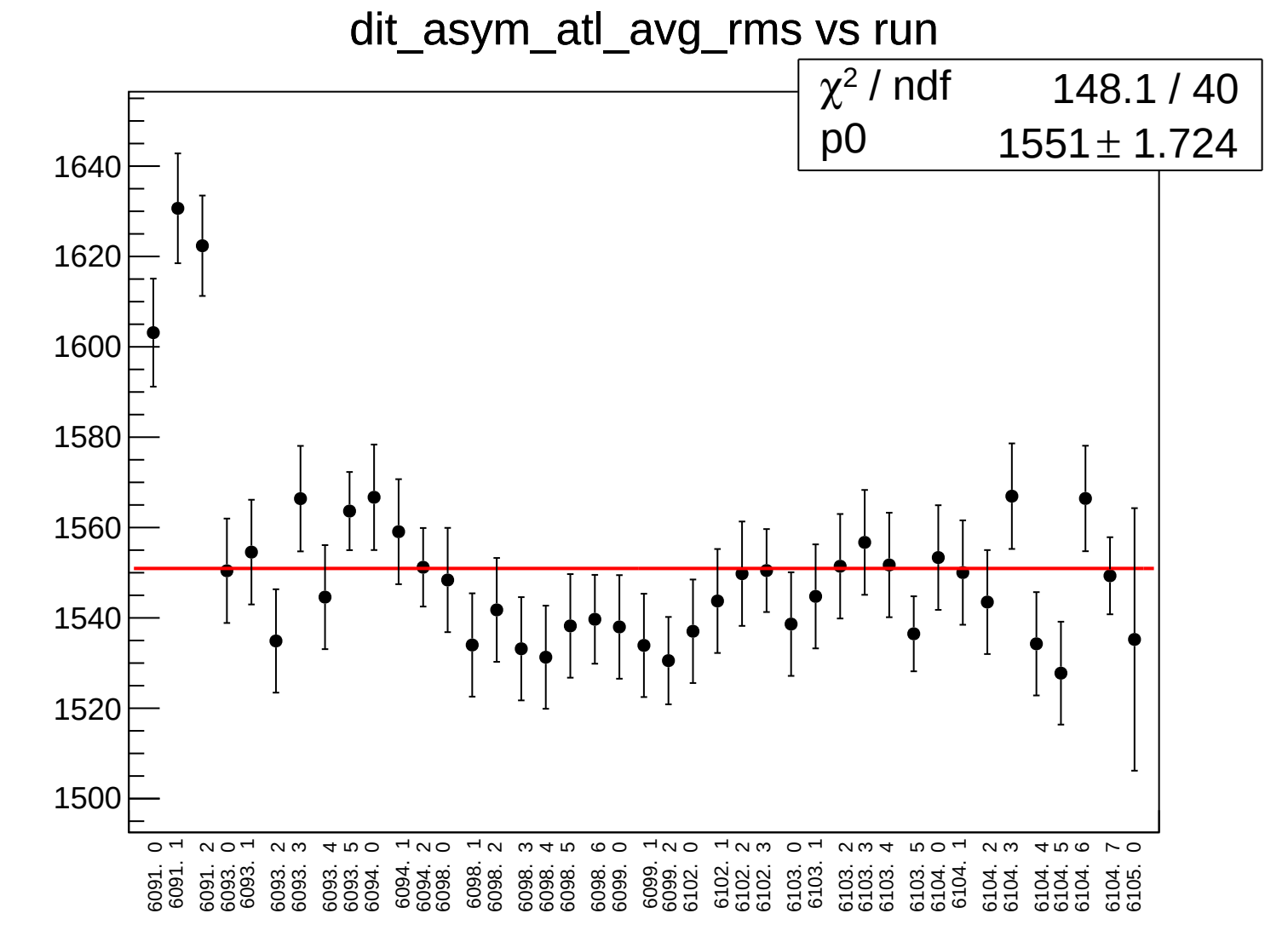

asym_at2_dd_mean vs run
×10^3
χ² / ndf 24.52 / 40
p0 1581 ± 3790
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 28.59
Std Dev 12.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2

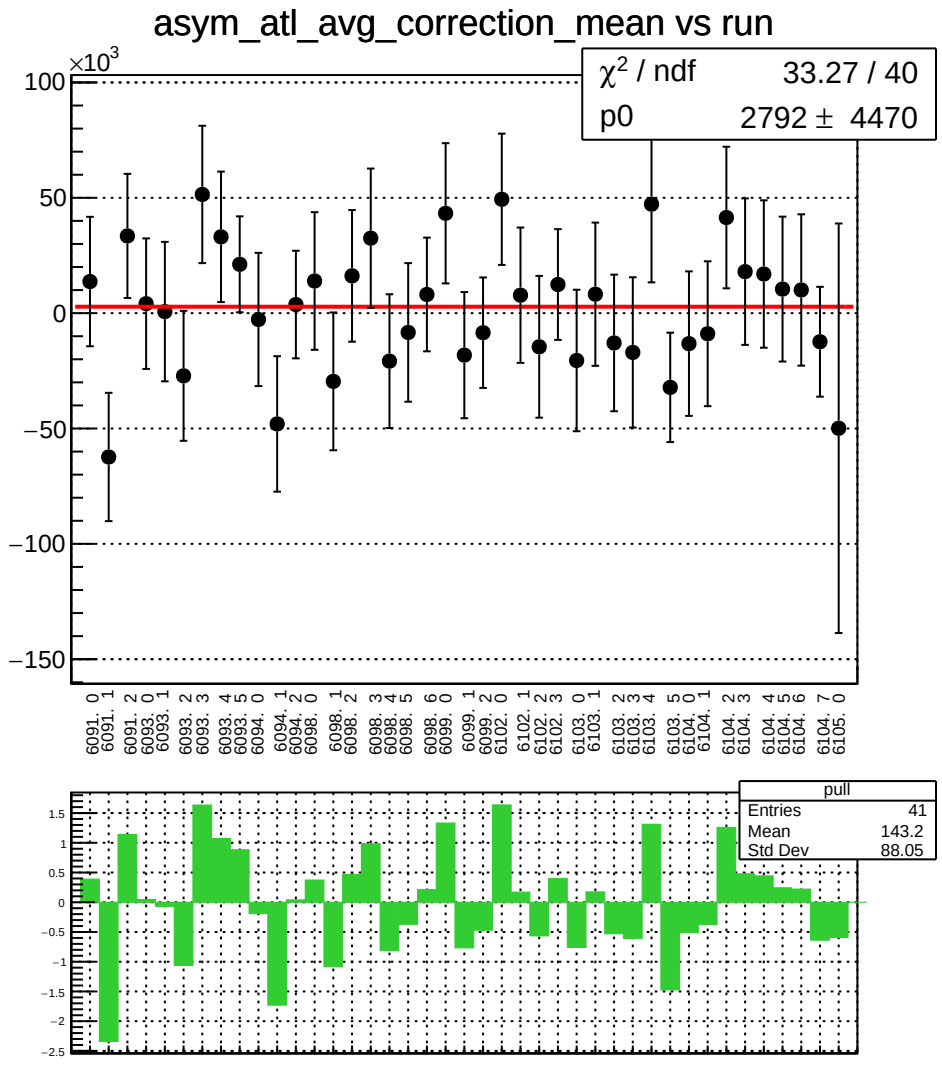

pull1D
Entries 41
Mean −0.01562
Std Dev 0.7732
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

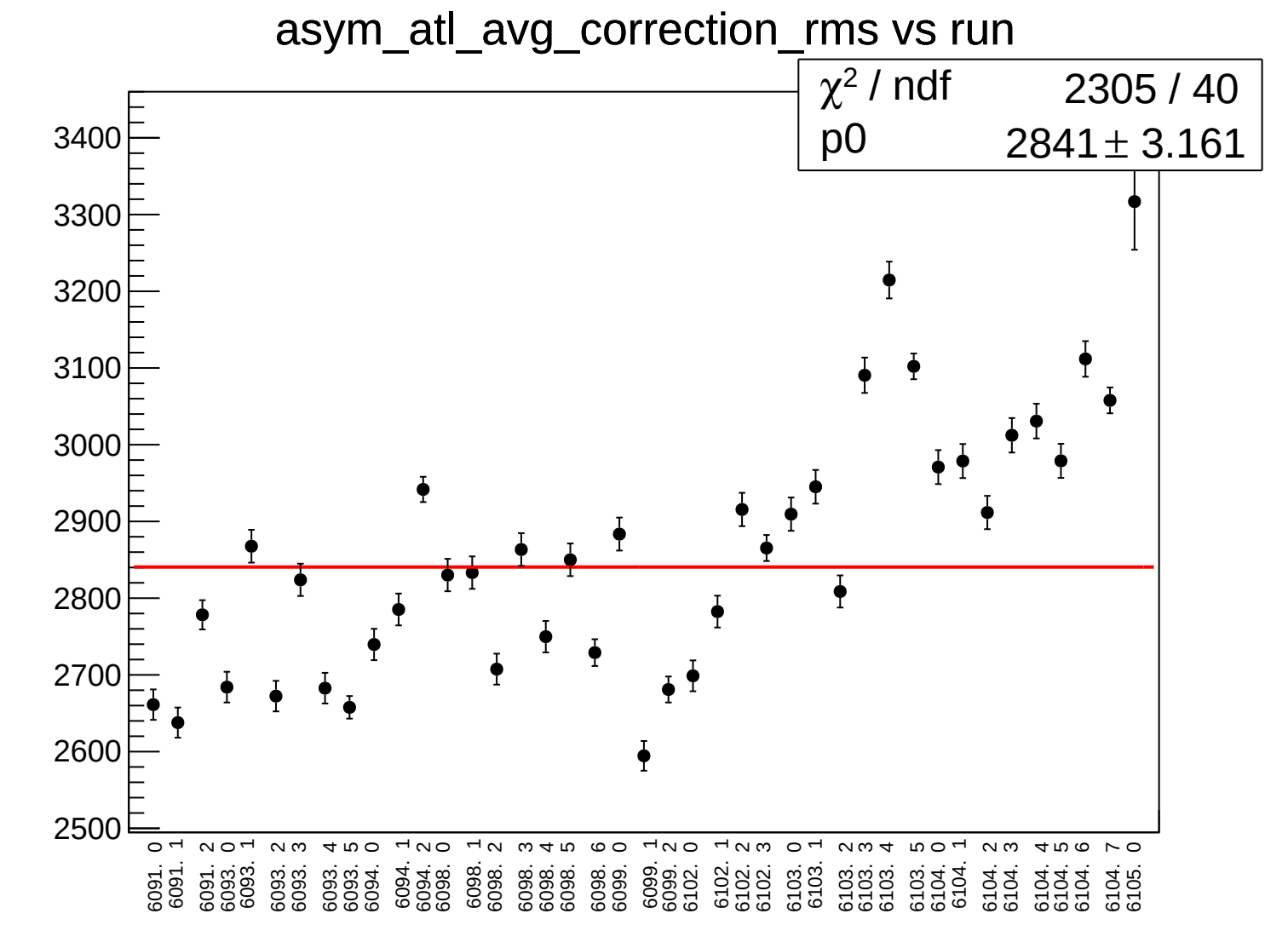

asym_at2_dd_rms vs run
χ² / ndf 6958 / 40
p0 2402 ± 2.68
6000
5500
5000
4500
4000
3500
3000
2500
2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

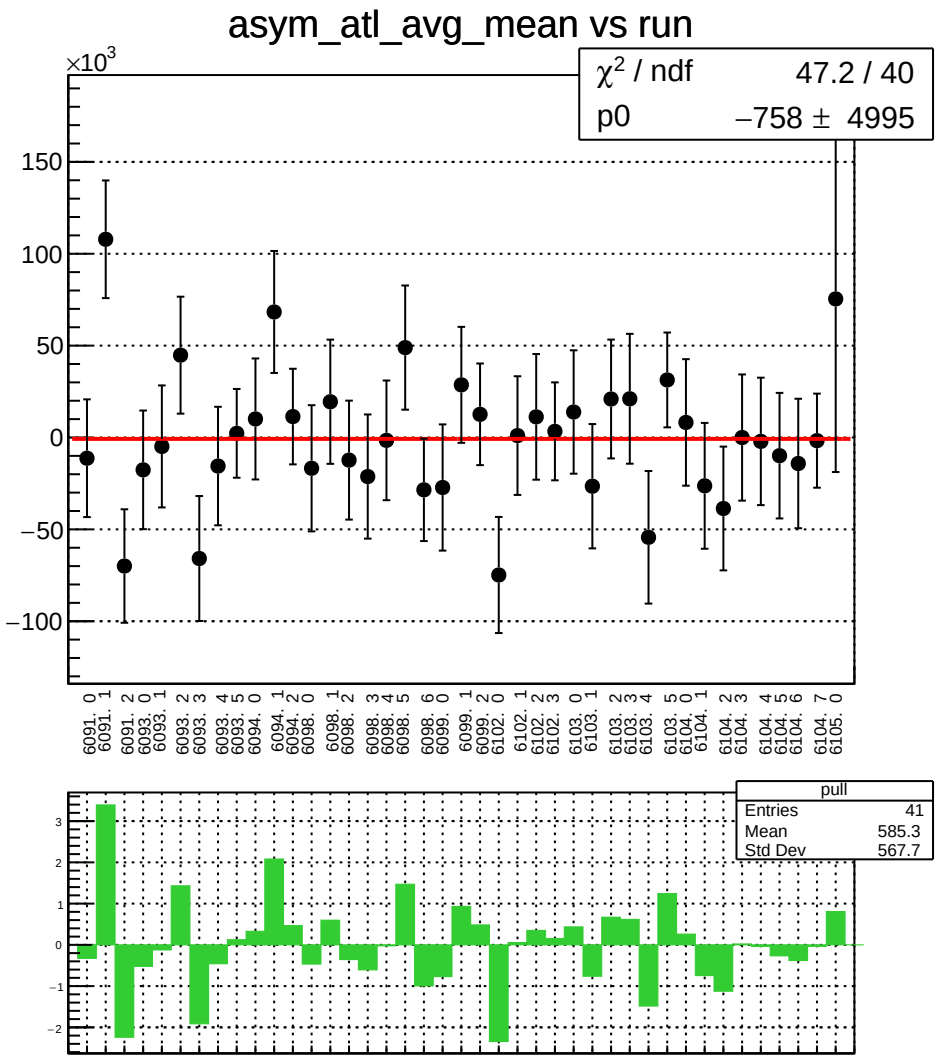

dit_asym_atl_avg_mean vs run
χ² / ndf 50.24 / 40
p0 1818 ± 2437
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −526.7
Std Dev 547.7
2
1
0
−1
−2

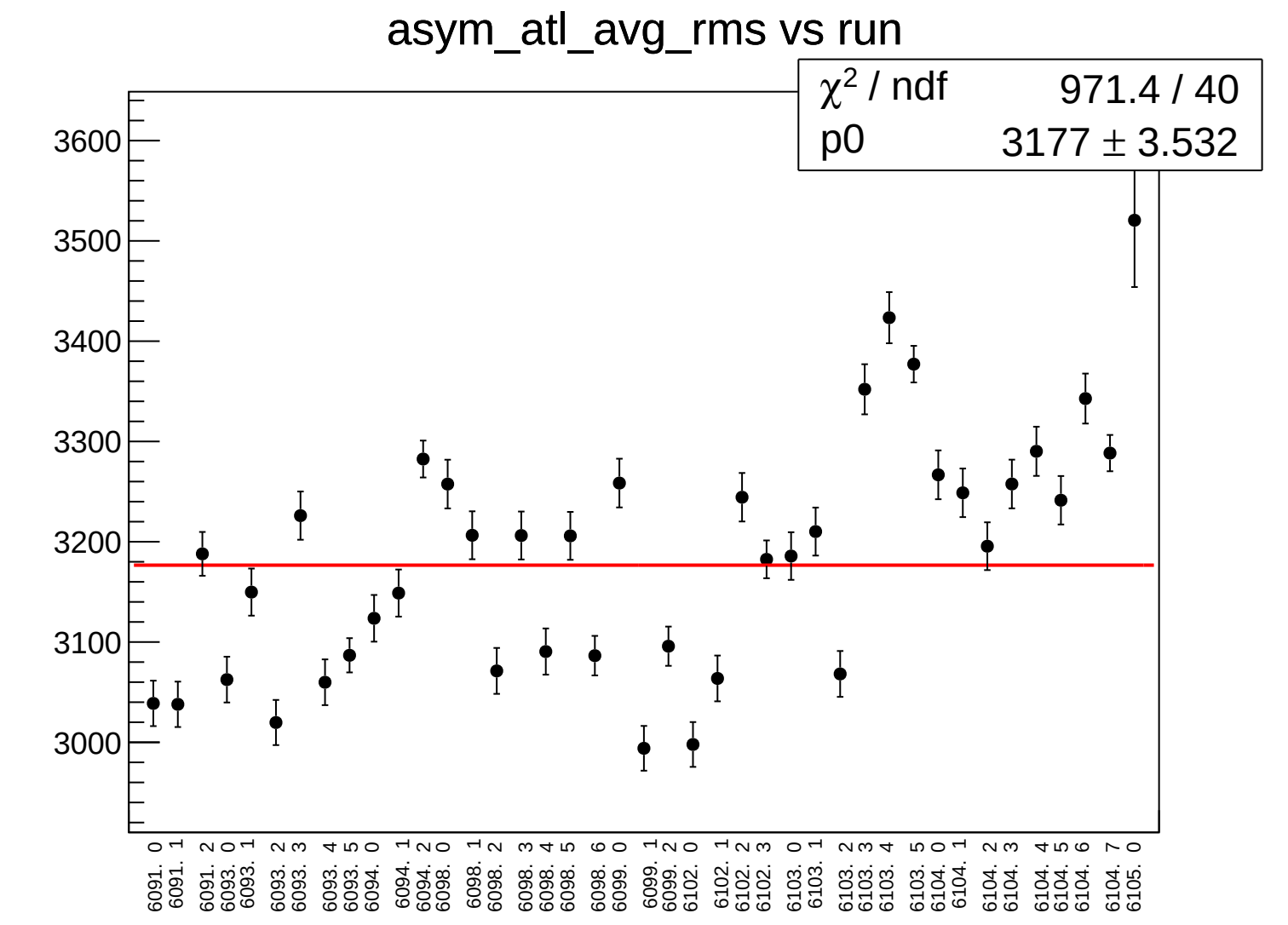

pull1D
Entries 41
Mean 0.003499
Std Dev 1.107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

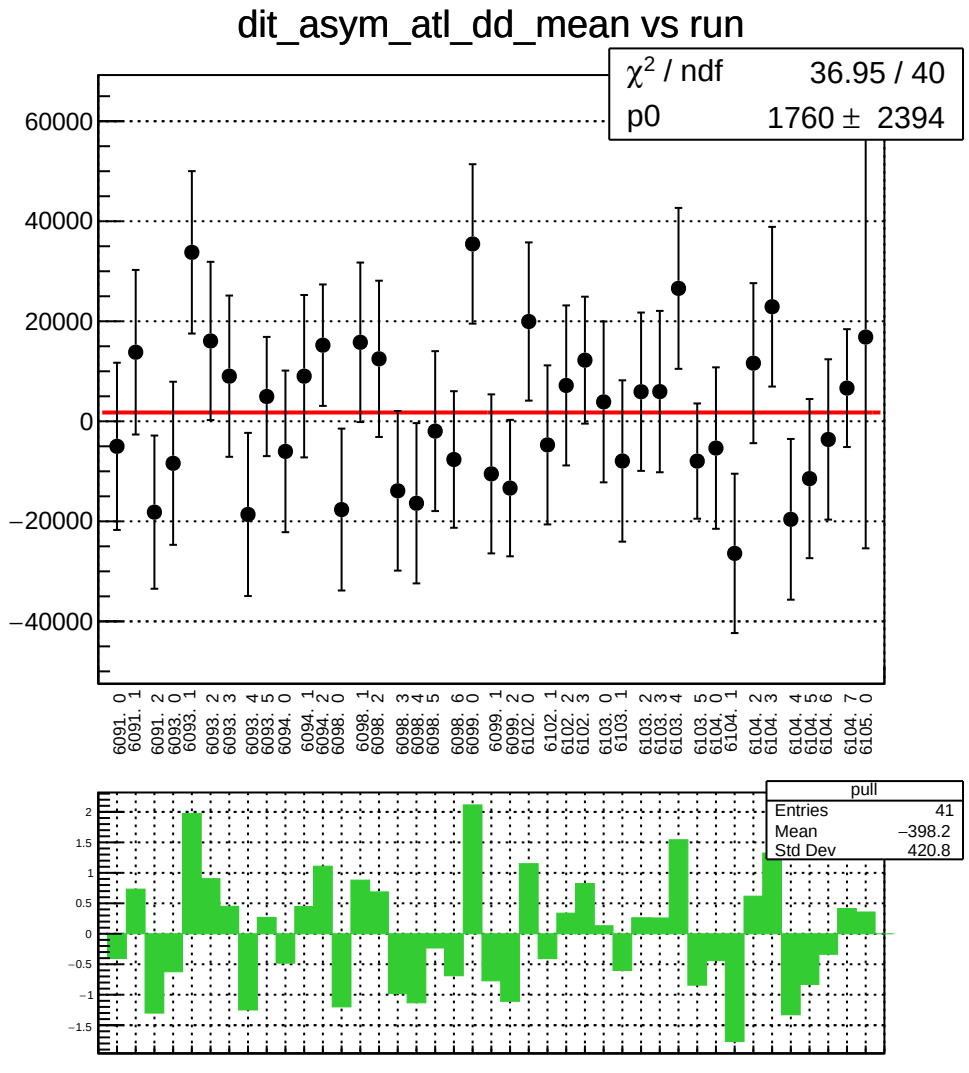

dit_asym_atl_avg_rms vs run
χ² / ndf 148.1 / 40
p0 1551 ± 1.724
1640
1620
1600
1580
1560
1540
1520
1500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

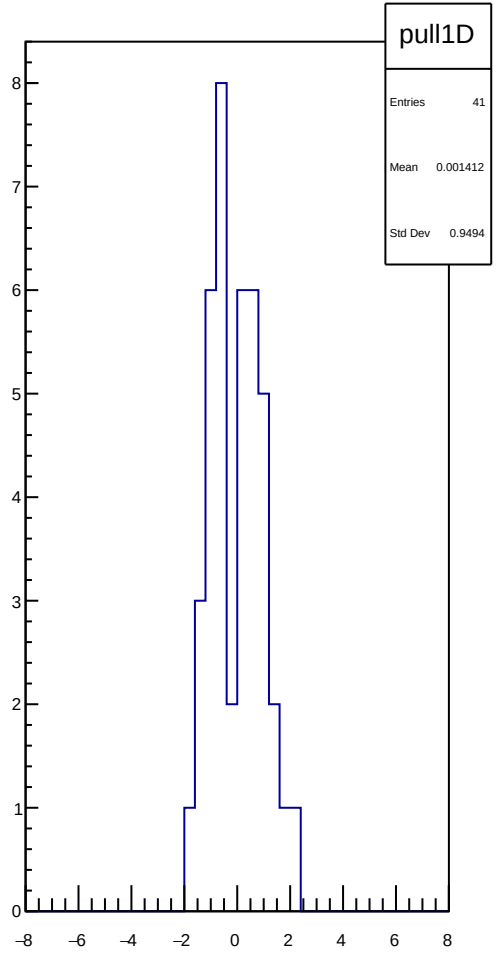

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 33.27 / 40
p0 2792 ± 4470
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 143.2
Std Dev 88.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.0008861
Std Dev 0.9008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

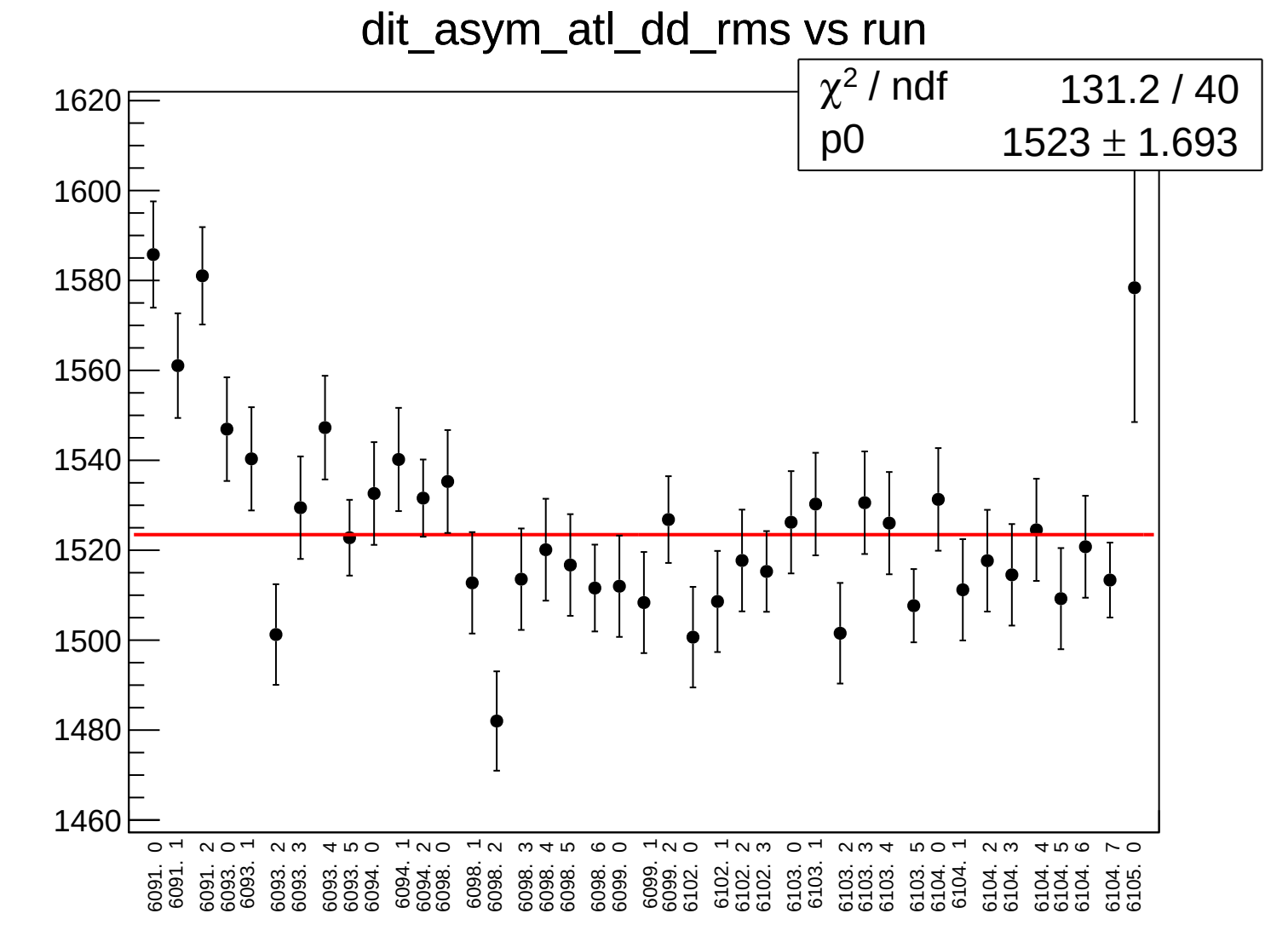

asym_atl_avg_correction_rms vs run
χ² / ndf 2305 / 40
p0 2841 ± 3.161
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

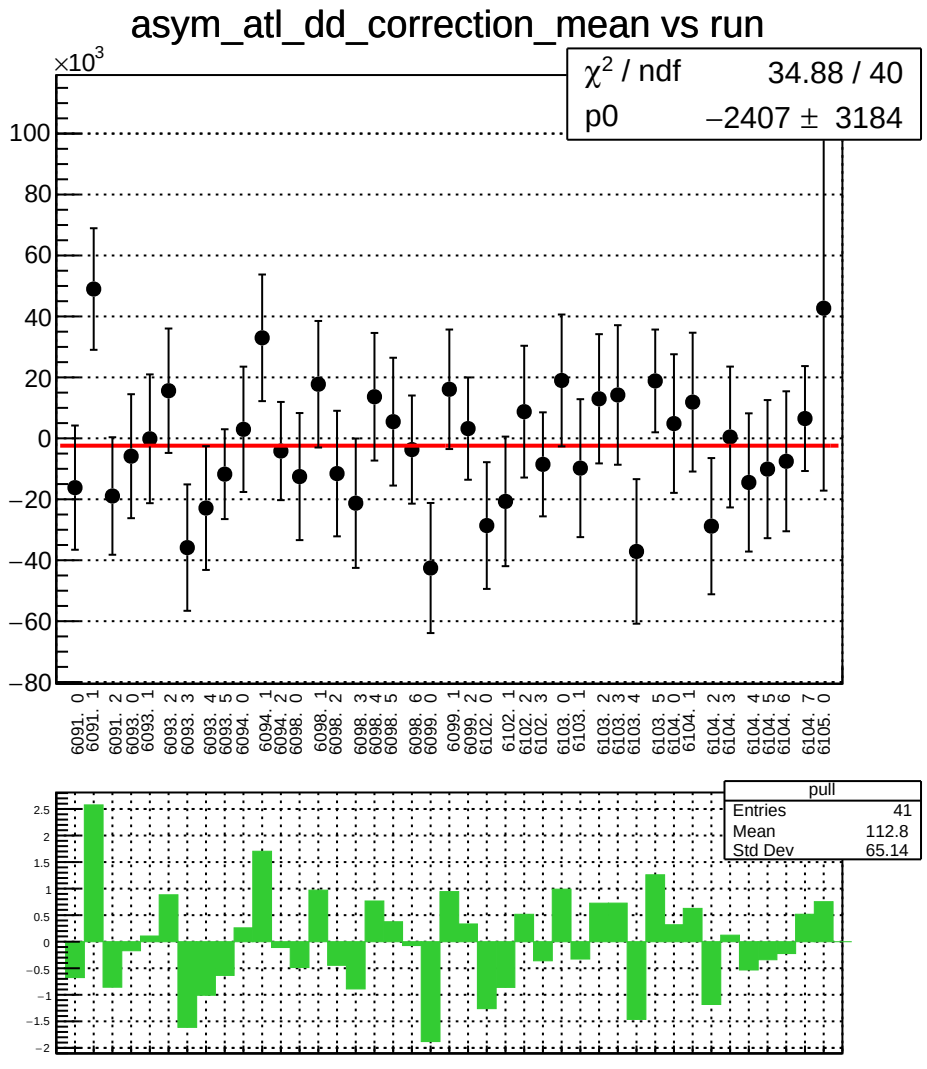

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 47.2 / 40
p0 −758 ± 4995
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 585.3
Std Dev 567.7
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.001544
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

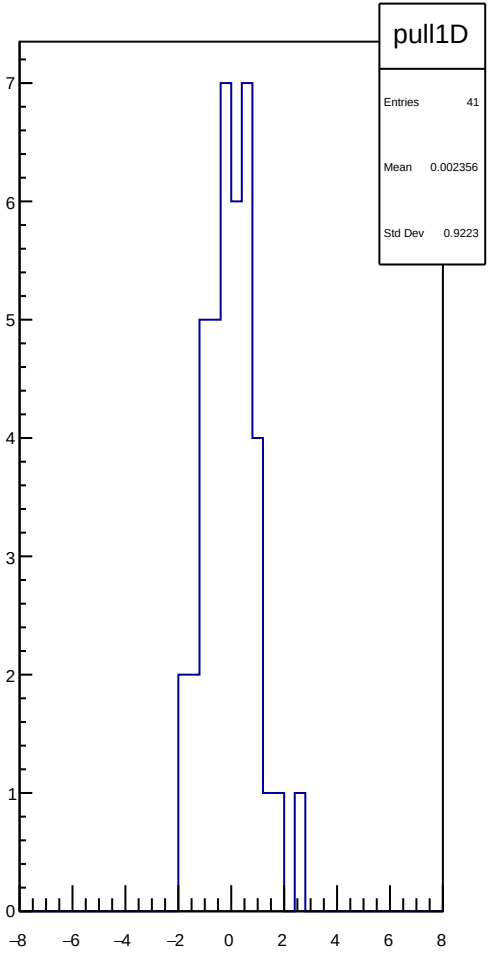

asym_atl_avg_rms vs run
χ² / ndf 971.4 / 40
p0 3177 ± 3.532
3600
3500
3400
3300
3200
3100
3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

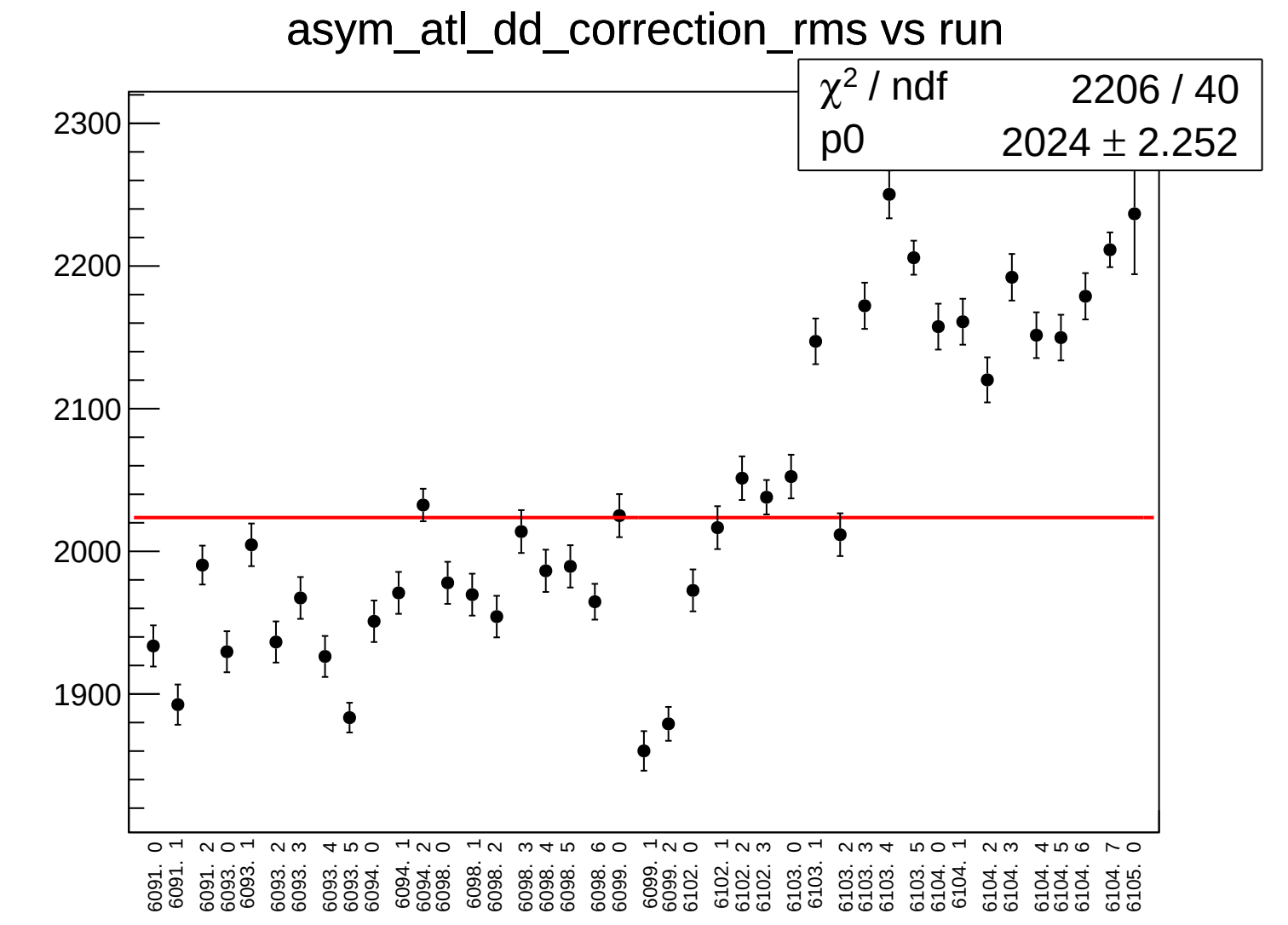

dit_asym_atl_dd_mean vs run
χ² / ndf 36.95 / 40
p0 1760 ± 2394
60000
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −398.2
Std Dev 420.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

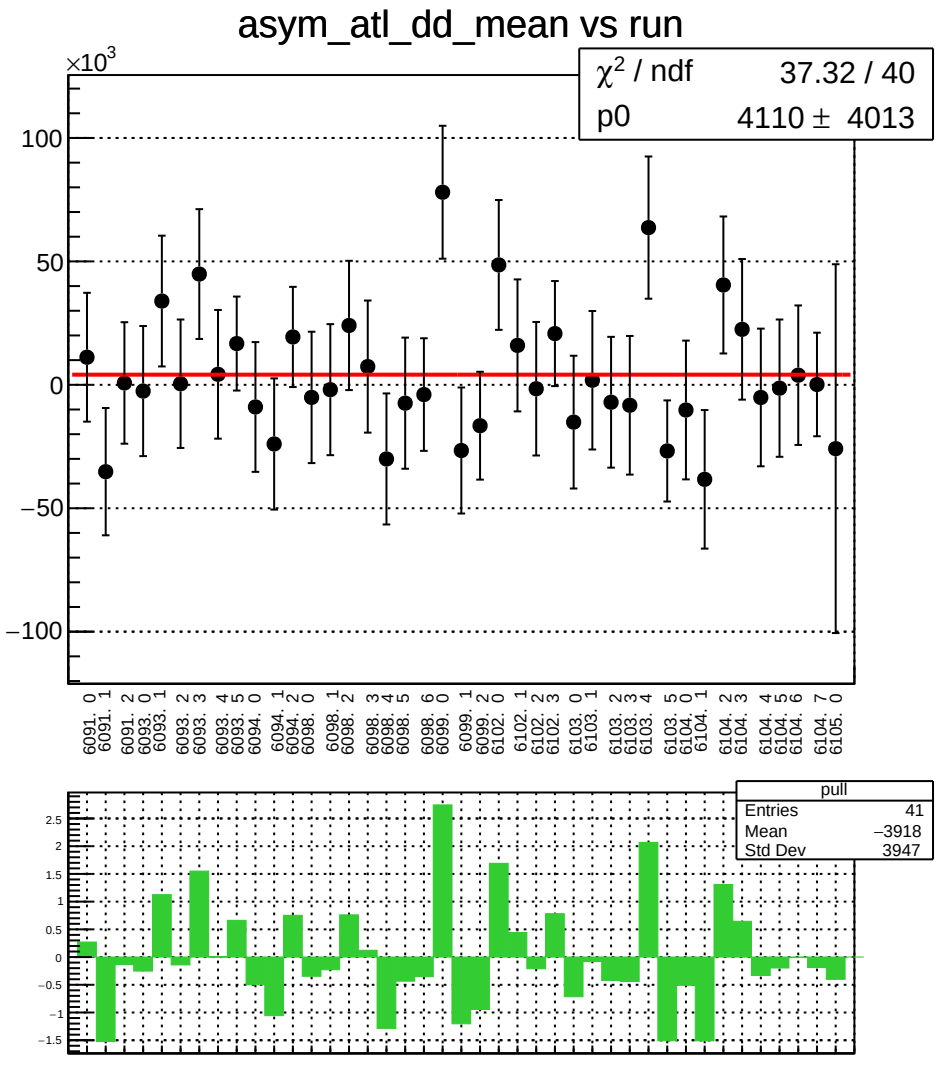

pull1D
Entries 41
Mean 0.001412
Std Dev 0.9494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

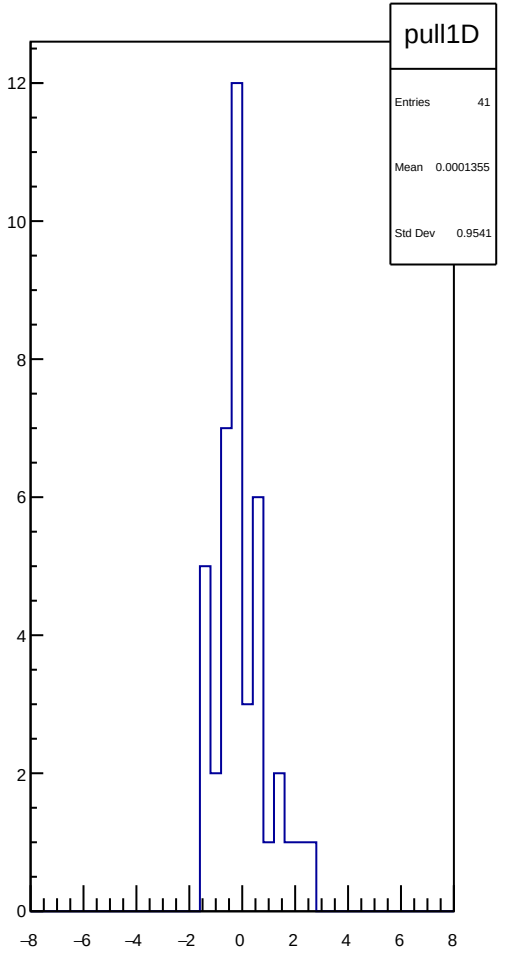

dit_asym_atl_dd_rms vs run
χ² / ndf 131.2 / 40
p0 1523 ± 1.693
1620
1600
1580
1560
1540
1520
1500
1480
1460
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

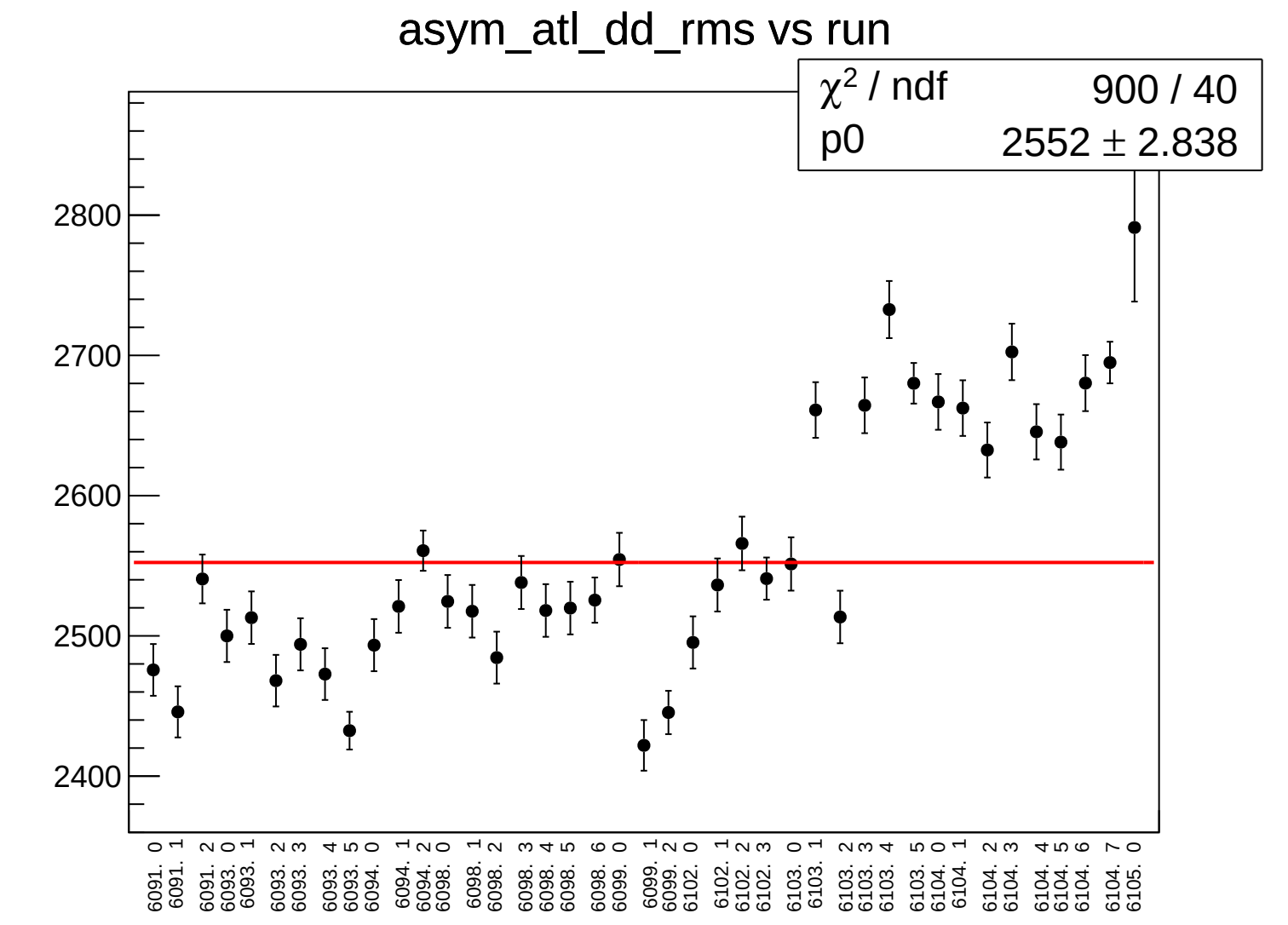

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 34.88 / 40
p0 −2407 ± 3184
100
80
60
40
20
0
−20
−40
−60
−80
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 112.8
Std Dev 65.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

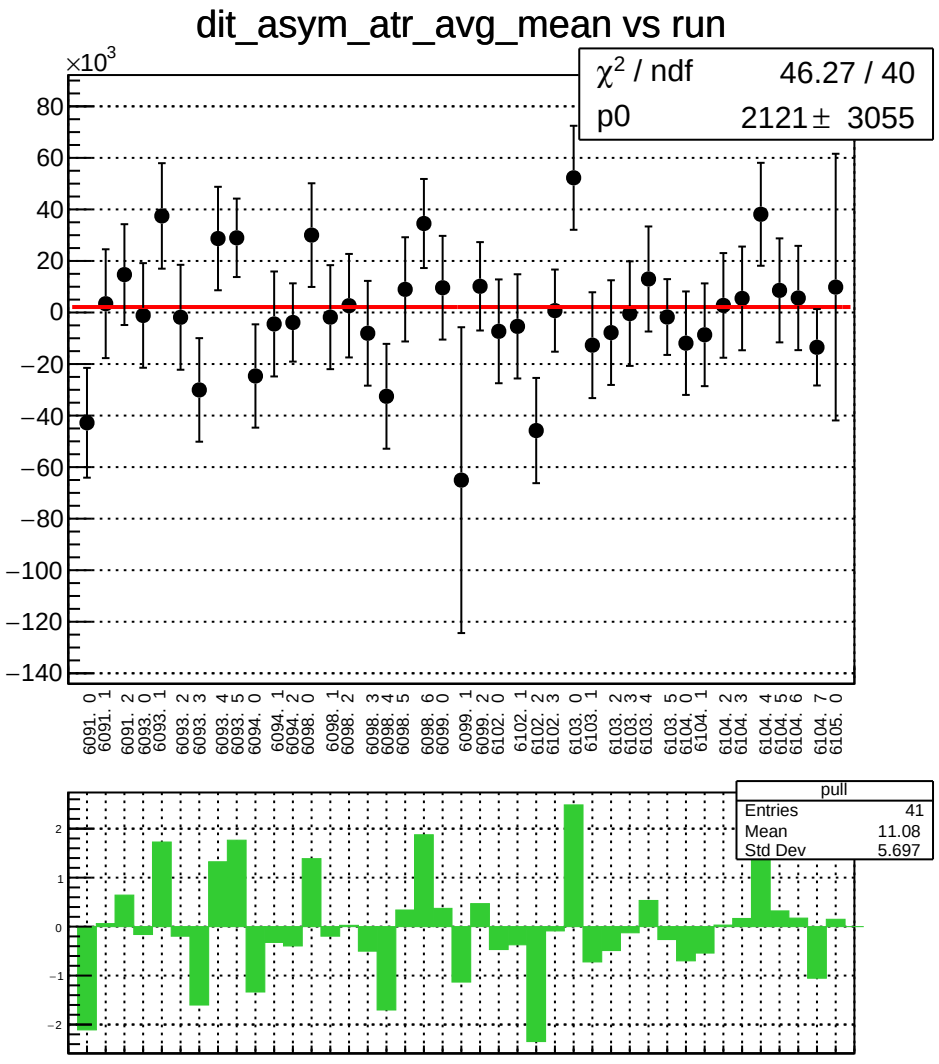

pull1D
Entries 41
Mean 0.002356
Std Dev 0.9223
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

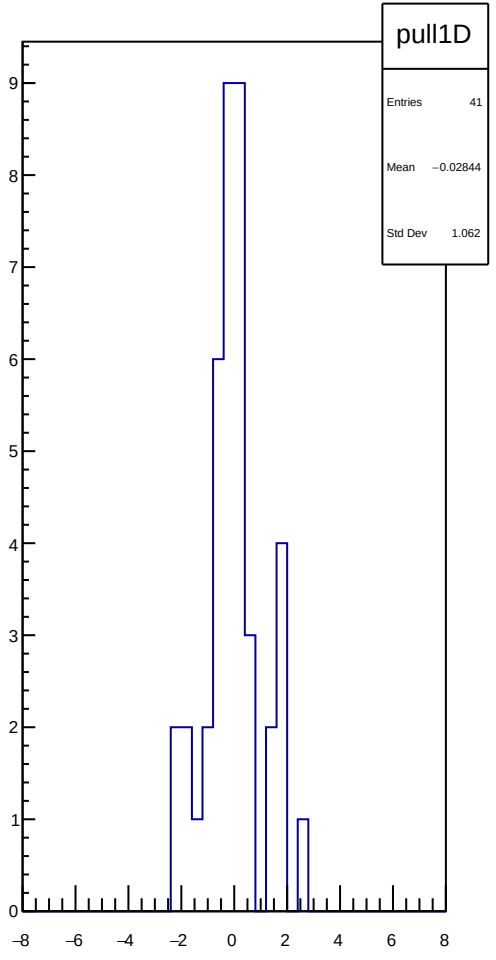

asym_atl_dd_correction_rms vs run
χ² / ndf 2206 / 40
p0 2024 ± 2.252
2300
2200
2100
2000
1900
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

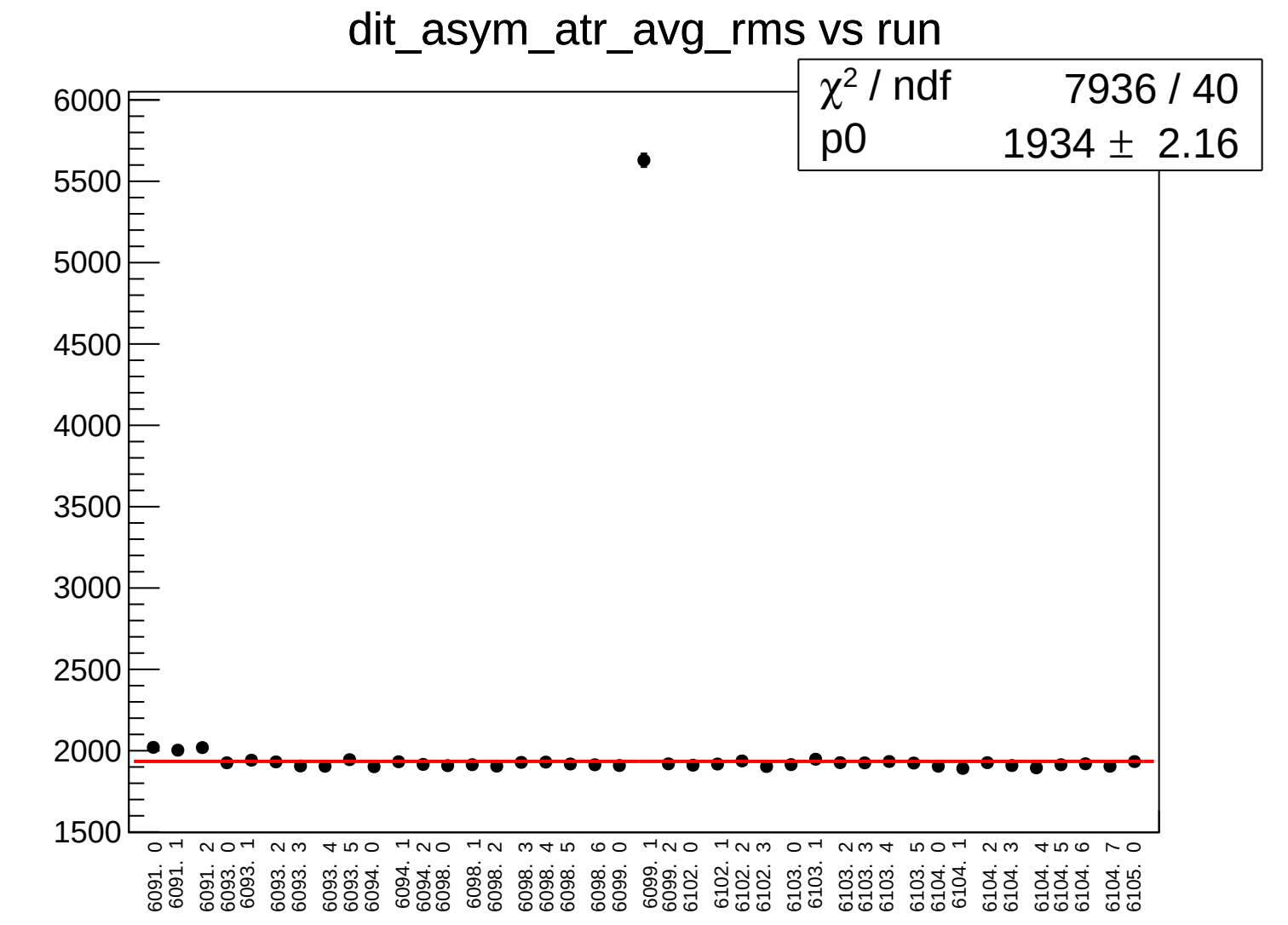

asym_atl_dd_mean vs run
×10^3
χ² / ndf 37.32 / 40
p0 4110 ± 4013
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −3918
Std Dev 3947
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

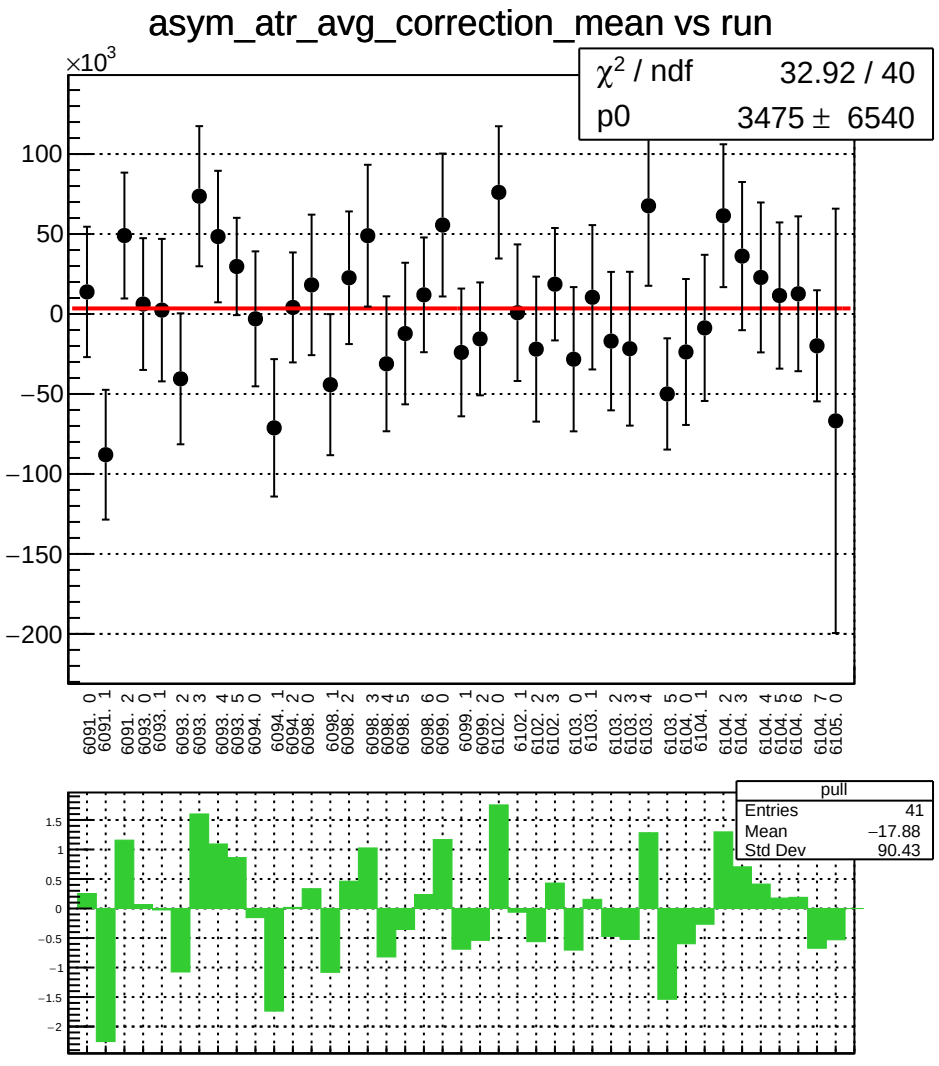

pull1D
Entries 41
Mean 0.0001355
Std Dev 0.9541
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

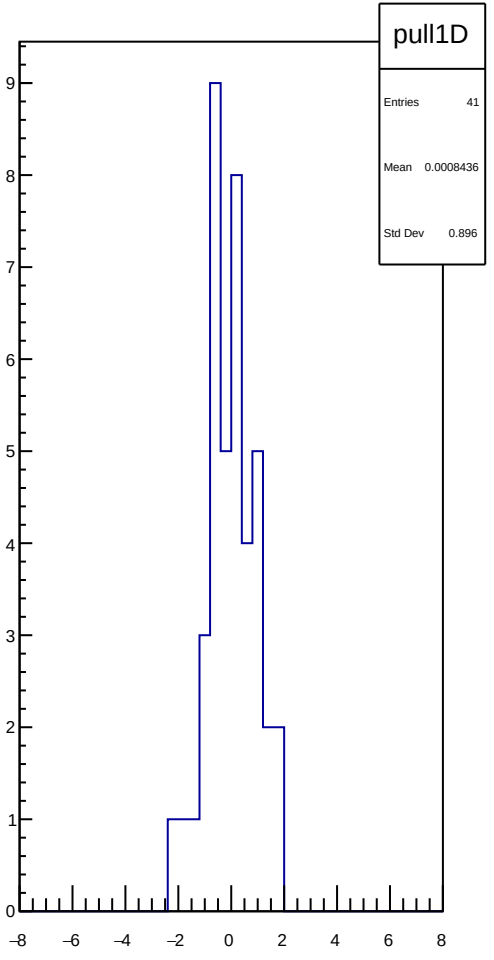

asym_atl_dd_rms vs run
χ² / ndf 900 / 40
p0 2552 ± 2.838
2800
2700
2600
2500
2400
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

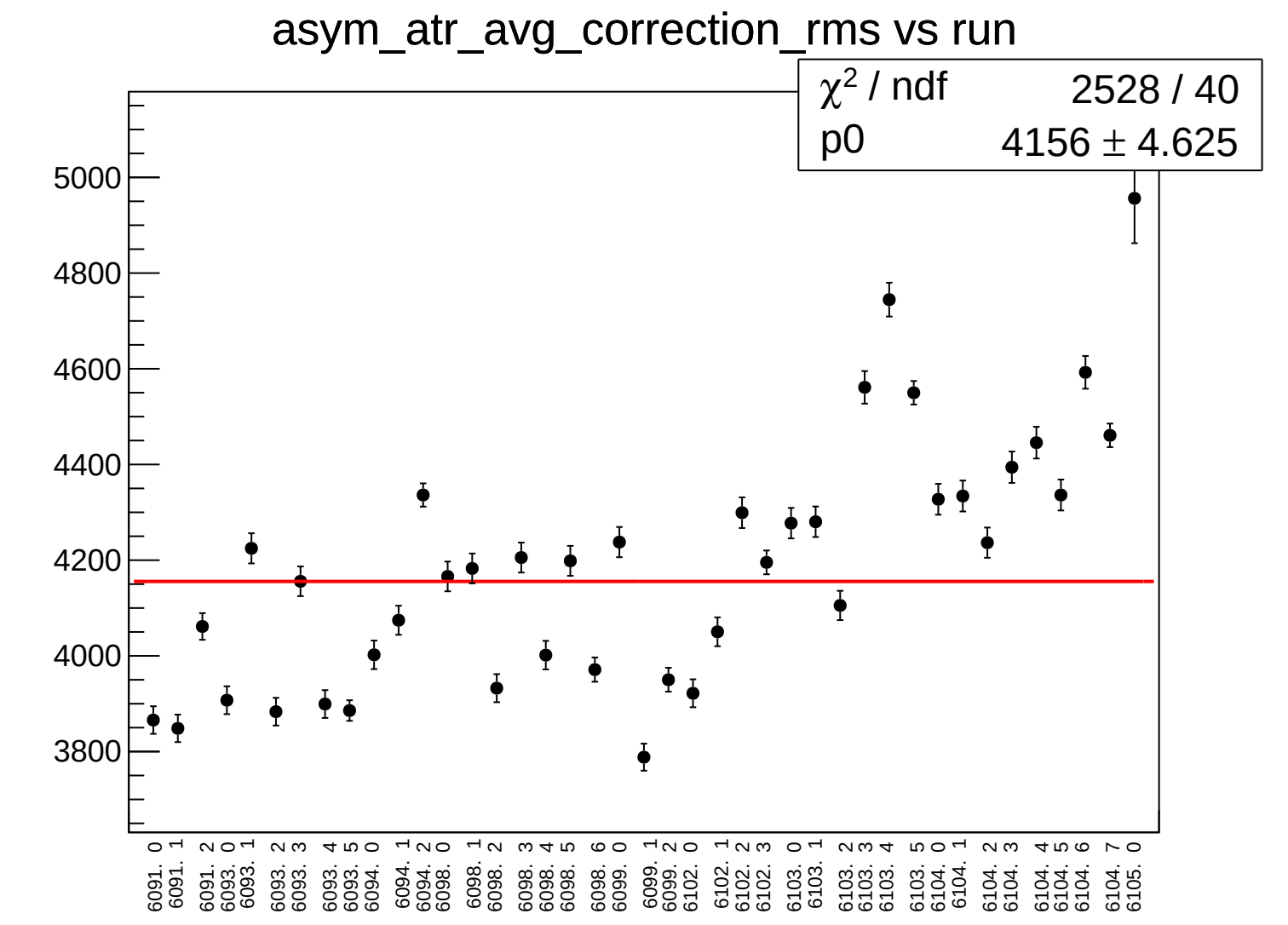

dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 46.27 / 40
p0 2121 ± 3055
pull
Entries 41
Mean 11.08
Std Dev 5.697

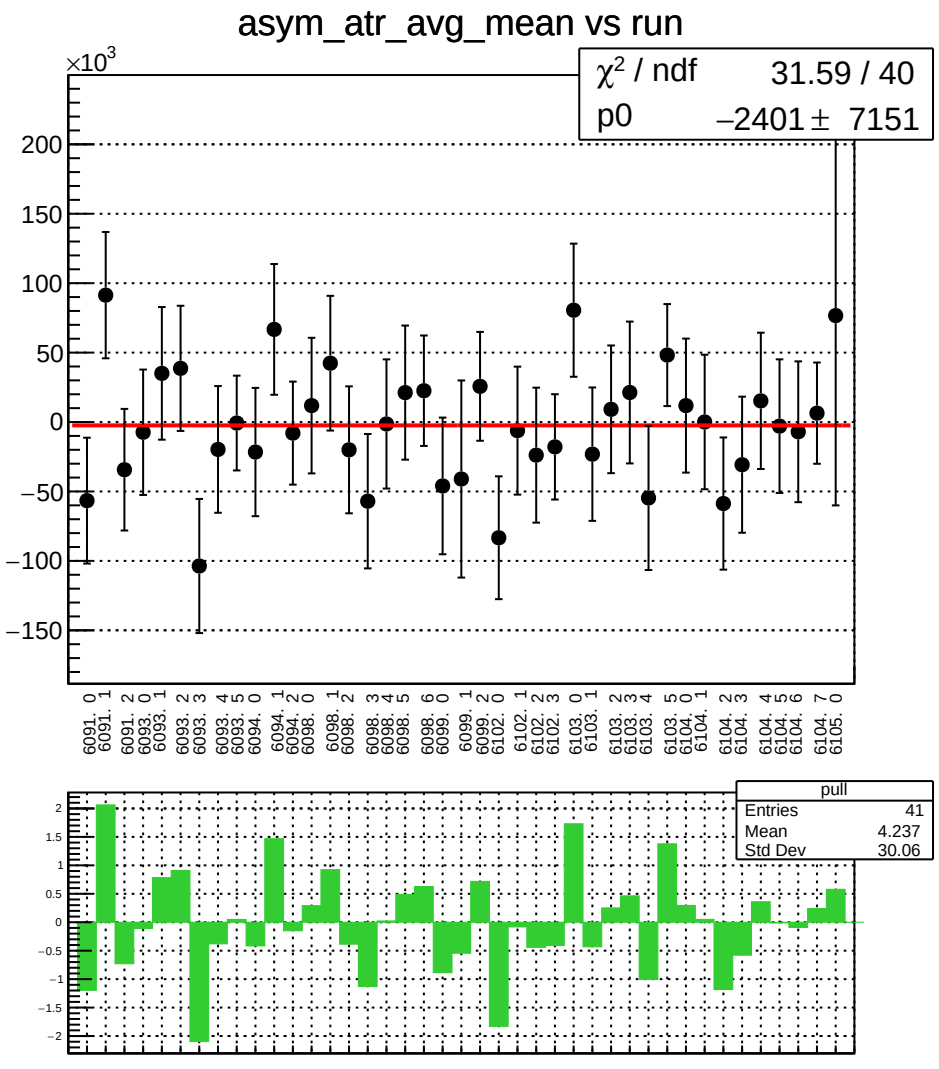

pull1D
Entries 41
Mean −0.02844
Std Dev 1.062

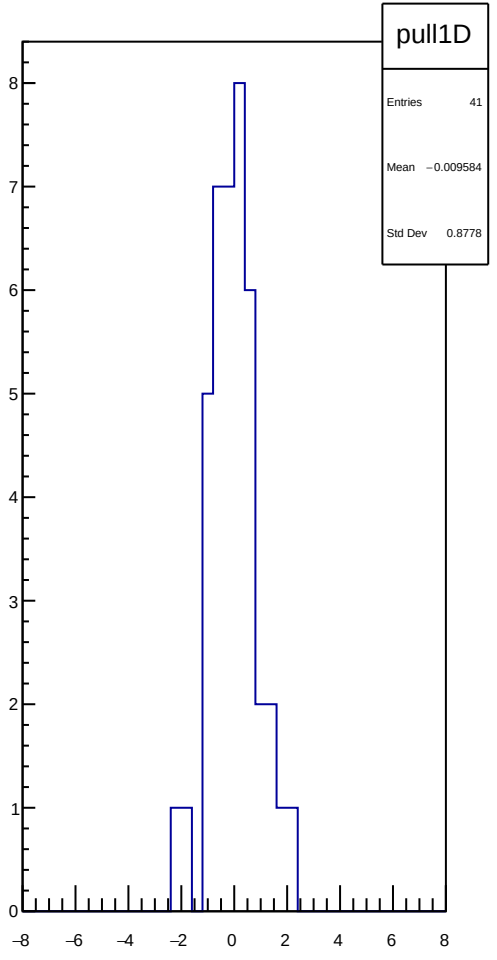

dit_asym_atr_avg_rms vs run
χ² / ndf 7936 / 40
p0 1934 ± 2.16
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

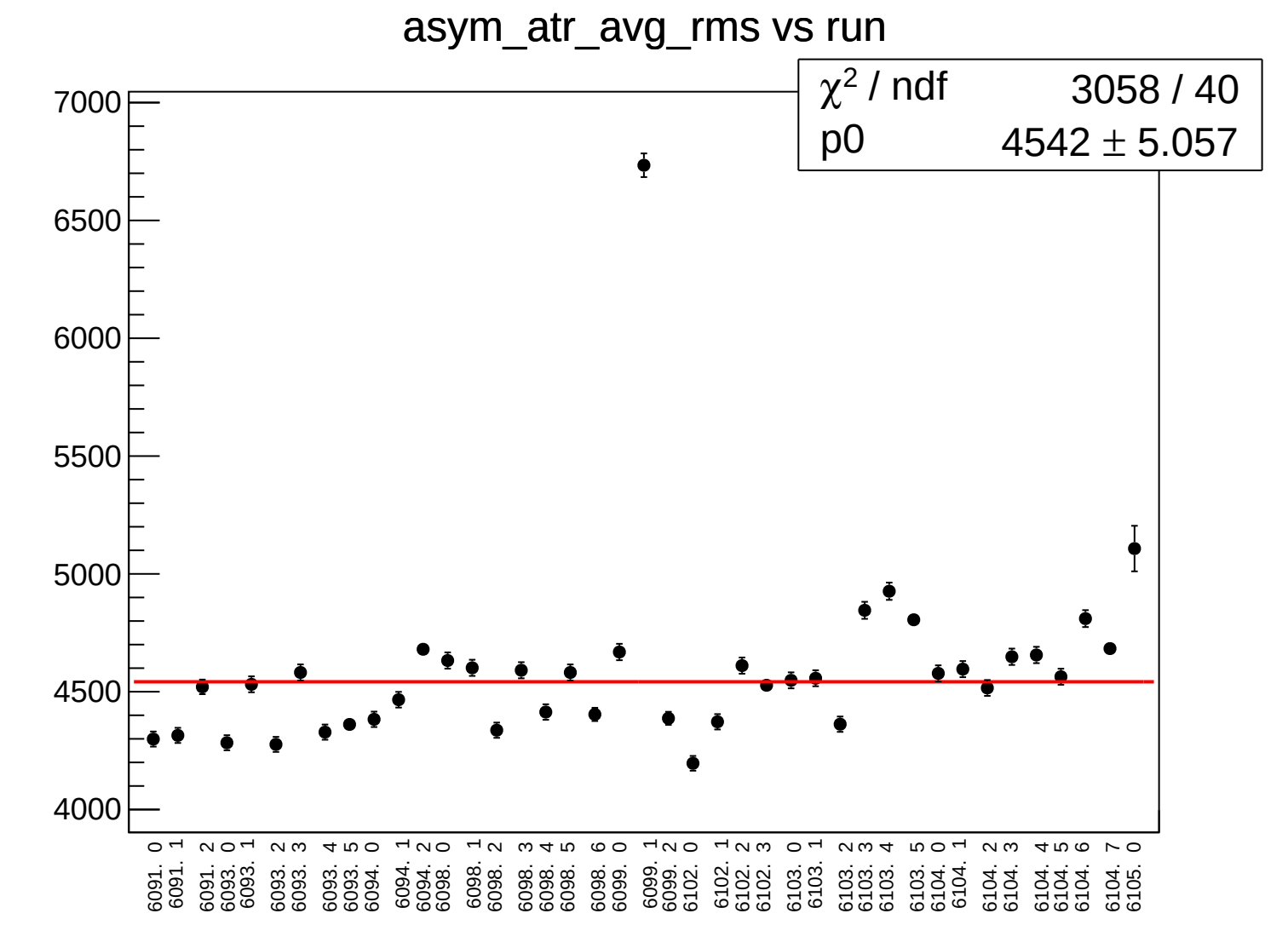

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 32.92 / 40
p0 3475 ± 6540
100
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −17.88
Std Dev 90.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2

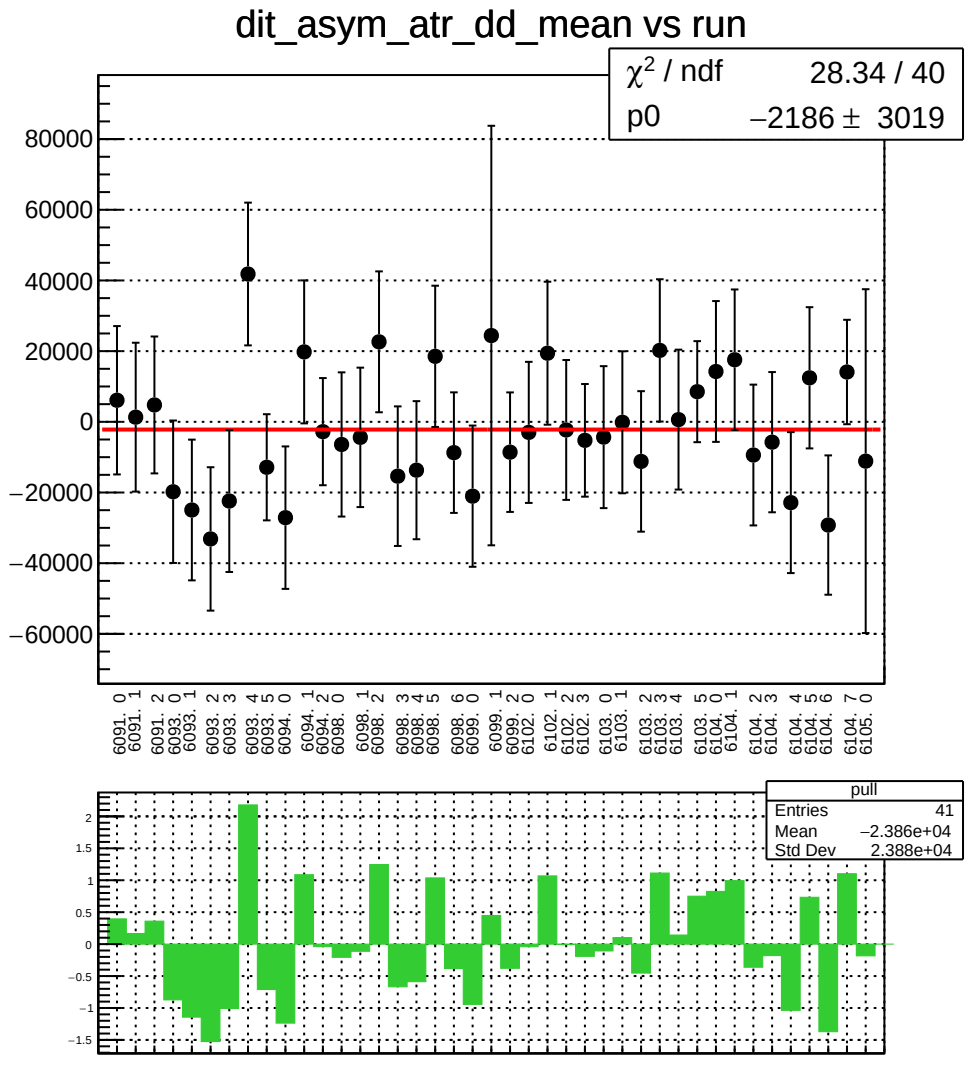

pull1D
Entries 41
Mean 0.0008436
Std Dev 0.896
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

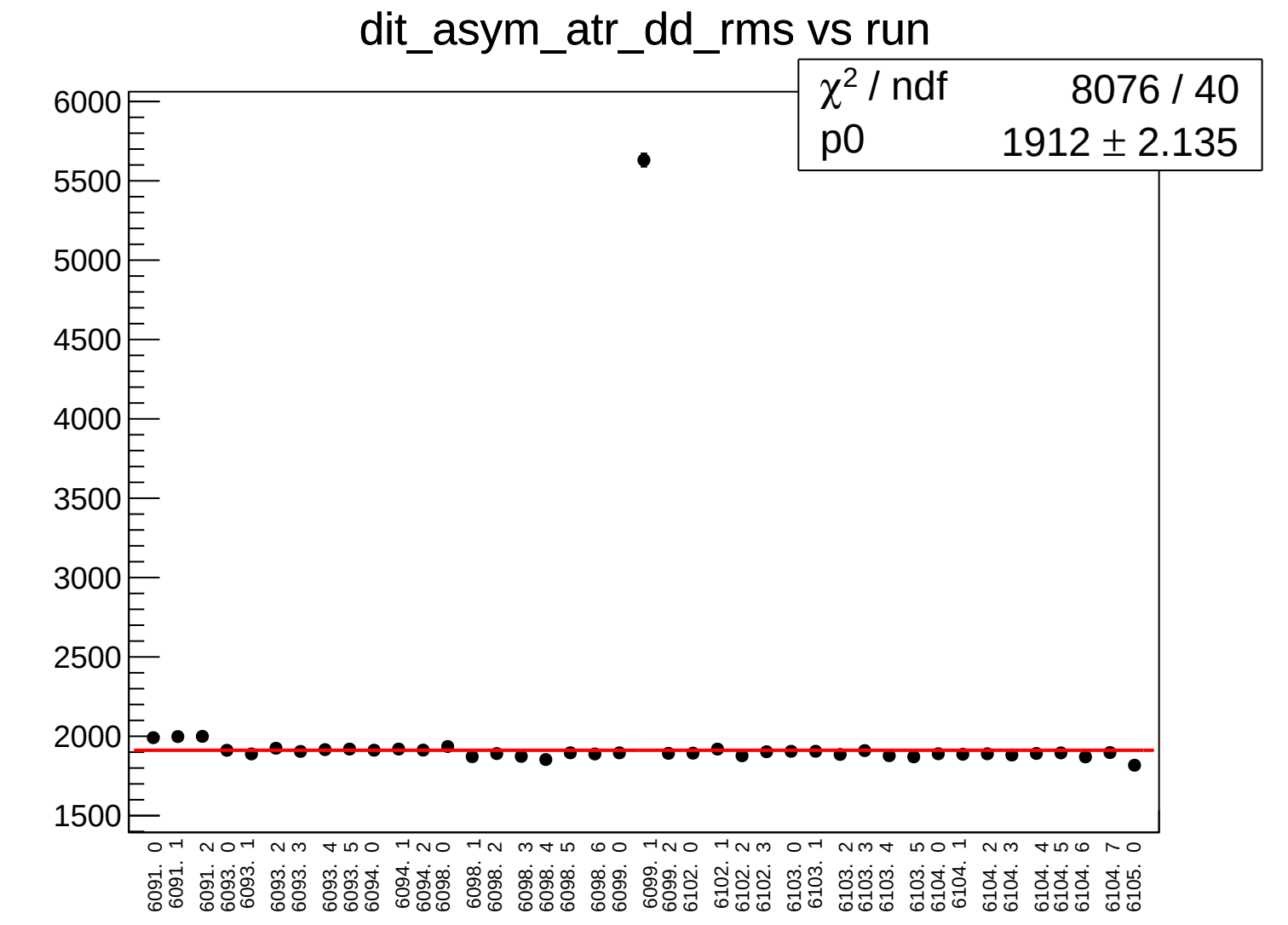

asym_atr_avg_correction_rms vs run
χ² / ndf 2528 / 40
p0 4156 ± 4.625
5000
4800
4600
4400
4200
4000
3800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

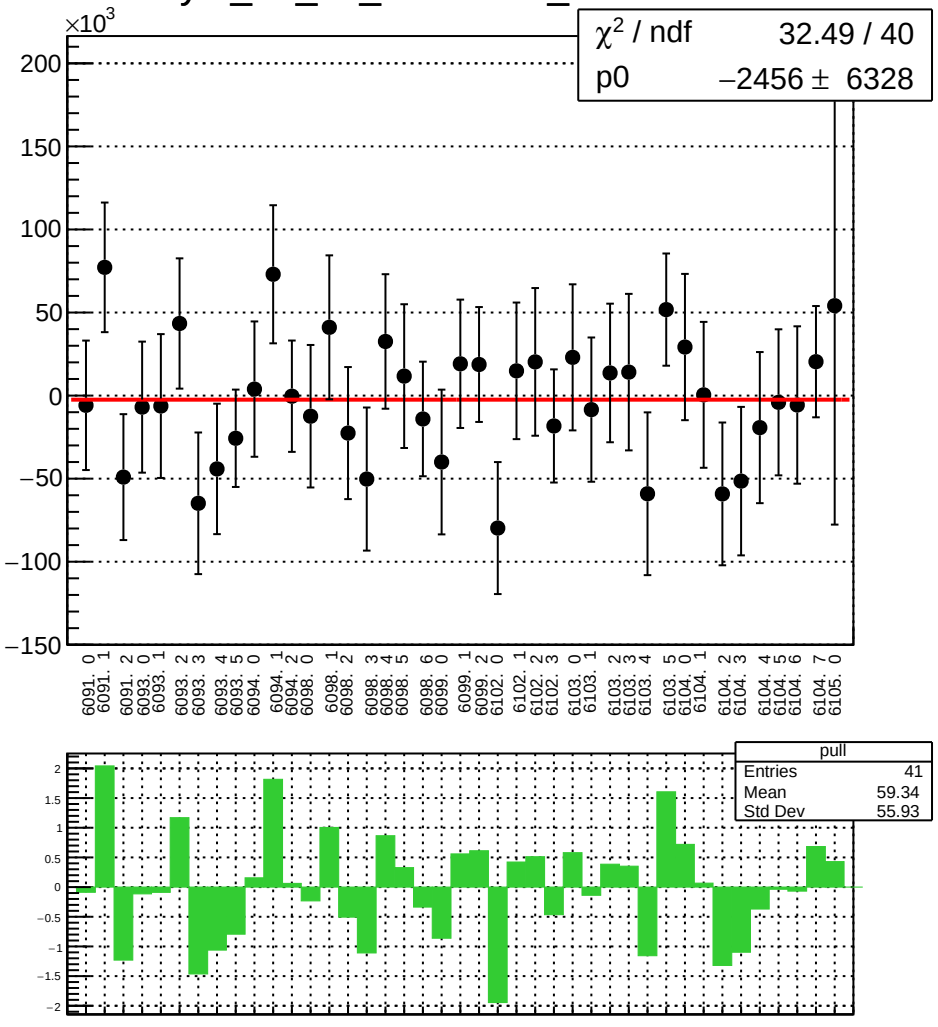

asym_atr_avg_mean vs run
×10^3
χ² / ndf 31.59 / 40
p0 −2401 ± 7151
200
150
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 4.237
Std Dev 30.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

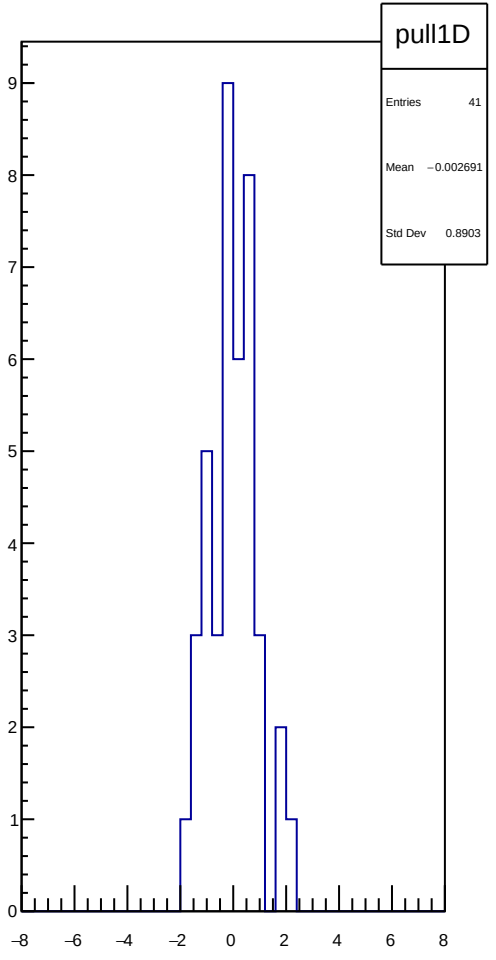

pull1D
Entries 41
Mean −0.009584
Std Dev 0.8778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

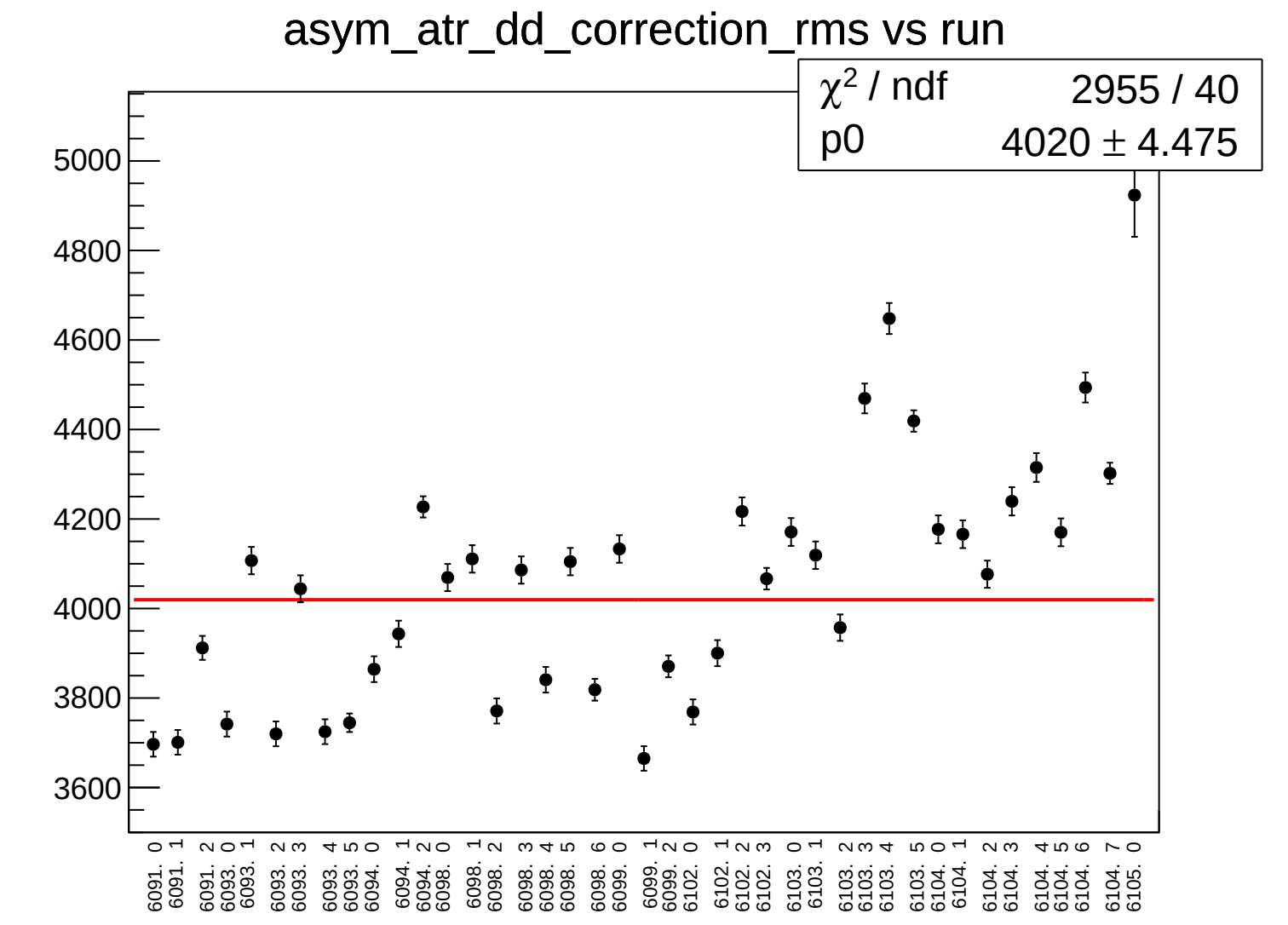

asym_atr_avg_rms vs run
χ² / ndf 3058 / 40
p0 4542 ± 5.057
7000
6500
6000
5500
5000
4500
4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

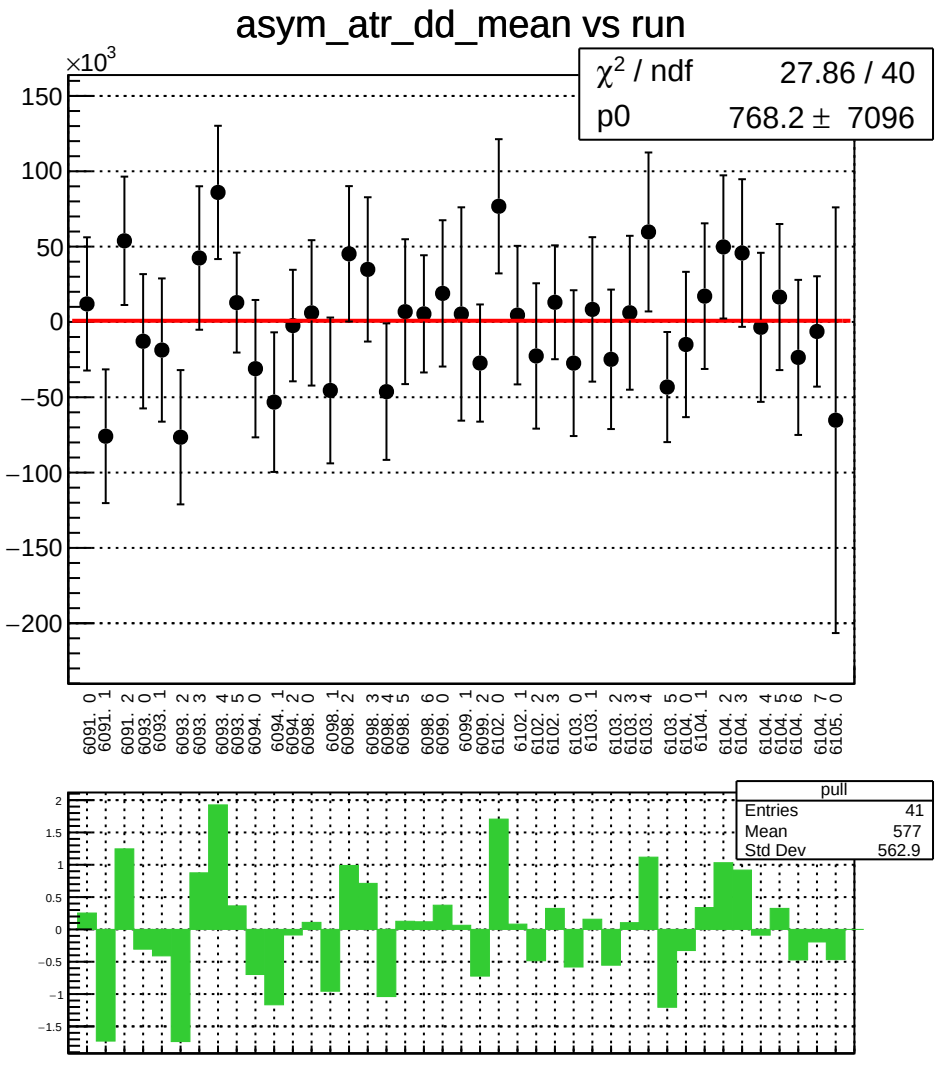

dit_asym_atr_dd_mean vs run
χ² / ndf 28.34 / 40
p0 −2186 ± 3019
80000
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −2.386e+04
Std Dev 2.388e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −5.774e−05
Std Dev 0.8314
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

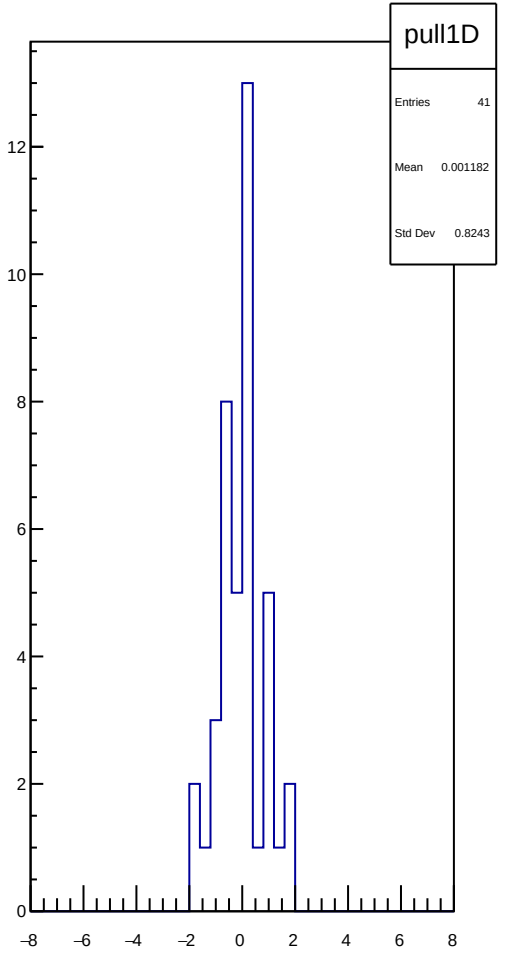

dit_asym_atr_dd_rms vs run
χ² / ndf 8076 / 40
p0 1912 ± 2.135
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

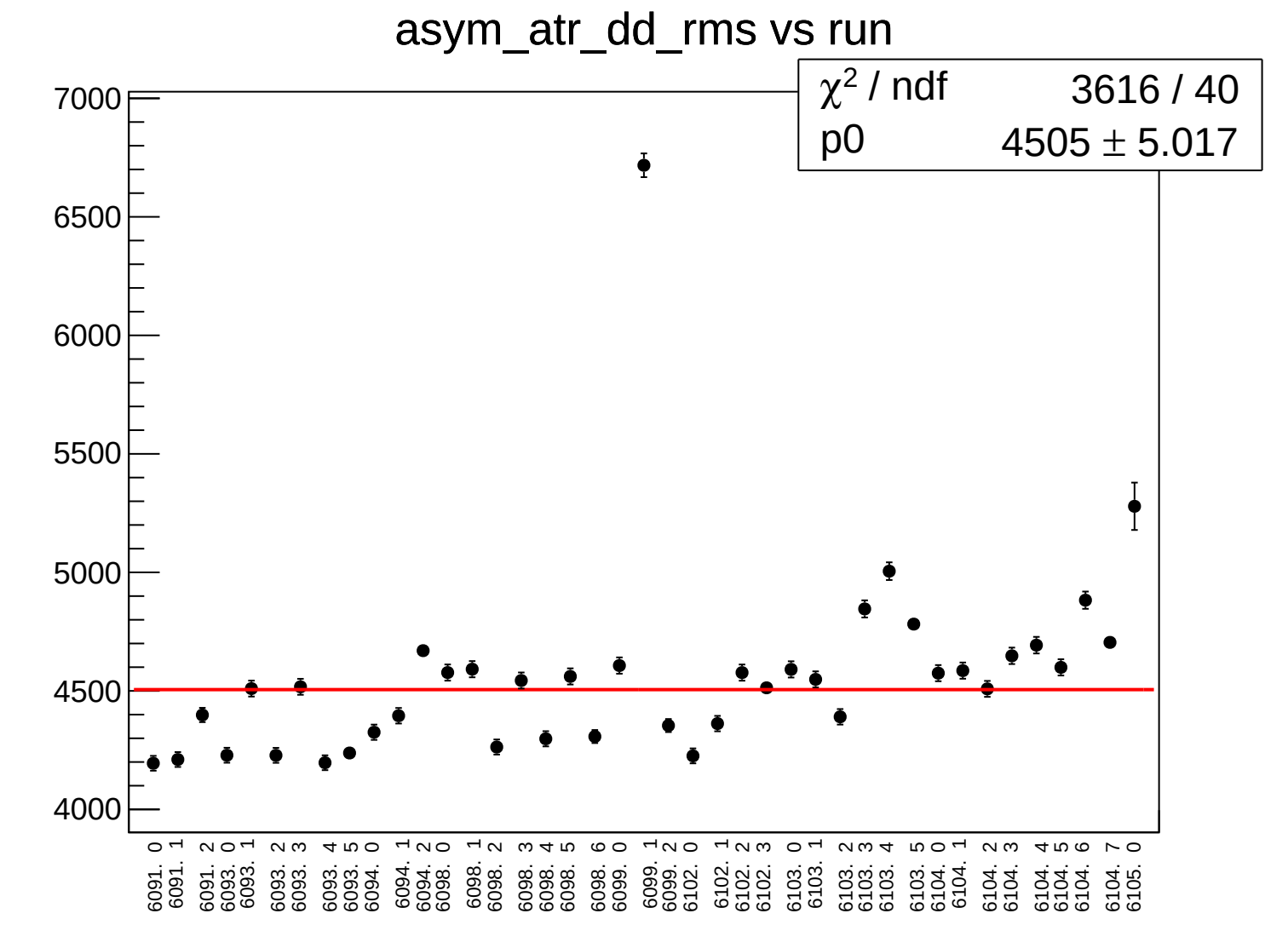

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 32.49 / 40
p0 −2456 ± 6328
200
150
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 59.34
Std Dev 55.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

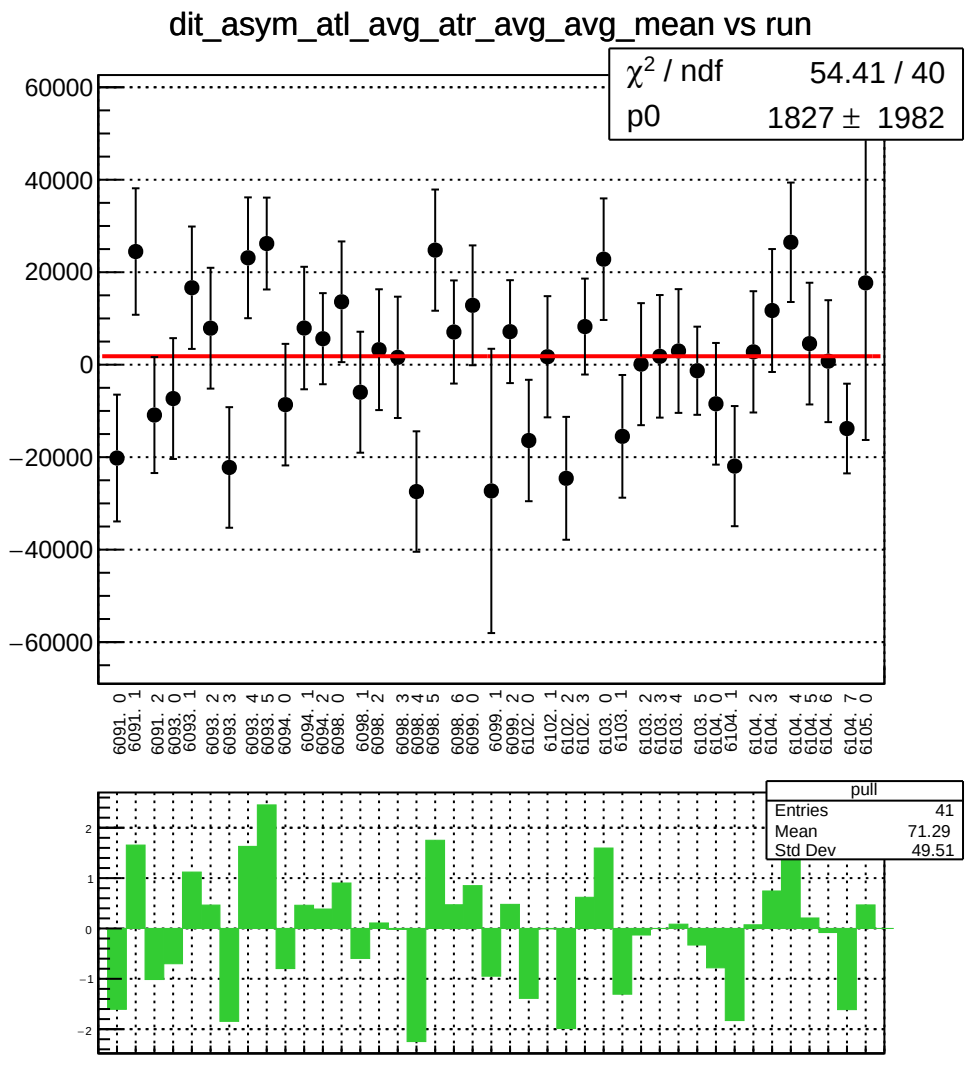

pull1D
Entries 41
Mean −0.002691
Std Dev 0.8903
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

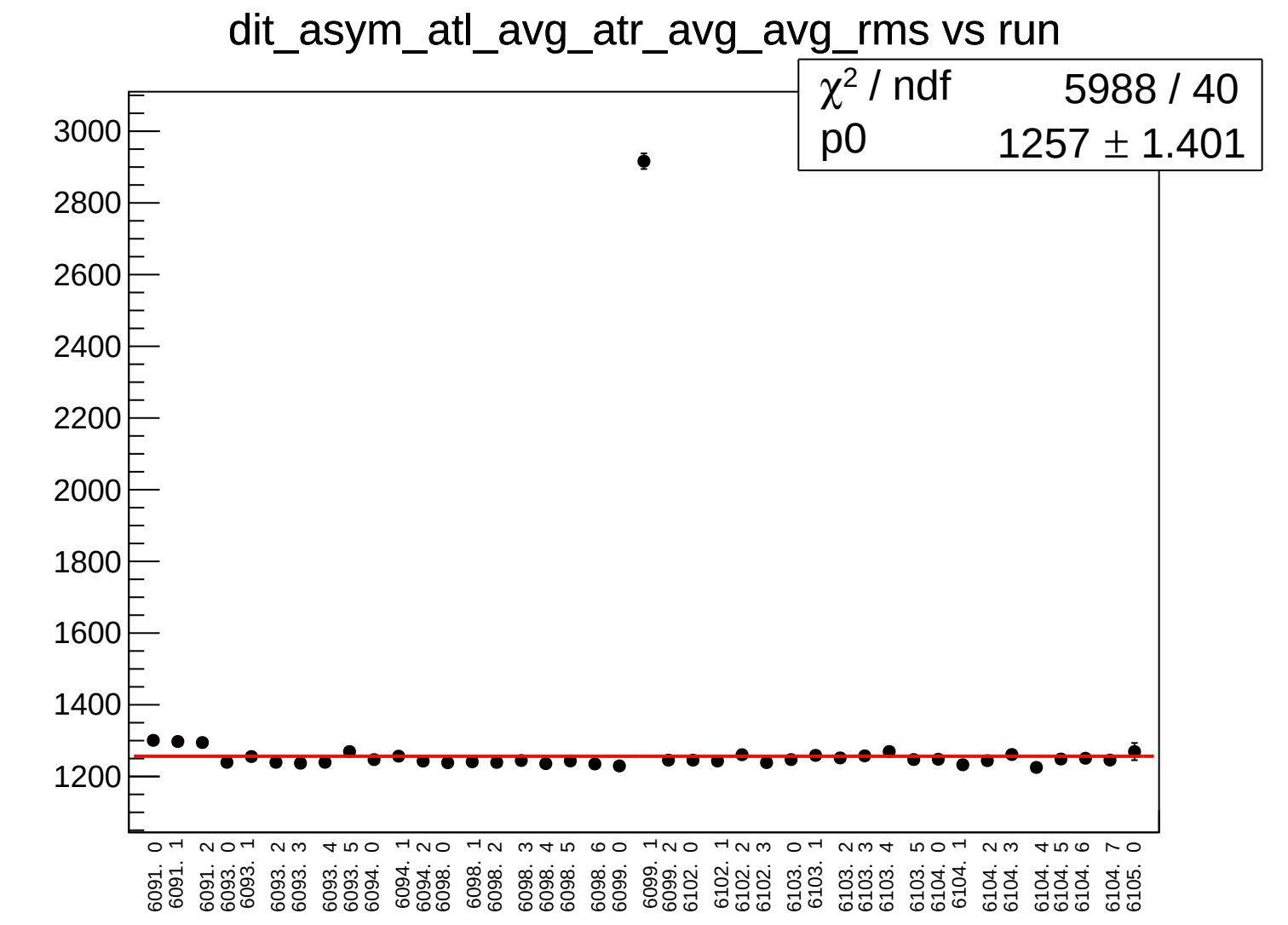

asym_atr_dd_correction_rms vs run
χ² / ndf 2955 / 40
p0 4020 ± 4.475
5000
4800
4600
4400
4200
4000
3800
3600
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

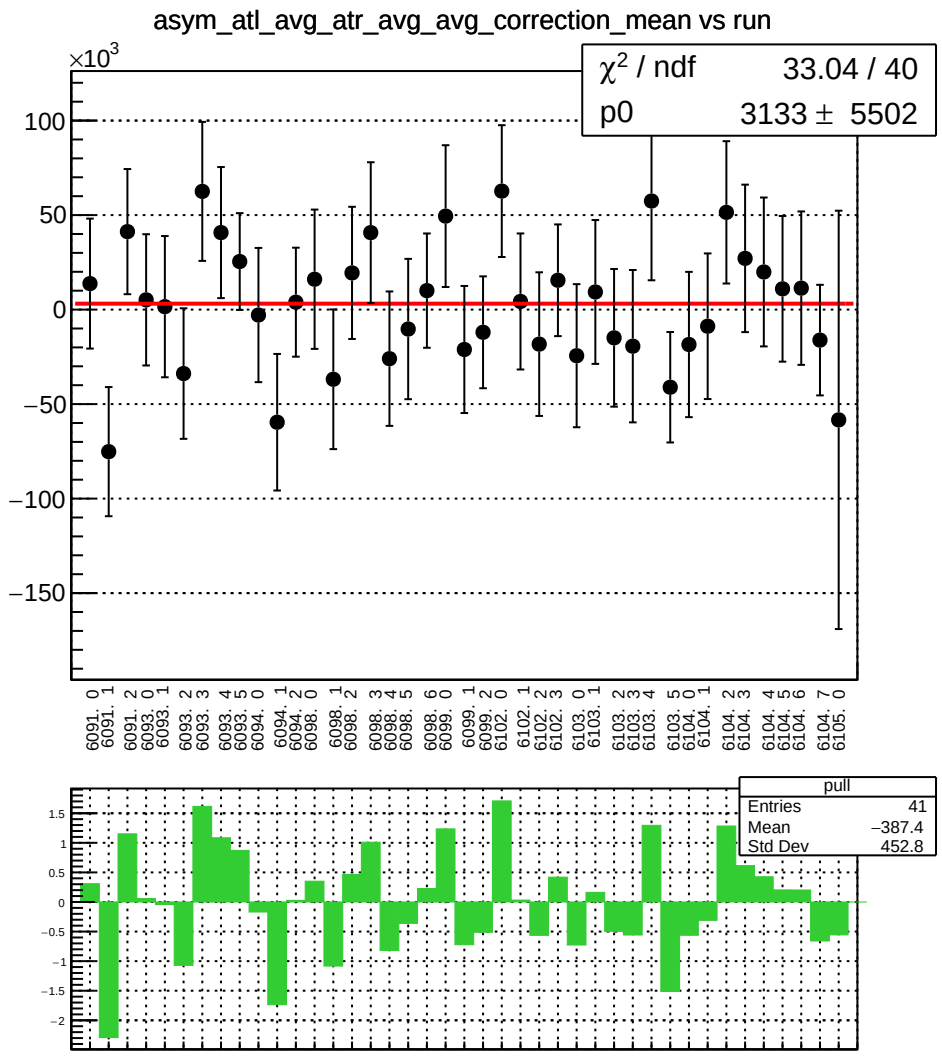

asym_atr_dd_mean vs run
×10^3
χ² / ndf 27.86 / 40
p0 768.2 ± 7096
150
100
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 577
Std Dev 562.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

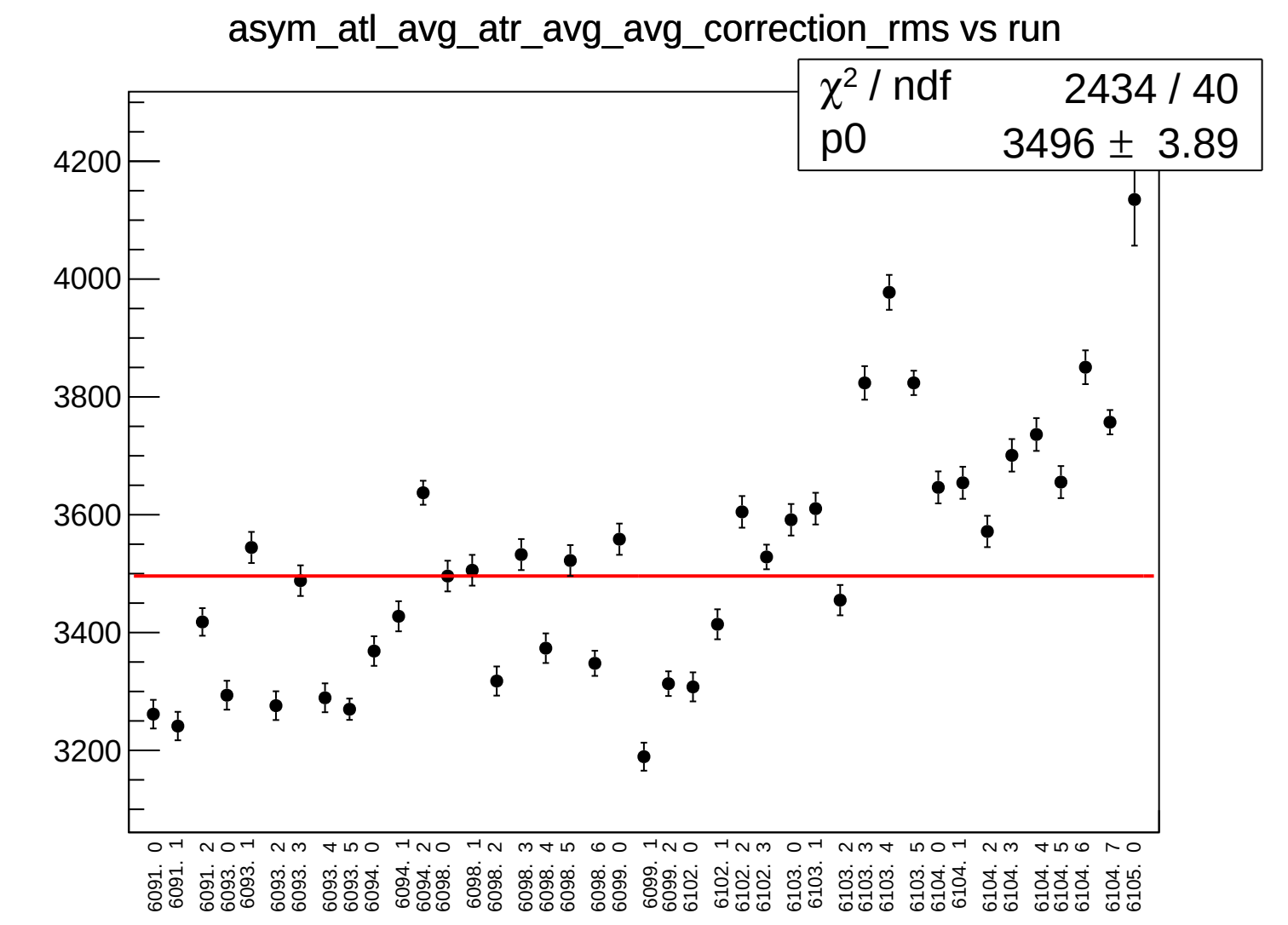

pull1D
Entries 41
Mean 0.001182
Std Dev 0.8243
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

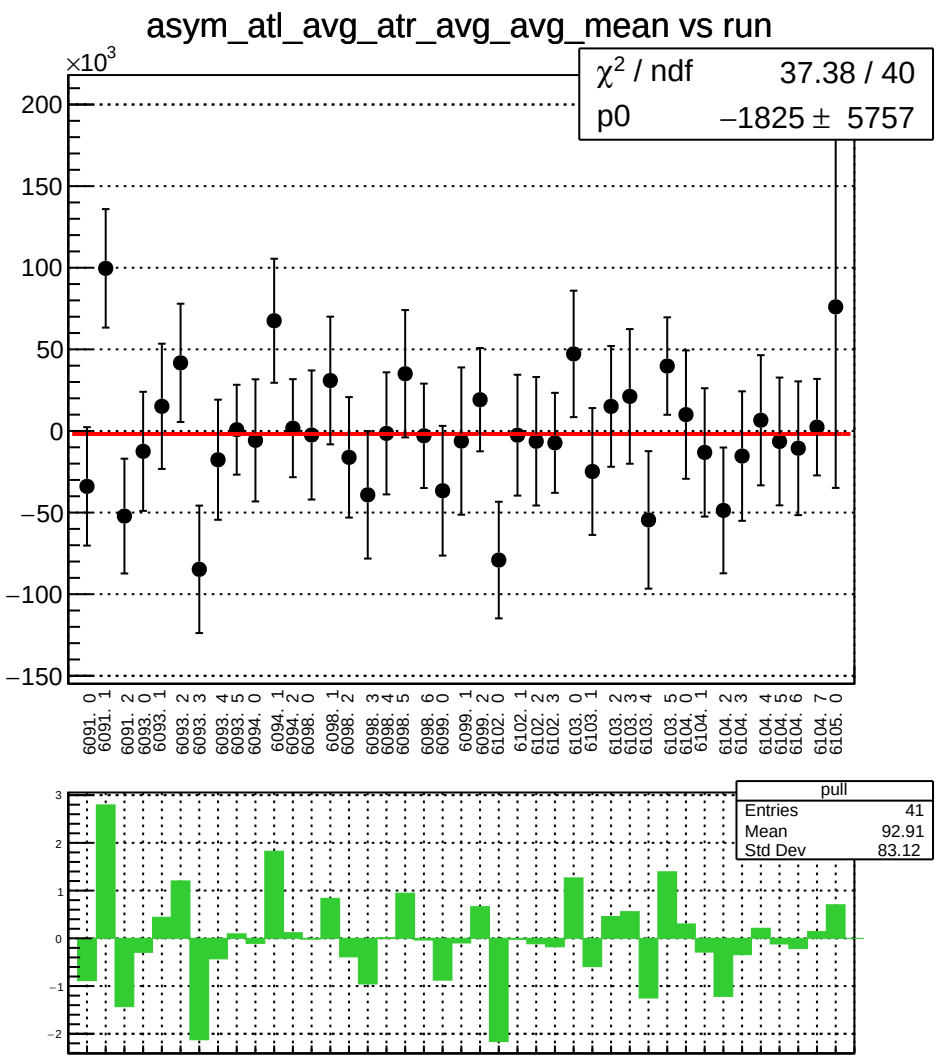

asym_atr_dd_rms vs run
χ² / ndf 3616 / 40
p0 4505 ± 5.017
7000
6500
6000
5500
5000
4500
4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

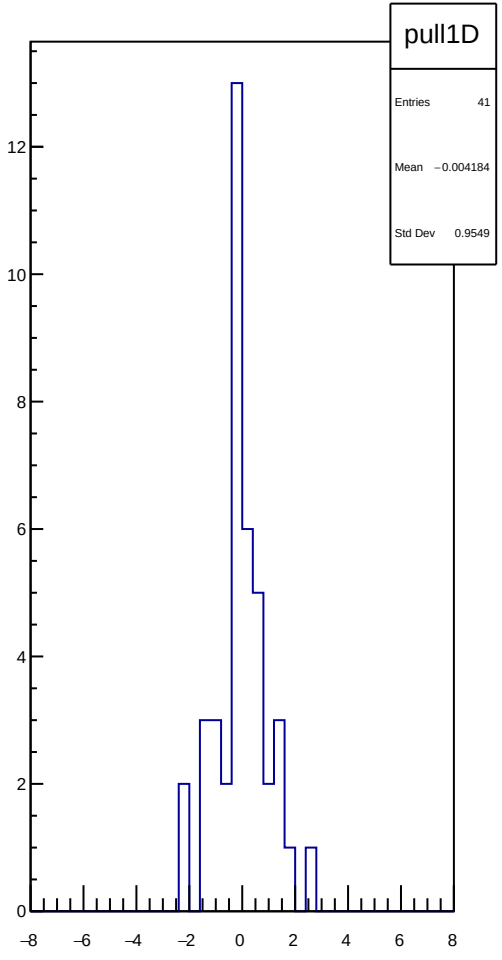

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 54.41 / 40
p0 1827 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 71.29
Std Dev 49.51
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01924
Std Dev 1.152
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

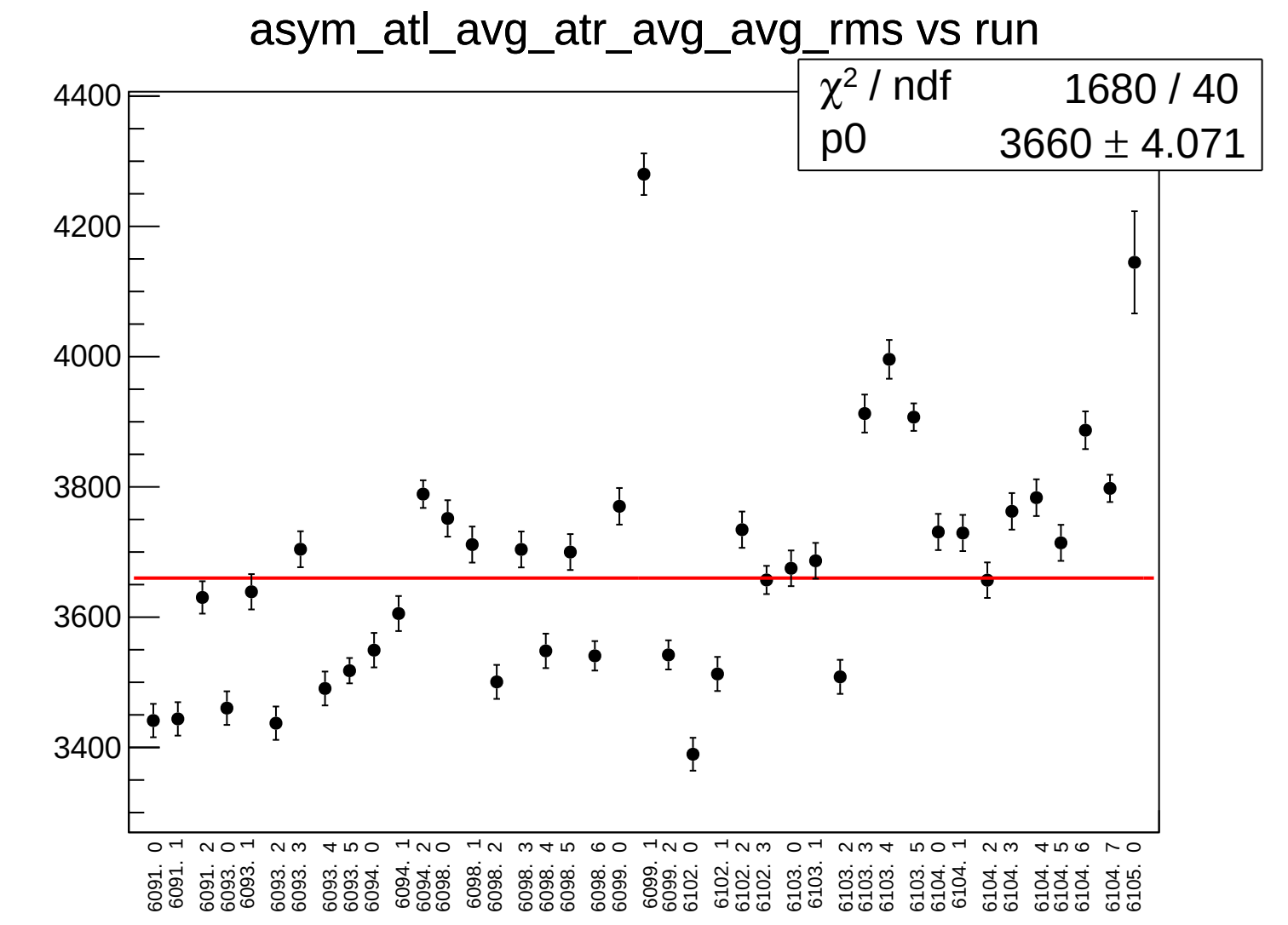

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5988 / 40
p0 1257 ± 1.401
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

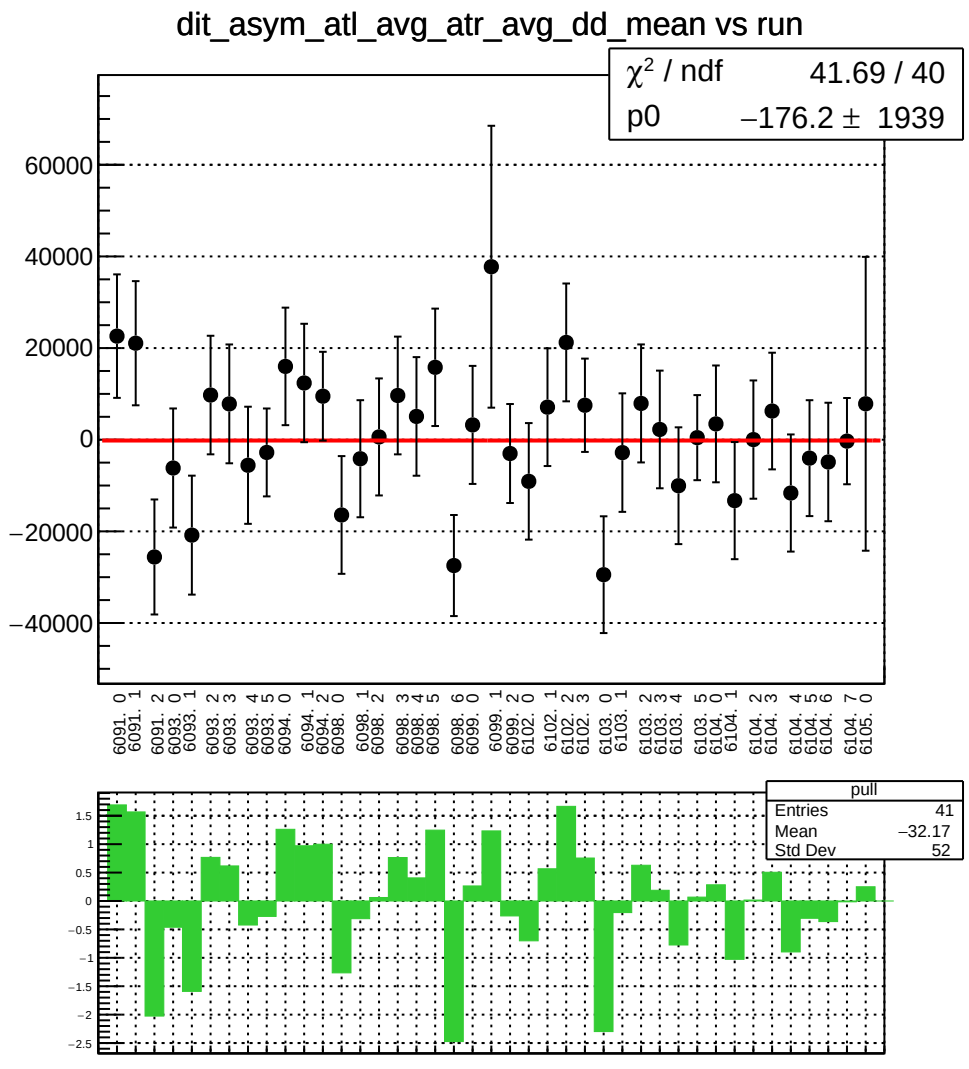

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 33.04 / 40
p0 3133 ± 5502
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −387.4
Std Dev 452.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0001549
Std Dev 0.8977
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

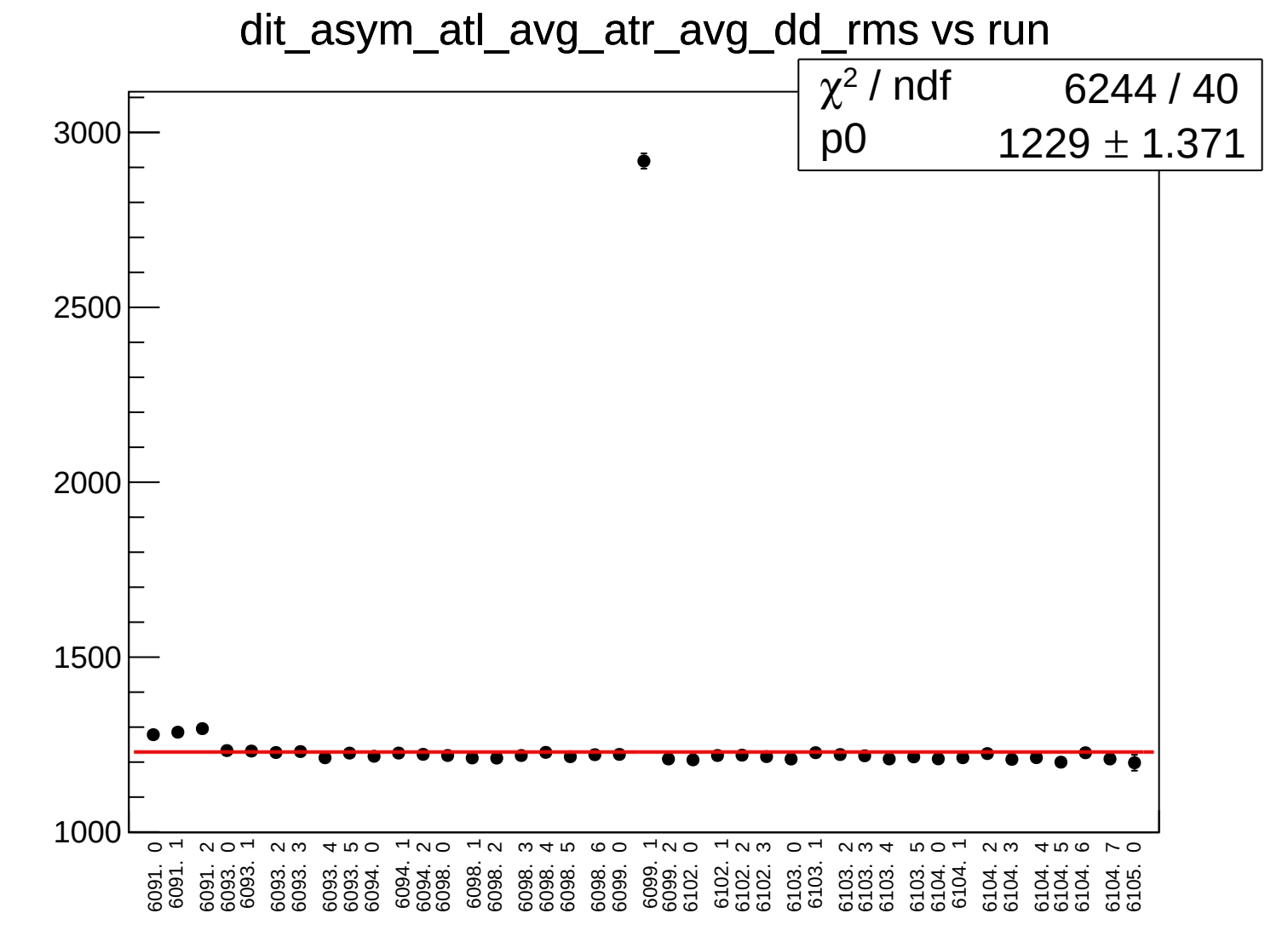

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 2434 / 40
p0 3496 ± 3.89
4200
4000
3800
3600
3400
3200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

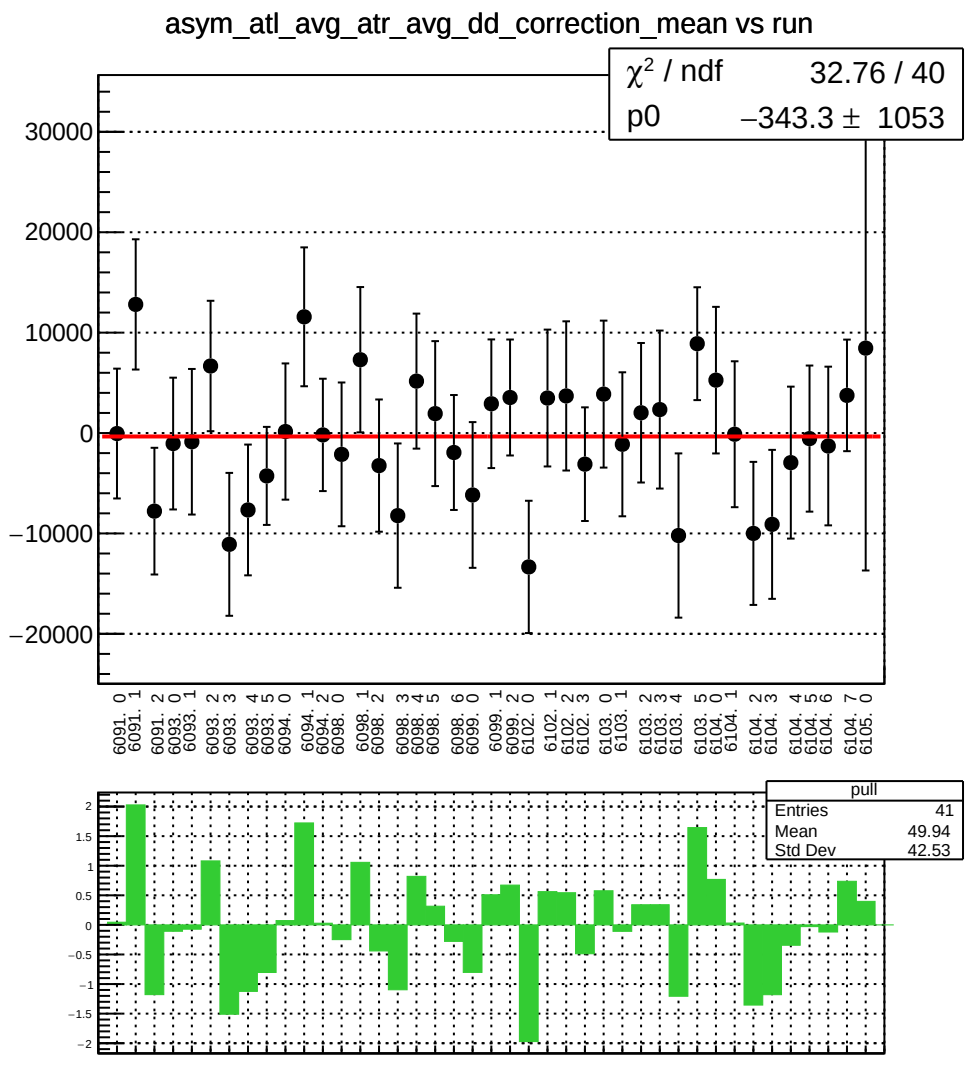

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 37.38 / 40
p0 −1825 ± 5757
×10³
200
150
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 92.91
Std Dev 83.12
3
2
1
0
−1
−2

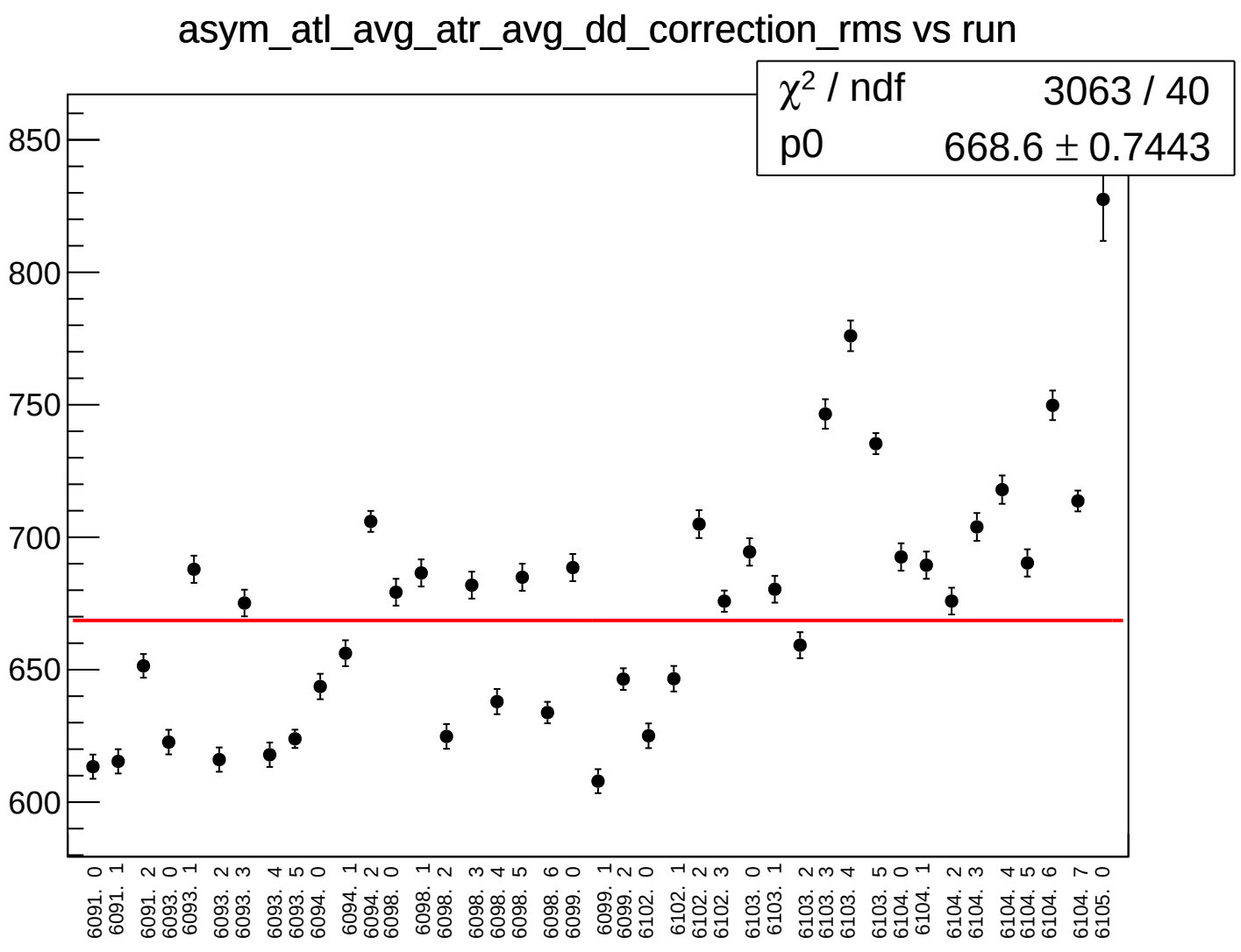

pull1D
Entries 41
Mean −0.004184
Std Dev 0.9549
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

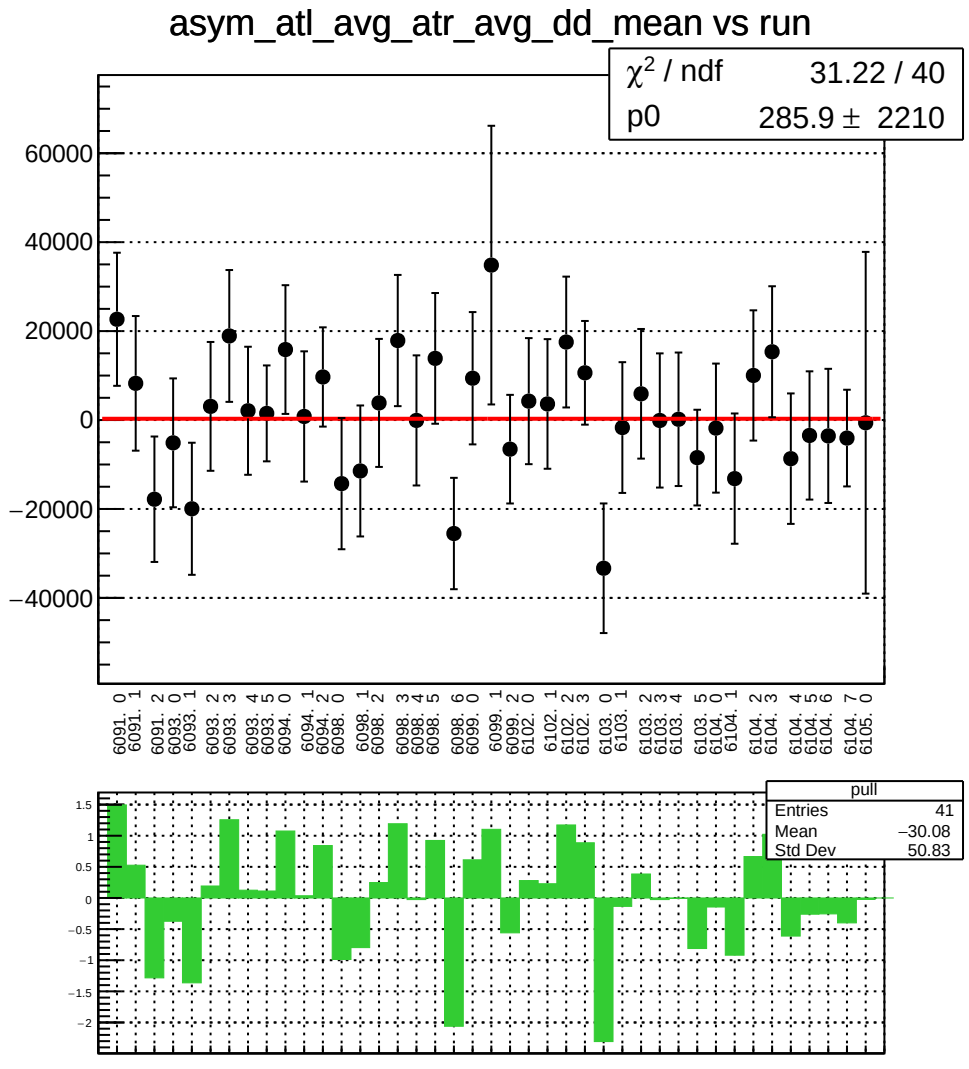

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1680 / 40
p0 3660 ± 4.071
4400
4200
4000
3800
3600
3400
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

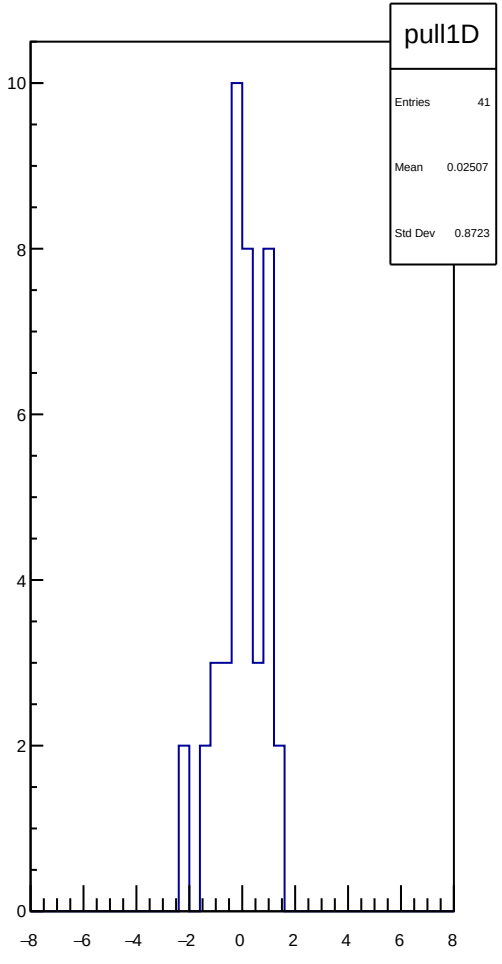

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 41.69 / 40
p0 −176.2 ± 1939
60000
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −32.17
Std Dev 52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.02724
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

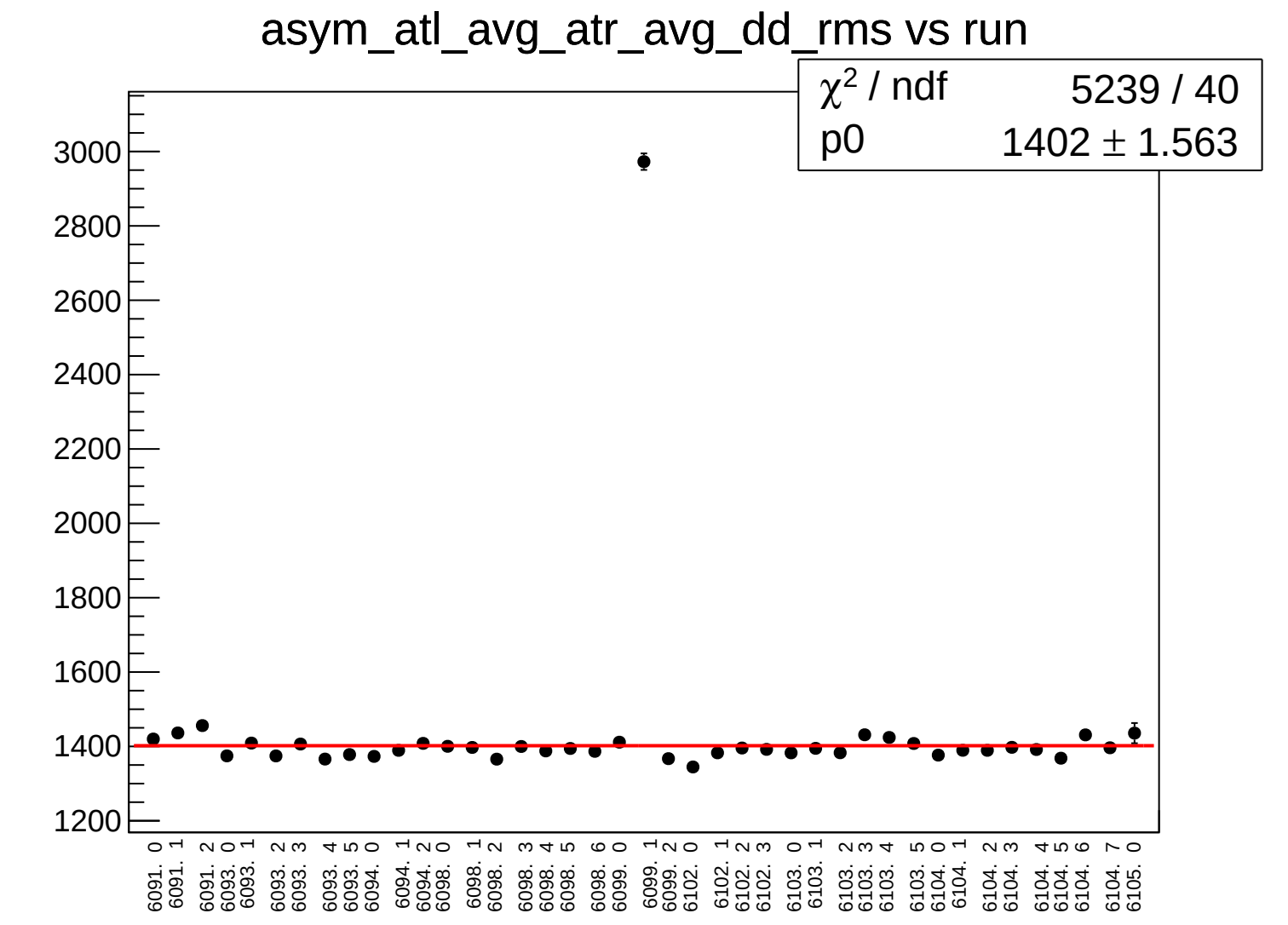

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6244 / 40
p0 1229 ± 1.371
3000
2500
2000
1500
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

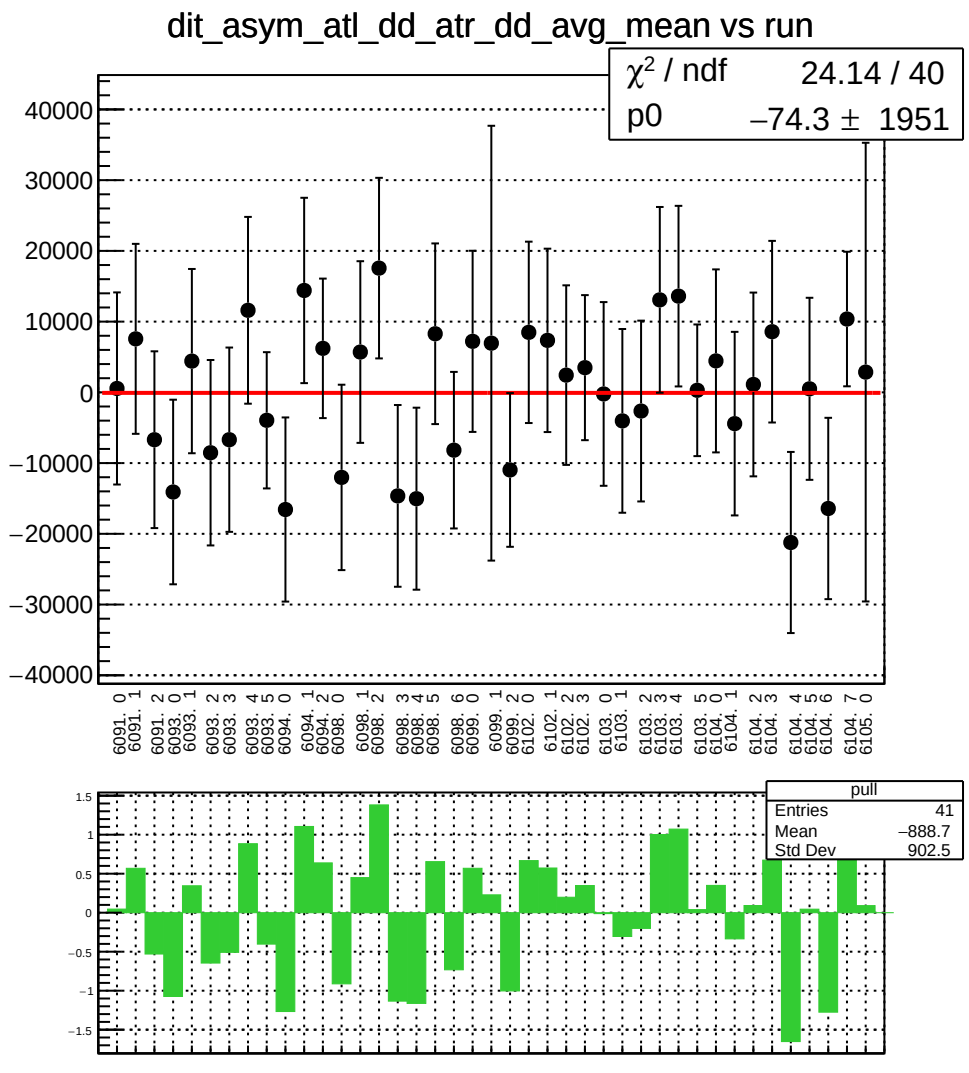

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 32.76 / 40
p0 −343.3 ± 1053
30000
20000
10000
0
−10000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 49.94
Std Dev 42.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.004201
Std Dev 0.8939
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

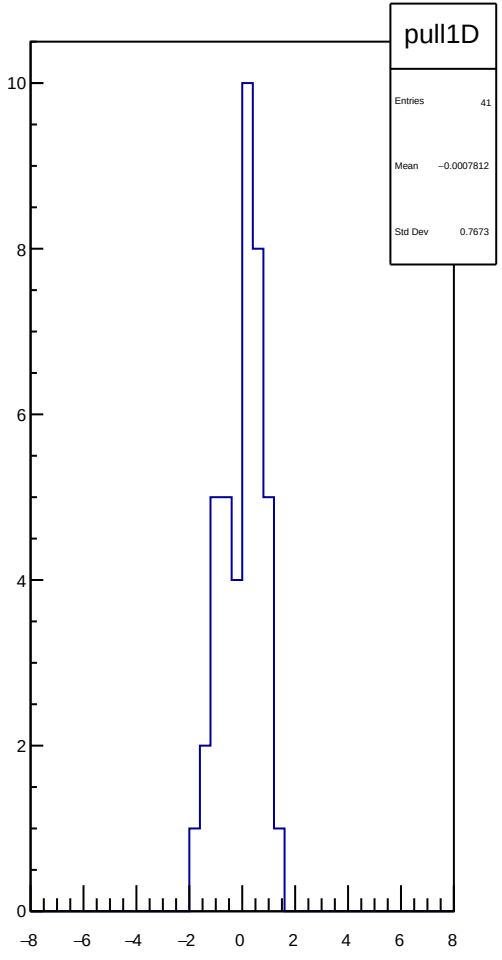

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 3063 / 40
p0 668.6 ± 0.7443
850
800
750
700
650
600
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

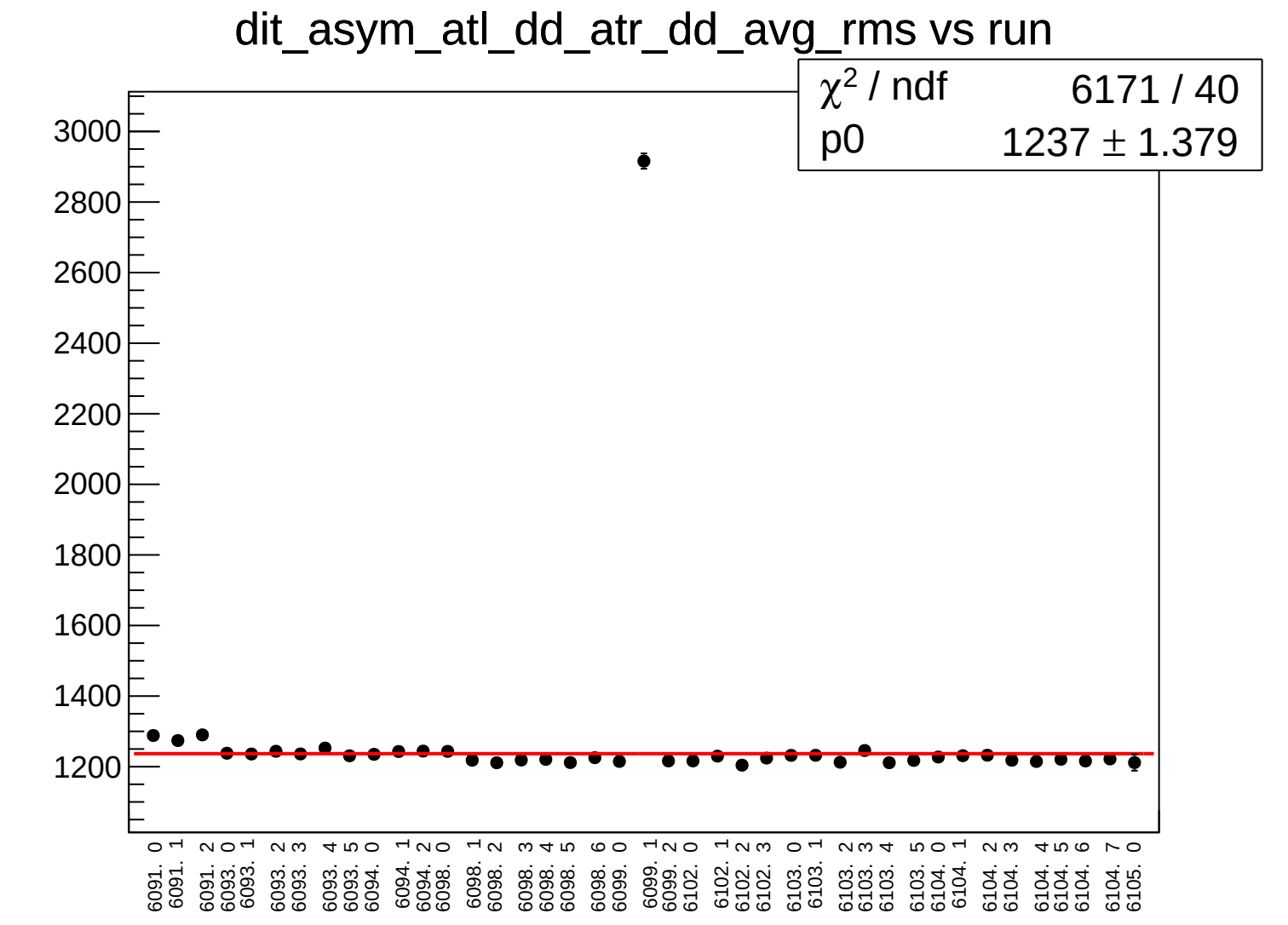

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 31.22 / 40
p0 285.9 ± 2210
60000
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −30.08
Std Dev 50.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2

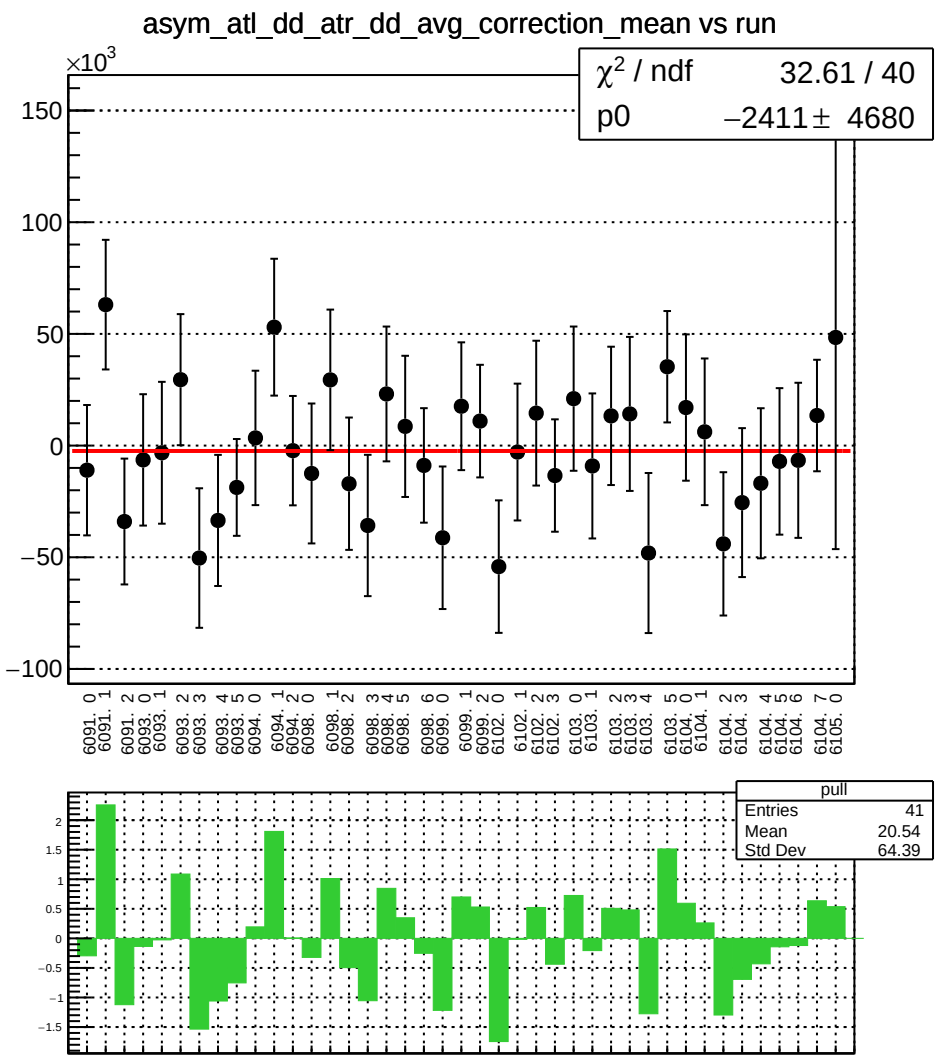

pull1D
Entries 41
Mean 0.02507
Std Dev 0.8723
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

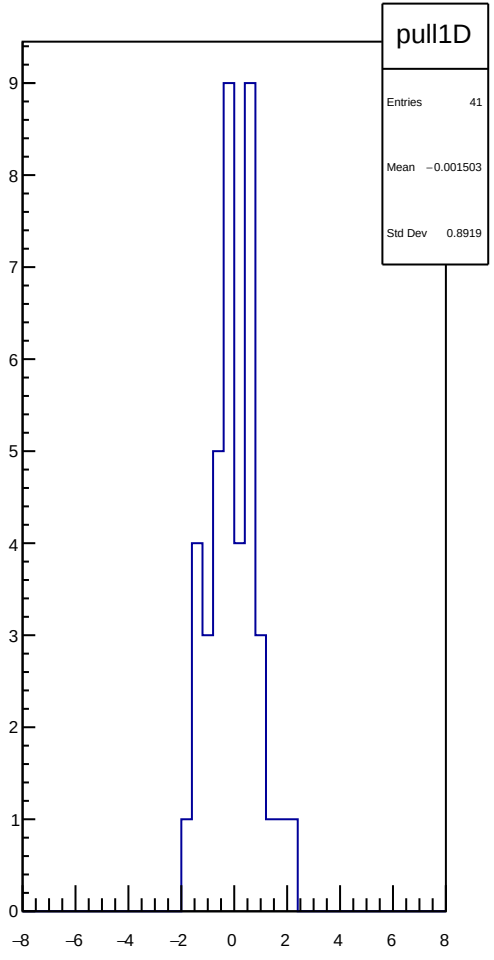

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5239 / 40
p0 1402 ± 1.563
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

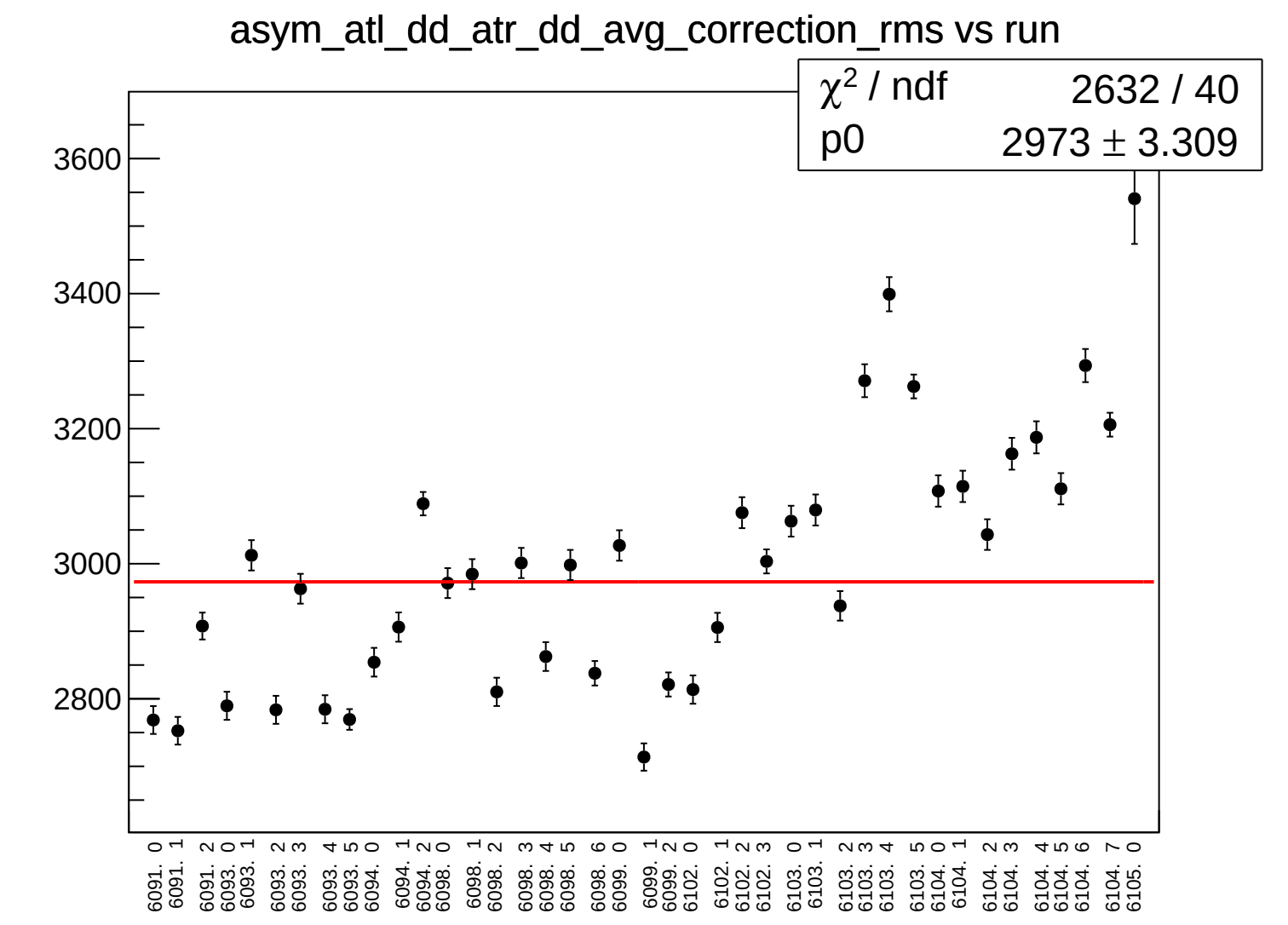

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 24.14 / 40
p0 −74.3 ± 1951
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −888.7
Std Dev 902.5
1.5
1
0.5
0
−0.5
−1
−1.5

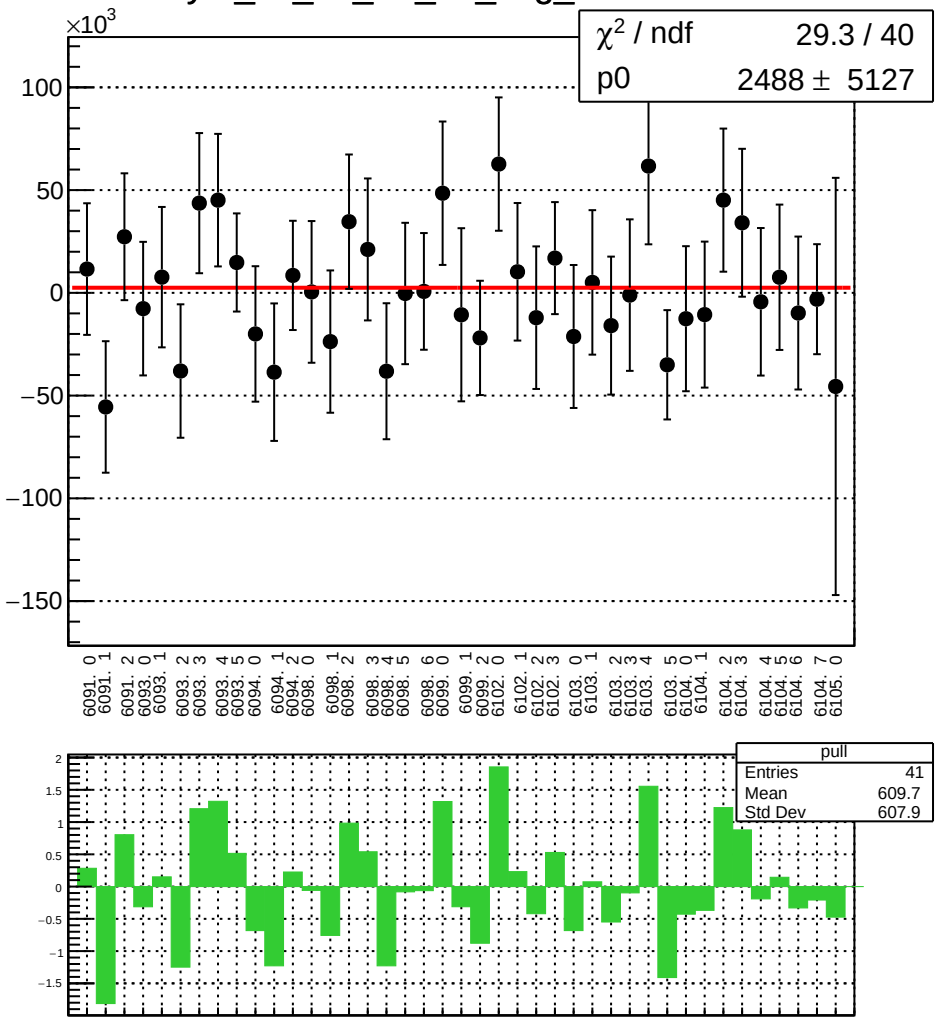

pull1D
Entries 41
Mean −0.0007812
Std Dev 0.7673
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

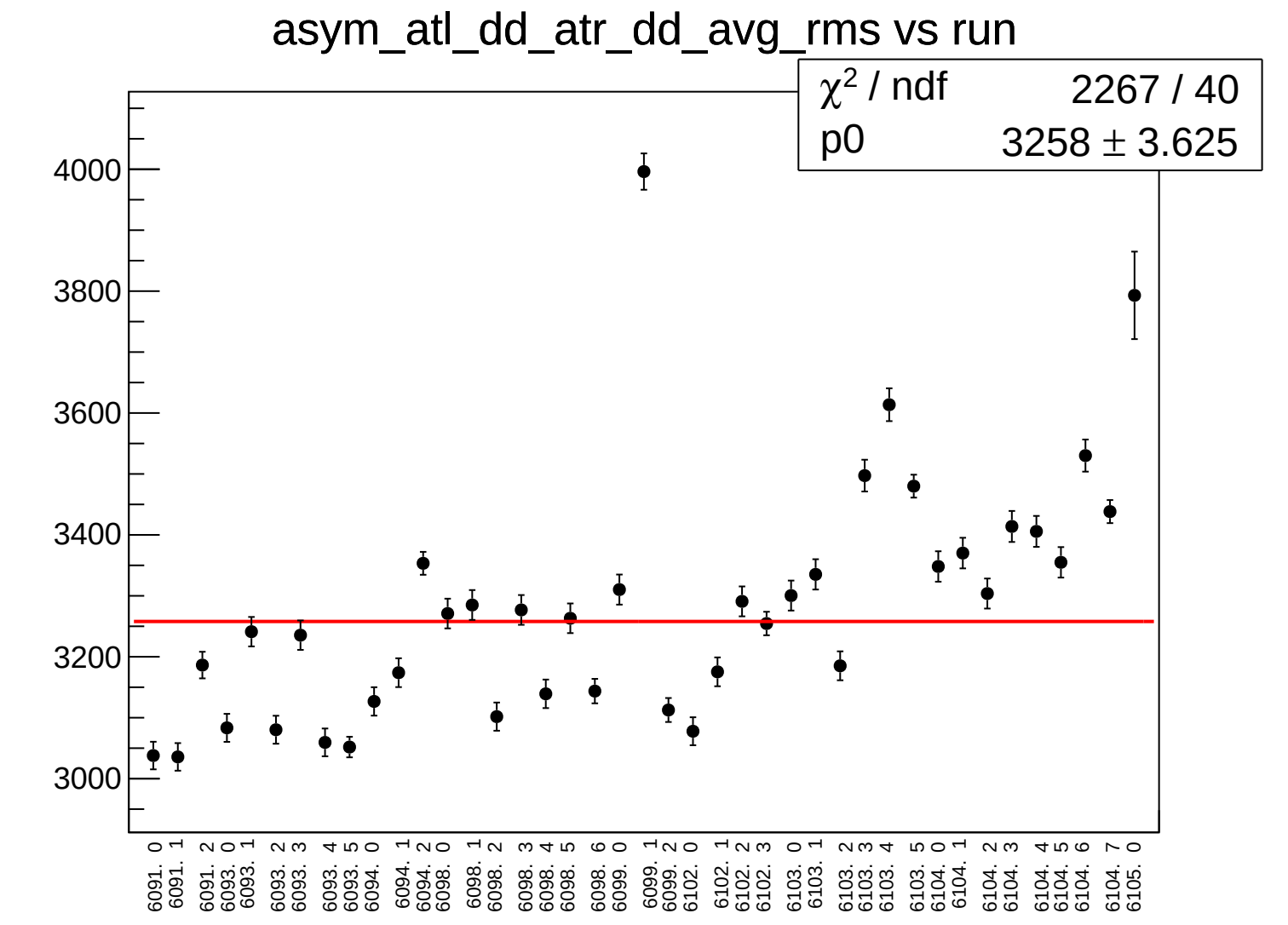

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6171 / 40
p0 1237 ± 1.379
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

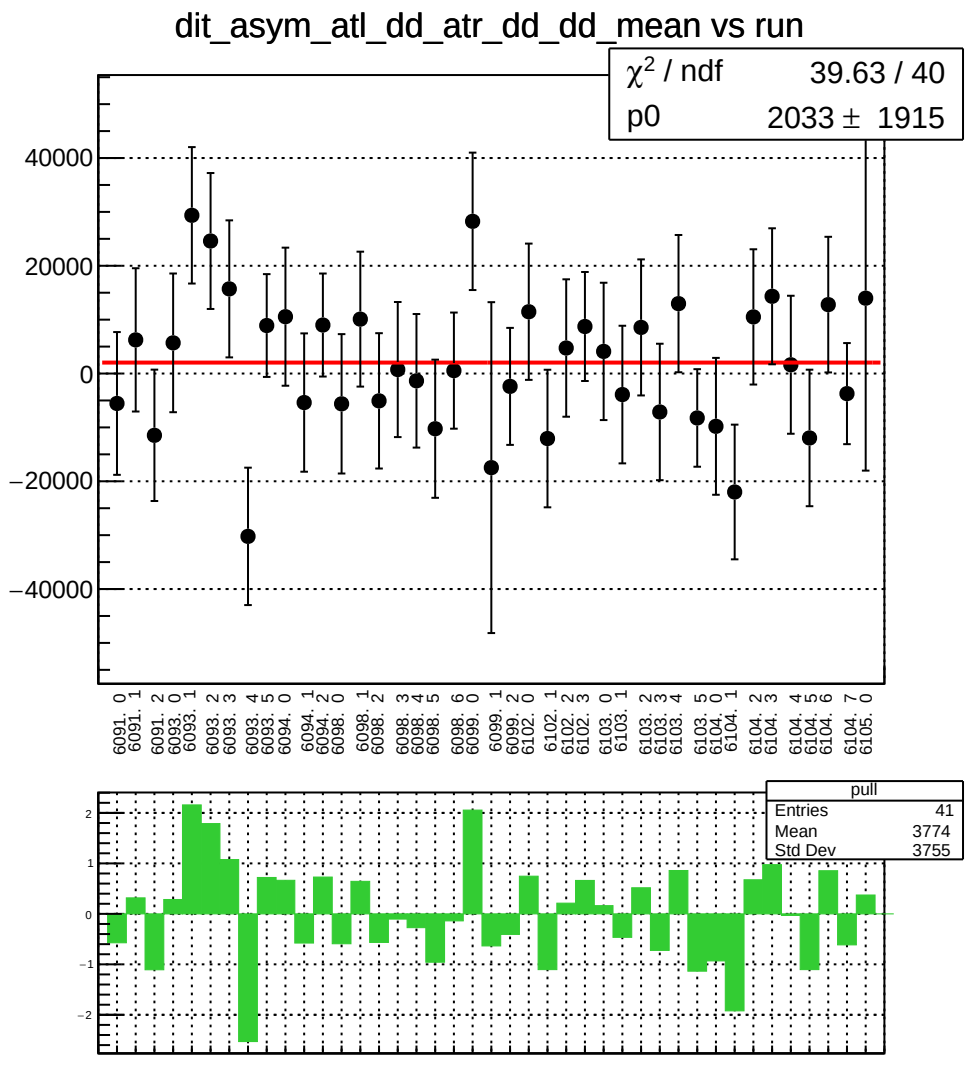

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ^2 / ndf 32.61 / 40
p0 −2411 ± 4680
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 20.54
Std Dev 64.39
2
1.5
1
0.5
0
−0.5
−1
−1.5

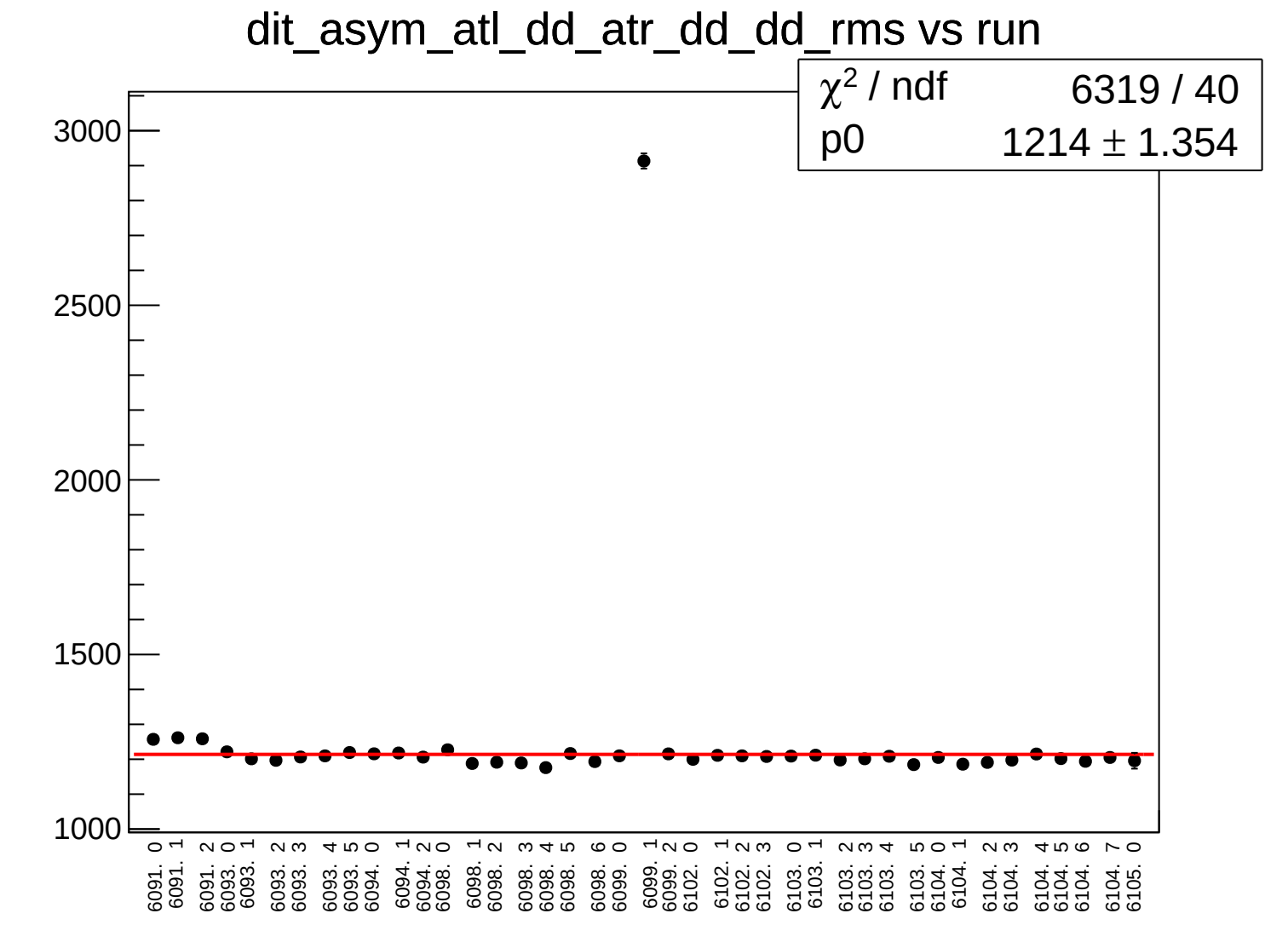

pull1D
Entries 41
Mean −0.001503
Std Dev 0.8919
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 2632 / 40
p0 2973 ± 3.309
3600
3400
3200
3000
2800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

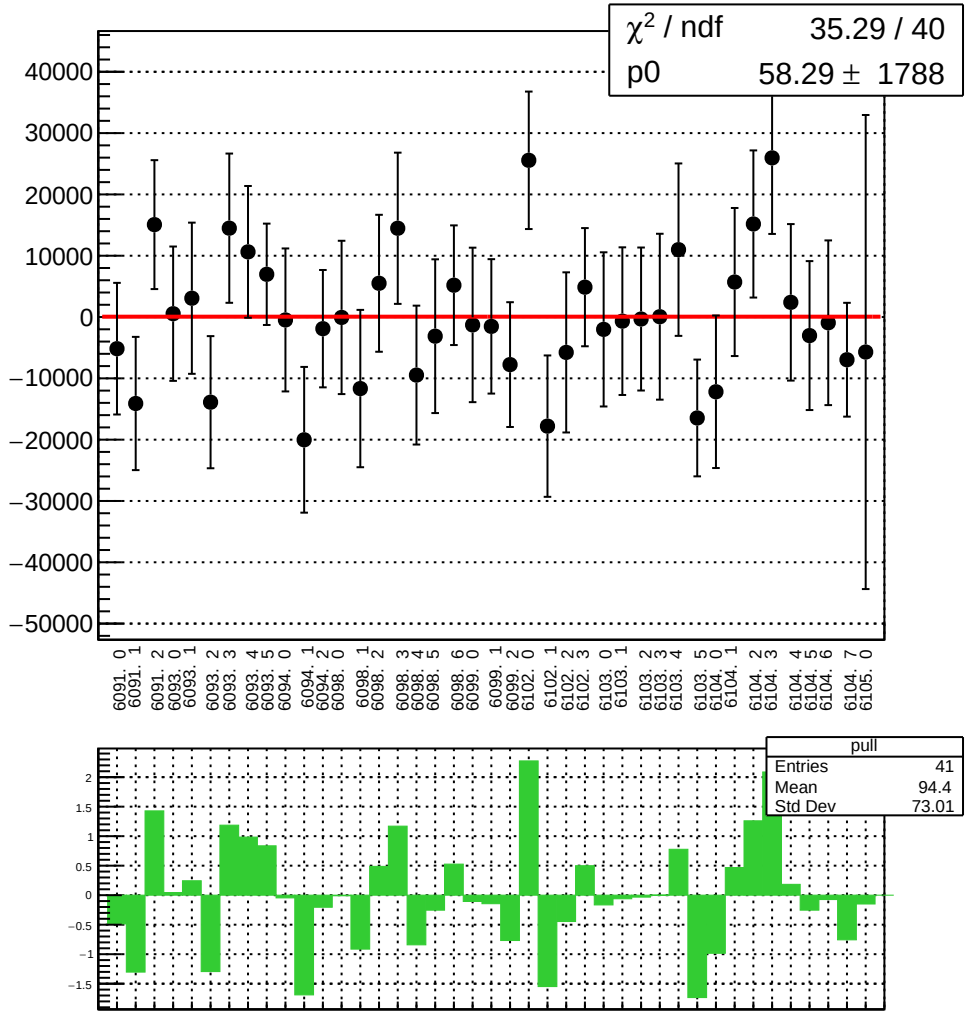

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 29.3 / 40
p0 2488 ± 5127
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 609.7
Std Dev 607.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0004426
Std Dev 0.8454
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

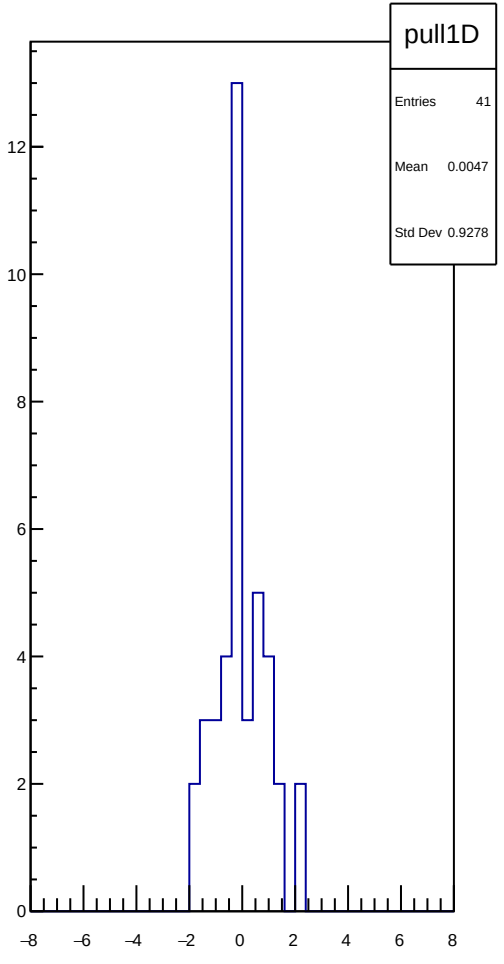

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2267 / 40
p0 3258 ± 3.625
4000
3800
3600
3400
3200
3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

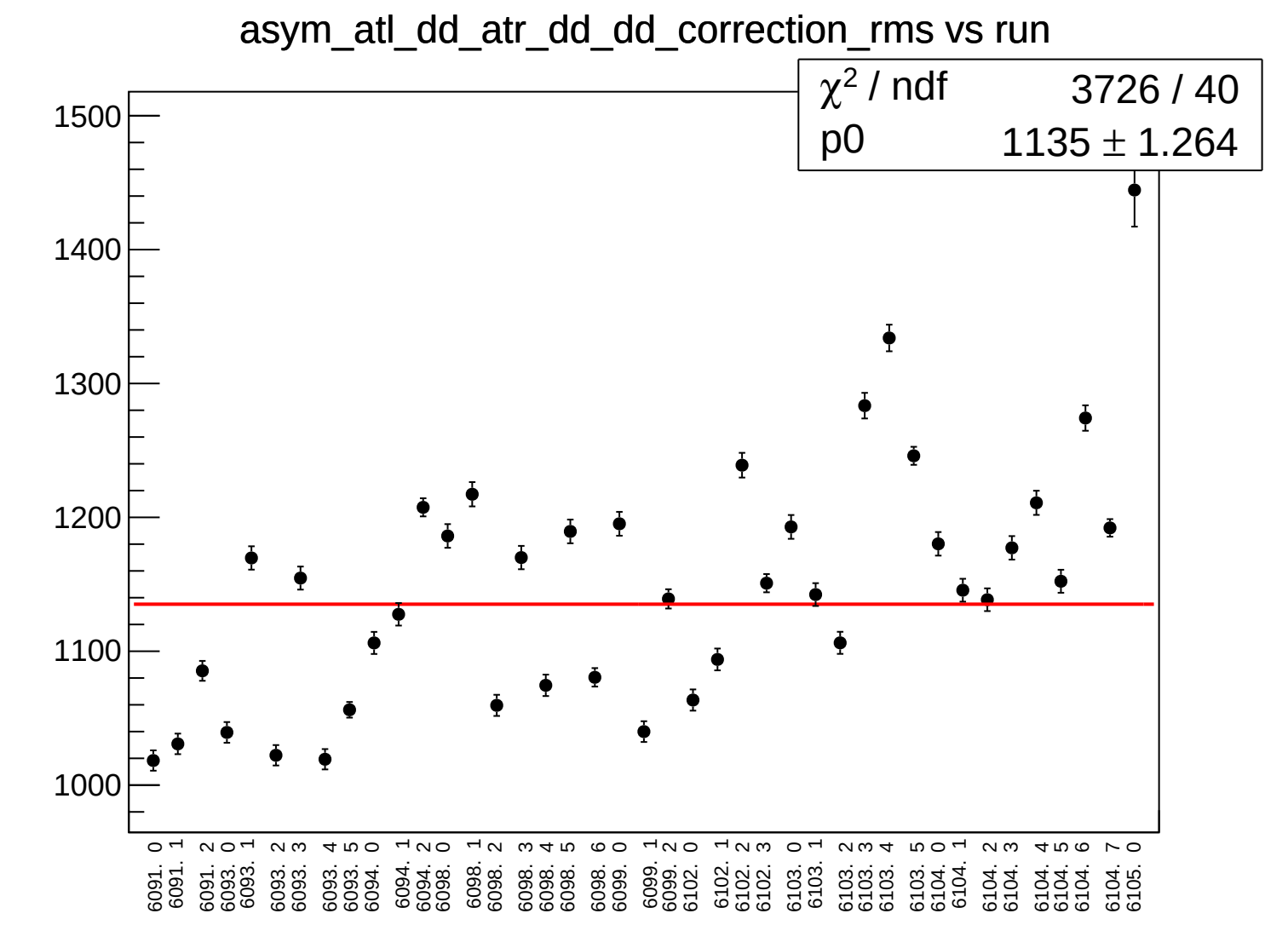

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 39.63 / 40
p0 2033 ± 1915
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 3774
Std Dev 3755
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.0003914
Std Dev 0.9832
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

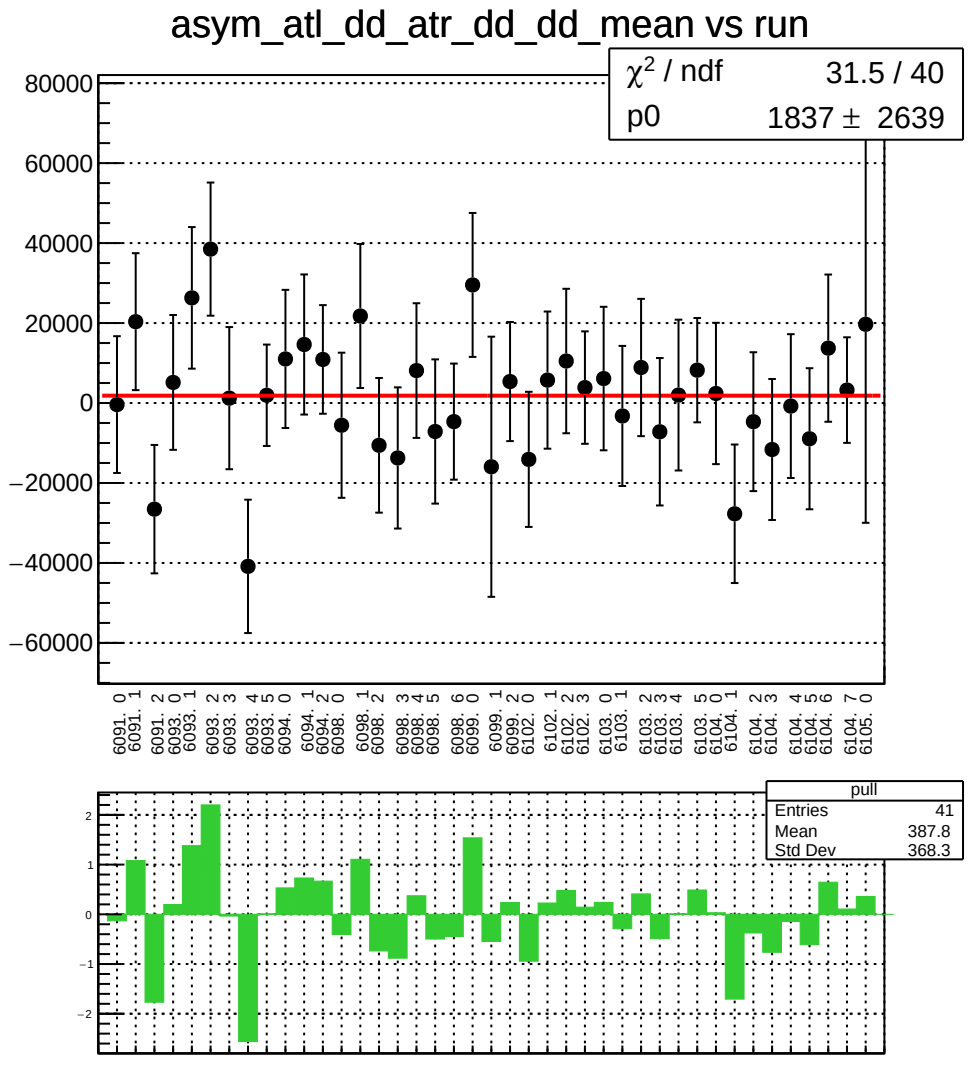

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6319 / 40
p0 1214 ± 1.354
3000
2500
2000
1500
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

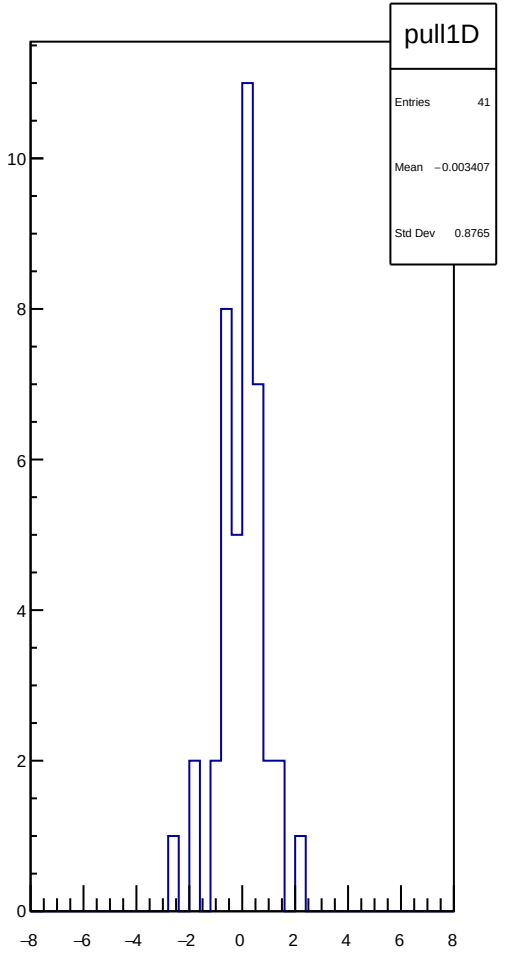
asym_atl_dd_atr_dd_dd_correction_mean vs run

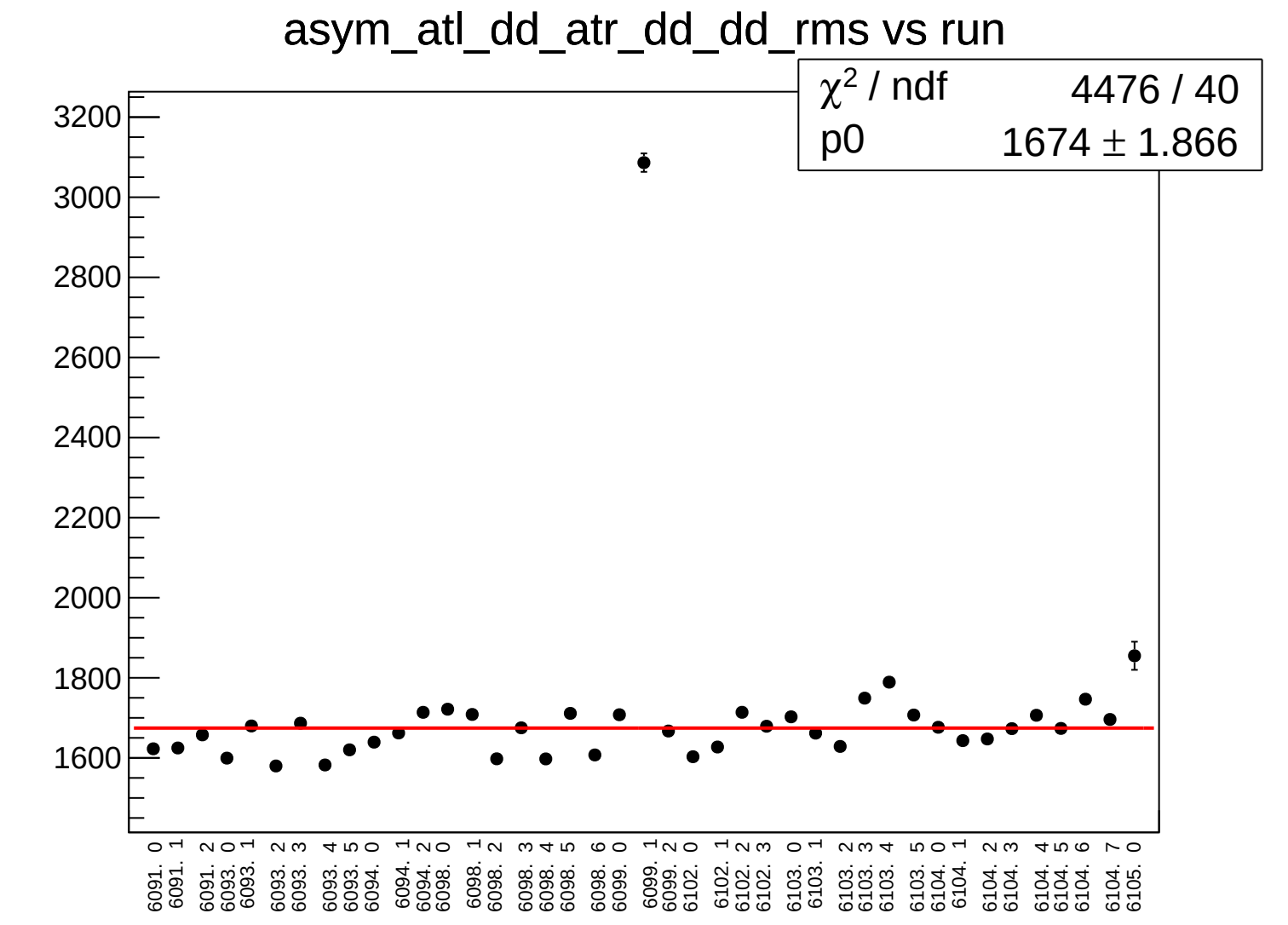


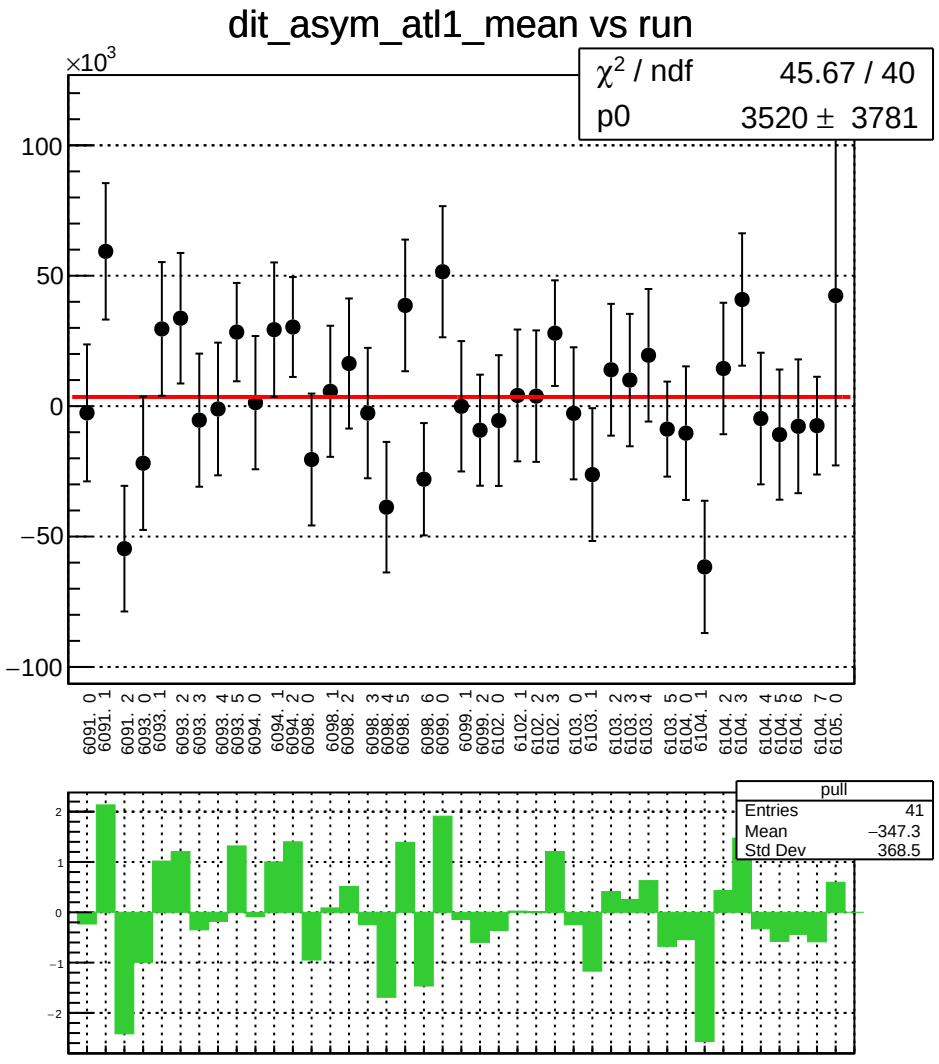


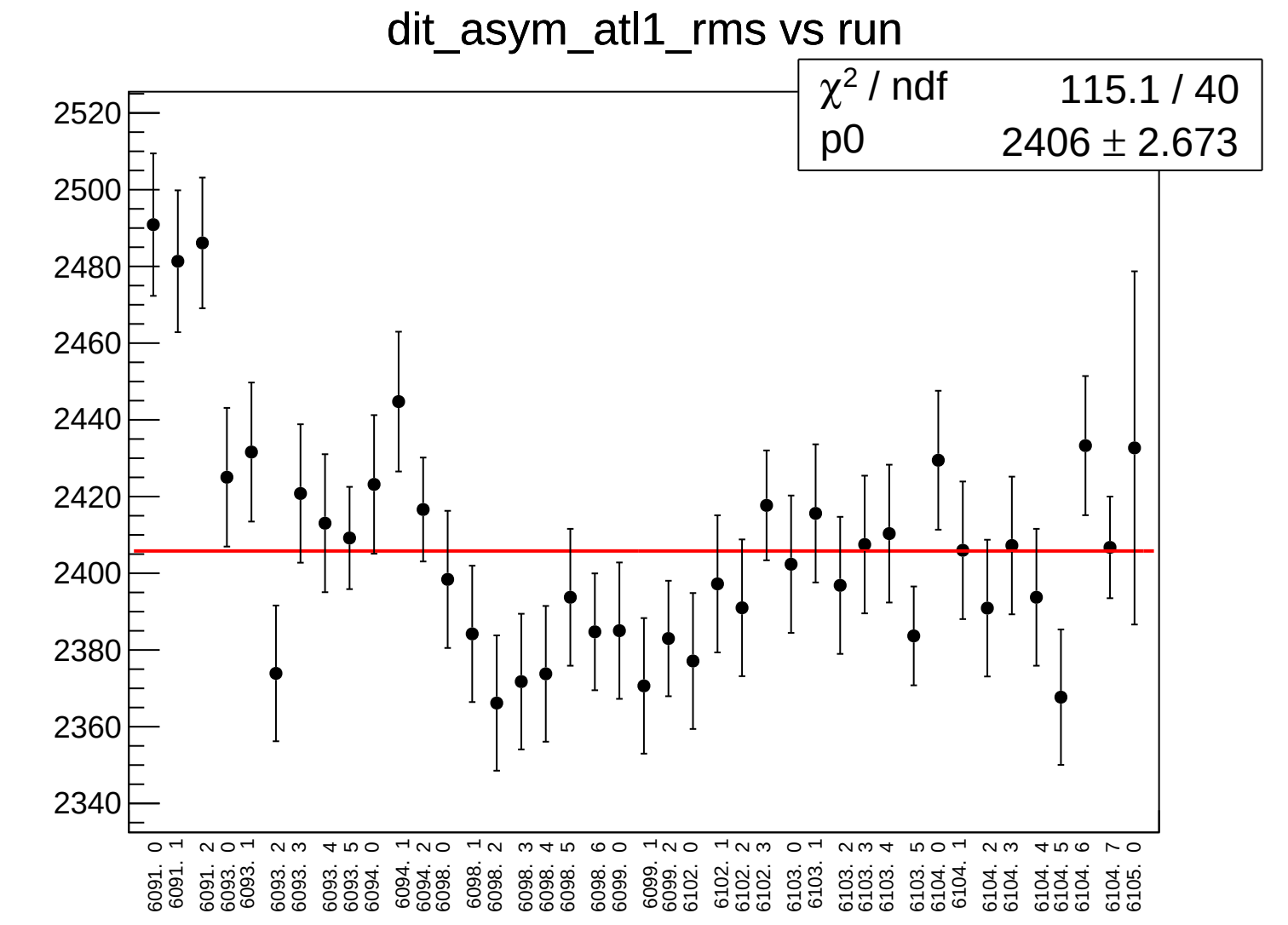

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 3726 / 40
p0 1135 ± 1.264
1500
1400
1300
1200
1100
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

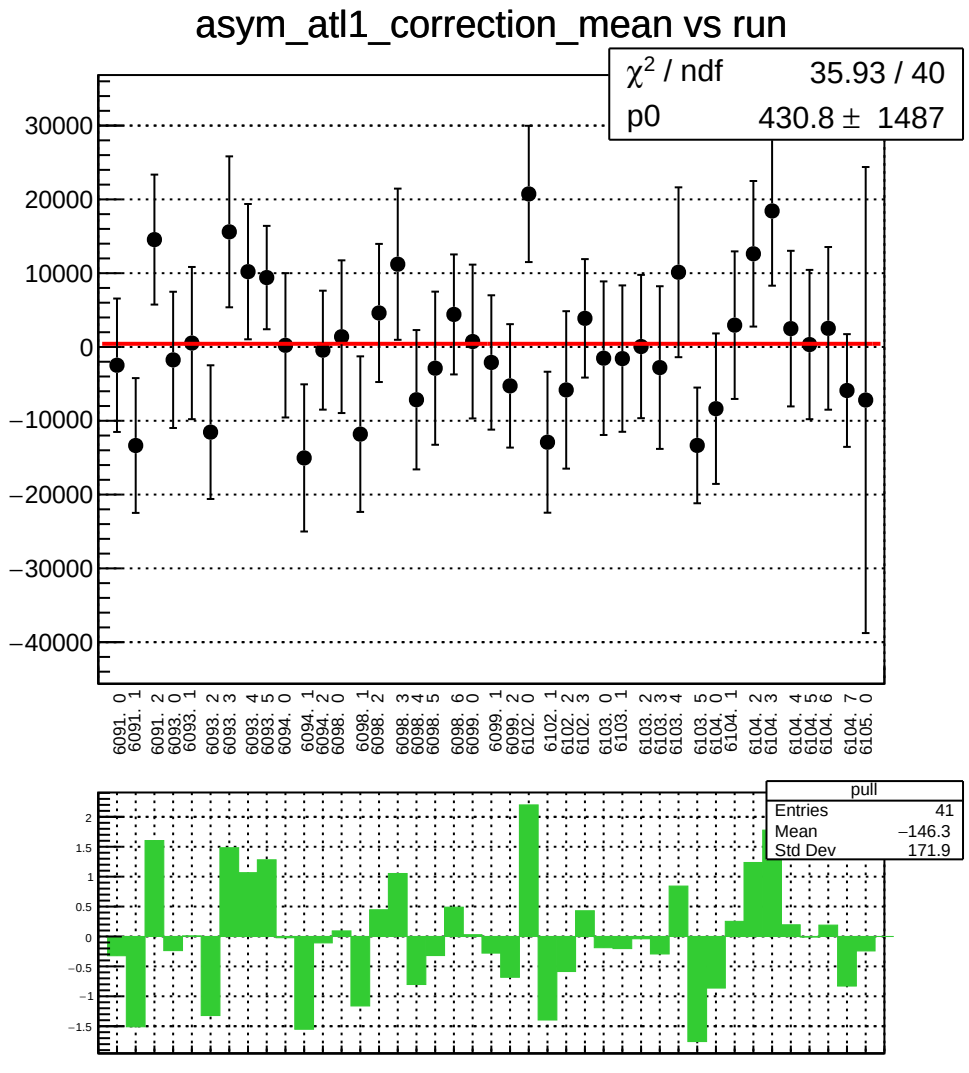

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 31.5 / 40
p0 1837 ± 2639
80000
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 387.8
Std Dev 368.3
2
1
0
−1
−2

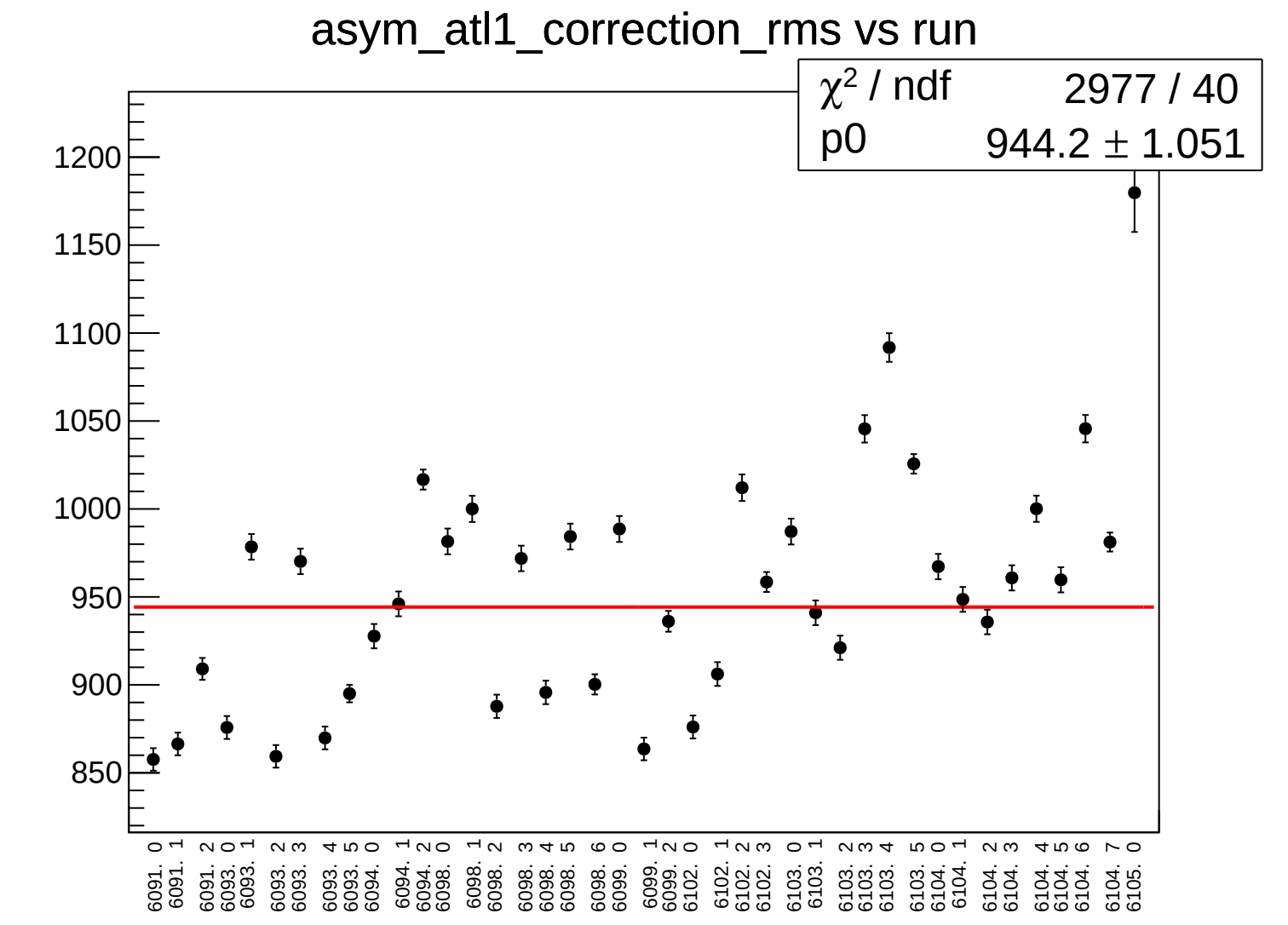

pull1D
Entries 41
Mean −0.003407
Std Dev 0.8765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

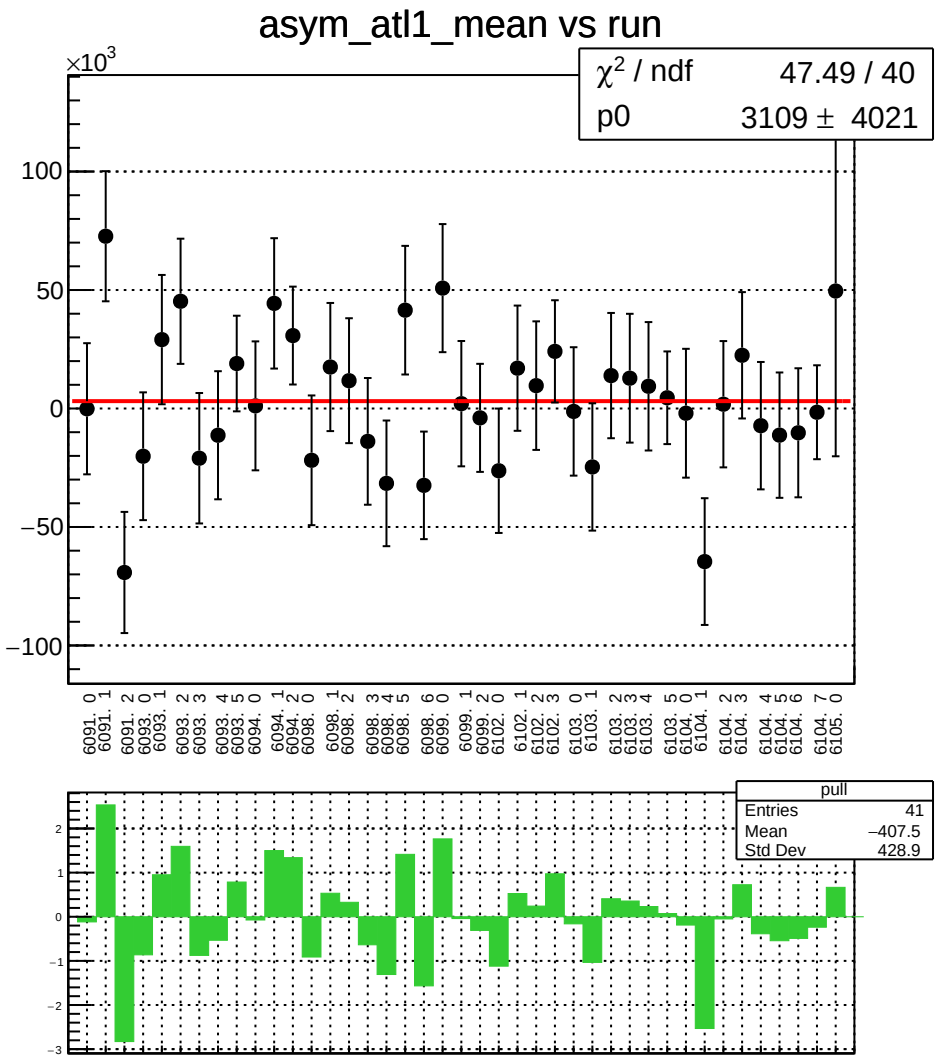

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4476 / 40
p0 1674 ± 1.866
3200
3000
2800
2600
2400
2200
2000
1800
1600
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

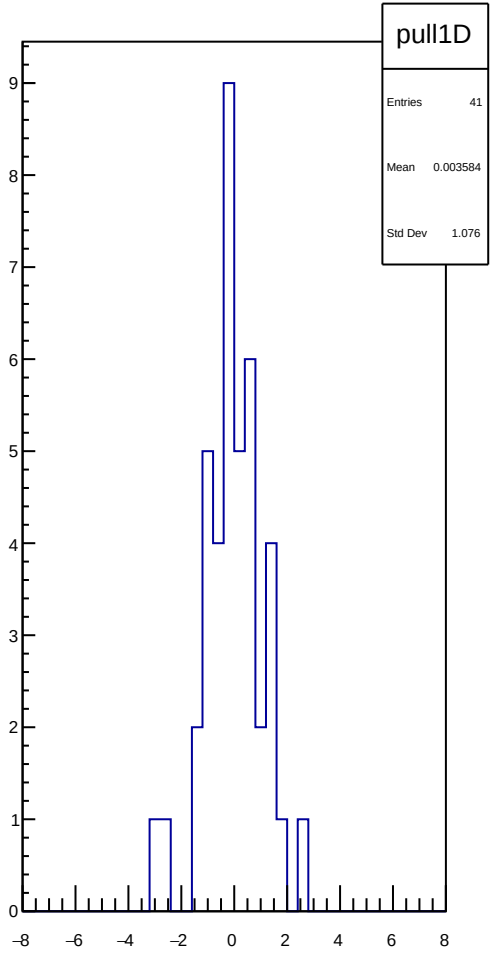

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 45.67 / 40
p0 3520 ± 3781
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −347.3
Std Dev 368.5
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.004361
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

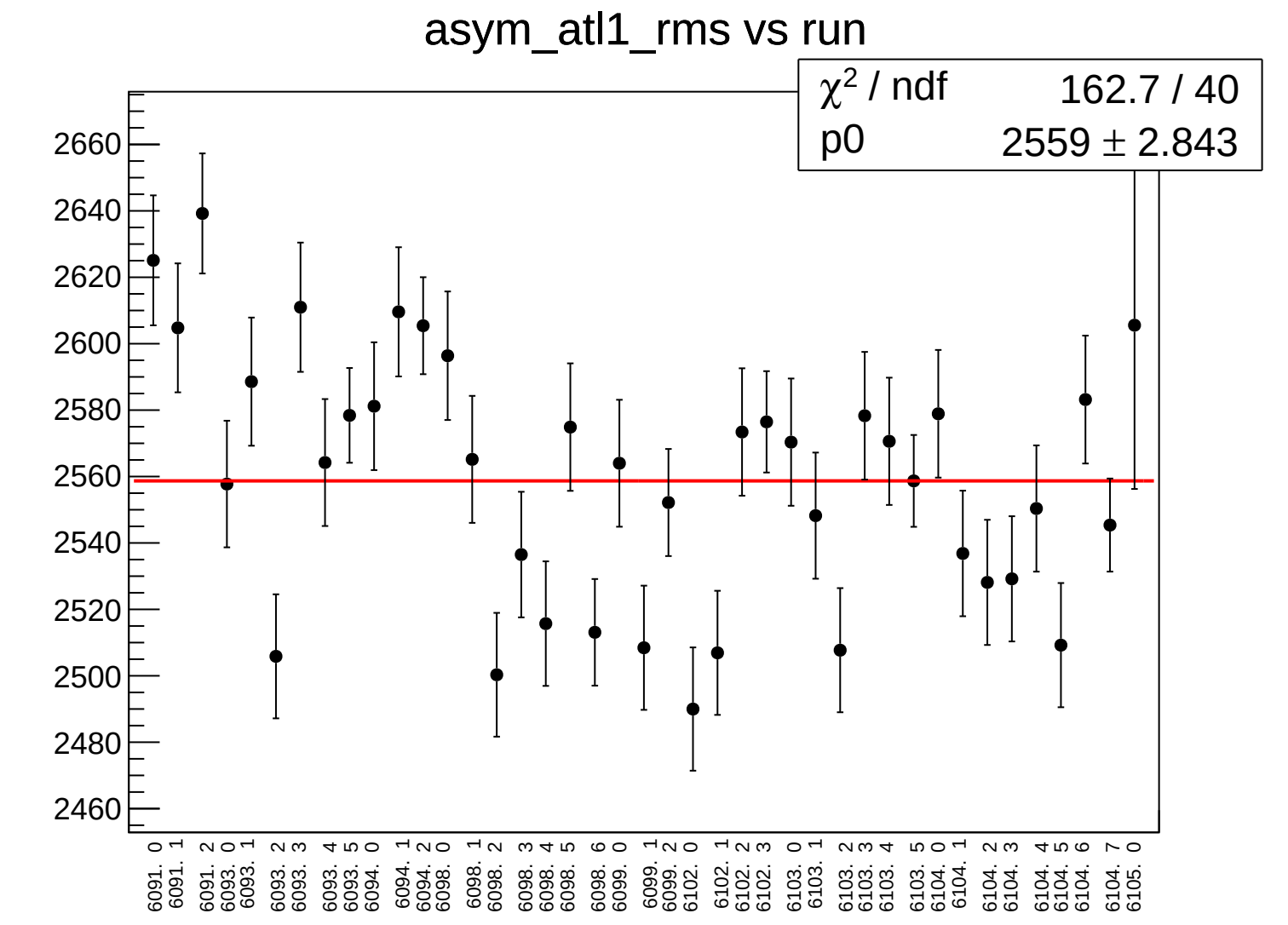

dit_asym_atl1_rms vs run
χ² / ndf 115.1 / 40
p0 2406 ± 2.673
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

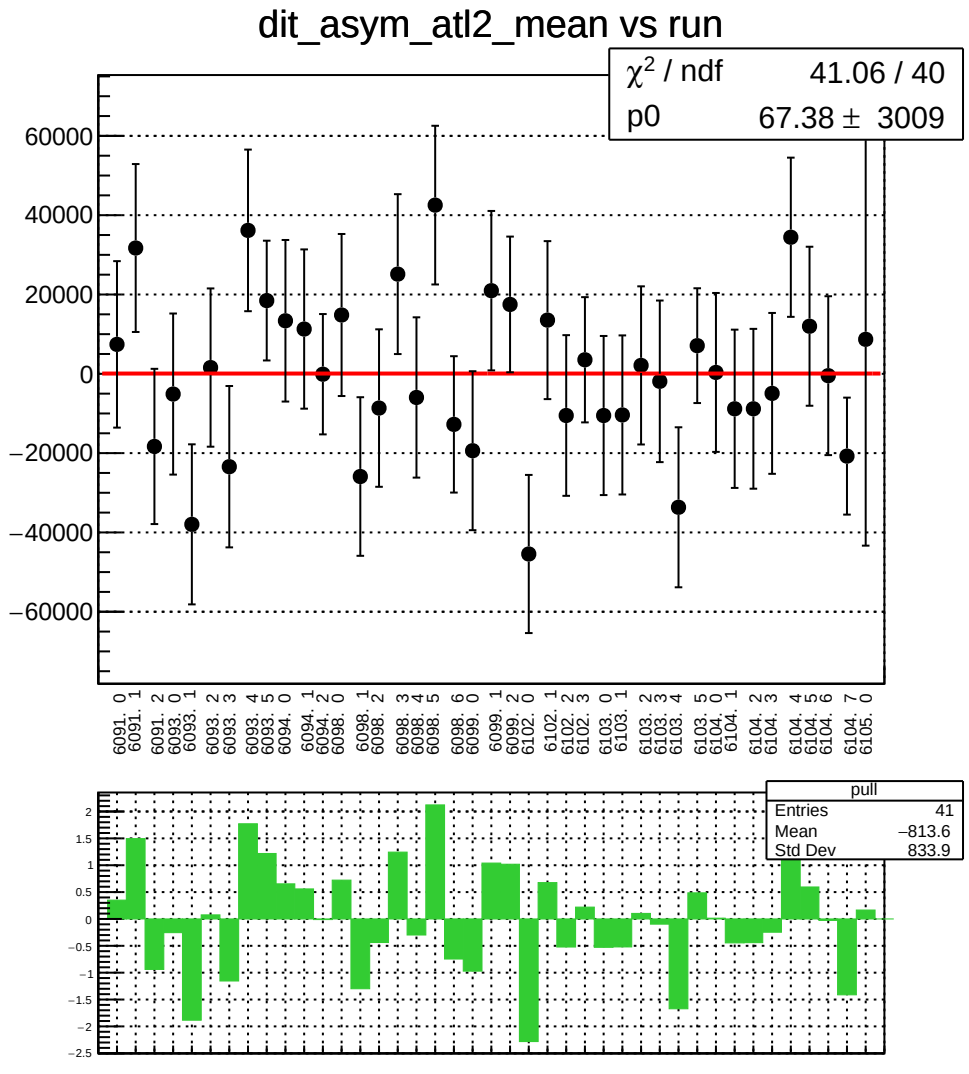

asym_atl1_correction_mean vs run
χ² / ndf 35.93 / 40
p0 430.8 ± 1487
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −146.3
Std Dev 171.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0007137
Std Dev 0.9361
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

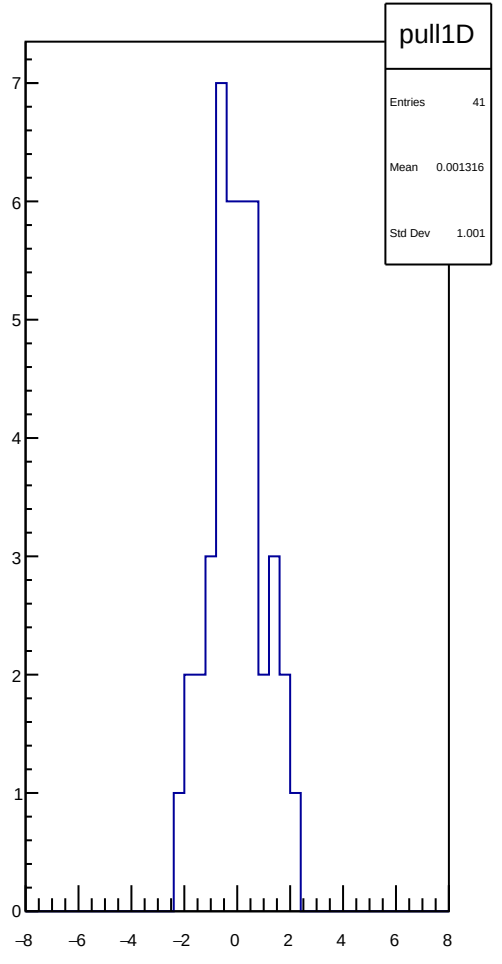

asym_atl1_correction_rms vs run
χ² / ndf 2977 / 40
p0 944.2 ± 1.051
1200
1150
1100
1050
1000
950
900
850
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

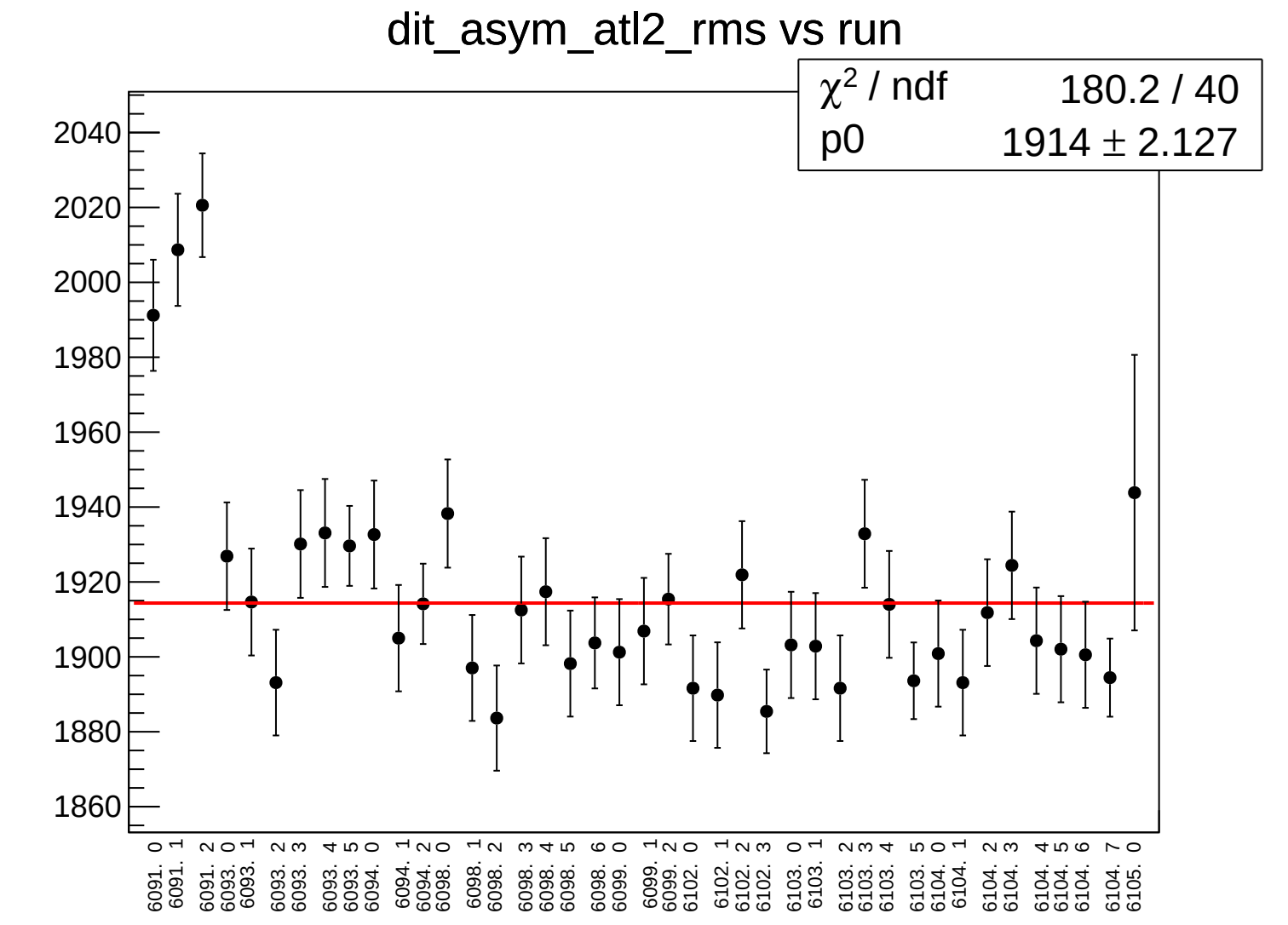

asym_atl1_mean vs run
×10^3
χ^2 / ndf 47.49 / 40
p0 3109 ± 4021
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −407.5
Std Dev 428.9
2
1
0
−1
−2
−3

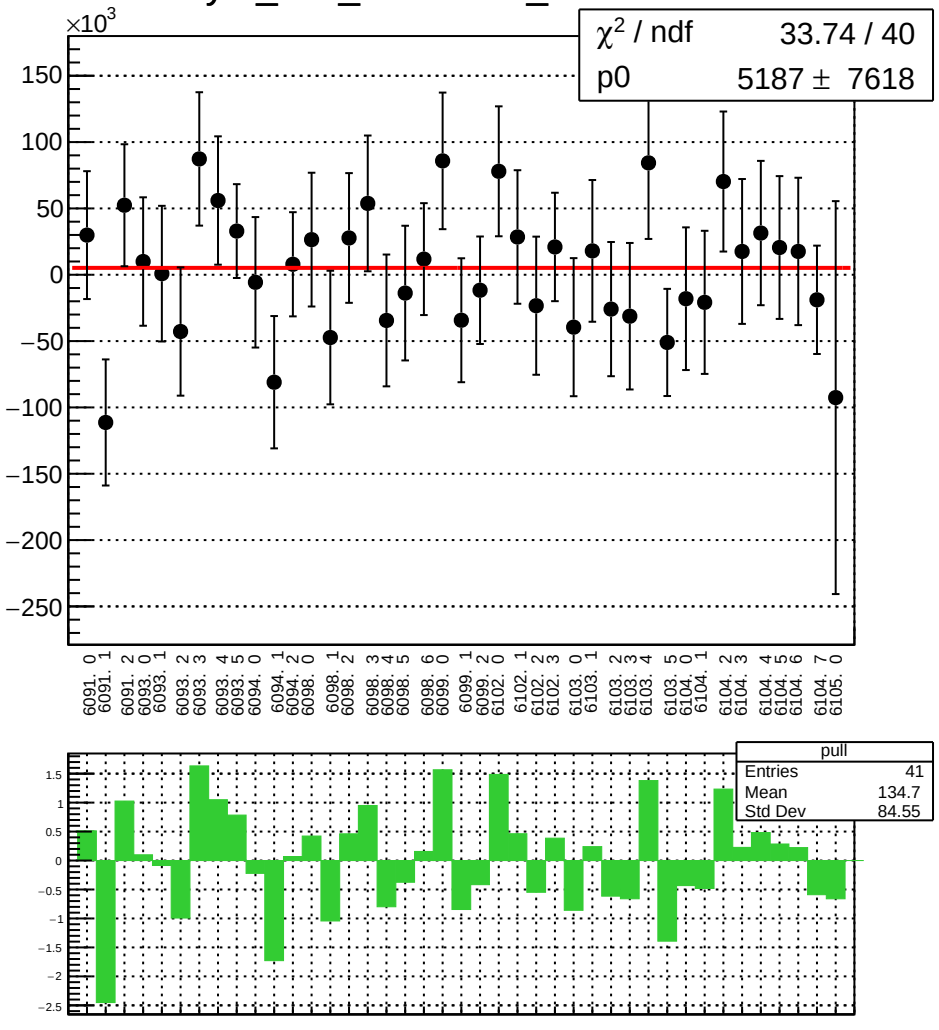

pull1D
Entries 41
Mean 0.003584
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

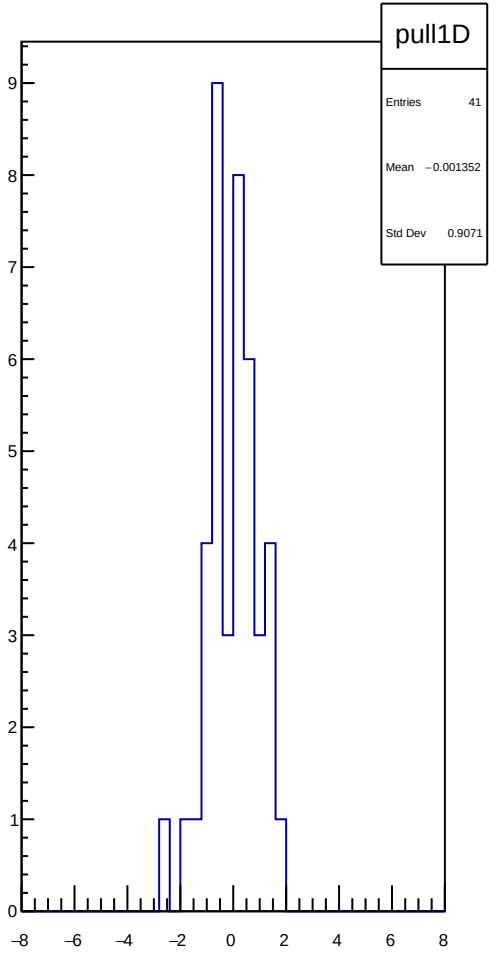

asym_atl1_rms vs run
χ² / ndf 162.7 / 40
p0 2559 ± 2.843
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

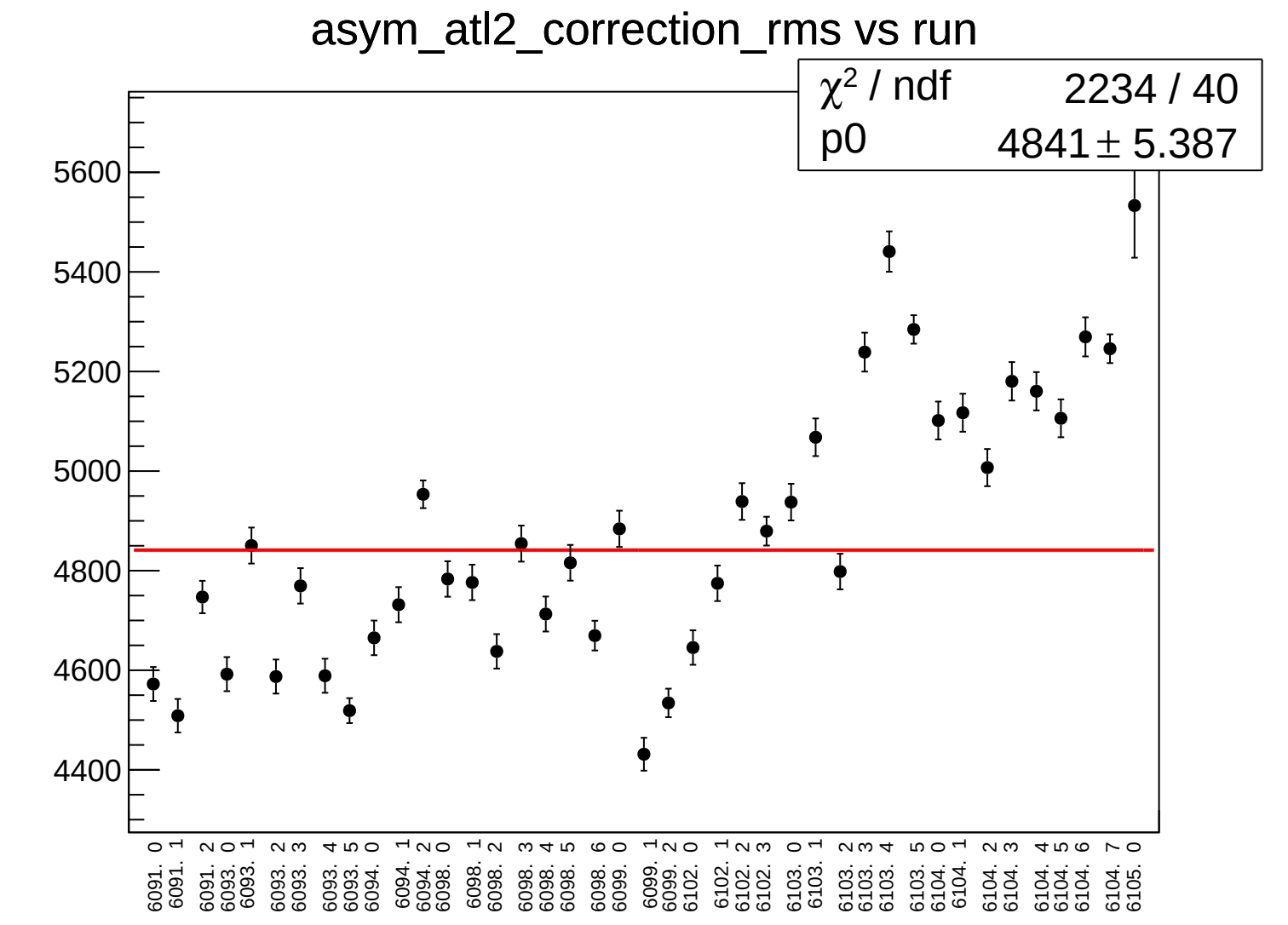

dit_asym_atl2_mean vs run
χ² / ndf 41.06 / 40
p0 67.38 ± 3009
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −813.6
Std Dev 833.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

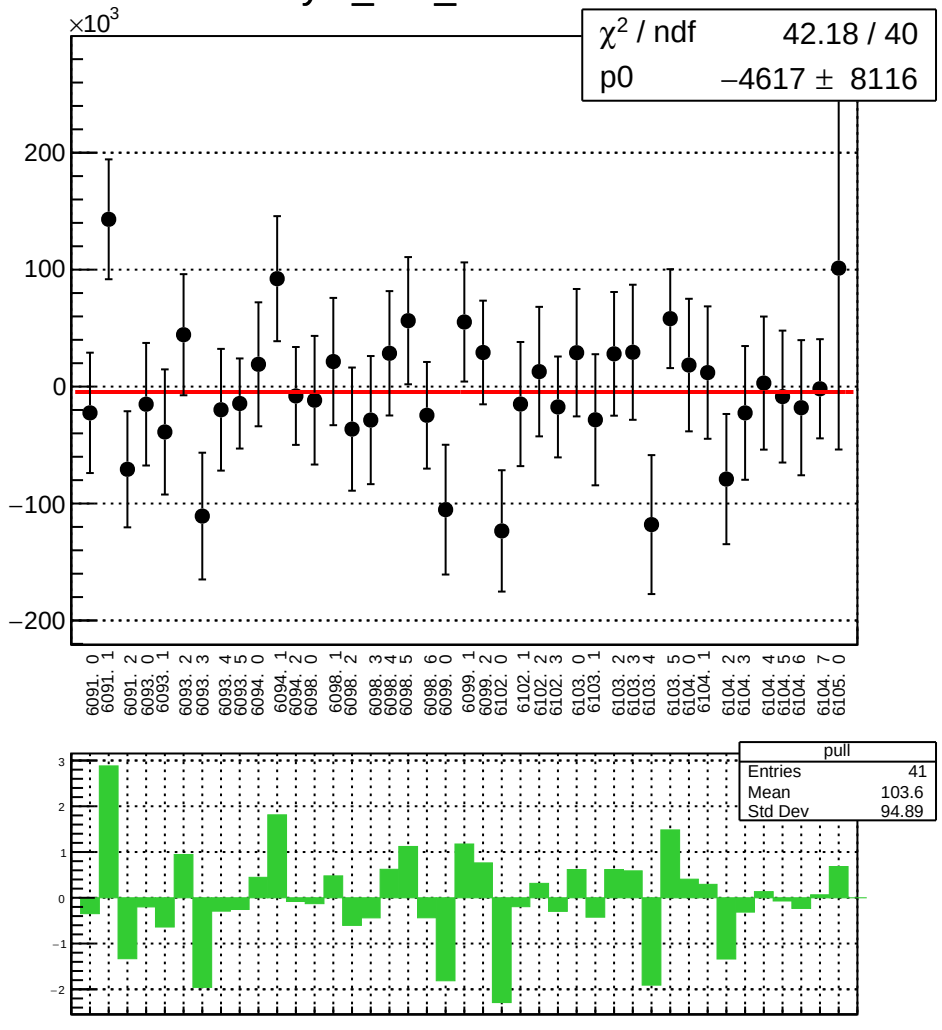

pull1D
Entries 41
Mean 0.001316
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

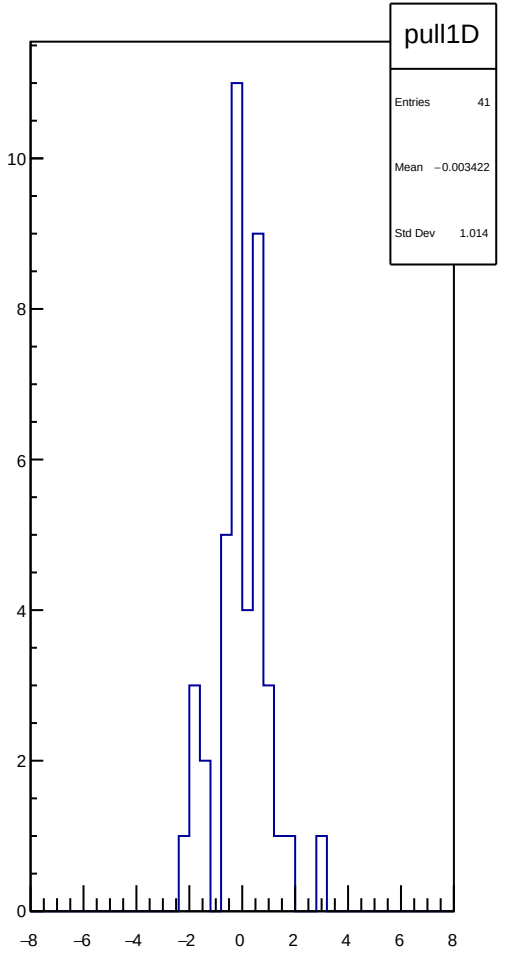

dit_asym_atl2_rms vs run
χ² / ndf 180.2 / 40
p0 1914 ± 2.127
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

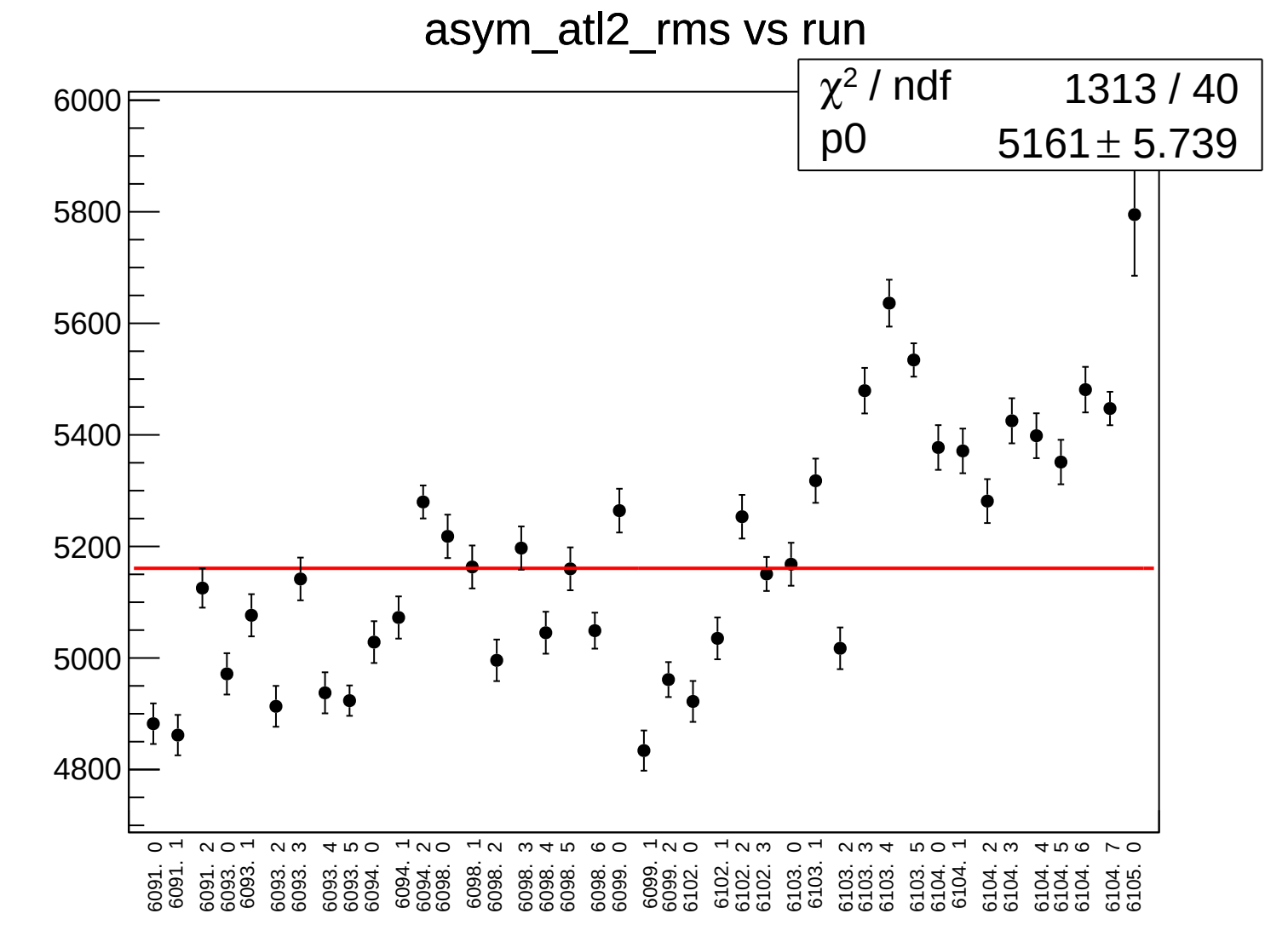

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 33.74 / 40
p0 5187 ± 7618
150
100
50
0
−50
−100
−150
−200
−250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 134.7
Std Dev 84.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

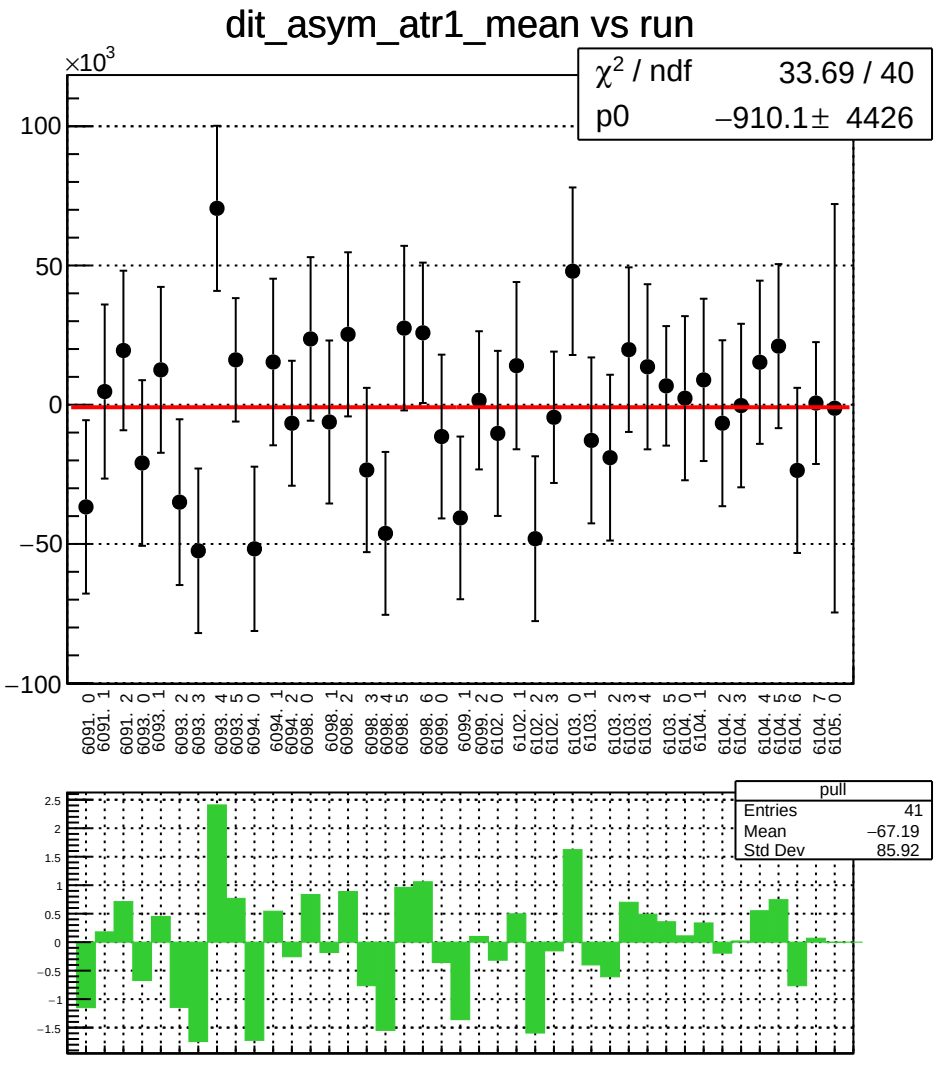

pull1D
Entries 41
Mean −0.001352
Std Dev 0.9071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

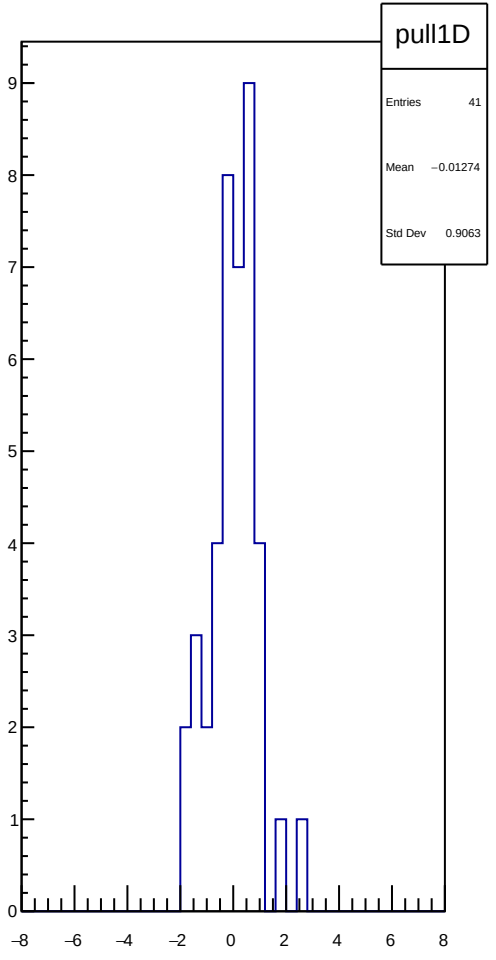

asym_atl2_correction_rms vs run
χ² / ndf 2234 / 40
p0 4841 ± 5.387
5600
5400
5200
5000
4800
4600
4400
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

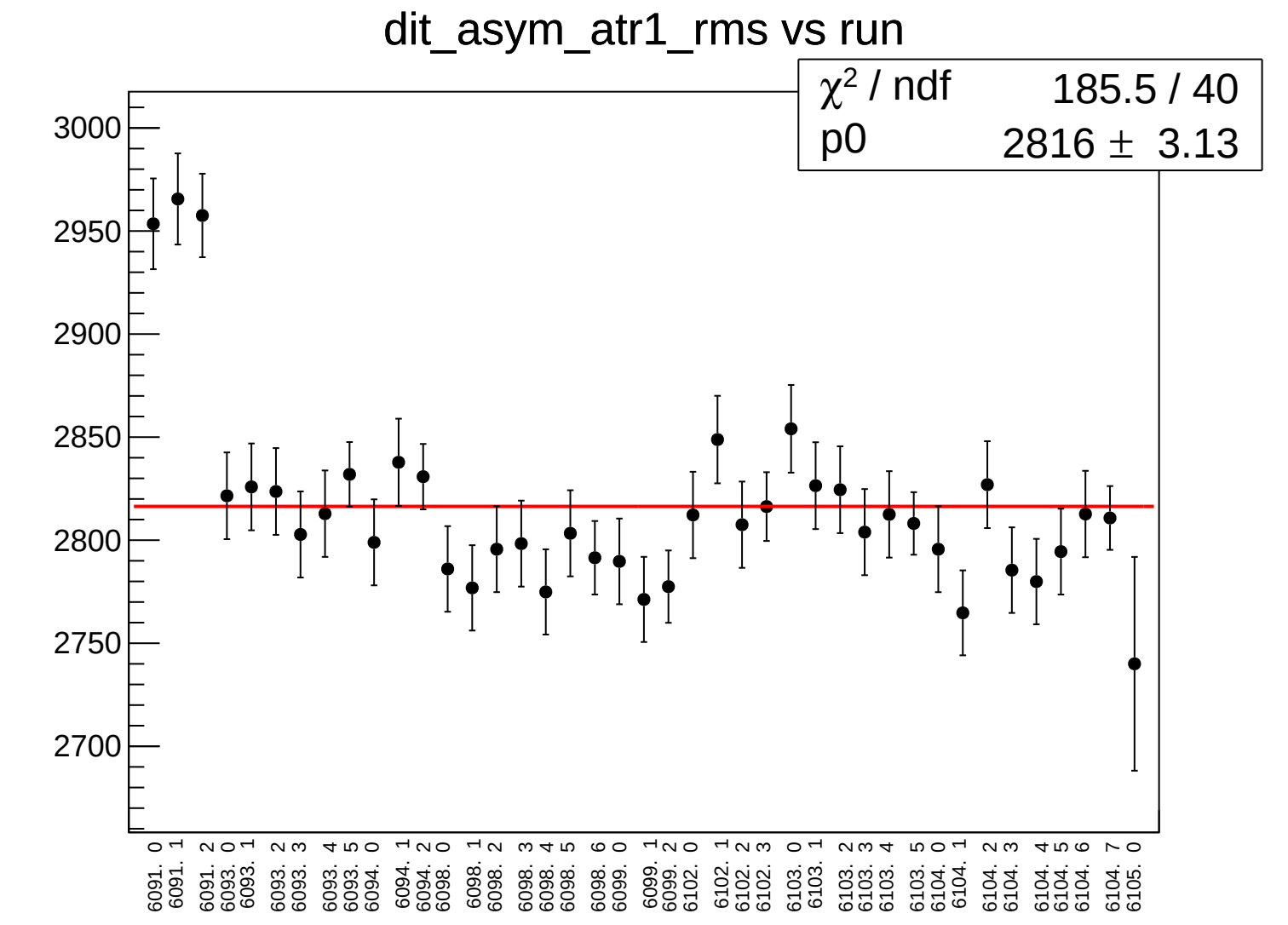

asym_atl2_mean vs run
×10^3
χ² / ndf 42.18 / 40
p0 −4617 ± 8116
200
100
0
−100
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 103.6
Std Dev 94.89
3
2
1
0
−1
−2

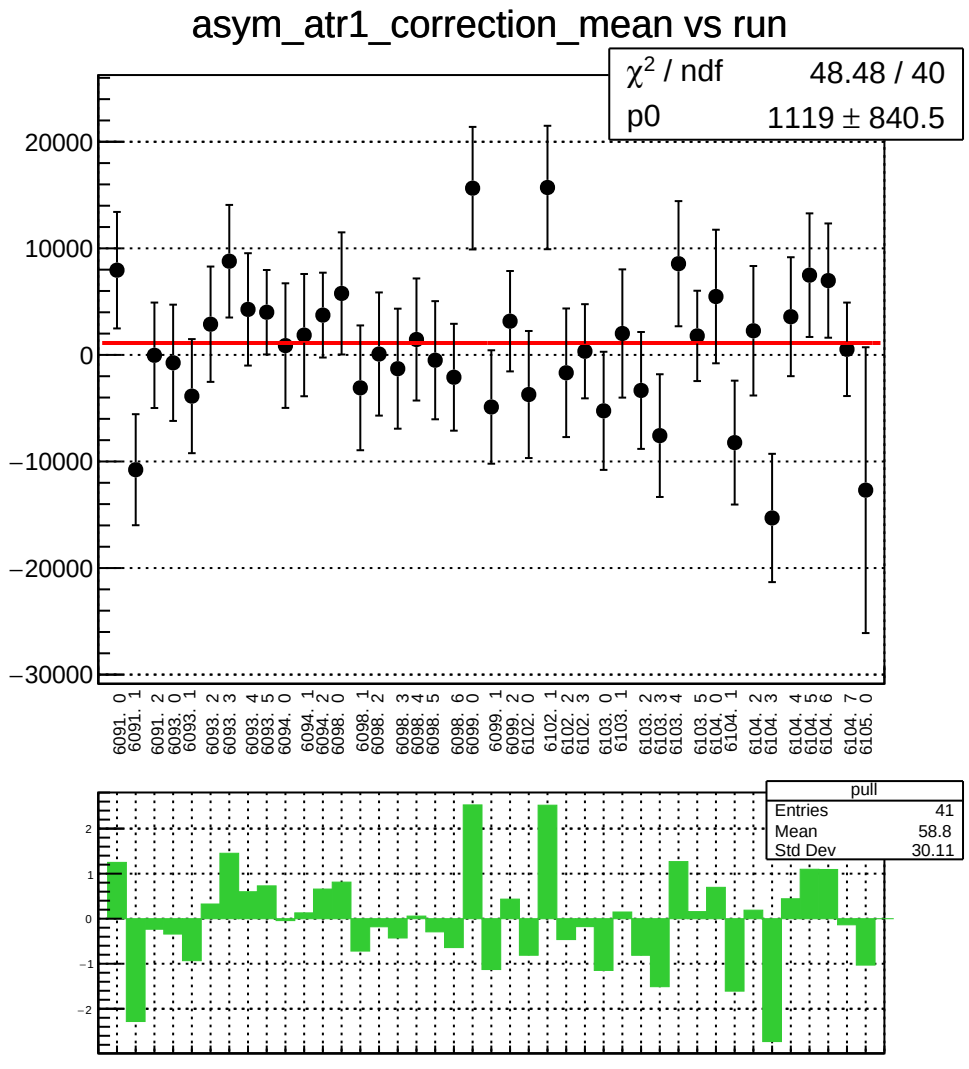

pull1D
Entries 41
Mean −0.003422
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

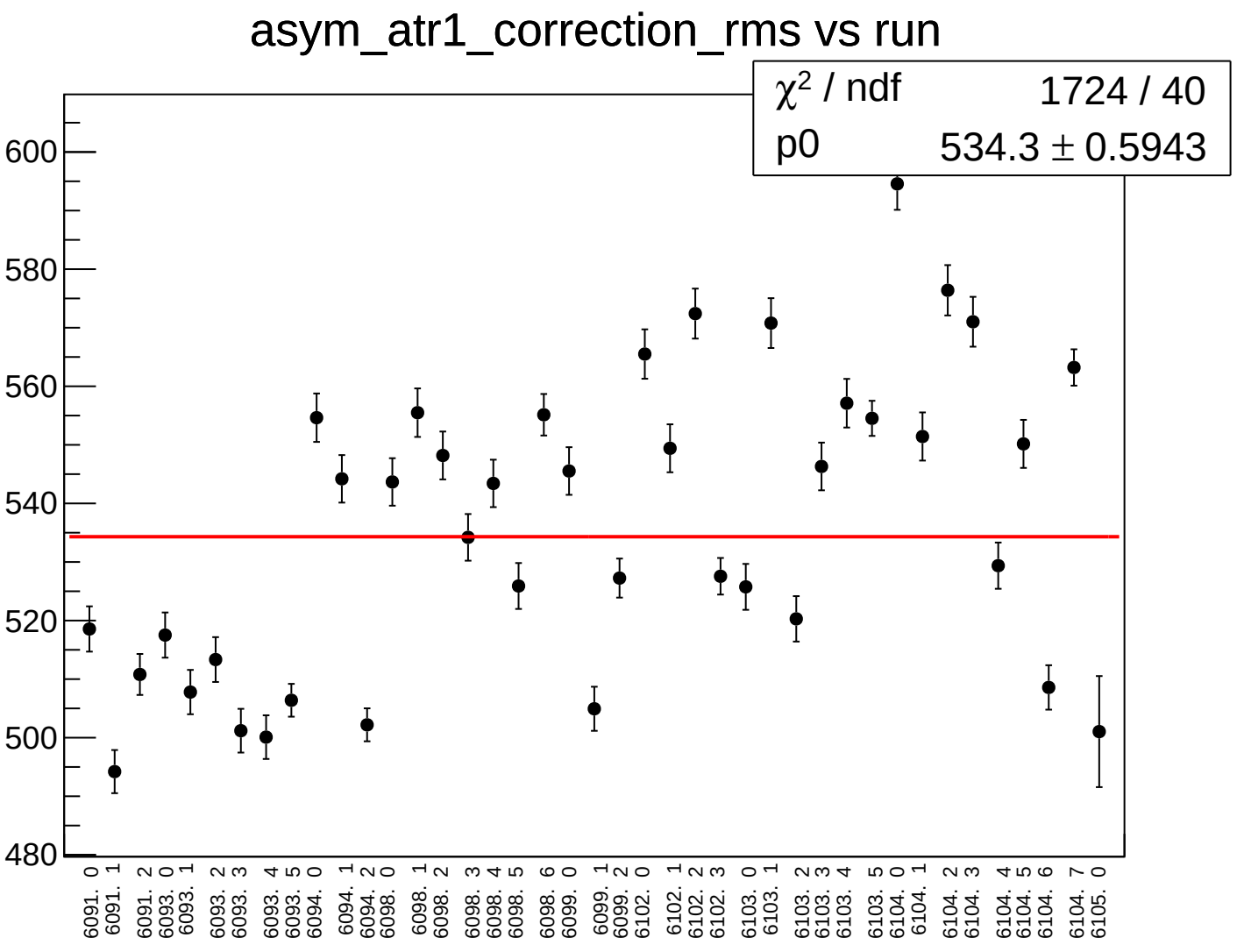

asym_atl2_rms vs run
χ² / ndf 1313 / 40
p0 5161 ± 5.739
6000
5800
5600
5400
5200
5000
4800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

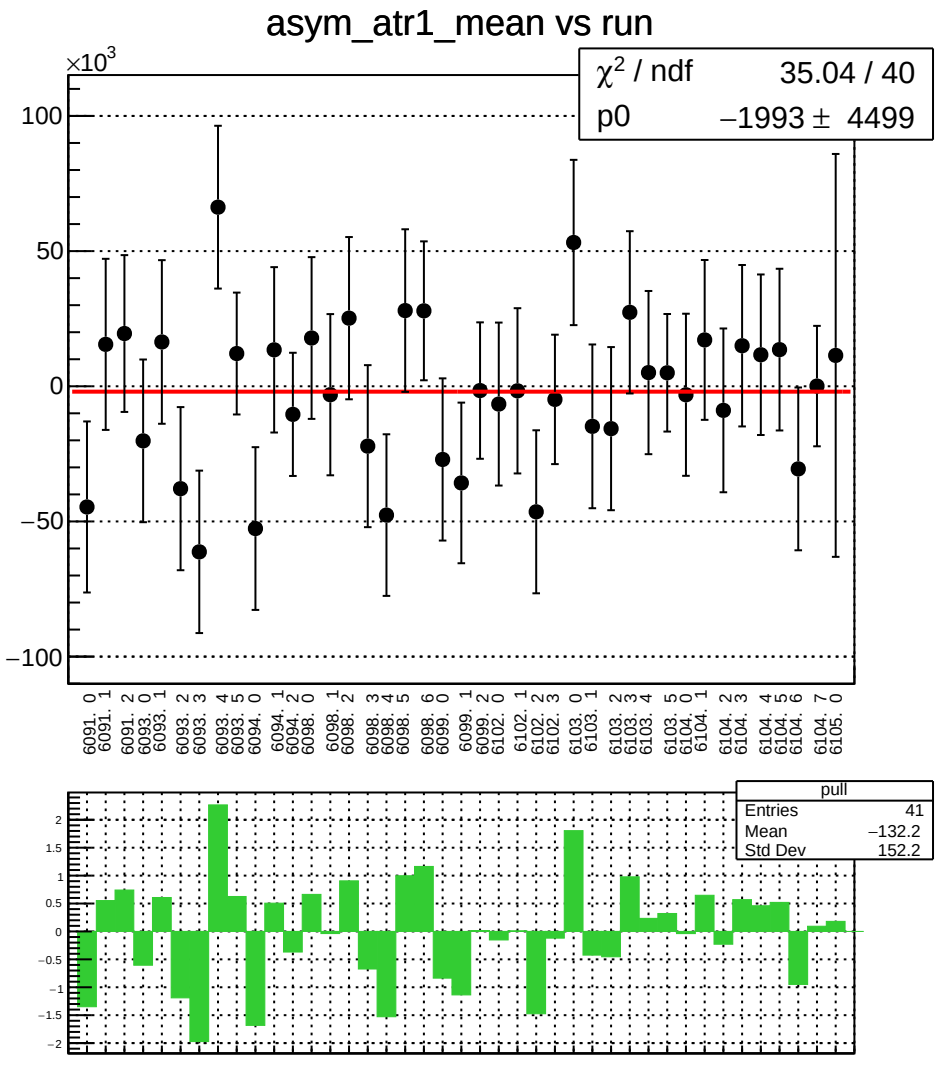

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 33.69 / 40
p0 −910.1± 4426
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −67.19
Std Dev 85.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

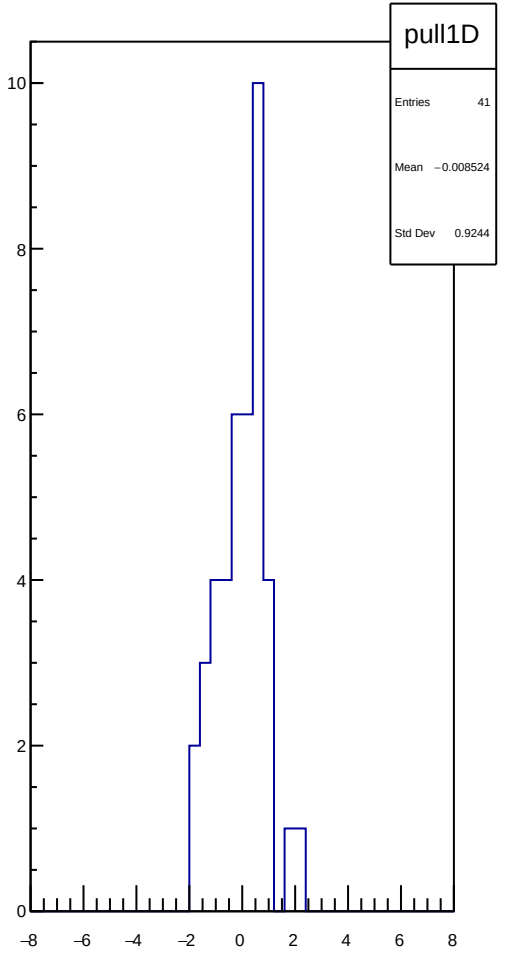

pull1D
Entries 41
Mean −0.01274
Std Dev 0.9063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

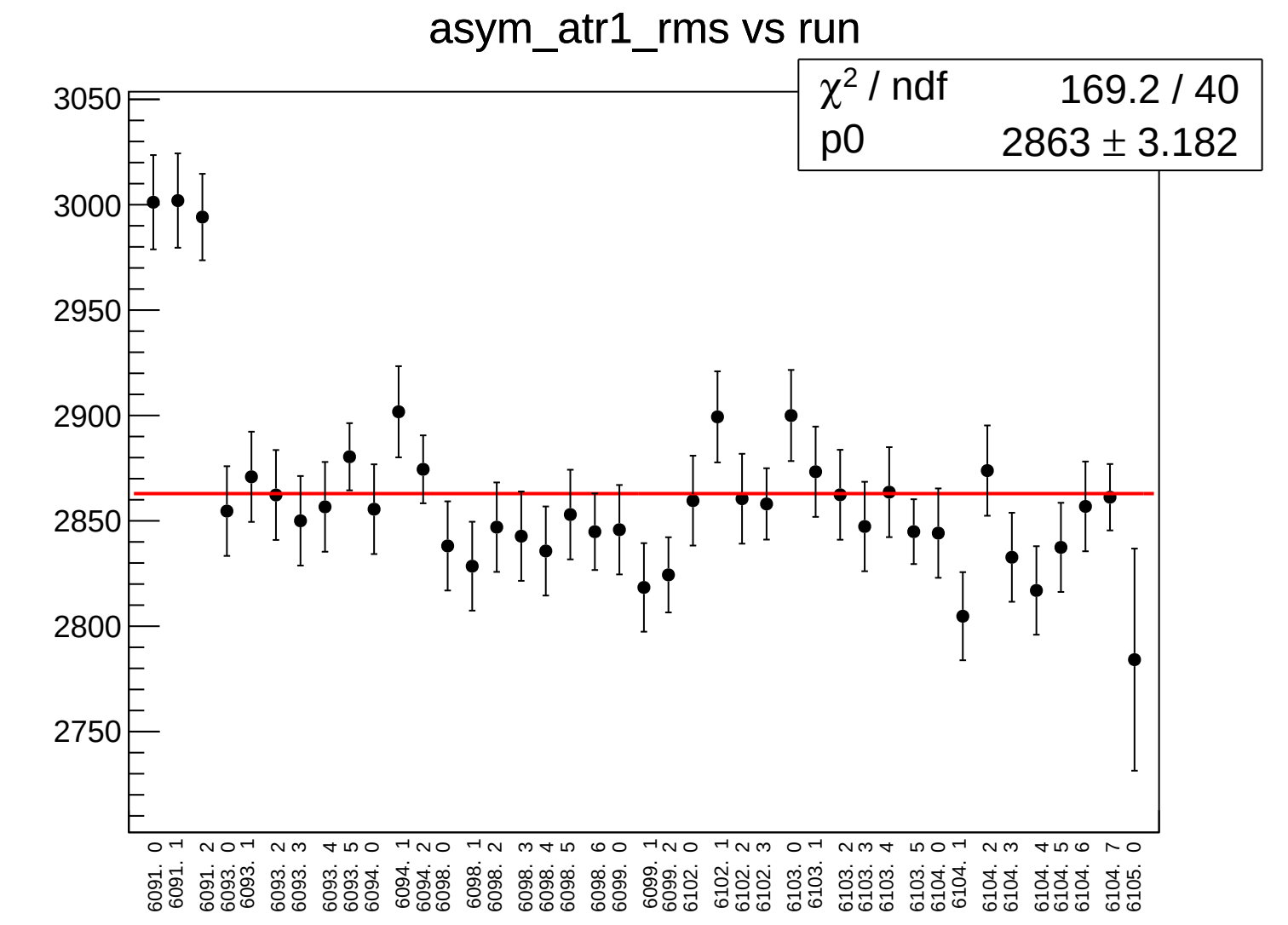

dit_asym_atr1_rms vs run
χ² / ndf 185.5 / 40
p0 2816 ± 3.13
3000
2950
2900
2850
2800
2750
2700
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

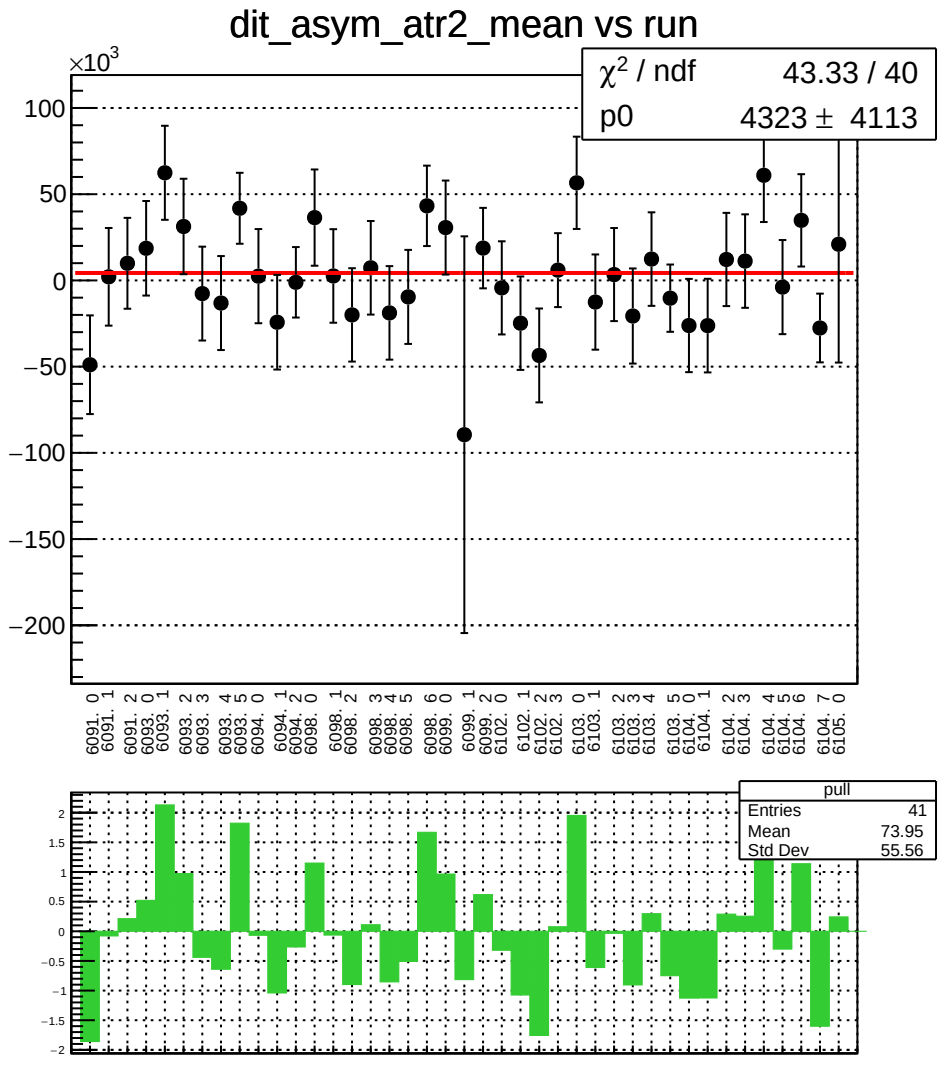

asym_atr1_correction_mean vs run
χ² / ndf 48.48 / 40
p0 1119 ± 840.5
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 58.8
Std Dev 30.11
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02582
Std Dev 1.087
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

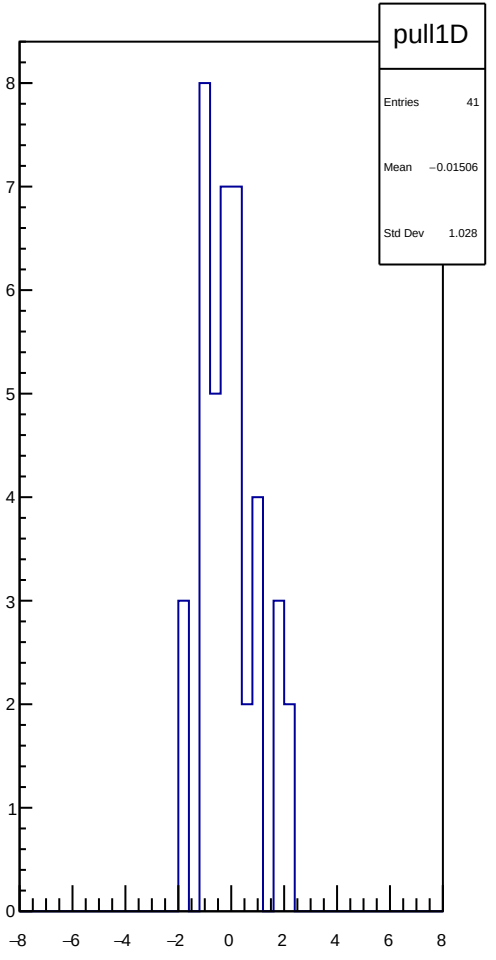

asym_atr1_correction_rms vs run
χ² / ndf 1724 / 40
p0 534.3 ± 0.5943
600
580
560
540
520
500
480
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

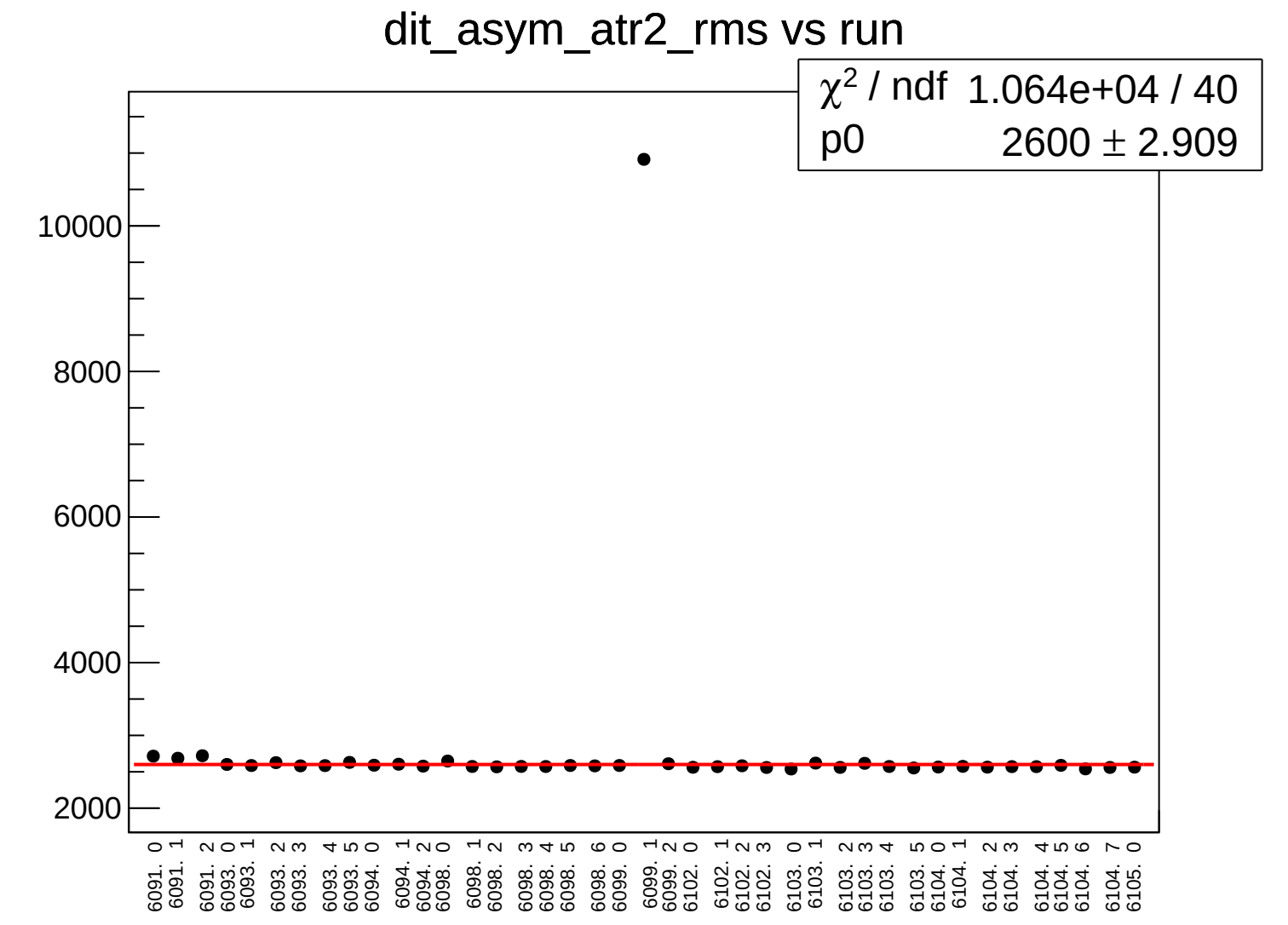

asym_atr1_mean vs run
×10^3
χ² / ndf 35.04 / 40
p0 −1993 ± 4499
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −132.2
Std Dev 152.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

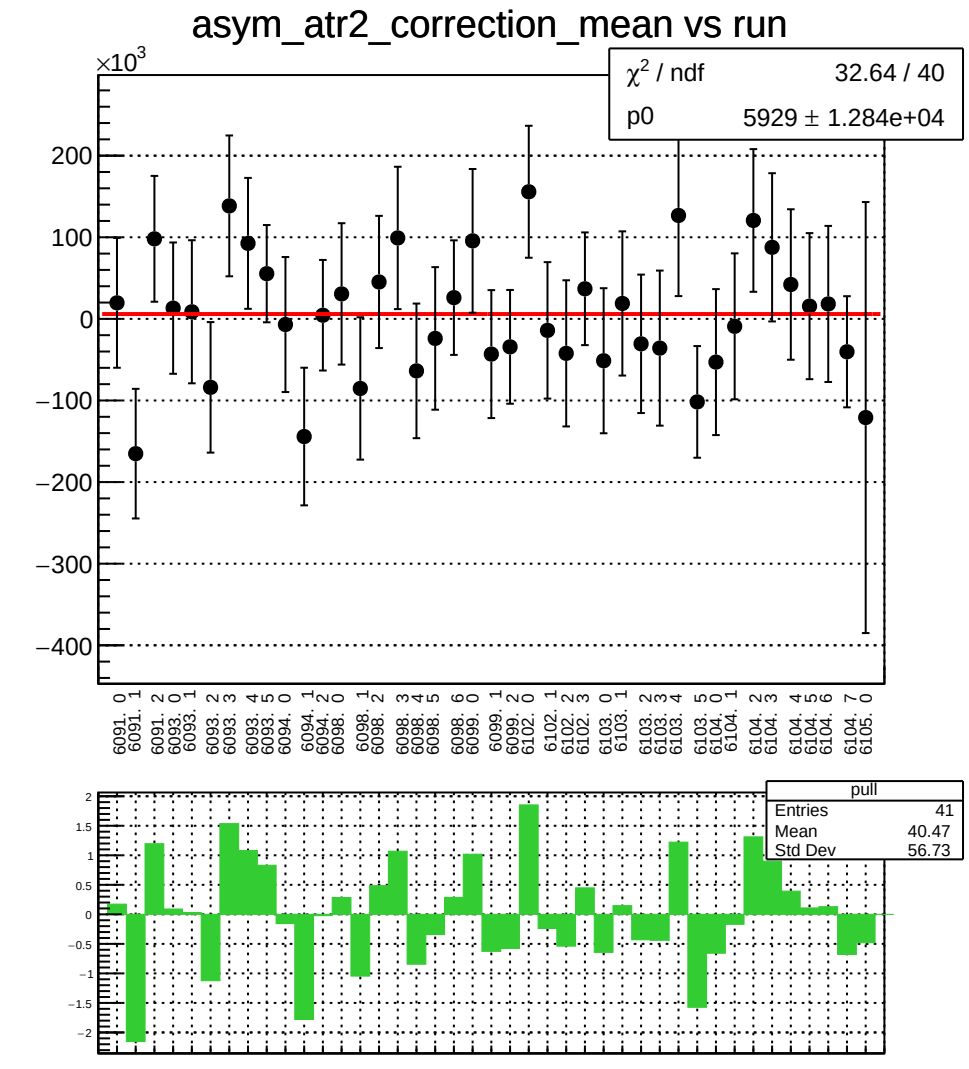

pull1D
Entries 41
Mean −0.008524
Std Dev 0.9244
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

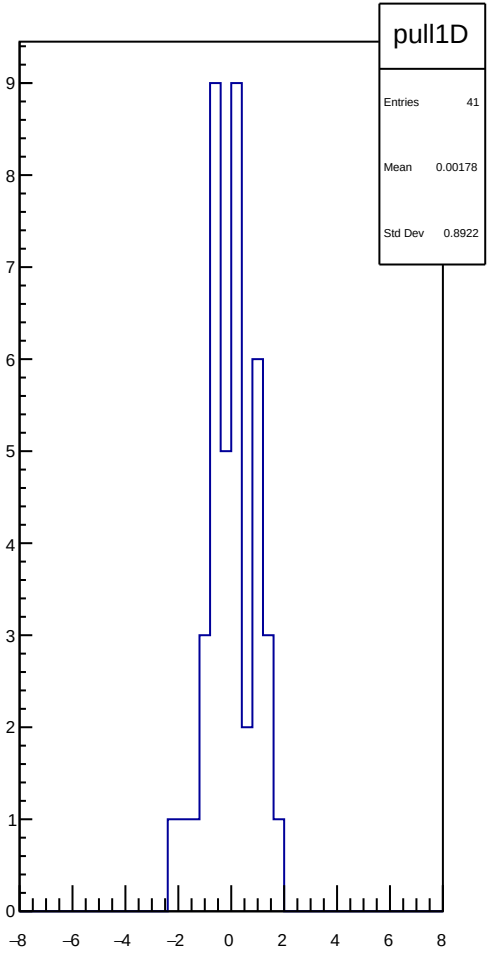

asym_atr1_rms vs run
χ² / ndf 169.2 / 40
p0 2863 ± 3.182
3050
3000
2950
2900
2850
2800
2750
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

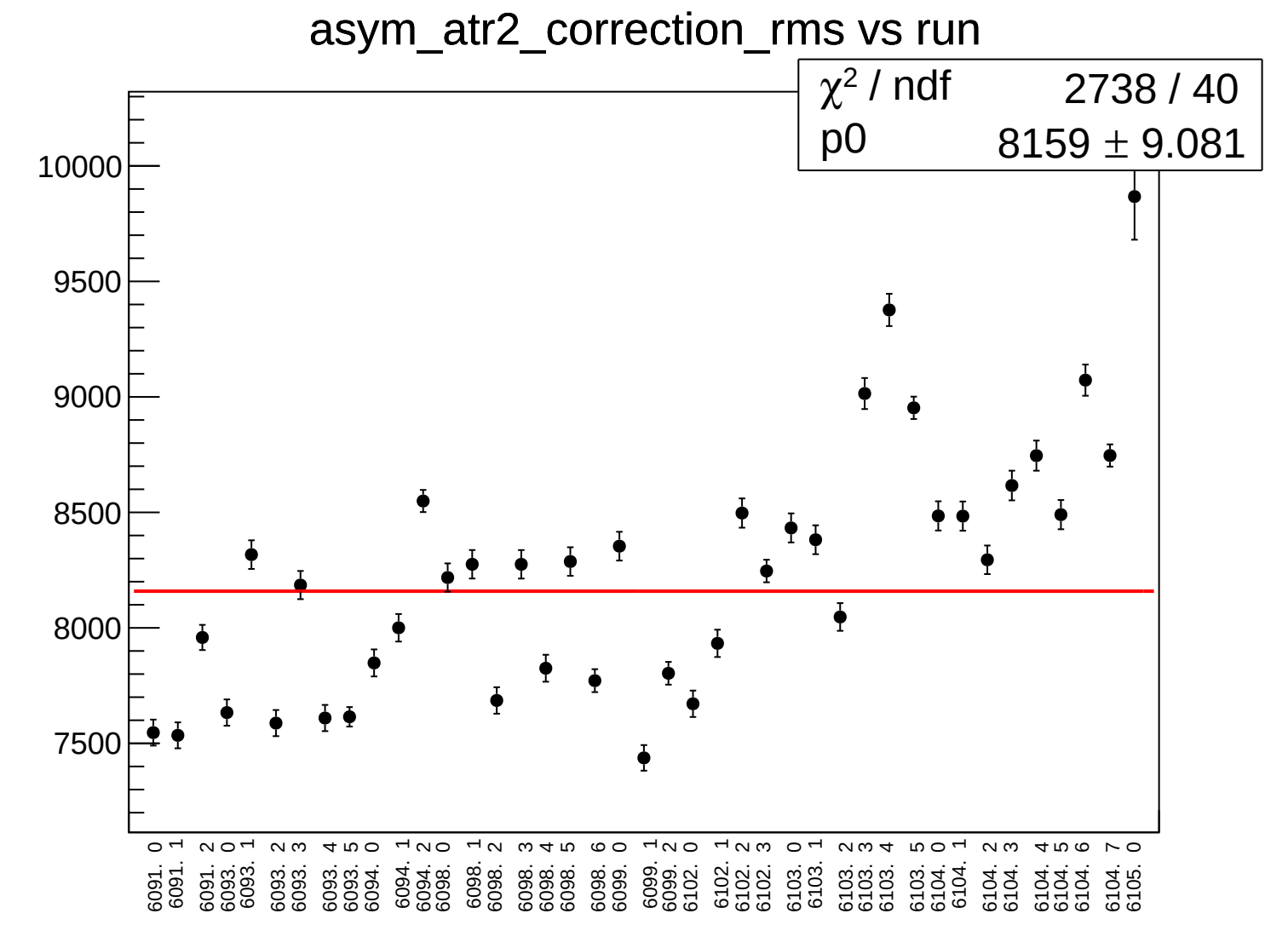

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 43.33 / 40
p0 4323 ± 4113
100
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 73.95
Std Dev 55.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

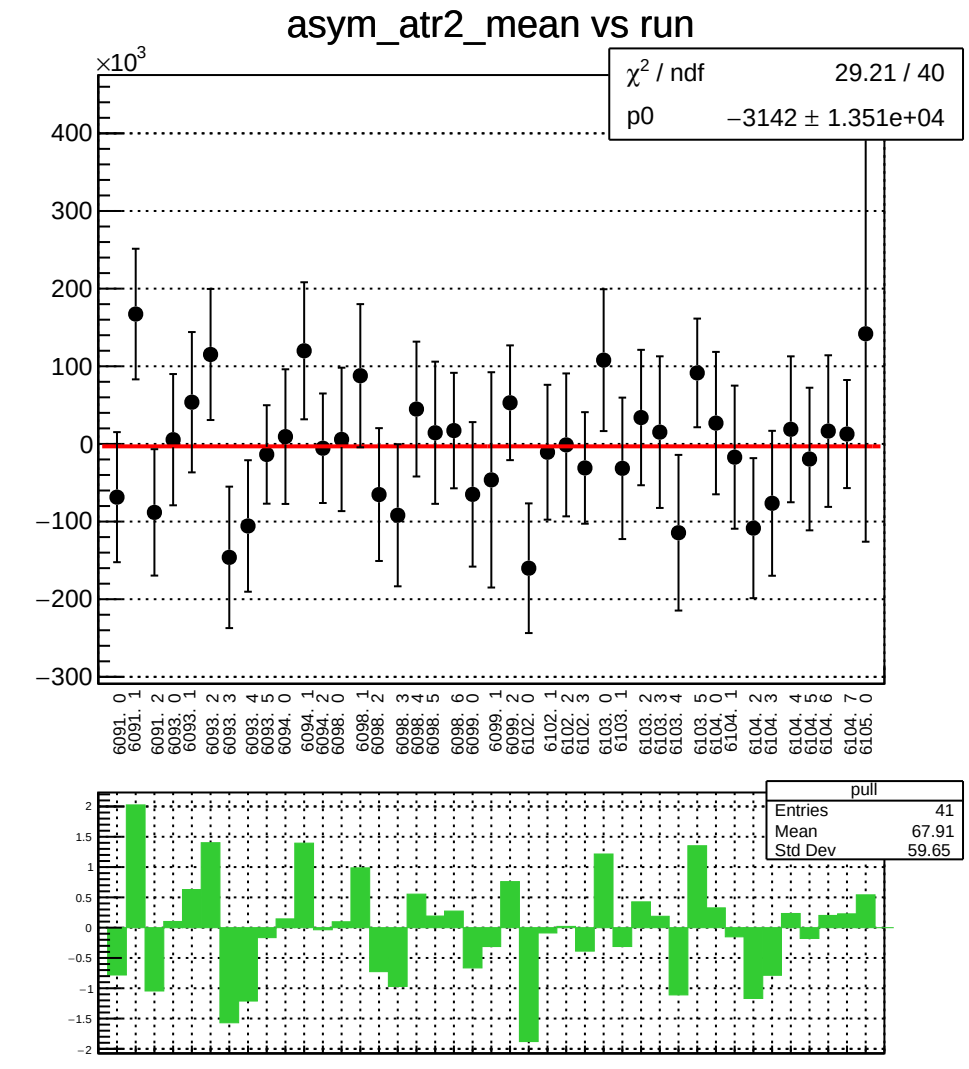

pull1D
Entries 41
Mean −0.01506
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

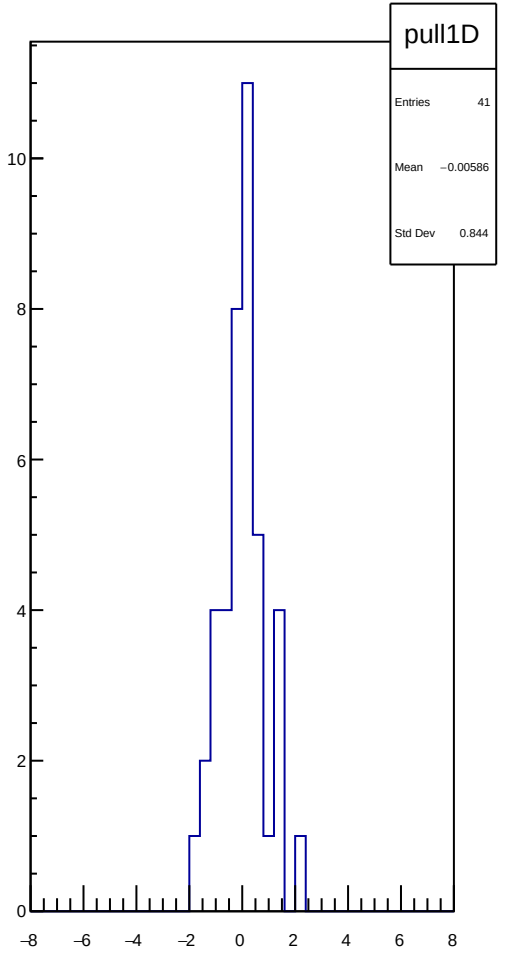

dit_asym_atr2_rms vs run
χ² / ndf 1.064e+04 / 40
p0 2600 ± 2.909
10000
8000
6000
4000
2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

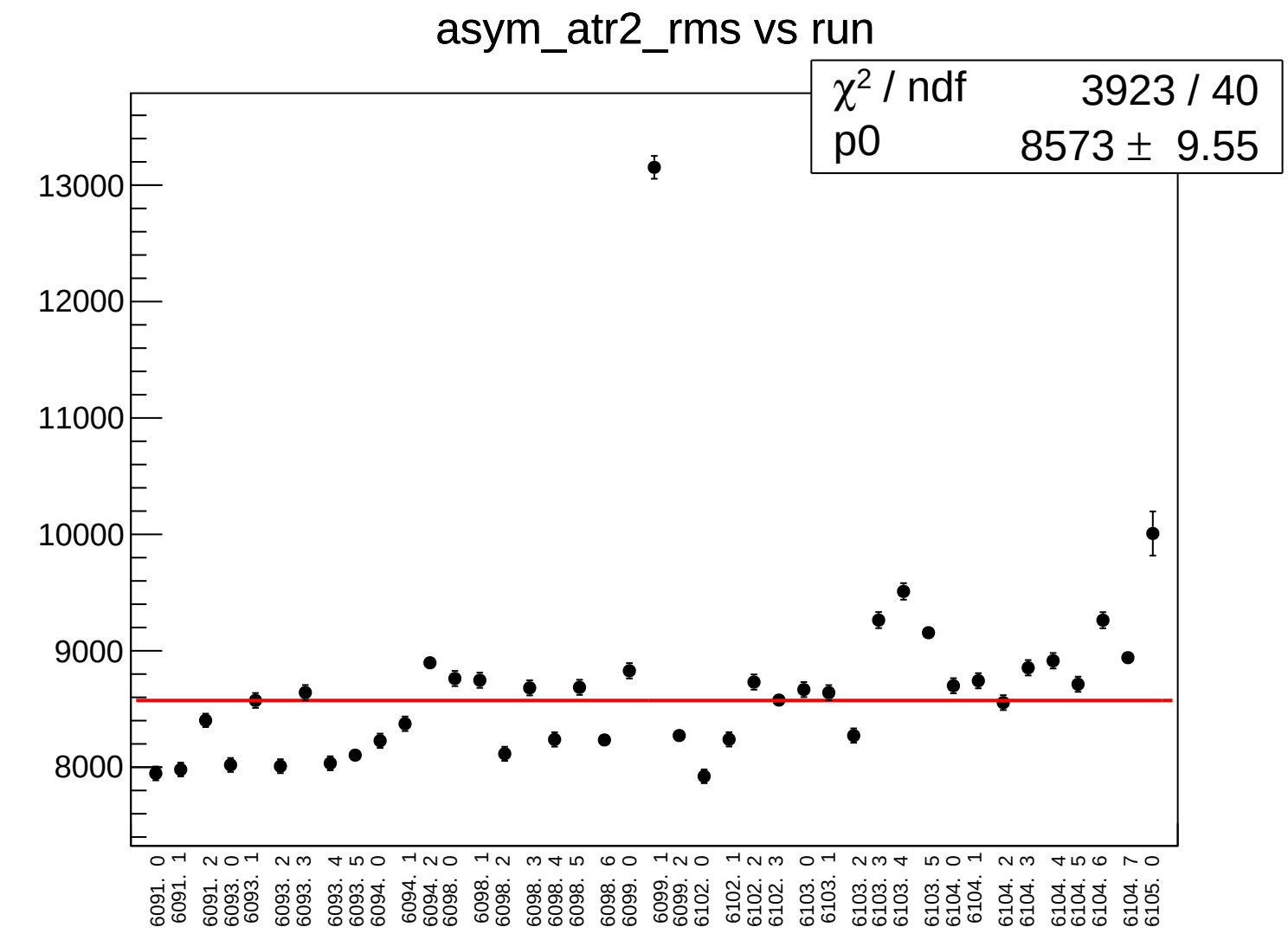

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 32.64 / 40
p0 5929 ± 1.284e+04
200
100
0
−100
−200
−300
−400
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 40.47
Std Dev 56.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

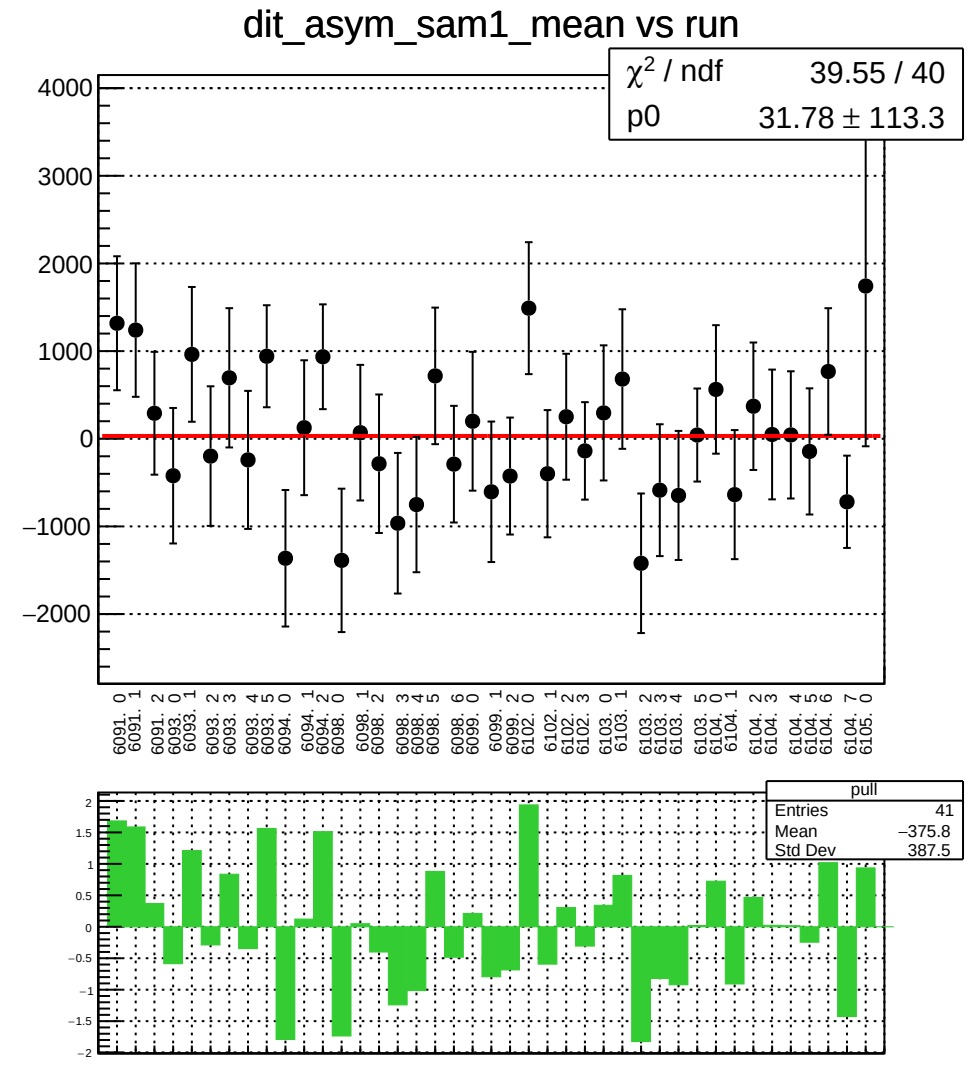

pull1D
Entries 41
Mean 0.00178
Std Dev 0.8922
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

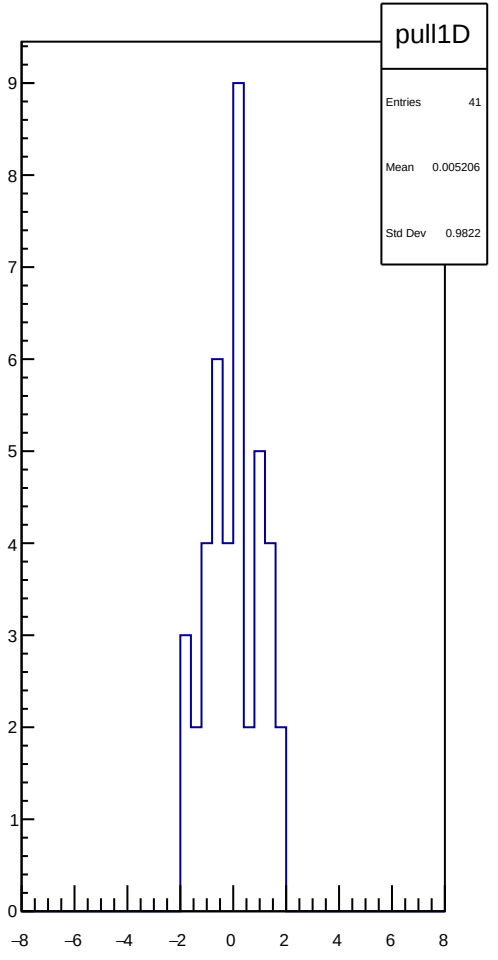

asym_atr2_correction_rms vs run
χ² / ndf 2738 / 40
p0 8159 ± 9.081
10000
9500
9000
8500
8000
7500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

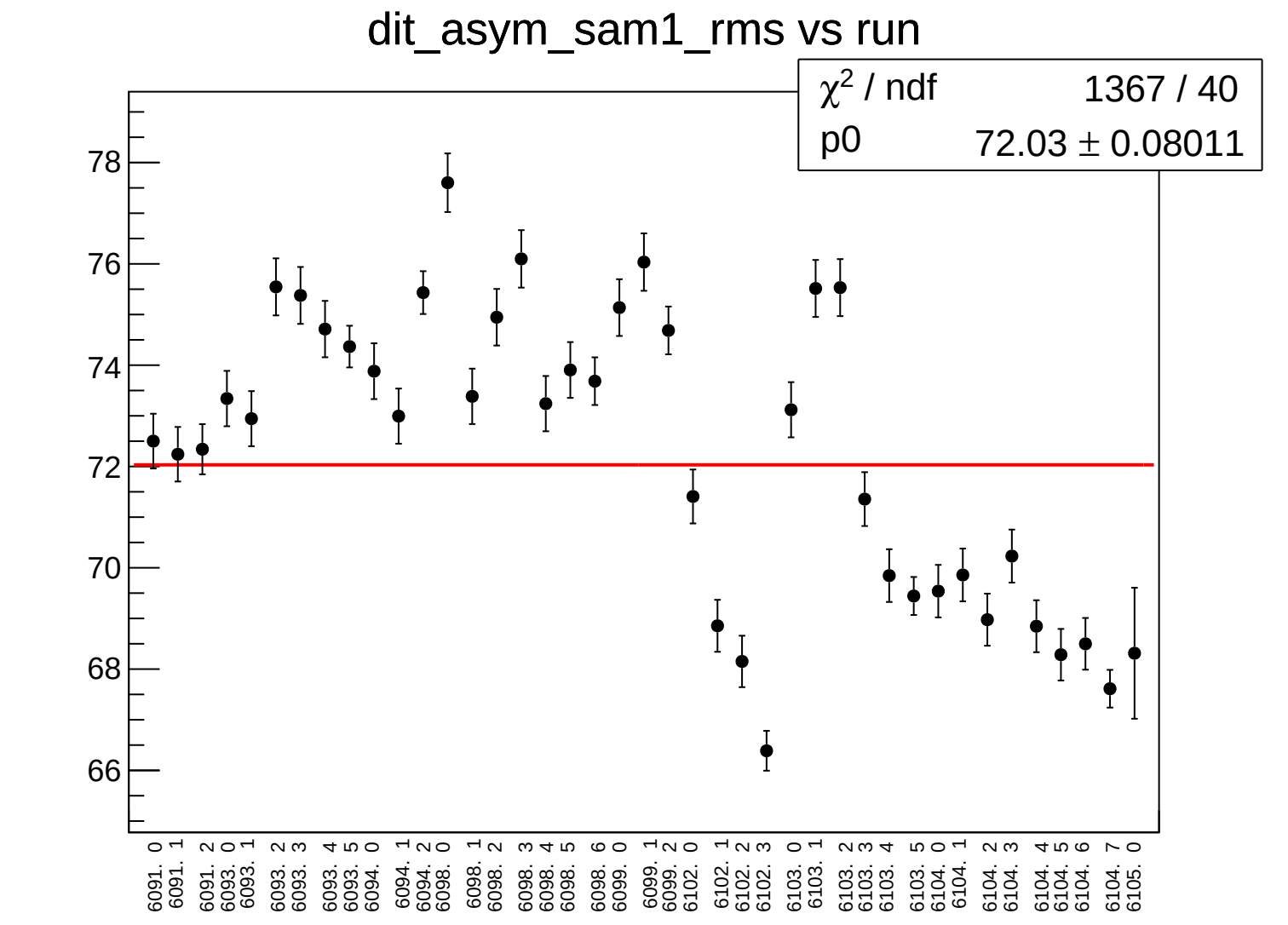

asym_atr2_mean vs run
×10^3
χ² / ndf 29.21 / 40
p0 −3142 ± 1.351e+04
400
300
200
100
0
−100
−200
−300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 67.91
Std Dev 59.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

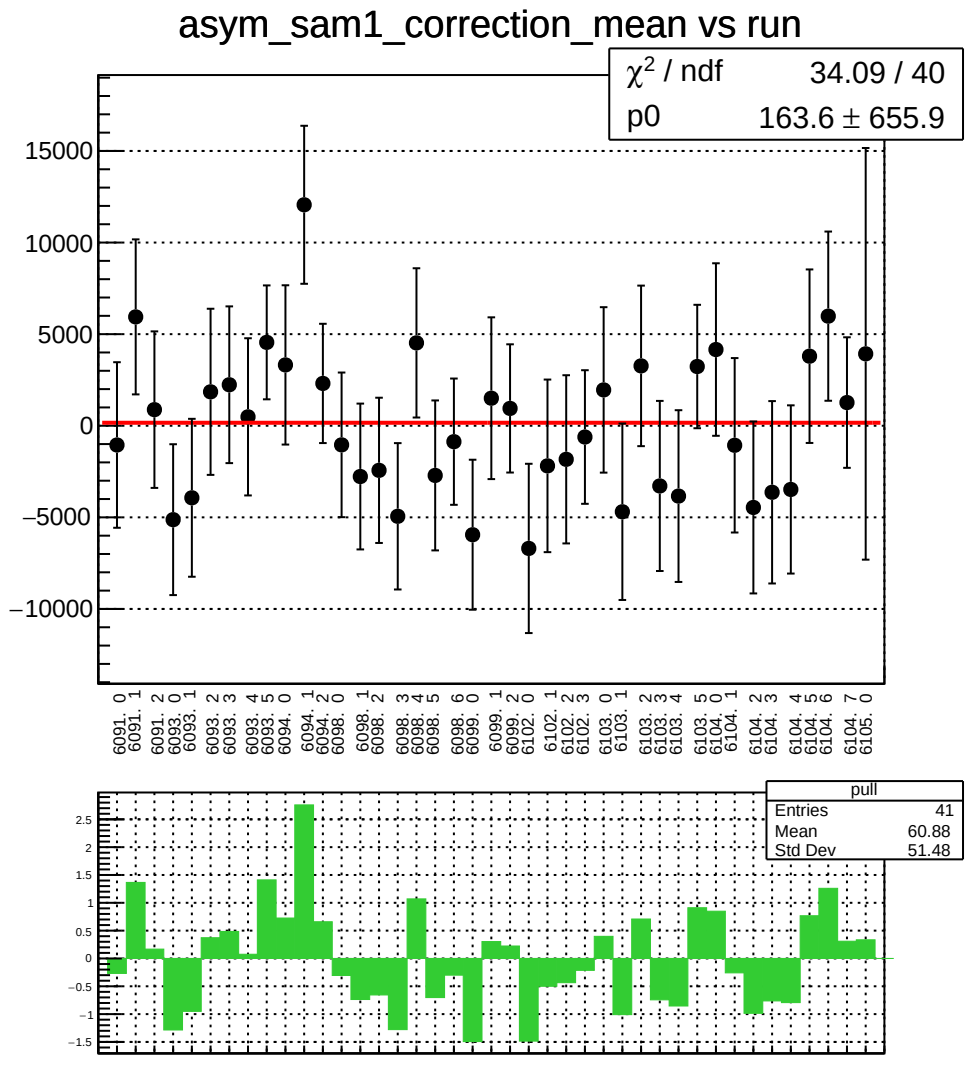

pull1D
Entries 41
Mean −0.00586
Std Dev 0.844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

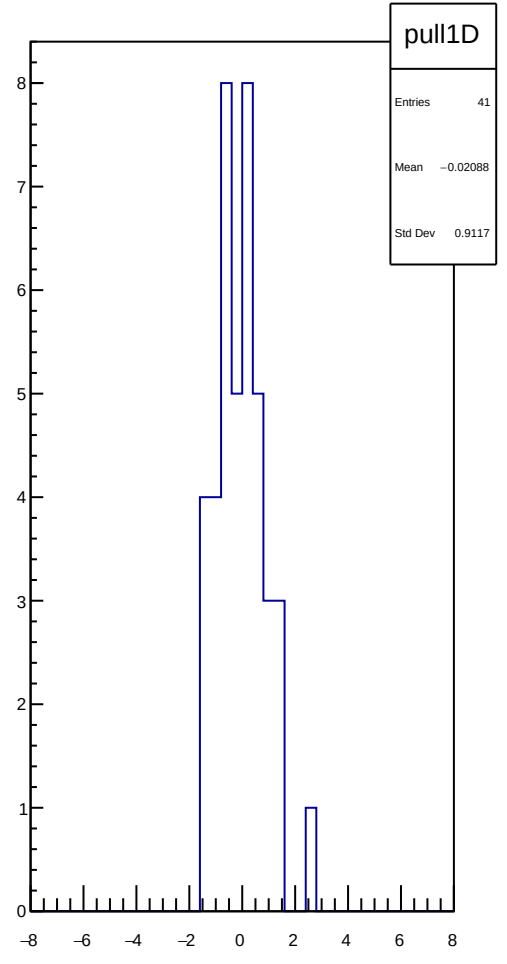

asym_atr2_rms vs run
χ² / ndf 3923 / 40
p0 8573 ± 9.55
13000
12000
11000
10000
9000
8000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

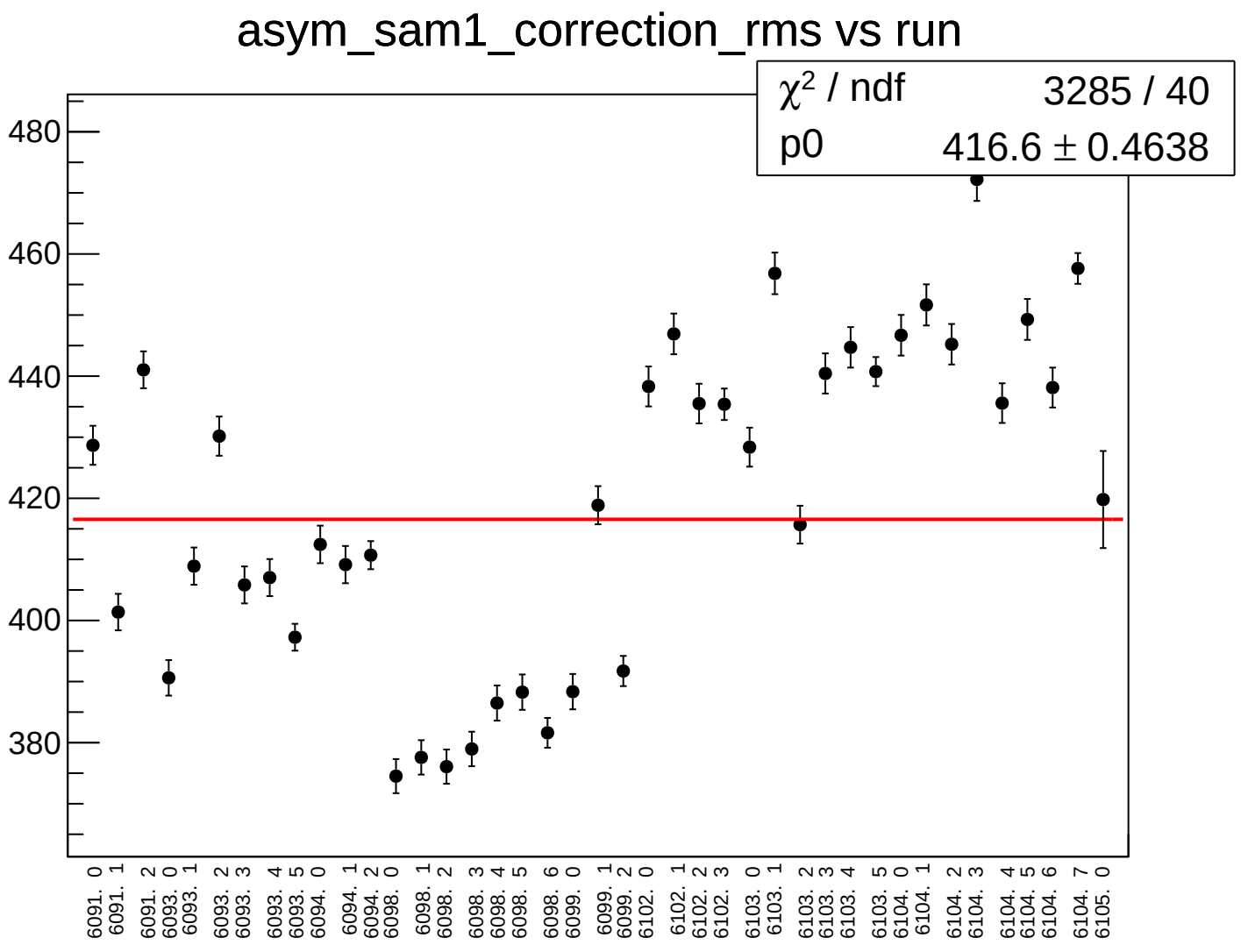

dit_asym_sam1_mean vs run
χ^2 / ndf 39.55 / 40
p0 31.78 ± 113.3
4000
3000
2000
1000
0
−1000
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −375.8
Std Dev 387.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

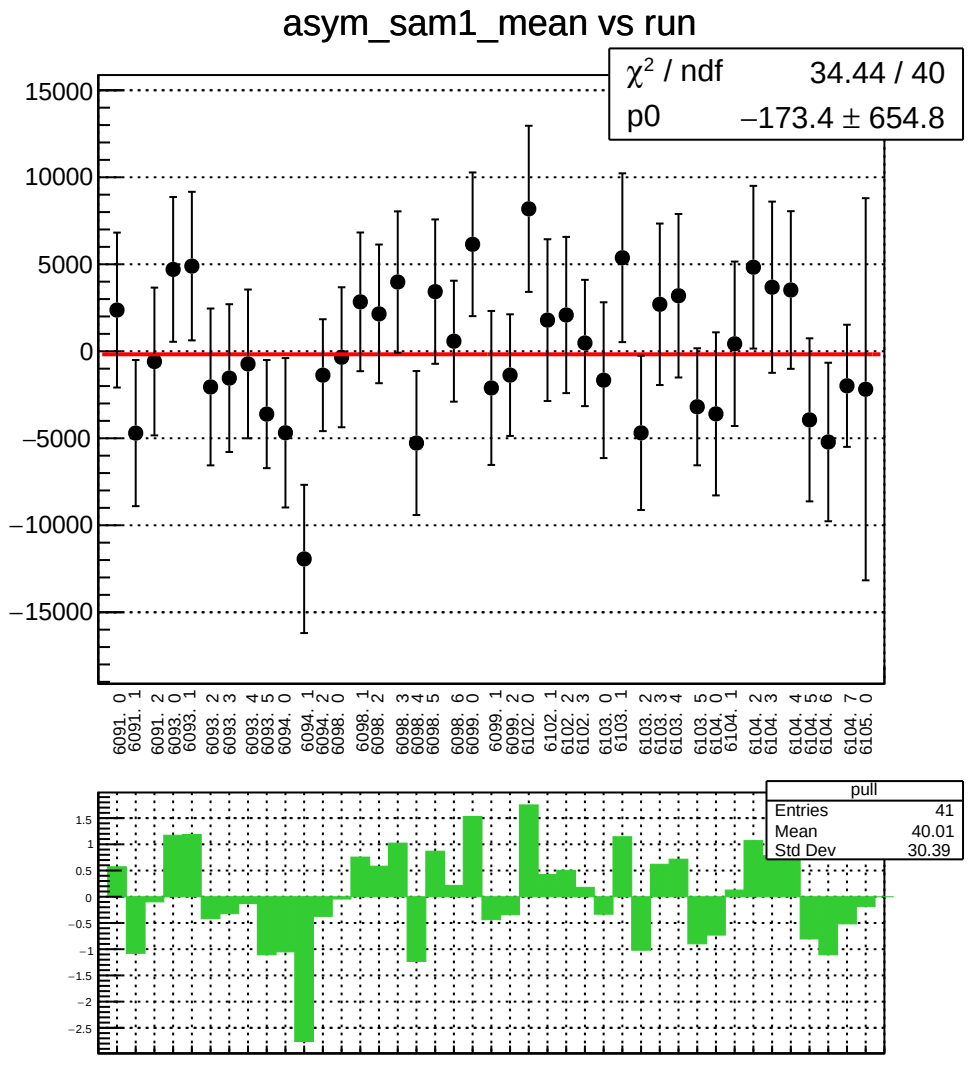

pull1D
Entries 41
Mean 0.005206
Std Dev 0.9822
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

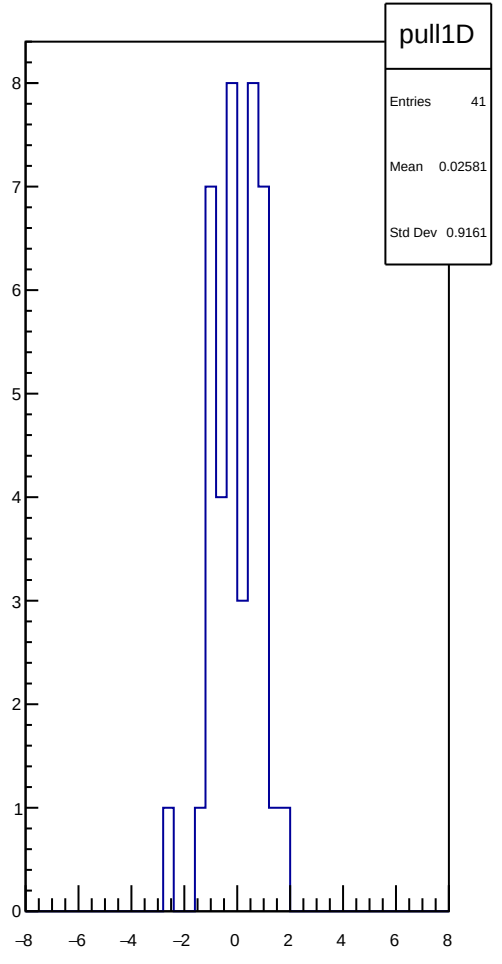

dit_asym_sam1_rms vs run
χ² / ndf 1367 / 40
p0 72.03 ± 0.08011
78
76
74
72
70
68
66
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

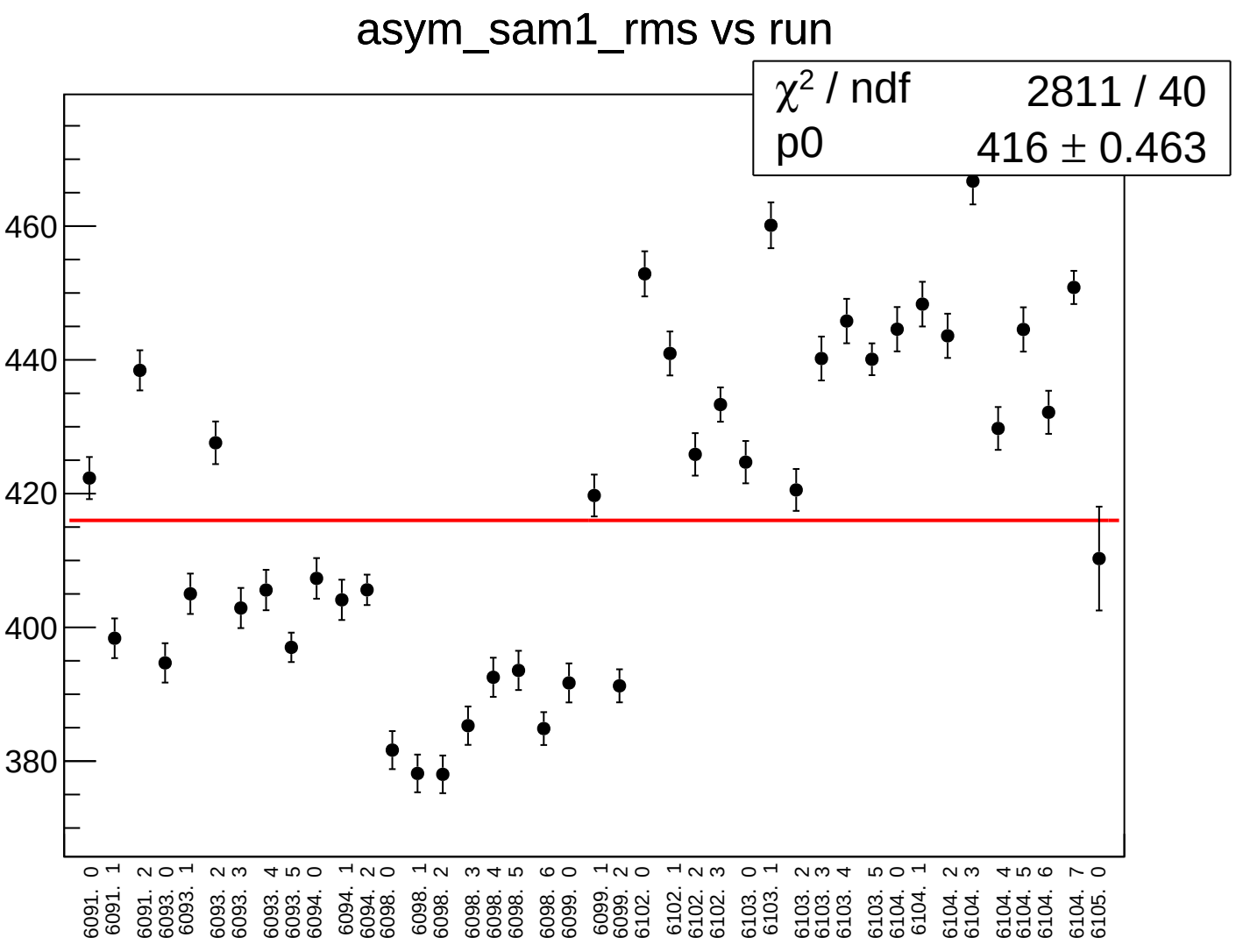

asym_sam1_correction_mean vs run
χ² / ndf 34.09 / 40
p0 163.6 ± 655.9
15000
10000
5000
0
−5000
−10000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 60.88
Std Dev 51.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

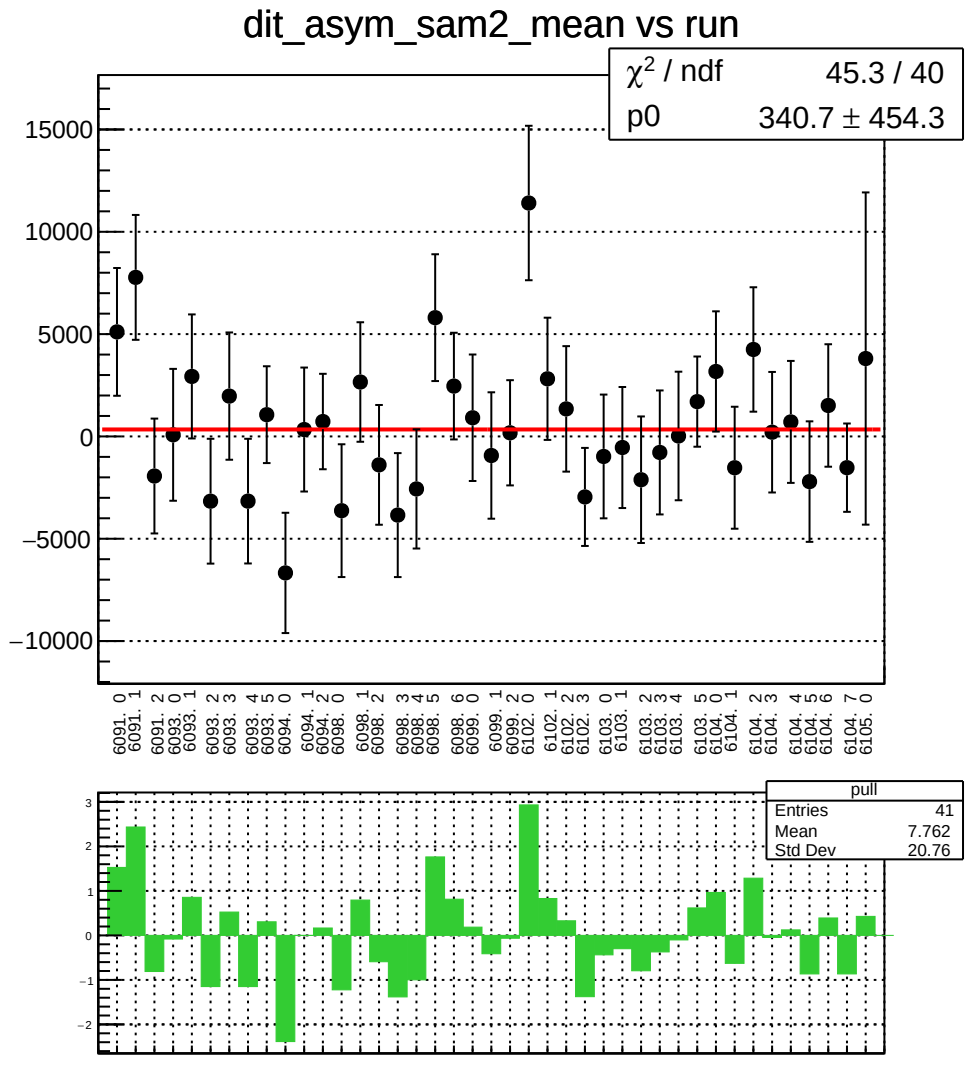

pull1D
Entries 41
Mean −0.02088
Std Dev 0.9117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

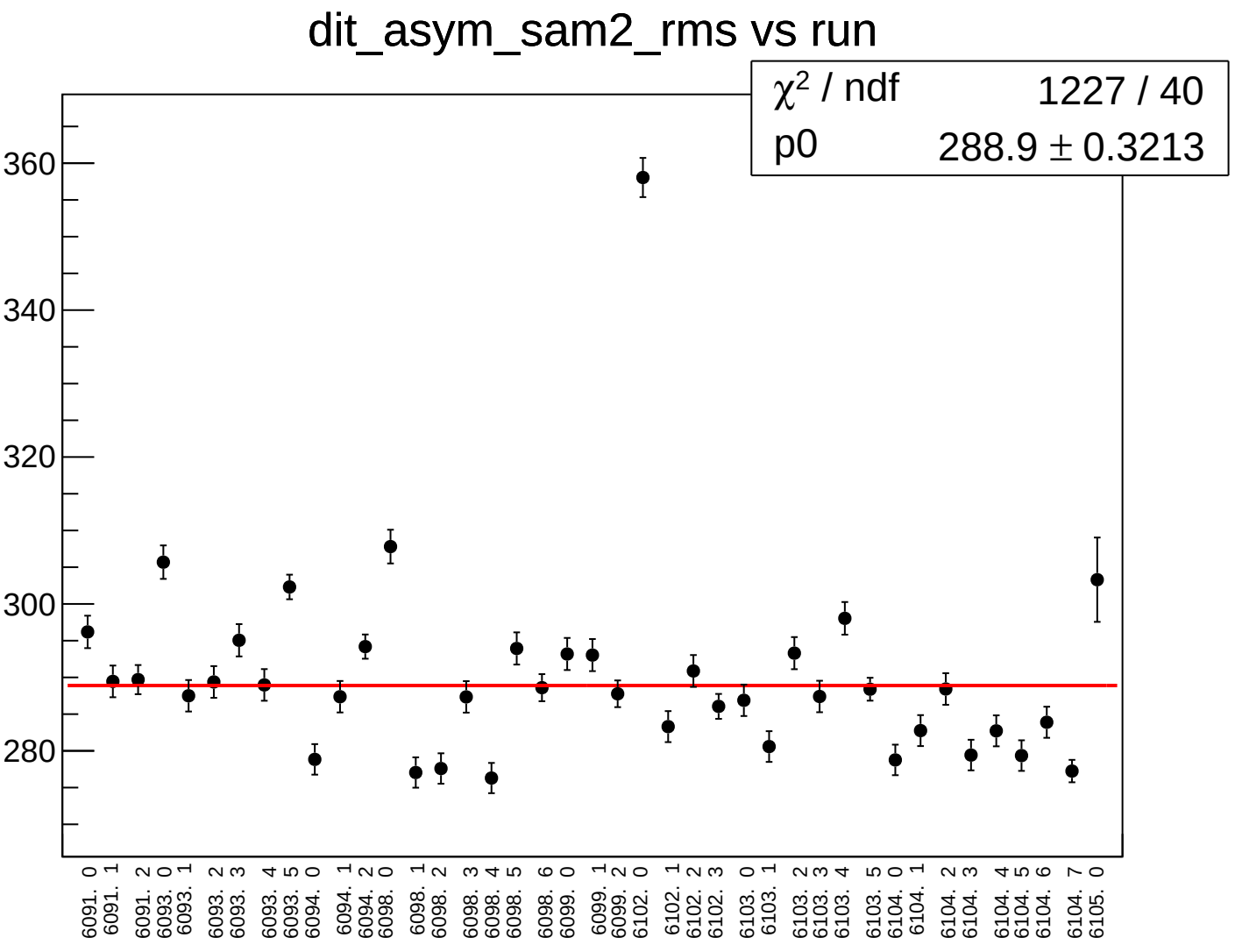

asym_sam1_correction_rms vs run
χ² / ndf 3285 / 40
p0 416.6 ± 0.4638
480
460
440
420
400
380
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

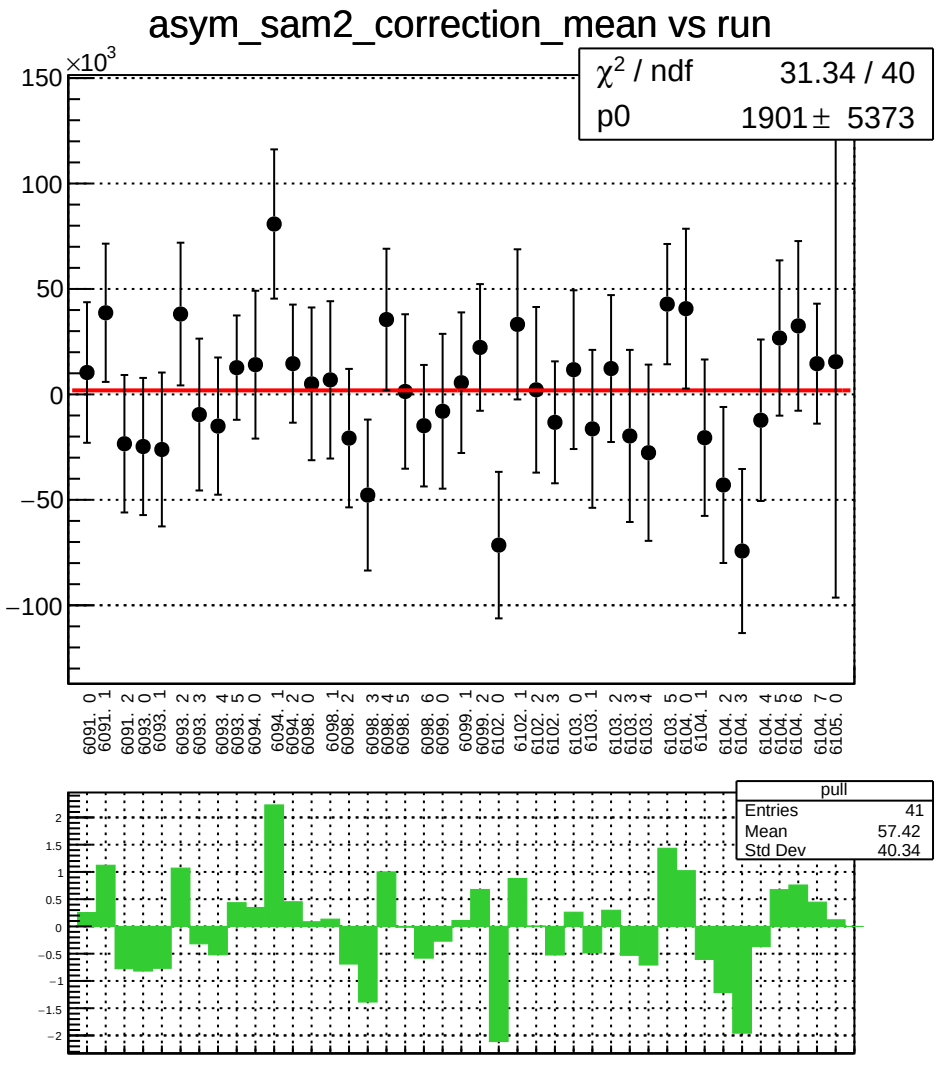

asym_sam1_mean vs run
χ² / ndf 34.44 / 40
p0 −173.4 ± 654.8
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 40.01
Std Dev 30.39
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

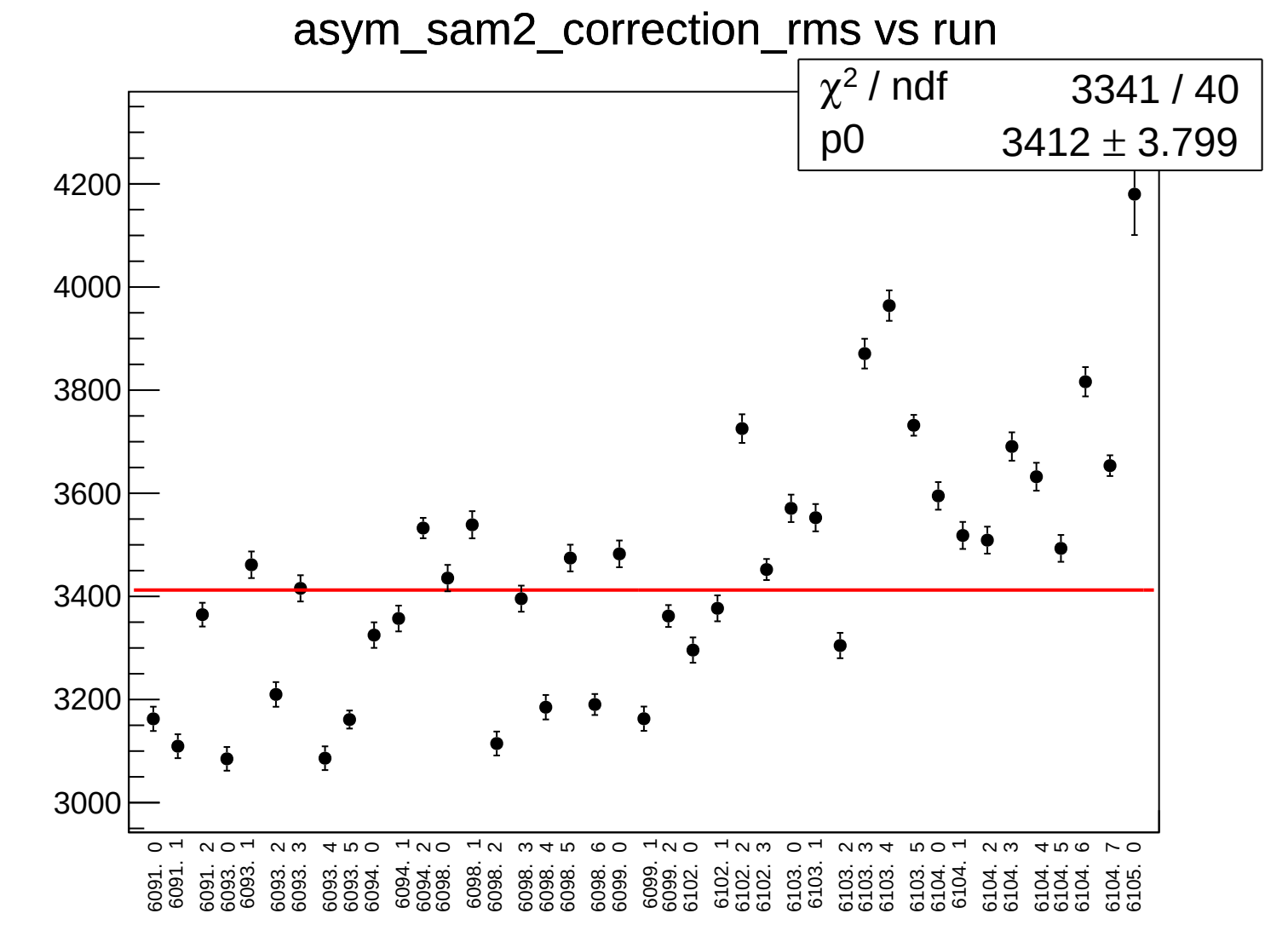

pull1D
Entries 41
Mean 0.02581
Std Dev 0.9161
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

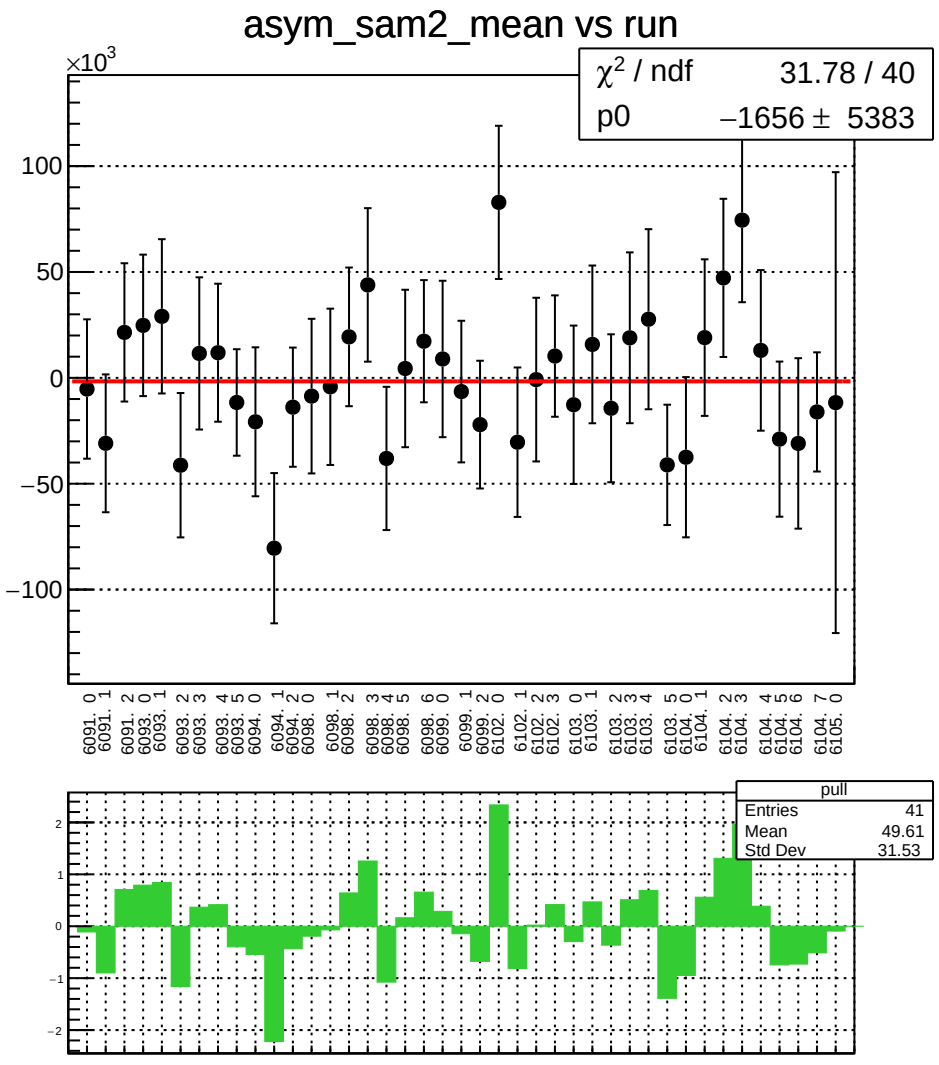

asym_sam1_rms vs run
χ² / ndf 2811 / 40
p0 416 ± 0.463
460
440
420
400
380
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

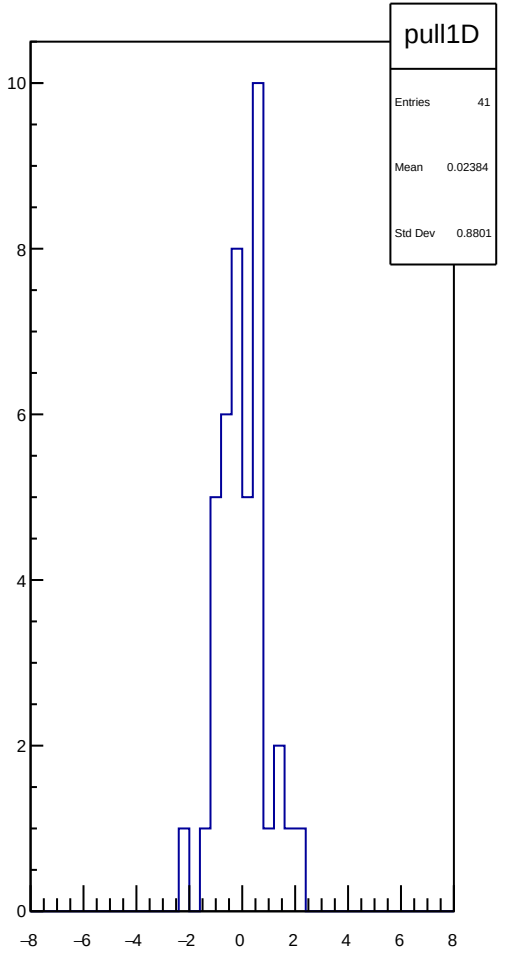

dit_asym_sam2_mean vs run
χ² / ndf 45.3 / 40
p0 340.7 ± 454.3
15000
10000
5000
0
−5000
−10000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 7.762
Std Dev 20.76
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.03019
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

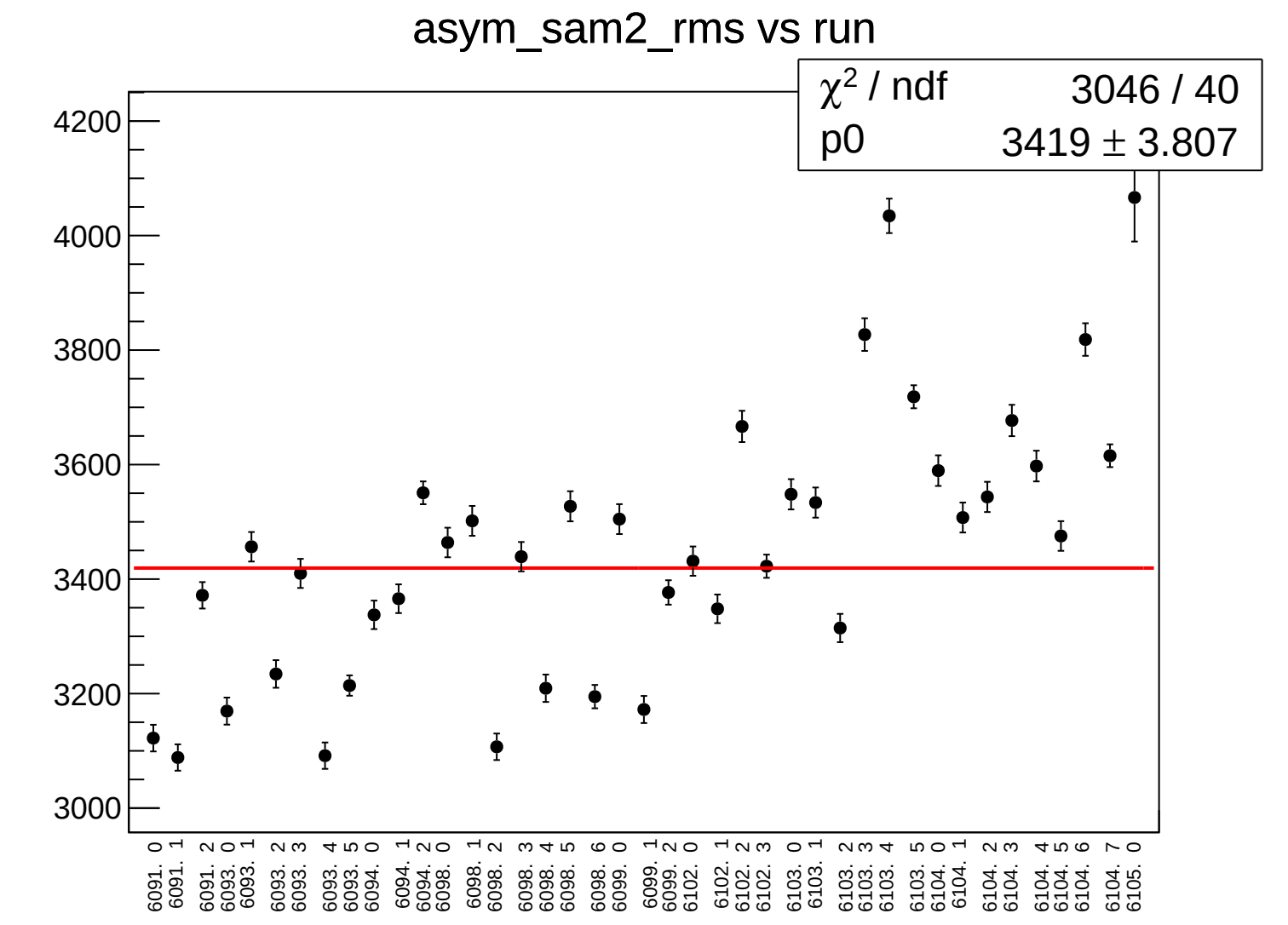

dit_asym_sam2_rms vs run
χ^2 / ndf 1227 / 40
p0 288.9 ± 0.3213
360
340
320
300
280
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

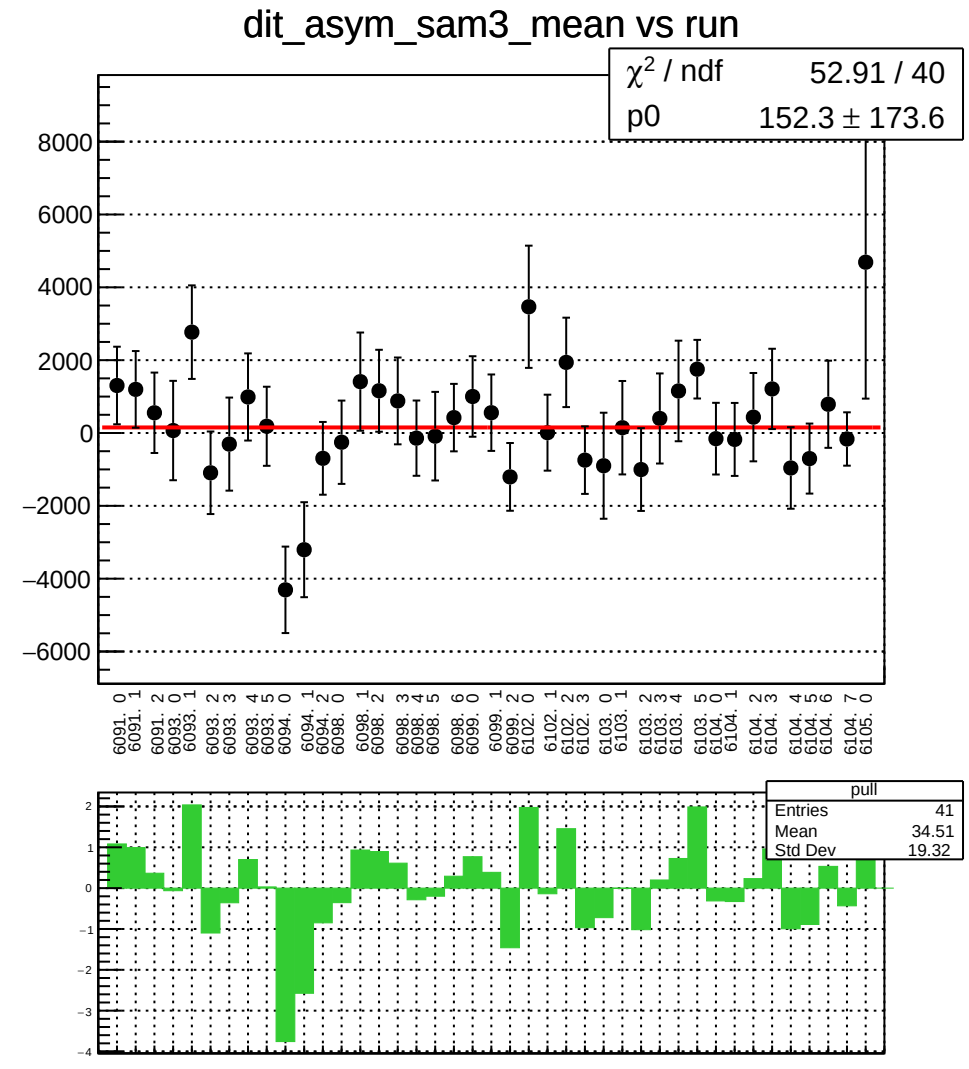

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 31.34 / 40
p0 1901 ± 5373
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 57.42
Std Dev 40.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02009
Std Dev 0.874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

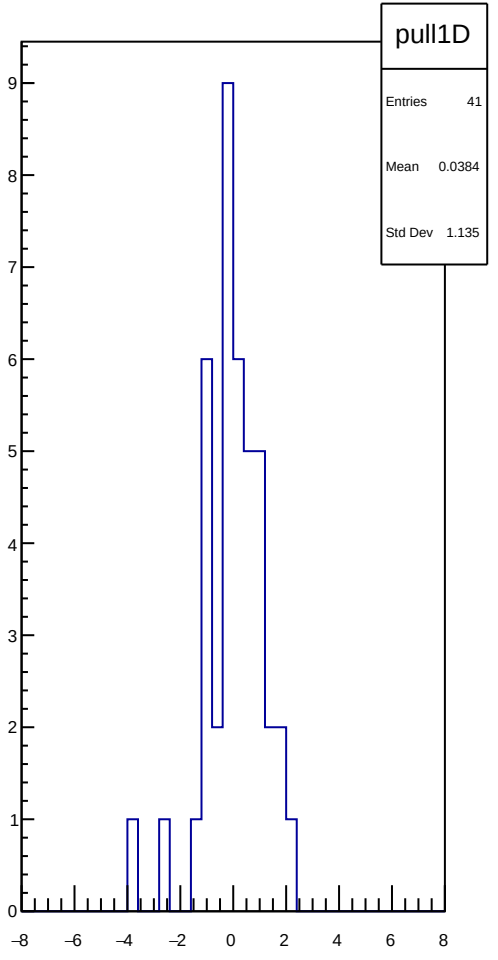

asym_sam2_correction_rms vs run
χ² / ndf 3341 / 40
p0 3412 ± 3.799
4200
4000
3800
3600
3400
3200
3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

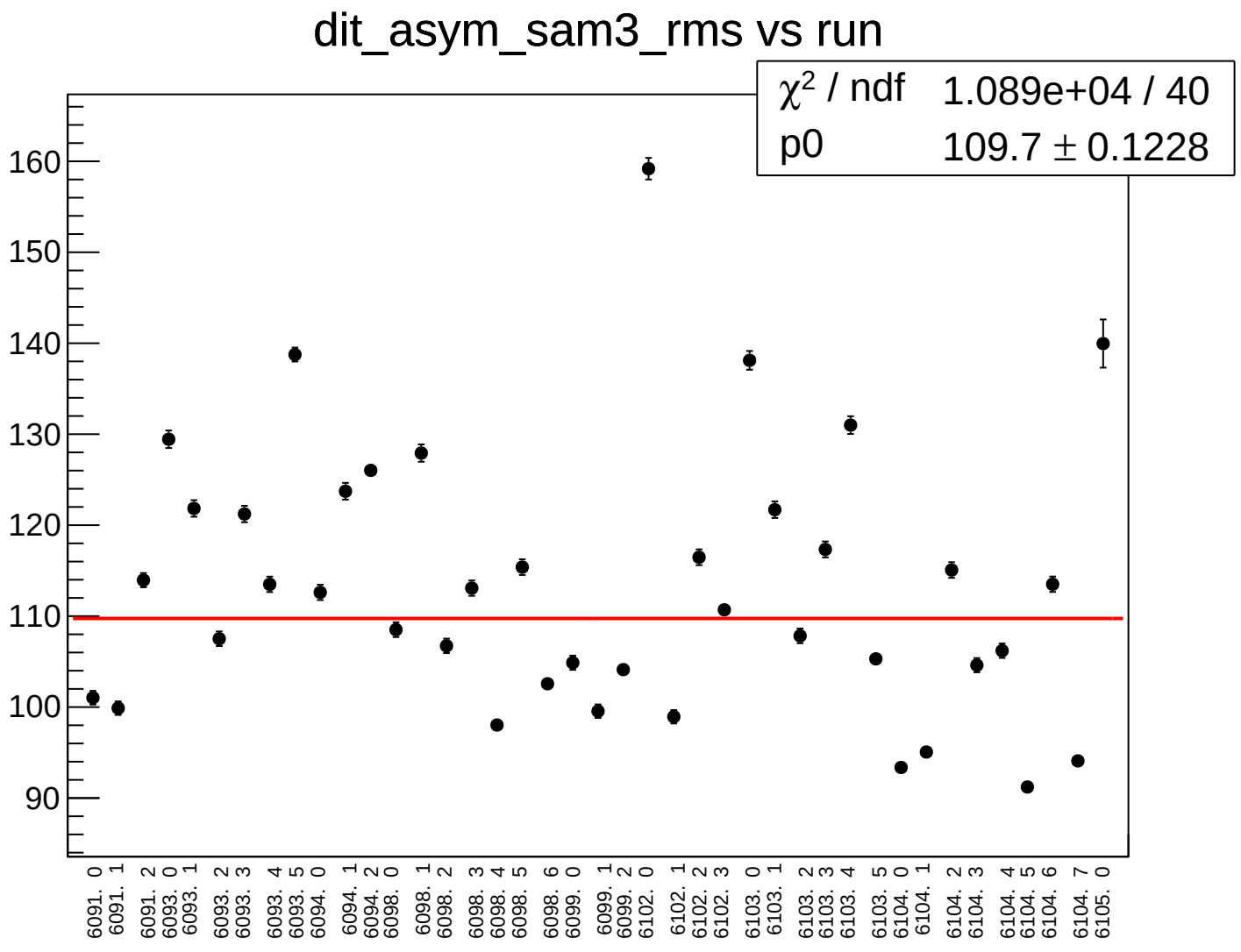

asym_sam2_mean vs run
×10^3
χ^2 / ndf 31.78 / 40
p0 −1656 ± 5383
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 49.61
Std Dev 31.53
2
1
0
−1
−2

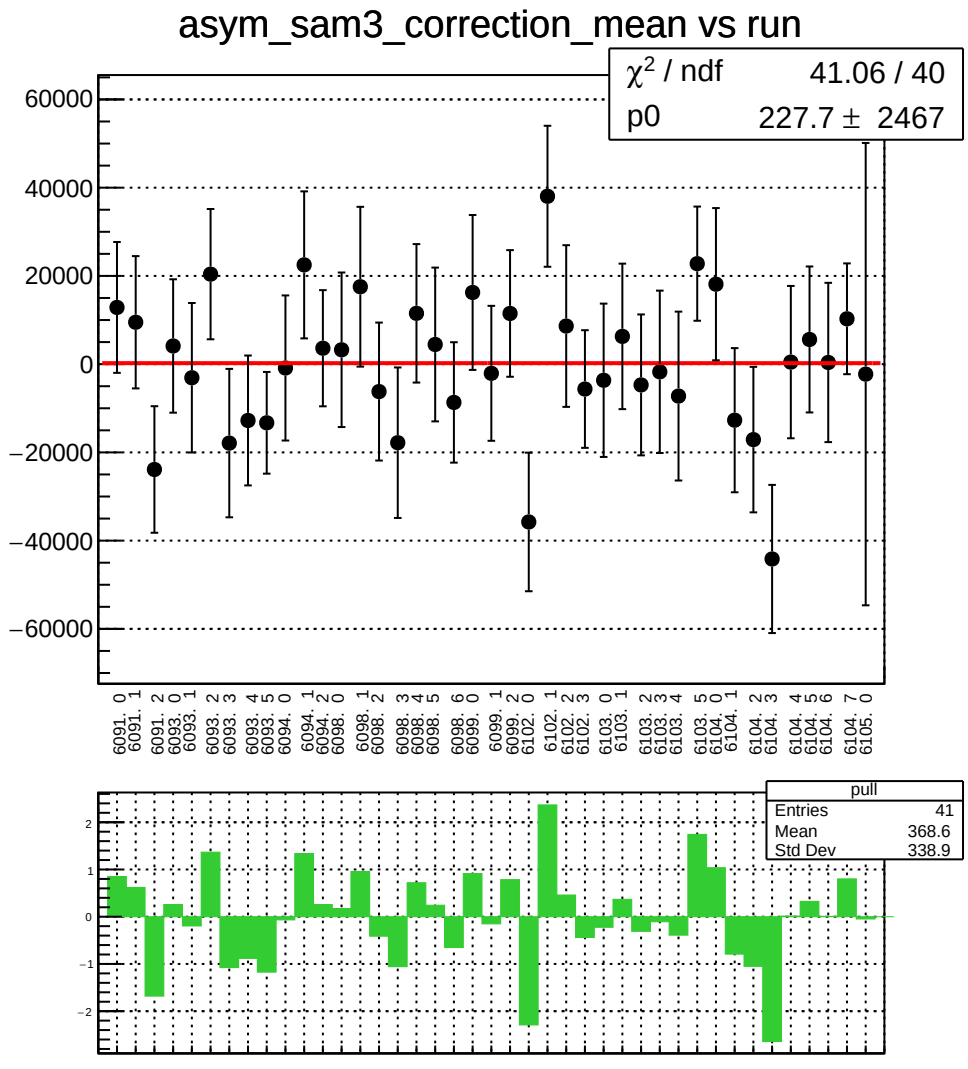

pull1D
Entries 41
Mean 0.02384
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

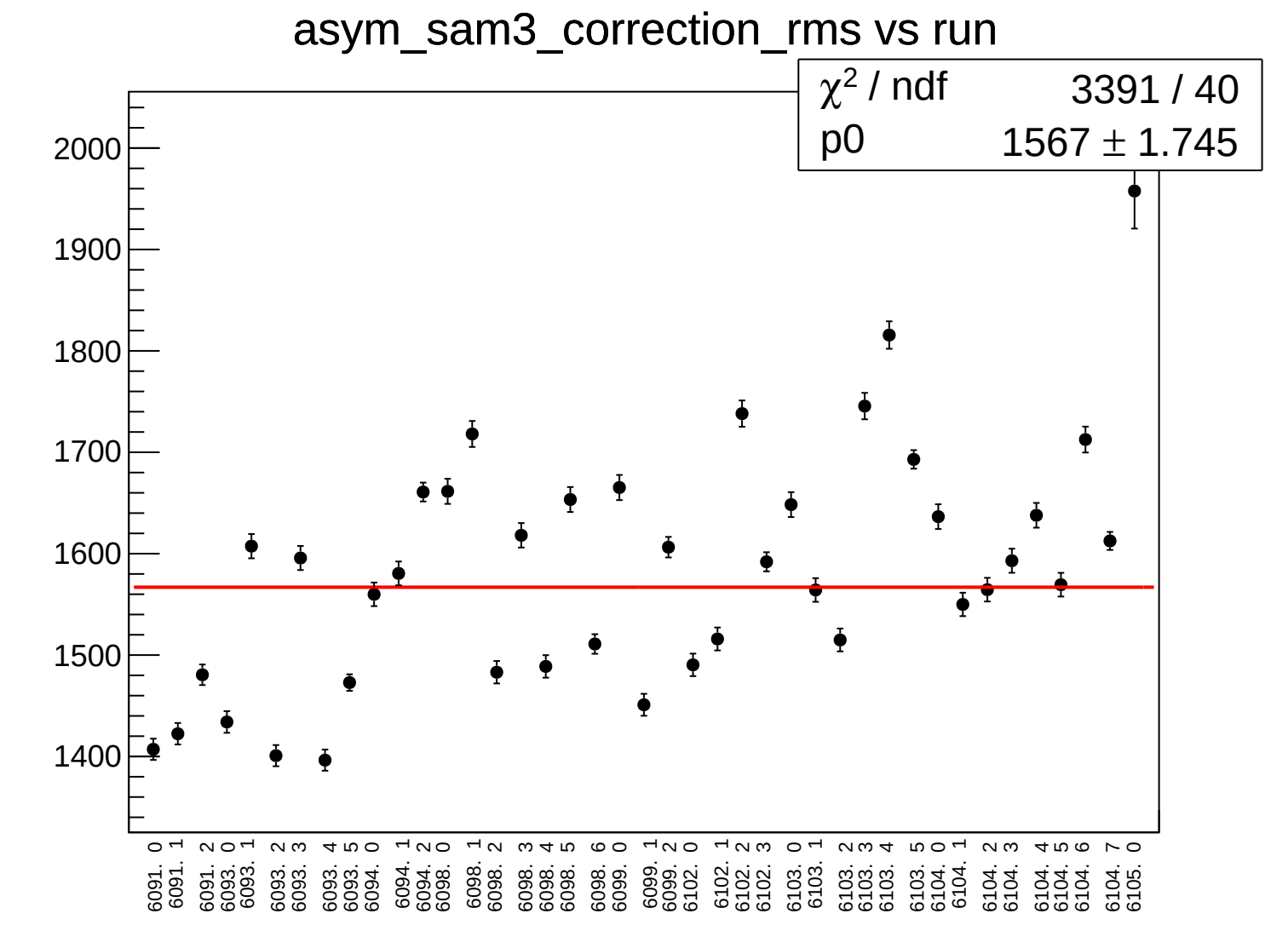

asym_sam2_rms vs run
χ² / ndf 3046 / 40
p0 3419 ± 3.807
4200
4000
3800
3600
3400
3200
3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

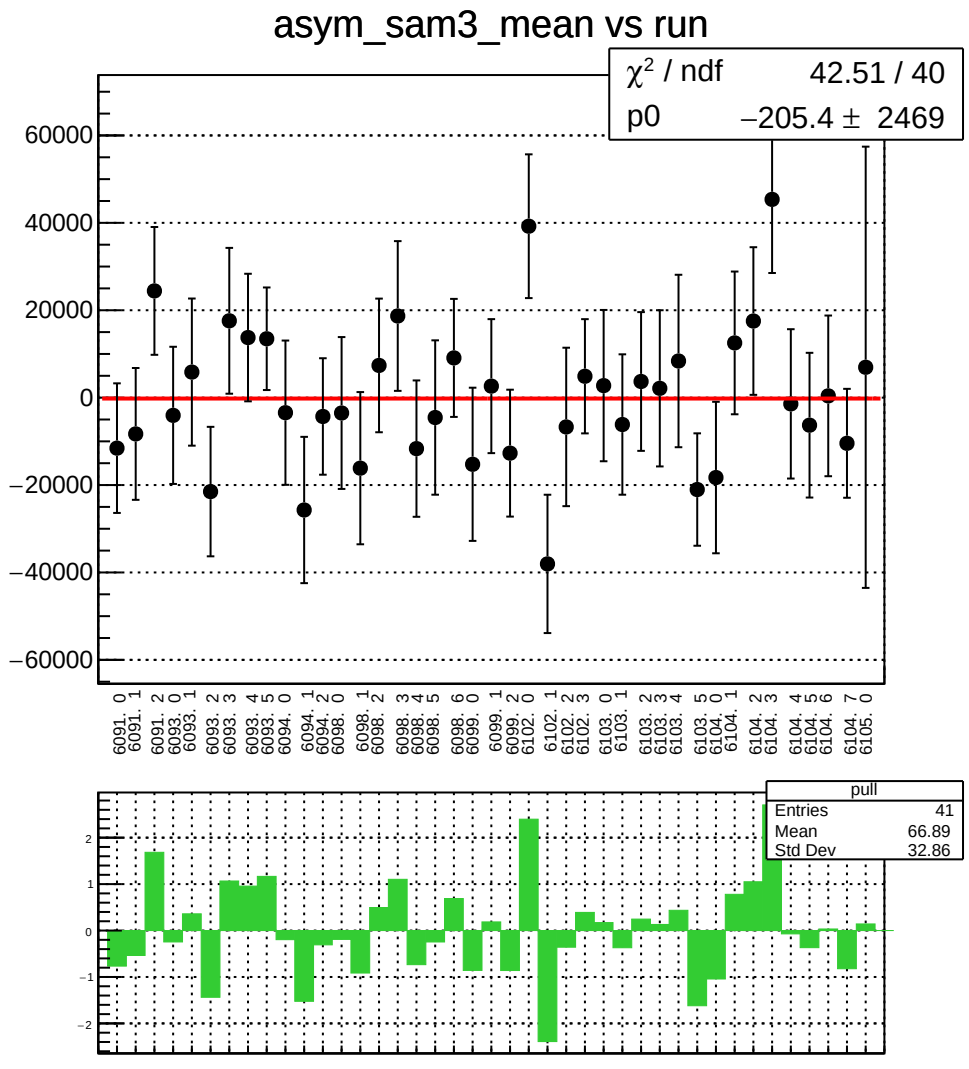

dit_asym_sam3_mean vs run
χ² / ndf 52.91 / 40
p0 152.3 ± 173.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 34.51
Std Dev 19.32
2
1
0
−1
−2
−3
−4

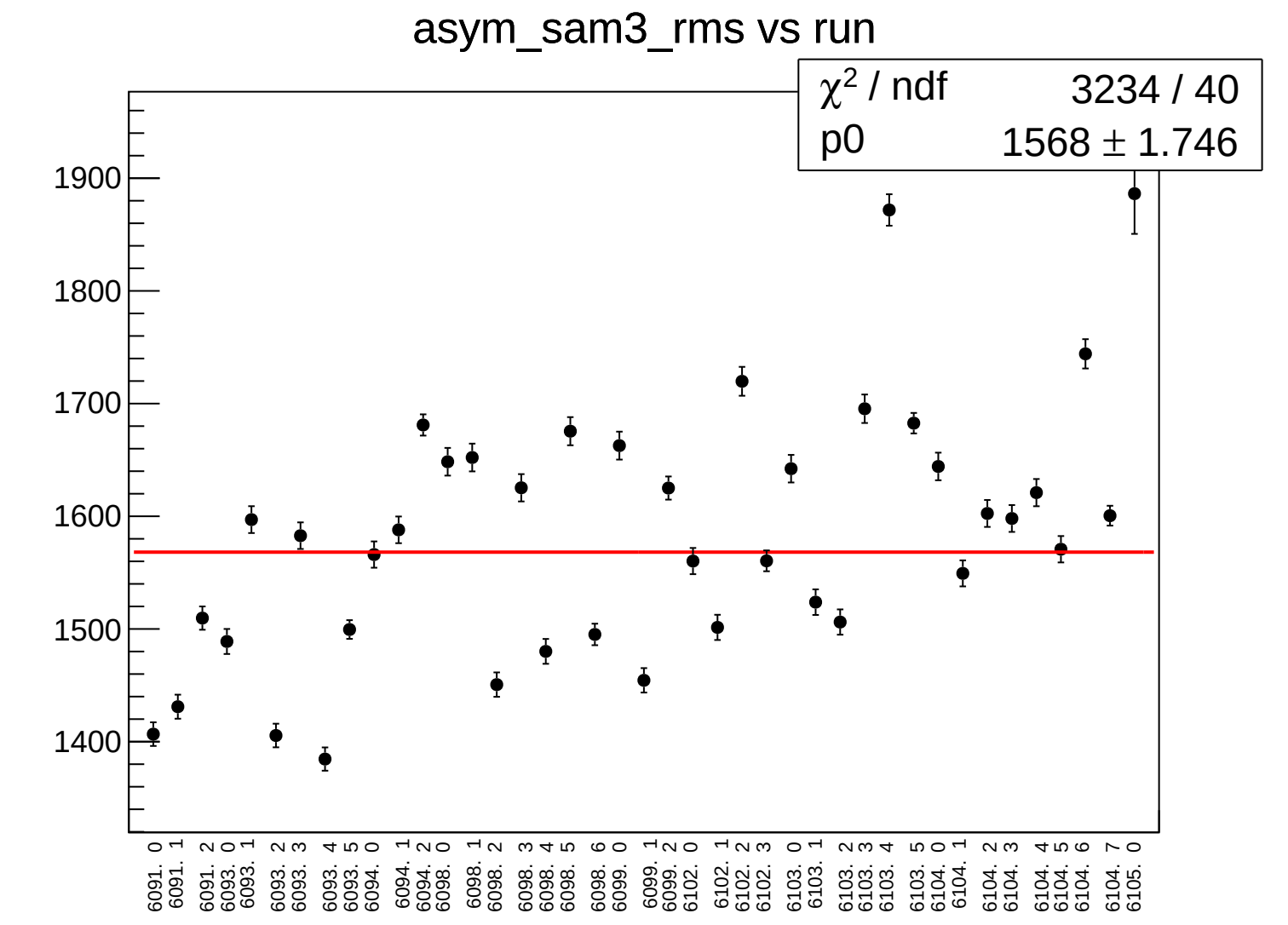

pull1D
Entries 41
Mean 0.0384
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

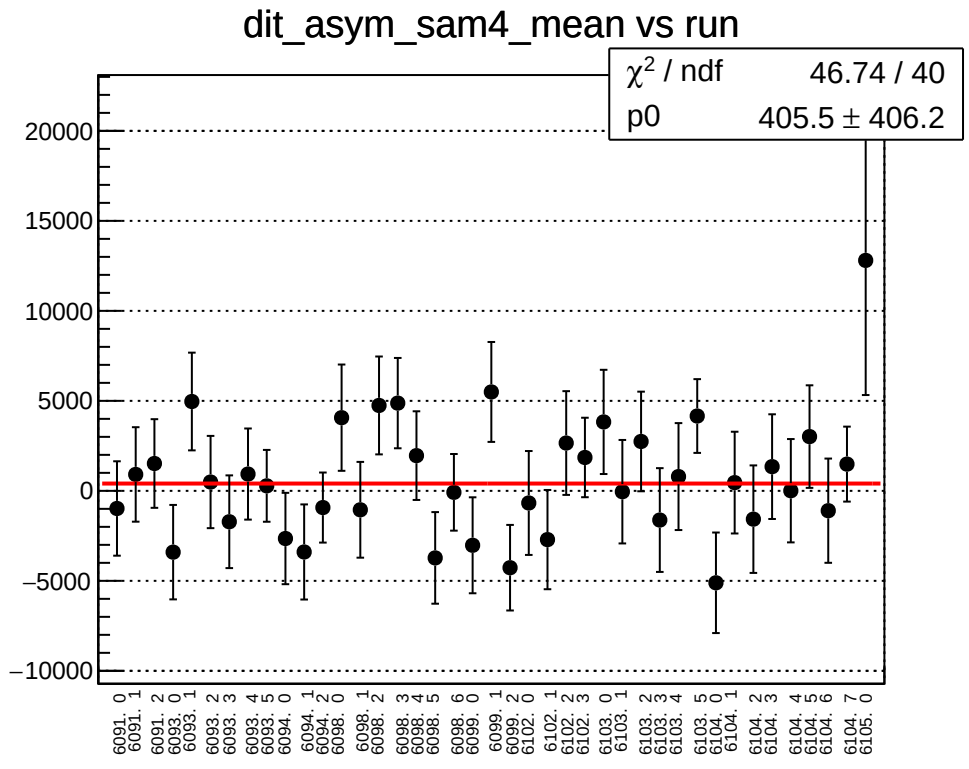

dit_asym_sam3_rms vs run
χ² / ndf 1.089e+04 / 40
p0 109.7 ± 0.1228
160
150
140
130
120
110
100
90
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

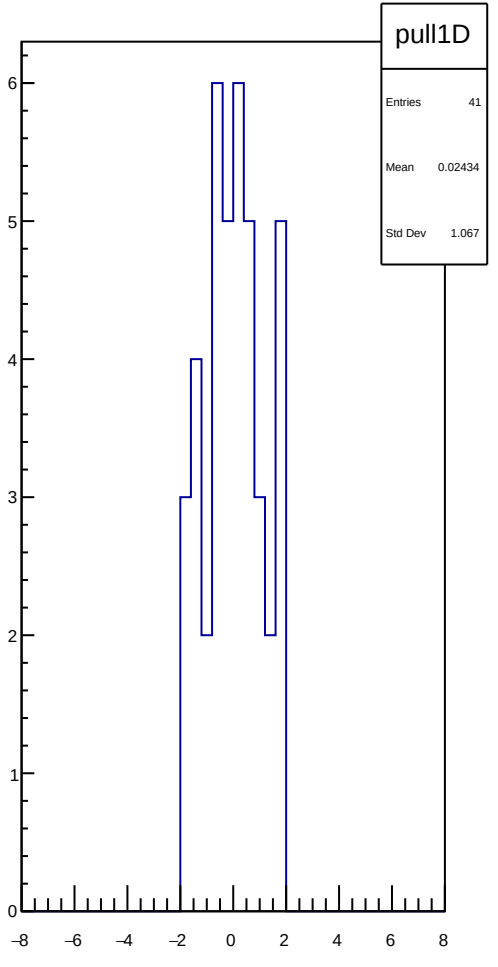

asym_sam3_correction_mean vs run
χ² / ndf 41.06 / 40
p0 227.7 ± 2467
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 368.6
Std Dev 338.9
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.0009919
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

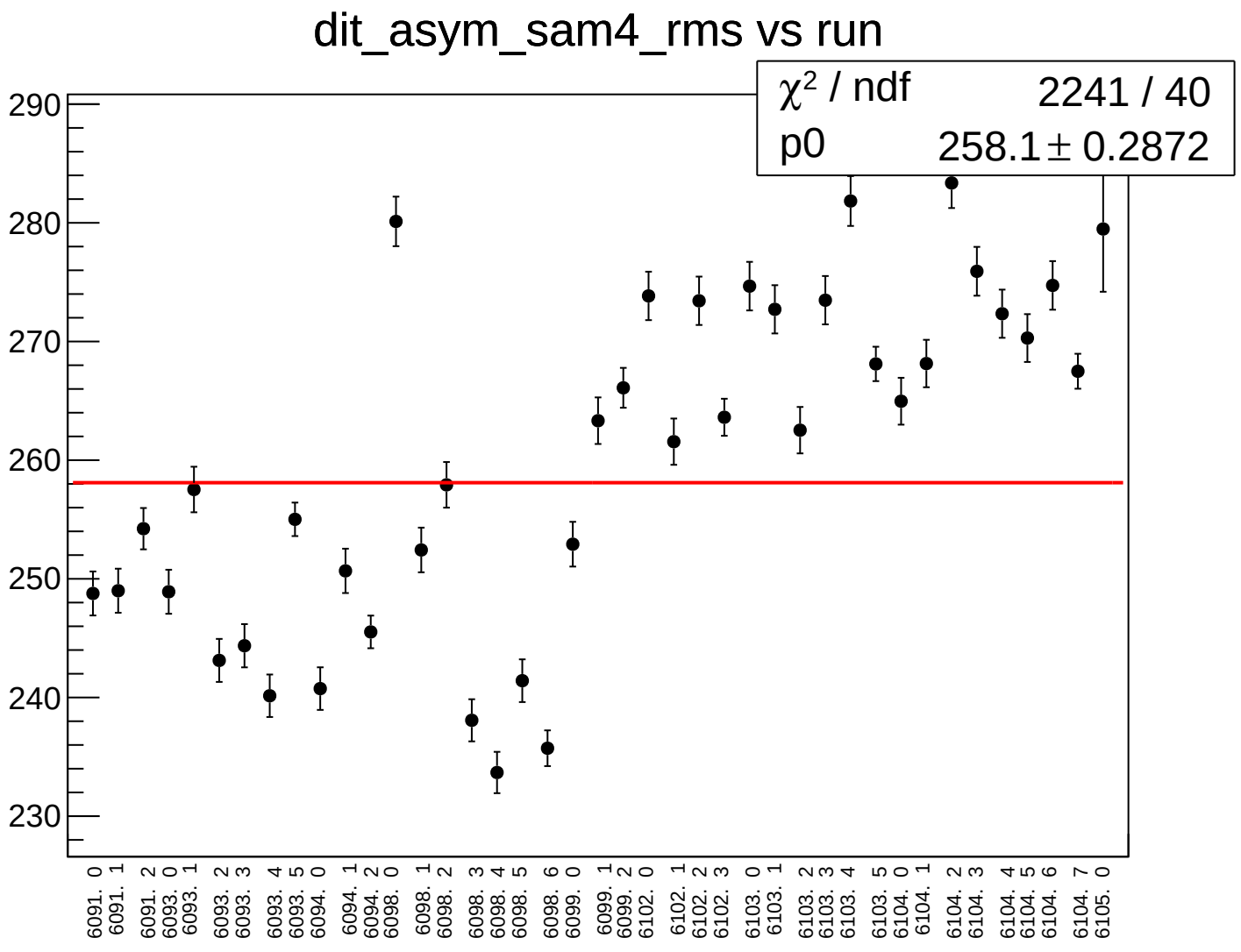

asym_sam3_correction_rms vs run
χ² / ndf 3391 / 40
p0 1567 ± 1.745
2000
1900
1800
1700
1600
1500
1400
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

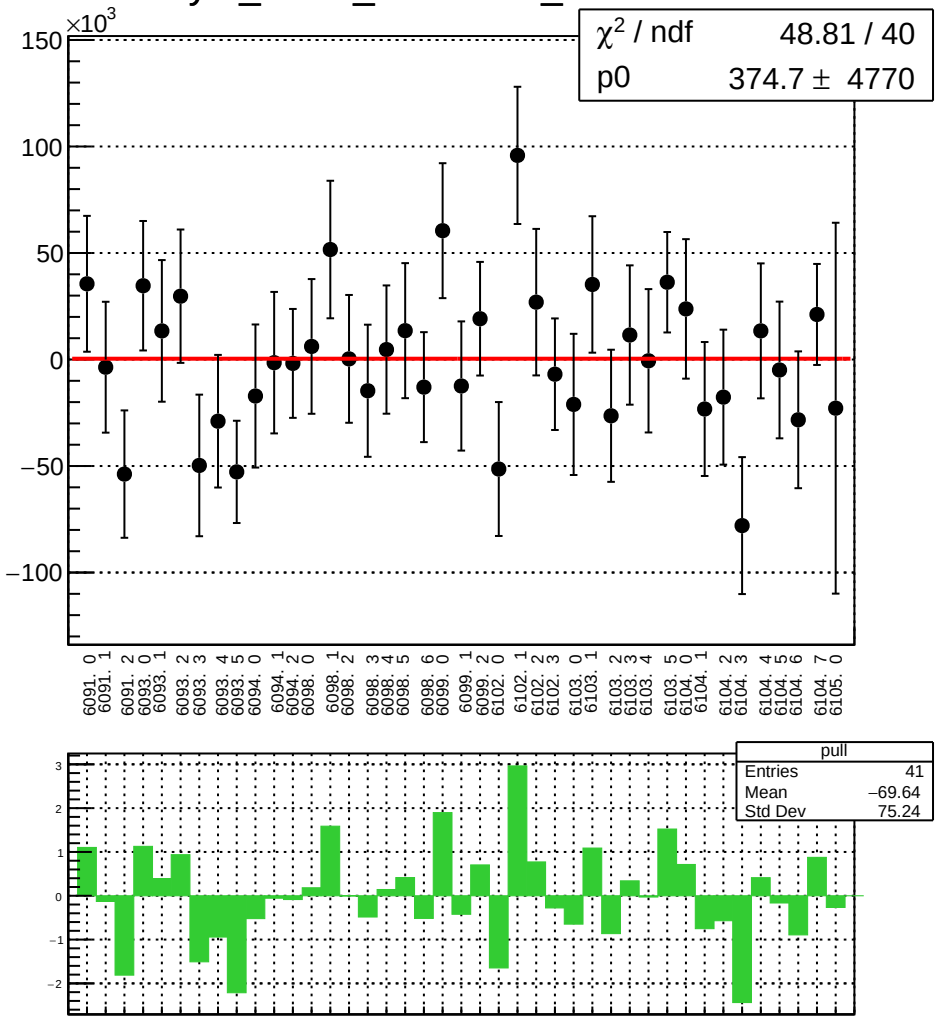

asym_sam3_mean vs run
χ² / ndf 42.51 / 40
p0 −205.4 ± 2469
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 66.89
Std Dev 32.86
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.008035
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

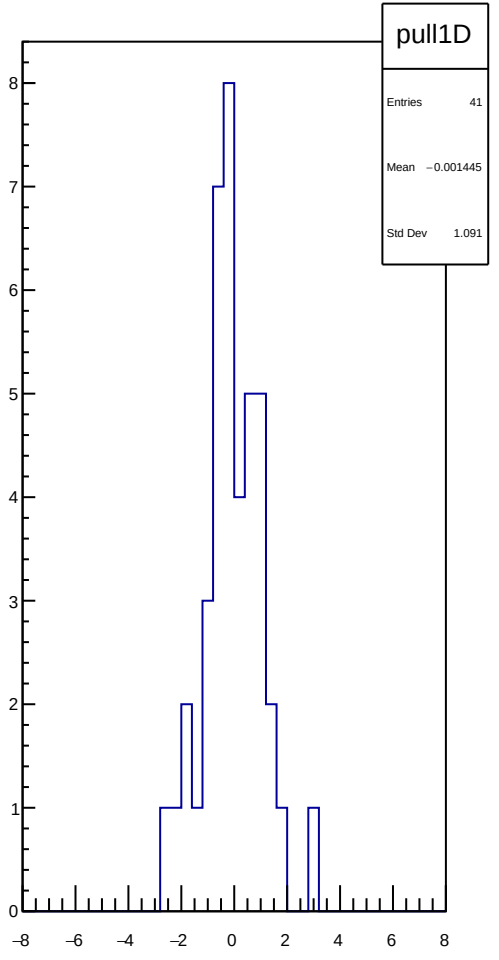

asym_sam3_rms vs run
χ² / ndf 3234 / 40
p0 1568 ± 1.746
1900
1800
1700
1600
1500
1400
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

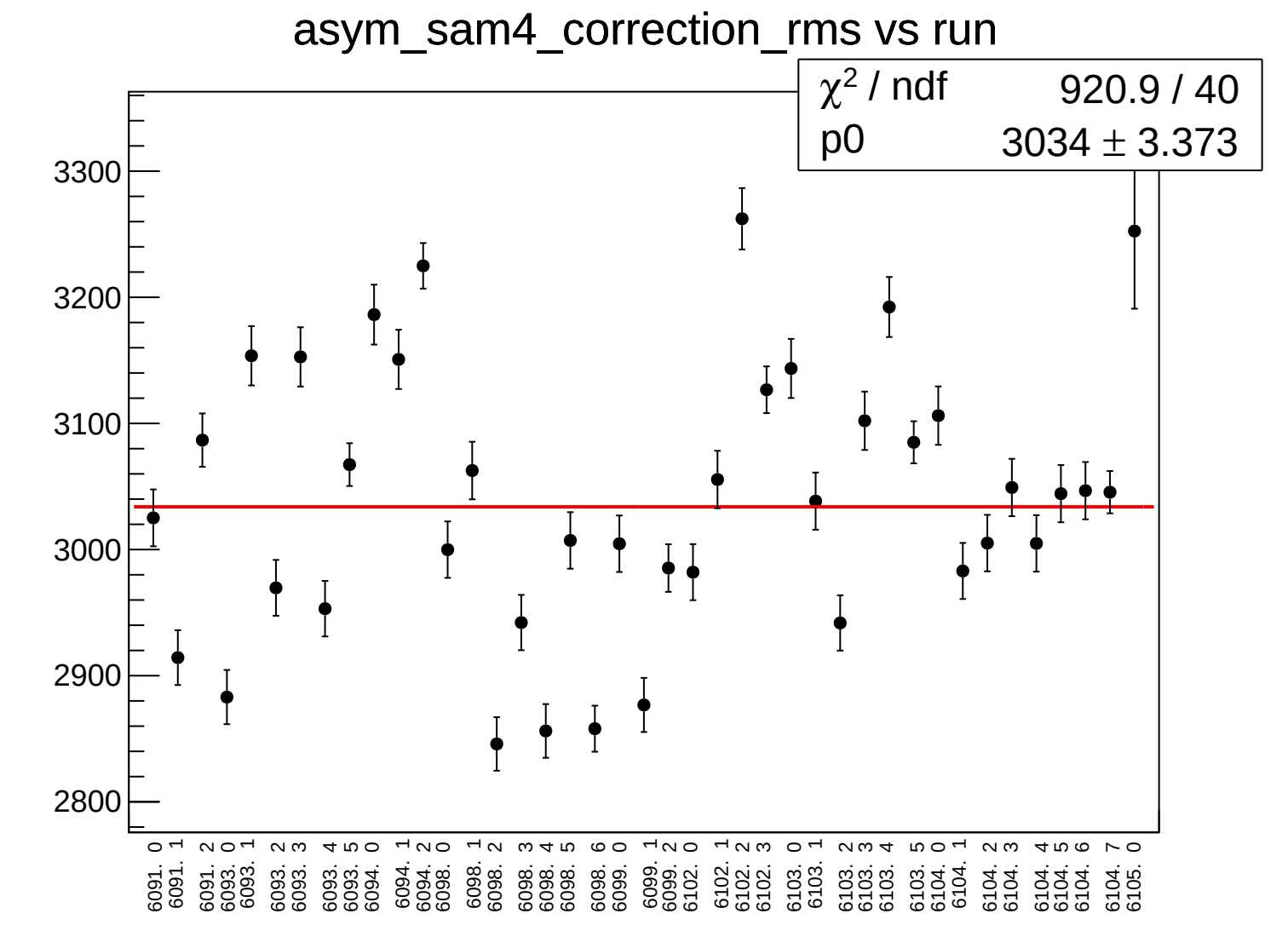

dit_asym_sam4_mean vs run
χ² / ndf 46.74 / 40
p0 405.5 ± 406.2
20000
15000
10000
5000
0
−5000
−10000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 86.92
Std Dev 62.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

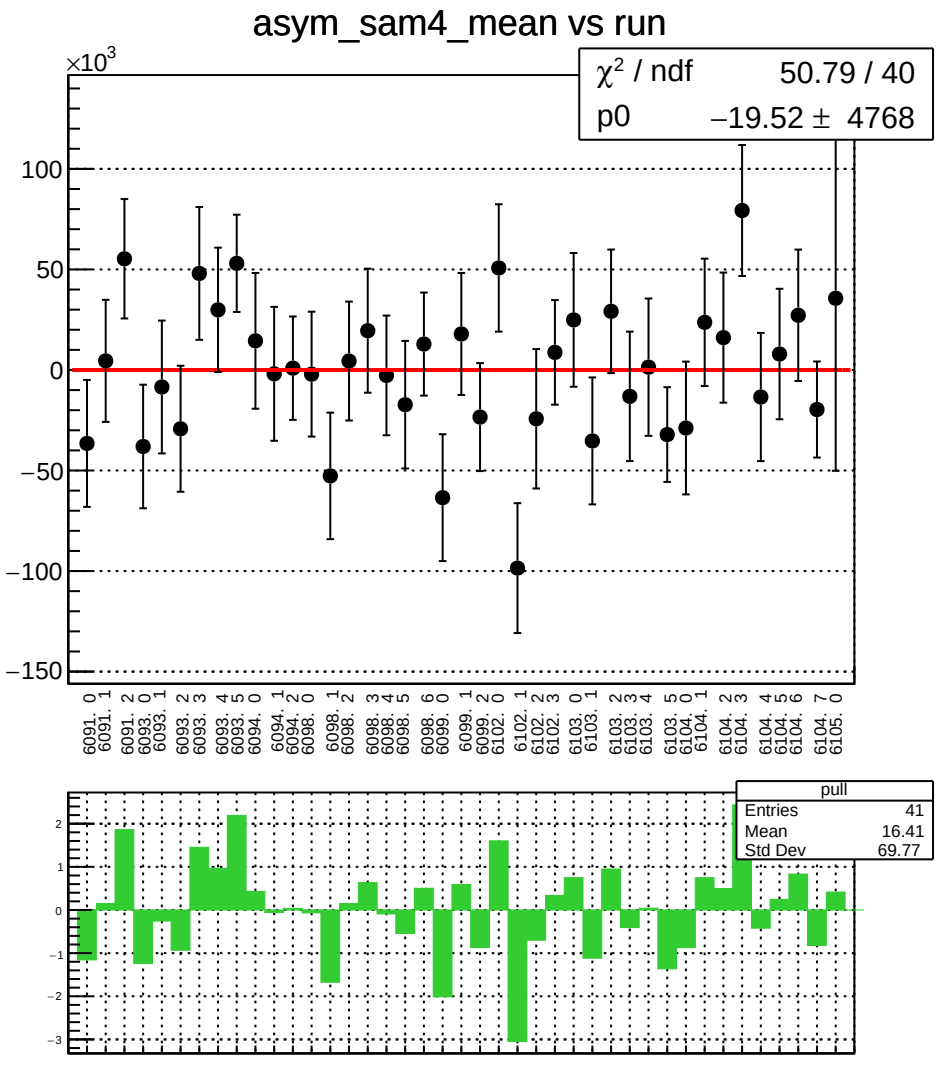

pull1D
Entries 41
Mean 0.02434
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

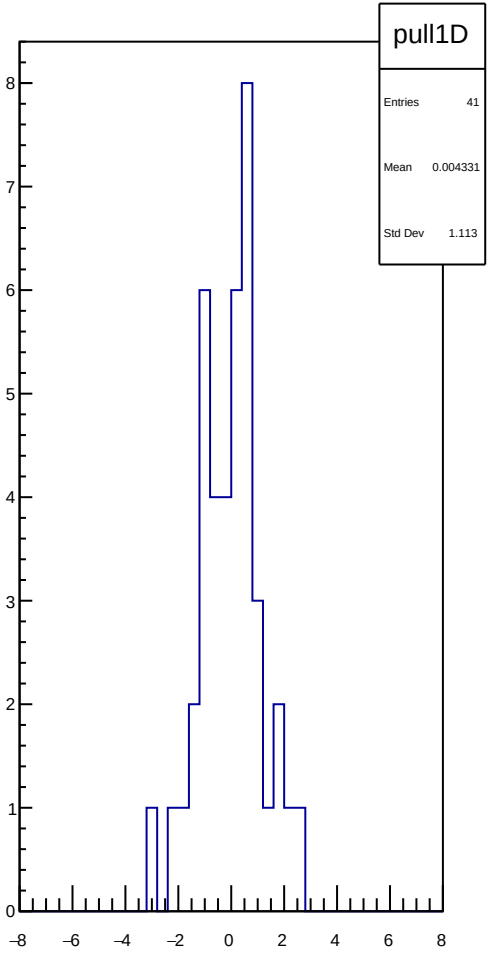

dit_asym_sam4_rms vs run
χ² / ndf 2241 / 40
p0 258.1 ± 0.2872
290
280
270
260
250
240
230
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

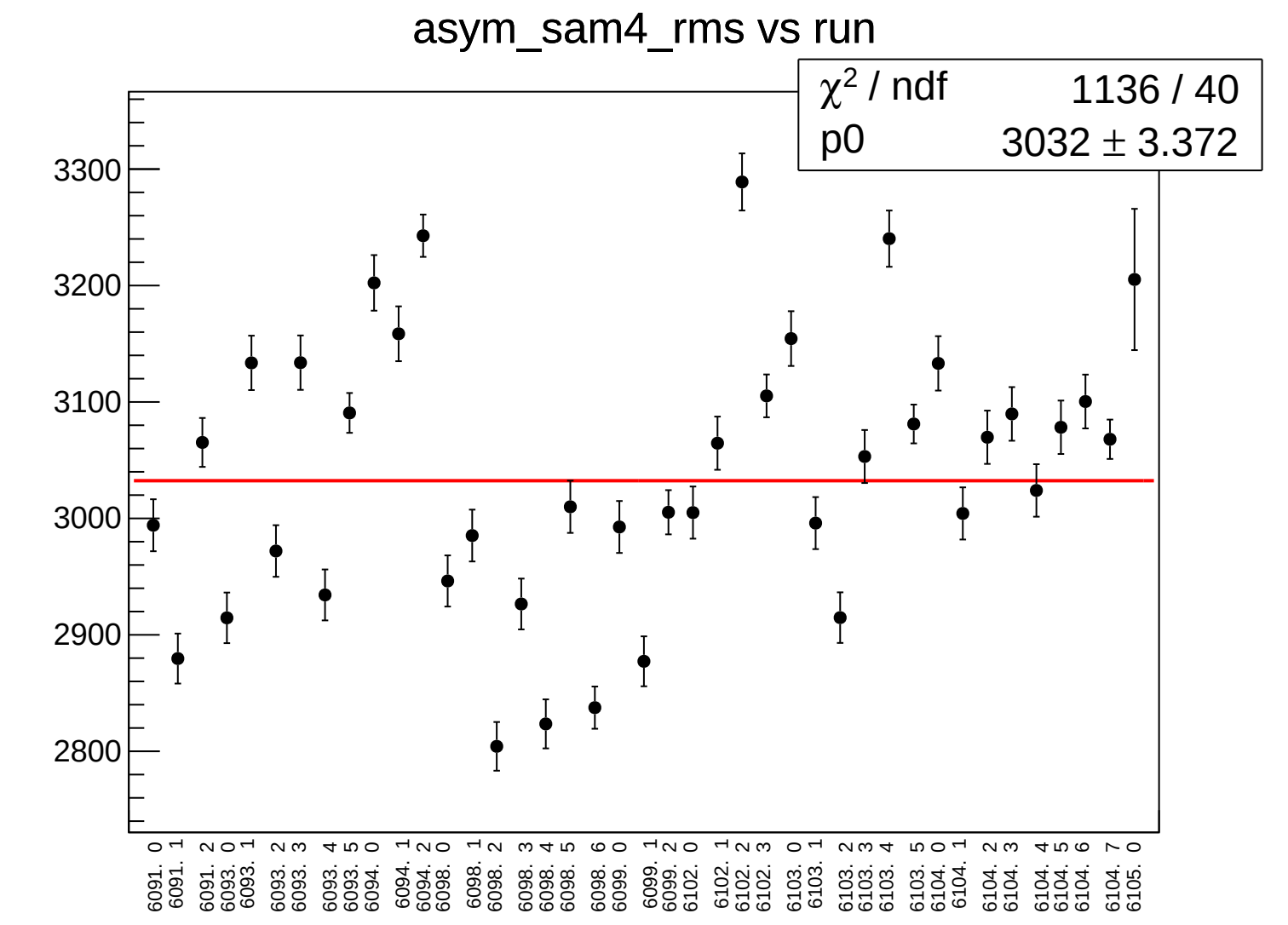

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 48.81 / 40
p0 374.7 ± 4770
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −69.64
Std Dev 75.24
3
2
1
0
−1
−2

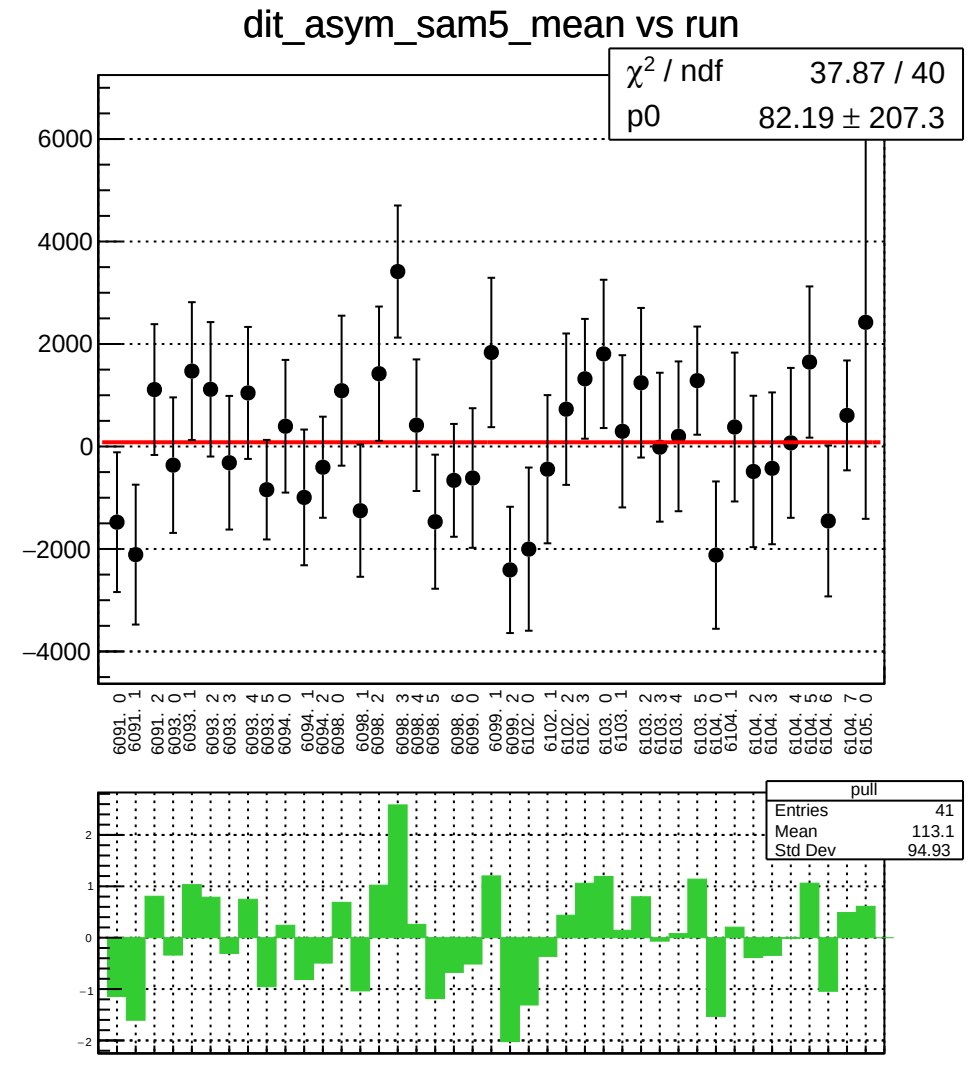

pull1D
Entries 41
Mean −0.001445
Std Dev 1.091
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

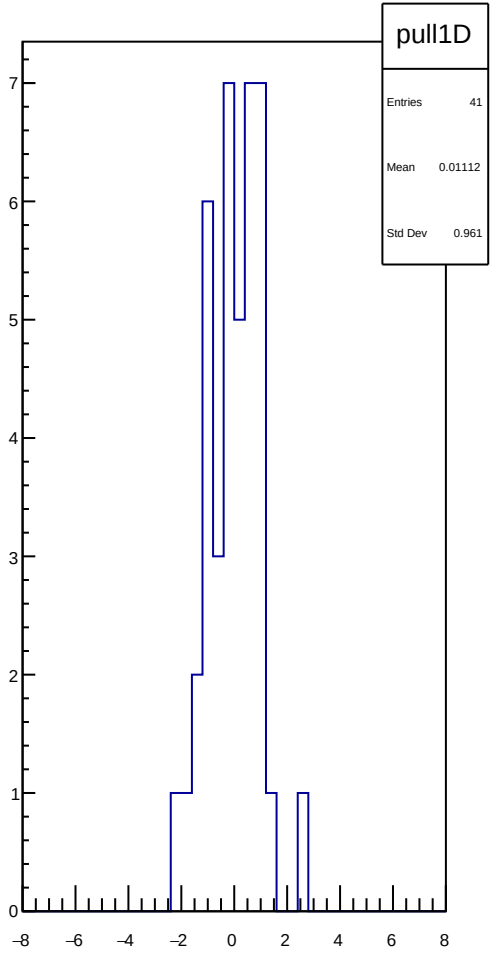

asym_sam4_correction_rms vs run
χ² / ndf 920.9 / 40
p0 3034 ± 3.373
3300
3200
3100
3000
2900
2800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

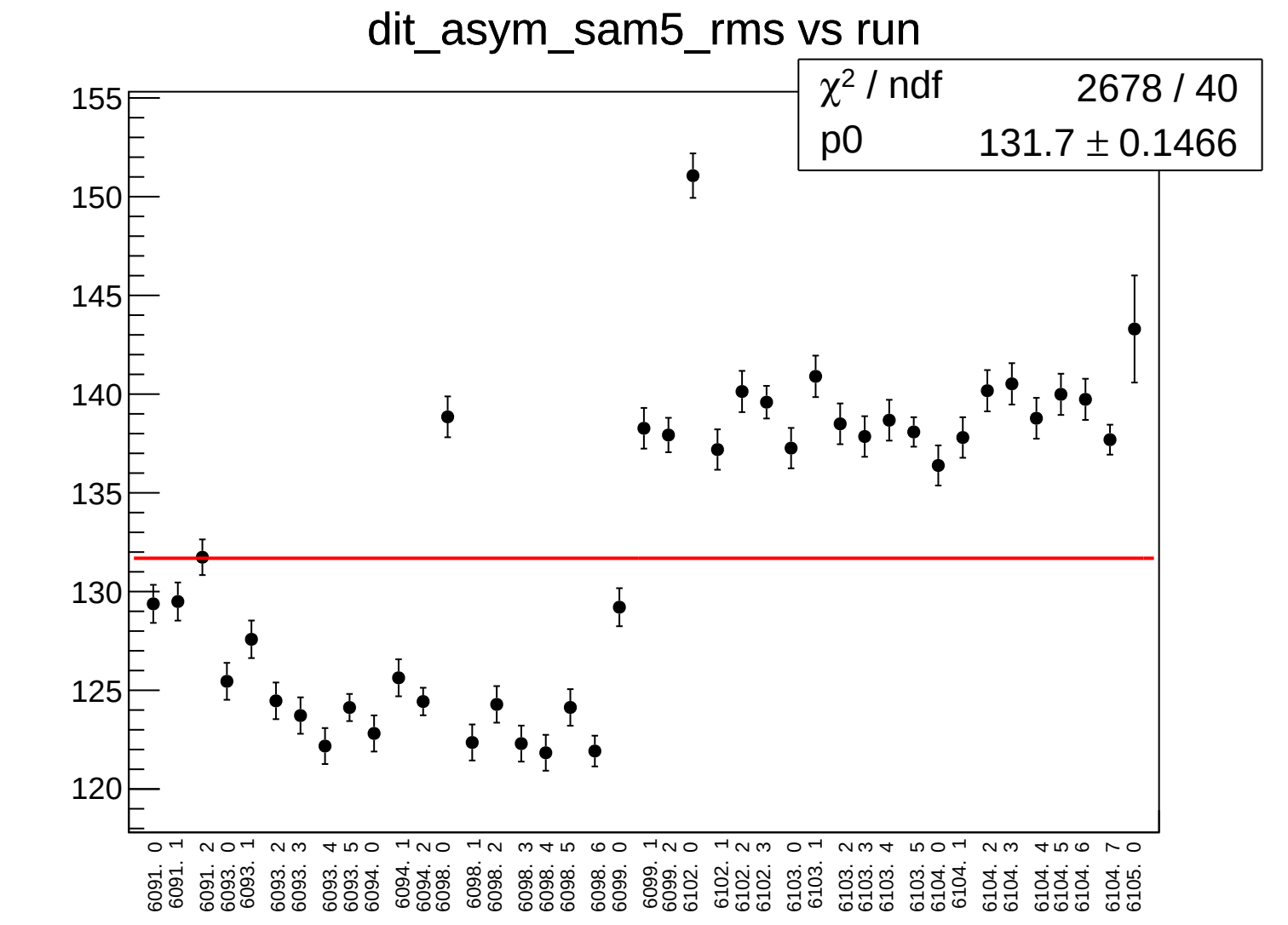

asym_sam4_mean vs run
×10^3
χ² / ndf 50.79 / 40
p0 −19.52 ± 4768
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 16.41
Std Dev 69.77
2
1
0
−1
−2
−3

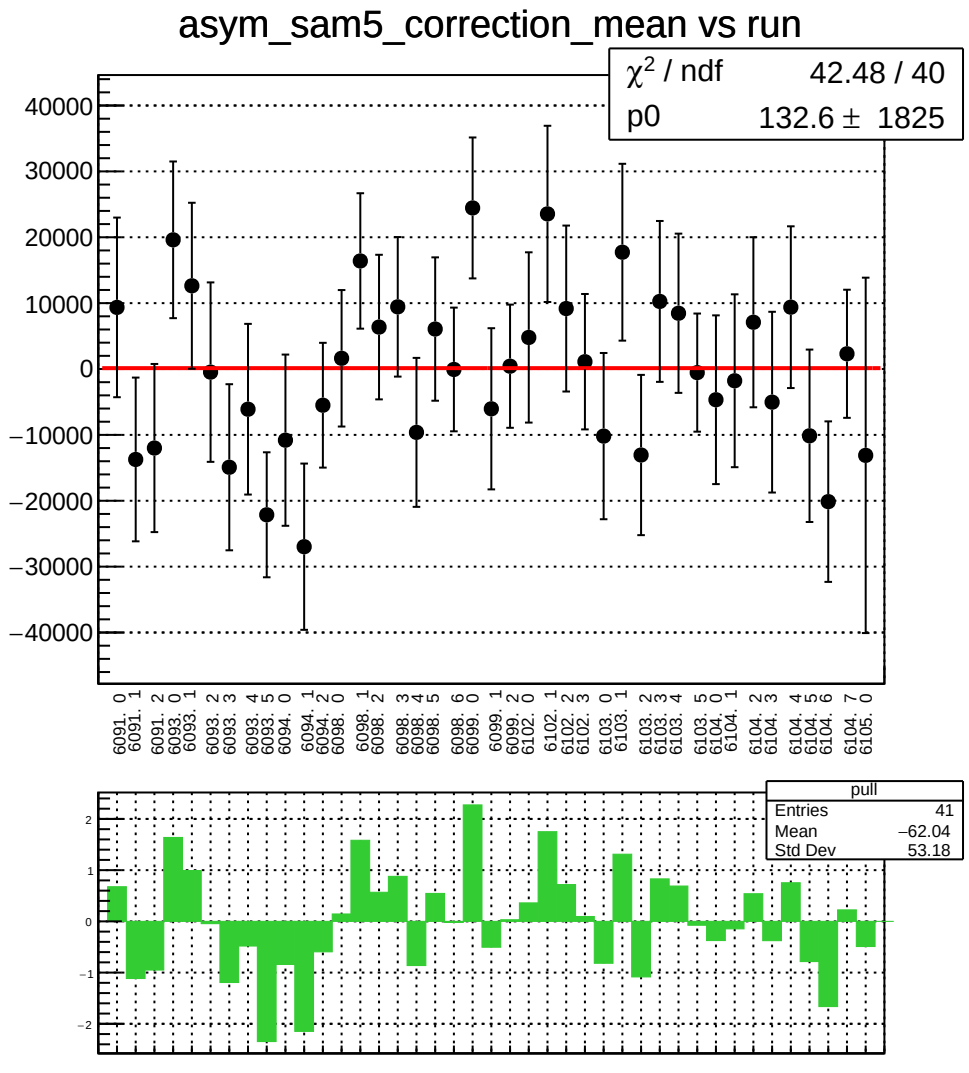

pull1D
Entries 41
Mean 0.004331
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

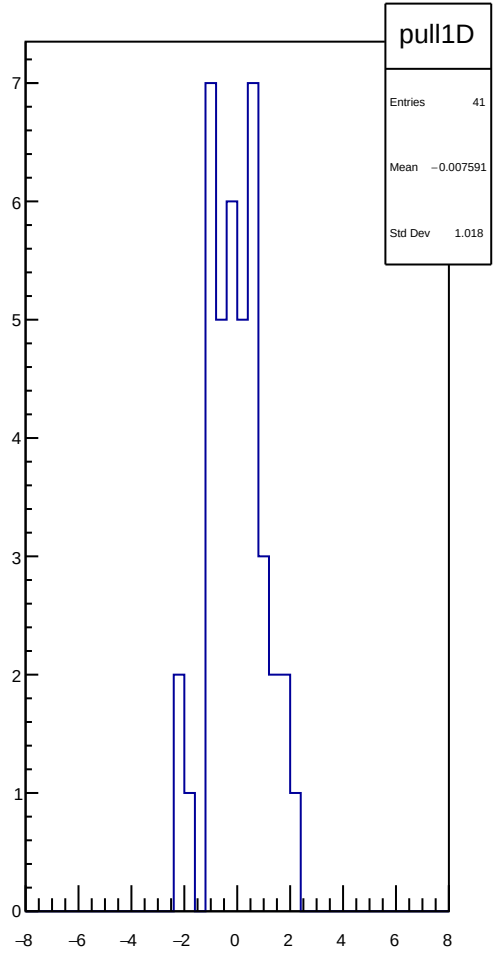

asym_sam4_rms vs run
χ² / ndf 1136 / 40
p0 3032 ± 3.372
3300
3200
3100
3000
2900
2800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

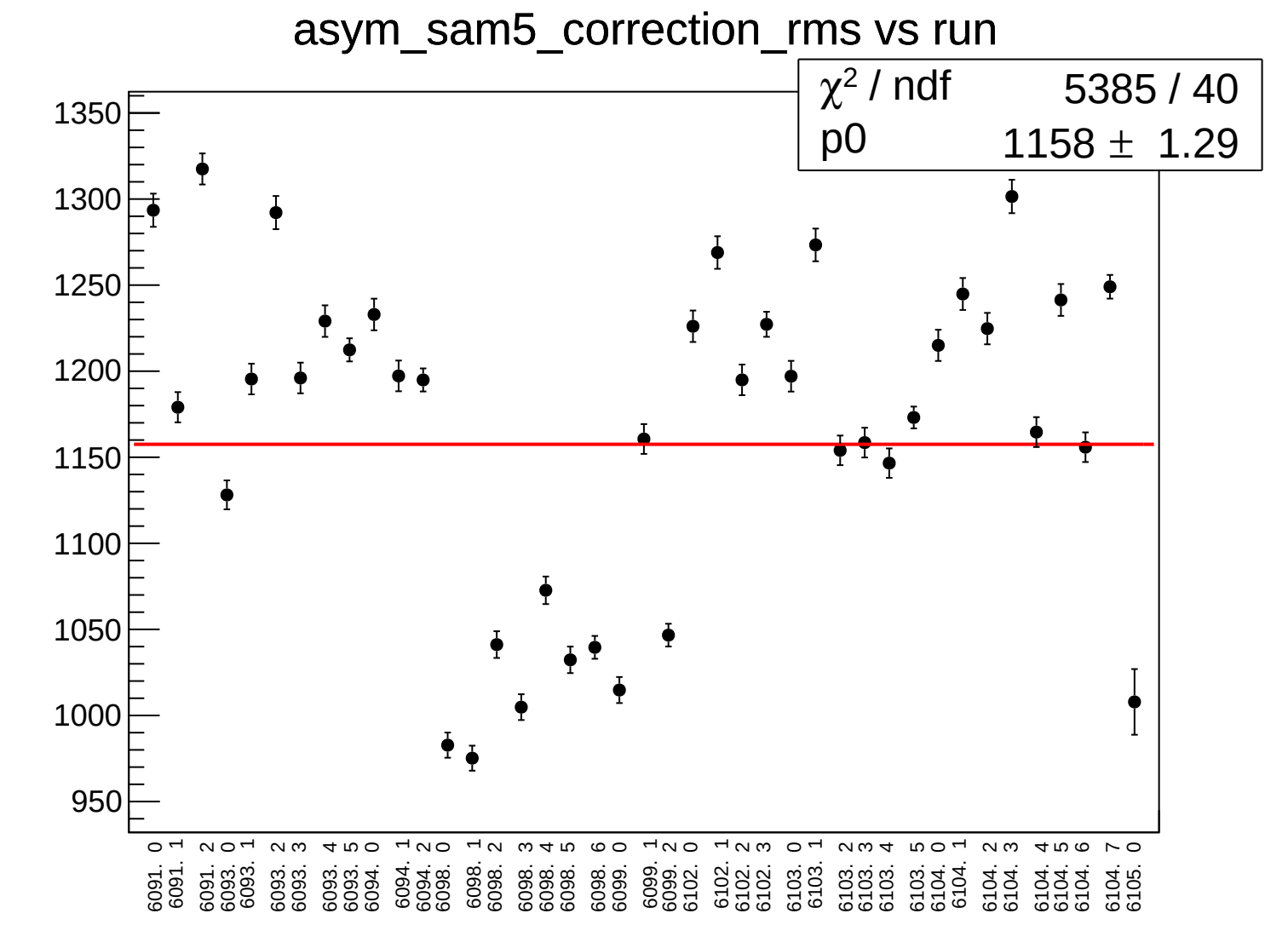

dit_asym_sam5_mean vs run
χ^2 / ndf 37.87 / 40
p0 82.19 ± 207.3
6000
4000
2000
0
−2000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 113.1
Std Dev 94.93
2
1
0
−1
−2

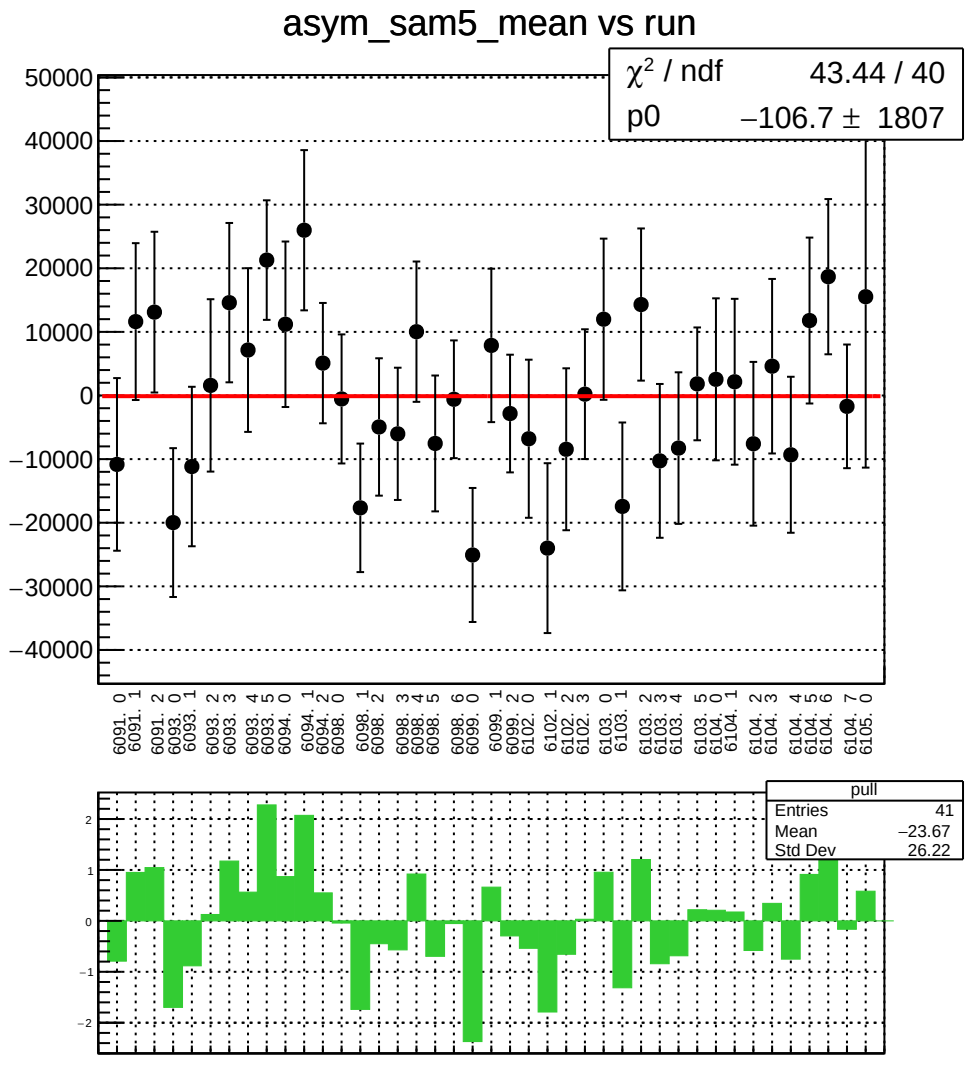

pull1D
Entries 41
Mean 0.01112
Std Dev 0.961
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

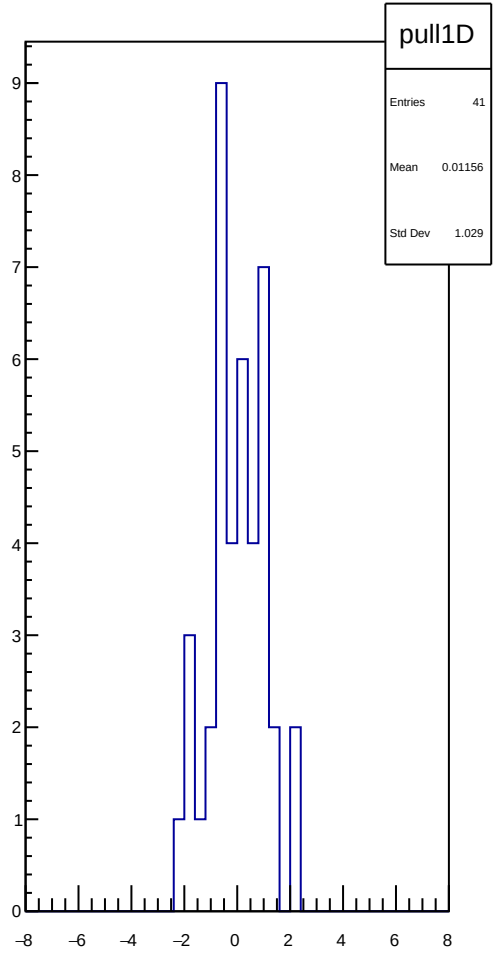

dit_asym_sam5_rms vs run
χ² / ndf 2678 / 40
p0 131.7 ± 0.1466
155
150
145
140
135
130
125
120
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

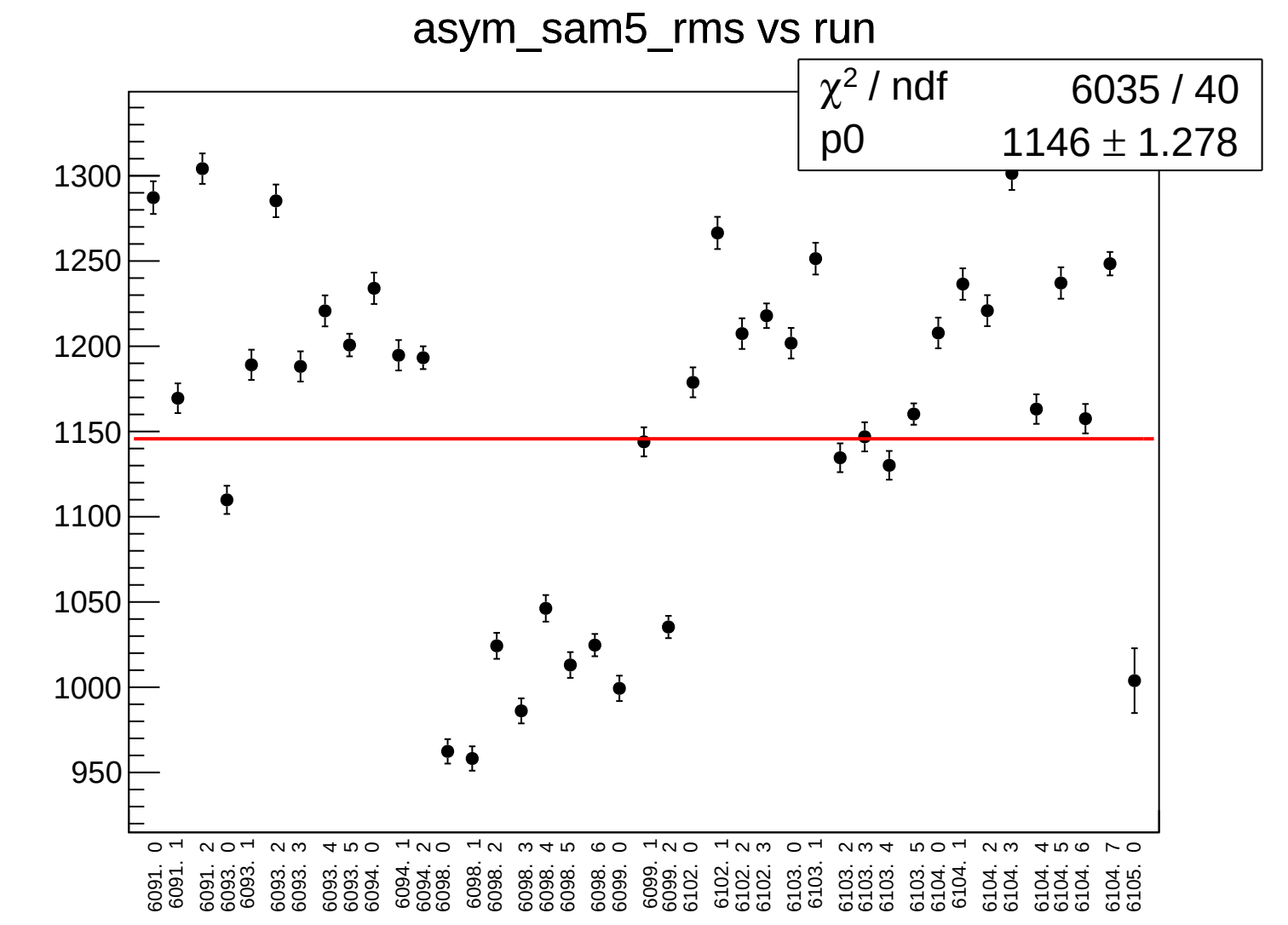

asym_sam5_correction_mean vs run
χ² / ndf 42.48 / 40
p0 132.6 ± 1825
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −62.04
Std Dev 53.18
2
1
0
−1
−2

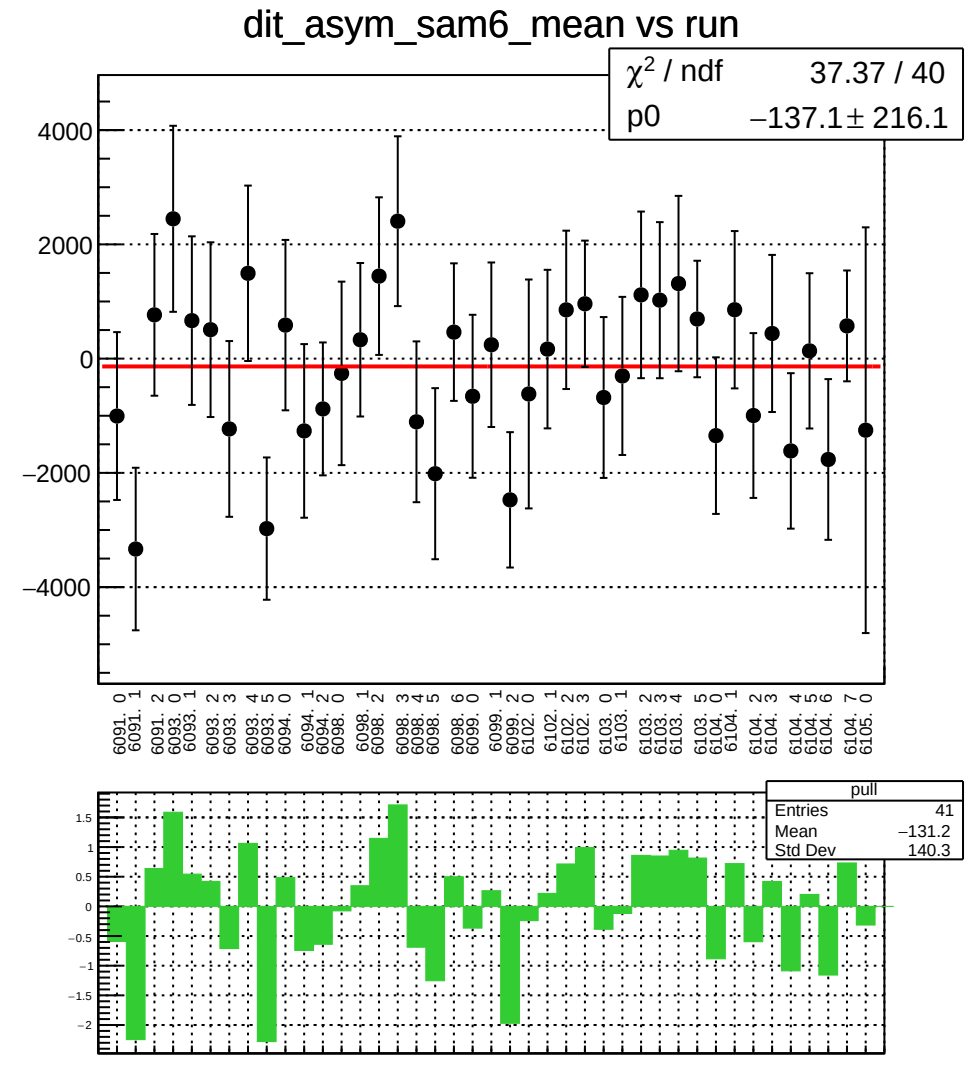

pull1D
Entries 41
Mean −0.007591
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

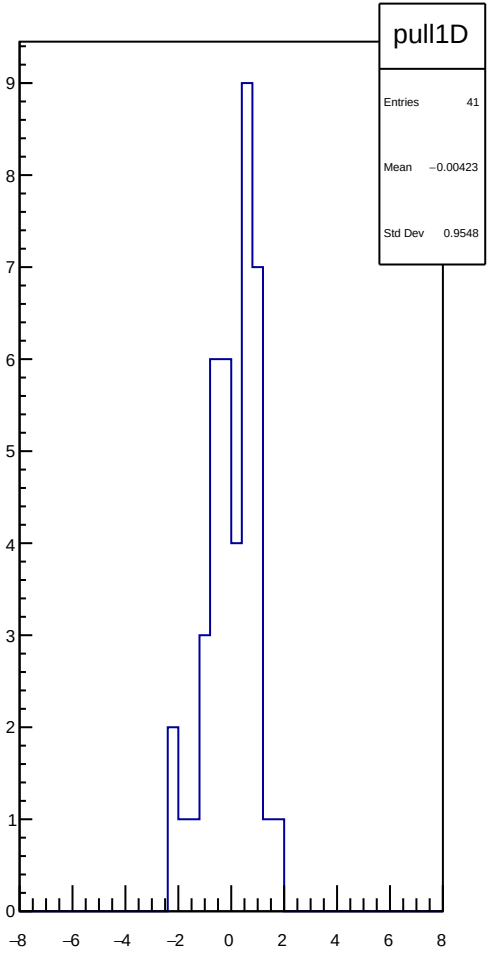

asym_sam5_correction_rms vs run
χ² / ndf 5385 / 40
p0 1158 ± 1.29
1350
1300
1250
1200
1150
1100
1050
1000
950
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

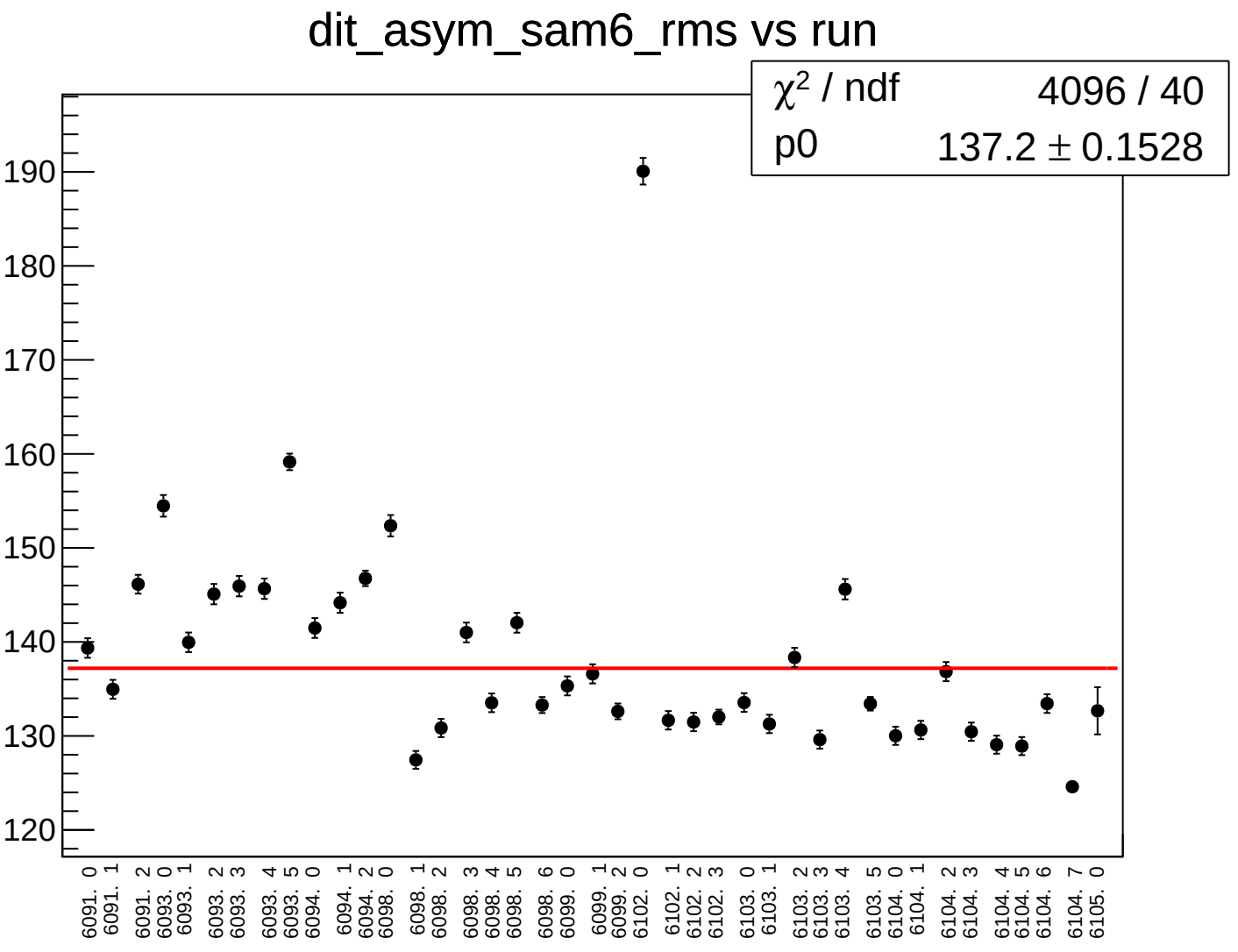

asym_sam5_mean vs run
χ² / ndf 43.44 / 40
p0 −106.7 ± 1807
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −23.67
Std Dev 26.22
2
1
0
−1
−2

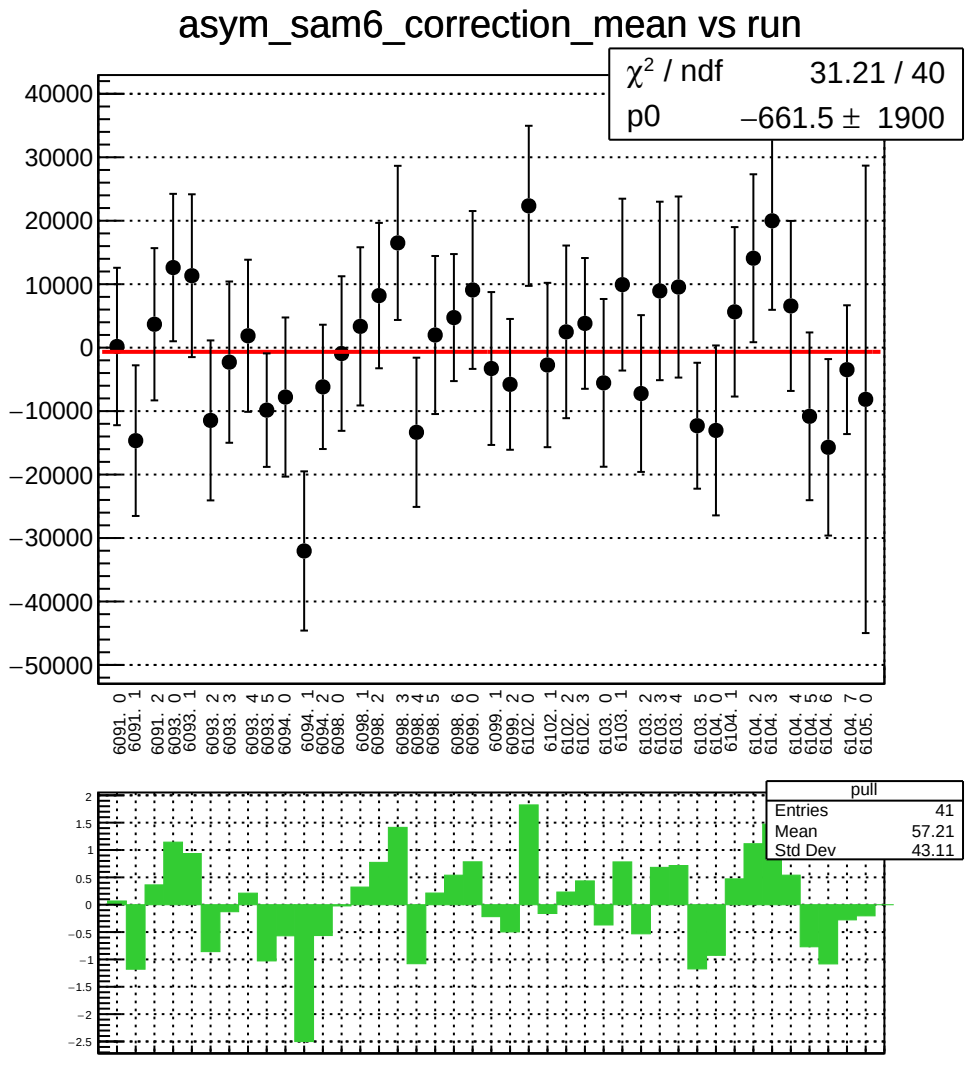

pull1D
Entries 41
Mean 0.01156
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

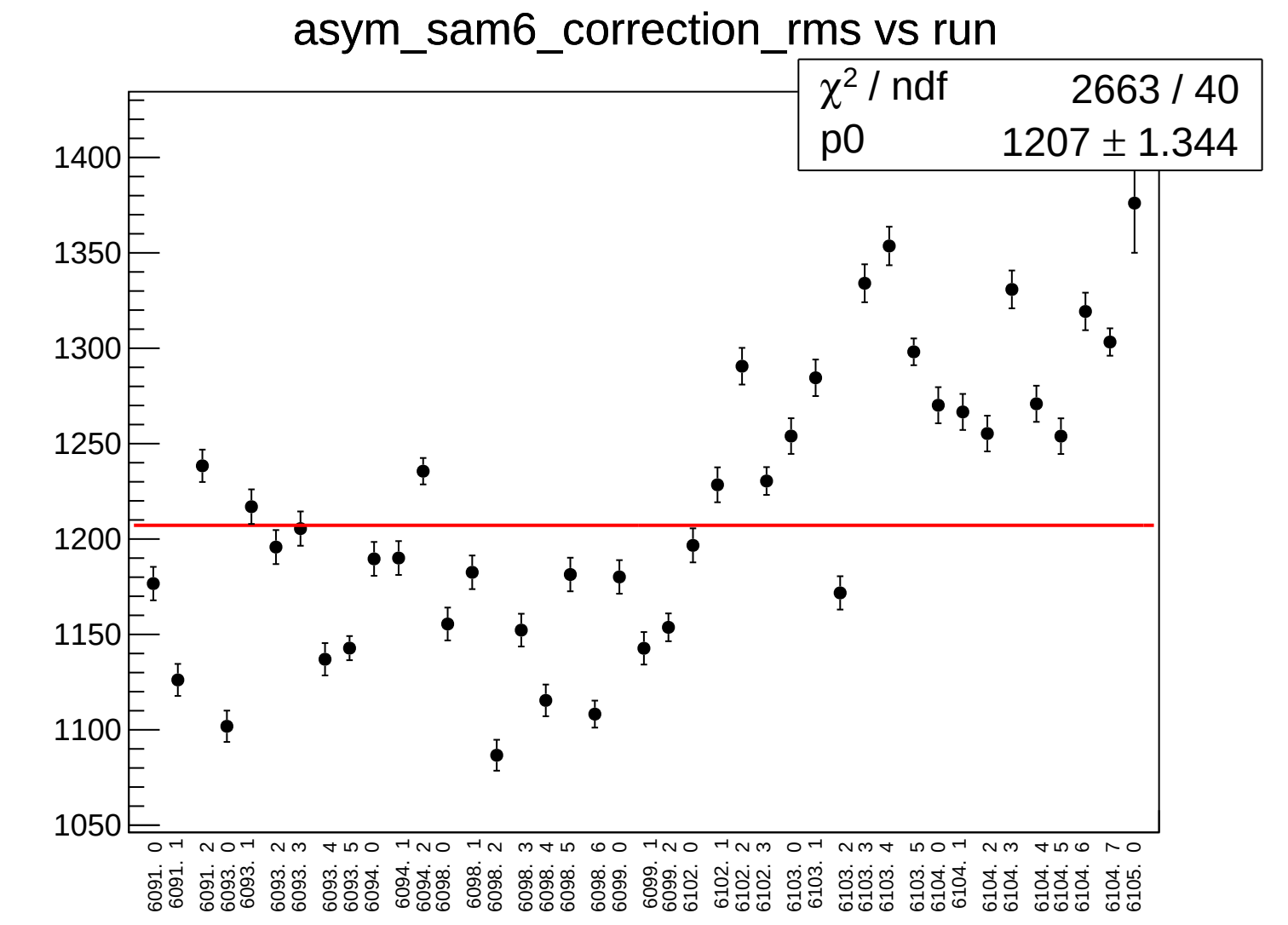

asym_sam5_rms vs run
χ² / ndf 6035 / 40
p0 1146 ± 1.278
1300
1250
1200
1150
1100
1050
1000
950
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

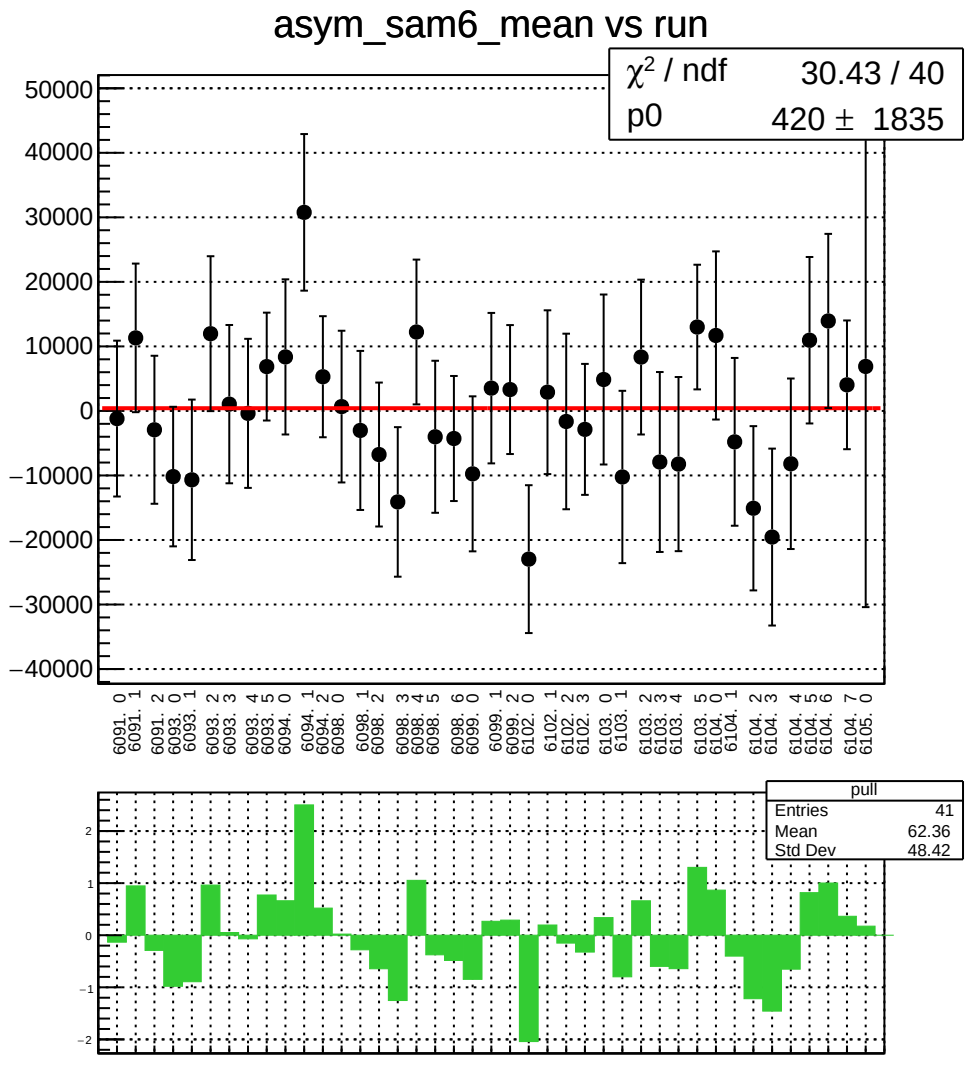

dit_asym_sam6_mean vs run
χ² / ndf 37.37 / 40
p0 −137.1 ± 216.1
4000
2000
0
−2000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −131.2
Std Dev 140.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

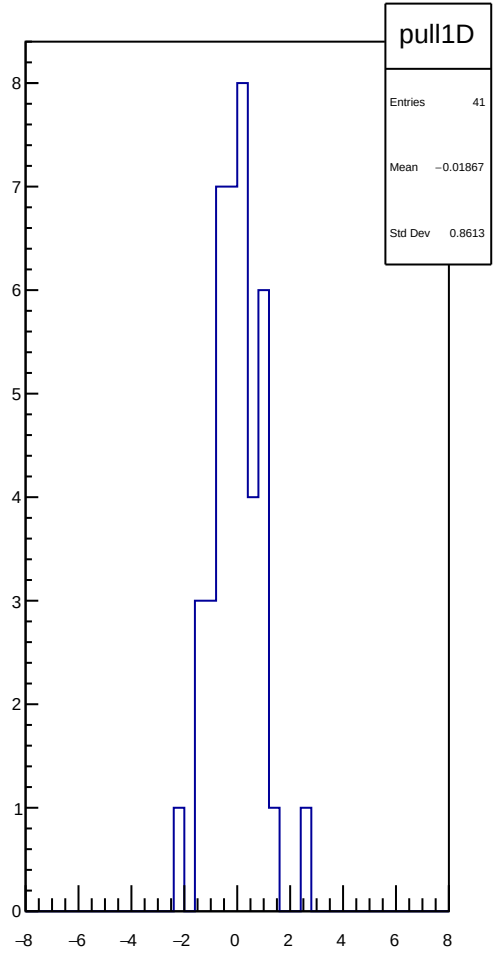

pull1D
Entries 41
Mean −0.00423
Std Dev 0.9548
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

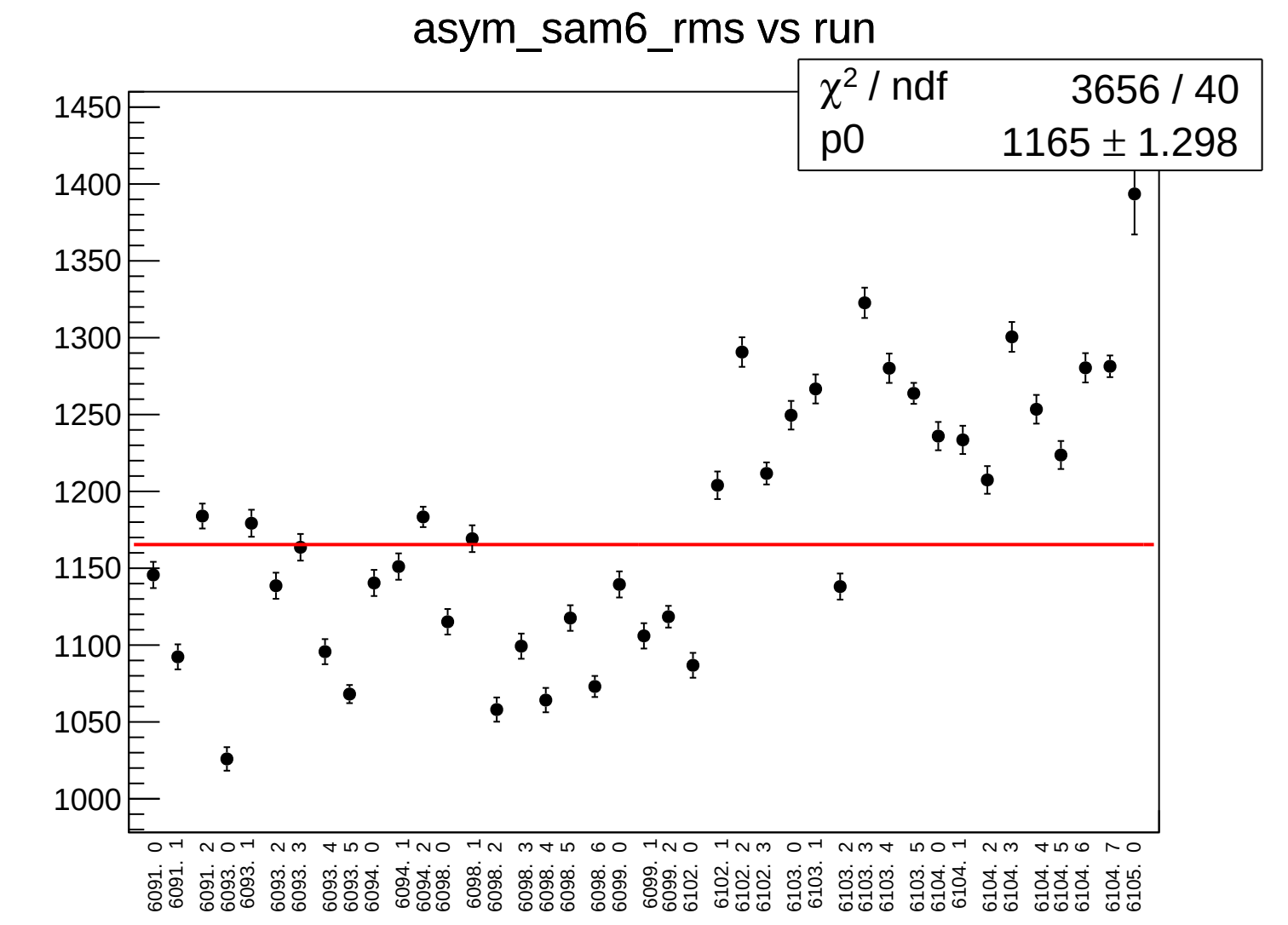

dit_asym_sam6_rms vs run
χ² / ndf 4096 / 40
p0 137.2 ± 0.1528
190
180
170
160
150
140
130
120
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

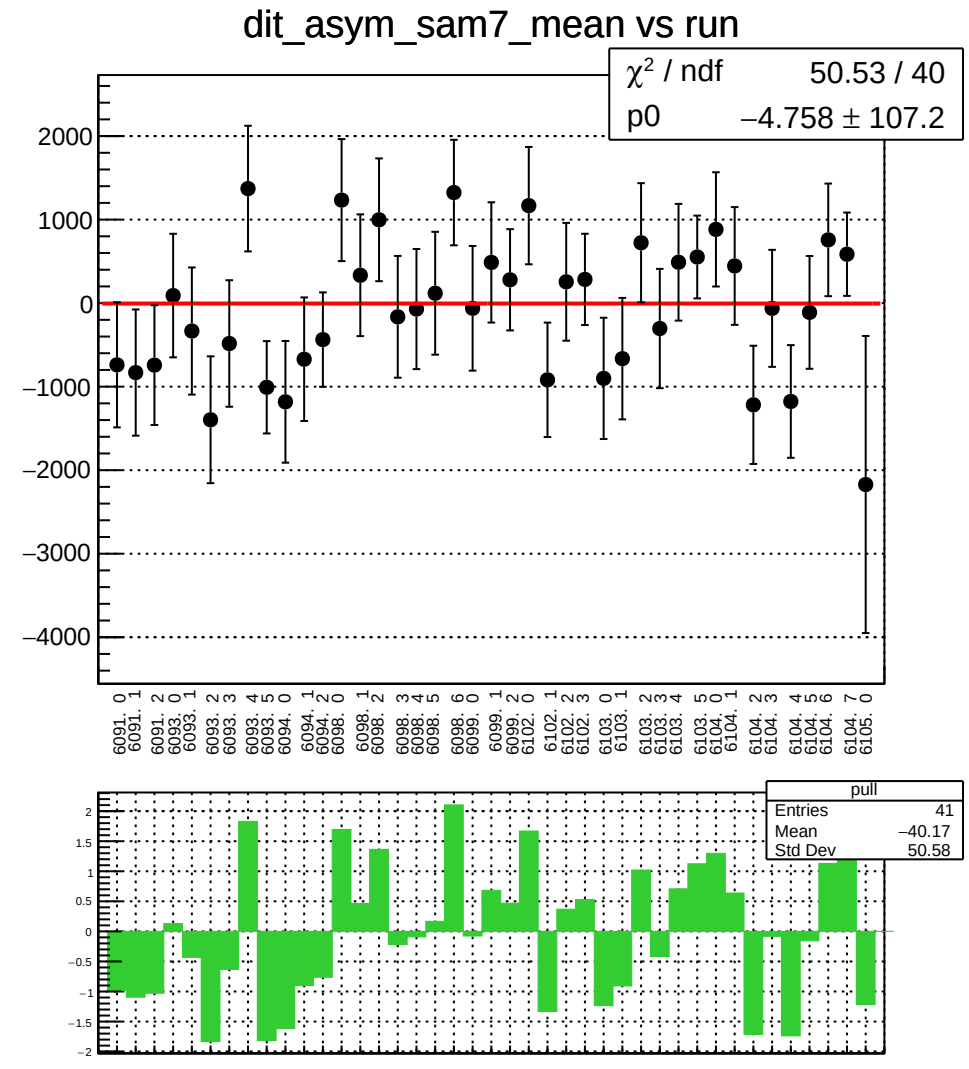

asym_sam6_correction_mean vs run
χ² / ndf 31.21 / 40
p0 −661.5 ± 1900
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 57.21
Std Dev 43.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.02216
Std Dev 0.8722
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

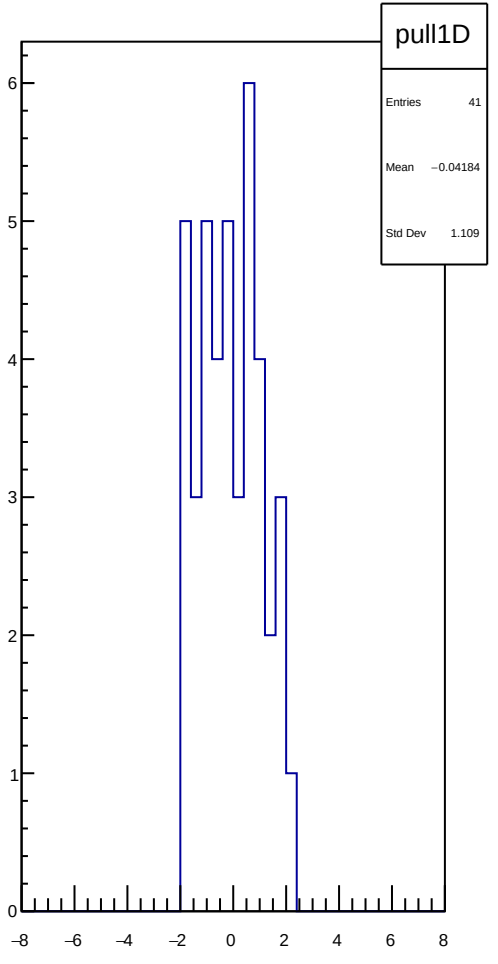

asym_sam6_correction_rms vs run
χ² / ndf 2663 / 40
p0 1207 ± 1.344
1400
1350
1300
1250
1200
1150
1100
1050
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

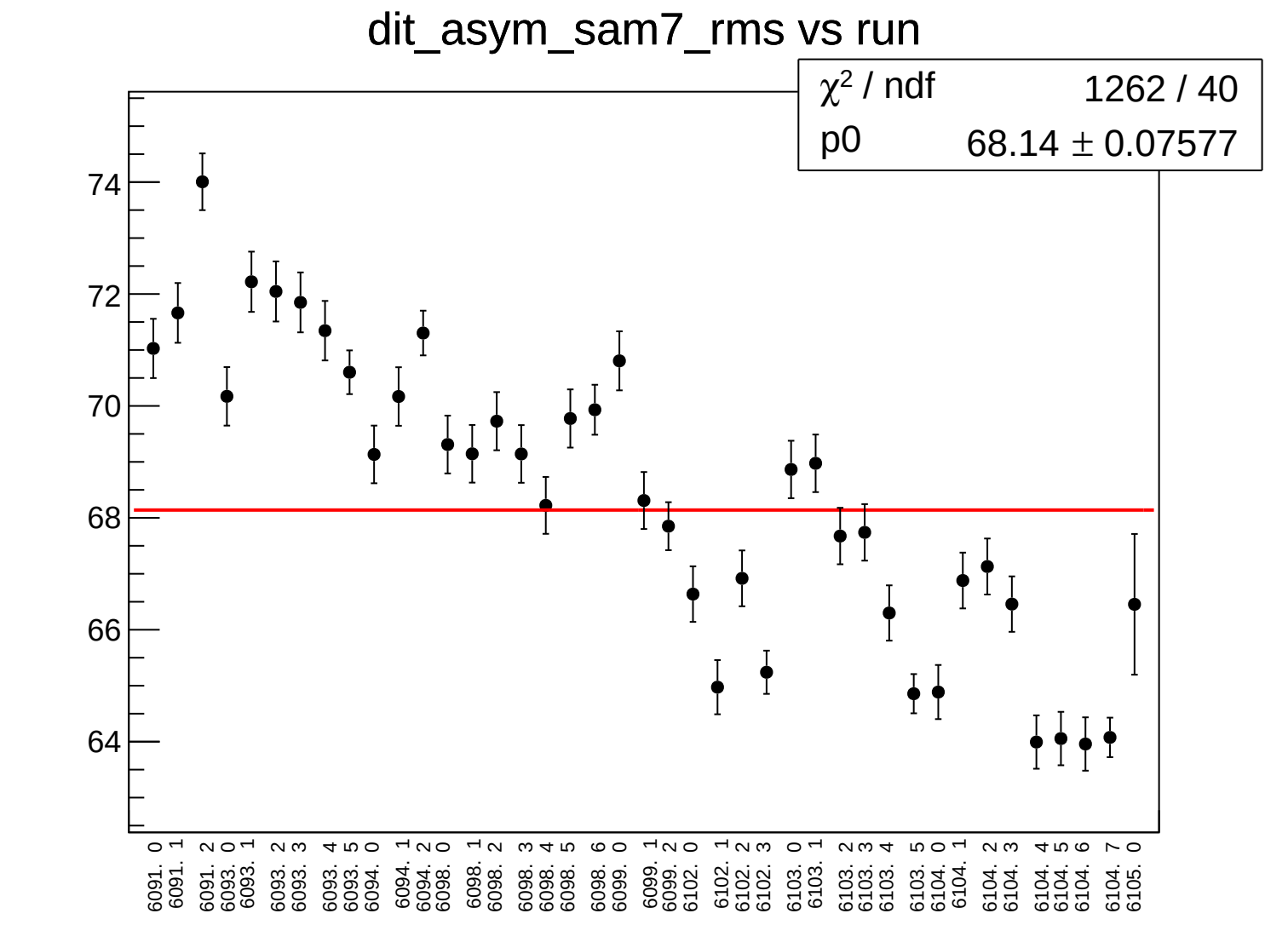

asym_sam6_mean vs run
χ² / ndf 30.43 / 40
p0 420 ± 1835
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 62.36
Std Dev 48.42
2
1
0
−1
−2

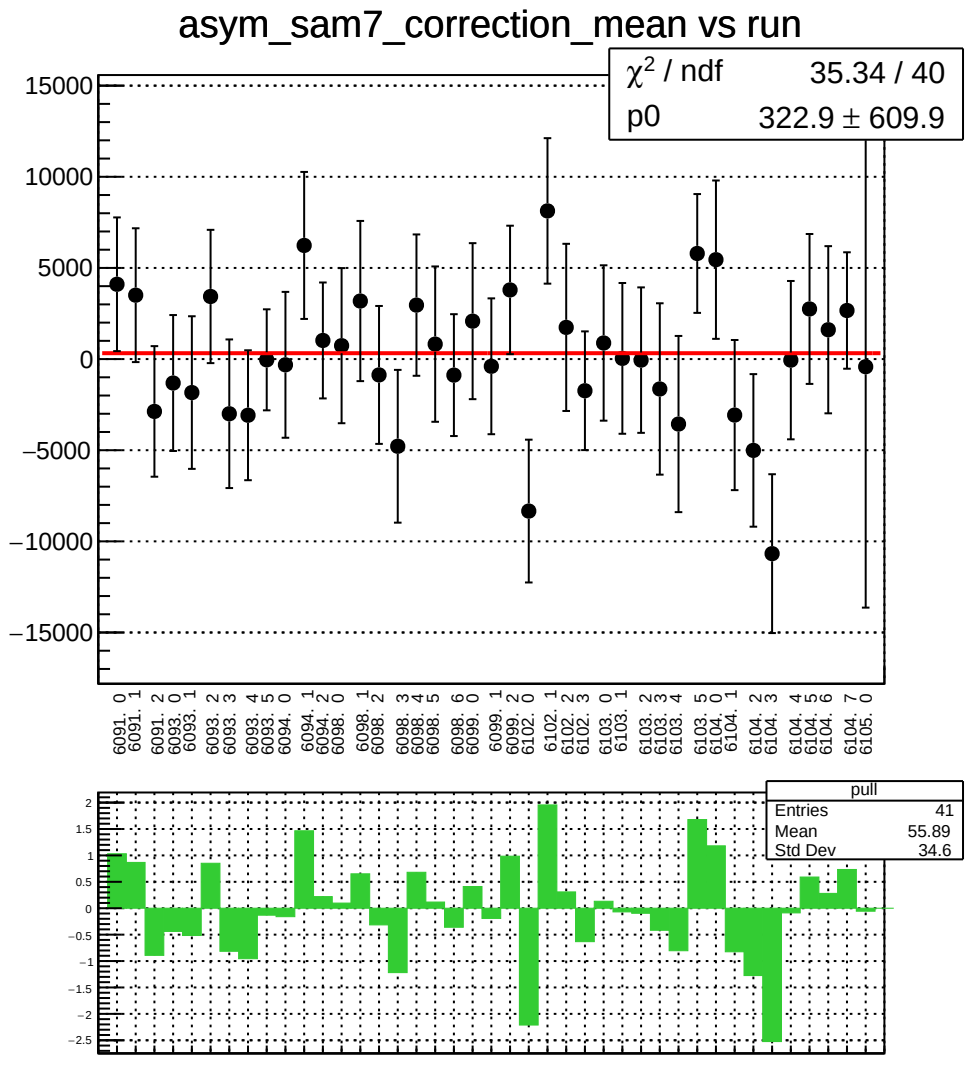

pull1D
Entries 41
Mean −0.01867
Std Dev 0.8613
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

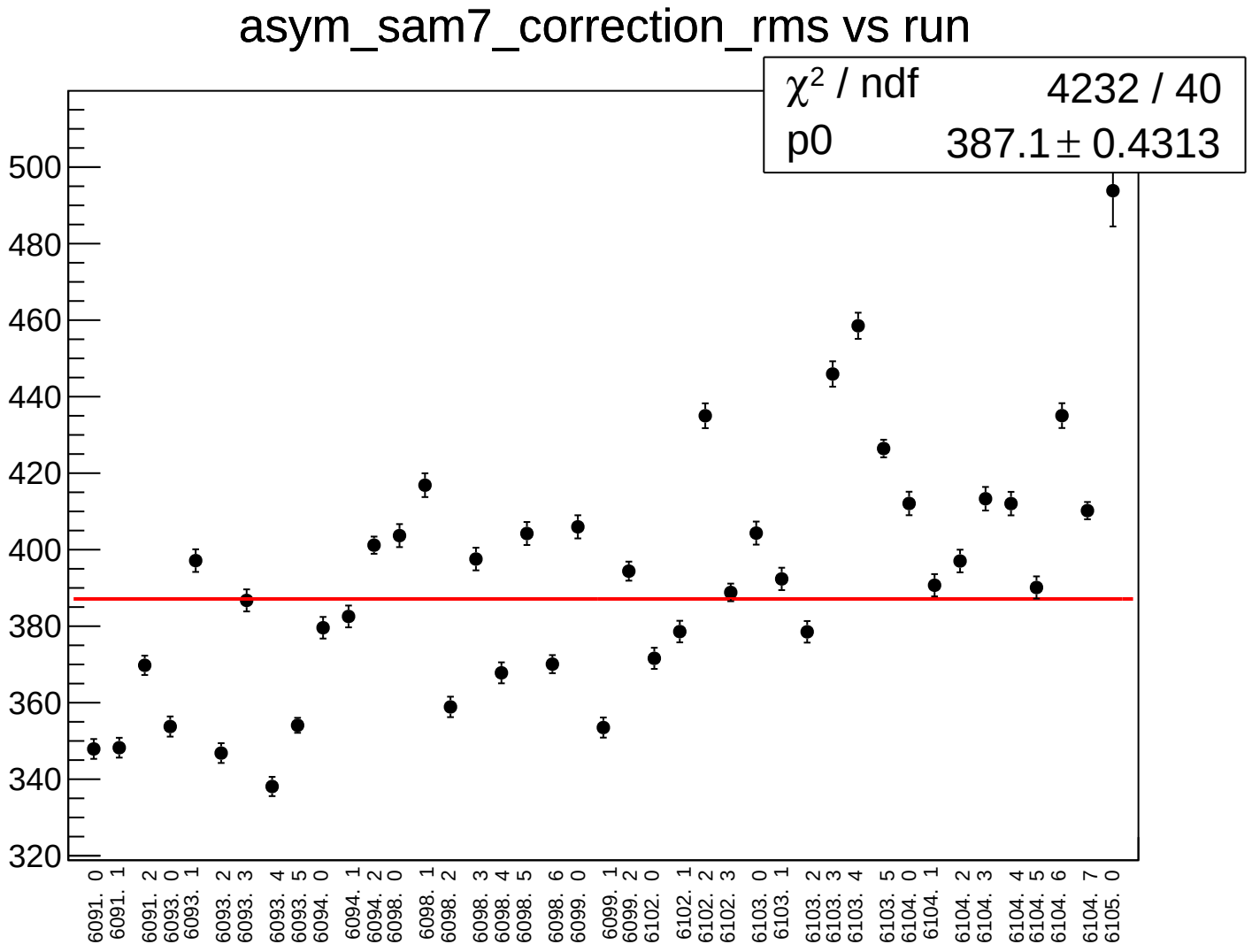

asym_sam6_rms vs run
χ² / ndf 3656 / 40
p0 1165 ± 1.298
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

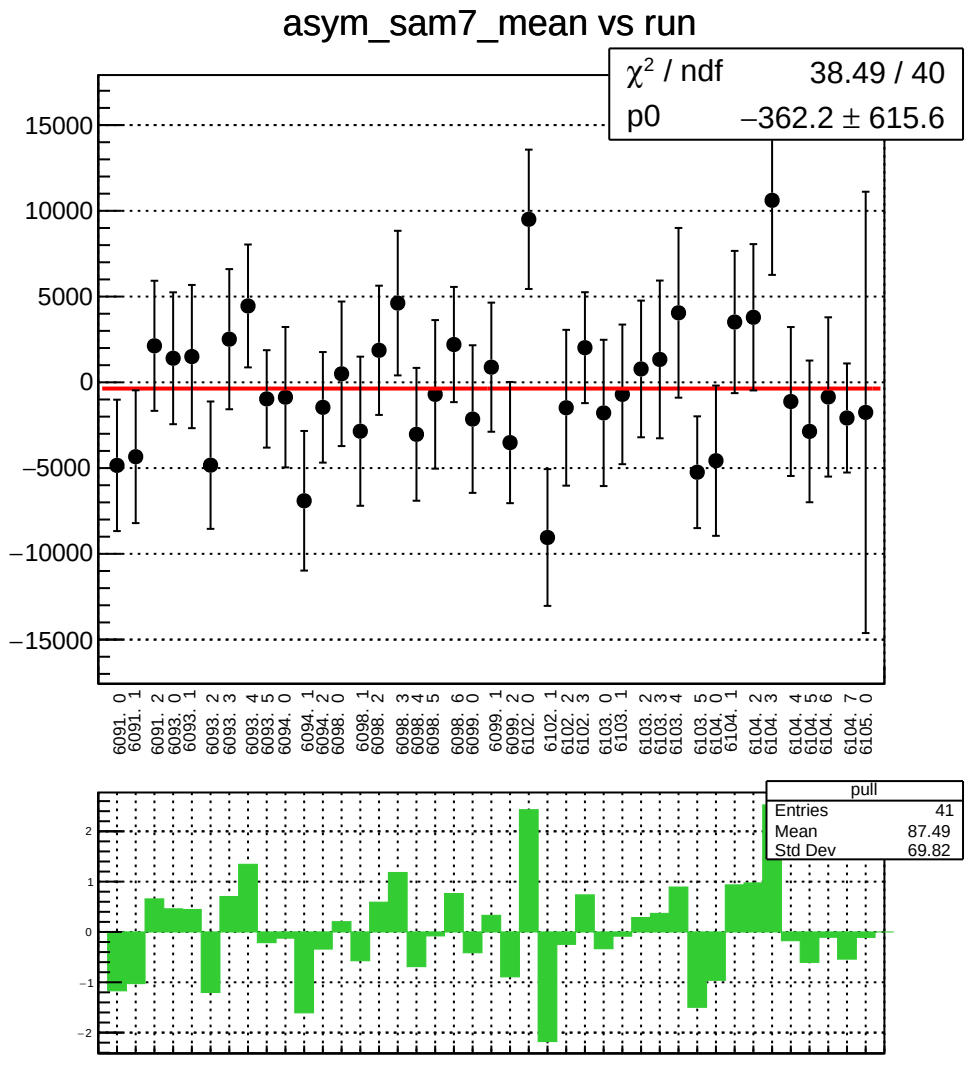

dit_asym_sam7_mean vs run
χ² / ndf 50.53 / 40
p0 −4.758 ± 107.2
2000
1000
0
−1000
−2000
−3000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −40.17
Std Dev 50.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

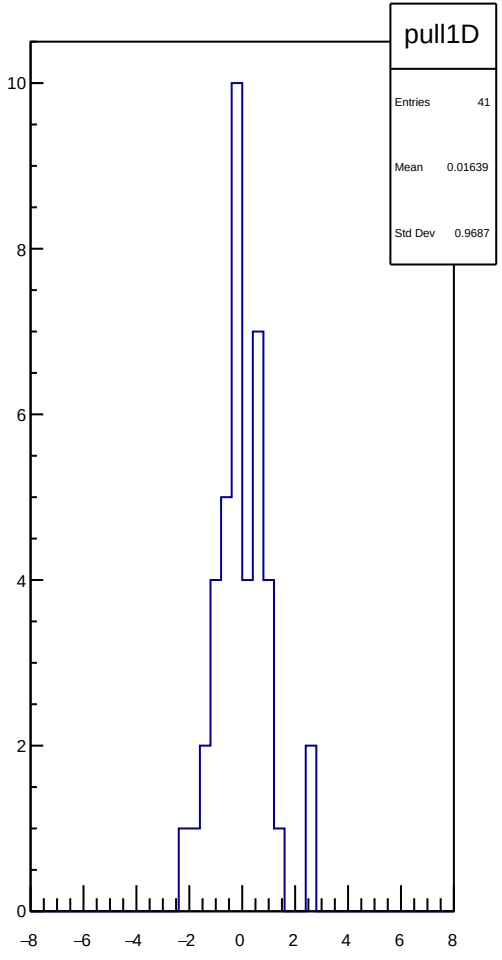

pull1D
Entries 41
Mean −0.04184
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

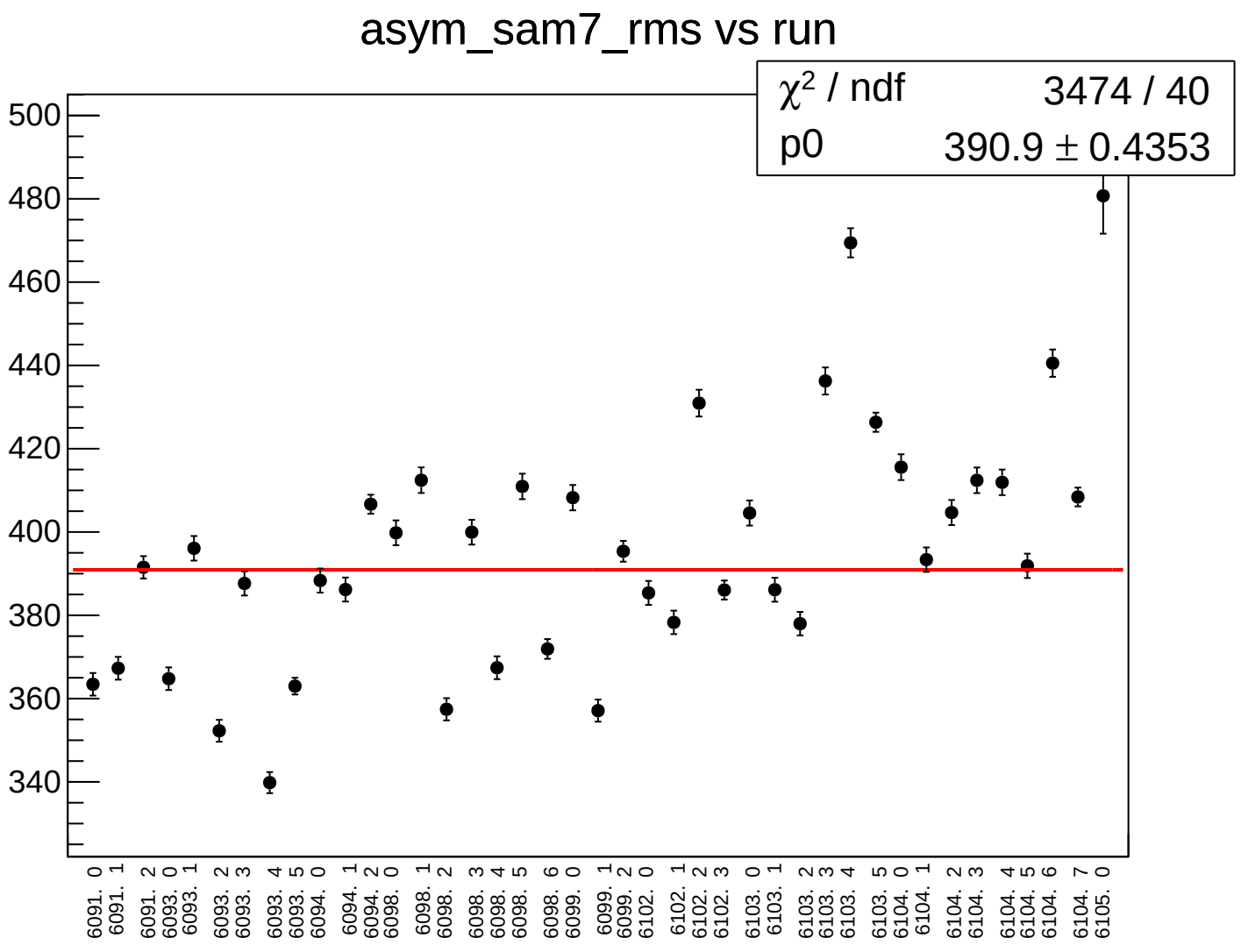

dit_asym_sam7_rms vs run
χ² / ndf 1262 / 40
p0 68.14 ± 0.07577
74
72
70
68
66
64
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

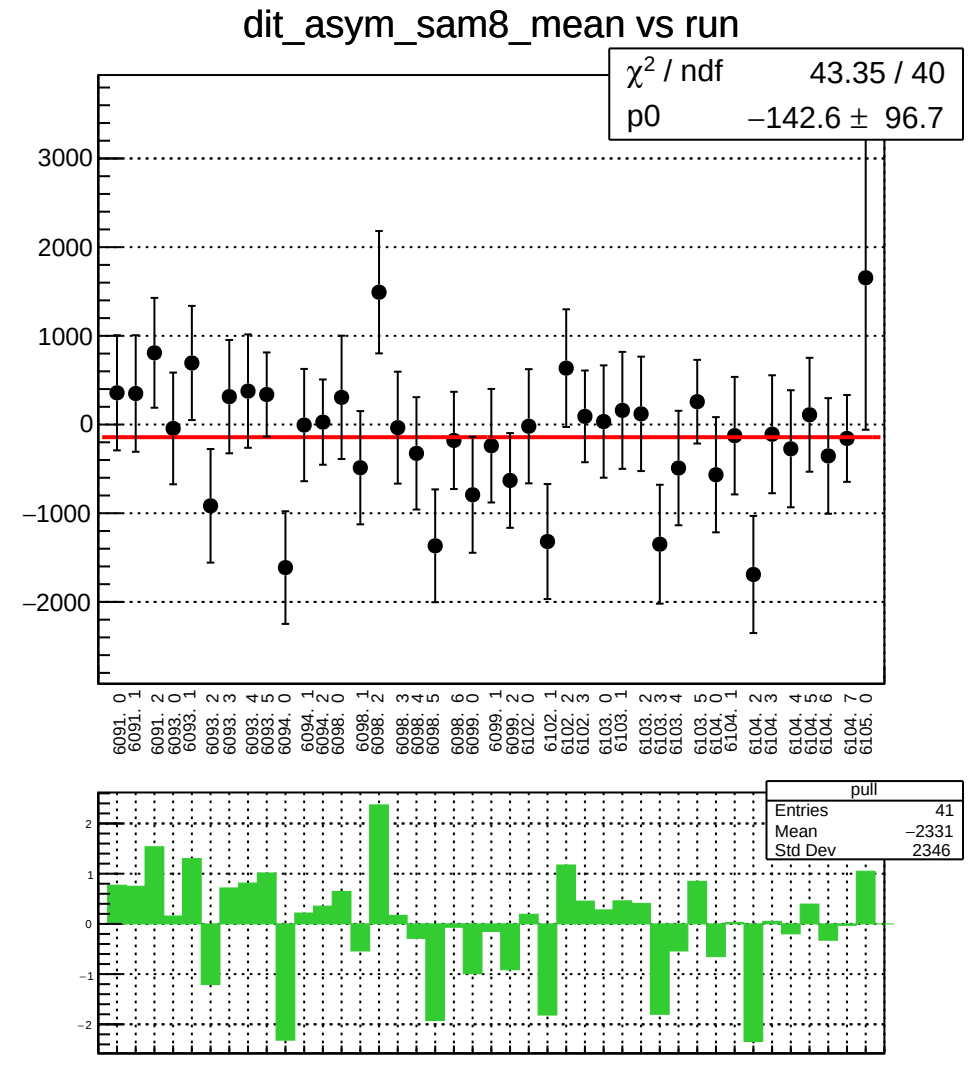

asym_sam7_correction_mean vs run
χ² / ndf 35.34 / 40
p0 322.9 ± 609.9
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 55.89
Std Dev 34.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.01842
Std Dev 0.9282
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

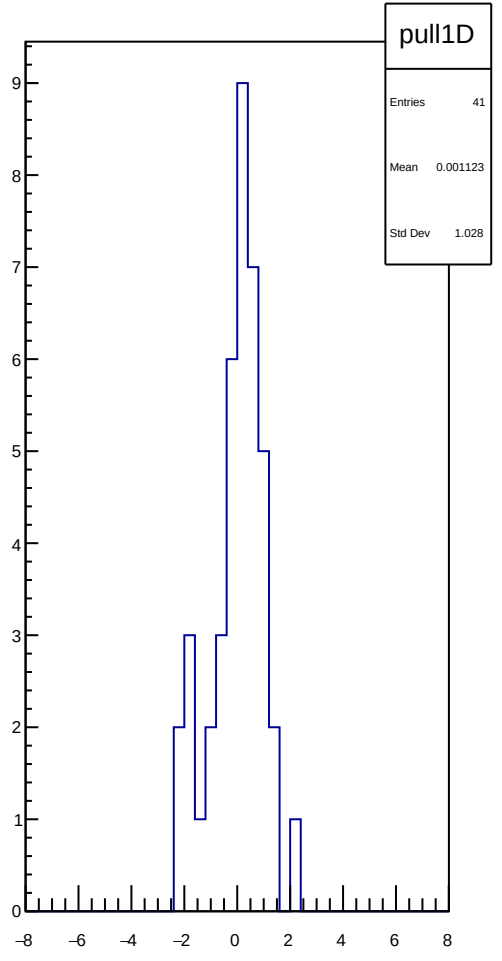

asym_sam7_correction_rms vs run
χ² / ndf 4232 / 40
p0 387.1 ± 0.4313
500
480
460
440
420
400
380
360
340
320
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

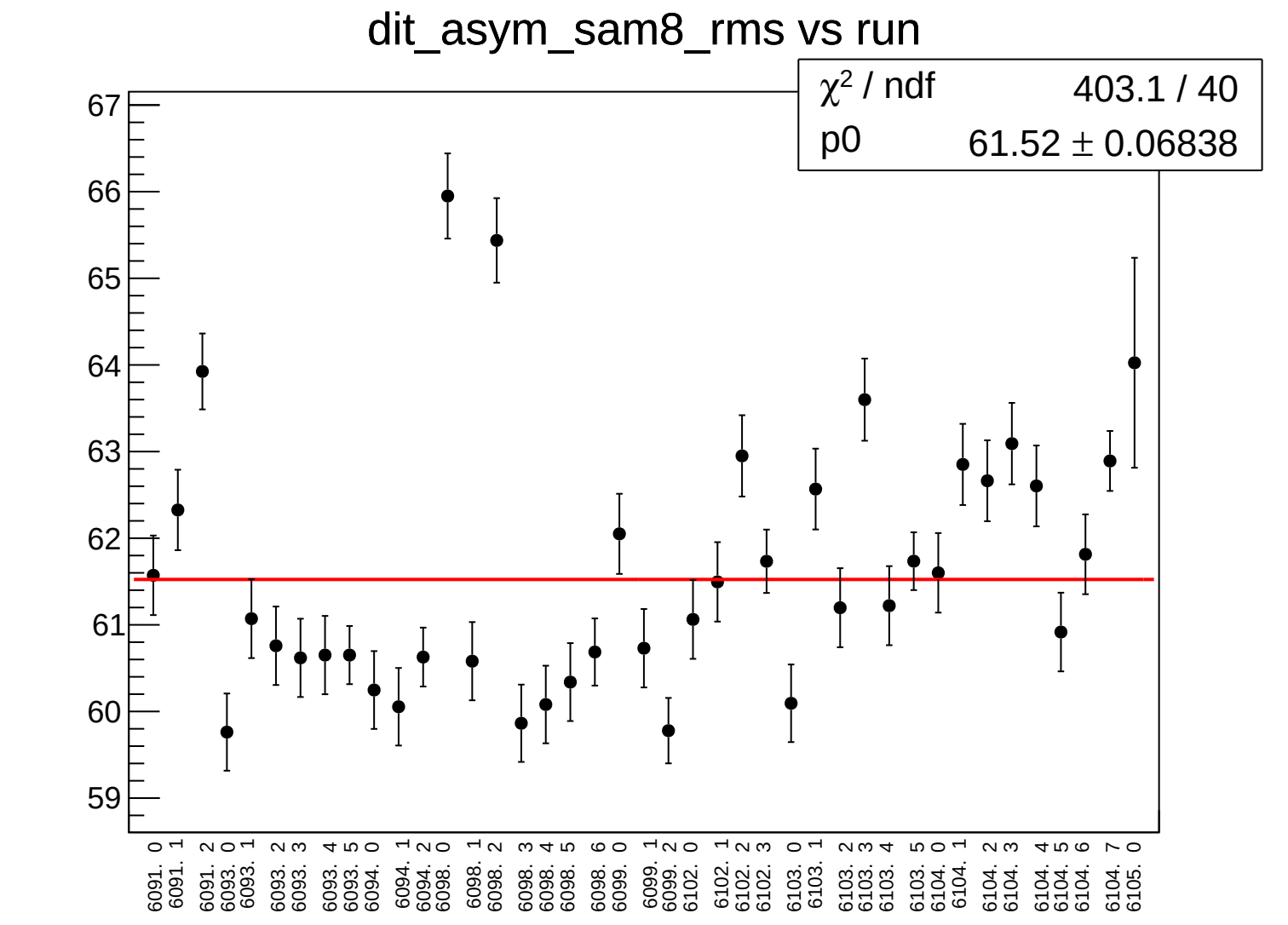

asym_sam7_mean vs run
χ² / ndf 38.49 / 40
p0 −362.2 ± 615.6
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 87.49
Std Dev 69.82
2
1
0
−1
−2

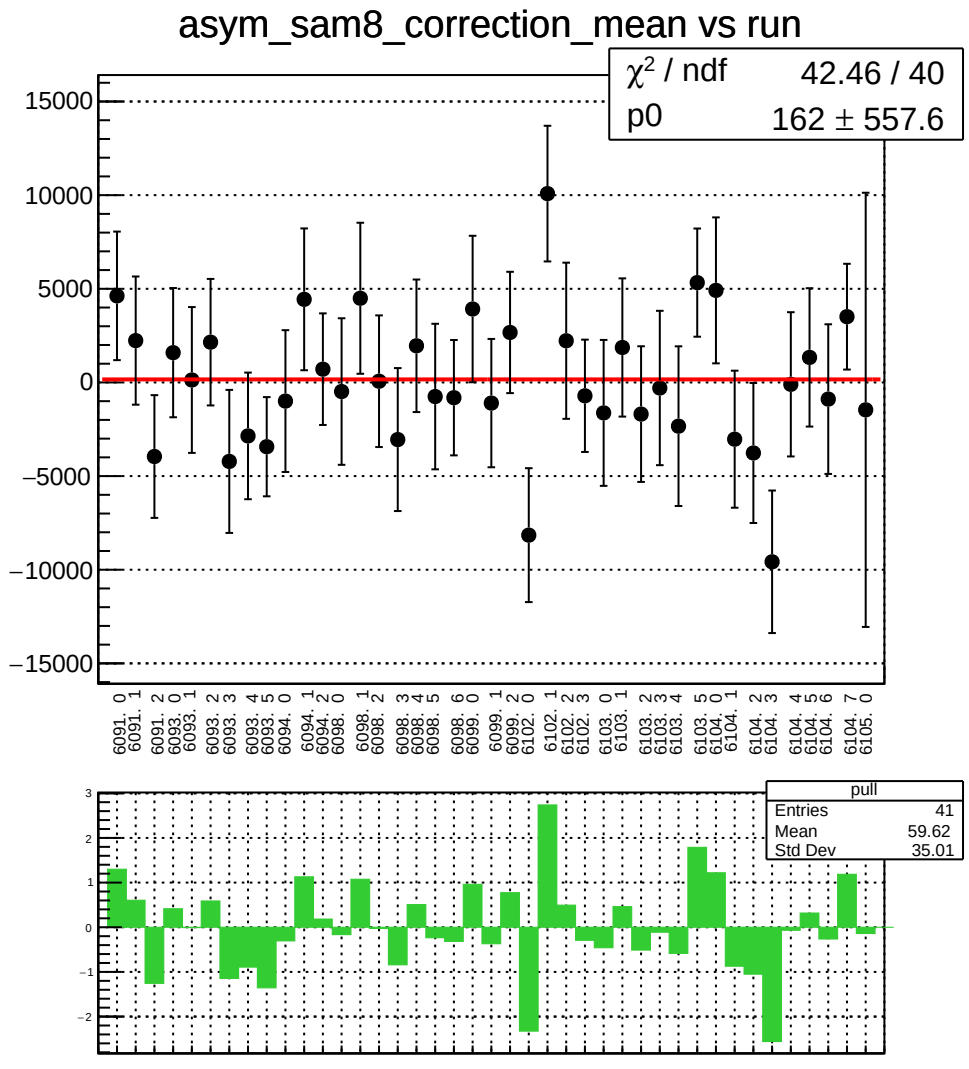

pull1D
Entries 41
Mean 0.01639
Std Dev 0.9687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

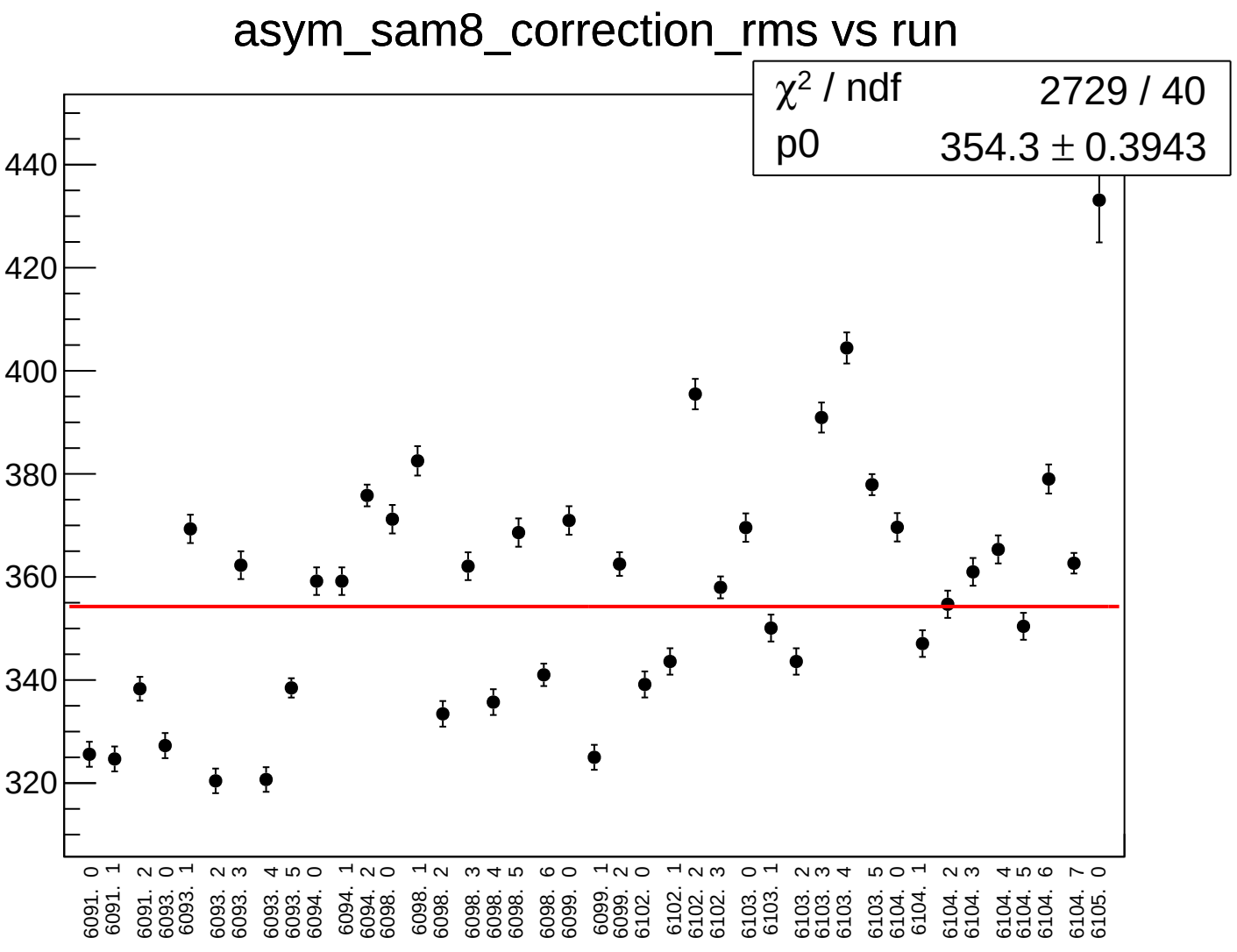

asym_sam7_rms vs run
χ² / ndf 3474 / 40
p0 390.9 ± 0.4353
500
480
460
440
420
400
380
360
340
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

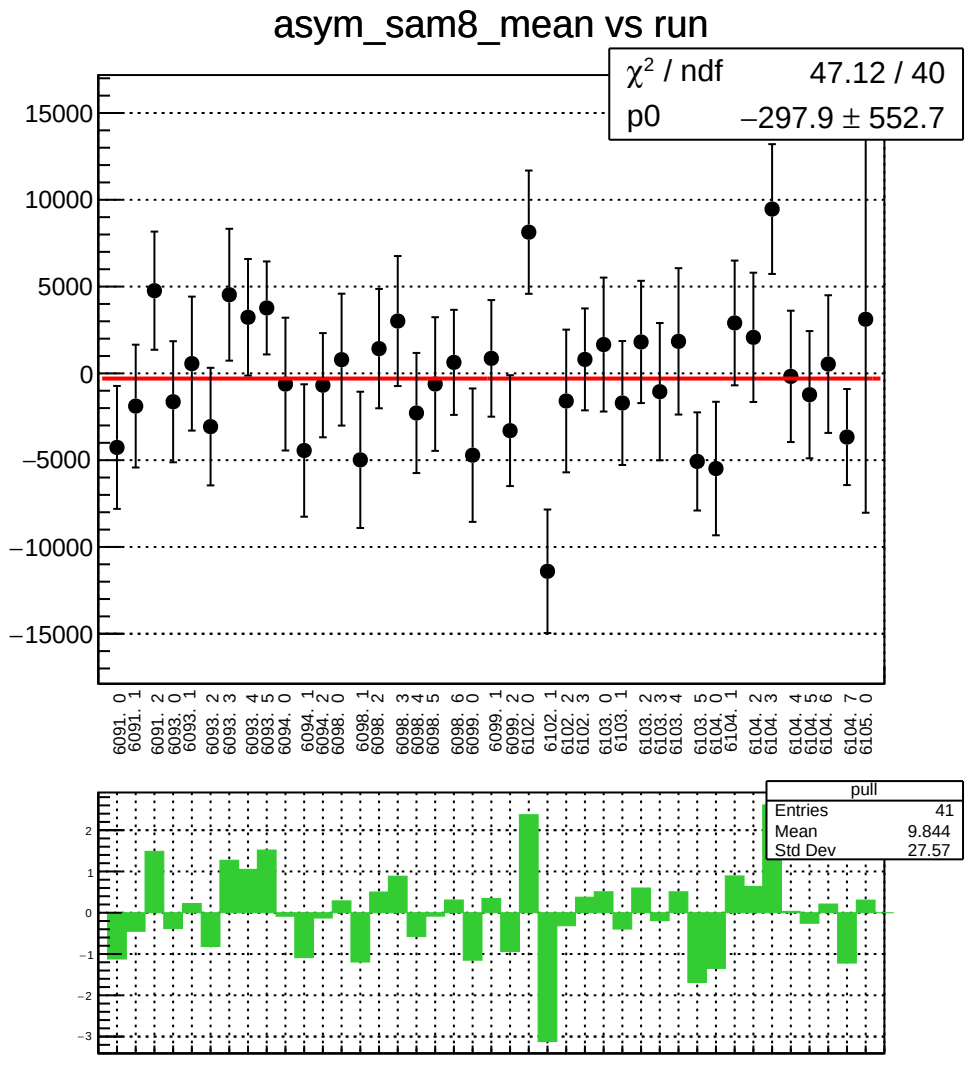

dit_asym_sam8_mean vs run
χ² / ndf 43.35 / 40
p0 −142.6 ± 96.7
3000
2000
1000
0
−1000
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −2331
Std Dev 2346
2
1
0
−1
−2

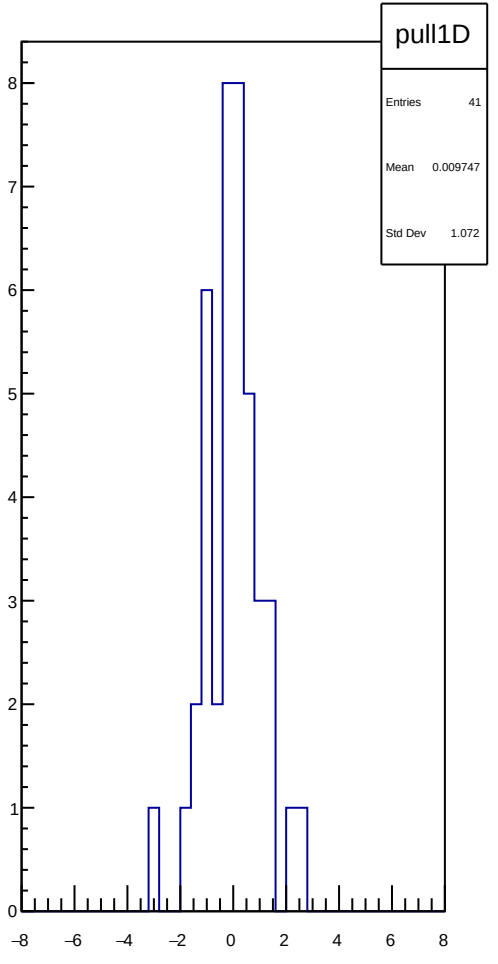

pull1D
Entries 41
Mean 0.001123
Std Dev 1.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

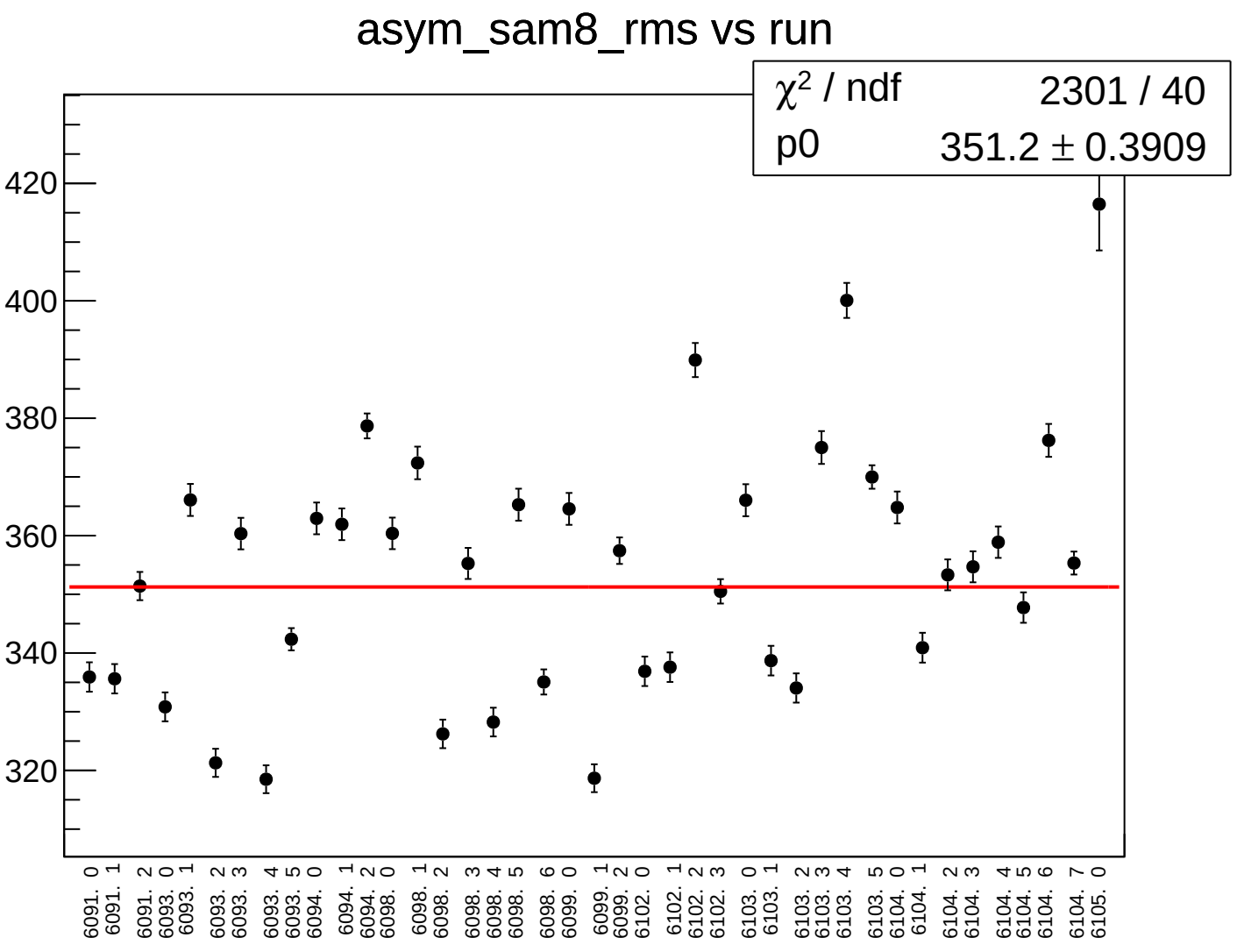

dit_asym_sam8_rms vs run
χ² / ndf 403.1 / 40
p0 61.52 ± 0.06838
67
66
65
64
63
62
61
60
59
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

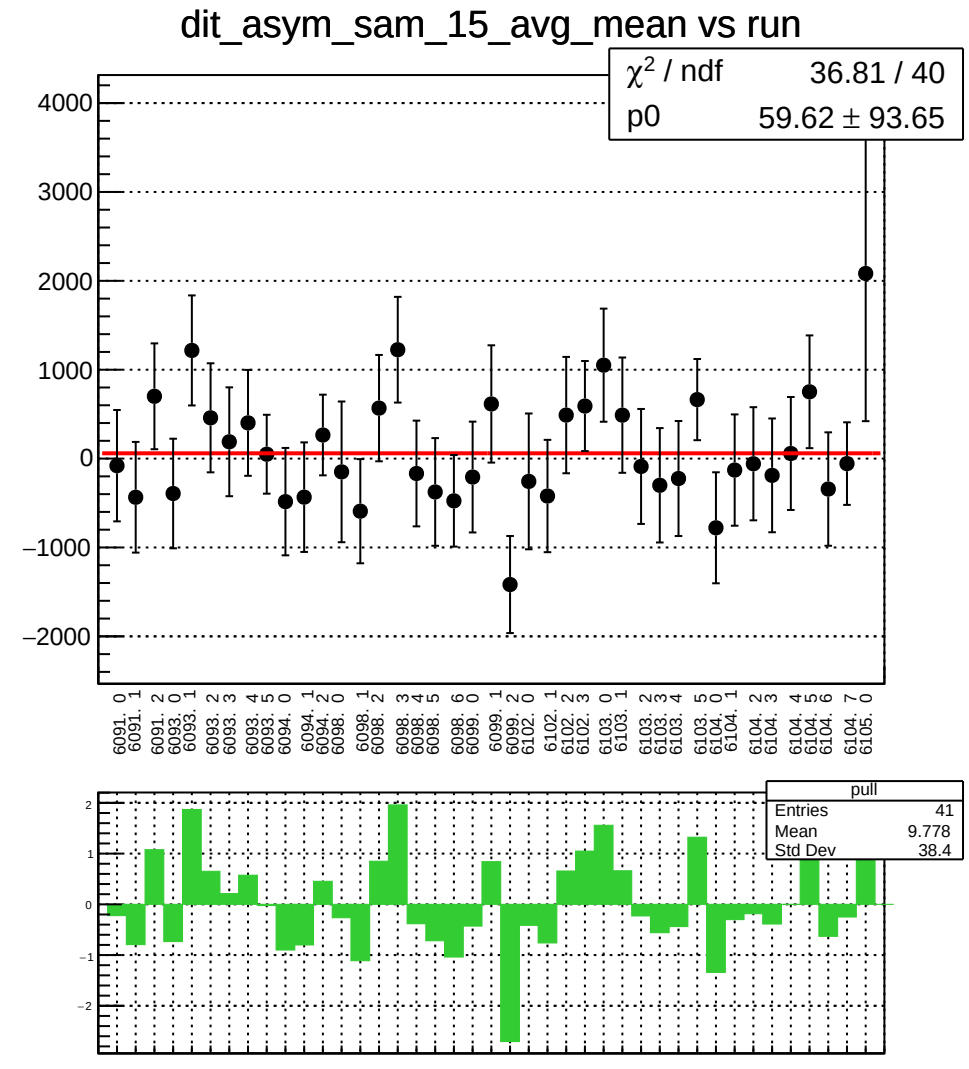

asym_sam8_correction_mean vs run
χ² / ndf 42.46 / 40
p0 162 ± 557.6
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 59.62
Std Dev 35.01
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01008
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

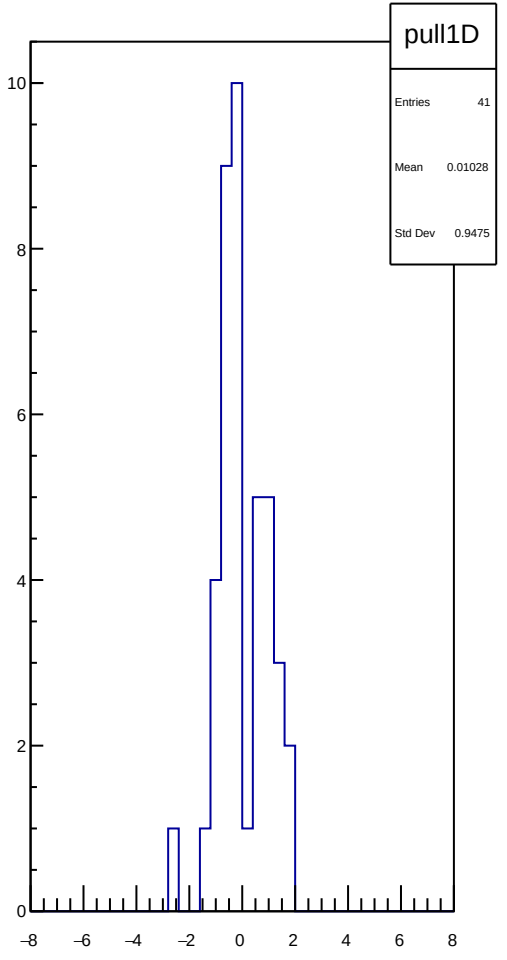

asym_sam8_correction_rms vs run
χ² / ndf 2729 / 40
p0 354.3 ± 0.3943
440
420
400
380
360
340
320
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

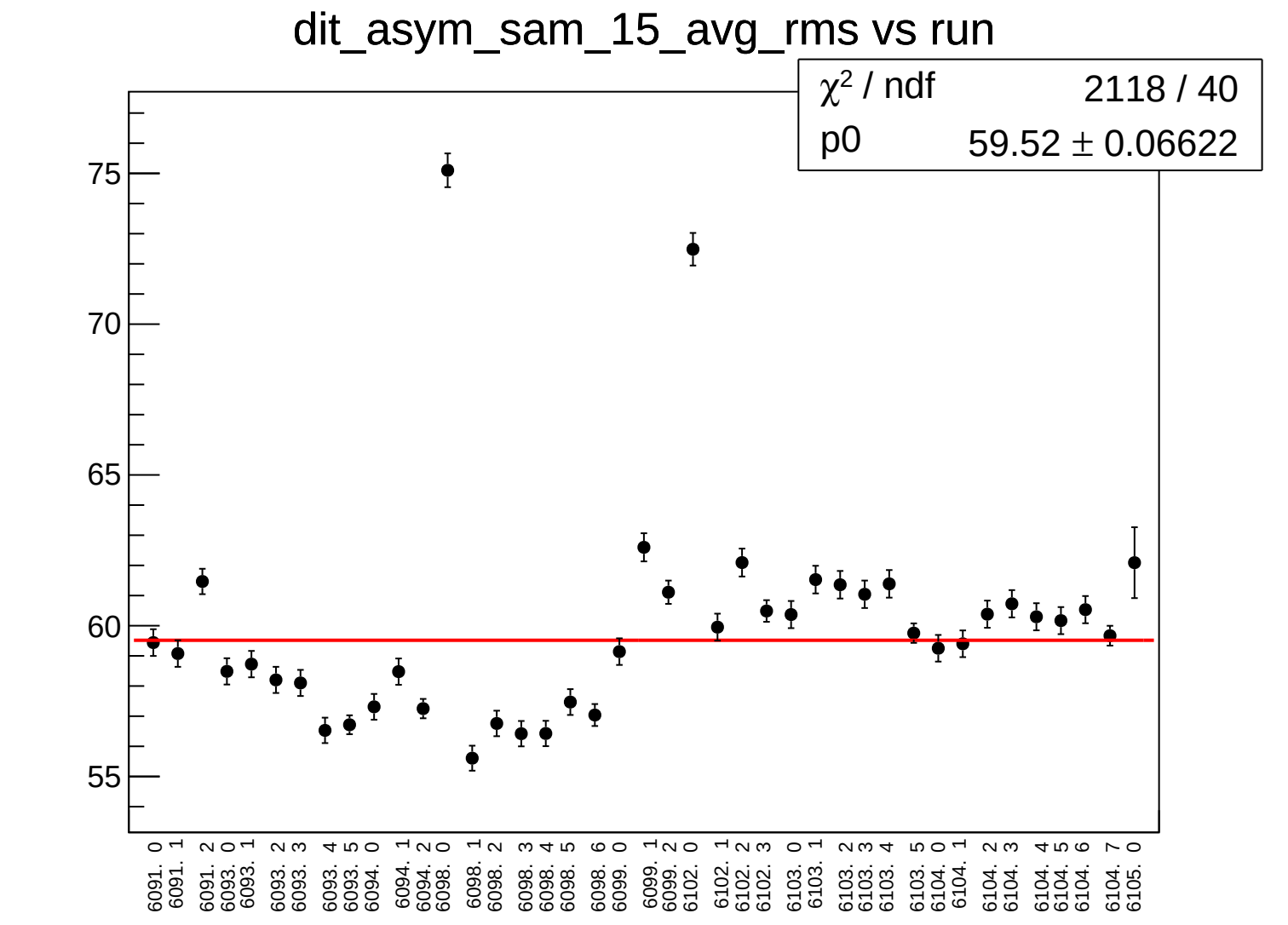

asym_sam8_mean vs run
χ² / ndf 47.12 / 40
p0 −297.9 ± 552.7
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 9.844
Std Dev 27.57
2
1
0
−1
−2
−3

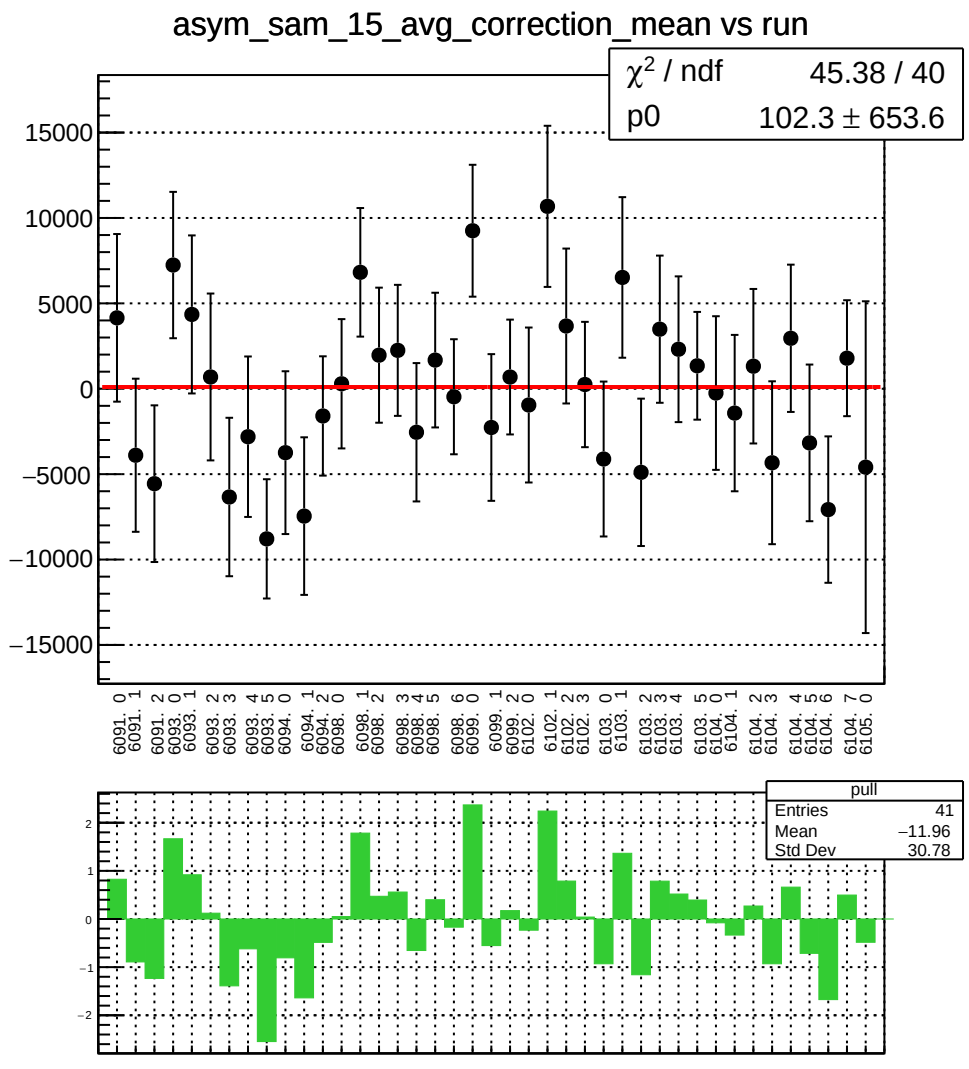

pull1D
Entries 41
Mean 0.009747
Std Dev 1.072
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

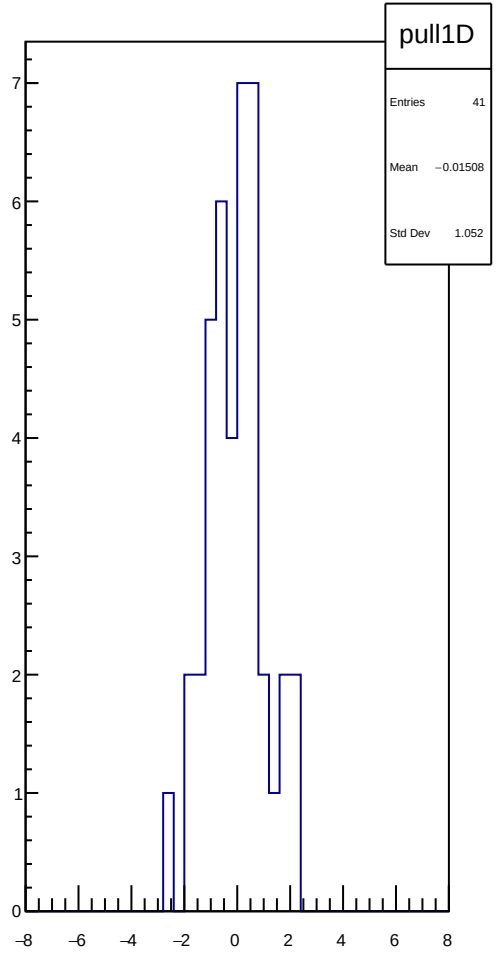

asym_sam8_rms vs run
χ² / ndf 2301 / 40
p0 351.2 ± 0.3909
420
400
380
360
340
320
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

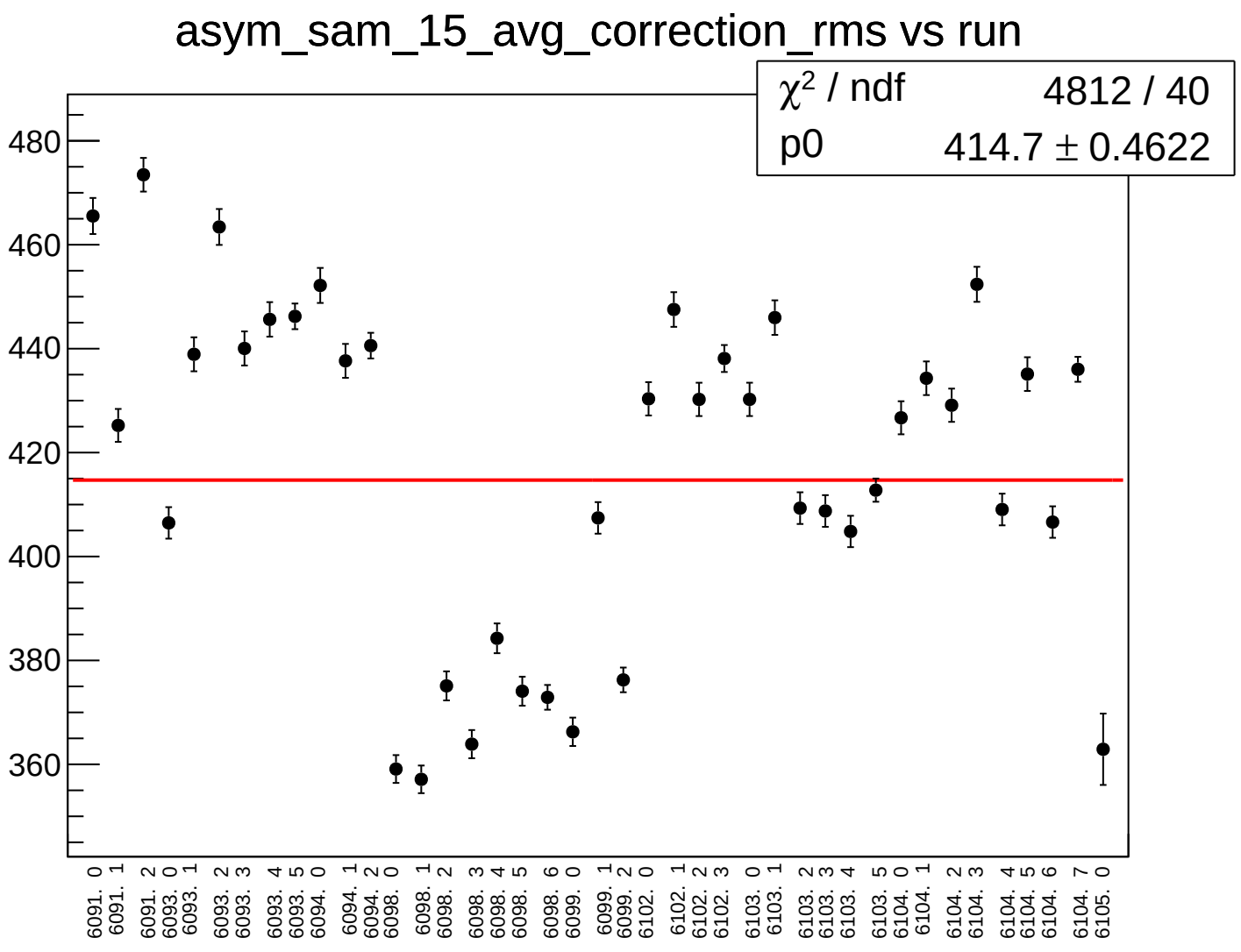

dit_asym_sam_15_avg_mean vs run
χ² / ndf 36.81 / 40
p0 59.62 ± 93.65
4000
3000
2000
1000
0
−1000
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 9.778
Std Dev 38.4
2
1
0
−1
−2

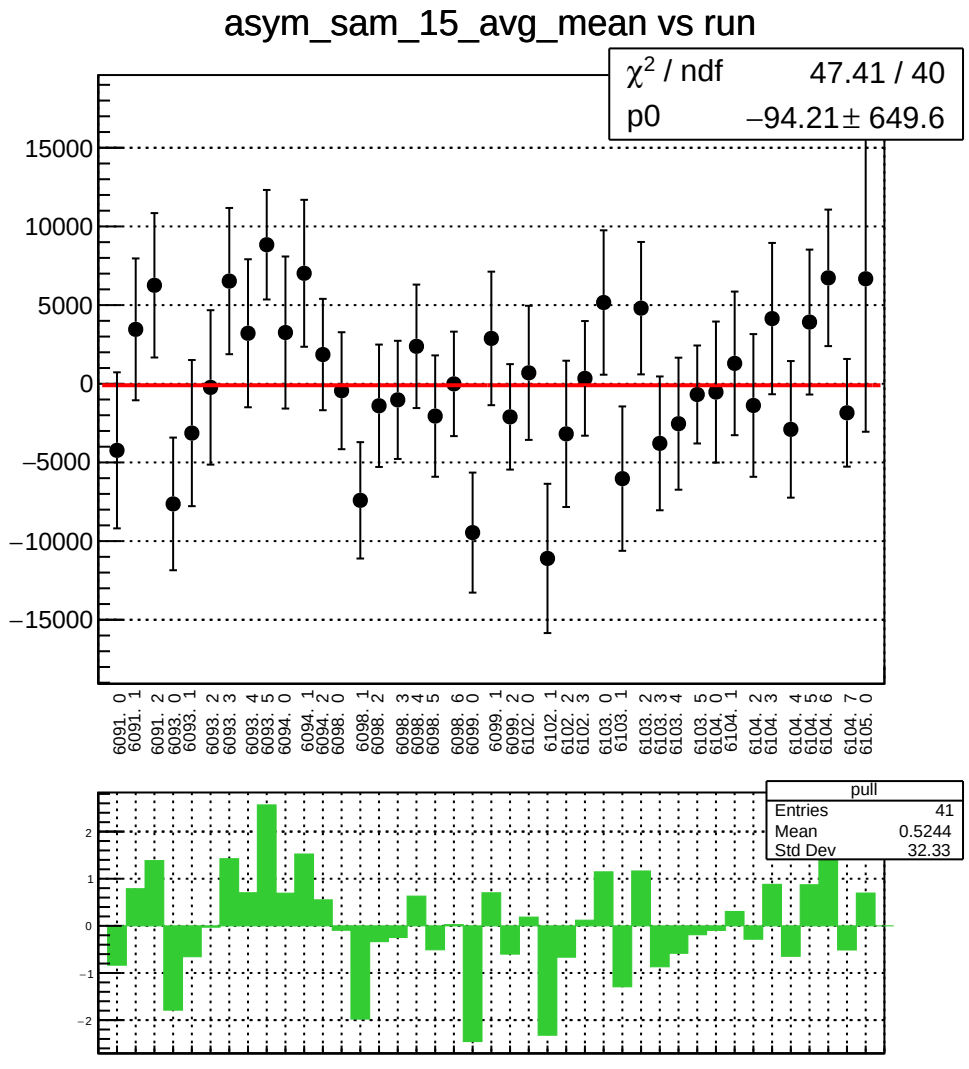

pull1D
Entries 41
Mean 0.01028
Std Dev 0.9475
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

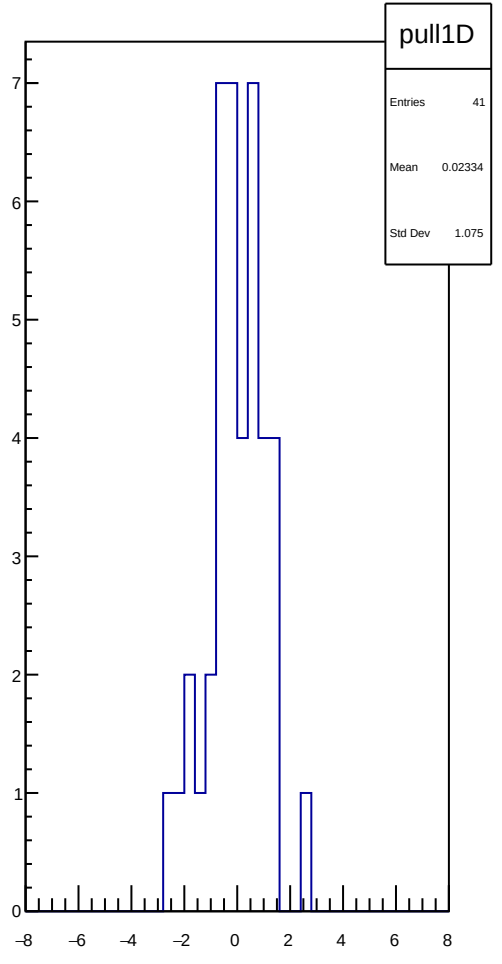

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2118 / 40
p0 59.52 ± 0.06622
75
70
65
60
55
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

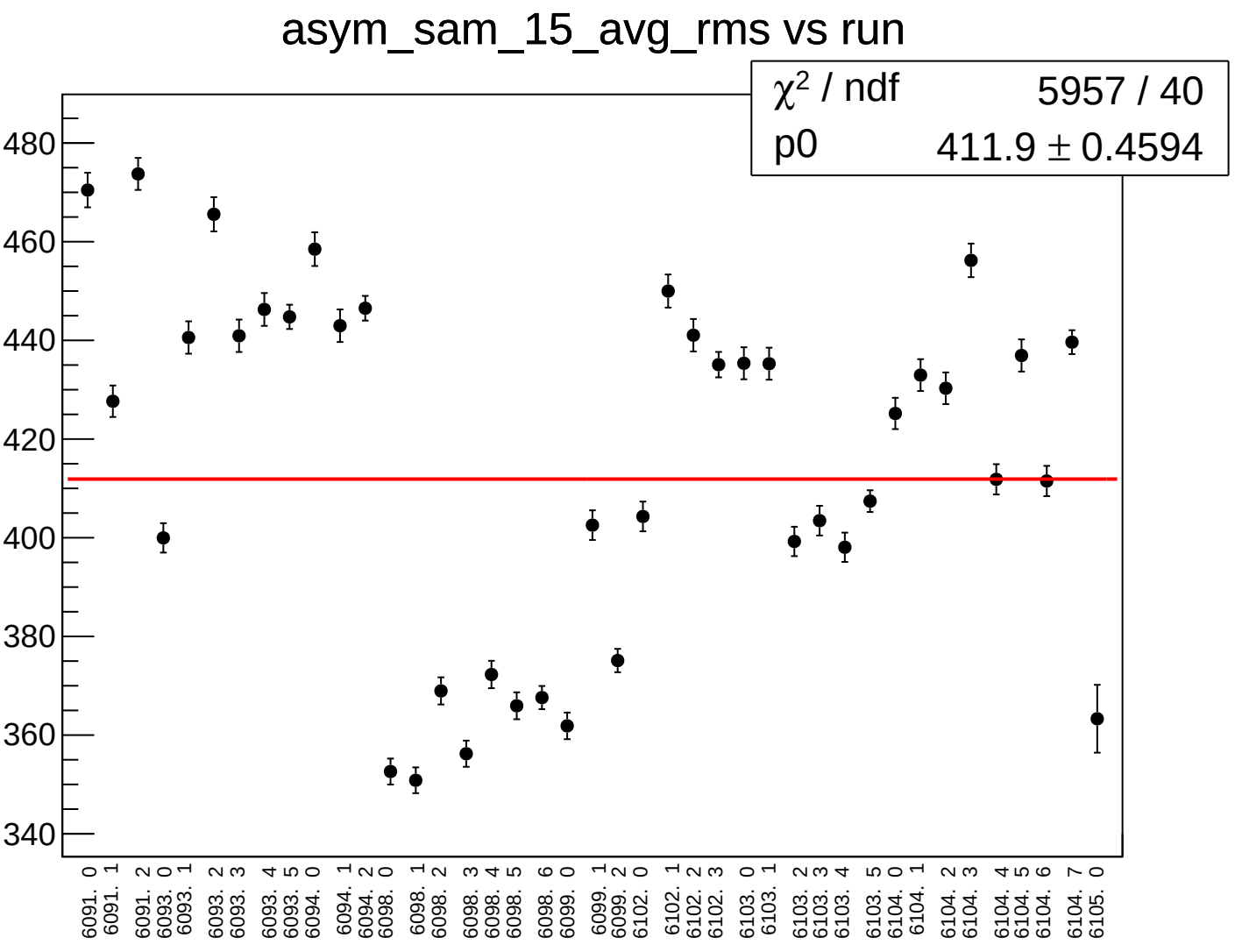

asym_sam_15_avg_correction_mean vs run
χ² / ndf 45.38 / 40
p0 102.3 ± 653.6
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −11.96
Std Dev 30.78
2
1
0
−1
−2

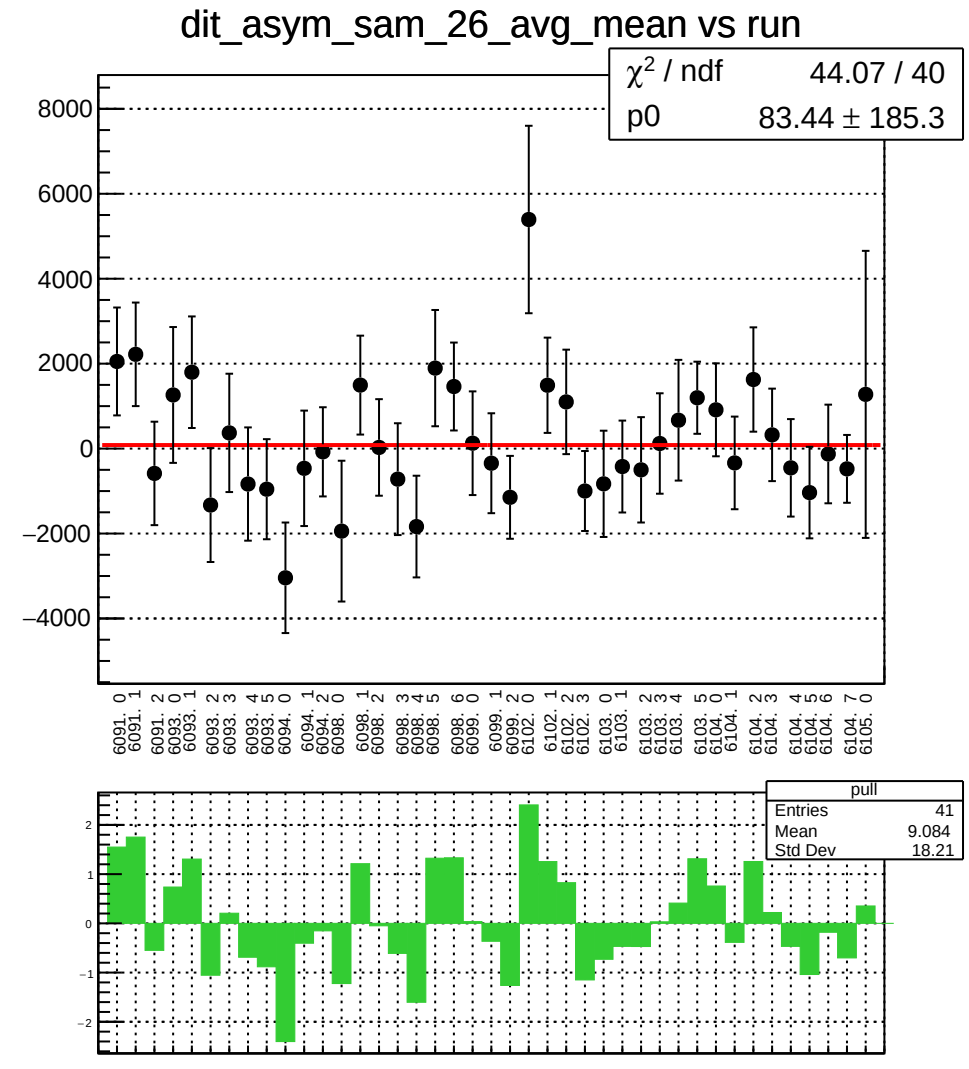

pull1D
Entries 41
Mean −0.01508
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

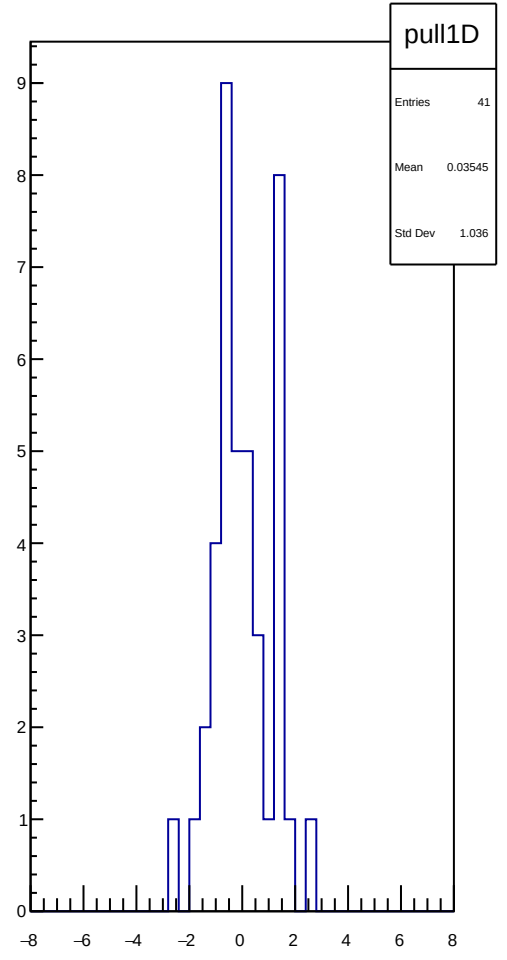

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4812 / 40
p0 414.7 ± 0.4622
480
460
440
420
400
380
360
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

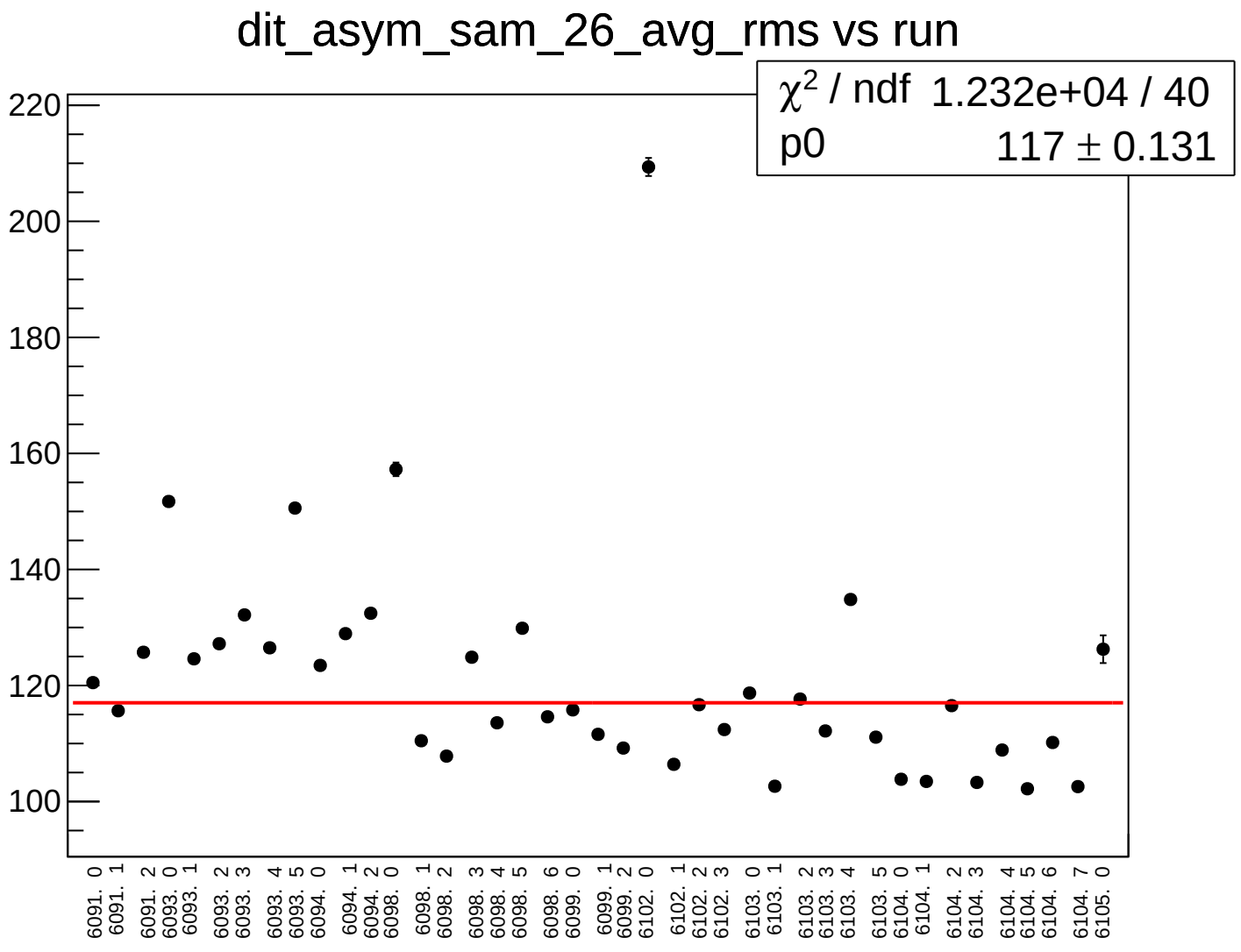

asym_sam_15_avg_mean vs run
χ² / ndf 47.41 / 40
p0 −94.21 ± 649.6
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 0.5244
Std Dev 32.33
2
1
0
−1
−2

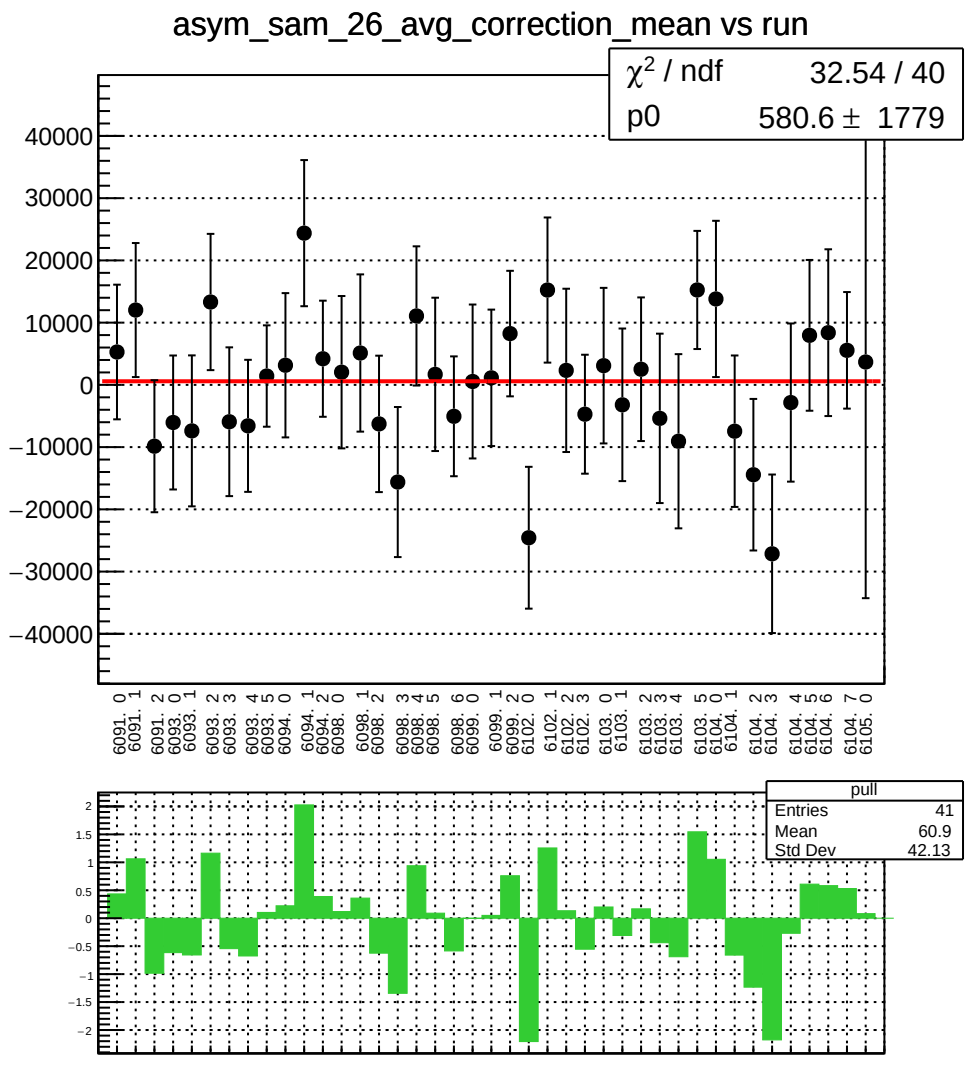

pull1D
Entries 41
Mean 0.02334
Std Dev 1.075
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

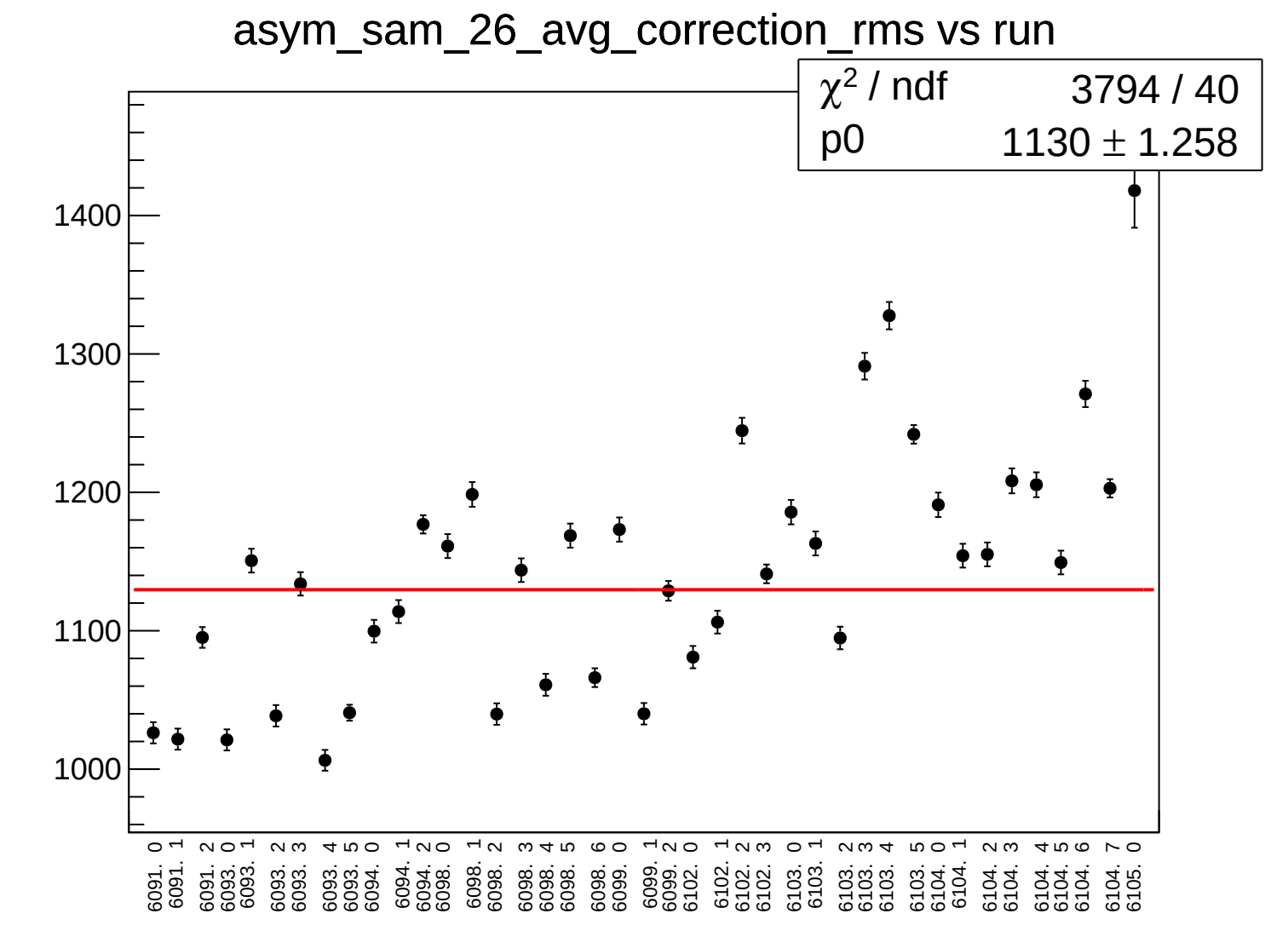

asym_sam_15_avg_rms vs run
χ² / ndf 5957 / 40
p0 411.9 ± 0.4594
480
460
440
420
400
380
360
340
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

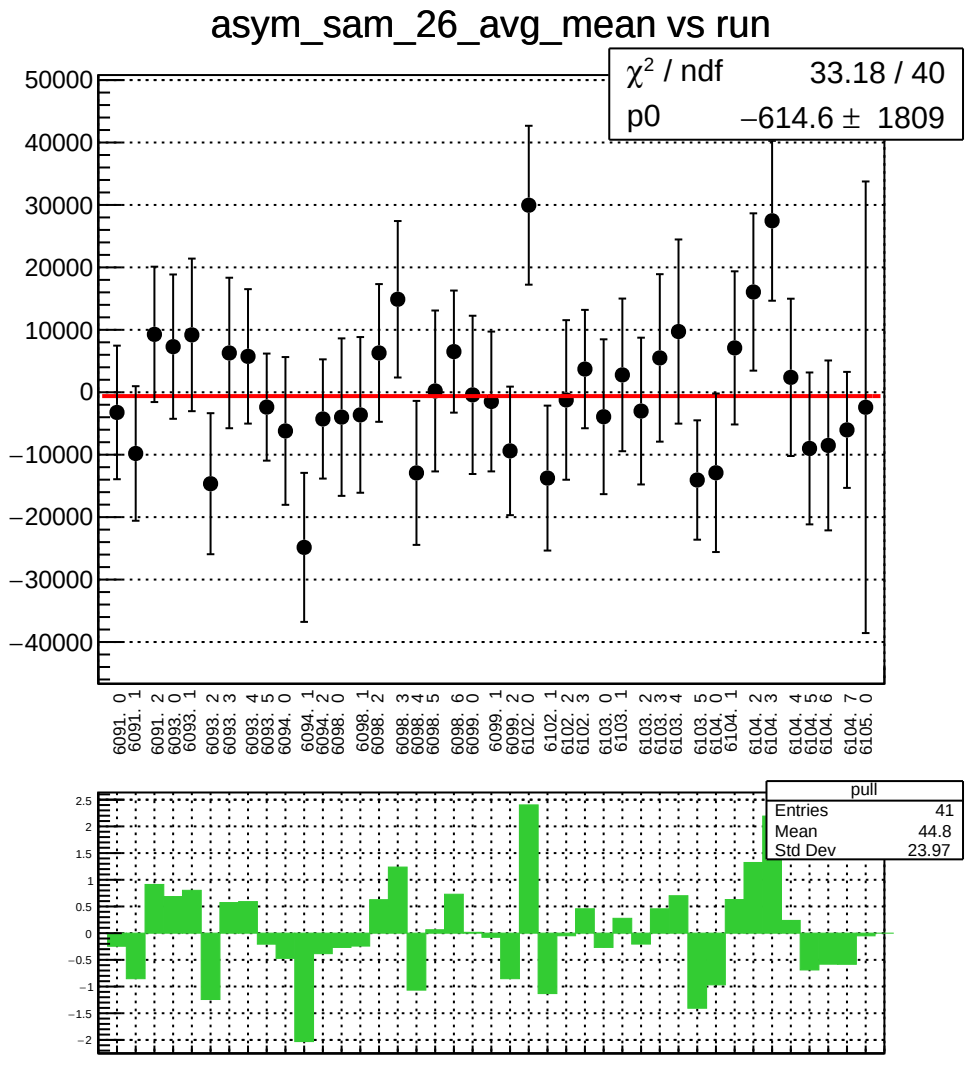

dit_asym_sam_26_avg_mean vs run
χ² / ndf 44.07 / 40
p0 83.44 ± 185.3
8000
6000
4000
2000
0
−2000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 9.084
Std Dev 18.21
2
1
0
−1
−2

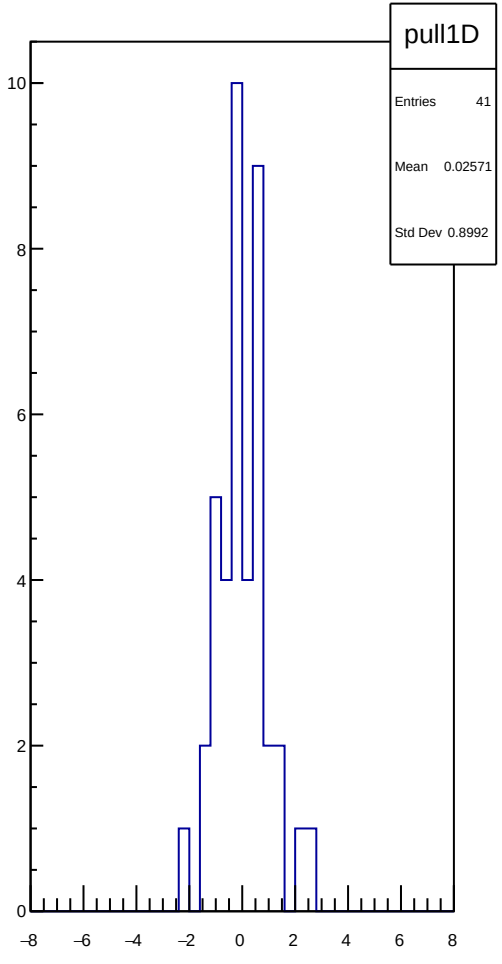

pull1D
Entries 41
Mean 0.03545
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

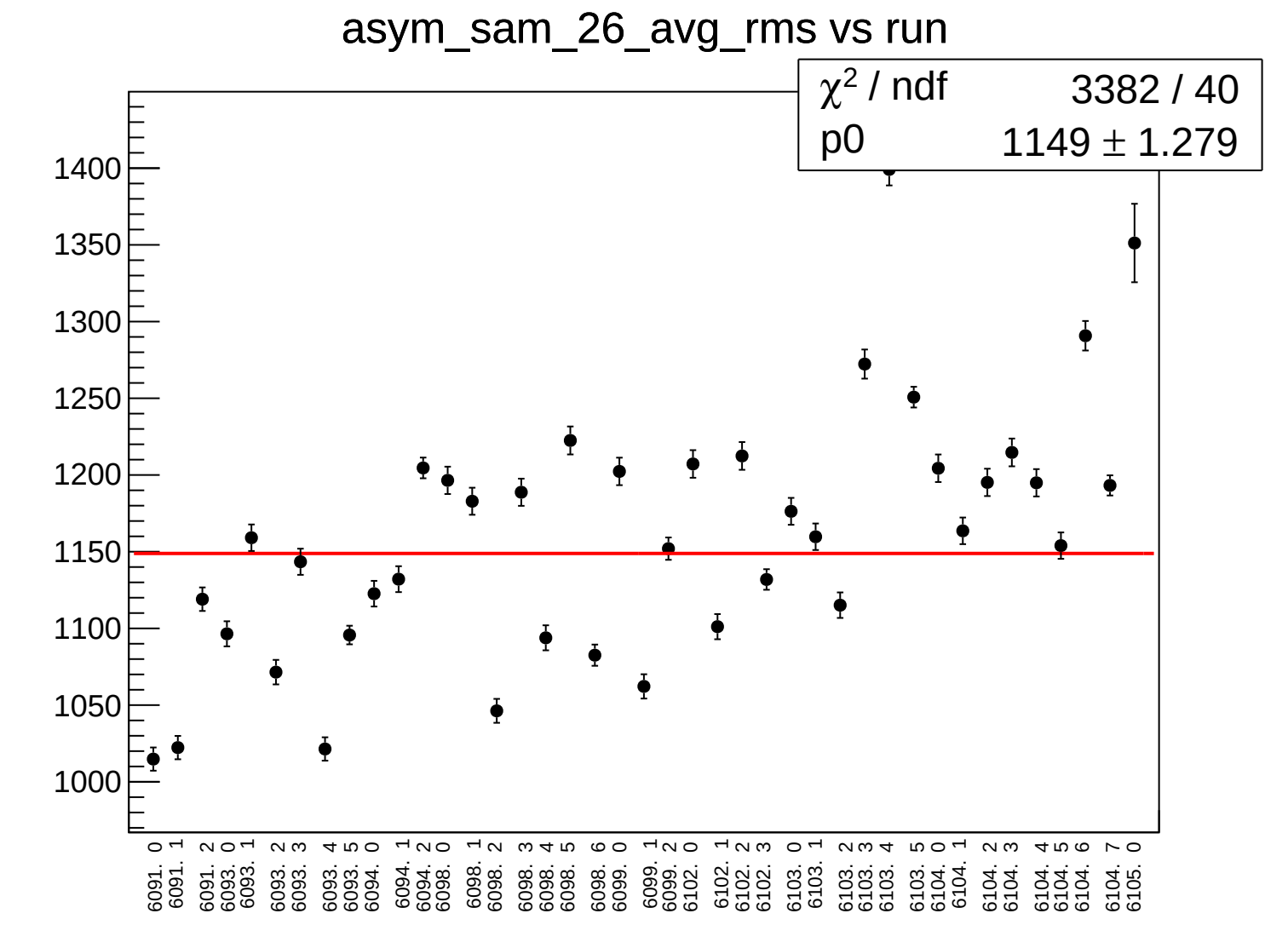

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.232e+04 / 40
p0 117 ± 0.131
220
200
180
160
140
120
100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

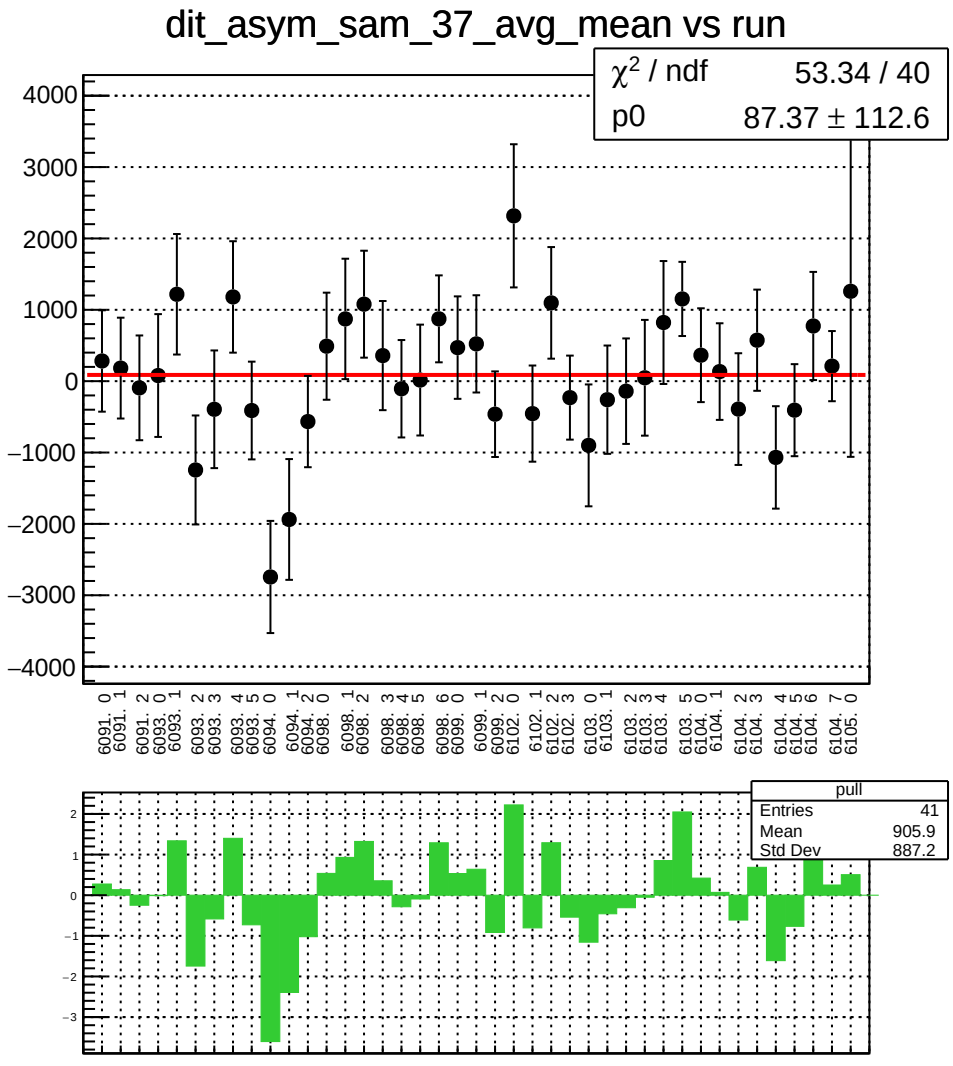

asym_sam_26_avg_correction_mean vs run
χ² / ndf 32.54 / 40
p0 580.6 ± 1779
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 60.9
Std Dev 42.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01673
Std Dev 0.8907
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

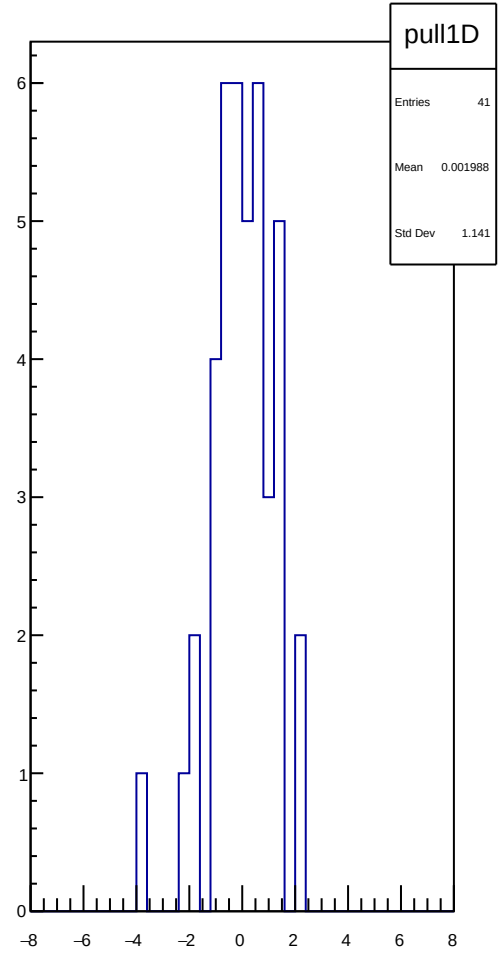

asym_sam_26_avg_correction_rms vs run
χ² / ndf 3794 / 40
p0 1130 ± 1.258
1400
1300
1200
1100
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

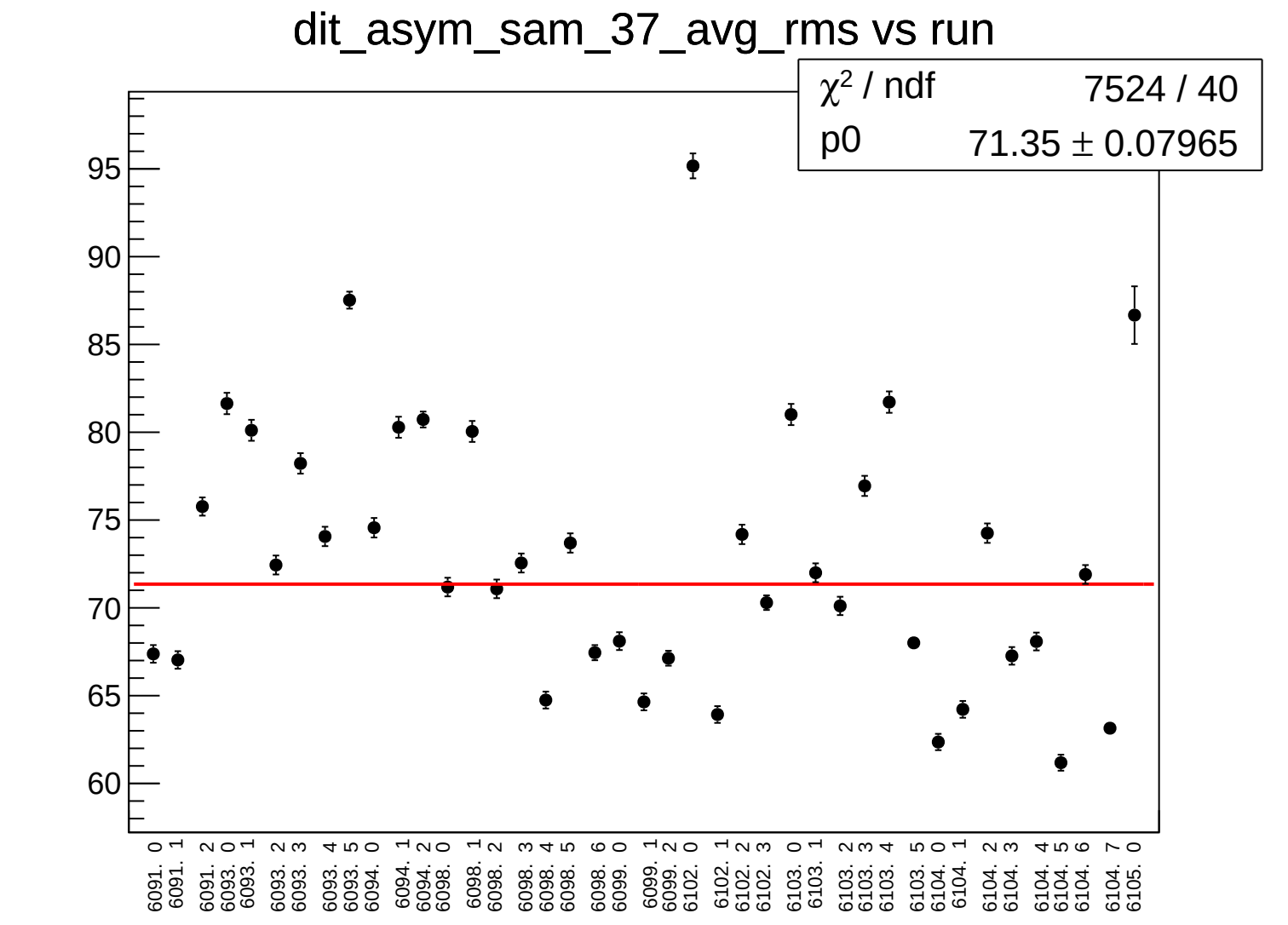

asym_sam_26_avg_mean vs run
χ² / ndf 33.18 / 40
p0 −614.6 ± 1809
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 44.8
Std Dev 23.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

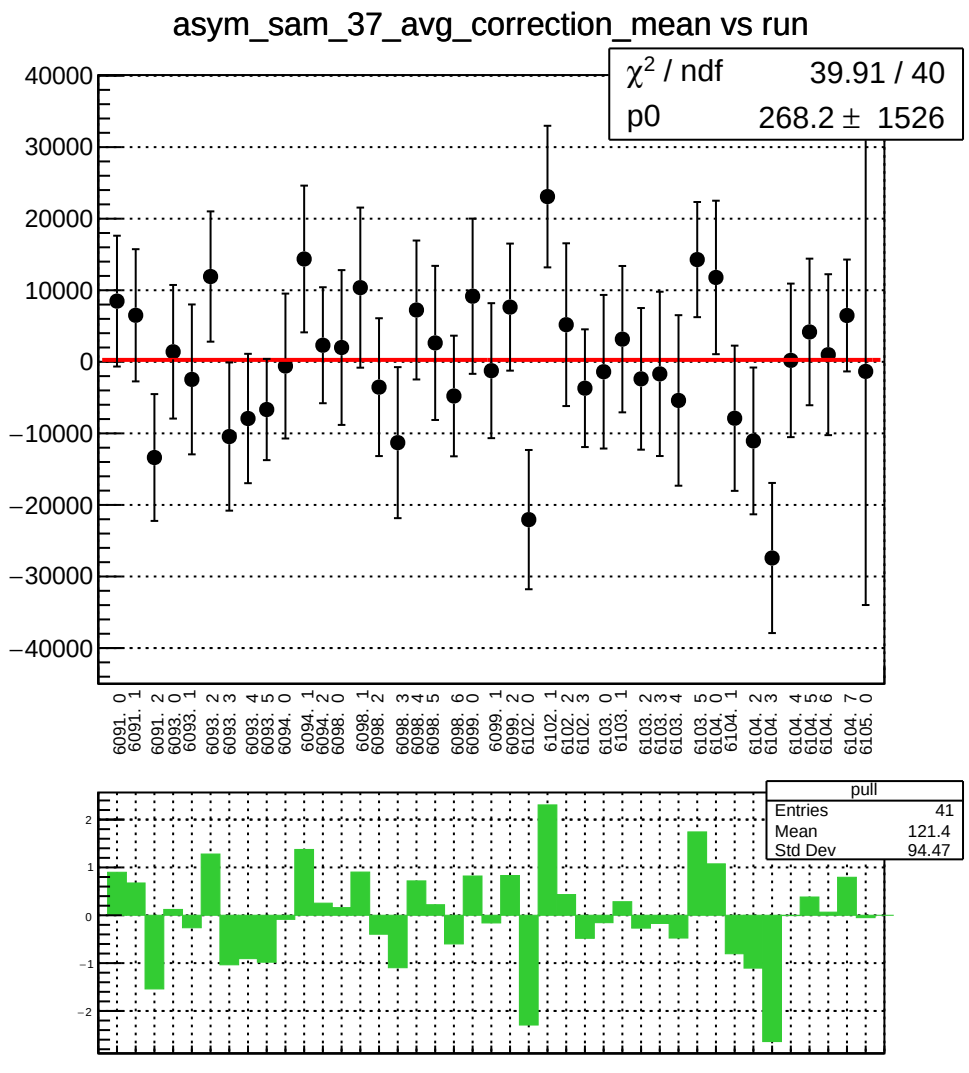

pull1D
Entries 41
Mean 0.02571
Std Dev 0.8992
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

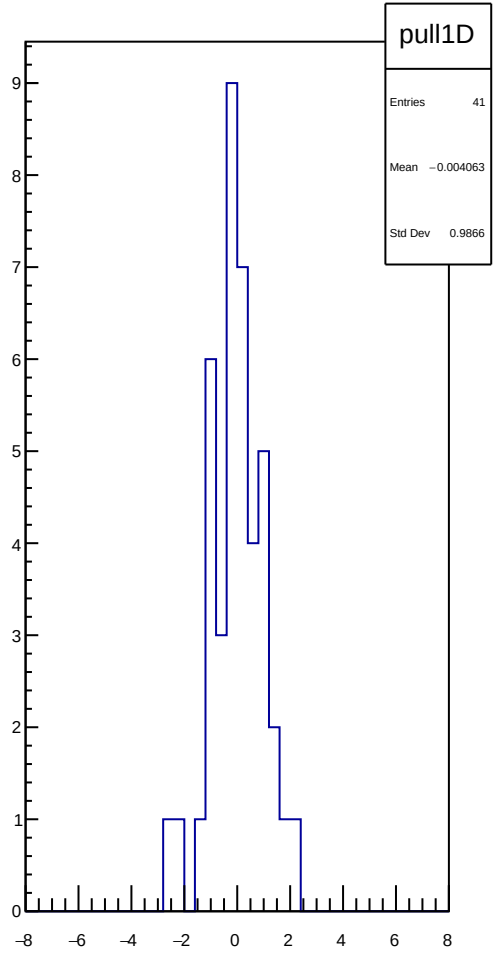

asym_sam_26_avg_rms vs run
χ² / ndf 3382 / 40
p0 1149 ± 1.279
1400
1350
1300
1250
1200
1150
1100
1050
1000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

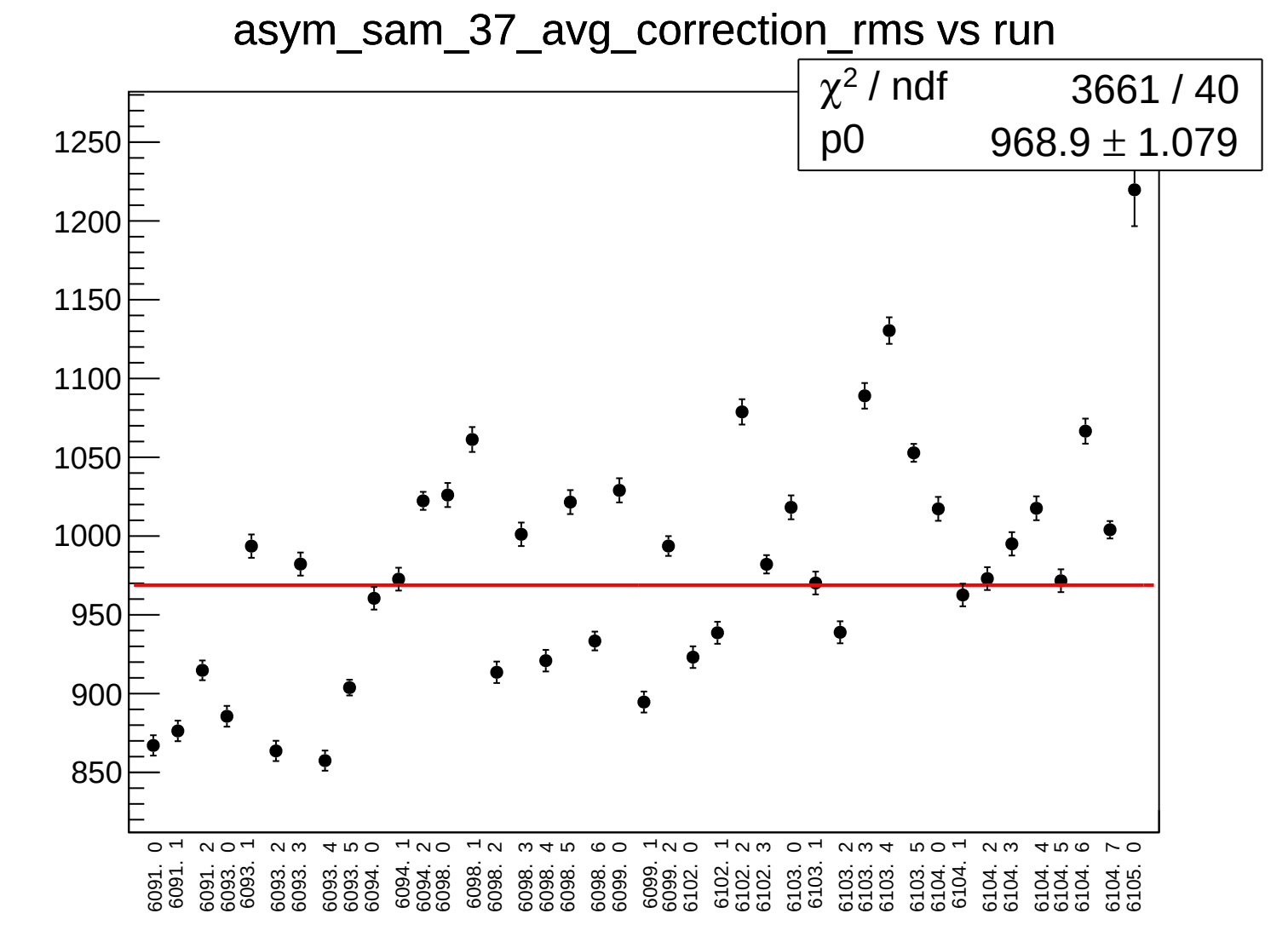

dit_asym_sam_37_avg_mean vs run
χ² / ndf 53.34 / 40
p0 87.37 ± 112.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 905.9
Std Dev 887.2
2
1
0
−1
−2
−3

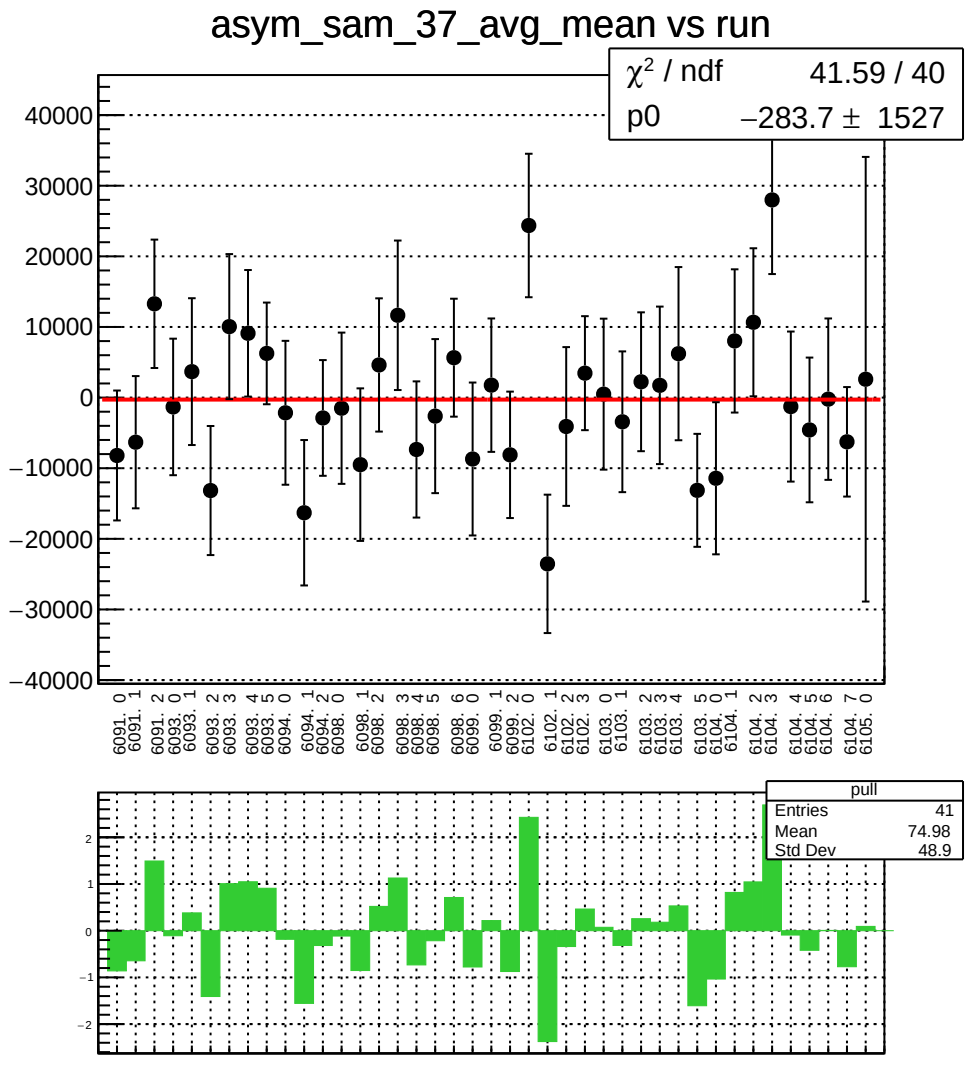

pull1D
Entries 41
Mean 0.001988
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

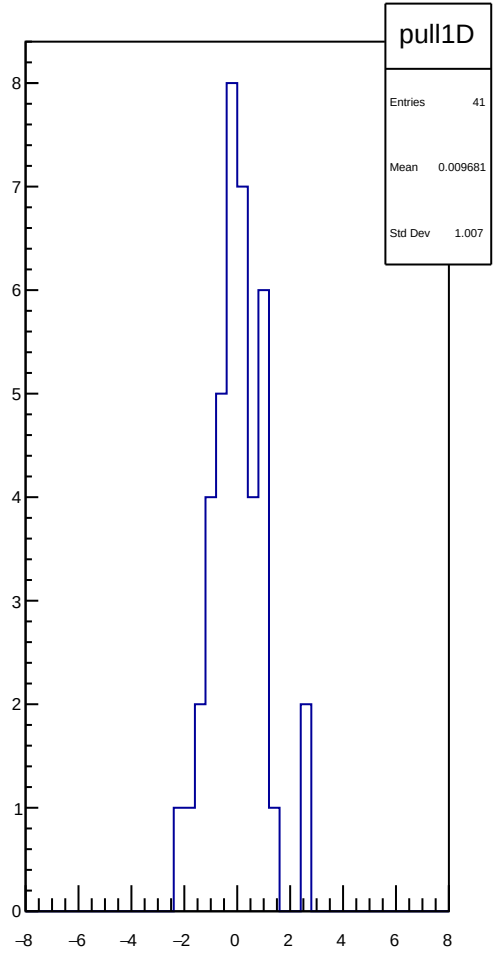

dit_asym_sam_37_avg_rms vs run
χ² / ndf 7524 / 40
p0 71.35 ± 0.07965
95
90
85
80
75
70
65
60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

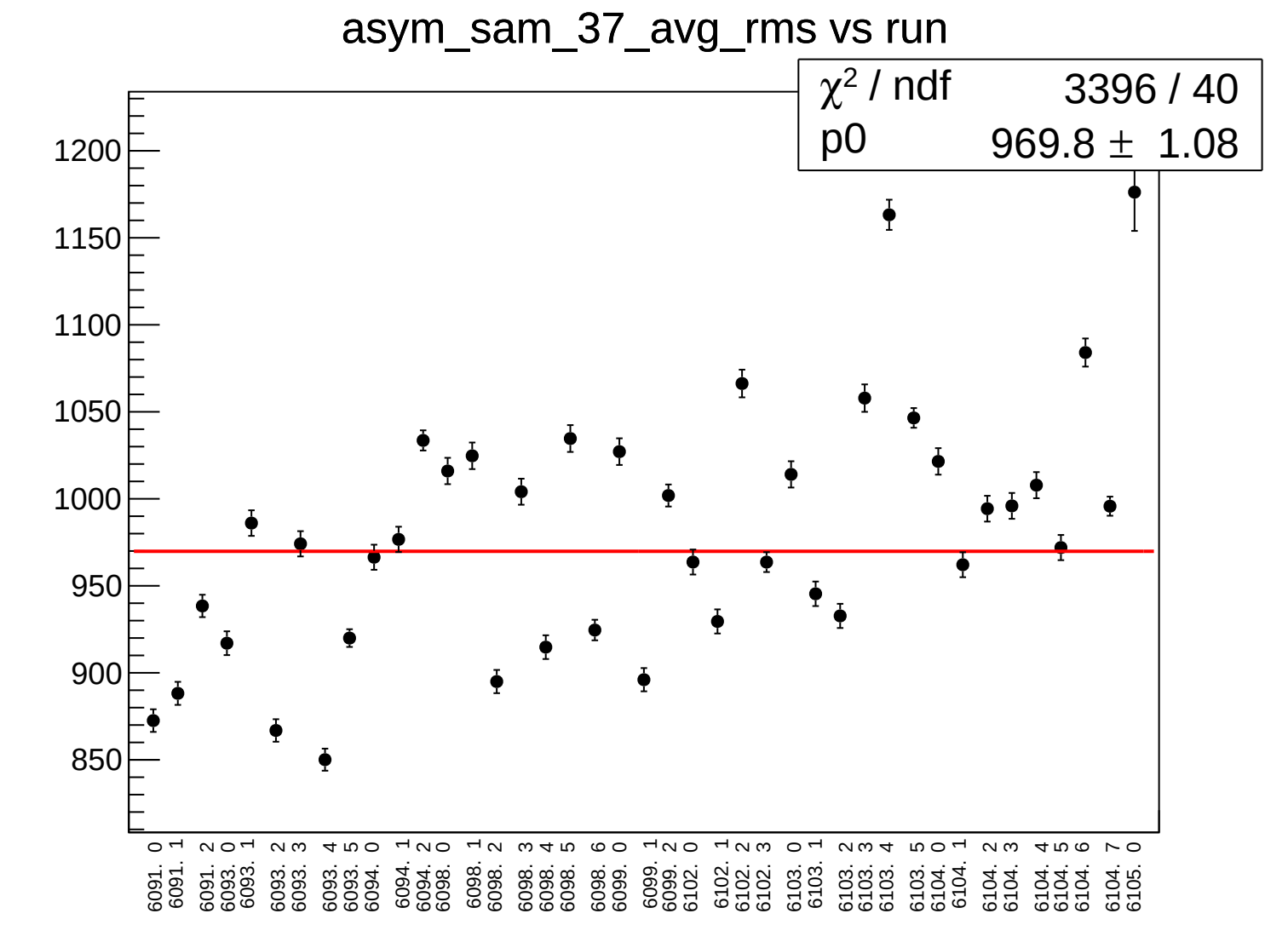

asym_sam_37_avg_correction_mean vs run
χ^2 / ndf 39.91 / 40
p0 268.2 ± 1526
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 121.4
Std Dev 94.47
2
1
0
−1
−2

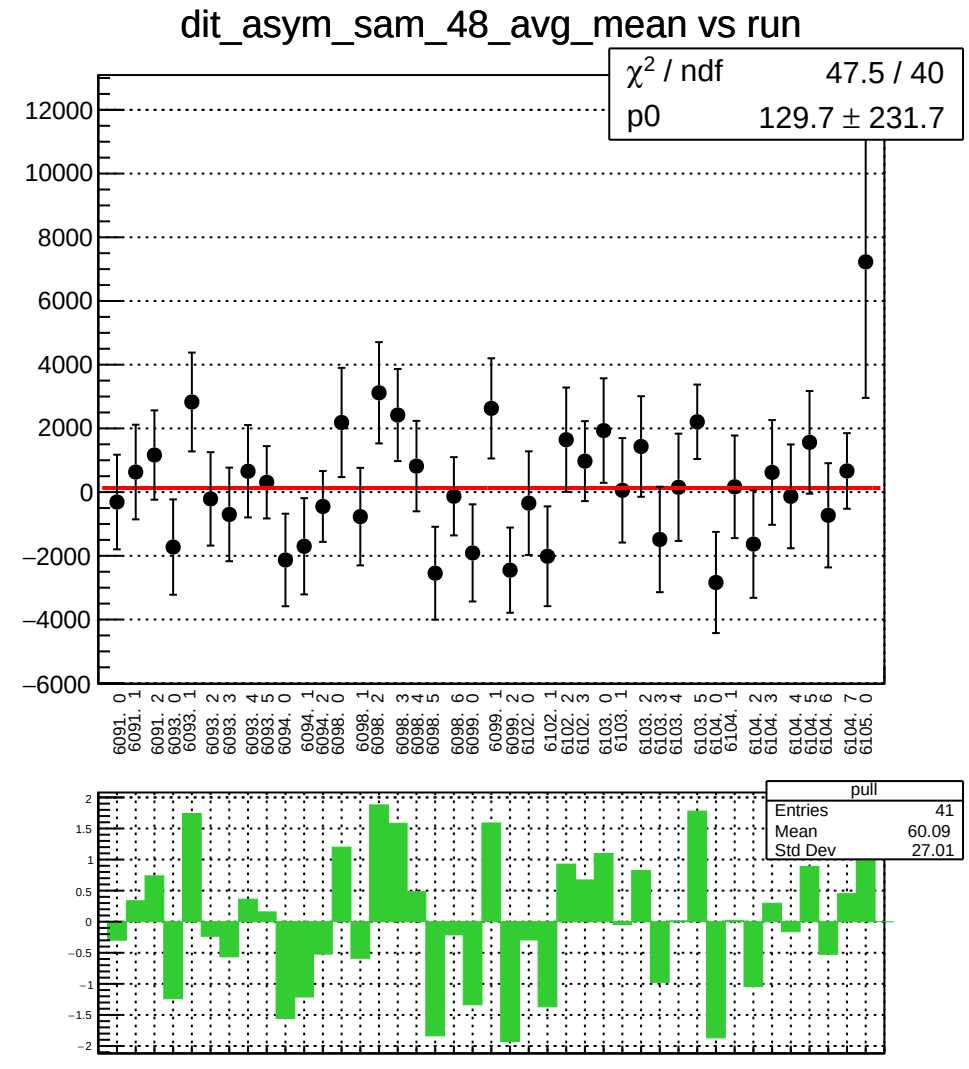

pull1D
Entries 41
Mean −0.004063
Std Dev 0.9866
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

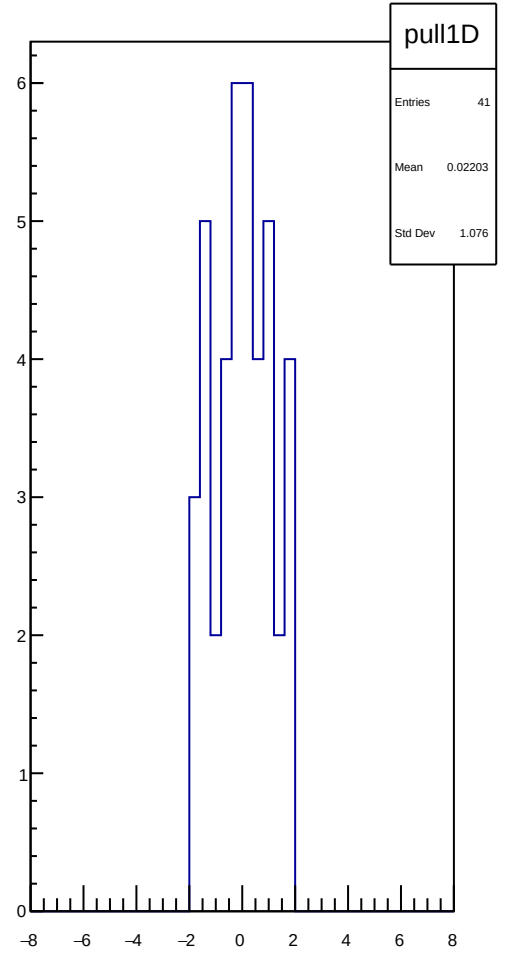

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3661 / 40
p0 968.9 ± 1.079
1250
1200
1150
1100
1050
1000
950
900
850
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

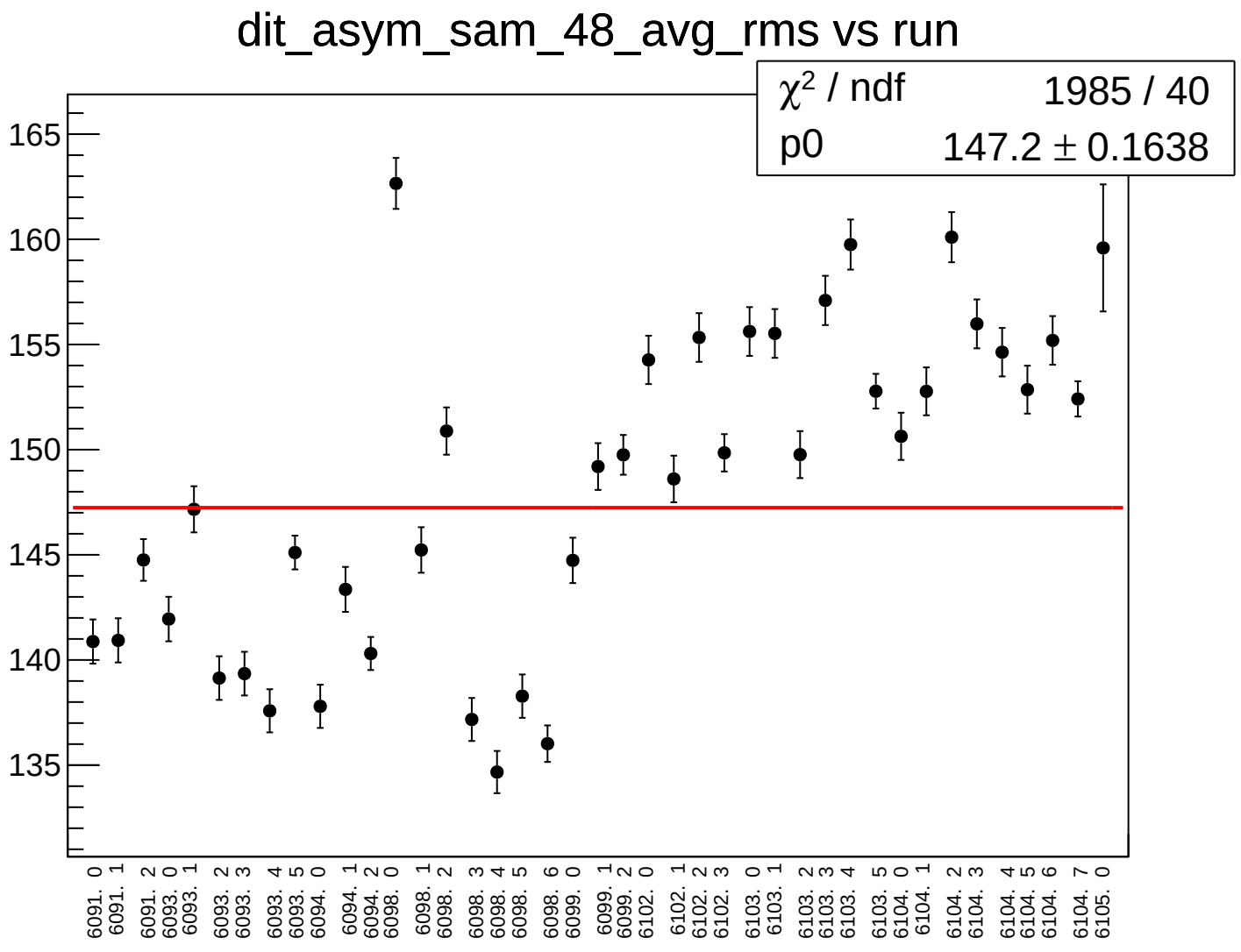

asym_sam_37_avg_mean vs run
χ² / ndf 41.59 / 40
p0 −283.7 ± 1527
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 74.98
Std Dev 48.9
2
1
0
−1
−2

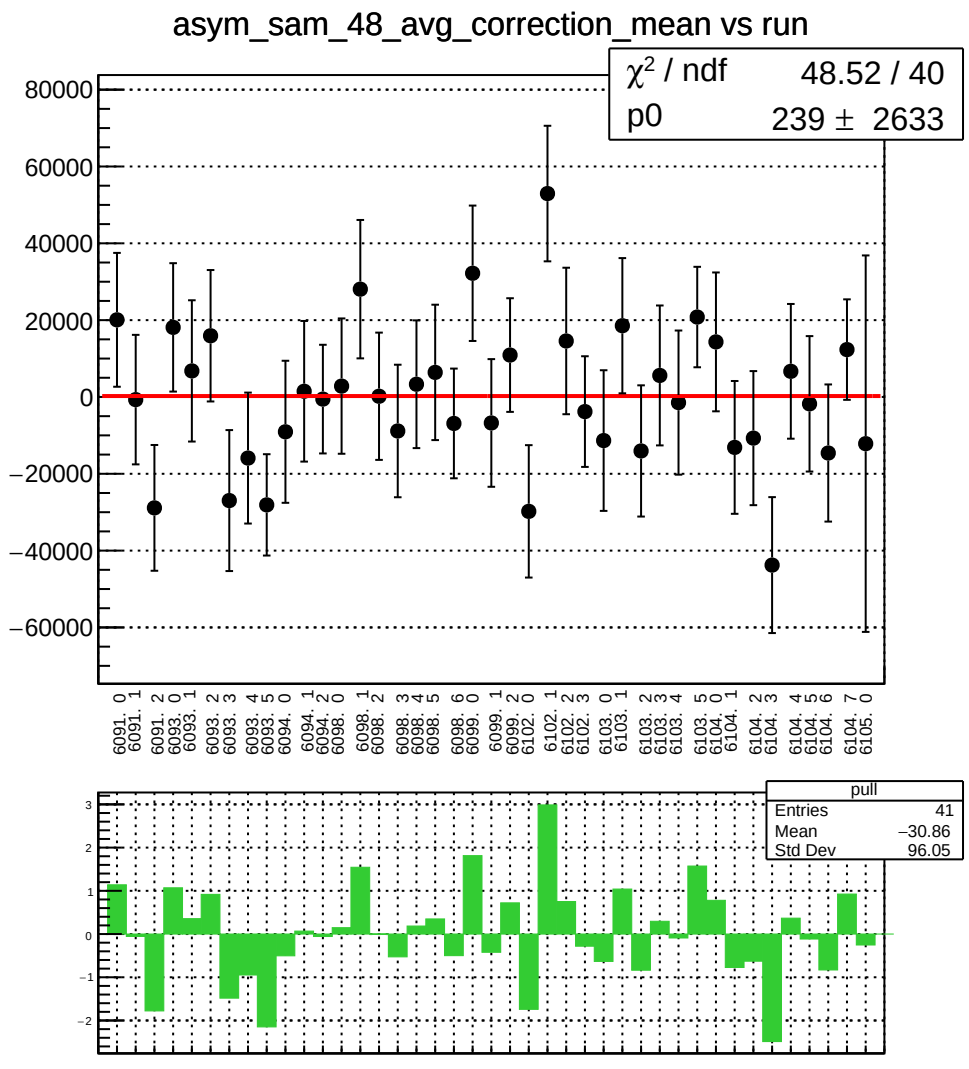

pull1D
Entries 41
Mean 0.009681
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

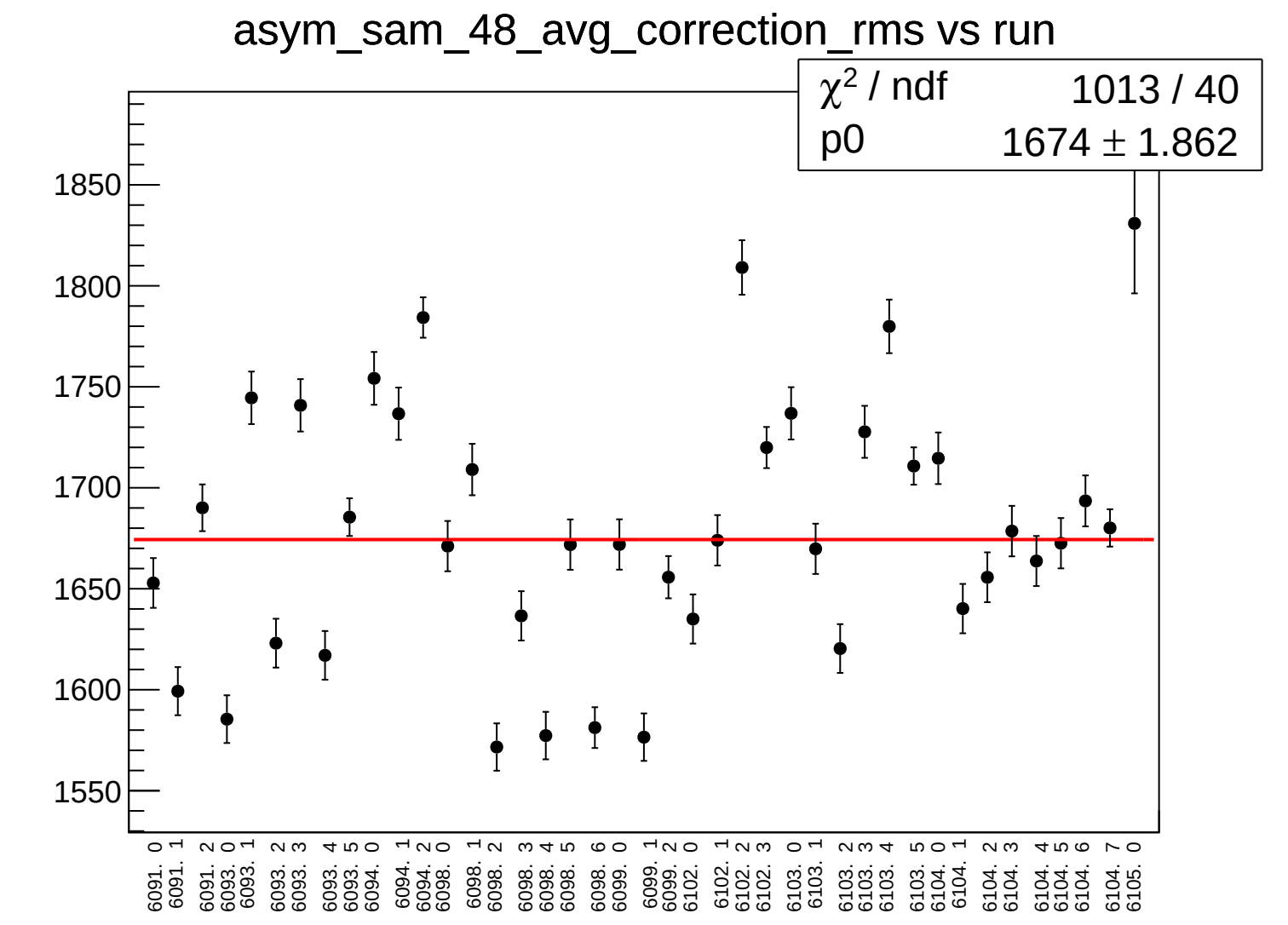

asym_sam_37_avg_rms vs run
χ² / ndf 3396 / 40
p0 969.8 ± 1.08
1200
1150
1100
1050
1000
950
900
850
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

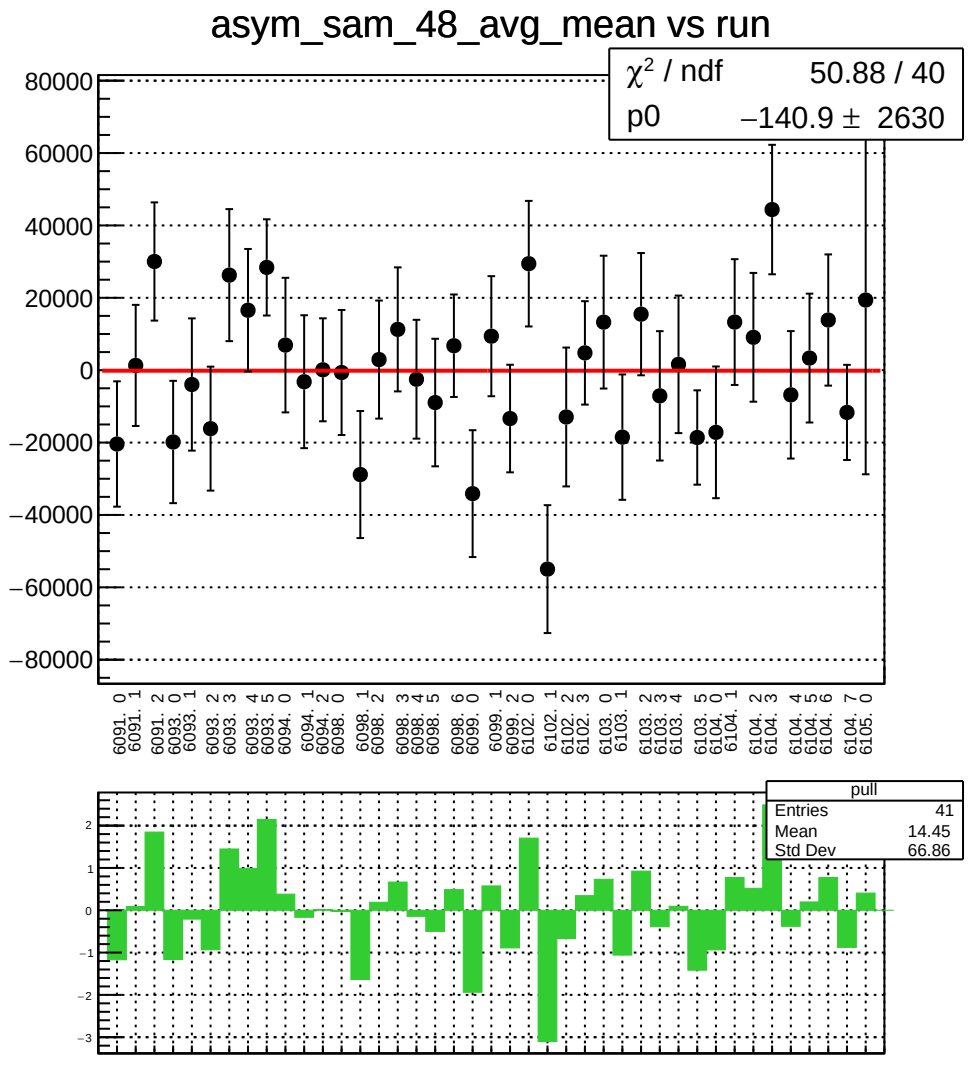

dit_asym_sam_48_avg_mean vs run
χ² / ndf 47.5 / 40
p0 129.7 ± 231.7
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 60.09
Std Dev 27.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

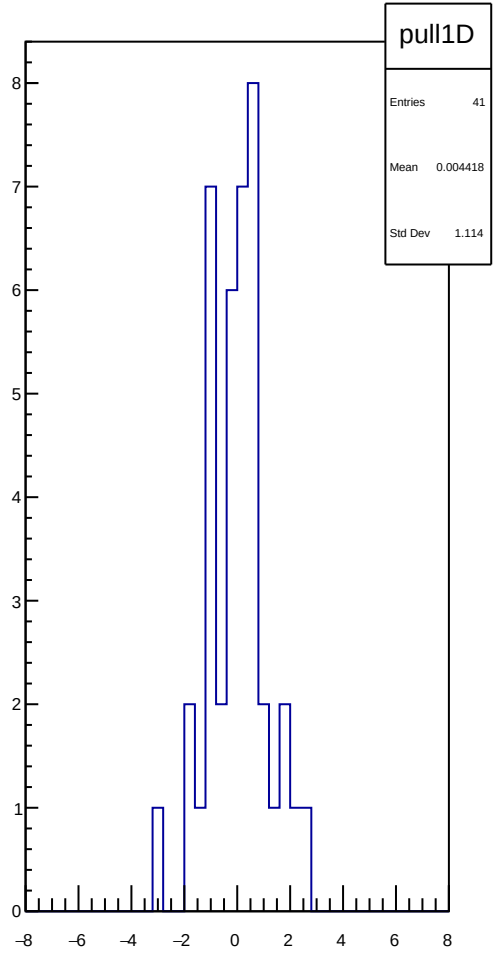

pull1D
Entries 41
Mean 0.02203
Std Dev 1.076
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

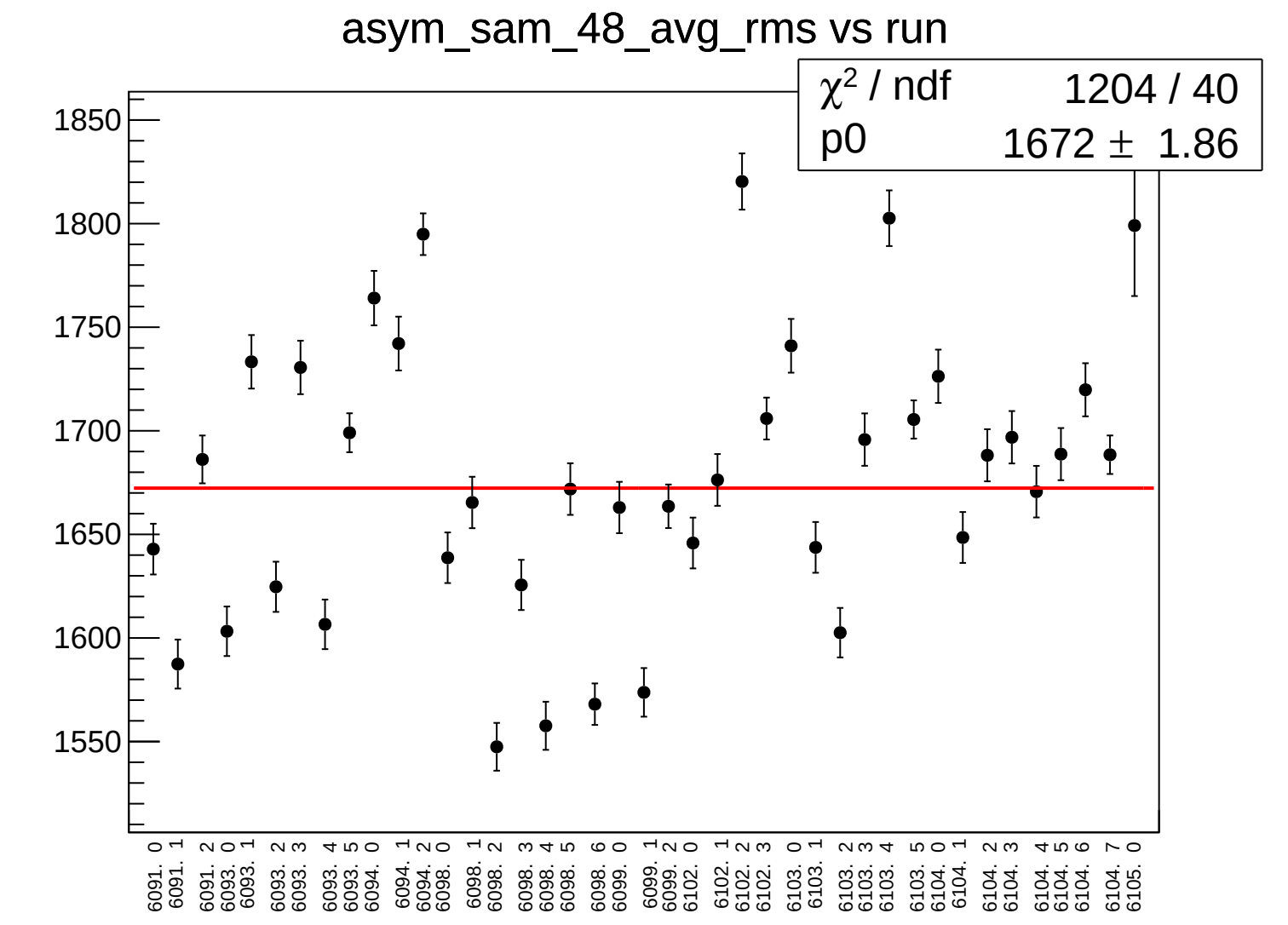

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1985 / 40
p0 147.2 ± 0.1638
165
160
155
150
145
140
135
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

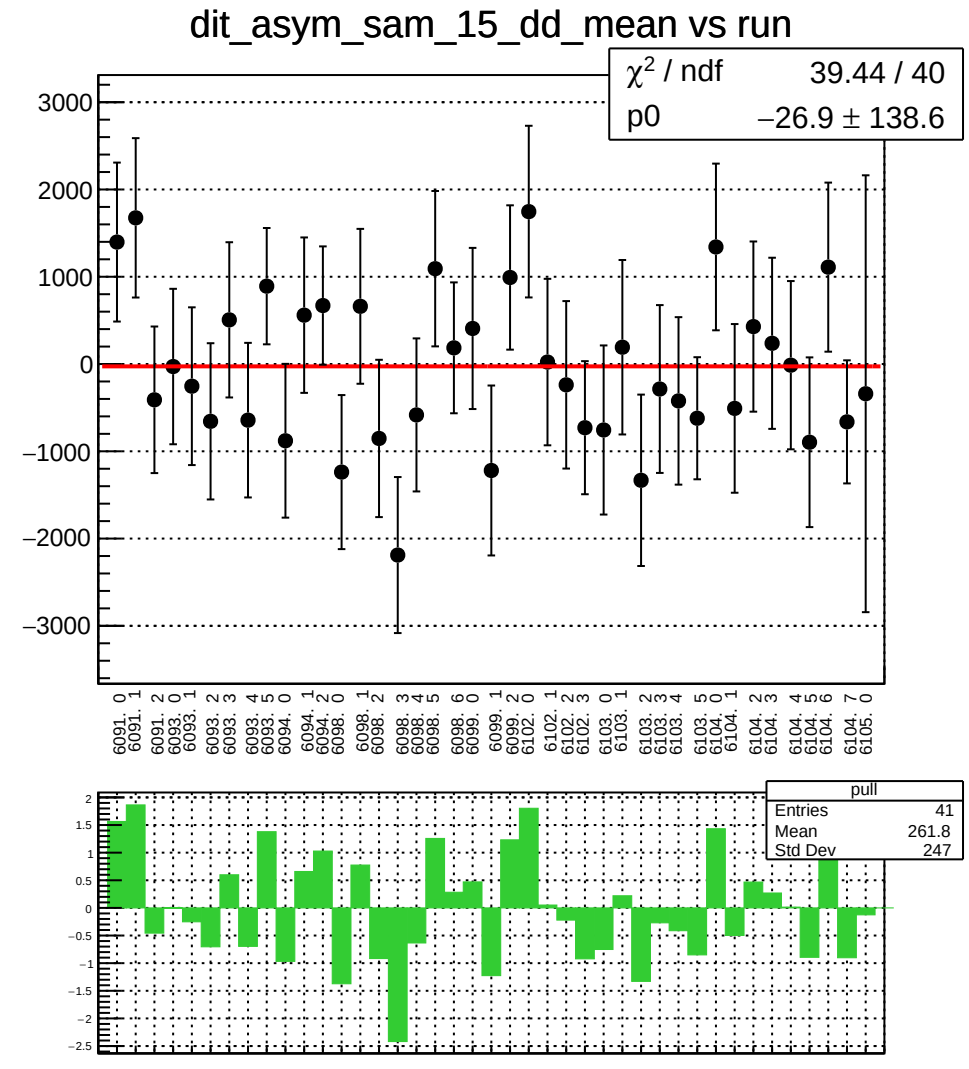

asym_sam_48_avg_correction_mean vs run
χ² / ndf 48.52 / 40
p0 239 ± 2633
80000
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −30.86
Std Dev 96.05
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.001534
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

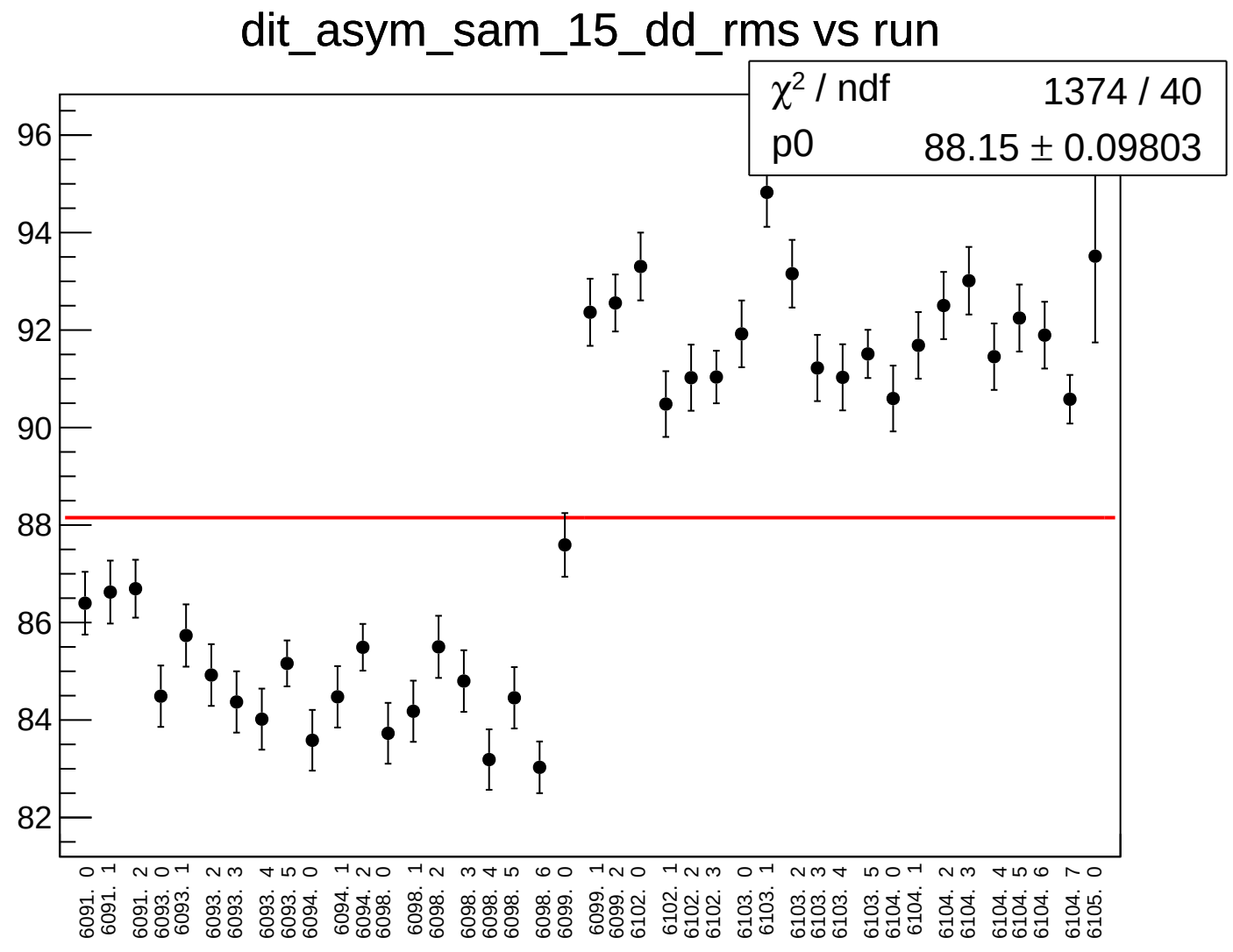

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1013 / 40
p0 1674 ± 1.862
1850
1800
1750
1700
1650
1600
1550
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

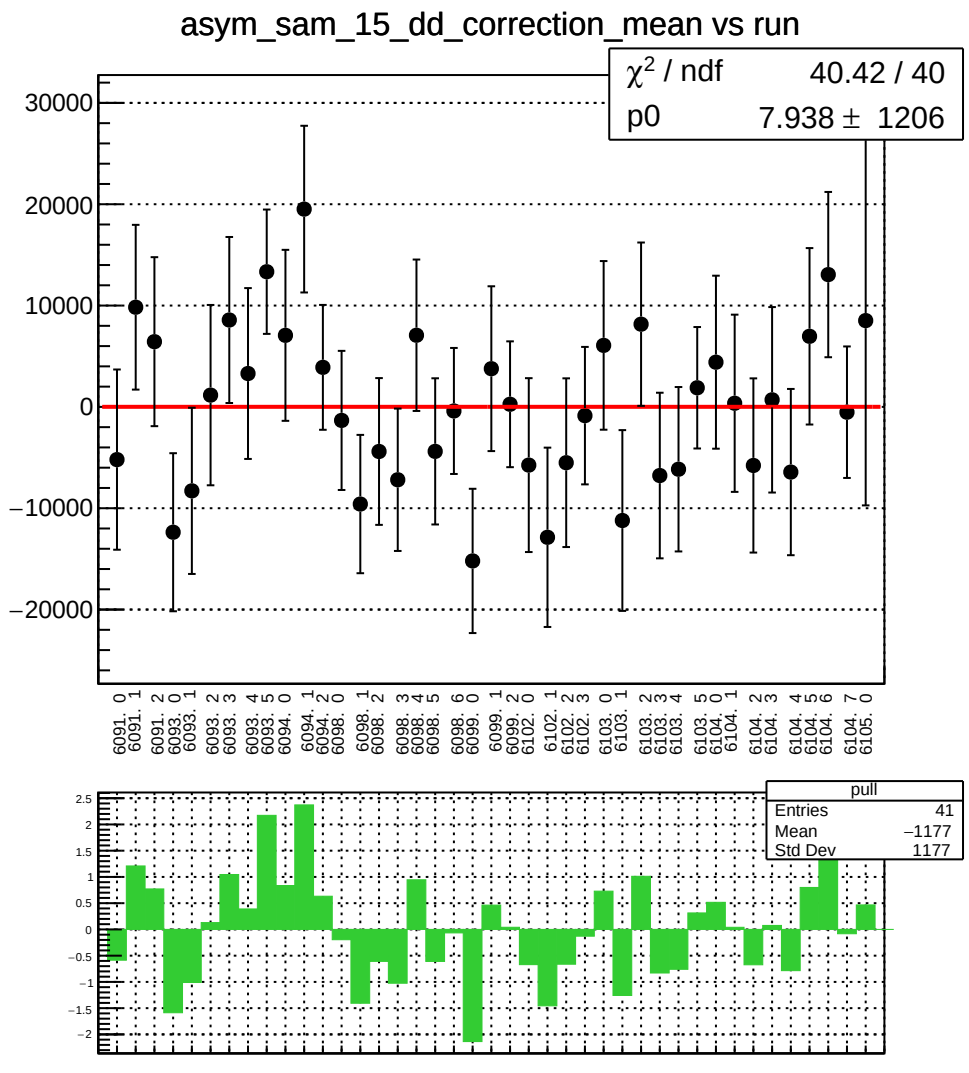

asym_sam_48_avg_mean vs run
χ² / ndf 50.88 / 40
p0 −140.9 ± 2630
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 14.45
Std Dev 66.86
2
1
0
−1
−2
−3

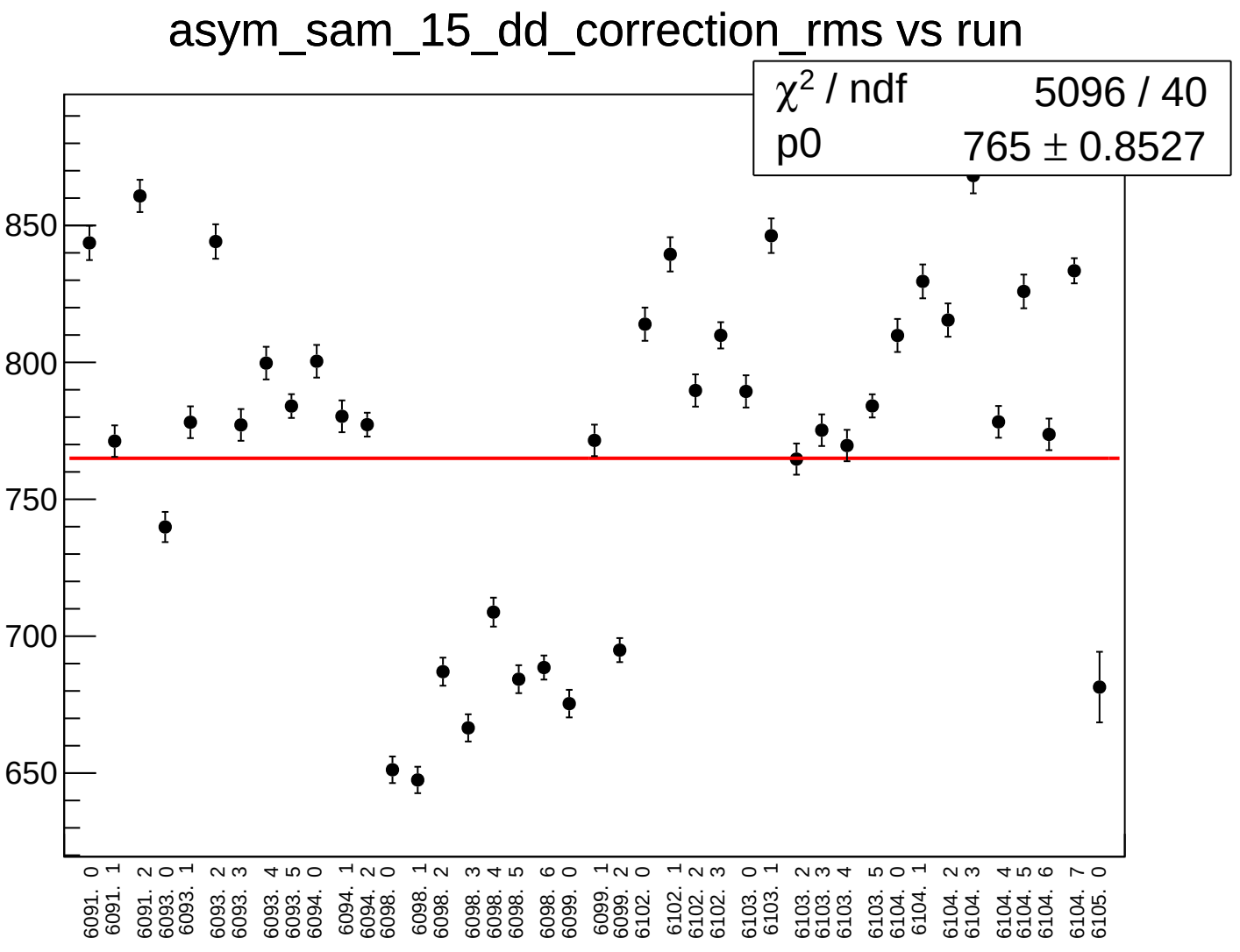

pull1D
Entries 41
Mean 0.004418
Std Dev 1.114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

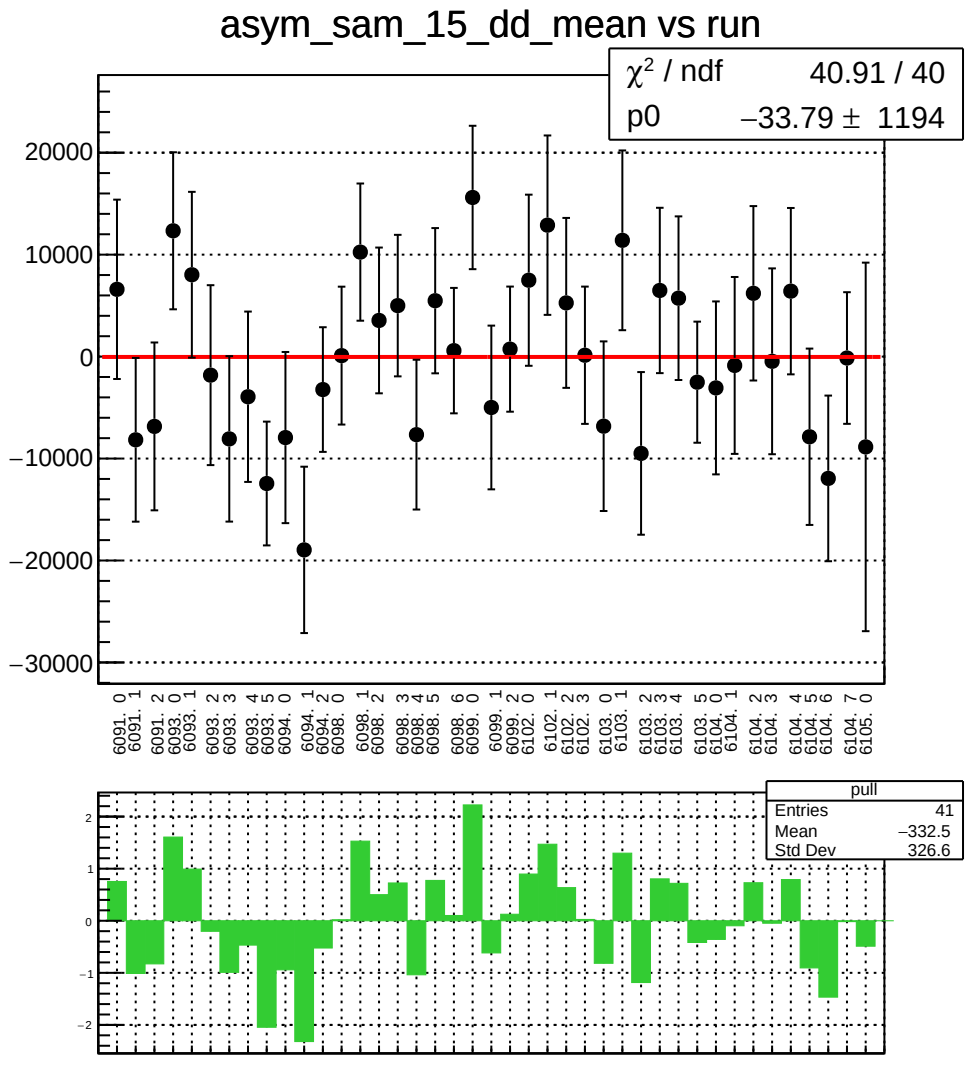

asym_sam_48_avg_rms vs run
χ² / ndf 1204 / 40
p0 1672 ± 1.86
1850
1800
1750
1700
1650
1600
1550
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

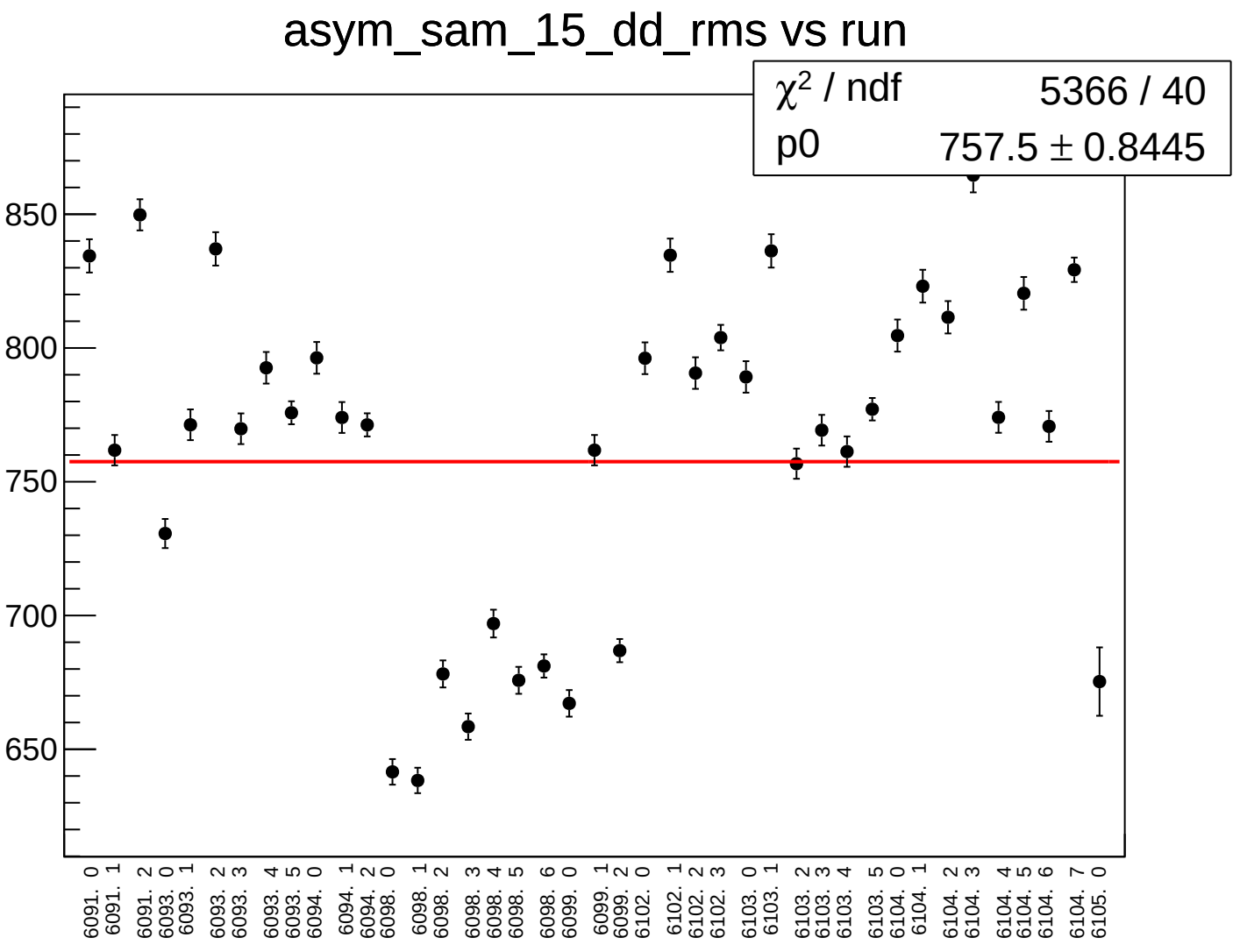

dit_asym_sam_15_dd_mean vs run
χ² / ndf 39.44 / 40
p0 −26.9 ± 138.6
3000
2000
1000
0
−1000
−2000
−3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 261.8
Std Dev 247
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.0067
Std Dev 0.9807
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

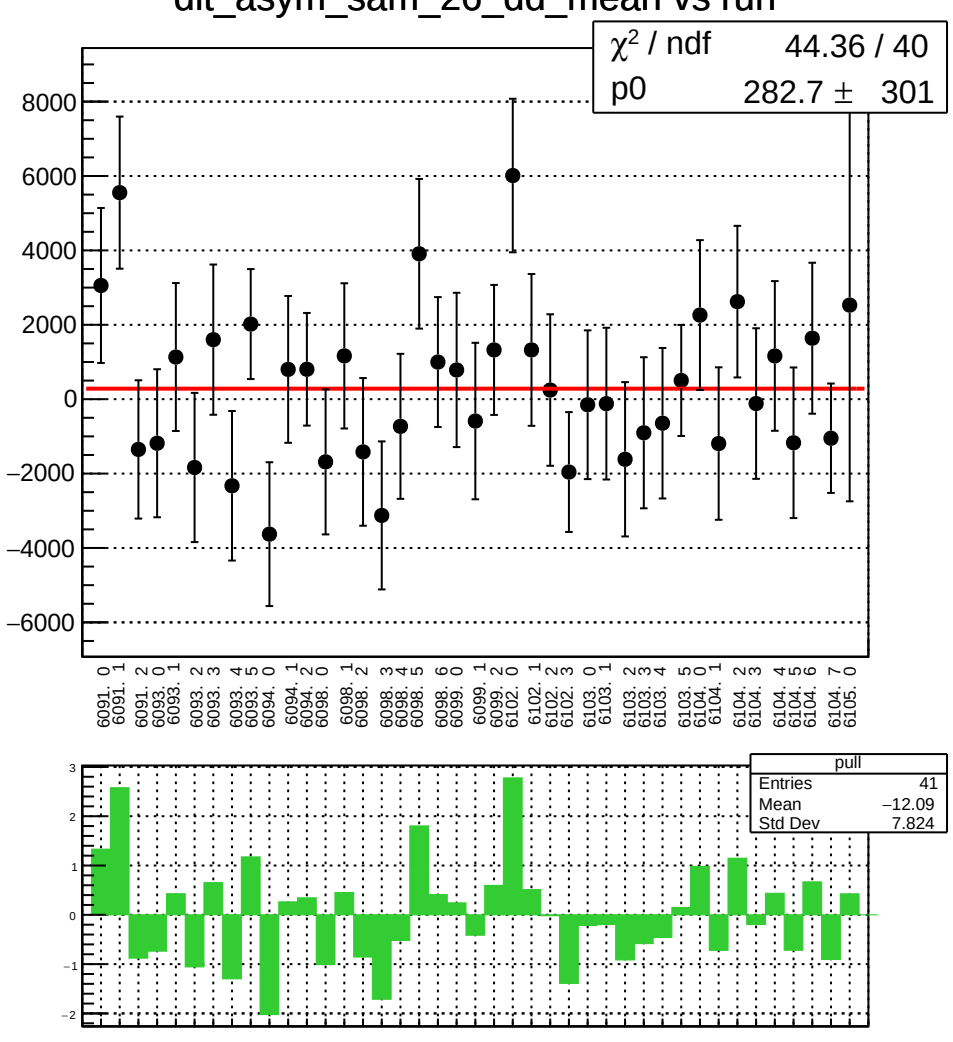

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1374 / 40
p0 88.15 ± 0.09803
96
94
92
90
88
86
84
82
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

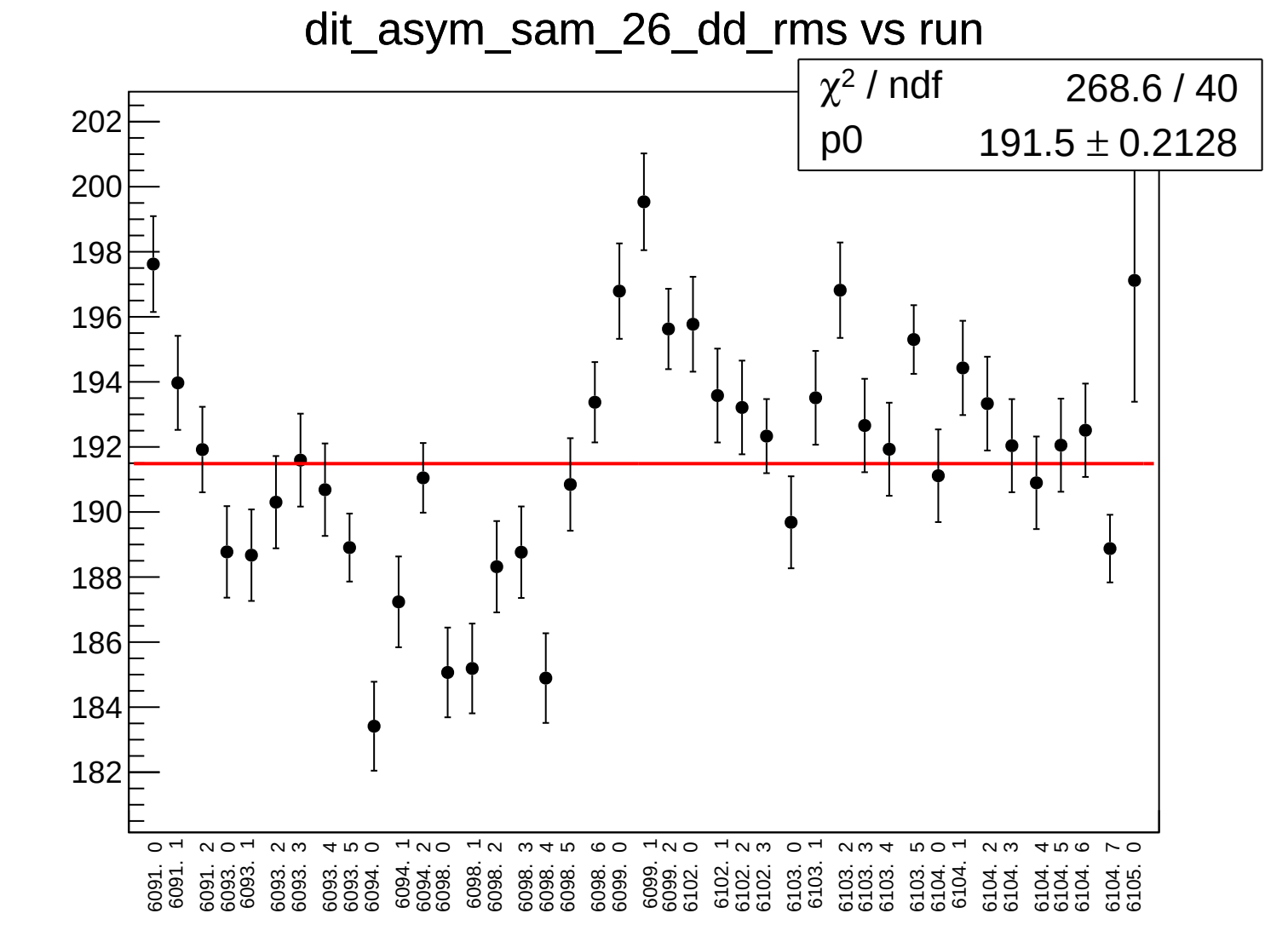

asym_sam_15_dd_correction_mean vs run
χ² / ndf 40.42 / 40
p0 7.938 ± 1206
30000
20000
10000
0
−10000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1177
Std Dev 1177
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0005845
Std Dev 0.9929
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

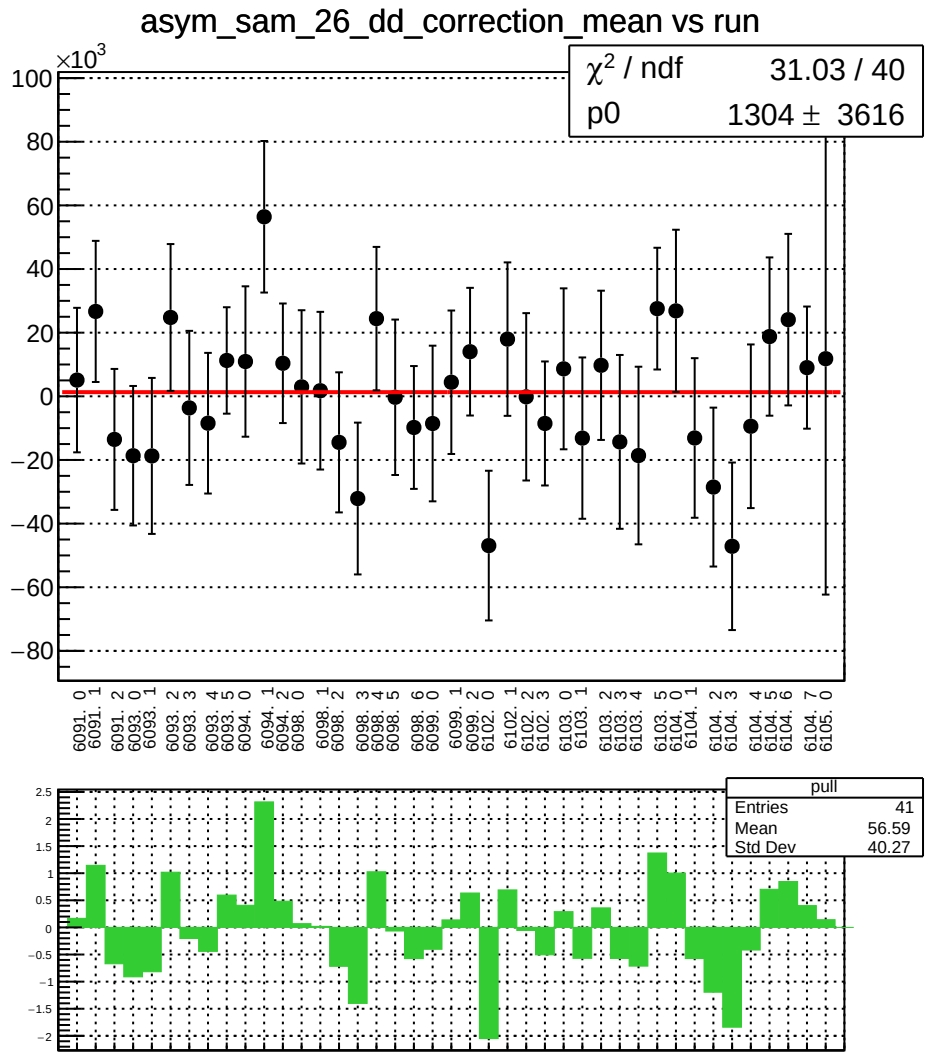

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5096 / 40
p0 765 ± 0.8527
850
800
750
700
650
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

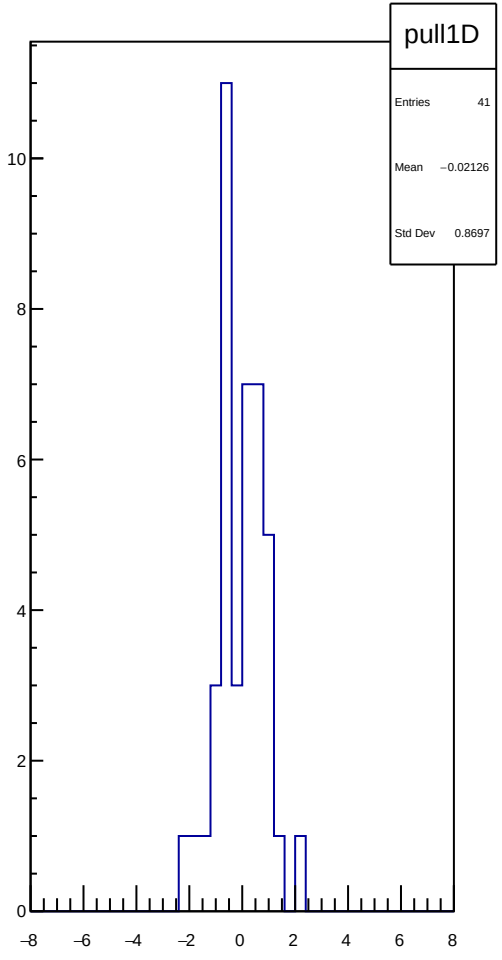

asym_sam_15_dd_mean vs run
χ² / ndf 40.91 / 40
p0 −33.79 ± 1194
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −332.5
Std Dev 326.6
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.001509
Std Dev 0.999
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

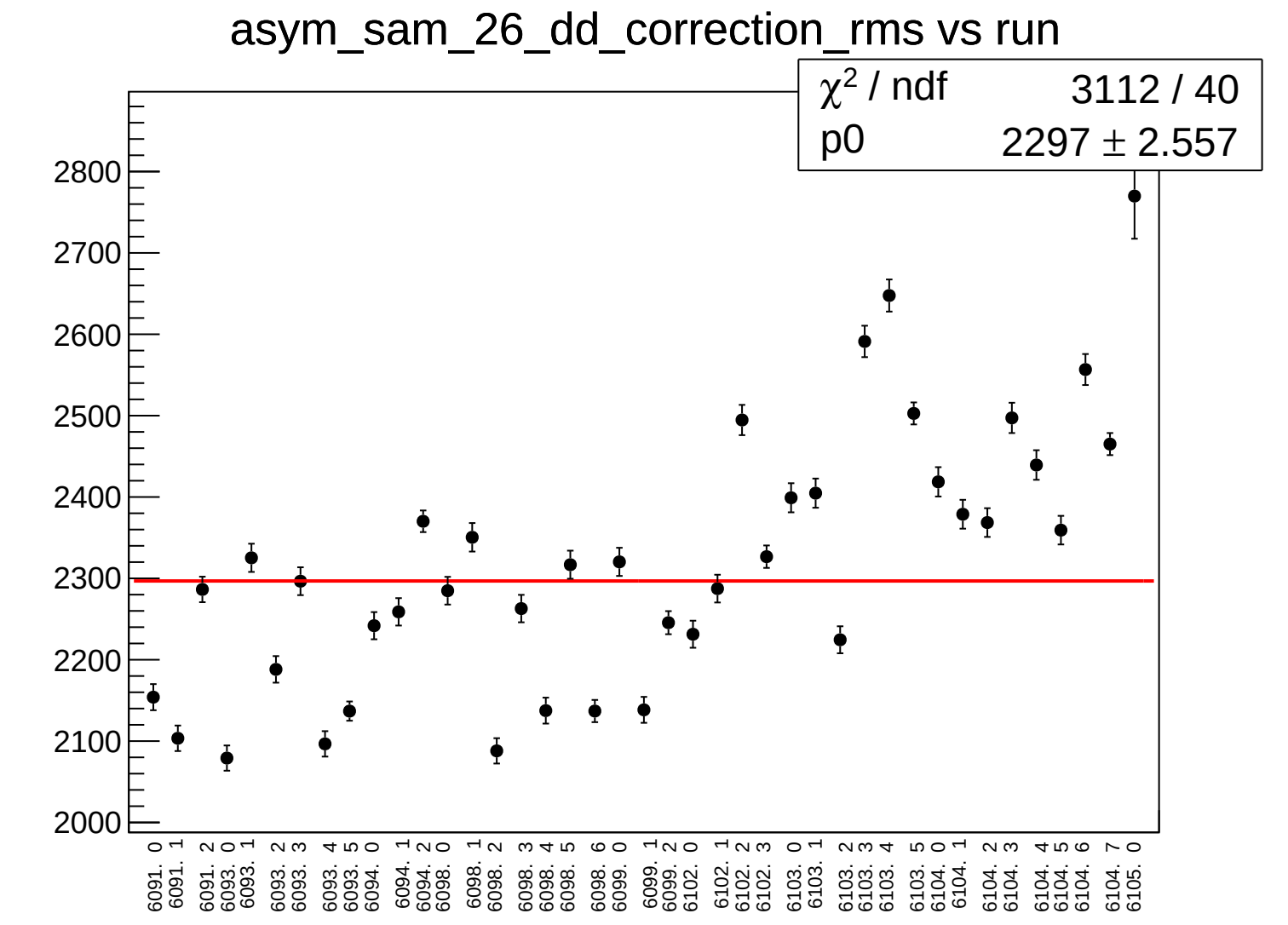

asym_sam_15_dd_rms vs run
χ² / ndf 5366 / 40
p0 757.5 ± 0.8445
850
800
750
700
650
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

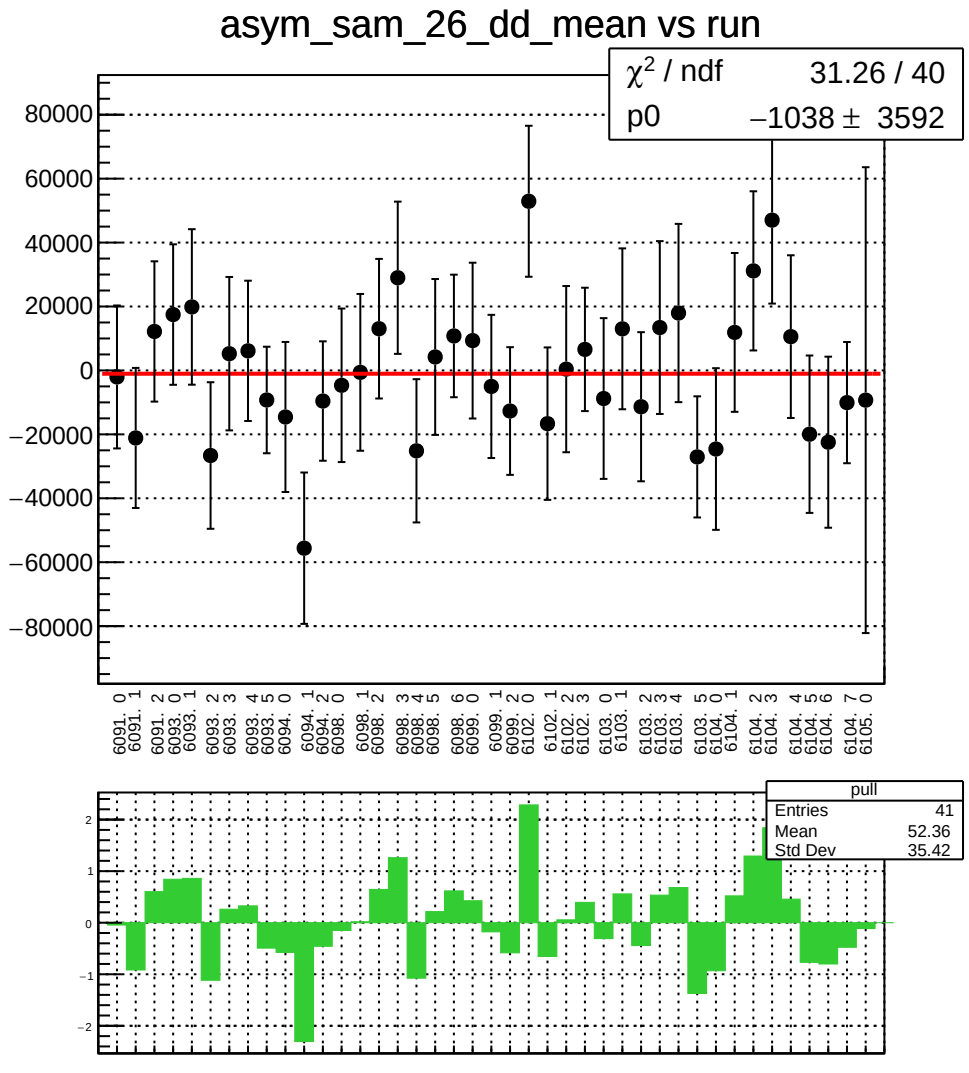

dit_asym_sam_26_dd_mean vs run
χ² / ndf 44.36 / 40
p0 282.7 ± 301
8000
6000
4000
2000
0
−2000
−4000
−6000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −12.09
Std Dev 7.824
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0133
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

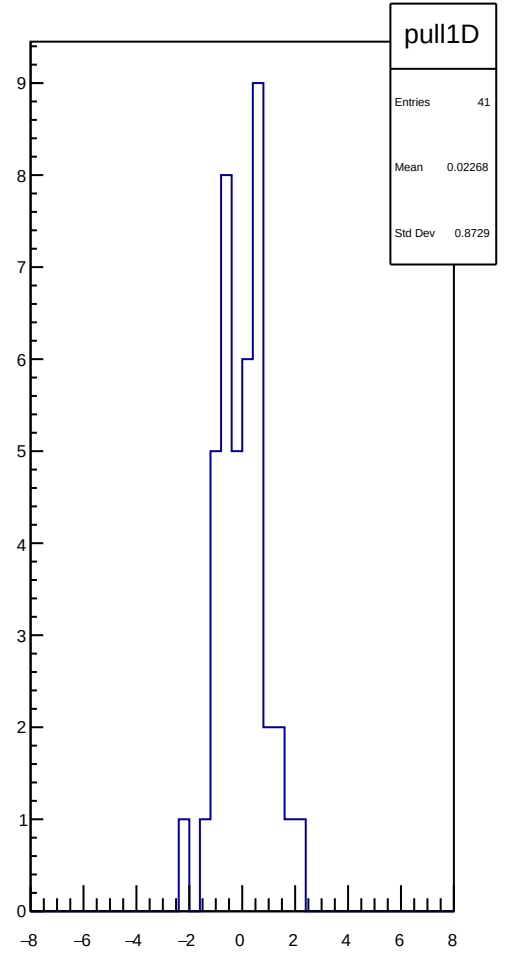

dit_asym_sam_26_dd_rms vs run
χ² / ndf 268.6 / 40
p0 191.5 ± 0.2128
202
200
198
196
194
192
190
188
186
184
182
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

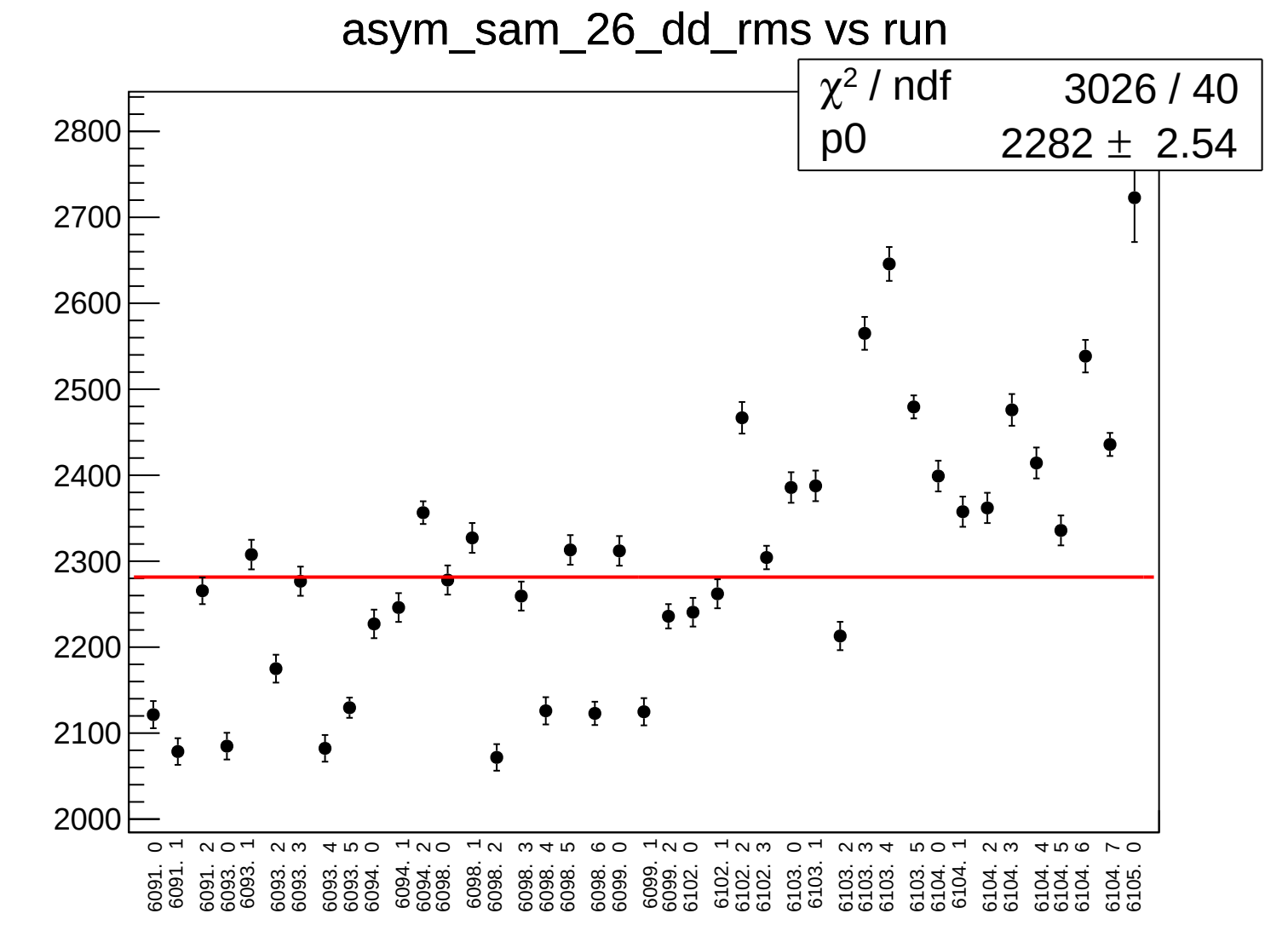

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 31.03 / 40
p0 1304 ± 3616
pull
Entries 41
Mean 56.59
Std Dev 40.27

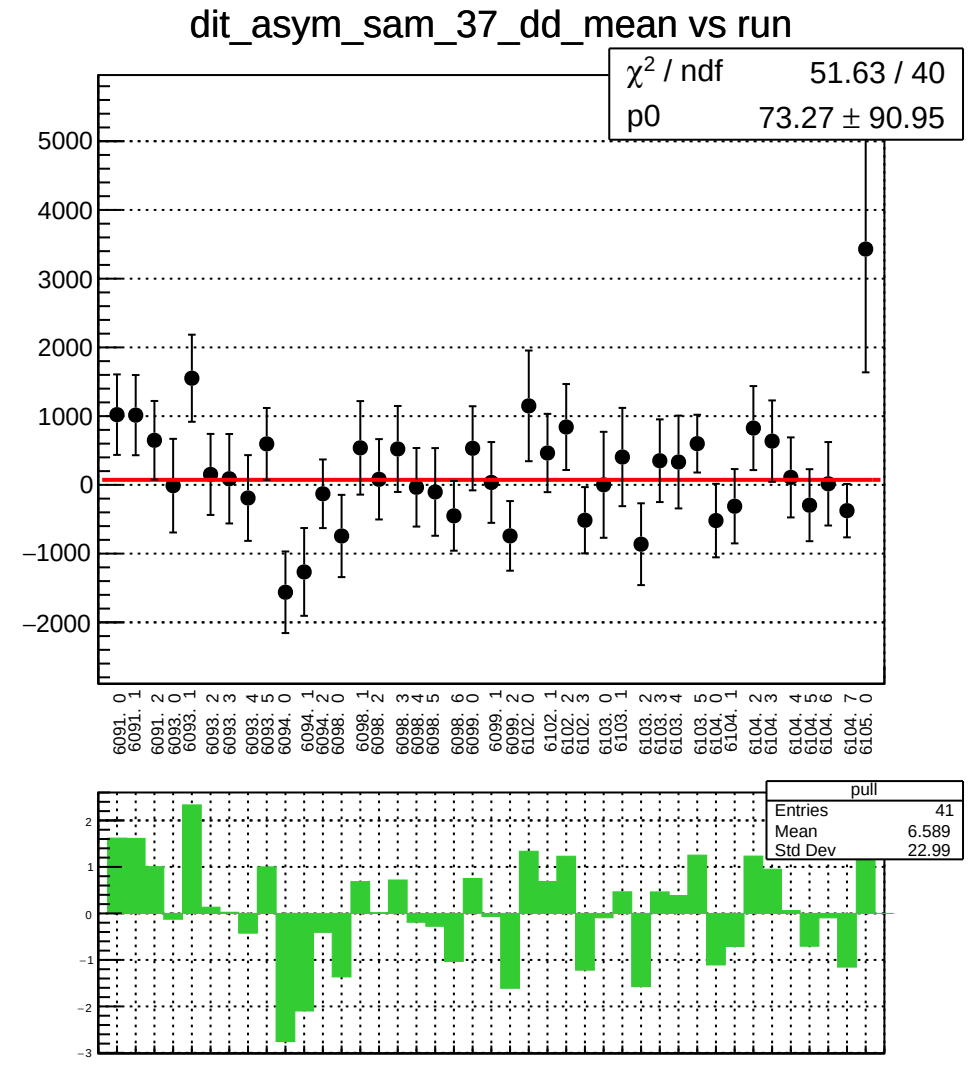

pull1D
Entries 41
Mean −0.02126
Std Dev 0.8697

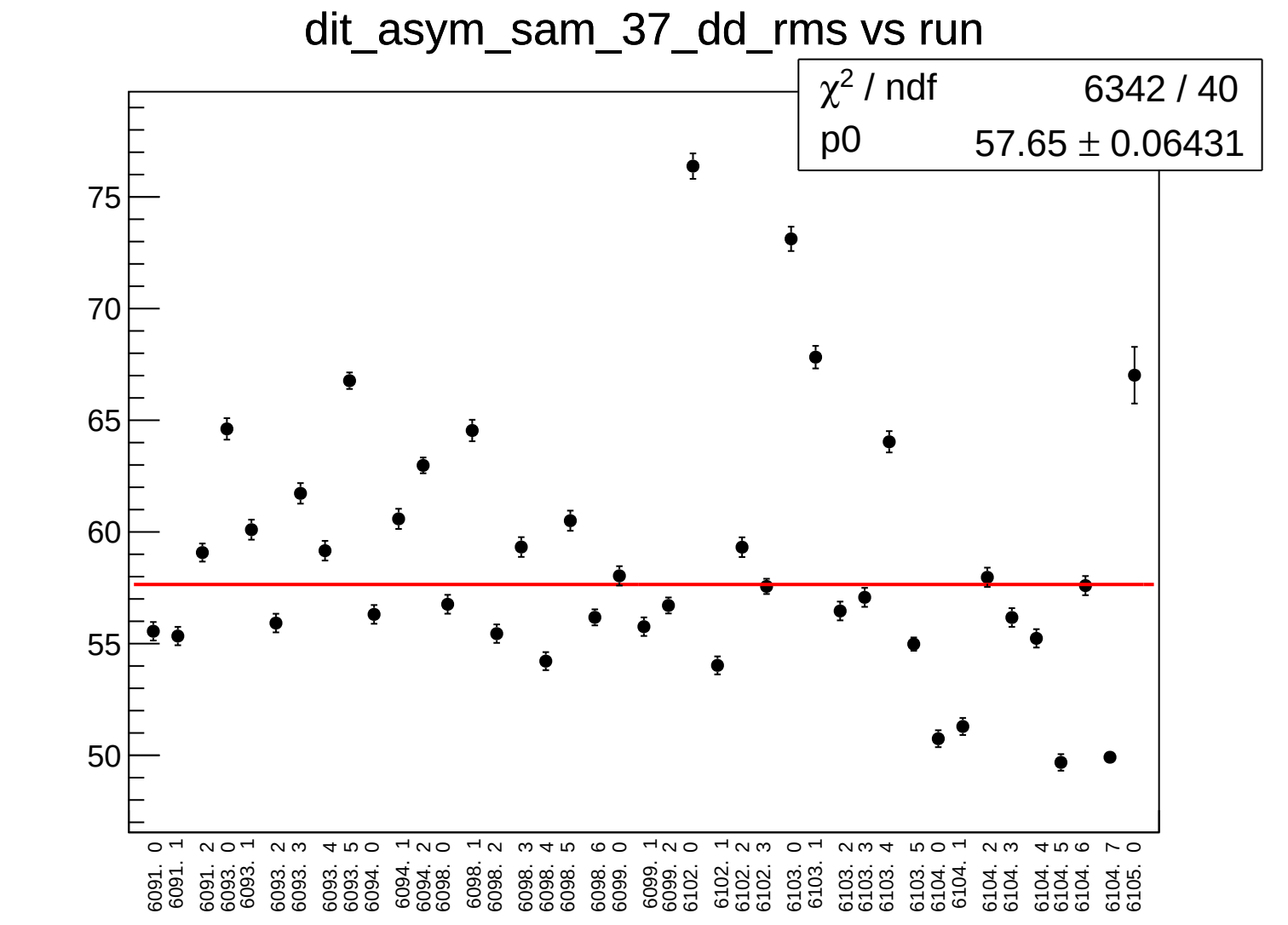

asym_sam_26_dd_correction_rms vs run
χ² / ndf 3112 / 40
p0 2297 ± 2.557
2800
2700
2600
2500
2400
2300
2200
2100
2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

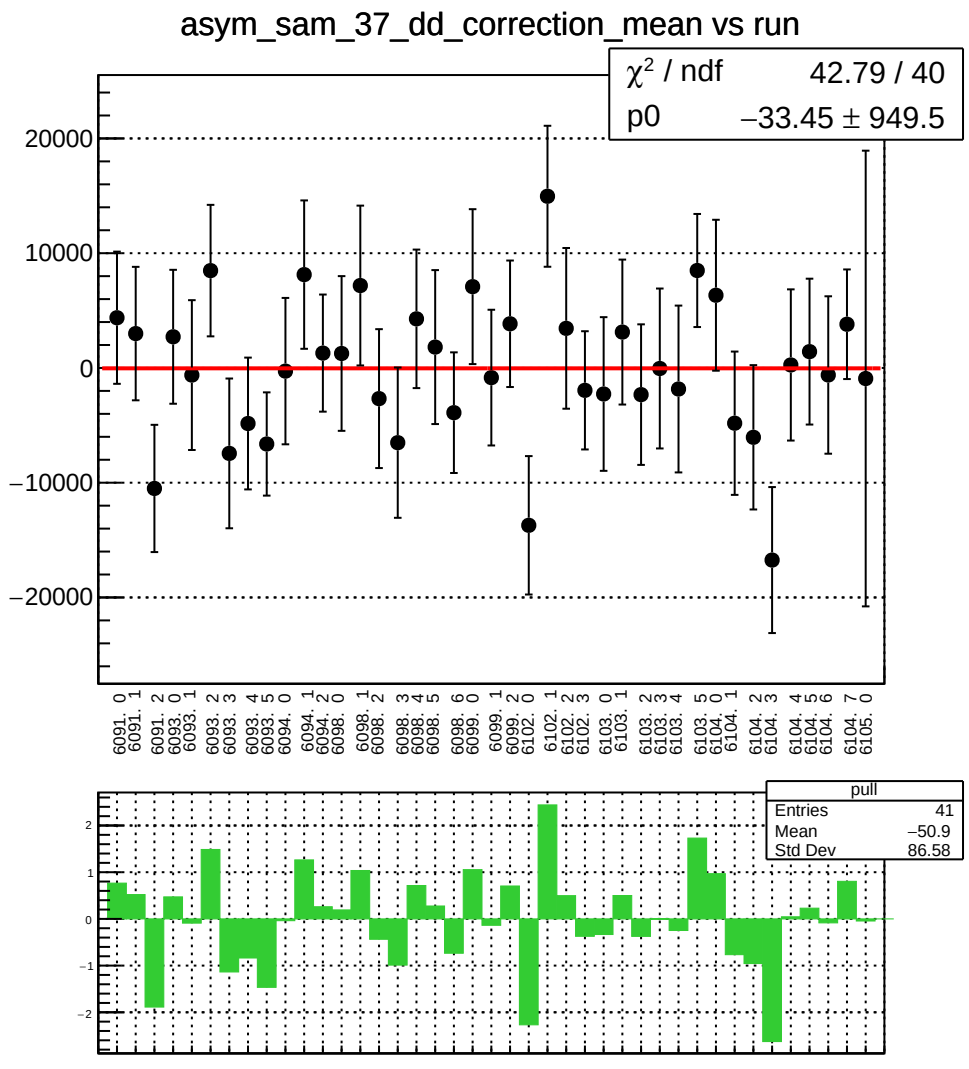

asym_sam_26_dd_mean vs run
χ² / ndf 31.26 / 40
p0 −1038 ± 3592
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 52.36
Std Dev 35.42
2
1
0
−1
−2

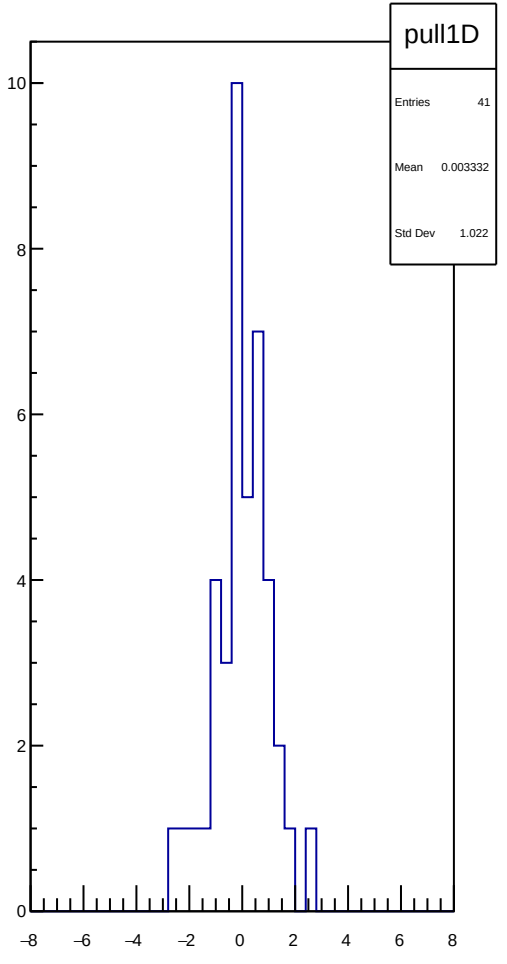

pull1D
Entries 41
Mean 0.02268
Std Dev 0.8729
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

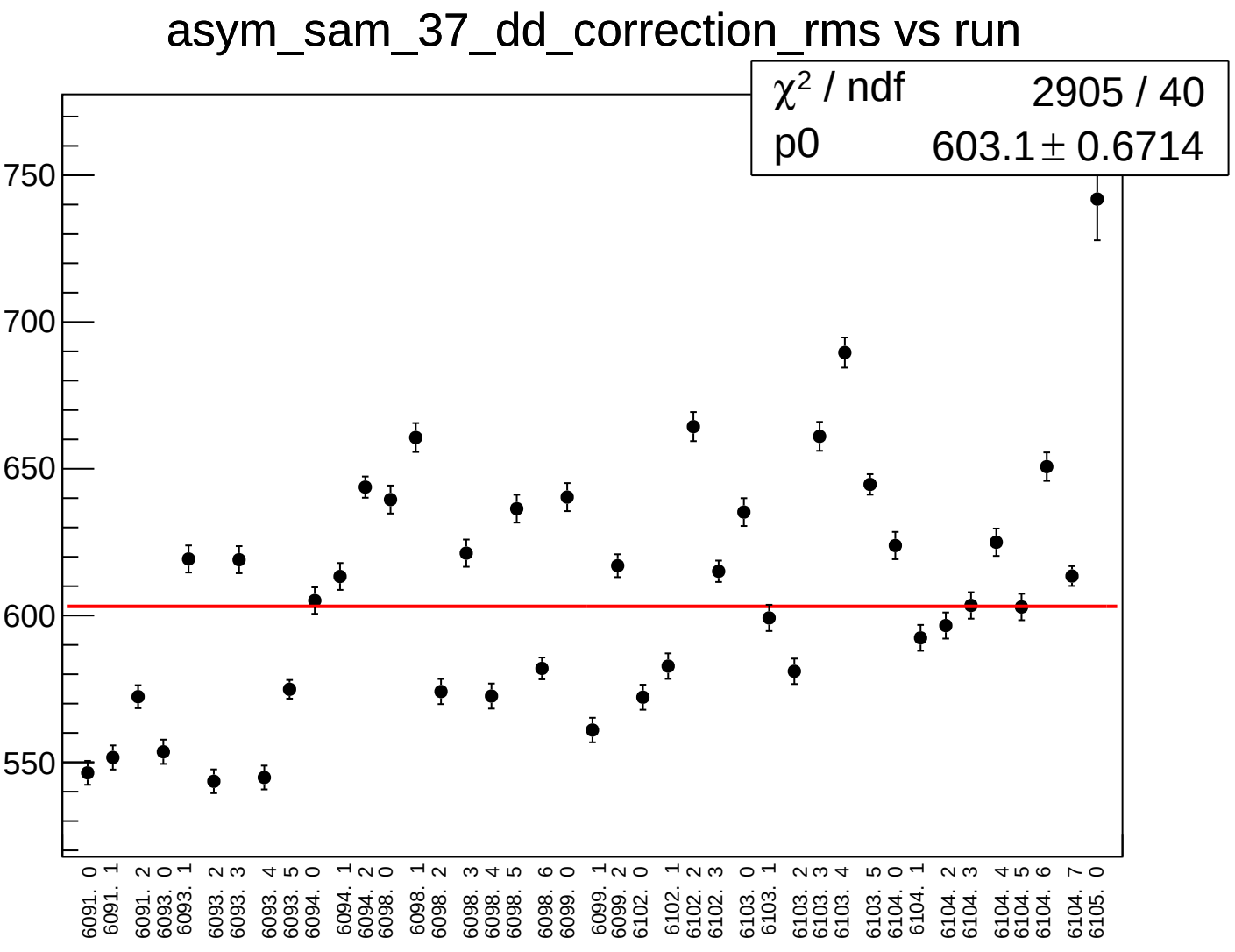

asym_sam_26_dd_rms vs run
χ² / ndf 3026 / 40
p0 2282 ± 2.54
2800
2700
2600
2500
2400
2300
2200
2100
2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

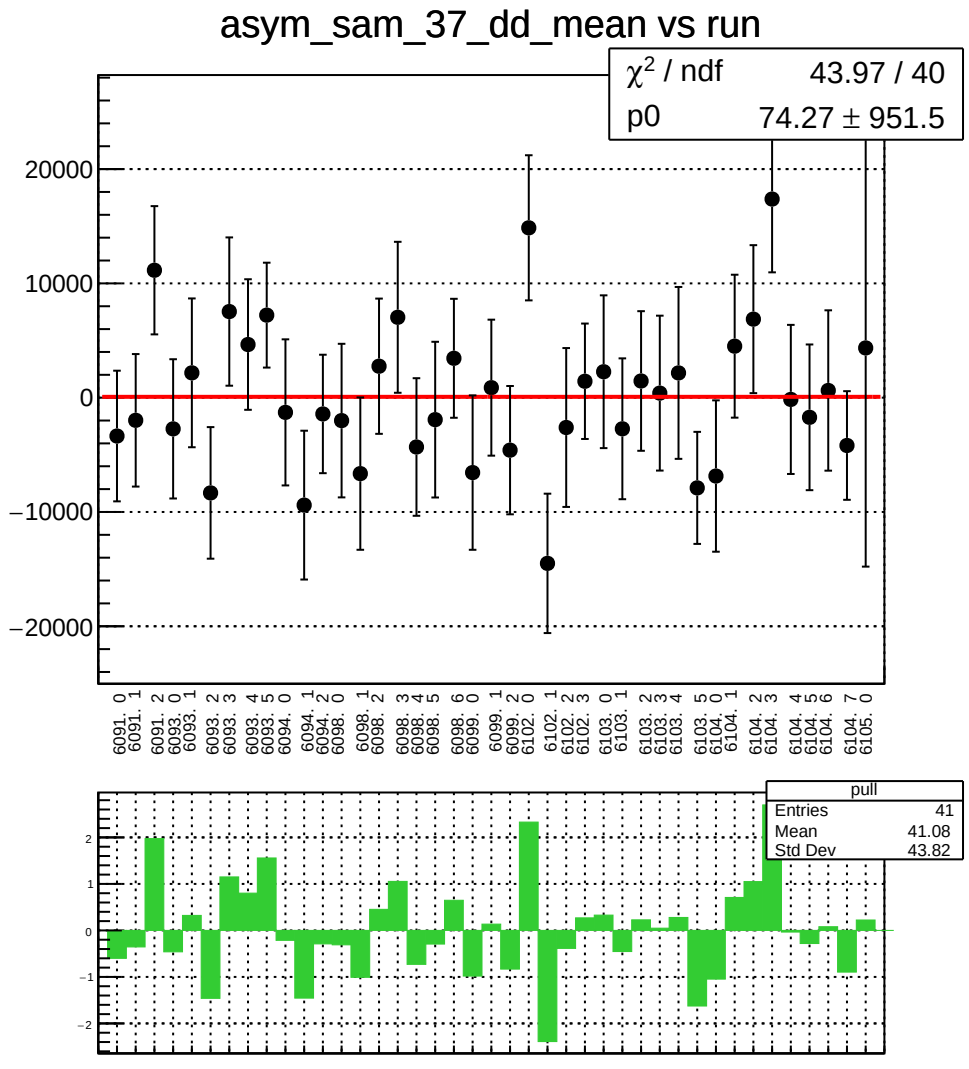

dit_asym_sam_37_dd_mean vs run
χ² / ndf 51.63 / 40
p0 73.27 ± 90.95
5000
4000
3000
2000
1000
0
−1000
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 6.589
Std Dev 22.99
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.06886
Std Dev 1.12
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

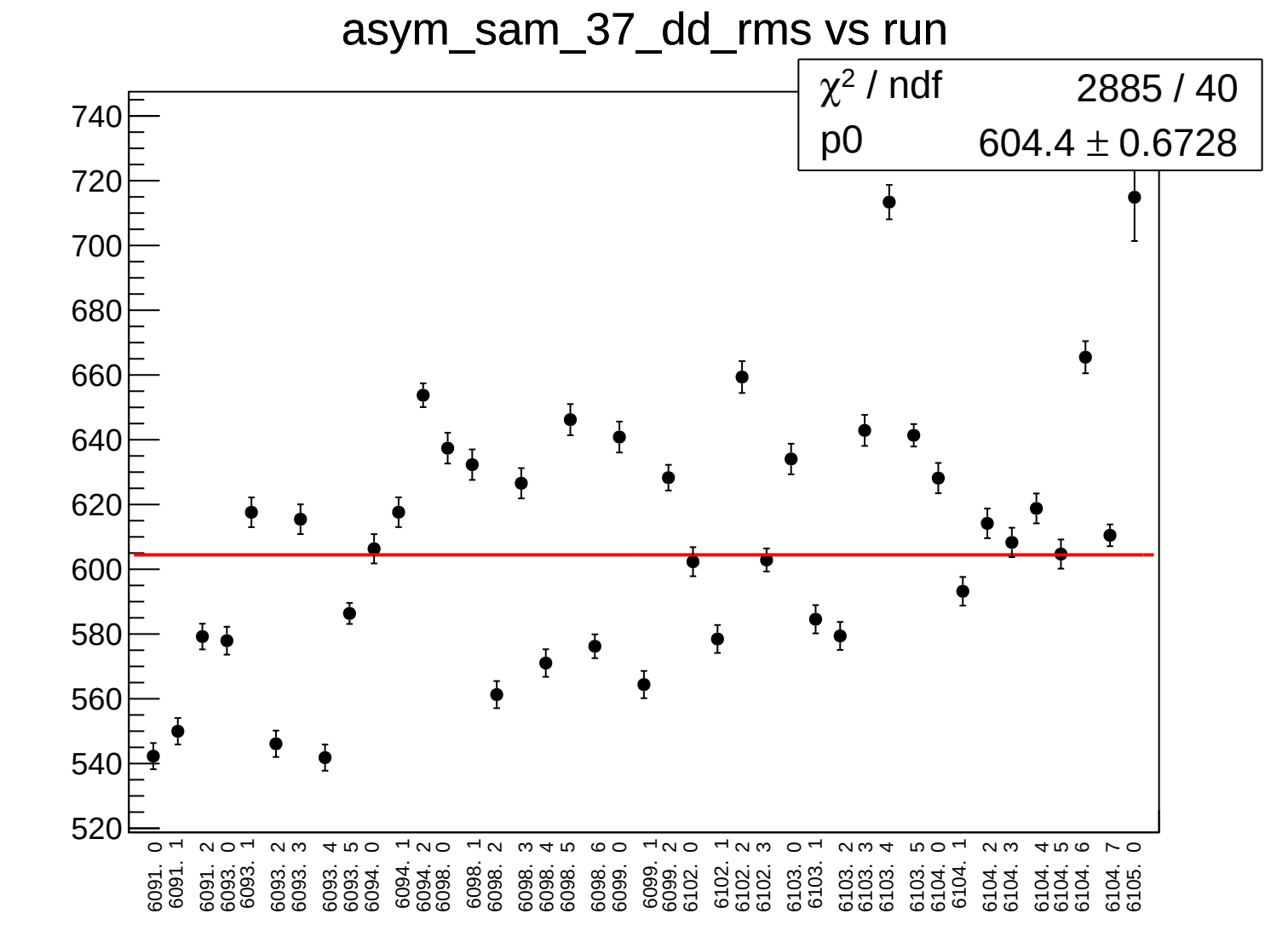

dit_asym_sam_37_dd_rms vs run
χ² / ndf 6342 / 40
p0 57.65 ± 0.06431
75
70
65
60
55
50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

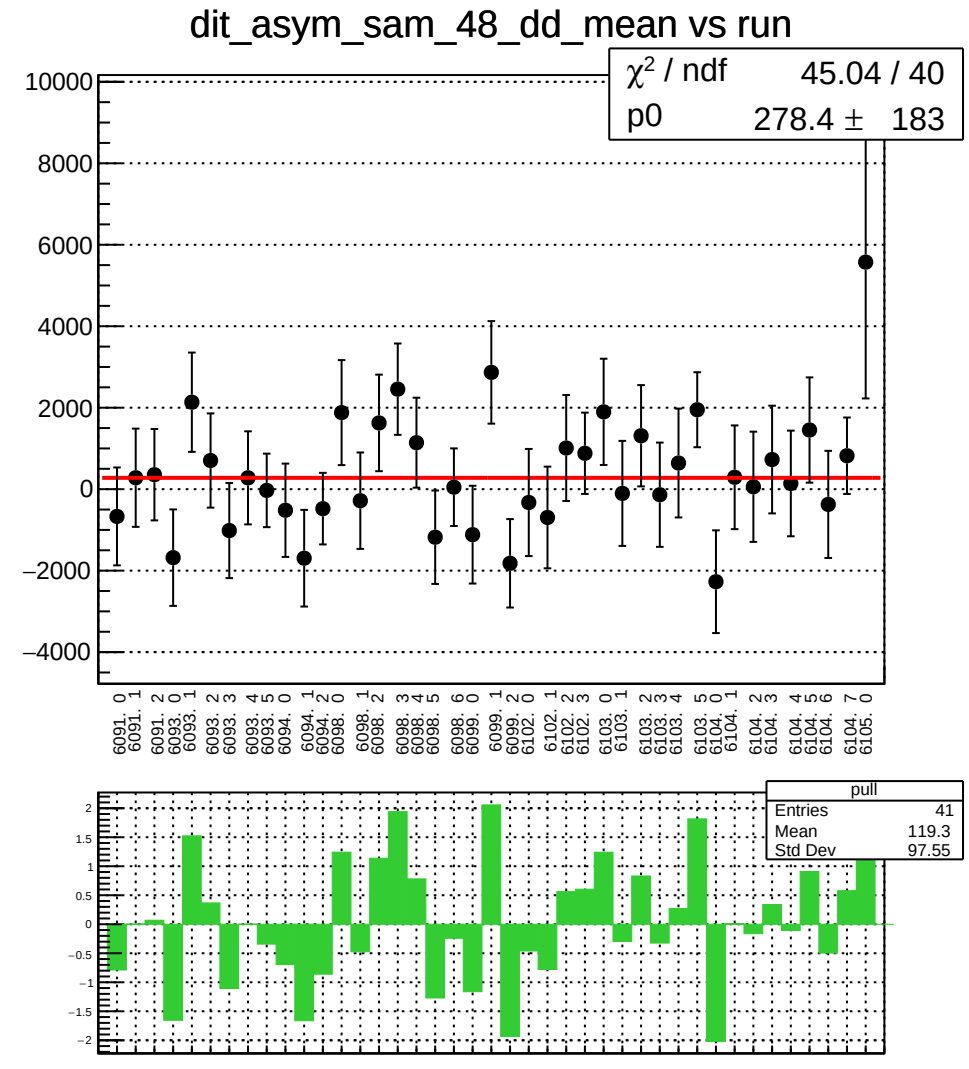

asym_sam_37_dd_correction_mean vs run
χ² / ndf 42.79 / 40
p0 −33.45 ± 949.5
20000
10000
0
−10000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −50.9
Std Dev 86.58
2
1
0
−1
−2

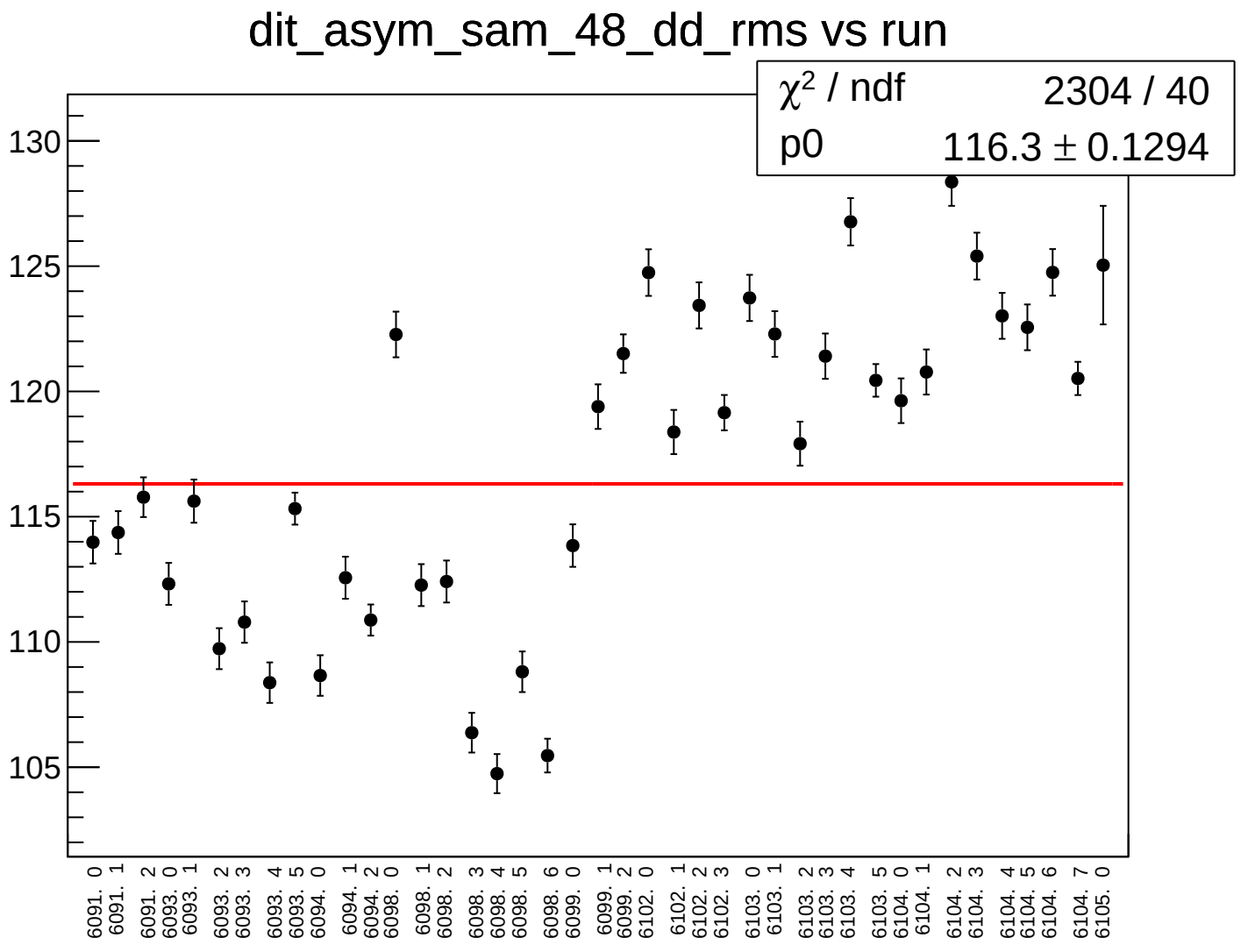

pull1D
Entries 41
Mean 0.003332
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

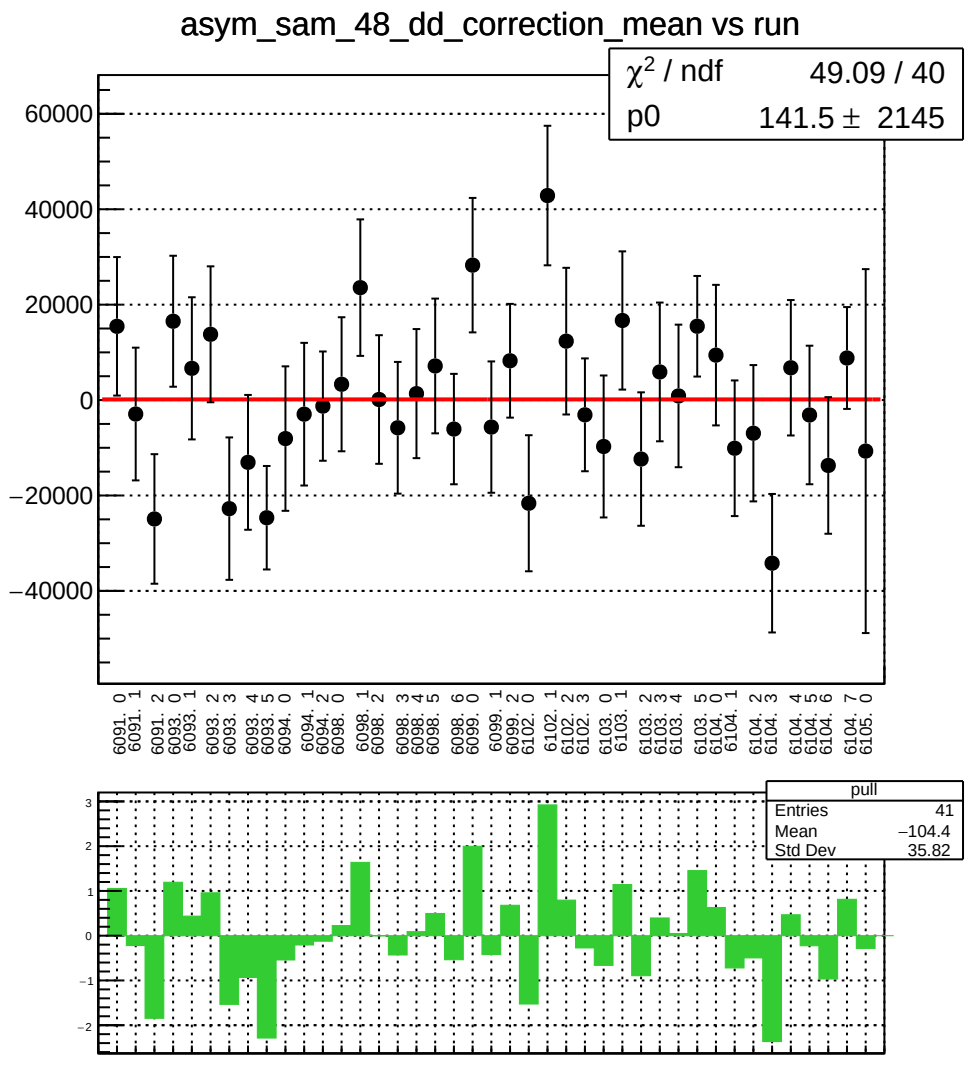

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2905 / 40
p0 603.1 ± 0.6714
750
700
650
600
550
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

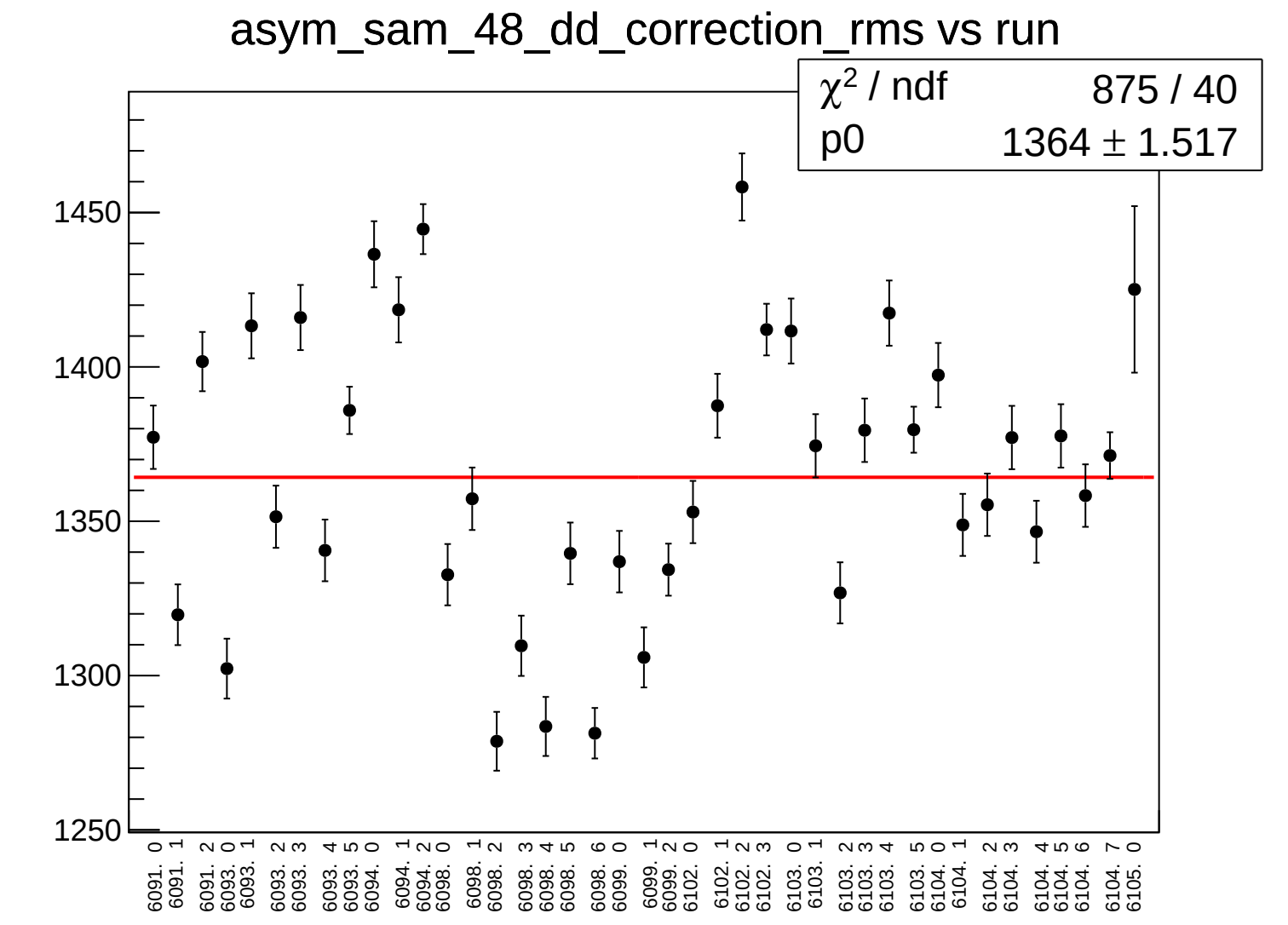

asym_sam_37_dd_mean vs run
χ² / ndf 43.97 / 40
p0 74.27 ± 951.5
20000
10000
0
−10000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 41.08
Std Dev 43.82
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.005763
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

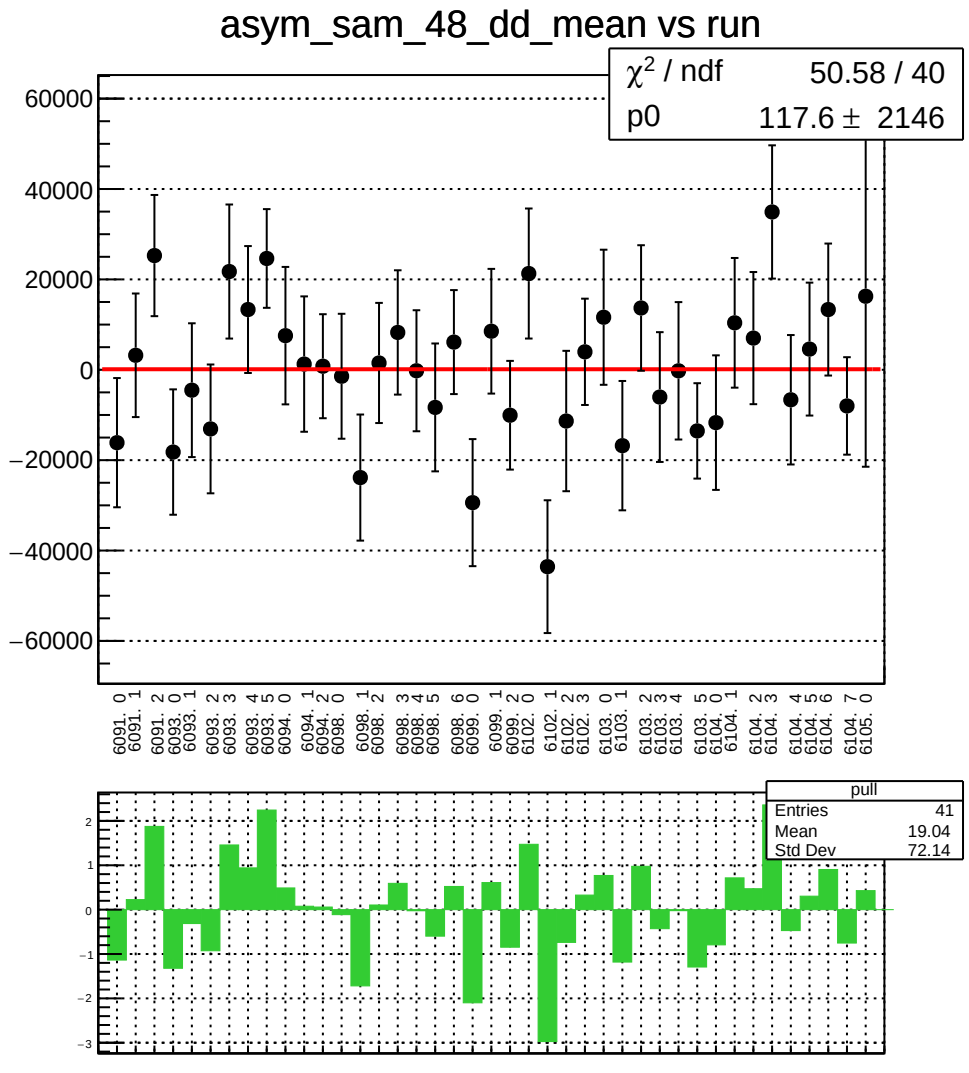

asym_sam_37_dd_rms vs run
χ² / ndf 2885 / 40
p0 604.4 ± 0.6728
740
720
700
680
660
640
620
600
580
560
540
520
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

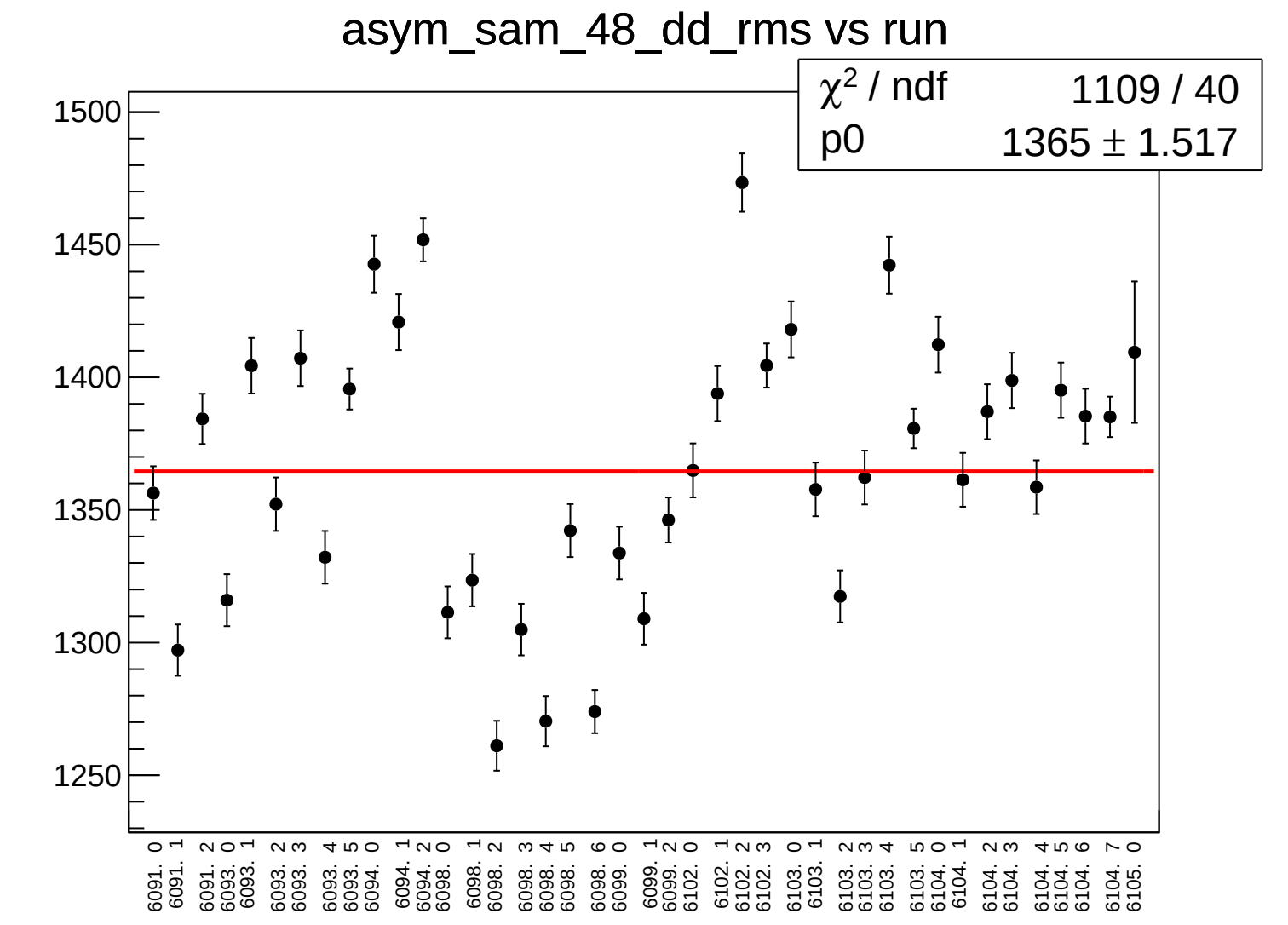

dit_asym_sam_48_dd_mean vs run
χ² / ndf 45.04 / 40
p0 278.4 ± 183
10000
8000
6000
4000
2000
0
−2000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 119.3
Std Dev 97.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02508
Std Dev 1.048
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

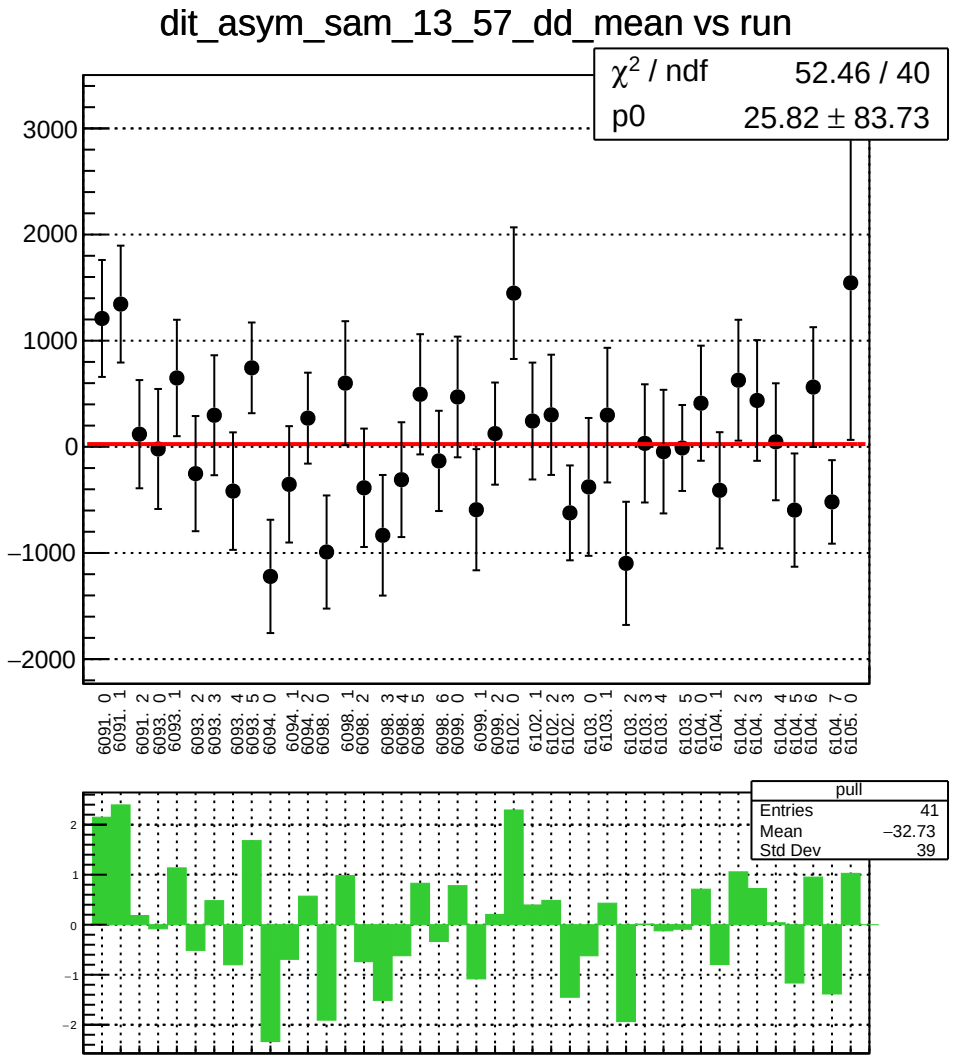

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2304 / 40
p0 116.3 ± 0.1294
130
125
120
115
110
105
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

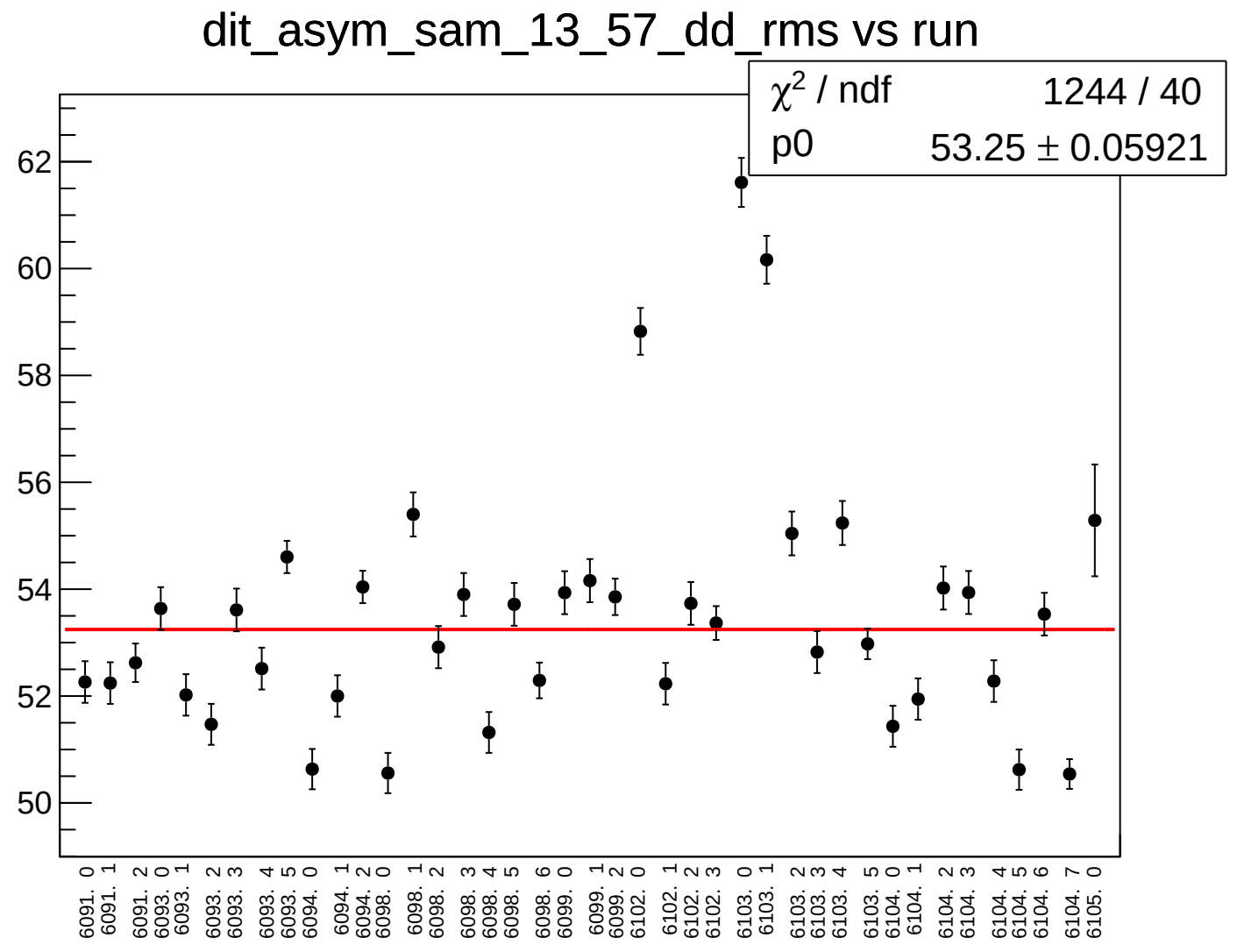

asym_sam_48_dd_correction_mean vs run
χ² / ndf 49.09 / 40
p0 141.5 ± 2145
60000
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −104.4
Std Dev 35.82
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.001537
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

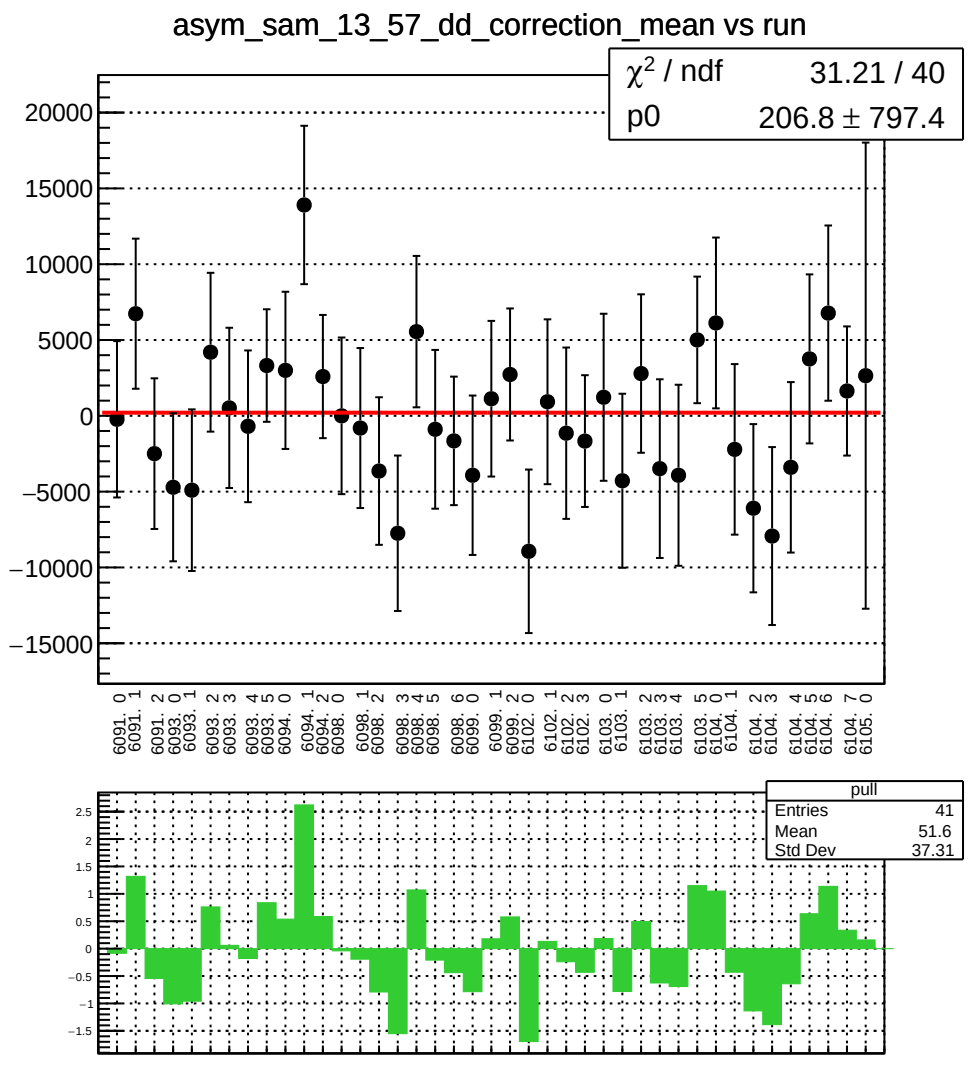

asym_sam_48_dd_correction_rms vs run
χ² / ndf 875 / 40
p0 1364 ± 1.517
1450
1400
1350
1300
1250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

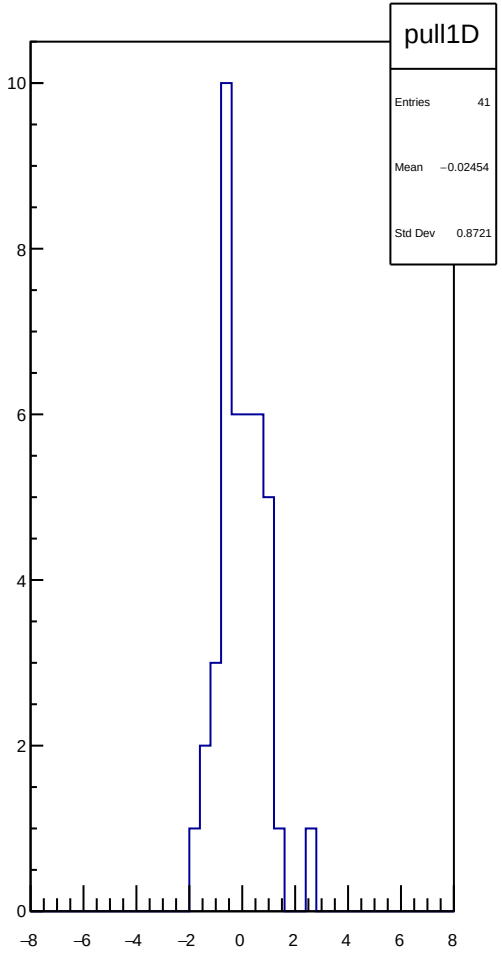

asym_sam_48_dd_mean vs run
χ² / ndf 50.58 / 40
p0 117.6 ± 2146
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 19.04
Std Dev 72.14
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.004351
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

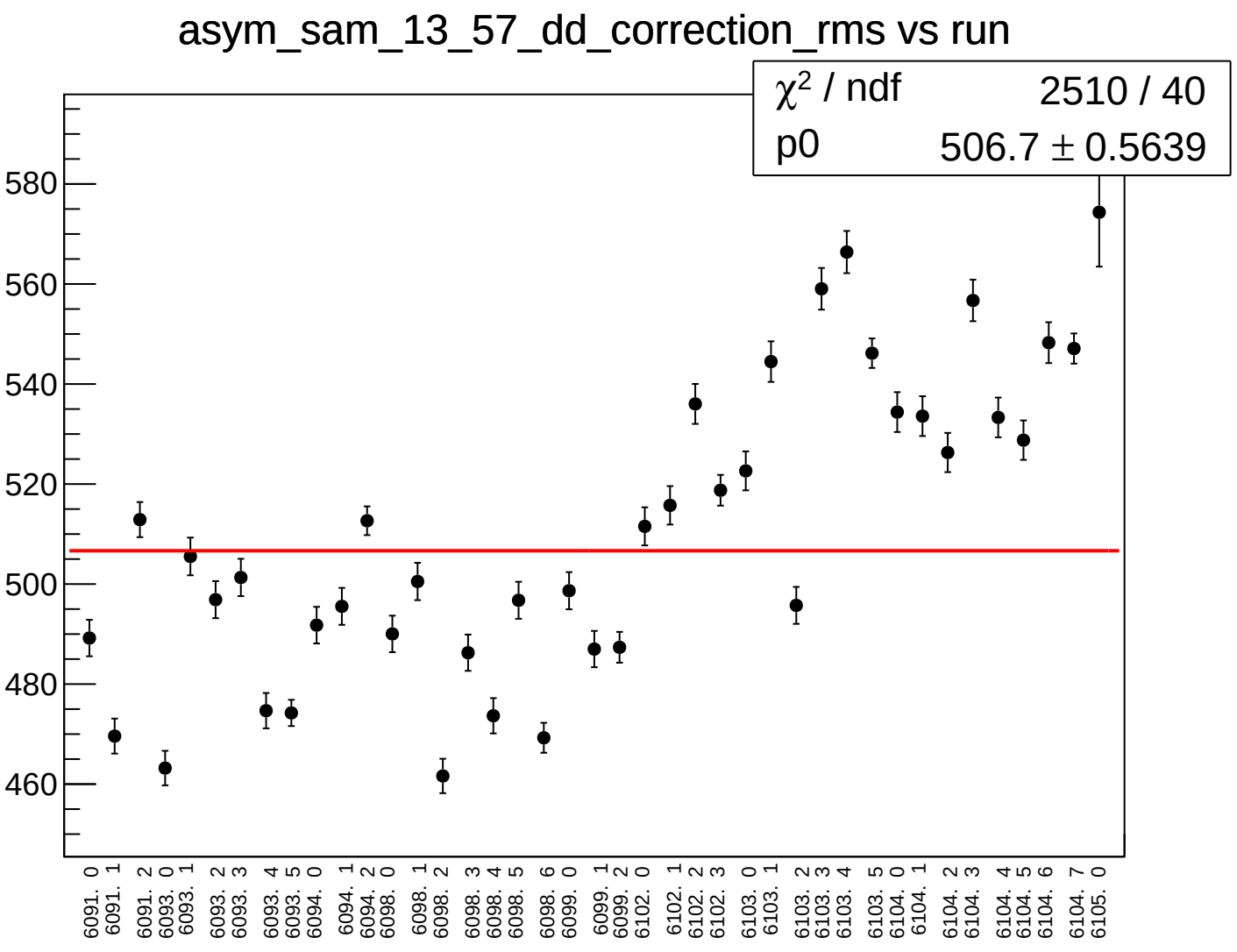

asym_sam_48_dd_rms vs run
χ² / ndf 1109 / 40
p0 1365 ± 1.517
1500
1450
1400
1350
1300
1250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

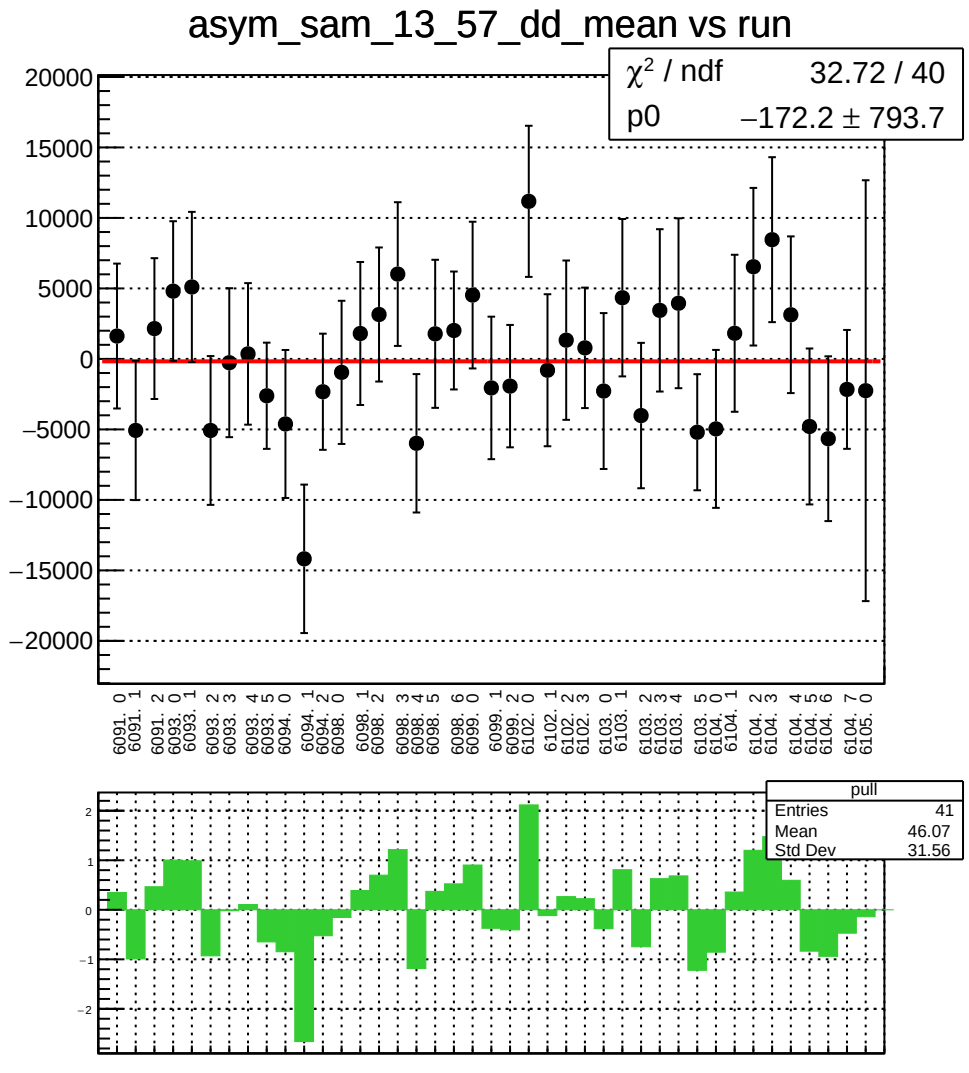

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 52.46 / 40
p0 25.82 ± 83.73
3000
2000
1000
0
−1000
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −32.73
Std Dev 39
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.03266
Std Dev 1.131
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

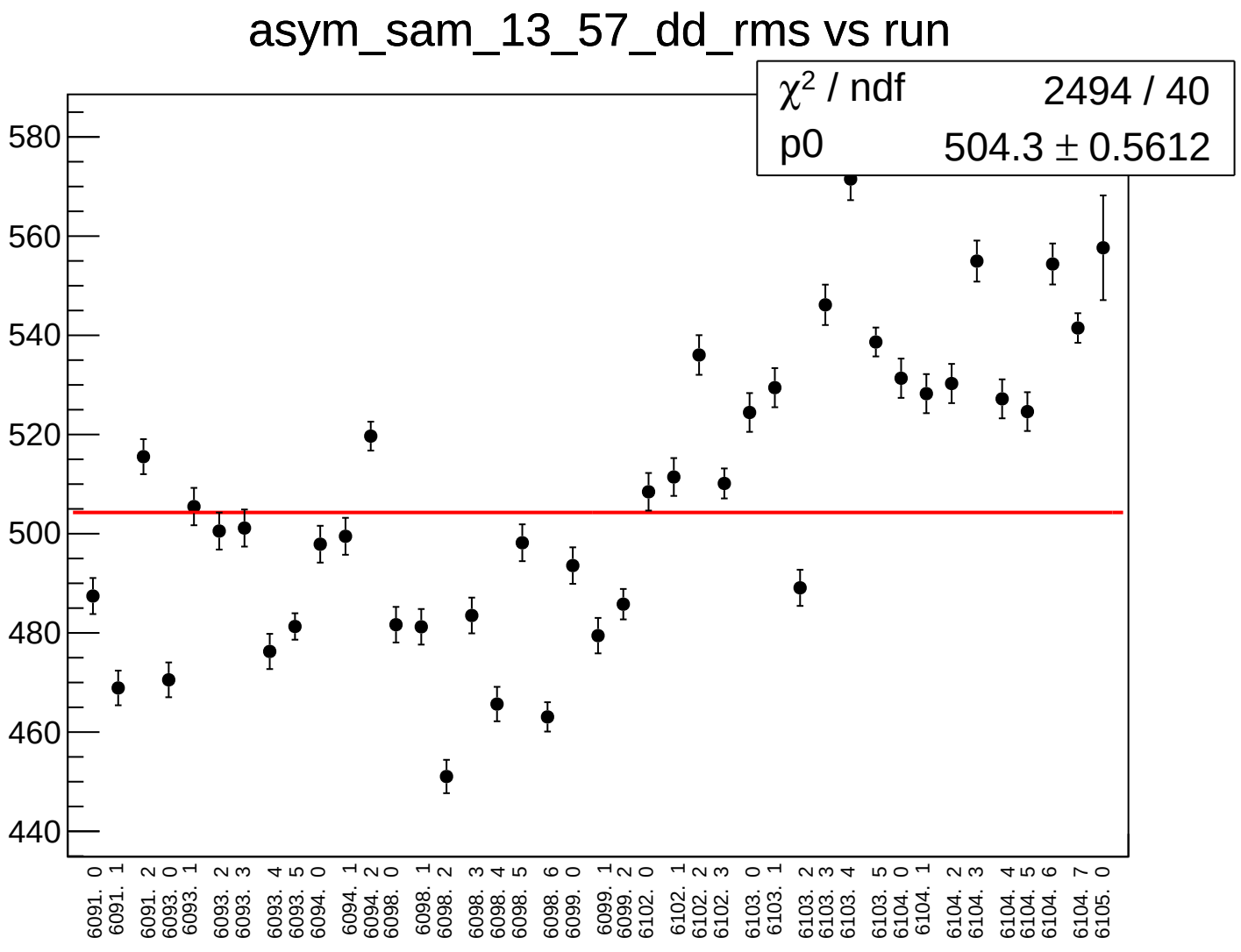

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1244 / 40
p0 53.25 ± 0.05921
62
60
58
56
54
52
50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

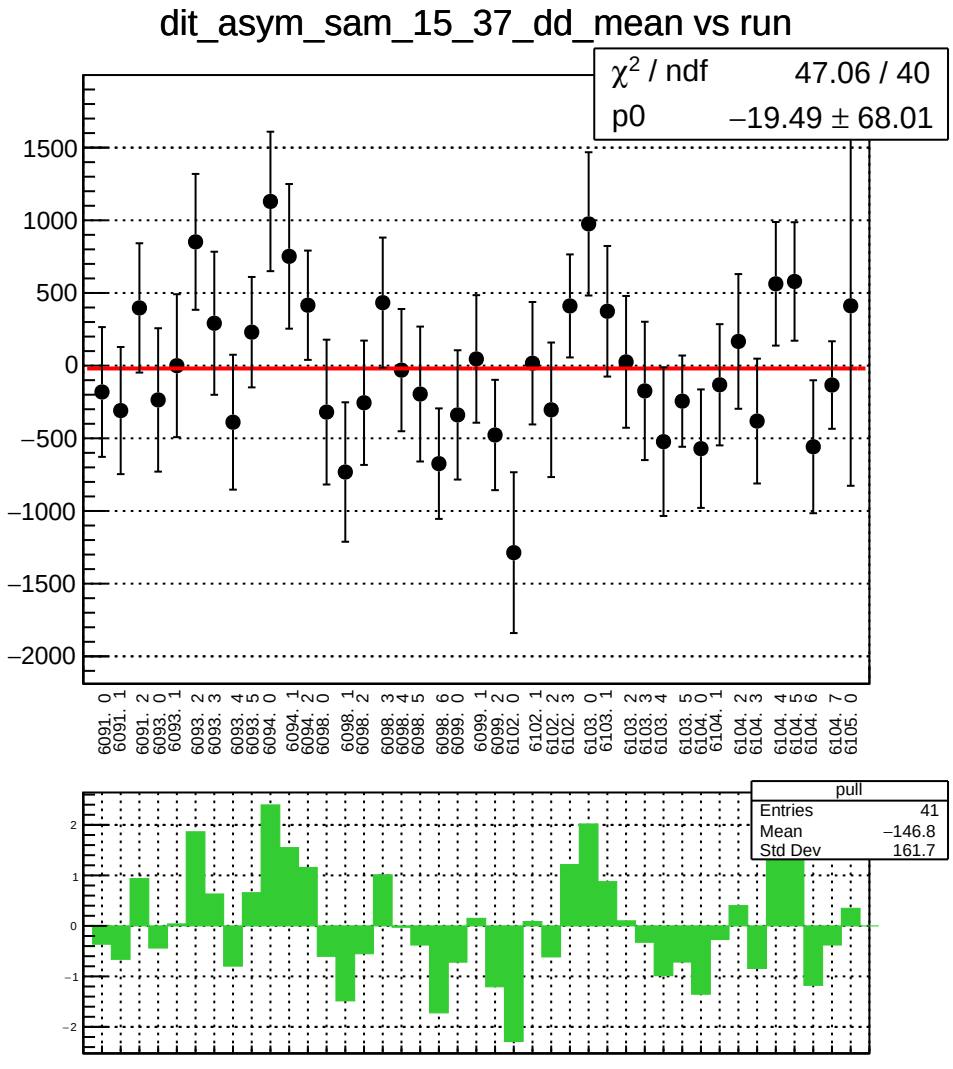

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 31.21 / 40
p0 206.8 ± 797.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 51.6
Std Dev 37.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

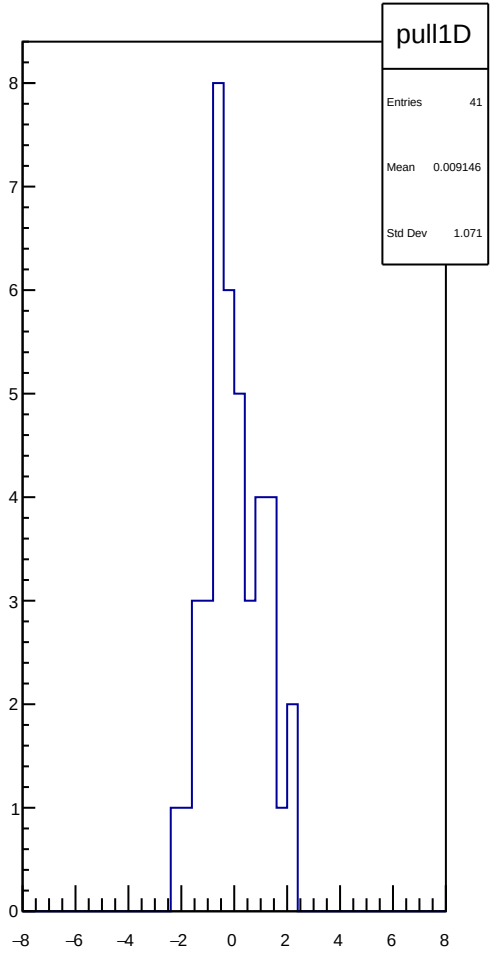

pull1D
Entries 41
Mean −0.02454
Std Dev 0.8721
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

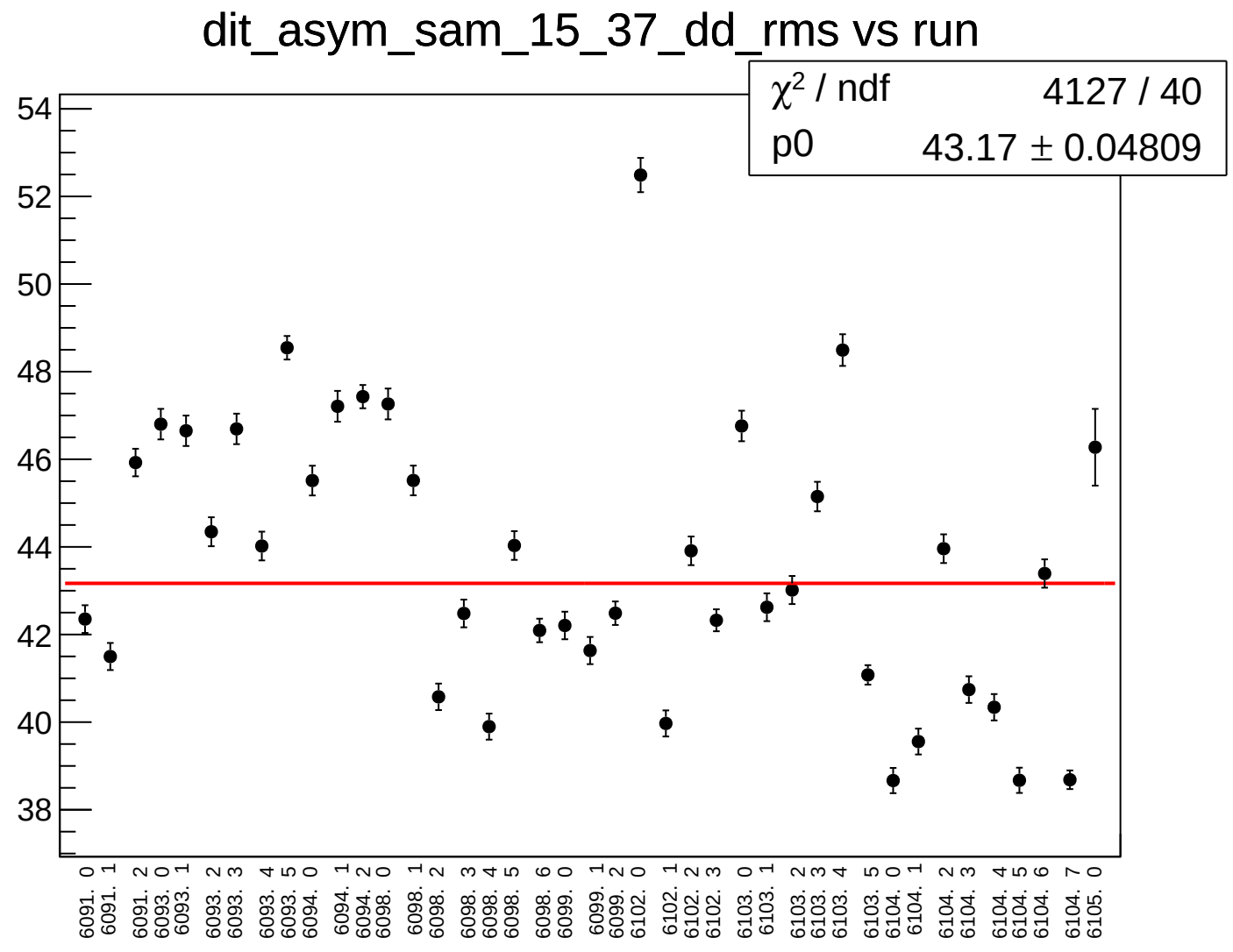

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2510 / 40
p0 506.7 ± 0.5639
580
560
540
520
500
480
460
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

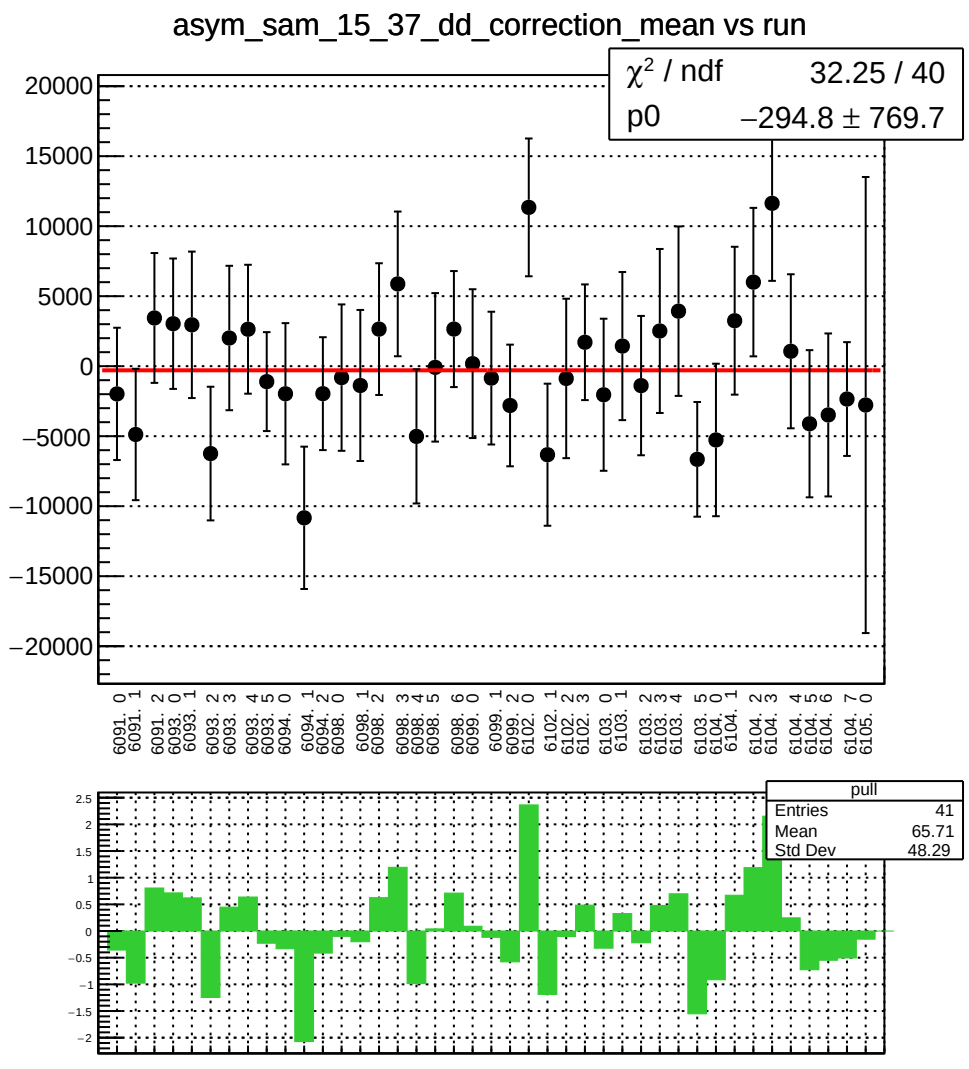

asym_sam_13_57_dd_mean vs run
χ² / ndf 32.72 / 40
p0 −172.2 ± 793.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 46.07
Std Dev 31.56
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02273
Std Dev 0.8931
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

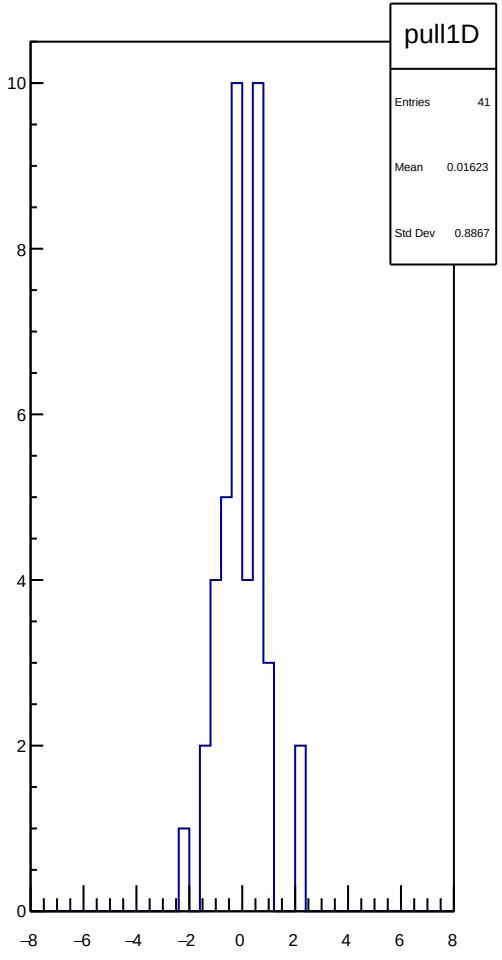

asym_sam_13_57_dd_rms vs run
χ² / ndf 2494 / 40
p0 504.3 ± 0.5612
580
560
540
520
500
480
460
440
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

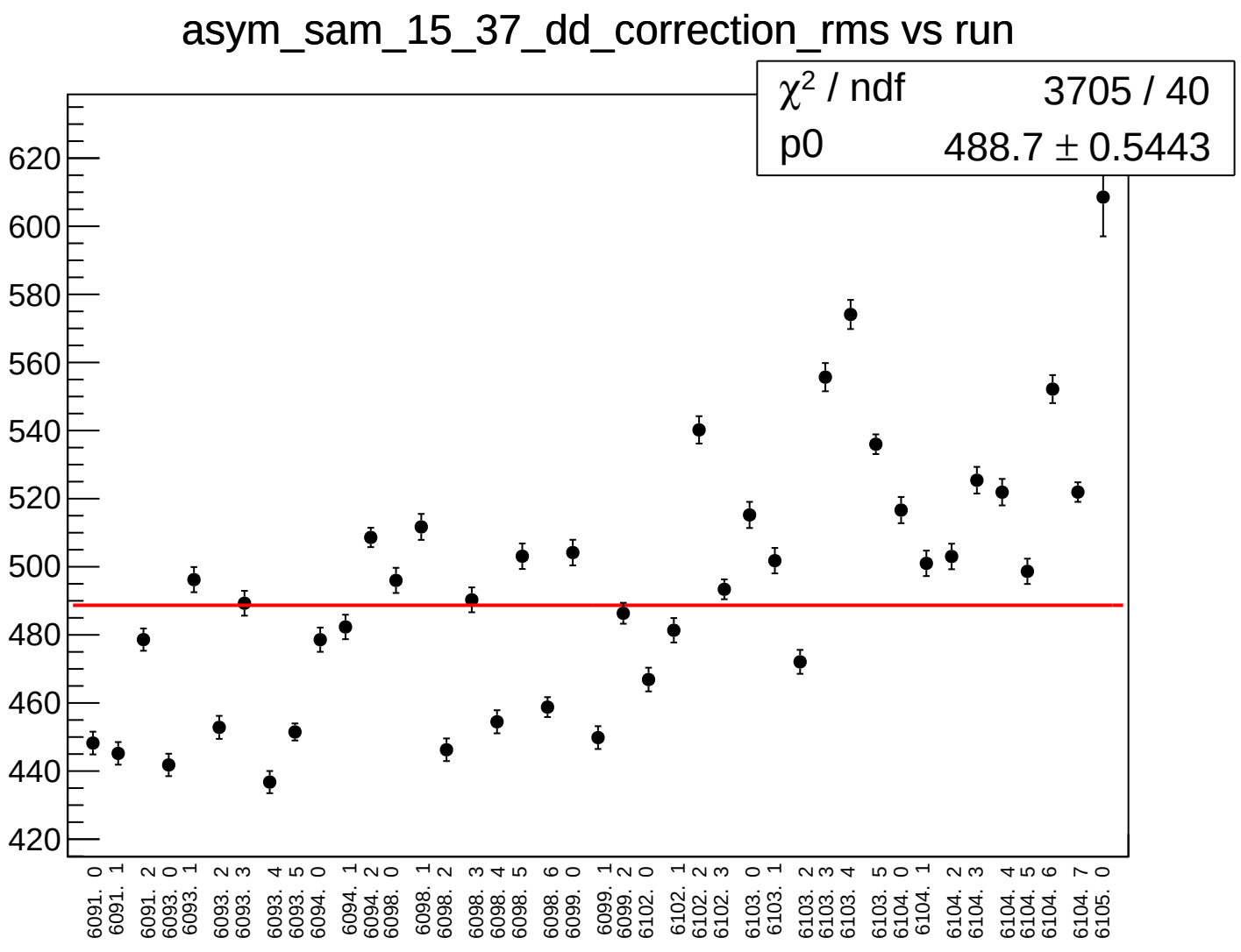

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 47.06 / 40
p0 −19.49 ± 68.01
1500
1000
500
0
−500
−1000
−1500
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −146.8
Std Dev 161.7
2
1
0
−1
−2

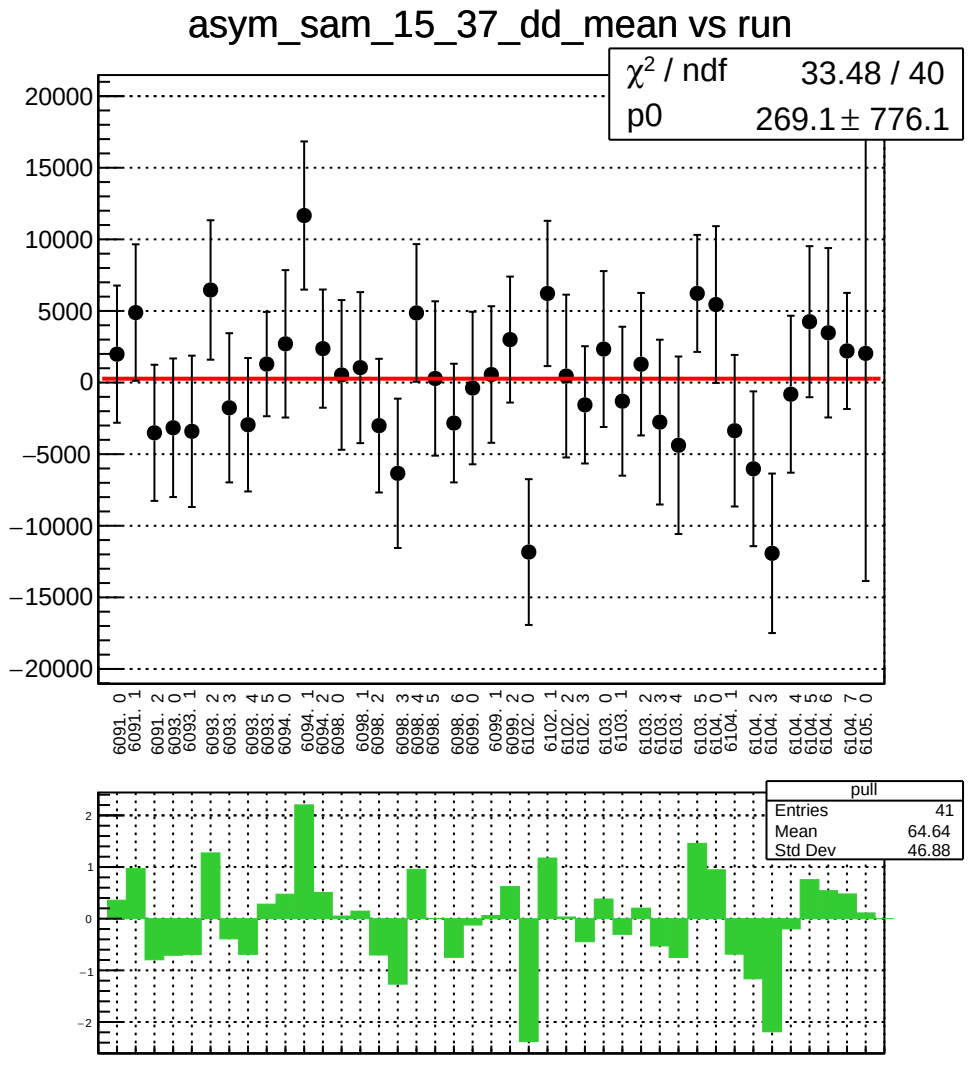

pull1D
Entries 41
Mean 0.009146
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

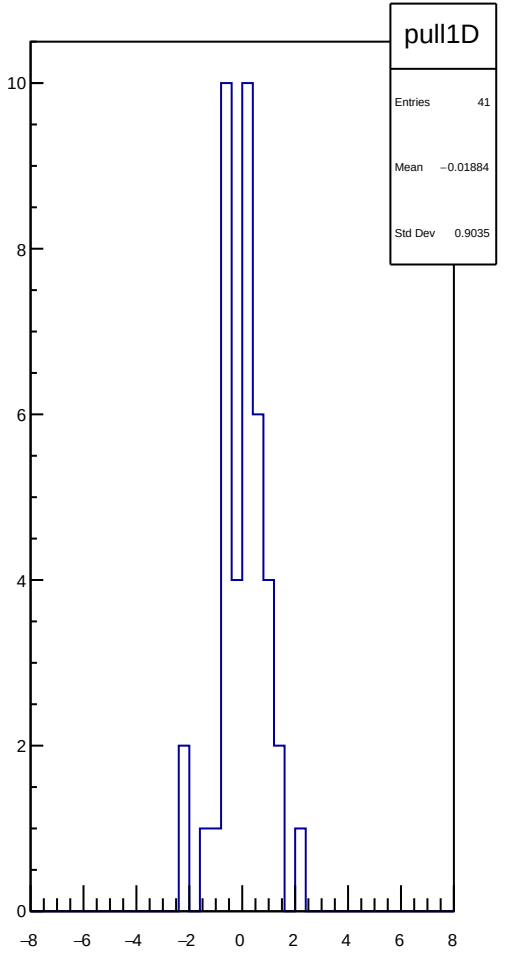

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4127 / 40
p0 43.17 ± 0.04809
54
52
50
48
46
44
42
40
38
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

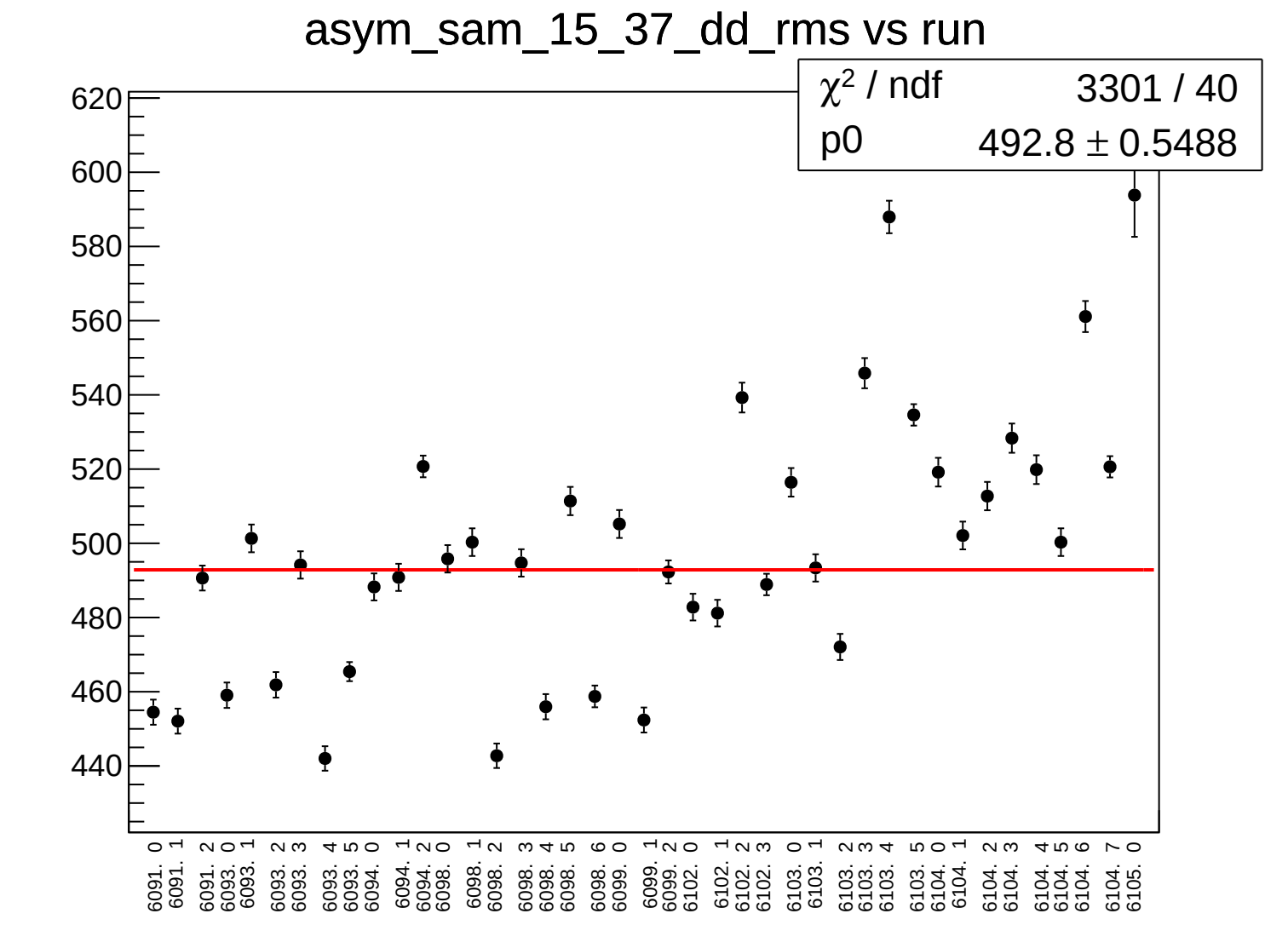

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 32.25 / 40
p0 −294.8 ± 769.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 65.71
Std Dev 48.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

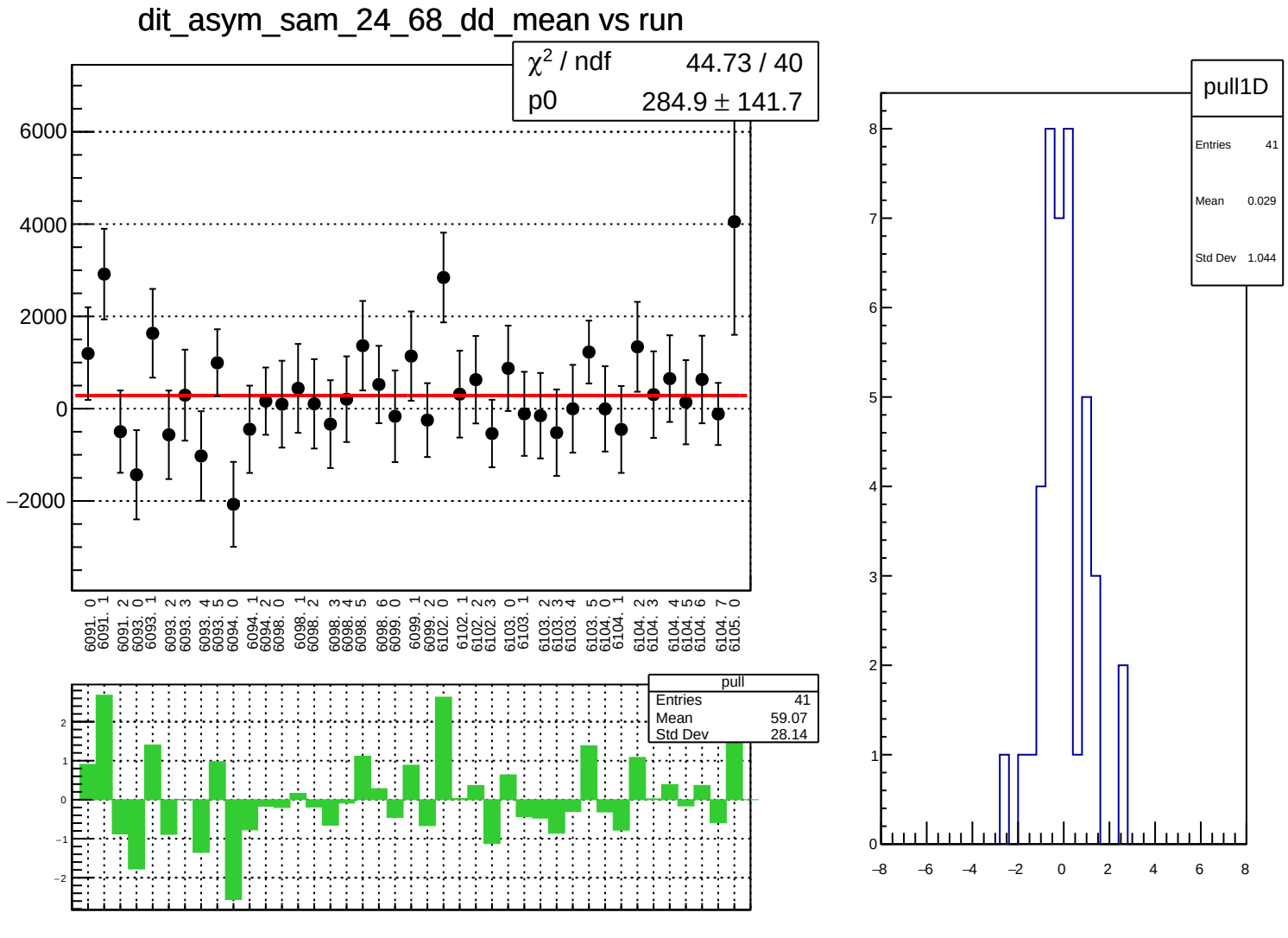

pull1D
Entries 41
Mean 0.01623
Std Dev 0.8867
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

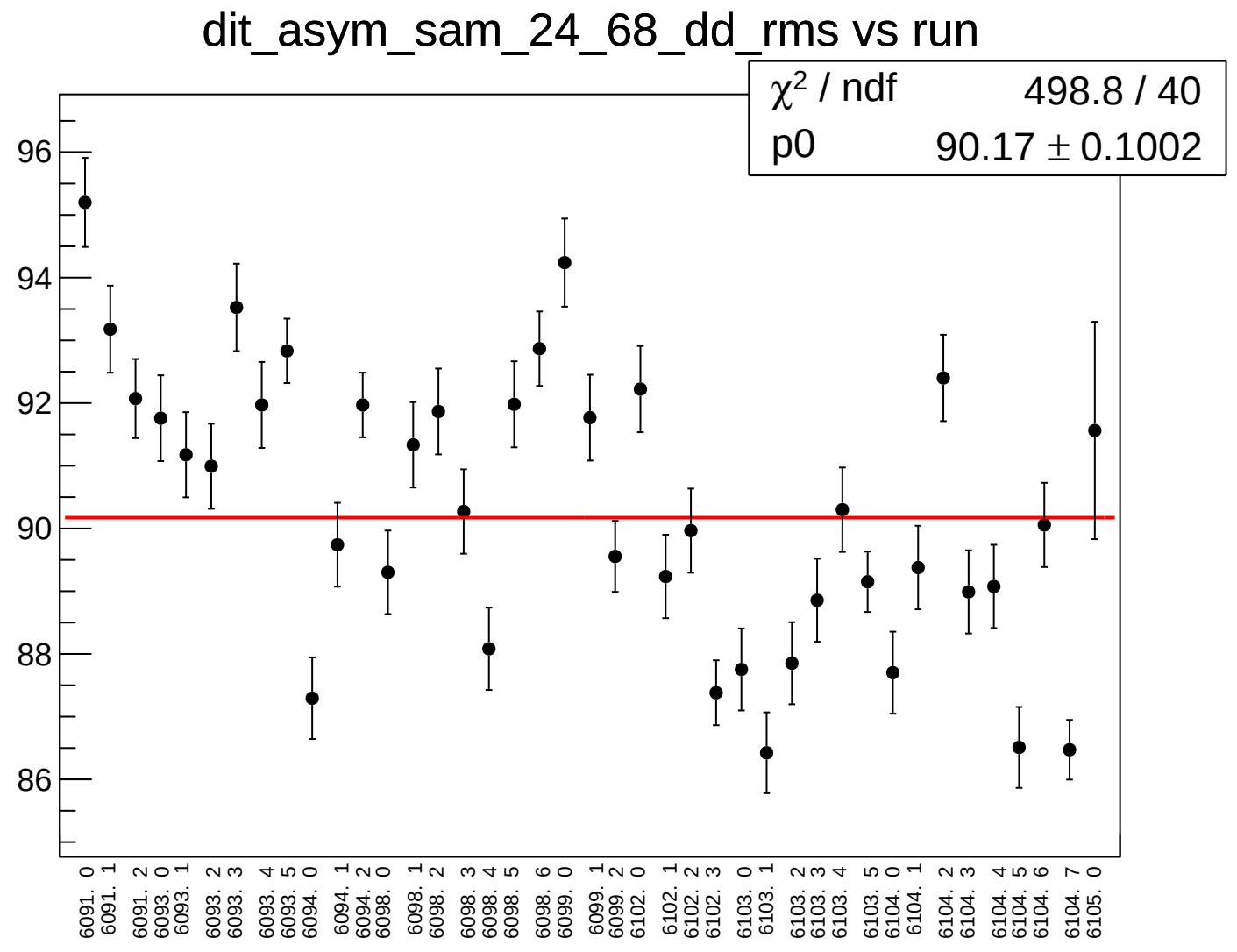

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3705 / 40
p0 488.7 ± 0.5443
620
600
580
560
540
520
500
480
460
440
420
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

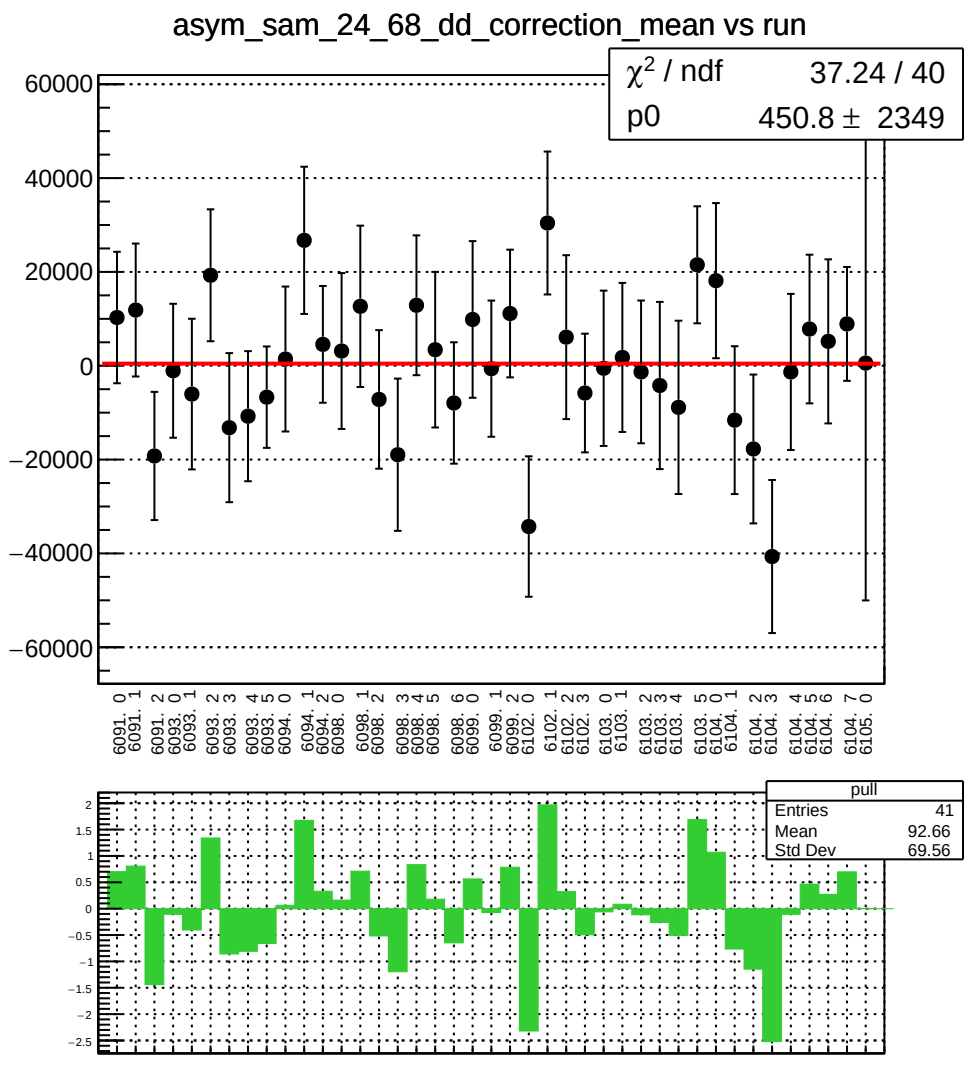

asym_sam_15_37_dd_mean vs run
χ² / ndf 33.48 / 40
p0 269.1 ± 776.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 64.64
Std Dev 46.88
2
1
0
−1
−2

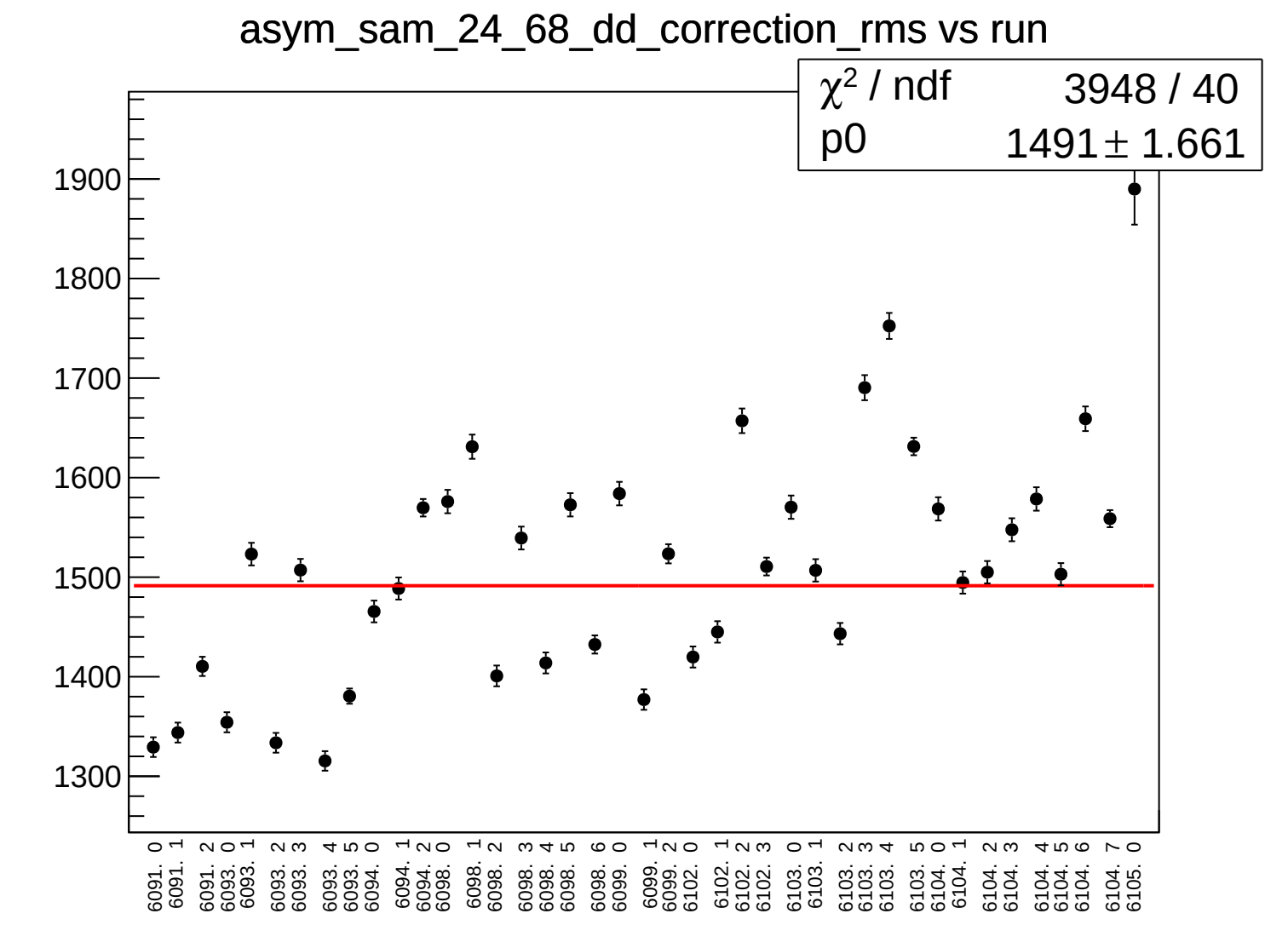

pull1D
Entries 41
Mean −0.01884
Std Dev 0.9035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

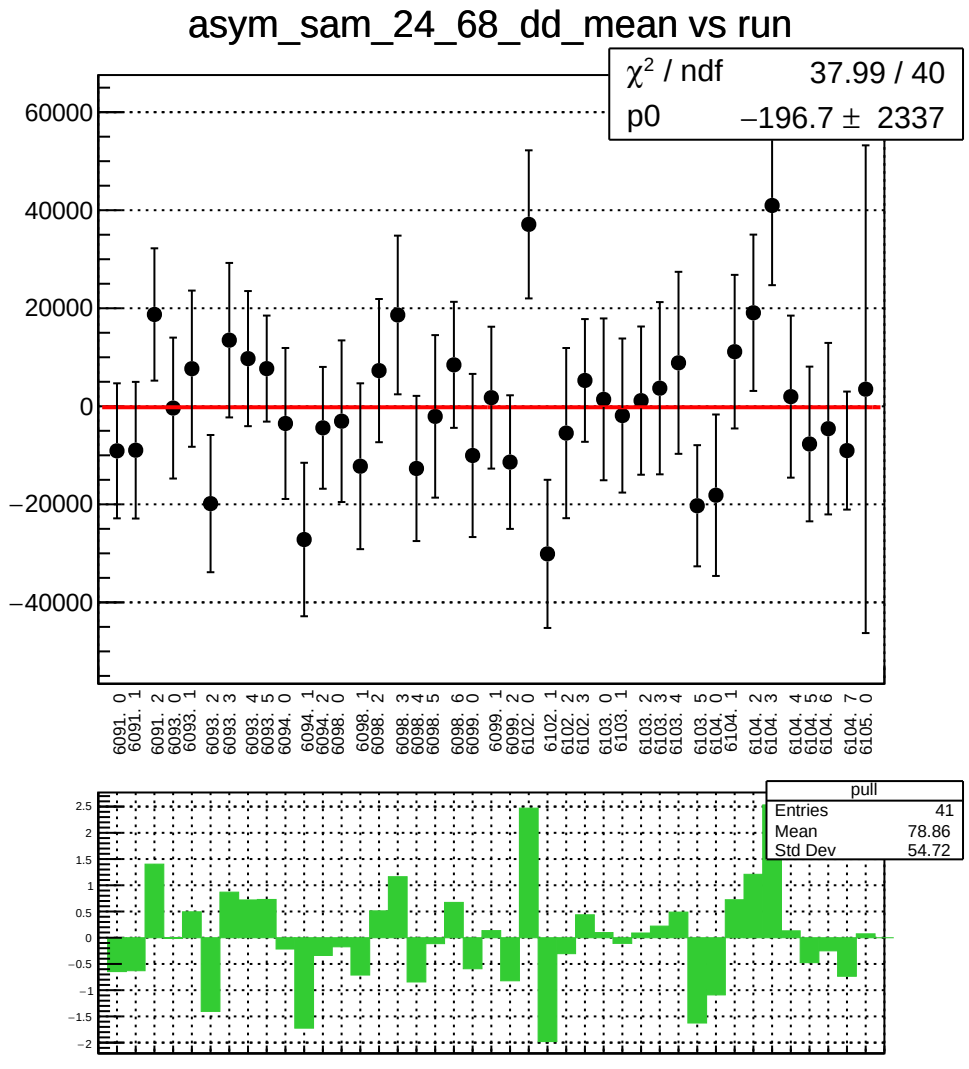

asym_sam_15_37_dd_rms vs run
χ² / ndf 3301 / 40
p0 492.8 ± 0.5488
620
600
580
560
540
520
500
480
460
440
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

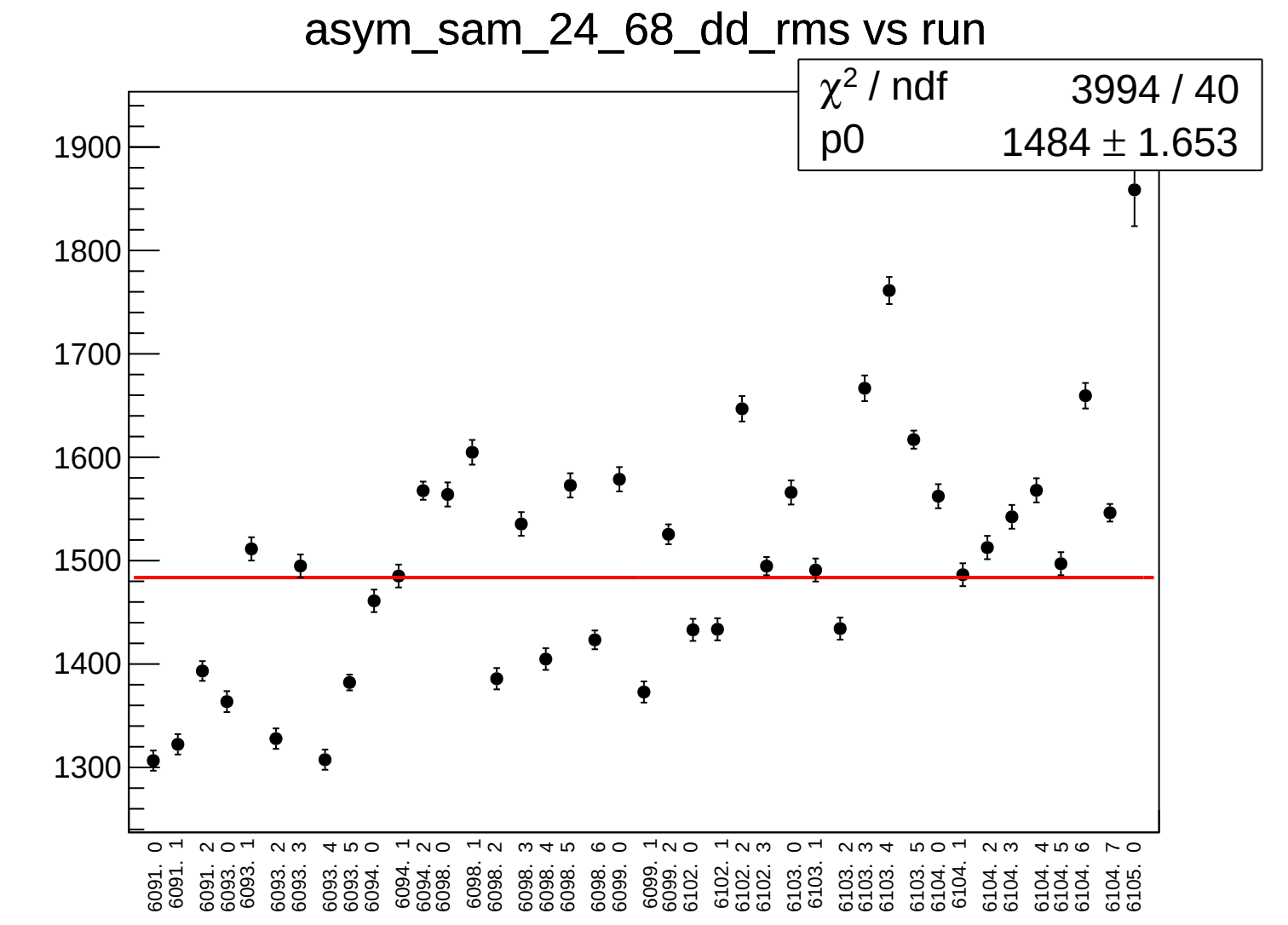

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 44.73 / 40
p0 284.9 ± 141.7
6000
4000
2000
0
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 59.07
Std Dev 28.14
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.029
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

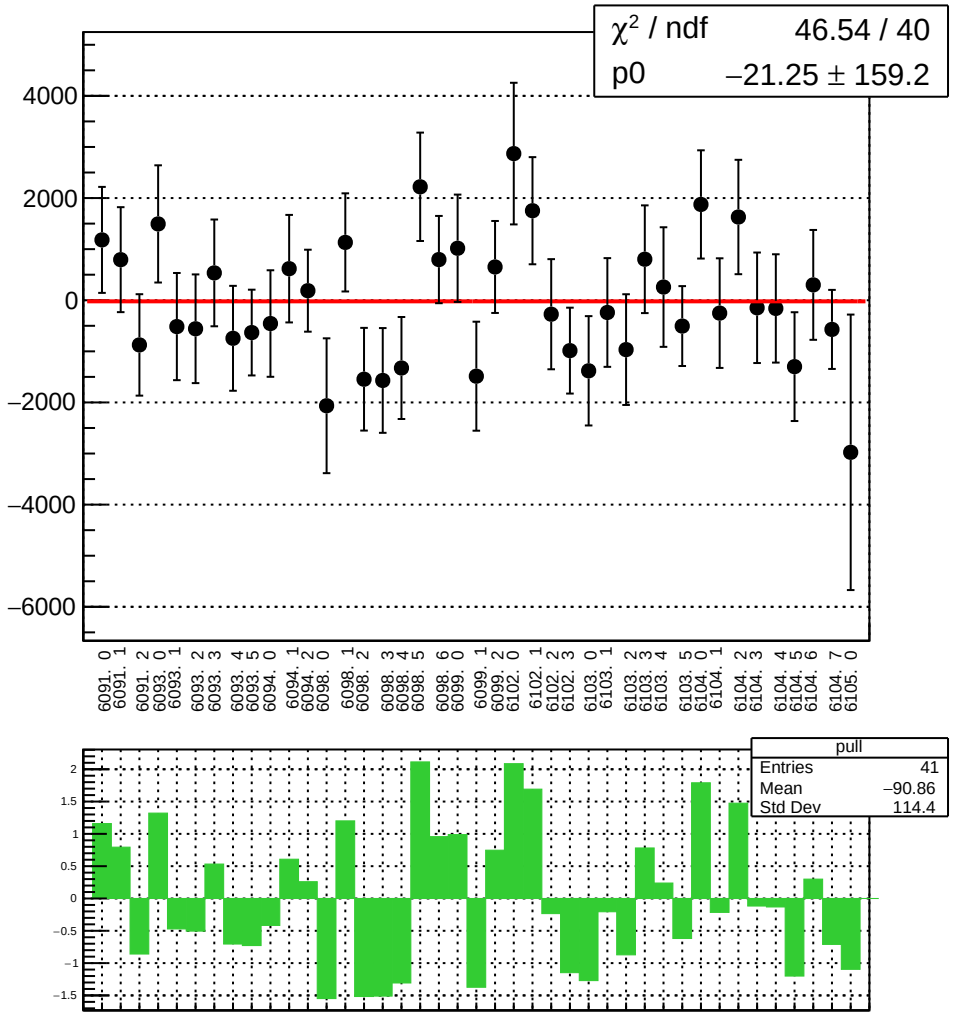

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 498.8 / 40
p0 90.17 ± 0.1002
96
94
92
90
88
86
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

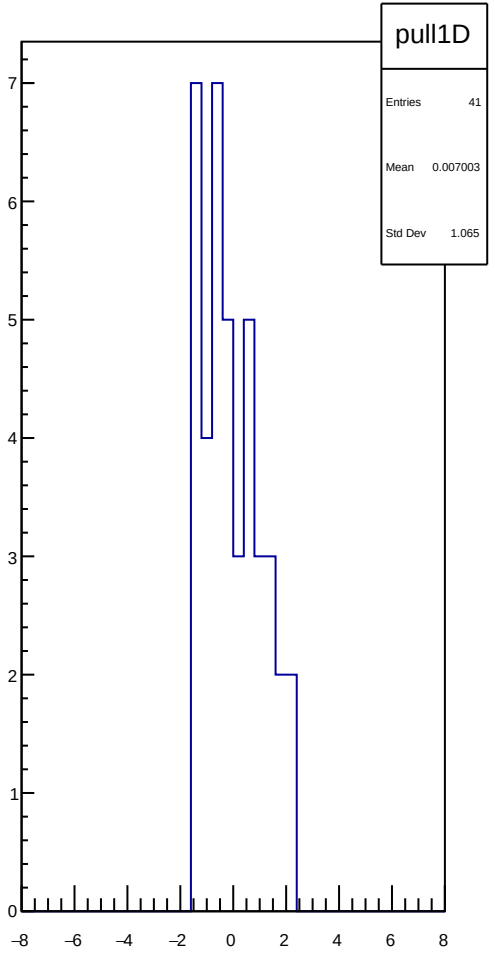

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 37.24 / 40
p0 450.8 ± 2349
60000
40000
20000
0
−20000
−40000
−60000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 92.66
Std Dev 69.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.007006
Std Dev 0.953
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

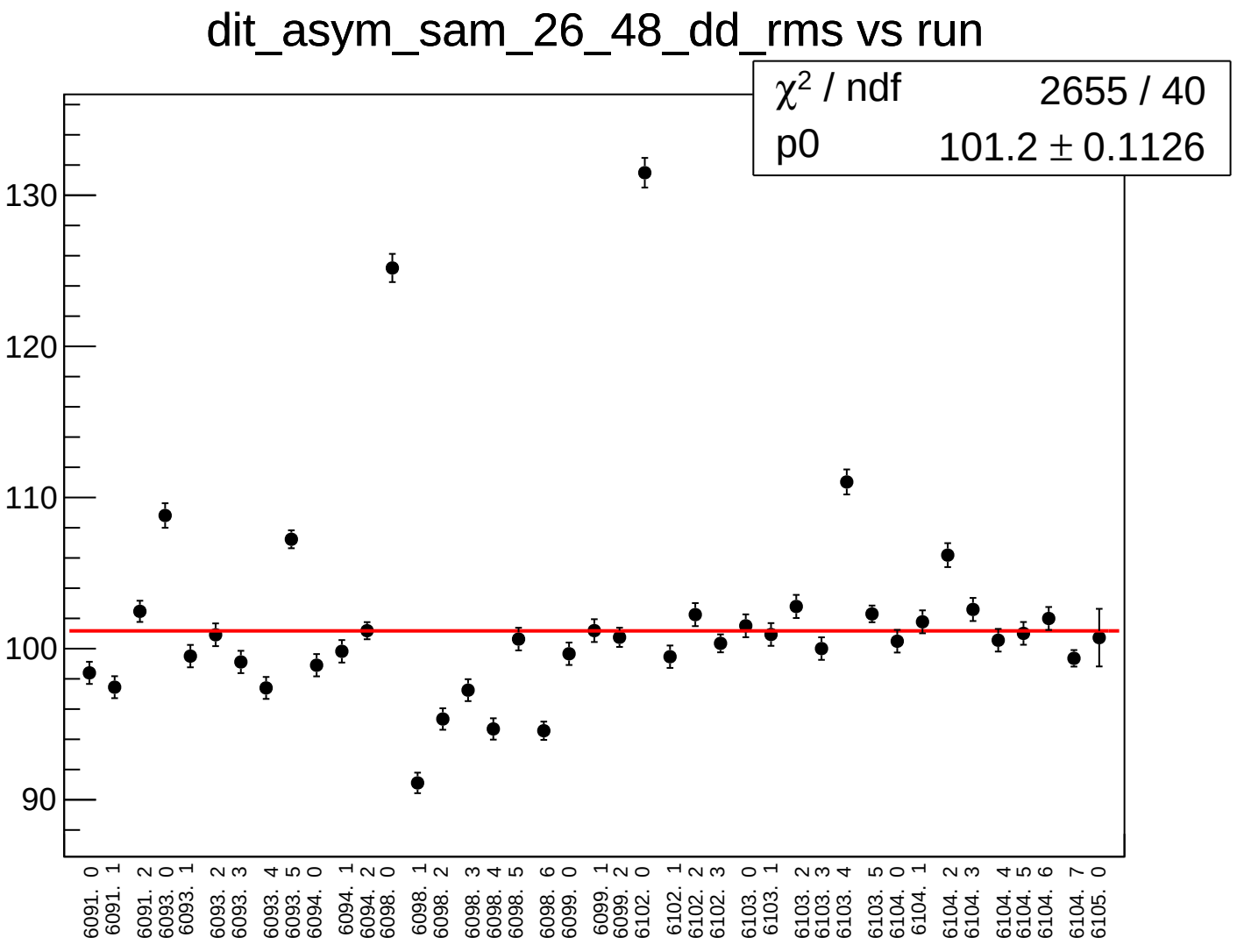

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3948 / 40
p0 1491 ± 1.661
1900
1800
1700
1600
1500
1400
1300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

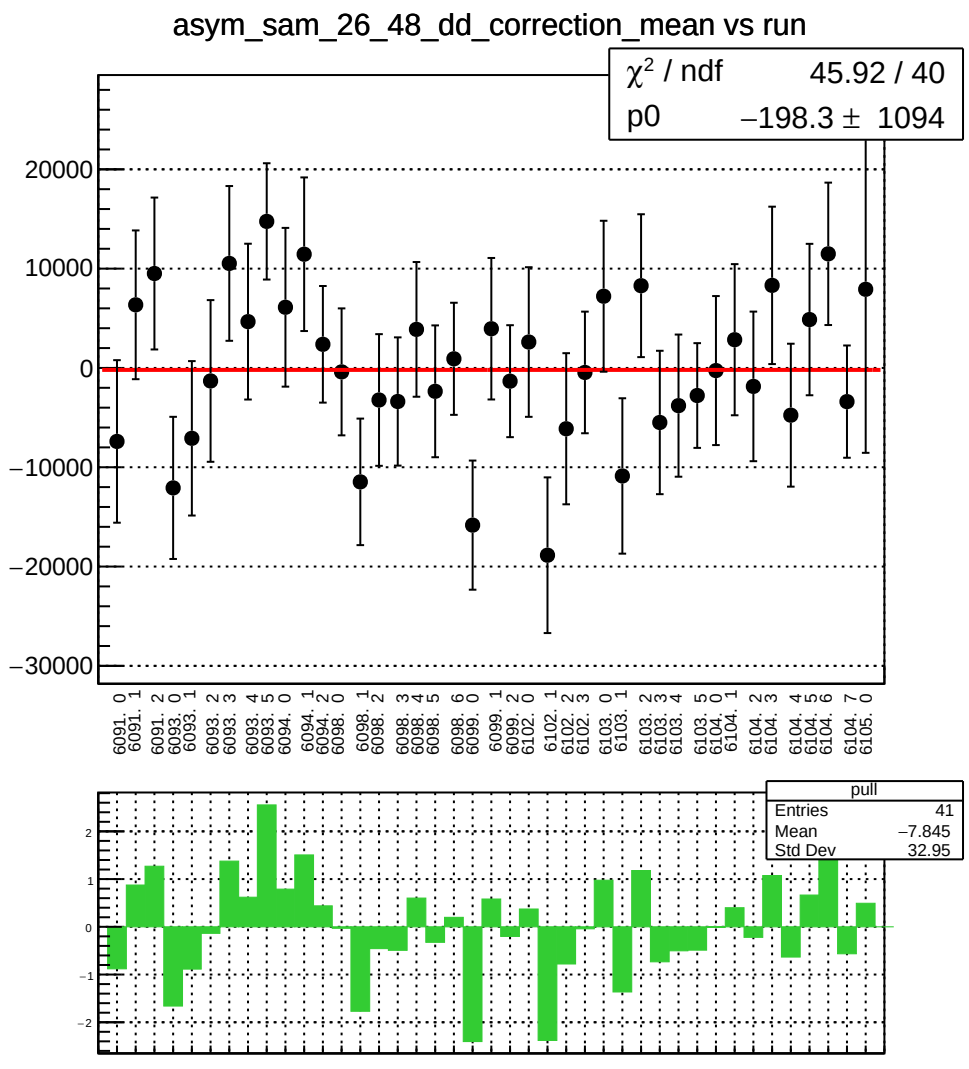

asym_sam_24_68_dd_mean vs run
χ² / ndf 37.99 / 40
p0 −196.7 ± 2337
60000
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 78.86
Std Dev 54.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.009509
Std Dev 0.9626
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

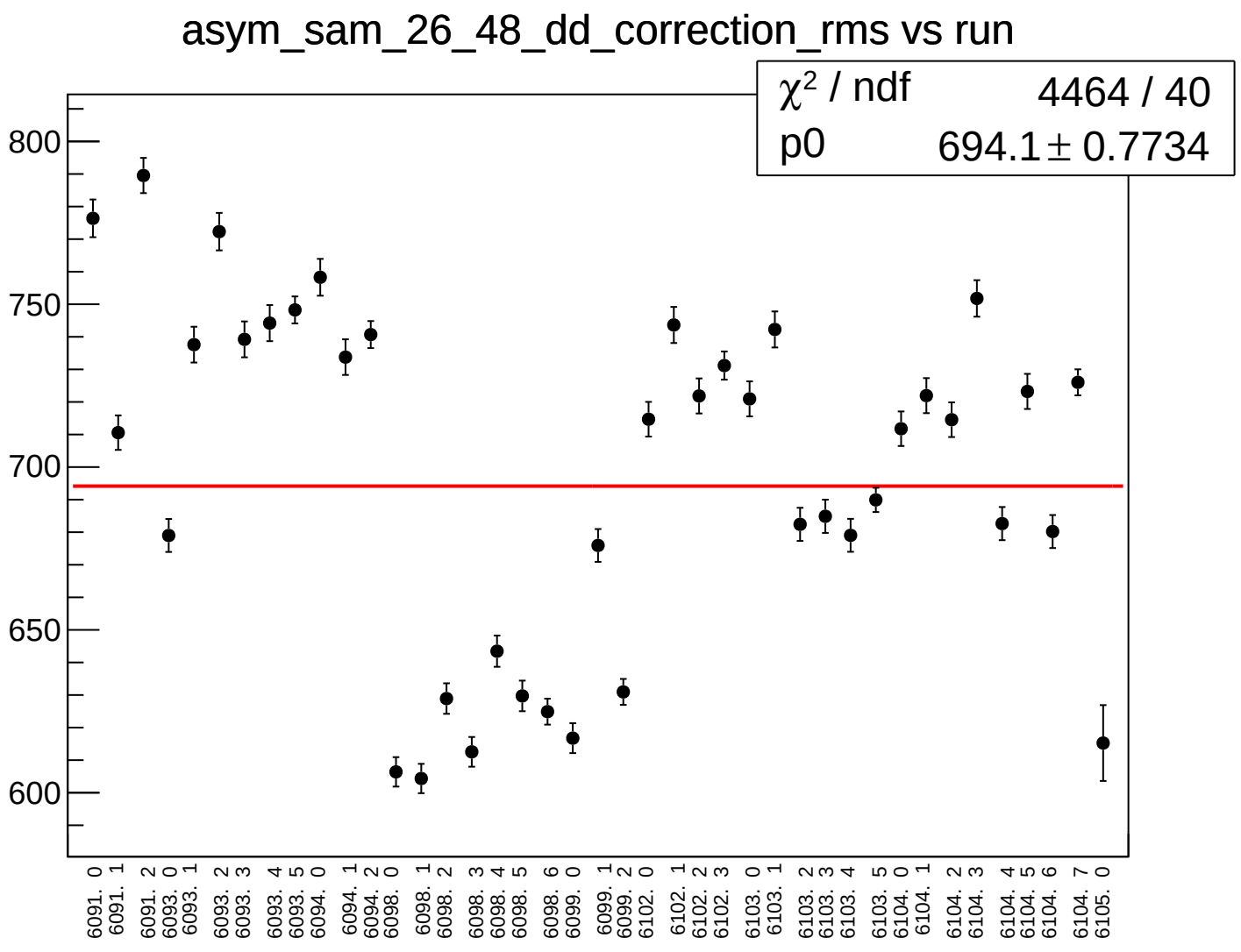

asym_sam_24_68_dd_rms vs run
χ² / ndf 3994 / 40
p0 1484 ± 1.653
1900
1800
1700
1600
1500
1400
1300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

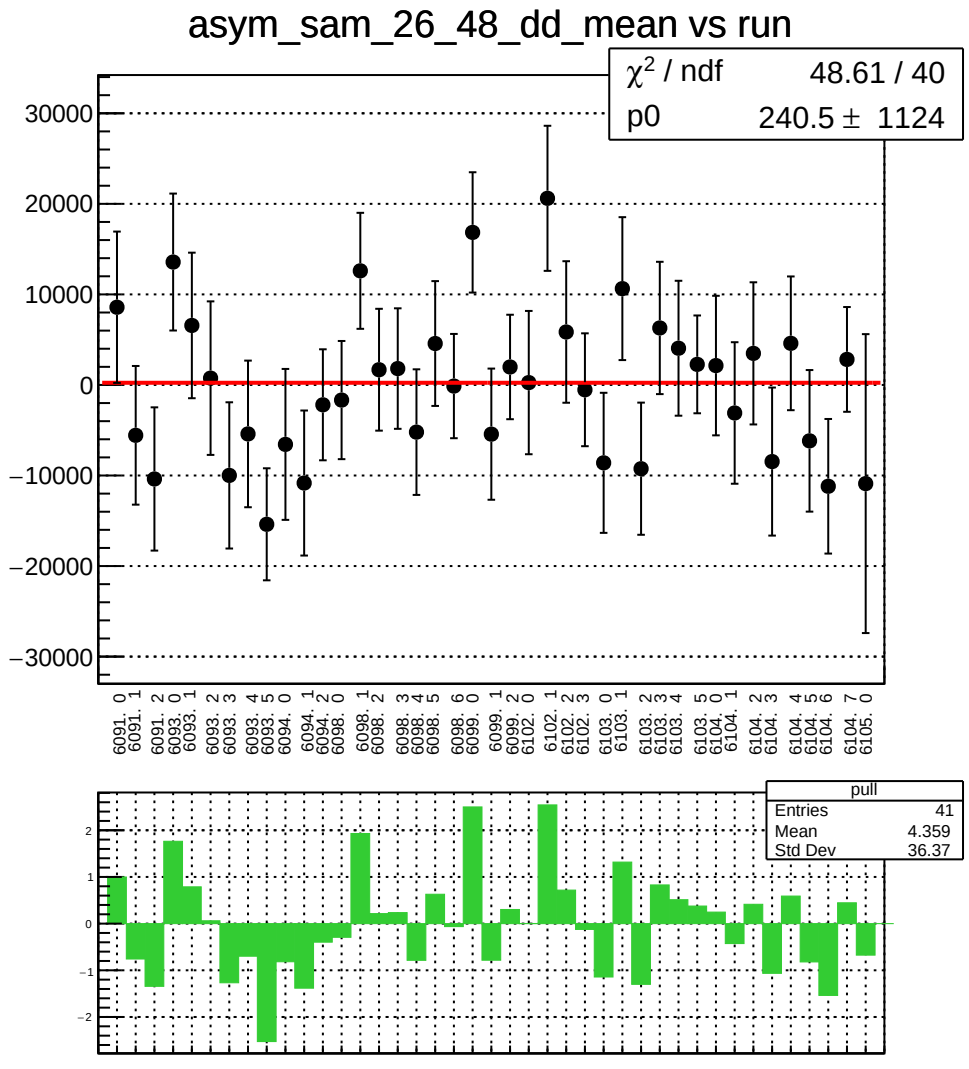

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 46.54 / 40
p0 −21.25 ± 159.2
4000
2000
0
−2000
−4000
−6000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −90.86
Std Dev 114.4
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.007003
Std Dev 1.065
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 2655 / 40
p0 101.2 ± 0.1126
130
120
110
100
90
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0


asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 45.92 / 40
p0 −198.3 ± 1094
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −7.845
Std Dev 32.95
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01558
Std Dev 1.058
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 4464 / 40
p0 694.1 ± 0.7734
800
750
700
650
600
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0


asym_sam_26_48_dd_mean vs run
χ² / ndf 48.61 / 40
p0 240.5 ± 1124
30000
20000
10000
0
−10000
−20000
−30000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
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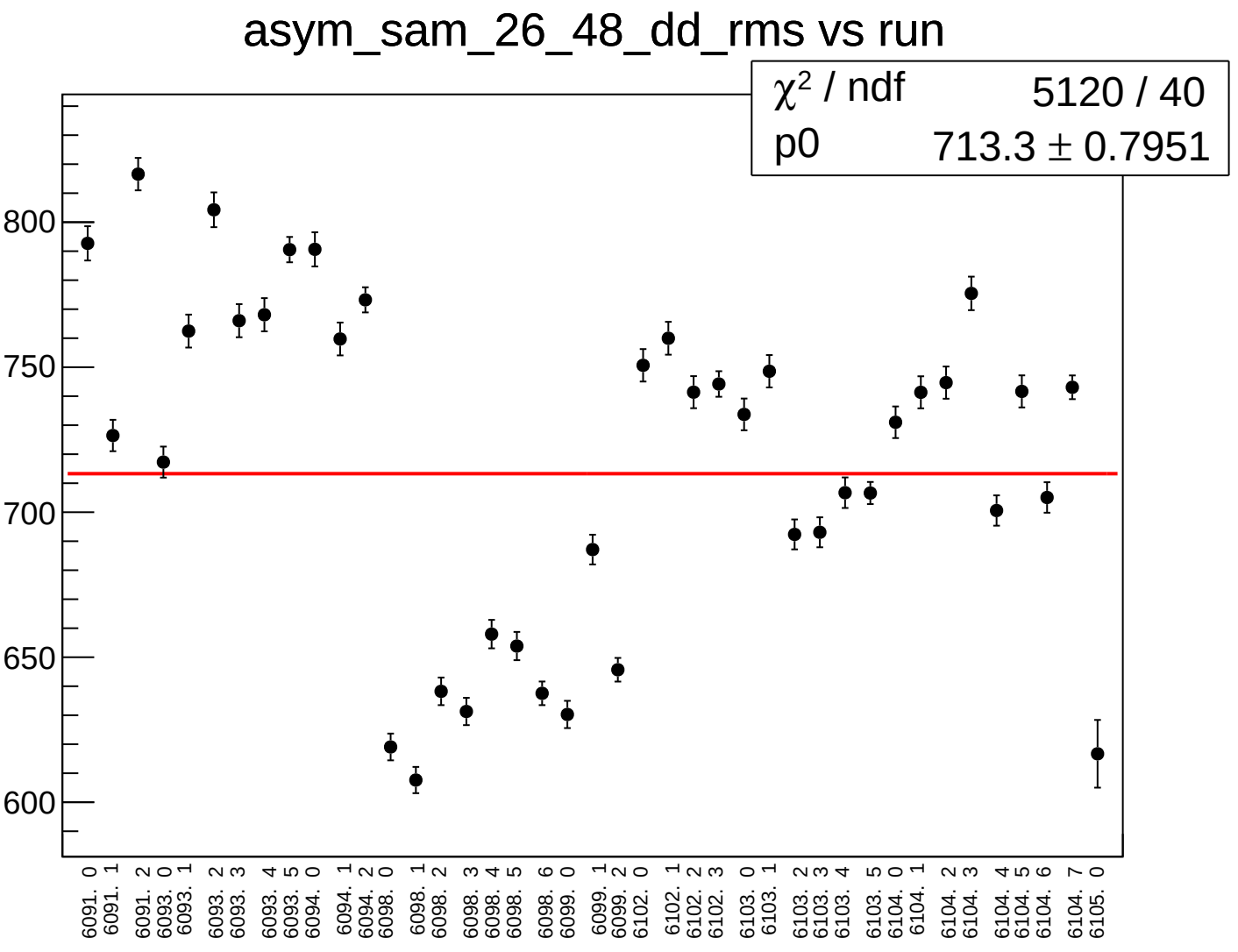
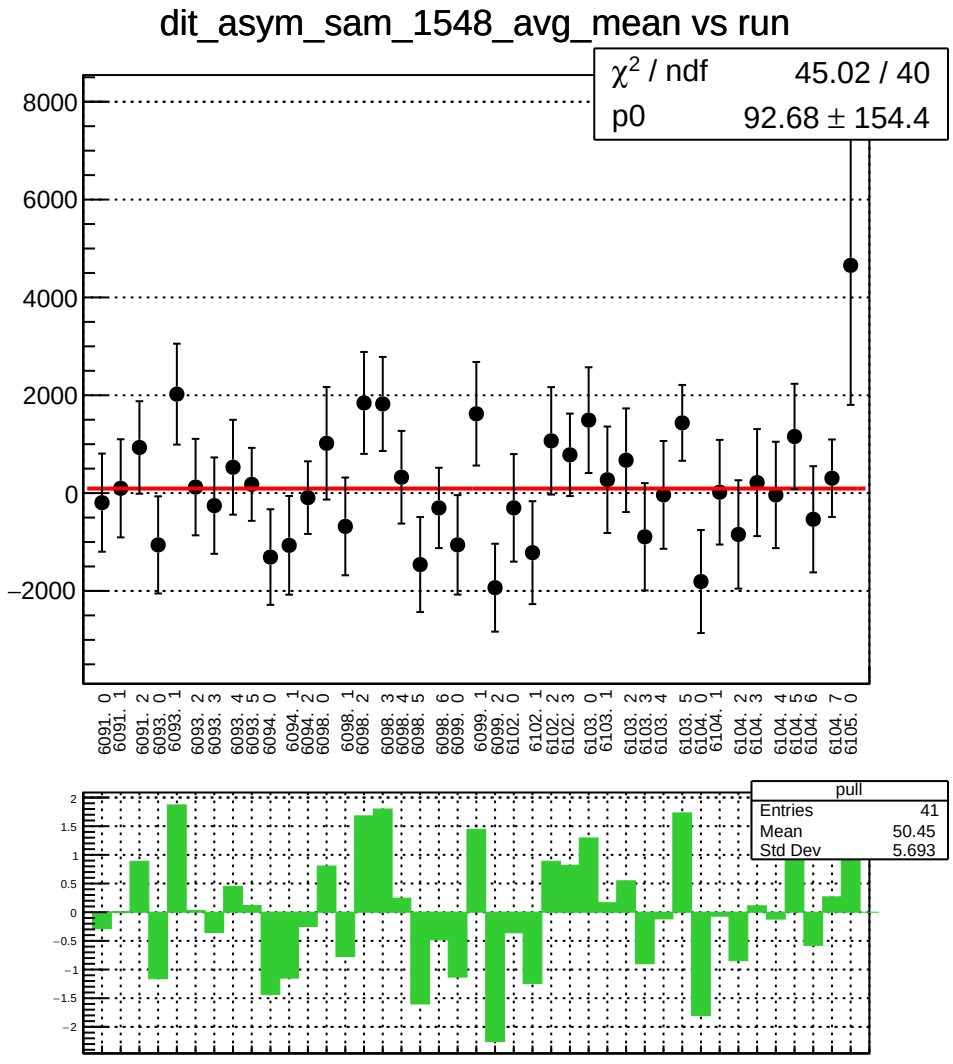
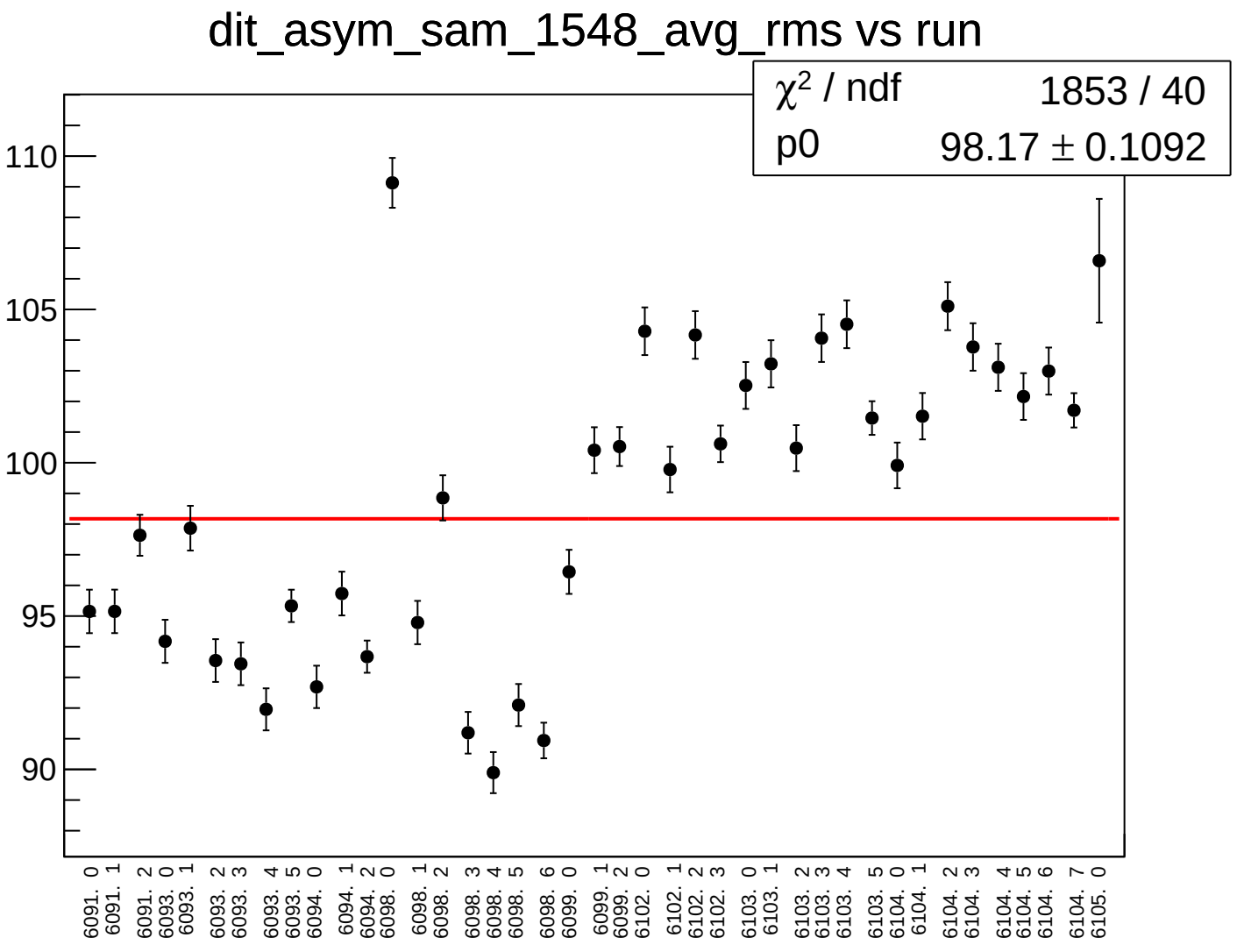
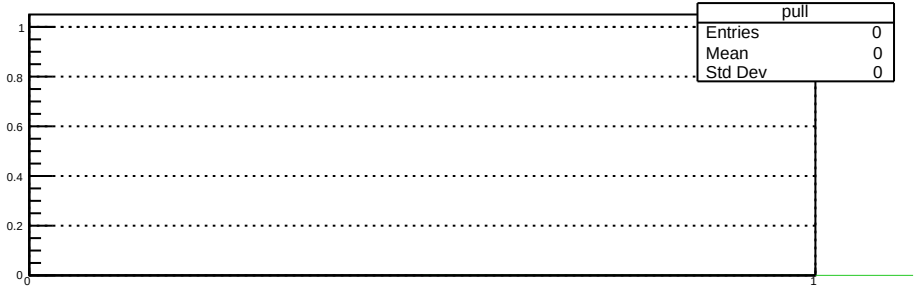
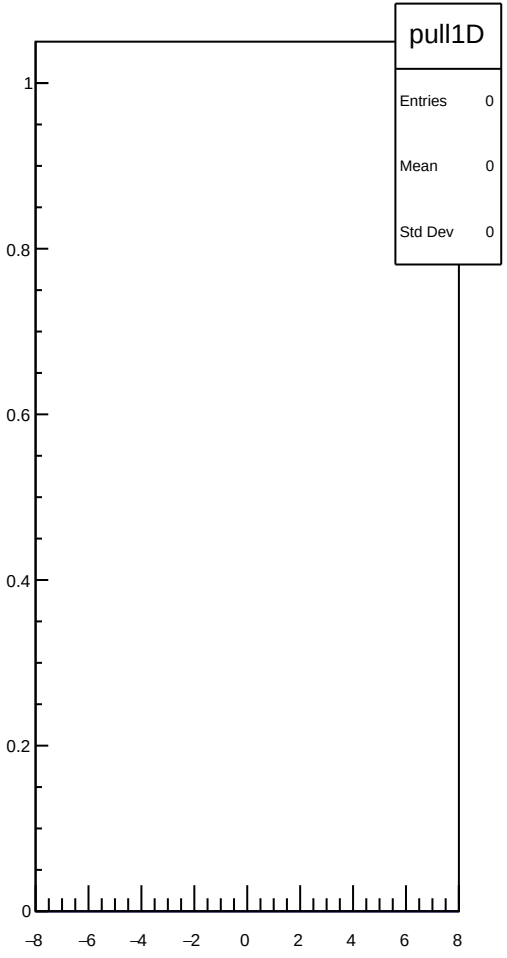
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 4.359
Std Dev 36.37
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01928
Std Dev 1.089
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

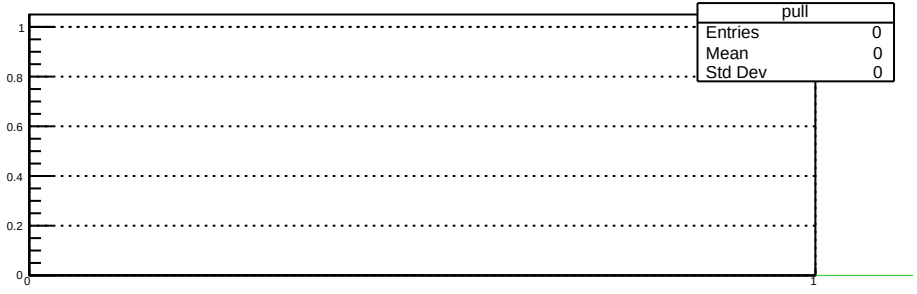

asym_sam_26_48_dd_rms vs run
χ² / ndf 5120 / 40
p0 713.3 ± 0.7951
800
750
700
650
600
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

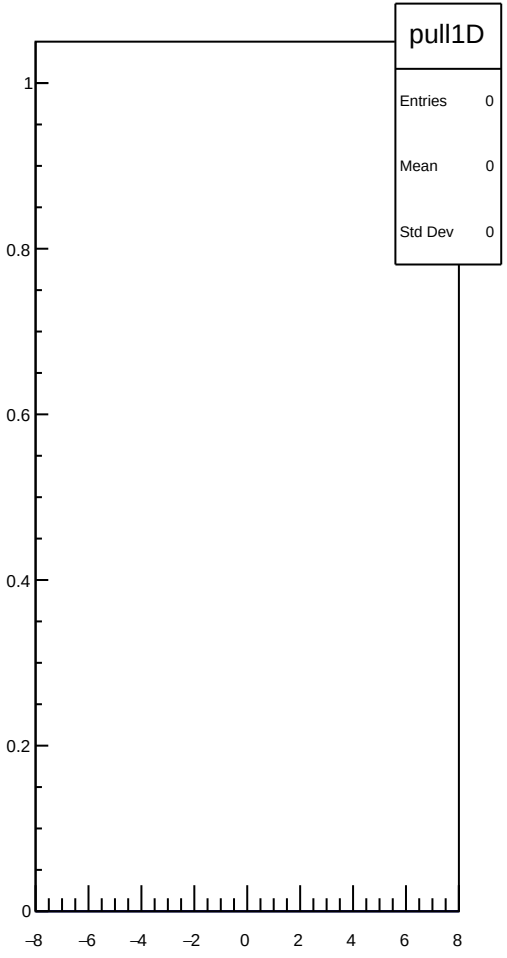

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 45.02 / 40
p0 92.68 ± 154.4
8000
6000
4000
2000
0
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 50.45
Std Dev 5.693
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02024
Std Dev 1.048
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

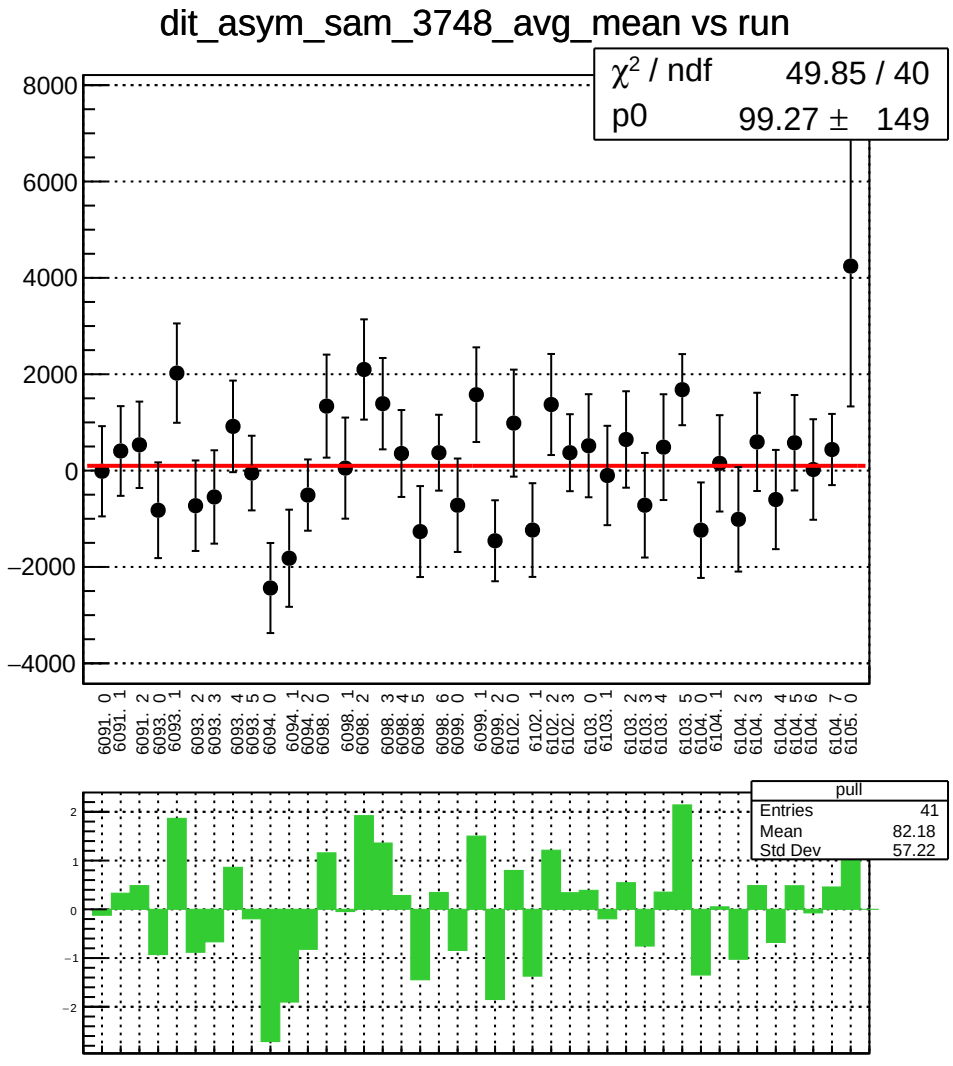

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1853 / 40
p0 98.17 ± 0.1092
110
105
100
95
90
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

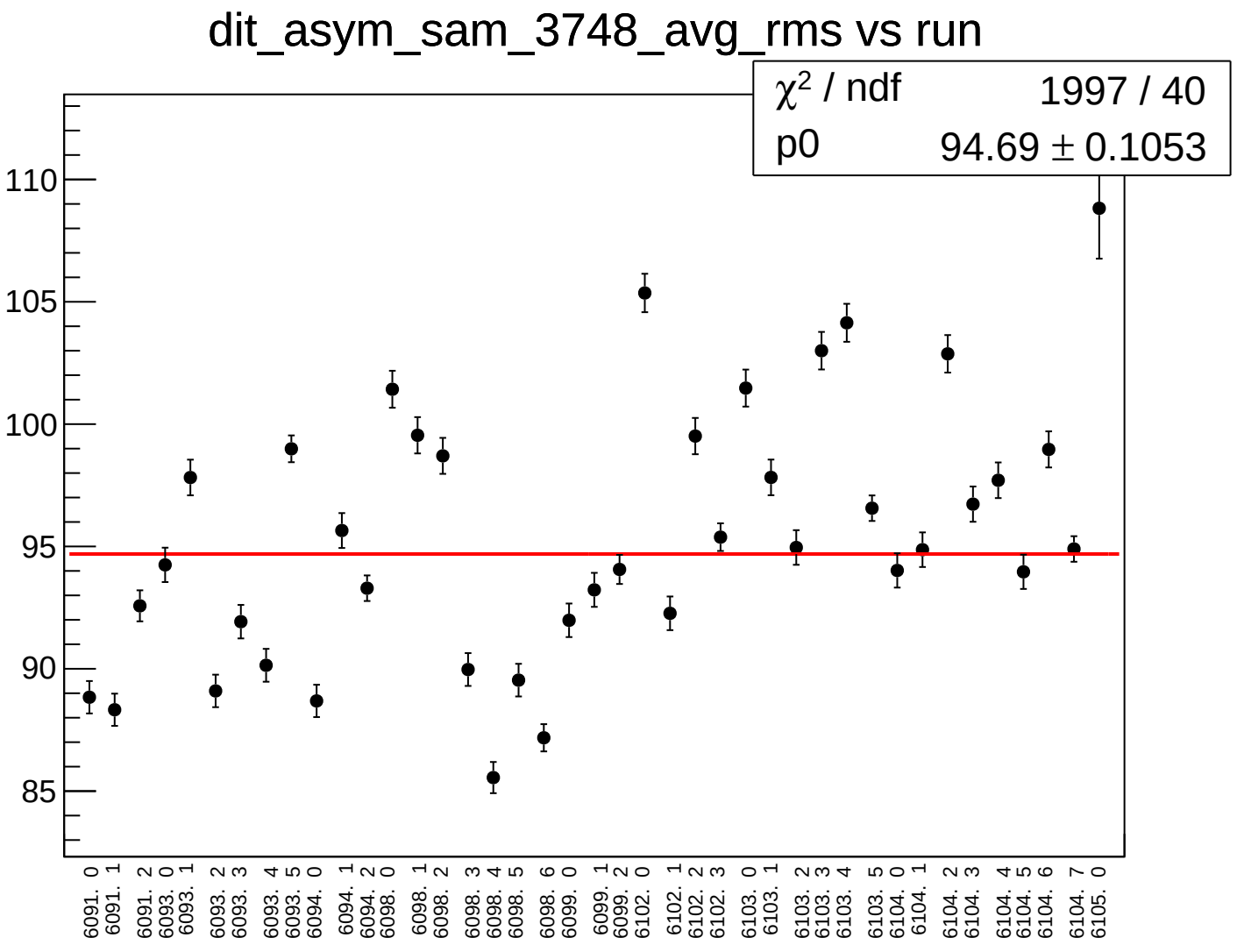

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

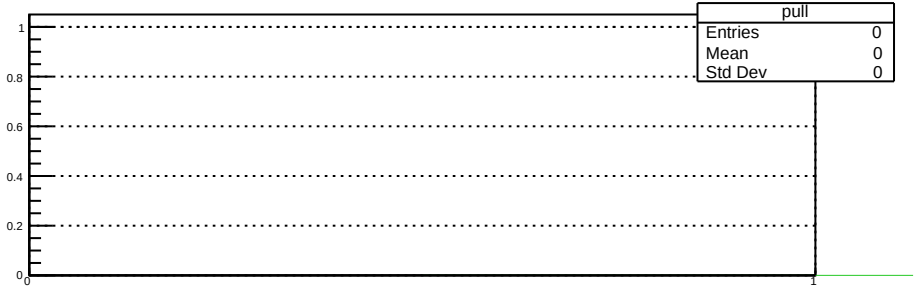

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

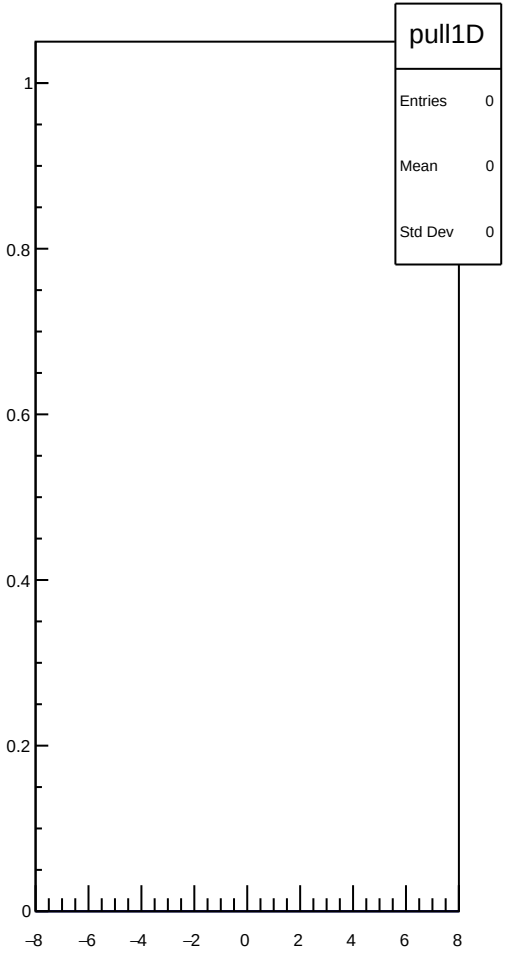

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

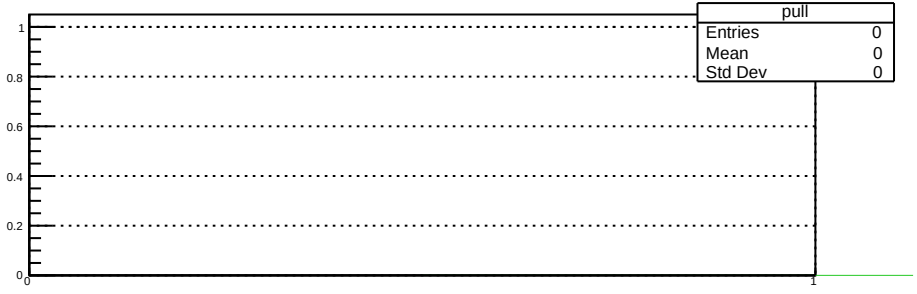

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

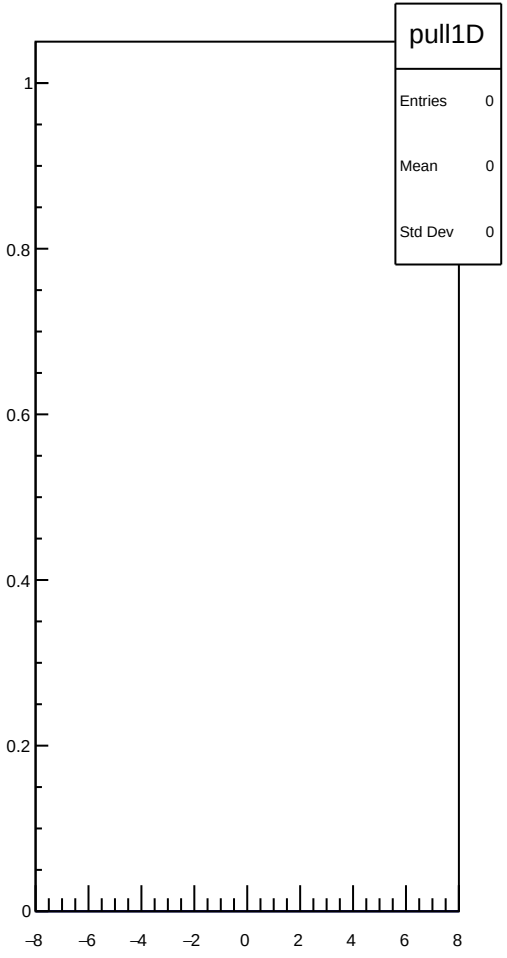

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 49.85 / 40
p0 99.27 ± 149
8000
6000
4000
2000
0
−2000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 82.18
Std Dev 57.22
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02287
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

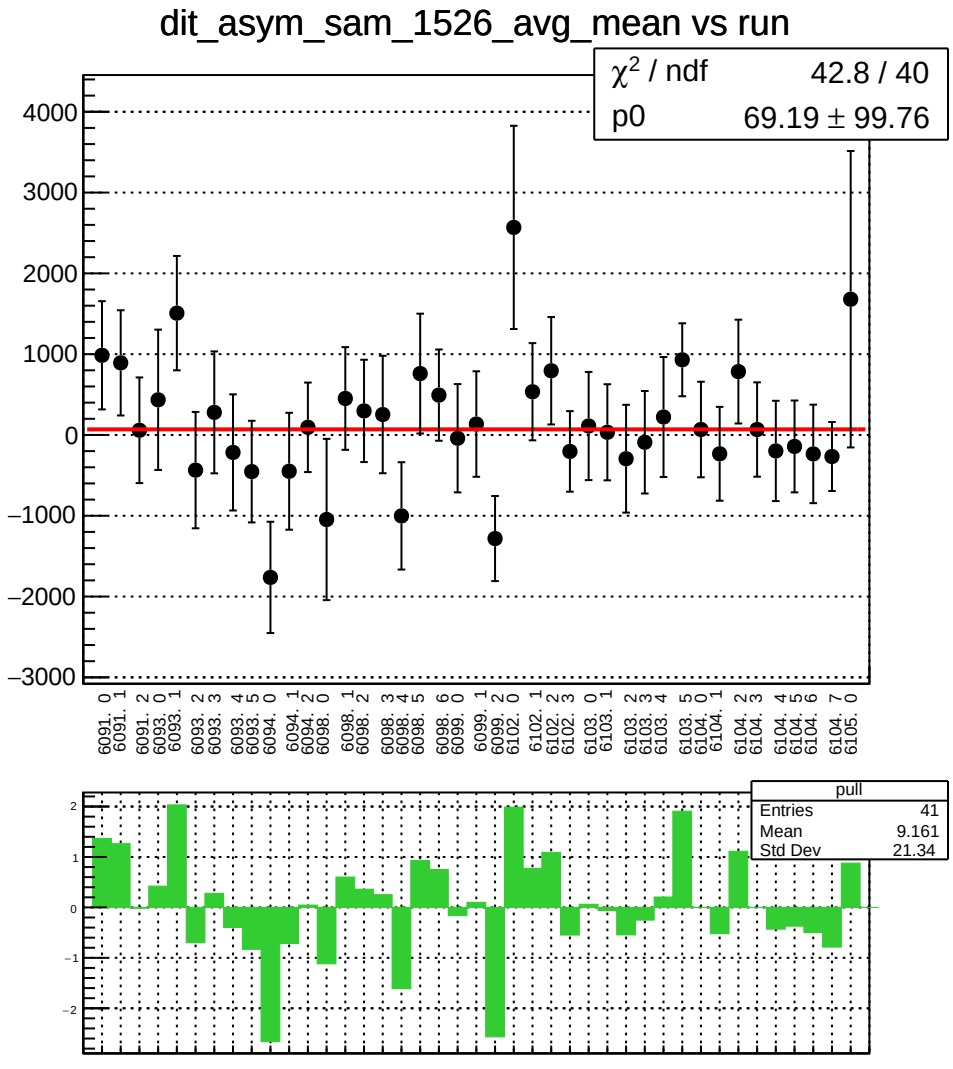

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1997 / 40
p0 94.69 ± 0.1053
110
105
100
95
90
85
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

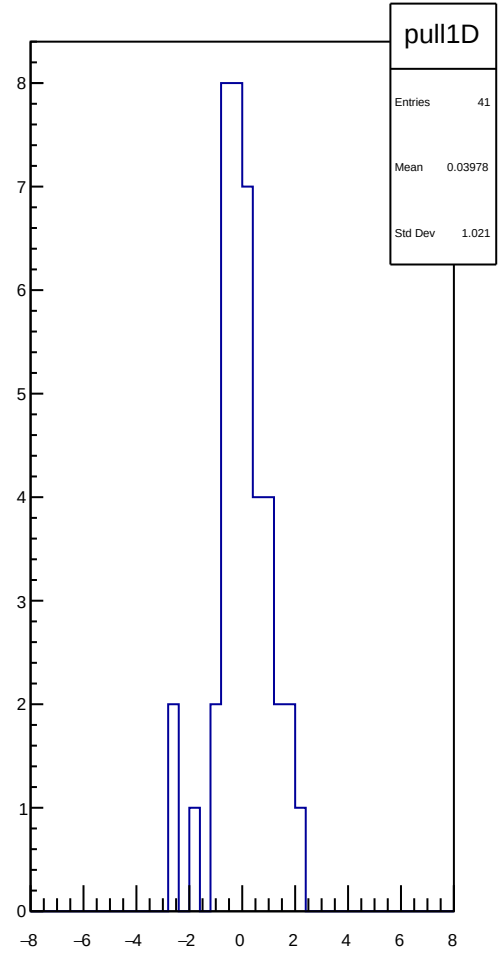

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

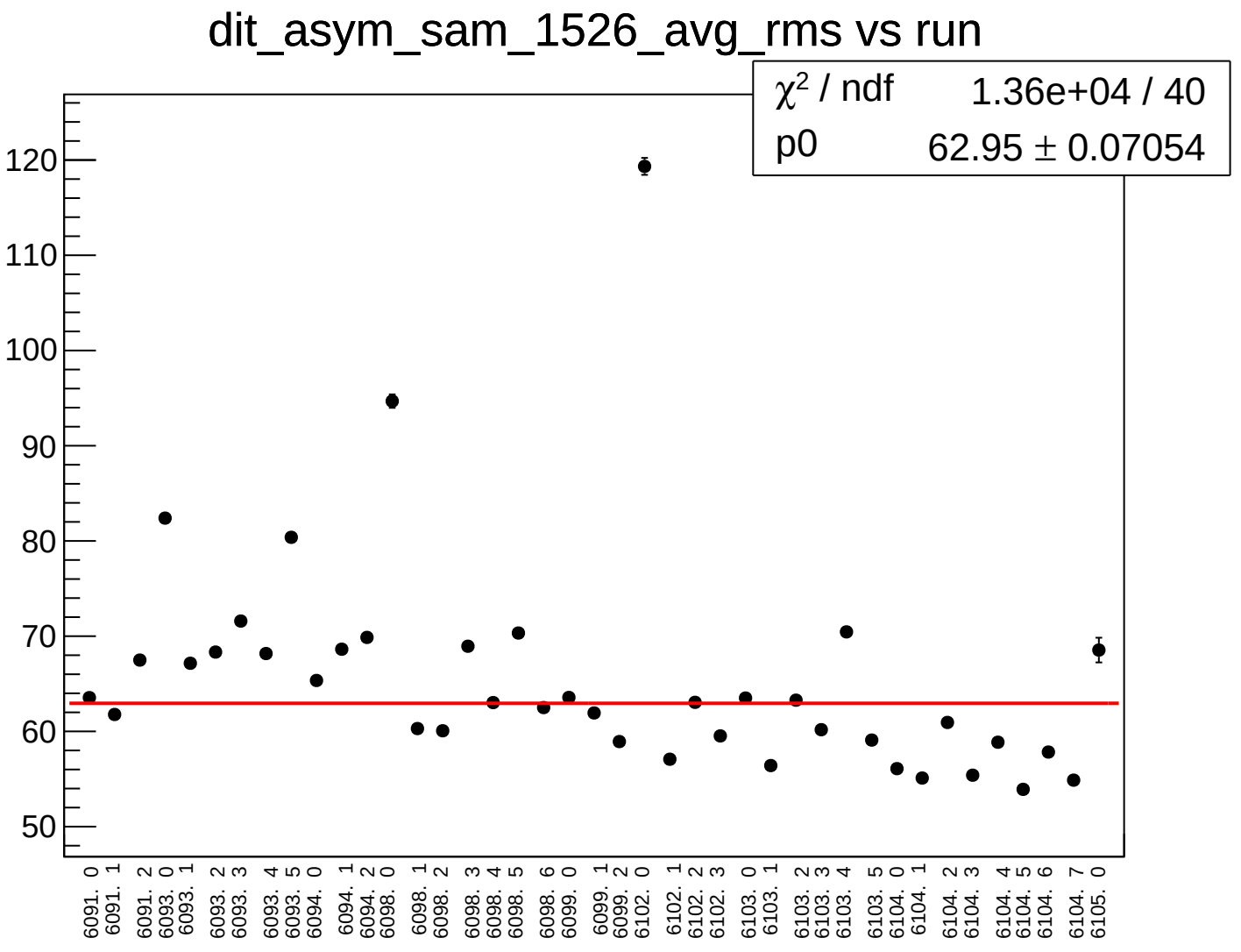

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

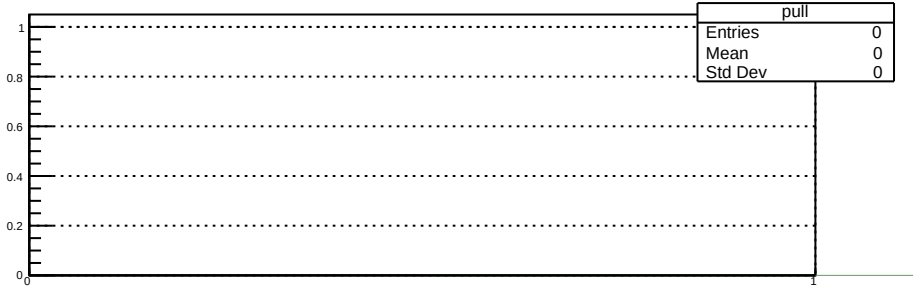

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

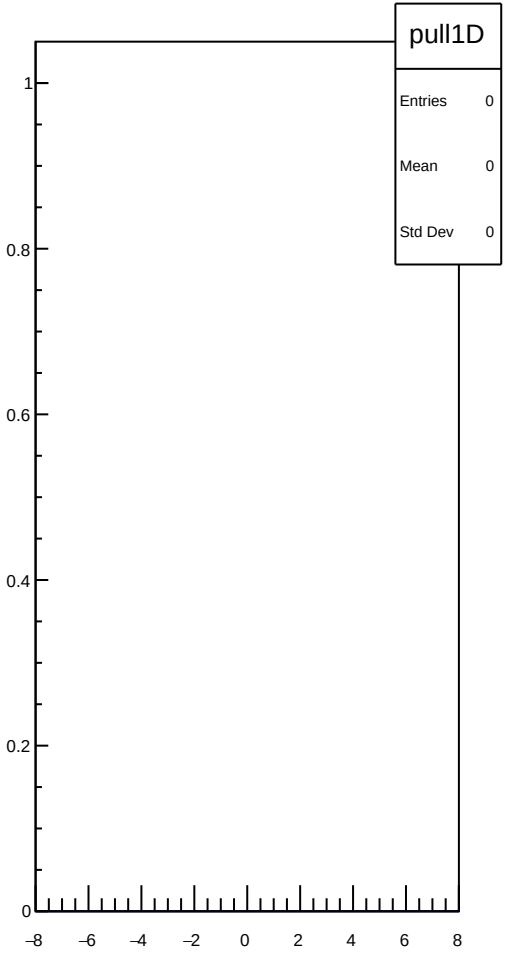

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

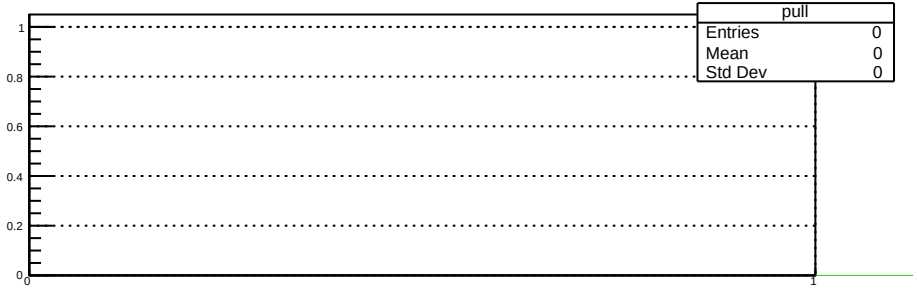

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 42.8 / 40
p0 69.19 ± 99.76
4000
3000
2000
1000
0
−1000
−2000
−3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 9.161
Std Dev 21.34
2
1
0
−1
−2

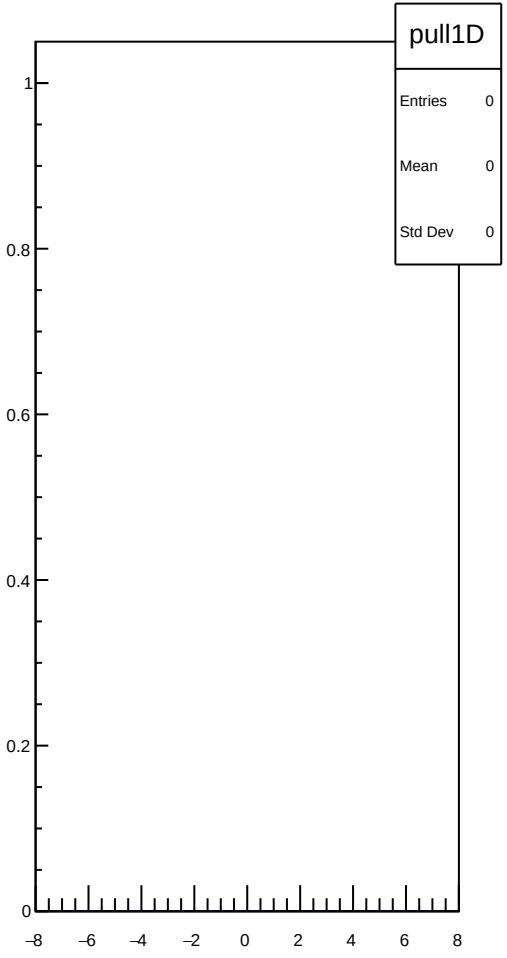

pull1D
Entries 41
Mean 0.03978
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

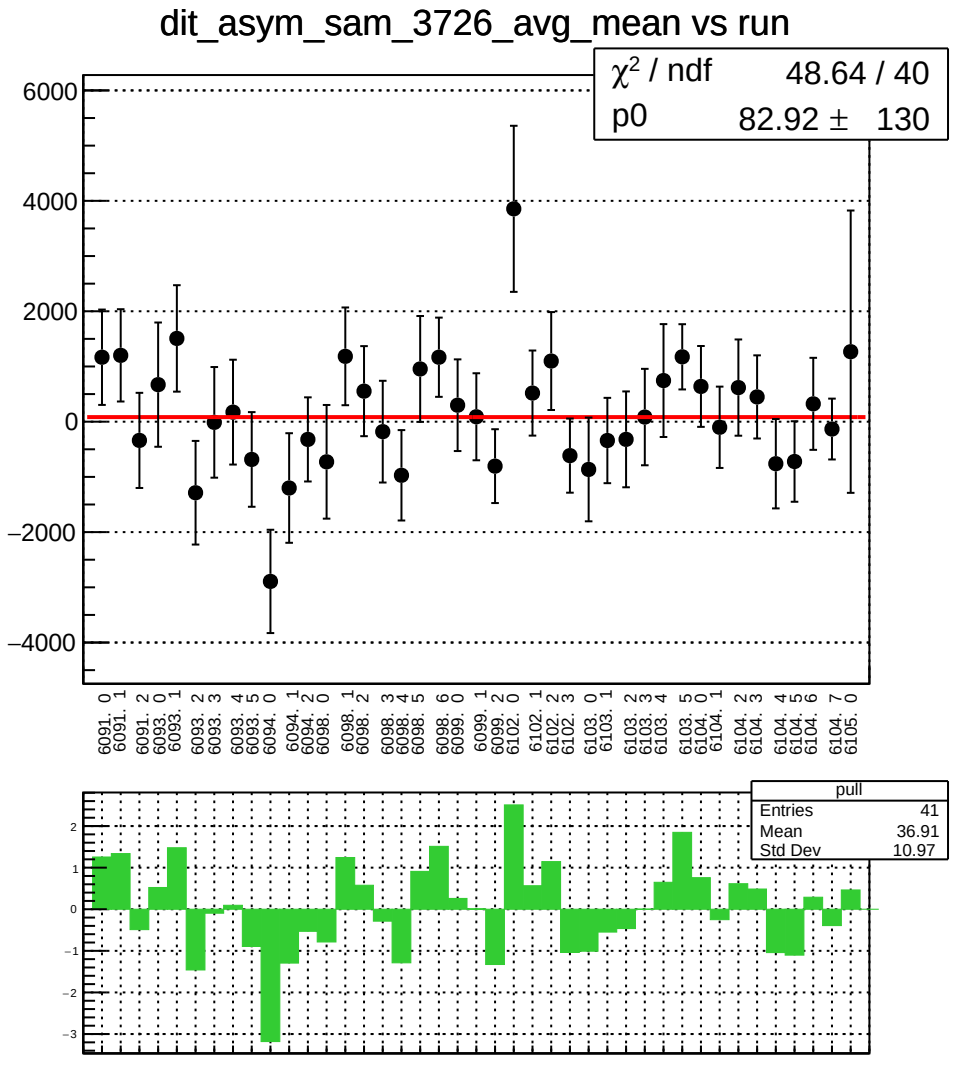

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.36e+04 / 40
p0 62.95 ± 0.07054
120
110
100
90
80
70
60
50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

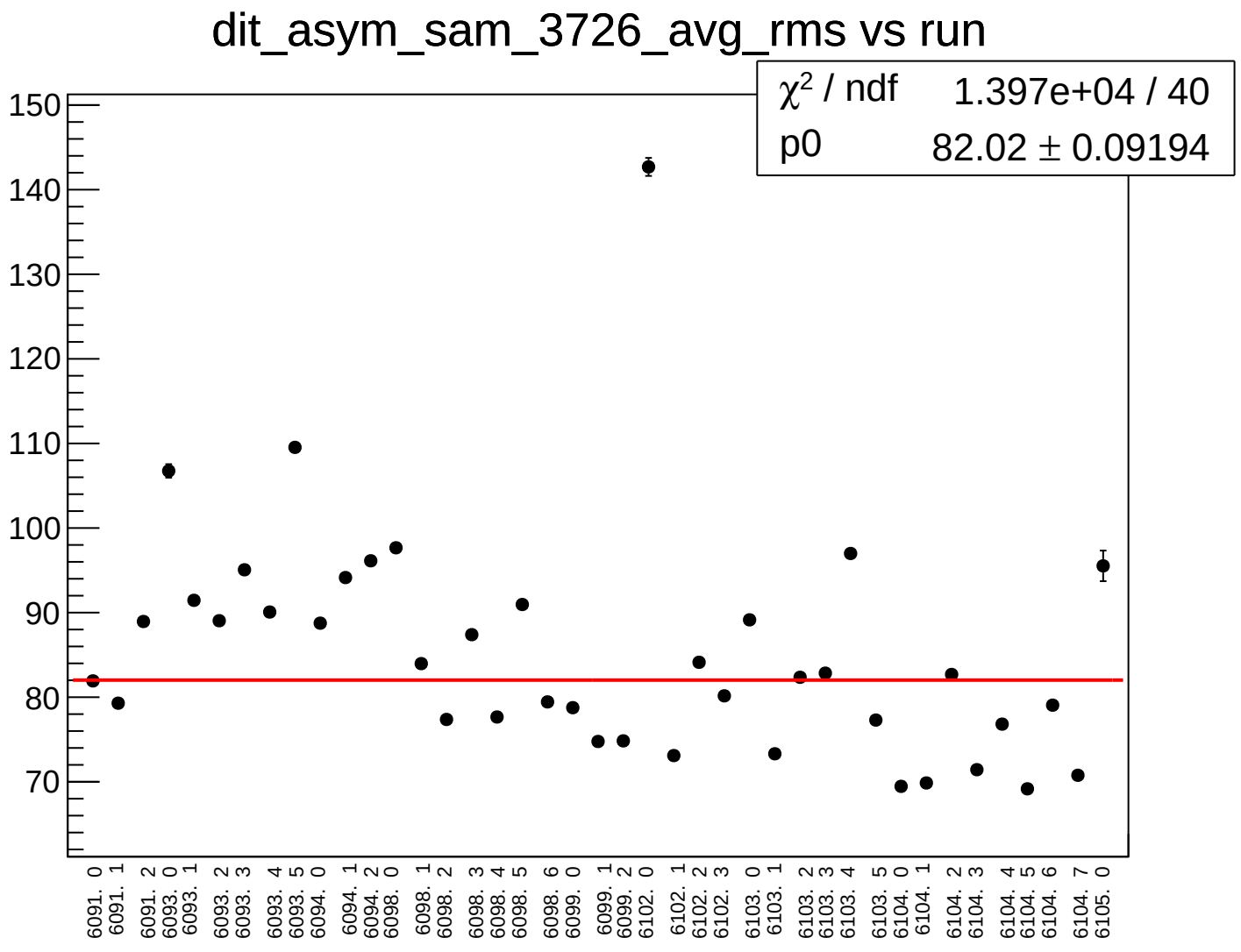

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

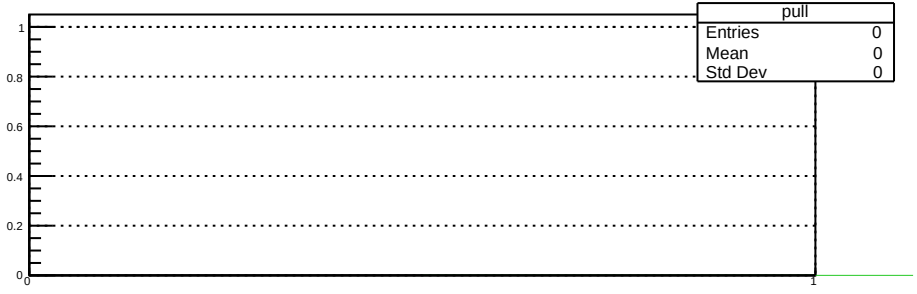

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

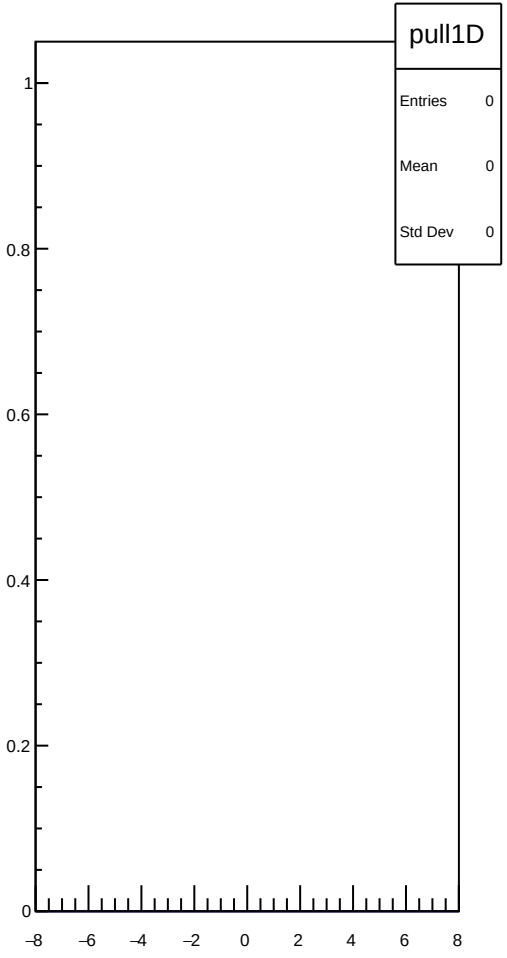

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

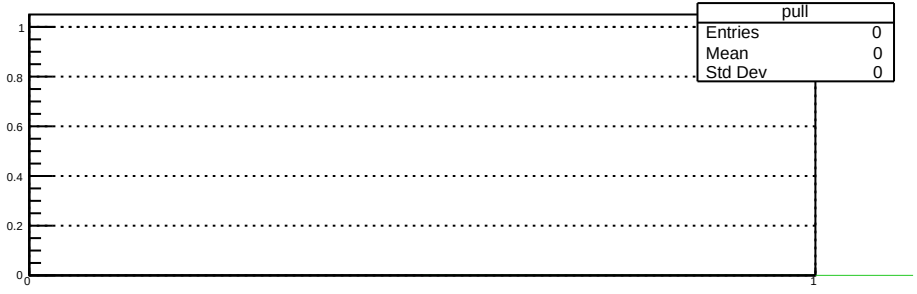

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

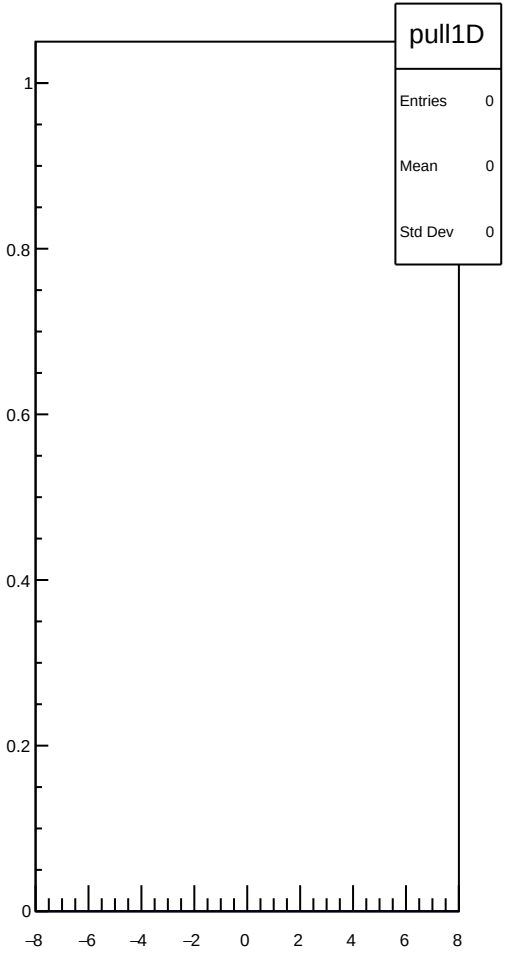

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 48.64 / 40
p0 82.92 ± 130
6000
4000
2000
0
−2000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 36.91
Std Dev 10.97
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.02549
Std Dev 1.089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

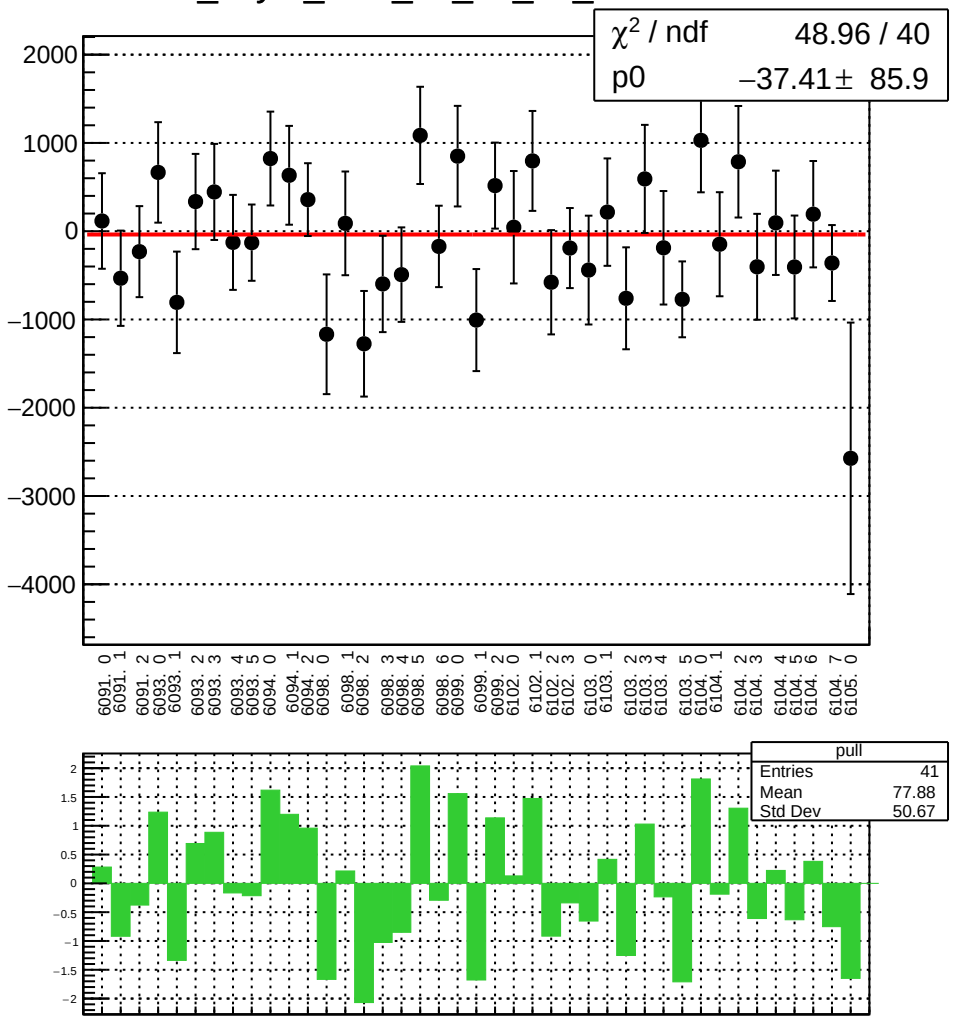

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.397e+04 / 40
p0 82.02 ± 0.09194
150
140
130
120
110
100
90
80
70
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

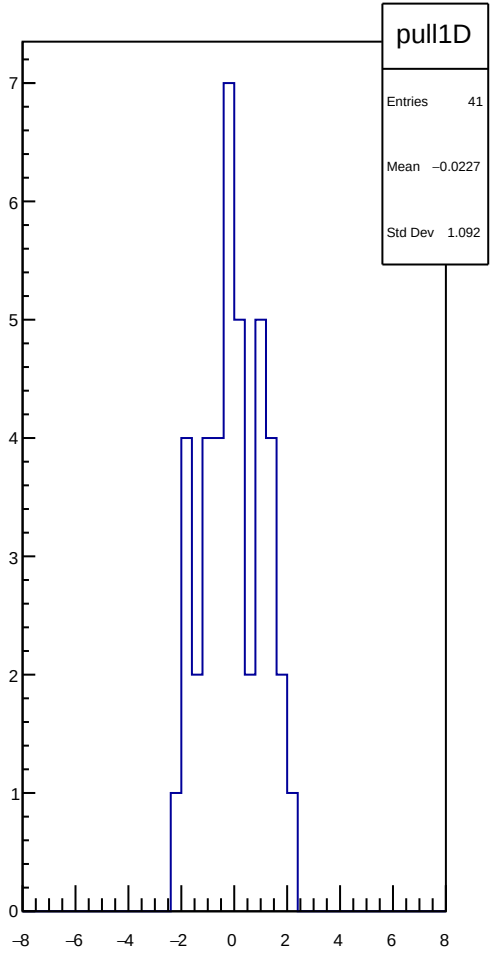

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

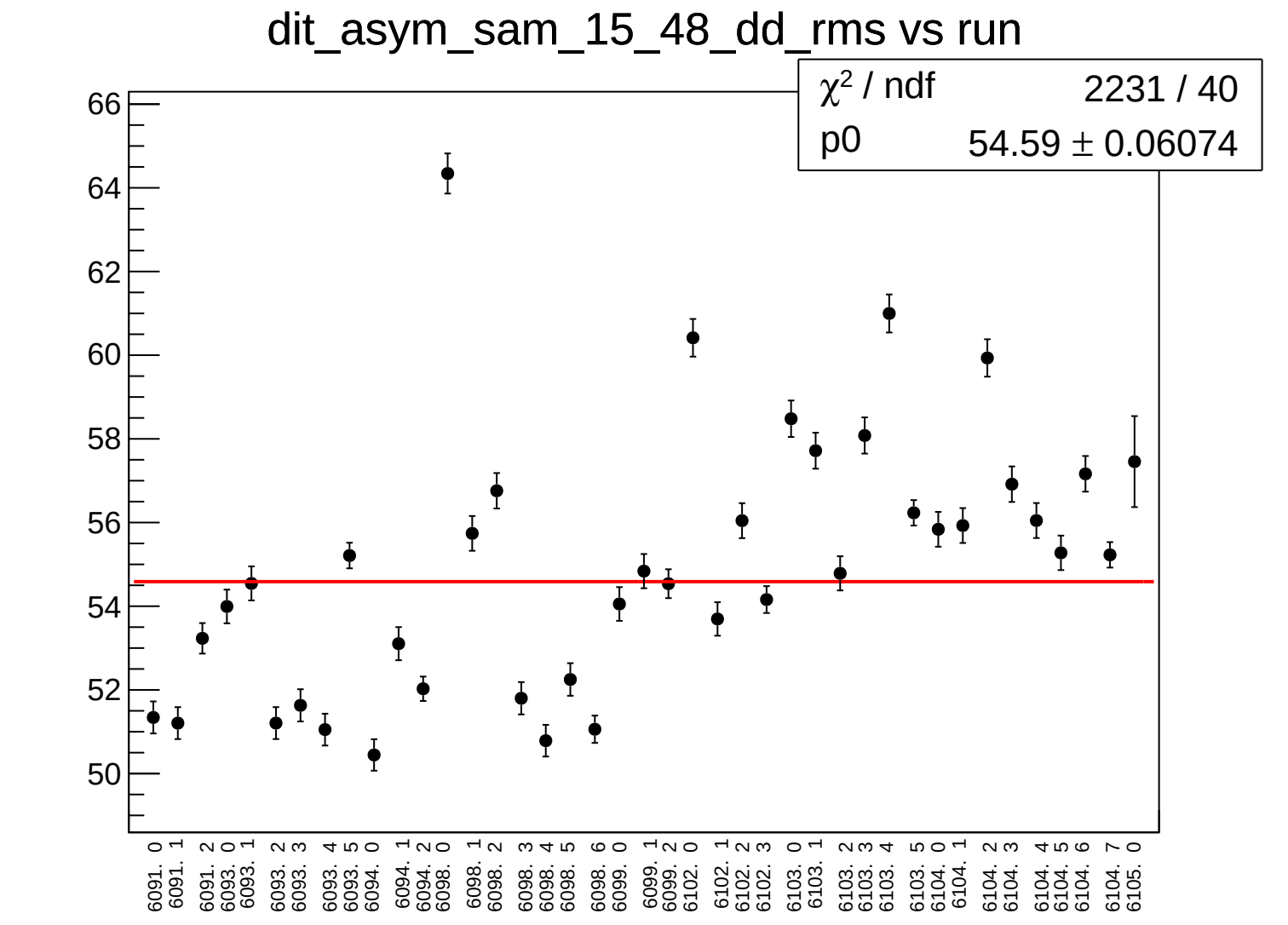

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

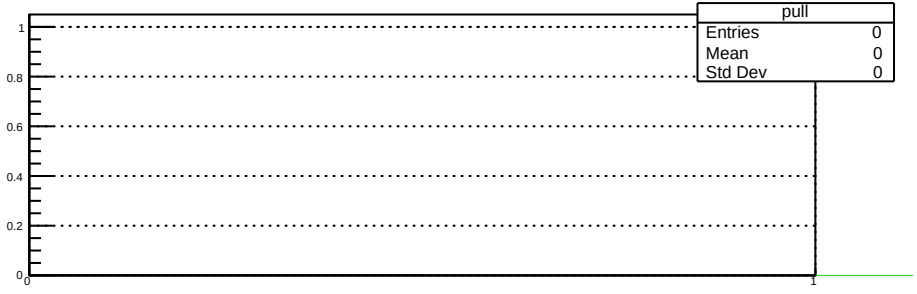

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

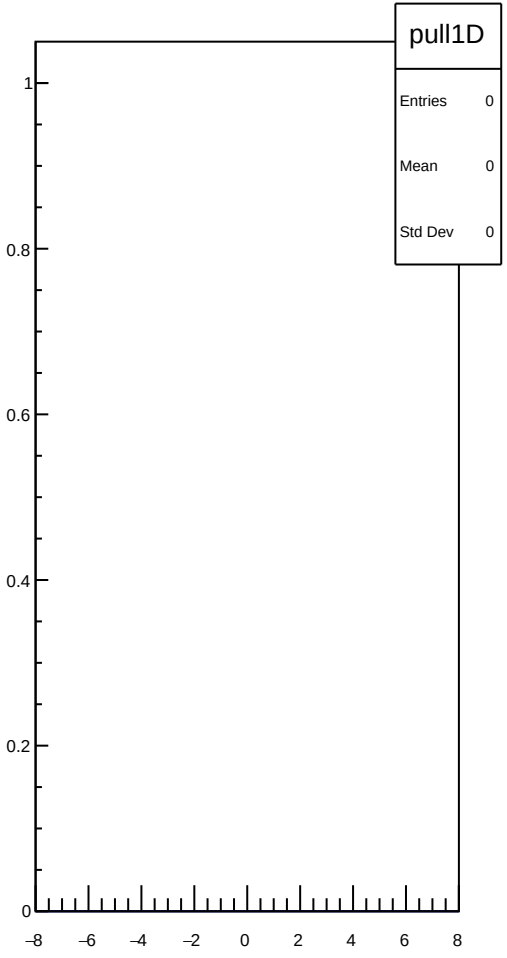

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

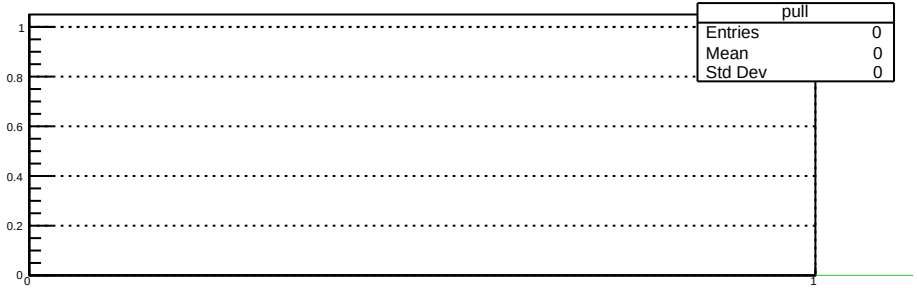

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 48.96 / 40
p0 −37.41± 85.9
pull
Entries 41
Mean 77.88
Std Dev 50.67

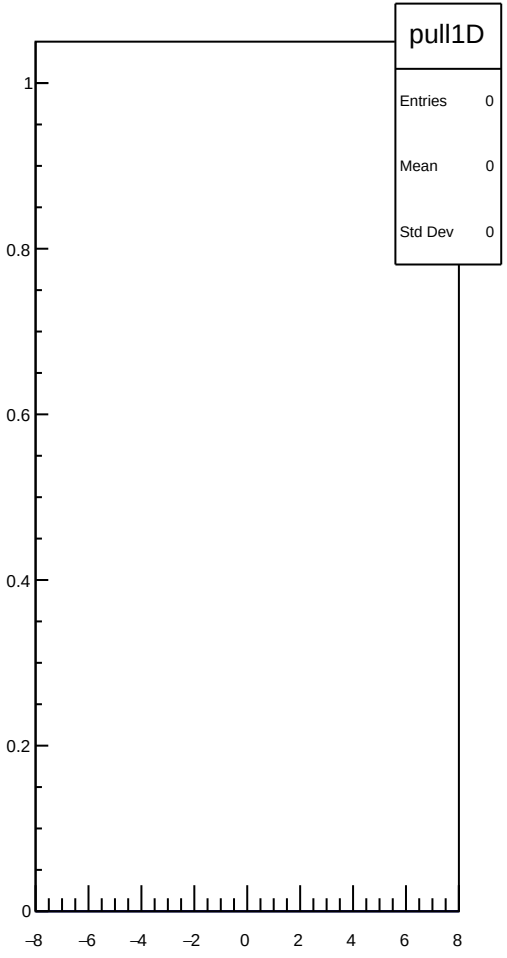

pull1D
Entries 41
Mean −0.0227
Std Dev 1.092

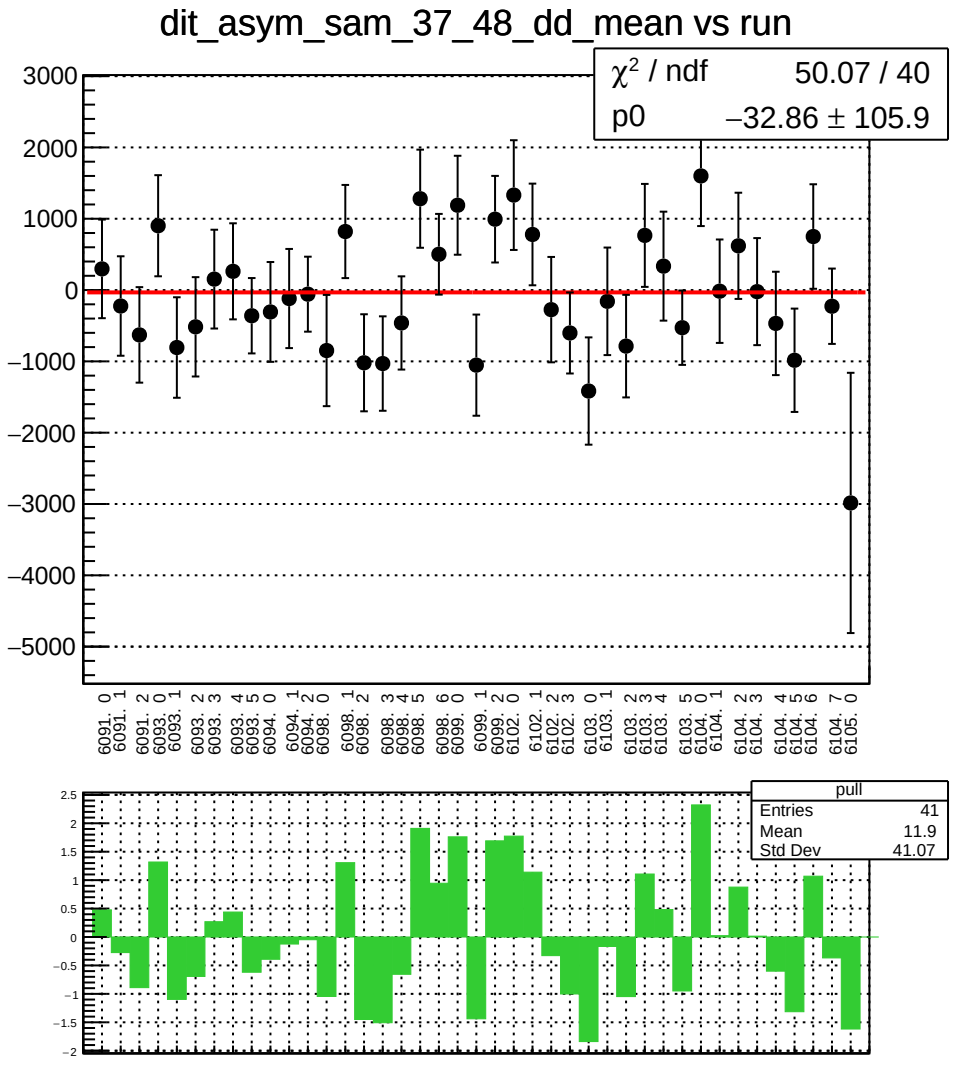

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2231 / 40
p0 54.59 ± 0.06074
66
64
62
60
58
56
54
52
50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

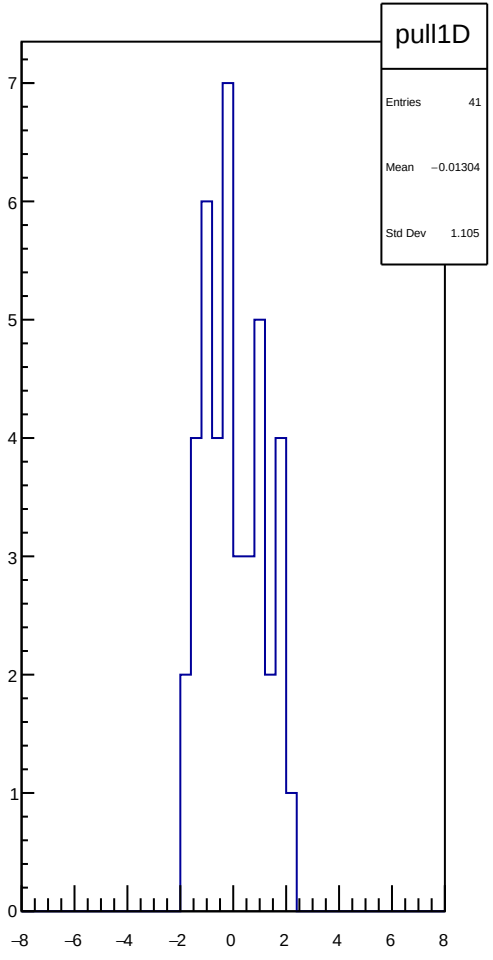

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

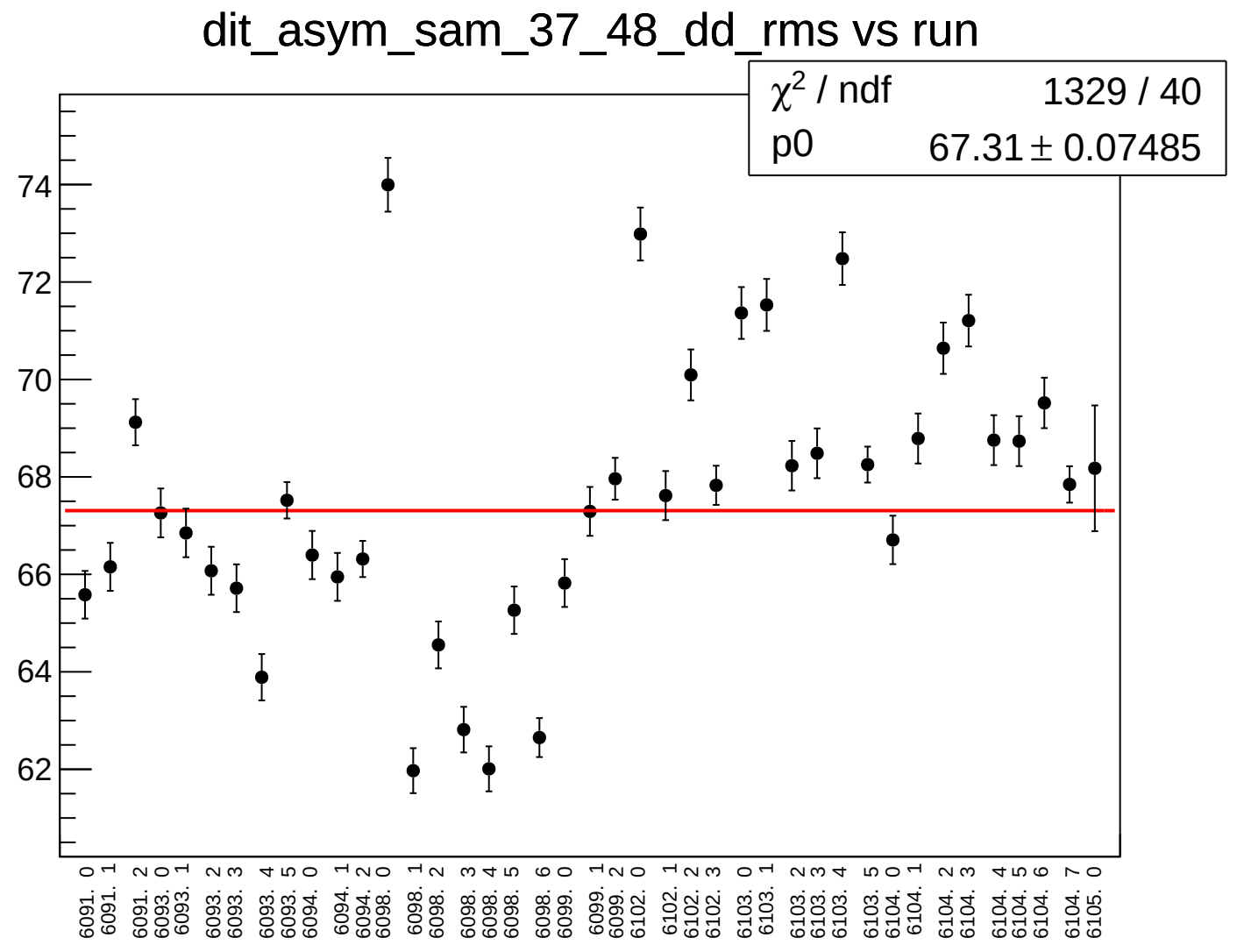

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

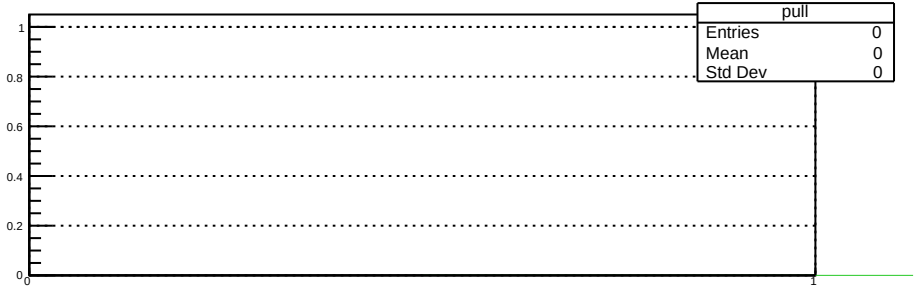

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

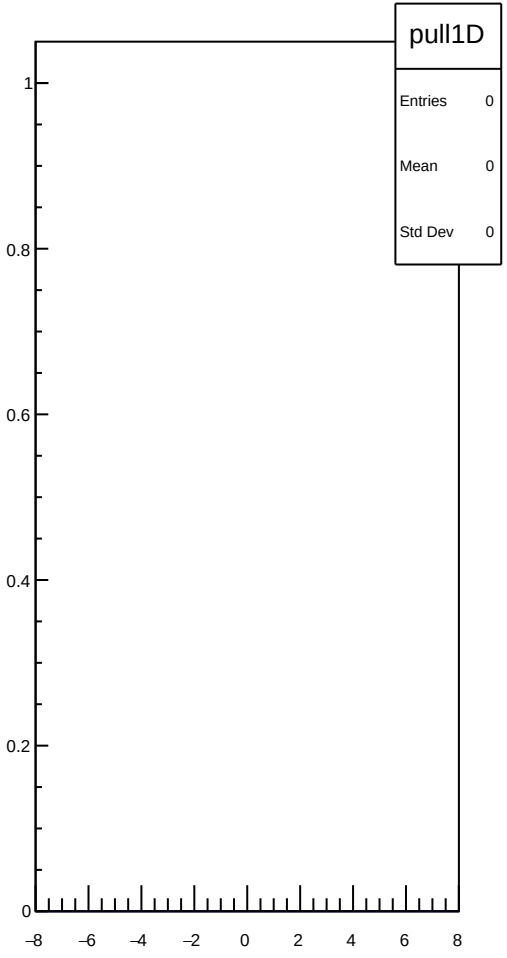

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

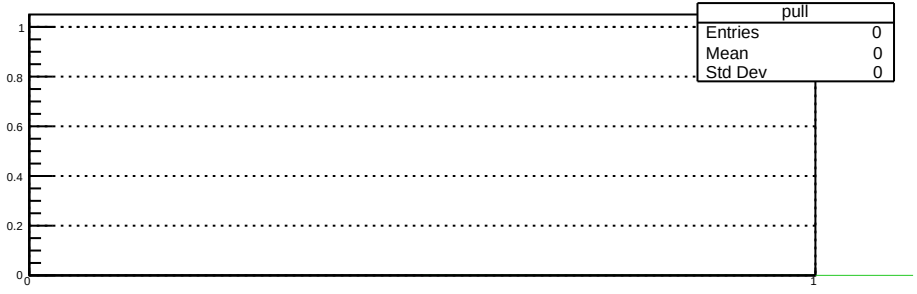

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 50.07 / 40
p0 −32.86 ± 105.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 11.9
Std Dev 41.07
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

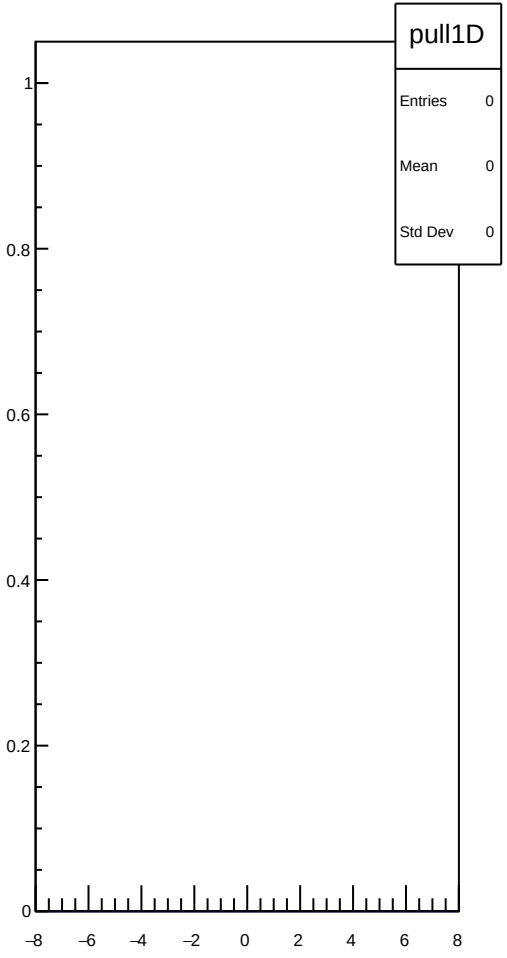

pull1D
Entries 41
Mean −0.01304
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

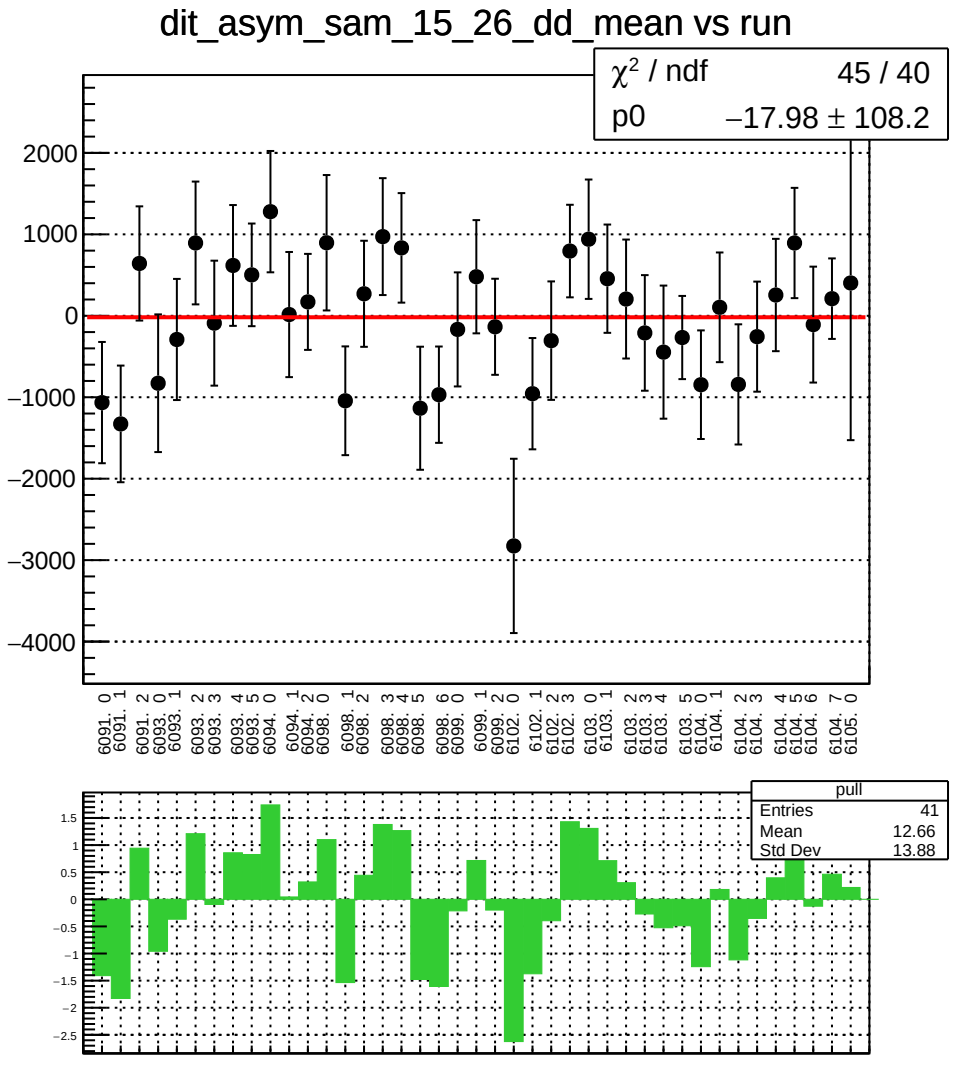

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1329 / 40
p0 67.31 ± 0.07485
74
72
70
68
66
64
62
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

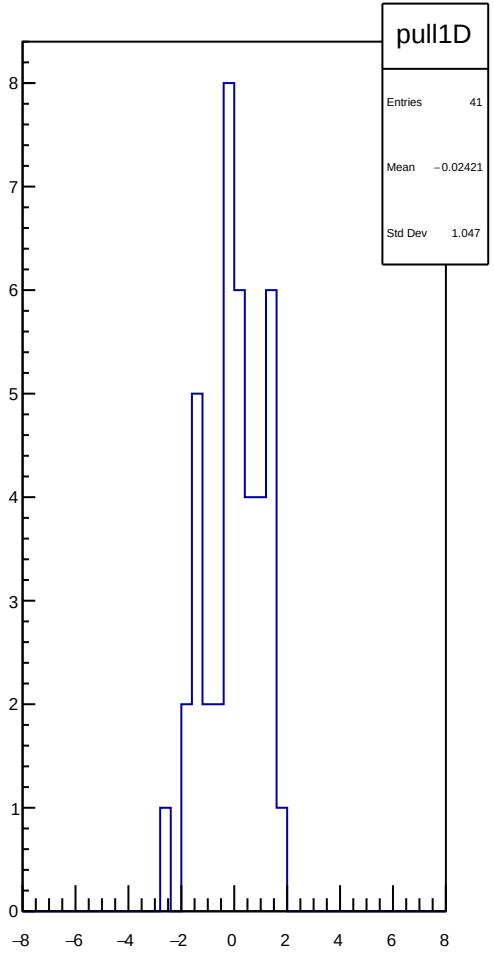

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

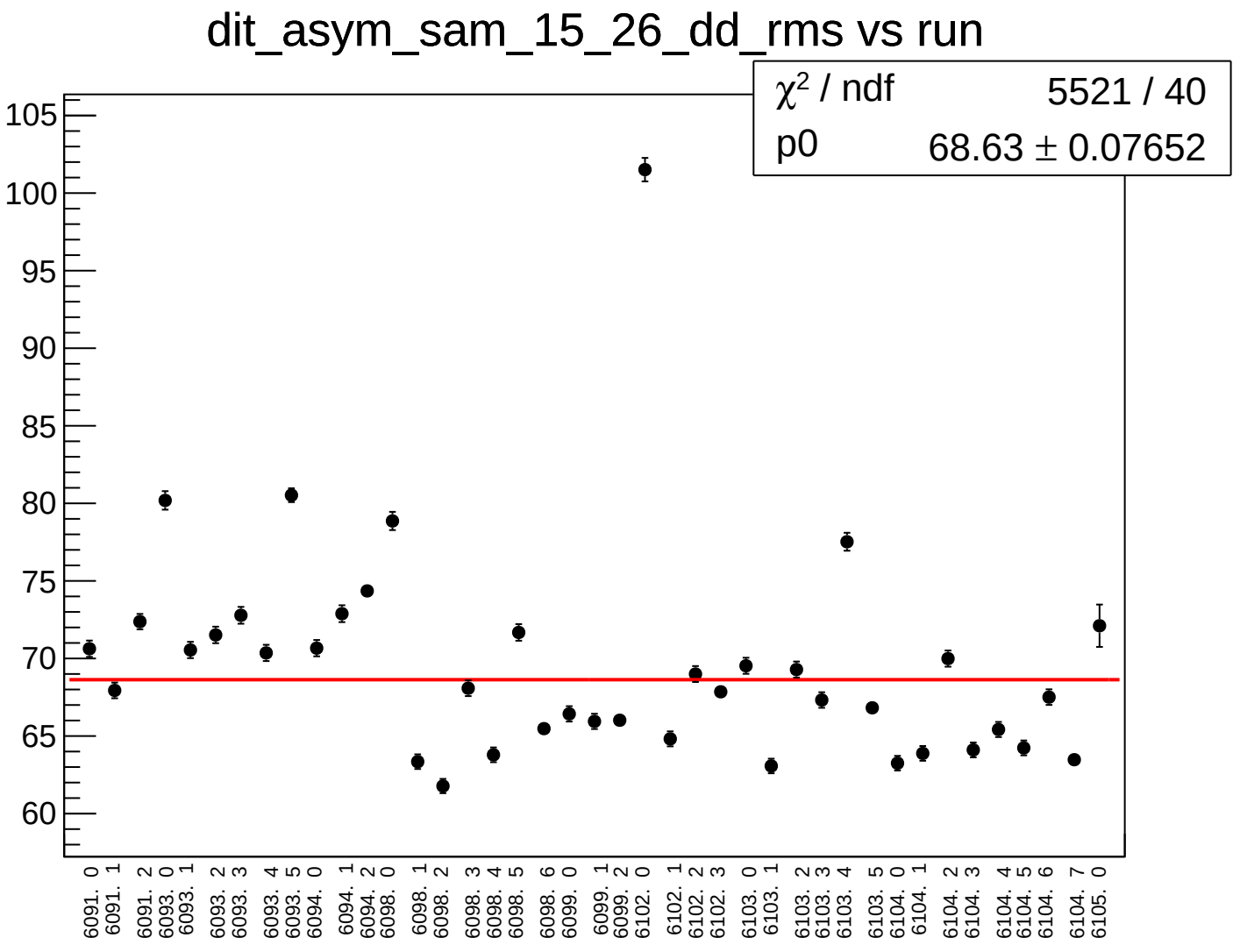

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

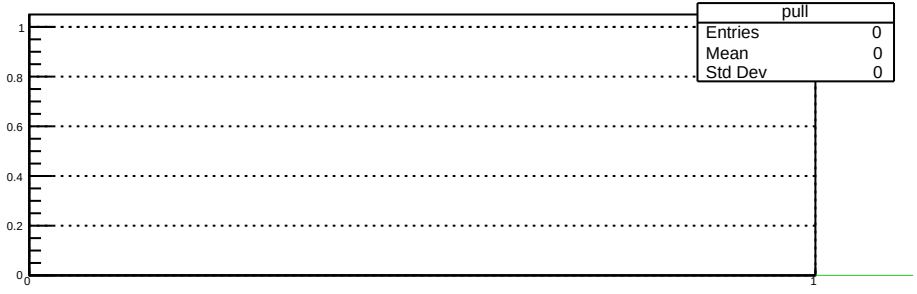

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

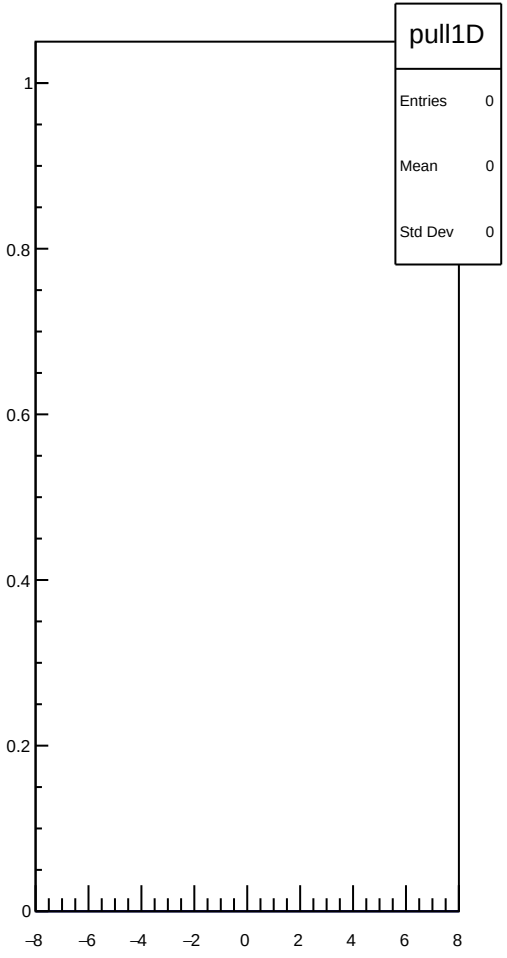

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

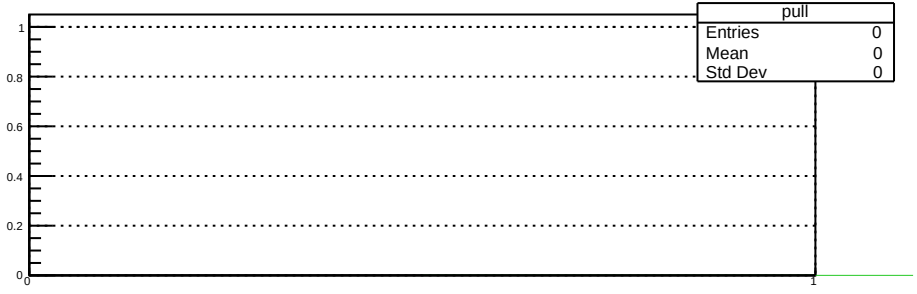

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 45 / 40
p0 −17.98 ± 108.2
2000
1000
0
−1000
−2000
−3000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 12.66
Std Dev 13.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

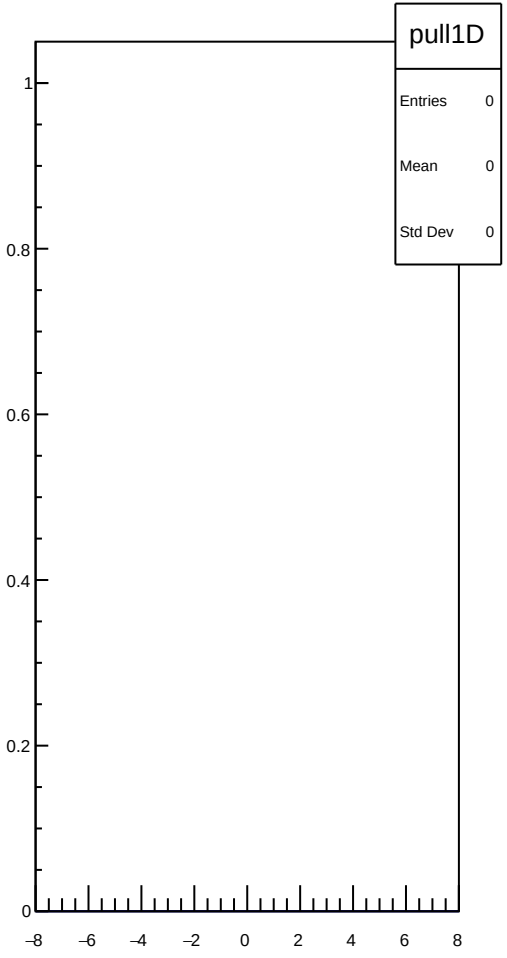

pull1D
Entries 41
Mean −0.02421
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

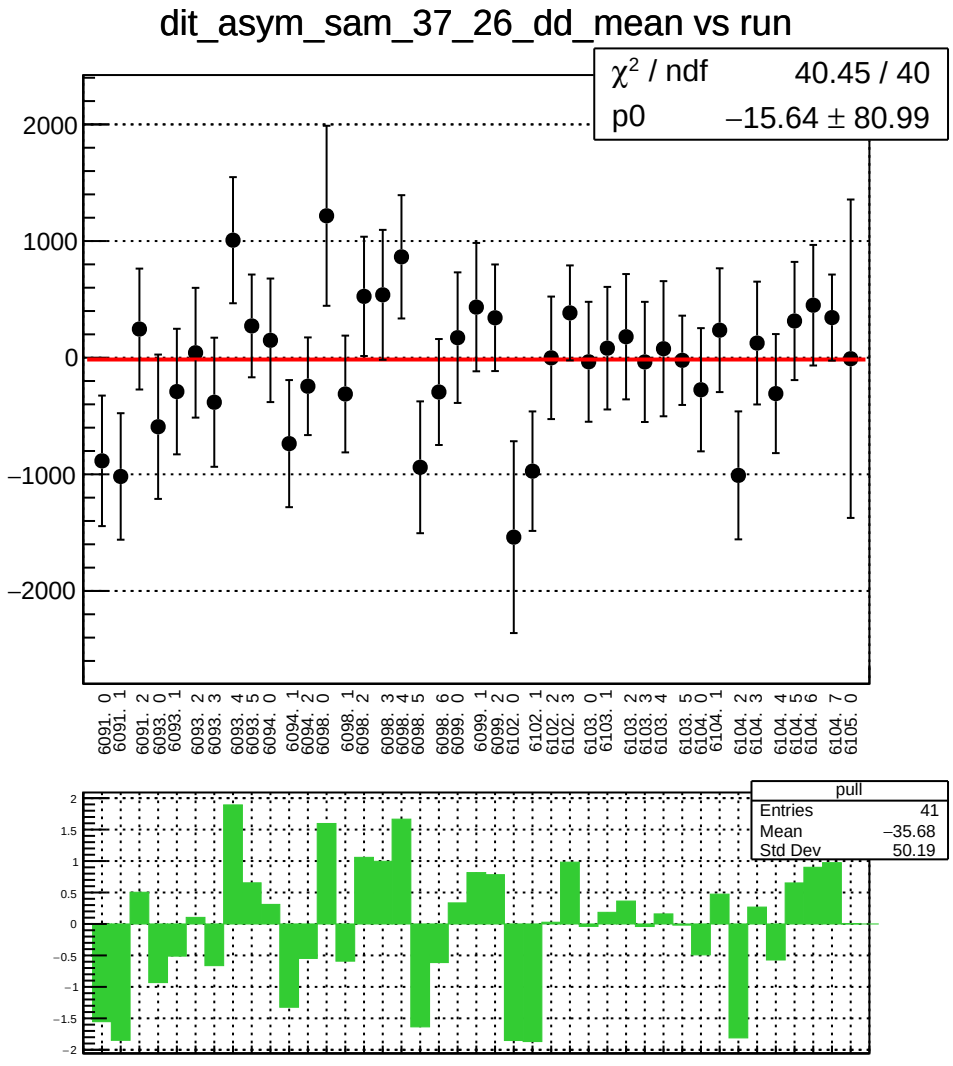

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 5521 / 40
p0 68.63 ± 0.07652
105
100
95
90
85
80
75
70
65
60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

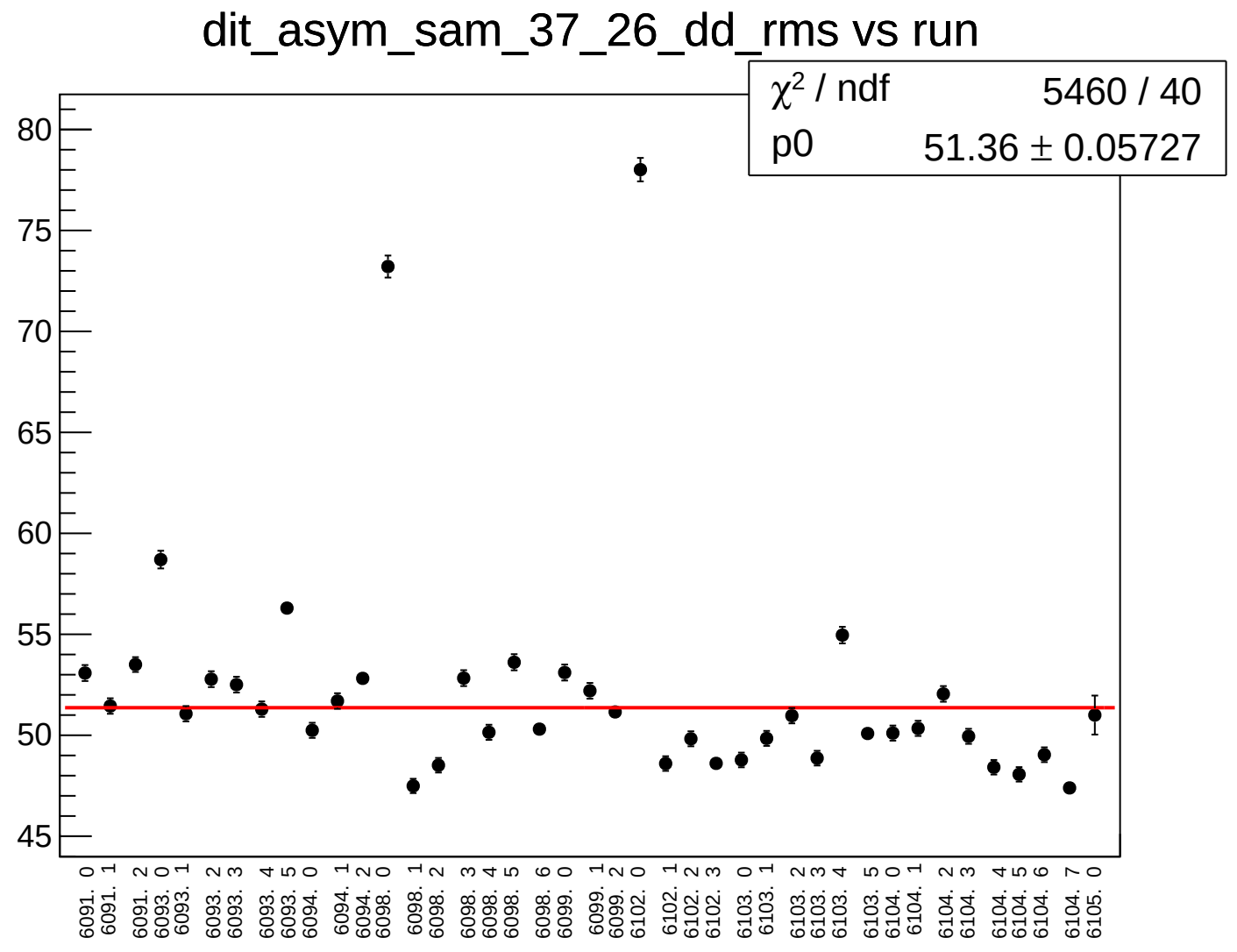

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

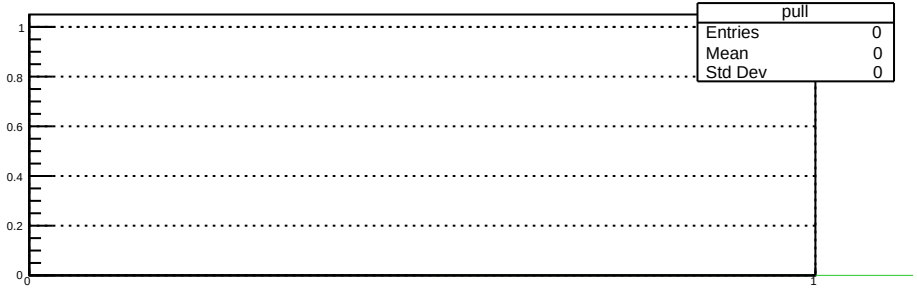

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

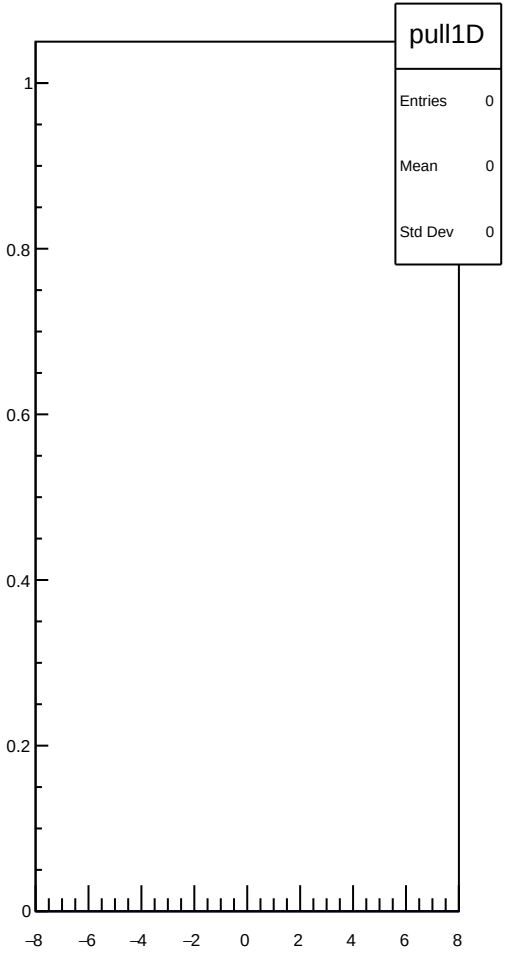

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

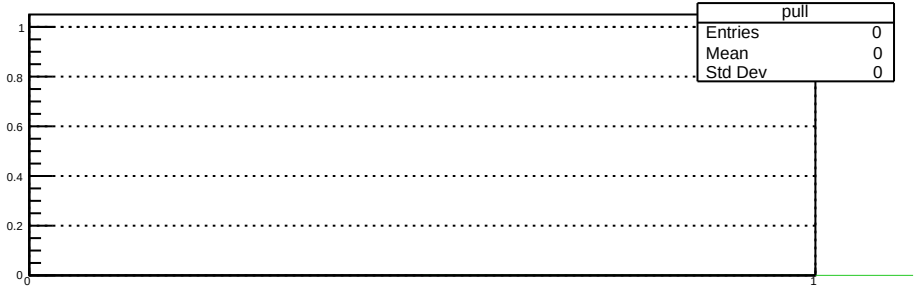

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

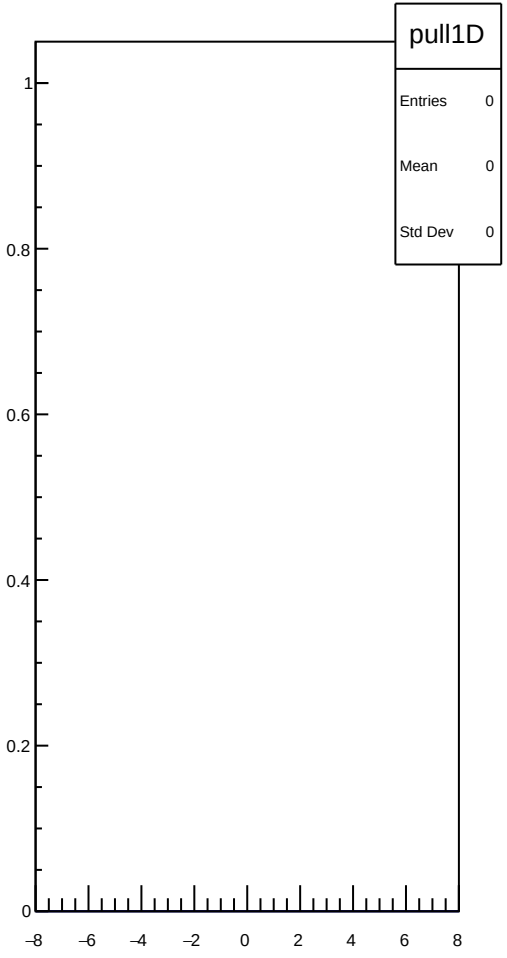

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 40.45 / 40
p0 −15.64 ± 80.99
2000
1000
0
−1000
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −35.68
Std Dev 50.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.0293
Std Dev 0.9929
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

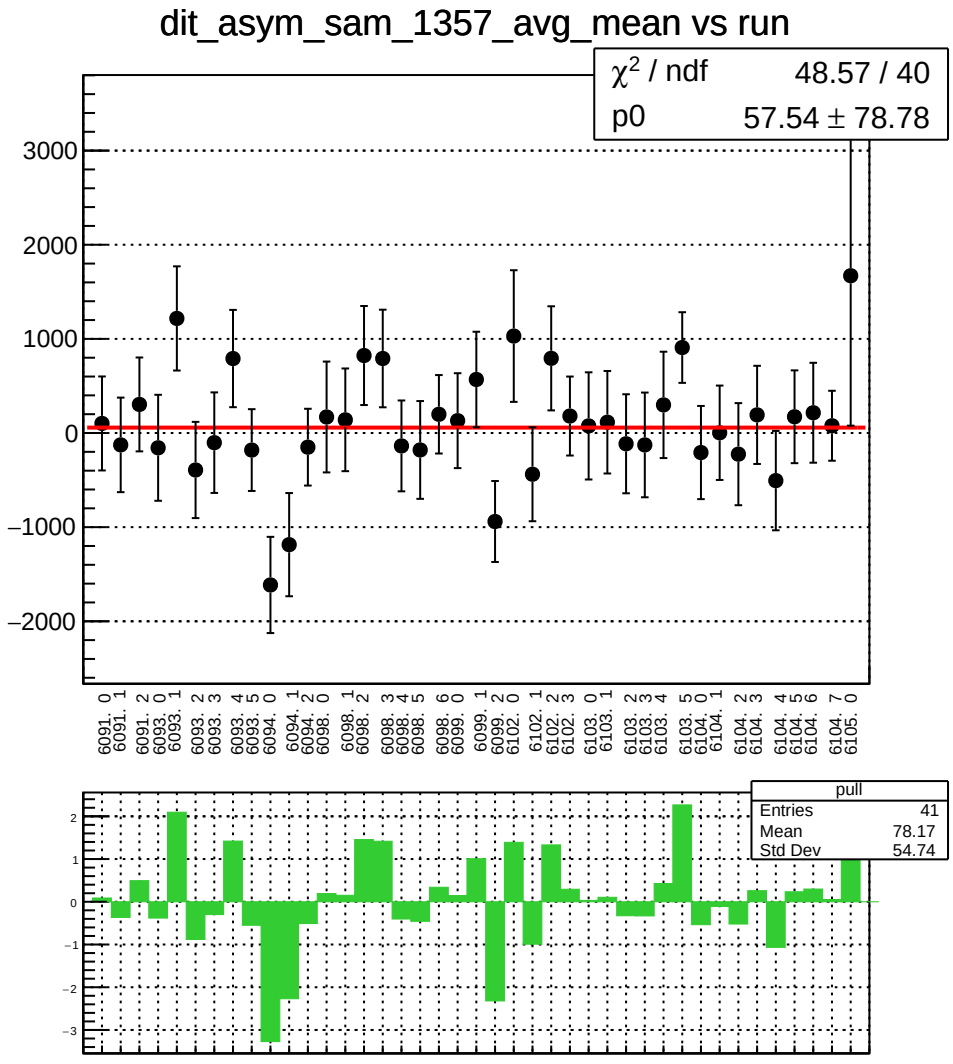

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5460 / 40
p0 51.36 ± 0.05727
80
75
70
65
60
55
50
45
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

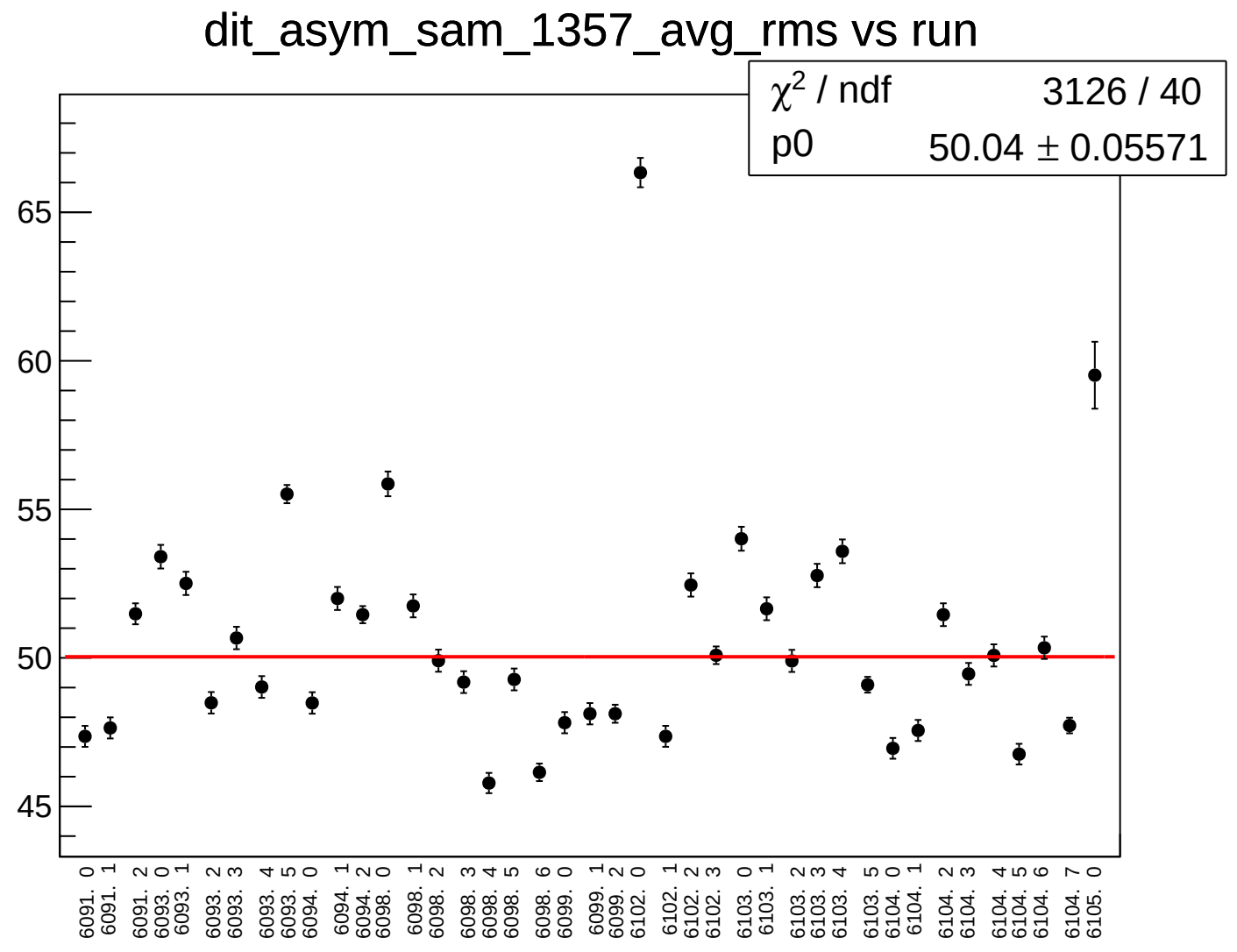

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

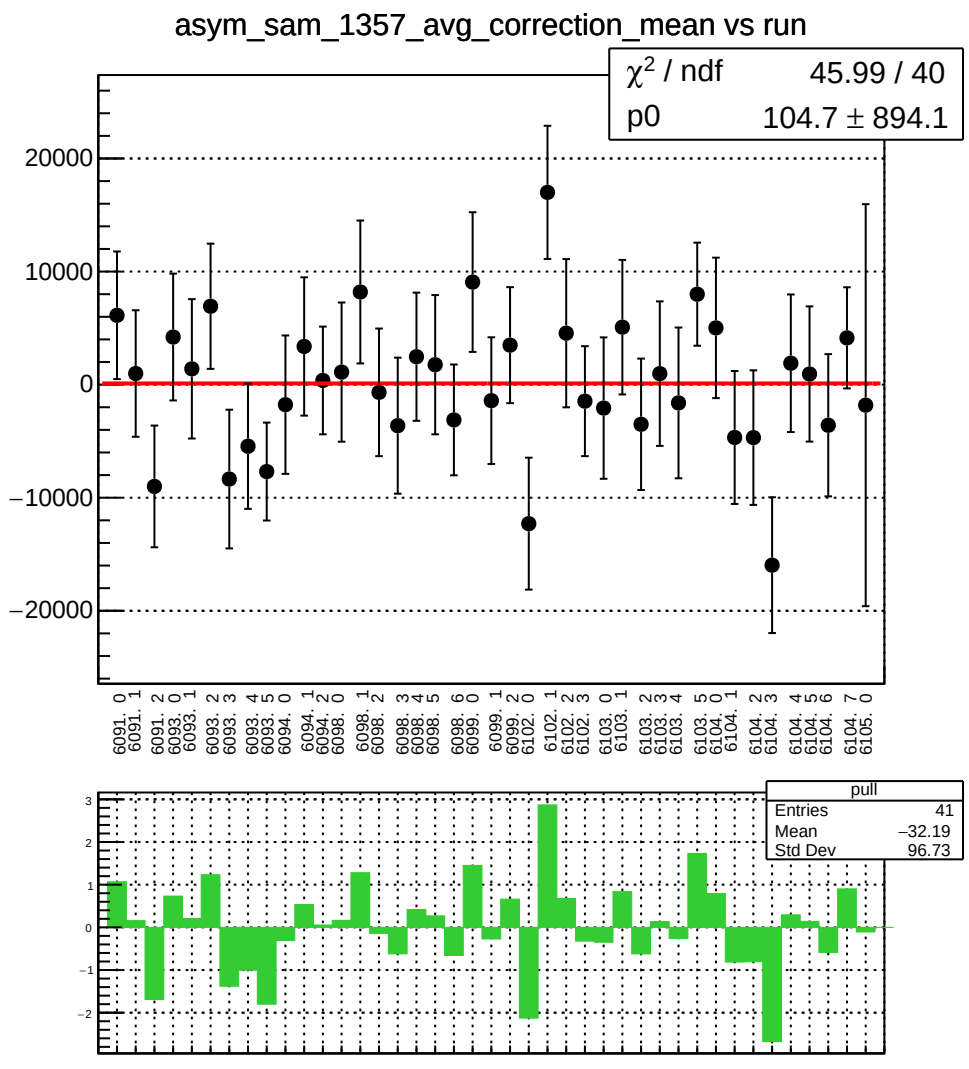

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

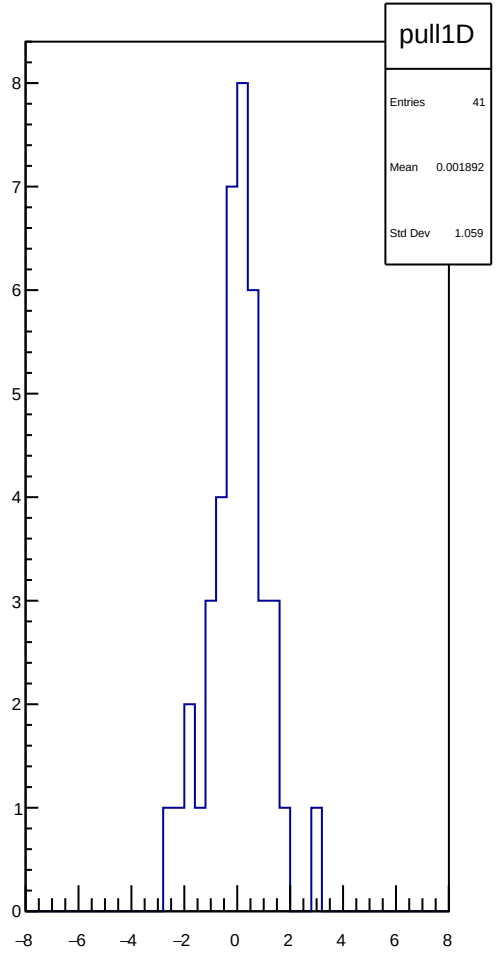

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

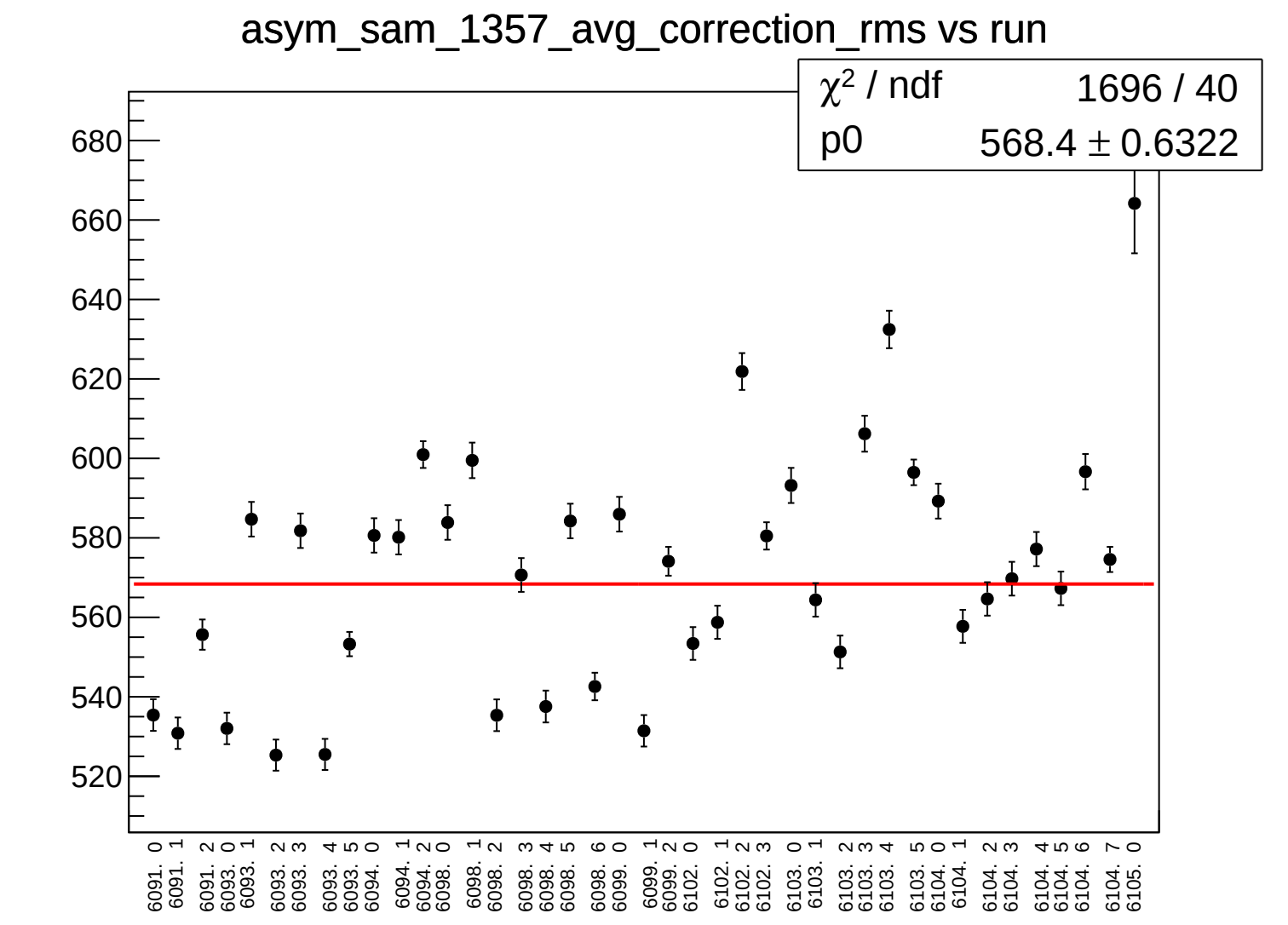

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

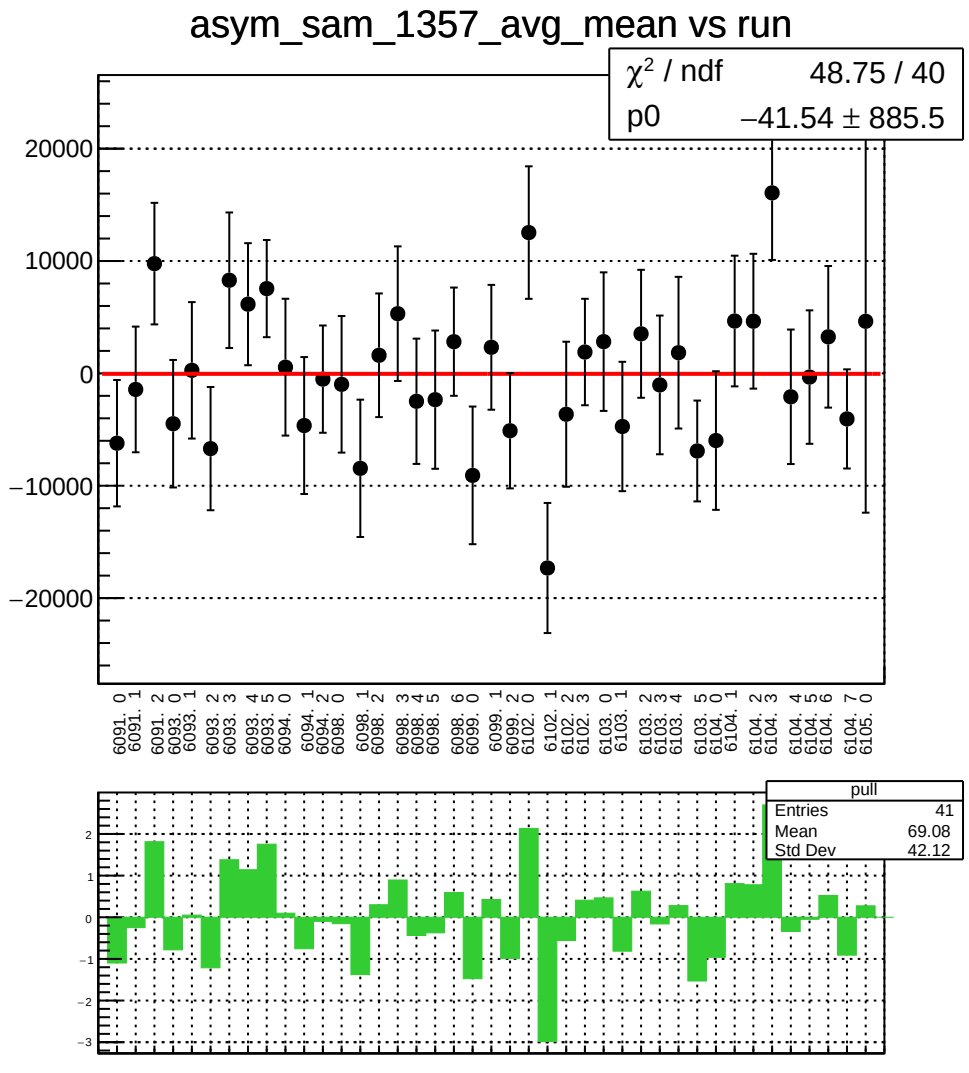

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 48.57 / 40
p0 57.54 ± 78.78
3000
2000
1000
0
−1000
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 78.17
Std Dev 54.74
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.02236
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

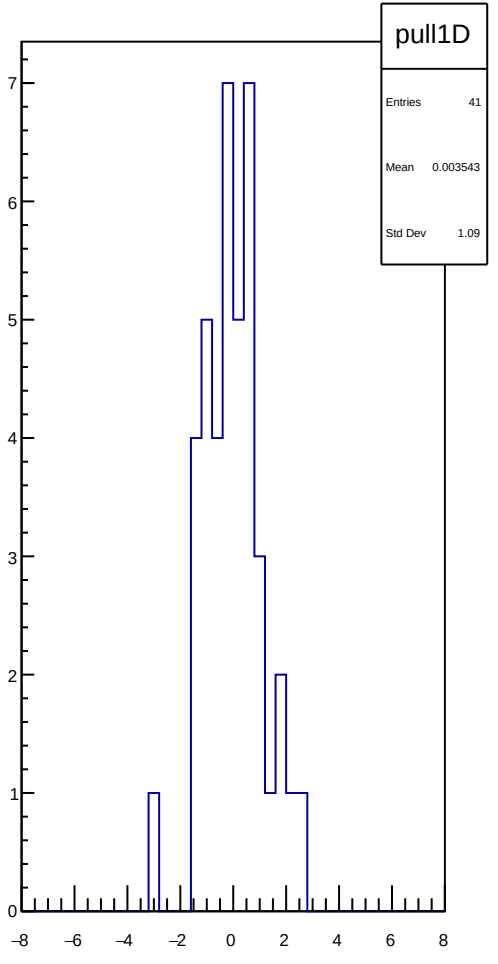

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3126 / 40
p0 50.04 ± 0.05571
65
60
55
50
45
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

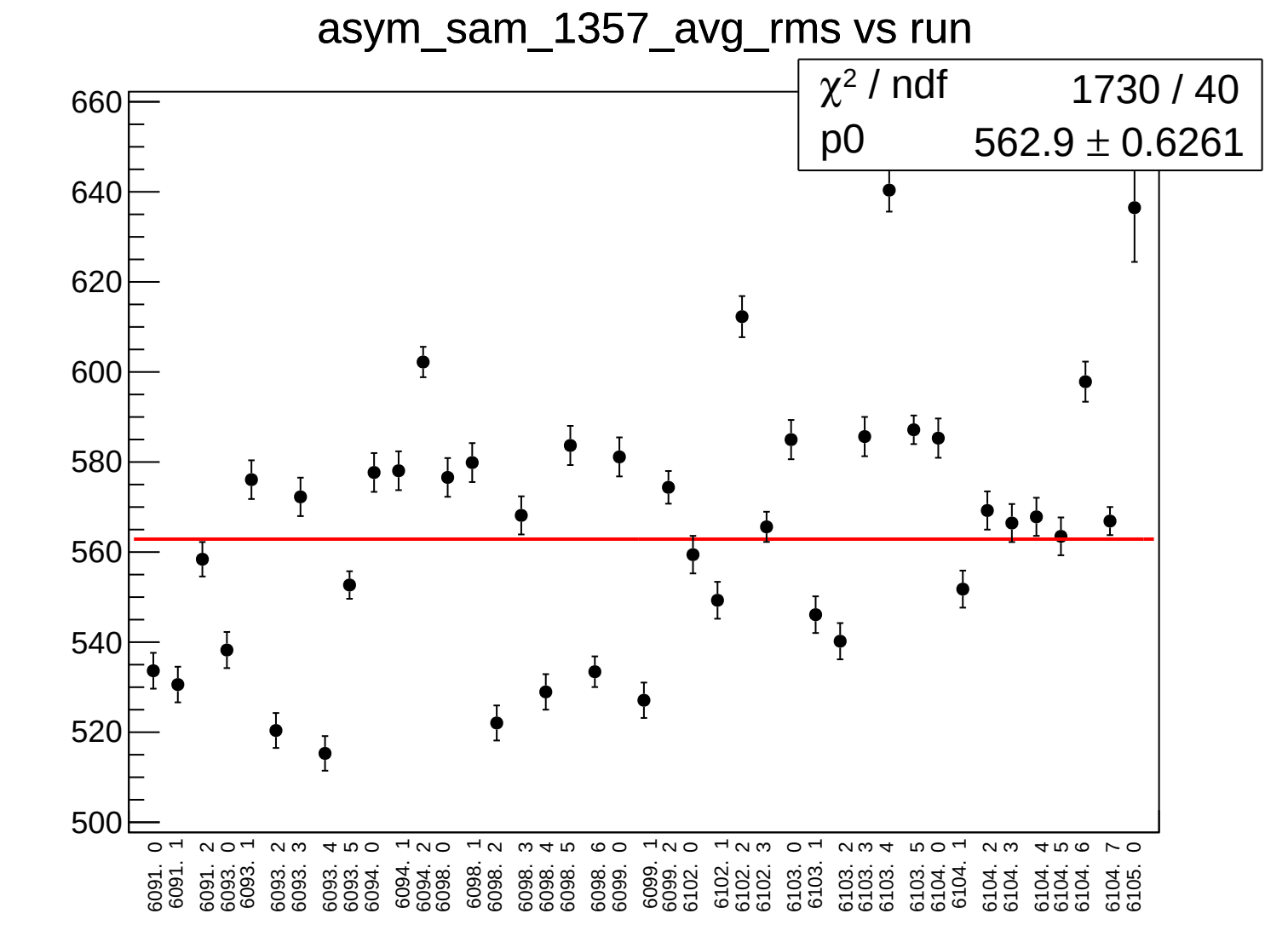

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 45.99 / 40
p0 104.7 ± 894.1
20000
10000
0
−10000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −32.19
Std Dev 96.73
3
2
1
0
−1
−2

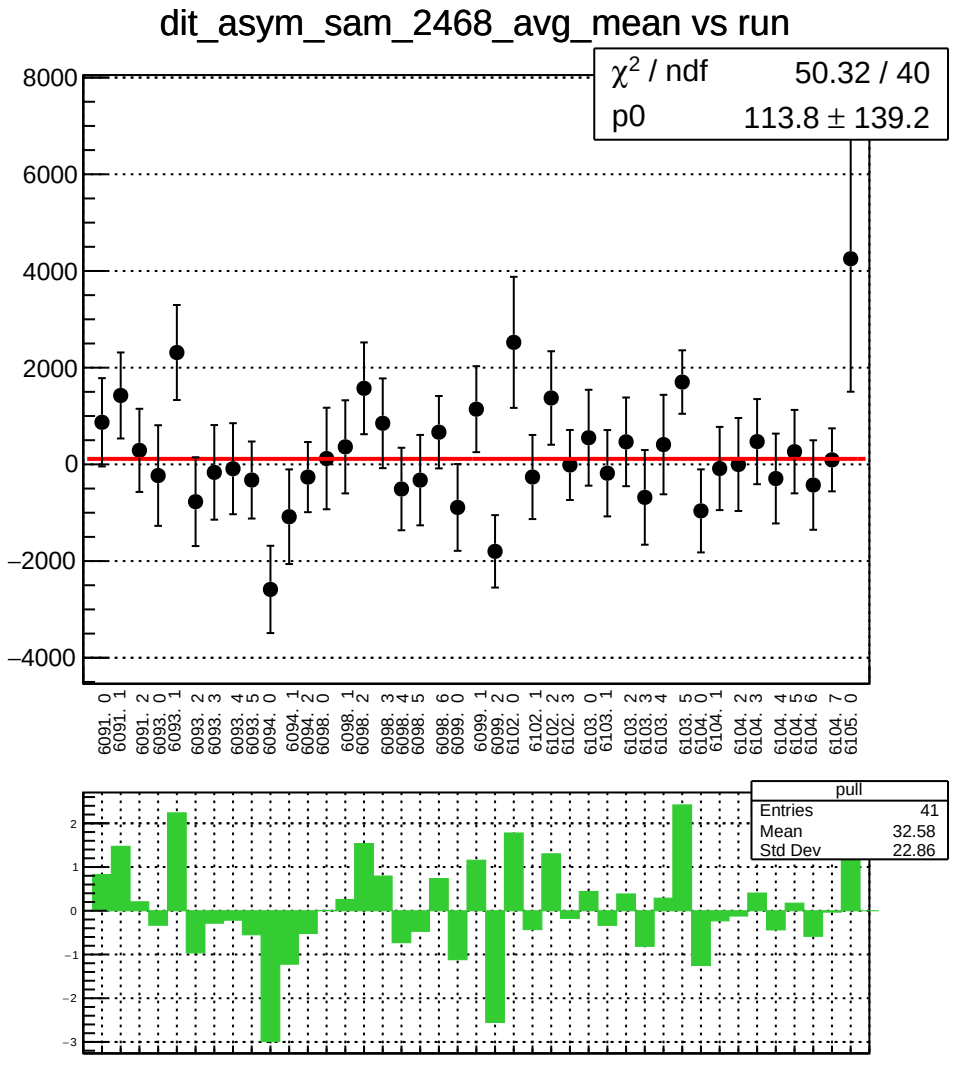

pull1D
Entries 41
Mean 0.001892
Std Dev 1.059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

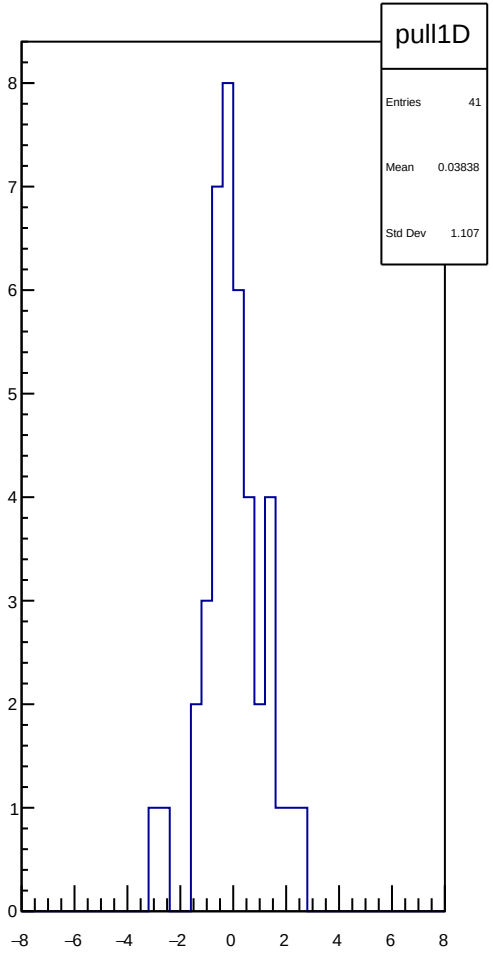

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1696 / 40
p0 568.4 ± 0.6322
680
660
640
620
600
580
560
540
520
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

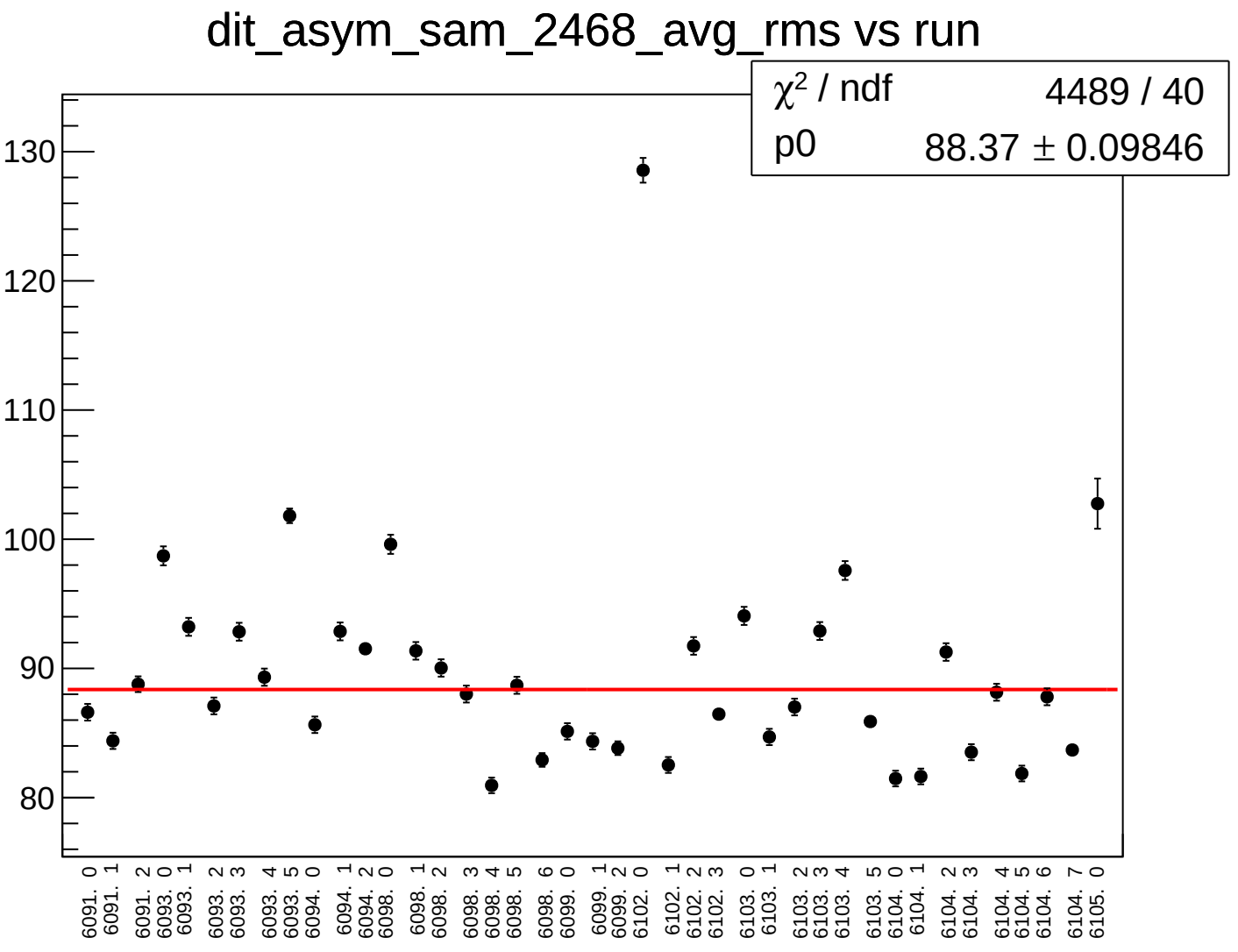

asym_sam_1357_avg_mean vs run
χ² / ndf 48.75 / 40
p0 −41.54 ± 885.5
20000
10000
0
−10000
−20000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 69.08
Std Dev 42.12
2
1
0
−1
−2
−3

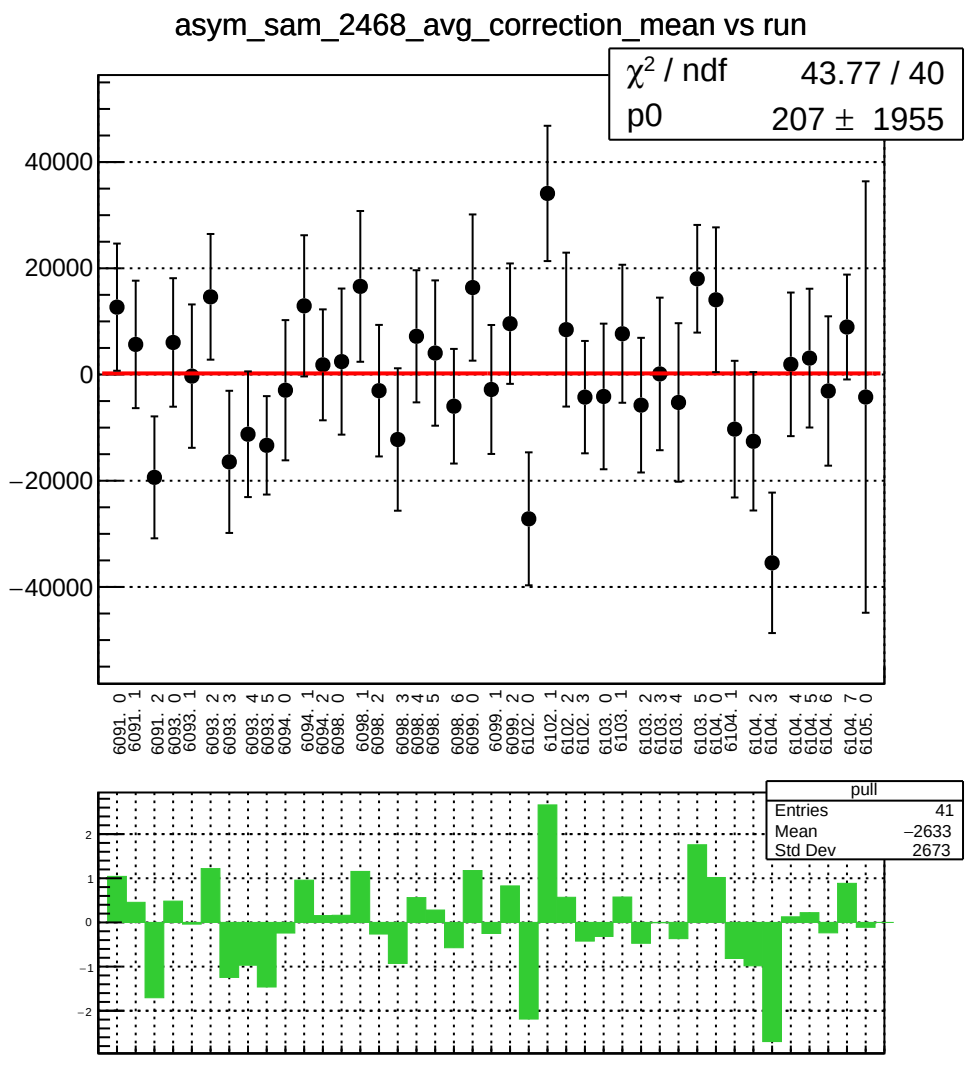

pull1D
Entries 41
Mean 0.003543
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

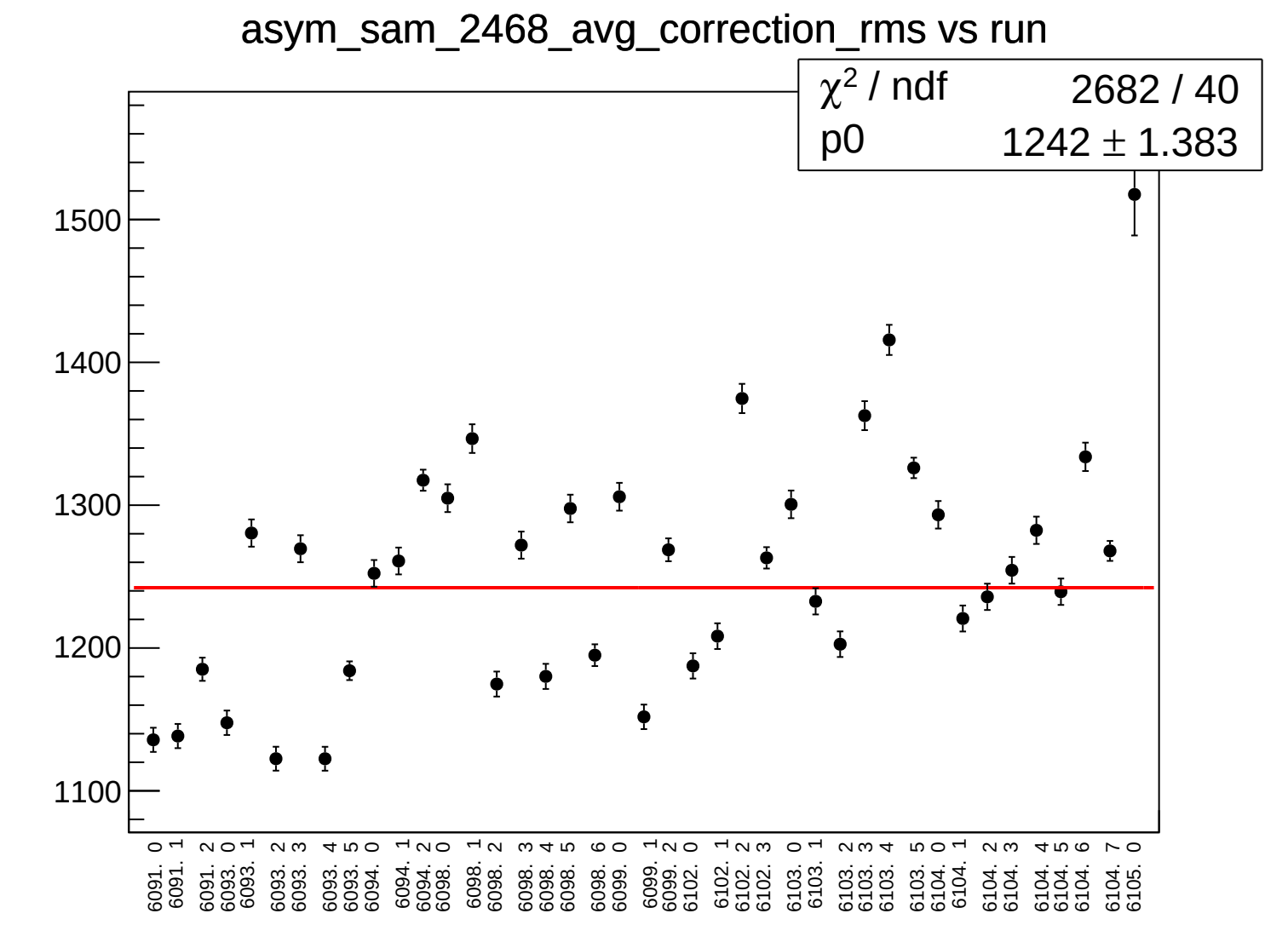

asym_sam_1357_avg_rms vs run
χ² / ndf 1730 / 40
p0 562.9 ± 0.6261
660
640
620
600
580
560
540
520
500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

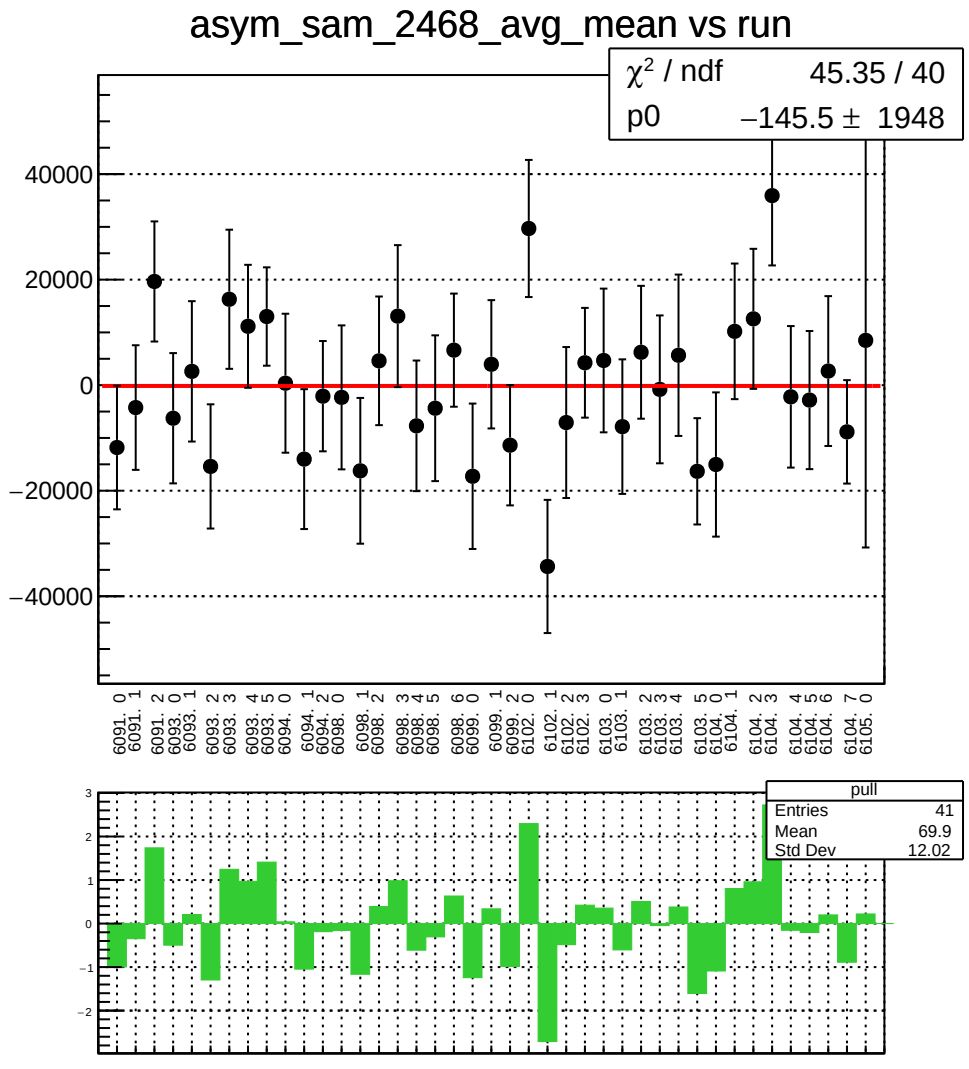

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 50.32 / 40
p0 113.8 ± 139.2
8000
6000
4000
2000
0
−2000
−4000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 32.58
Std Dev 22.86
2
1
0
−1
−2
−3

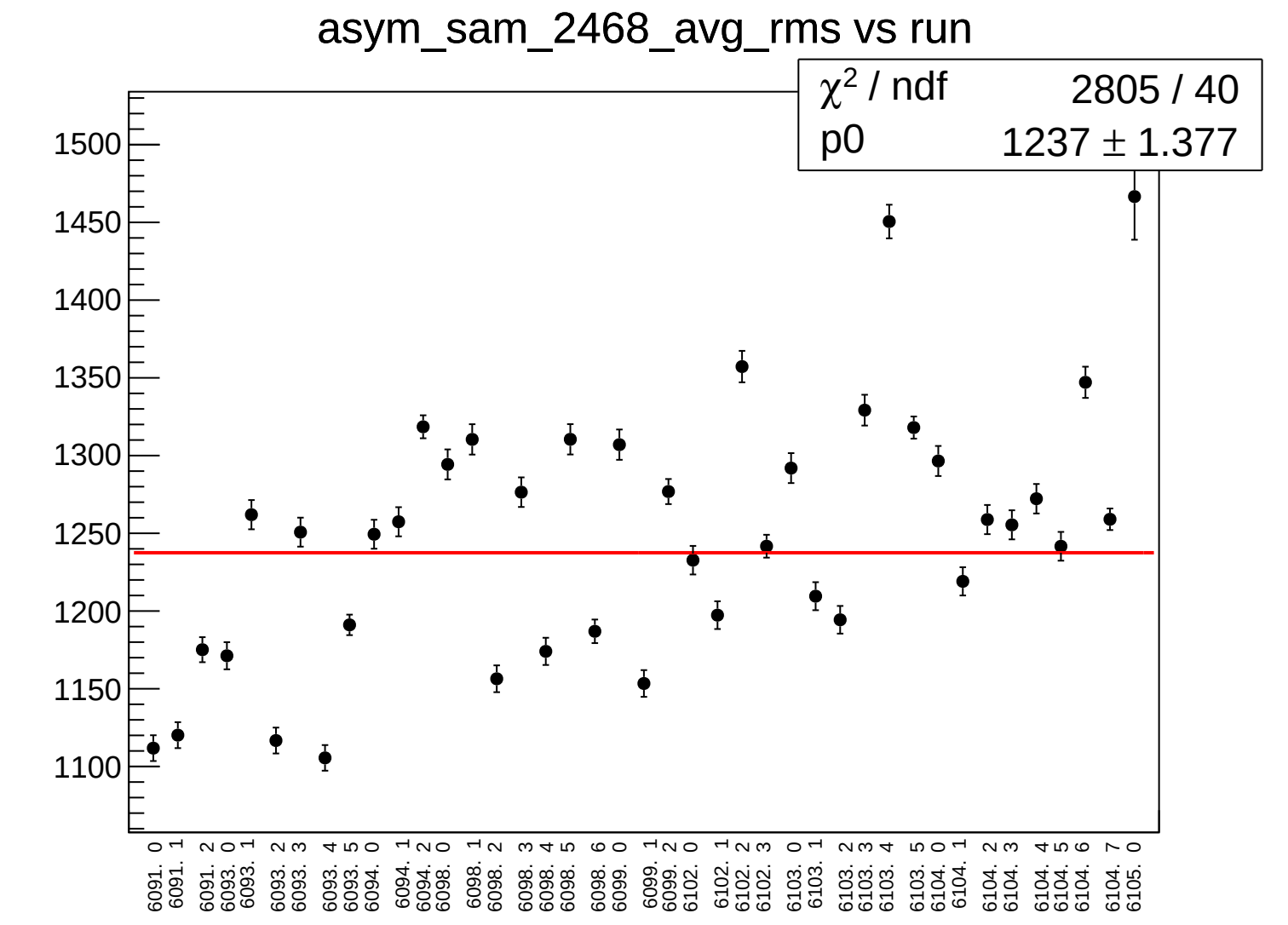

pull1D
Entries 41
Mean 0.03838
Std Dev 1.107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

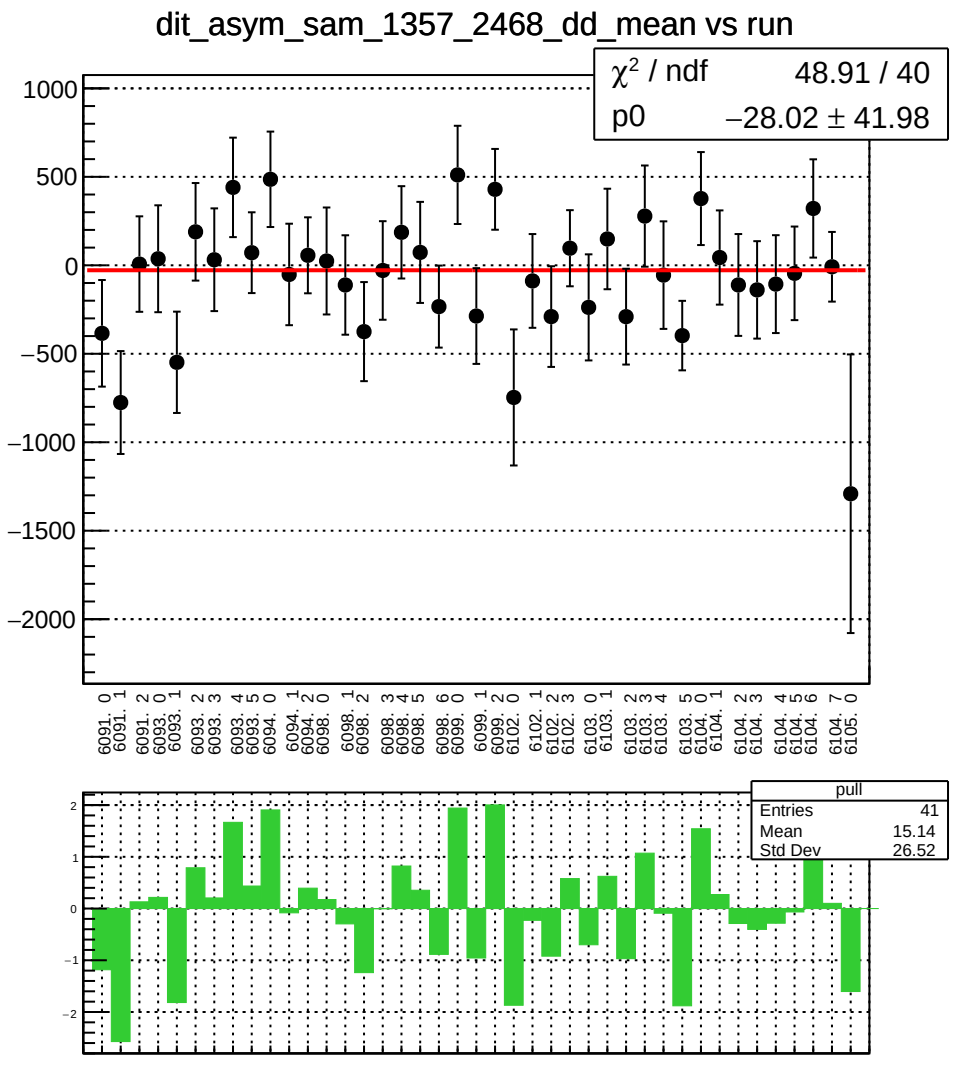

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4489 / 40
p0 88.37 ± 0.09846
130
120
110
100
90
80
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

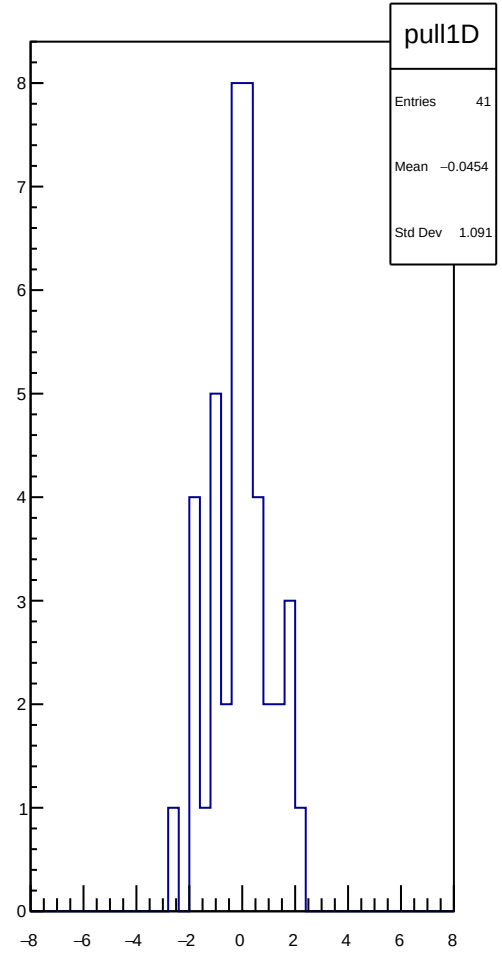

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 43.77 / 40
p0 207 ± 1955
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −2633
Std Dev 2673
2
1
0
−1
−2
pull1D
Entries 41
Mean 8.822e−05
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

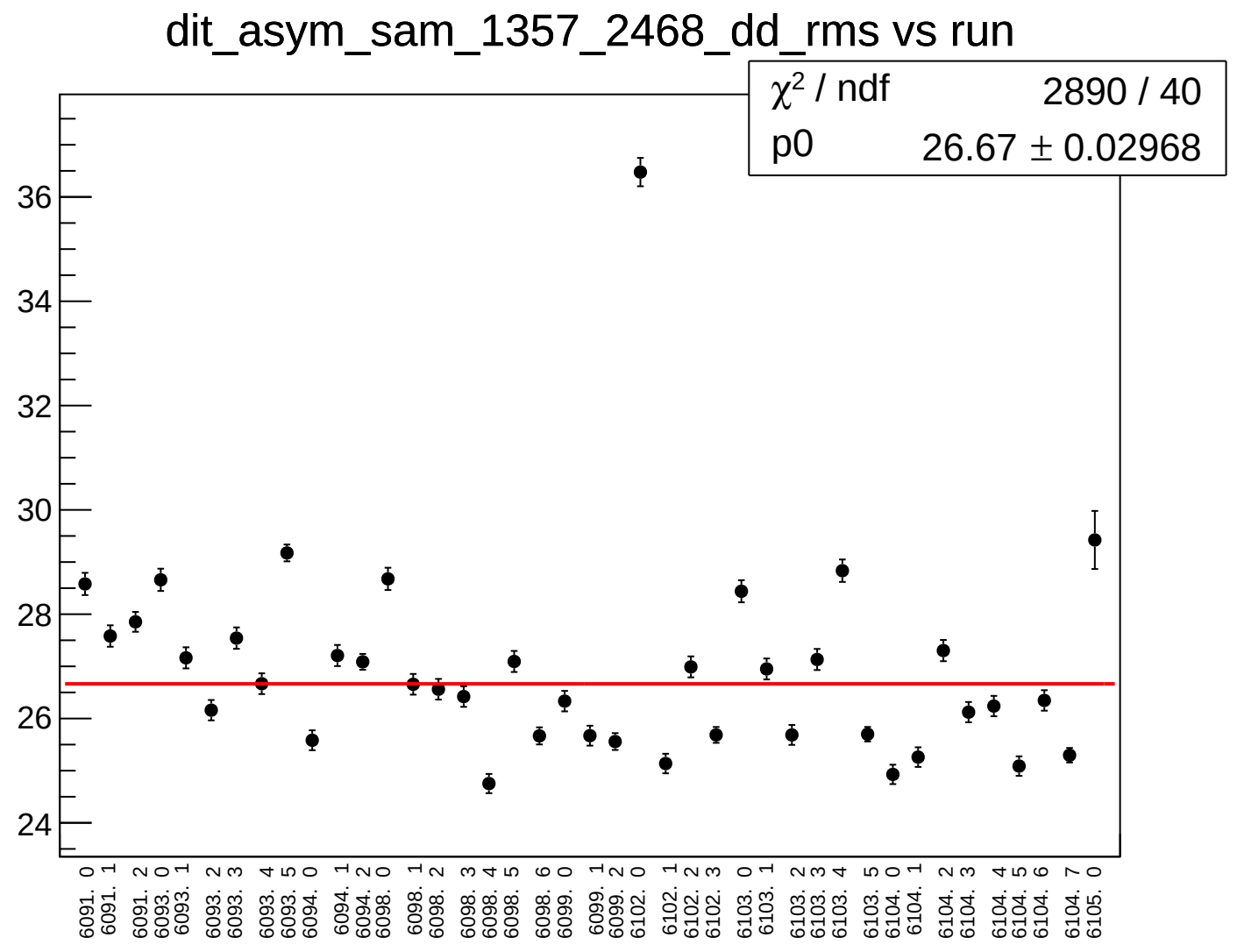

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2682 / 40
p0 1242 ± 1.383
1500
1400
1300
1200
1100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

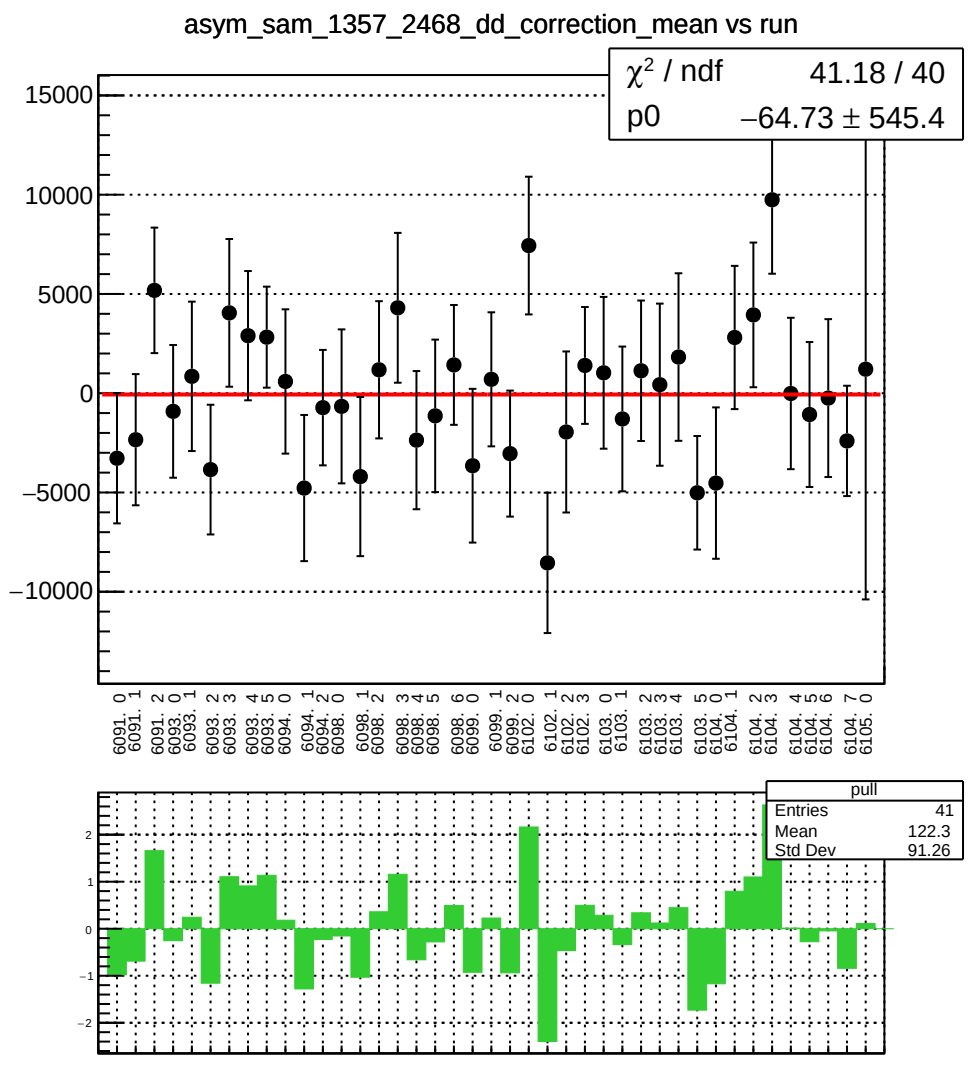

asym_sam_2468_avg_mean vs run
χ² / ndf 45.35 / 40
p0 −145.5 ± 1948
40000
20000
0
−20000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 69.9
Std Dev 12.02
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.005003
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

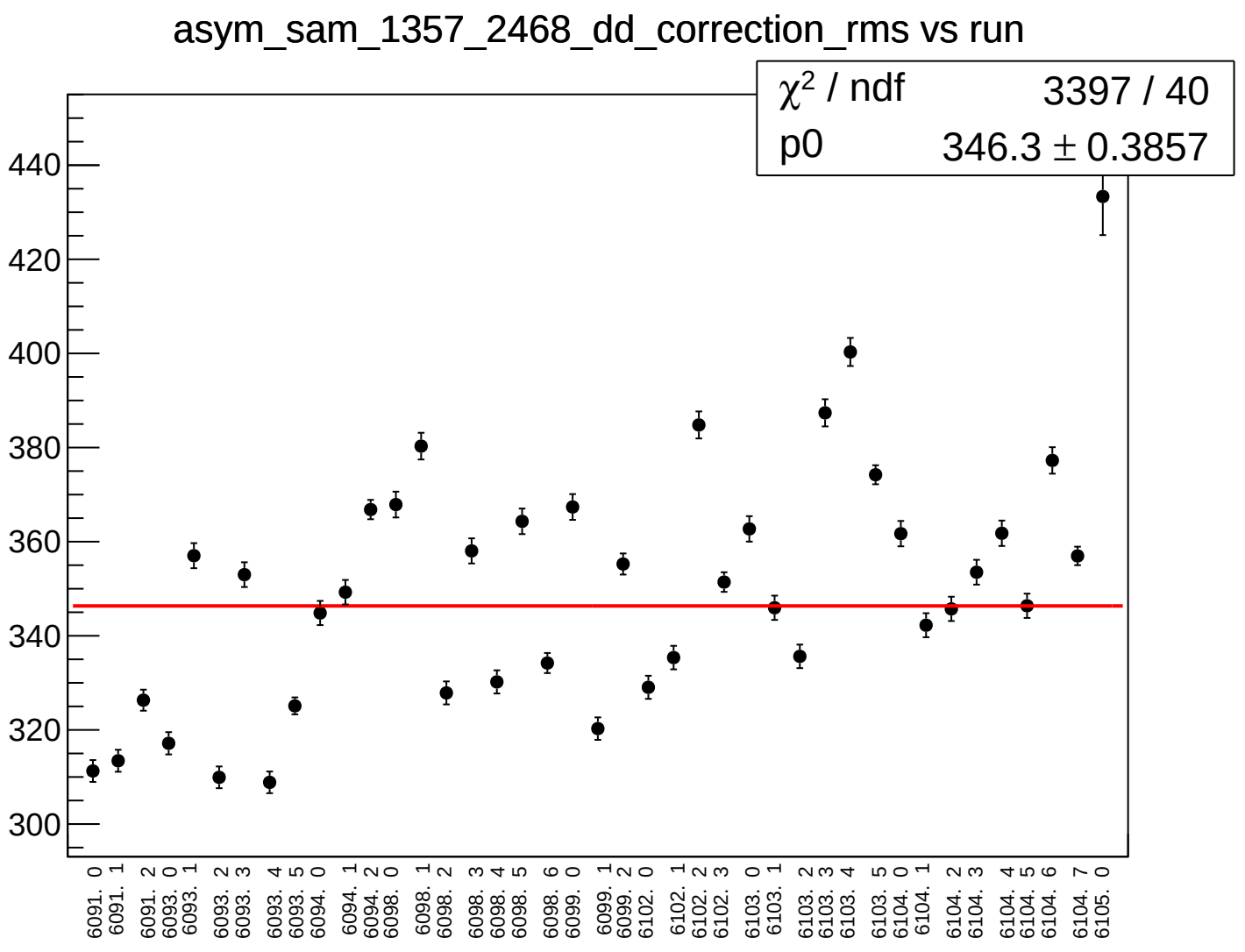

asym_sam_2468_avg_rms vs run
χ² / ndf 2805 / 40
p0 1237 ± 1.377
1500
1450
1400
1350
1300
1250
1200
1150
1100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

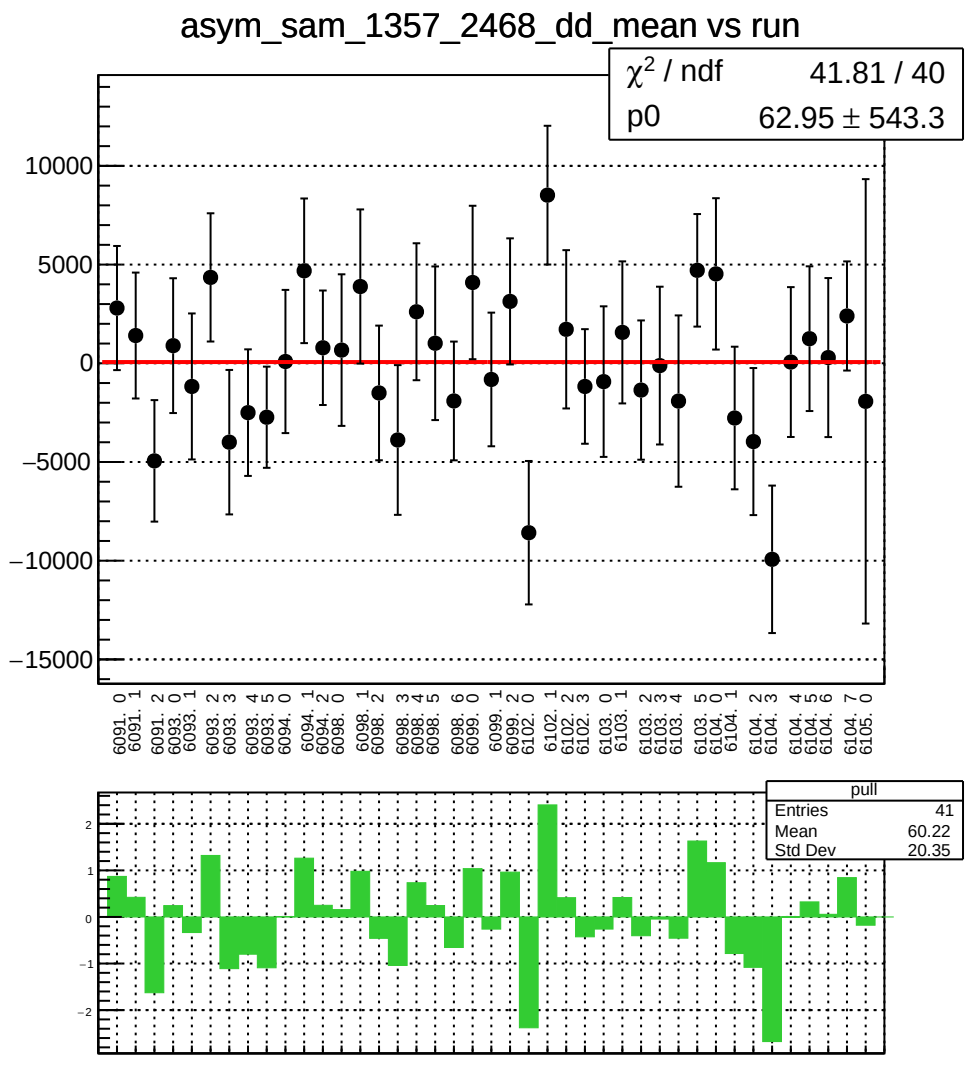

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 48.91 / 40
p0 −28.02 ± 41.98
1000
500
0
−500
−1000
−1500
−2000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 15.14
Std Dev 26.52
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.0454
Std Dev 1.091
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 2890 / 40
p0 26.67 ± 0.02968
36
34
32
30
28
26
24
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0


asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 41.18 / 40
p0 −64.73 ± 545.4
15000
10000
5000
0
−5000
−10000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 122.3
Std Dev 91.26
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.003343
Std Dev 1.002
9
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 3397 / 40
p0 346.3 ± 0.3857
440
420
400
380
360
340
320
300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0


asym_sam_1357_2468_dd_mean vs run
χ² / ndf 41.81 / 40
p0 62.95 ± 543.3
10000
5000
0
−5000
−10000
−15000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
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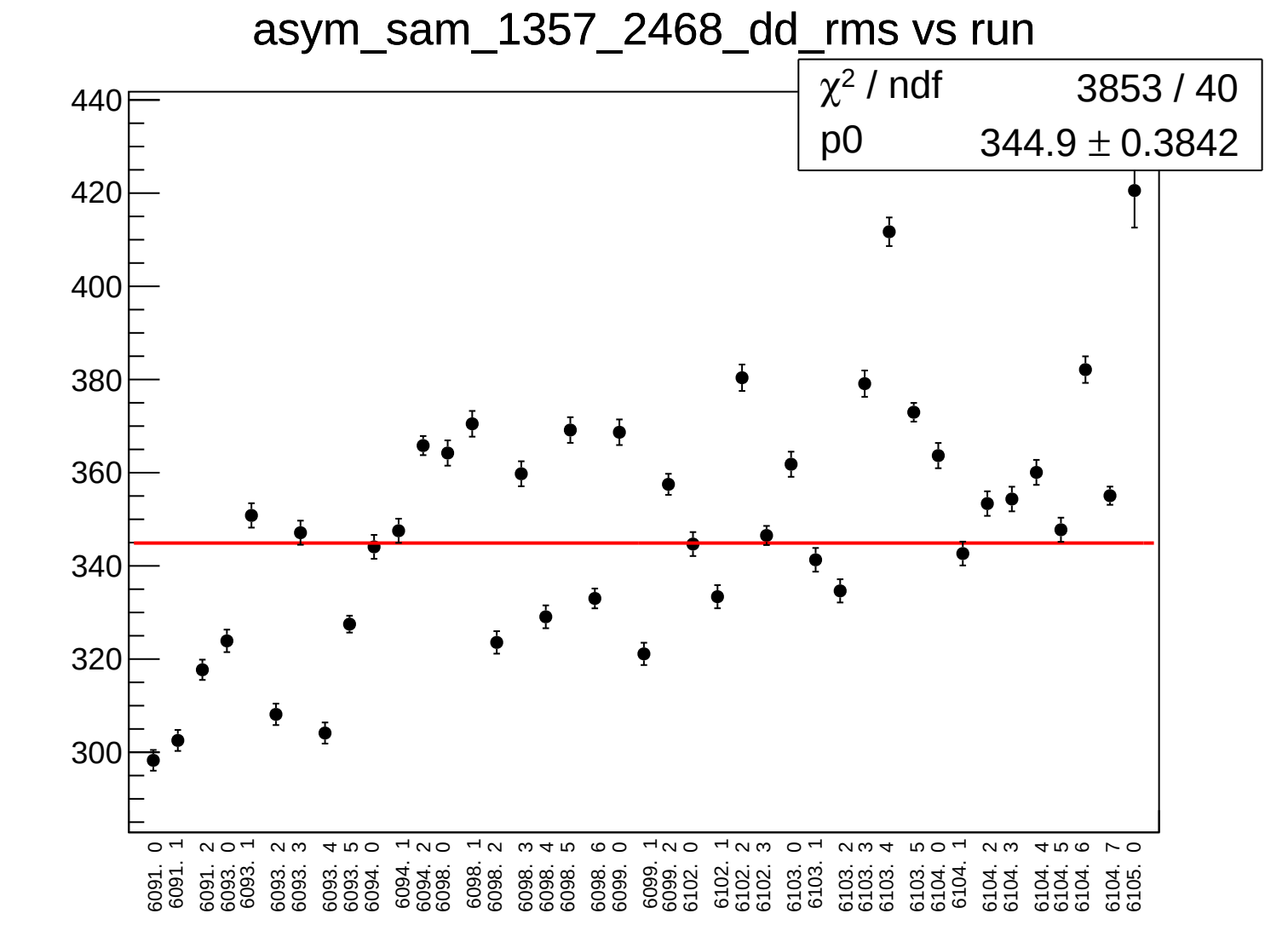
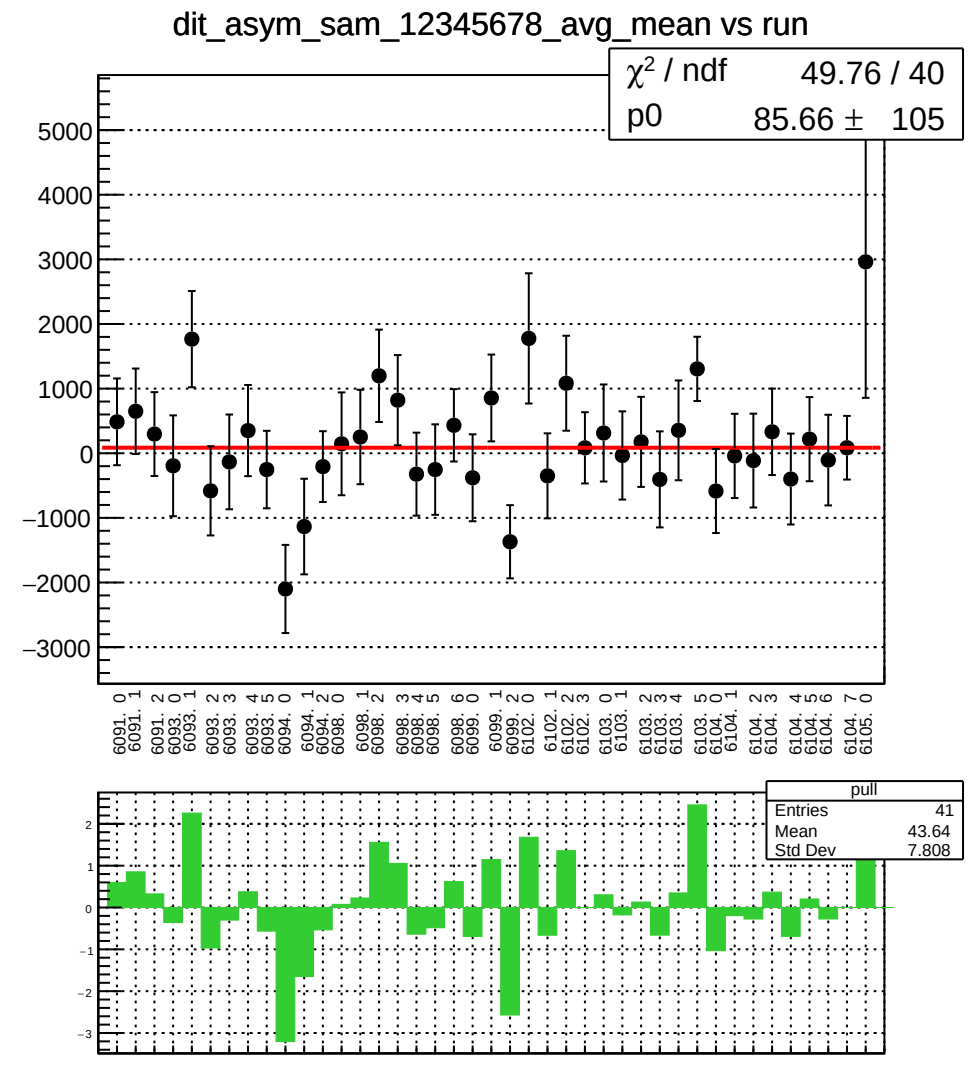
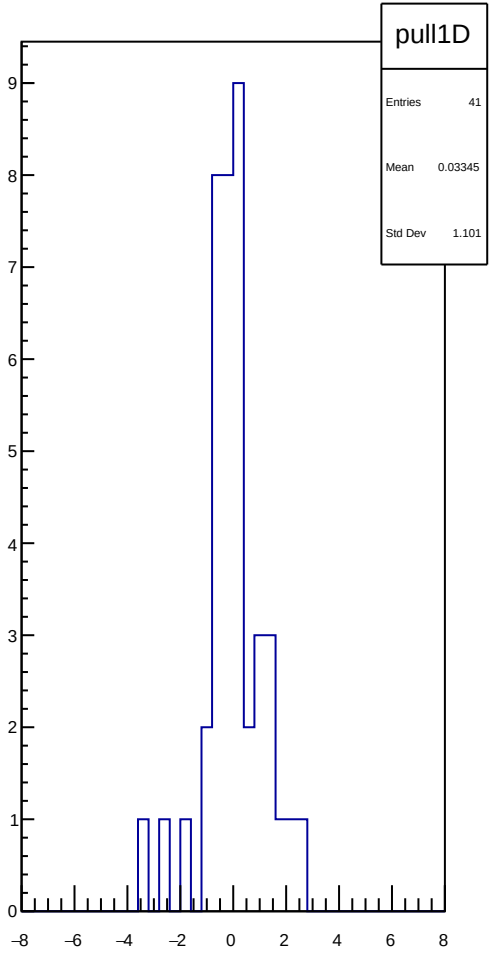
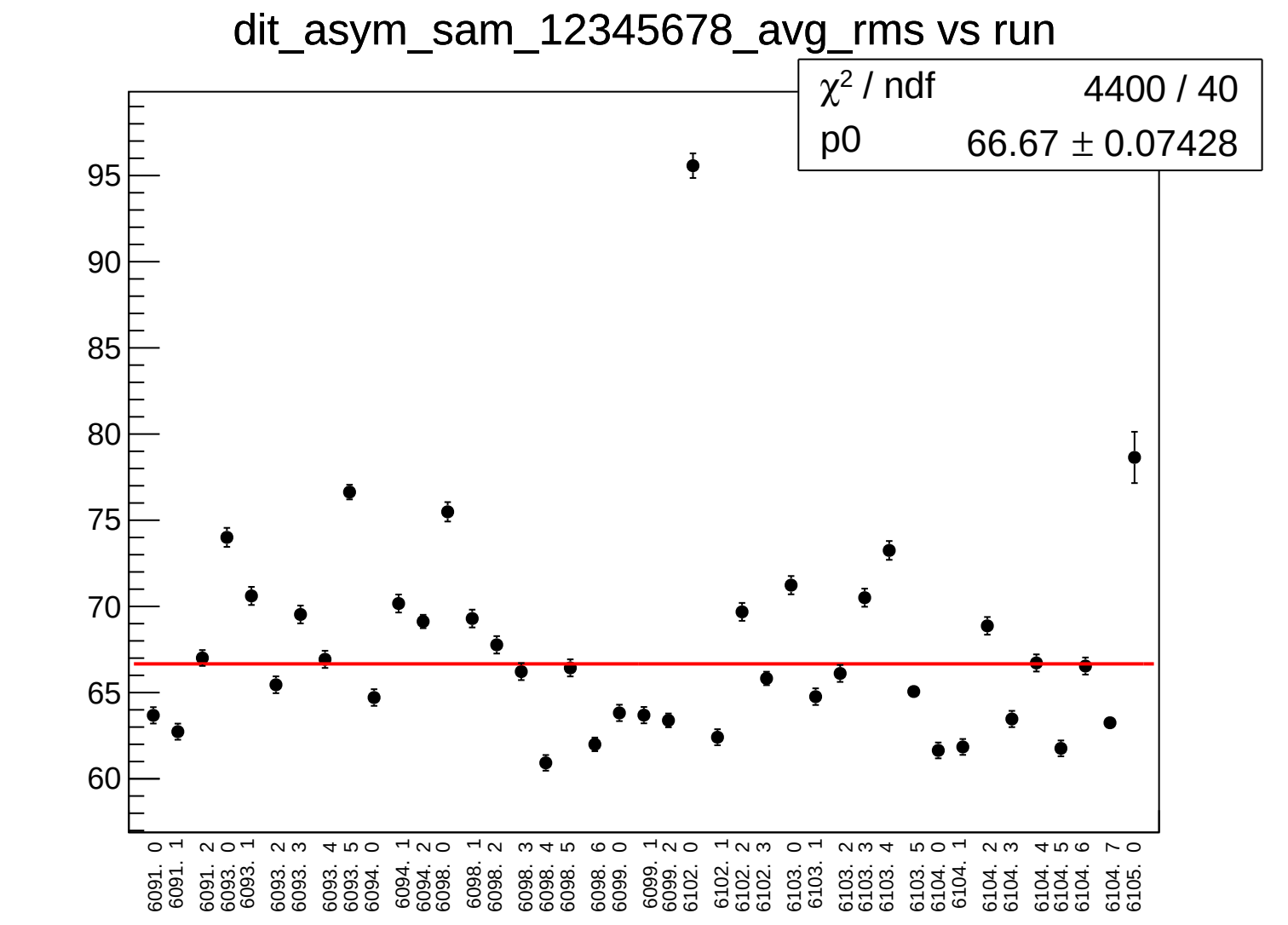
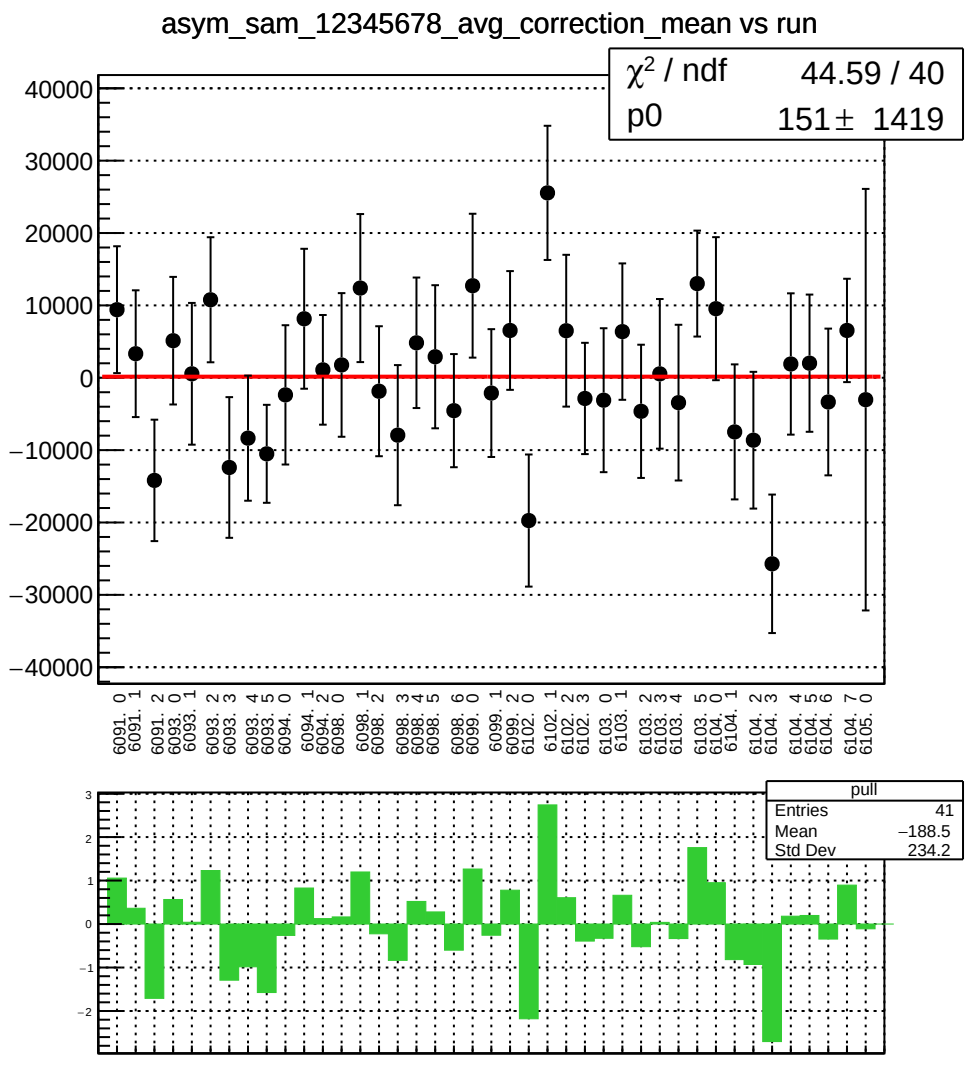
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 60.22
Std Dev 20.35
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.007762
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

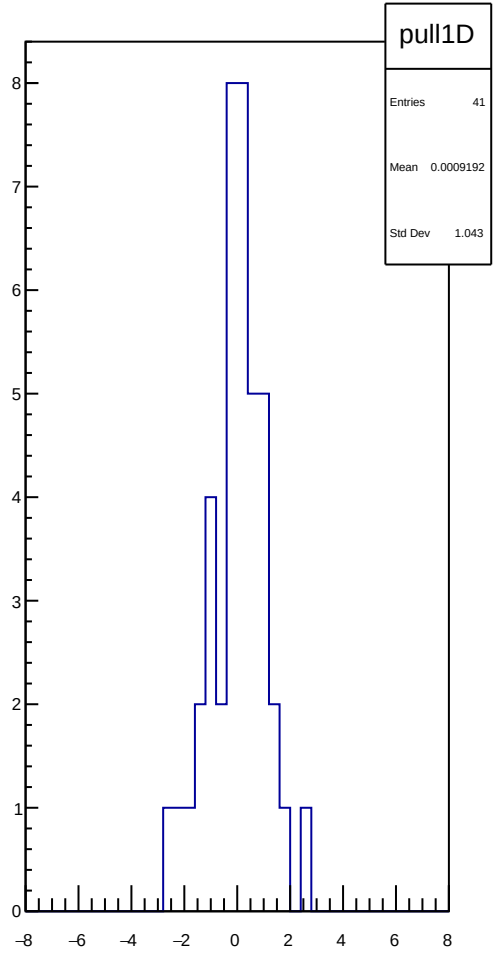

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3853 / 40
p0 344.9 ± 0.3842
440
420
400
380
360
340
320
300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

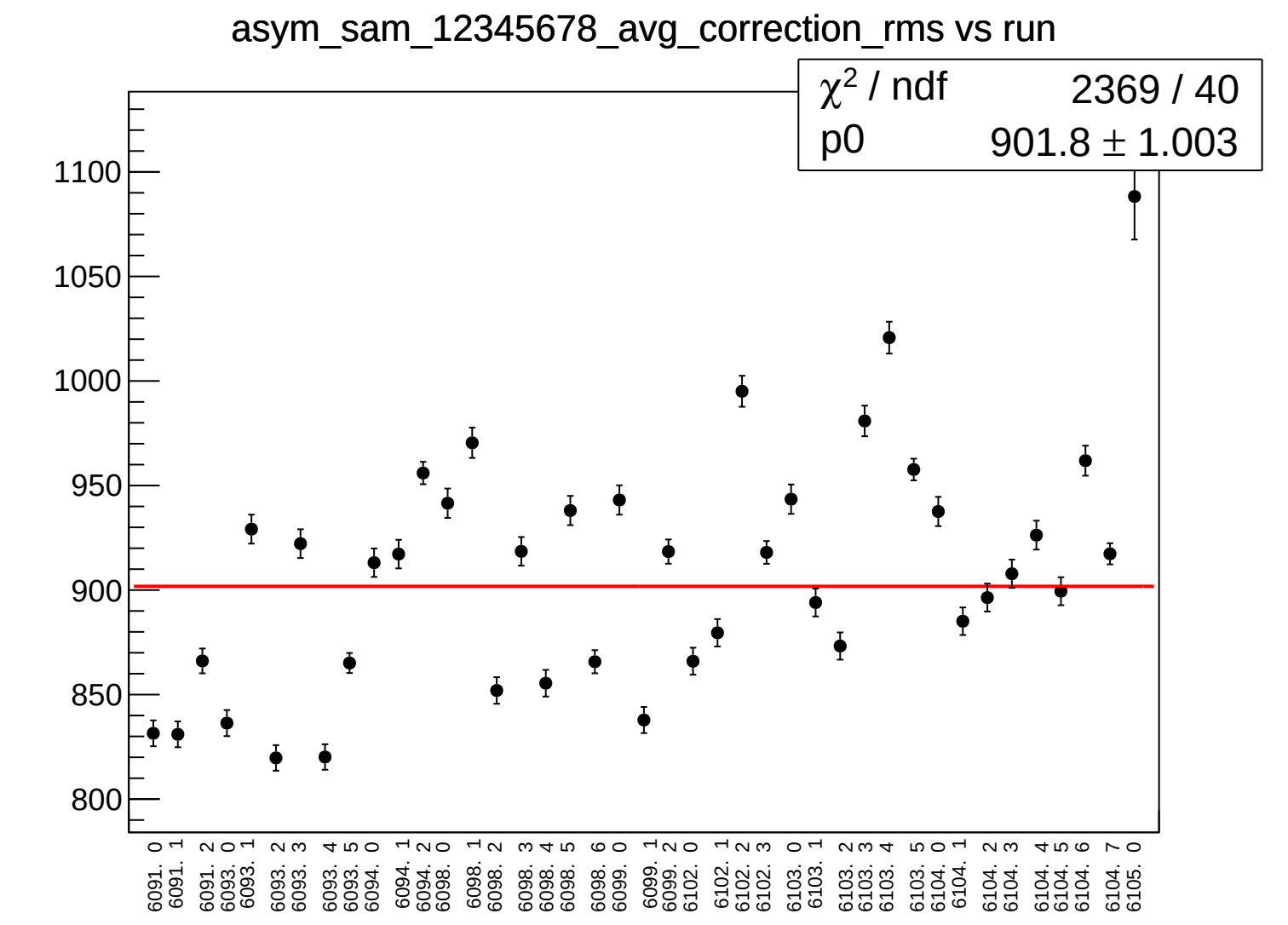

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 49.76 / 40
p0 85.66 ± 105
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 43.64
Std Dev 7.808
2
1
0
−1
−2
−3

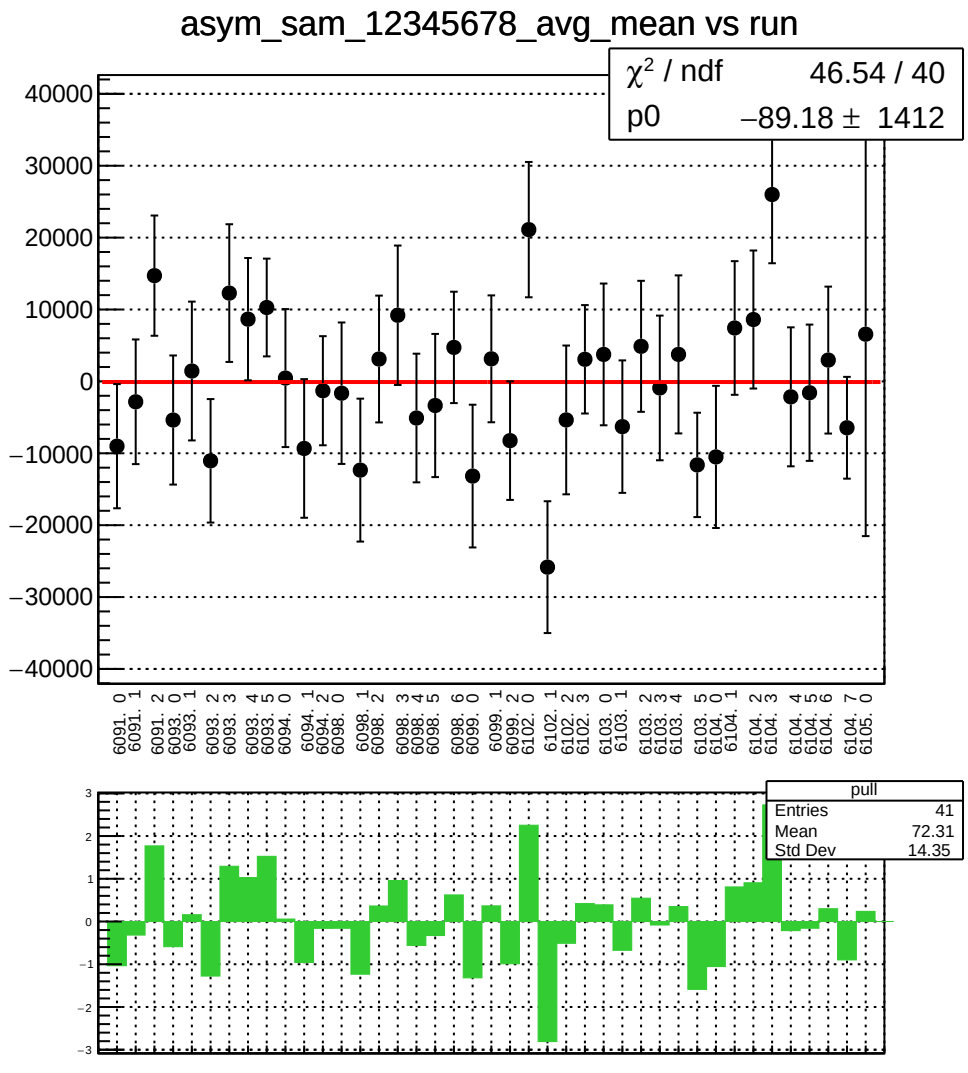

pull1D
Entries 41
Mean 0.03345
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

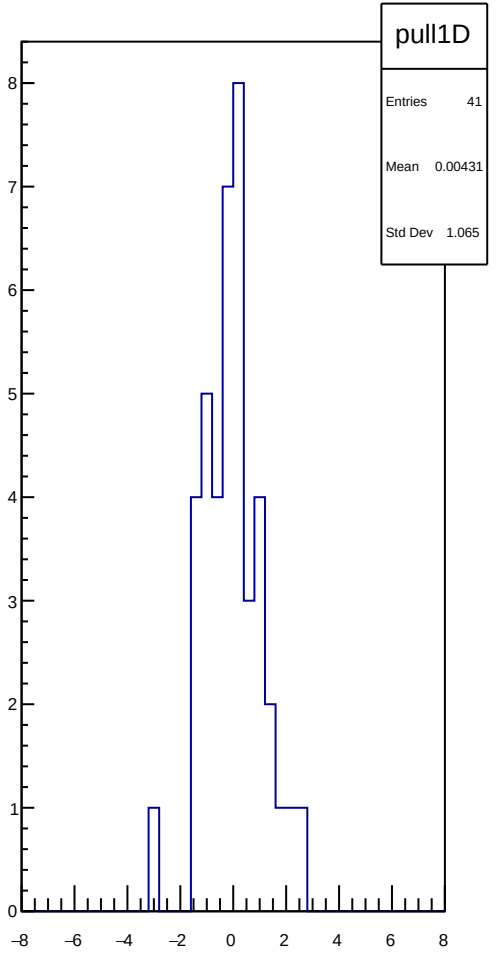

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4400 / 40
p0 66.67 ± 0.07428
95
90
85
80
75
70
65
60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

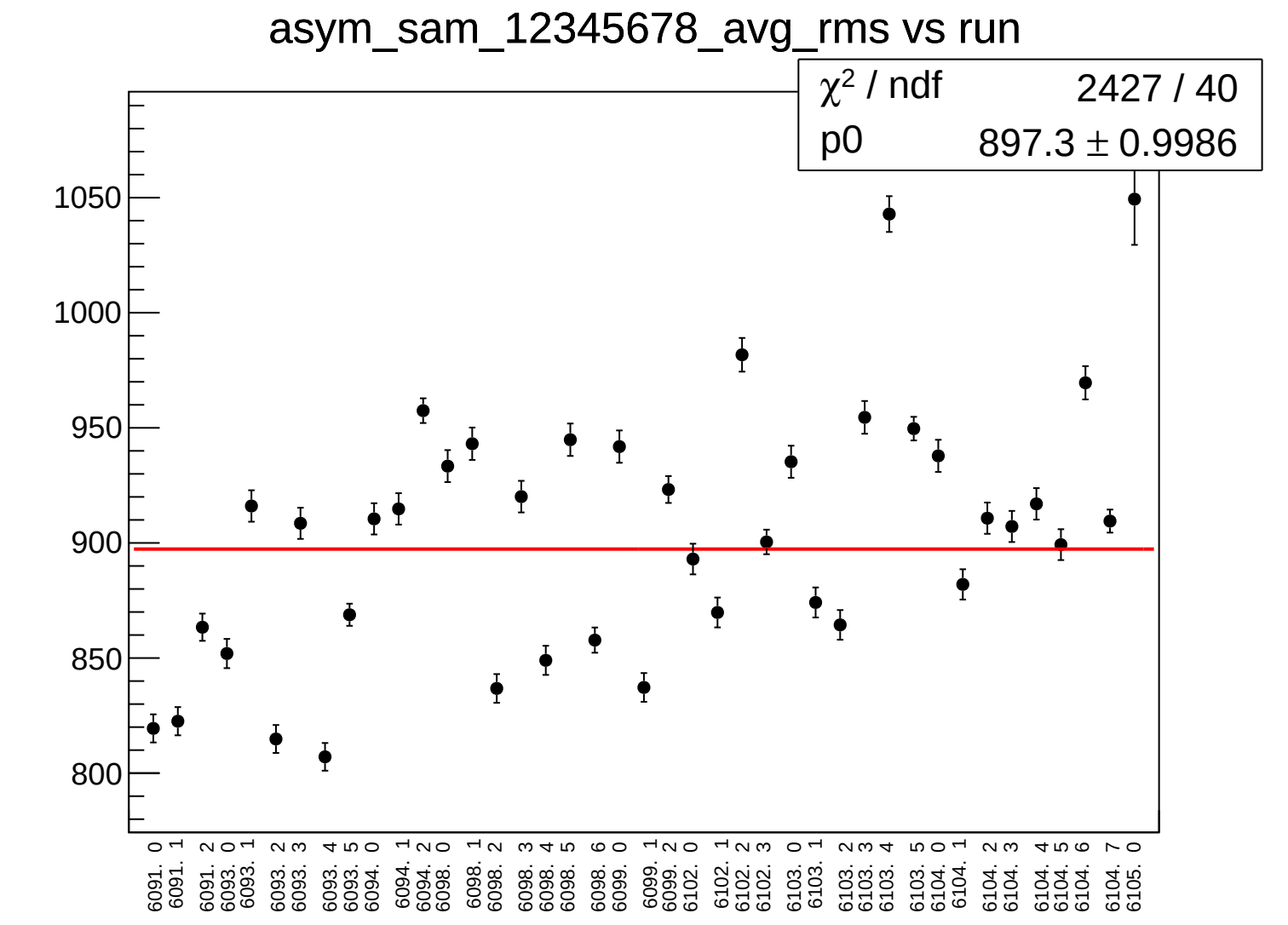

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 44.59 / 40
p0 151 ± 1419
pull
Entries 41
Mean −188.5
Std Dev 234.2

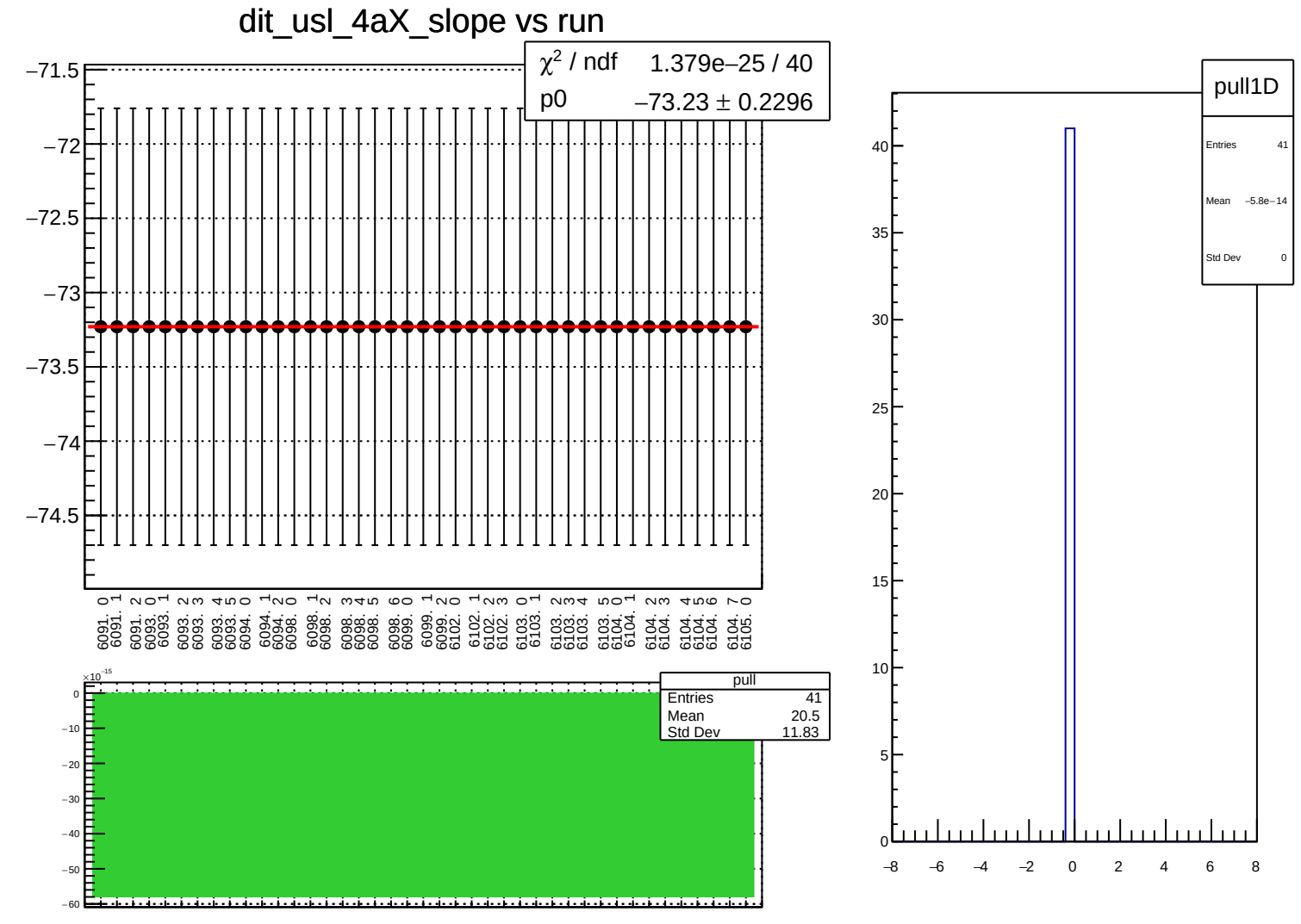

pull1D
Entries 41
Mean 0.0009192
Std Dev 1.043

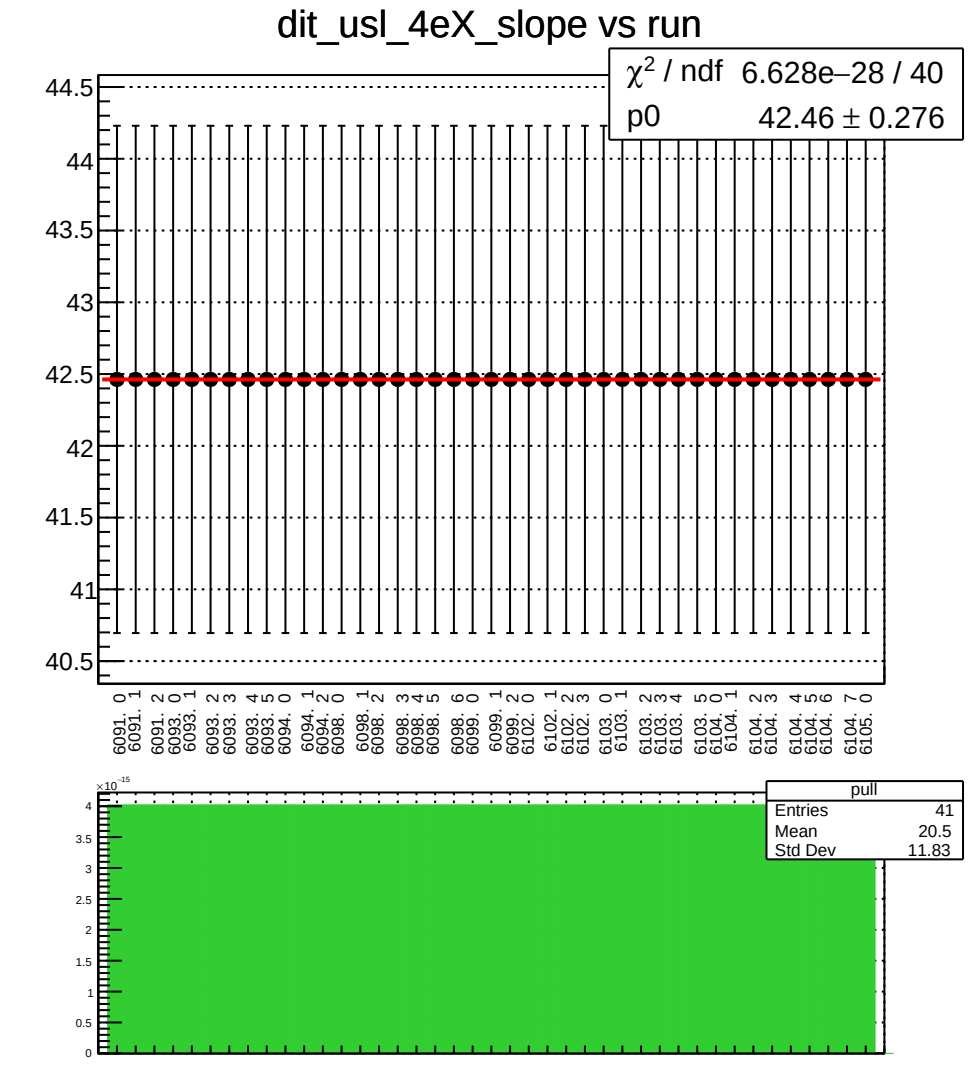

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2369 / 40
p0 901.8 ± 1.003
1100
1050
1000
950
900
850
800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

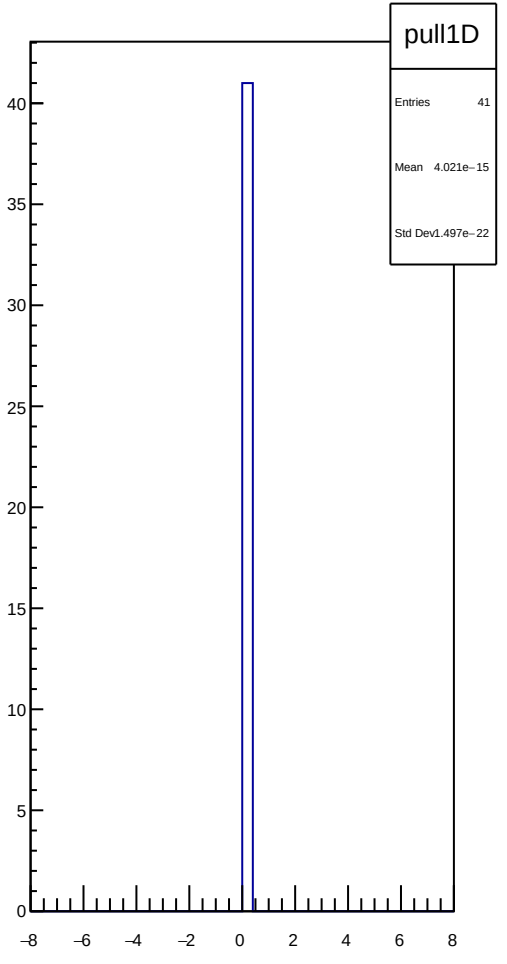

asym_sam_12345678_avg_mean vs run
χ² / ndf 46.54 / 40
p0 −89.18 ± 1412
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 72.31
Std Dev 14.35
3
2
1
0
−1
−2
−3

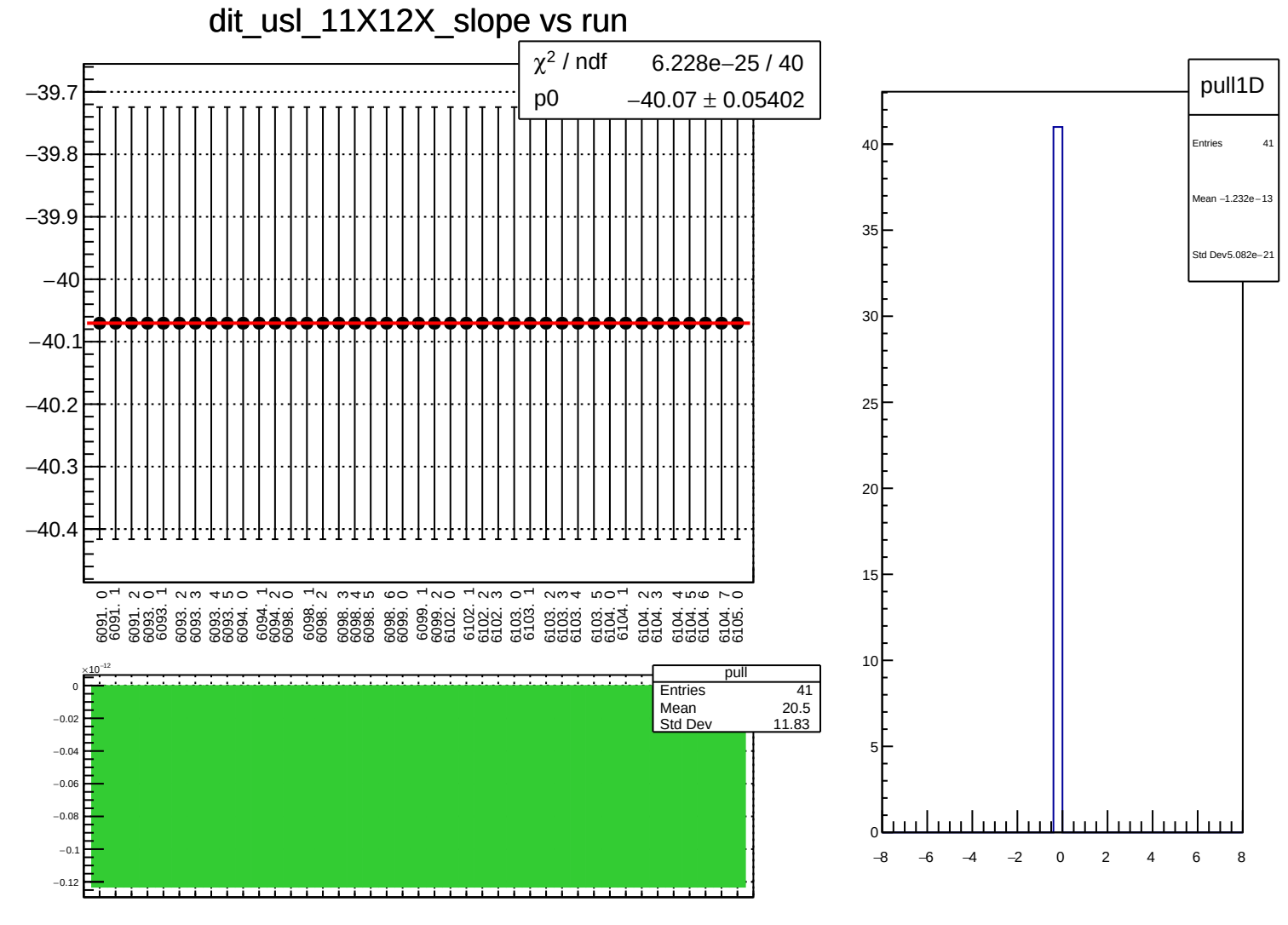

pull1D
Entries 41
Mean 0.00431
Std Dev 1.065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

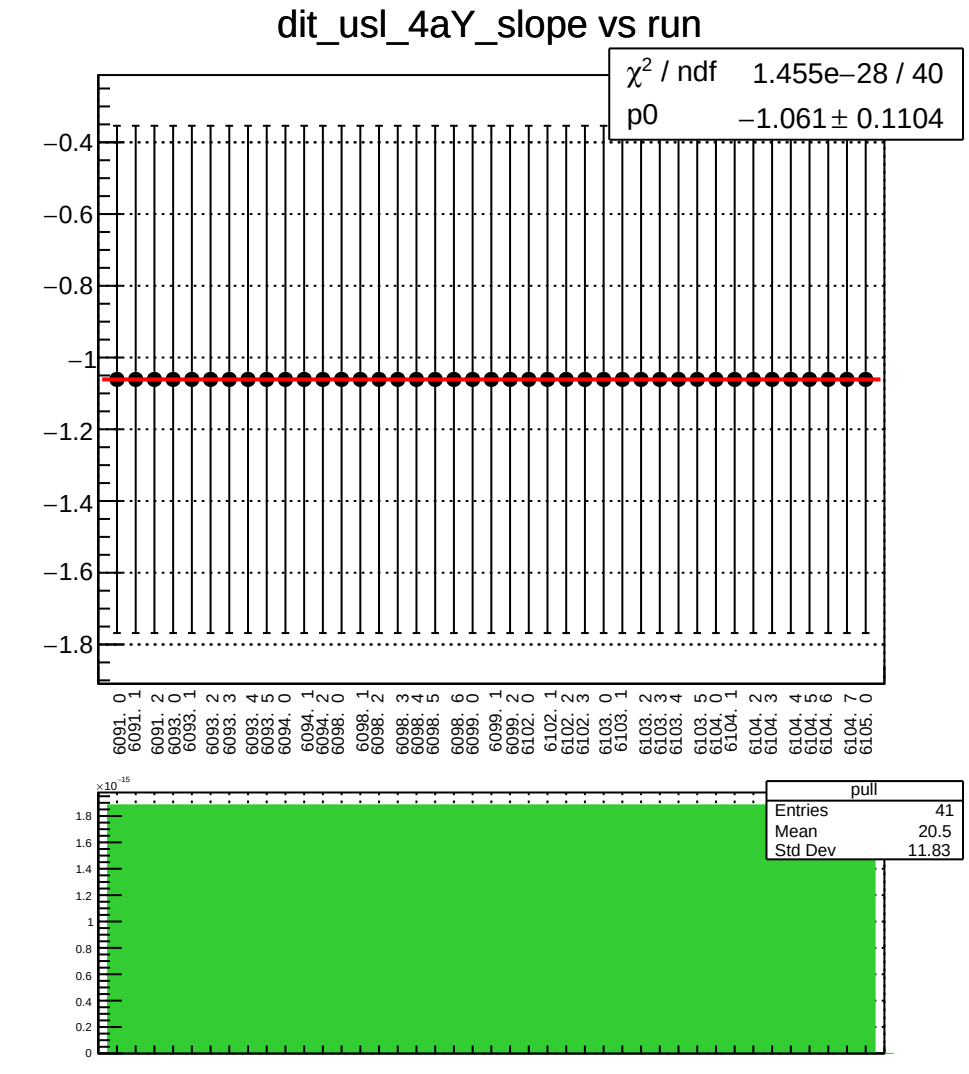

asym_sam_12345678_avg_rms vs run
χ² / ndf 2427 / 40
p0 897.3 ± 0.9986
1050
1000
950
900
850
800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0

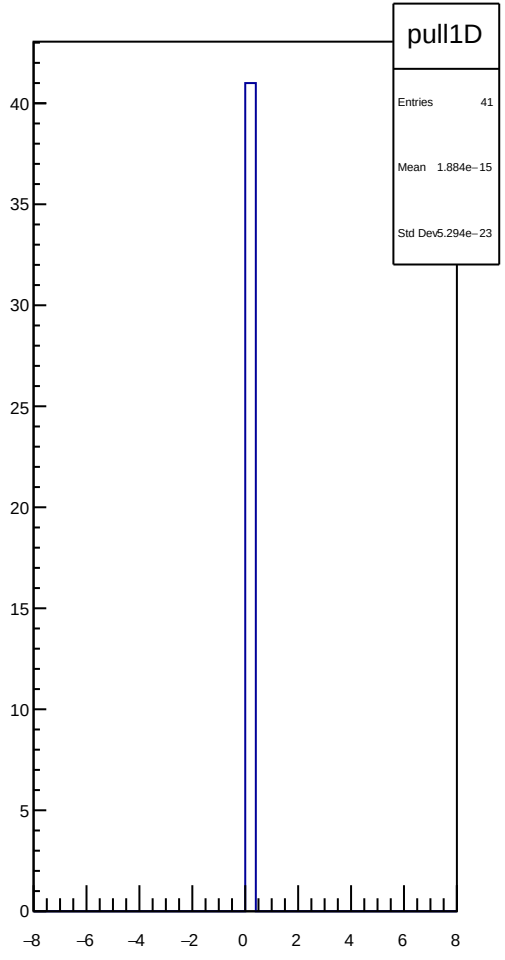

dit_usl_4aX_slope vs run
χ² / ndf 1.379e−25 / 40
p0 −73.23 ± 0.2296
−71.5
−72
−72.5
−73
−73.5
−74
−74.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −5.8e−14
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

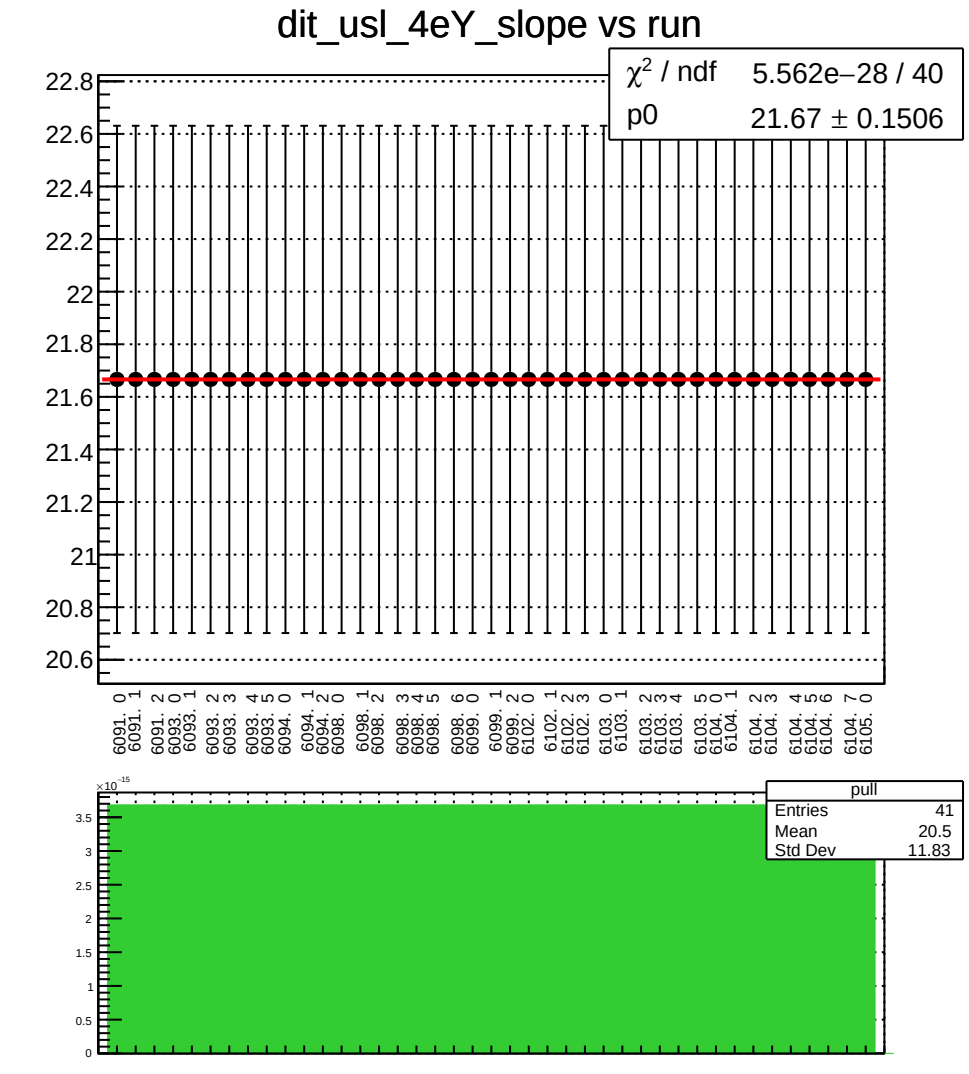

dit_usl_4eX_slope vs run
χ^2 / ndf 6.628e−28 / 40
p0 42.46 ± 0.276
44.5
44
43.5
43
42.5
42
41.5
41
40.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

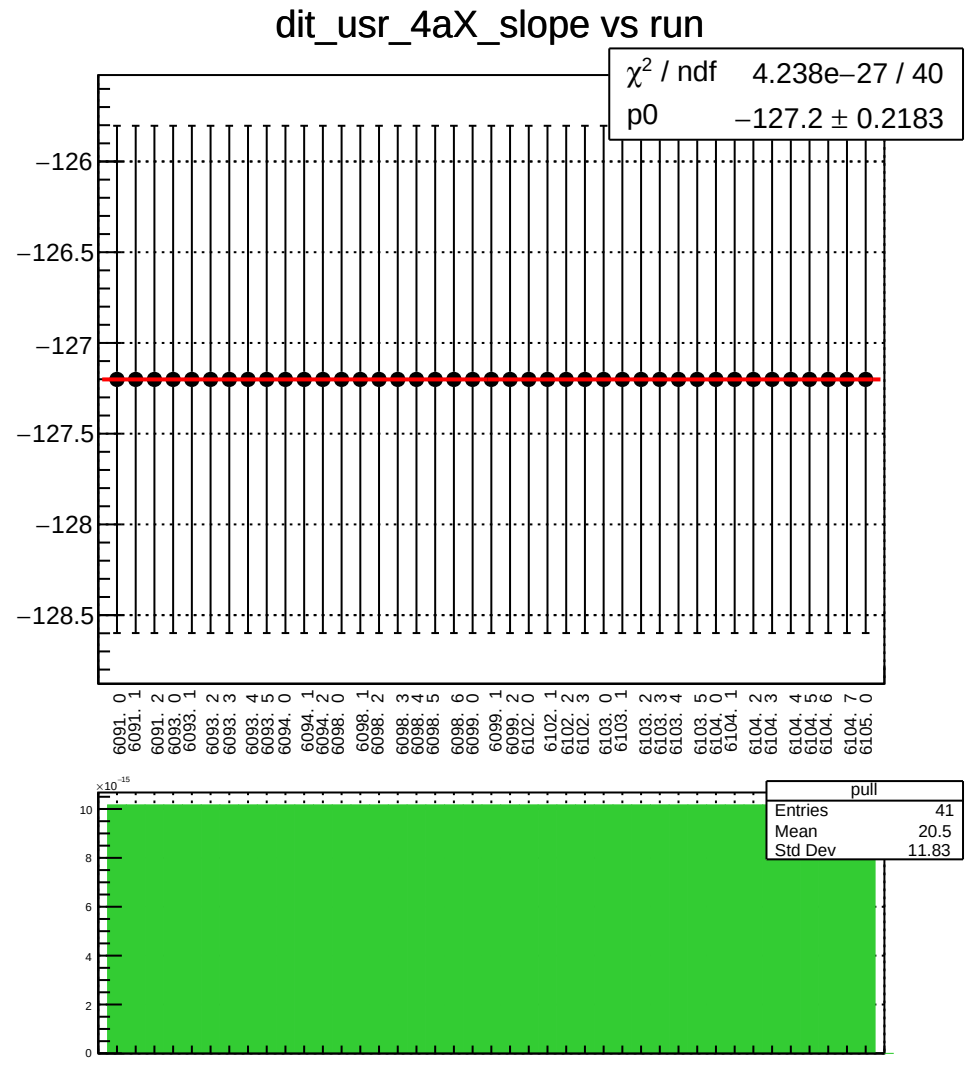

pull1D
Entries 41
Mean 4.021e−15
Std Dev1.497e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

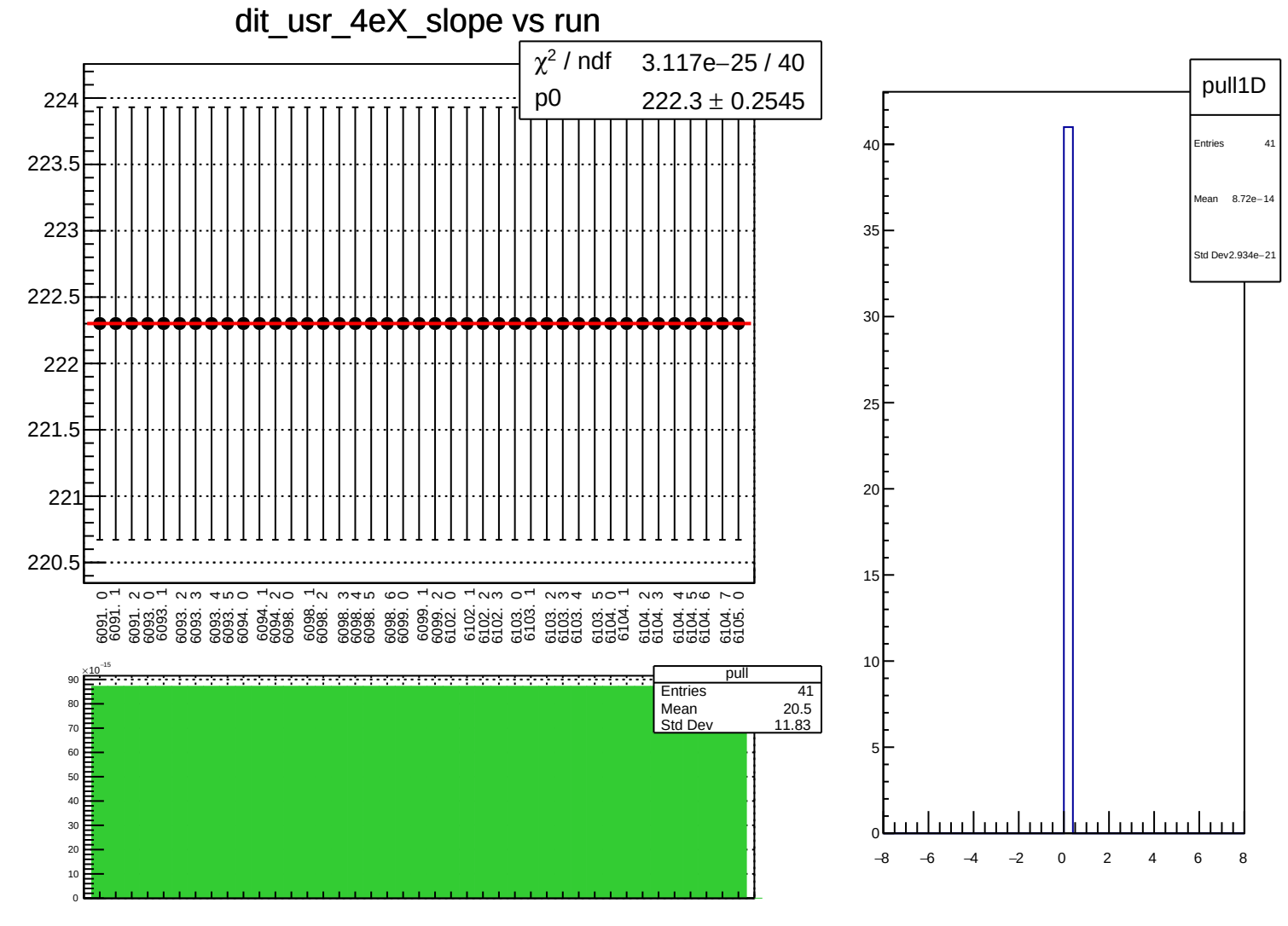

dit_usl_11X12X_slope vs run
χ² / ndf 6.228e−25 / 40
p0 −40.07 ± 0.05402
−39.7
−39.8
−39.9
−40
−40.1
−40.2
−40.3
−40.4
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.232e−13
Std Dev5.082e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

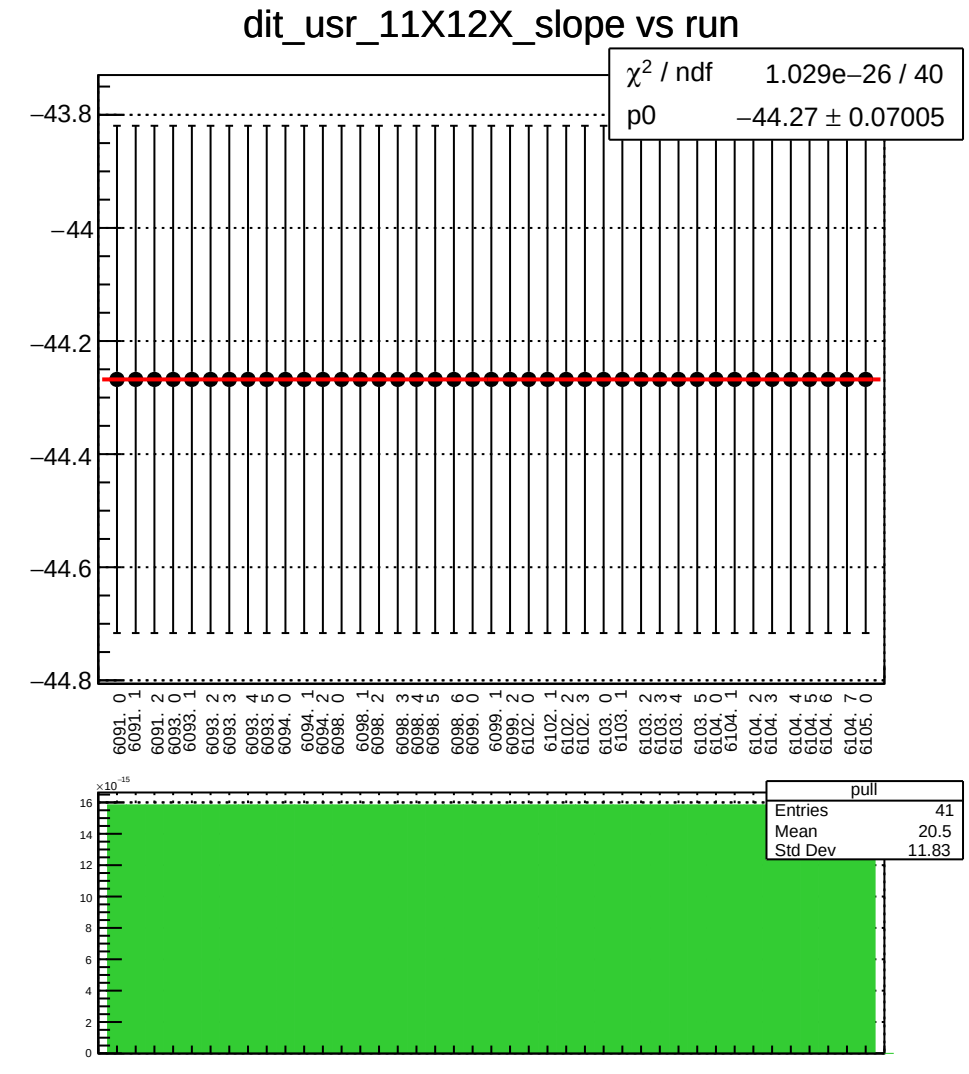

dit_usl_4aY_slope vs run
χ² / ndf 1.455e−28 / 40
p0 −1.061 ± 0.1104
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

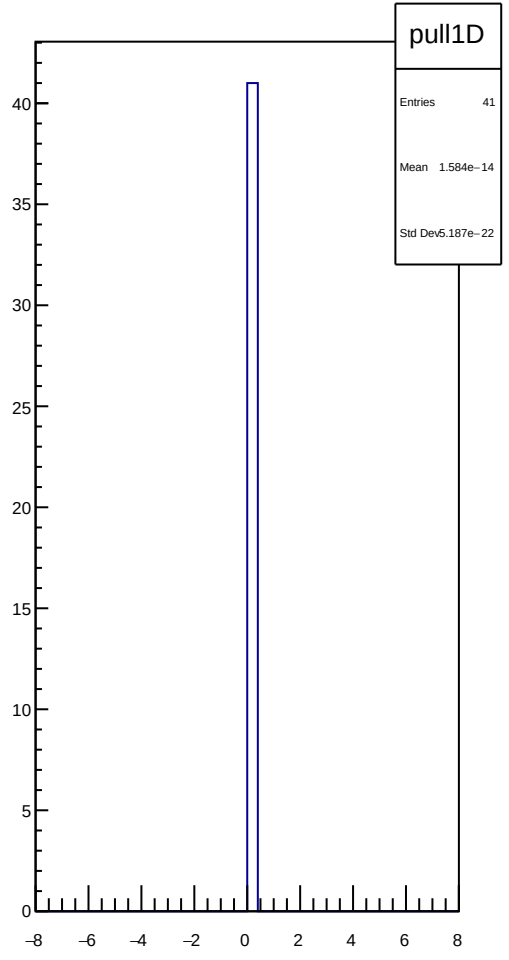

pull1D
Entries 41
Mean 1.884e−15
Std Dev5.294e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

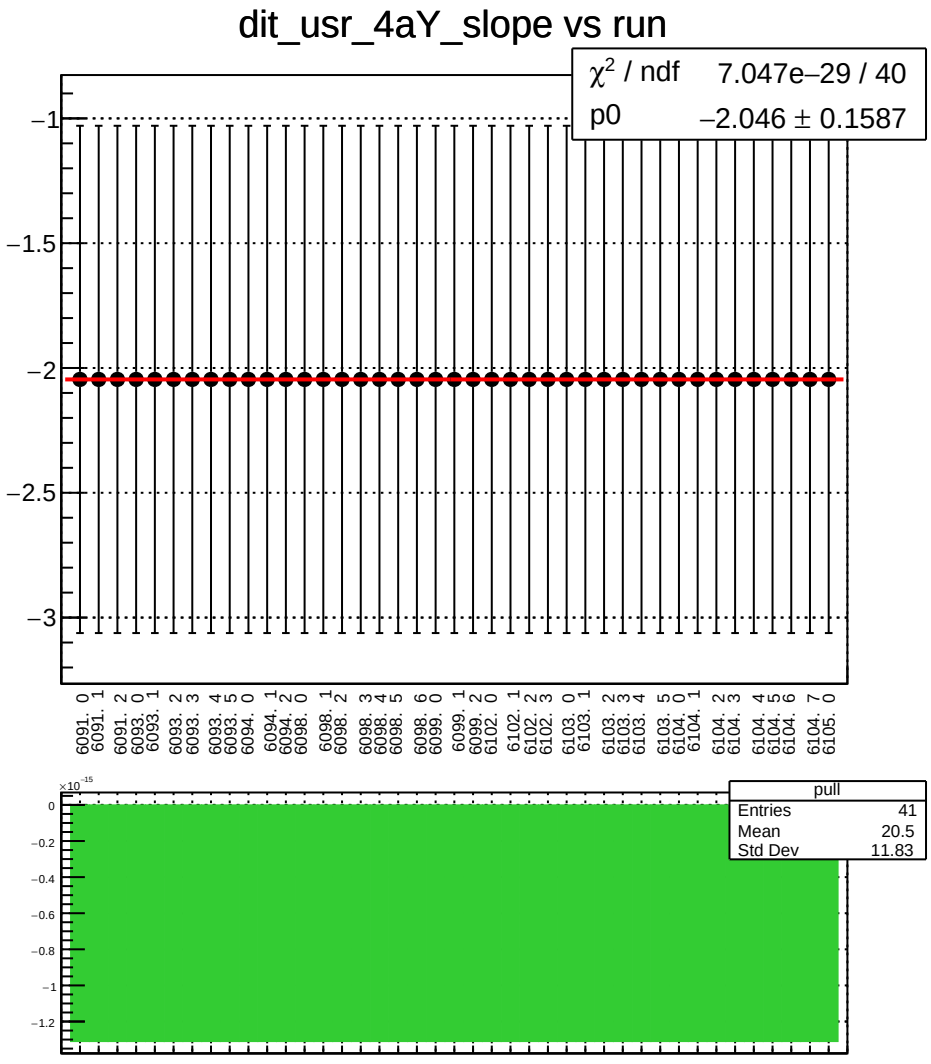

dit_usl_4eY_slope vs run
χ² / ndf 5.562e−28 / 40
p0 21.67 ± 0.1506
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×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 3.683e−15
Std Dev 5.294e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

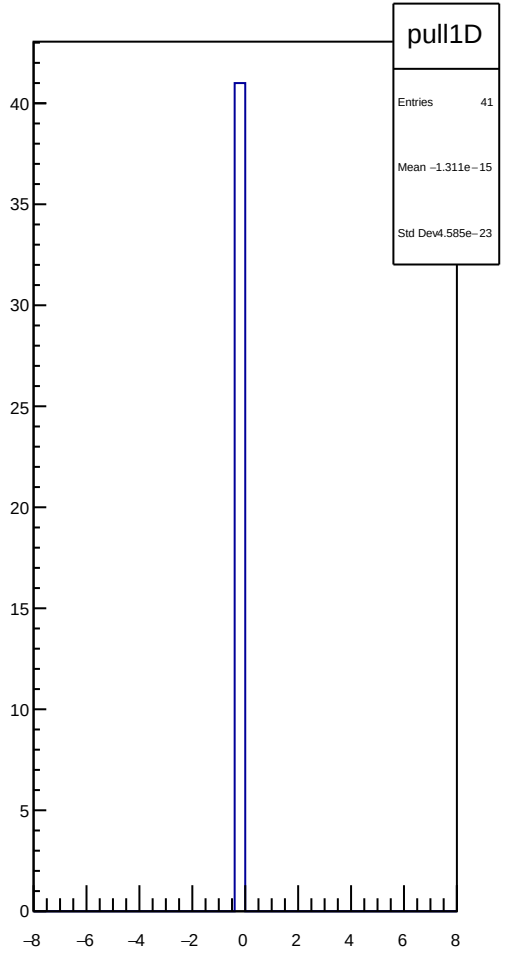

dit_usr_4aX_slope vs run
χ² / ndf 4.238e−27 / 40
p0 −127.2 ± 0.2183
−126
−126.5
−127
−127.5
−128
−128.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 1.017e−14
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

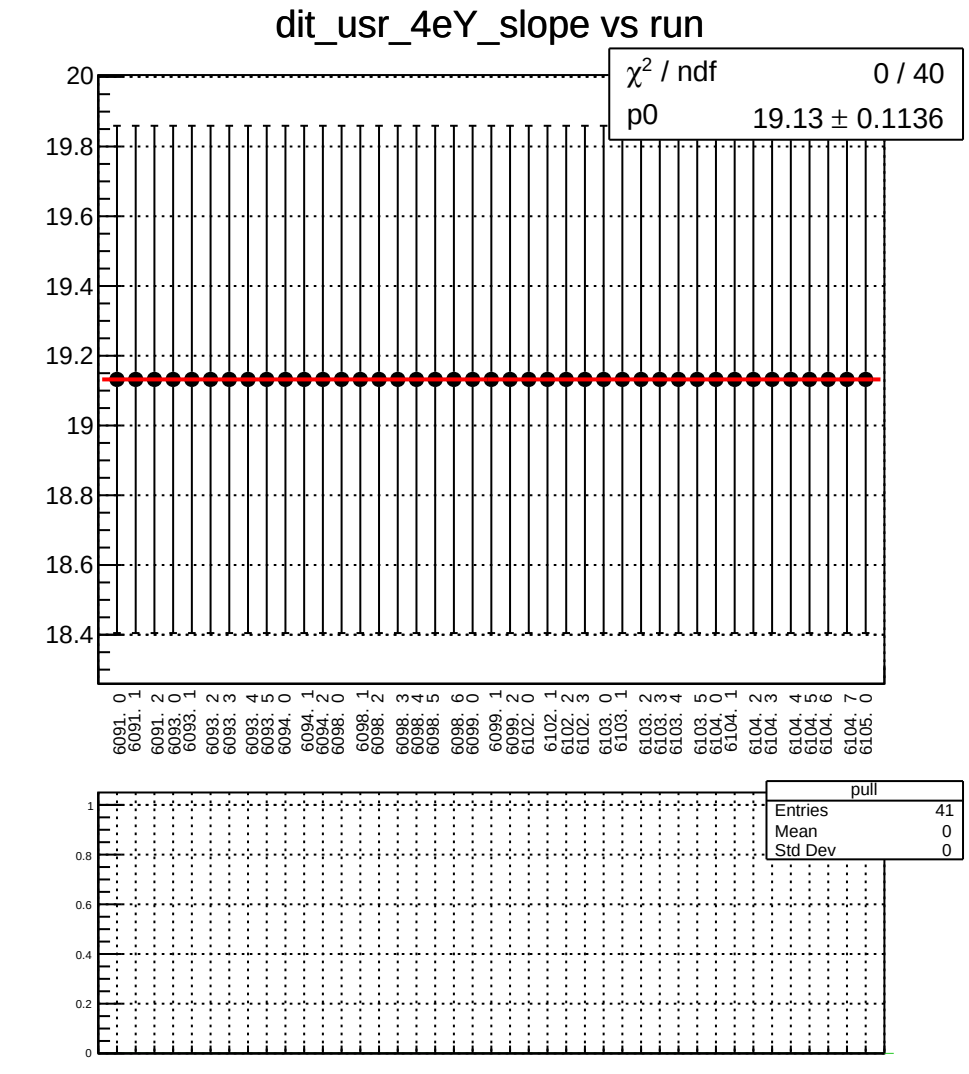

dit_usr_4eX_slope vs run
χ² / ndf 3.117e−25 / 40
p0 222.3 ± 0.2545
224
223.5
223
222.5
222
221.5
221
220.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
90
80
70
60
50
40
30
20
10
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 8.72e−14
Std Dev2.934e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

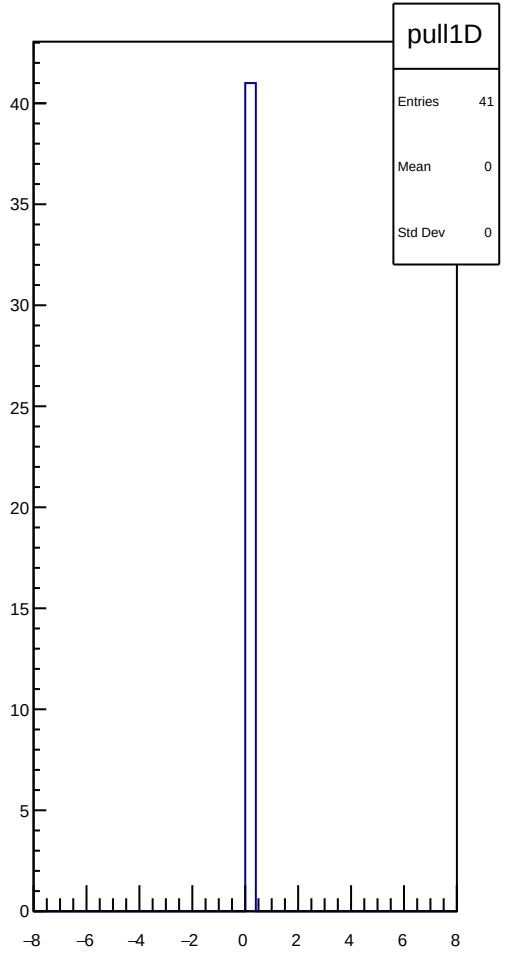

dit_usr_11X12X_slope vs run
χ² / ndf 1.029e−26 / 40
p0 −44.27 ± 0.07005
−43.8
−44
−44.2
−44.4
−44.6
−44.8
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
pull
Entries 41
Mean 20.5
Std Dev 11.83
16
14
12
10
8
6
4
2
0

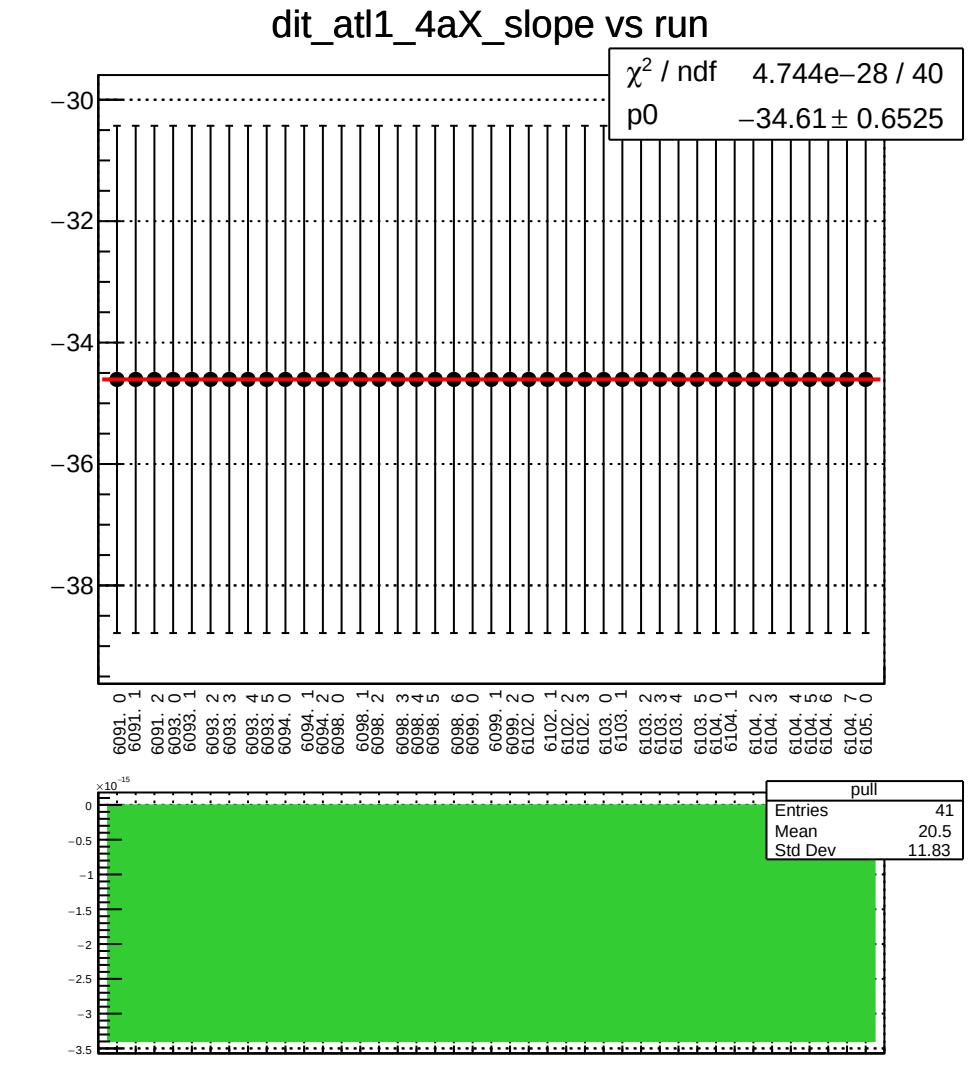

pull1D
Entries 41
Mean 1.584e−14
Std Dev 5.187e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

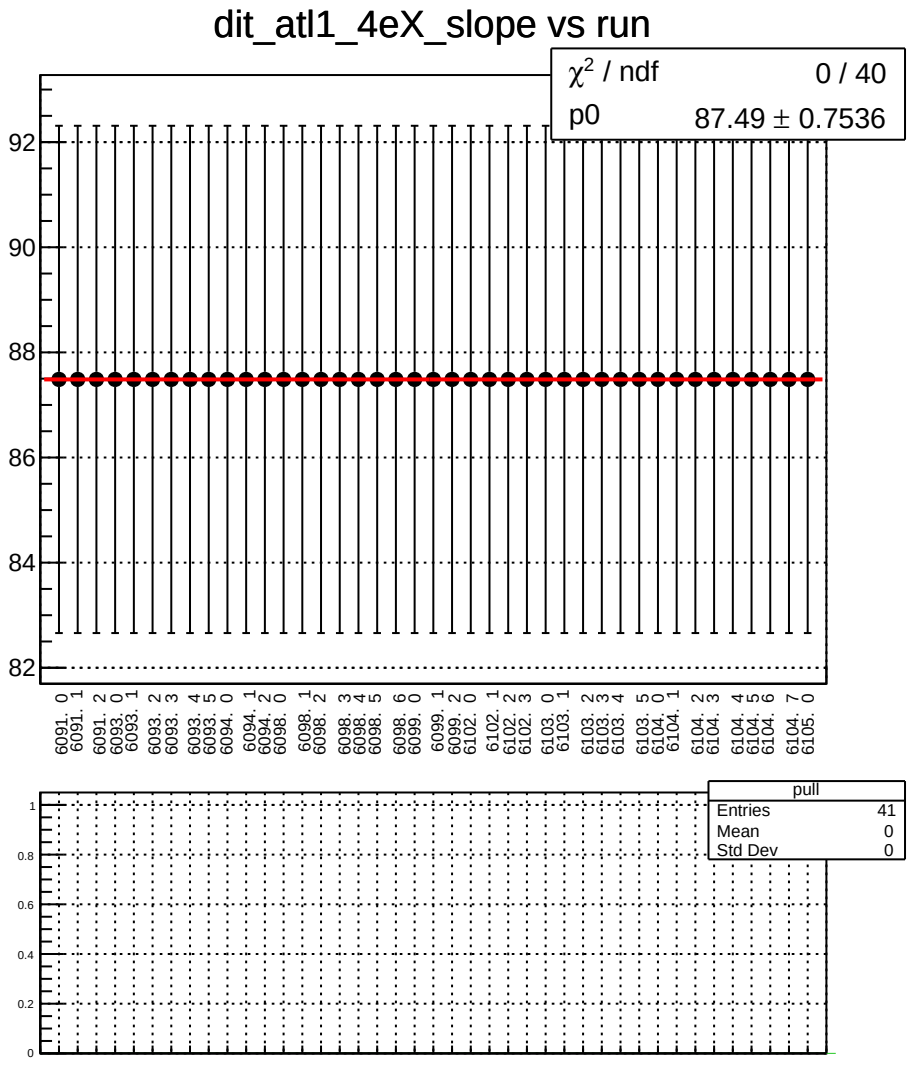

dit_usr_4aY_slope vs run
χ² / ndf 7.047e−29 / 40
p0 −2.046 ± 0.1587
−1
−1.5
−2
−2.5
−3
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻�15
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 41
Mean 20.5
Std Dev 11.83

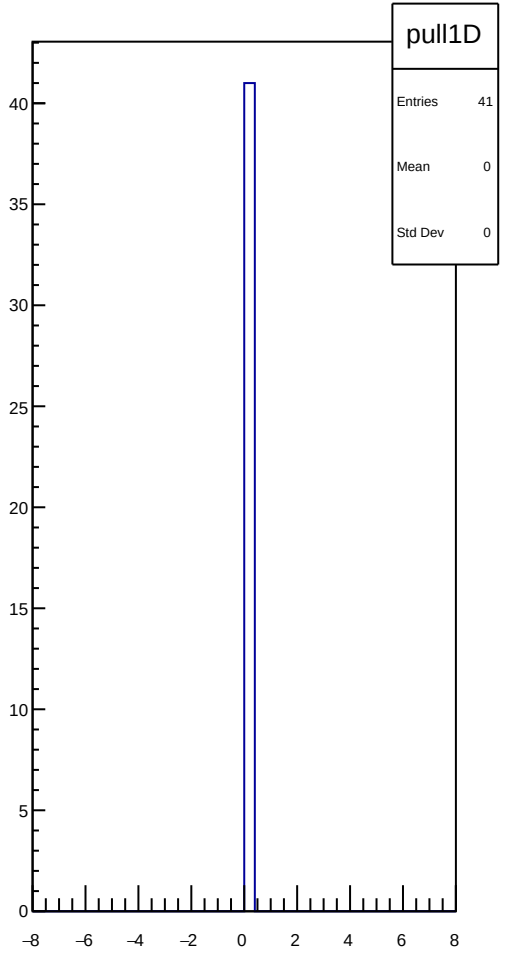

pull1D
Entries 41
Mean −1.311e−15
Std Dev4.585e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

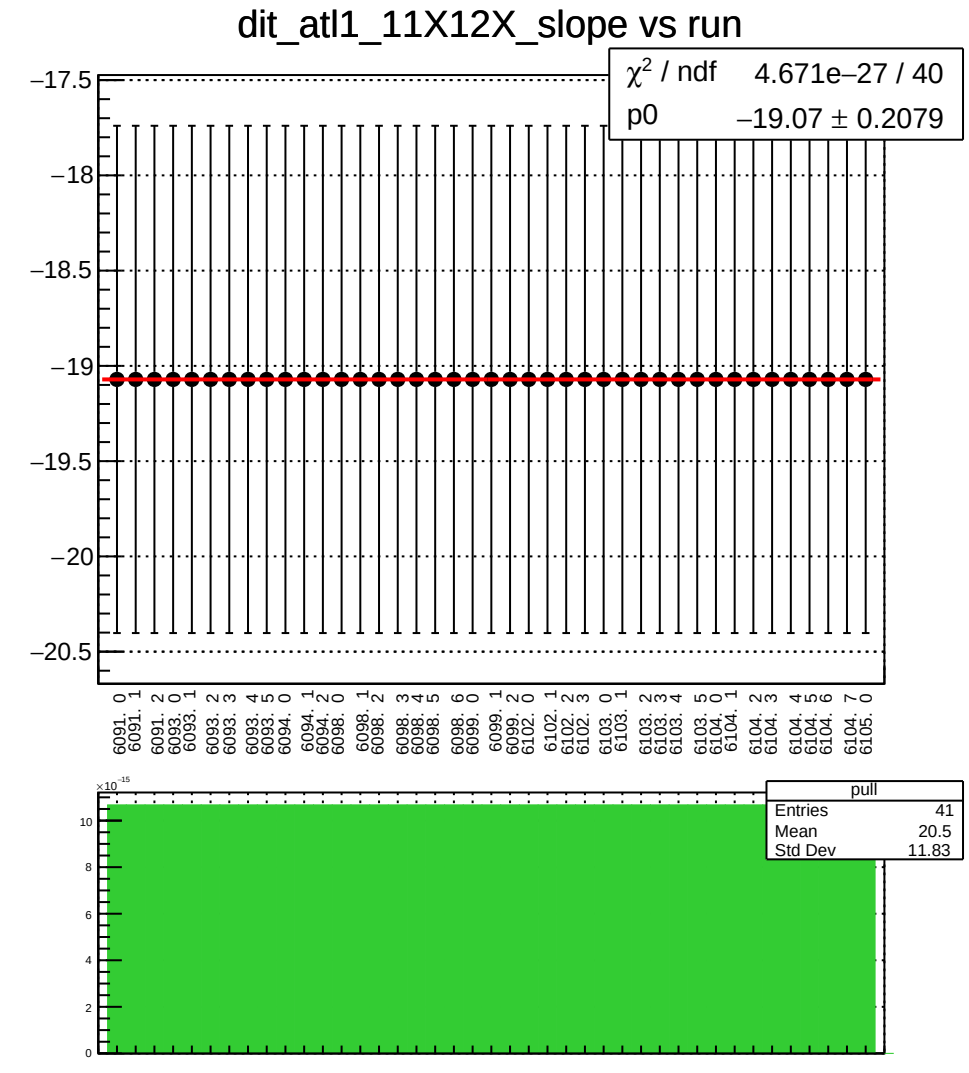

dit_usr_4eY_slope vs run
χ² / ndf 0 / 40
p0 19.13 ± 0.1136
pull
Entries 41
Mean 0
Std Dev 0

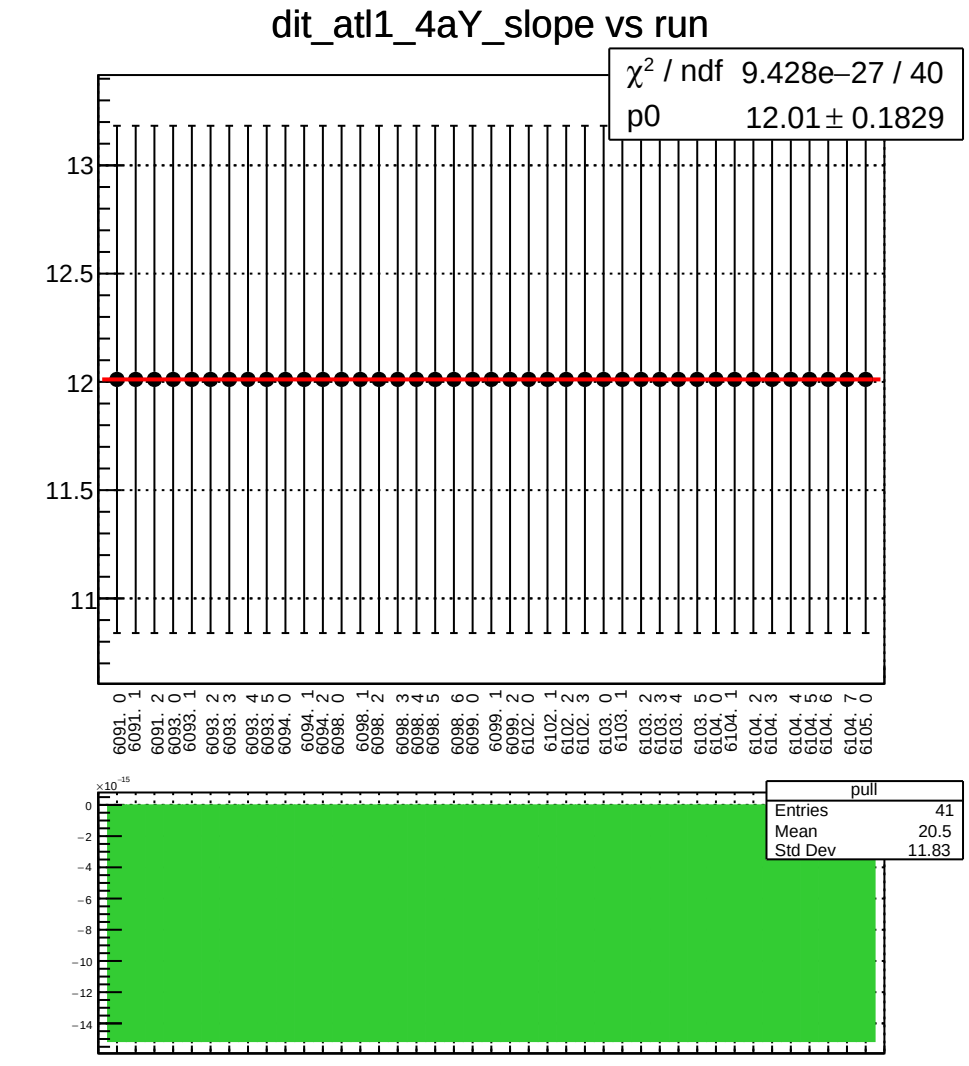

pull1D
Entries 41
Mean 0
Std Dev 0

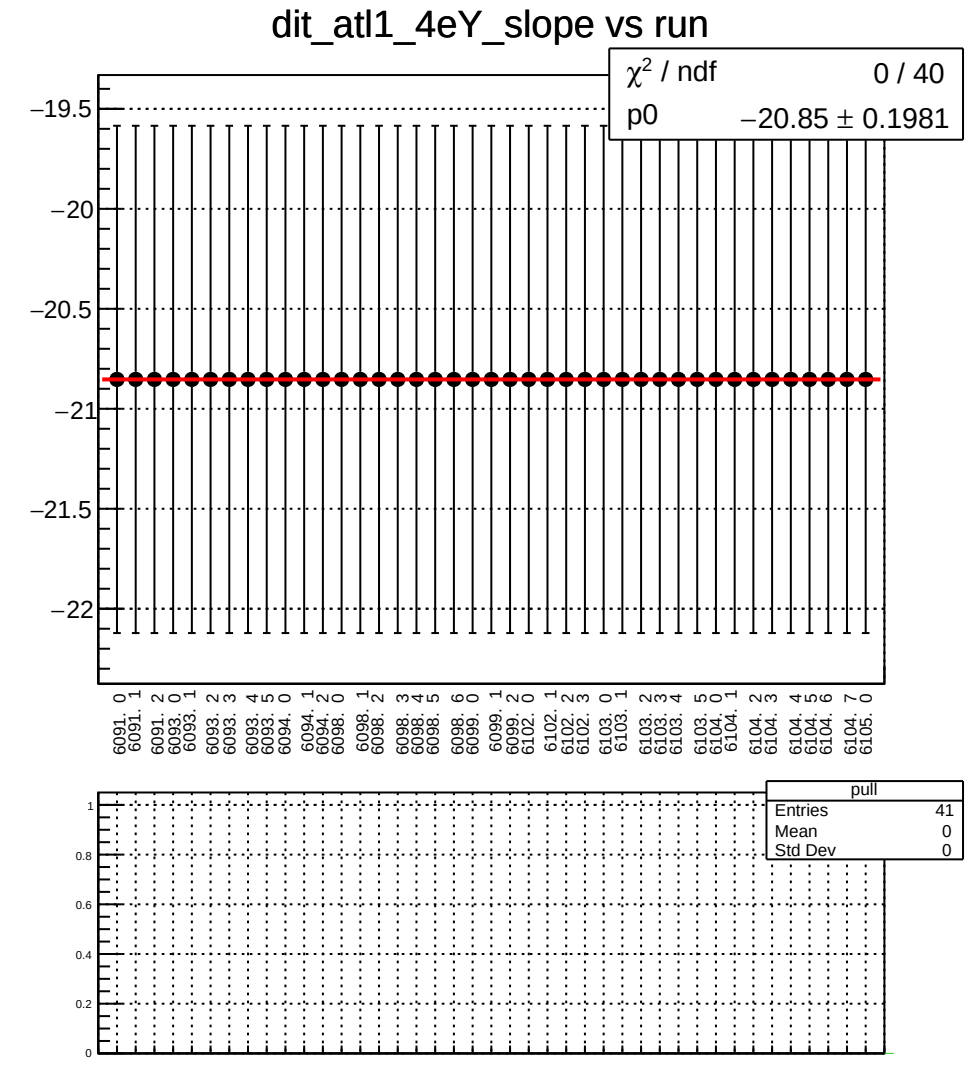

dit_atl1_4aX_slope vs run
χ² / ndf 4.744e−28 / 40
p0 −34.61 ± 0.6525
−30
−32
−34
−36
−38
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×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 −3.401e−15
Std Dev 8.37e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

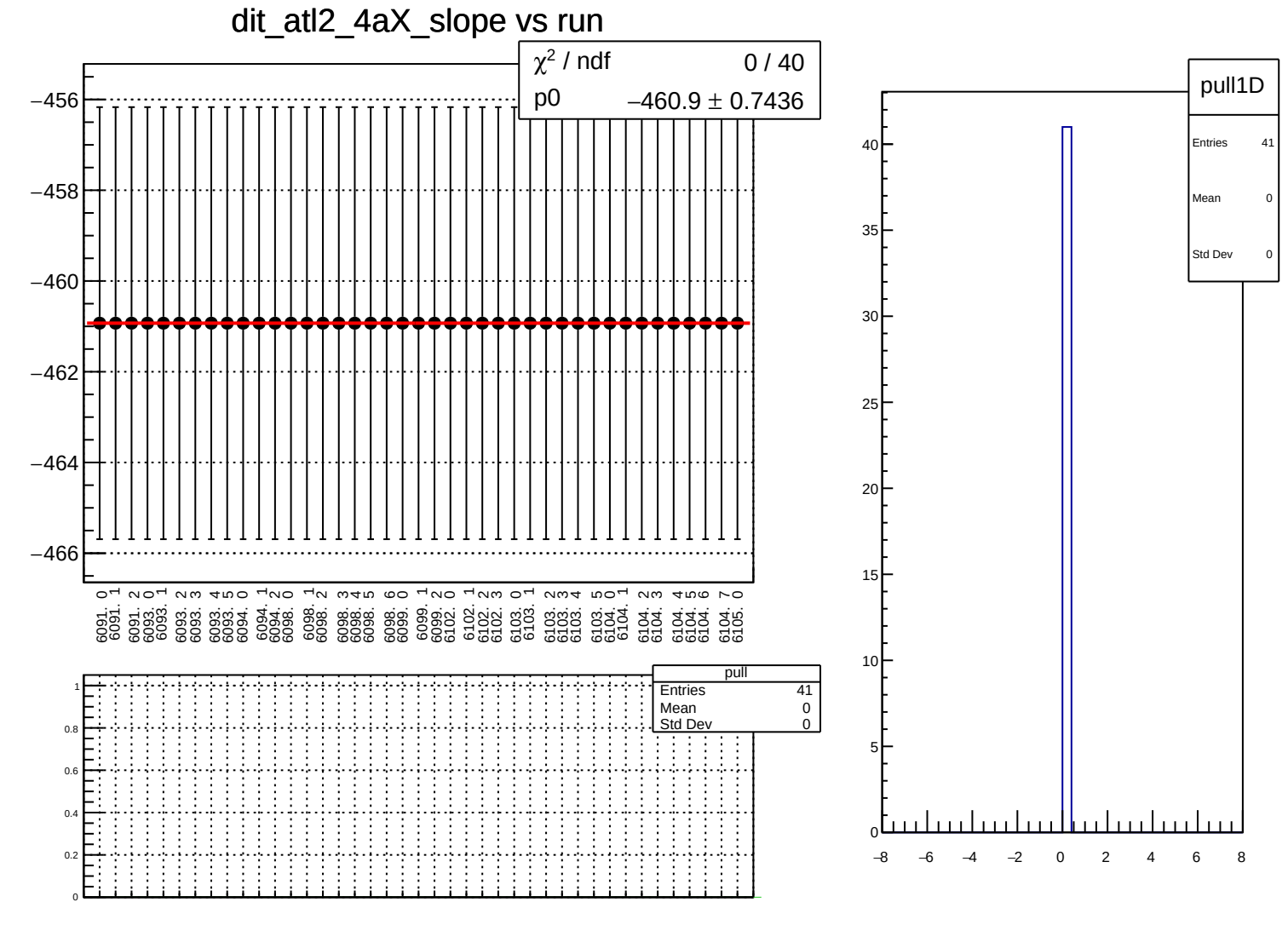

dit_atl1_4eX_slope vs run
χ² / ndf 0 / 40
p0 87.49 ± 0.7536
92
90
88
86
84
82
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

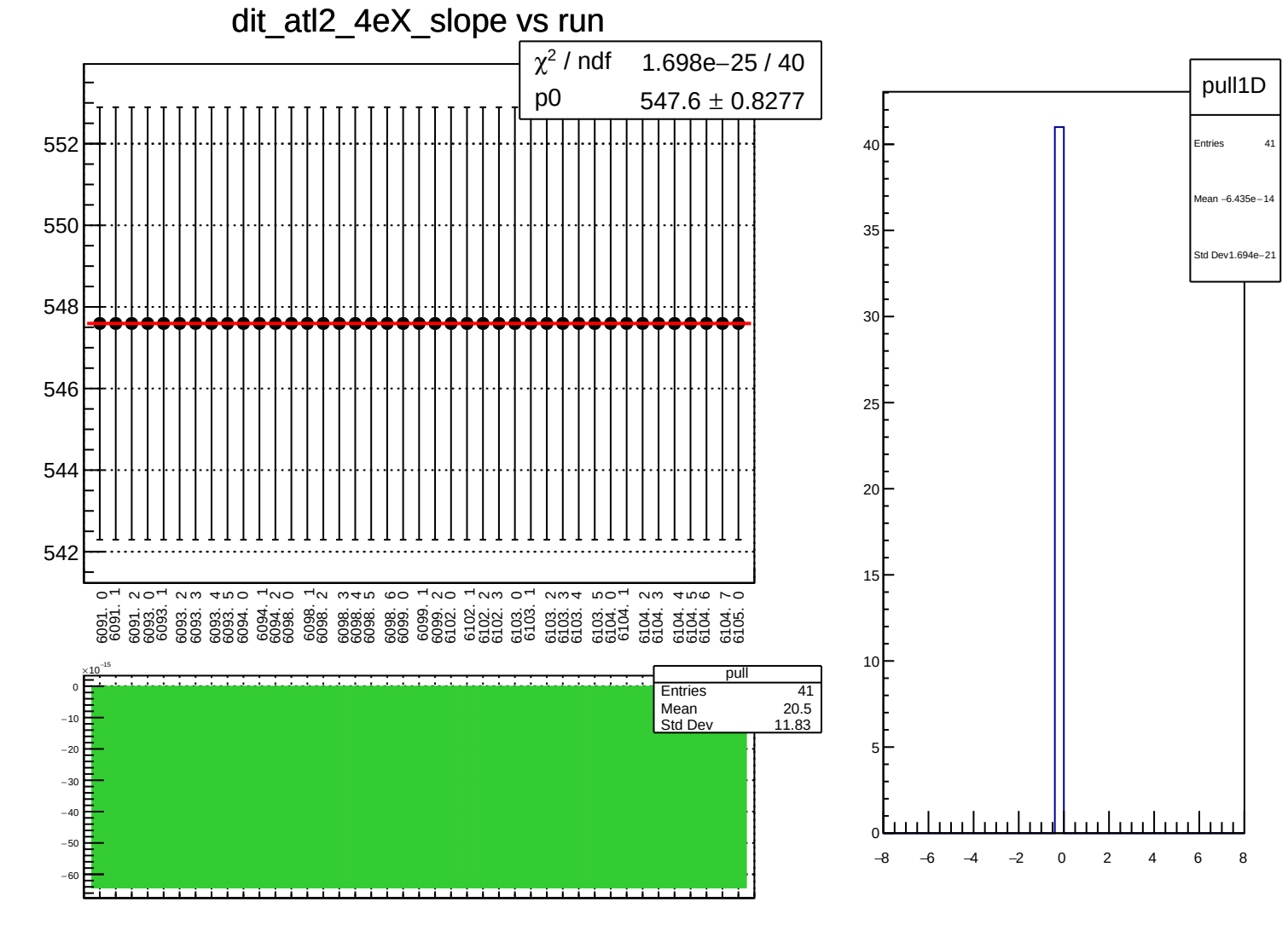

pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

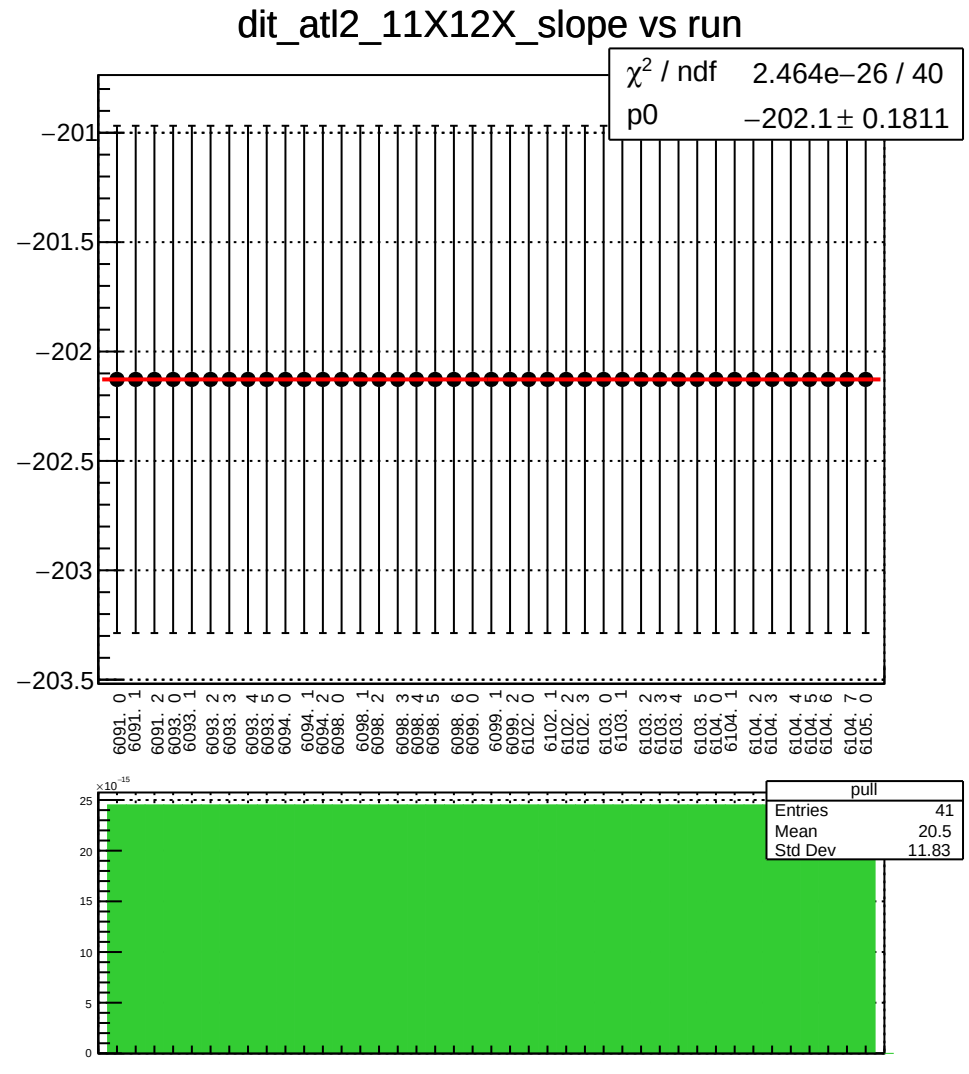

dit_atl1_11X12X_slope vs run
χ^2 / ndf 4.671e−27 / 40
p0 −19.07 ± 0.2079
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻�15
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 1.067e−14
Std Dev 2.995e−22

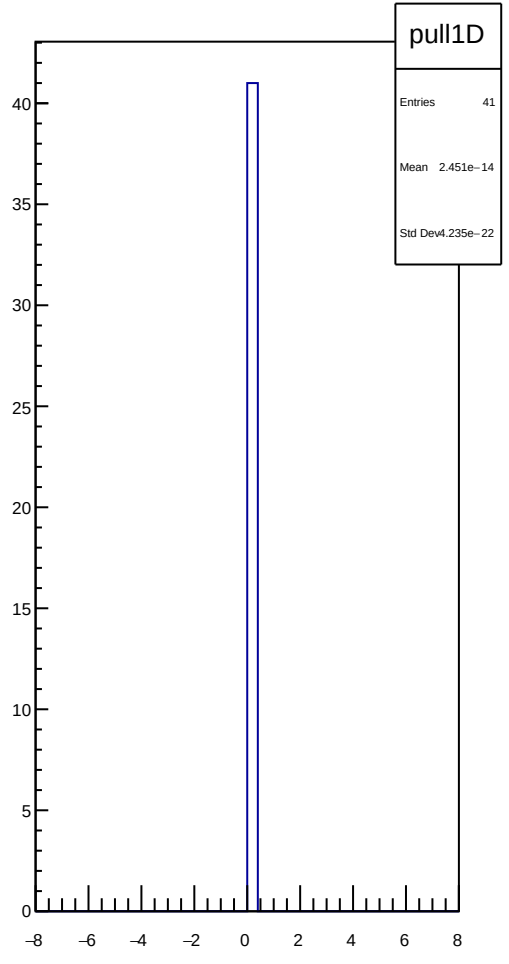

dit_atl1_4aY_slope vs run
χ² / ndf 9.428e−27 / 40
p0 12.01 ± 0.1829
13
12.5
12
11.5
11
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.516e−14
Std Dev3.668e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

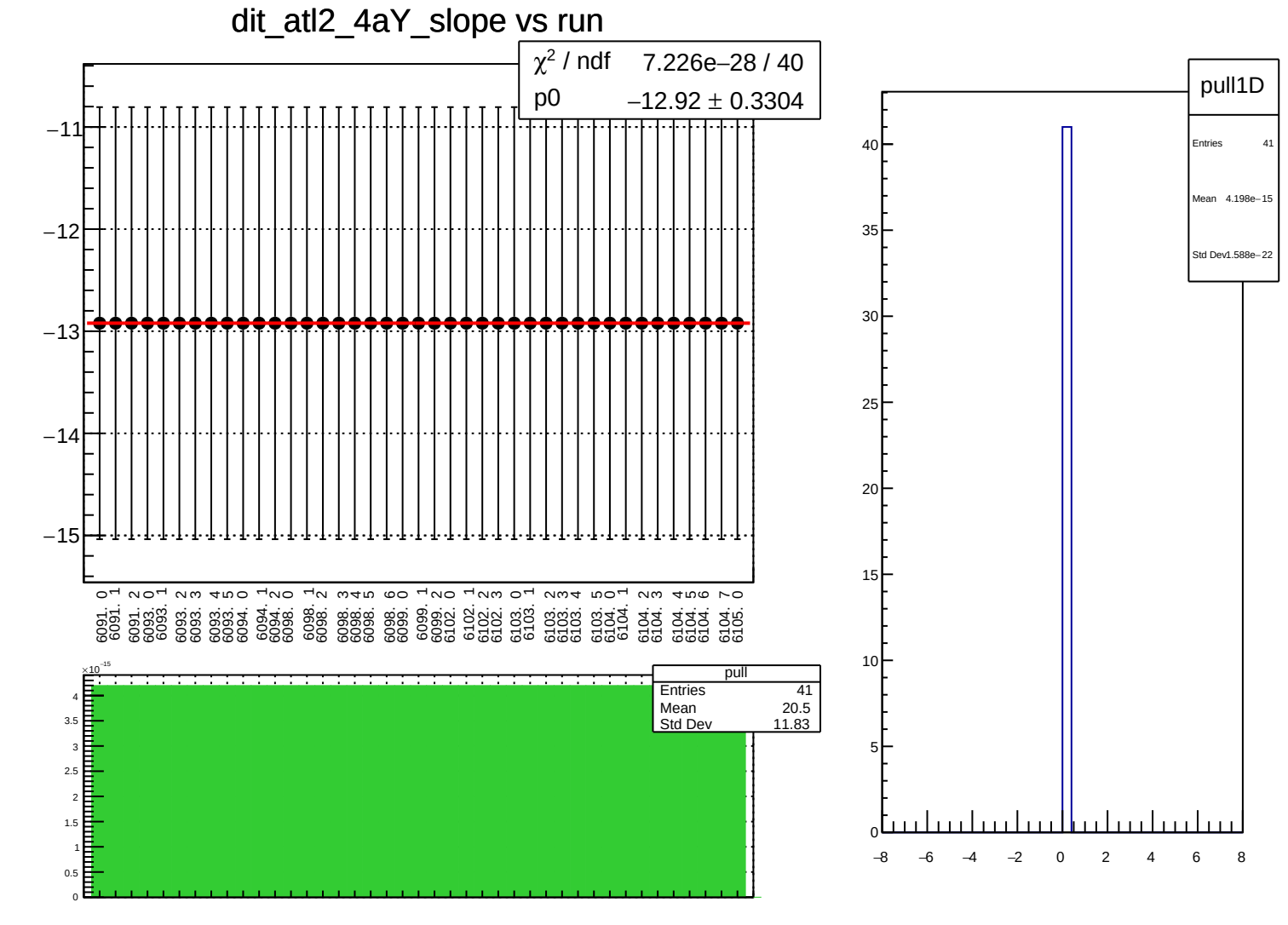

dit_atl1_4eY_slope vs run
χ² / ndf 0 / 40
p0 −20.85 ± 0.1981
−19.5
−20
−20.5
−21
−21.5
−22
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
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

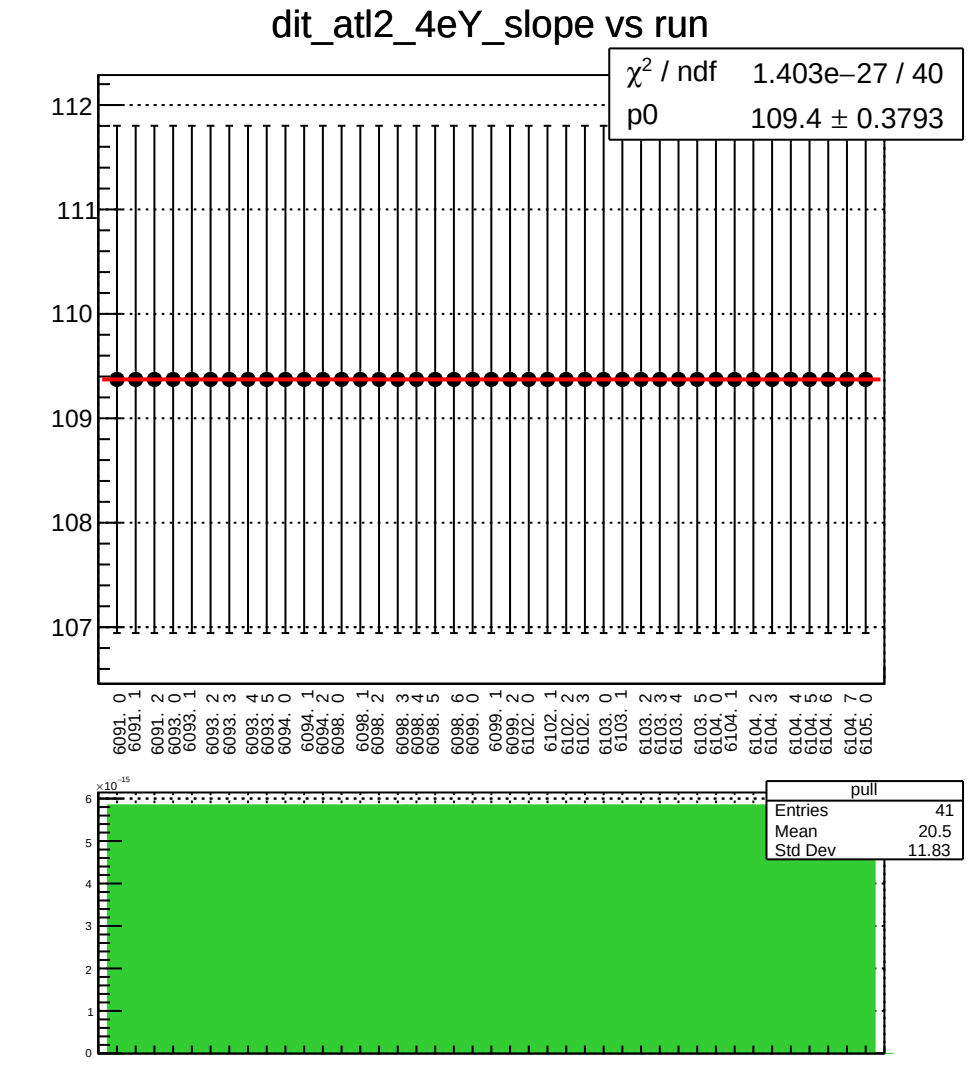

dit_atl2_4aX_slope vs run
χ² / ndf 0 / 40
p0 −460.9 ± 0.7436
−456
−458
−460
−462
−464
−466
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
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

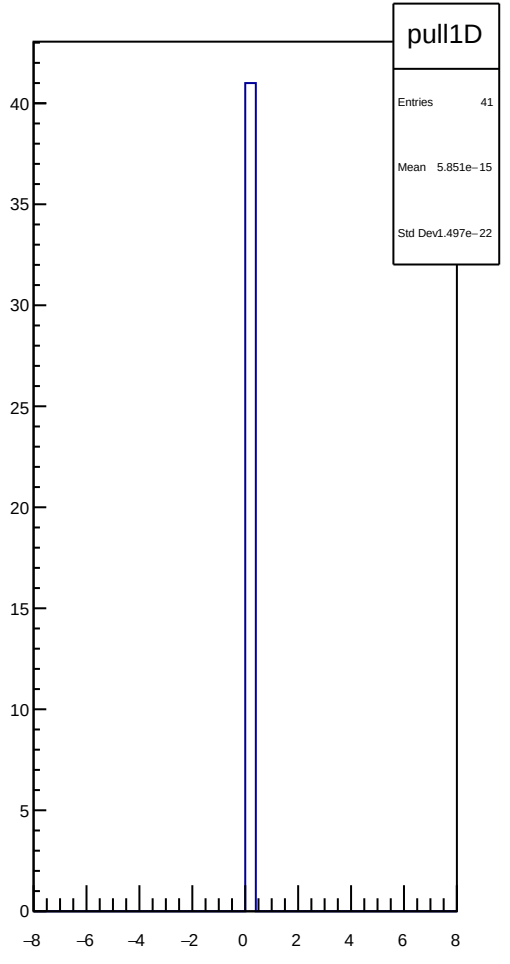

dit_atl2_4eX_slope vs run
χ² / ndf 1.698e−25 / 40
p0 547.6 ± 0.8277
552
550
548
546
544
542
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −6.435e−14
Std Dev1.694e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

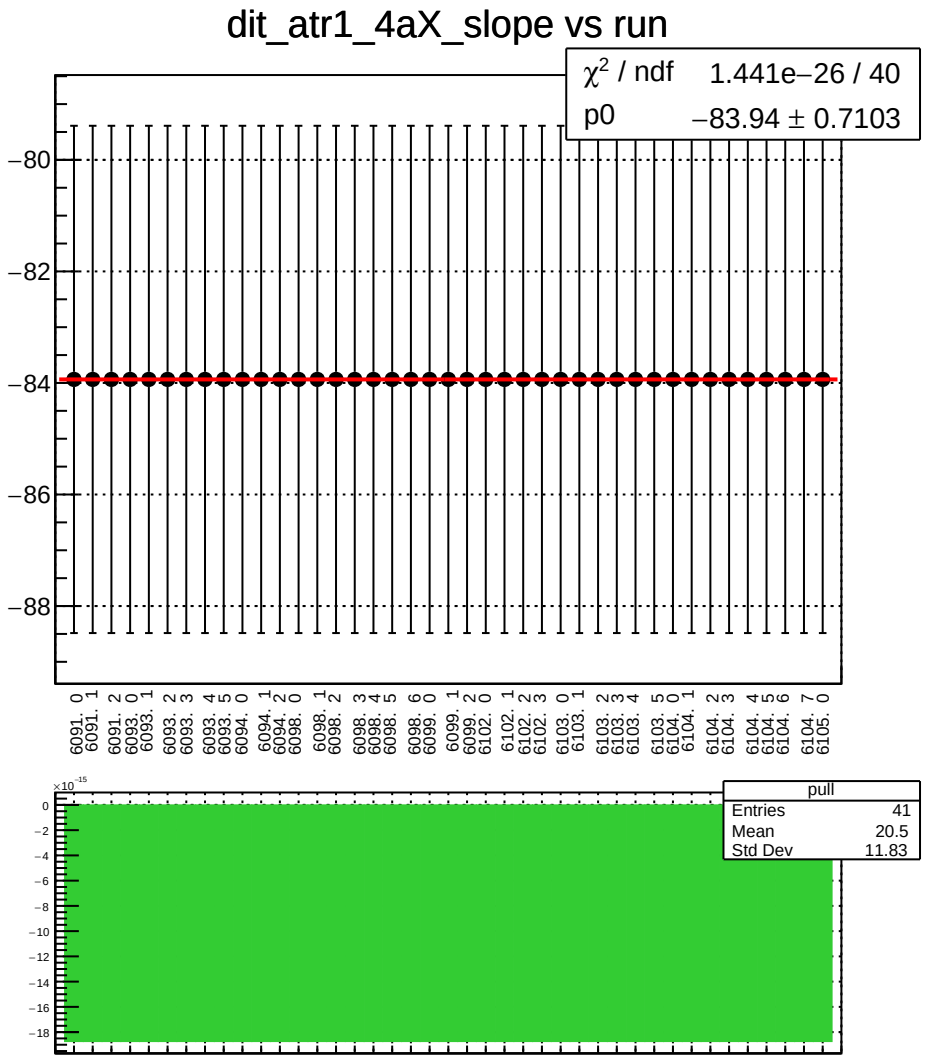

dit_atl2_11X12X_slope vs run
χ² / ndf 2.464e−26 / 40
p0 −202.1 ± 0.1811
−201
−201.5
−202
−202.5
−203
−203.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻�15
25
20
15
10
5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

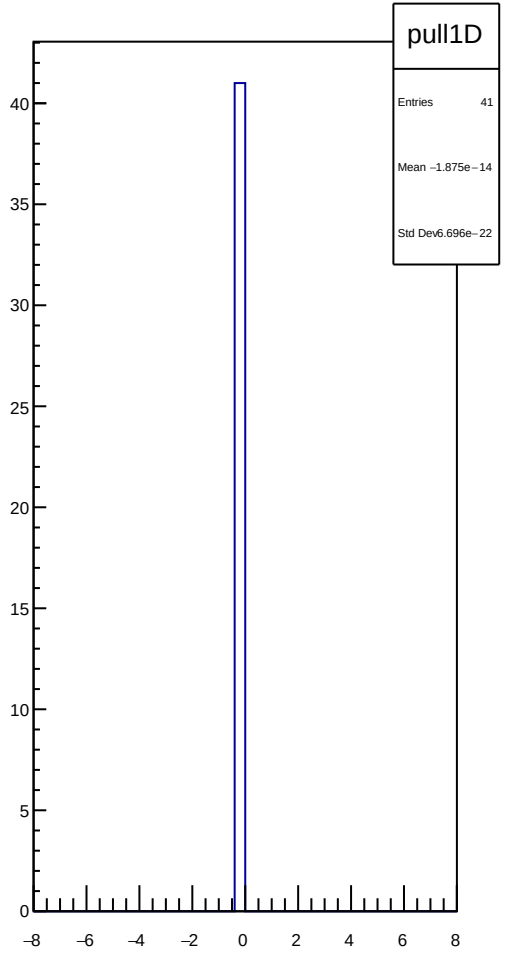

pull1D
Entries 41
Mean 2.451e−14
Std Dev4.235e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

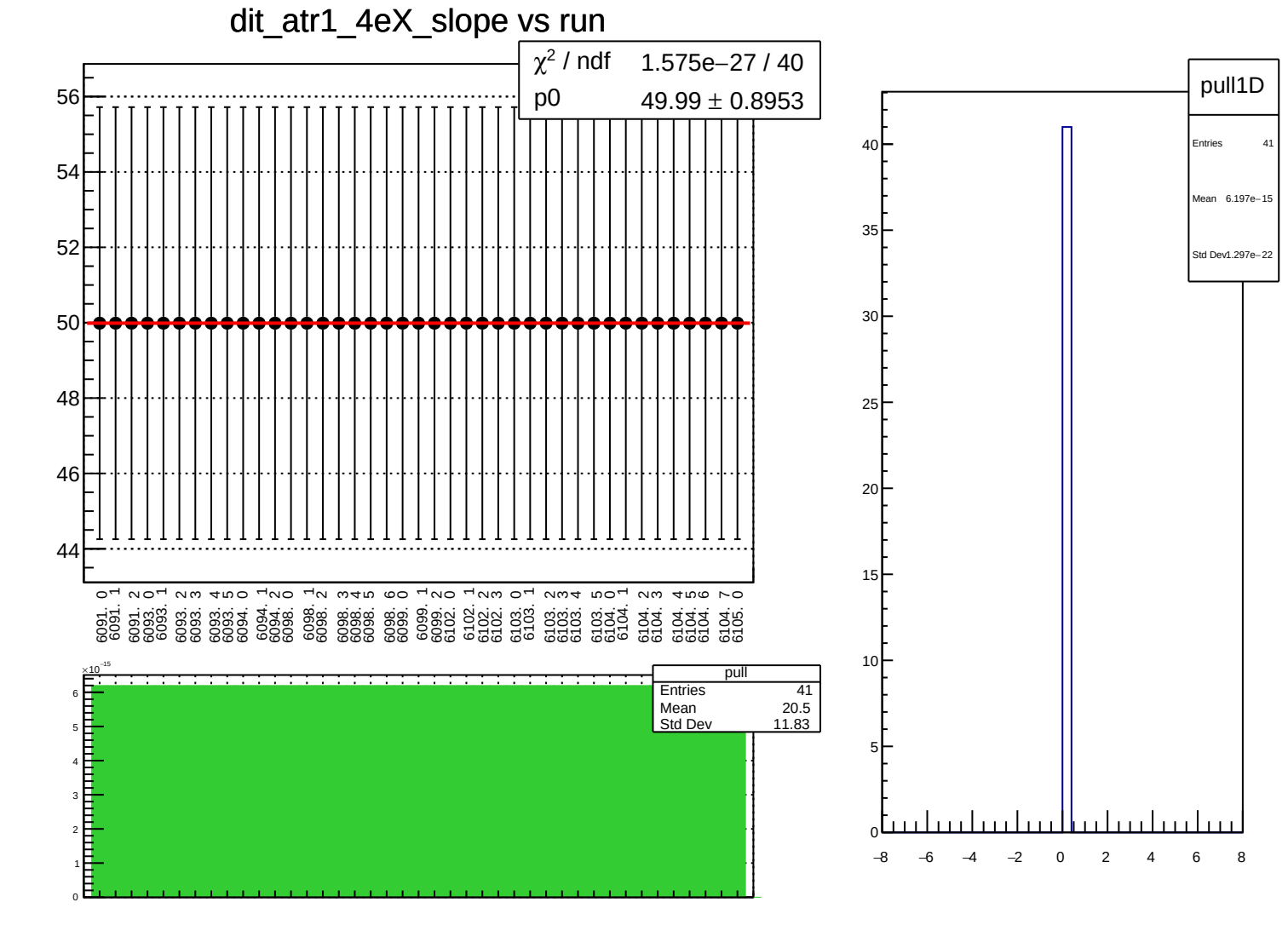

dit_atl2_4aY_slope vs run
χ² / ndf 7.226e−28 / 40
p0 −12.92 ± 0.3304
−11
−12
−13
−14
−15
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 4.198e−15
Std Dev1.588e−22

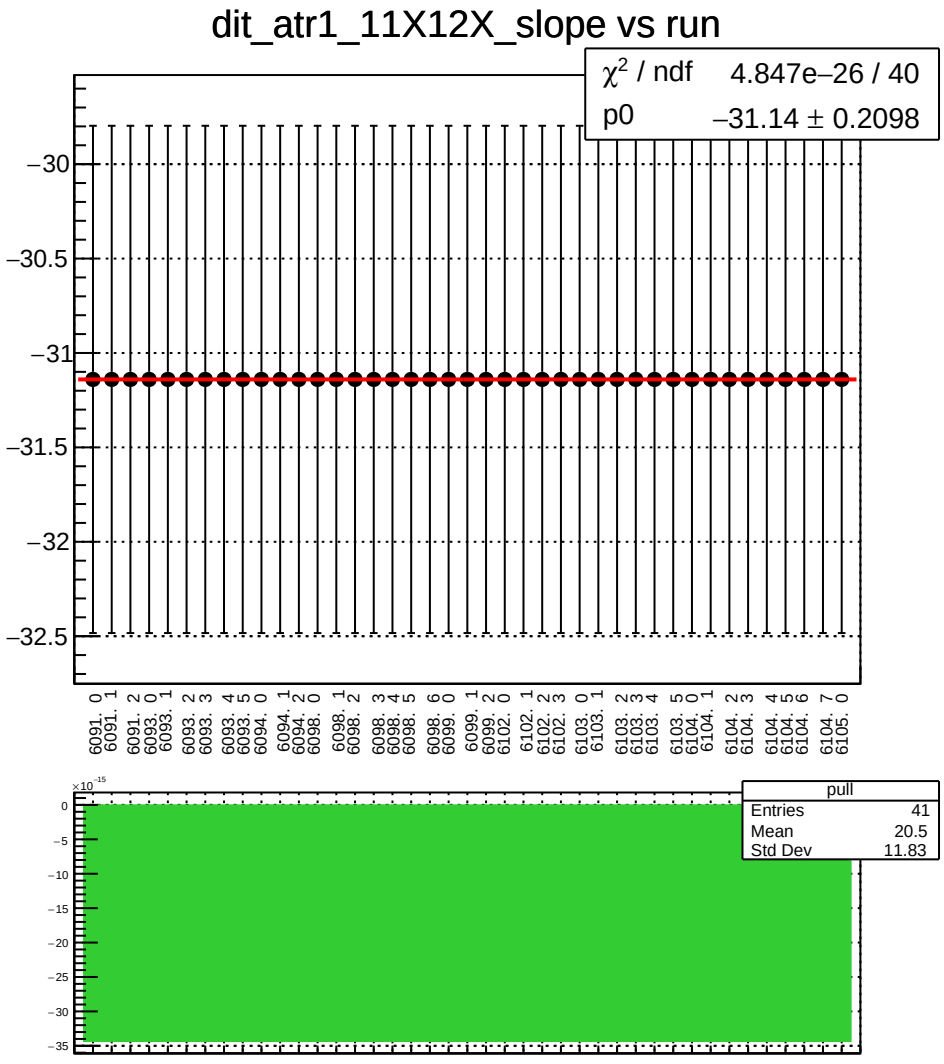

dit_atl2_4eY_slope vs run
χ² / ndf 1.403e−27 / 40
p0 109.4 ± 0.3793
112
111
110
109
108
107
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
6
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

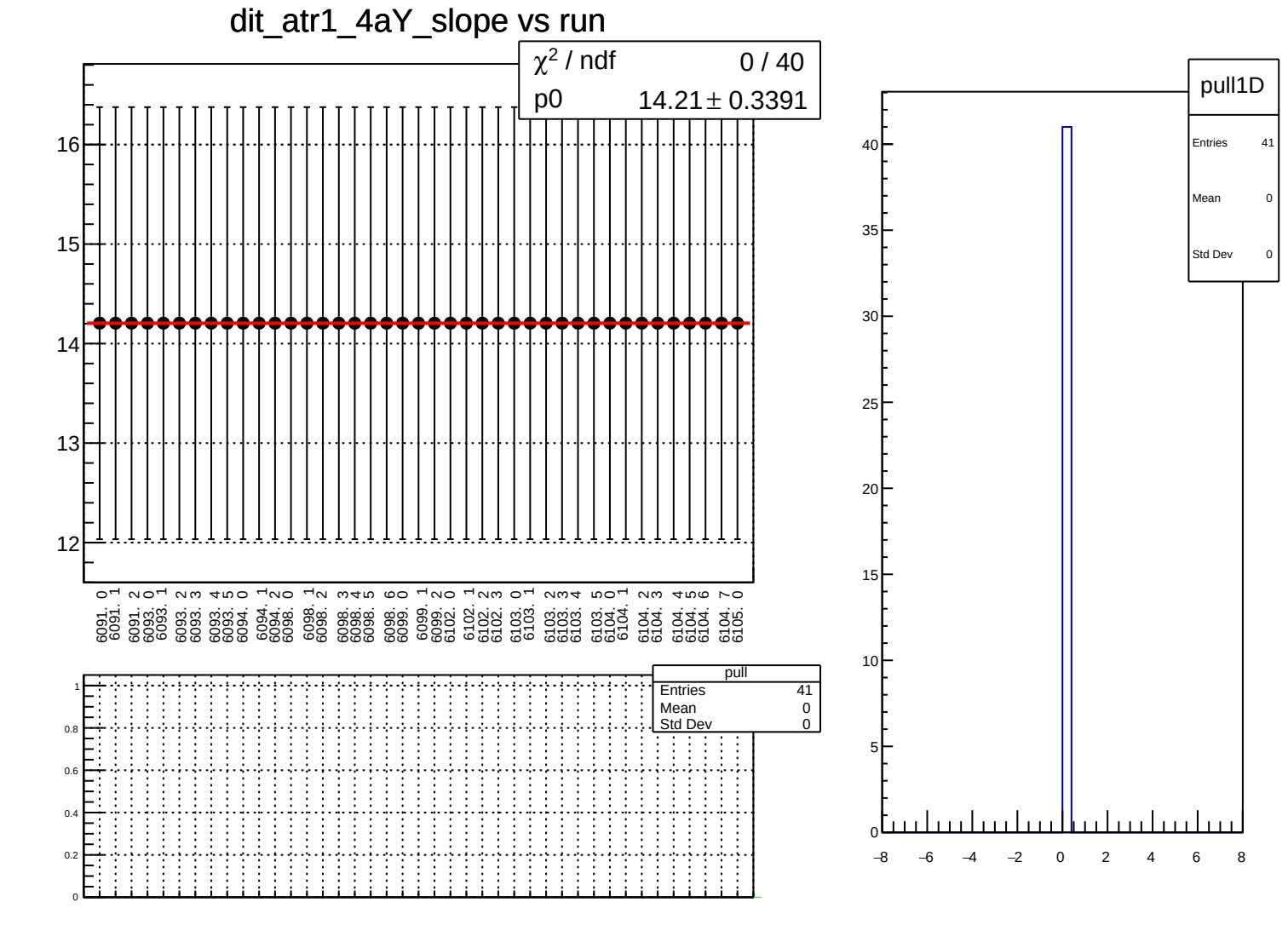

pull1D
Entries 41
Mean 5.851e−15
Std Dev1.497e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

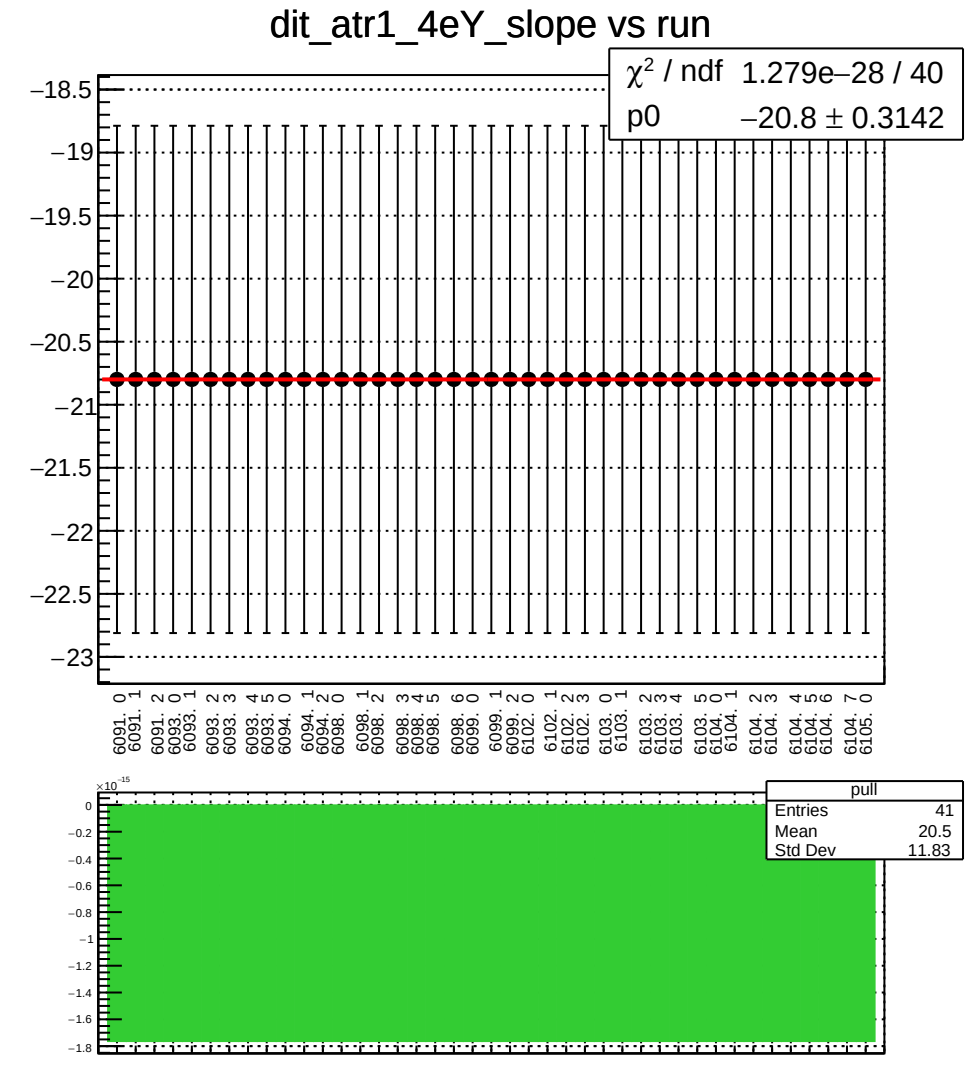

dit_atr1_4aX_slope vs run
χ² / ndf 1.441e−26 / 40
p0 −83.94 ± 0.7103
−80
−82
−84
−86
−88
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 41
Mean 20.5
Std Dev 11.83

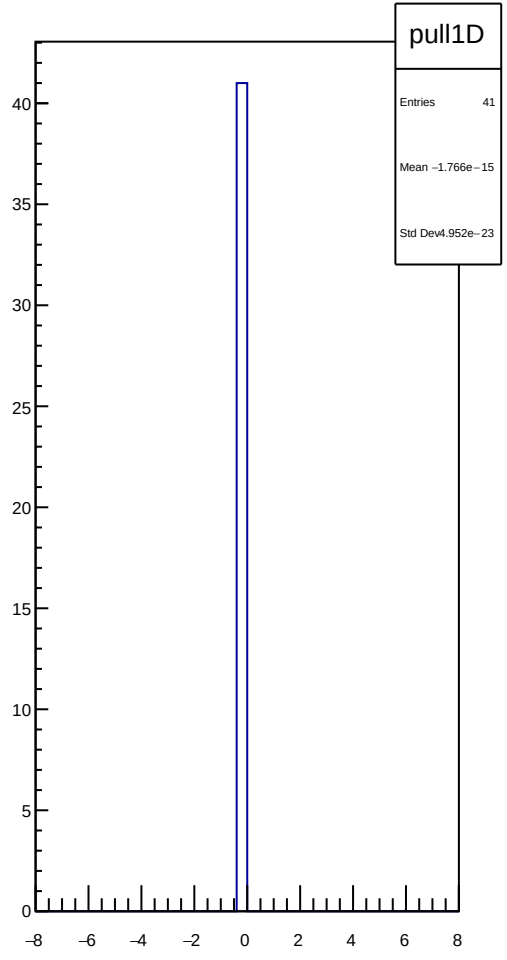

pull1D
Entries 41
Mean −1.875e−14
Std Dev 6.696e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

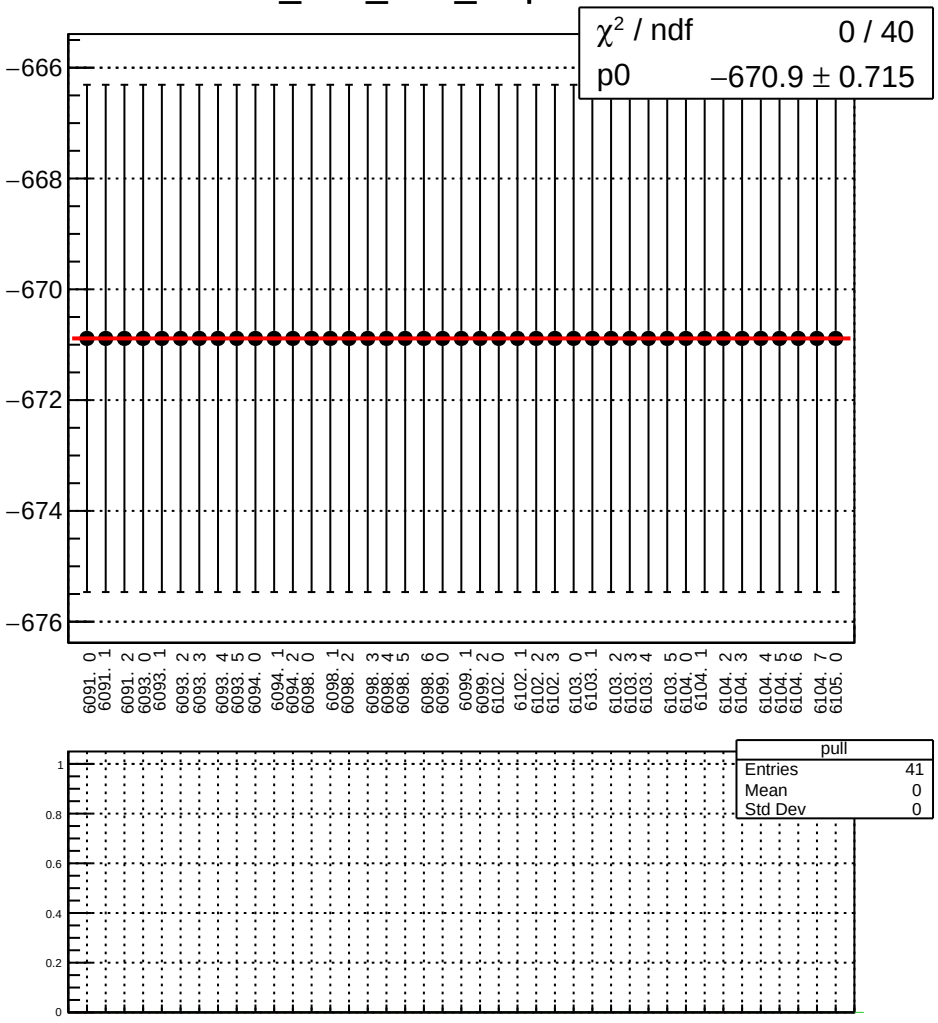

dit_atr1_4eX_slope vs run
χ² / ndf 1.575e−27 / 40
p0 49.99 ± 0.8953
56
54
52
50
48
46
44
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
6
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 6.197e−15
Std Dev1.297e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

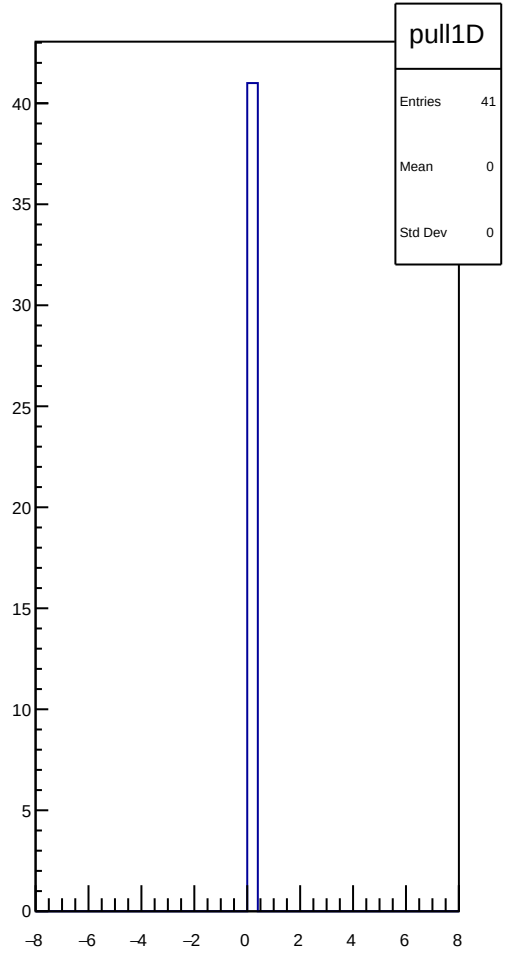

dit_atr1_11X12X_slope vs run
χ² / ndf 4.847e−26 / 40
p0 −31.14 ± 0.2098
−30
−30.5
−31
−31.5
−32
−32.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −3.438e−14
Std Dev 8.47e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

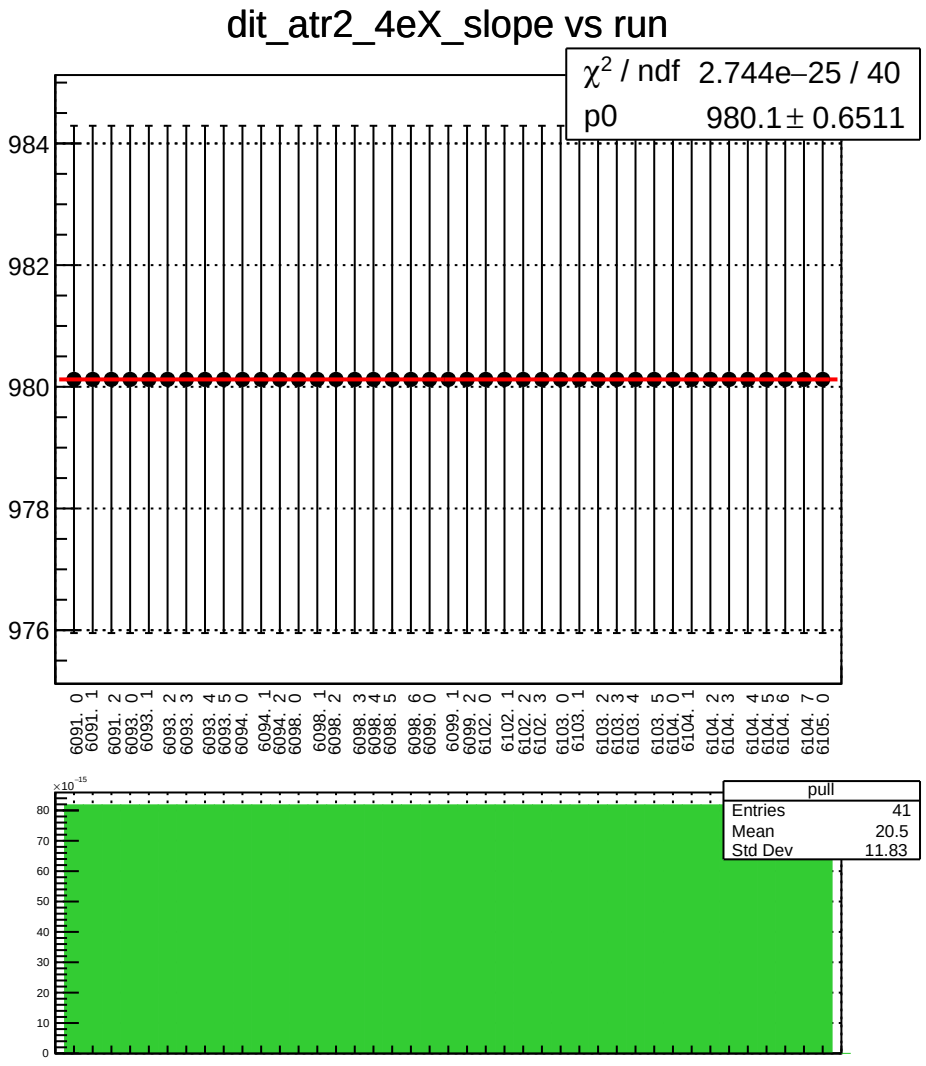

dit_atr1_4aY_slope vs run
χ² / ndf 0 / 40
p0 14.21 ± 0.3391
16
15
14
13
12
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
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

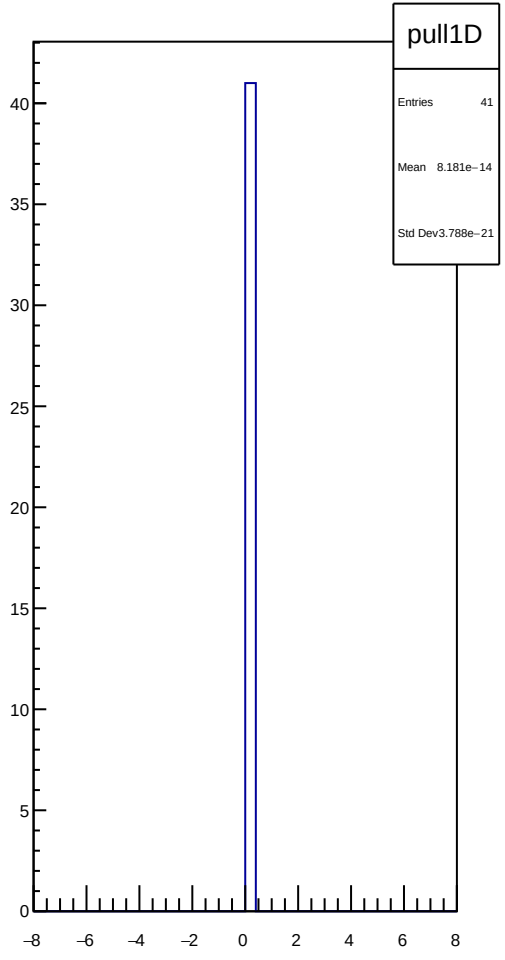

dit_atr1_4eY_slope vs run
χ² / ndf 1.279e−28 / 40
p0 −20.8 ± 0.3142
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
−22.5
−23
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 41
Mean 20.5
Std Dev 11.83

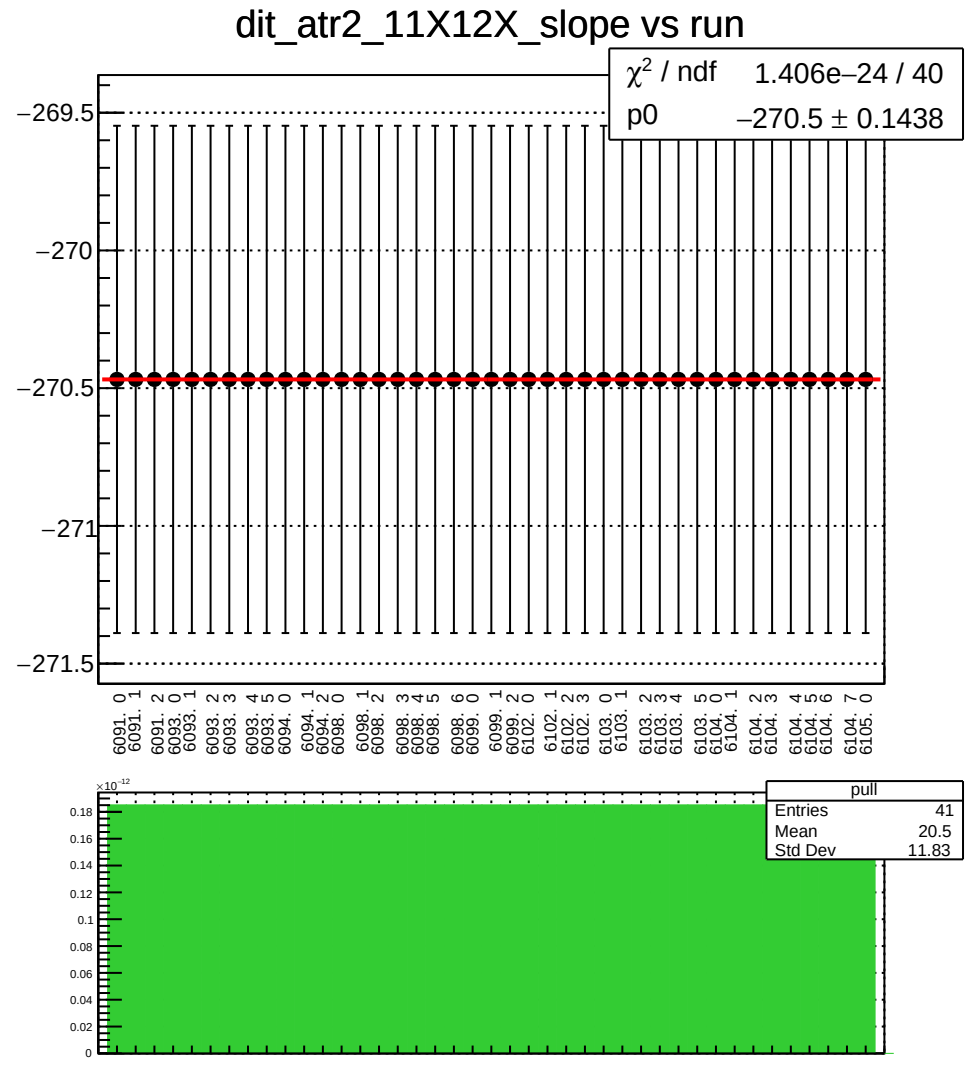

pull1D
Entries 41
Mean −1.766e−15
Std Dev4.952e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

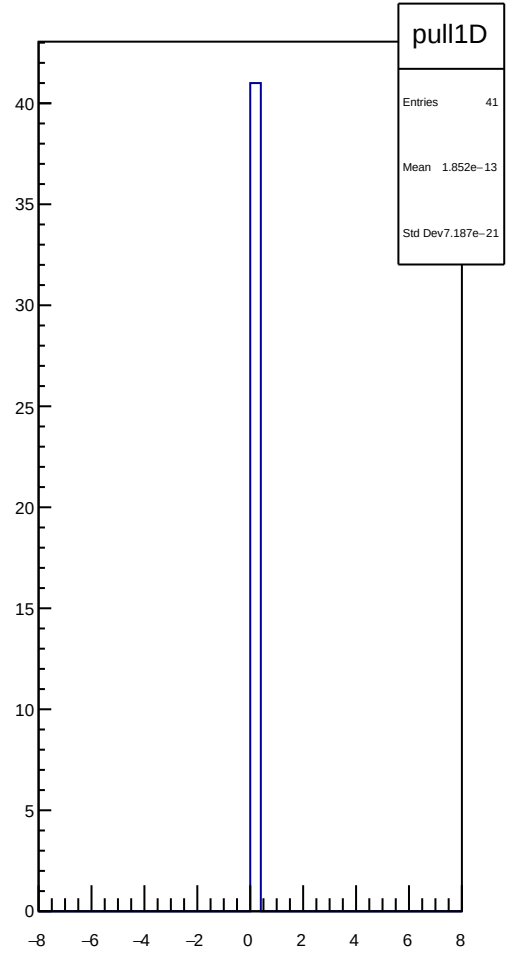

dit_atr2_4aX_slope vs run
χ² / ndf 0 / 40
p0 −670.9 ± 0.715
−666
−668
−670
−672
−674
−676
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

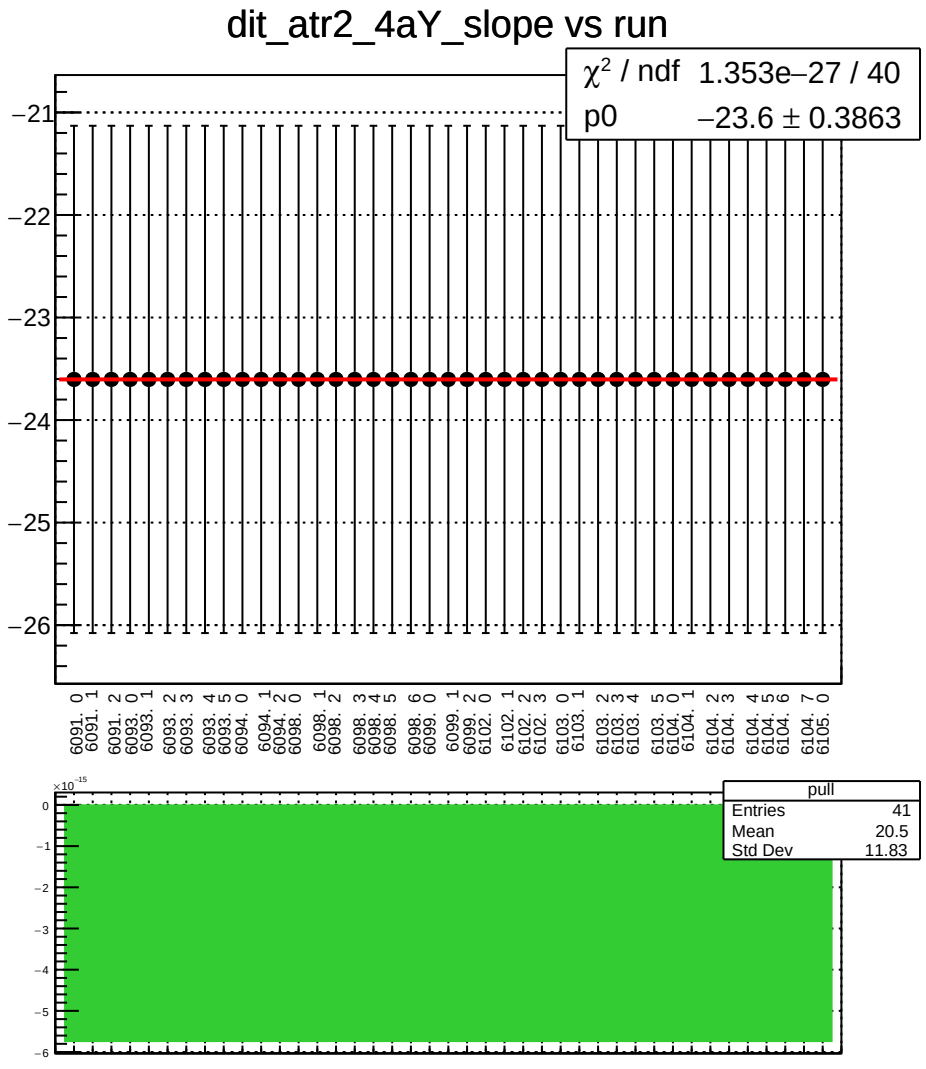

pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_4eX_slope vs run
χ² / ndf 2.744e−25 / 40
p0 980.1 ± 0.6511
984
982
980
978
976
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
80
70
60
50
40
30
20
10
0
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean 8.181e−14
Std Dev3.788e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_11X12X_slope vs run
χ² / ndf 1.406e−24 / 40
p0 −270.5 ± 0.1438
−269.5
−270
−270.5
−271
−271.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0.18
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 1.852e−13
Std Dev7.187e−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 1.353e−27 / 40
p0 −23.6 ± 0.3863
−21
−22
−23
−24
−25
−26
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
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6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −5.745e−15
Std Dev1.674e−22
40
35
30
25
20
15
10
5
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−8
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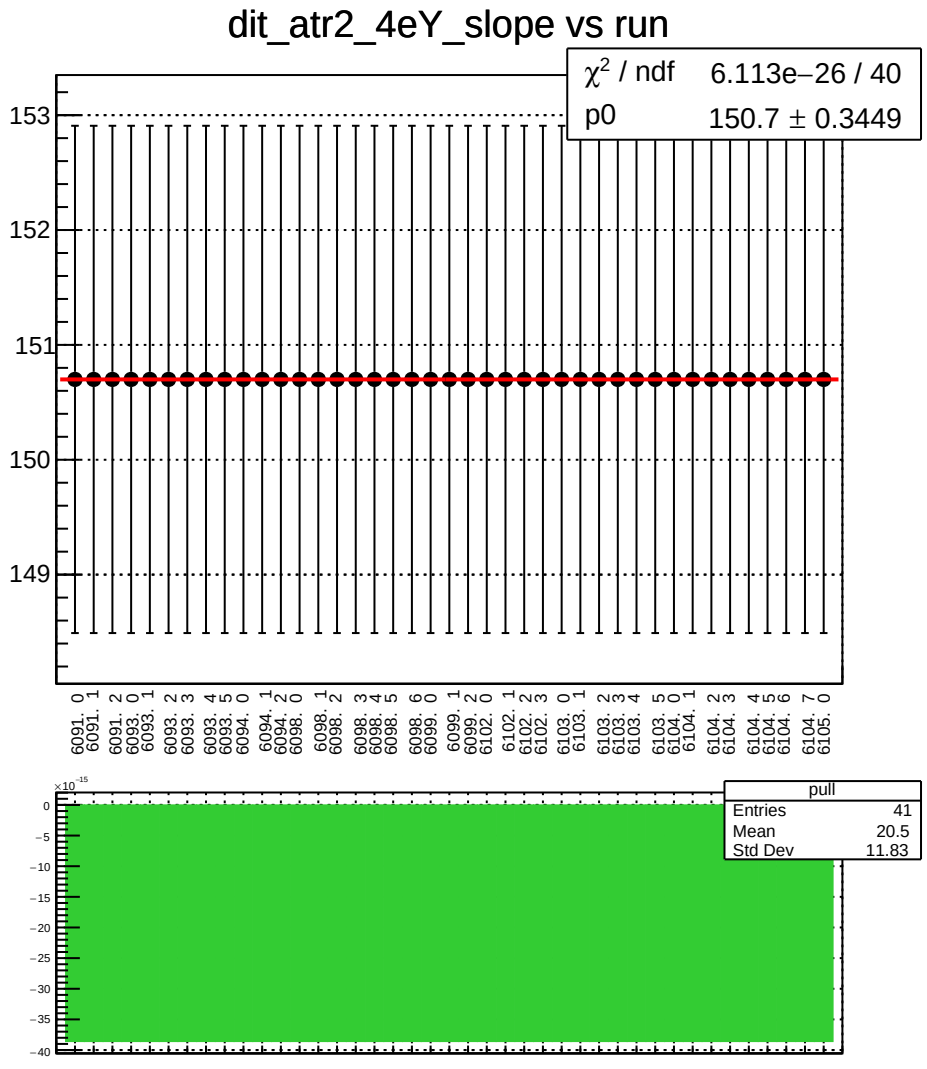
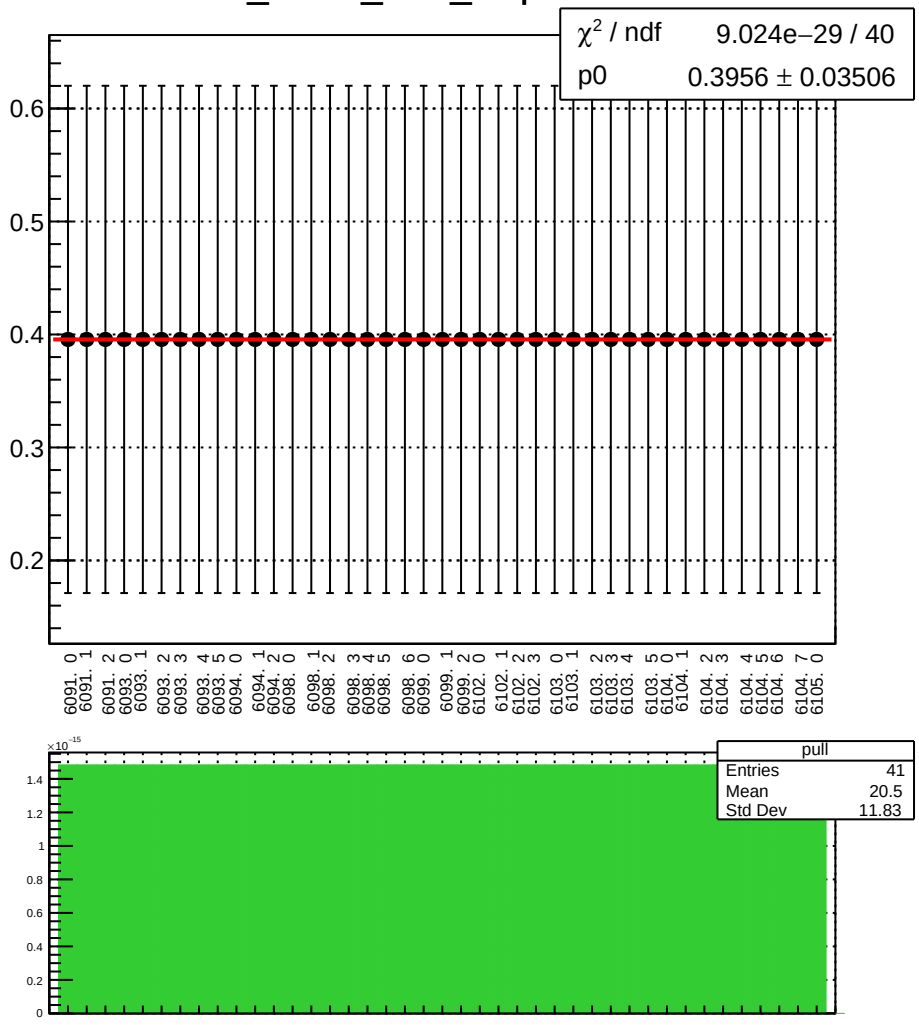
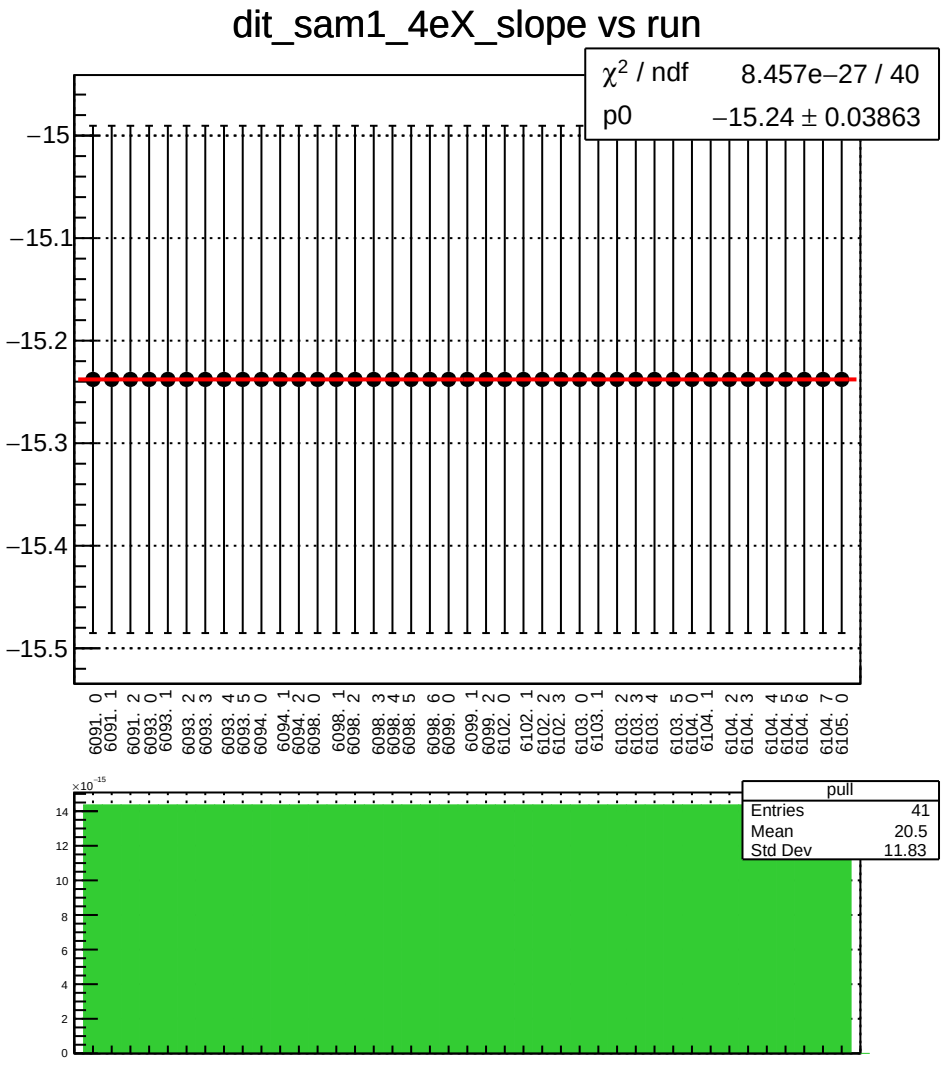
−4
−2
0
2
4
6
8


dit_atr2_4eY_slope vs run
χ² / ndf 6.113e−26 / 40
p0 150.7 ± 0.3449
153
152
151
150
149
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻±⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −3.861e−14
Std Dev1.198e−21
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 9.024e−29 / 40
p0 0.3956 ± 0.03506
0.6
0.5
0.4
0.3
0.2
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×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 1.484e−15
Std Dev1.872e−23
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 8.457e−27 / 40
p0 −15.24 ± 0.03863
−15
−15.1
−15.2
−15.3
−15.4
−15.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
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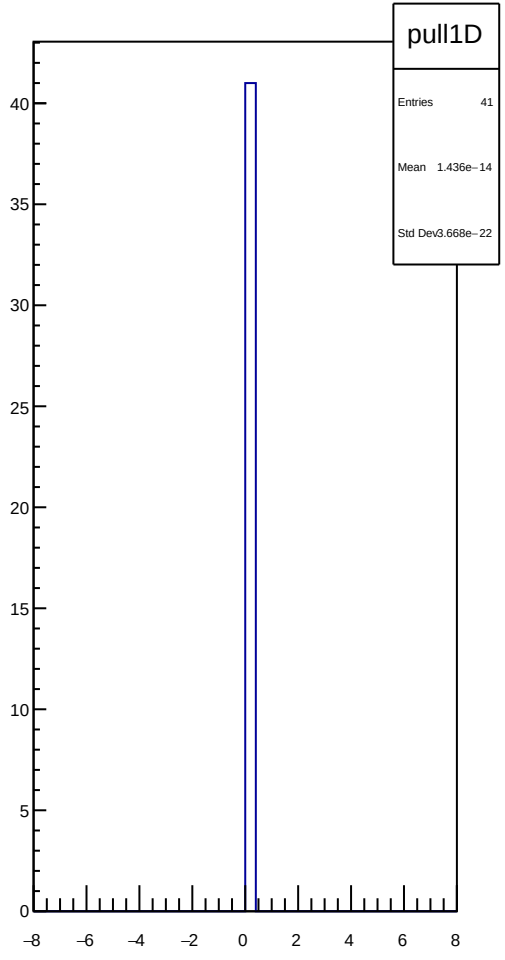
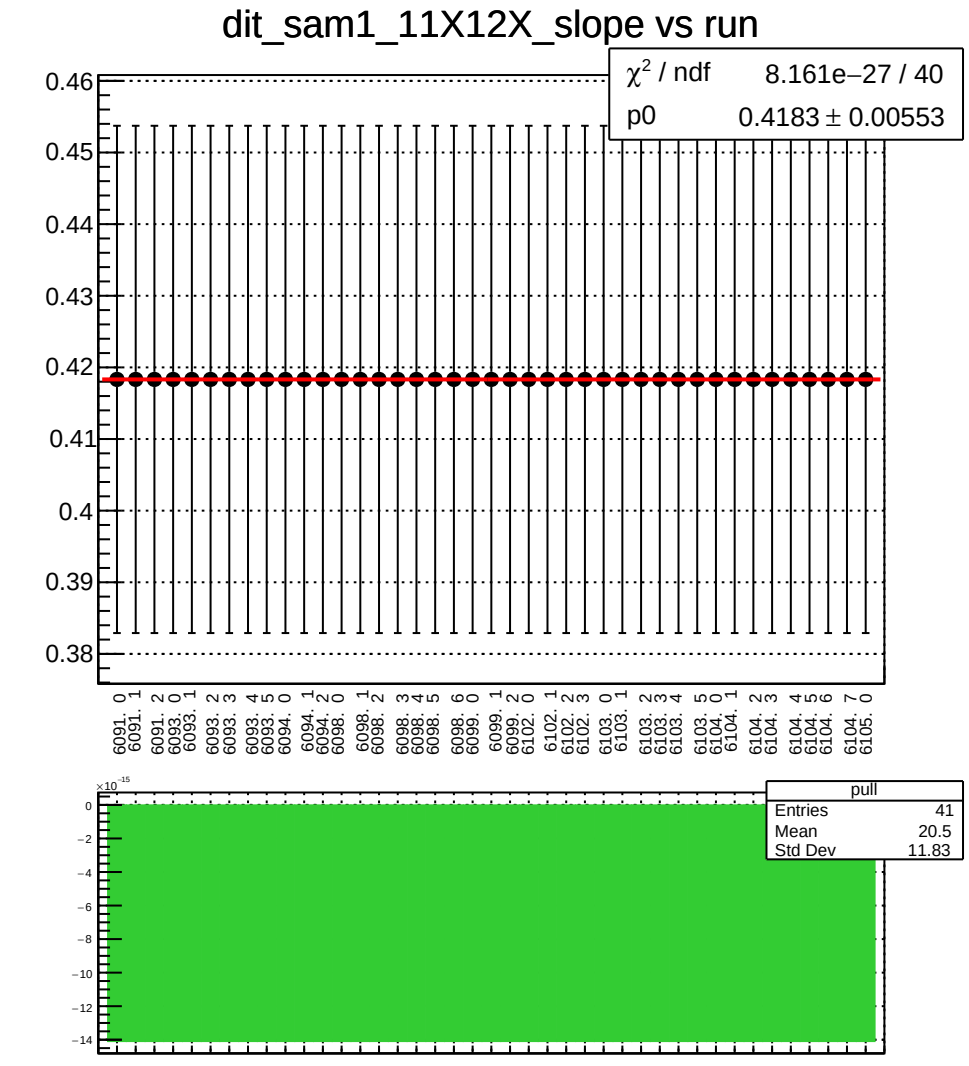
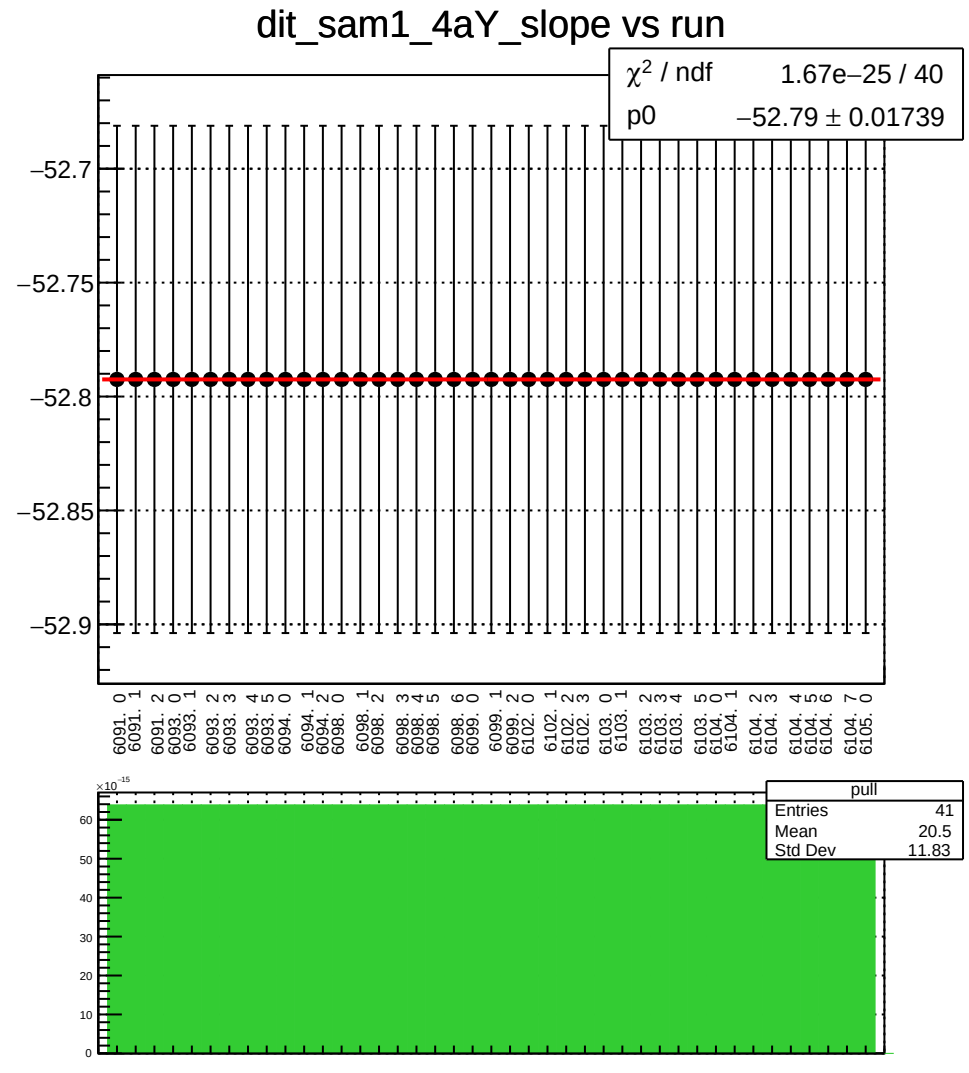
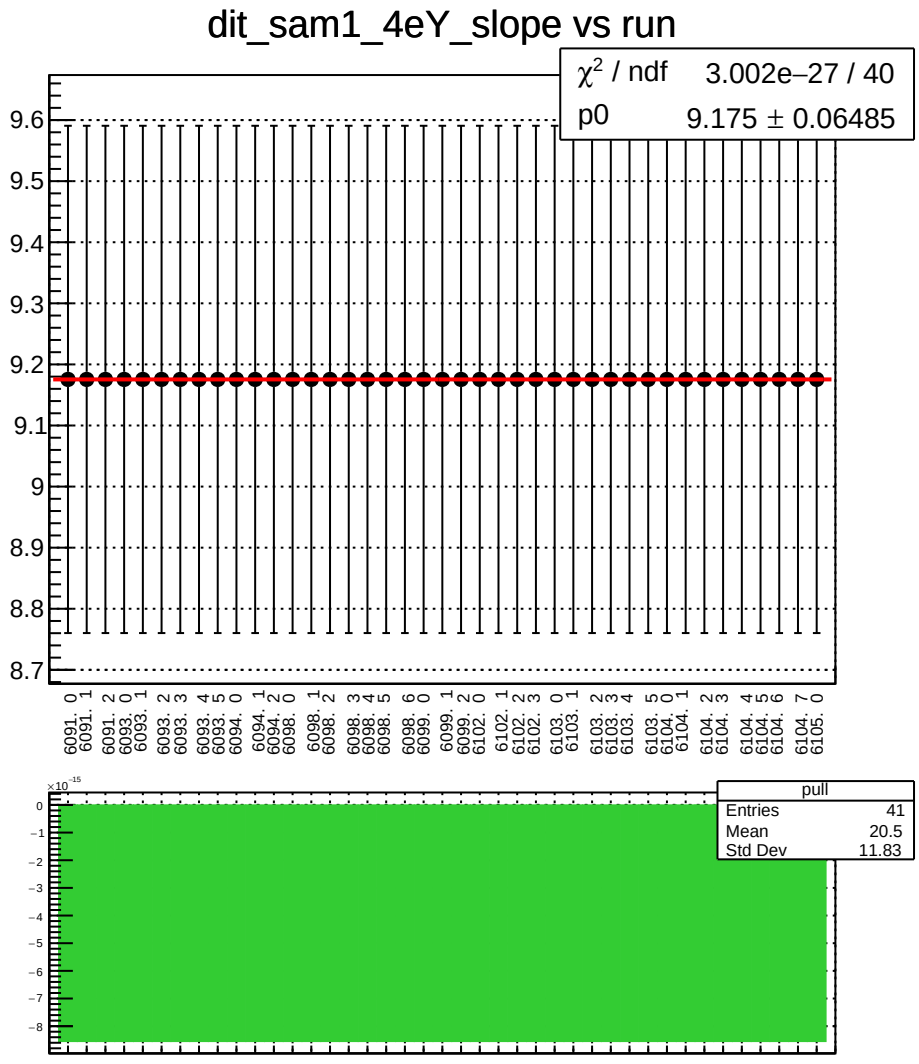
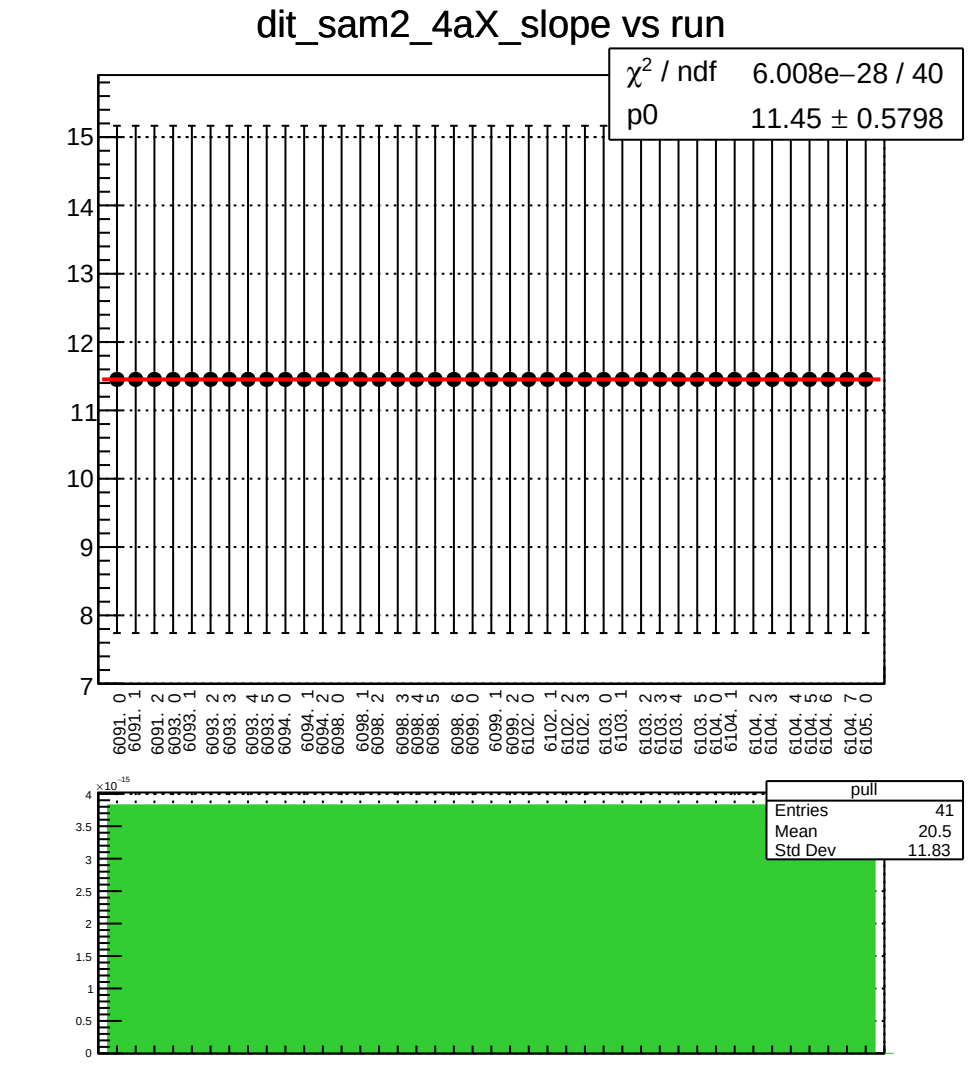
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

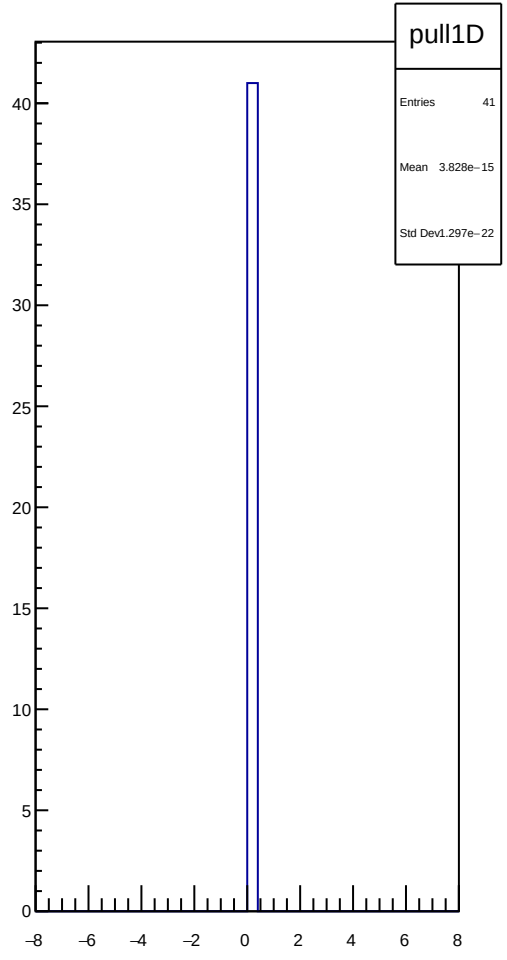

pull1D
Entries 41
Mean 1.436e−14
Std Dev 3.668e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

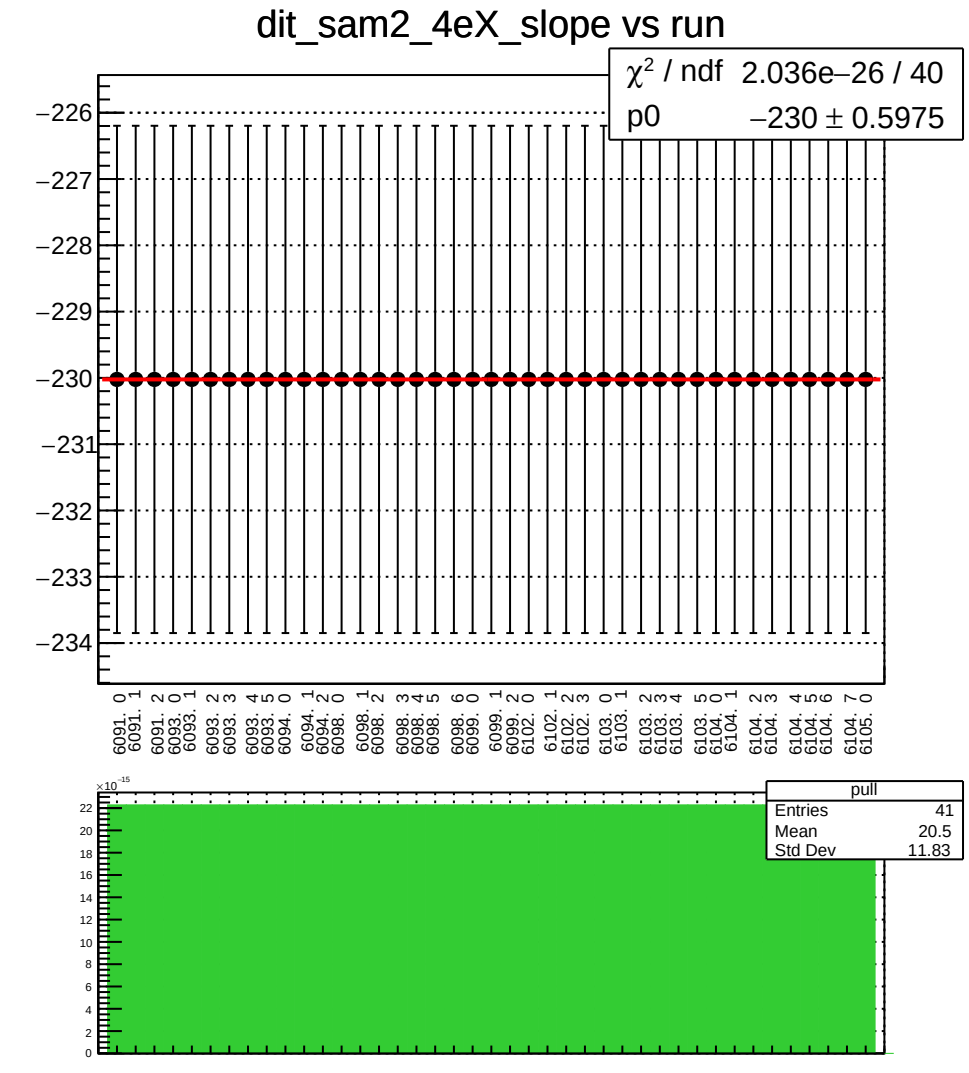

dit_sam1_11X12X_slope vs run
χ² / ndf 8.161e−27 / 40
p0 0.4183 ± 0.00553
0.46
0.45
0.44
0.43
0.42
0.41
0.4
0.39
0.38
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻�15
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.411e−14
Std Dev1.497e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

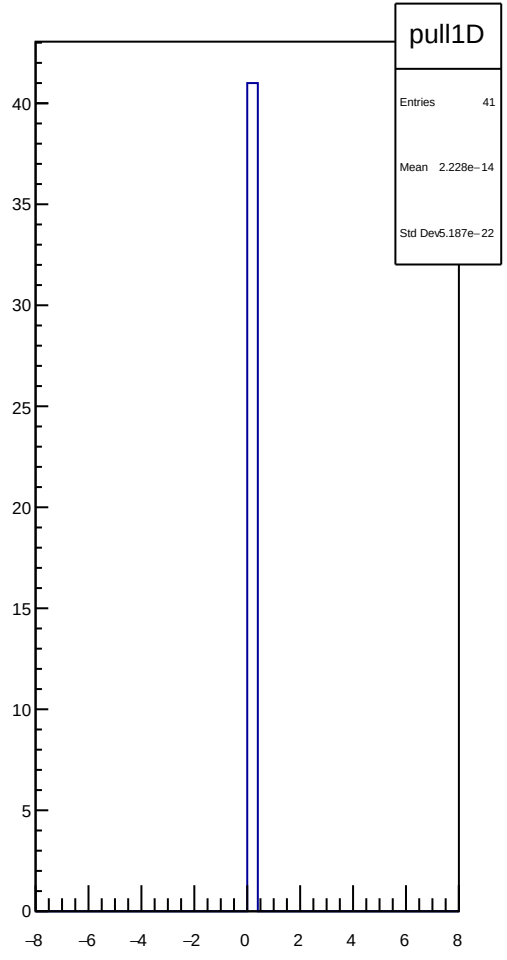

dit_sam1_4aY_slope vs run
χ² / ndf 1.67e−25 / 40
p0 −52.79 ± 0.01739
−52.7
−52.75
−52.8
−52.85
−52.9
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻�15
pull
Entries 41
Mean 20.5
Std Dev 11.83
60
50
40
30
20
10
0
pull1D
Entries 41
Mean 6.382e−14
Std Dev2.075e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

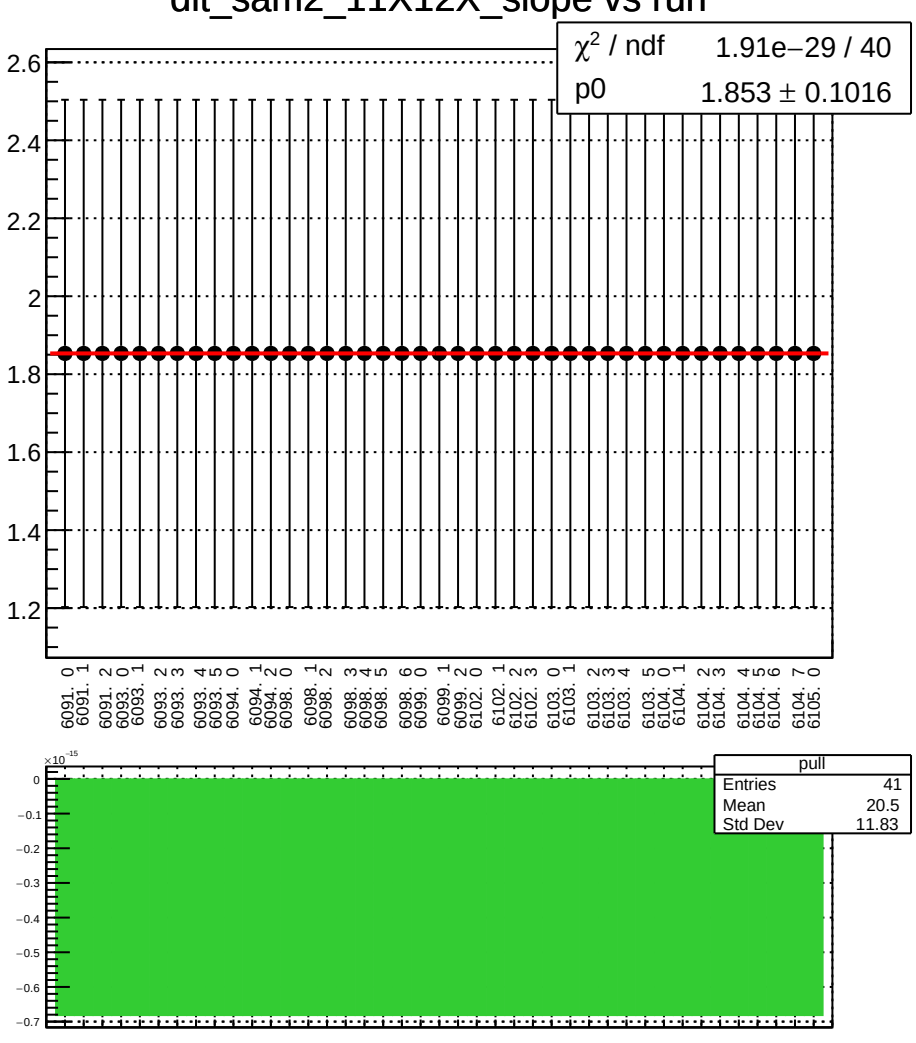

dit_sam1_4eY_slope vs run
χ² / ndf 3.002e−27 / 40
p0 9.175 ± 0.06485
9.6
9.5
9.4
9.3
9.2
9.1
9
8.9
8.8
8.7
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
−8
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −8.556e−15
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

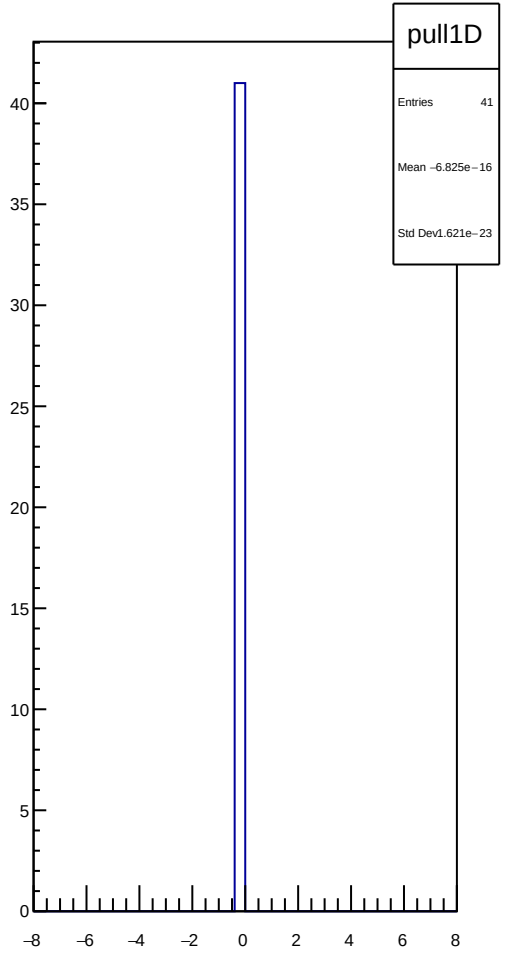

dit_sam2_4aX_slope vs run
χ² / ndf 6.008e−28 / 40
p0 11.45 ± 0.5798
15
14
13
12
11
10
9
8
7
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

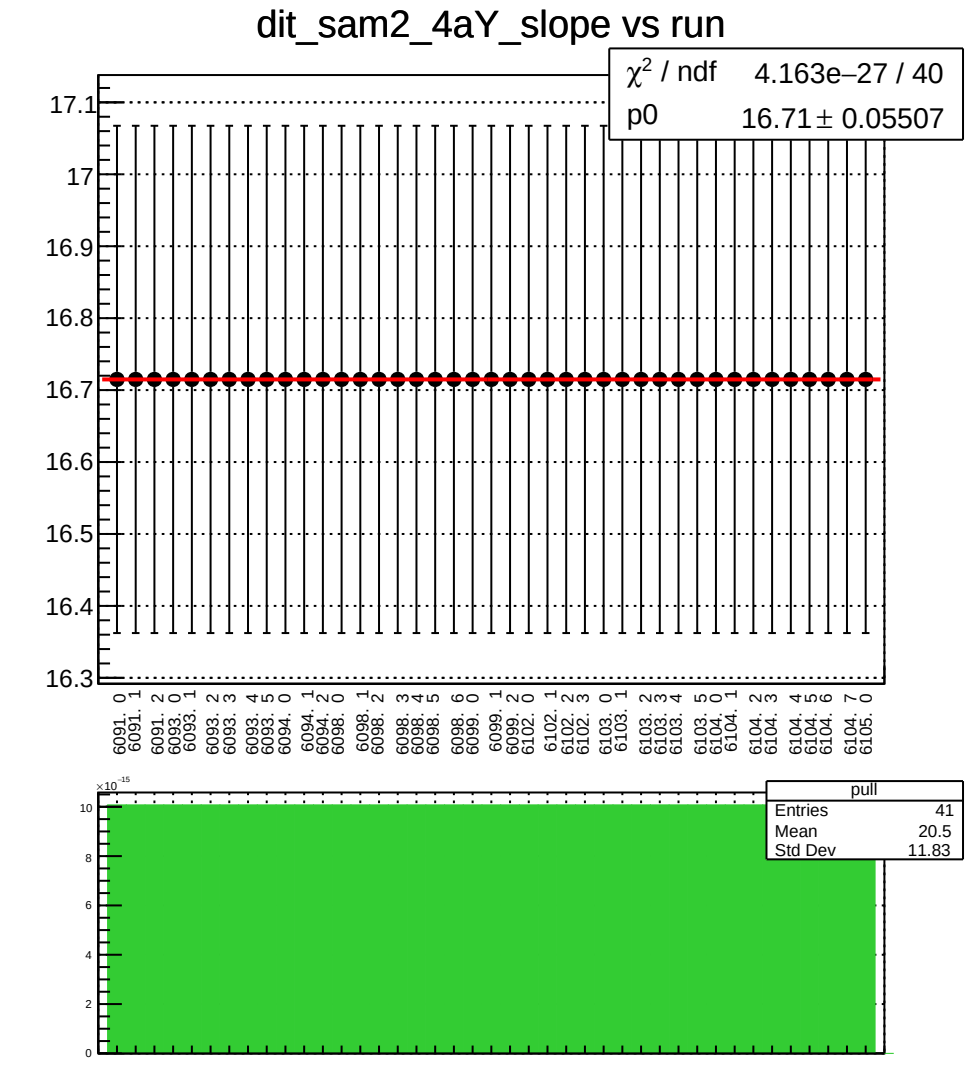

pull1D
Entries 41
Mean 3.828e−15
Std Dev1.297e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

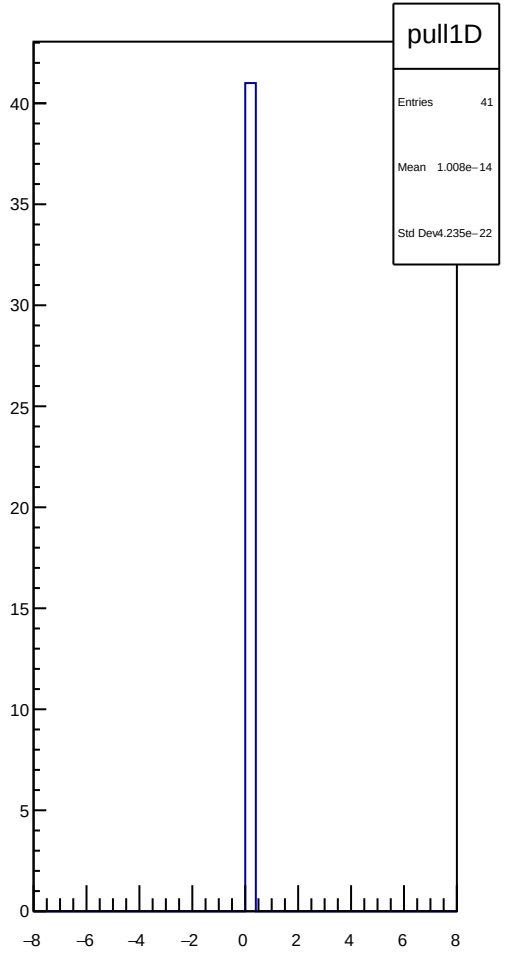

dit_sam2_4eX_slope vs run
χ² / ndf 2.036e−26 / 40
p0 −230 ± 0.5975
−226
−227
−228
−229
−230
−231
−232
−233
−234
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

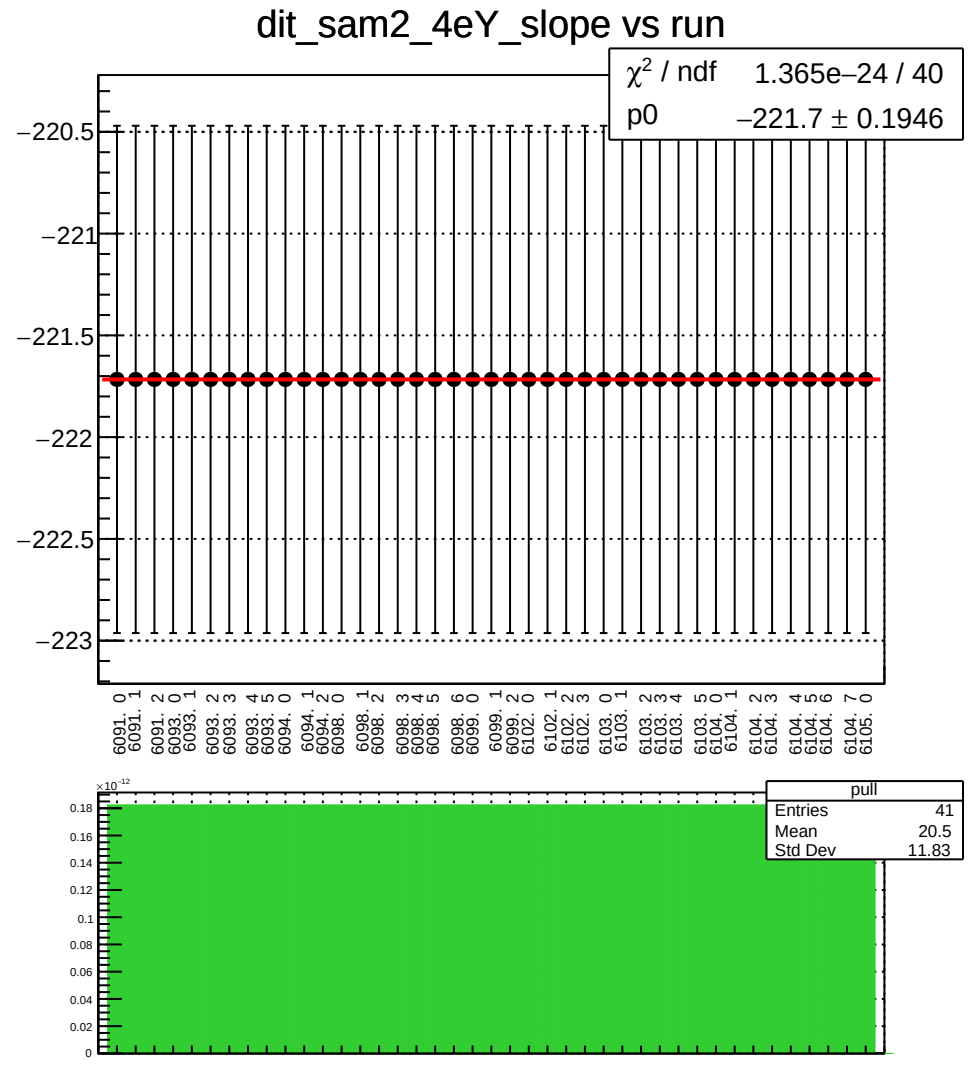

pull1D
Entries 41
Mean 2.228e−14
Std Dev 5.187e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

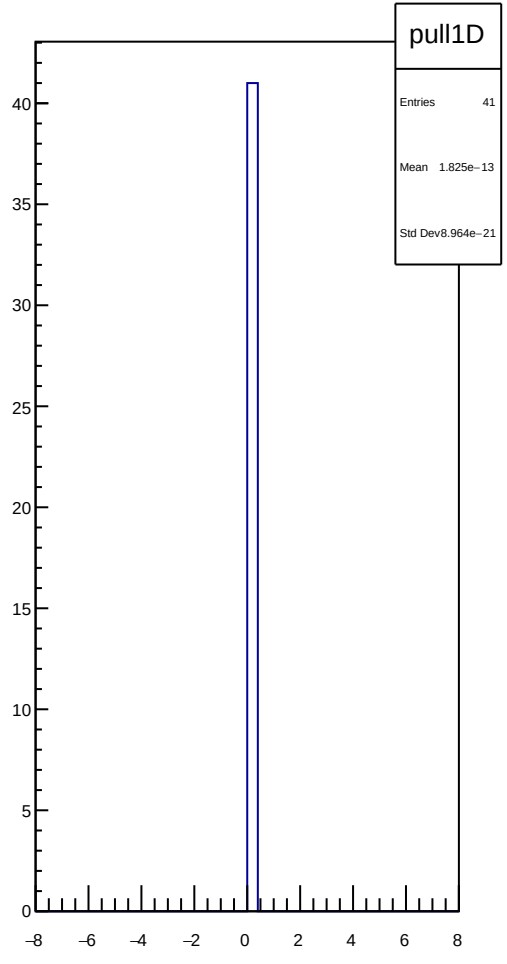

dit_sam2_11X12X_slope vs run
χ² / ndf 1.91e−29 / 40
p0 1.853 ± 0.1016
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻�15
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 41
Mean 20.5
Std Dev 11.83

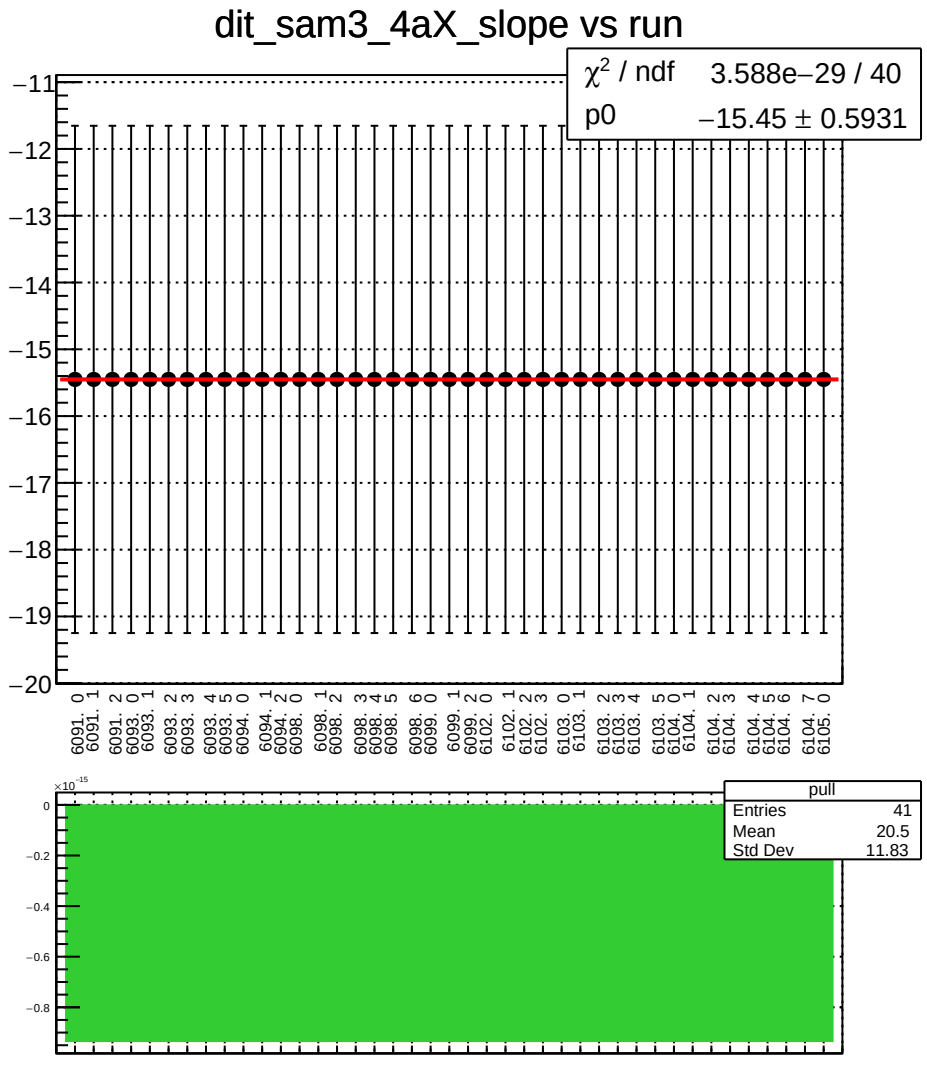

pull1D
Entries 41
Mean −6.825e−16
Std Dev1.621e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

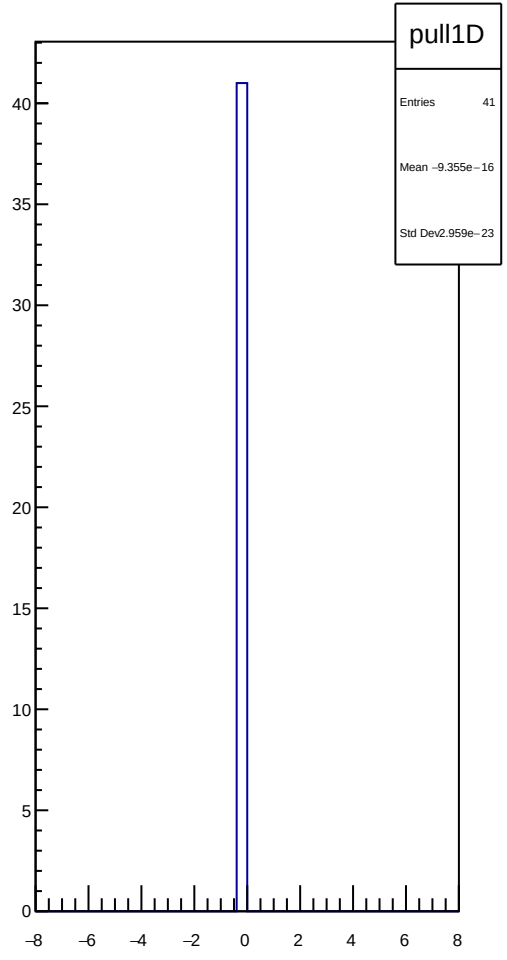

dit_sam2_4aY_slope vs run
χ² / ndf 4.163e−27 / 40
p0 16.71 ± 0.05507
17.1
17
16.9
16.8
16.7
16.6
16.5
16.4
16.3
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

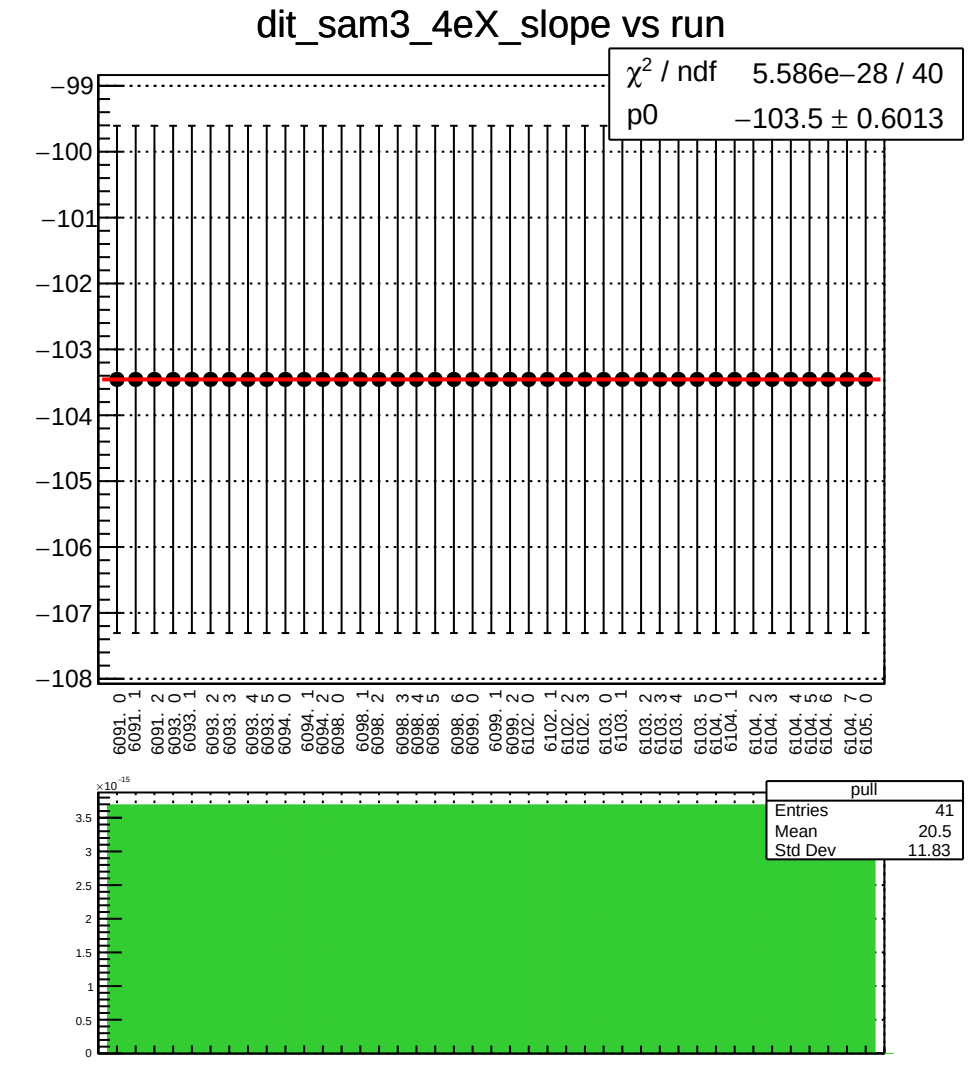

pull1D
Entries 41
Mean 1.008e−14
Std Dev4.235e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

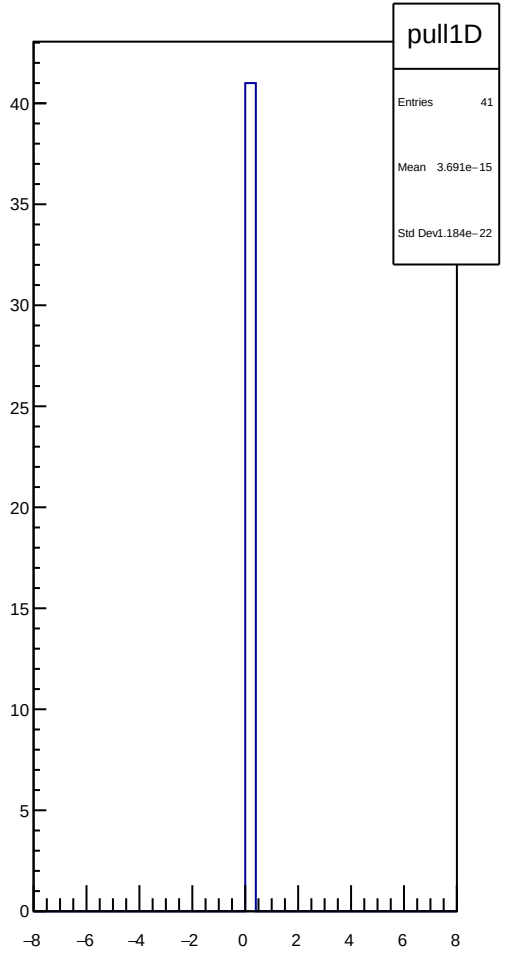

dit_sam2_4eY_slope vs run
χ² / ndf 1.365e−24 / 40
p0 −221.7 ± 0.1946
−220.5
−221
−221.5
−222
−222.5
−223
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0.18
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

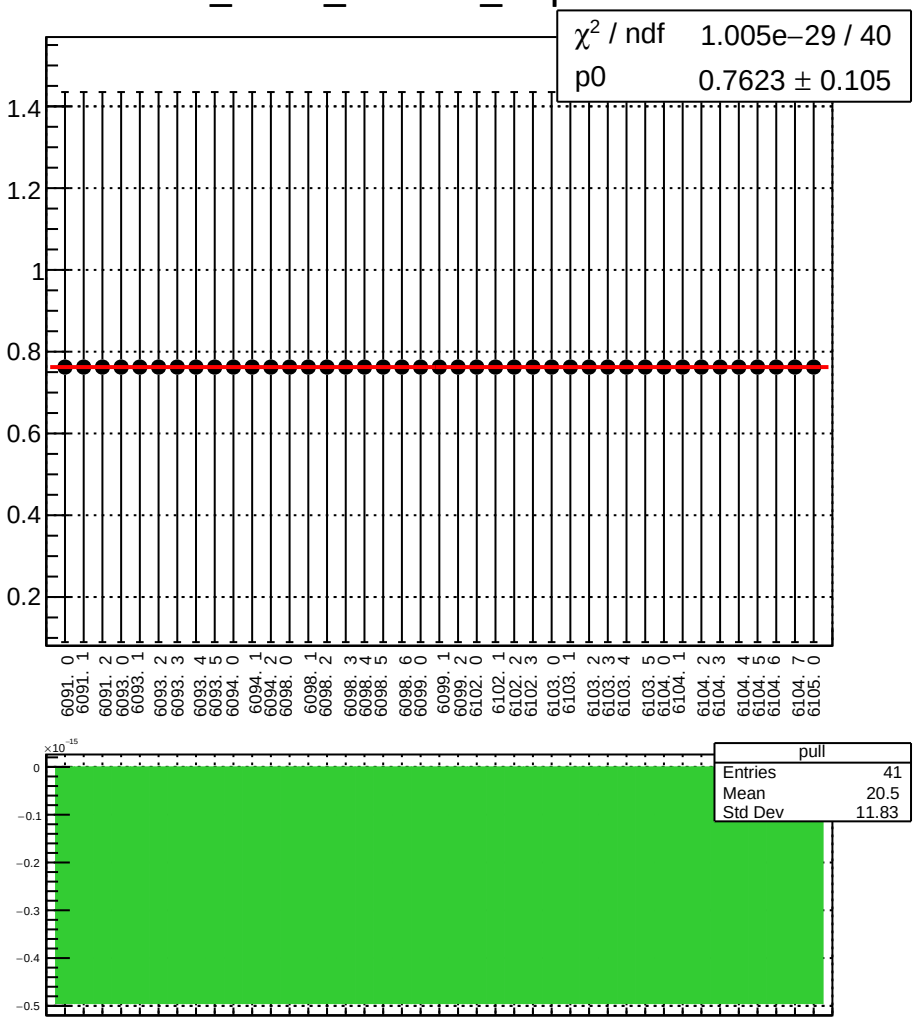

pull1D
Entries 41
Mean 1.825e−13
Std Dev8.964e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

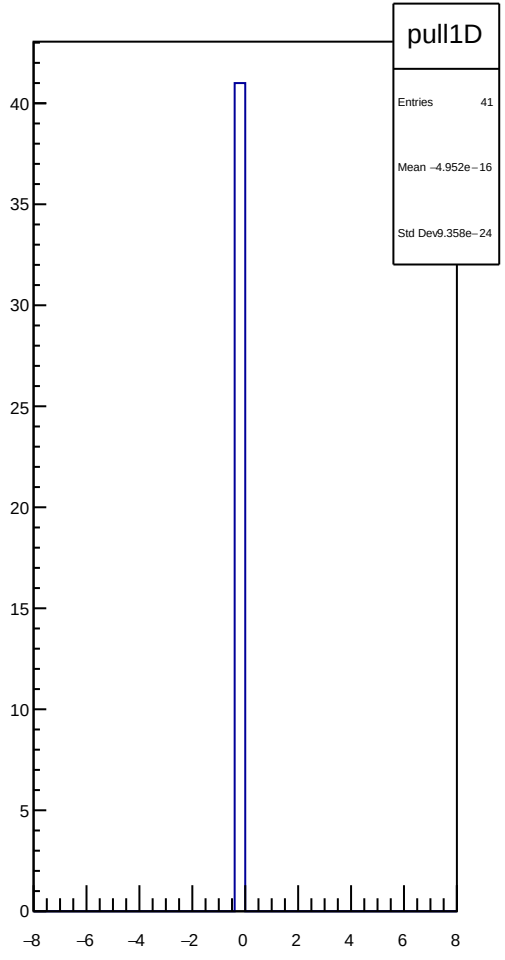

dit_sam3_4aX_slope vs run
χ² / ndf 3.588e−29 / 40
p0 −15.45 ± 0.5931
−11
−12
−13
−14
−15
−16
−17
−18
−19
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 41
Mean 20.5
Std Dev 11.83

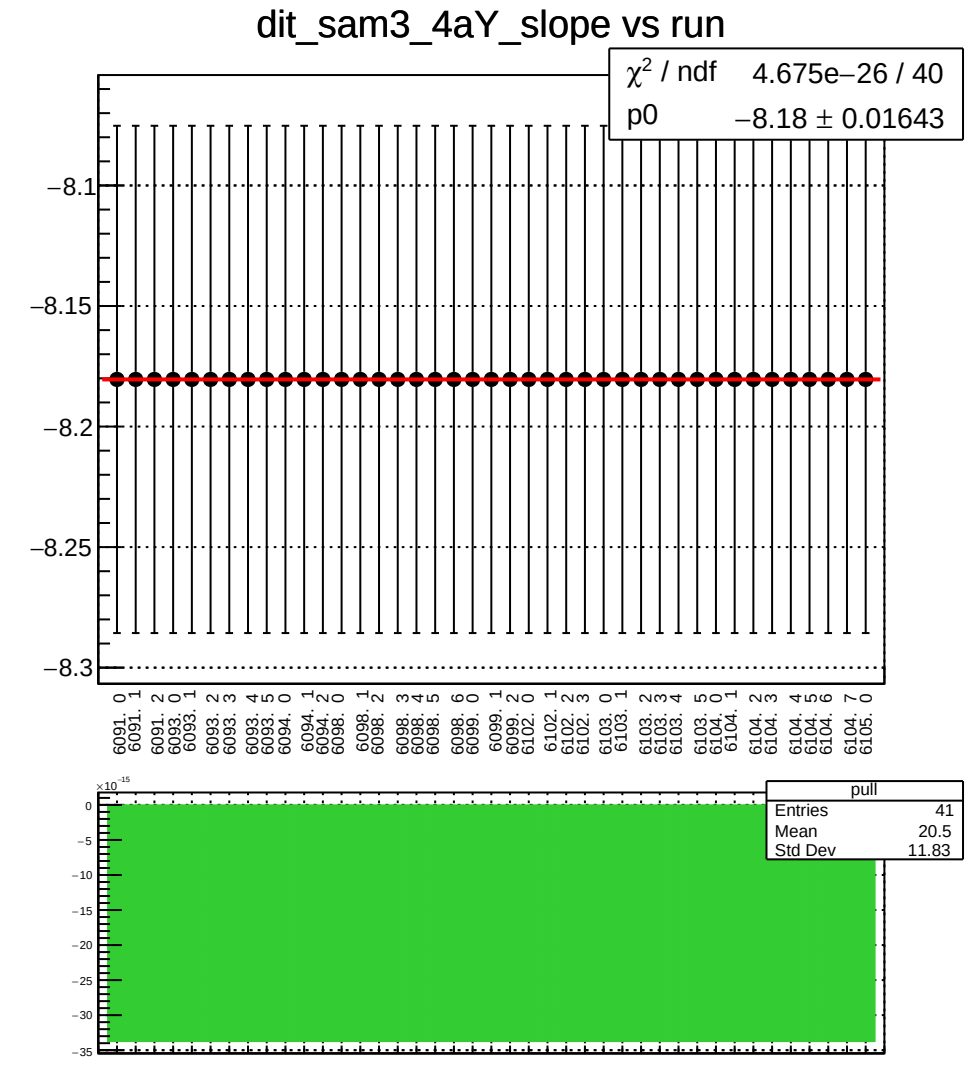

pull1D
Entries 41
Mean −9.355e−16
Std Dev2.959e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_4eX_slope vs run
χ² / ndf 5.586e−28 / 40
p0 −103.5 ± 0.6013
−99
−100
−101
−102
−103
−104
−105
−106
−107
−108
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×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 3.691e−15
Std Dev1.184e−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 1.005e−29 / 40
p0 0.7623 ± 0.105
1.4
1.2
1
0.8
0.6
0.4
0.2
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean −4.952e−16
Std Dev 9.358e−24
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 4.675e−26 / 40
p0 −8.18 ± 0.01643
−8.1
−8.15
−8.2
−8.25
−8.3
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
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6098. 2
6098. 3
6098. 4
6098. 5
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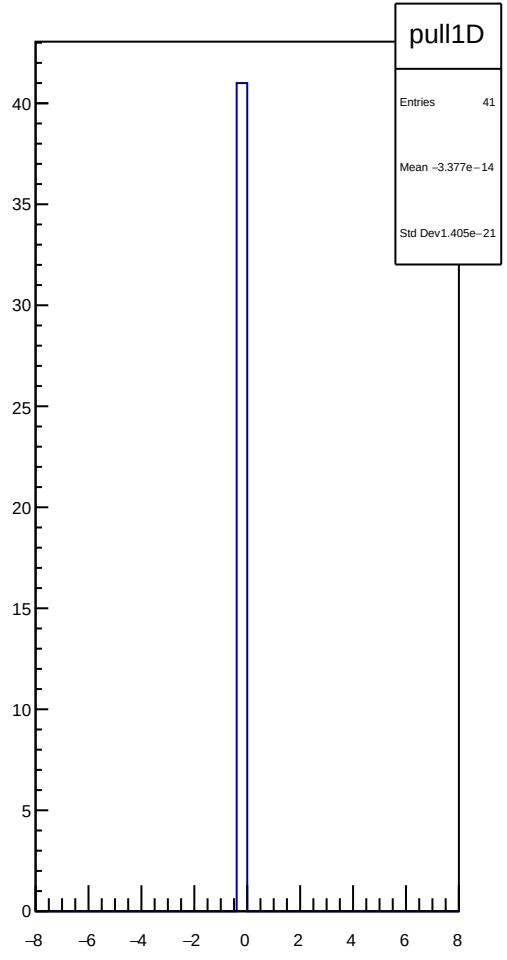
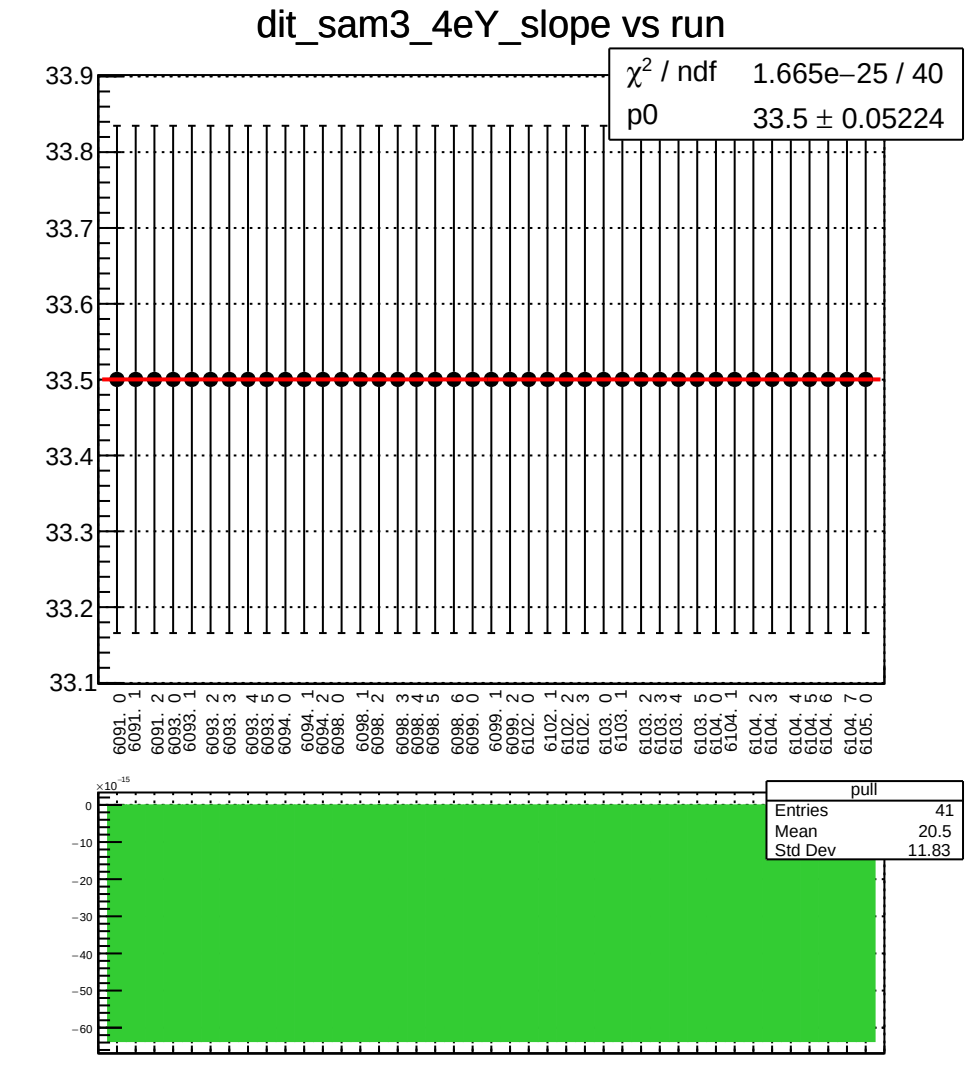
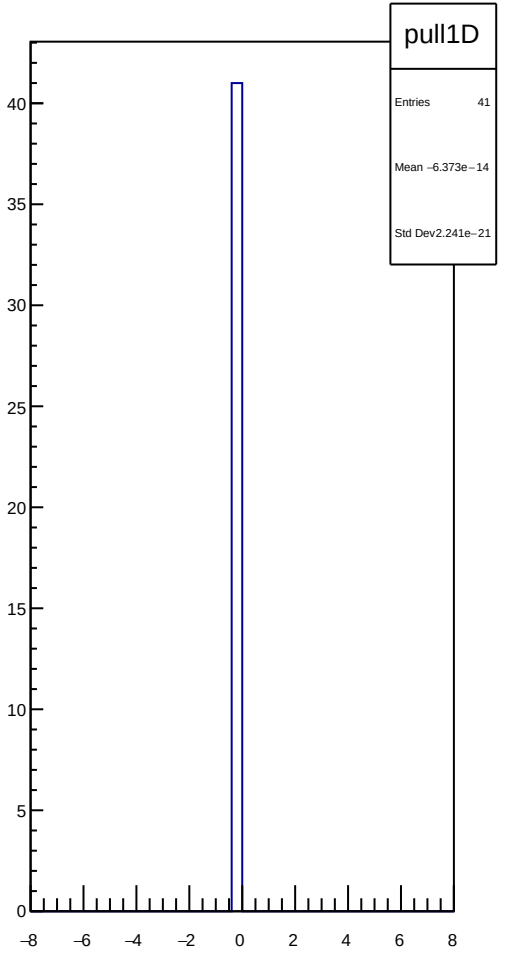
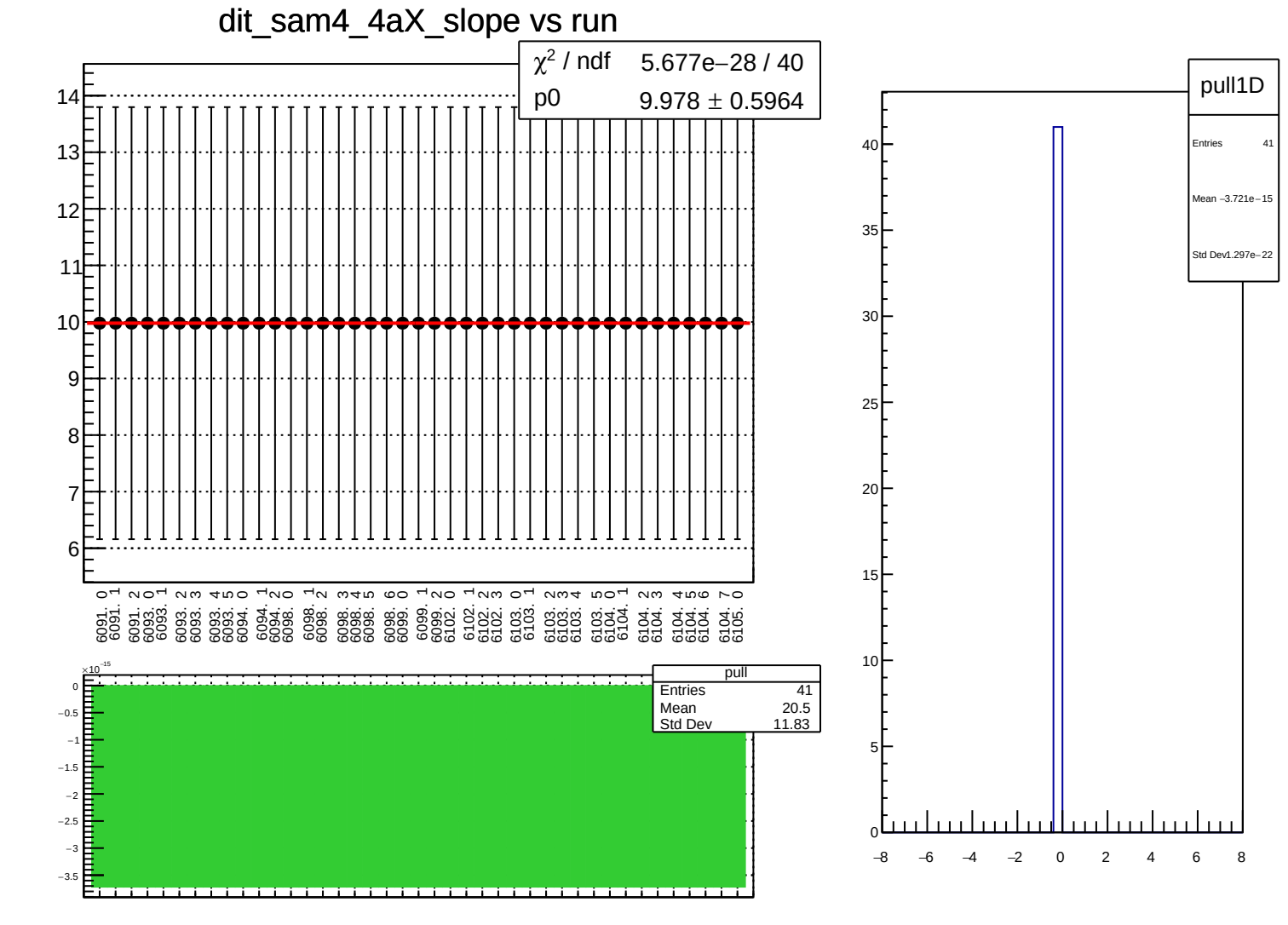
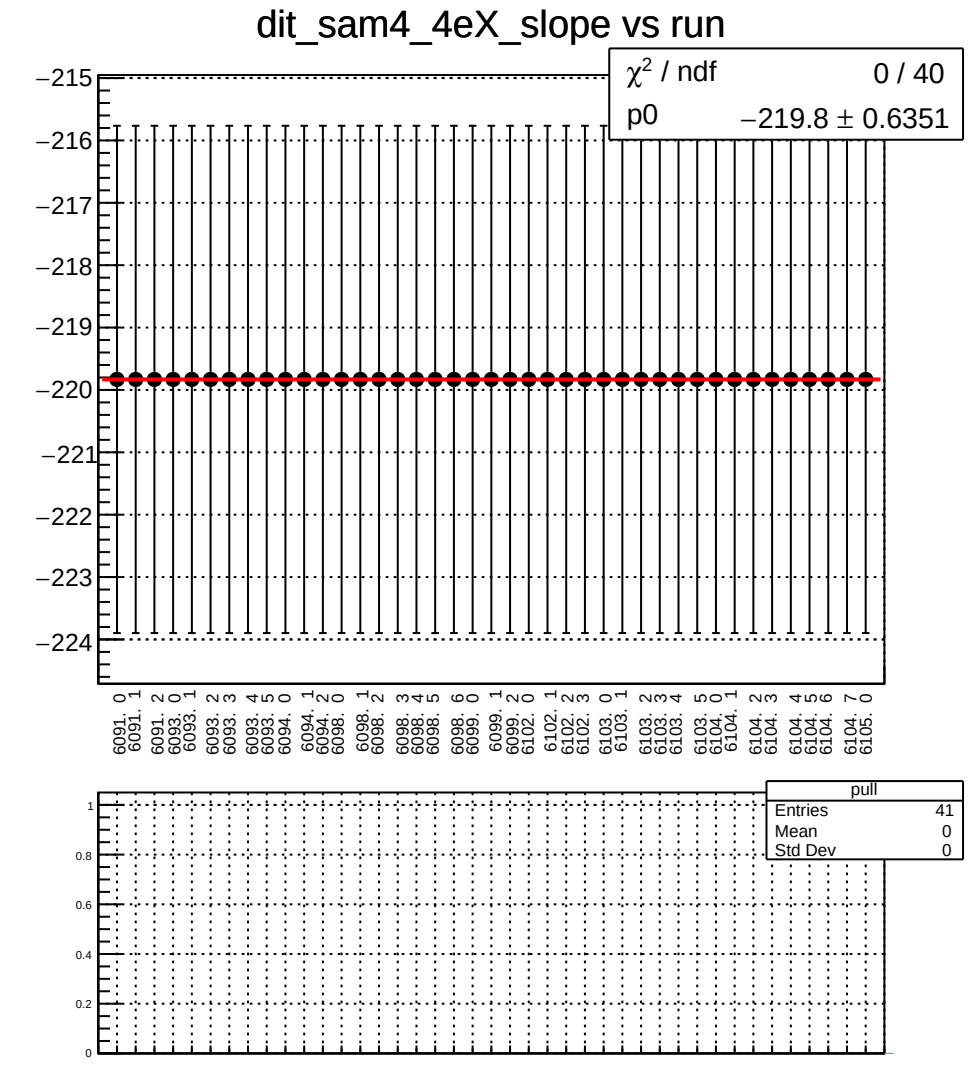
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 41
Mean 20.5
Std Dev 11.83

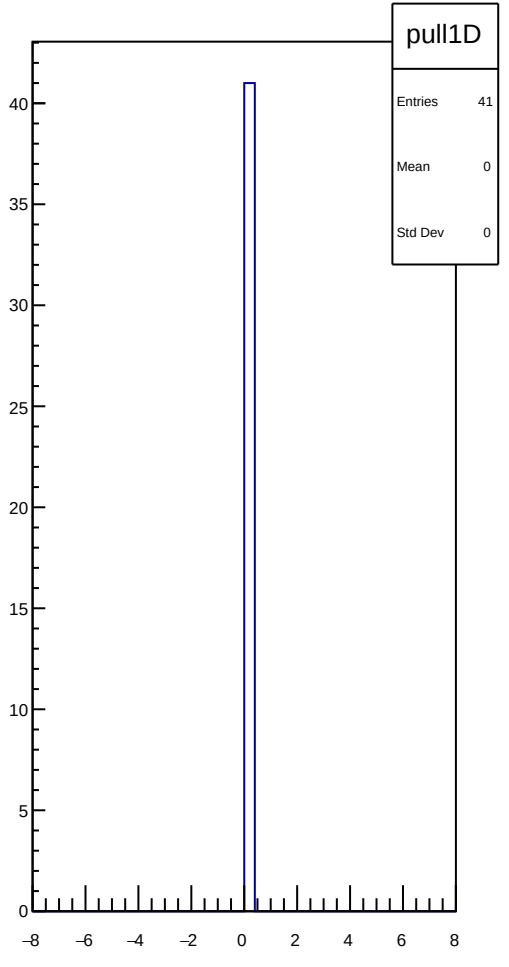

pull1D
Entries 41
Mean −3.377e−14
Std Dev1.405e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

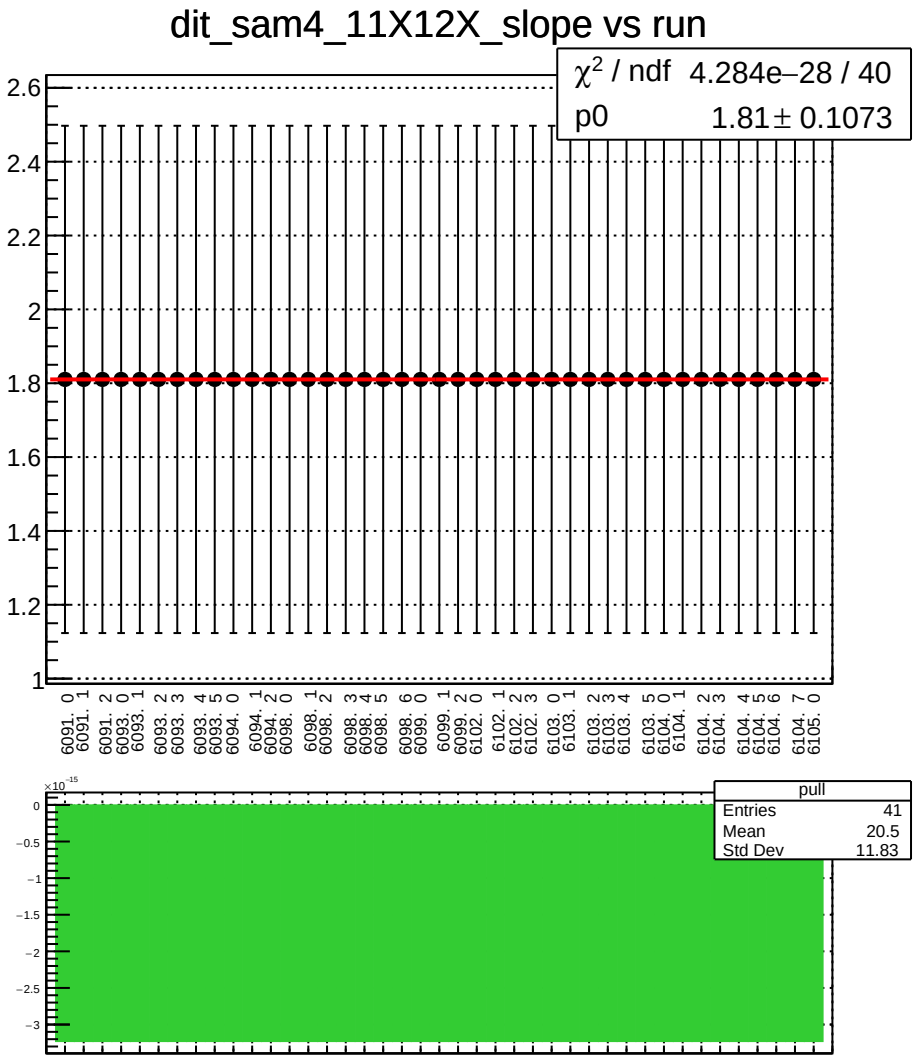

dit_sam3_4eY_slope vs run
χ² / ndf 1.665e−25 / 40
p0 33.5 ± 0.05224
33.9
33.8
33.7
33.6
33.5
33.4
33.3
33.2
33.1
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull
Entries 41
Mean 20.5
Std Dev 11.83

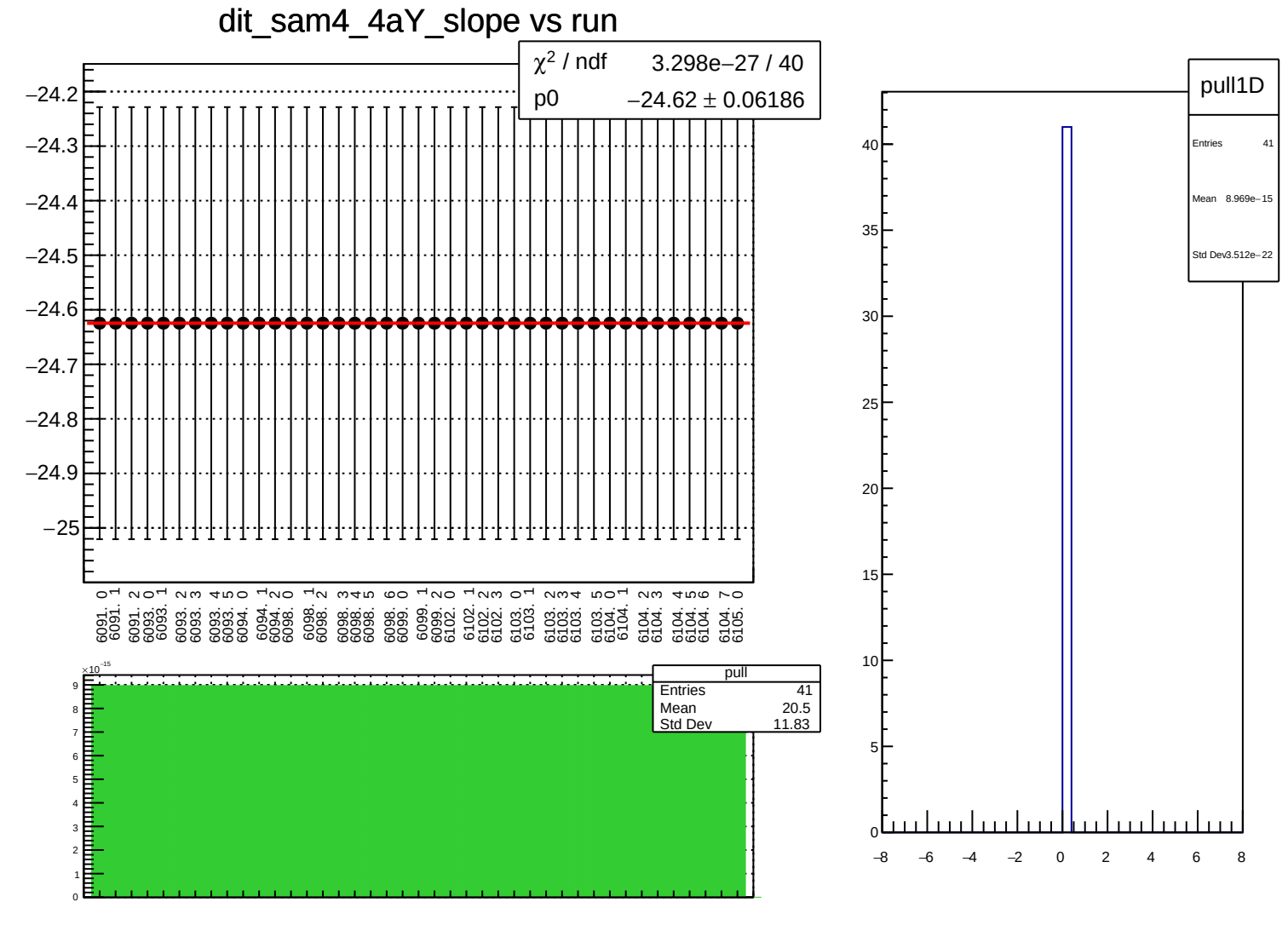

pull1D
Entries 41
Mean −6.373e−14
Std Dev2.241e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

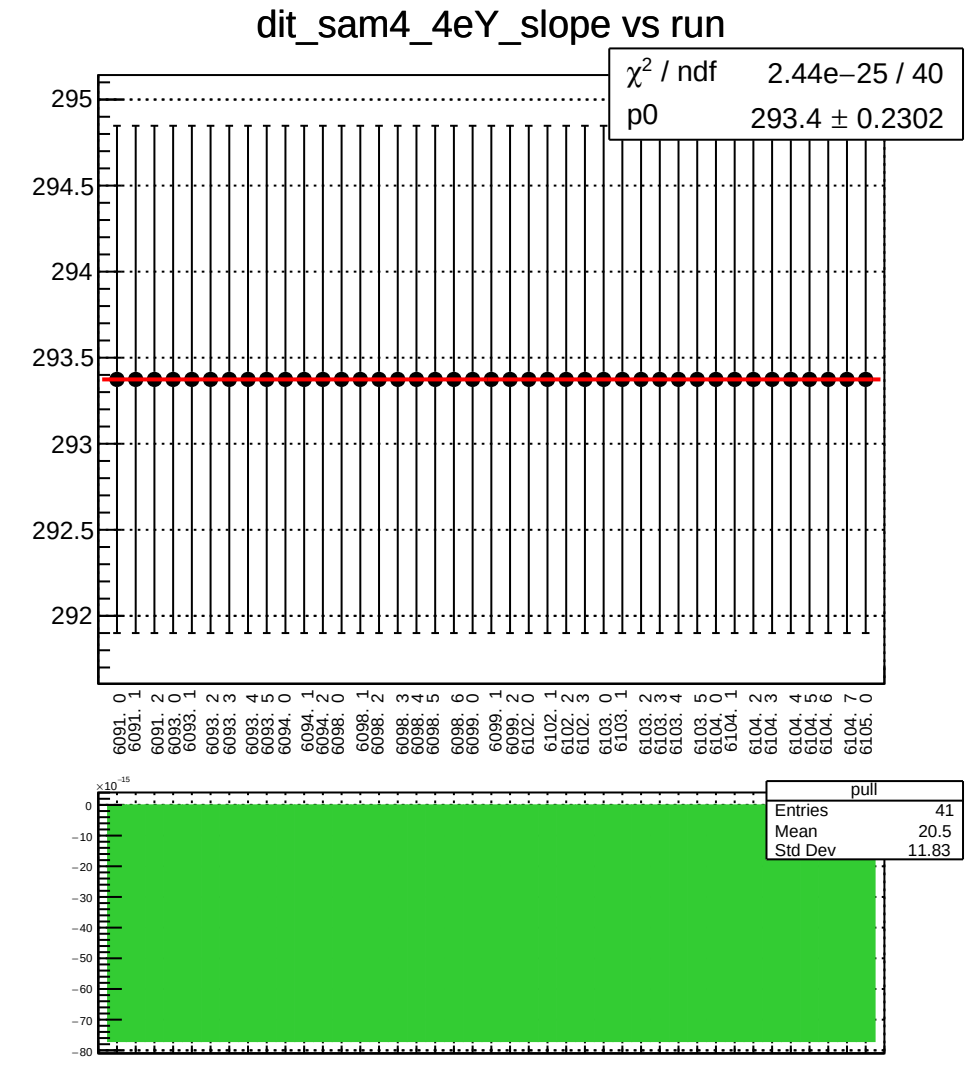

dit_sam4_4aX_slope vs run
χ² / ndf 5.677e−28 / 40
p0 9.978 ± 0.5964
14
13
12
11
10
9
8
7
6
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×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 −3.721e−15
Std Dev1.297e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

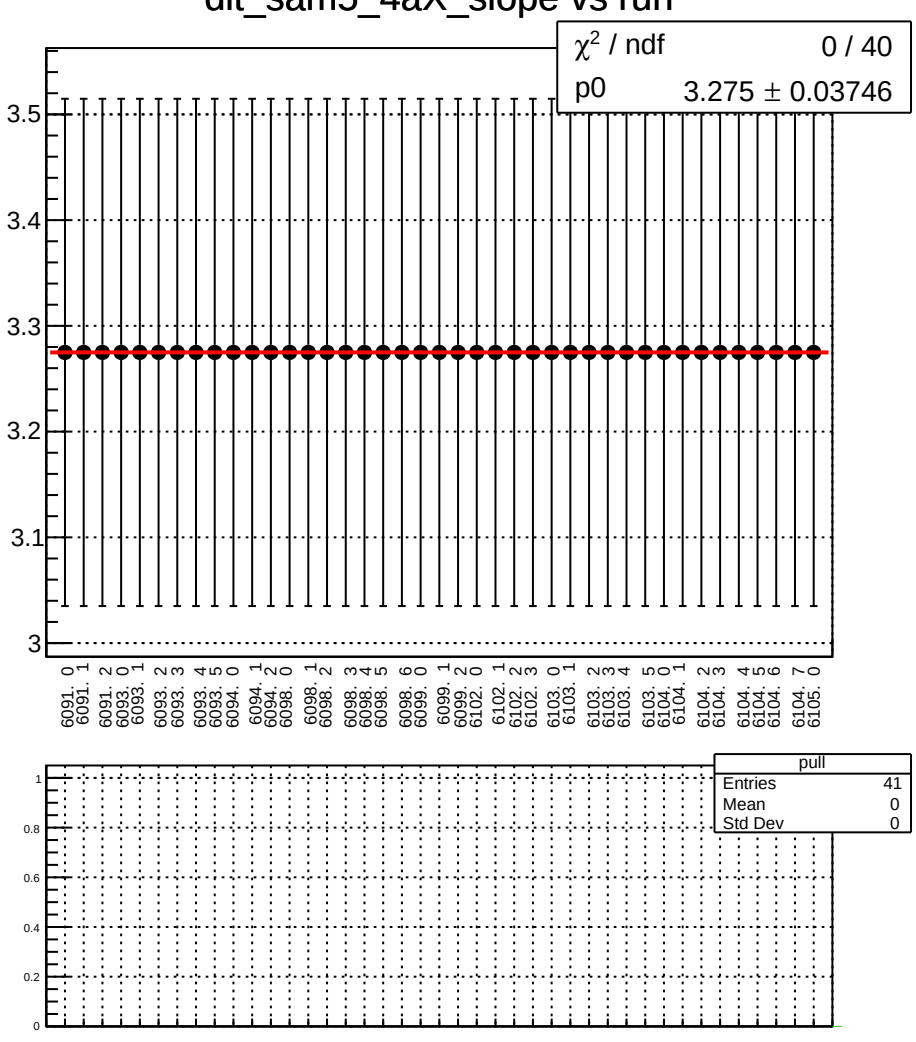

dit_sam4_4eX_slope vs run
χ^2 / ndf 0 / 40
p0 −219.8 ± 0.6351
pull
Entries 41
Mean 0
Std Dev 0

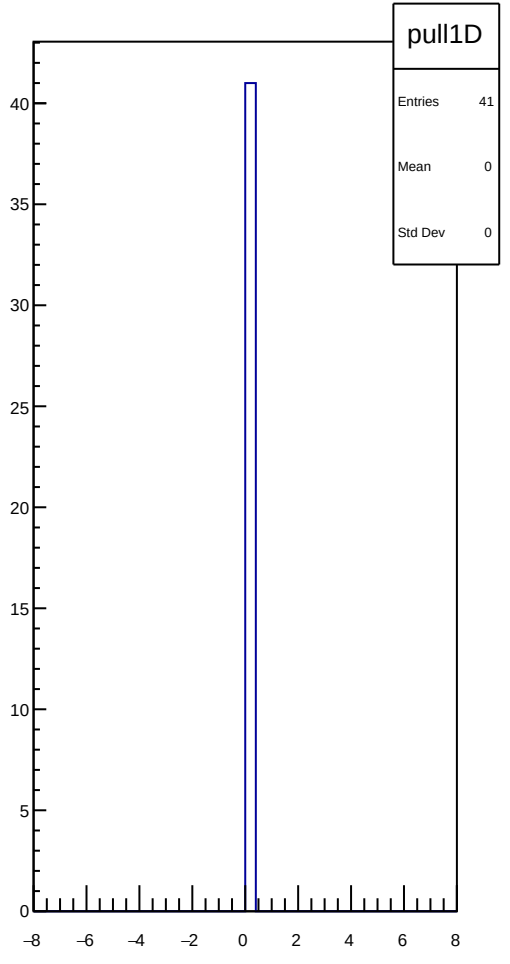

pull1D
Entries 41
Mean 0
Std Dev 0

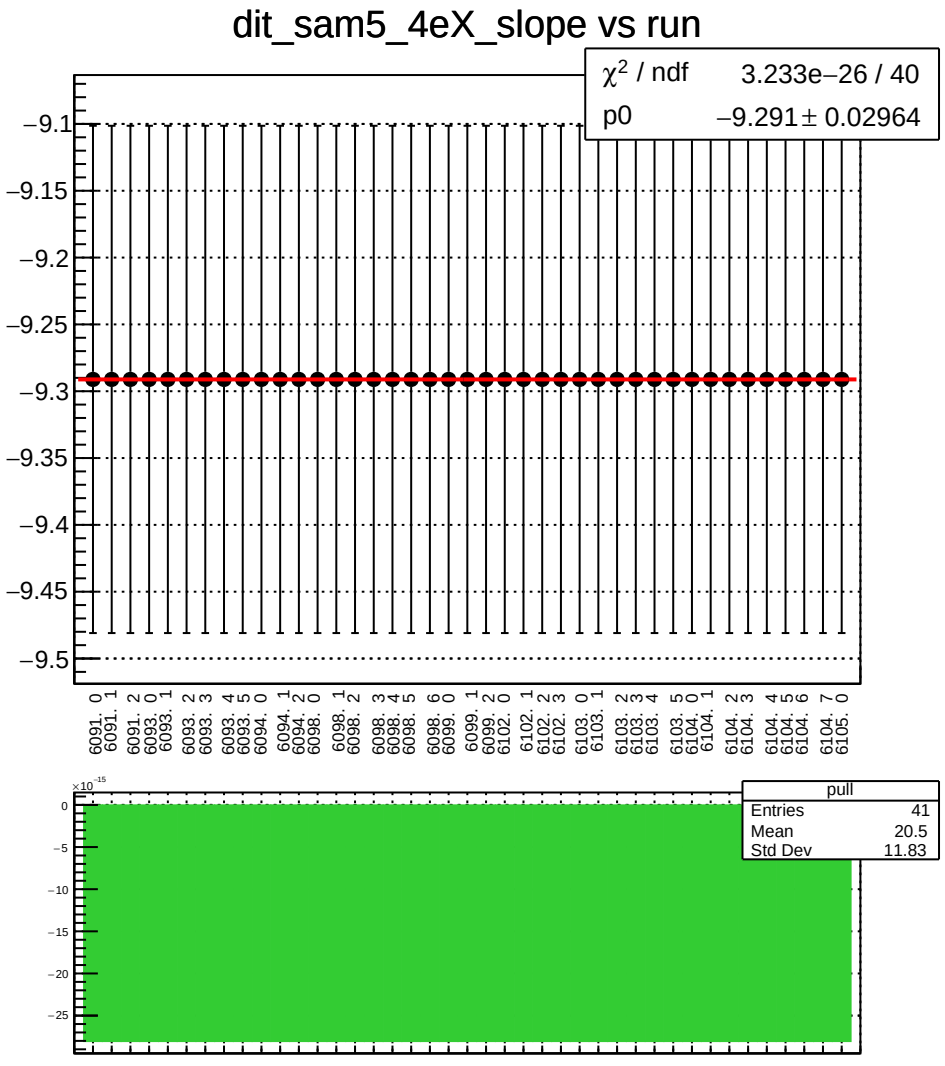

dit_sam4_11X12X_slope vs run
χ² / ndf 4.284e−28 / 40
p0 1.81 ± 0.1073
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −3.232e−15
Std Dev 1.45e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

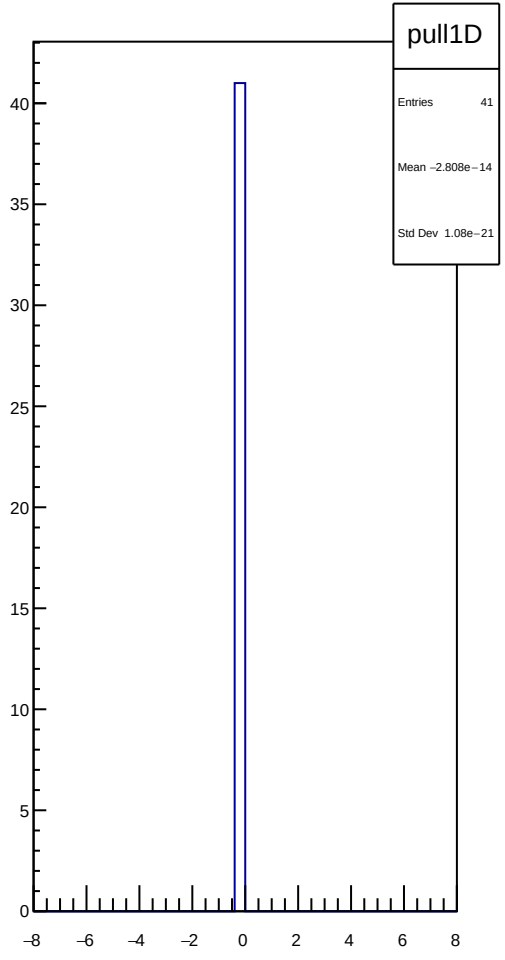

dit_sam4_4aY_slope vs run
χ² / ndf 3.298e−27 / 40
p0 −24.62 ± 0.06186
−24.2
−24.3
−24.4
−24.5
−24.6
−24.7
−24.8
−24.9
−25
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 8.969e−15
Std Dev3.512e−22

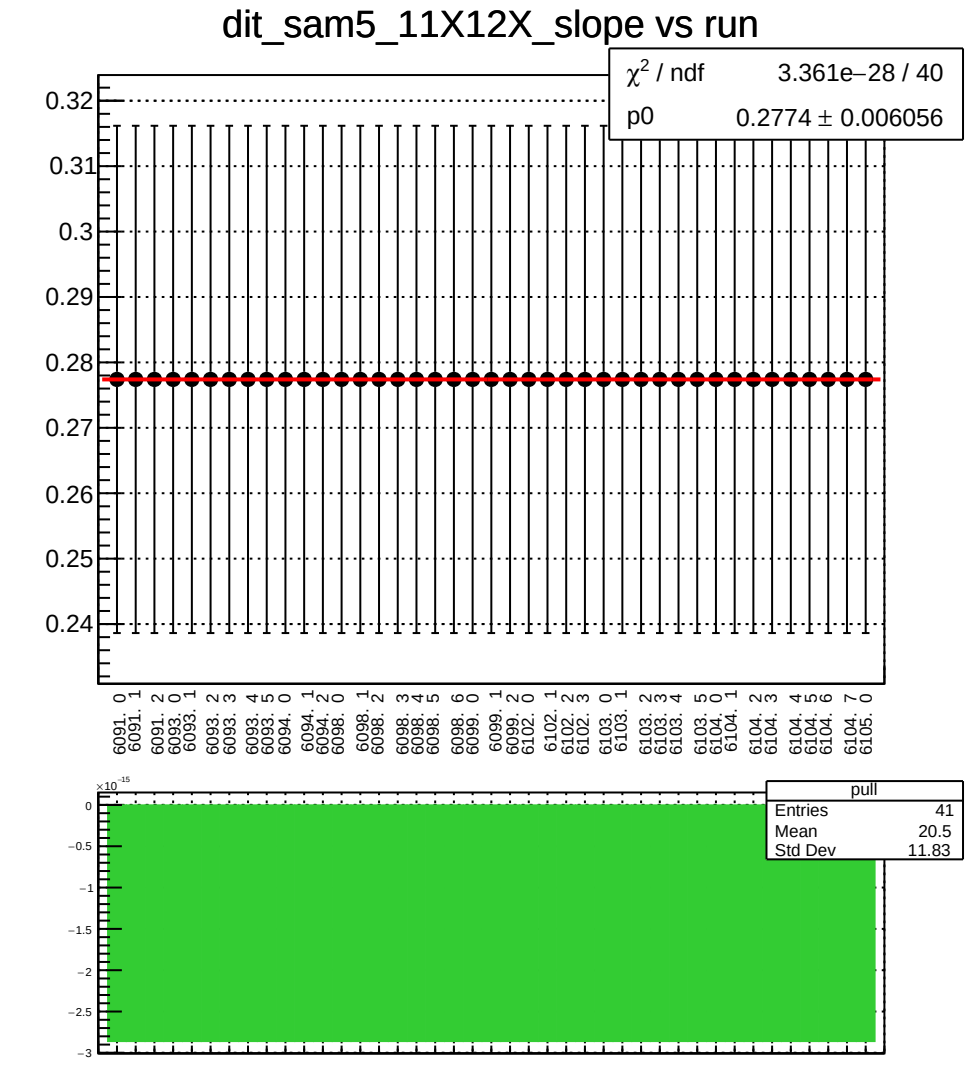

dit_sam4_4eY_slope vs run
χ² / ndf 2.44e−25 / 40
p0 293.4 ± 0.2302
295
294.5
294
293.5
293
292.5
292
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −7.714e−14
Std Dev3.054e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

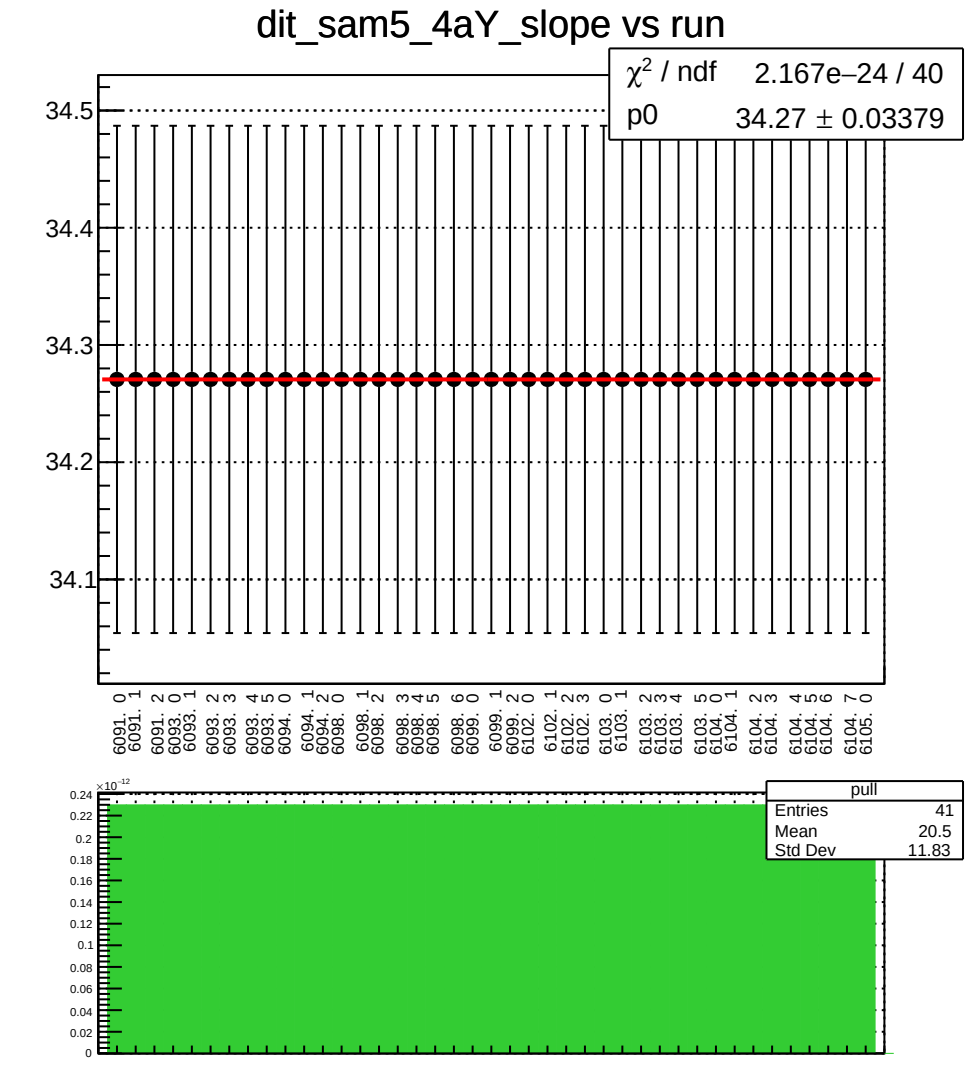

dit_sam5_4aX_slope vs run
χ² / ndf 0 / 40
p0 3.275 ± 0.03746
3.5
3.4
3.3
3.2
3.1
3
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

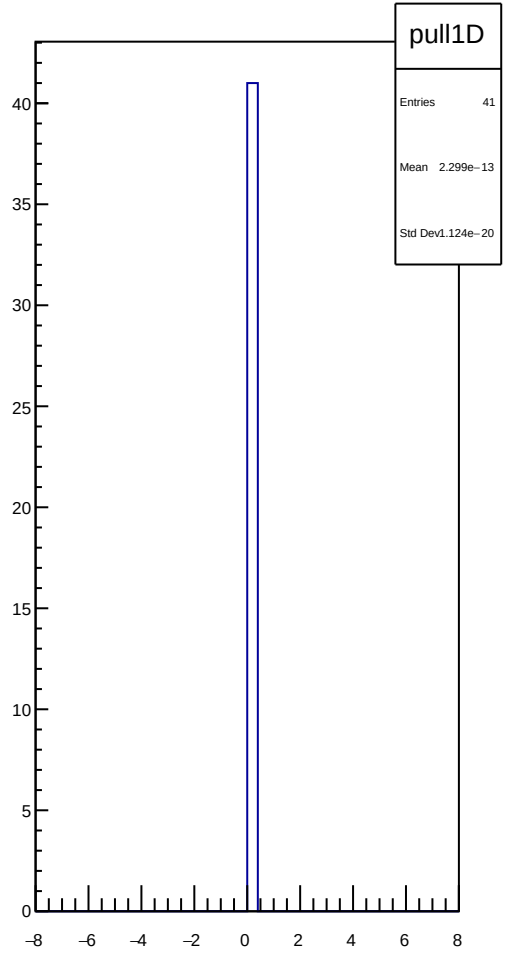

pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

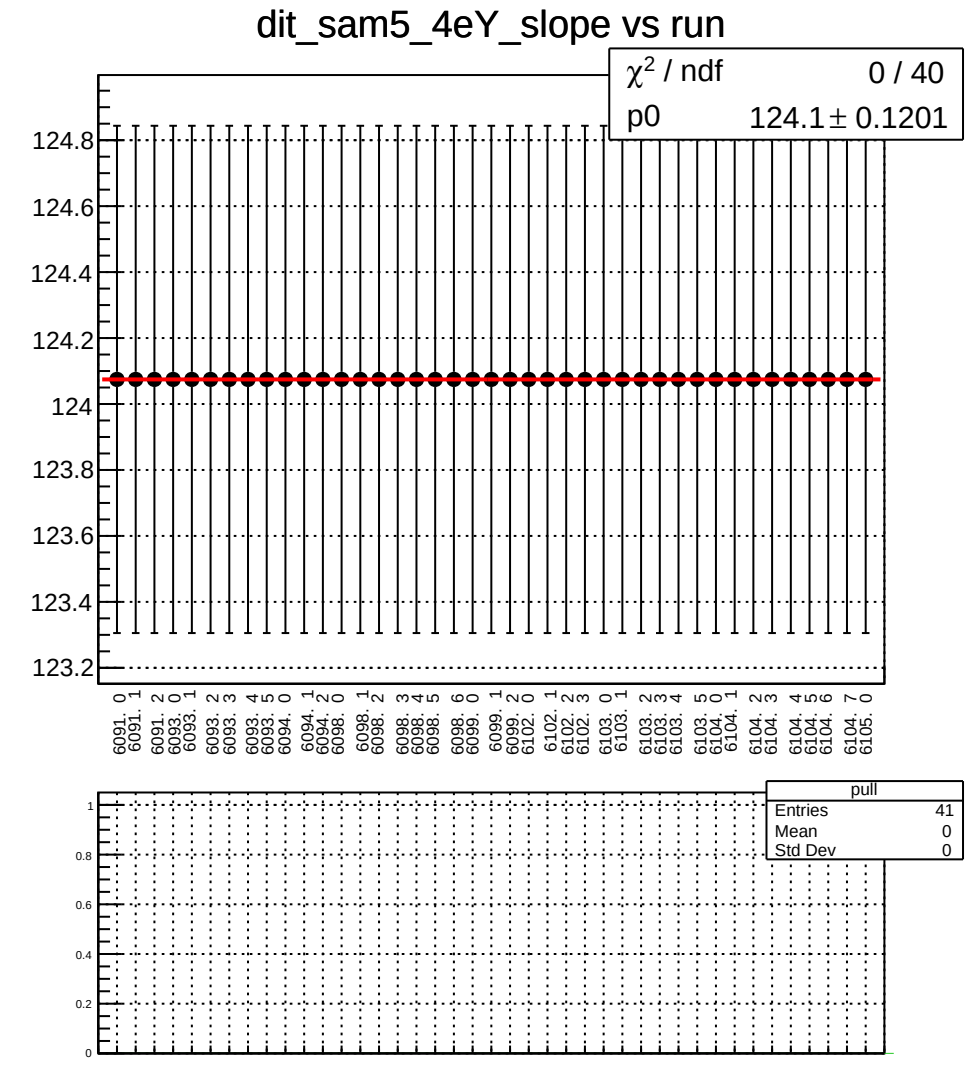

dit_sam5_4eX_slope vs run
χ² / ndf 3.233e−26 / 40
p0 −9.291 ± 0.02964
−9.1
−9.15
−9.2
−9.25
−9.3
−9.35
−9.4
−9.45
−9.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 41
Mean 20.5
Std Dev 11.83

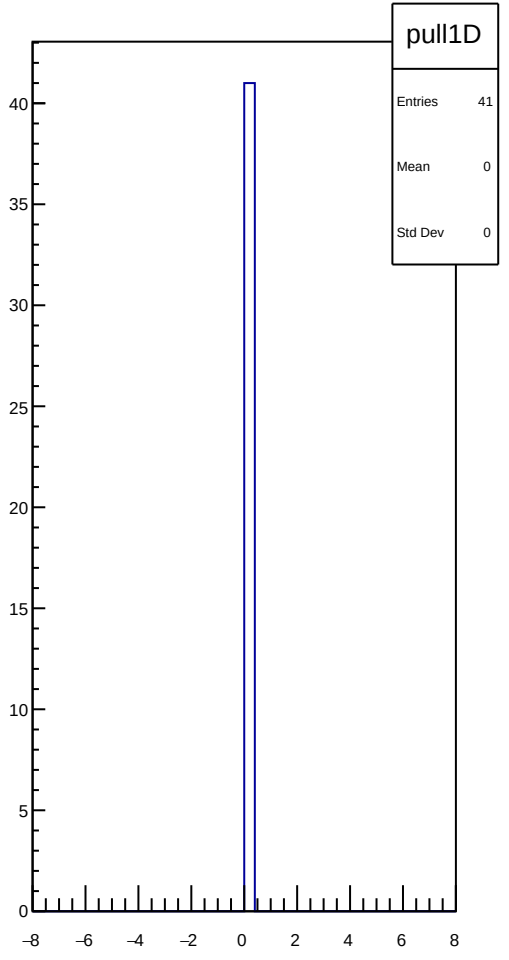

pull1D
Entries 41
Mean −2.808e−14
Std Dev 1.08e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

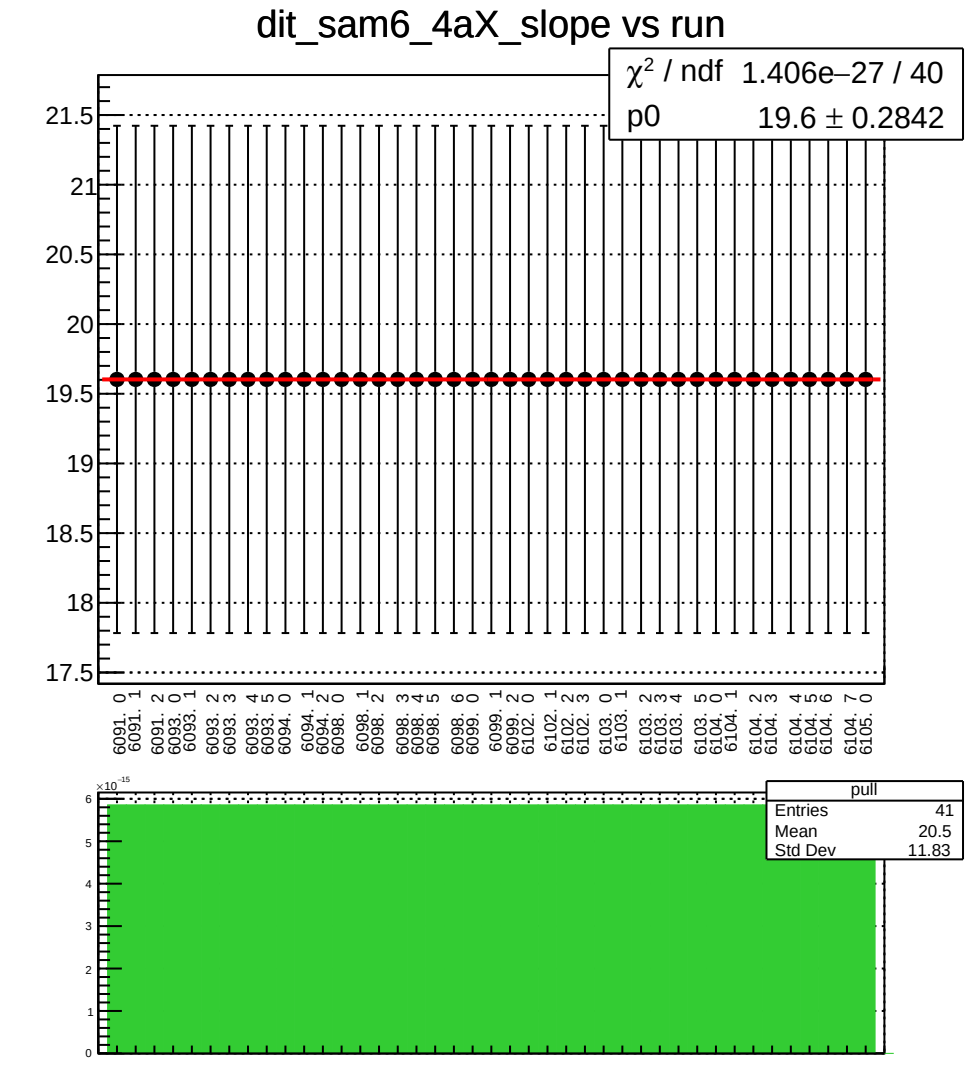

dit_sam5_11X12X_slope vs run
χ² / ndf 3.361e−28 / 40
p0 0.2774 ± 0.006056
0.32
0.31
0.3
0.29
0.28
0.27
0.26
0.25
0.24
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻�15
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −2.863e−15
Std Dev1.123e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

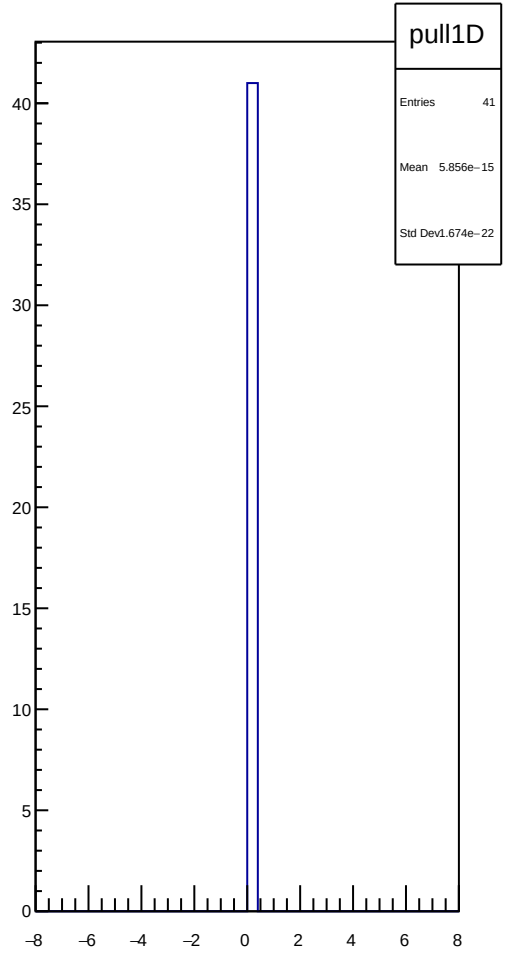

dit_sam5_4aY_slope vs run
χ² / ndf 2.167e−24 / 40
p0 34.27 ± 0.03379
34.5
34.4
34.3
34.2
34.1
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0.24
0.22
0.2
0.18
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

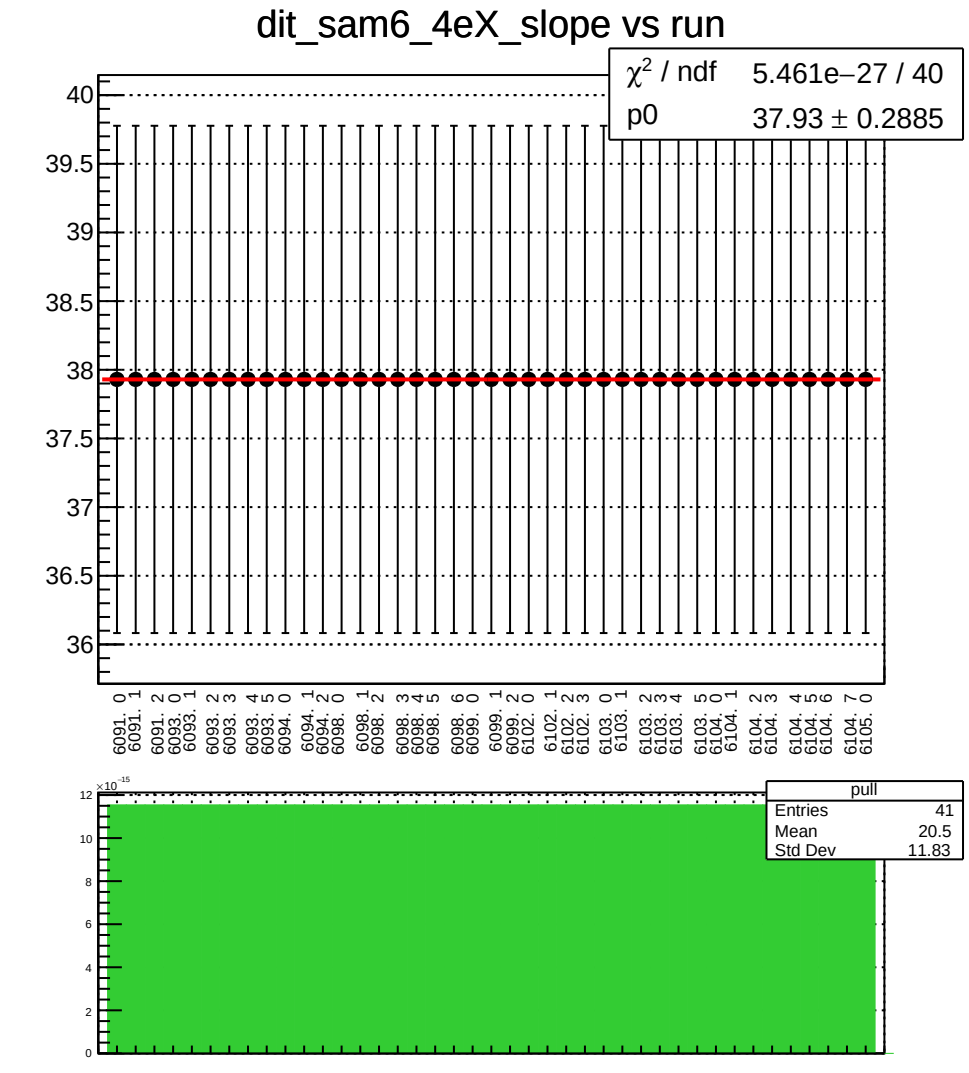

pull1D
Entries 41
Mean 2.299e−13
Std Dev1.124e−20
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

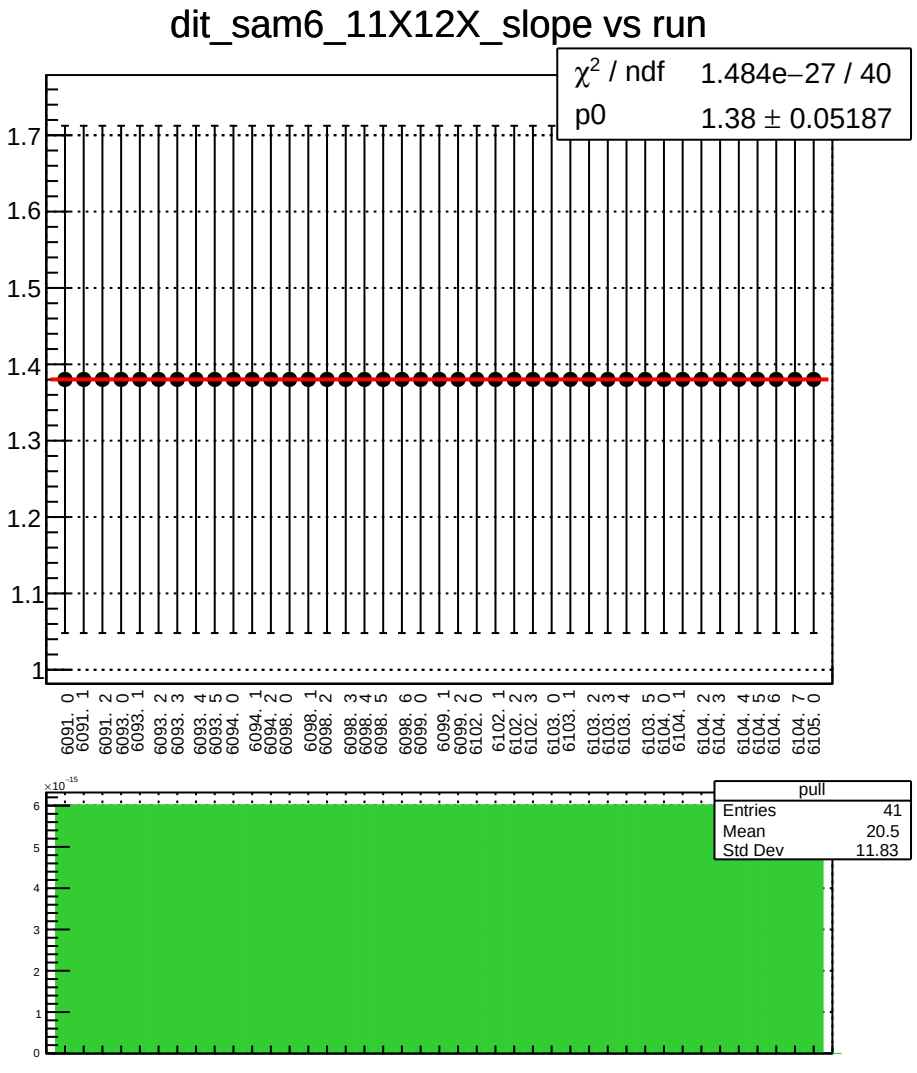

dit_sam5_4eY_slope vs run
χ^2 / ndf 0 / 40
p0 124.1 ± 0.1201
124.8
124.6
124.4
124.2
124
123.8
123.6
123.4
123.2
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

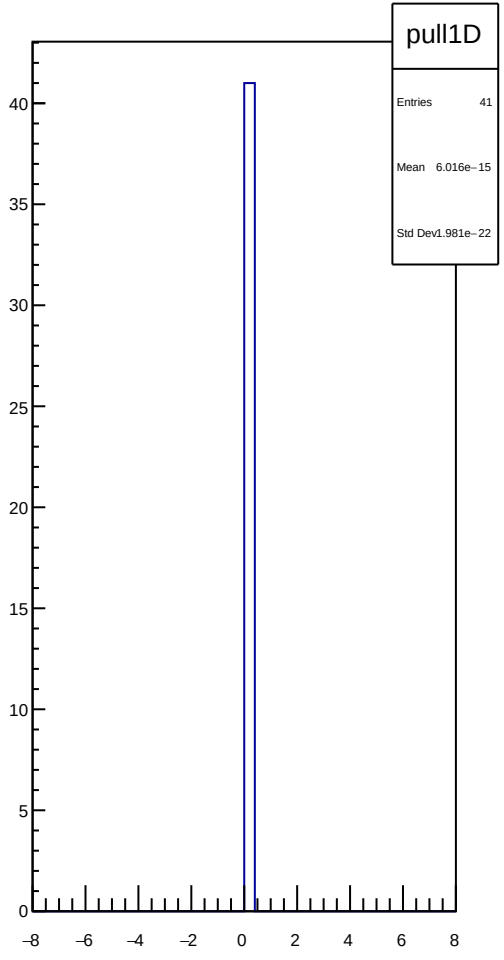

pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

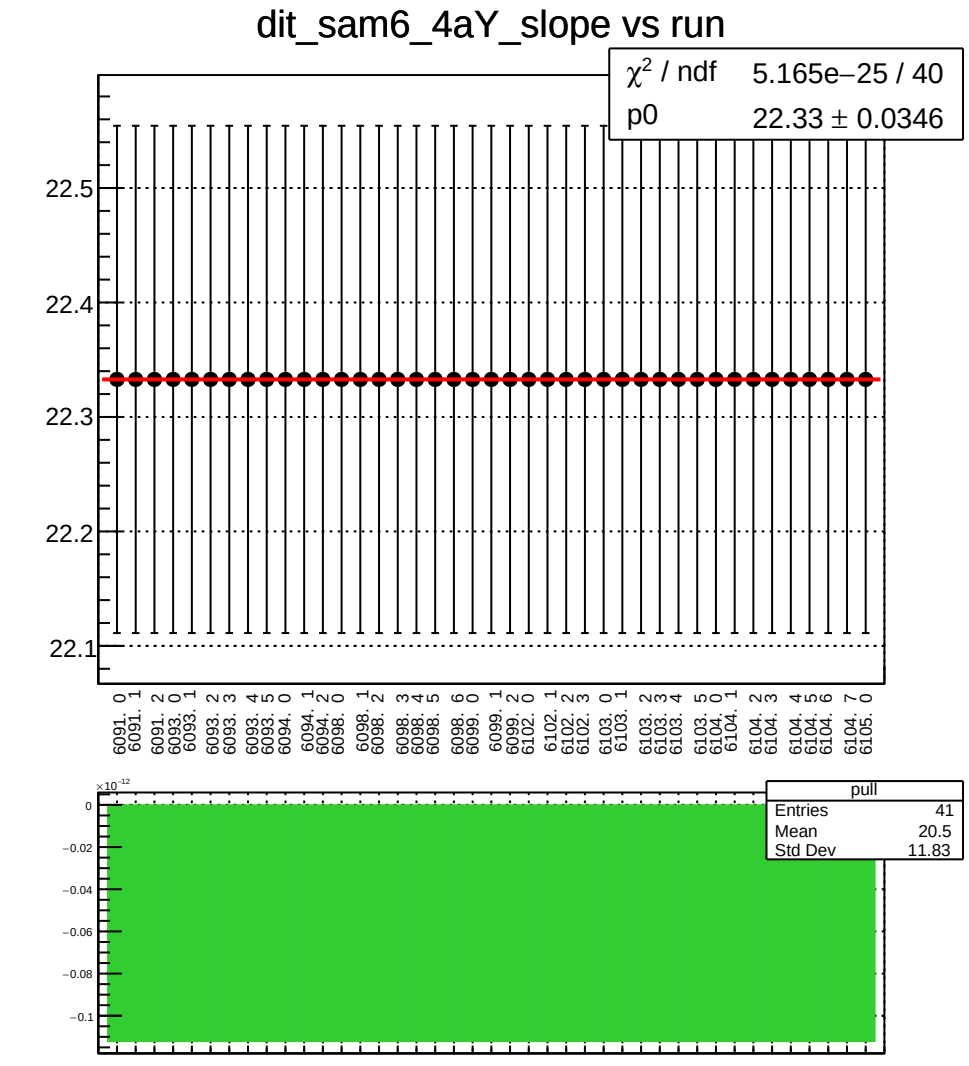

dit_sam6_4aX_slope vs run
χ² / ndf 1.406e−27 / 40
p0 19.6 ± 0.2842
21.5
21
20.5
20
19.5
19
18.5
18
17.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
6
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

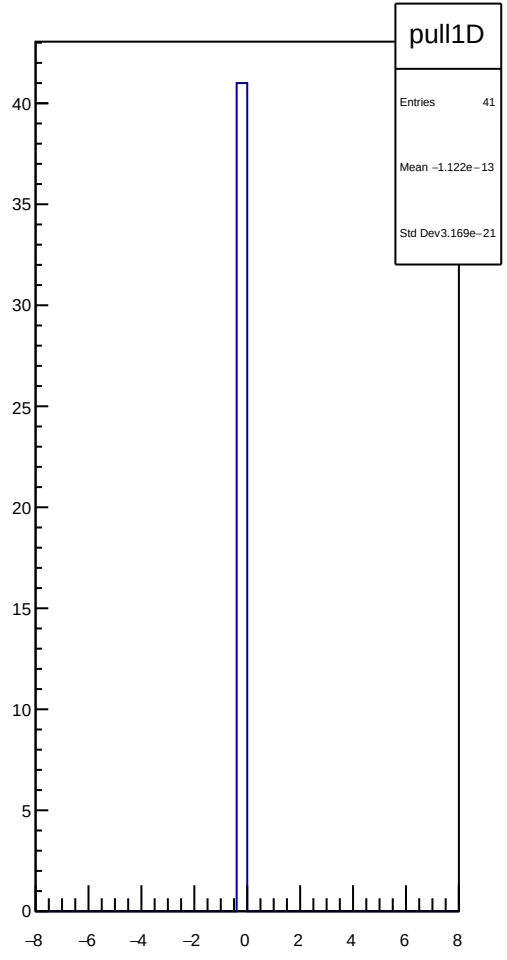

pull1D
Entries 41
Mean 5.856e−15
Std Dev1.674e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

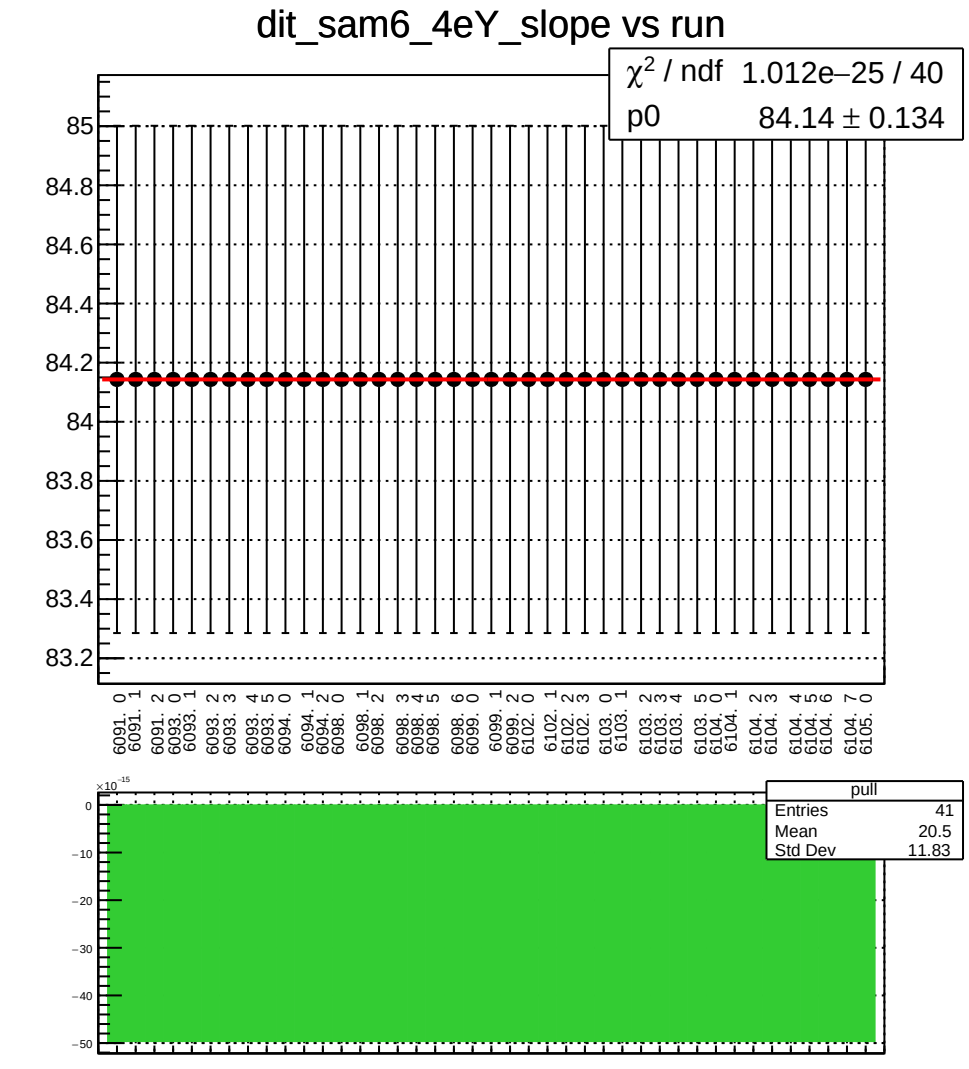

dit_sam6_4eX_slope vs run
χ² / ndf 5.461e−27 / 40
p0 37.93 ± 0.2885
40
39.5
39
38.5
38
37.5
37
36.5
36
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
12
10
8
6
4
2
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 1.154e−14
Std Dev 2.593e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

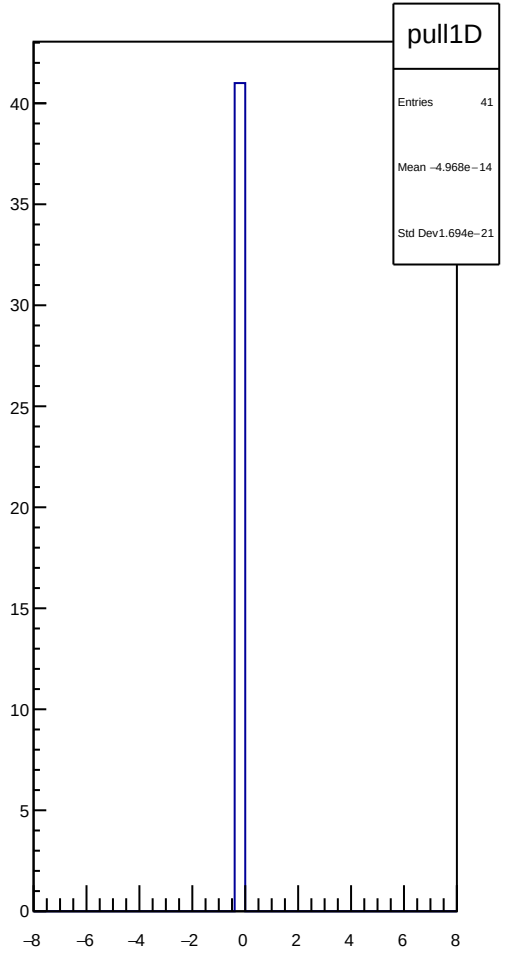

dit_sam6_11X12X_slope vs run
χ^2 / ndf 1.484e−27 / 40
p0 1.38 ± 0.05187
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10^-15
6
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83

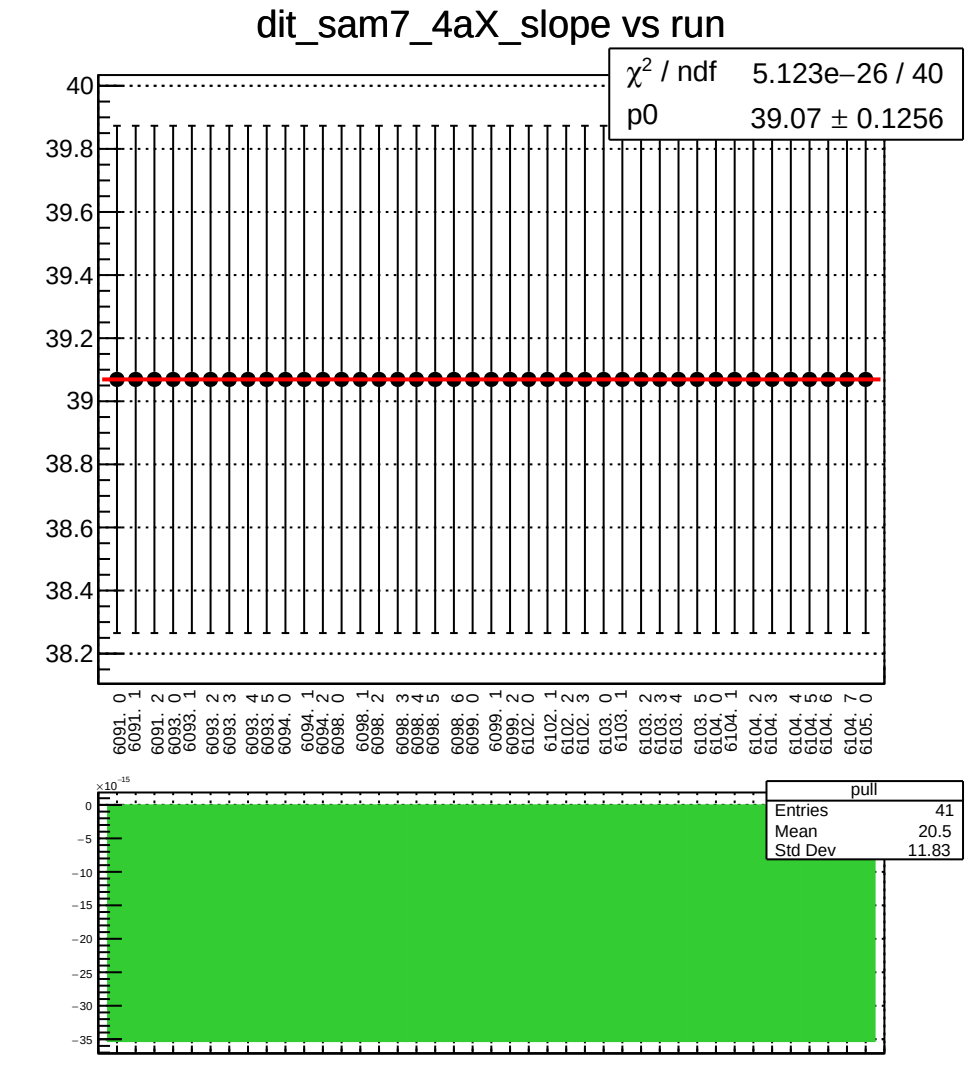

pull1D
Entries 41
Mean 6.016e−15
Std Dev1.981e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

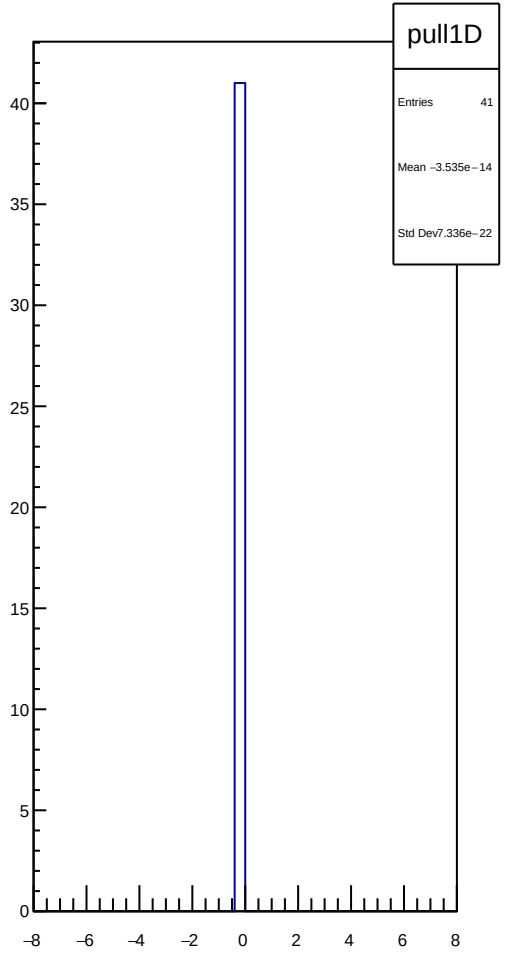

dit_sam6_4aY_slope vs run
χ² / ndf 5.165e−25 / 40
p0 22.33 ± 0.0346
22.5
22.4
22.3
22.2
22.1
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1

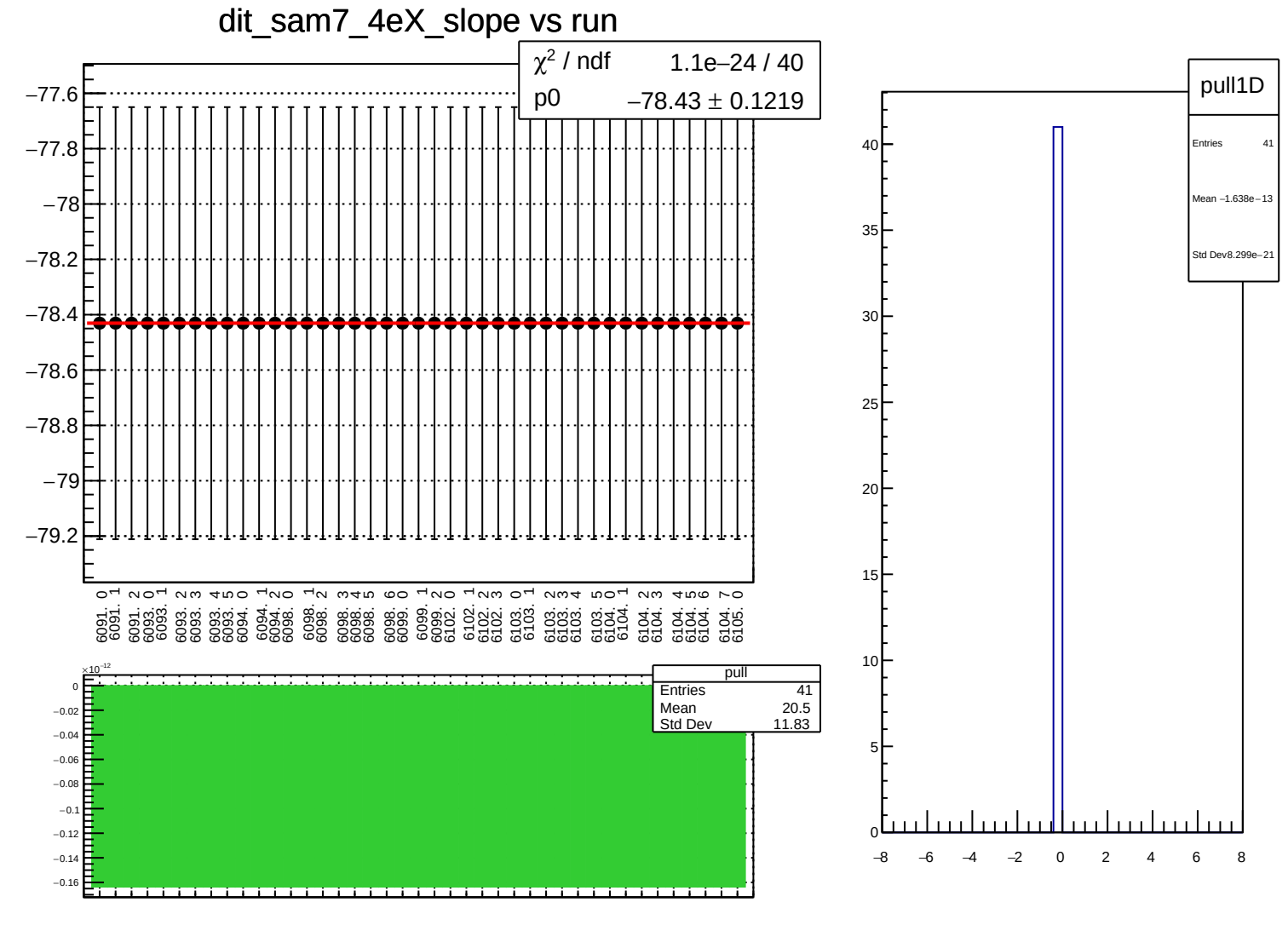

pull1D
Entries 41
Mean −1.122e−13
Std Dev3.169e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

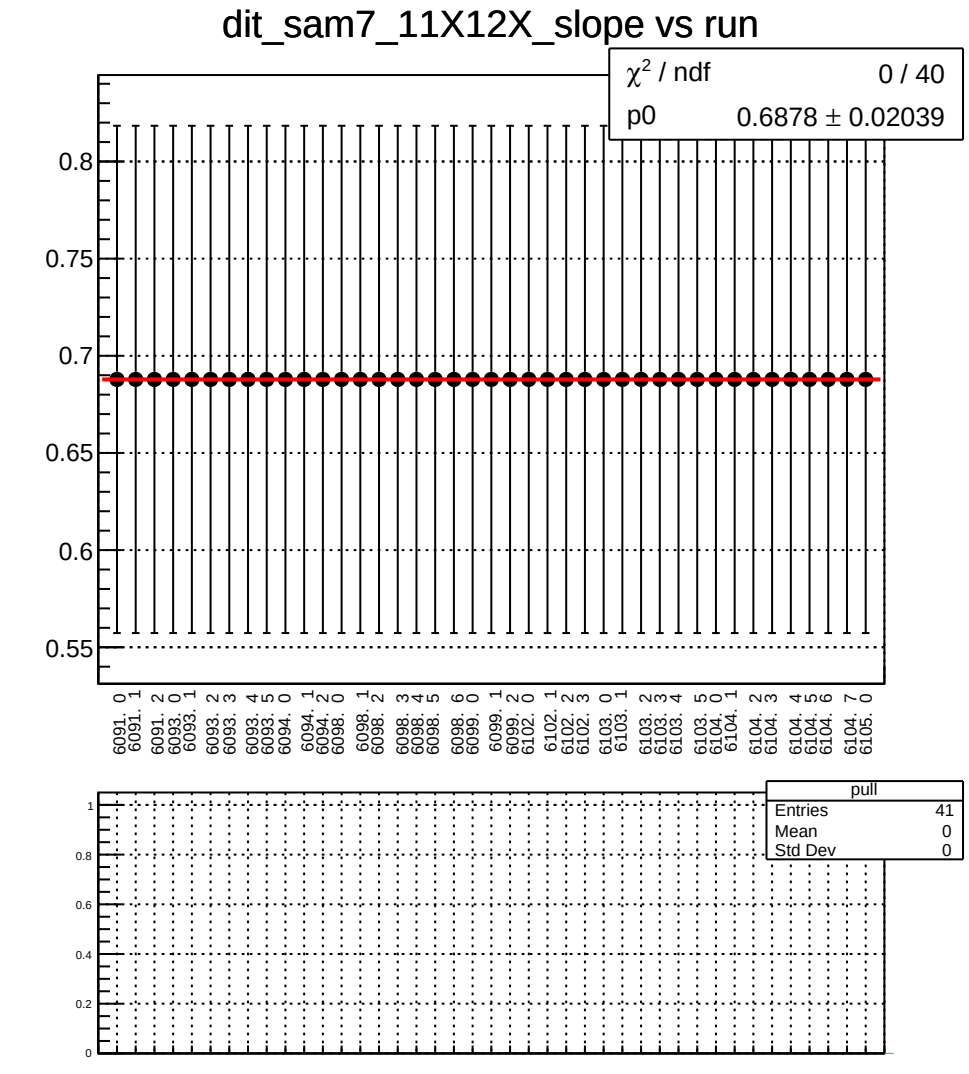

dit_sam6_4eY_slope vs run
χ² / ndf 1.012e−25 / 40
p0 84.14 ± 0.134
85
84.8
84.6
84.4
84.2
84
83.8
83.6
83.4
83.2
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 41
Mean 20.5
Std Dev 11.83

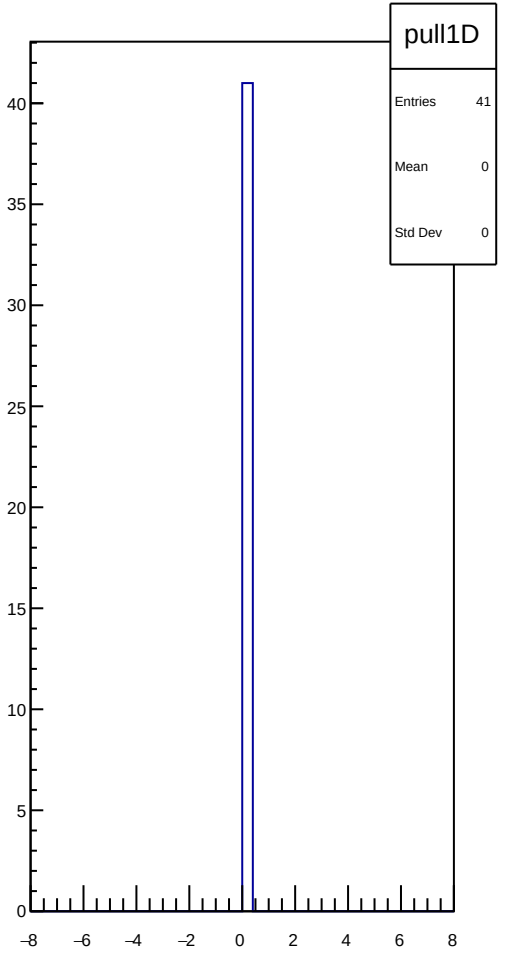

pull1D
Entries 41
Mean −4.968e−14
Std Dev1.694e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

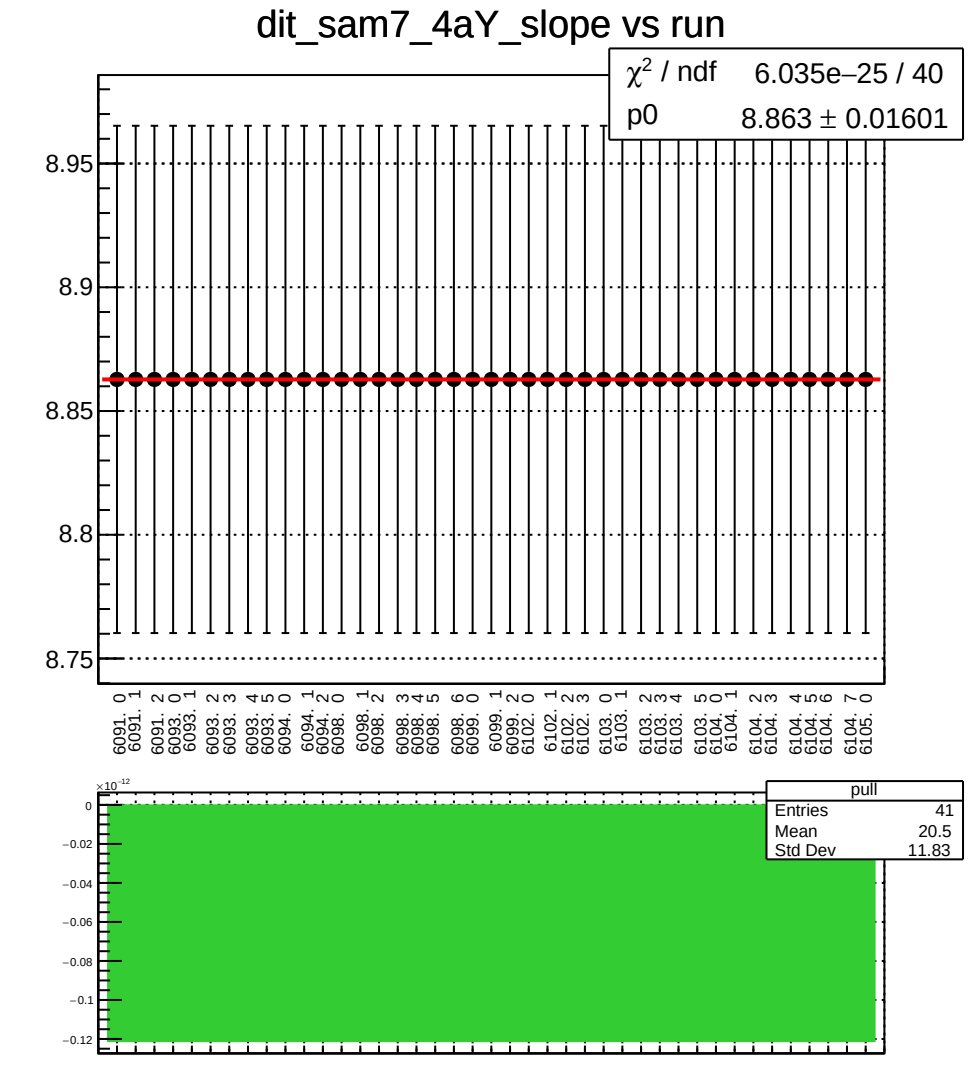

dit_sam7_4aX_slope vs run
χ² / ndf 5.123e−26 / 40
p0 39.07 ± 0.1256
40
39.8
39.6
39.4
39.2
39
38.8
38.6
38.4
38.2
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 41
Mean 20.5
Std Dev 11.83

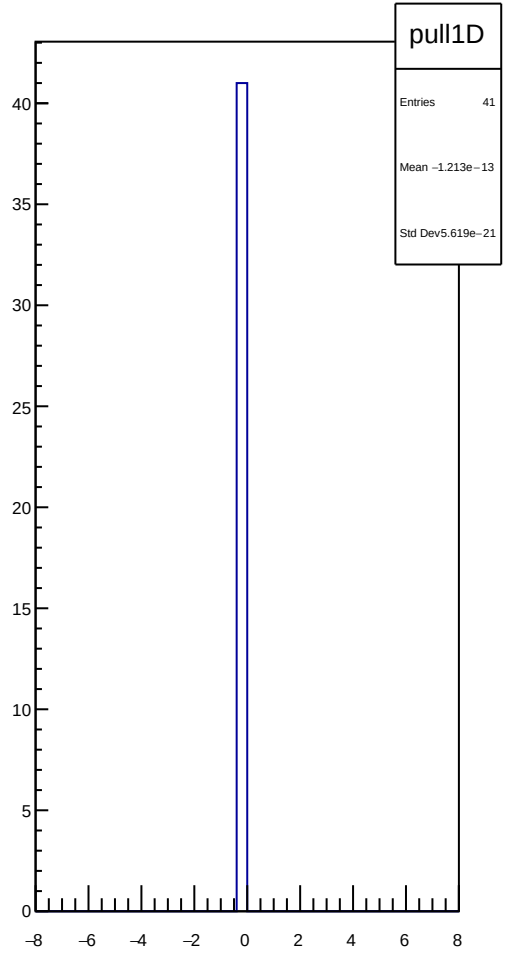

pull1D
Entries 41
Mean −3.535e−14
Std Dev7.336e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

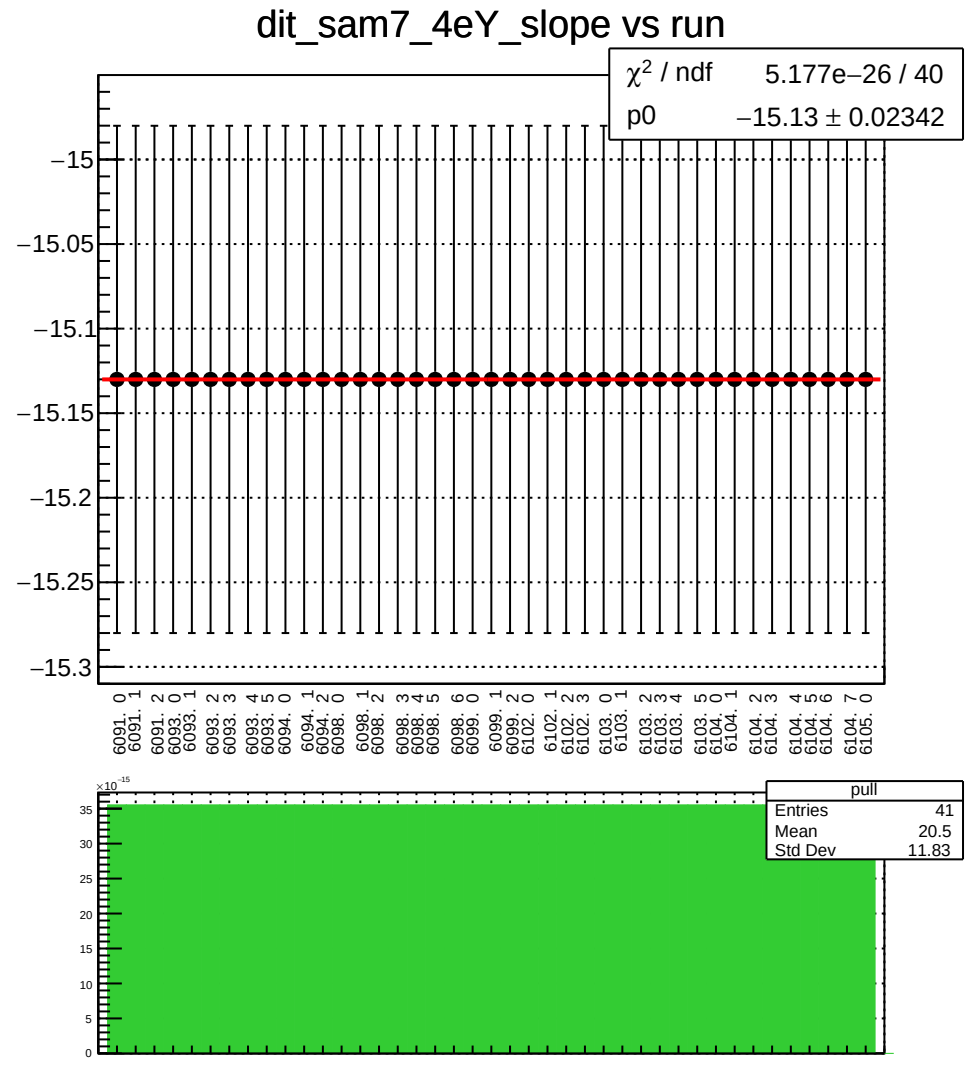

dit_sam7_4eX_slope vs run
χ² / ndf 1.1e−24 / 40
p0 −78.43 ± 0.1219
−77.6
−77.8
−78
−78.2
−78.4
−78.6
−78.8
−79
−79.2
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −1.638e−13
Std Dev8.299e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

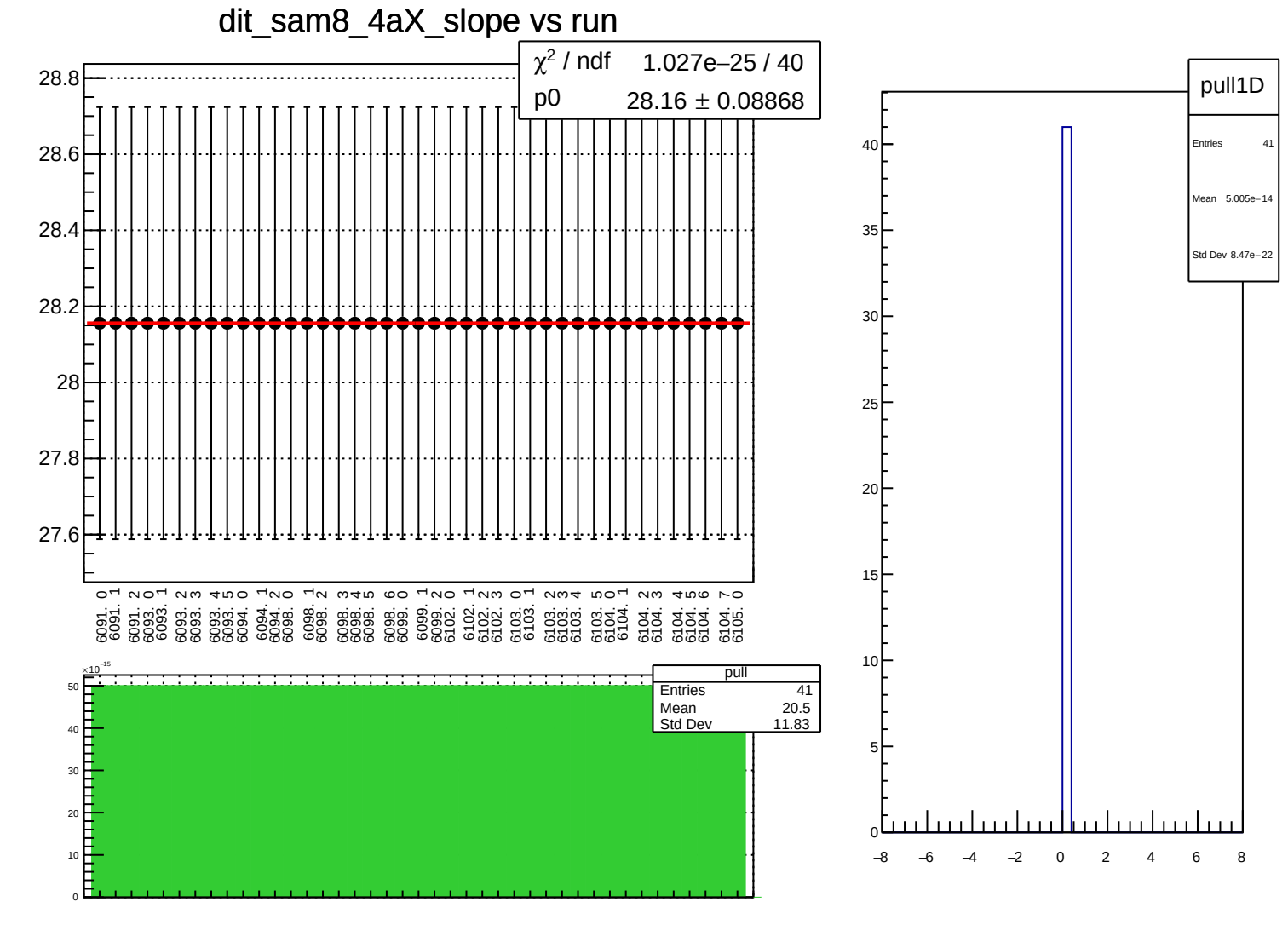

dit_sam7_11X12X_slope vs run
χ² / ndf 0 / 40
p0 0.6878 ± 0.02039
0.8
0.75
0.7
0.65
0.6
0.55
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

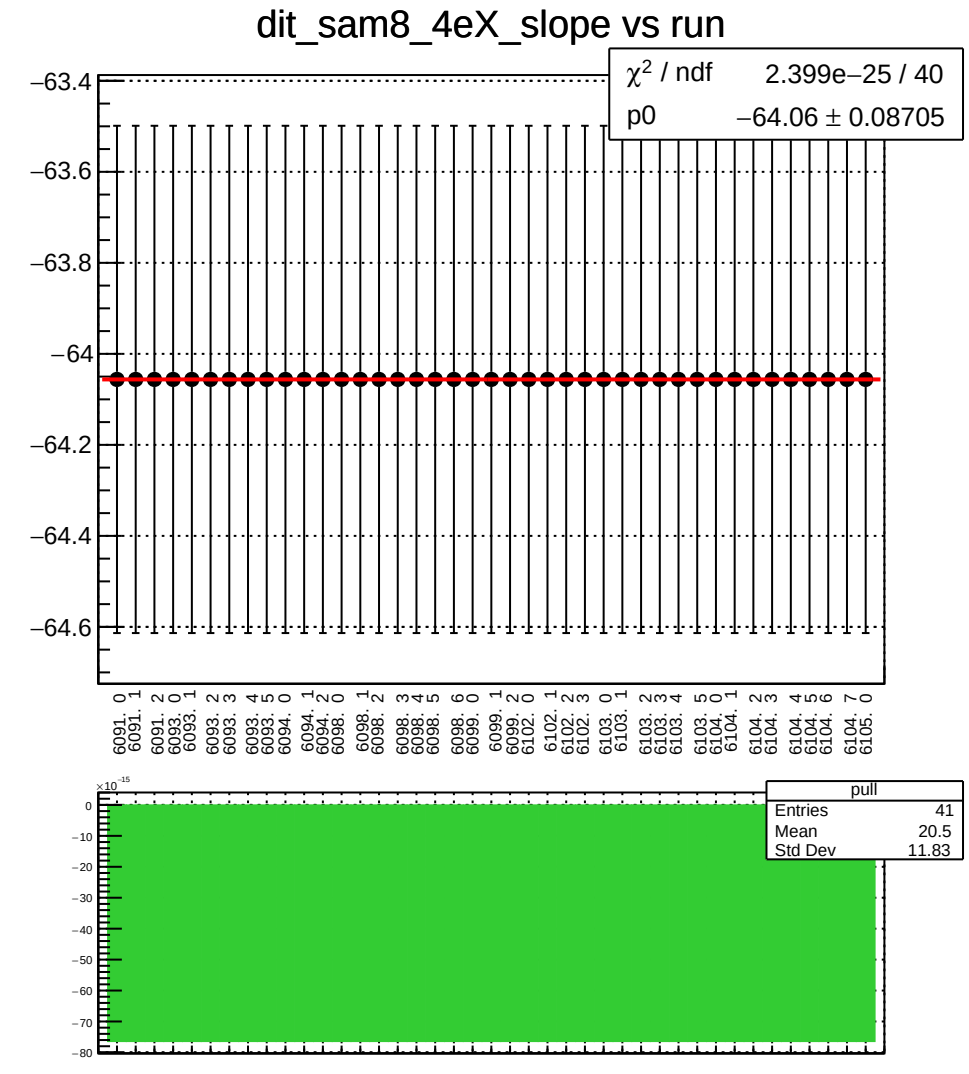

pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

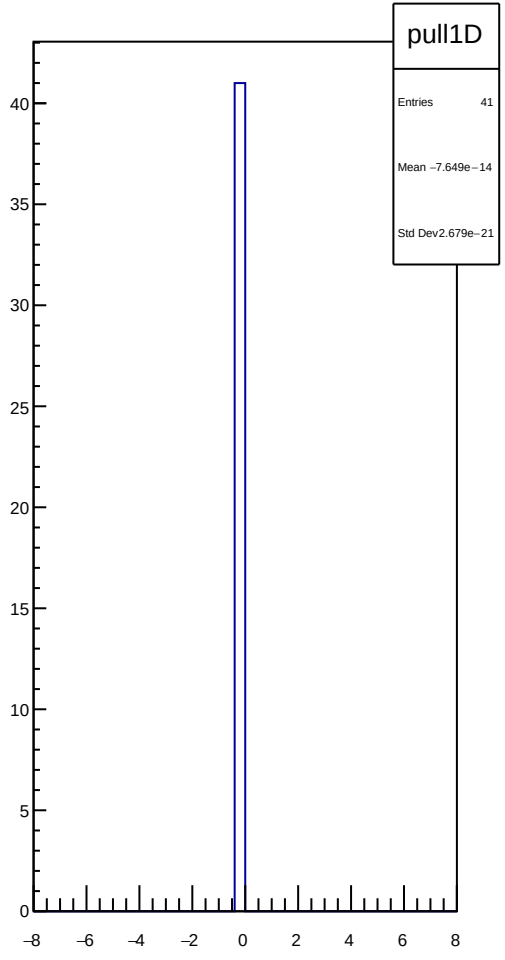

dit_sam7_4aY_slope vs run
χ² / ndf 6.035e−25 / 40
p0 8.863 ± 0.01601
8.95
8.9
8.85
8.8
8.75
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 41
Mean 20.5
Std Dev 11.83

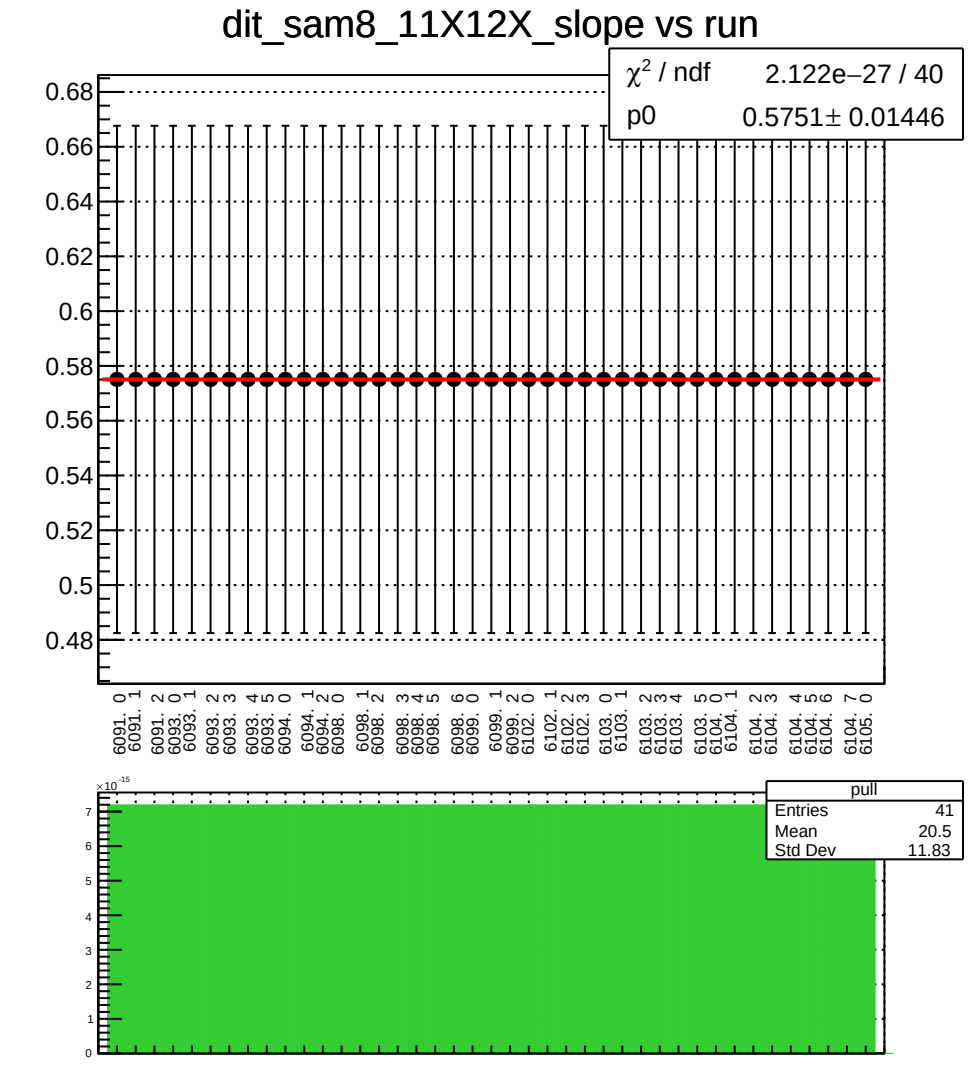

pull1D
Entries 41
Mean −1.213e−13
Std Dev5.619e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

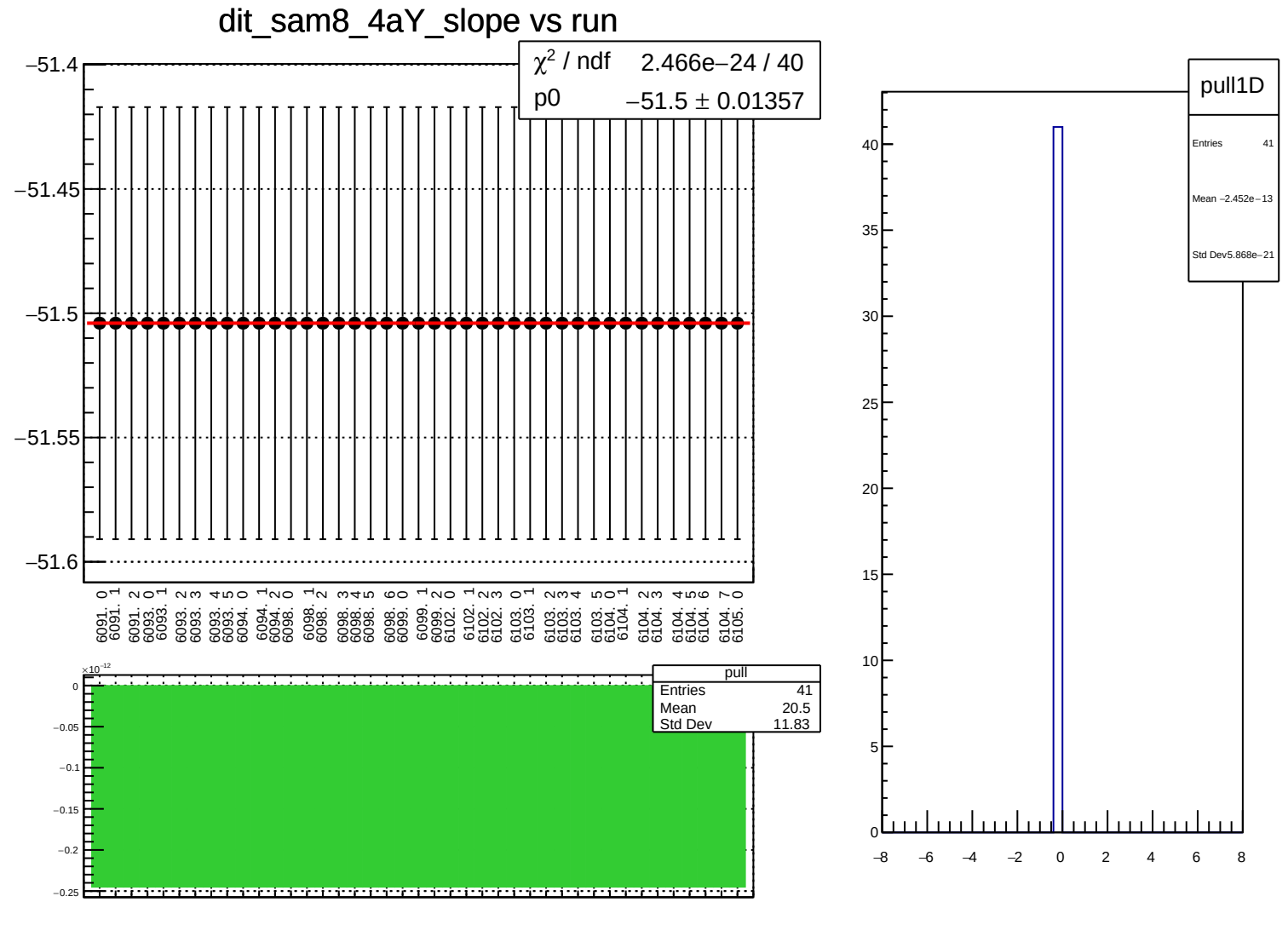

dit_sam7_4eY_slope vs run
χ² / ndf 5.177e−26 / 40
p0 −15.13 ± 0.02342
−15
−15.05
−15.1
−15.15
−15.2
−15.25
−15.3
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
35
30
25
20
15
10
5
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 3.553e−14
Std Dev 9.47e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

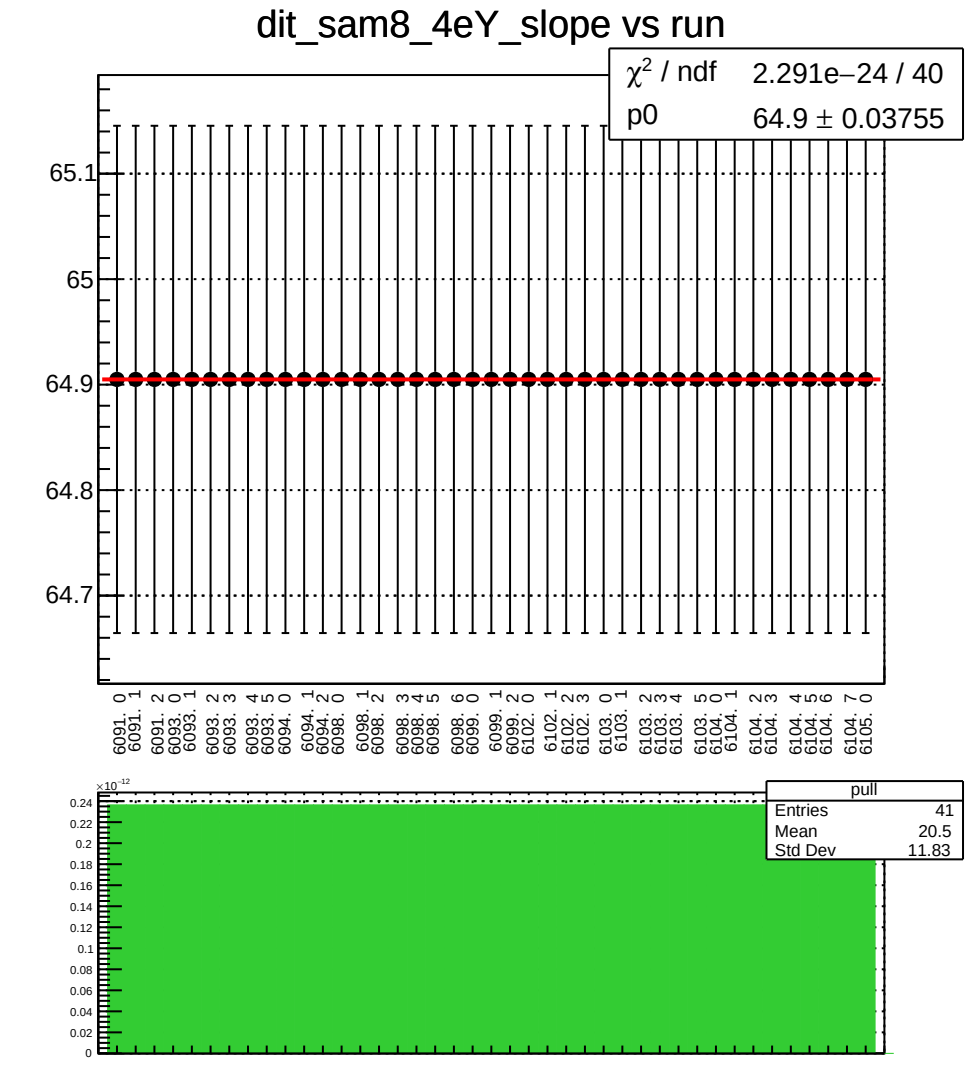

dit_sam8_4aX_slope vs run
χ² / ndf 1.027e−25 / 40
p0 28.16 ± 0.08868
28.8
28.6
28.4
28.2
28
27.8
27.6
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 5.005e−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_sam8_4eX_slope vs run
χ² / ndf 2.399e−25 / 40
p0 −64.06 ± 0.08705
−63.4
−63.6
−63.8
−64
−64.2
−64.4
−64.6
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean −7.649e−14
Std Dev2.679e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_11X12X_slope vs run
χ² / ndf 2.122e−27 / 40
p0 0.5751± 0.01446
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹⁵
7
6
5
4
3
2
1
0
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean 7.195e−15
Std Dev2.593e−22
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 2.466e−24 / 40
p0 −51.5 ± 0.01357
−51.4
−51.45
−51.5
−51.55
−51.6
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 41
Mean 20.5
Std Dev 11.83
pull1D
Entries 41
Mean −2.452e−13
Std Dev5.868e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4eY_slope vs run
χ² / ndf 2.291e−24 / 40
p0 64.9 ± 0.03755
65.1
65
64.9
64.8
64.7
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
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6094. 2
6098. 0
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6098. 4
6098. 5
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6099. 0
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6102. 0
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6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
×10⁻¹²
0.24
0.22
0.2
0.18
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0.02
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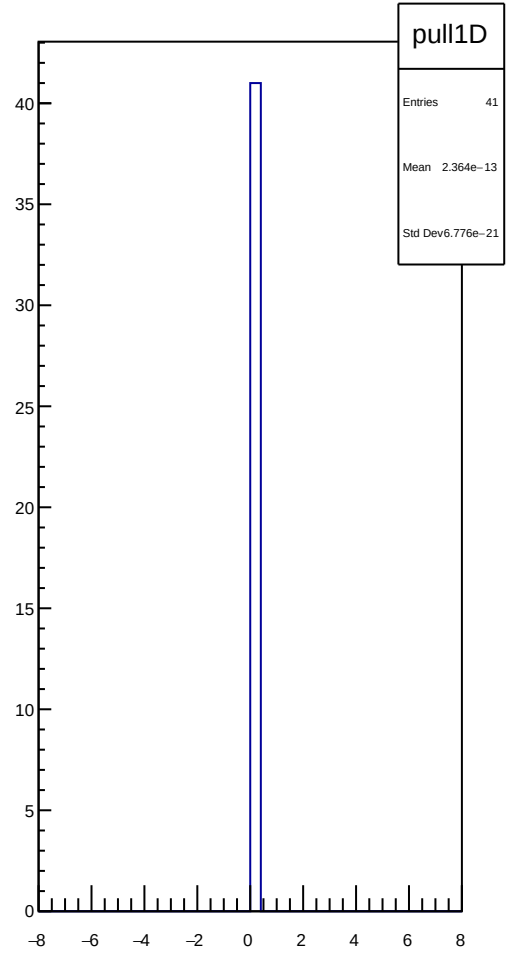
pull
Entries 41
Mean 20.5
Std Dev 11.83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Std Dev6.776e−21
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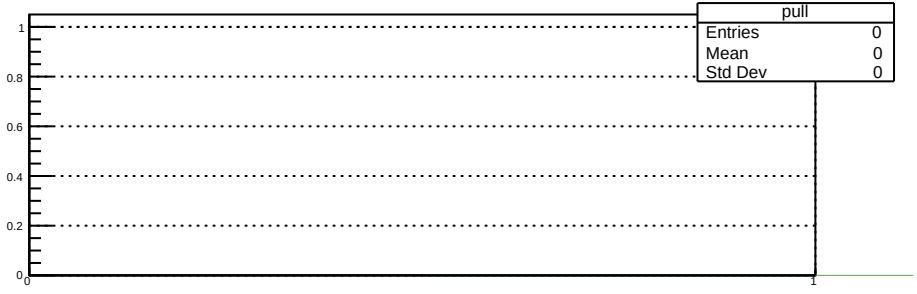
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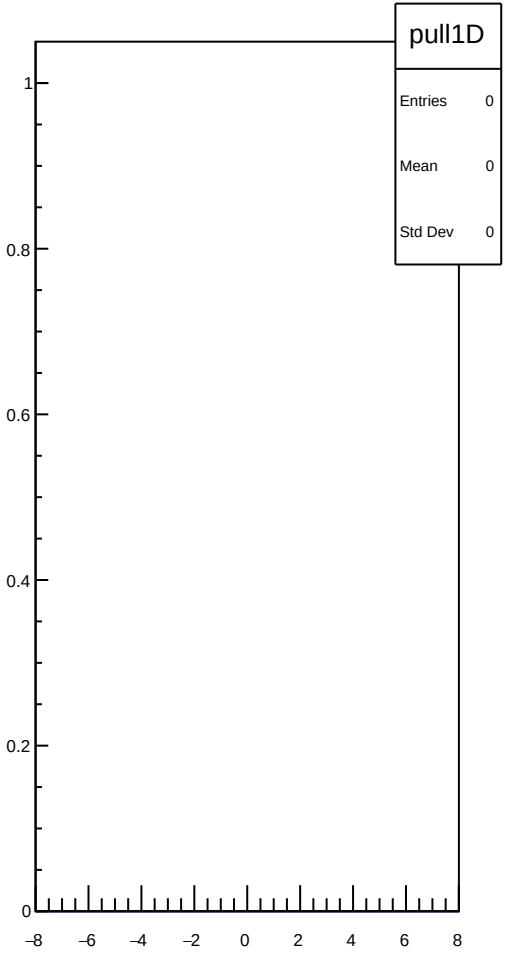
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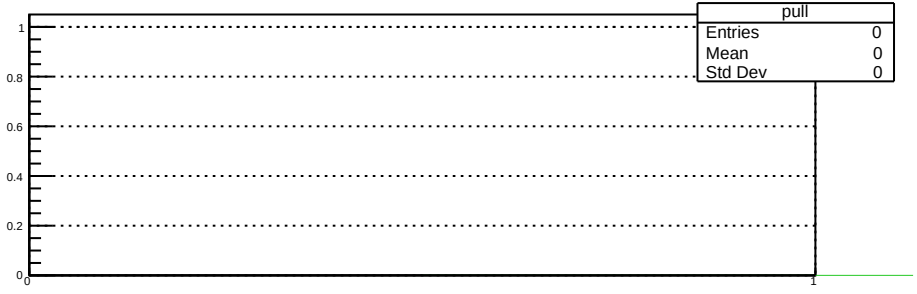
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Std Dev 0
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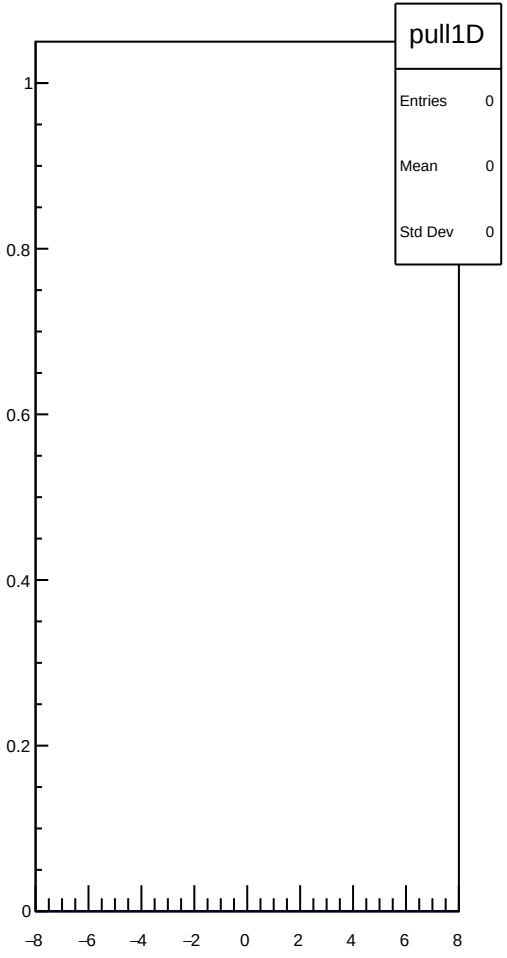
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Std Dev 0
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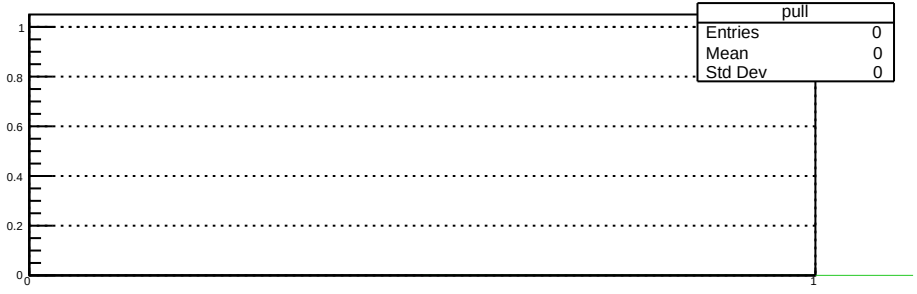
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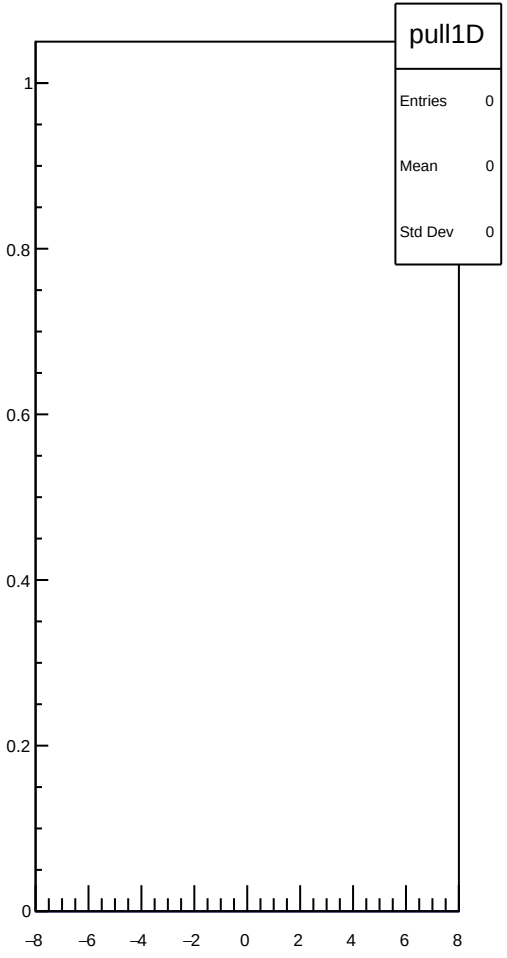
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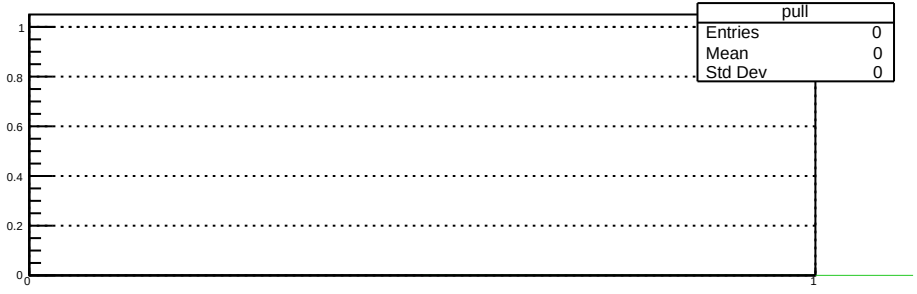
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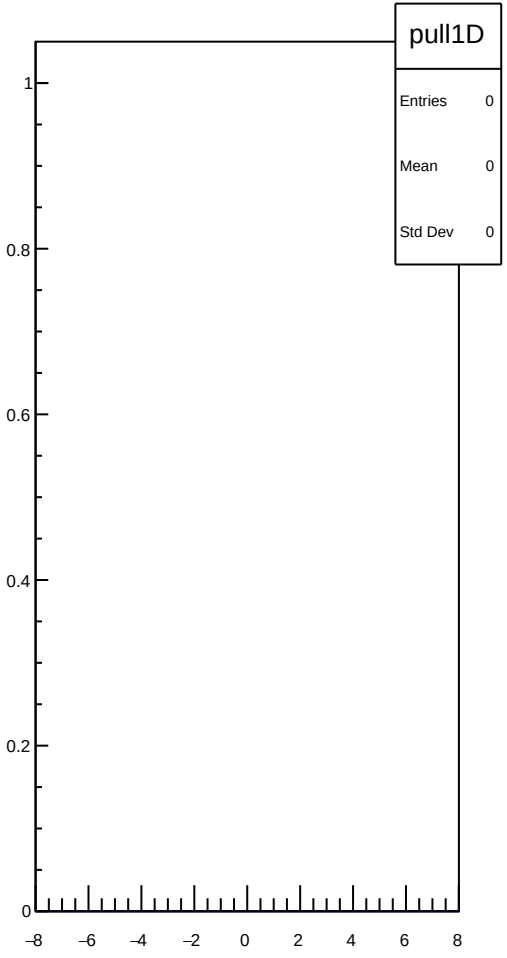
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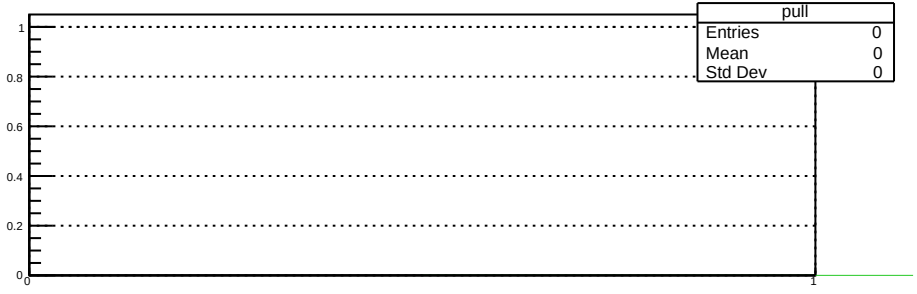
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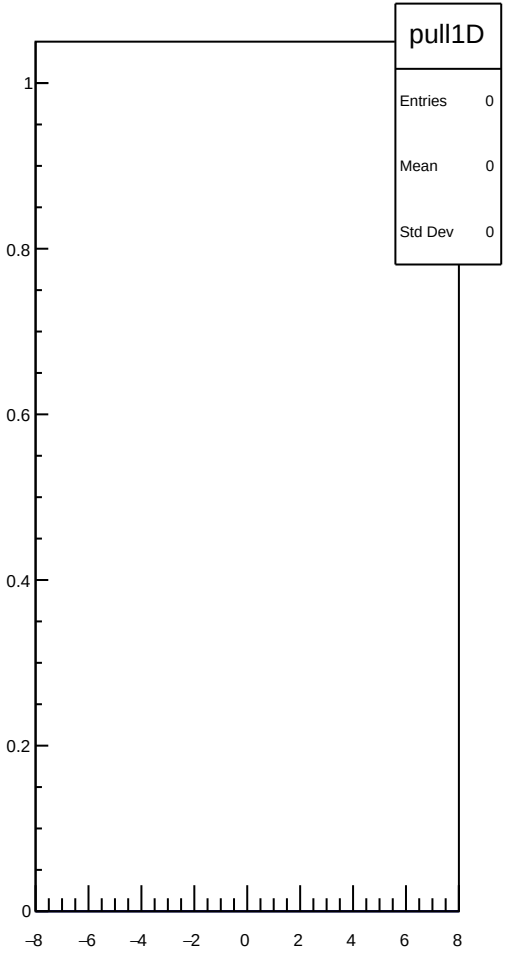
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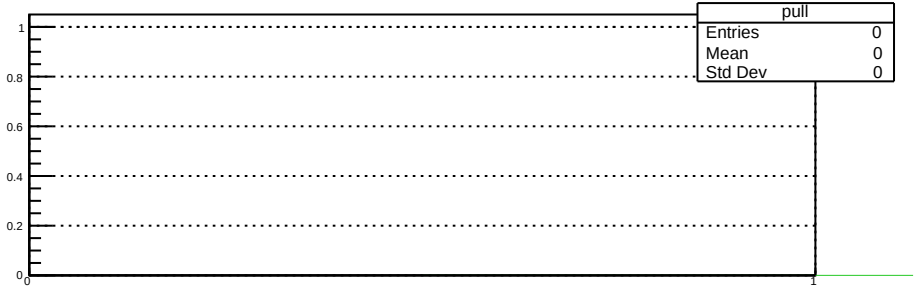
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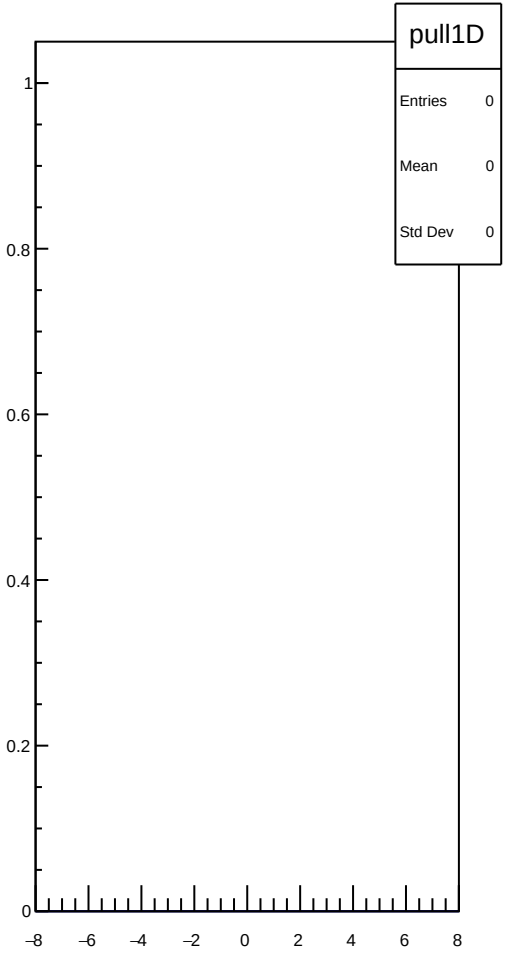
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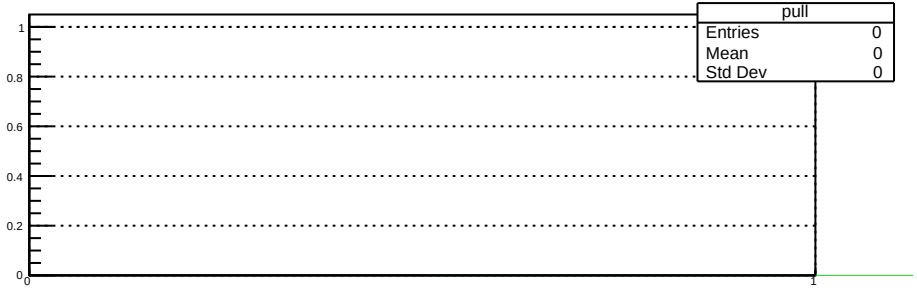
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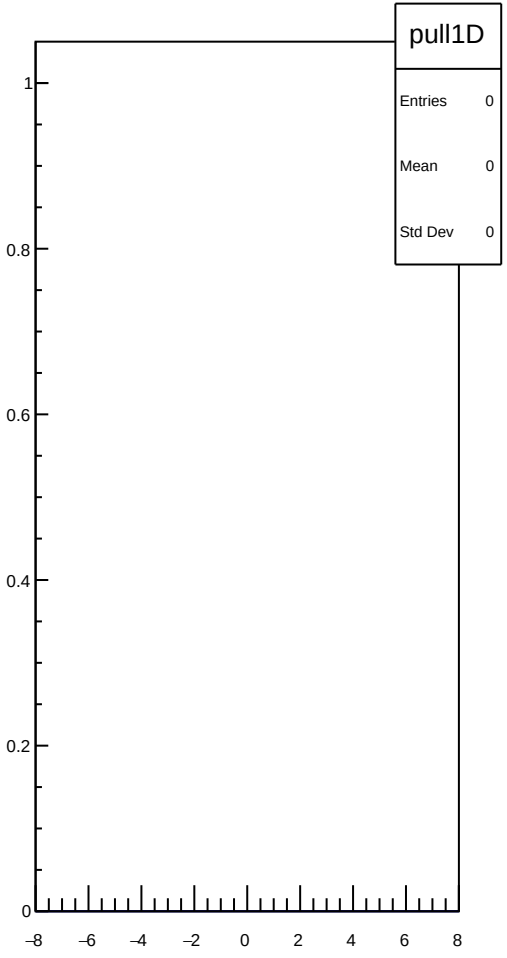
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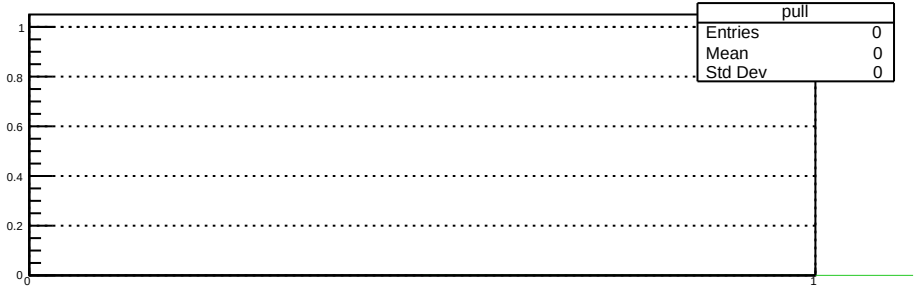
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Mean 0
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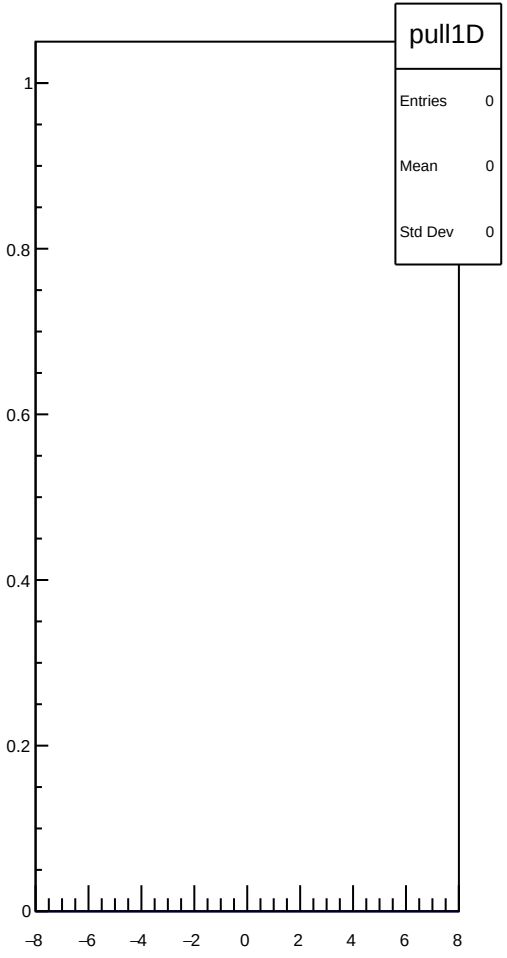
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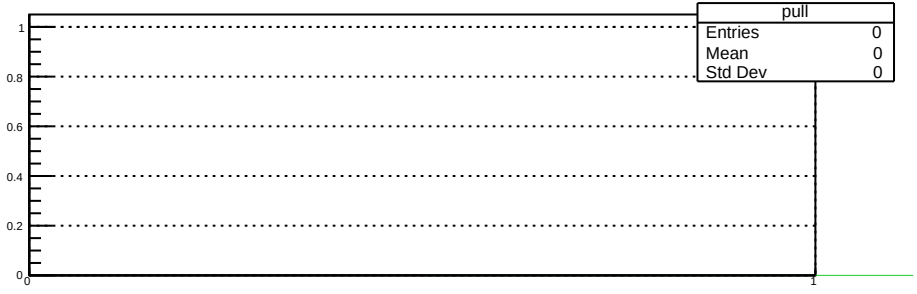
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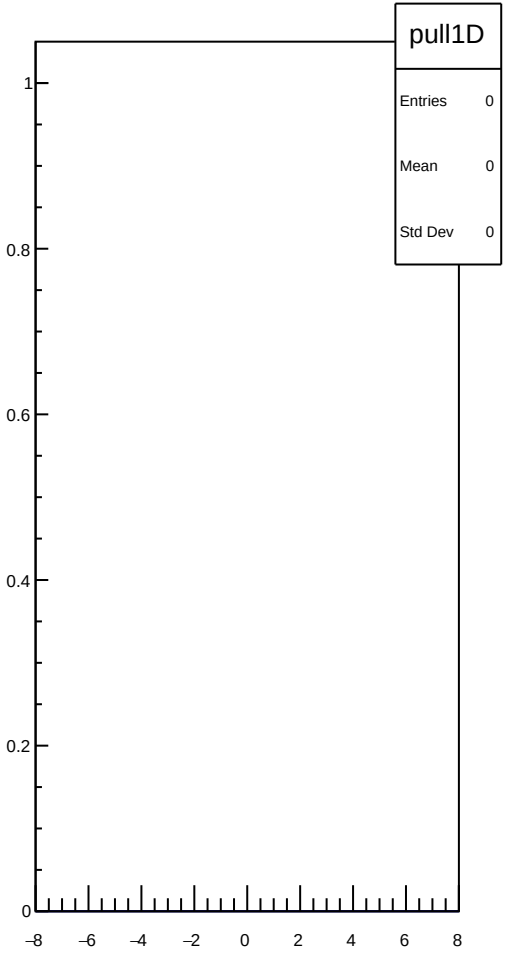
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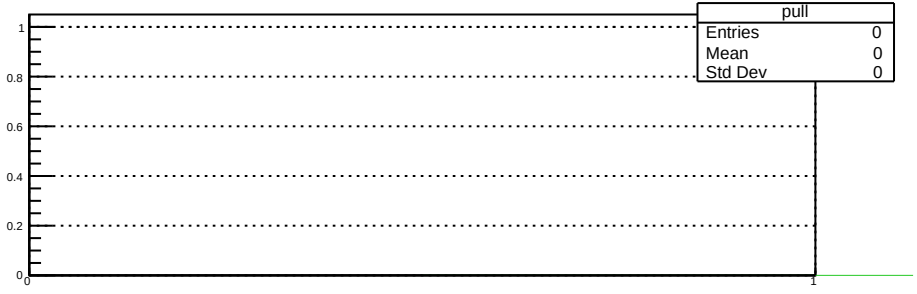
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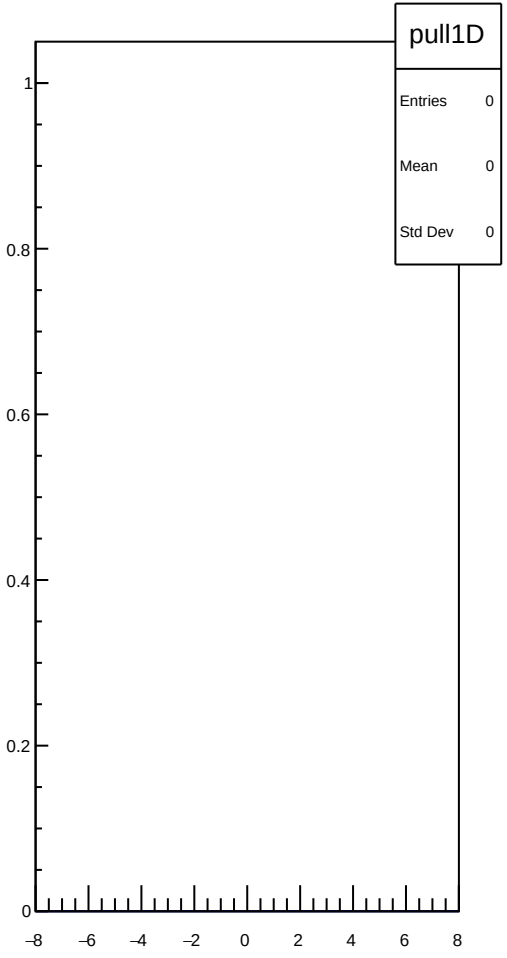
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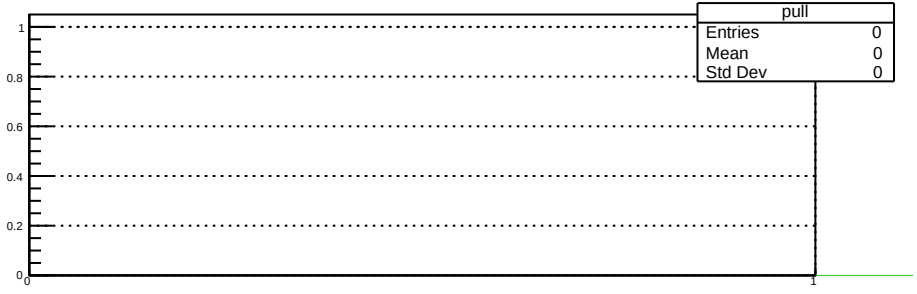
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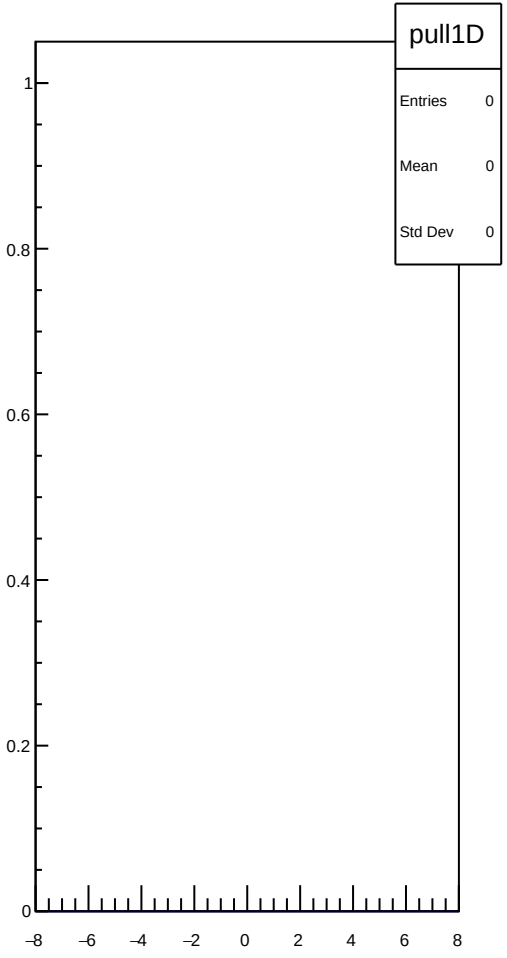
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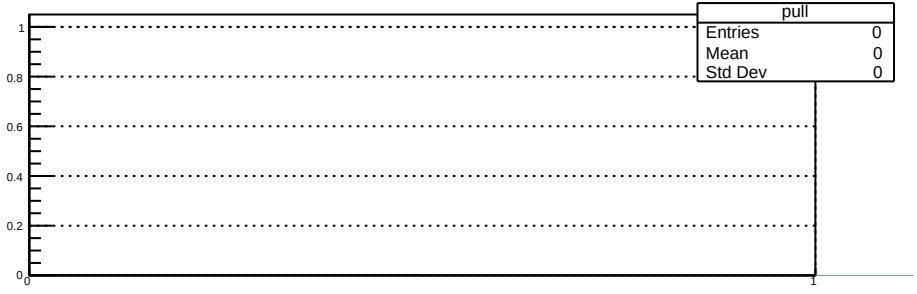
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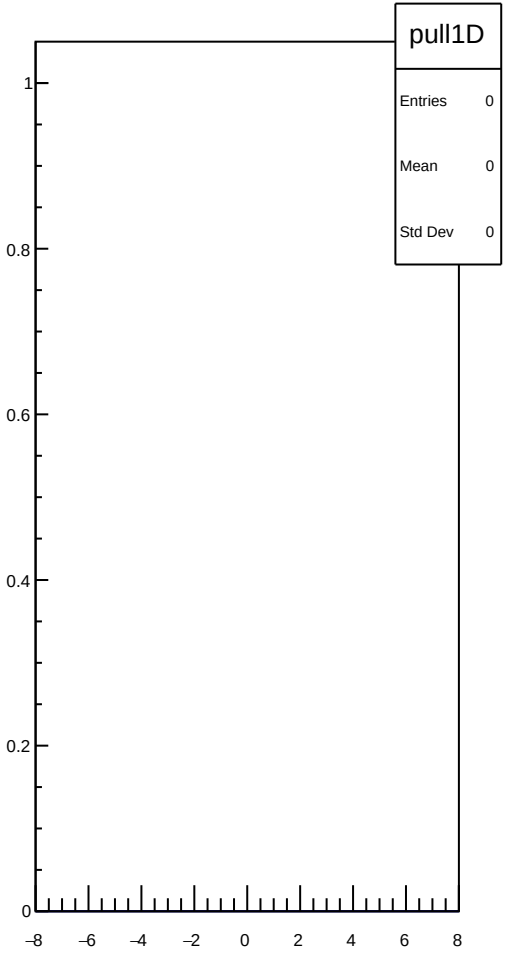
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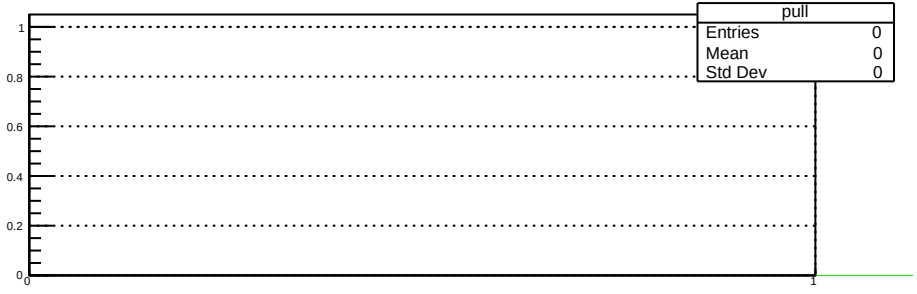
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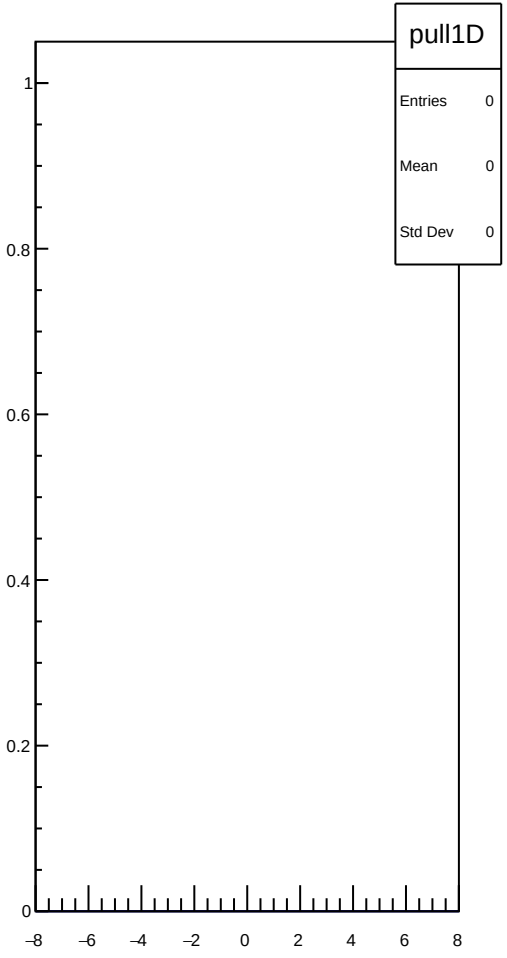
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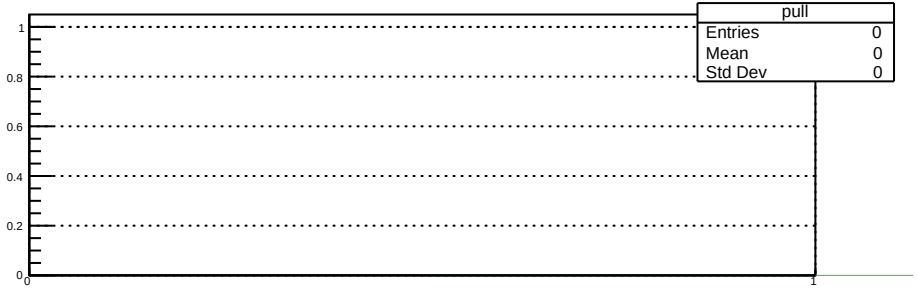
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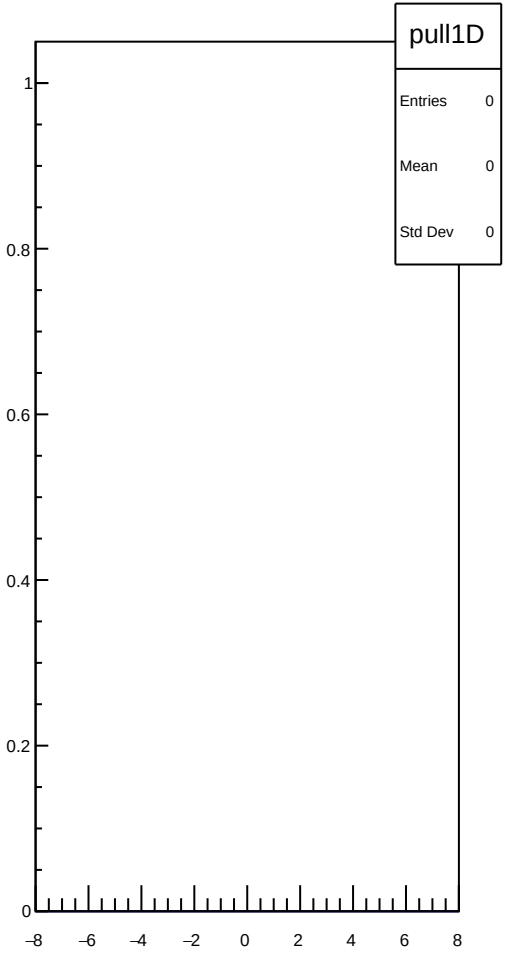
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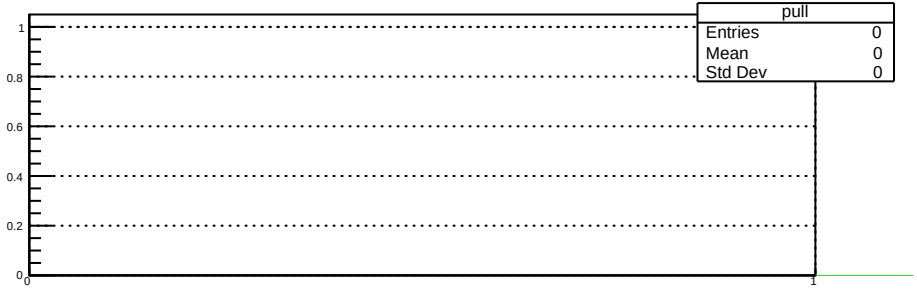
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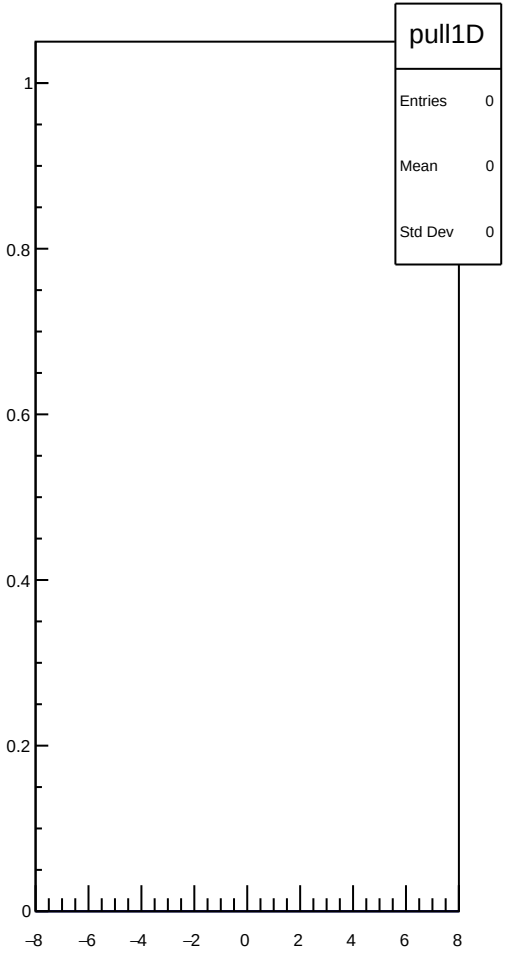
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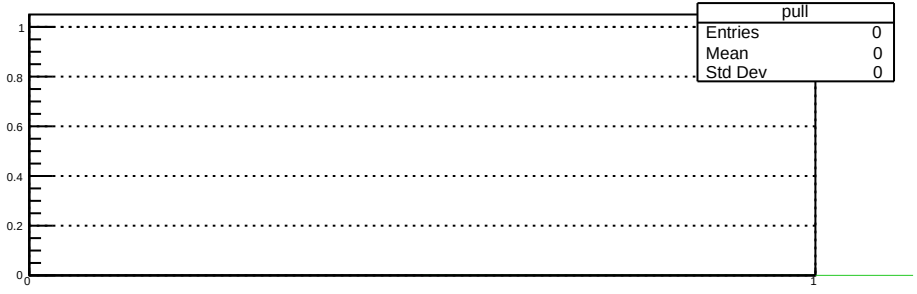
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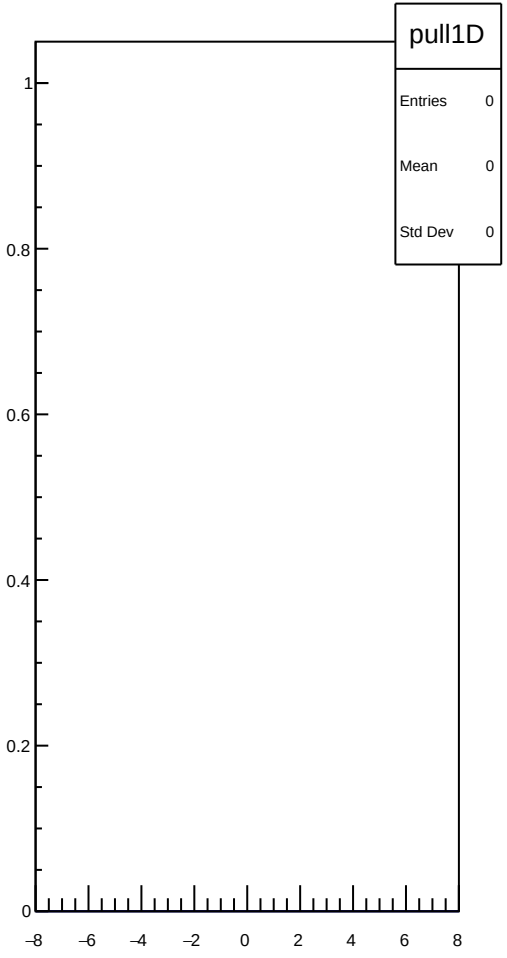
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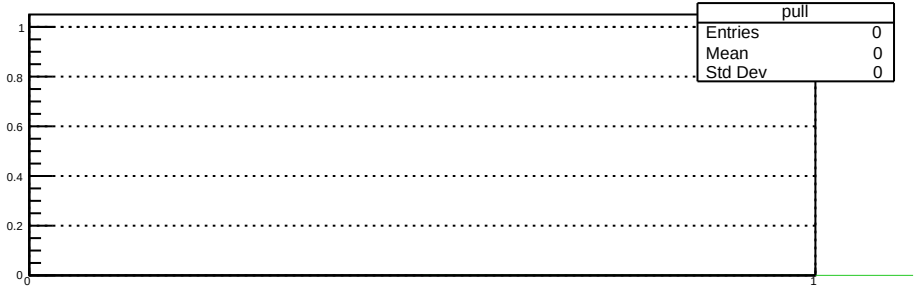
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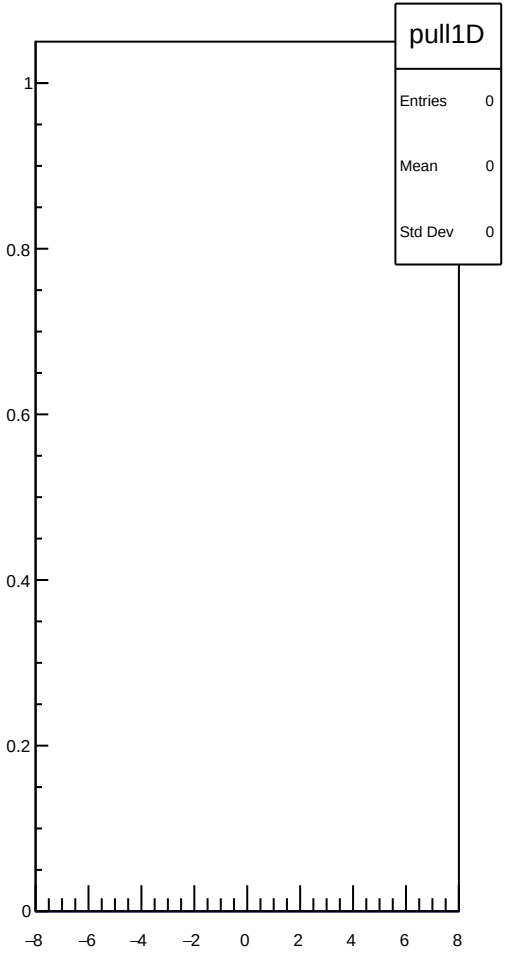
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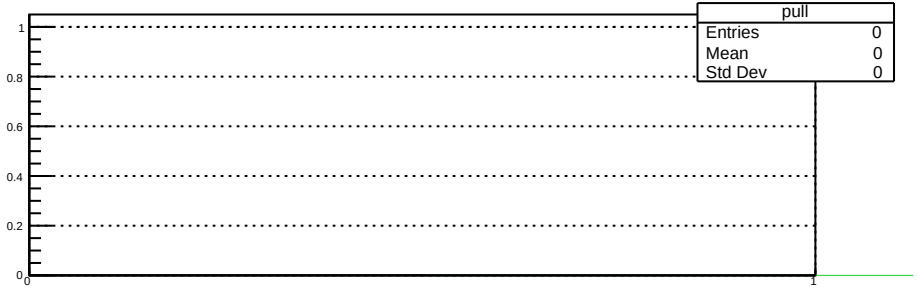
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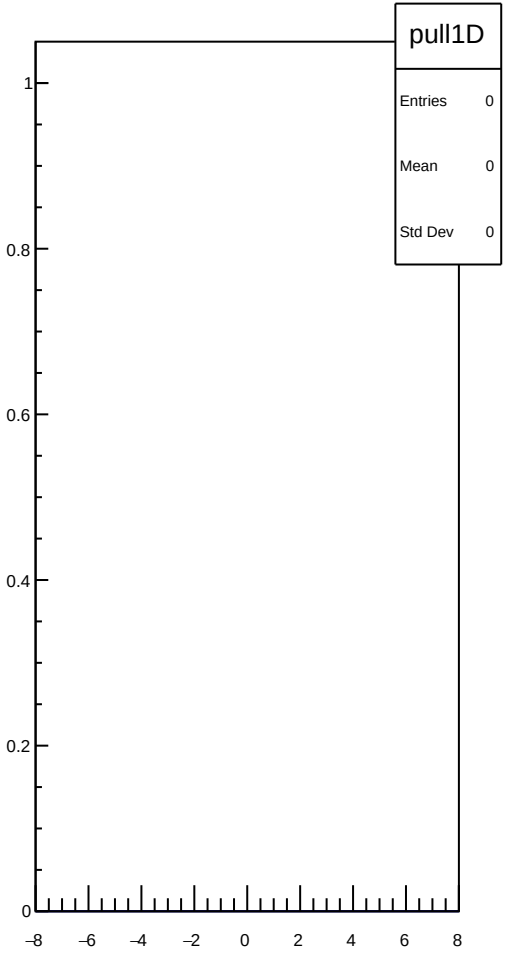
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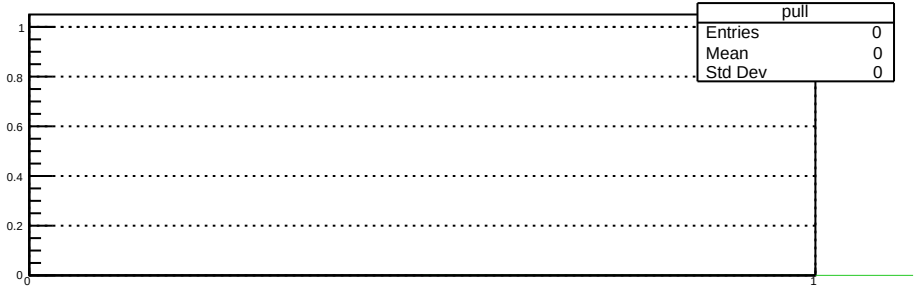
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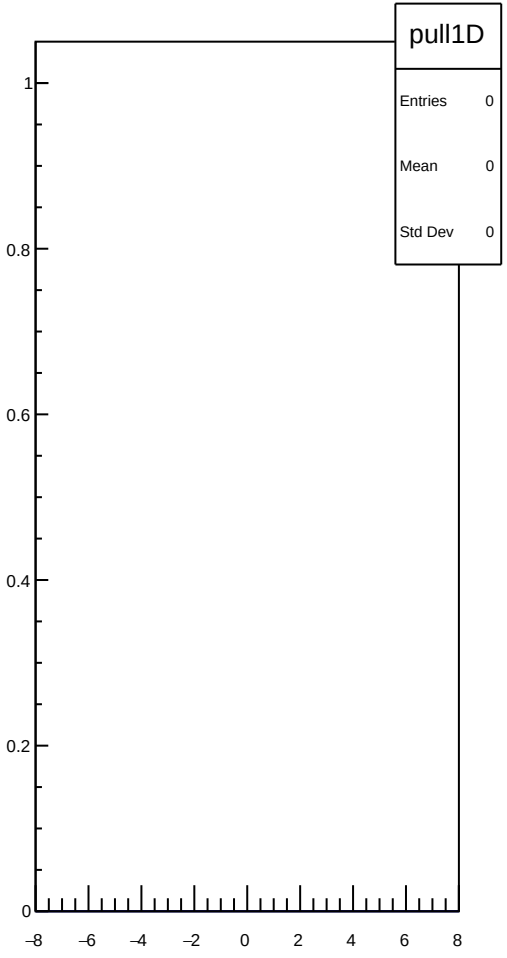
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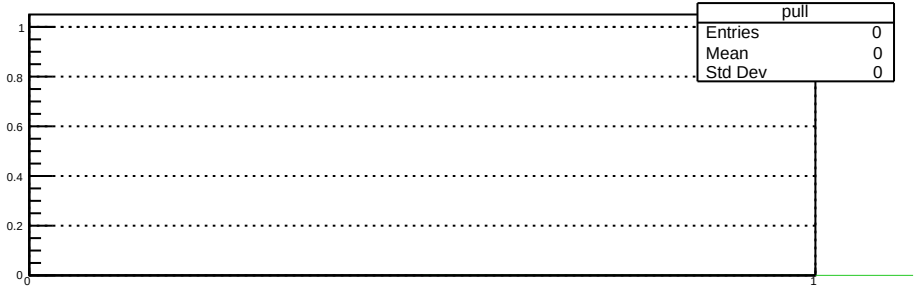
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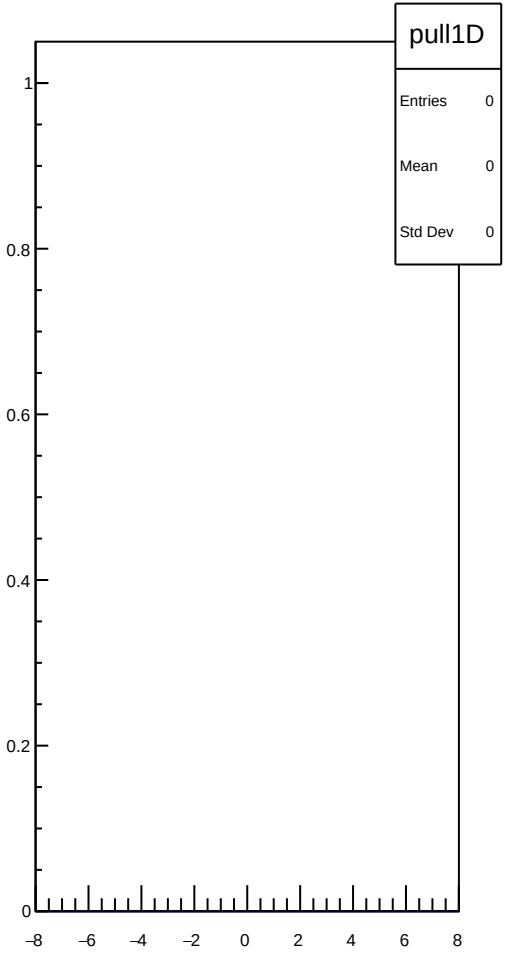
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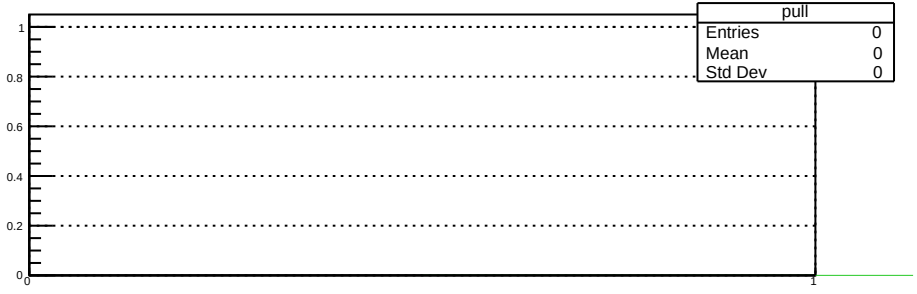
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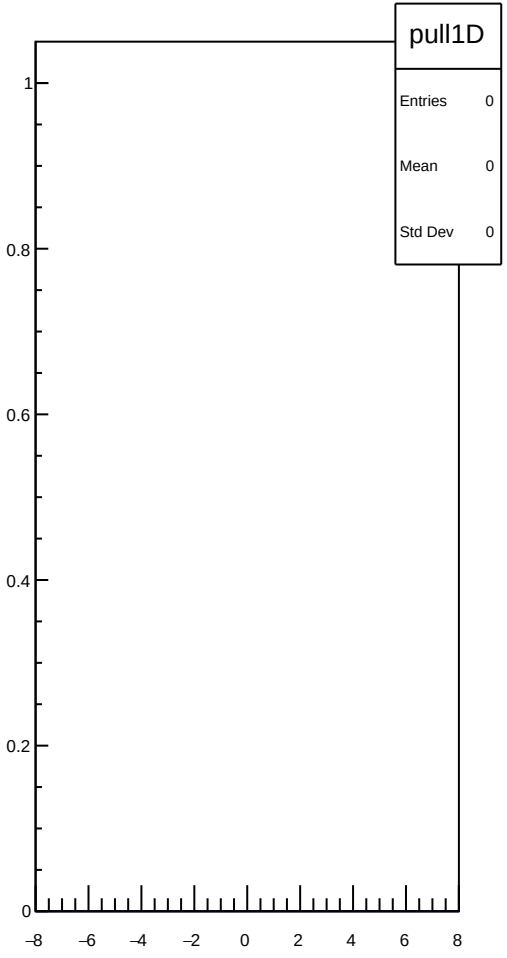
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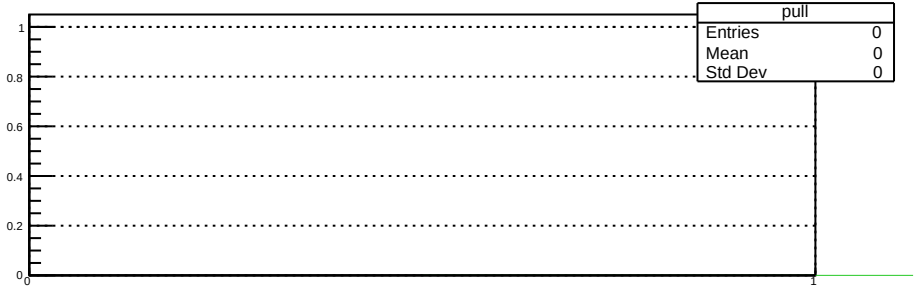
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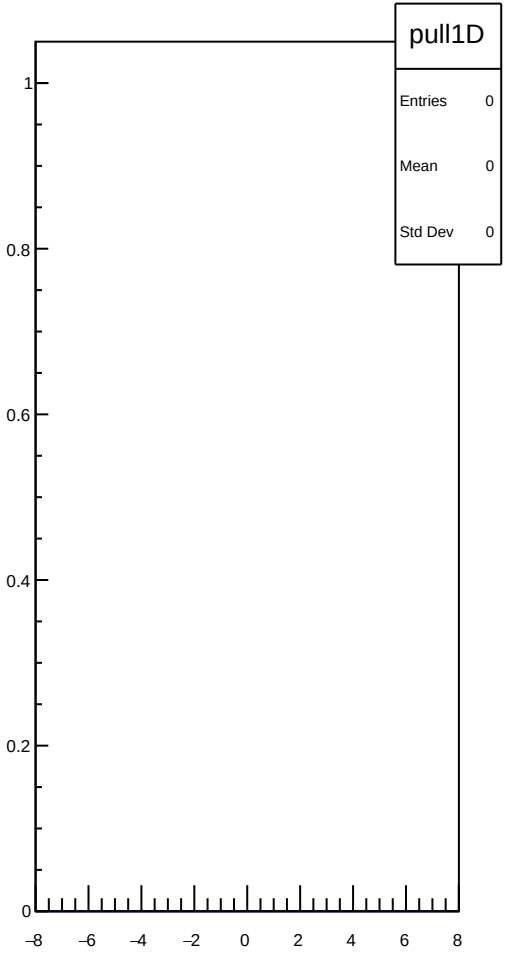
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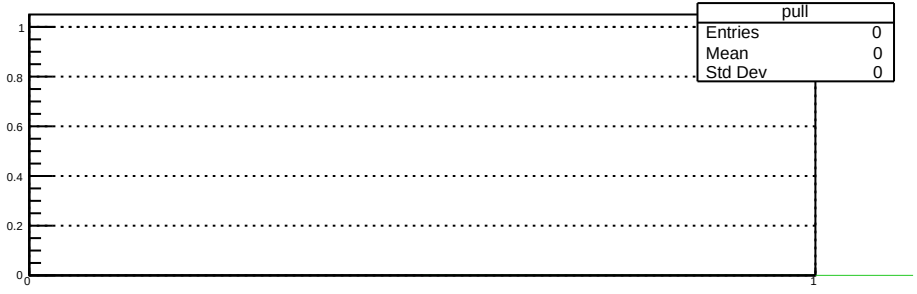
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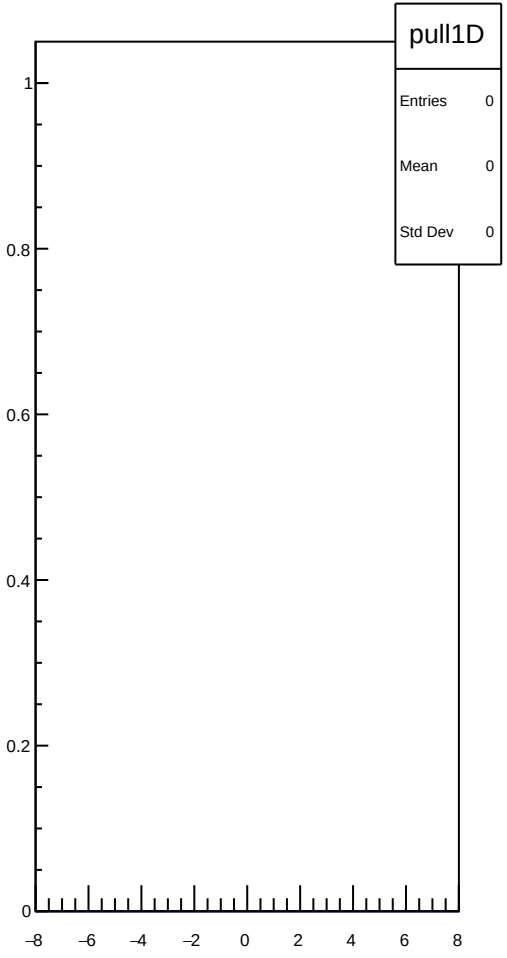
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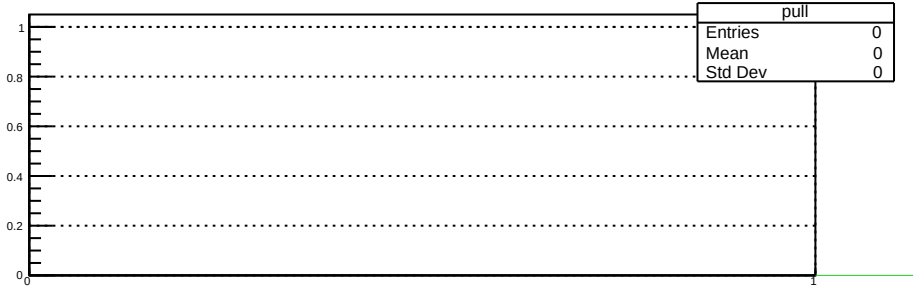
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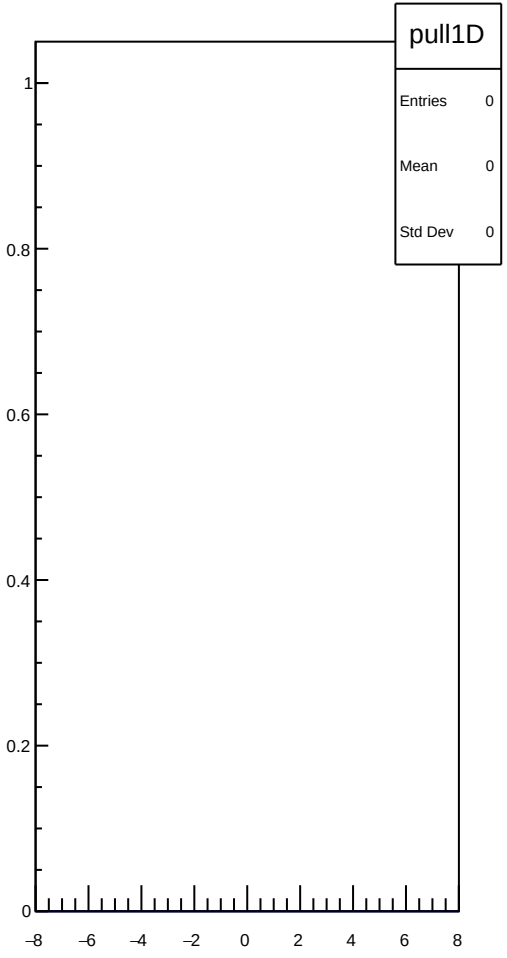
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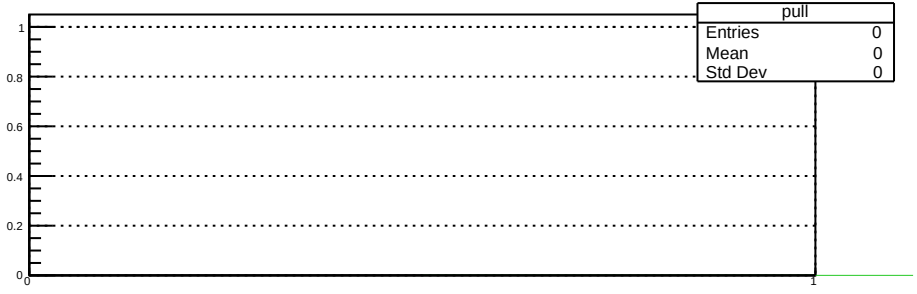
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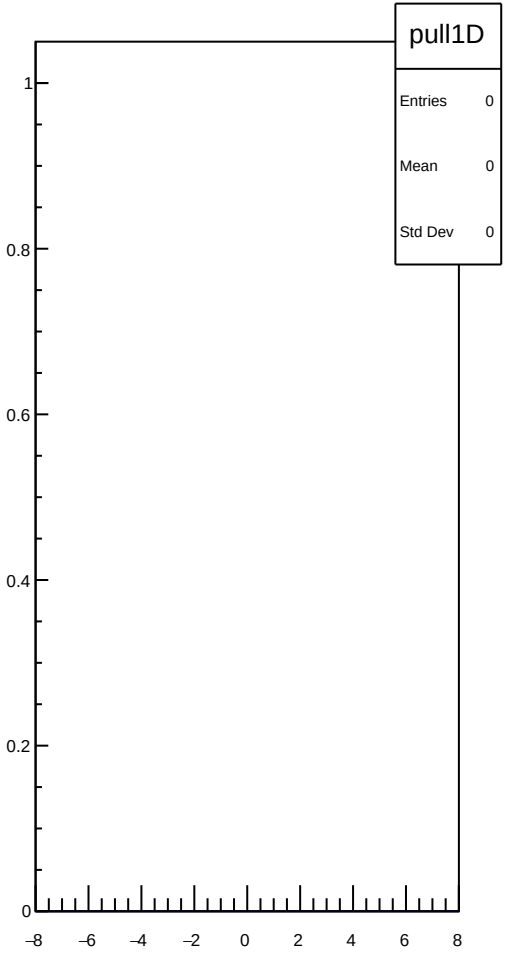
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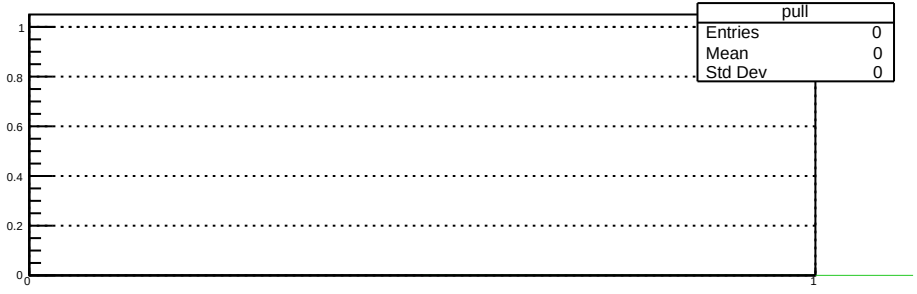
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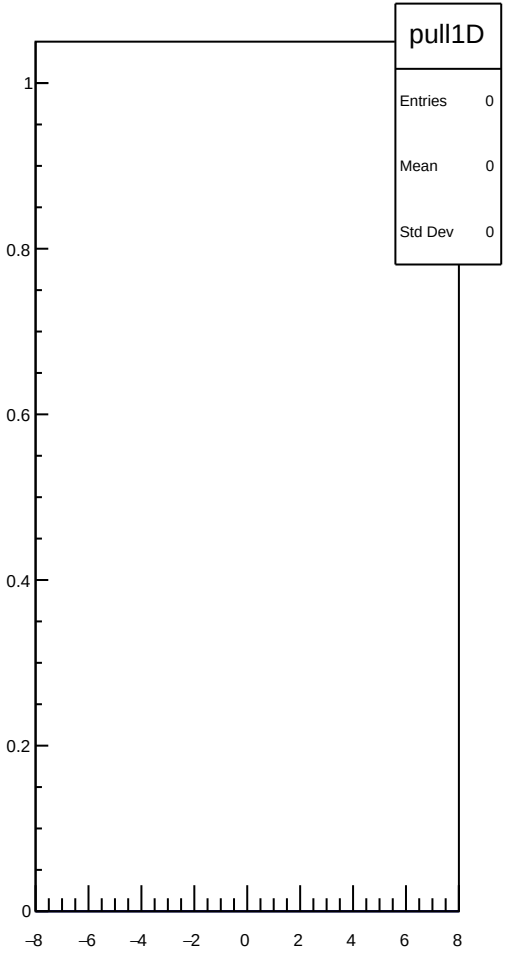
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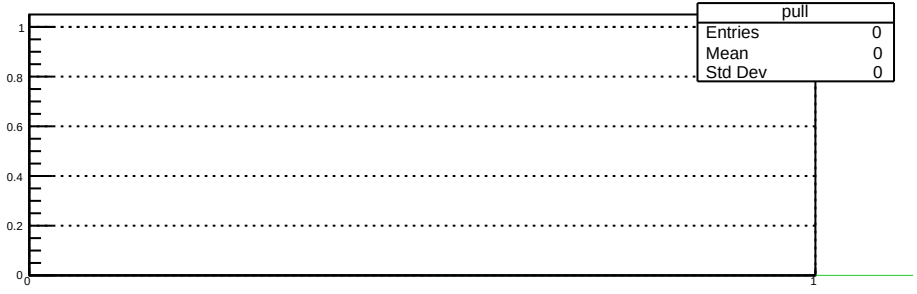
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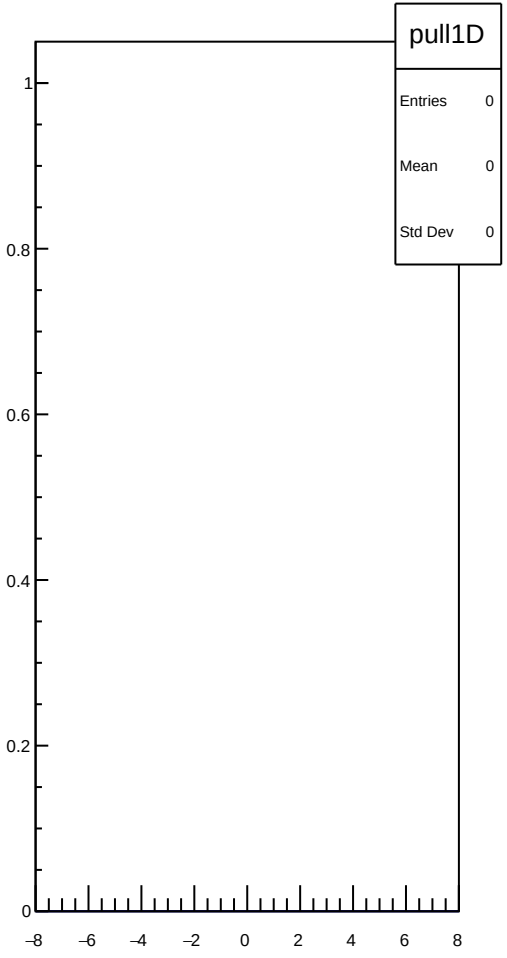
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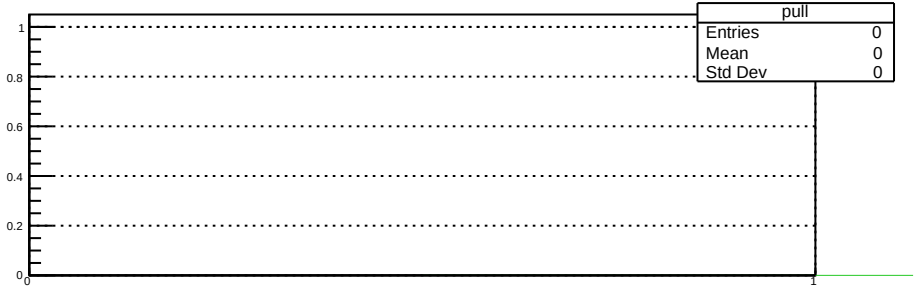
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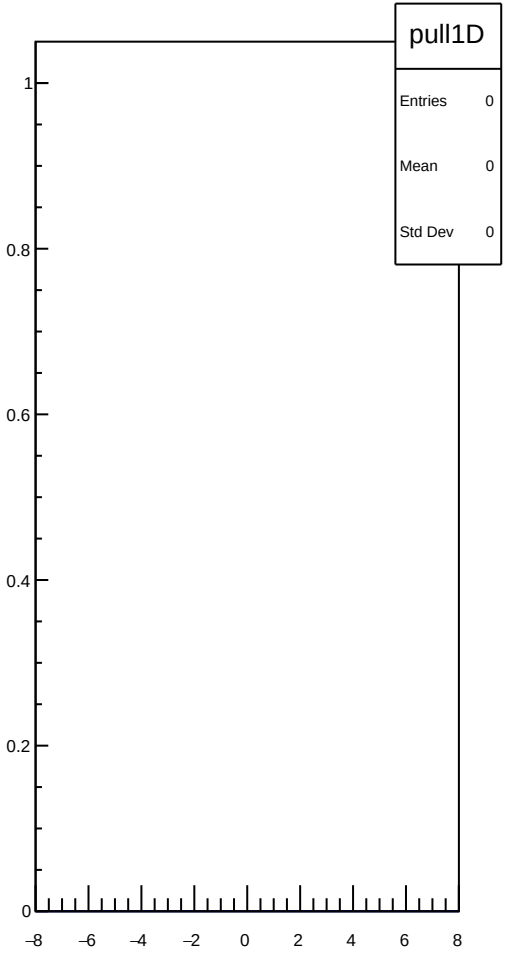
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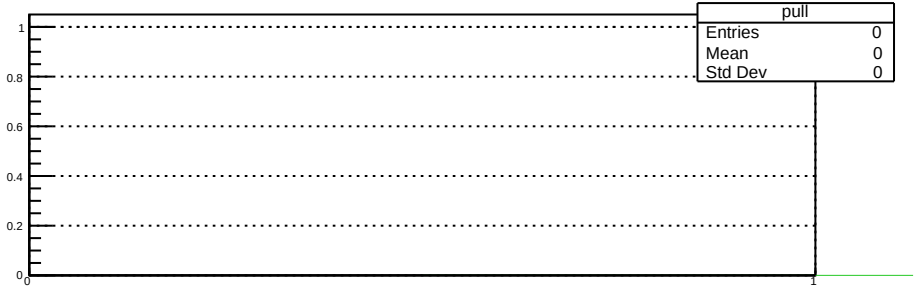
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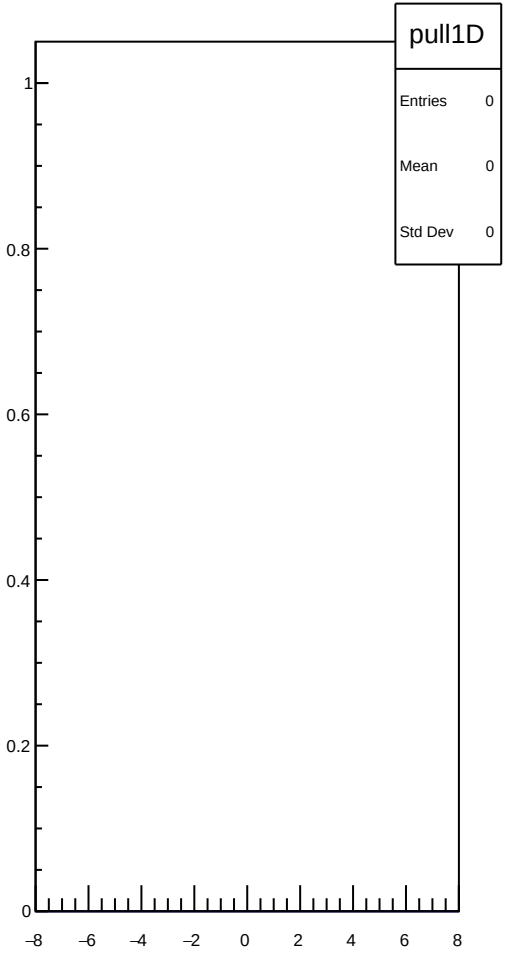
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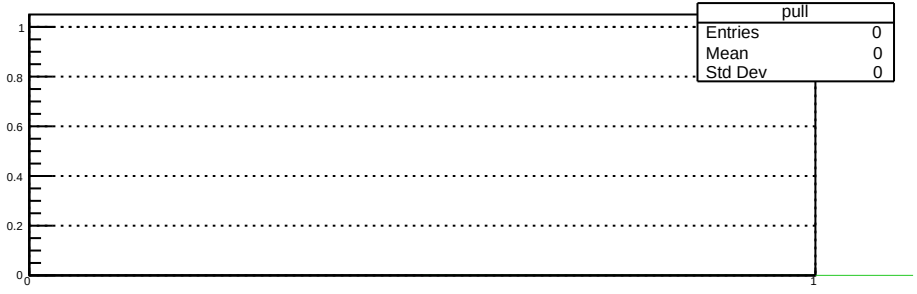
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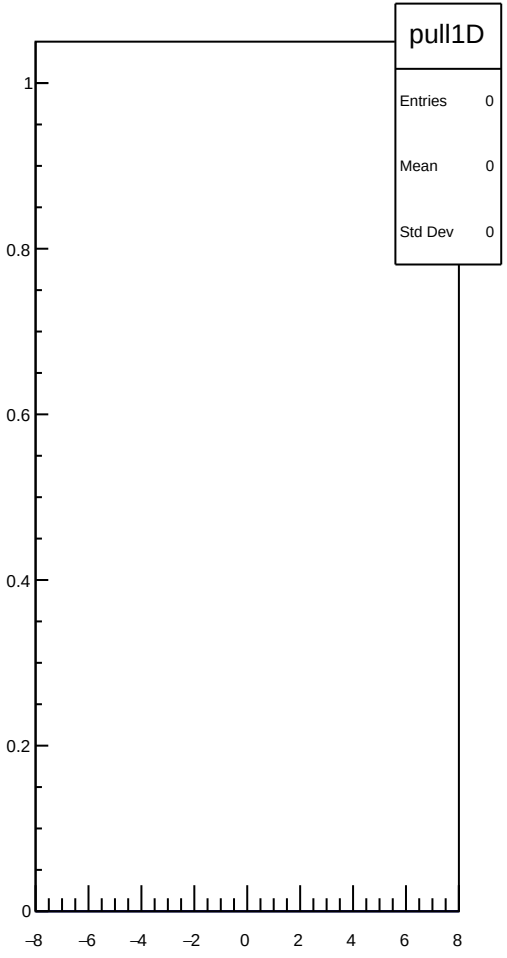
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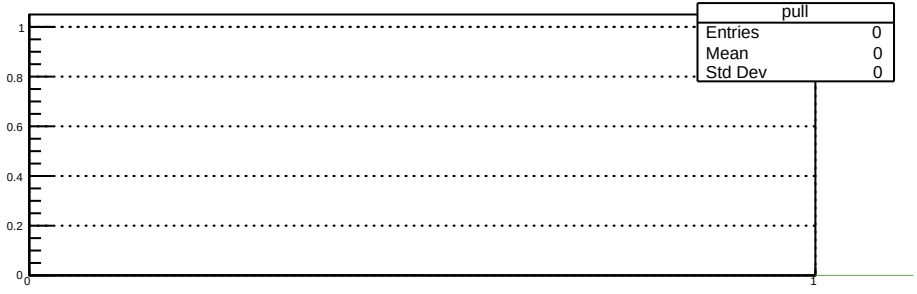
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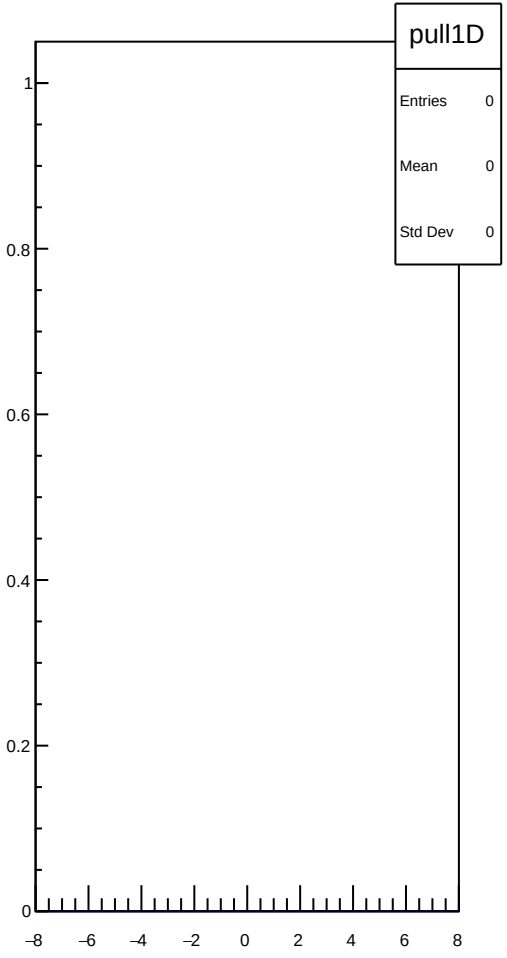
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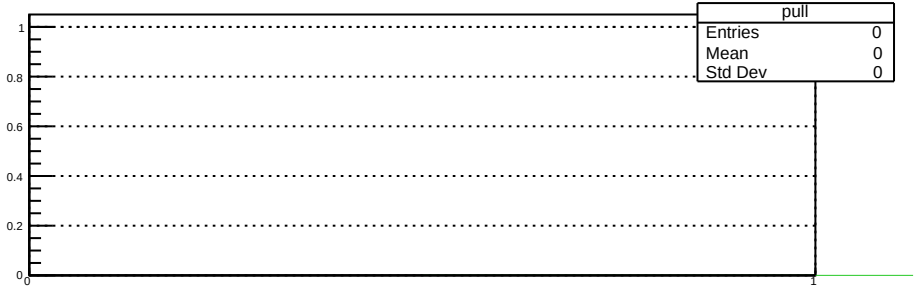
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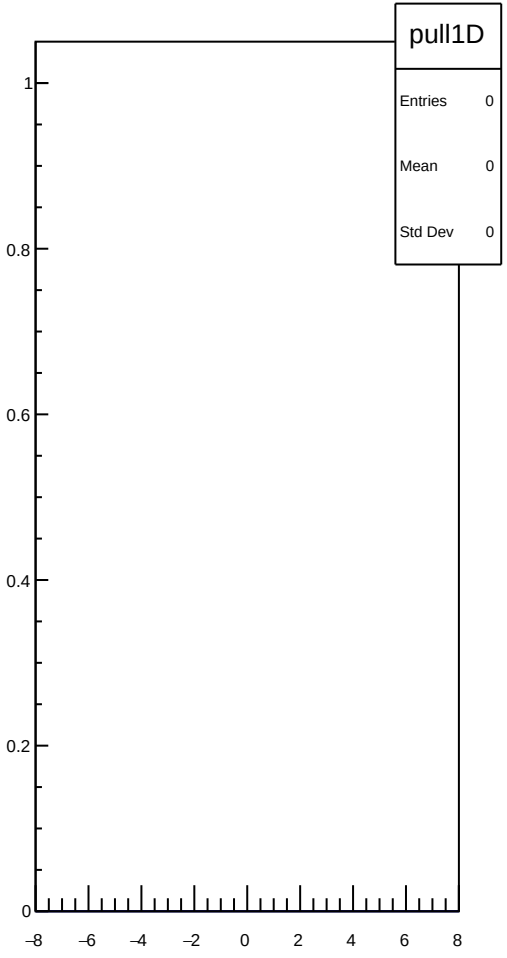
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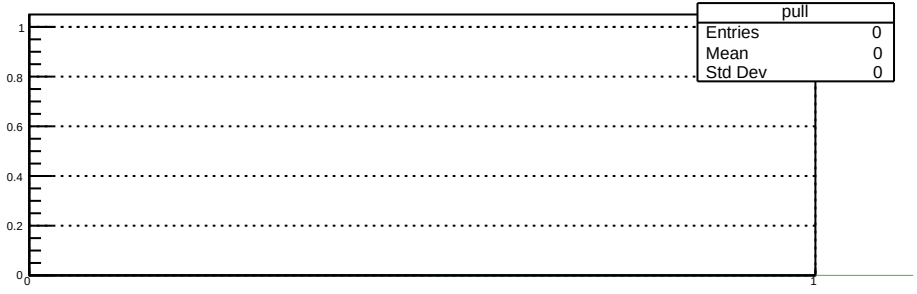
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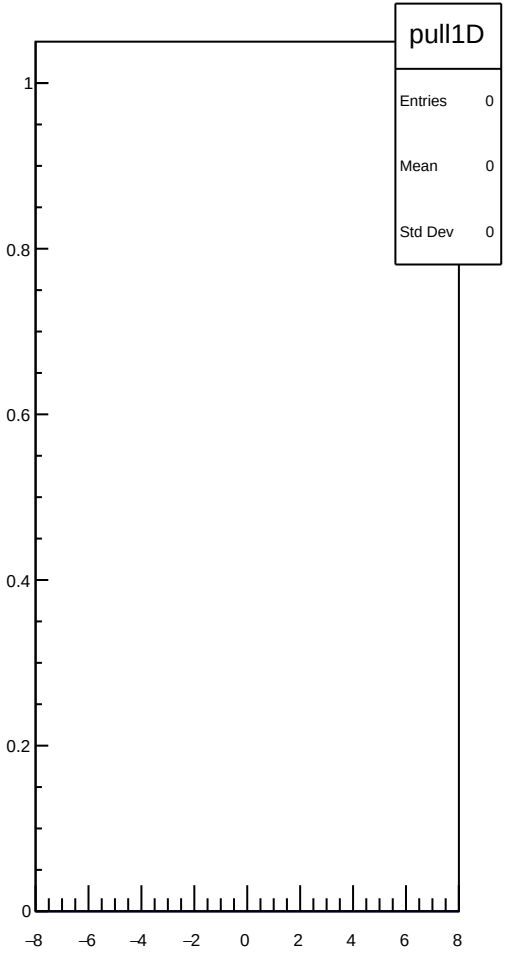
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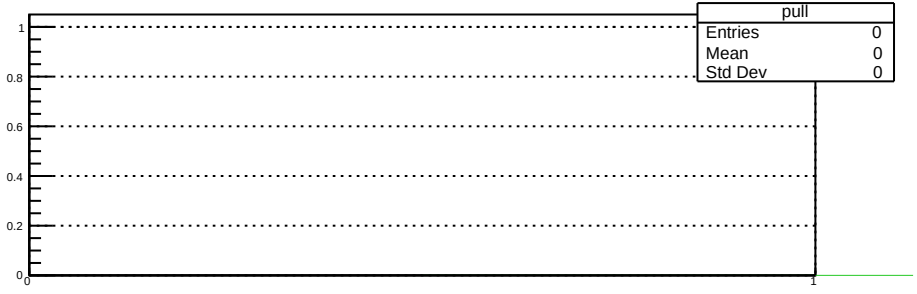
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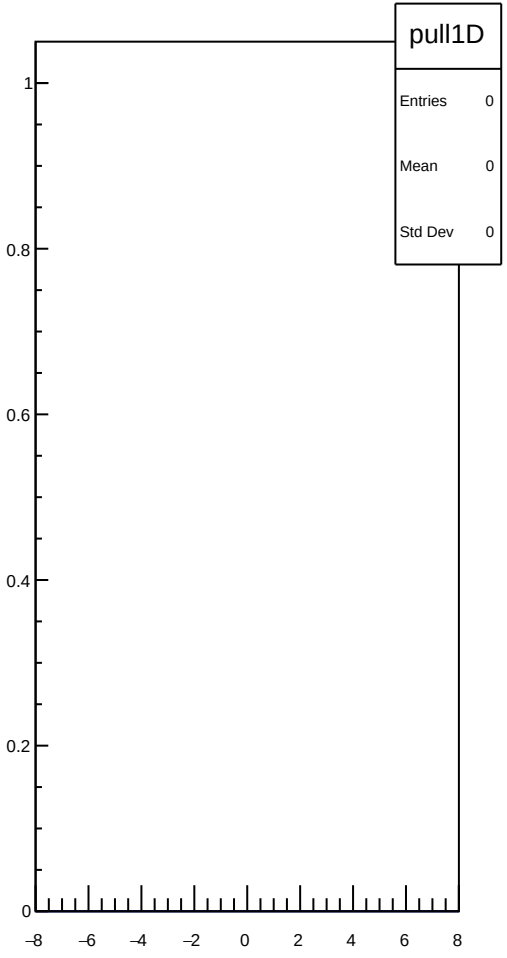
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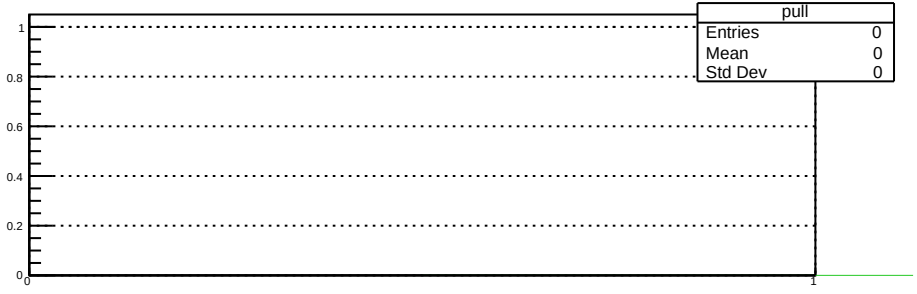
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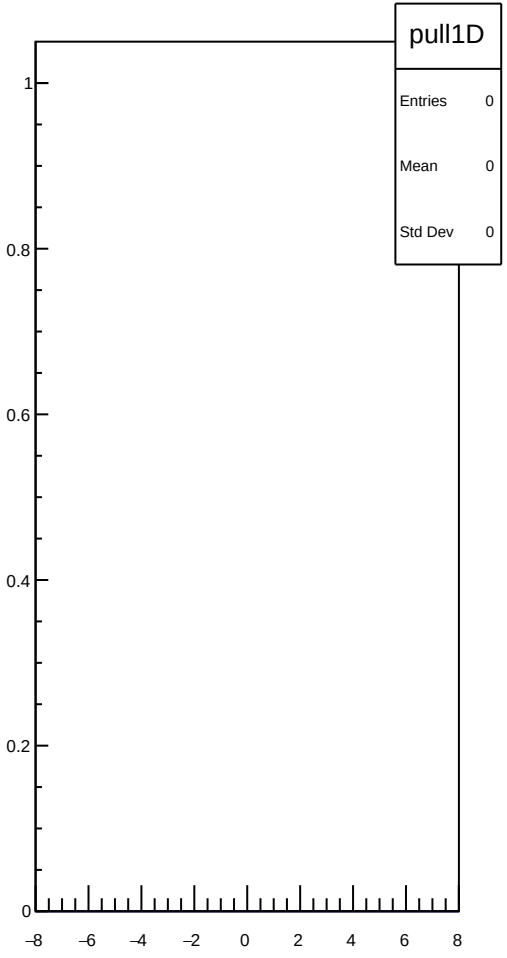
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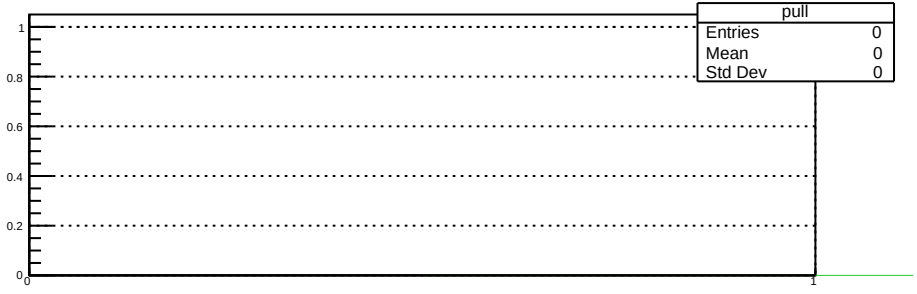
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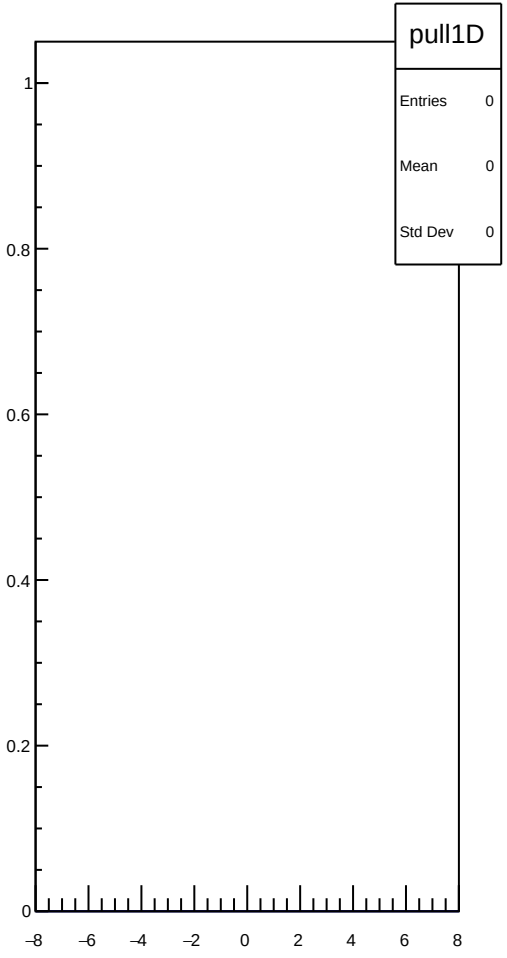
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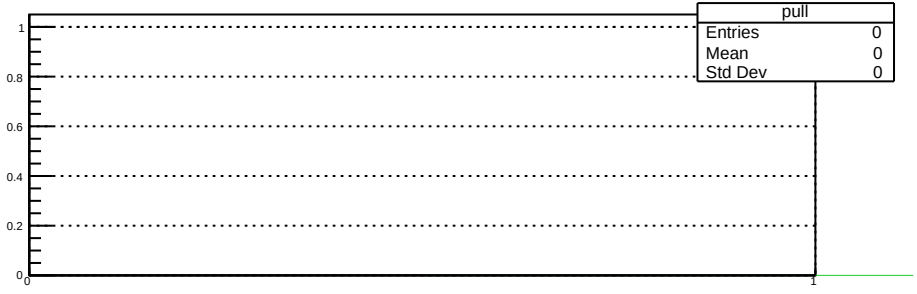
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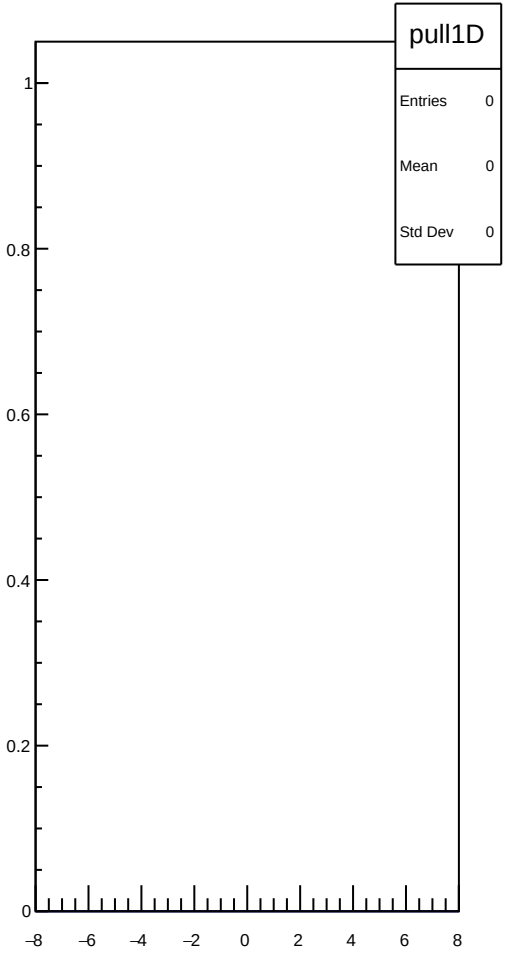
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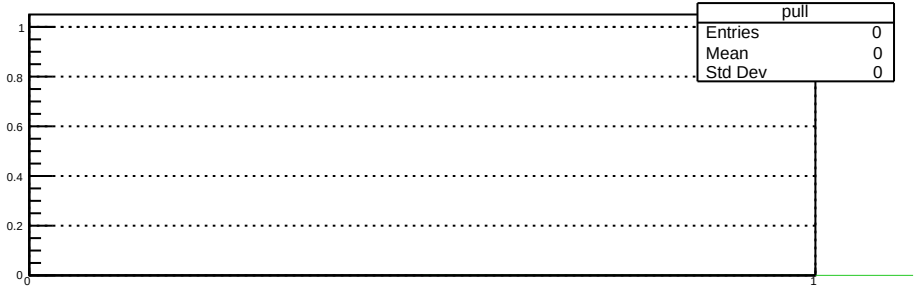
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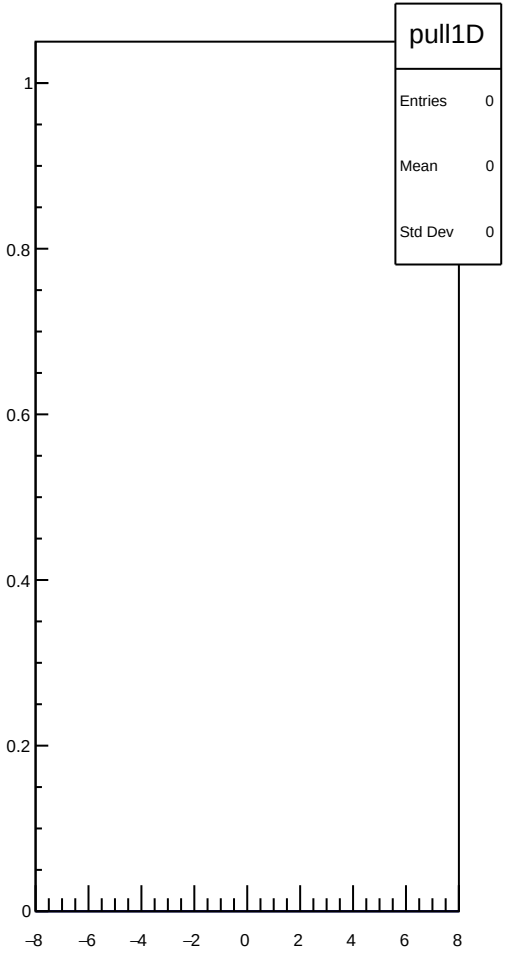
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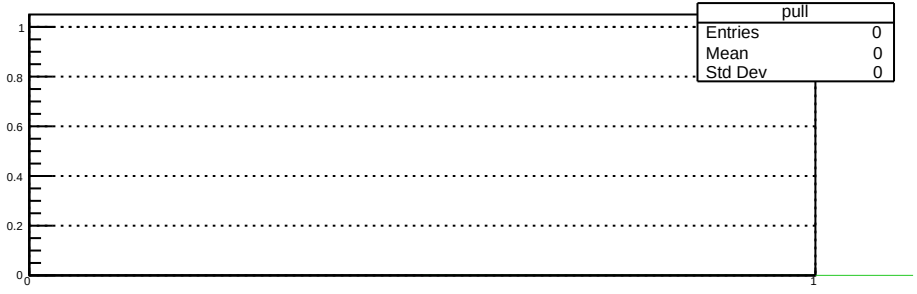
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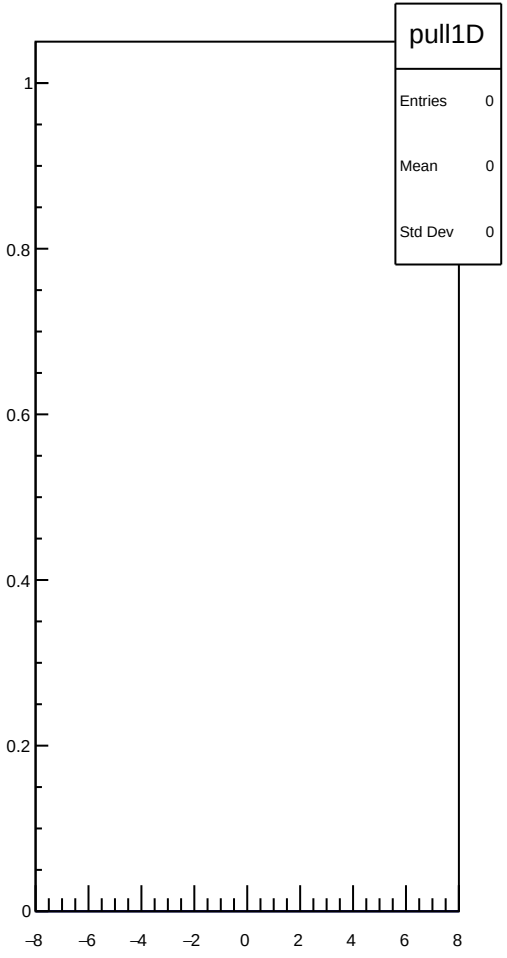
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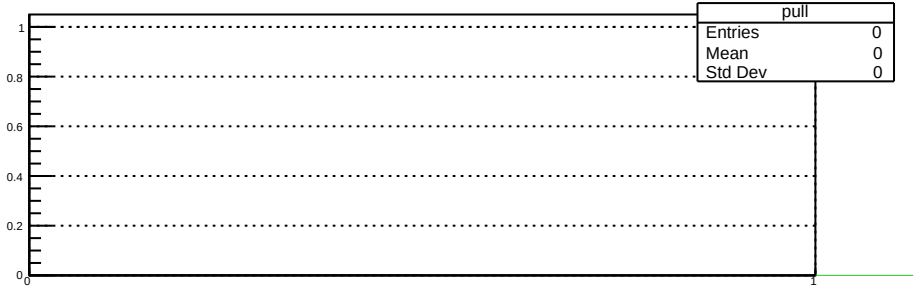
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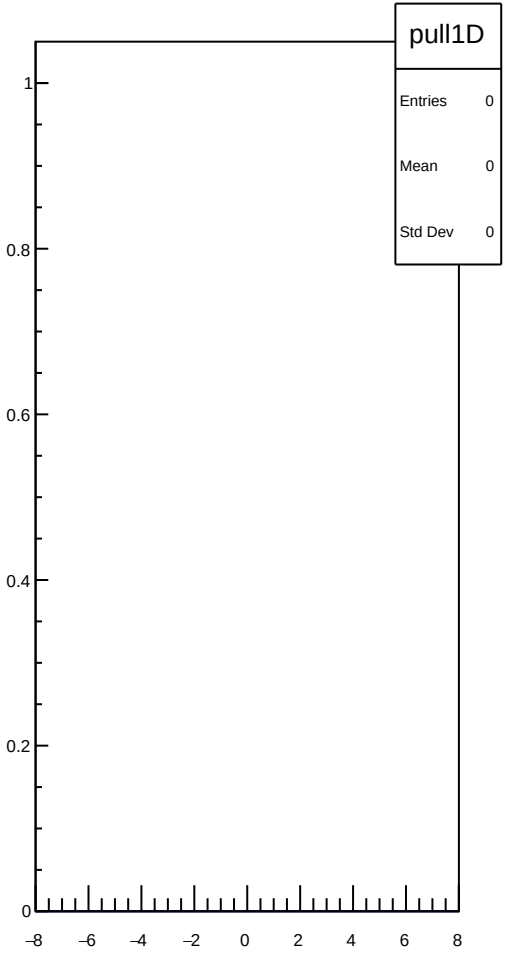
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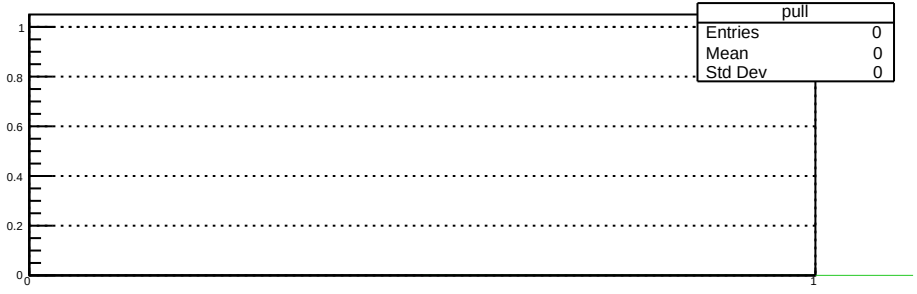
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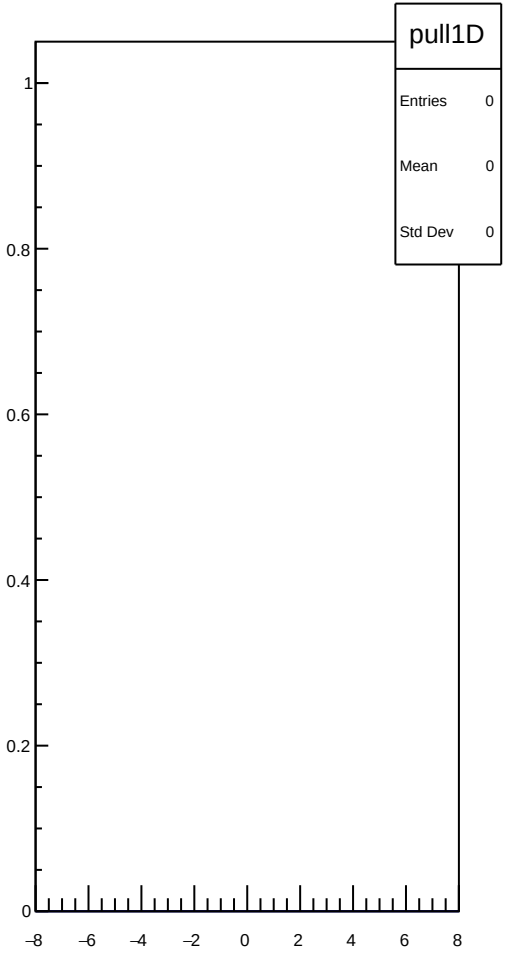
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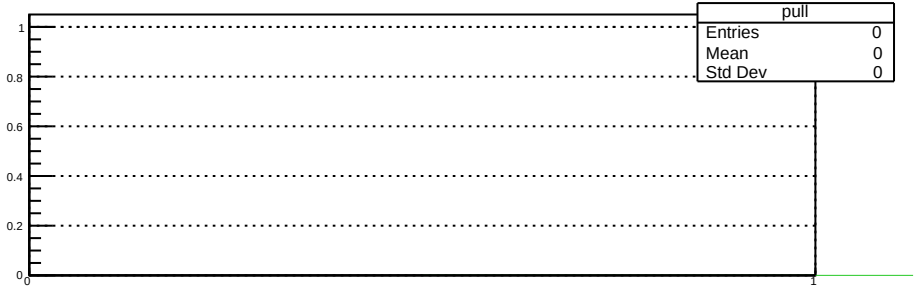
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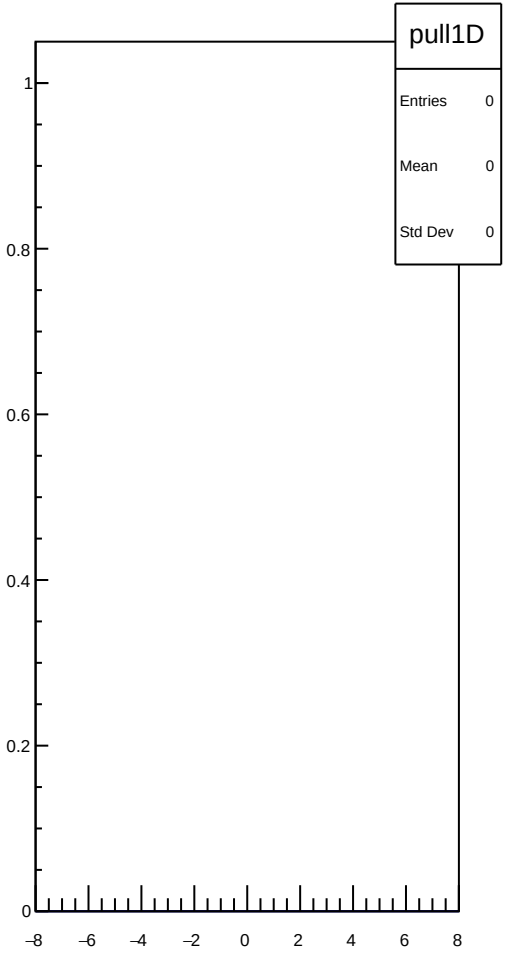
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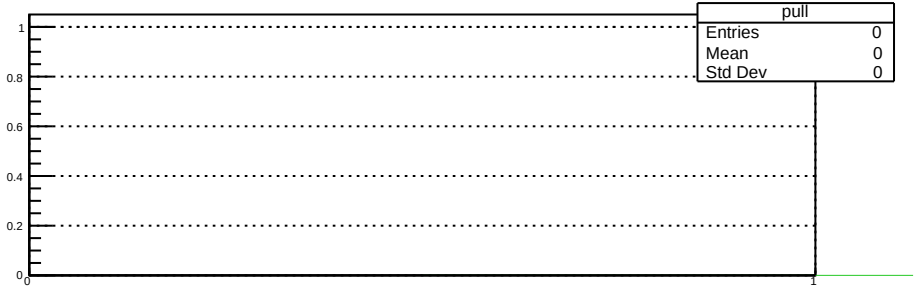
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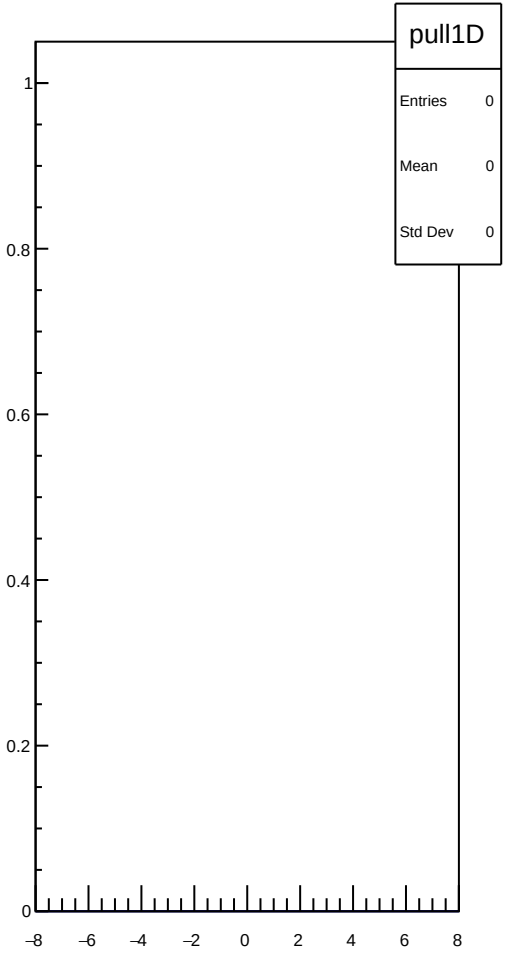
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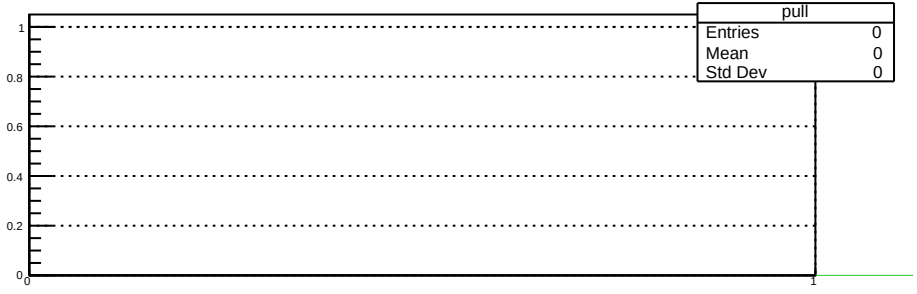
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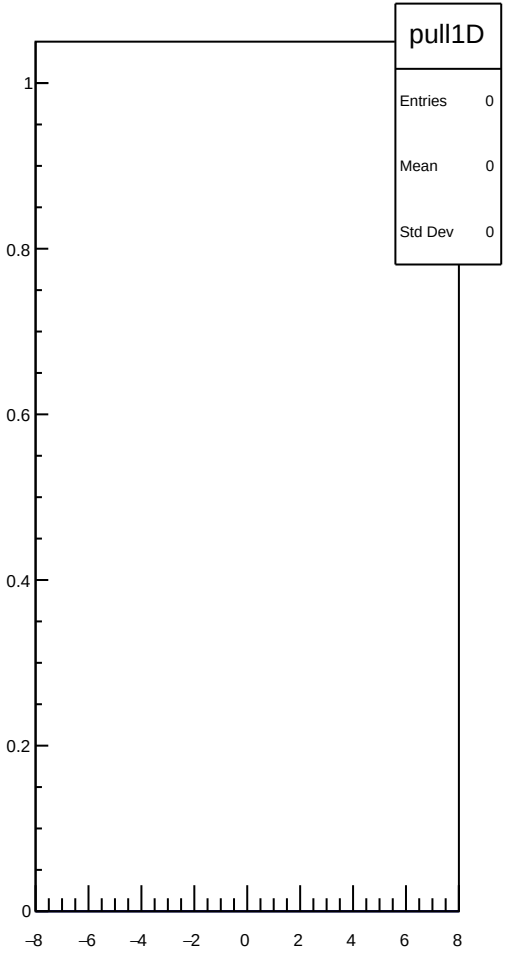
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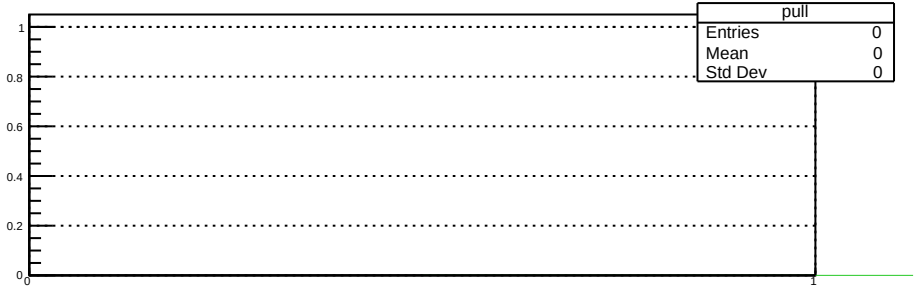
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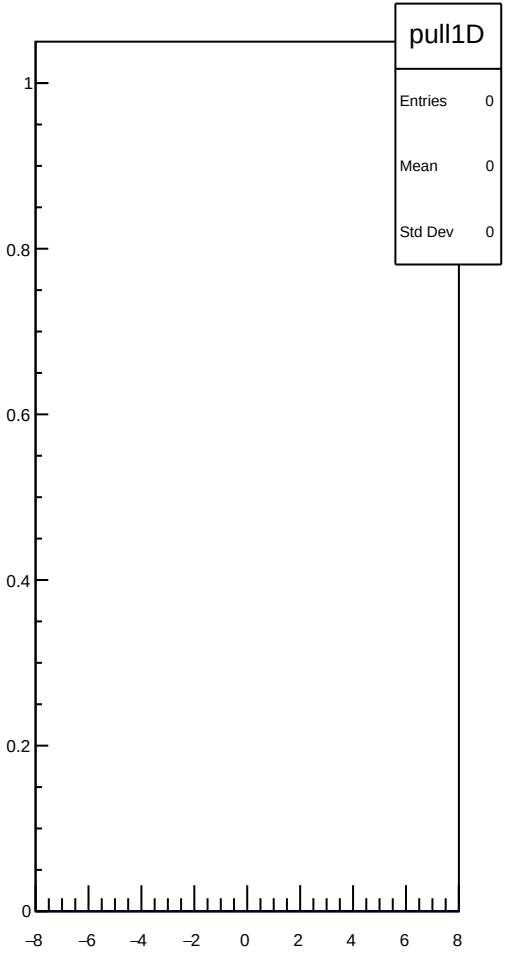
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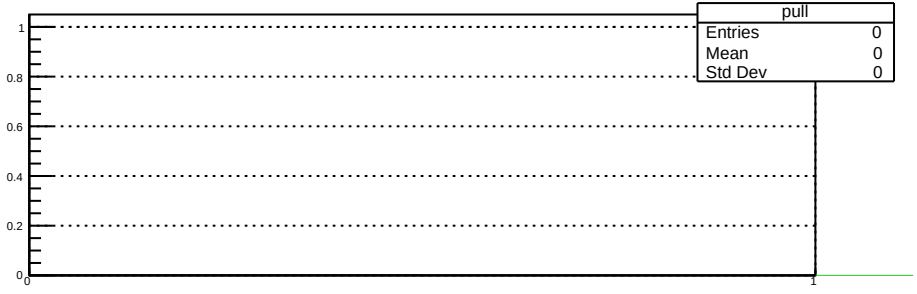
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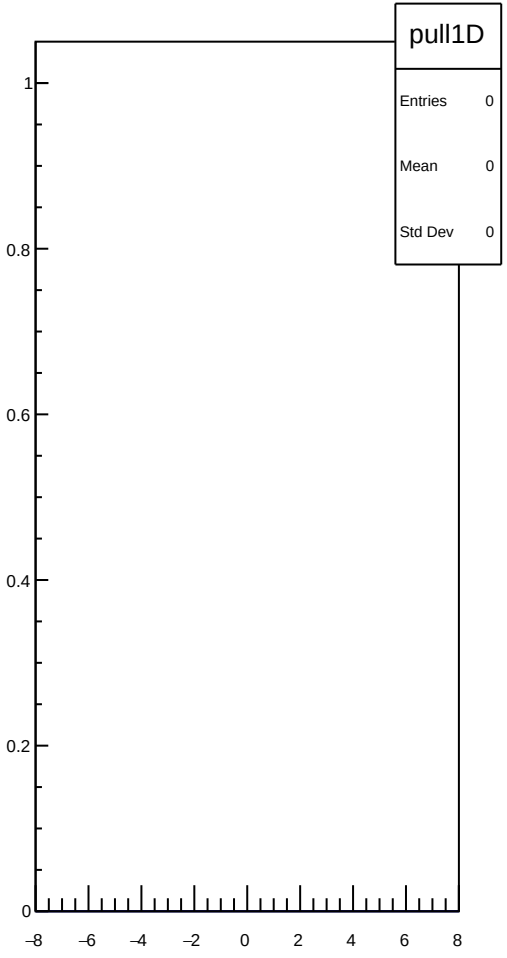
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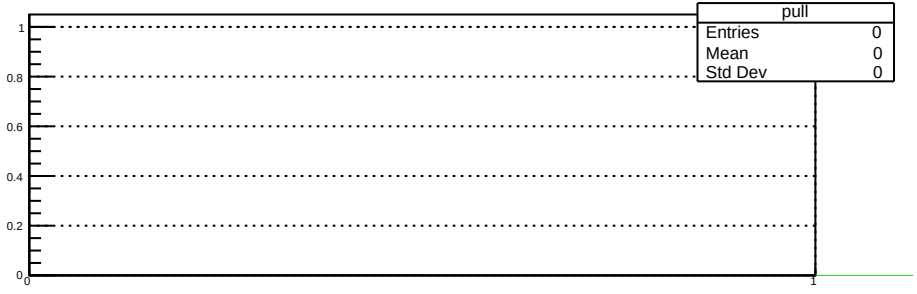
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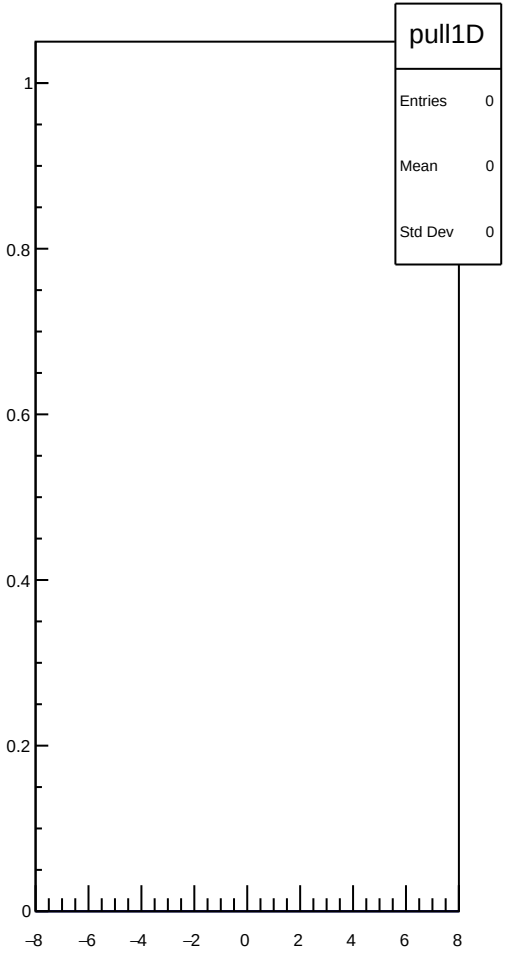
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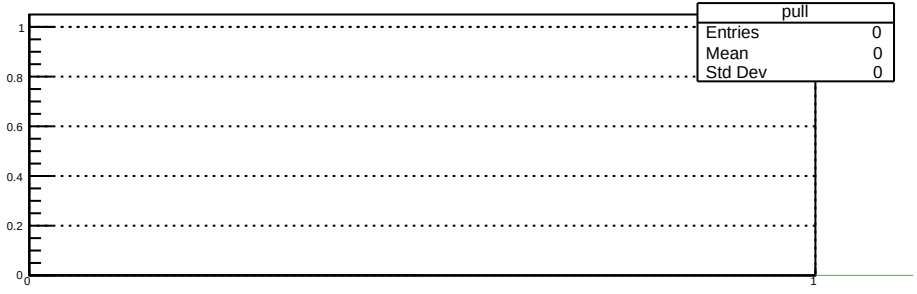
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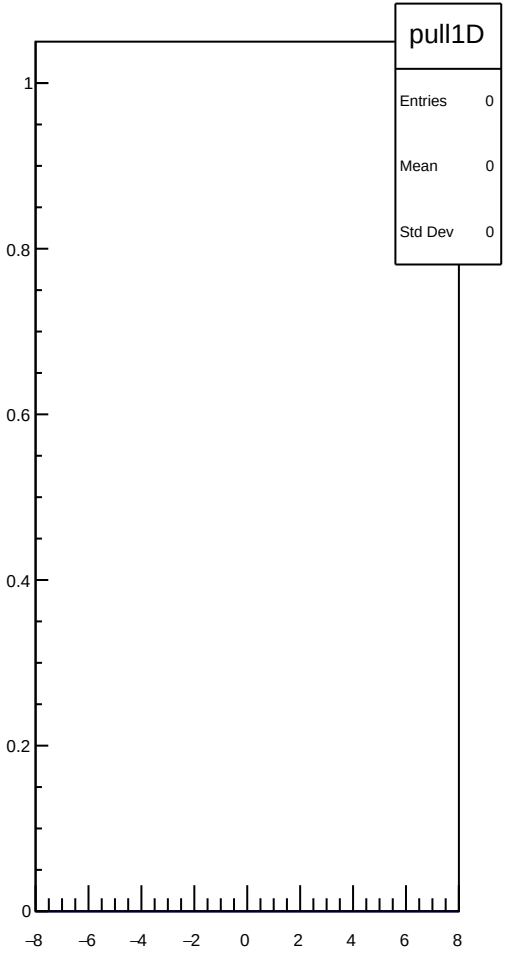
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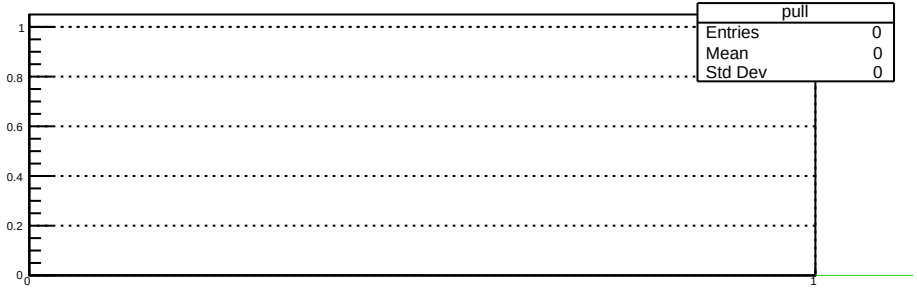
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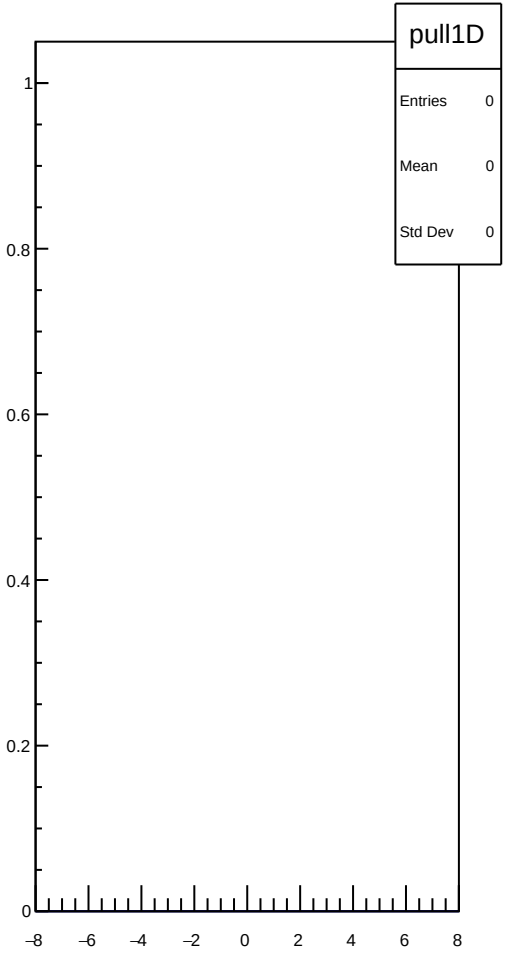
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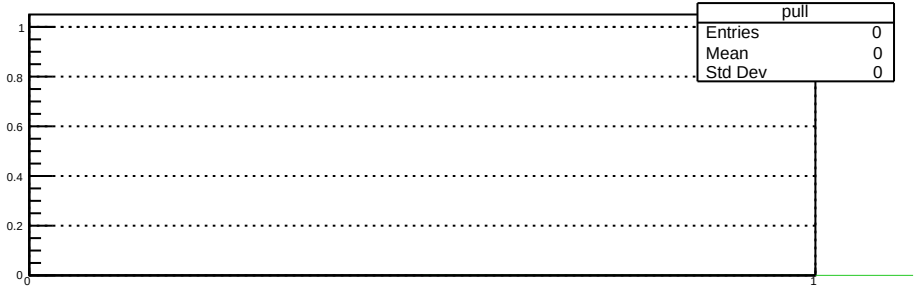
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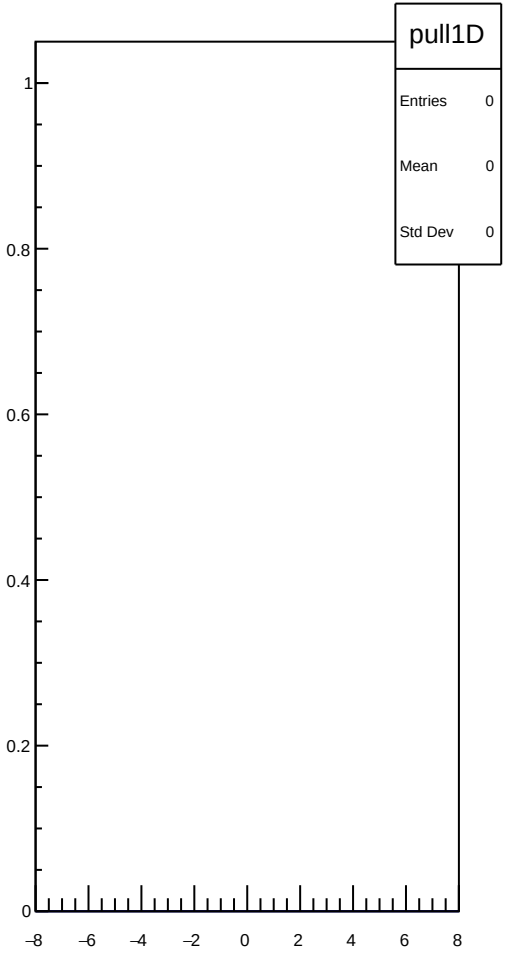
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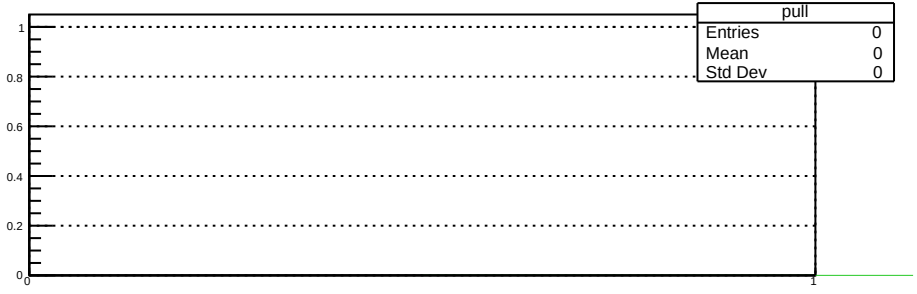
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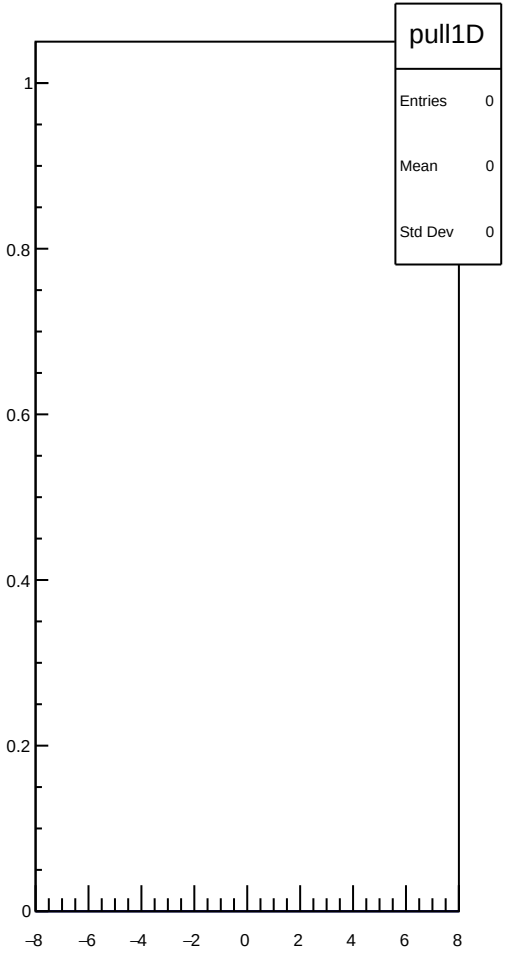
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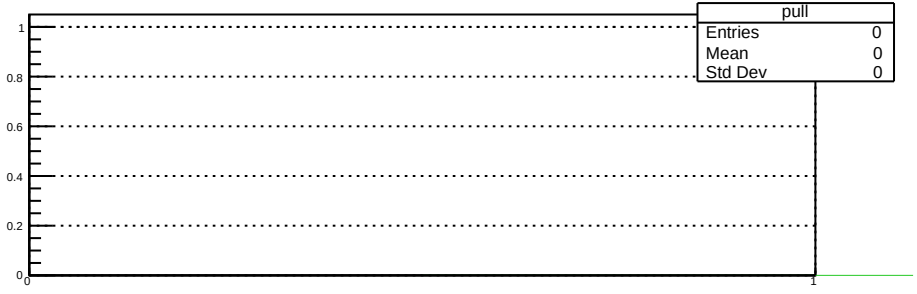
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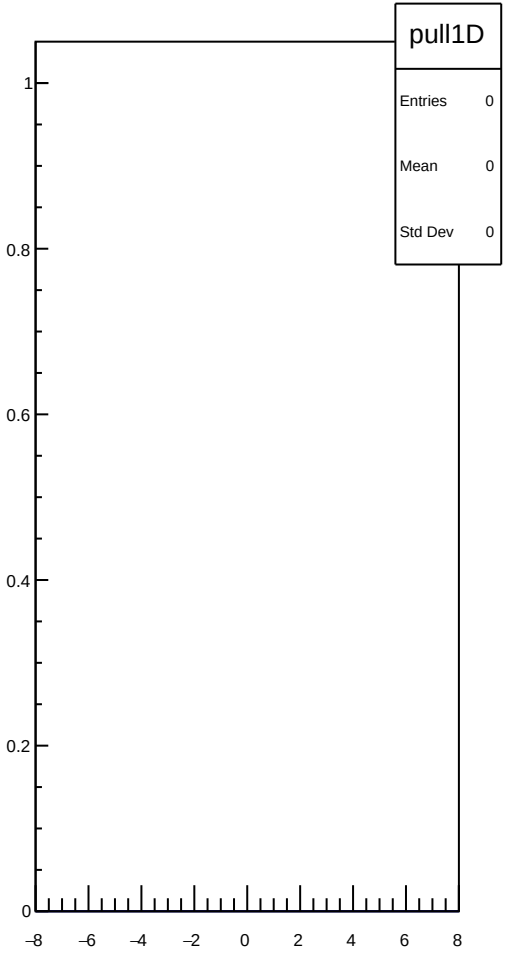
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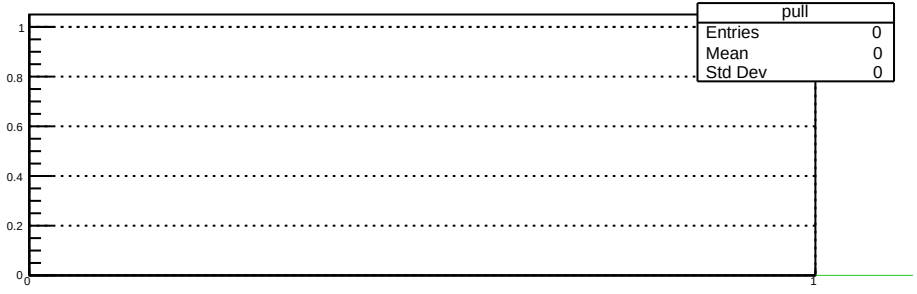
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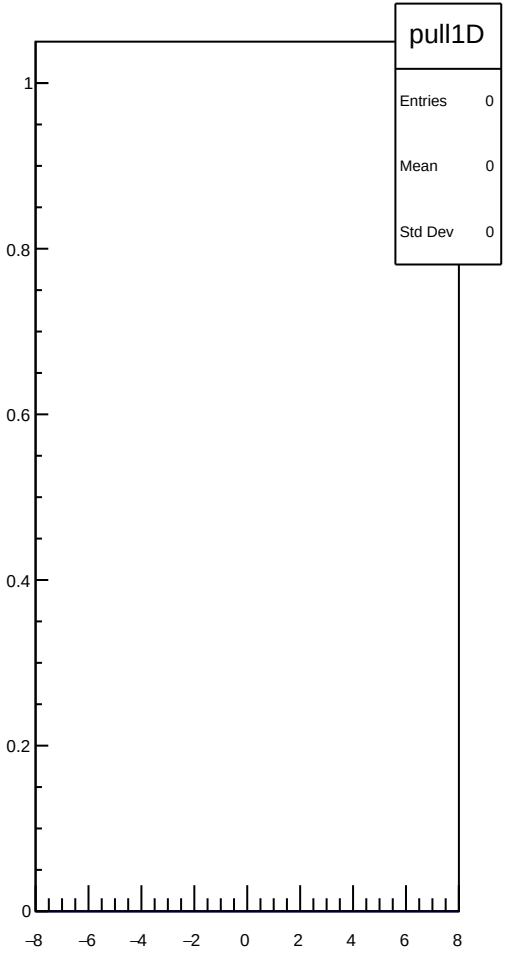
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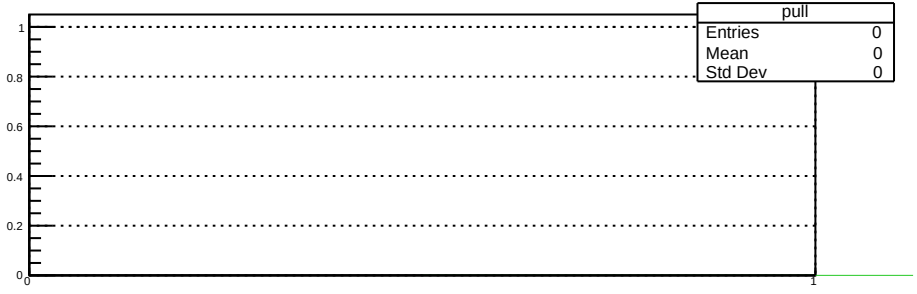
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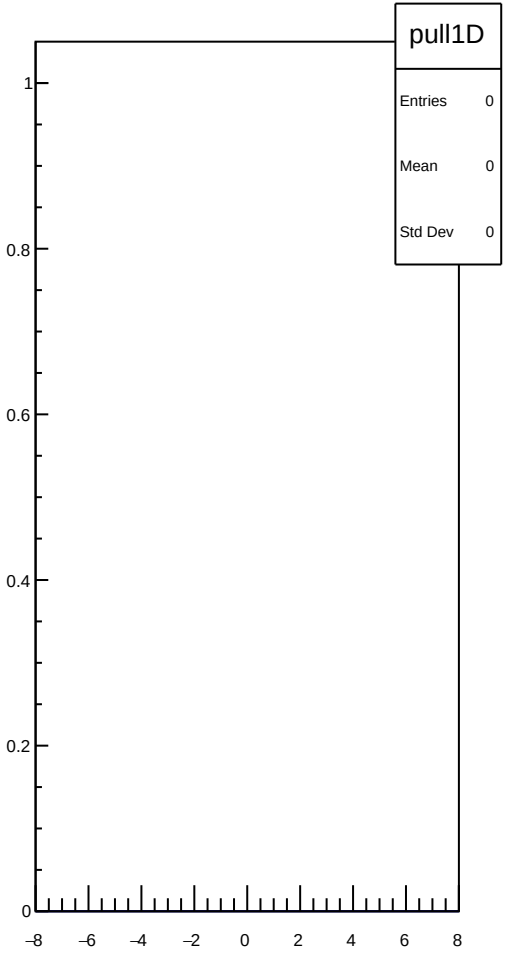
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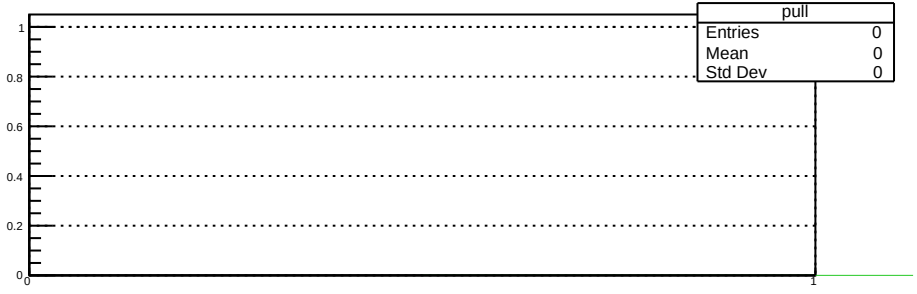
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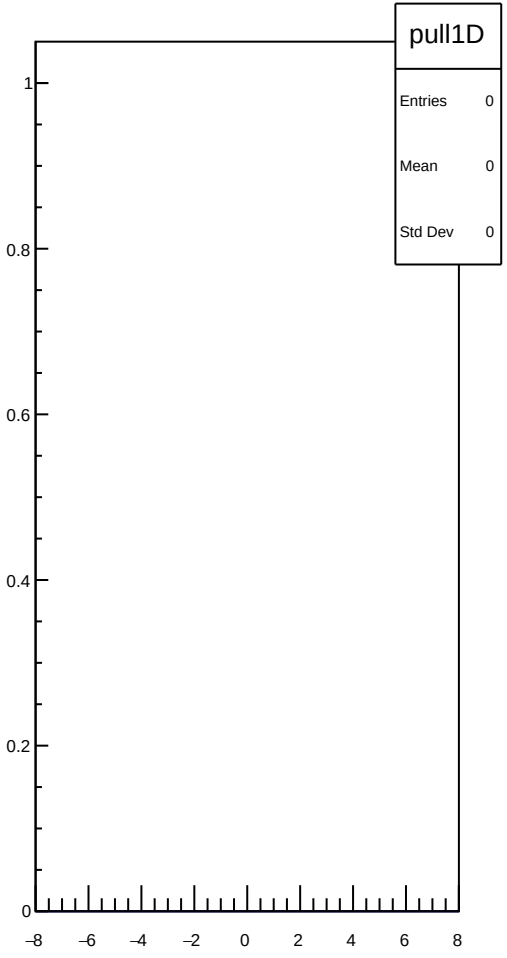
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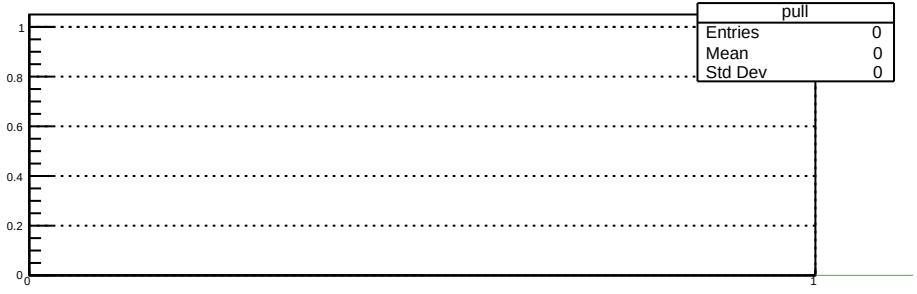
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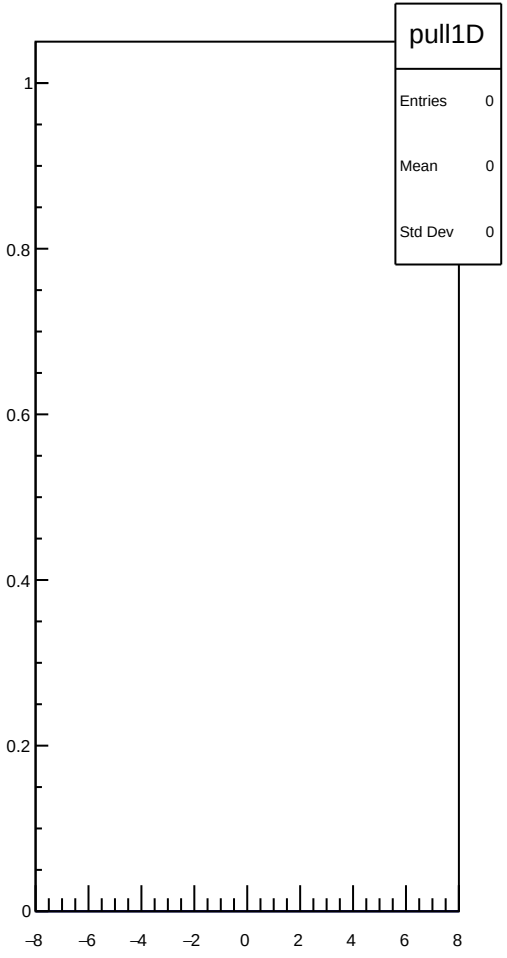
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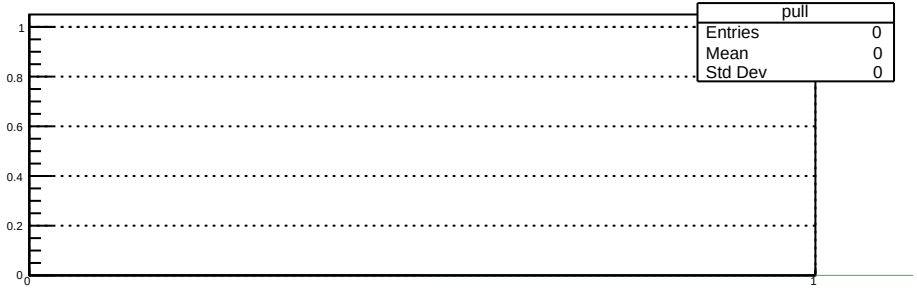
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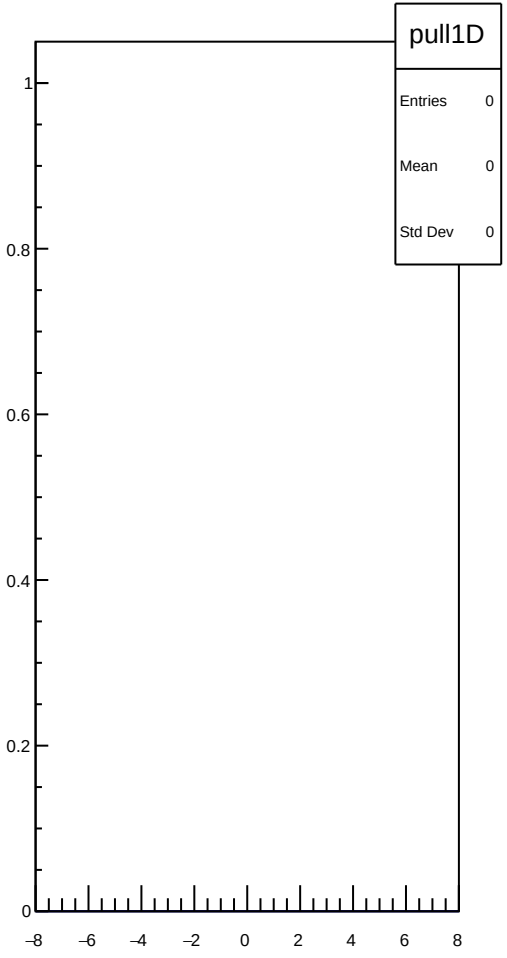
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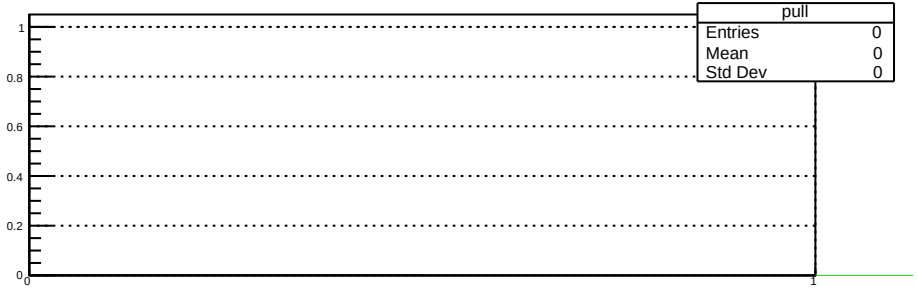
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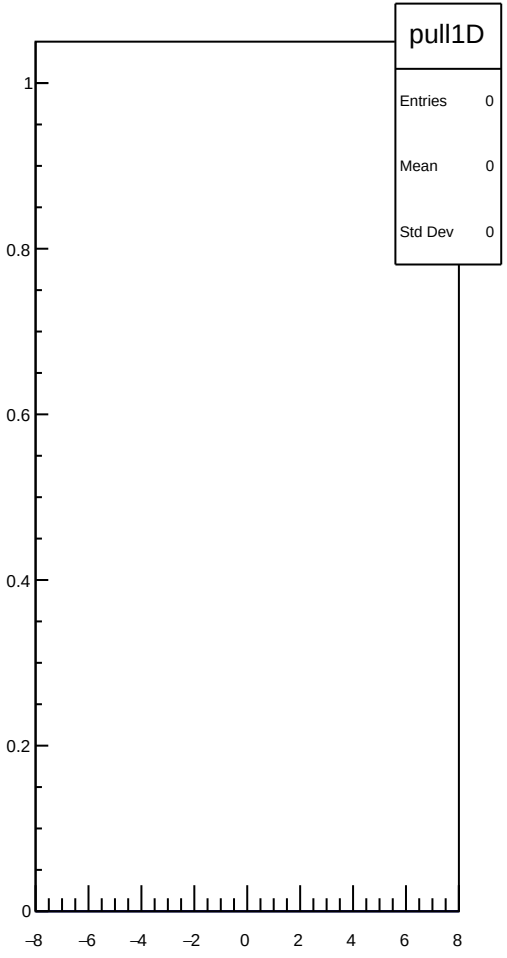
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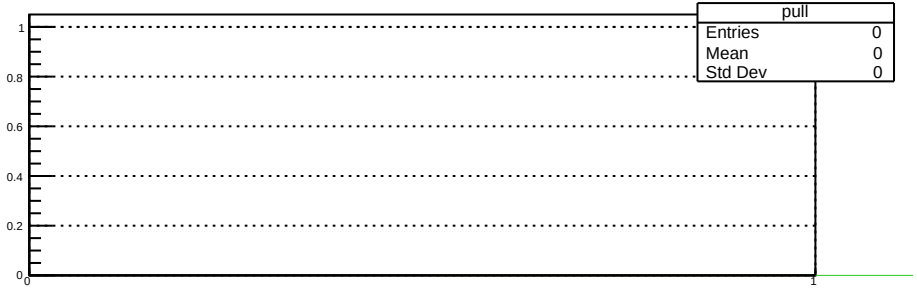
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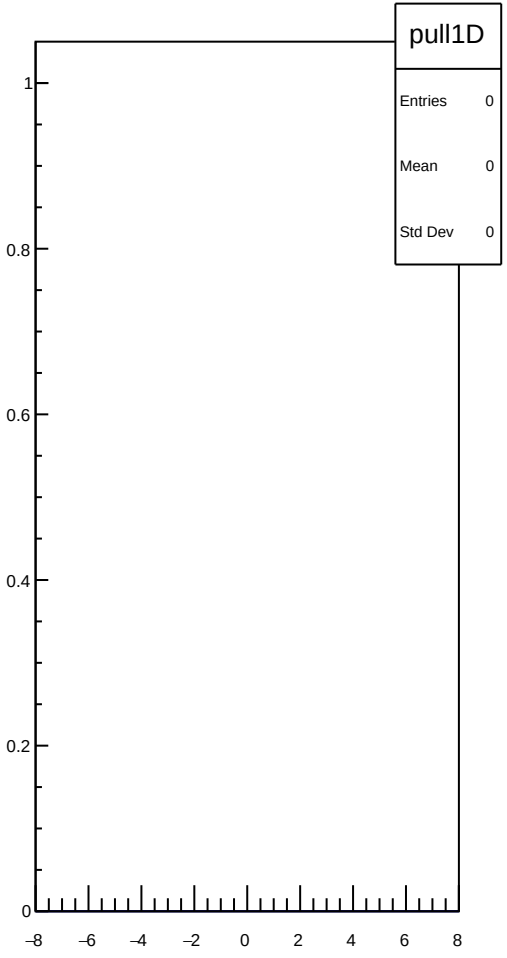
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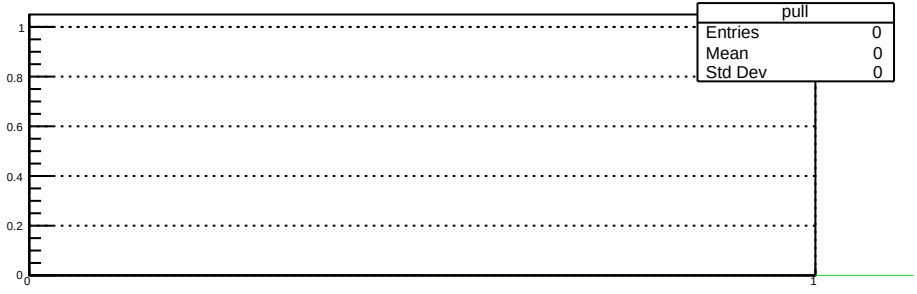
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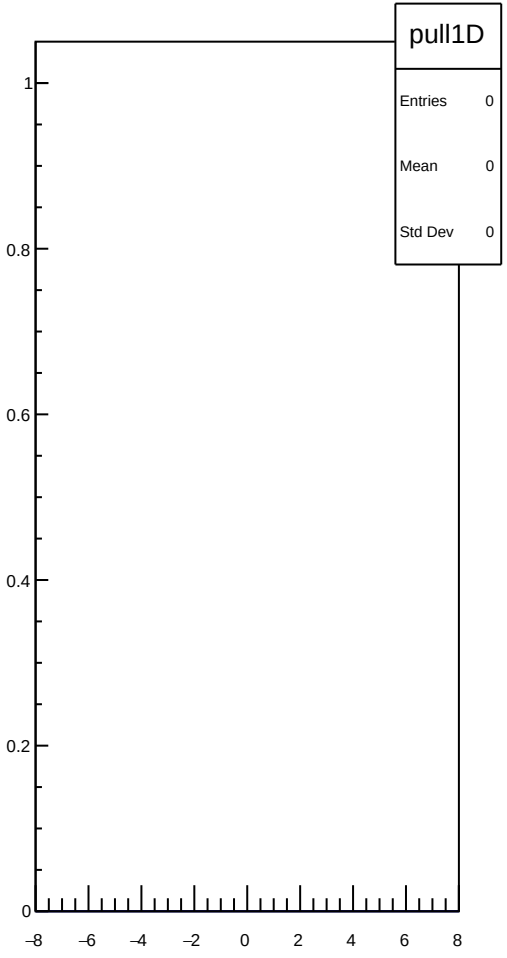
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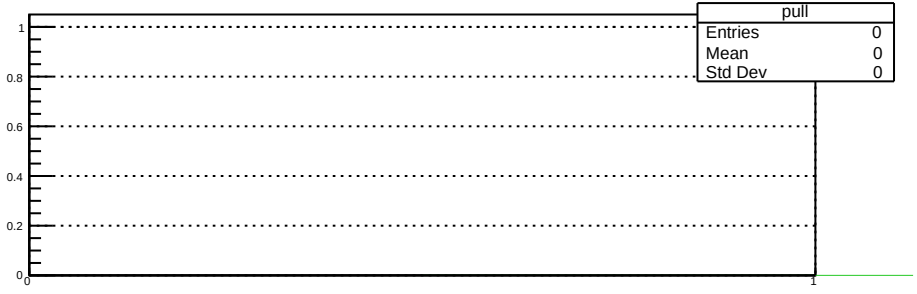
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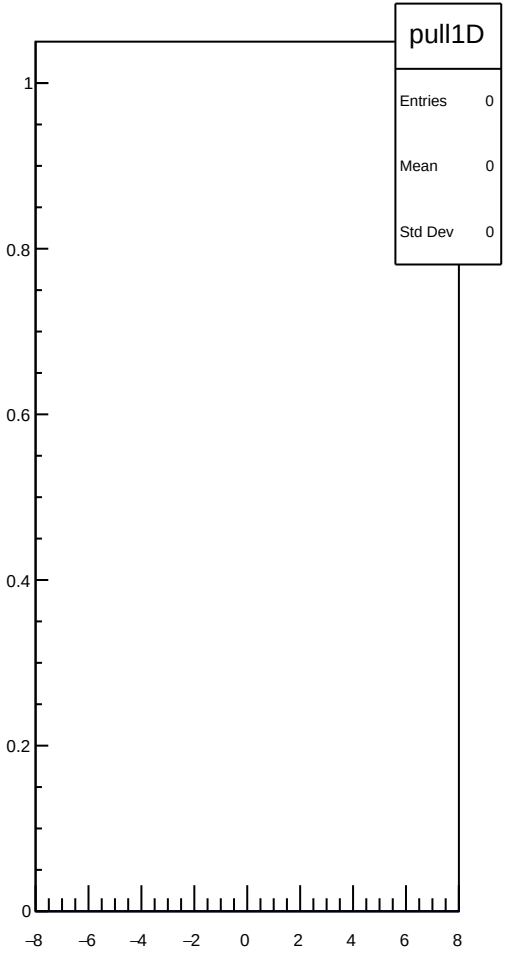
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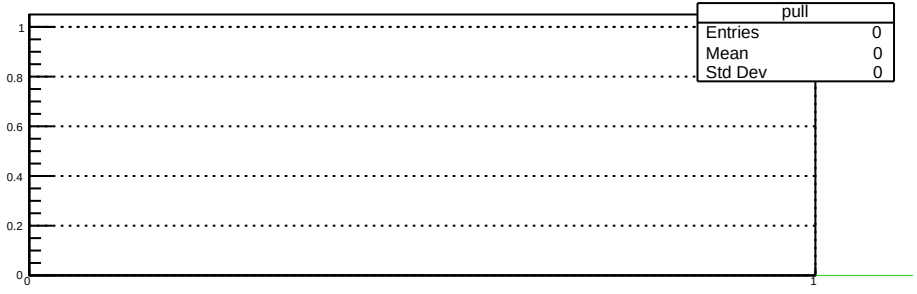
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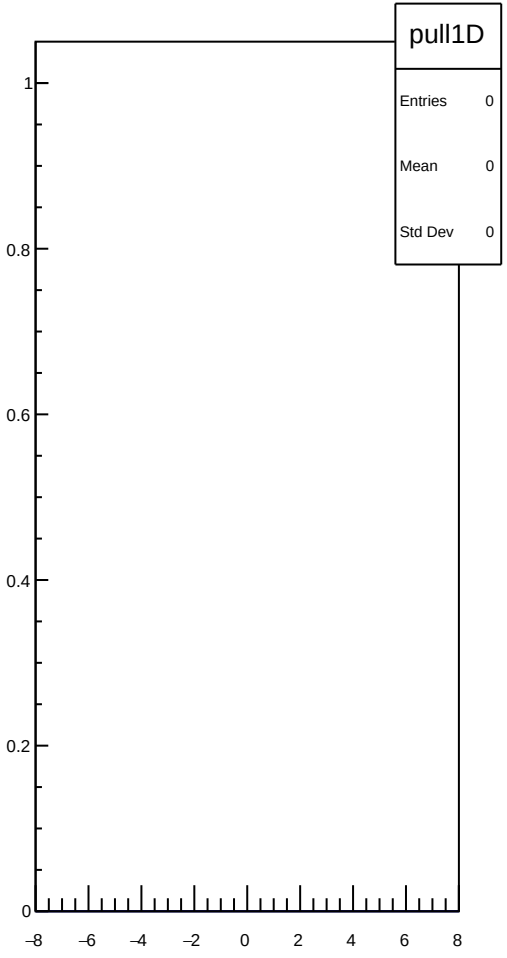
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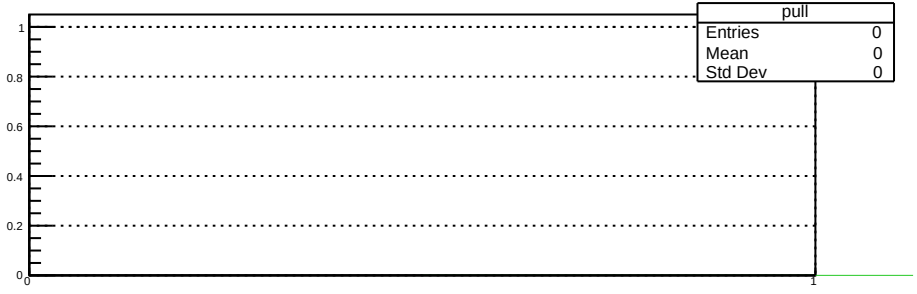
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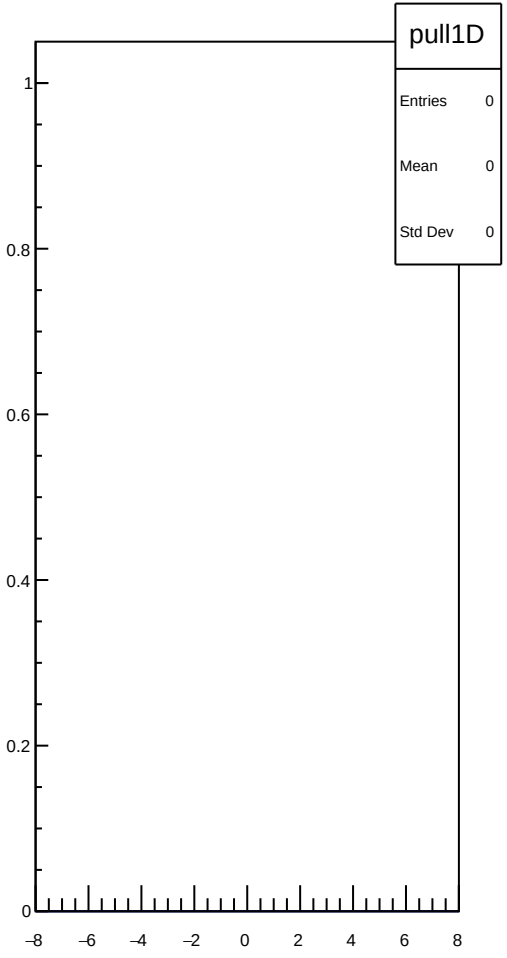
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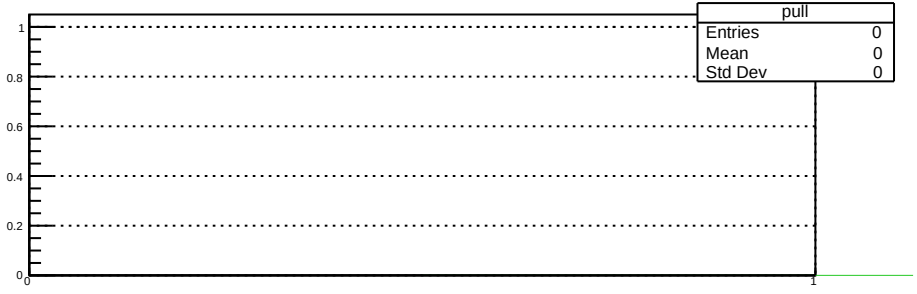
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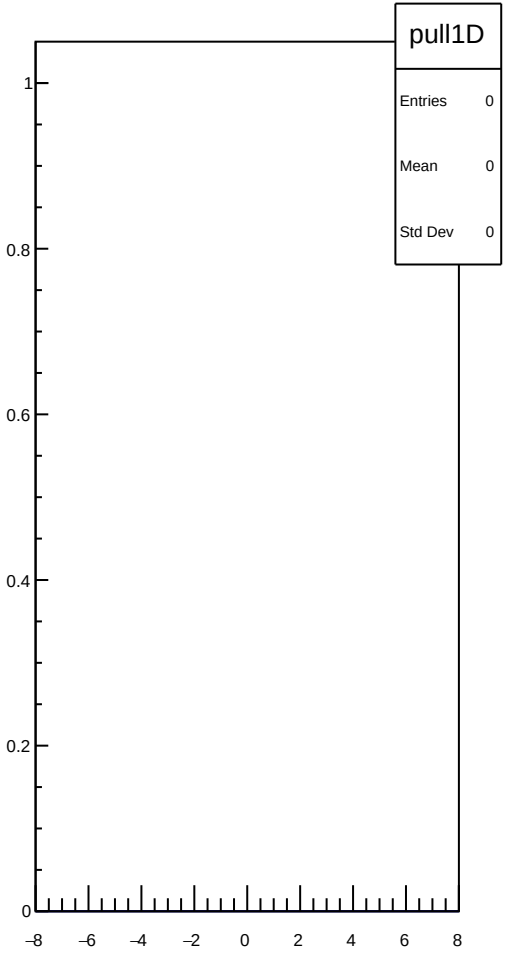
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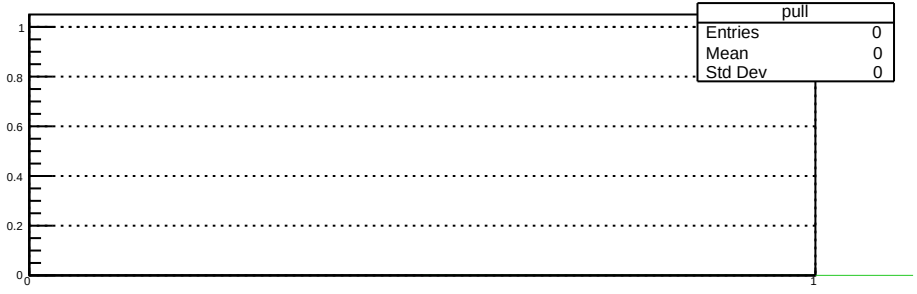
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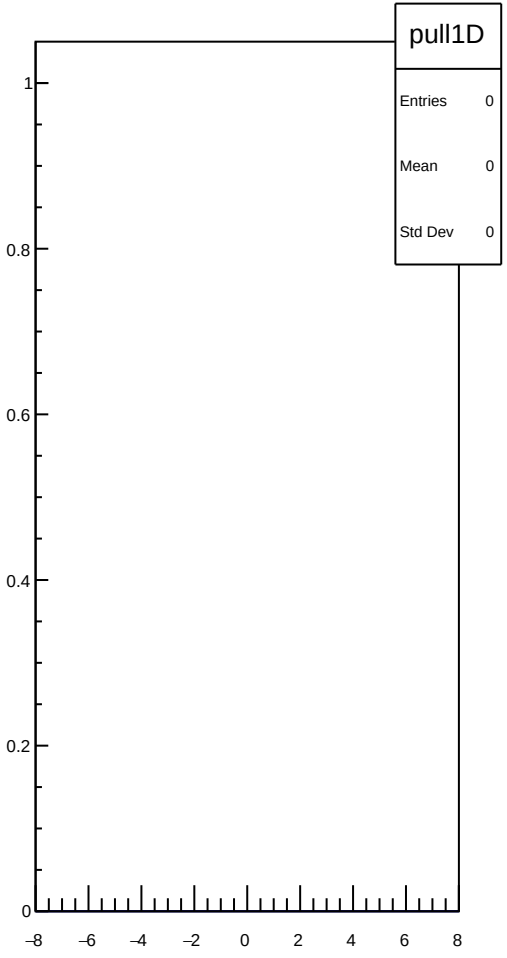
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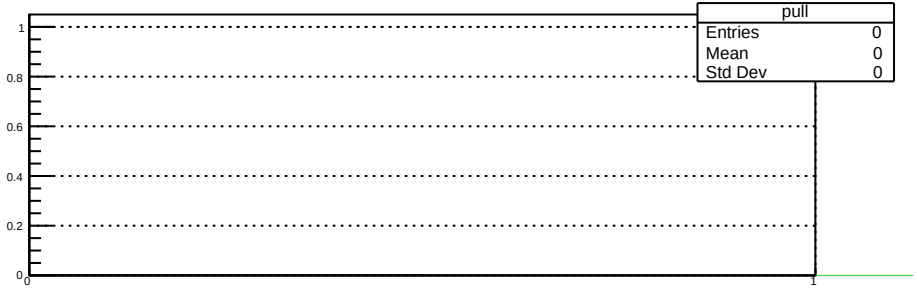
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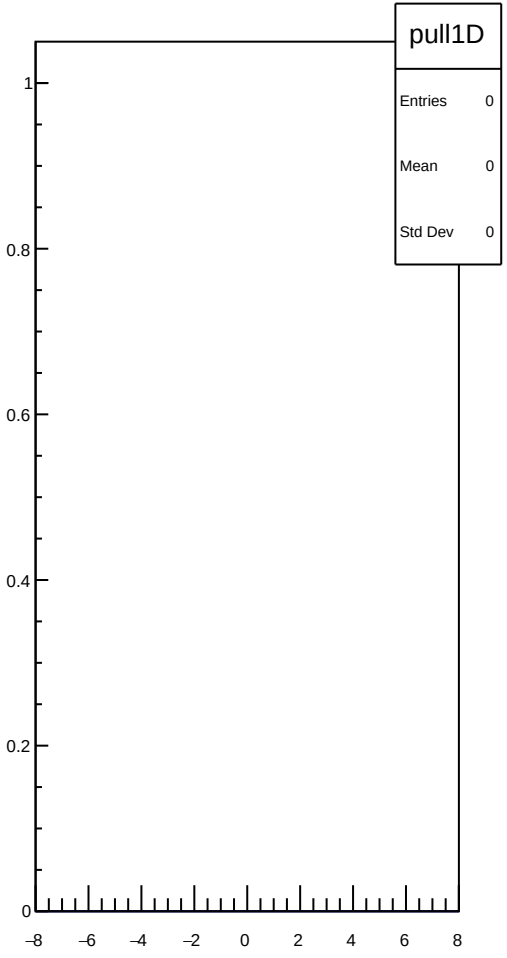
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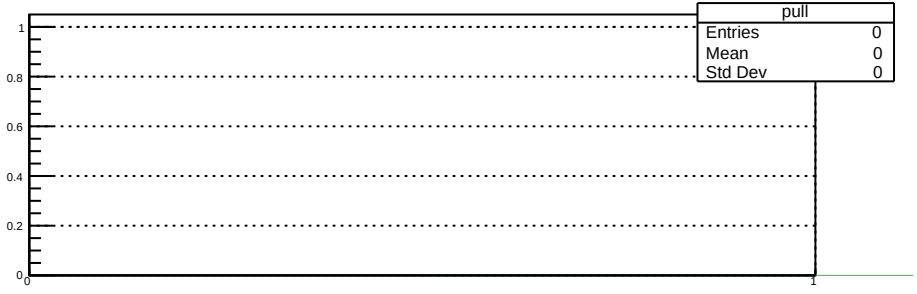
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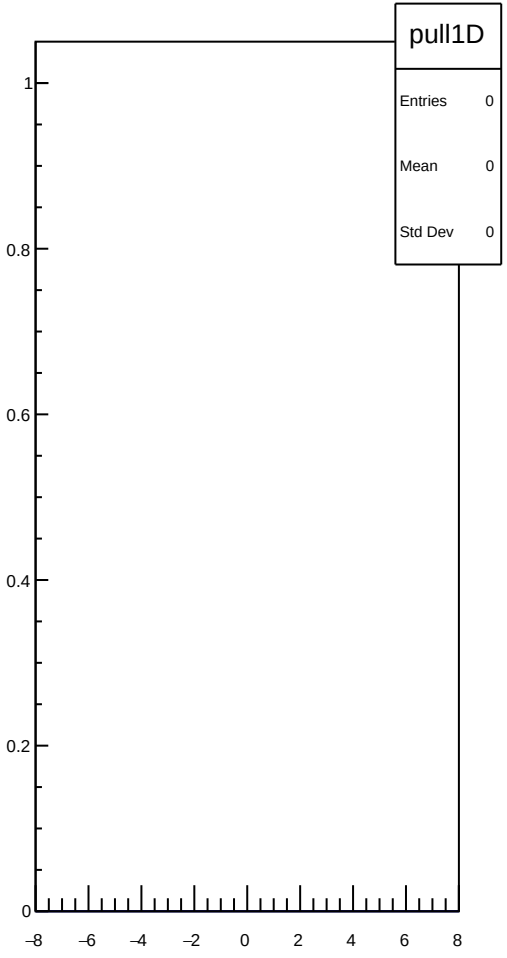
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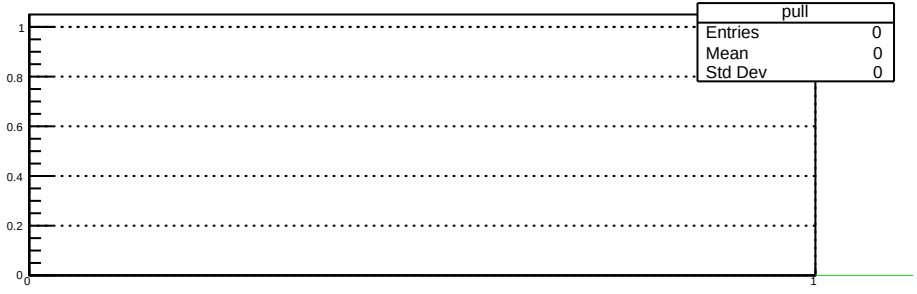
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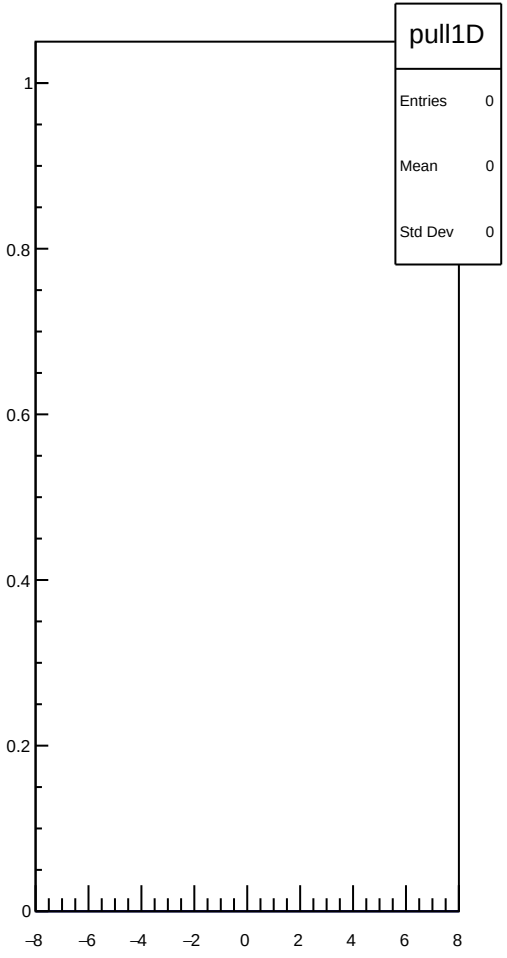
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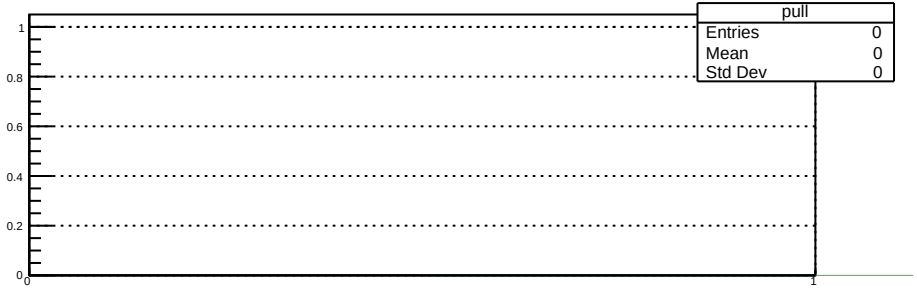
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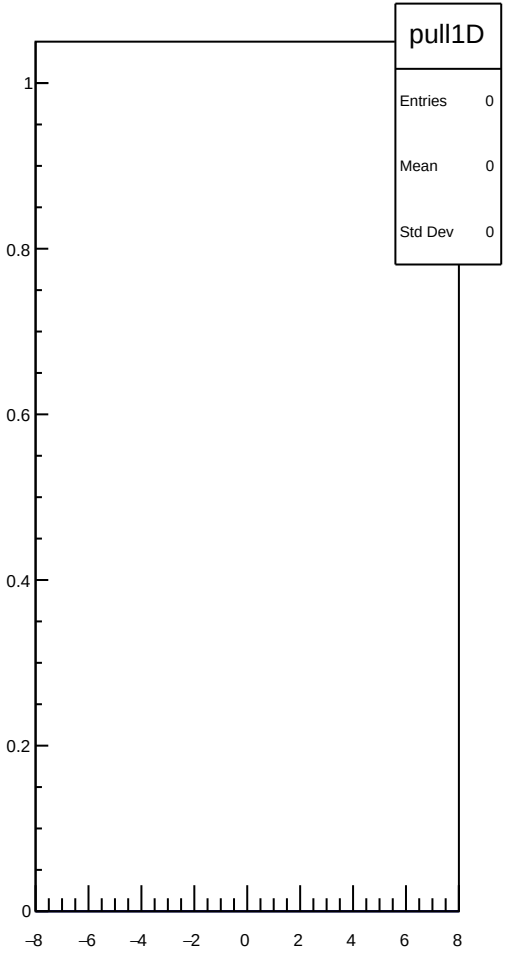
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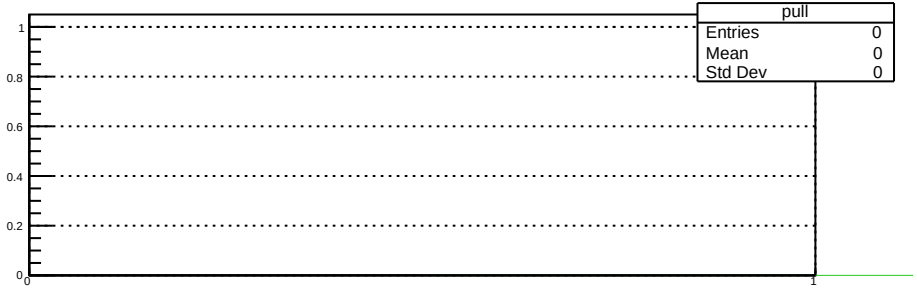
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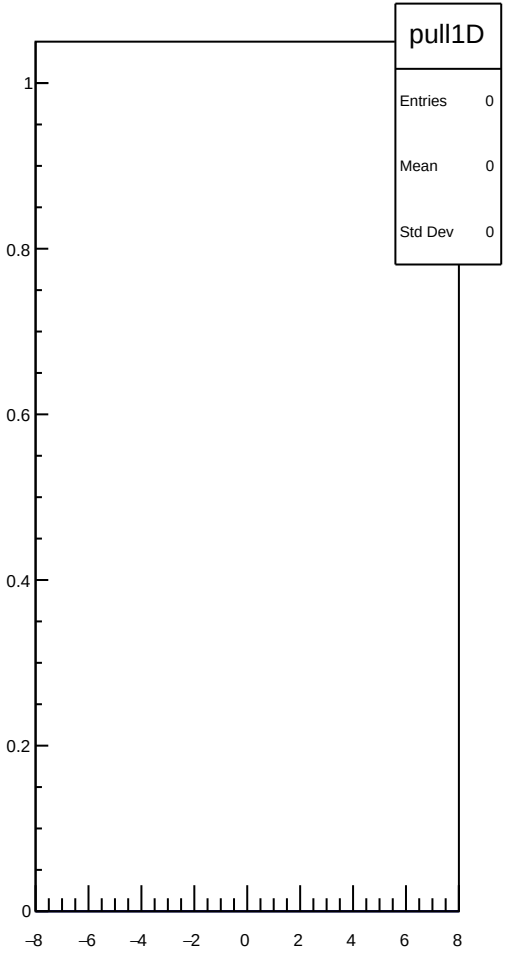
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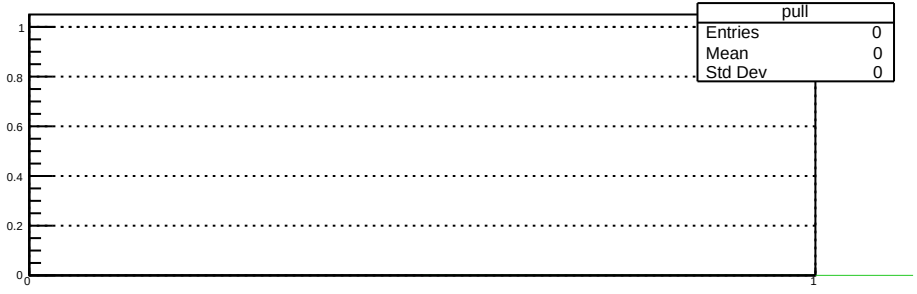
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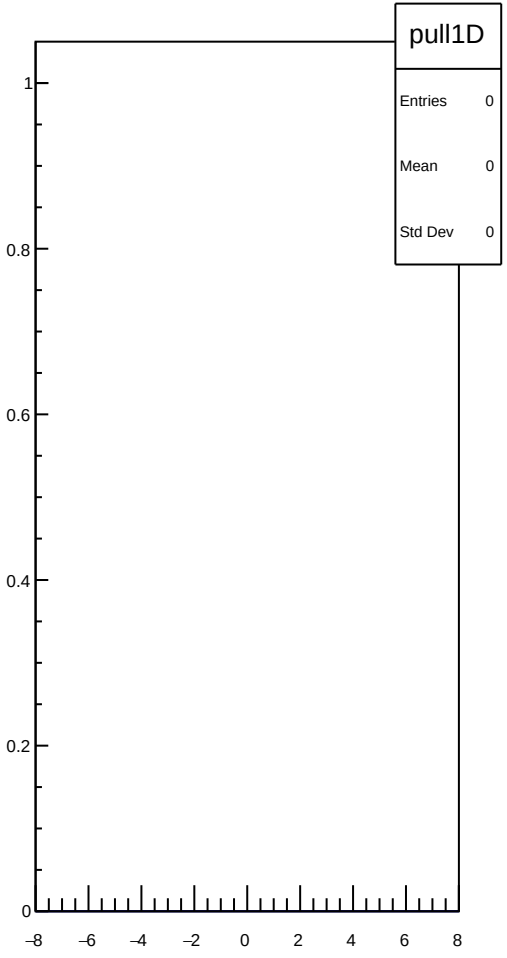
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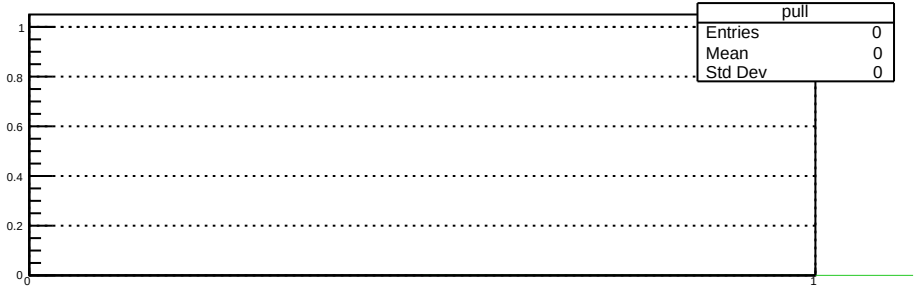
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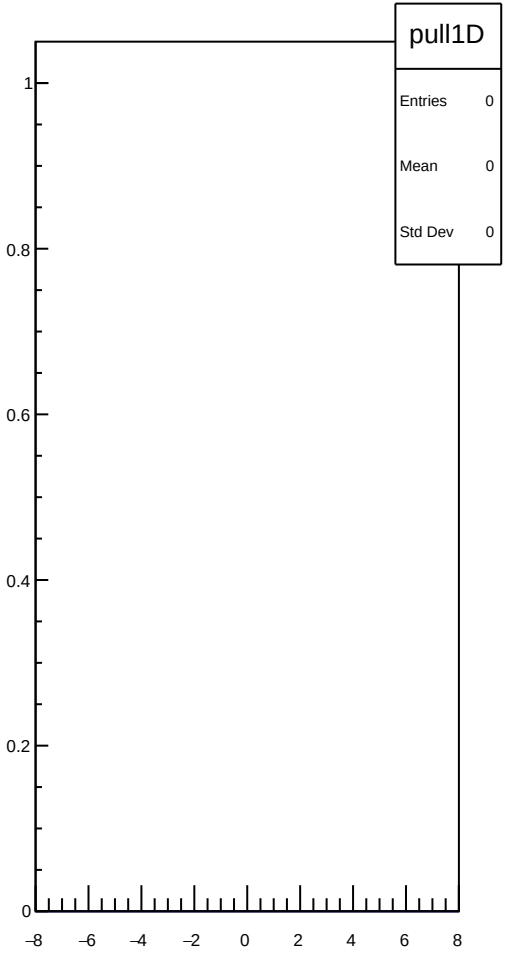
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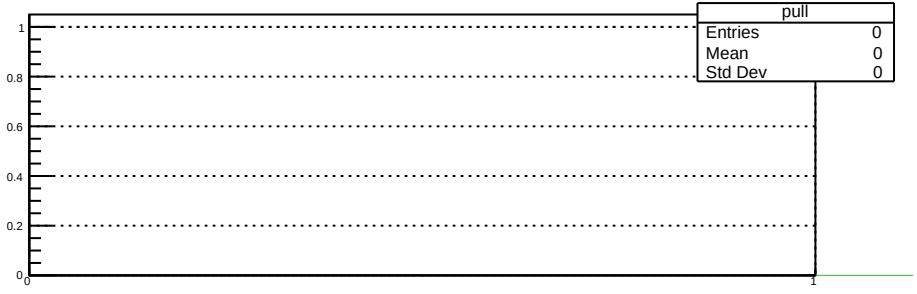
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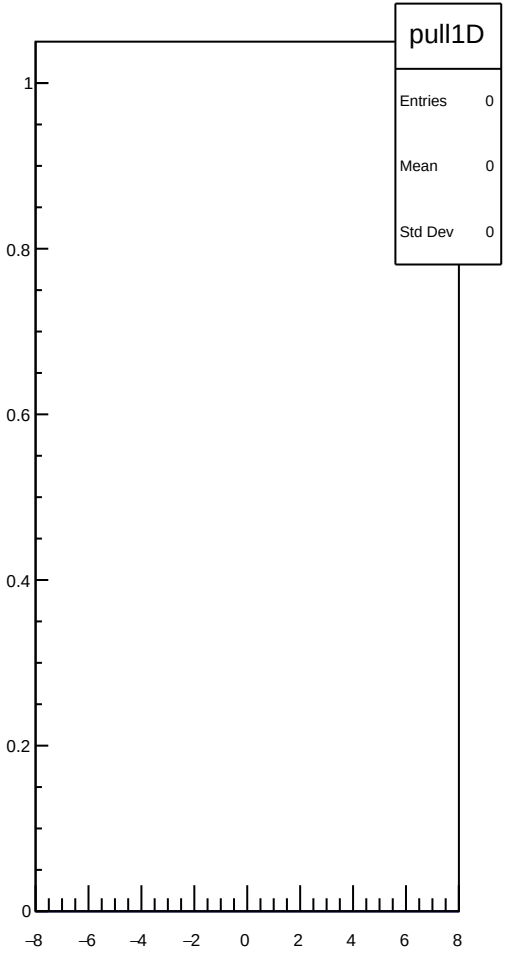
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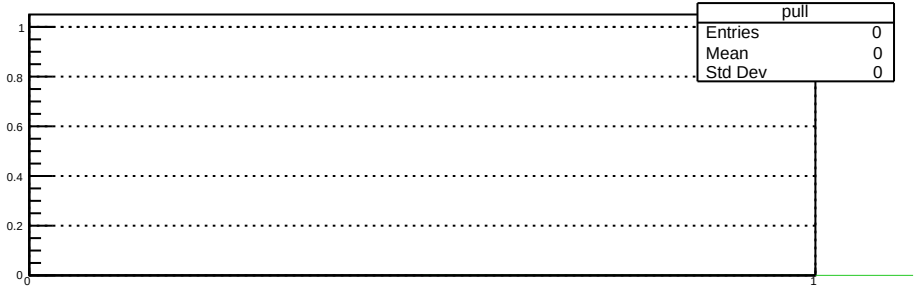
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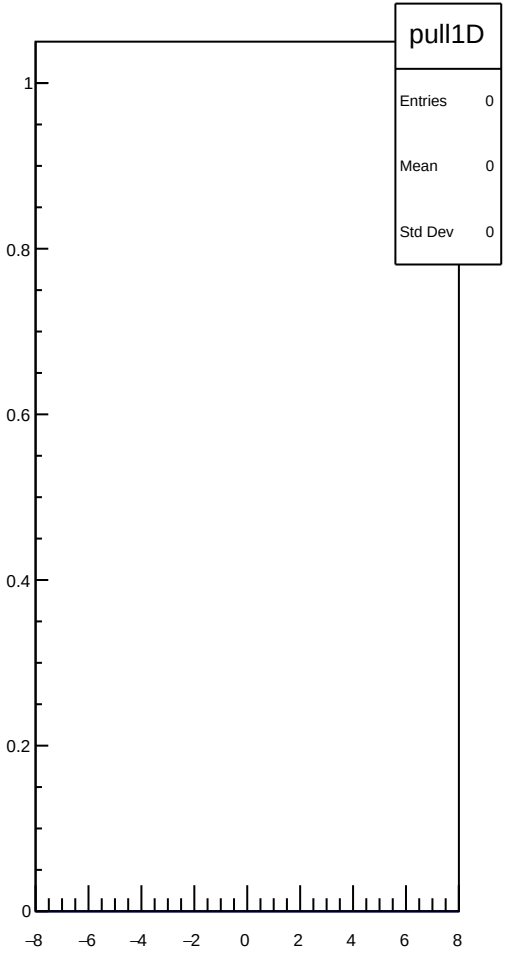
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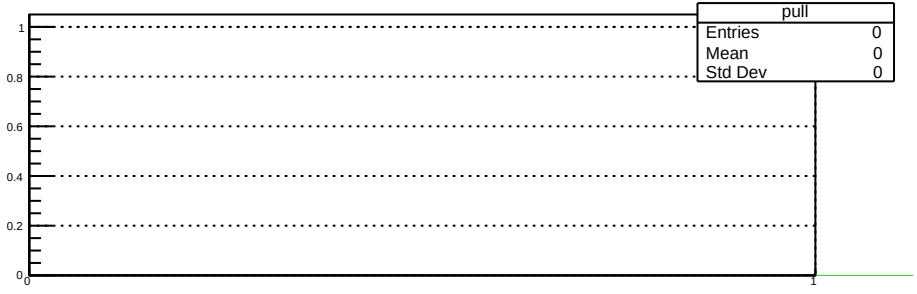
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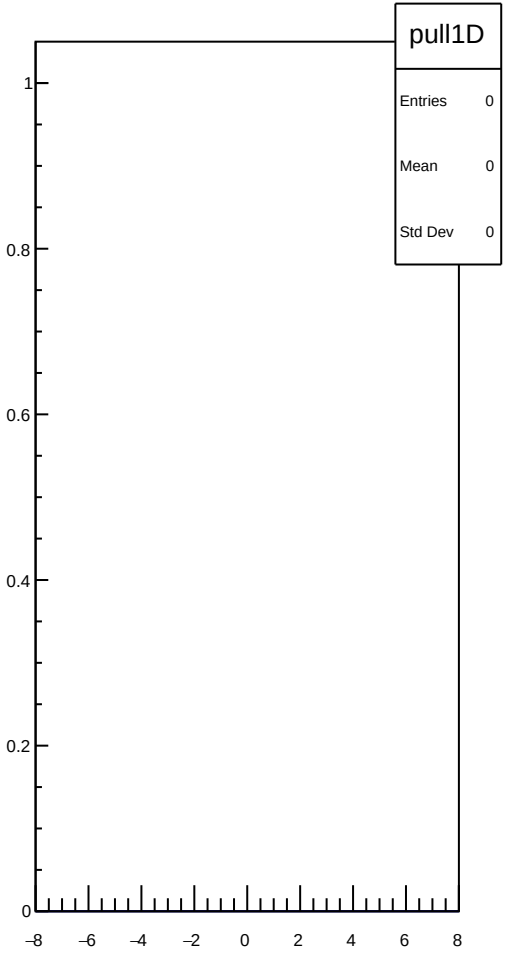
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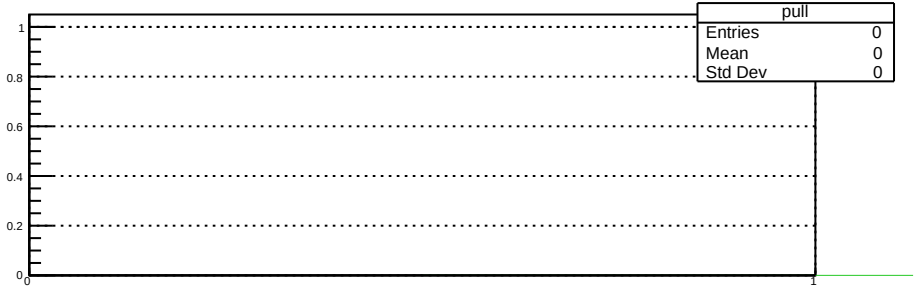
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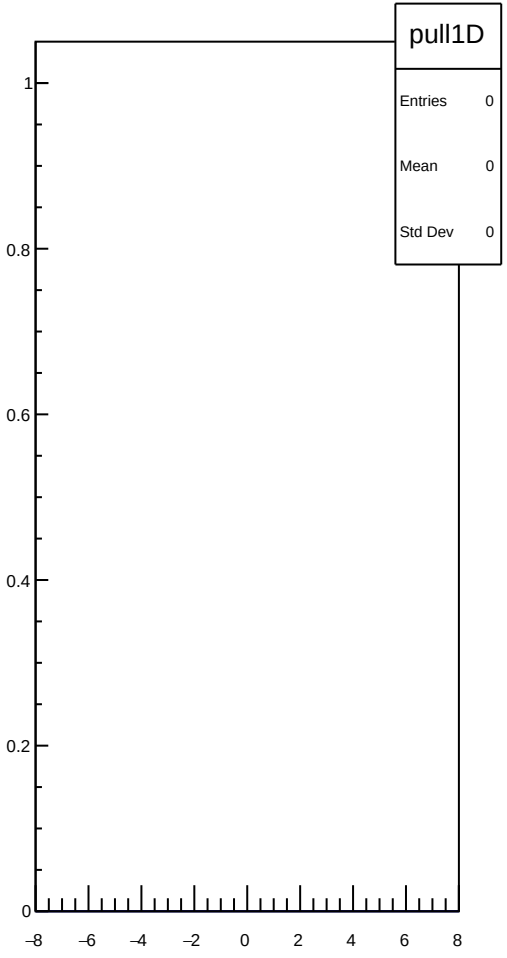
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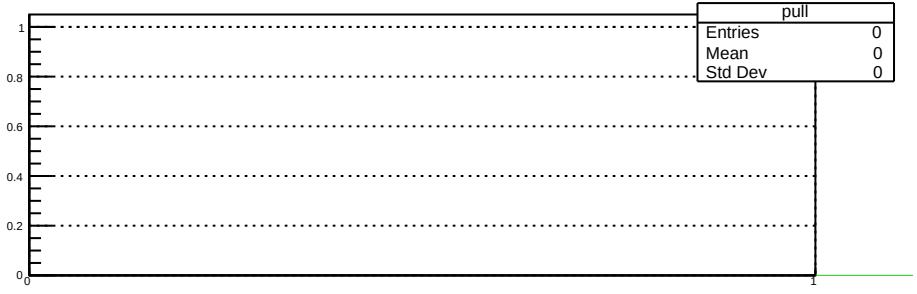
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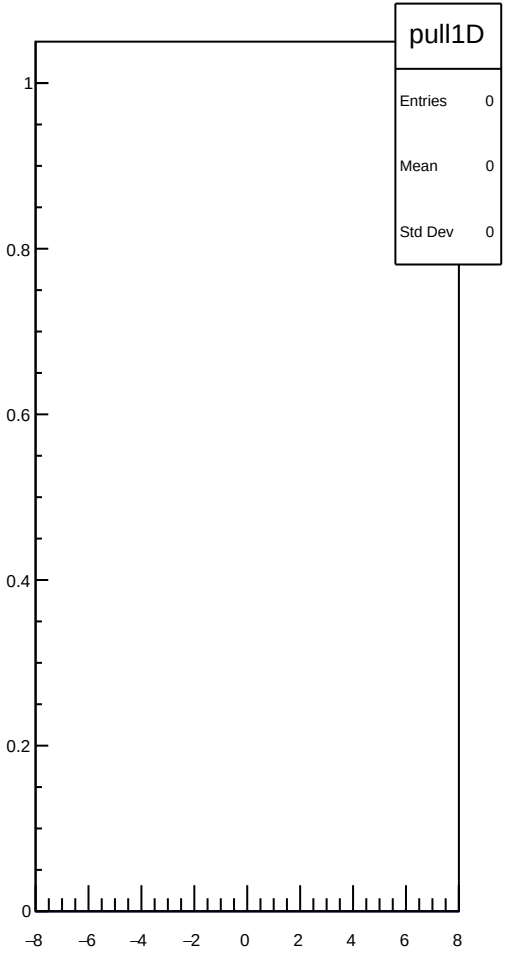
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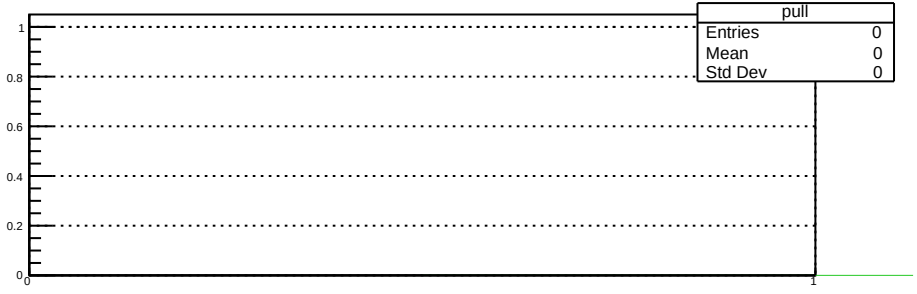
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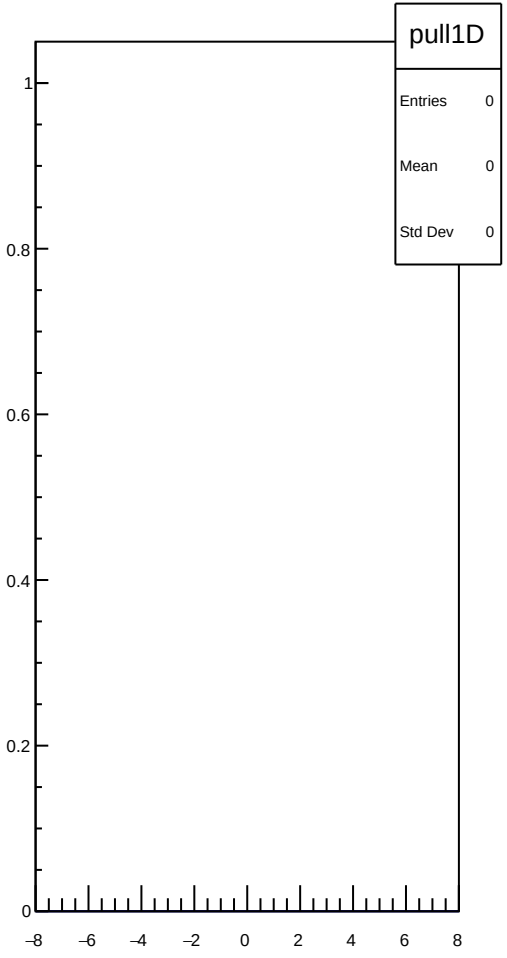
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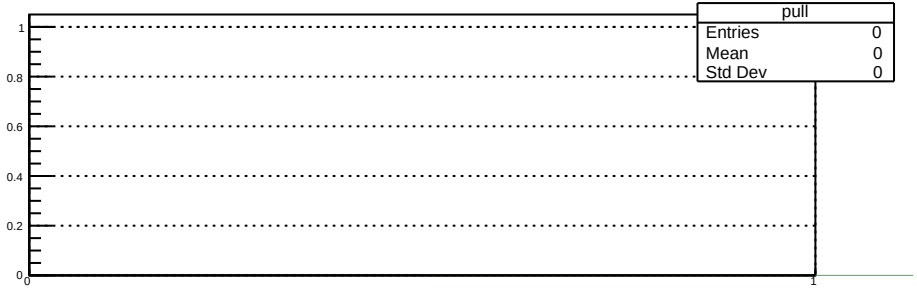
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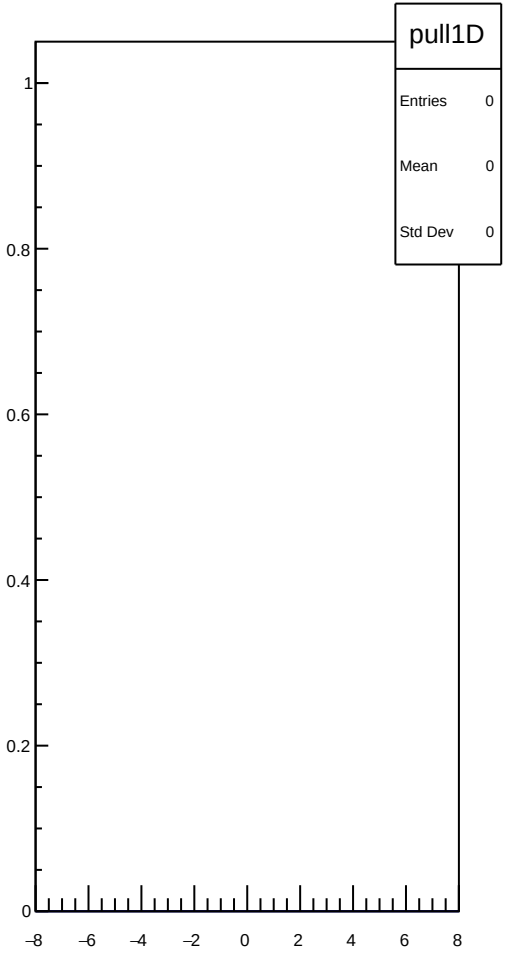
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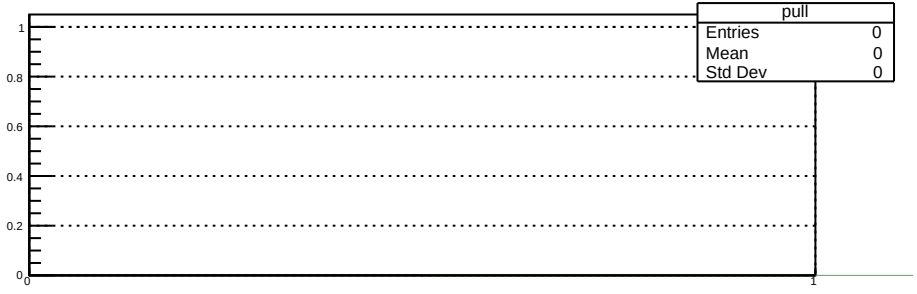
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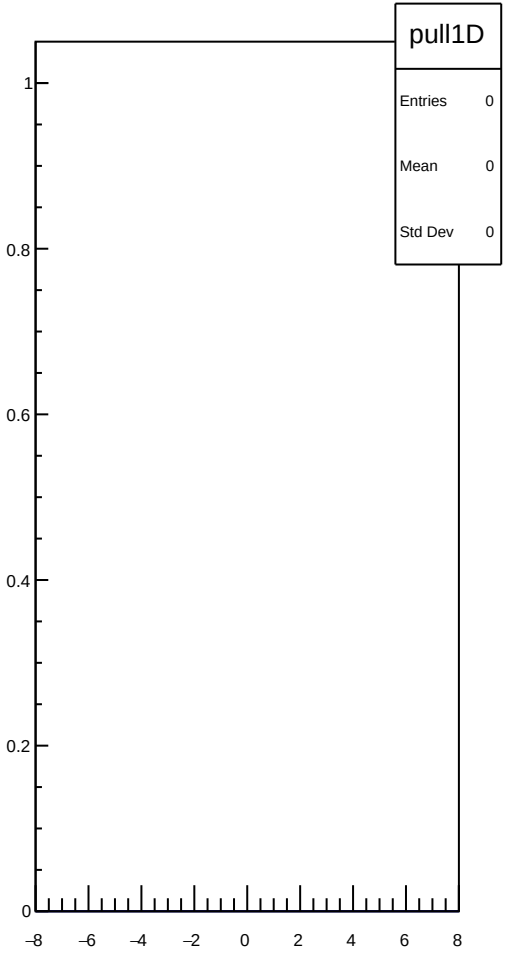
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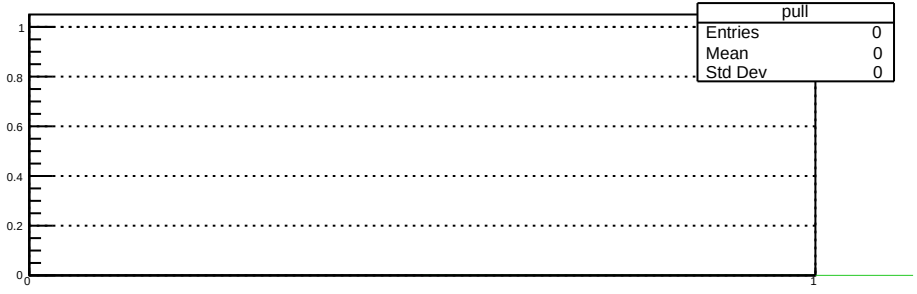
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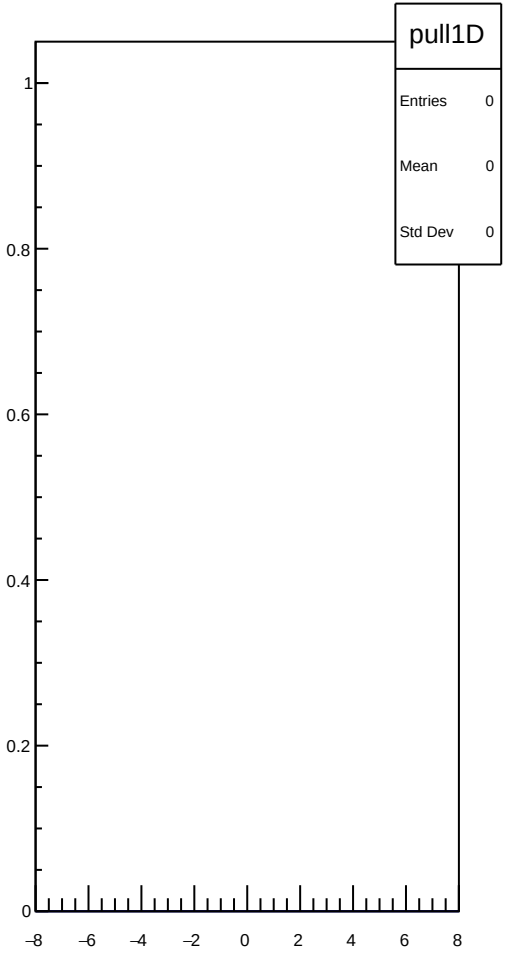
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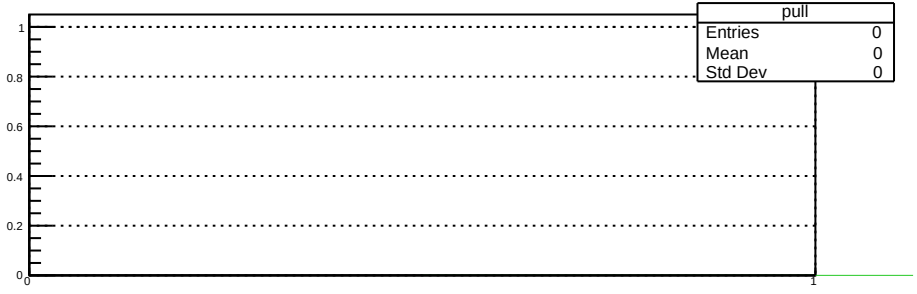
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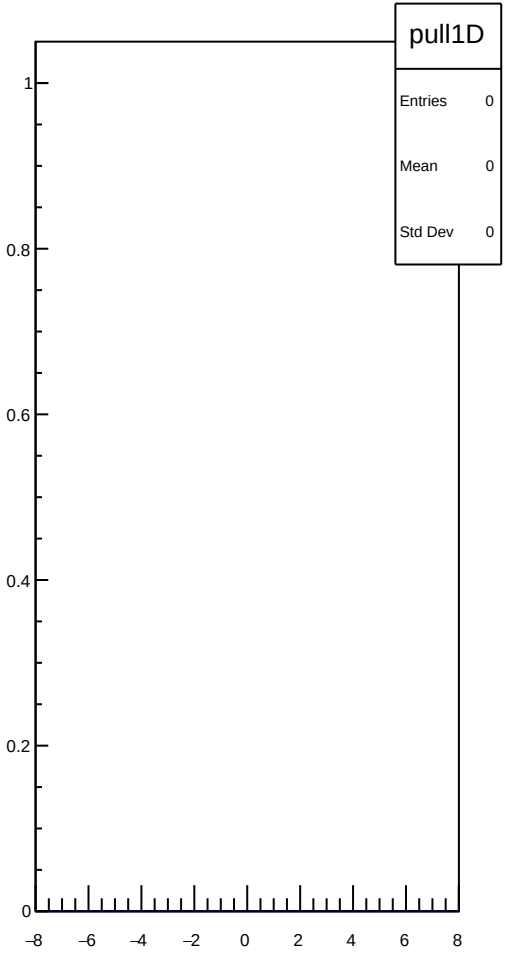
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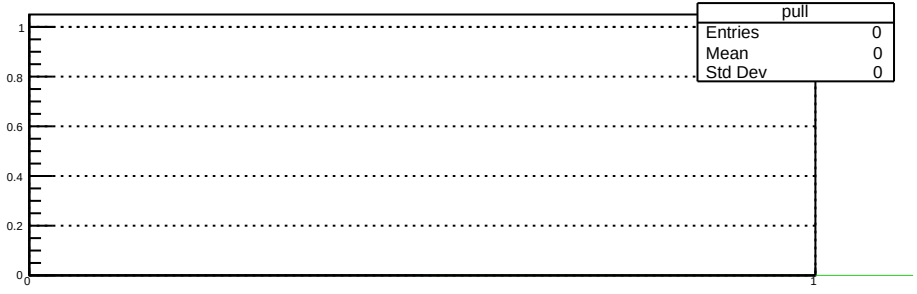
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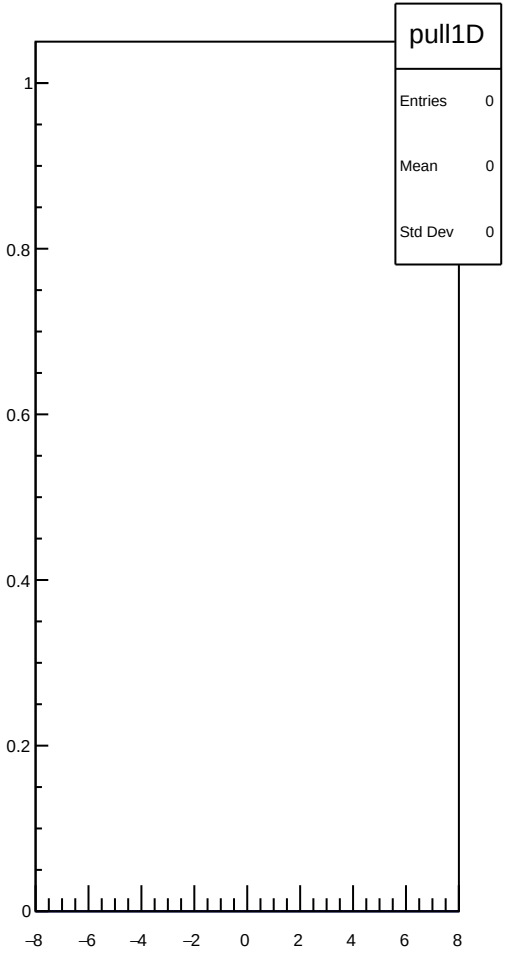
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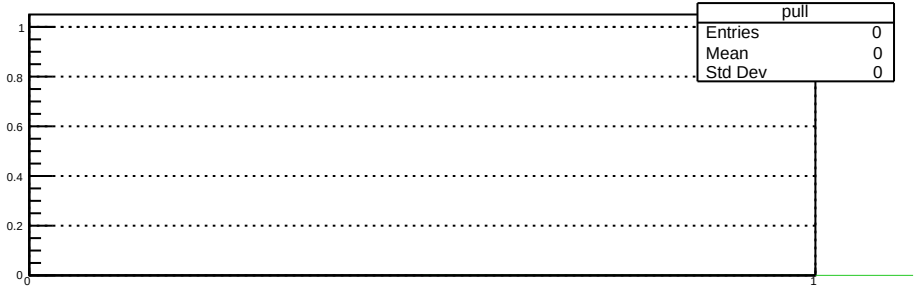
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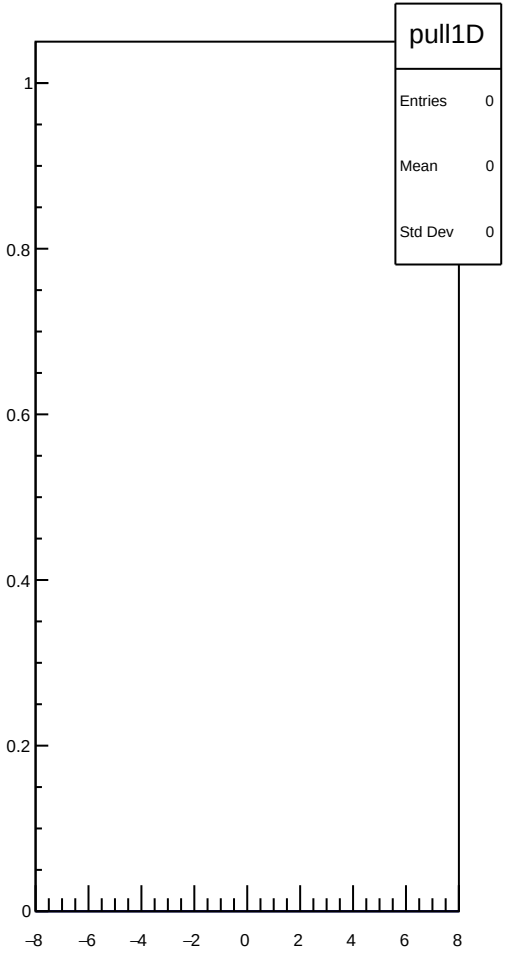
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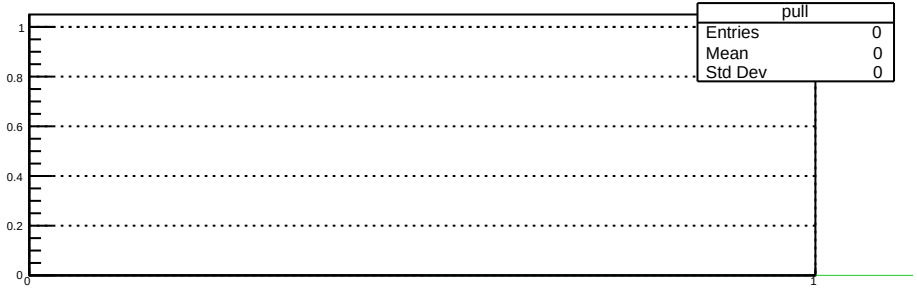
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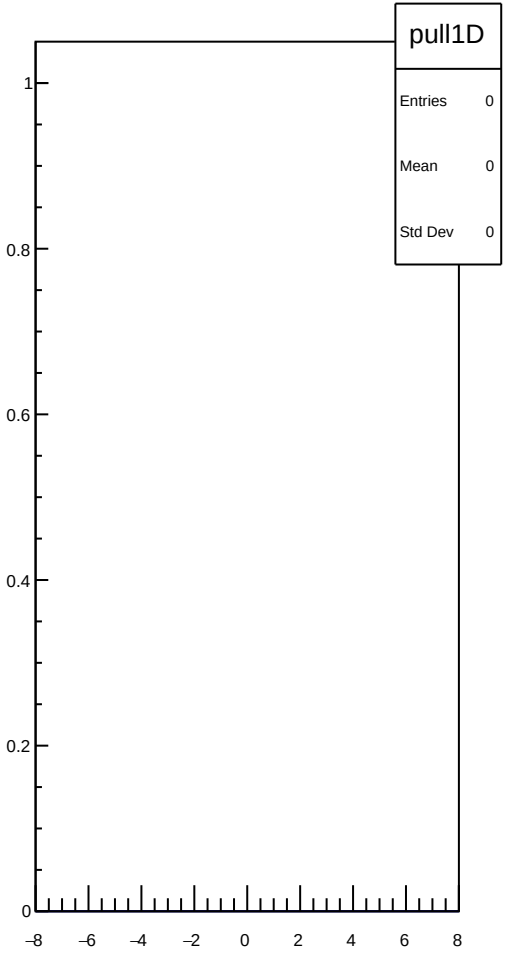
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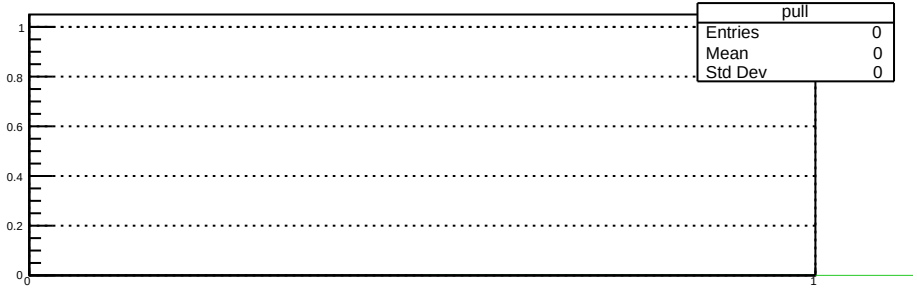
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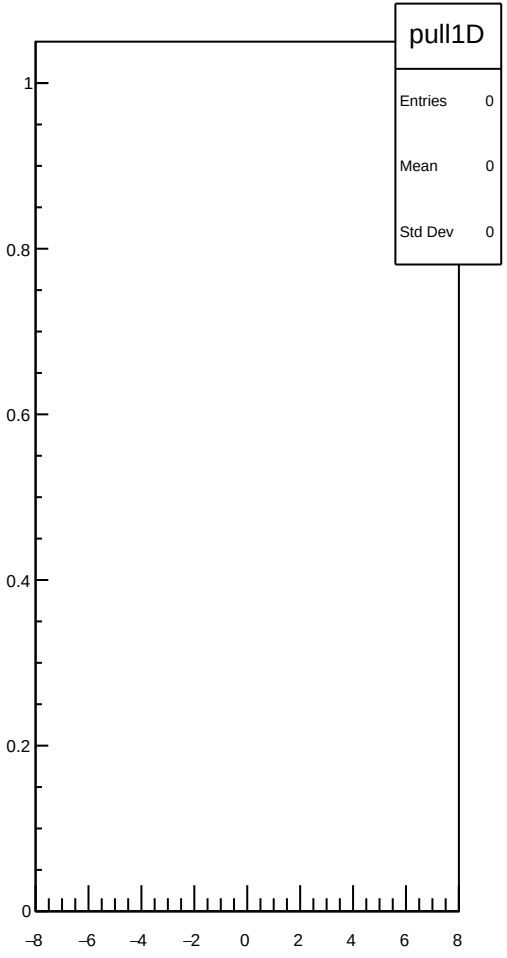
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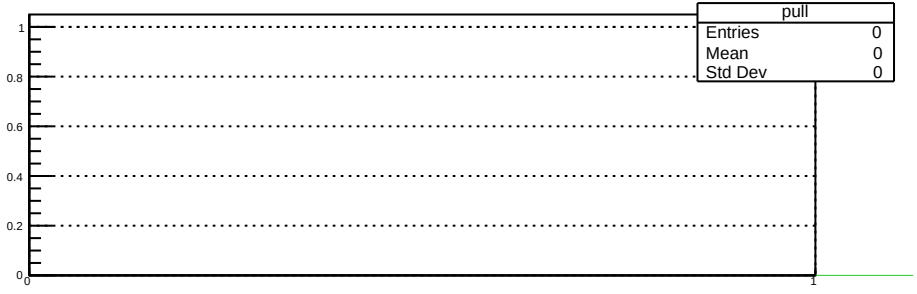
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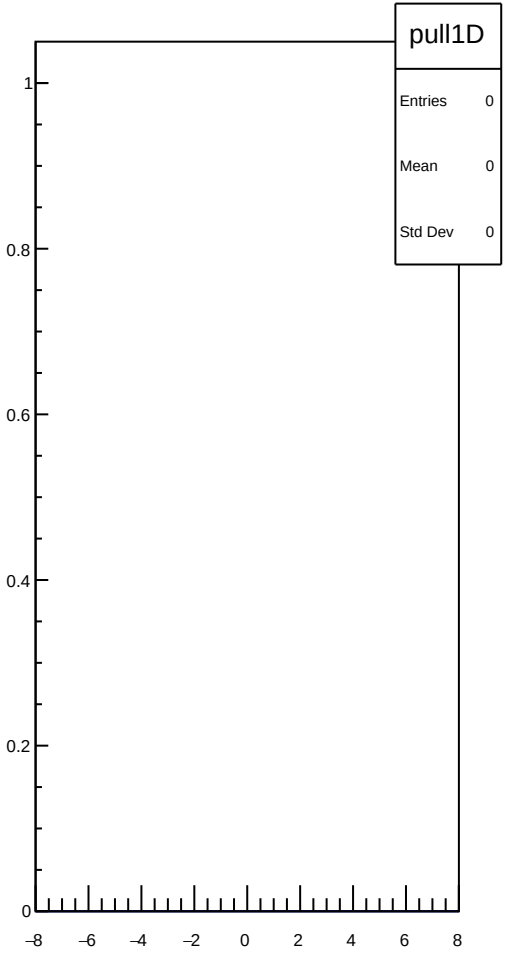
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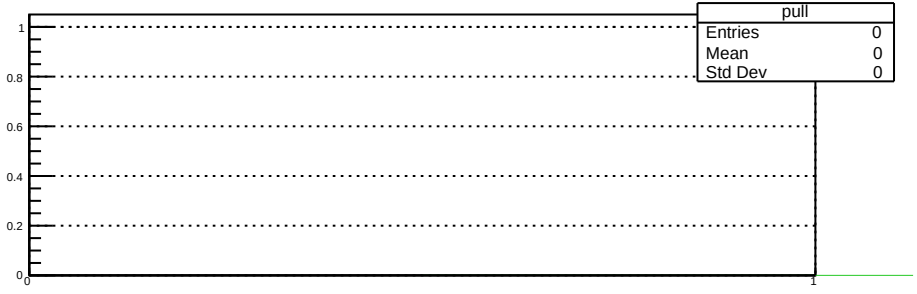
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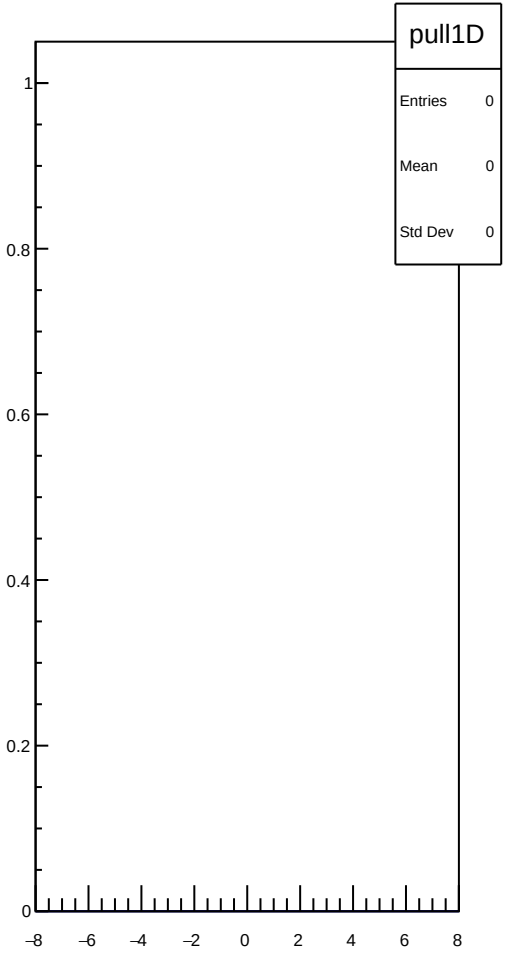
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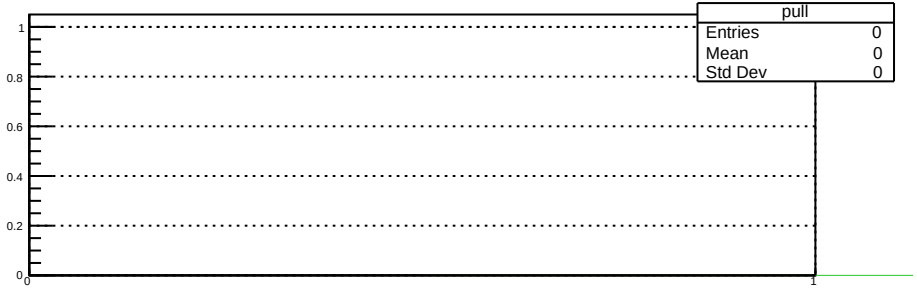
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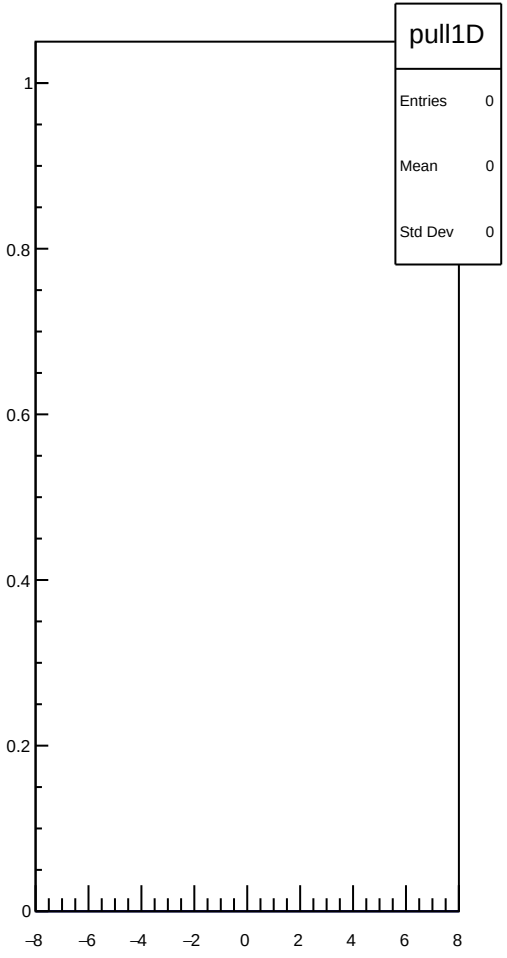
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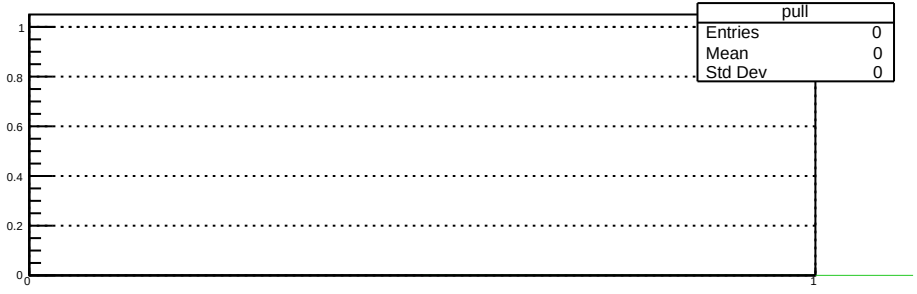
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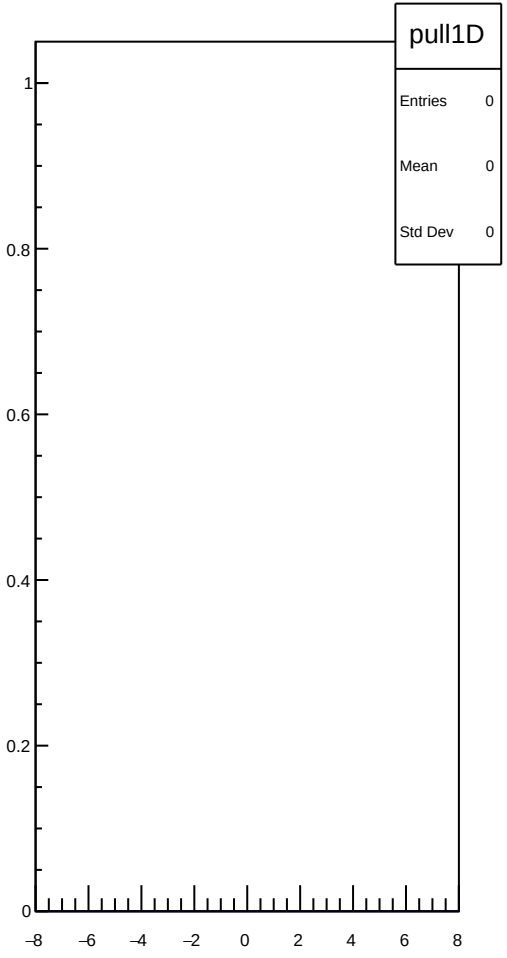
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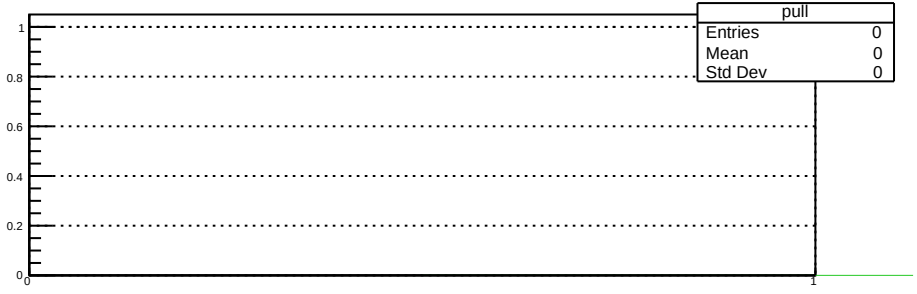
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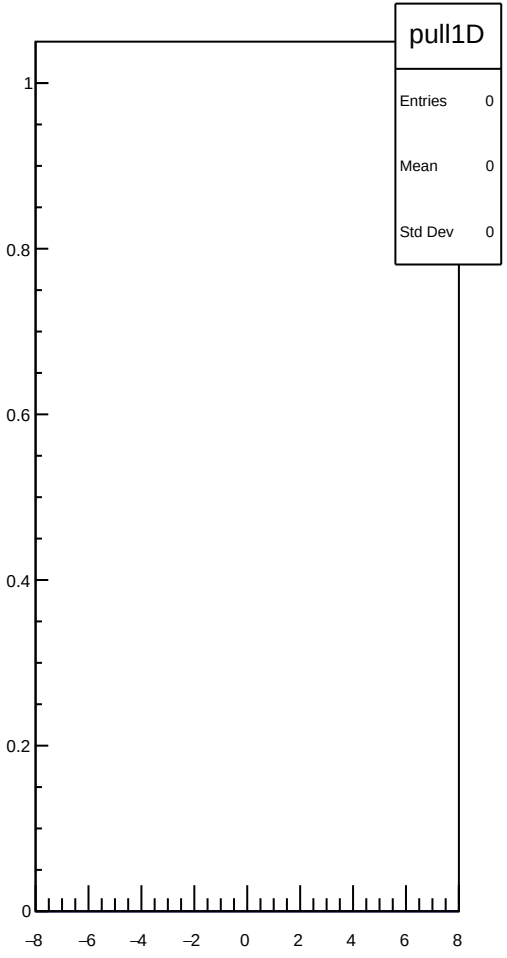
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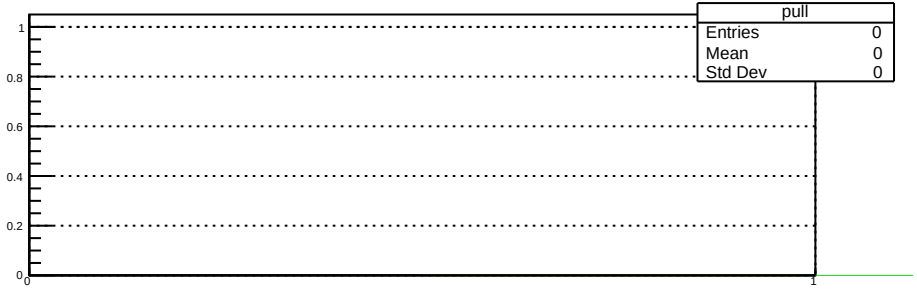
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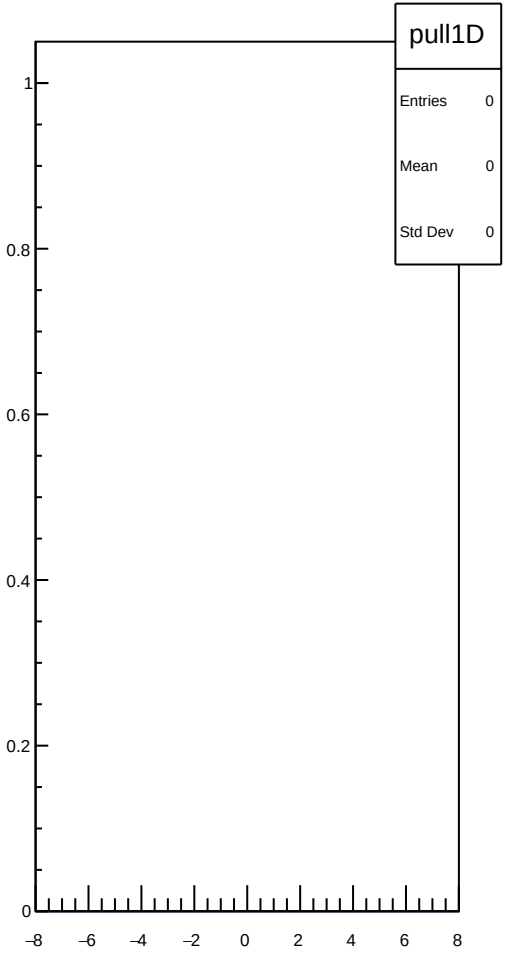
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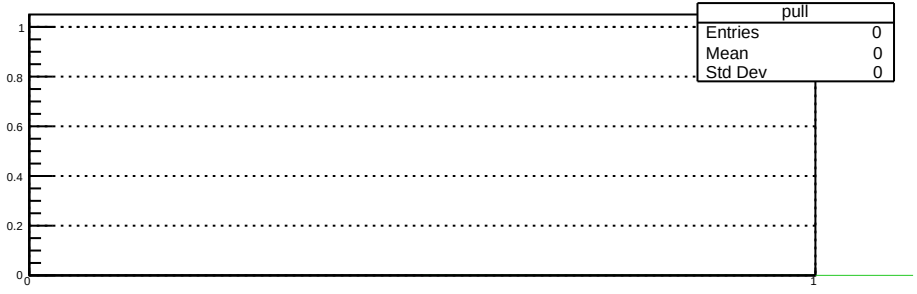
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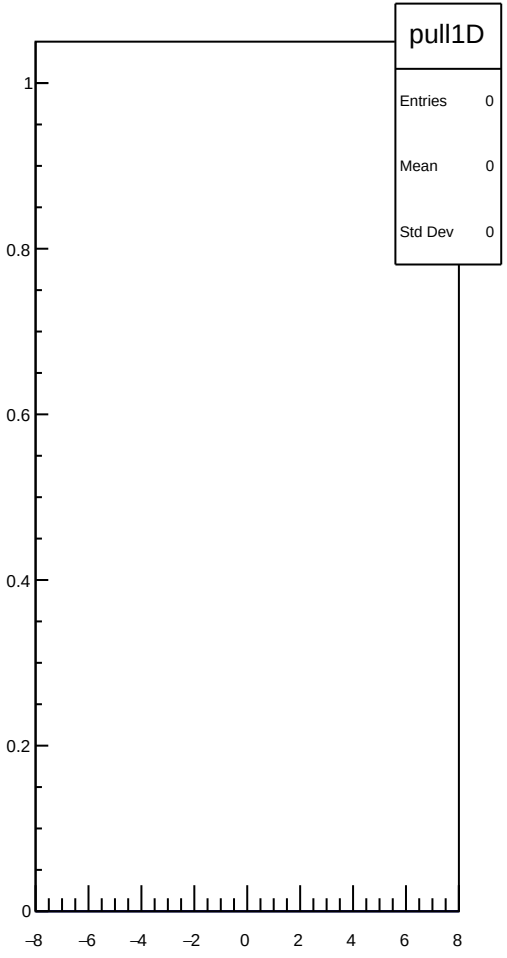
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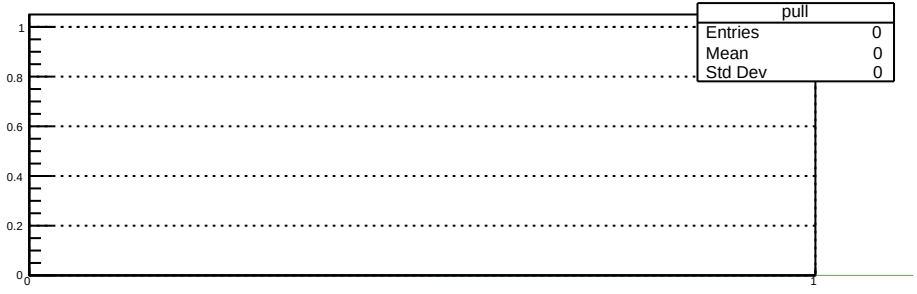
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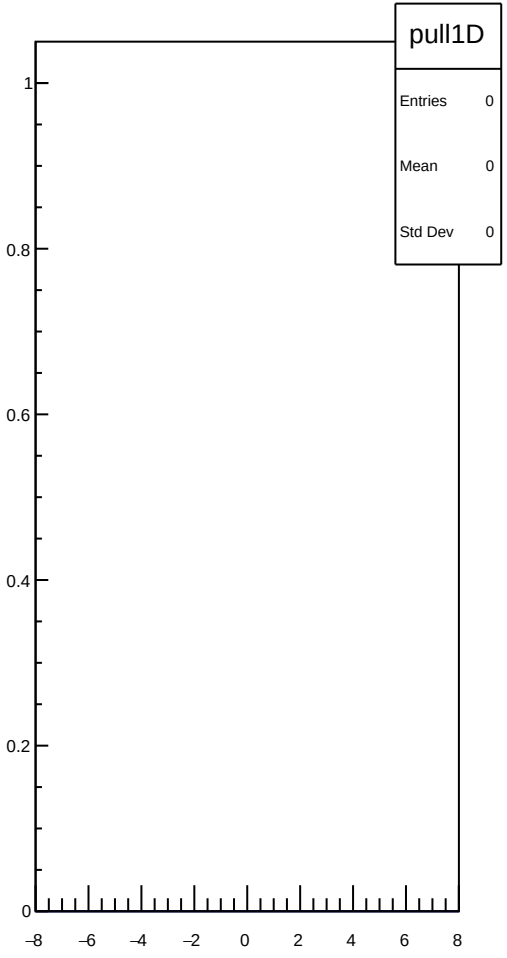
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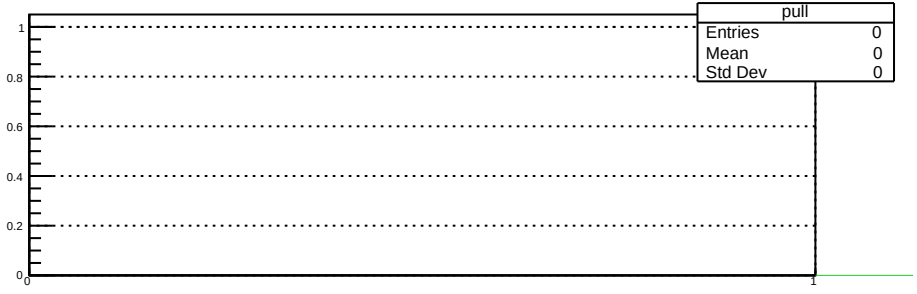
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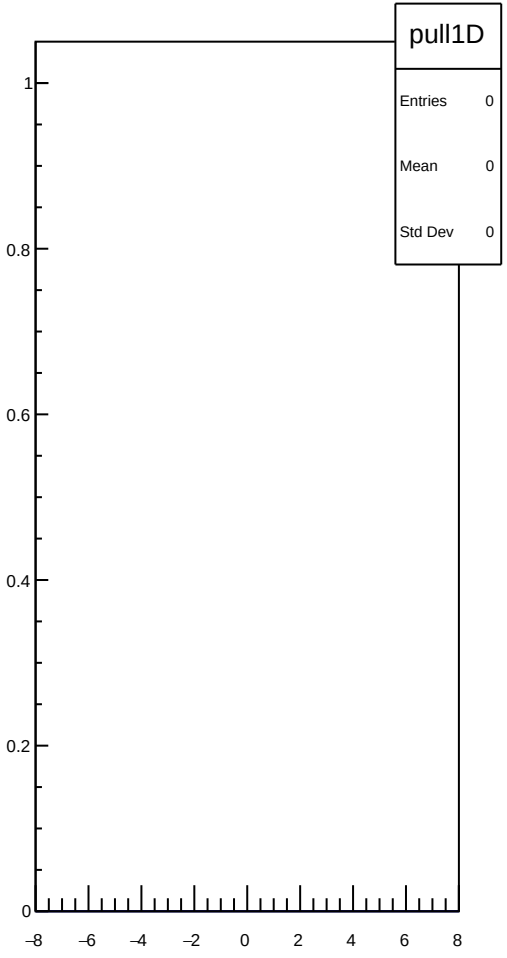
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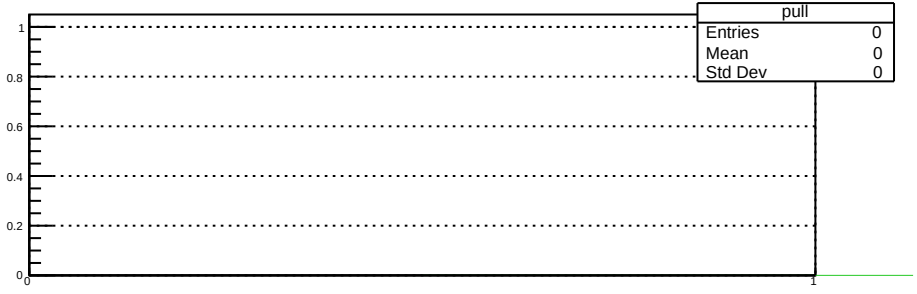
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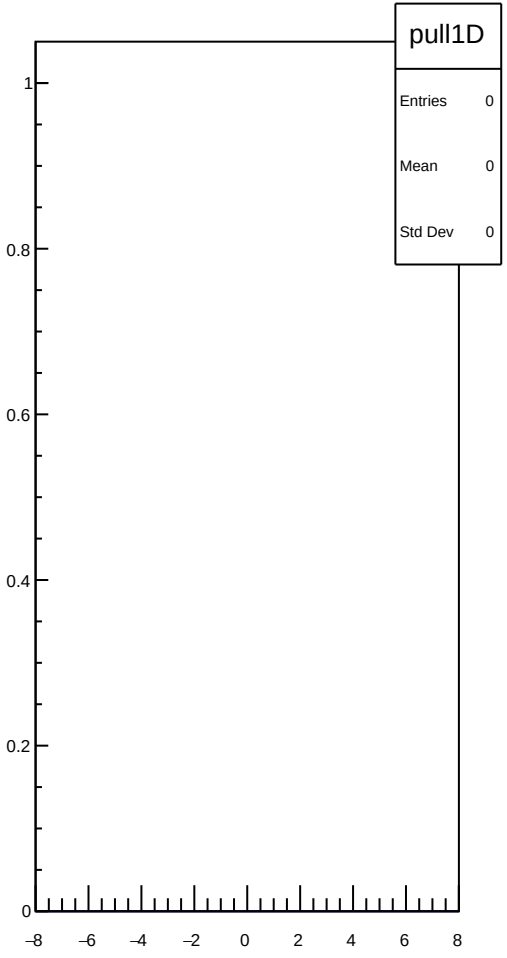
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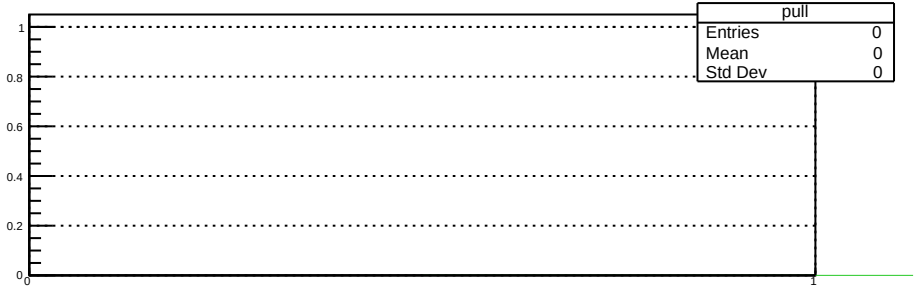
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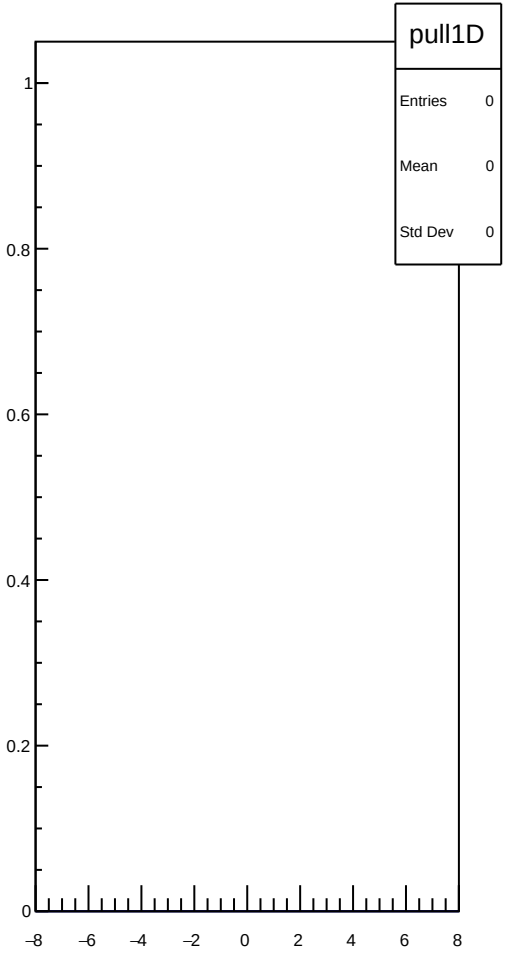
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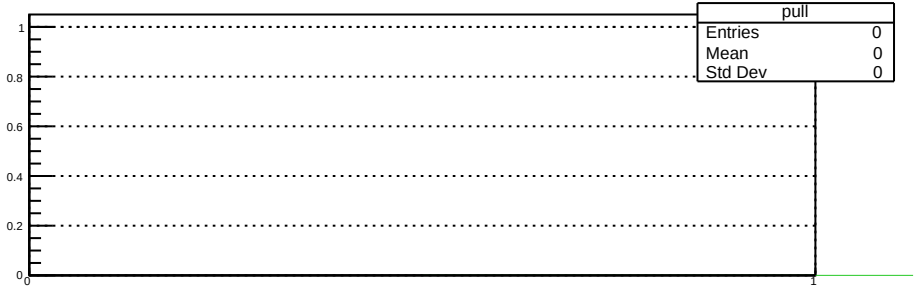
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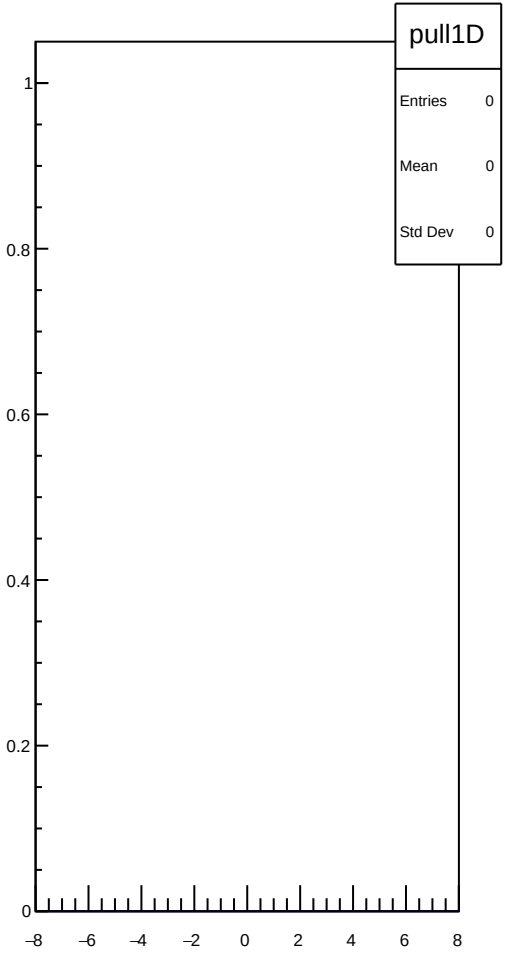
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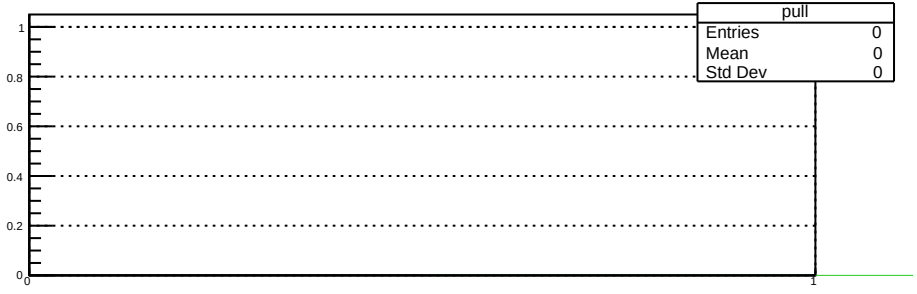
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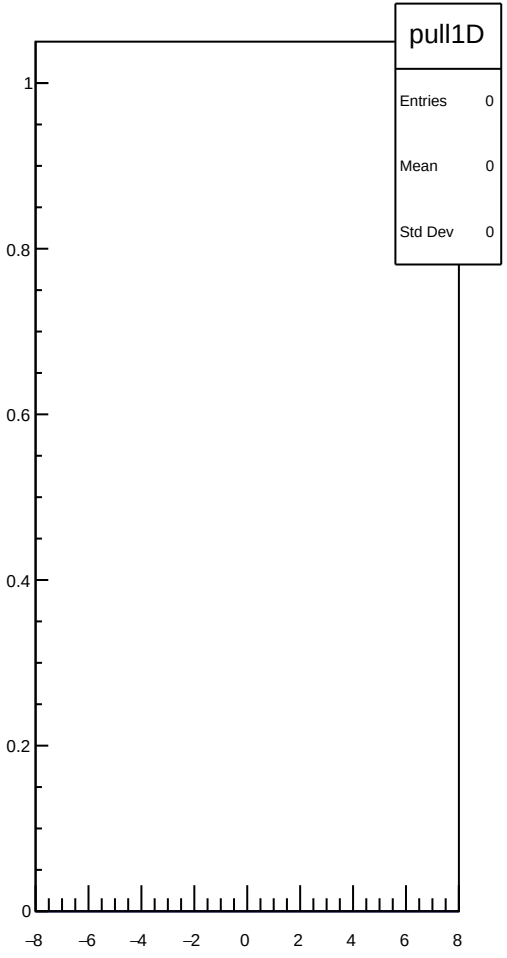
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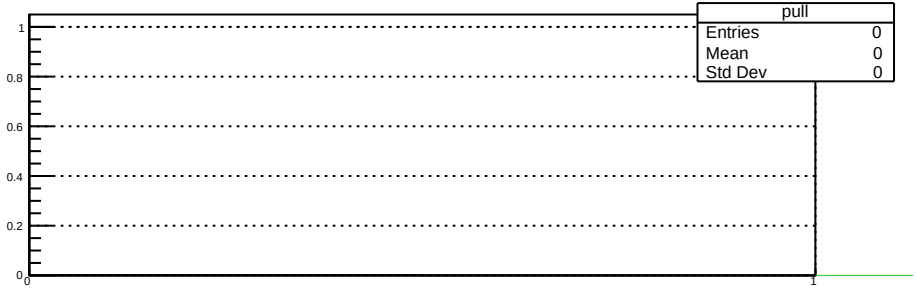
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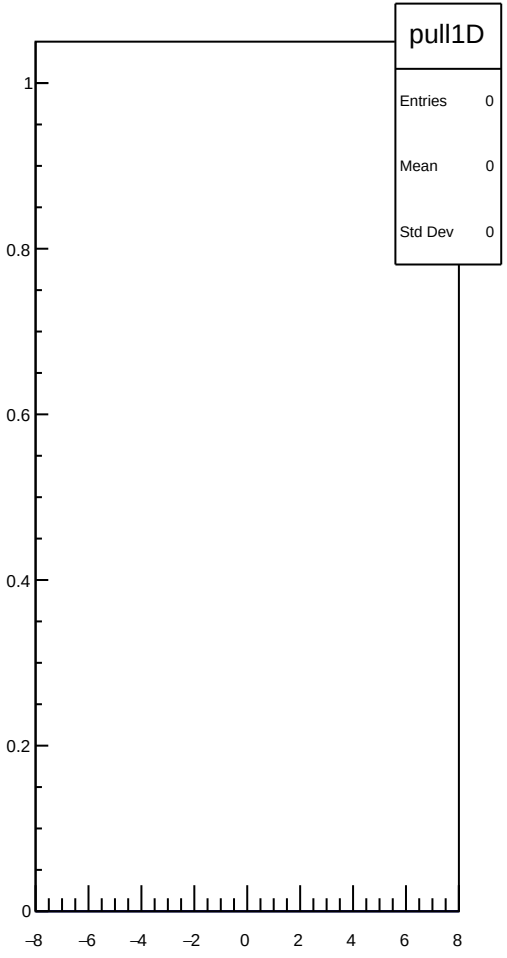
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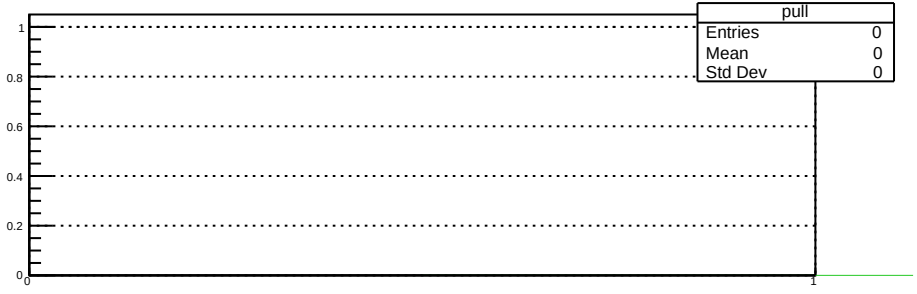
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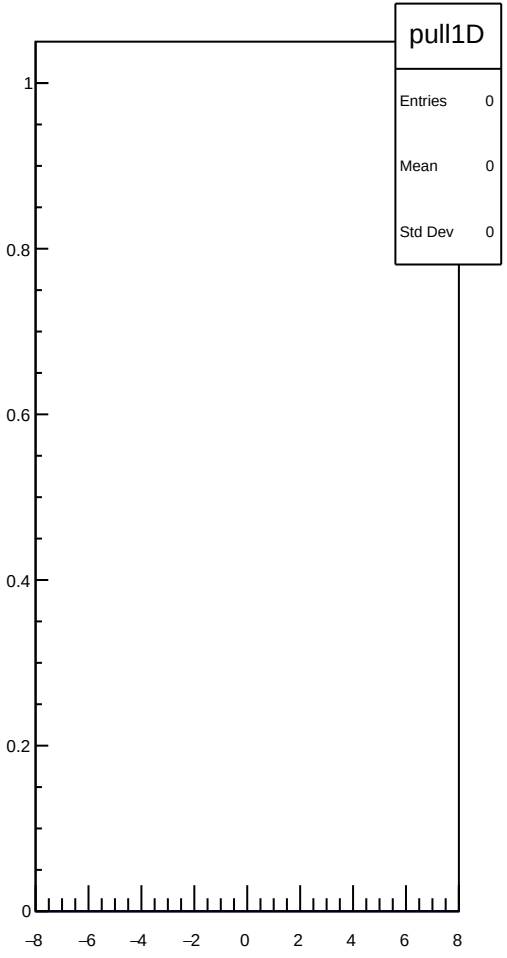
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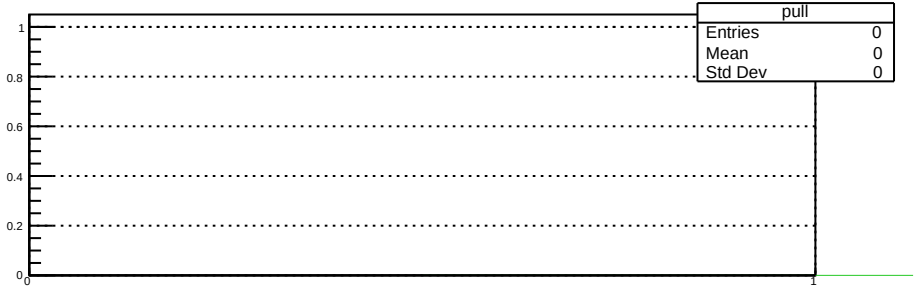
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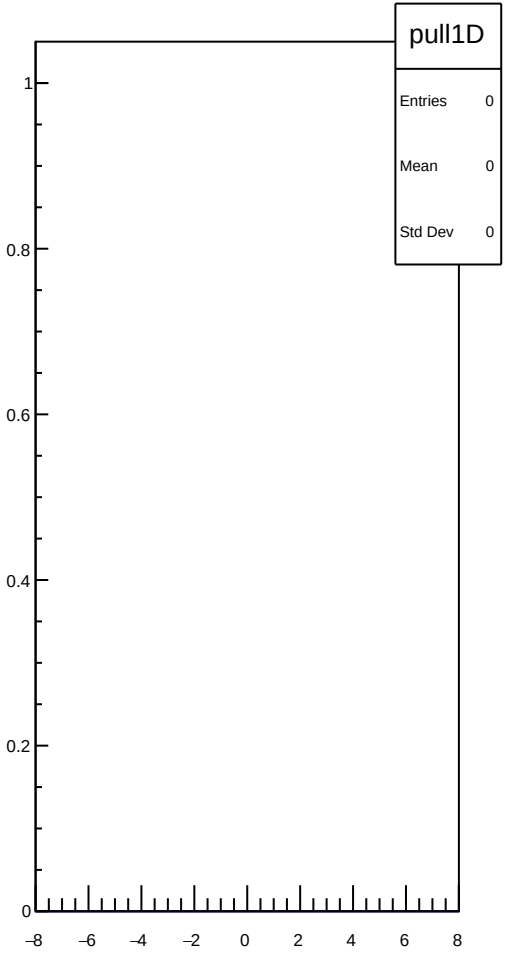
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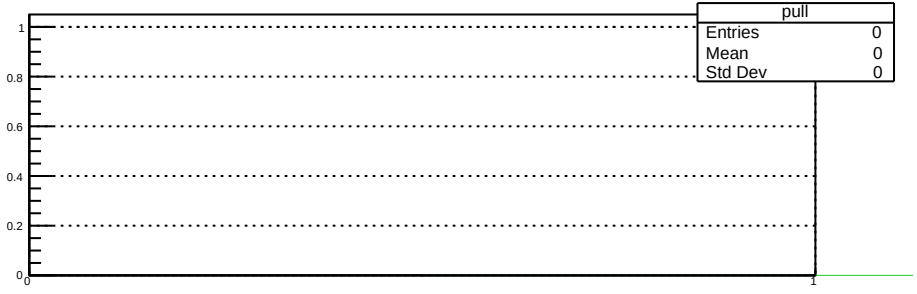
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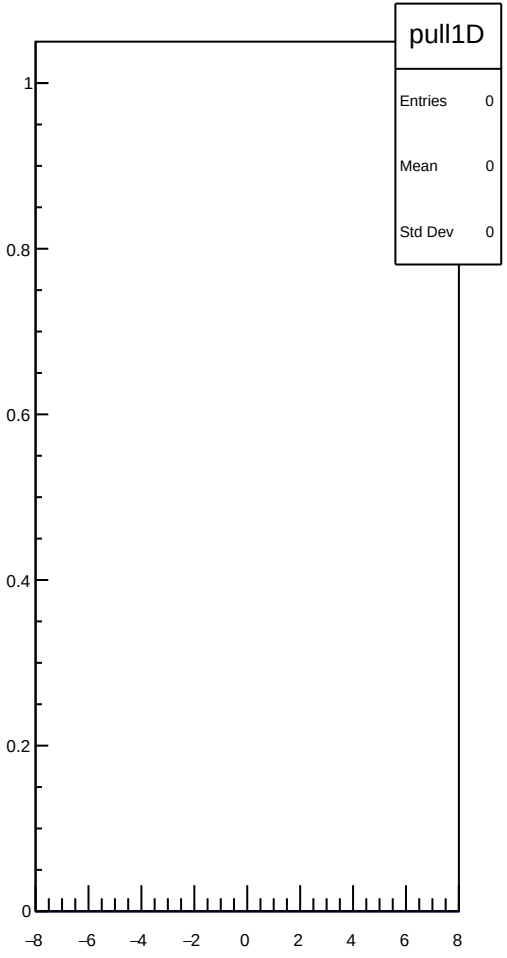
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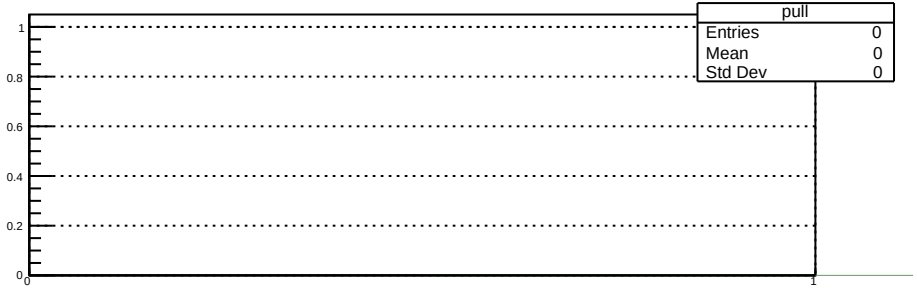
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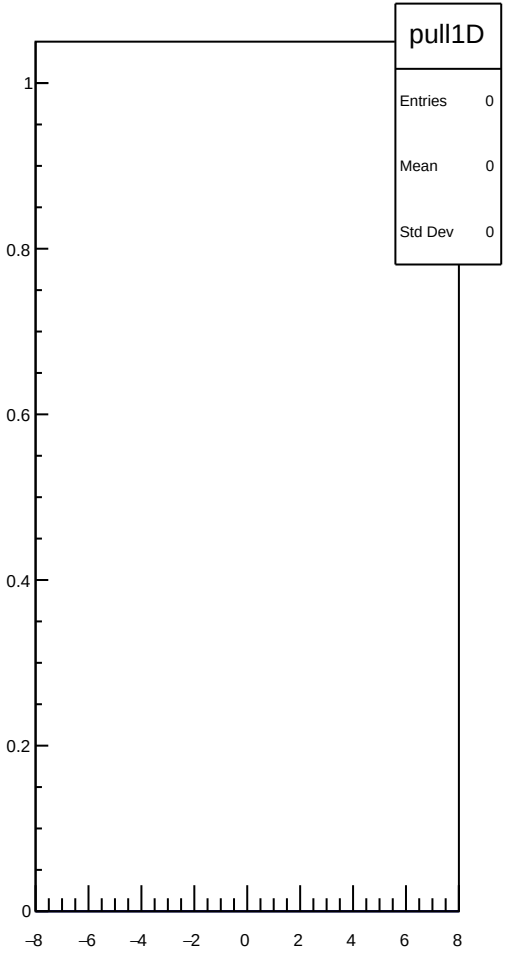
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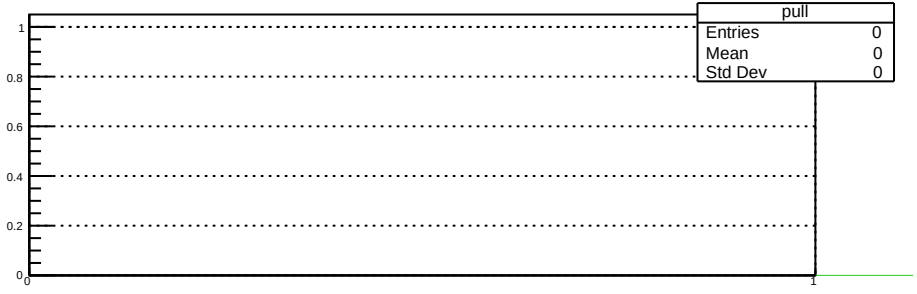
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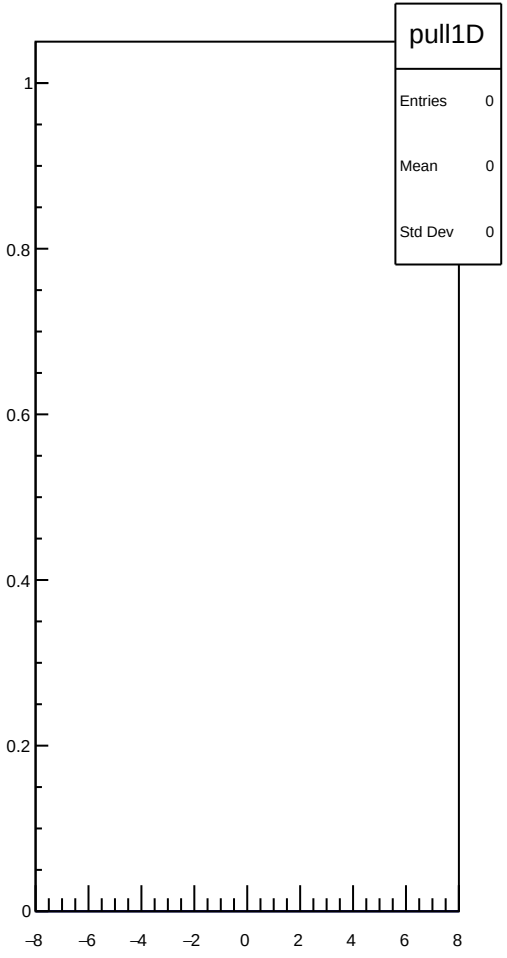
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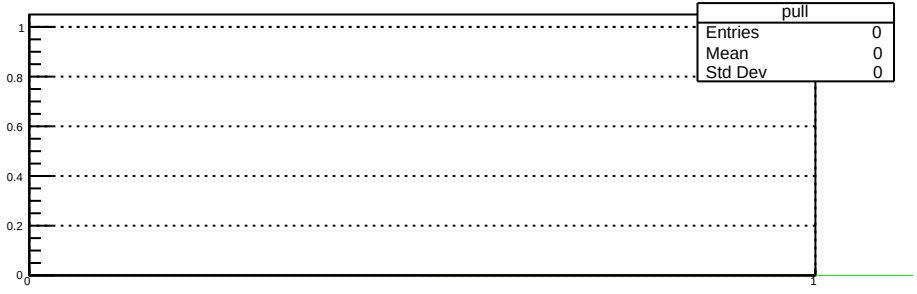
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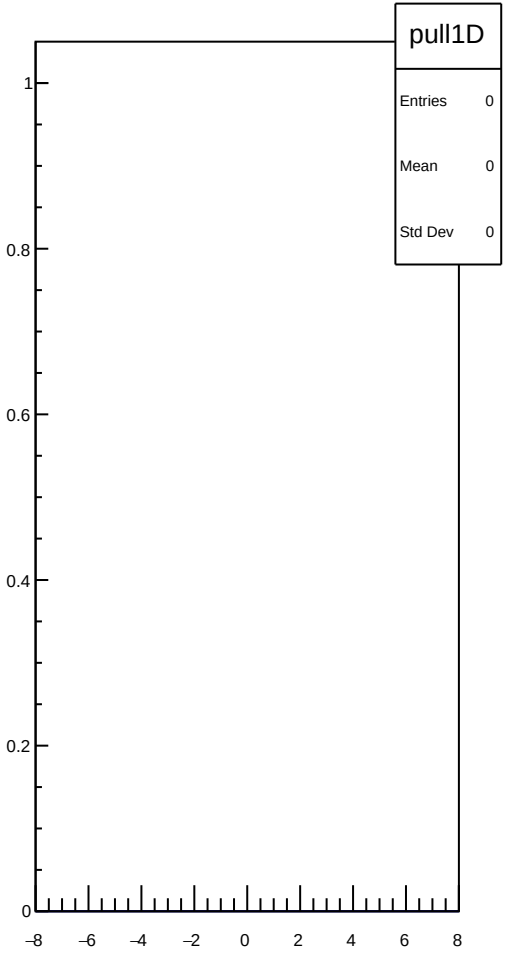
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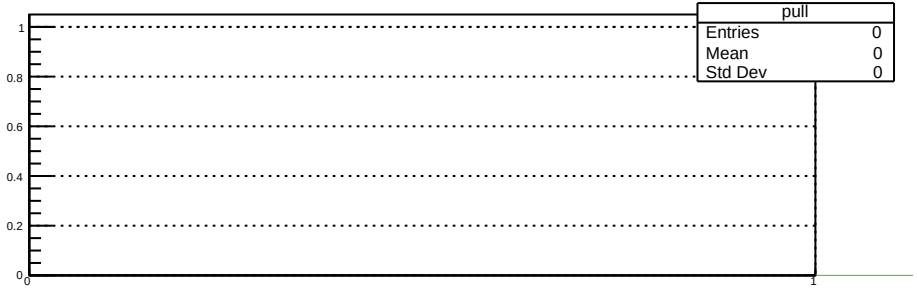
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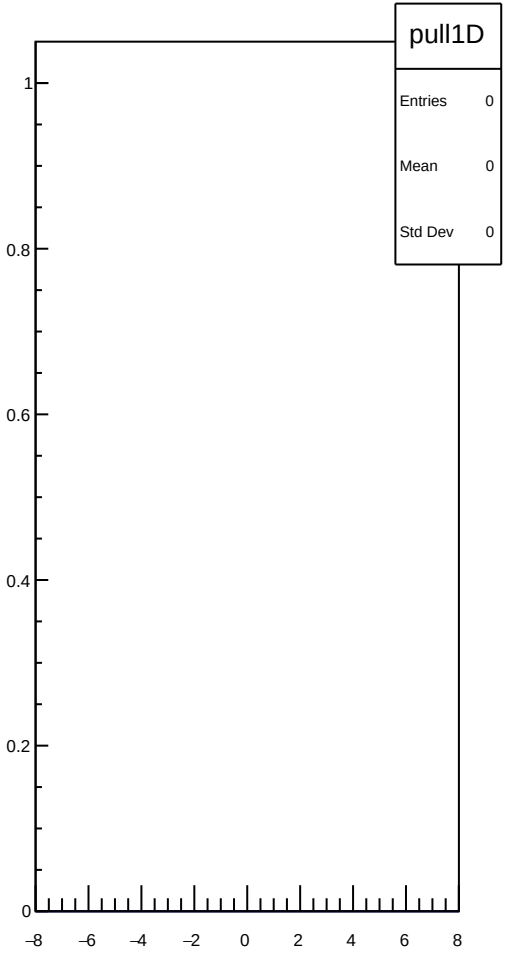
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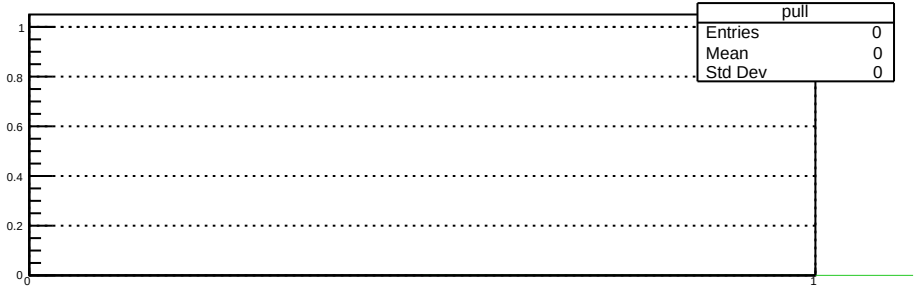
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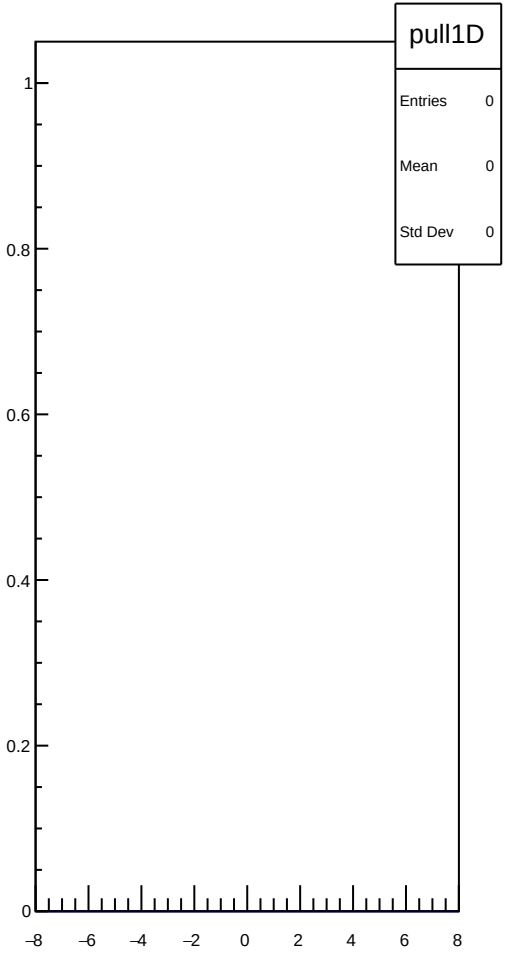
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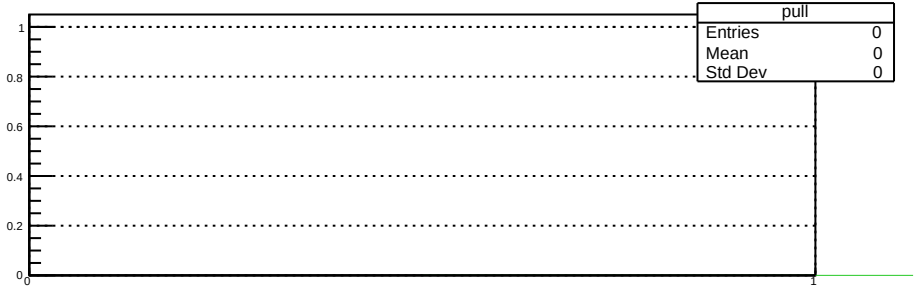
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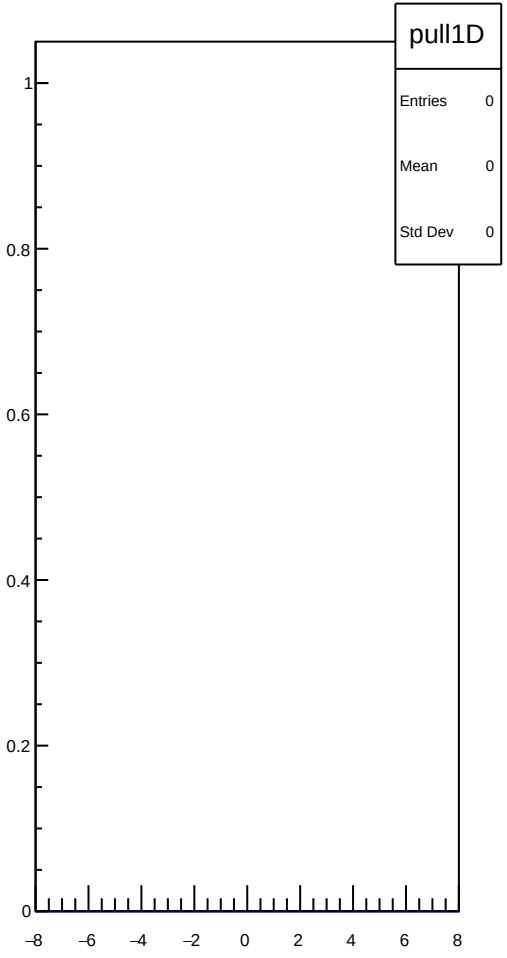
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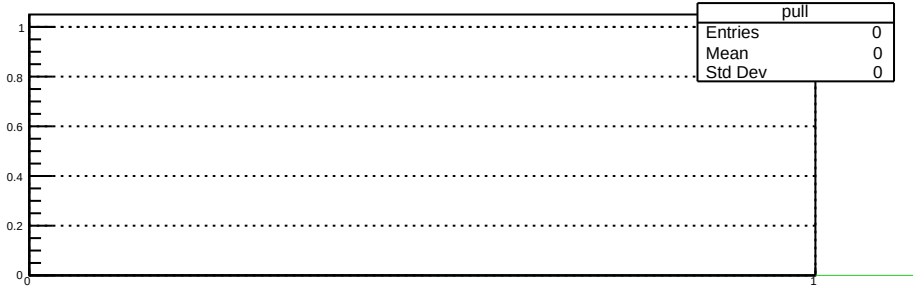
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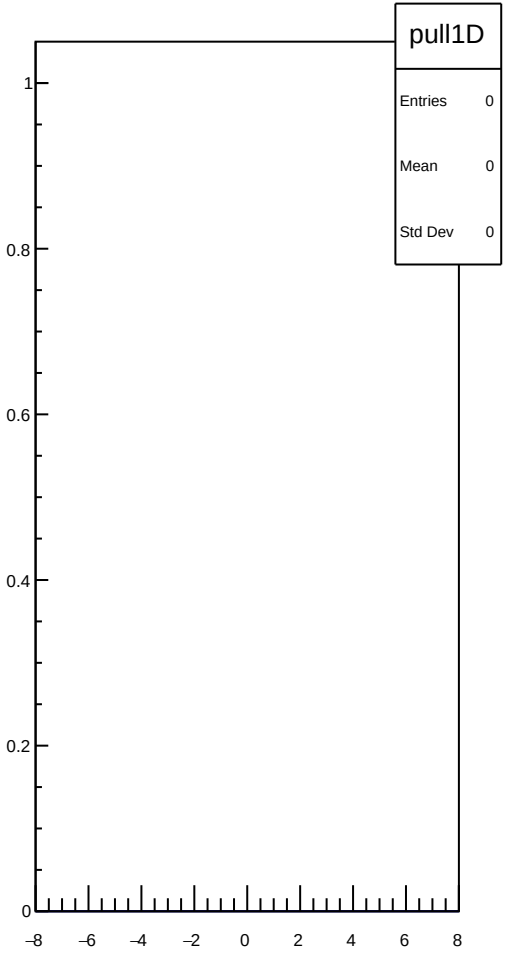
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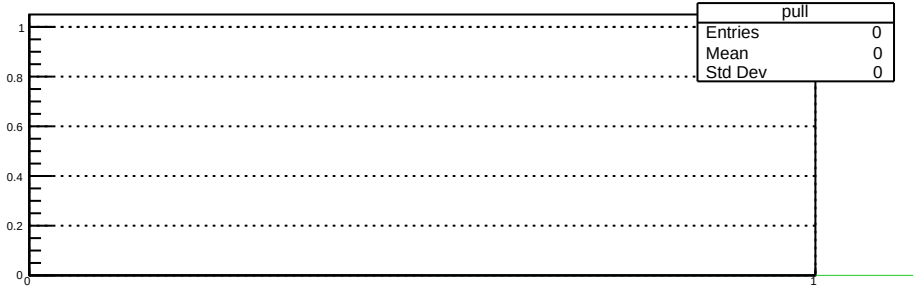
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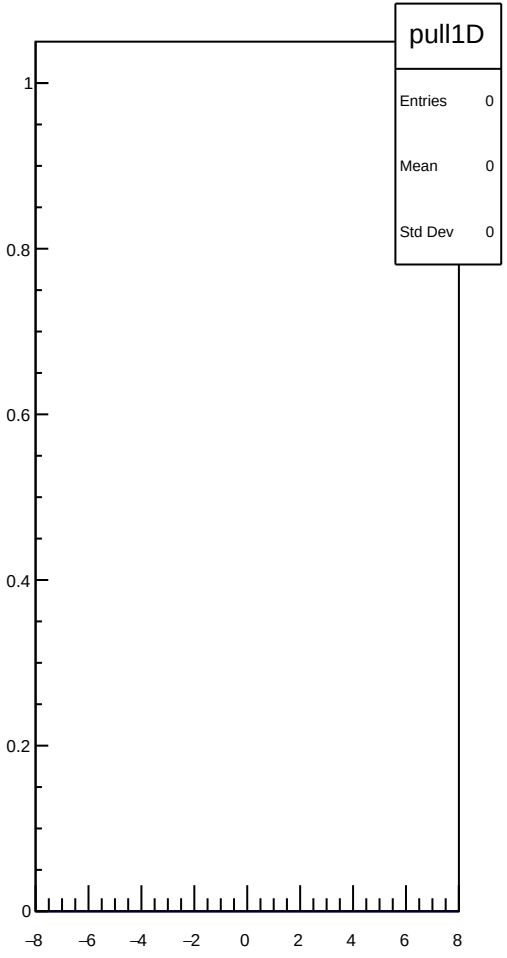
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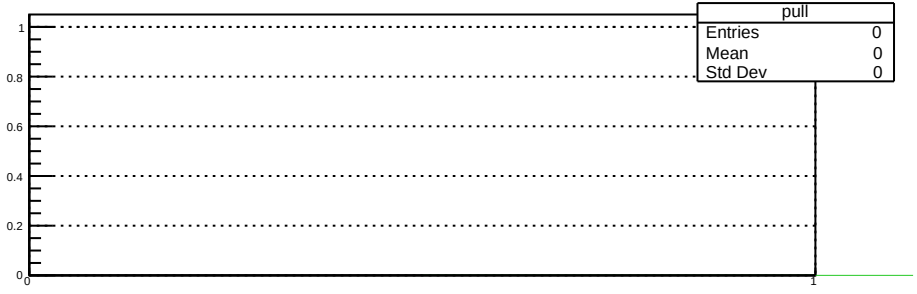
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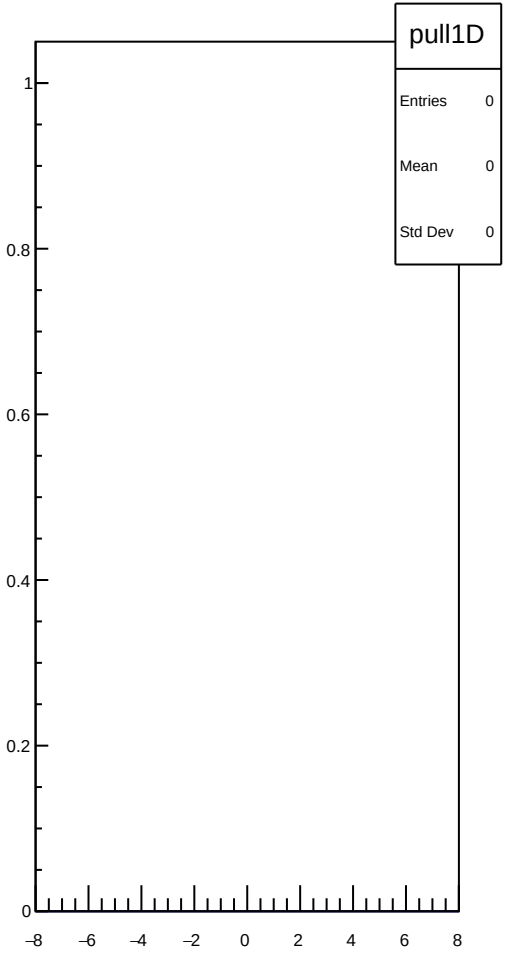
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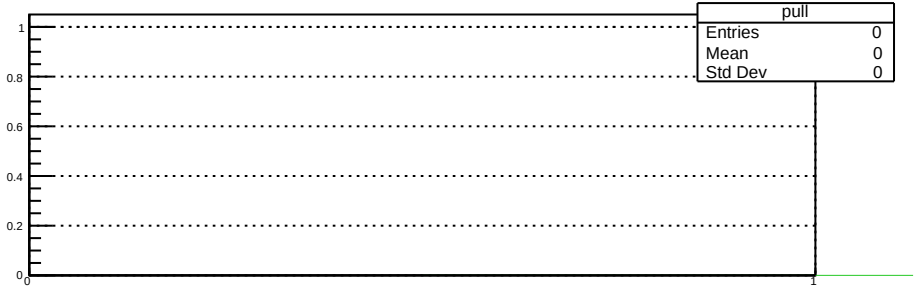
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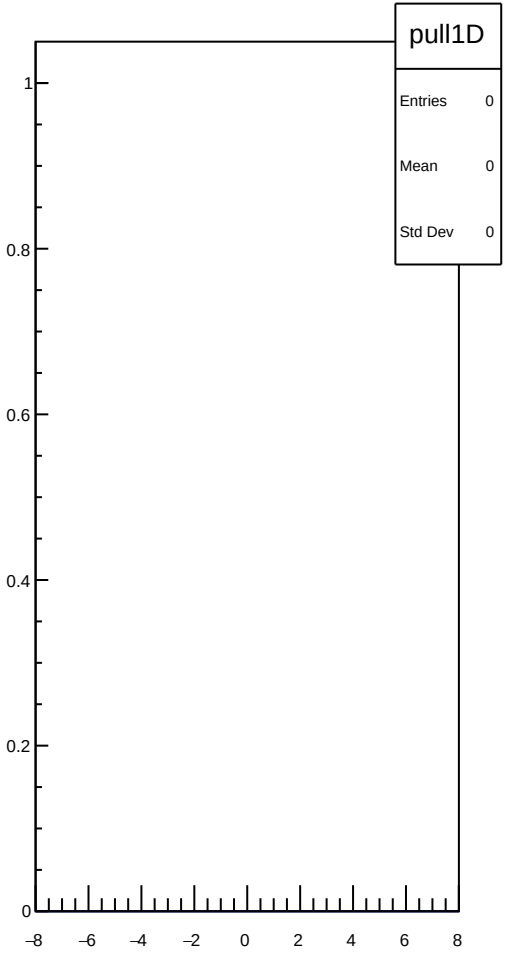
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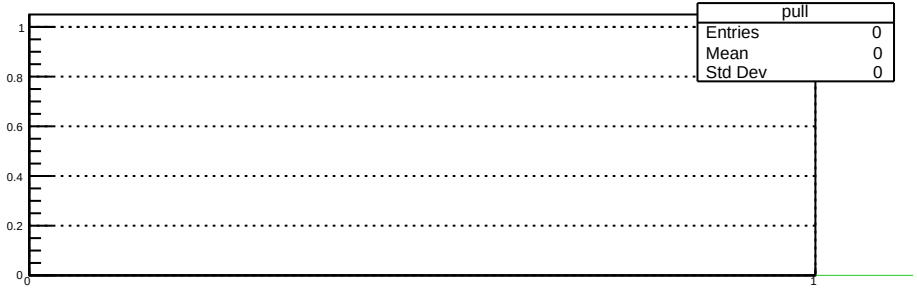
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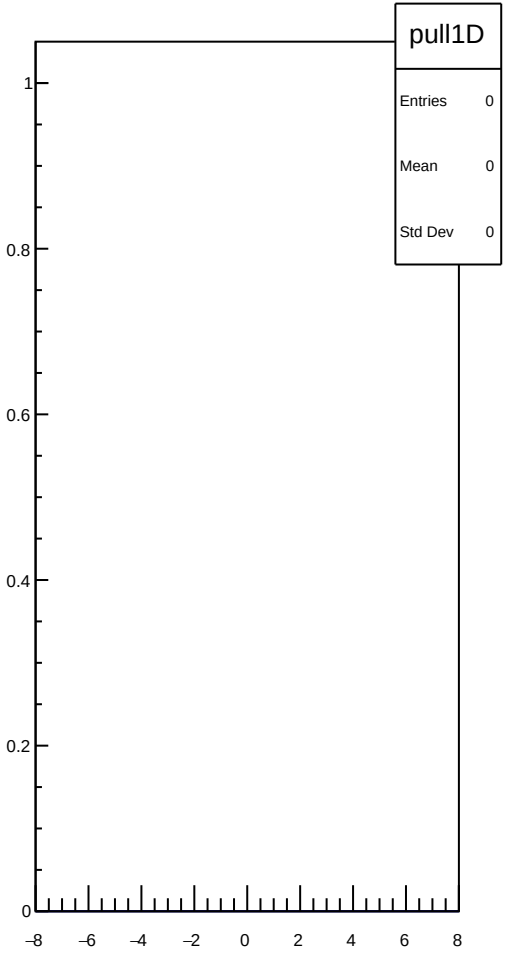
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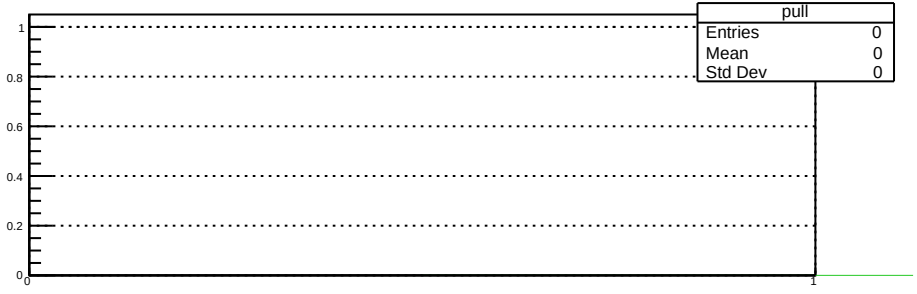
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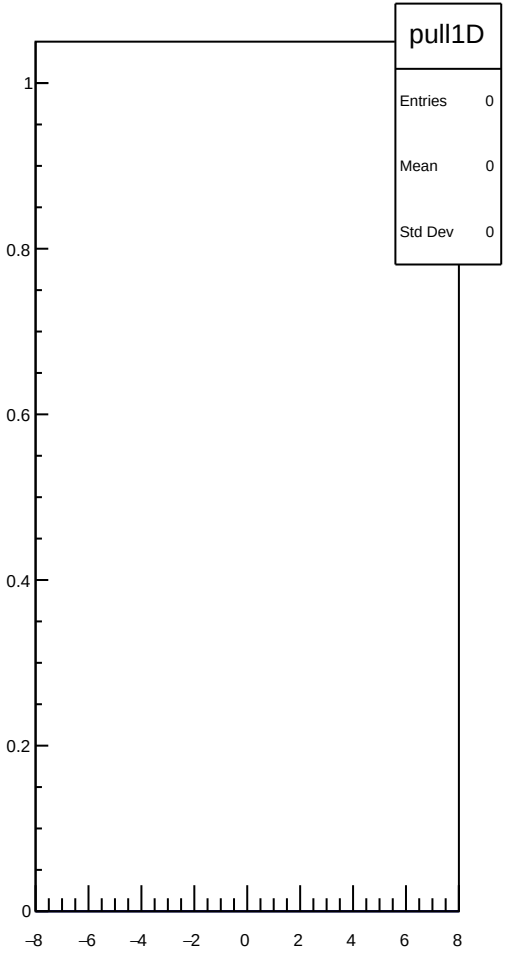
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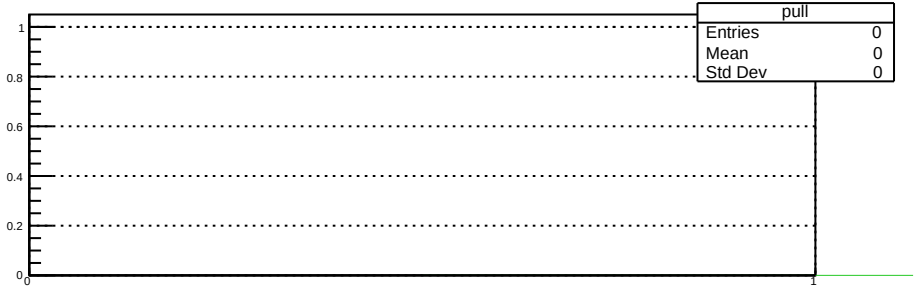
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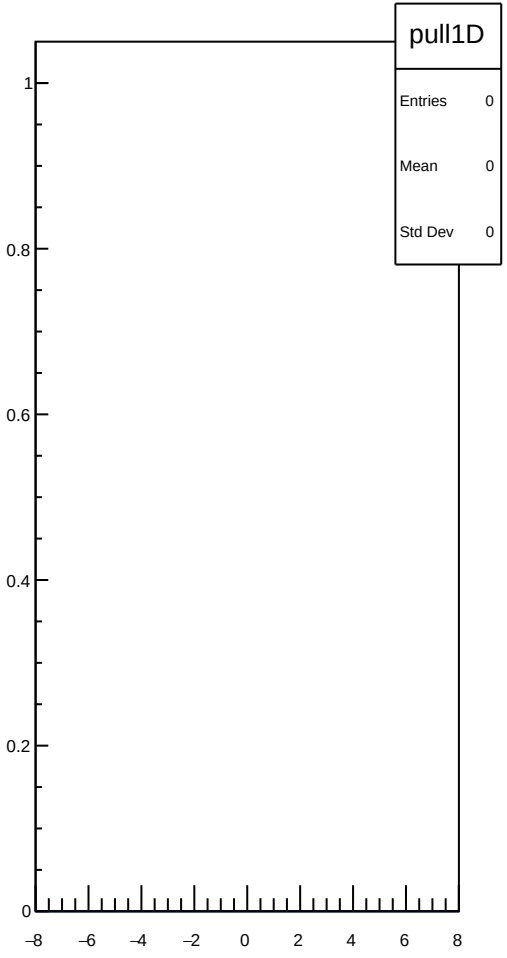
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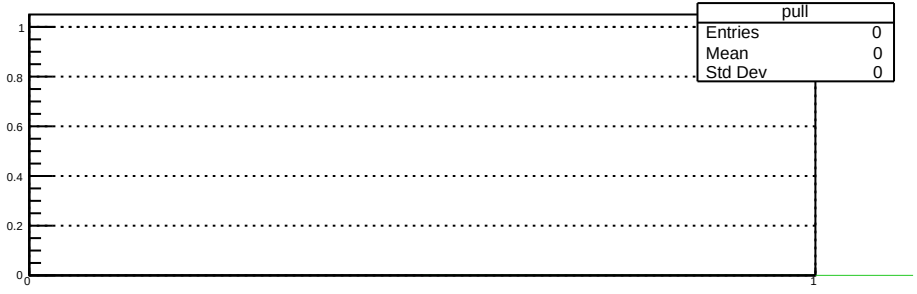
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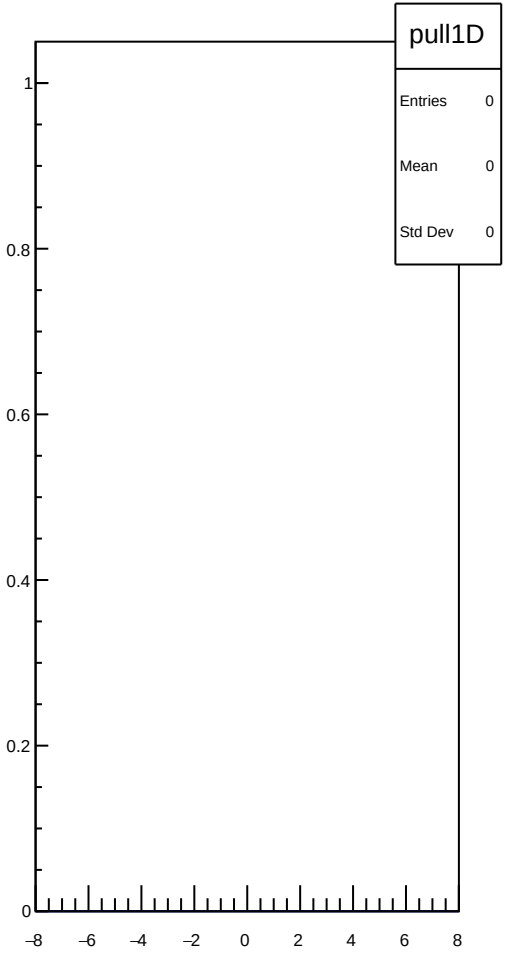
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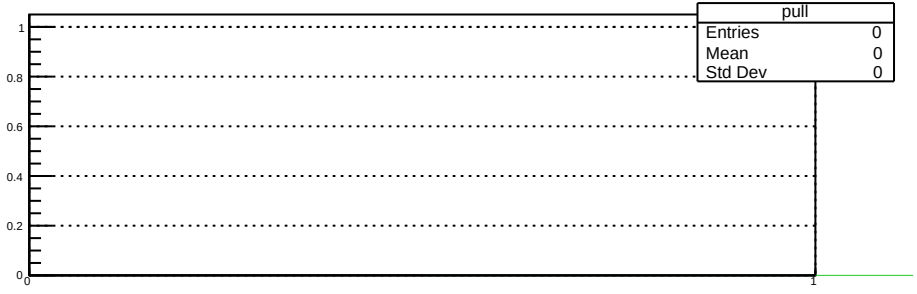
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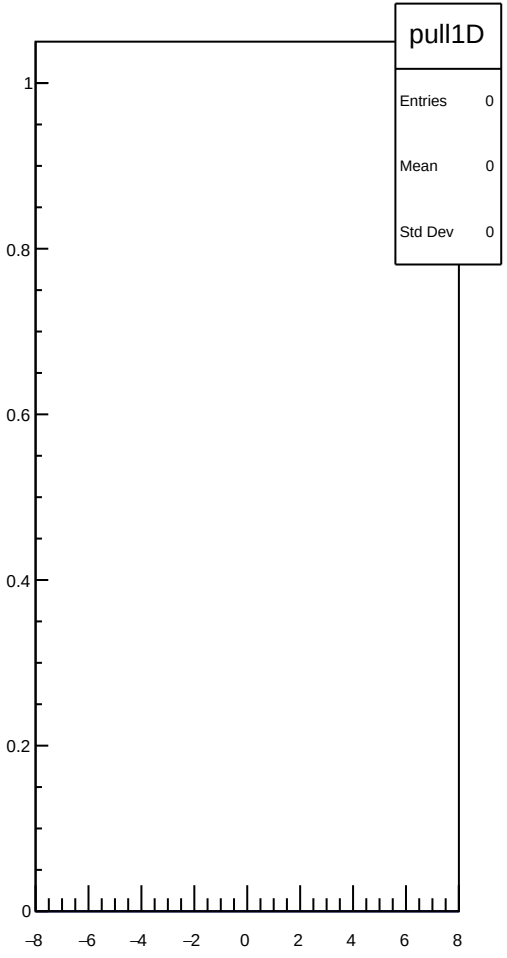
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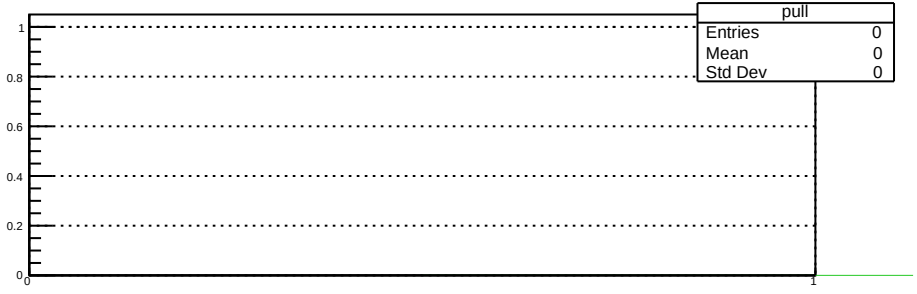
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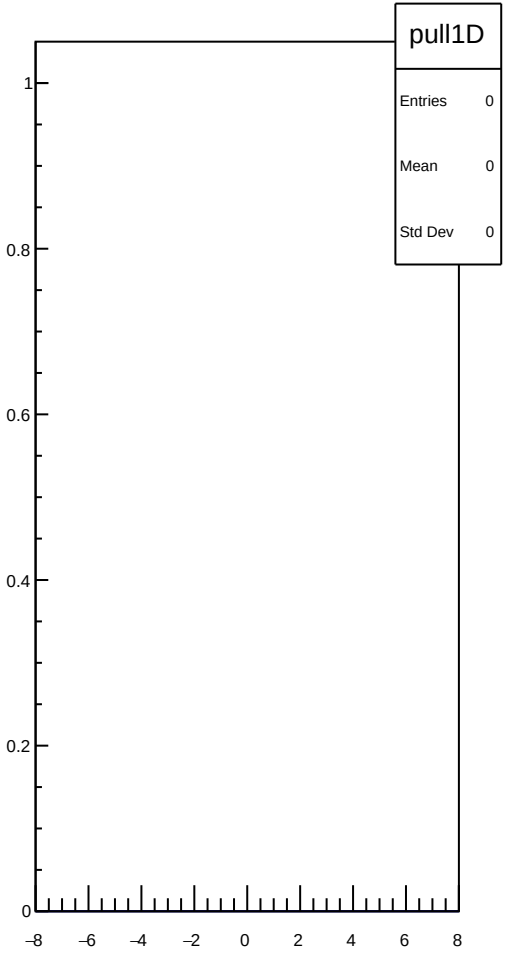
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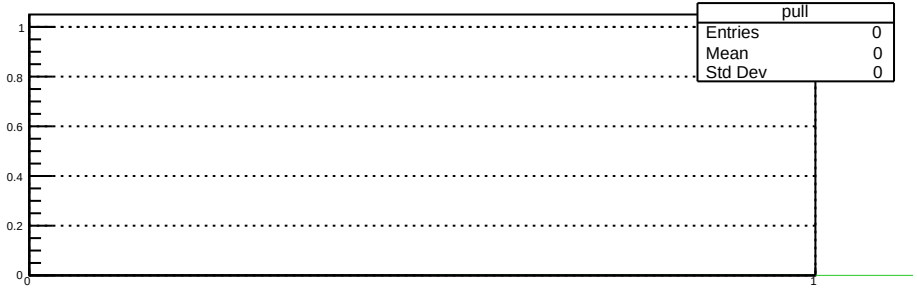
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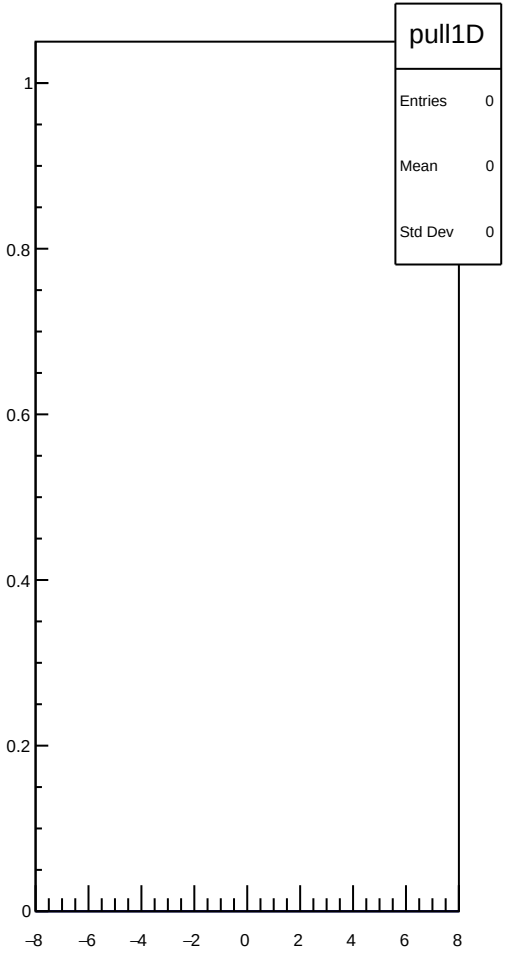
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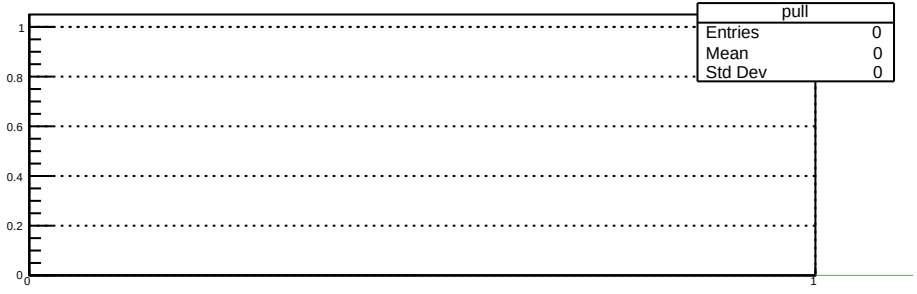
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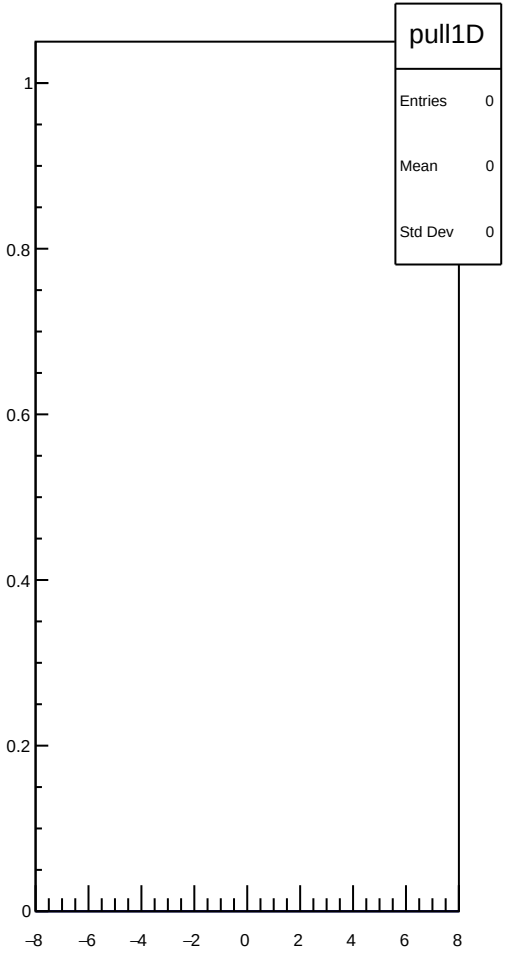
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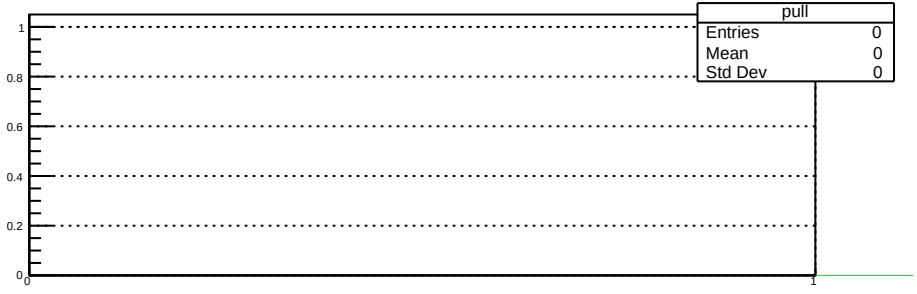
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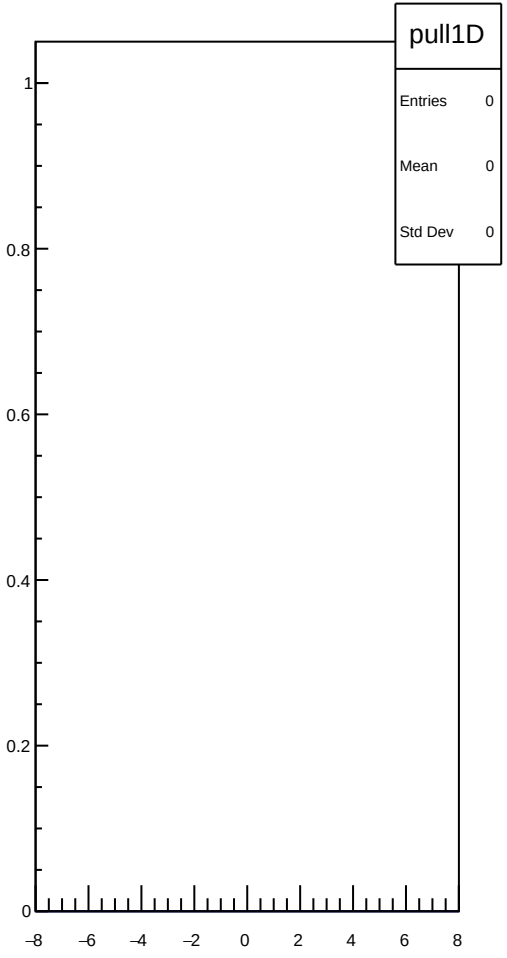
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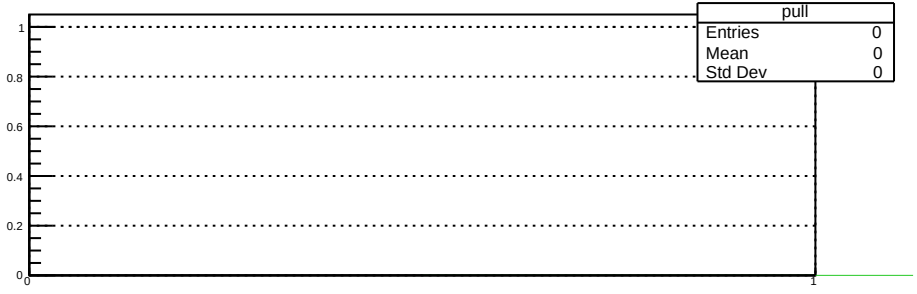
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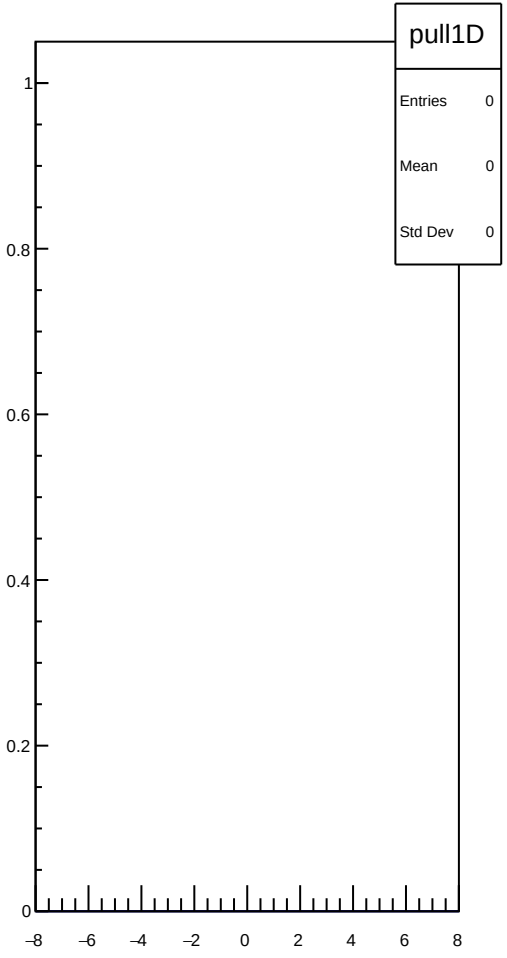
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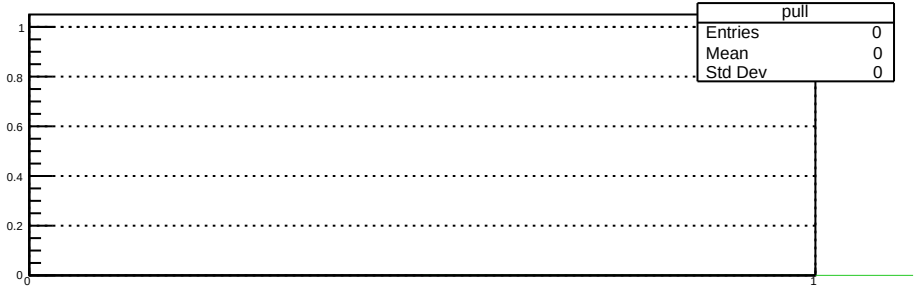
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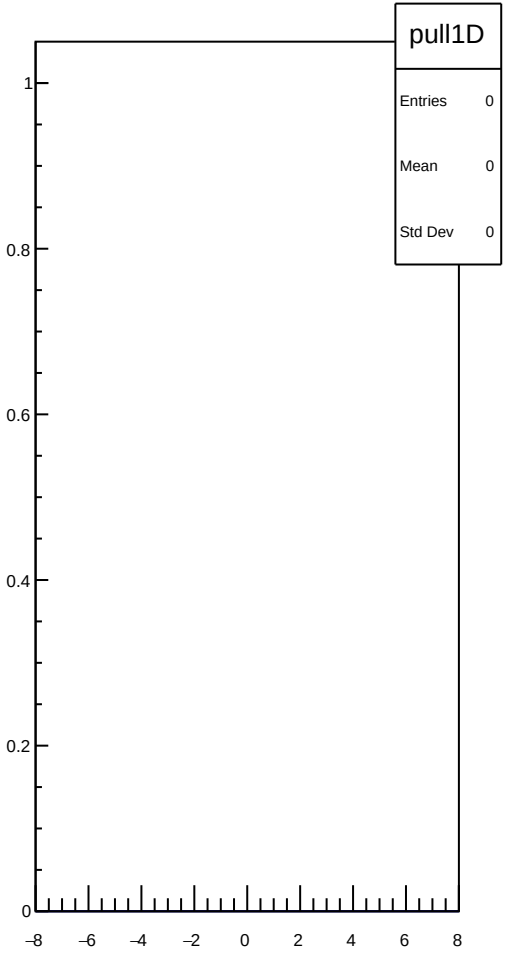
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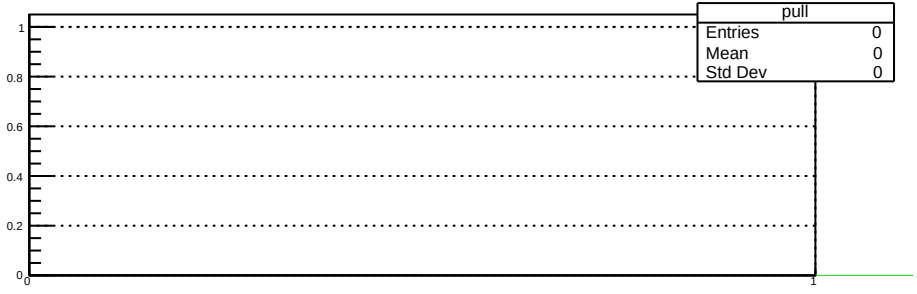
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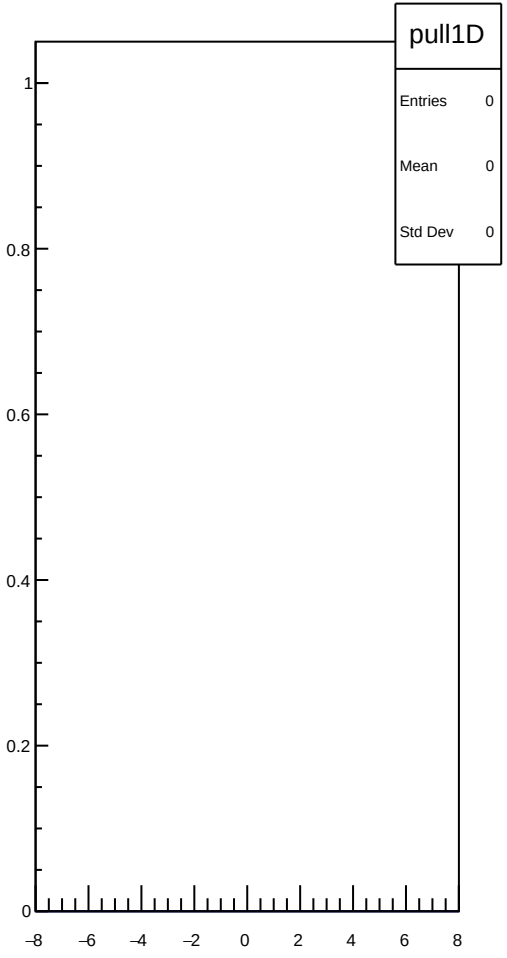
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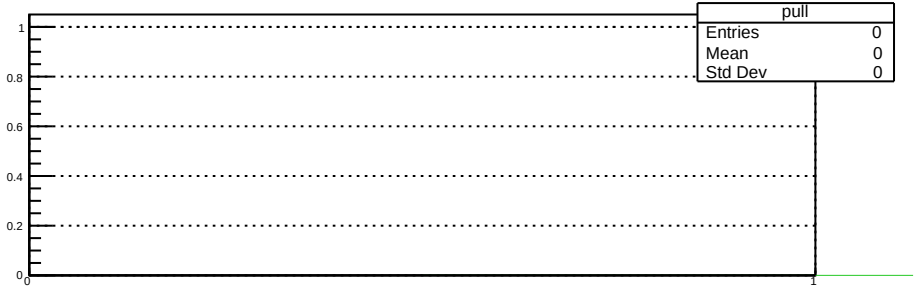
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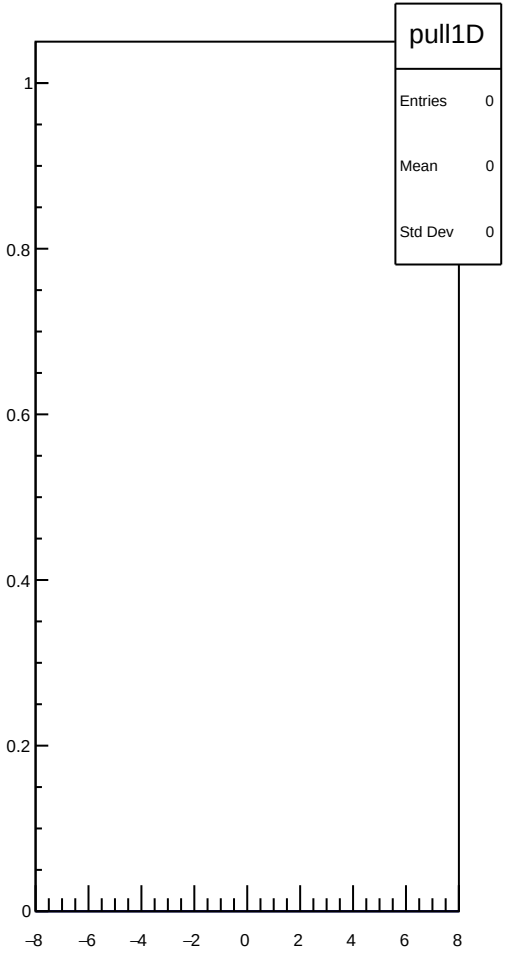
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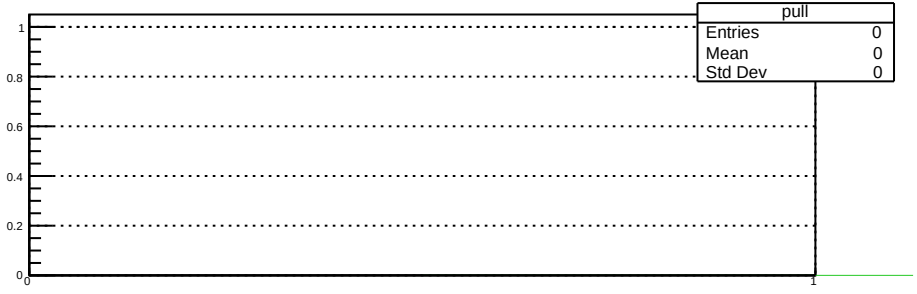
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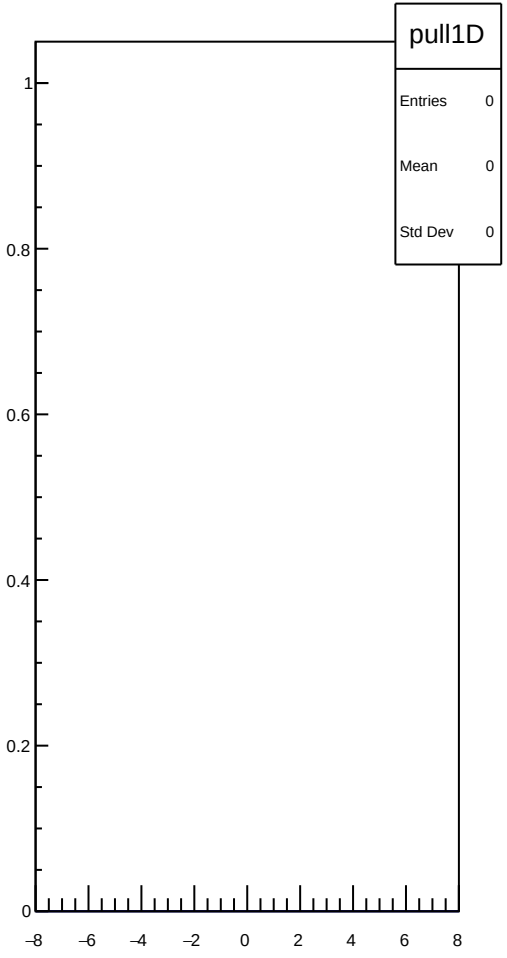
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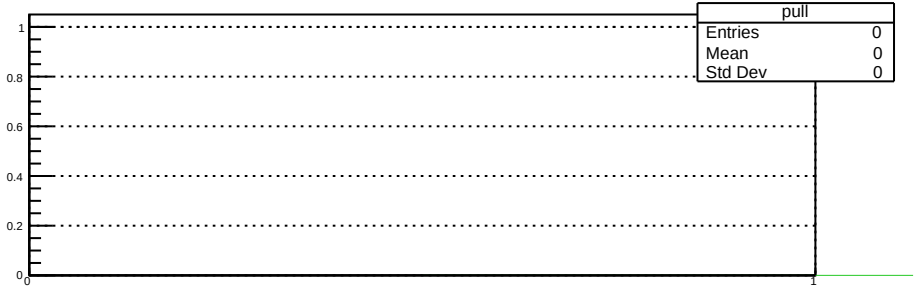
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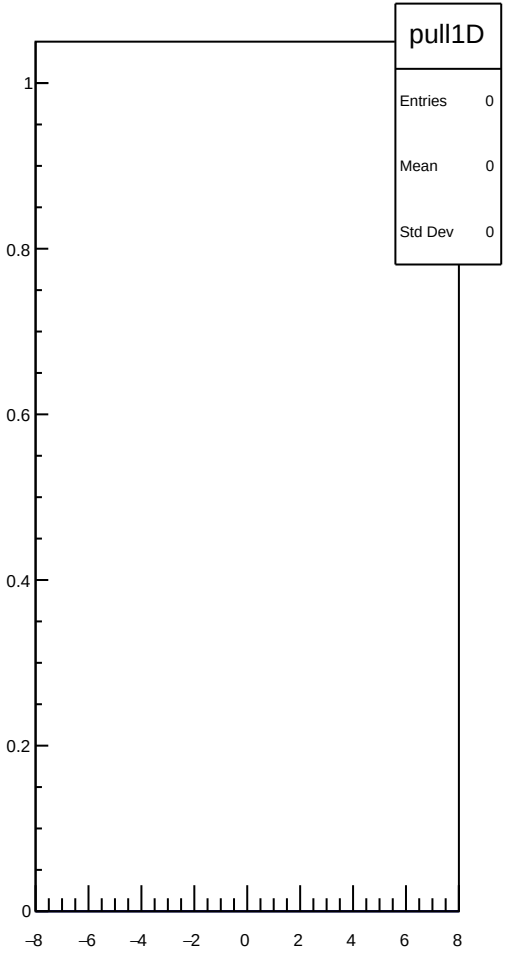
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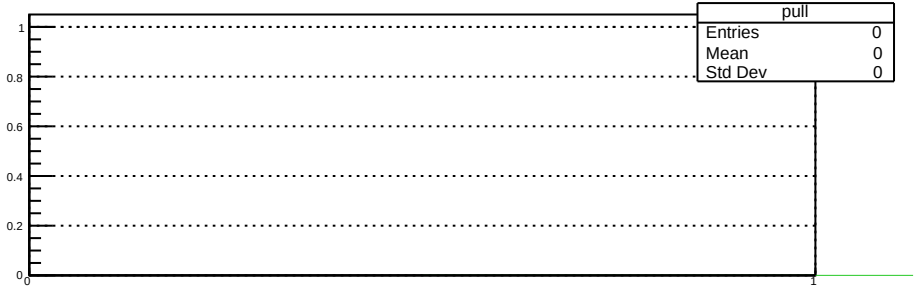
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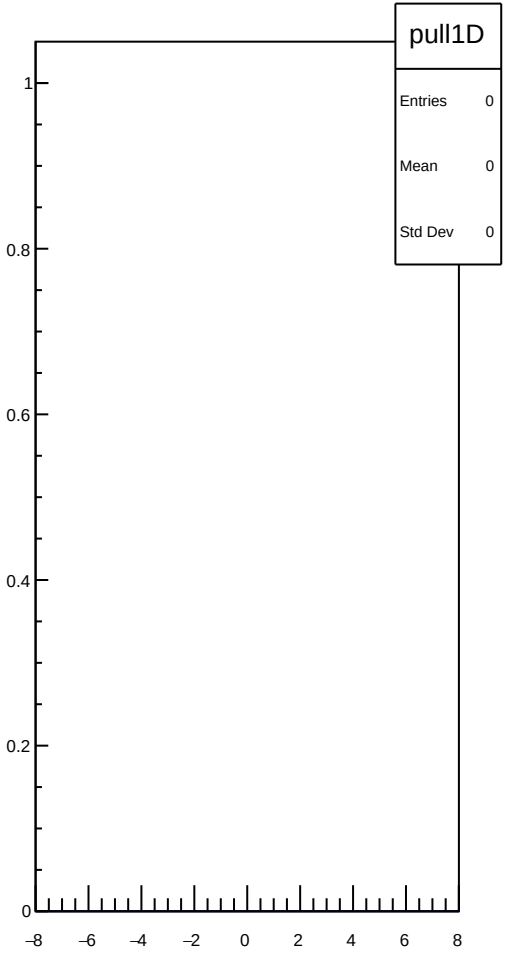
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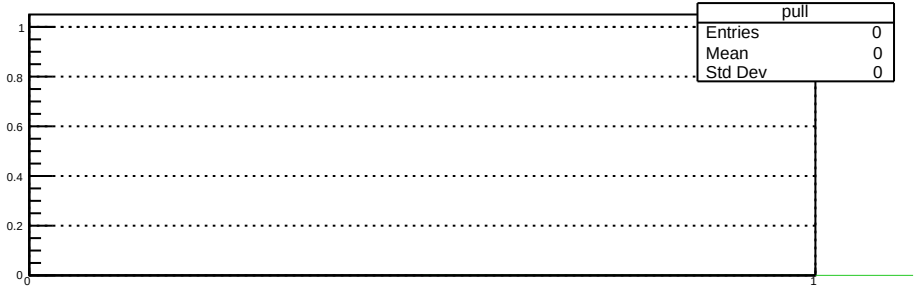
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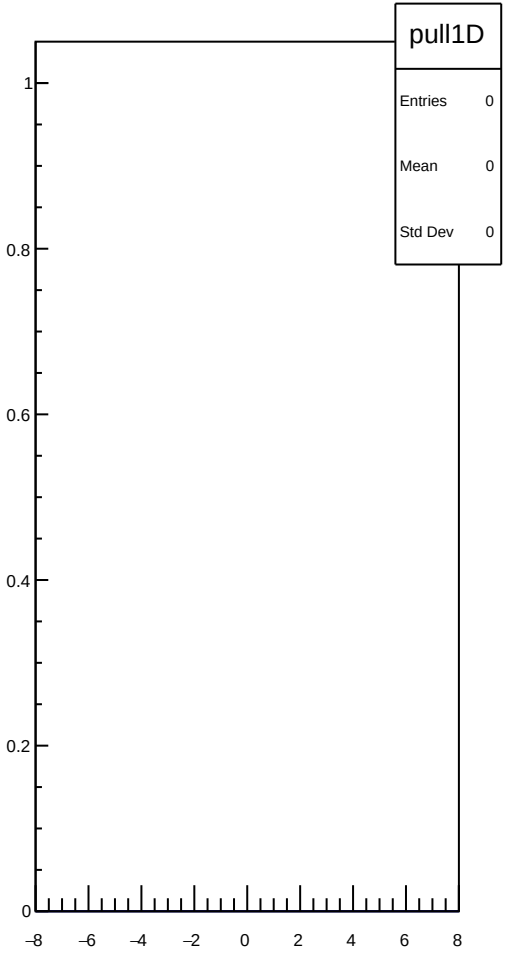
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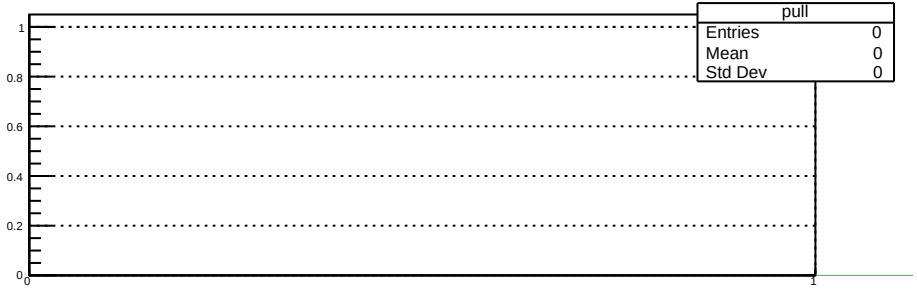
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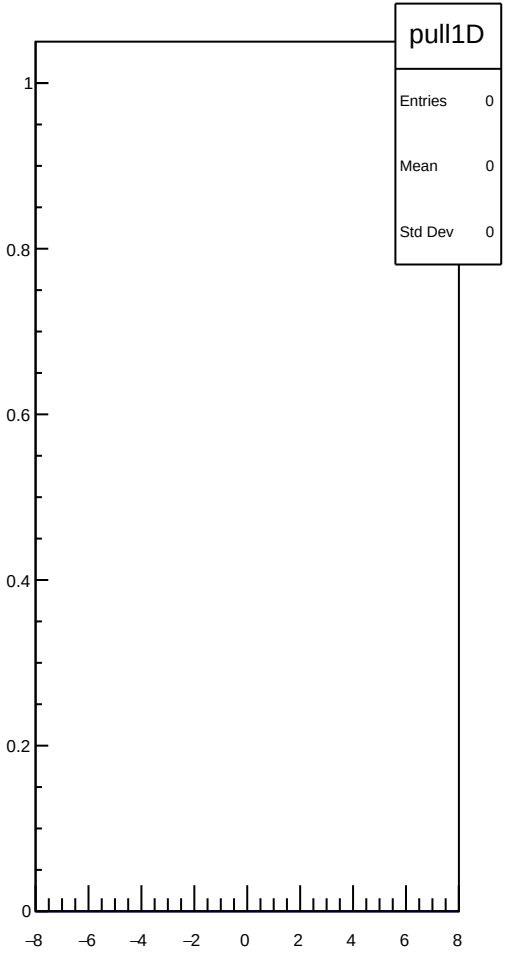
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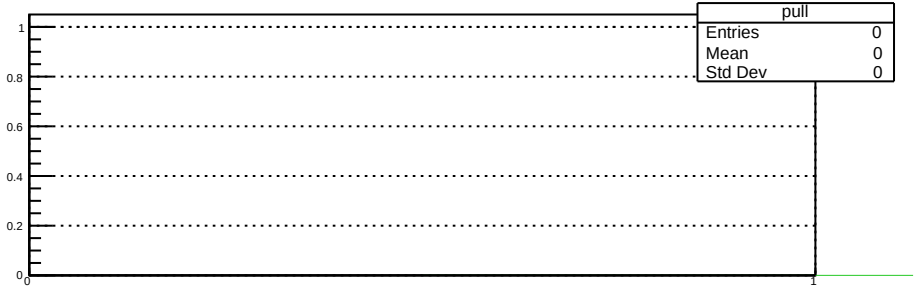
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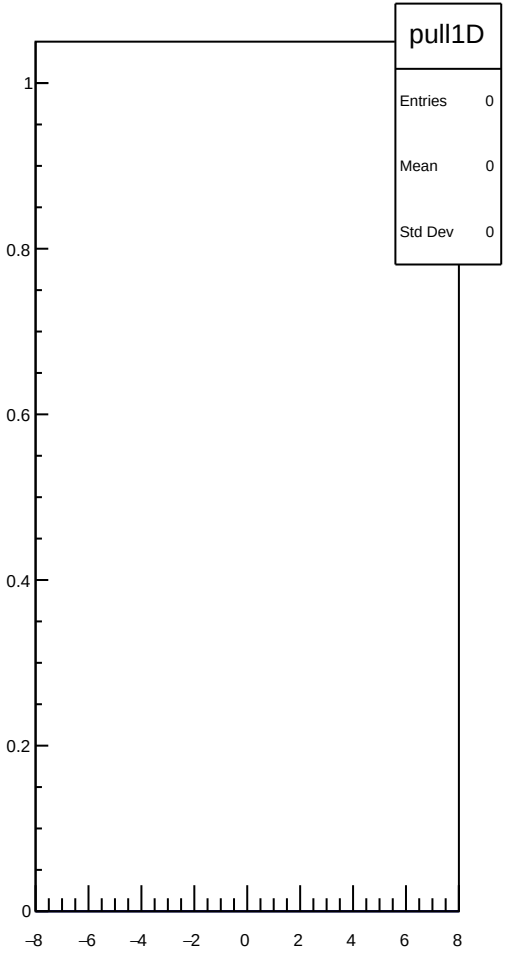
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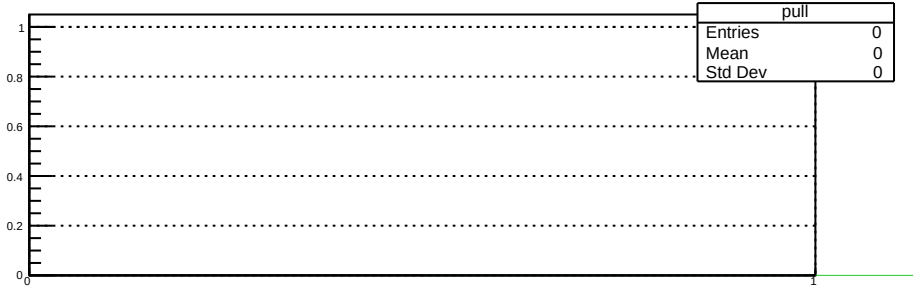
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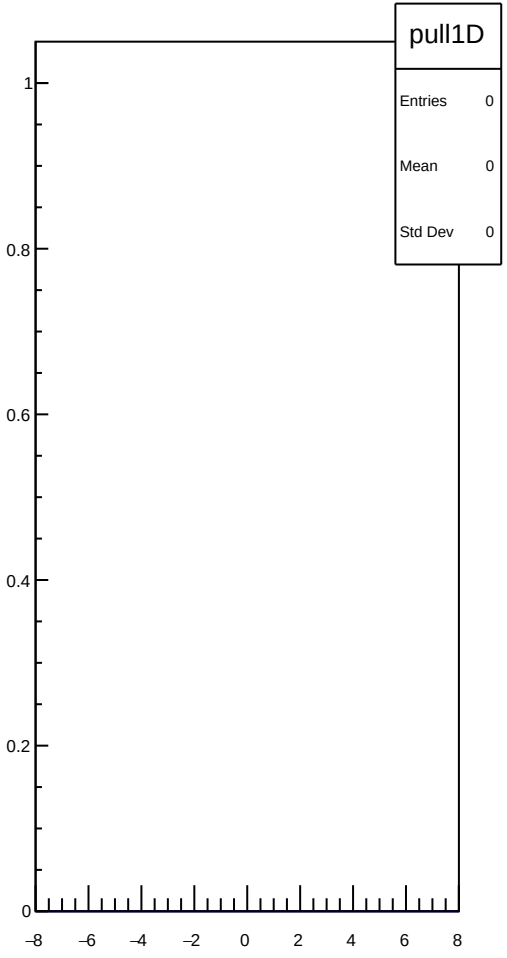
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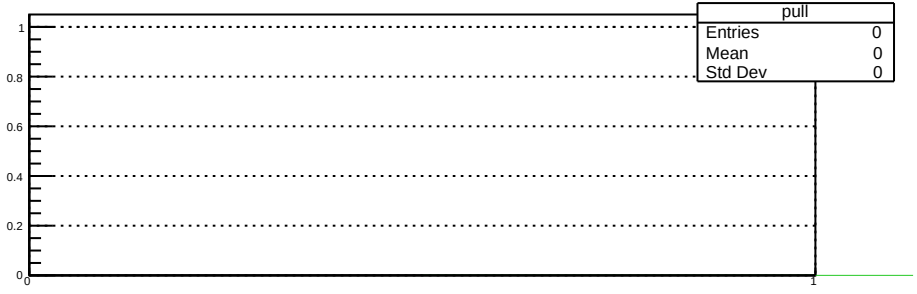
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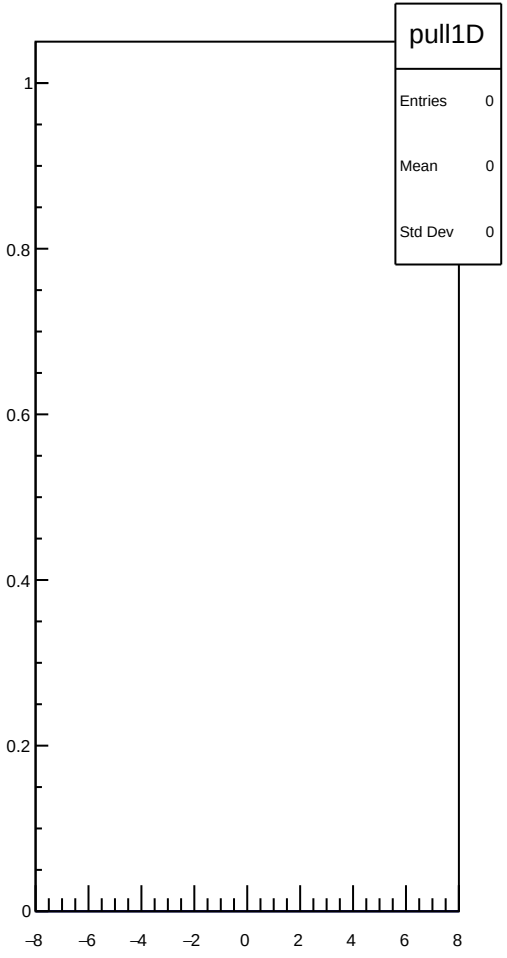
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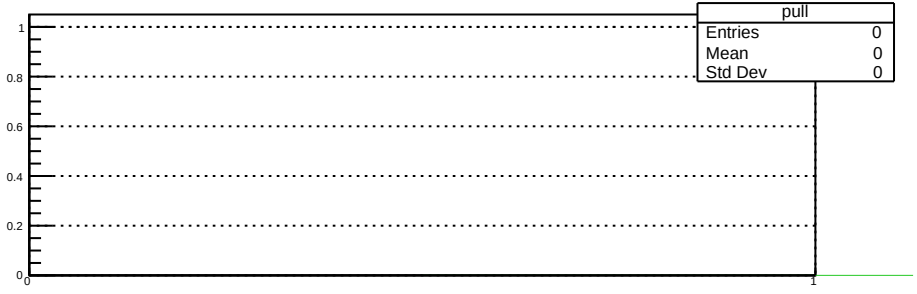
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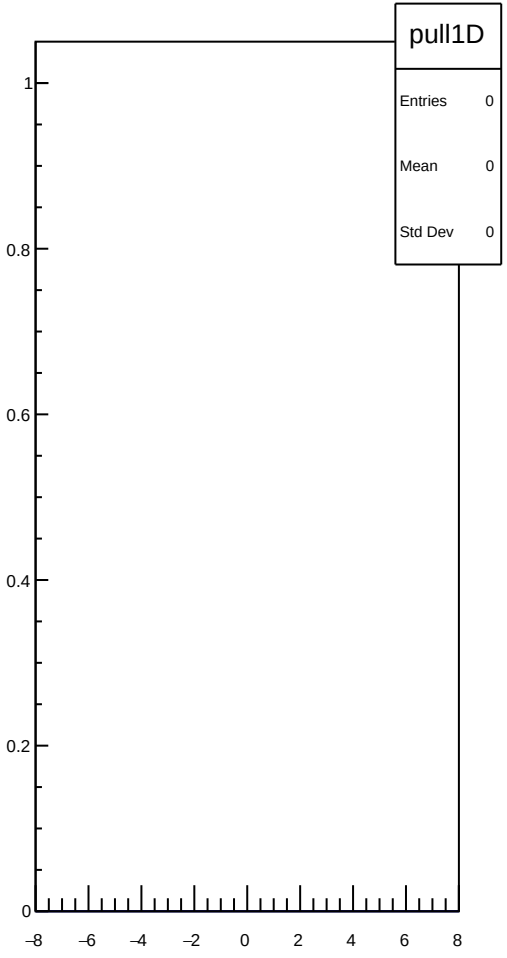
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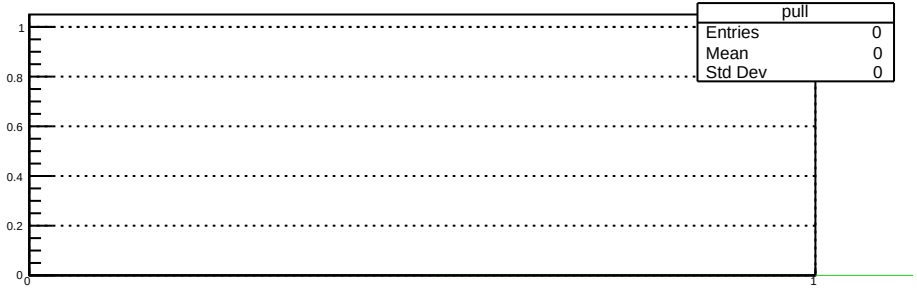
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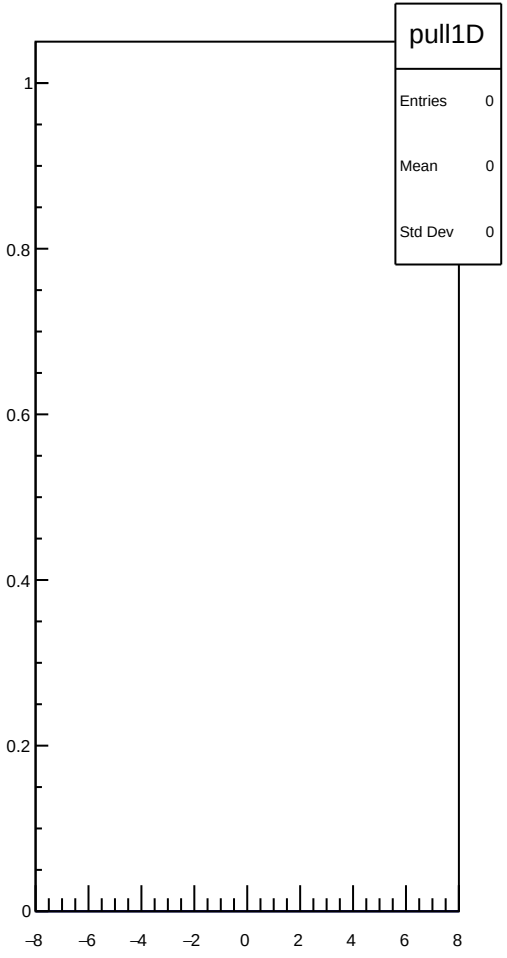
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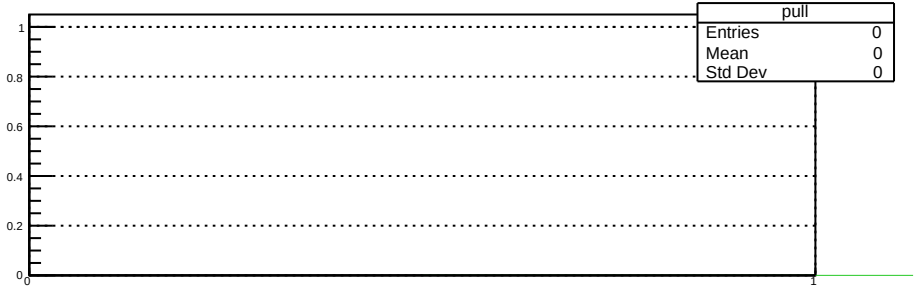
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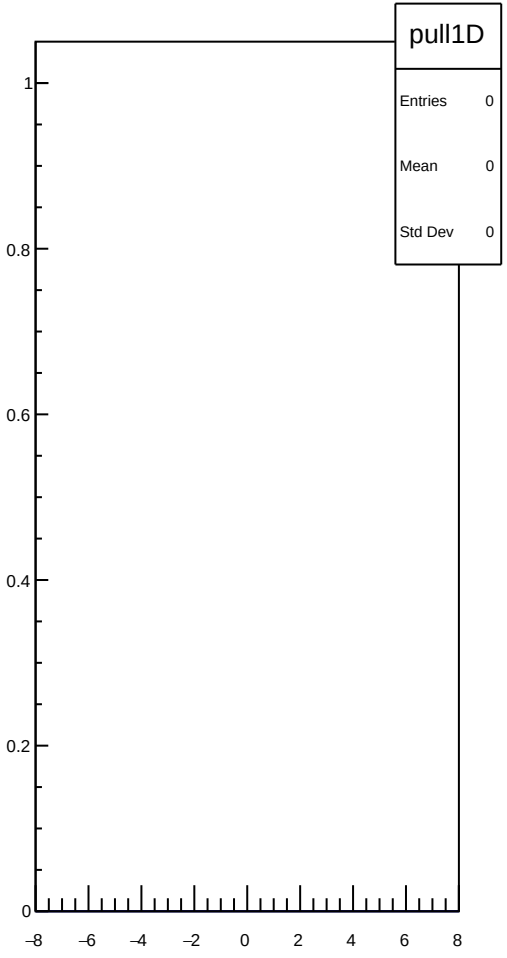
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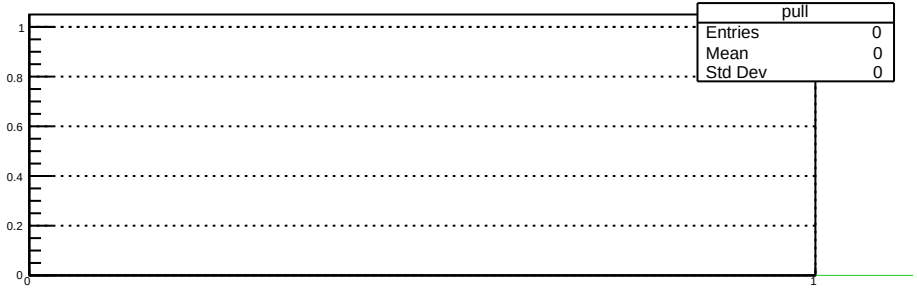
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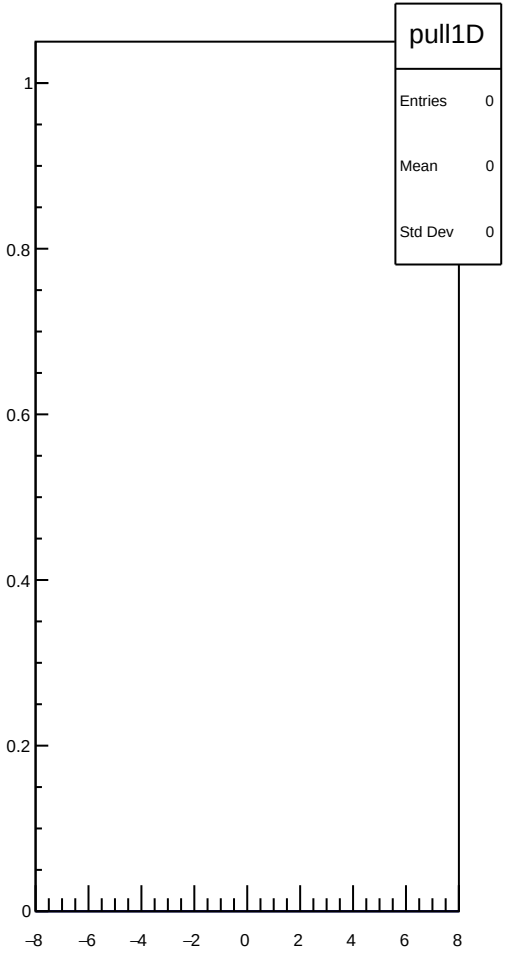
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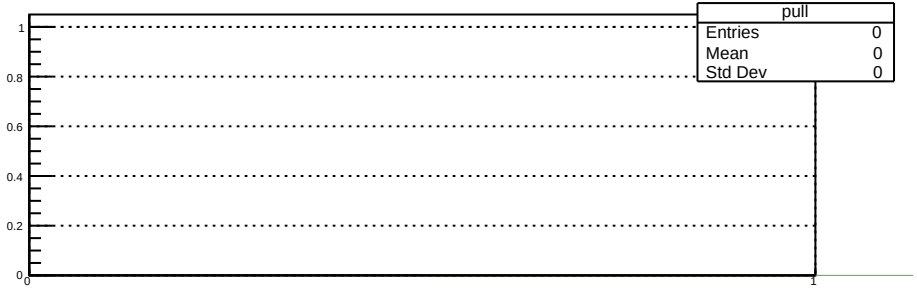
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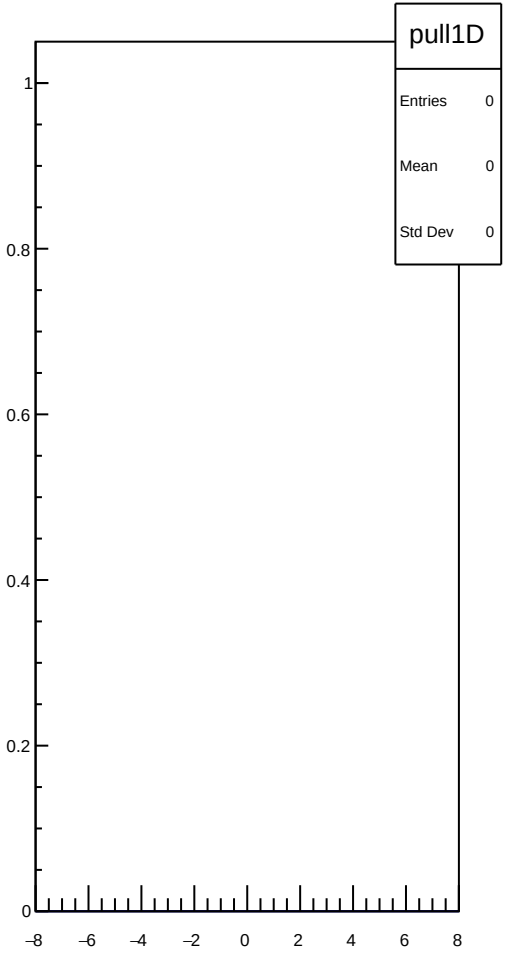
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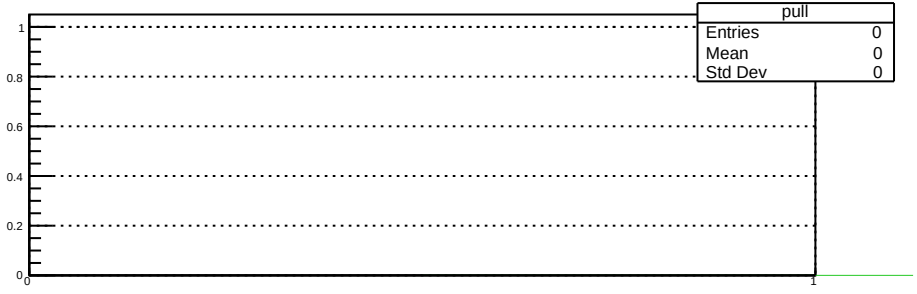
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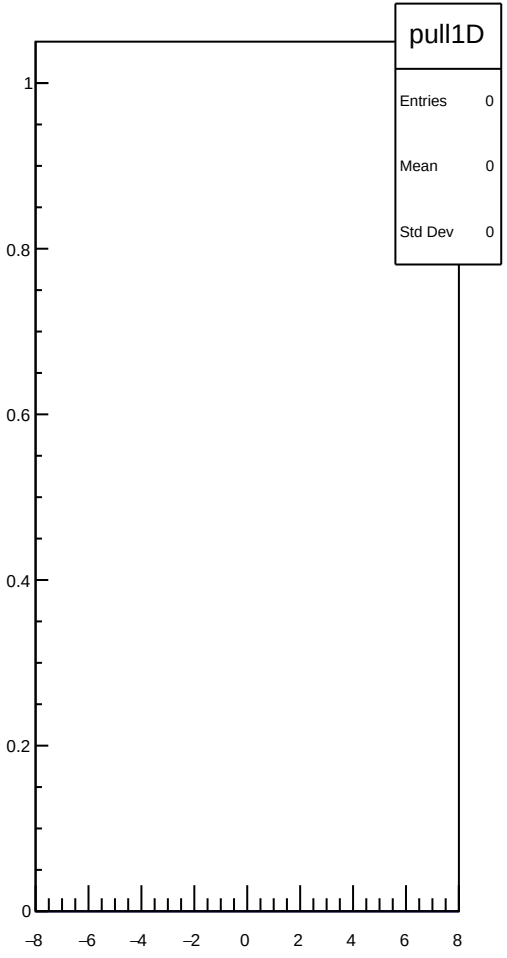
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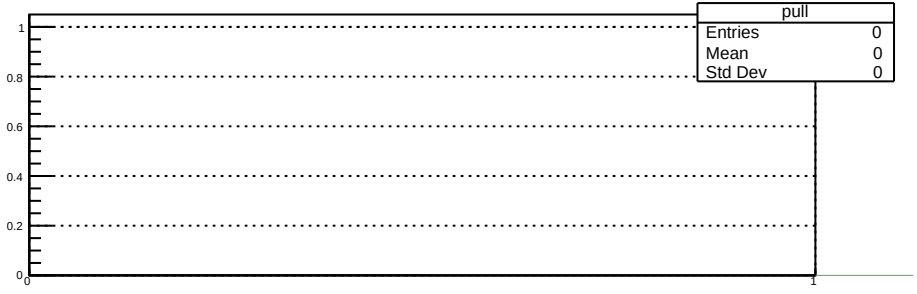
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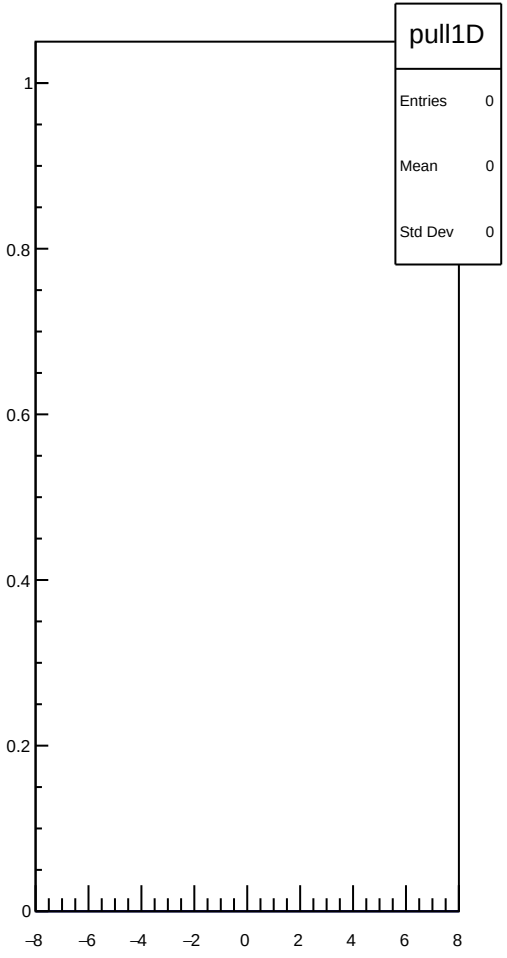
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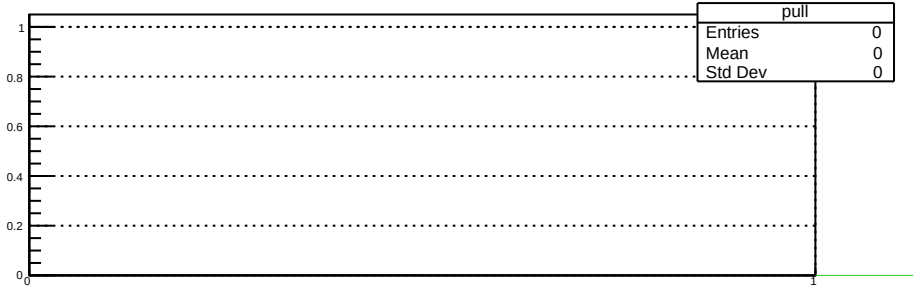
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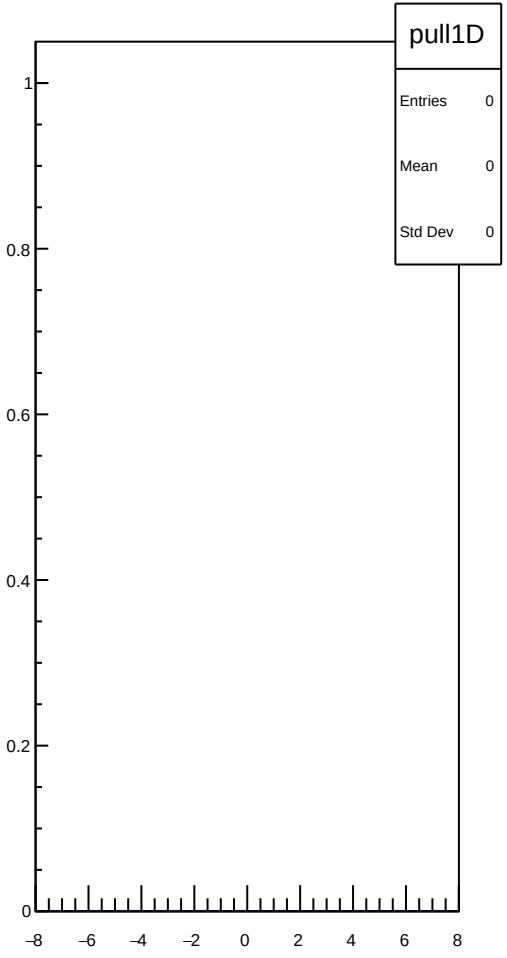
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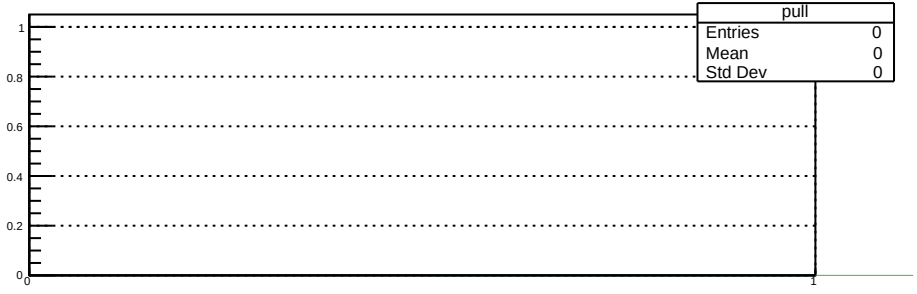
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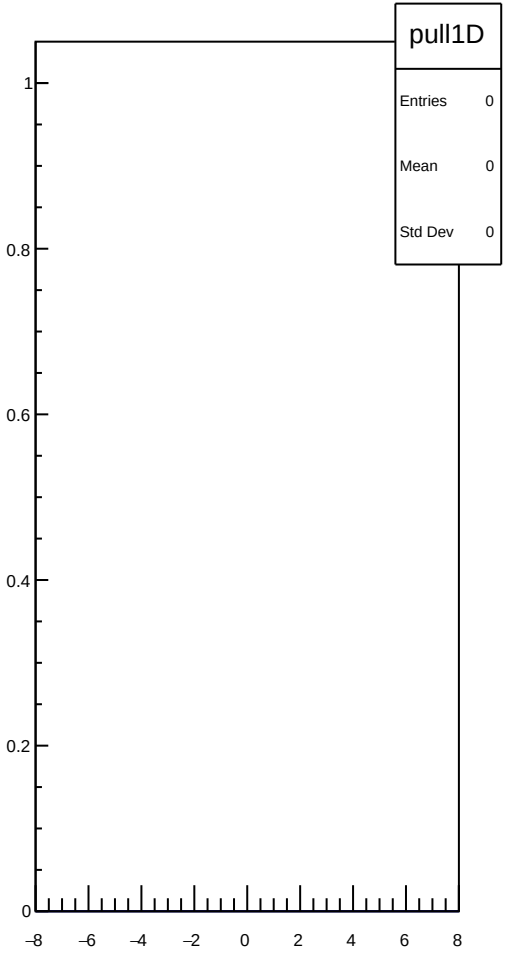
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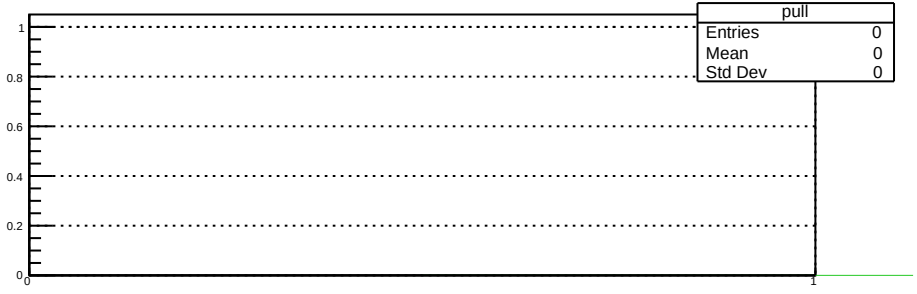
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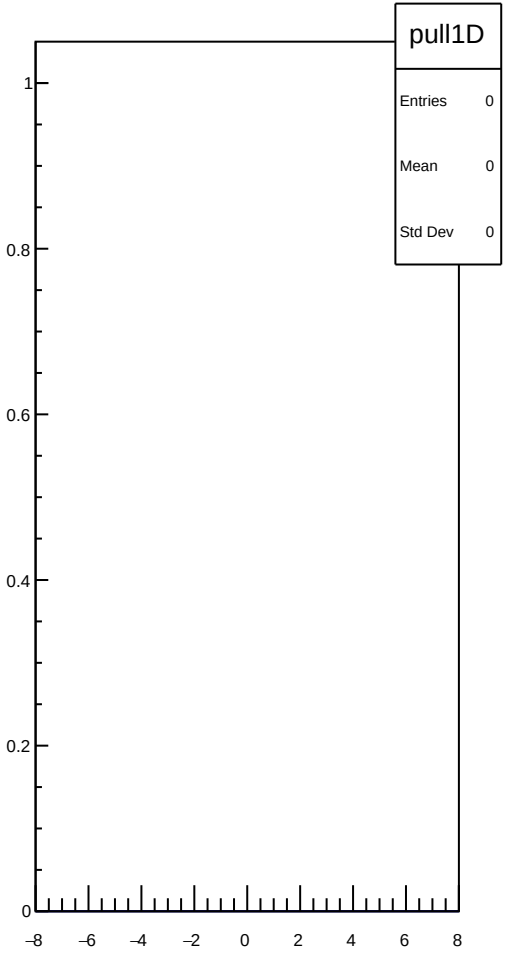
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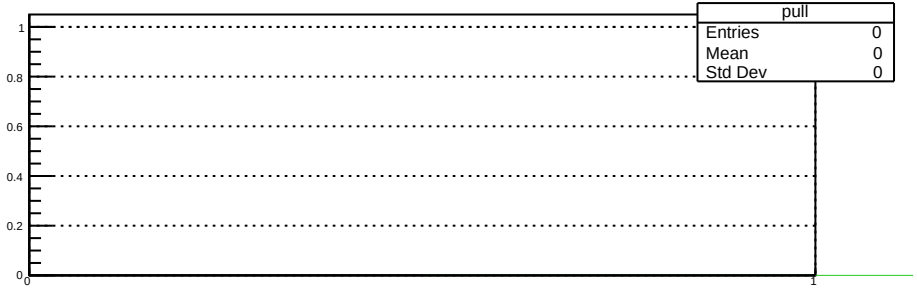
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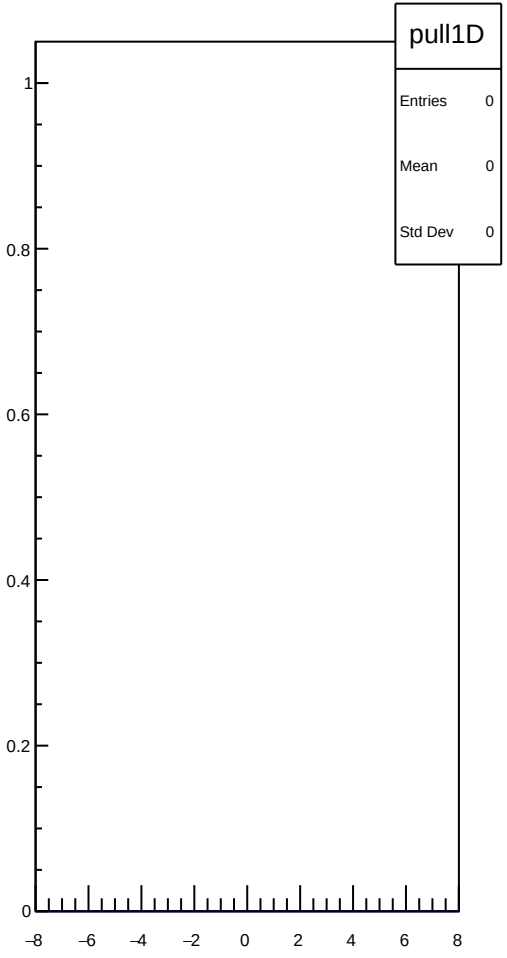
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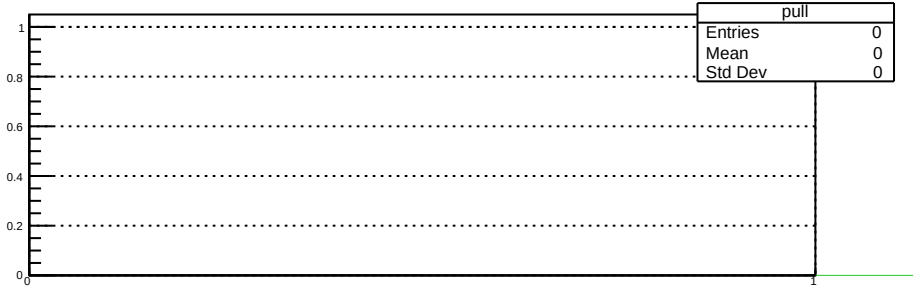
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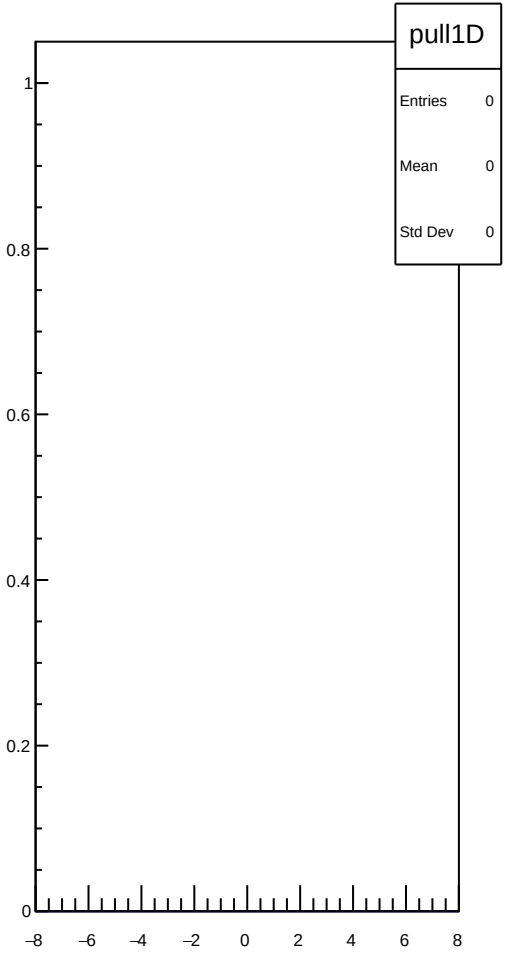
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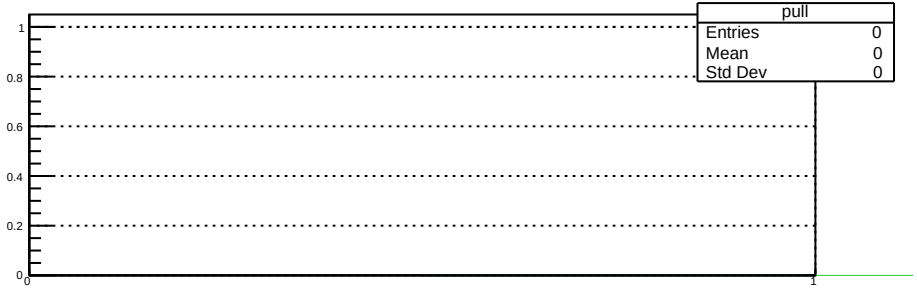
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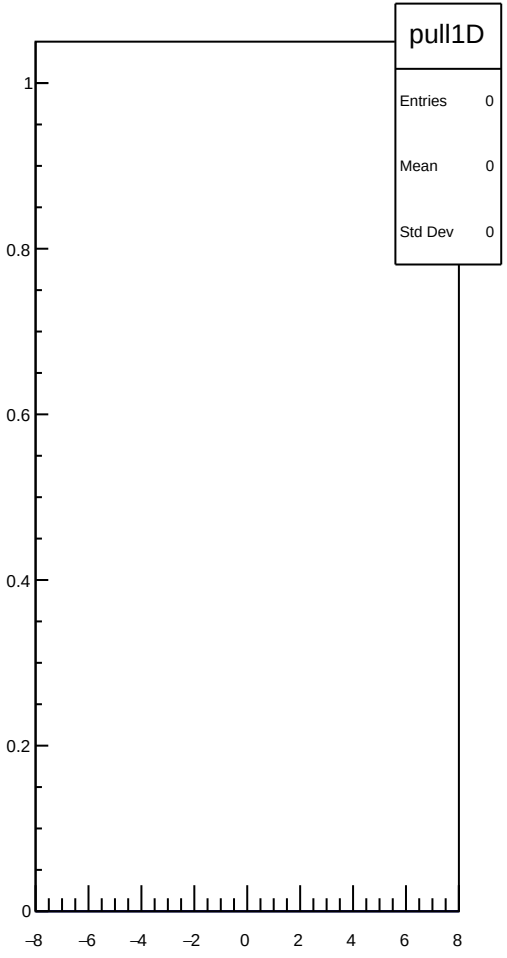
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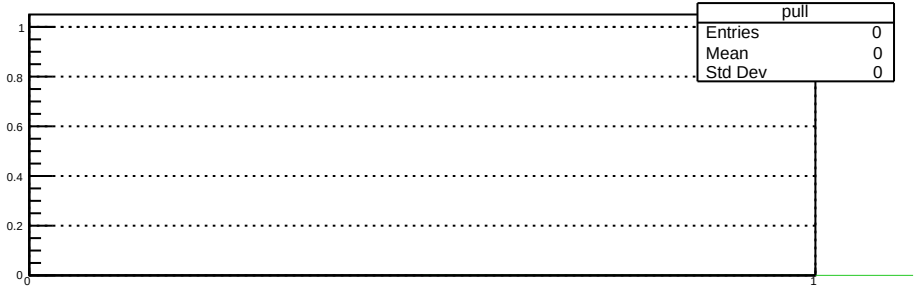
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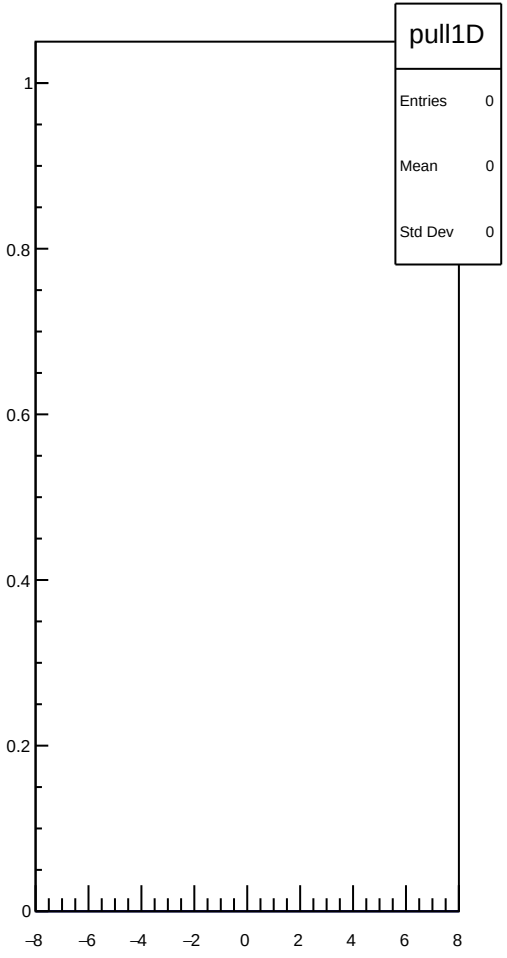
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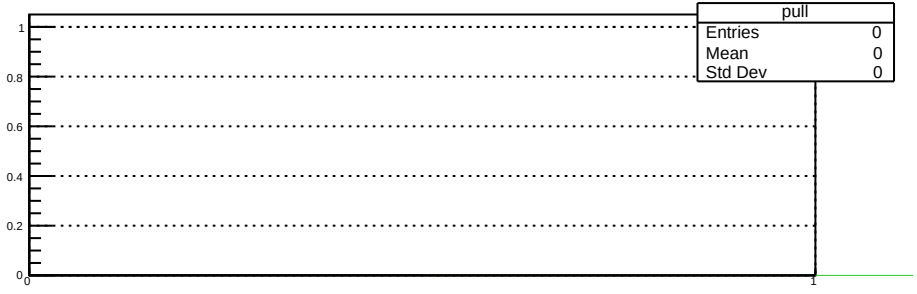
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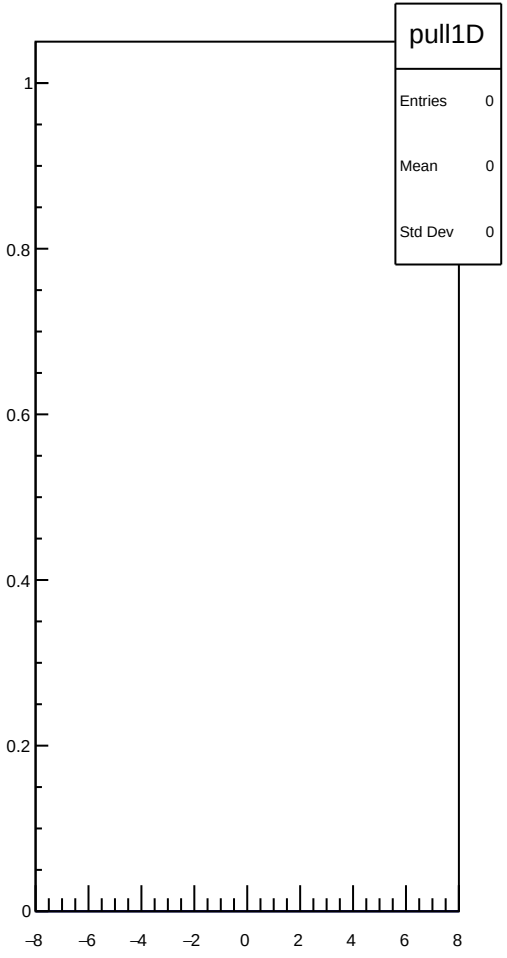
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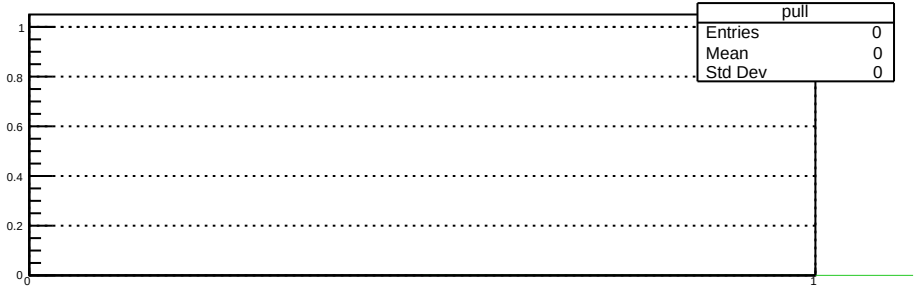
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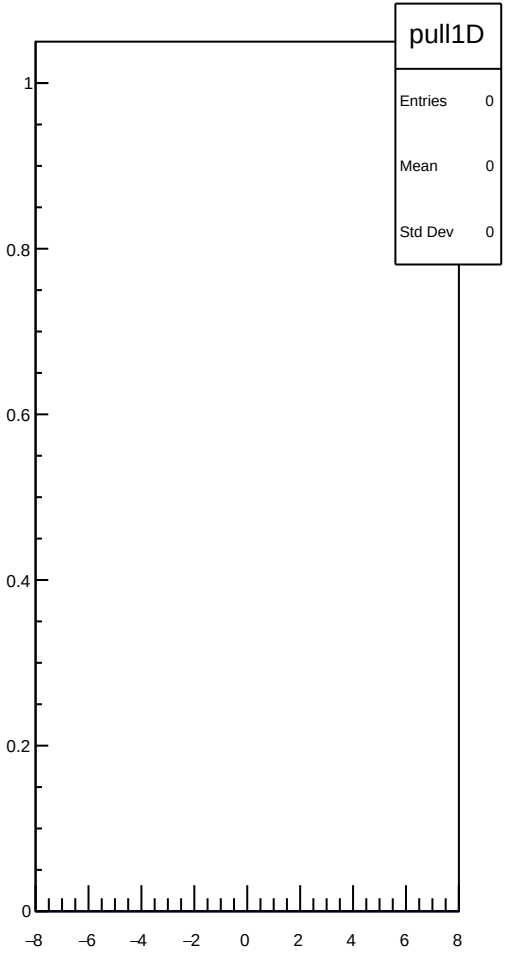
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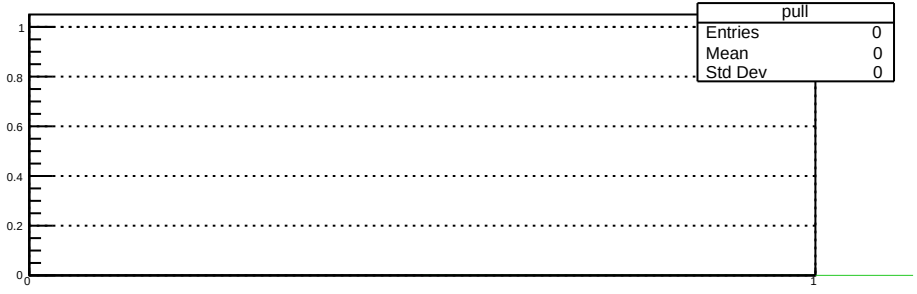
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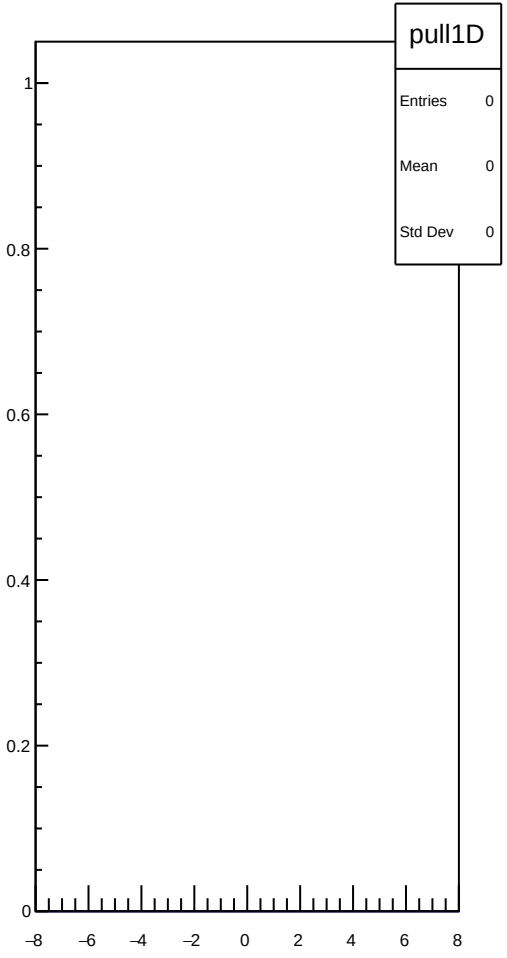
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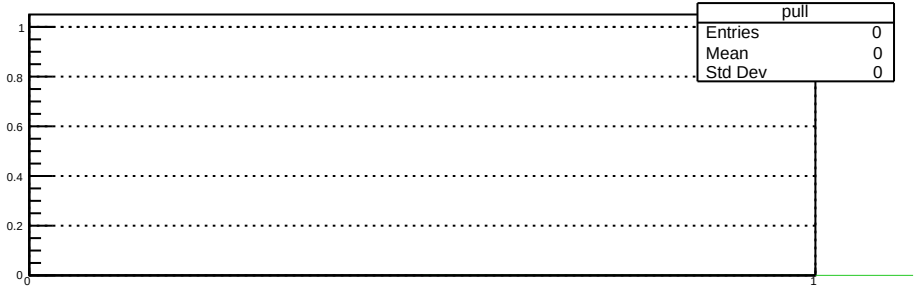
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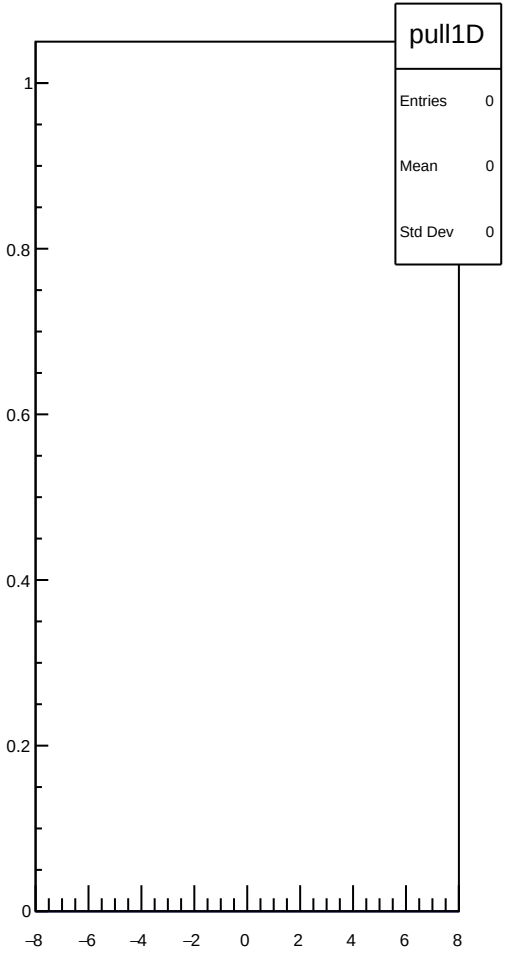
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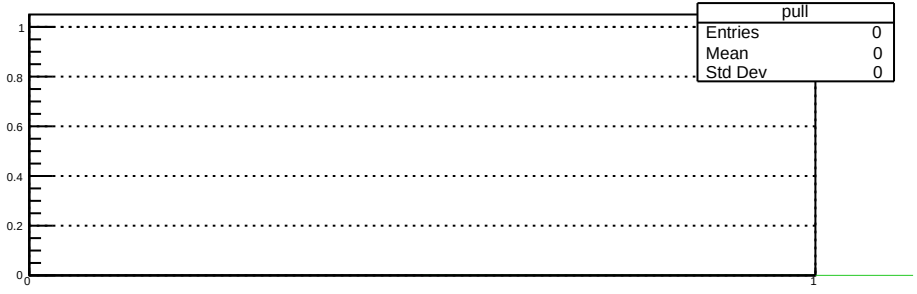
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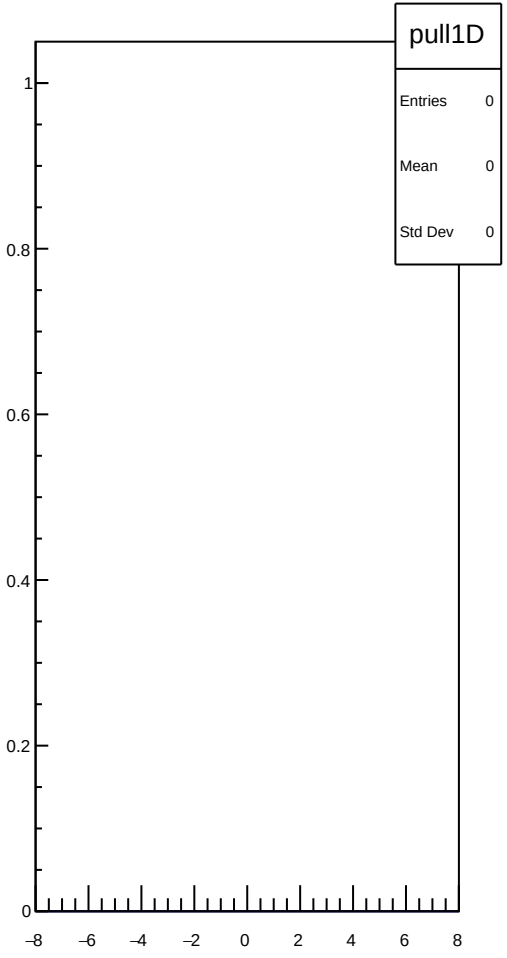
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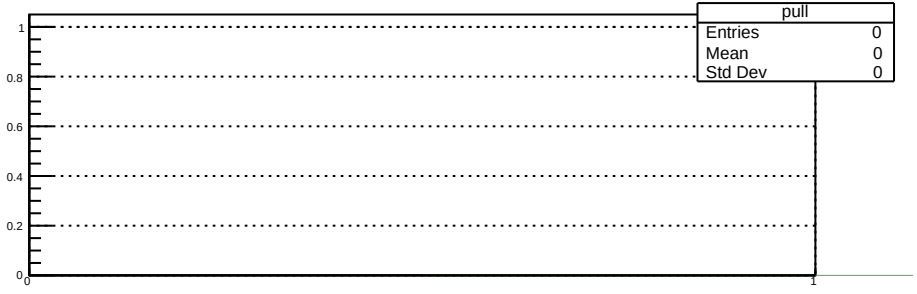
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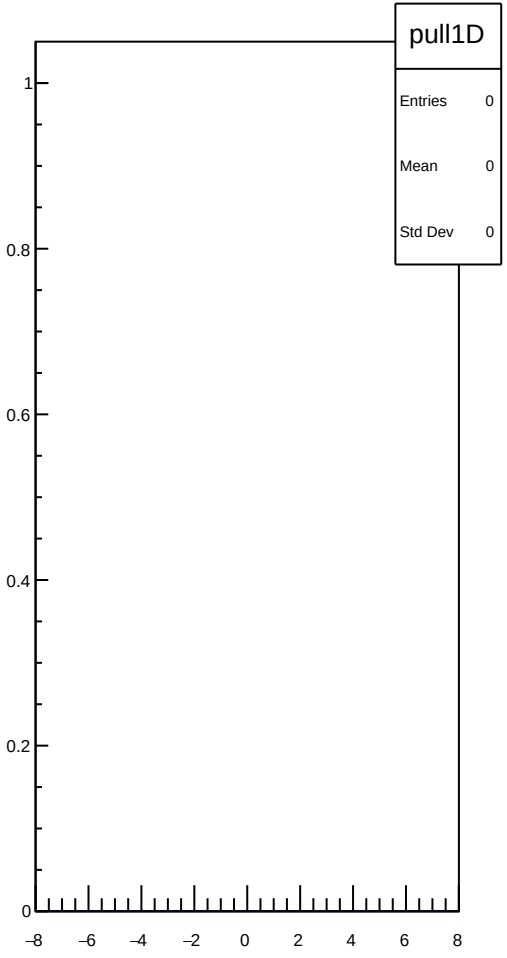
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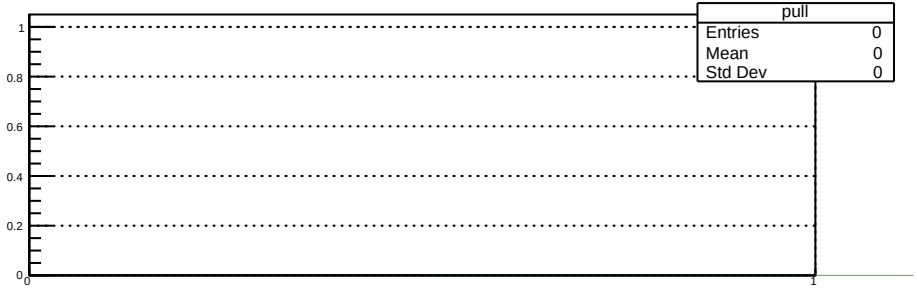
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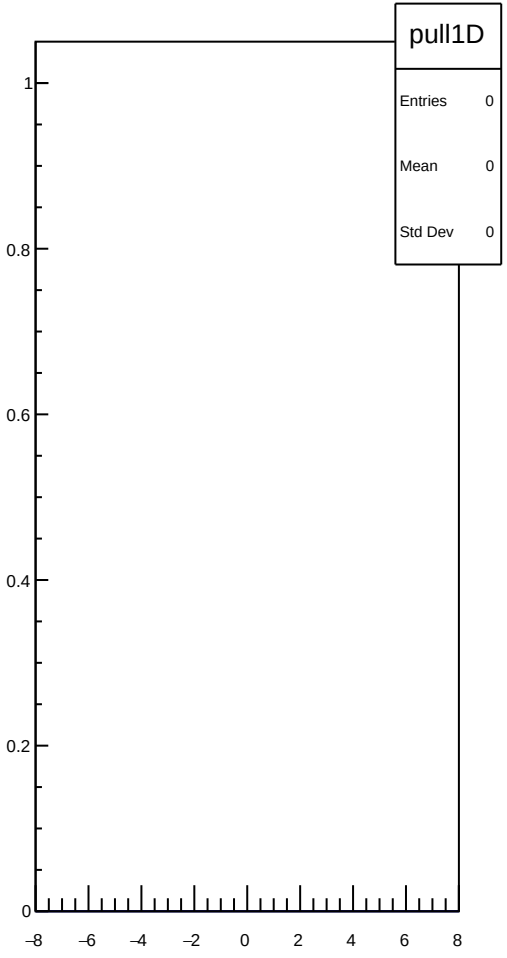
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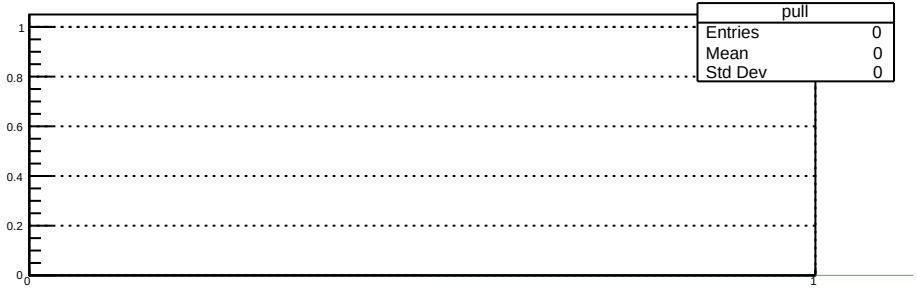
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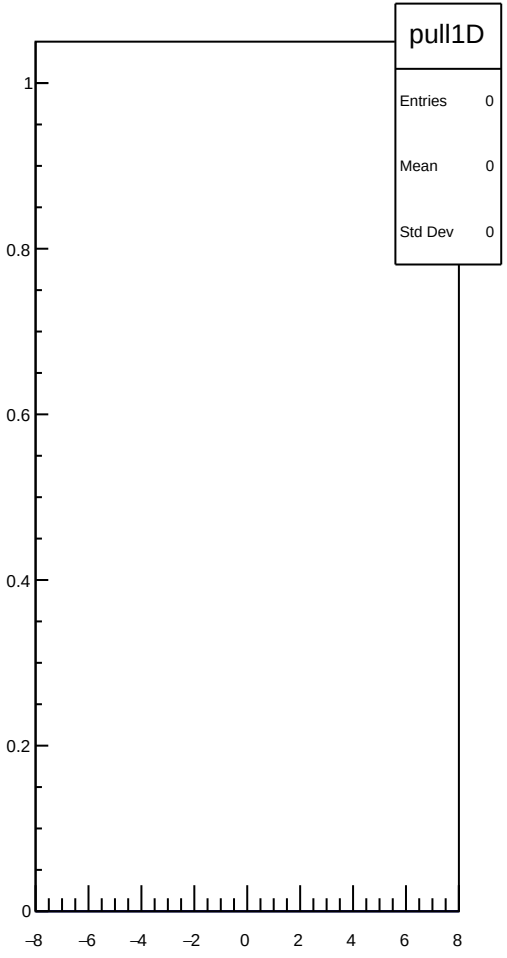
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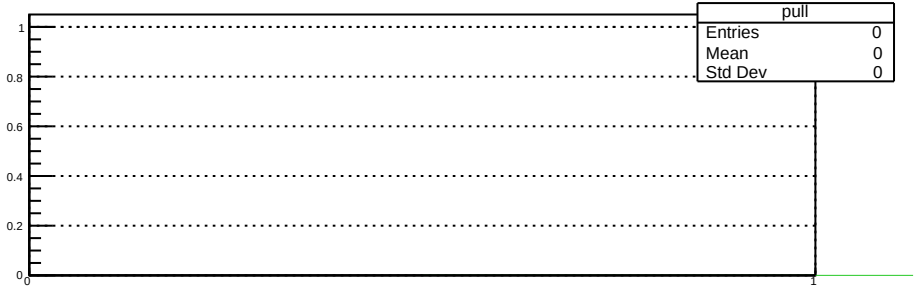
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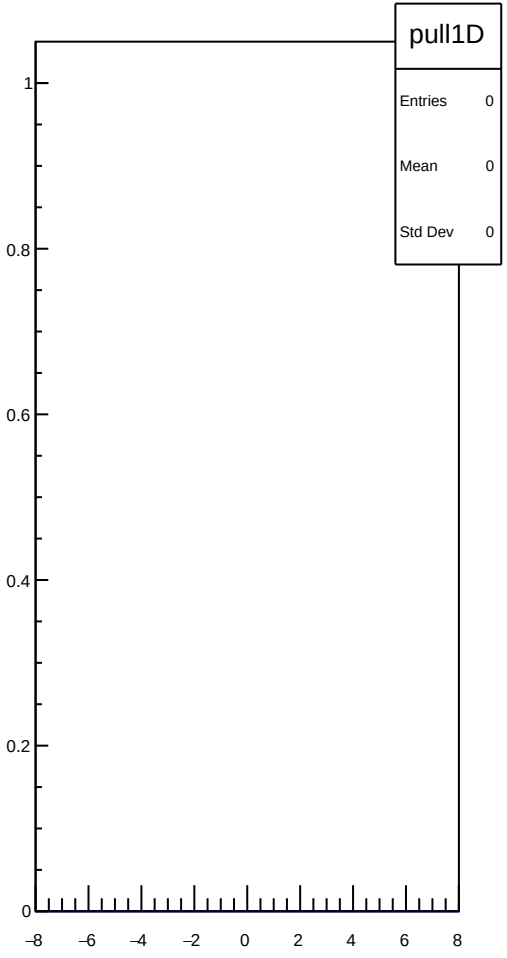
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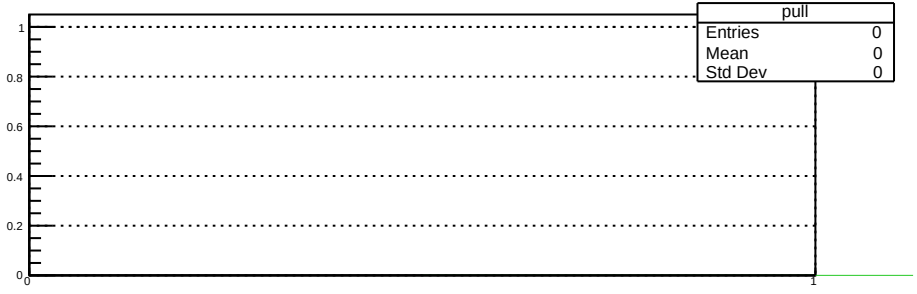
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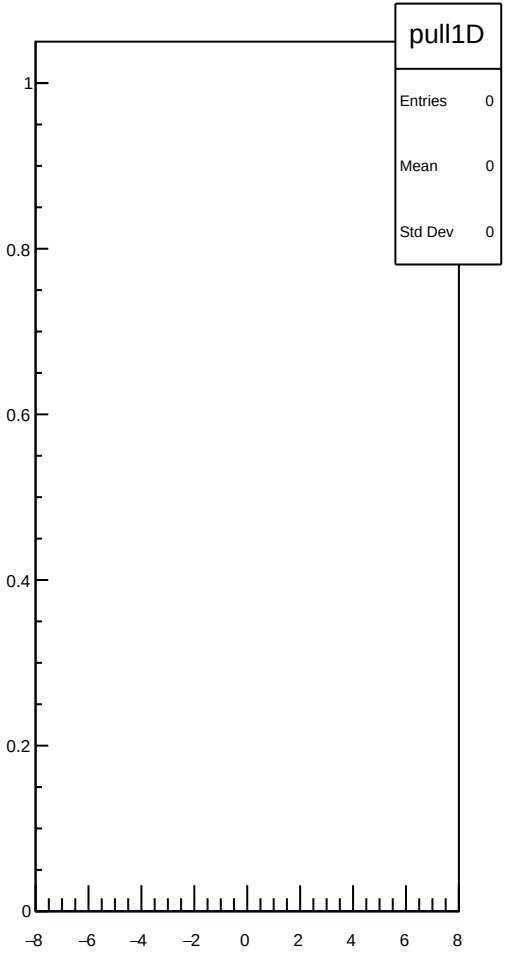
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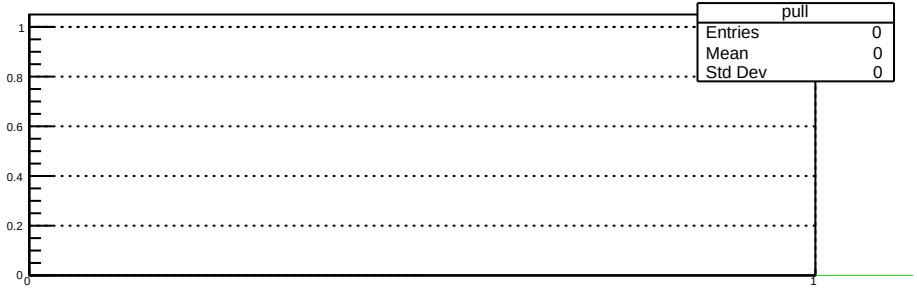
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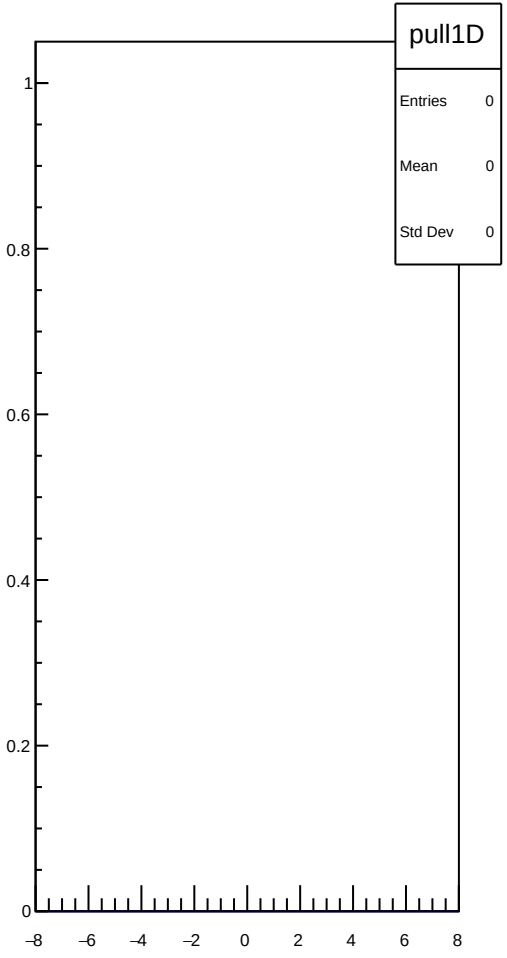
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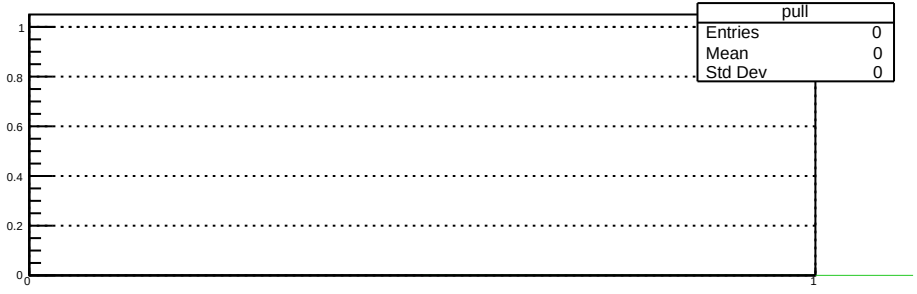
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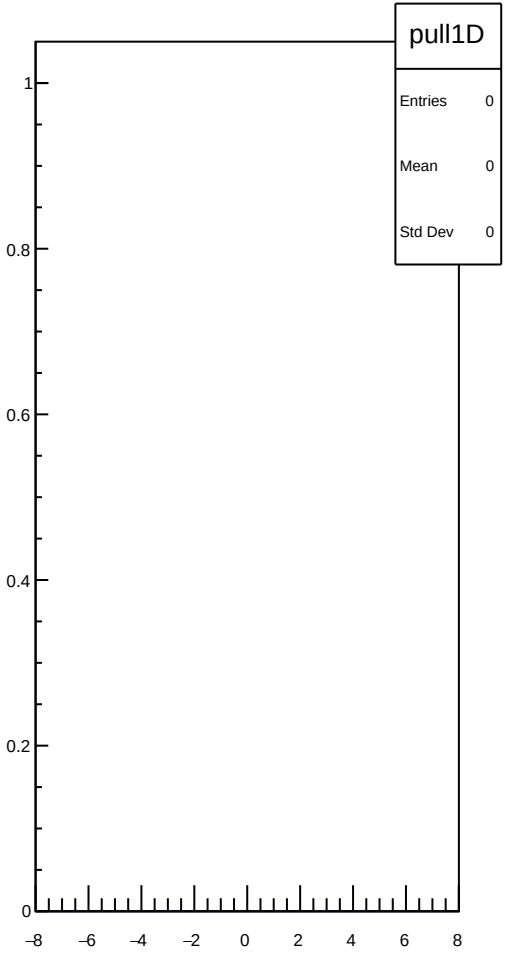
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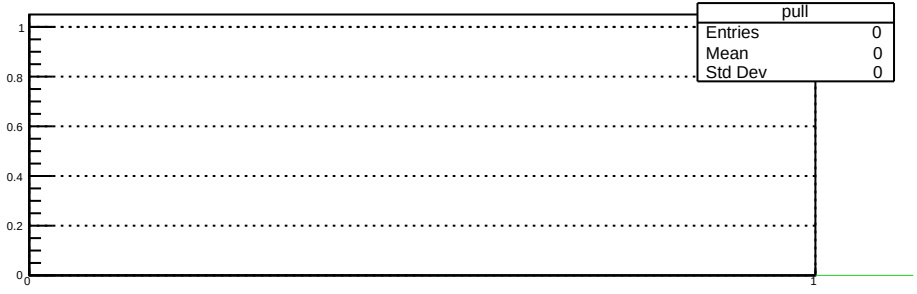
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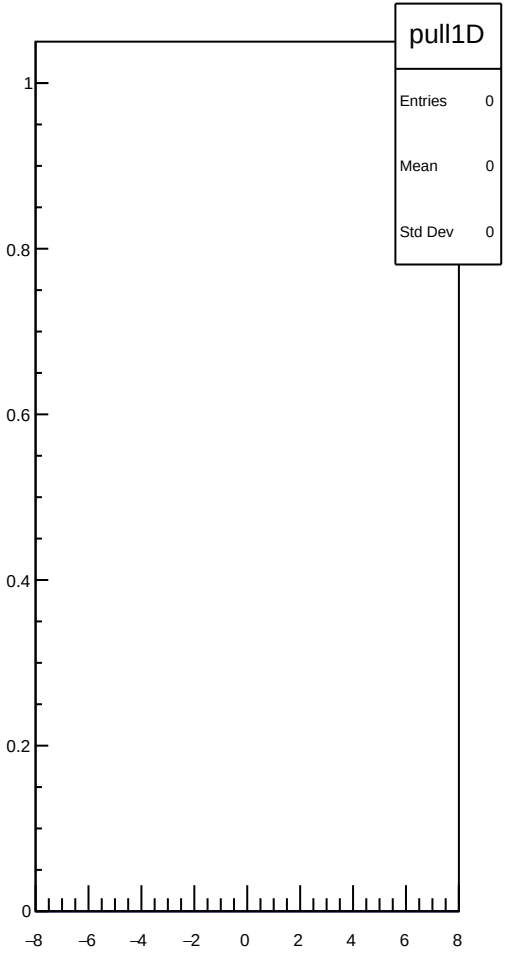
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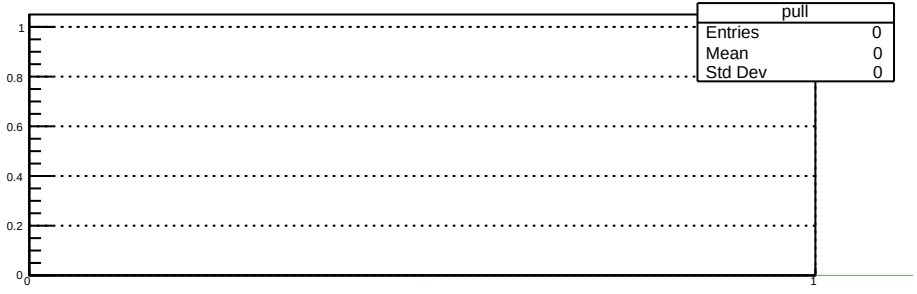
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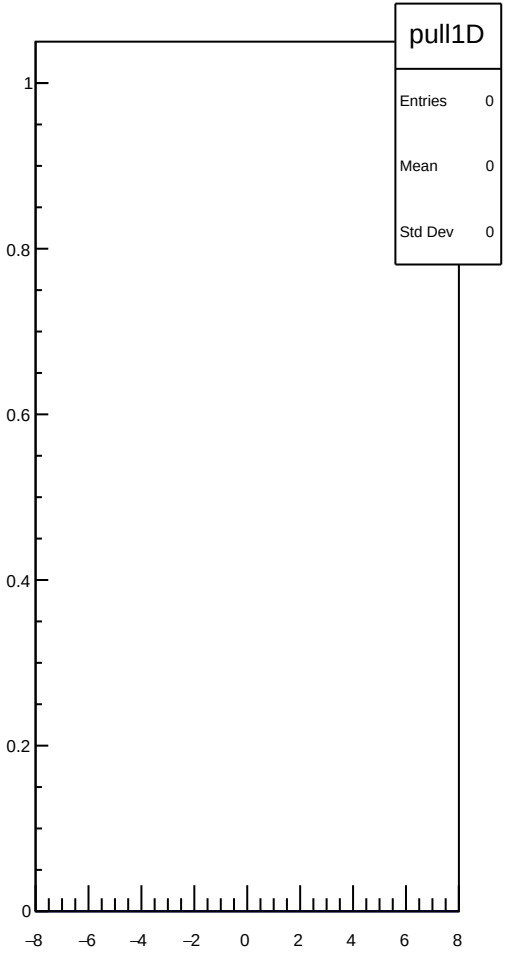
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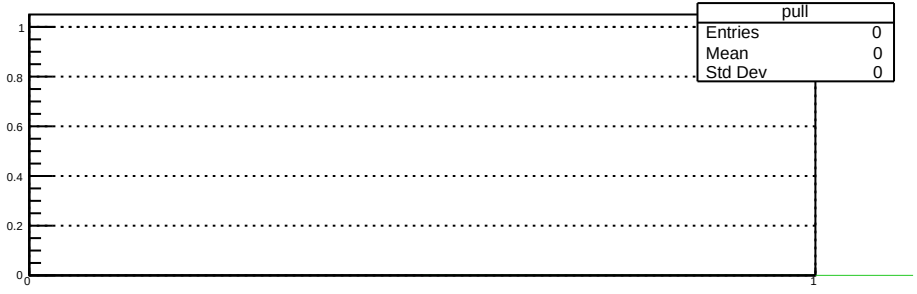
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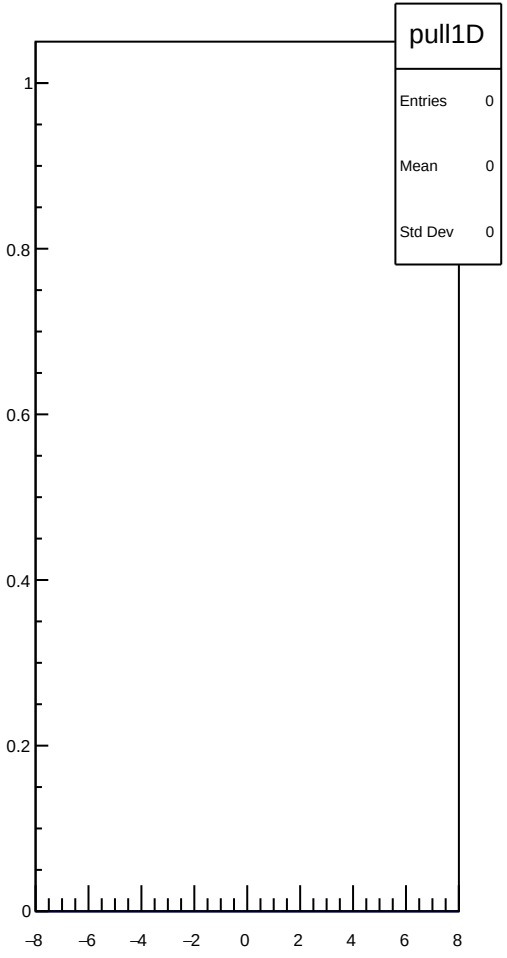
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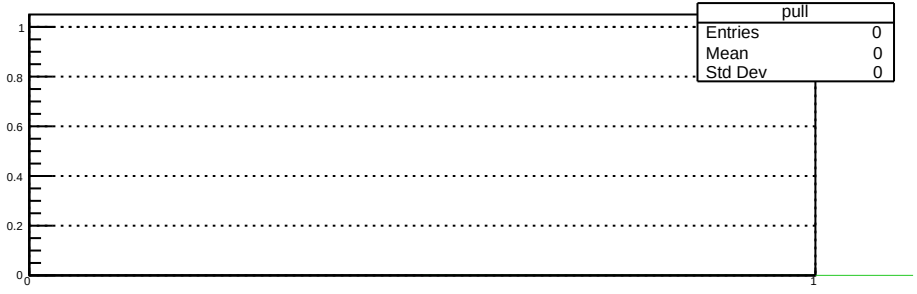
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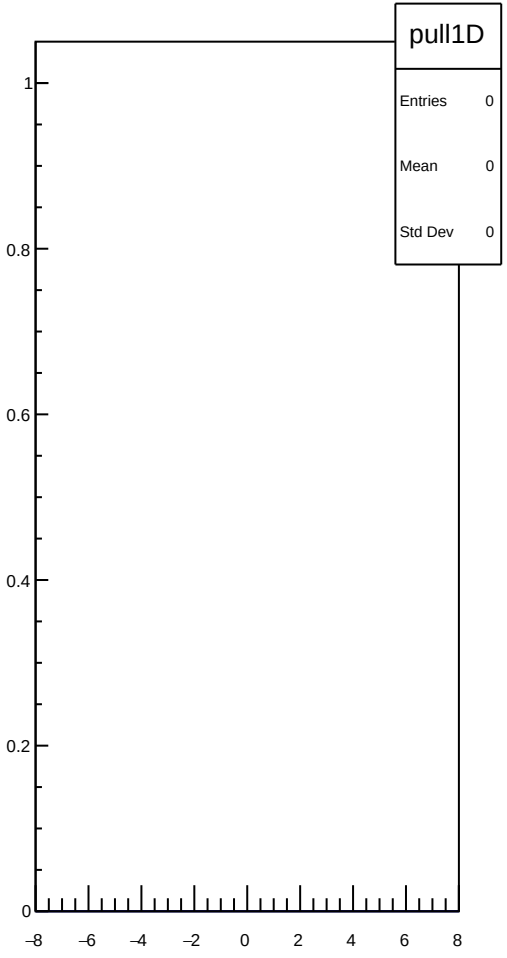
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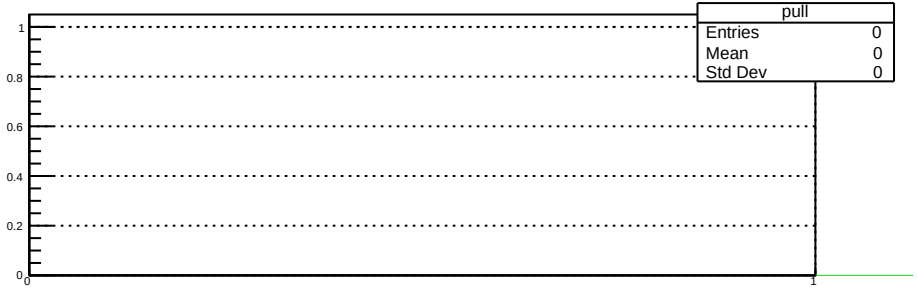
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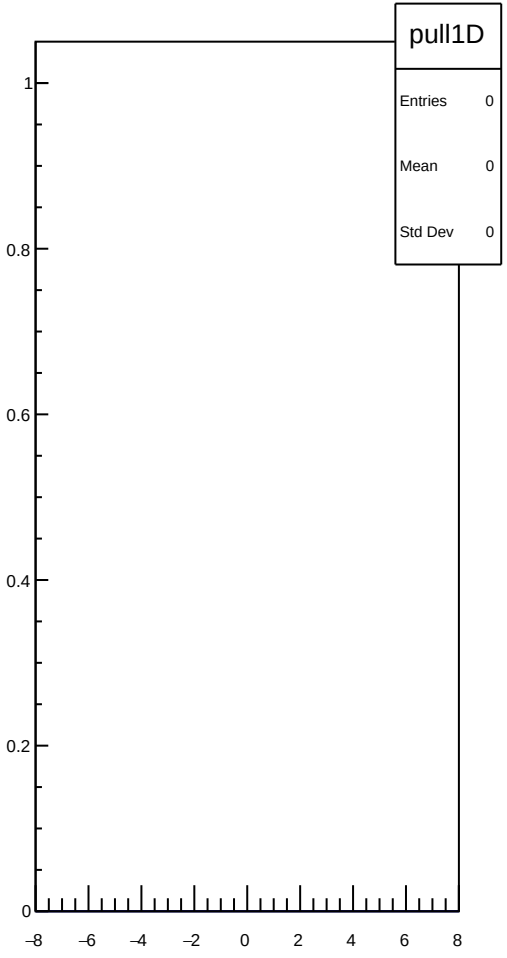
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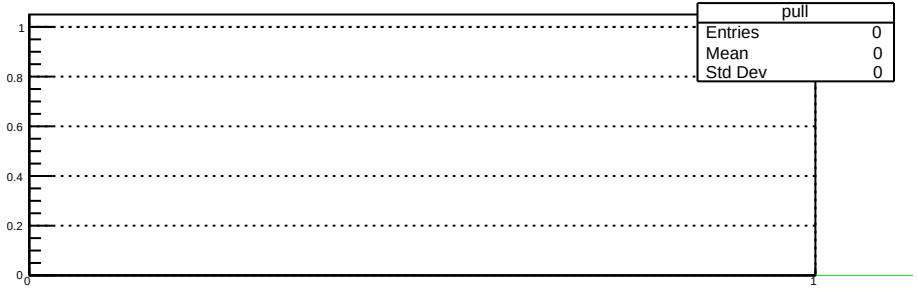
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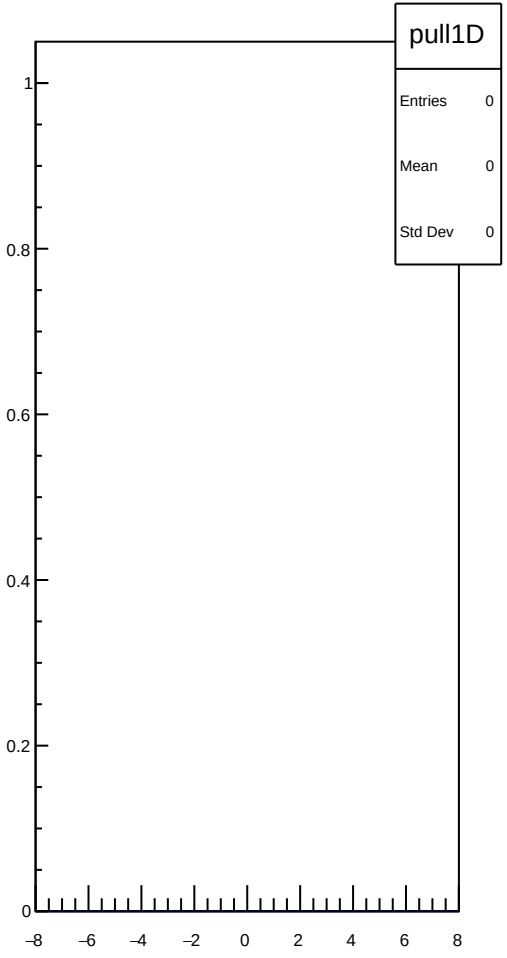
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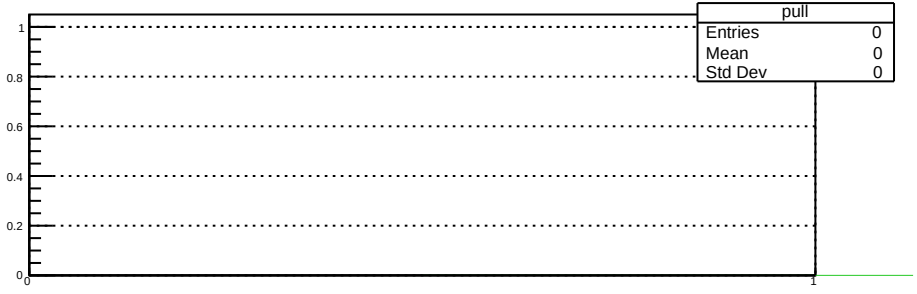
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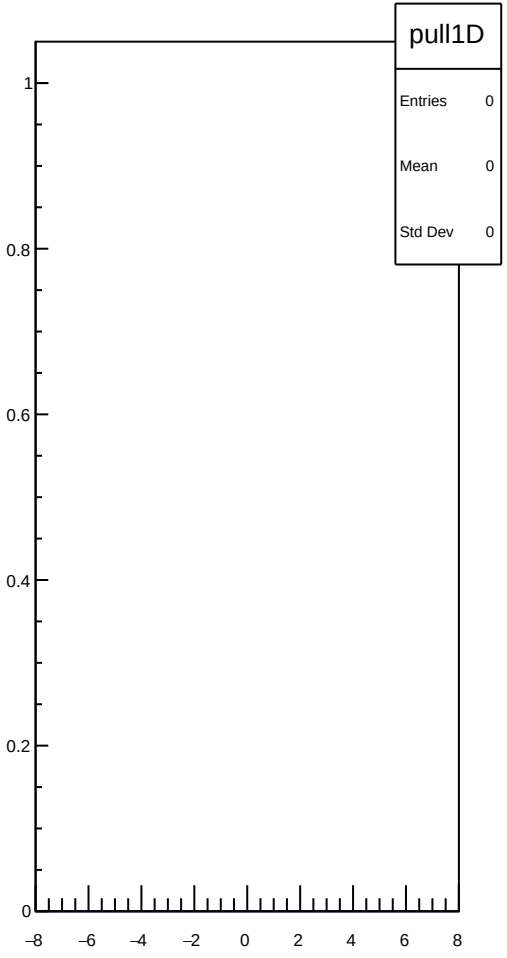
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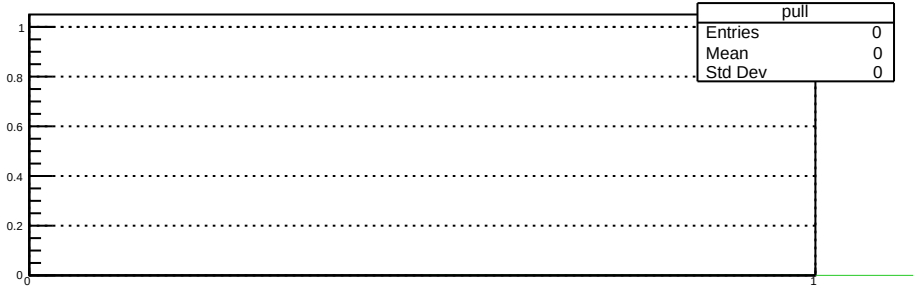
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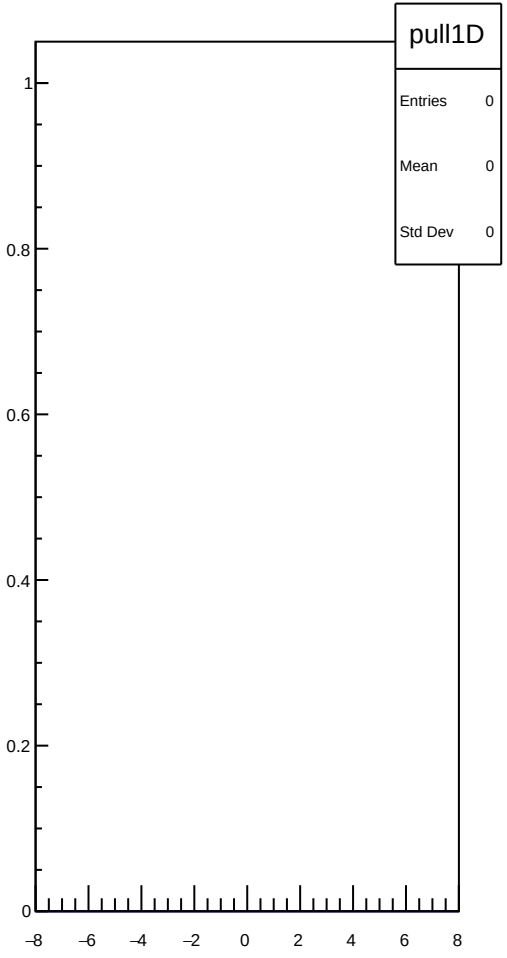
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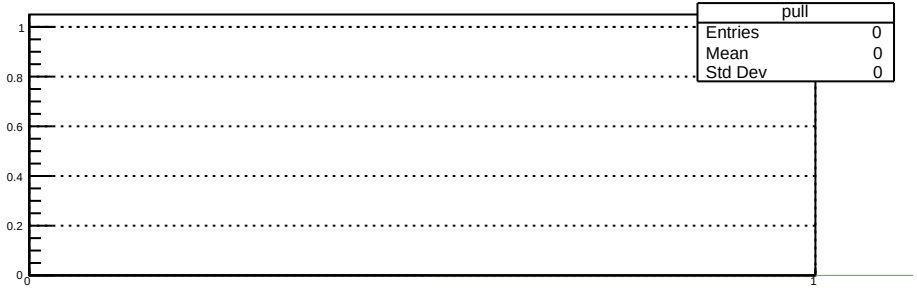
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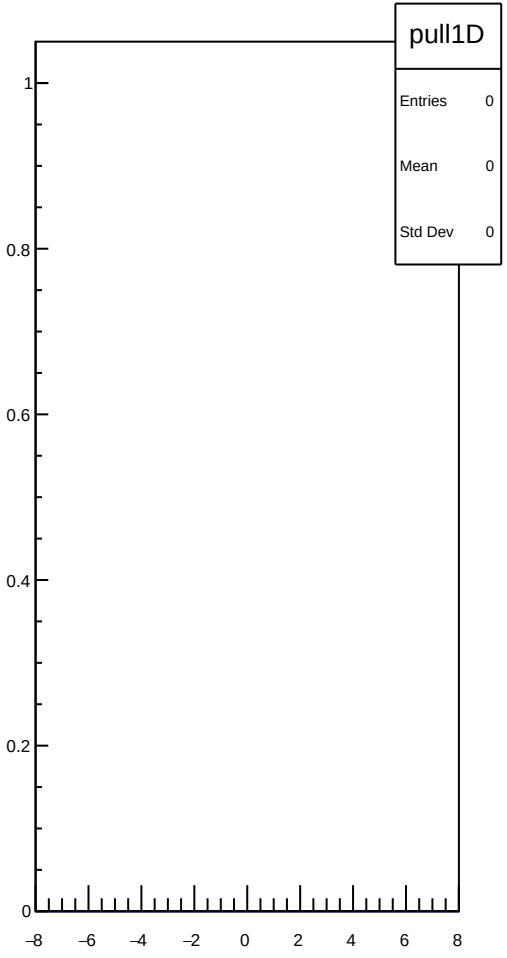
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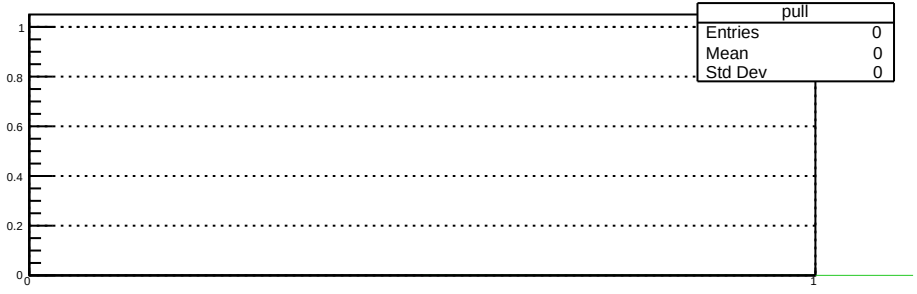
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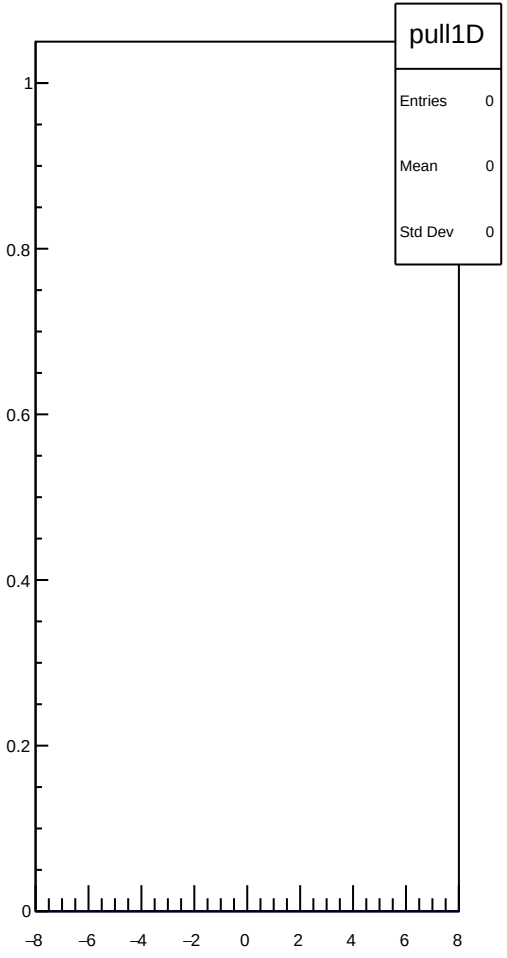
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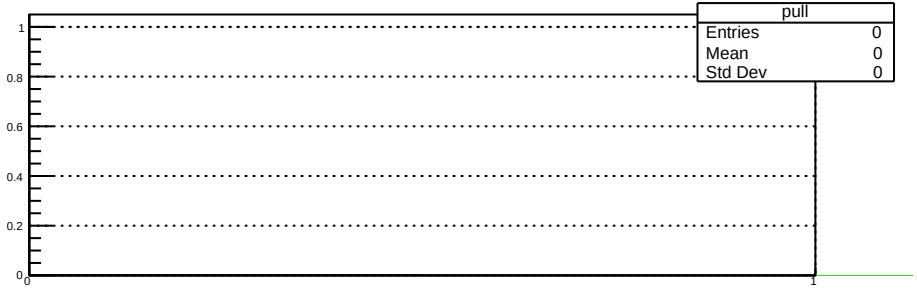
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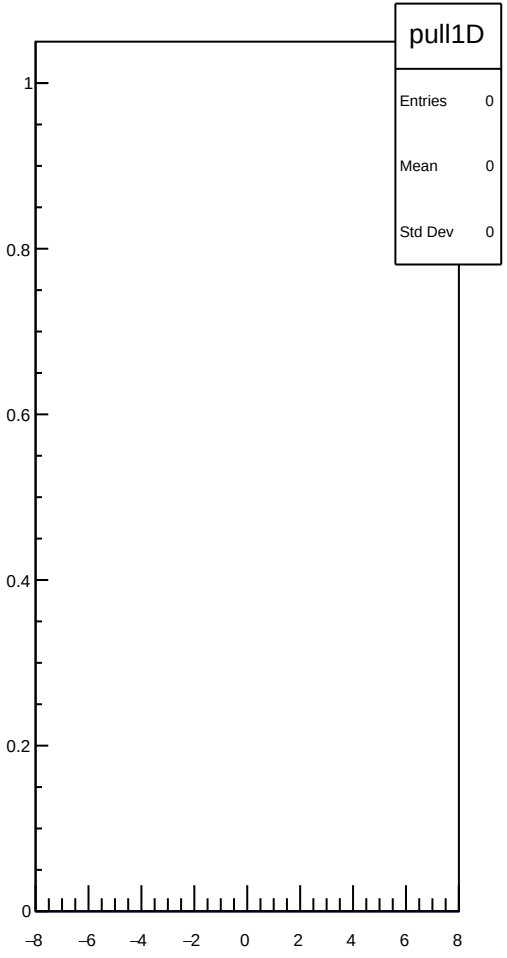
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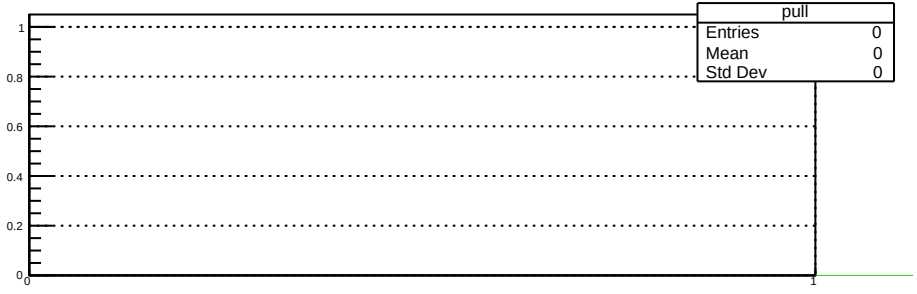
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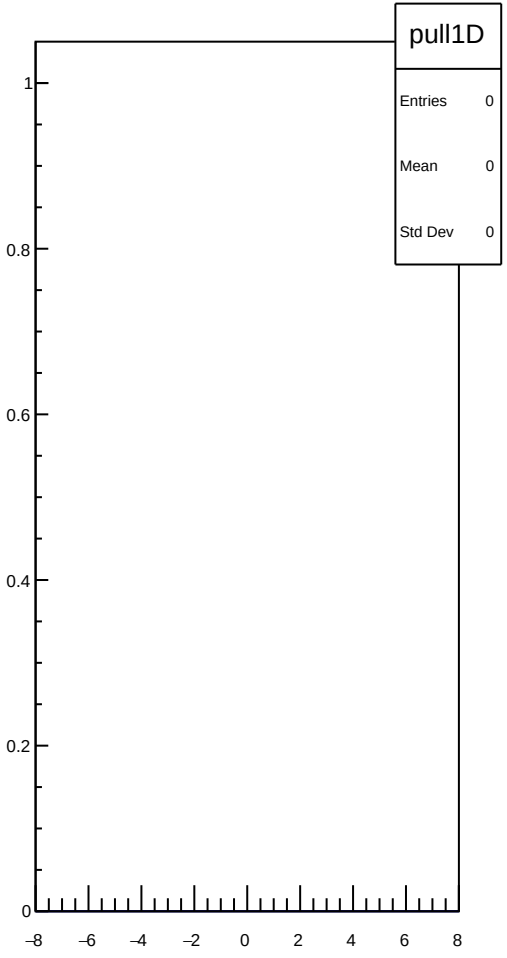
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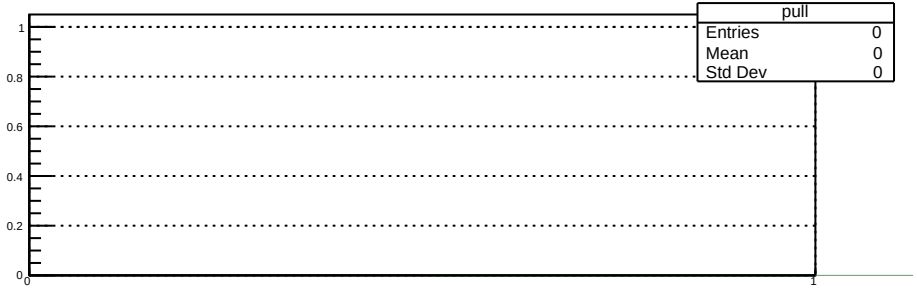
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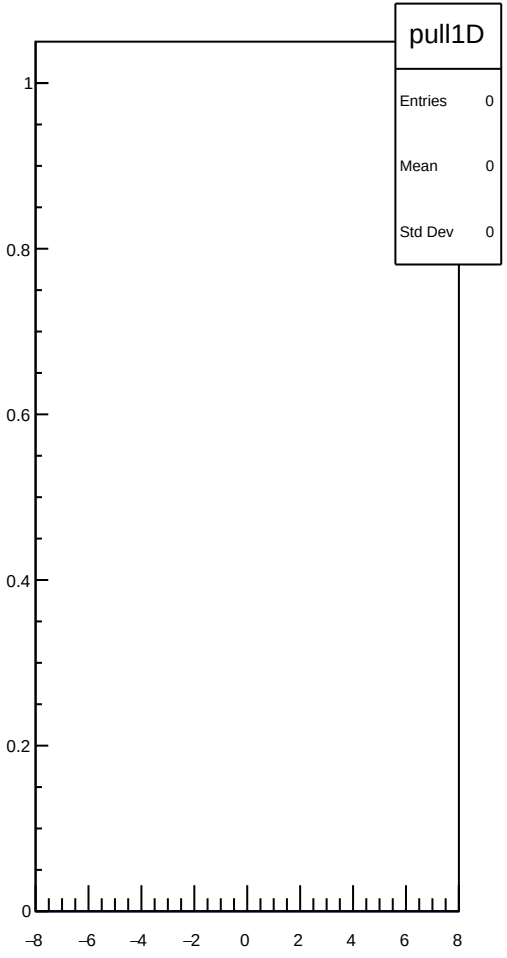
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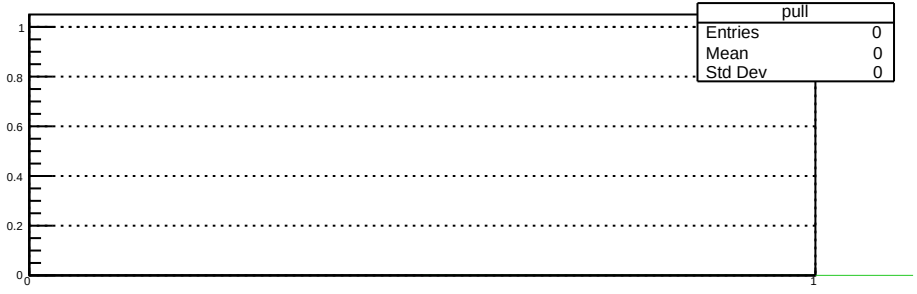
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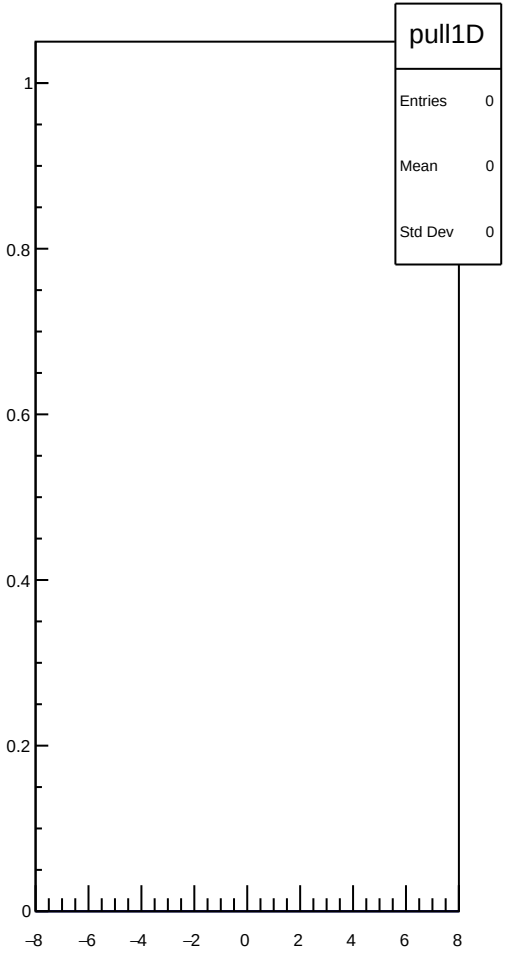
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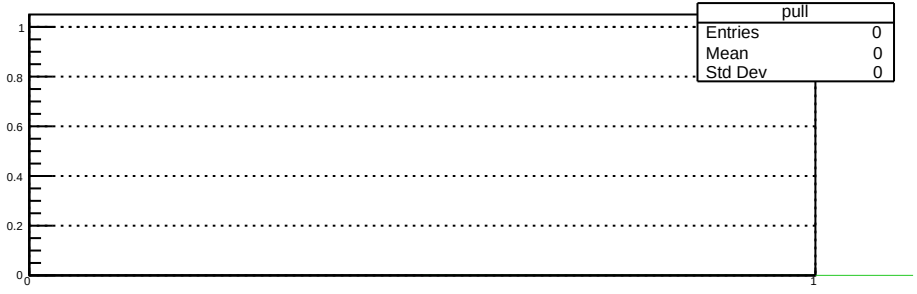
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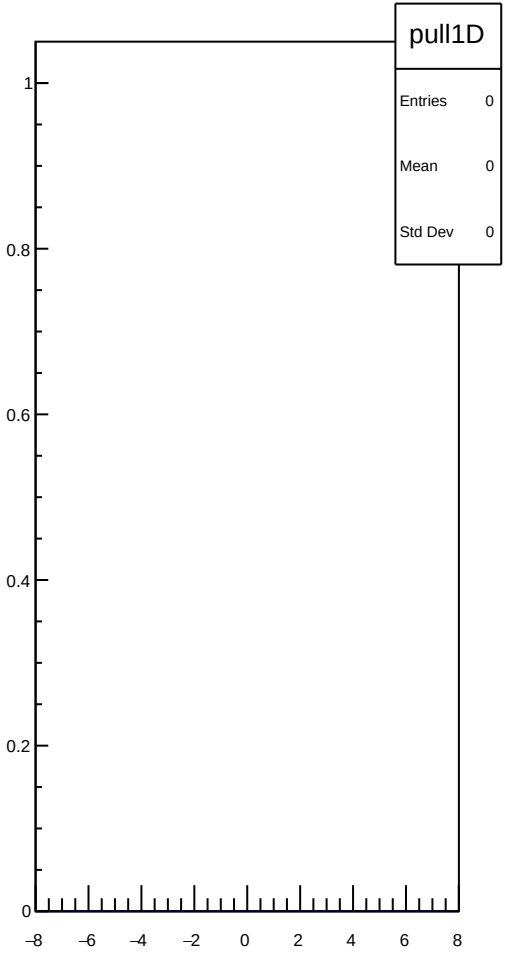
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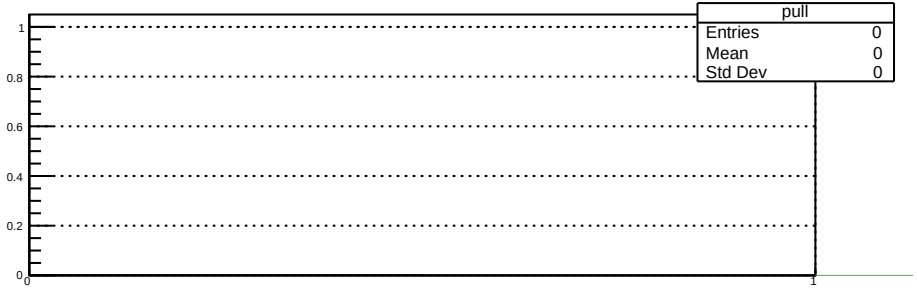
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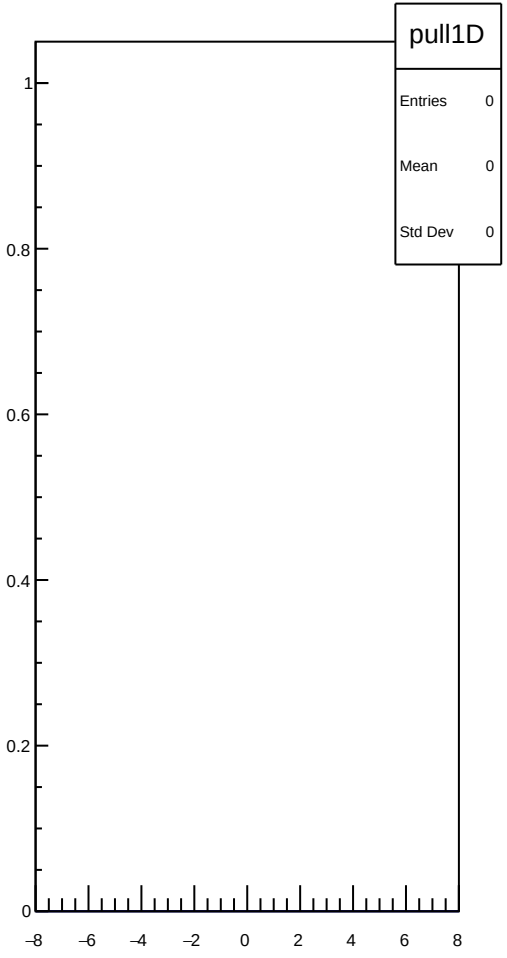
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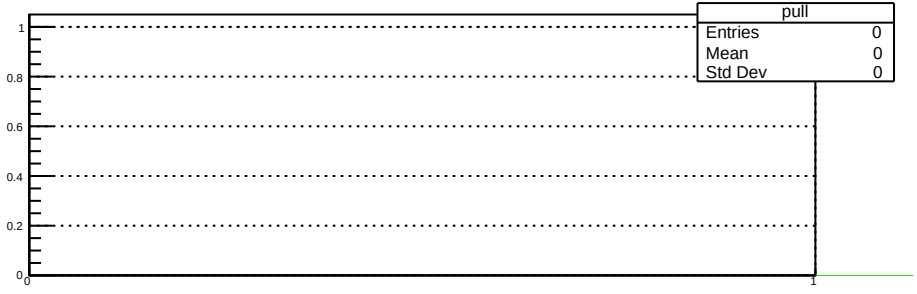
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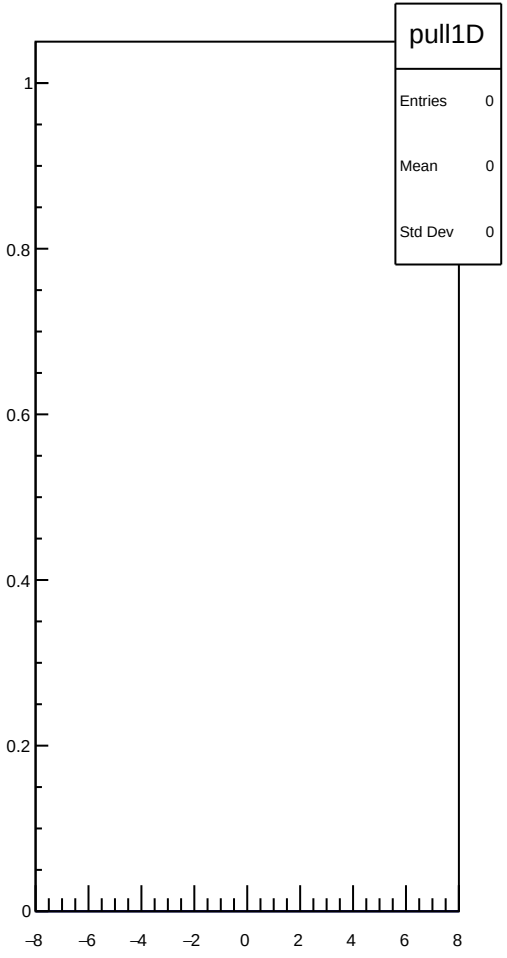
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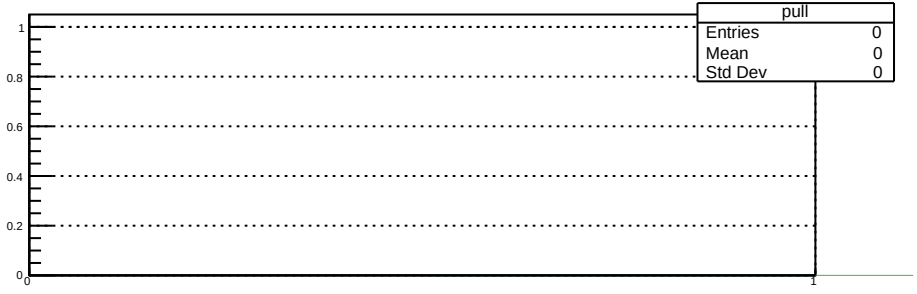
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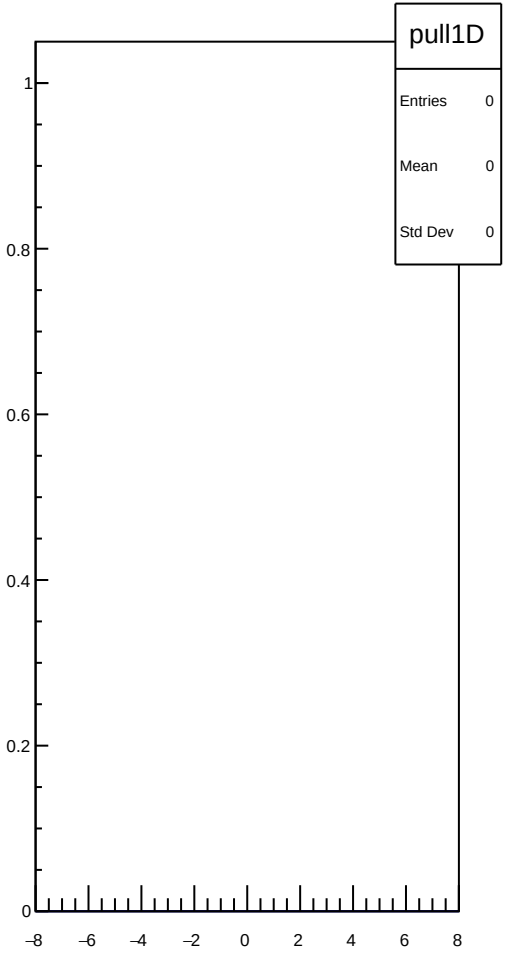
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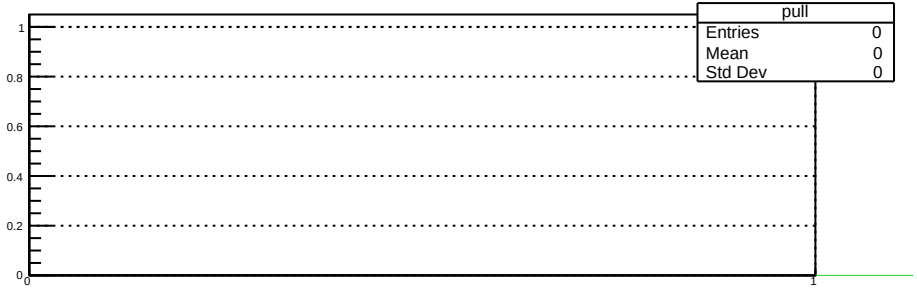
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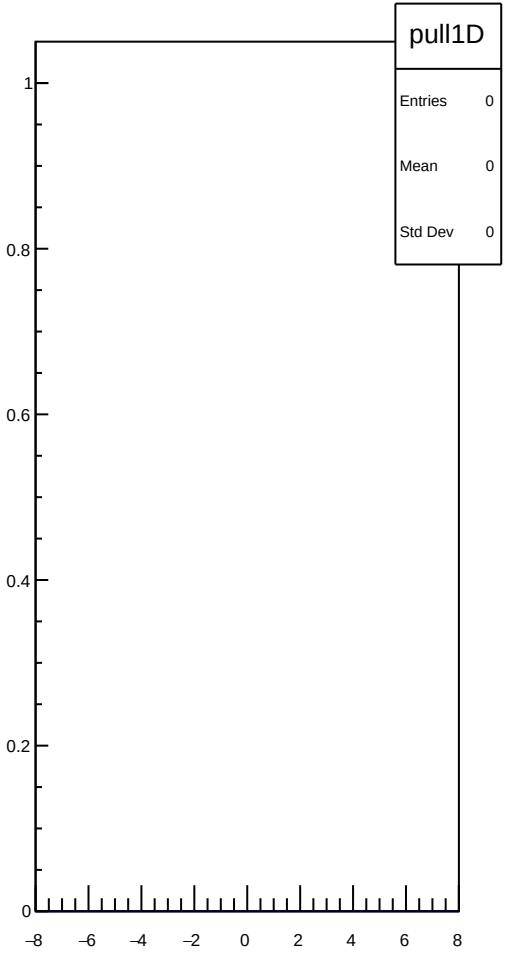
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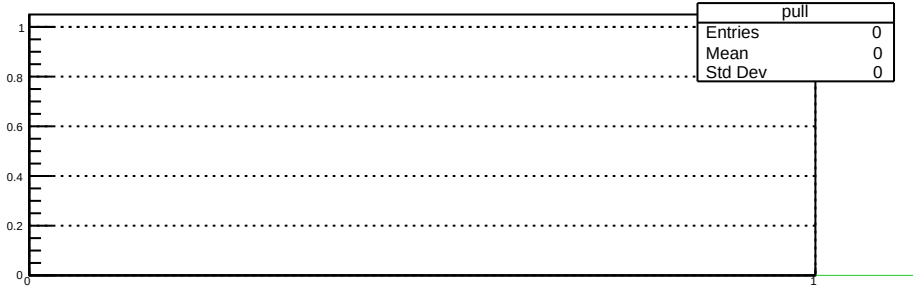
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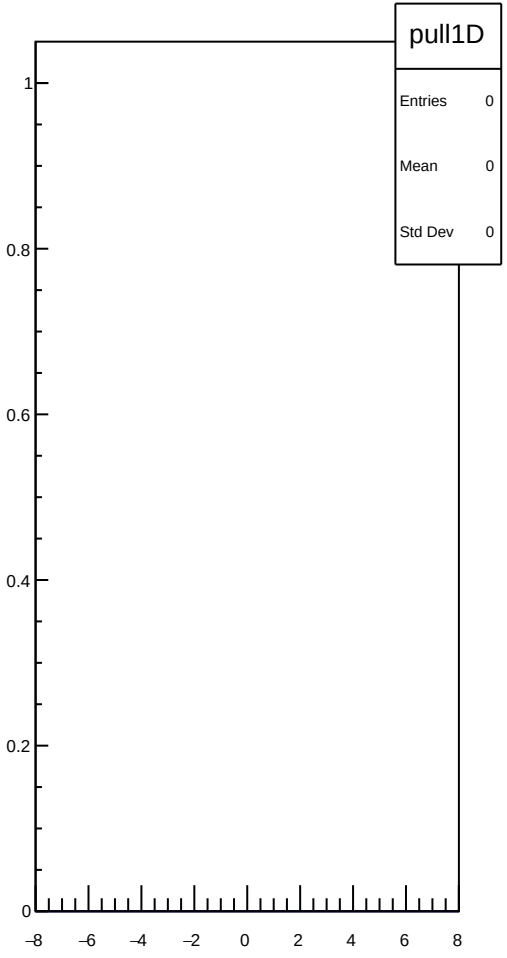
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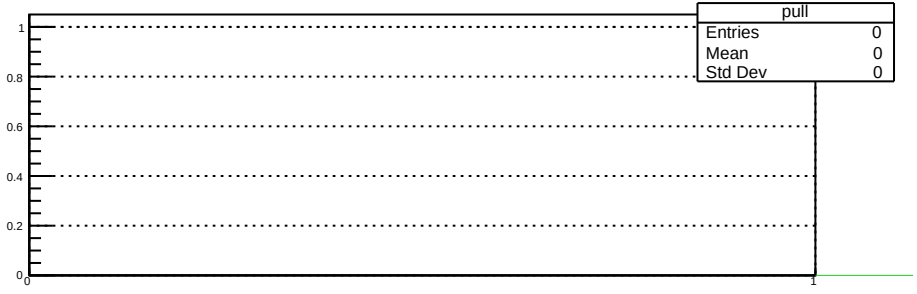
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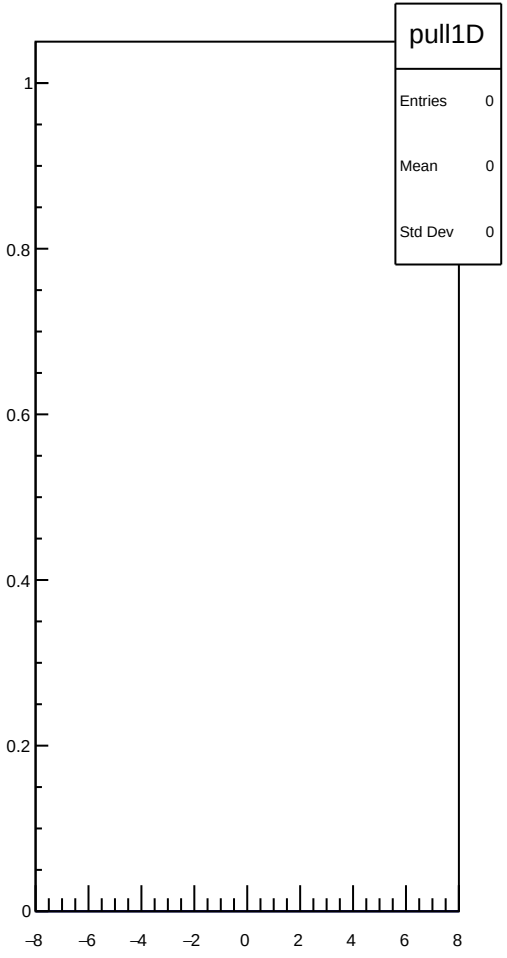
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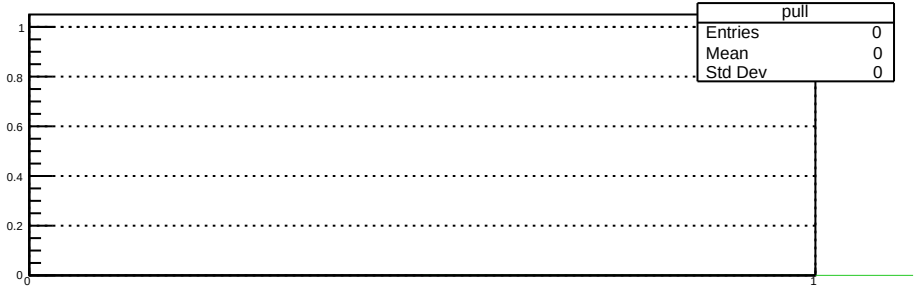
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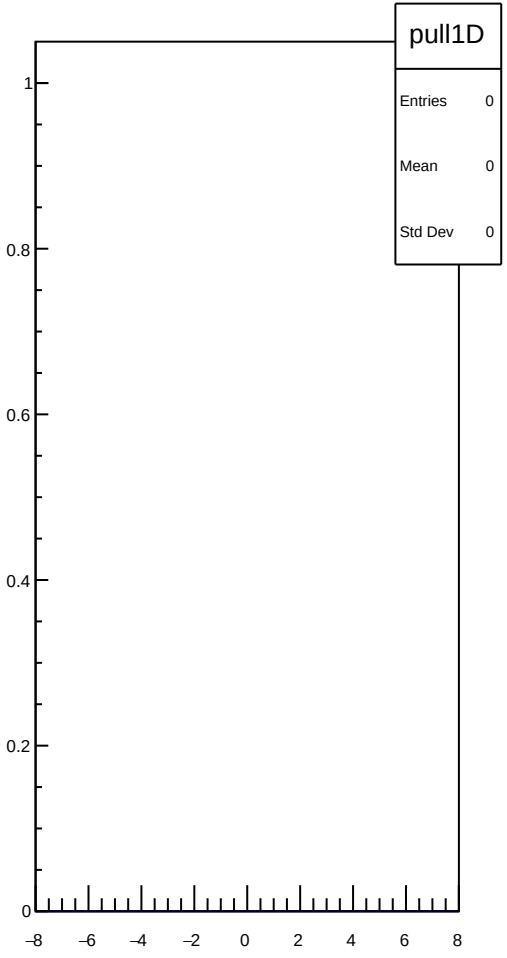
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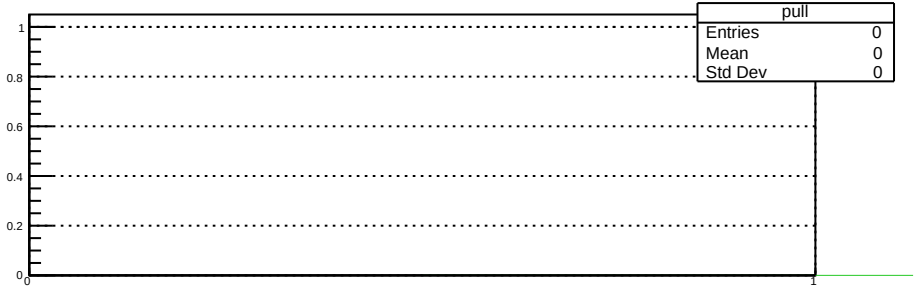
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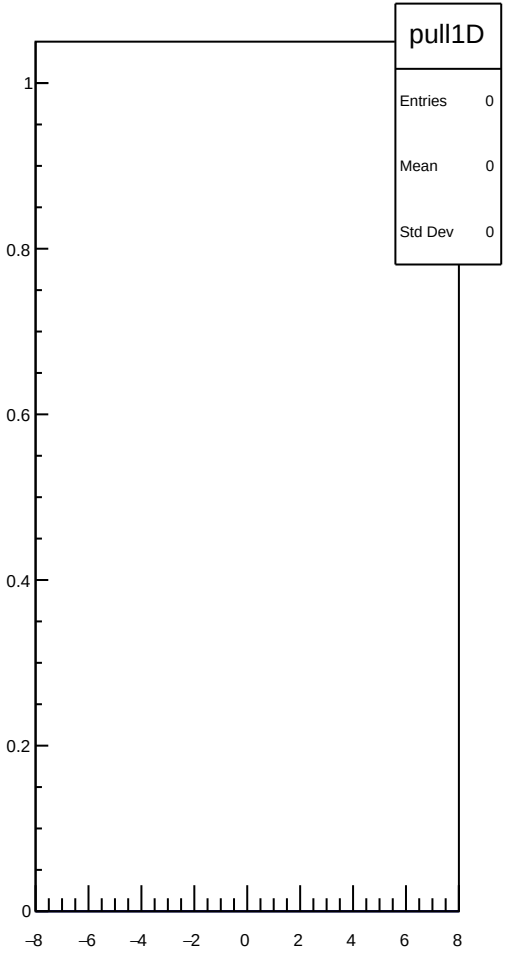
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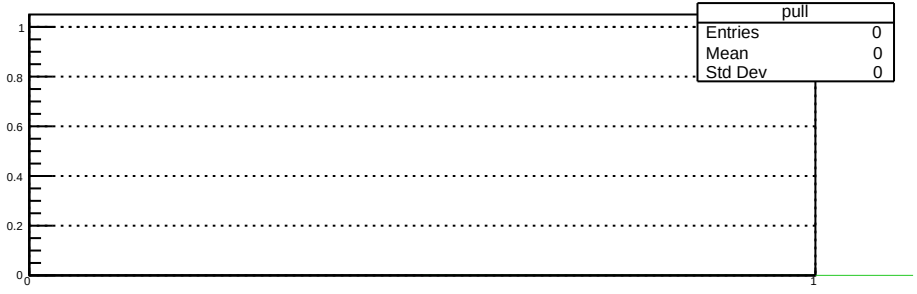
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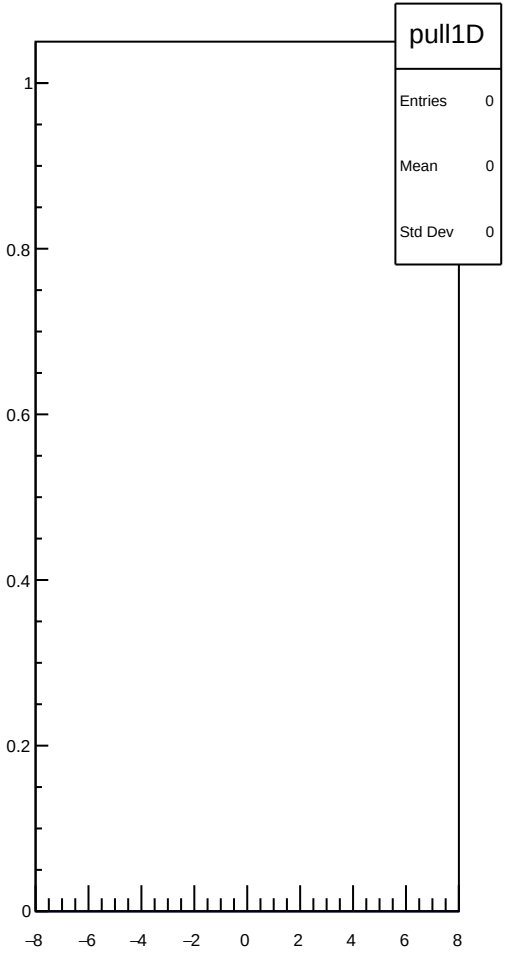
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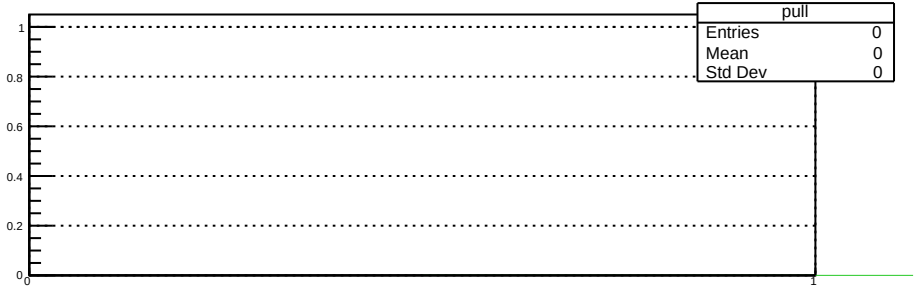
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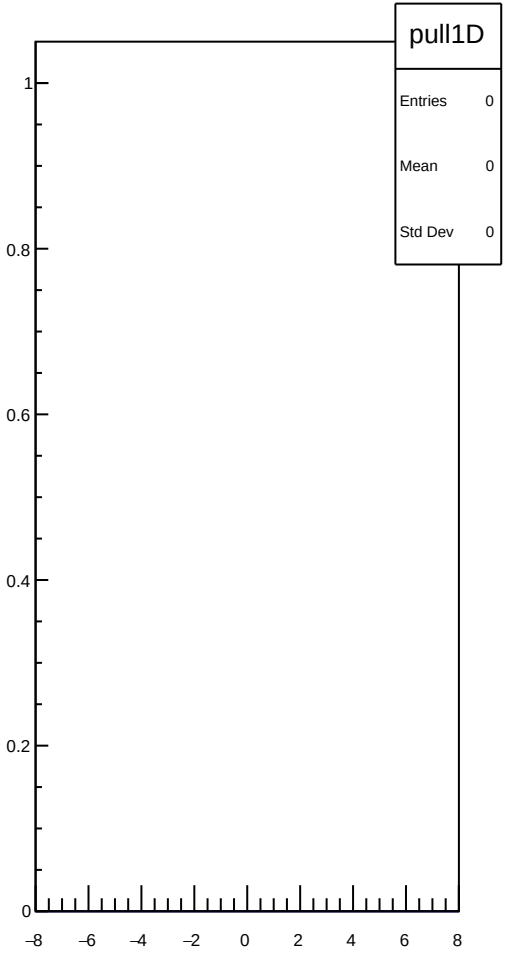
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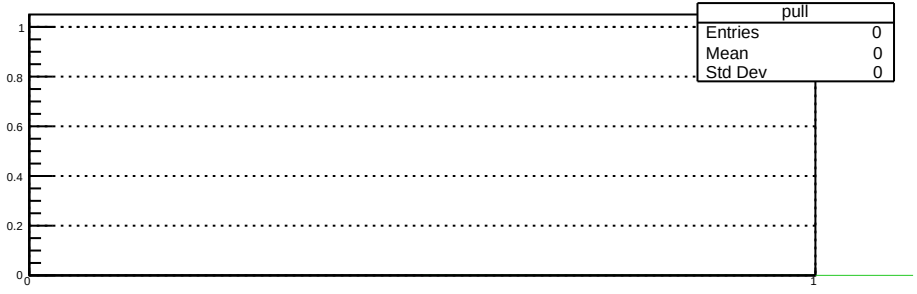
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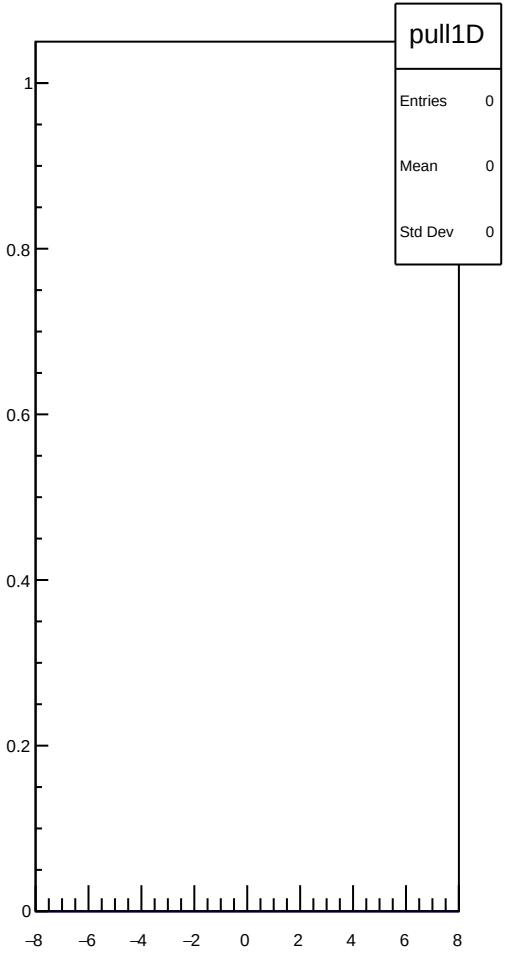
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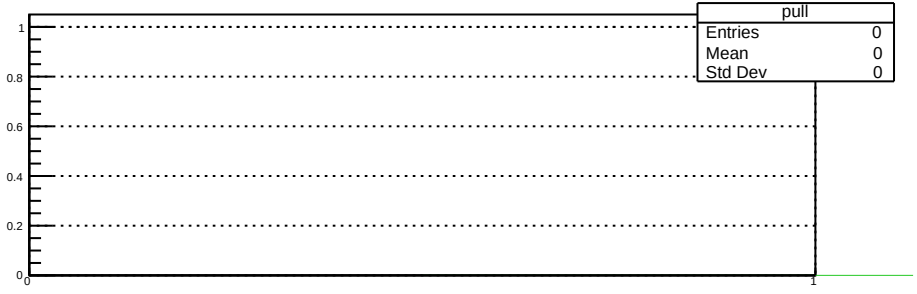
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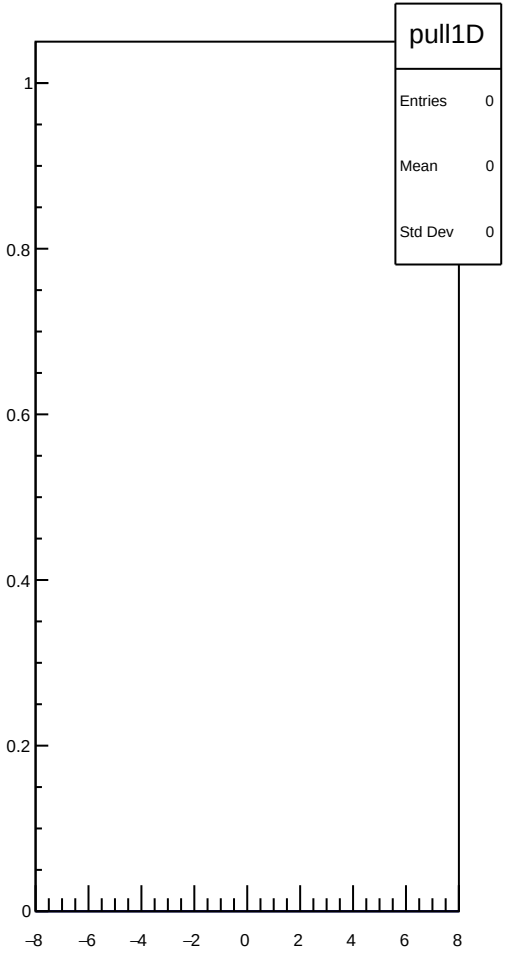
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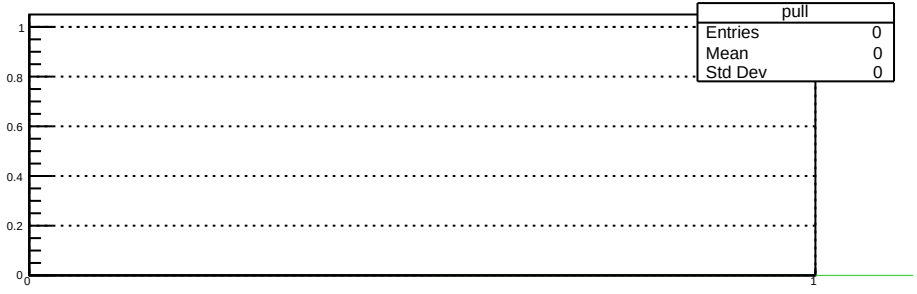
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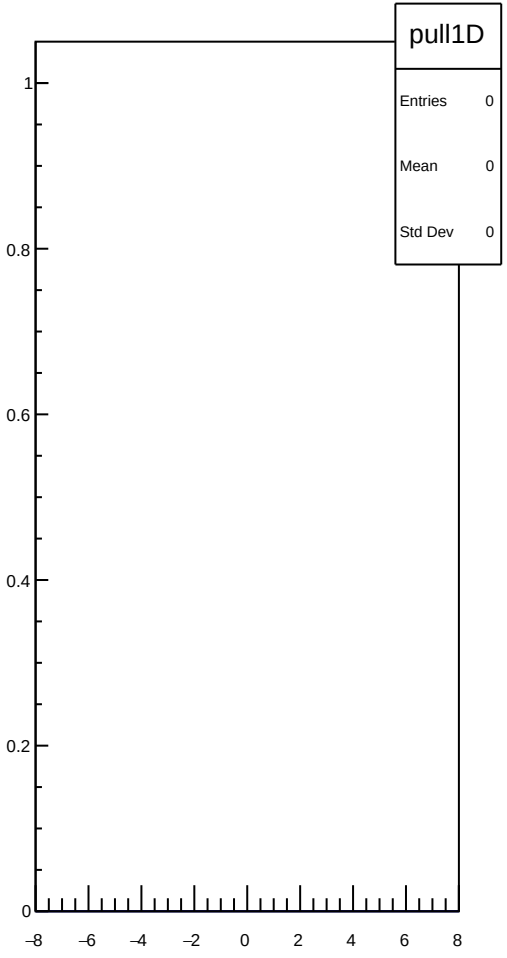
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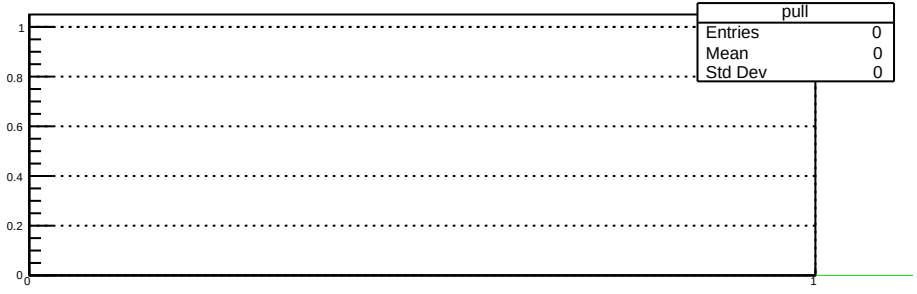
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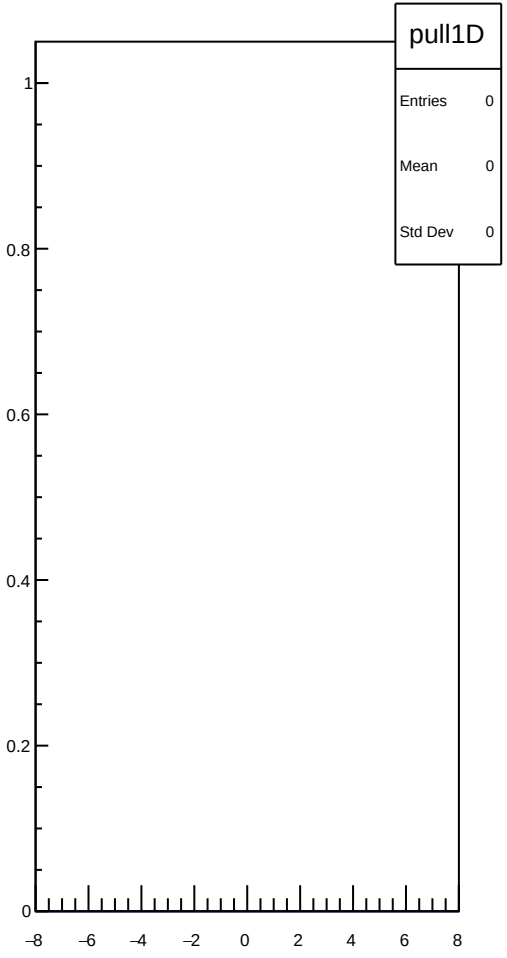
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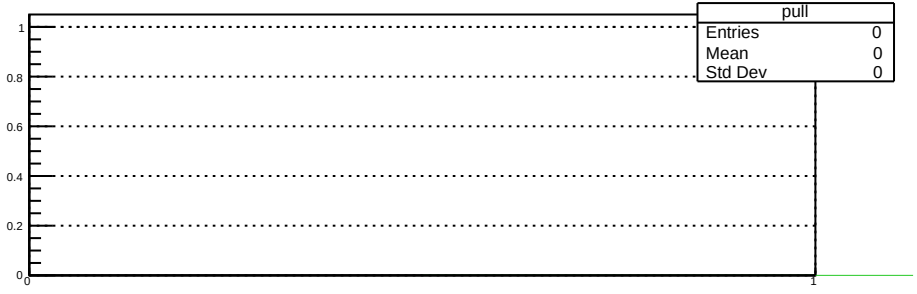
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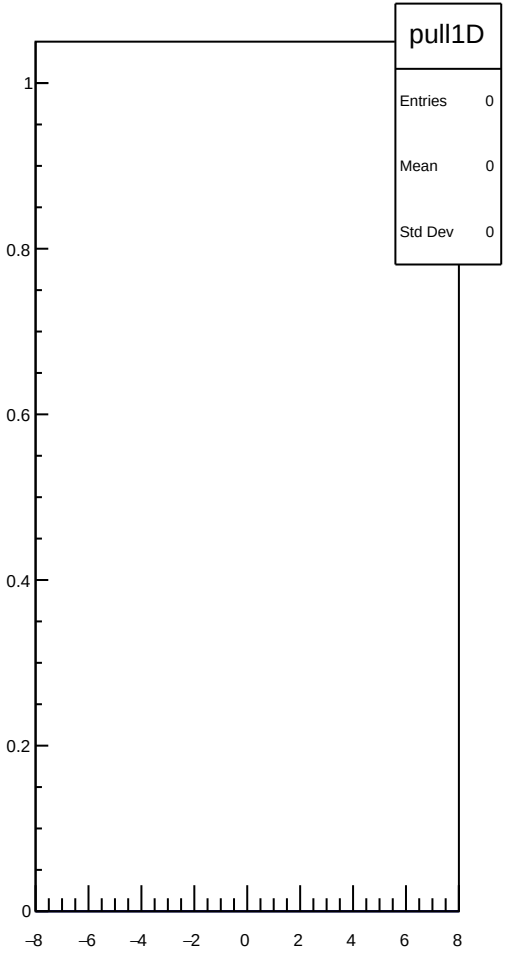
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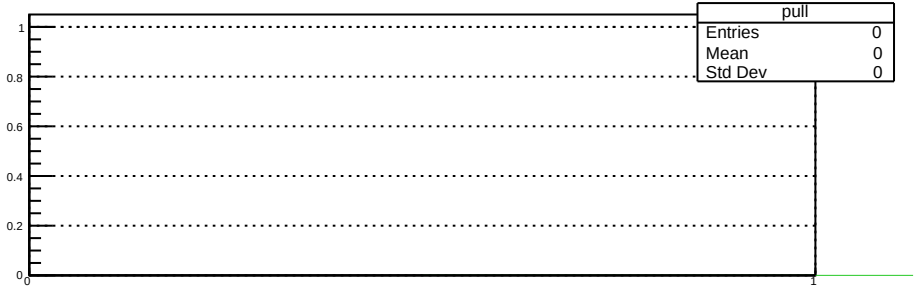
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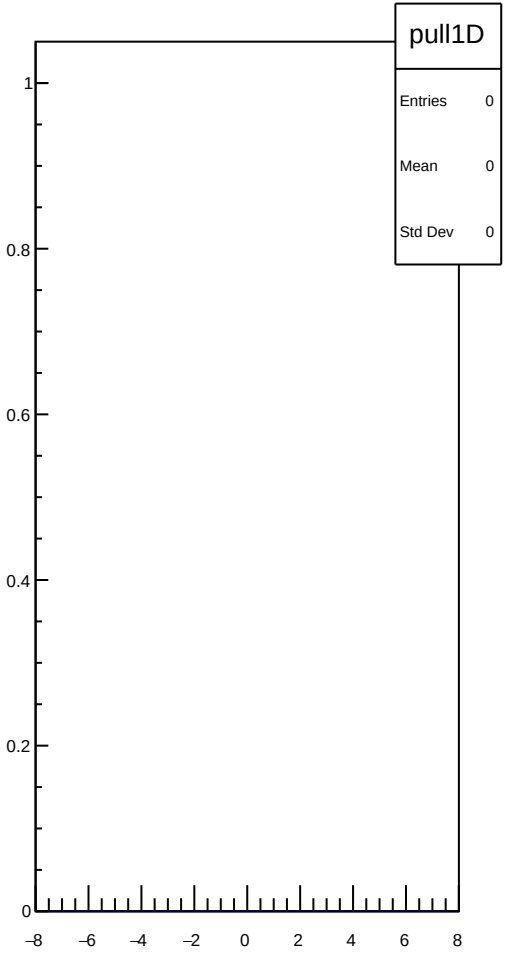
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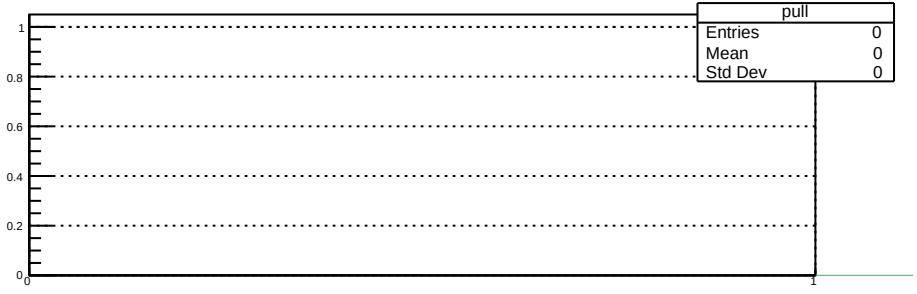
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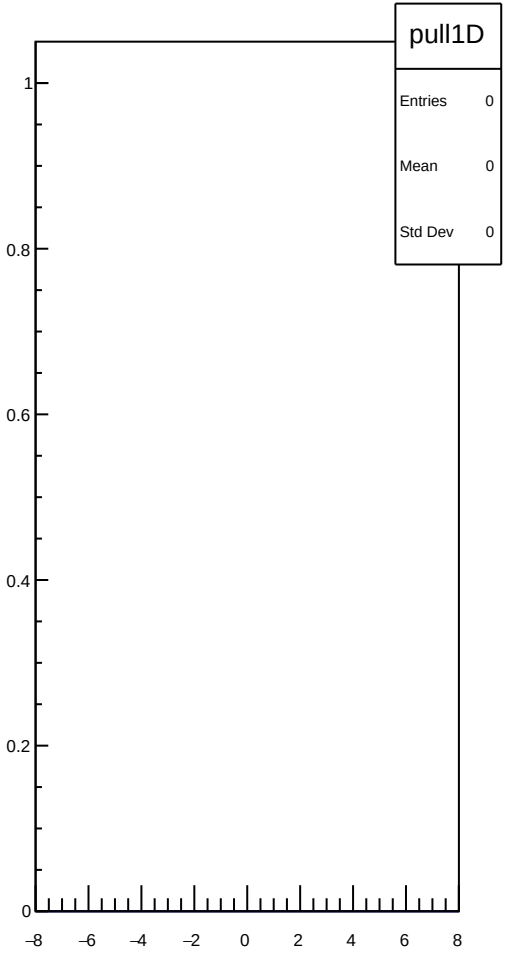
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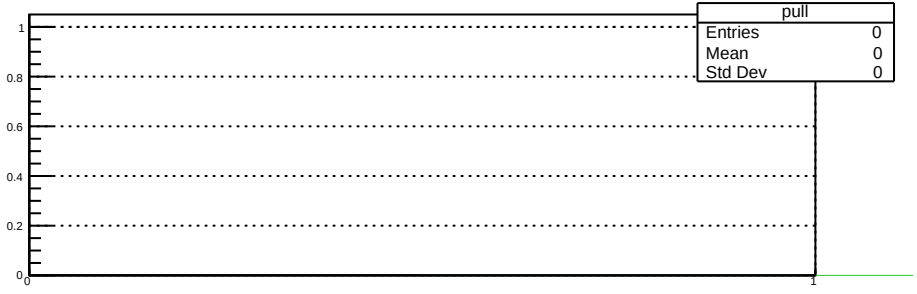
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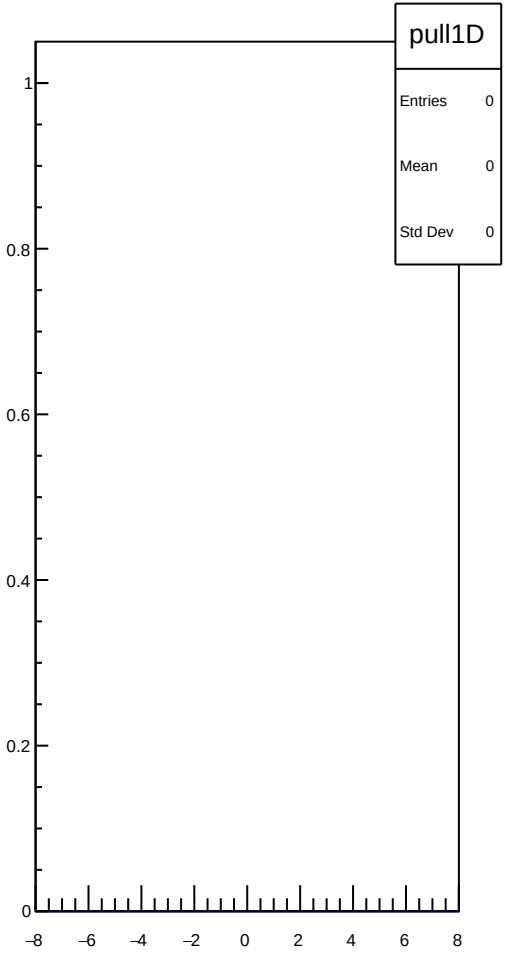
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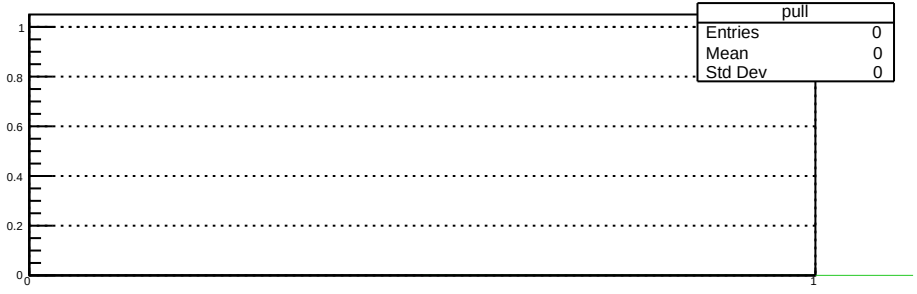
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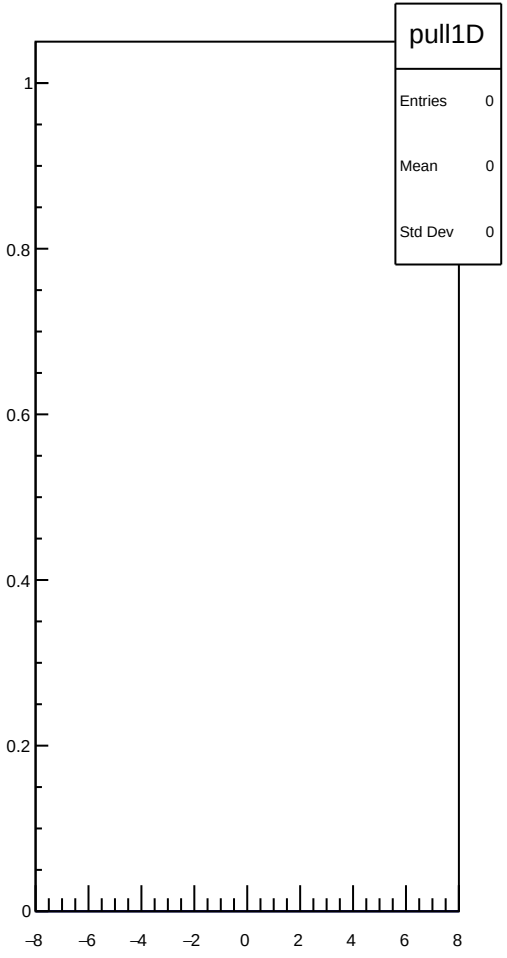
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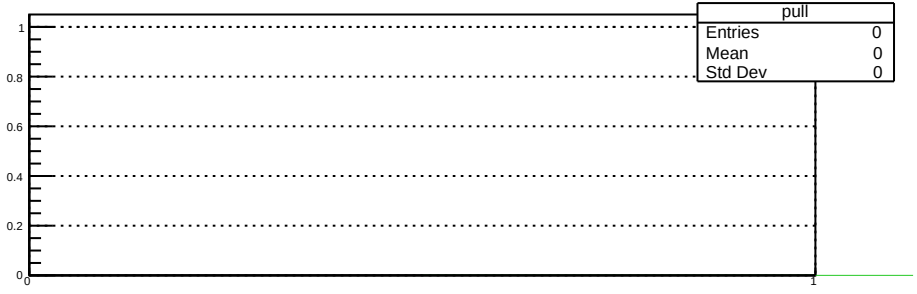
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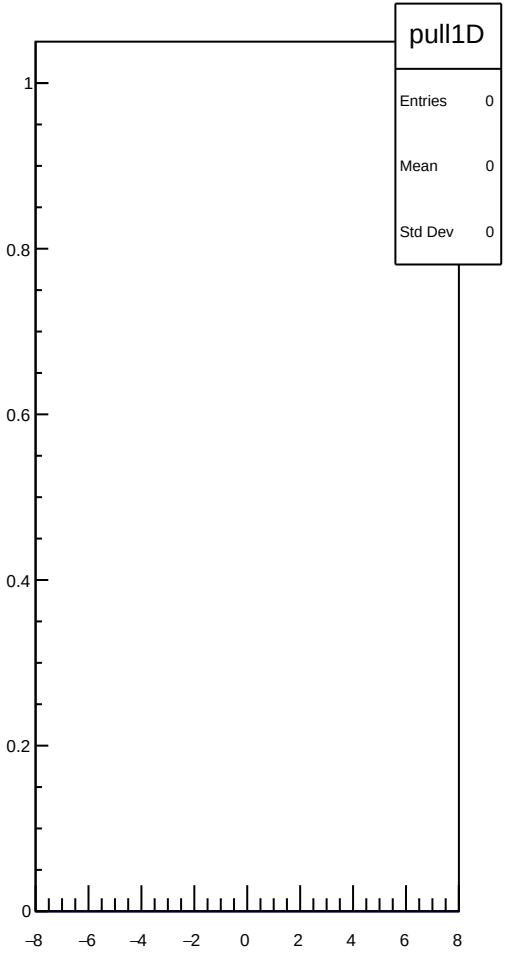
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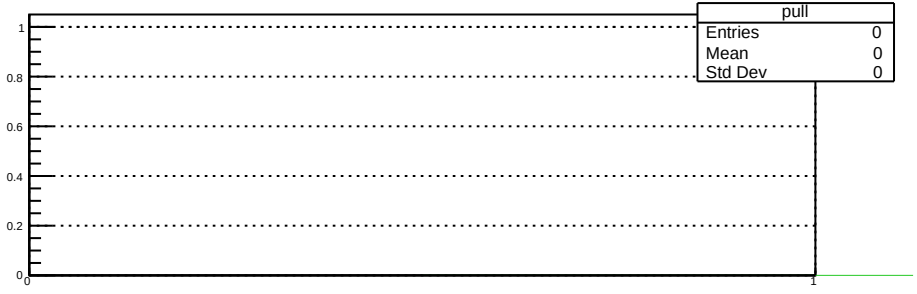
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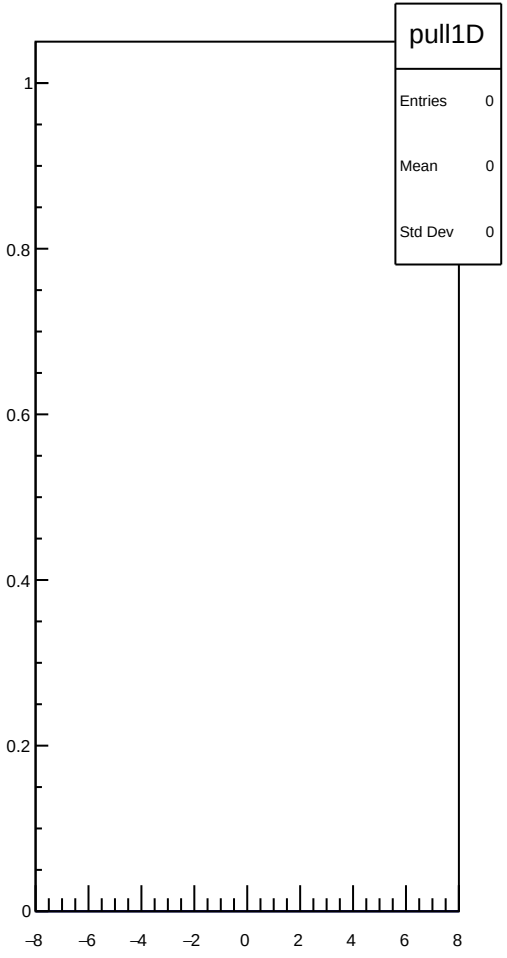
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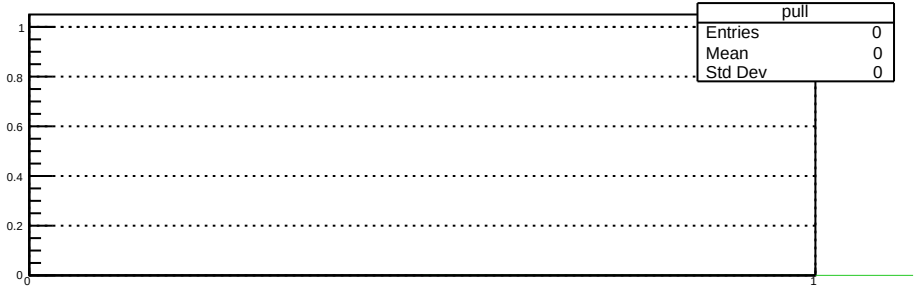
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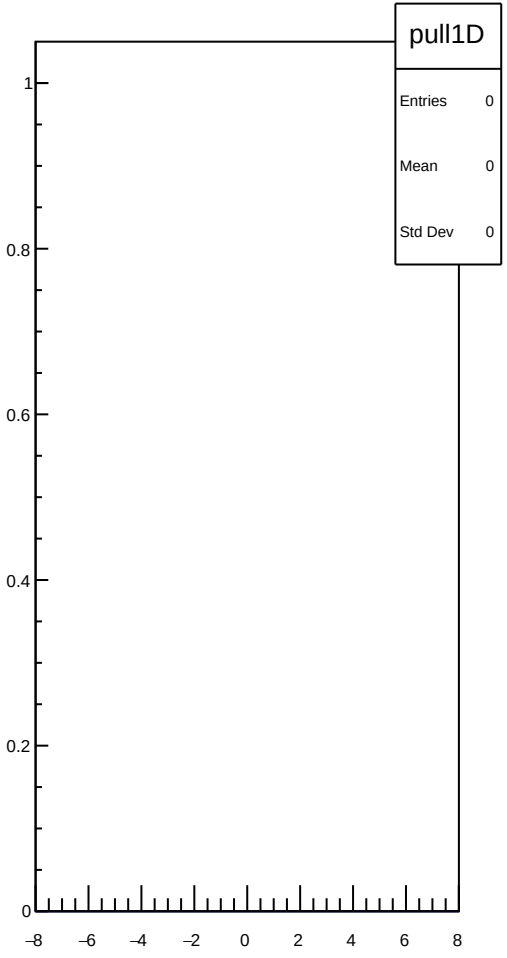
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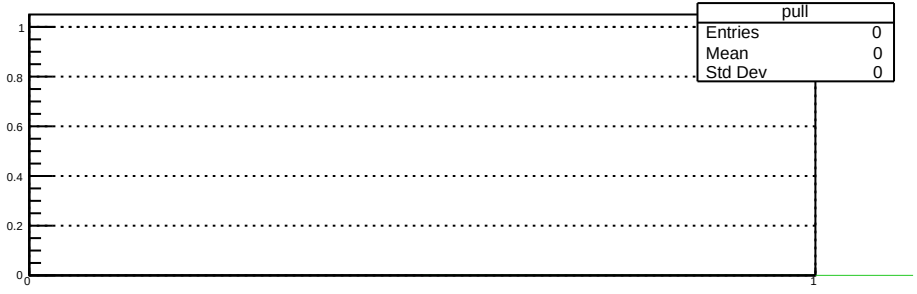
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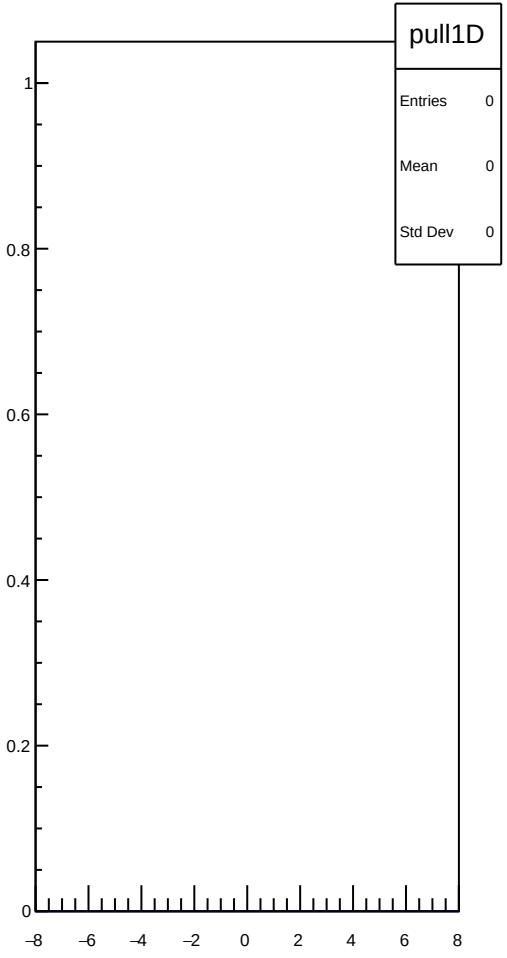
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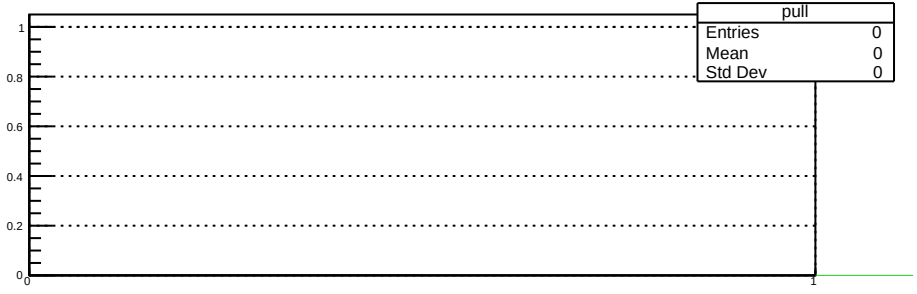
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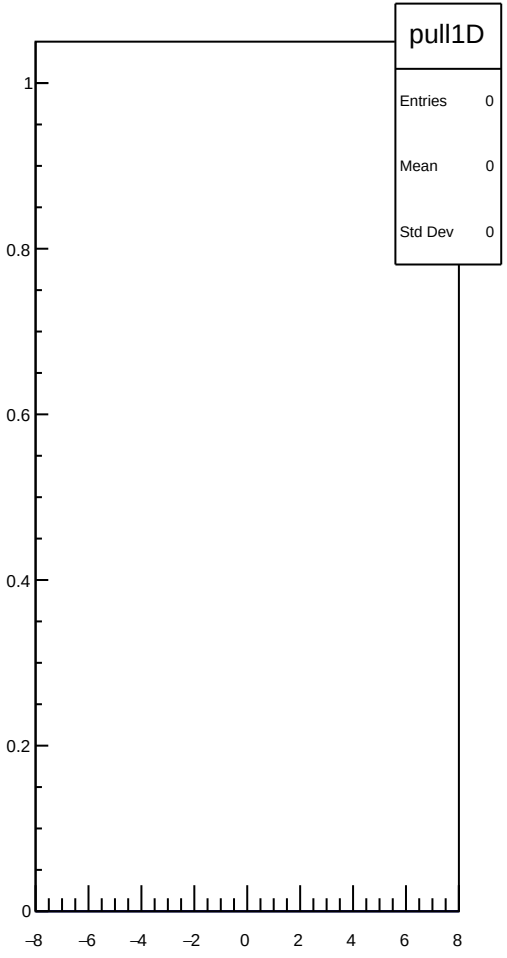
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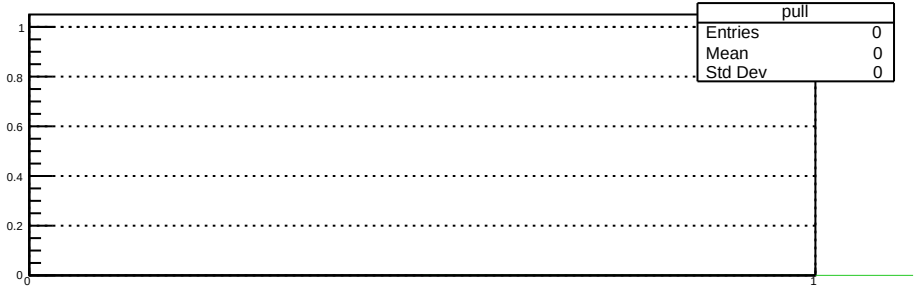
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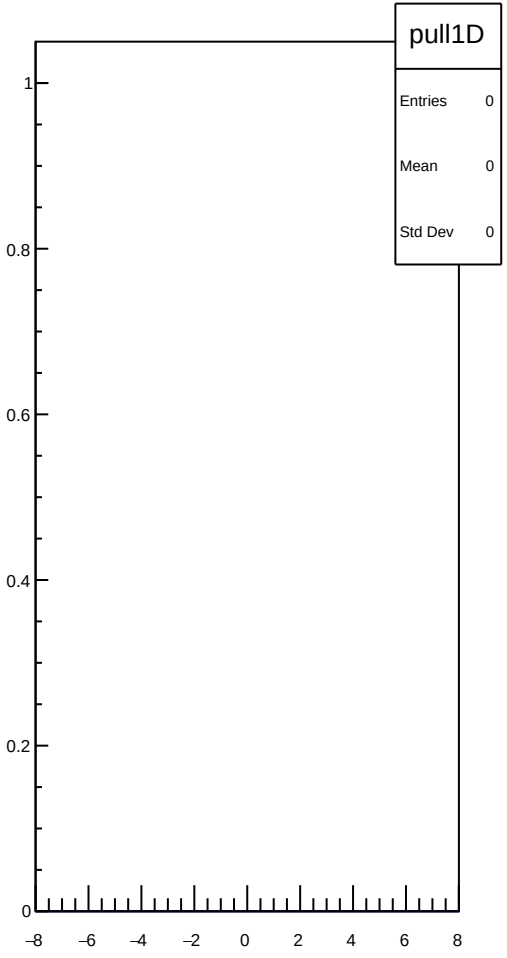
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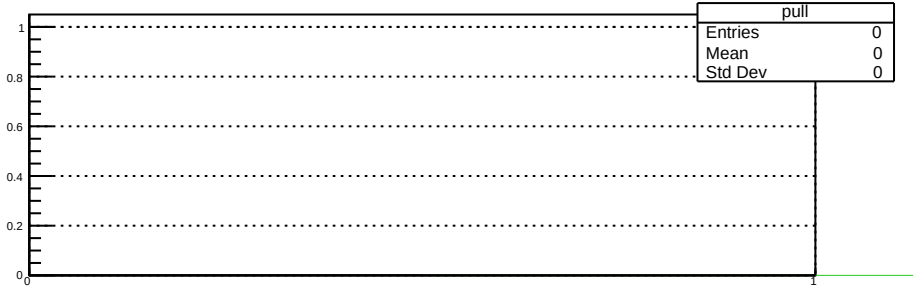
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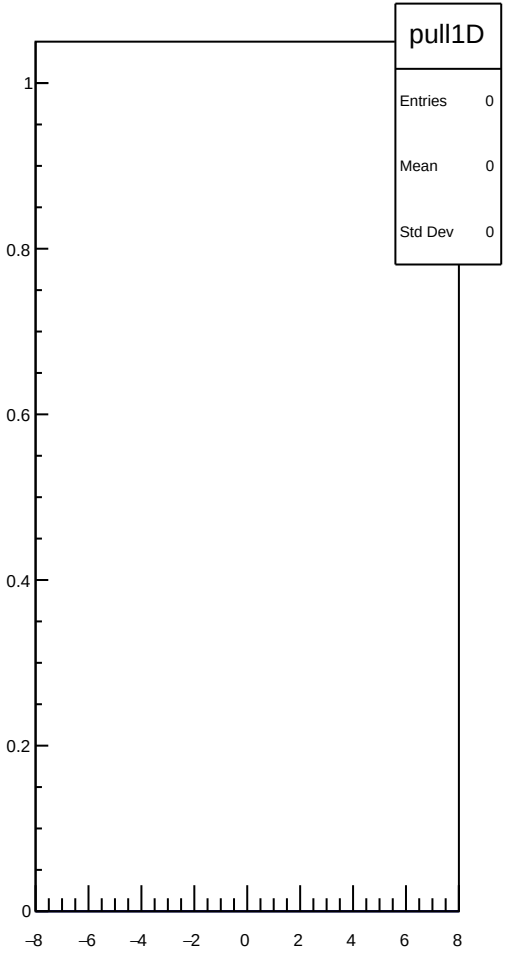
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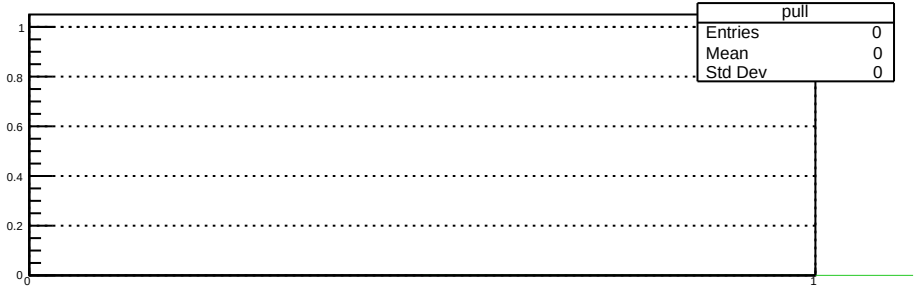
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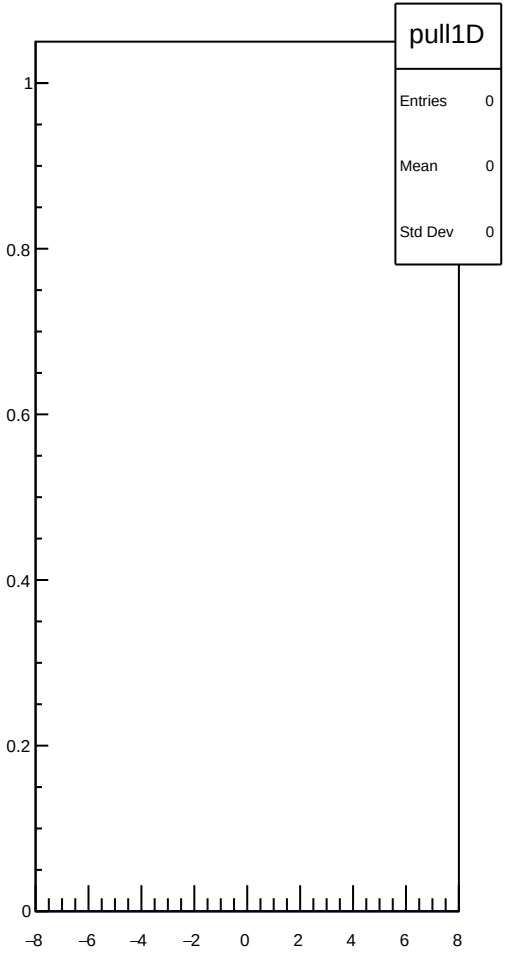
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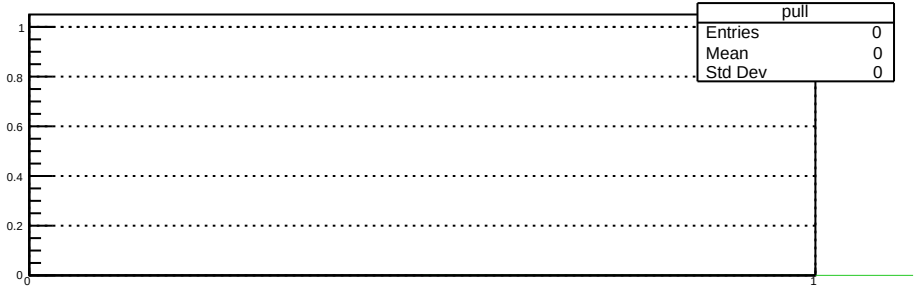
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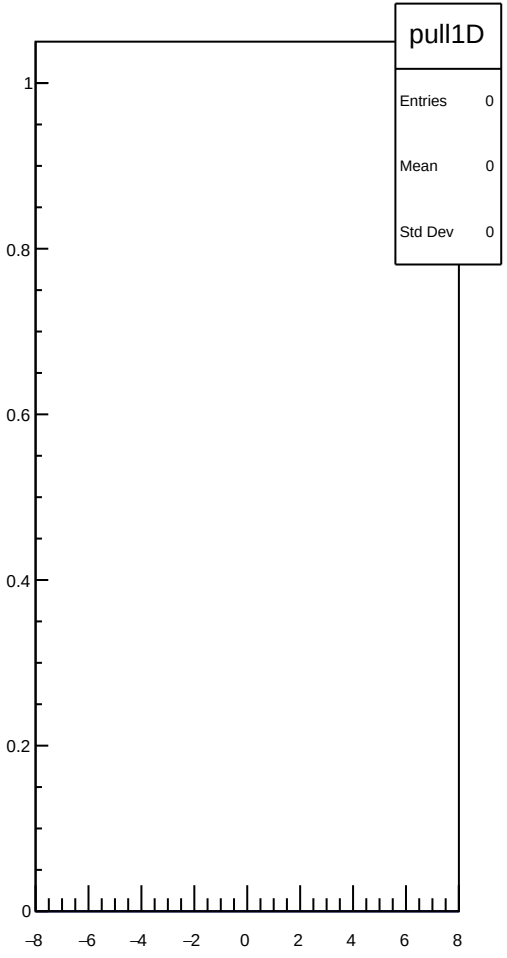
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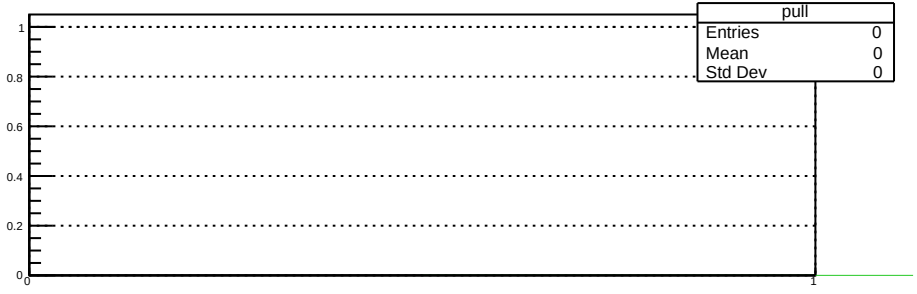
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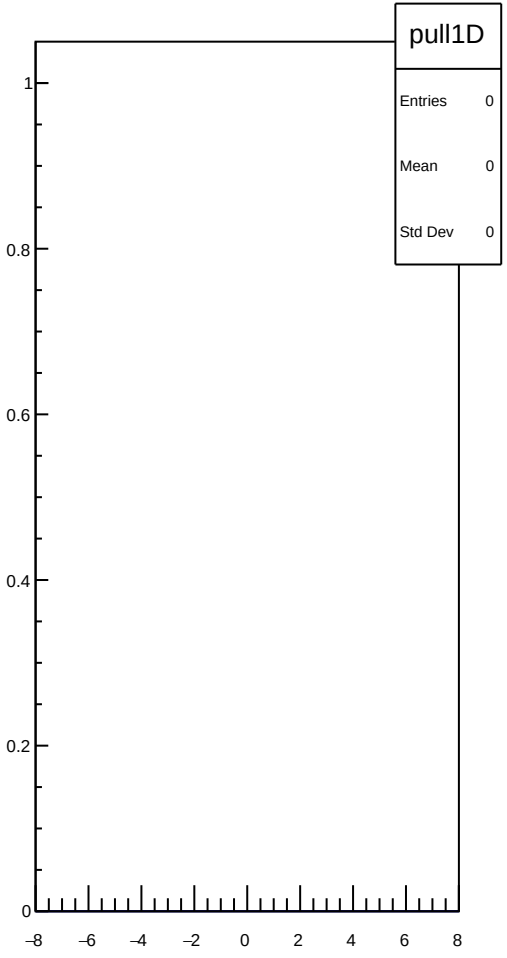
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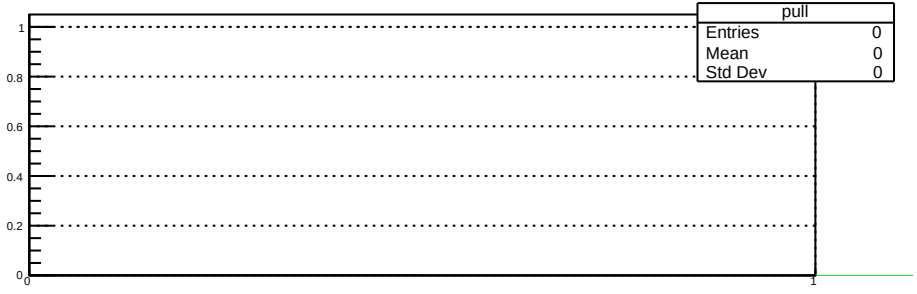
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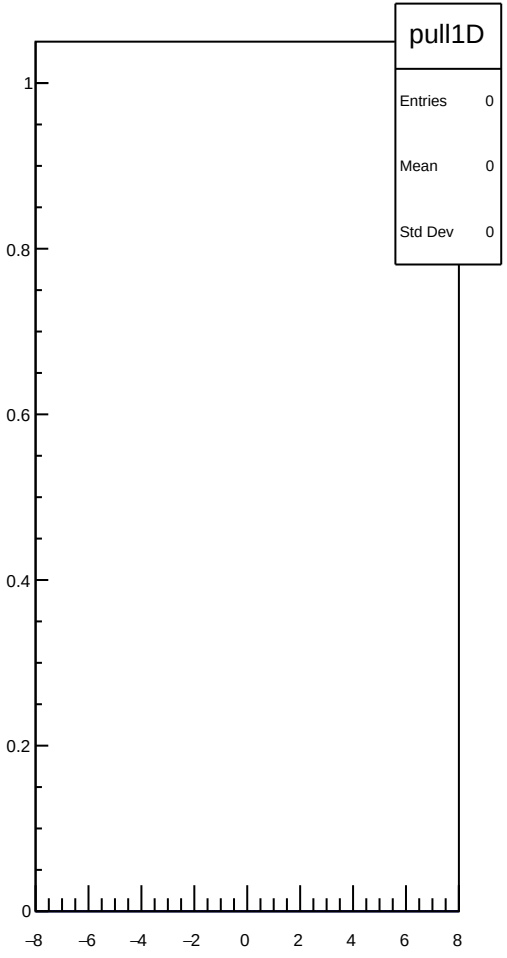
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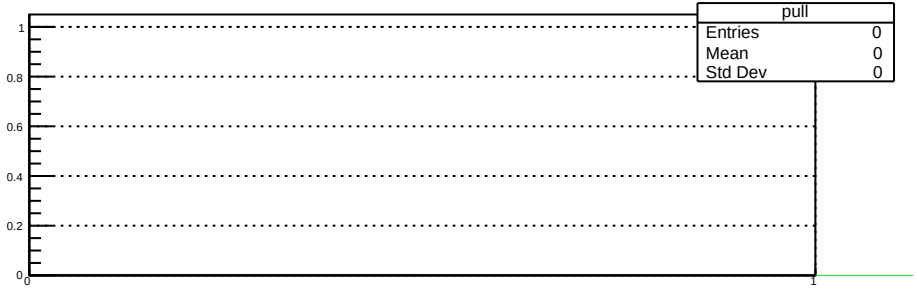
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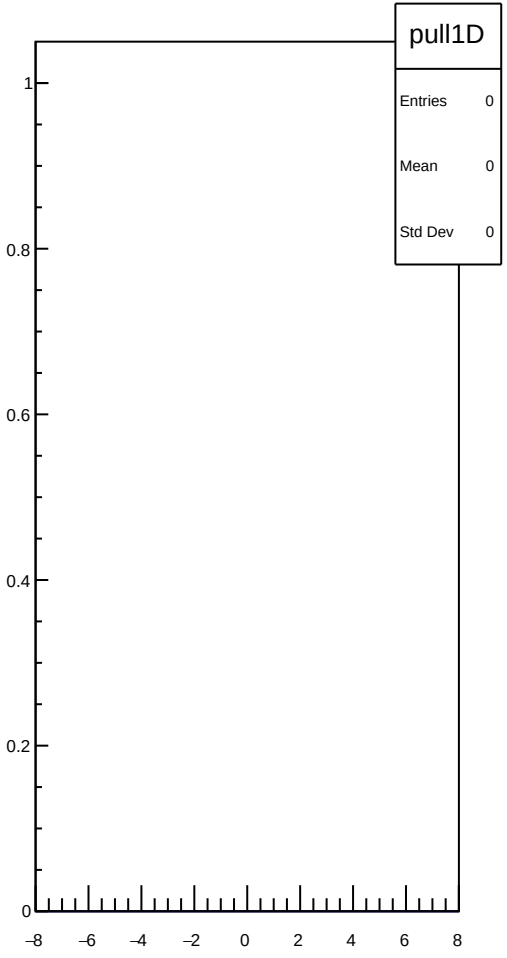
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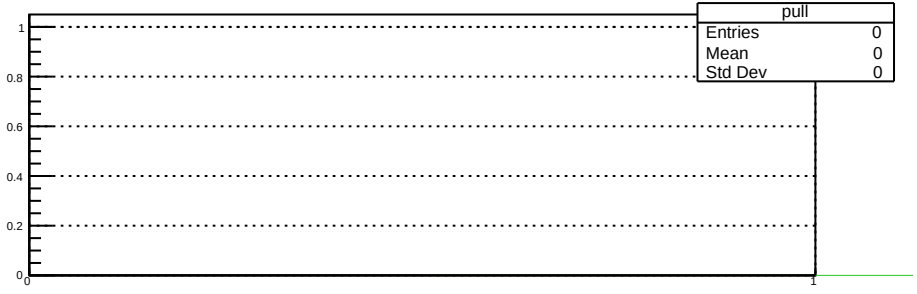
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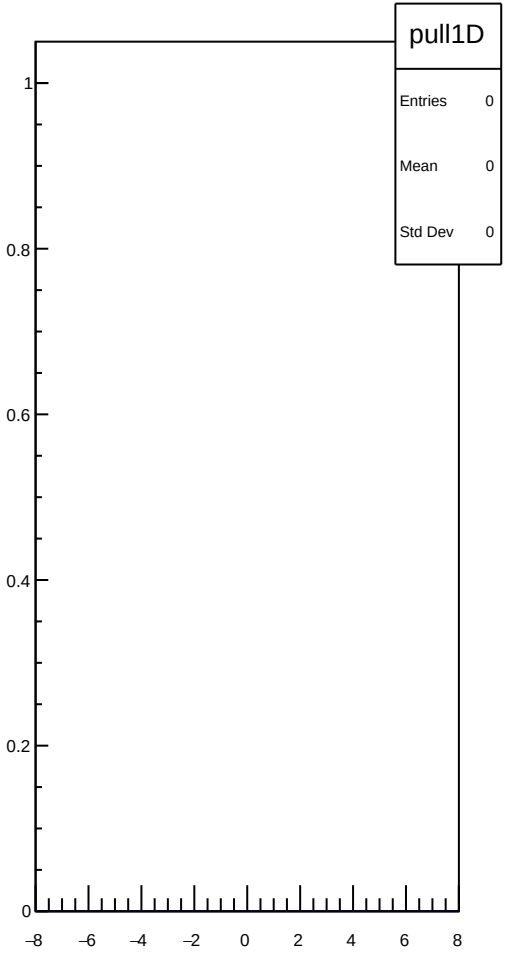
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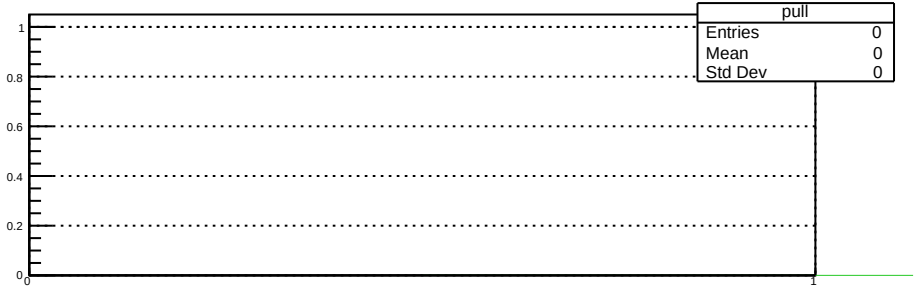
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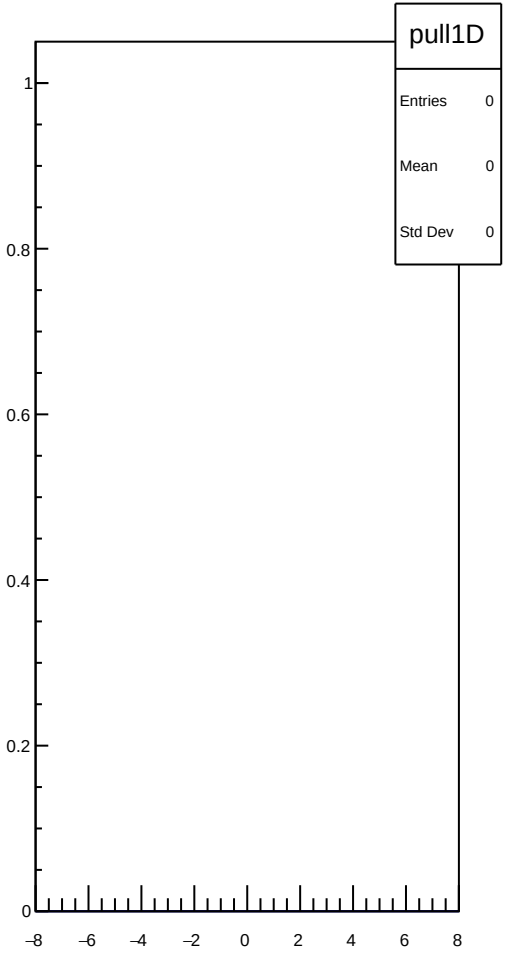
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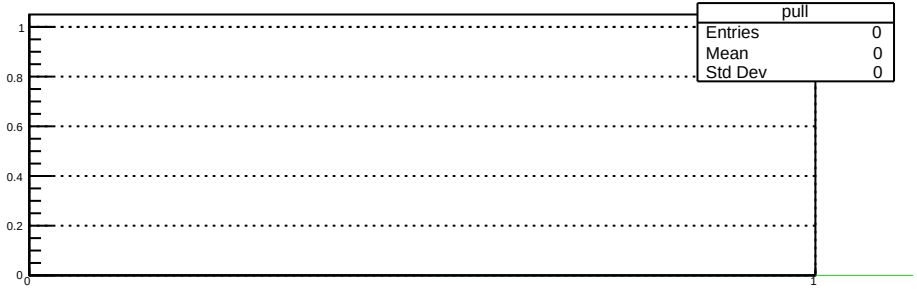
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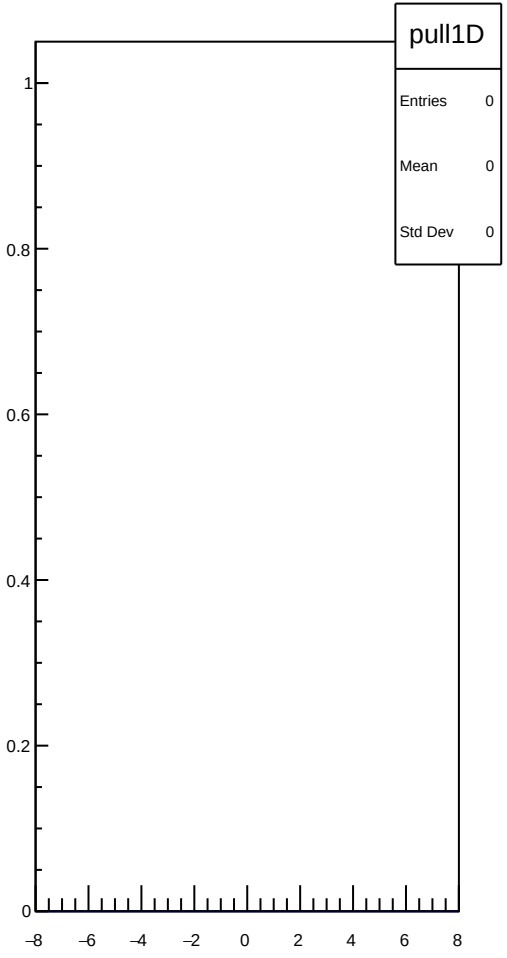
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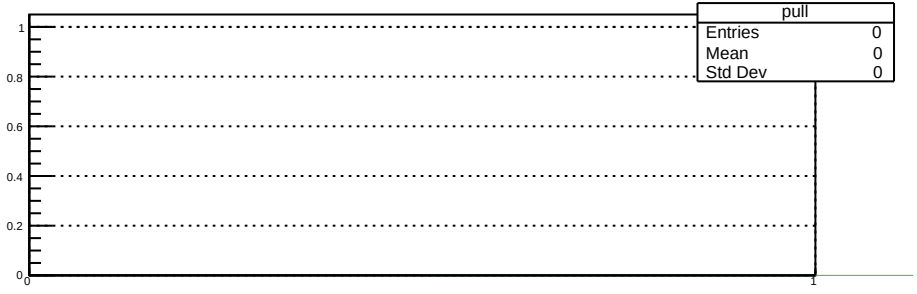
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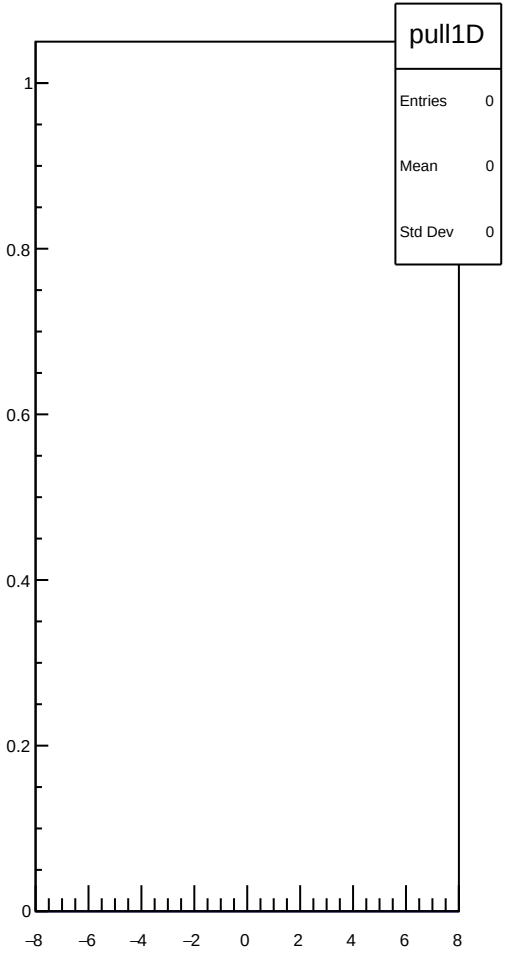
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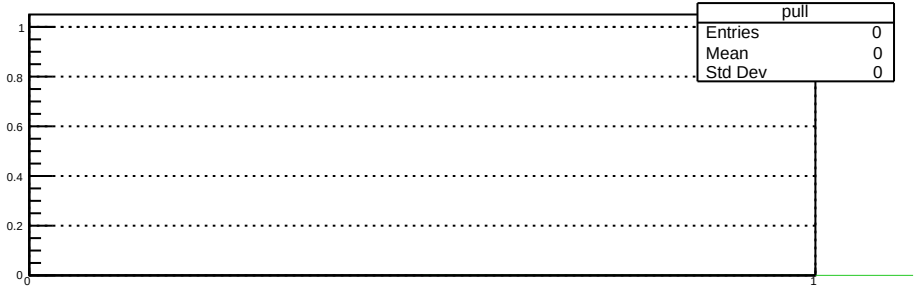
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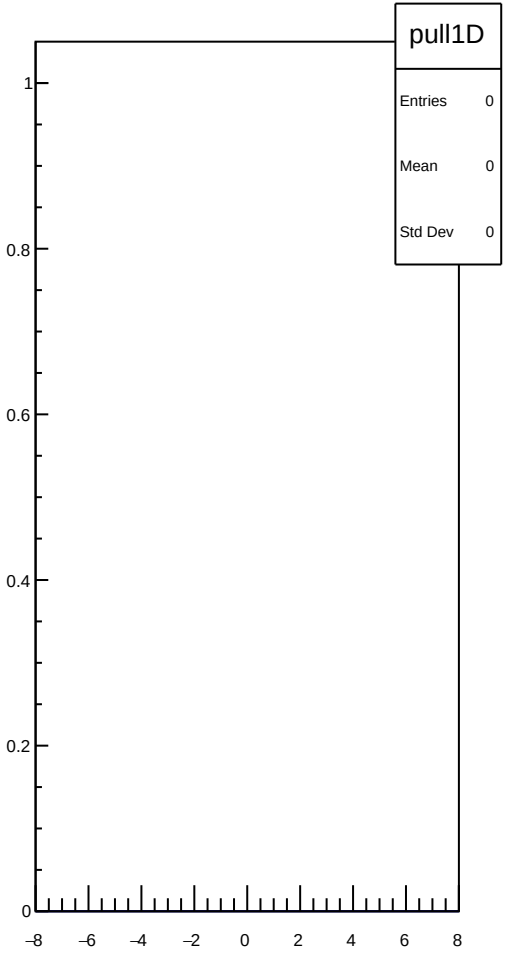
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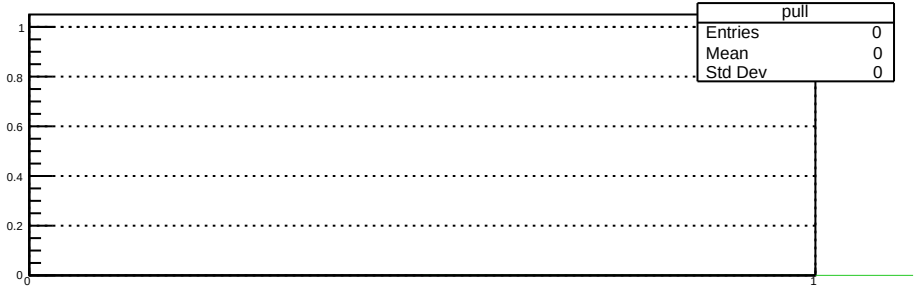
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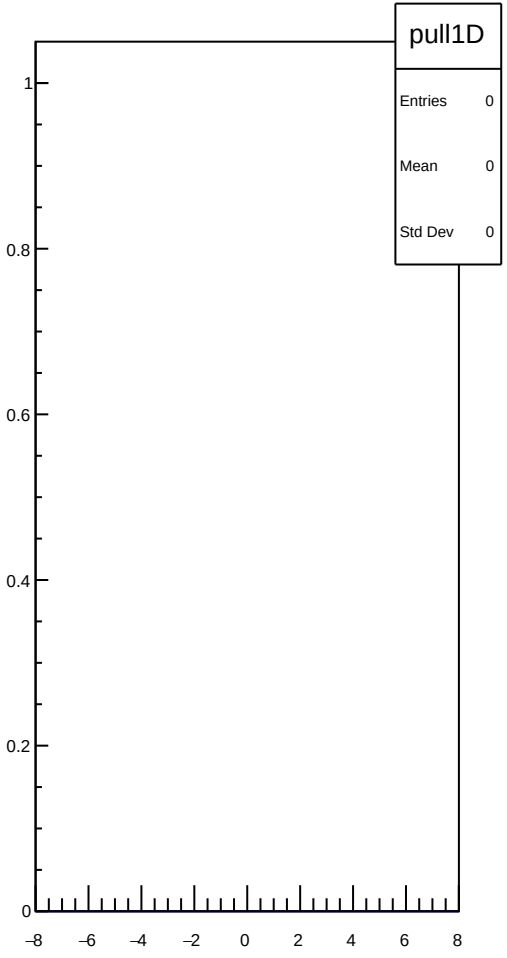
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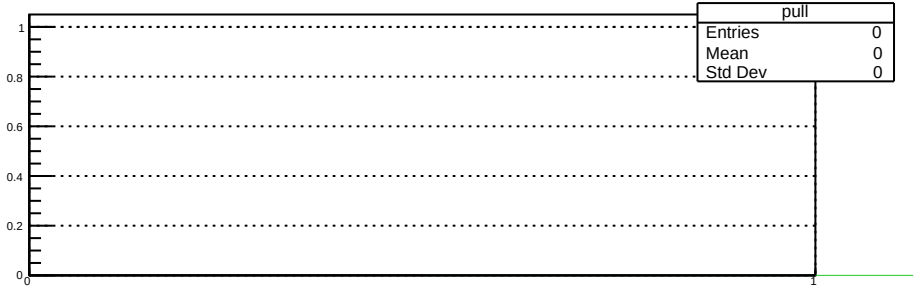
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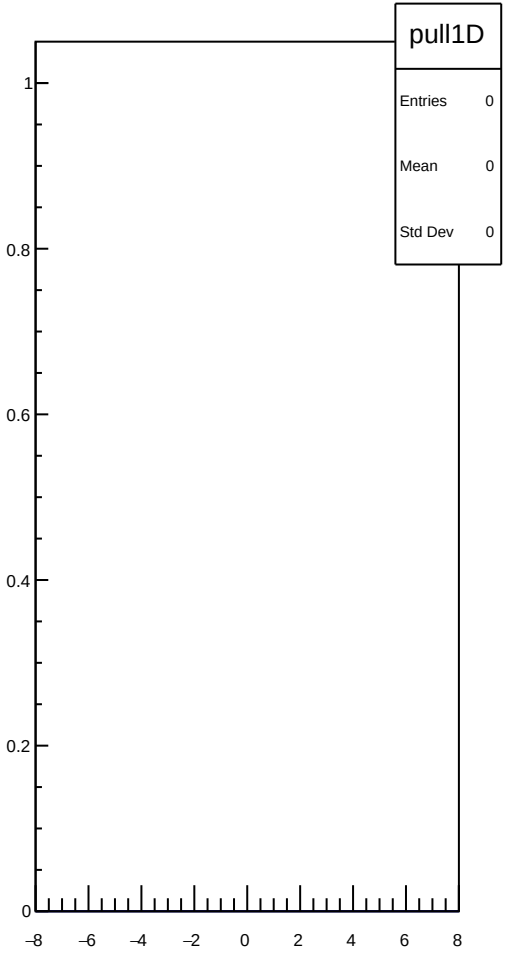
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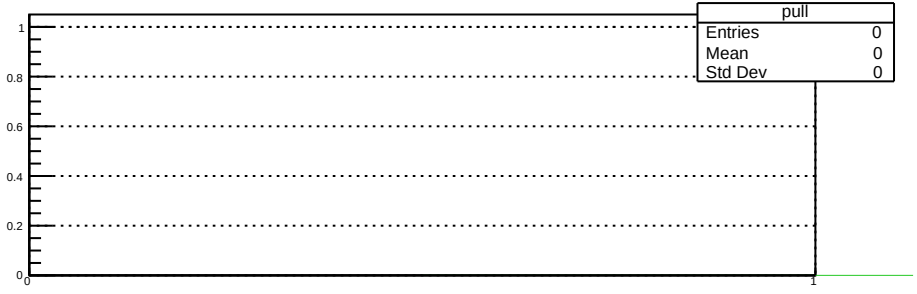
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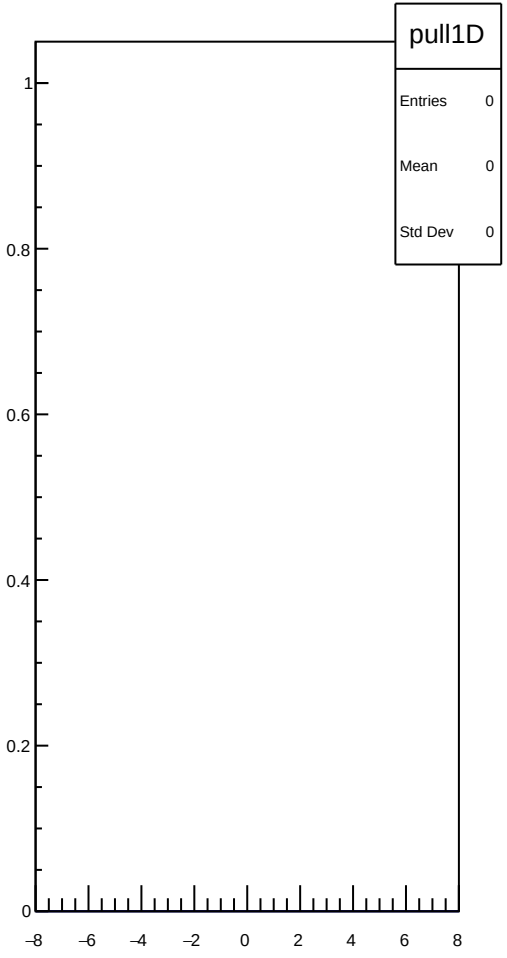
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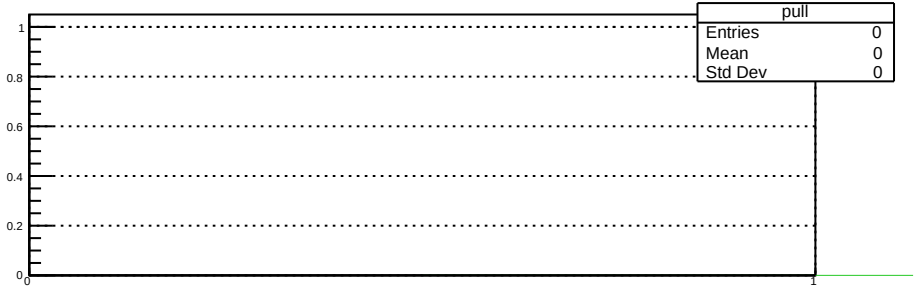
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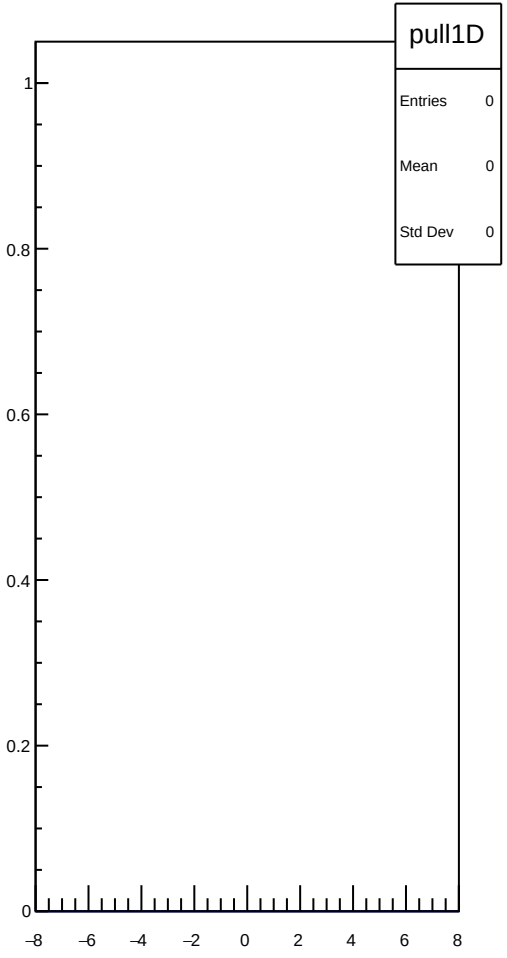
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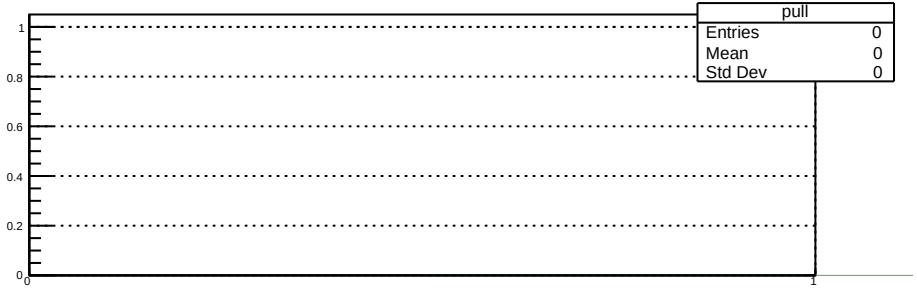
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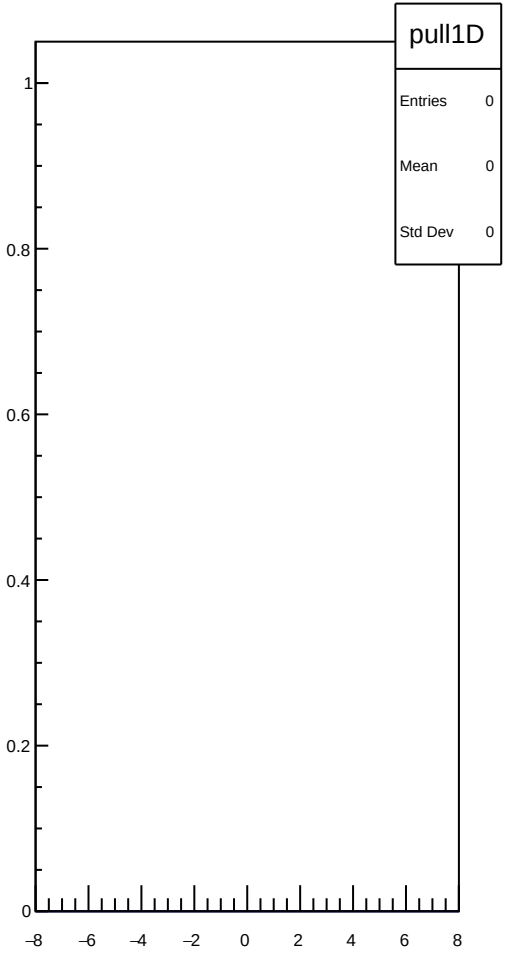
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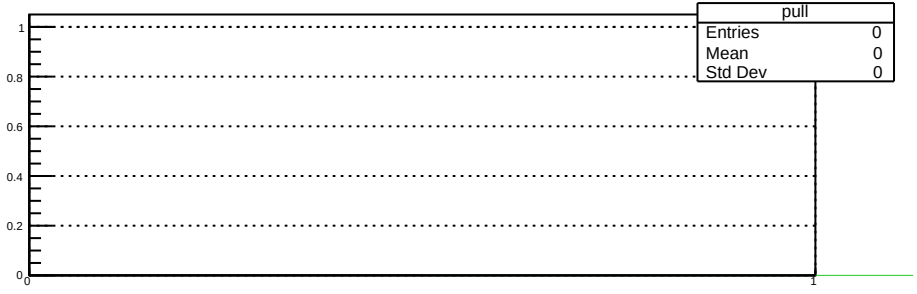
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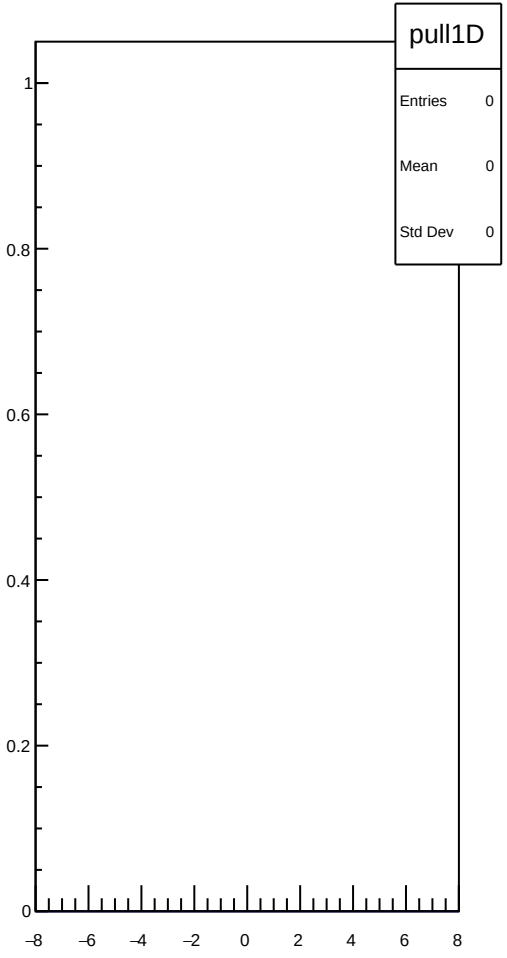
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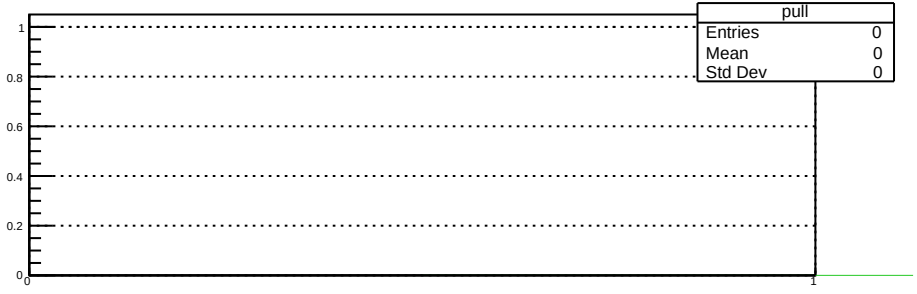
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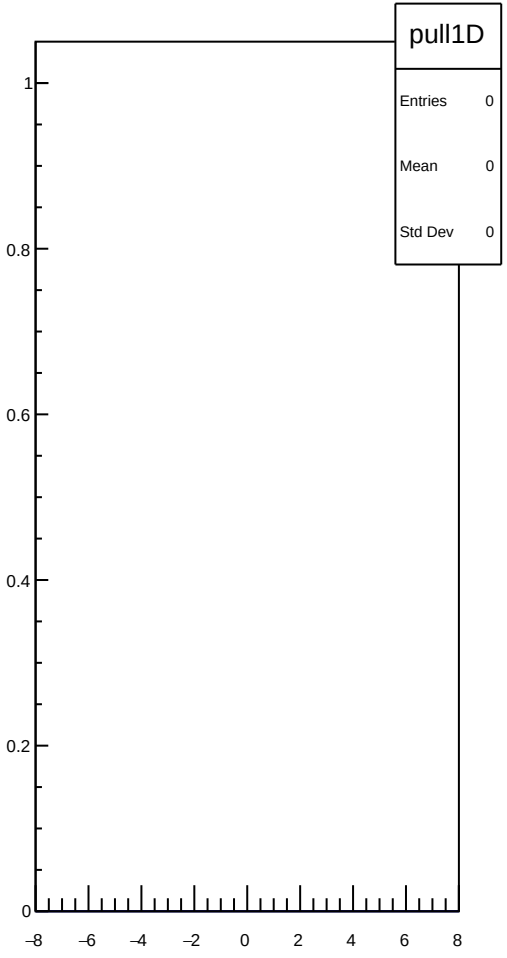
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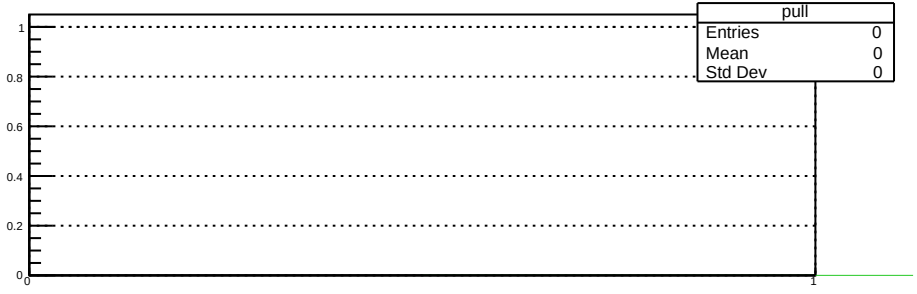
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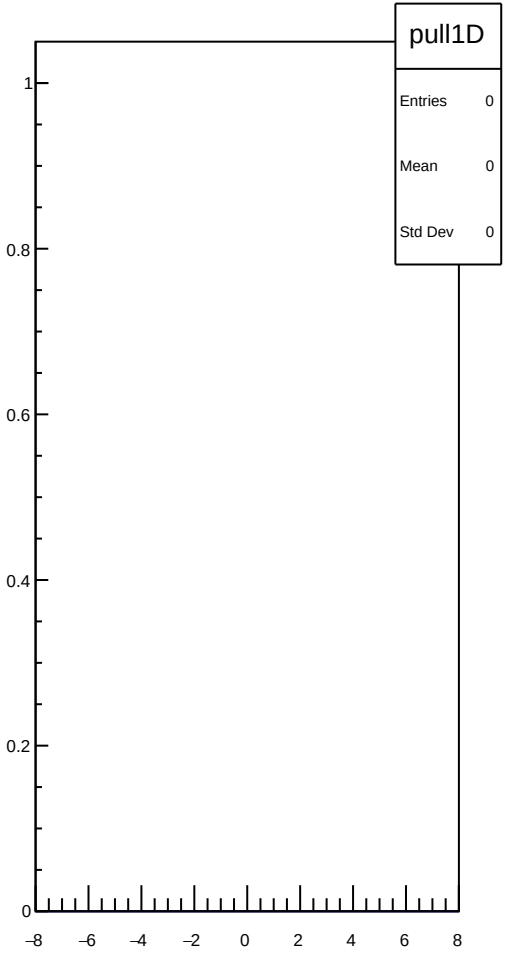
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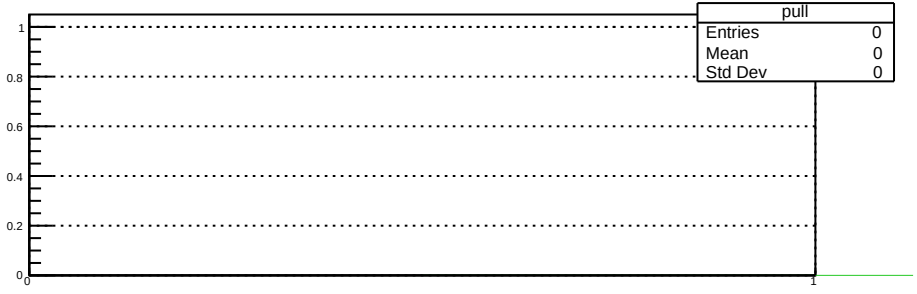
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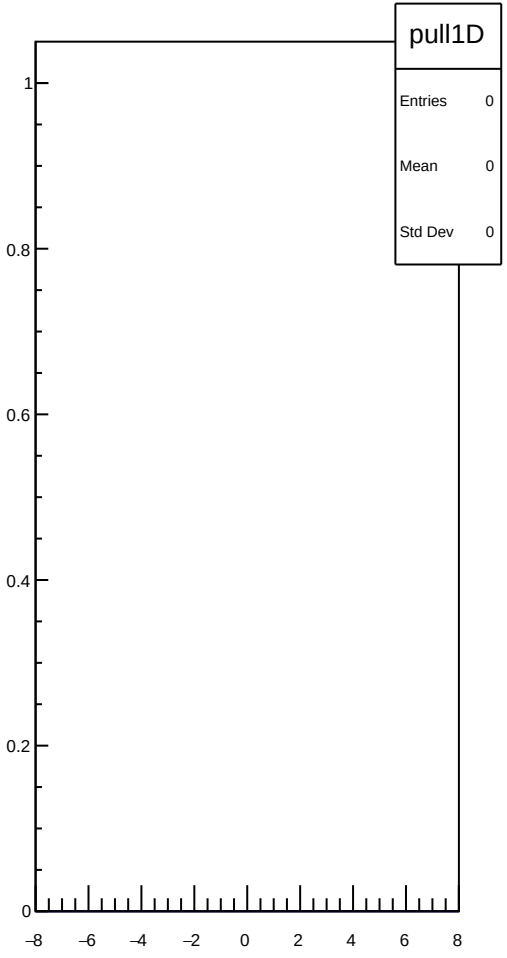
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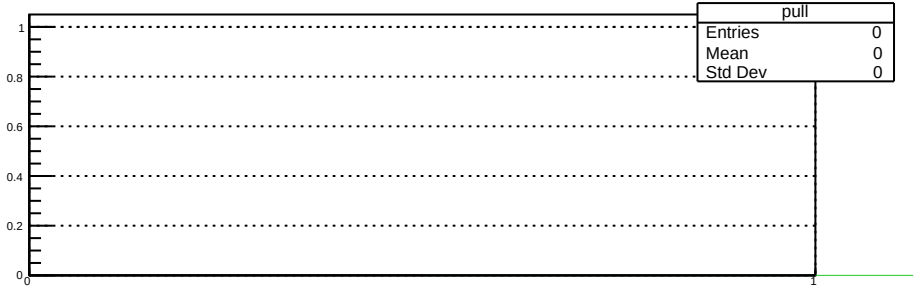
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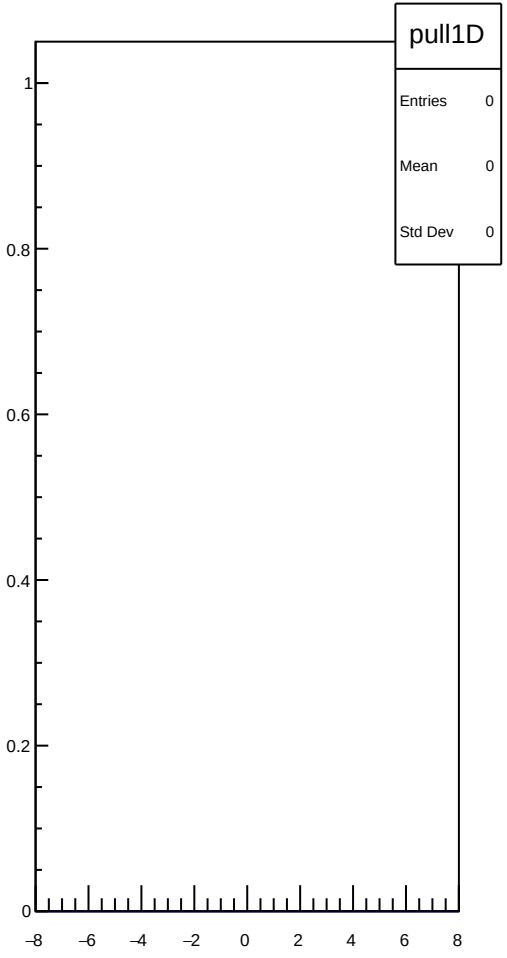
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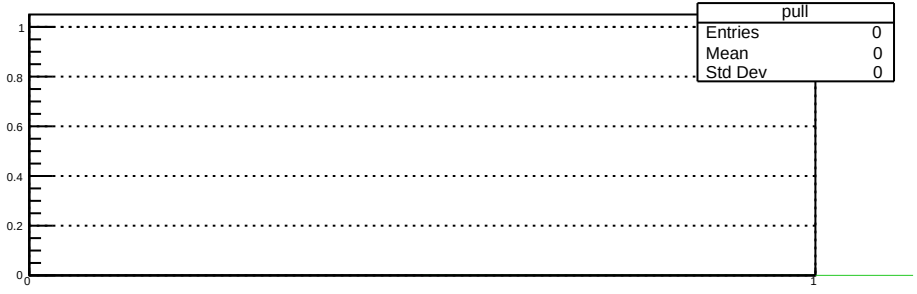
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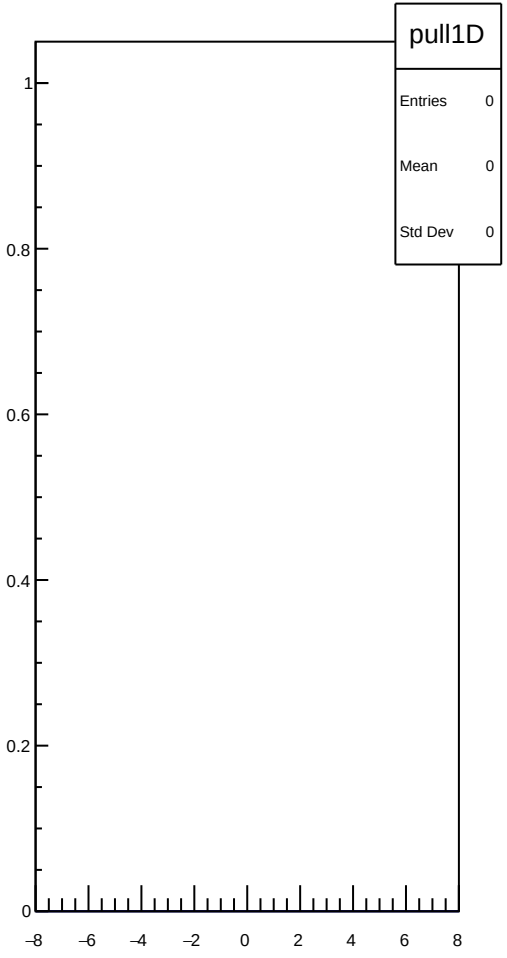
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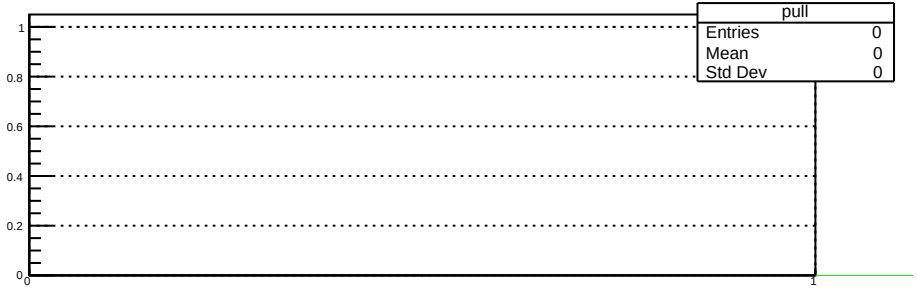
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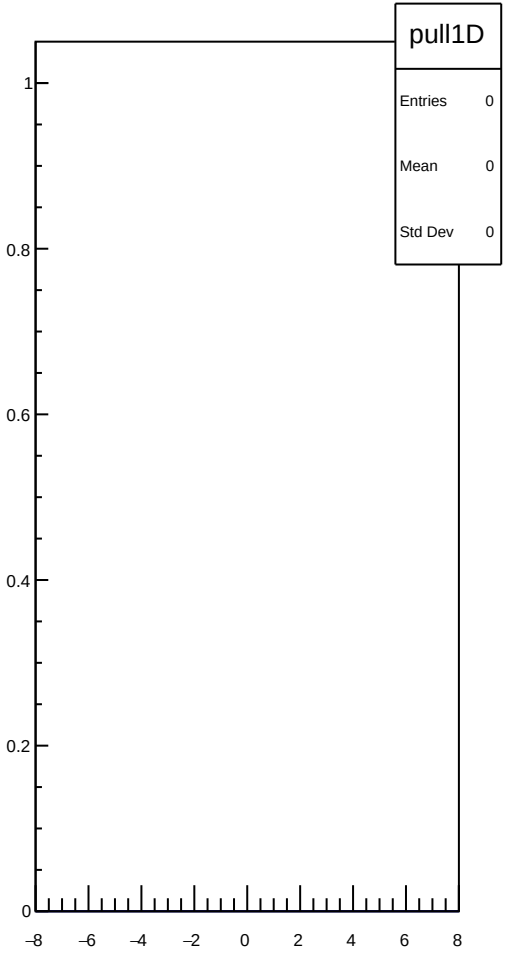
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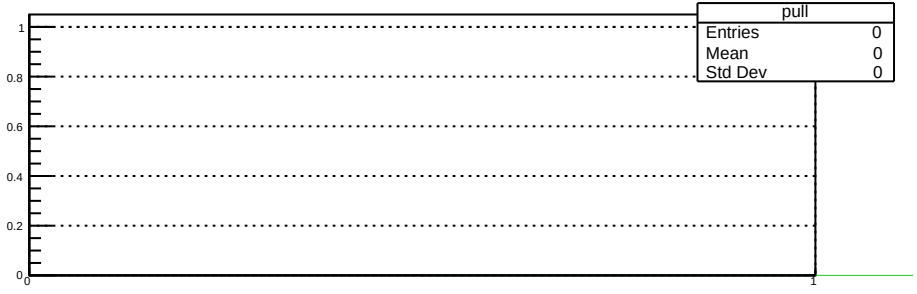
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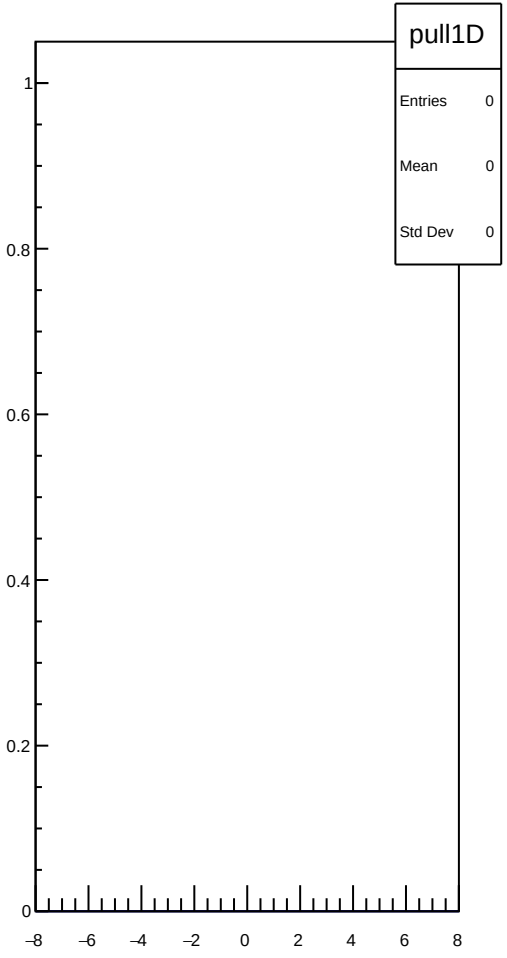
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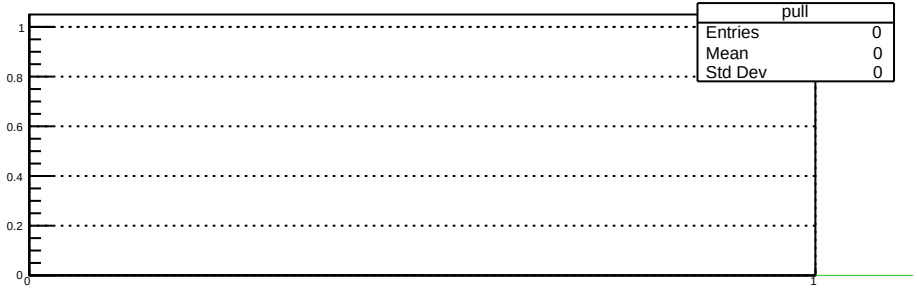
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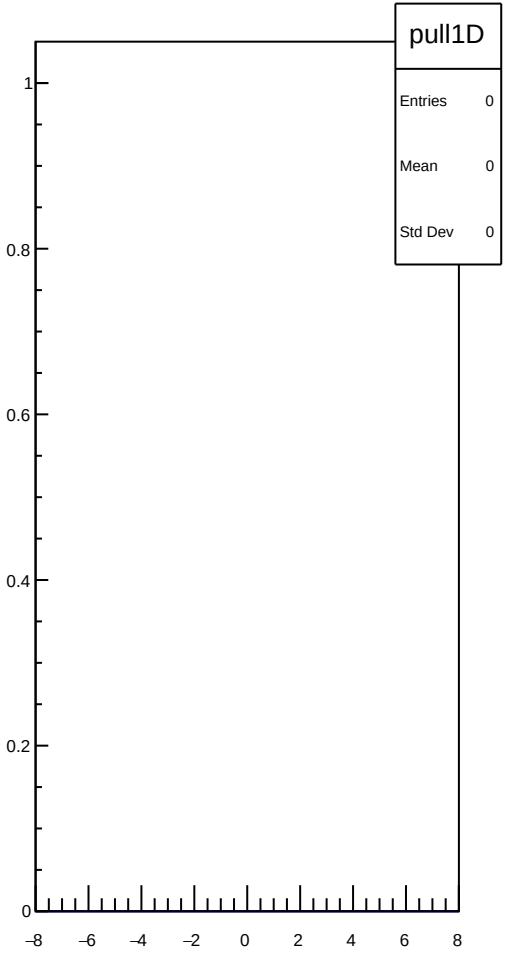
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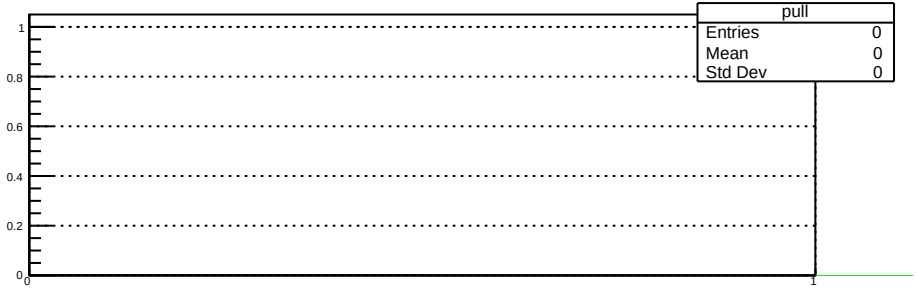
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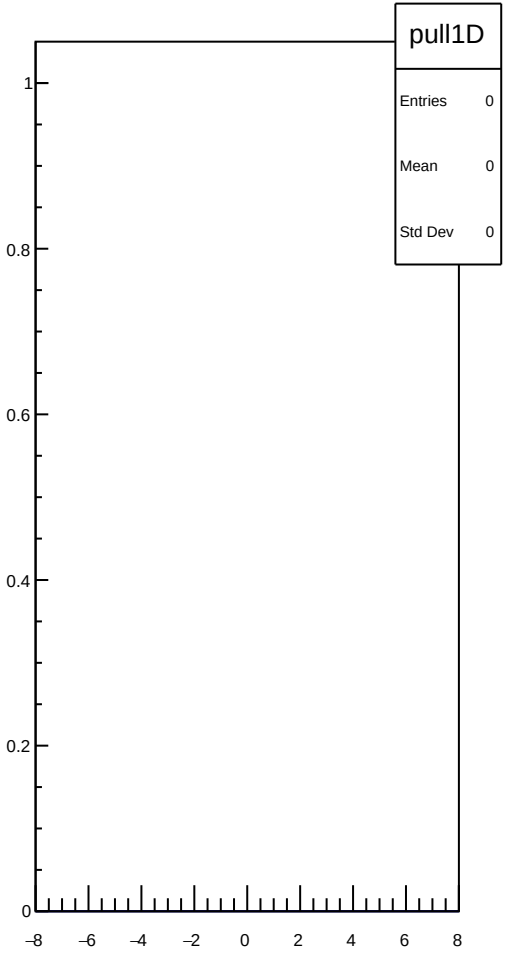
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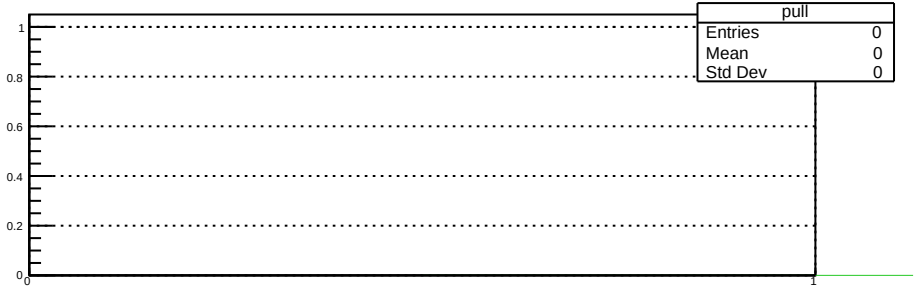
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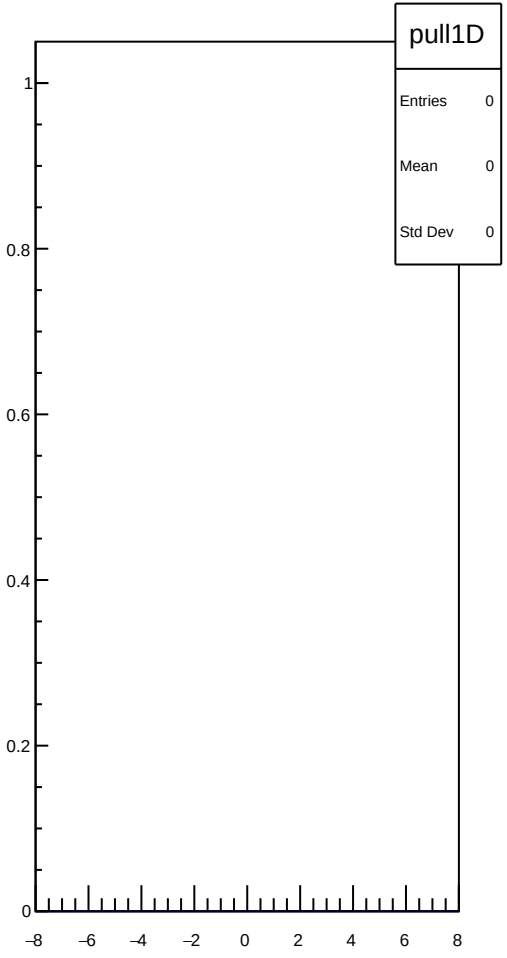
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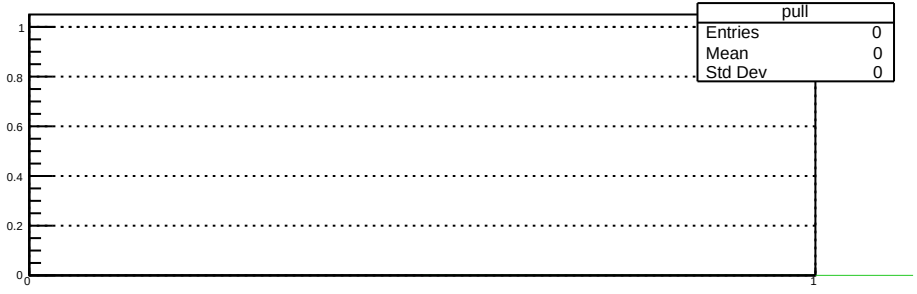
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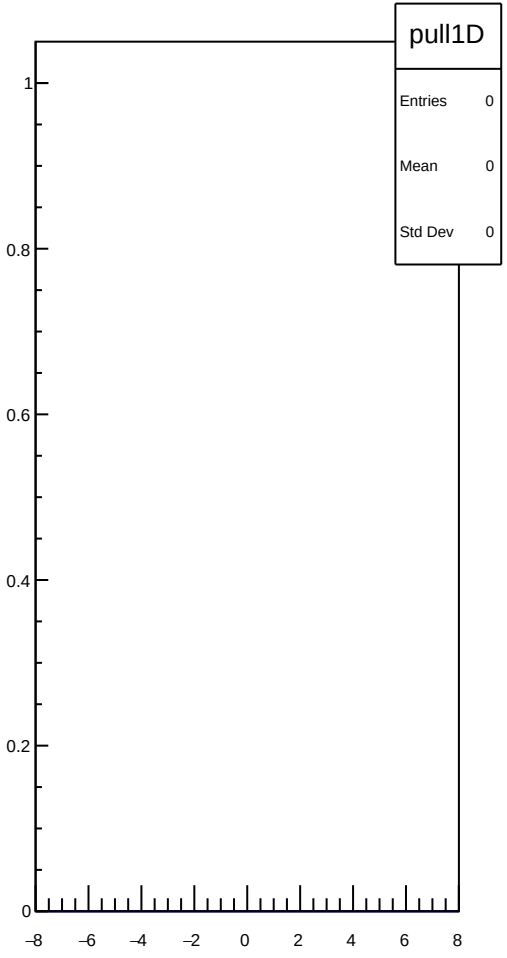
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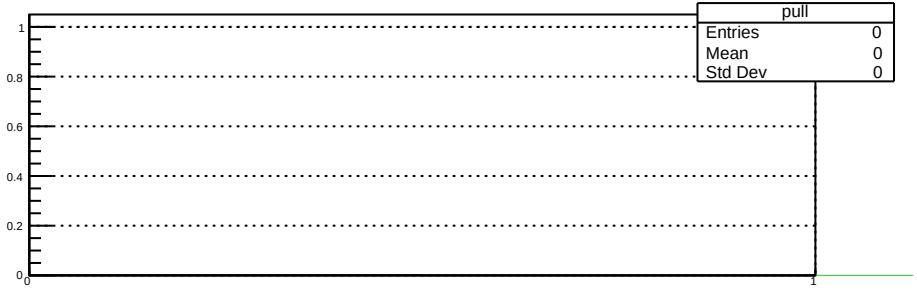
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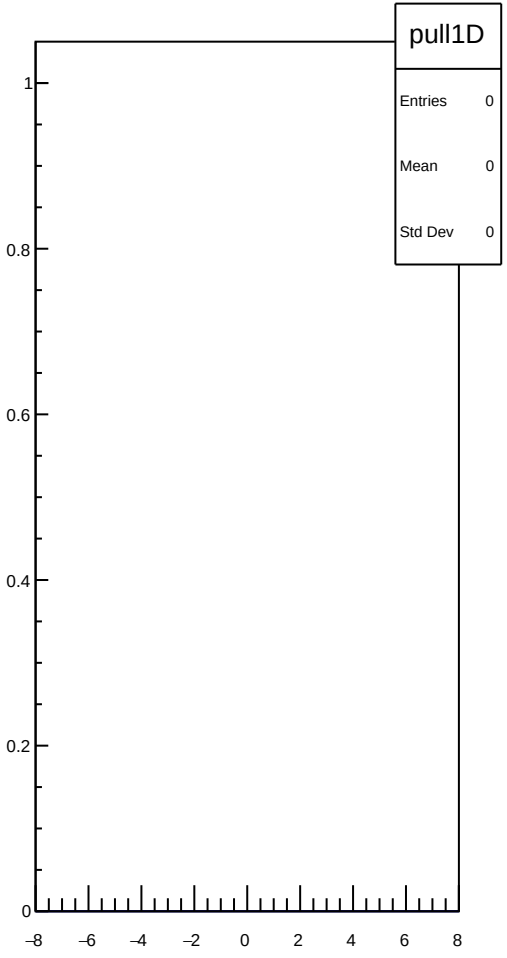
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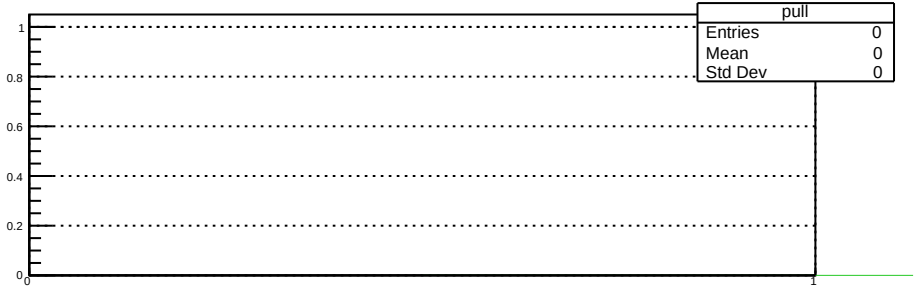
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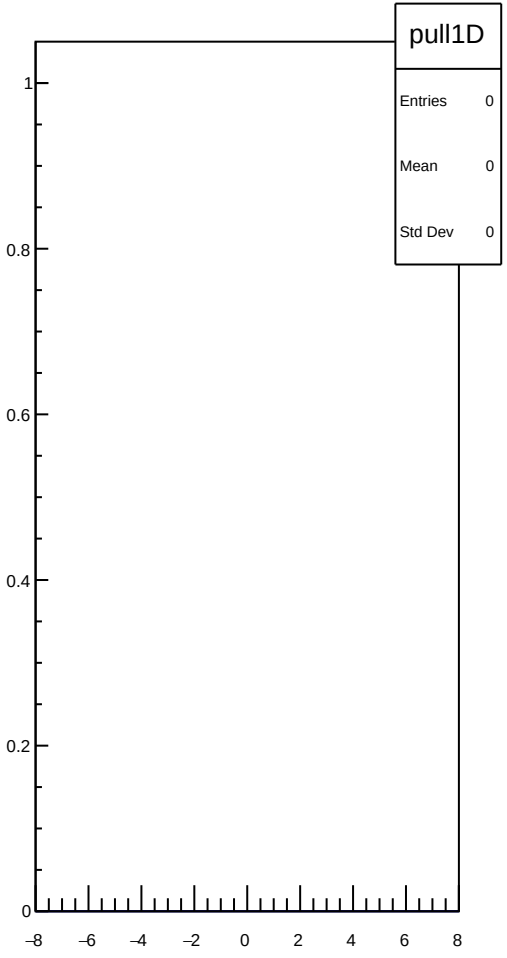
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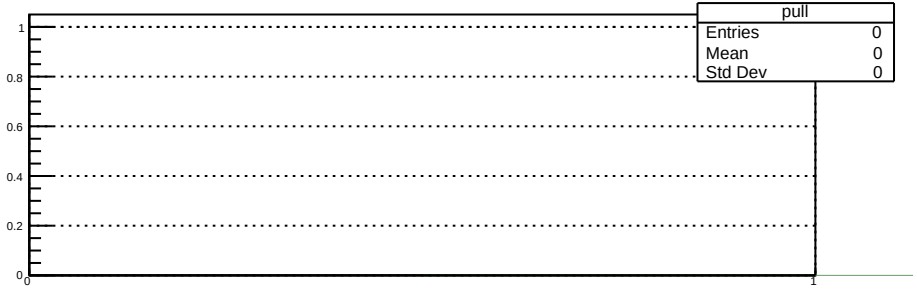
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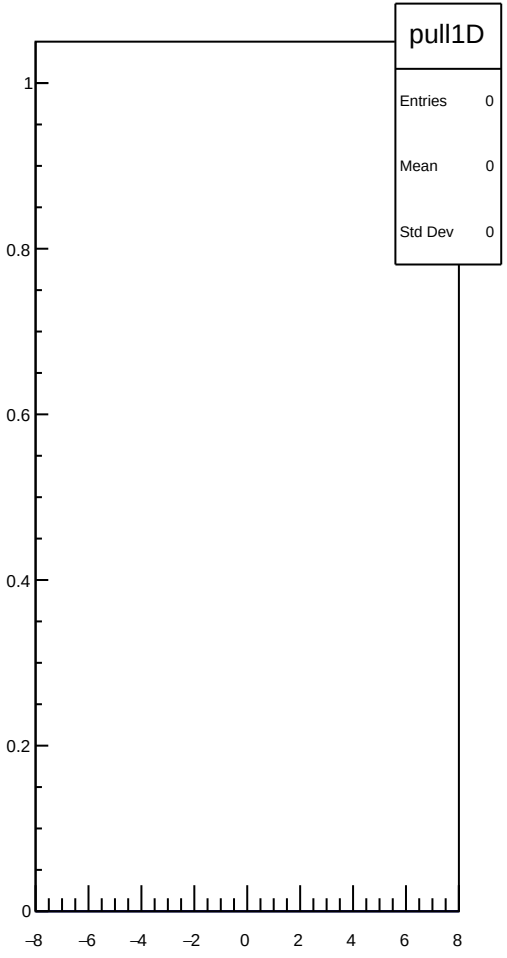
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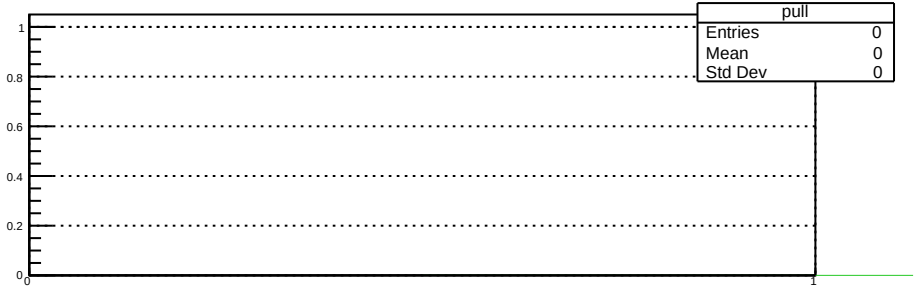
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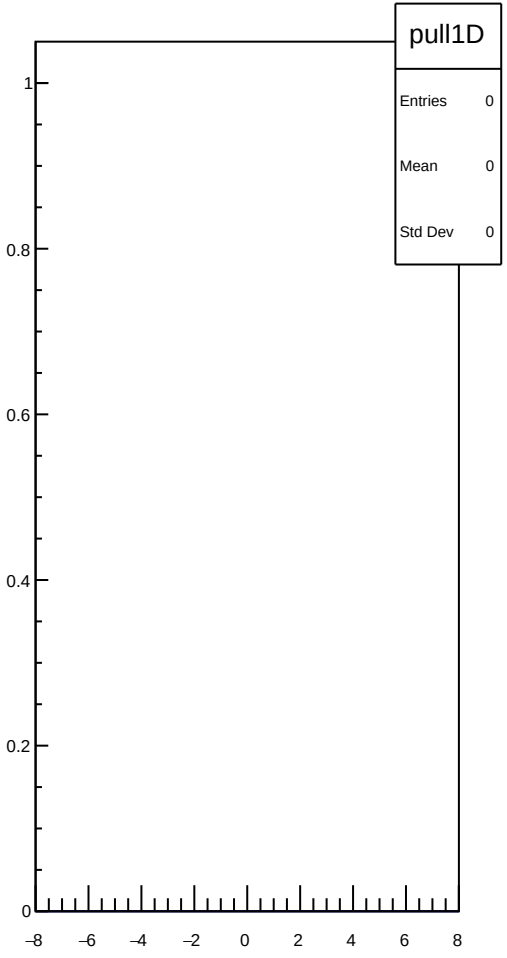
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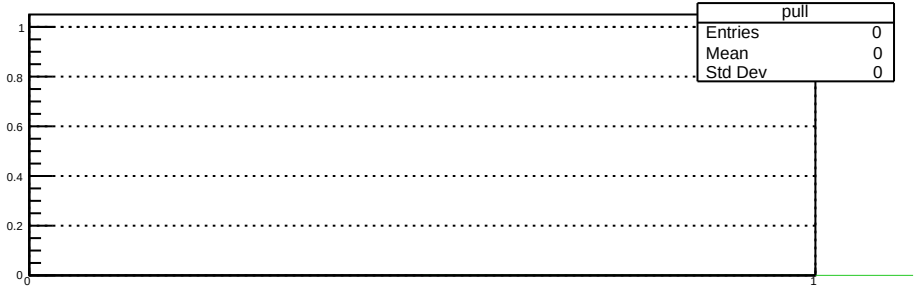
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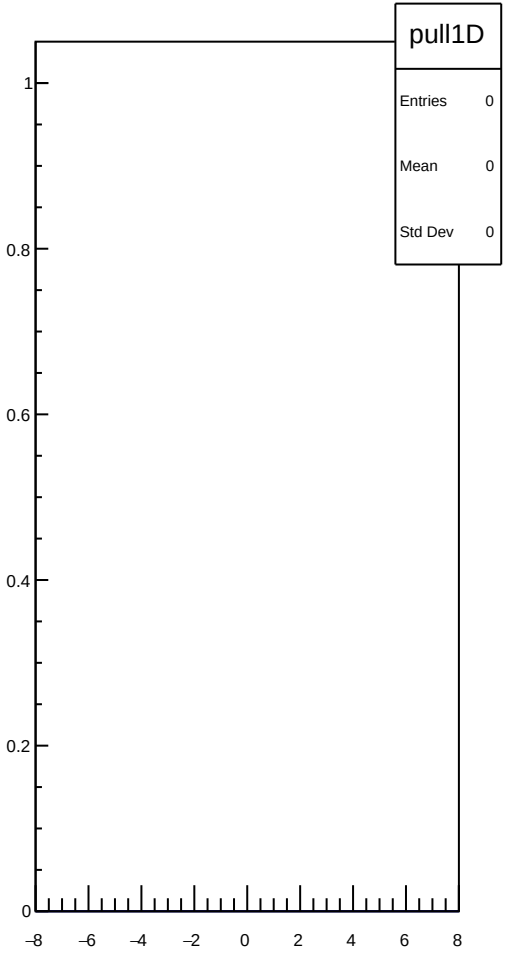
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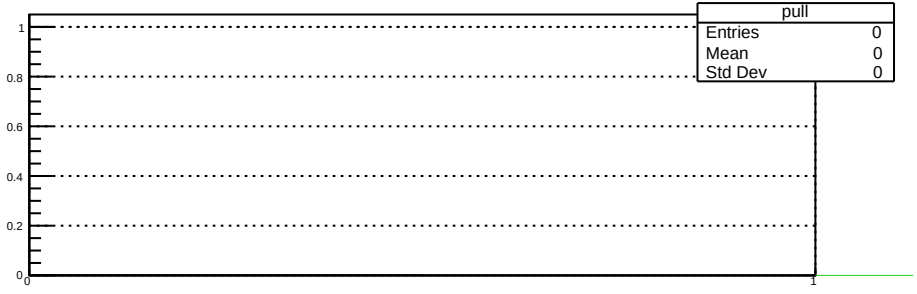
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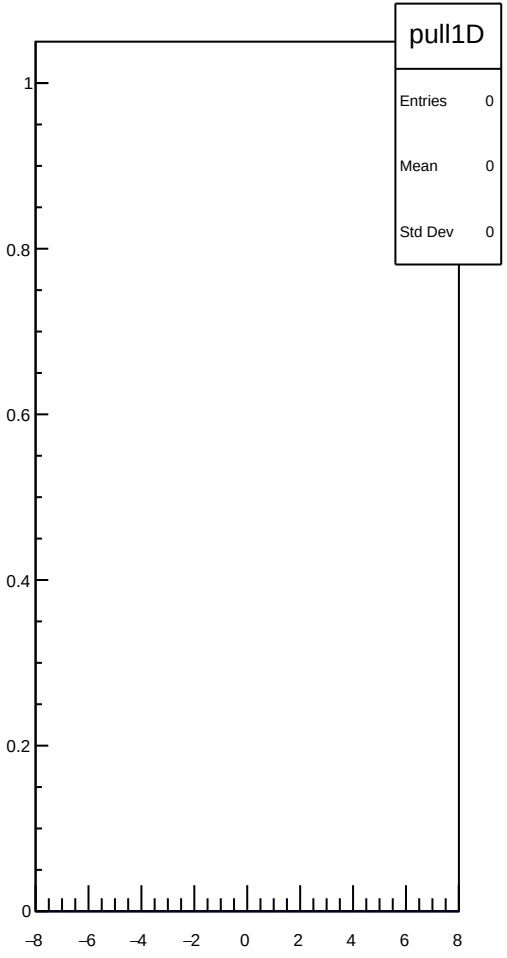
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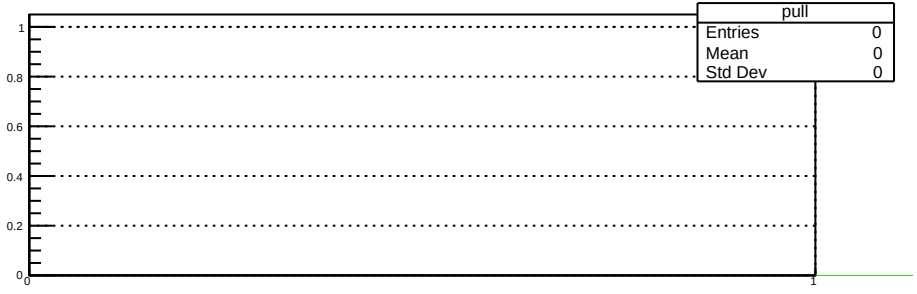
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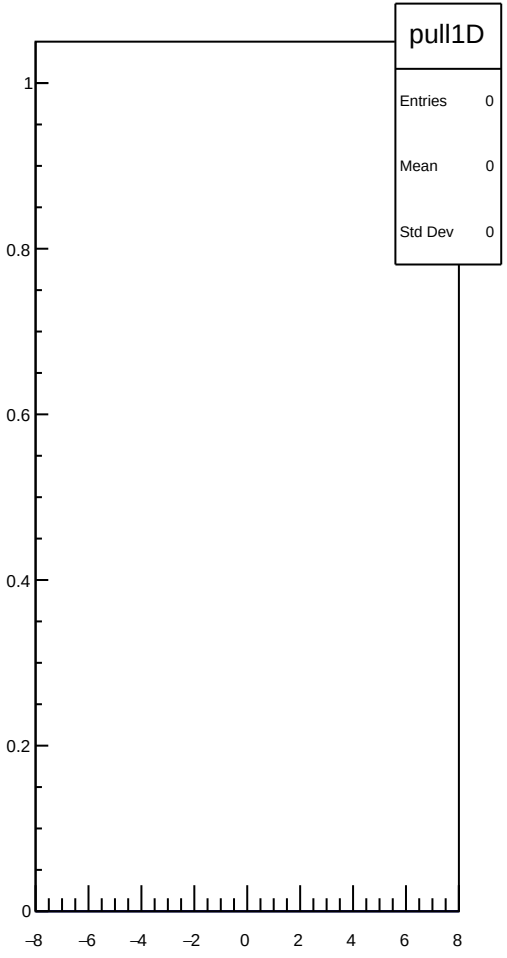
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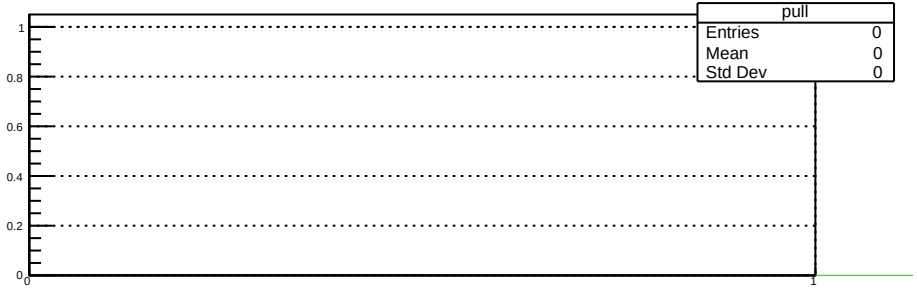
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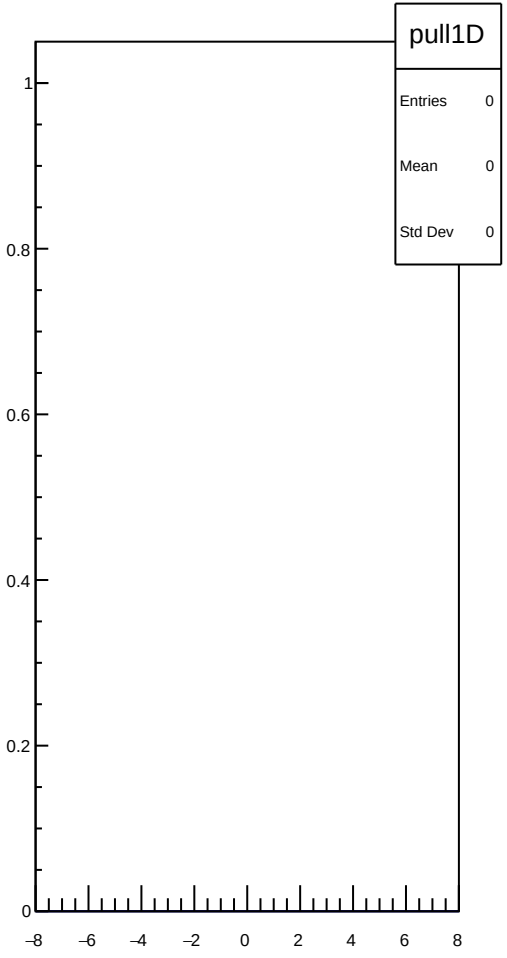
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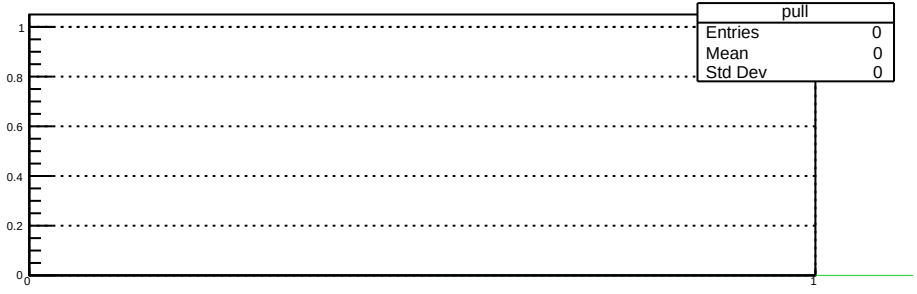
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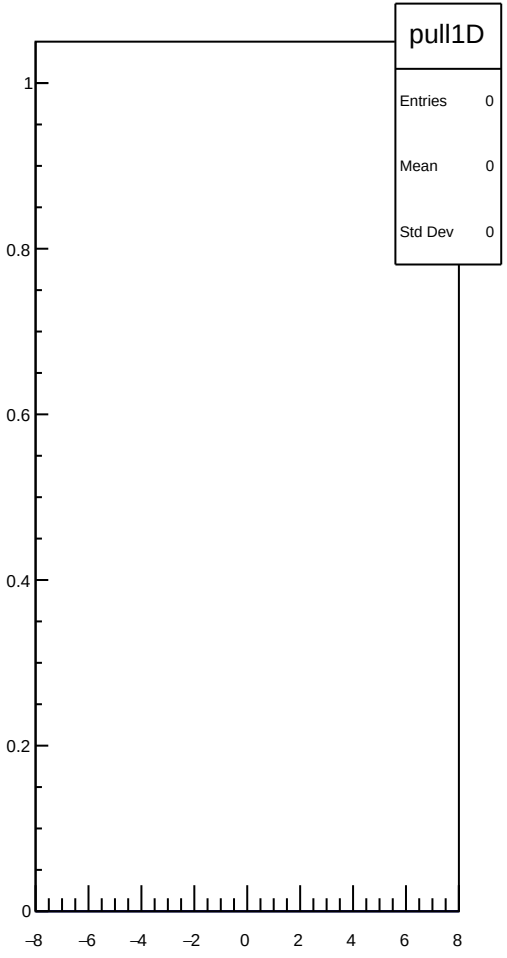
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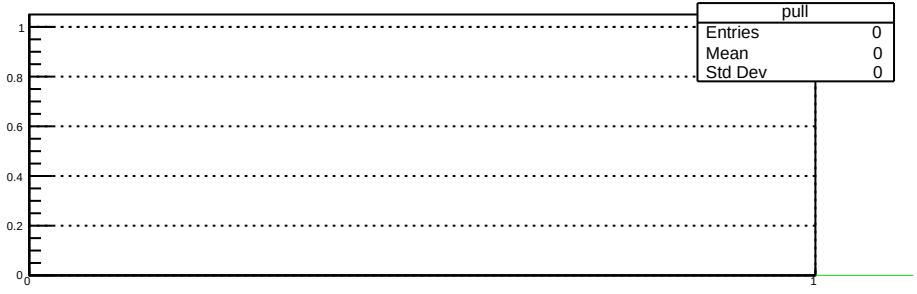
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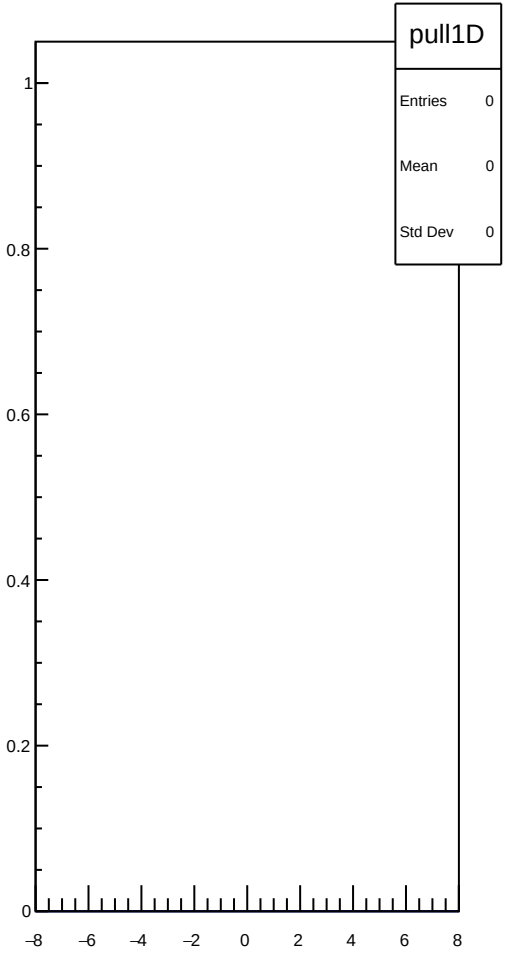
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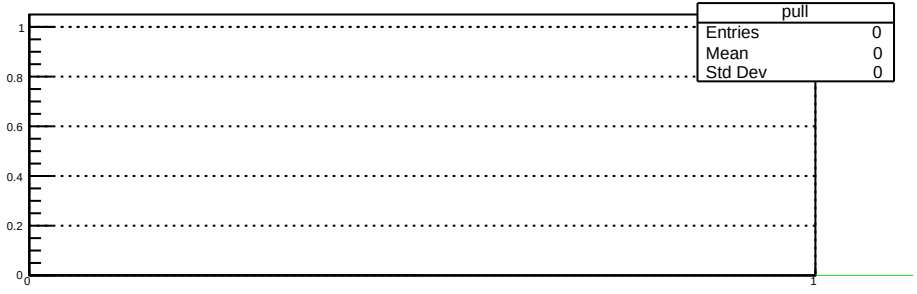
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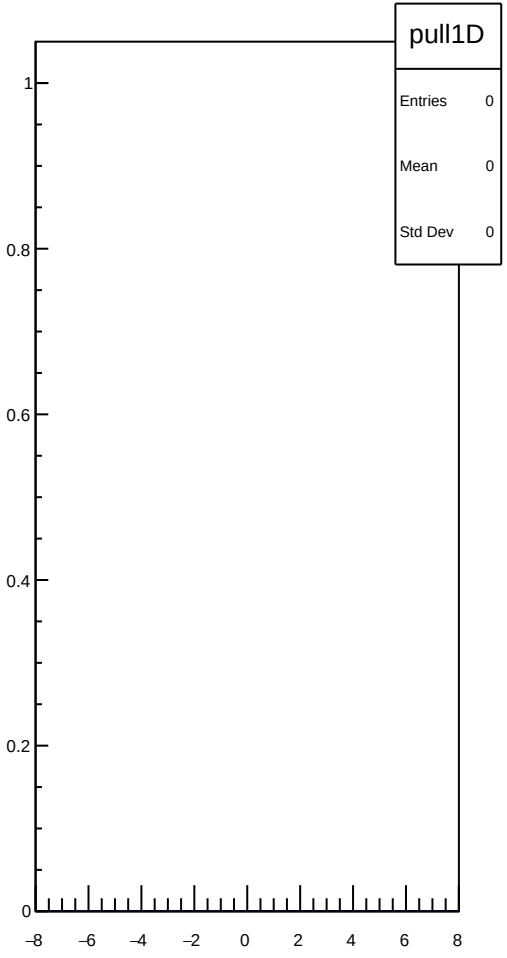
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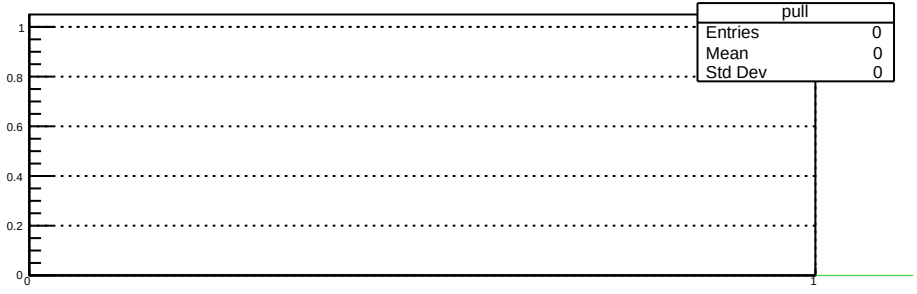
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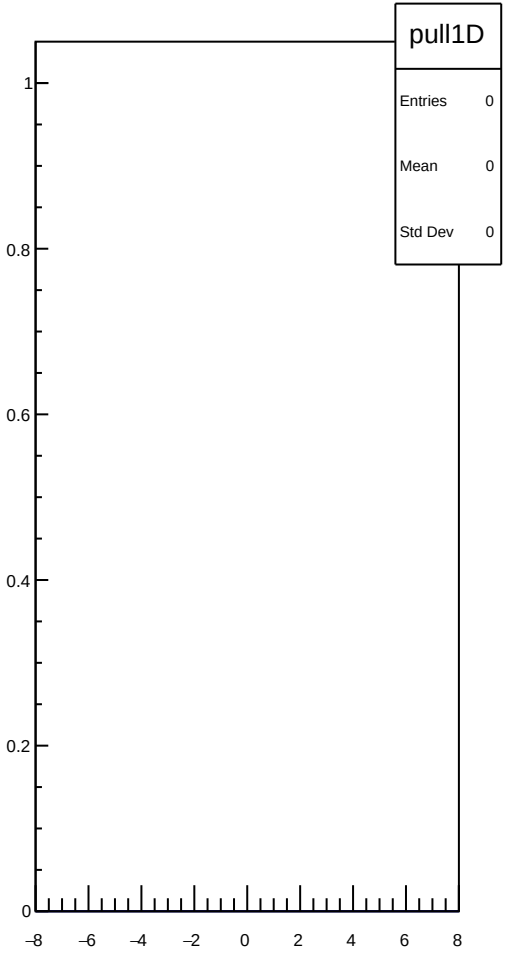
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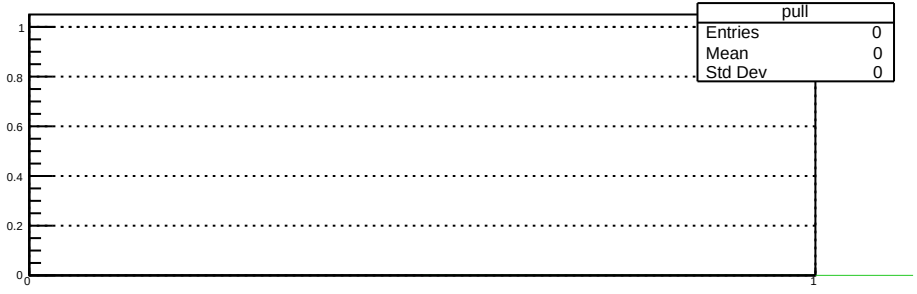
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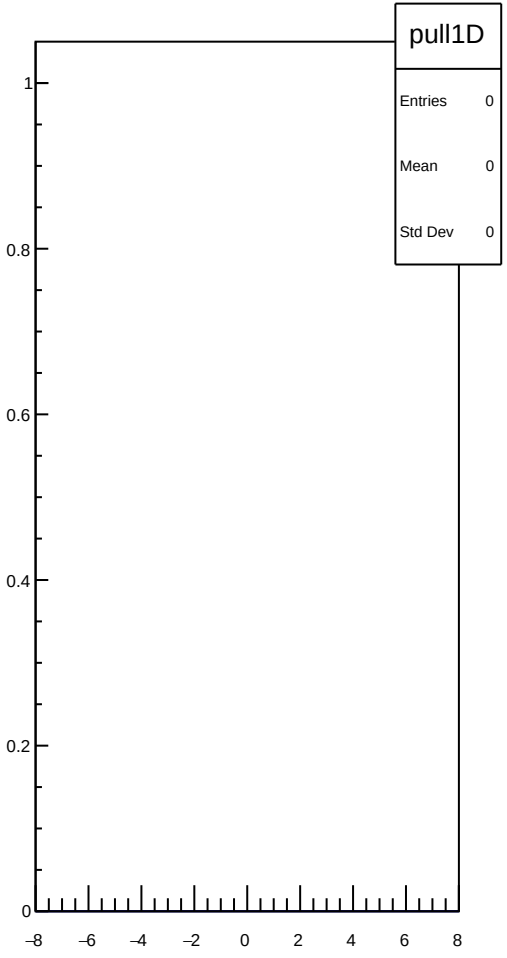
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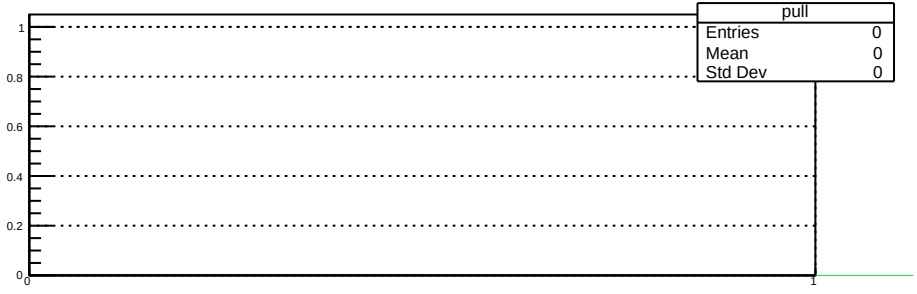
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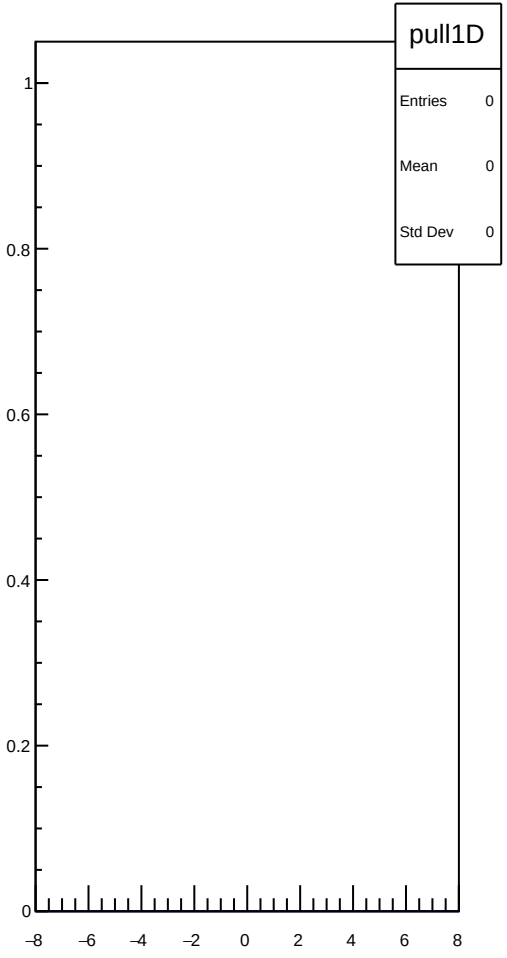
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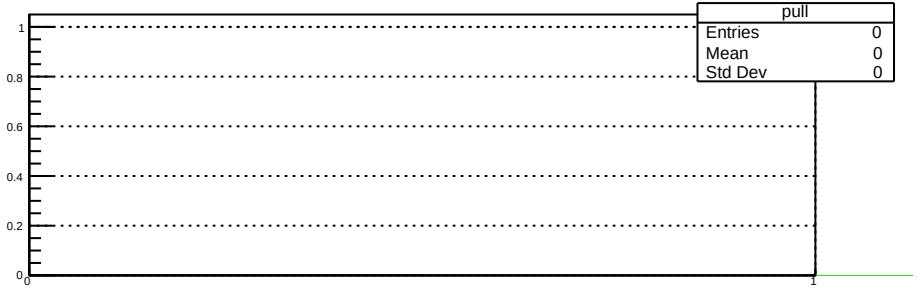
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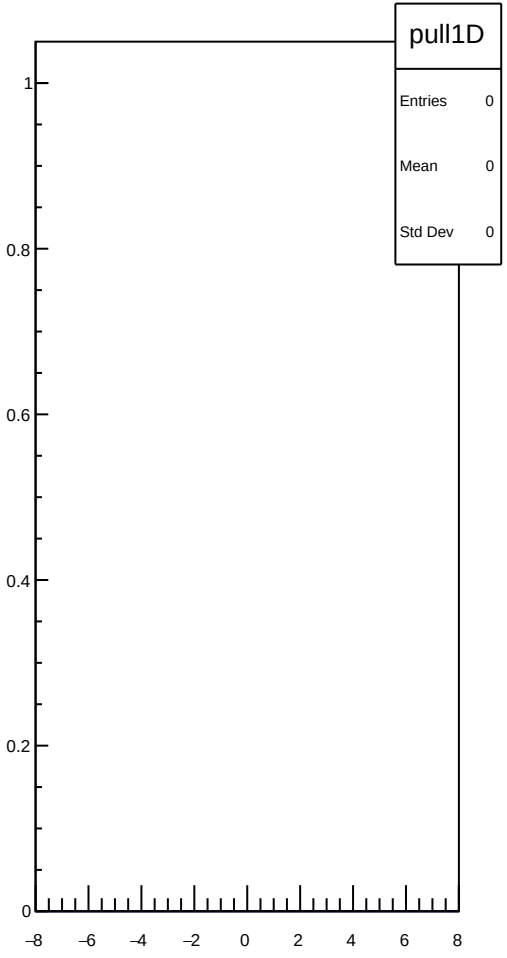
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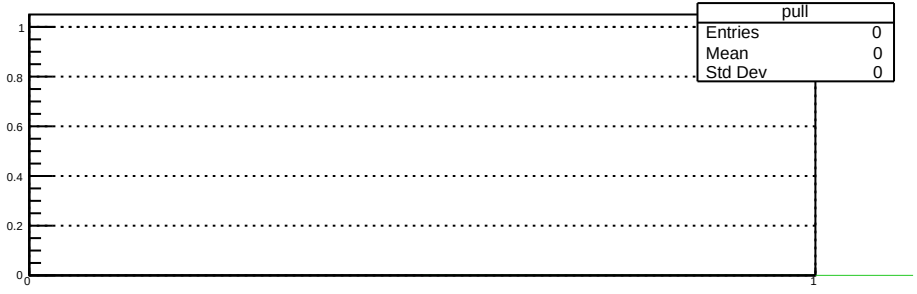
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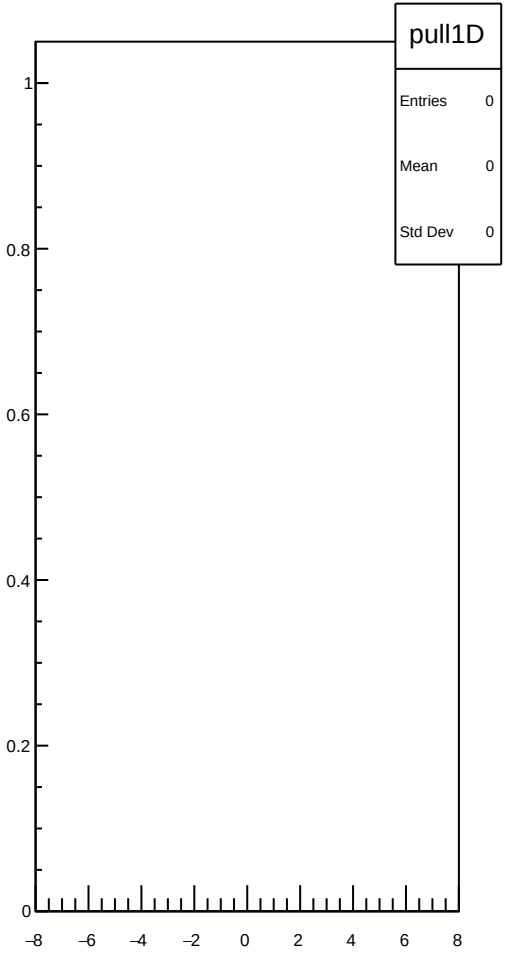
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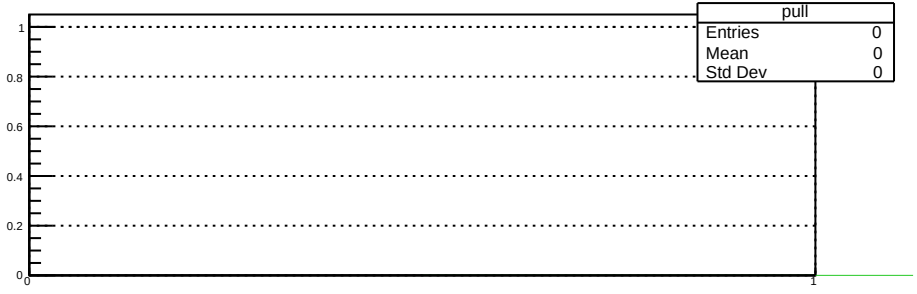
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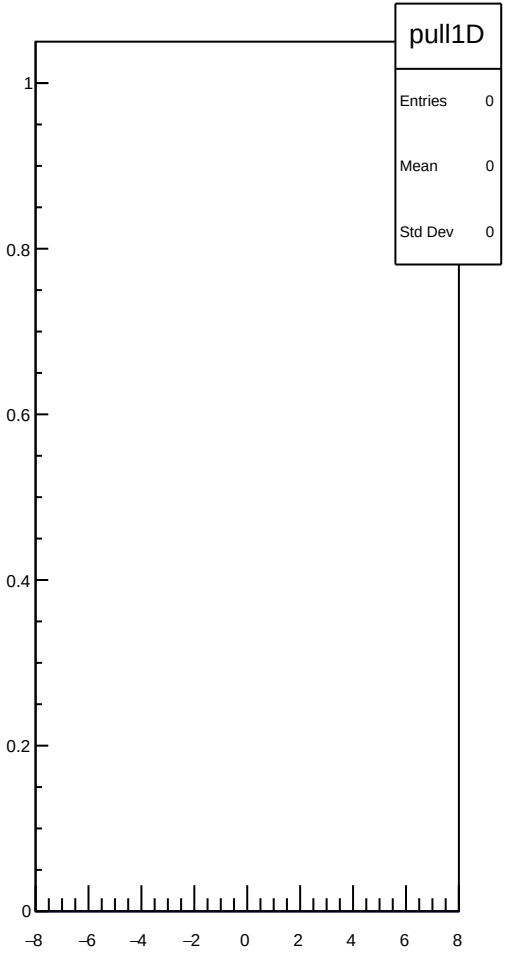
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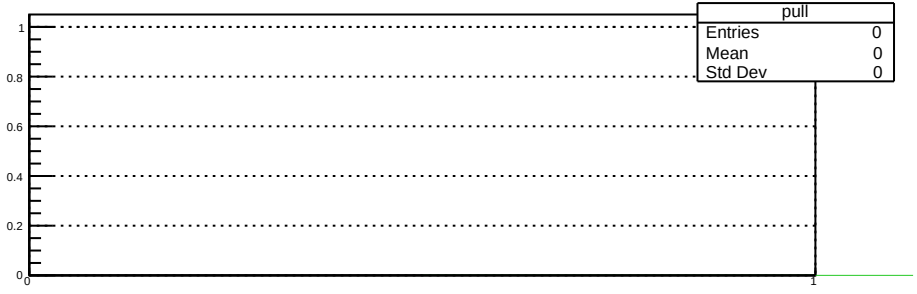
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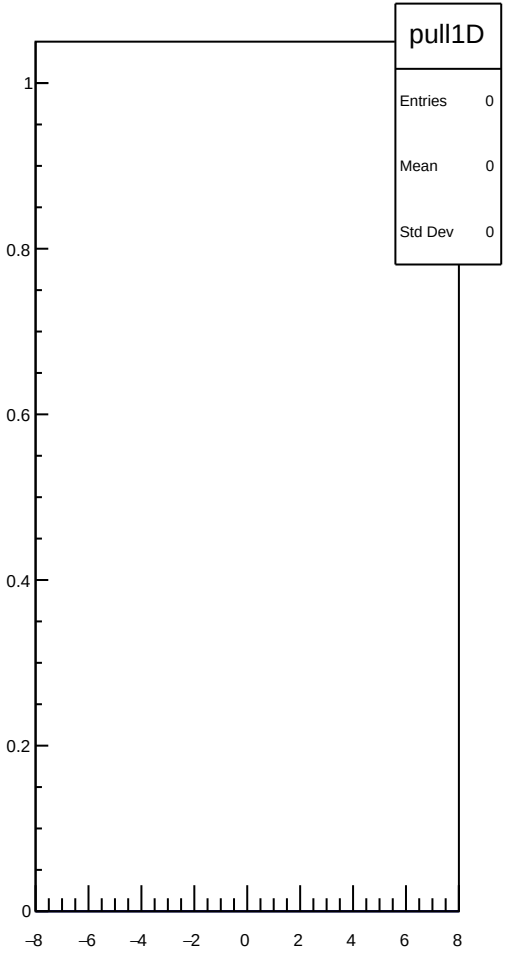
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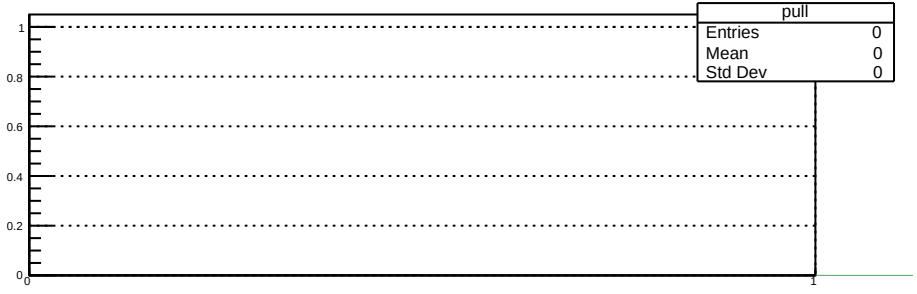
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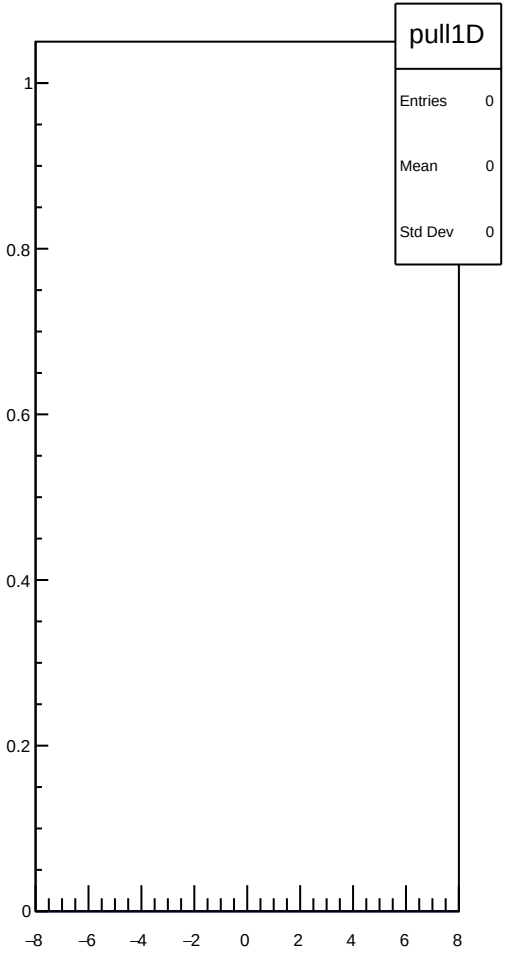
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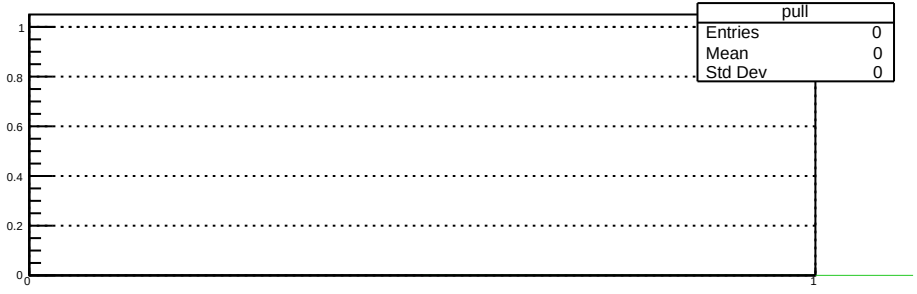
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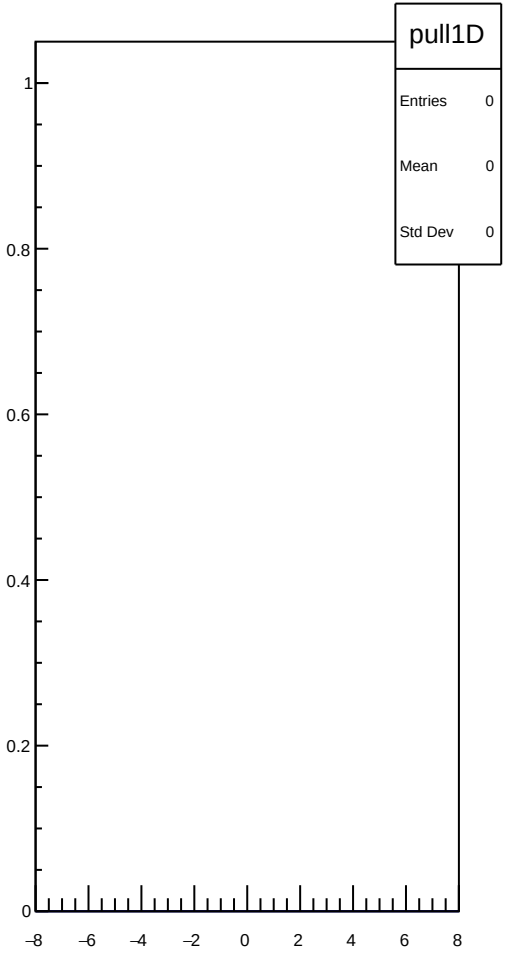
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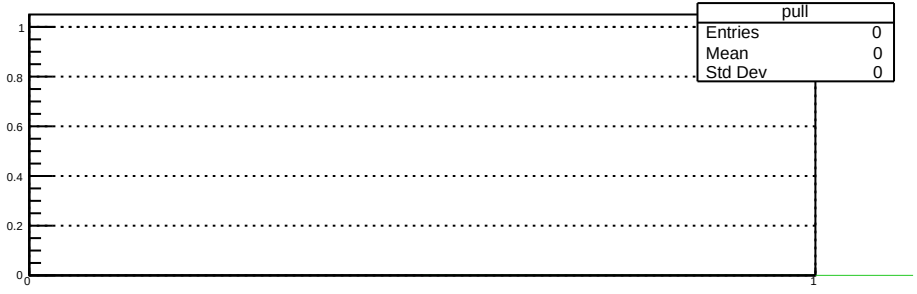
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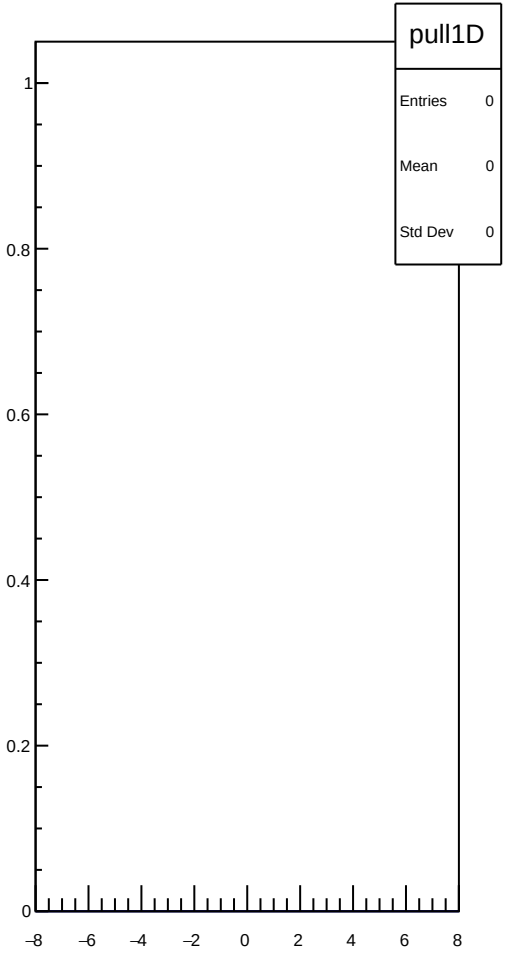
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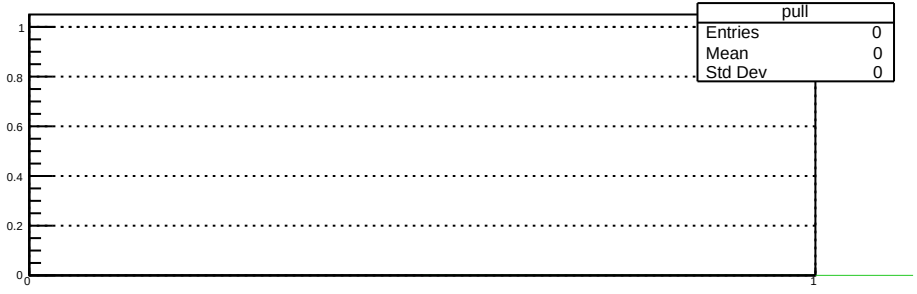
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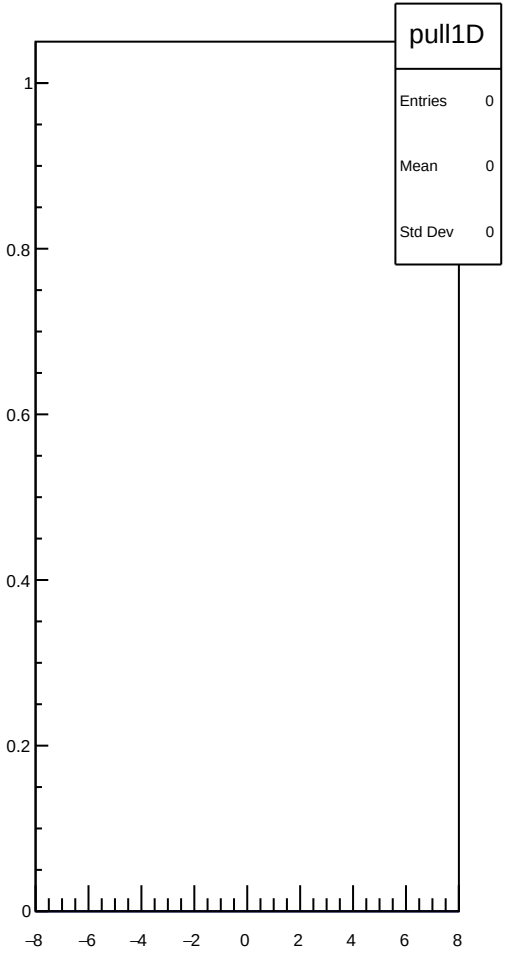
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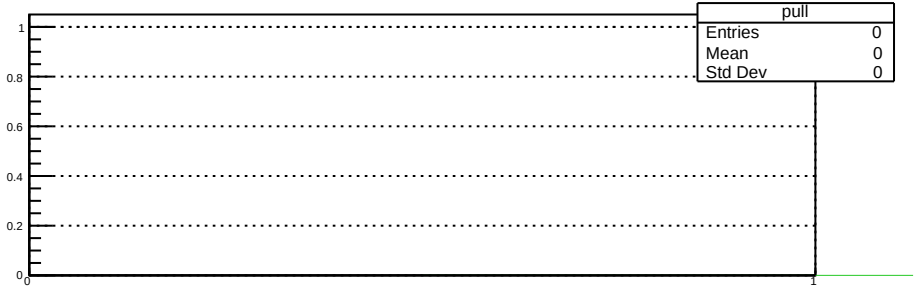
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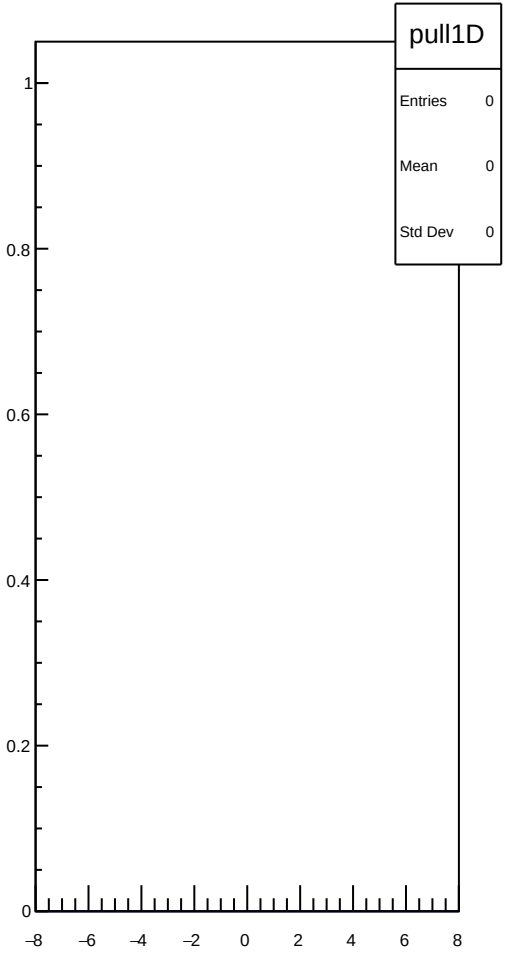
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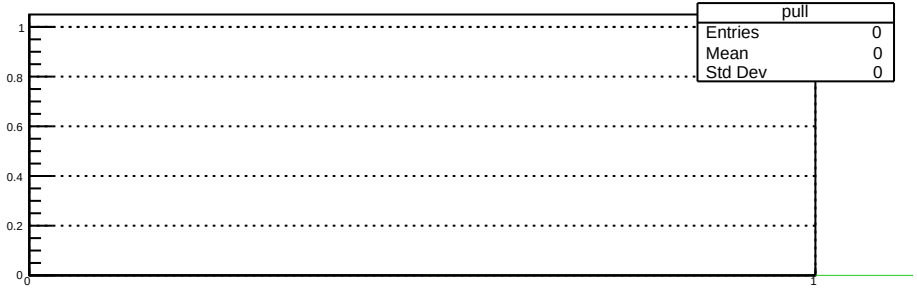
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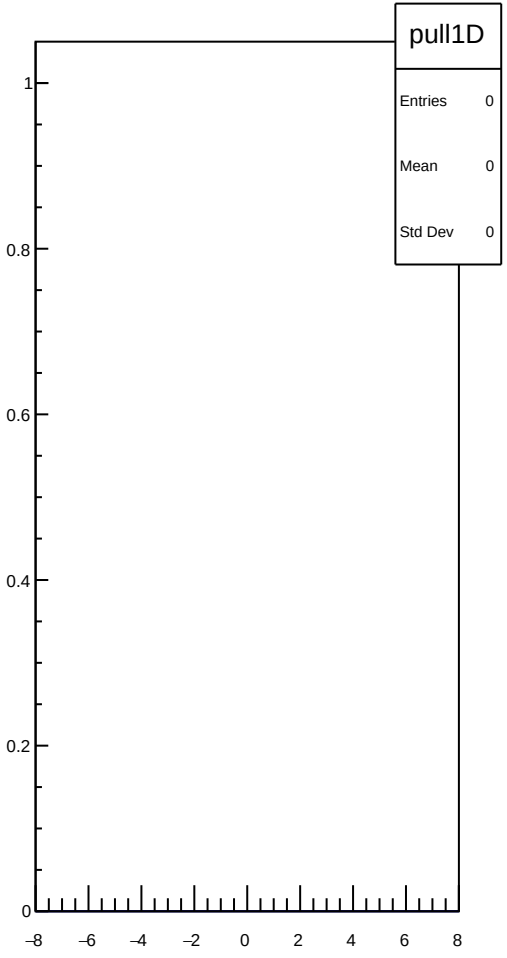
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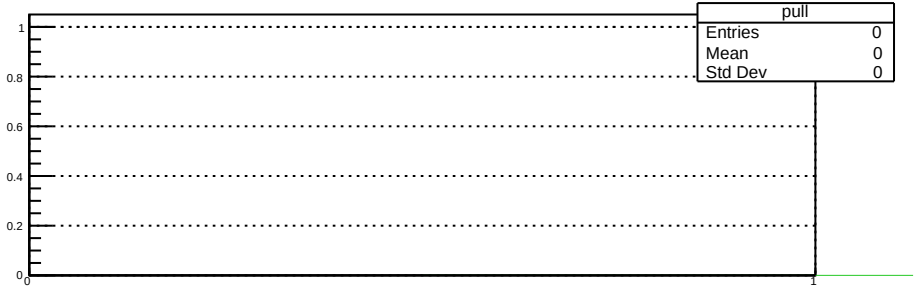
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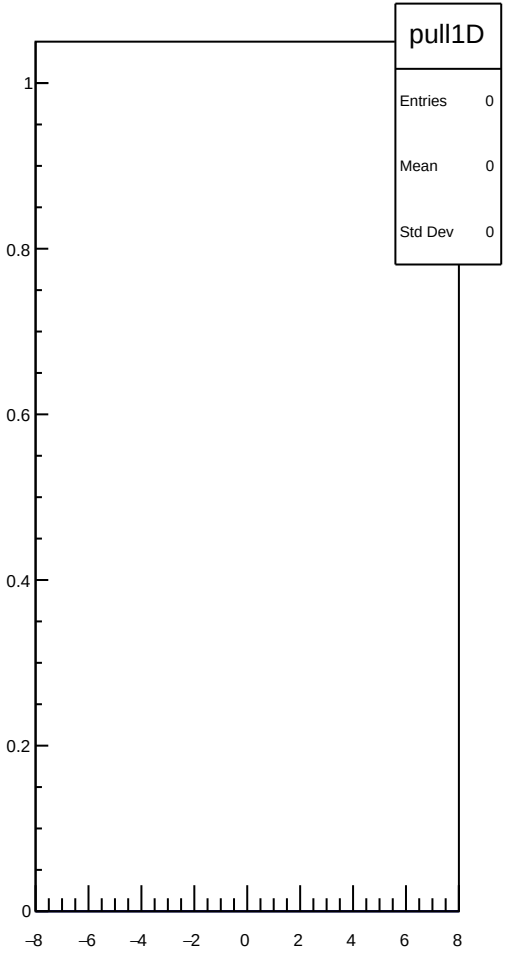
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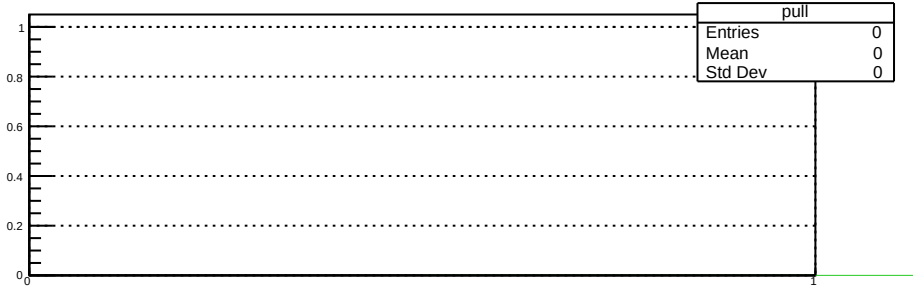
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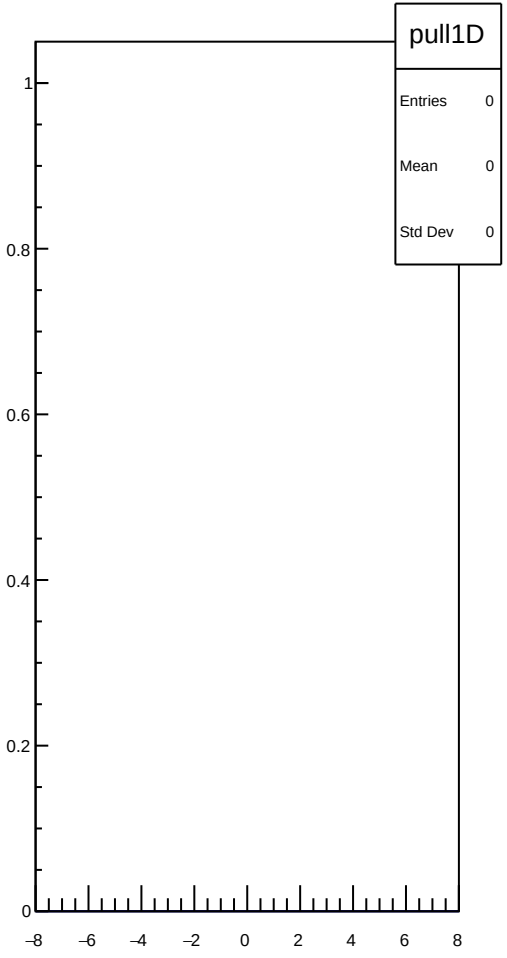
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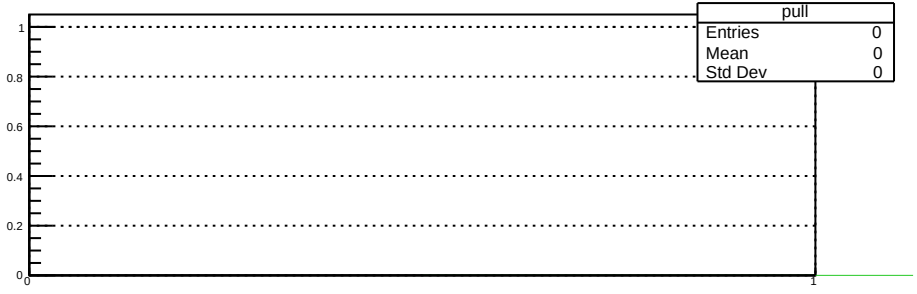
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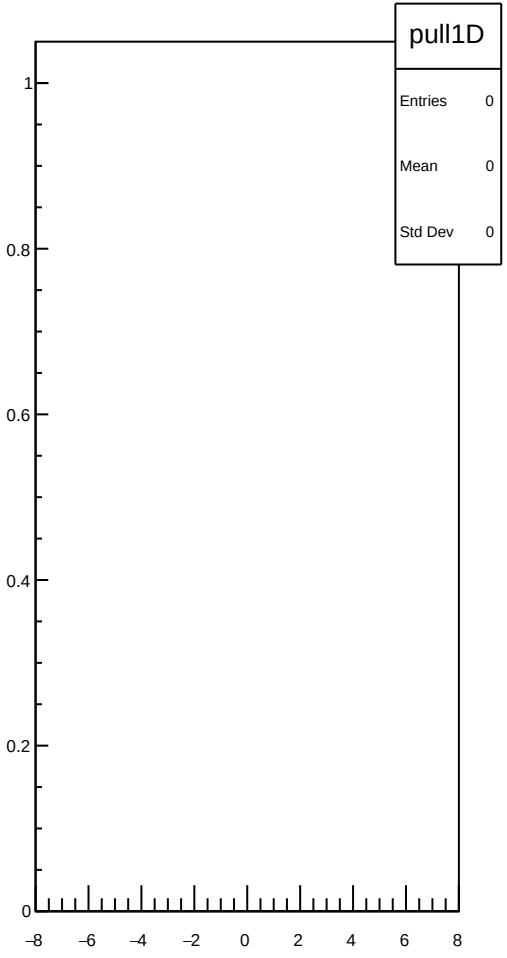
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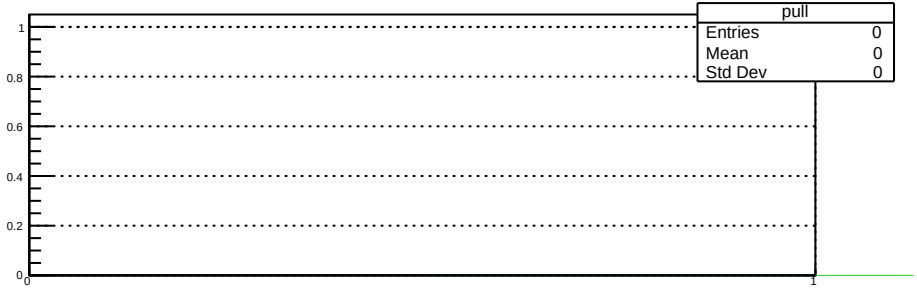
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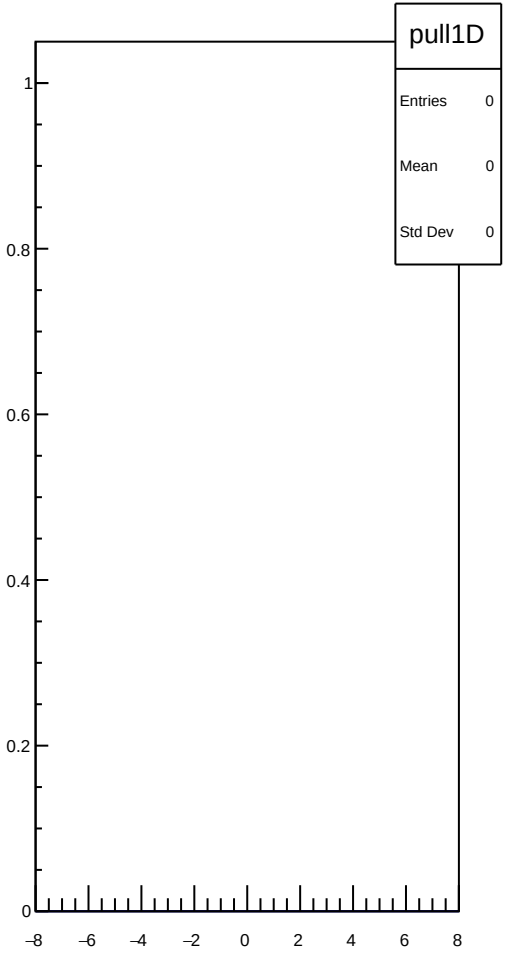
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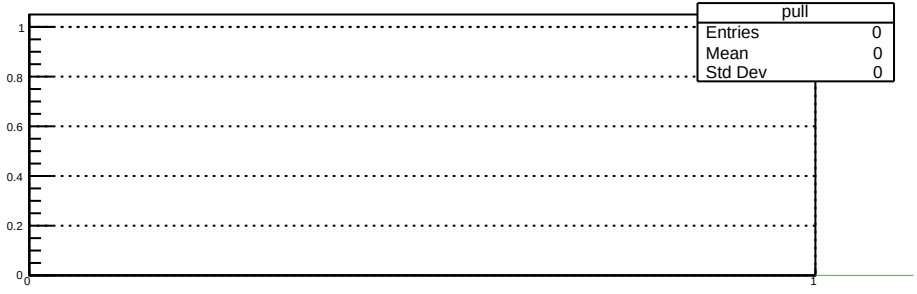
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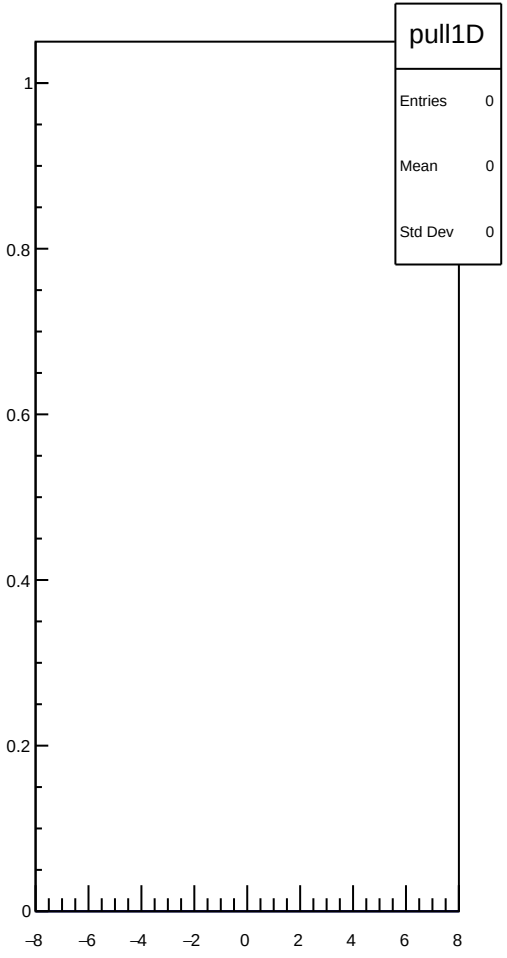
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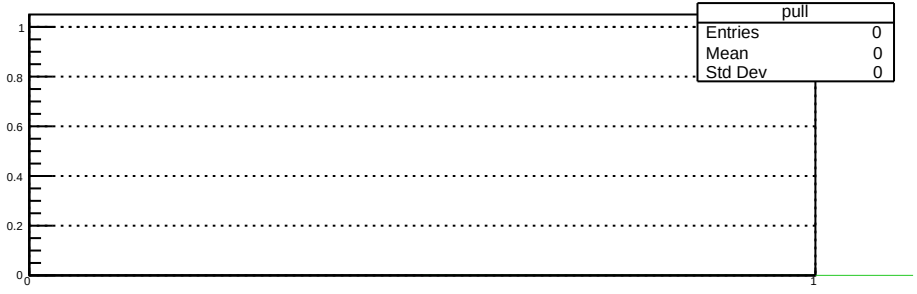
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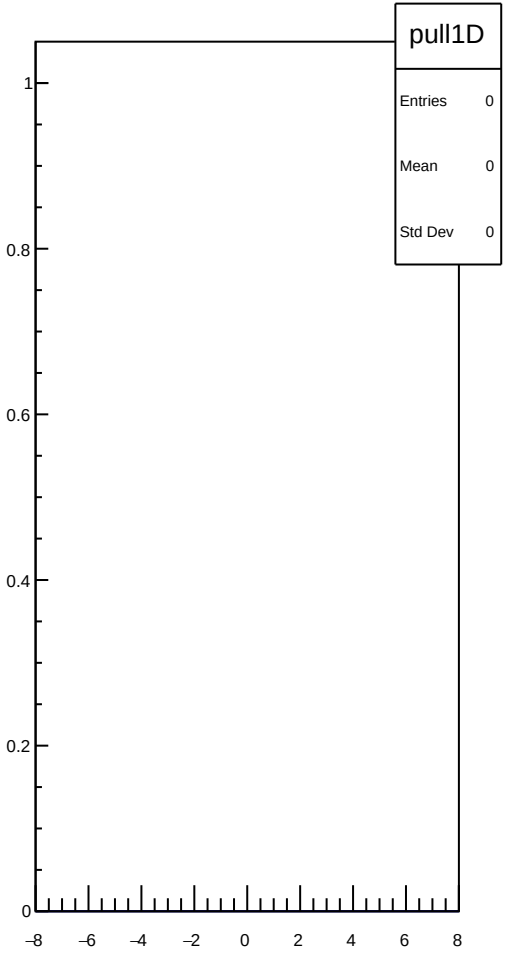
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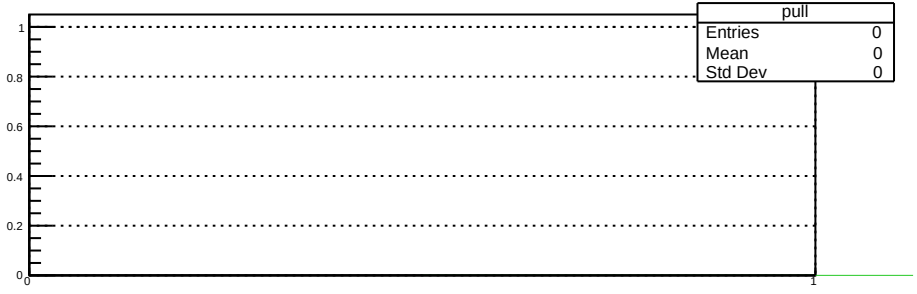
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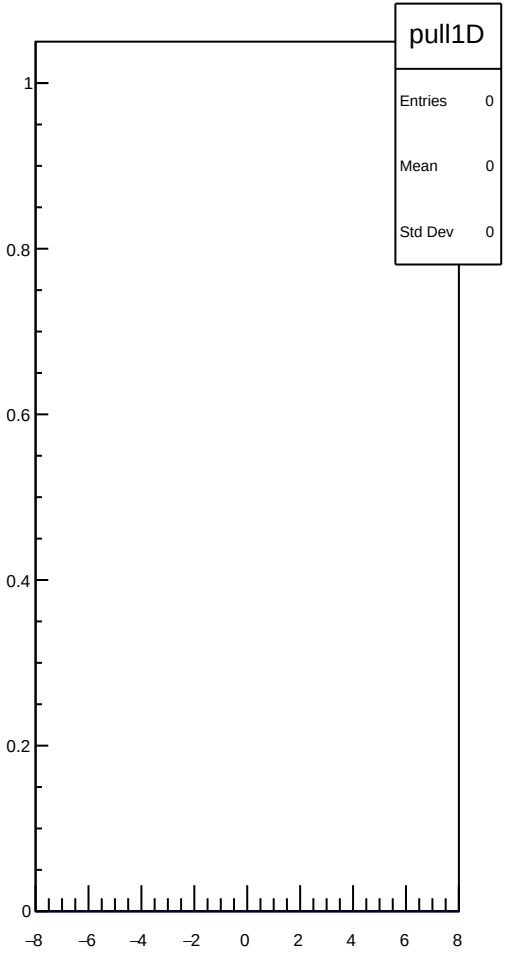
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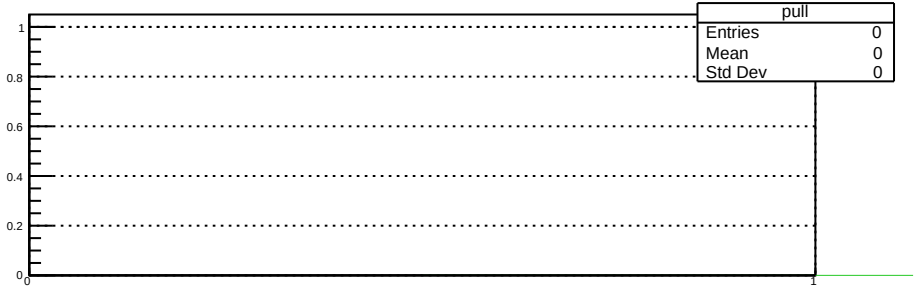
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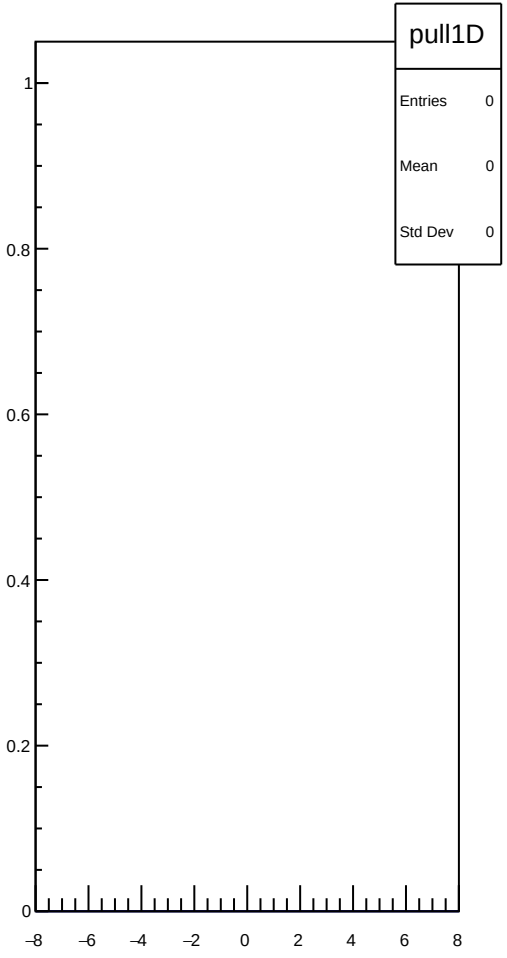
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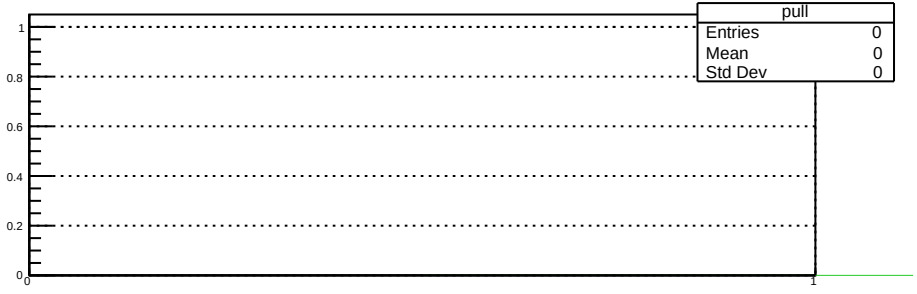
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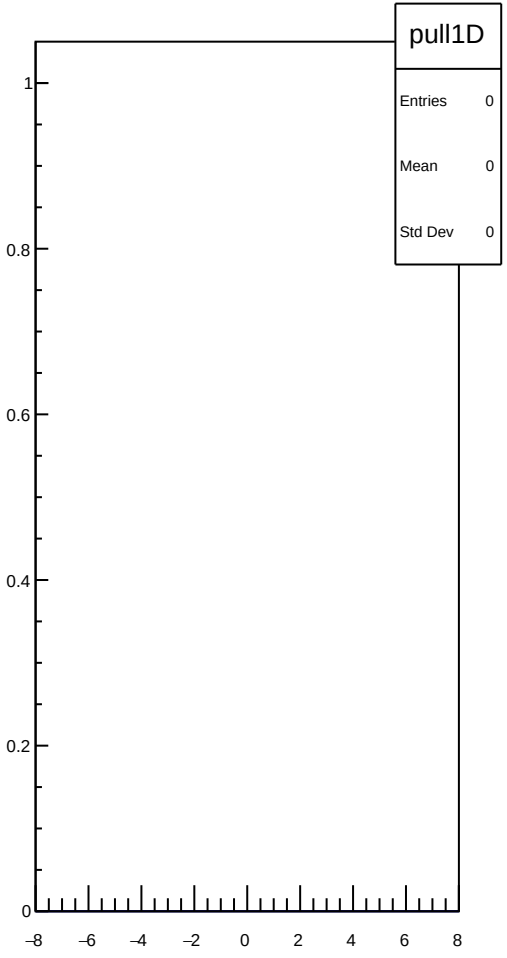
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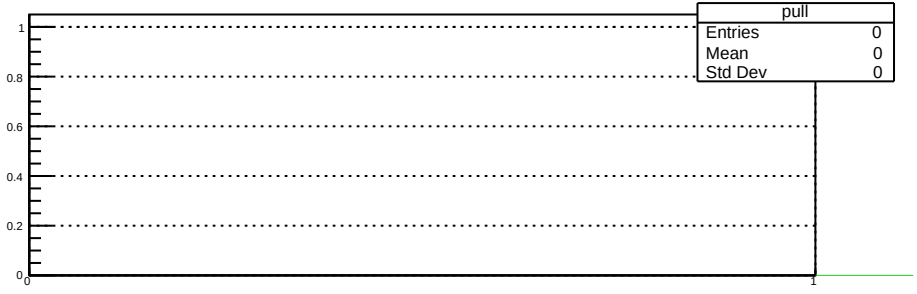
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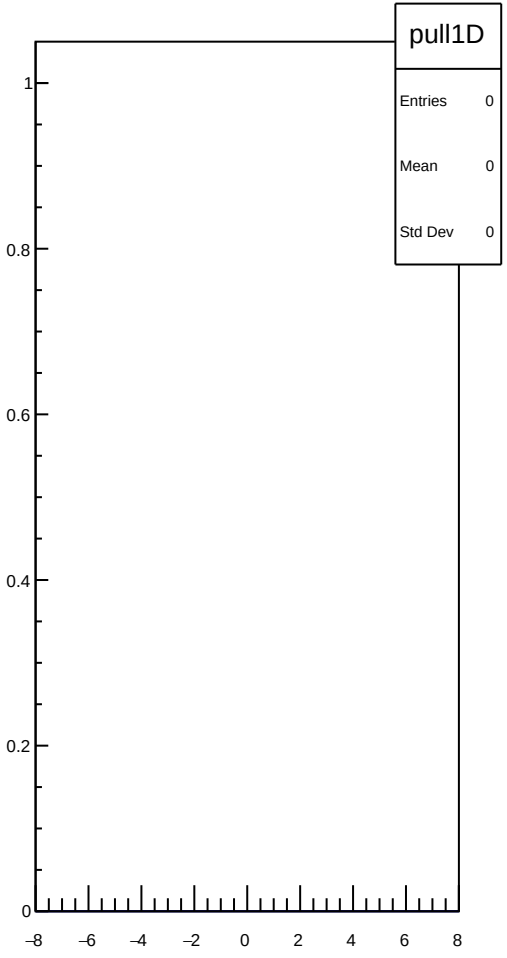
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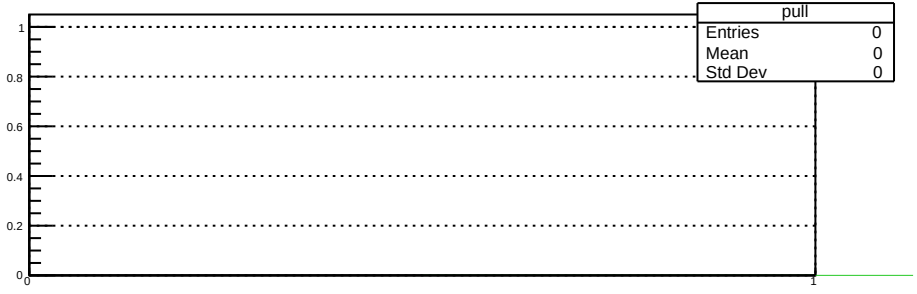
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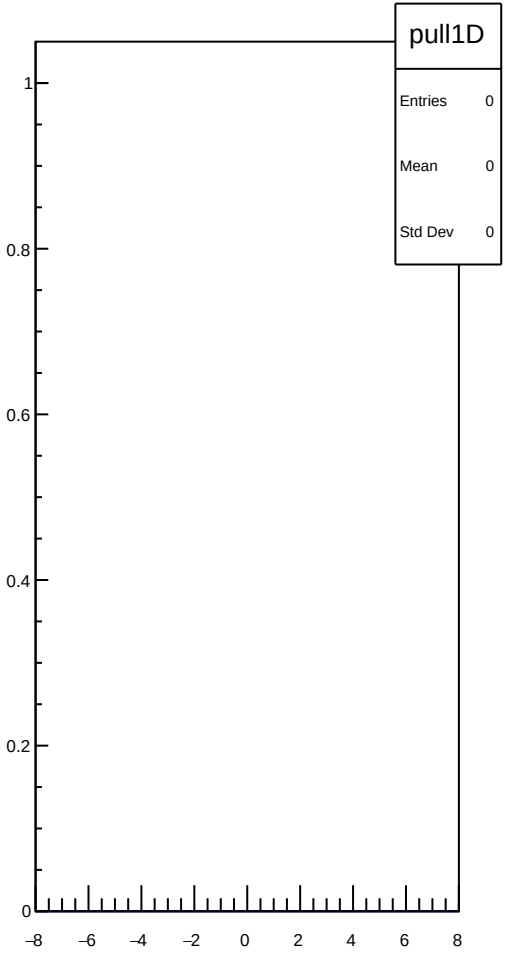
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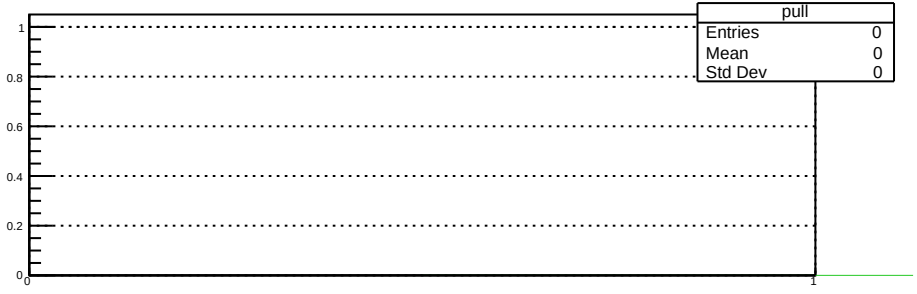
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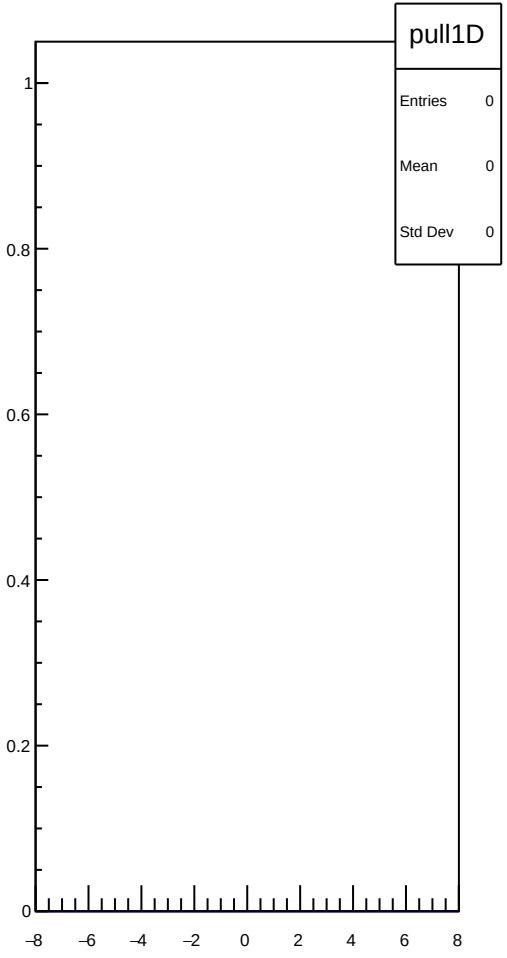
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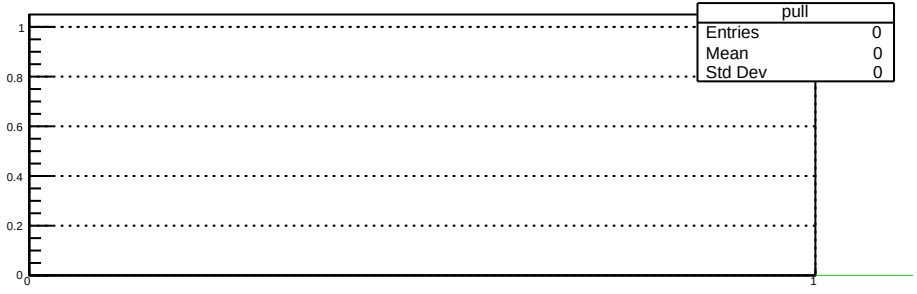
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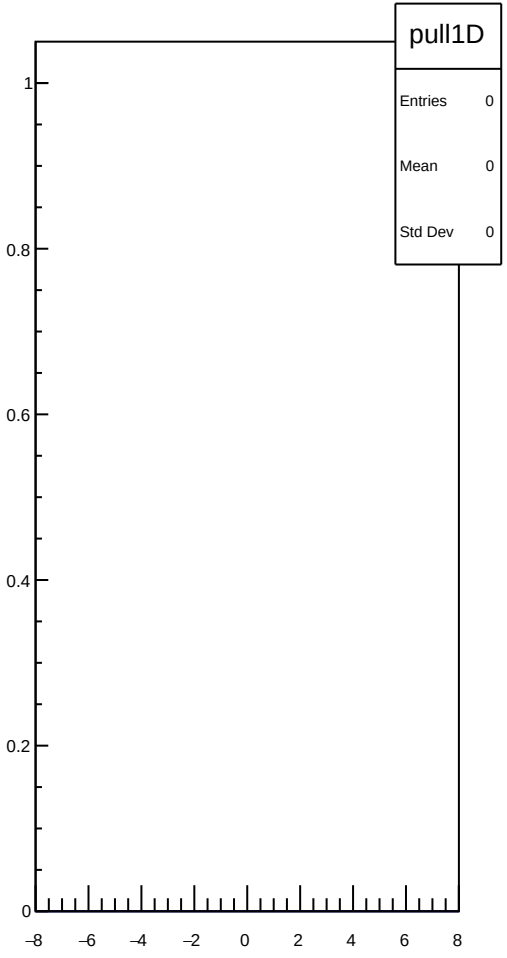
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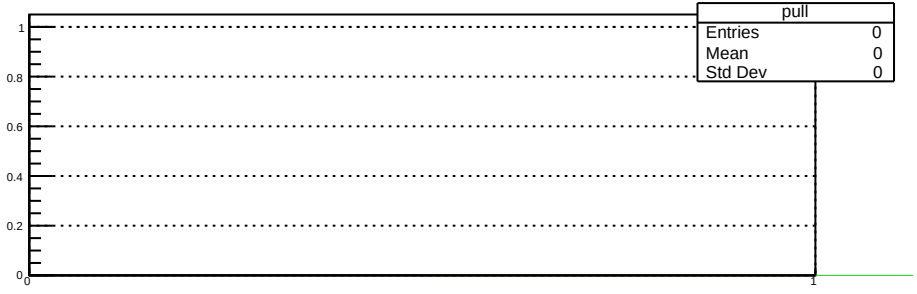
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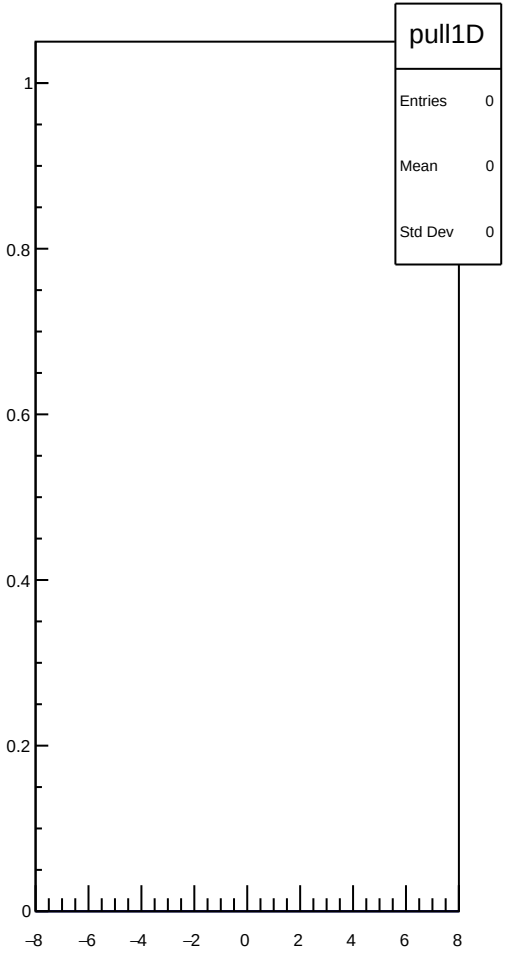
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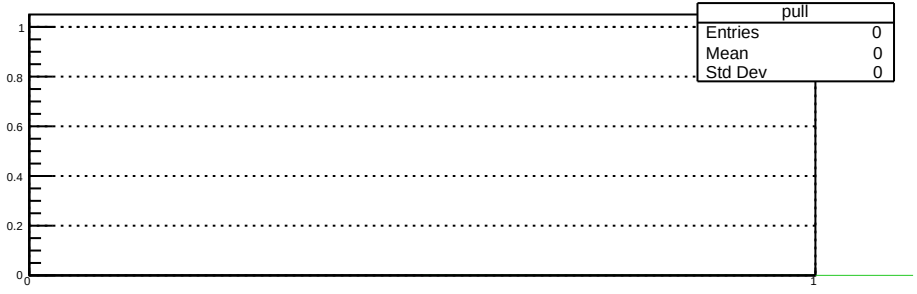
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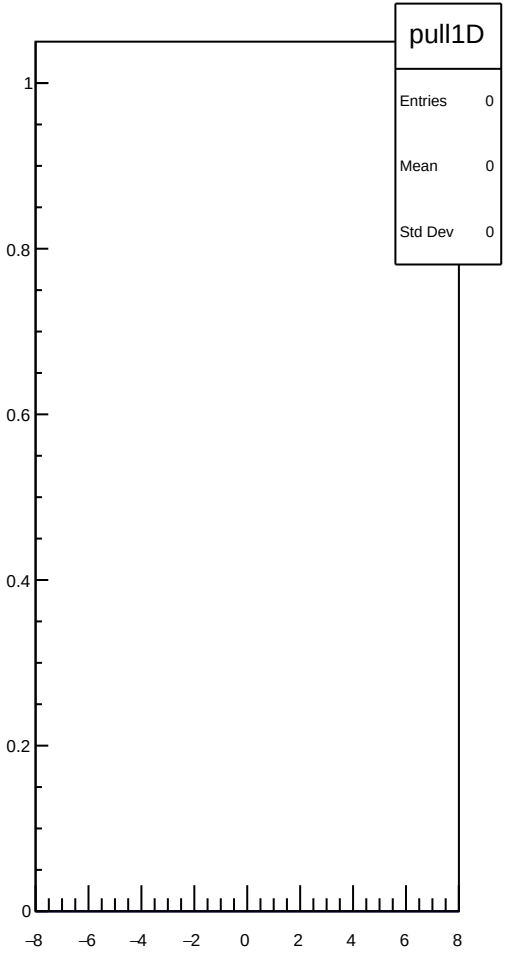
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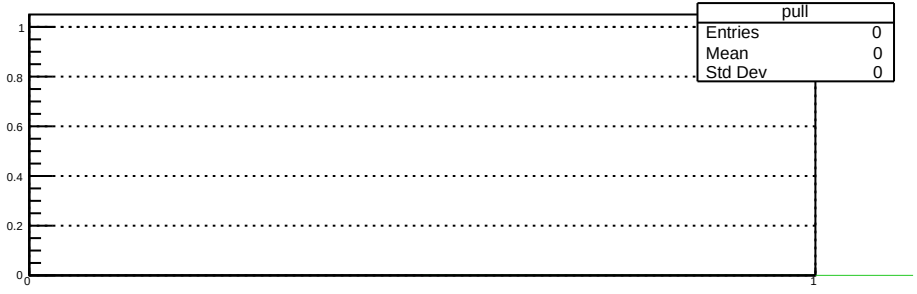
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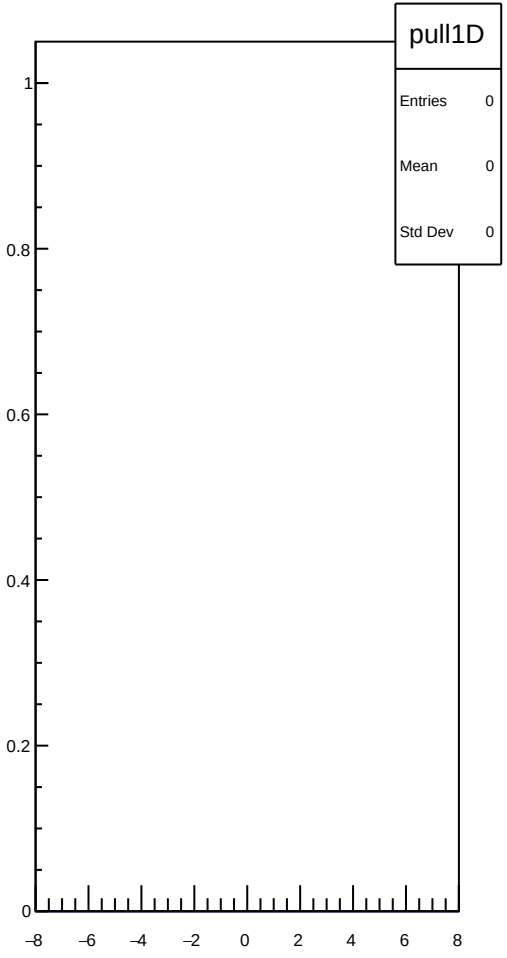
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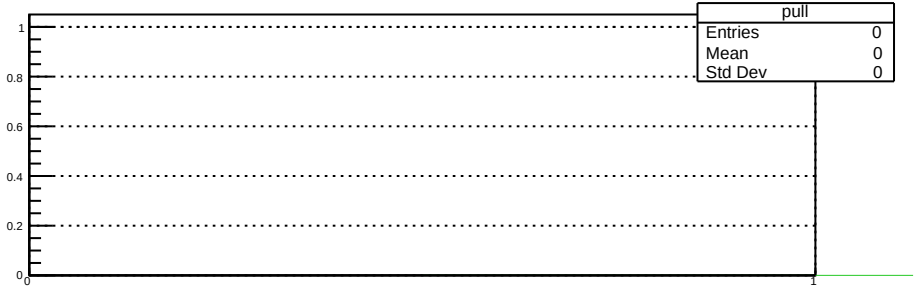
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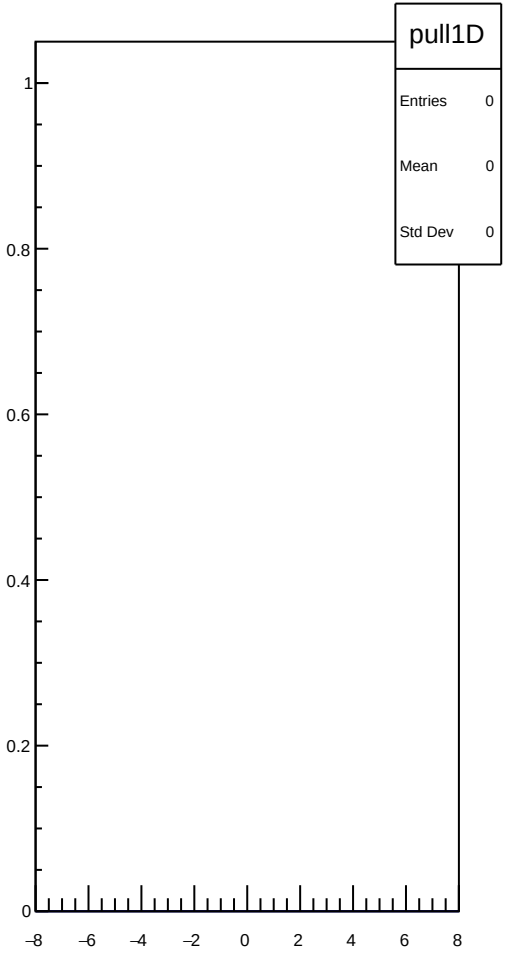
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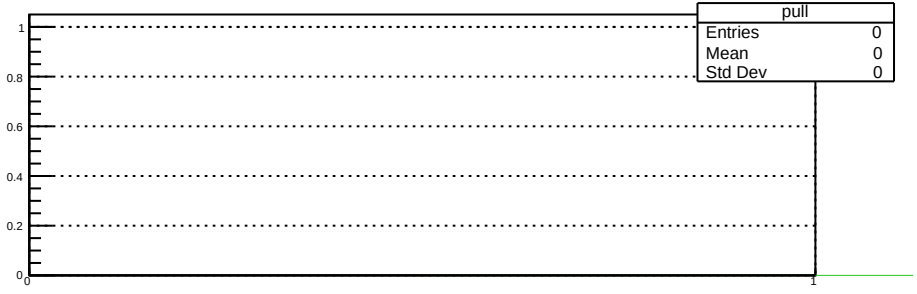
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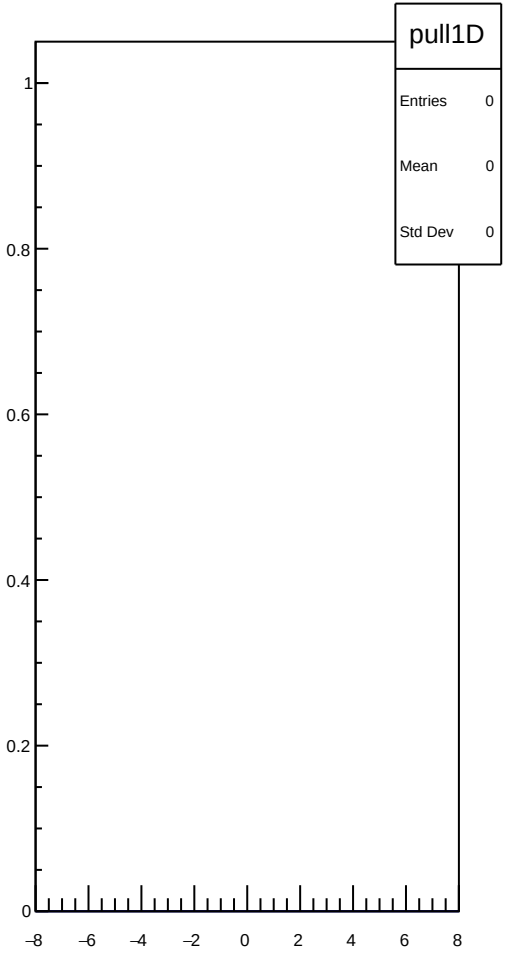
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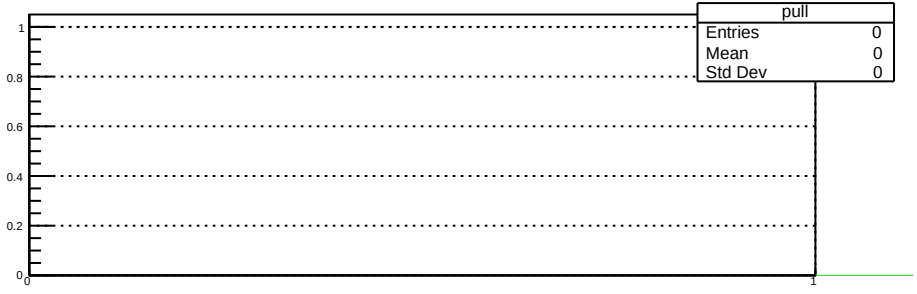
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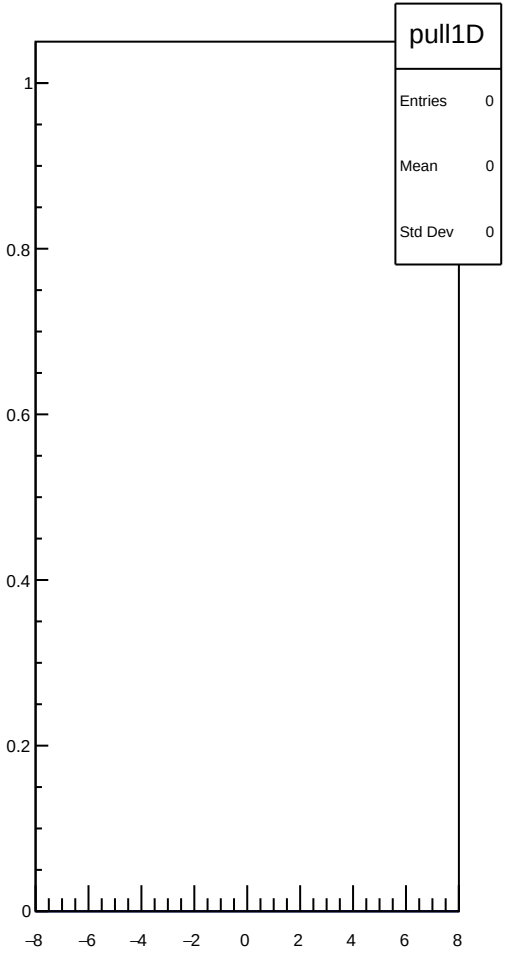
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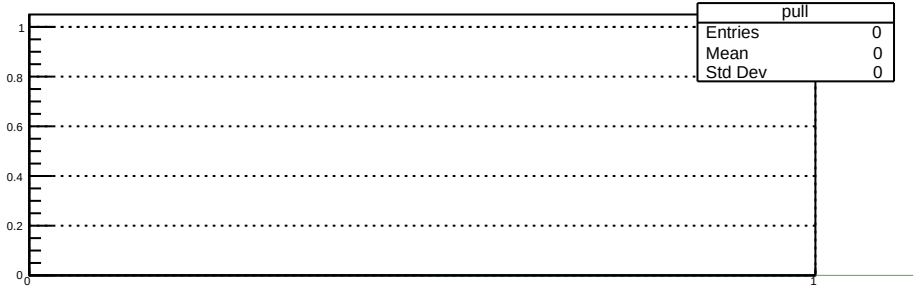
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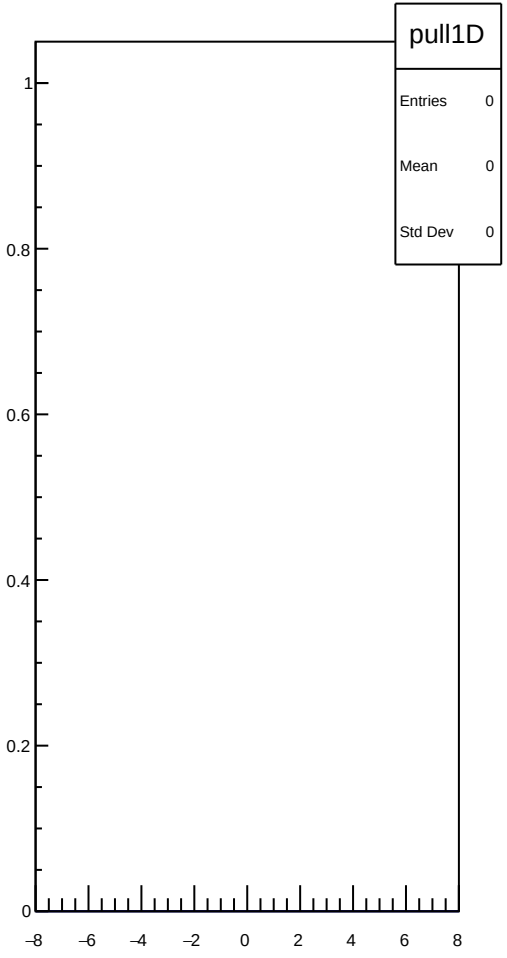
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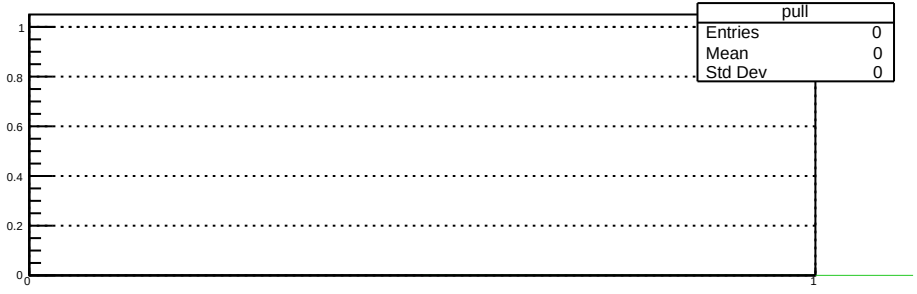
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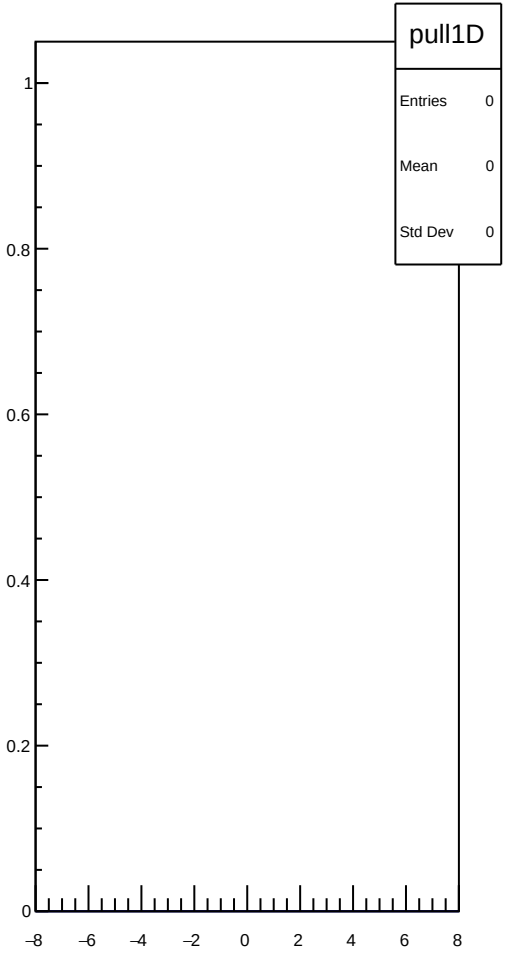
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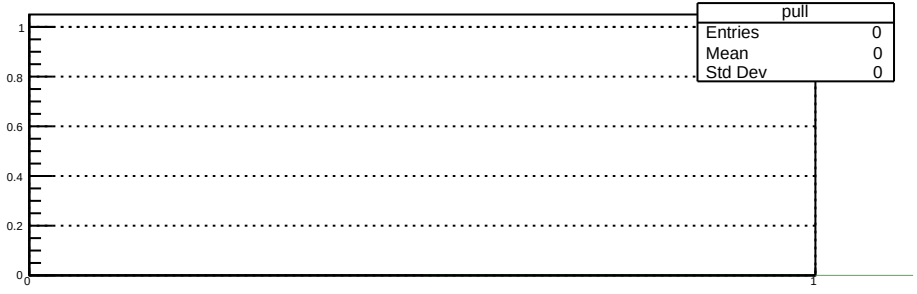
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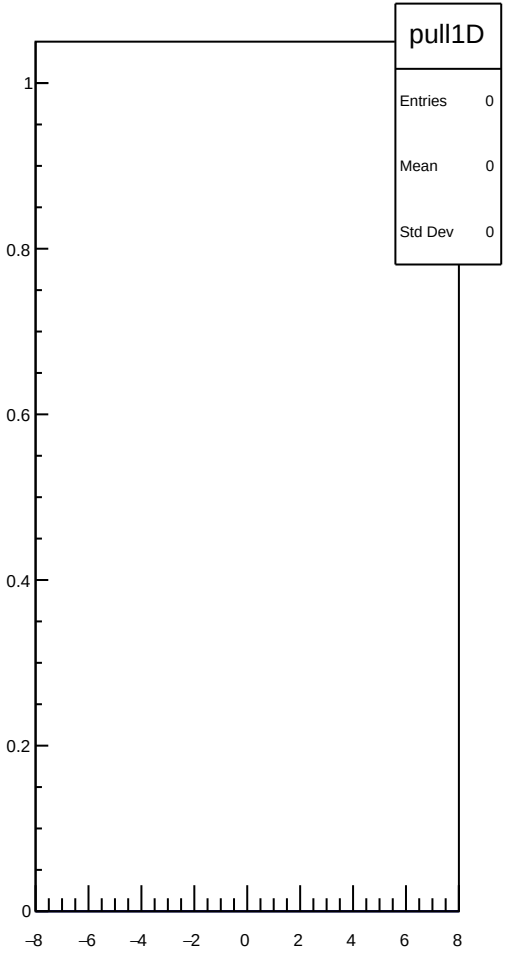
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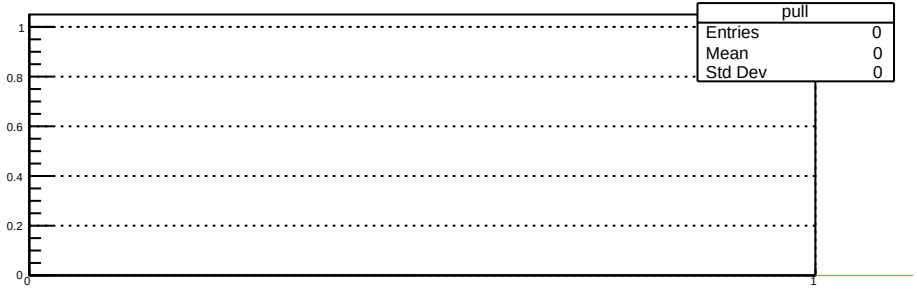
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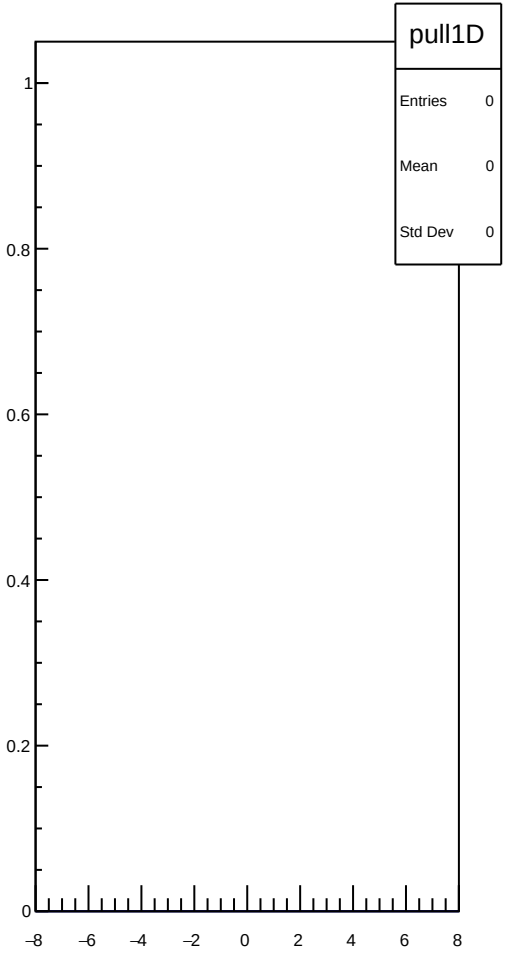
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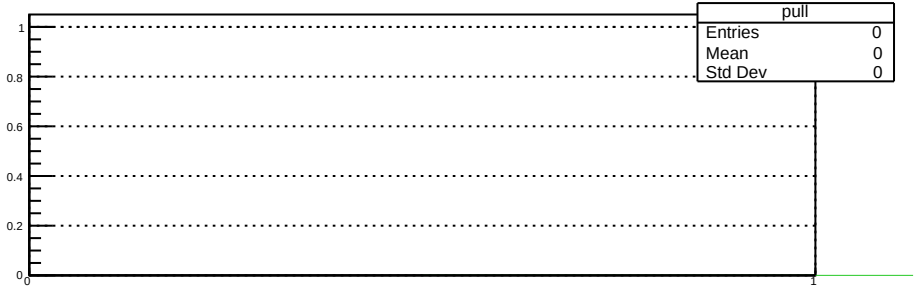
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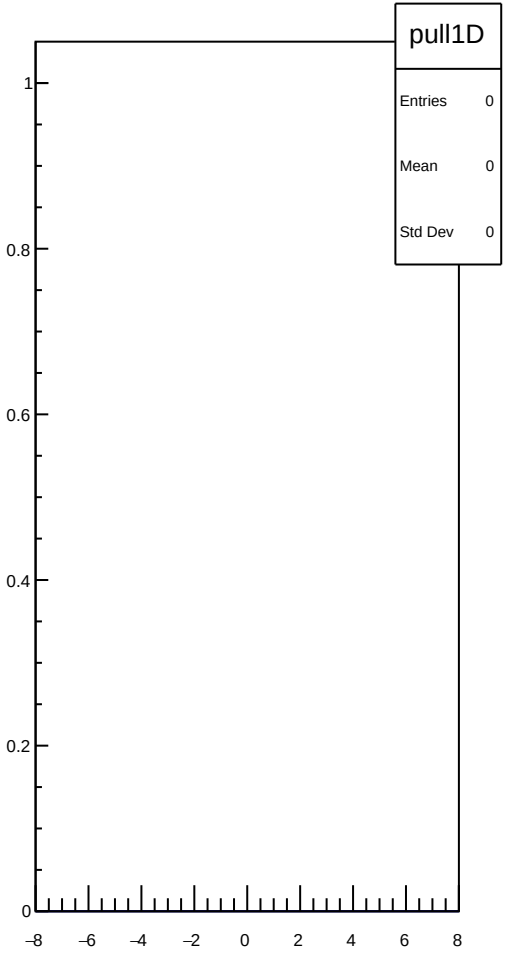
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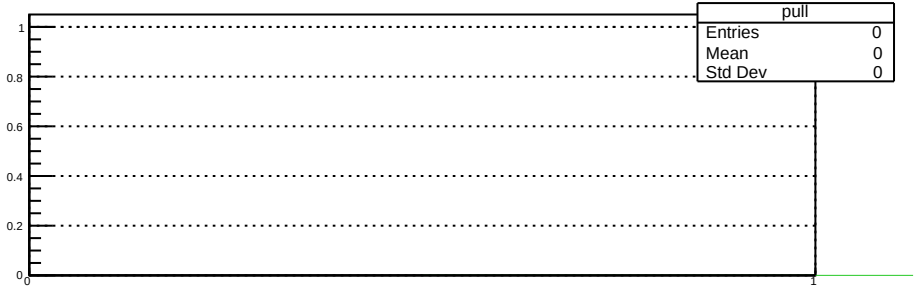
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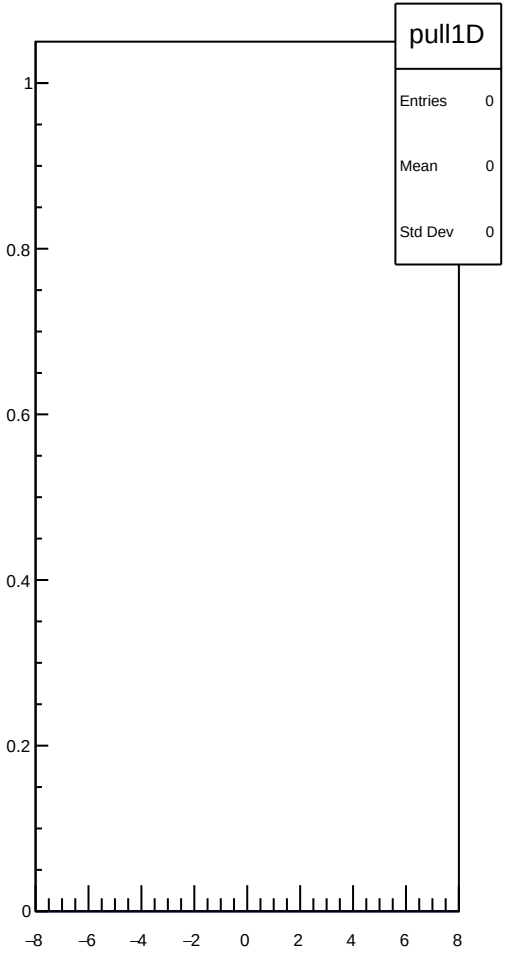
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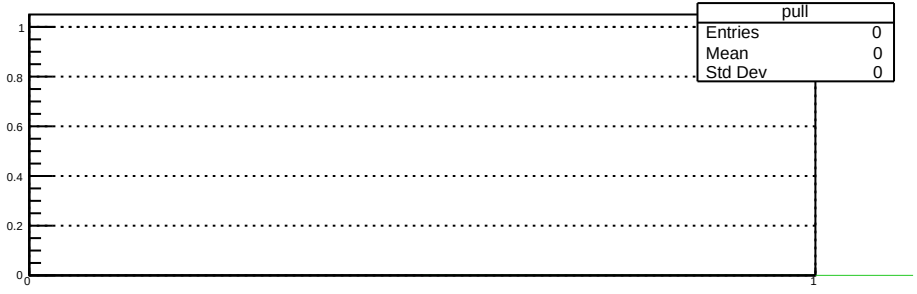
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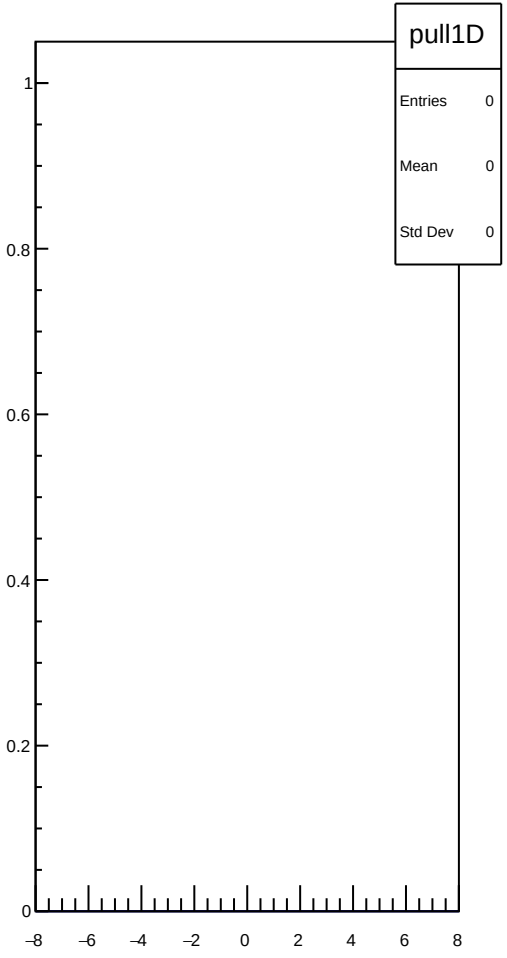
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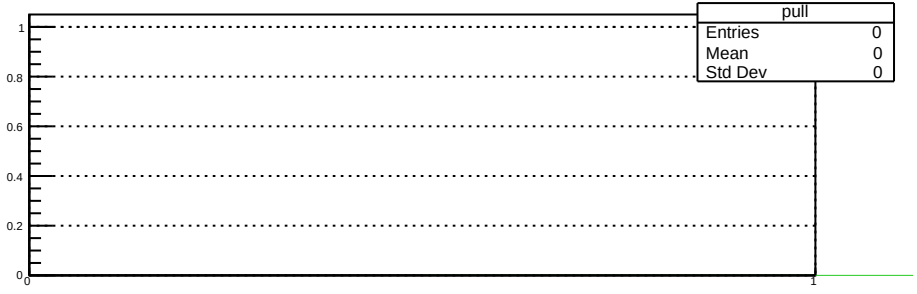
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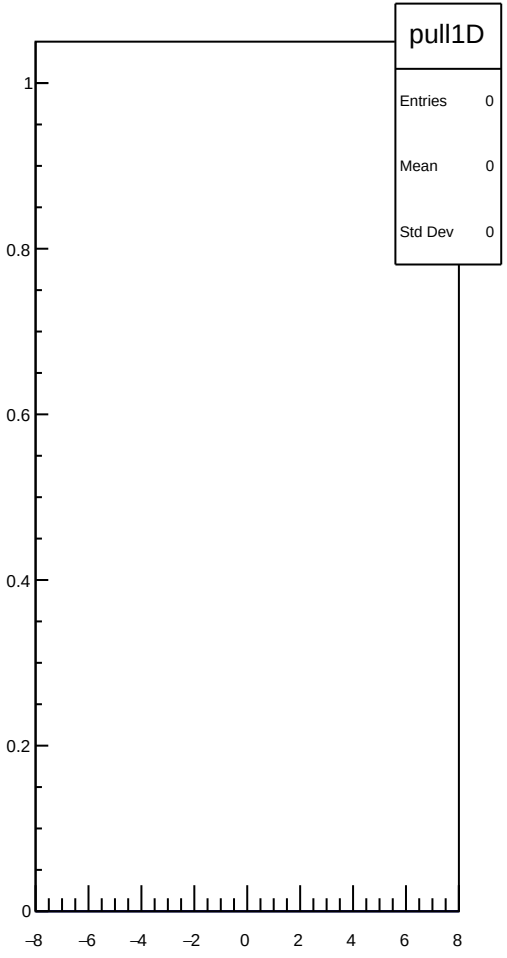
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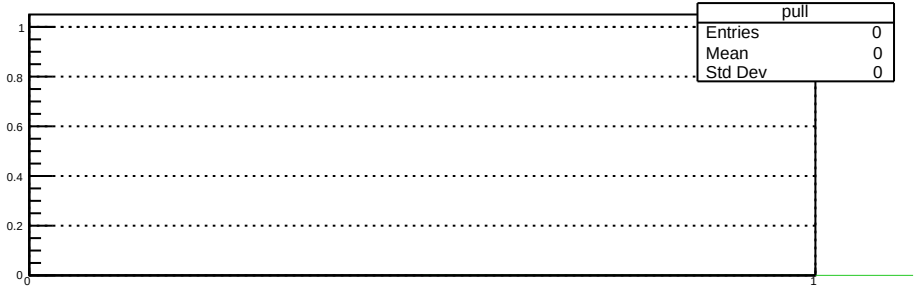
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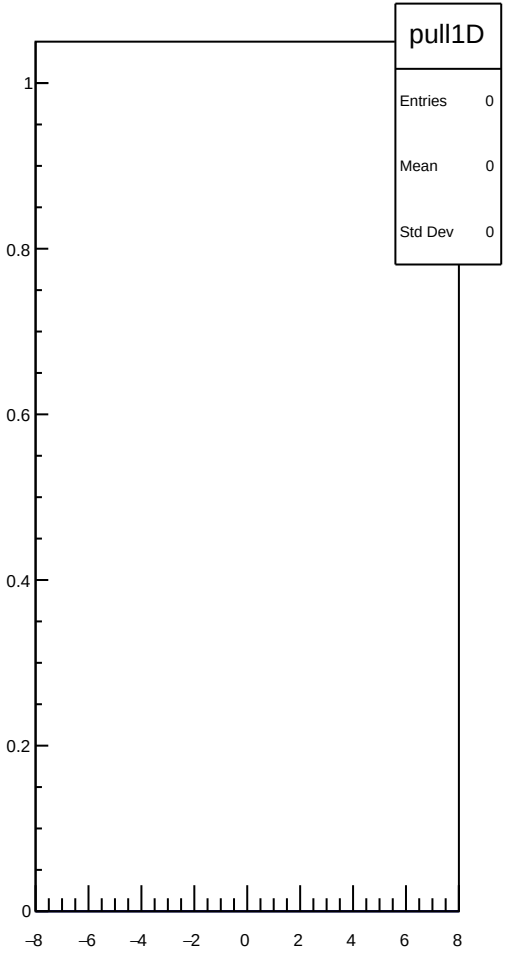
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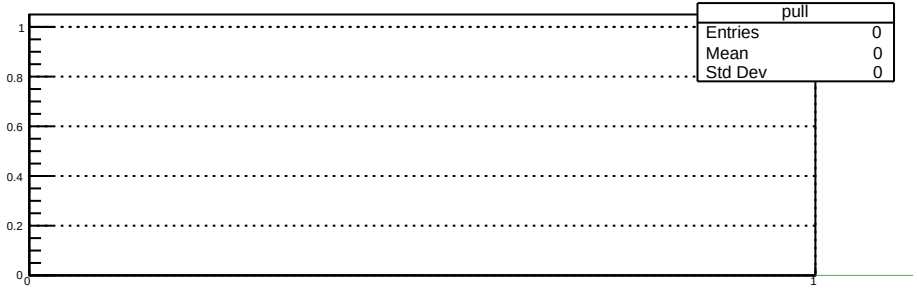
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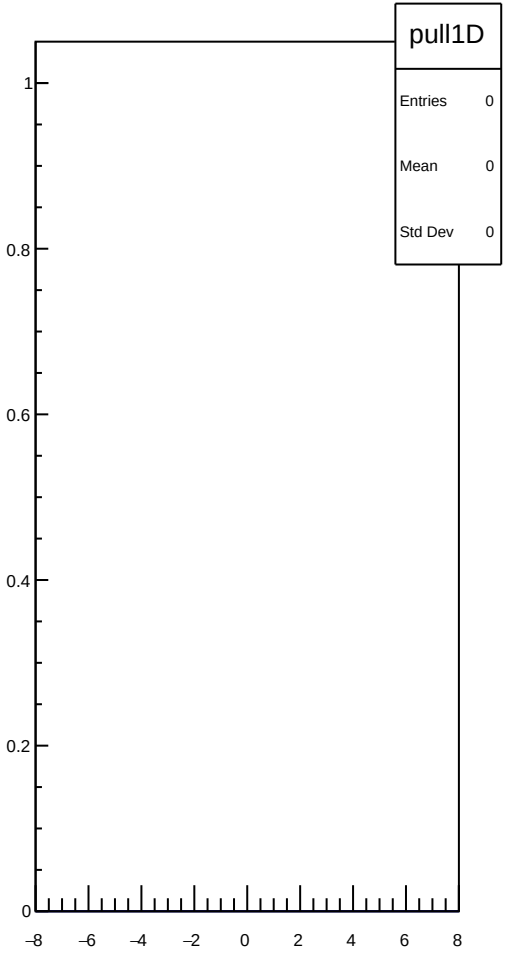
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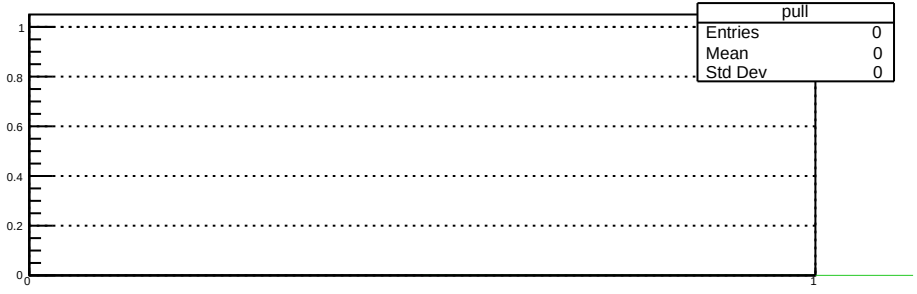
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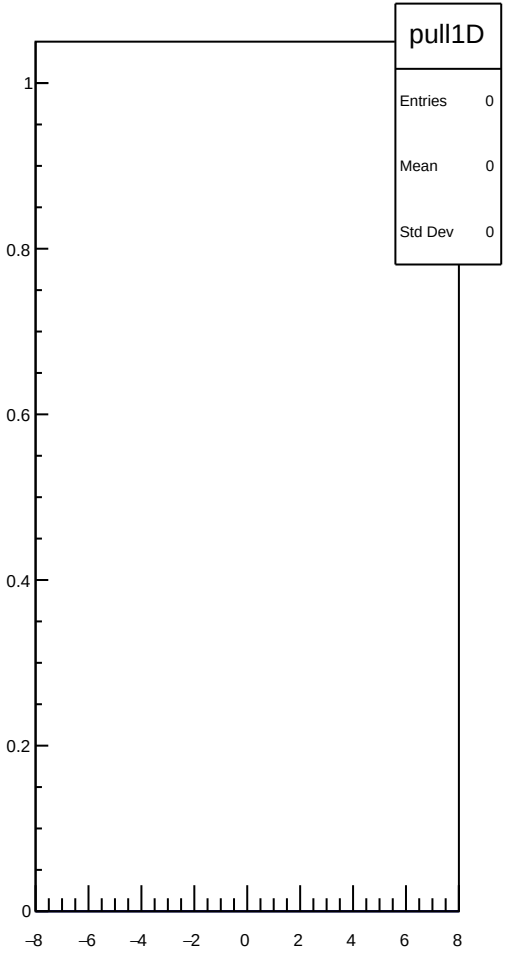
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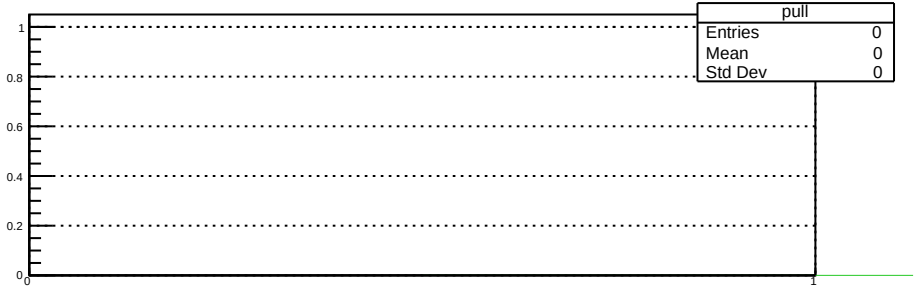
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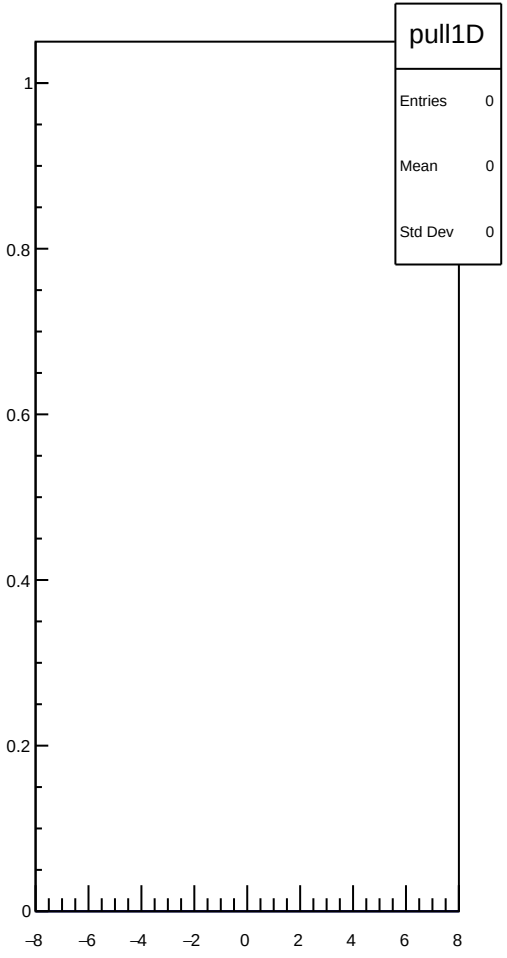
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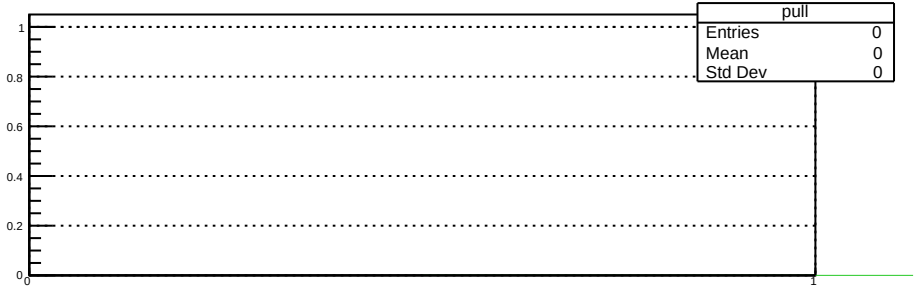
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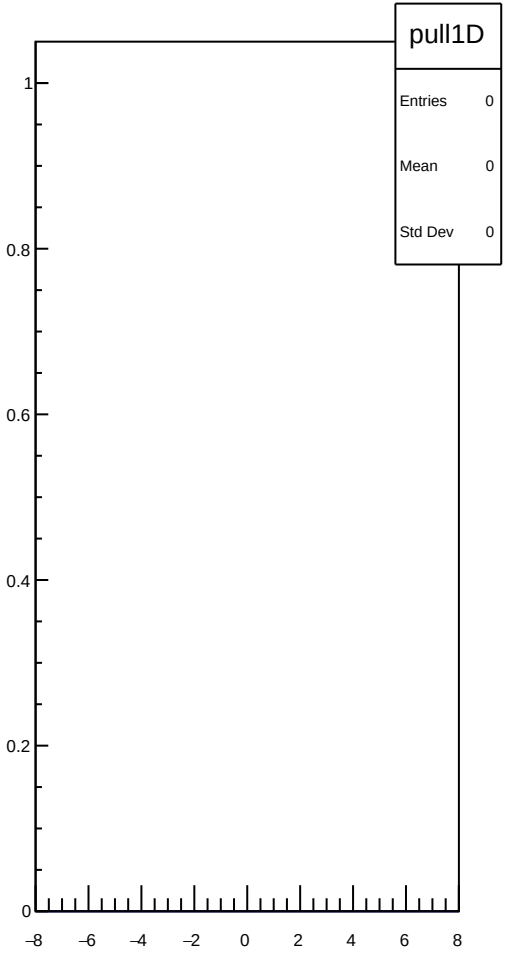
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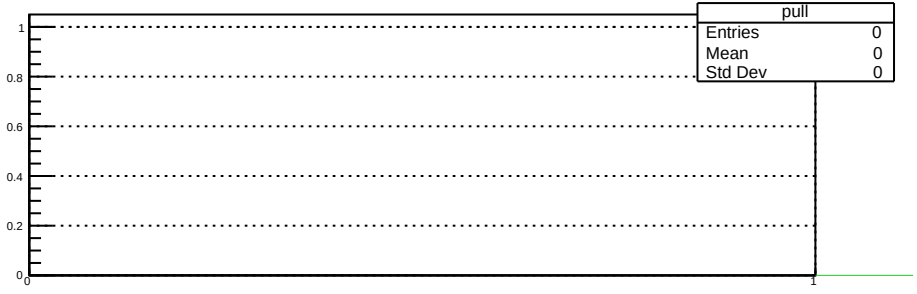
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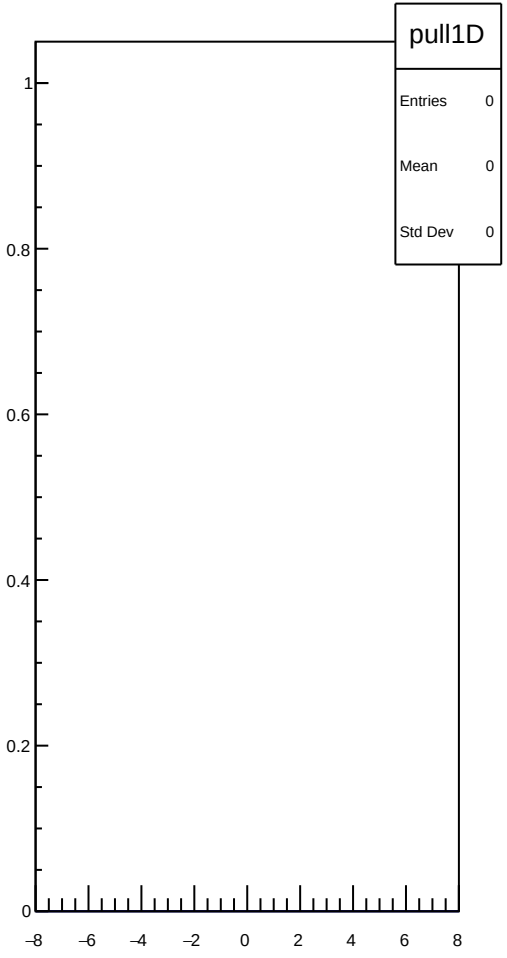
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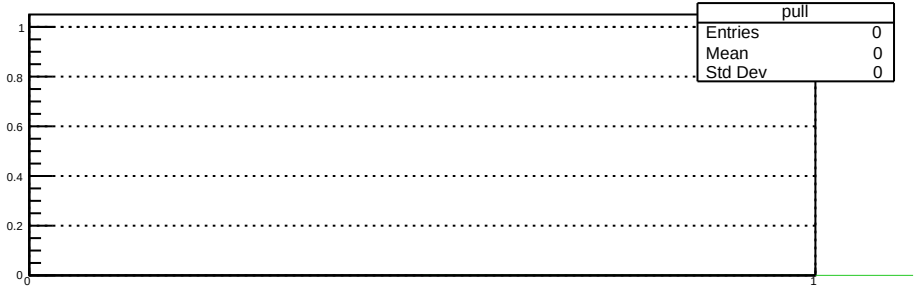
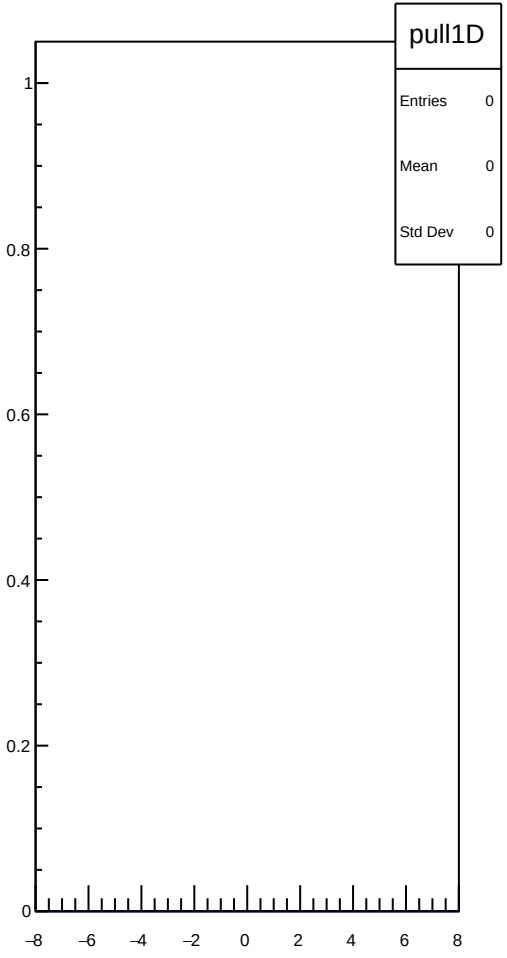
6
8


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
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0.6
0.4
0.2
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–4
–2
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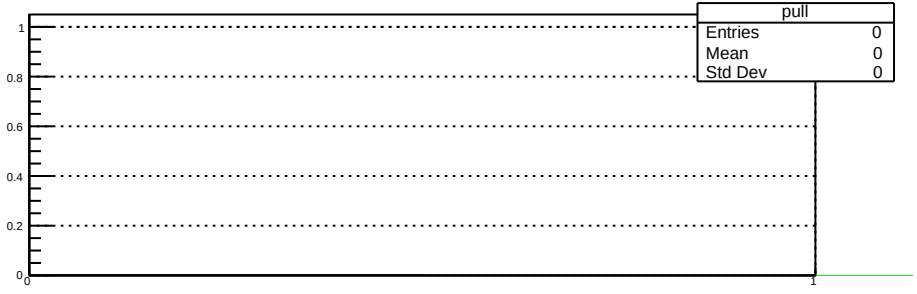
2
4
6
8


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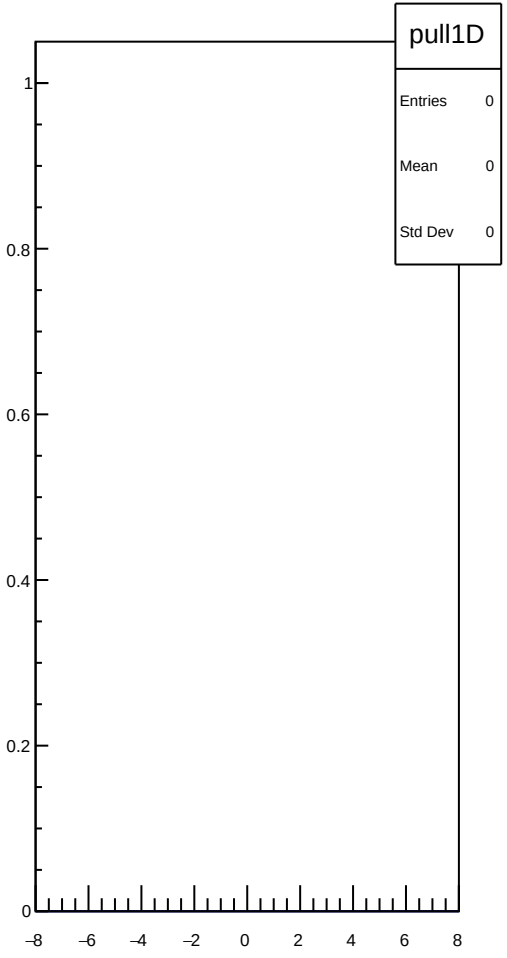
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
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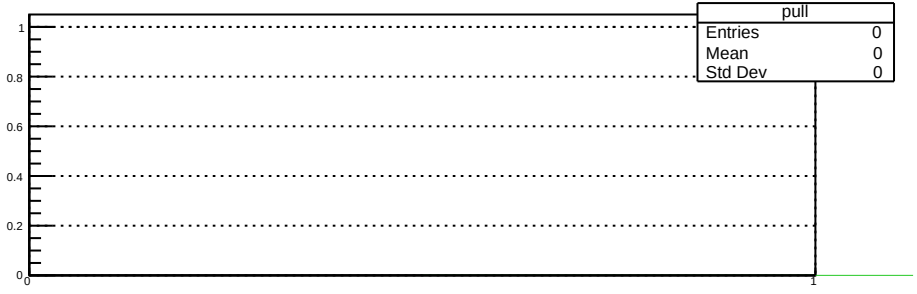
6
8


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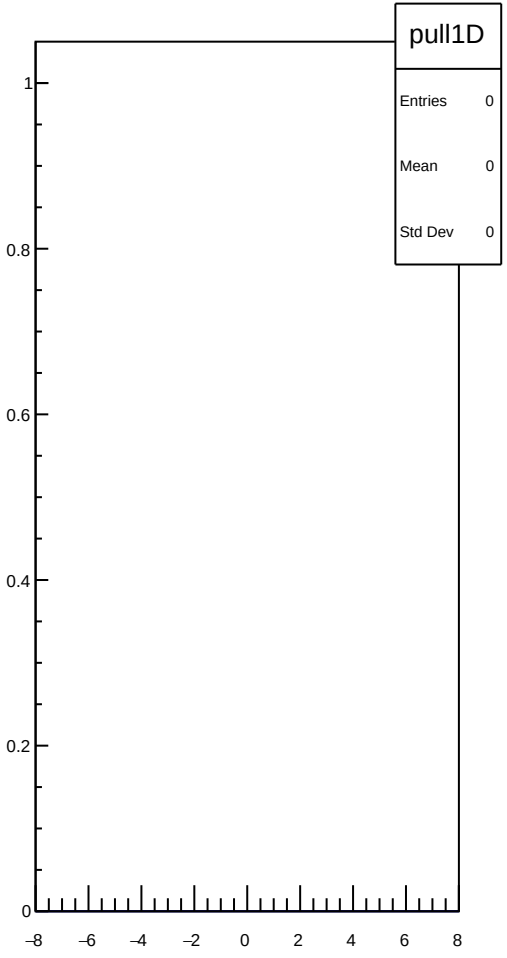
0.8
0.6
0.4
0.2
0
0
1


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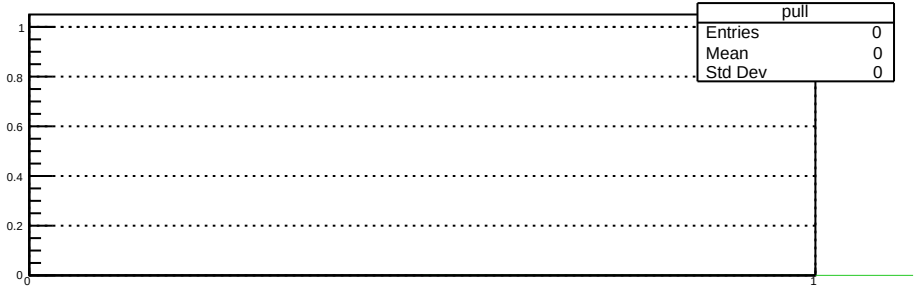
6
8


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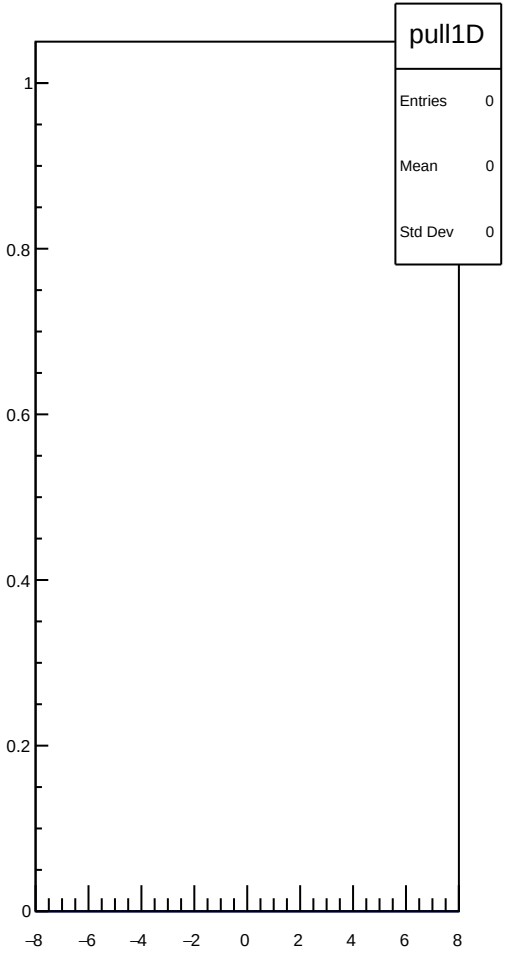
0
1


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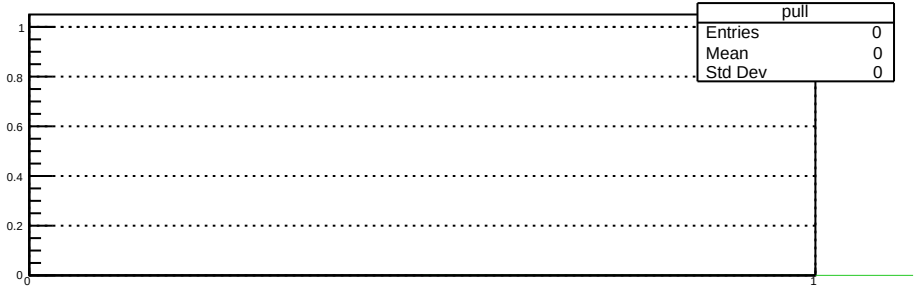
pull
Entries 0
Mean 0
Std Dev 0
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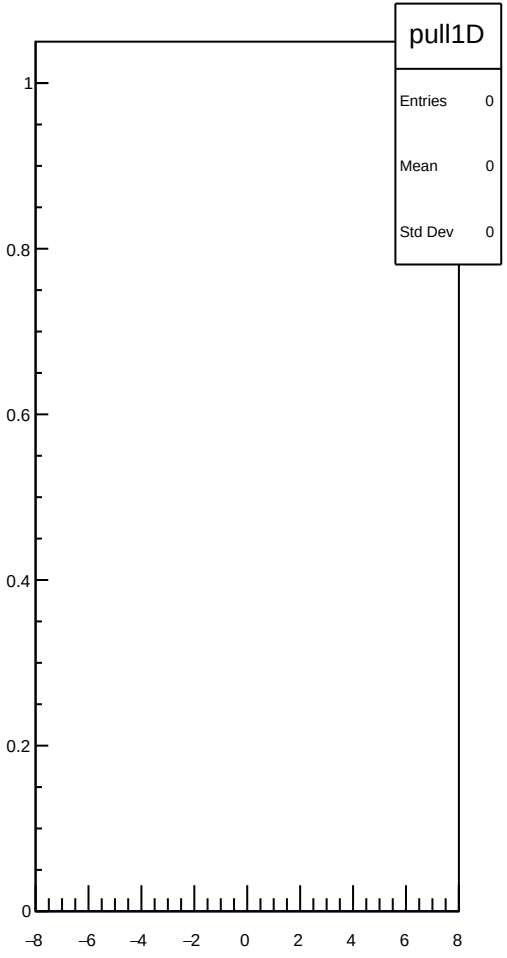
0.6
0.4
0.2
0
0
1


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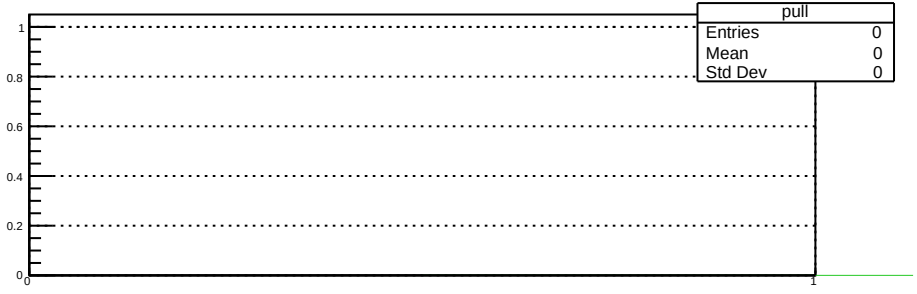
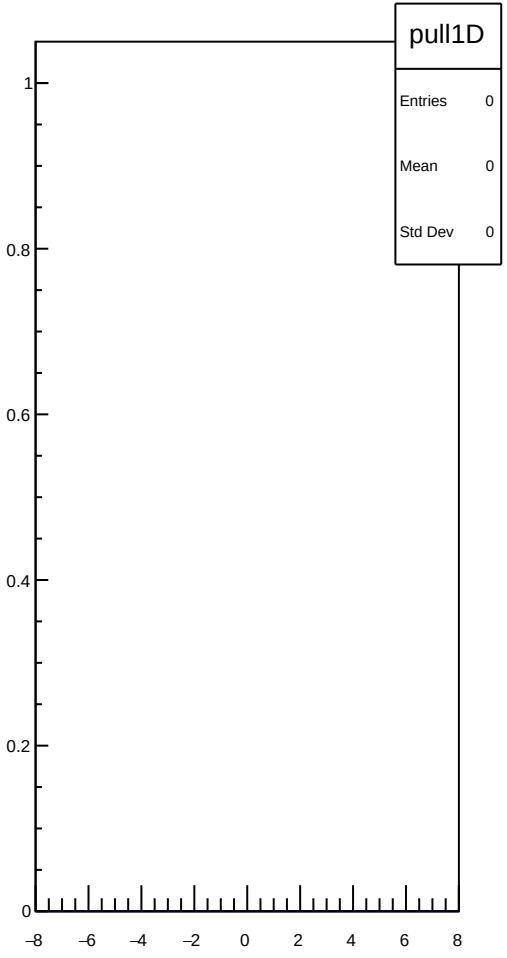
2
4
6
8


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


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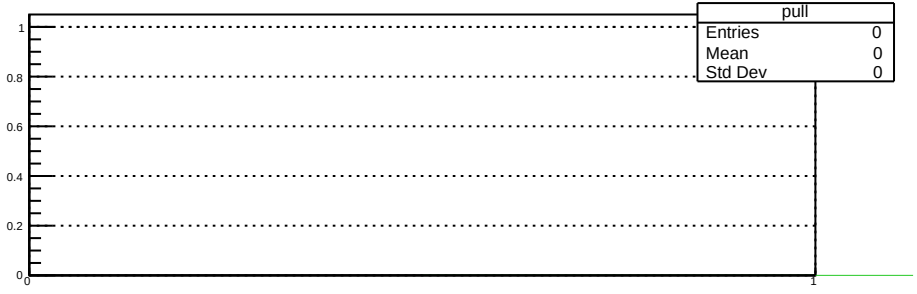
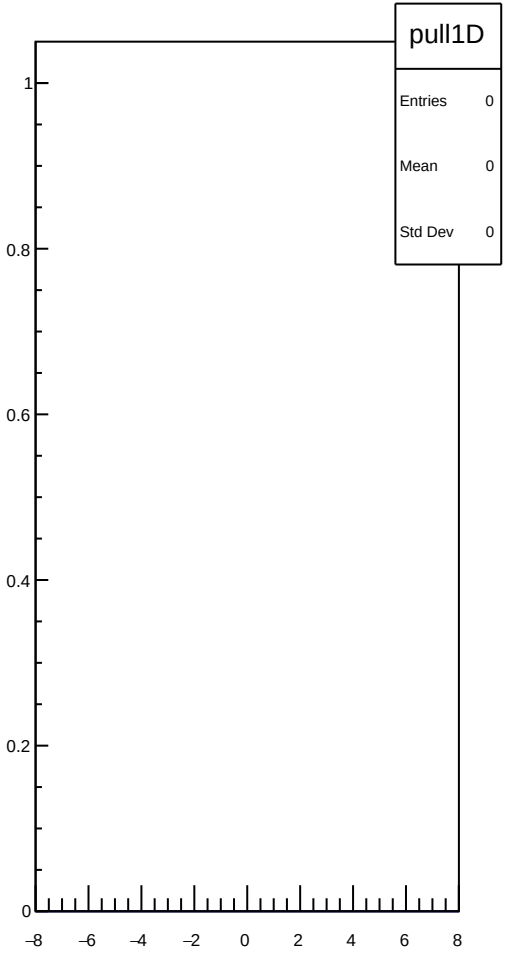
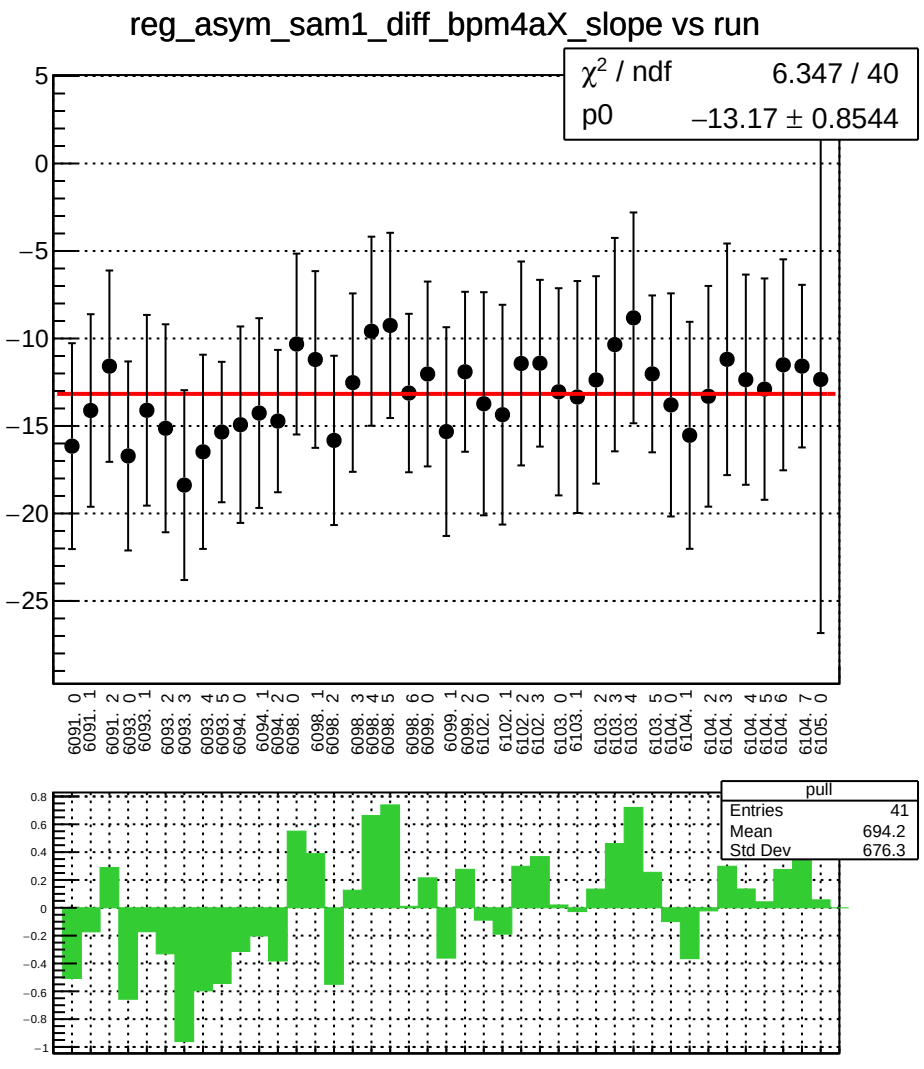
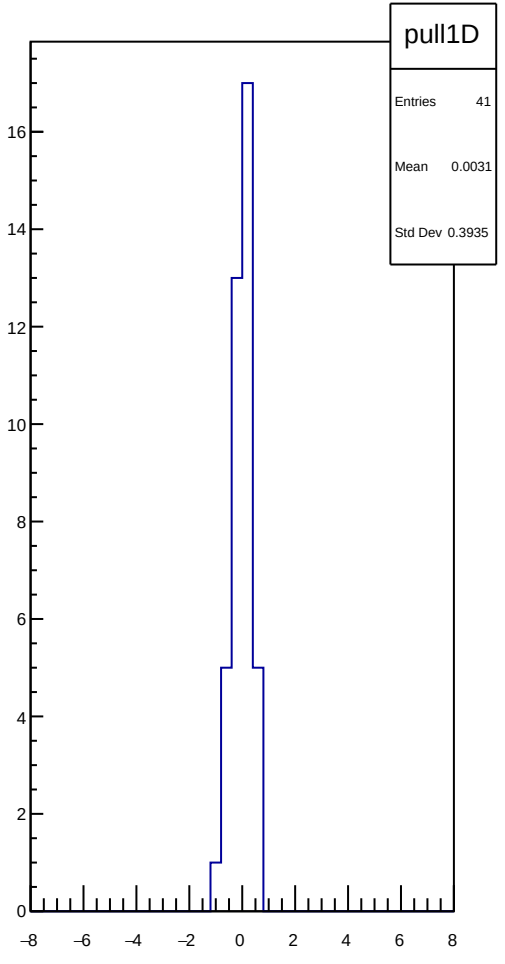
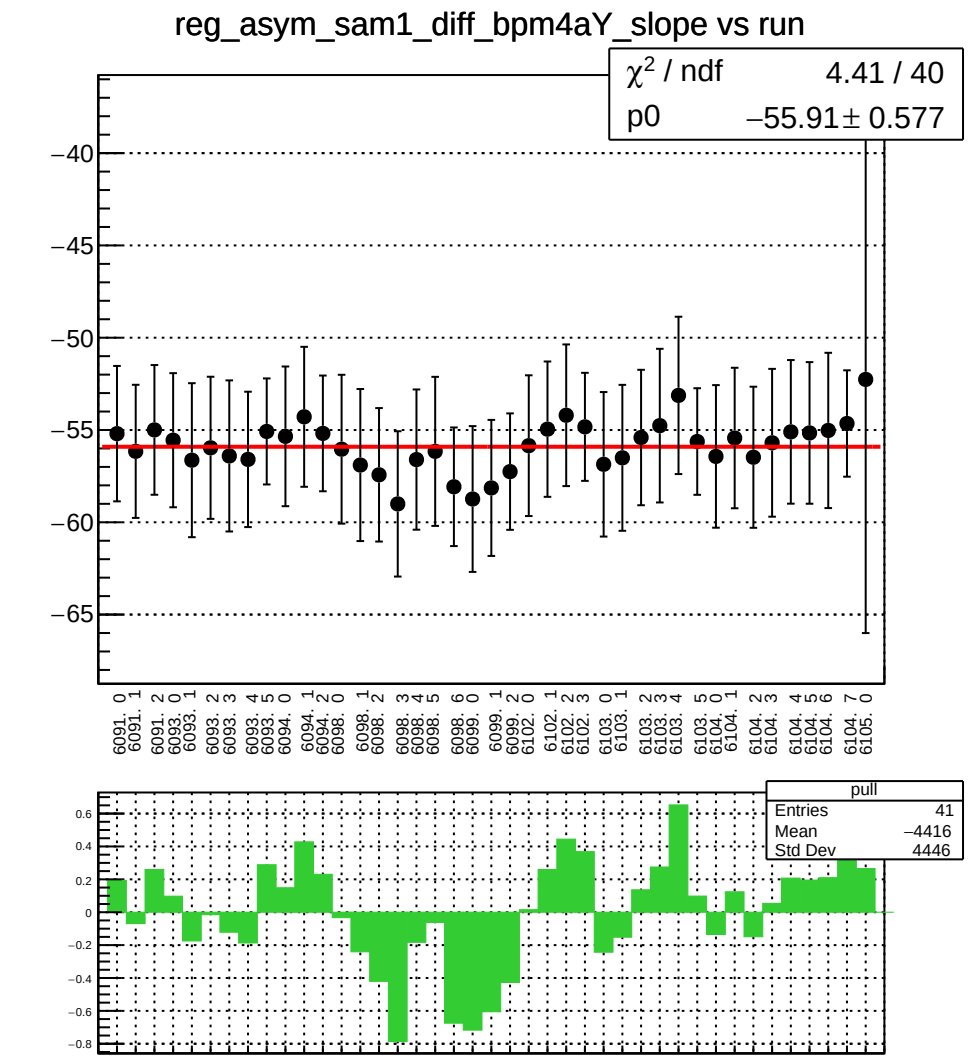
2
4
6
8

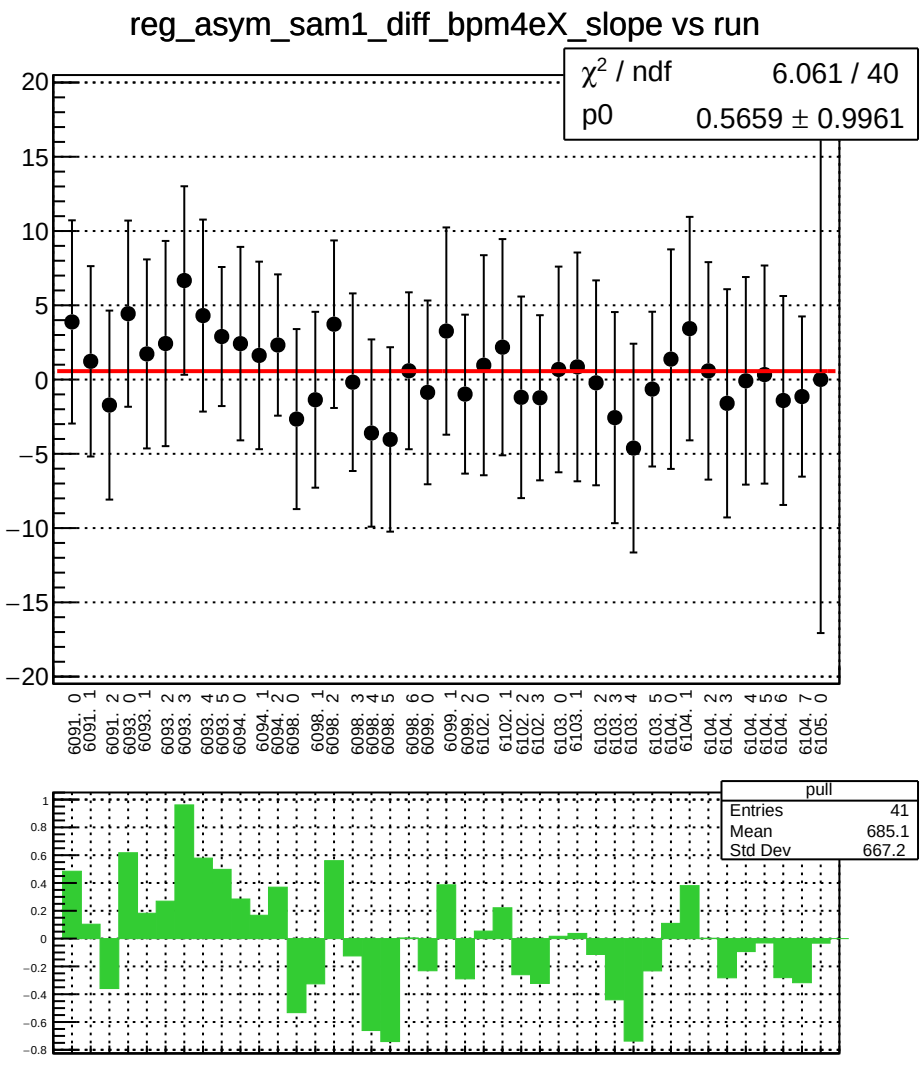

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

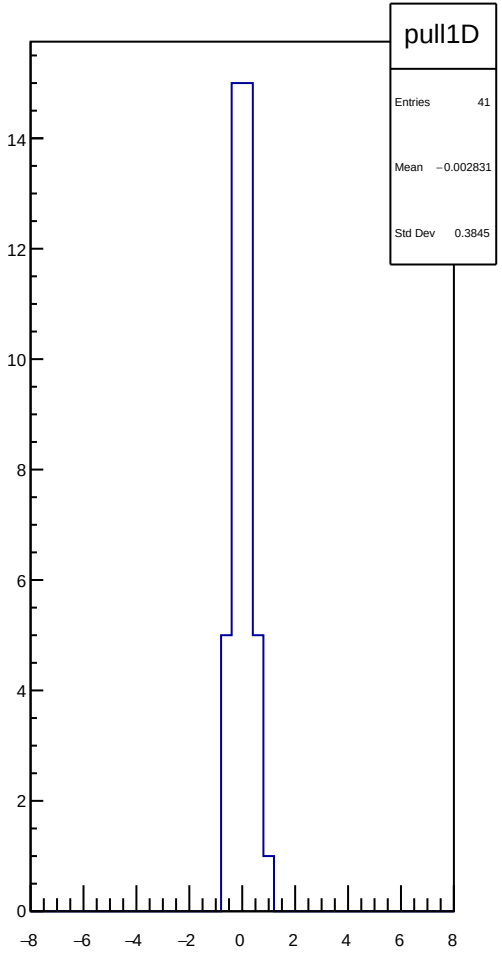

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

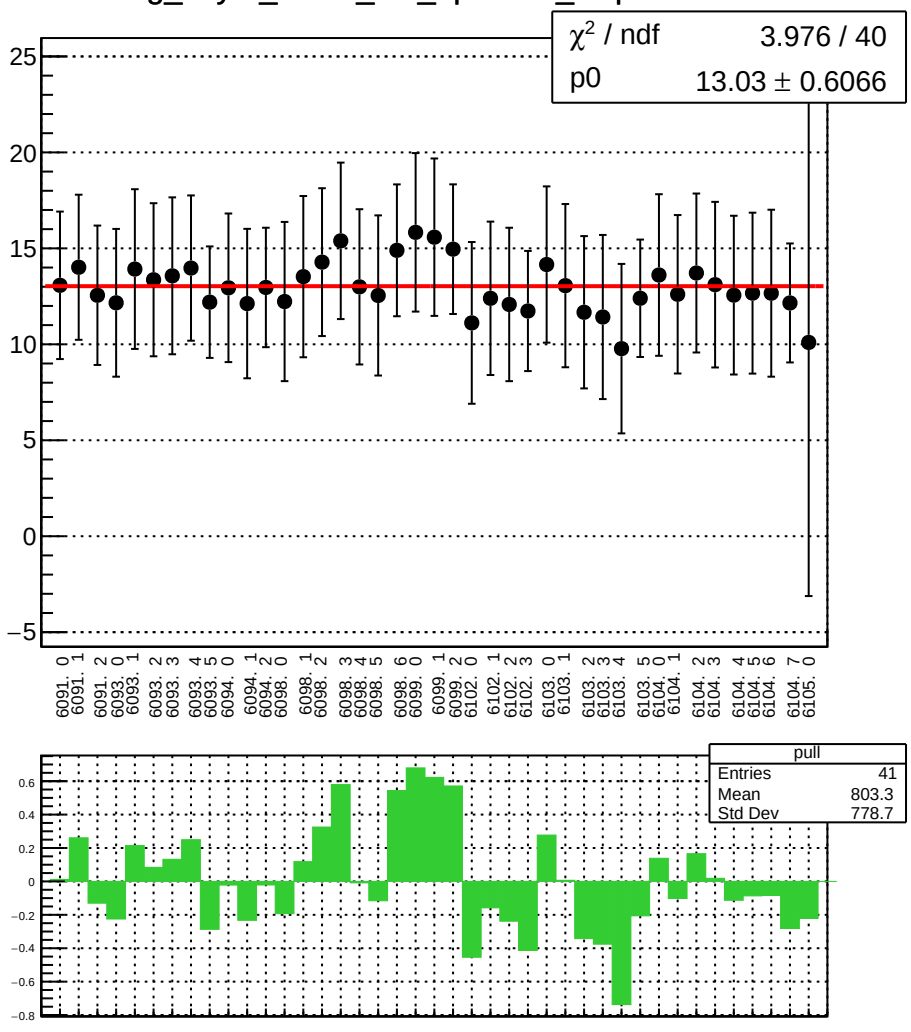

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 6.347 / 40
p0 −13.17 ± 0.8544
pull
Entries 41
Mean 694.2
Std Dev 676.3

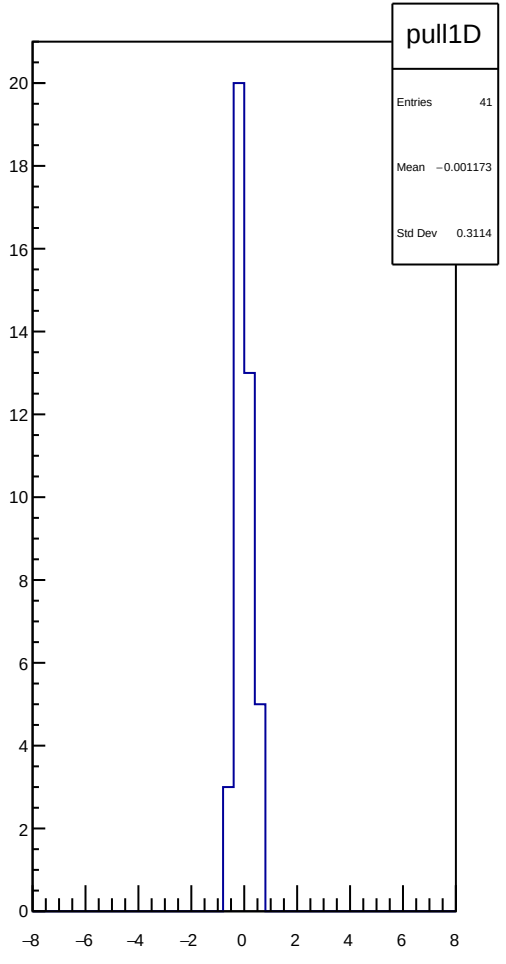

pull1D
Entries 41
Mean 0.0031
Std Dev 0.3935

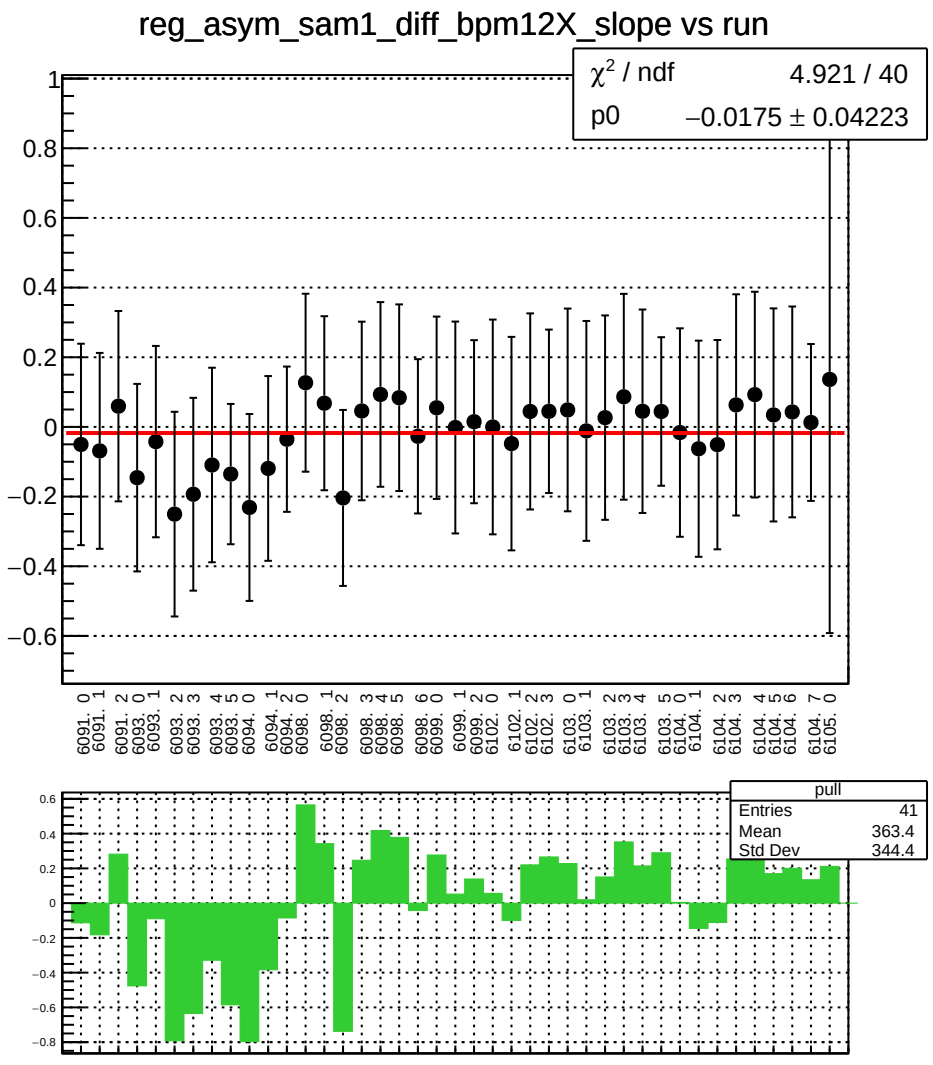

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.41 / 40
p0 −55.91± 0.577
−40
−45
−50
−55
−60
−65
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −4416
Std Dev 4446
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.0001846
Std Dev 0.328
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

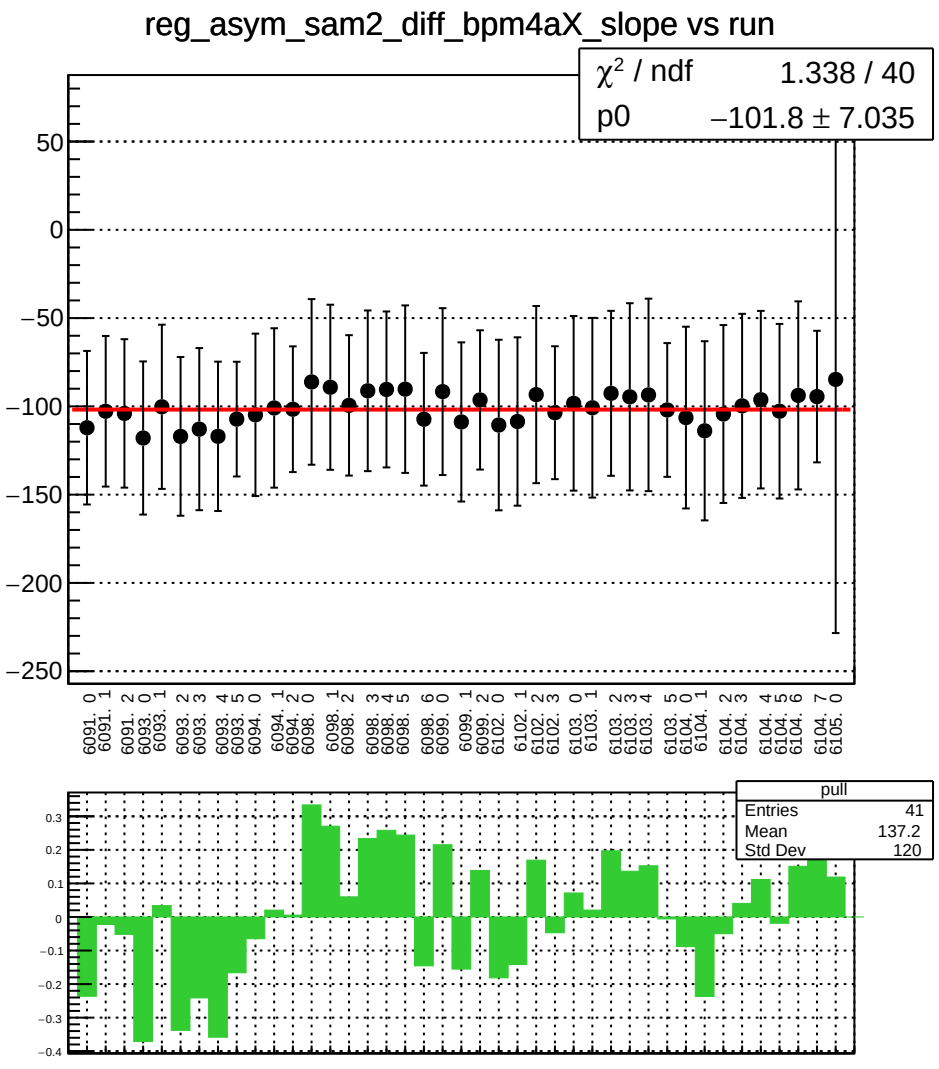

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.061 / 40
p0 0.5659 ± 0.9961
pull
Entries 41
Mean 685.1
Std Dev 667.2


pull1D
Entries 41
Mean −0.002831
Std Dev 0.3845


reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 3.976 / 40
p0 13.03 ± 0.6066
pull
Entries 41
Mean 803.3
Std Dev 778.7


pull1D
Entries 41
Mean −0.001173
Std Dev 0.3114


reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 4.921 / 40
p0 −0.0175 ± 0.04223
pull
Entries 41
Mean 363.4
Std Dev 344.4
pull1D
Entries 41
Mean 0.005828
Std Dev 0.3464


reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 1.338 / 40
p0 −101.8 ± 7.035
50
0
−50
−100
−150
−200
−250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 137.2
Std Dev 120
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 41
Mean 0.006344
Std Dev 0.1805
22
20
18
16
14
12
10
8
6
4
2
0
−8
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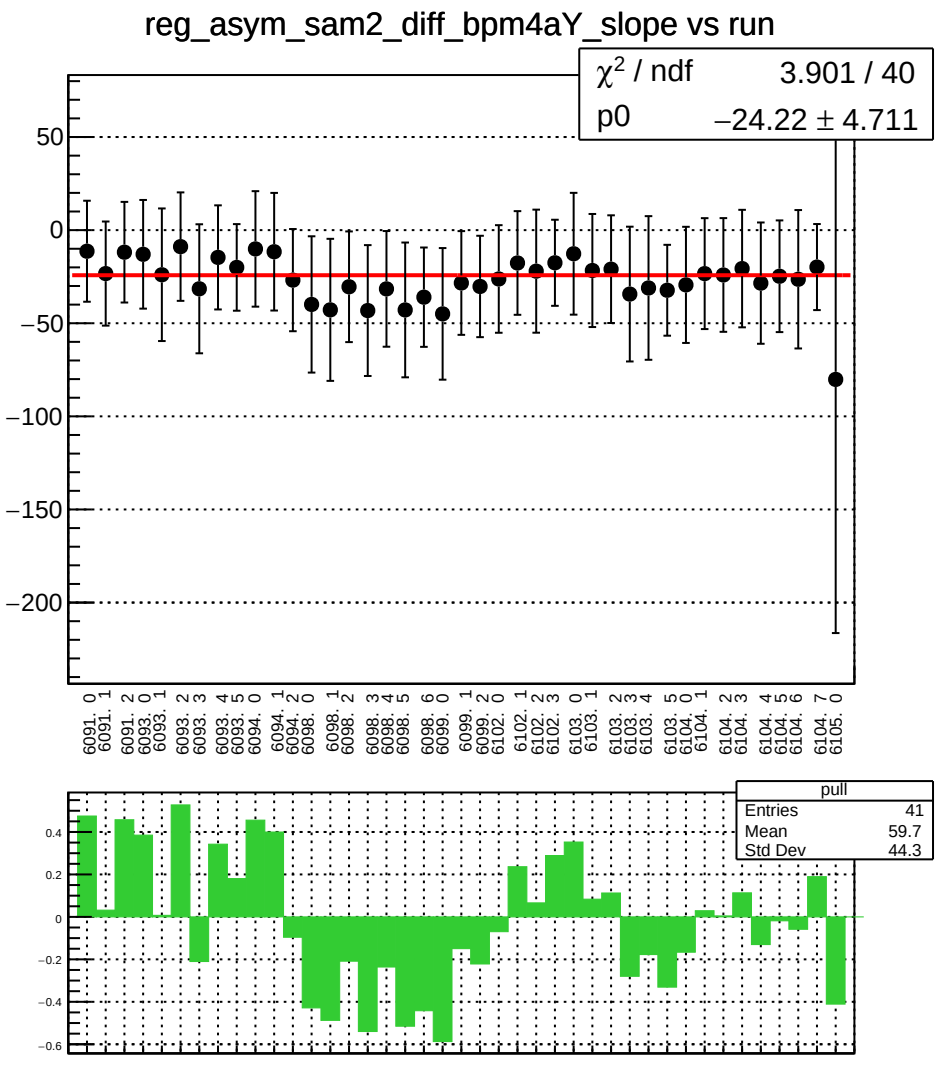
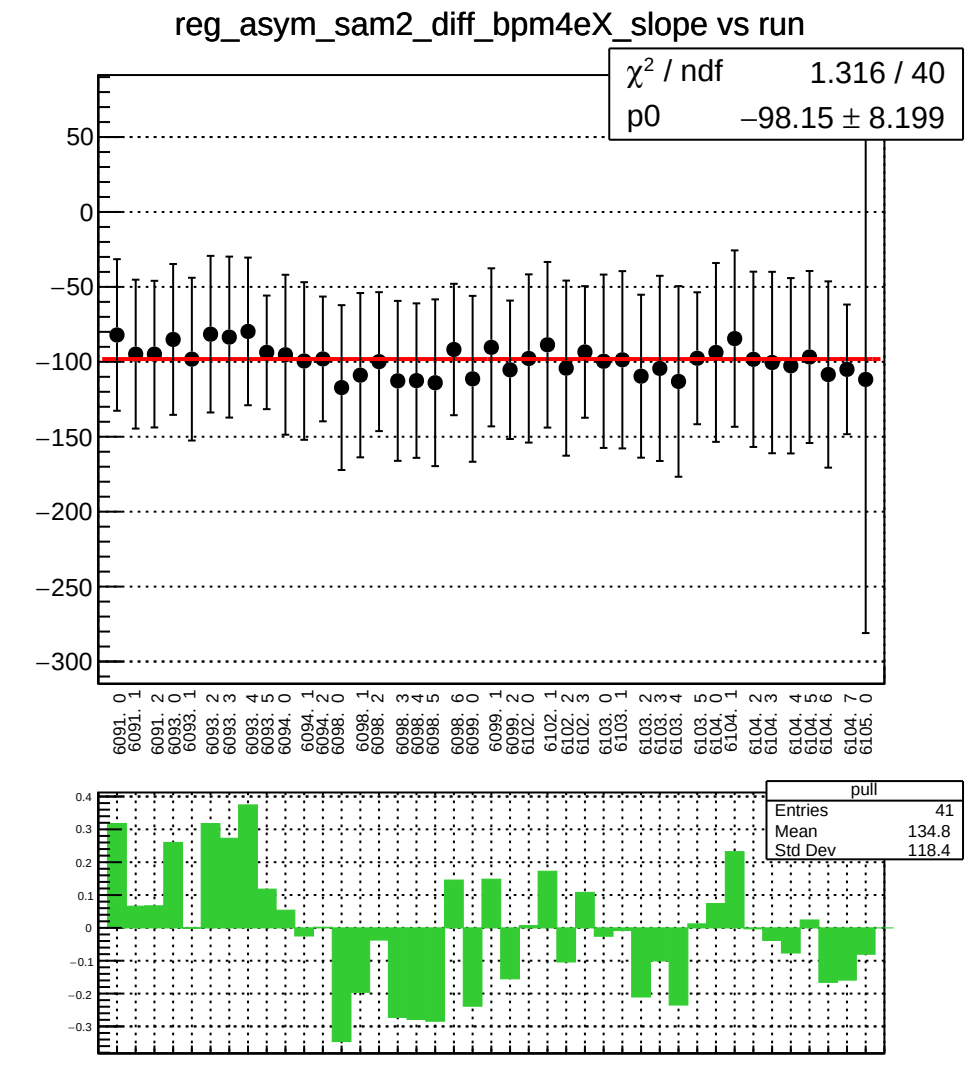
−4
−2
0
2
4
6
8


reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 3.901 / 40
p0 −24.22 ± 4.711
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 59.7
Std Dev 44.3
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.025
Std Dev 0.3074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.316 / 40
p0 −98.15 ± 8.199
50
0
−50
−100
−150
−200
−250
−300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 134.8
Std Dev 118.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean −0.006499
Std Dev 0.1791
22
20
18
16
14
12
10
8
6
4
2
0
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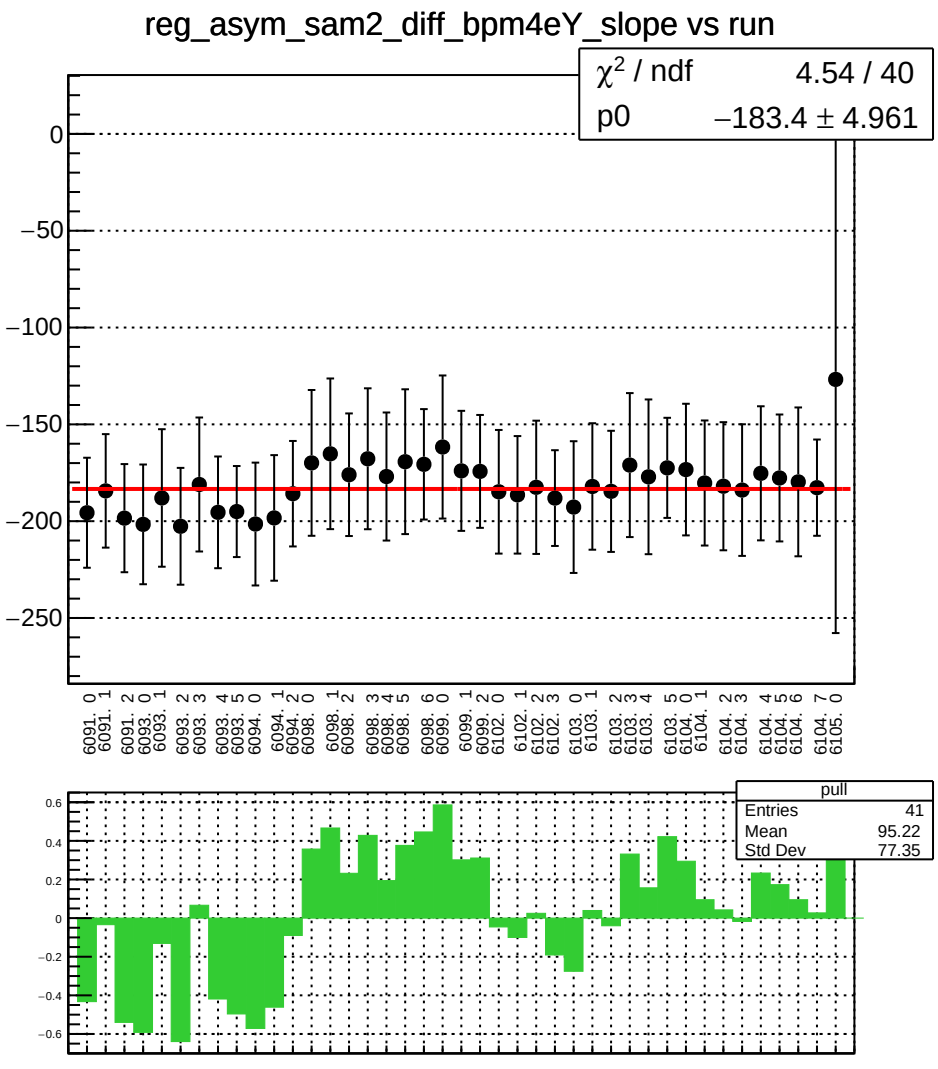
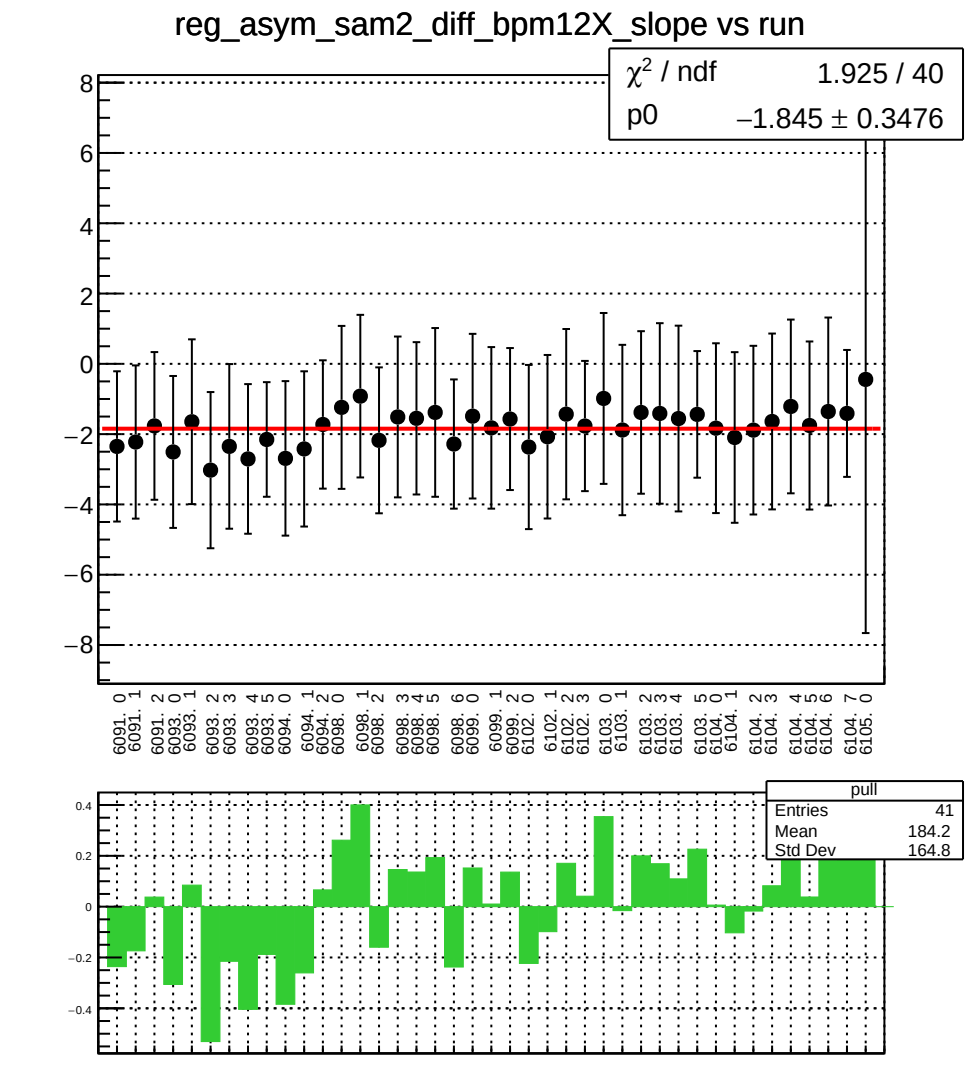
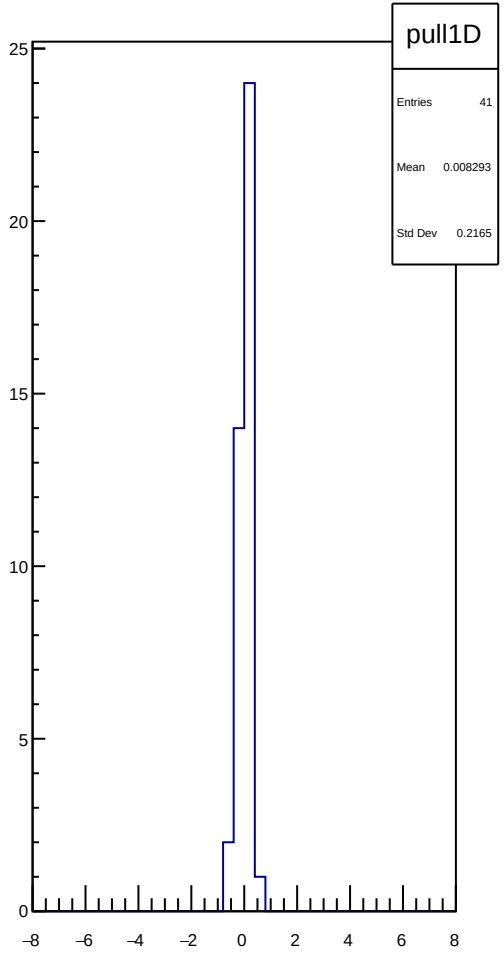
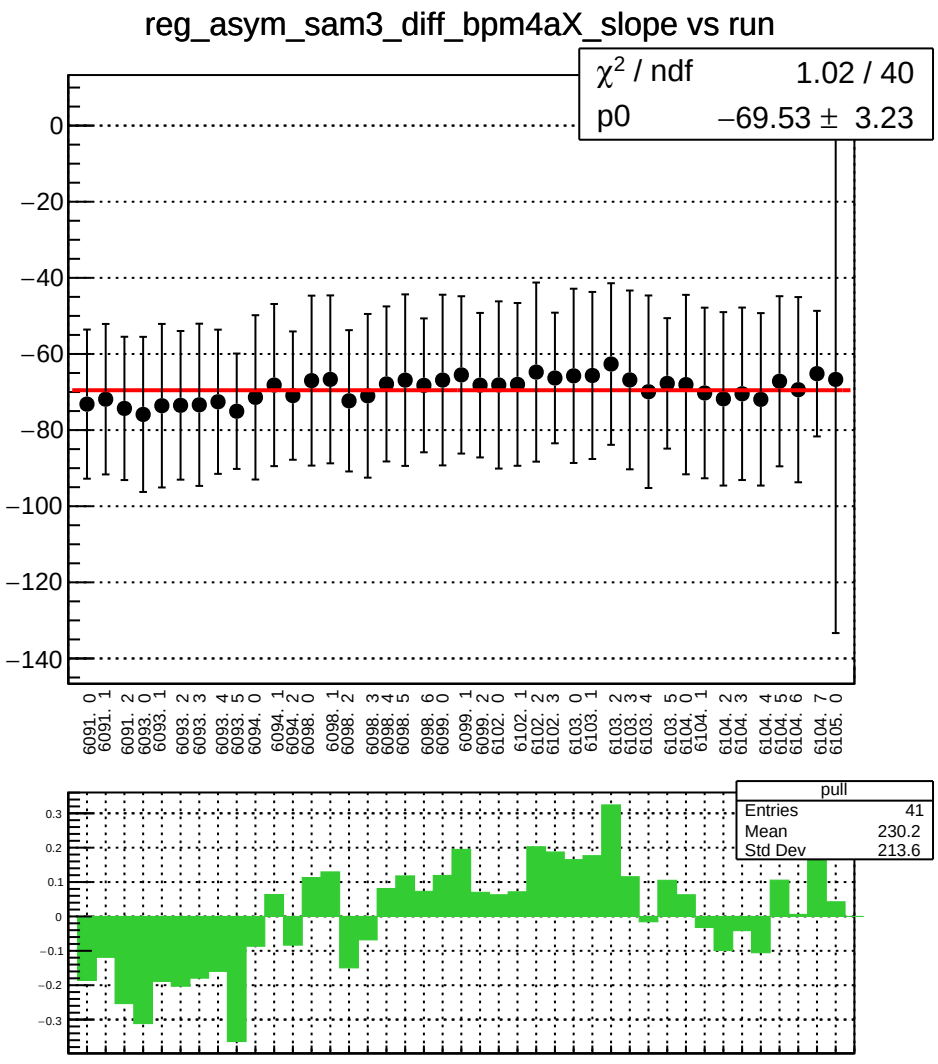
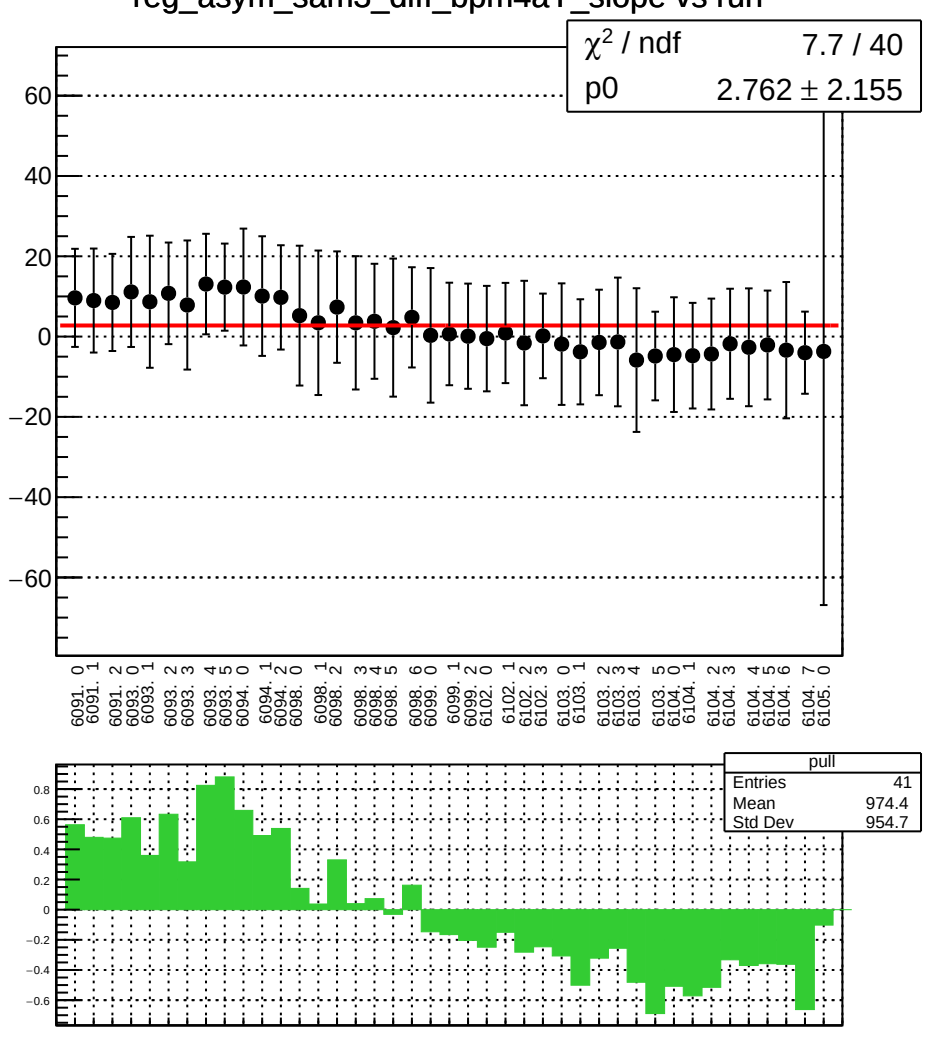
−6
−4
−2
0
2
4
6
8

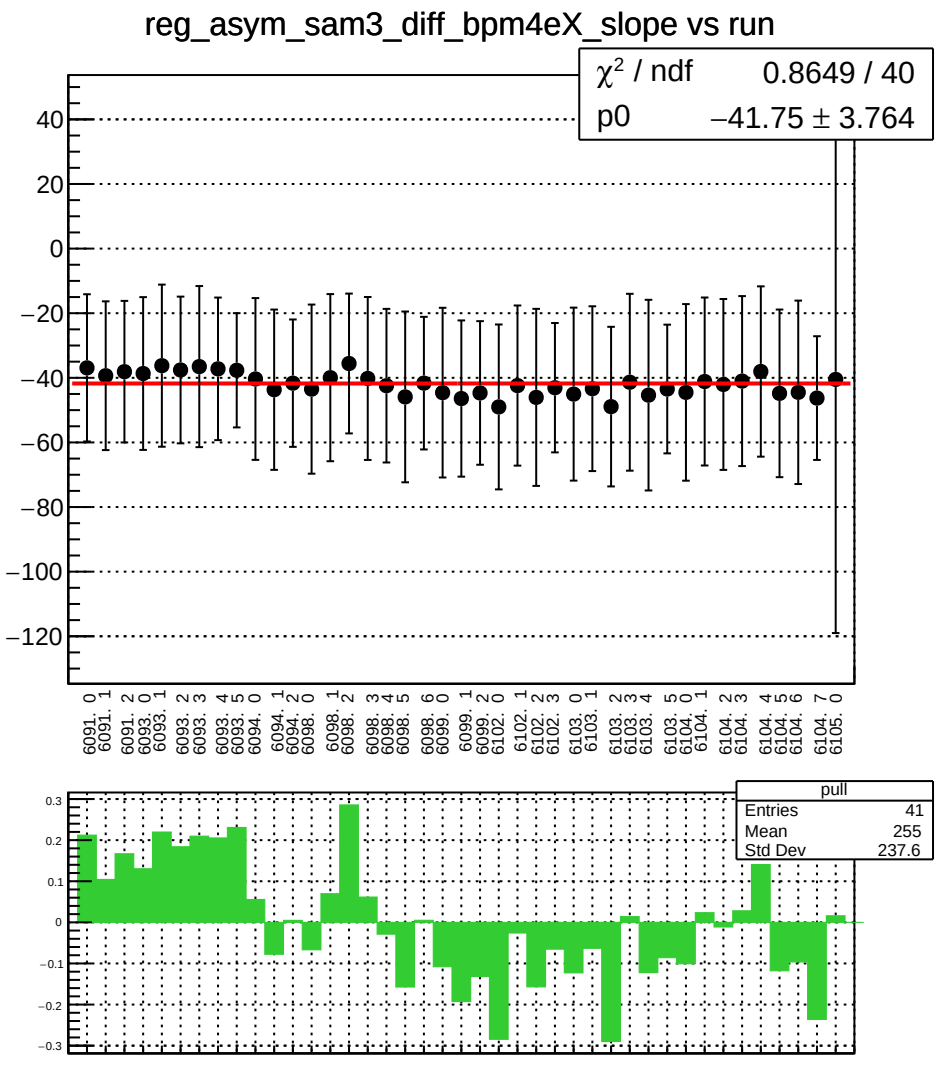

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.54 / 40
p0 −183.4 ± 4.961
0
−50
−100
−150
−200
−250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 95.22
Std Dev 77.35
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.02582
Std Dev 0.3318
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

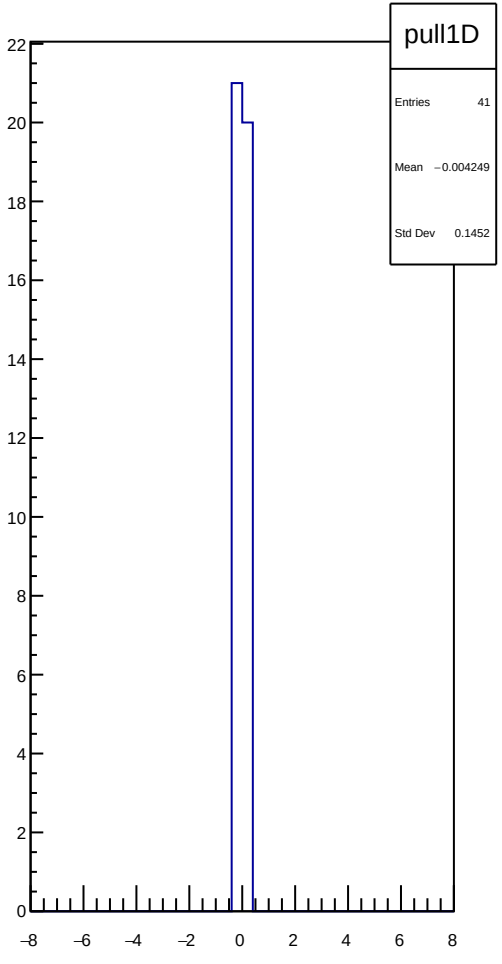

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.925 / 40
p0 −1.845 ± 0.3476
pull
Entries 41
Mean 184.2
Std Dev 164.8

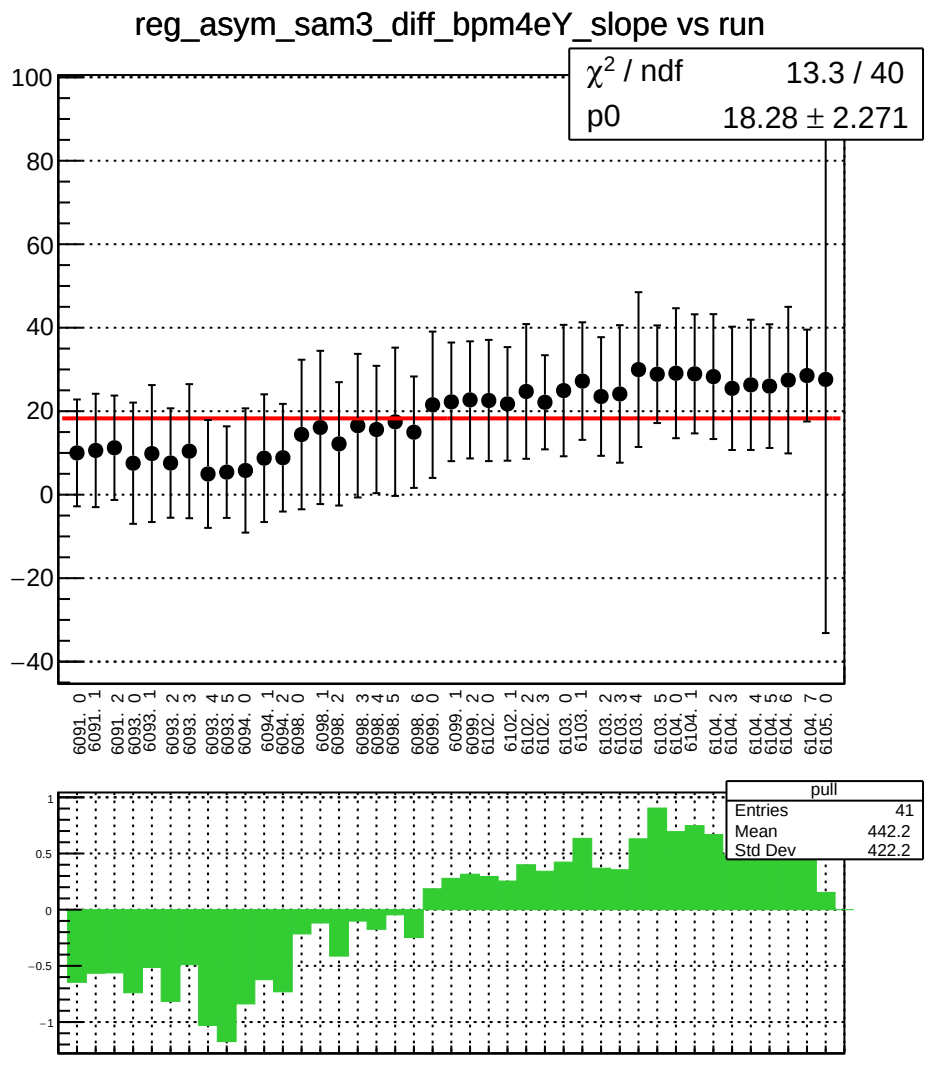

pull1D
Entries 41
Mean 0.008293
Std Dev 0.2165

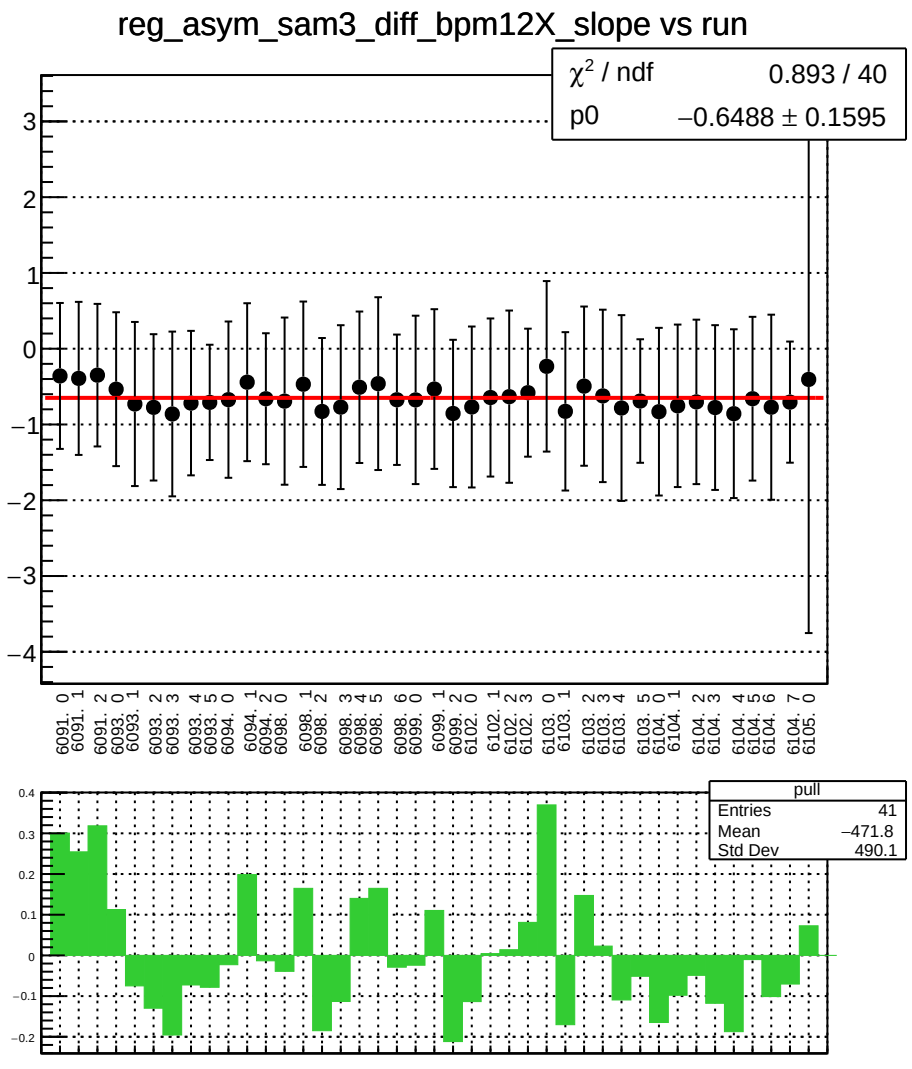

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 1.02 / 40
p0 −69.53 ± 3.23
0
−20
−40
−60
−80
−100
−120
−140
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 230.2
Std Dev 213.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean 0.005101
Std Dev 0.1576
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

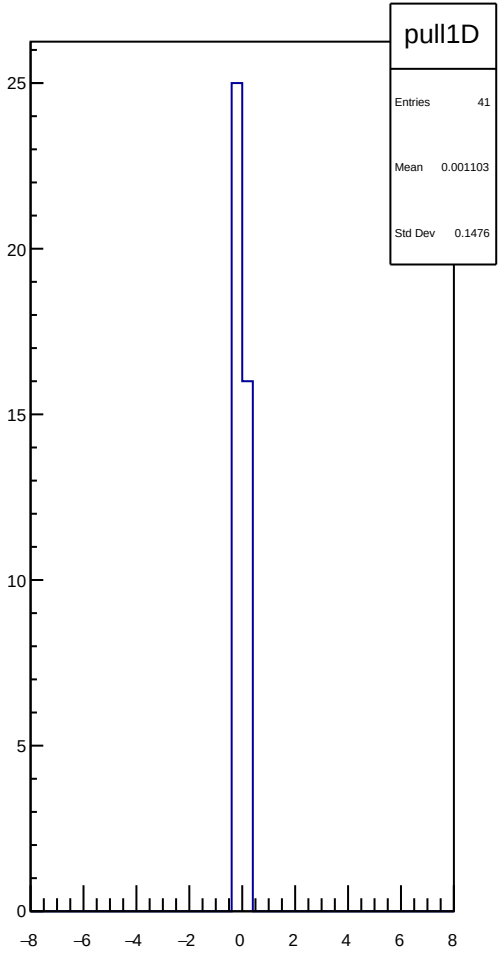

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 7.7 / 40
p0 2.762 ± 2.155
60
40
20
0
−20
−40
−60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 974.4
Std Dev 954.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.004761
Std Dev 0.4333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

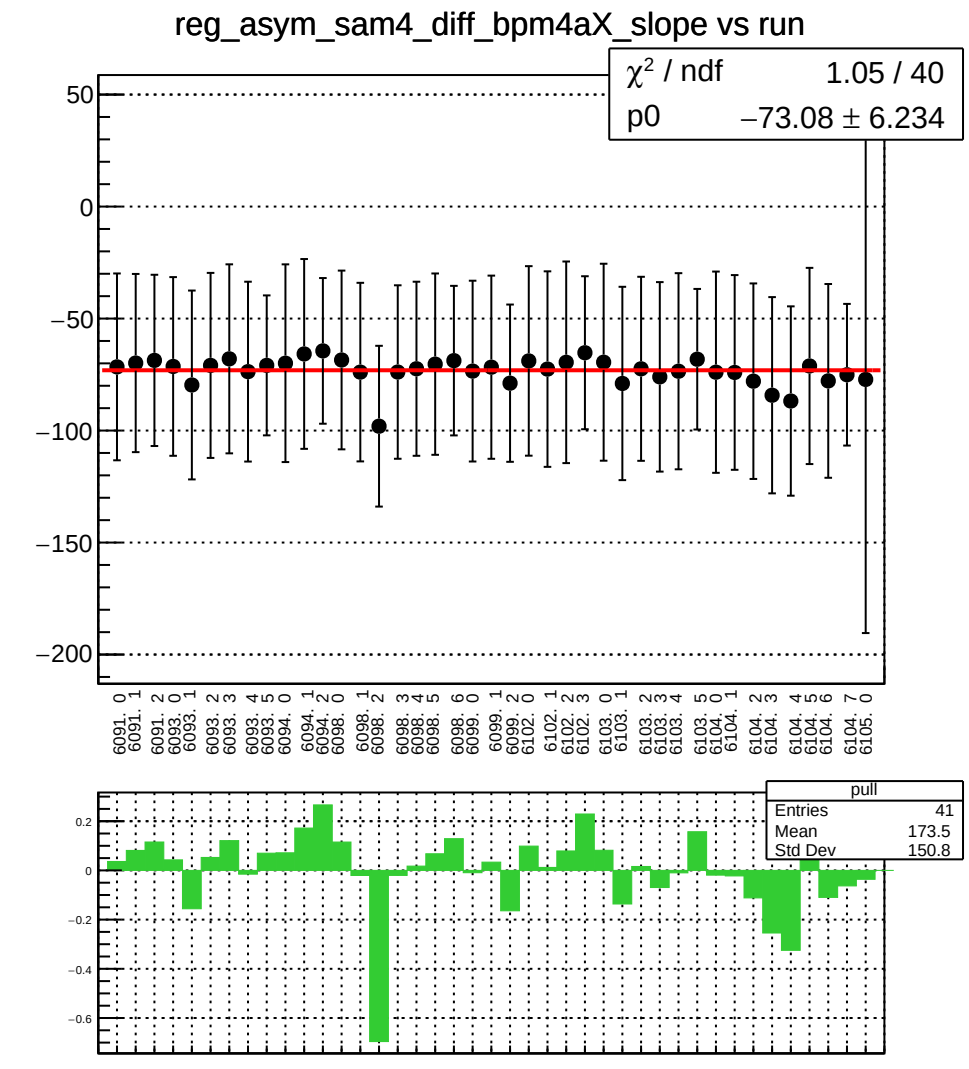

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.8649 / 40
p0 −41.75 ± 3.764
pull
Entries 41
Mean 255
Std Dev 237.6

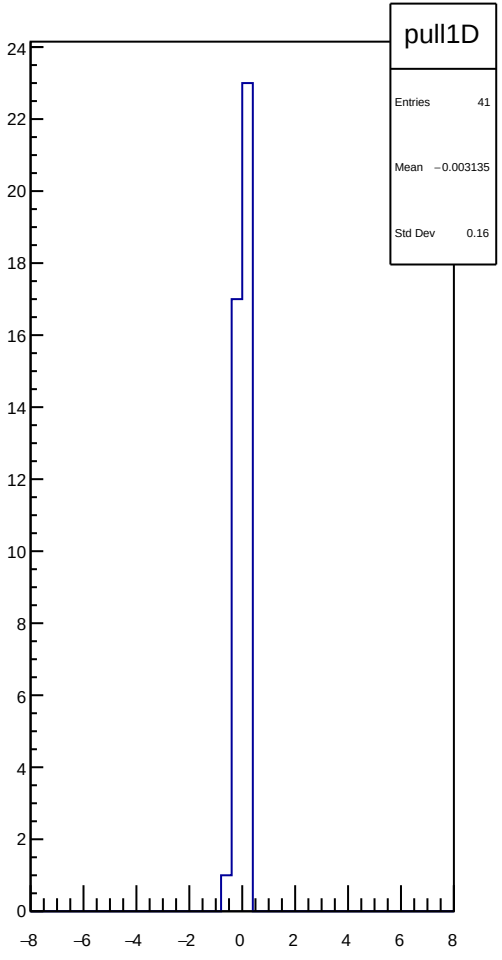

pull1D
Entries 41
Mean −0.004249
Std Dev 0.1452

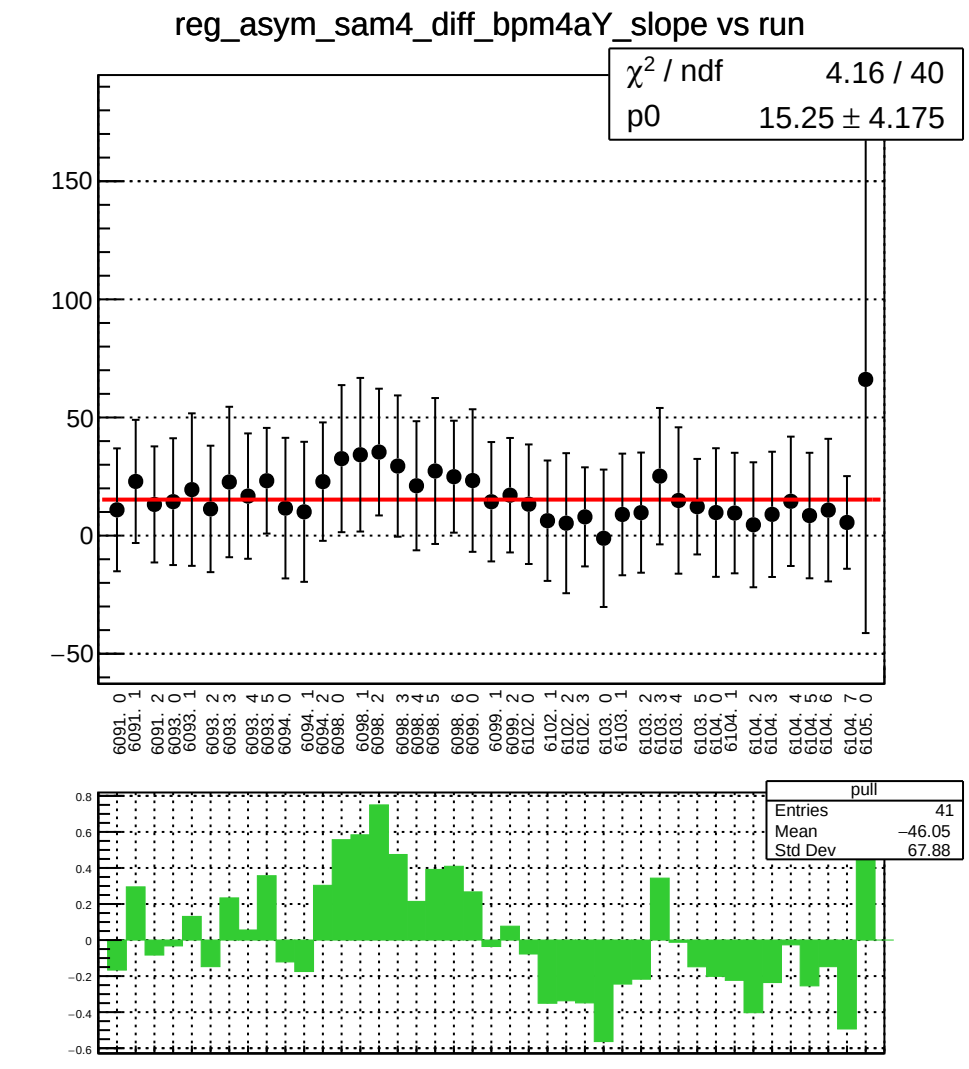

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 13.3 / 40
p0 18.28 ± 2.271
100
80
60
40
20
0
−20
−40
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 442.2
Std Dev 422.2
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.01424
Std Dev 0.5694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

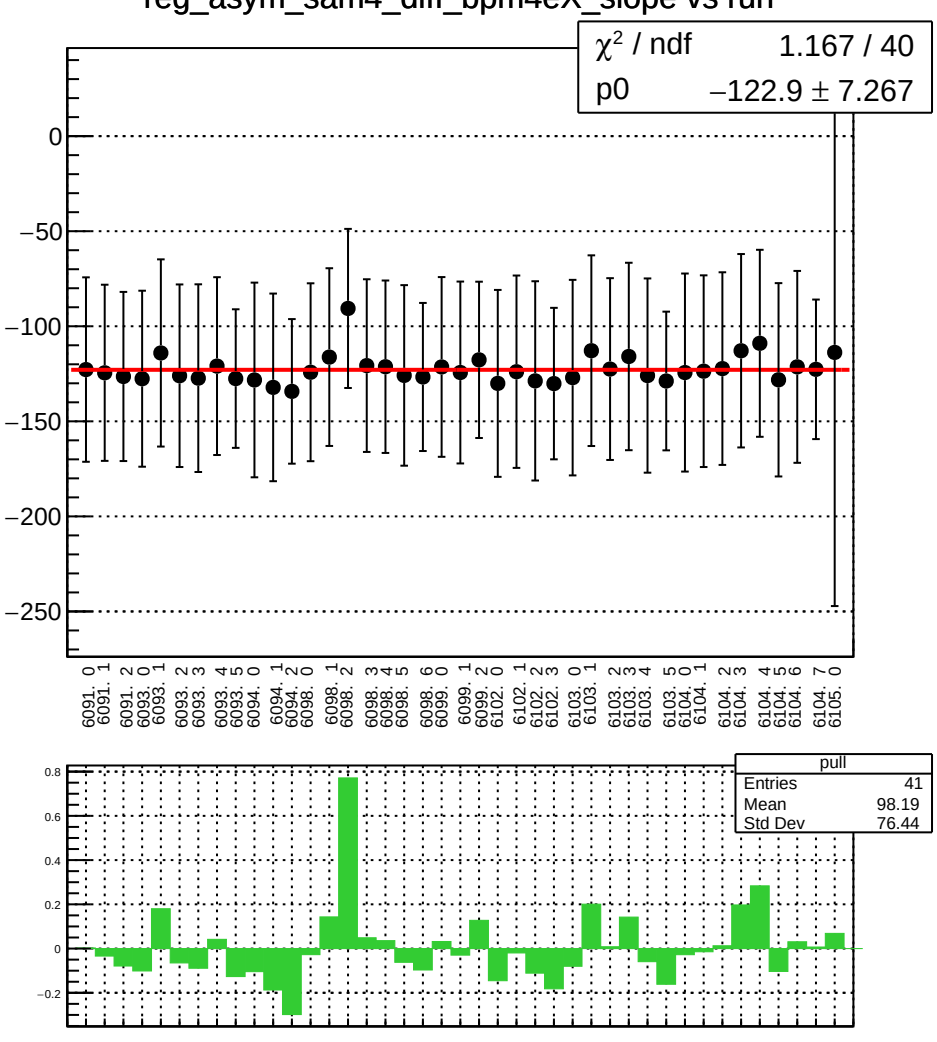

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.893 / 40
p0 −0.6488 ± 0.1595
pull
Entries 41
Mean −471.8
Std Dev 490.1

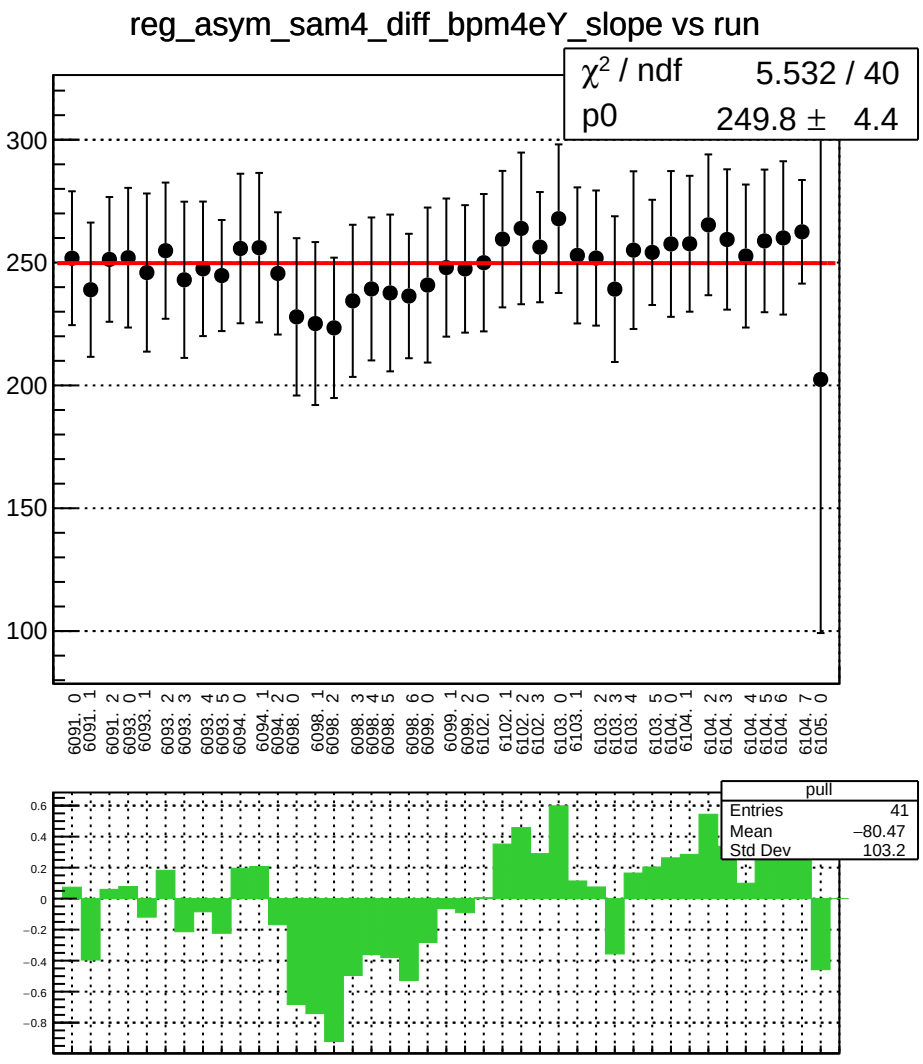

pull1D
Entries 41
Mean 0.001103
Std Dev 0.1476

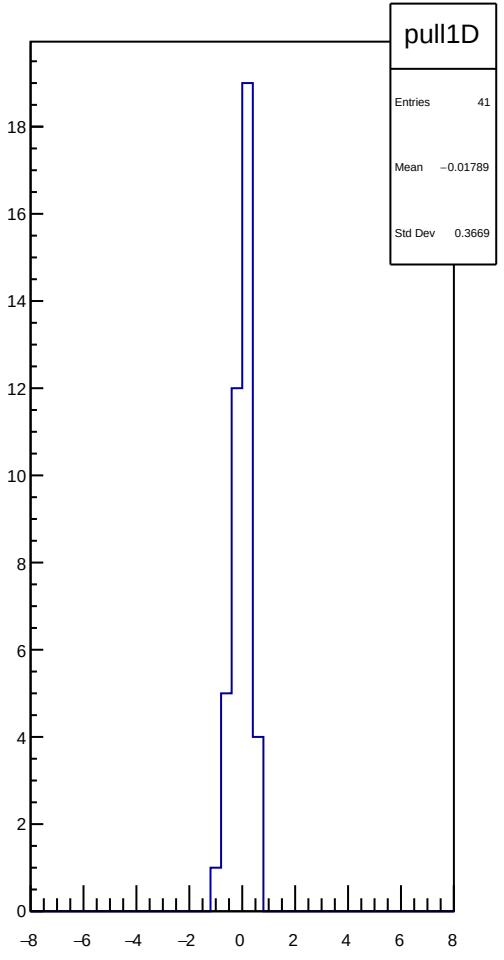

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 1.05 / 40
p0 −73.08 ± 6.234
pull
Entries 41
Mean 173.5
Std Dev 150.8

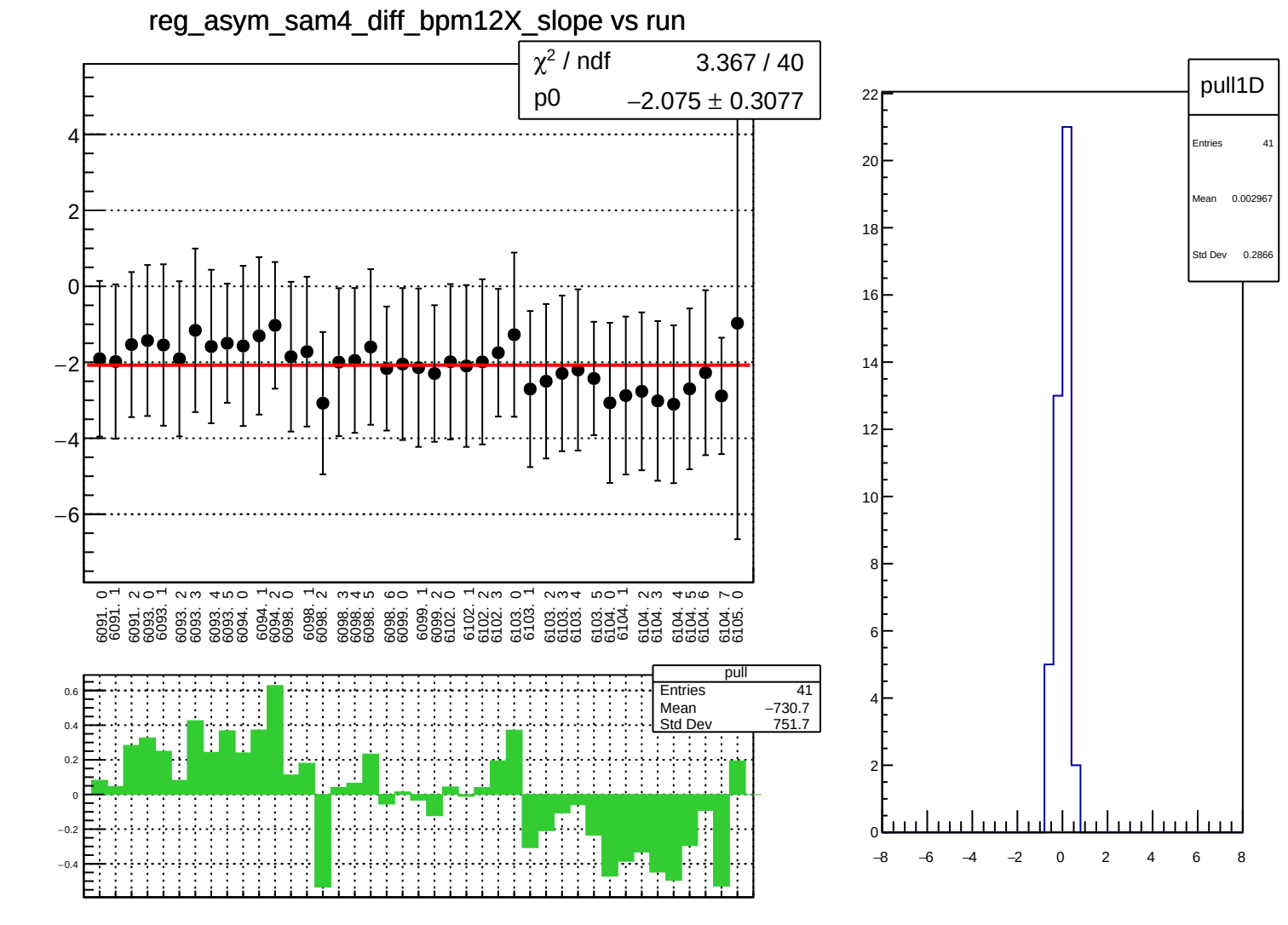

pull1D
Entries 41
Mean −0.003135
Std Dev 0.16

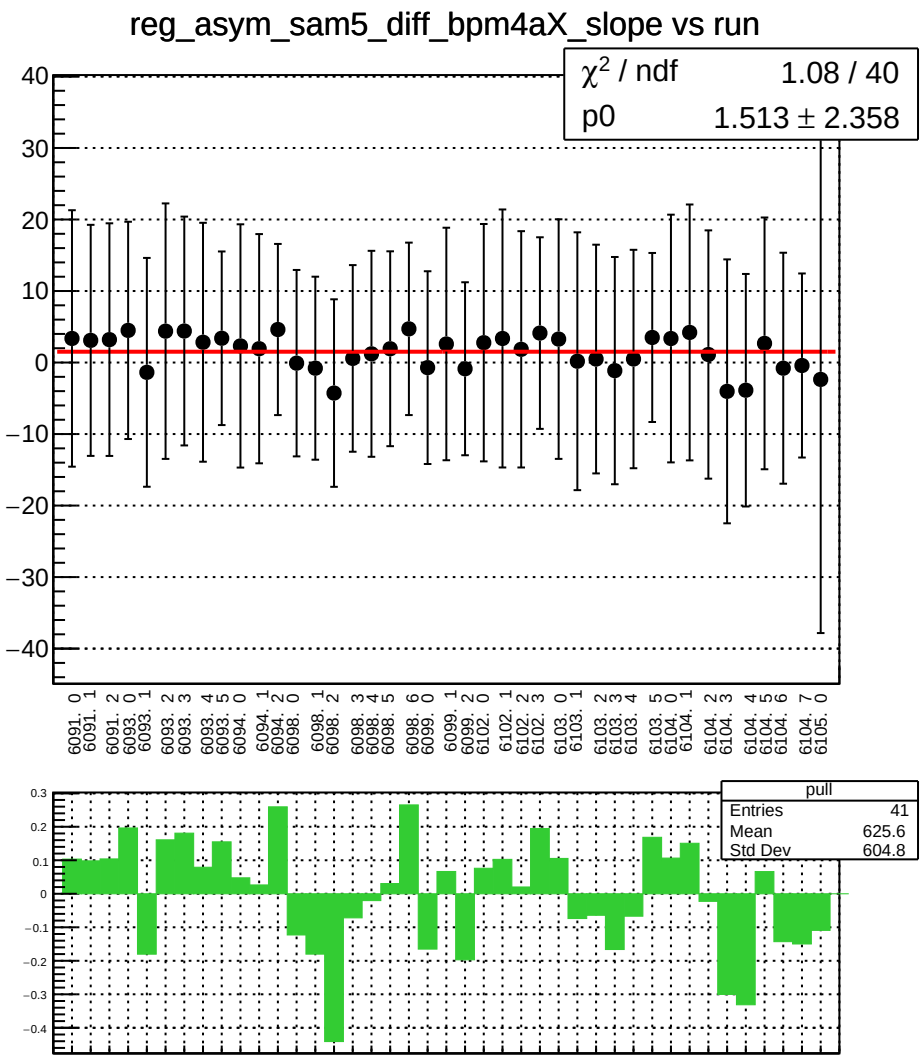

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.16 / 40
p0 15.25 ± 4.175
150
100
50
0
−50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −46.05
Std Dev 67.88
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.02129
Std Dev 0.3178
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

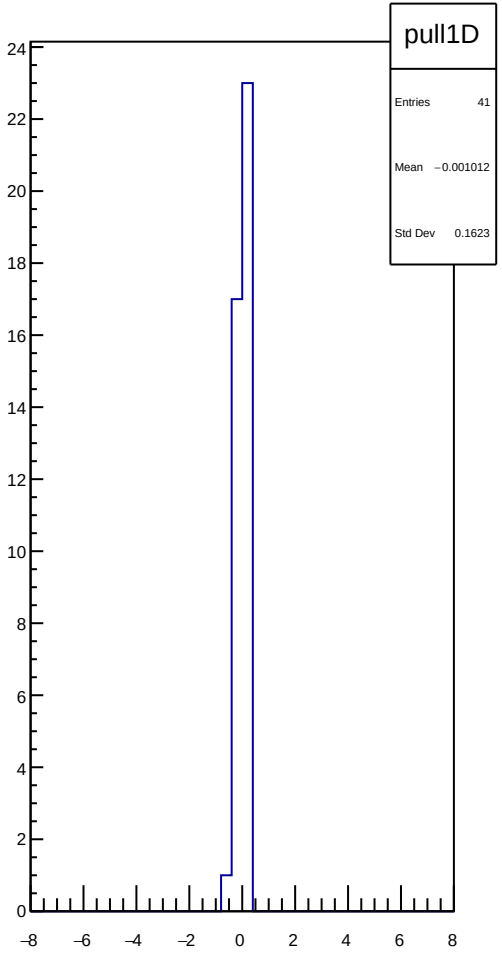

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.167 / 40
p0 −122.9 ± 7.267
0
−50
−100
−150
−200
−250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 98.19
Std Dev 76.44
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 41
Mean 0.003163
Std Dev 0.1686
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

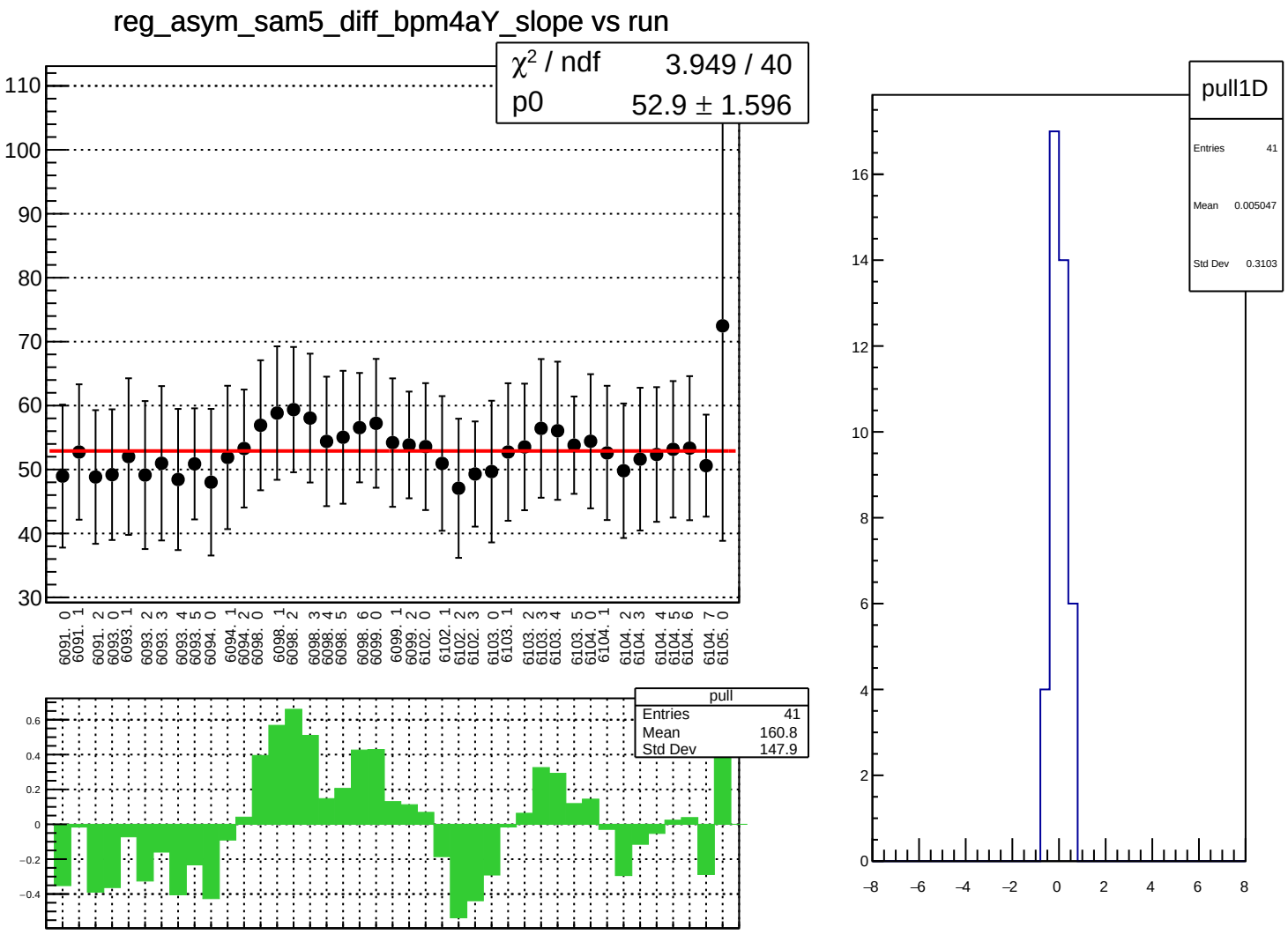

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 5.532 / 40
p0 249.8 ± 4.4
300
250
200
150
100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −80.47
Std Dev 103.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

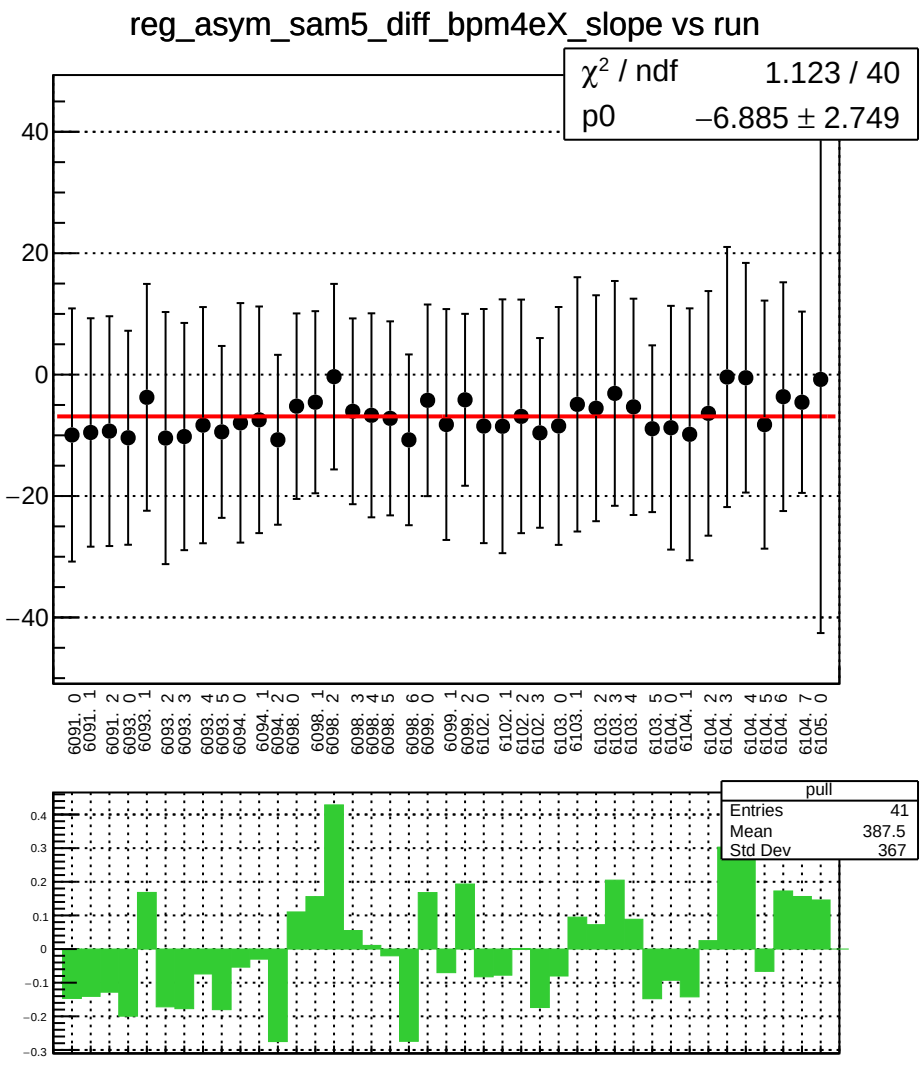

pull1D
Entries 41
Mean −0.01789
Std Dev 0.3669
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

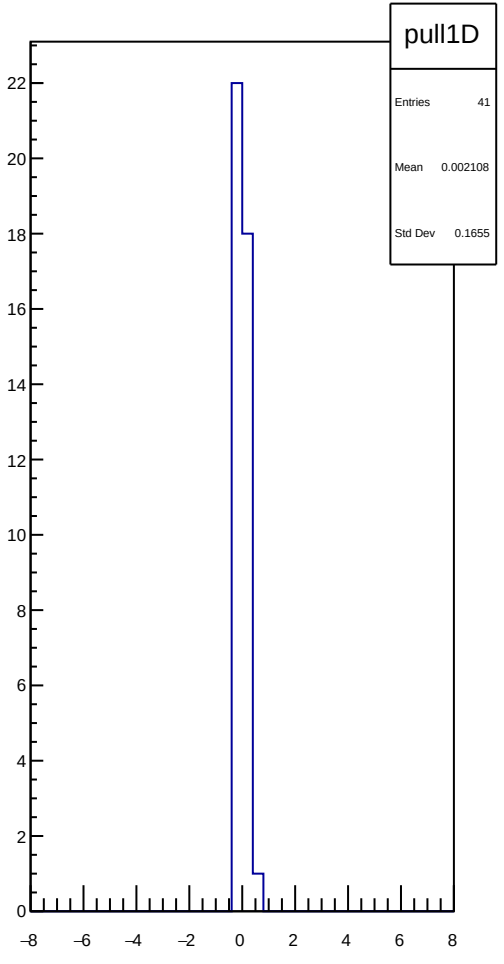

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.367 / 40
p0 −2.075 ± 0.3077
pull
Entries 41
Mean −730.7
Std Dev 751.7
pull1D
Entries 41
Mean 0.002967
Std Dev 0.2866

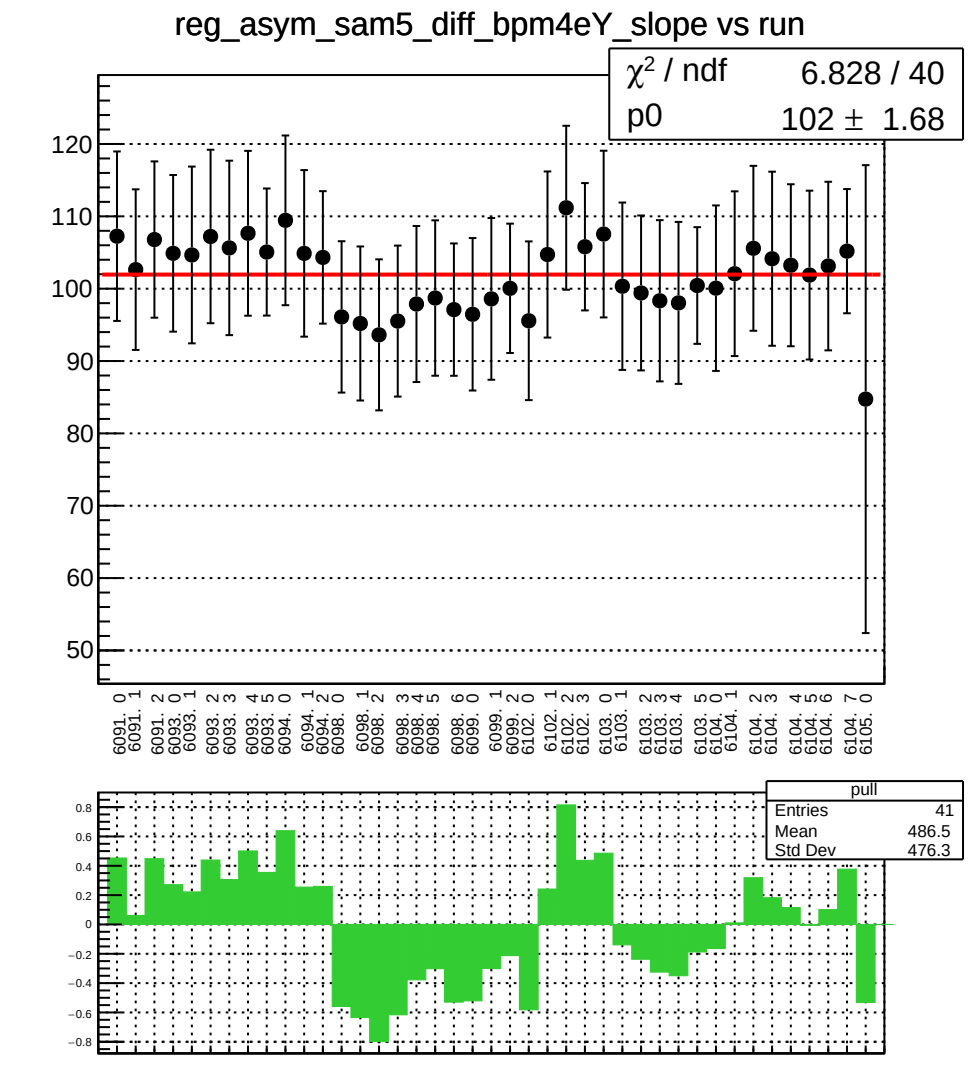

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 1.08 / 40
p0 1.513 ± 2.358
pull
Entries 41
Mean 625.6
Std Dev 604.8

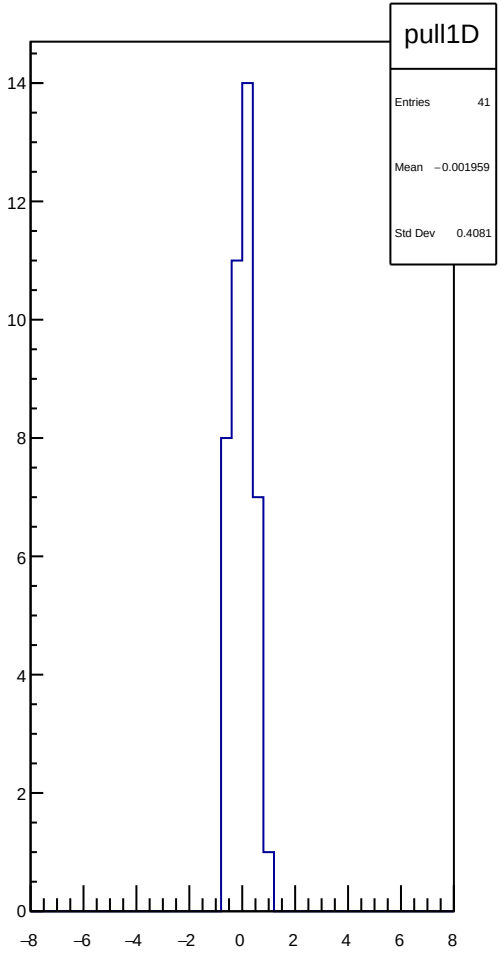

pull1D
Entries 41
Mean −0.001012
Std Dev 0.1623

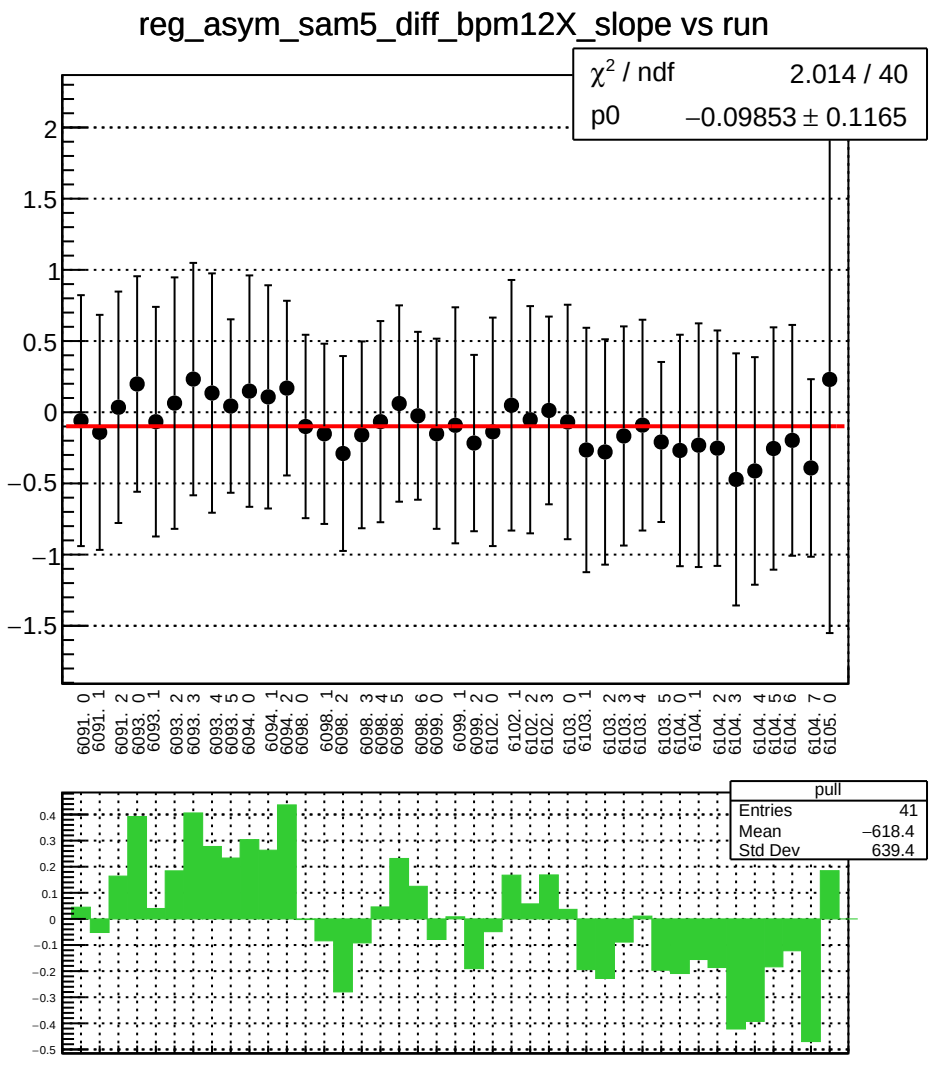

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.949 / 40
p0 52.9 ± 1.596
110
100
90
80
70
60
50
40
30
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 160.8
Std Dev 147.9
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean 0.005047
Std Dev 0.3103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

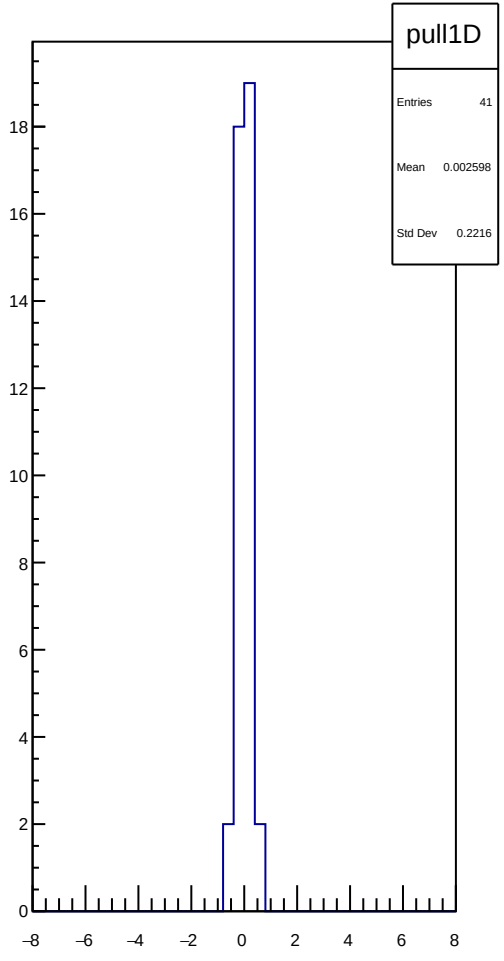

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.123 / 40
p0 −6.885 ± 2.749
pull
Entries 41
Mean 387.5
Std Dev 367

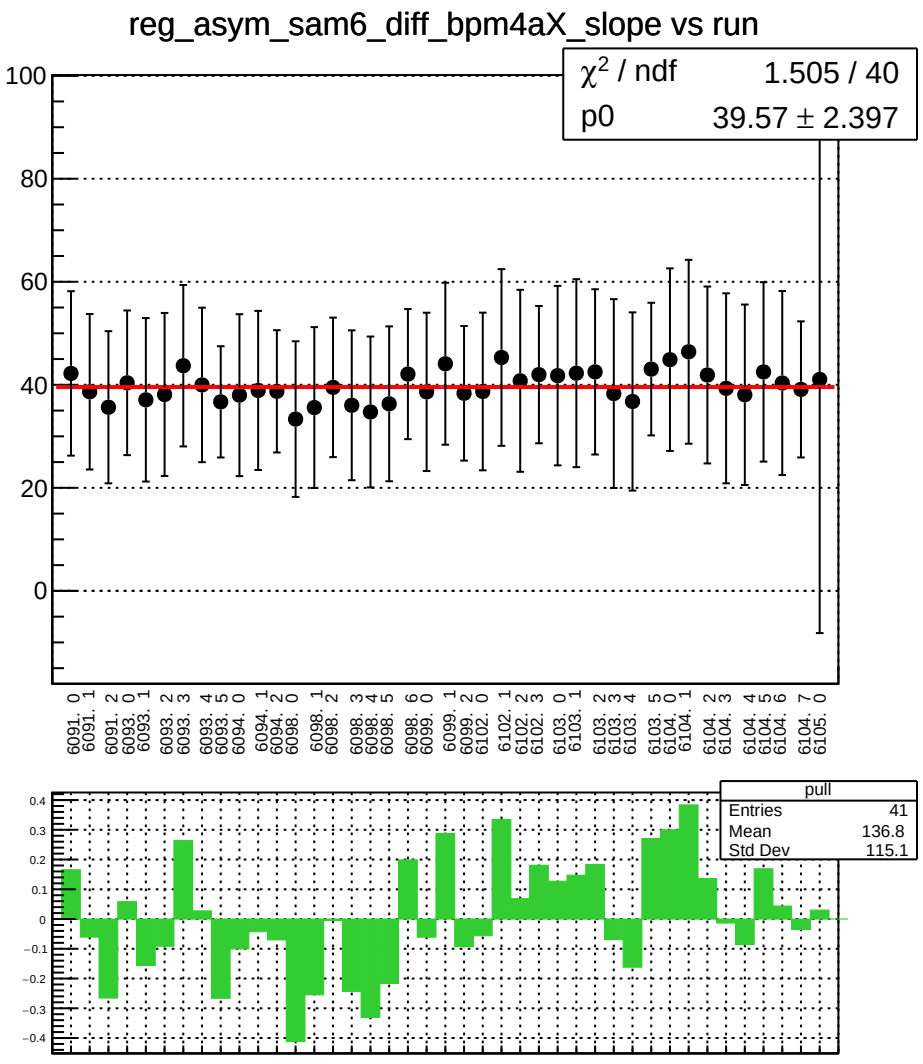

pull1D
Entries 41
Mean 0.002108
Std Dev 0.1655

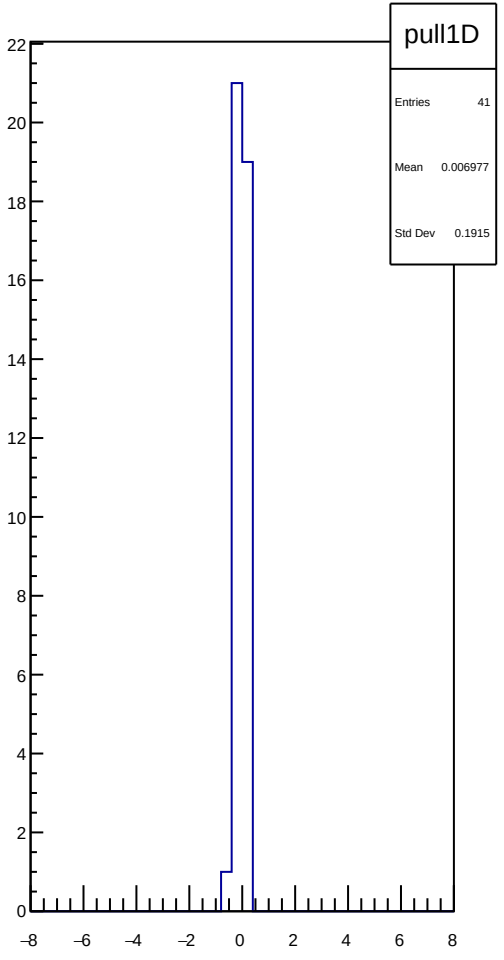

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 6.828 / 40
p0 102 ± 1.68
pull
Entries 41
Mean 486.5
Std Dev 476.3

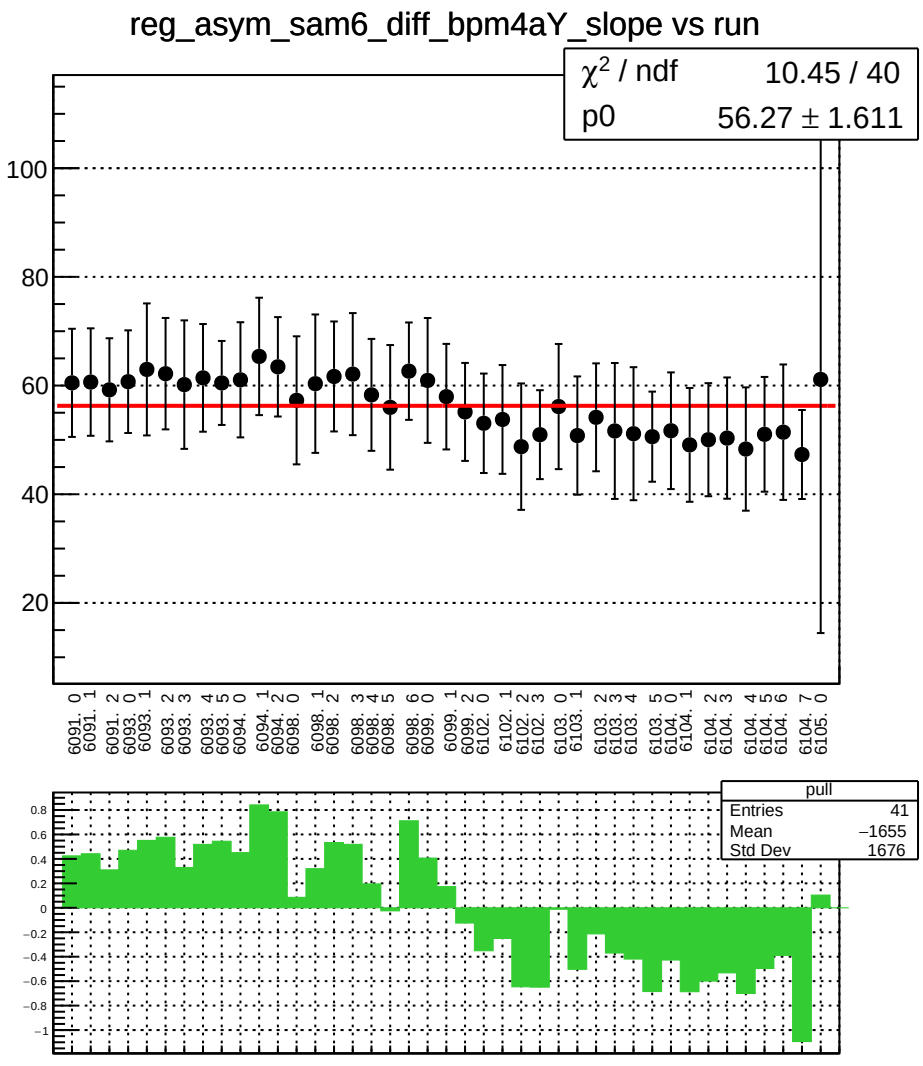

pull1D
Entries 41
Mean −0.001959
Std Dev 0.4081

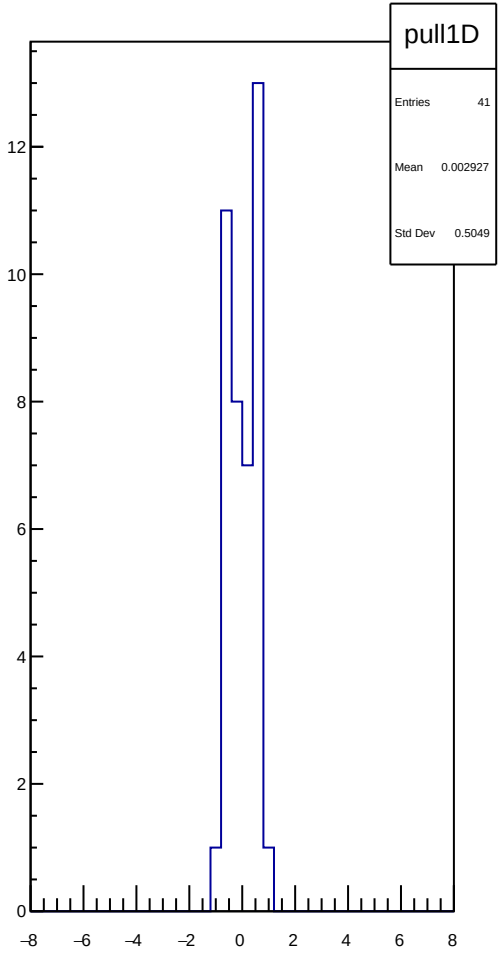

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.014 / 40
p0 −0.09853 ± 0.1165
pull
Entries 41
Mean −618.4
Std Dev 639.4

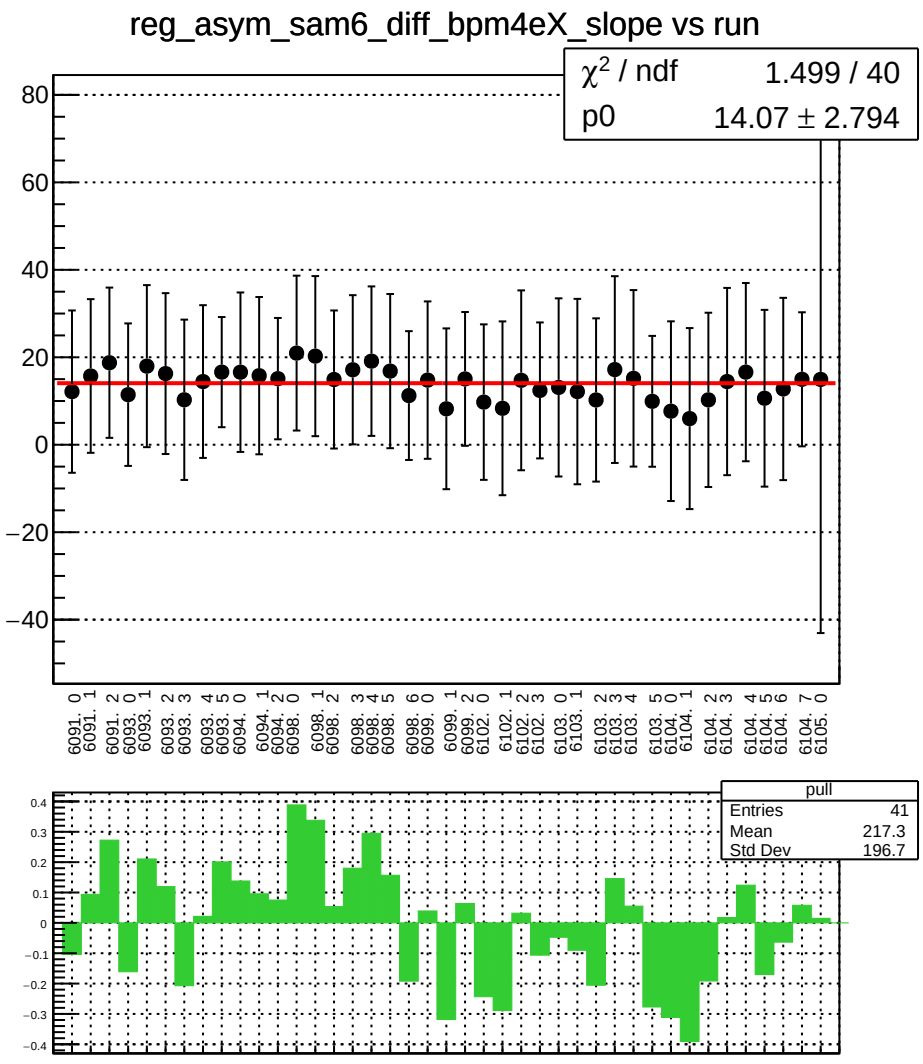

pull1D
Entries 41
Mean 0.002598
Std Dev 0.2216

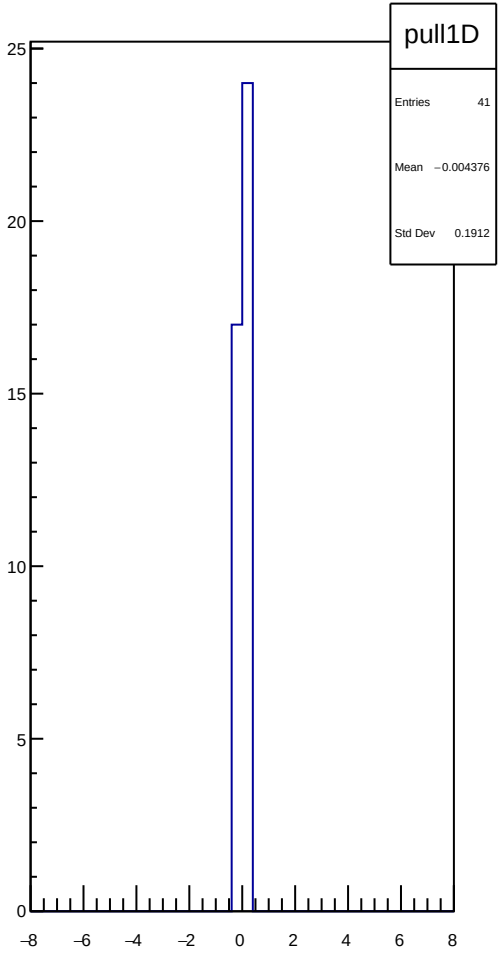

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 1.505 / 40
p0 39.57 ± 2.397
pull
Entries 41
Mean 136.8
Std Dev 115.1

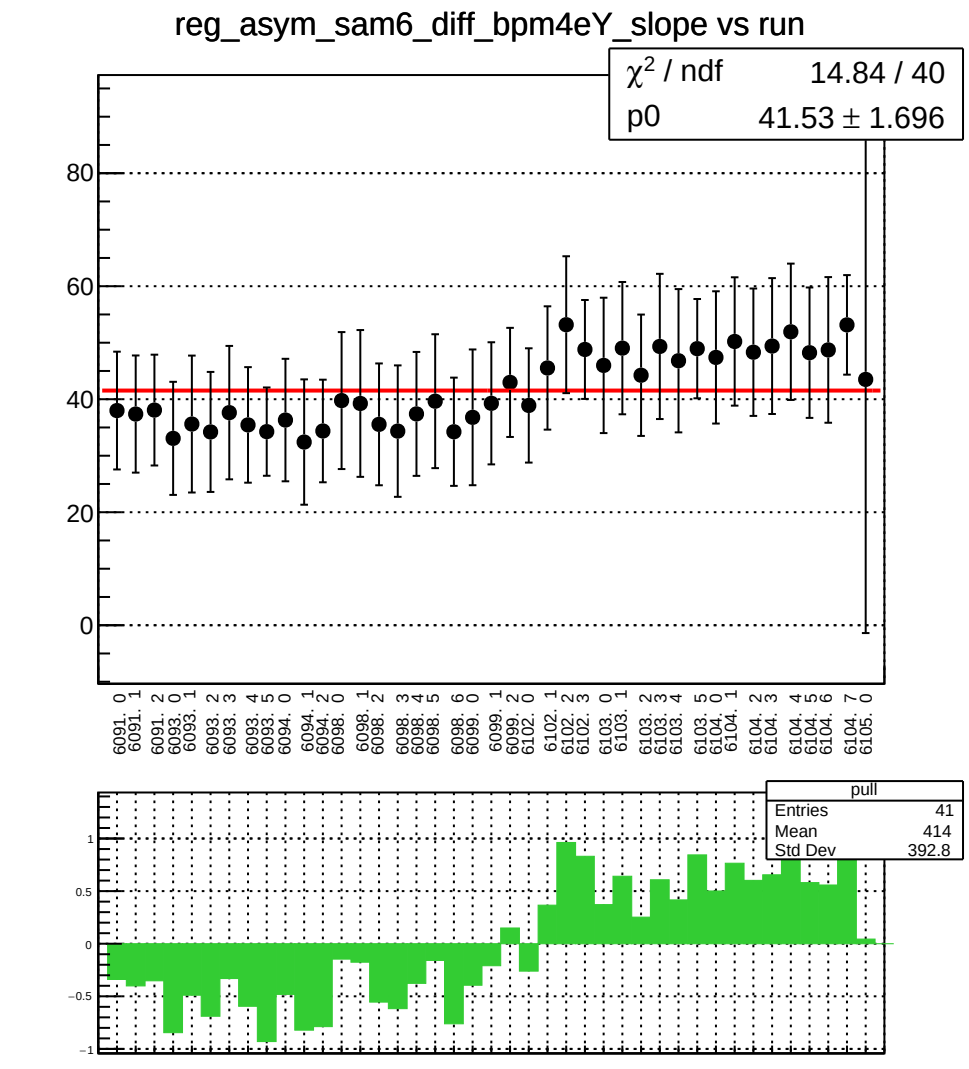

pull1D
Entries 41
Mean 0.006977
Std Dev 0.1915

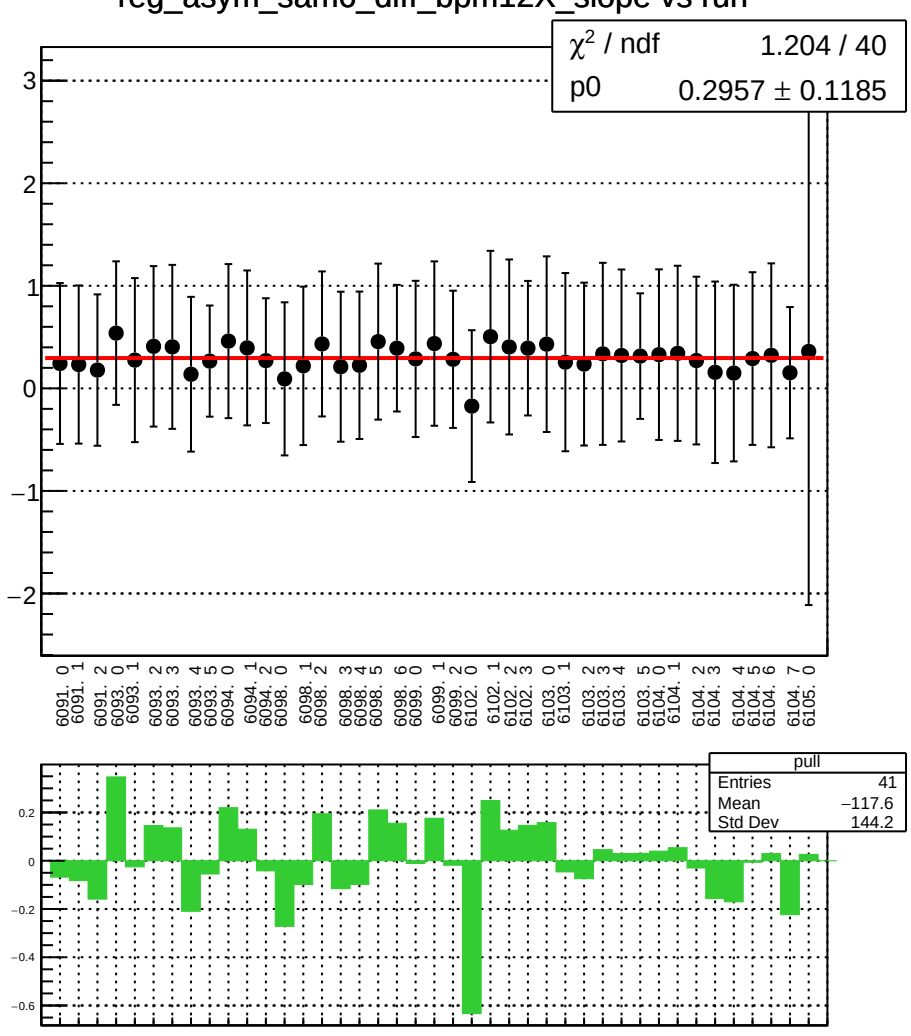

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 10.45 / 40
p0 56.27 ± 1.611
100
80
60
40
20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1655
Std Dev 1676
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

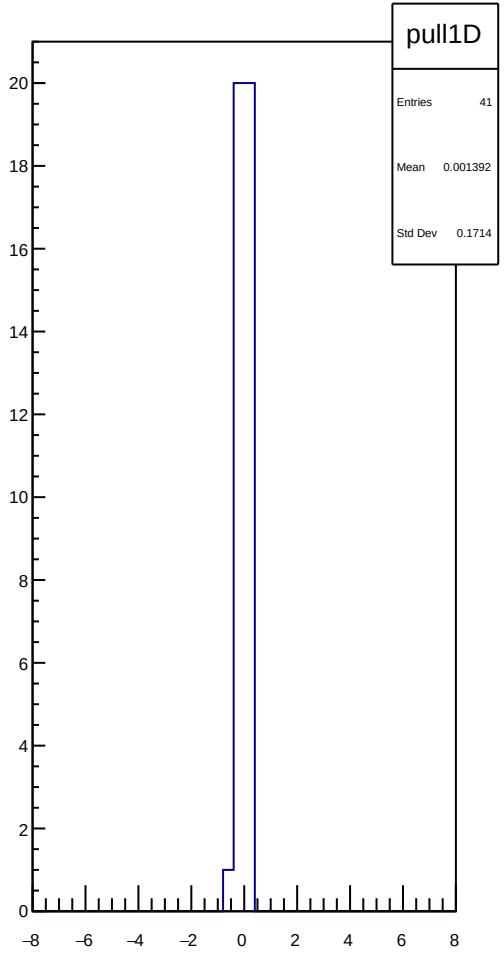

pull1D
Entries 41
Mean 0.002927
Std Dev 0.5049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

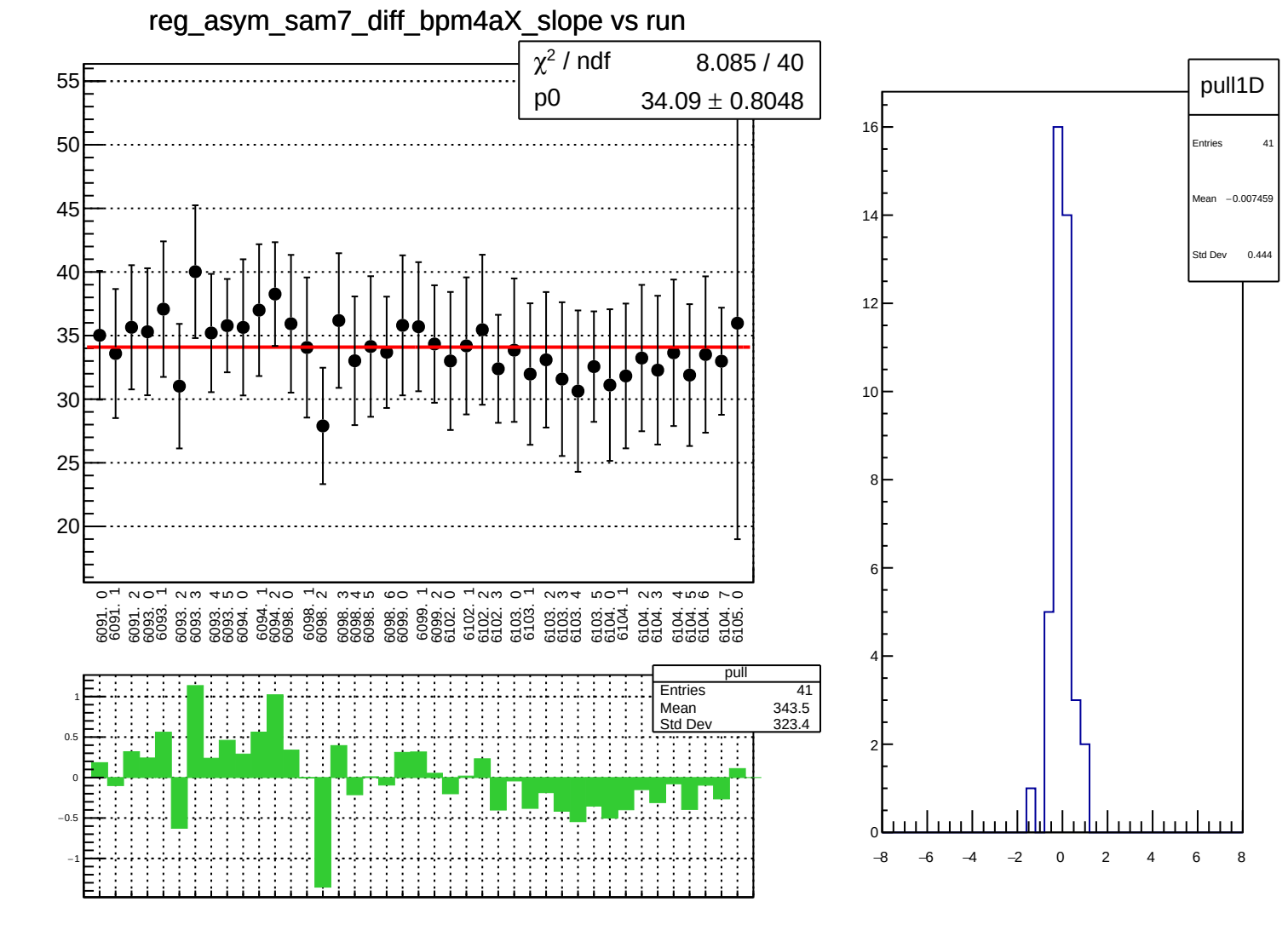

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.499 / 40
p0 14.07 ± 2.794
pull
Entries 41
Mean 217.3
Std Dev 196.7

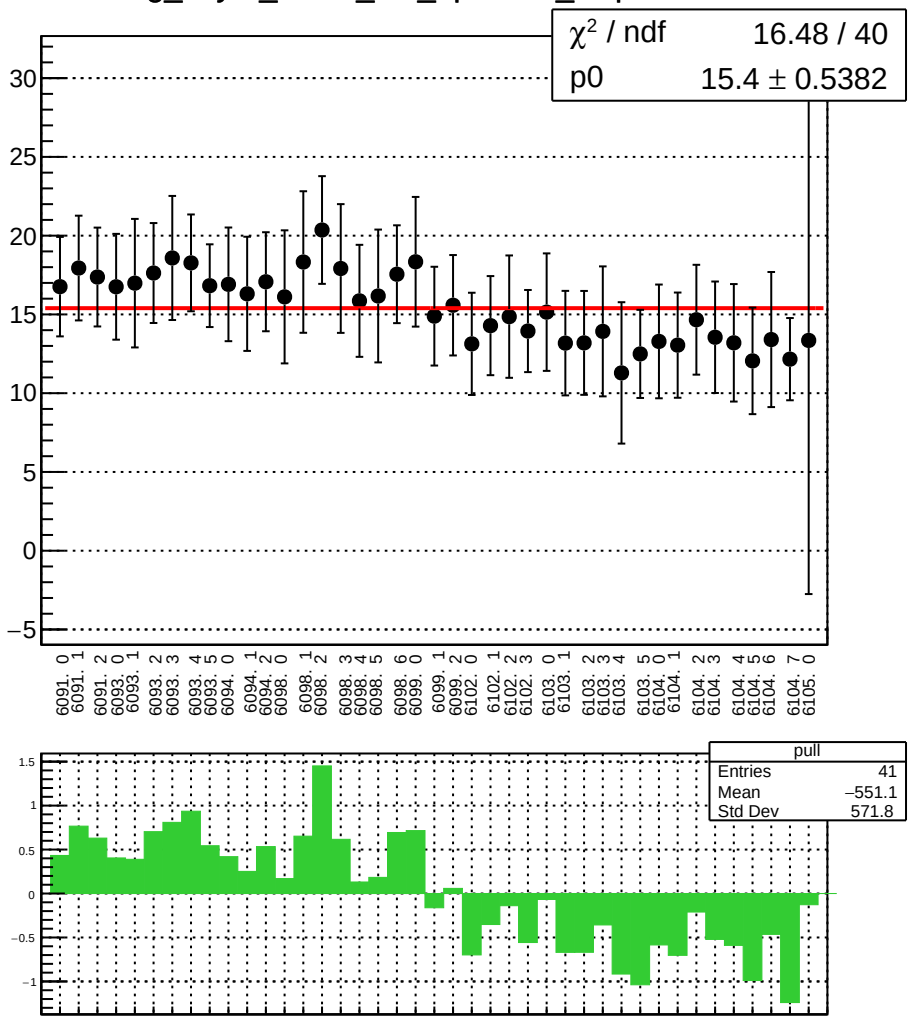

pull1D
Entries 41
Mean −0.004376
Std Dev 0.1912

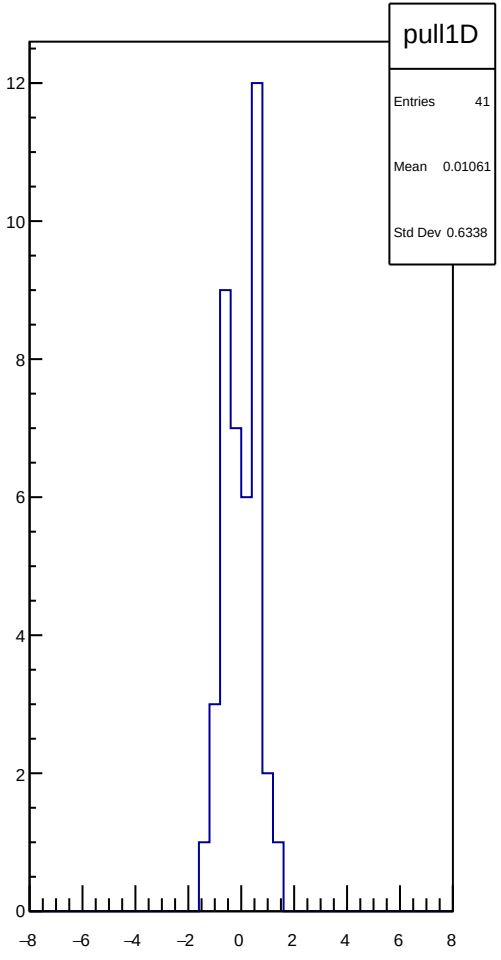

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 14.84 / 40
p0 41.53 ± 1.696
80
60
40
20
0
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 414
Std Dev 392.8
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0149
Std Dev 0.6015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

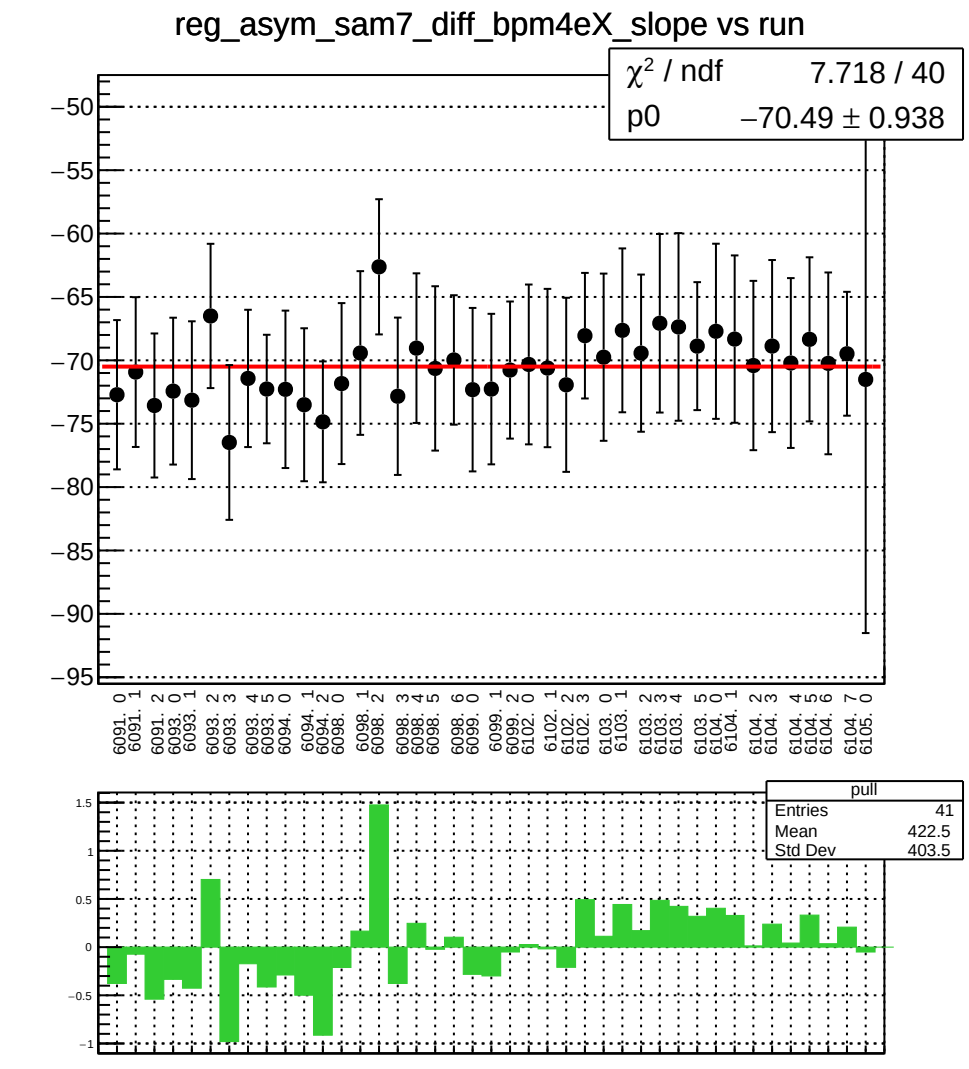

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.204 / 40
p0 0.2957 ± 0.1185
pull
Entries 41
Mean −117.6
Std Dev 144.2

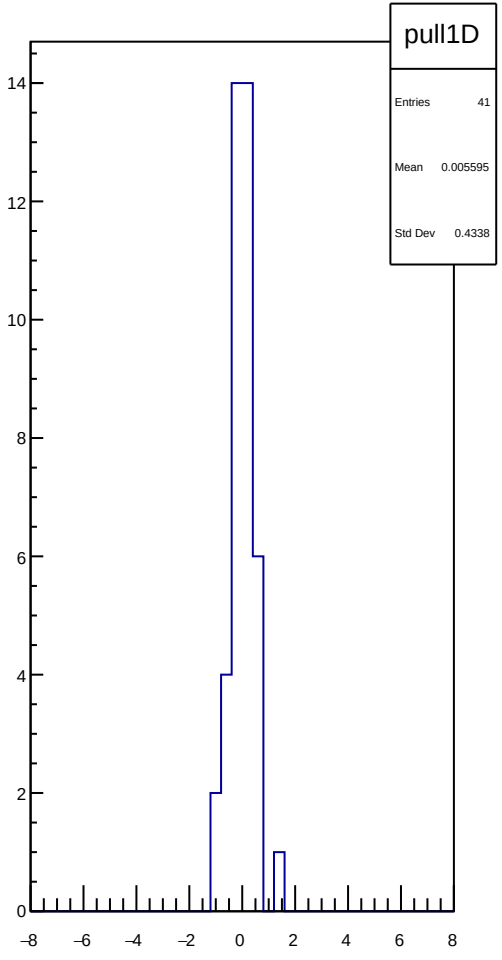

pull1D
Entries 41
Mean 0.001392
Std Dev 0.1714

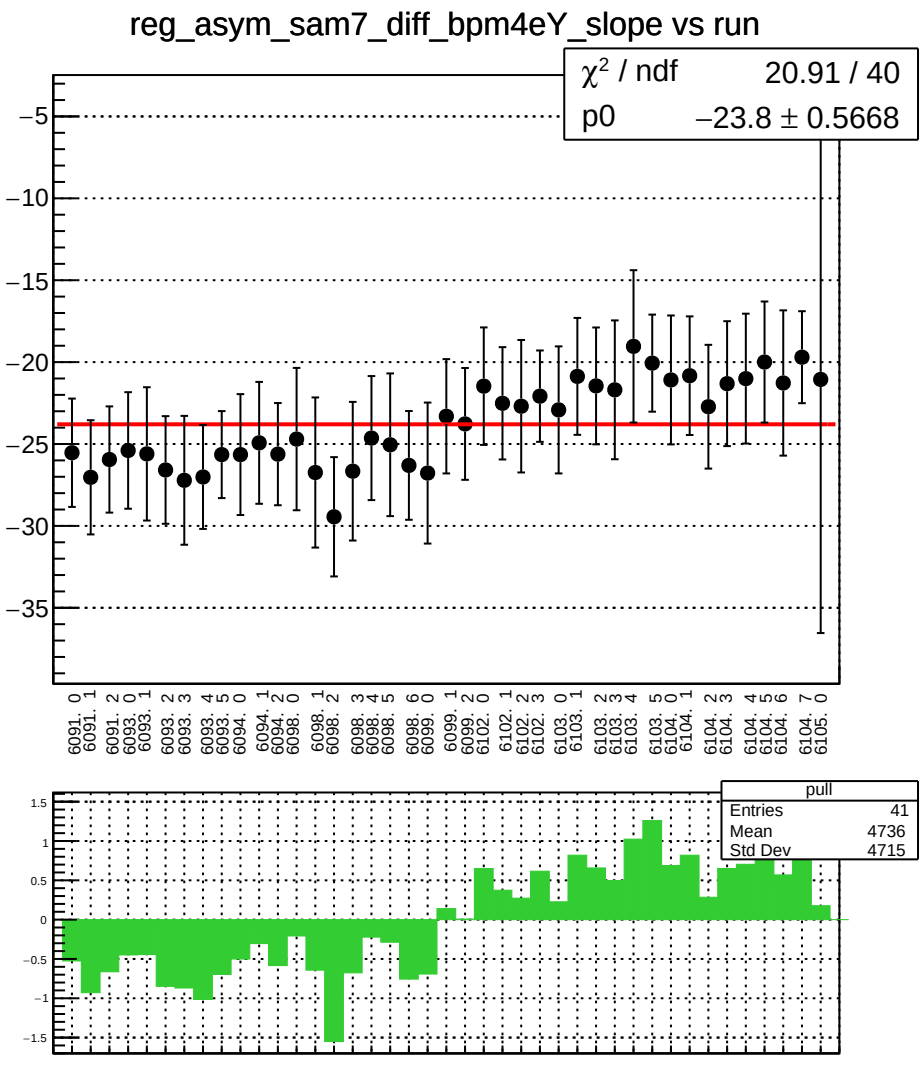

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 8.085 / 40
p0 34.09 ± 0.8048
pull
Entries 41
Mean 343.5
Std Dev 323.4
pull1D
Entries 41
Mean −0.007459
Std Dev 0.444

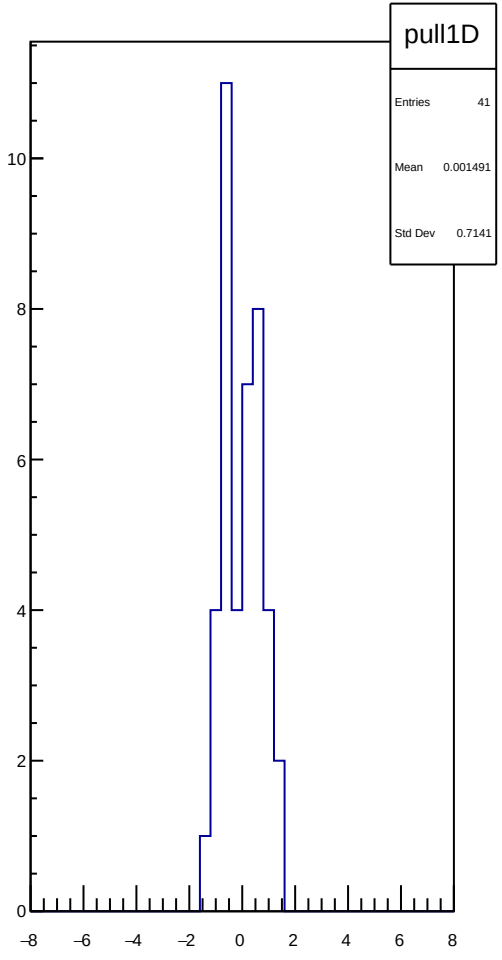

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 16.48 / 40
p0 15.4 ± 0.5382
pull
Entries 41
Mean −551.1
Std Dev 571.8

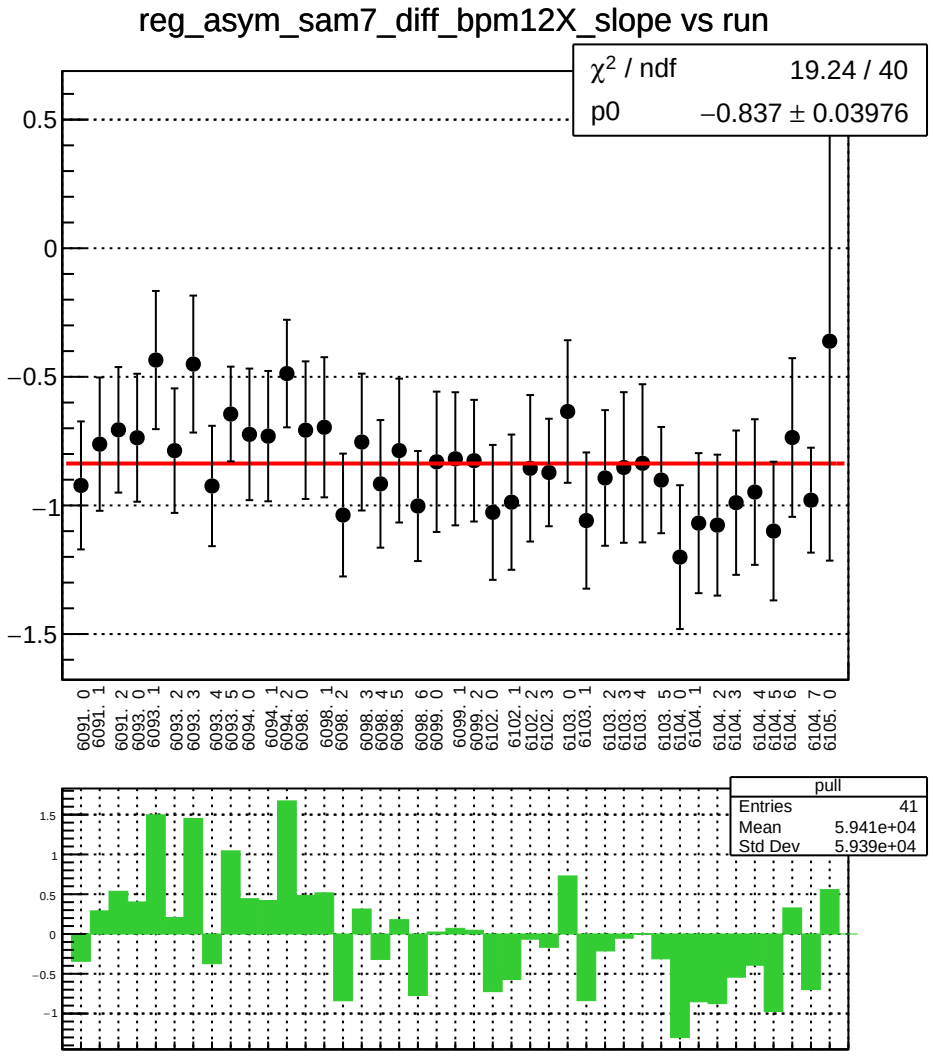

pull1D
Entries 41
Mean 0.01061
Std Dev 0.6338

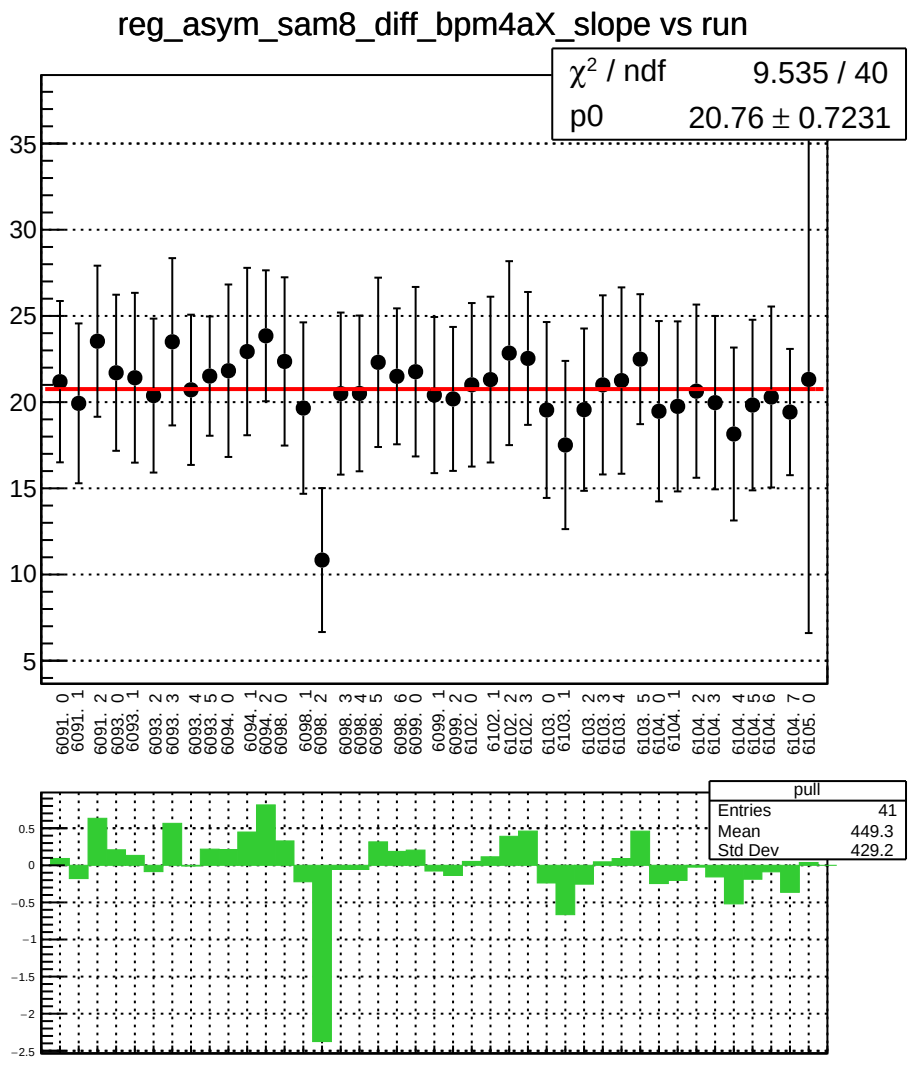

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 7.718 / 40
p0 −70.49 ± 0.938
pull
Entries 41
Mean 422.5
Std Dev 403.5

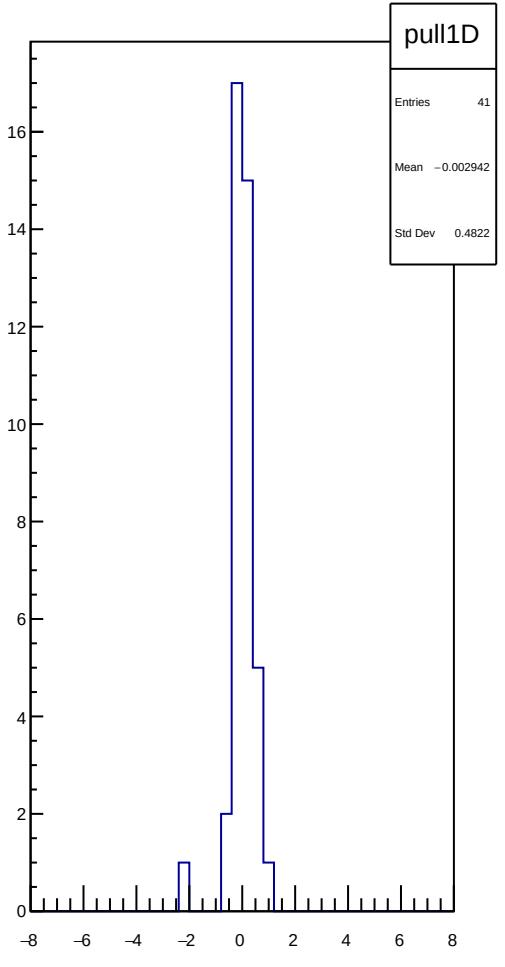

pull1D
Entries 41
Mean 0.005595
Std Dev 0.4338

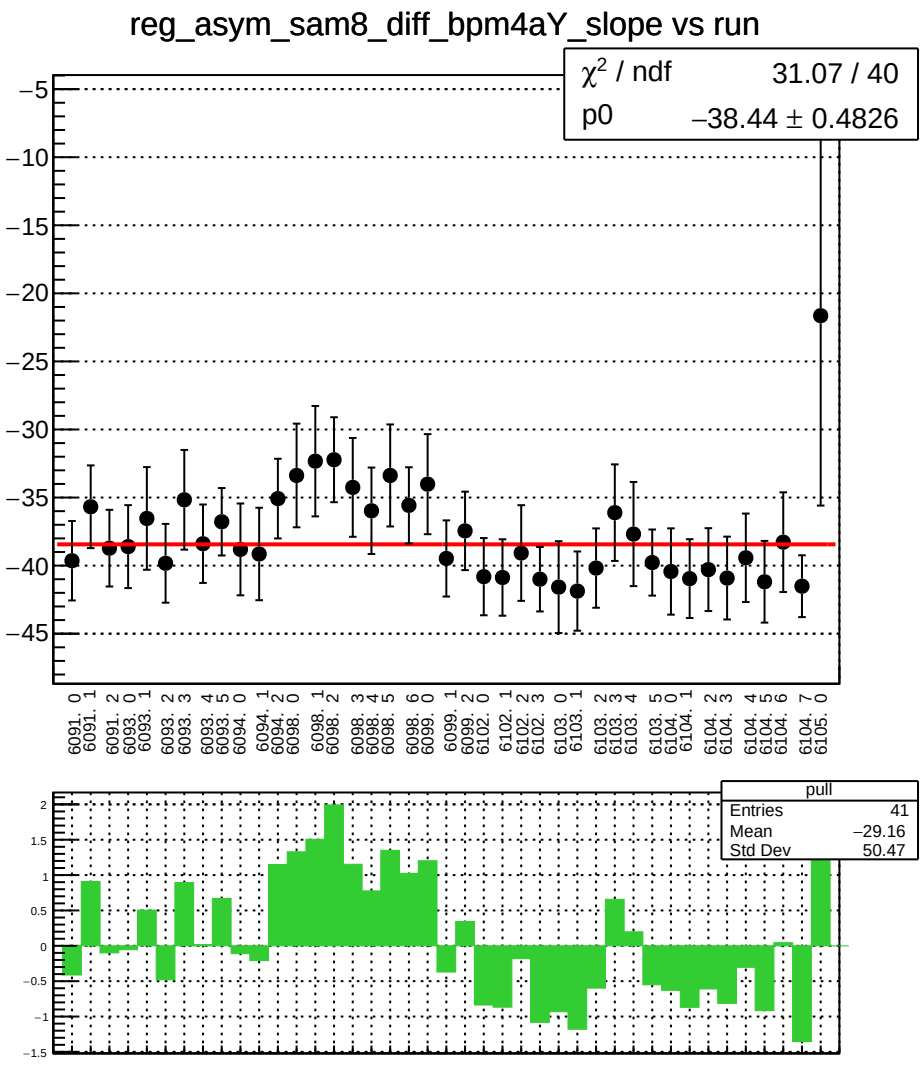

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 20.91 / 40
p0 −23.8 ± 0.5668
−5
−10
−15
−20
−25
−30
−35
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 4736
Std Dev 4715
1.5
1
0.5
0
−0.5
−1
−1.5

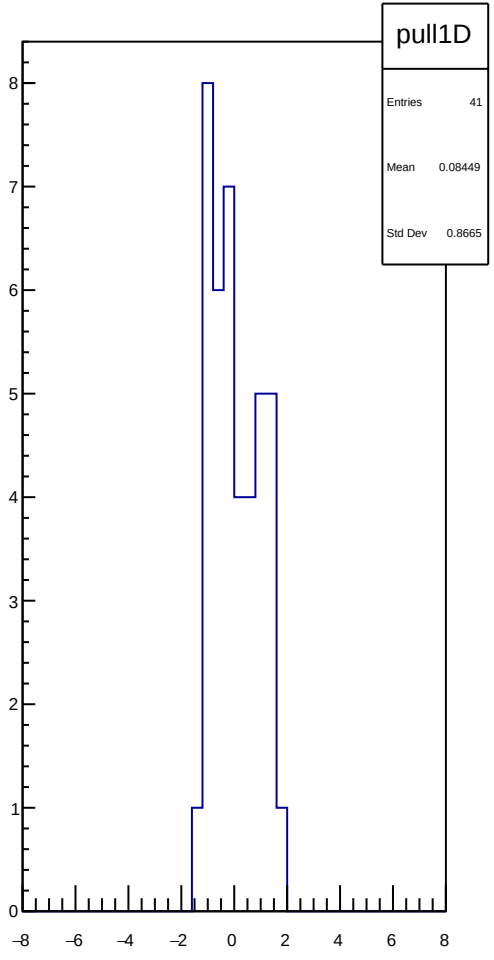

pull1D
Entries 41
Mean 0.001491
Std Dev 0.7141
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

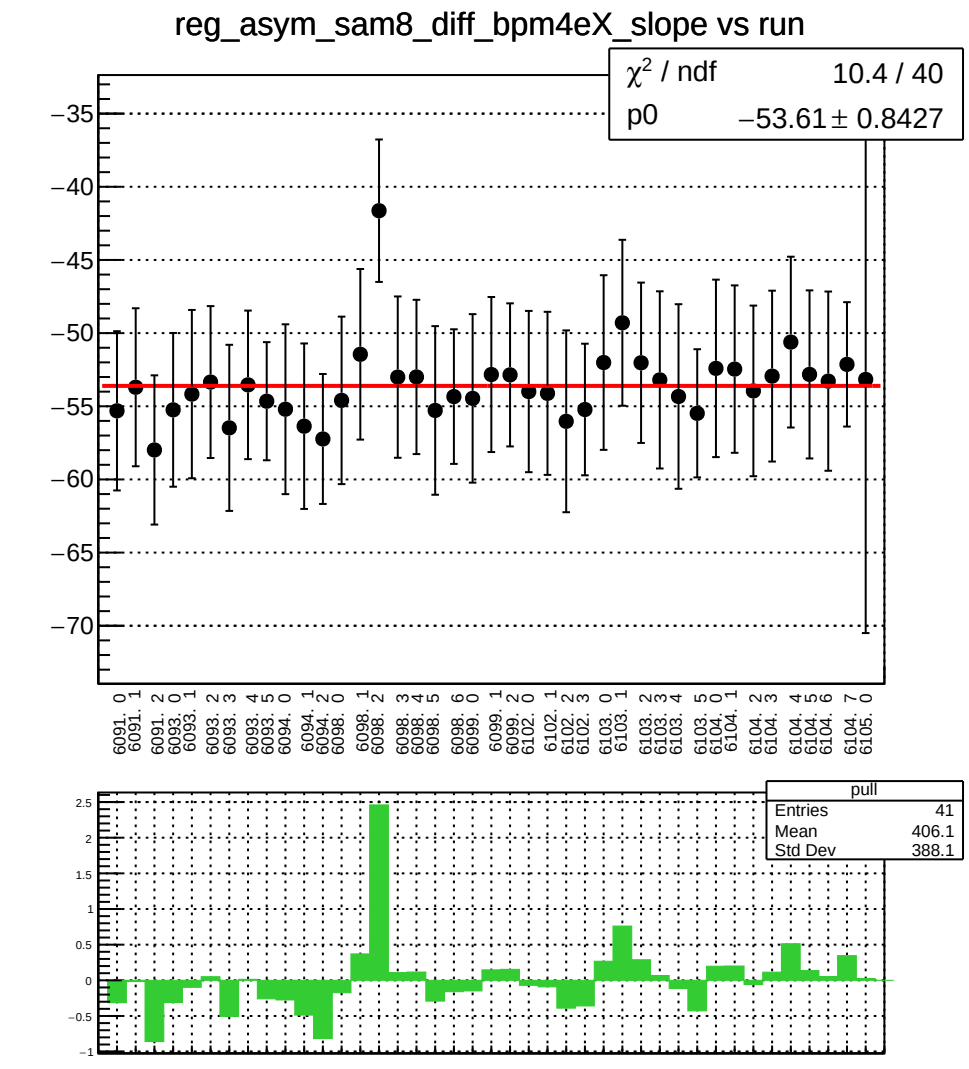

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 19.24 / 40
p0 −0.837 ± 0.03976
0.5
0
−0.5
−1
−1.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 5.941e+04
Std Dev 5.939e+04
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −7.128e−05
Std Dev 0.685
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

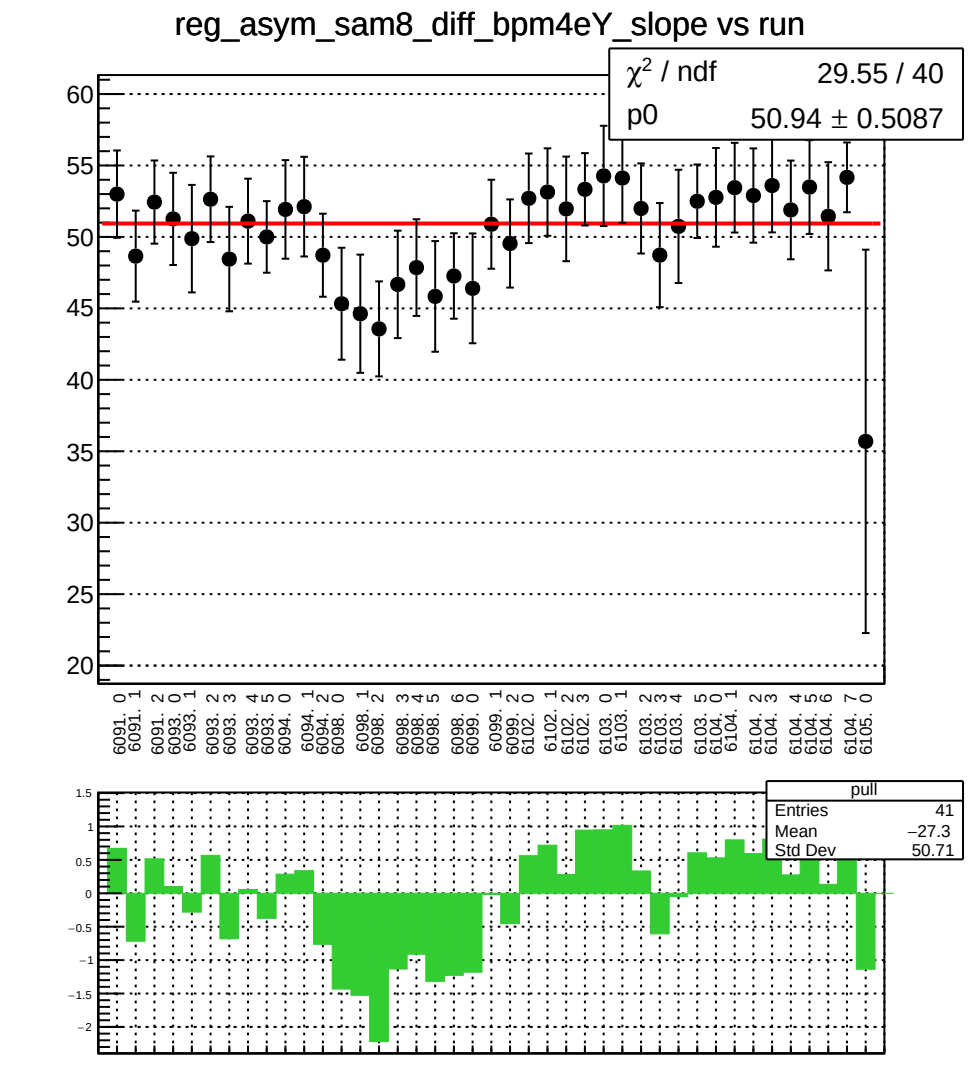

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 9.535 / 40
p0 20.76 ± 0.7231
pull
Entries 41
Mean 449.3
Std Dev 429.2

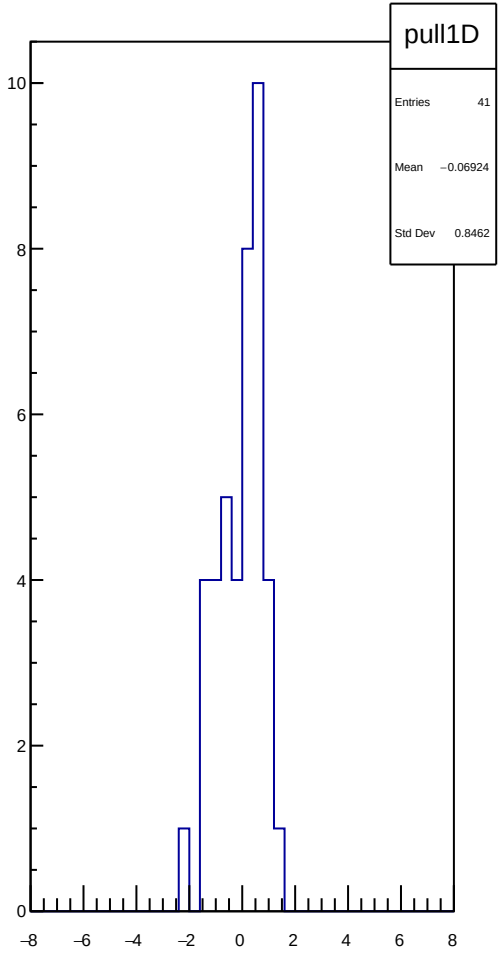

pull1D
Entries 41
Mean −0.002942
Std Dev 0.4822

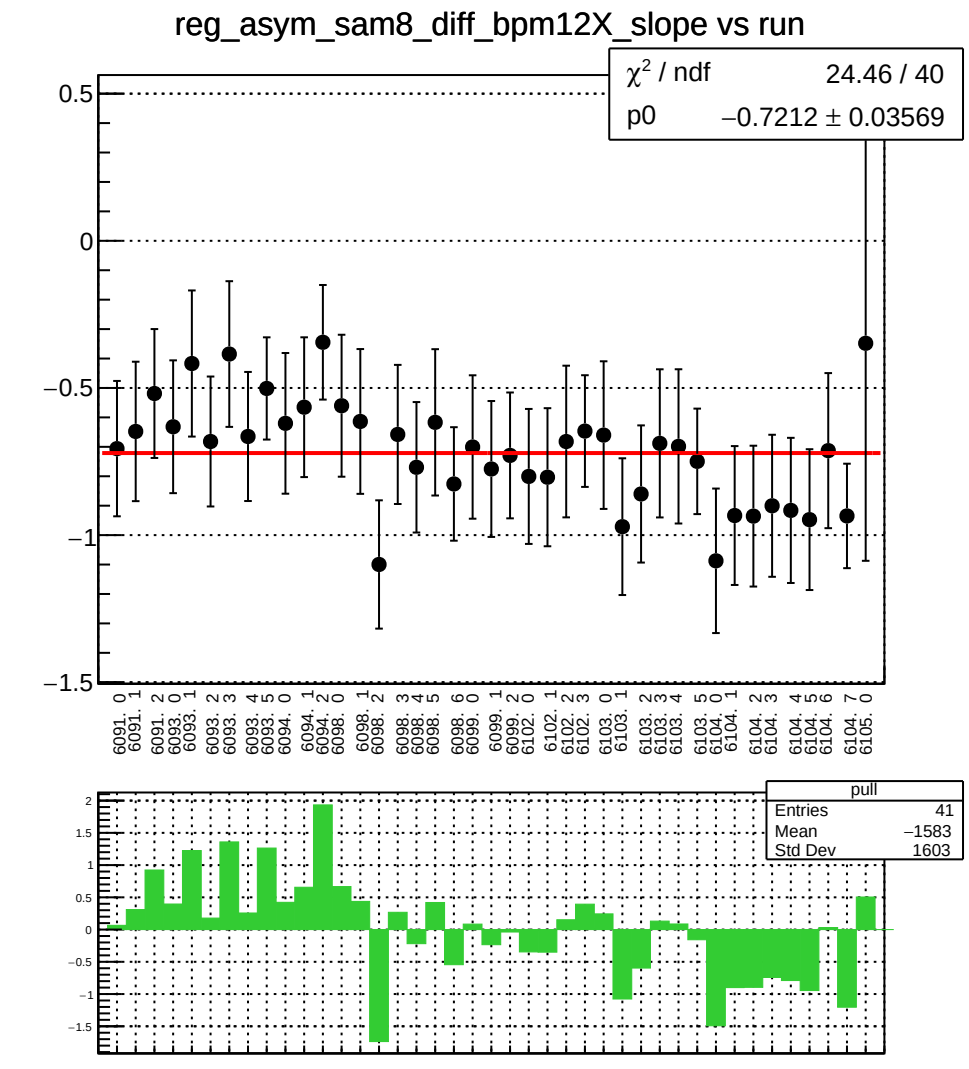

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 31.07 / 40
p0 −38.44 ± 0.4826
pull
Entries 41
Mean −29.16
Std Dev 50.47

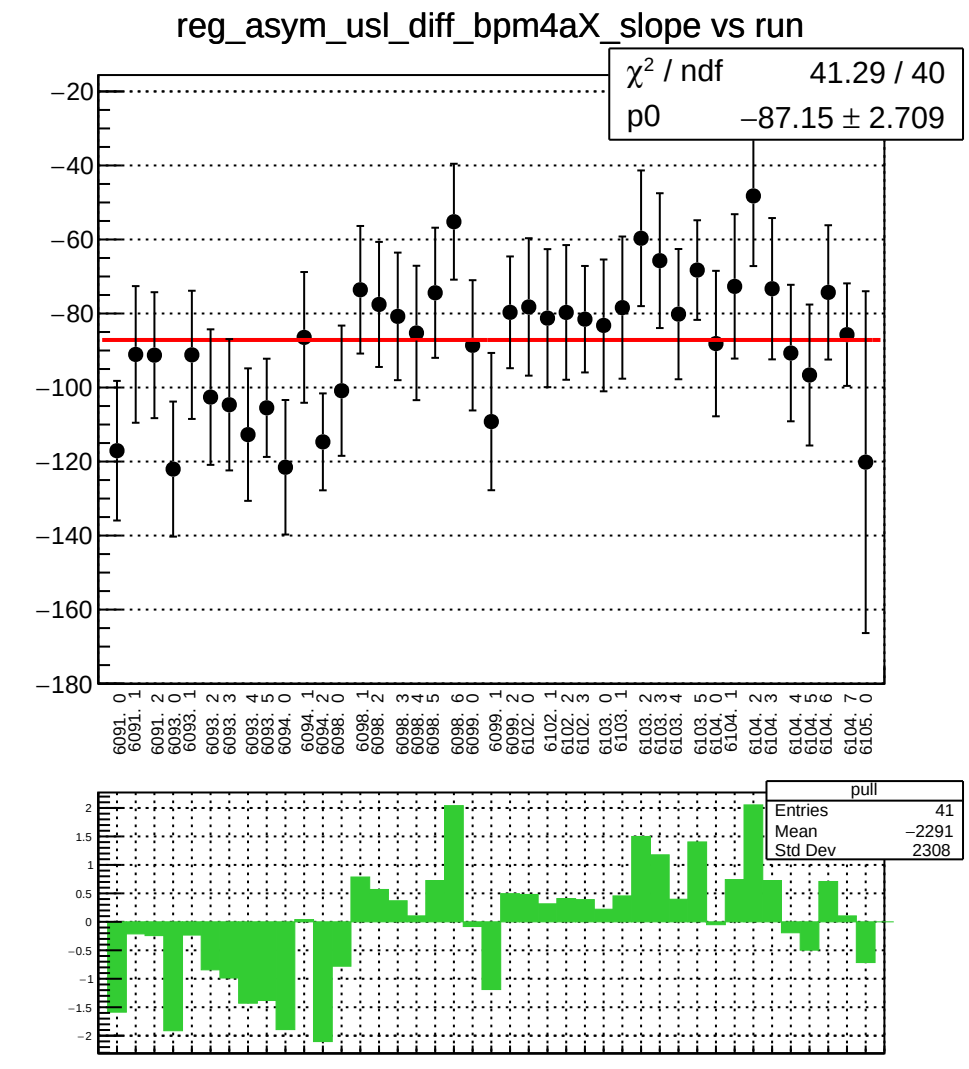

pull1D
Entries 41
Mean 0.08449
Std Dev 0.8665

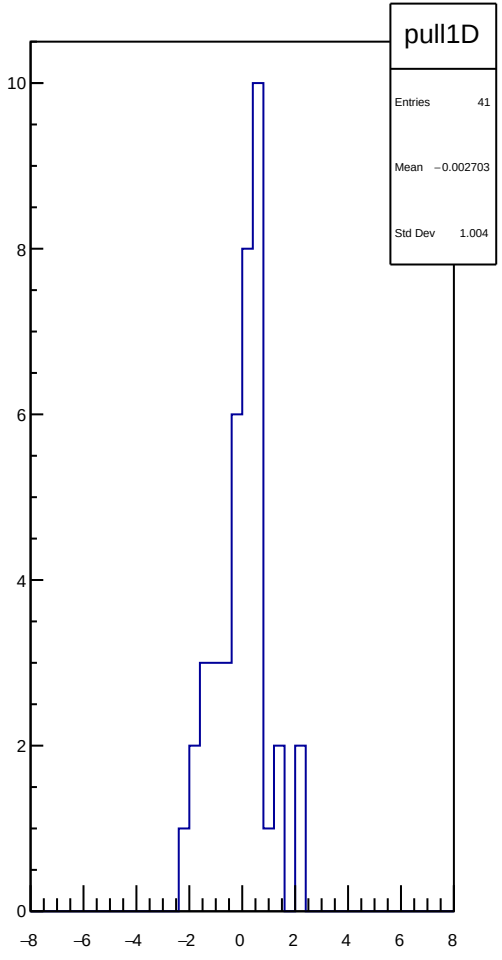

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 10.4 / 40
p0 −53.61 ± 0.8427
−35
−40
−45
−50
−55
−60
−65
−70
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 406.1
Std Dev 388.1
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.003958
Std Dev 0.5035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

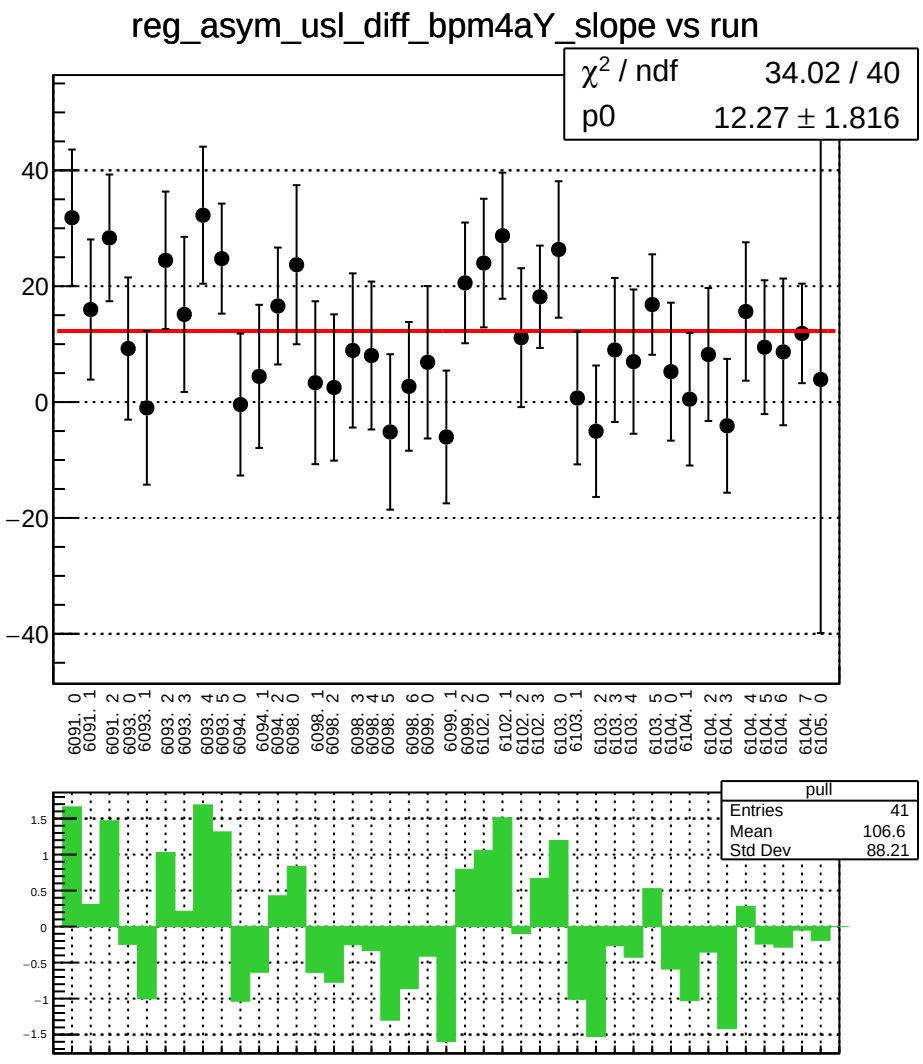

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 29.55 / 40
p0 50.94 ± 0.5087
pull
Entries 41
Mean −27.3
Std Dev 50.71

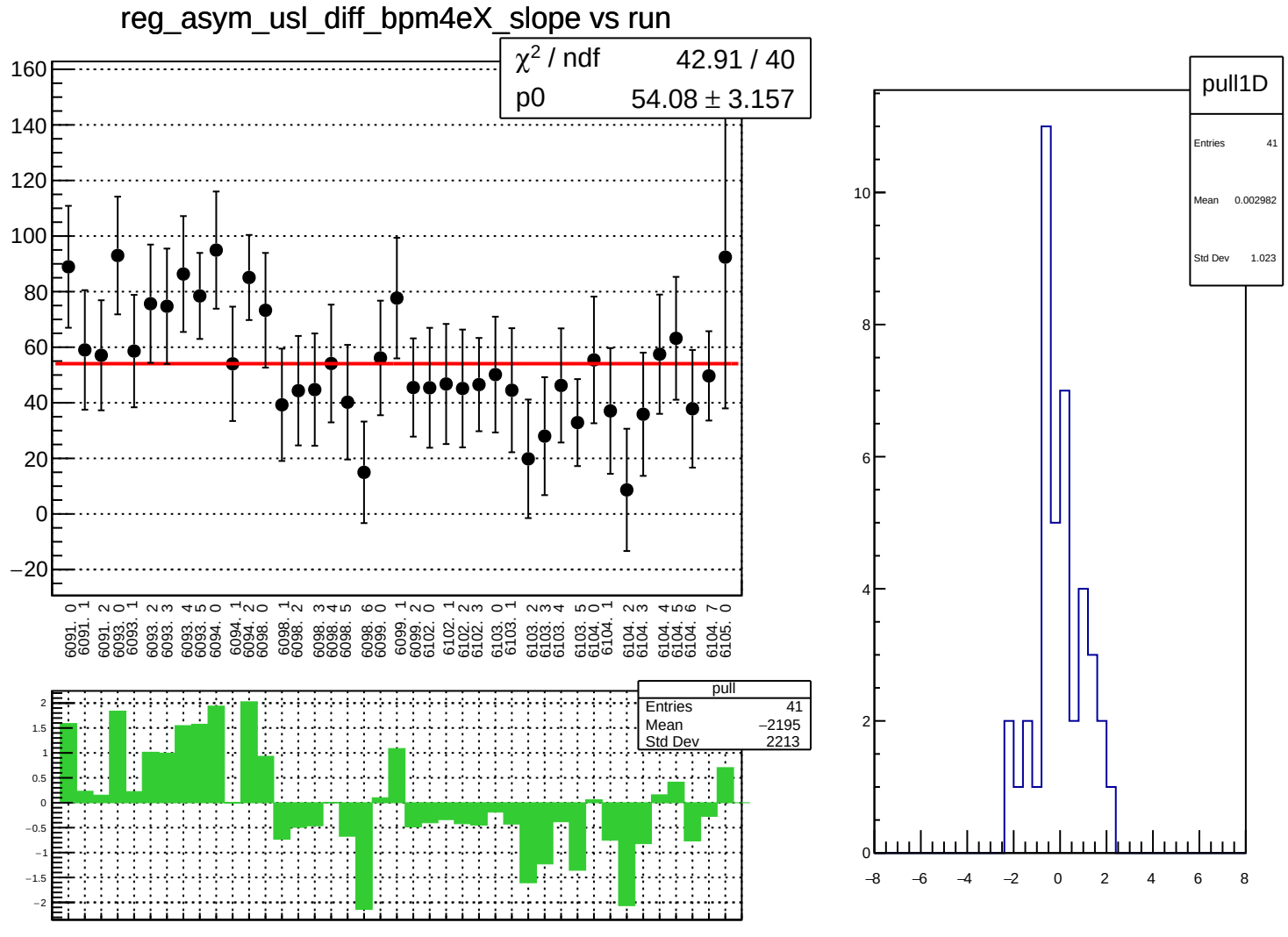

pull1D
Entries 41
Mean −0.06924
Std Dev 0.8462

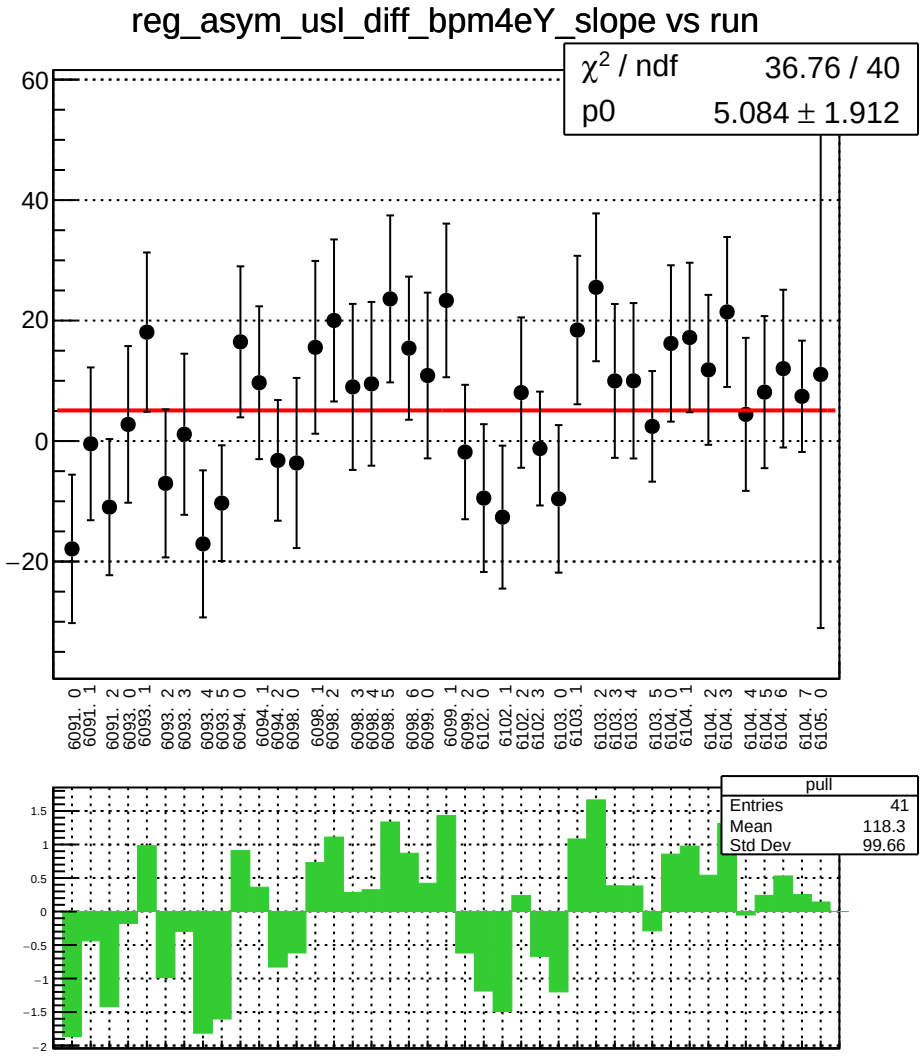

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 24.46 / 40
p0 −0.7212 ± 0.03569
0.5
0
−0.5
−1
−1.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1583
Std Dev 1603
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.003371
Std Dev 0.7724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

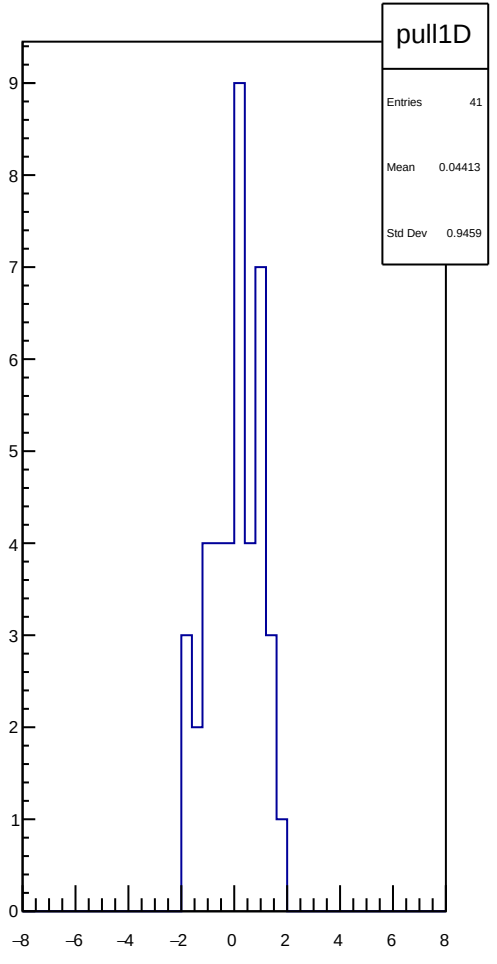

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 41.29 / 40
p0 −87.15 ± 2.709
pull
Entries 41
Mean −2291
Std Dev 2308

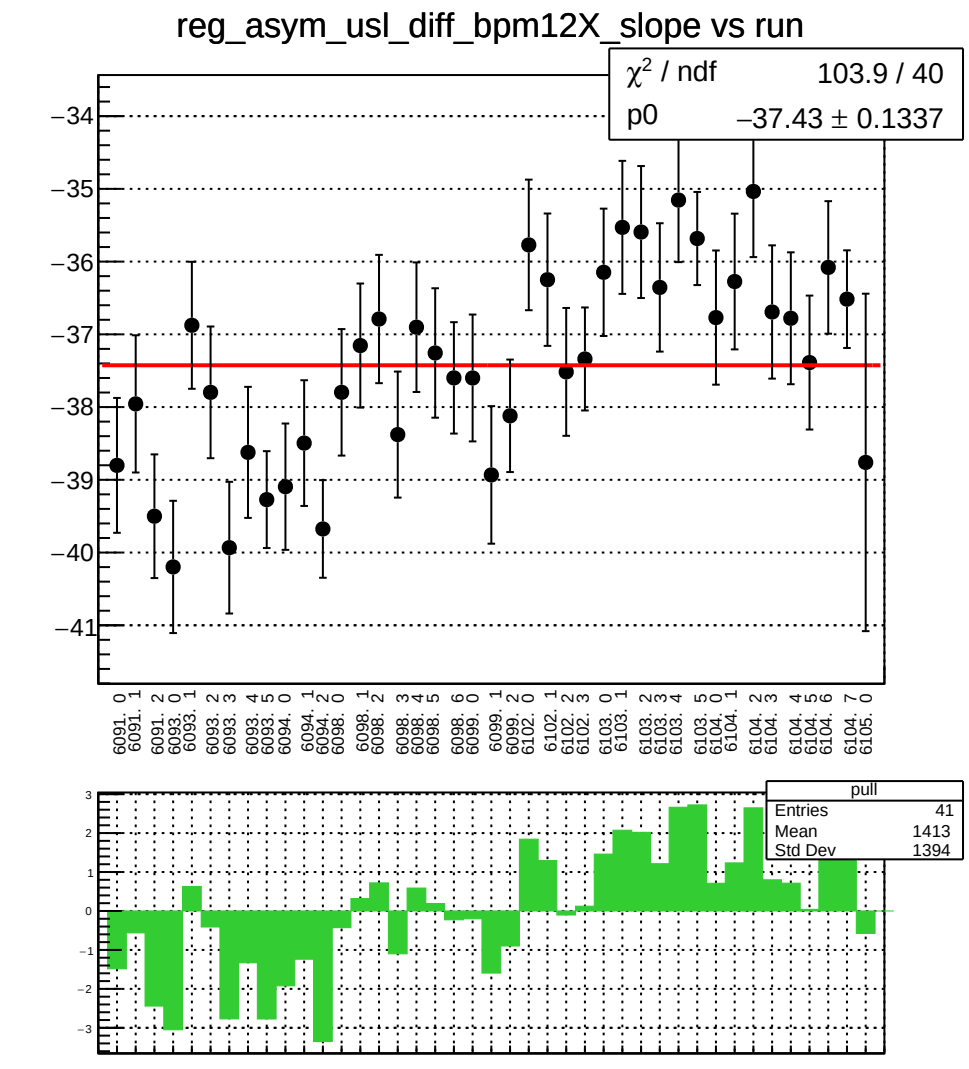

pull1D
Entries 41
Mean −0.002703
Std Dev 1.004

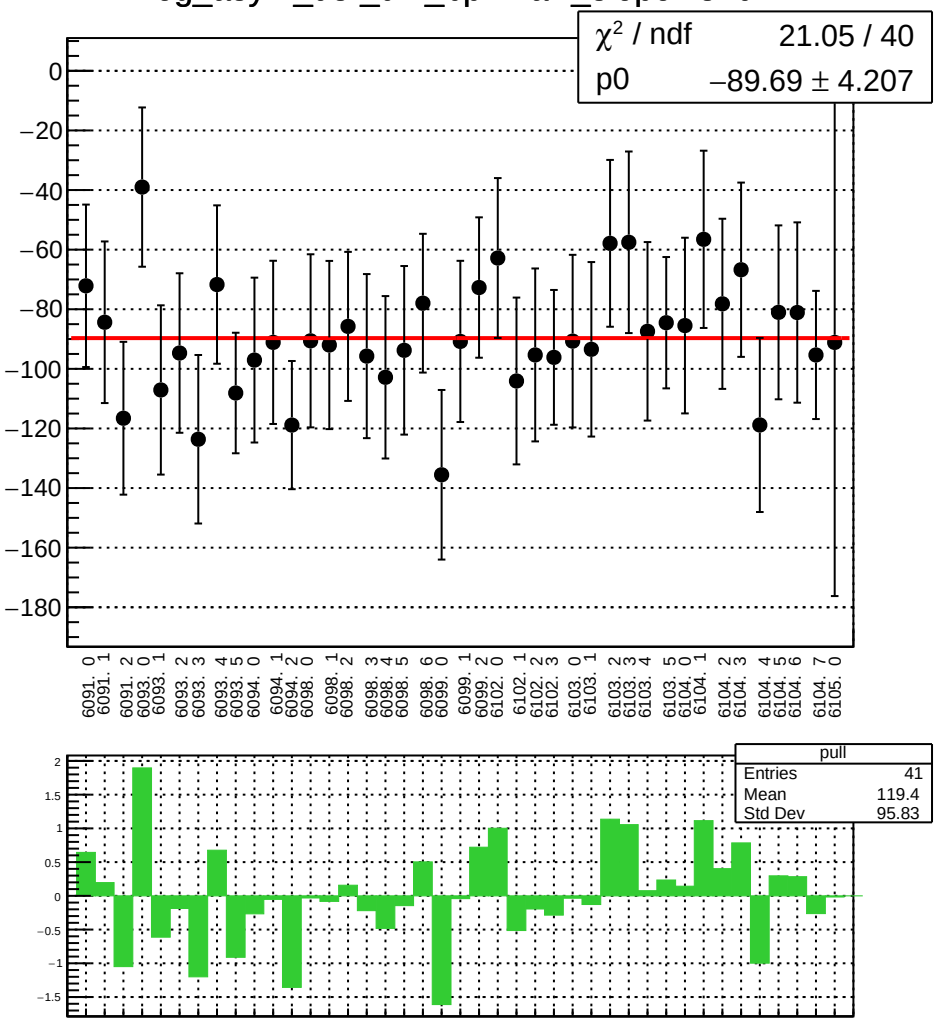

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 34.02 / 40
p0 12.27 ± 1.816
40
20
0
−20
−40
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 106.6
Std Dev 88.21
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.03831
Std Dev 0.9102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

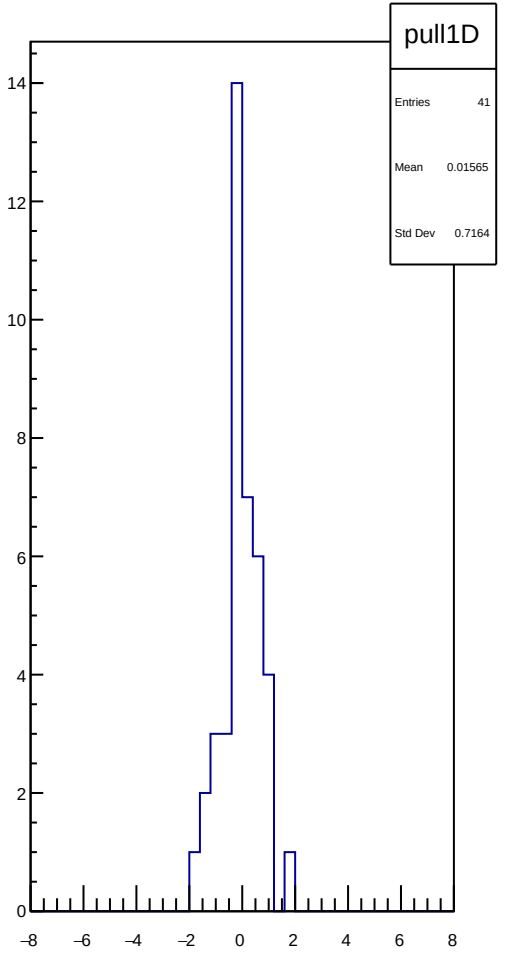

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 42.91 / 40
p0 54.08 ± 3.157
160
140
120
100
80
60
40
20
0
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −2195
Std Dev 2213
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.002982
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

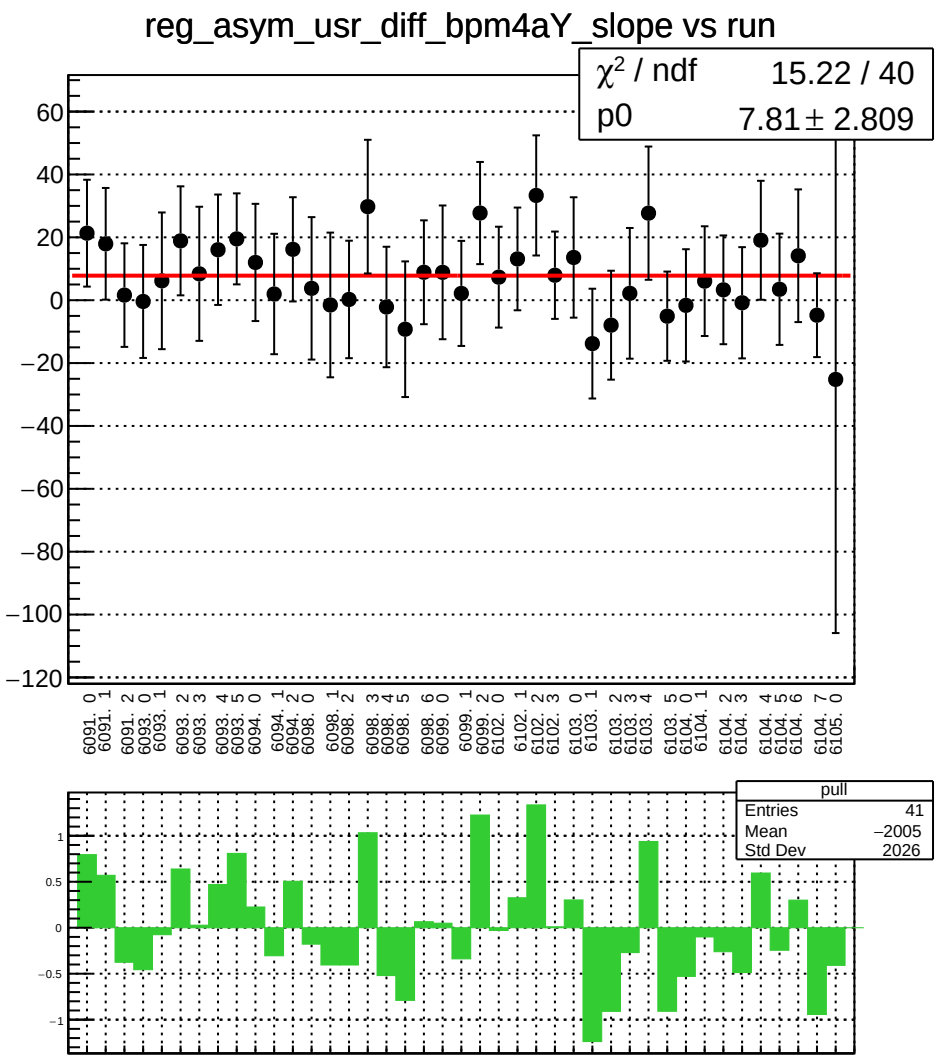

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 36.76 / 40
p0 5.084 ± 1.912
pull
Entries 41
Mean 118.3
Std Dev 99.66

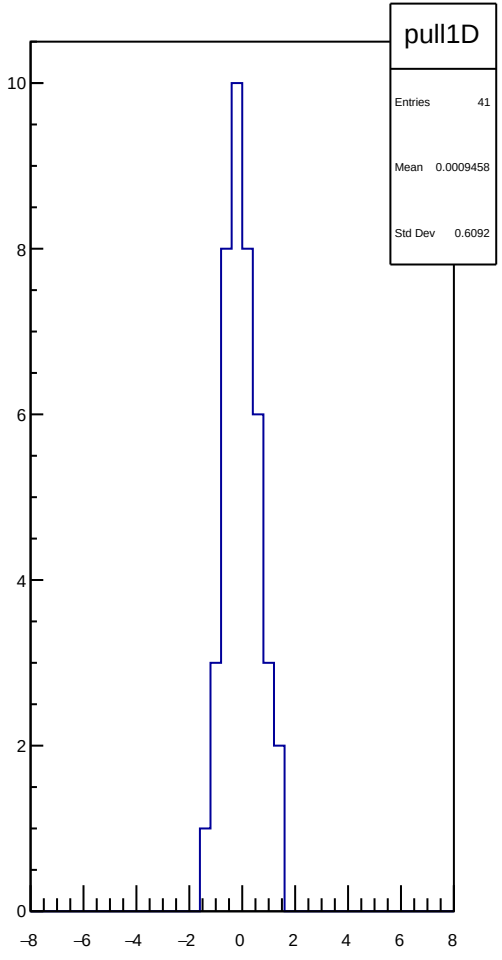

pull1D
Entries 41
Mean 0.04413
Std Dev 0.9459

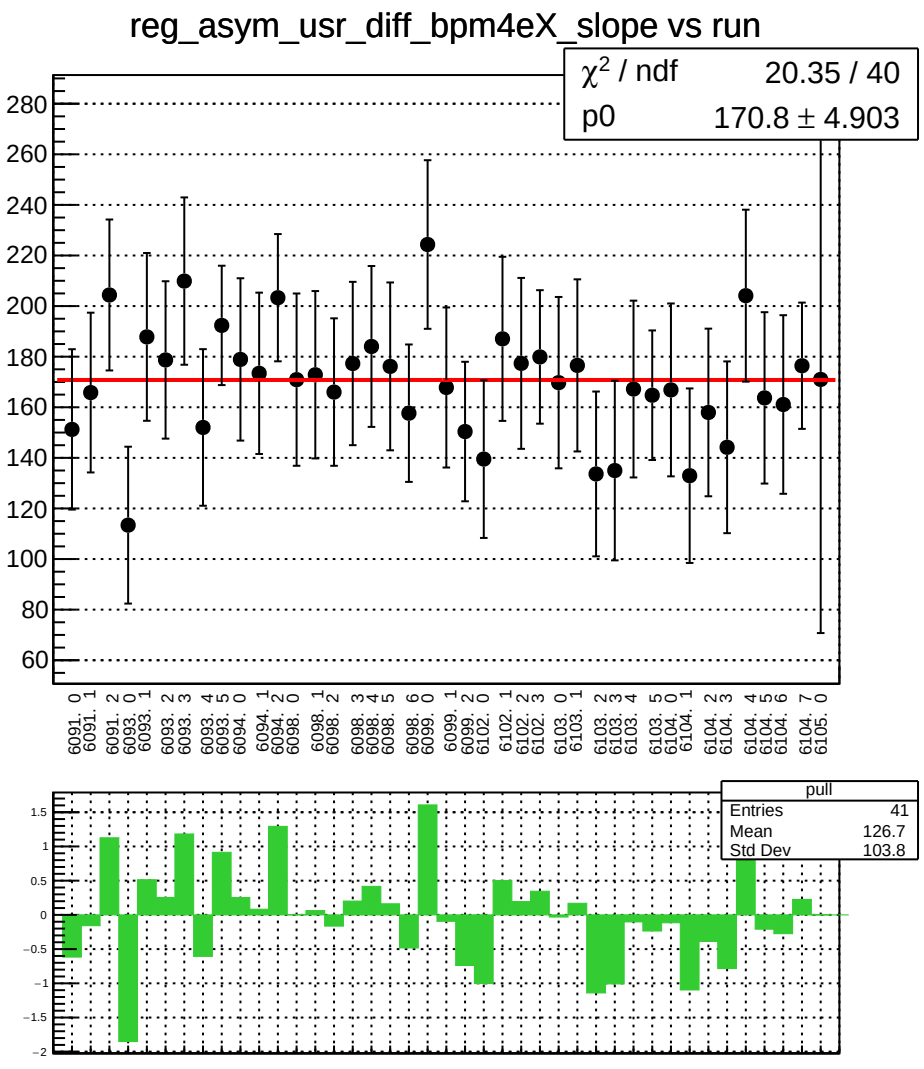

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 103.9 / 40
p0 −37.43 ± 0.1337
−34
−35
−36
−37
−38
−39
−40
−41
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 1413
Std Dev 1394
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.009206
Std Dev 1.592
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

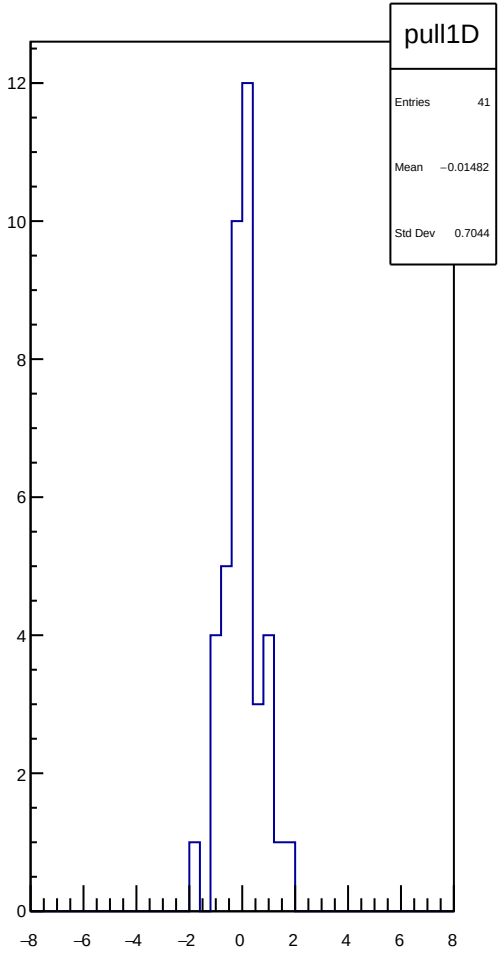

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 21.05 / 40
p0 −89.69 ± 4.207
pull
Entries 41
Mean 119.4
Std Dev 95.83

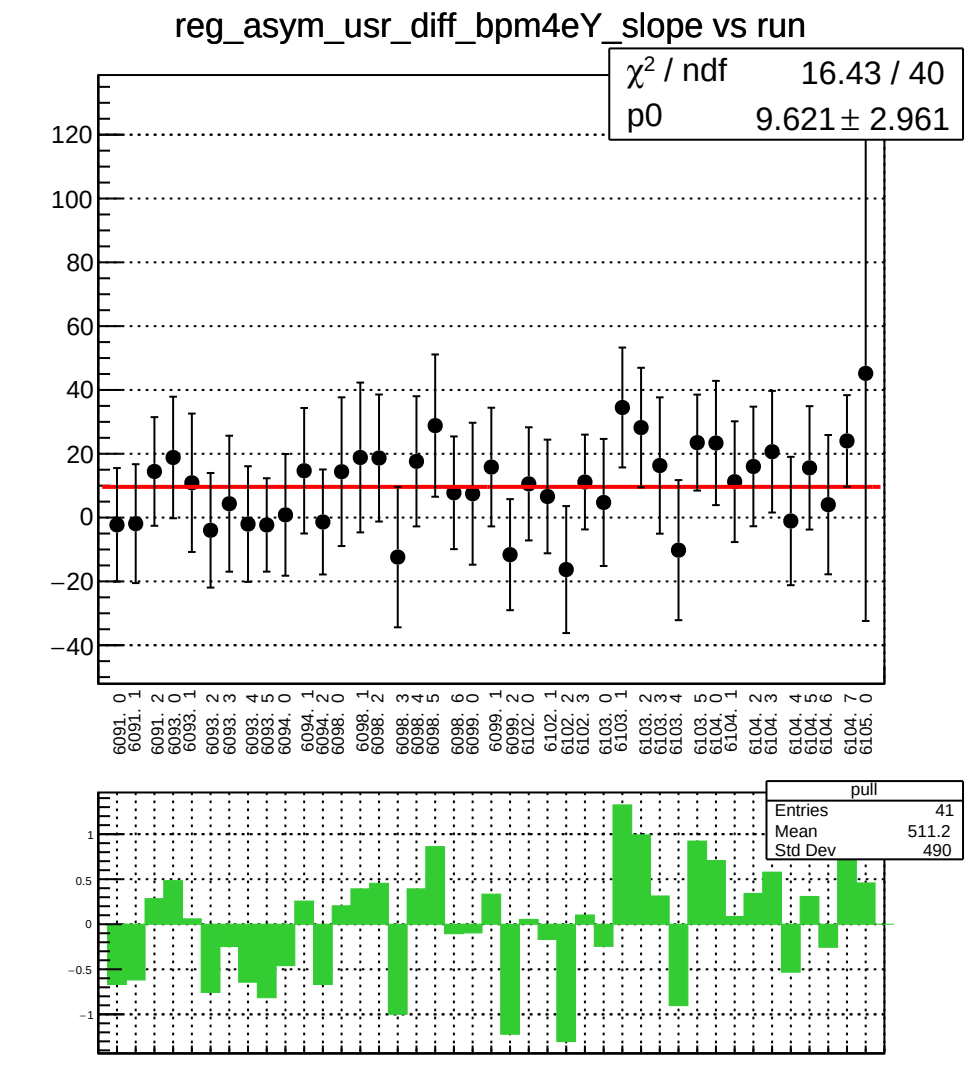

pull1D
Entries 41
Mean 0.01565
Std Dev 0.7164

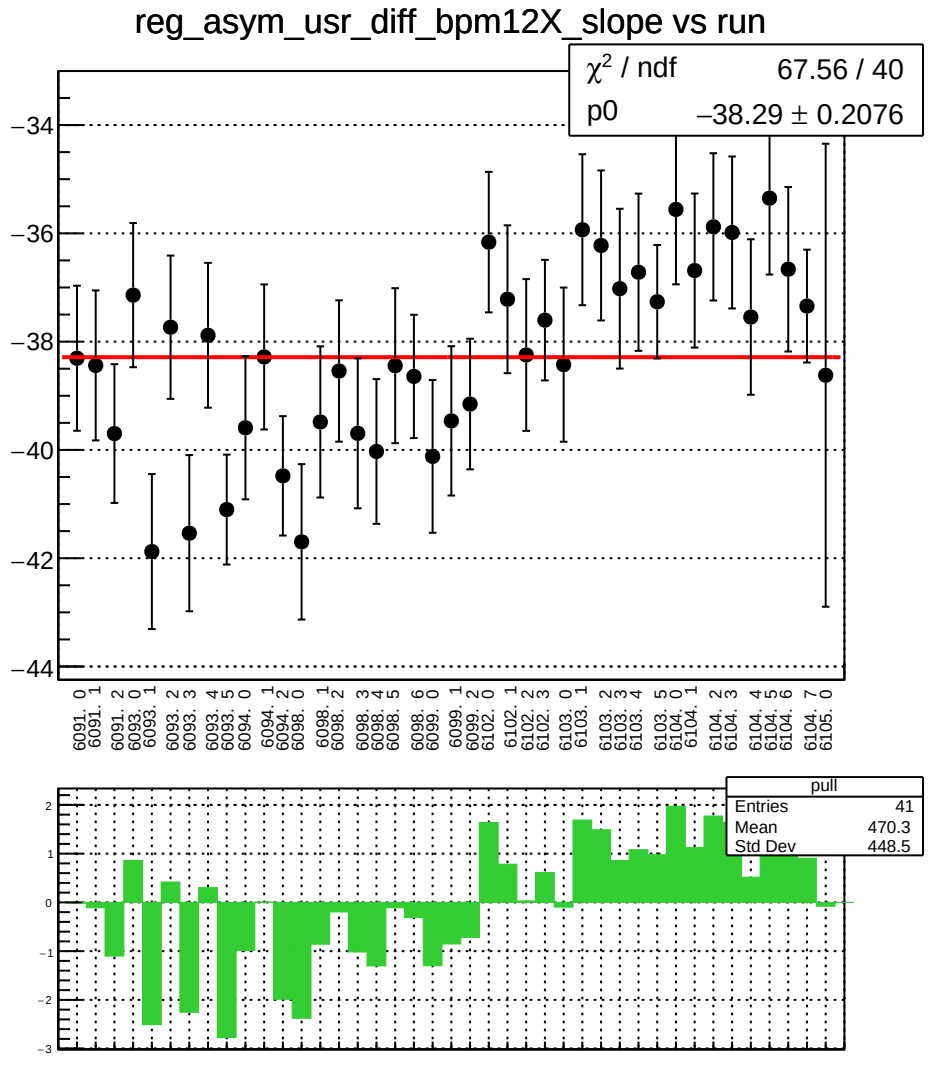

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 15.22 / 40
p0 7.81 ± 2.809
pull
Entries 41
Mean −2005
Std Dev 2026

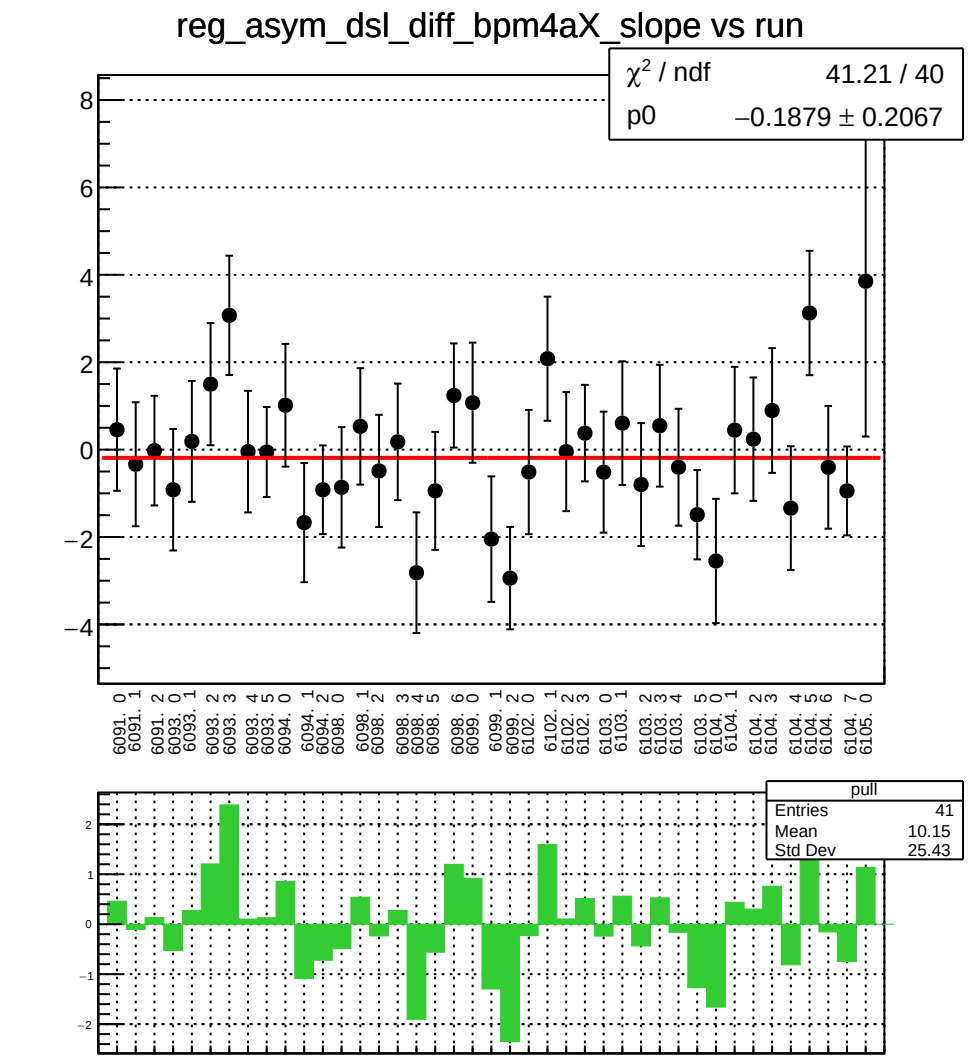

pull1D
Entries 41
Mean 0.0009458
Std Dev 0.6092

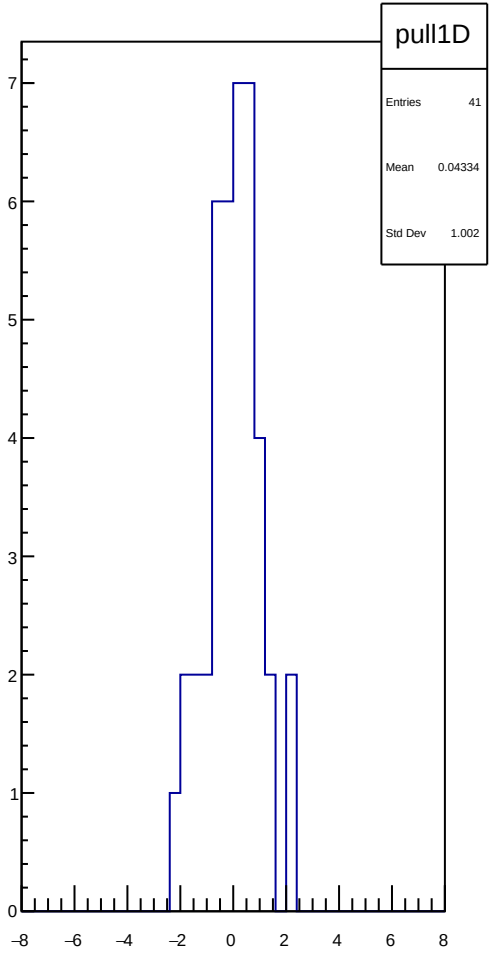

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 20.35 / 40
p0 170.8 ± 4.903
pull
Entries 41
Mean 126.7
Std Dev 103.8

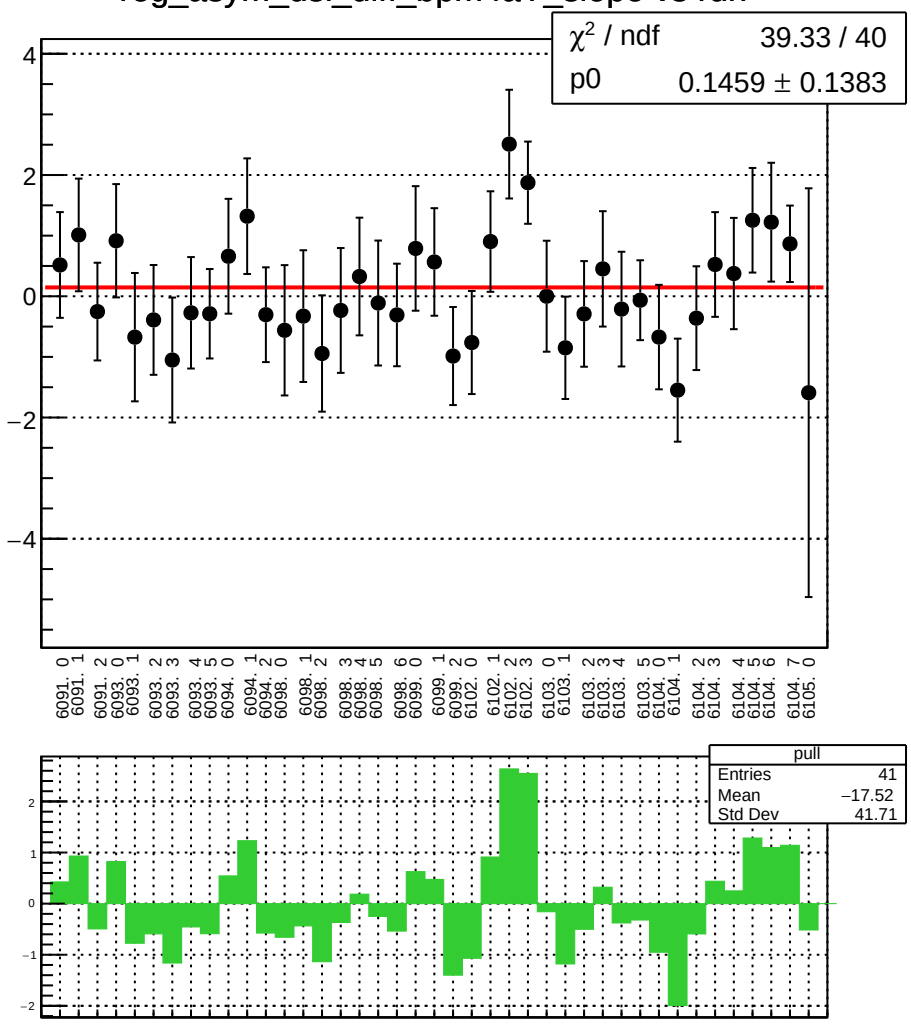

pull1D
Entries 41
Mean −0.01482
Std Dev 0.7044

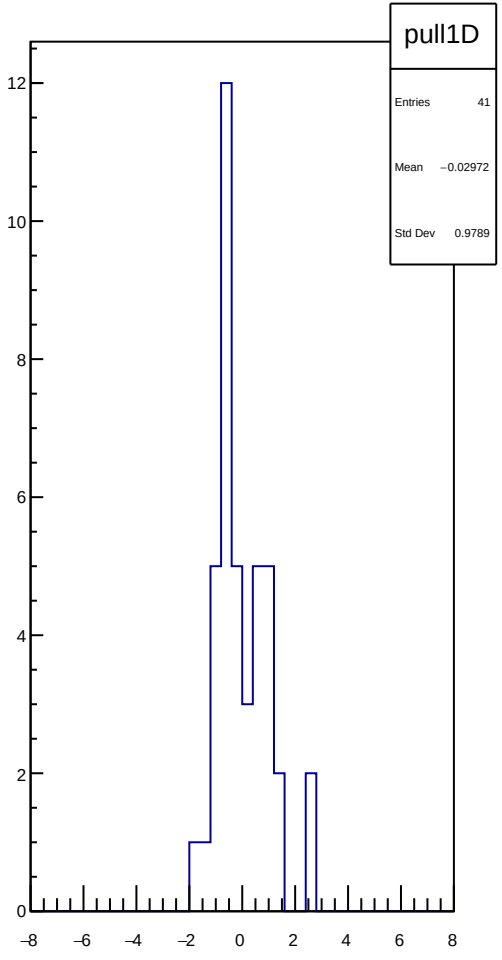

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 16.43 / 40
p0 9.621 ± 2.961
120
100
80
60
40
20
0
−20
−40
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 511.2
Std Dev 490
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.005127
Std Dev 0.6329
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

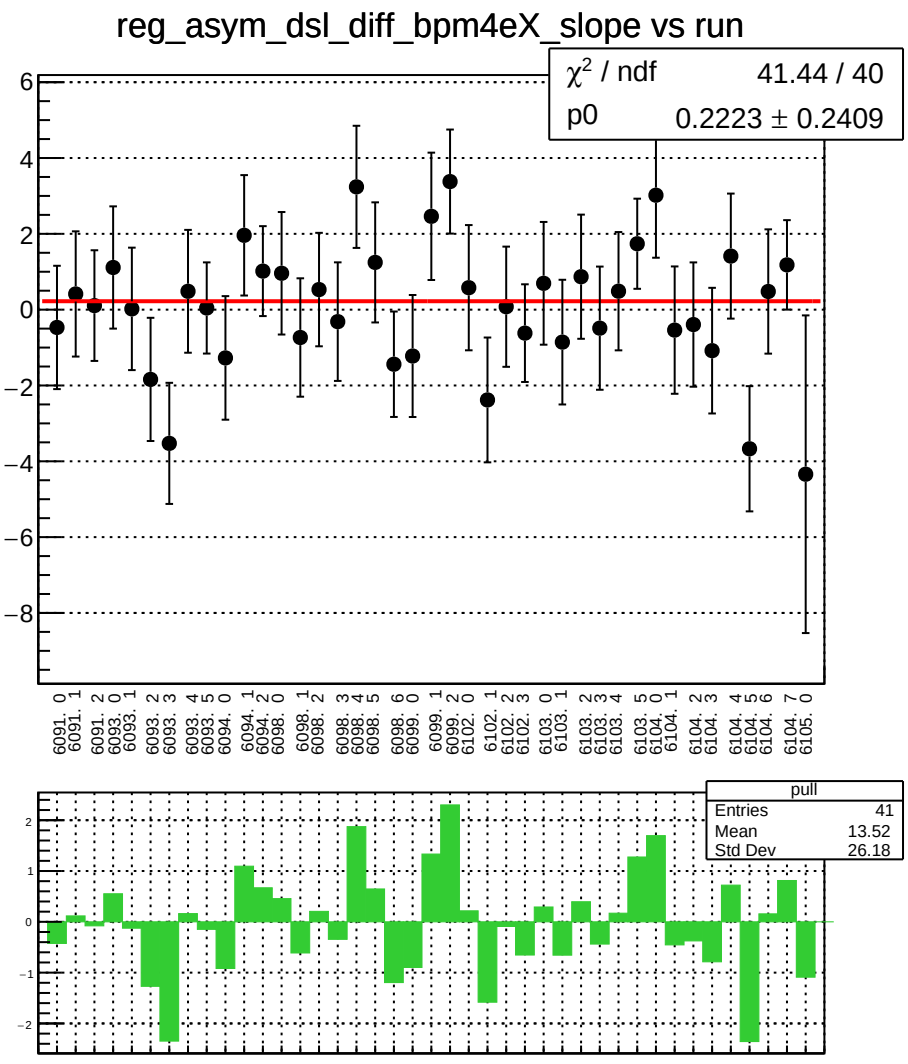

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 67.56 / 40
p0 −38.29 ± 0.2076
−34
−36
−38
−40
−42
−44
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 470.3
Std Dev 448.5
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.0215
Std Dev 1.284
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

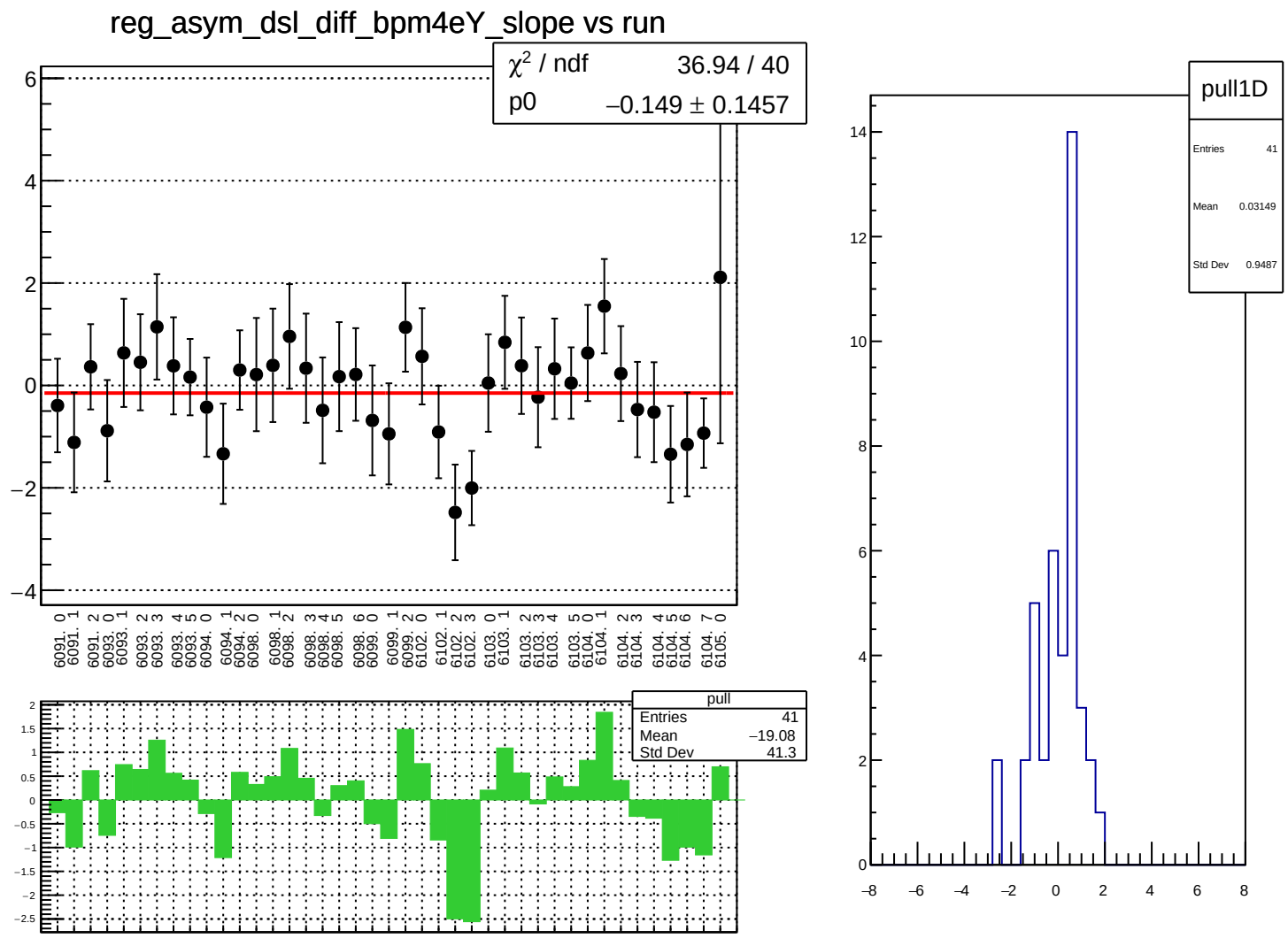

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 41.21 / 40
p0 −0.1879 ± 0.2067
pull
Entries 41
Mean 10.15
Std Dev 25.43

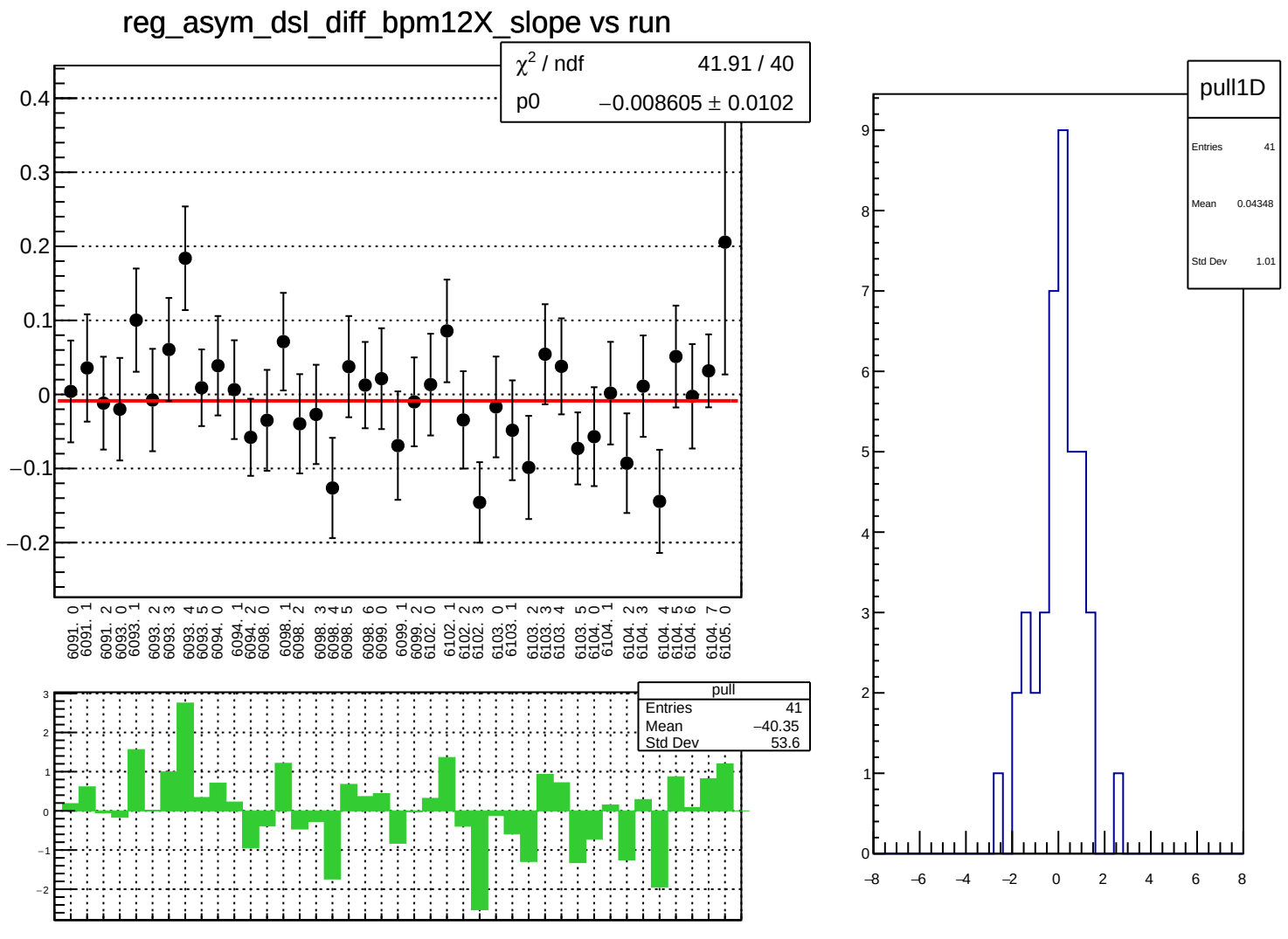

pull1D
Entries 41
Mean 0.04334
Std Dev 1.002

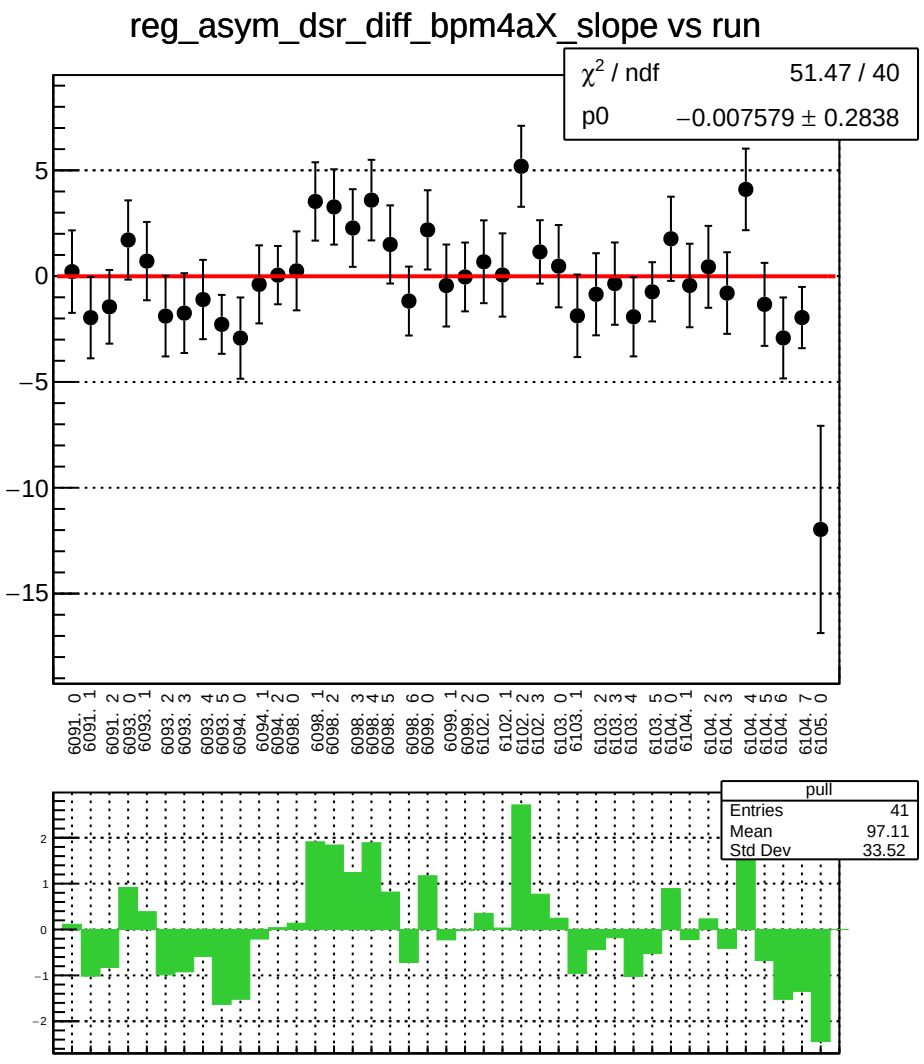

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 39.33 / 40
p0 0.1459 ± 0.1383
pull
Entries 41
Mean −17.52
Std Dev 41.71

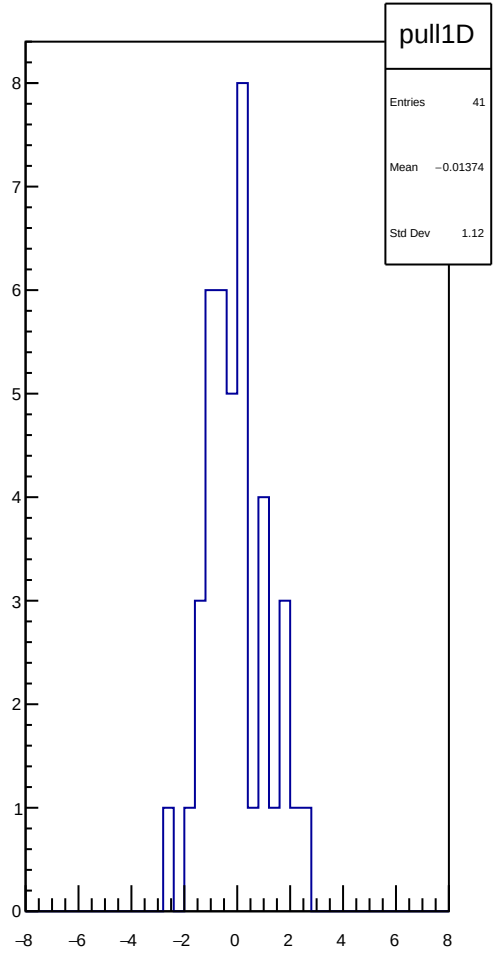

pull1D
Entries 41
Mean −0.02972
Std Dev 0.9789

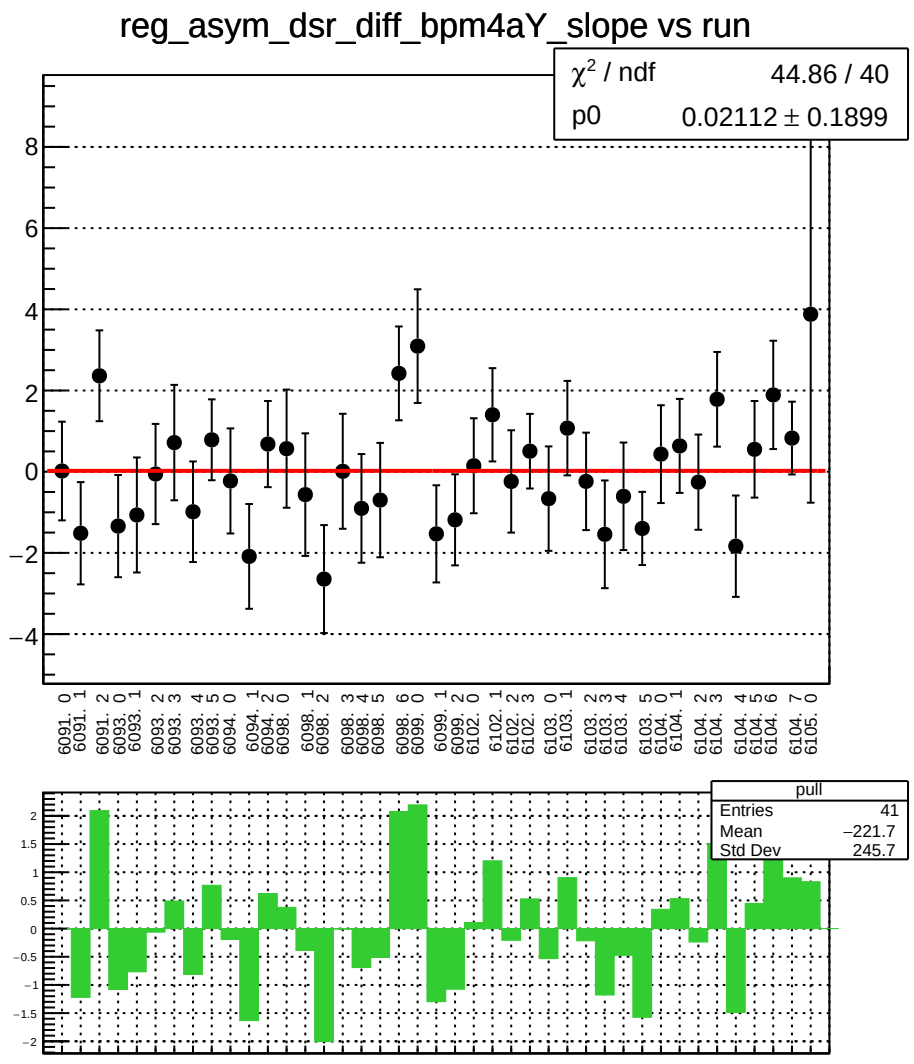

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 41.44 / 40
p0 0.2223 ± 0.2409
6
4
2
0
−2
−4
−6
−8
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 13.52
Std Dev 26.18
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.04136
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

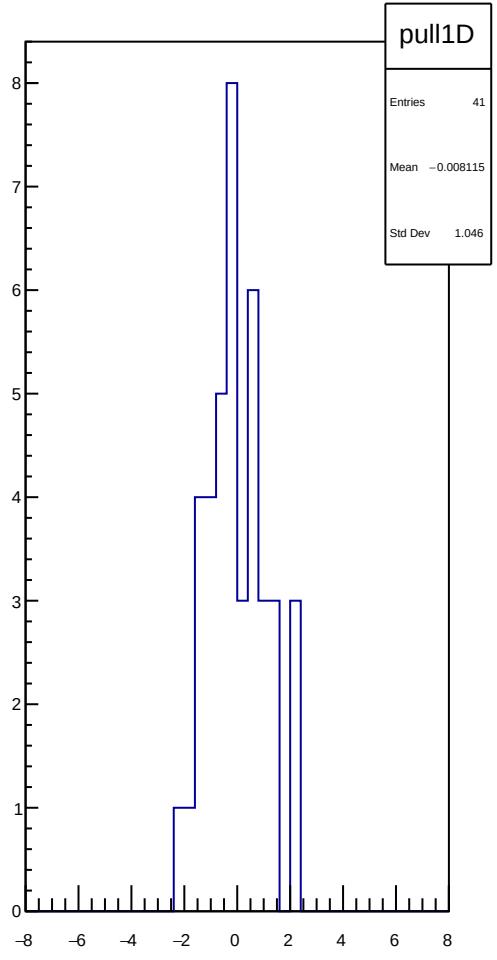

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 36.94 / 40
p0 −0.149 ± 0.1457
pull
Entries 41
Mean −19.08
Std Dev 41.3
pull1D
Entries 41
Mean 0.03149
Std Dev 0.9487

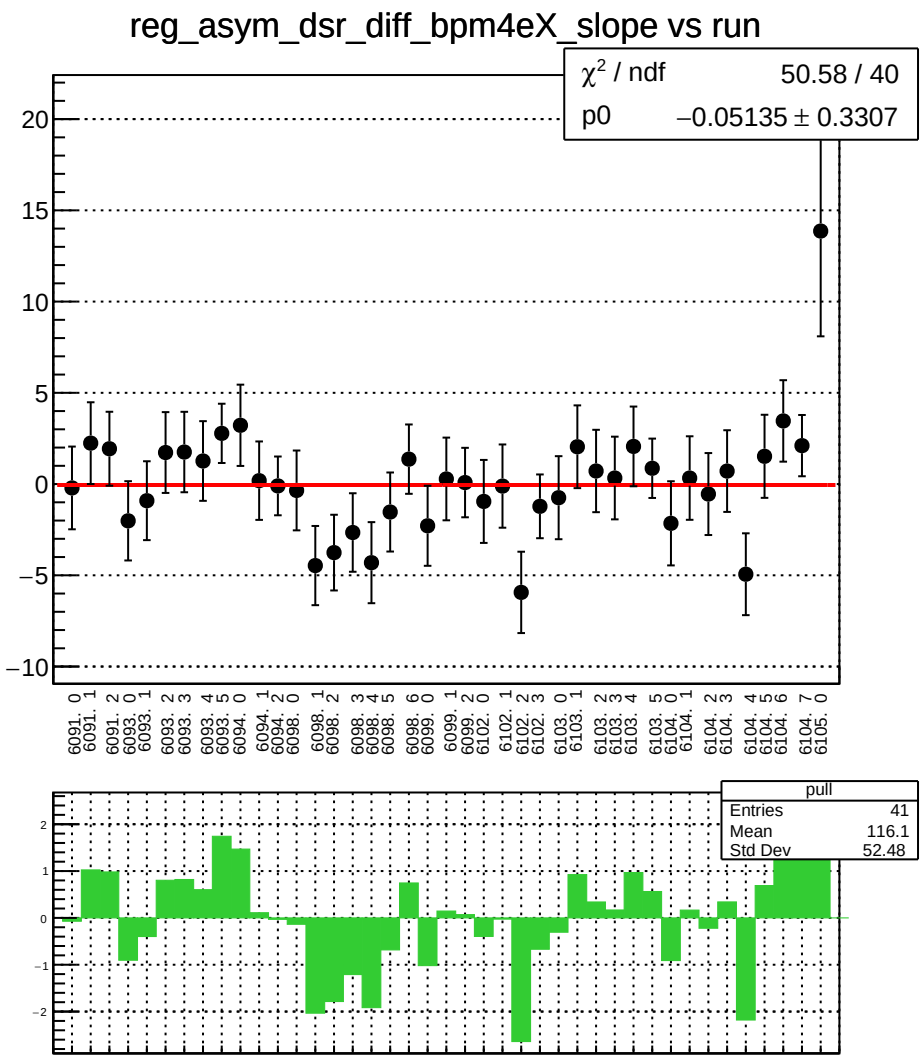

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 41.91 / 40
p0 −0.008605 ± 0.0102
pull
Entries 41
Mean −40.35
Std Dev 53.6
pull1D
Entries 41
Mean 0.04348
Std Dev 1.01

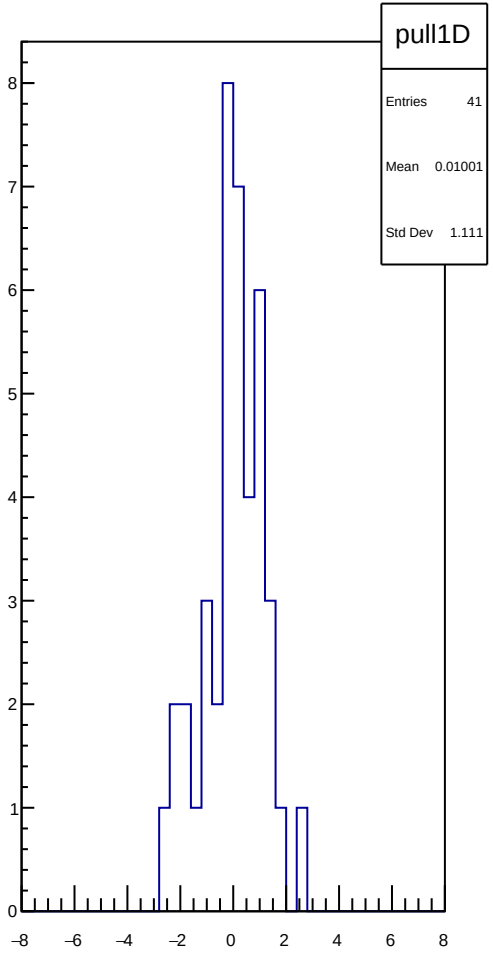

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 51.47 / 40
p0 −0.007579 ± 0.2838
pull
Entries 41
Mean 97.11
Std Dev 33.52

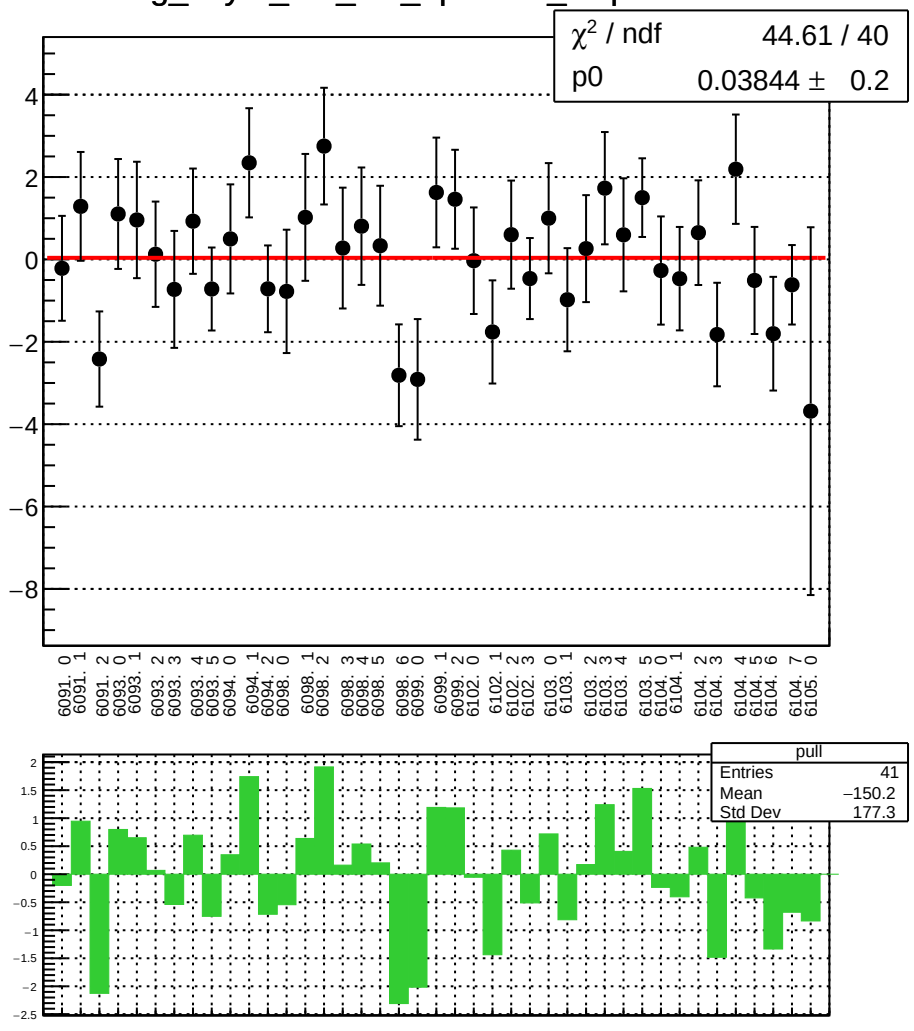

pull1D
Entries 41
Mean −0.01374
Std Dev 1.12

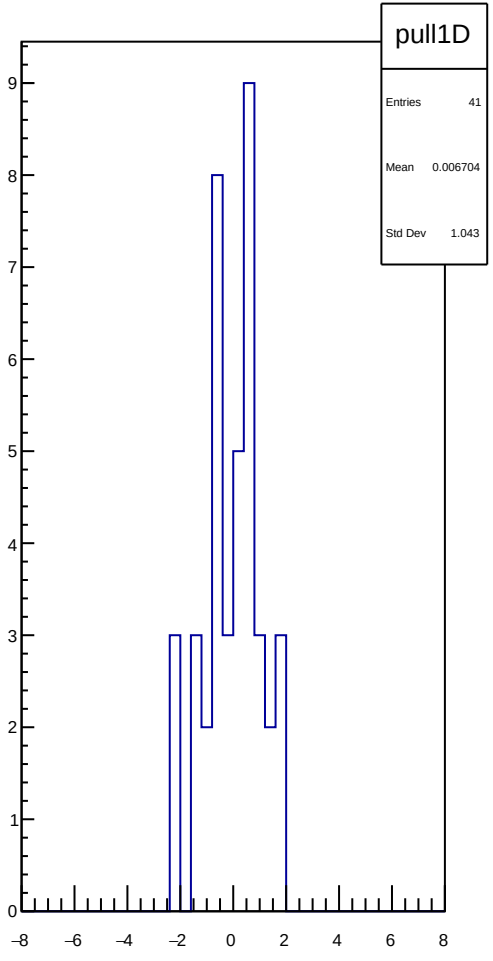

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 44.86 / 40
p0 0.02112 ± 0.1899
pull
Entries 41
Mean −221.7
Std Dev 245.7

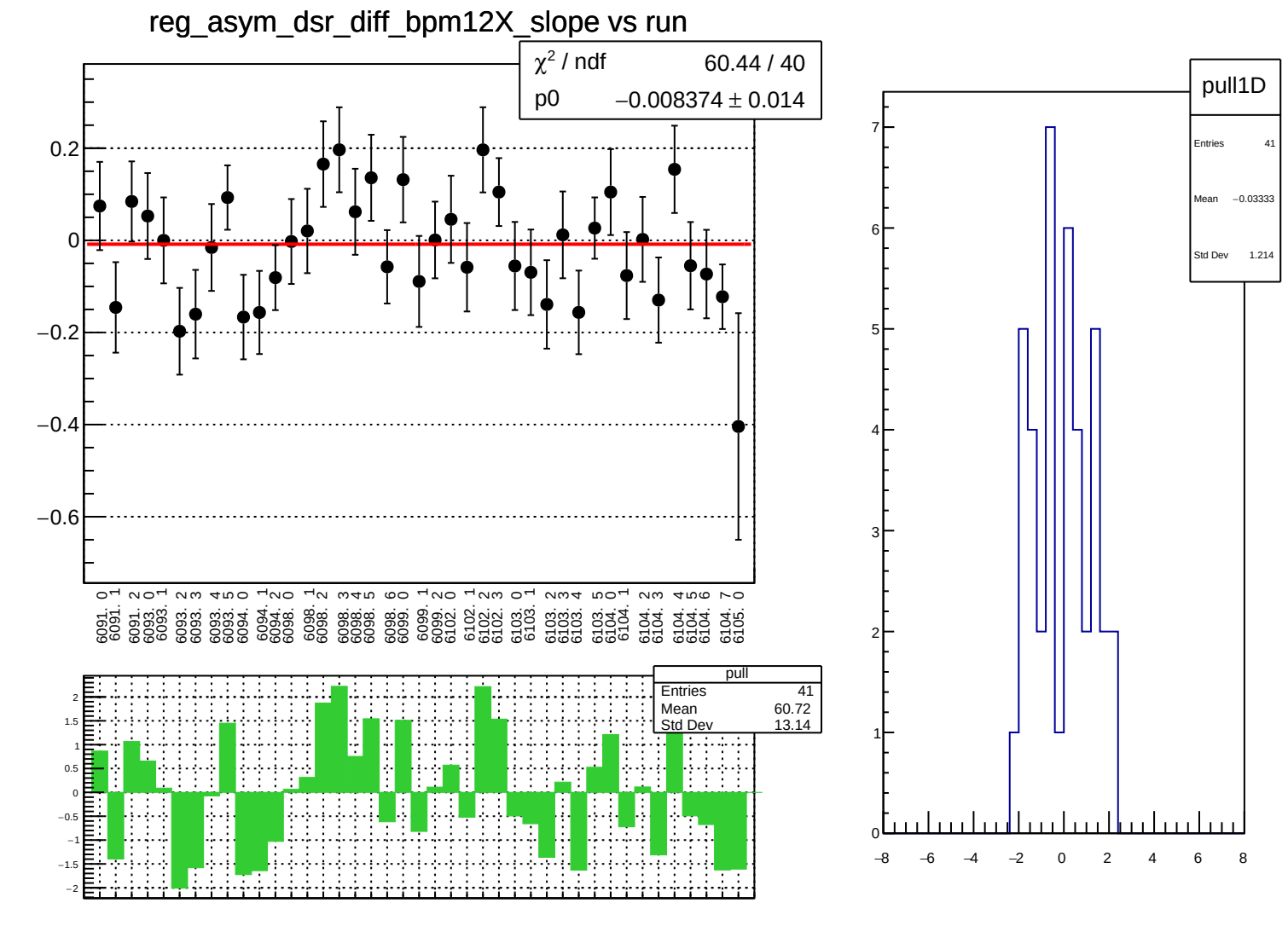

pull1D
Entries 41
Mean −0.008115
Std Dev 1.046

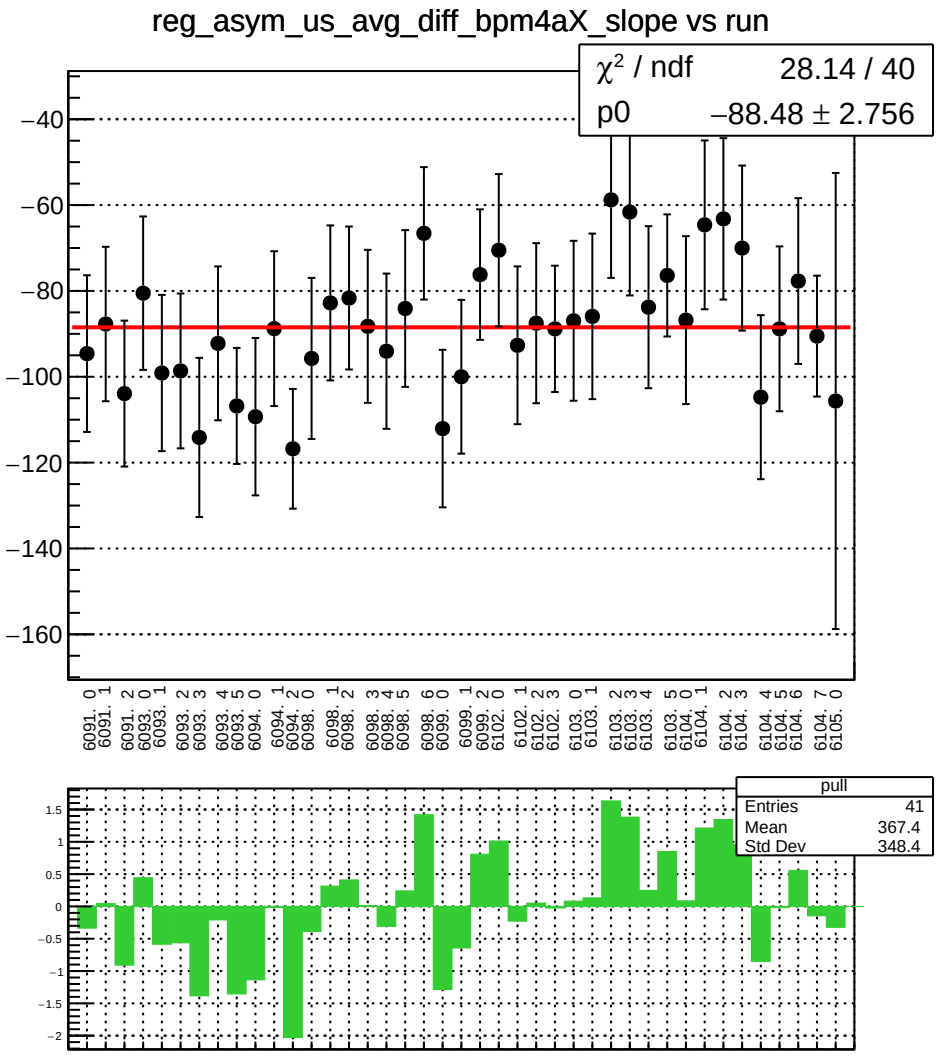

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 50.58 / 40
p0 −0.05135 ± 0.3307
pull
Entries 41
Mean 116.1
Std Dev 52.48

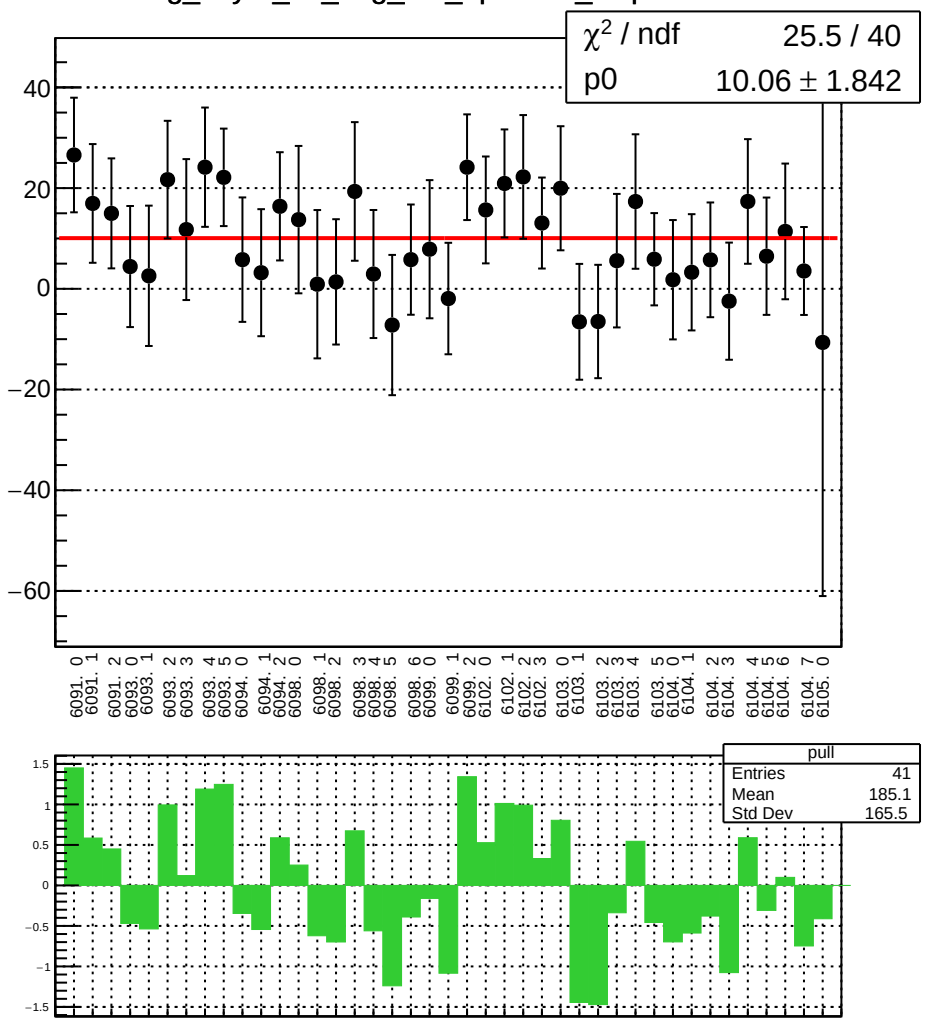

pull1D
Entries 41
Mean 0.01001
Std Dev 1.111

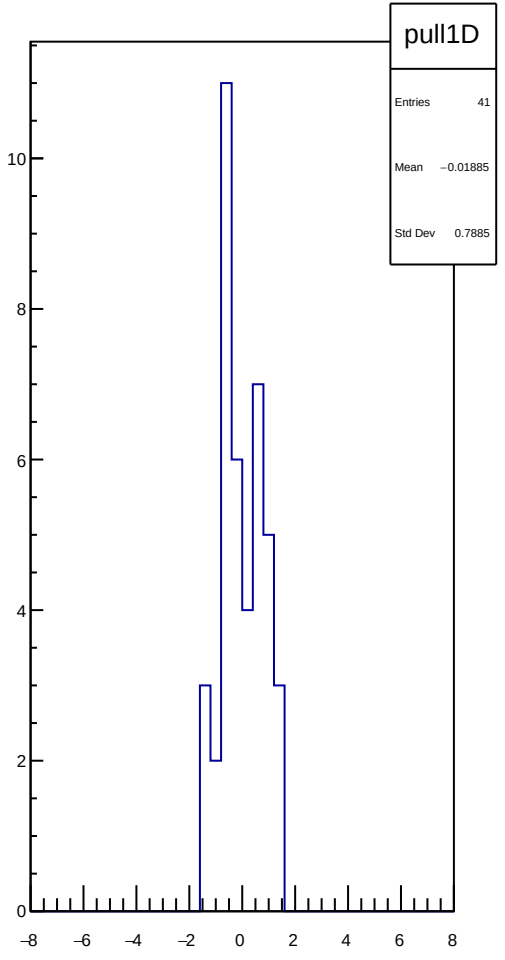

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 44.61 / 40
p0 0.03844 ± 0.2
pull
Entries 41
Mean −150.2
Std Dev 177.3

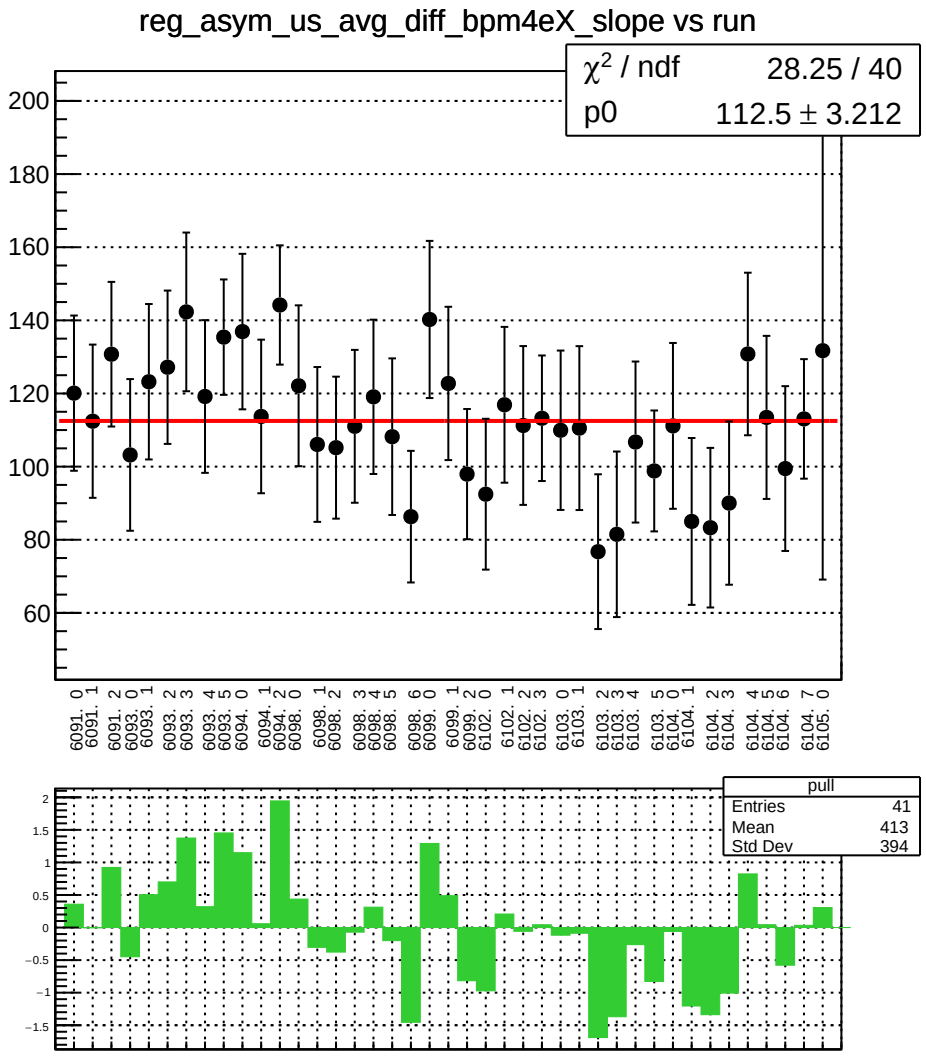

pull1D
Entries 41
Mean 0.006704
Std Dev 1.043

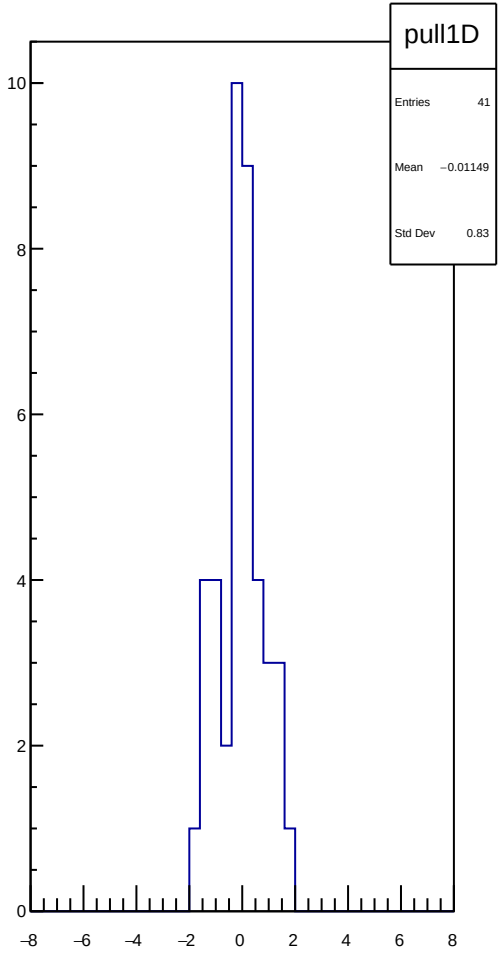

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 60.44 / 40
p0 −0.008374 ± 0.014
0.2
0
−0.2
−0.4
−0.6
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 60.72
Std Dev 13.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.03333
Std Dev 1.214
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

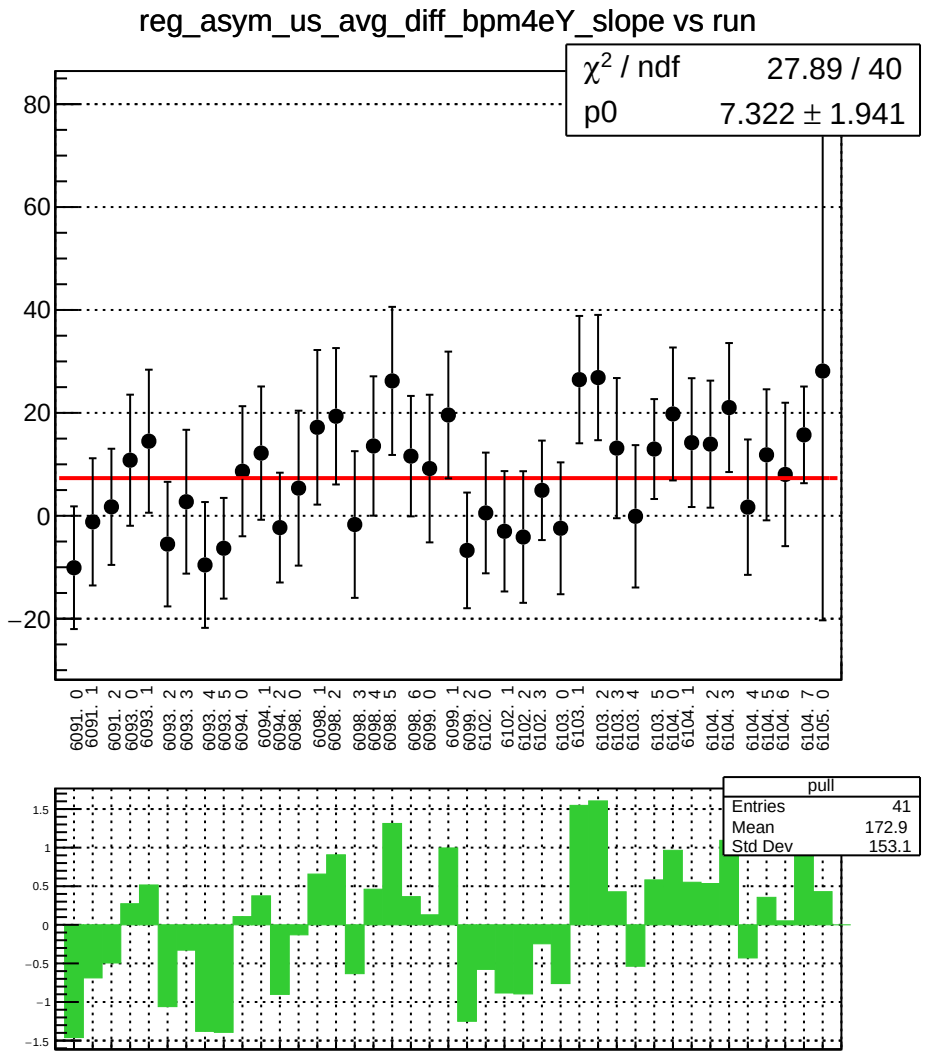

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.14 / 40
p0 −88.48 ± 2.756
−40
−60
−80
−100
−120
−140
−160
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 367.4
Std Dev 348.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01244
Std Dev 0.8283
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

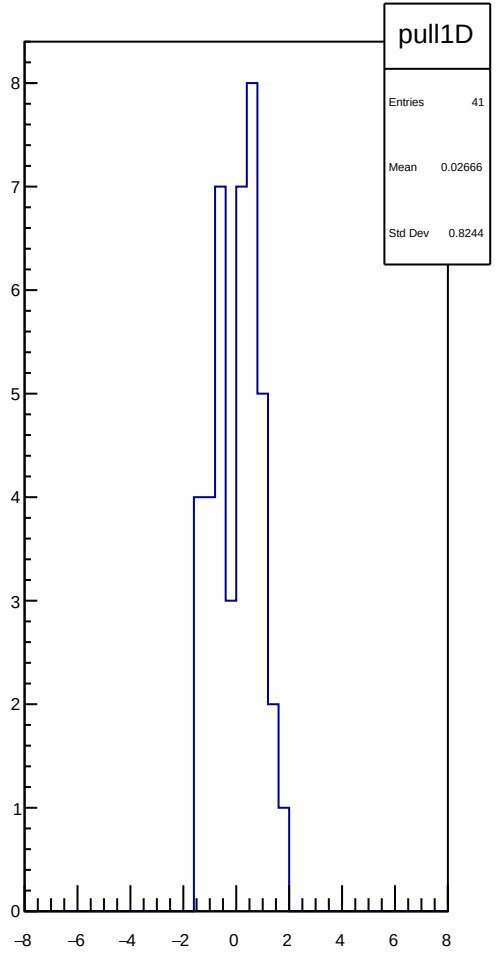

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.5 / 40
p0 10.06 ± 1.842
pull
Entries 41
Mean 185.1
Std Dev 165.5

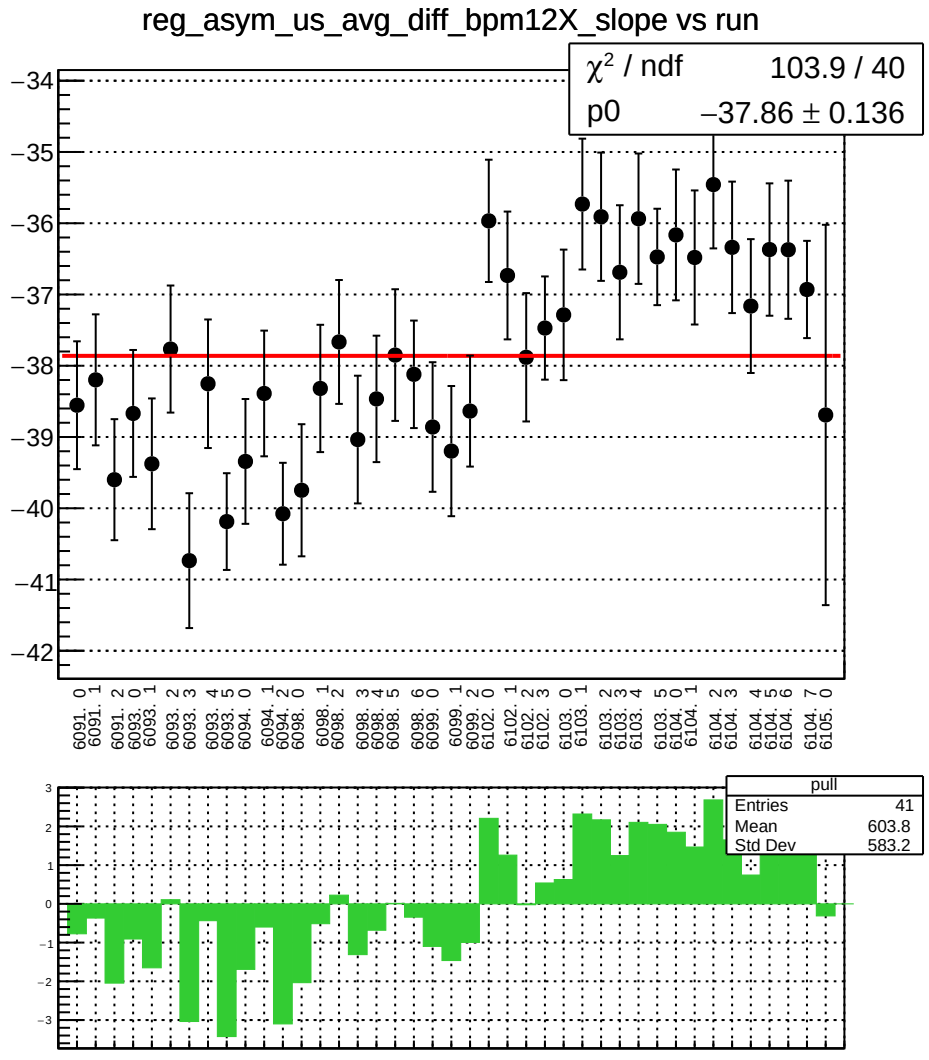

pull1D
Entries 41
Mean −0.01885
Std Dev 0.7885

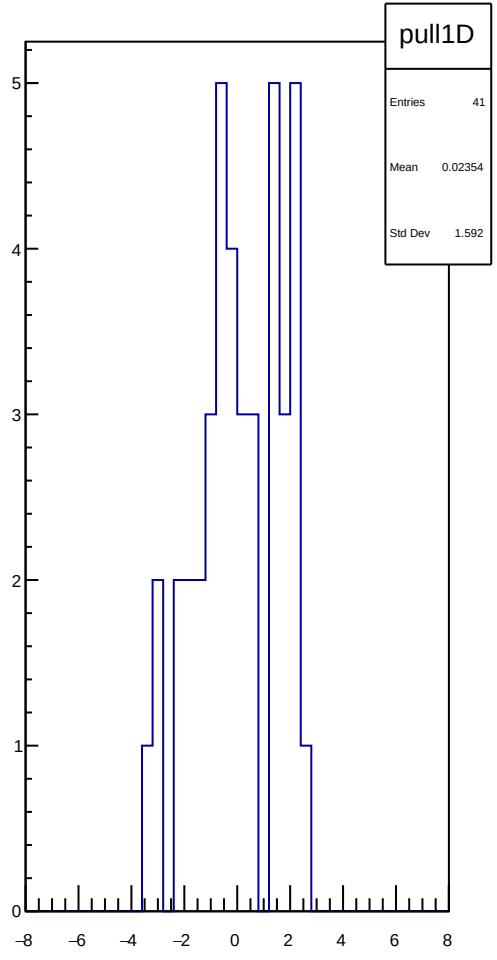

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.25 / 40
p0 112.5 ± 3.212
200
180
160
140
120
100
80
60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 413
Std Dev 394
2
1.5
1
0.5
0
−0.5
−1
−1.5

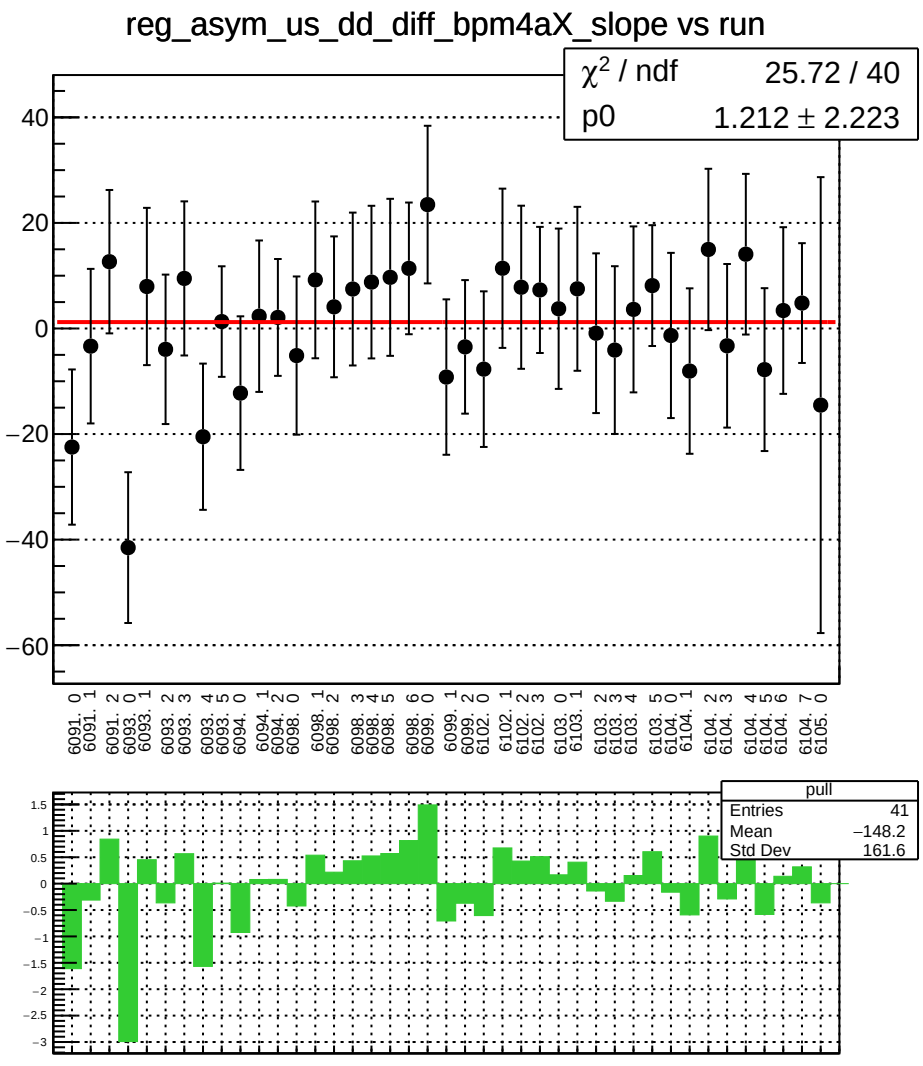

pull1D
Entries 41
Mean −0.01149
Std Dev 0.83
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

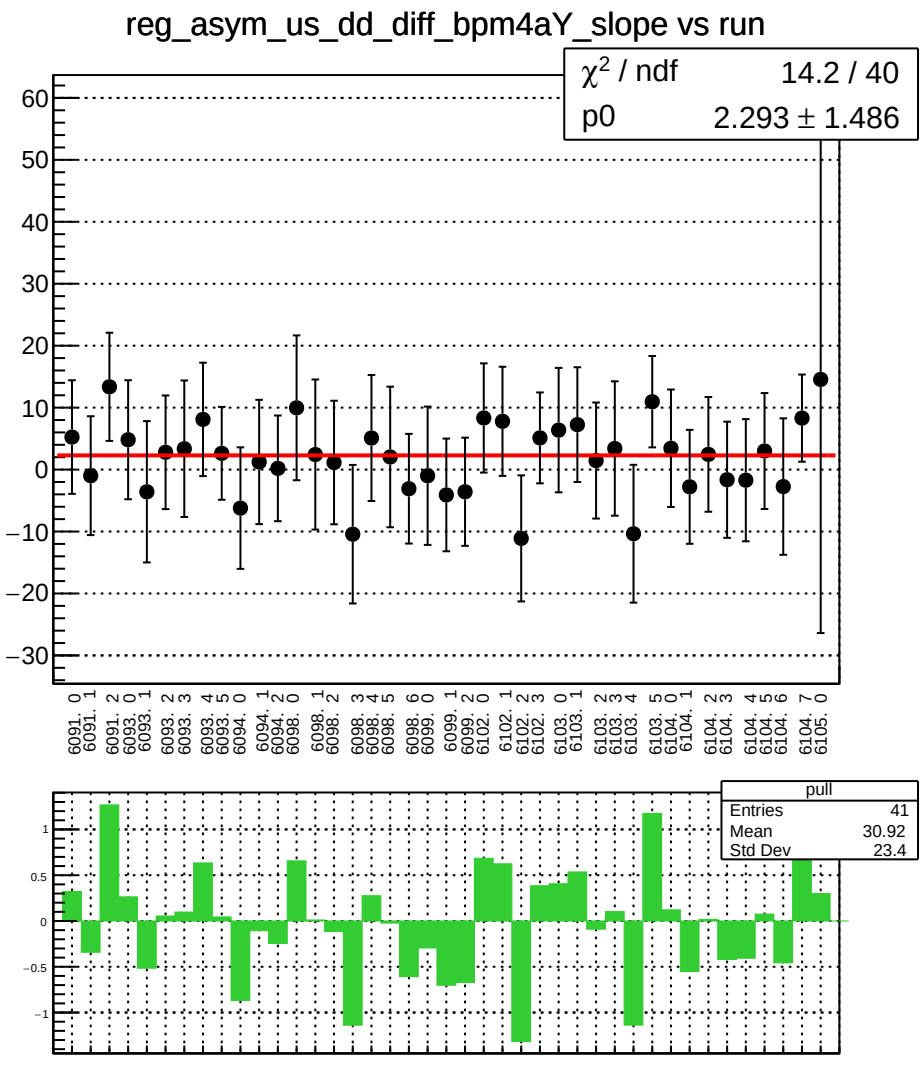

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.89 / 40
p0 7.322 ± 1.941
pull
Entries 41
Mean 172.9
Std Dev 153.1

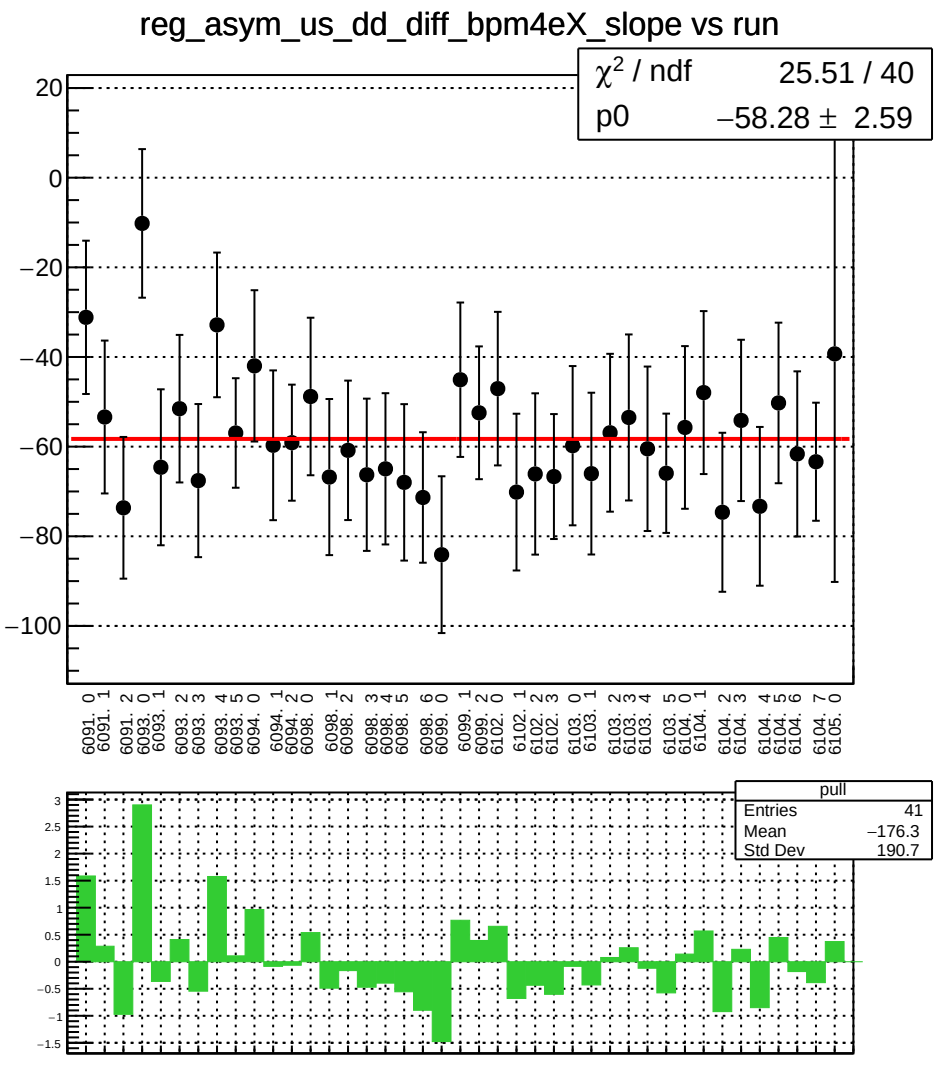

pull1D
Entries 41
Mean 0.02666
Std Dev 0.8244

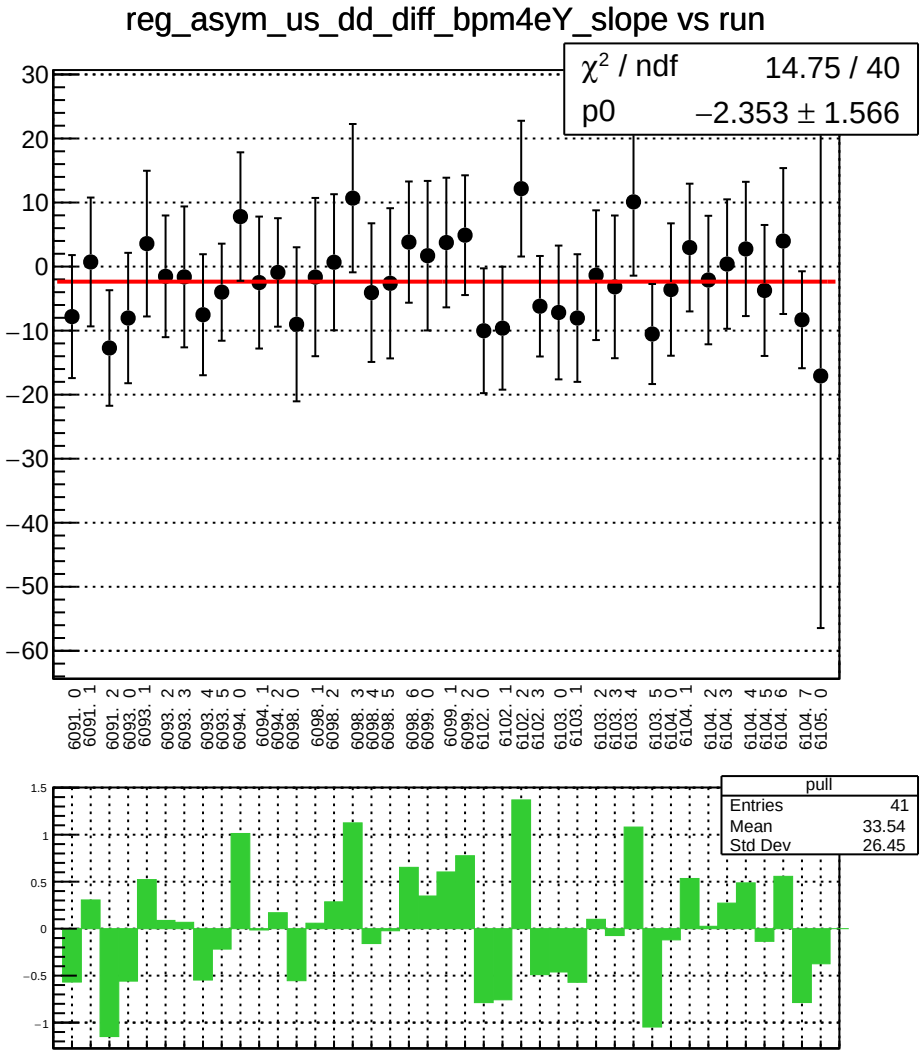

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 103.9 / 40
p0 −37.86 ± 0.136
pull
Entries 41
Mean 603.8
Std Dev 583.2

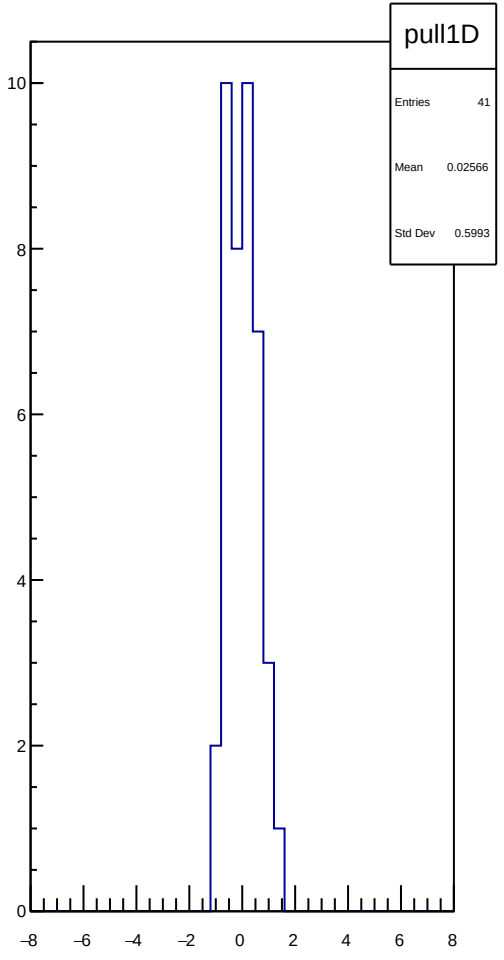

pull1D
Entries 41
Mean 0.02354
Std Dev 1.592

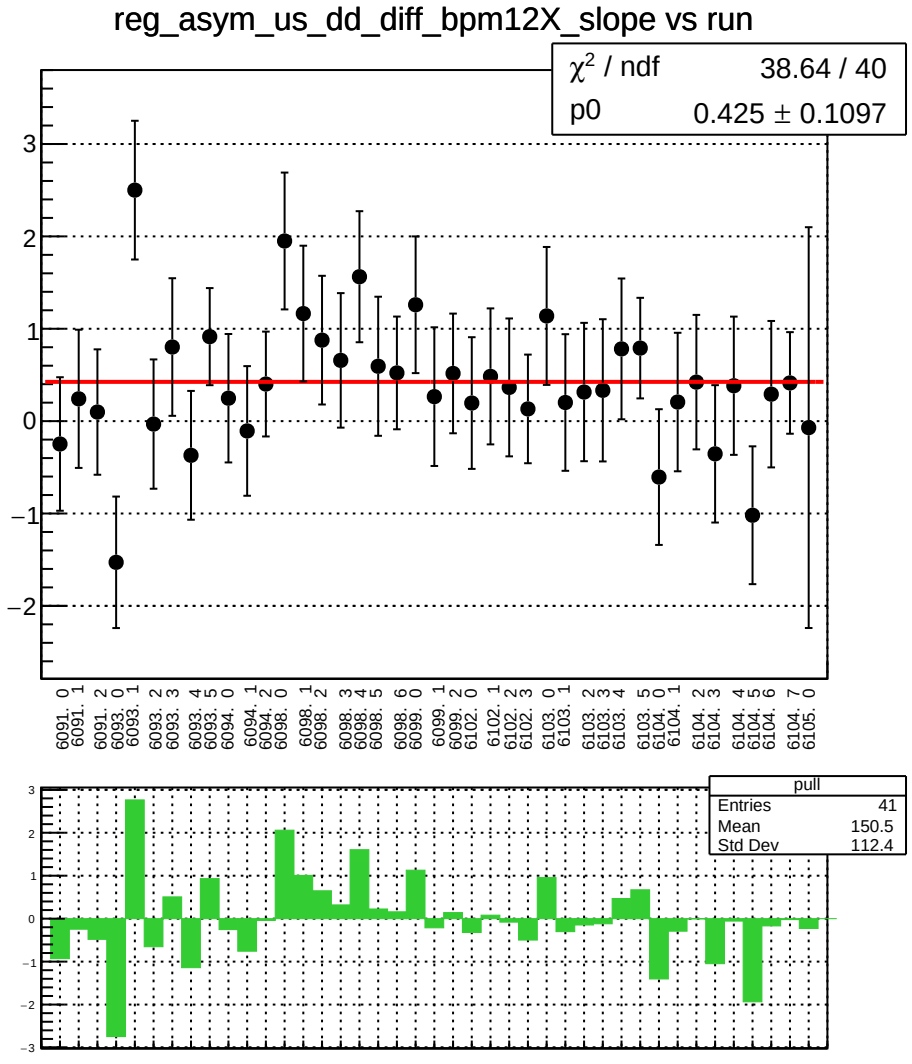

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.72 / 40
p0 1.212 ± 2.223
40
20
0
−20
−40
−60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −148.2
Std Dev 161.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 41
Mean −0.01422
Std Dev 0.7919
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

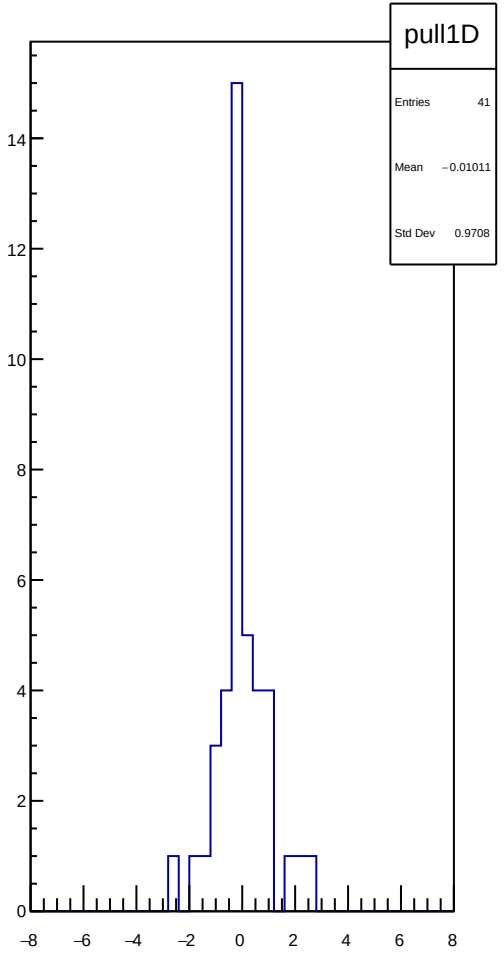

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.2 / 40
p0 2.293 ± 1.486
60
50
40
30
20
10
0
−10
−20
−30
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 30.92
Std Dev 23.4
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.02674
Std Dev 0.5879
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

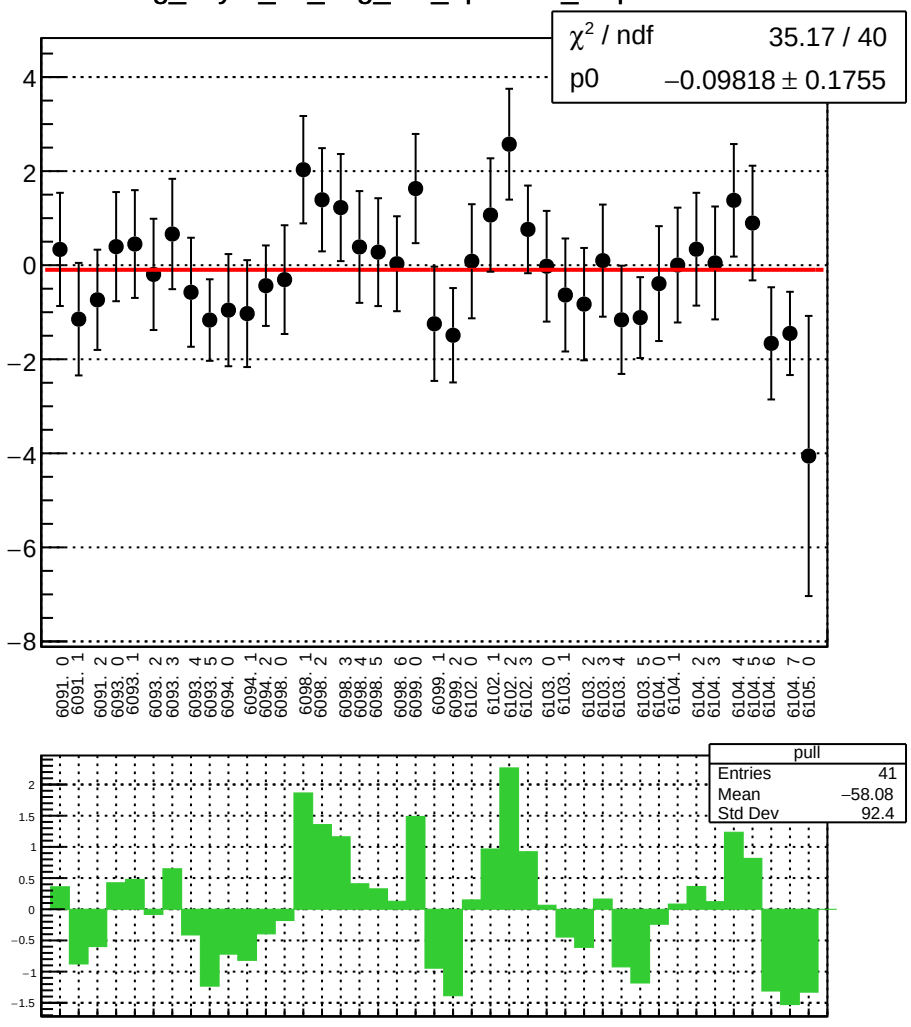

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.51 / 40
p0 −58.28 ± 2.59
20
0
−20
−40
−60
−80
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −176.3
Std Dev 190.7
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01319
Std Dev 0.7886
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

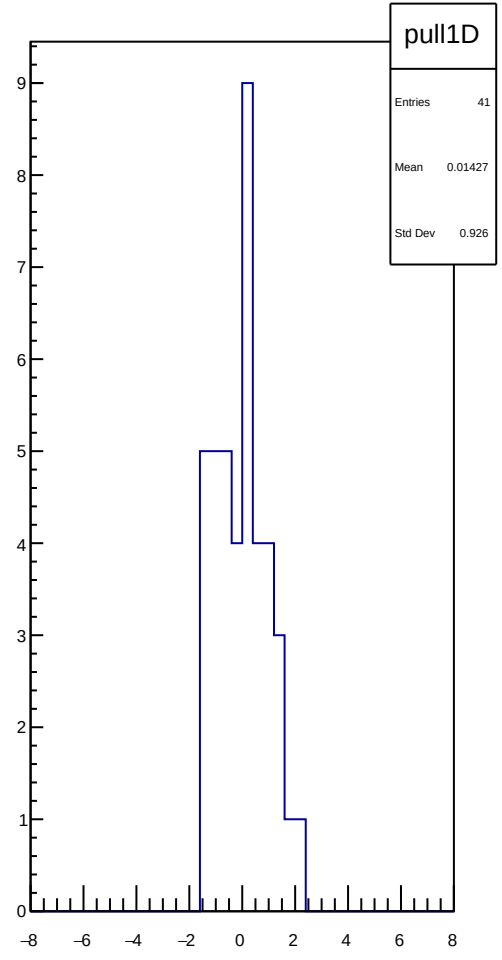

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.75 / 40
p0 −2.353 ± 1.566
pull
Entries 41
Mean 33.54
Std Dev 26.45

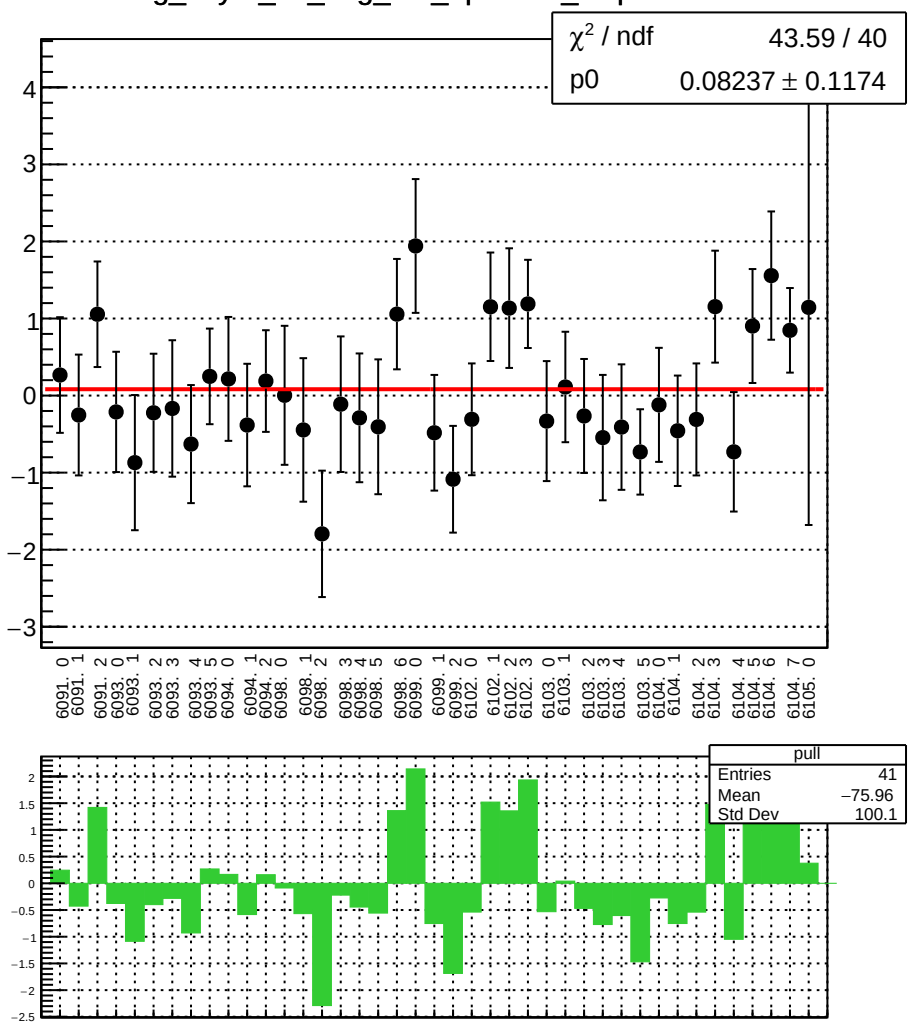

pull1D
Entries 41
Mean 0.02566
Std Dev 0.5993

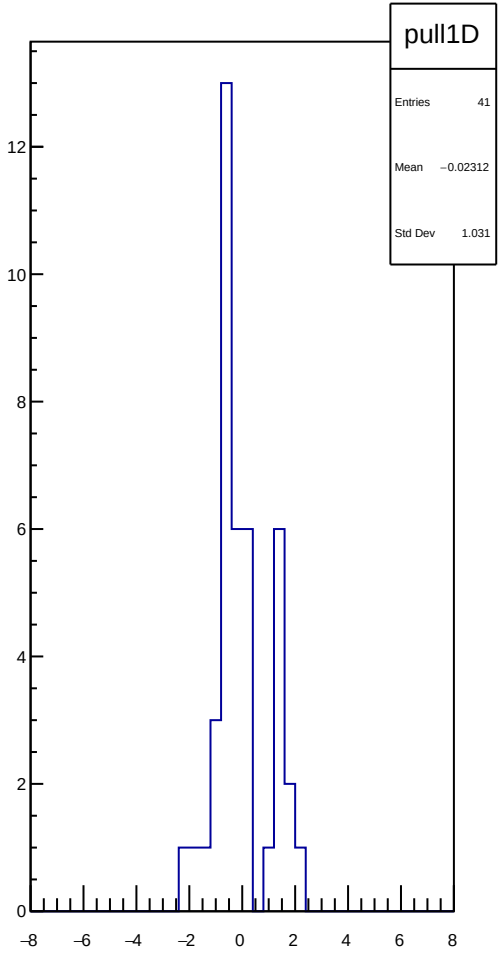

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 38.64 / 40
p0 0.425 ± 0.1097
pull
Entries 41
Mean 150.5
Std Dev 112.4

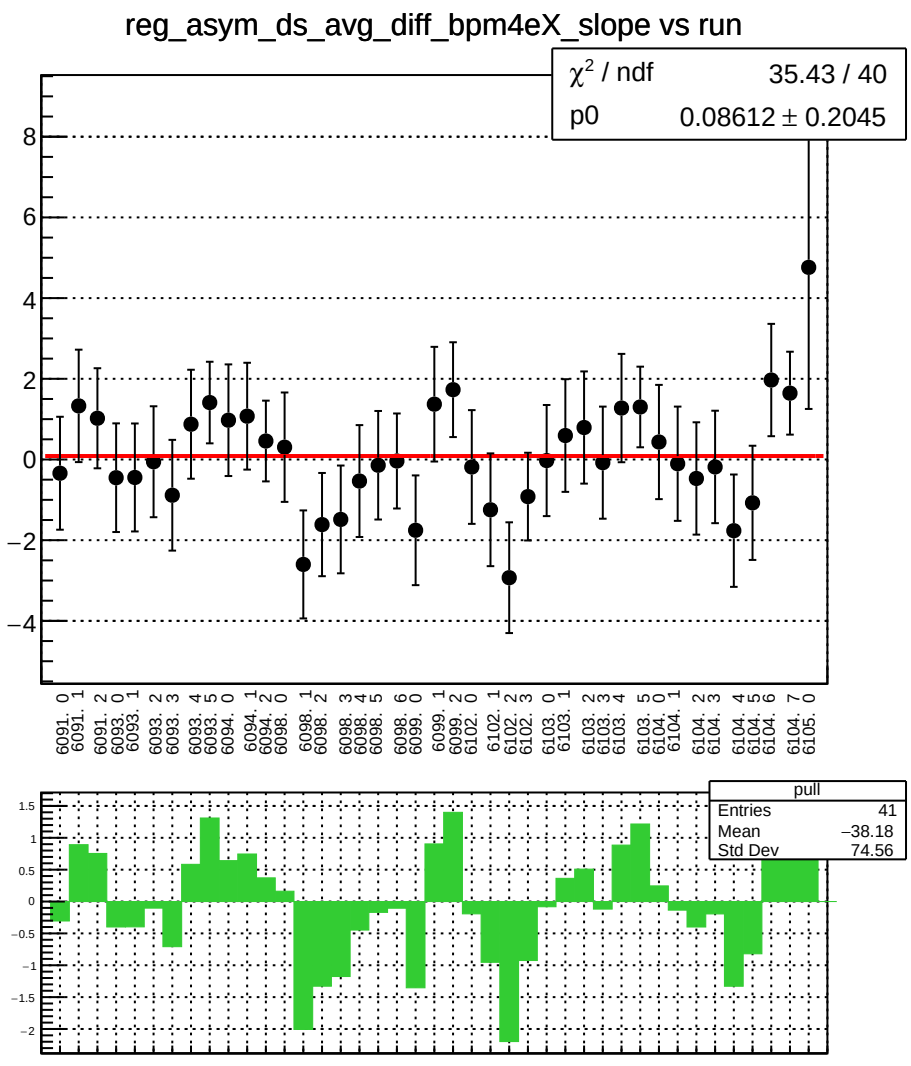

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9708

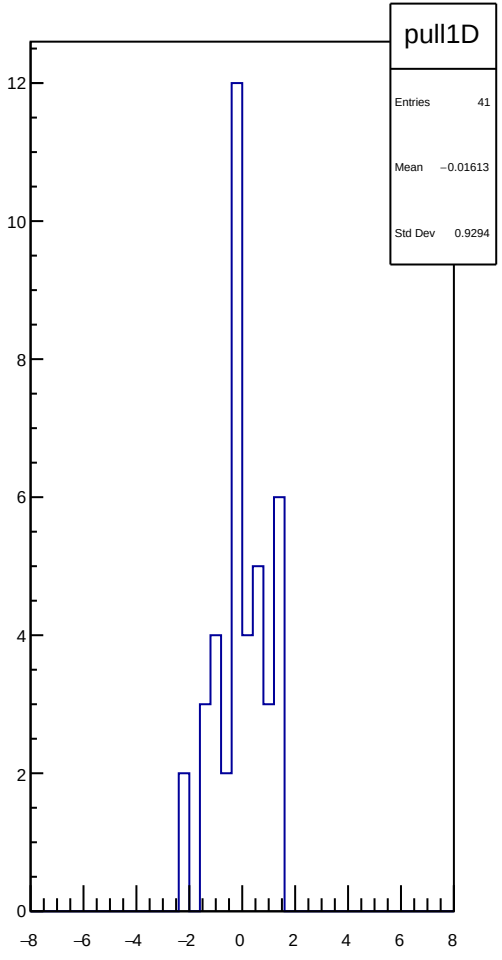

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.17 / 40
p0 −0.09818 ± 0.1755
pull
Entries 41
Mean −58.08
Std Dev 92.4

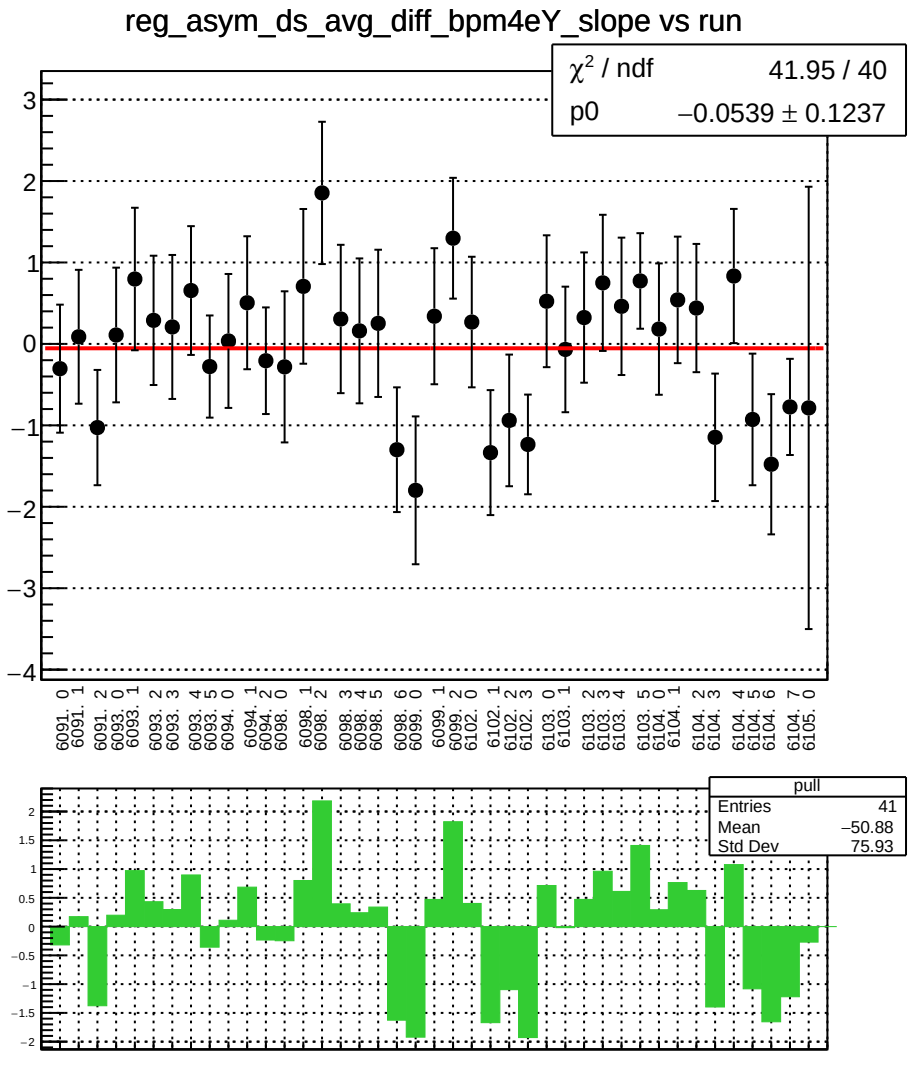

pull1D
Entries 41
Mean 0.01427
Std Dev 0.926

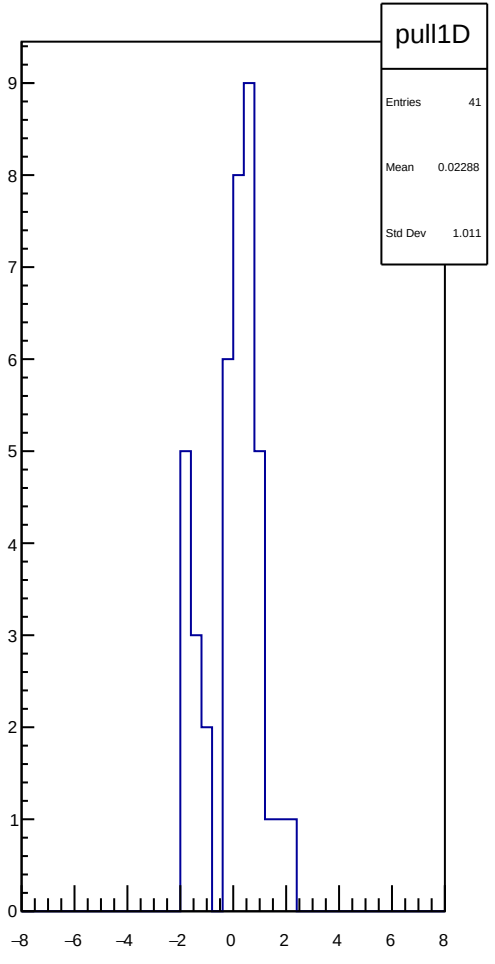

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.59 / 40
p0 0.08237 ± 0.1174
pull
Entries 41
Mean −75.96
Std Dev 100.1

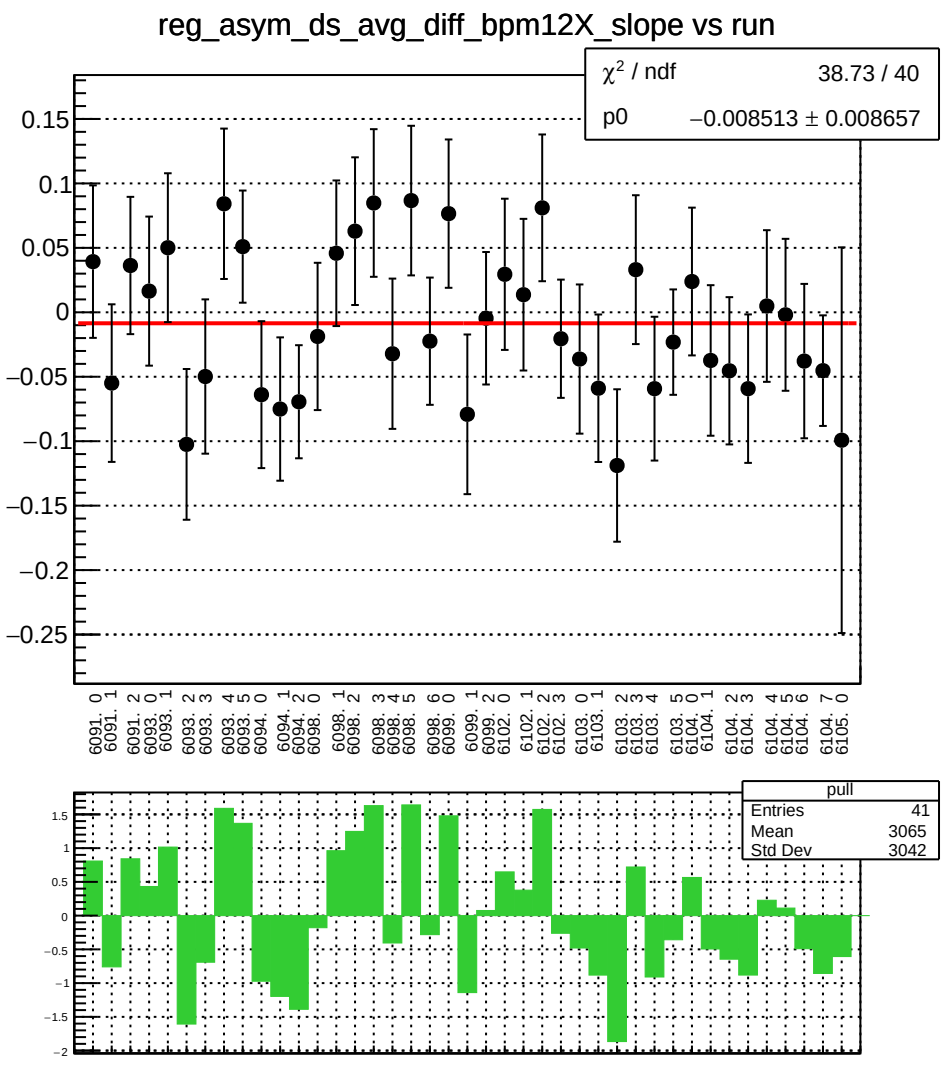

pull1D
Entries 41
Mean −0.02312
Std Dev 1.031

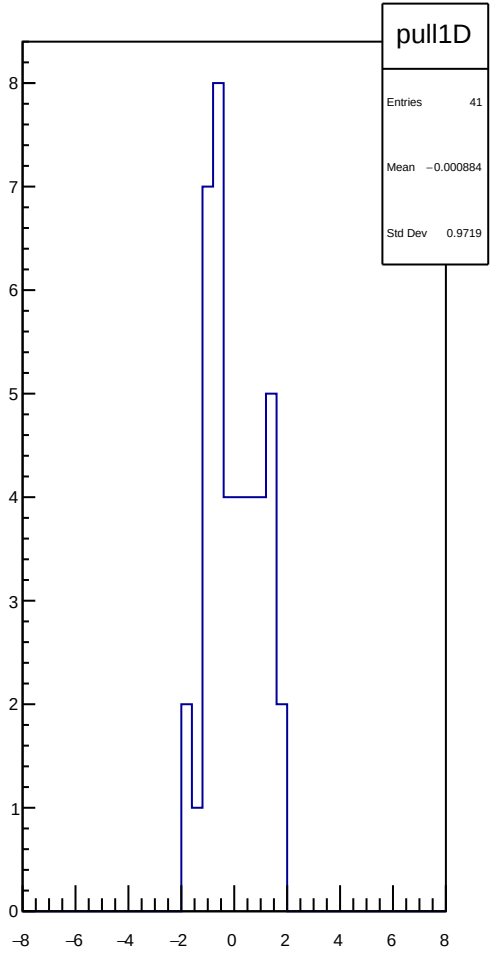

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.43 / 40
p0 0.08612 ± 0.2045
pull
Entries 41
Mean −38.18
Std Dev 74.56

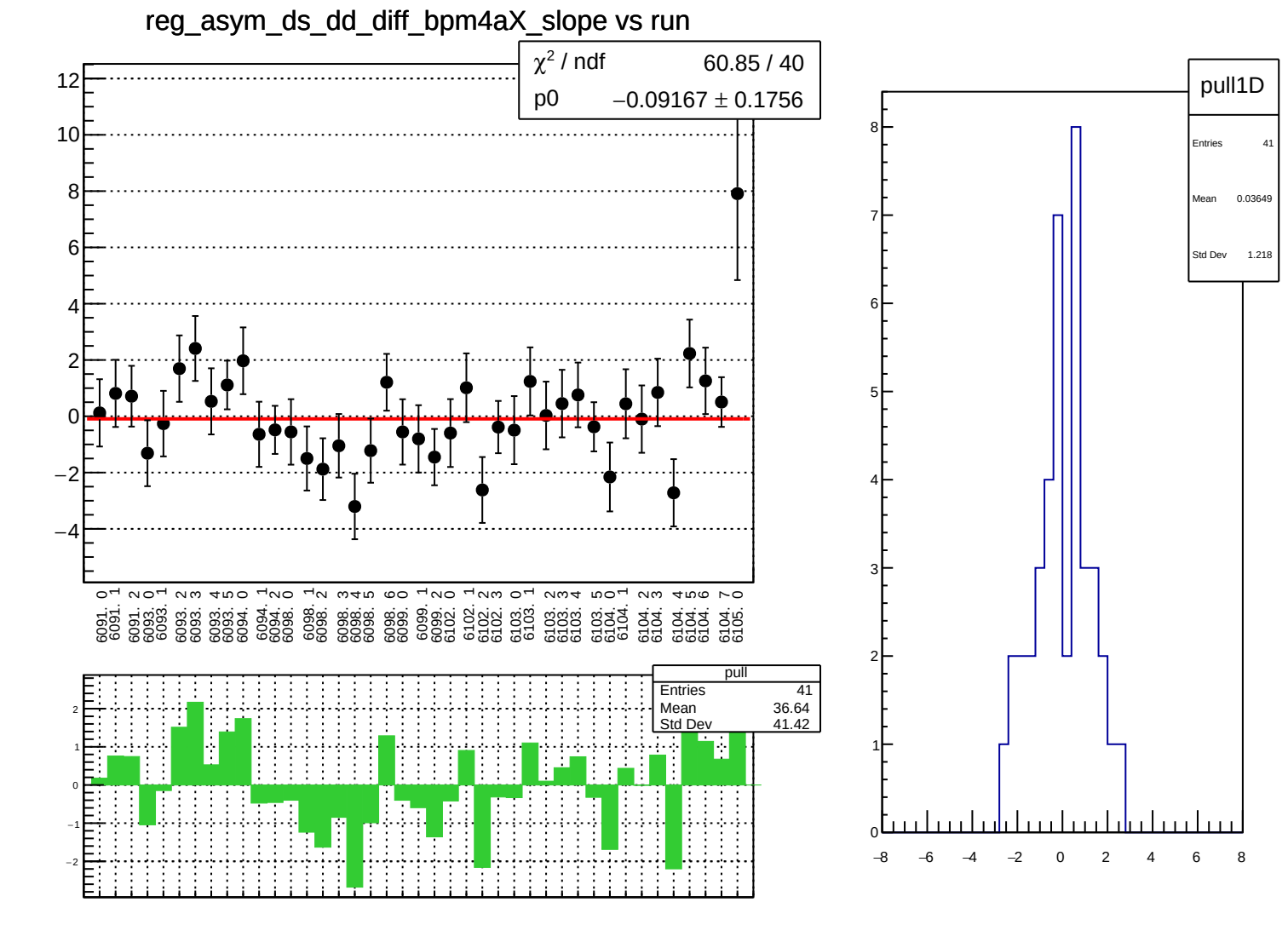

pull1D
Entries 41
Mean −0.01613
Std Dev 0.9294

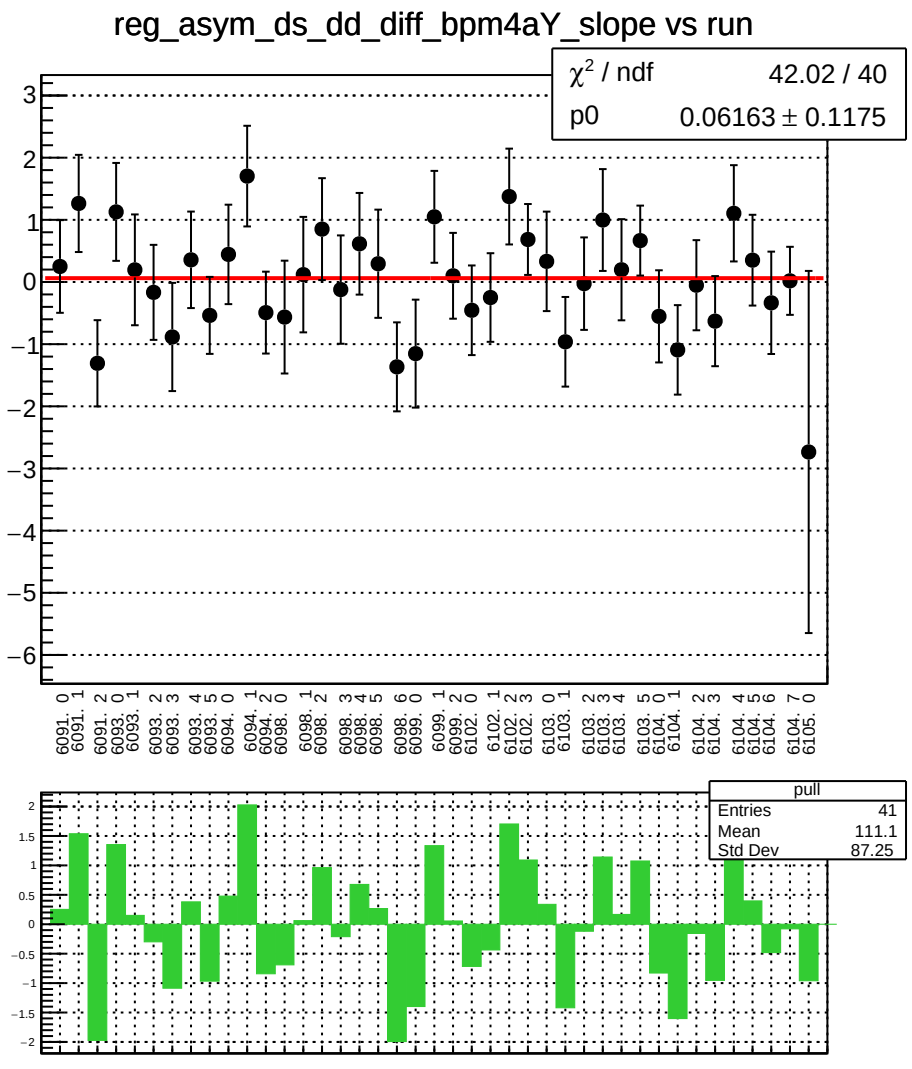

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.95 / 40
p0 −0.0539 ± 0.1237
pull
Entries 41
Mean −50.88
Std Dev 75.93

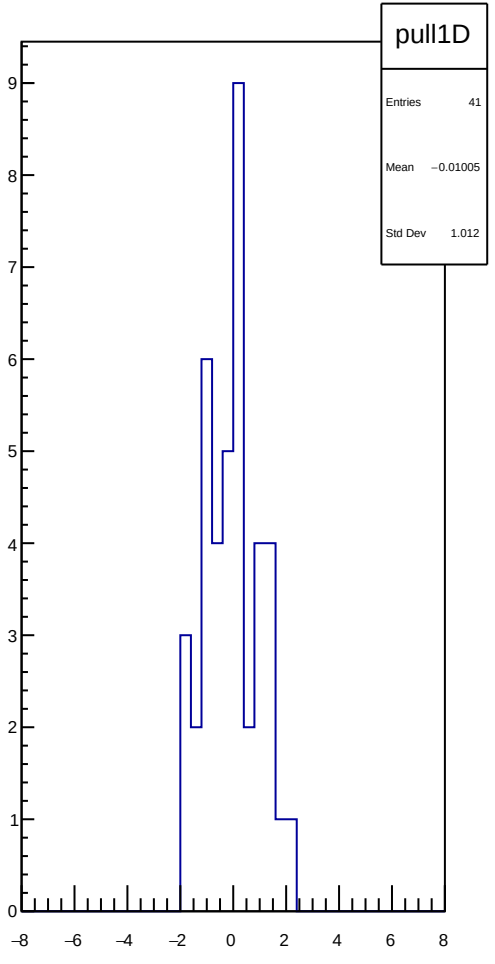

pull1D
Entries 41
Mean 0.02288
Std Dev 1.011

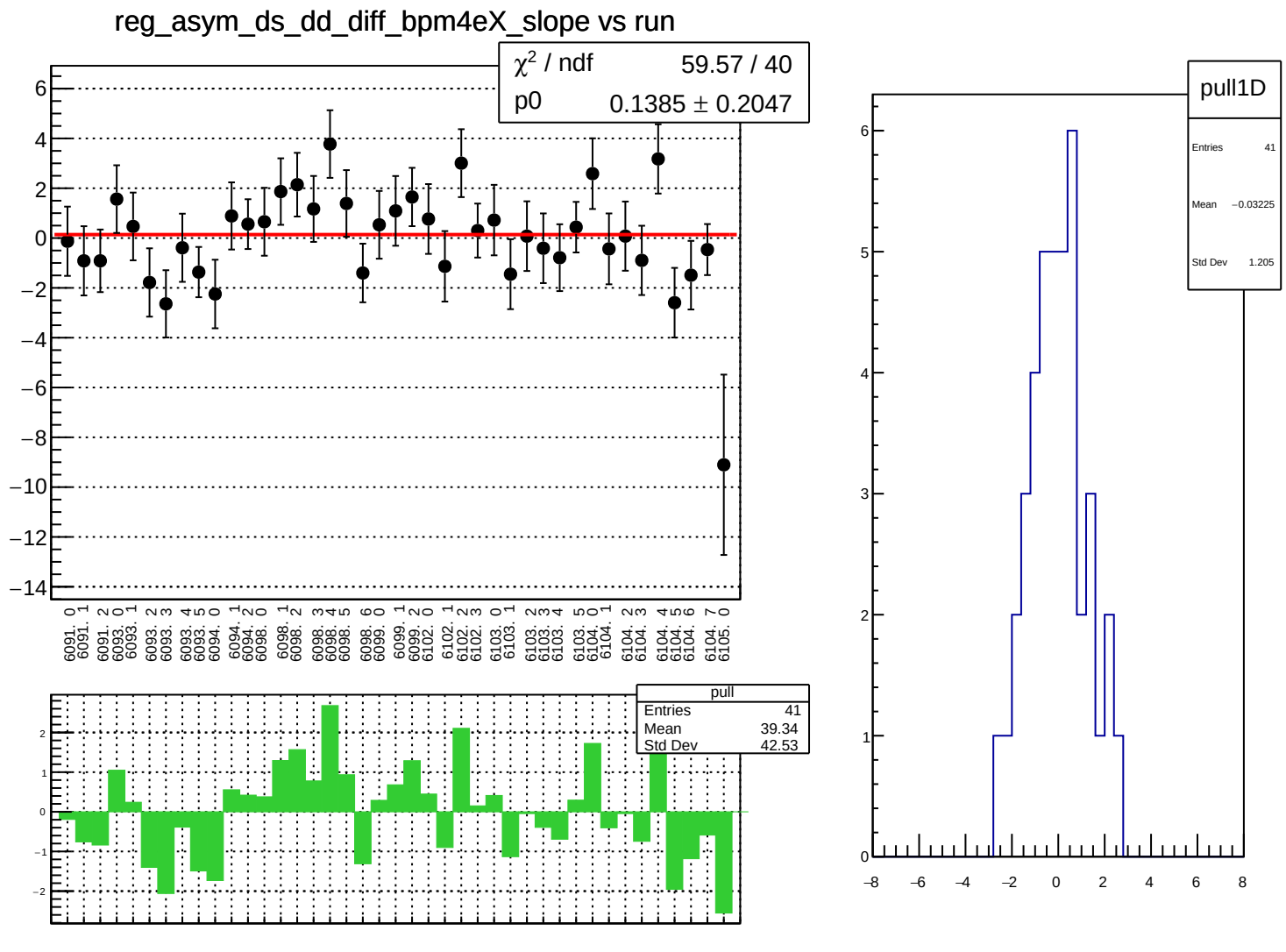

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 38.73 / 40
p0 −0.008513 ± 0.008657
pull
Entries 41
Mean 3065
Std Dev 3042

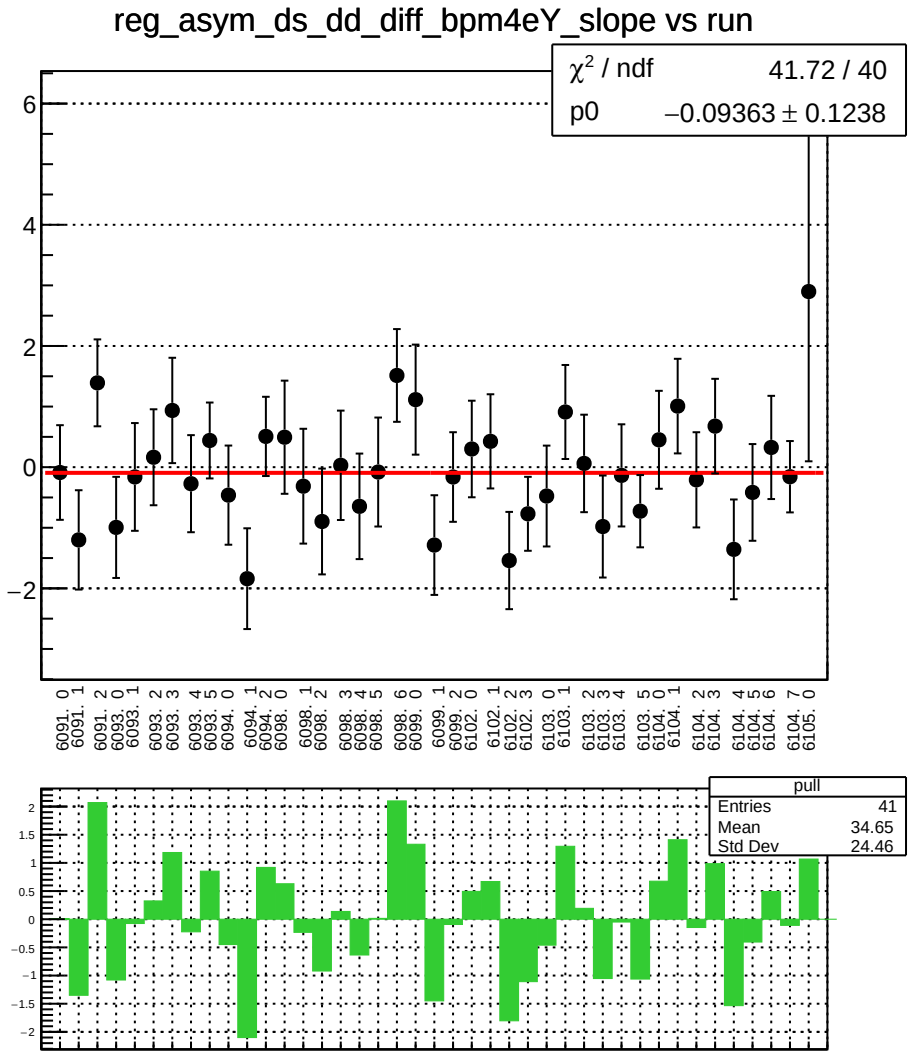

pull1D
Entries 41
Mean −0.000884
Std Dev 0.9719

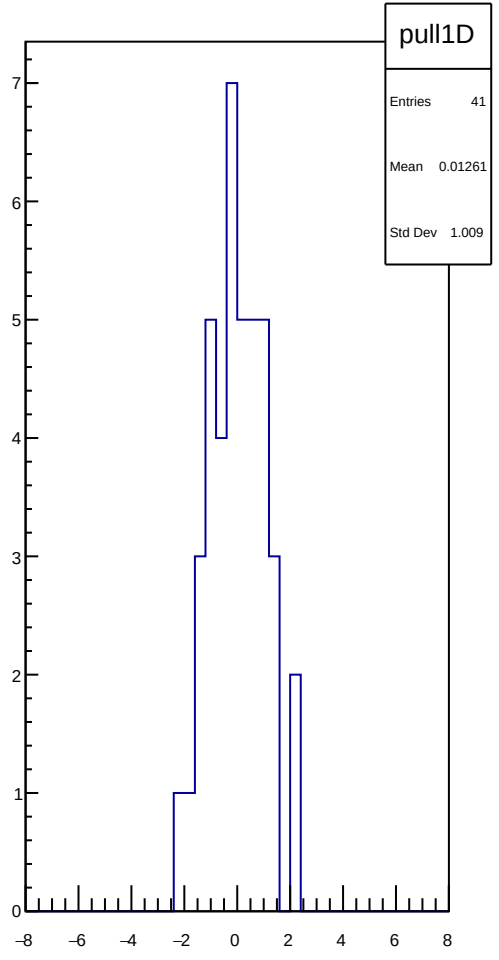

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 60.85 / 40
p0 −0.09167 ± 0.1756
pull
Entries 41
Mean 36.64
Std Dev 41.42
pull1D
Entries 41
Mean 0.03649
Std Dev 1.218

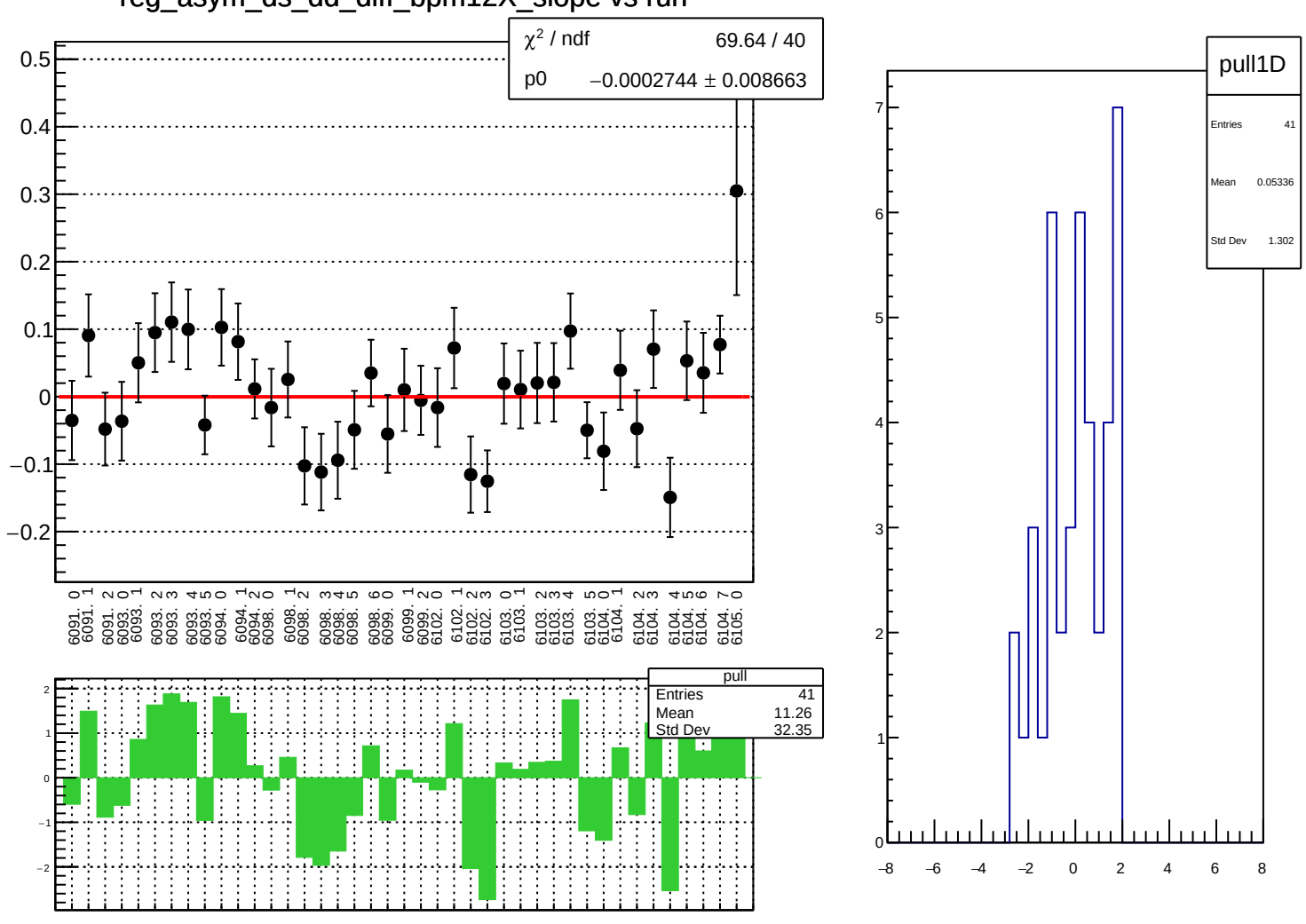

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.02 / 40
p0 0.06163 ± 0.1175
pull
Entries 41
Mean 111.1
Std Dev 87.25

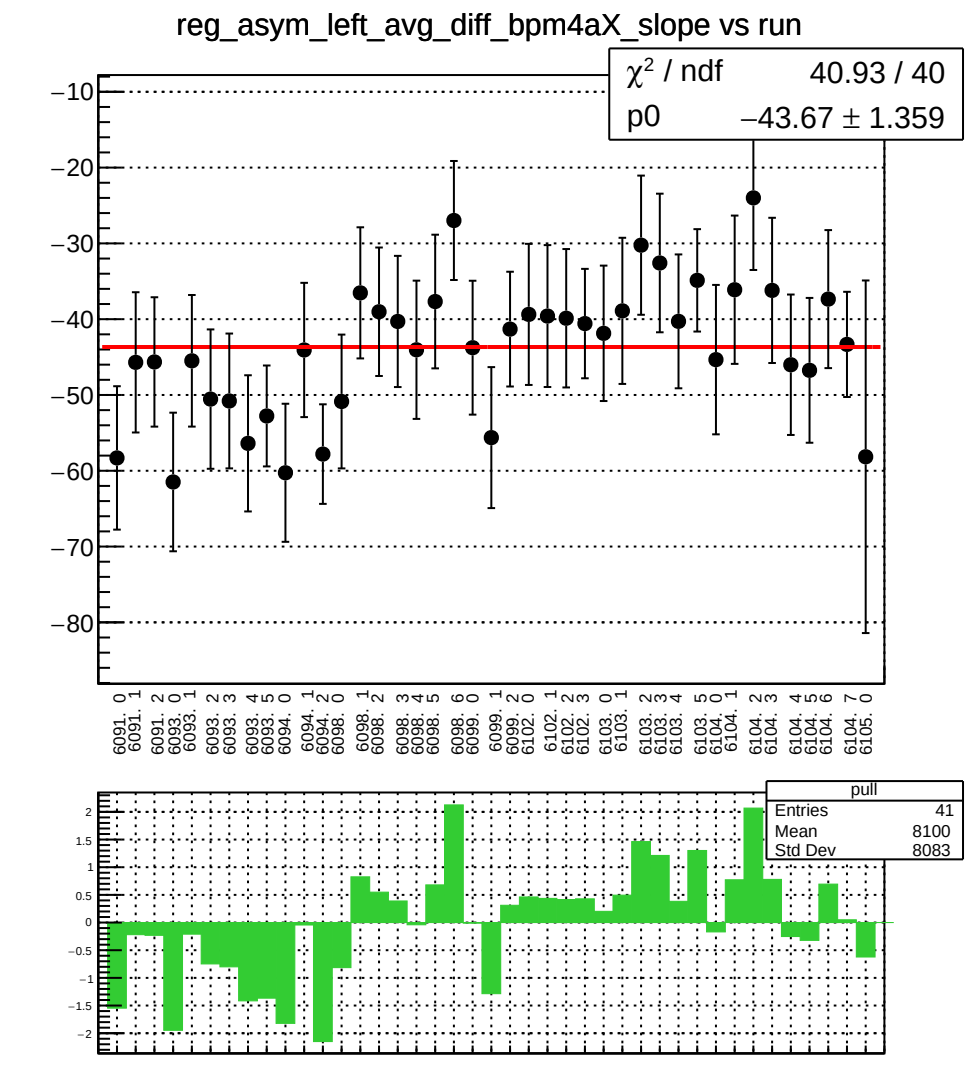

pull1D
Entries 41
Mean −0.01005
Std Dev 1.012

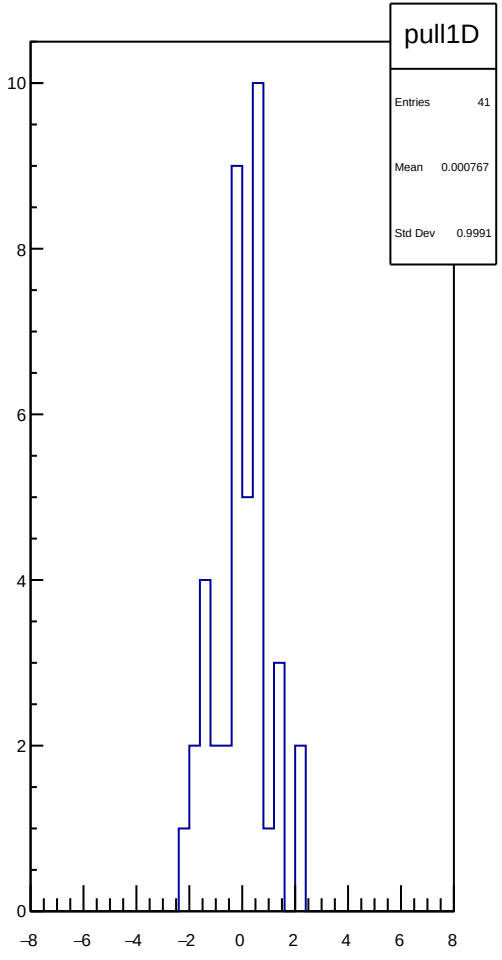

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.57 / 40
p0 0.1385 ± 0.2047
pull
Entries 41
Mean 39.34
Std Dev 42.53
pull1D
Entries 41
Mean −0.03225
Std Dev 1.205

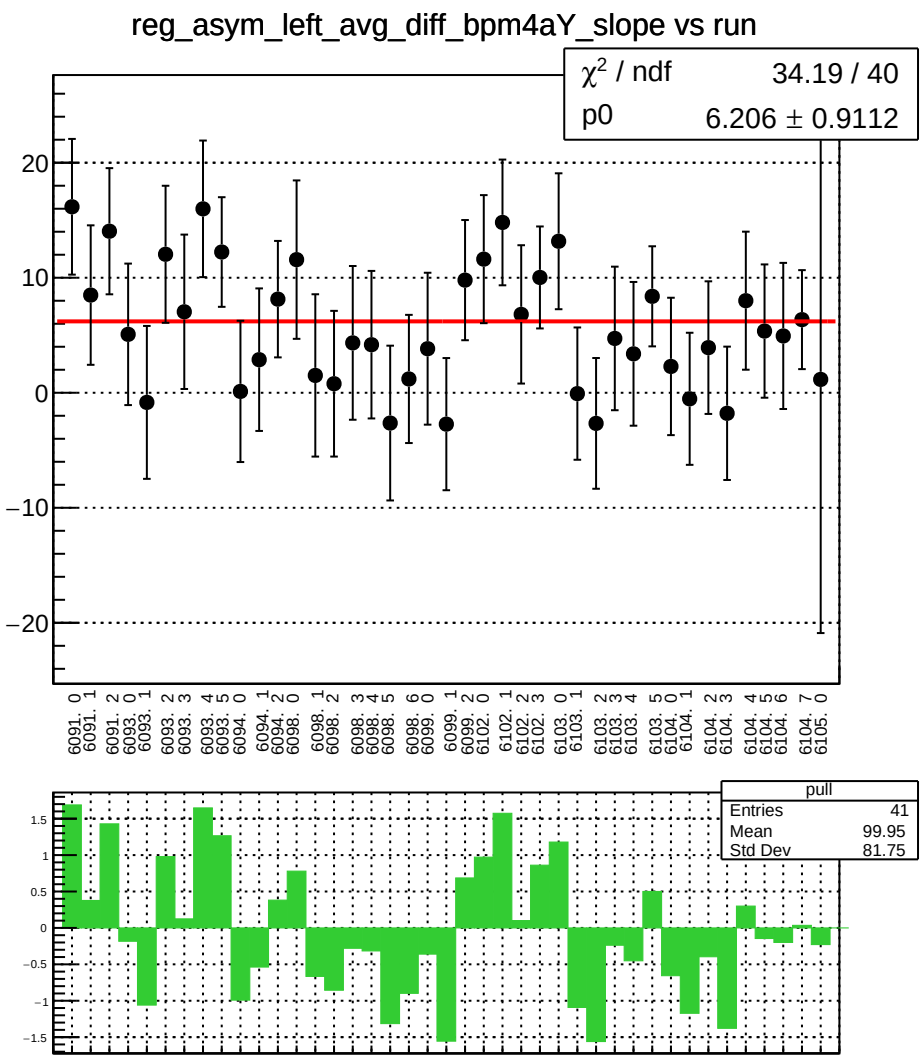

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.72 / 40
p0 −0.09363 ± 0.1238
pull
Entries 41
Mean 34.65
Std Dev 24.46

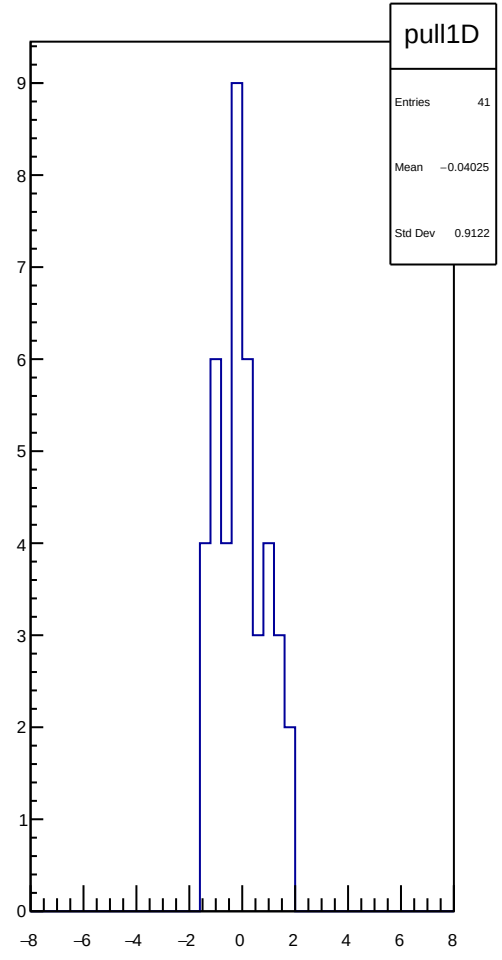

pull1D
Entries 41
Mean 0.01261
Std Dev 1.009

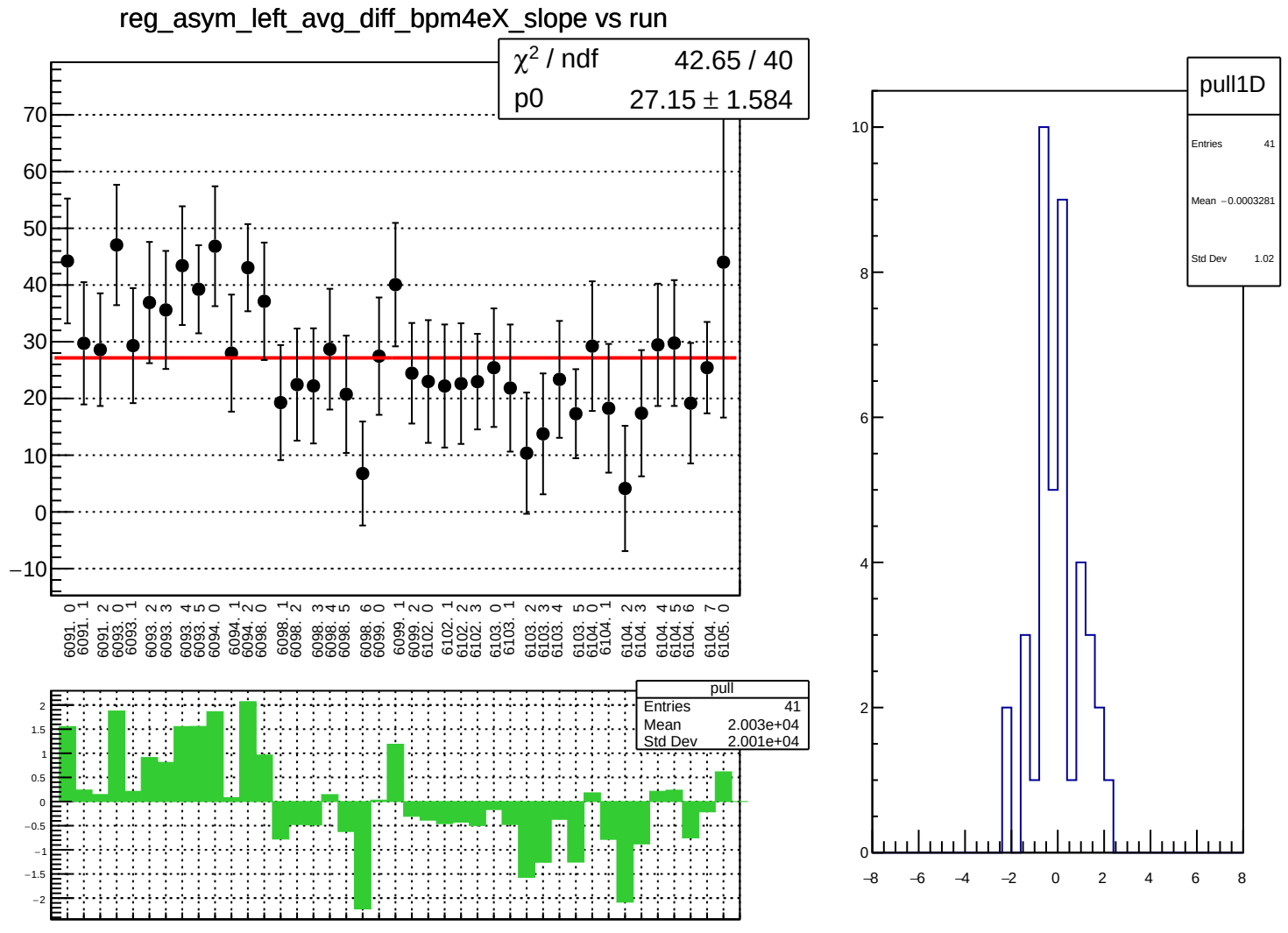

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 69.64 / 40
p0 −0.0002744 ± 0.008663
pull
Entries 41
Mean 11.26
Std Dev 32.35
pull1D
Entries 41
Mean 0.05336
Std Dev 1.302

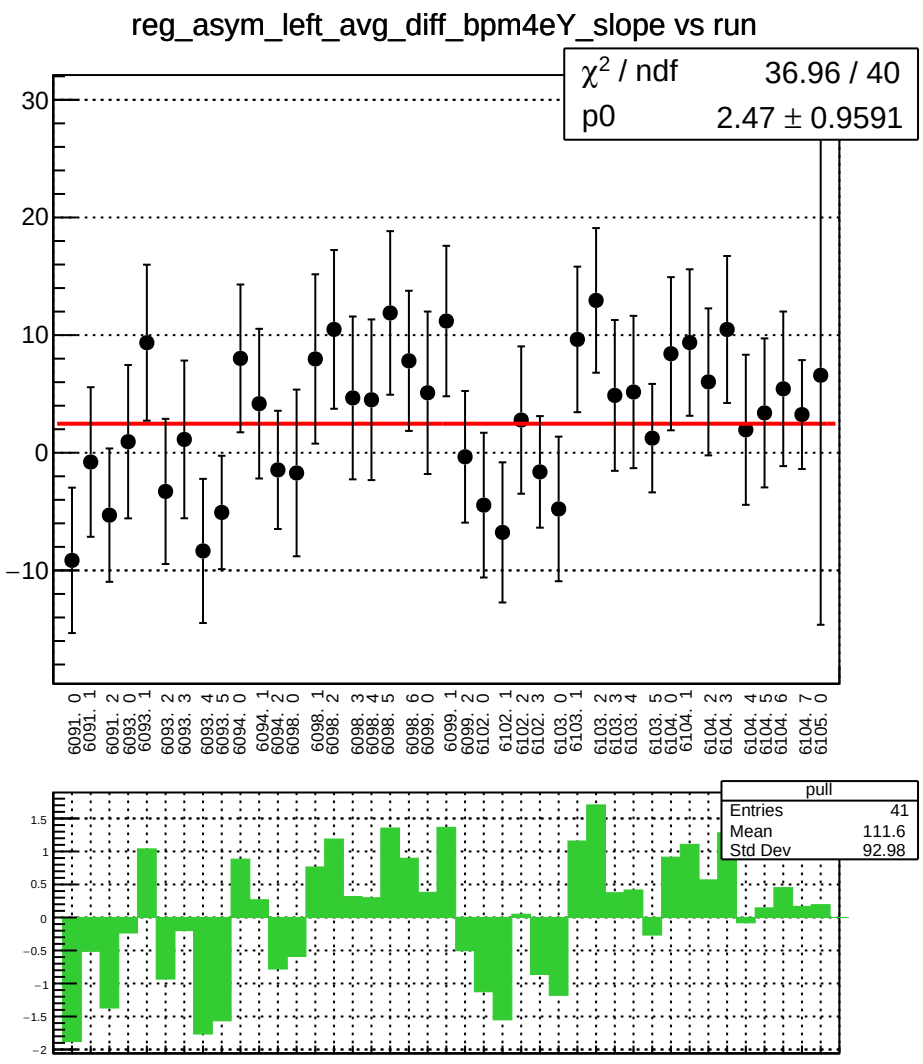

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.93 / 40
p0 −43.67 ± 1.359
pull
Entries 41
Mean 8100
Std Dev 8083

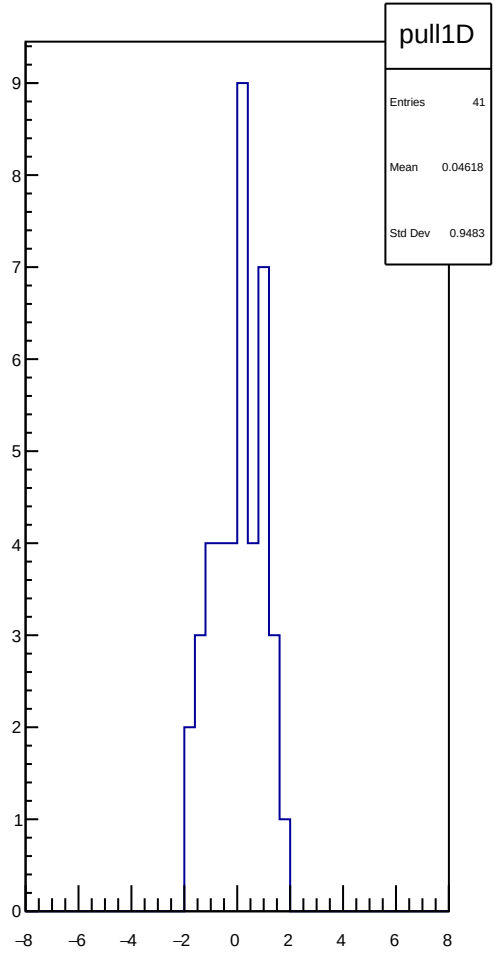

pull1D
Entries 41
Mean 0.000767
Std Dev 0.9991

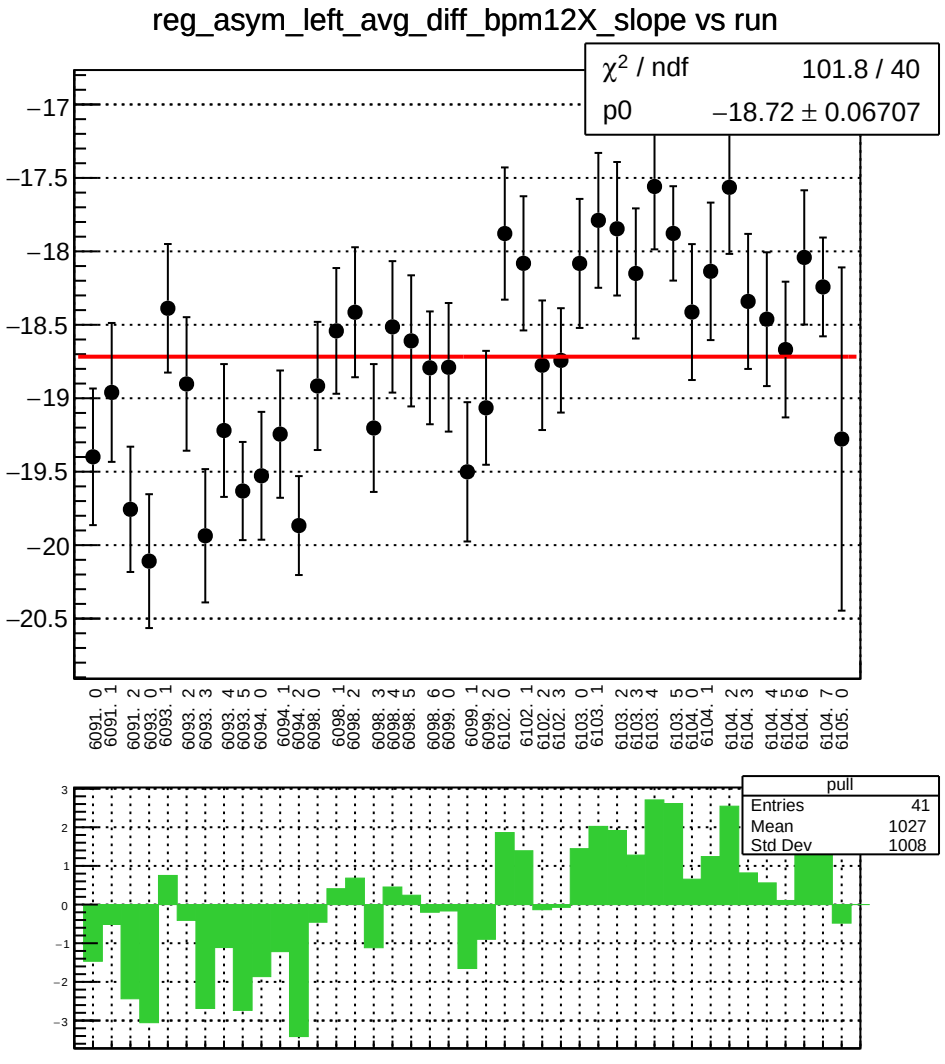

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.19 / 40
p0 6.206 ± 0.9112
20
10
0
−10
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 99.95
Std Dev 81.75
1.5
1
0.5
0
−0.5
−1
−1.5

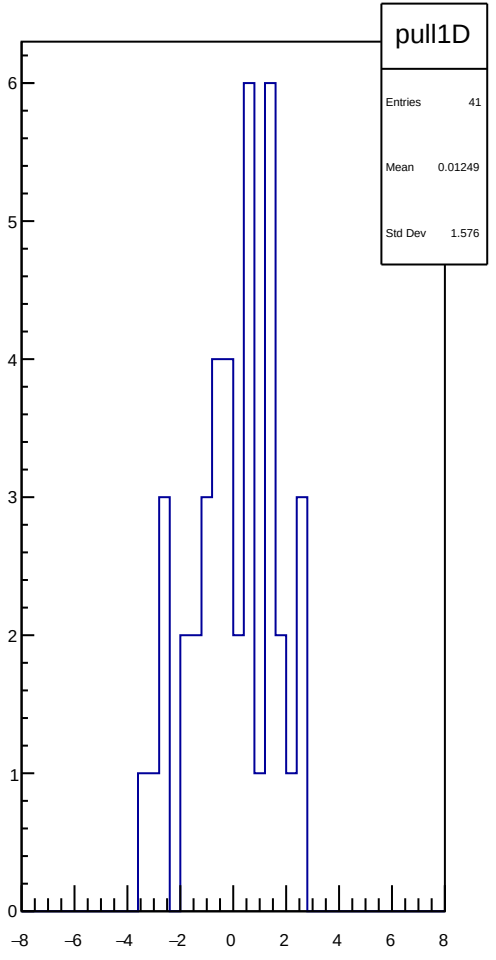

pull1D
Entries 41
Mean −0.04025
Std Dev 0.9122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

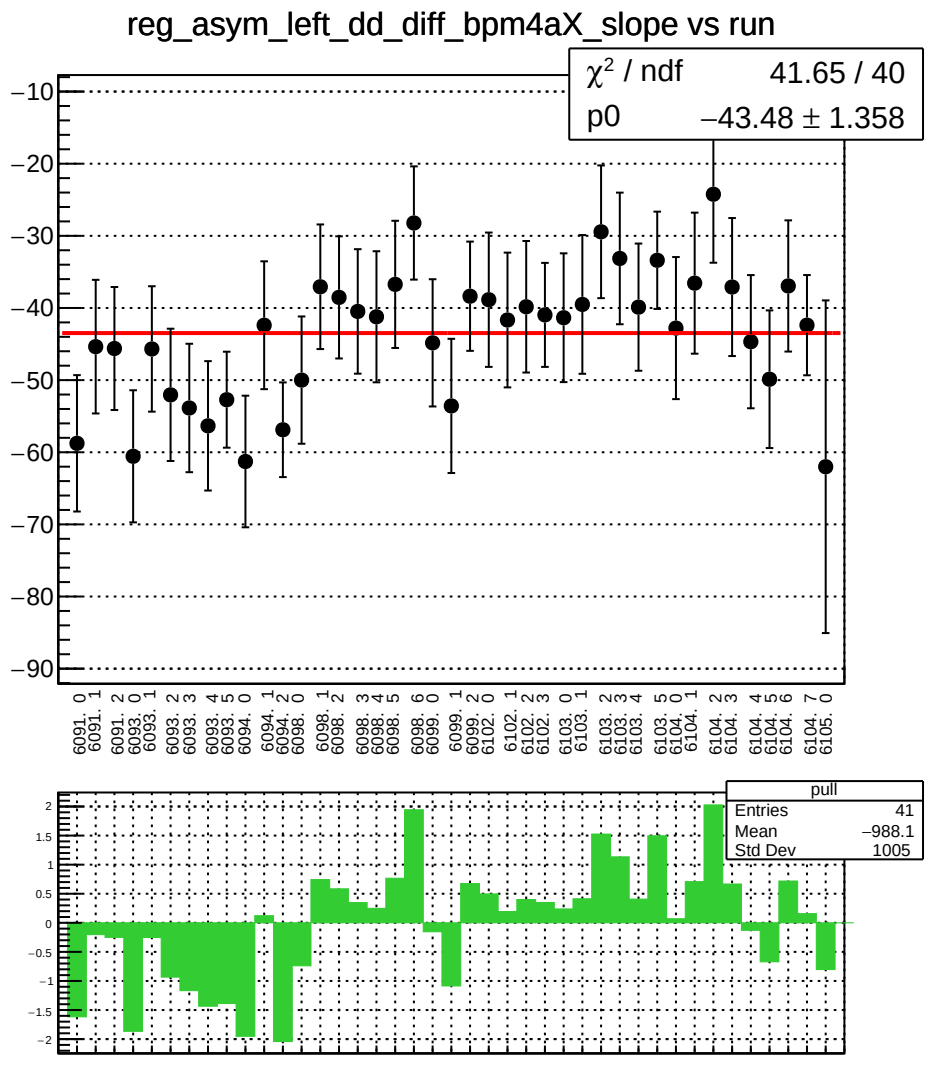

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.65 / 40
p0 27.15 ± 1.584
pull
Entries 41
Mean 2.003e+04
Std Dev 2.001e+04
pull1D
Entries 41
Mean −0.0003281
Std Dev 1.02

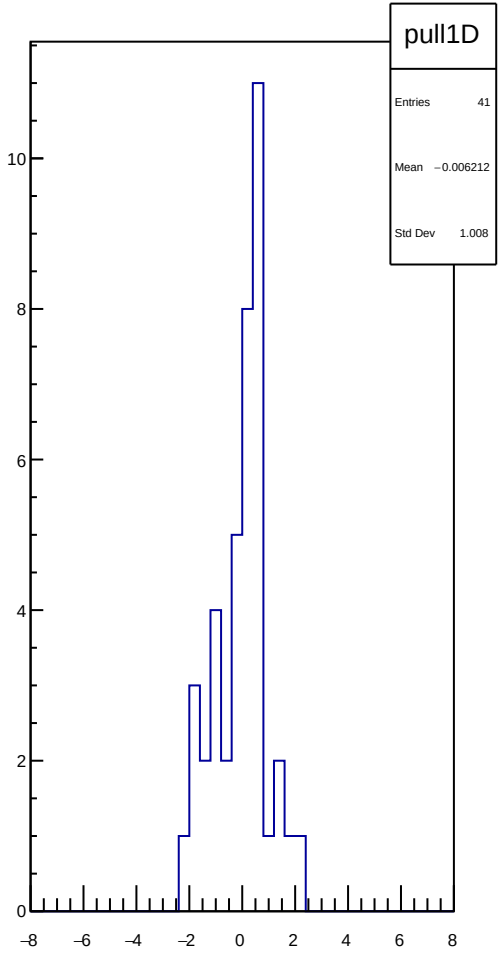

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.96 / 40
p0 2.47 ± 0.9591
pull
Entries 41
Mean 111.6
Std Dev 92.98

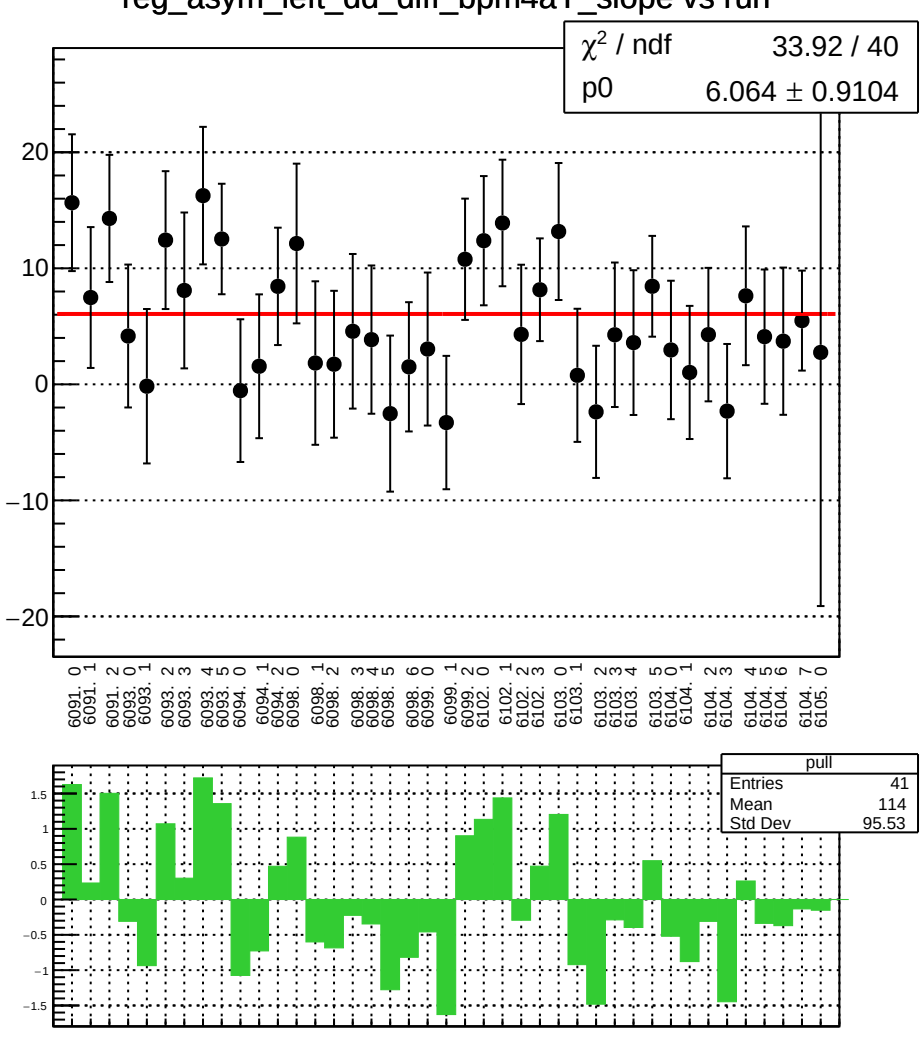

pull1D
Entries 41
Mean 0.04618
Std Dev 0.9483

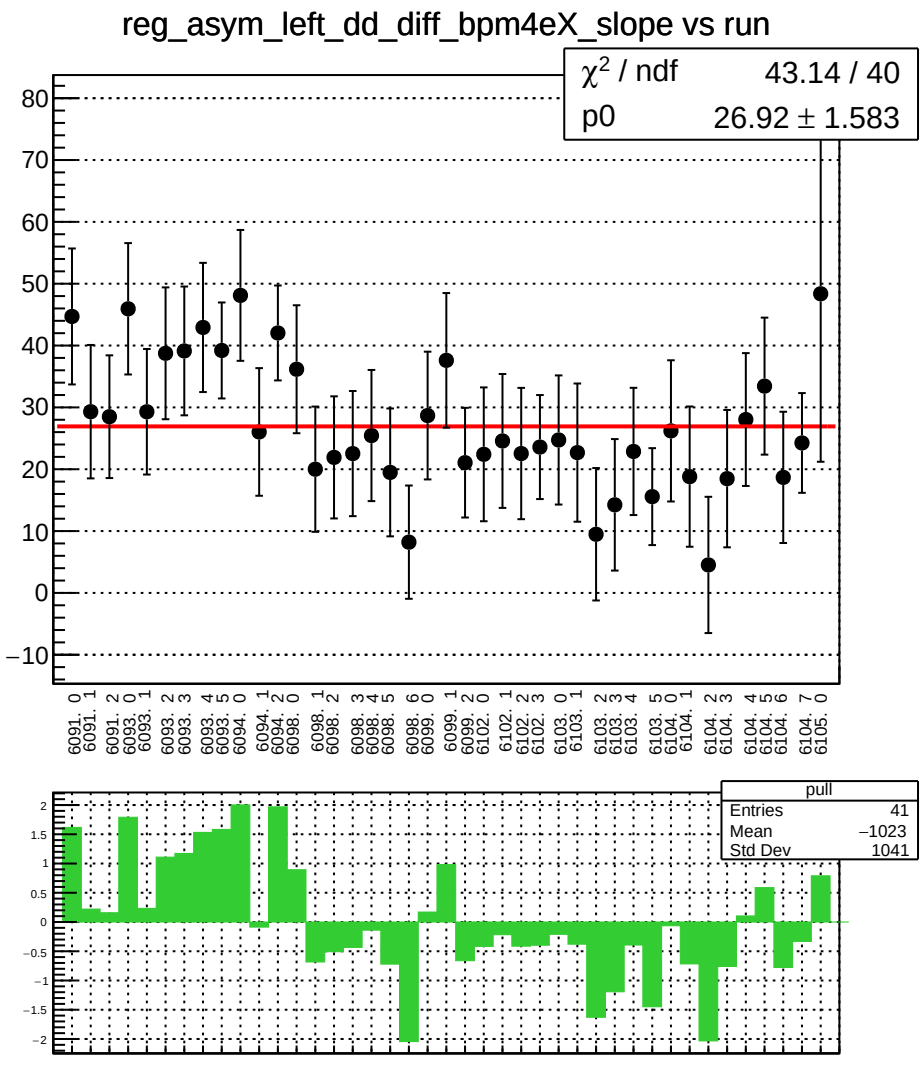

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 101.8 / 40
p0 −18.72 ± 0.06707
pull
Entries 41
Mean 1027
Std Dev 1008

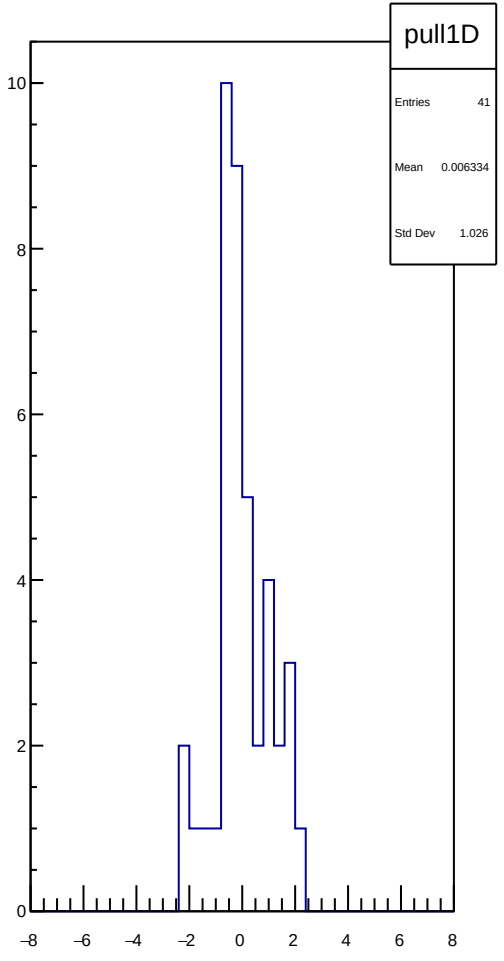

pull1D
Entries 41
Mean 0.01249
Std Dev 1.576

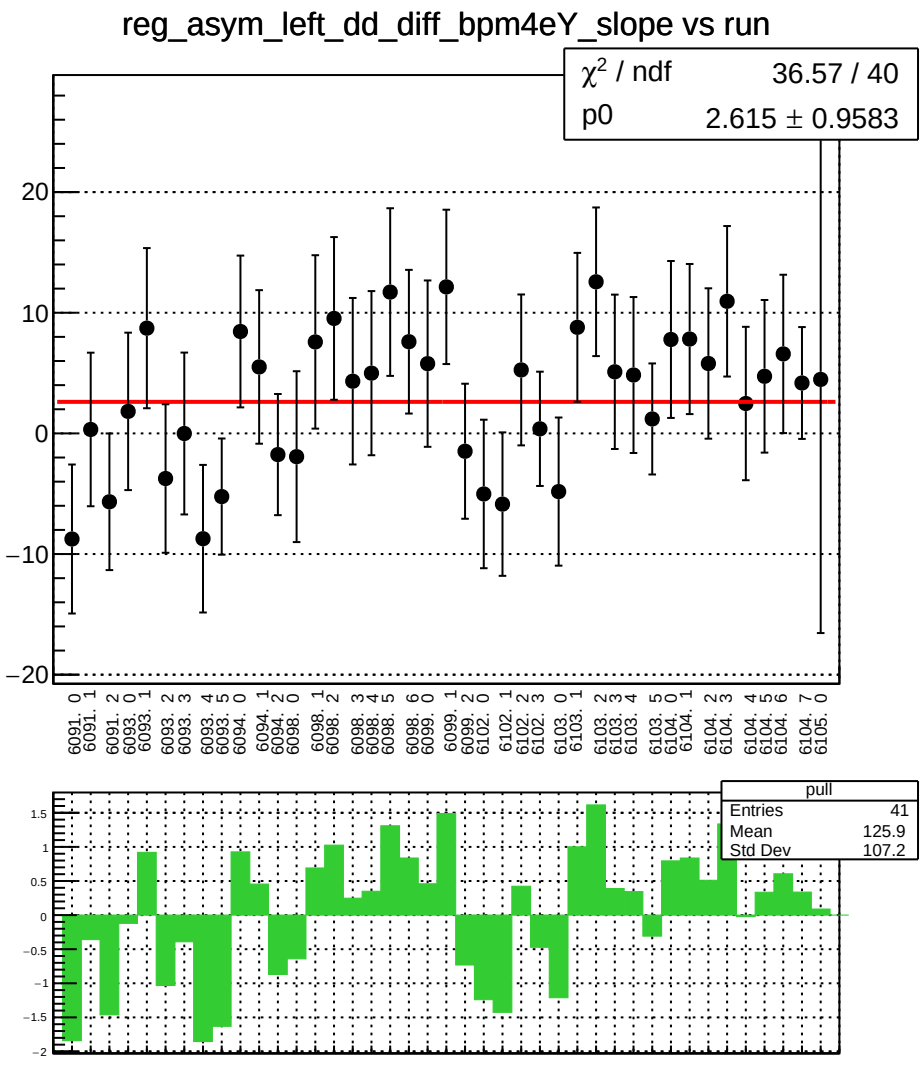

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.65 / 40
p0 −43.48 ± 1.358
pull
Entries 41
Mean −988.1
Std Dev 1005

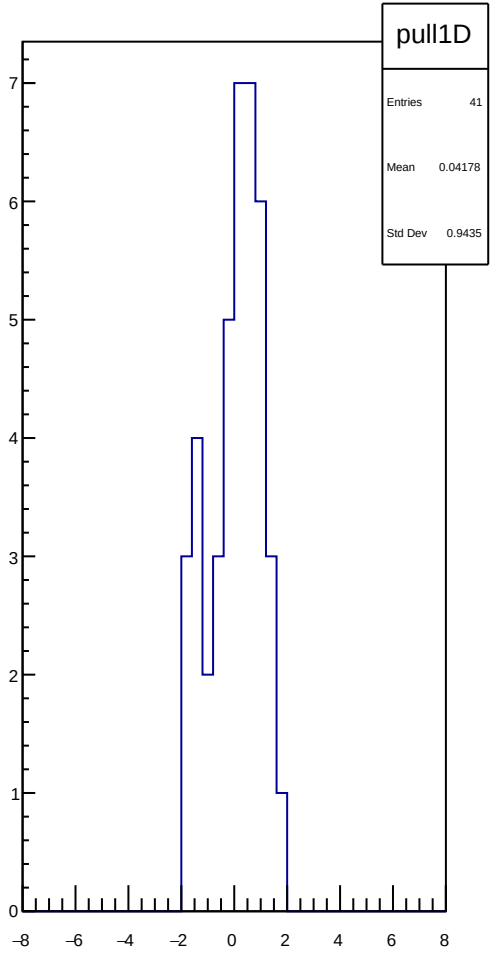

pull1D
Entries 41
Mean −0.006212
Std Dev 1.008

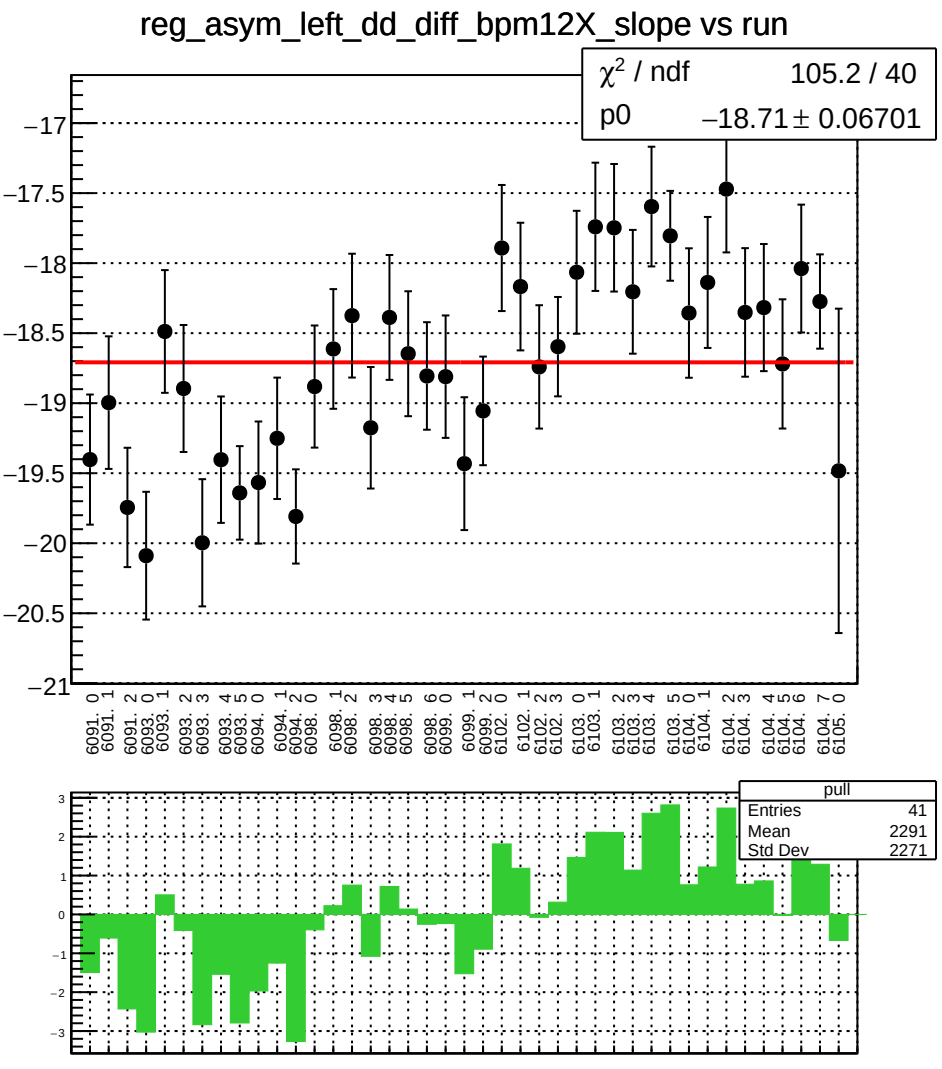

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.92 / 40
p0 6.064 ± 0.9104
20
10
0
−10
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 114
Std Dev 95.53
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.03613
Std Dev 0.9088
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

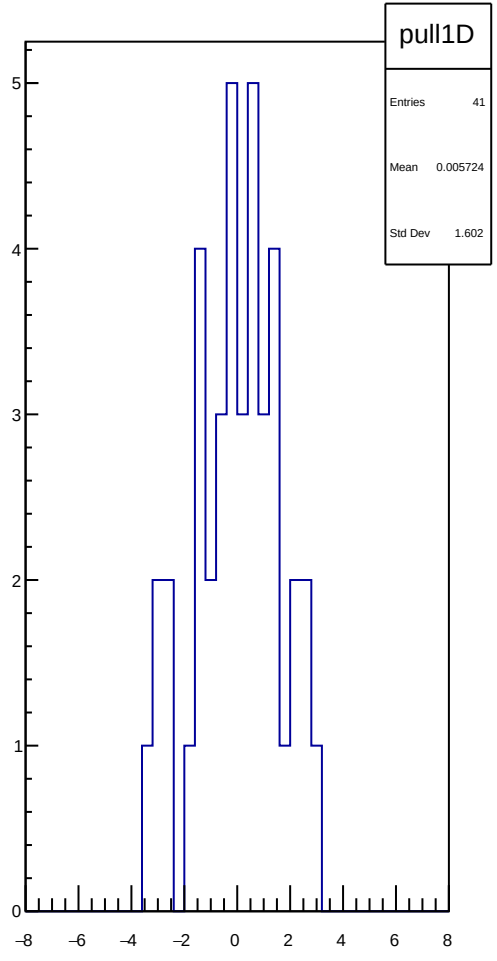

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.14 / 40
p0 26.92 ± 1.583
pull
Entries 41
Mean −1023
Std Dev 1041

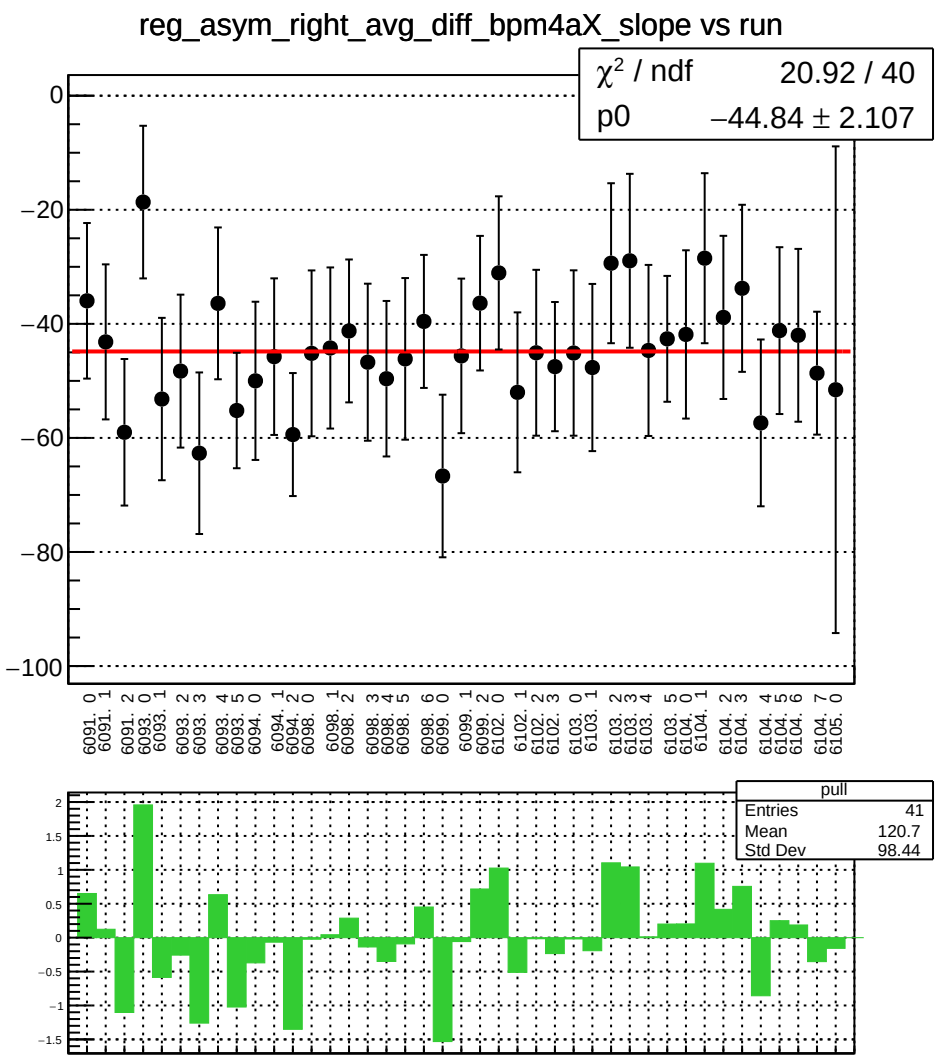

pull1D
Entries 41
Mean 0.006334
Std Dev 1.026

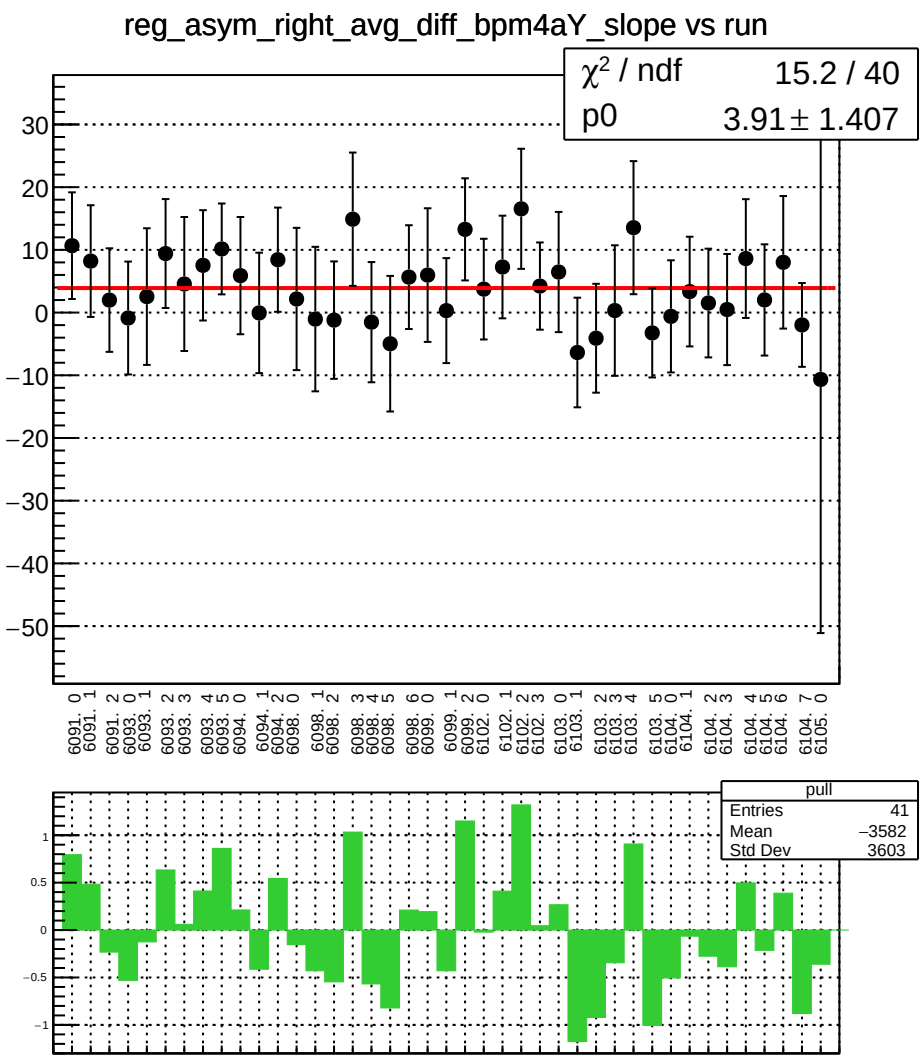

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.57 / 40
p0 2.615 ± 0.9583
pull
Entries 41
Mean 125.9
Std Dev 107.2

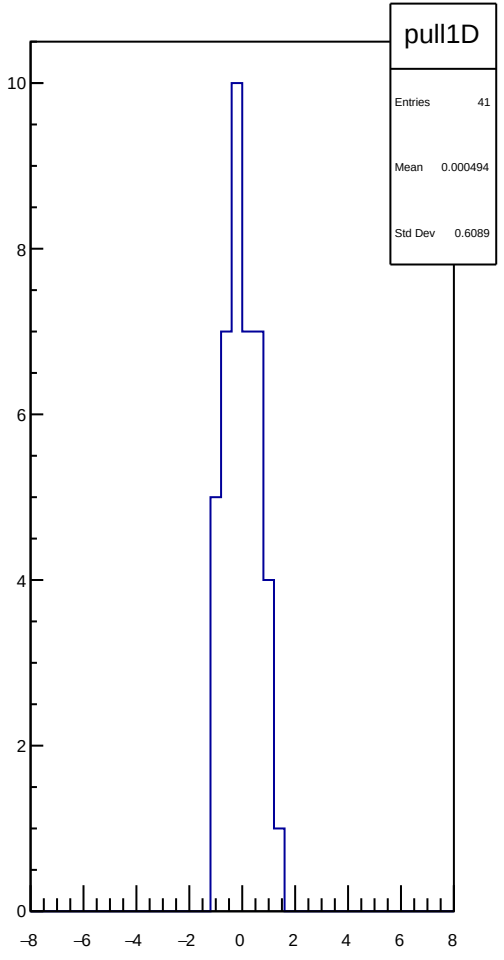

pull1D
Entries 41
Mean 0.04178
Std Dev 0.9435

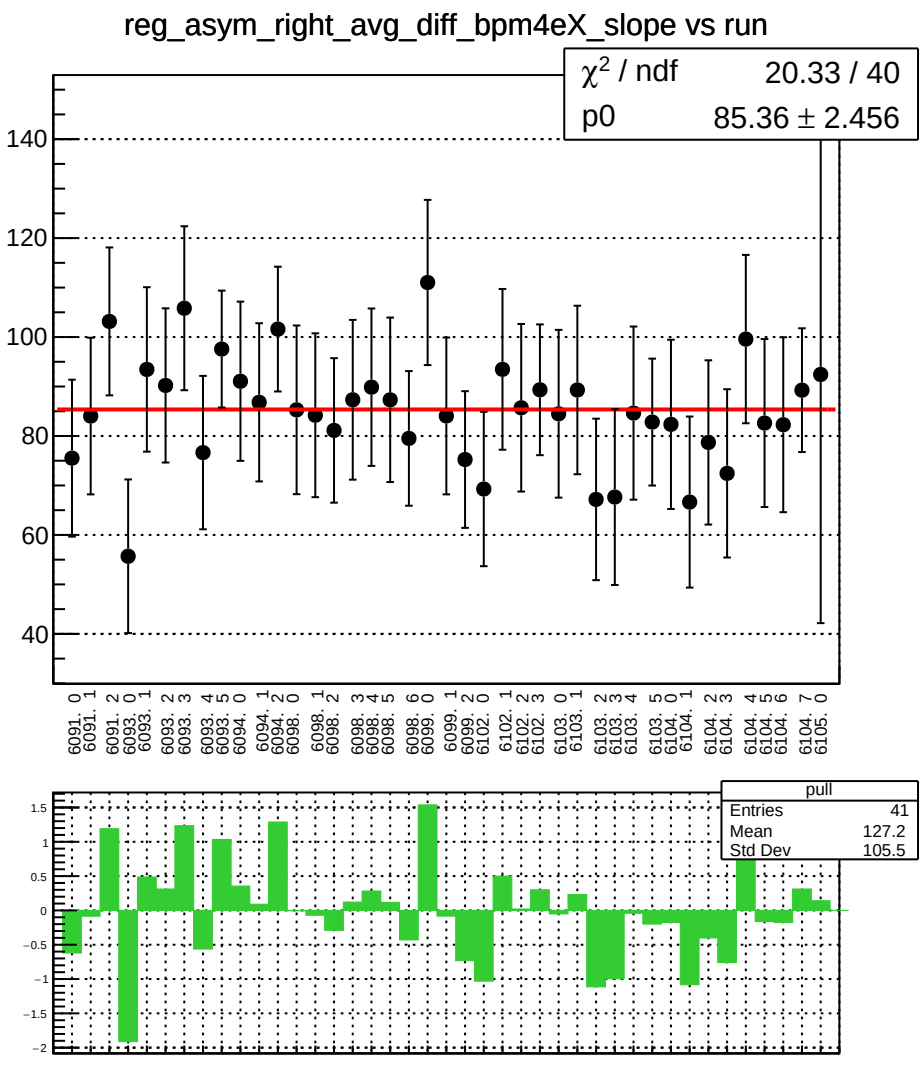

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 105.2 / 40
p0 −18.71 ± 0.06701
pull
Entries 41
Mean 2291
Std Dev 2271

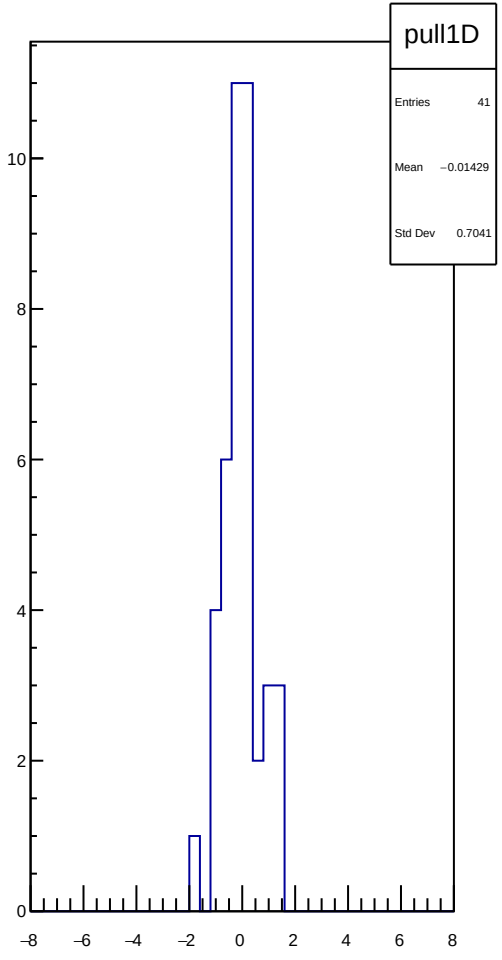

pull1D
Entries 41
Mean 0.005724
Std Dev 1.602

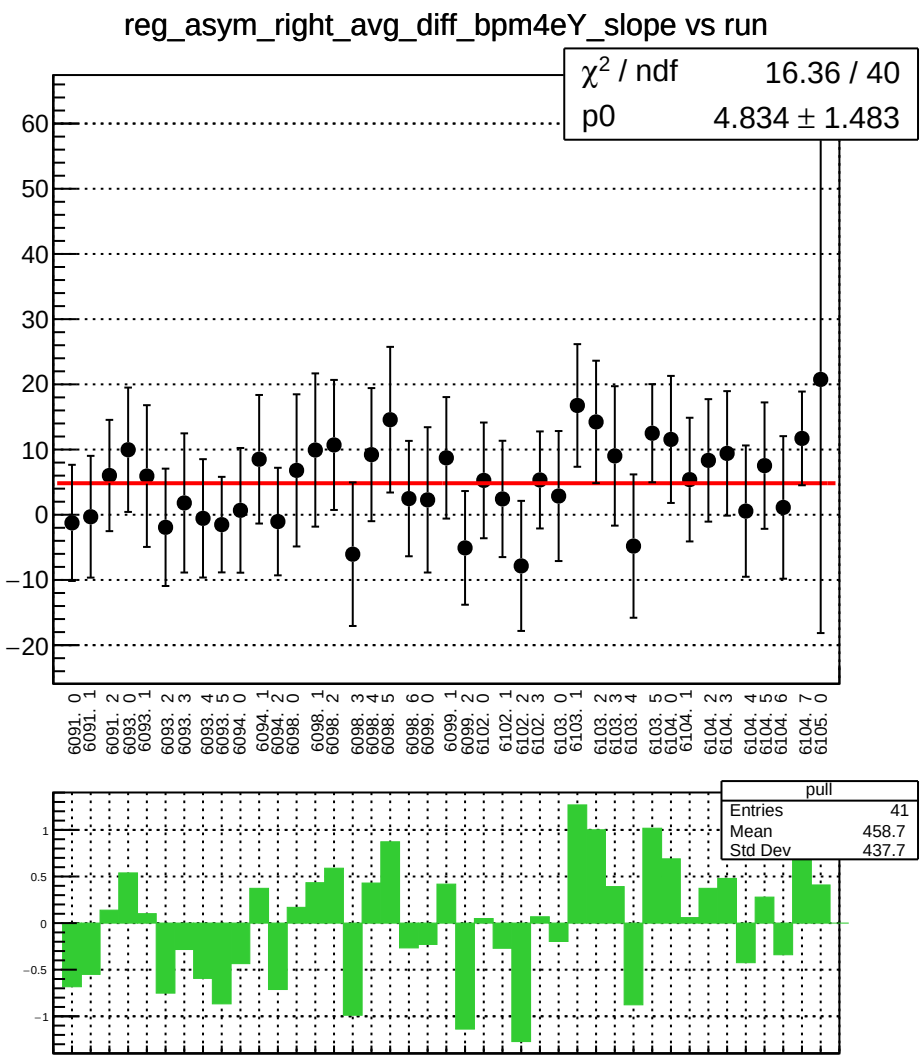

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.92 / 40
p0 −44.84 ± 2.107
0
−20
−40
−60
−80
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 120.7
Std Dev 98.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01489
Std Dev 0.7142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

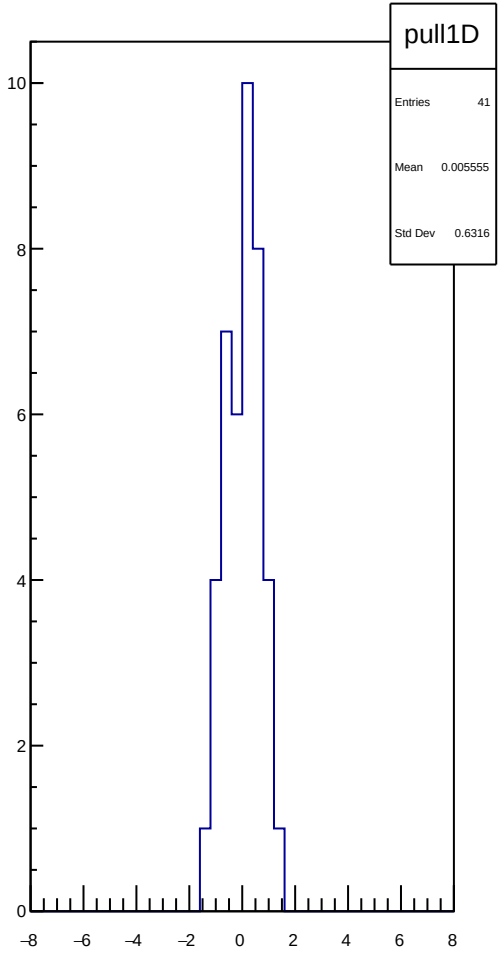

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.2 / 40
p0 3.91 ± 1.407
pull
Entries 41
Mean −3582
Std Dev 3603

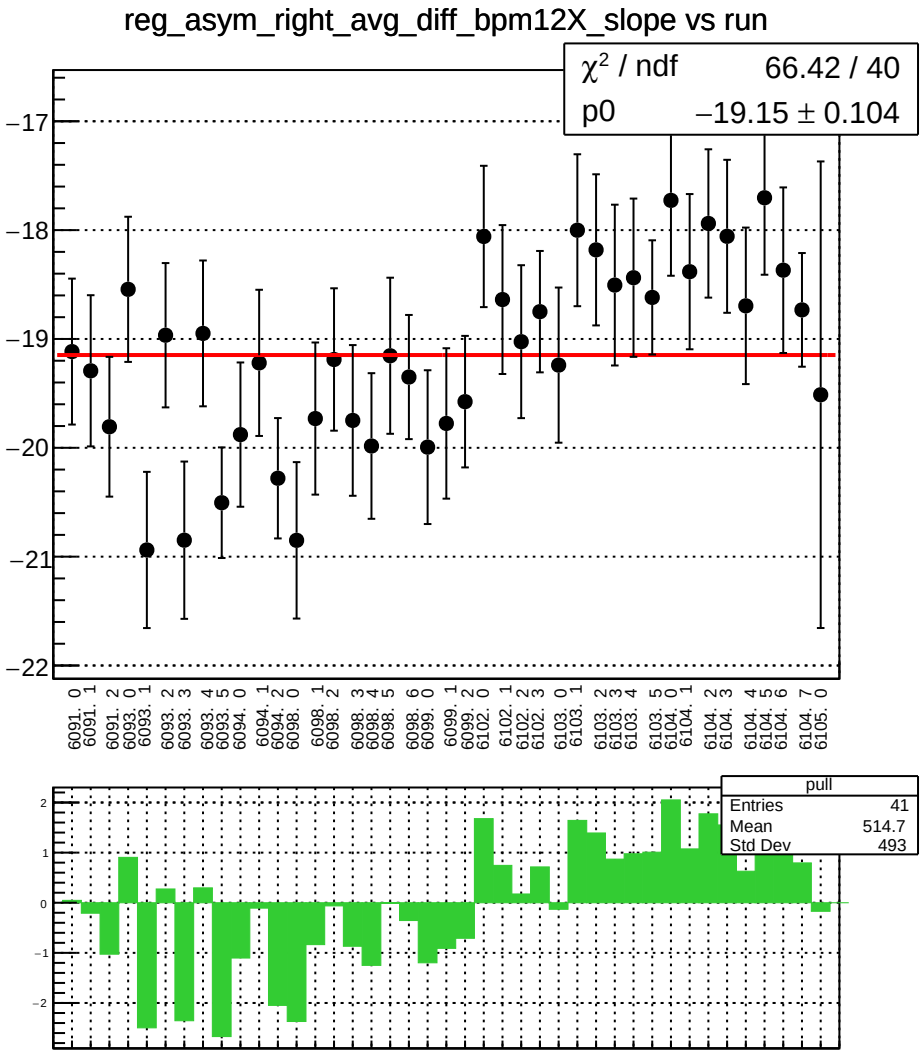

pull1D
Entries 41
Mean 0.000494
Std Dev 0.6089

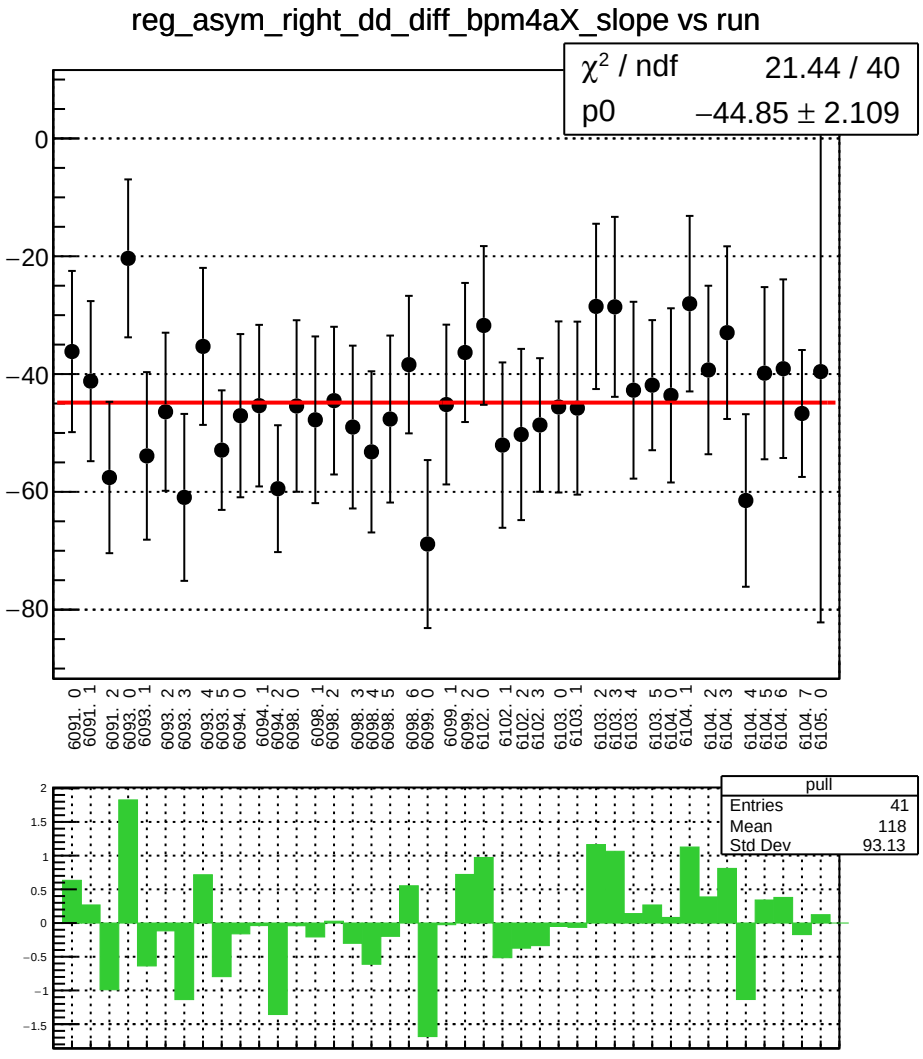

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.33 / 40
p0 85.36 ± 2.456
140
120
100
80
60
40
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 127.2
Std Dev 105.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

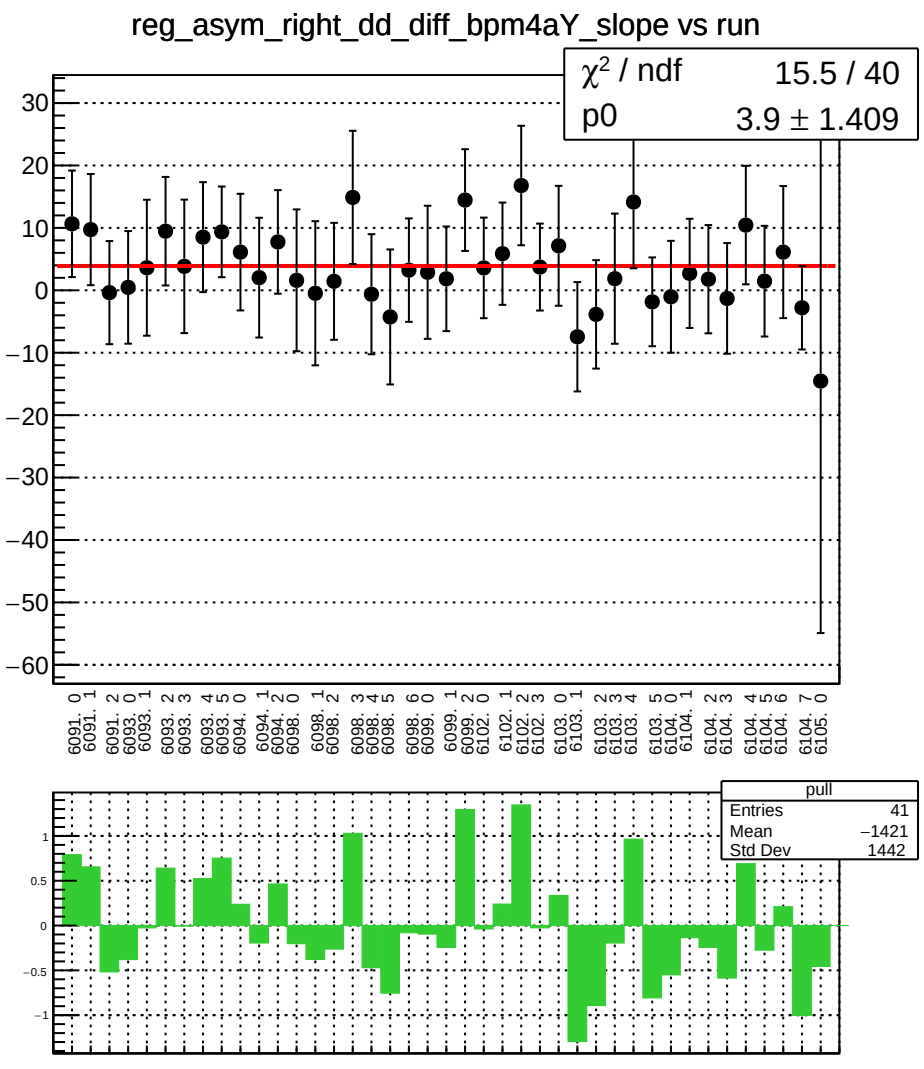

pull1D
Entries 41
Mean −0.01429
Std Dev 0.7041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

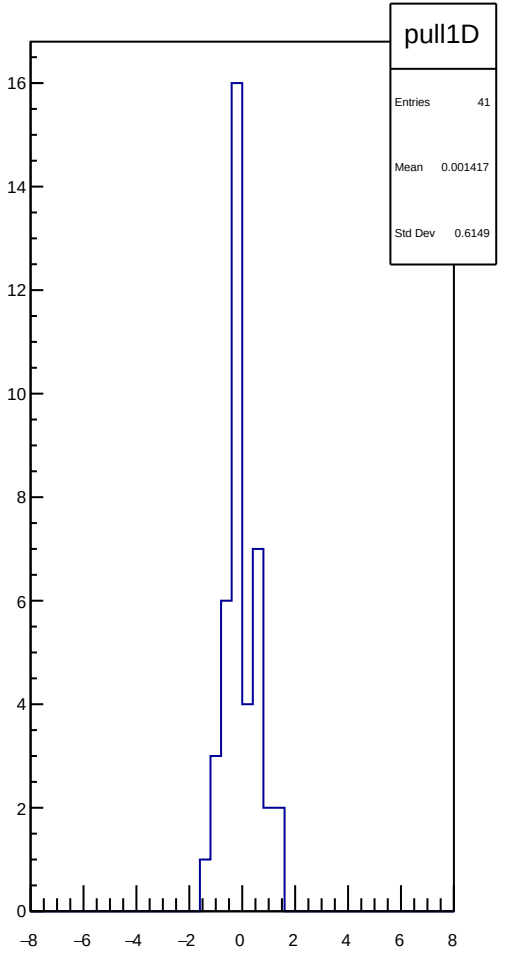

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.36 / 40
p0 4.834 ± 1.483
pull
Entries 41
Mean 458.7
Std Dev 437.7

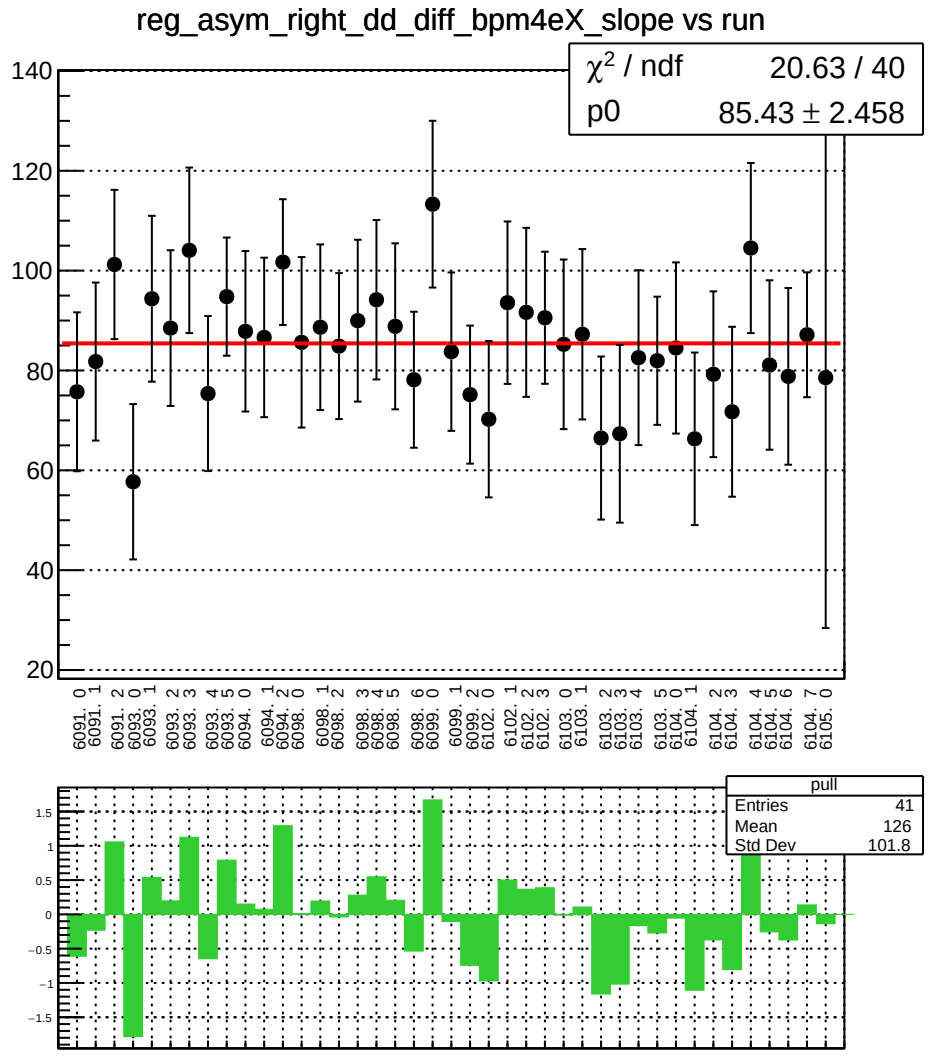

pull1D
Entries 41
Mean 0.005555
Std Dev 0.6316

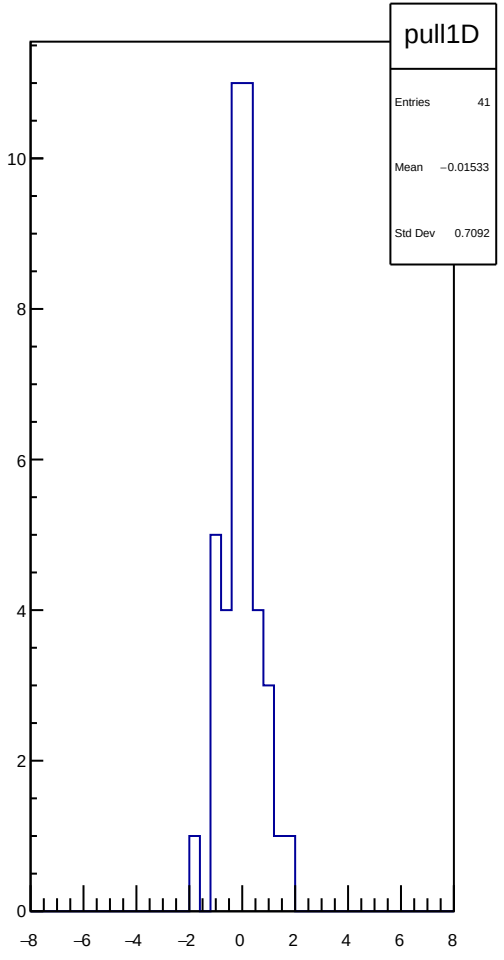

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 66.42 / 40
p0 −19.15 ± 0.104
−17
−18
−19
−20
−21
−22
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 514.7
Std Dev 493
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01937
Std Dev 1.273
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

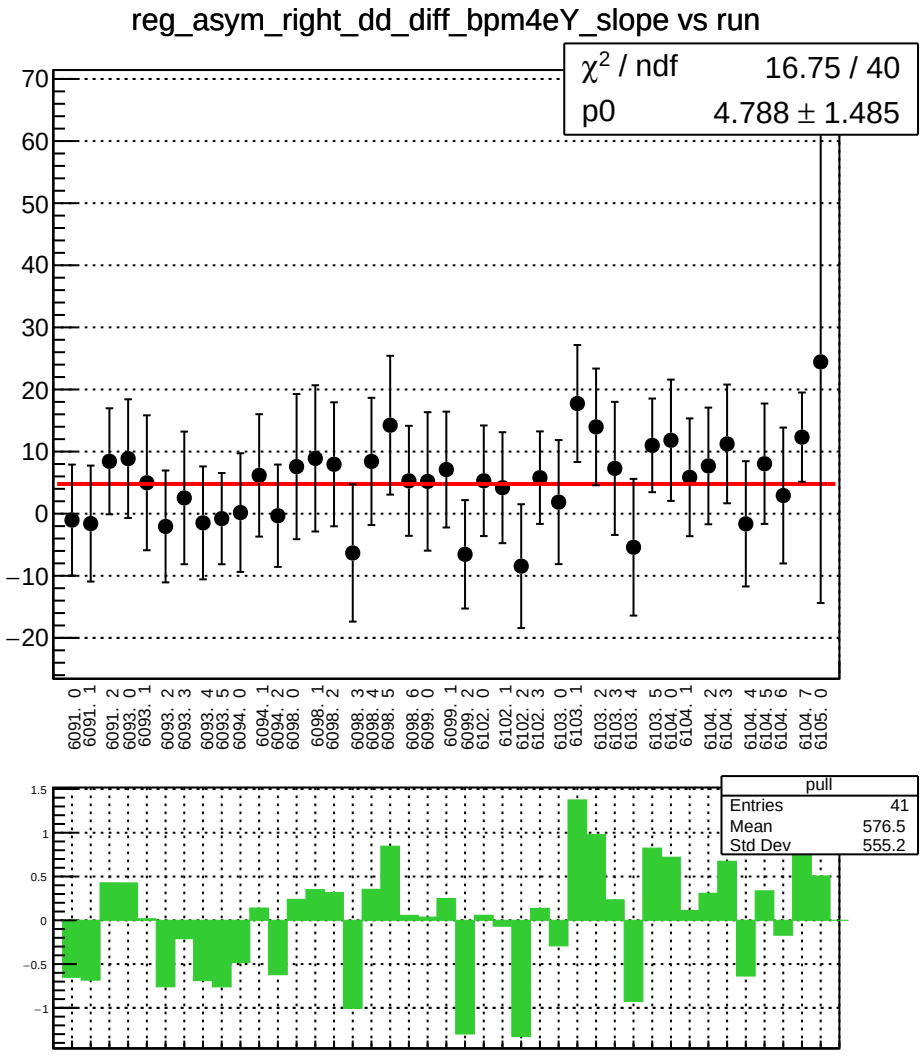

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.44 / 40
p0 −44.85 ± 2.109
0
−20
−40
−60
−80
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 118
Std Dev 93.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01639
Std Dev 0.723
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

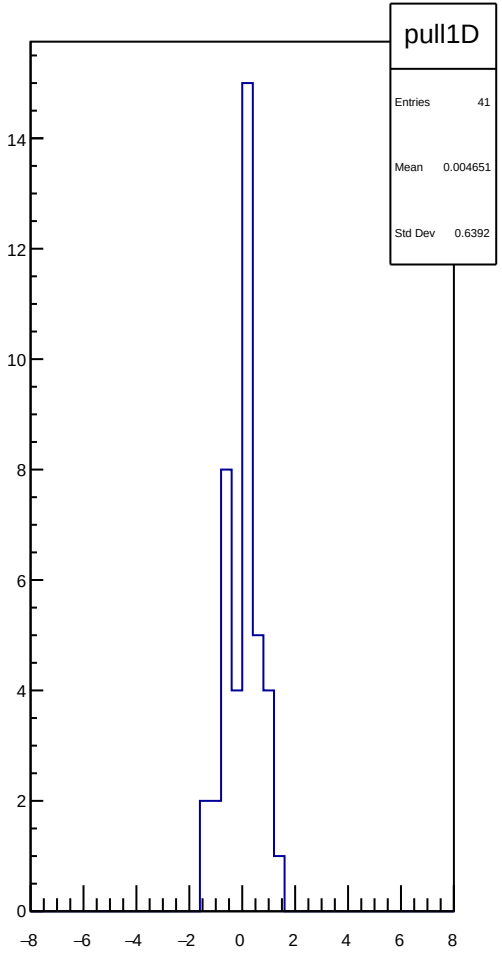

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.5 / 40
p0 3.9 ± 1.409
30
20
10
0
−10
−20
−30
−40
−50
−60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1421
Std Dev 1442
1
0.5
0
−0.5
−1

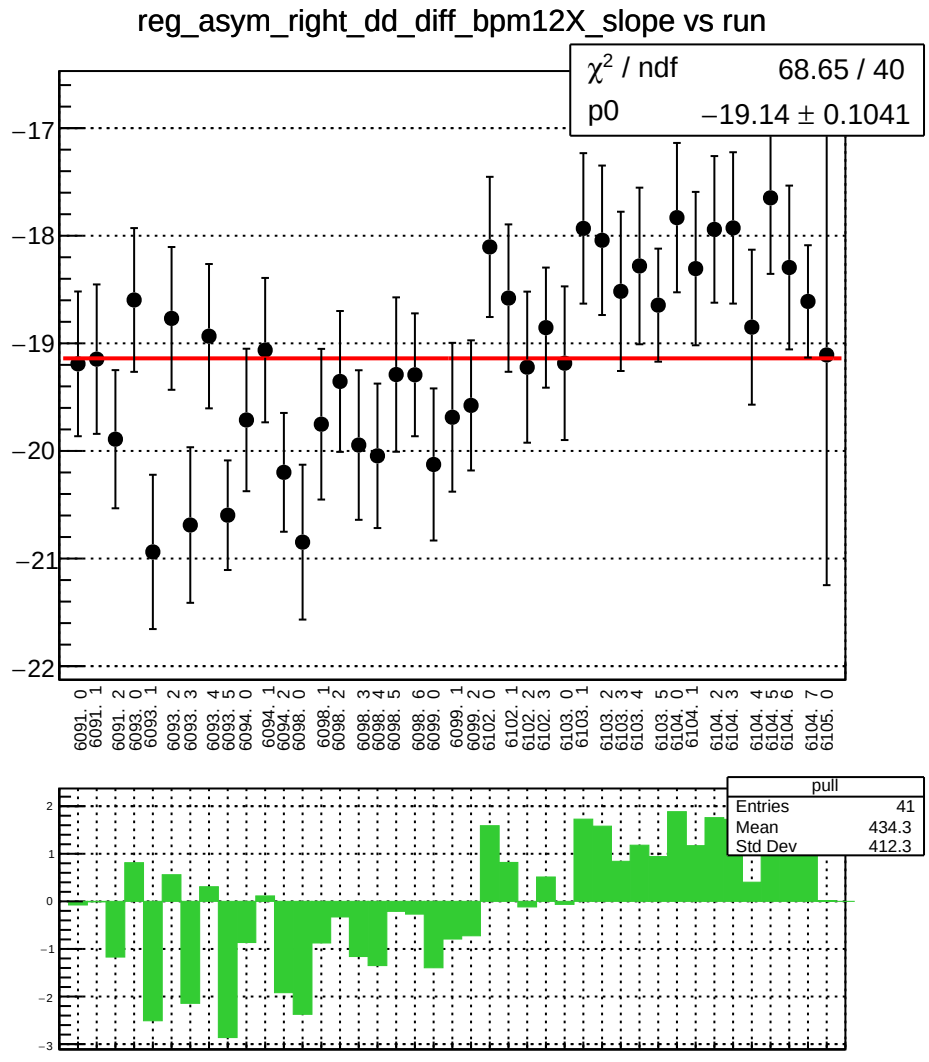

pull1D
Entries 41
Mean 0.001417
Std Dev 0.6149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

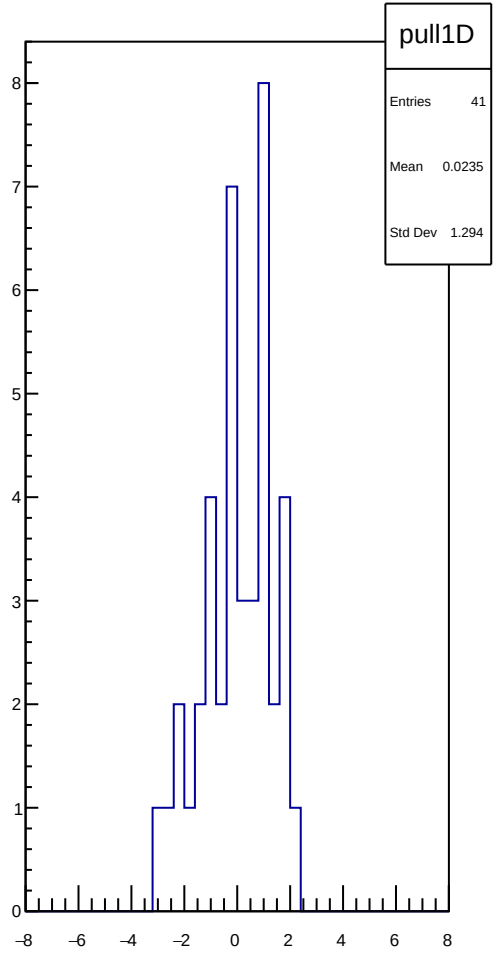

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.63 / 40
p0 85.43 ± 2.458
140
120
100
80
60
40
20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 126
Std Dev 101.8
1.5
1
0.5
0
−0.5
−1
−1.5

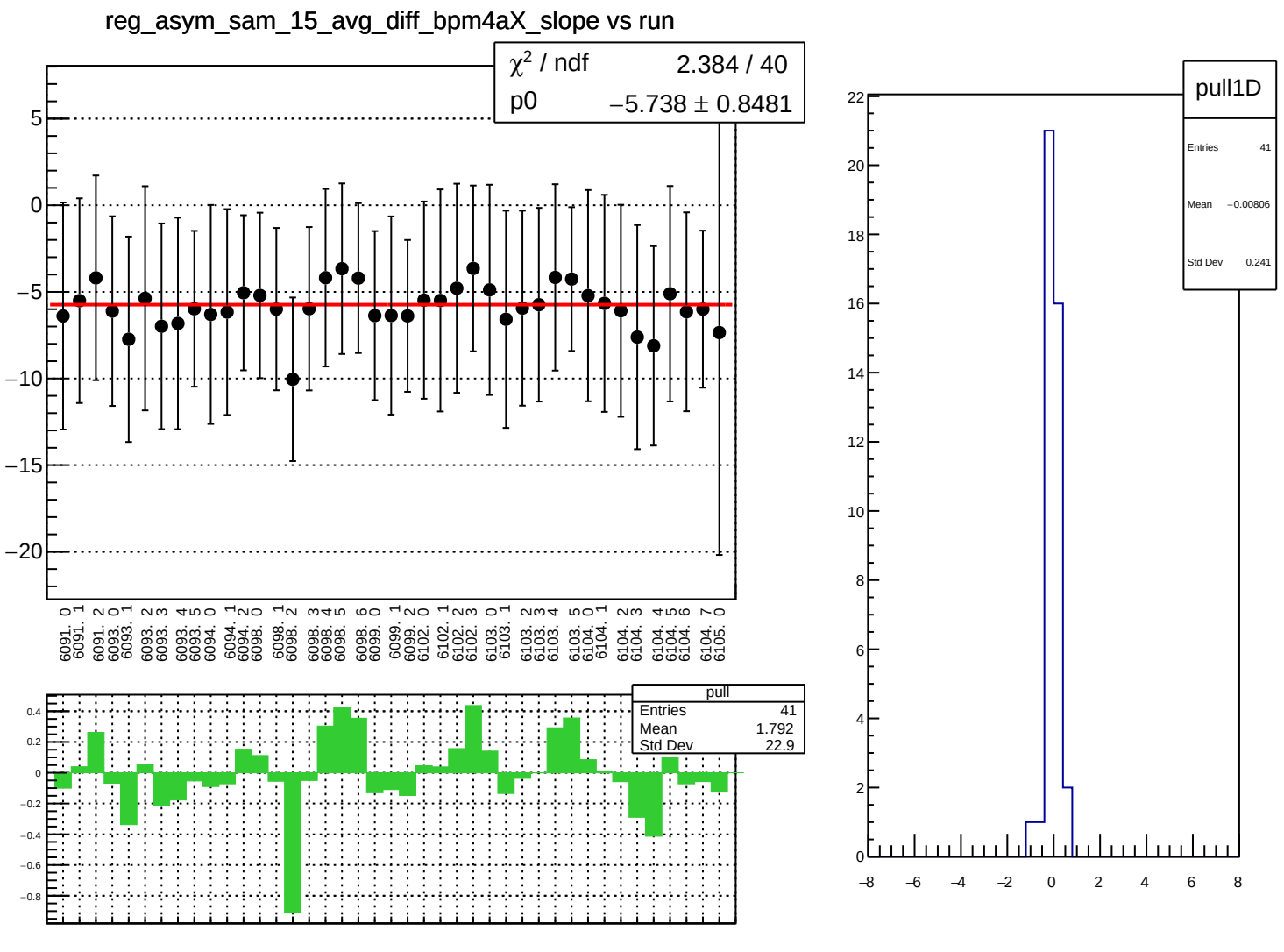

pull1D
Entries 41
Mean −0.01533
Std Dev 0.7092
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

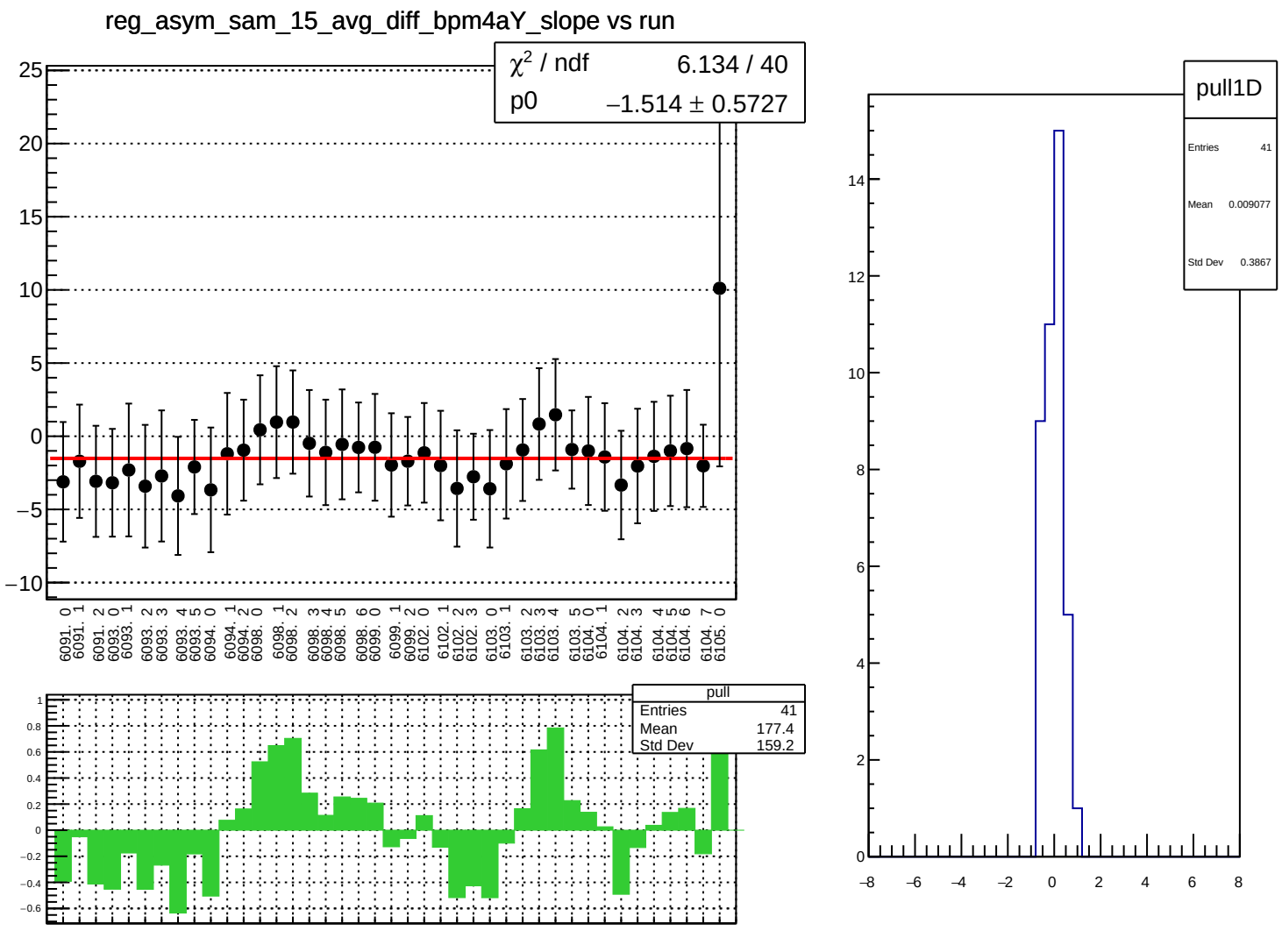

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.75 / 40
p0 4.788 ± 1.485
pull
Entries 41
Mean 576.5
Std Dev 555.2

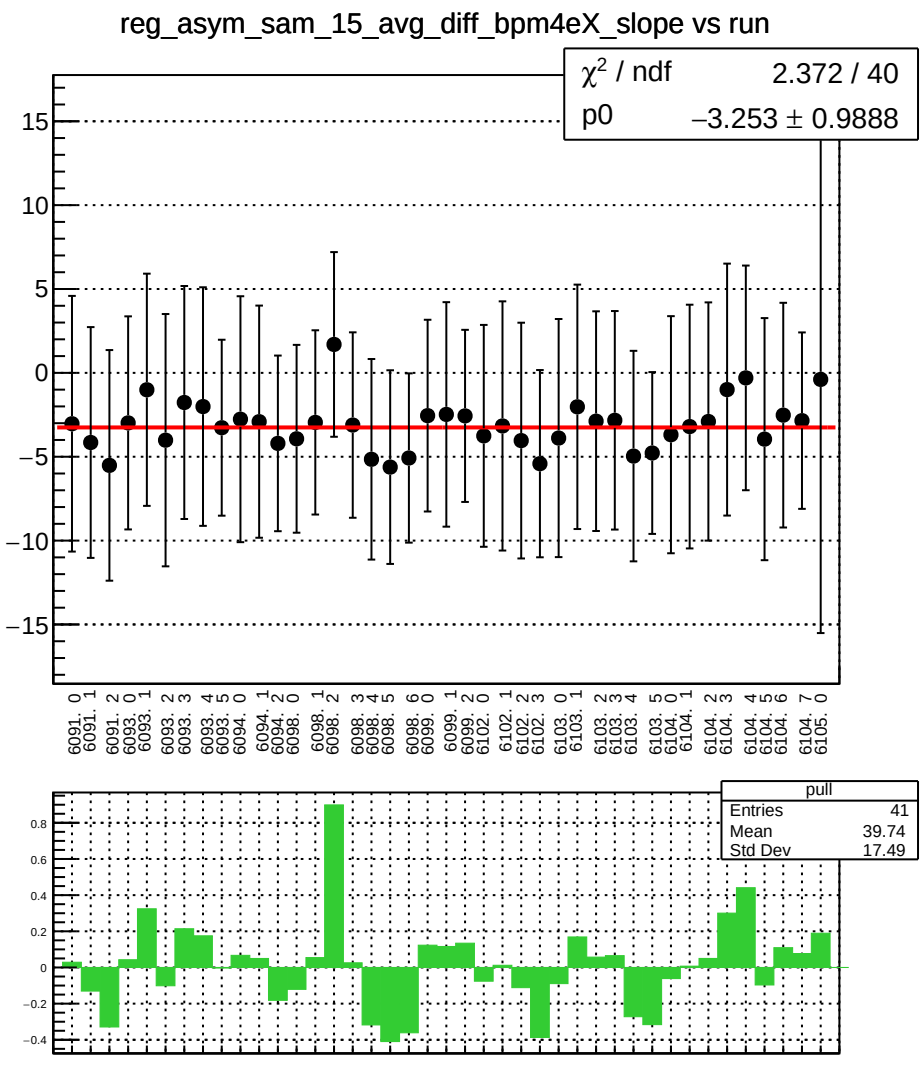

pull1D
Entries 41
Mean 0.004651
Std Dev 0.6392

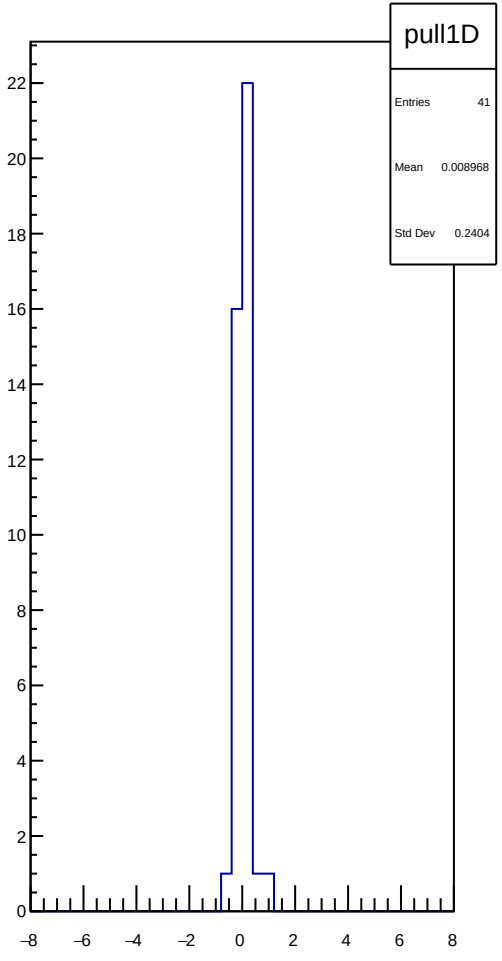

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 68.65 / 40
p0 −19.14 ± 0.1041
pull
Entries 41
Mean 434.3
Std Dev 412.3

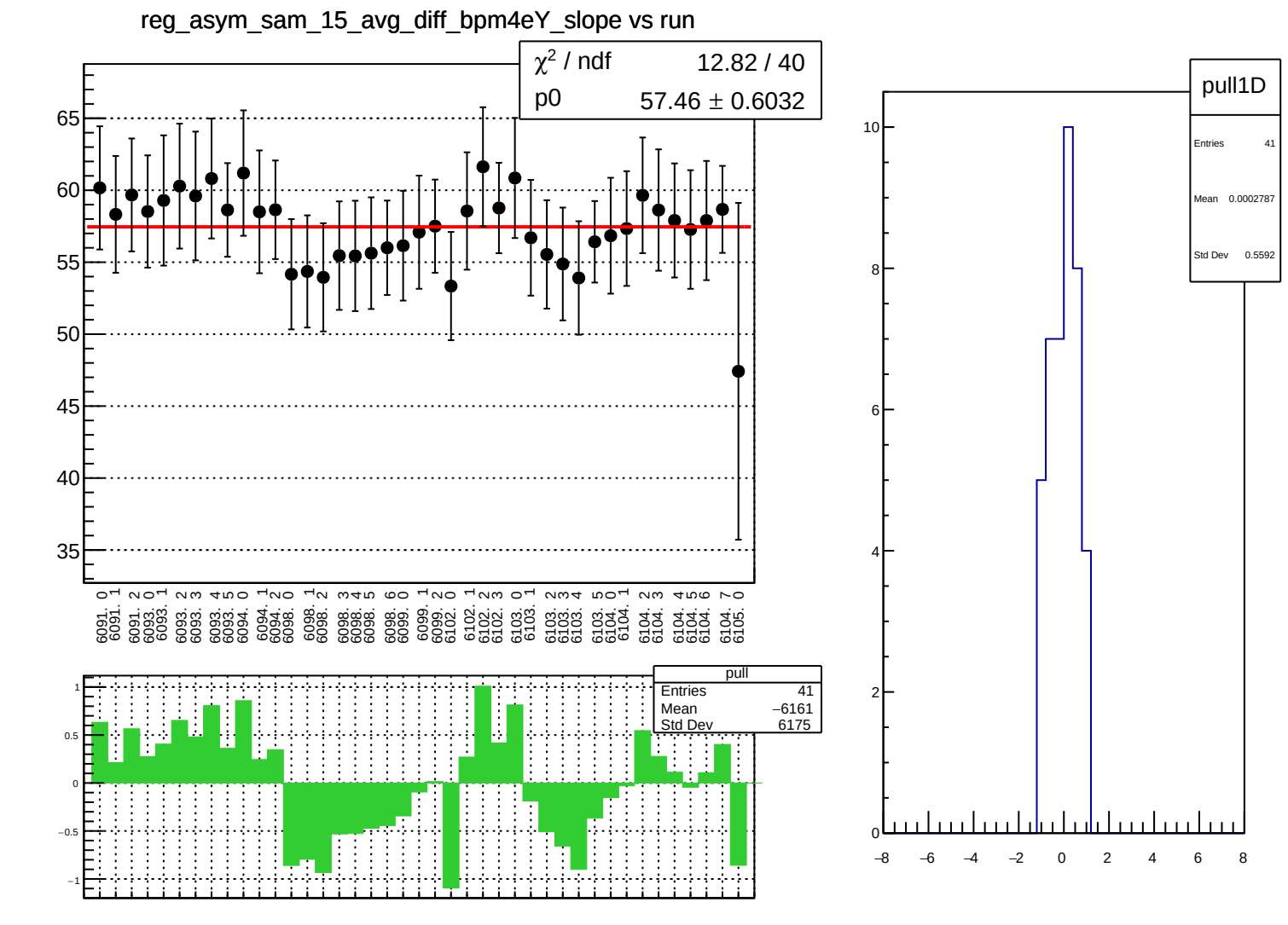

pull1D
Entries 41
Mean 0.0235
Std Dev 1.294

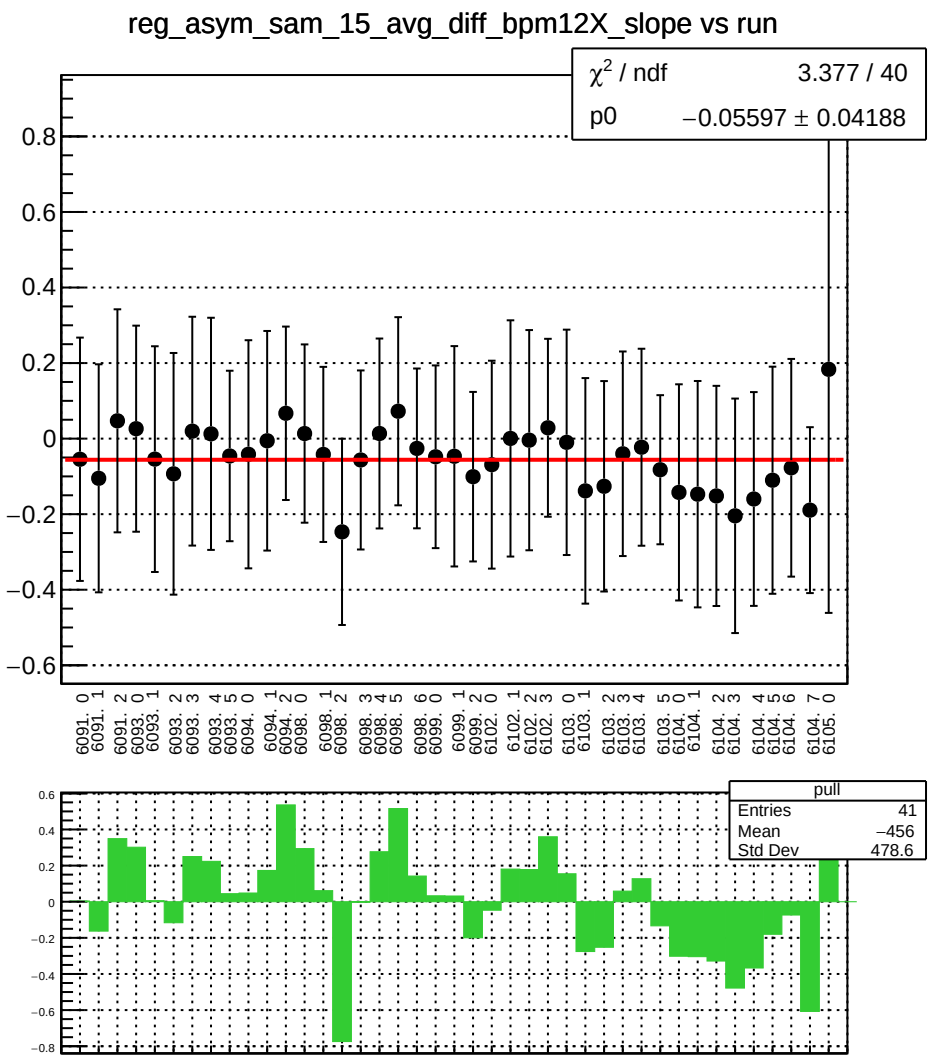

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.384 / 40
p0 −5.738 ± 0.8481
pull
Entries 41
Mean 1.792
Std Dev 22.9
pull1D
Entries 41
Mean −0.00806
Std Dev 0.241

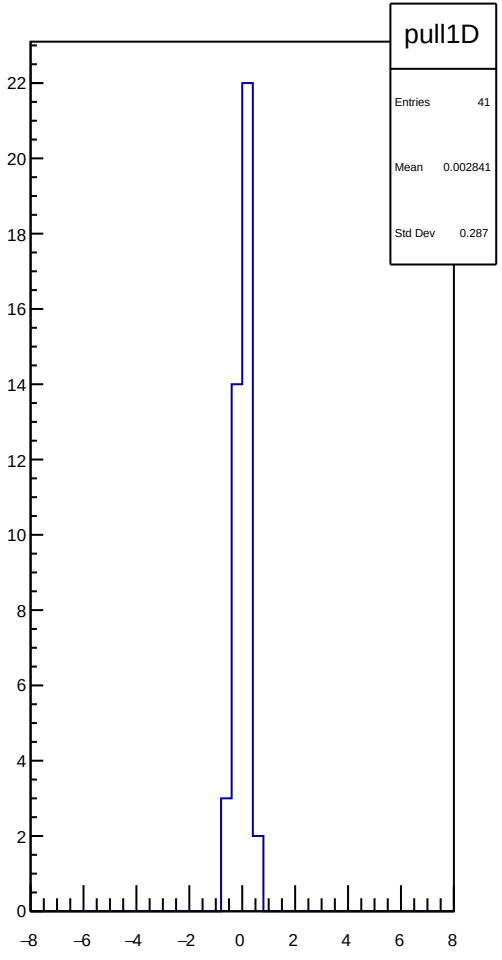

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.134 / 40
p0 −1.514 ± 0.5727
pull
Entries 41
Mean 177.4
Std Dev 159.2
pull1D
Entries 41
Mean 0.009077
Std Dev 0.3867

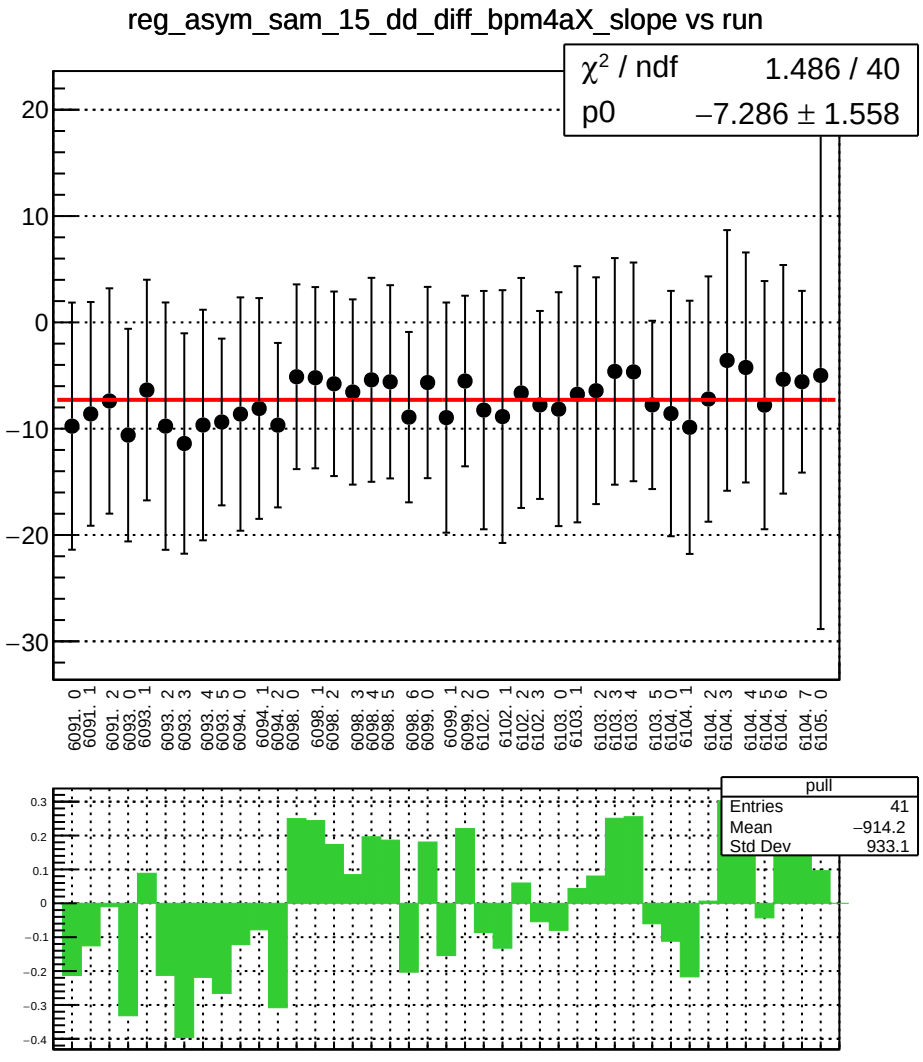

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.372 / 40
p0 −3.253 ± 0.9888
pull
Entries 41
Mean 39.74
Std Dev 17.49

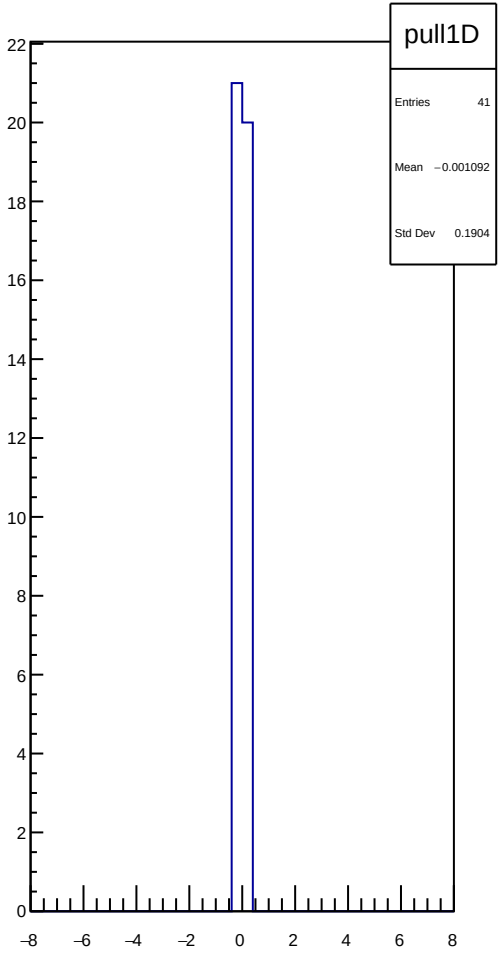

pull1D
Entries 41
Mean 0.008968
Std Dev 0.2404

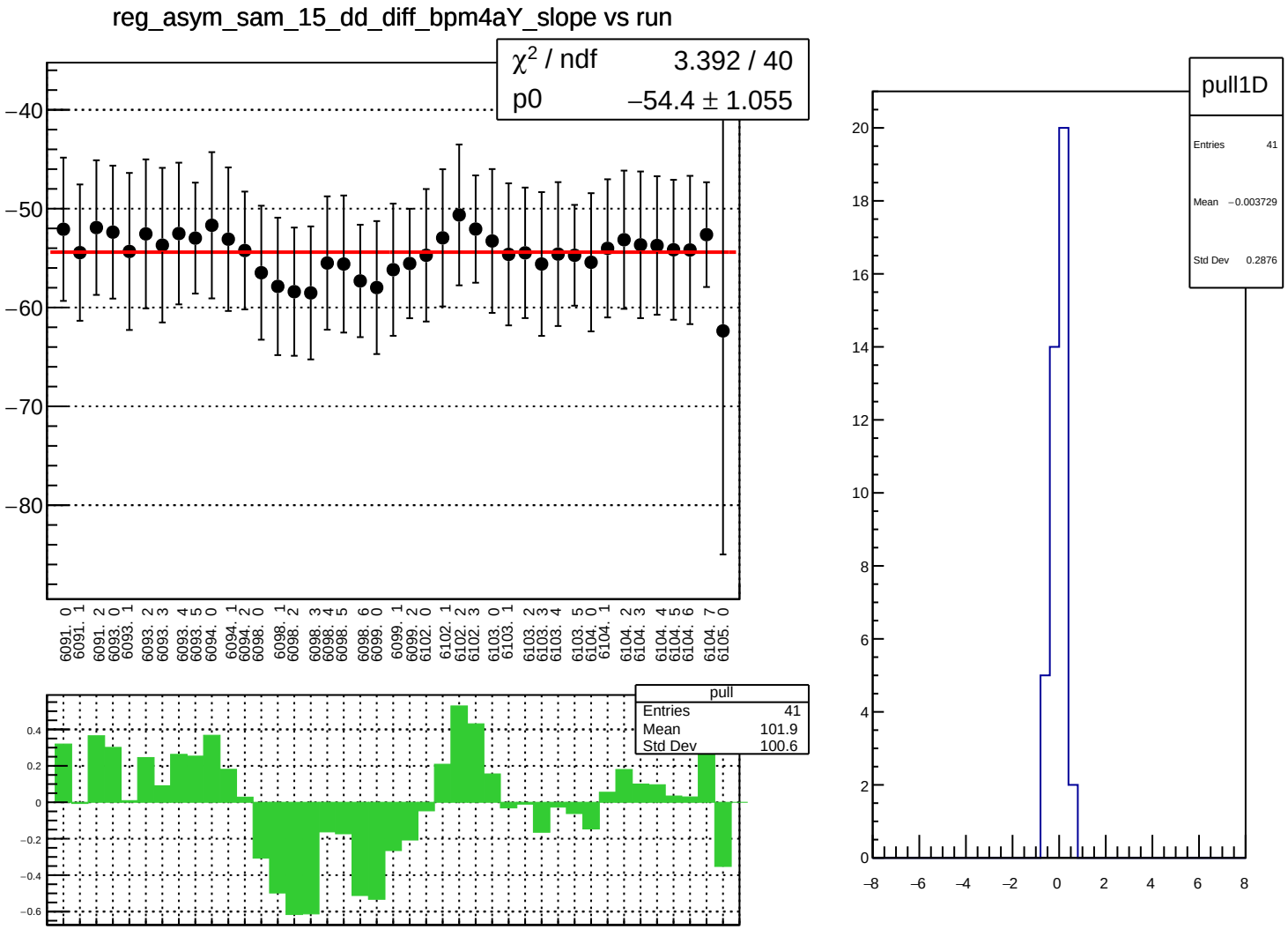

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.82 / 40
p0 57.46 ± 0.6032
65
60
55
50
45
40
35
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −6161
Std Dev 6175
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0002787
Std Dev 0.5592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

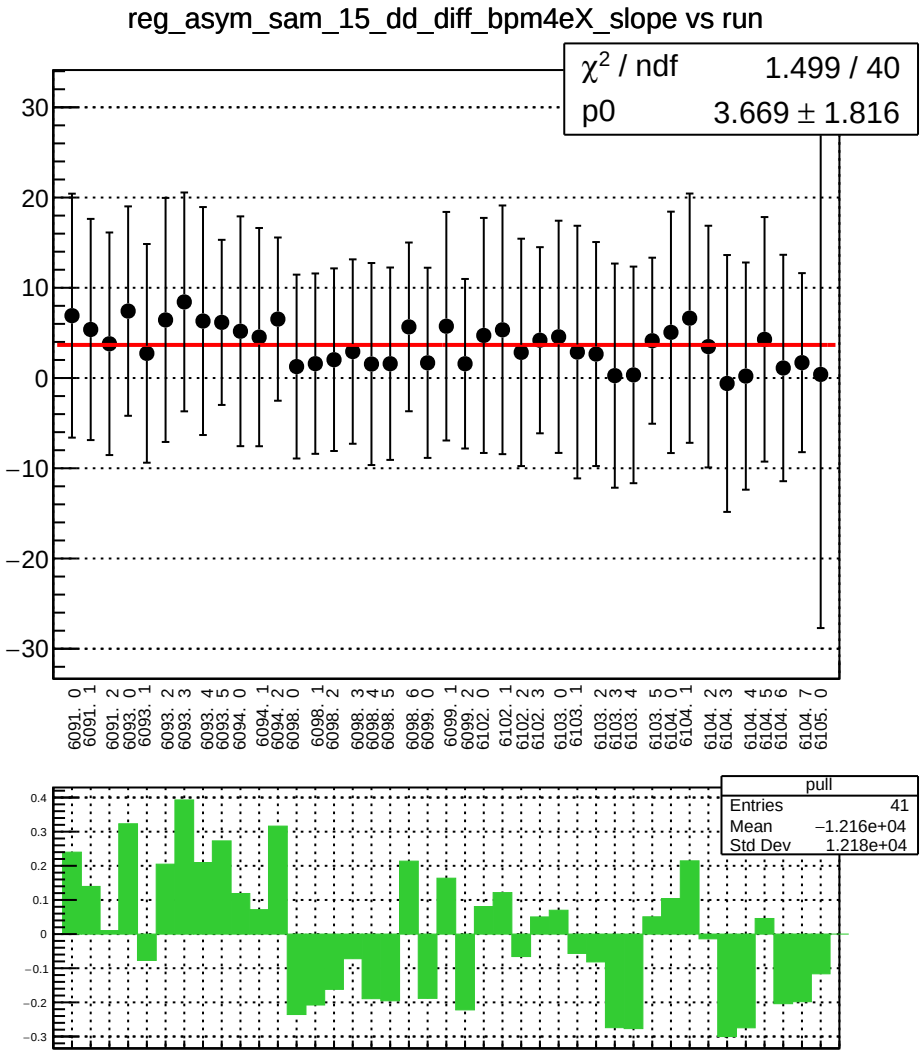

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 3.377 / 40
p0 −0.05597 ± 0.04188
pull
Entries 41
Mean −456
Std Dev 478.6

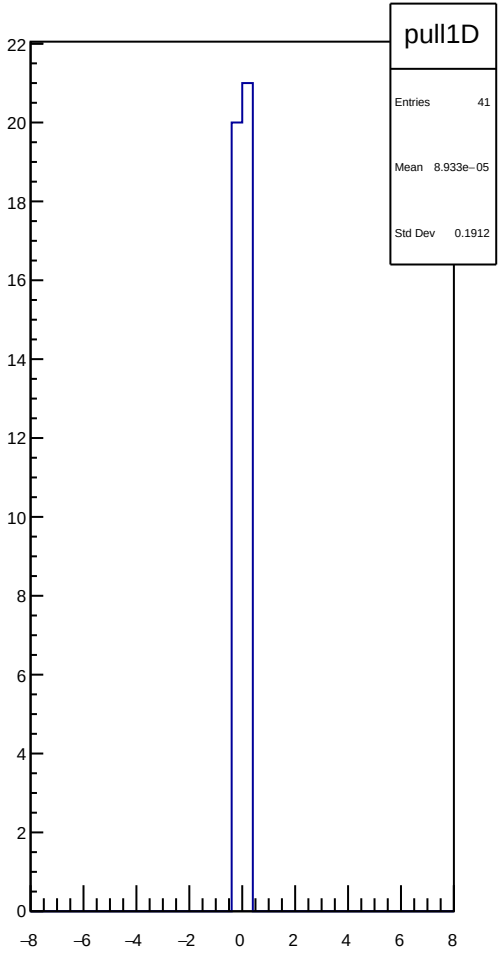

pull1D
Entries 41
Mean 0.002841
Std Dev 0.287

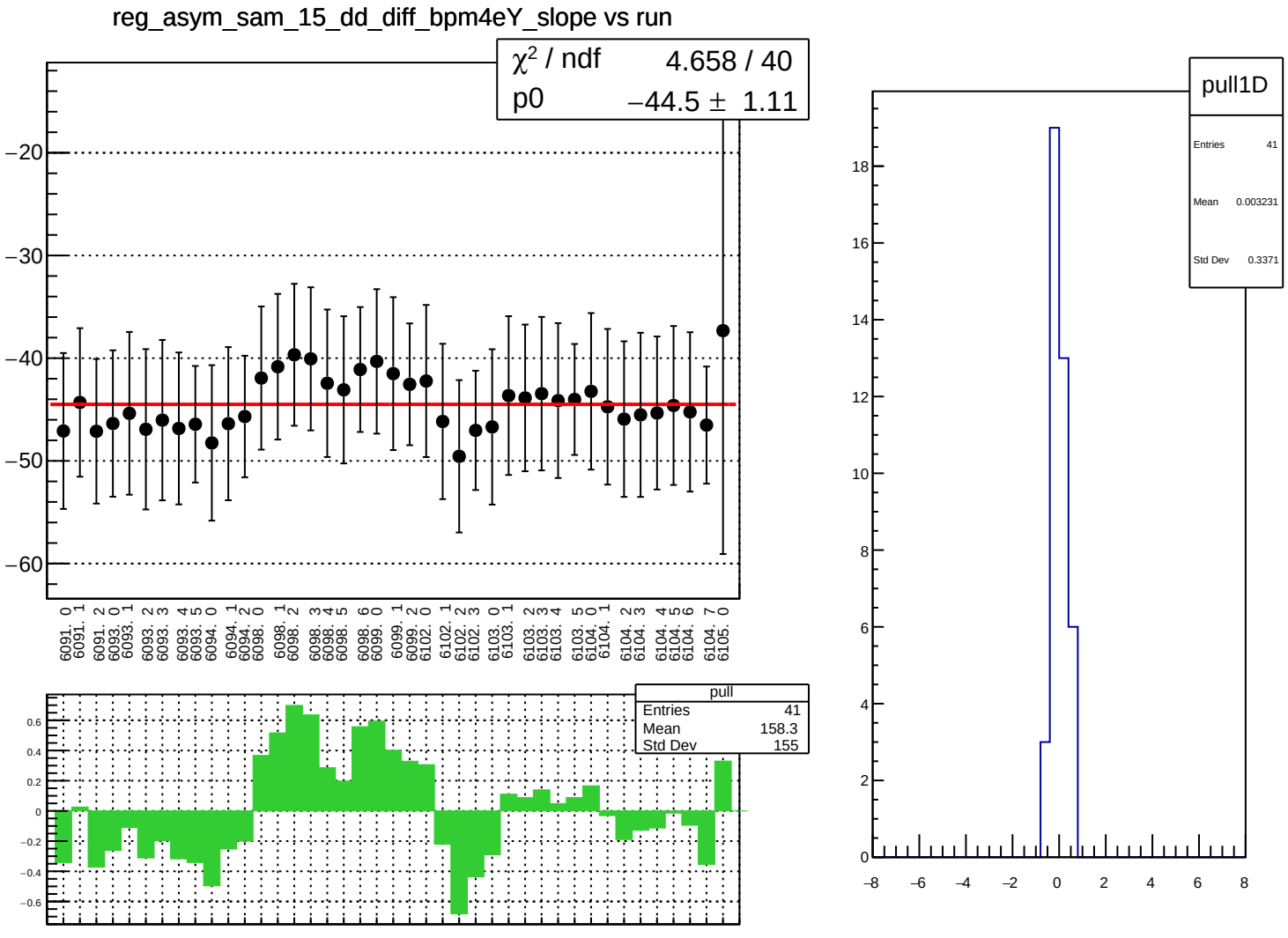

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.486 / 40
p0 −7.286 ± 1.558
pull
Entries 41
Mean −914.2
Std Dev 933.1

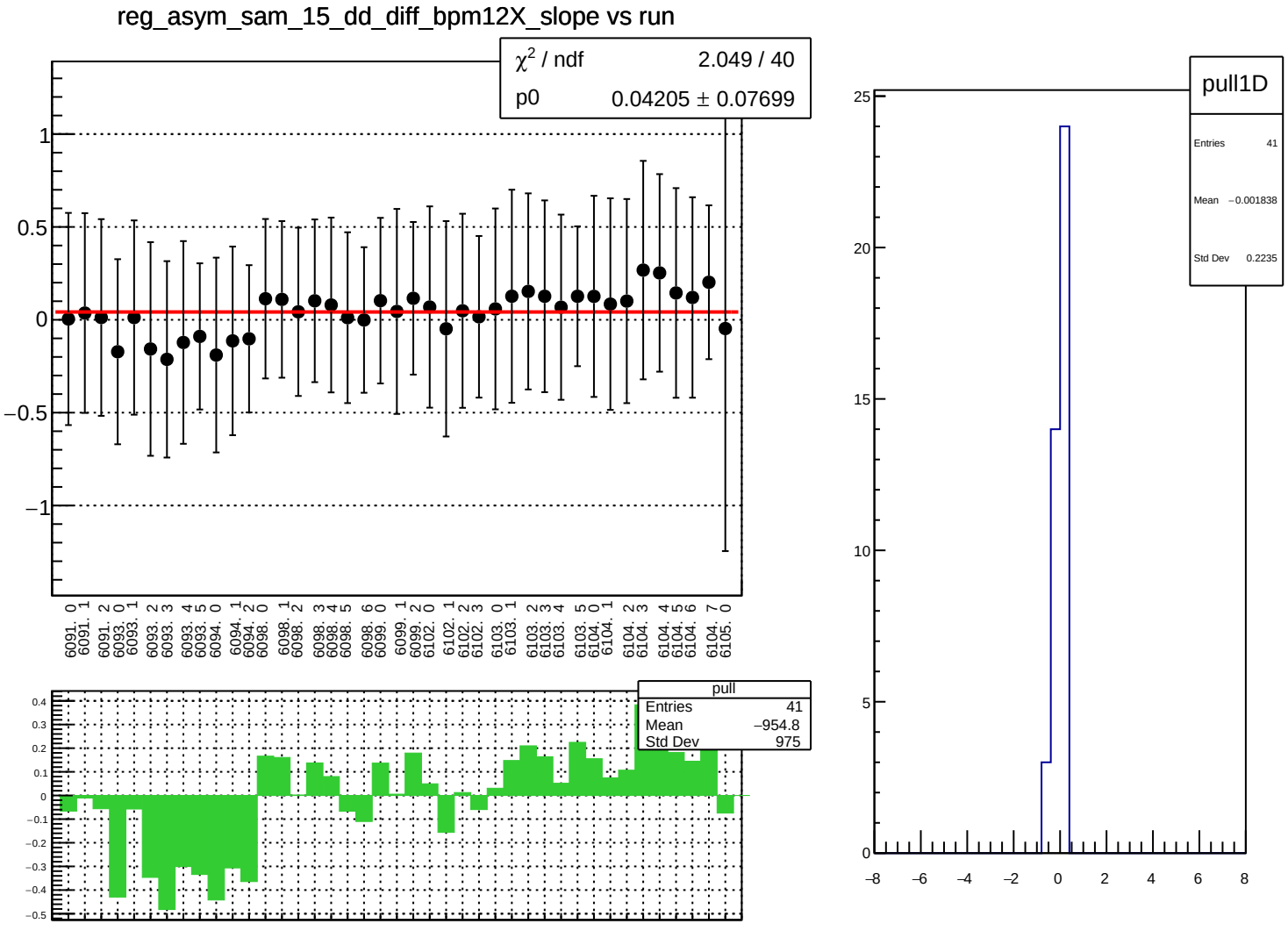

pull1D
Entries 41
Mean −0.001092
Std Dev 0.1904

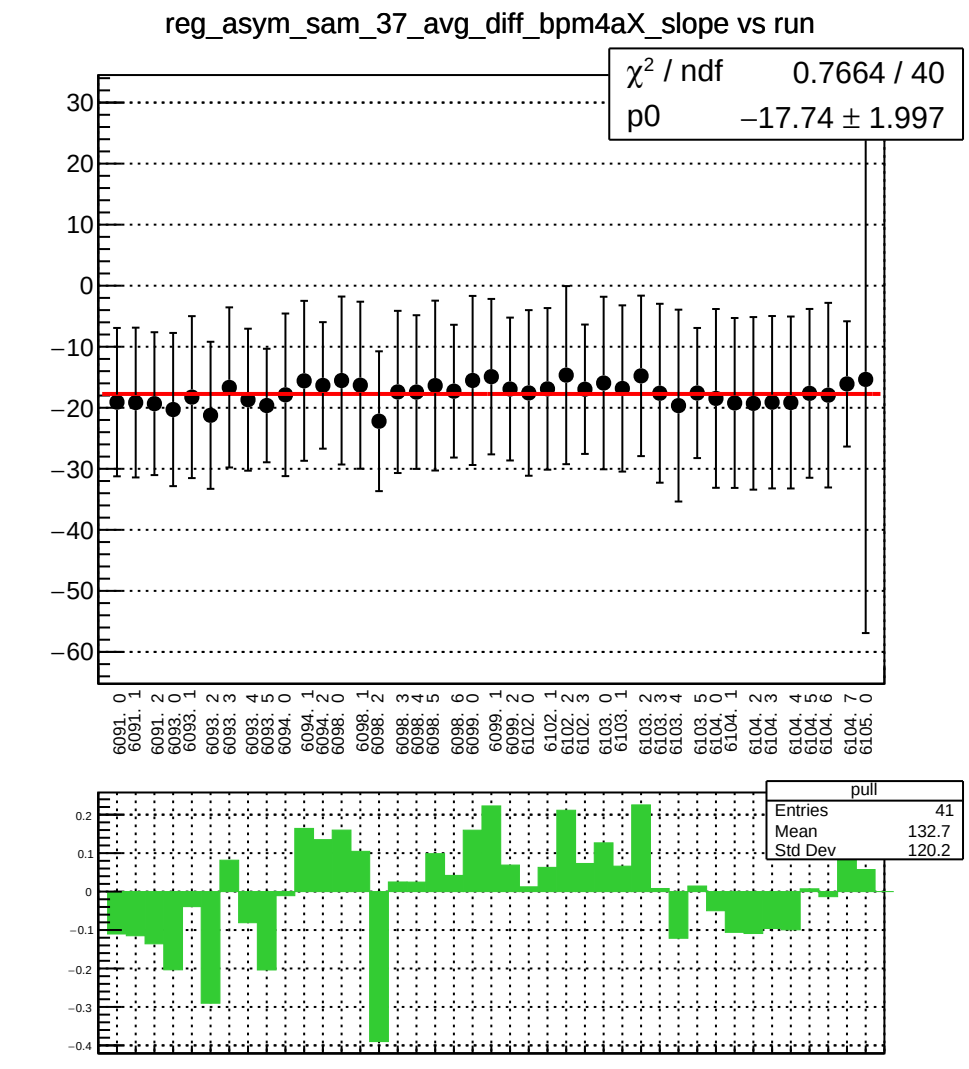

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.392 / 40
p0 −54.4 ± 1.055
−40
−50
−60
−70
−80
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 101.9
Std Dev 100.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.003729
Std Dev 0.2876
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

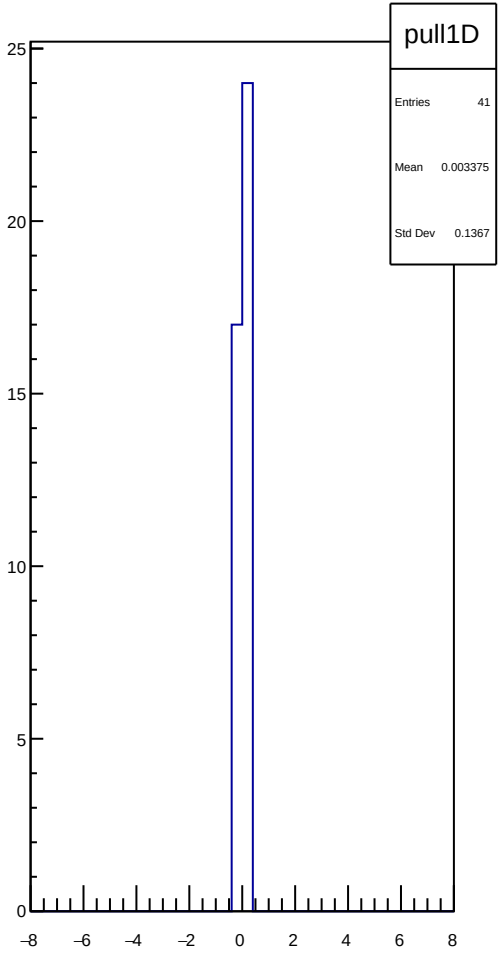

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.499 / 40
p0 3.669 ± 1.816
pull
Entries 41
Mean −1.216e+04
Std Dev 1.218e+04

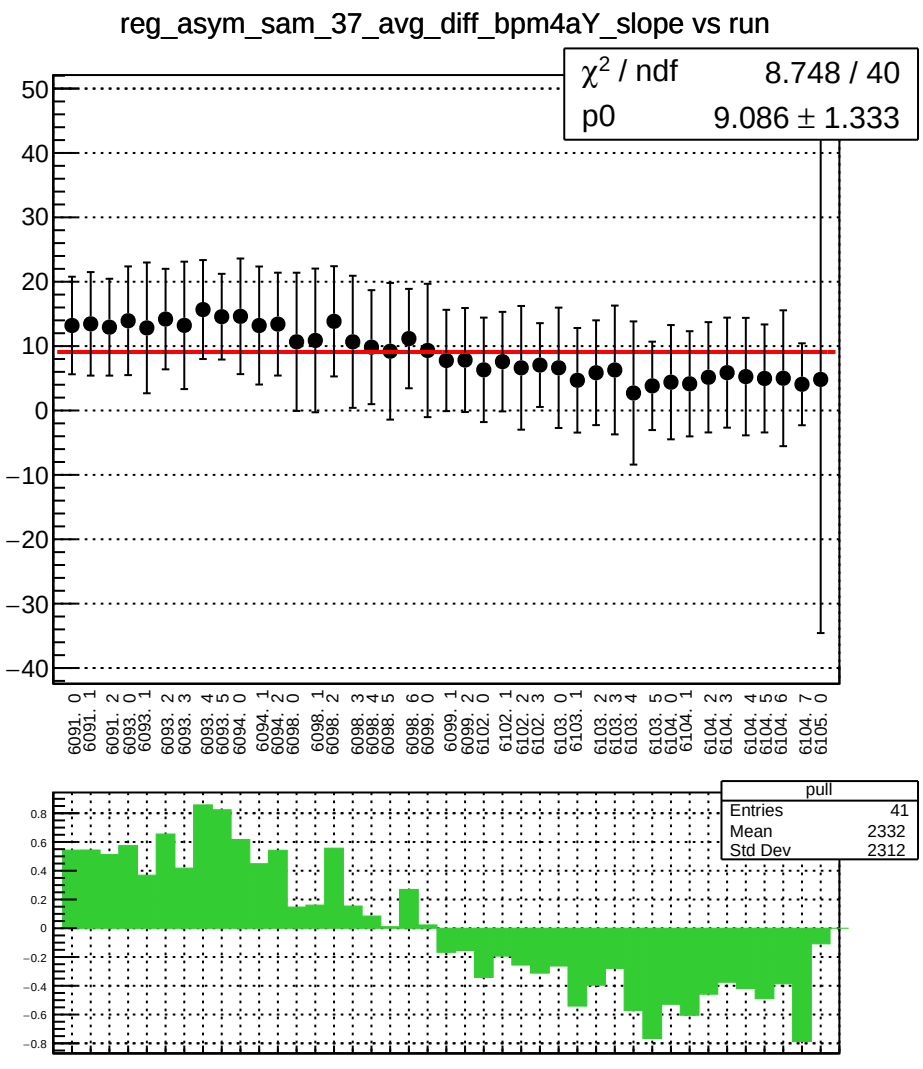

pull1D
Entries 41
Mean 8.933e−05
Std Dev 0.1912

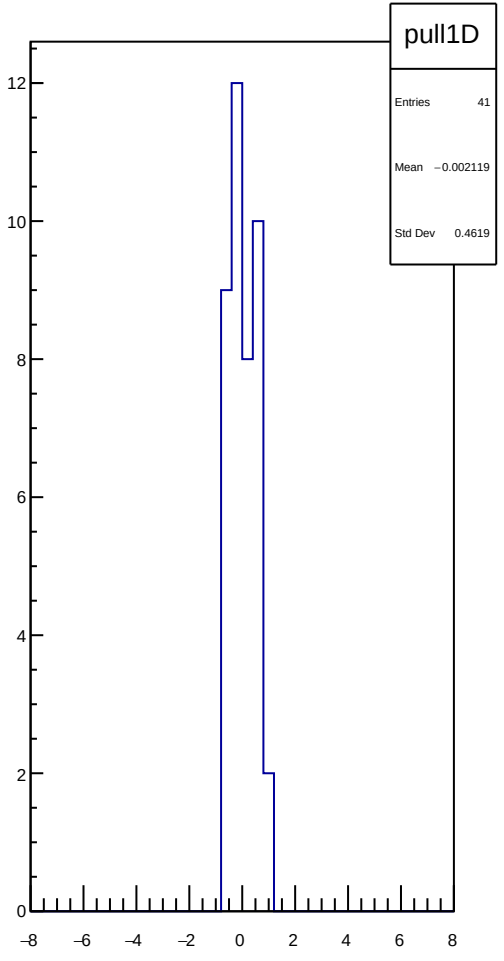

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.658 / 40
p0 −44.5 ± 1.11
−20
−30
−40
−50
−60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 158.3
Std Dev 155
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.003231
Std Dev 0.3371
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

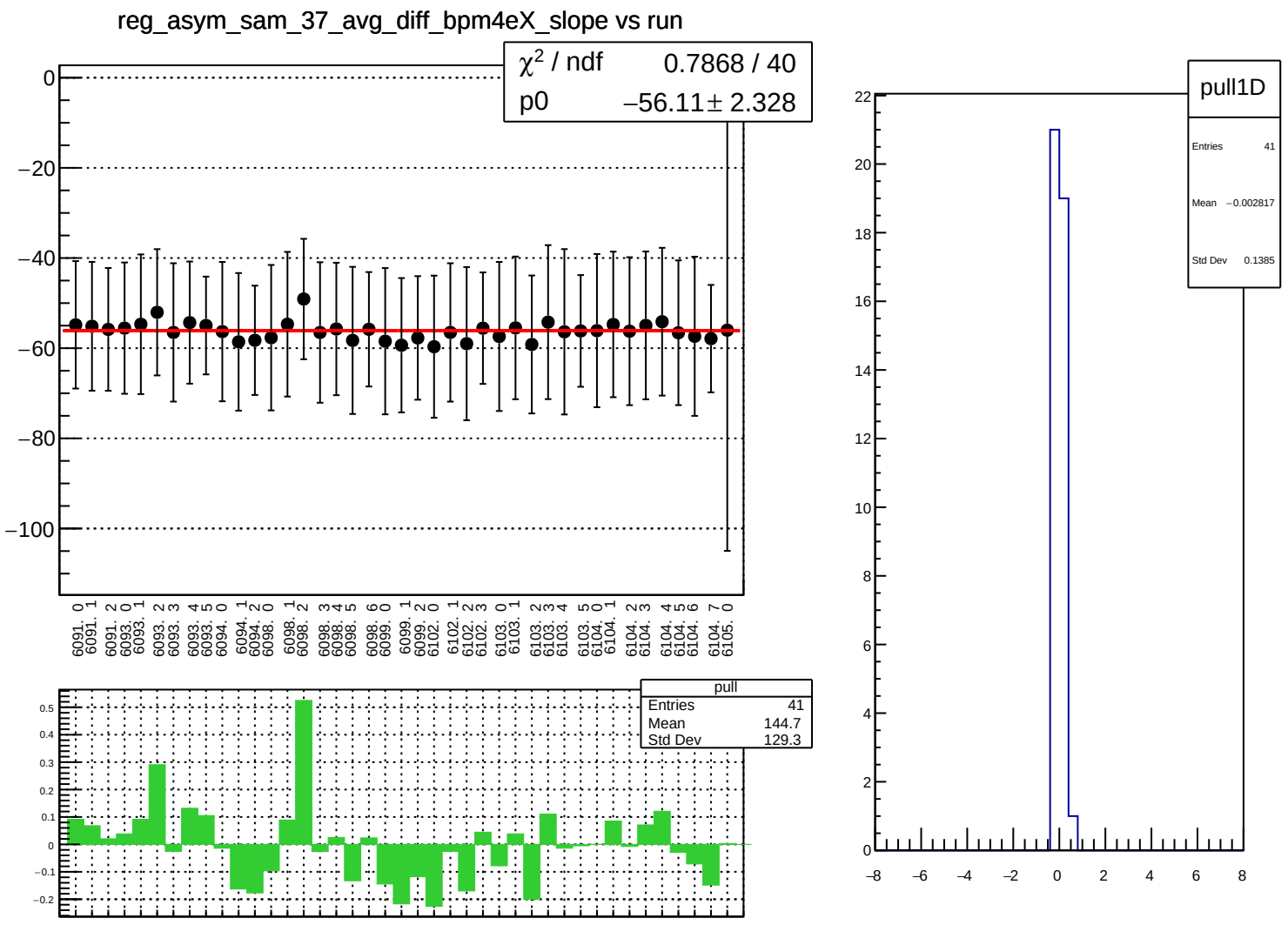

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2.049 / 40
p0 0.04205 ± 0.07699
pull
Entries 41
Mean −954.8
Std Dev 975
pull1D
Entries 41
Mean −0.001838
Std Dev 0.2235

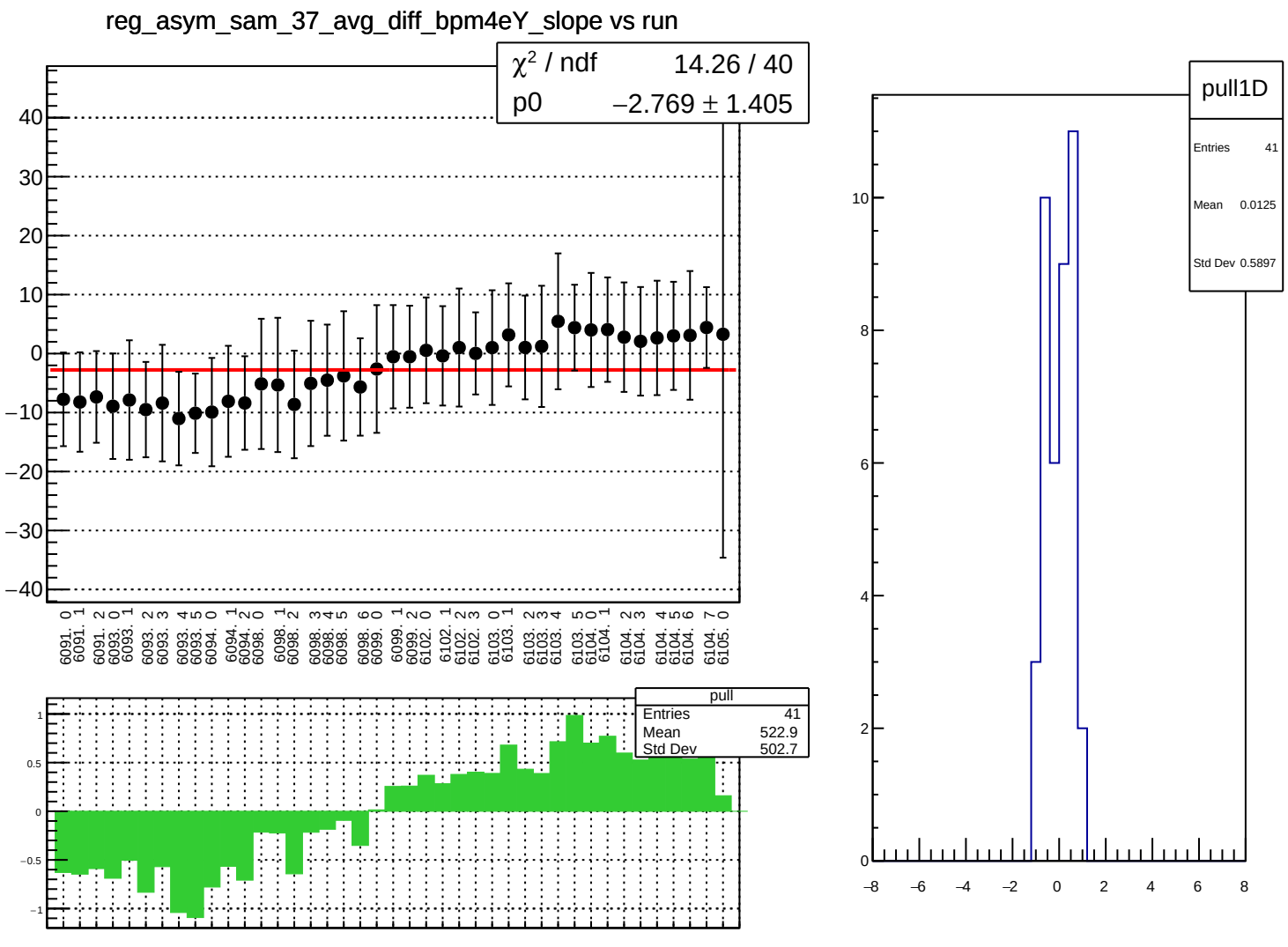

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.7664 / 40
p0 −17.74 ± 1.997
pull
Entries 41
Mean 132.7
Std Dev 120.2

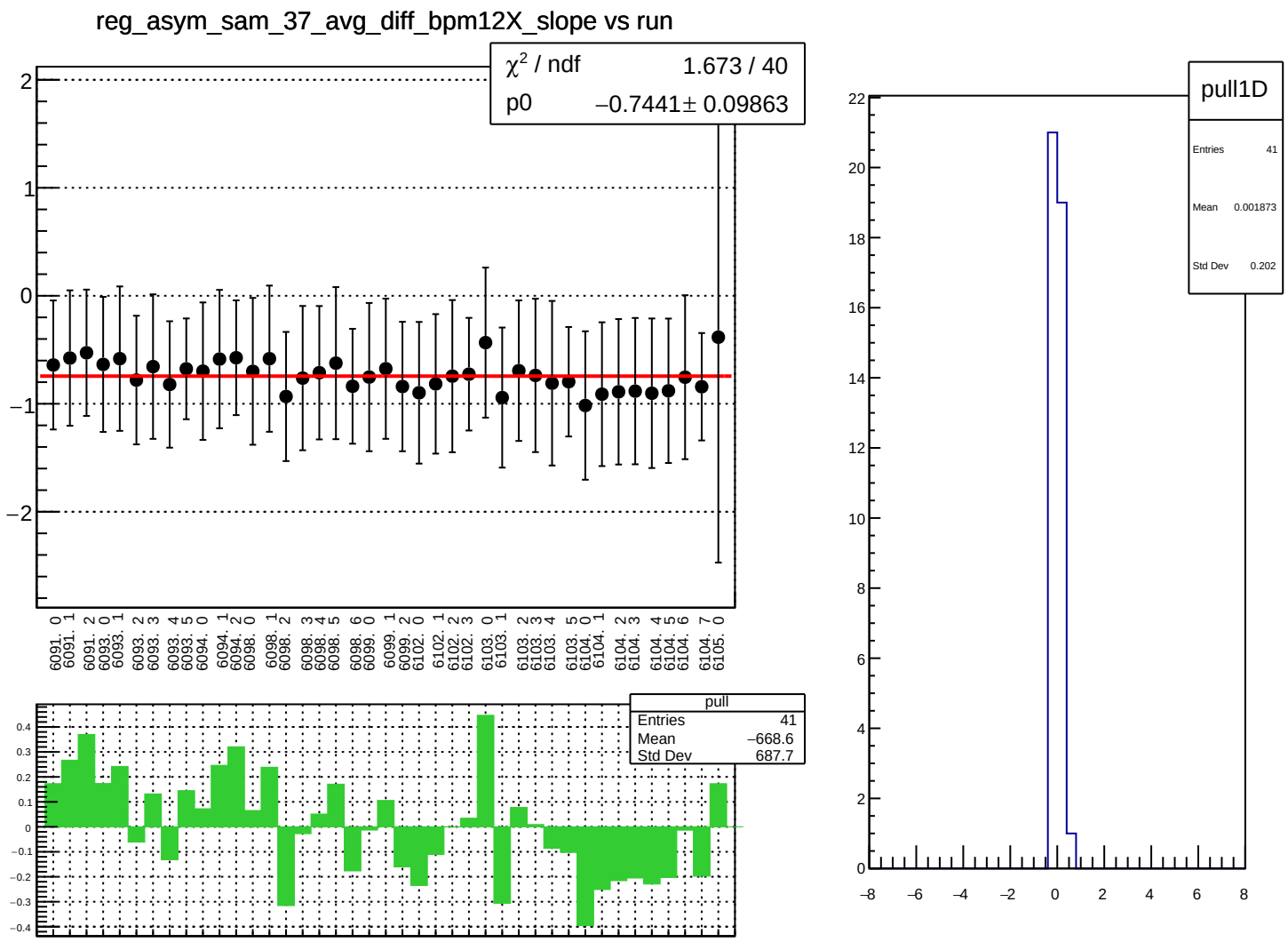

pull1D
Entries 41
Mean 0.003375
Std Dev 0.1367

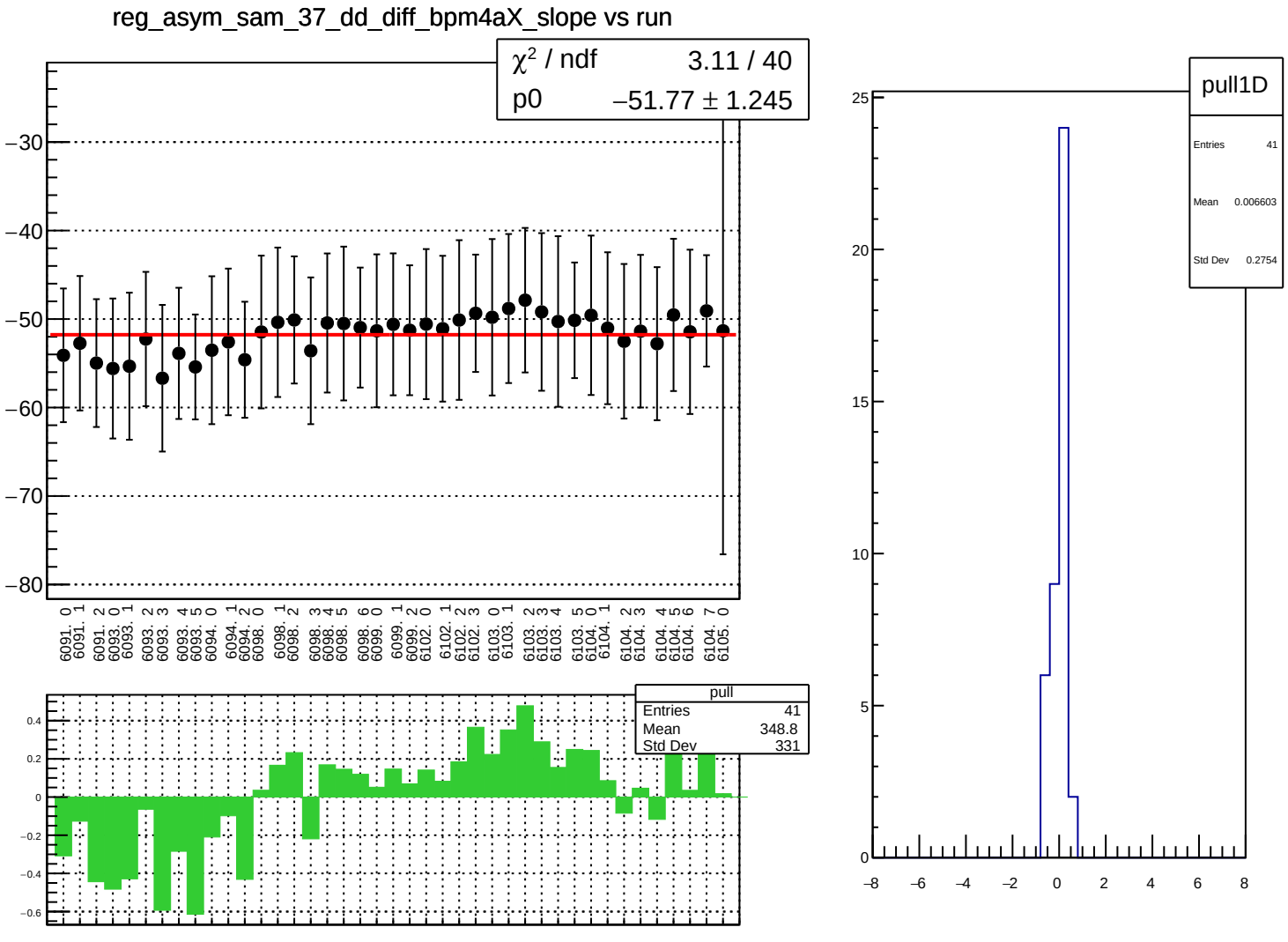

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.748 / 40
p0 9.086 ± 1.333
pull
Entries 41
Mean 2332
Std Dev 2312

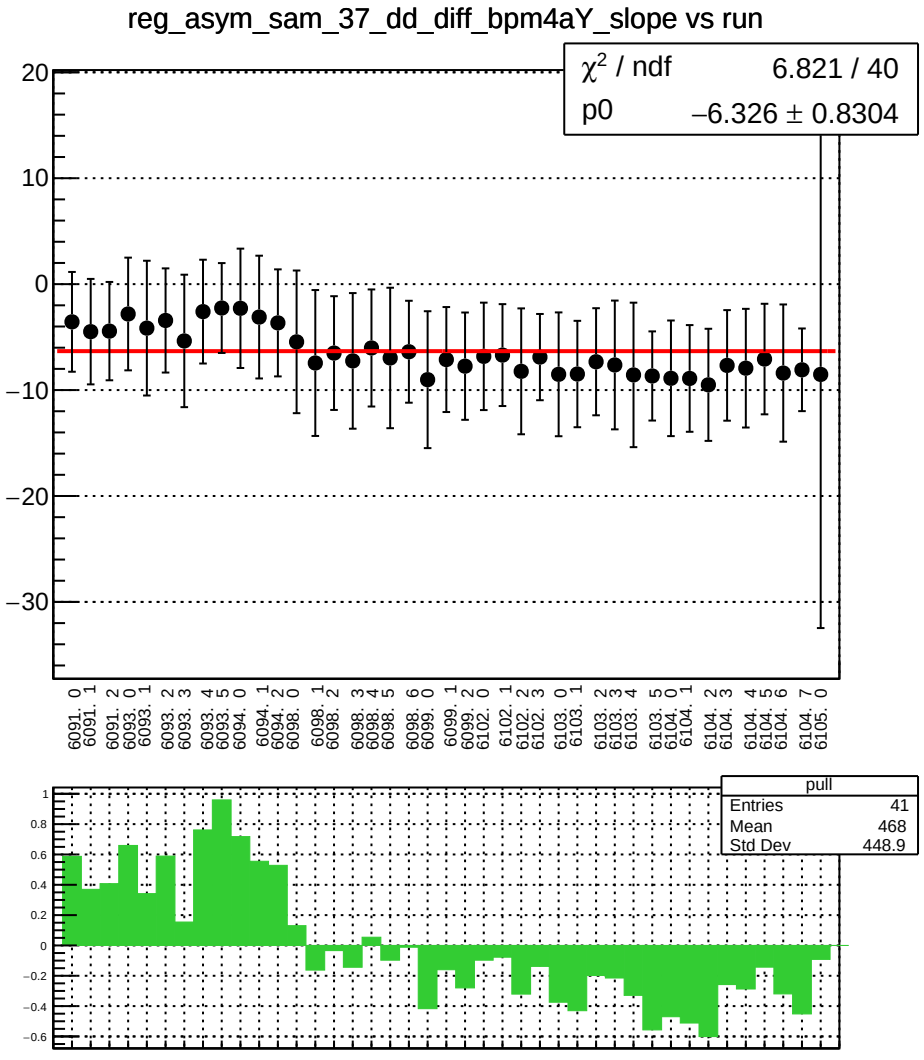

pull1D
Entries 41
Mean −0.002119
Std Dev 0.4619

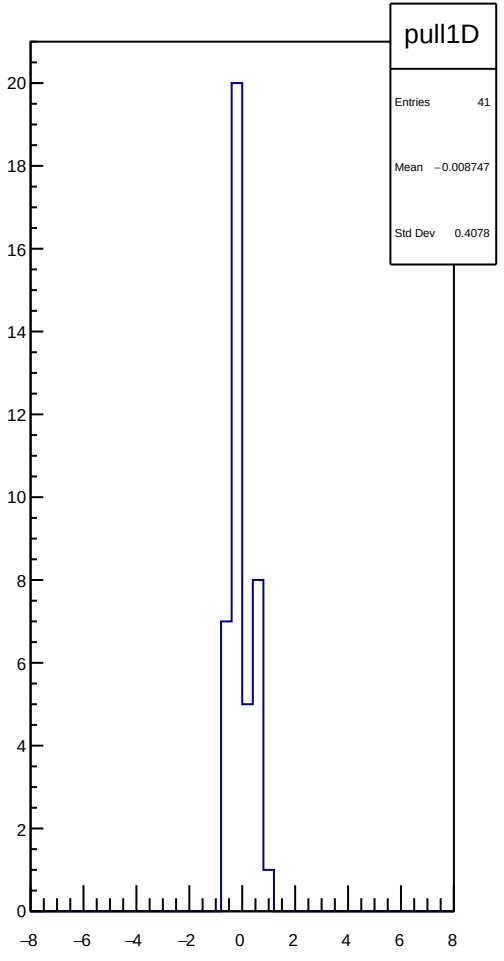

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7868 / 40
p0 −56.11± 2.328
0
−20
−40
−60
−80
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 144.7
Std Dev 129.3
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean −0.002817
Std Dev 0.1385
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

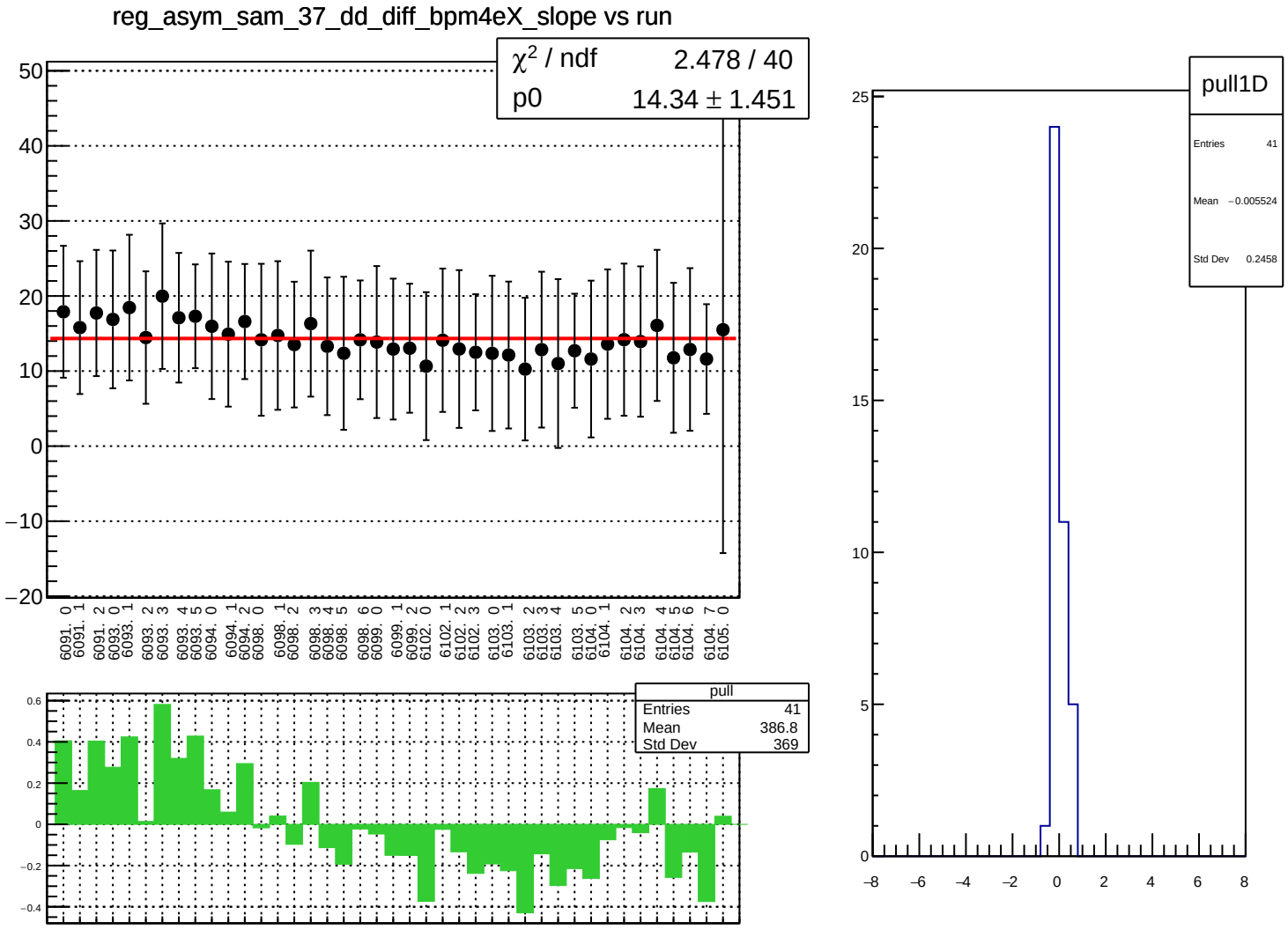

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.26 / 40
p0 −2.769 ± 1.405
pull
Entries 41
Mean 522.9
Std Dev 502.7
pull1D
Entries 41
Mean 0.0125
Std Dev 0.5897

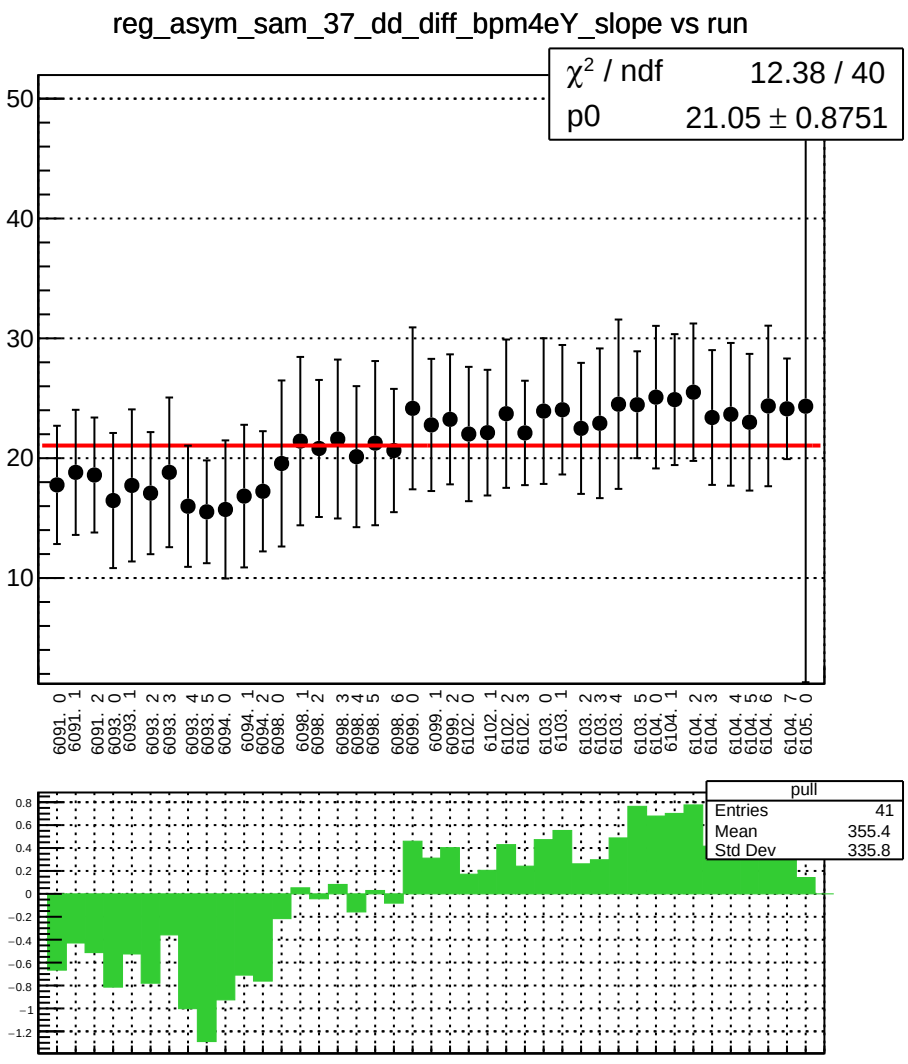

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.673 / 40
p0 −0.7441± 0.09863
pull
Entries 41
Mean −668.6
Std Dev 687.7
pull1D
Entries 41
Mean 0.001873
Std Dev 0.202

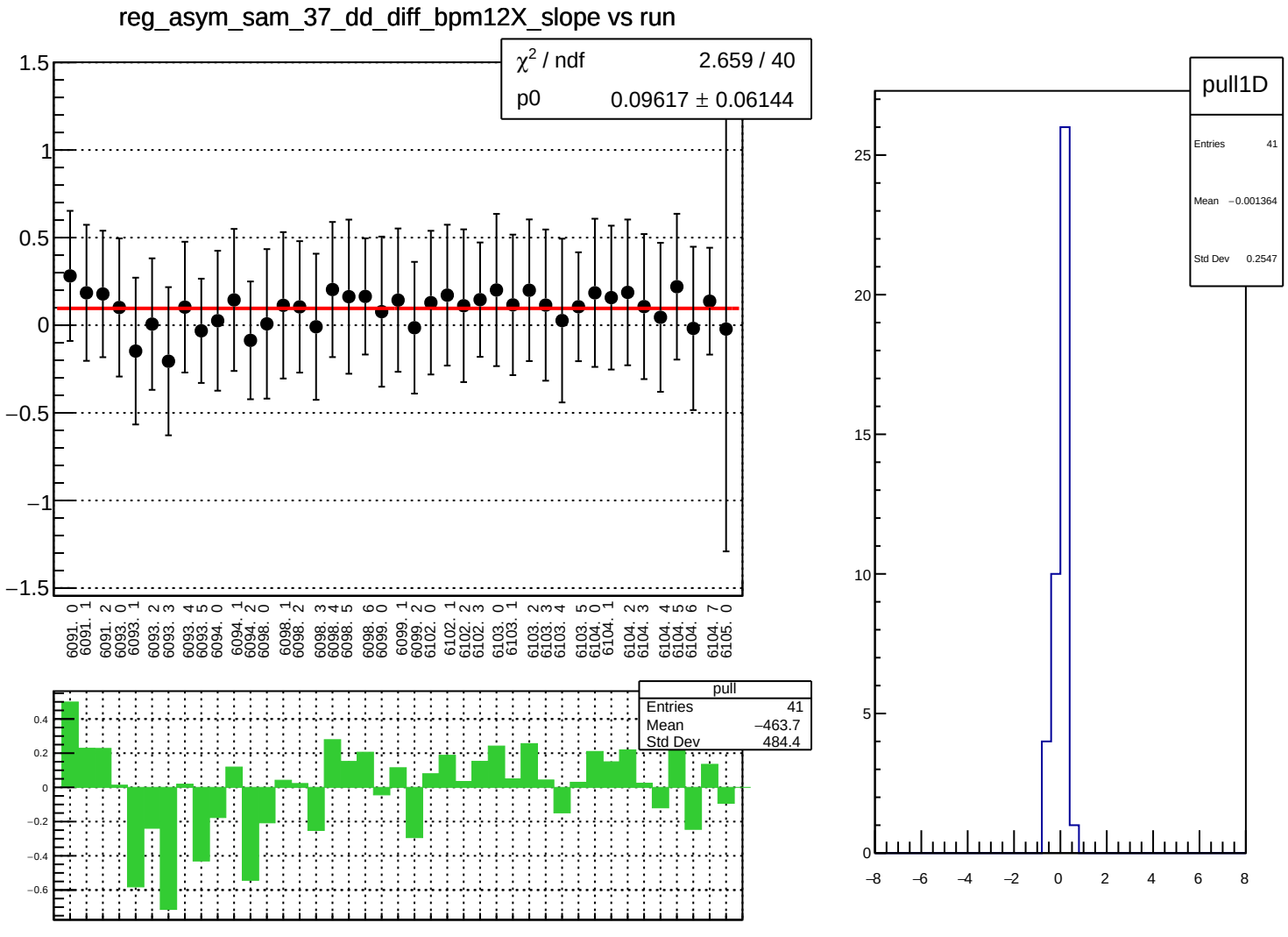

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.11 / 40
p0 −51.77 ± 1.245
−30
−40
−50
−60
−70
−80
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 348.8
Std Dev 331
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.006603
Std Dev 0.2754
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

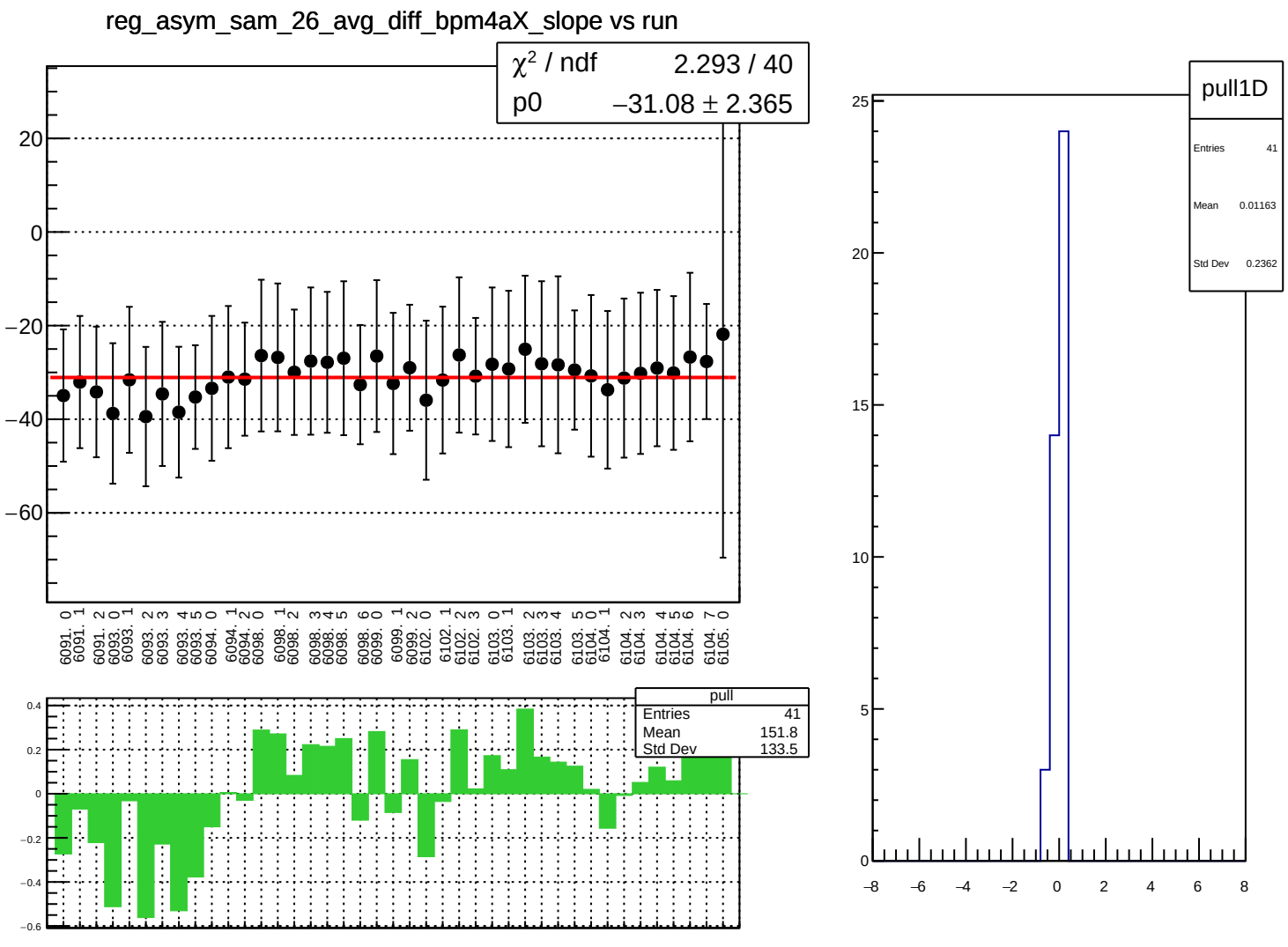

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.821 / 40
p0 −6.326 ± 0.8304
pull
Entries 41
Mean 468
Std Dev 448.9

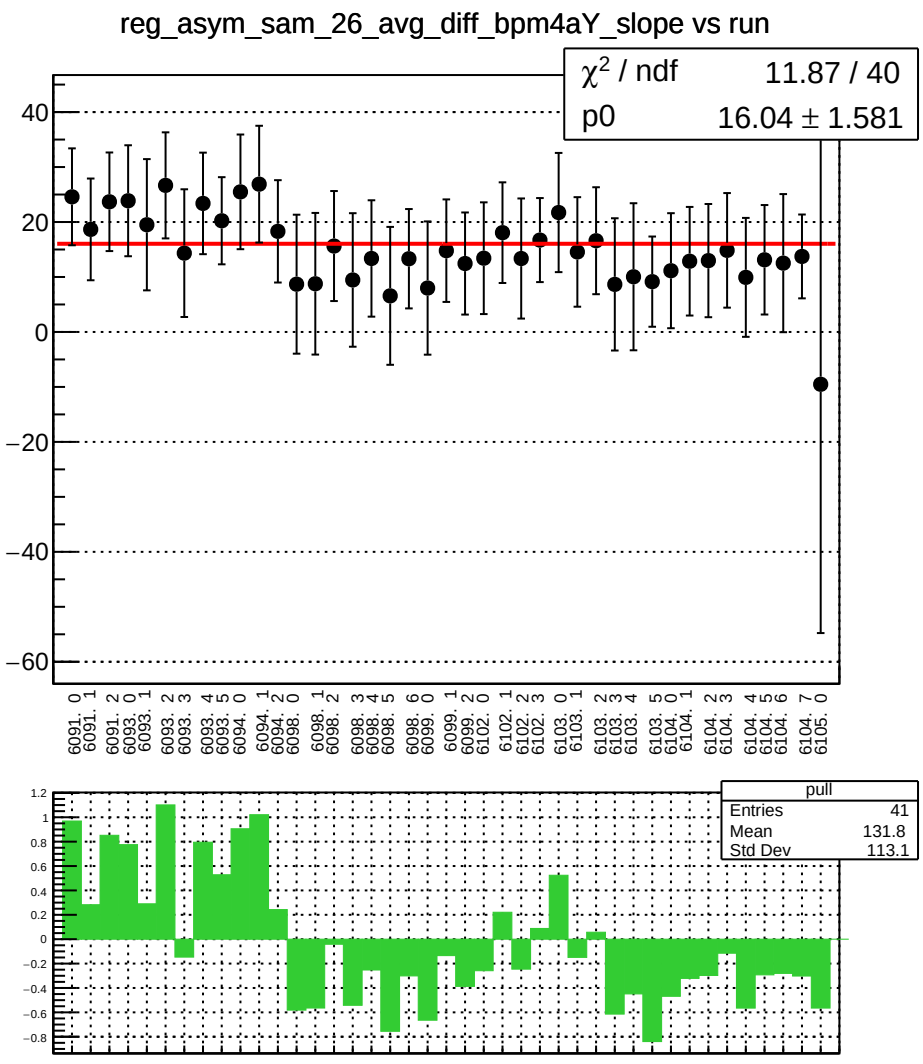

pull1D
Entries 41
Mean −0.008747
Std Dev 0.4078

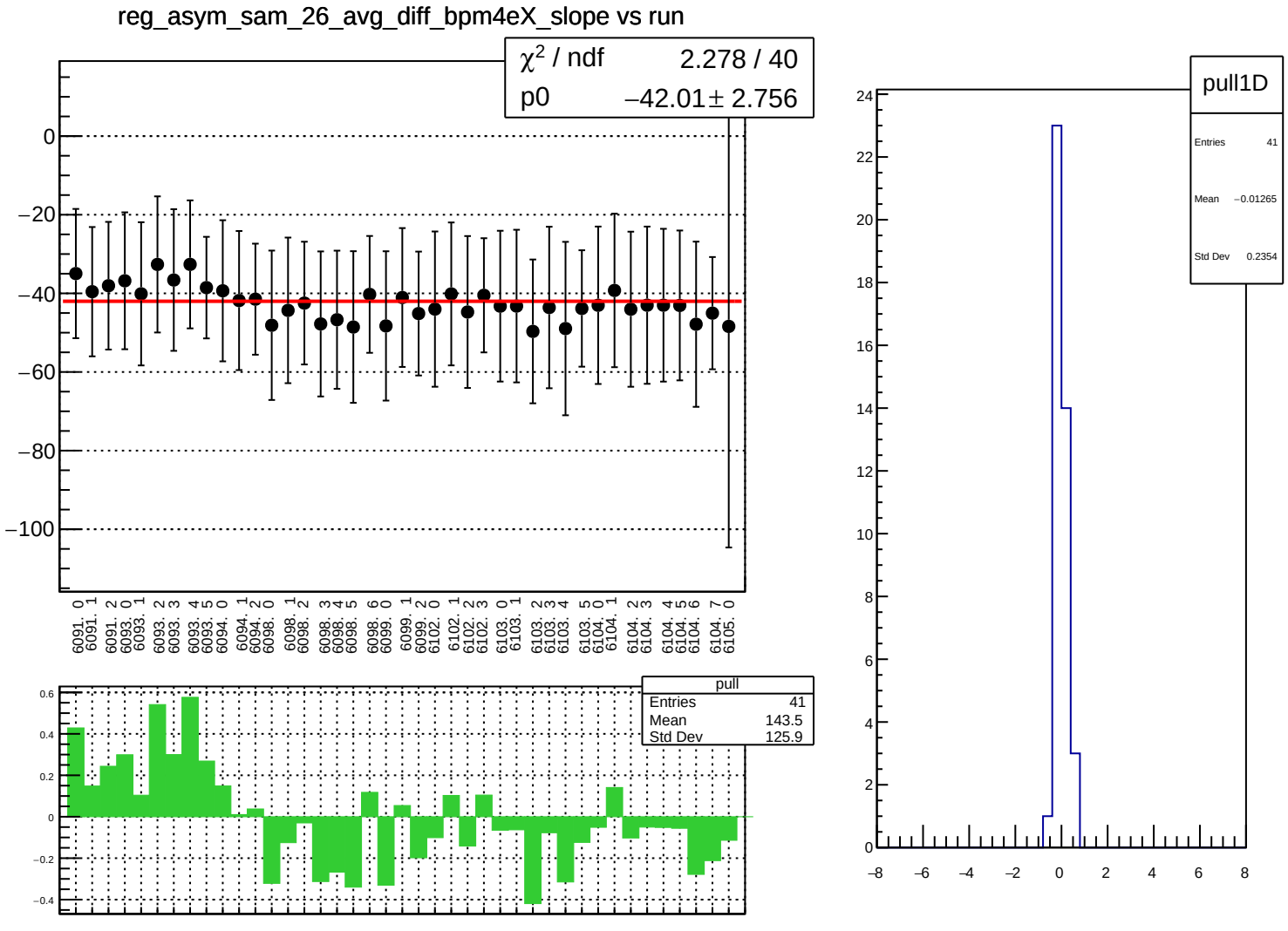

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.478 / 40
p0 14.34 ± 1.451
pull
Entries 41
Mean 386.8
Std Dev 369
pull1D
Entries 41
Mean −0.005524
Std Dev 0.2458

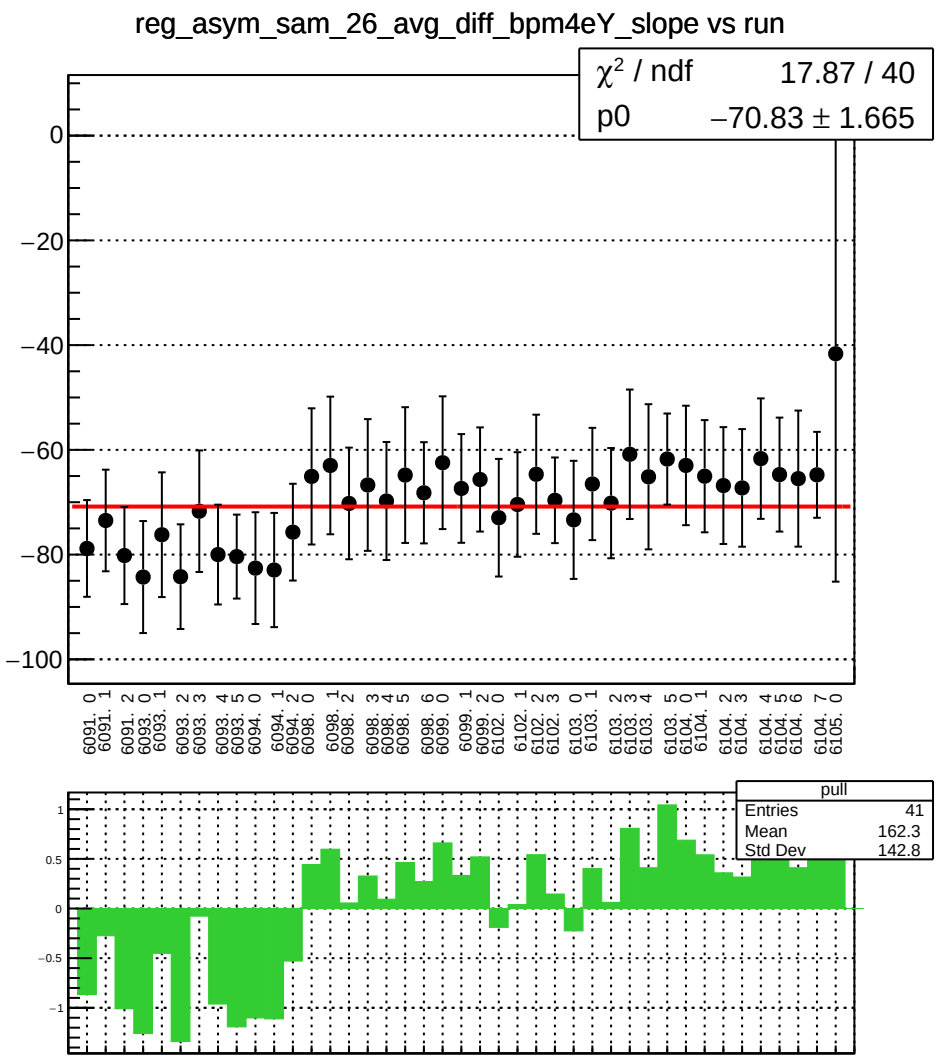

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.38 / 40
p0 21.05 ± 0.8751
50
40
30
20
10
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 355.4
Std Dev 335.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 41
Mean 0.01643
Std Dev 0.5493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

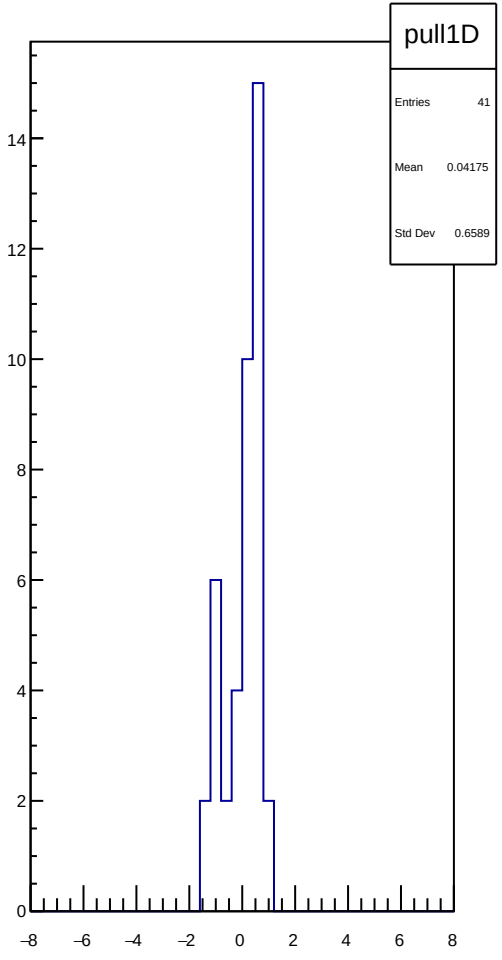

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.659 / 40
p0 0.09617 ± 0.06144
pull
Entries 41
Mean −463.7
Std Dev 484.4
pull1D
Entries 41
Mean −0.001364
Std Dev 0.2547

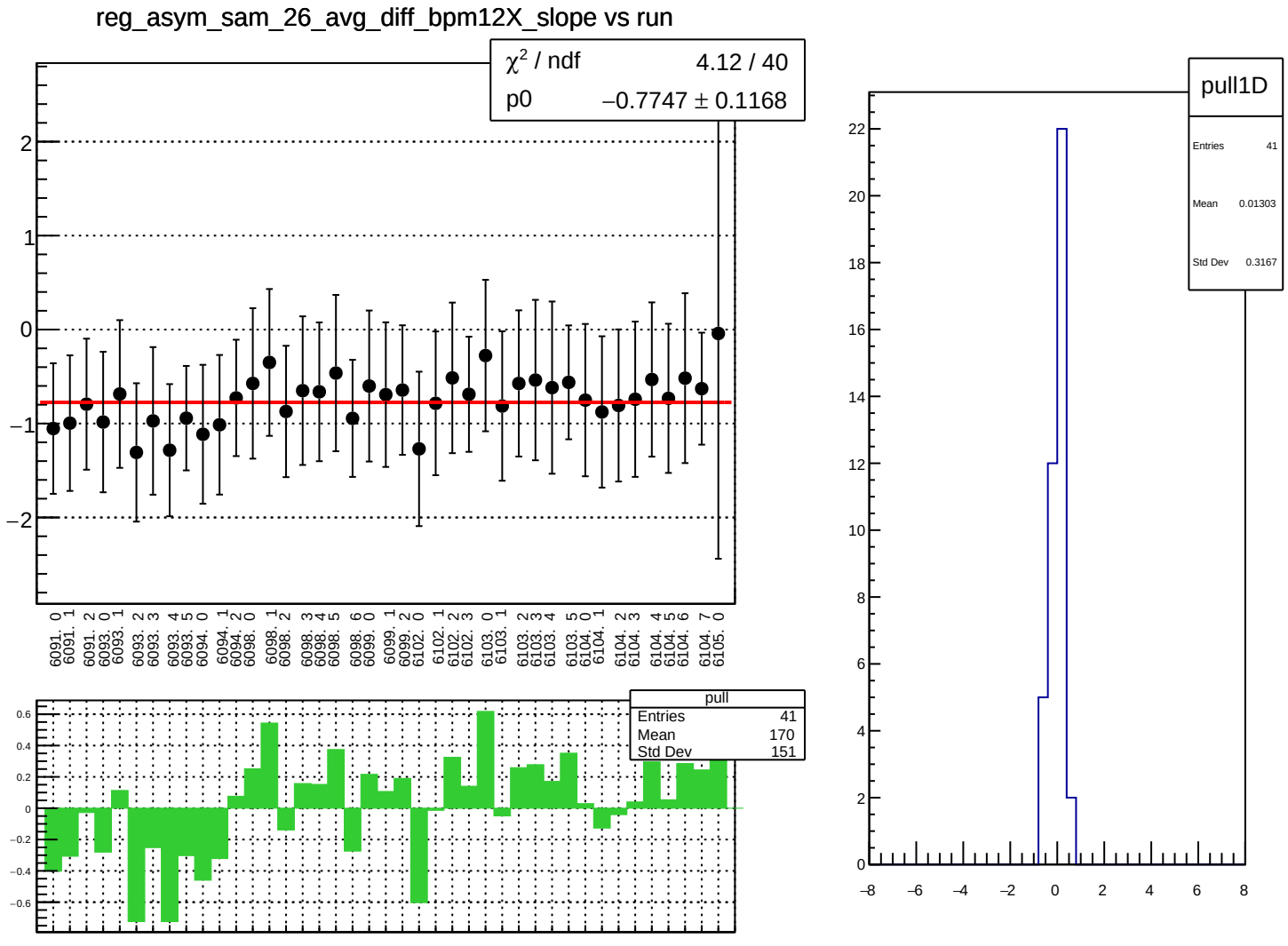

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.293 / 40
p0 −31.08 ± 2.365
pull
Entries 41
Mean 151.8
Std Dev 133.5
pull1D
Entries 41
Mean 0.01163
Std Dev 0.2362

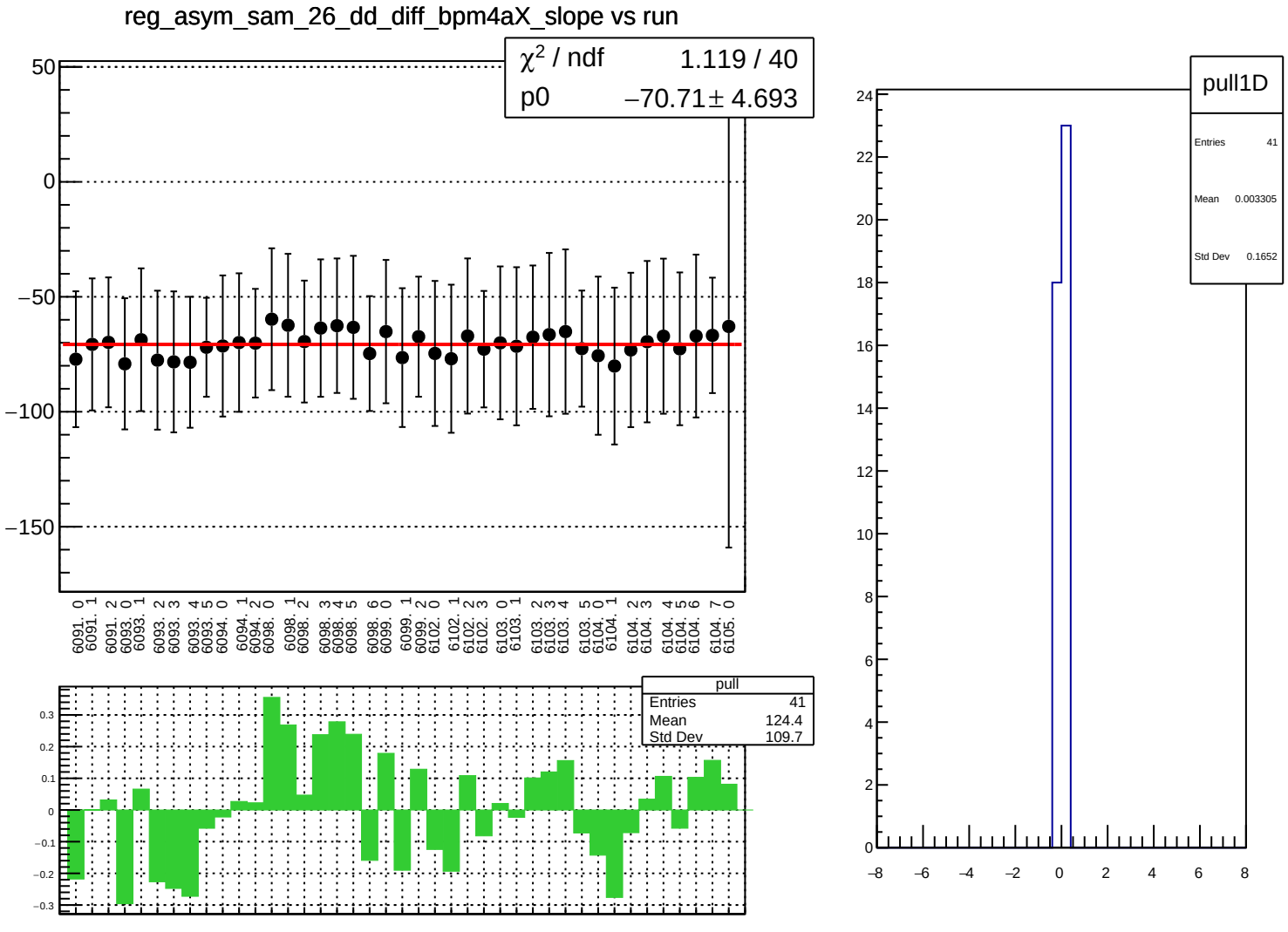

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.87 / 40
p0 16.04 ± 1.581
40
20
0
−20
−40
−60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 131.8
Std Dev 113.1
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.03607
Std Dev 0.5368
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

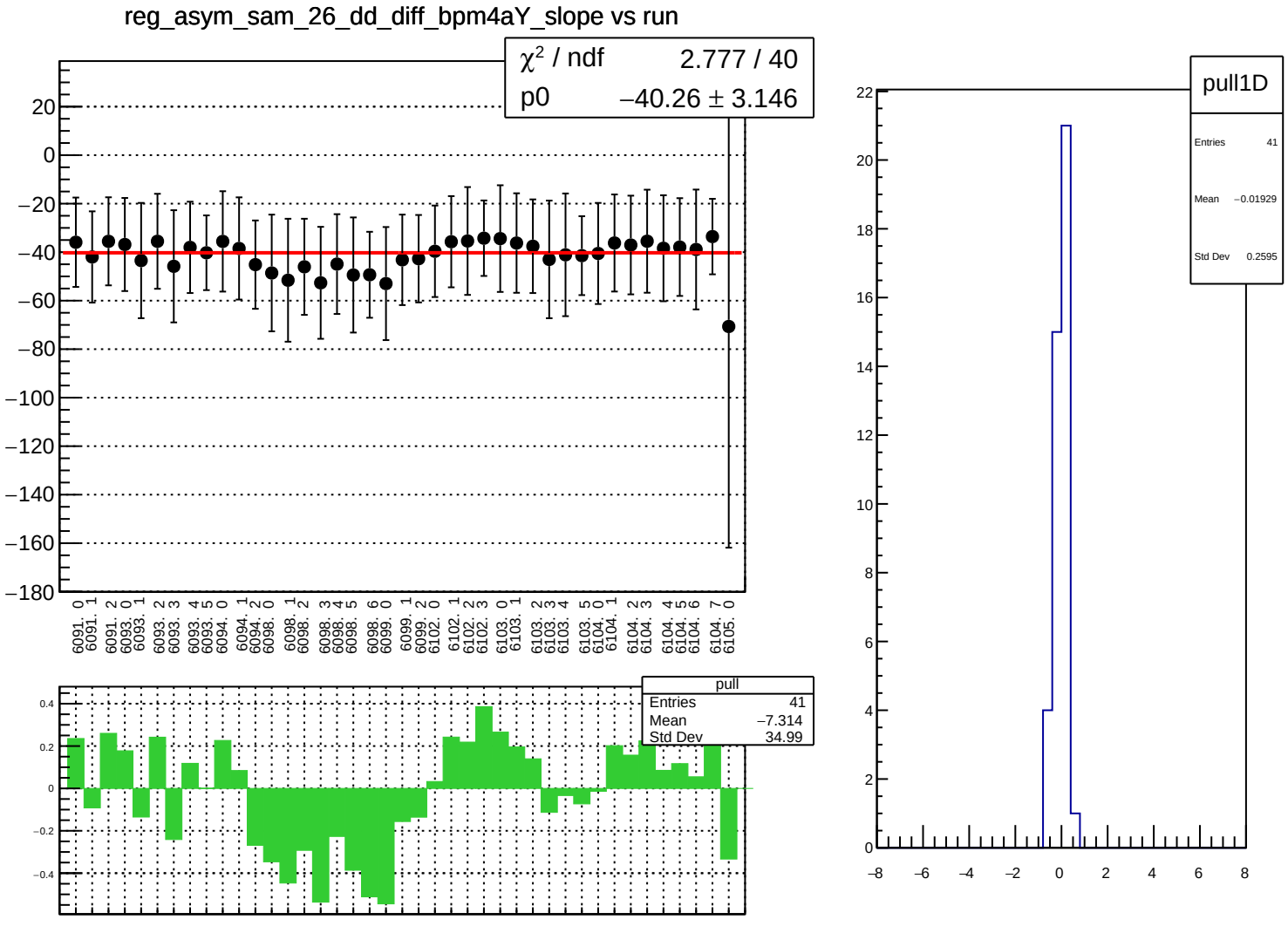

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.278 / 40
p0 −42.01± 2.756
pull
Entries 41
Mean 143.5
Std Dev 125.9
pull1D
Entries 41
Mean −0.01265
Std Dev 0.2354

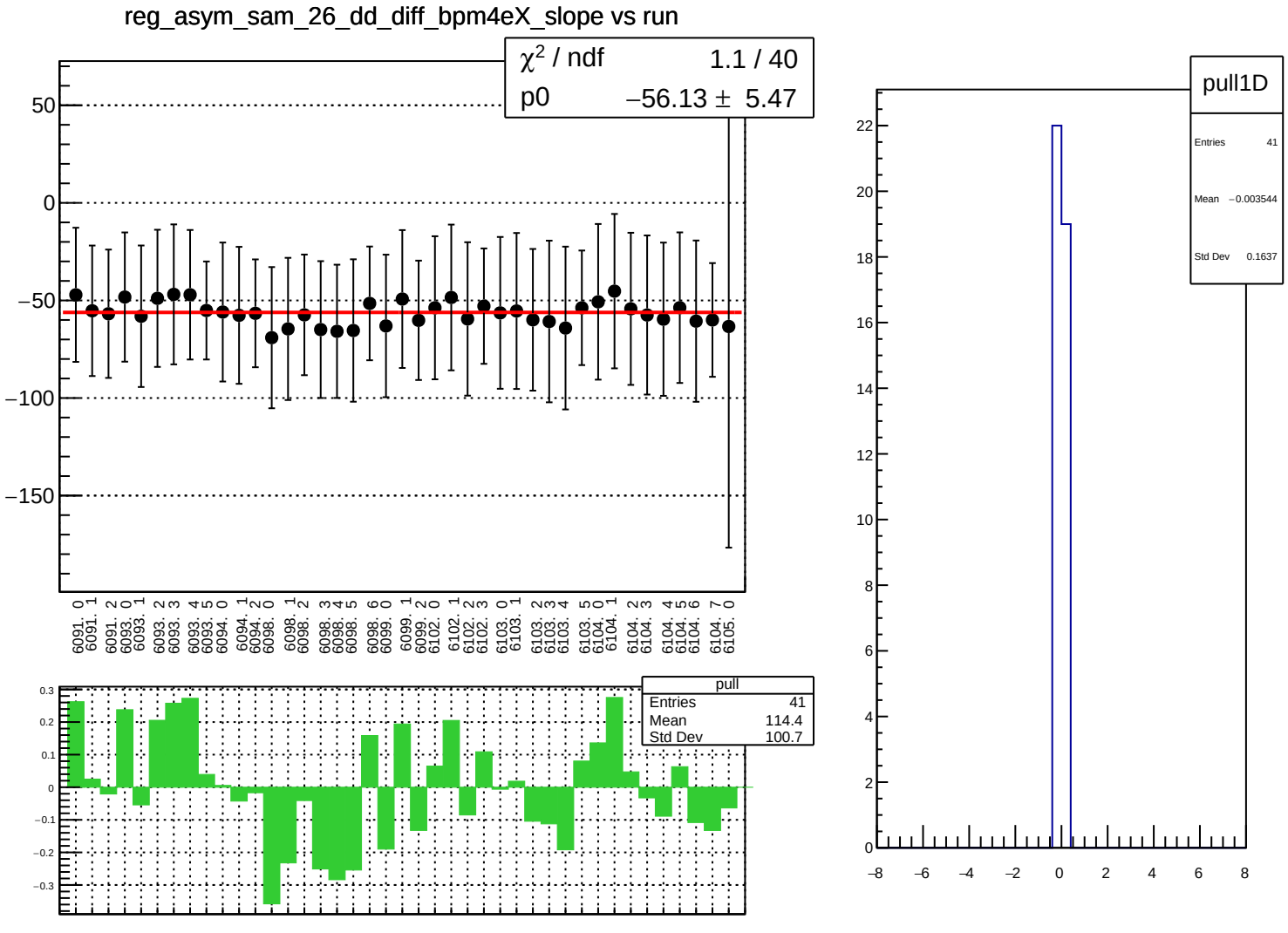

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.87 / 40
p0 −70.83 ± 1.665
0
−20
−40
−60
−80
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 162.3
Std Dev 142.8
1
0.5
0
−0.5
−1

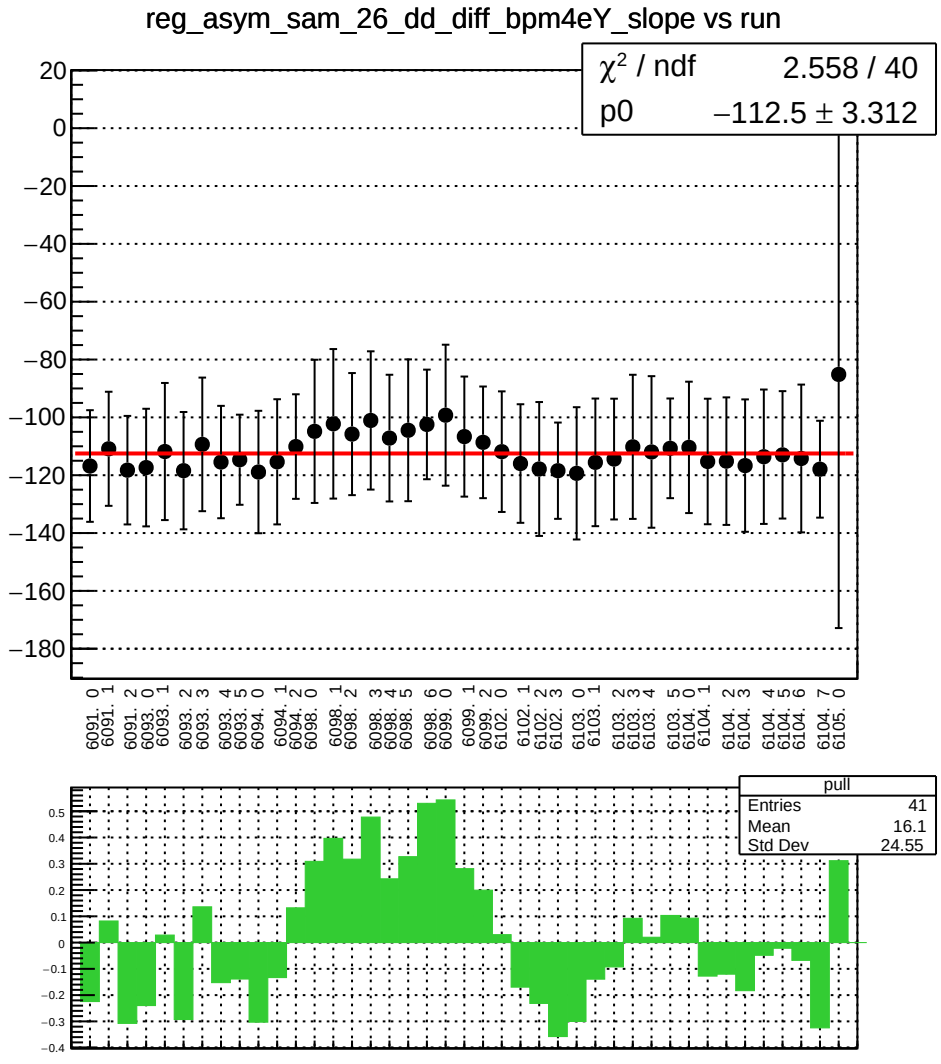

pull1D
Entries 41
Mean 0.04175
Std Dev 0.6589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

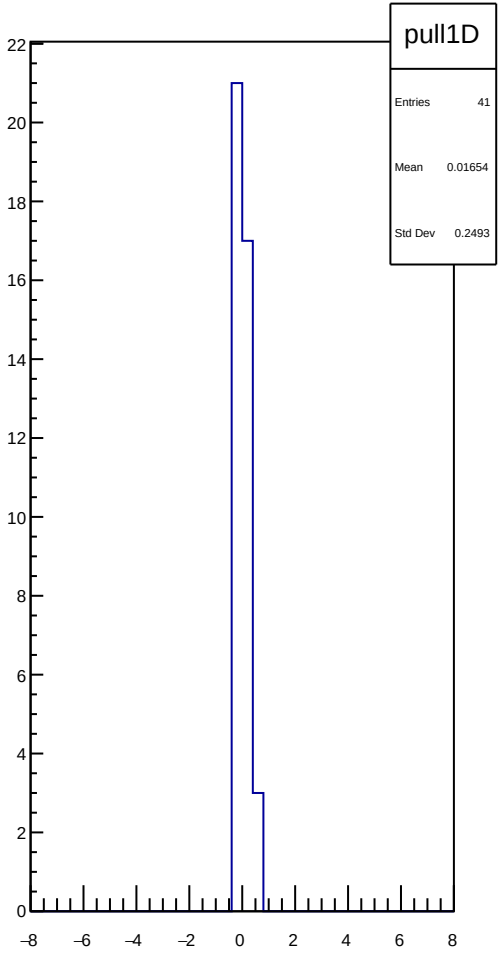

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.12 / 40
p0 −0.7747 ± 0.1168
pull
Entries 41
Mean 170
Std Dev 151
pull1D
Entries 41
Mean 0.01303
Std Dev 0.3167

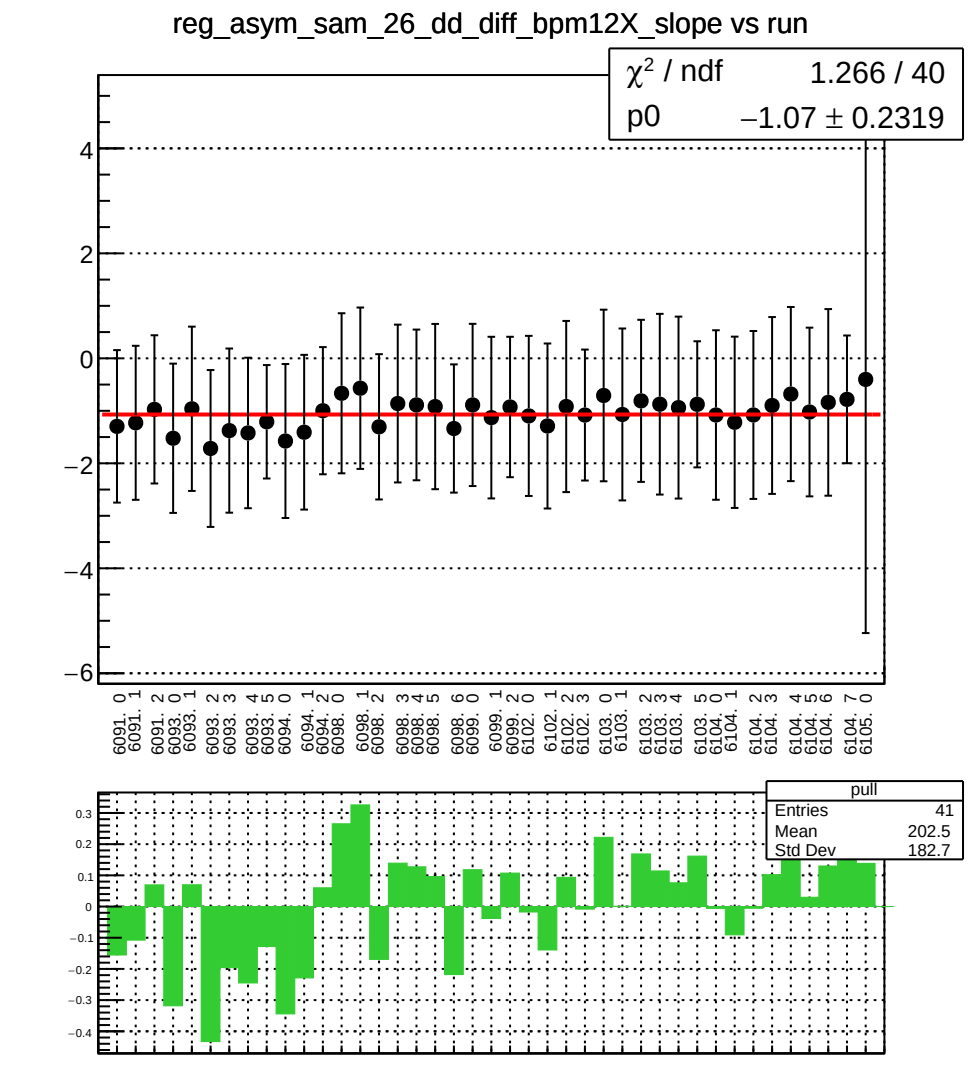

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.119 / 40
p0 −70.71± 4.693
pull
Entries 41
Mean 124.4
Std Dev 109.7
pull1D
Entries 41
Mean 0.003305
Std Dev 0.1652

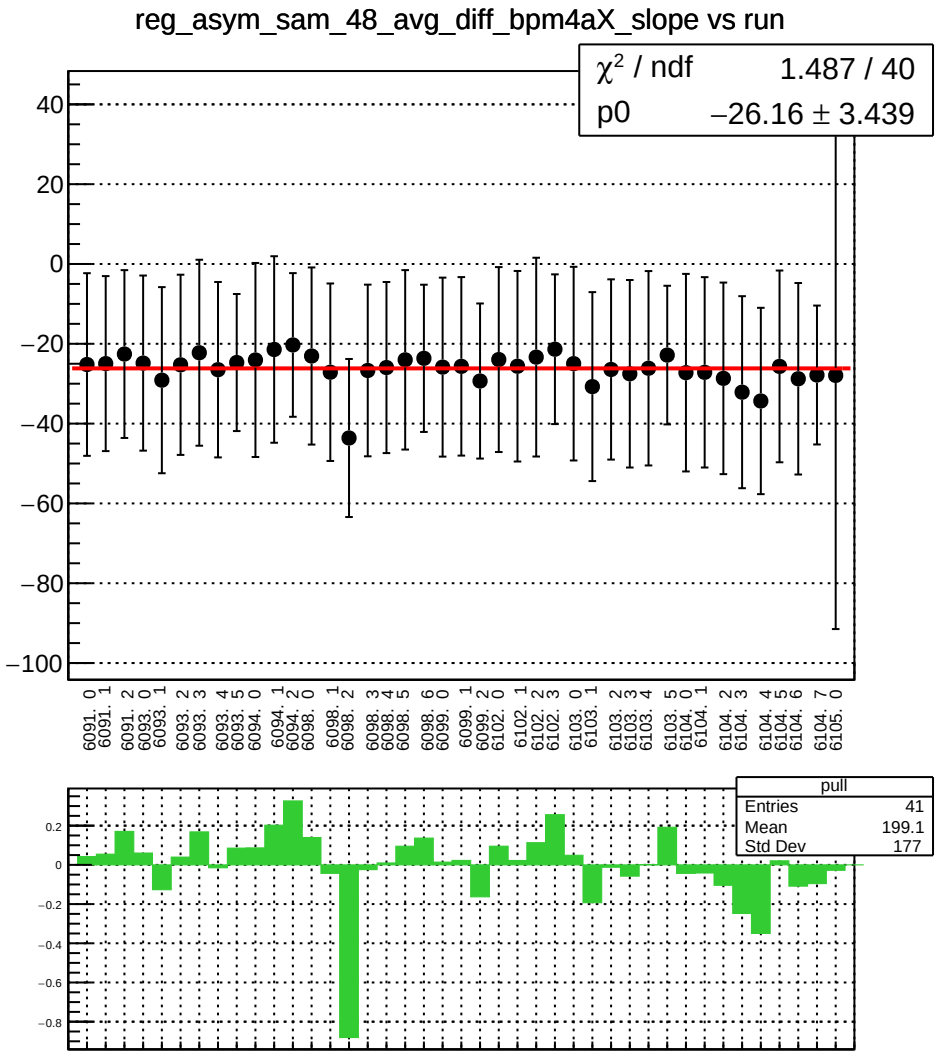

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.777 / 40
p0 −40.26 ± 3.146
pull
Entries 41
Mean −7.314
Std Dev 34.99
pull1D
Entries 41
Mean −0.01929
Std Dev 0.2595

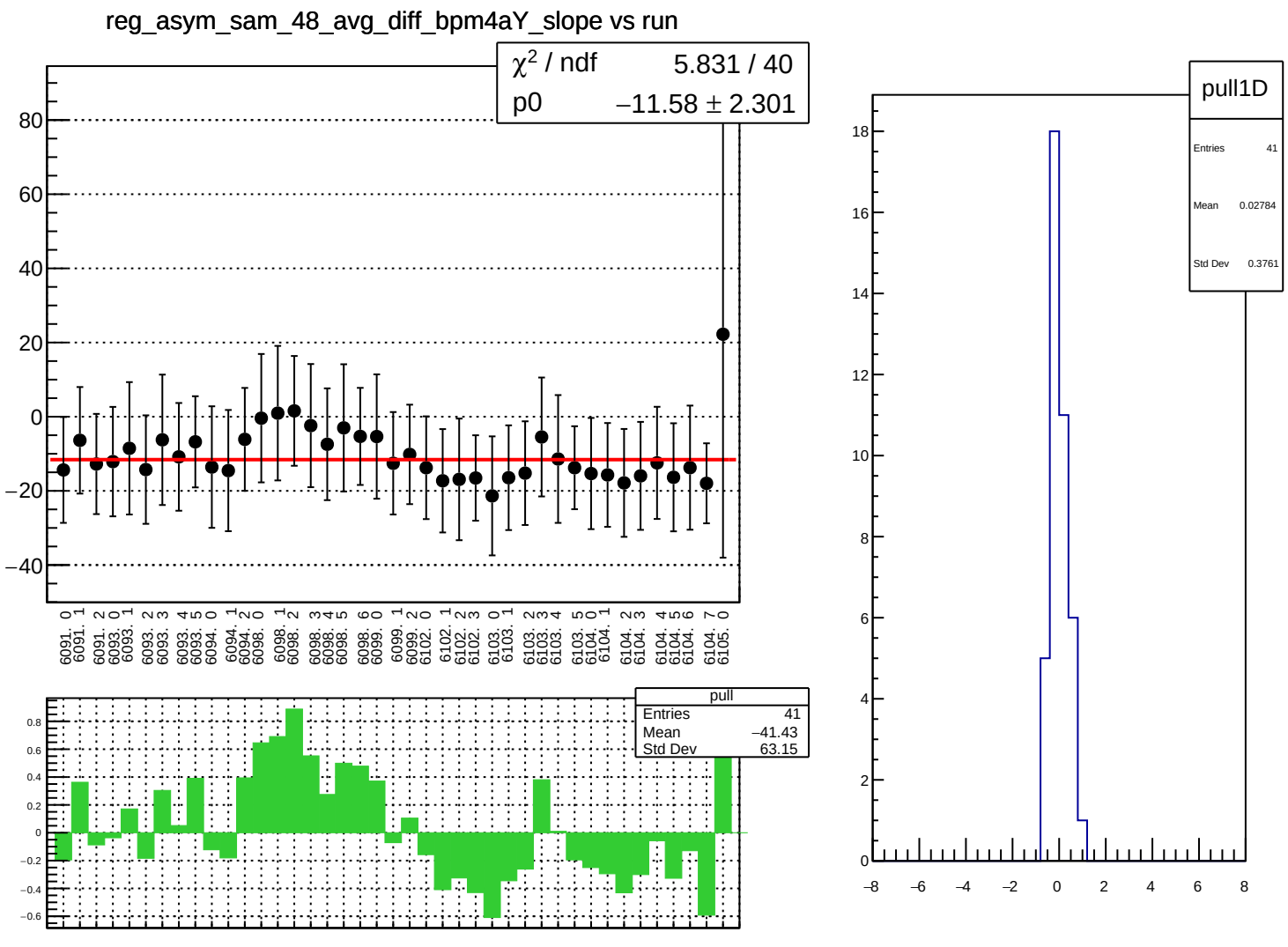

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.1 / 40
p0 −56.13 ± 5.47
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 114.4
Std Dev 100.7
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 41
Mean −0.003544
Std Dev 0.1637
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

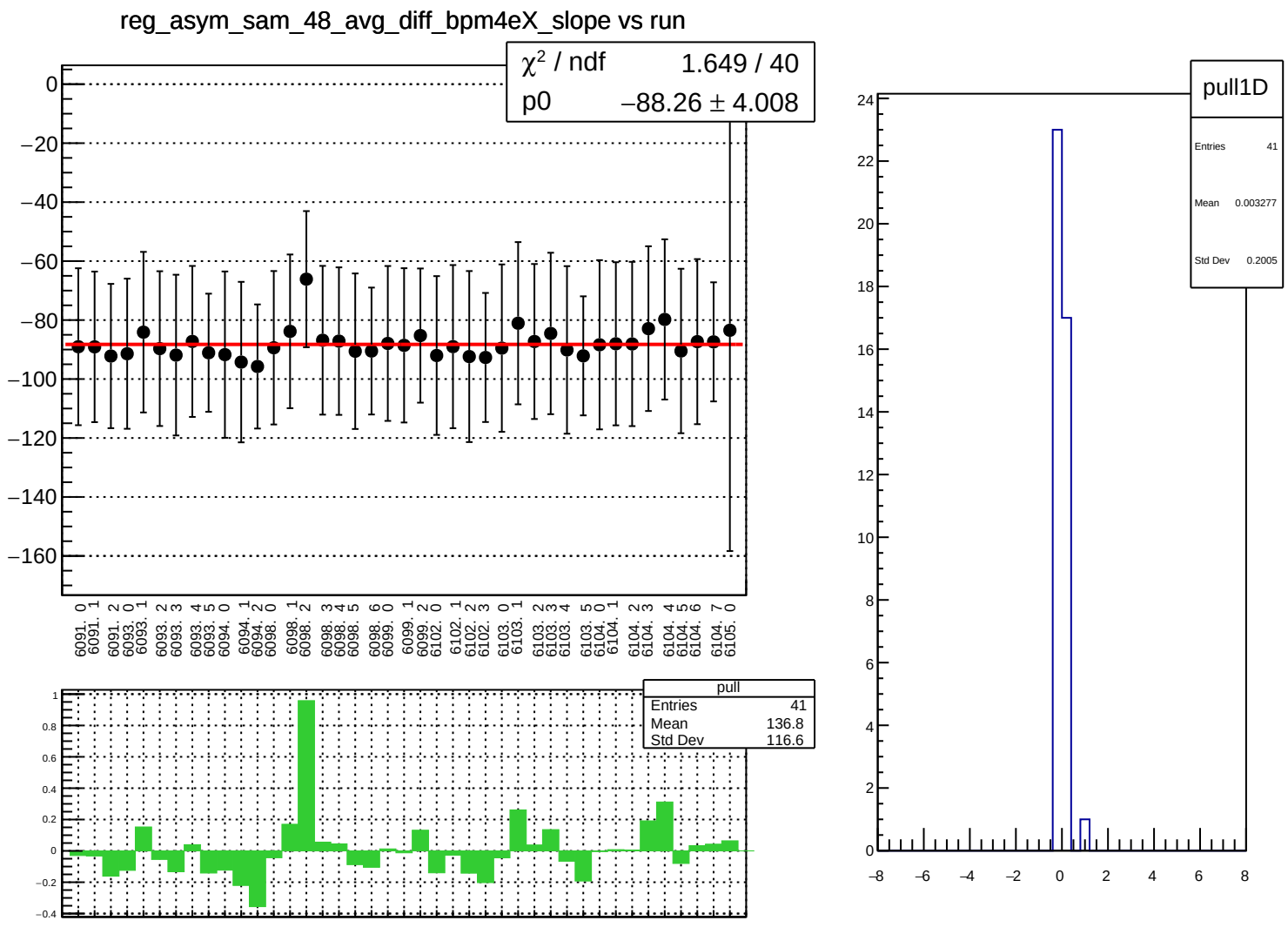

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.558 / 40
p0 −112.5 ± 3.312
pull
Entries 41
Mean 16.1
Std Dev 24.55

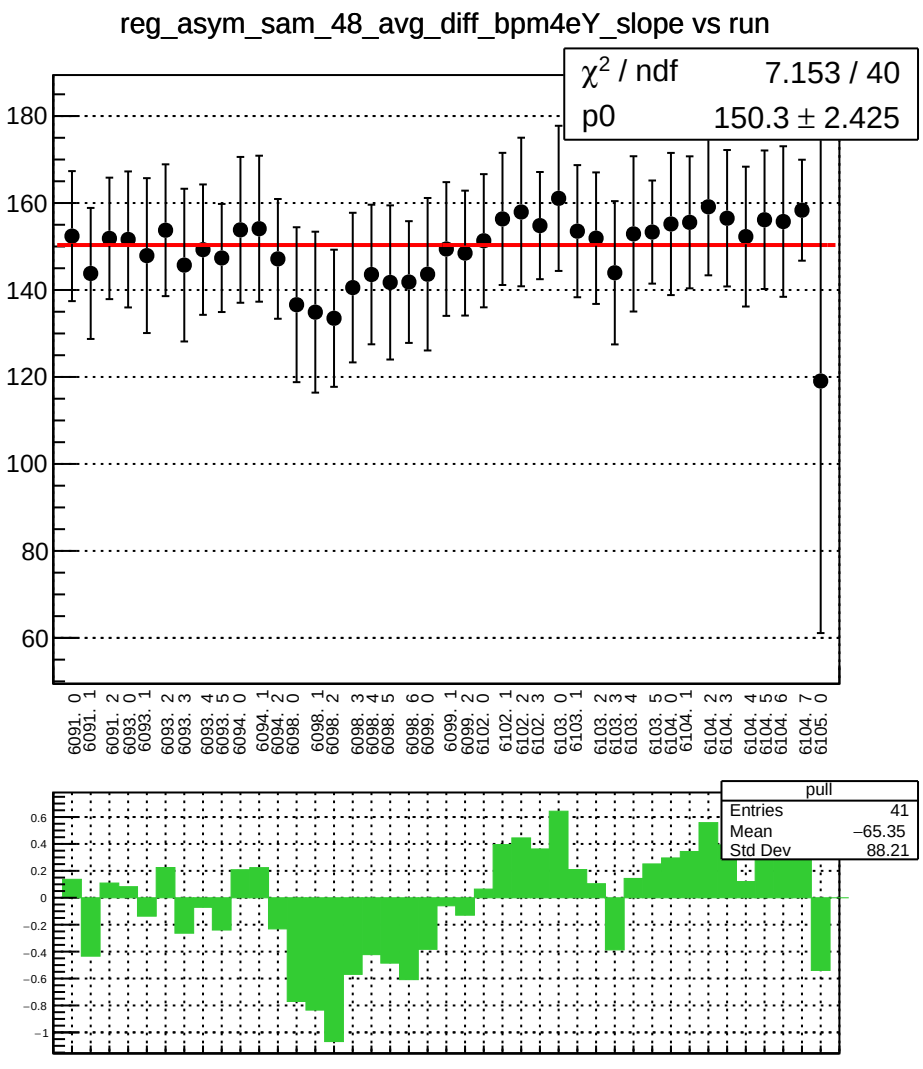

pull1D
Entries 41
Mean 0.01654
Std Dev 0.2493

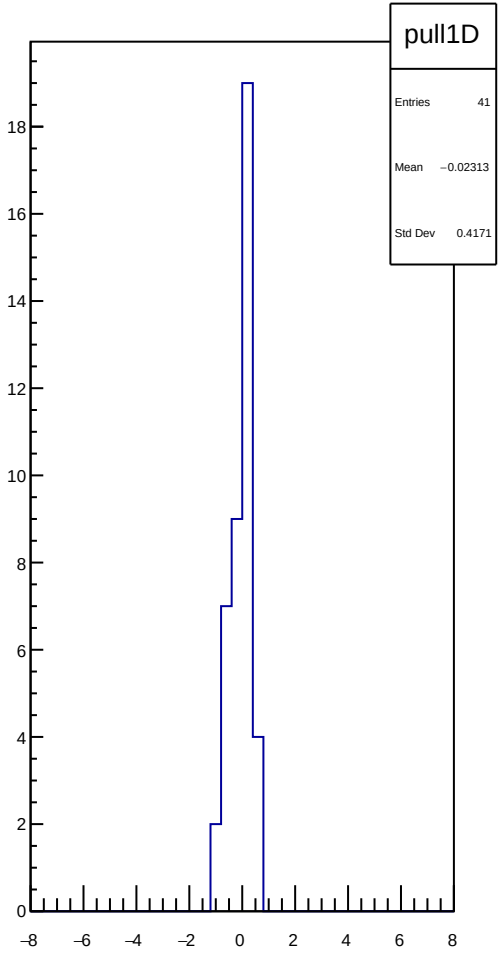

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.266 / 40
p0 −1.07 ± 0.2319
4
2
0
−2
−4
−6
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 202.5
Std Dev 182.7
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 41
Mean 0.005824
Std Dev 0.1756
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

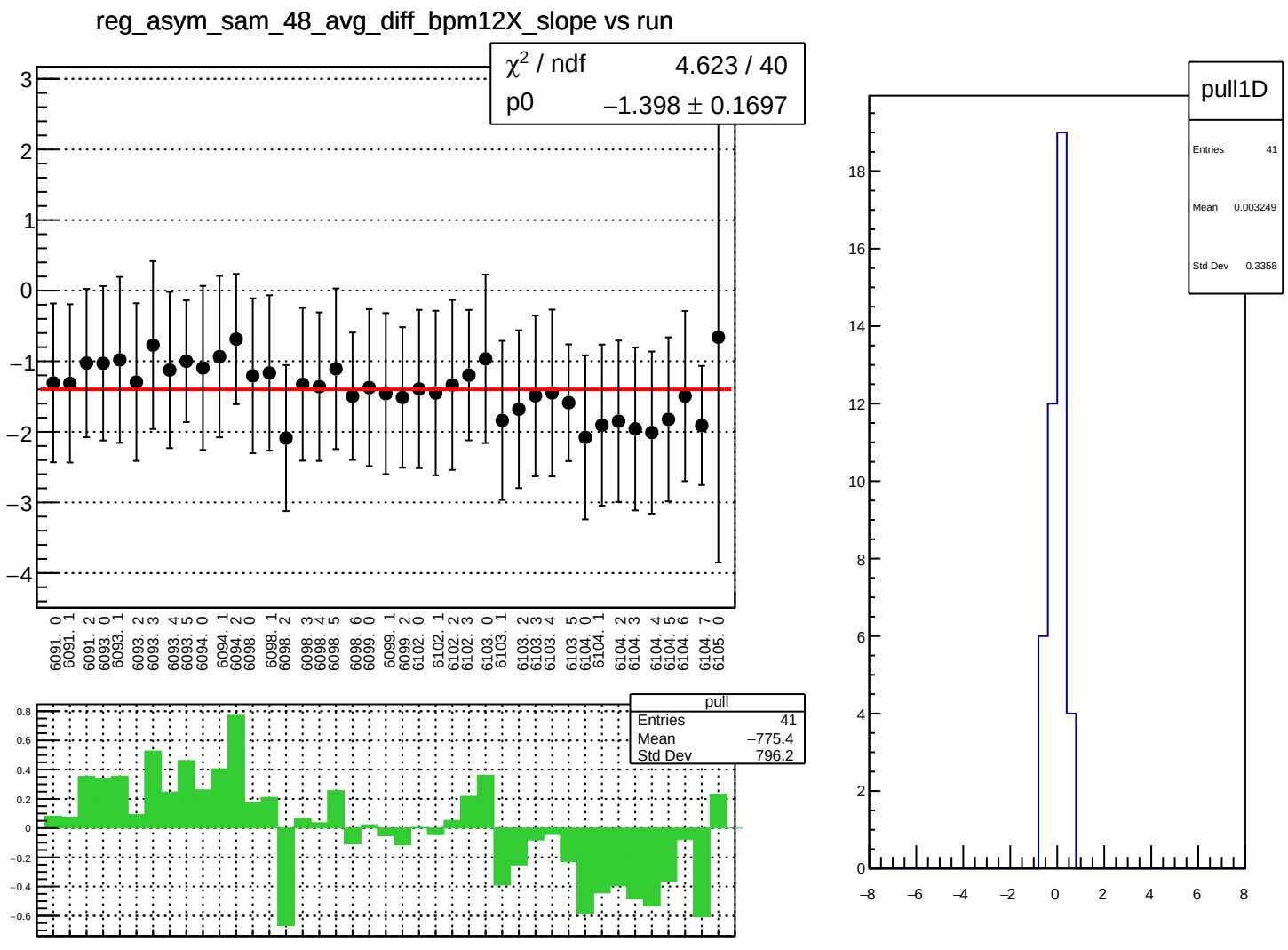

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.487 / 40
p0 −26.16 ± 3.439
pull
Entries 41
Mean 199.1
Std Dev 177
pull1D
Entries 41
Mean −0.003169
Std Dev 0.1904

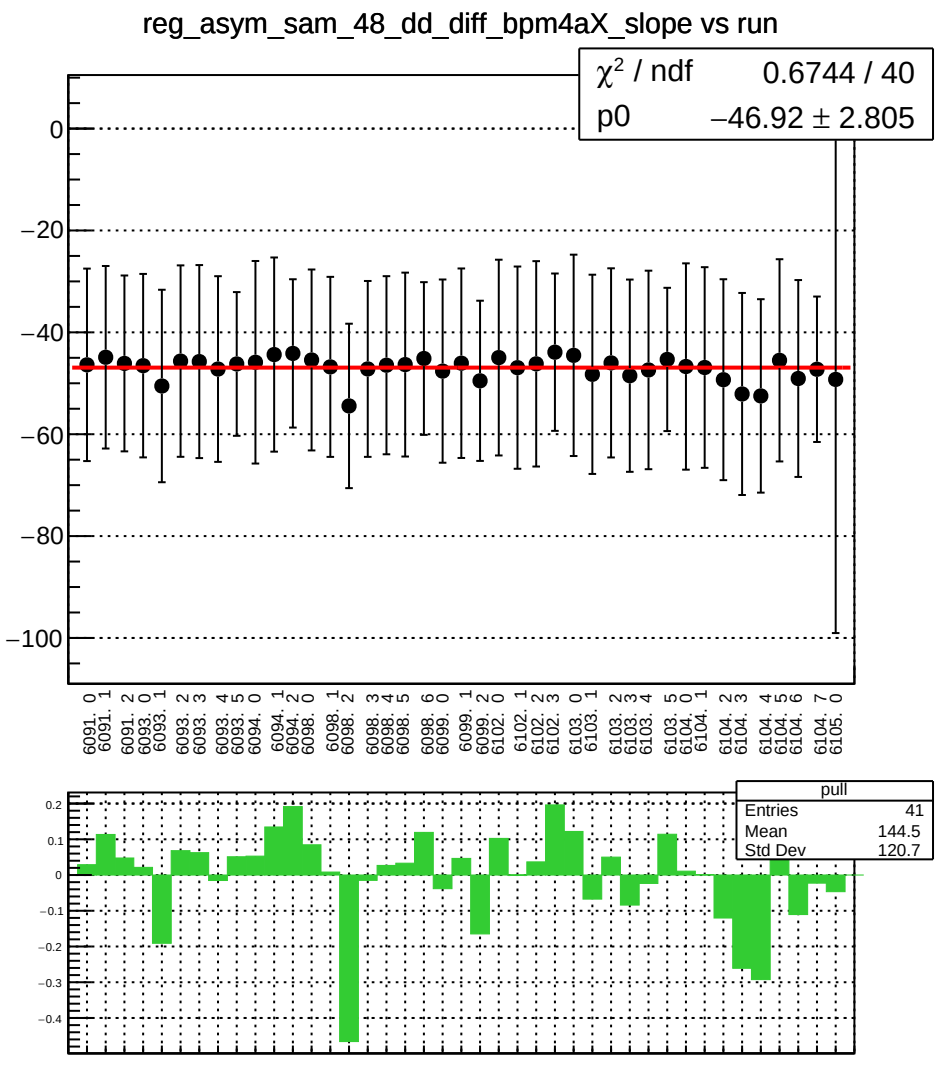

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.831 / 40
p0 −11.58 ± 2.301
80
60
40
20
0
−20
−40
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −41.43
Std Dev 63.15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.02784
Std Dev 0.3761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

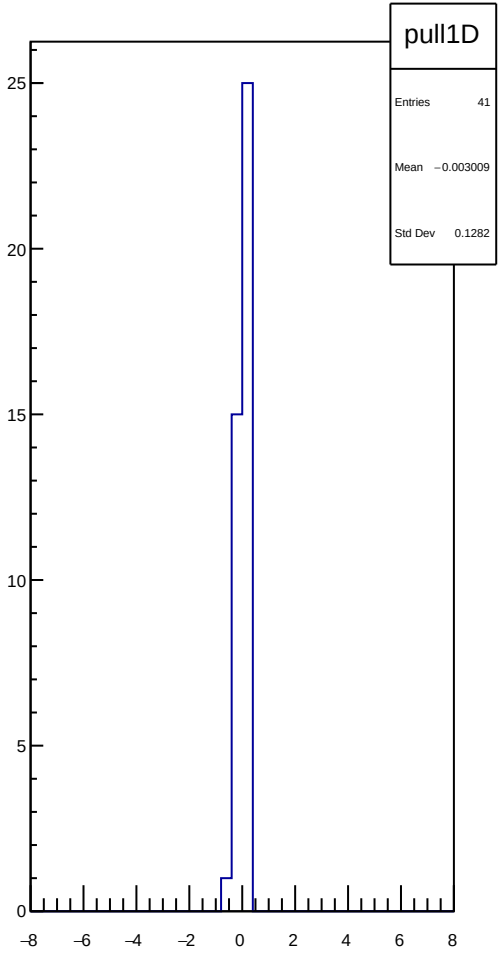

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.649 / 40
p0 −88.26 ± 4.008
pull
Entries 41
Mean 136.8
Std Dev 116.6
pull1D
Entries 41
Mean 0.003277
Std Dev 0.2005

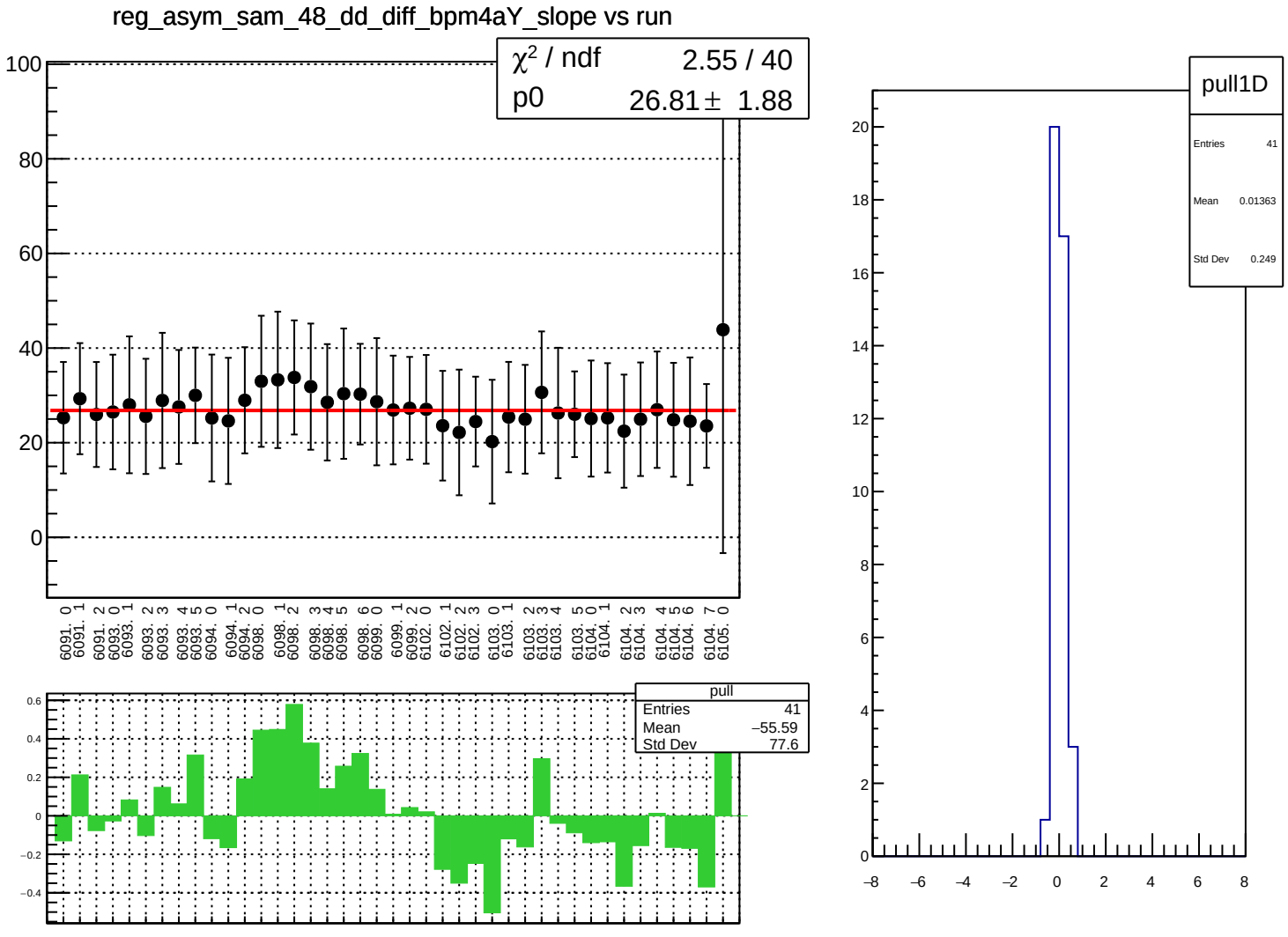

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.153 / 40
p0 150.3 ± 2.425
pull
Entries 41
Mean −65.35
Std Dev 88.21

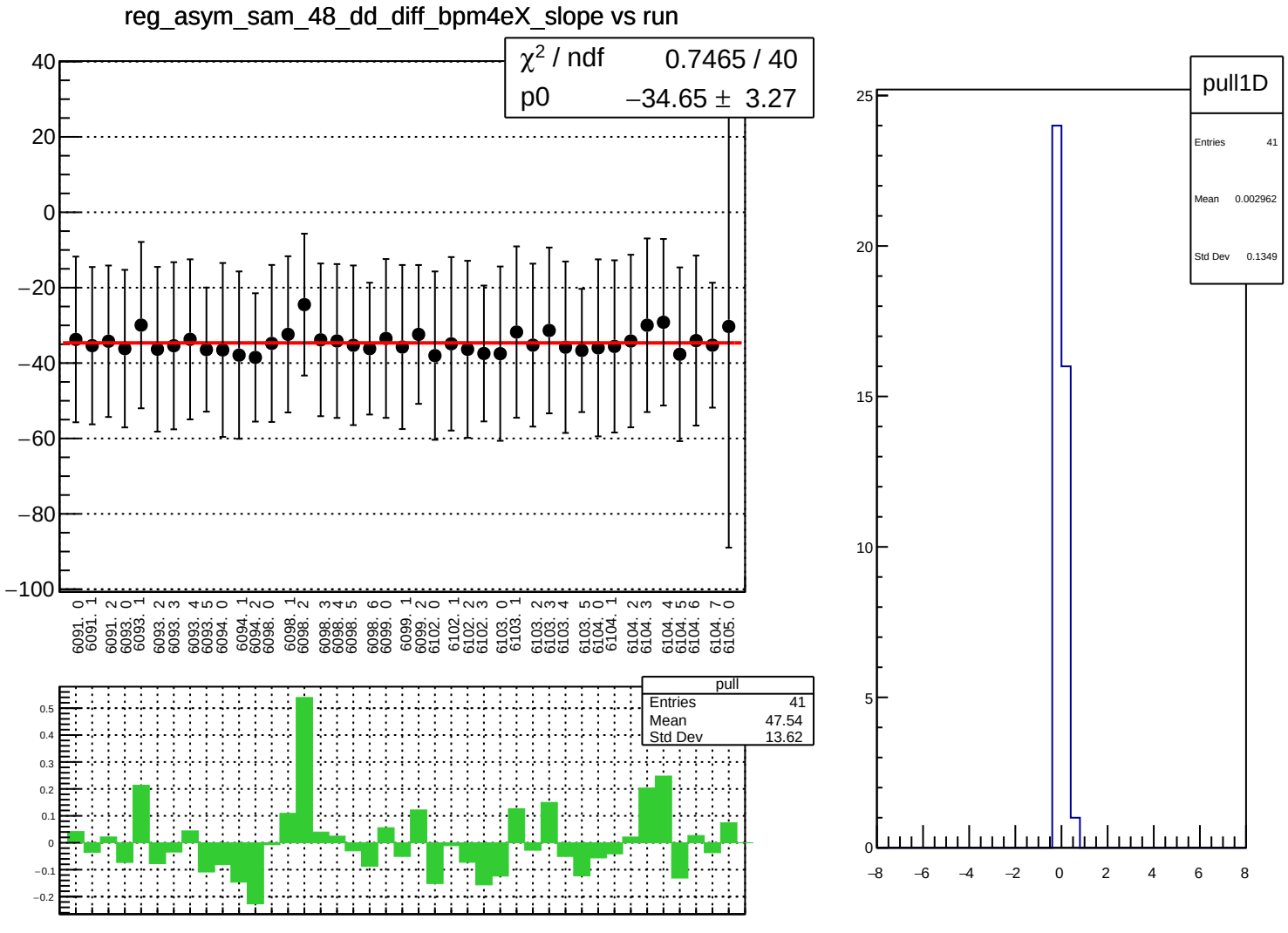

pull1D
Entries 41
Mean −0.02313
Std Dev 0.4171

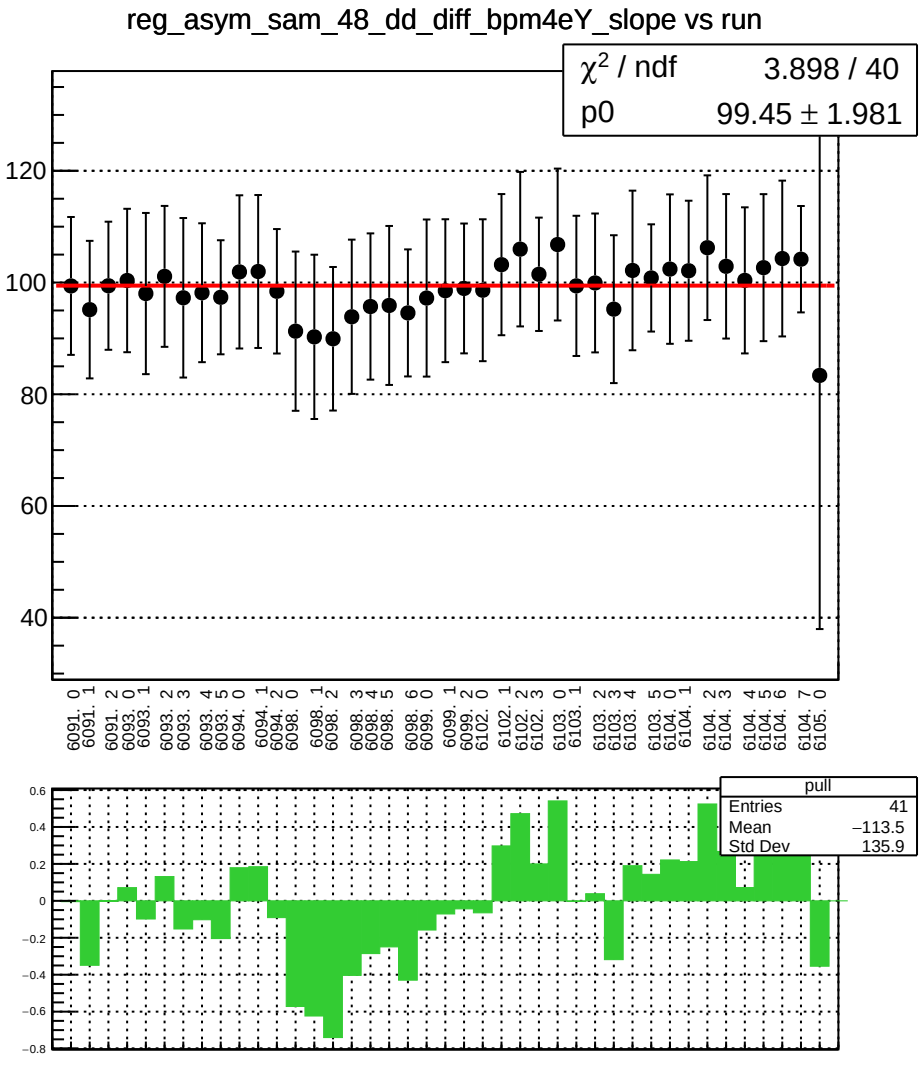

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 4.623 / 40
p0 −1.398 ± 0.1697
pull
Entries 41
Mean −775.4
Std Dev 796.2
pull1D
Entries 41
Mean 0.003249
Std Dev 0.3358

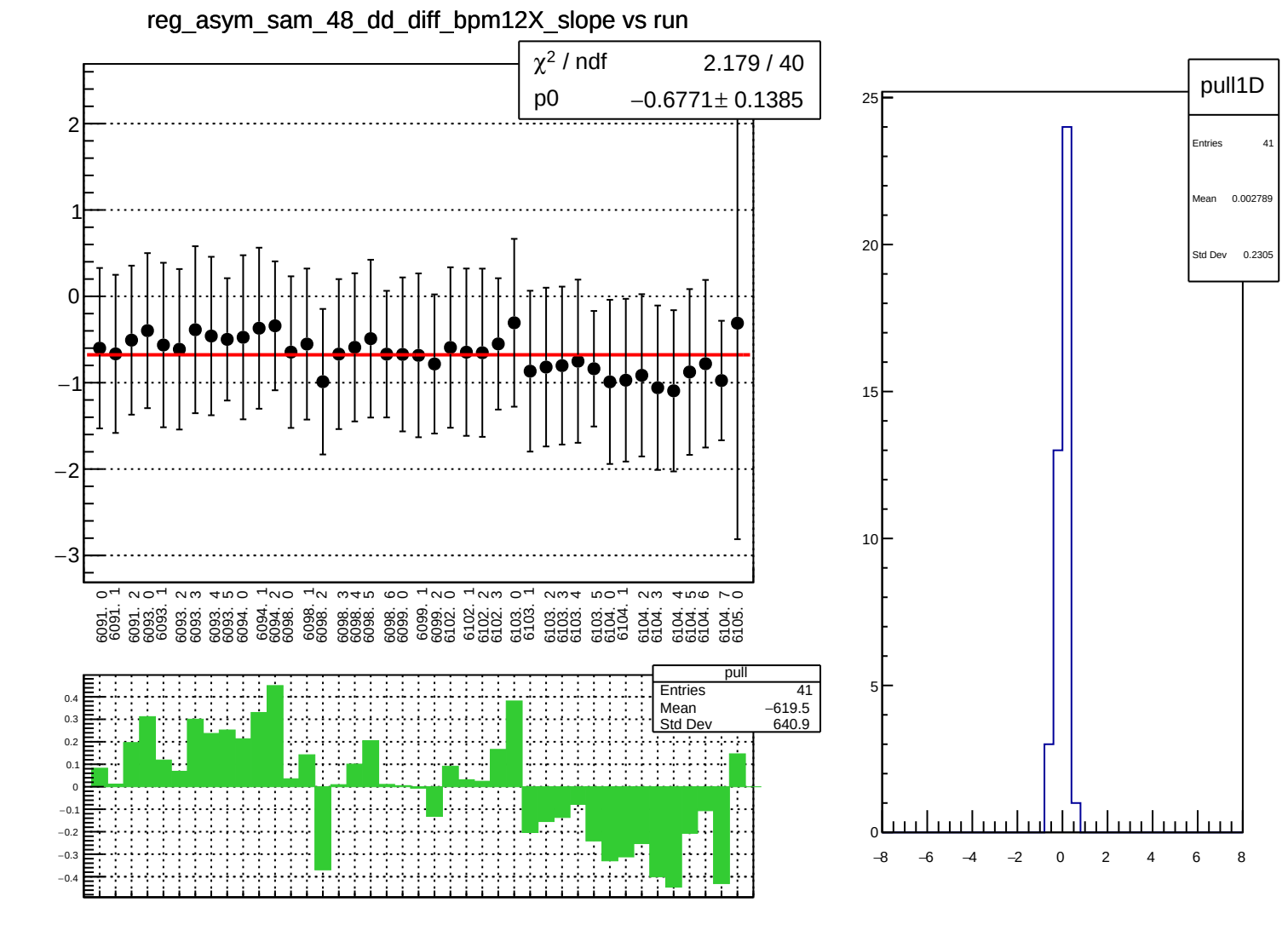

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.6744 / 40
p0 −46.92 ± 2.805
0
−20
−40
−60
−80
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 144.5
Std Dev 120.7
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

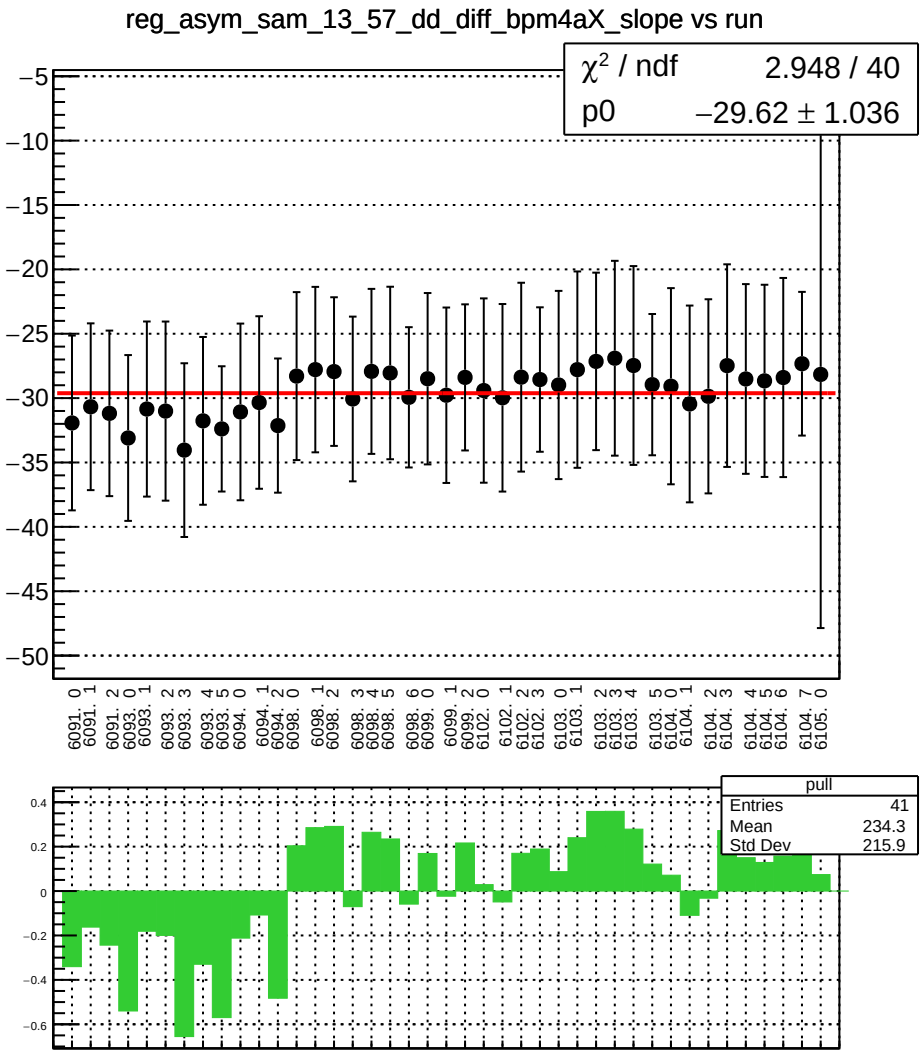

pull1D
Entries 41
Mean −0.003009
Std Dev 0.1282
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

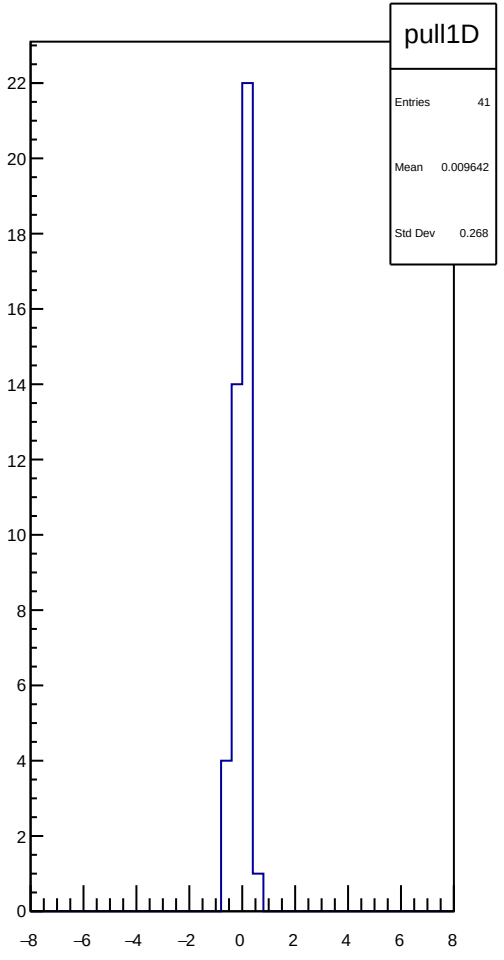

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.55 / 40
p0 26.81 ± 1.88
pull
Entries 41
Mean −55.59
Std Dev 77.6
pull1D
Entries 41
Mean 0.01363
Std Dev 0.249

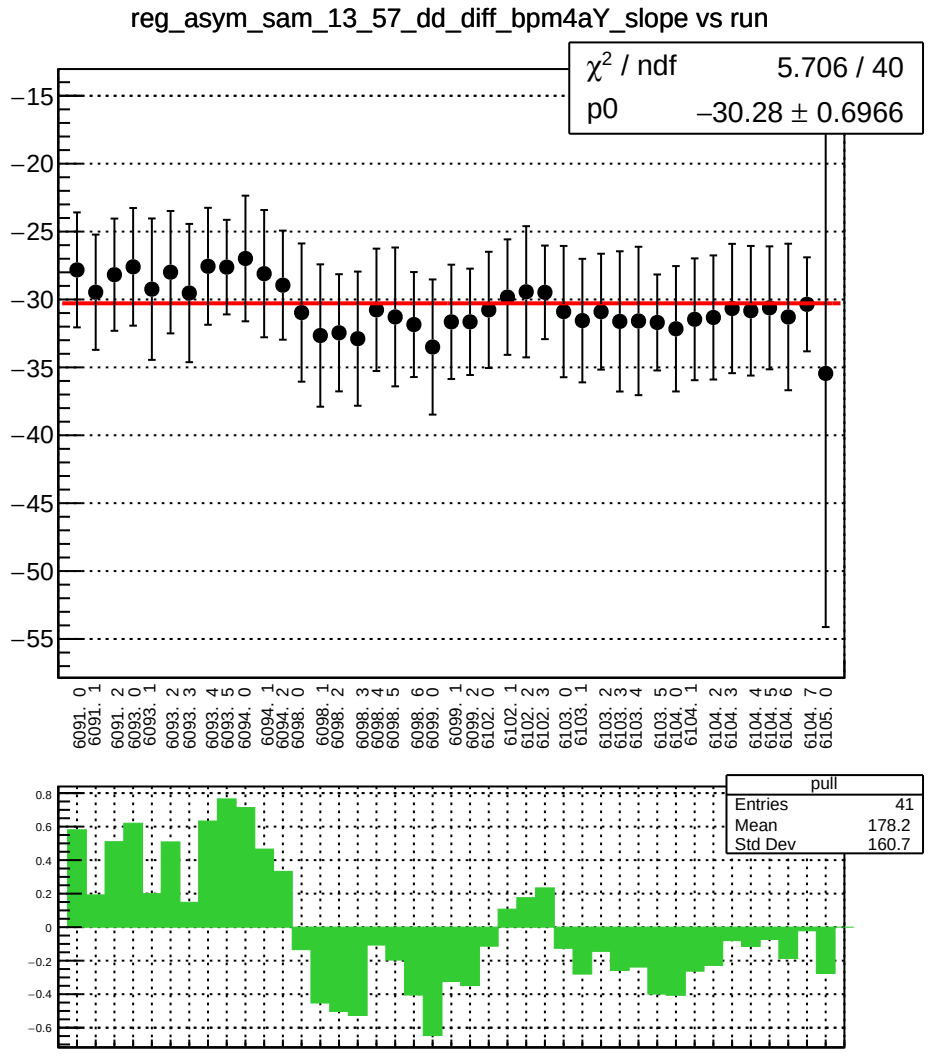

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7465 / 40
p0 −34.65 ± 3.27
40
20
0
−20
−40
−60
−80
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 47.54
Std Dev 13.62
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean 0.002962
Std Dev 0.1349
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

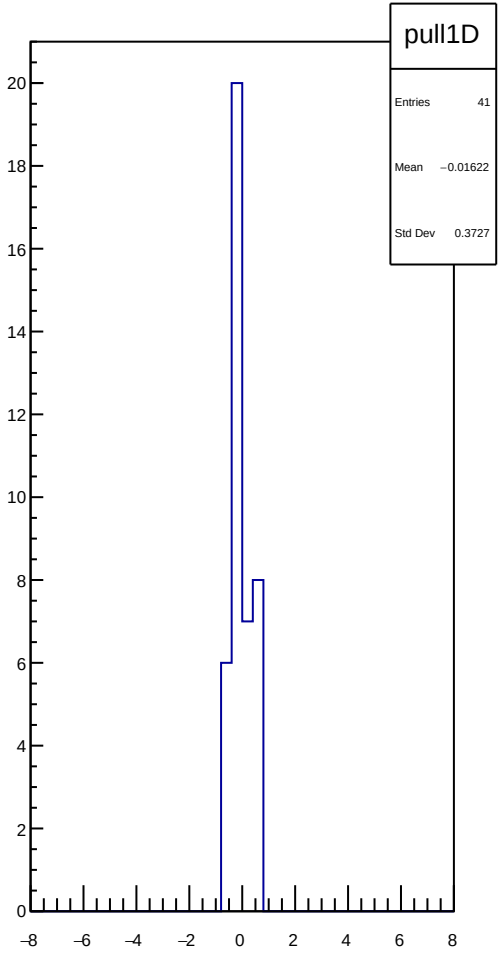

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.898 / 40
p0 99.45 ± 1.981
120
100
80
60
40
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −113.5
Std Dev 135.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.0118
Std Dev 0.3081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

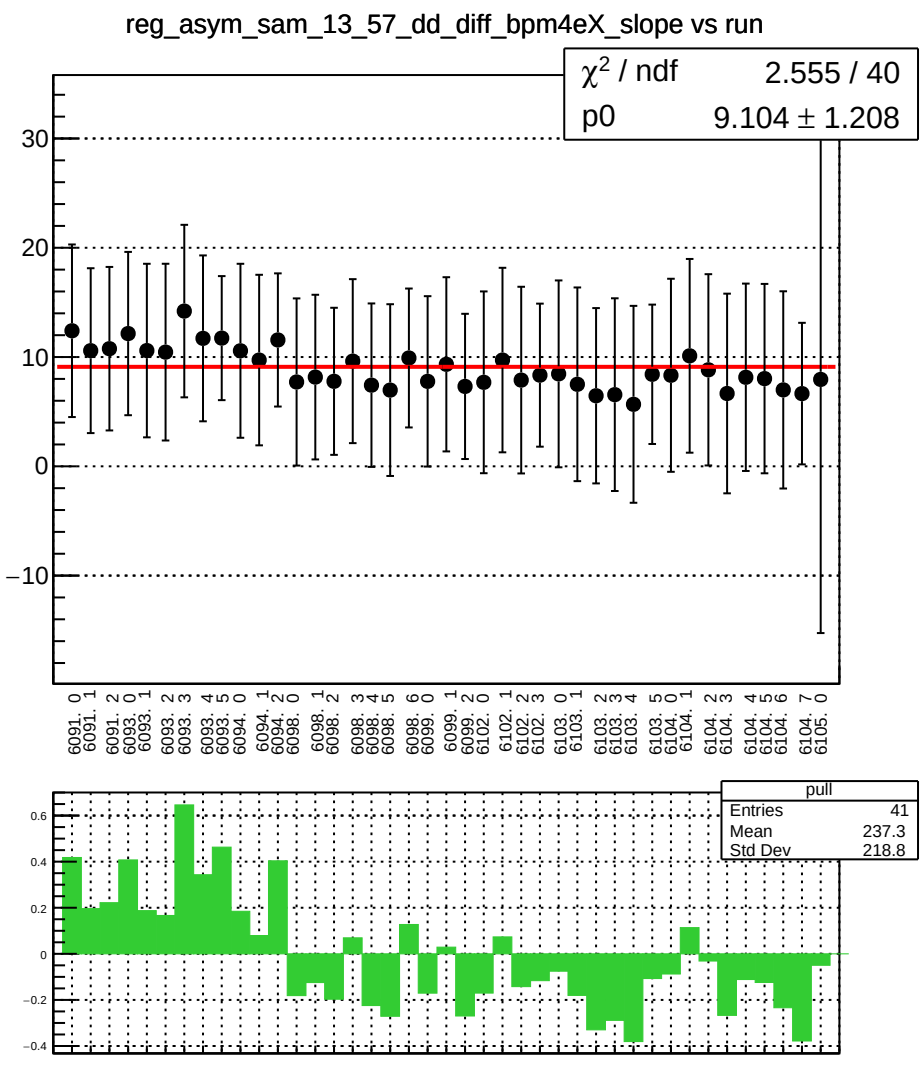

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.179 / 40
p0 −0.6771± 0.1385
pull
Entries 41
Mean −619.5
Std Dev 640.9
pull1D
Entries 41
Mean 0.002789
Std Dev 0.2305

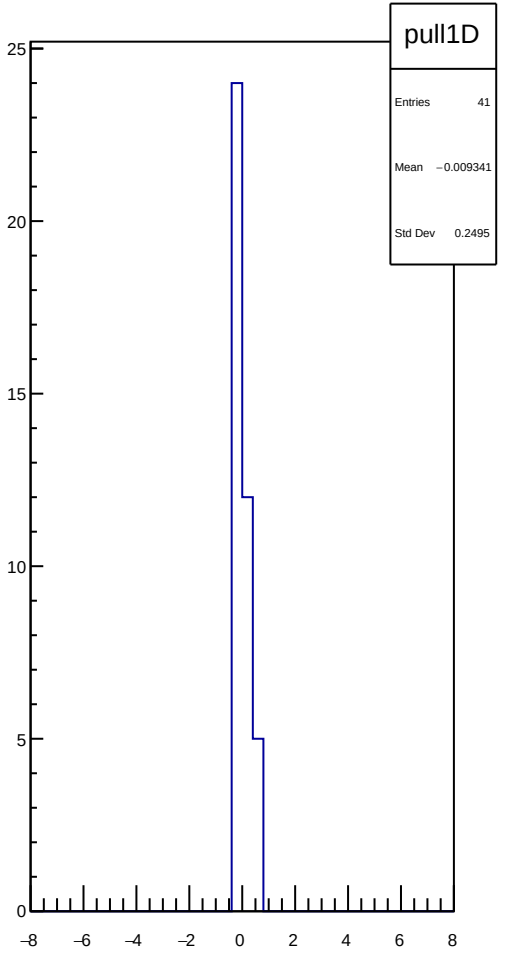

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.948 / 40
p0 −29.62 ± 1.036
pull
Entries 41
Mean 234.3
Std Dev 215.9

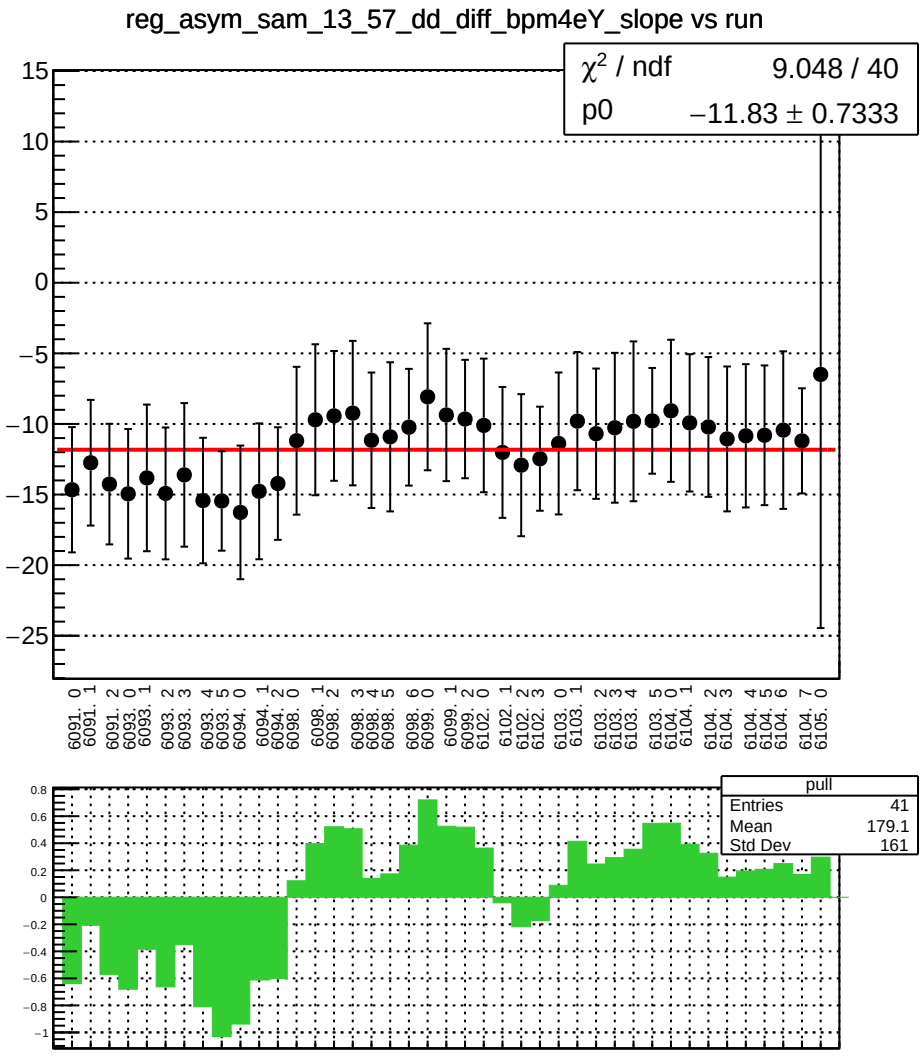

pull1D
Entries 41
Mean 0.009642
Std Dev 0.268

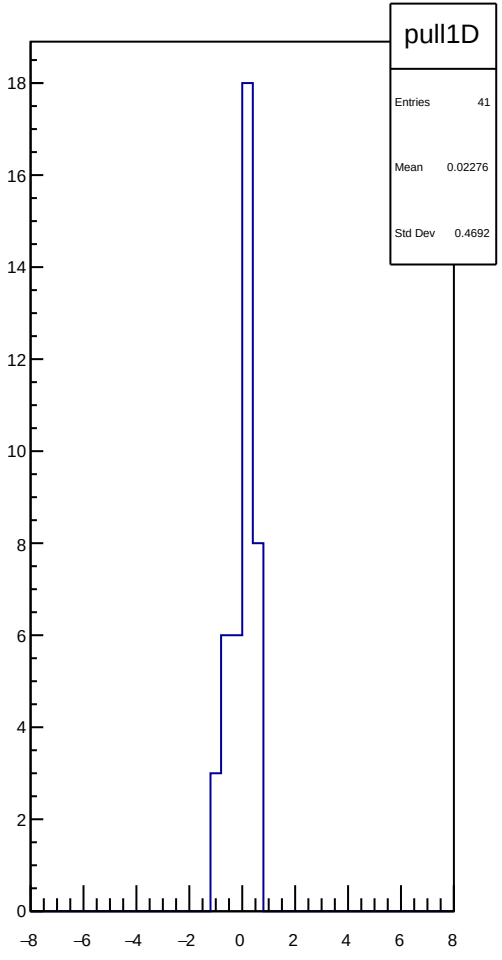

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.706 / 40
p0 −30.28 ± 0.6966
pull
Entries 41
Mean 178.2
Std Dev 160.7

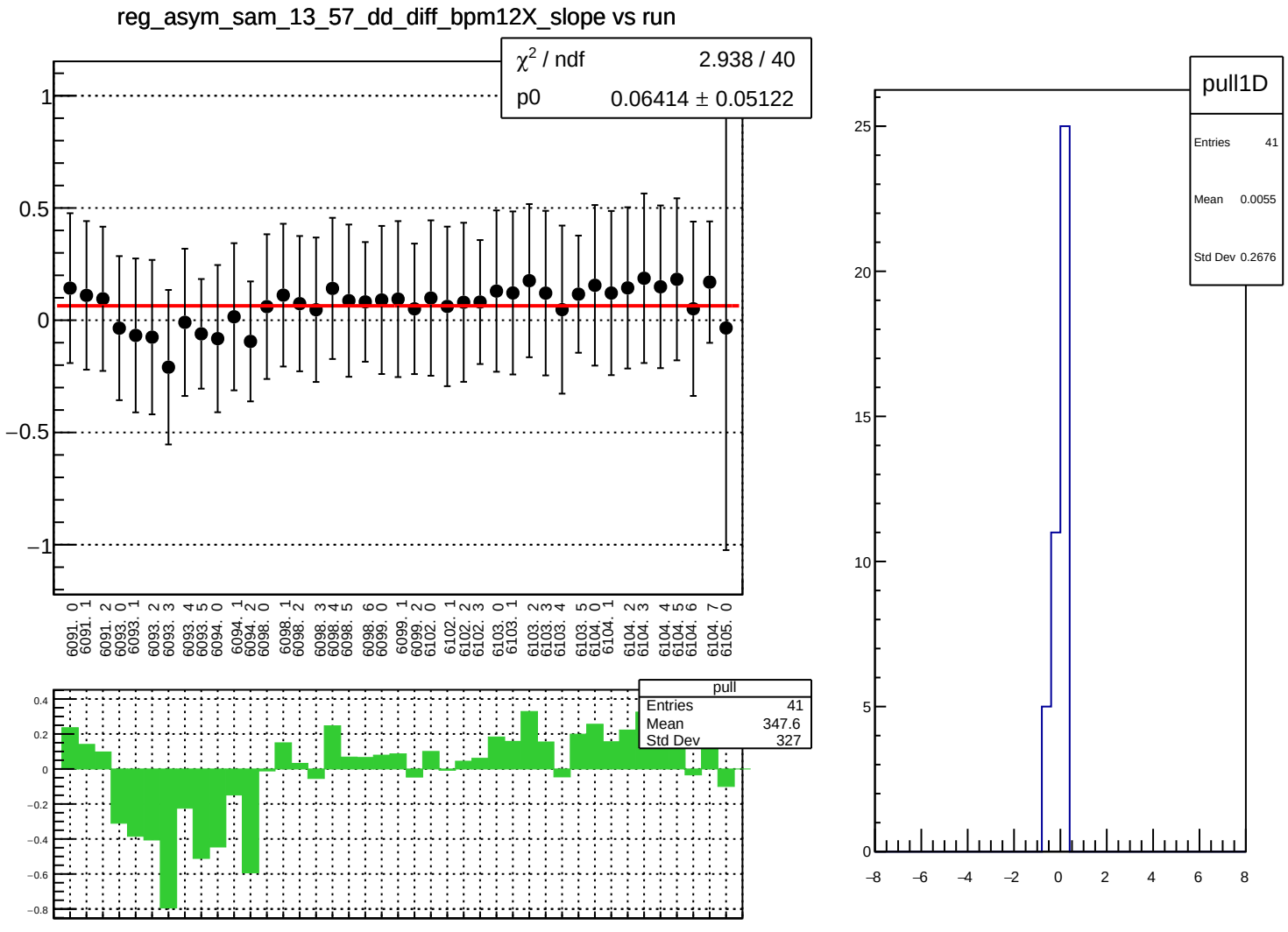

pull1D
Entries 41
Mean −0.01622
Std Dev 0.3727

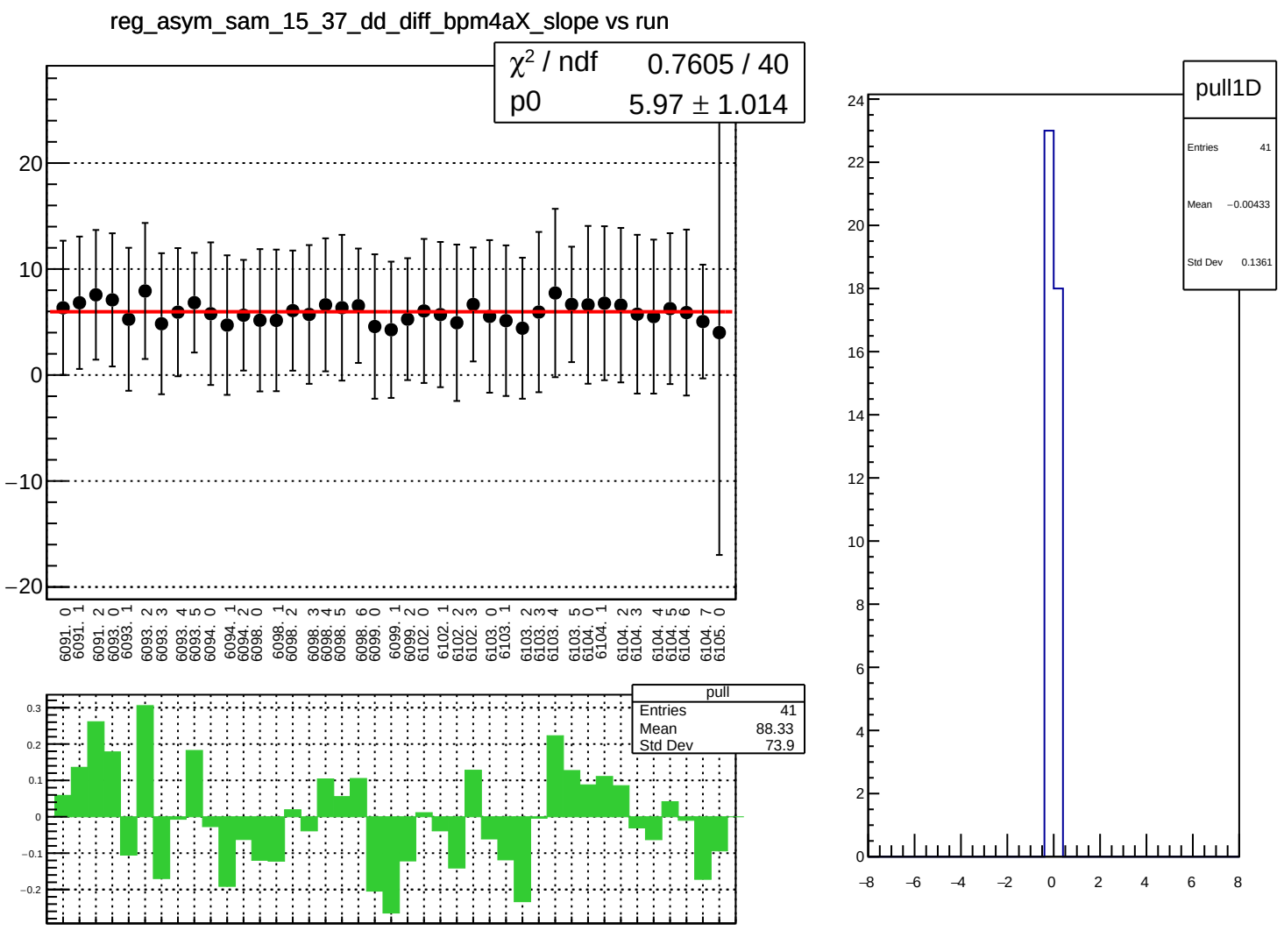

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.555 / 40
p0 9.104 ± 1.208
30
20
10
0
−10
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 237.3
Std Dev 218.8
0.6
0.4
0.2
0
−0.2
−0.4

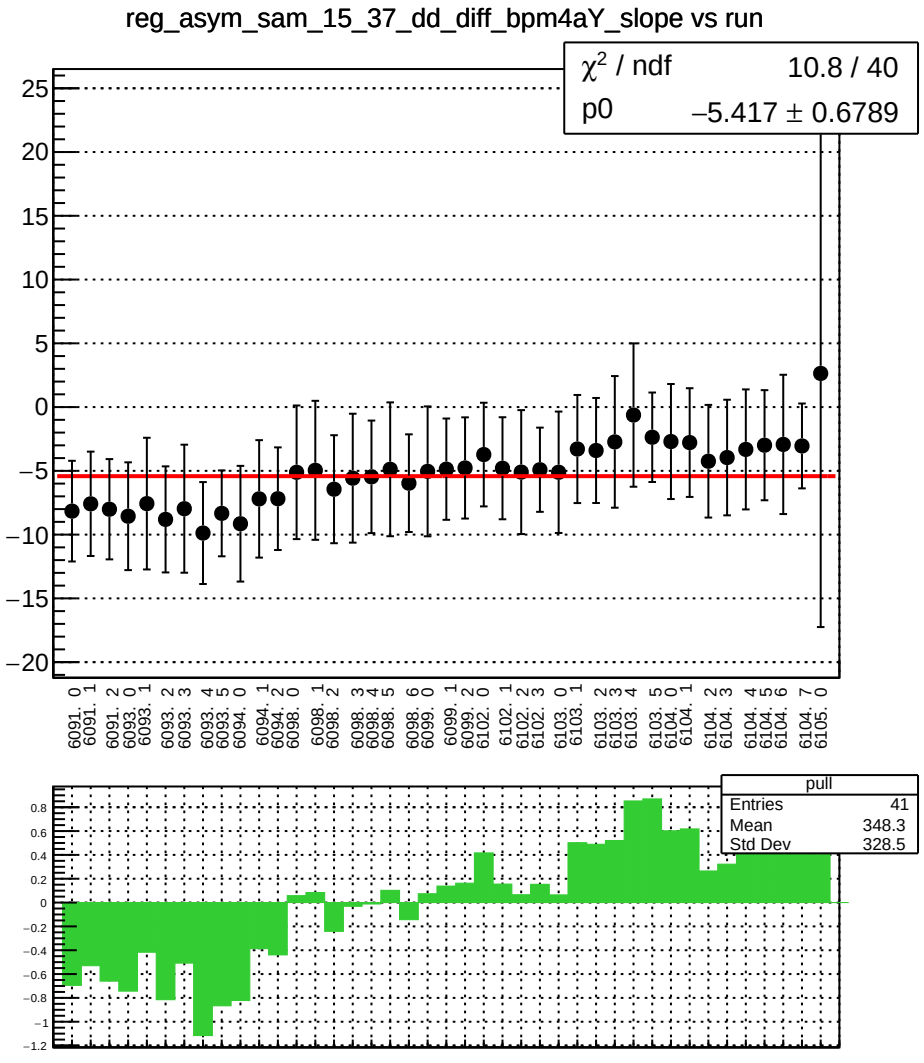

pull1D
Entries 41
Mean −0.009341
Std Dev 0.2495
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

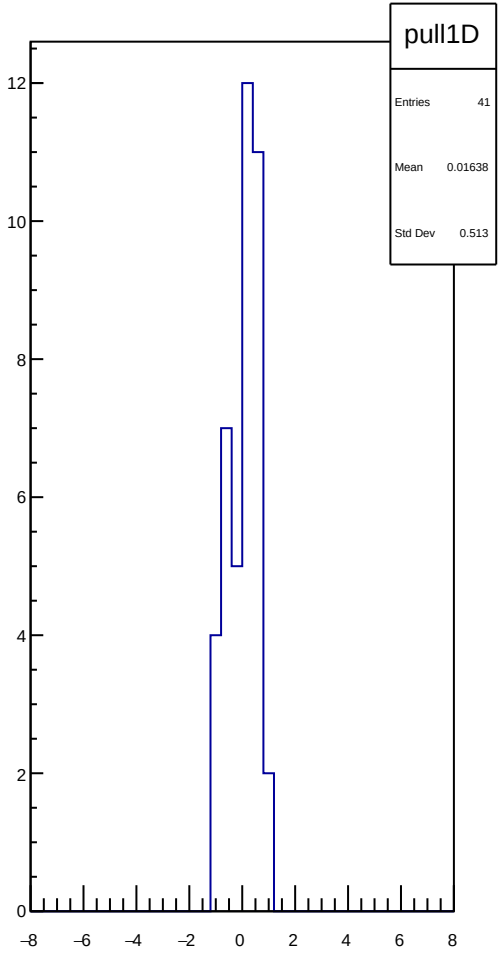

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.048 / 40
p0 −11.83 ± 0.7333
pull
Entries 41
Mean 179.1
Std Dev 161

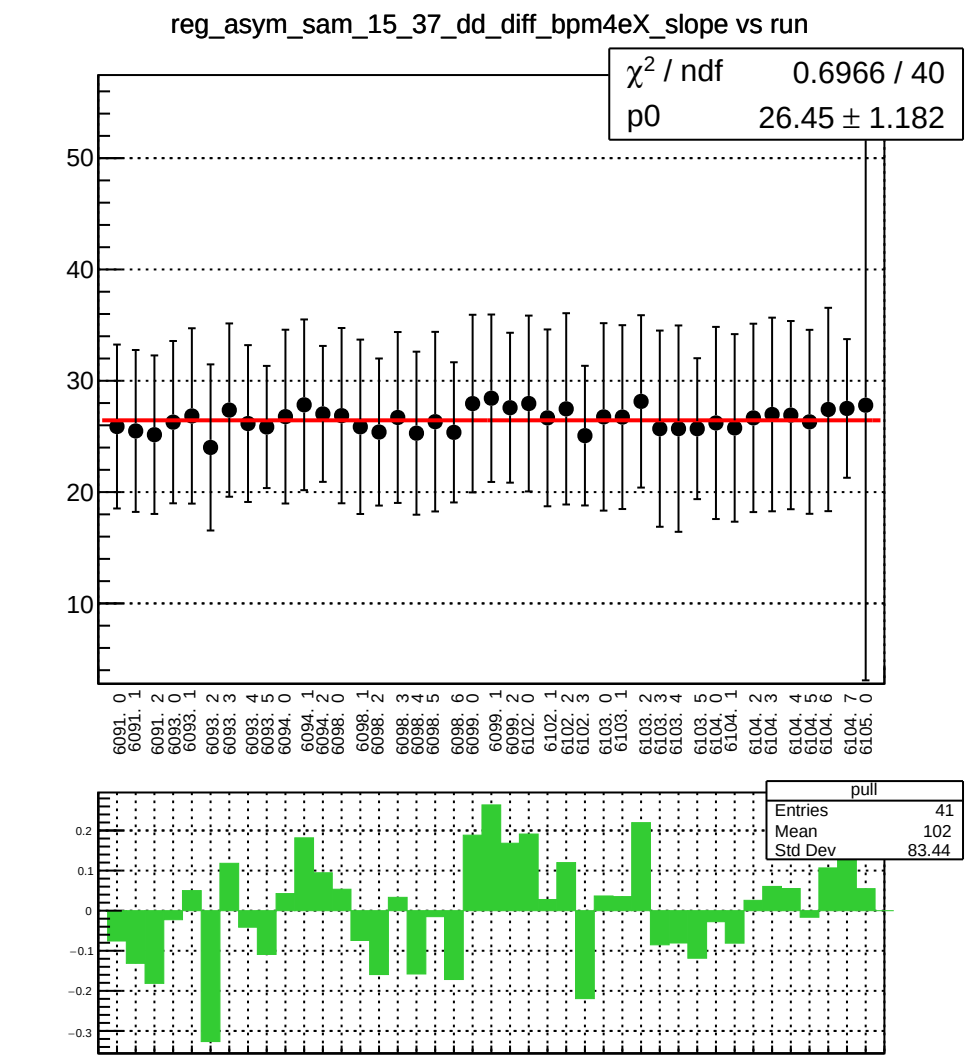

pull1D
Entries 41
Mean 0.02276
Std Dev 0.4692

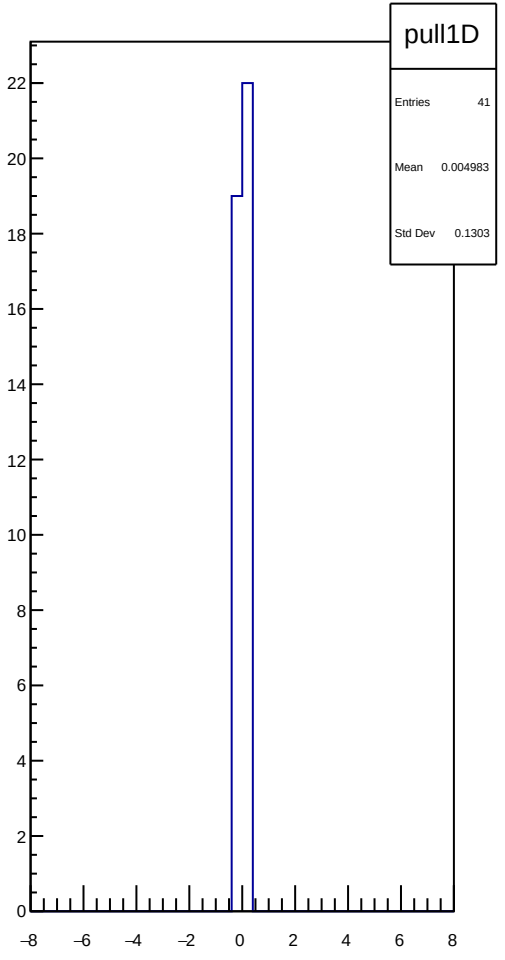

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.938 / 40
p0 0.06414 ± 0.05122
1
0.5
0
−0.5
−1
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 347.6
Std Dev 327
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.0055
Std Dev 0.2676
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

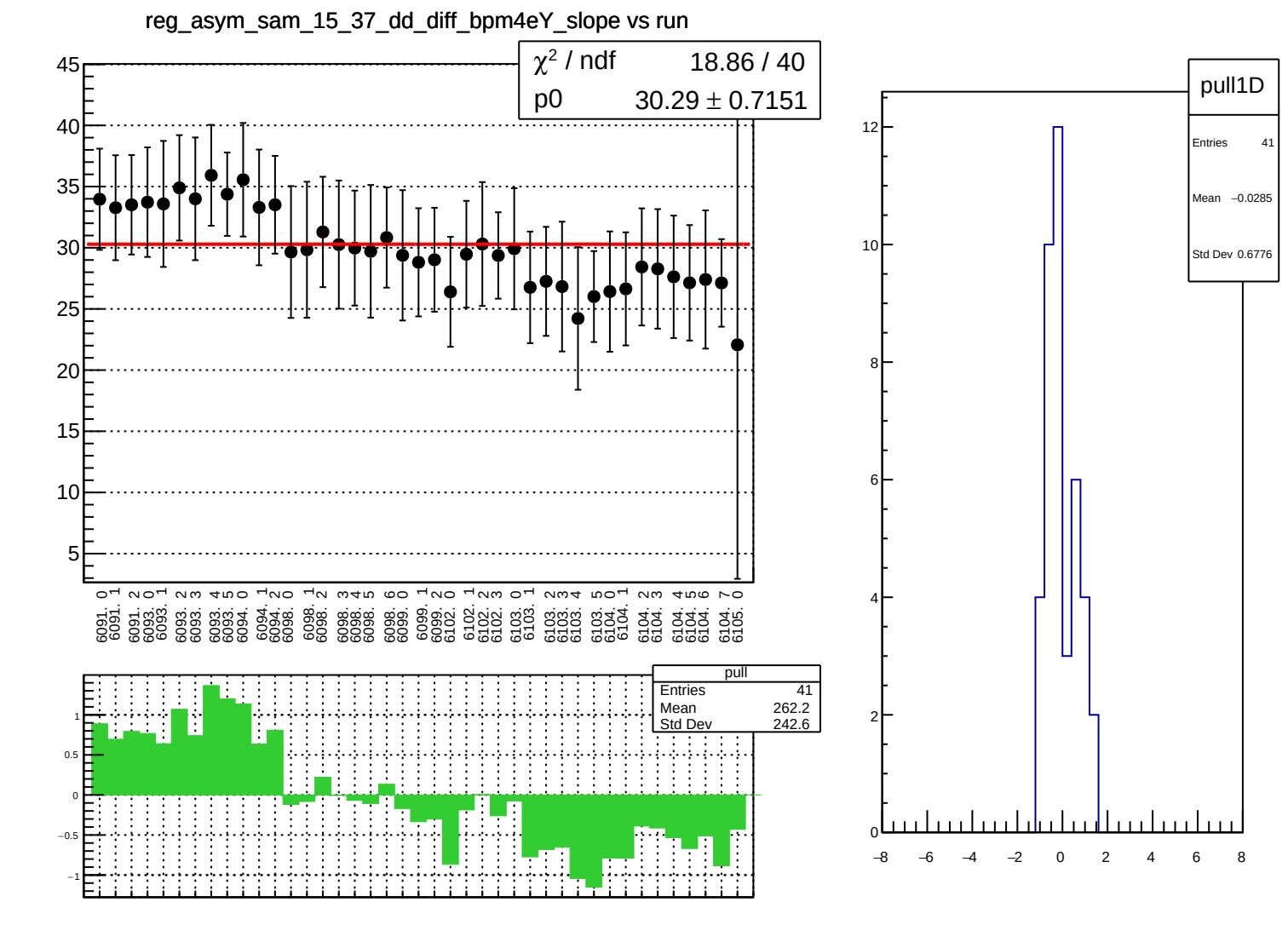

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.7605 / 40
p0 5.97 ± 1.014
20
10
0
−10
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 88.33
Std Dev 73.9
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean −0.00433
Std Dev 0.1361
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

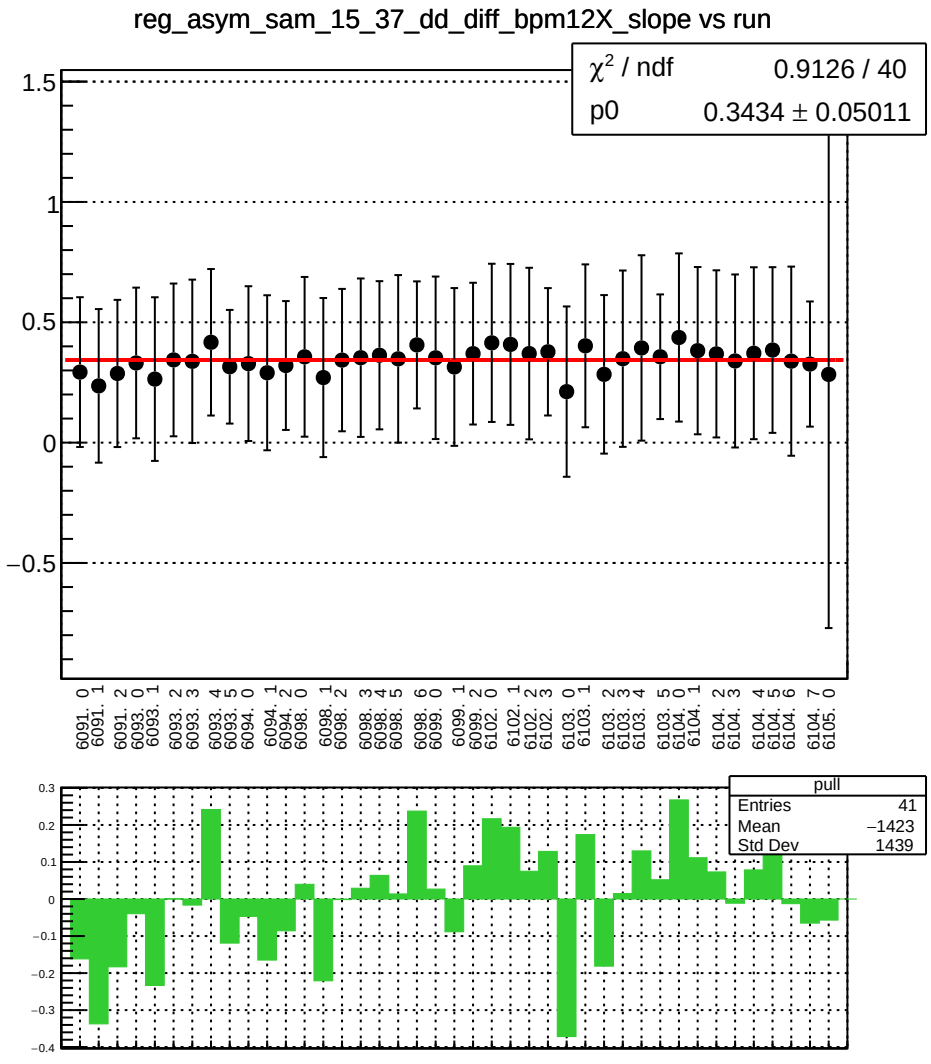

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.8 / 40
p0 −5.417 ± 0.6789
pull
Entries 41
Mean 348.3
Std Dev 328.5

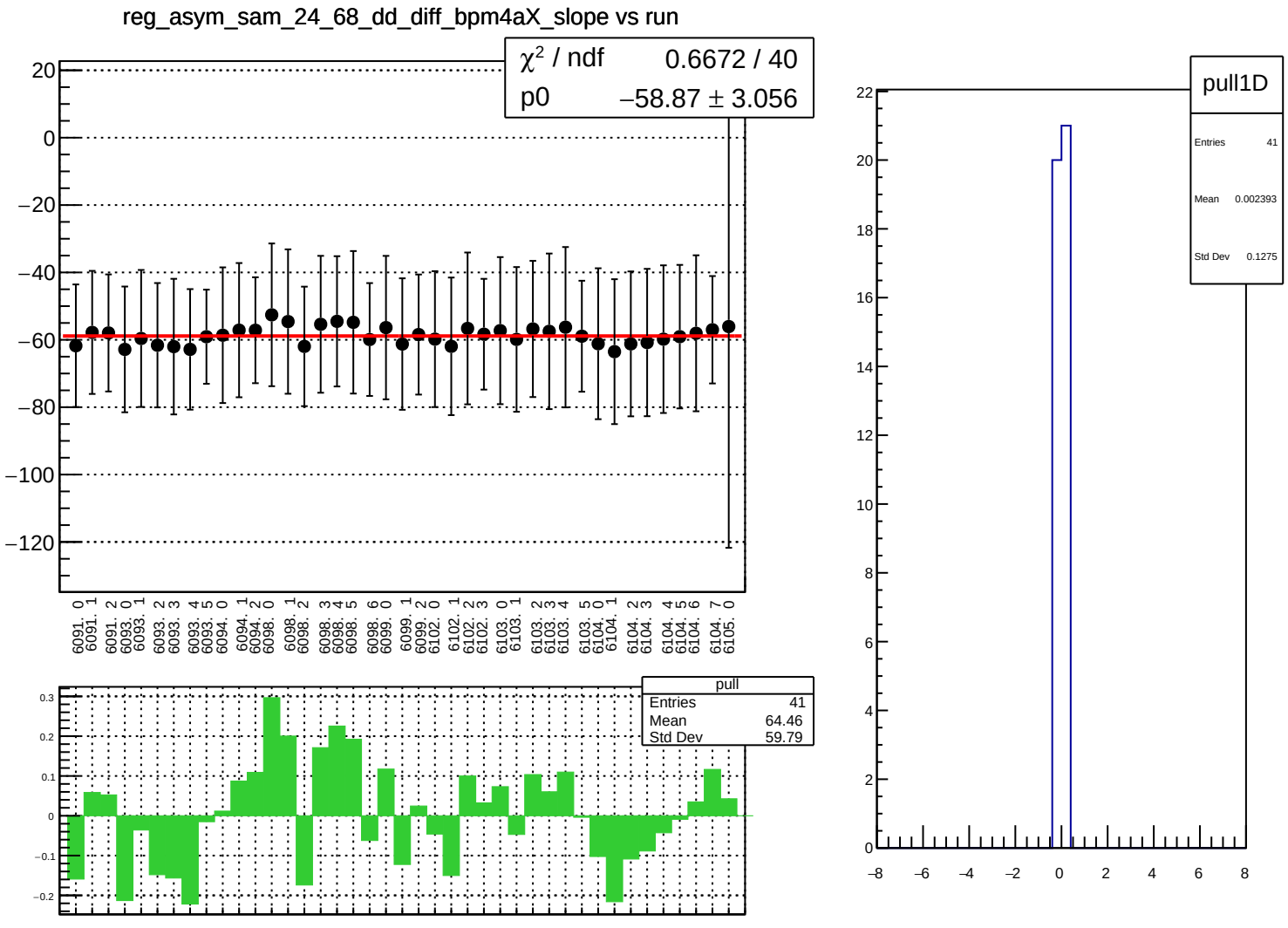

pull1D
Entries 41
Mean 0.01638
Std Dev 0.513

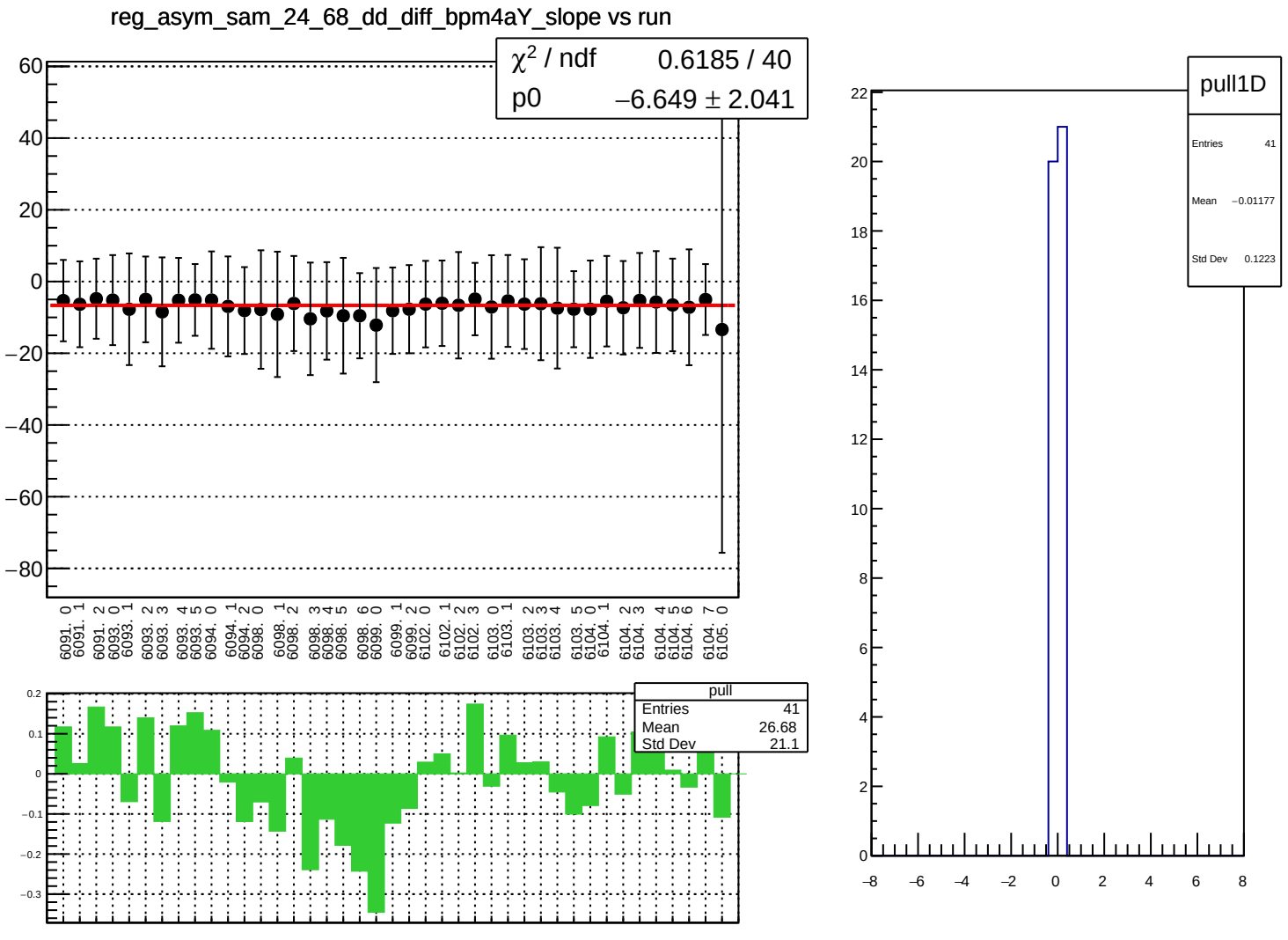

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6966 / 40
p0 26.45 ± 1.182
pull
Entries 41
Mean 102
Std Dev 83.44

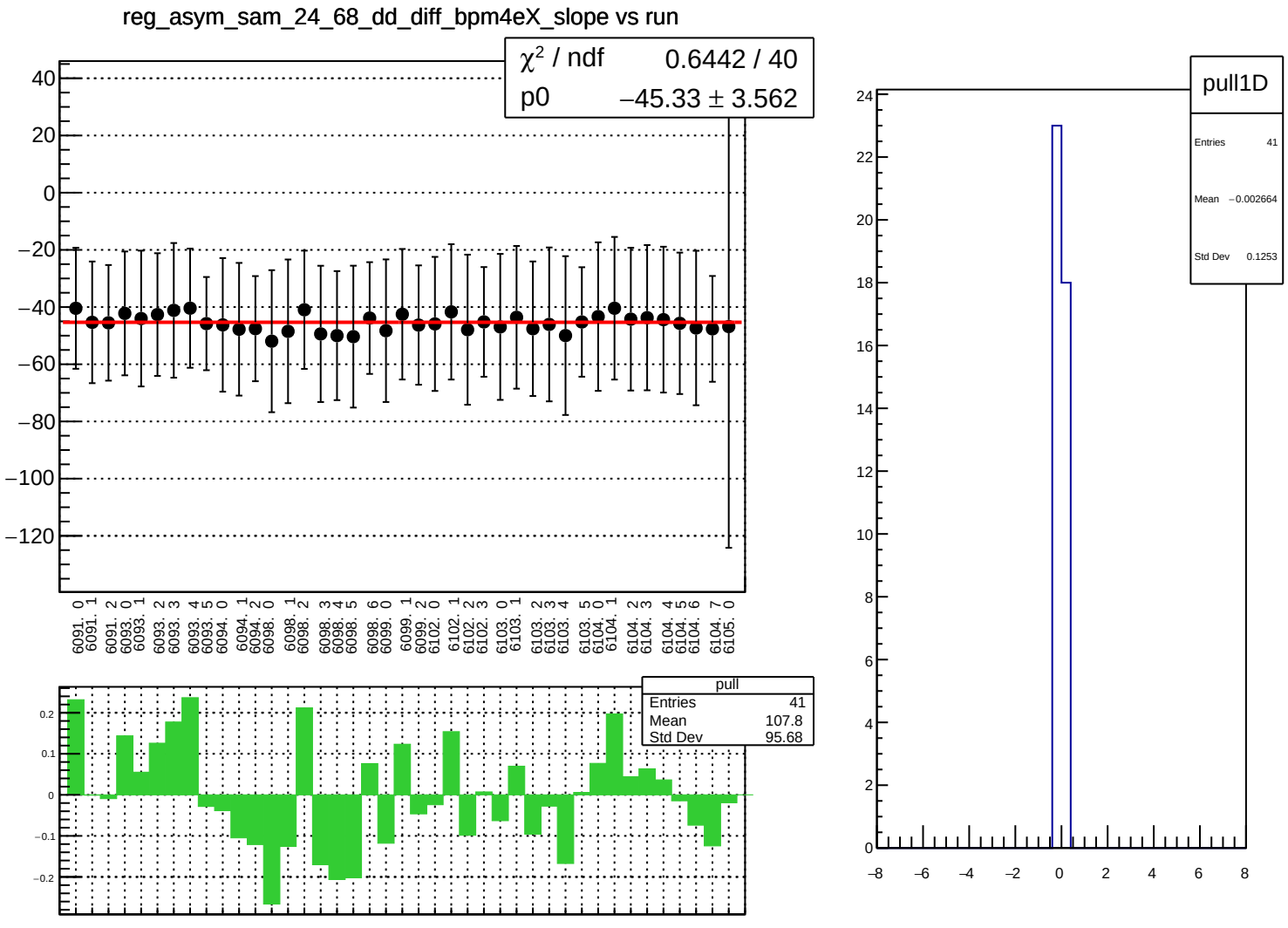

pull1D
Entries 41
Mean 0.004983
Std Dev 0.1303

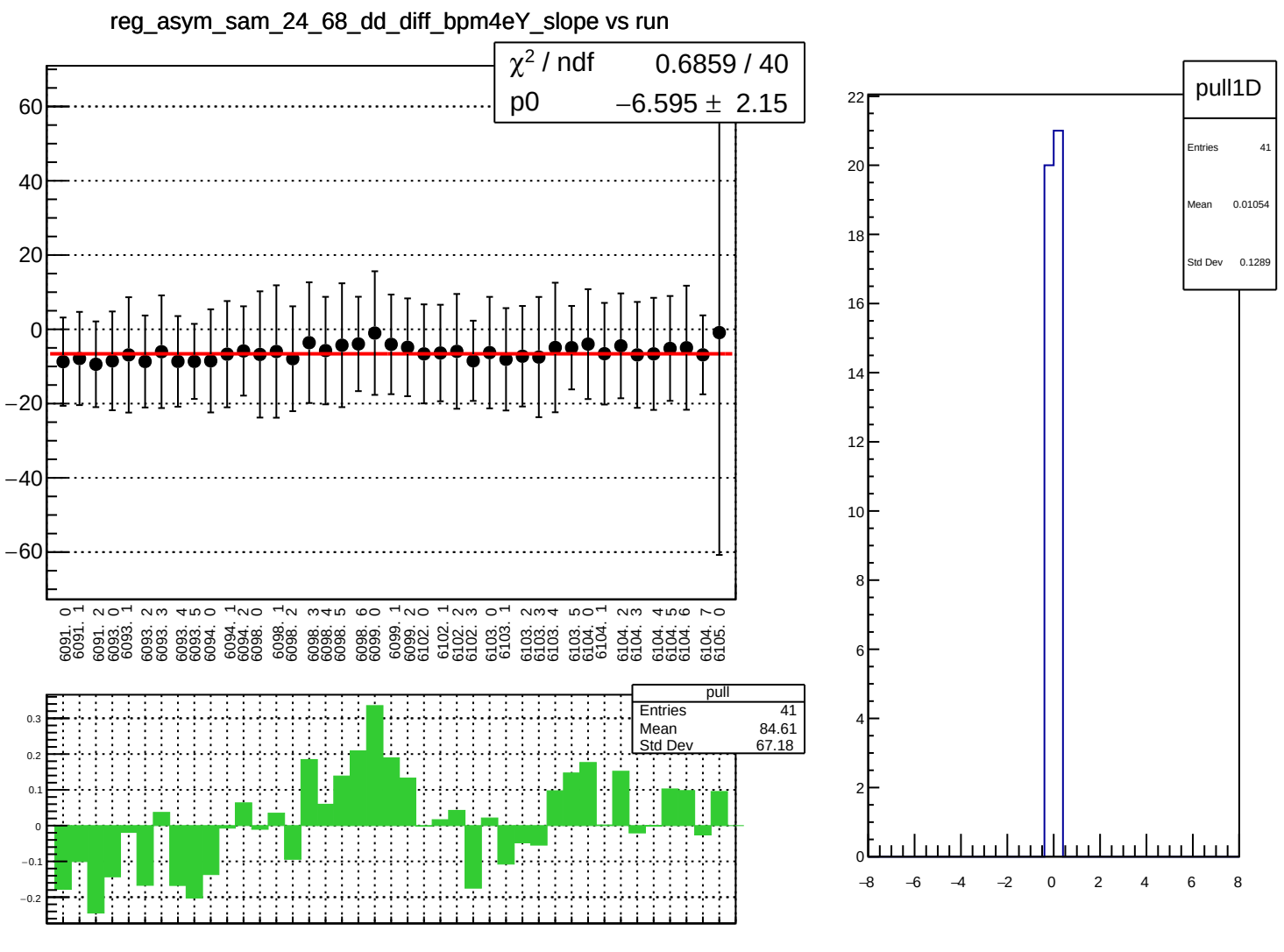

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.86 / 40
p0 30.29 ± 0.7151
pull
Entries 41
Mean 262.2
Std Dev 242.6
pull1D
Entries 41
Mean −0.0285
Std Dev 0.6776

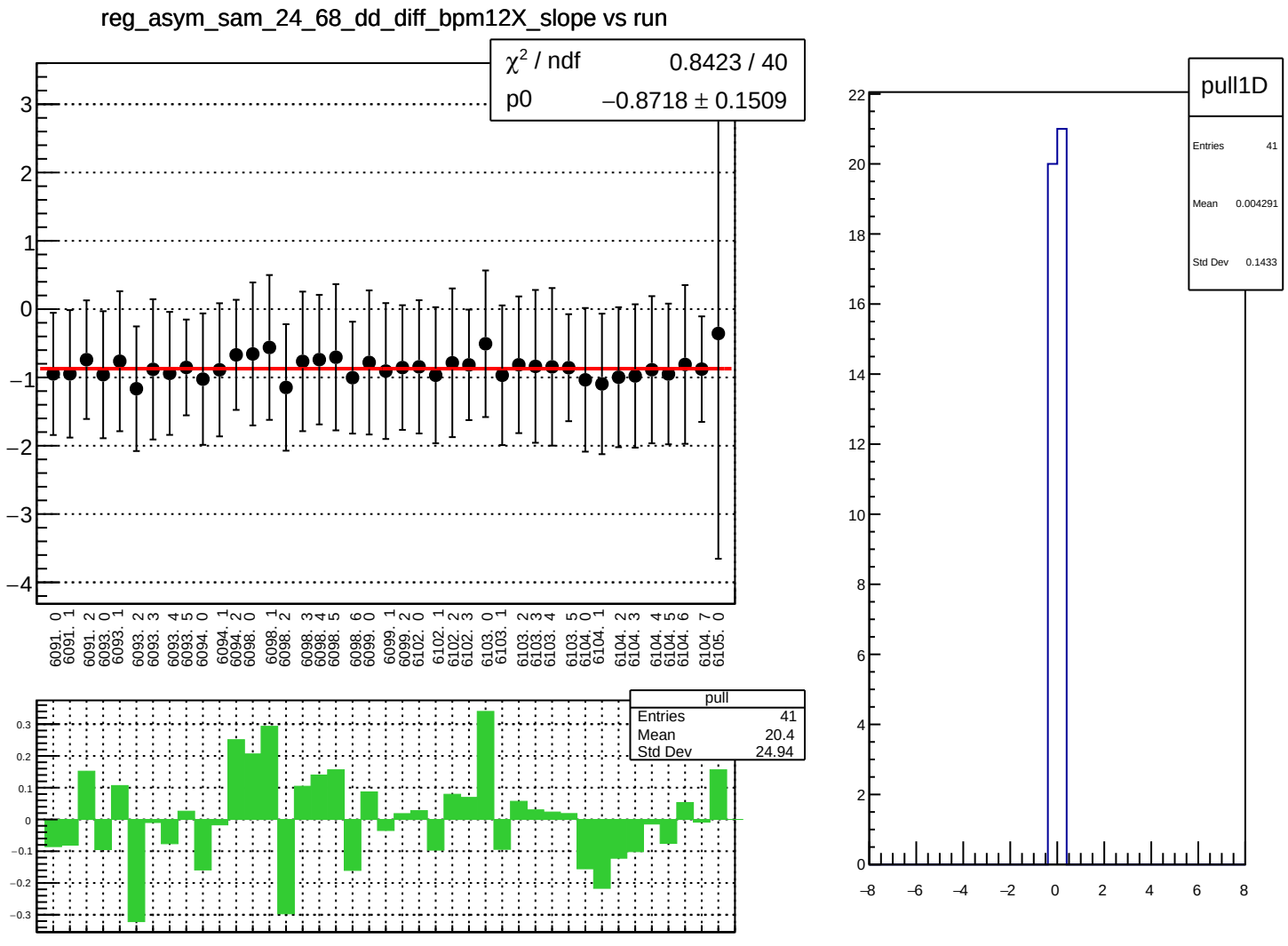

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9126 / 40
p0 0.3434 ± 0.05011
1.5
1
0.5
0
−0.5
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1423
Std Dev 1439
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 41
Mean −0.0004542
Std Dev 0.1492
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

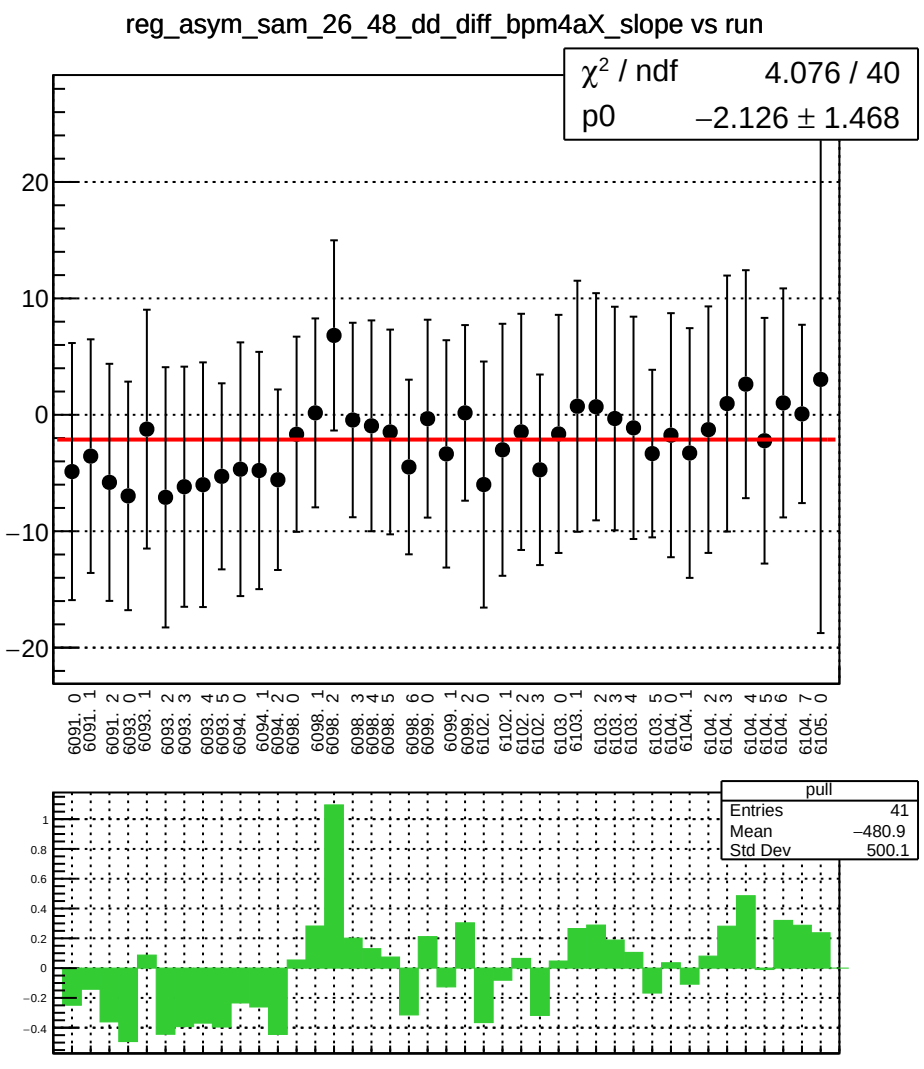

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.6672 / 40
p0 −58.87 ± 3.056
pull
Entries 41
Mean 64.46
Std Dev 59.79
pull1D
Entries 41
Mean 0.002393
Std Dev 0.1275

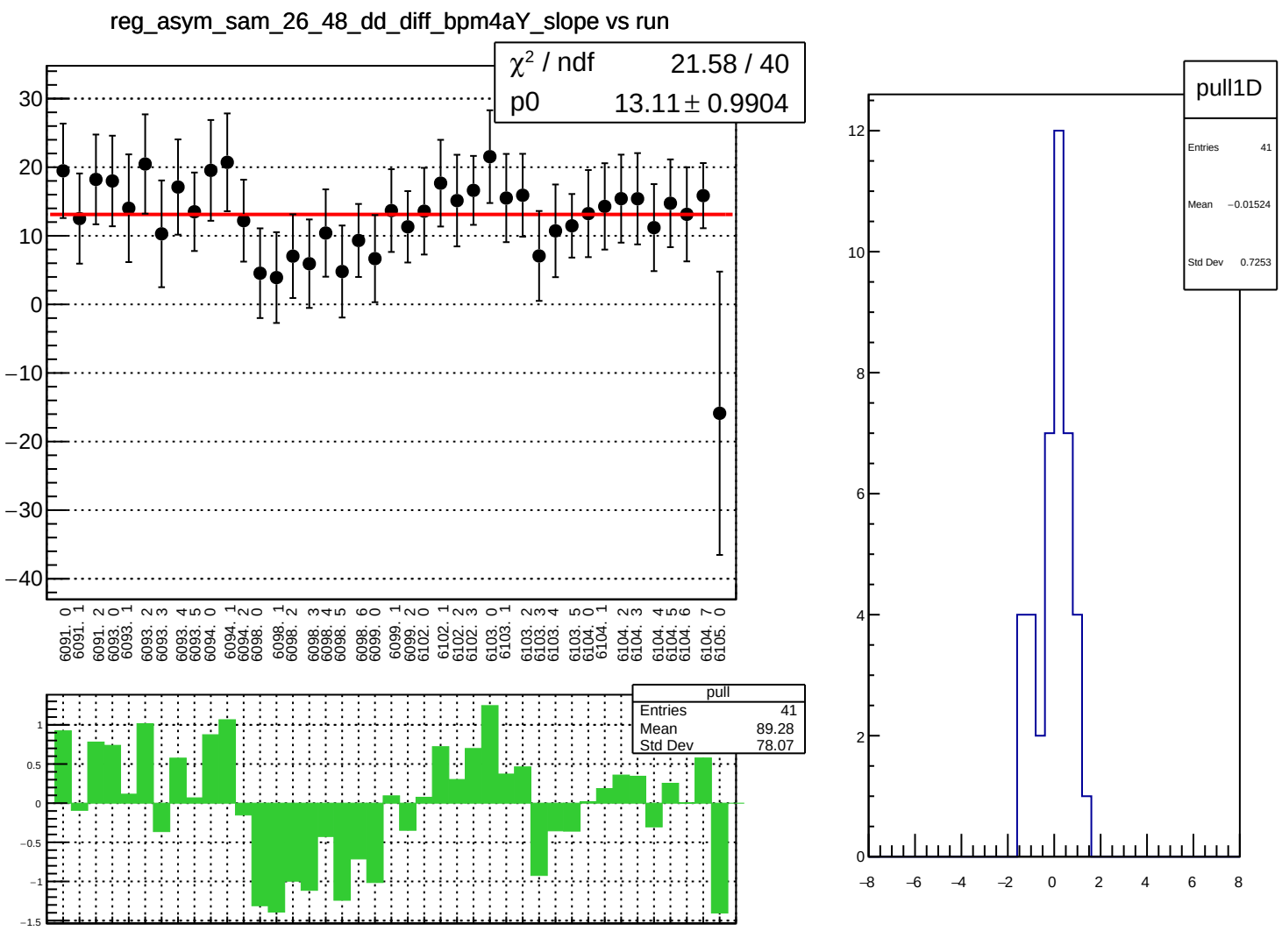

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6185 / 40
p0 −6.649 ± 2.041
pull
Entries 41
Mean 26.68
Std Dev 21.1
pull1D
Entries 41
Mean −0.01177
Std Dev 0.1223

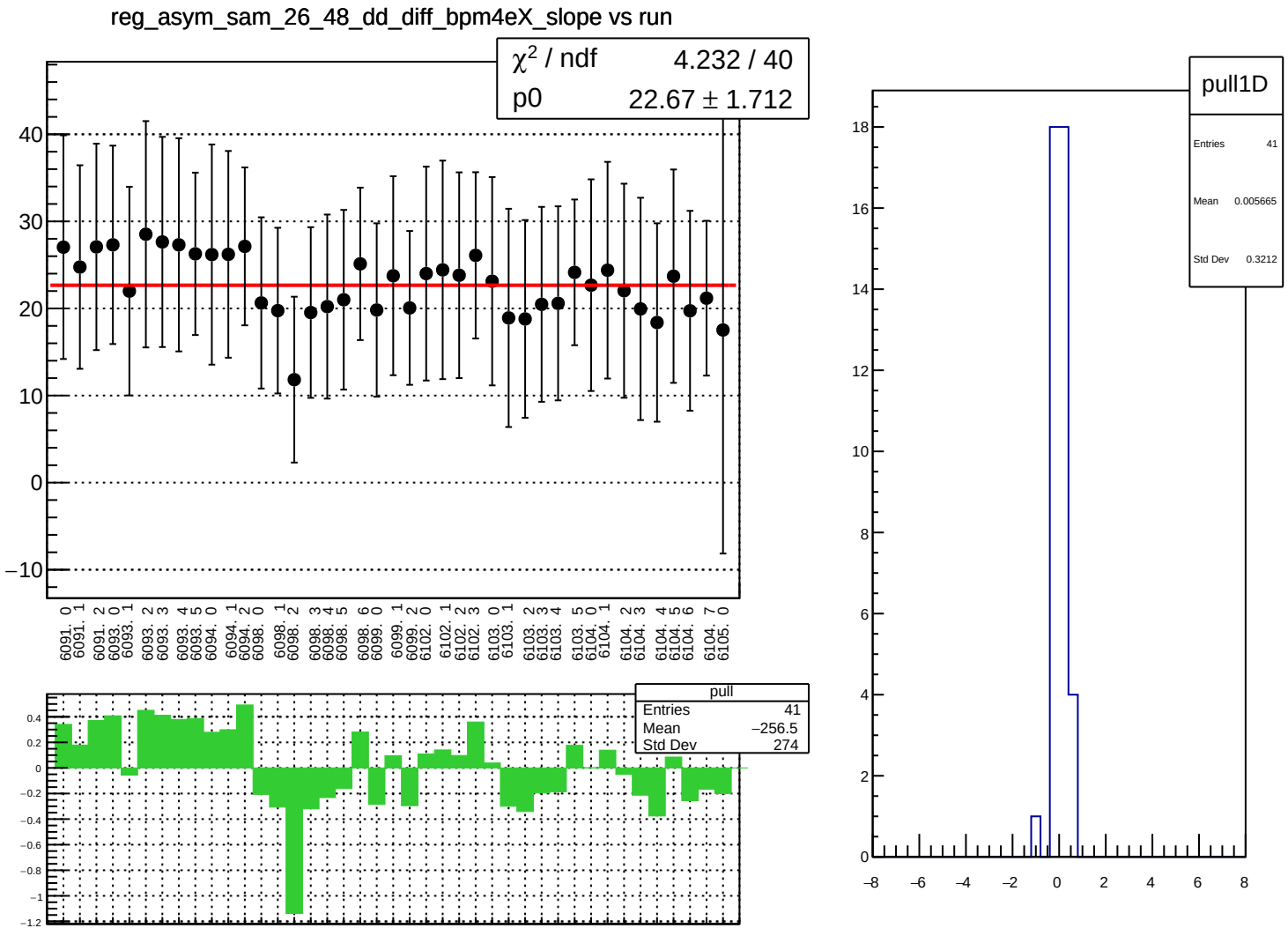

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6442 / 40
p0 −45.33 ± 3.562
pull
Entries 41
Mean 107.8
Std Dev 95.68
pull1D
Entries 41
Mean −0.002664
Std Dev 0.1253

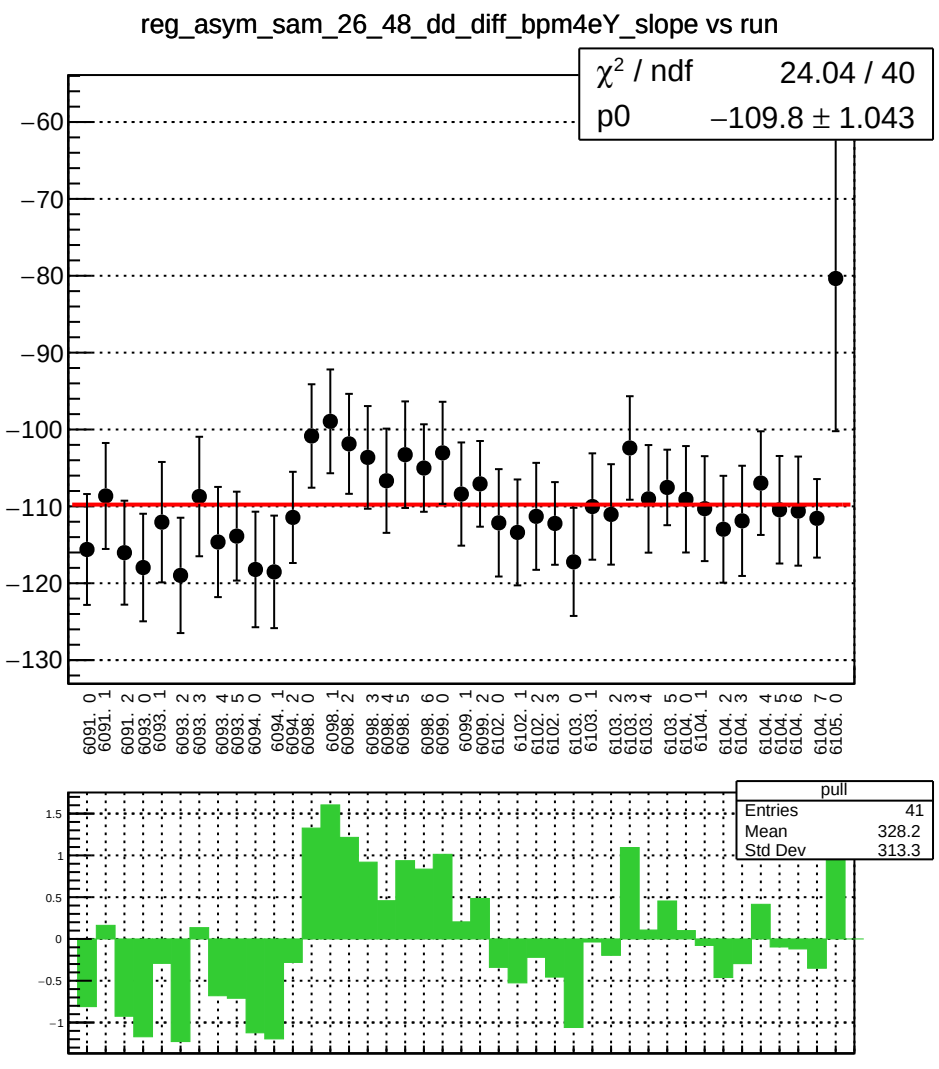

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6859 / 40
p0 −6.595 ± 2.15
pull
Entries 41
Mean 84.61
Std Dev 67.18
pull1D
Entries 41
Mean 0.01054
Std Dev 0.1289

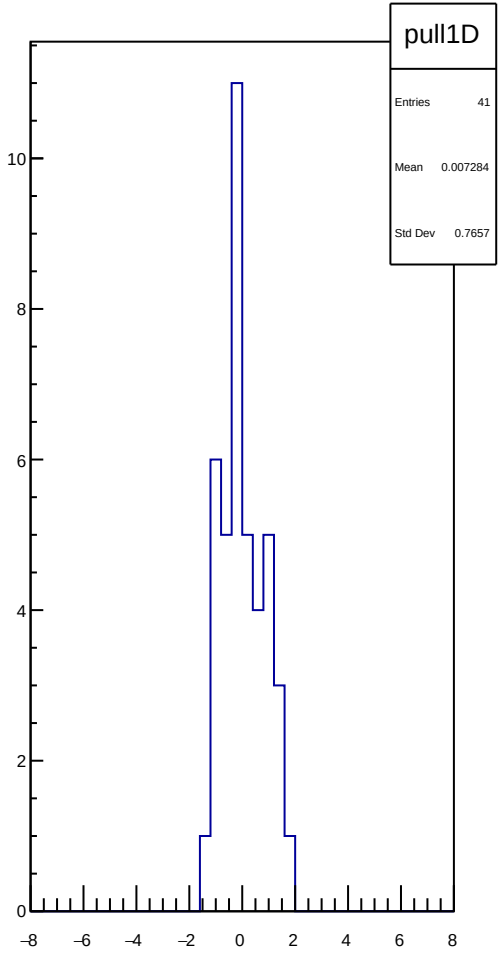

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8423 / 40
p0 −0.8718 ± 0.1509
pull
Entries 41
Mean 20.4
Std Dev 24.94
pull1D
Entries 41
Mean 0.004291
Std Dev 0.1433

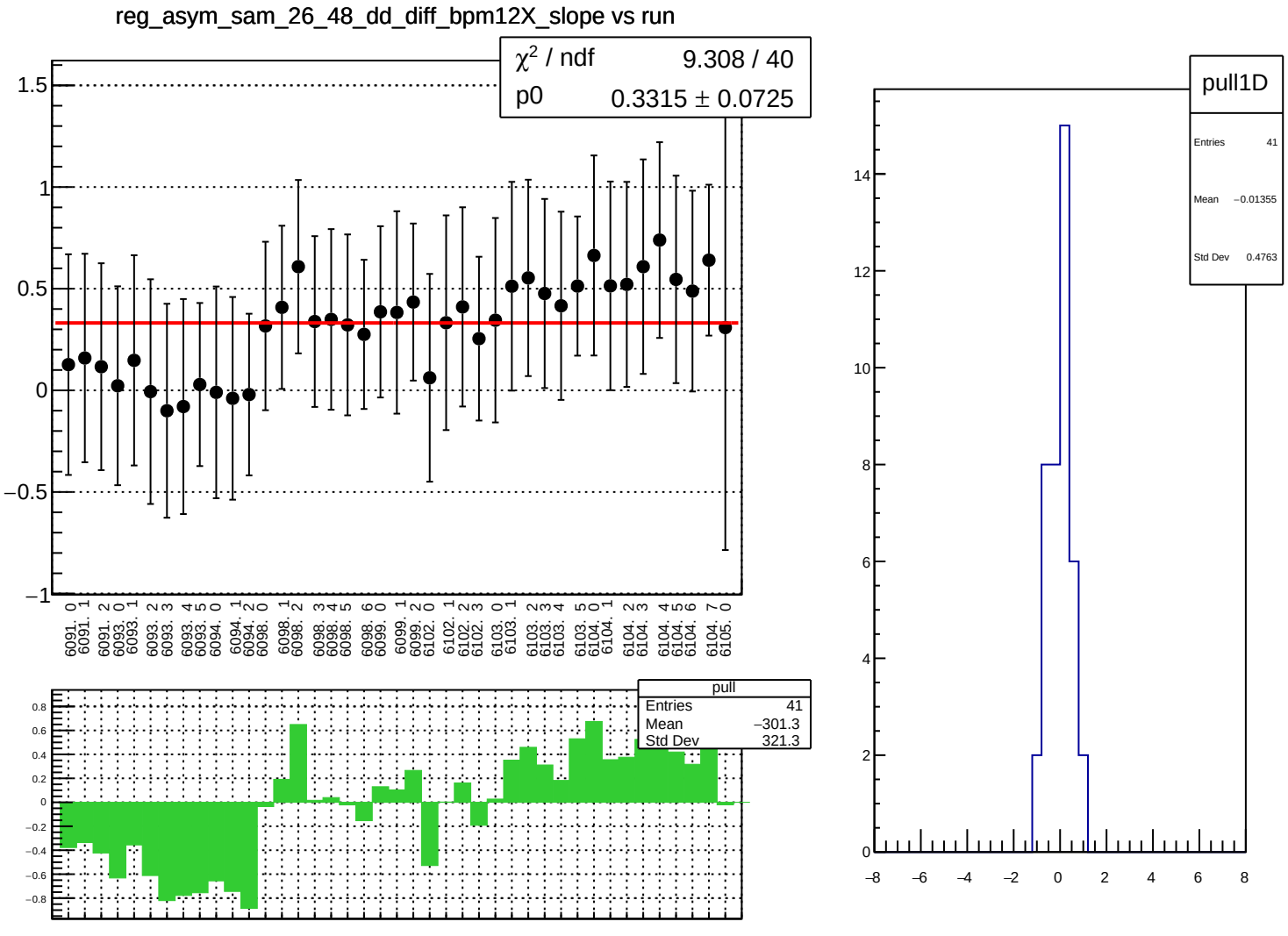

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.076 / 40
p0 −2.126 ± 1.468
20
10
0
−10
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −480.9
Std Dev 500.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean −0.003553
Std Dev 0.3153
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

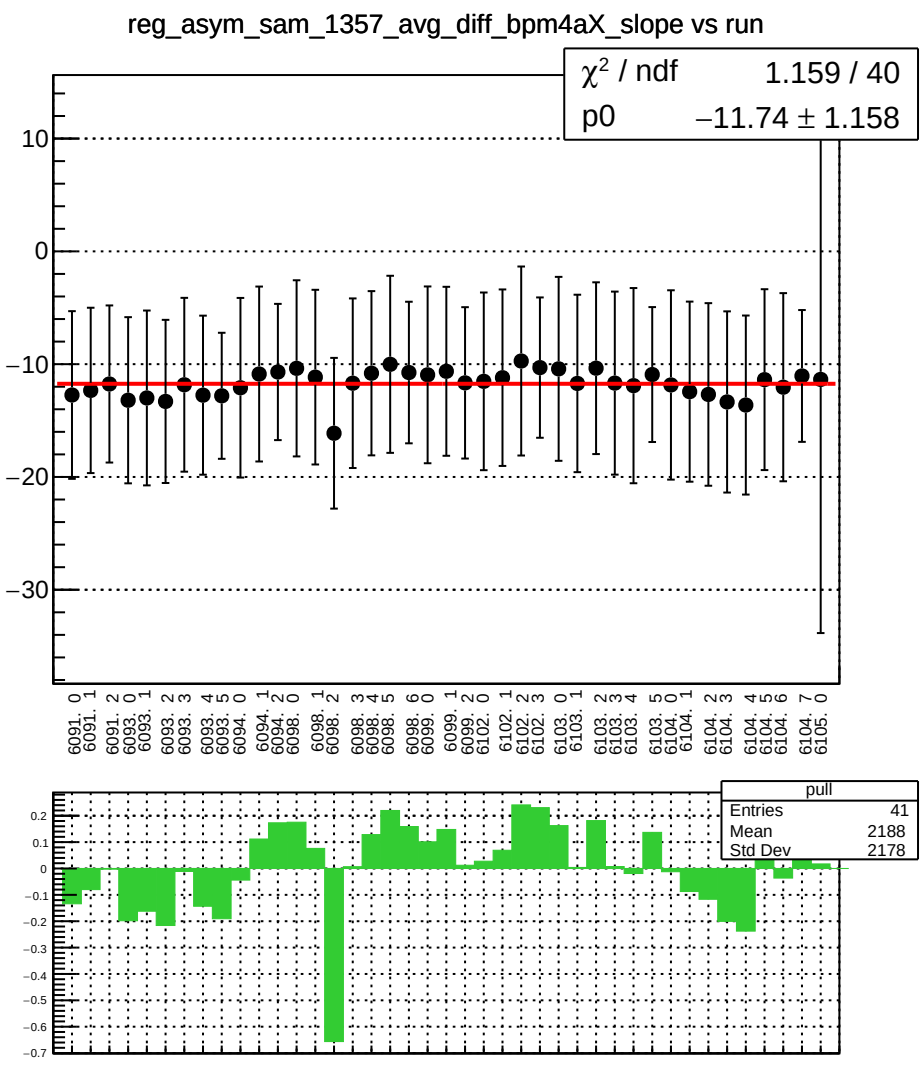

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.58 / 40
p0 13.11 ± 0.9904
pull
Entries 41
Mean 89.28
Std Dev 78.07
pull1D
Entries 41
Mean −0.01524
Std Dev 0.7253

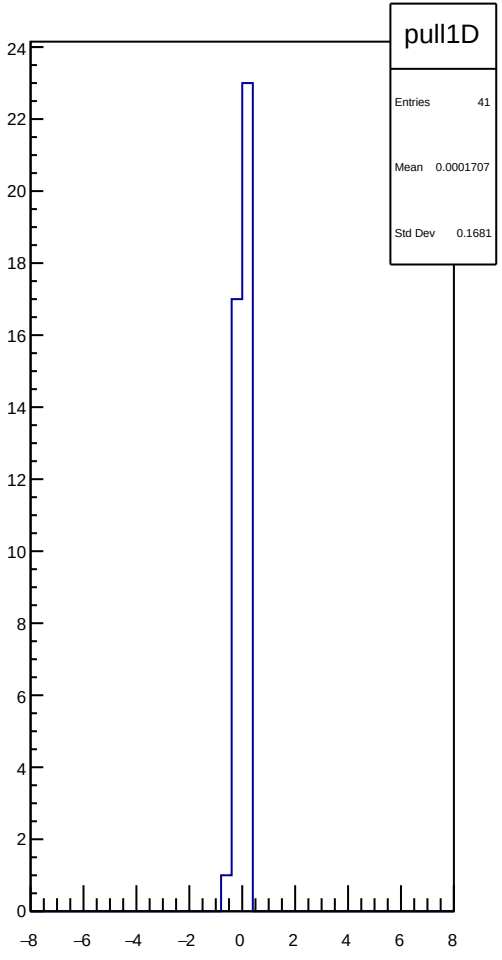

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.232 / 40
p0 22.67 ± 1.712
pull
Entries 41
Mean −256.5
Std Dev 274
pull1D
Entries 41
Mean 0.005665
Std Dev 0.3212

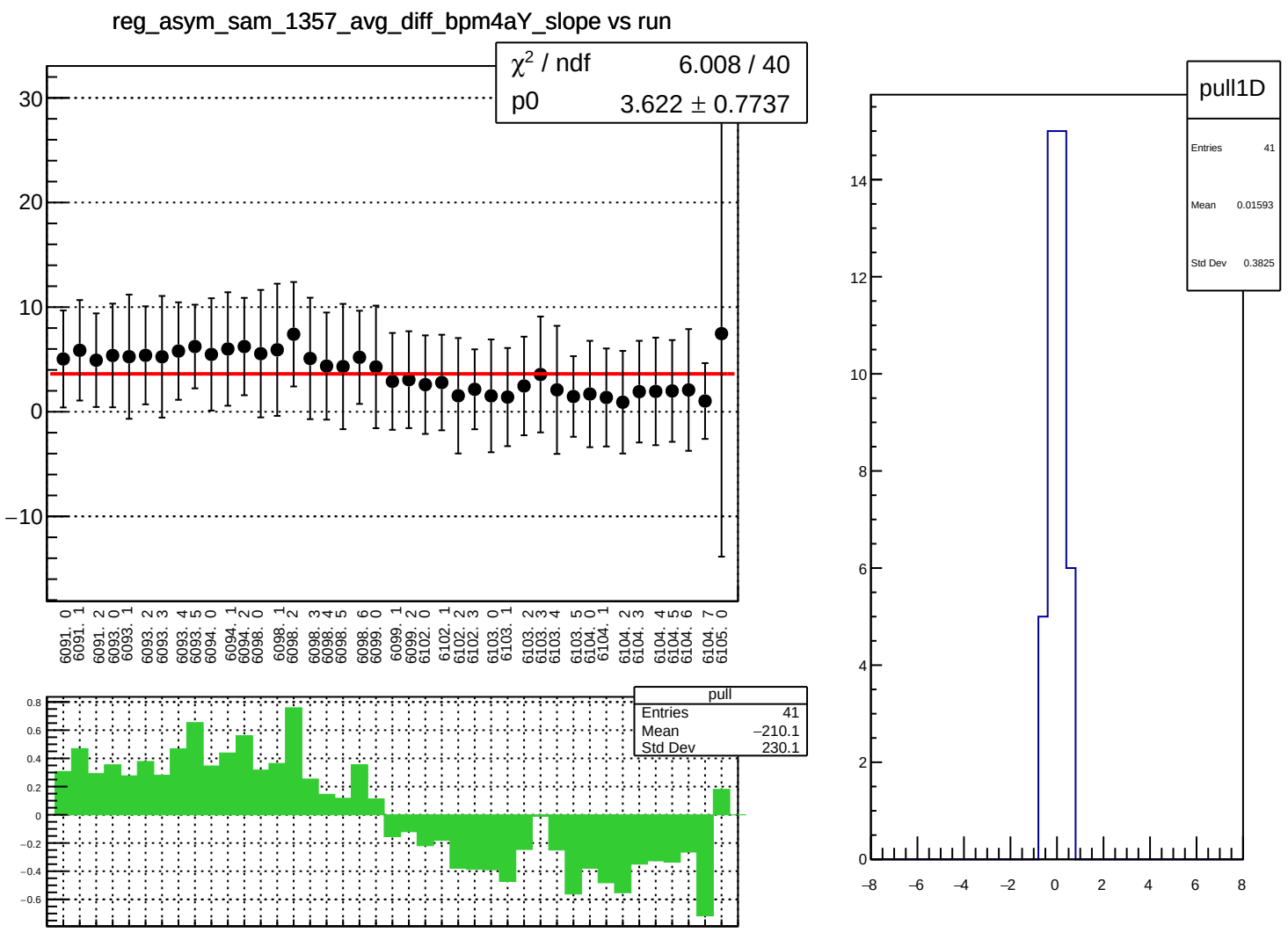

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.04 / 40
p0 −109.8 ± 1.043
pull
Entries 41
Mean 328.2
Std Dev 313.3

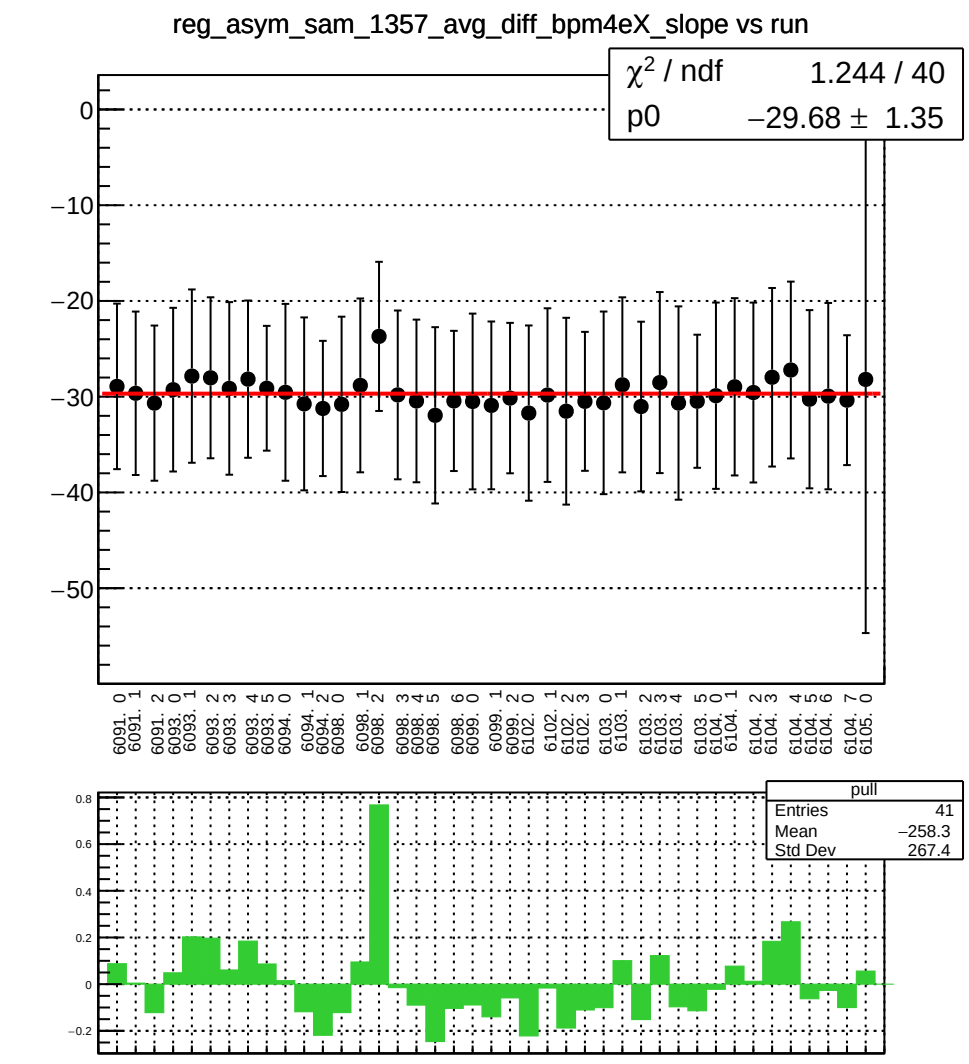

pull1D
Entries 41
Mean 0.007284
Std Dev 0.7657

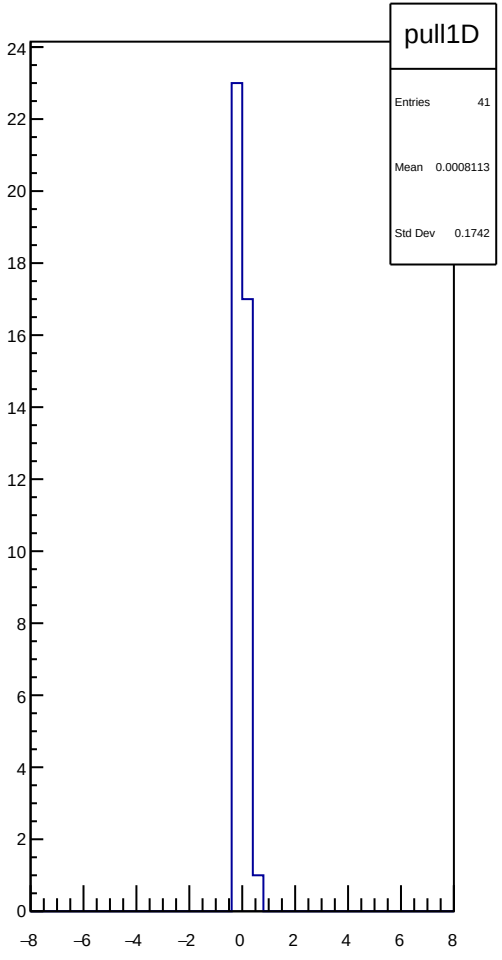

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.308 / 40
p0 0.3315 ± 0.0725
pull
Entries 41
Mean −301.3
Std Dev 321.3
pull1D
Entries 41
Mean −0.01355
Std Dev 0.4763

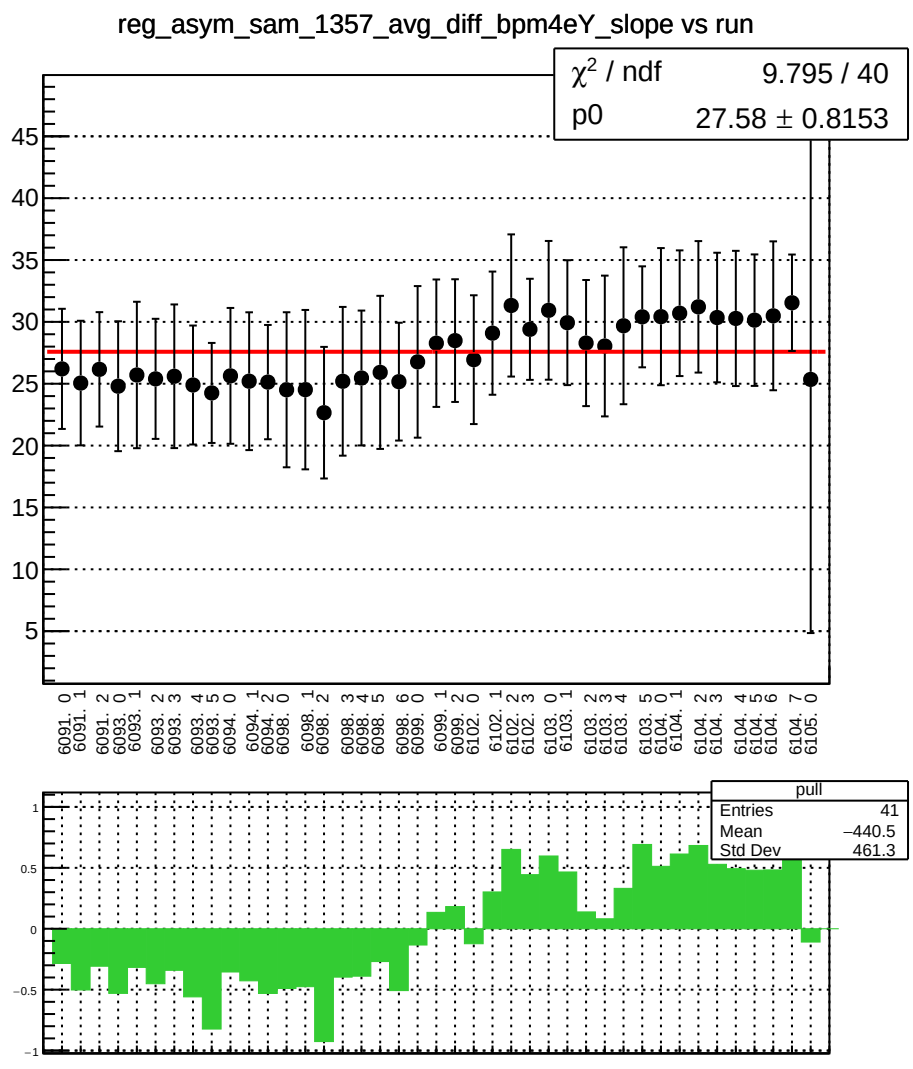

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.159 / 40
p0 −11.74 ± 1.158
10
0
−10
−20
−30
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 2188
Std Dev 2178
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7

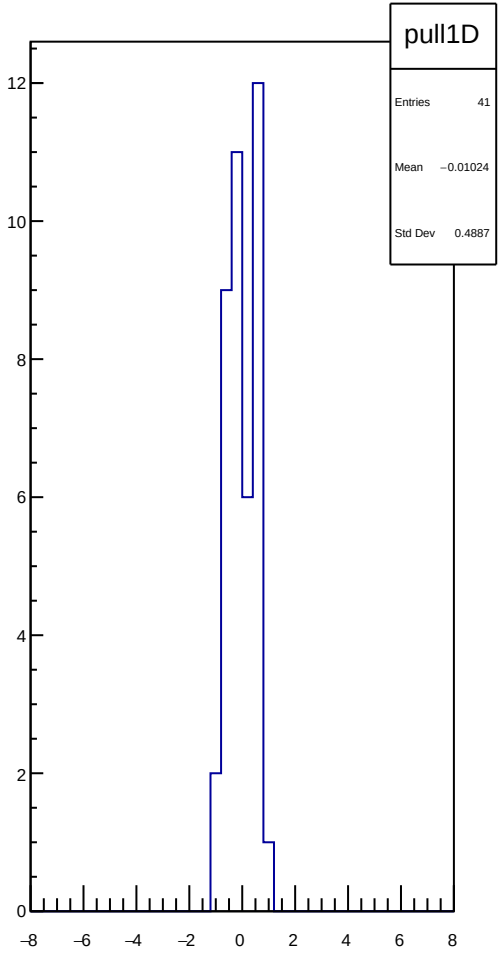

pull1D
Entries 41
Mean 0.0001707
Std Dev 0.1681
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

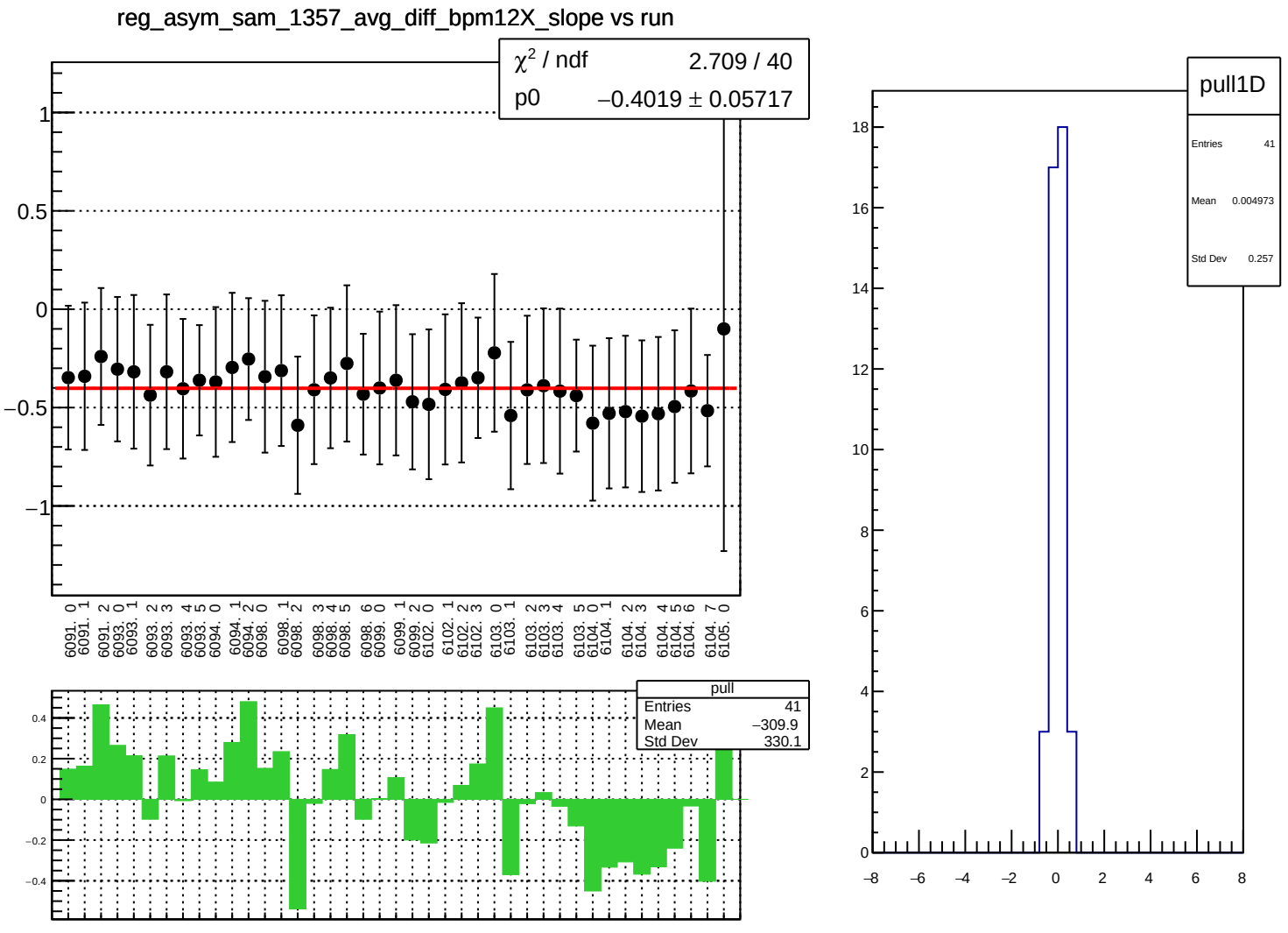

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.008 / 40
p0 3.622 ± 0.7737
pull
Entries 41
Mean −210.1
Std Dev 230.1
pull1D
Entries 41
Mean 0.01593
Std Dev 0.3825

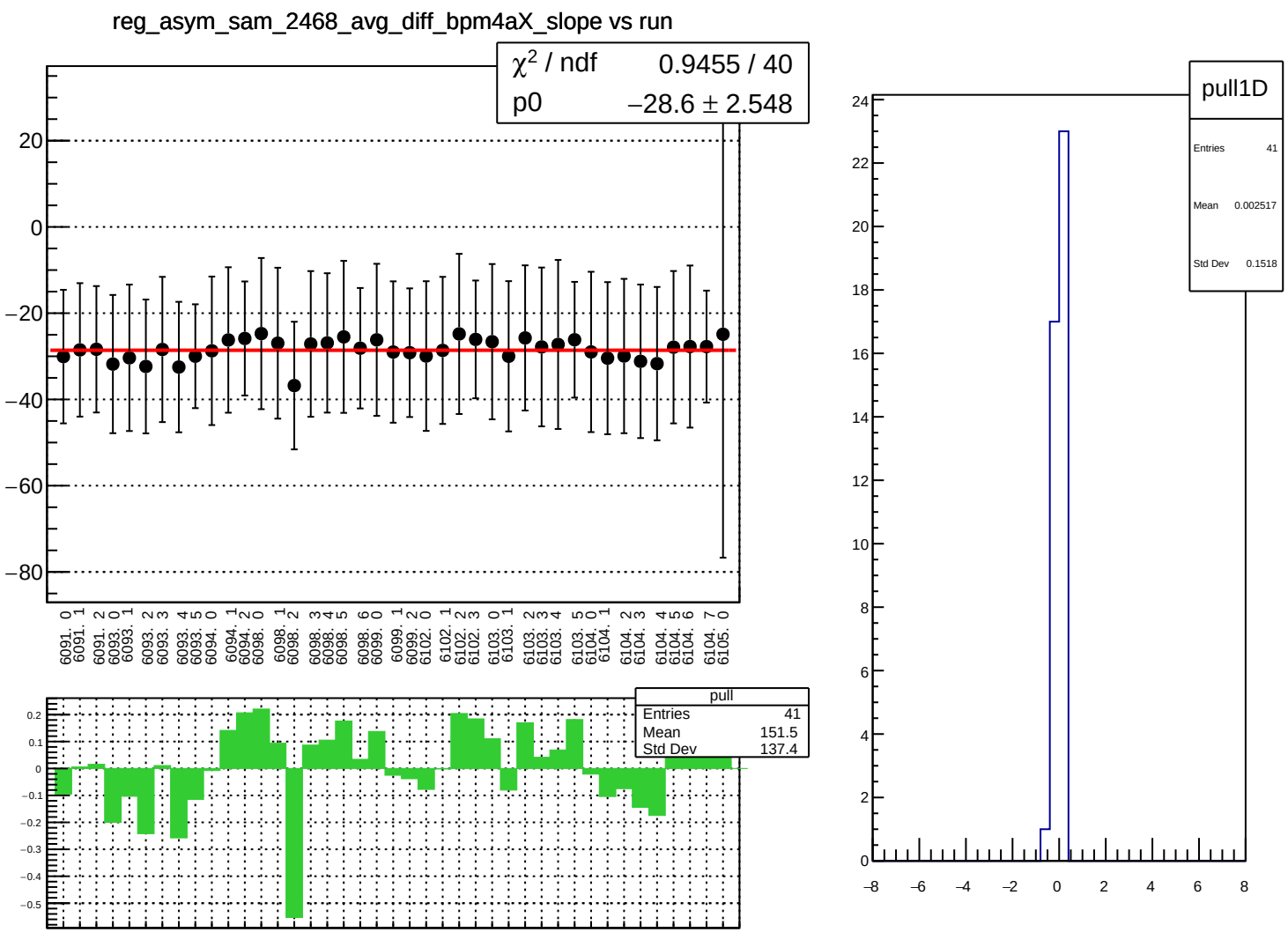

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.244 / 40
p0 −29.68 ± 1.35
pull
Entries 41
Mean −258.3
Std Dev 267.4

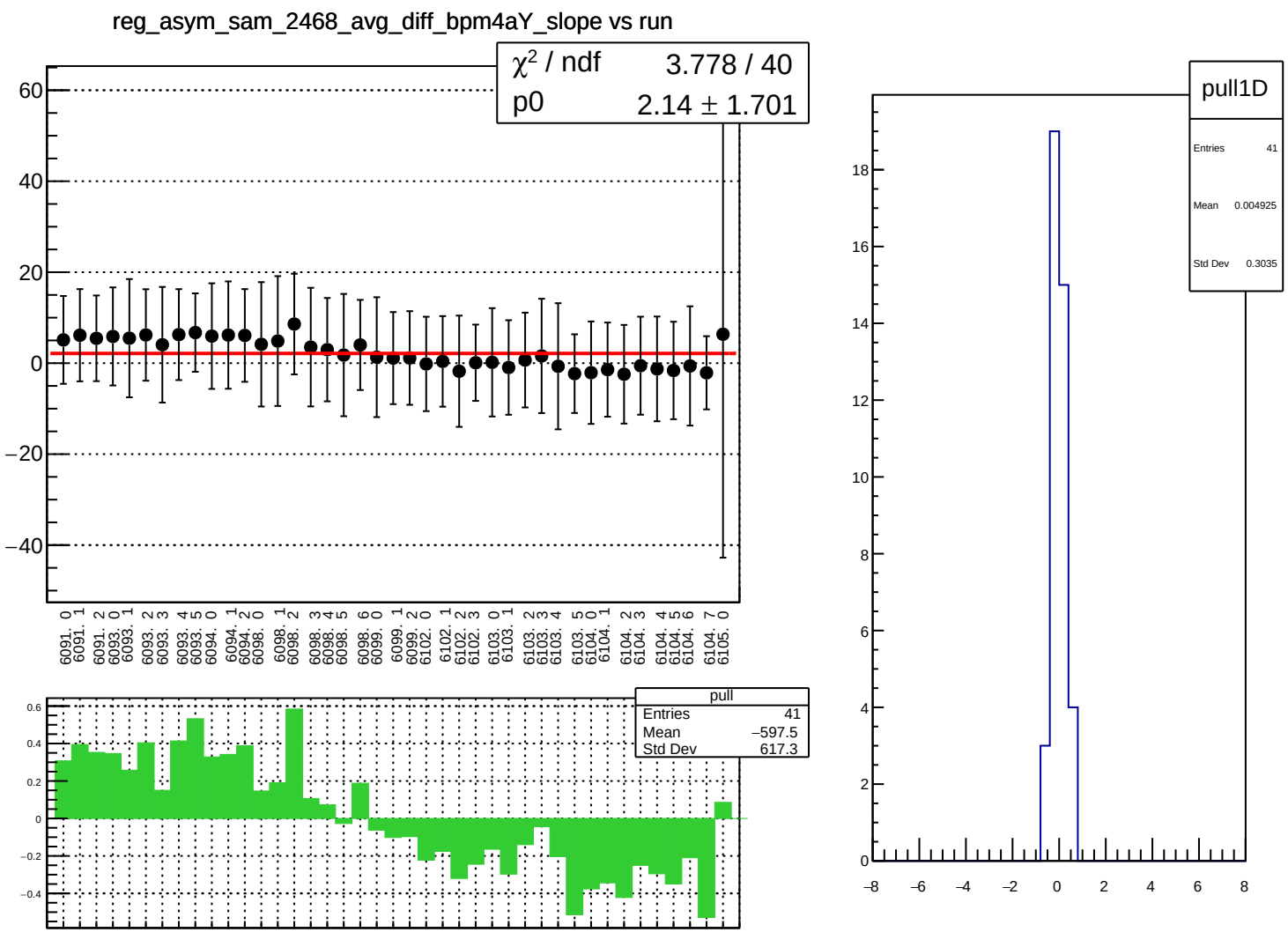

pull1D
Entries 41
Mean 0.0008113
Std Dev 0.1742

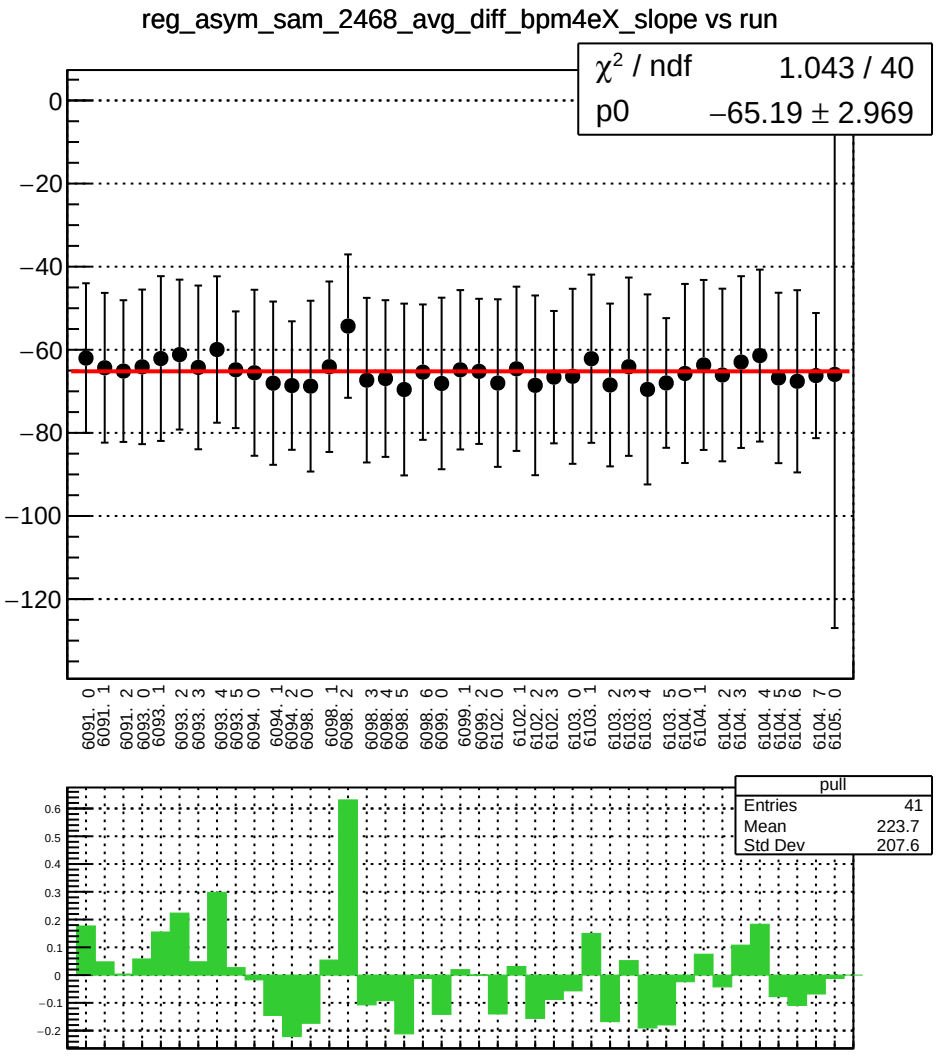

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.795 / 40
p0 27.58 ± 0.8153
pull
Entries 41
Mean −440.5
Std Dev 461.3

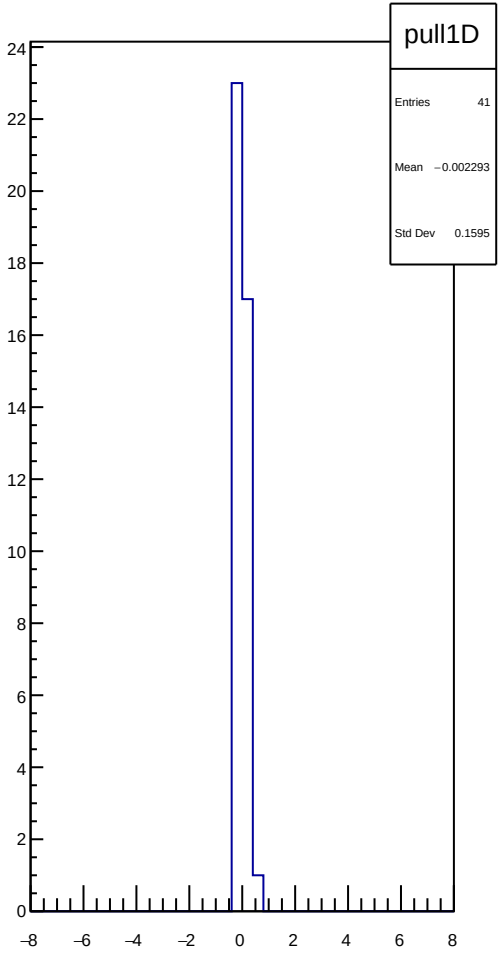

pull1D
Entries 41
Mean −0.01024
Std Dev 0.4887

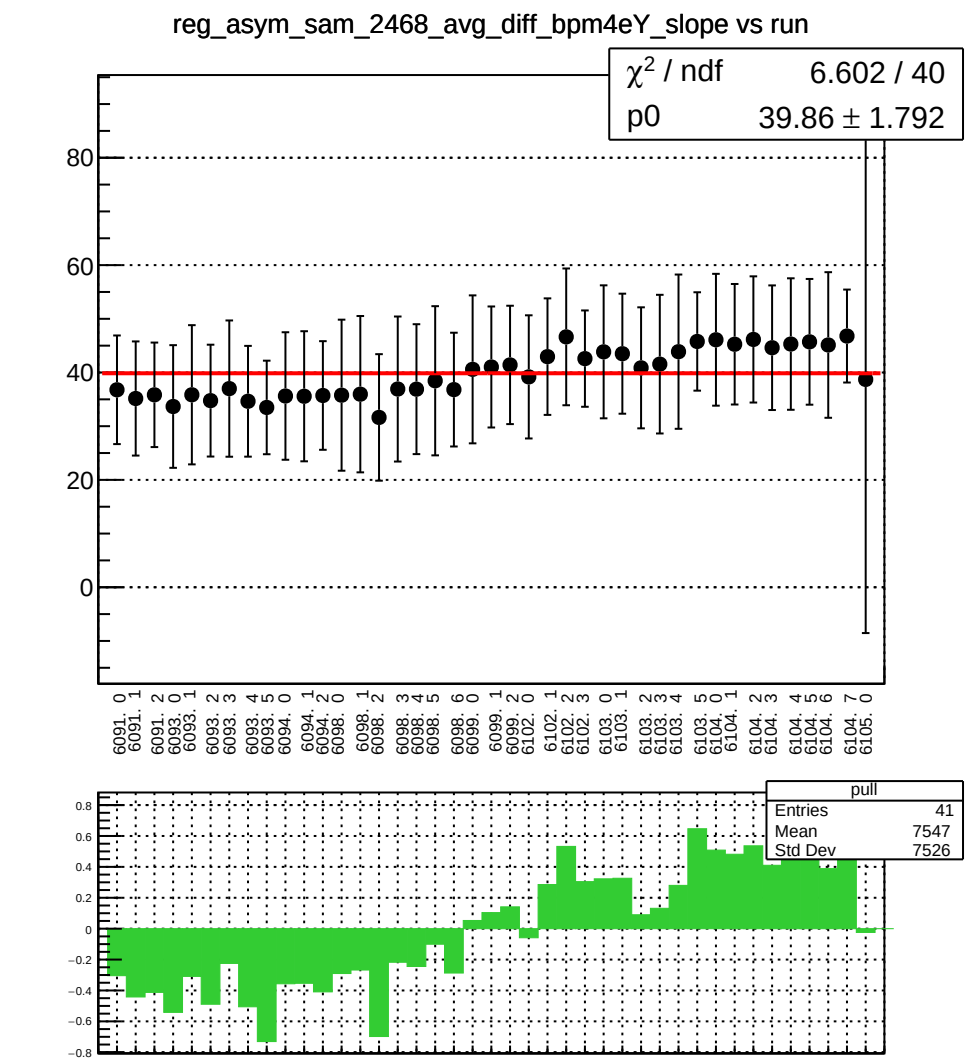

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.709 / 40
p0 −0.4019 ± 0.05717
pull
Entries 41
Mean −309.9
Std Dev 330.1
pull1D
Entries 41
Mean 0.004973
Std Dev 0.257

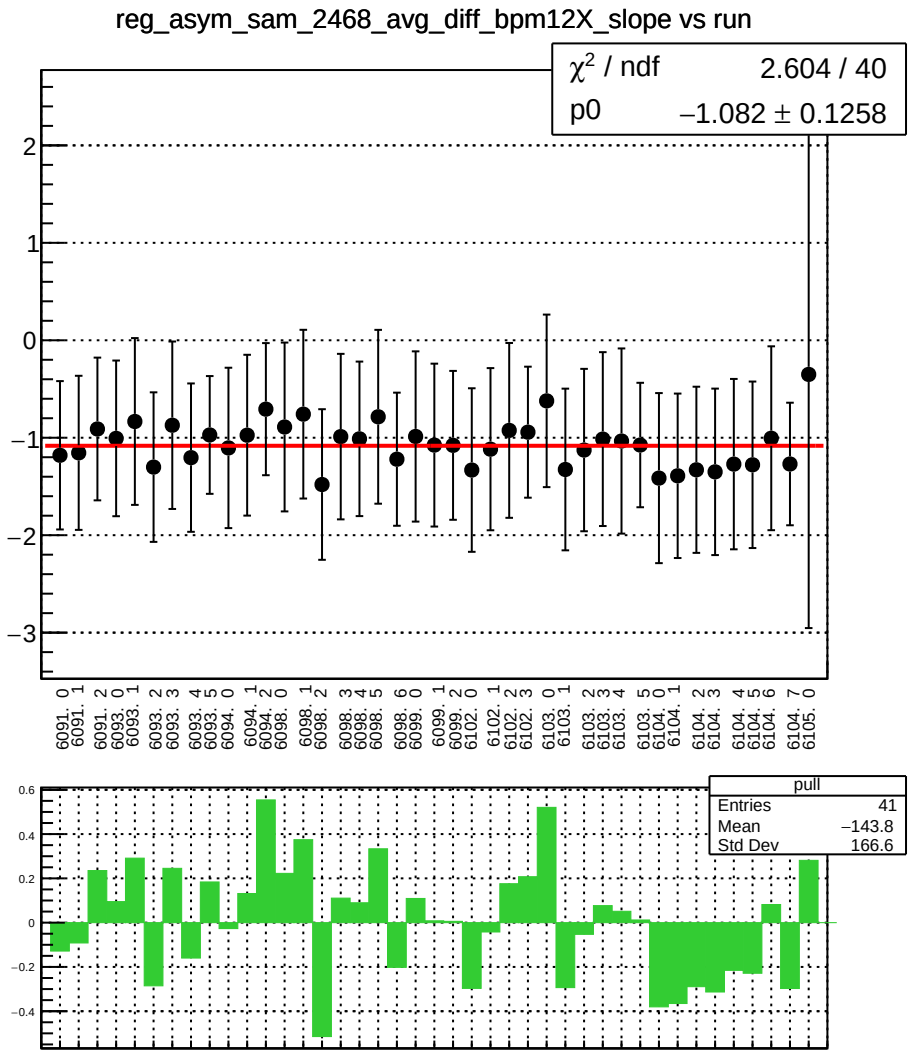

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.9455 / 40
p0 −28.6 ± 2.548
pull
Entries 41
Mean 151.5
Std Dev 137.4
pull1D
Entries 41
Mean 0.002517
Std Dev 0.1518

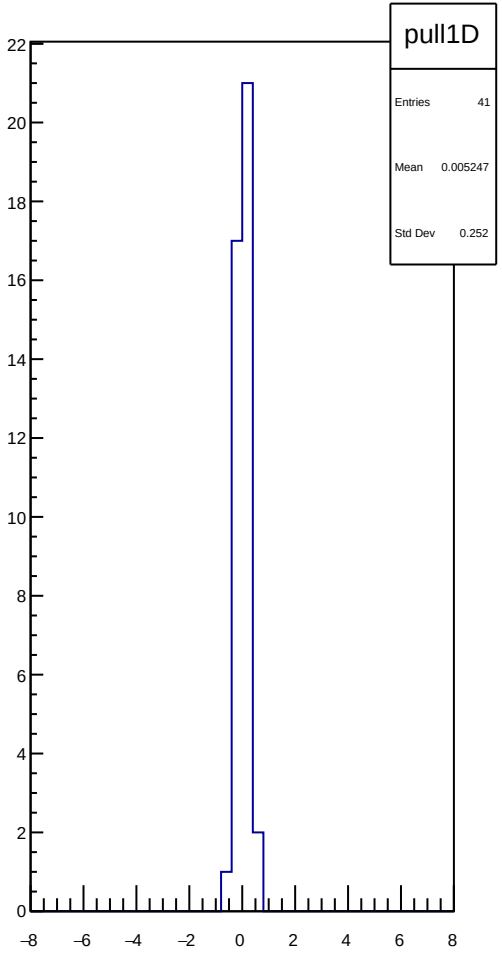

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.778 / 40
p0 2.14 ± 1.701
pull
Entries 41
Mean −597.5
Std Dev 617.3
pull1D
Entries 41
Mean 0.004925
Std Dev 0.3035

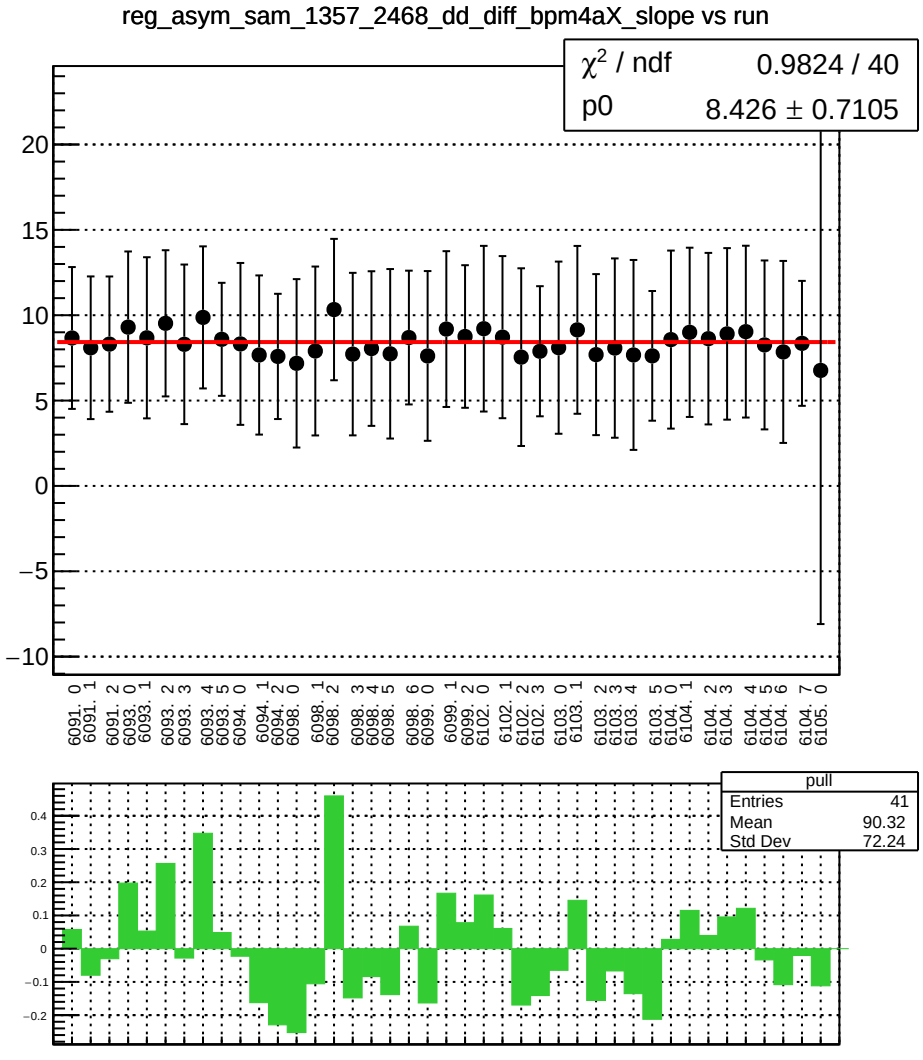

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.043 / 40
p0 −65.19 ± 2.969
pull
Entries 41
Mean 223.7
Std Dev 207.6

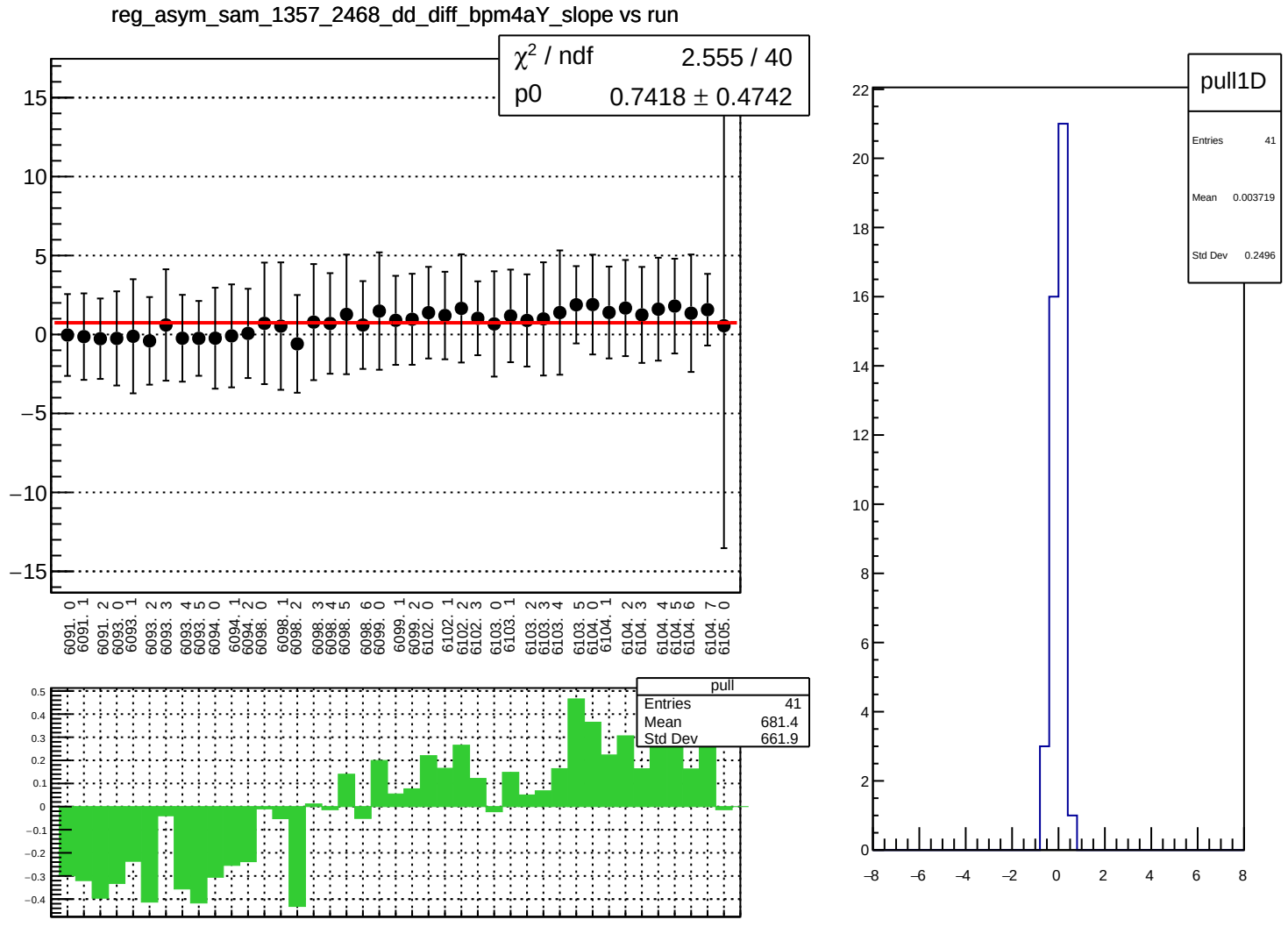

pull1D
Entries 41
Mean −0.002293
Std Dev 0.1595

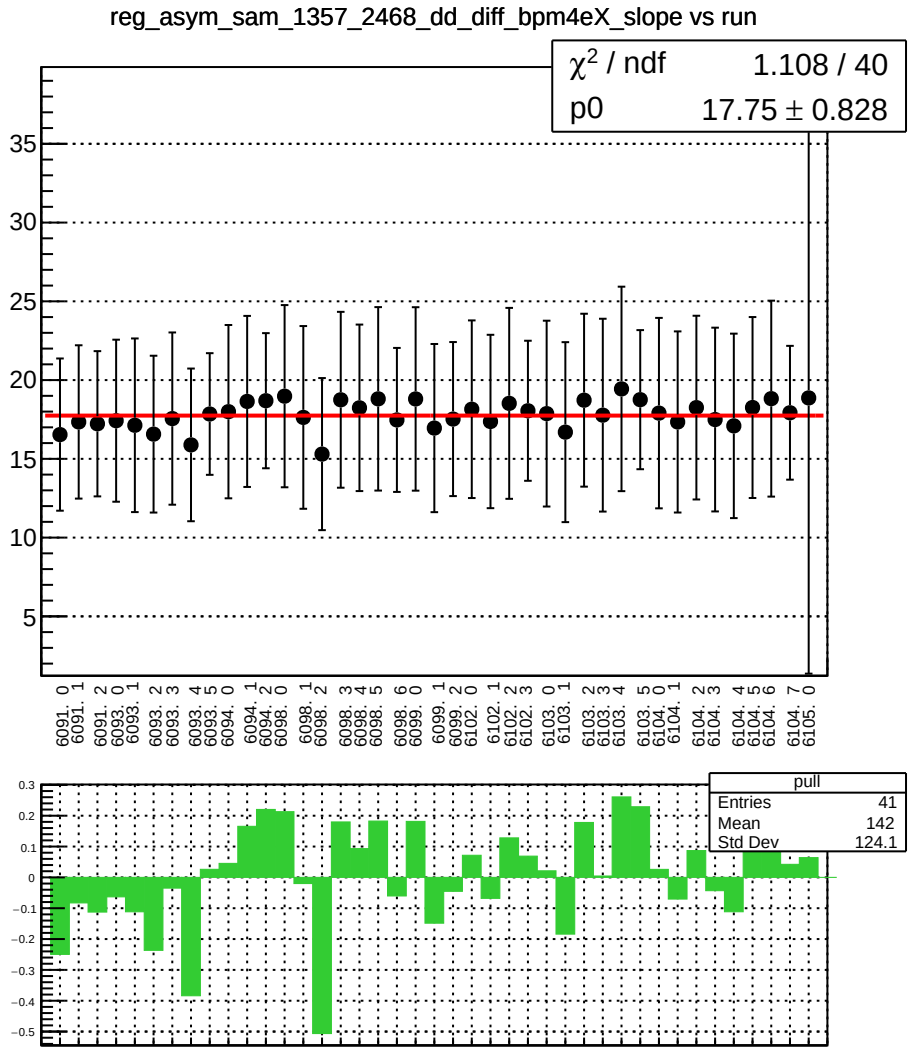

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.602 / 40
p0 39.86 ± 1.792
80
60
40
20
0
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 7547
Std Dev 7526
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.0005452
Std Dev 0.4013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

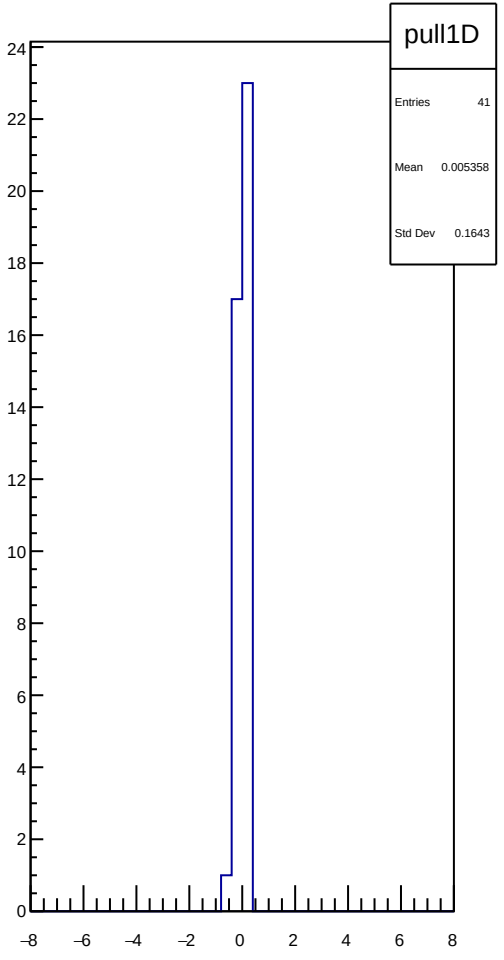

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.604 / 40
p0 −1.082 ± 0.1258
pull
Entries 41
Mean −143.8
Std Dev 166.6

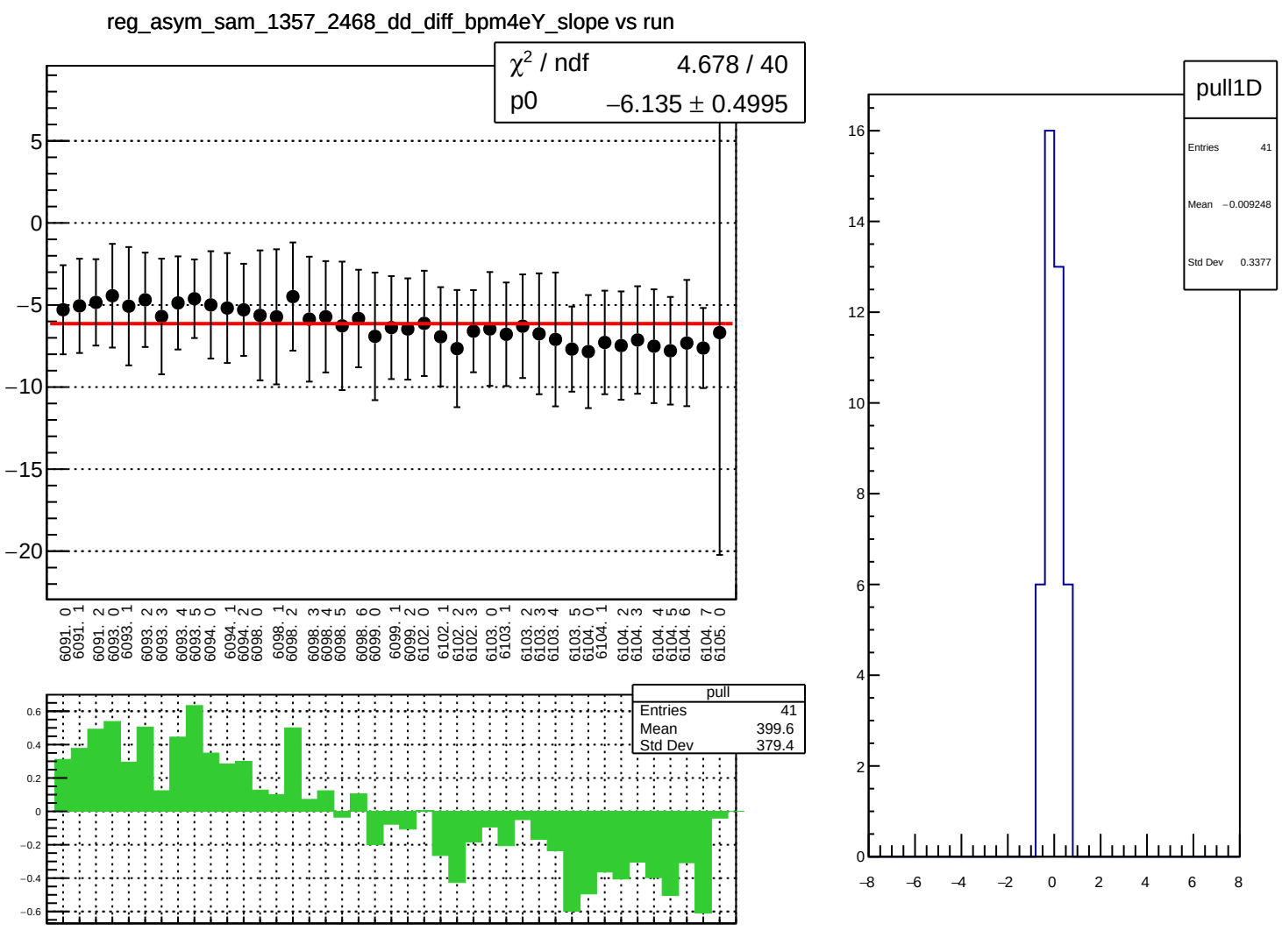

pull1D
Entries 41
Mean 0.005247
Std Dev 0.252

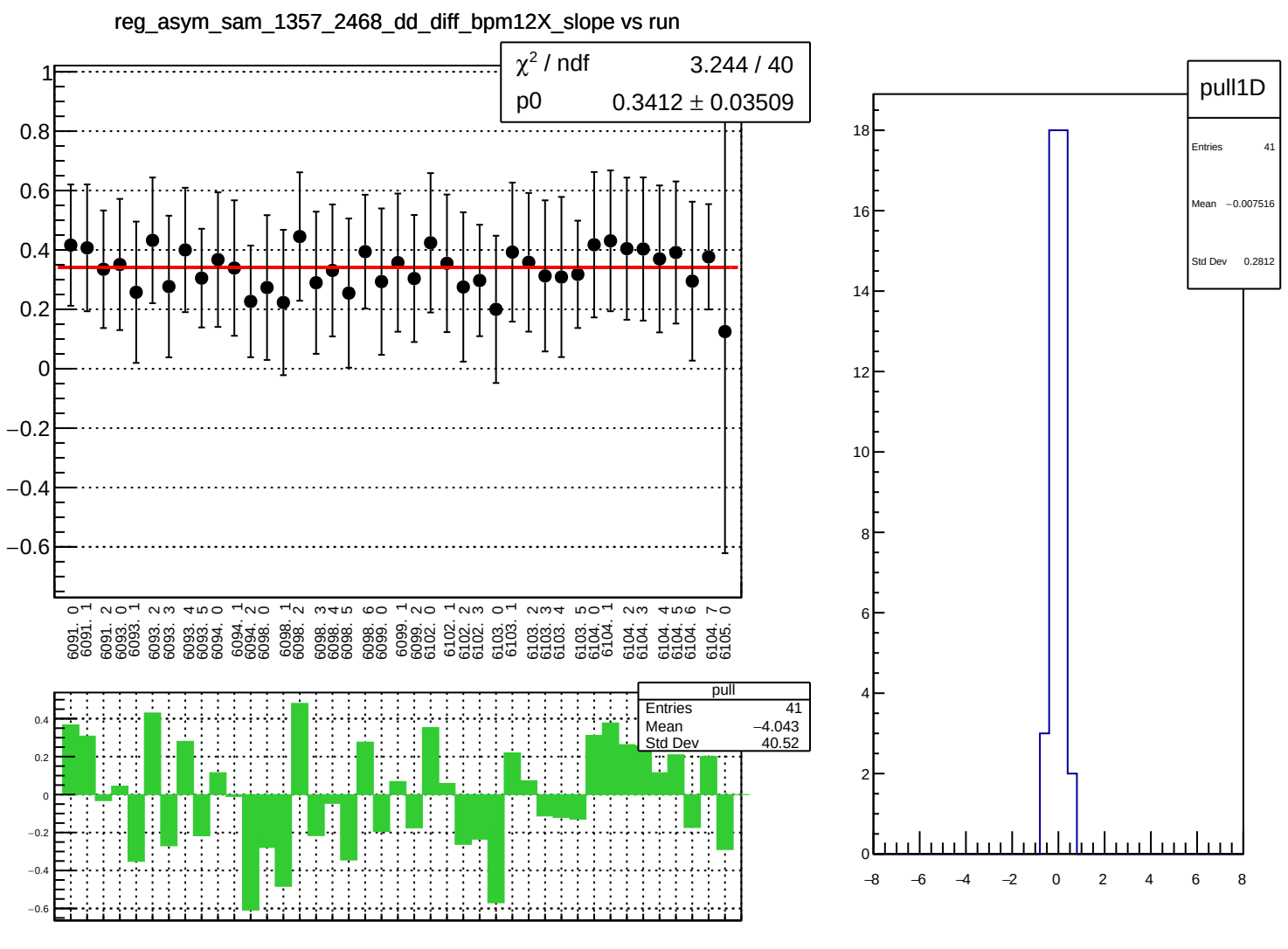

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.9824 / 40
p0 8.426 ± 0.7105
pull
Entries 41
Mean 90.32
Std Dev 72.24
pull1D
Entries 41
Mean −0.004014
Std Dev 0.1547

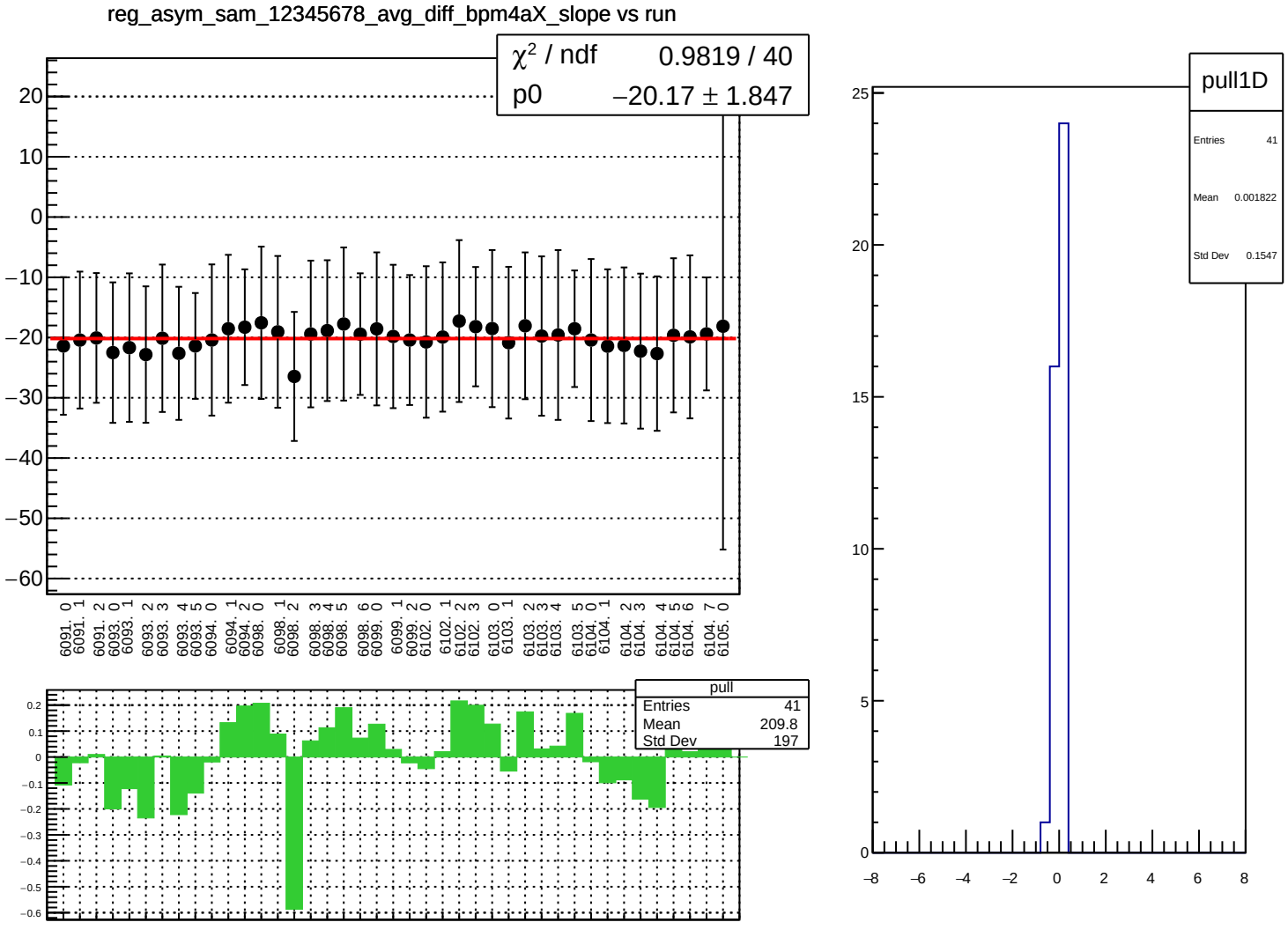

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.555 / 40
p0 0.7418 ± 0.4742
15
10
5
0
−5
−10
−15
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 681.4
Std Dev 661.9
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 41
Mean 0.003719
Std Dev 0.2496
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

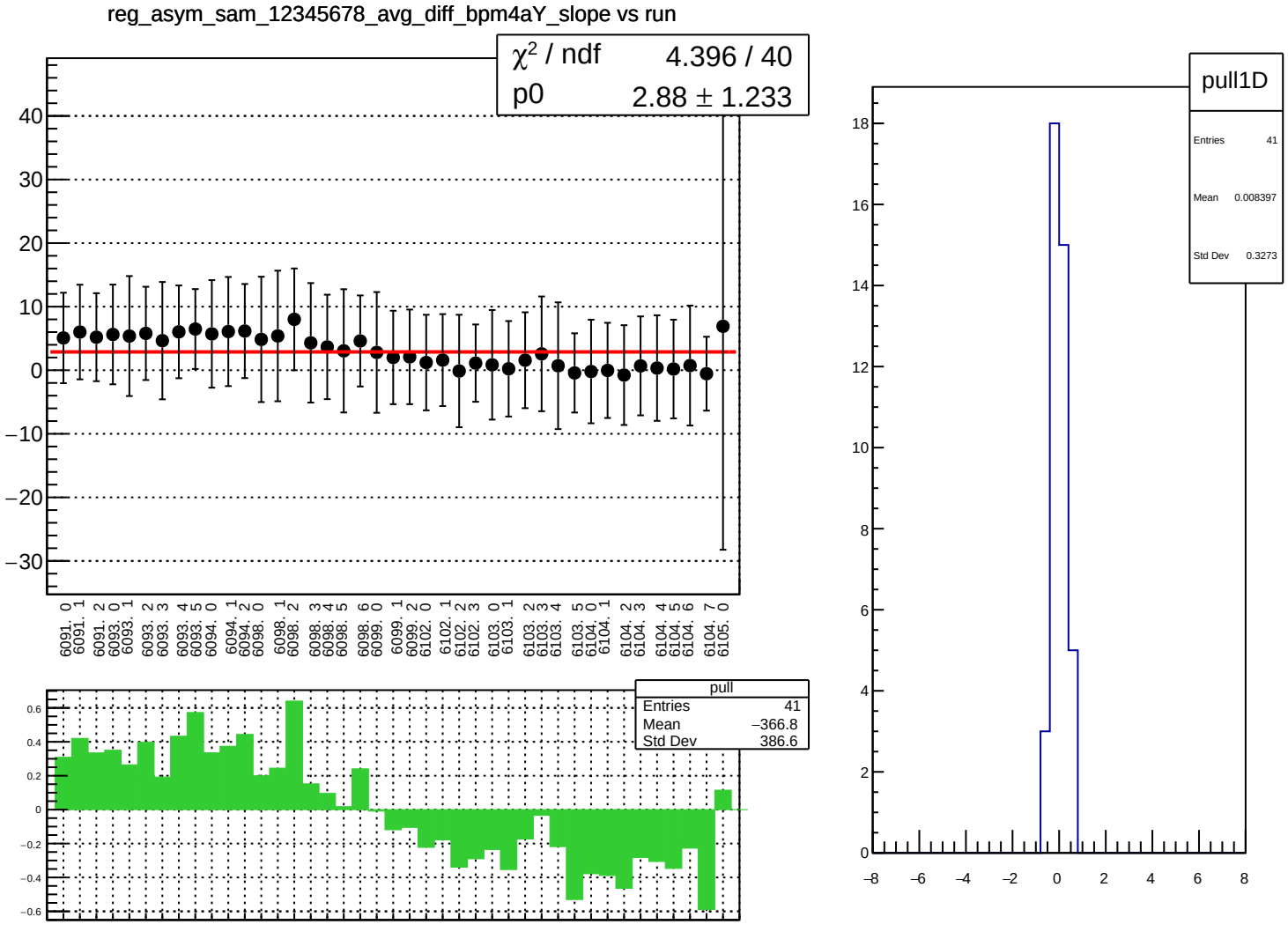

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.108 / 40
p0 17.75 ± 0.828
pull
Entries 41
Mean 142
Std Dev 124.1

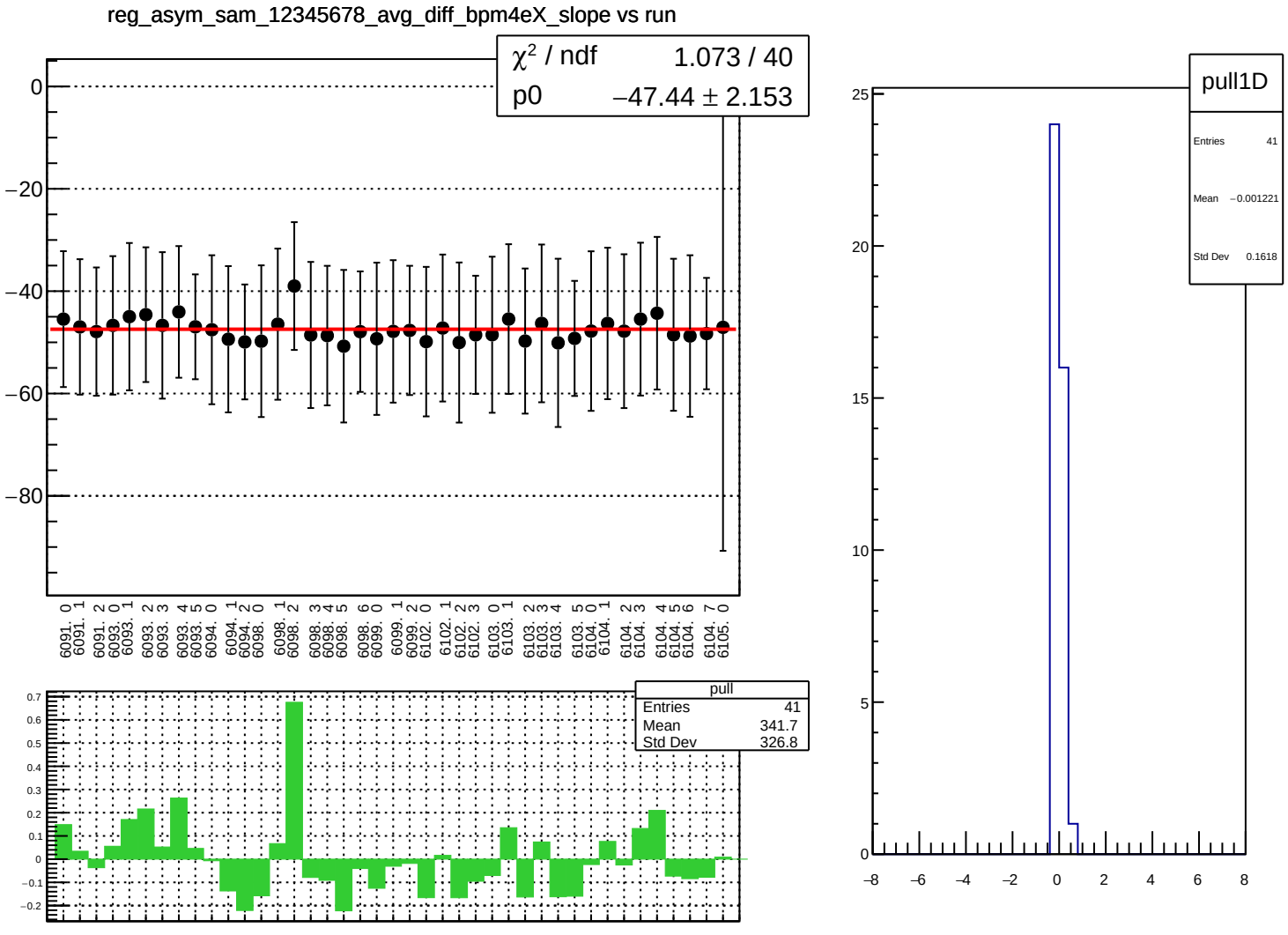

pull1D
Entries 41
Mean 0.005358
Std Dev 0.1643

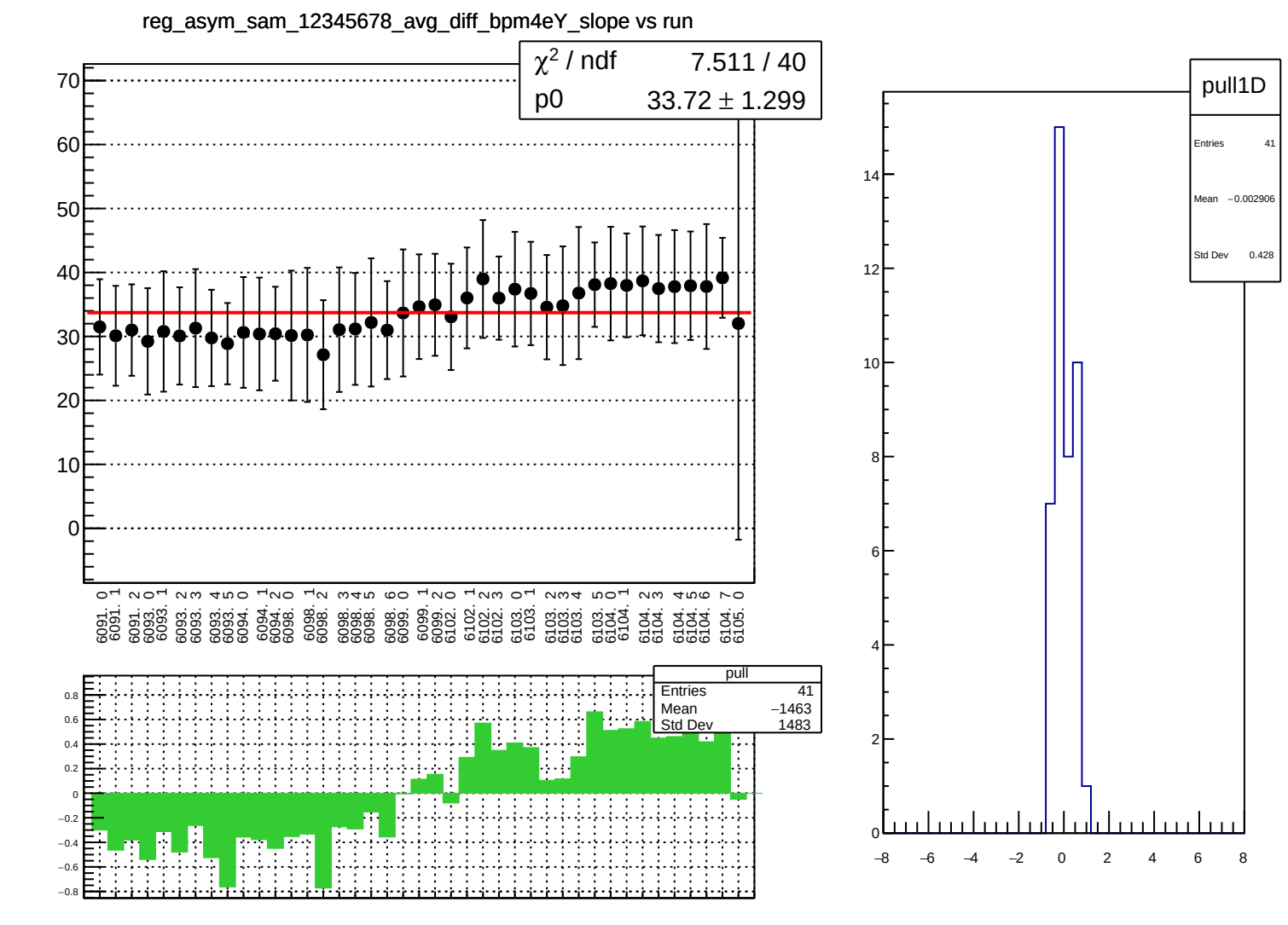

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.678 / 40
p0 −6.135 ± 0.4995
5
0
−5
−10
−15
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 399.6
Std Dev 379.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.009248
Std Dev 0.3377
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

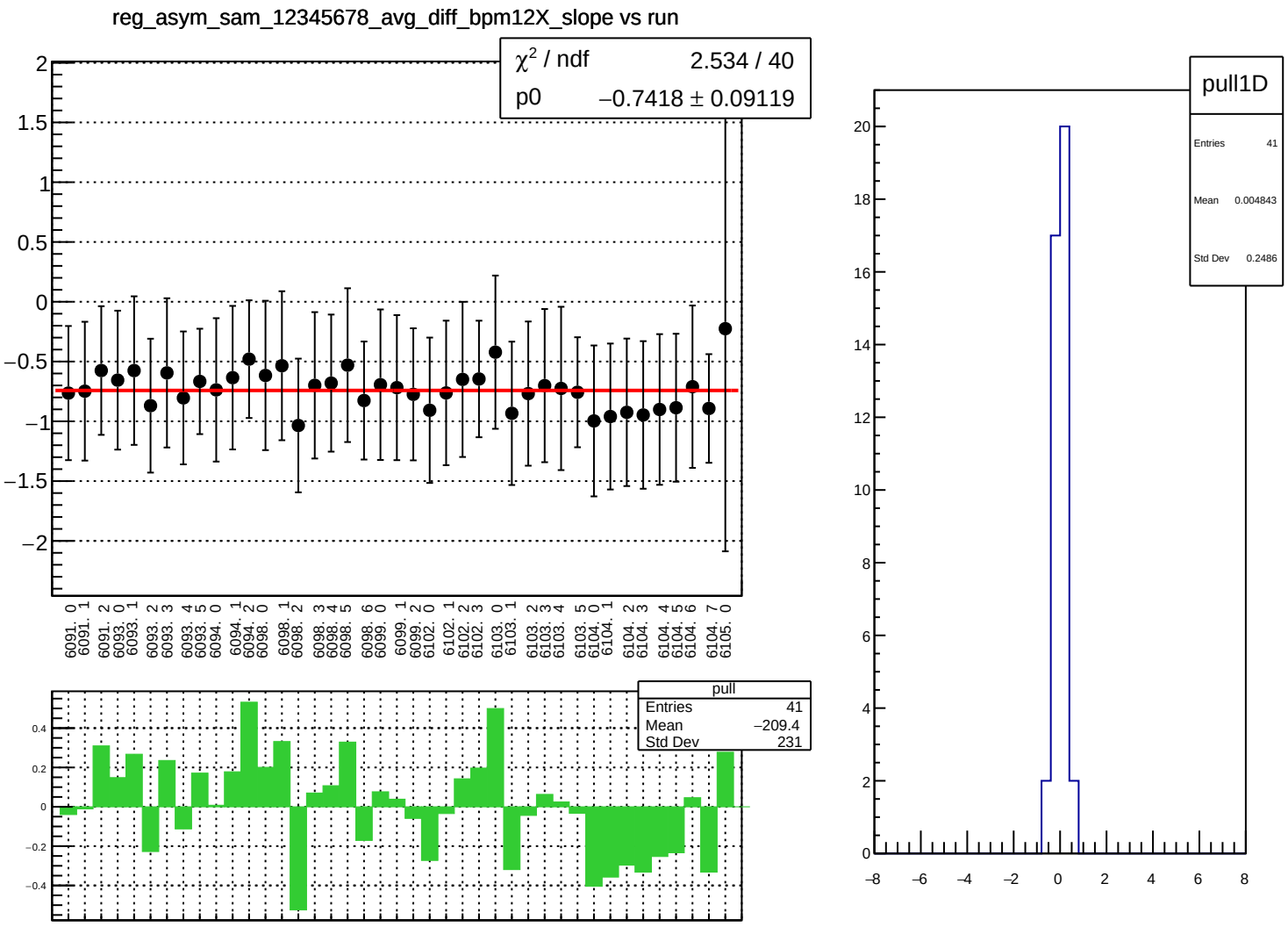

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.244 / 40
p0 0.3412 ± 0.03509
pull
Entries 41
Mean −4.043
Std Dev 40.52
pull1D
Entries 41
Mean −0.007516
Std Dev 0.2812

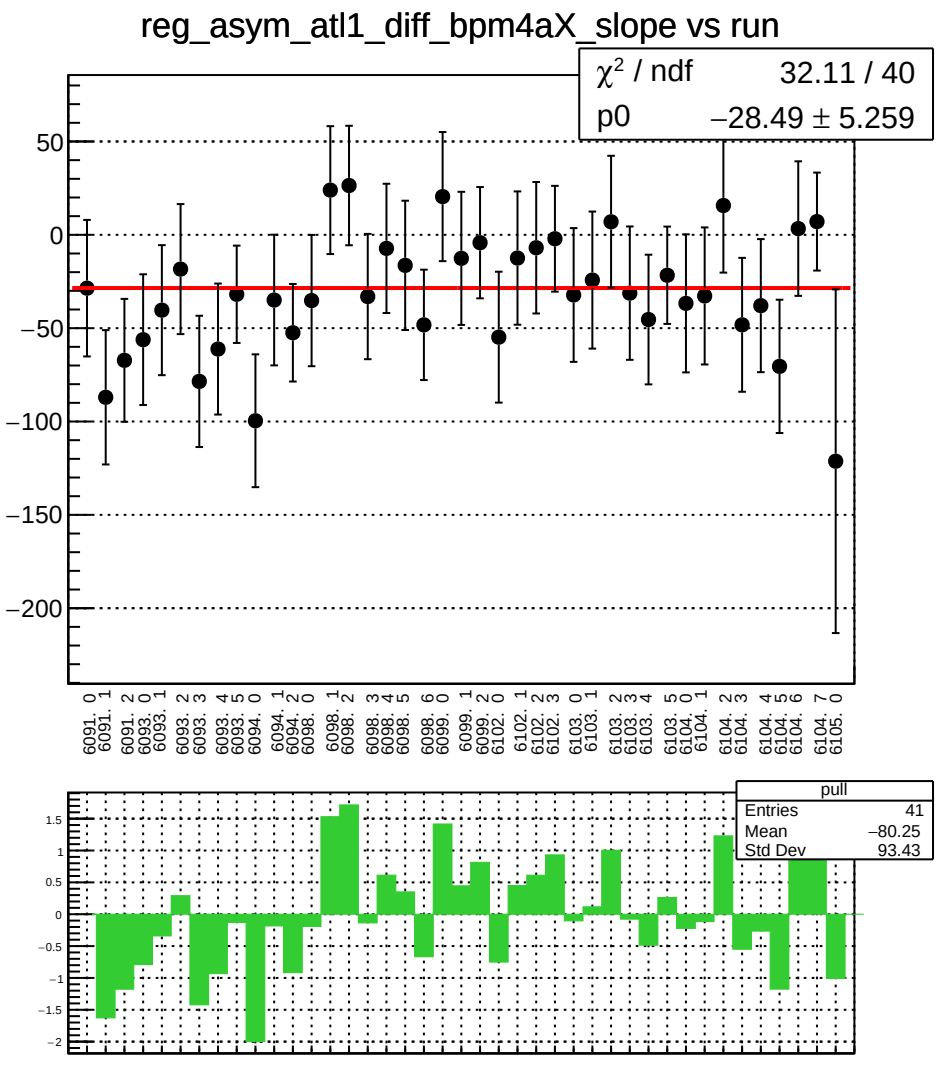

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.9819 / 40
p0 −20.17 ± 1.847
pull
Entries 41
Mean 209.8
Std Dev 197
pull1D
Entries 41
Mean 0.001822
Std Dev 0.1547

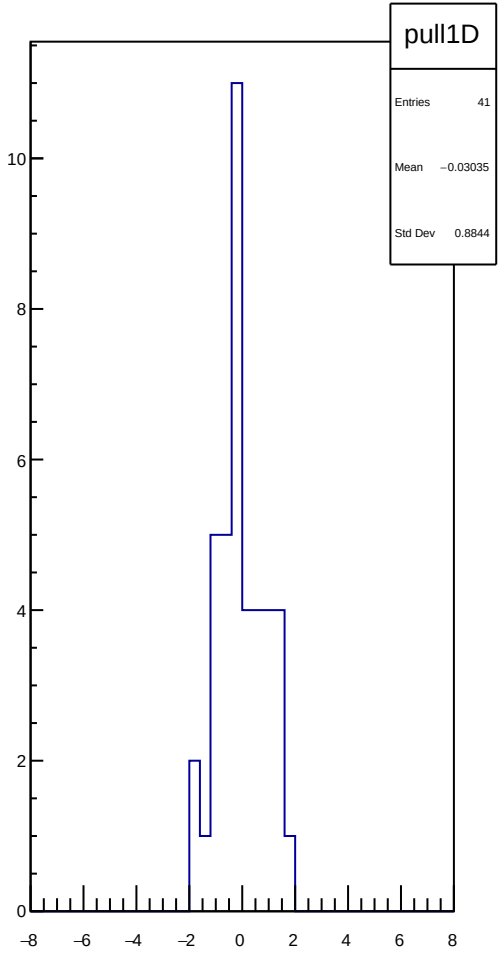

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.396 / 40
p0 2.88 ± 1.233
40
30
20
10
0
−10
−20
−30
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −366.8
Std Dev 386.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.008397
Std Dev 0.3273
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

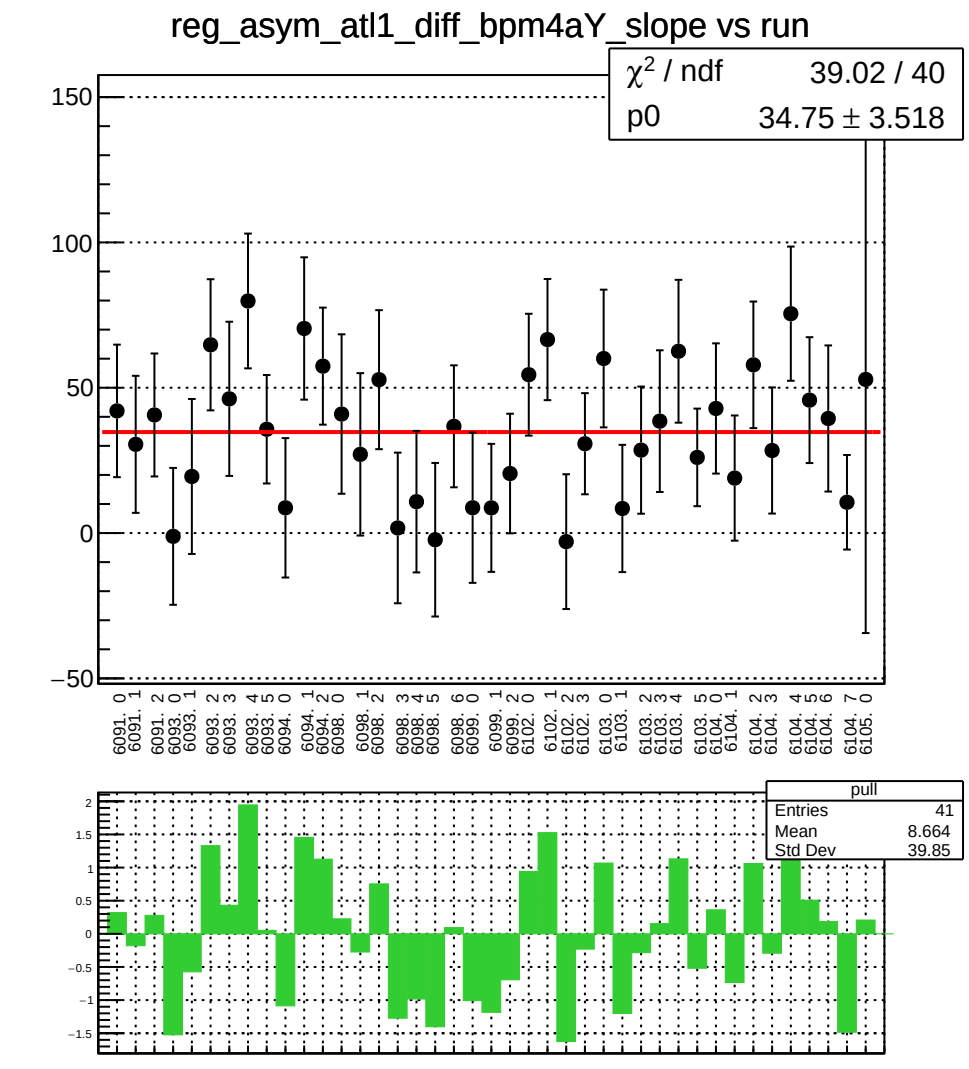

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.073 / 40
p0 −47.44 ± 2.153
0
−20
−40
−60
−80
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 341.7
Std Dev 326.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 41
Mean −0.001221
Std Dev 0.1618
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

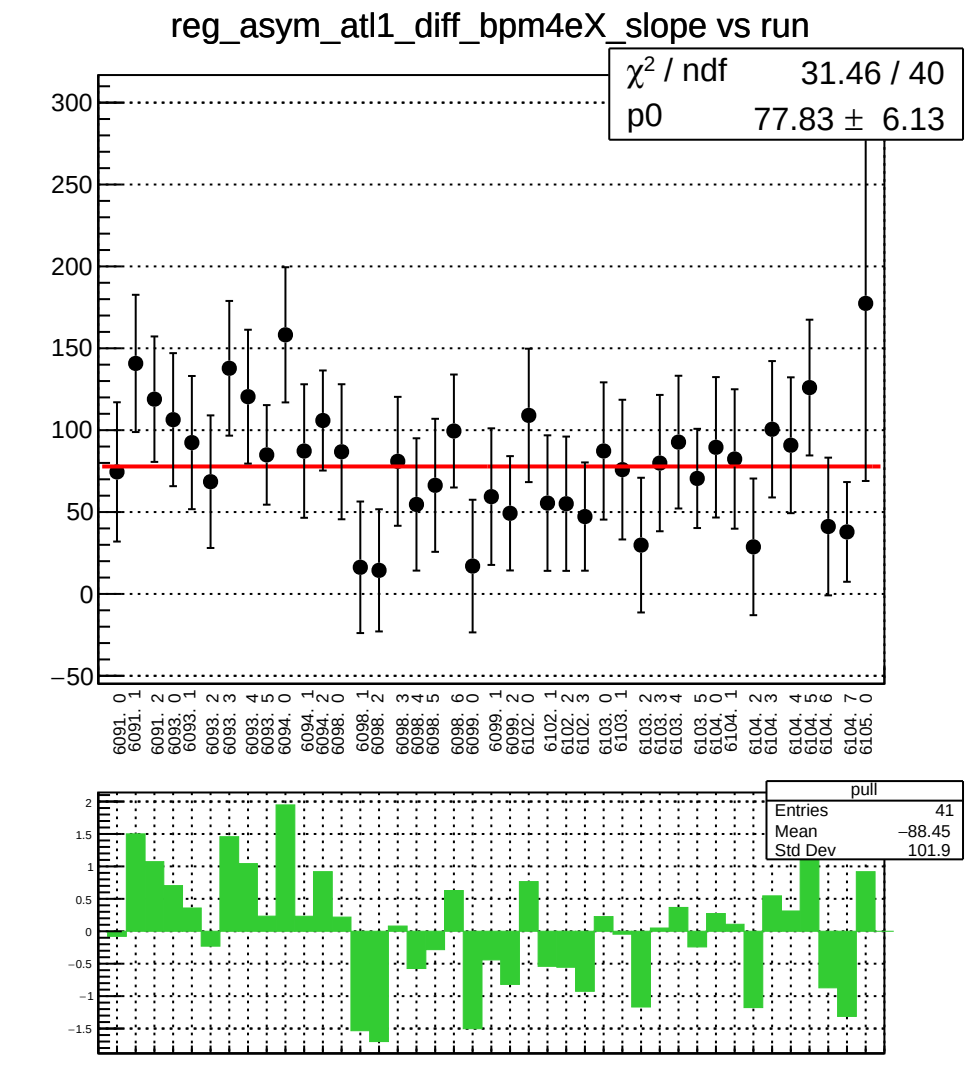

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.511 / 40
p0 33.72 ± 1.299
70
60
50
40
30
20
10
0
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1463
Std Dev 1483
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.002906
Std Dev 0.428
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

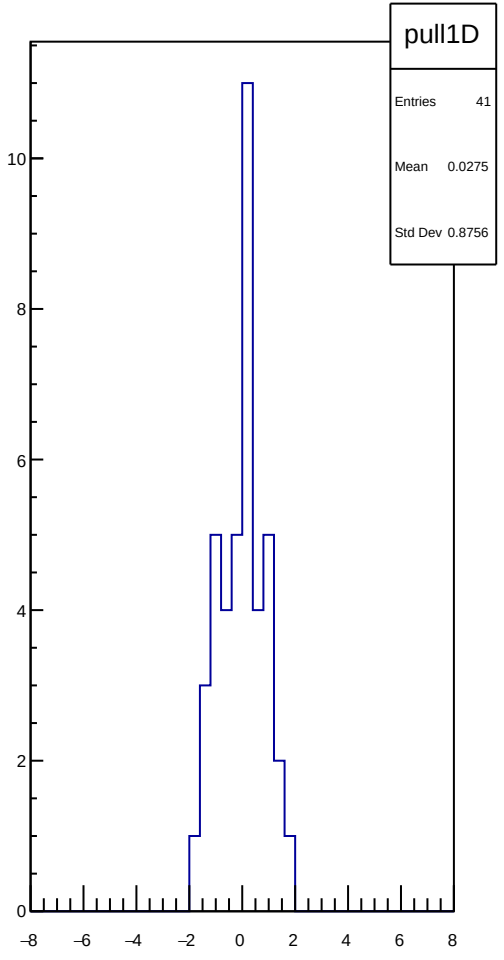

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.534 / 40
p0 −0.7418 ± 0.09119
pull
Entries 41
Mean −209.4
Std Dev 231
pull1D
Entries 41
Mean 0.004843
Std Dev 0.2486

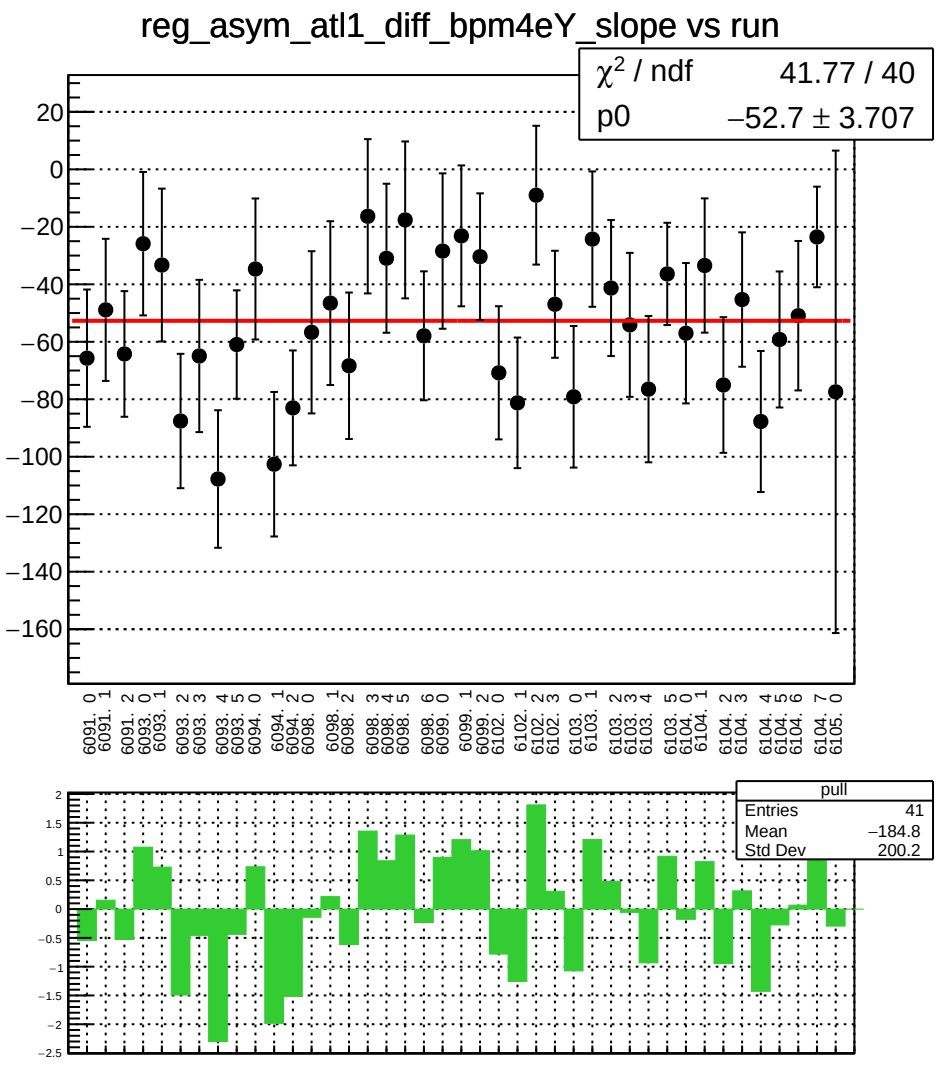

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 32.11 / 40
p0 −28.49 ± 5.259
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −80.25
Std Dev 93.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2

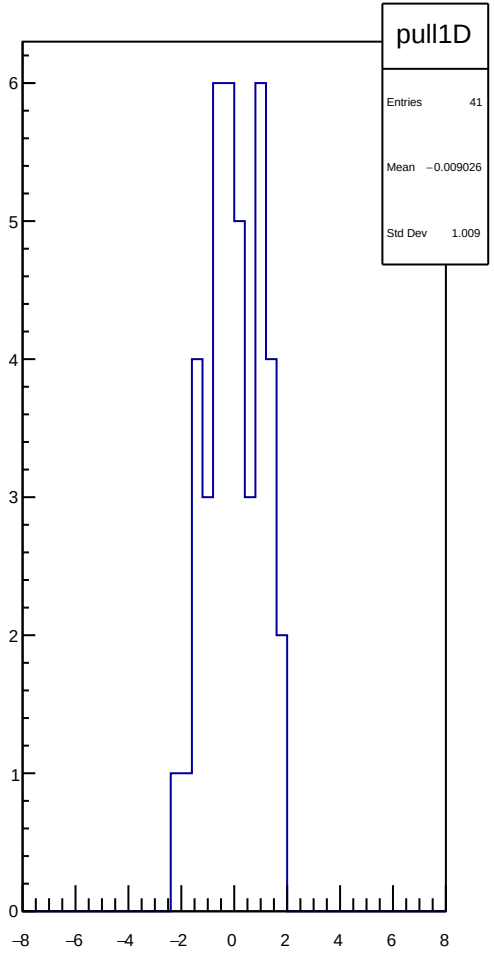

pull1D
Entries 41
Mean −0.03035
Std Dev 0.8844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

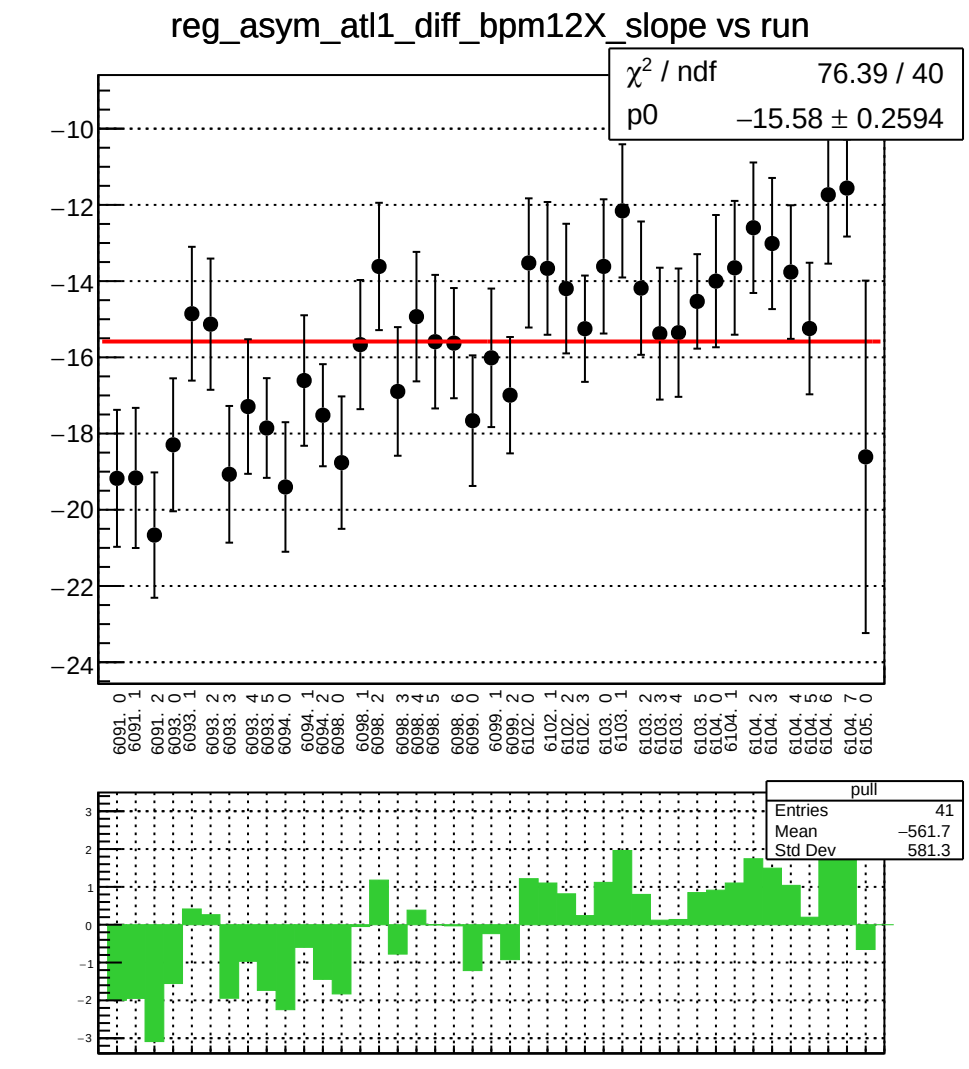

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 39.02 / 40
p0 34.75 ± 3.518
150
100
50
0
−50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 8.664
Std Dev 39.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.009094
Std Dev 0.9755
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

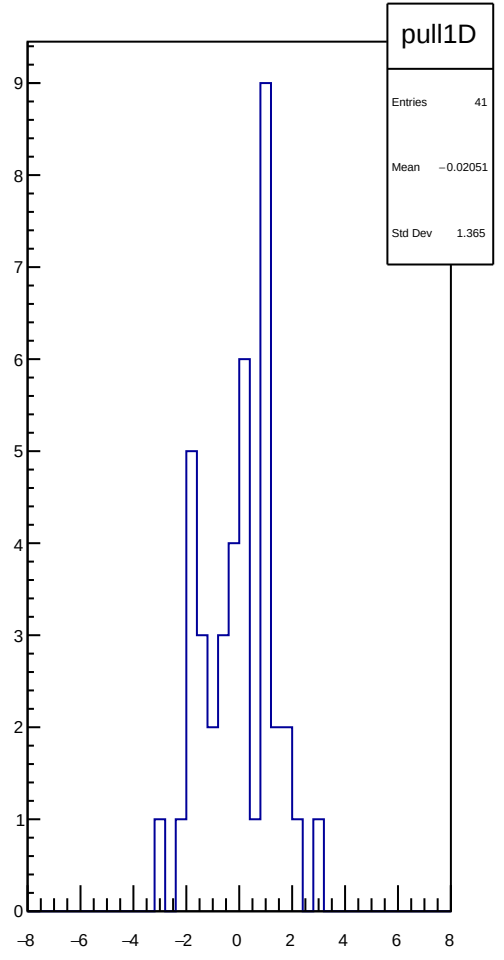

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 31.46 / 40
p0 77.83 ± 6.13
pull
Entries 41
Mean −88.45
Std Dev 101.9

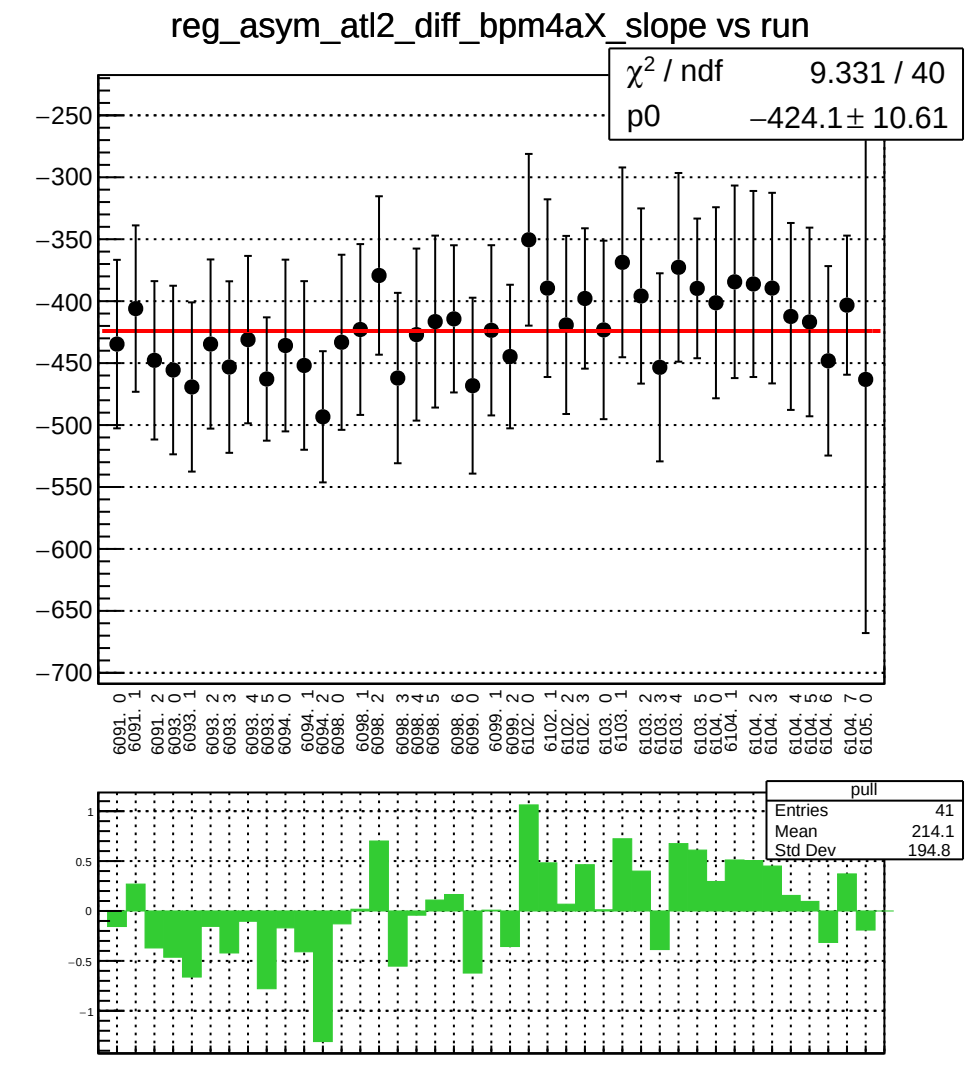

pull1D
Entries 41
Mean 0.0275
Std Dev 0.8756

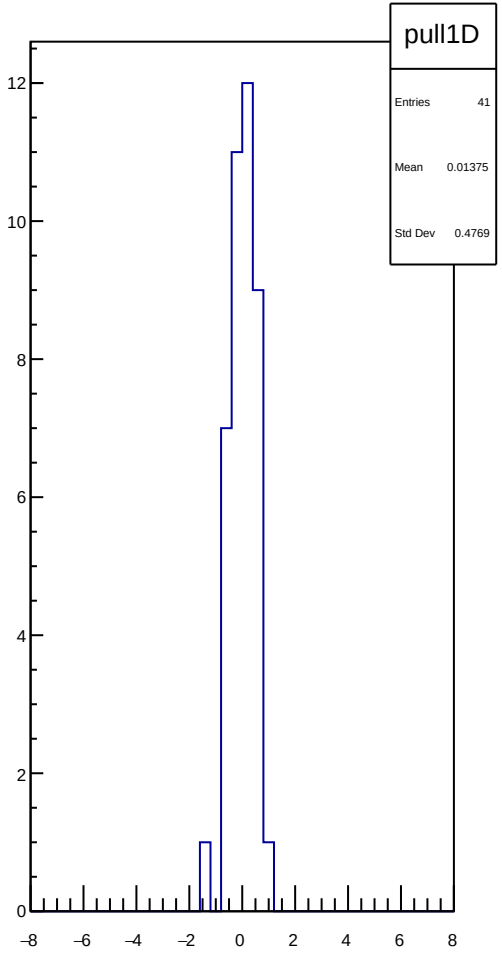

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 41.77 / 40
p0 −52.7 ± 3.707
pull
Entries 41
Mean −184.8
Std Dev 200.2

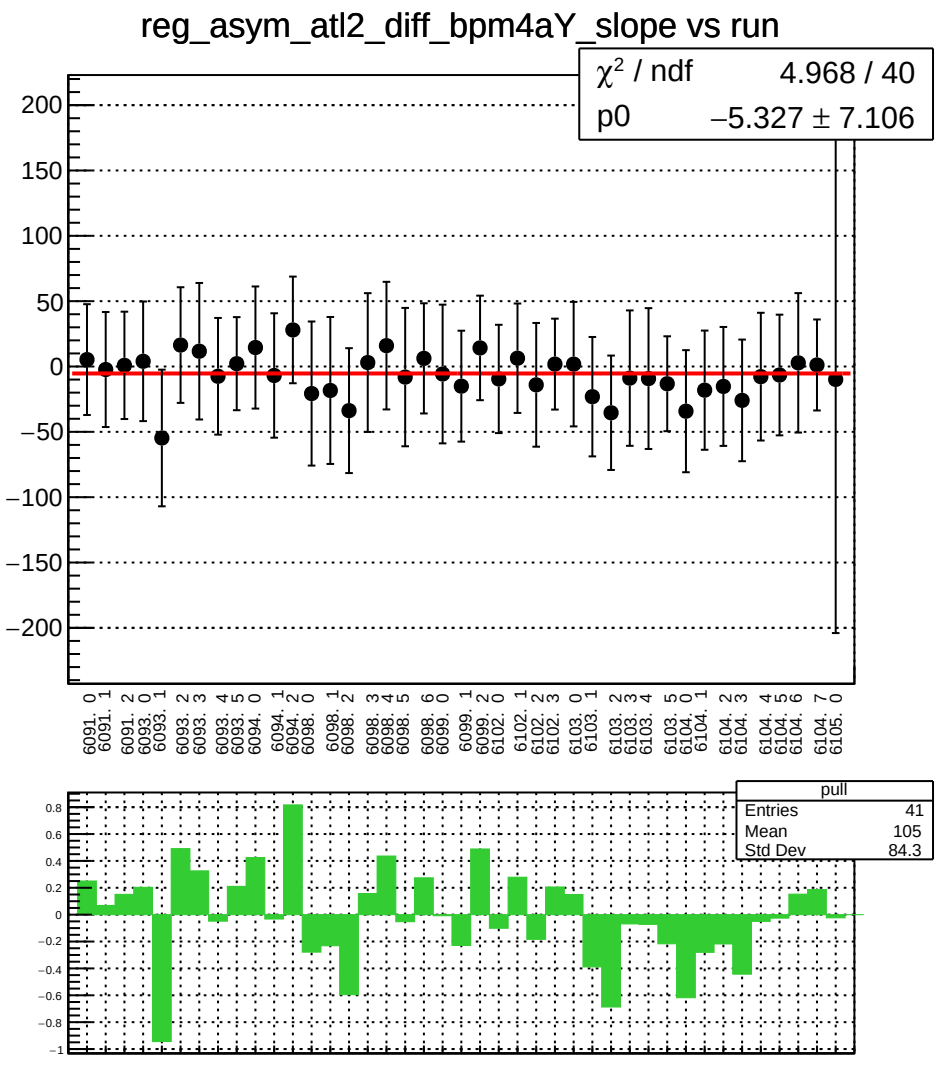

pull1D
Entries 41
Mean −0.009026
Std Dev 1.009

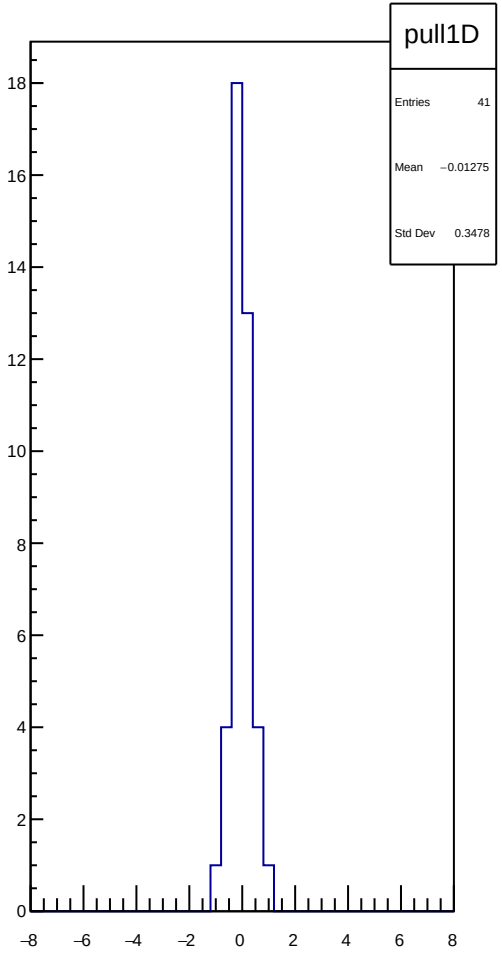

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 76.39 / 40
p0 −15.58 ± 0.2594
pull
Entries 41
Mean −561.7
Std Dev 581.3

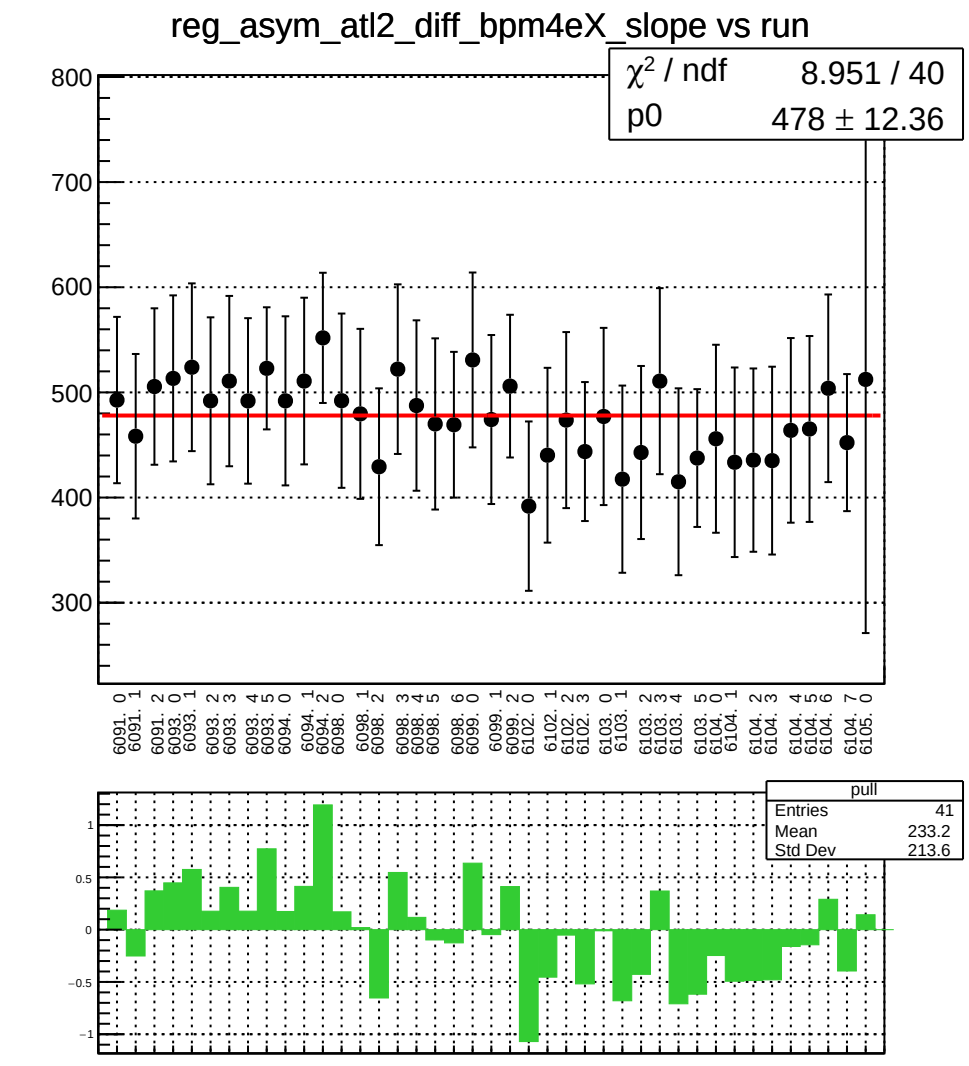

pull1D
Entries 41
Mean −0.02051
Std Dev 1.365

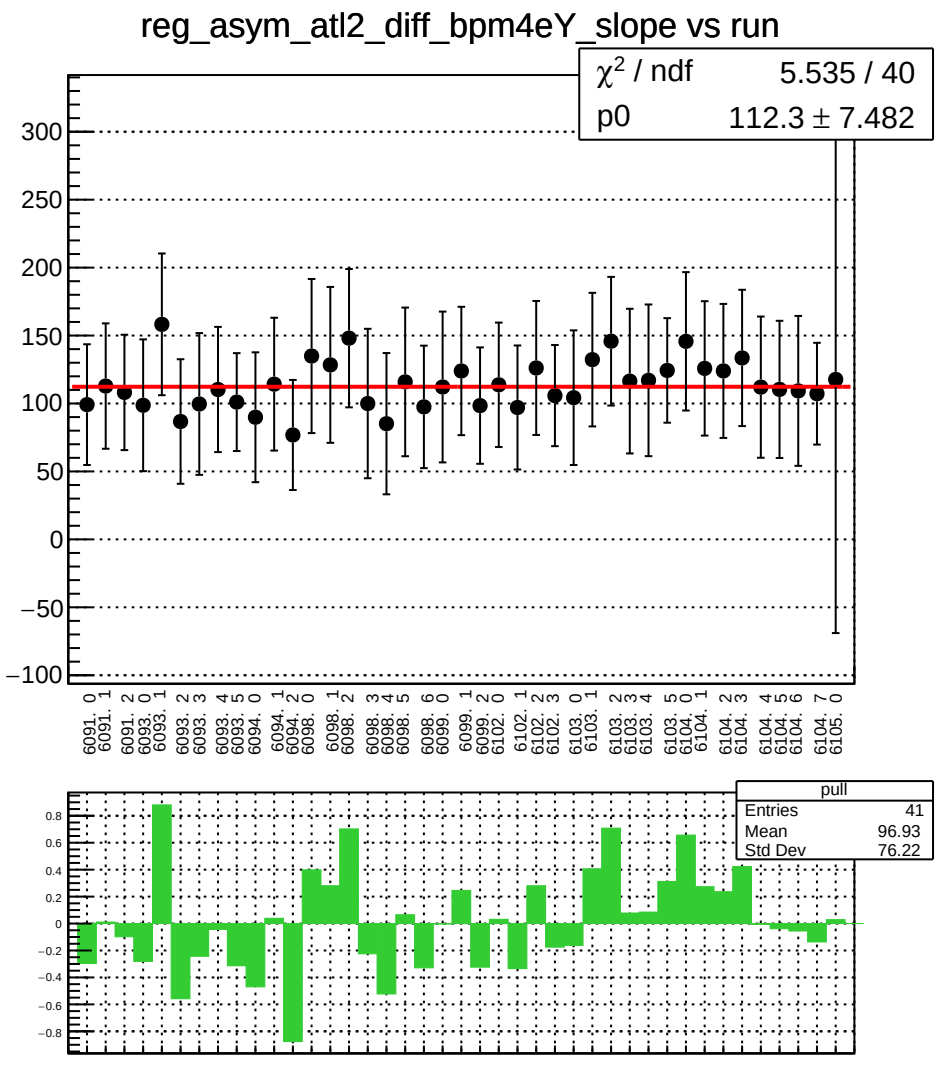

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 9.331 / 40
p0 −424.1± 10.61
pull
Entries 41
Mean 214.1
Std Dev 194.8

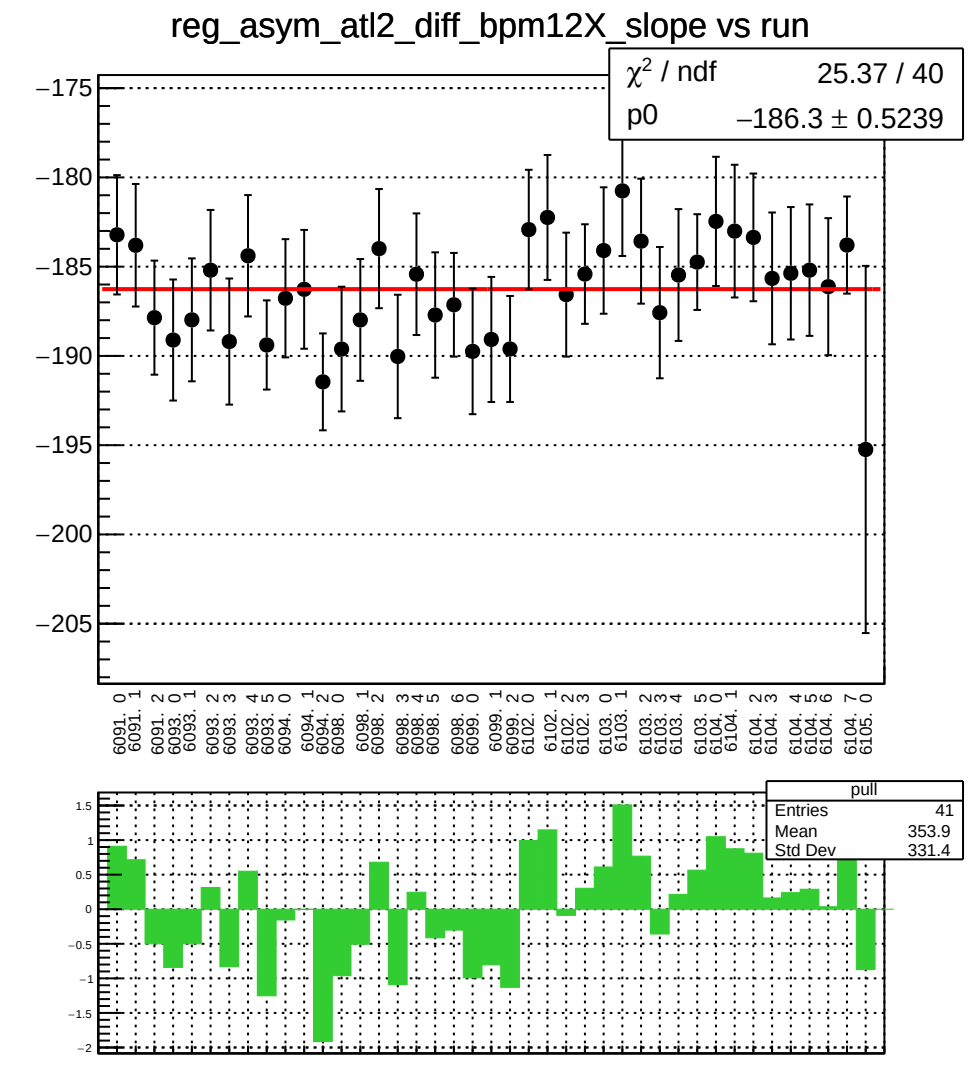

pull1D
Entries 41
Mean 0.01375
Std Dev 0.4769

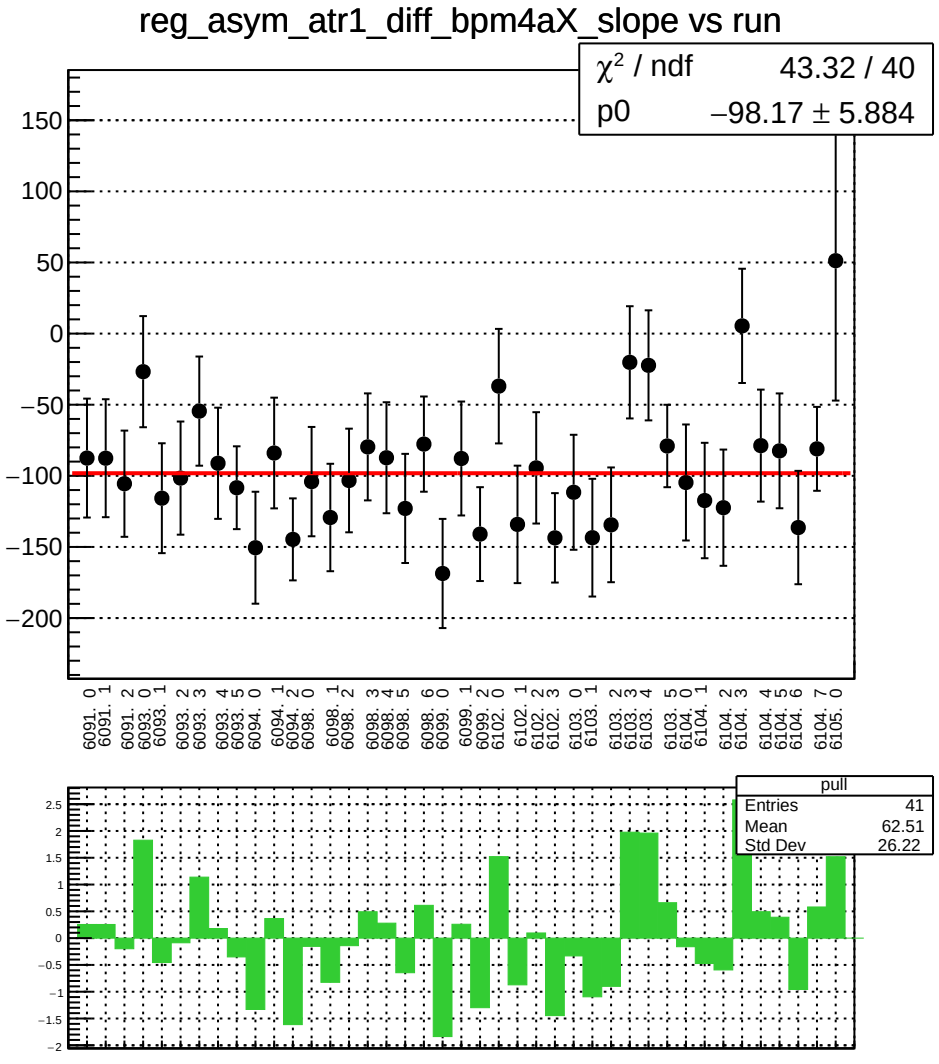

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.968 / 40
p0 −5.327 ± 7.106
pull
Entries 41
Mean 105
Std Dev 84.3

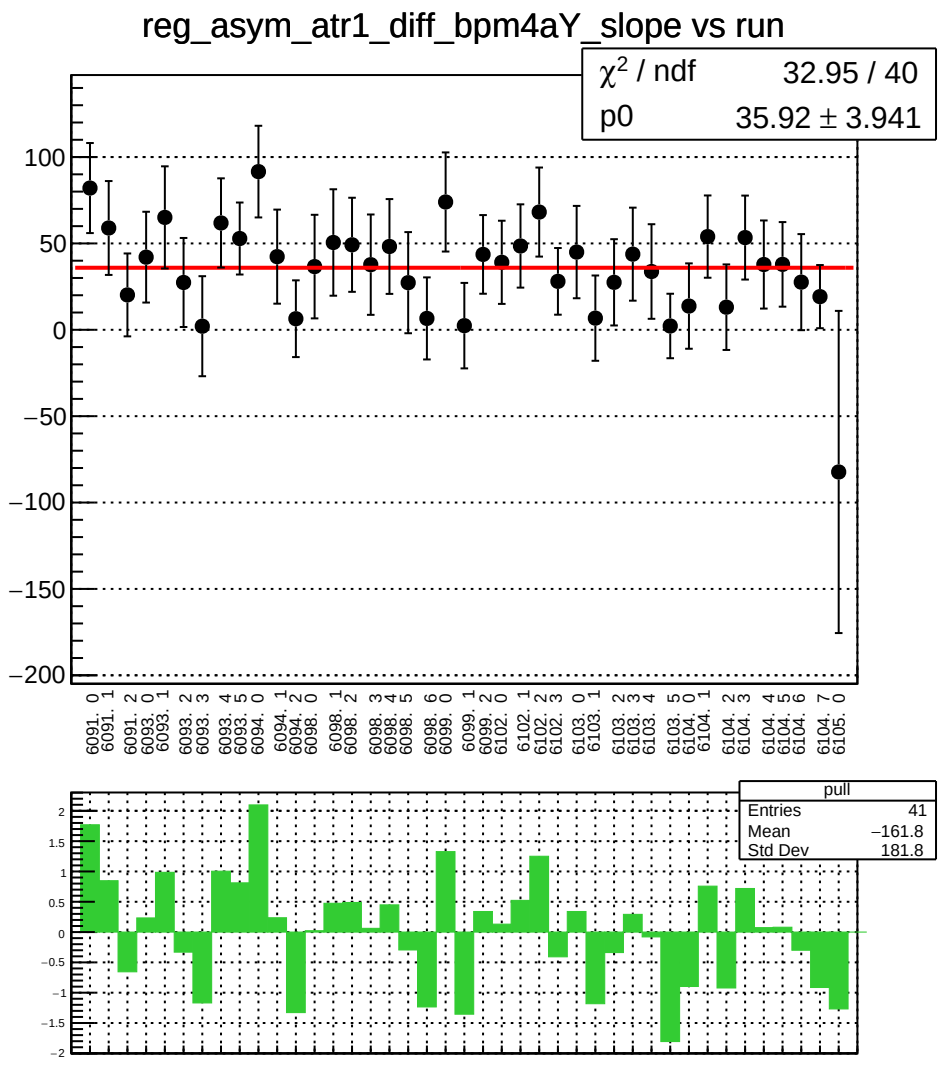

pull1D
Entries 41
Mean −0.01275
Std Dev 0.3478

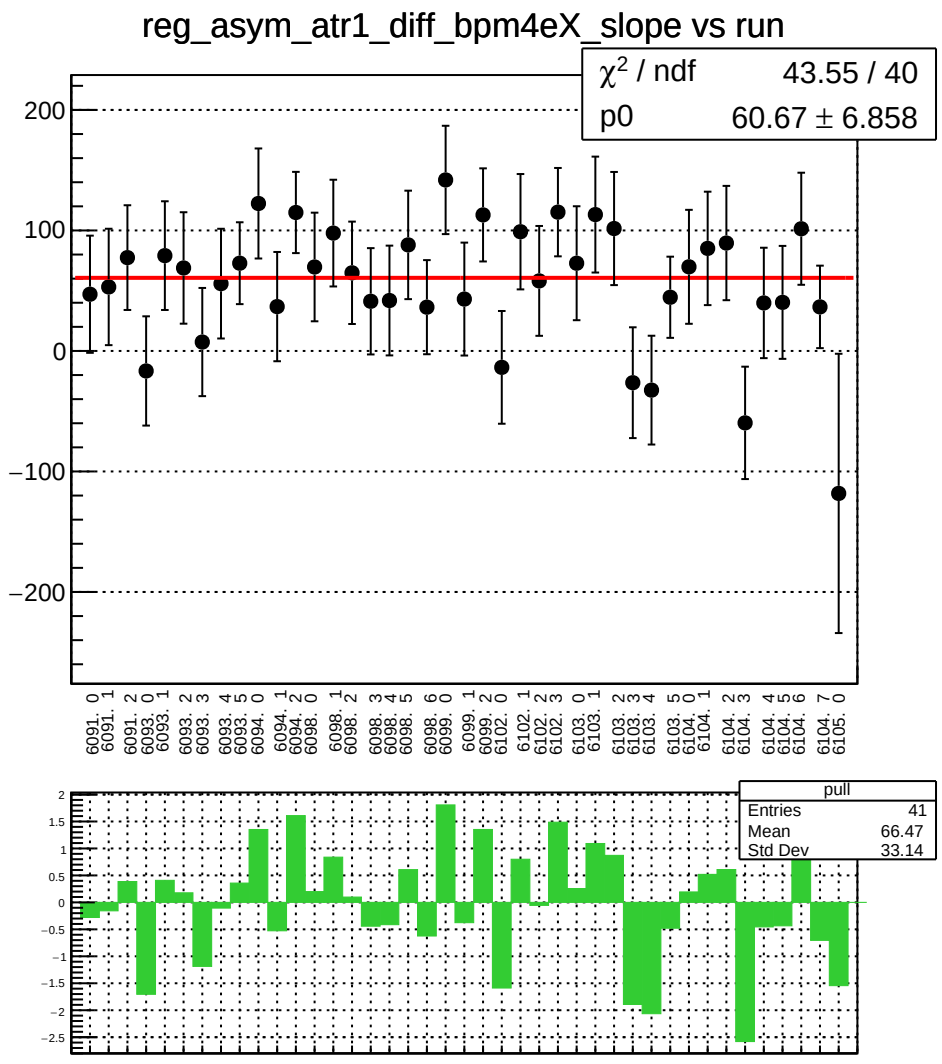

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 8.951 / 40
p0 478 ± 12.36
800
700
600
500
400
300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 233.2
Std Dev 213.6
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.0129
Std Dev 0.4671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

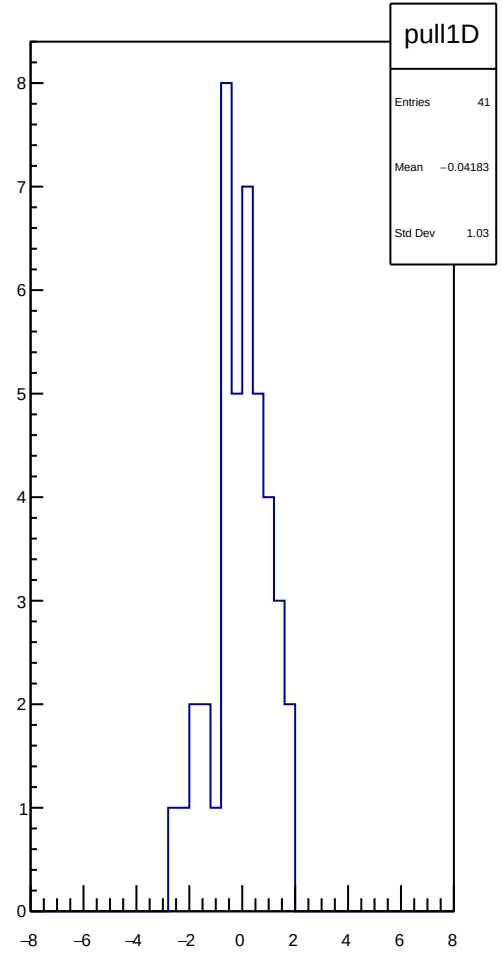

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.535 / 40
p0 112.3 ± 7.482
300
250
200
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 96.93
Std Dev 76.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.01598
Std Dev 0.3671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

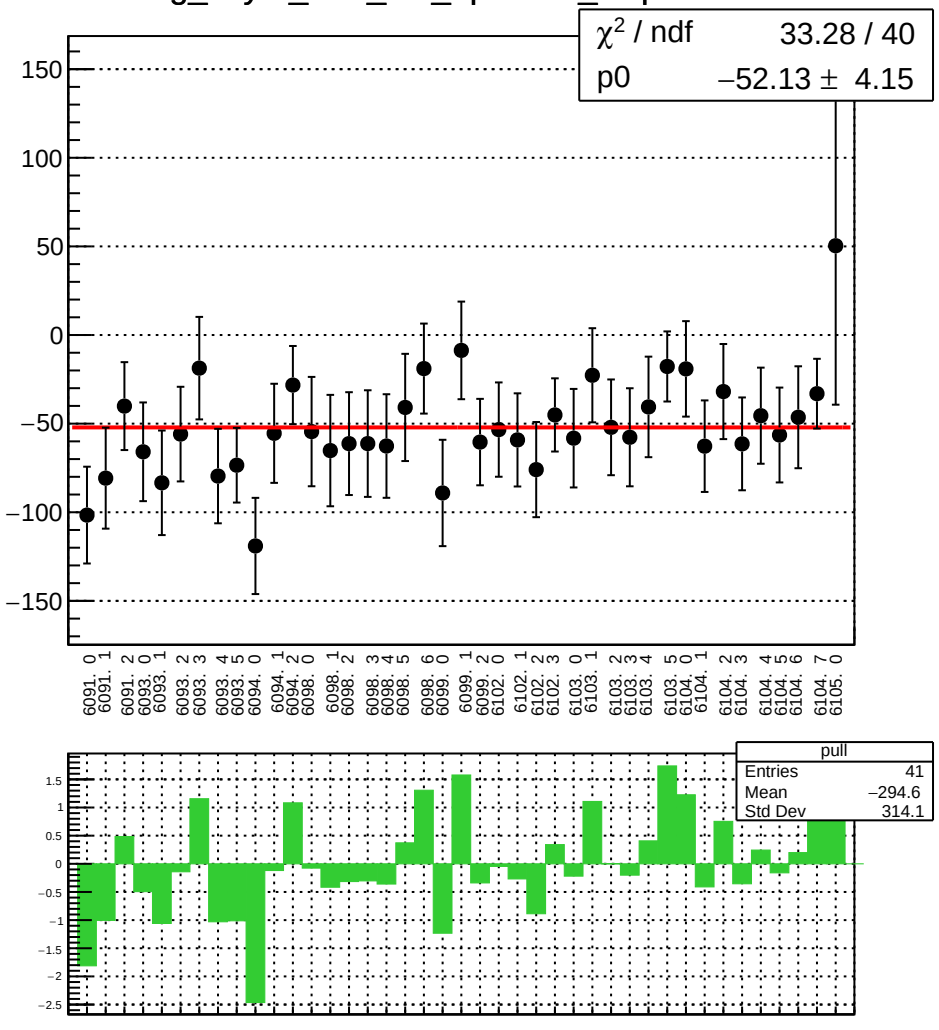

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 25.37 / 40
p0 −186.3 ± 0.5239
−175
−180
−185
−190
−195
−200
−205
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 353.9
Std Dev 331.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.009185
Std Dev 0.7866
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

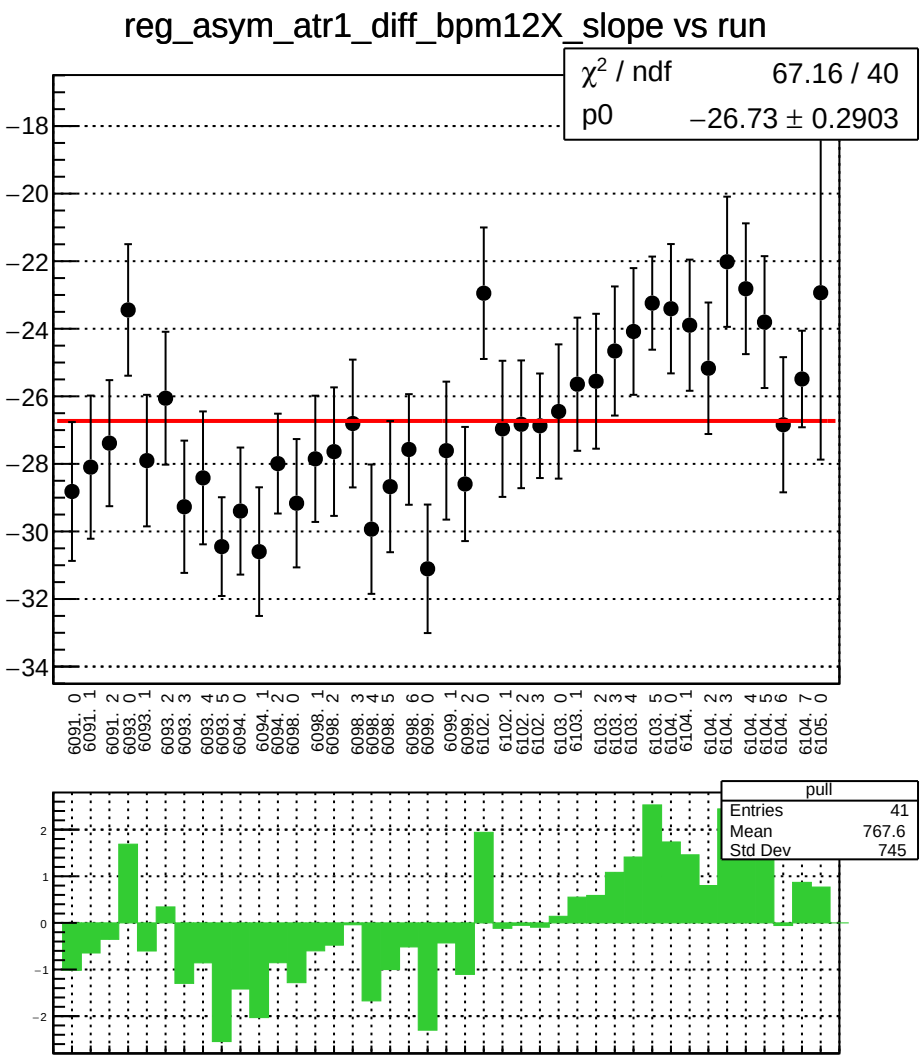

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 43.32 / 40
p0 −98.17 ± 5.884
150
100
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 62.51
Std Dev 26.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.04093
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

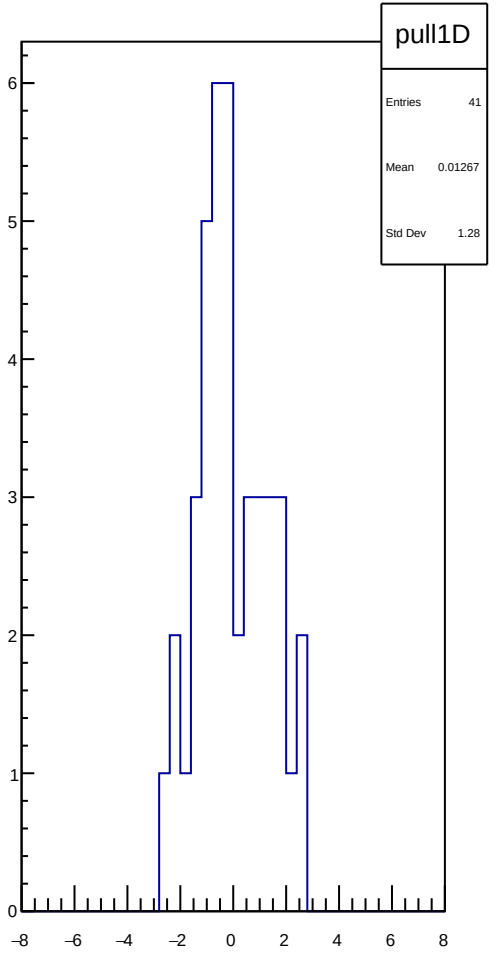

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 32.95 / 40
p0 35.92 ± 3.941
100
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −161.8
Std Dev 181.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02025
Std Dev 0.8963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

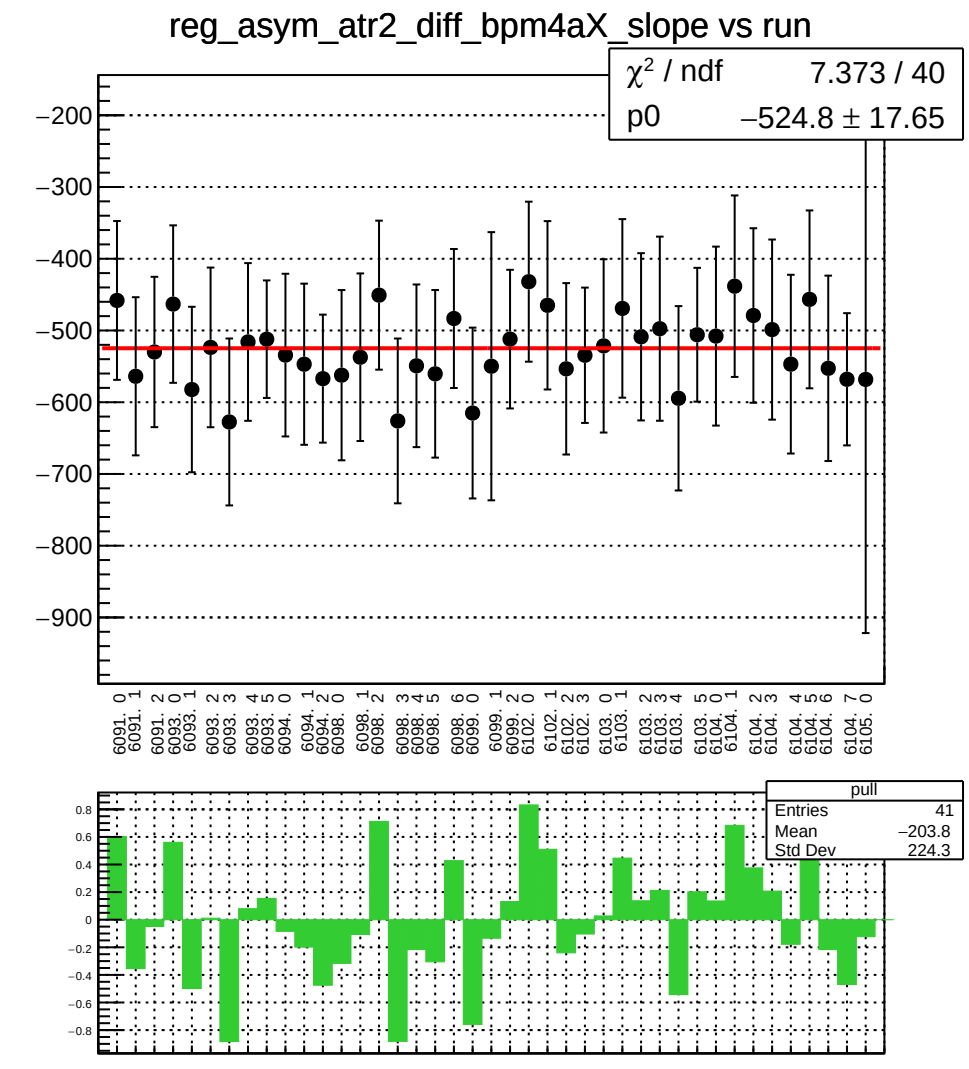

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 43.55 / 40
p0 60.67 ± 6.858
200
100
0
−100
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 66.47
Std Dev 33.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

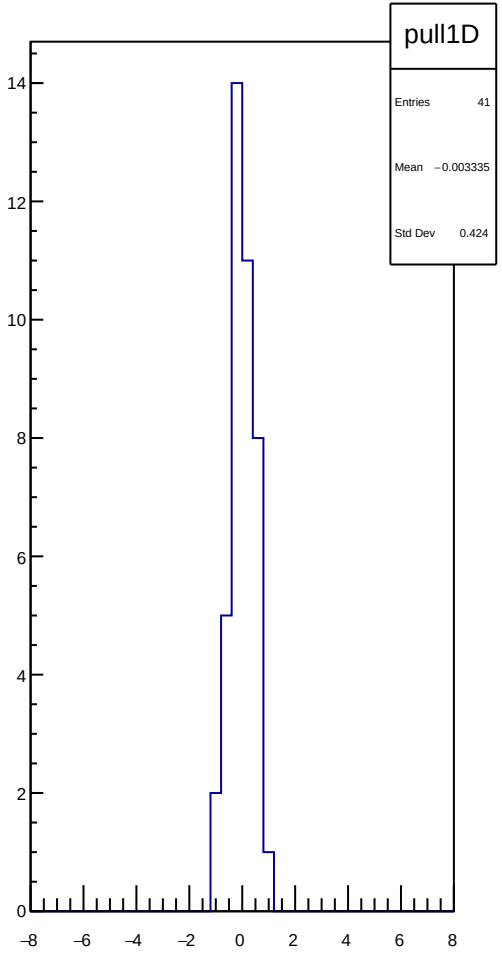

pull1D
Entries 41
Mean −0.04183
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

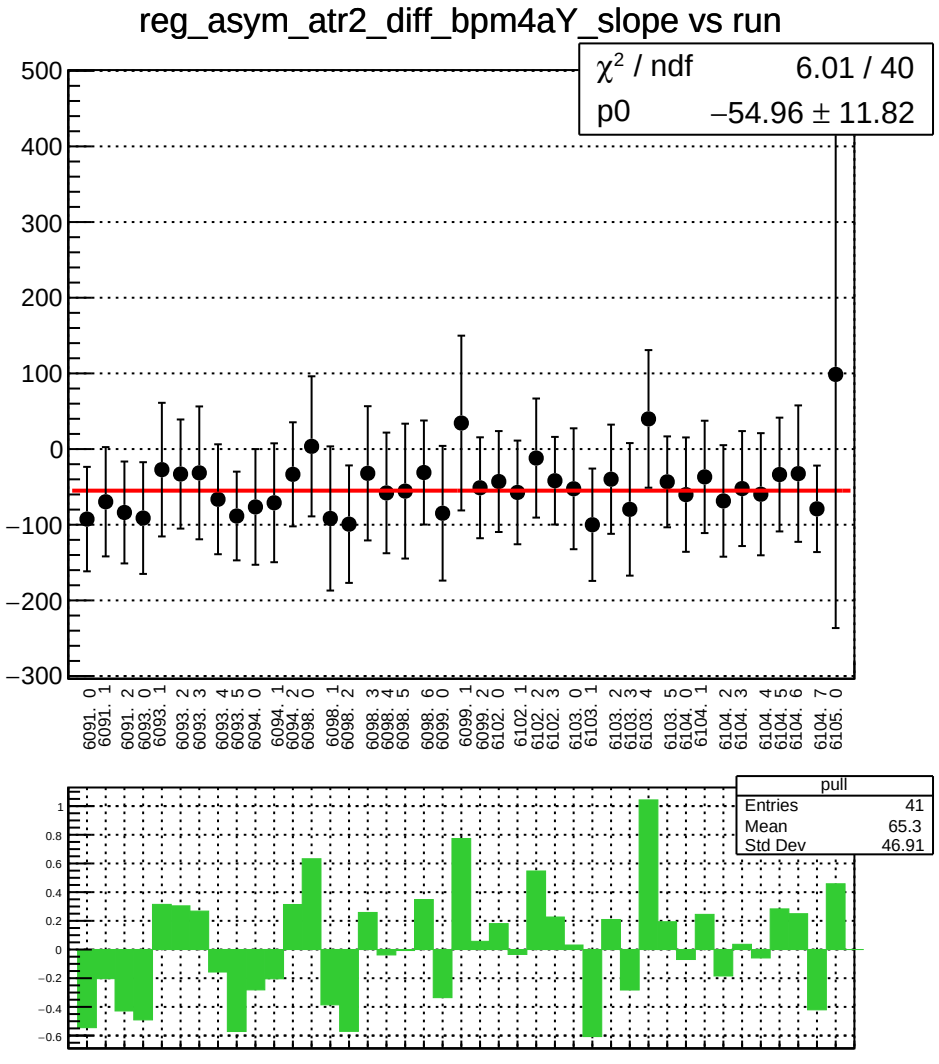

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 33.28 / 40
p0 −52.13 ± 4.15
150
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −294.6
Std Dev 314.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean −0.01496
Std Dev 0.9009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

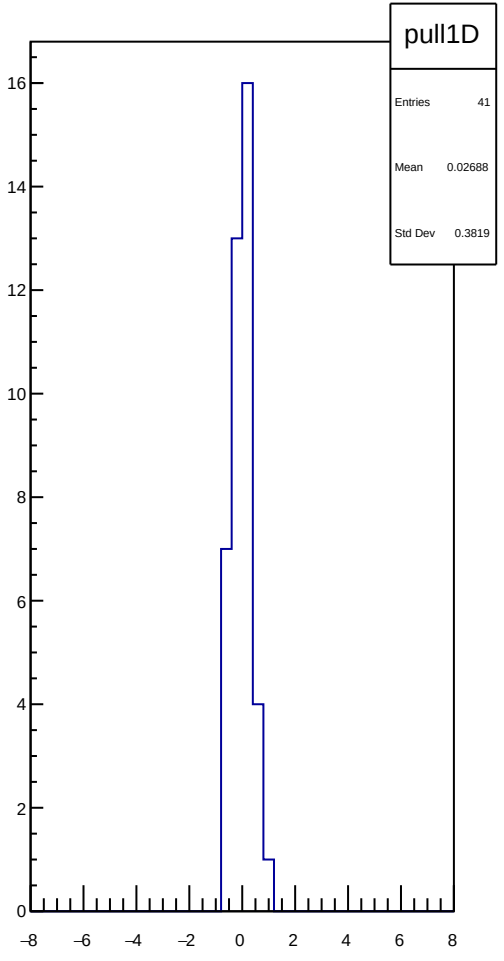

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 67.16 / 40
p0 −26.73 ± 0.2903
pull
Entries 41
Mean 767.6
Std Dev 745

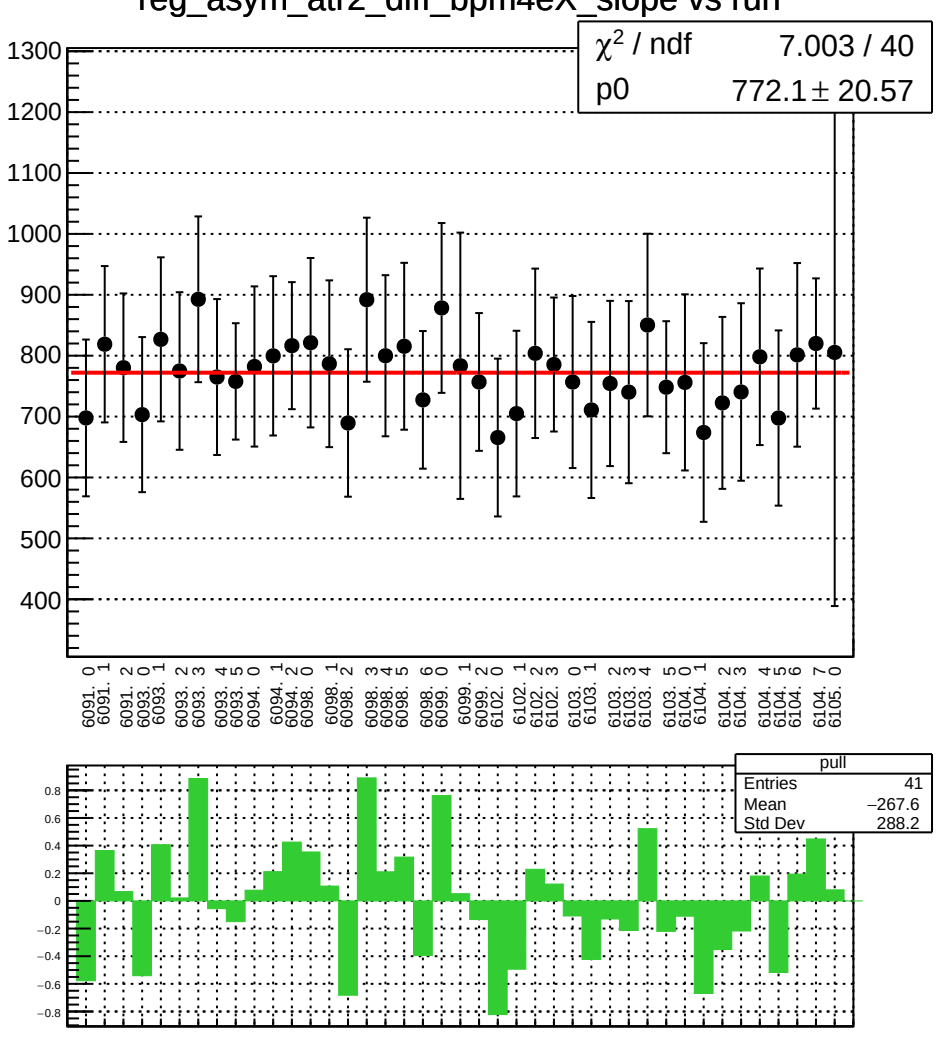

pull1D
Entries 41
Mean 0.01267
Std Dev 1.28

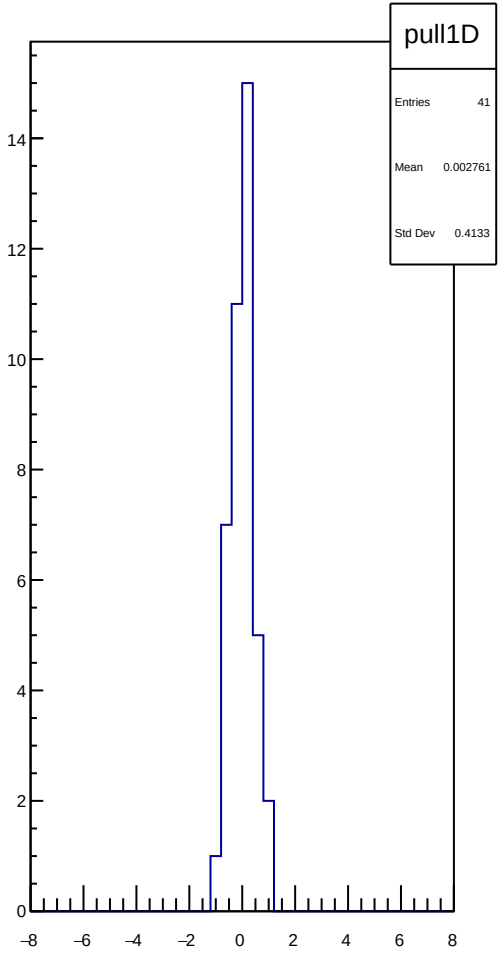

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 7.373 / 40
p0 −524.8 ± 17.65
pull
Entries 41
Mean −203.8
Std Dev 224.3

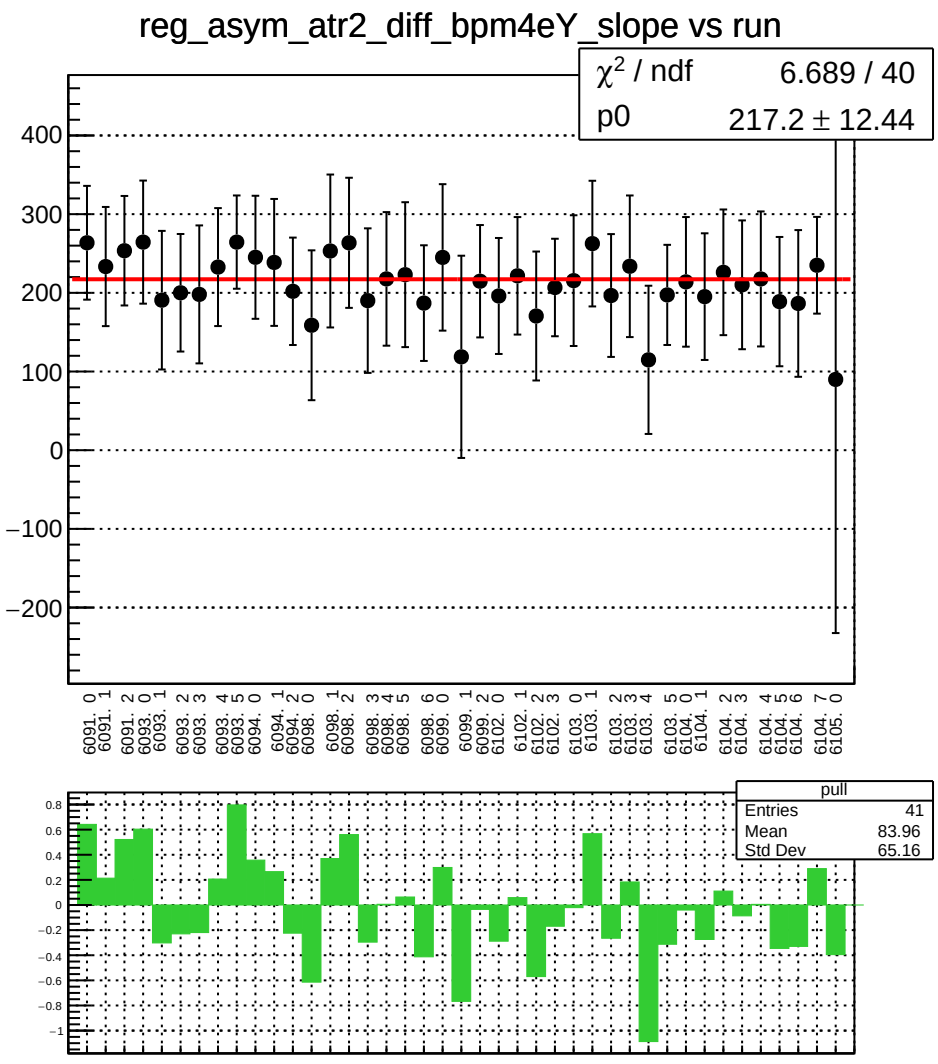

pull1D
Entries 41
Mean −0.003335
Std Dev 0.424

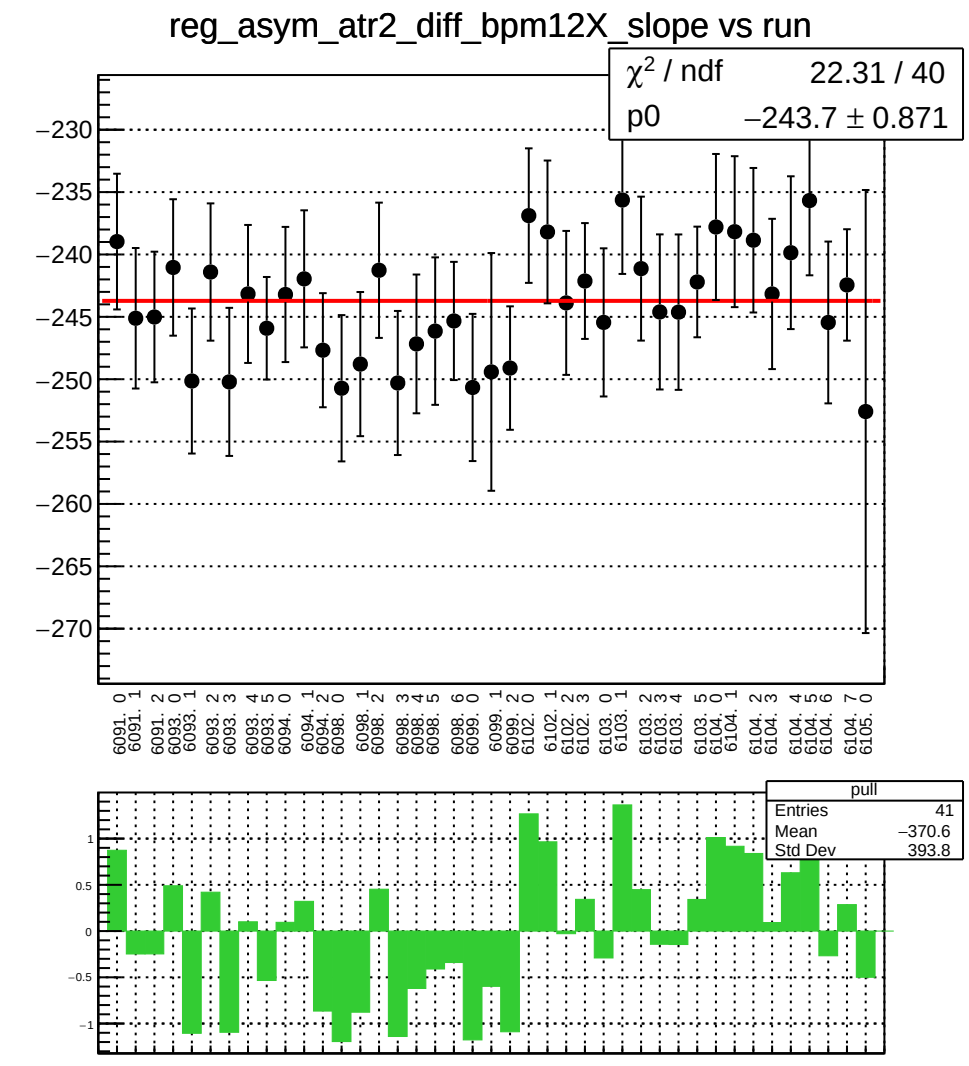

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 6.01 / 40
p0 −54.96 ± 11.82
pull
Entries 41
Mean 65.3
Std Dev 46.91

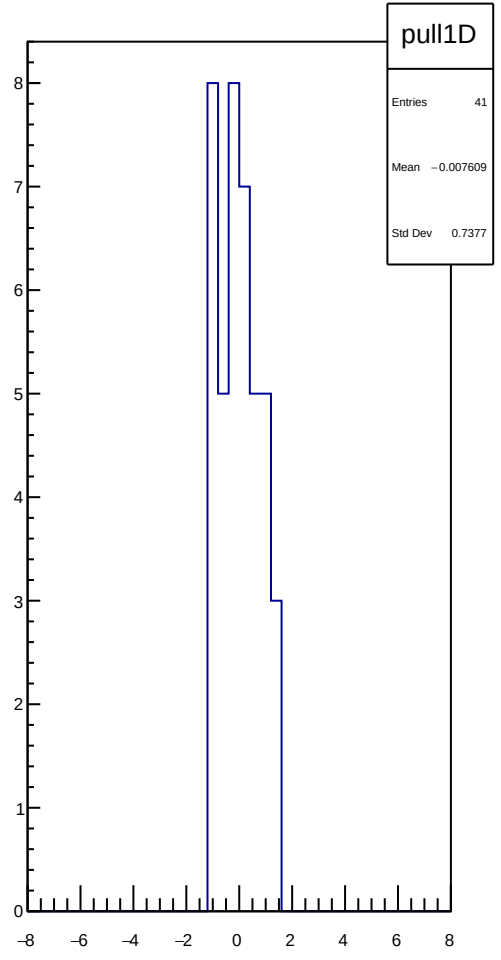

pull1D
Entries 41
Mean 0.02688
Std Dev 0.3819

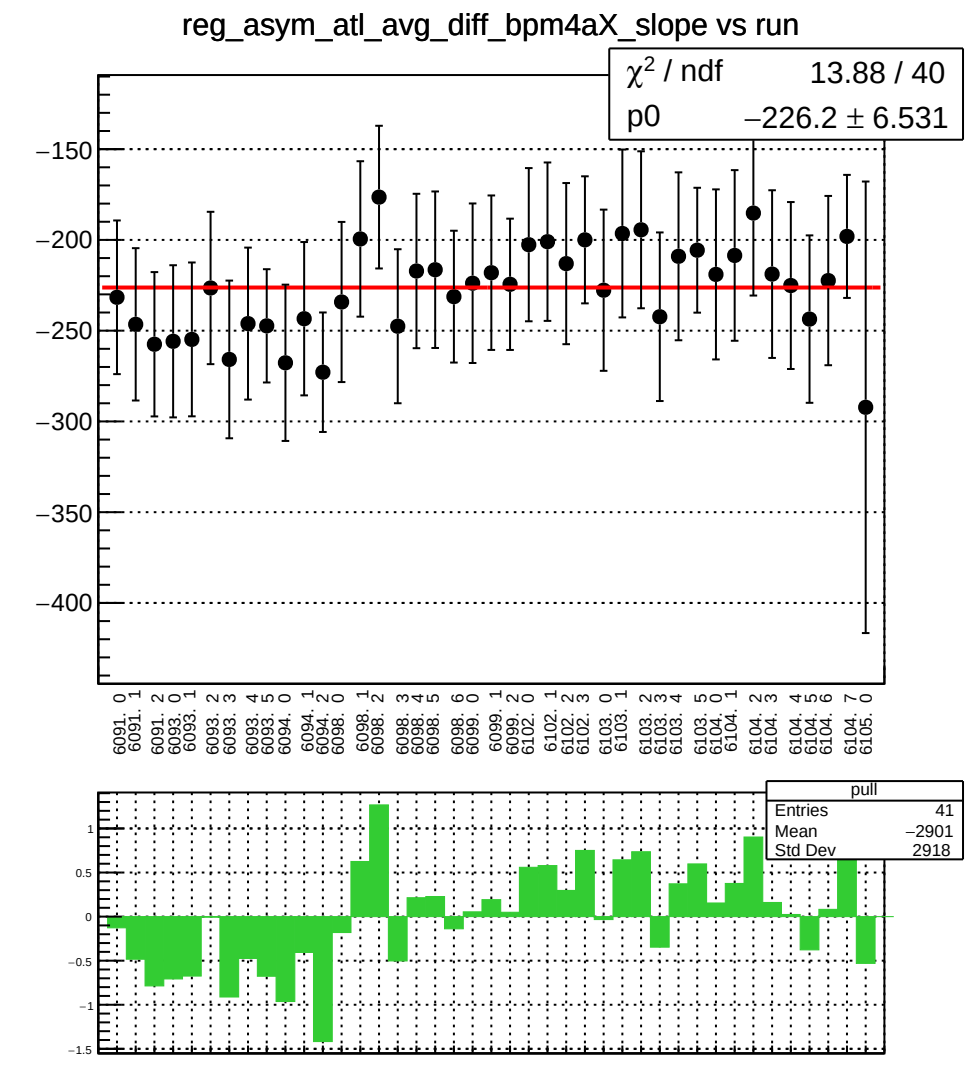

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 7.003 / 40
p0 772.1 ± 20.57
pull
Entries 41
Mean −267.6
Std Dev 288.2

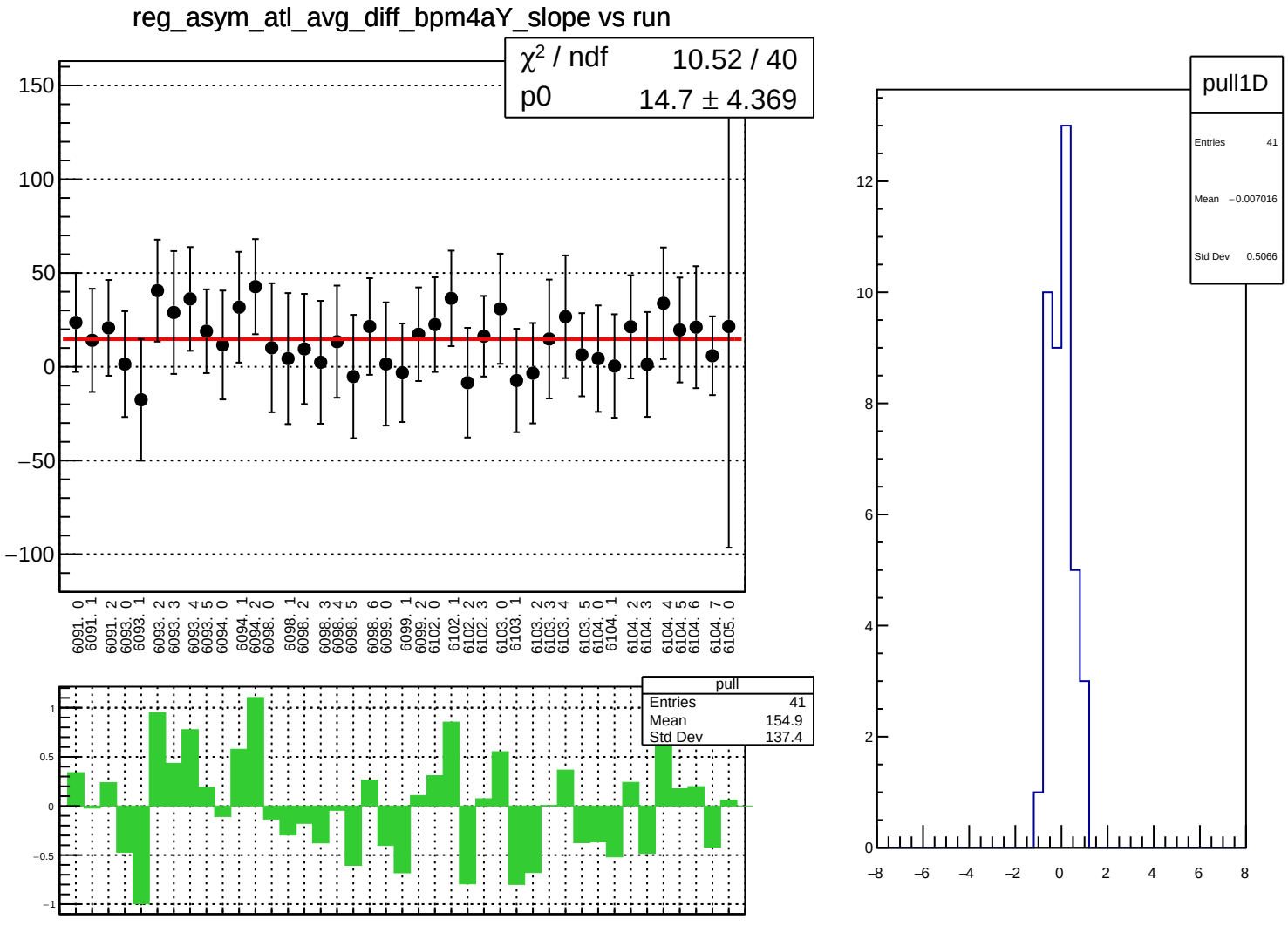

pull1D
Entries 41
Mean 0.002761
Std Dev 0.4133

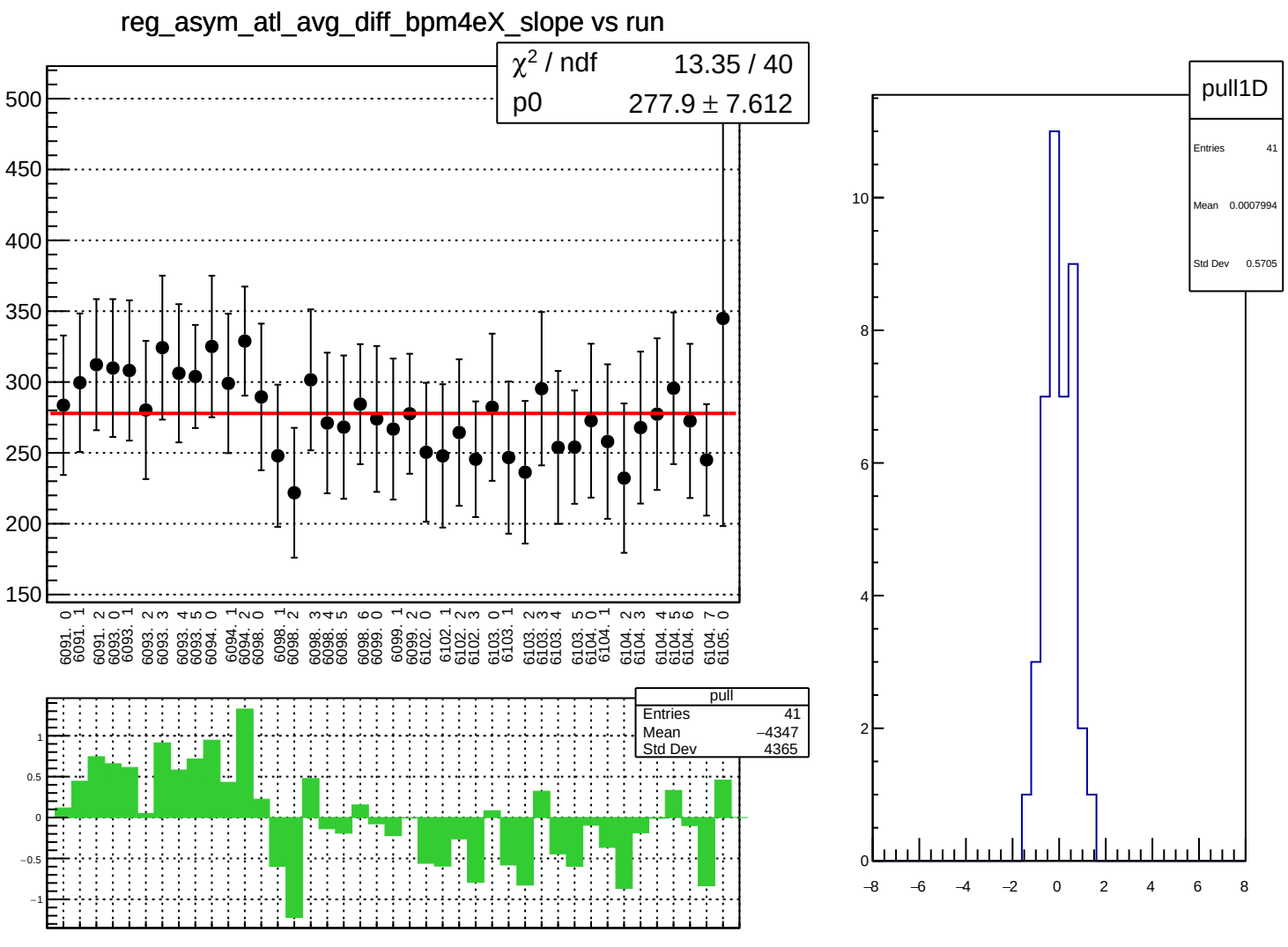

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 6.689 / 40
p0 217.2 ± 12.44
400
300
200
100
0
−100
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 83.96
Std Dev 65.16
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean −0.02831
Std Dev 0.4029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 22.31 / 40
p0 −243.7 ± 0.871
pull
Entries 41
Mean −370.6
Std Dev 393.8


pull1D
Entries 41
Mean −0.007609
Std Dev 0.7377


reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.88 / 40
p0 −226.2 ± 6.531
−150
−200
−250
−300
−350
−400
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −2901
Std Dev 2918
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.001182
Std Dev 0.5818
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.52 / 40
p0 14.7 ± 4.369
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 154.9
Std Dev 137.4
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.007016
Std Dev 0.5066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.35 / 40
p0 277.9 ± 7.612
500
450
400
350
300
250
200
150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −4347
Std Dev 4365
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.0007994
Std Dev 0.5705
10
8
6
4
2
0
−8
−6
−4
−2
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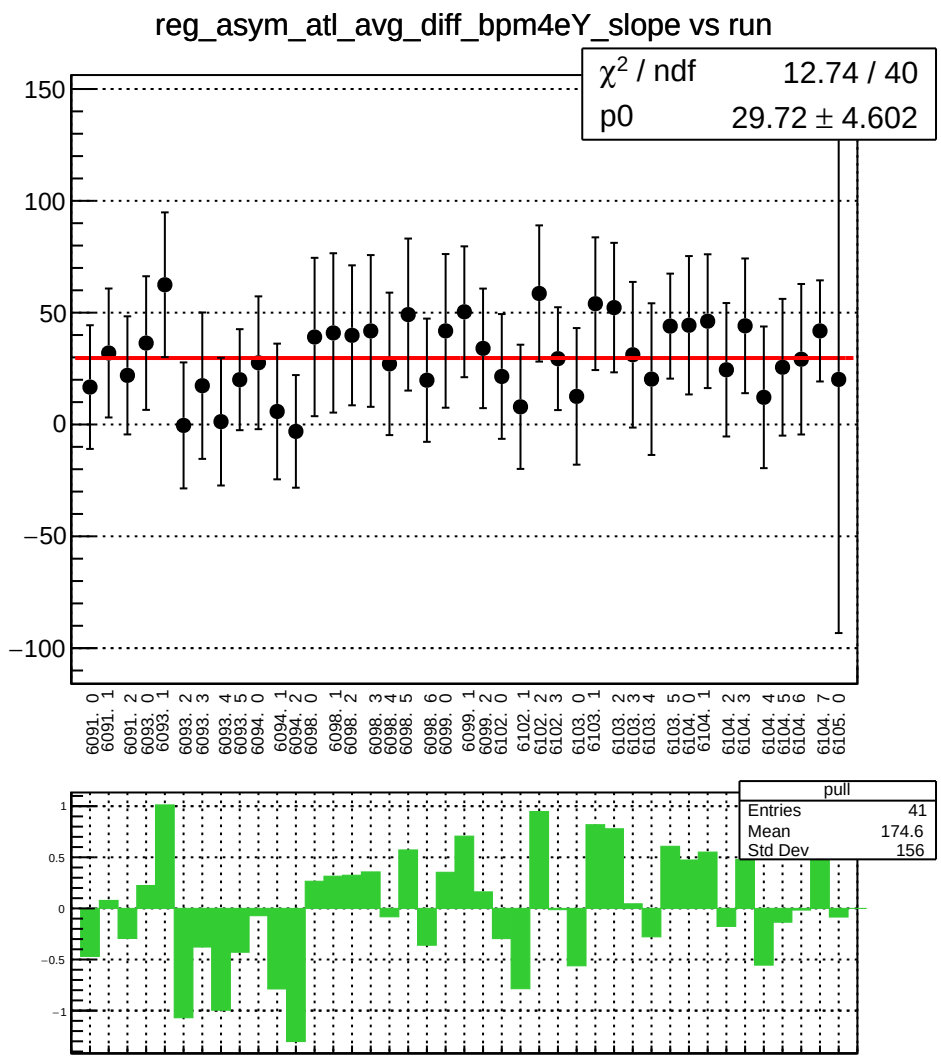
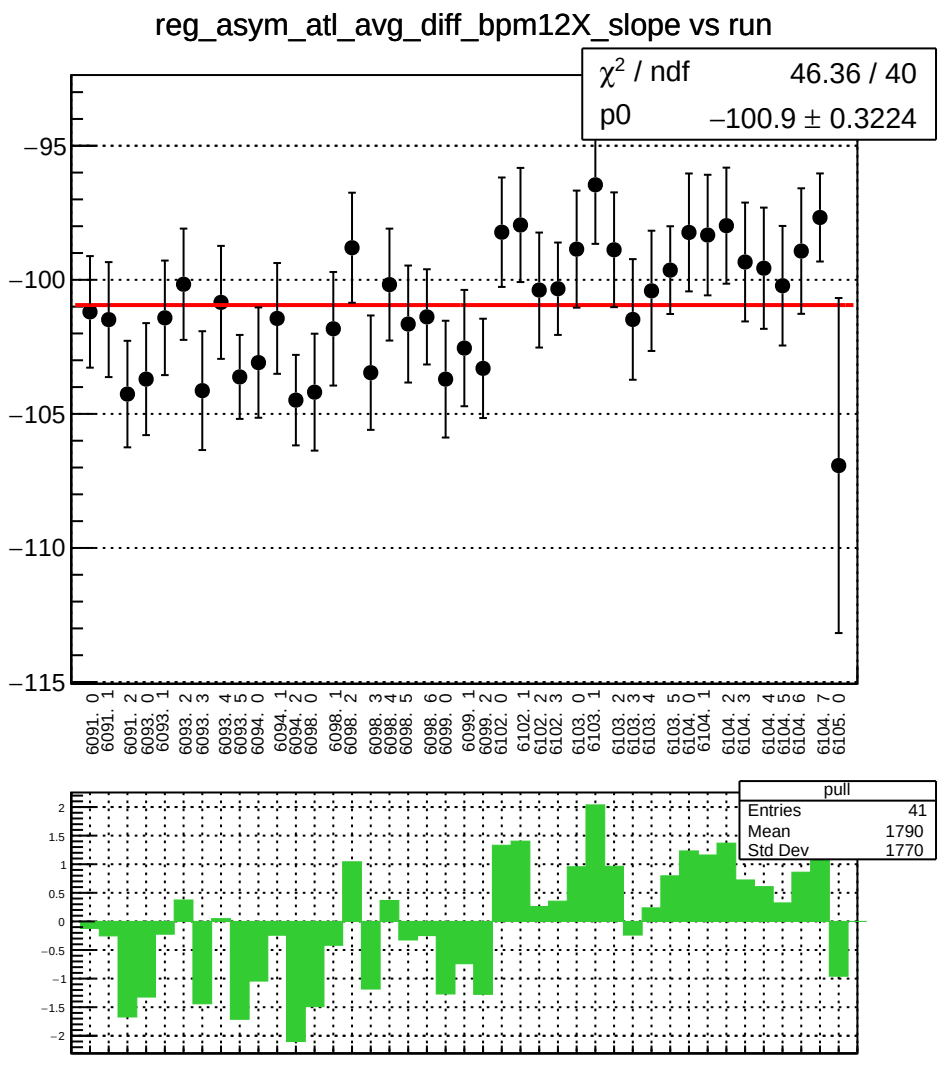
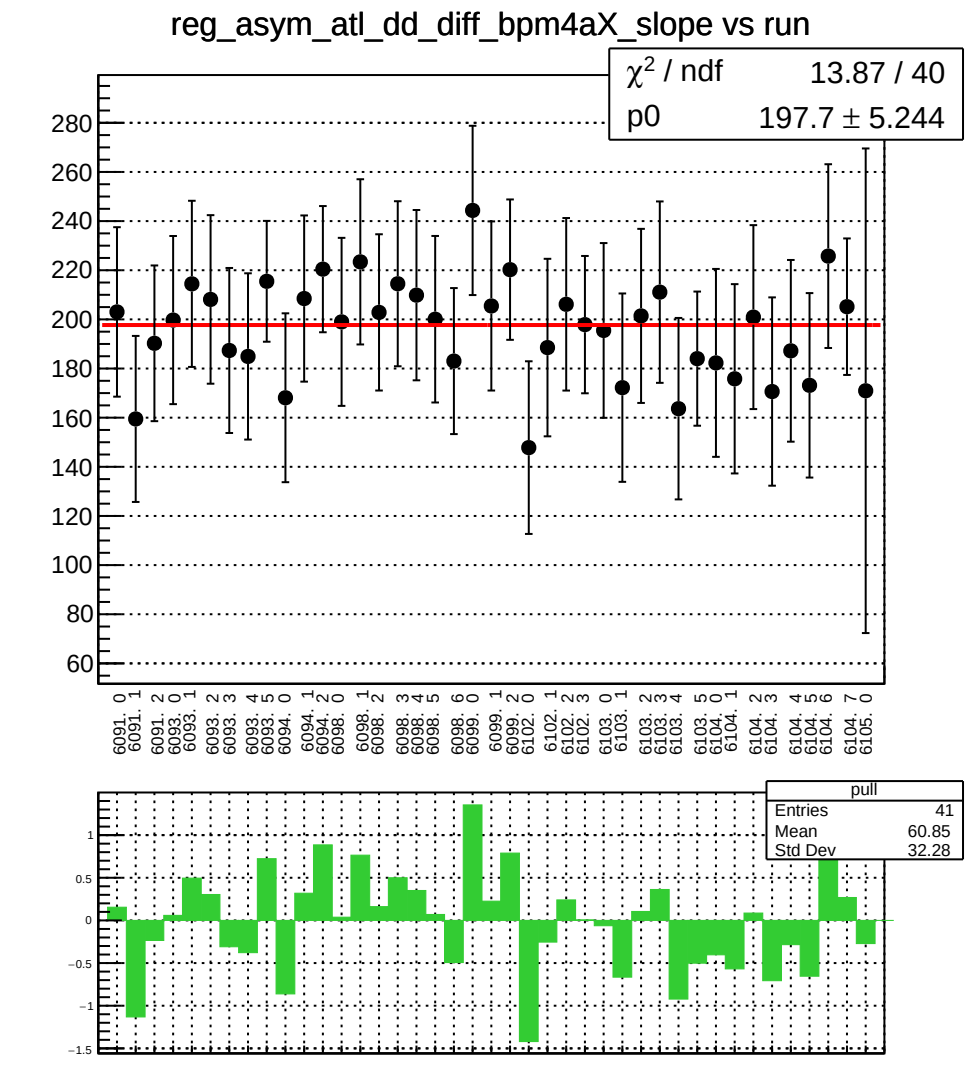
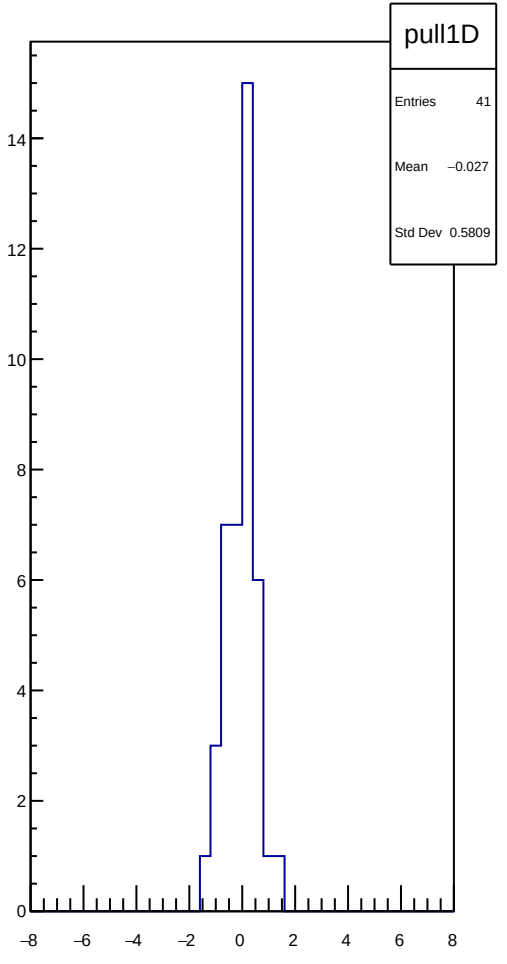
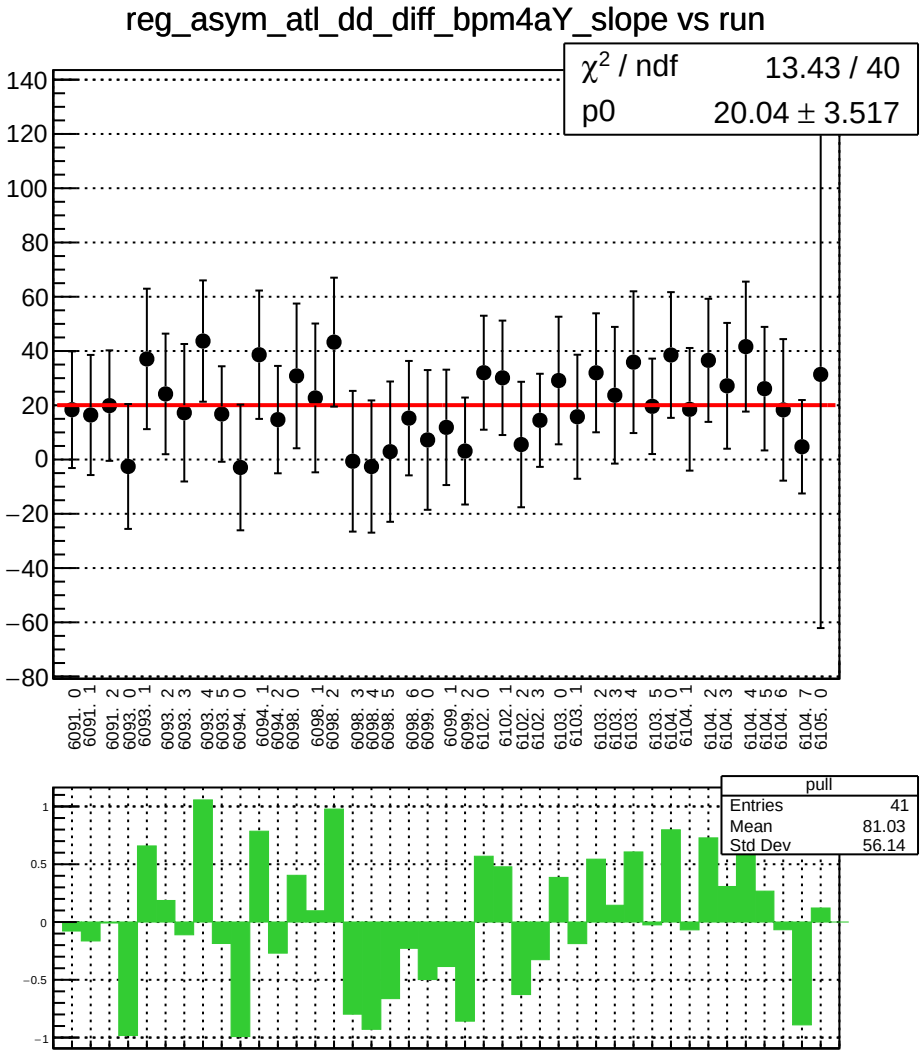
2
4
6
8

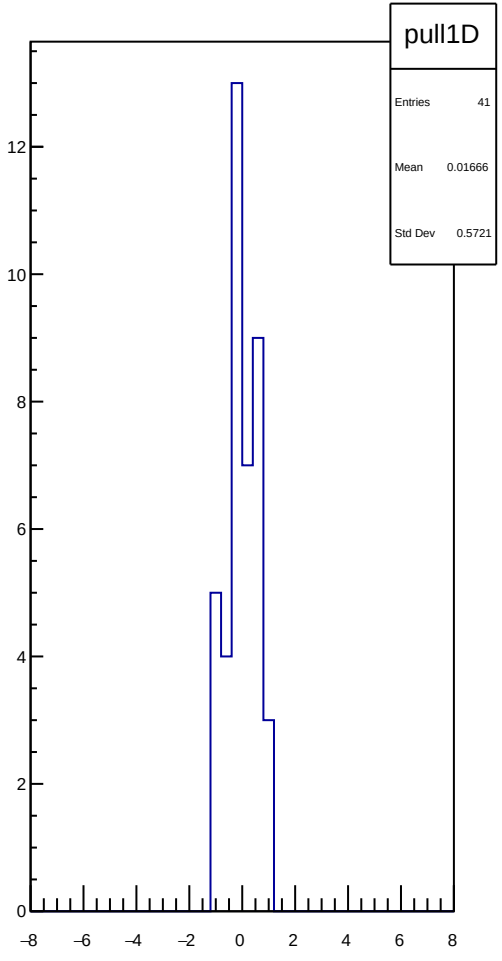

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.74 / 40
p0 29.72 ± 4.602
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 174.6
Std Dev 156
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.01145
Std Dev 0.5573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

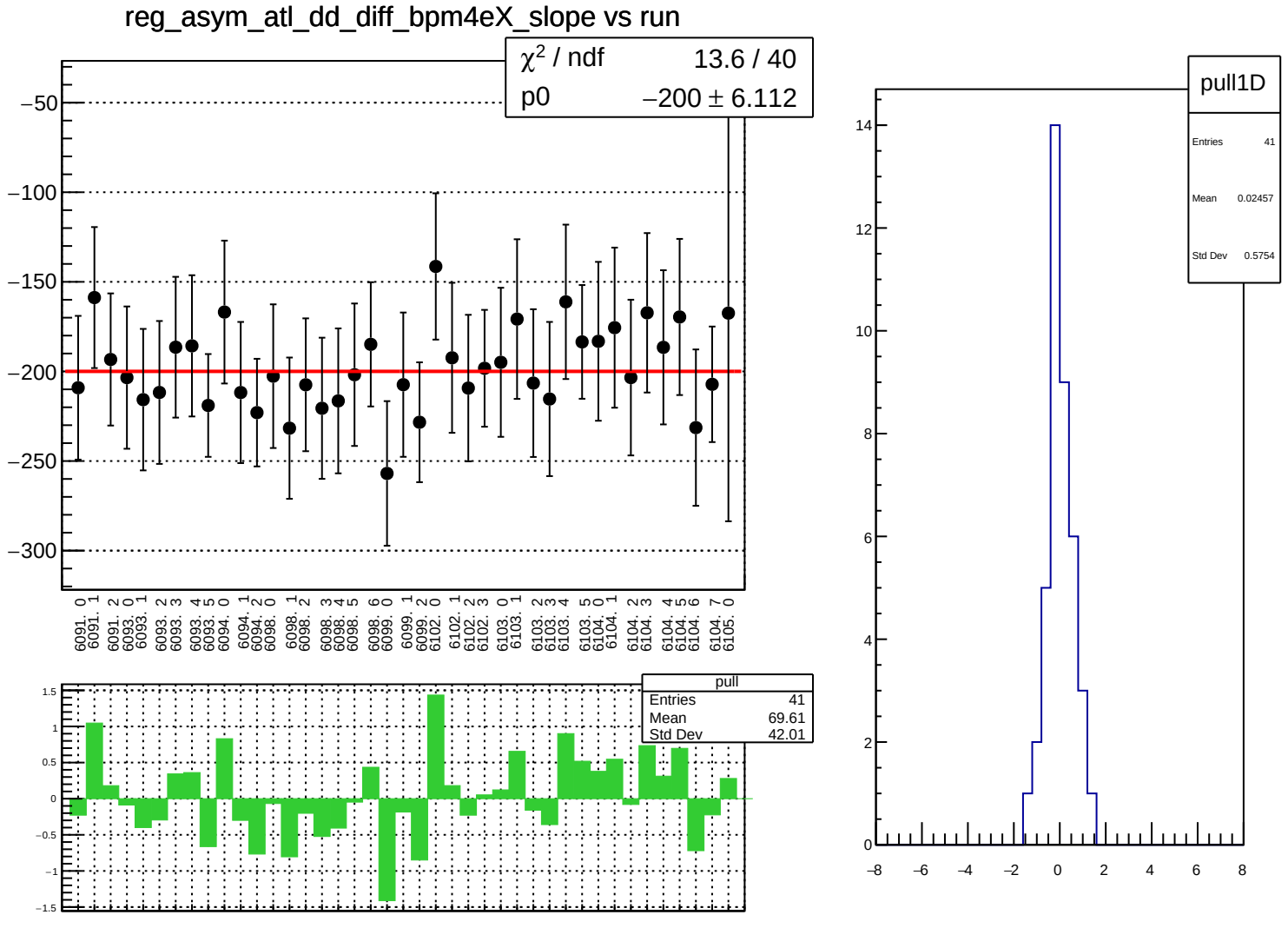

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 46.36 / 40
p0 −100.9 ± 0.3224
−95
−100
−105
−110
−115
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 1790
Std Dev 1770
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.004144
Std Dev 1.063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

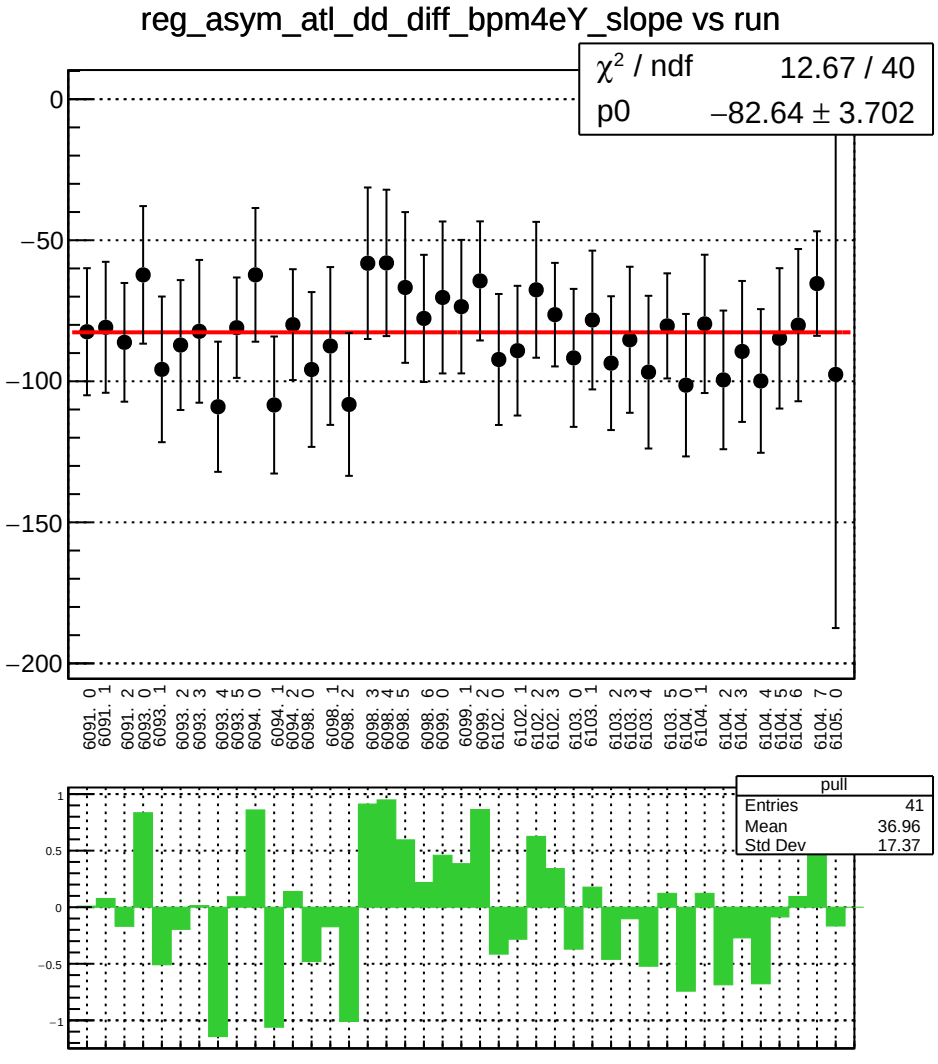

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.87 / 40
p0 197.7 ± 5.244
pull
Entries 41
Mean 60.85
Std Dev 32.28

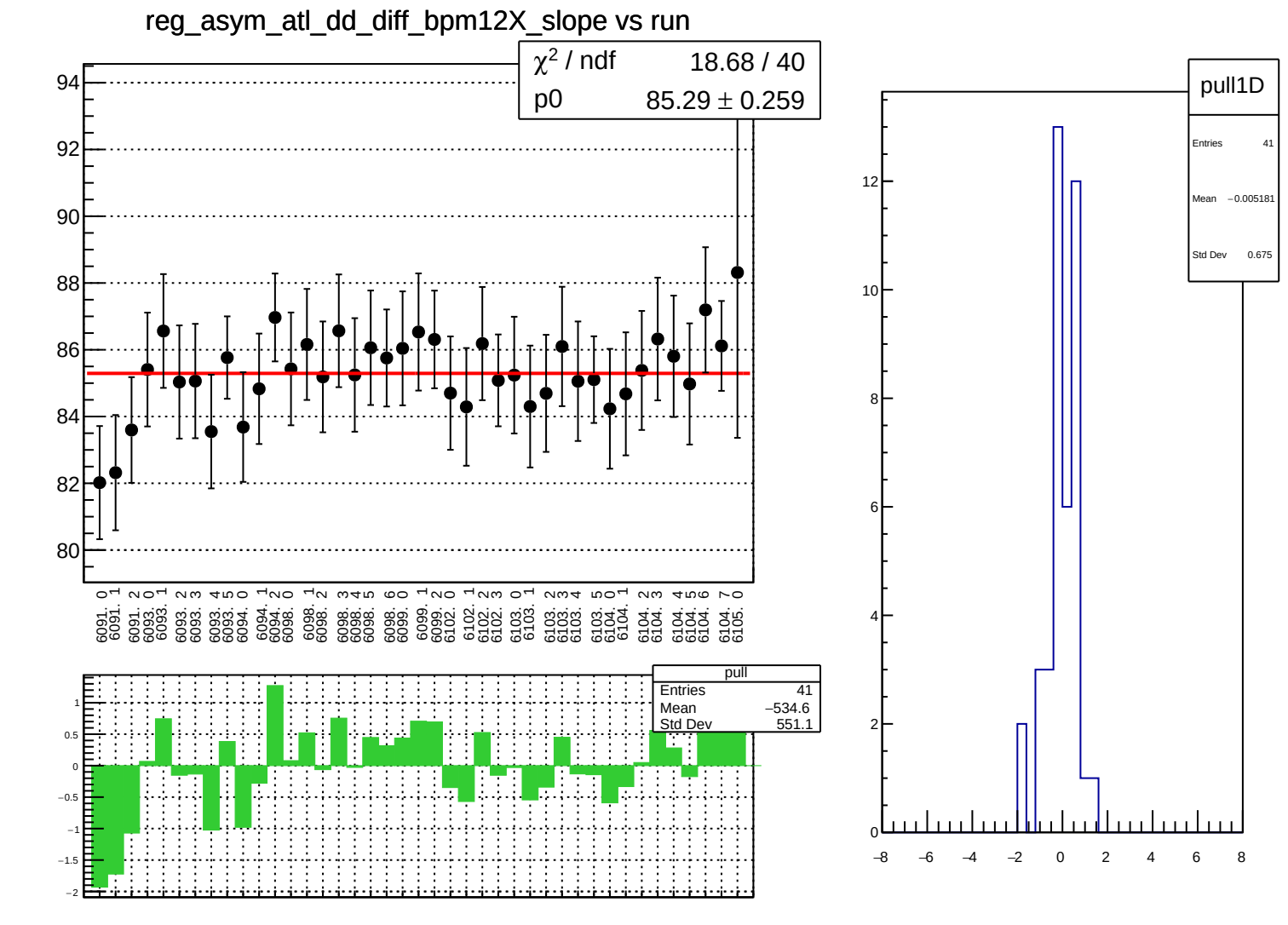

pull1D
Entries 41
Mean −0.027
Std Dev 0.5809

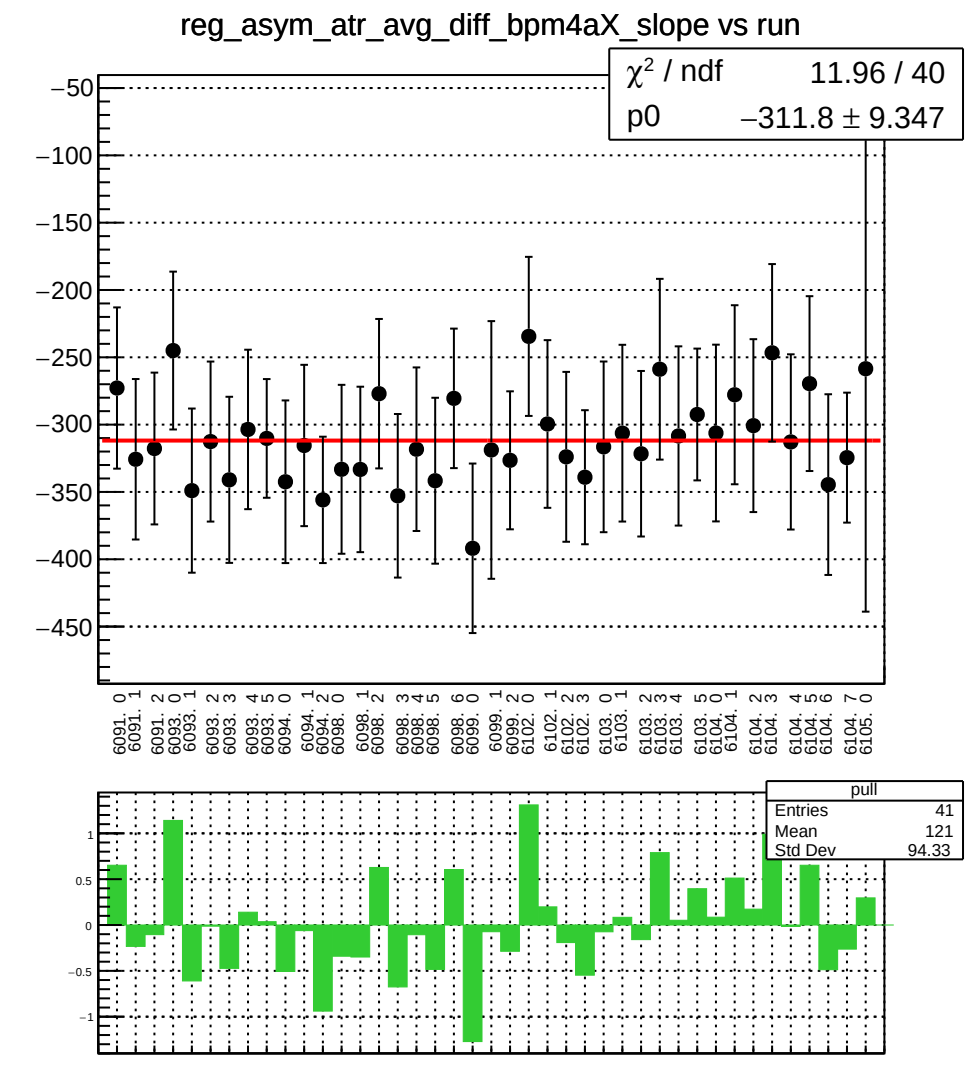

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.43 / 40
p0 20.04 ± 3.517
pull
Entries 41
Mean 81.03
Std Dev 56.14

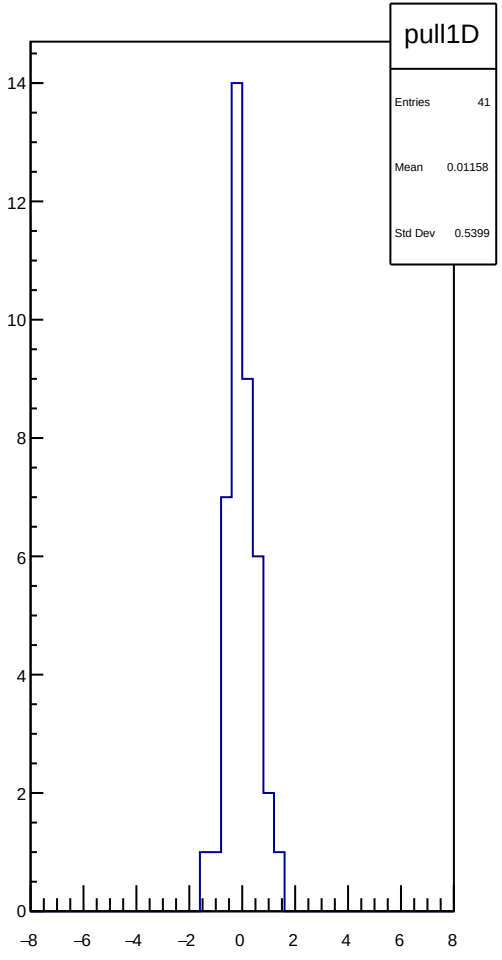

pull1D
Entries 41
Mean 0.01666
Std Dev 0.5721

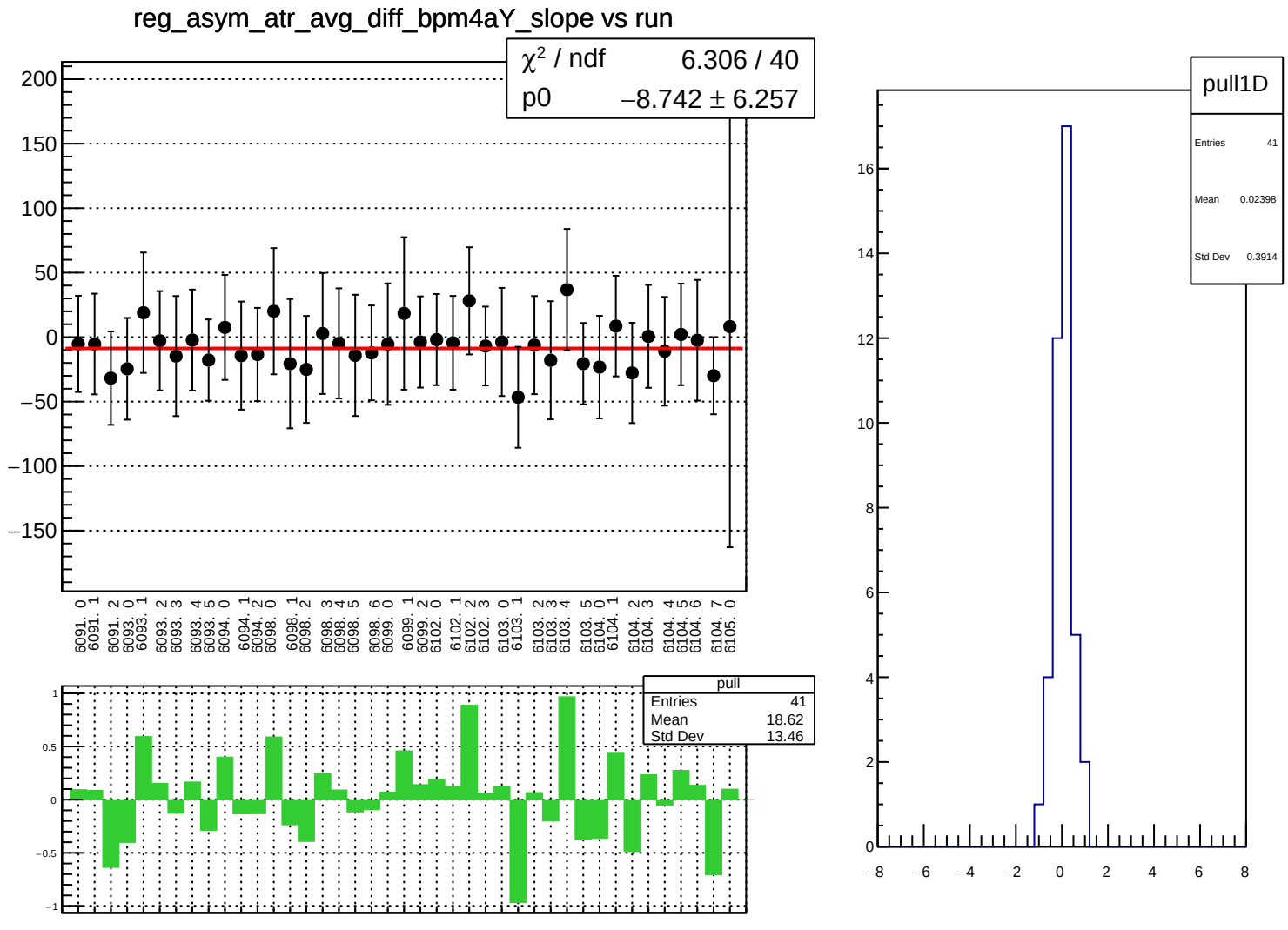

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.6 / 40
p0 −200 ± 6.112
−50
−100
−150
−200
−250
−300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 69.61
Std Dev 42.01
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02457
Std Dev 0.5754
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

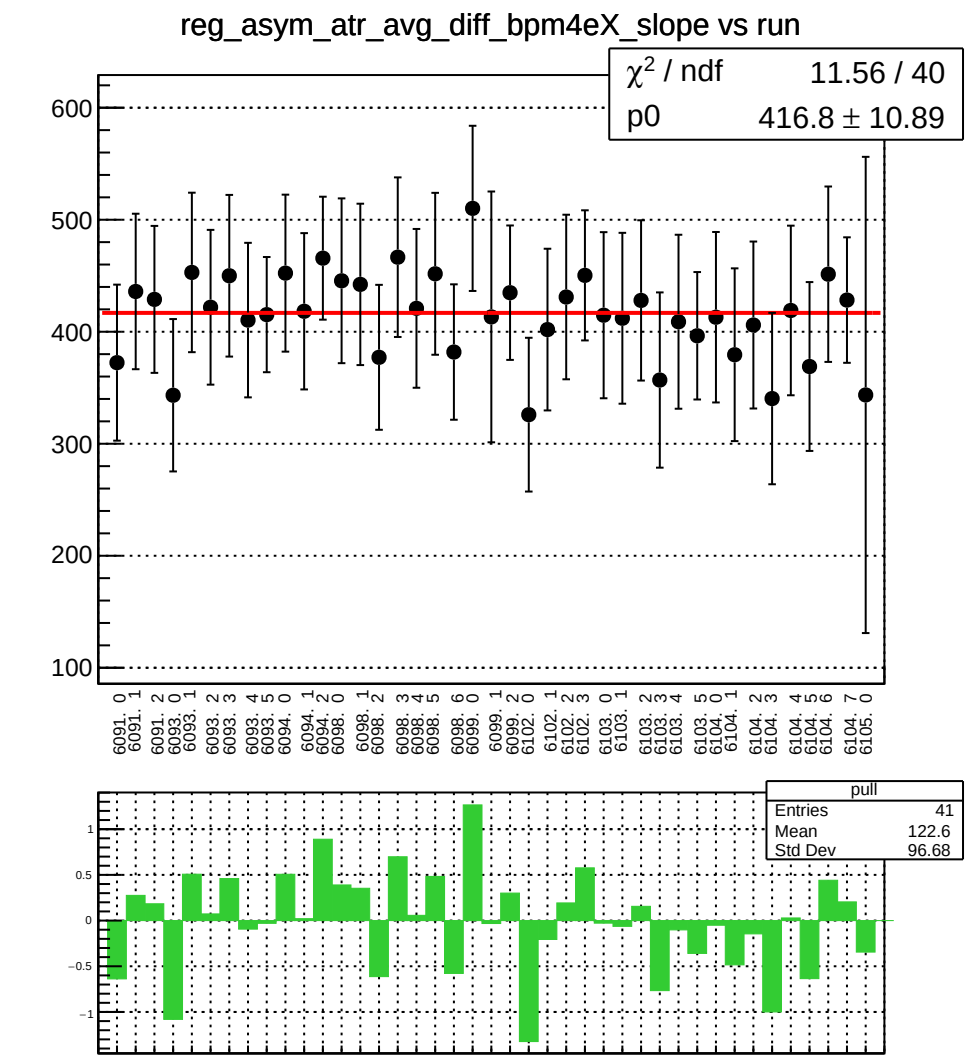

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.67 / 40
p0 −82.64 ± 3.702
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 36.96
Std Dev 17.37
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.01696
Std Dev 0.5556
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

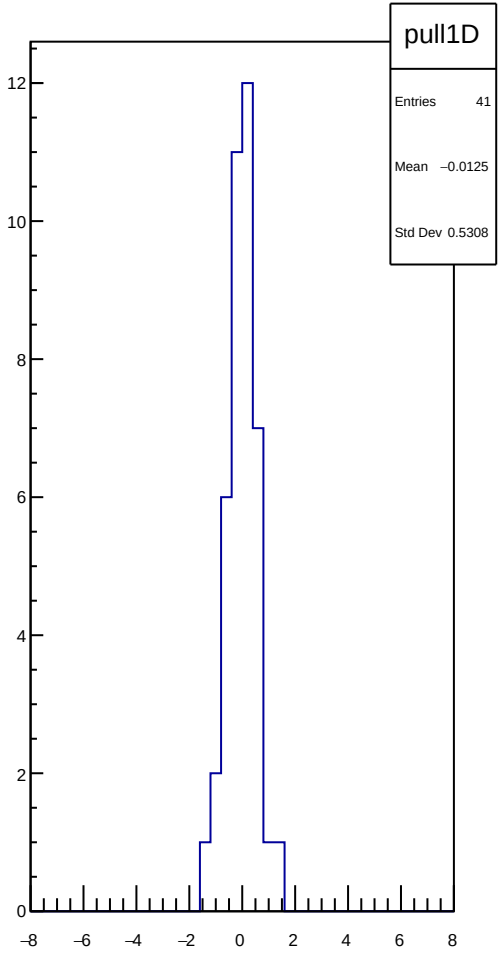

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 18.68 / 40
p0 85.29 ± 0.259
pull
Entries 41
Mean −534.6
Std Dev 551.1
pull1D
Entries 41
Mean −0.005181
Std Dev 0.675

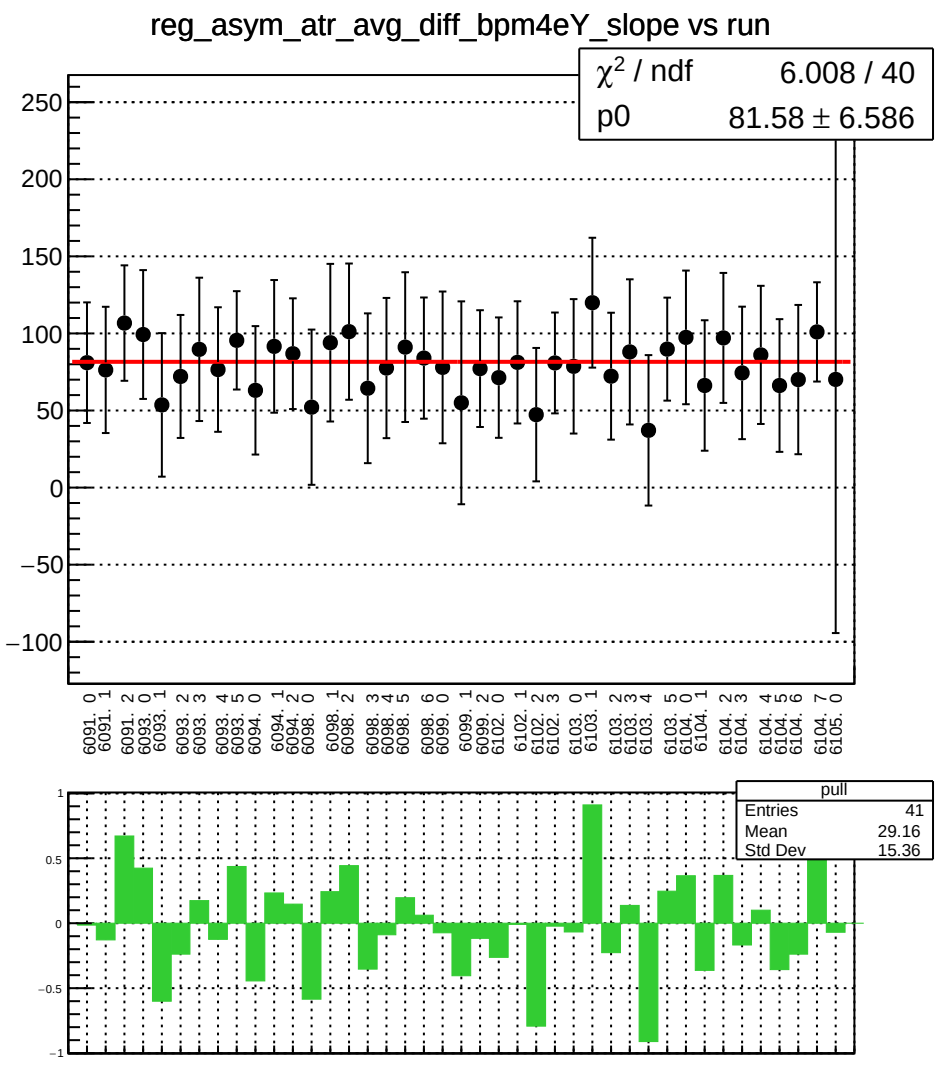

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.96 / 40
p0 −311.8 ± 9.347
pull
Entries 41
Mean 121
Std Dev 94.33

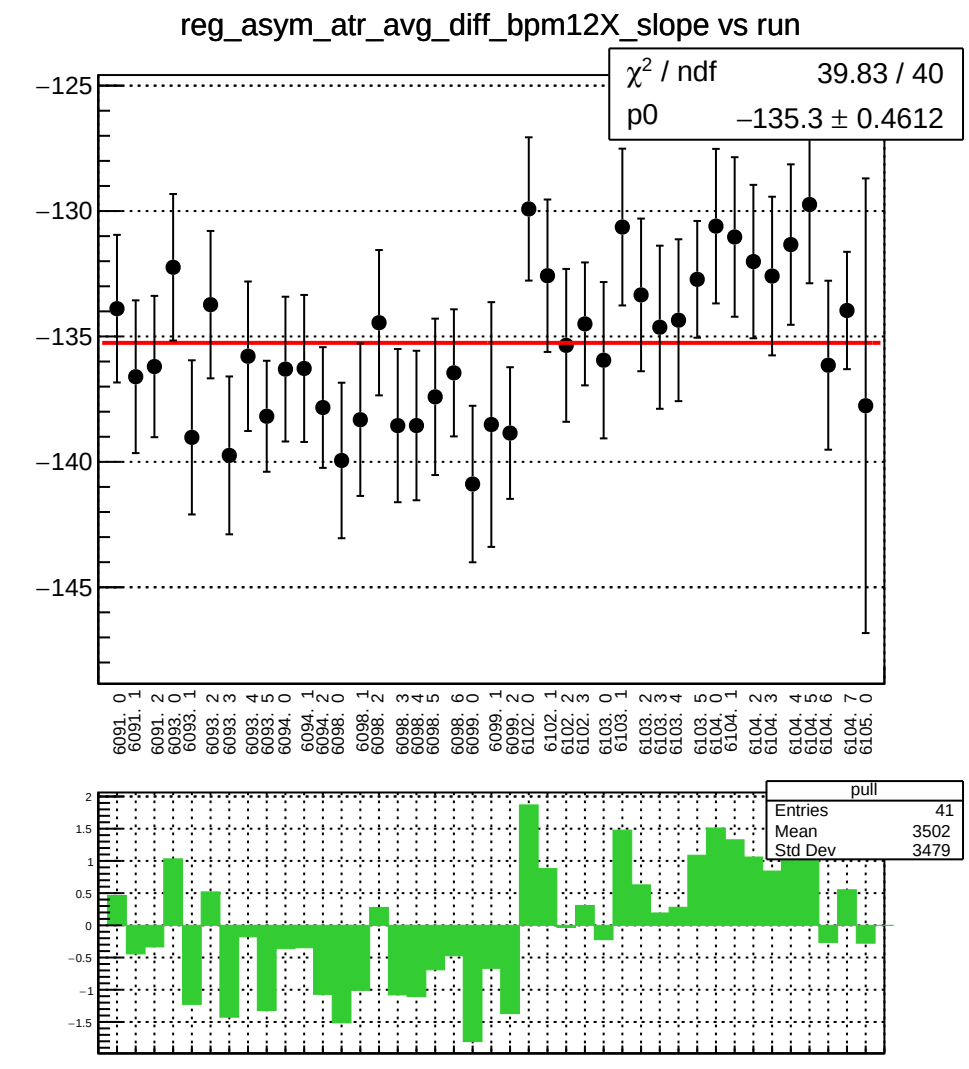

pull1D
Entries 41
Mean 0.01158
Std Dev 0.5399


reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.306 / 40
p0 −8.742 ± 6.257
pull
Entries 41
Mean 18.62
Std Dev 13.46
pull1D
Entries 41
Mean 0.02398
Std Dev 0.3914


reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.56 / 40
p0 416.8 ± 10.89
pull
Entries 41
Mean 122.6
Std Dev 96.68


pull1D
Entries 41
Mean −0.0125
Std Dev 0.5308


reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 6.008 / 40
p0 81.58 ± 6.586
250
200
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 29.16
Std Dev 15.36
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.02185
Std Dev 0.3822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 39.83 / 40
p0 −135.3 ± 0.4612
−125
−130
−135
−140
−145
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
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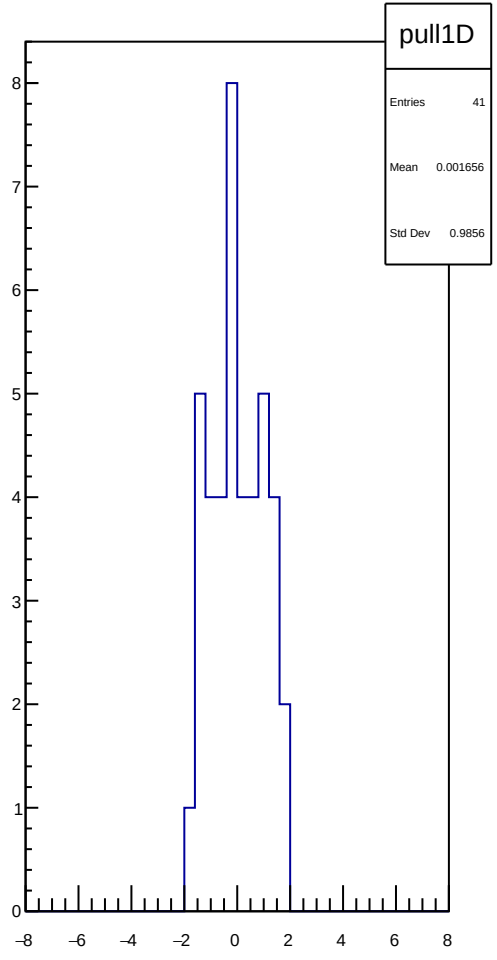
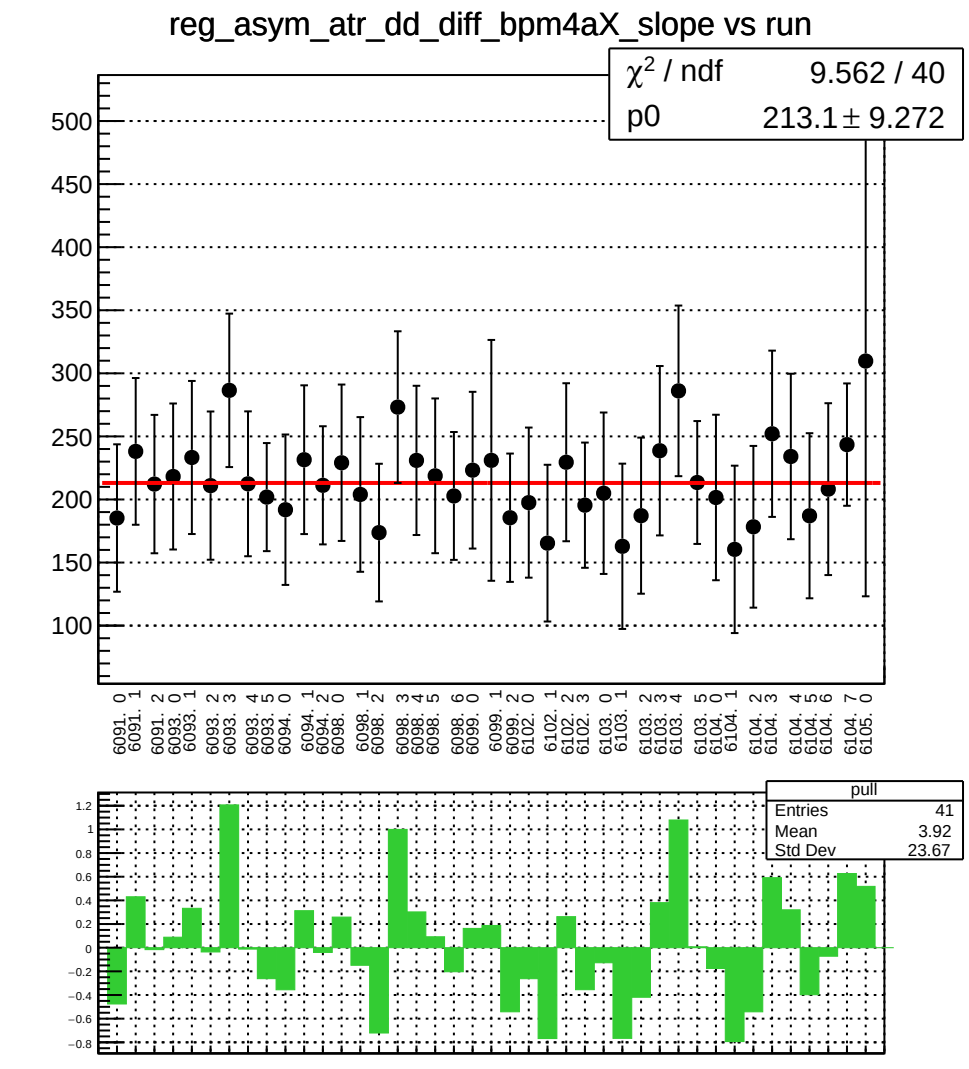
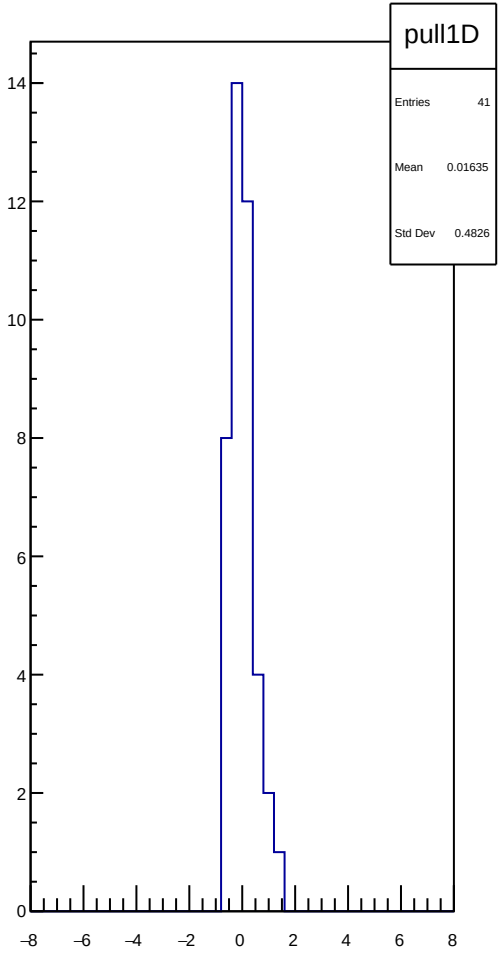
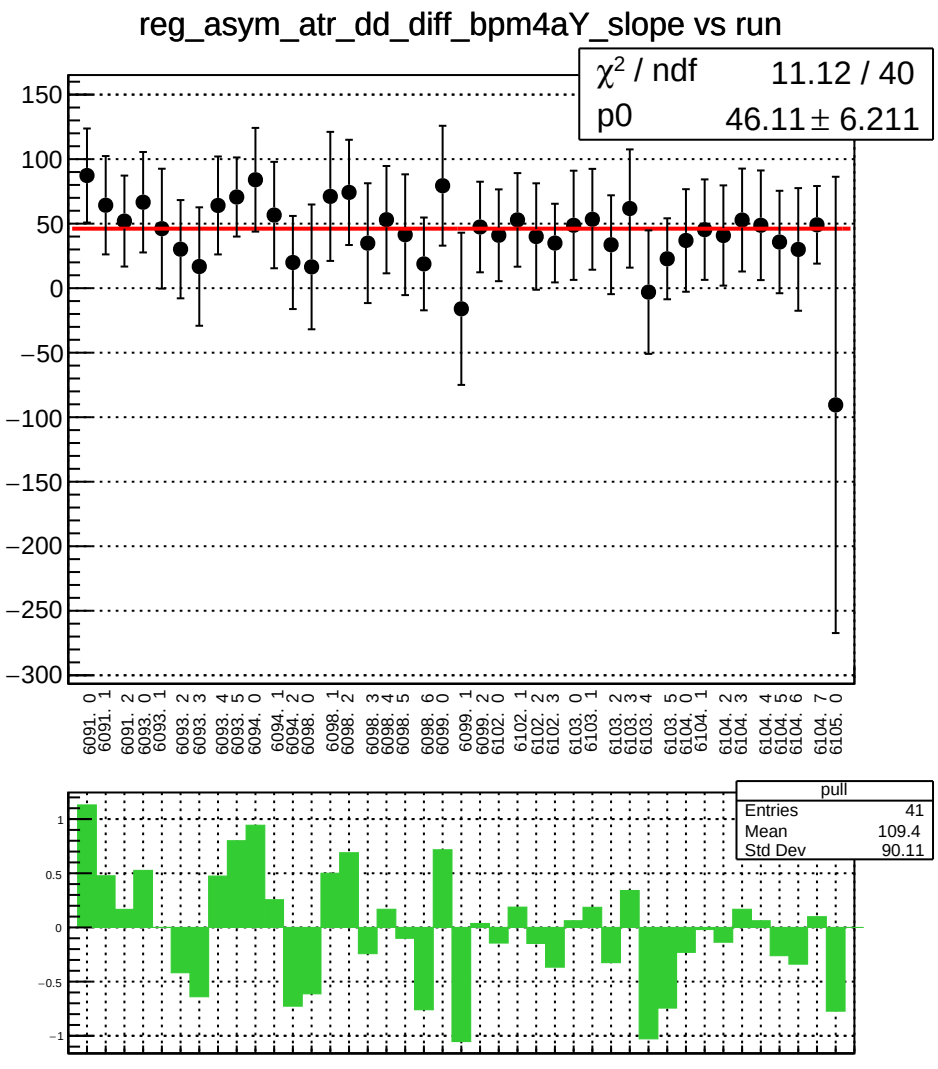
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 3502
Std Dev 3479
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.001656
Std Dev 0.9856
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.562 / 40
p0 213.1 ± 9.272
pull
Entries 41
Mean 3.92
Std Dev 23.67


pull1D
Entries 41
Mean 0.01635
Std Dev 0.4826


reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.12 / 40
p0 46.11 ± 6.211
150
100
50
0
−50
−100
−150
−200
−250
−300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
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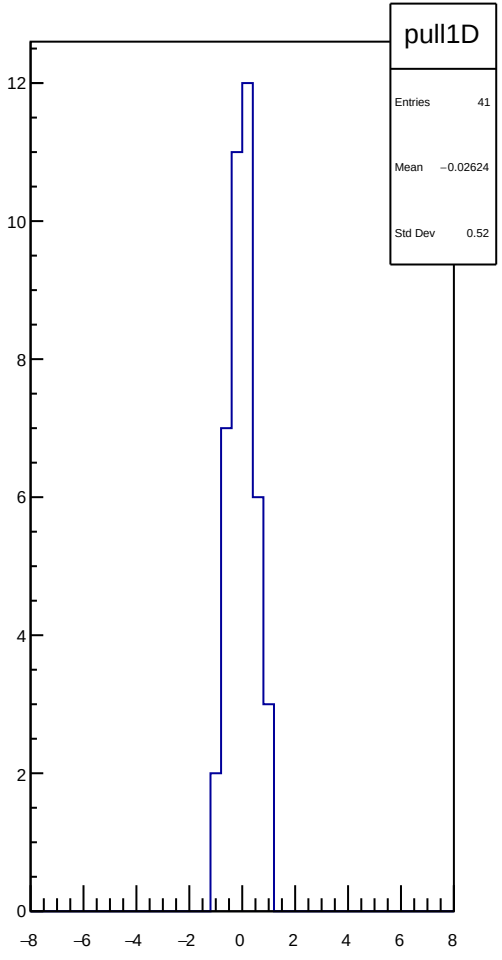
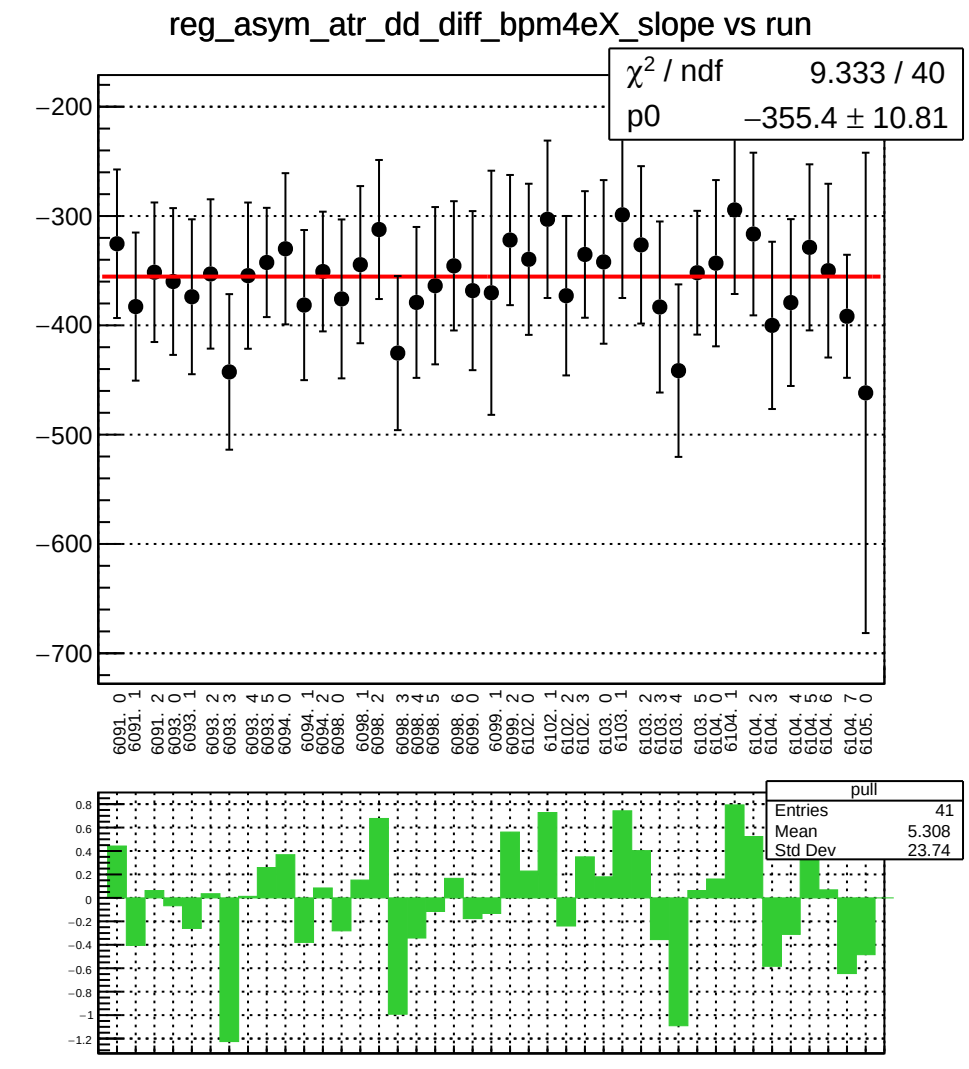
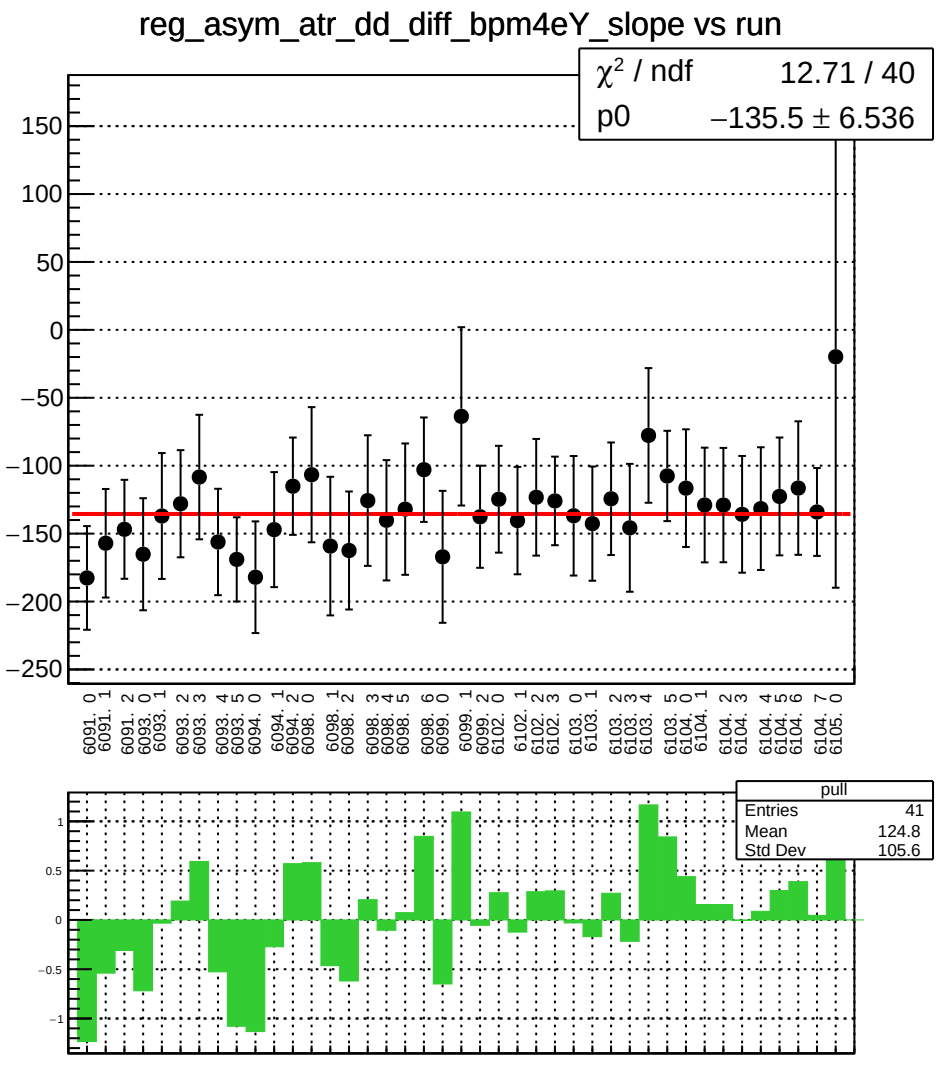
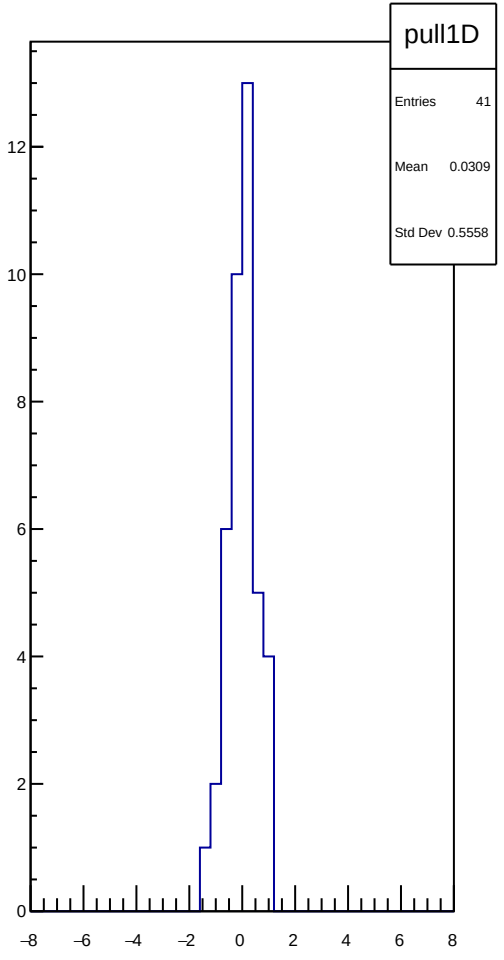
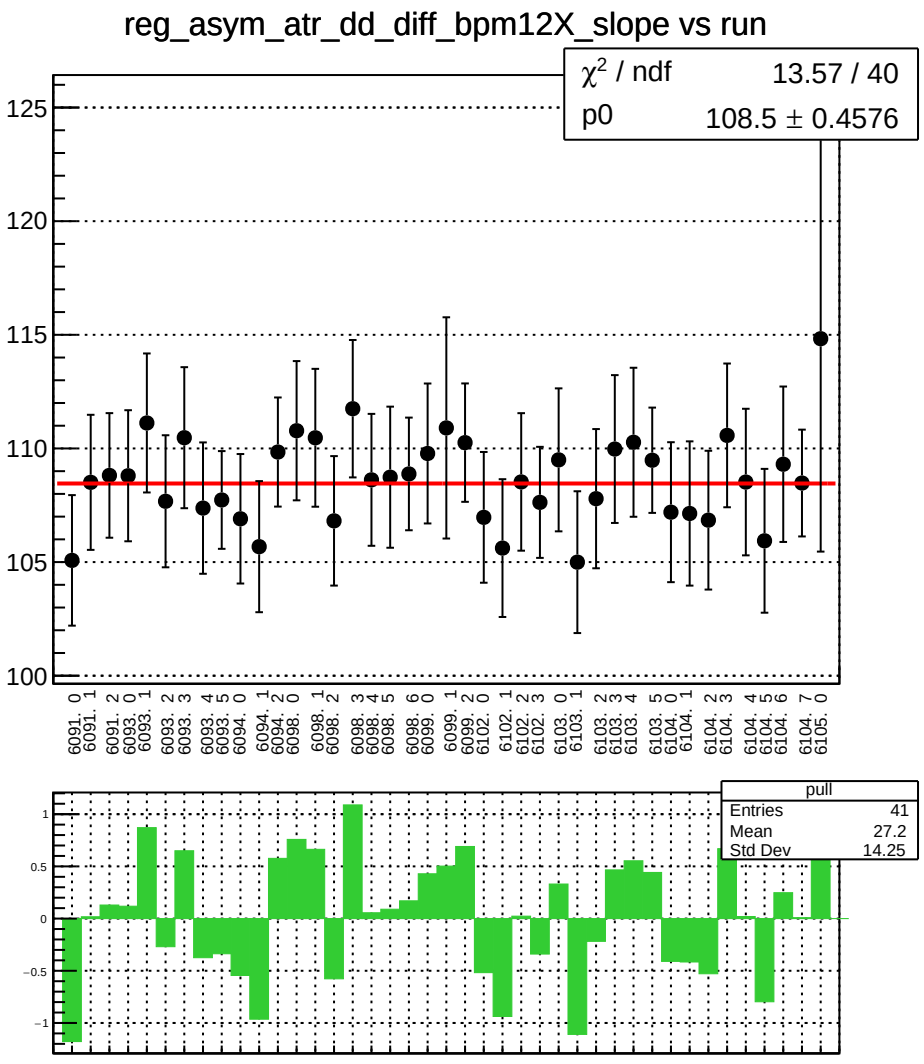
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 109.4
Std Dev 90.11
1
0.5
0
−0.5
−1

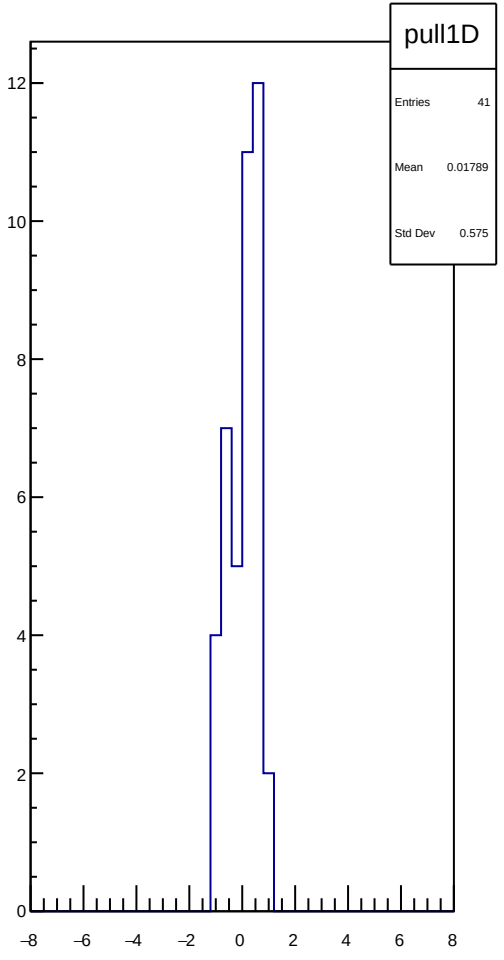

pull1D
Entries 41
Mean −0.02624
Std Dev 0.52
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

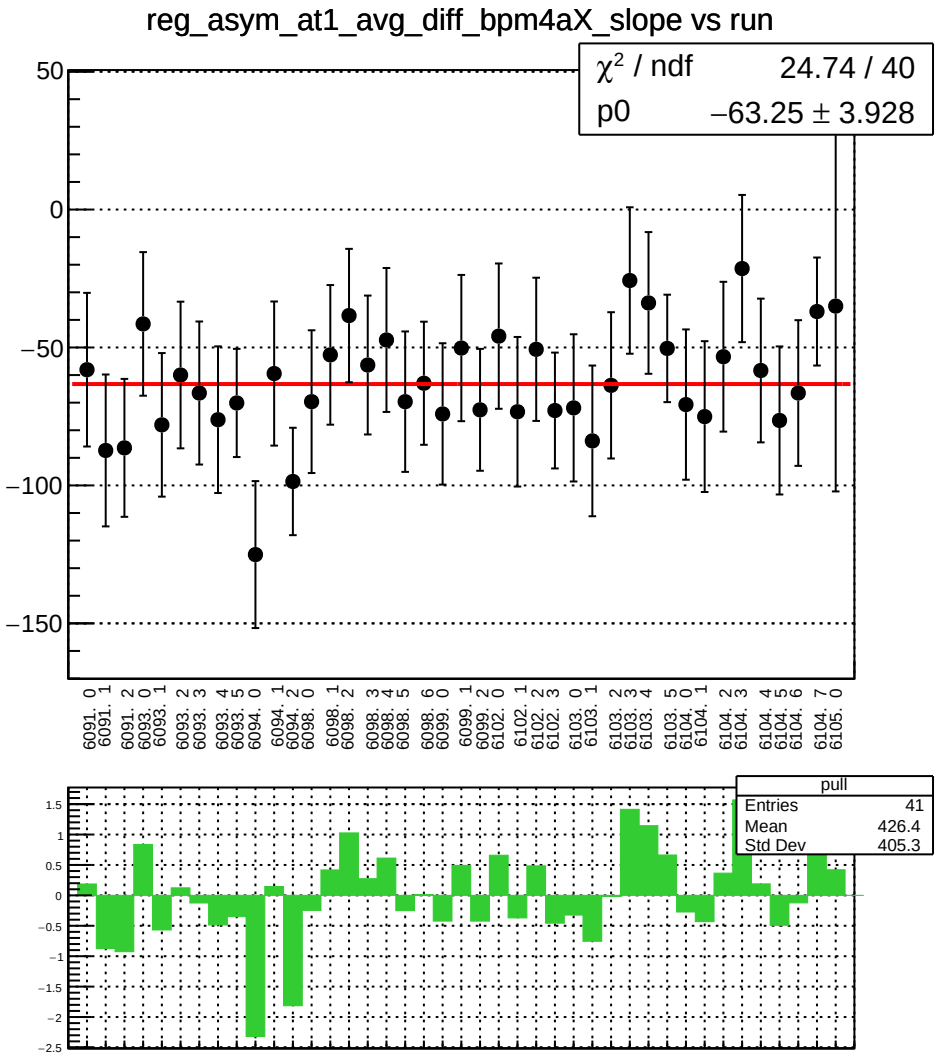

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.333 / 40
p0 −355.4 ± 10.81
−200
−300
−400
−500
−600
−700
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 5.308
Std Dev 23.74
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 41
Mean −0.01639
Std Dev 0.4768
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

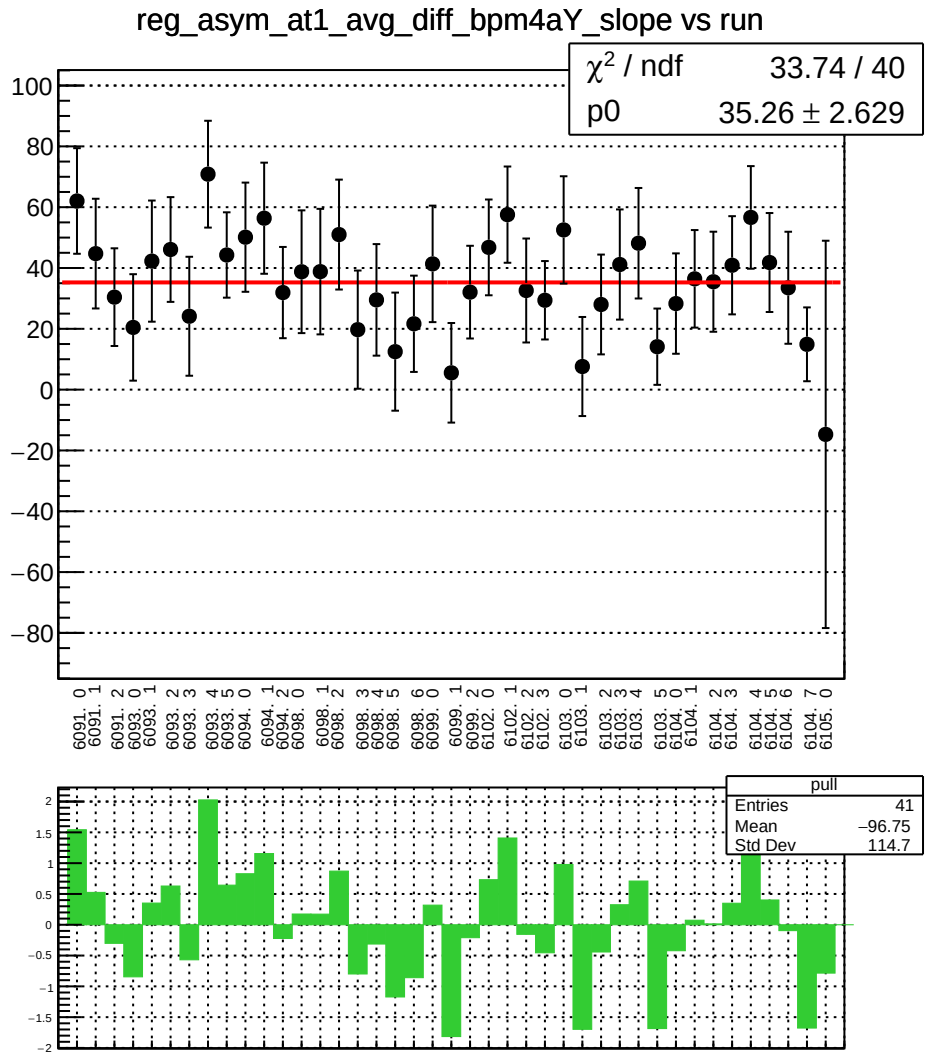

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.71 / 40
p0 −135.5 ± 6.536
150
100
50
0
−50
−100
−150
−200
−250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 124.8
Std Dev 105.6
1
0.5
0
−0.5
−1

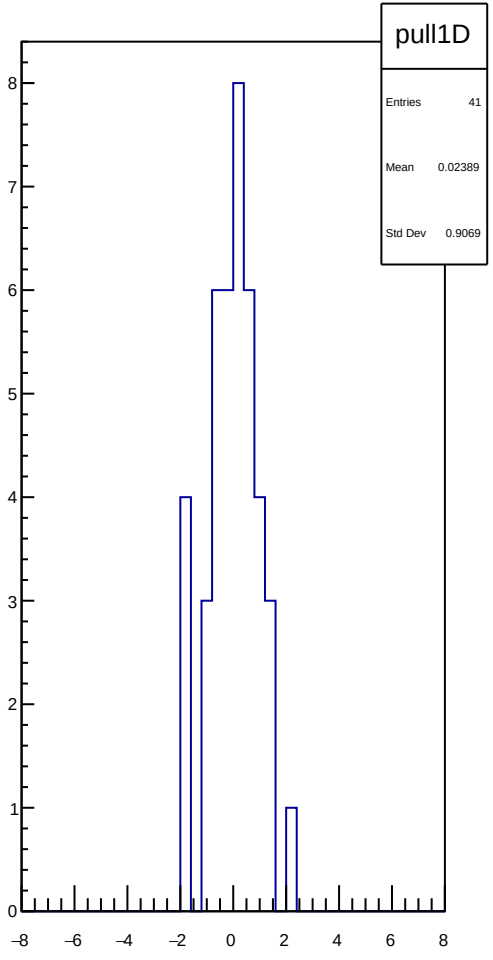

pull1D
Entries 41
Mean 0.0309
Std Dev 0.5558
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

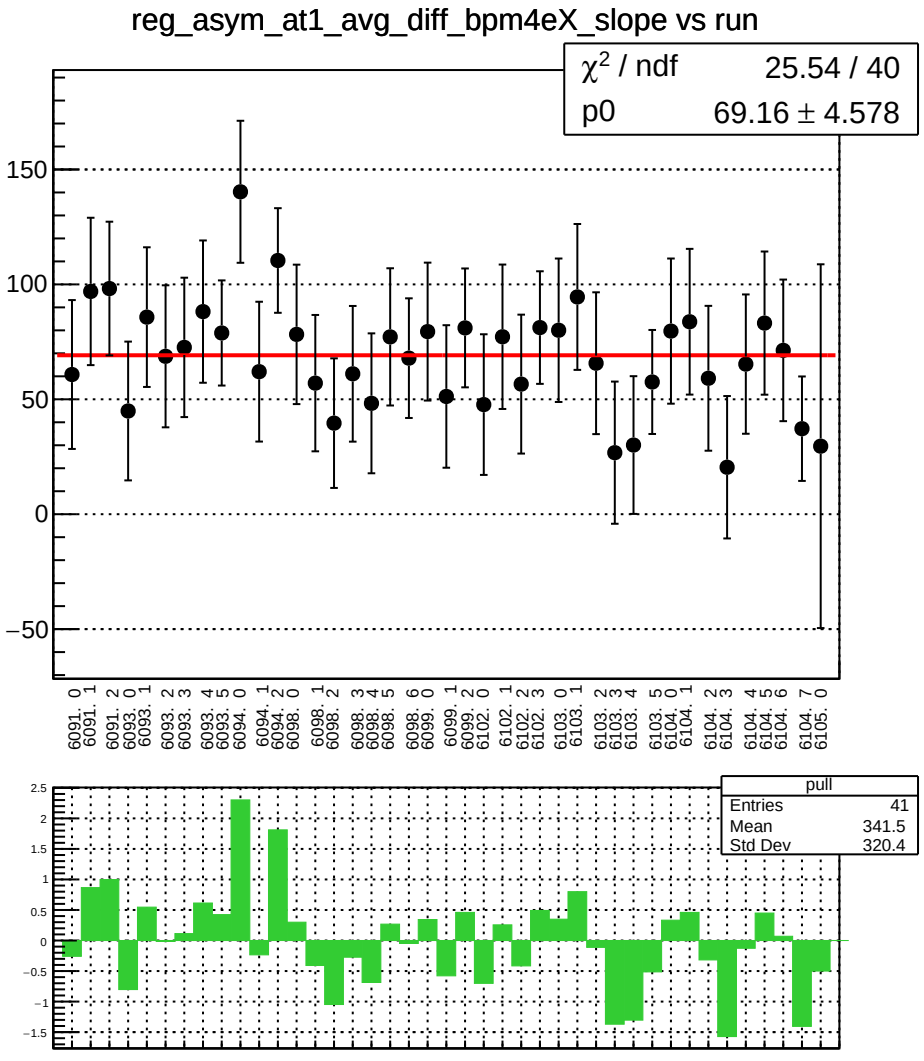

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 13.57 / 40
p0 108.5 ± 0.4576
125
120
115
110
105
100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 27.2
Std Dev 14.25
1
0.5
0
−0.5
−1

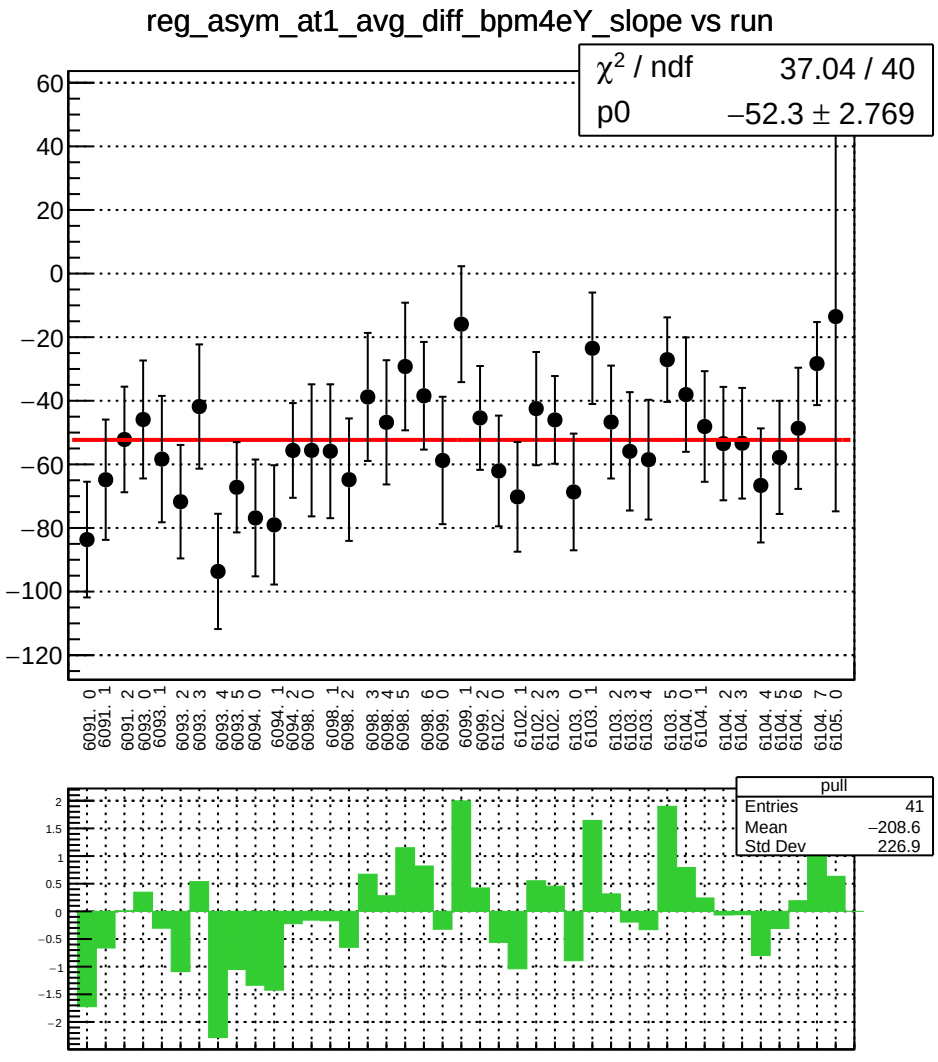

pull1D
Entries 41
Mean 0.01789
Std Dev 0.575
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

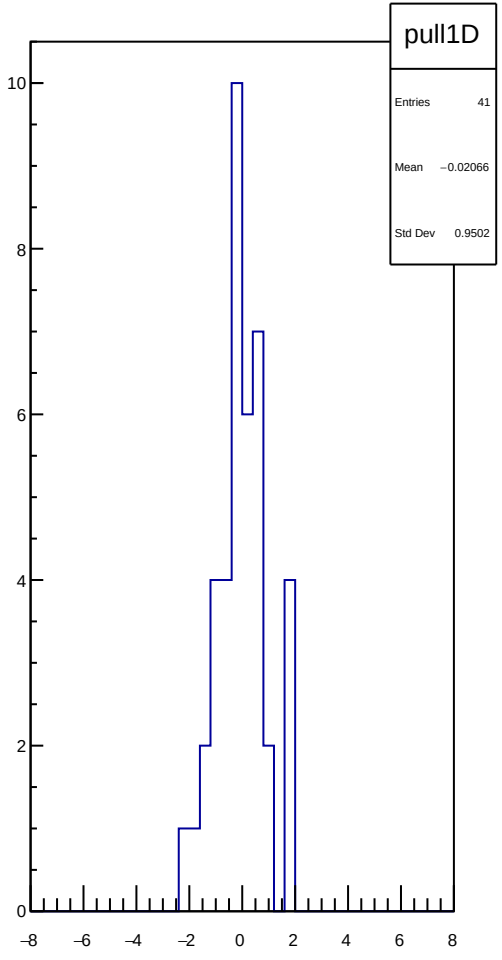

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.74 / 40
p0 −63.25 ± 3.928
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 426.4
Std Dev 405.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.008118
Std Dev 0.7768
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

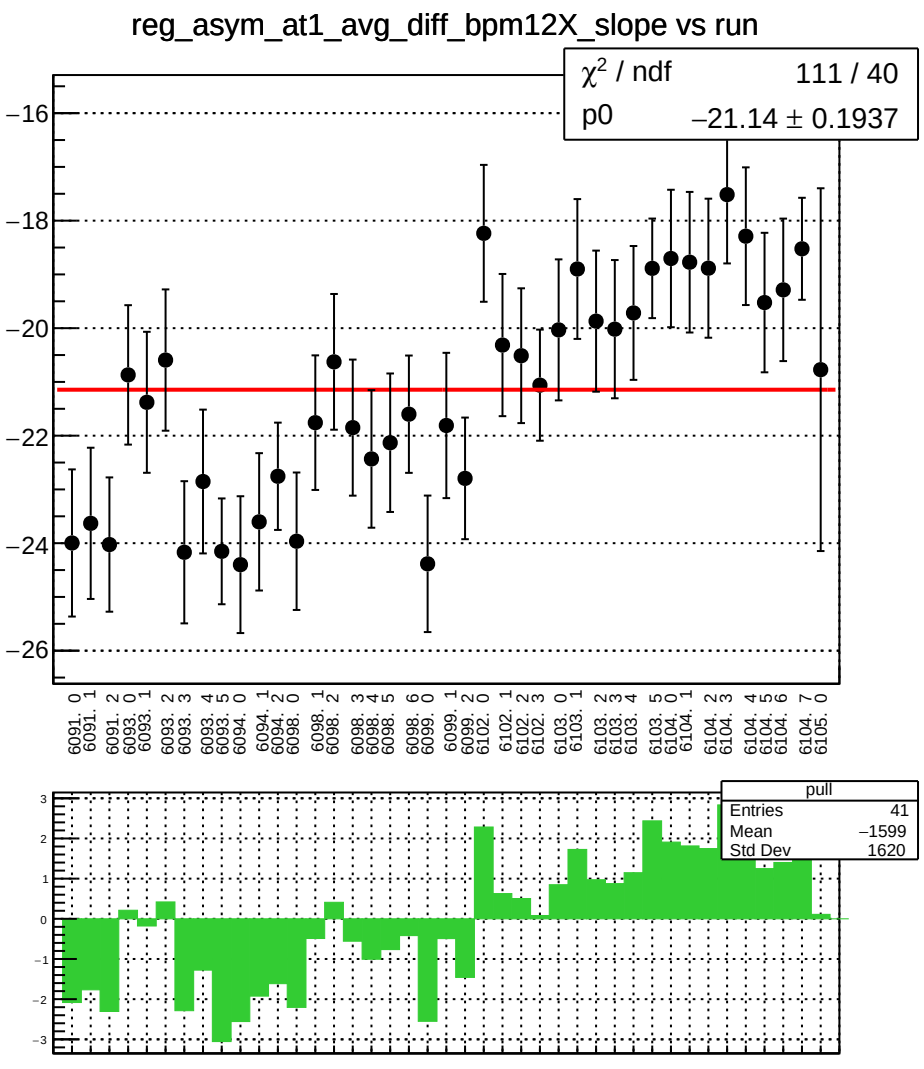

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.74 / 40
p0 35.26 ± 2.629
pull
Entries 41
Mean −96.75
Std Dev 114.7

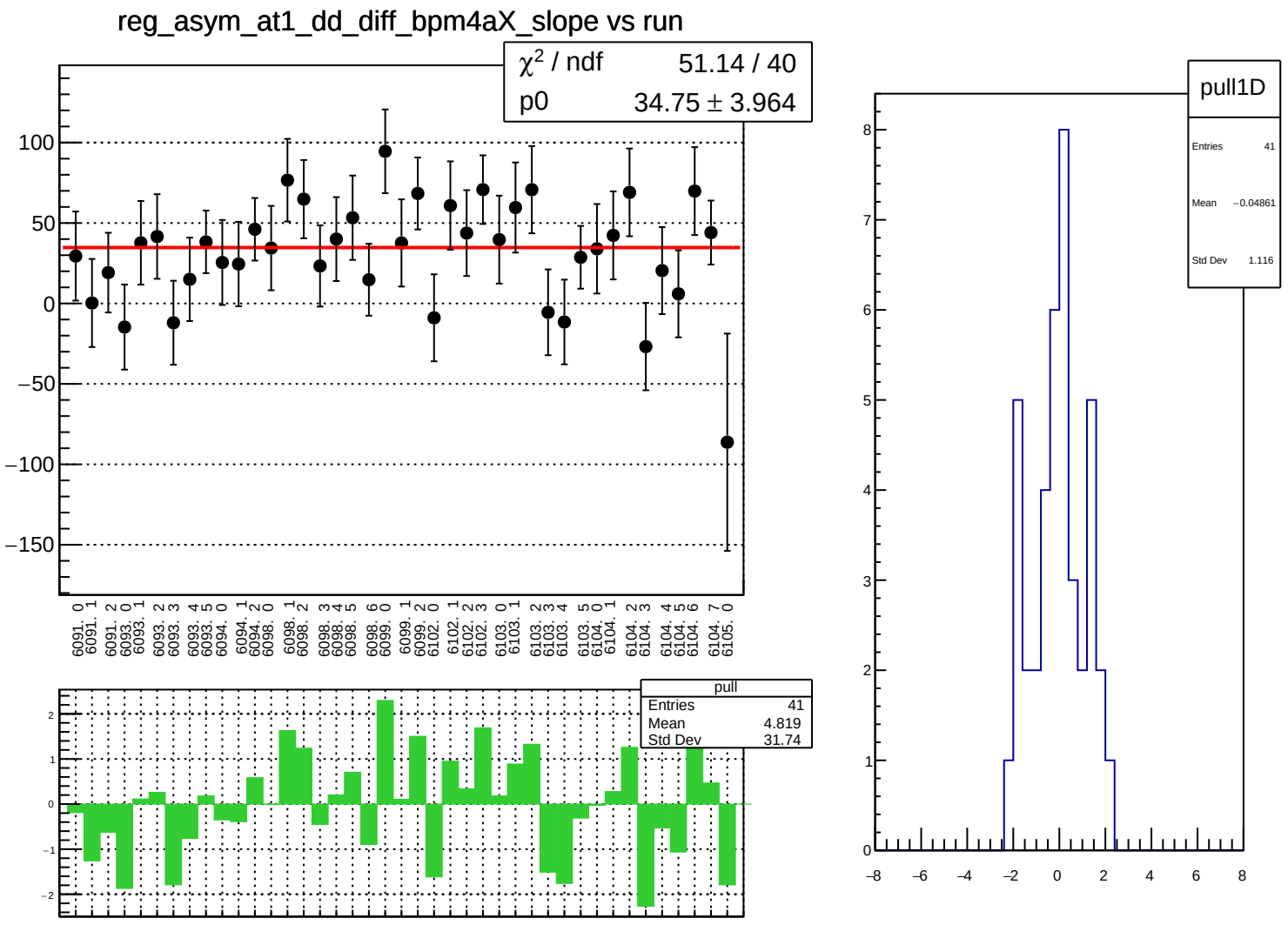

pull1D
Entries 41
Mean 0.02389
Std Dev 0.9069

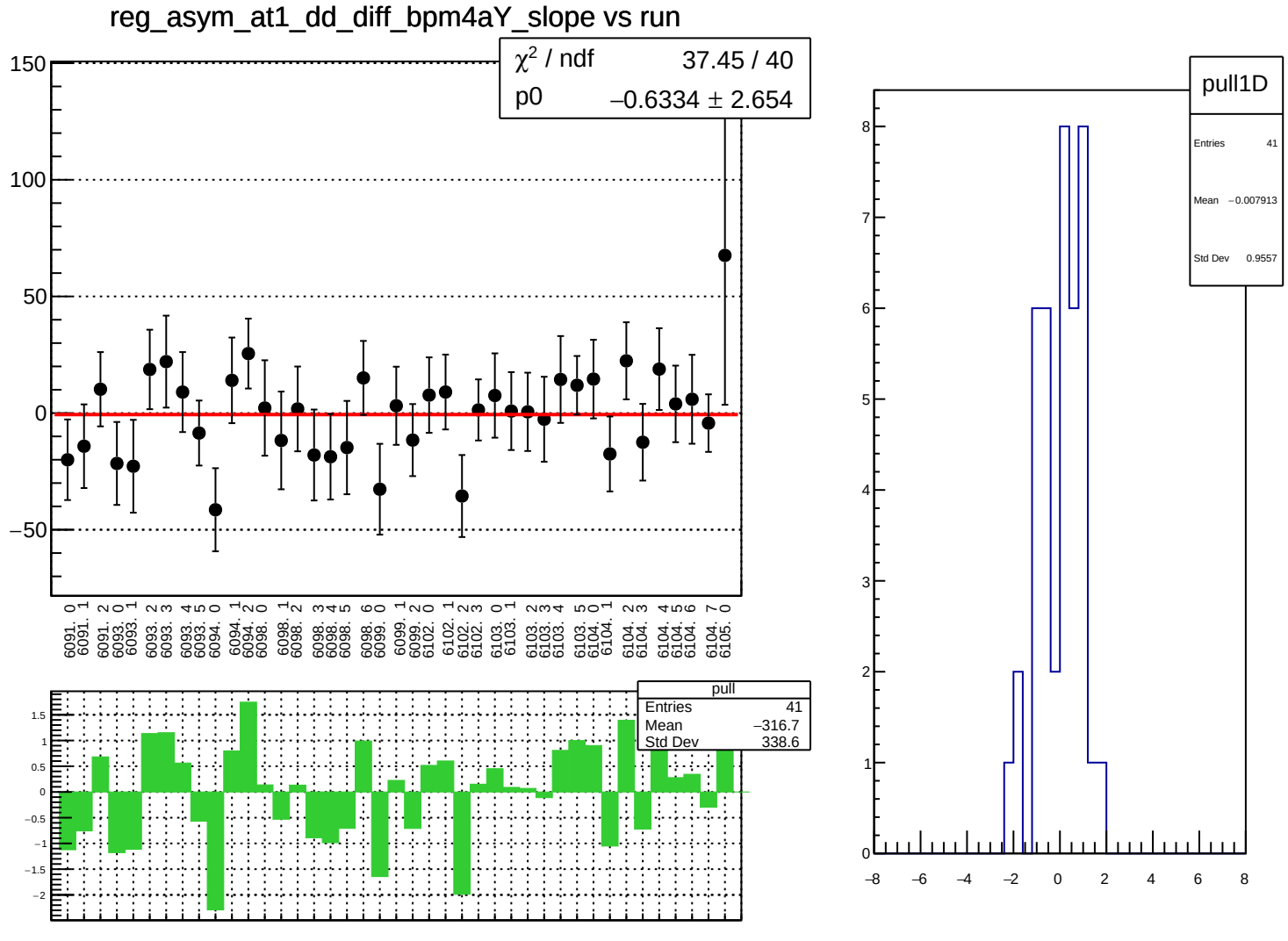

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 25.54 / 40
p0 69.16 ± 4.578
150
100
50
0
−50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 341.5
Std Dev 320.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01062
Std Dev 0.7891
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

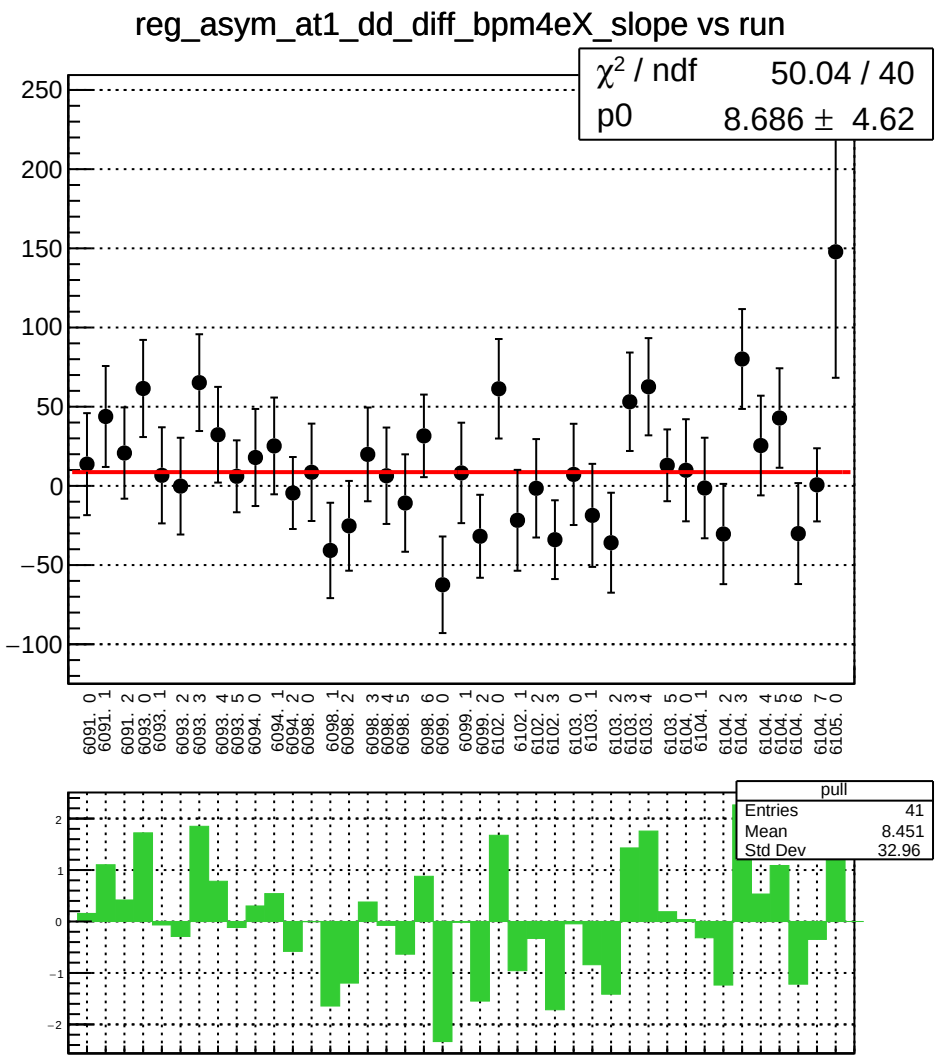

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.04 / 40
p0 −52.3 ± 2.769
pull
Entries 41
Mean −208.6
Std Dev 226.9

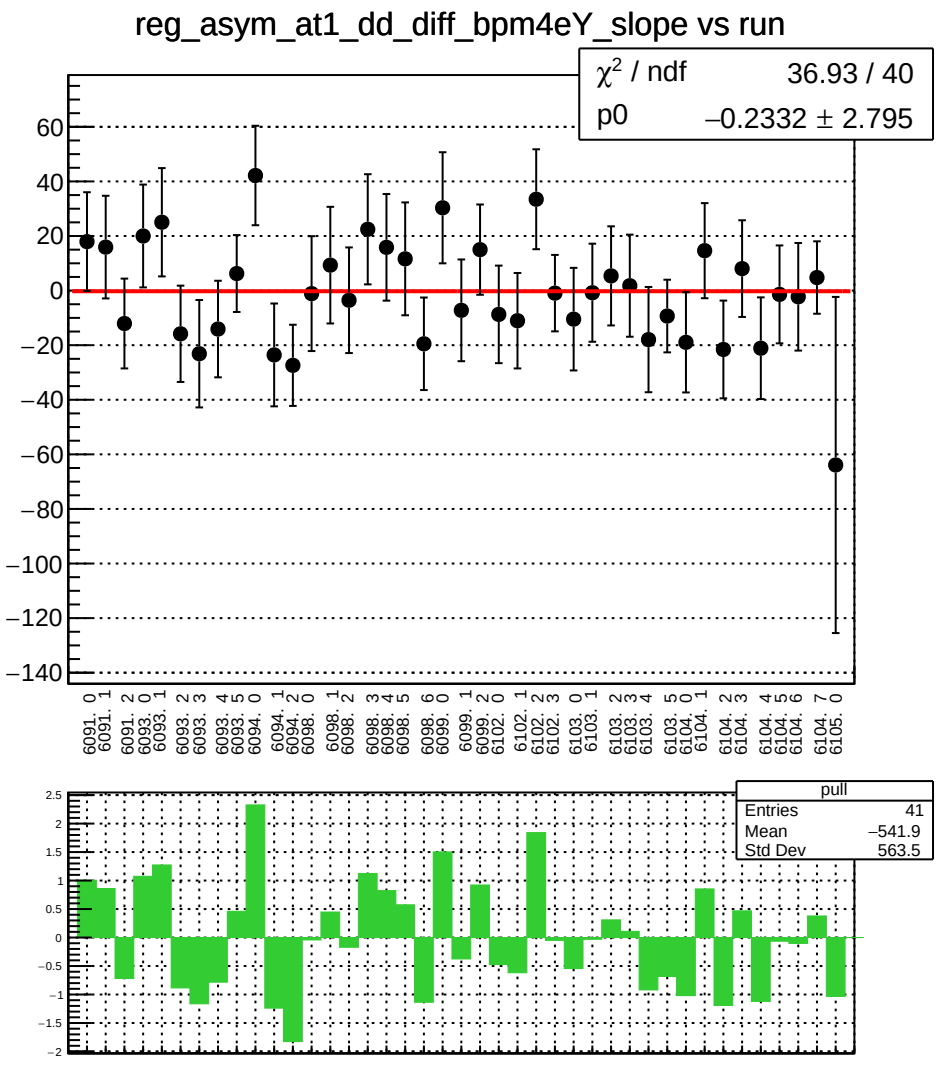

pull1D
Entries 41
Mean −0.02066
Std Dev 0.9502

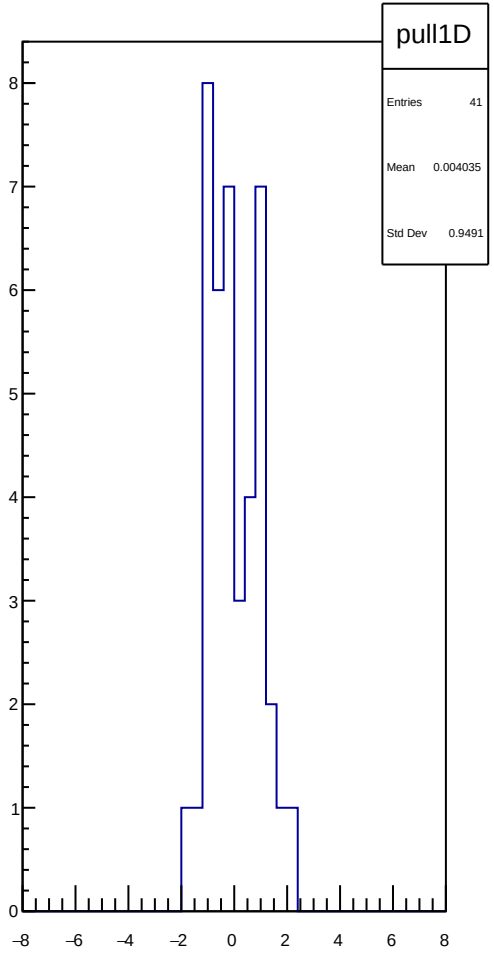

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 111 / 40
p0 −21.14 ± 0.1937
−16
−18
−20
−22
−24
−26
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1599
Std Dev 1620
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.009288
Std Dev 1.646
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

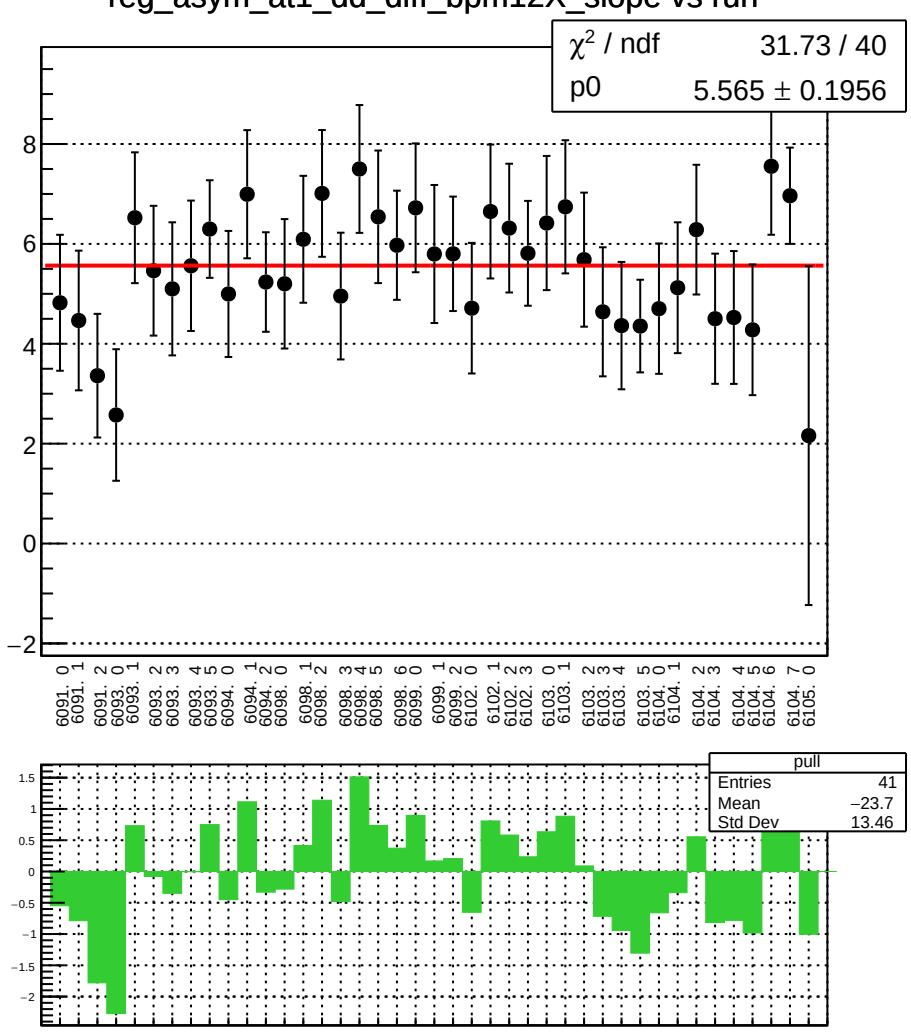

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 51.14 / 40
p0 34.75 ± 3.964
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 4.819
Std Dev 31.74
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.04861
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

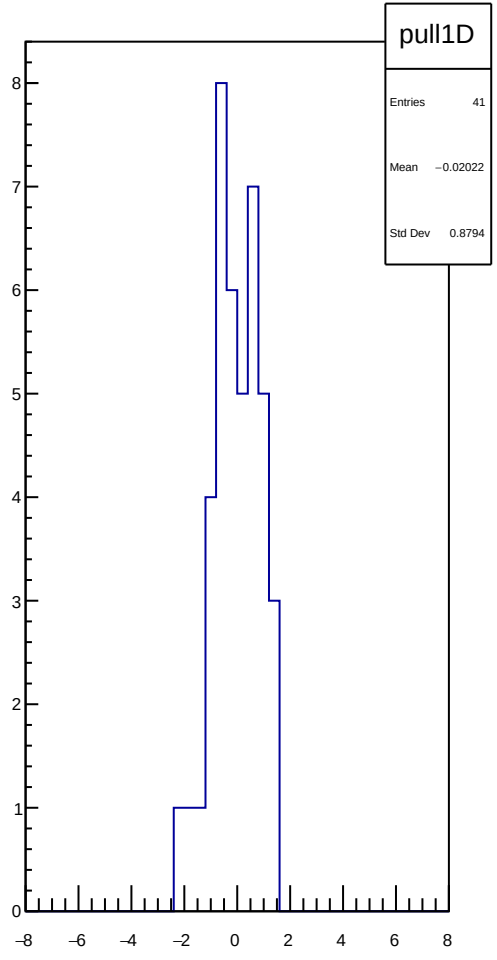

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.45 / 40
p0 −0.6334 ± 2.654
150
100
50
0
−50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −316.7
Std Dev 338.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.007913
Std Dev 0.9557
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

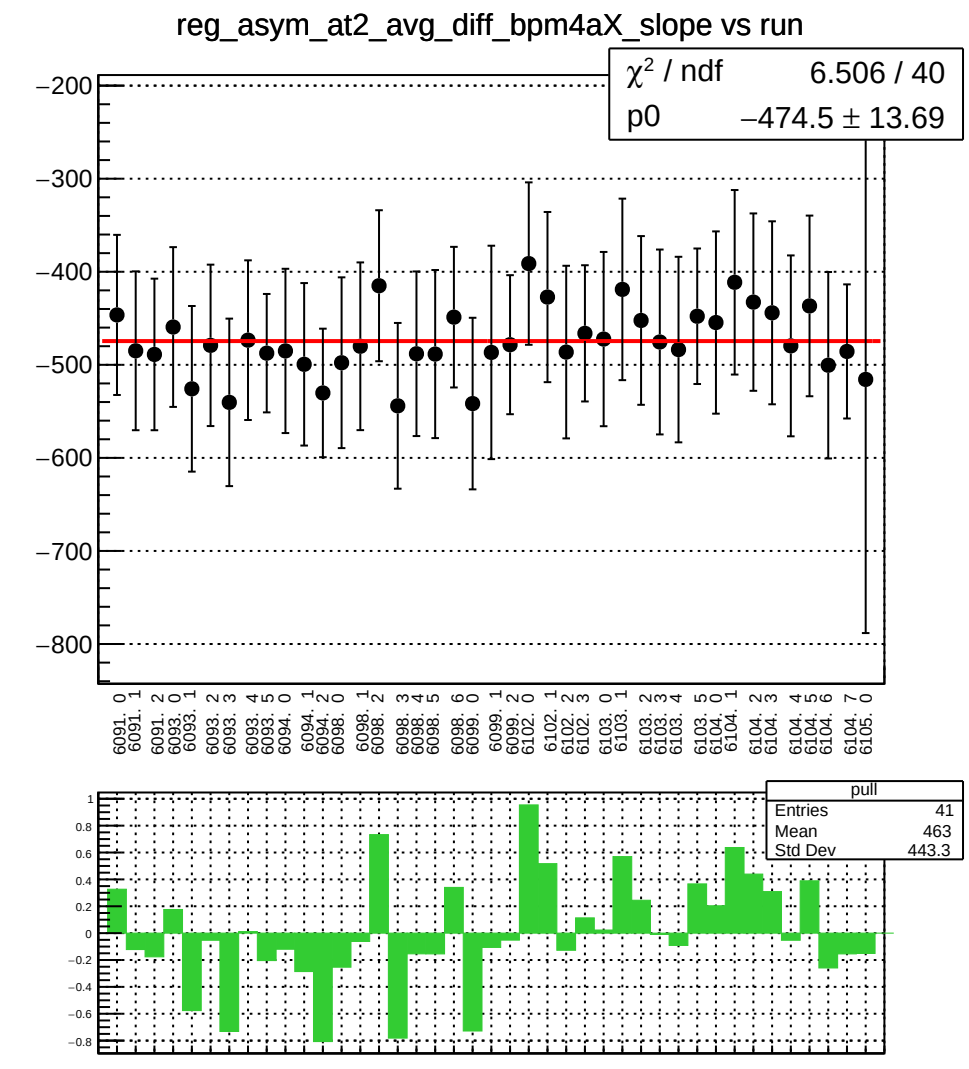

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.04 / 40
p0 8.686 ± 4.62
250
200
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 8.451
Std Dev 32.96
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.04738
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

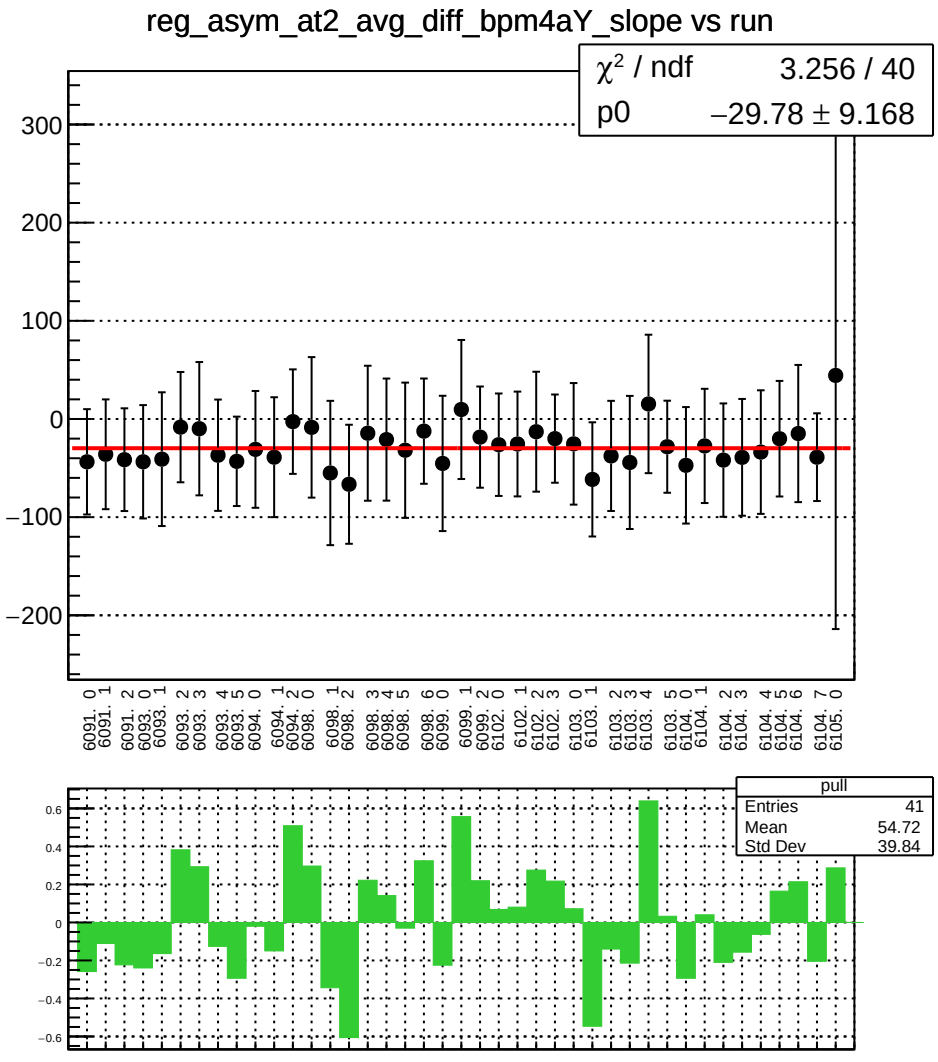

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.93 / 40
p0 –0.2332 ± 2.795
pull
Entries 41
Mean –541.9
Std Dev 563.5

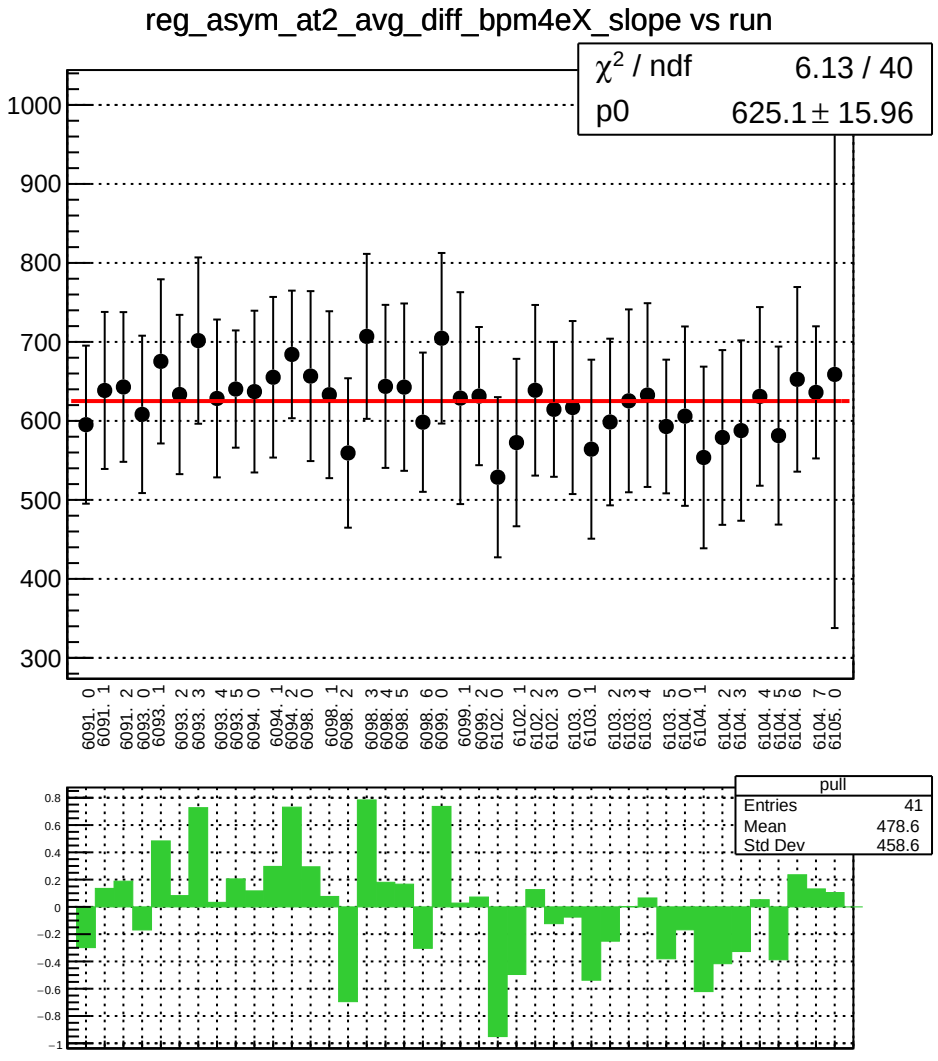

pull1D
Entries 41
Mean 0.004035
Std Dev 0.9491

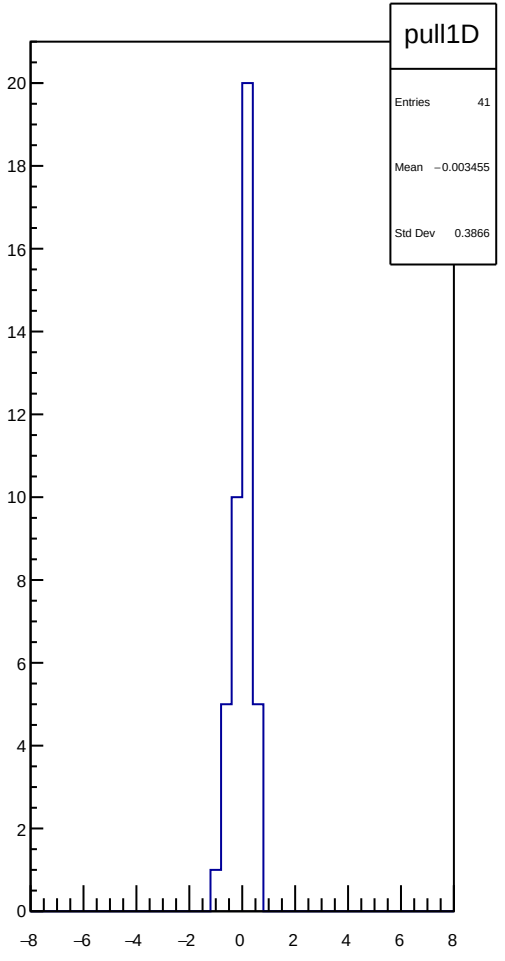

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 31.73 / 40
p0 5.565 ± 0.1956
pull
Entries 41
Mean −23.7
Std Dev 13.46

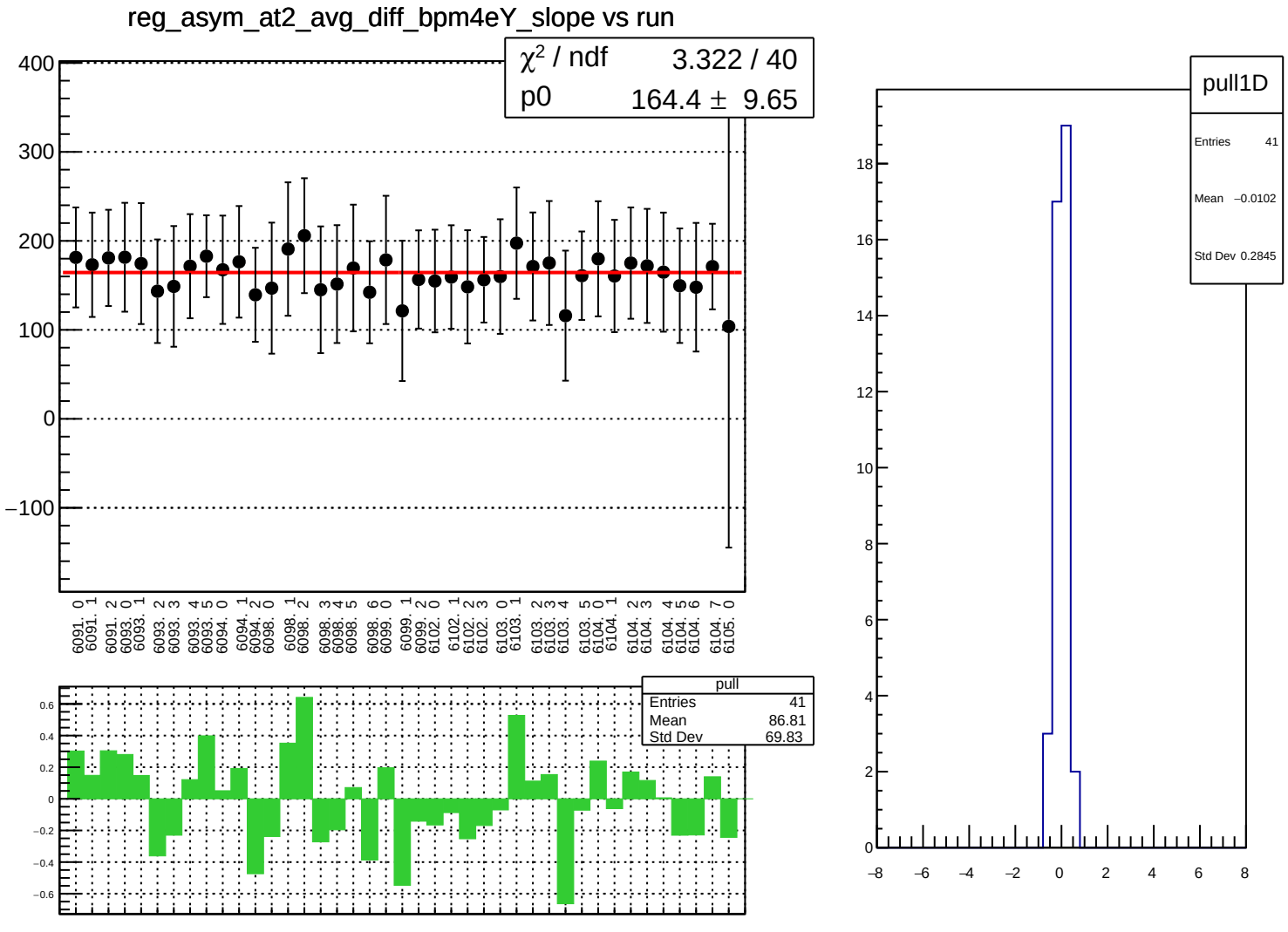

pull1D
Entries 41
Mean −0.02022
Std Dev 0.8794

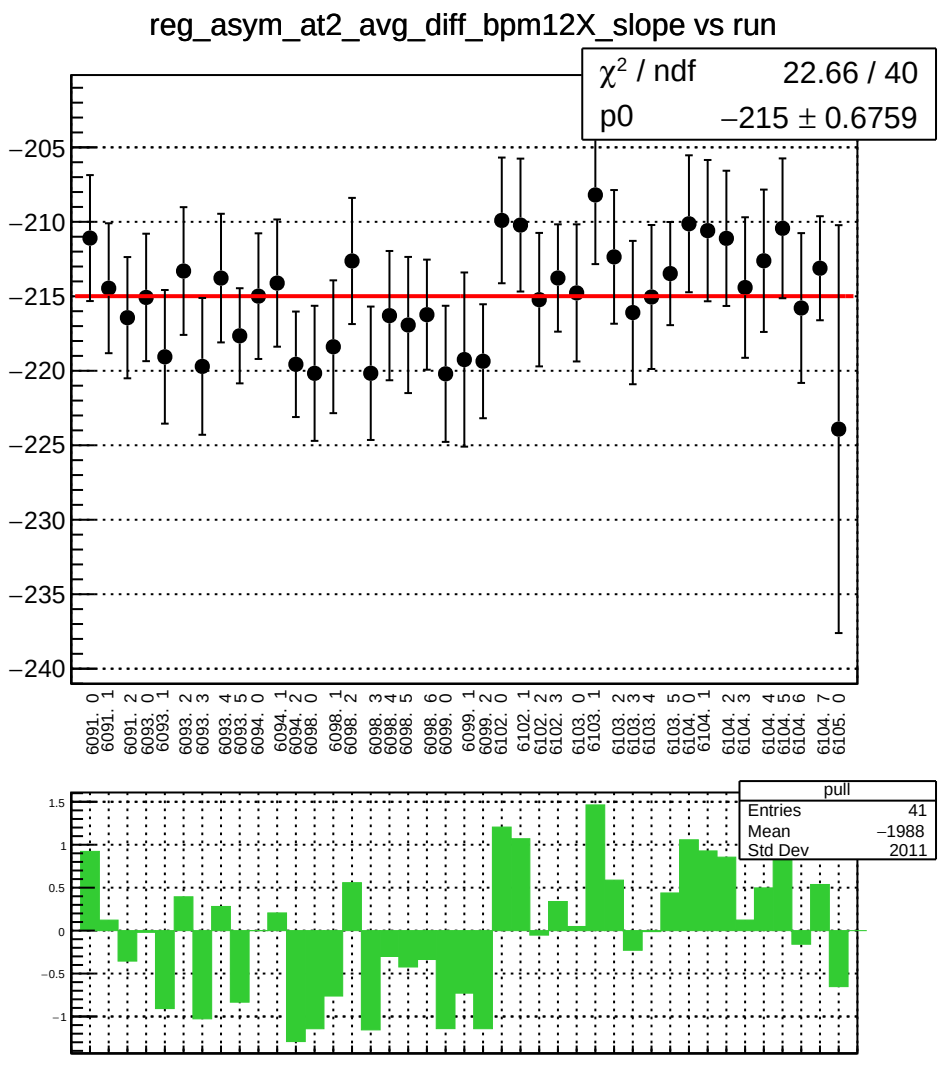

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.506 / 40
p0 −474.5 ± 13.69
−200
−300
−400
−500
−600
−700
−800
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 463
Std Dev 443.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.003434
Std Dev 0.3983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

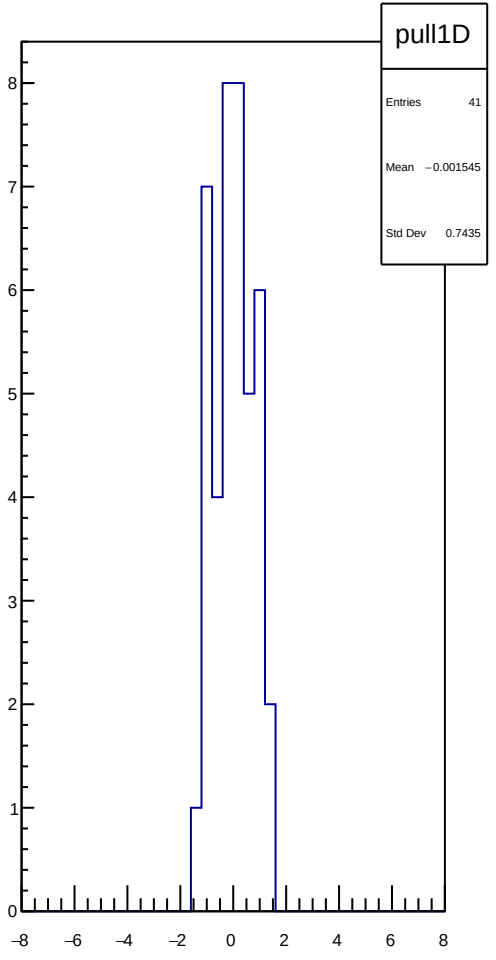

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.256 / 40
p0 −29.78 ± 9.168
300
200
100
0
−100
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 54.72
Std Dev 39.84
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.01027
Std Dev 0.2816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

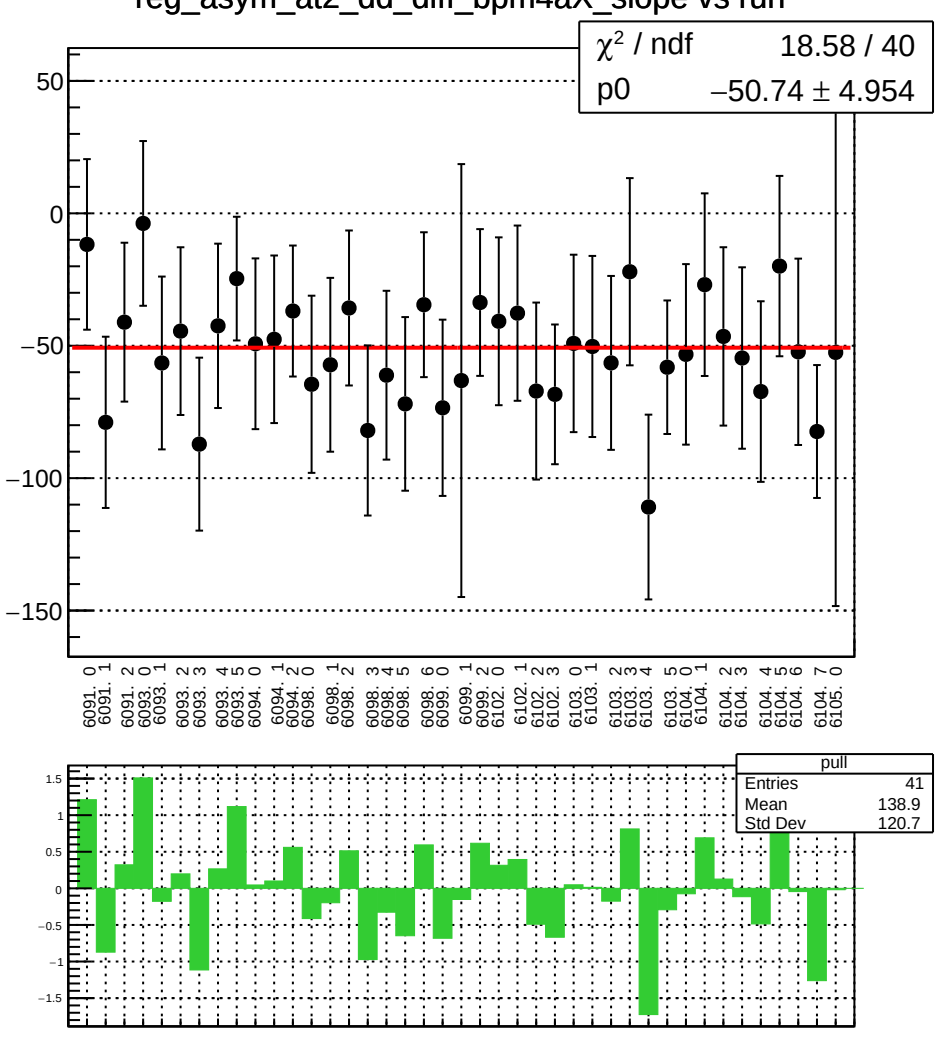

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.13 / 40
p0 625.1 ± 15.96
pull
Entries 41
Mean 478.6
Std Dev 458.6

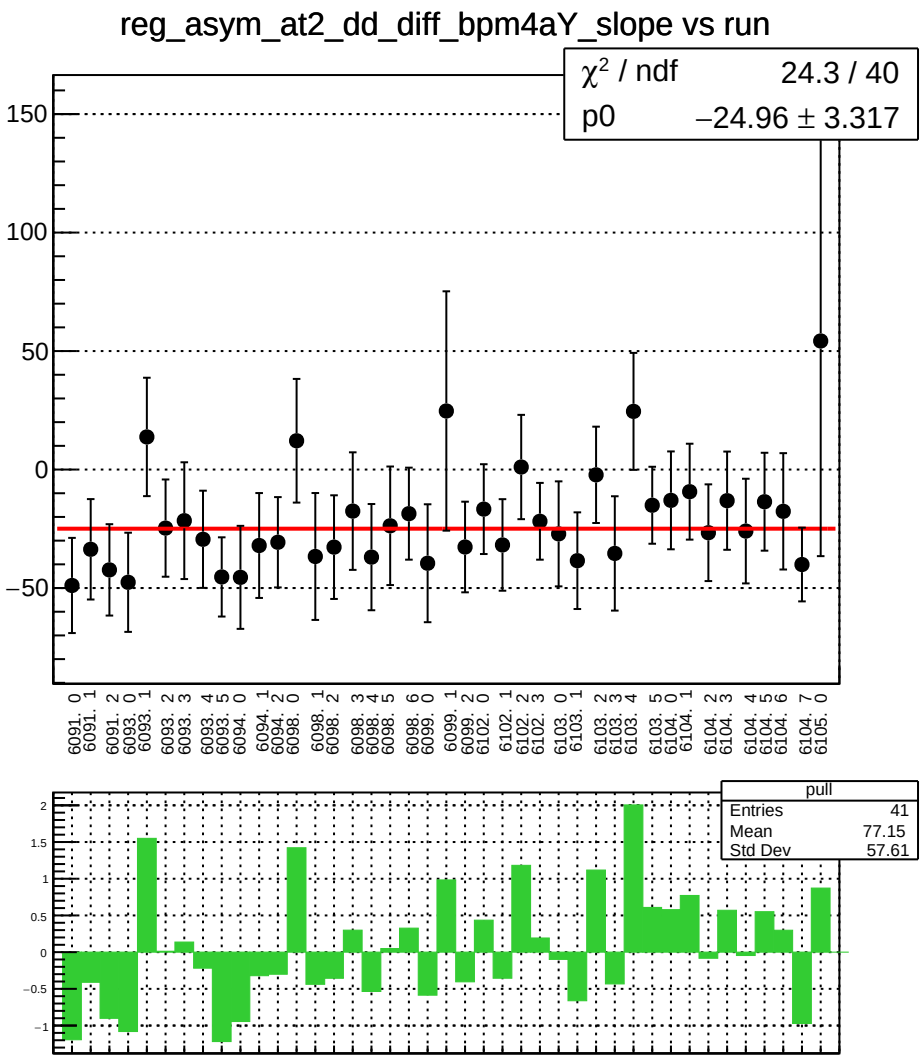

pull1D
Entries 41
Mean −0.003455
Std Dev 0.3866

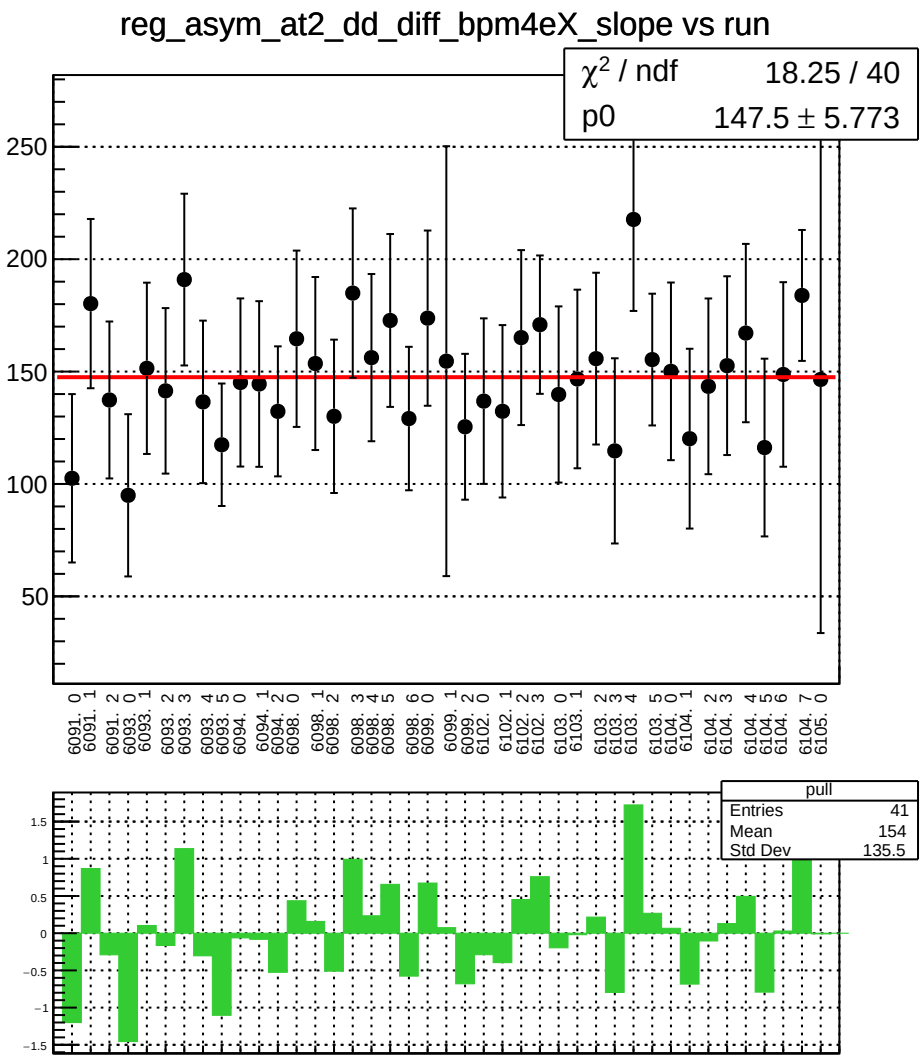

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.322 / 40
p0 164.4 ± 9.65
400
300
200
100
0
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 86.81
Std Dev 69.83
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.0102
Std Dev 0.2845
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

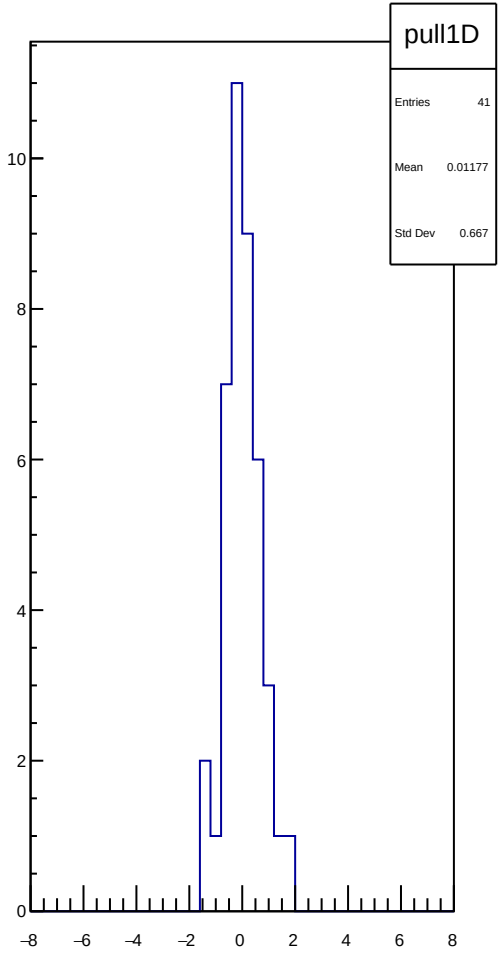

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 22.66 / 40
p0 −215 ± 0.6759
−205
−210
−215
−220
−225
−230
−235
−240
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −1988
Std Dev 2011
1.5
1
0.5
0
−0.5
−1

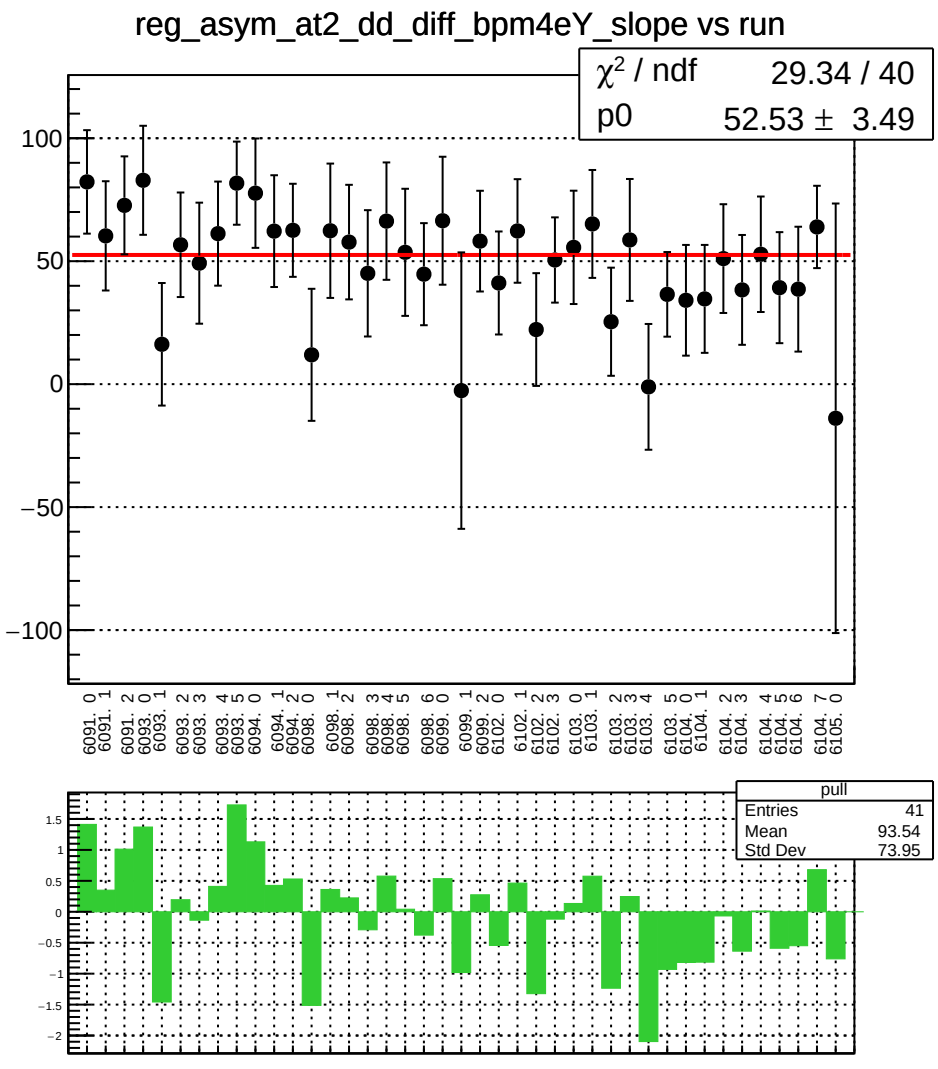

pull1D
Entries 41
Mean −0.001545
Std Dev 0.7435
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

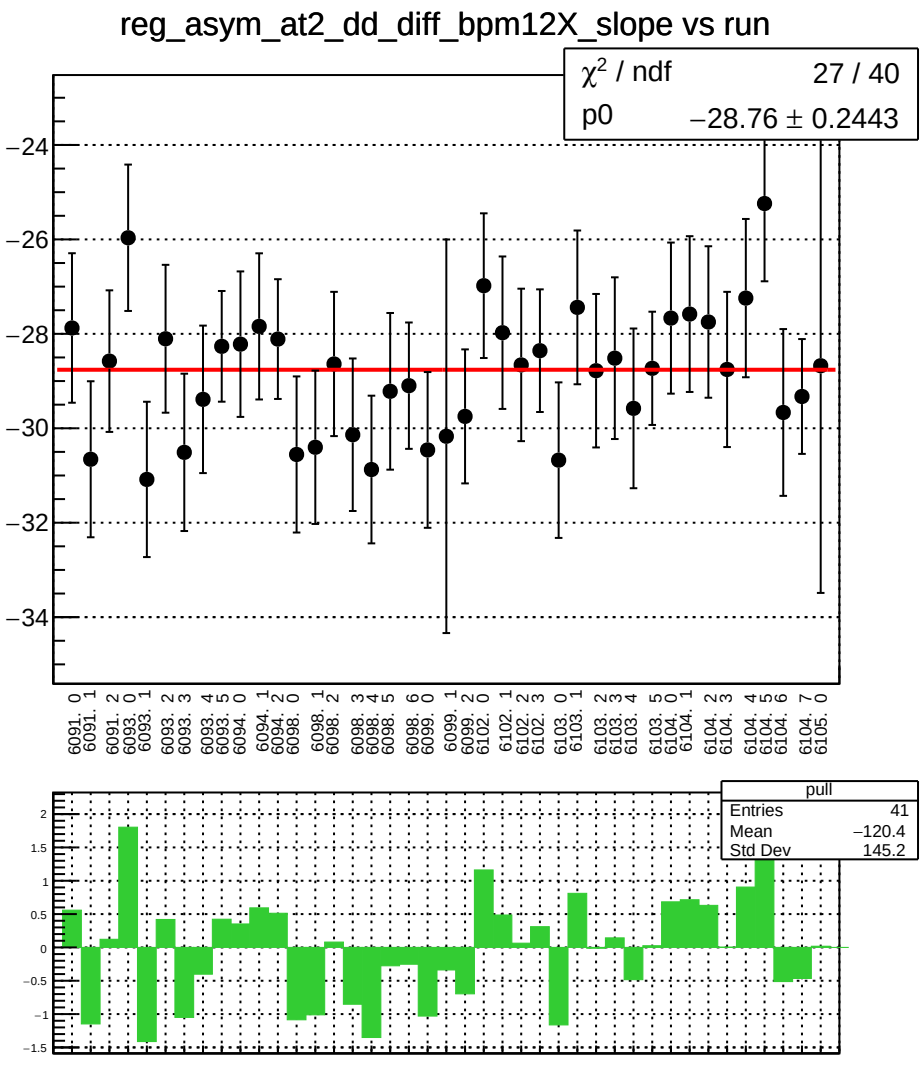

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.58 / 40
p0 −50.74 ± 4.954
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 138.9
Std Dev 120.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01323
Std Dev 0.6731
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

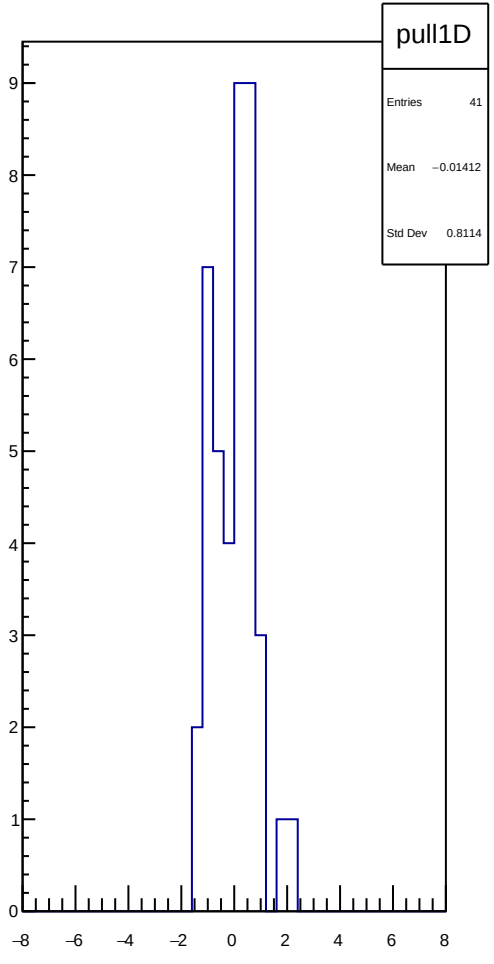

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.3 / 40
p0 −24.96 ± 3.317
150
100
50
0
−50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 77.15
Std Dev 57.61
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.05874
Std Dev 0.7677
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

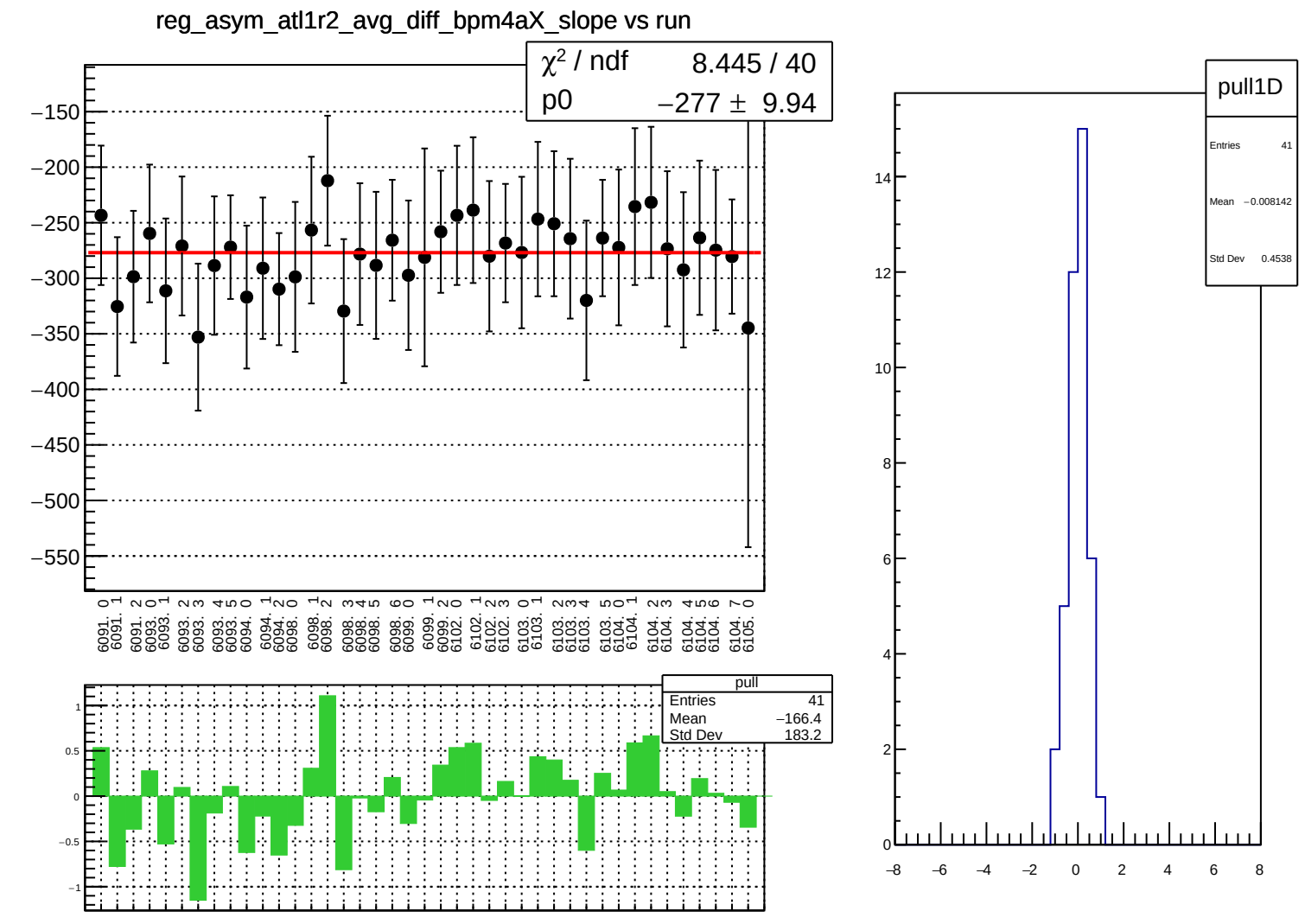

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.25 / 40
p0 147.5 ± 5.773
250
200
150
100
50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 154
Std Dev 135.5
1.5
1
0.5
0
−0.5
−1
−1.5

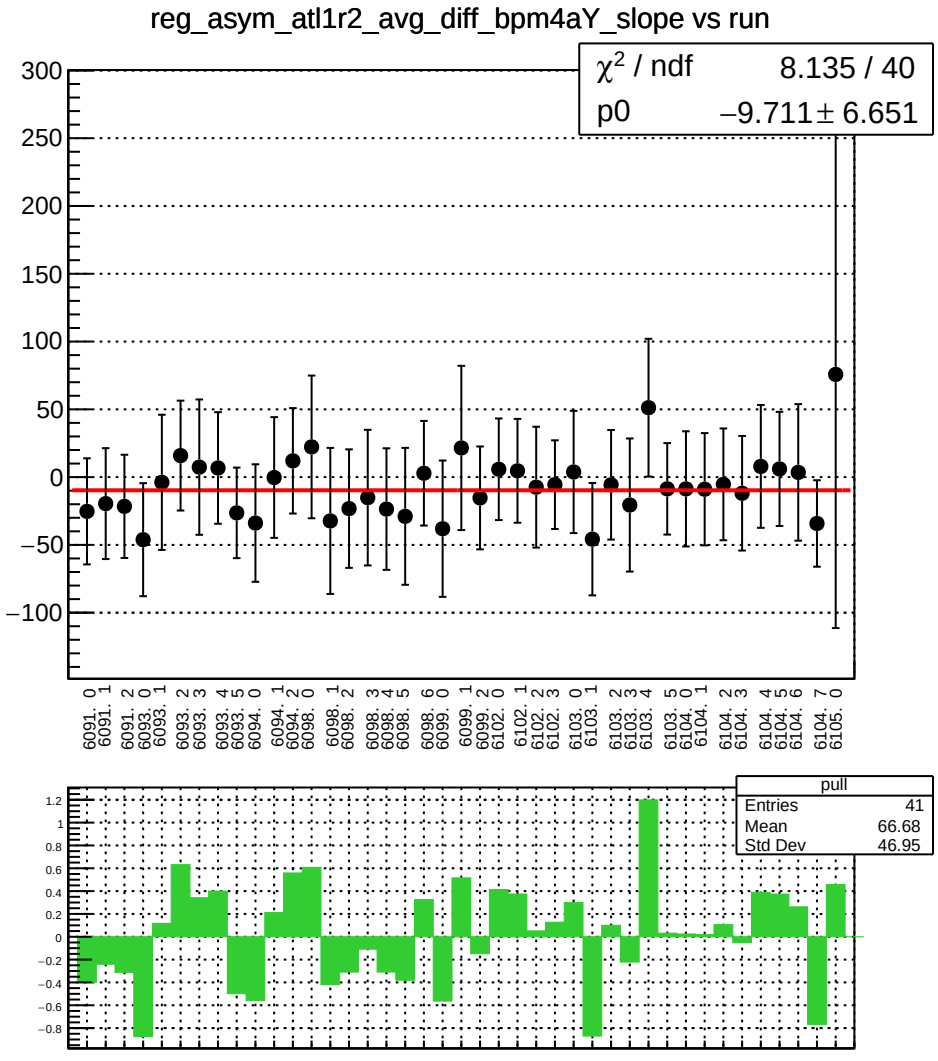

pull1D
Entries 41
Mean 0.01177
Std Dev 0.667
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

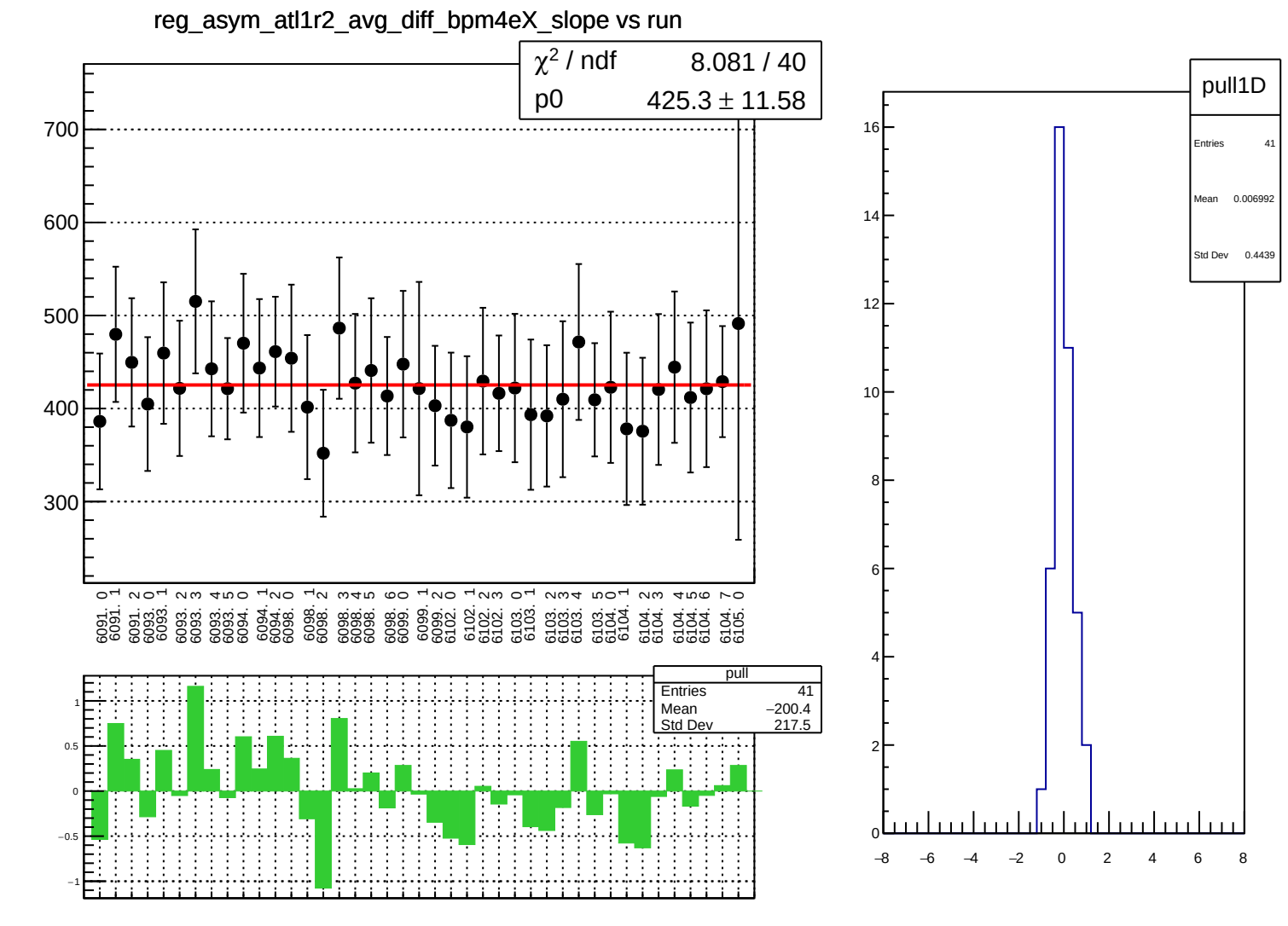

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.34 / 40
p0 52.53 ± 3.49
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 93.54
Std Dev 73.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.06222
Std Dev 0.8437
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

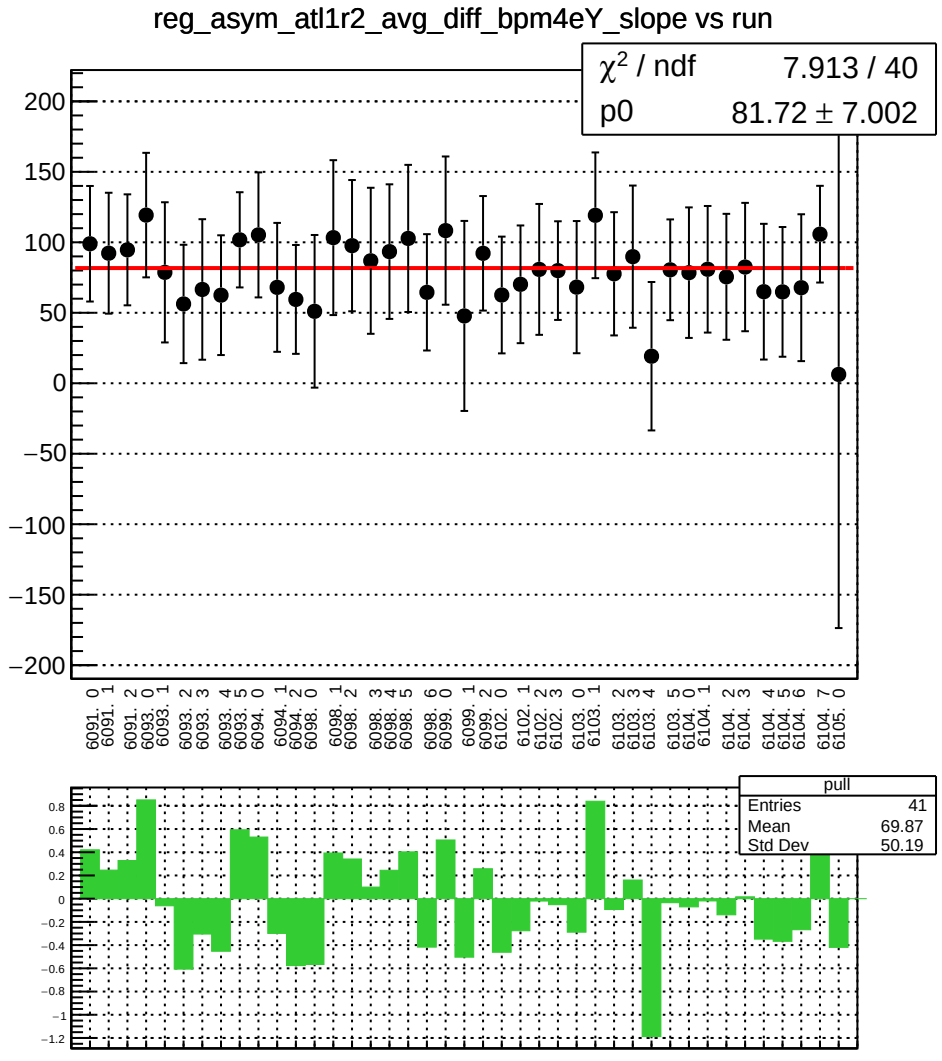

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 27 / 40
p0 −28.76 ± 0.2443
pull
Entries 41
Mean −120.4
Std Dev 145.2

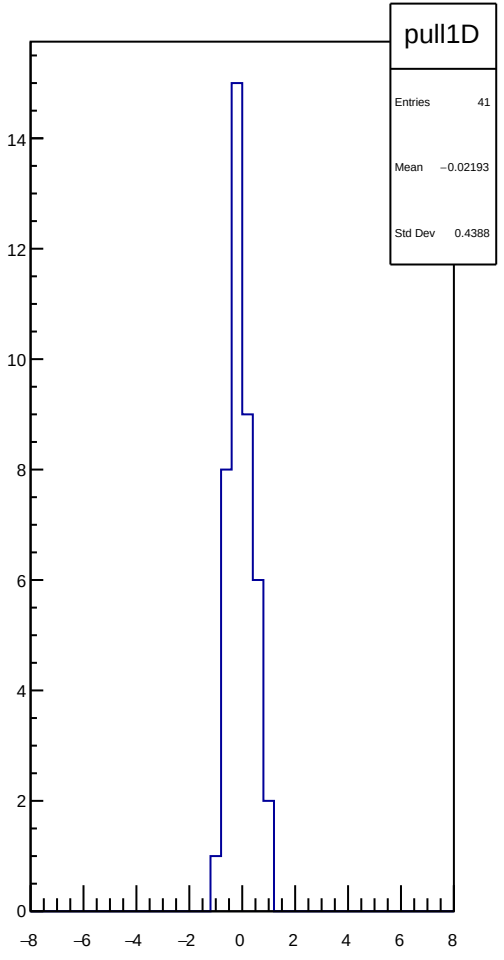

pull1D
Entries 41
Mean −0.01412
Std Dev 0.8114

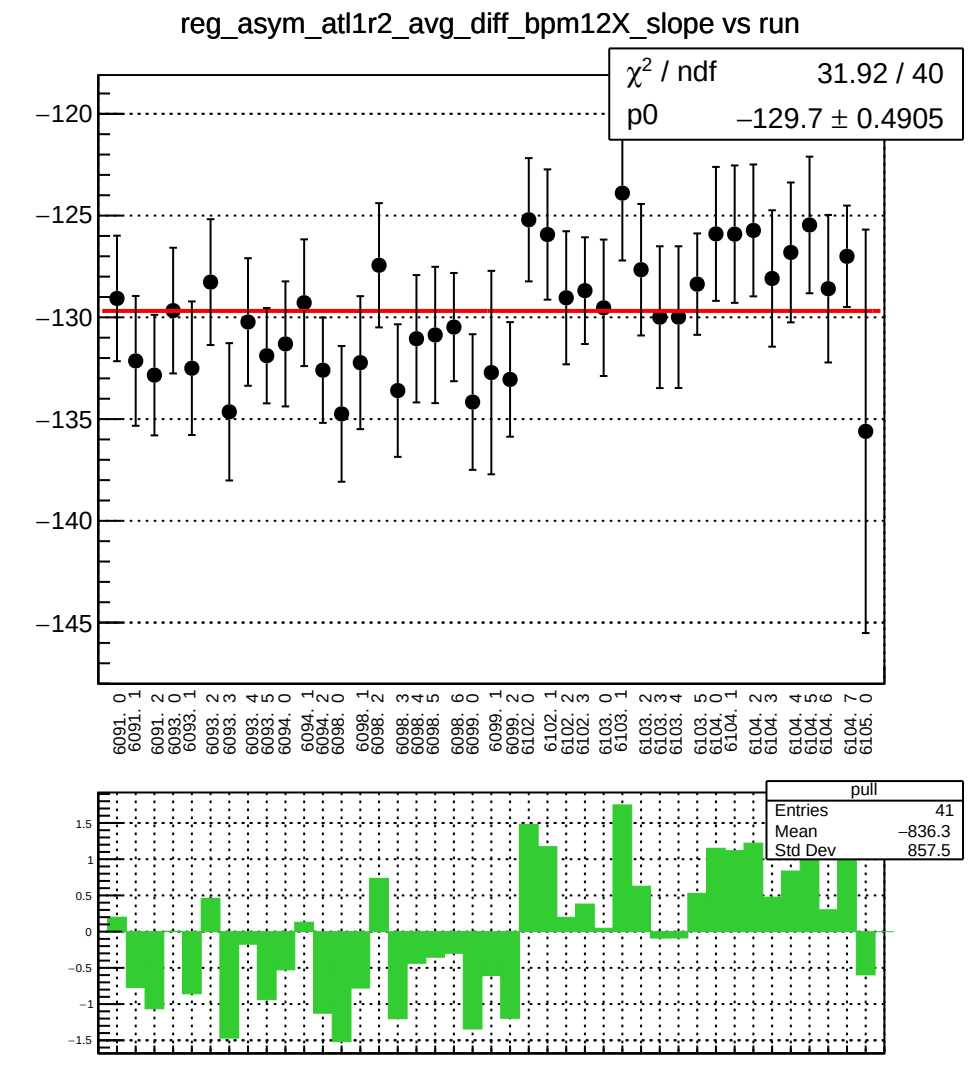

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.445 / 40
p0 −277 ± 9.94
−150
−200
−250
−300
−350
−400
−450
−500
−550
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −166.4
Std Dev 183.2
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.008142
Std Dev 0.4538
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

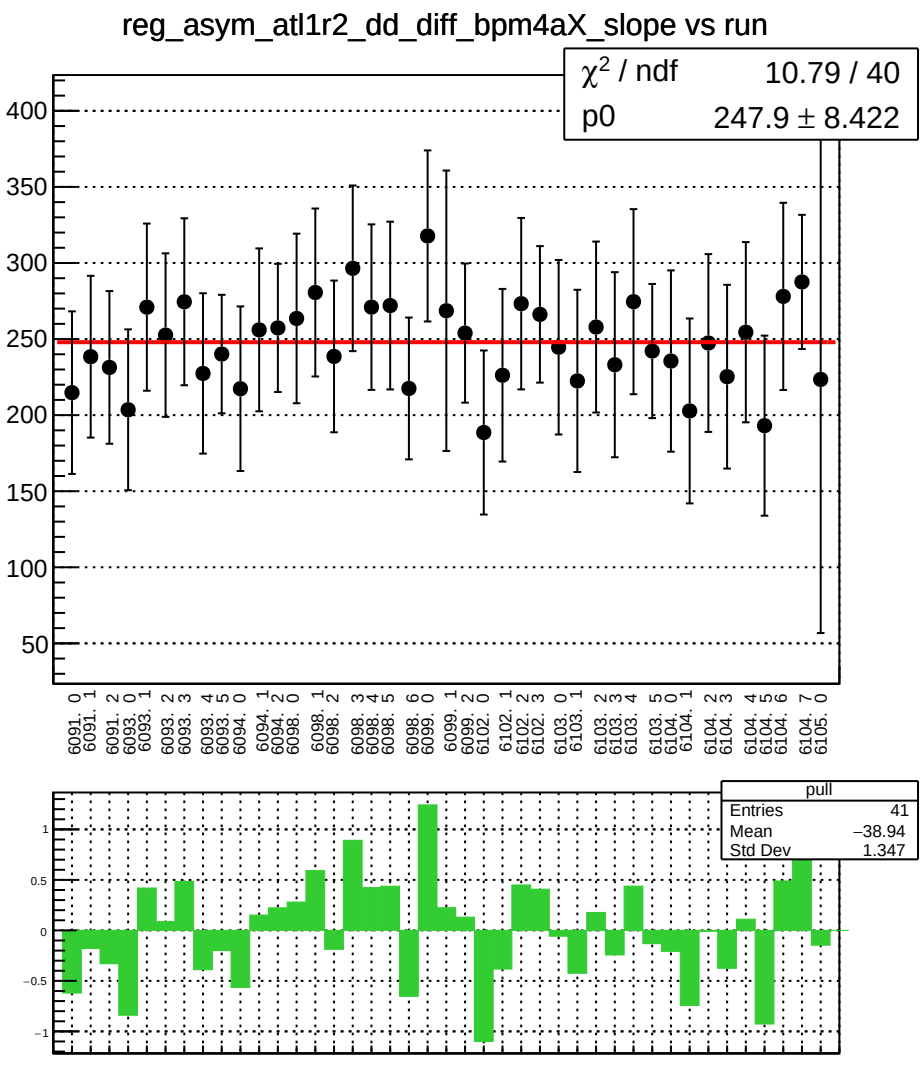

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.135 / 40
p0 −9.711 ± 6.651
pull
Entries 41
Mean 66.68
Std Dev 46.95
pull1D
Entries 41
Mean 0.02217
Std Dev 0.4449

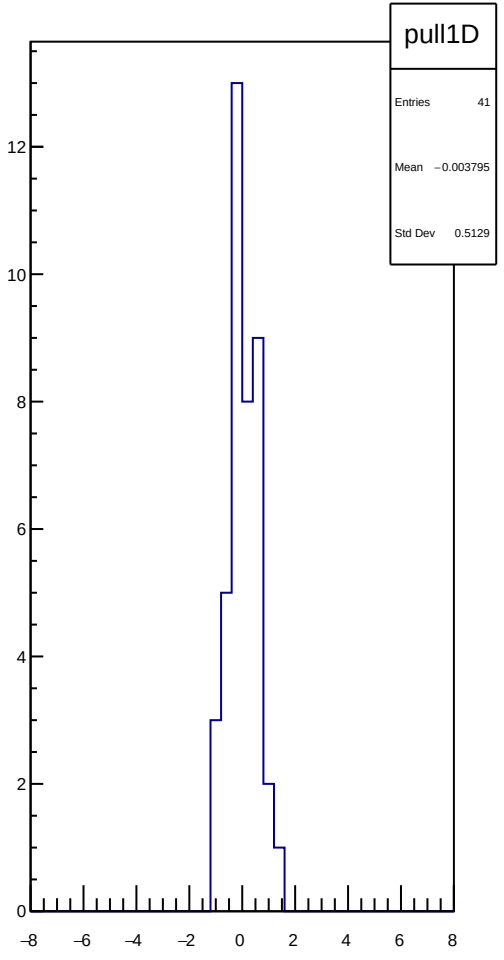

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.081 / 40
p0 425.3 ± 11.58
700
600
500
400
300
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −200.4
Std Dev 217.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.006992
Std Dev 0.4439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

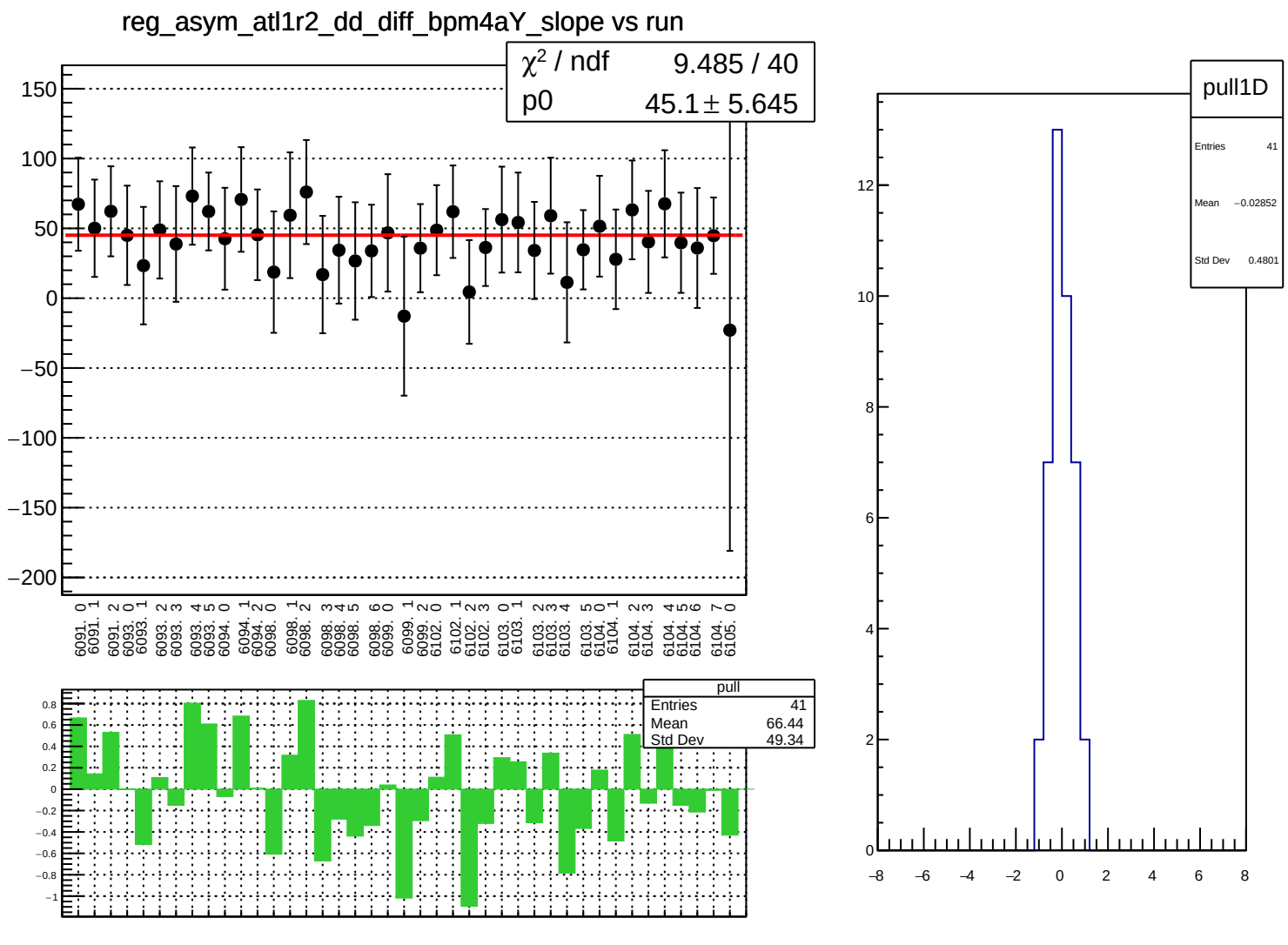

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.913 / 40
p0 81.72 ± 7.002
pull
Entries 41
Mean 69.87
Std Dev 50.19

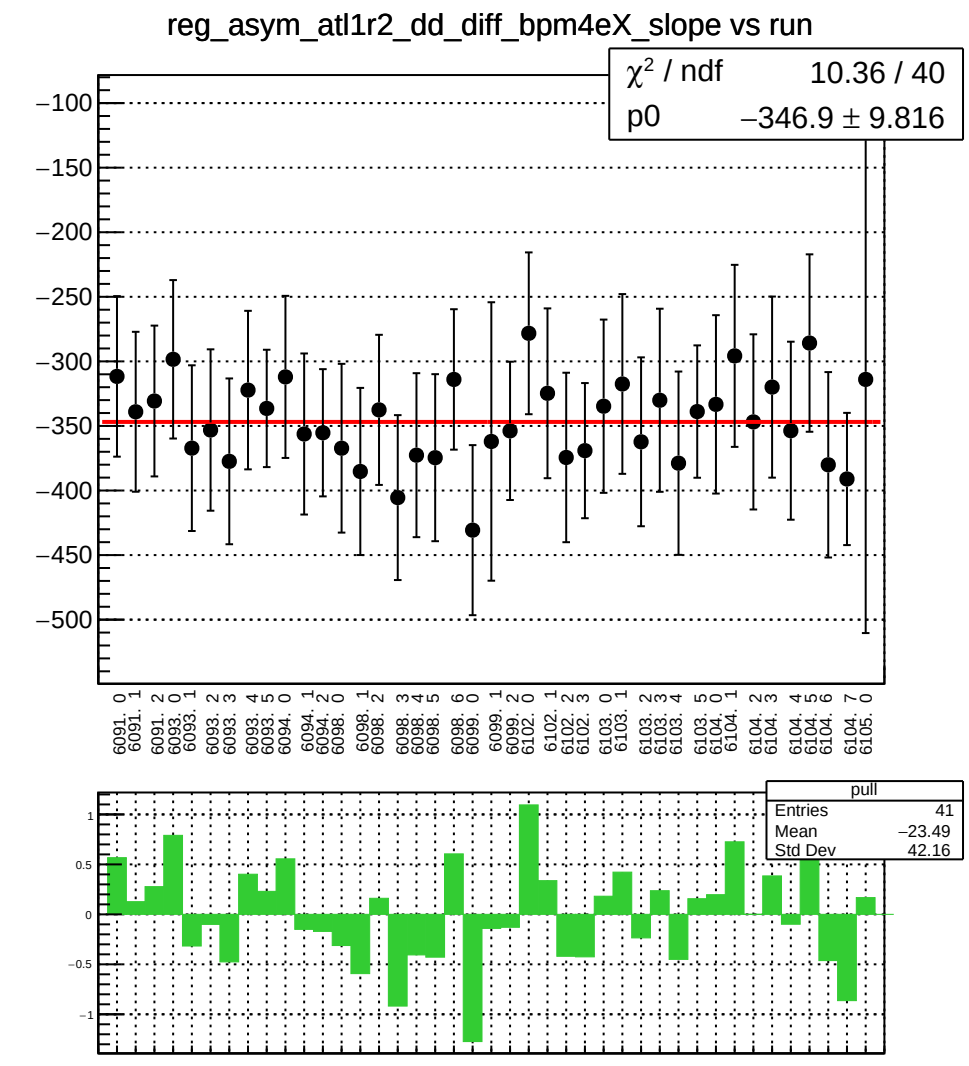

pull1D
Entries 41
Mean −0.02193
Std Dev 0.4388

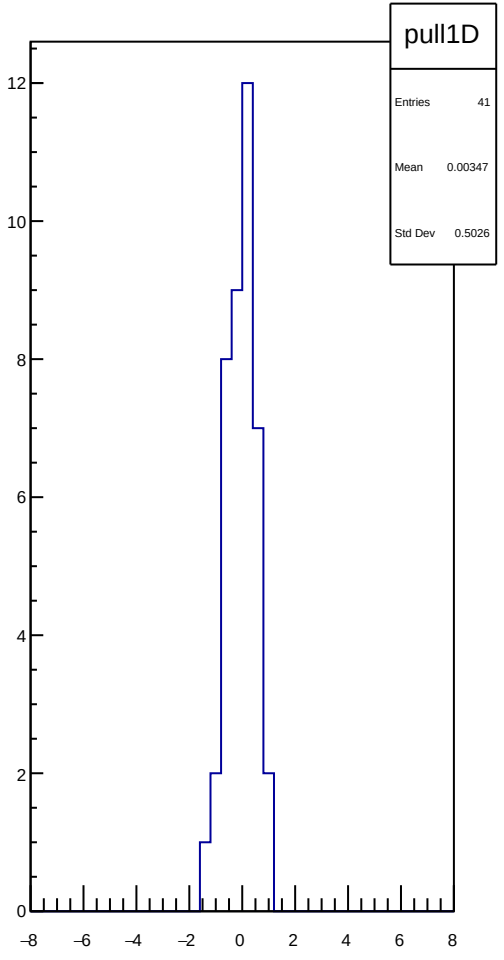

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 31.92 / 40
p0 −129.7 ± 0.4905
−120
−125
−130
−135
−140
−145
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −836.3
Std Dev 857.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006837
Std Dev 0.8823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

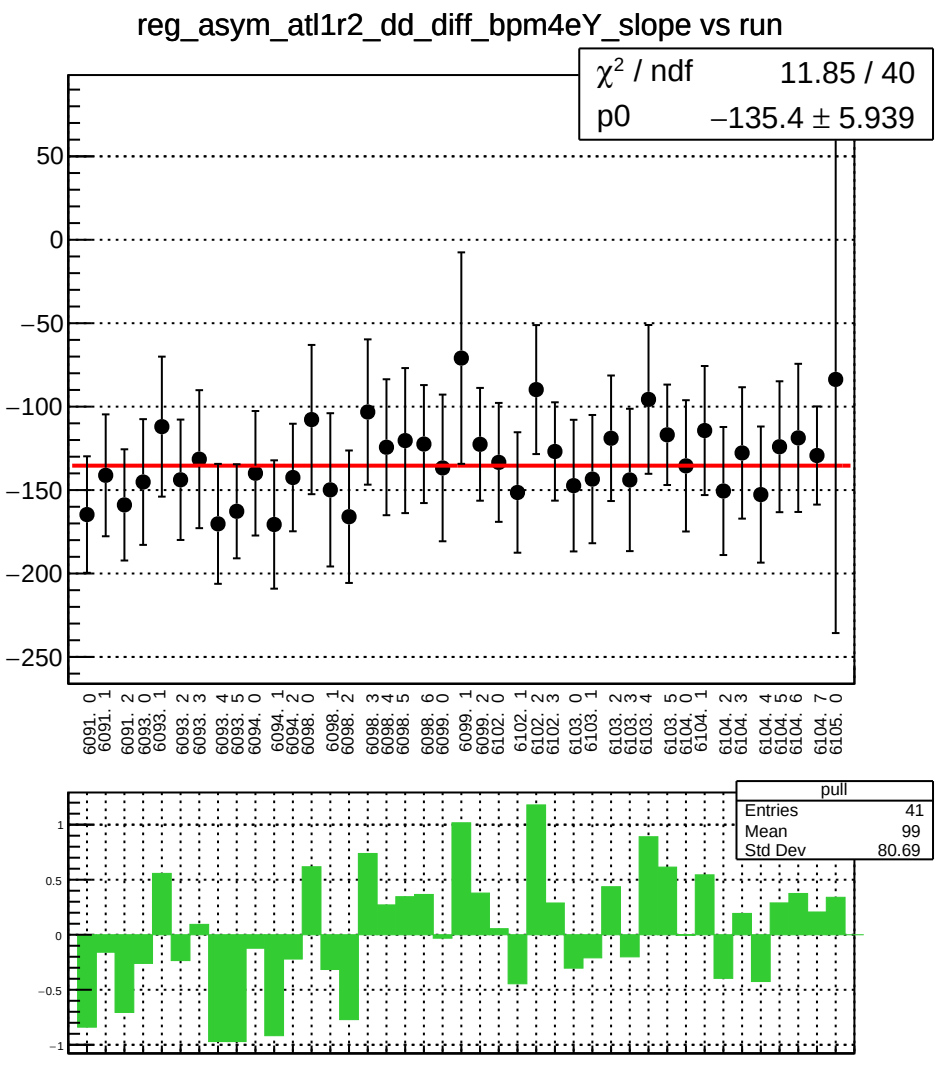

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.79 / 40
p0 247.9 ± 8.422
pull
Entries 41
Mean −38.94
Std Dev 1.347

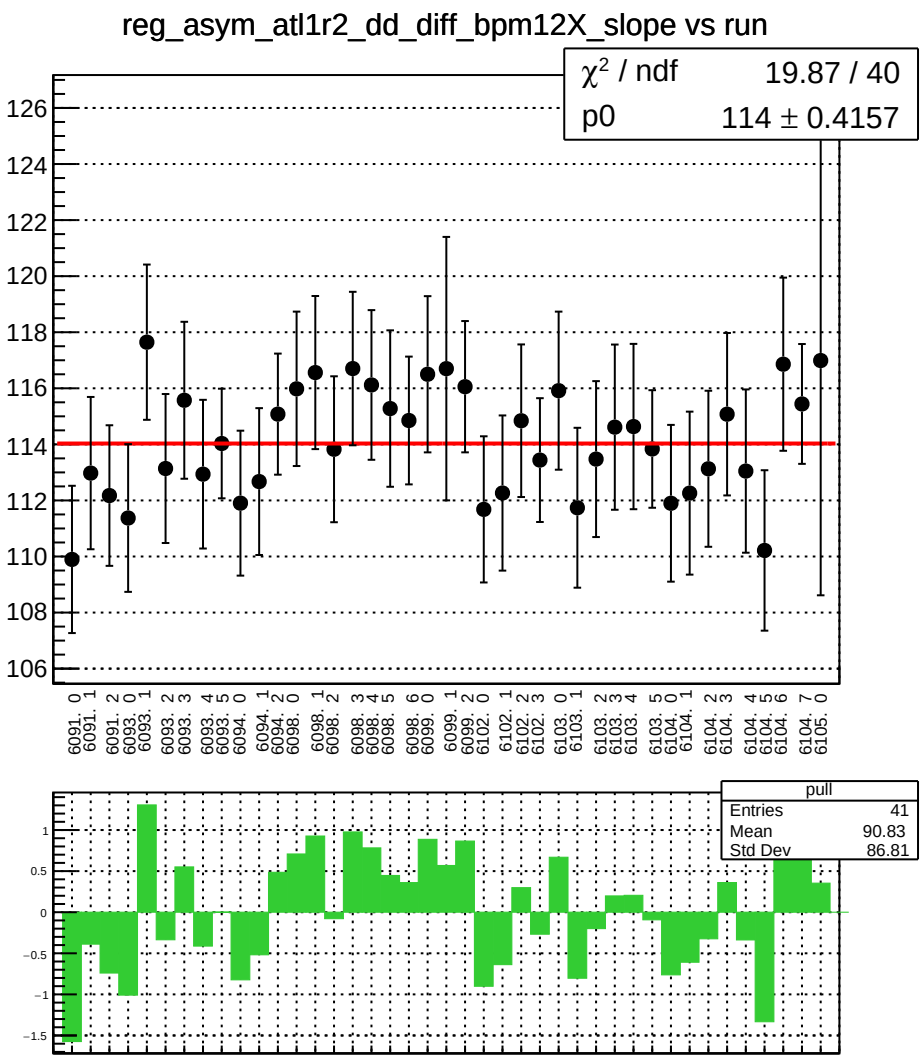

pull1D
Entries 41
Mean −0.003795
Std Dev 0.5129

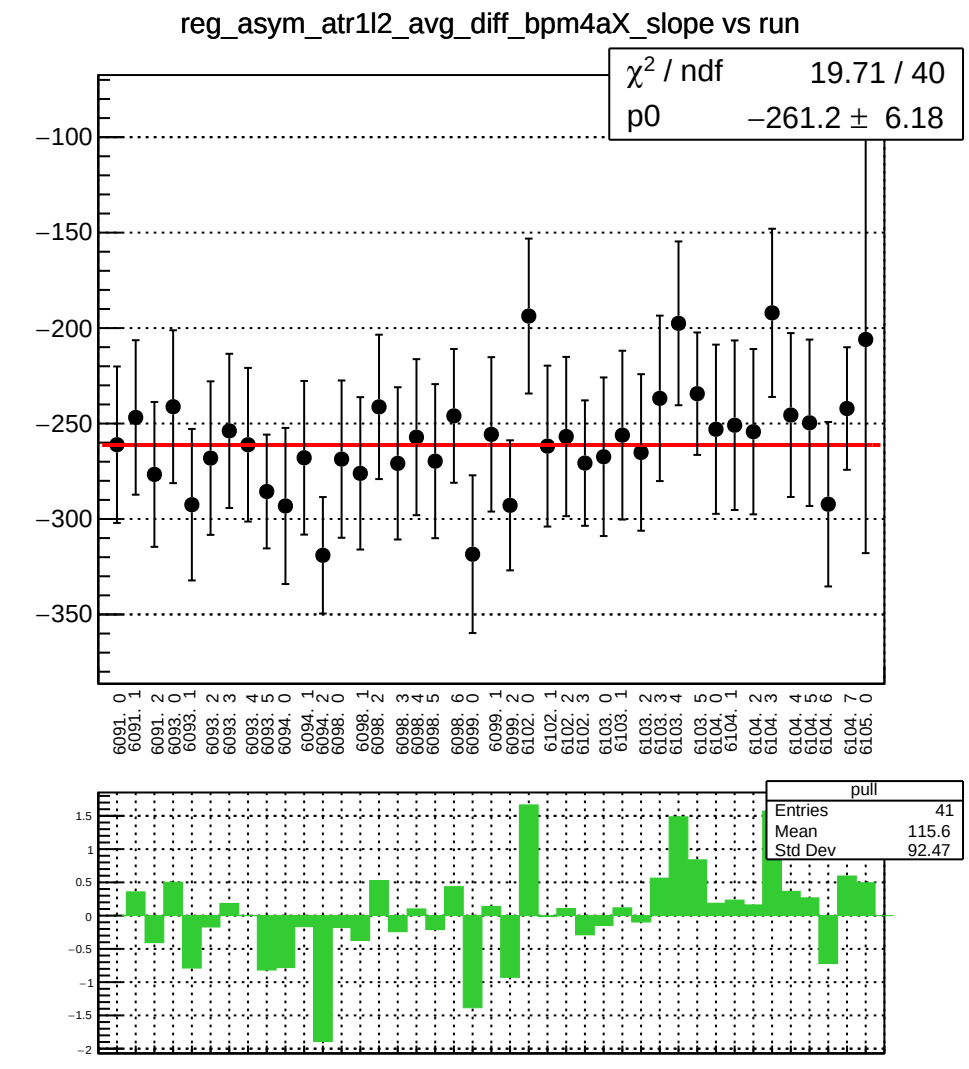

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.485 / 40
p0 45.1 ± 5.645
150
100
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 66.44
Std Dev 49.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean −0.02852
Std Dev 0.4801
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

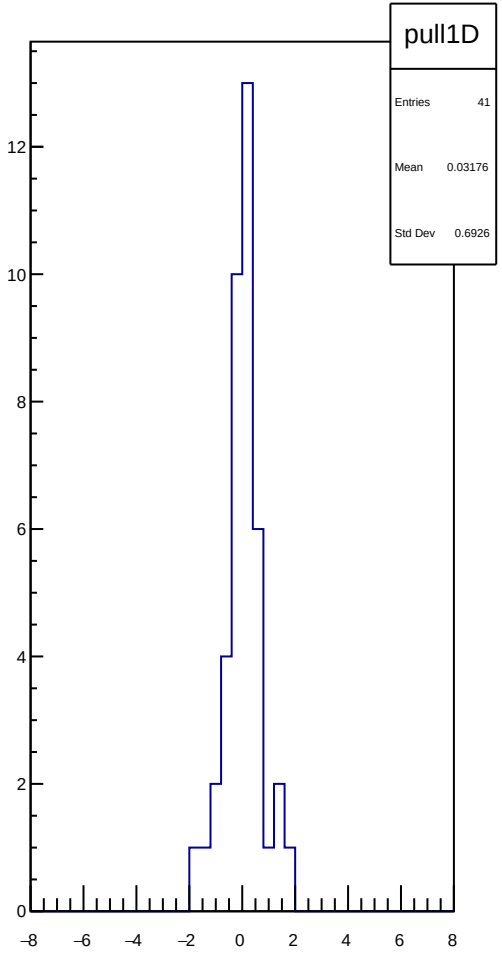

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.36 / 40
p0 −346.9 ± 9.816
pull
Entries 41
Mean −23.49
Std Dev 42.16

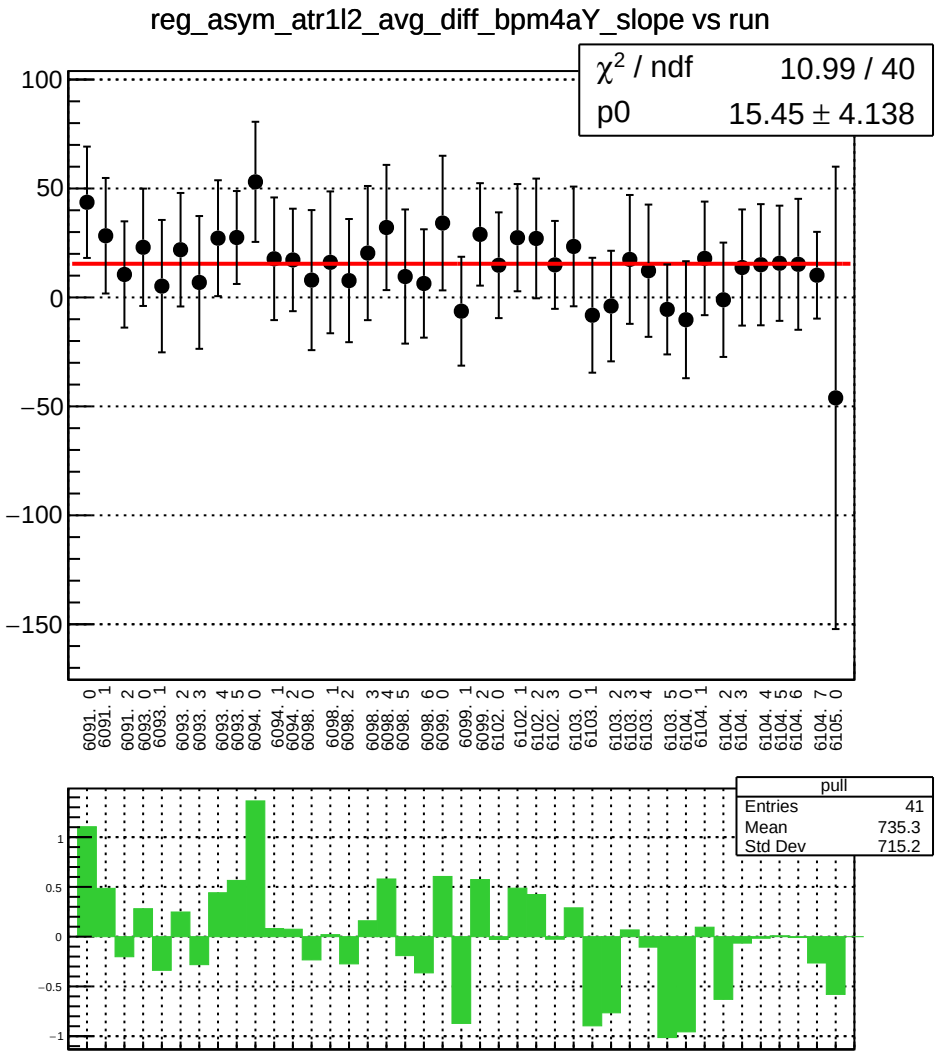

pull1D
Entries 41
Mean 0.00347
Std Dev 0.5026

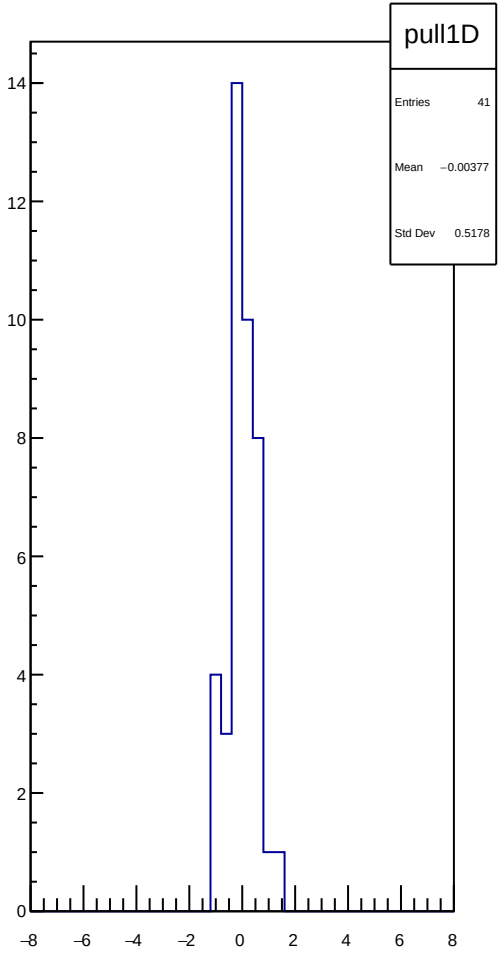

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.85 / 40
p0 −135.4 ± 5.939
50
0
−50
−100
−150
−200
−250
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 99
Std Dev 80.69
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.03161
Std Dev 0.5367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

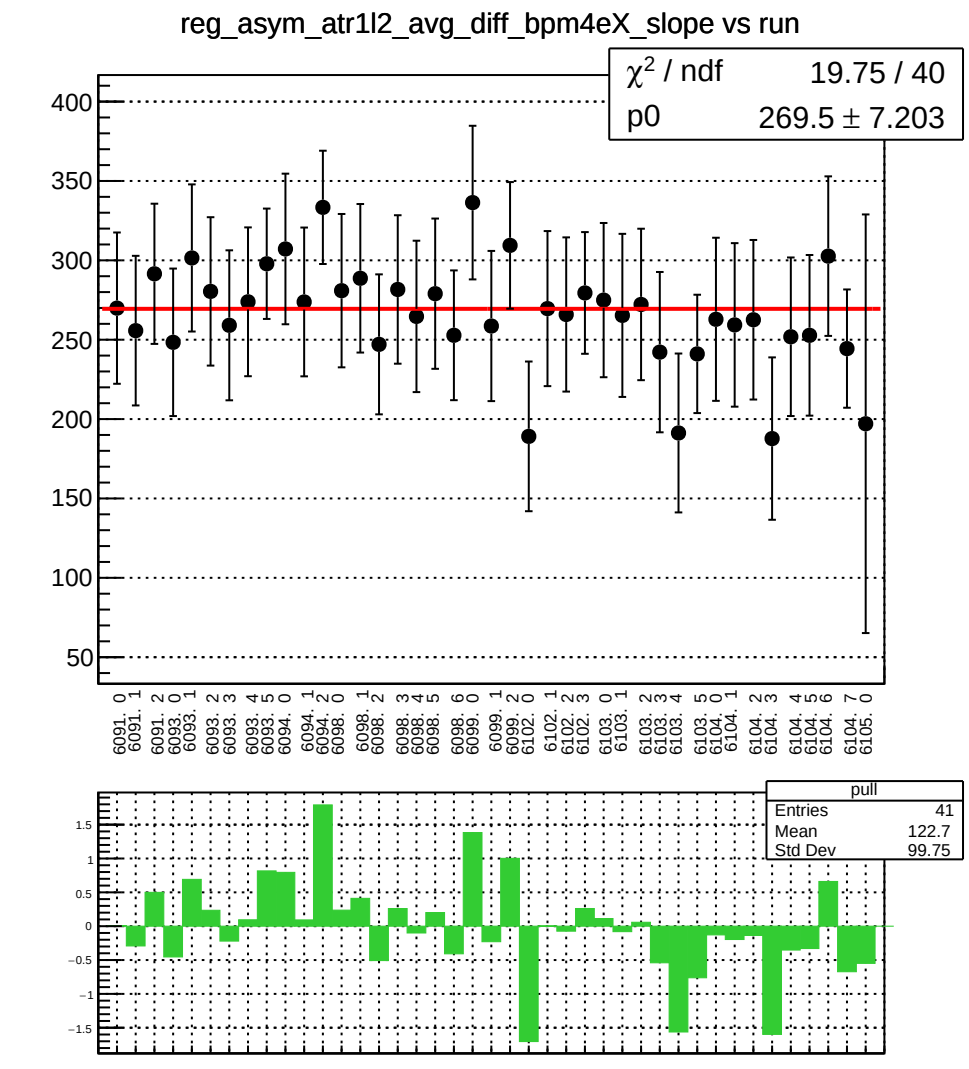

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.87 / 40
p0 114 ± 0.4157
126
124
122
120
118
116
114
112
110
108
106
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 90.83
Std Dev 86.81
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.009303
Std Dev 0.6961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

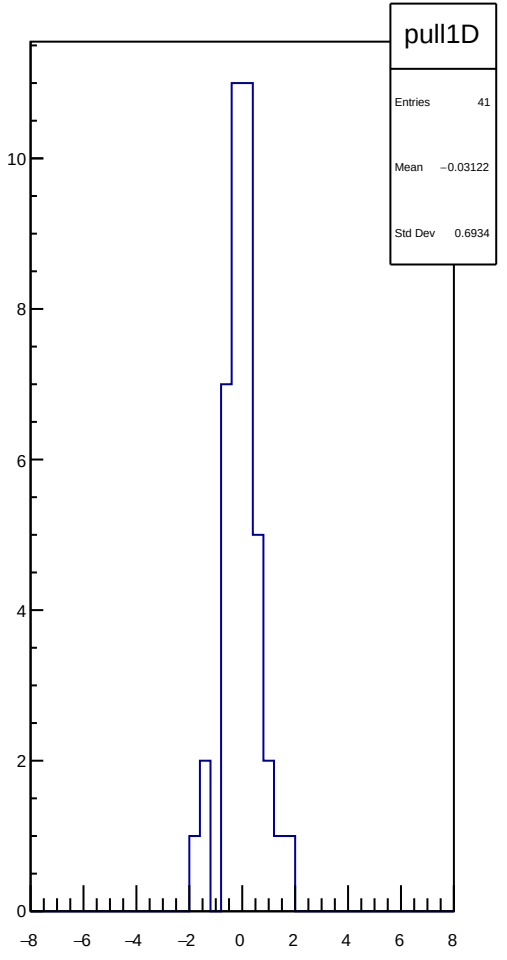

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.71 / 40
p0 −261.2 ± 6.18
−100
−150
−200
−250
−300
−350
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 115.6
Std Dev 92.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

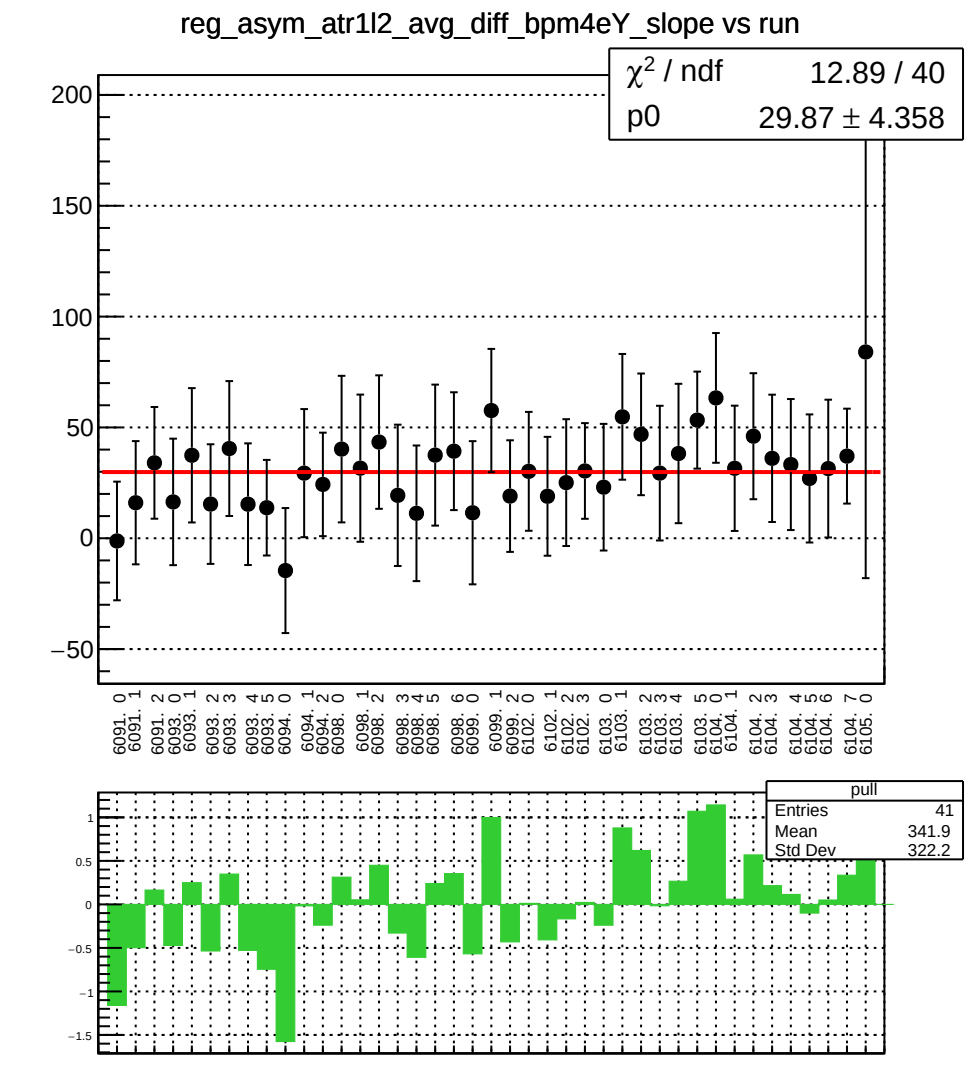

pull1D
Entries 41
Mean 0.03176
Std Dev 0.6926
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

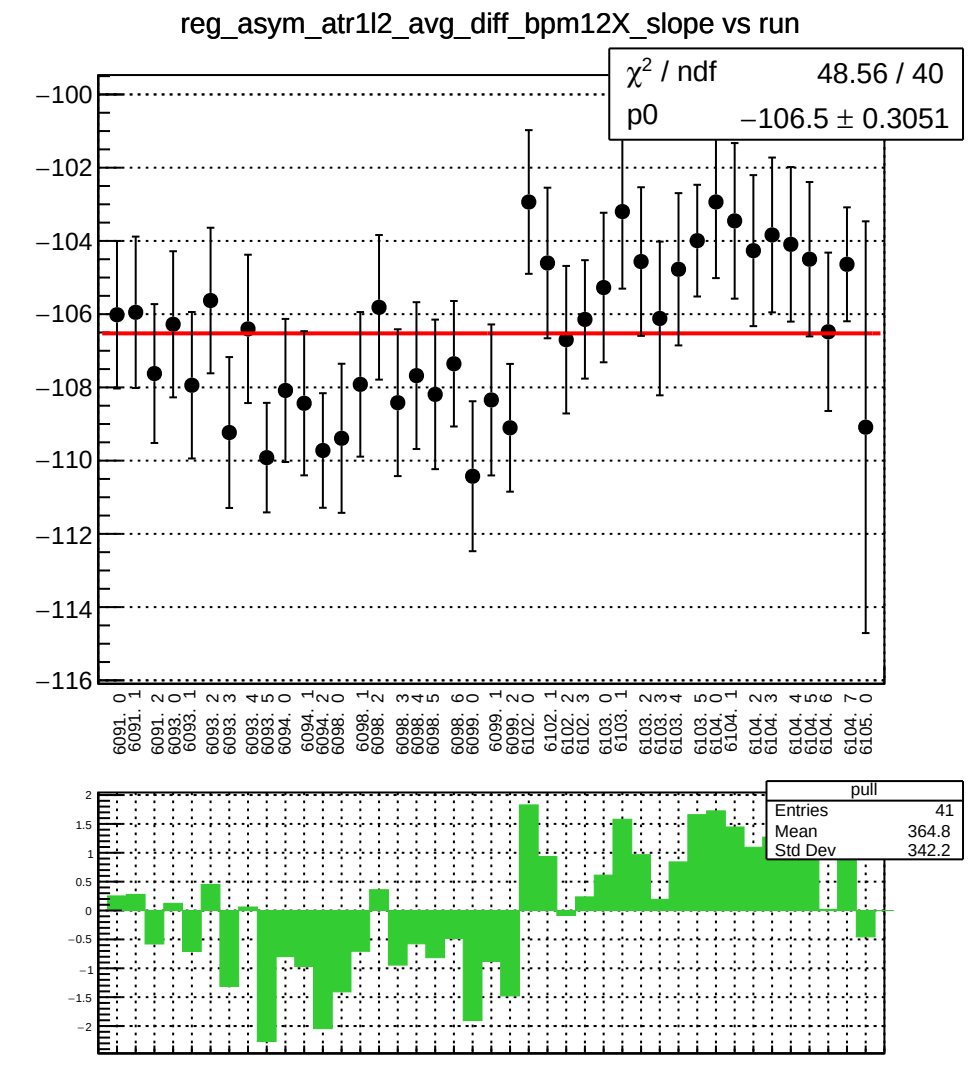

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.99 / 40
p0 15.45 ± 4.138
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 735.3
Std Dev 715.2
1
0.5
0
−0.5
−1

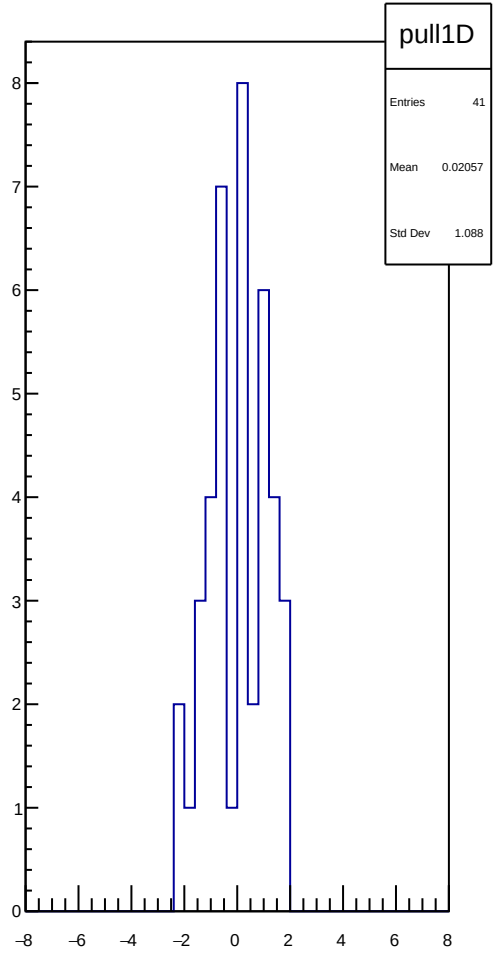

pull1D
Entries 41
Mean −0.00377
Std Dev 0.5178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

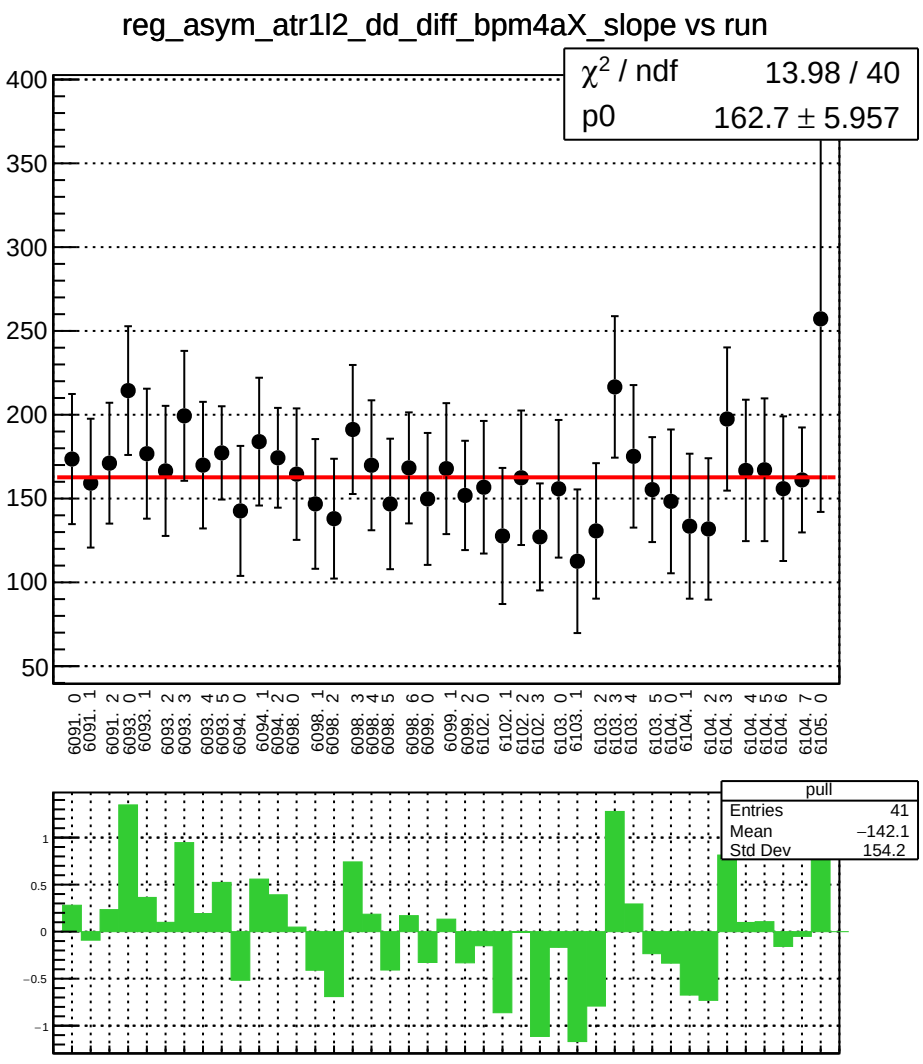

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.75 / 40
p0 269.5 ± 7.203
400
350
300
250
200
150
100
50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 122.7
Std Dev 99.75
1.5
1
0.5
0
−0.5
−1
−1.5

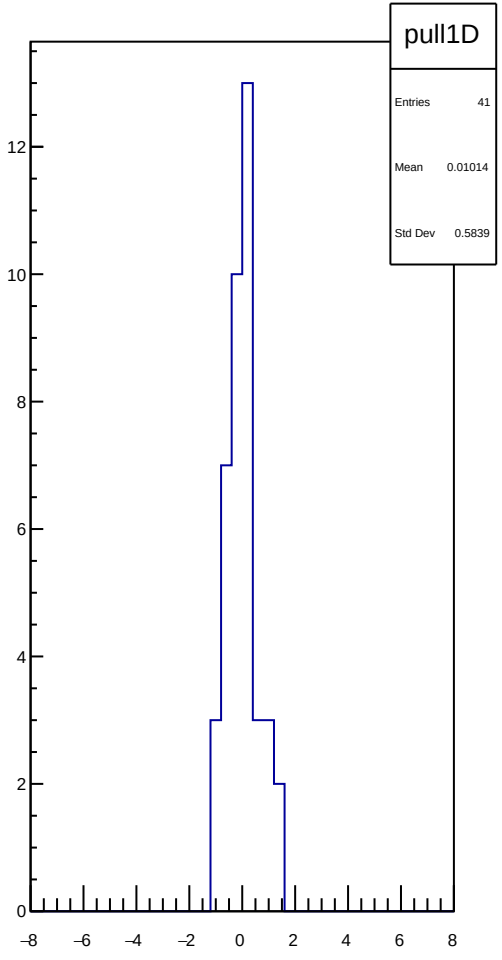

pull1D
Entries 41
Mean −0.03122
Std Dev 0.6934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

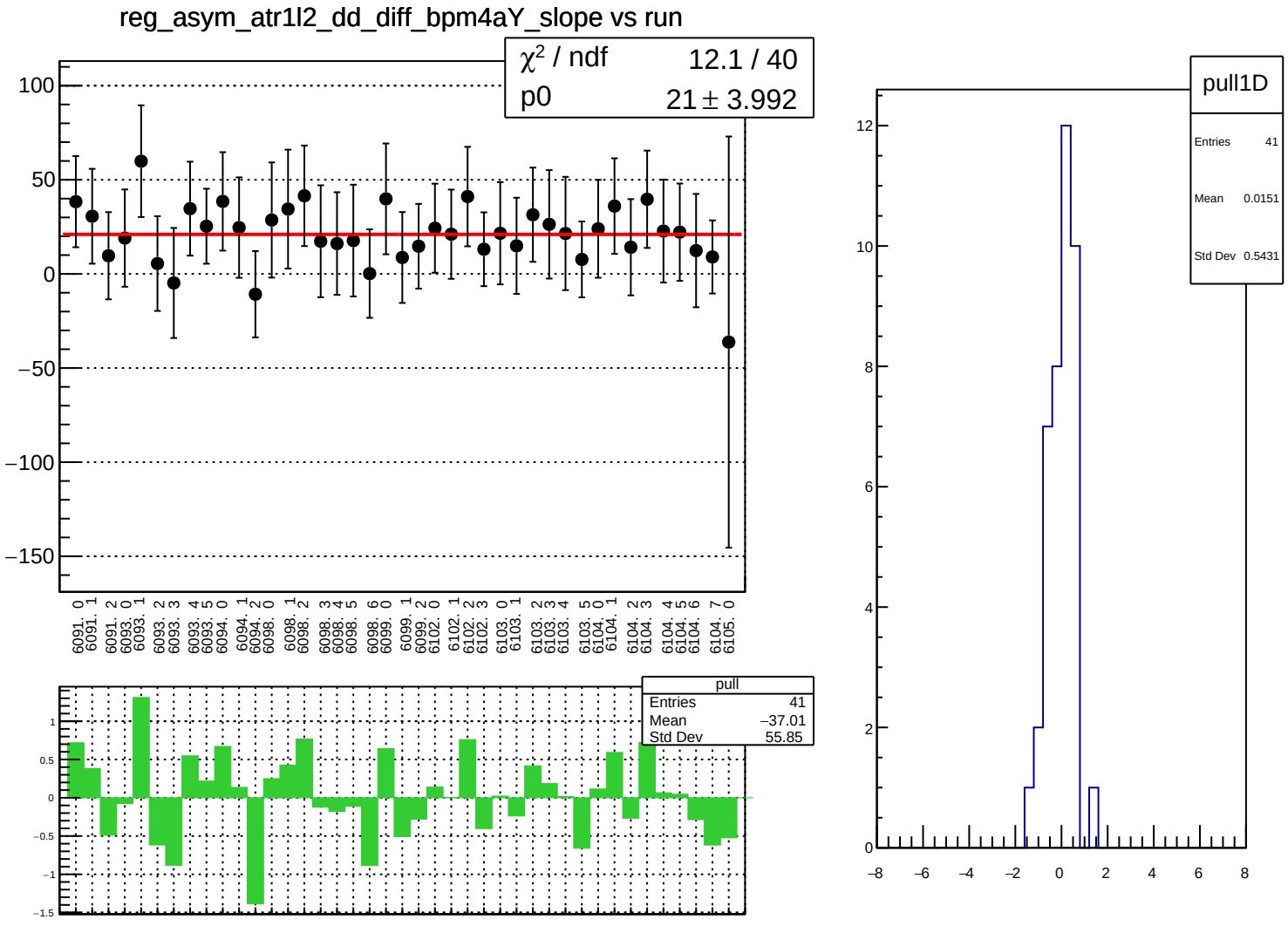

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.89 / 40
p0 29.87 ± 4.358
200
150
100
50
0
−50
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 341.9
Std Dev 322.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01028
Std Dev 0.5606
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

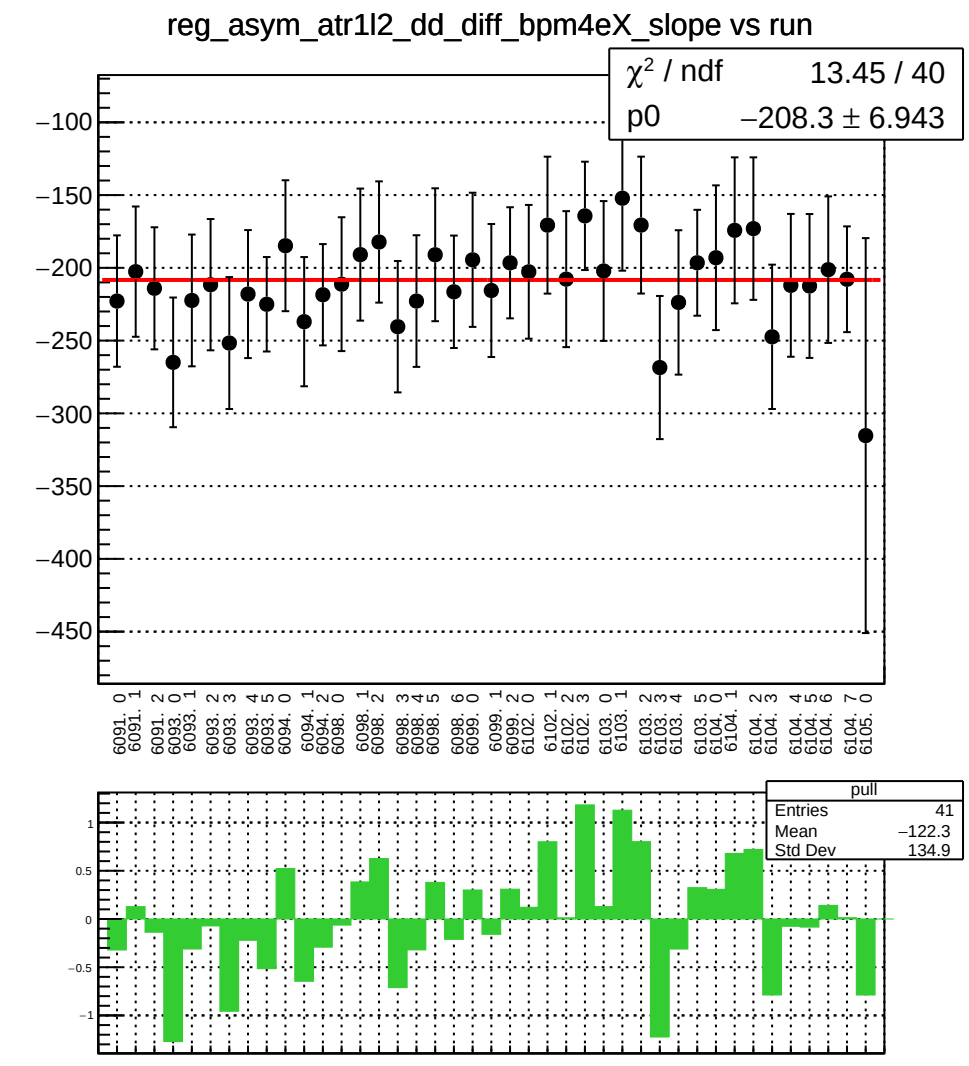

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 48.56 / 40
p0 −106.5 ± 0.3051
pull
Entries 41
Mean 364.8
Std Dev 342.2

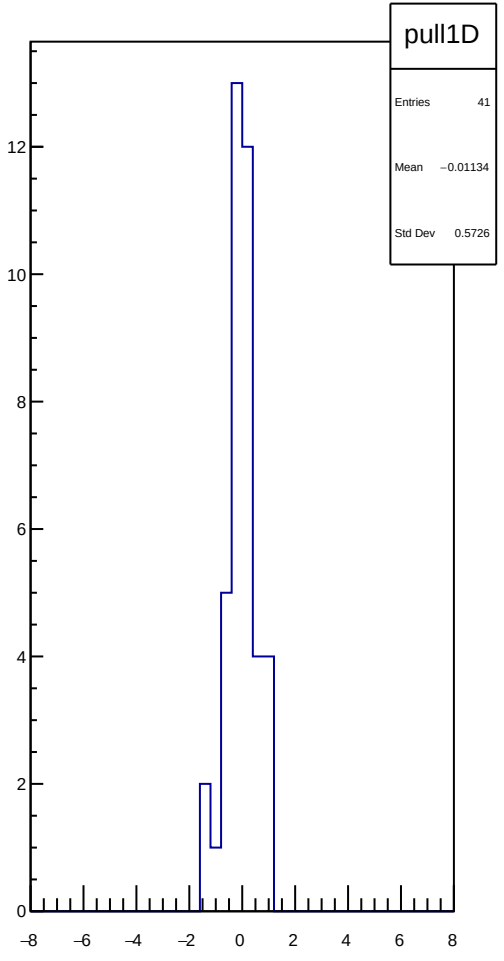

pull1D
Entries 41
Mean 0.02057
Std Dev 1.088

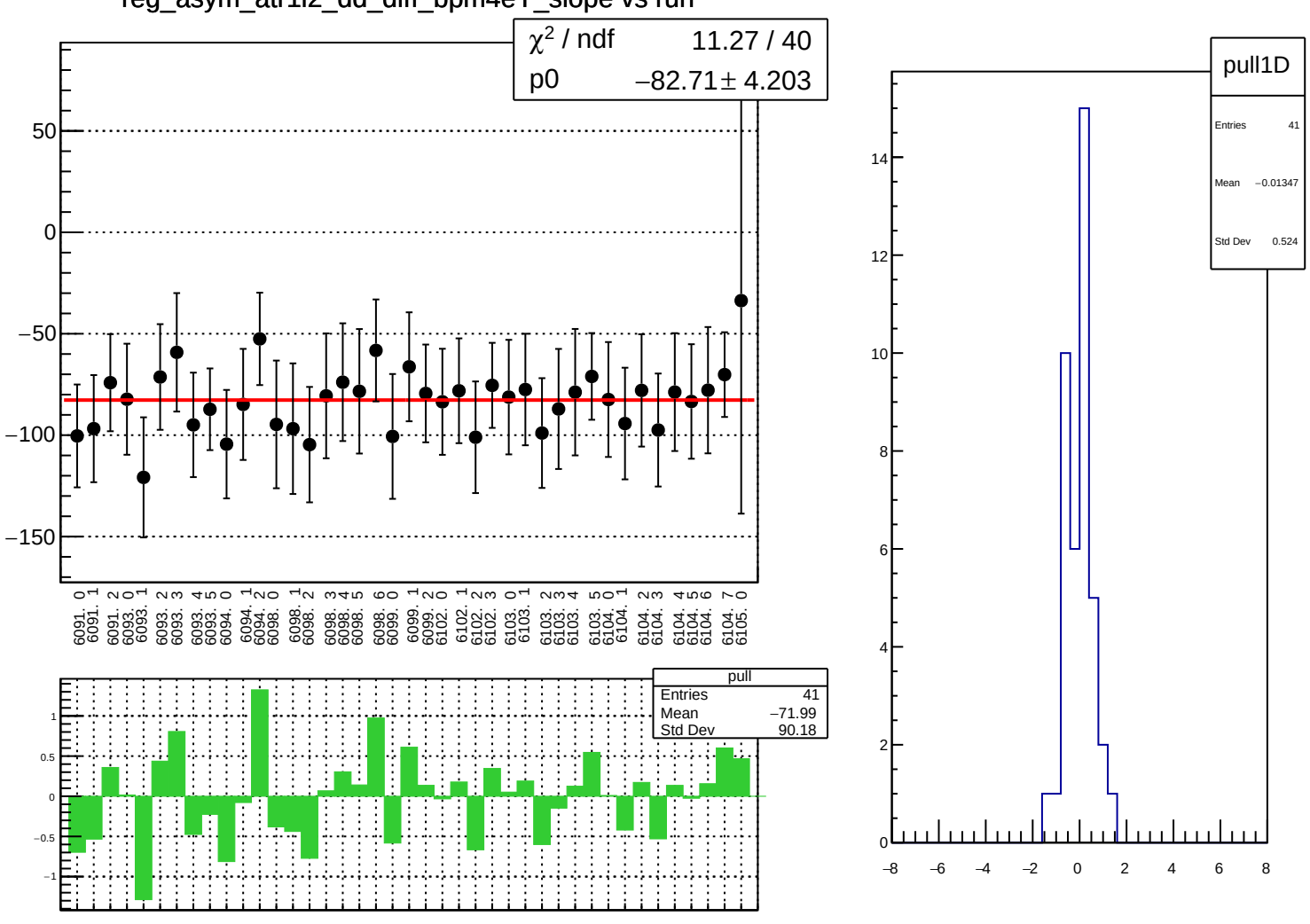

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.98 / 40
p0 162.7 ± 5.957
pull
Entries 41
Mean −142.1
Std Dev 154.2

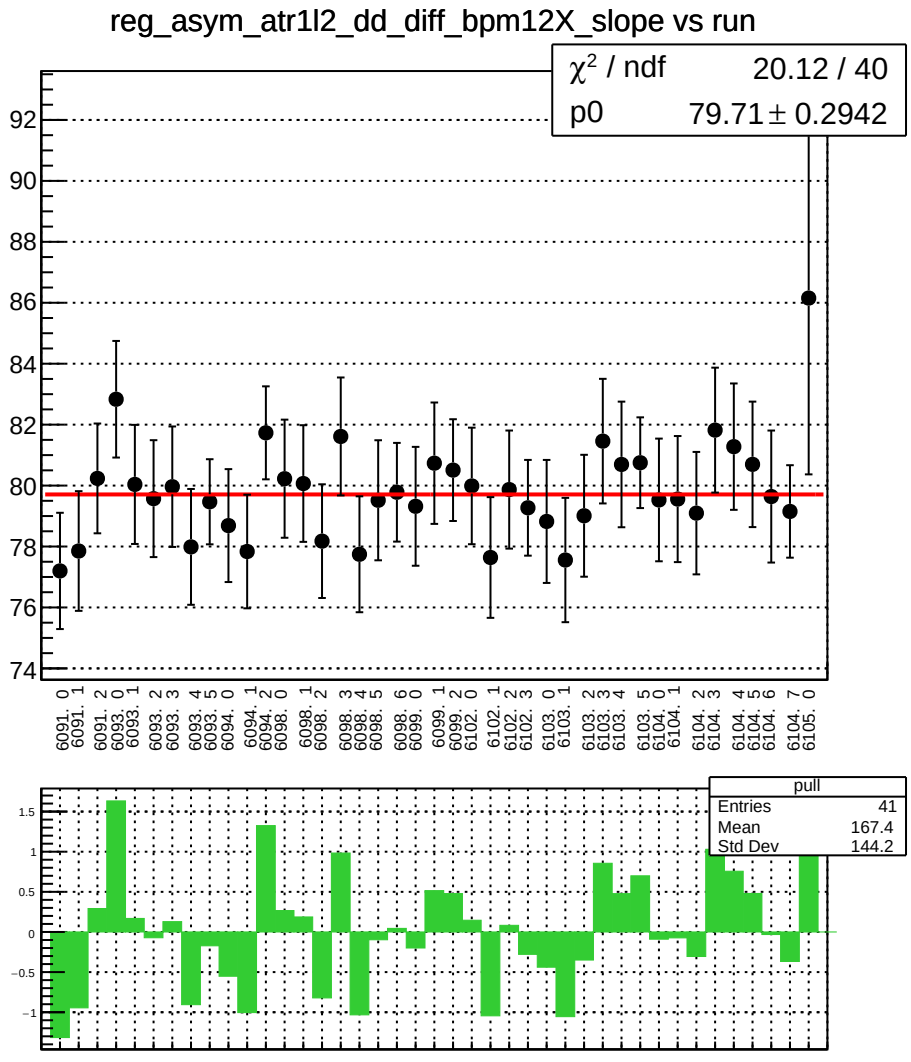

pull1D
Entries 41
Mean 0.01014
Std Dev 0.5839

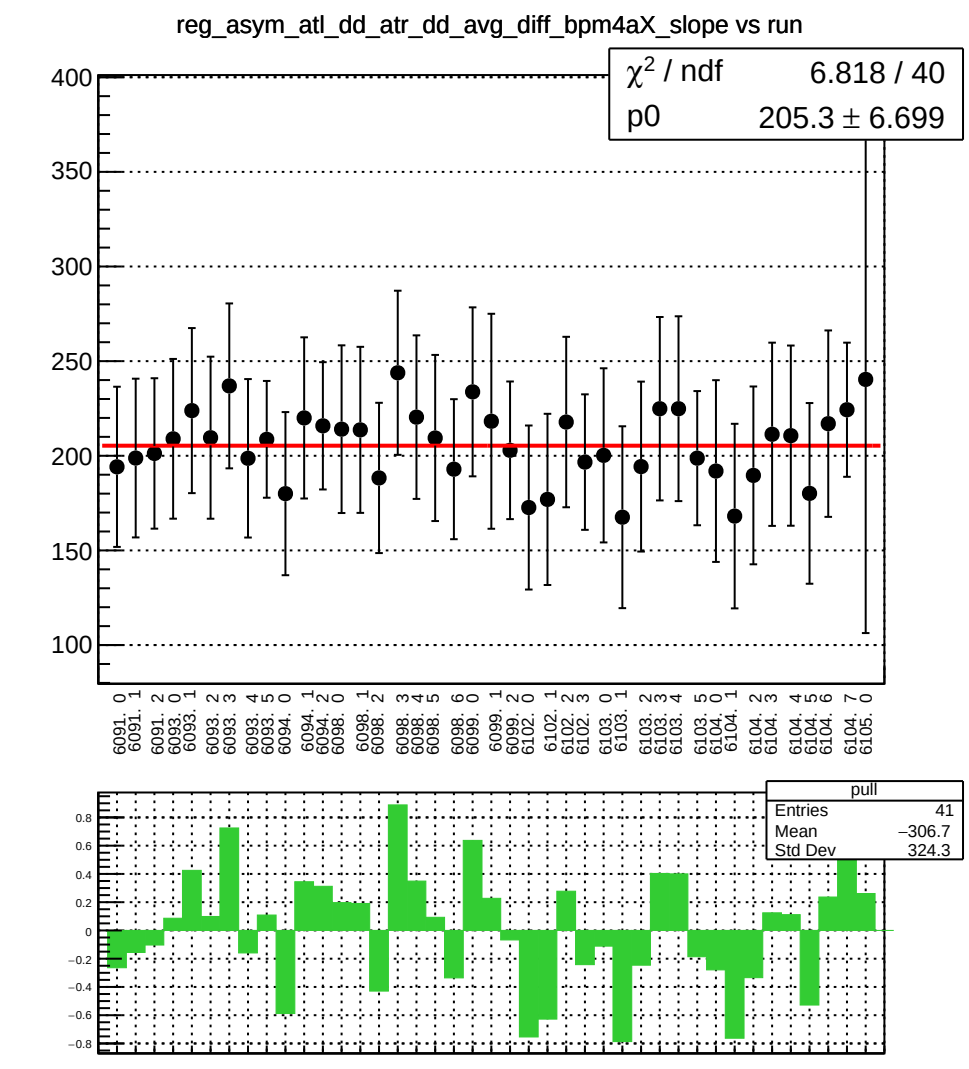

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.1 / 40
p0 21 ± 3.992
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −37.01
Std Dev 55.85
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0151
Std Dev 0.5431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

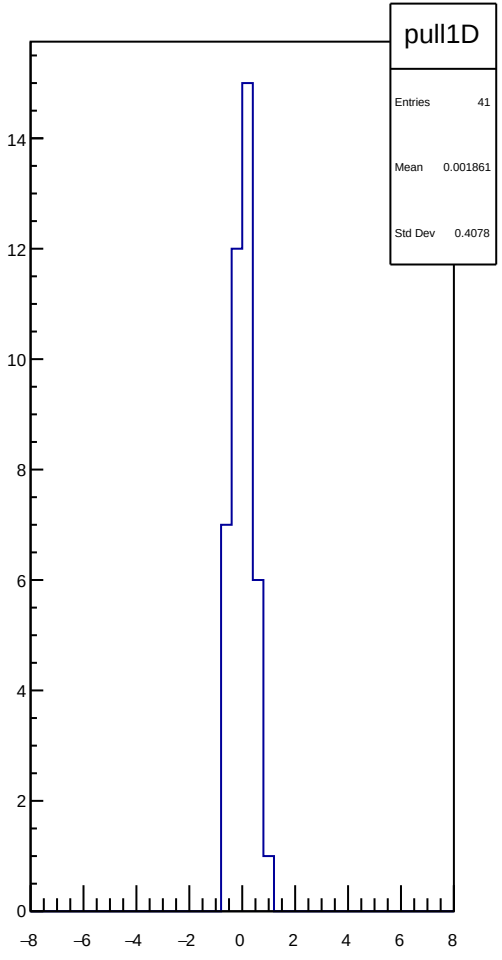

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.45 / 40
p0 −208.3 ± 6.943
−100
−150
−200
−250
−300
−350
−400
−450
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −122.3
Std Dev 134.9
1
0.5
0
−0.5
−1

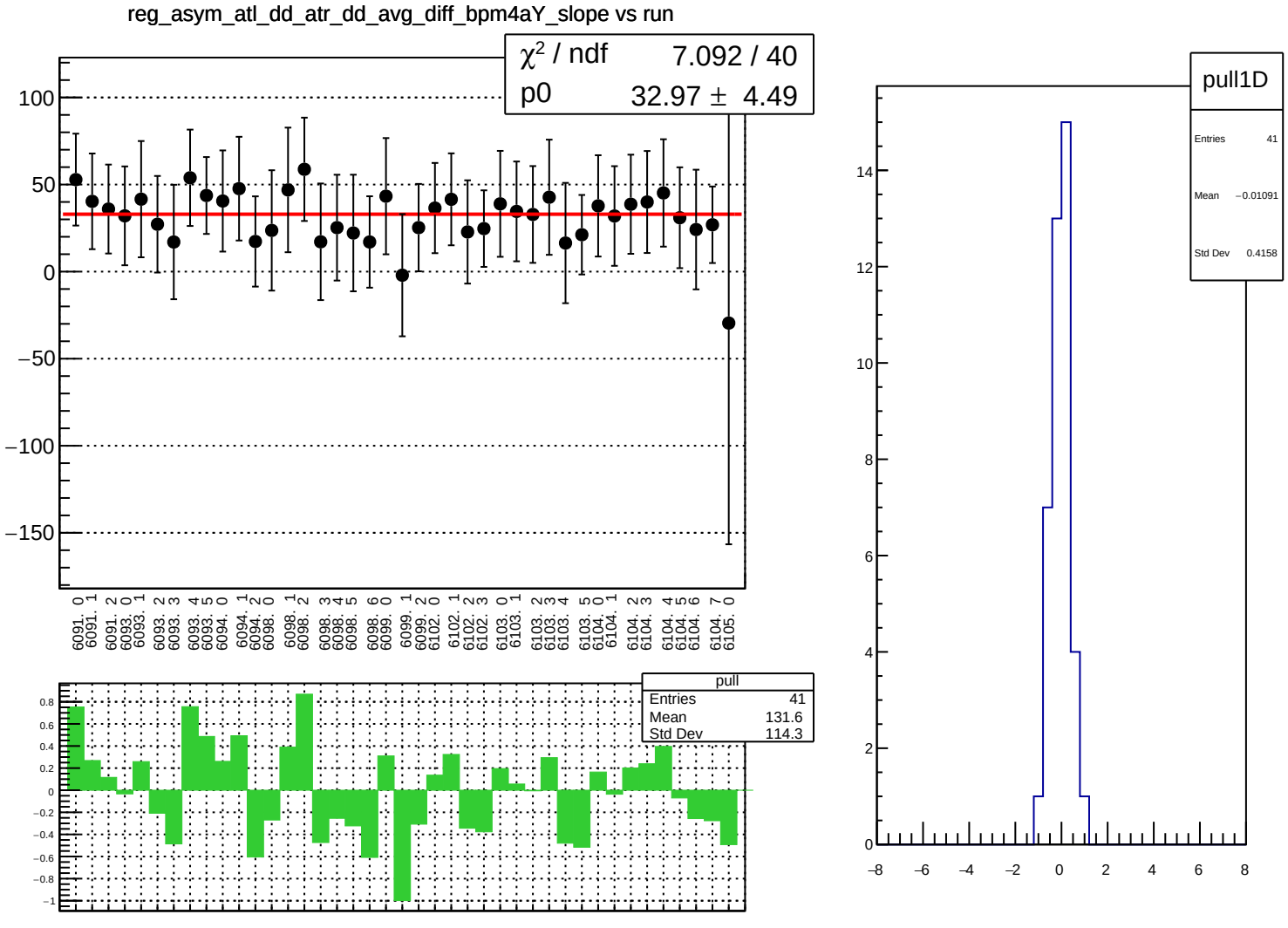

pull1D
Entries 41
Mean −0.01134
Std Dev 0.5726
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

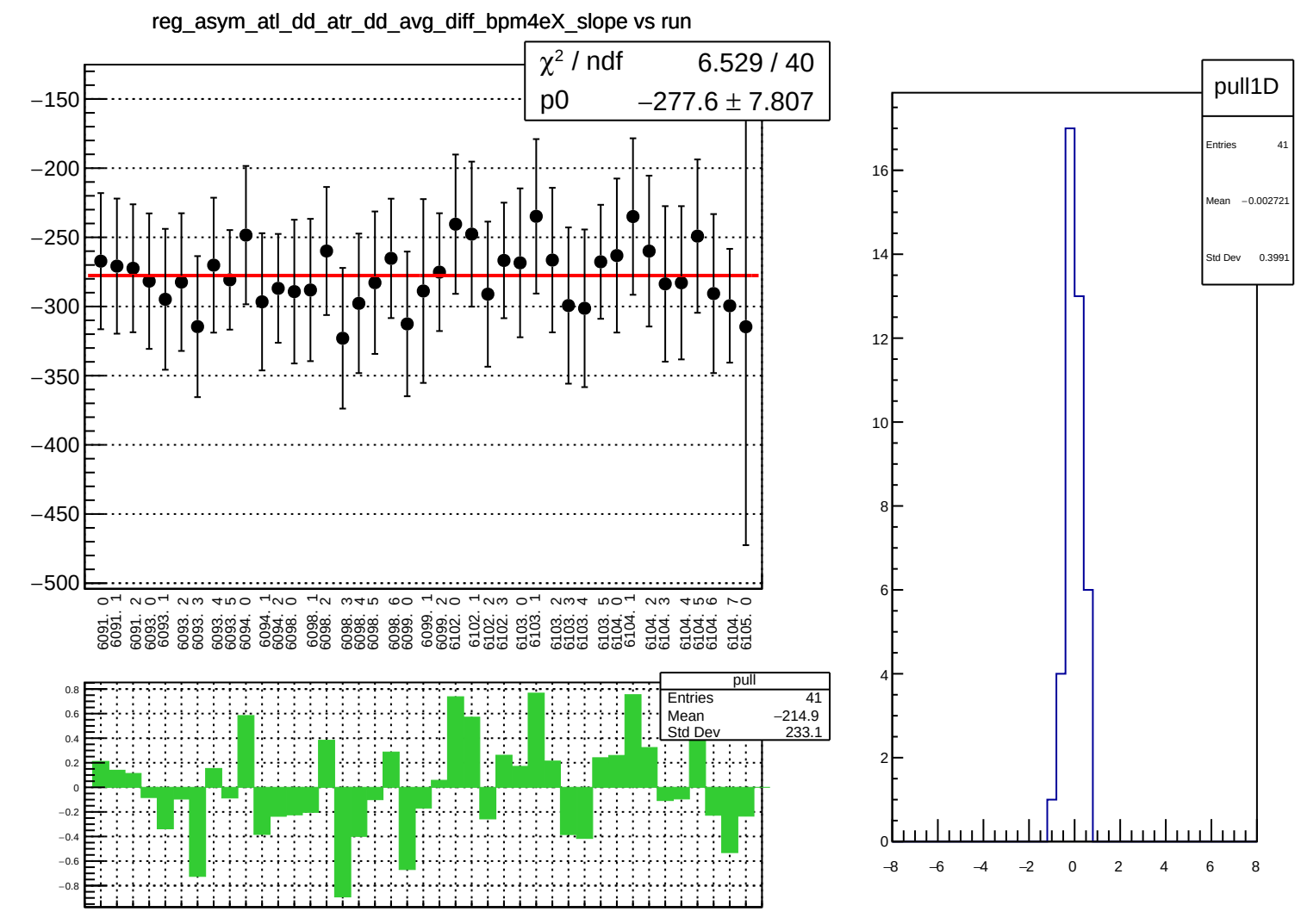

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.27 / 40
p0 −82.71± 4.203
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −71.99
Std Dev 90.18
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.01347
Std Dev 0.524
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

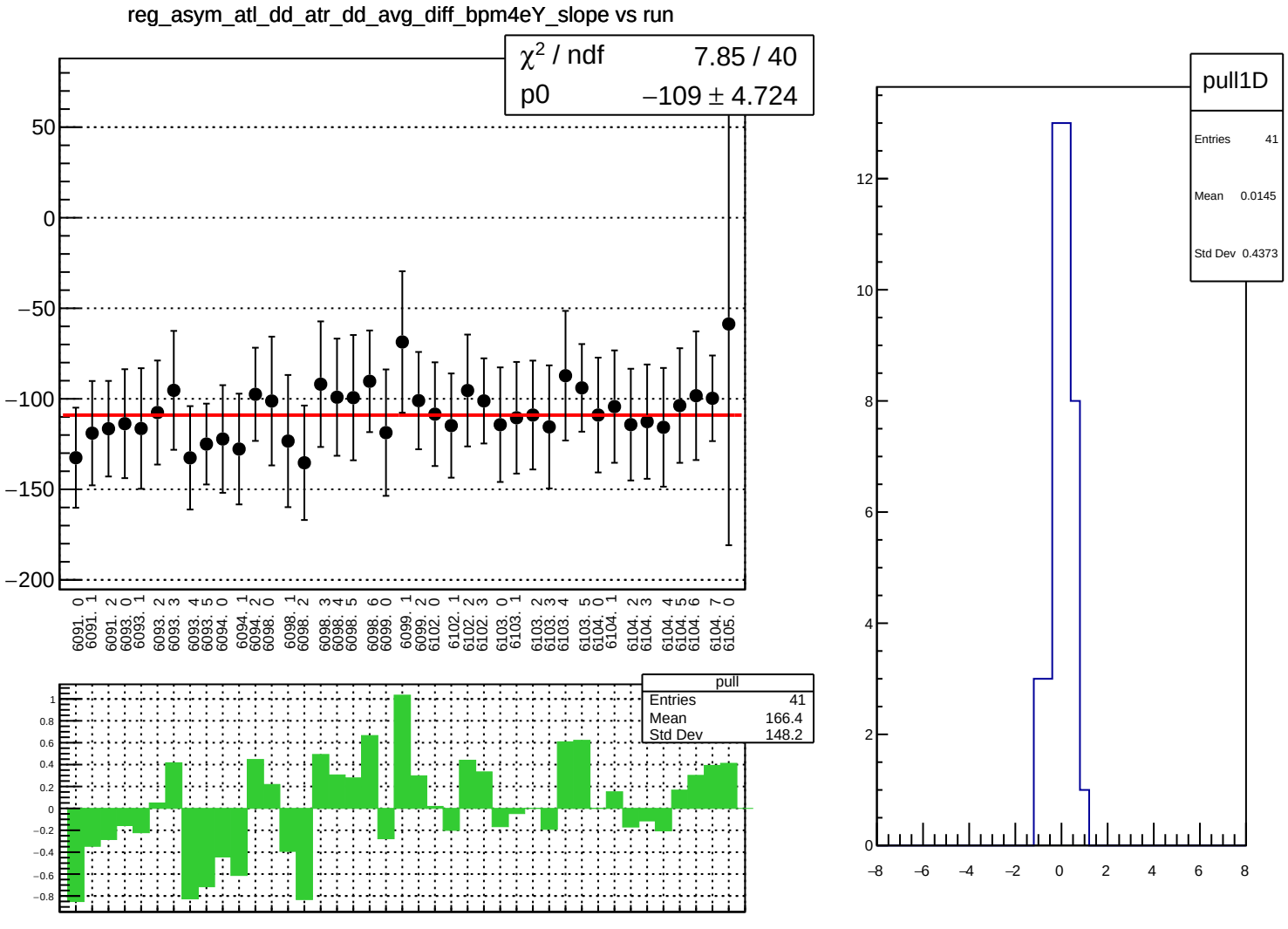

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.12 / 40
p0 79.71 ± 0.2942
92
90
88
86
84
82
80
78
76
74
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 167.4
Std Dev 144.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.01246
Std Dev 0.7005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

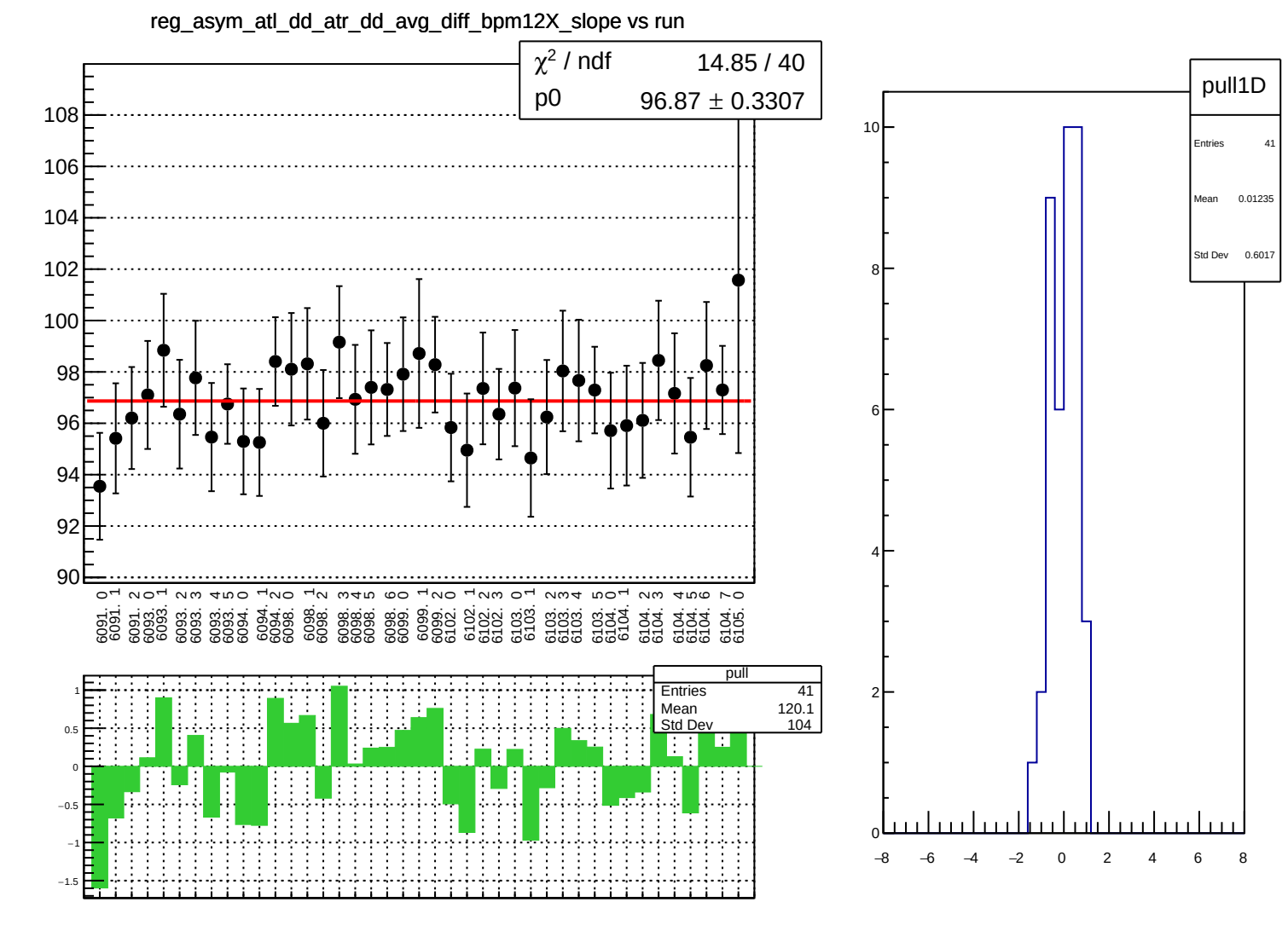

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.818 / 40
p0 205.3 ± 6.699
400
350
300
250
200
150
100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −306.7
Std Dev 324.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

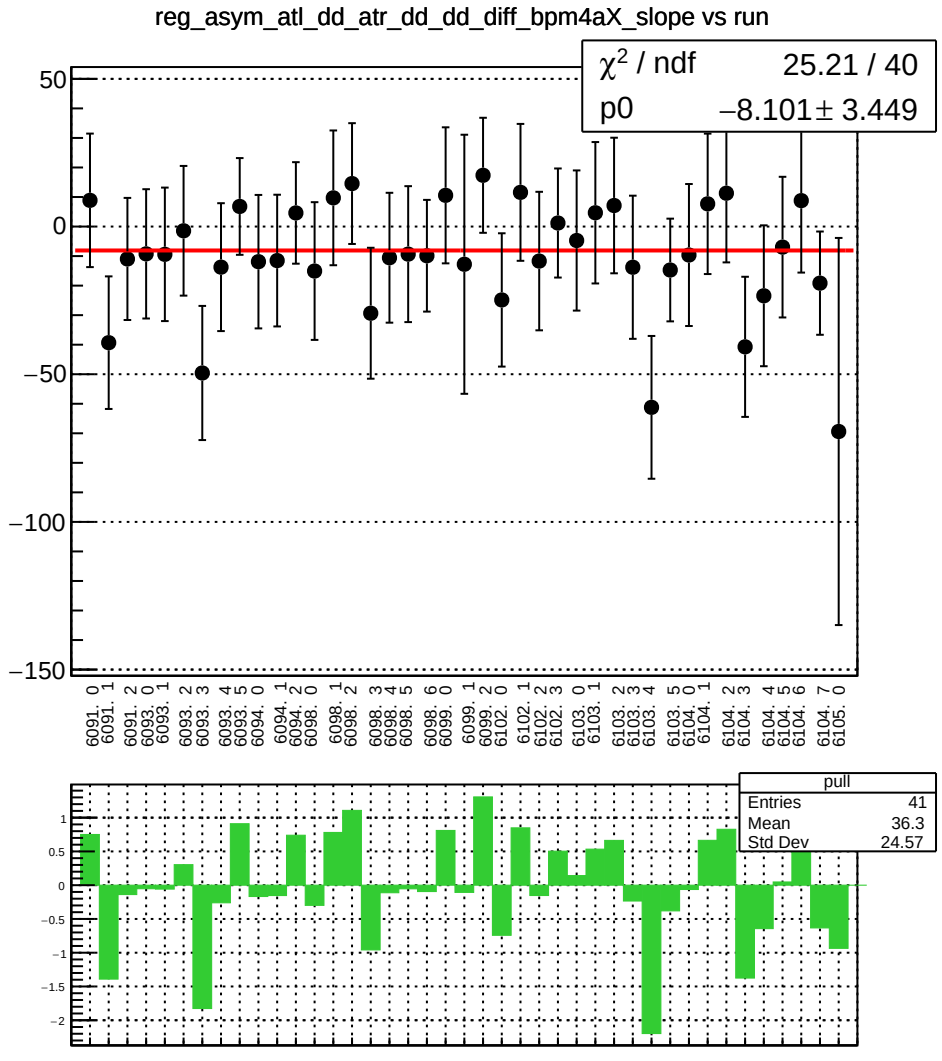

pull1D
Entries 41
Mean 0.001861
Std Dev 0.4078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

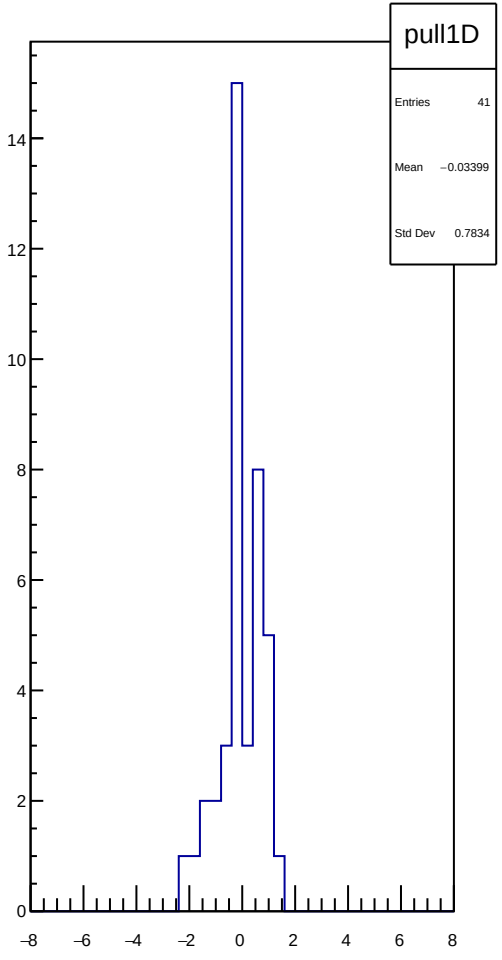

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.092 / 40
p0 32.97 ± 4.49
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 131.6
Std Dev 114.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean −0.01091
Std Dev 0.4158
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

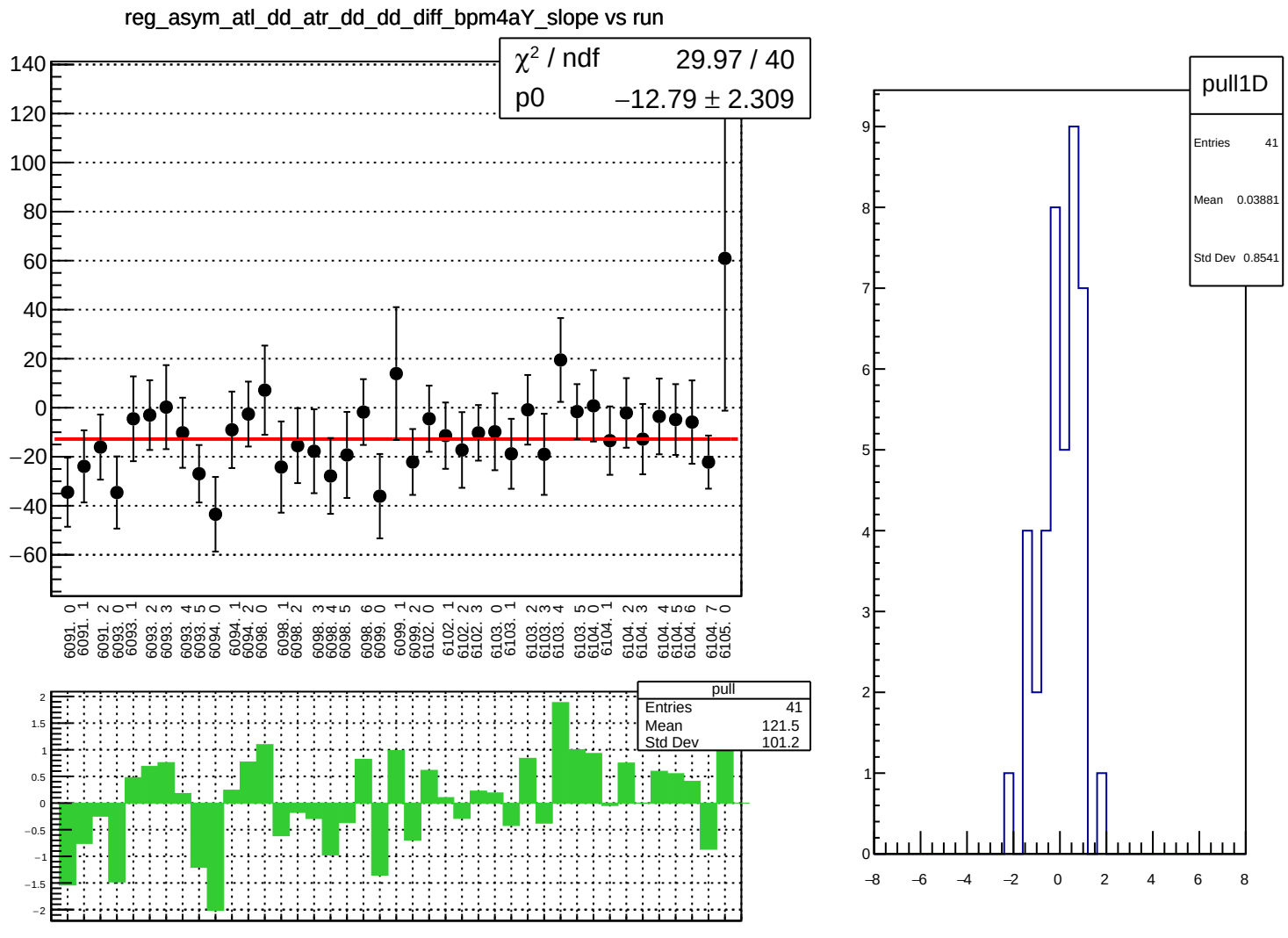

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.529 / 40
p0 −277.6 ± 7.807
−150
−200
−250
−300
−350
−400
−450
−500
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −214.9
Std Dev 233.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.002721
Std Dev 0.3991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

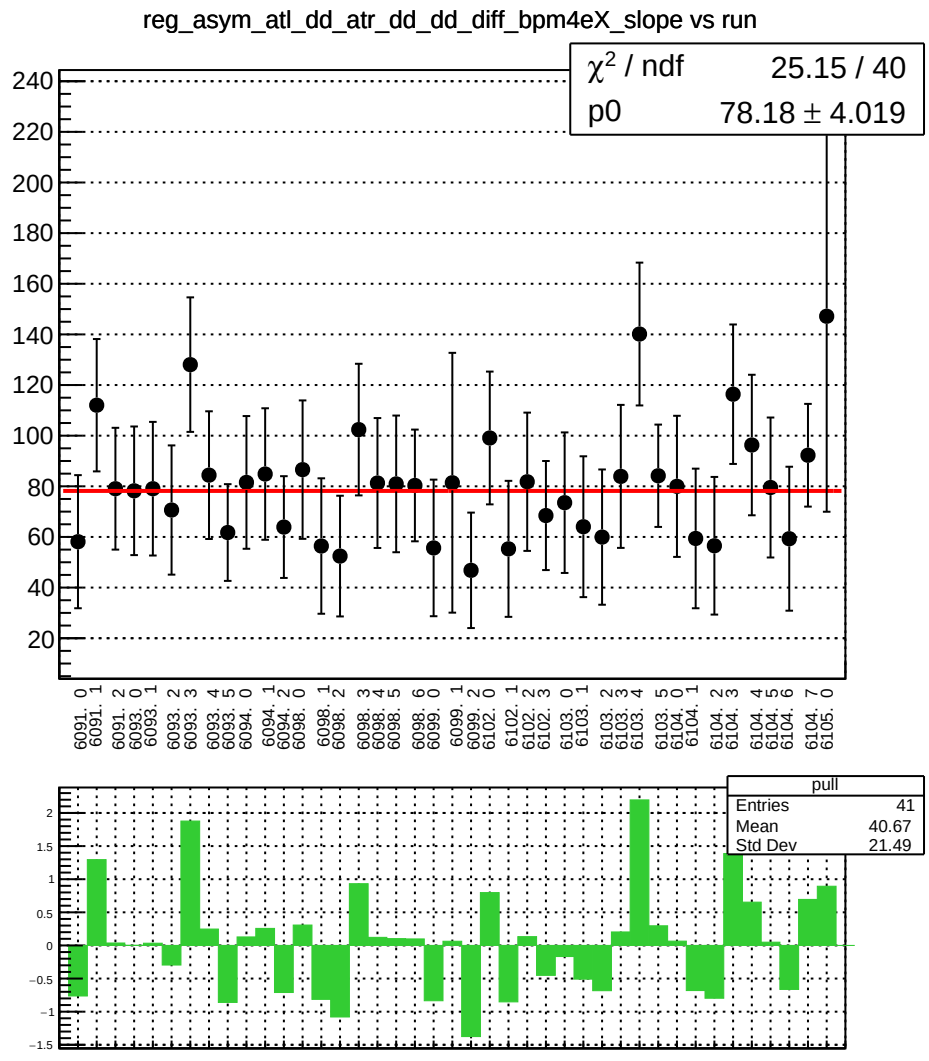

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.85 / 40
p0 −109 ± 4.724
50
0
−50
−100
−150
−200
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 166.4
Std Dev 148.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.0145
Std Dev 0.4373
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

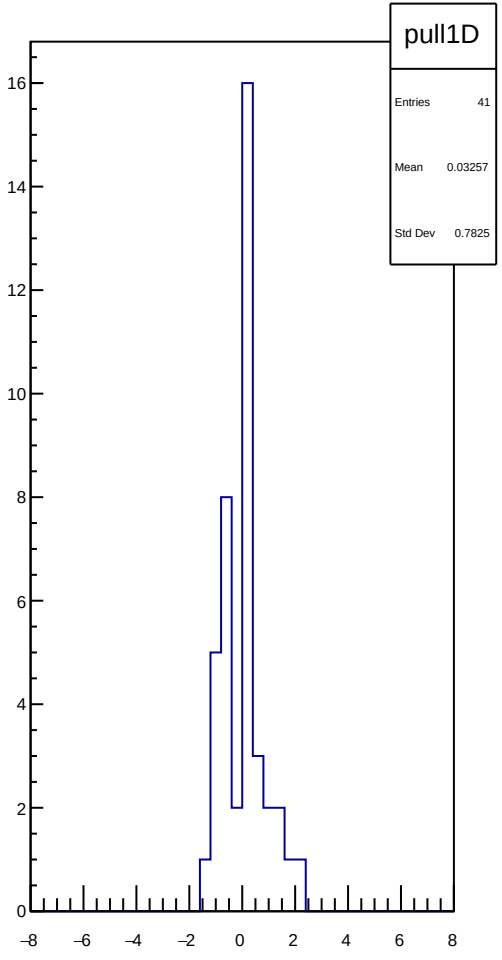

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 14.85 / 40
p0 96.87 ± 0.3307
pull
Entries 41
Mean 120.1
Std Dev 104
pull1D
Entries 41
Mean 0.01235
Std Dev 0.6017

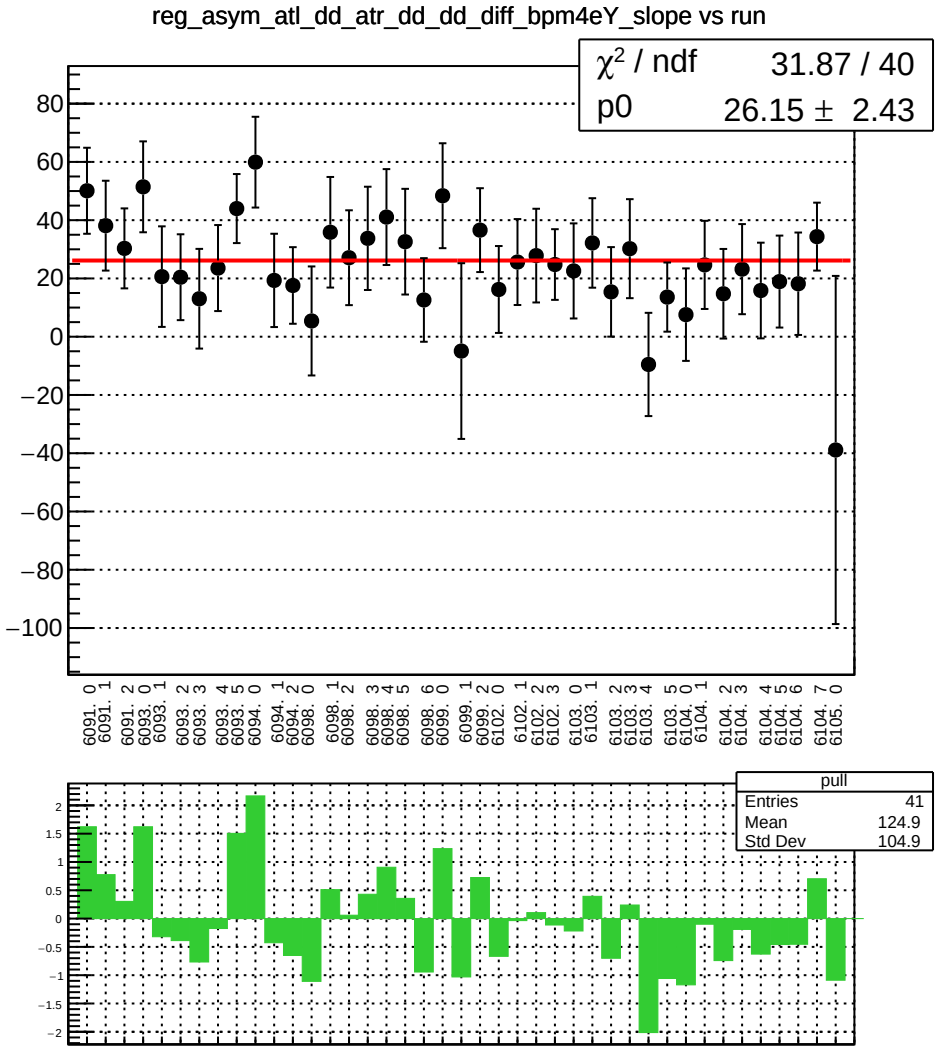

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.21 / 40
p0 −8.101 ± 3.449
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 36.3
Std Dev 24.57
1
0.5
0
−0.5
−1
−1.5
−2

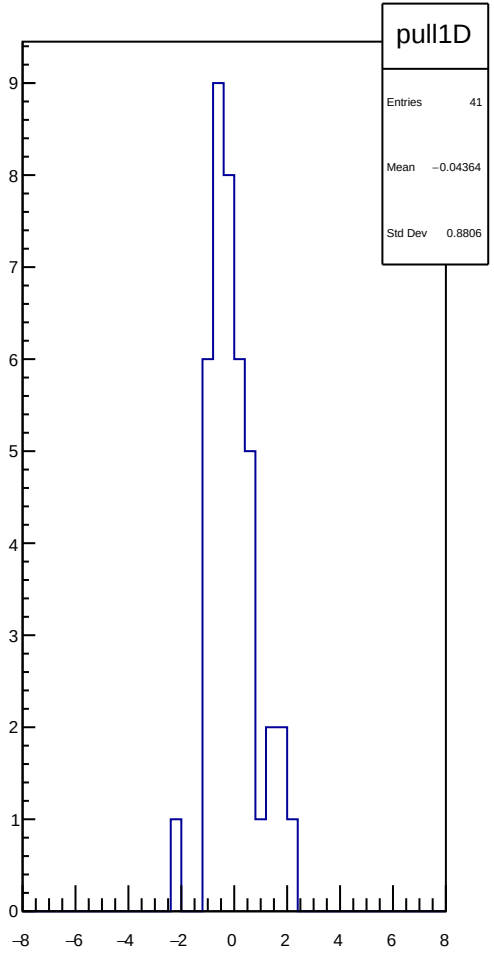

pull1D
Entries 41
Mean −0.03399
Std Dev 0.7834
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

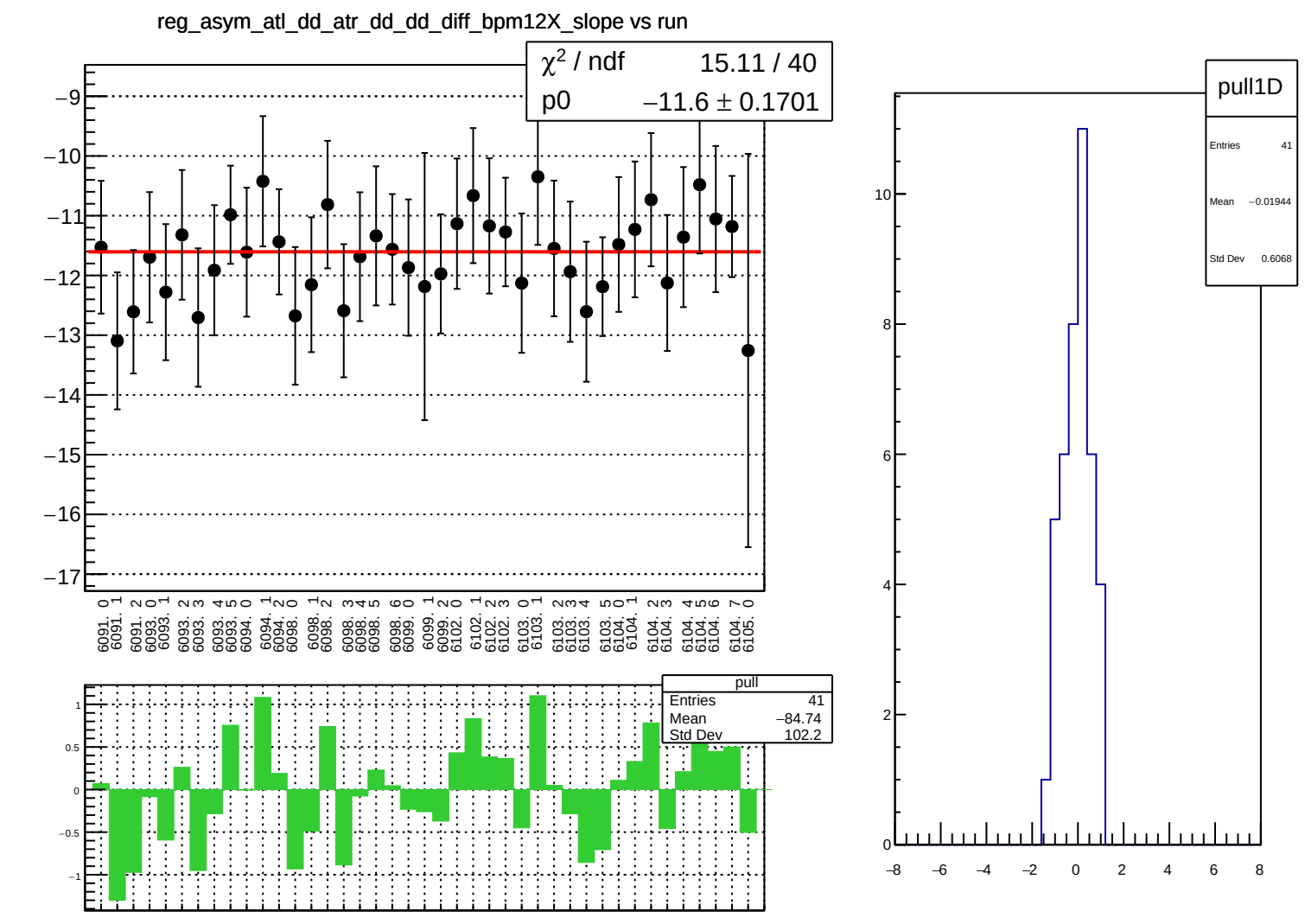

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.97 / 40
p0 −12.79 ± 2.309
pull
Entries 41
Mean 121.5
Std Dev 101.2
pull1D
Entries 41
Mean 0.03881
Std Dev 0.8541

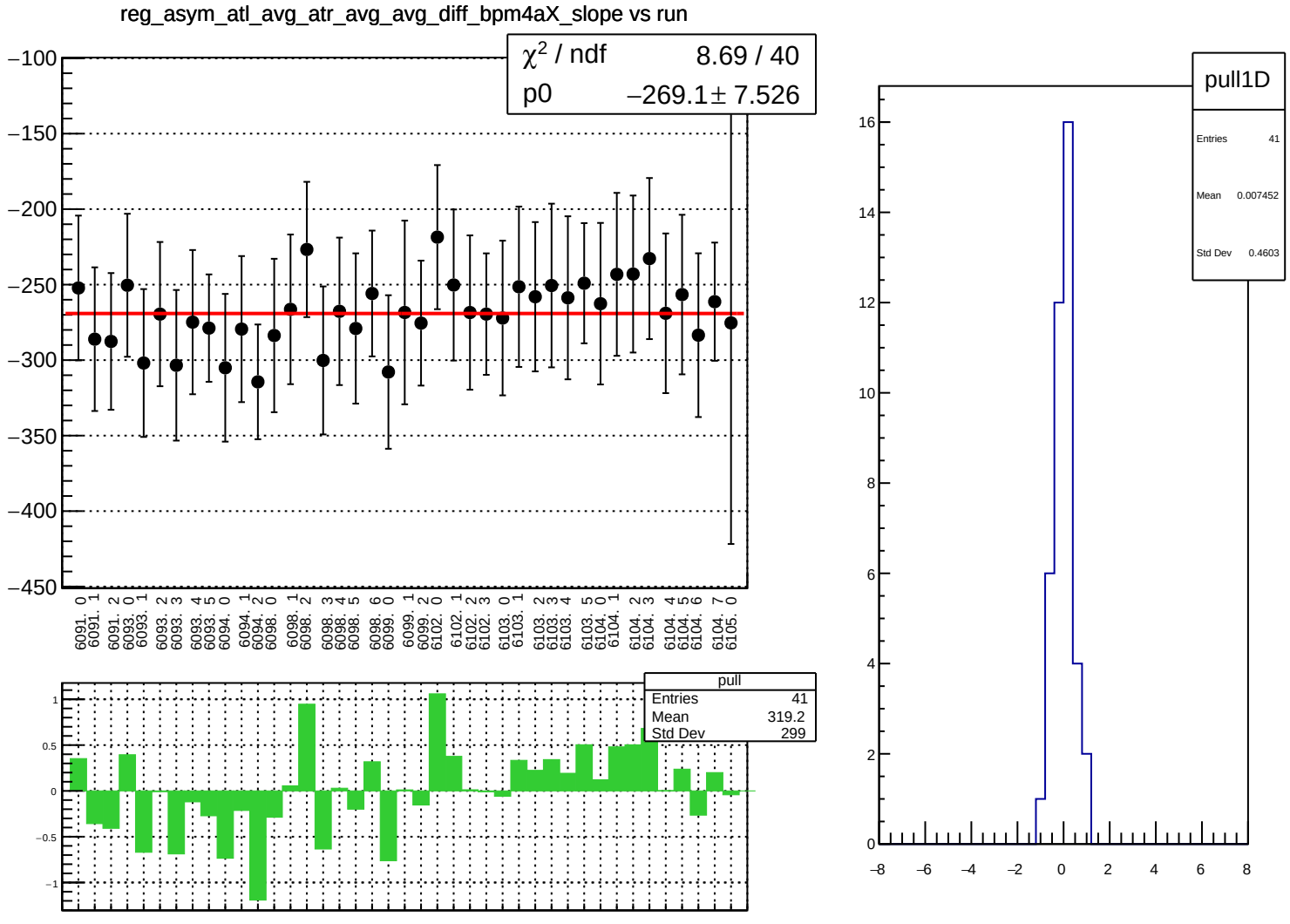

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.15 / 40
p0 78.18 ± 4.019
pull
Entries 41
Mean 40.67
Std Dev 21.49

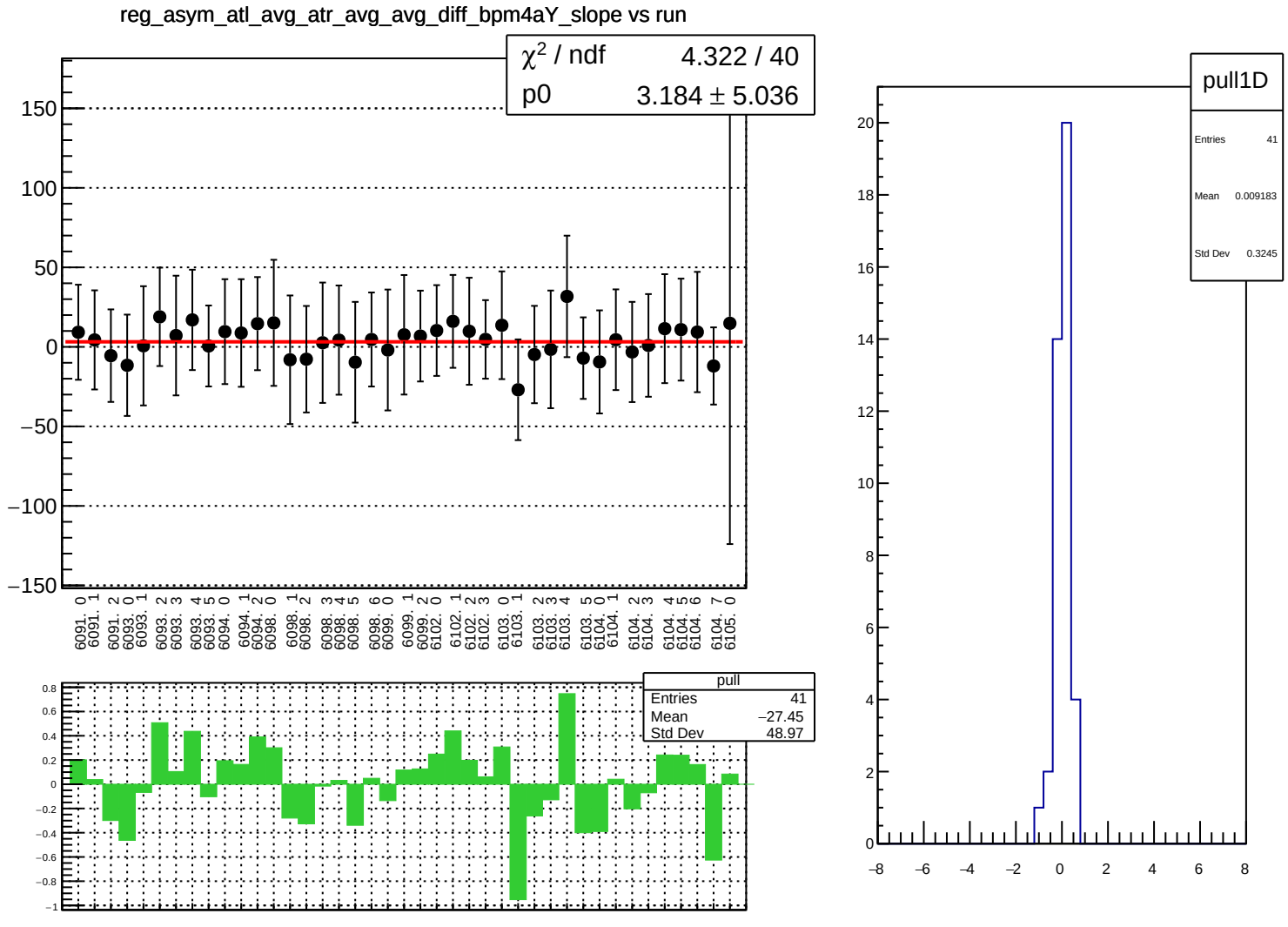

pull1D
Entries 41
Mean 0.03257
Std Dev 0.7825

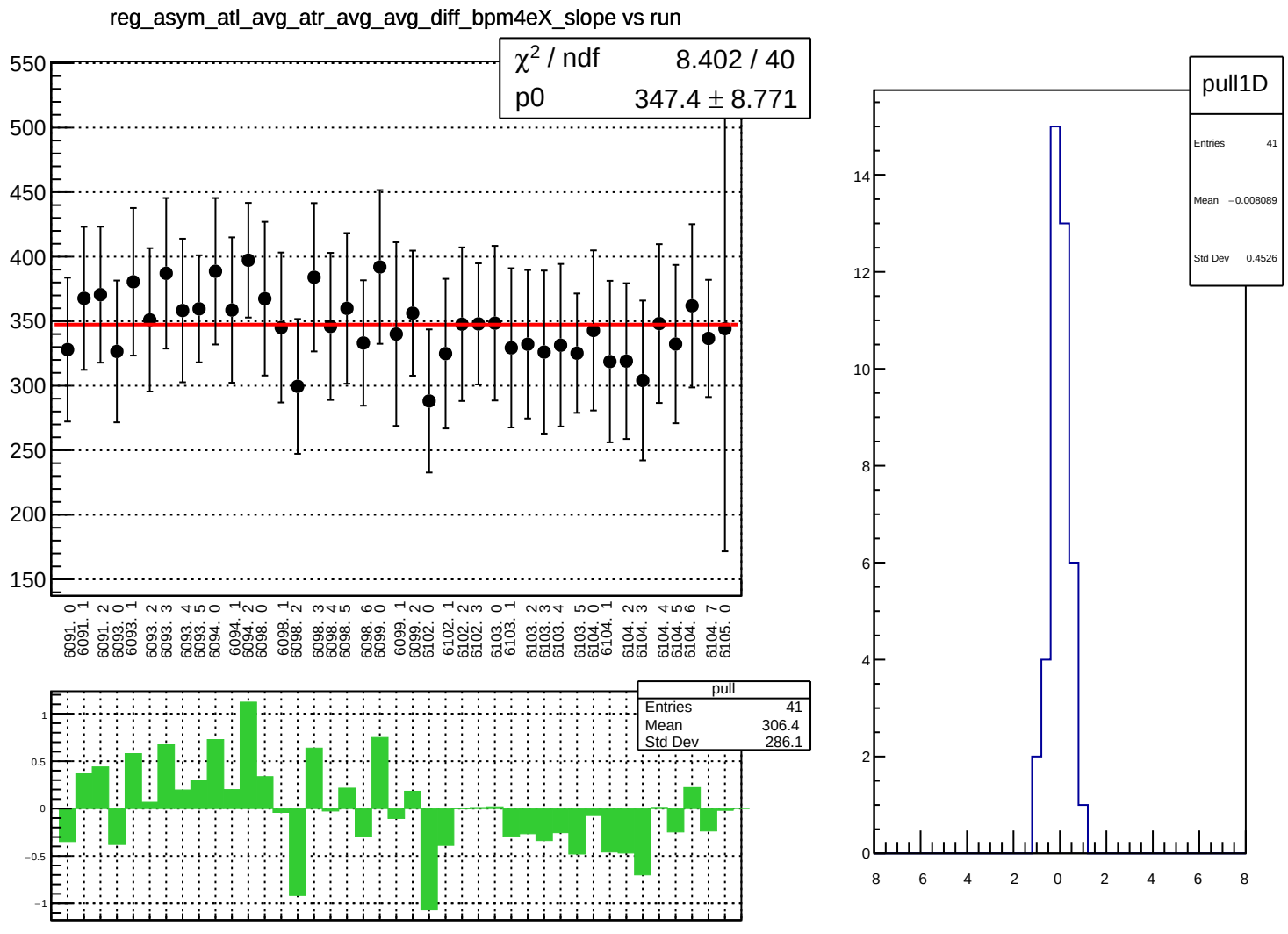

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.87 / 40
p0 26.15 ± 2.43
pull
Entries 41
Mean 124.9
Std Dev 104.9

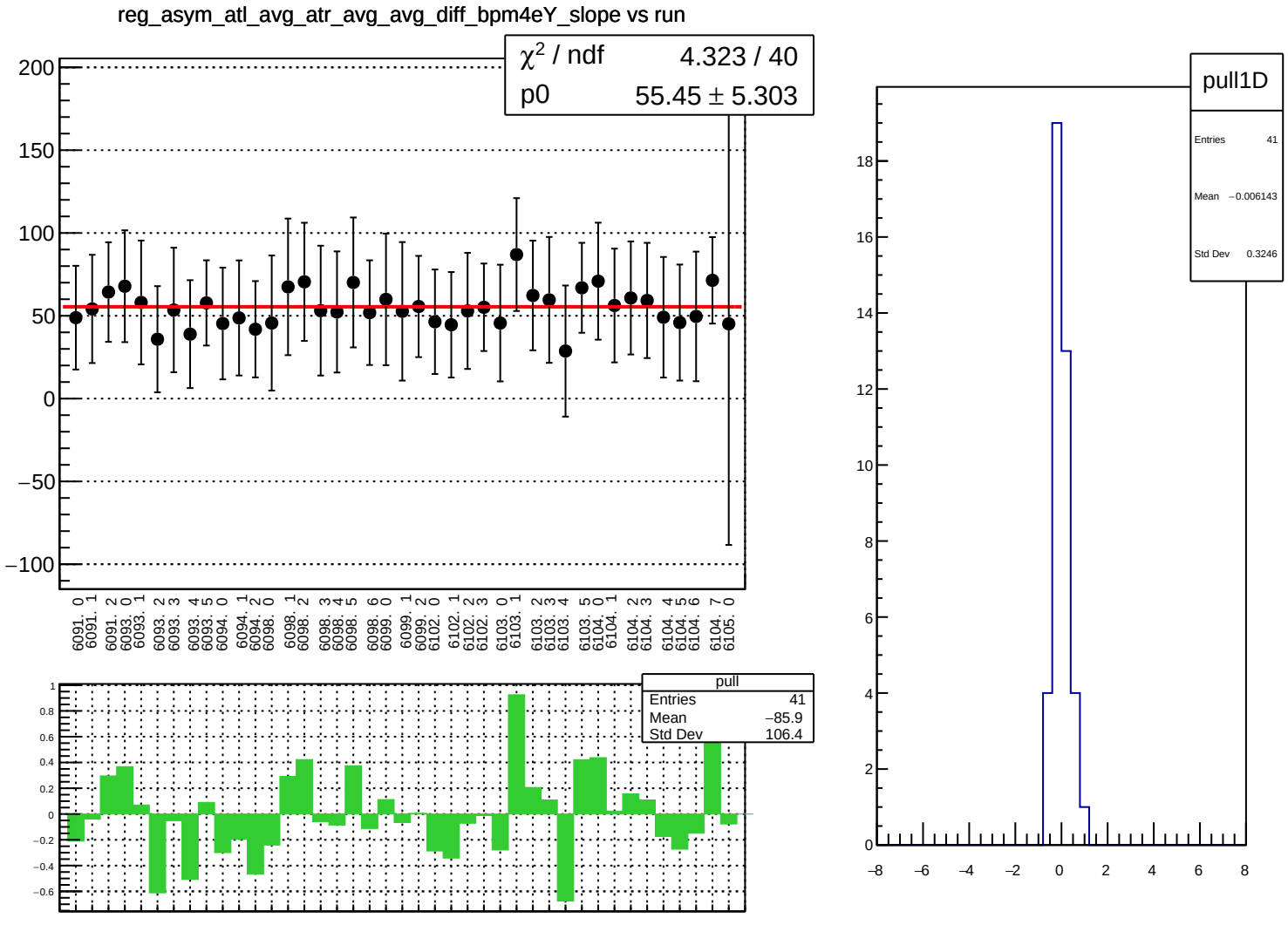

pull1D
Entries 41
Mean −0.04364
Std Dev 0.8806

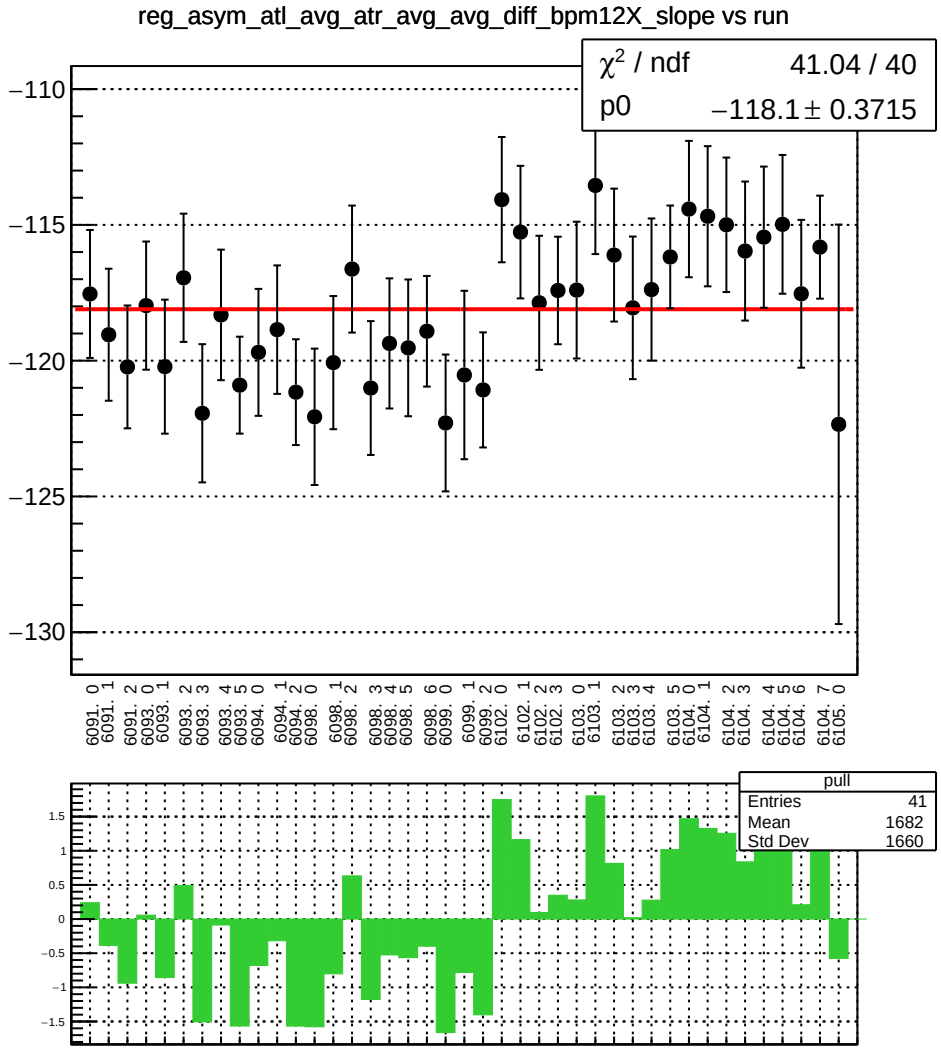

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 15.11 / 40
p0 −11.6 ± 0.1701
pull
Entries 41
Mean −84.74
Std Dev 102.2
pull1D
Entries 41
Mean −0.01944
Std Dev 0.6068

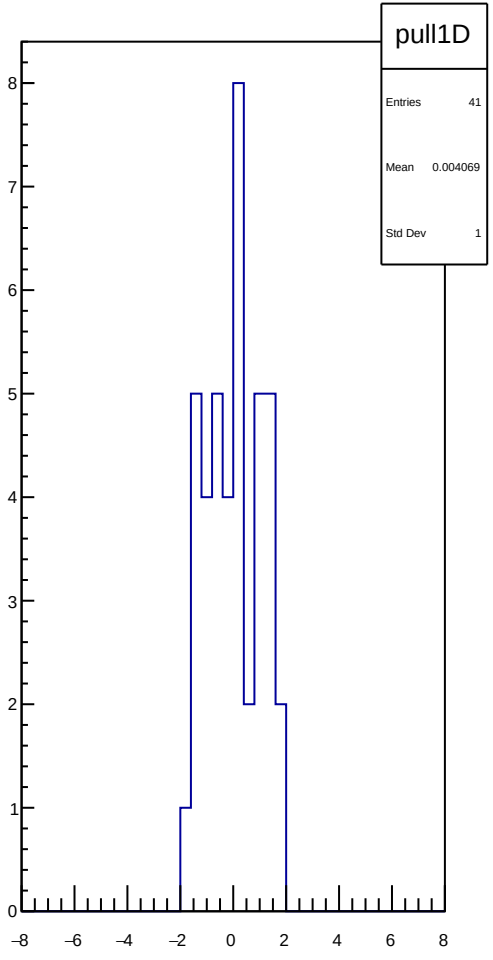

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.69 / 40
p0 −269.1± 7.526
−100
−150
−200
−250
−300
−350
−400
−450
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 319.2
Std Dev 299
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.007452
Std Dev 0.4603
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

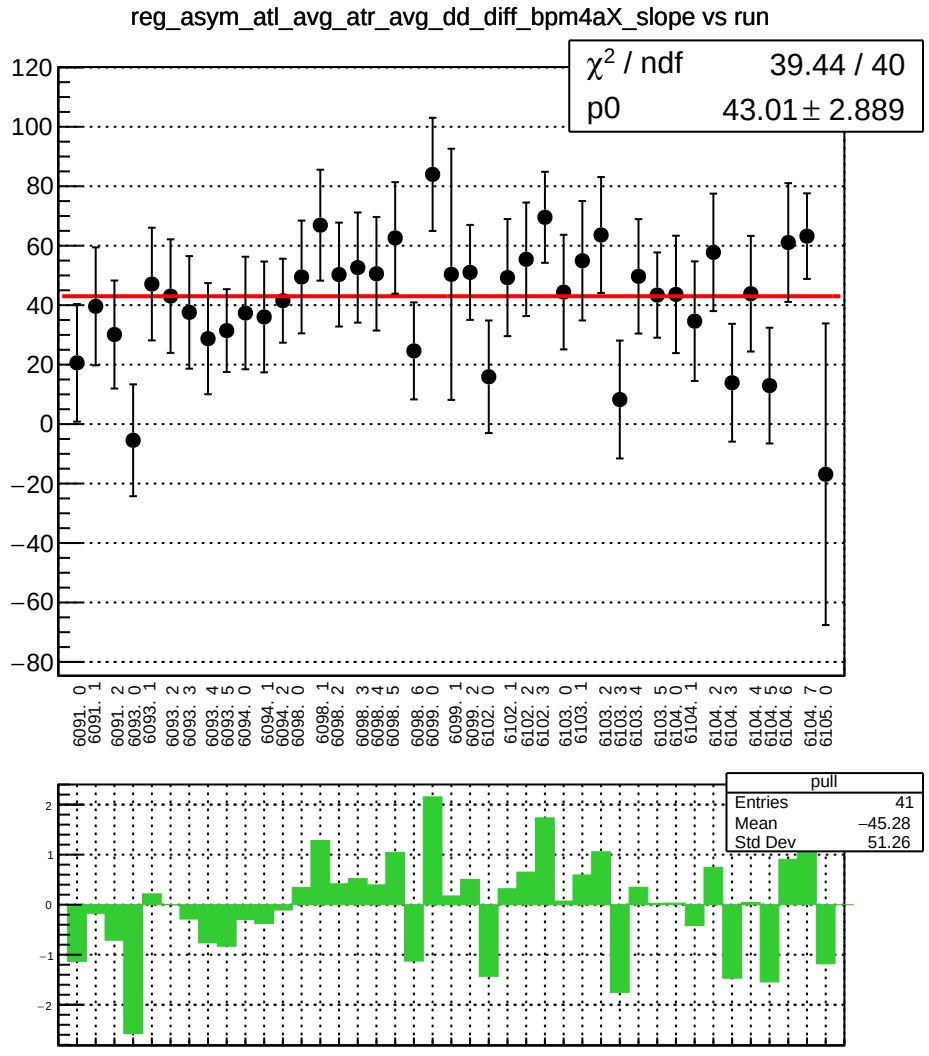

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.322 / 40
p0 3.184 ± 5.036
150
100
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −27.45
Std Dev 48.97
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.009183
Std Dev 0.3245
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

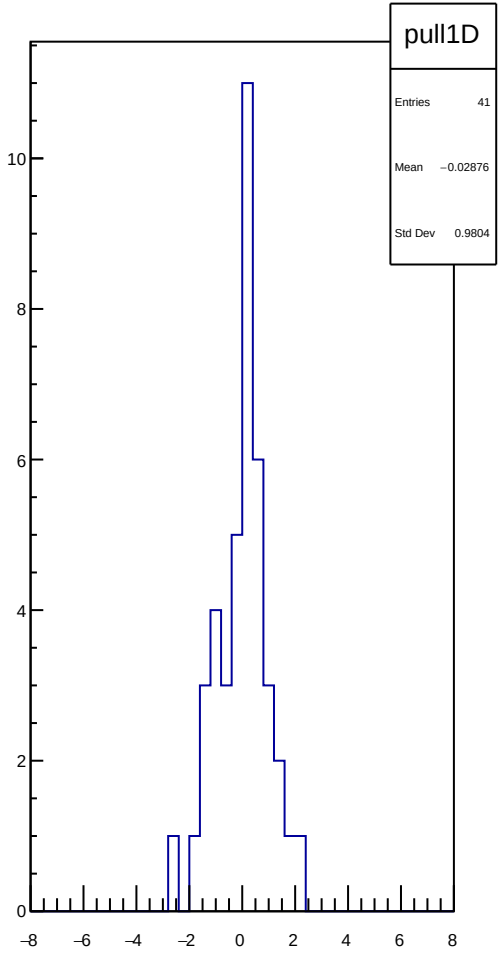

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.402 / 40
p0 347.4 ± 8.771
pull
Entries 41
Mean 306.4
Std Dev 286.1
pull1D
Entries 41
Mean −0.008089
Std Dev 0.4526

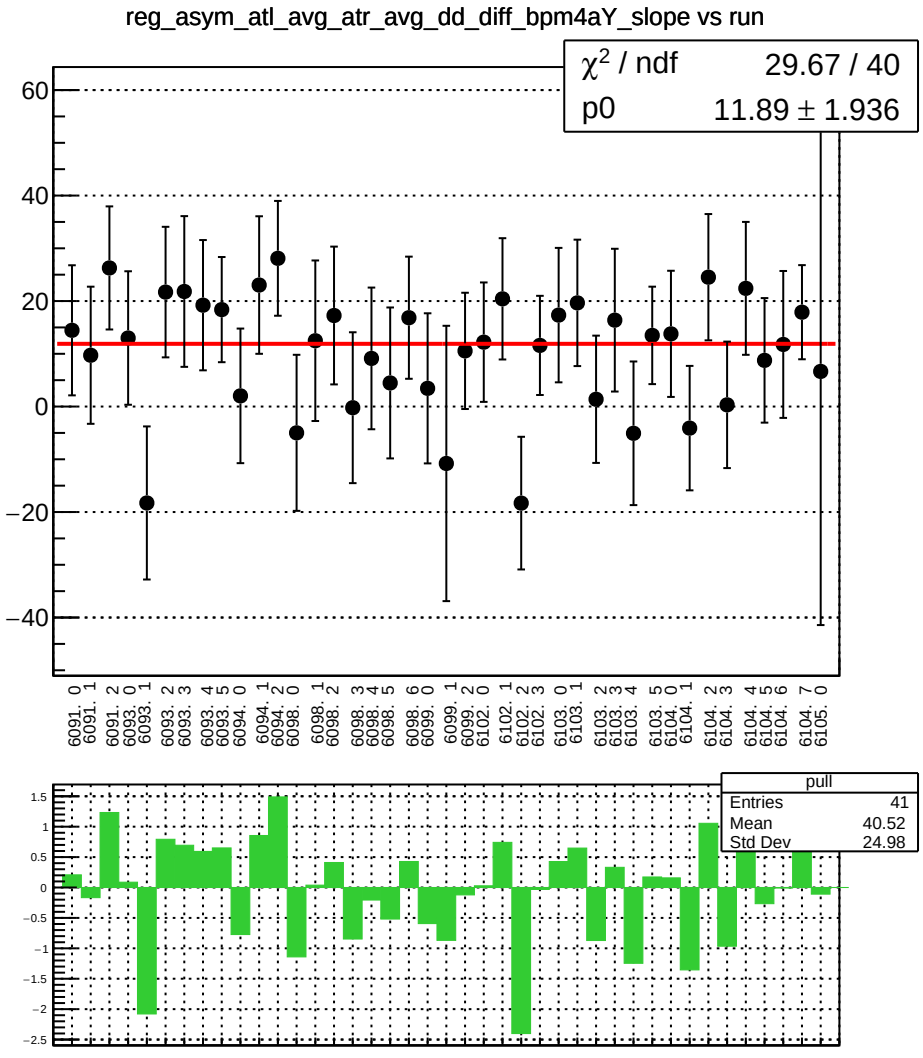

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.323 / 40
p0 55.45 ± 5.303
200
150
100
50
0
−50
−100
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −85.9
Std Dev 106.4
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean −0.006143
Std Dev 0.3246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

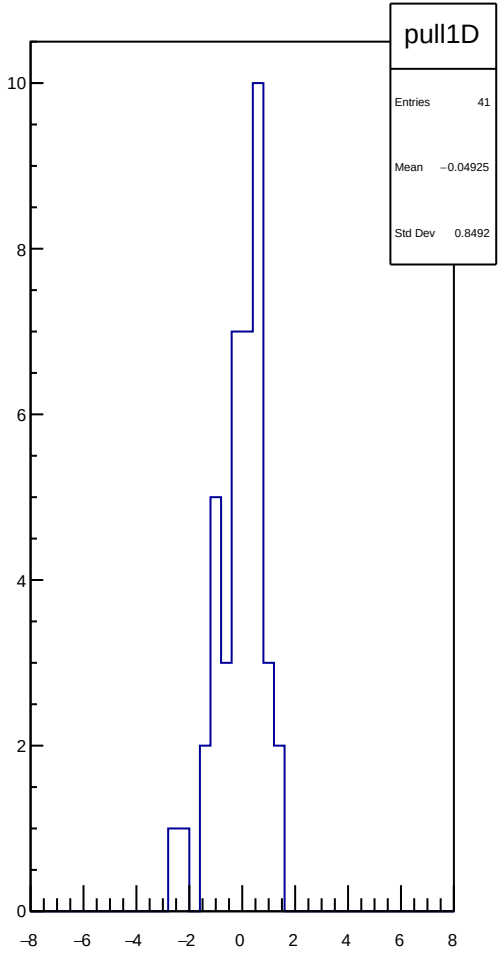

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 41.04 / 40
p0 −118.1 ± 0.3715
−110
−115
−120
−125
−130
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 1682
Std Dev 1660
1.5
1
0.5
0
−0.5
−1
−1.5

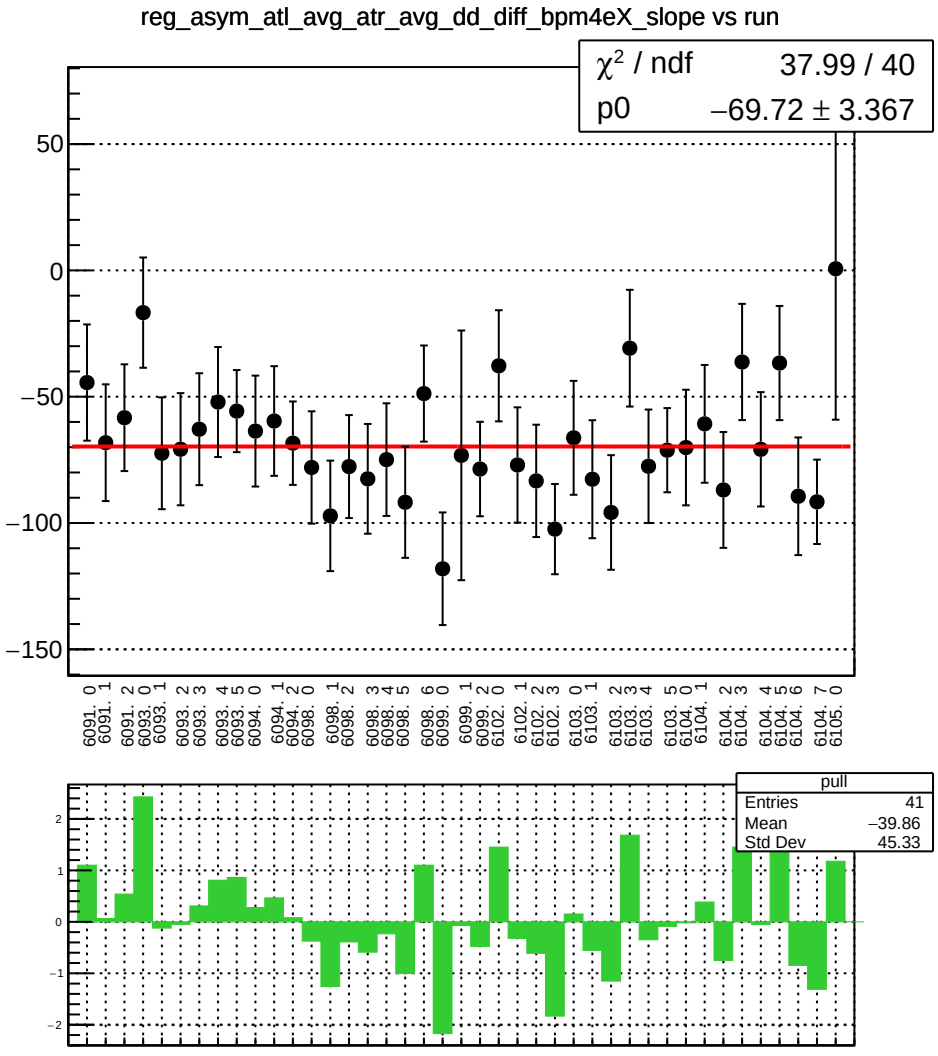

pull1D
Entries 41
Mean 0.004069
Std Dev 1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

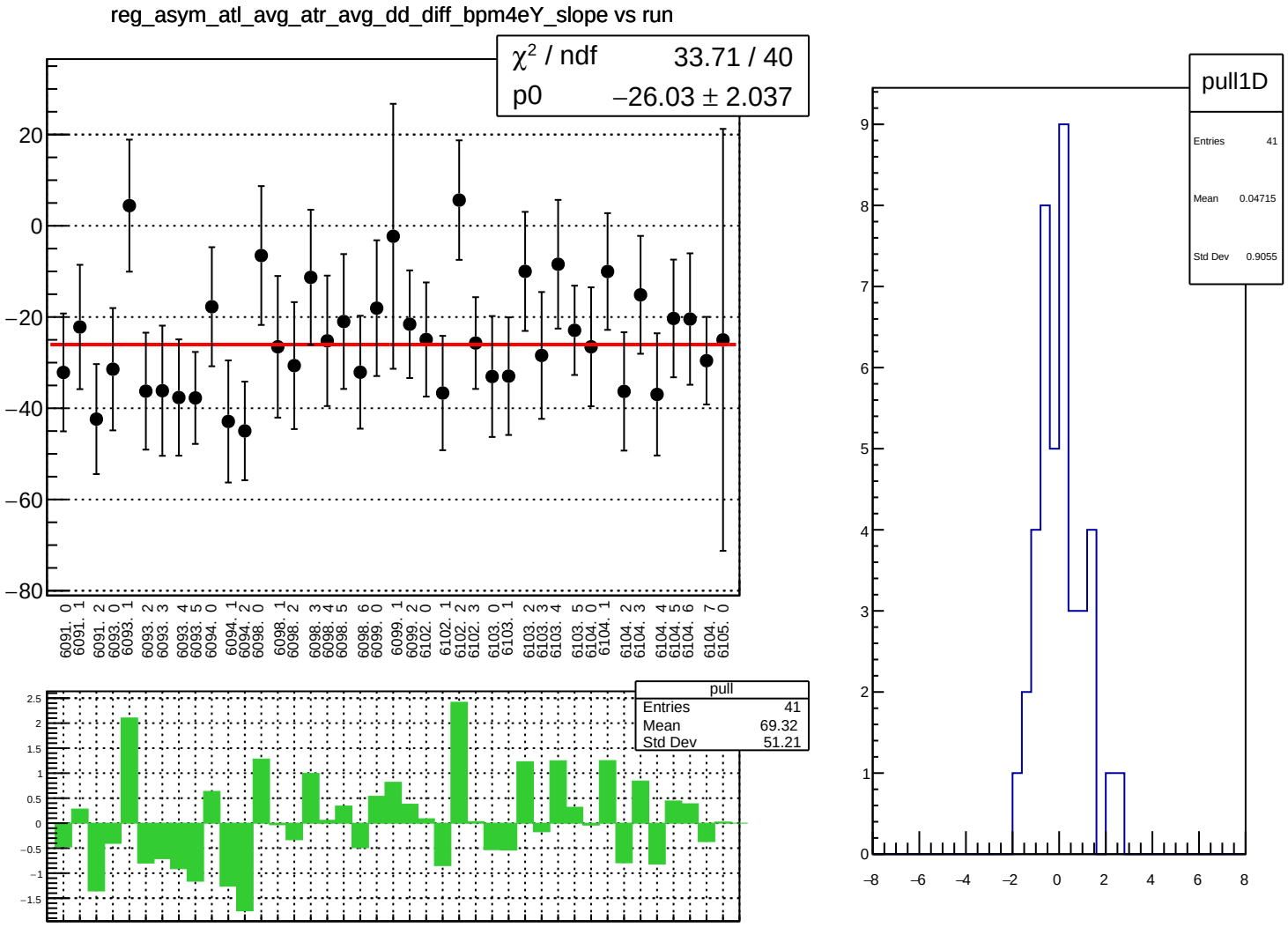

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.44 / 40
p0 43.01 ± 2.889
pull
Entries 41
Mean −45.28
Std Dev 51.26

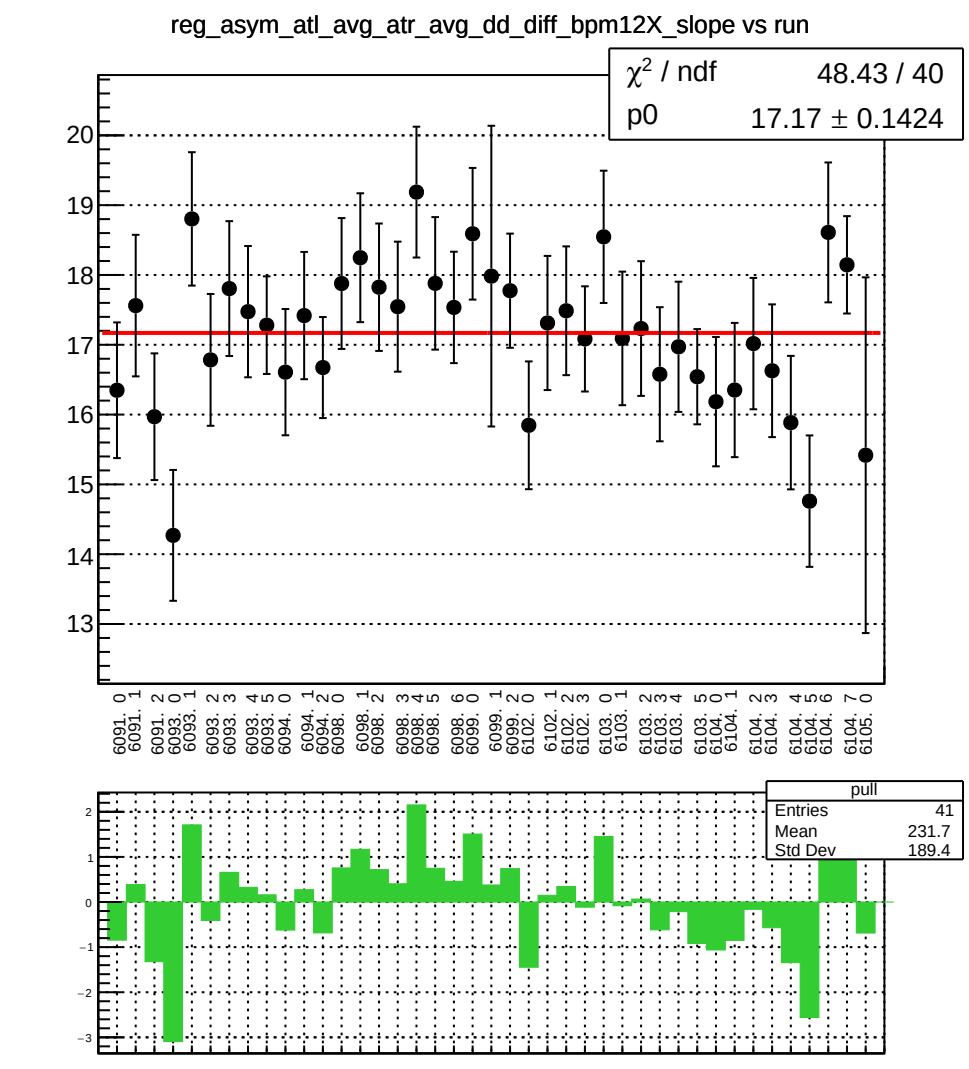

pull1D
Entries 41
Mean −0.02876
Std Dev 0.9804

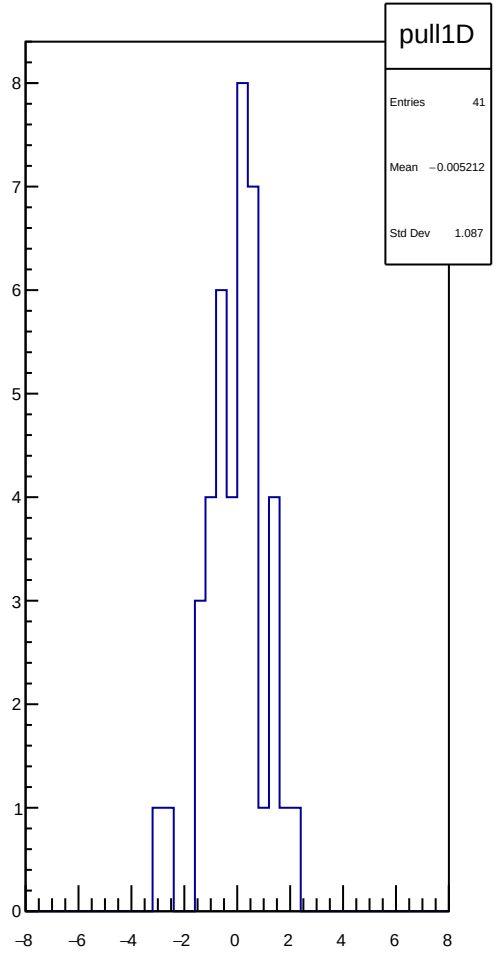

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.67 / 40
p0 11.89 ± 1.936
pull
Entries 41
Mean 40.52
Std Dev 24.98

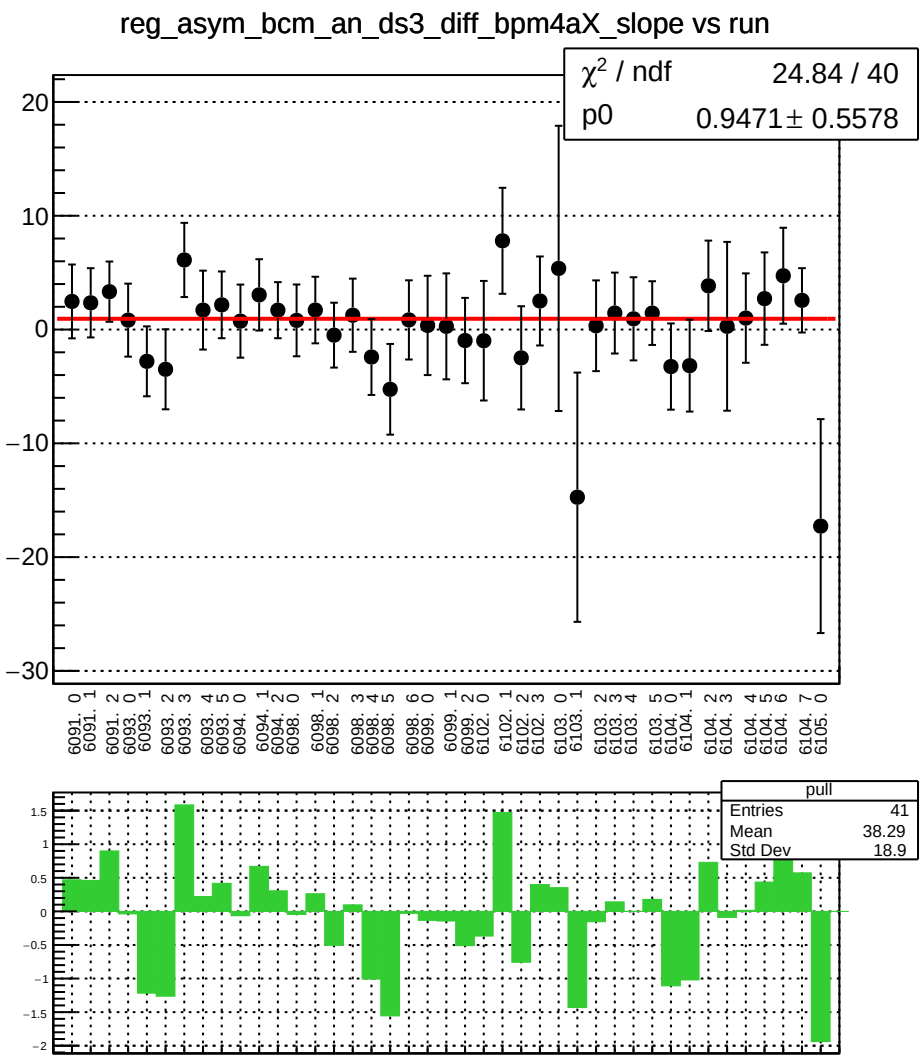

pull1D
Entries 41
Mean −0.04925
Std Dev 0.8492

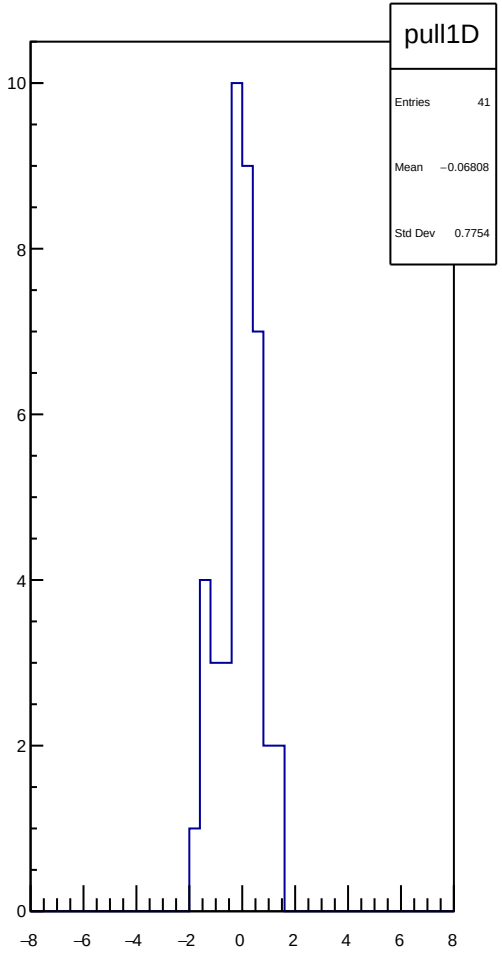

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.99 / 40
p0 −69.72 ± 3.367
50
0
−50
−100
−150
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean −39.86
Std Dev 45.33
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02919
Std Dev 0.9622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

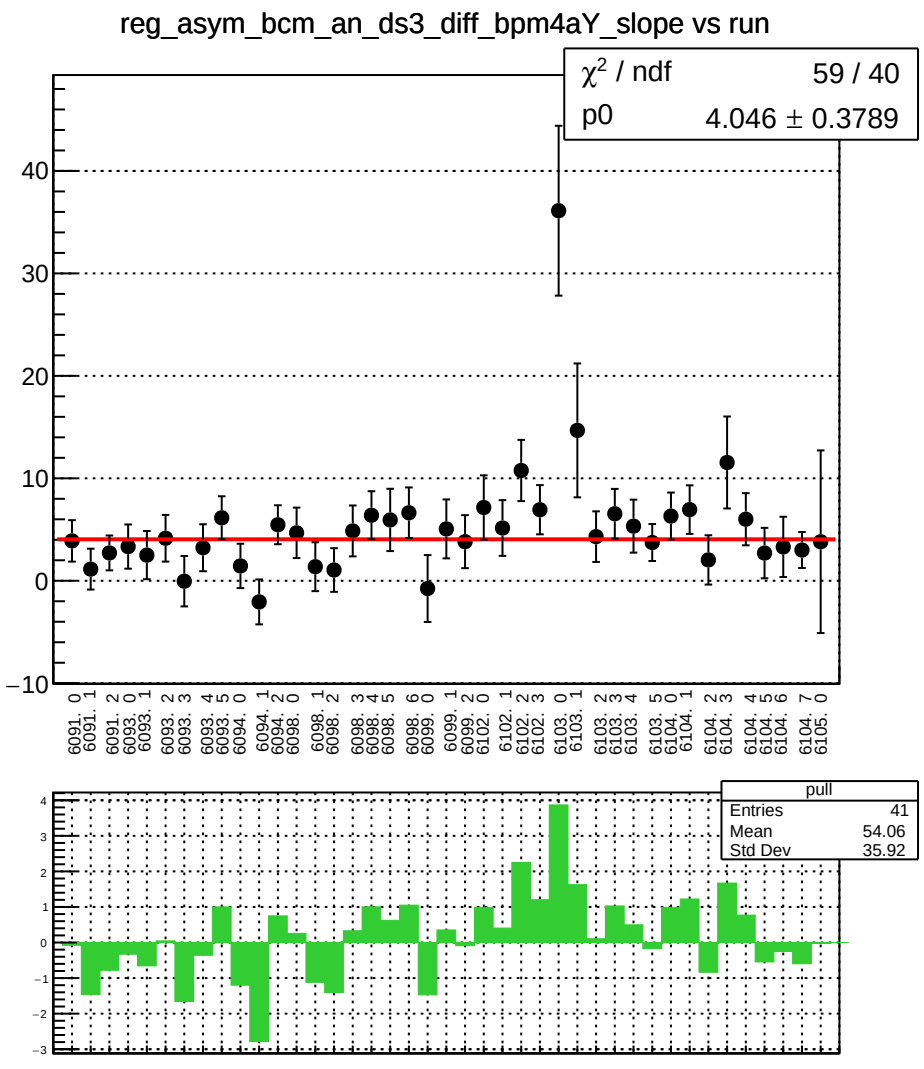

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.71 / 40
p0 −26.03 ± 2.037
pull
Entries 41
Mean 69.32
Std Dev 51.21
pull1D
Entries 41
Mean 0.04715
Std Dev 0.9055

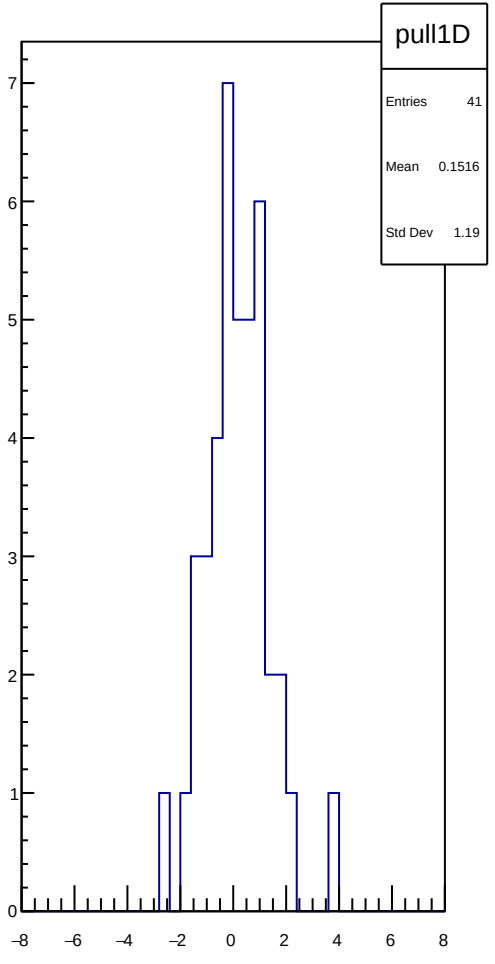

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 48.43 / 40
p0 17.17 ± 0.1424
pull
Entries 41
Mean 231.7
Std Dev 189.4

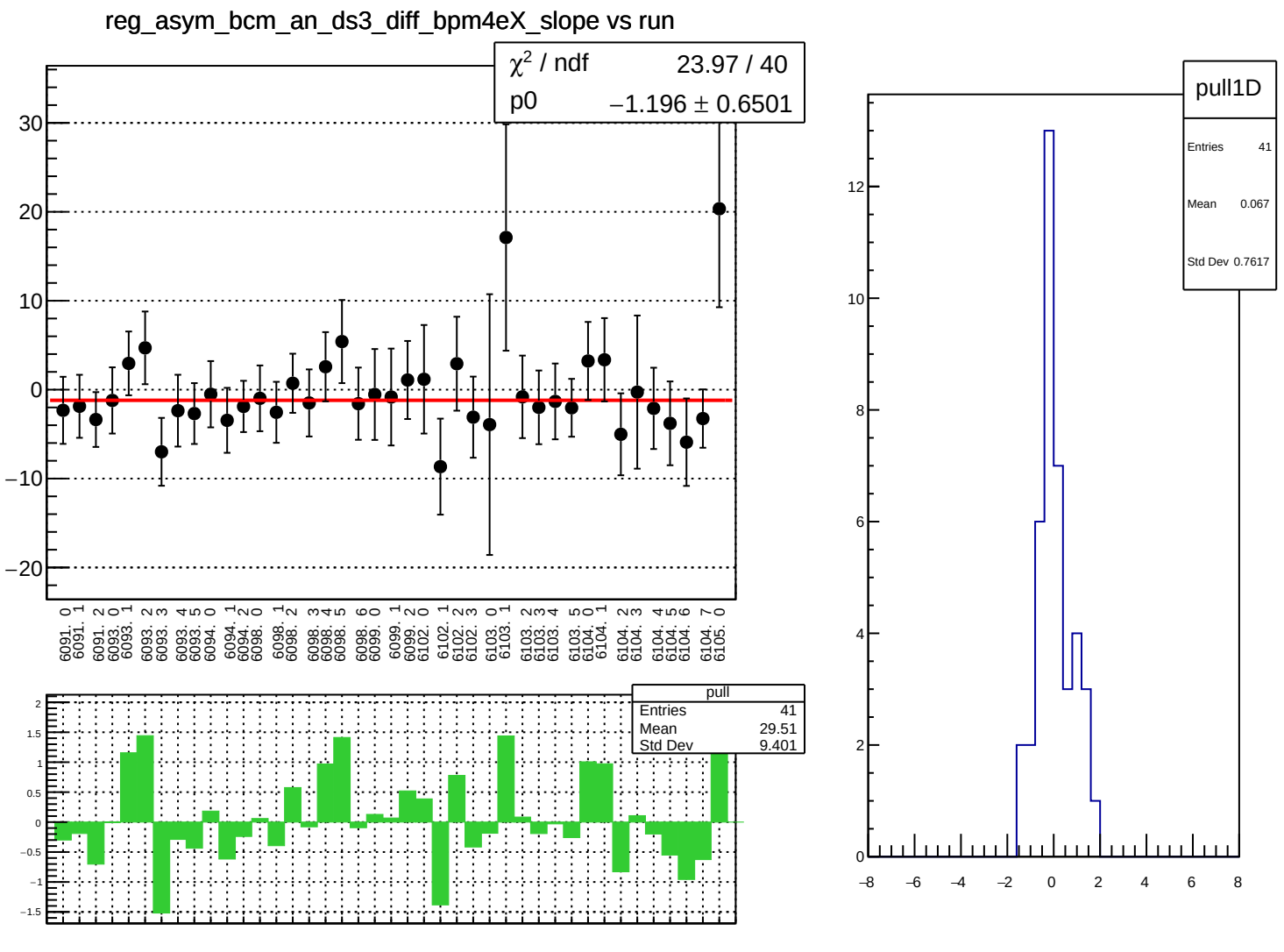

pull1D
Entries 41
Mean −0.005212
Std Dev 1.087

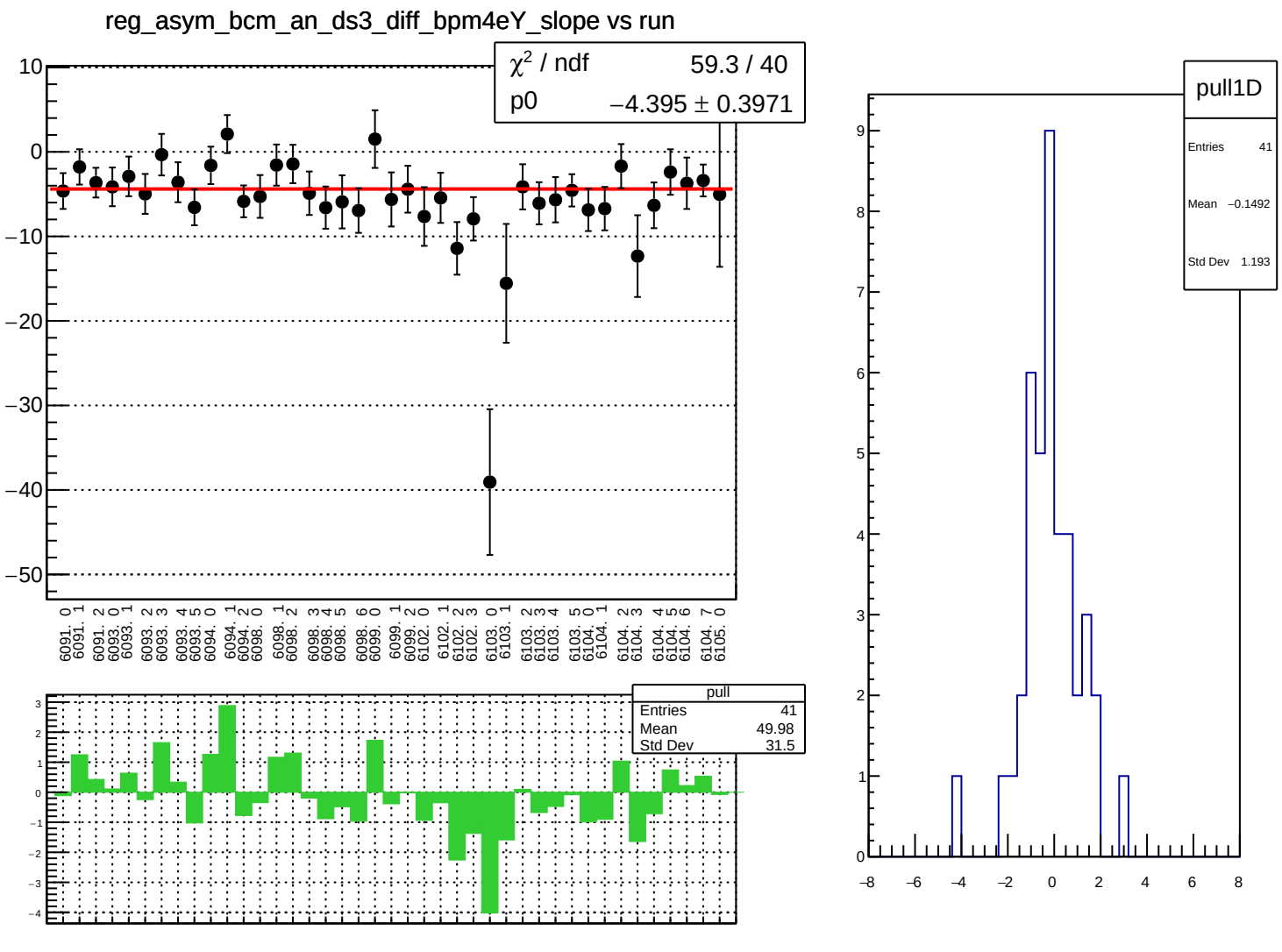

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 24.84 / 40
p0 0.9471± 0.5578
pull
Entries 41
Mean 38.29
Std Dev 18.9

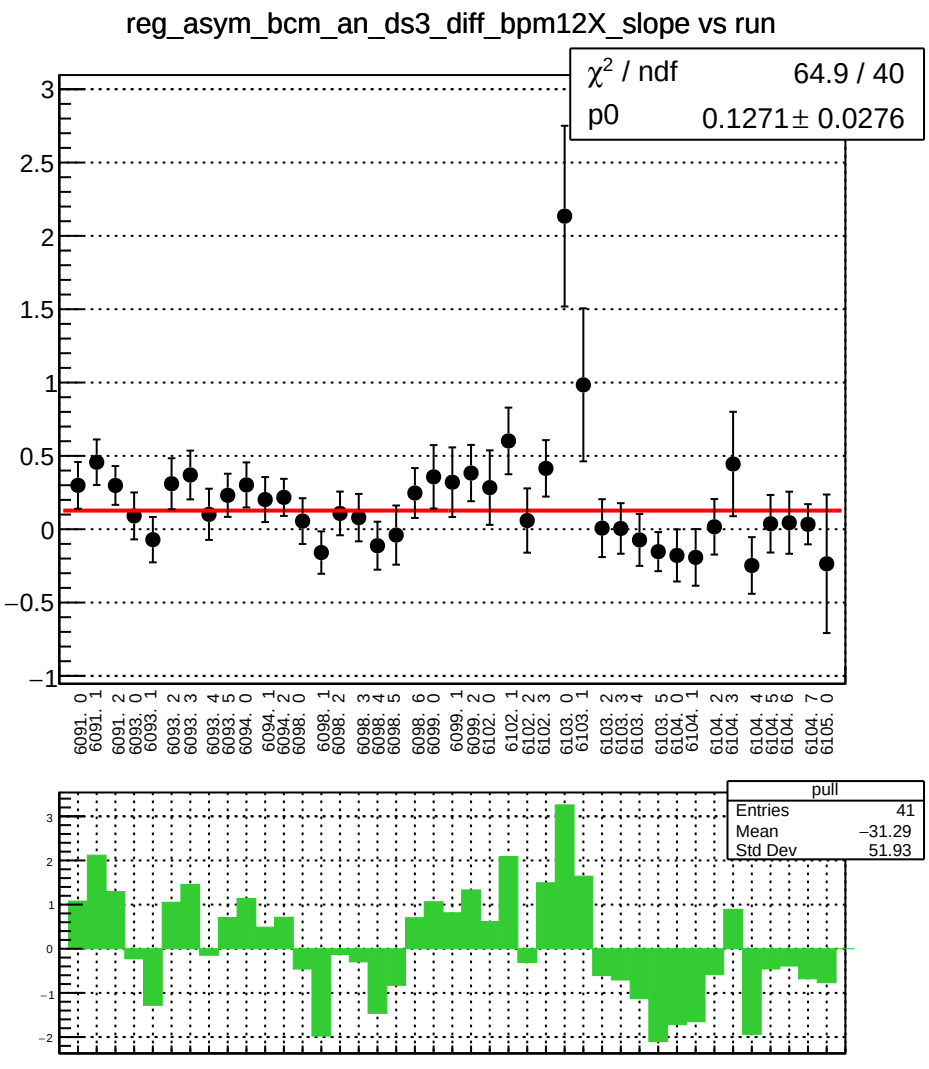

pull1D
Entries 41
Mean −0.06808
Std Dev 0.7754

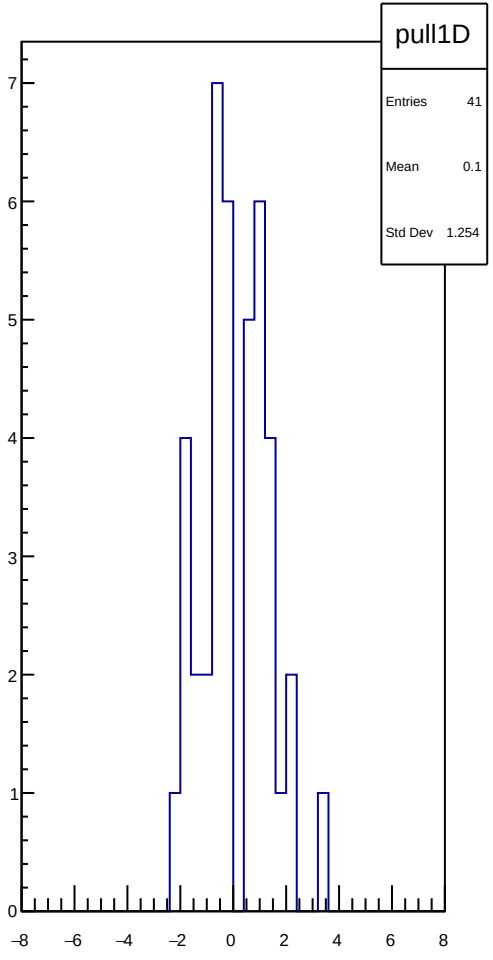

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 59 / 40
p0 4.046 ± 0.3789
pull
Entries 41
Mean 54.06
Std Dev 35.92

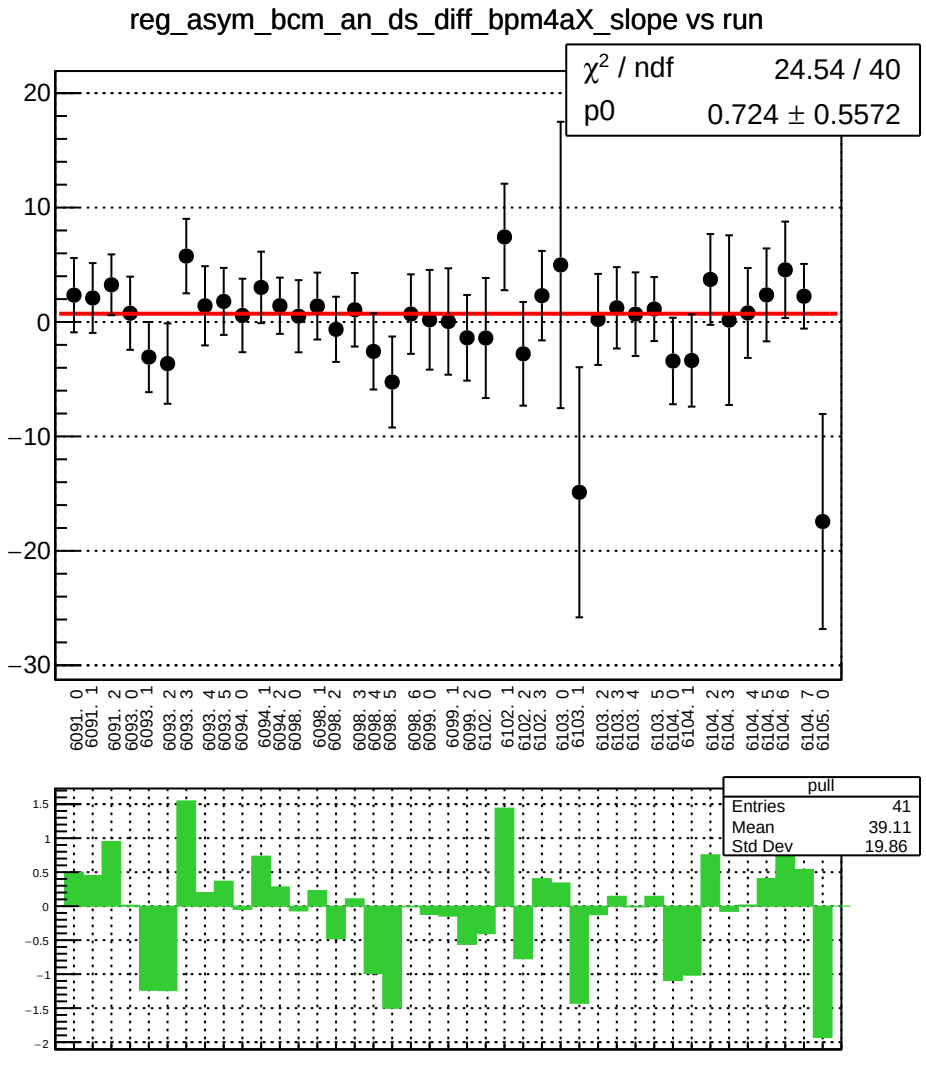

pull1D
Entries 41
Mean 0.1516
Std Dev 1.19

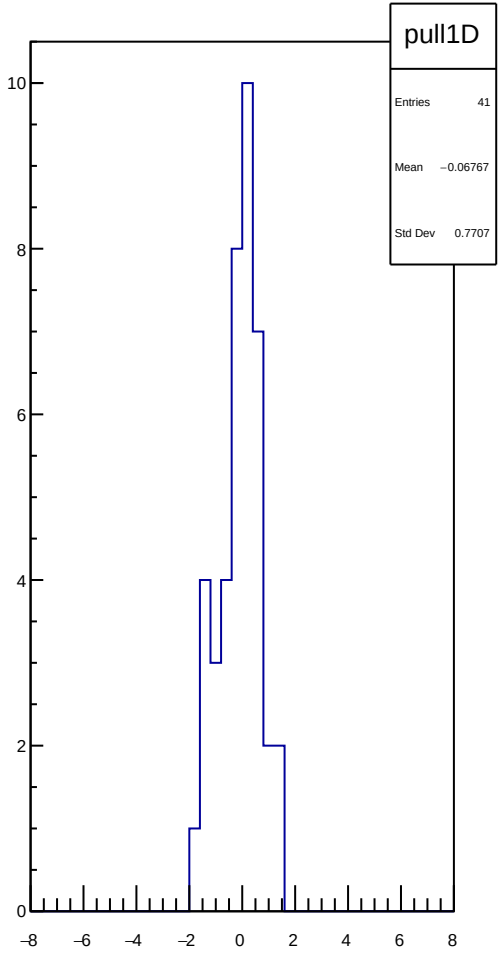

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 23.97 / 40
p0 −1.196 ± 0.6501
30
20
10
0
−10
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 29.51
Std Dev 9.401
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.067
Std Dev 0.7617
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

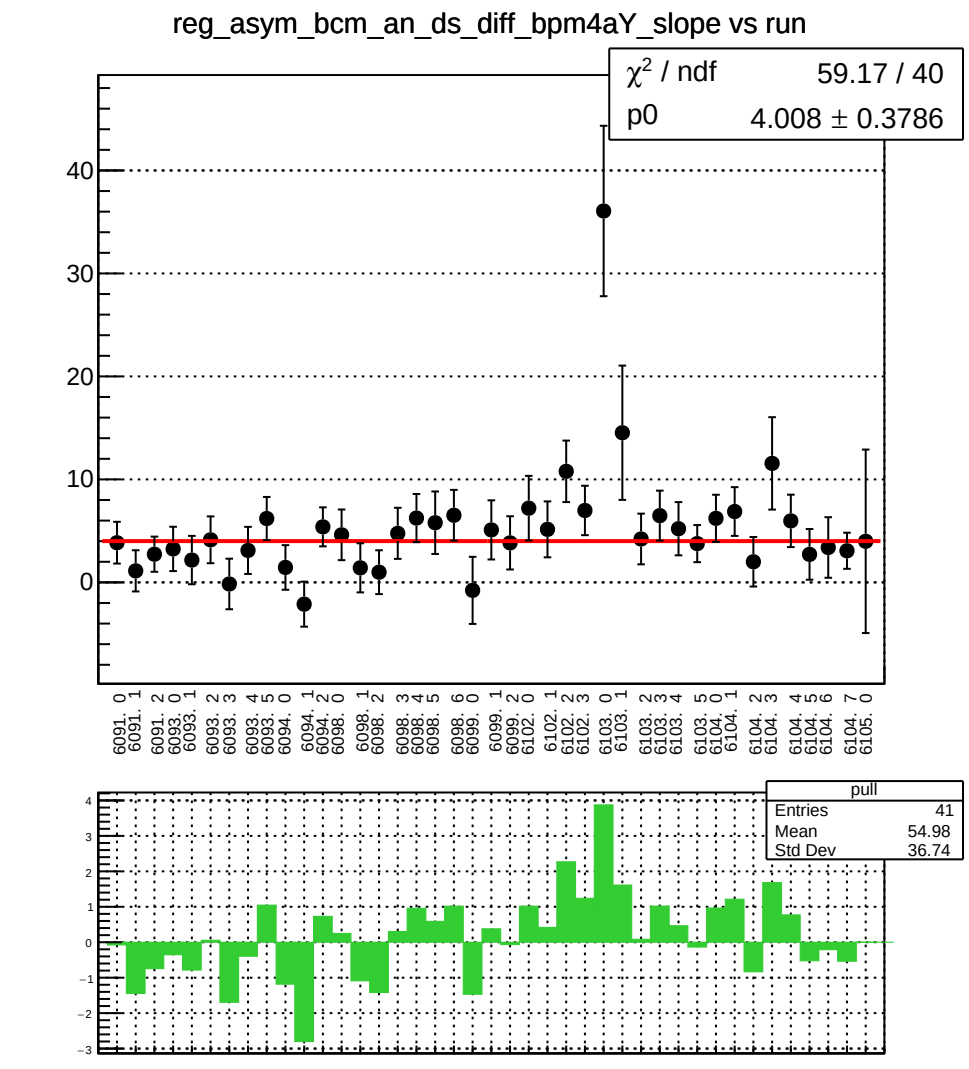

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 59.3 / 40
p0 −4.395 ± 0.3971
pull
Entries 41
Mean 49.98
Std Dev 31.5
pull1D
Entries 41
Mean −0.1492
Std Dev 1.193

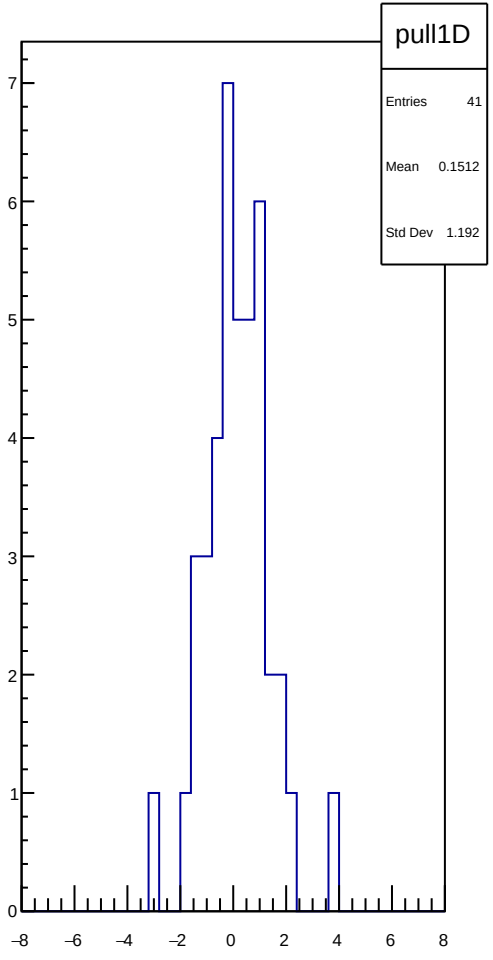

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 64.9 / 40
p0 0.1271± 0.0276
pull
Entries 41
Mean −31.29
Std Dev 51.93

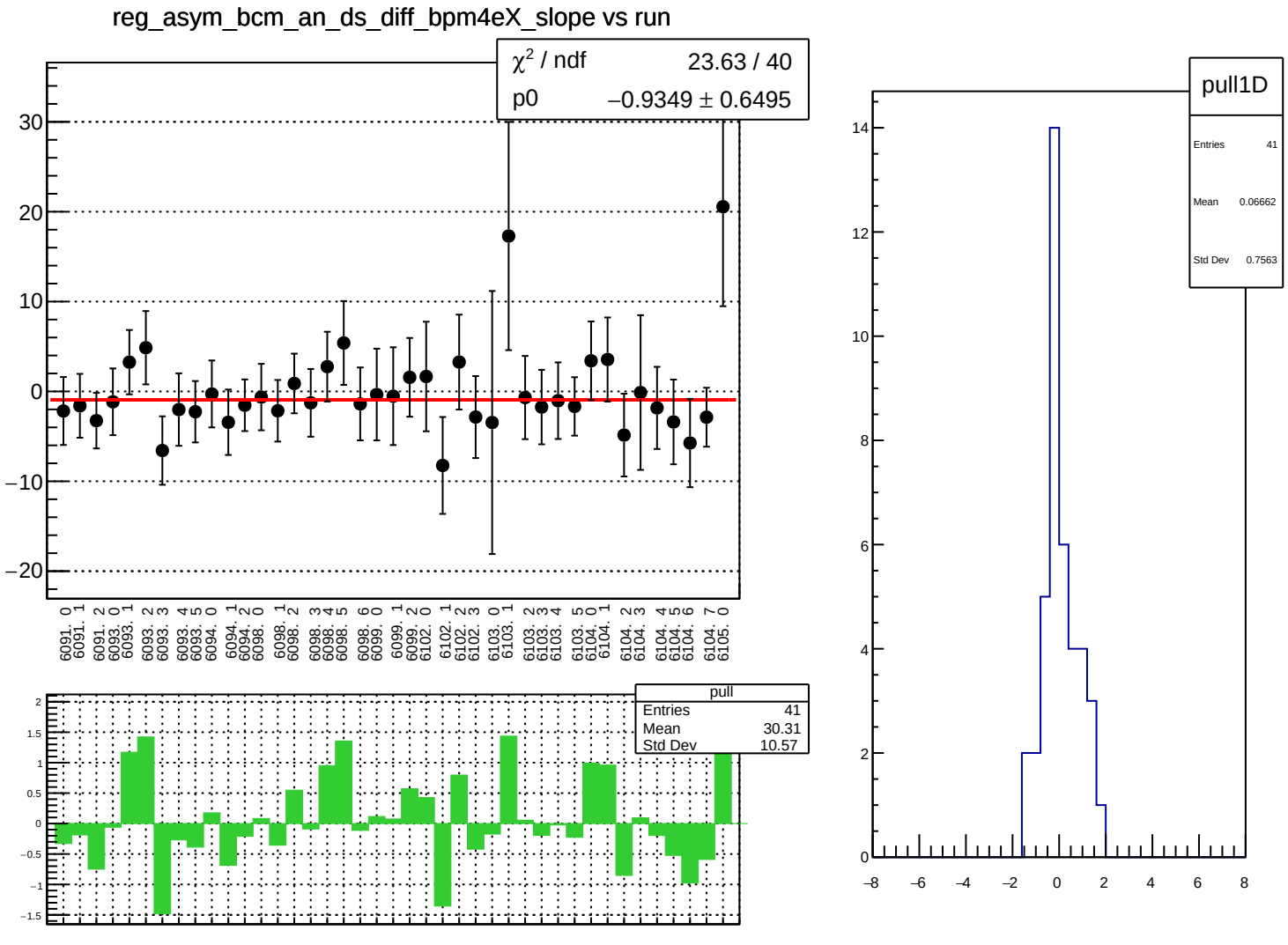

pull1D
Entries 41
Mean 0.1
Std Dev 1.254

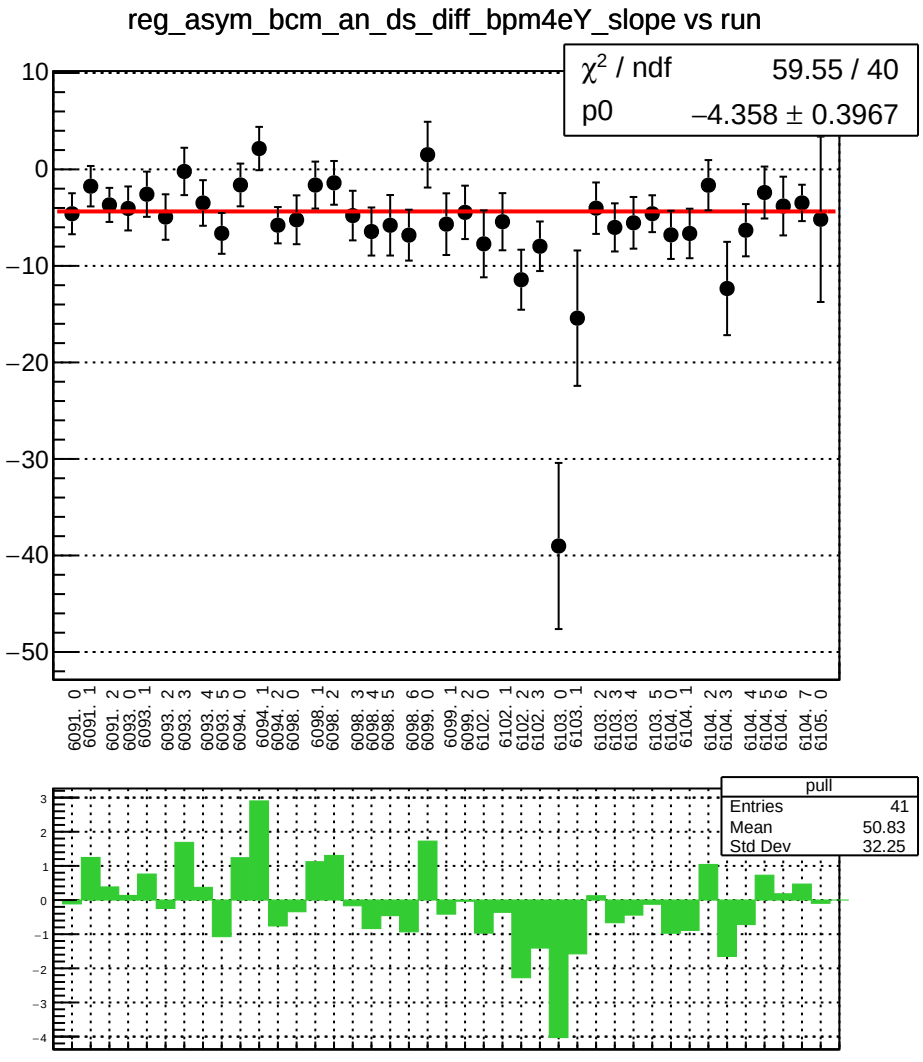

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 24.54 / 40
p0 0.724 ± 0.5572
pull
Entries 41
Mean 39.11
Std Dev 19.86

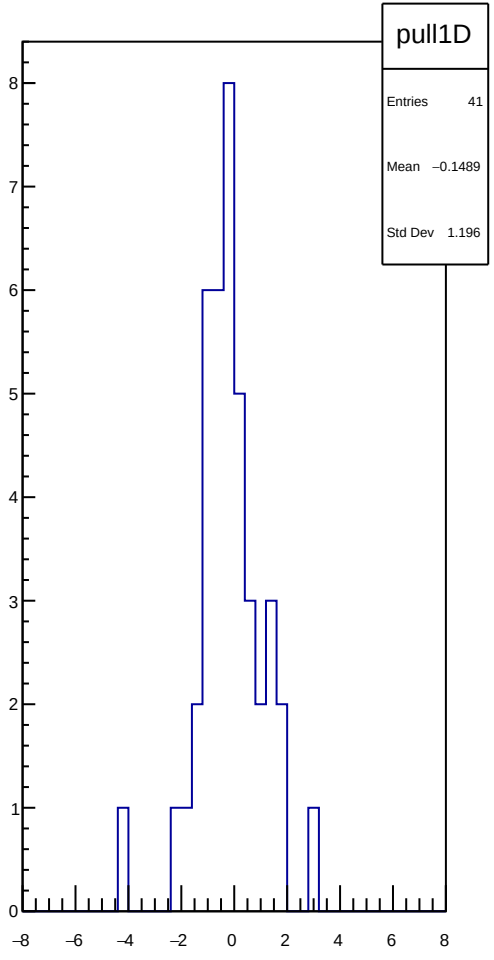

pull1D
Entries 41
Mean −0.06767
Std Dev 0.7707

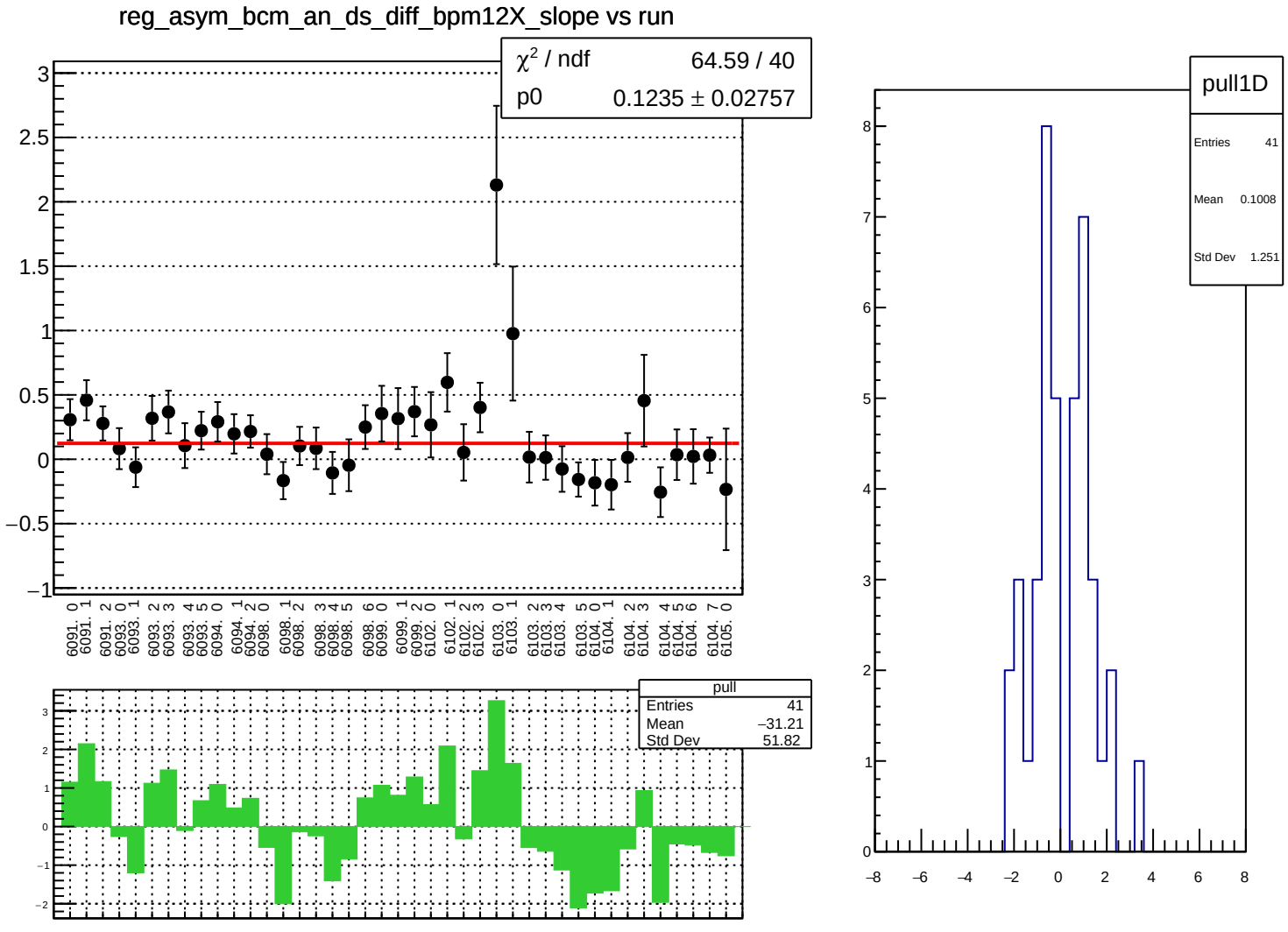

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 59.17 / 40
p0 4.008 ± 0.3786
pull
Entries 41
Mean 54.98
Std Dev 36.74

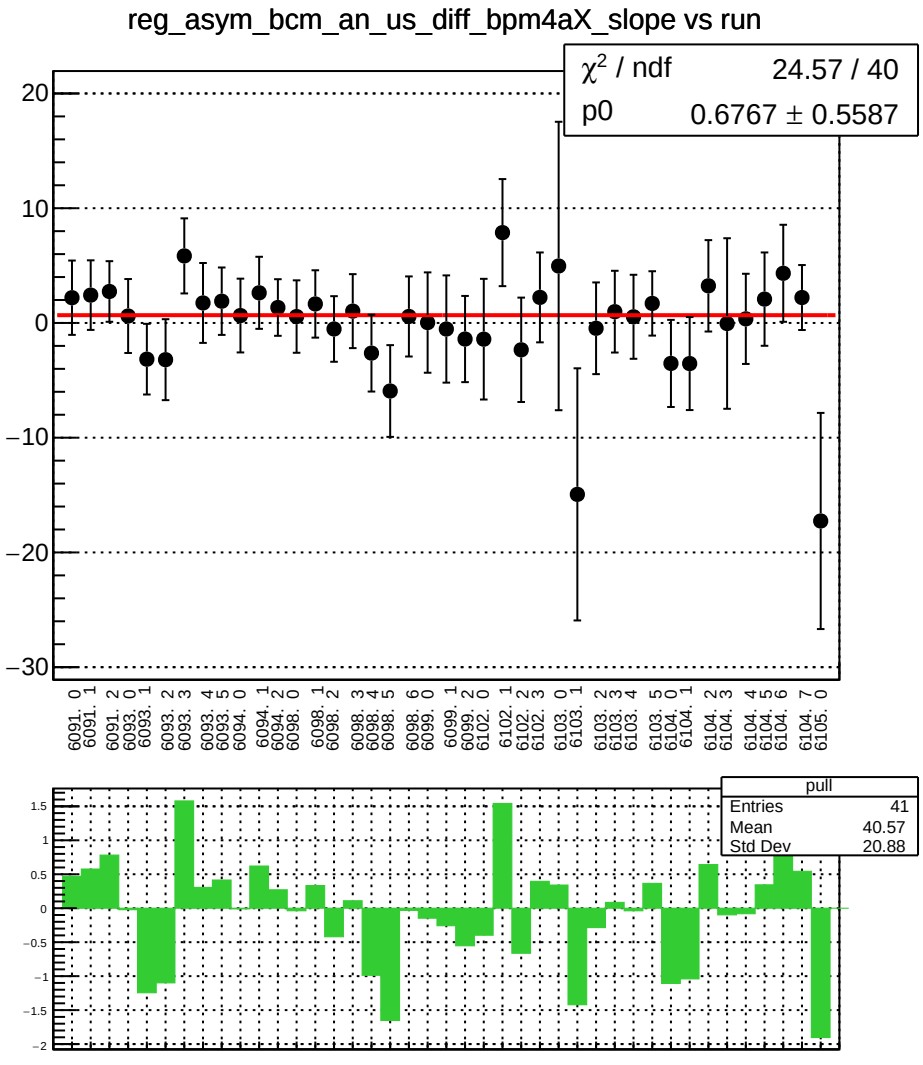

pull1D
Entries 41
Mean 0.1512
Std Dev 1.192

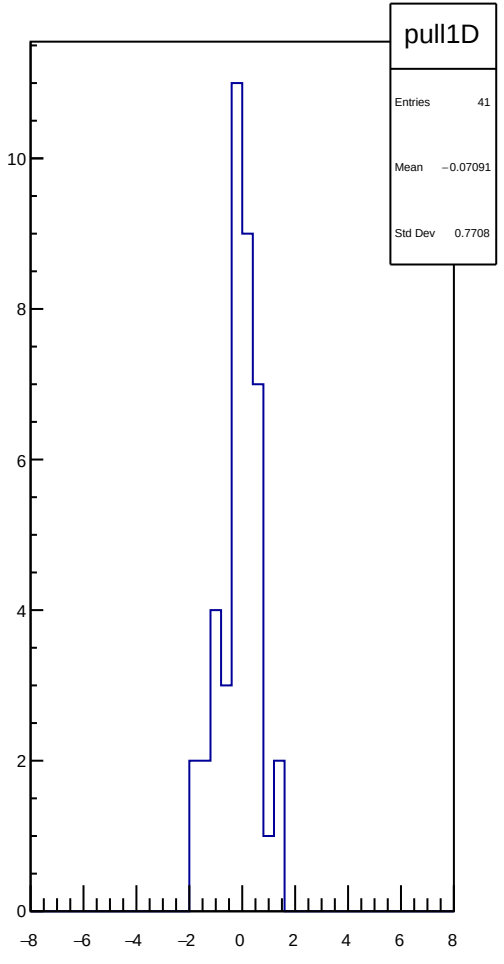

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 23.63 / 40
p0 −0.9349 ± 0.6495
30
20
10
0
−10
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 30.31
Std Dev 10.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.06662
Std Dev 0.7563
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

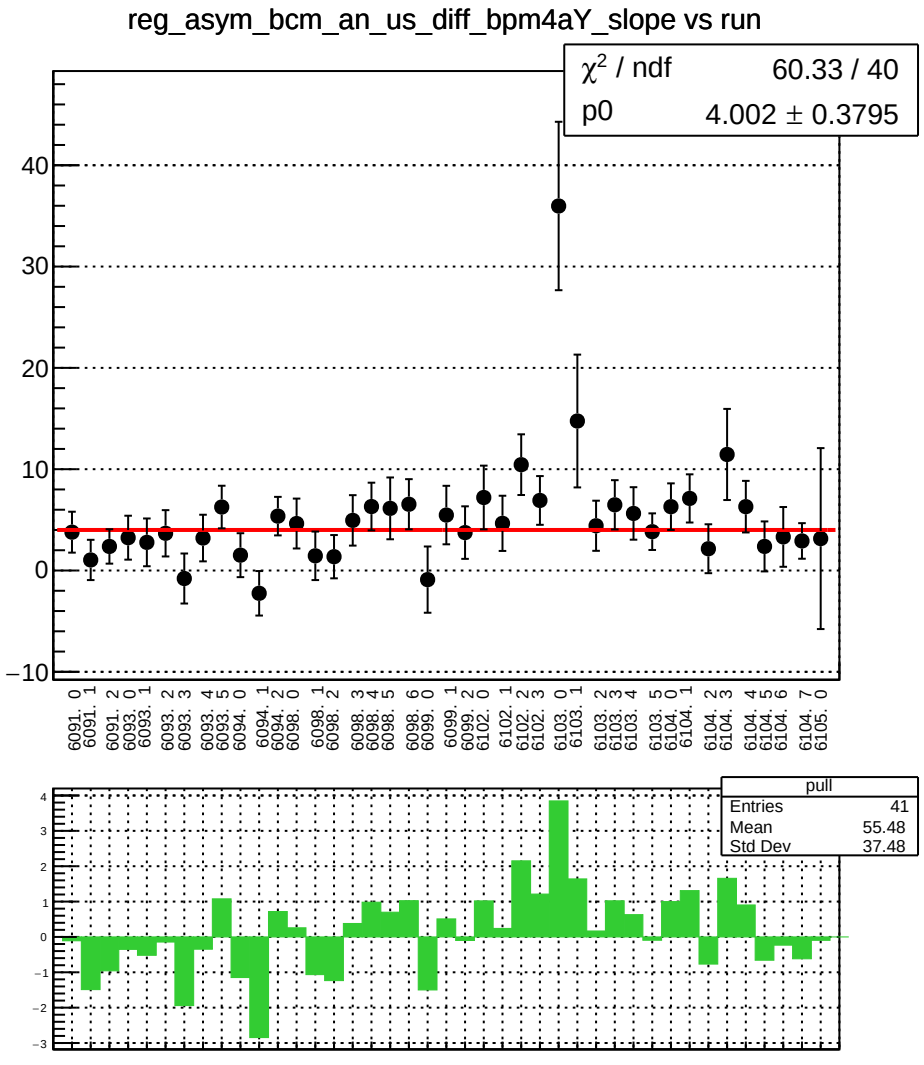

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 59.55 / 40
p0 −4.358 ± 0.3967
pull
Entries 41
Mean 50.83
Std Dev 32.25

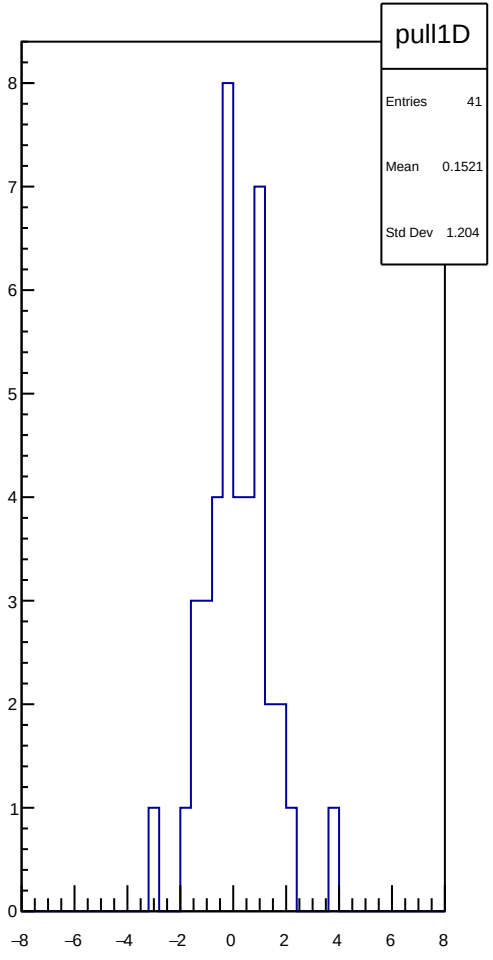

pull1D
Entries 41
Mean −0.1489
Std Dev 1.196

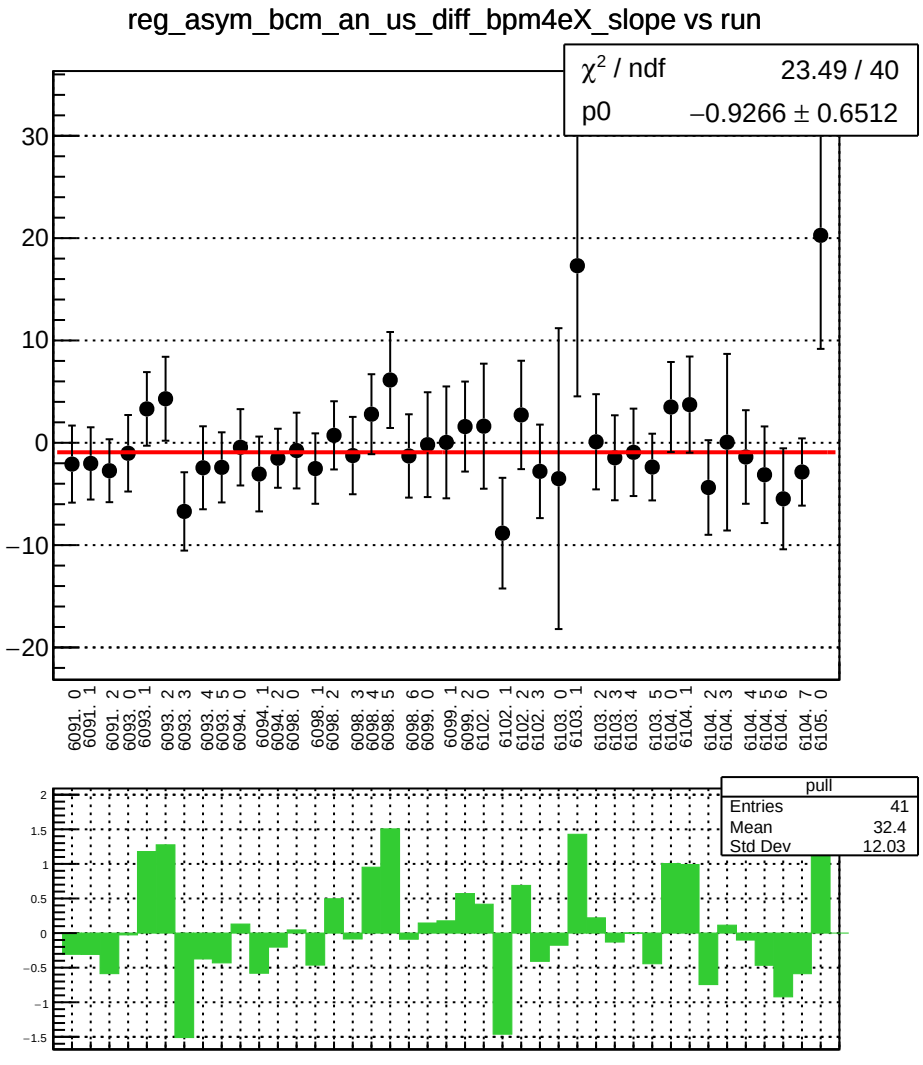

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 64.59 / 40
p0 0.1235 ± 0.02757
pull
Entries 41
Mean −31.21
Std Dev 51.82
pull1D
Entries 41
Mean 0.1008
Std Dev 1.251

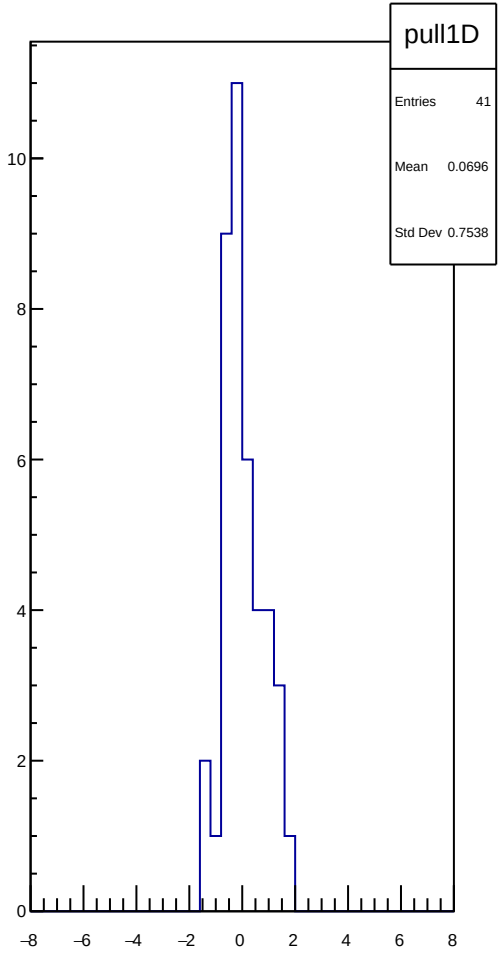

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 24.57 / 40
p0 0.6767 ± 0.5587
pull
Entries 41
Mean 40.57
Std Dev 20.88

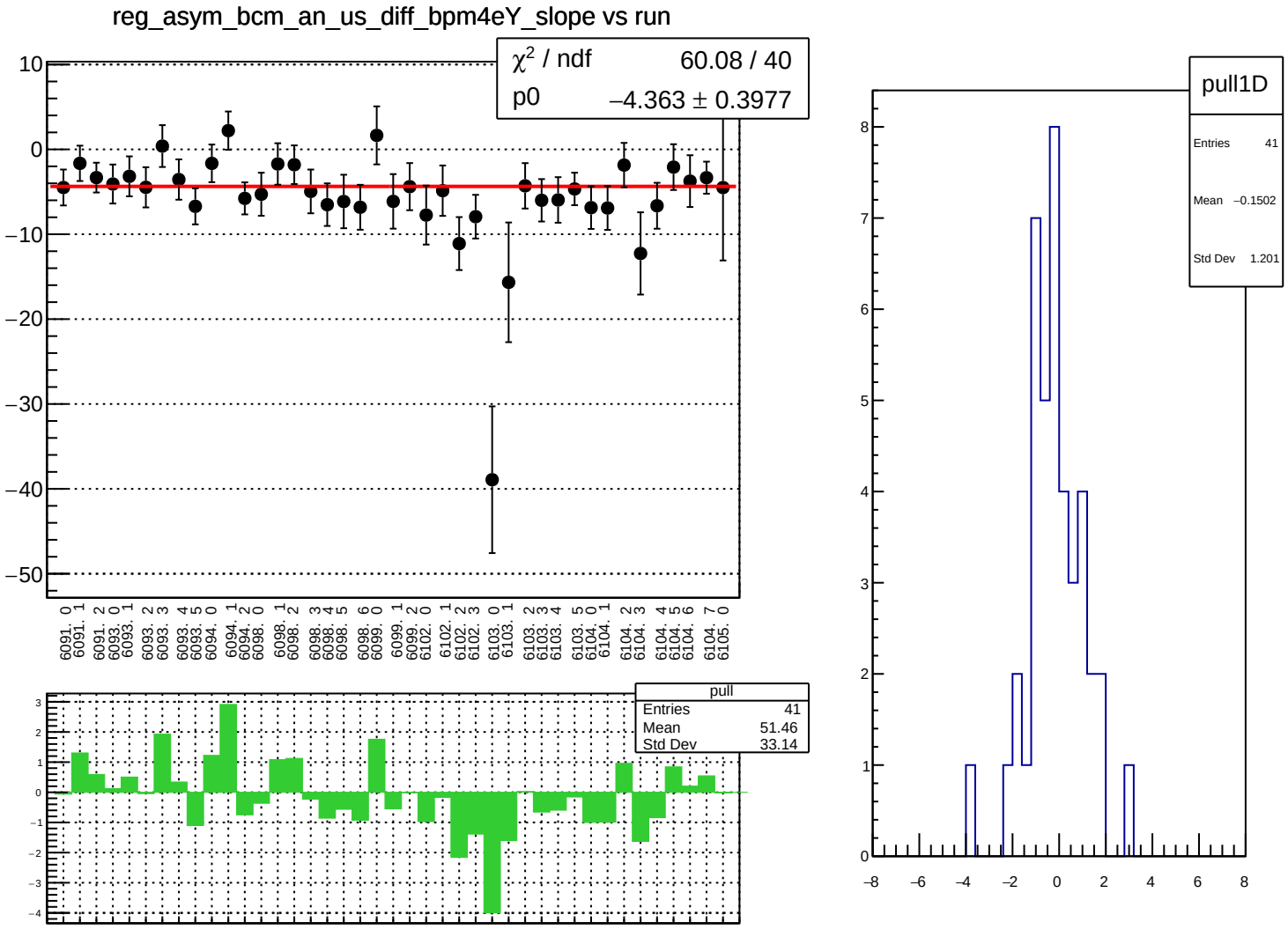

pull1D
Entries 41
Mean −0.07091
Std Dev 0.7708

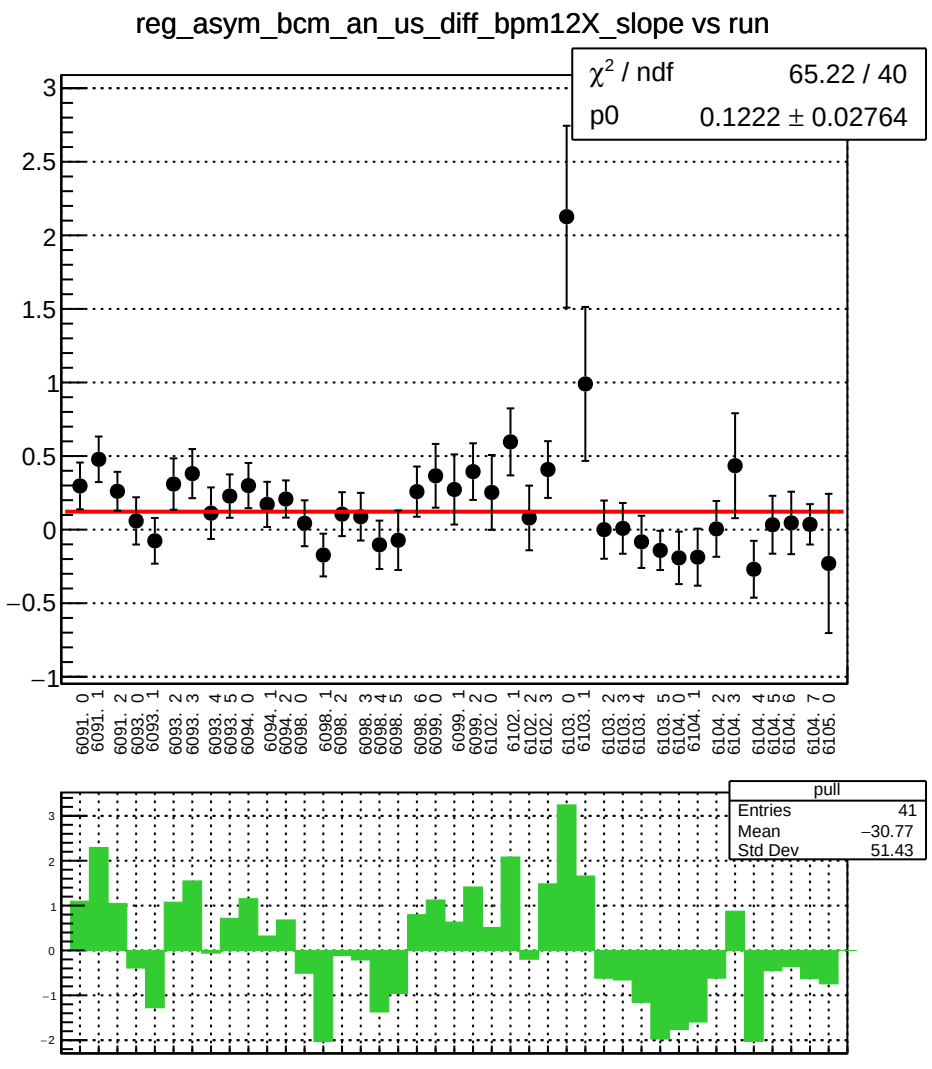

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 60.33 / 40
p0 4.002 ± 0.3795
pull
Entries 41
Mean 55.48
Std Dev 37.48

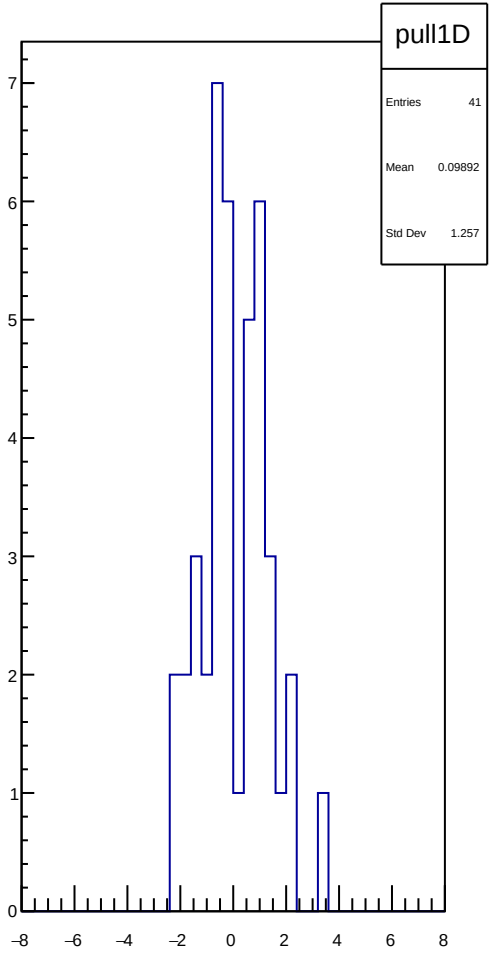

pull1D
Entries 41
Mean 0.1521
Std Dev 1.204

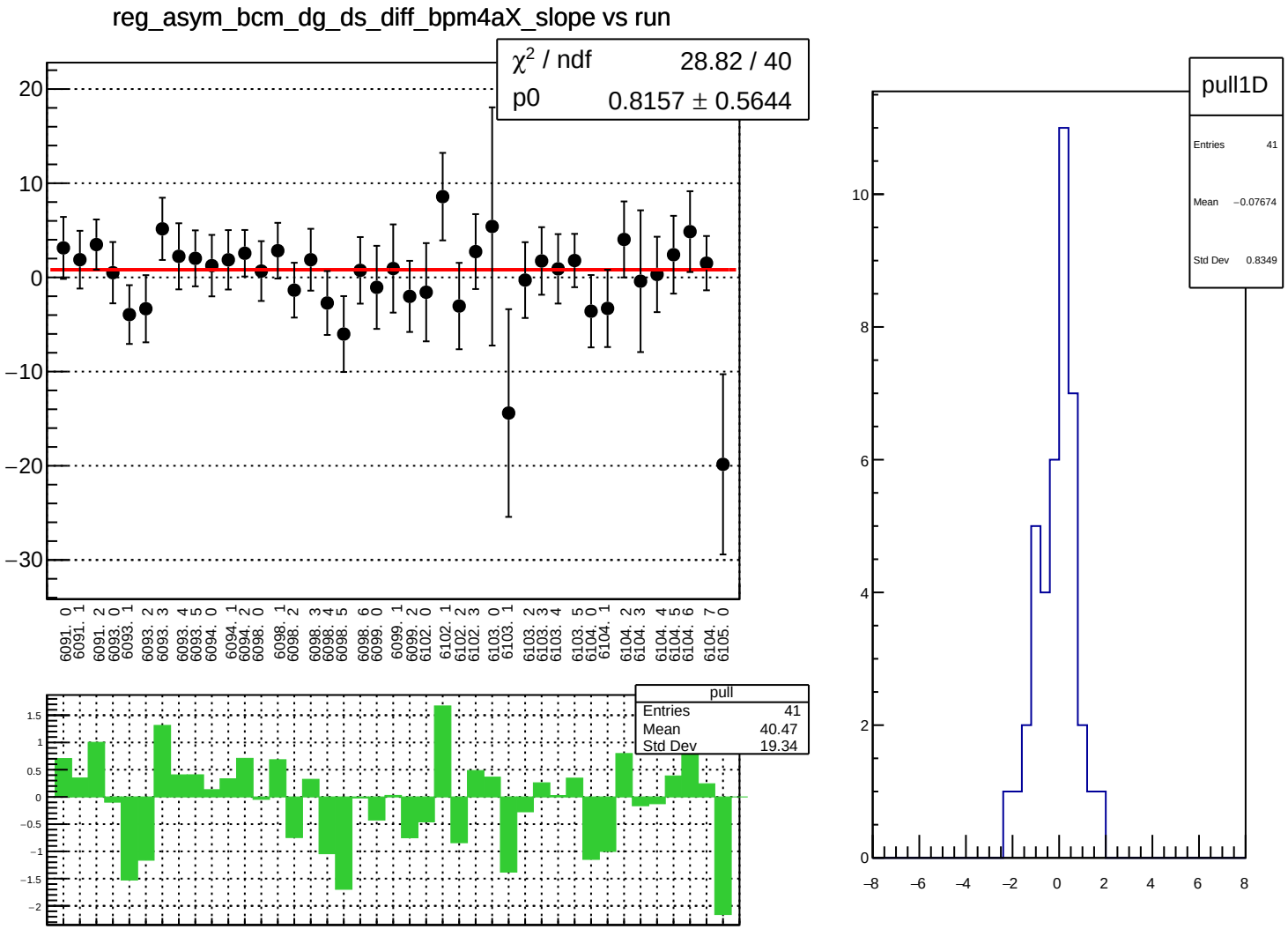

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 23.49 / 40
p0 −0.9266 ± 0.6512
pull
Entries 41
Mean 32.4
Std Dev 12.03

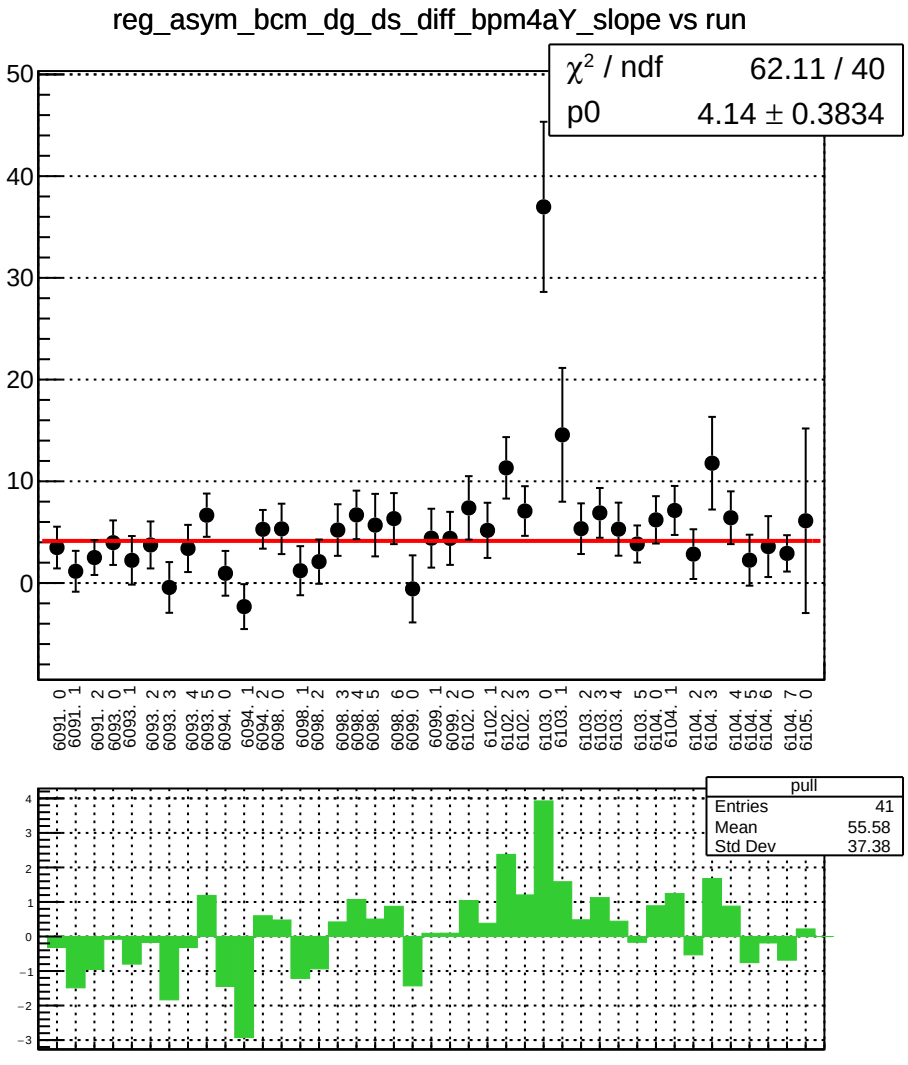

pull1D
Entries 41
Mean 0.0696
Std Dev 0.7538

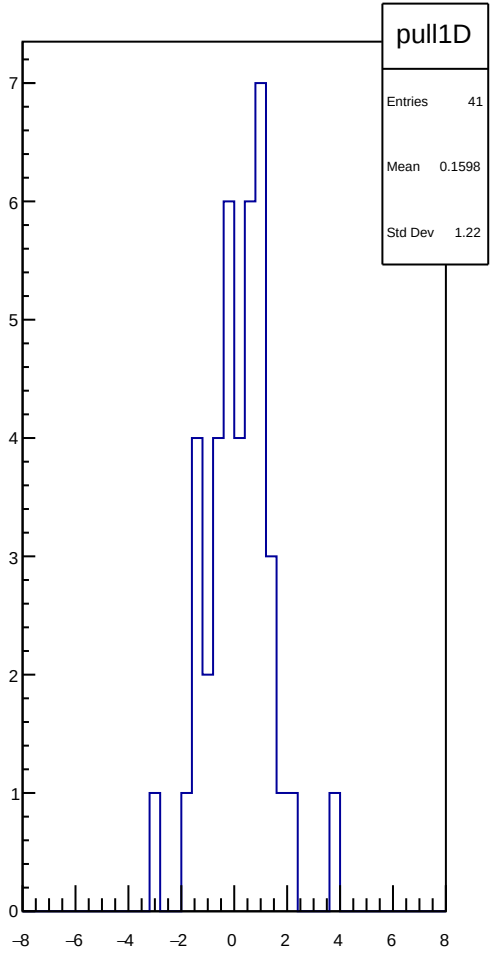

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 60.08 / 40
p0 −4.363 ± 0.3977
pull
Entries 41
Mean 51.46
Std Dev 33.14
pull1D
Entries 41
Mean −0.1502
Std Dev 1.201

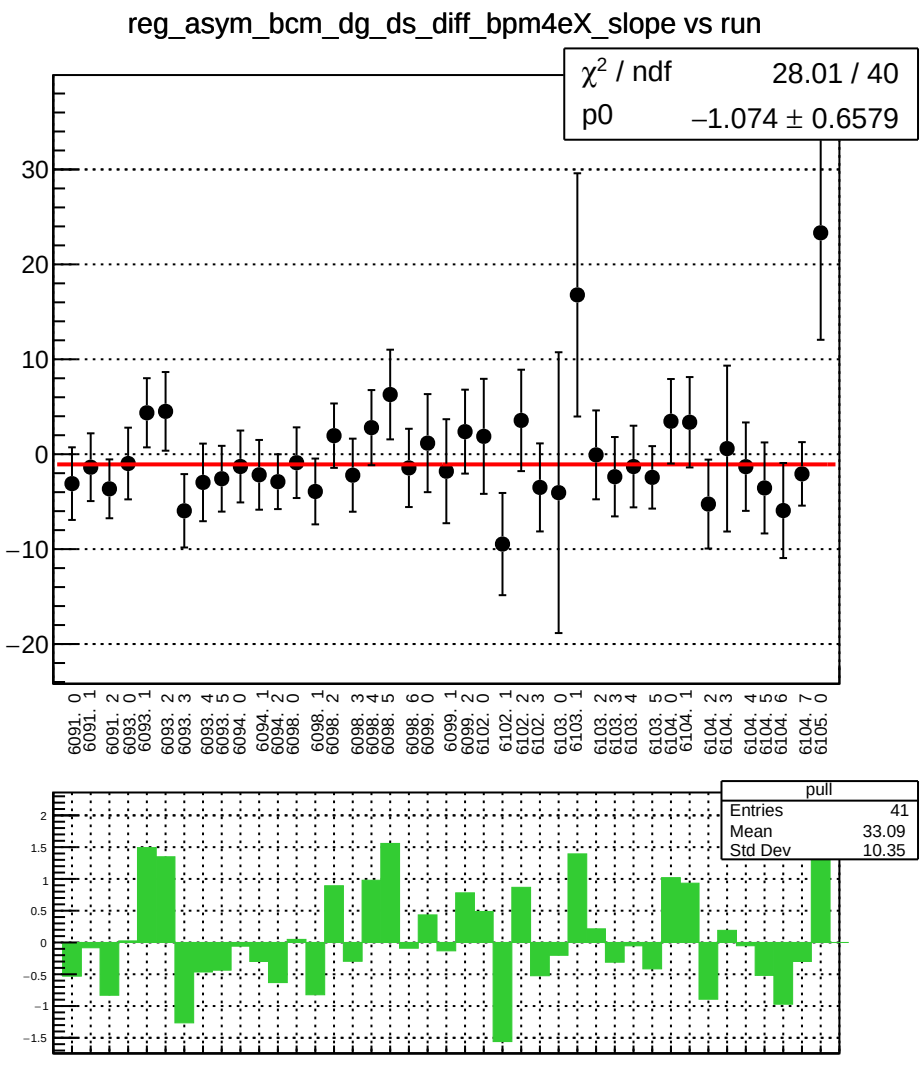

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 65.22 / 40
p0 0.1222 ± 0.02764
pull
Entries 41
Mean −30.77
Std Dev 51.43

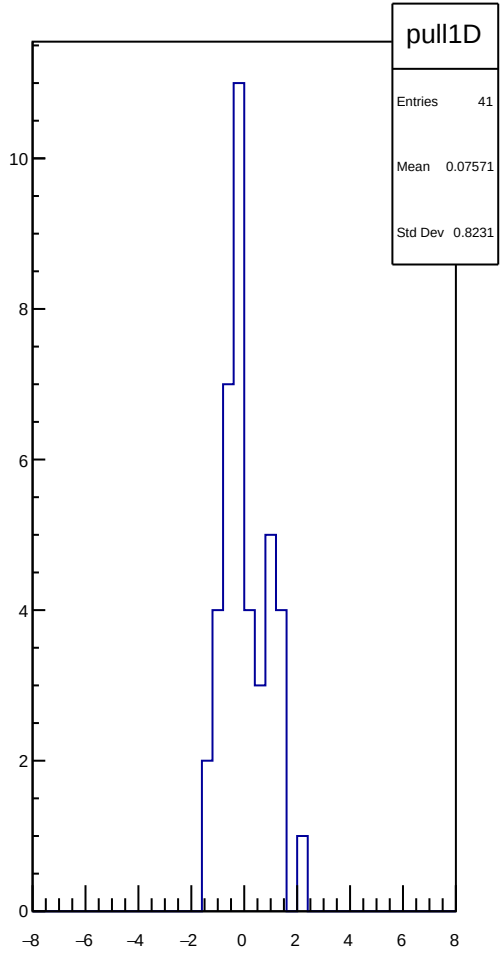

pull1D
Entries 41
Mean 0.09892
Std Dev 1.257

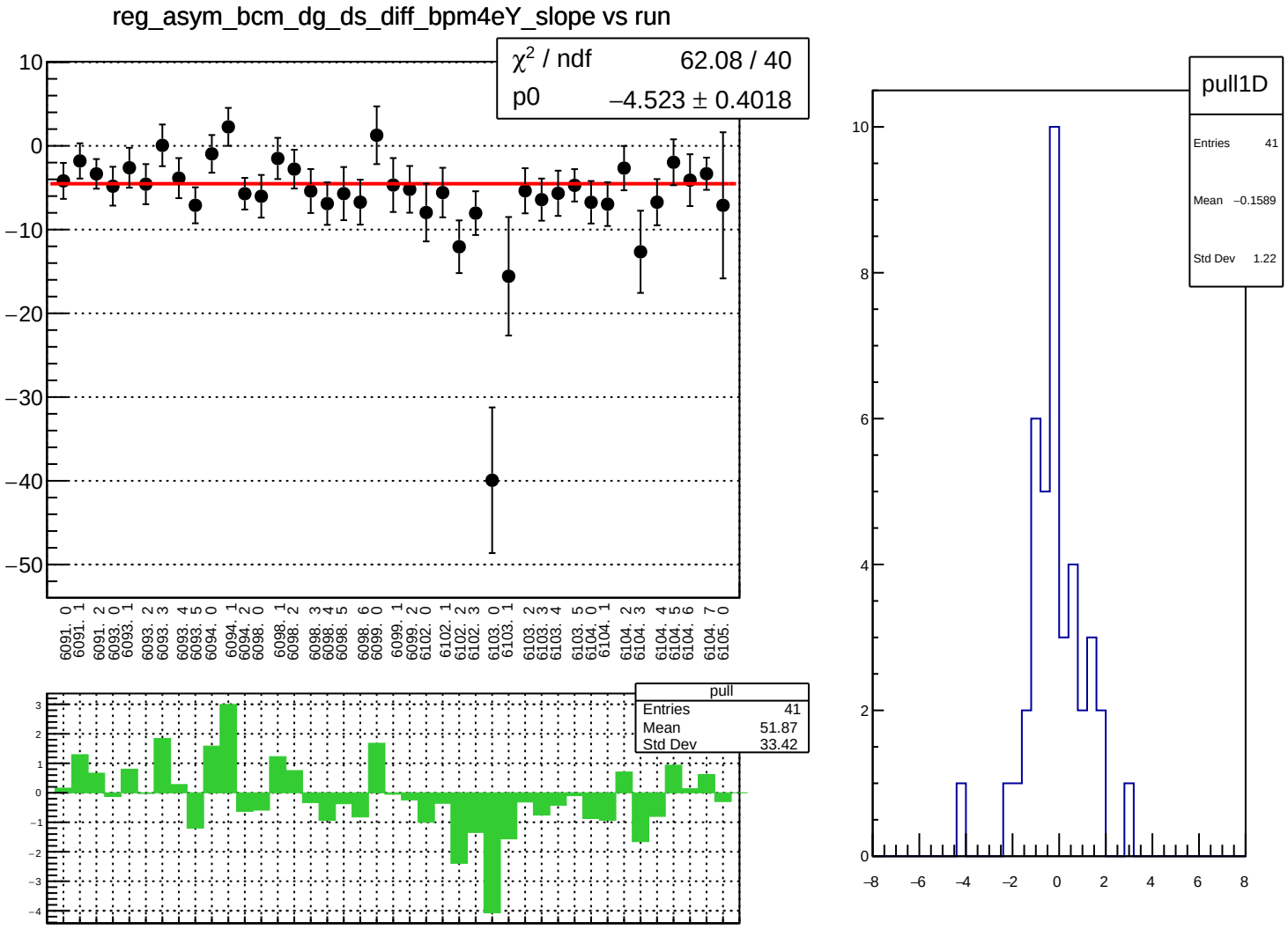

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 28.82 / 40
p0 0.8157 ± 0.5644
pull
Entries 41
Mean 40.47
Std Dev 19.34
pull1D
Entries 41
Mean −0.07674
Std Dev 0.8349

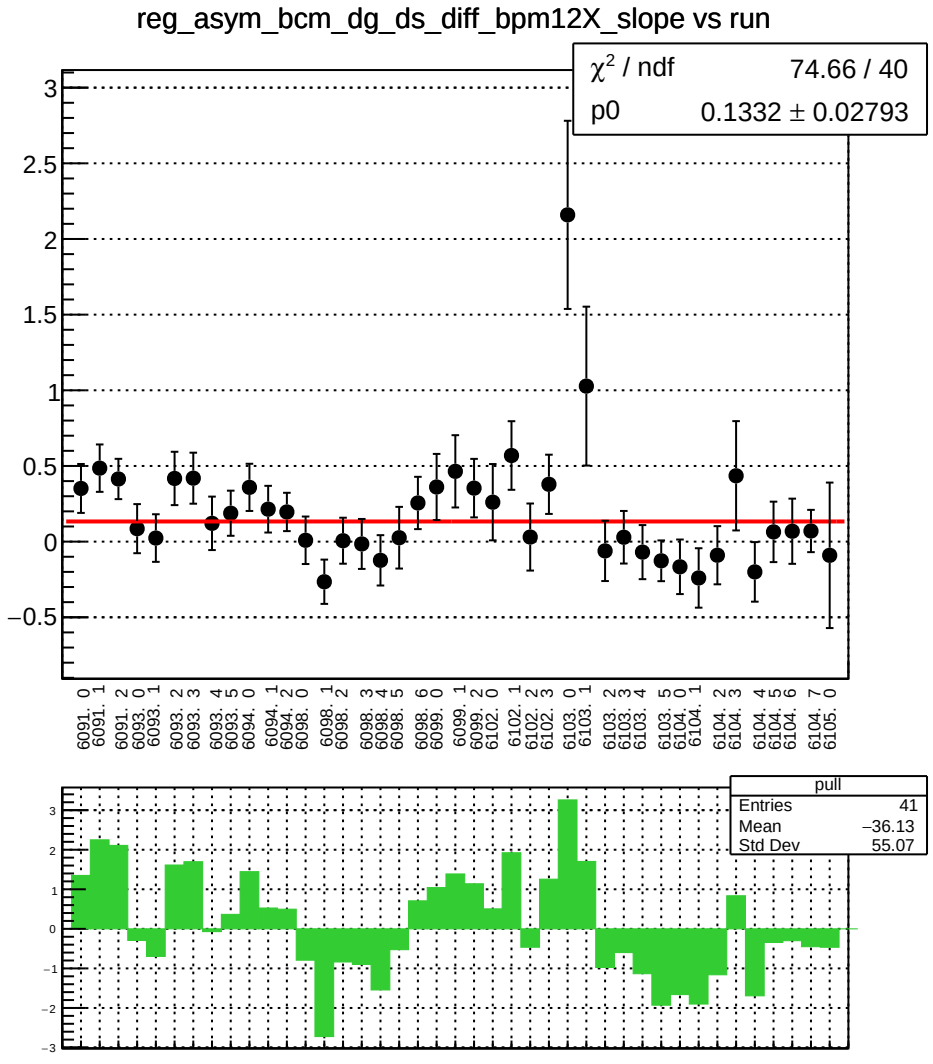

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 62.11 / 40
p0 4.14 ± 0.3834
pull
Entries 41
Mean 55.58
Std Dev 37.38

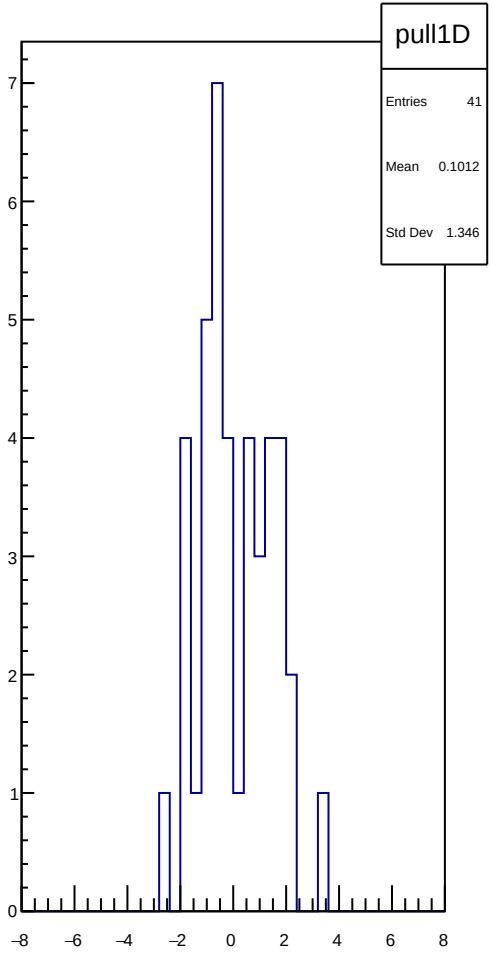

pull1D
Entries 41
Mean 0.1598
Std Dev 1.22

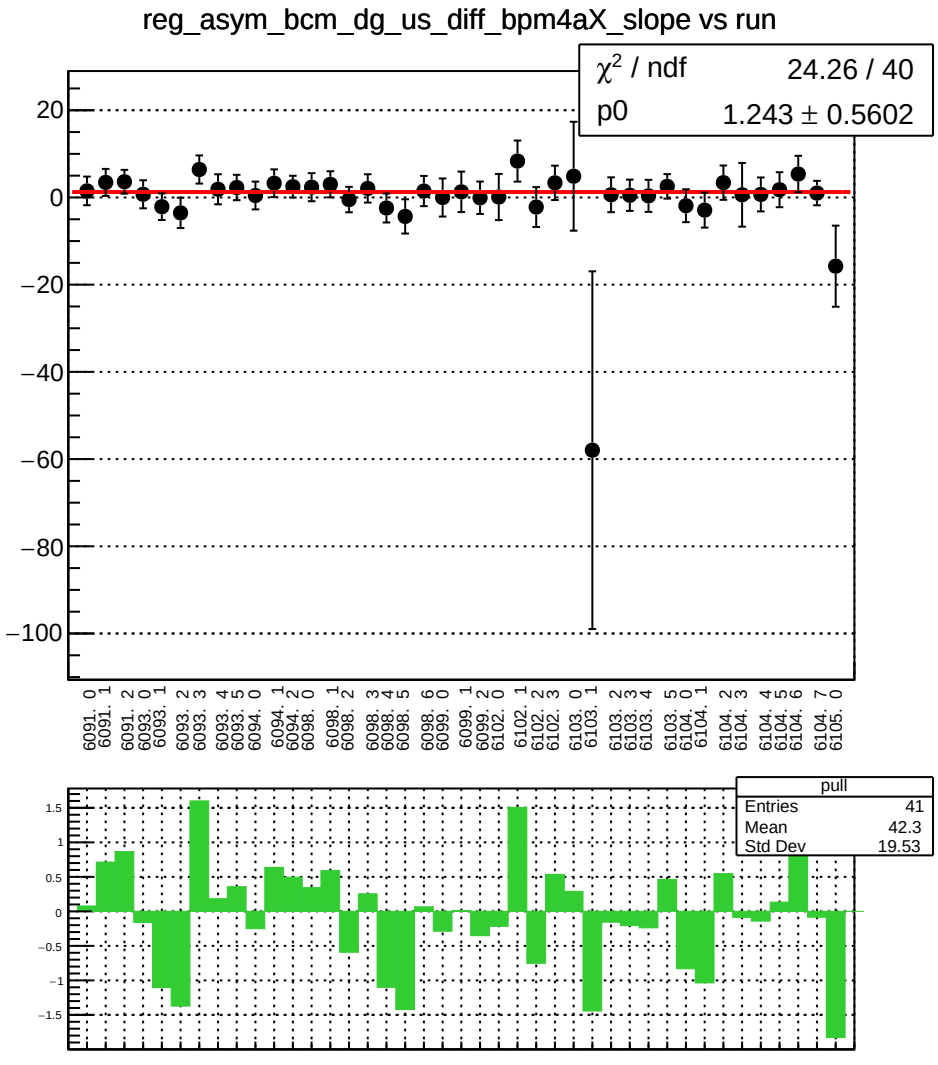

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 28.01 / 40
p0 −1.074 ± 0.6579
pull
Entries 41
Mean 33.09
Std Dev 10.35

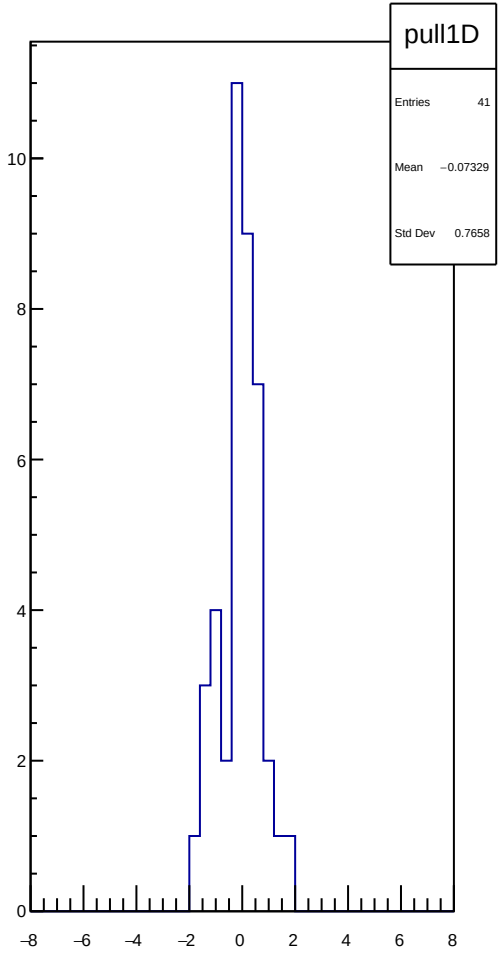

pull1D
Entries 41
Mean 0.07571
Std Dev 0.8231

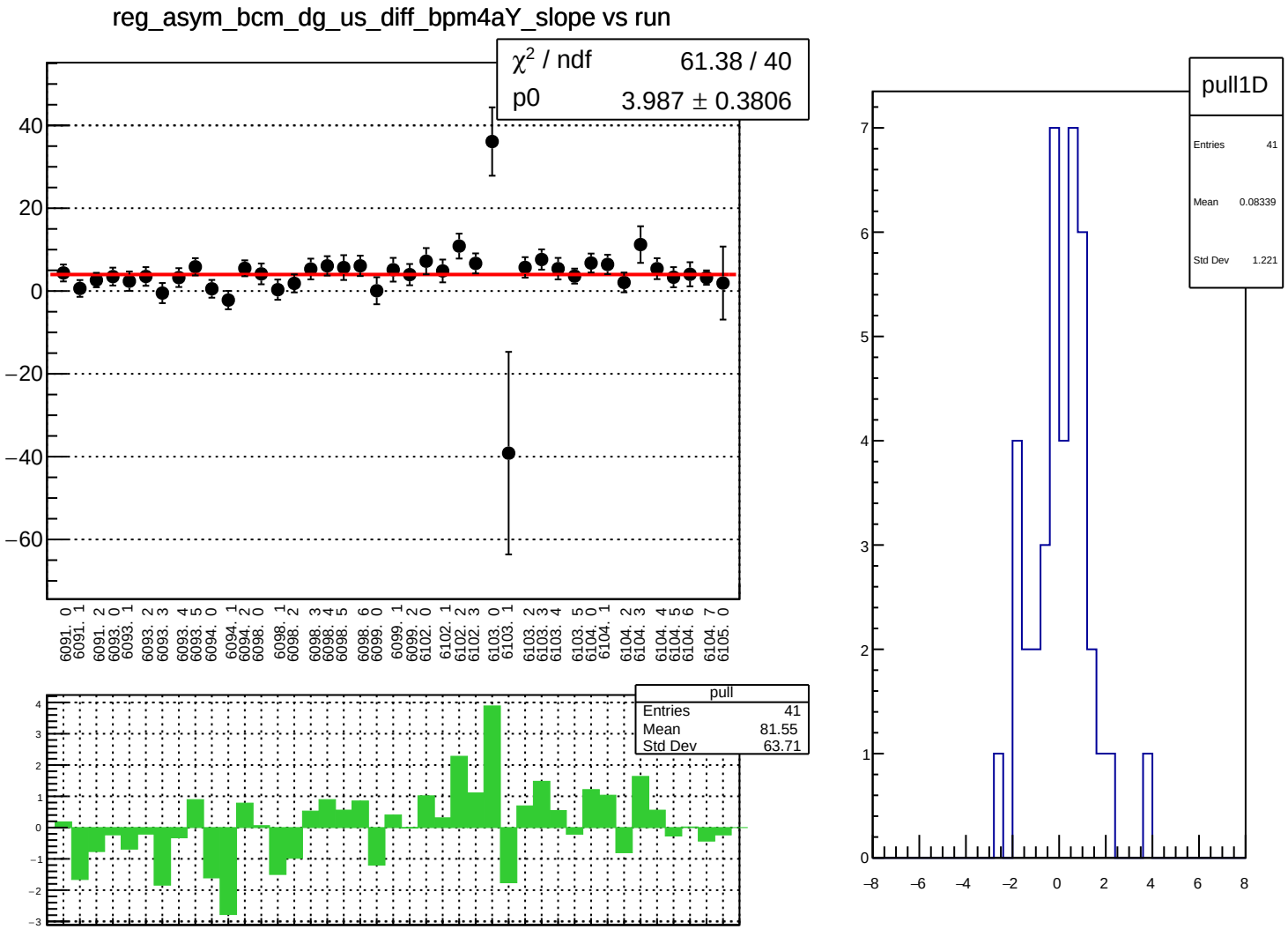

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 62.08 / 40
p0 −4.523 ± 0.4018
pull
Entries 41
Mean 51.87
Std Dev 33.42
pull1D
Entries 41
Mean −0.1589
Std Dev 1.22

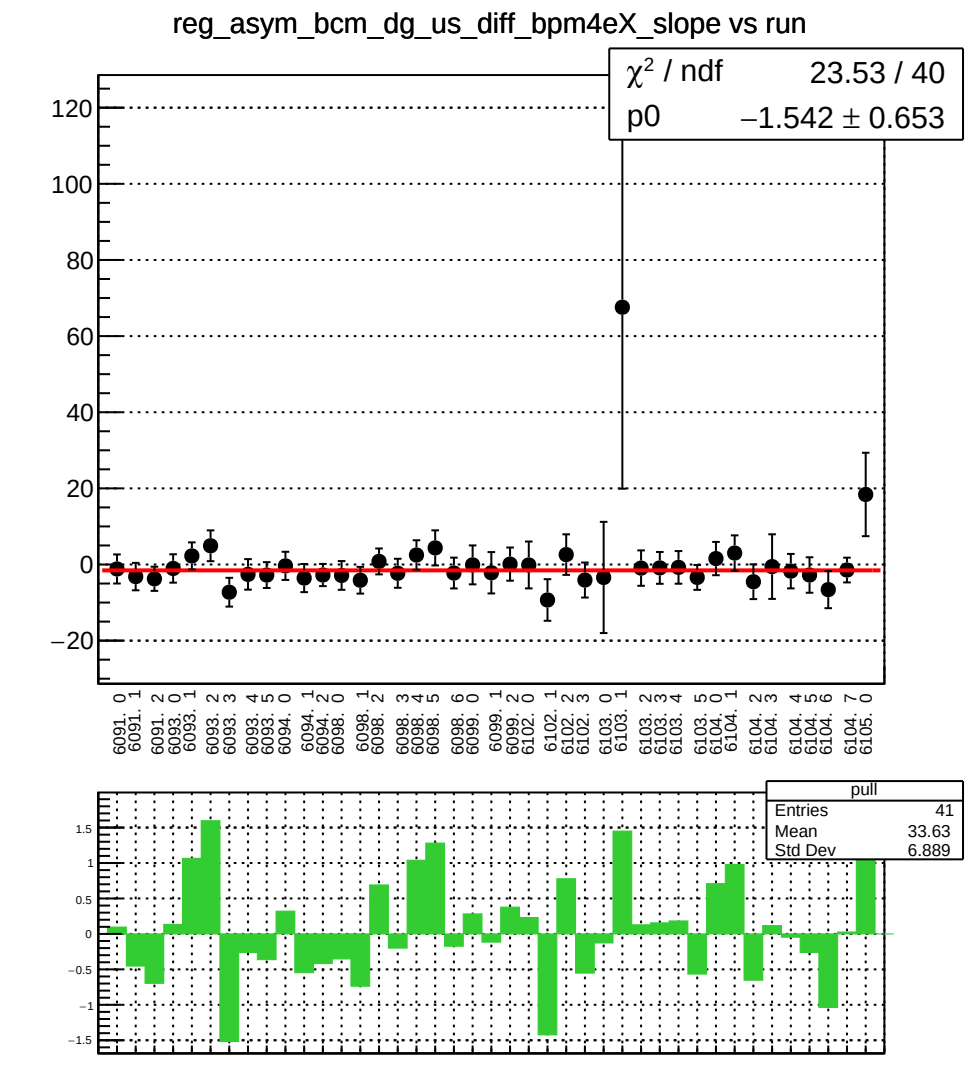

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 74.66 / 40
p0 0.1332 ± 0.02793
pull
Entries 41
Mean −36.13
Std Dev 55.07

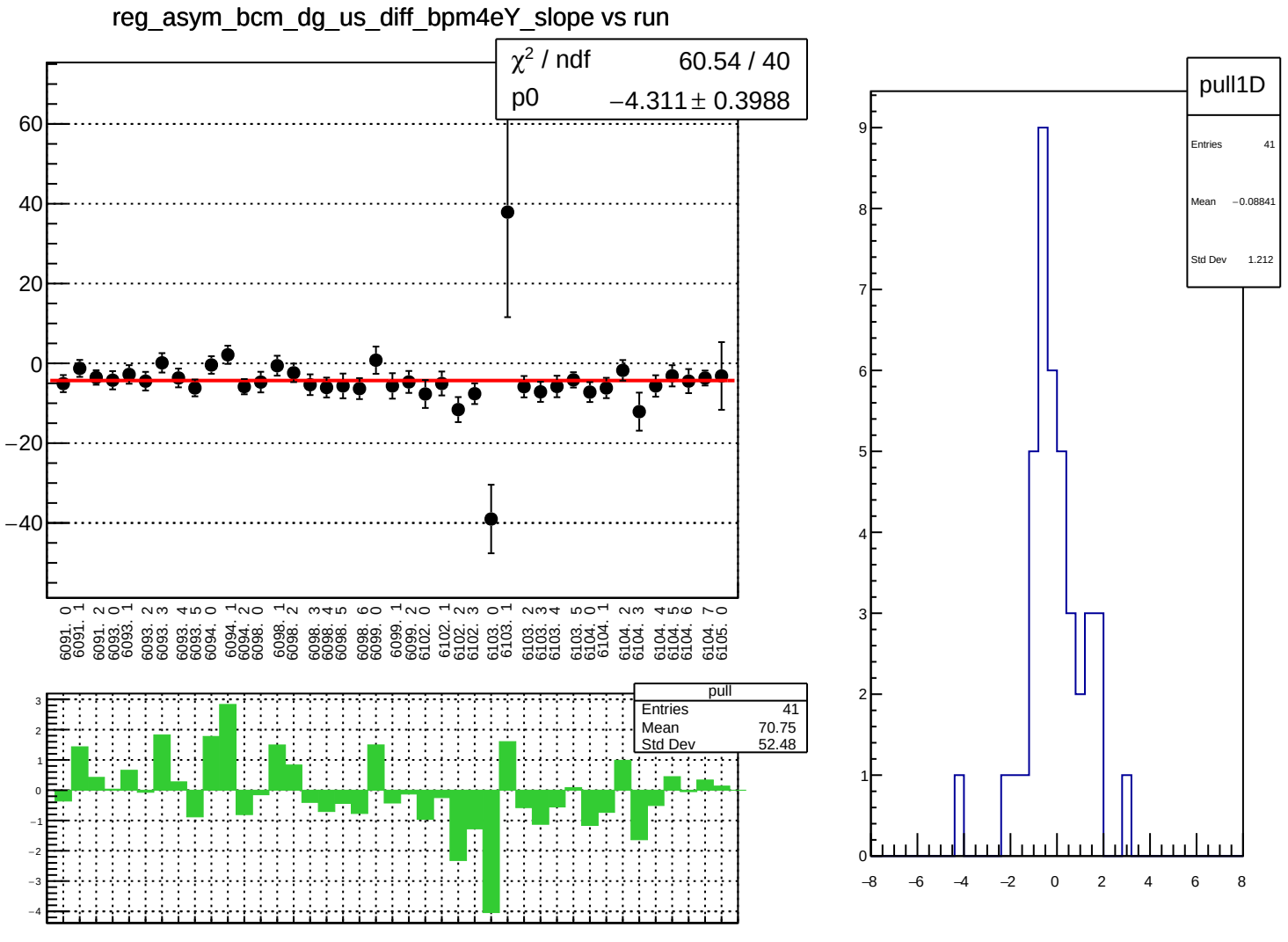

pull1D
Entries 41
Mean 0.1012
Std Dev 1.346

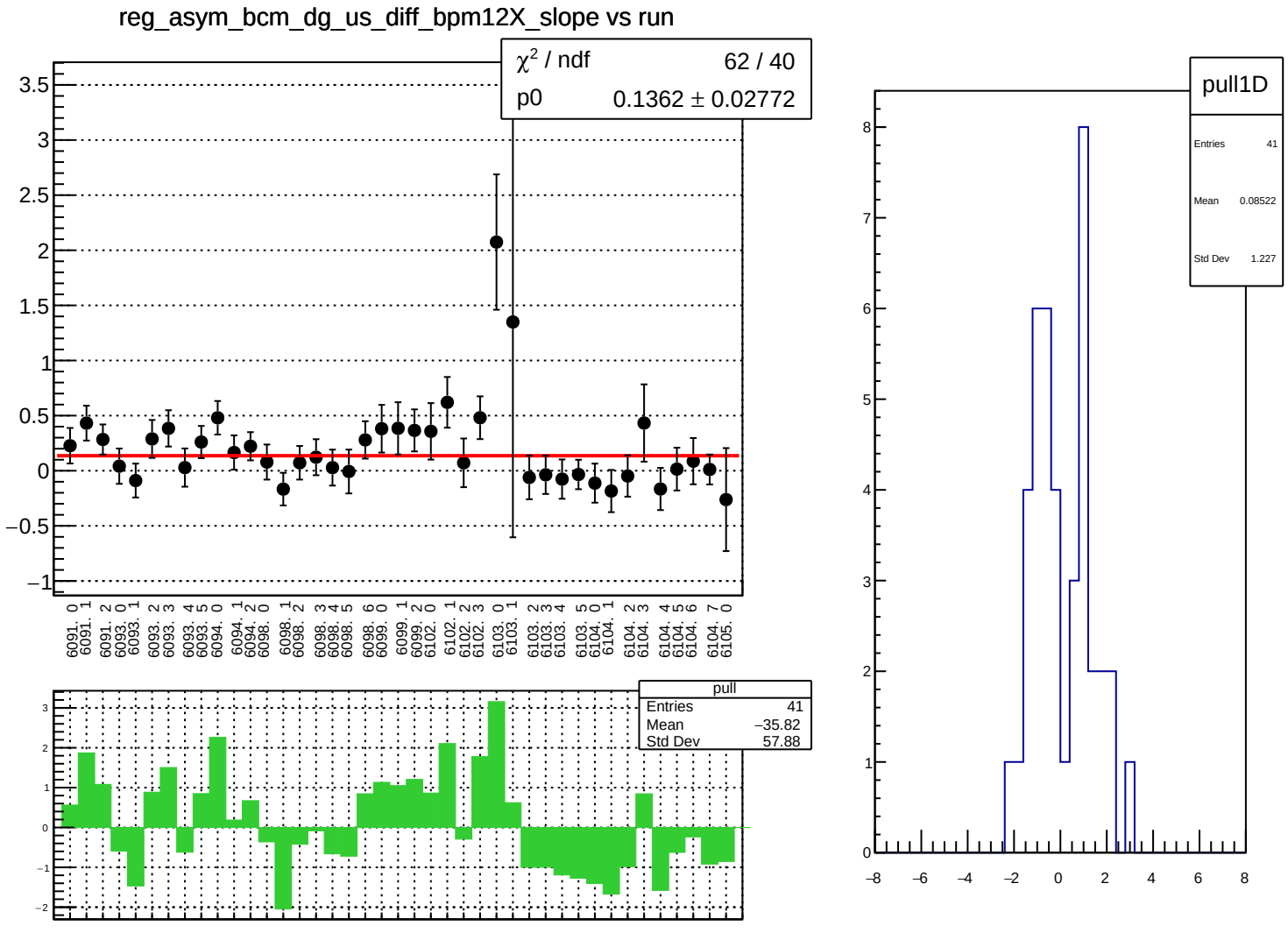

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 24.26 / 40
p0 1.243 ± 0.5602
pull
Entries 41
Mean 42.3
Std Dev 19.53


pull1D
Entries 41
Mean −0.07329
Std Dev 0.7658


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 61.38 / 40
p0 3.987 ± 0.3806
40
20
0
−20
−40
−60
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 81.55
Std Dev 63.71
4
3
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.08339
Std Dev 1.221
7
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 23.53 / 40
p0 −1.542 ± 0.653
120
100
80
60
40
20
0
−20
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 33.63
Std Dev 6.889
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.07212
Std Dev 0.7541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 60.54 / 40
p0 −4.311 ± 0.3988
60
40
20
0
−20
−40
6091. 0
6091. 1
6091. 2
6093. 0
6093. 1
6093. 2
6093. 3
6093. 4
6093. 5
6094. 0
6094. 1
6094. 2
6098. 0
6098. 1
6098. 2
6098. 3
6098. 4
6098. 5
6098. 6
6099. 0
6099. 1
6099. 2
6102. 0
6102. 1
6102. 2
6102. 3
6103. 0
6103. 1
6103. 2
6103. 3
6103. 4
6103. 5
6104. 0
6104. 1
6104. 2
6104. 3
6104. 4
6104. 5
6104. 6
6104. 7
6105. 0
pull
Entries 41
Mean 70.75
Std Dev 52.48
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 41
Mean −0.08841
Std Dev 1.212
9
8
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 62 / 40
p0 0.1362 ± 0.02772
pull
Entries 41
Mean −35.82
Std Dev 57.88
pull1D
Entries 41
Mean 0.08522
Std Dev 1.227