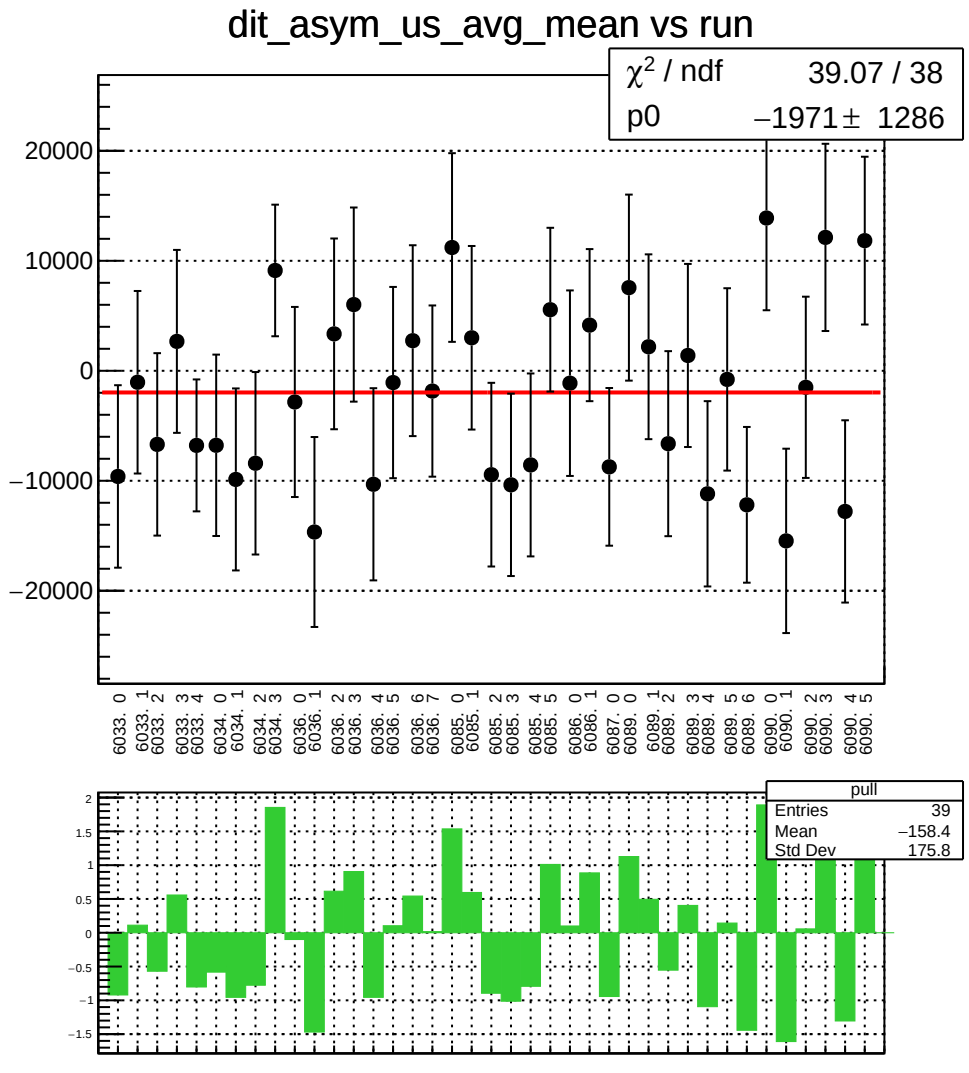
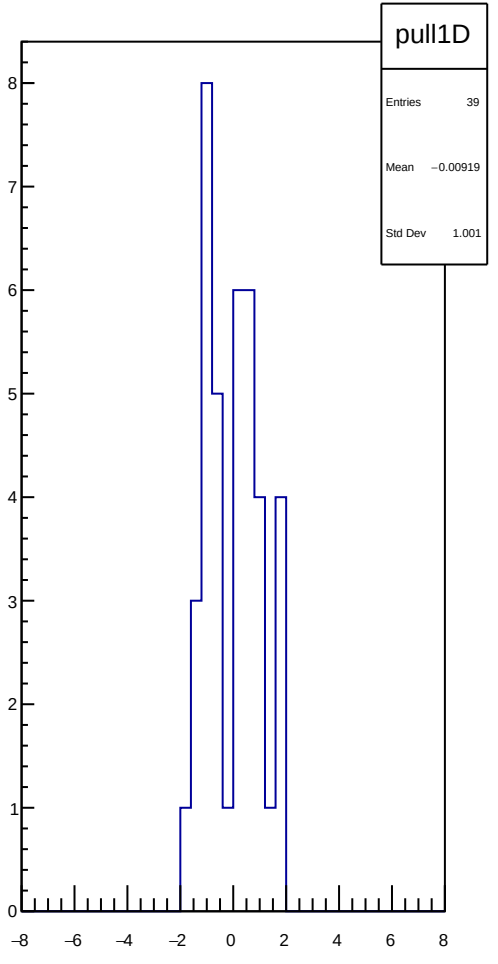
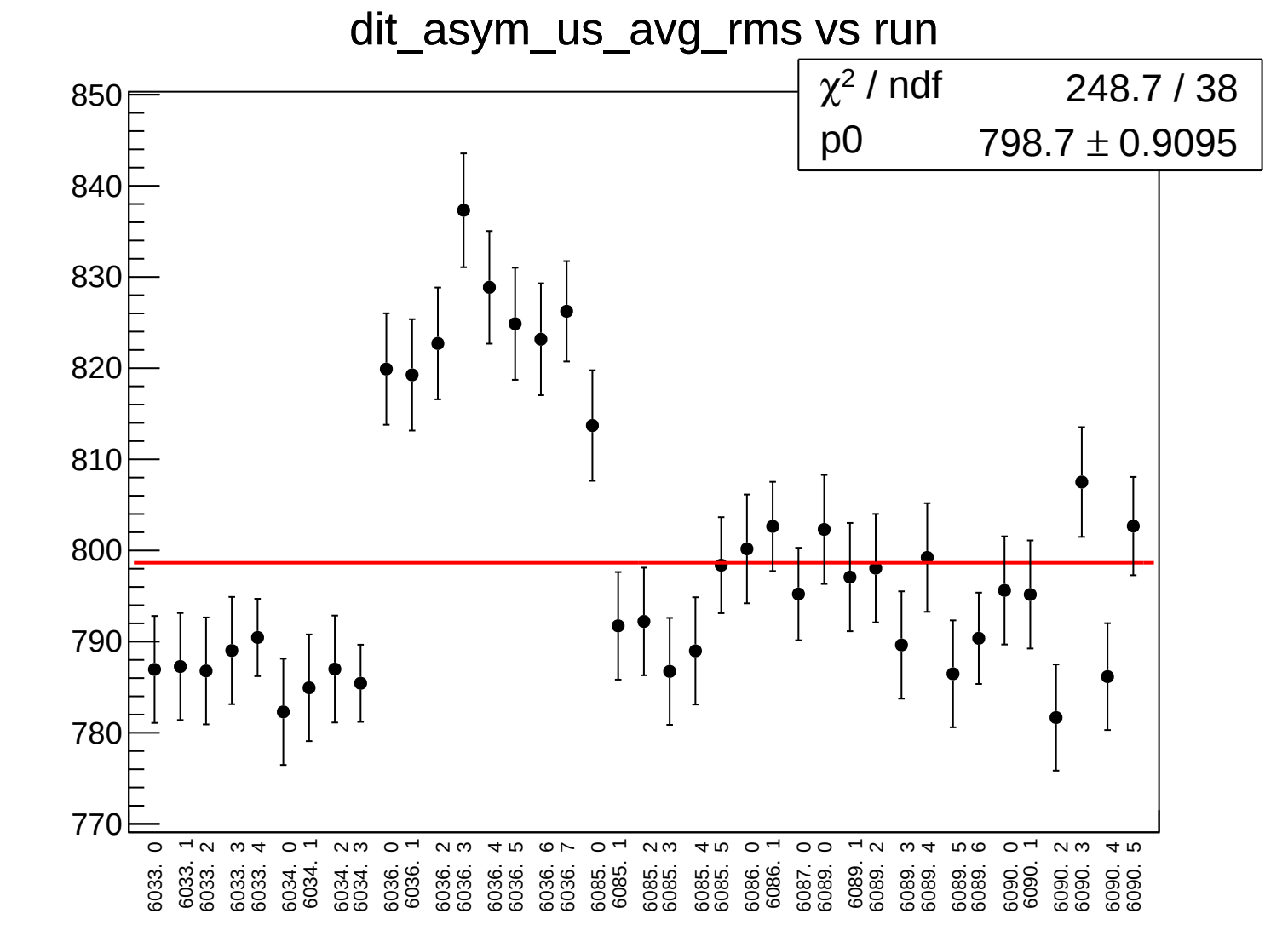
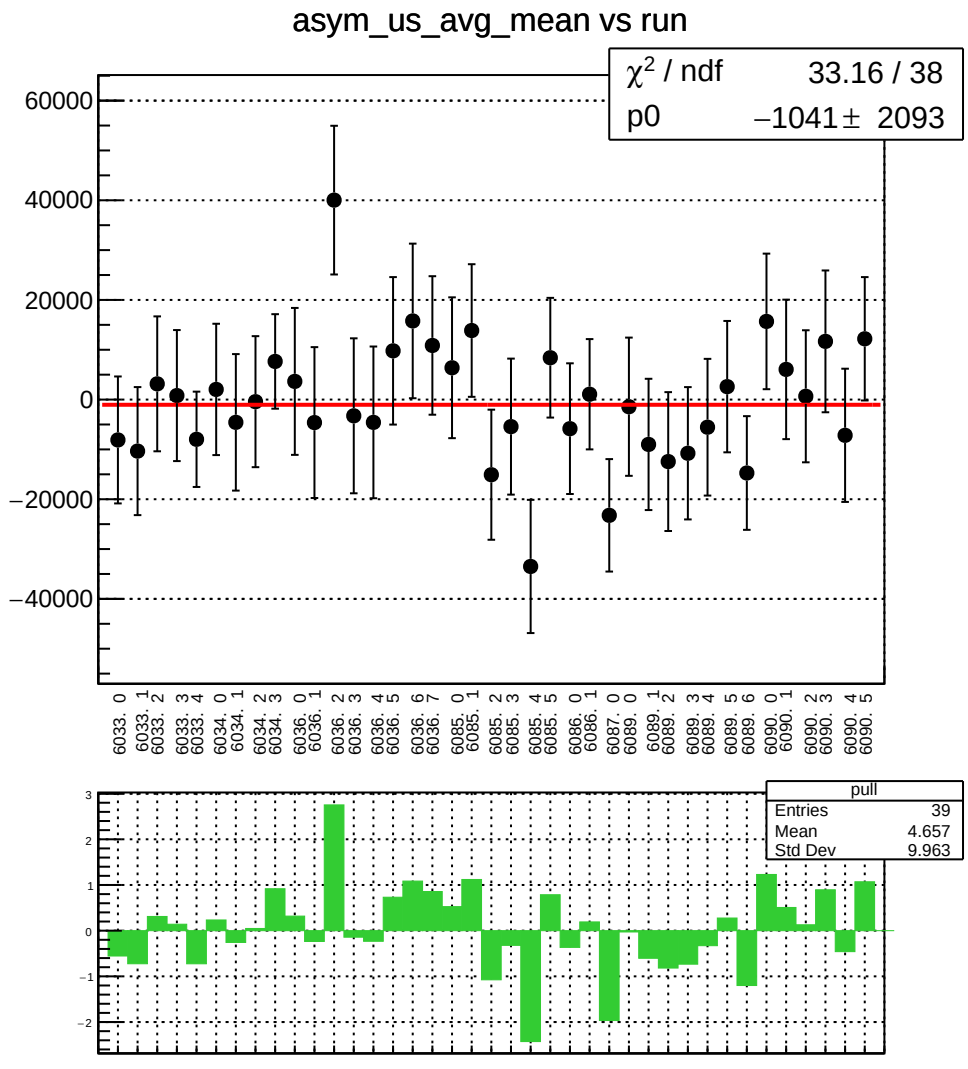
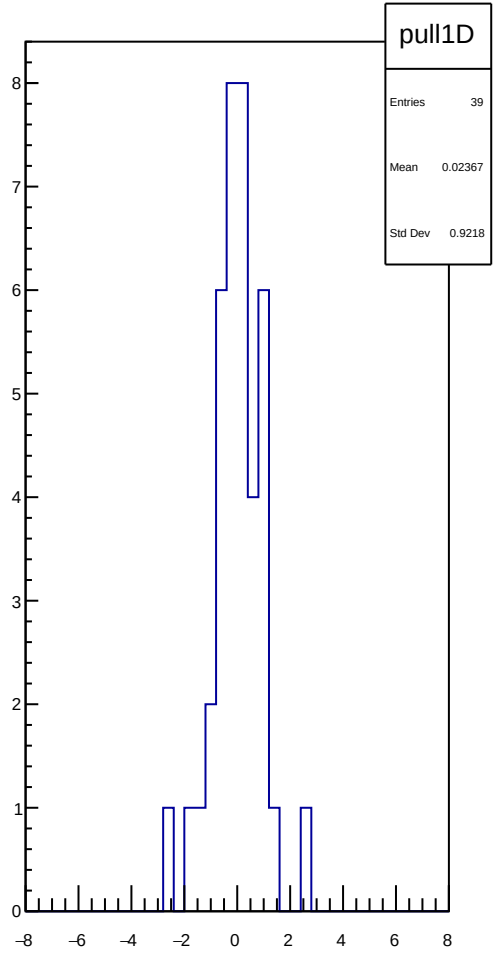
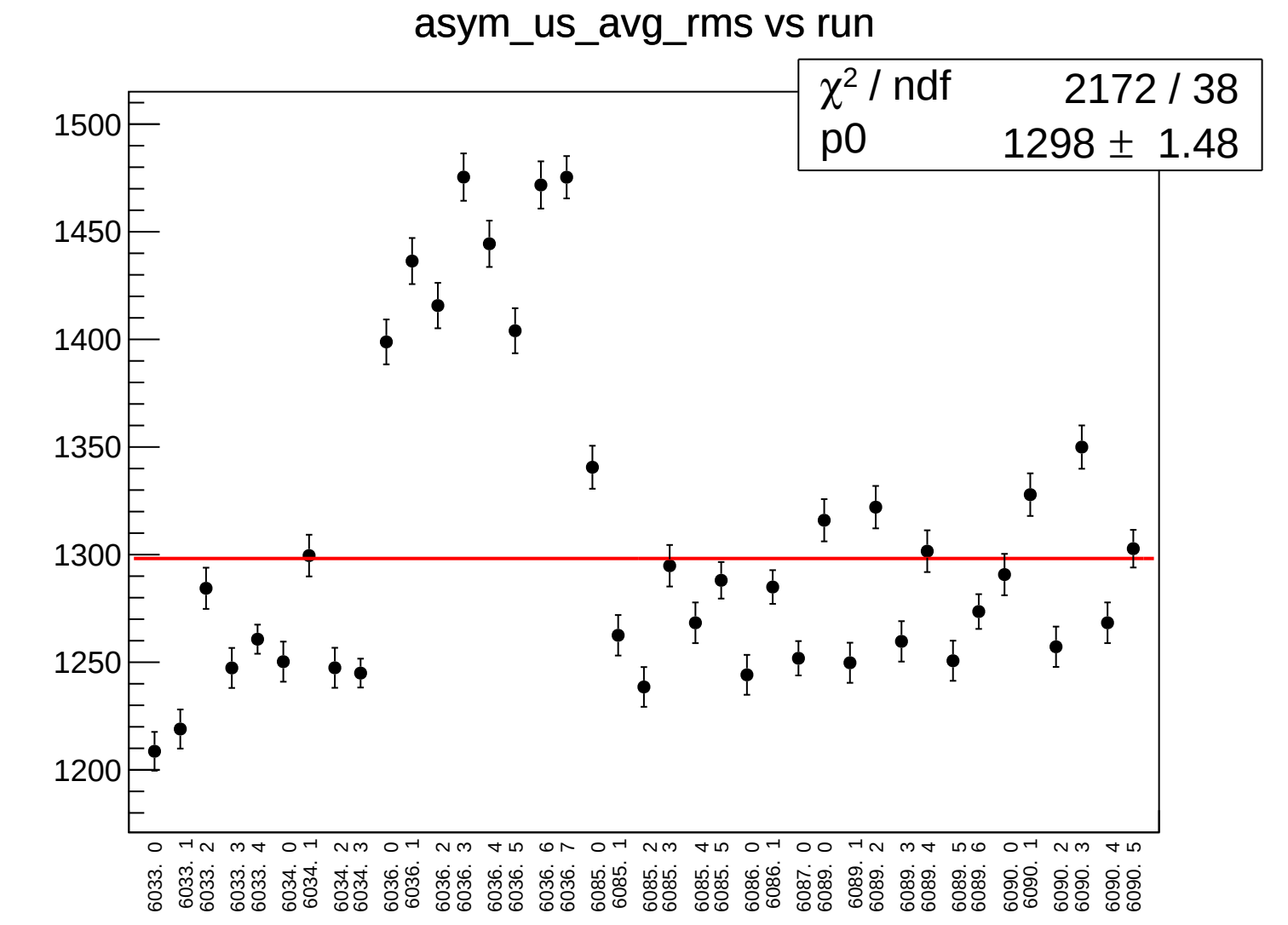

dit_asym_us_avg_mean vs run
χ² / ndf 39.07 / 38
p0 −1971 ± 1286
20000
10000
0
−10000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −158.4
Std Dev 175.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

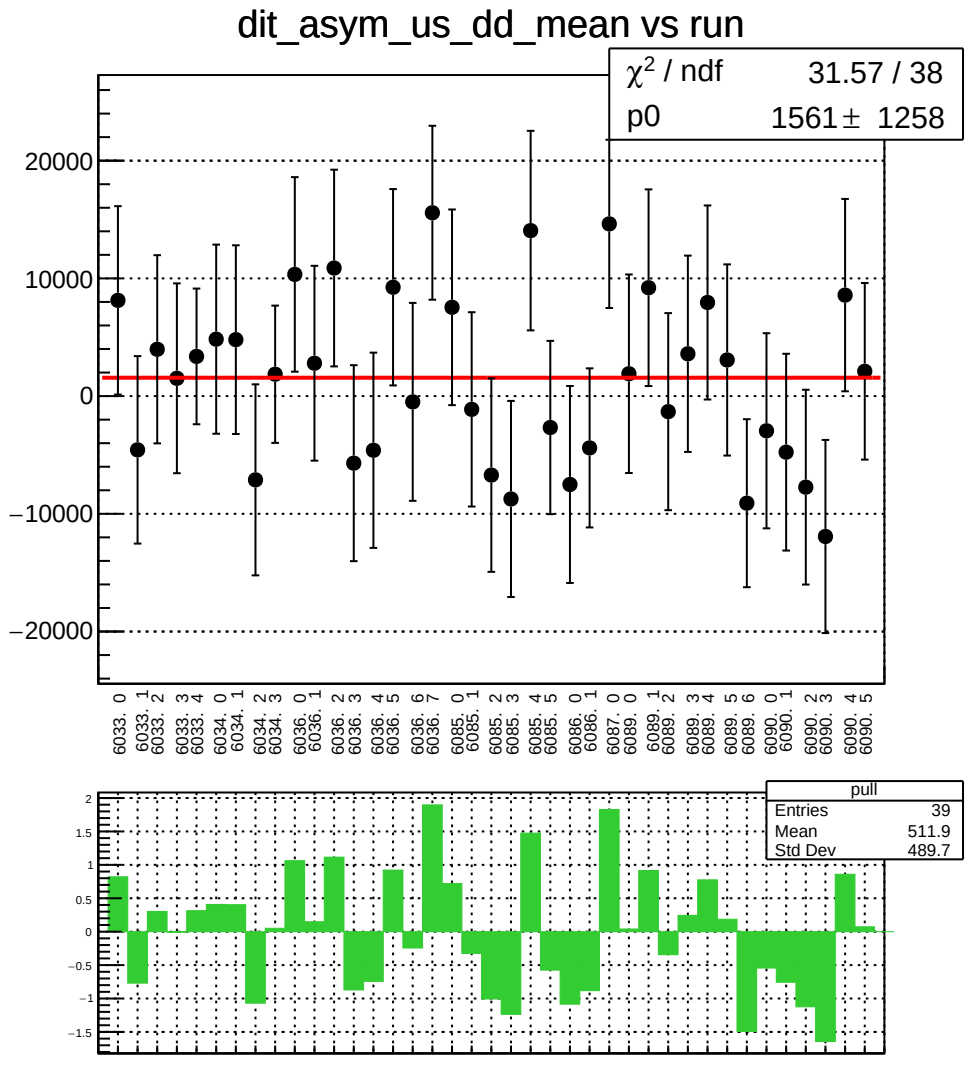

pull1D
Entries 39
Mean −0.00919
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

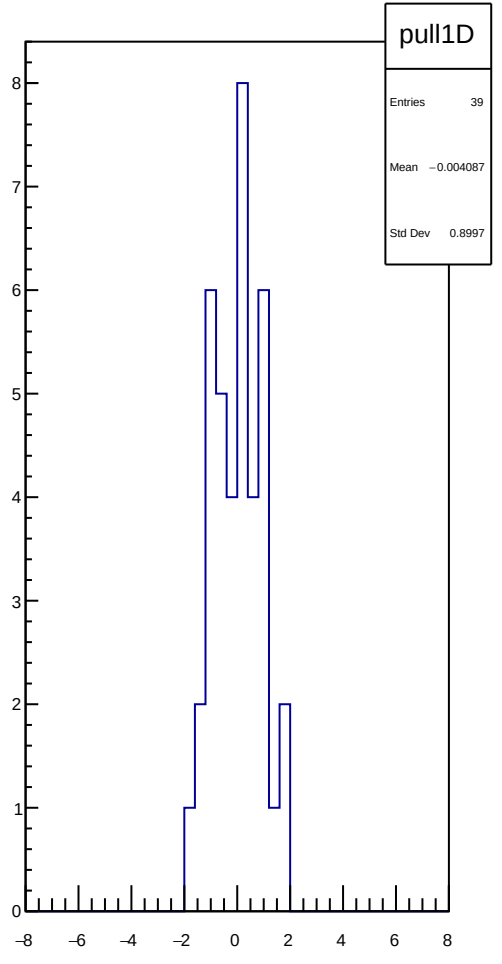

dit_asym_us_avg_rms vs run
χ² / ndf 248.7 / 38
p0 798.7 ± 0.9095
850
840
830
820
810
800
790
780
770
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

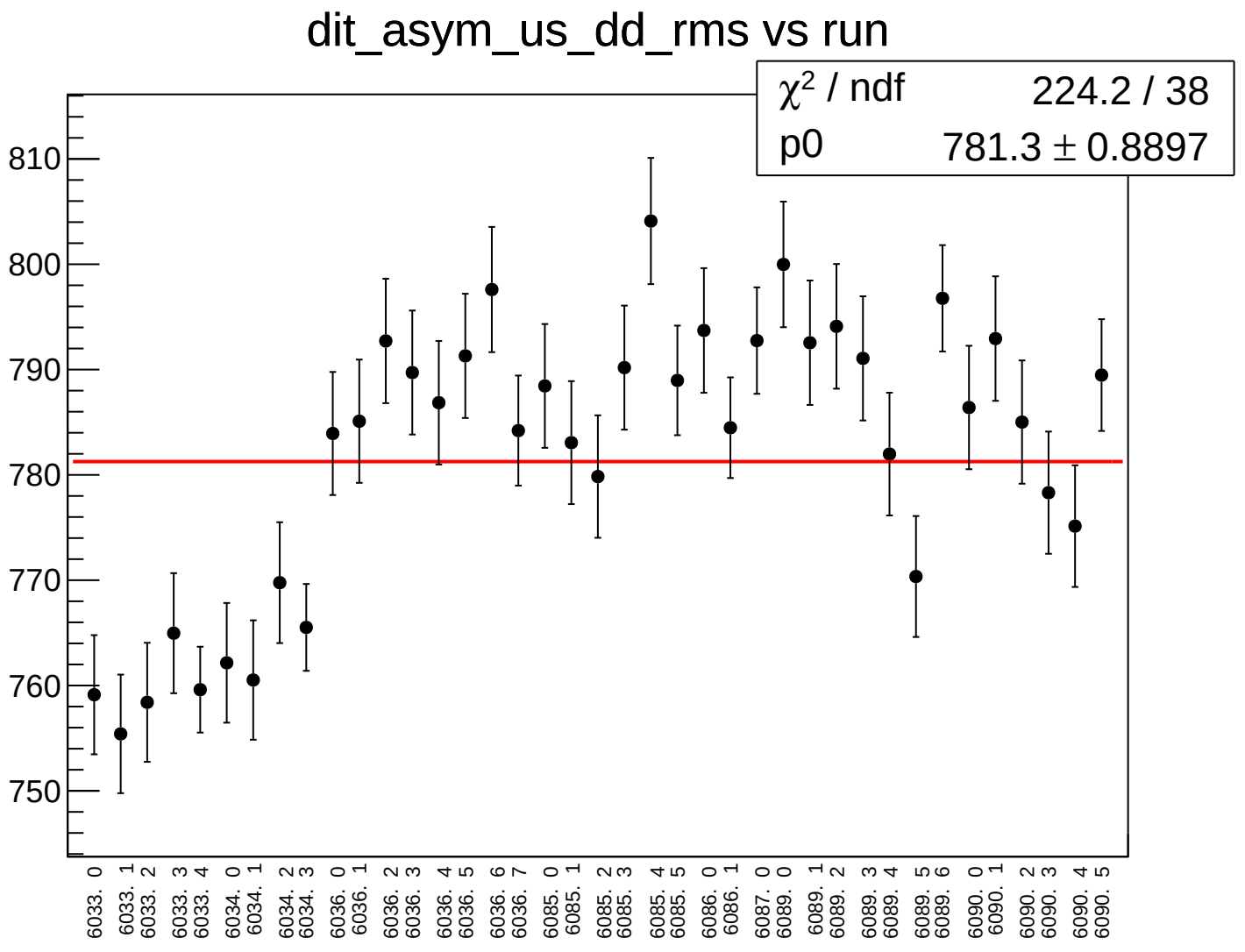

asym_us_avg_mean vs run
χ² / ndf 33.16 / 38
p0 −1041 ± 2093
60000
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

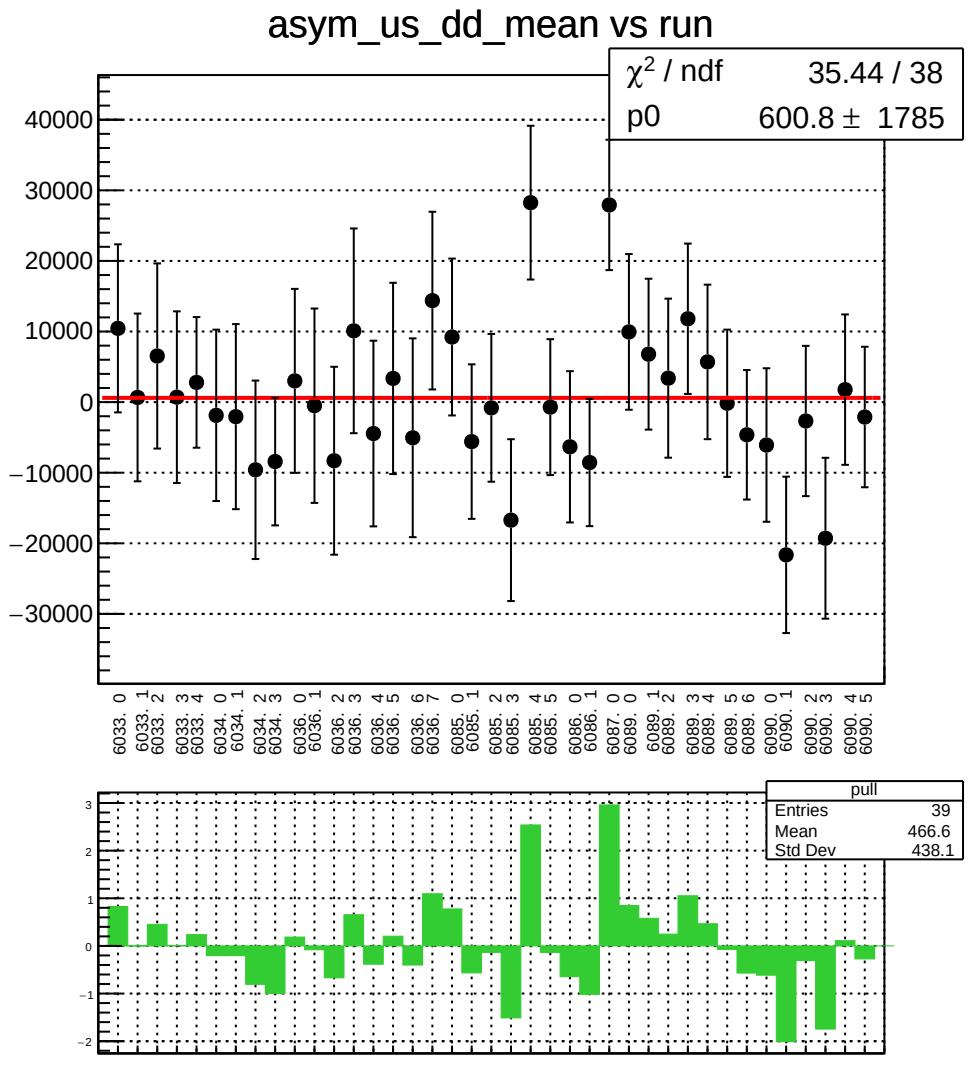

pull1D
Entries 39
Mean 0.02367
Std Dev 0.9218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

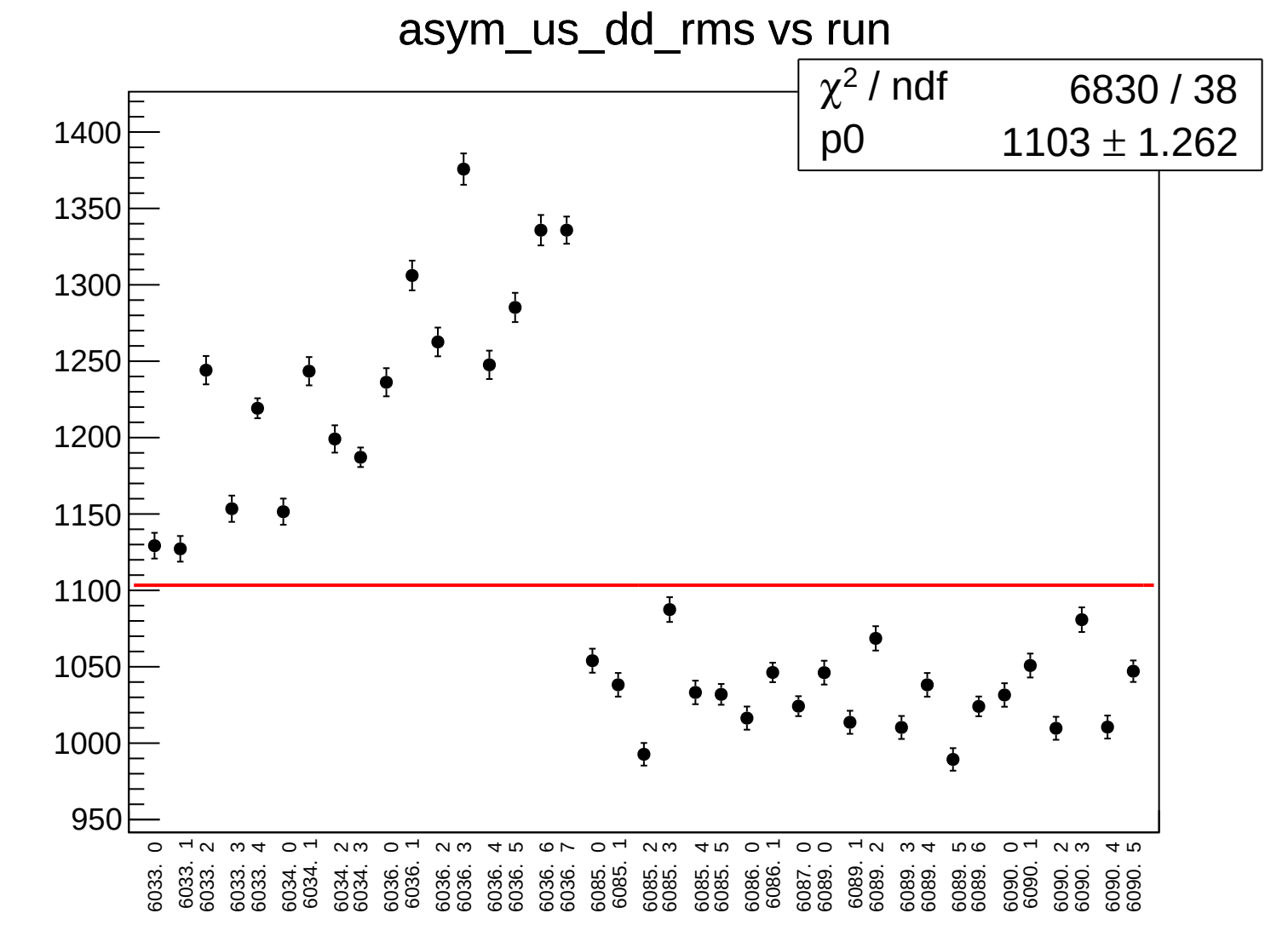

asym_us_avg_rms vs run
χ² / ndf 2172 / 38
p0 1298 ± 1.48
1500
1450
1400
1350
1300
1250
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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

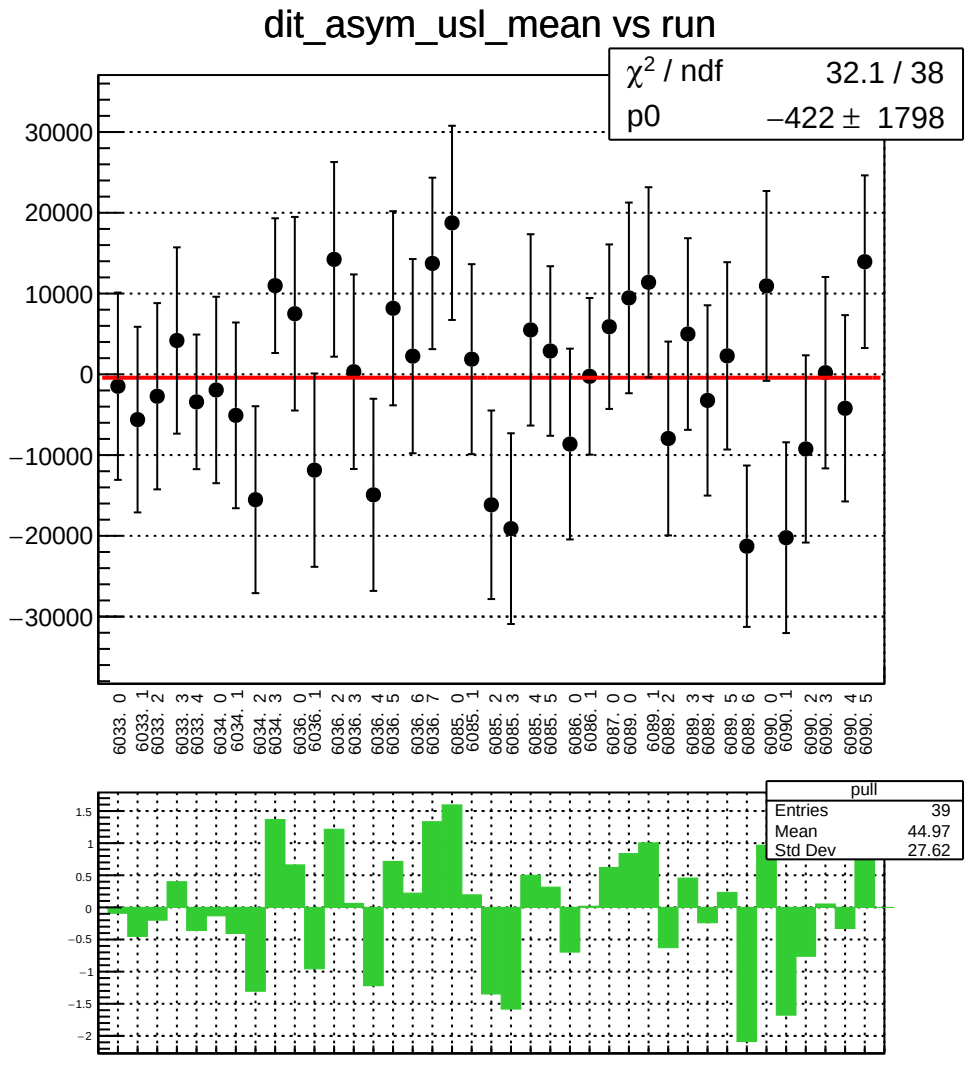

dit_asym_us_dd_mean vs run
χ² / ndf 31.57 / 38
p0 1561 ± 1258
20000
10000
0
−10000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 511.9
Std Dev 489.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

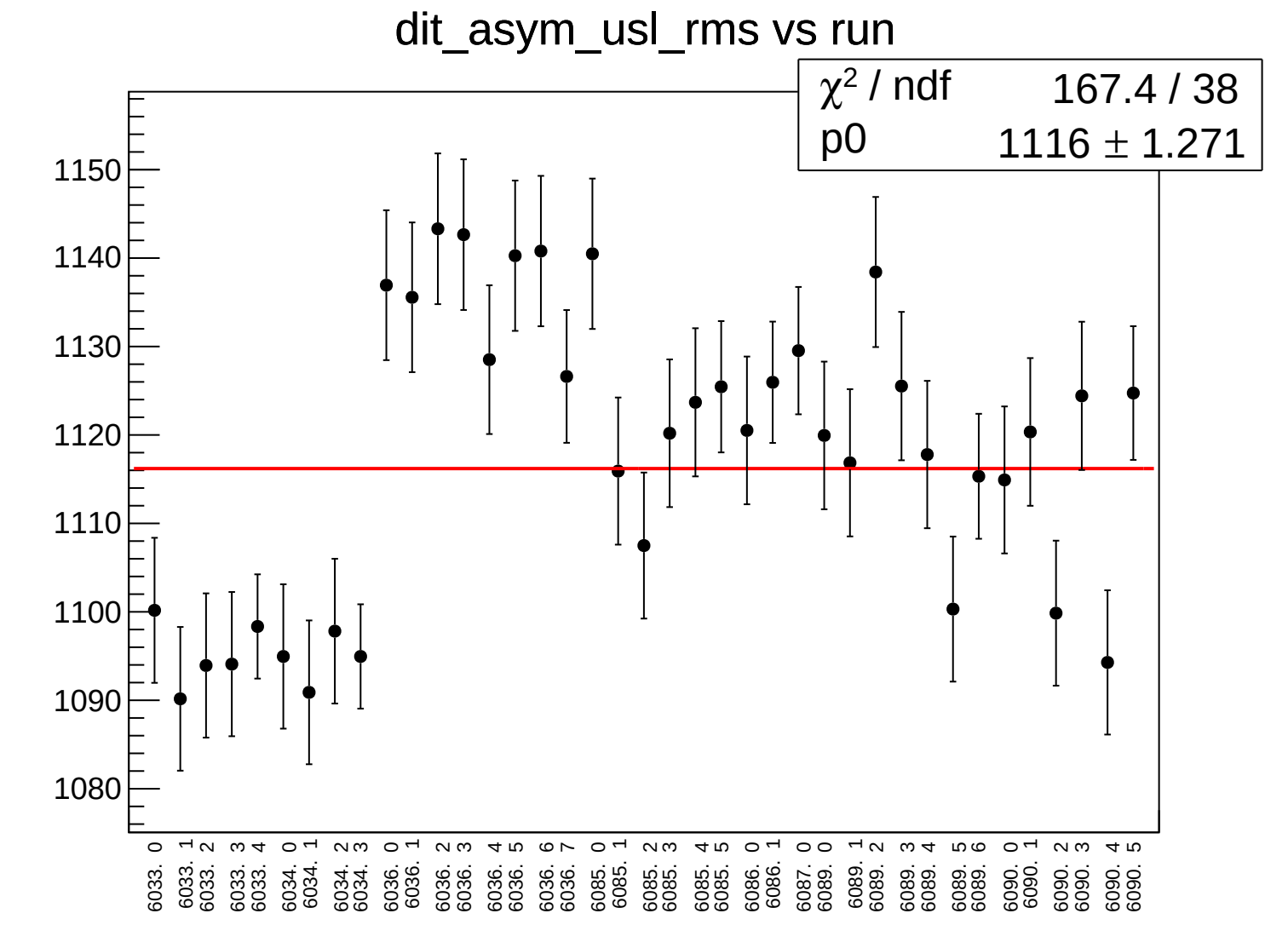

pull1D
Entries 39
Mean −0.004087
Std Dev 0.8997
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

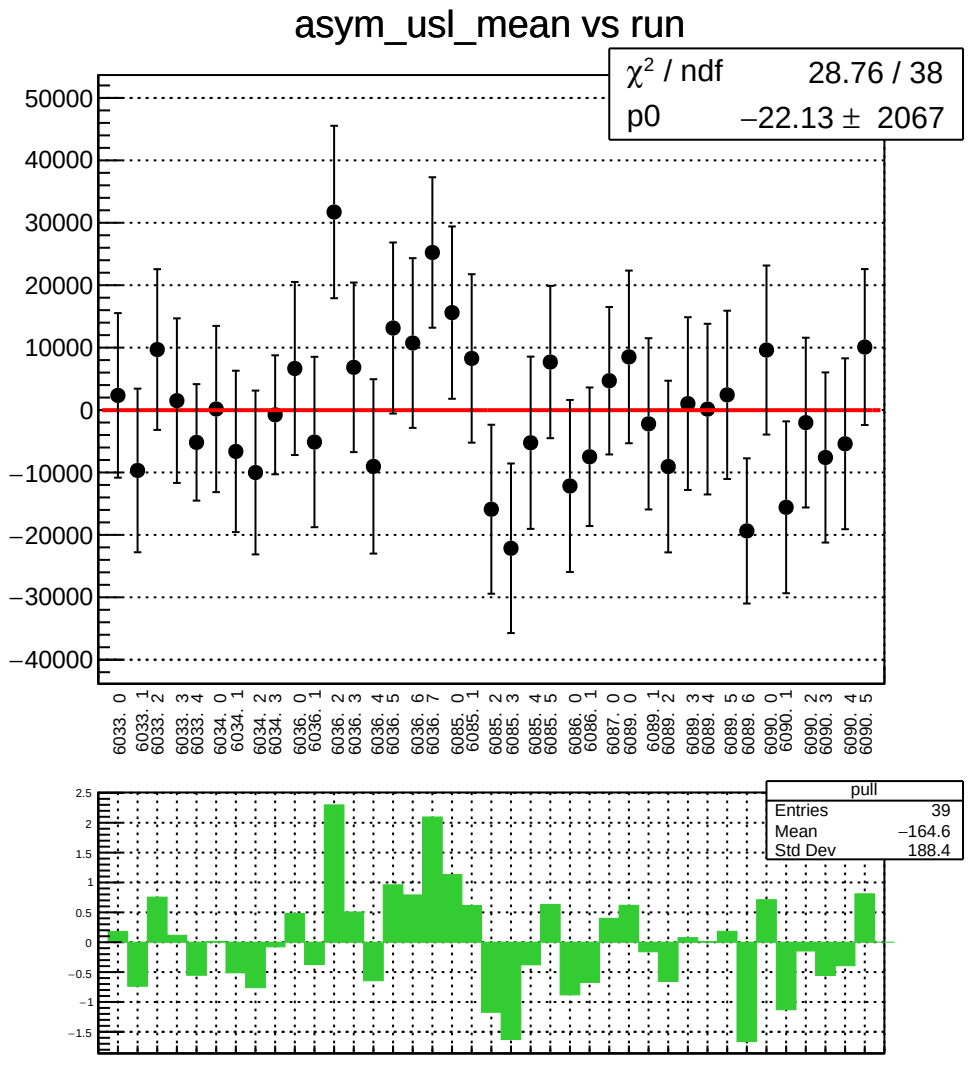

dit_asym_us_dd_rms vs run
χ² / ndf 224.2 / 38
p0 781.3 ± 0.8897
810
800
790
780
770
760
750
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

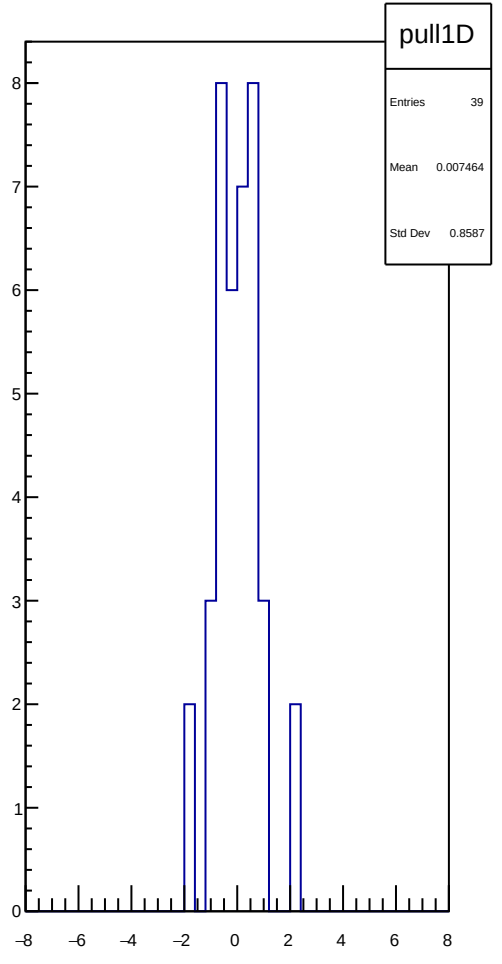

asym_us_dd_mean vs run
χ² / ndf 35.44 / 38
p0 600.8 ± 1785
40000
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

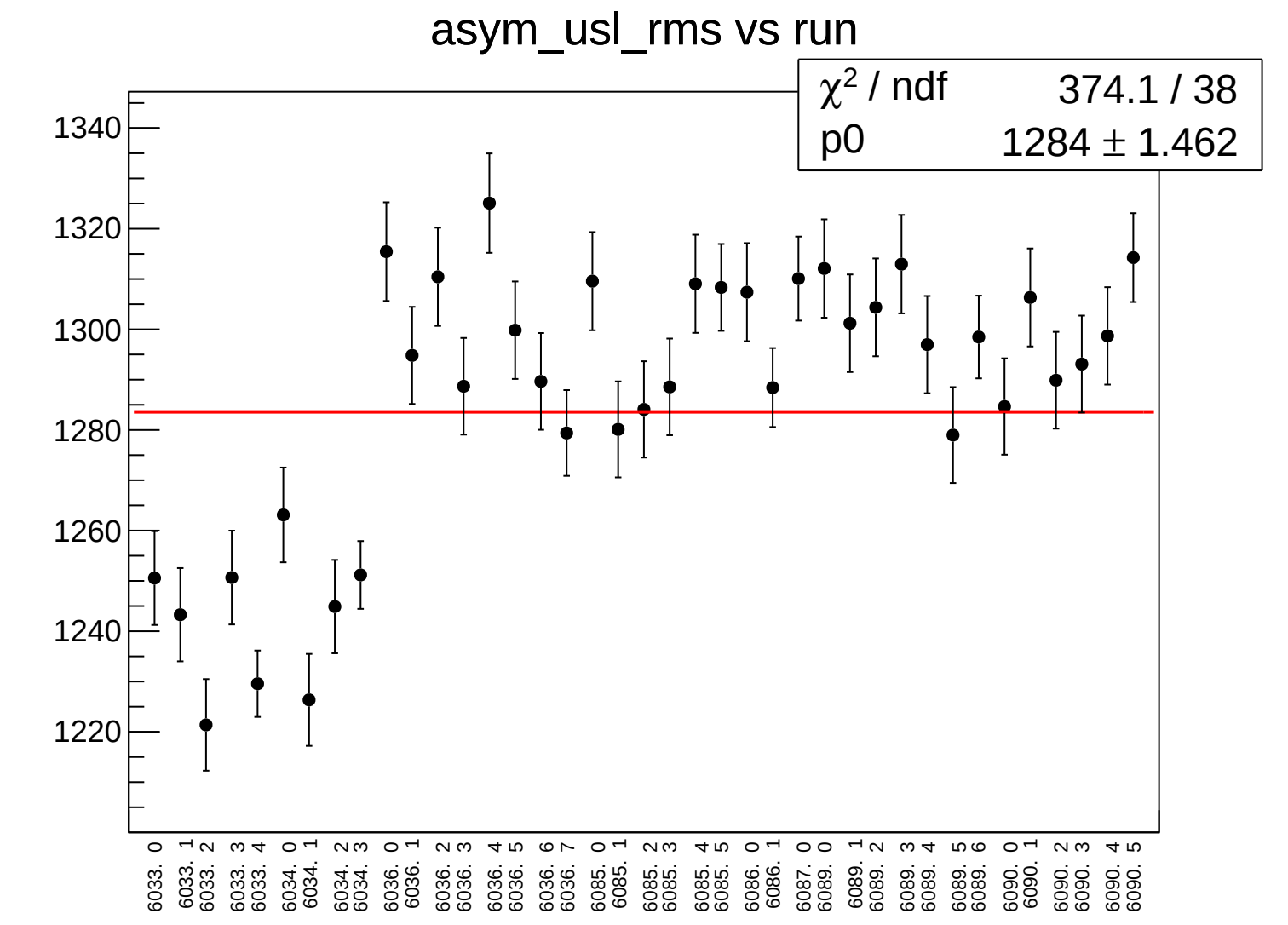

asym_us_dd_rms vs run
χ² / ndf 6830 / 38
p0 1103 ± 1.262
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

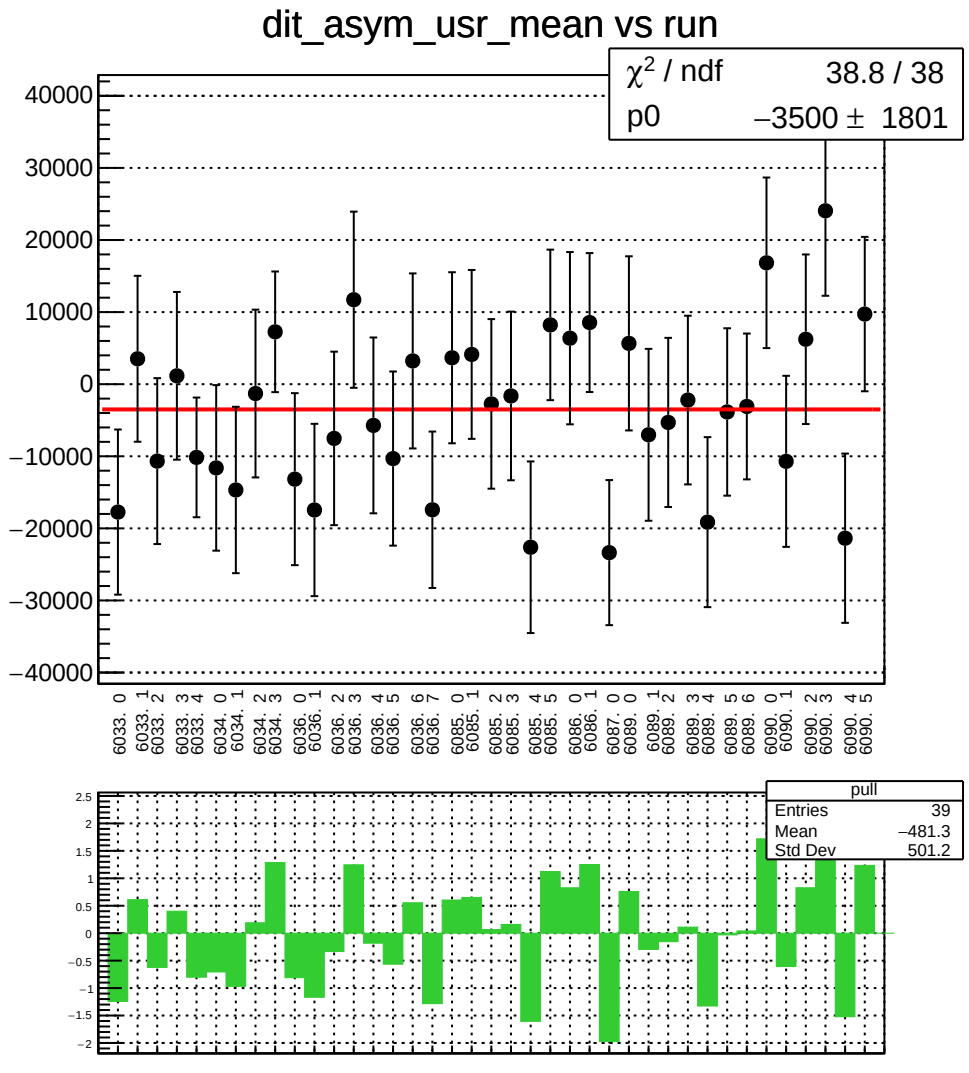

dit_asym_usl_mean vs run
χ² / ndf 32.1 / 38
p0 −422 ± 1798
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 44.97
Std Dev 27.62
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.008851
Std Dev 0.9072
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

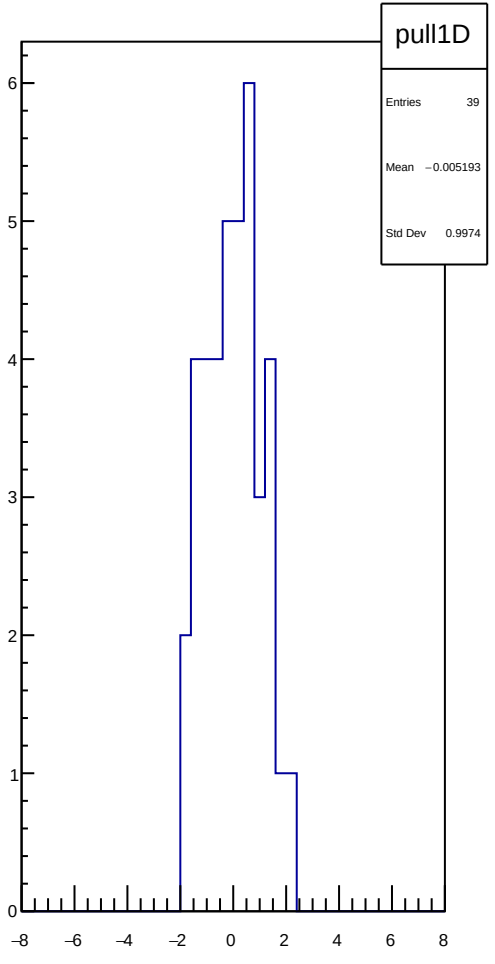

dit_asym_usl_rms vs run
χ² / ndf 167.4 / 38
p0 1116 ± 1.271
1150
1140
1130
1120
1110
1100
1090
1080
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

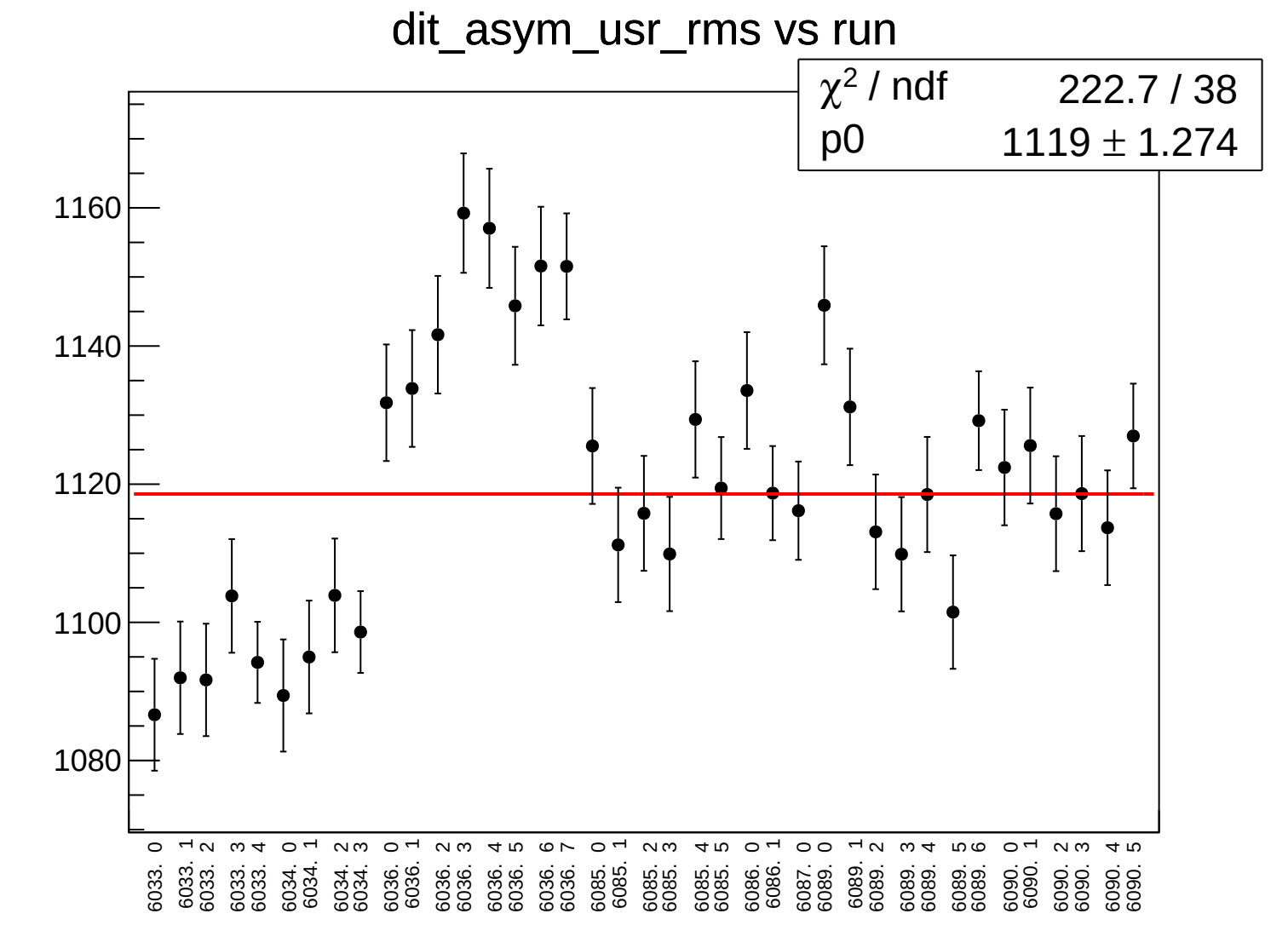

asym_usl_mean vs run
χ² / ndf 28.76 / 38
p0 −22.13 ± 2067
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5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

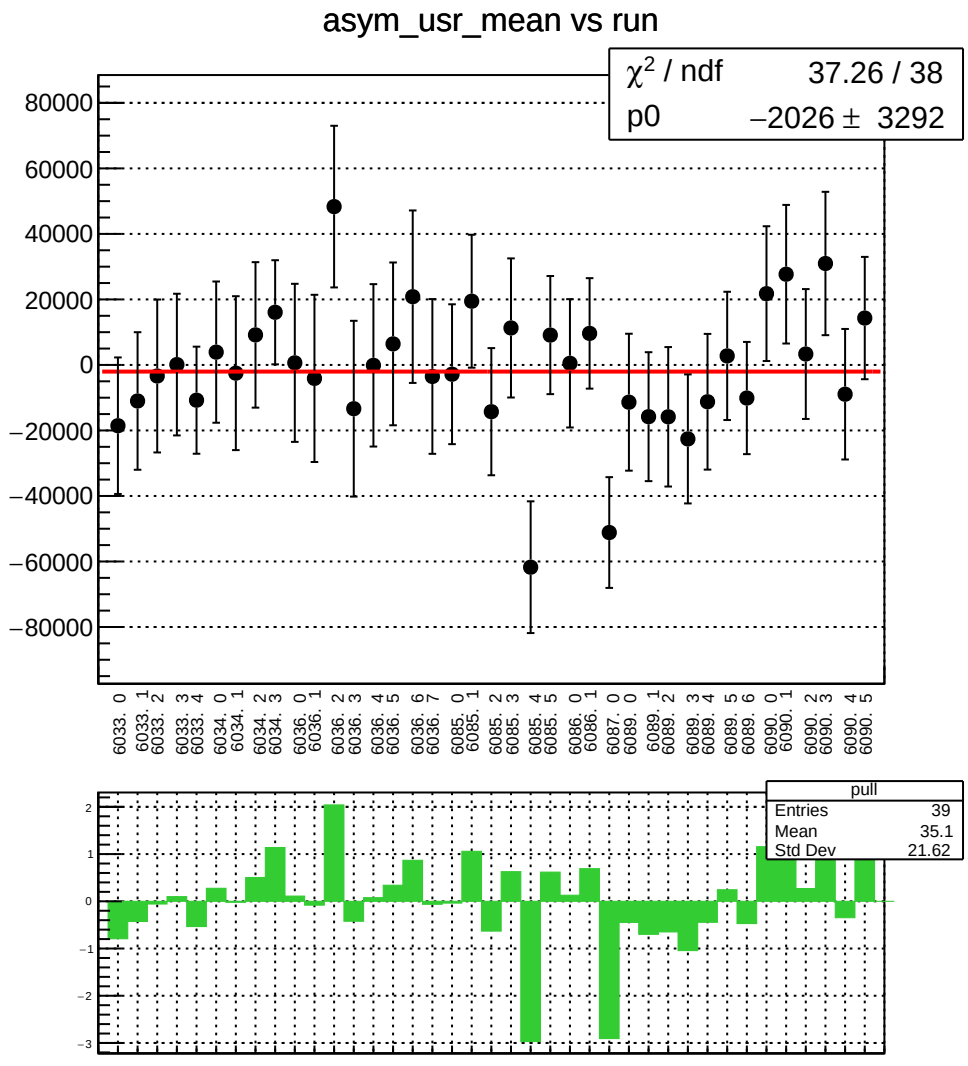

pull1D
Entries 39
Mean 0.007464
Std Dev 0.8587
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

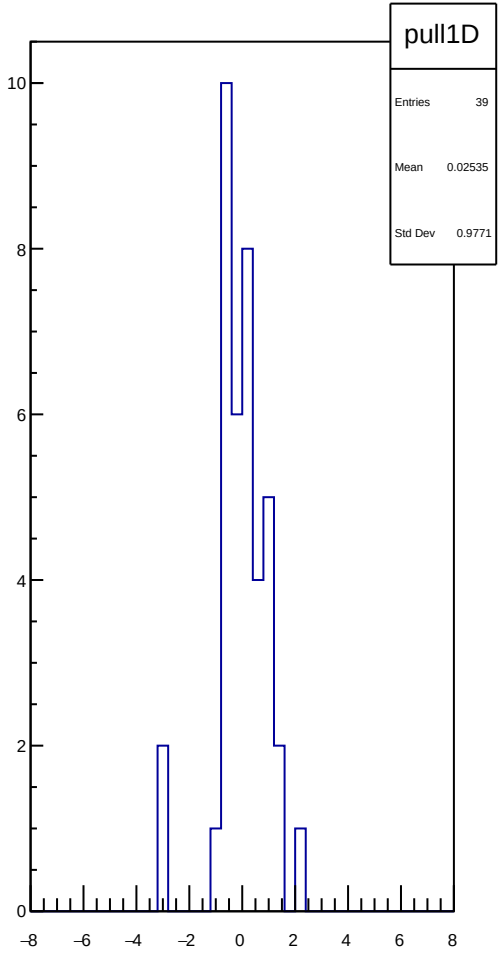

asym_usl_rms vs run
χ² / ndf 374.1 / 38
p0 1284 ± 1.462
1340
1320
1300
1280
1260
1240
1220
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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

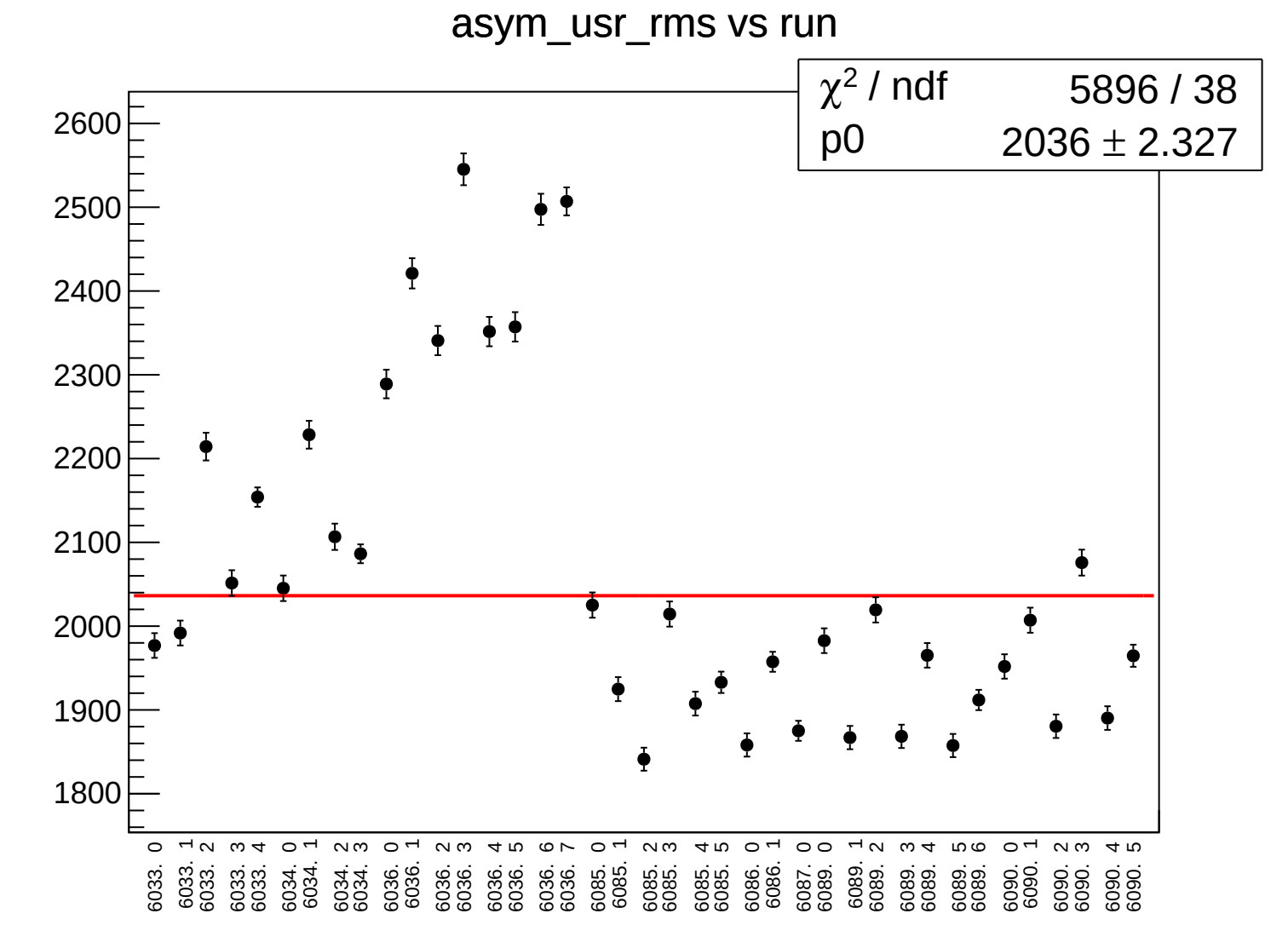

dit_asym_usr_mean vs run
χ² / ndf 38.8 / 38
p0 −3500 ± 1801
pull
Entries 39
Mean −481.3
Std Dev 501.2

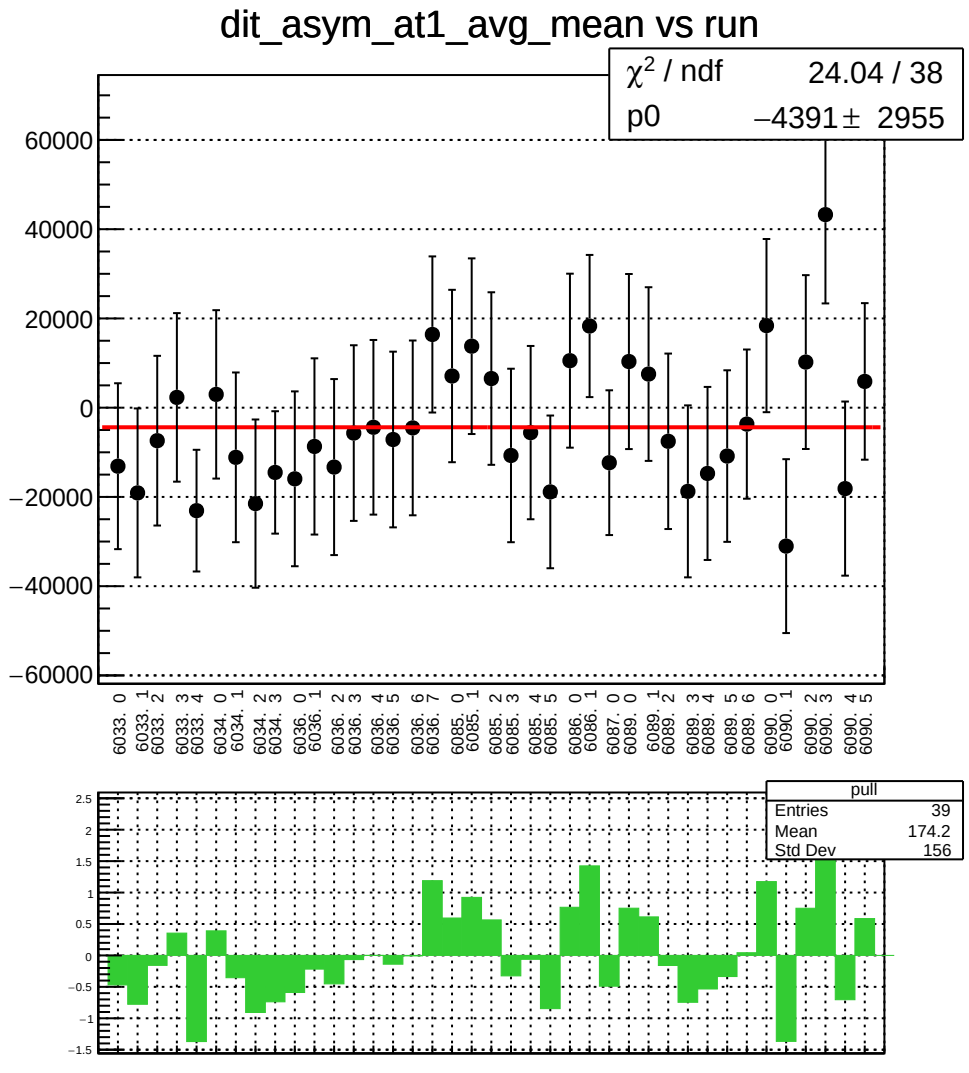

pull1D
Entries 39
Mean −0.005193
Std Dev 0.9974

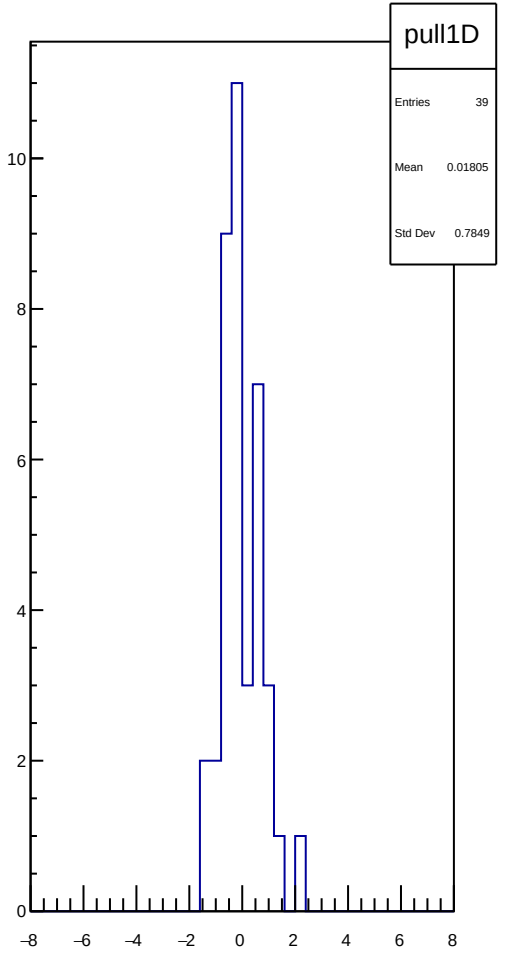

dit_asym_usr_rms vs run
χ² / ndf 222.7 / 38
p0 1119 ± 1.274
1160
1140
1120
1100
1080
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

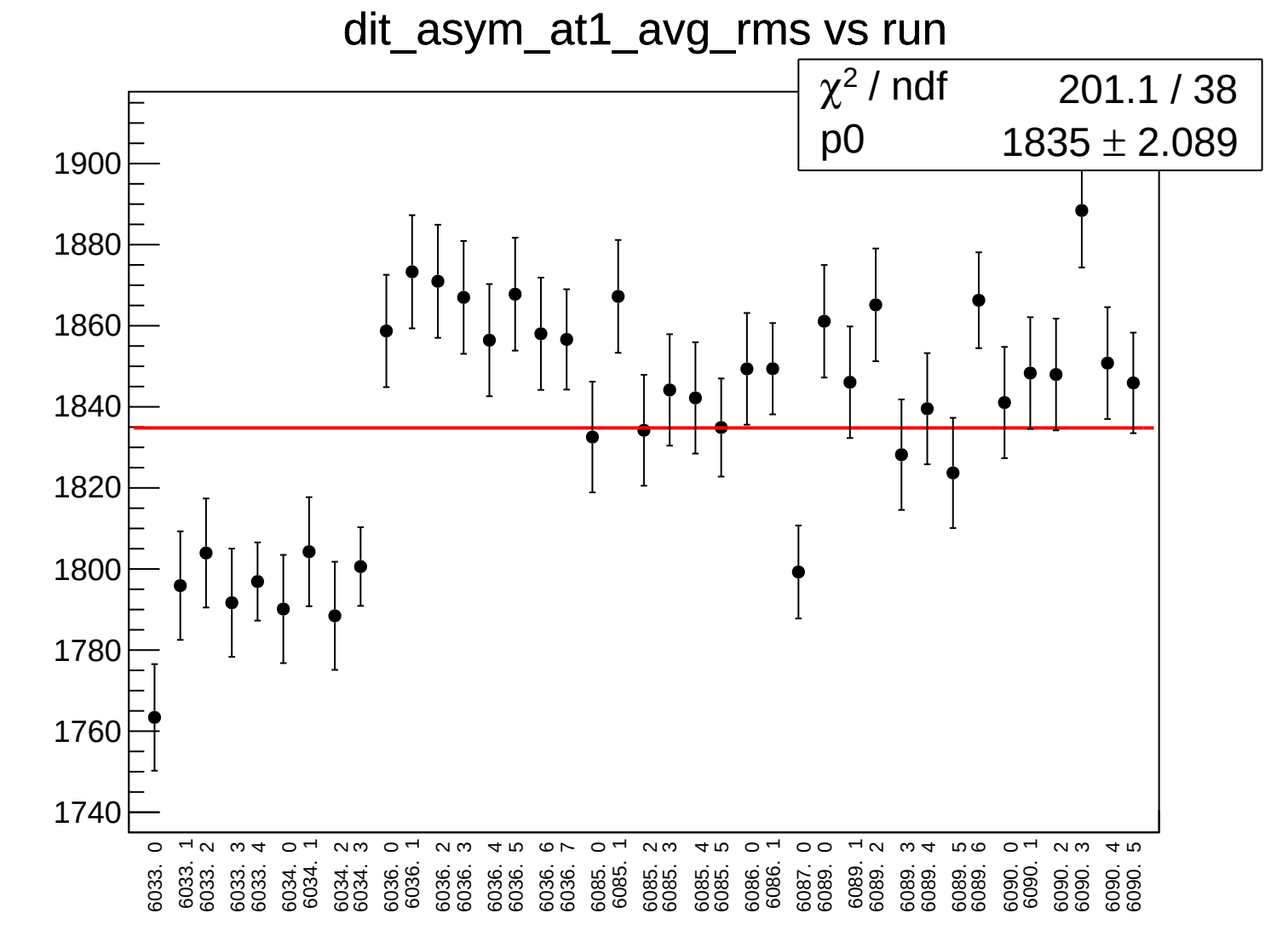

asym_usr_mean vs run
χ² / ndf 37.26 / 38
p0 −2026 ± 3292
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086.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

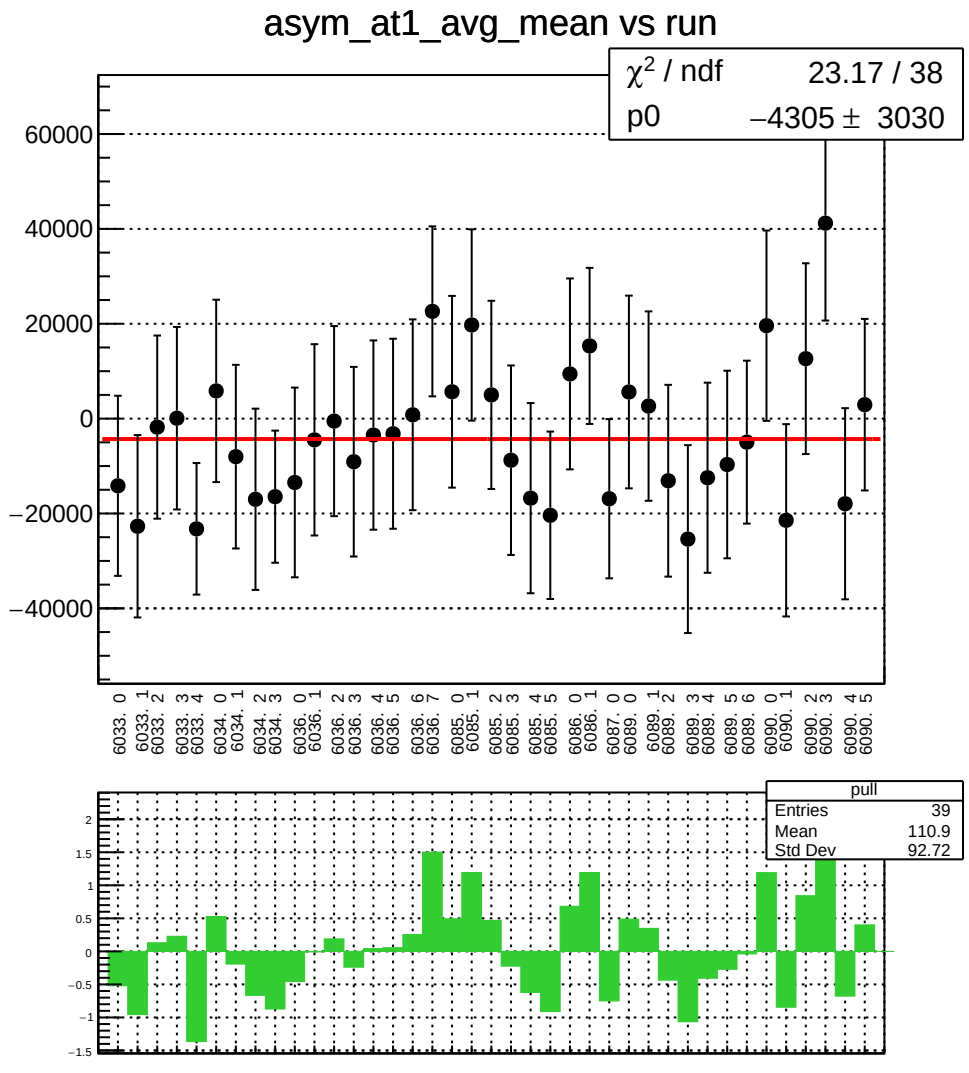

pull1D
Entries 39
Mean 0.02535
Std Dev 0.9771
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

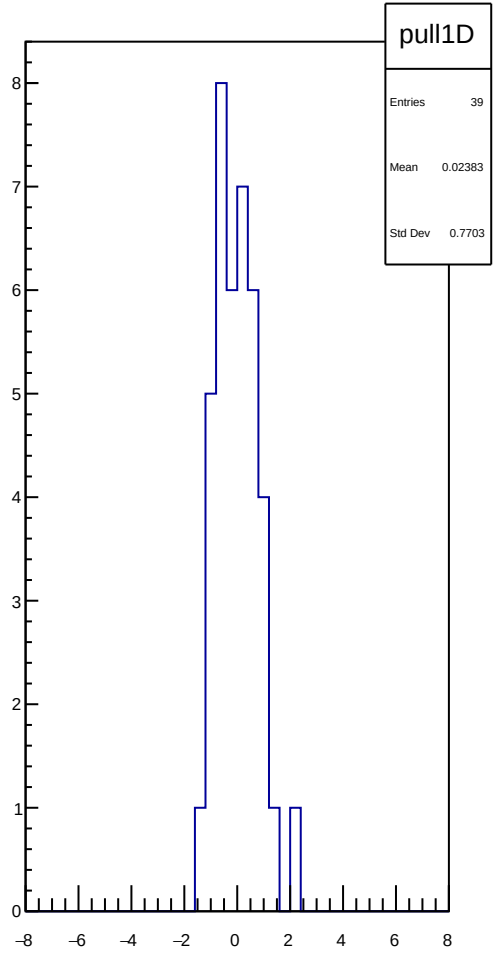

asym_usr_rms vs run
χ² / ndf 5896 / 38
p0 2036 ± 2.327
2600
2500
2400
2300
2200
2100
2000
1900
1800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

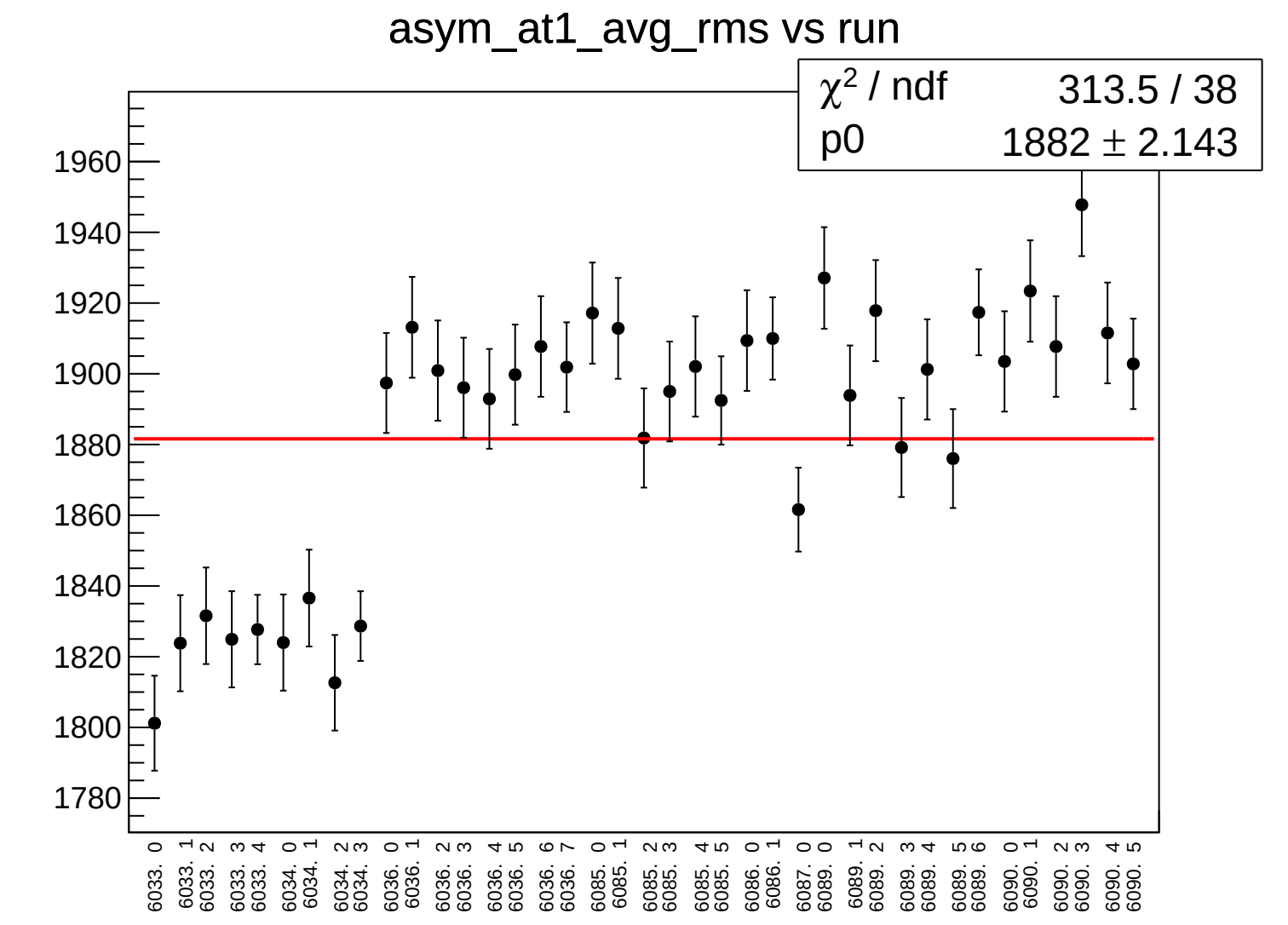

dit_asym_at1_avg_mean vs run
χ² / ndf 24.04 / 38
p0 −4391 ± 2955
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 174.2
Std Dev 156
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

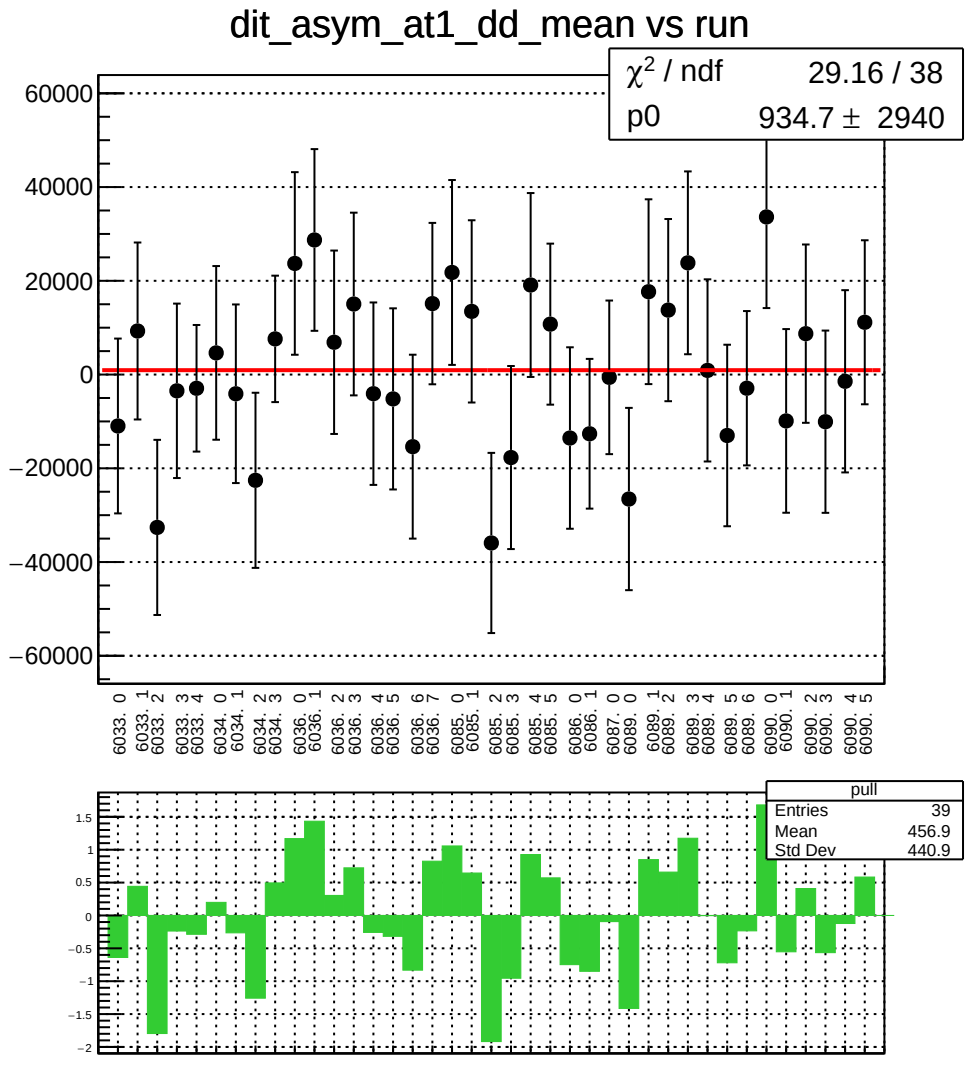

pull1D
Entries 39
Mean 0.01805
Std Dev 0.7849
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

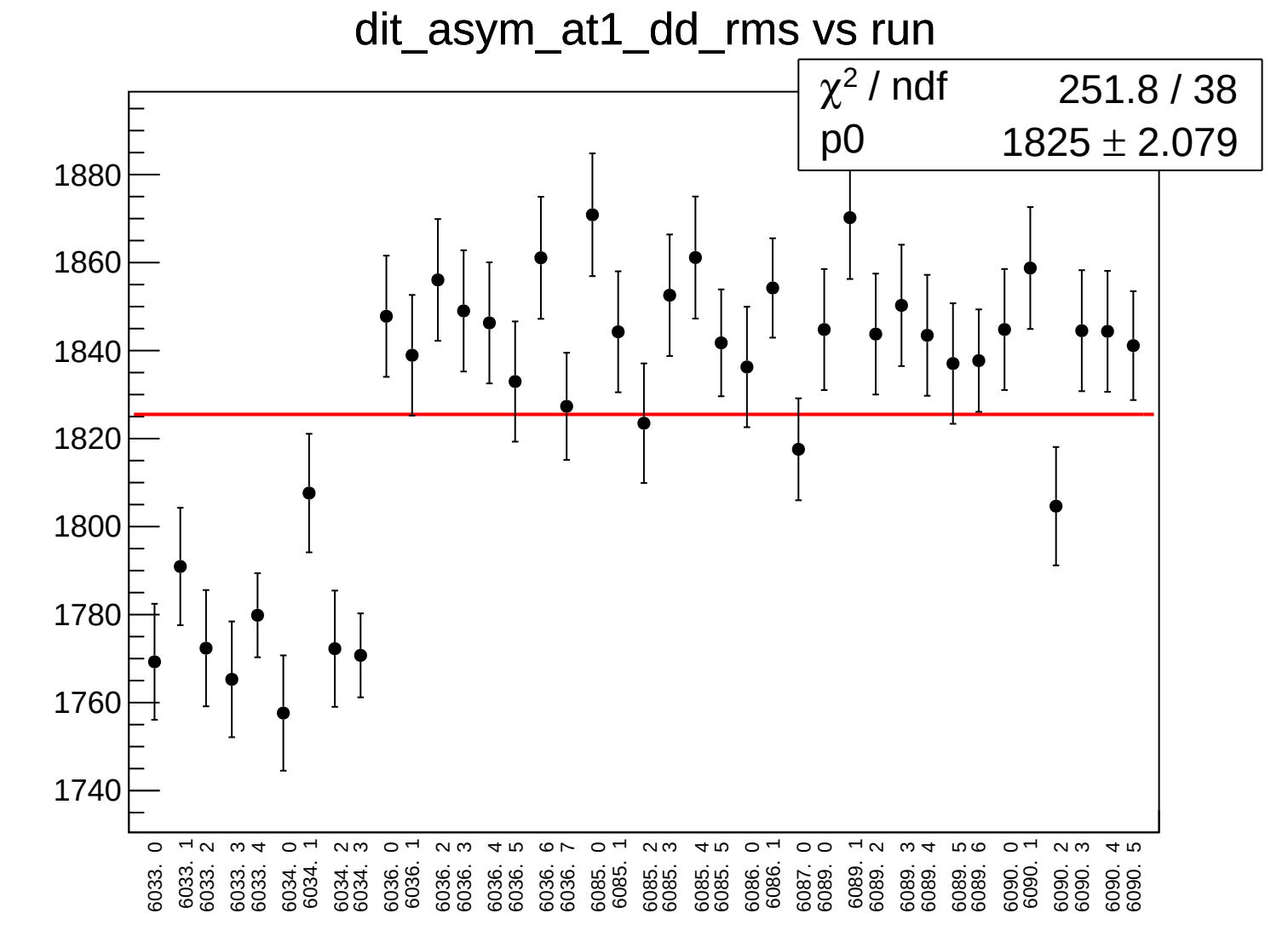

dit_asym_at1_avg_rms vs run
χ² / ndf 201.1 / 38
p0 1835 ± 2.089
1900
1880
1860
1840
1820
1800
1780
1760
1740
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

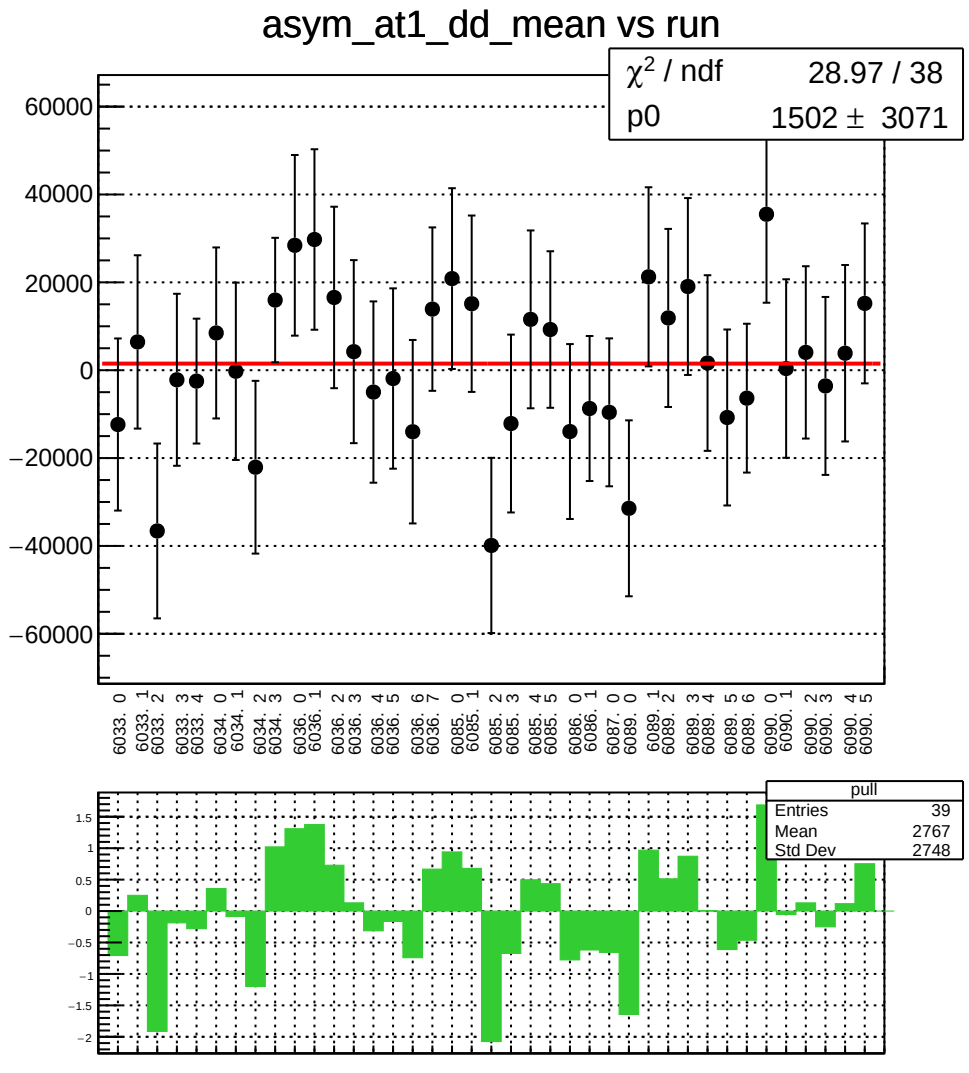

asym_at1_avg_mean vs run
χ² / ndf 23.17 / 38
p0 −4305 ± 3030
60000
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

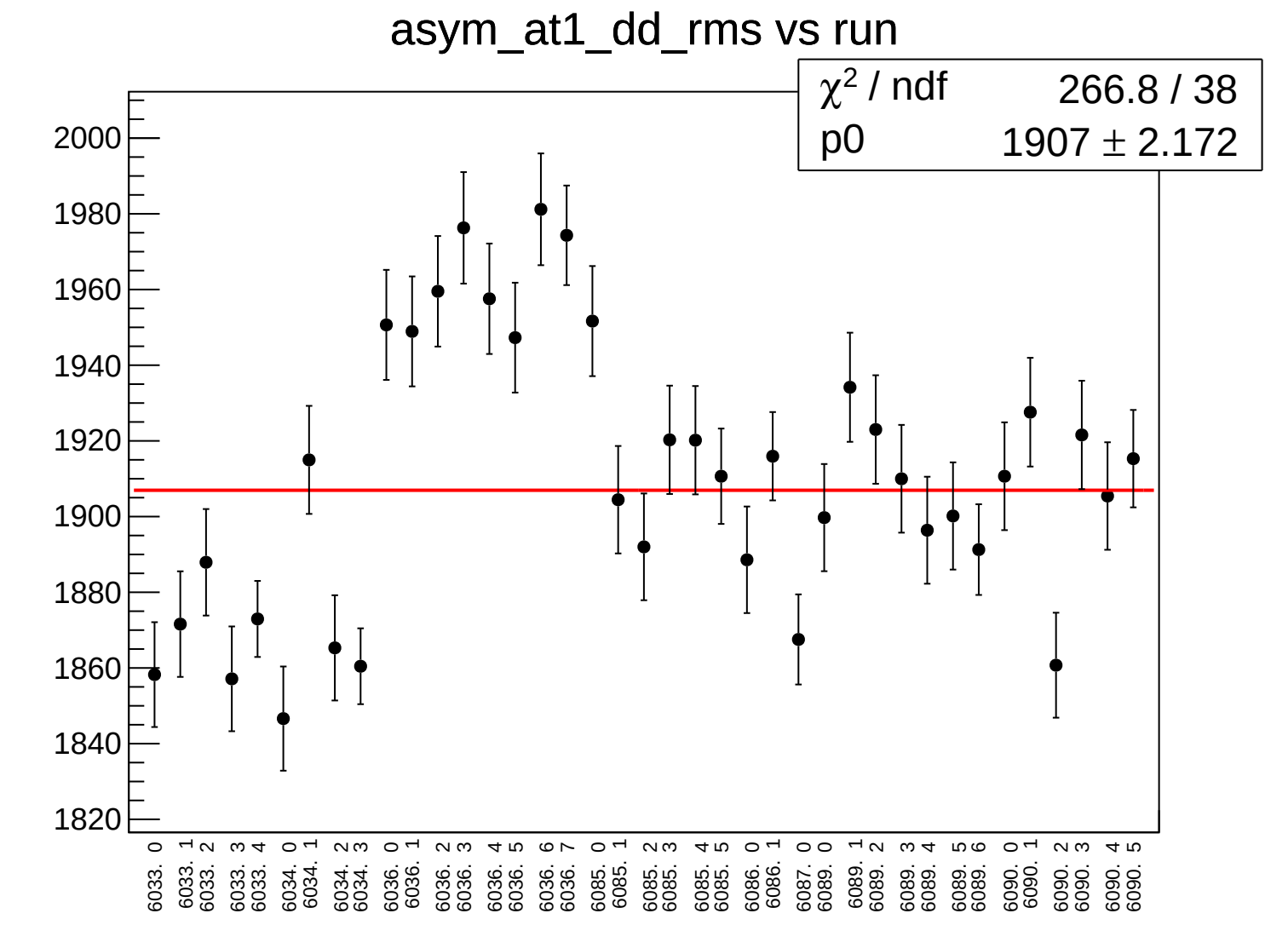

pull1D
Entries 39
Mean 0.02383
Std Dev 0.7703
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

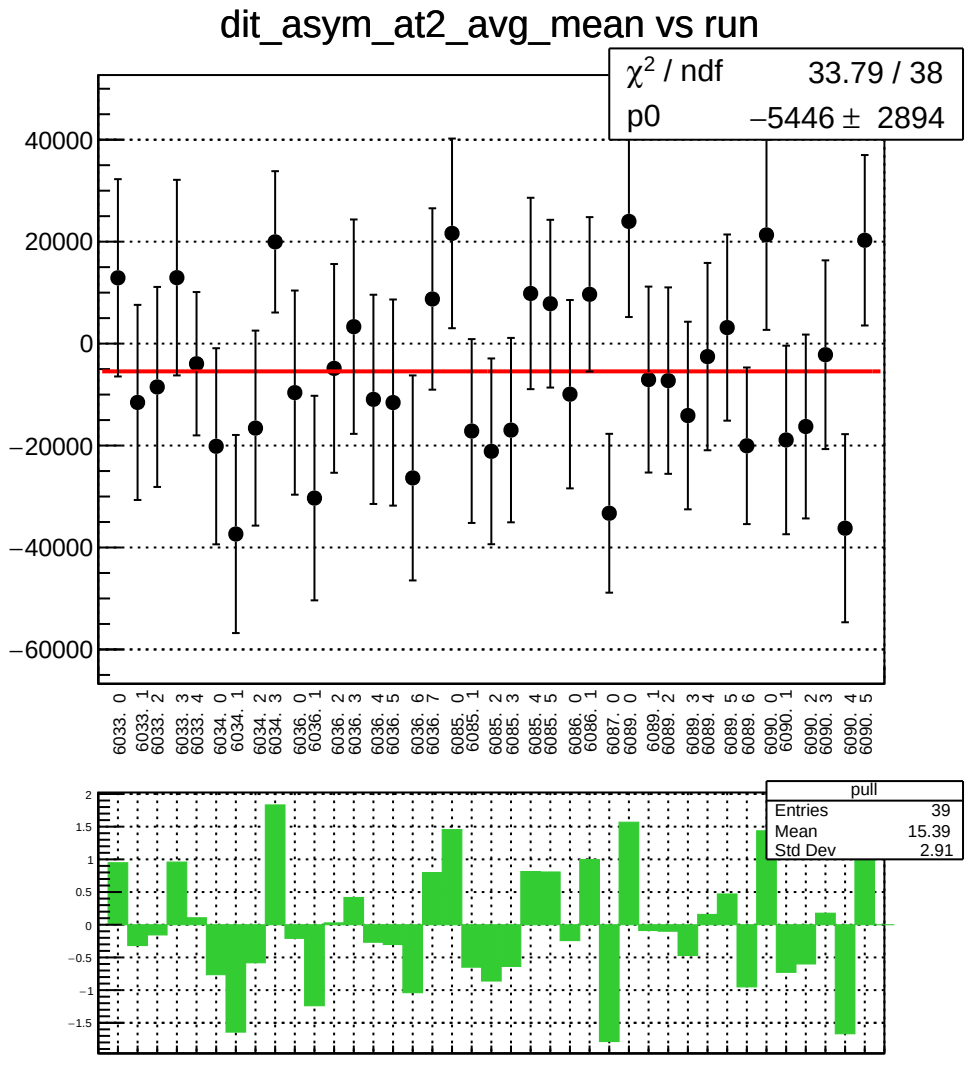

asym_at1_avg_rms vs run
χ² / ndf 313.5 / 38
p0 1882 ± 2.143
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0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

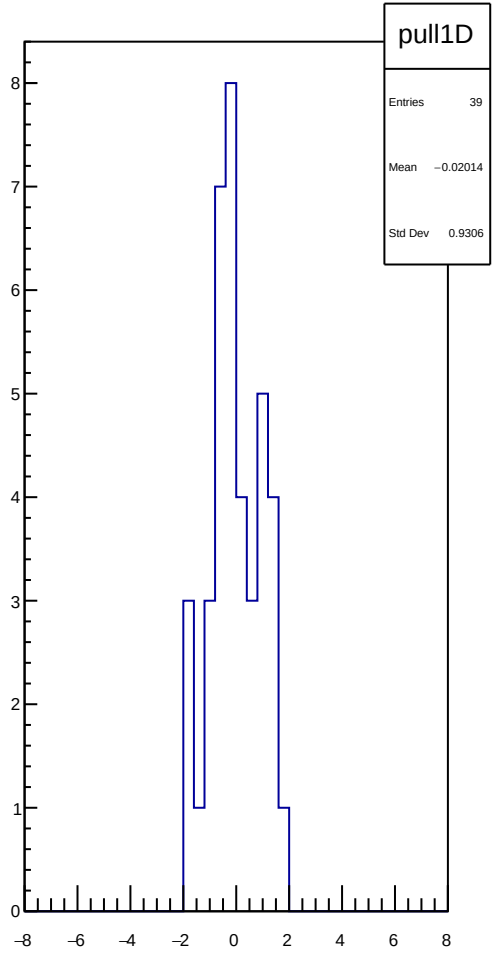

dit_asym_at1_dd_mean vs run
χ² / ndf 29.16 / 38
p0 934.7 ± 2940
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 456.9
Std Dev 440.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.002402
Std Dev 0.8647
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

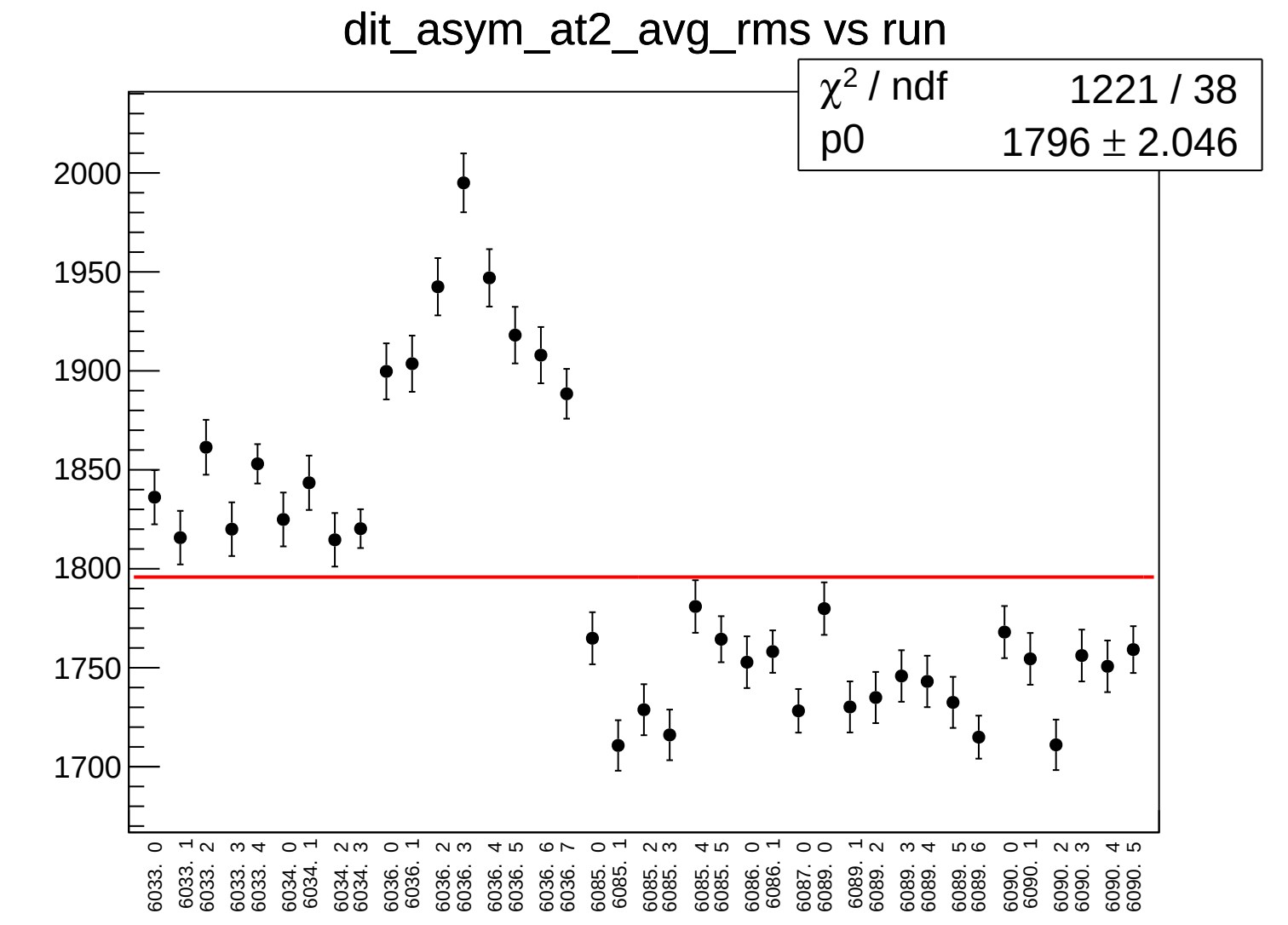

dit_asym_at1_dd_rms vs run
χ² / ndf 251.8 / 38
p0 1825 ± 2.079
1880
1860
1840
1820
1800
1780
1760
1740
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

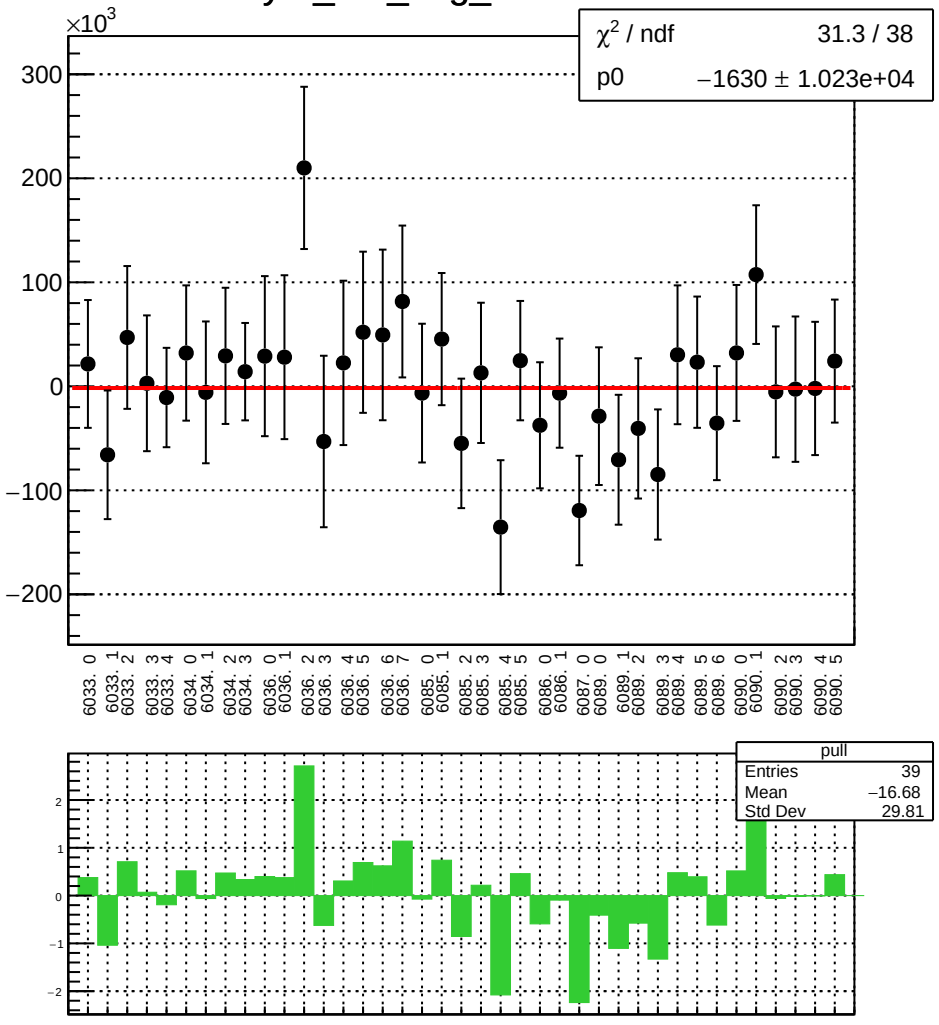

asym_at1_dd_mean vs run
χ² / ndf 28.97 / 38
p0 1502 ± 3071
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

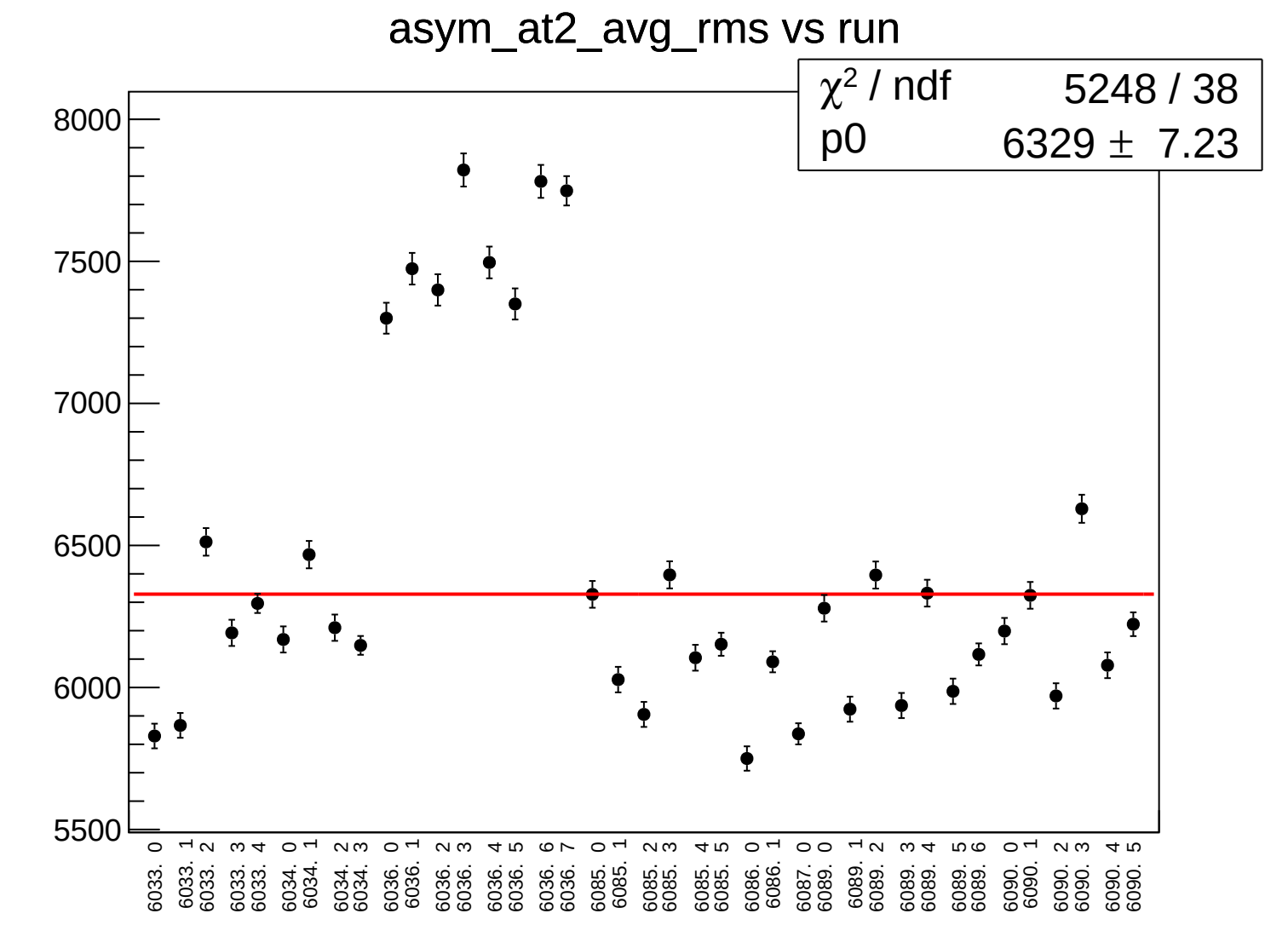

asym_at1_dd_rms vs run
χ² / ndf 266.8 / 38
p0 1907 ± 2.172
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0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

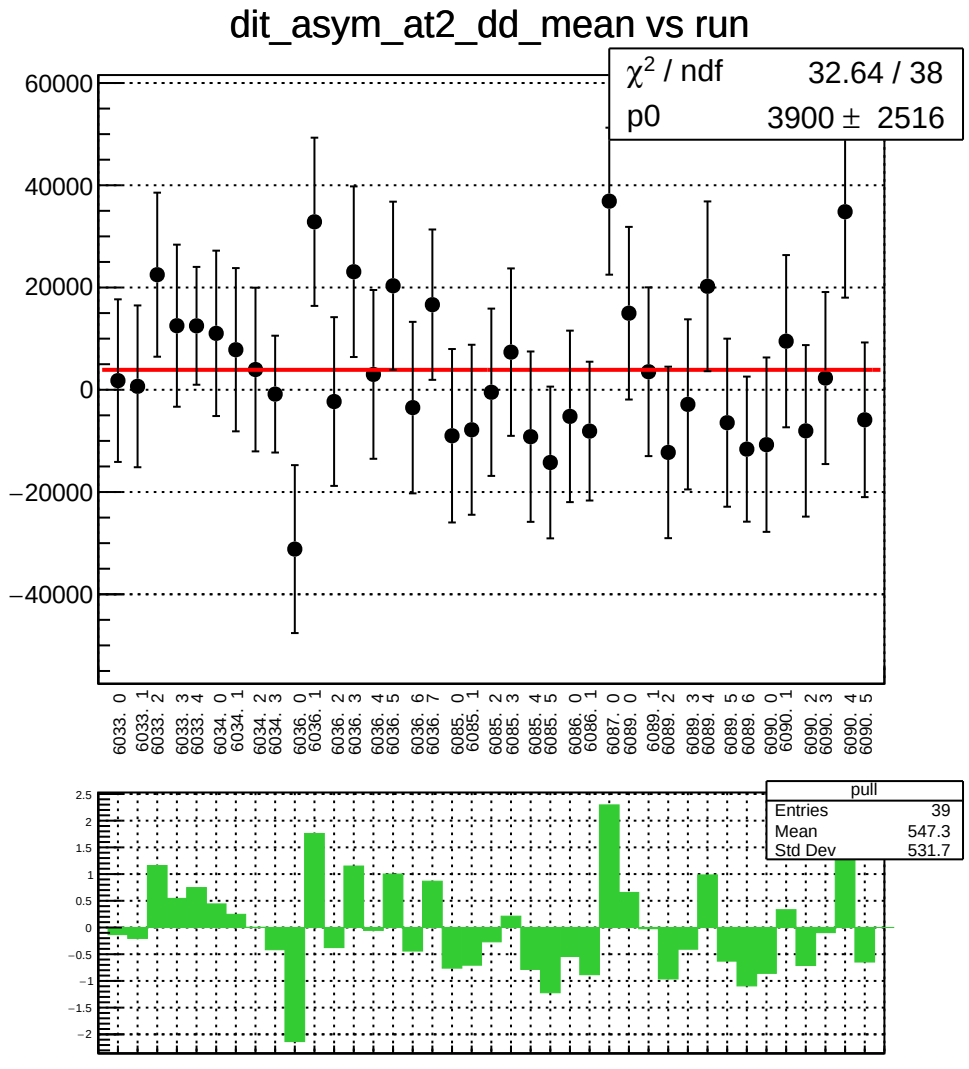

dit_asym_at2_avg_mean vs run
χ² / ndf 33.79 / 38
p0 −5446 ± 2894
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 15.39
Std Dev 2.91
2
1.5
1
0.5
0
−0.5
−1
−1.5

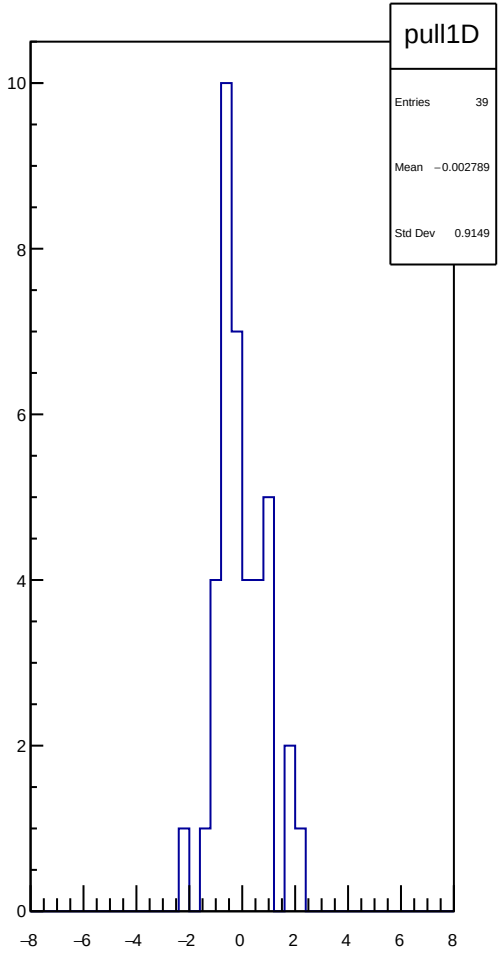

pull1D
Entries 39
Mean −0.02014
Std Dev 0.9306
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

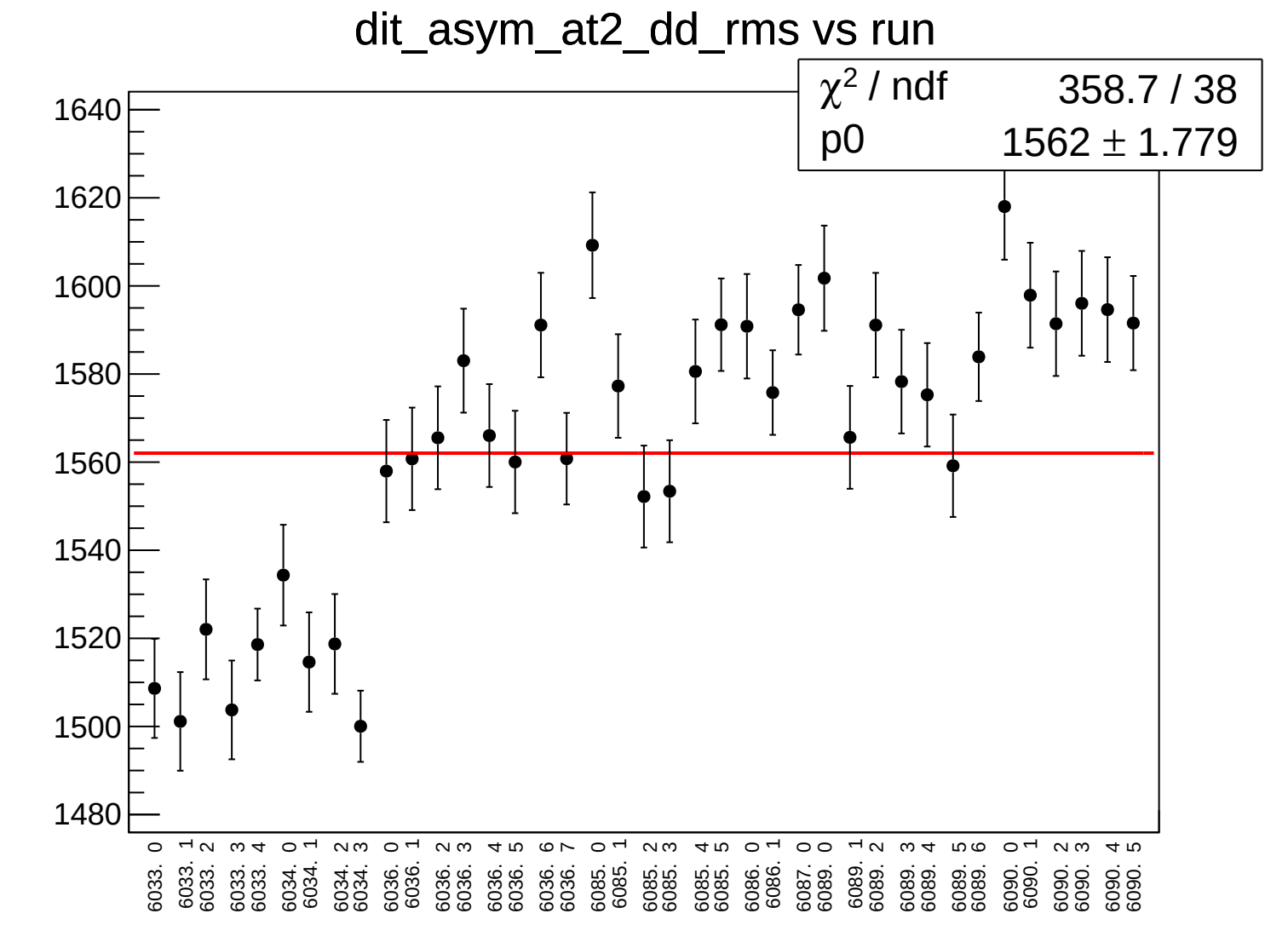

dit_asym_at2_avg_rms vs run
χ² / ndf 1221 / 38
p0 1796 ± 2.046
2000
1950
1900
1850
1800
1750
1700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

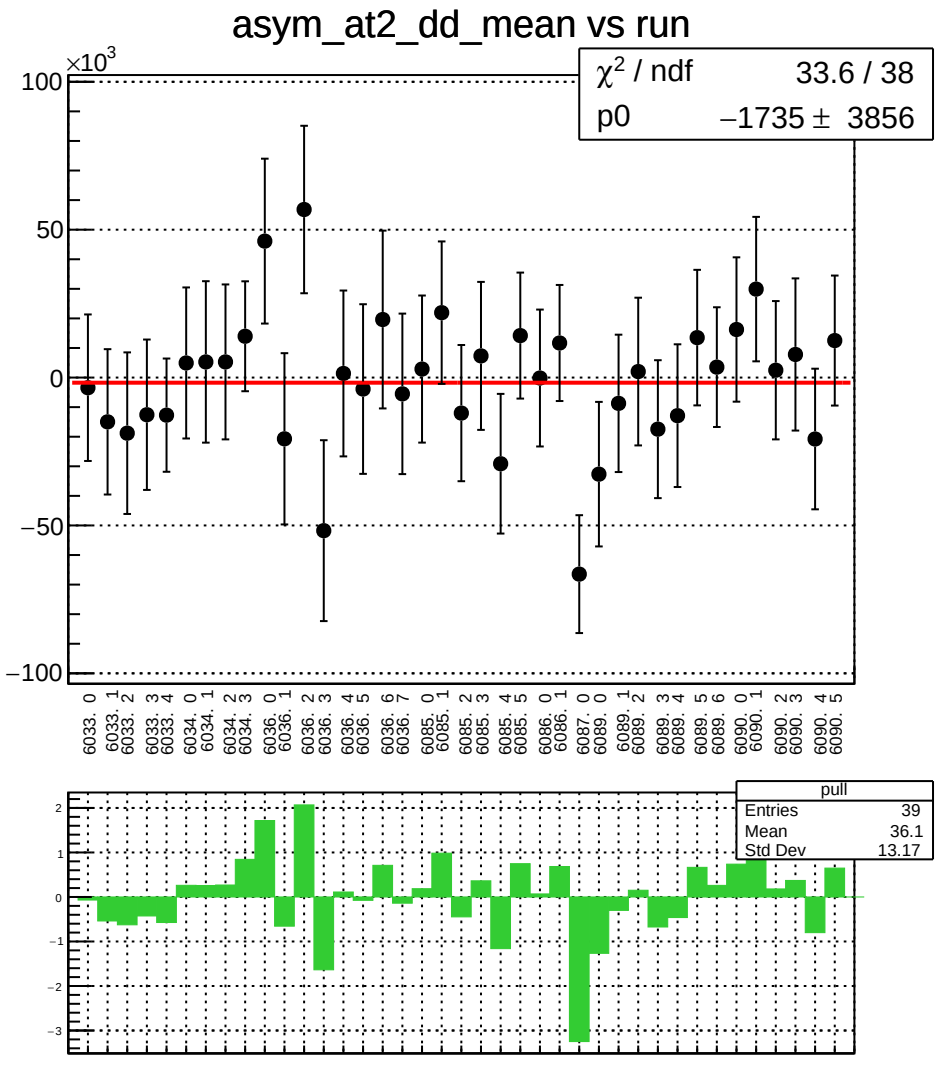

asym_at2_avg_mean vs run
×10^3
χ² / ndf 31.3 / 38
p0 −1630 ± 1.023e+04
300
200
100
0
−100
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

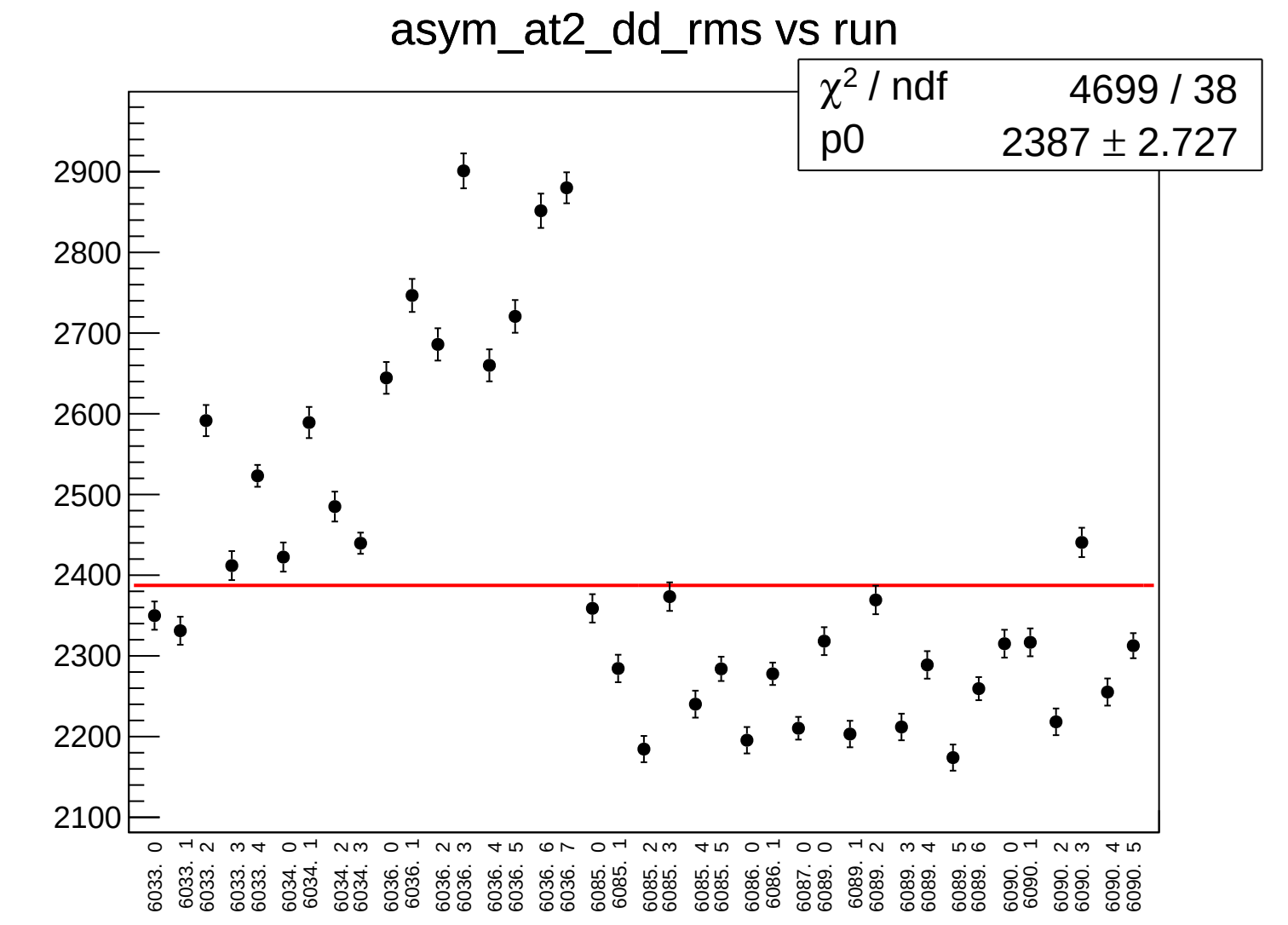

asym_at2_avg_rms vs run
χ² / ndf 5248 / 38
p0 6329 ± 7.23
8000
7500
7000
6500
6000
5500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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

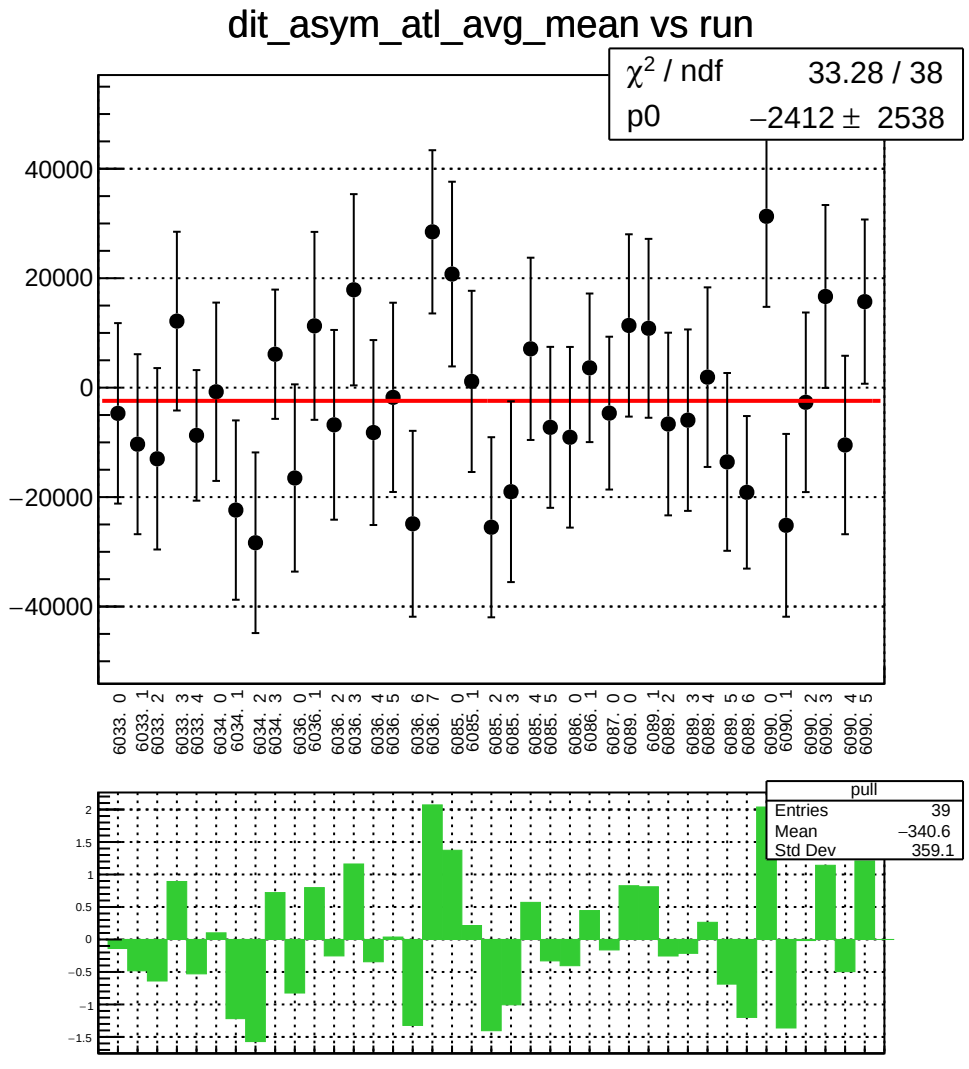

dit_asym_at2_dd_mean vs run
χ² / ndf 32.64 / 38
p0 3900 ± 2516
60000
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 547.3
Std Dev 531.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

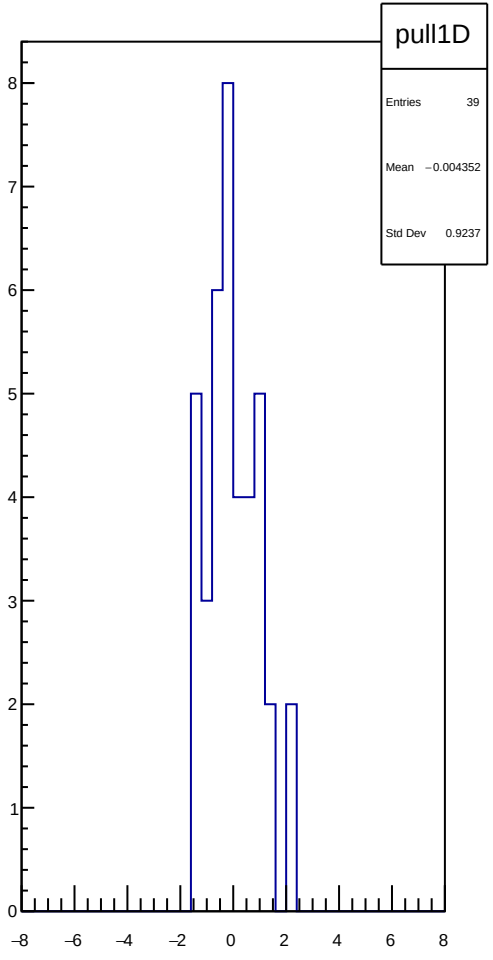

pull1D
Entries 39
Mean −0.002789
Std Dev 0.9149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

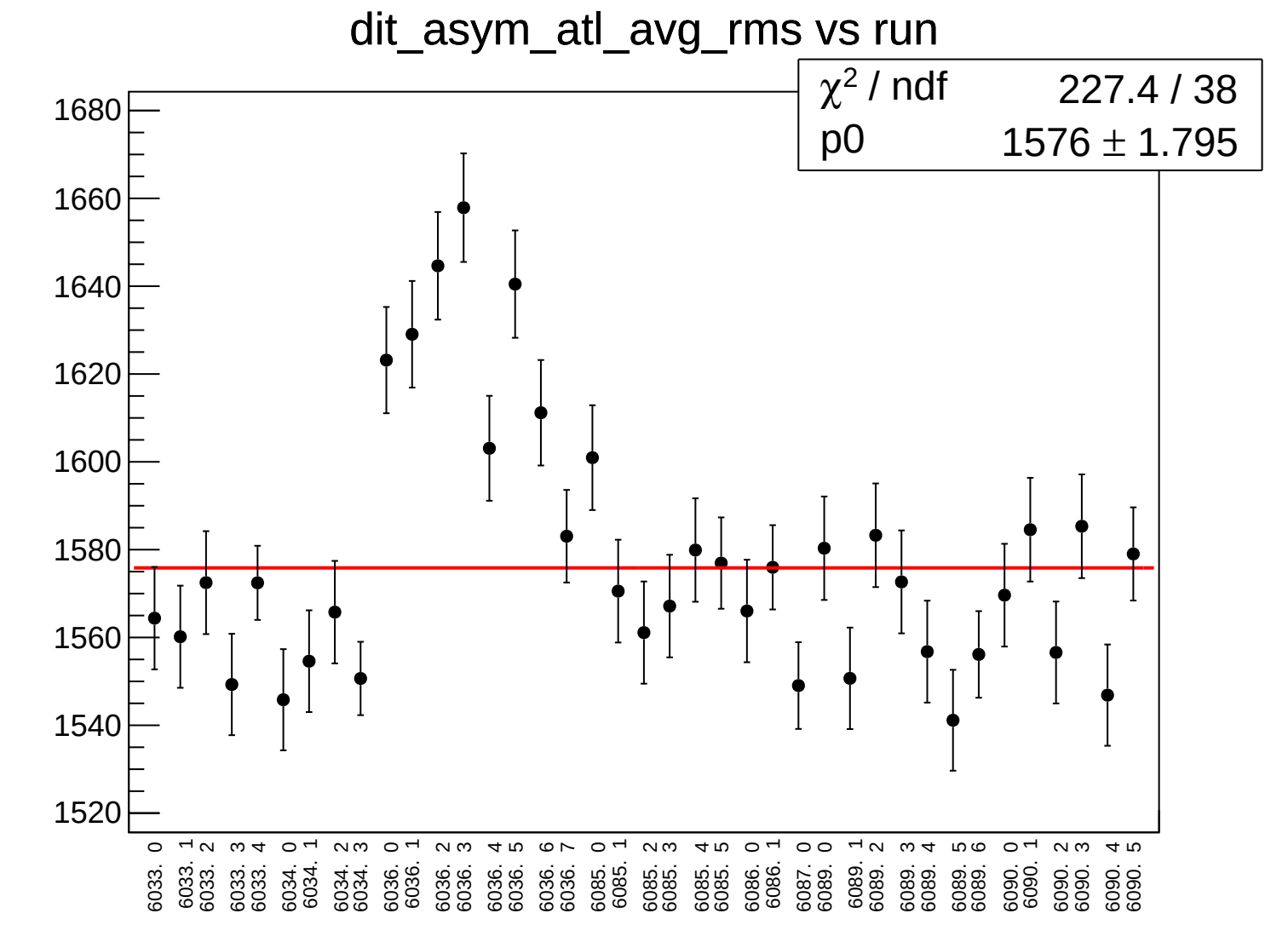

dit_asym_at2_dd_rms vs run
χ² / ndf 358.7 / 38
p0 1562 ± 1.779
1640
1620
1600
1580
1560
1540
1520
1500
1480
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

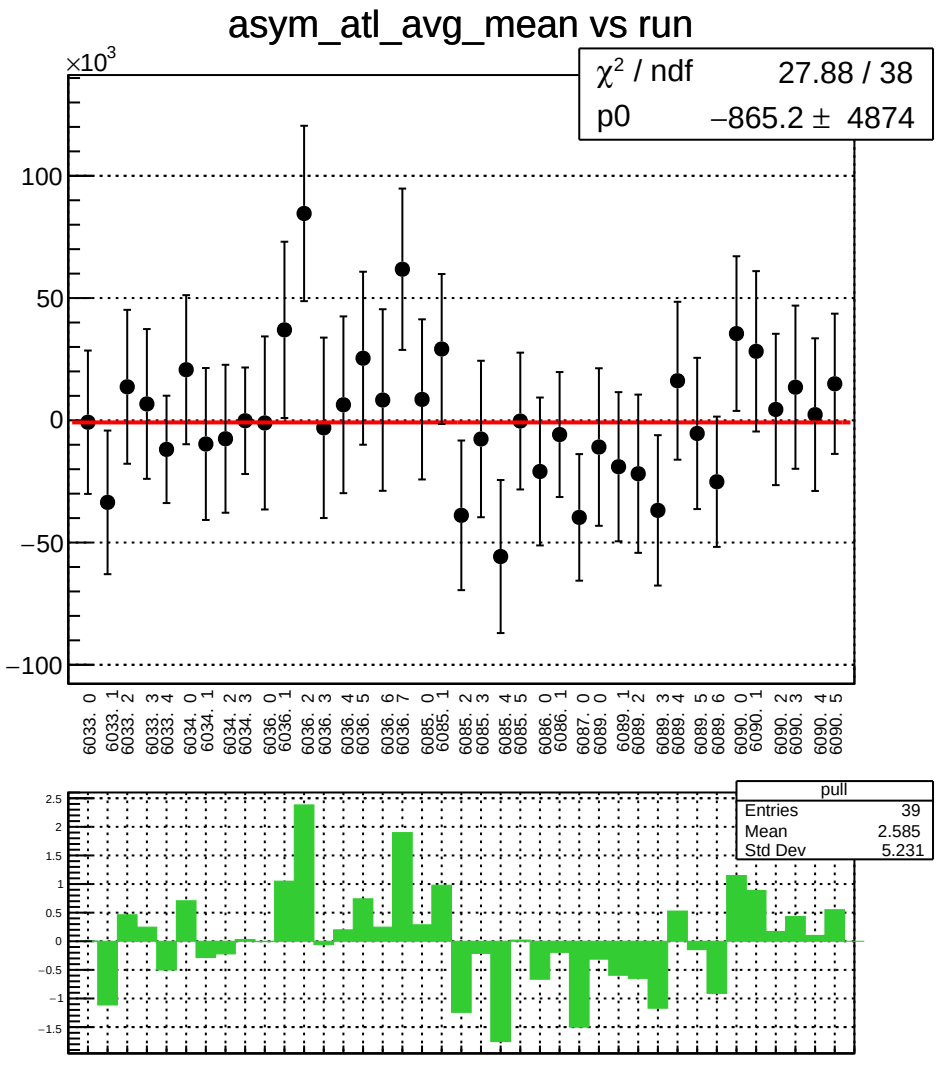

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 33.6 / 38
p0 −1735 ± 3856
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089.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

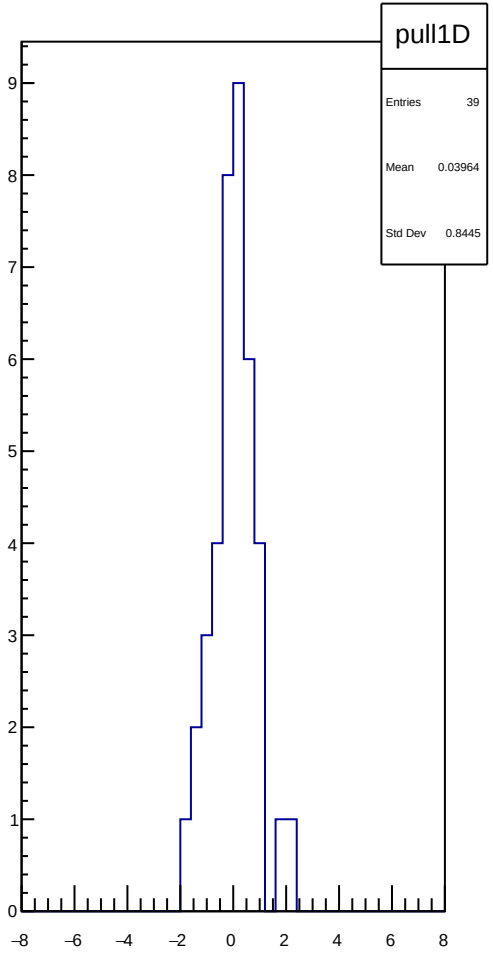

asym_at2_dd_rms vs run
χ² / ndf 4699 / 38
p0 2387 ± 2.727
2900
2800
2700
2600
2500
2400
2300
2200
2100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

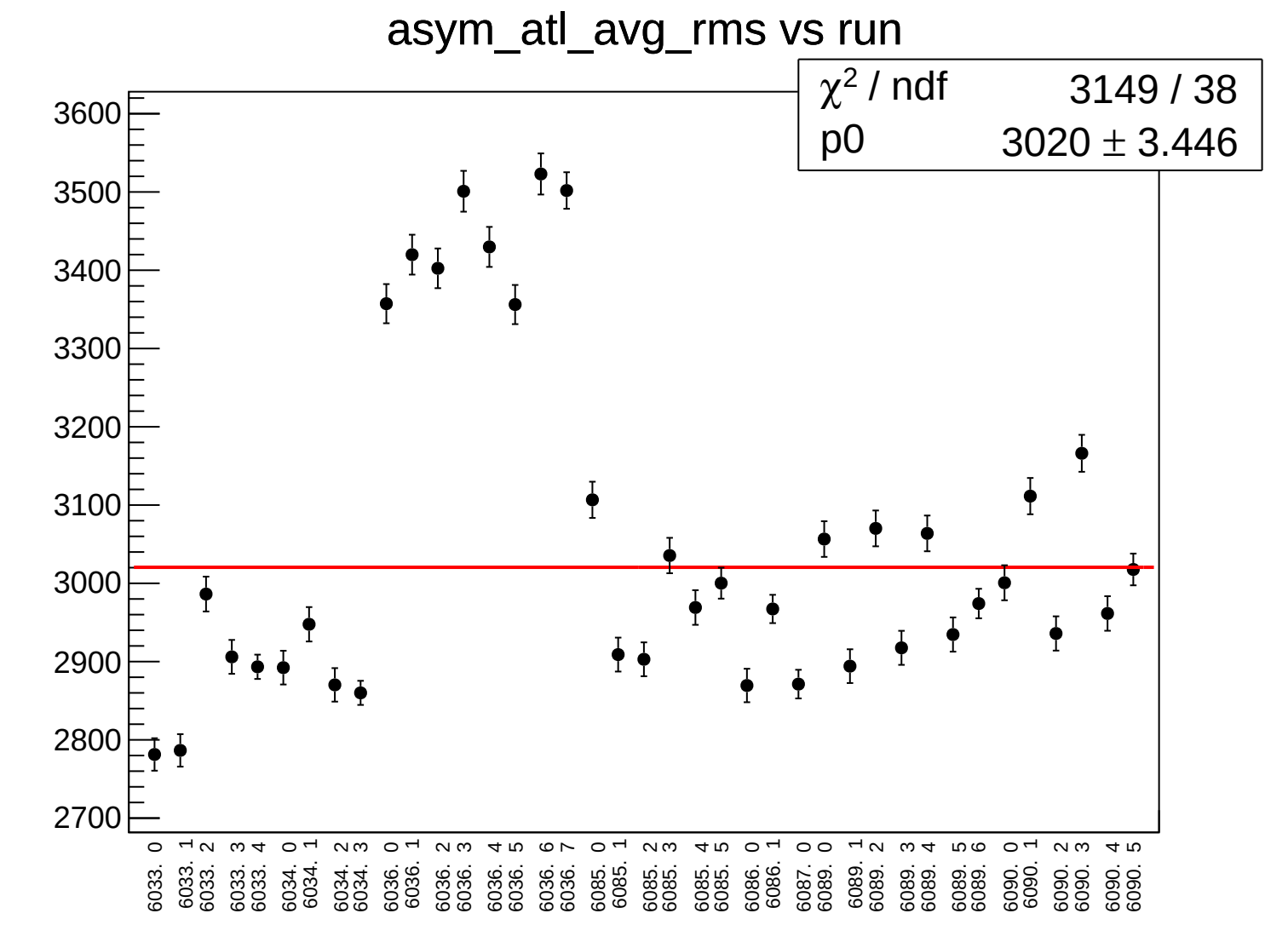

dit_asym_atl_avg_mean vs run
χ² / ndf 33.28 / 38
p0 −2412 ± 2538
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −340.6
Std Dev 359.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

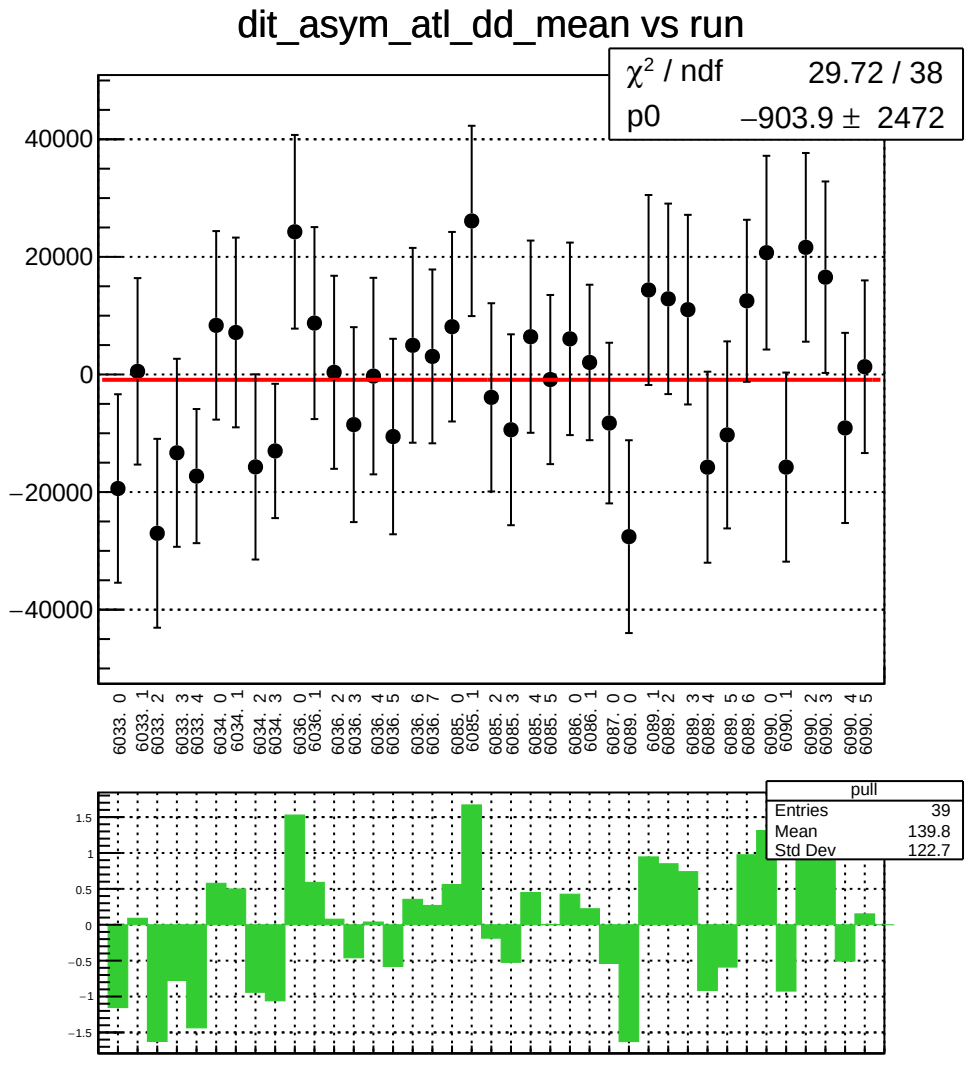

pull1D
Entries 39
Mean −0.004352
Std Dev 0.9237
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

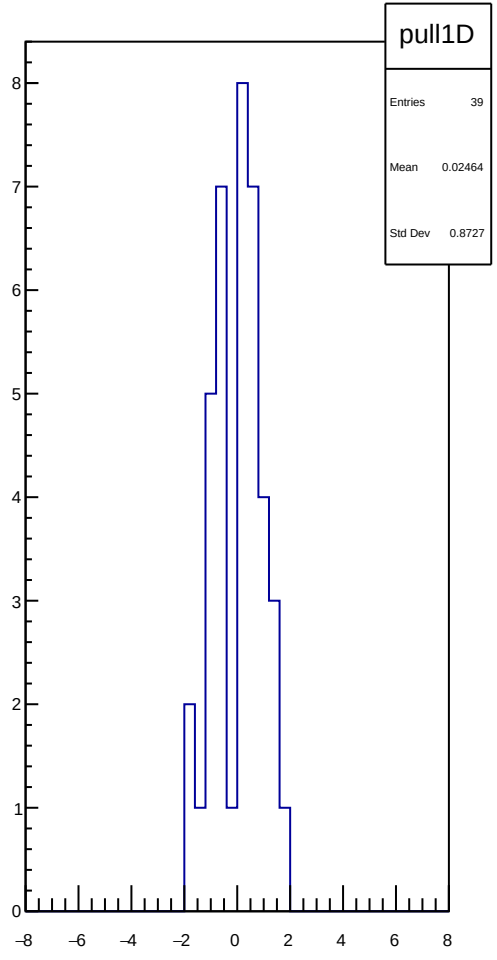

dit_asym_atl_avg_rms vs run
χ² / ndf 227.4 / 38
p0 1576 ± 1.795
1680
1660
1640
1620
1600
1580
1560
1540
1520
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

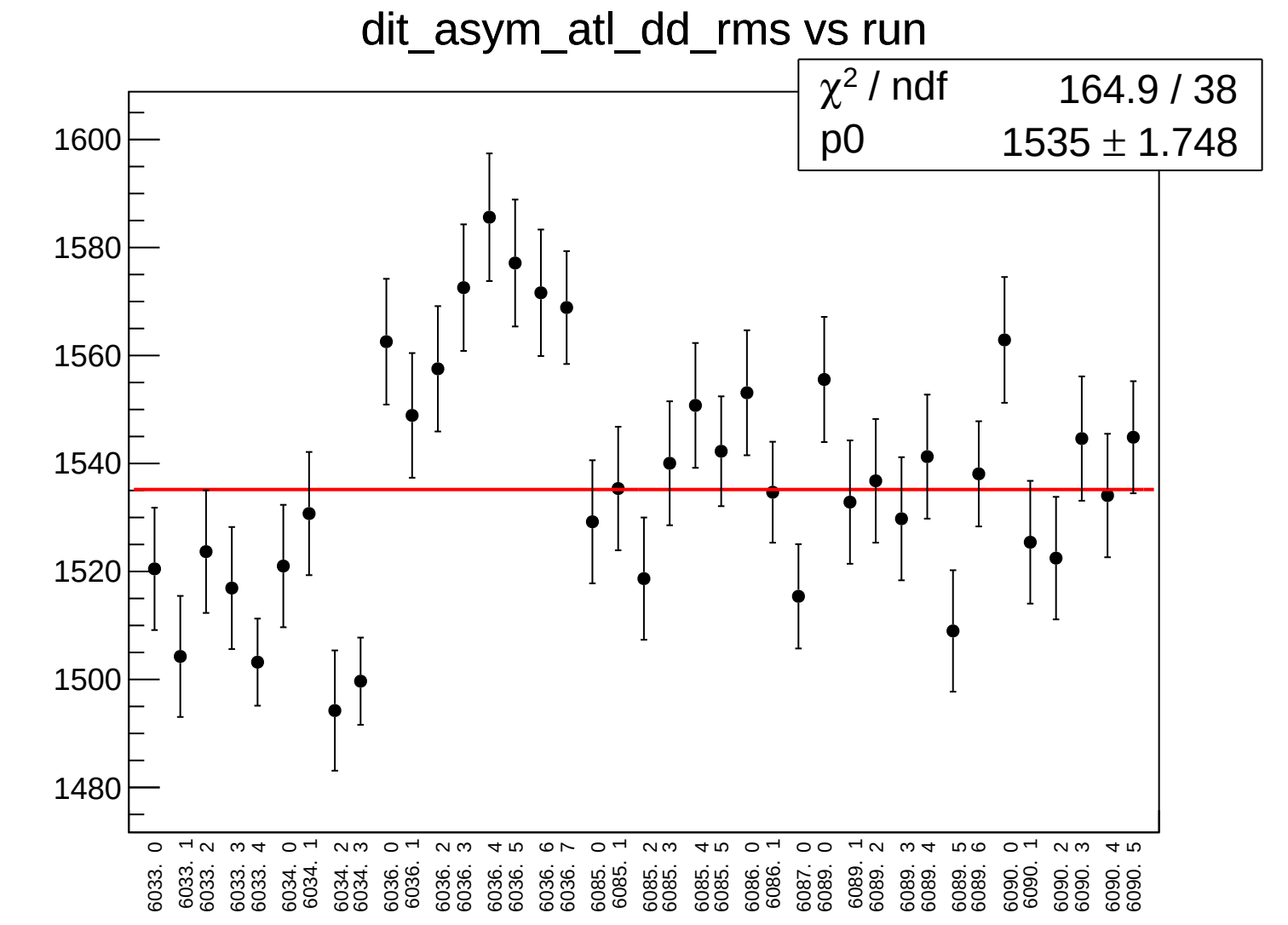

asym_atl_avg_mean vs run
×10^3
χ² / ndf 27.88 / 38
p0 −865.2 ± 4874
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0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

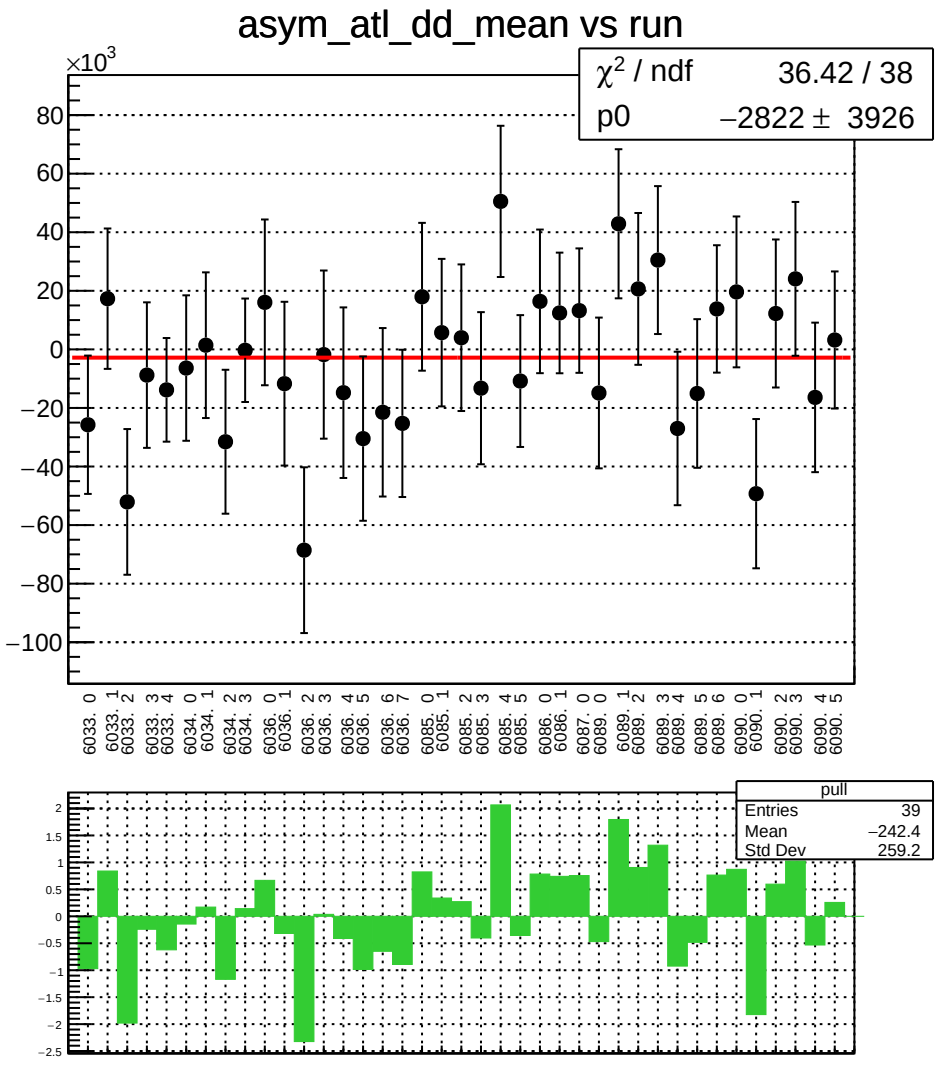

pull1D
Entries 39
Mean 0.03964
Std Dev 0.8445
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

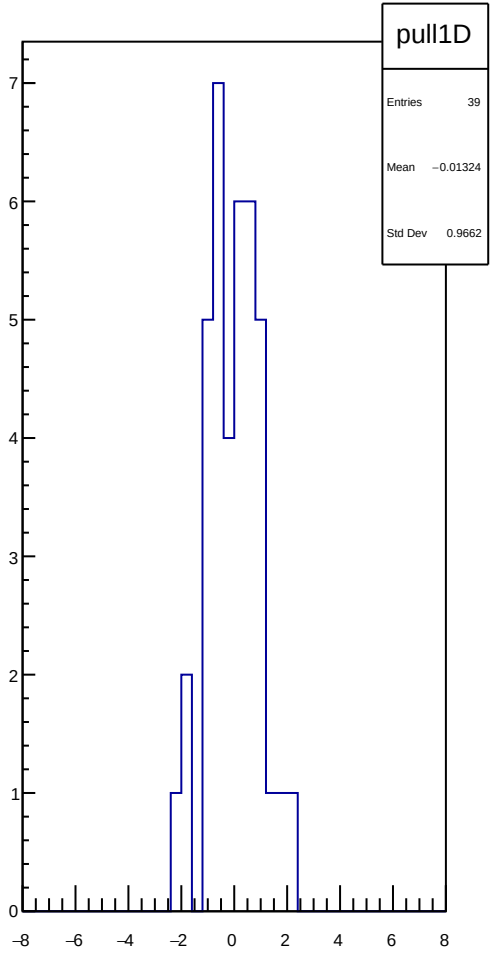

asym_atl_avg_rms vs run
χ² / ndf 3149 / 38
p0 3020 ± 3.446
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0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

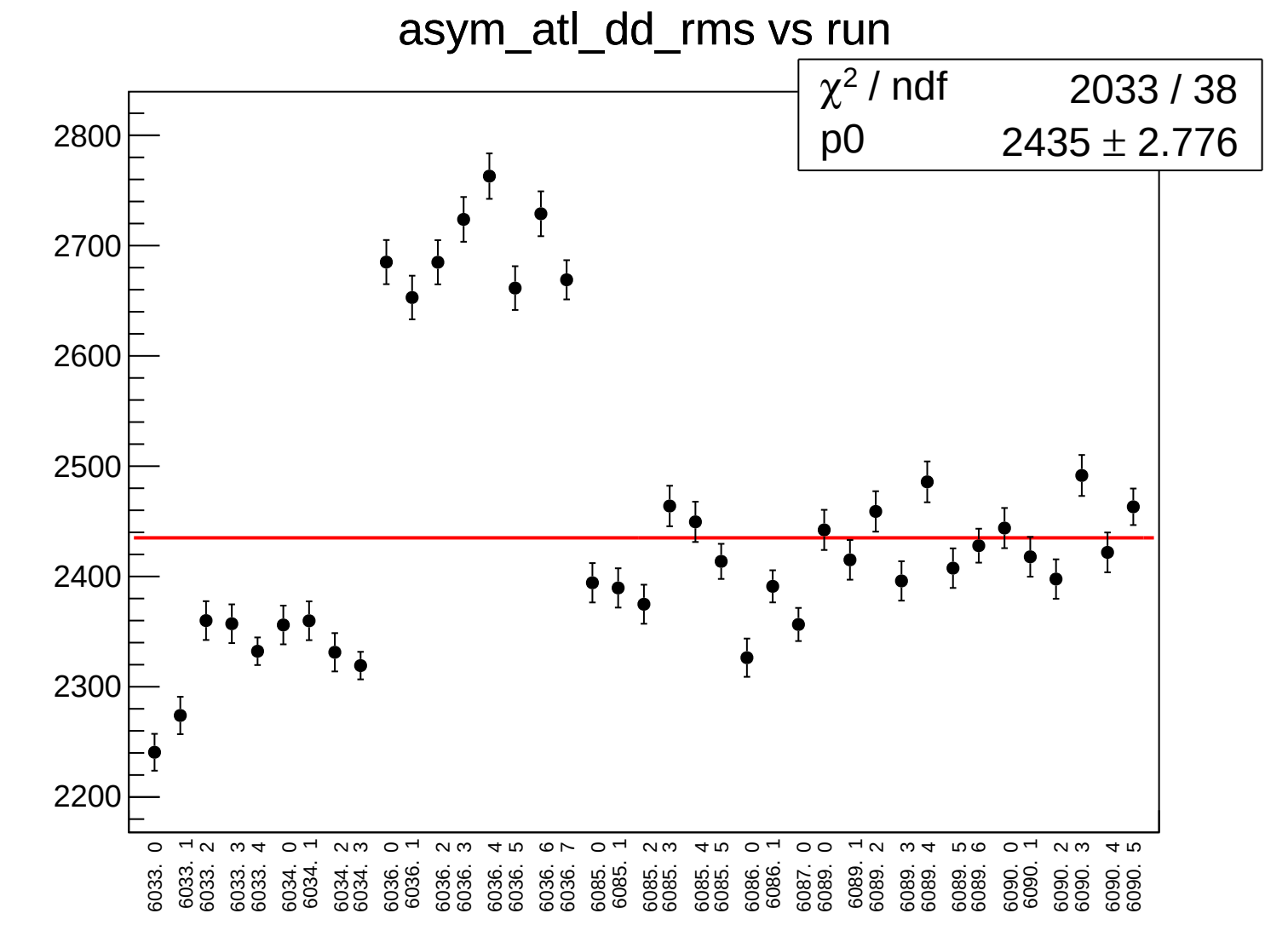

dit_asym_atl_dd_mean vs run
χ² / ndf 29.72 / 38
p0 −903.9 ± 2472
40000
20000
0
−20000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 139.8
Std Dev 122.7
1.5
1
0.5
0
−0.5
−1
−1.5

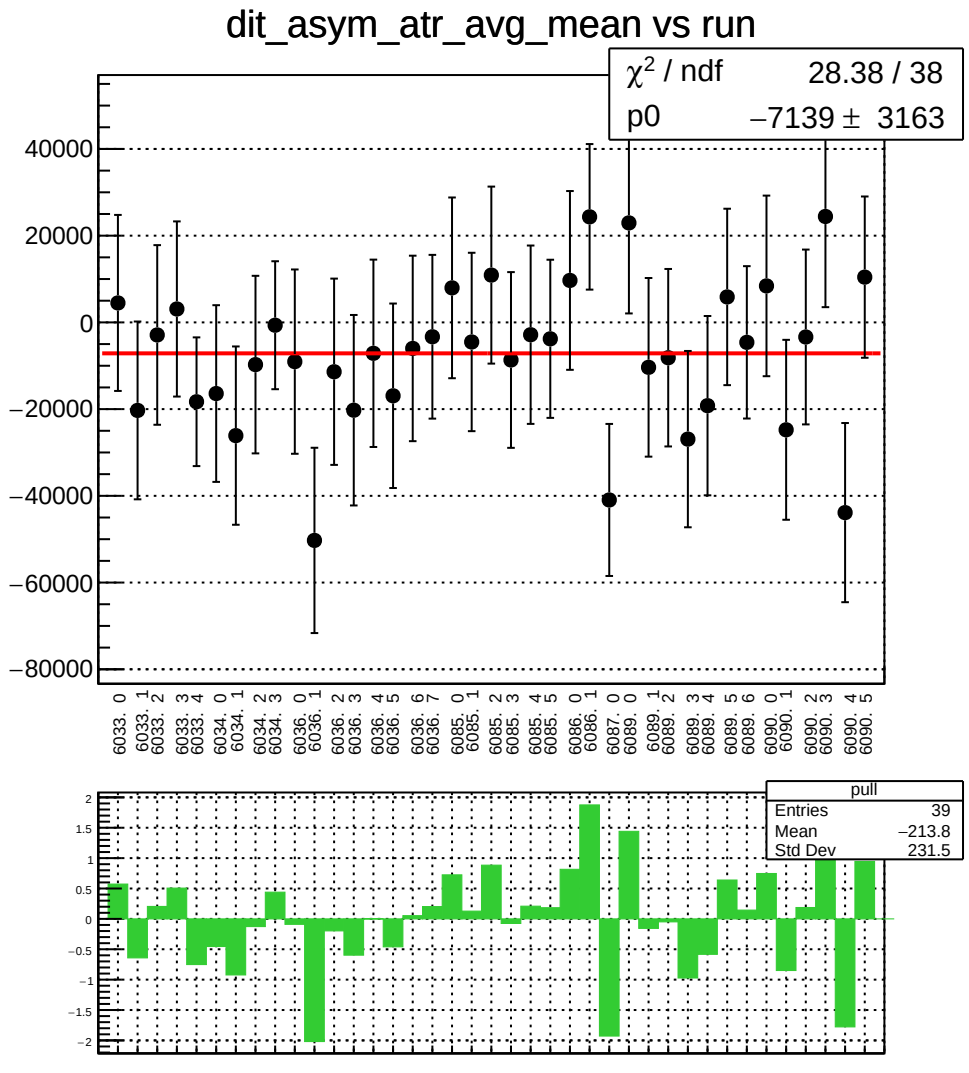

pull1D
Entries 39
Mean 0.02464
Std Dev 0.8727
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

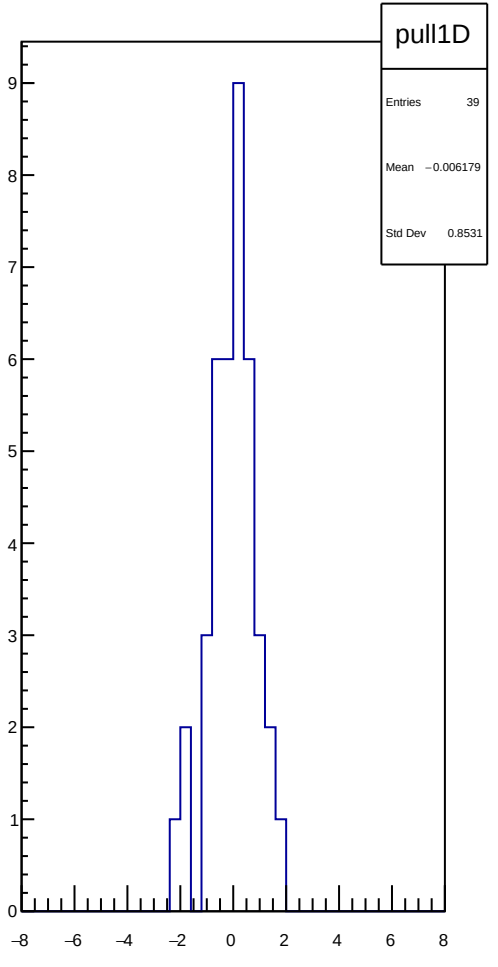

dit_asym_atl_dd_rms vs run
χ² / ndf 164.9 / 38
p0 1535 ± 1.748
1600
1580
1560
1540
1520
1500
1480
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

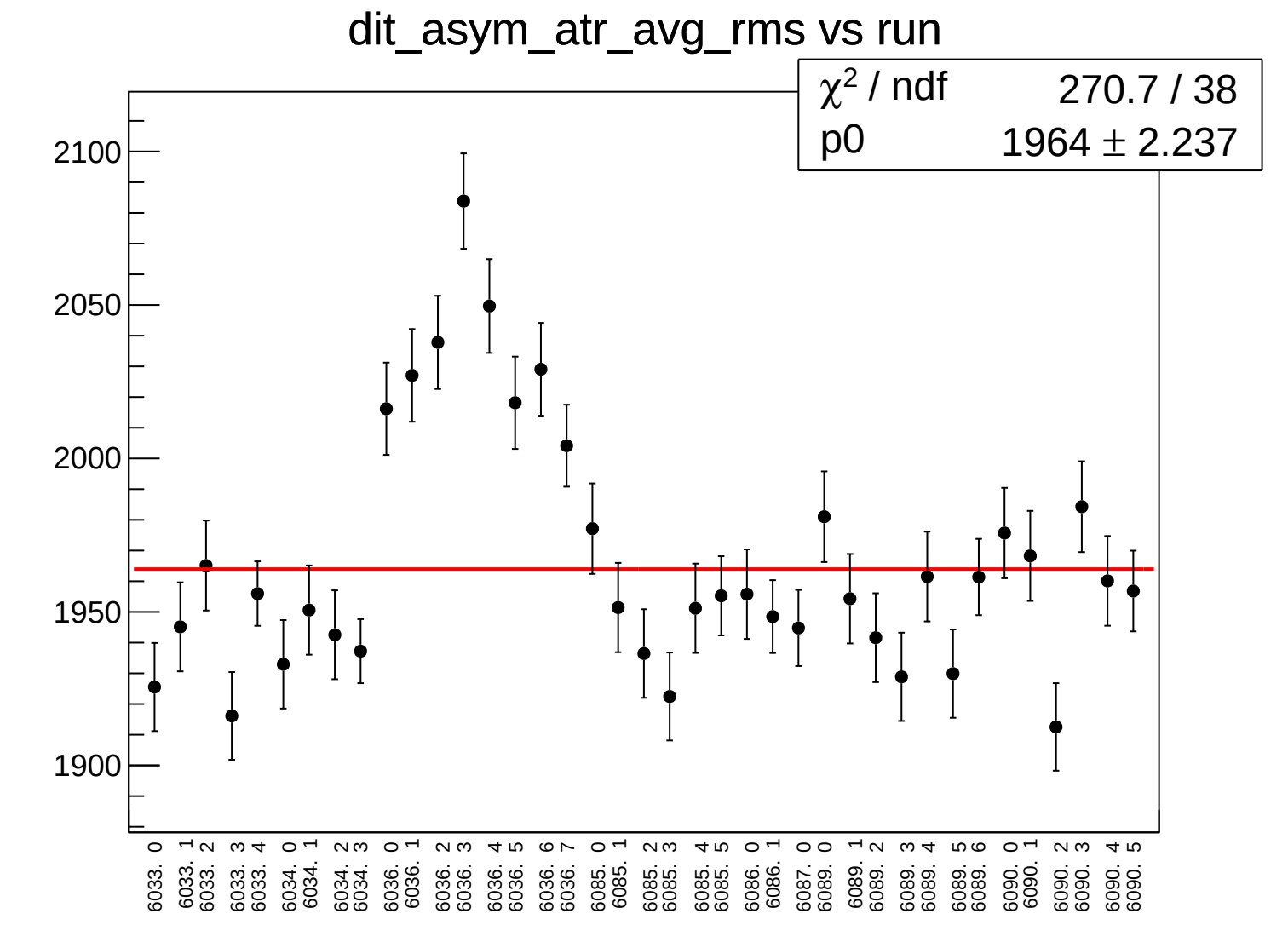

asym_atl_dd_mean vs run
×10^3
χ² / ndf 36.42 / 38
p0 −2822 ± 3926
pull
Entries 39
Mean −242.4
Std Dev 259.2

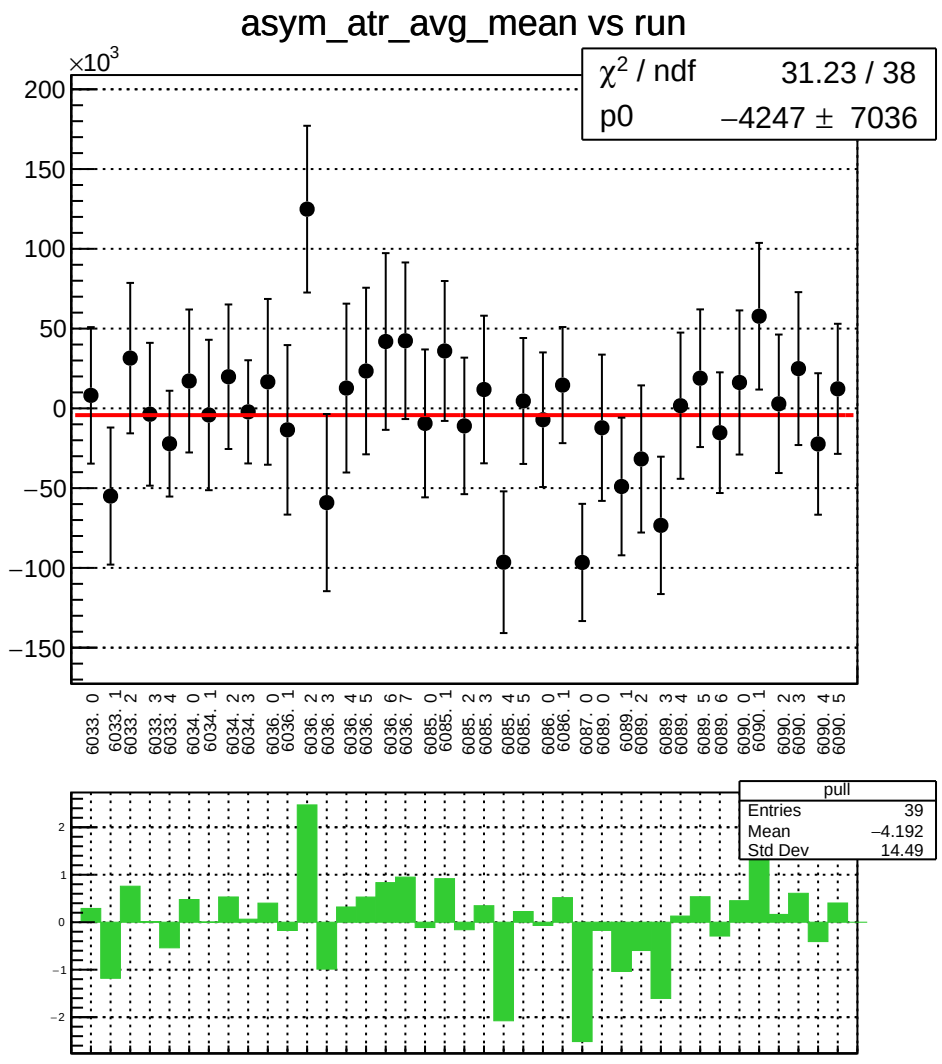

pull1D
Entries 39
Mean −0.01324
Std Dev 0.9662

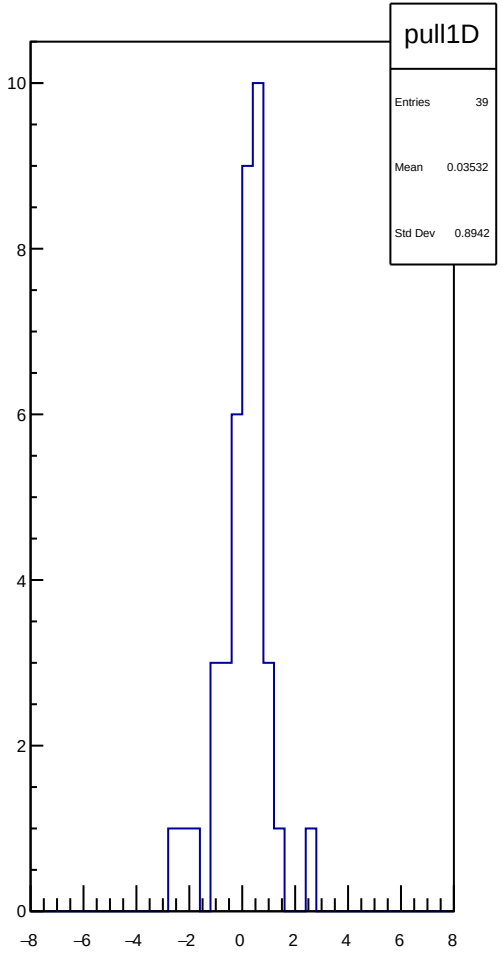

asym_atl_dd_rms vs run
χ² / ndf 2033 / 38
p0 2435 ± 2.776
2800
2700
2600
2500
2400
2300
2200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

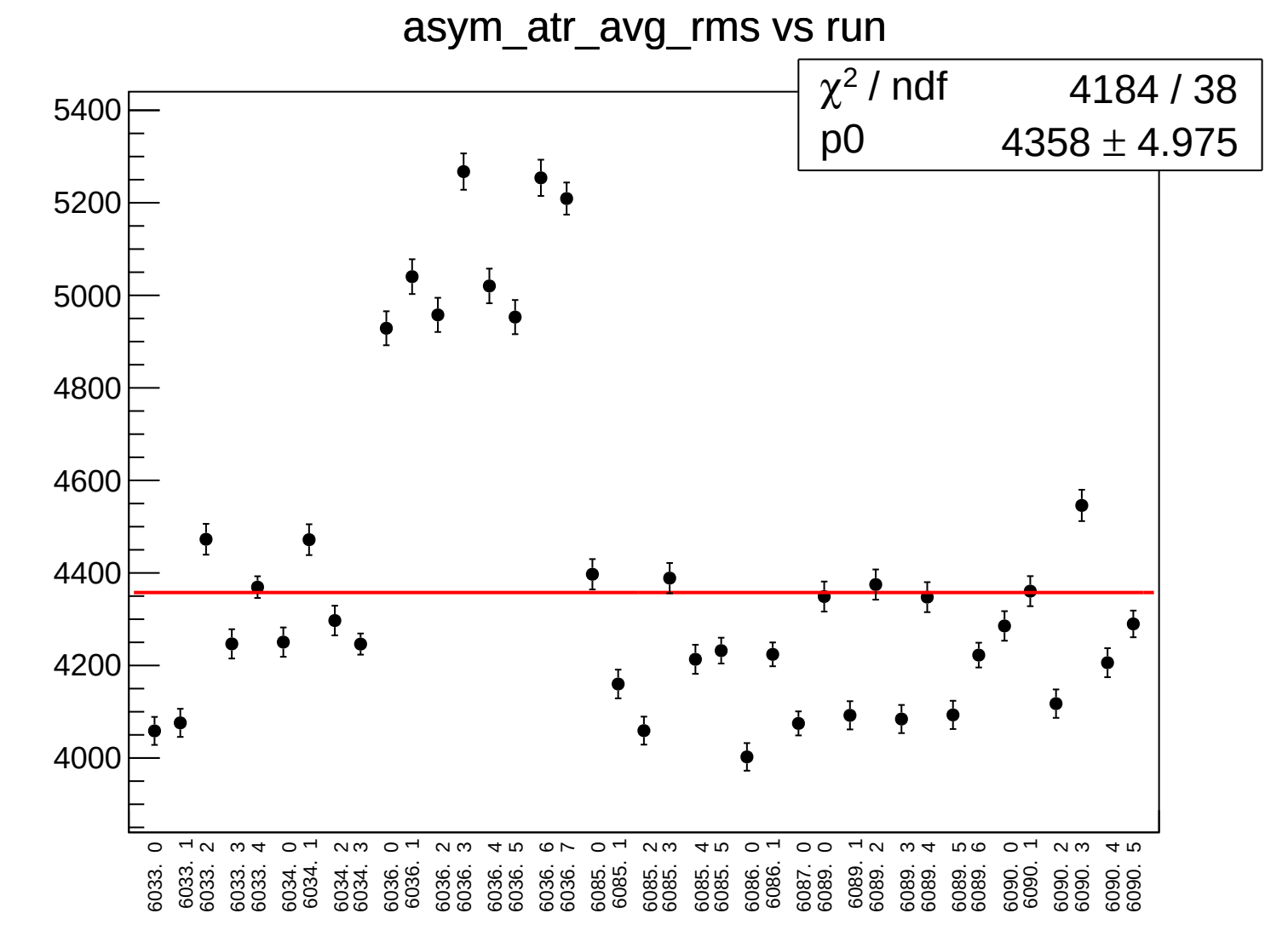

dit_asym_atr_avg_mean vs run
χ² / ndf 28.38 / 38
p0 −7139 ± 3163
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −213.8
Std Dev 231.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

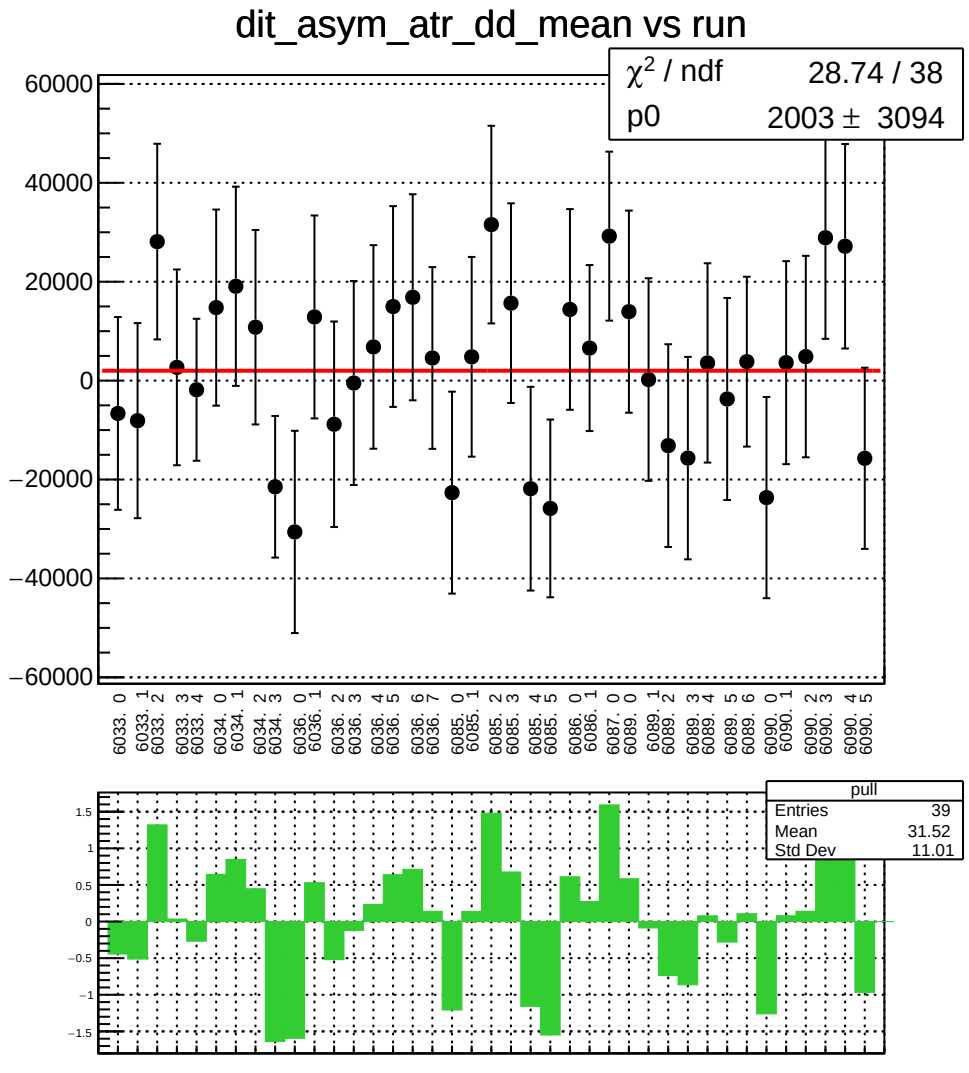

pull1D
Entries 39
Mean −0.006179
Std Dev 0.8531
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

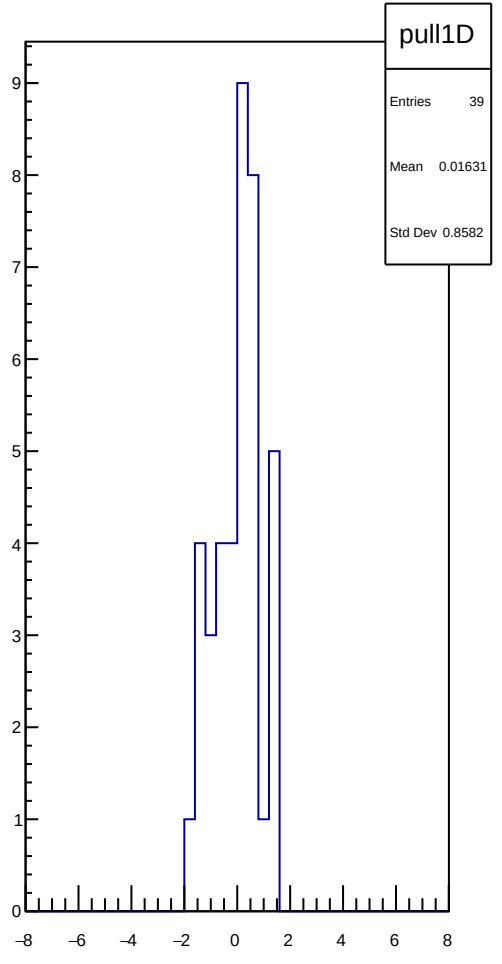

dit_asym_atr_avg_rms vs run
χ² / ndf 270.7 / 38
p0 1964 ± 2.237
2100
2050
2000
1950
1900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

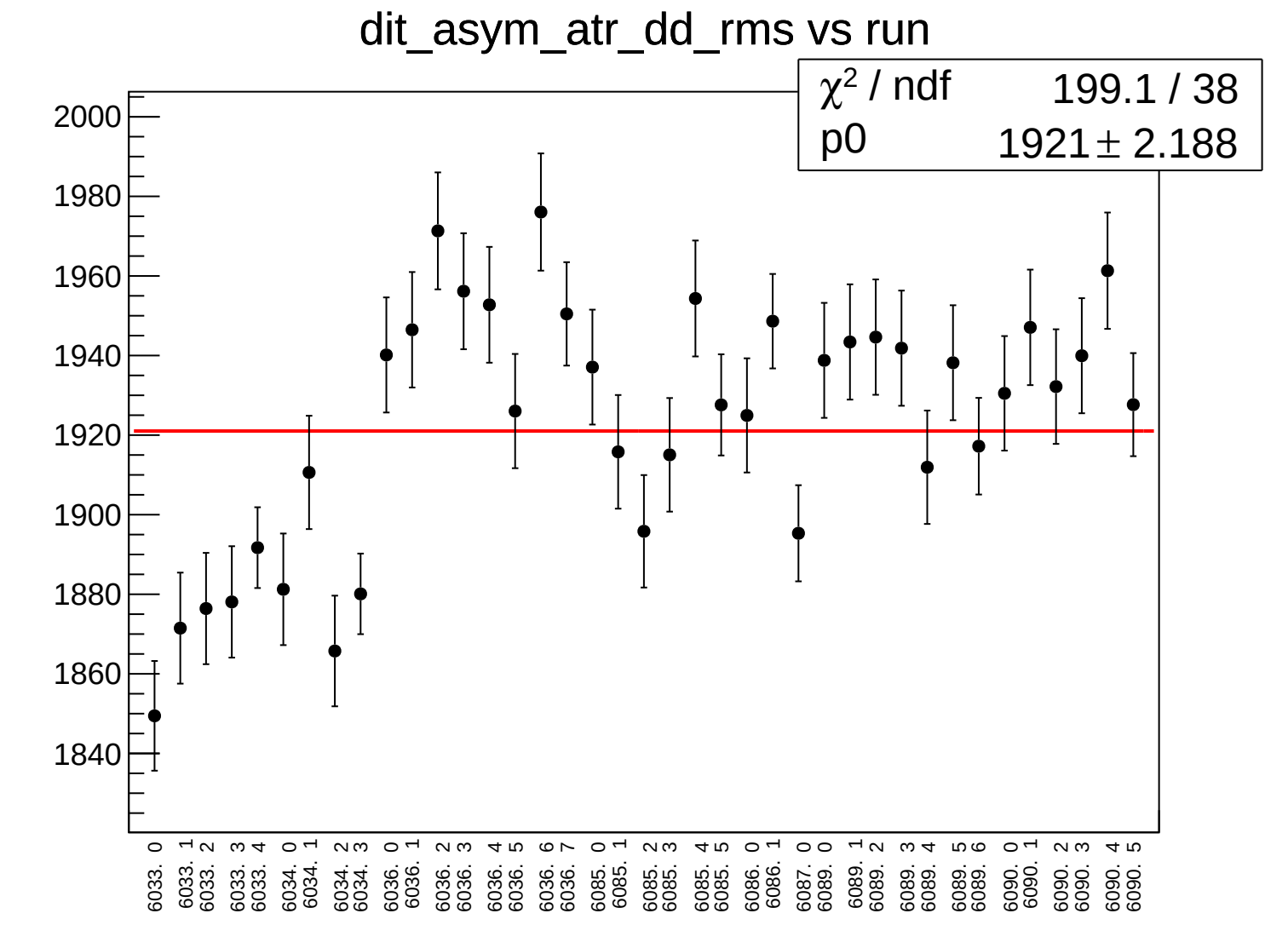

asym_atr_avg_mean vs run
×10^3
χ² / ndf 31.23 / 38
p0 −4247 ± 7036
200
150
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

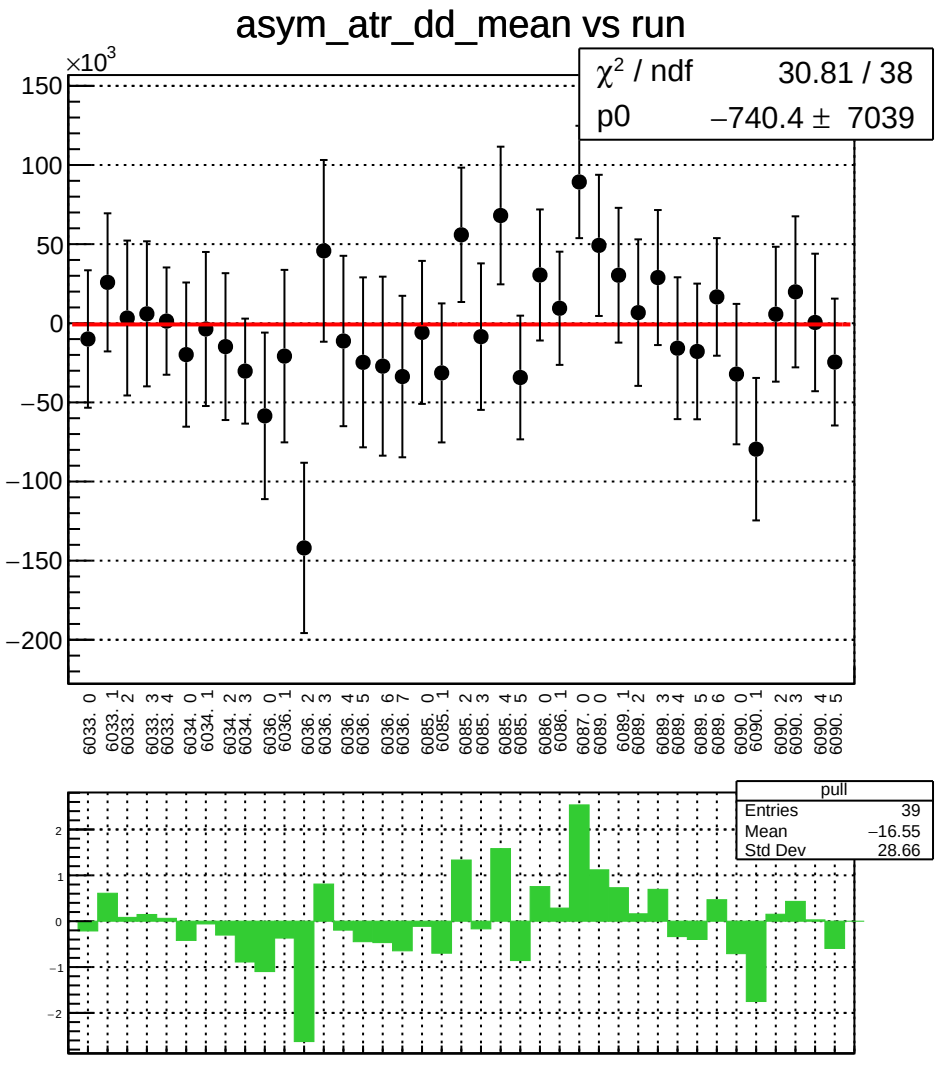

pull1D
Entries 39
Mean 0.03532
Std Dev 0.8942
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

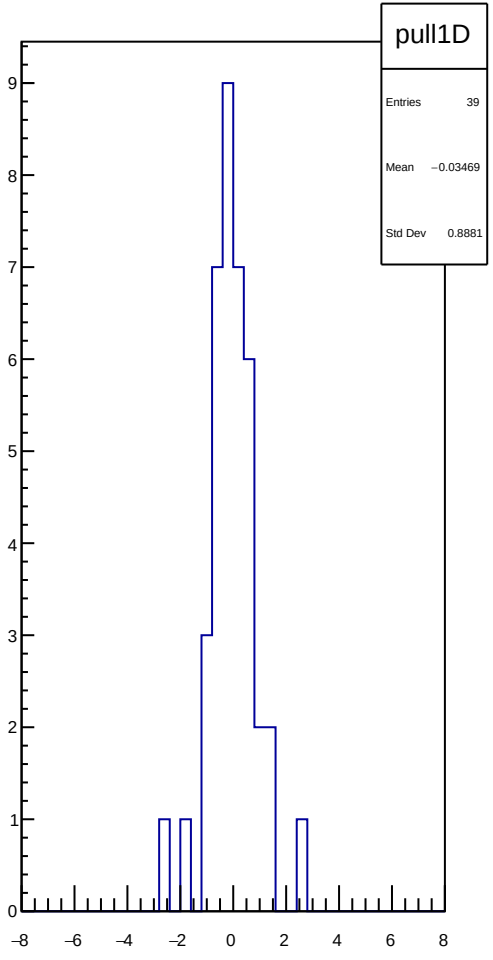

asym_atr_avg_rms vs run
χ² / ndf 4184 / 38
p0 4358 ± 4.975
5400
5200
5000
4800
4600
4400
4200
4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

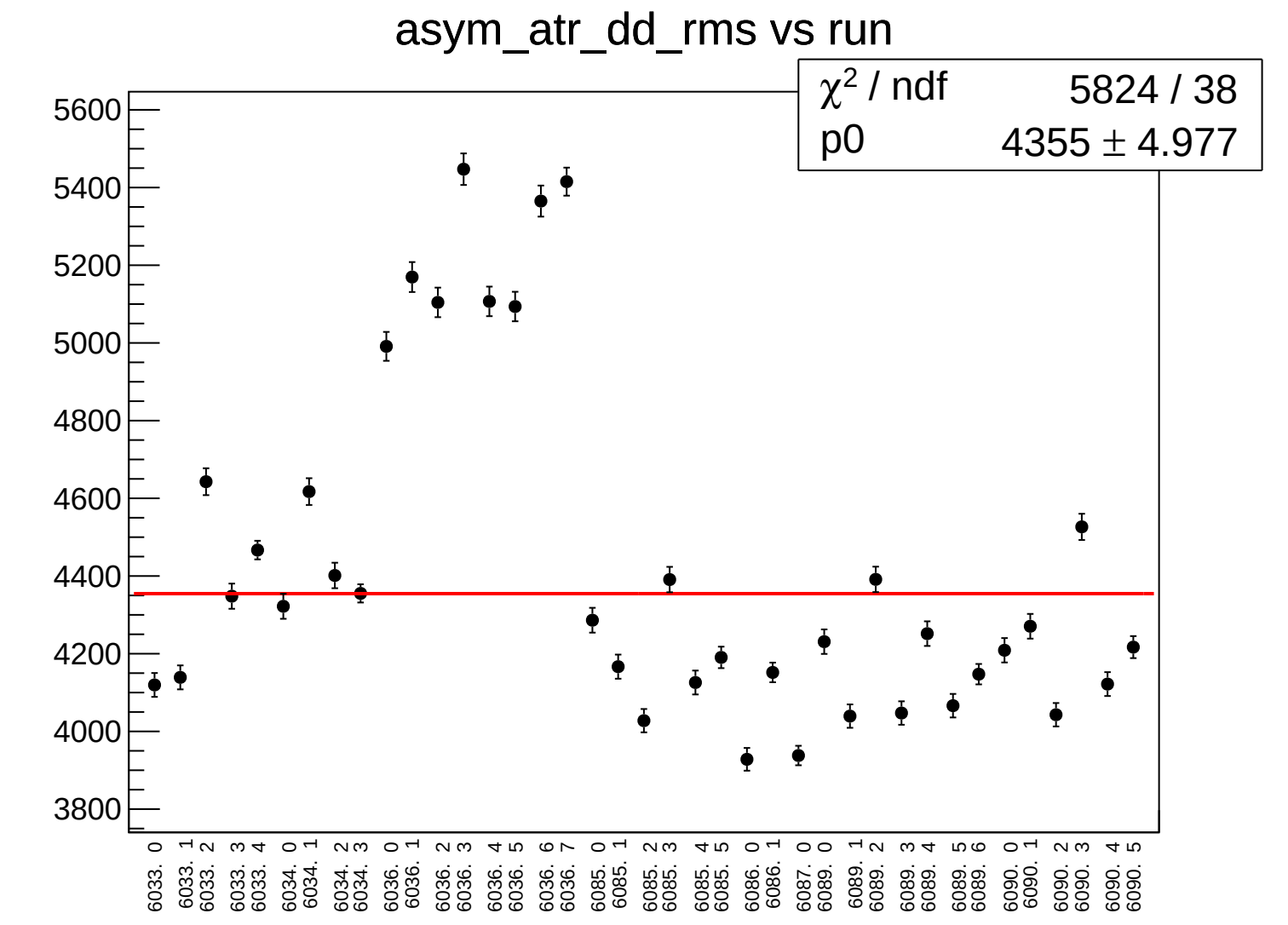

dit_asym_atr_dd_mean vs run
χ² / ndf 28.74 / 38
p0 2003 ± 3094
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 31.52
Std Dev 11.01
1.5
1
0.5
0
−0.5
−1
−1.5

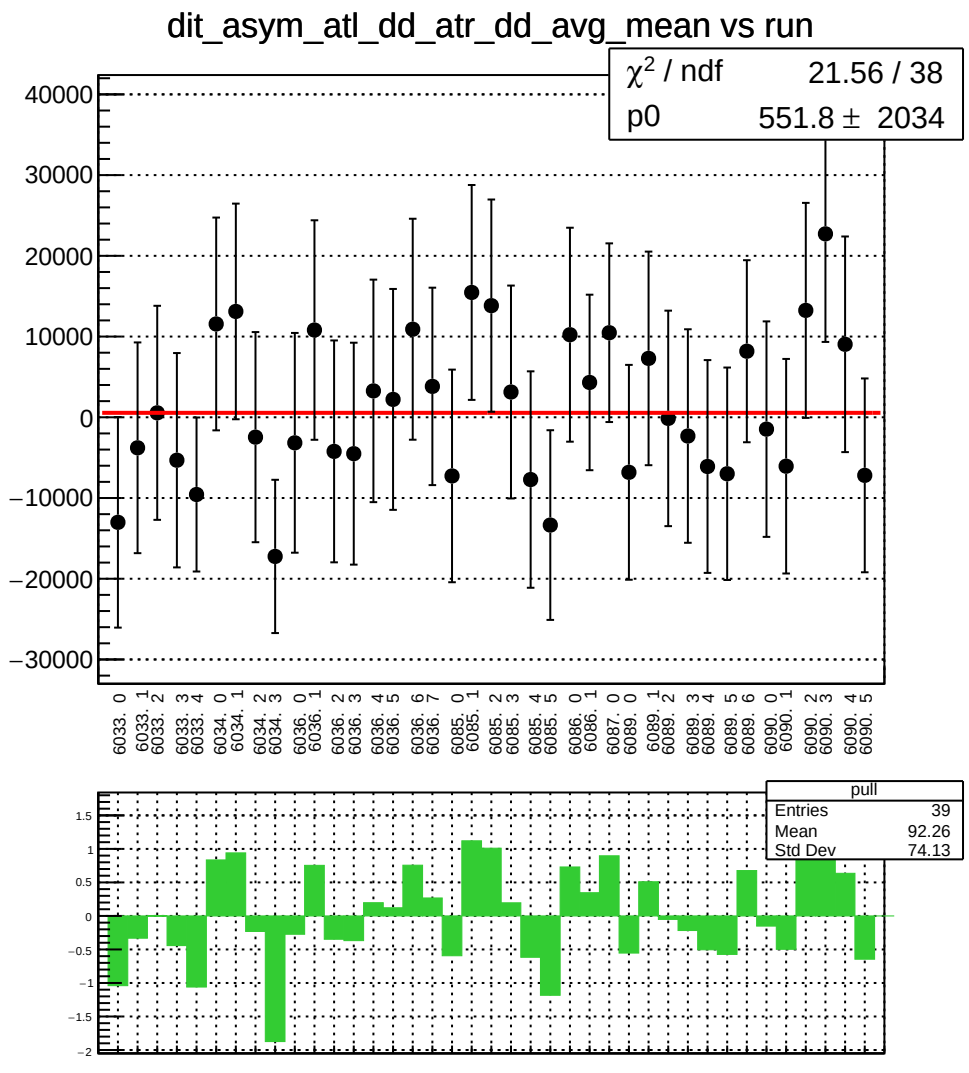

pull1D
Entries 39
Mean 0.01631
Std Dev 0.8582
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

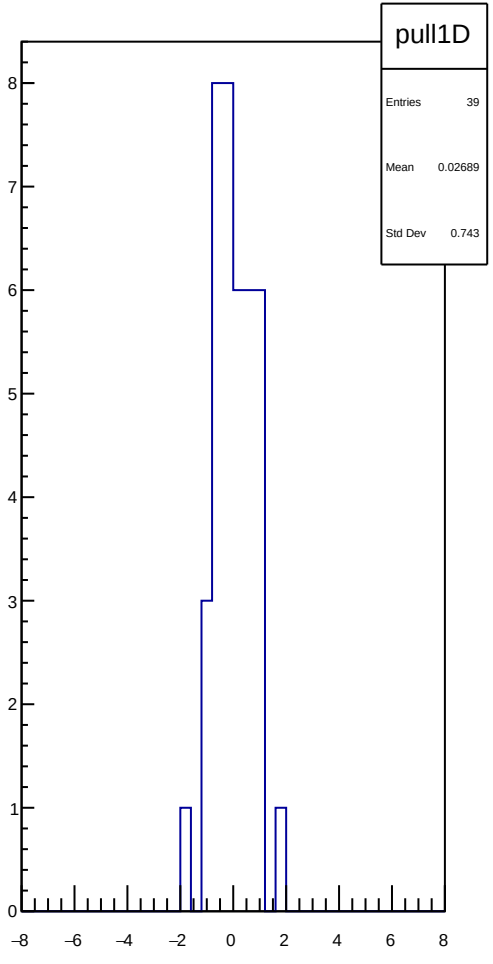

dit_asym_atr_dd_rms vs run
χ² / ndf 199.1 / 38
p0 1921 ± 2.188
2000
1980
1960
1940
1920
1900
1880
1860
1840
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

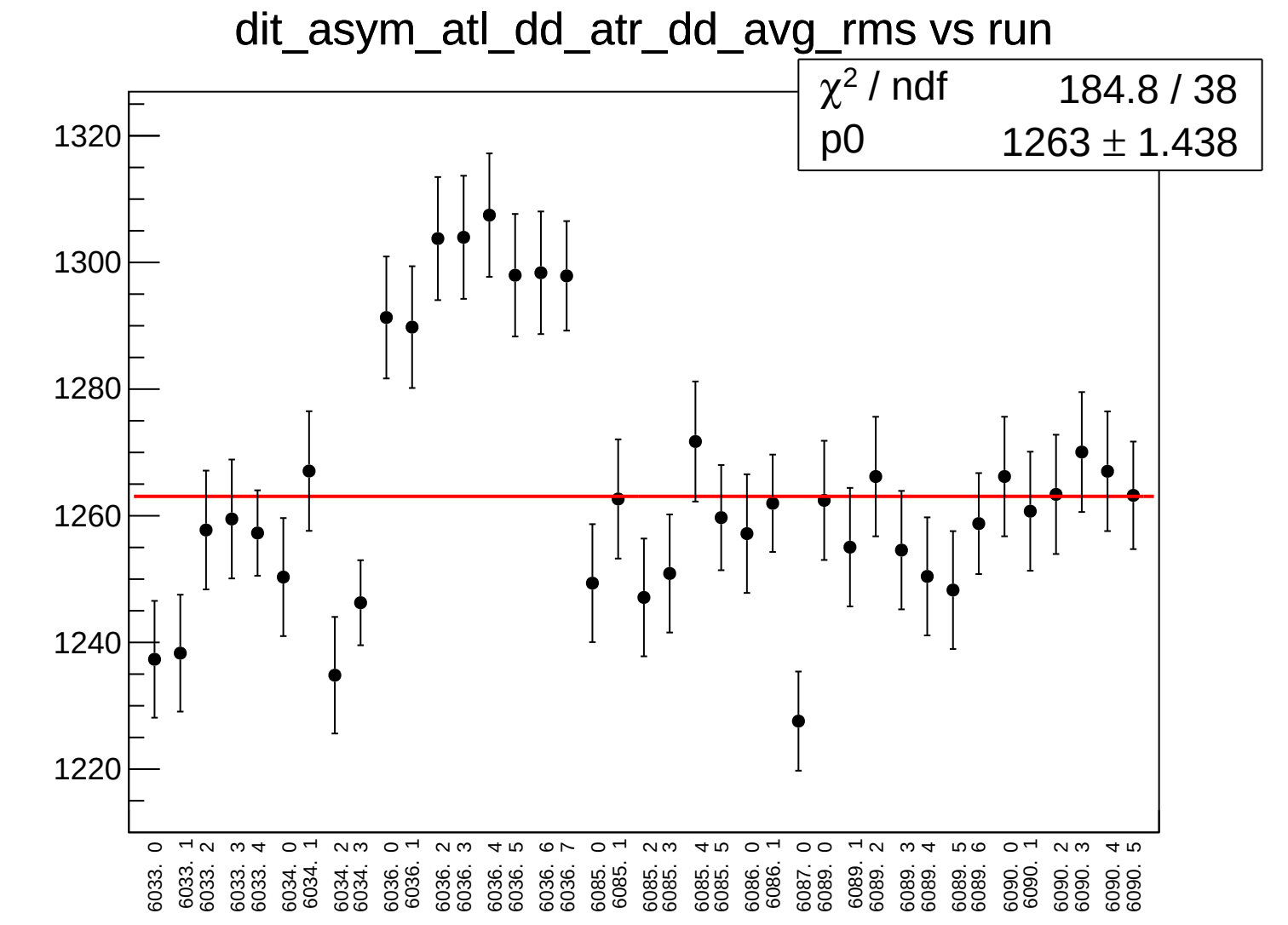

asym_atr_dd_mean vs run
×10^3
χ² / ndf 30.81 / 38
p0 −740.4 ± 7039
150
100
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

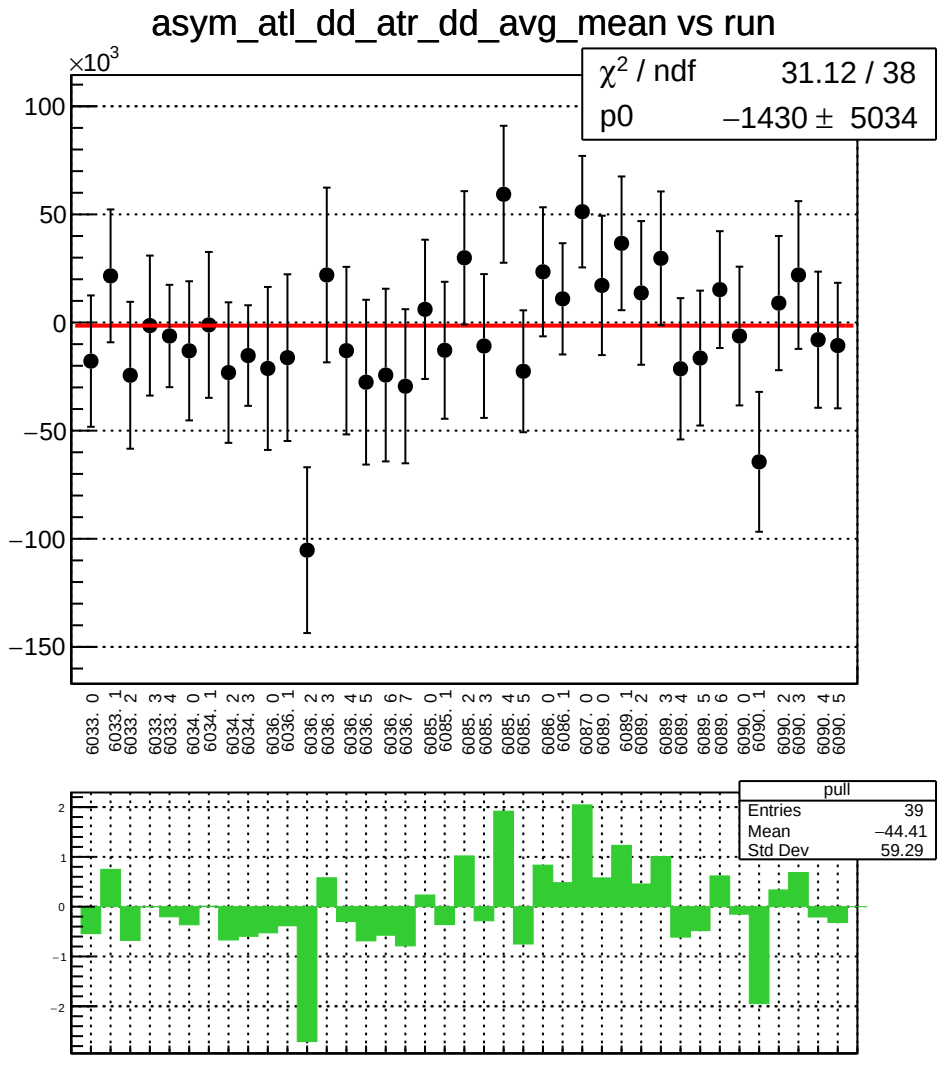

pull1D
Entries 39
Mean −0.03469
Std Dev 0.8881
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

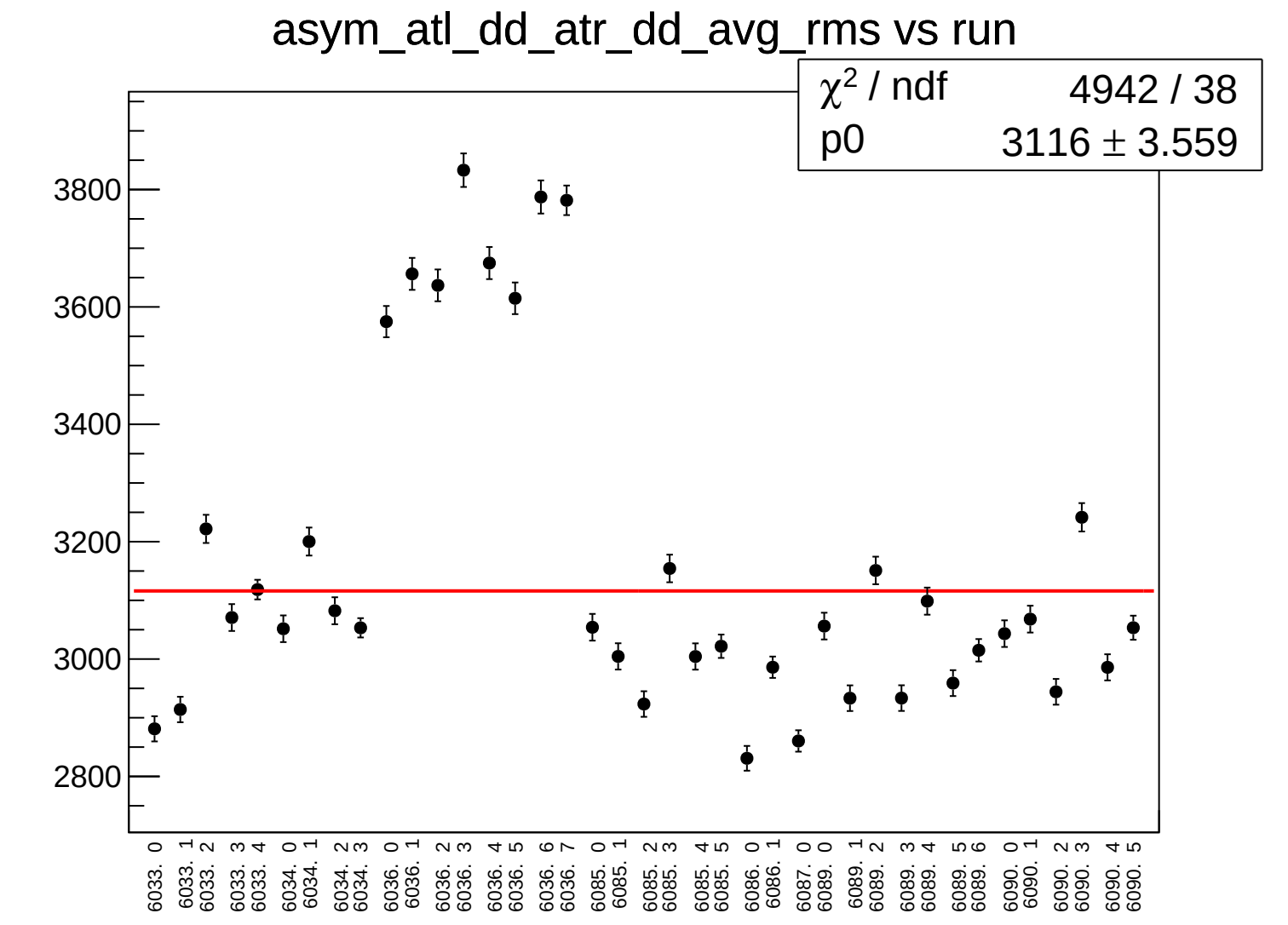

asym_atr_dd_rms vs run
χ² / ndf 5824 / 38
p0 4355 ± 4.977
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

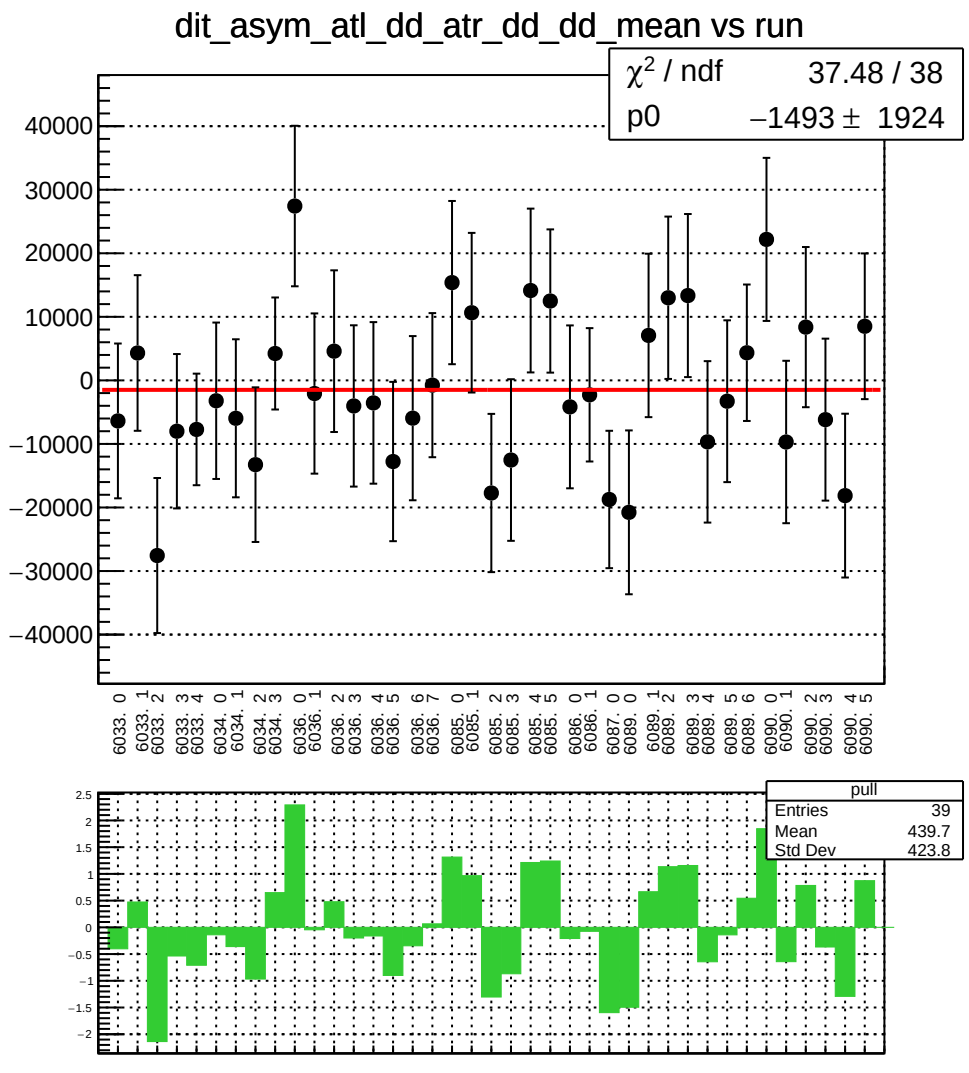

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 21.56 / 38
p0 551.8 ± 2034
40000
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 92.26
Std Dev 74.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

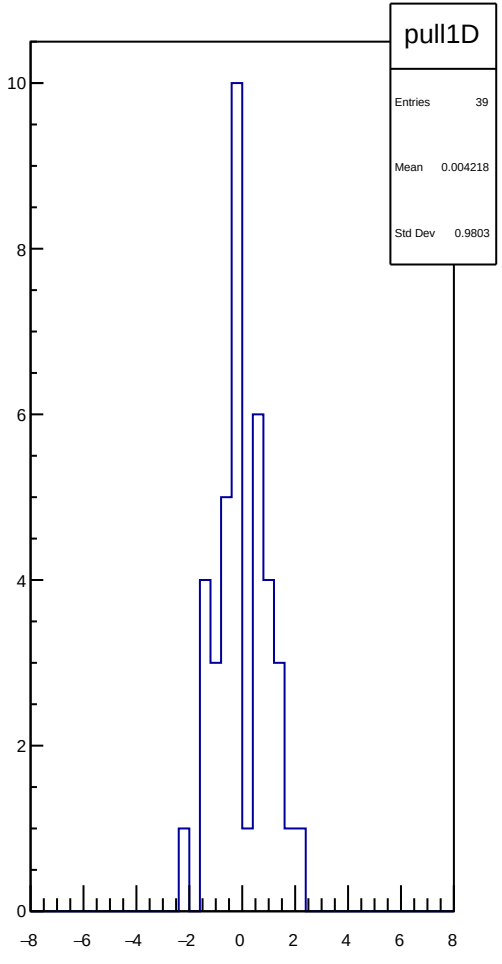

pull1D
Entries 39
Mean 0.02689
Std Dev 0.743
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

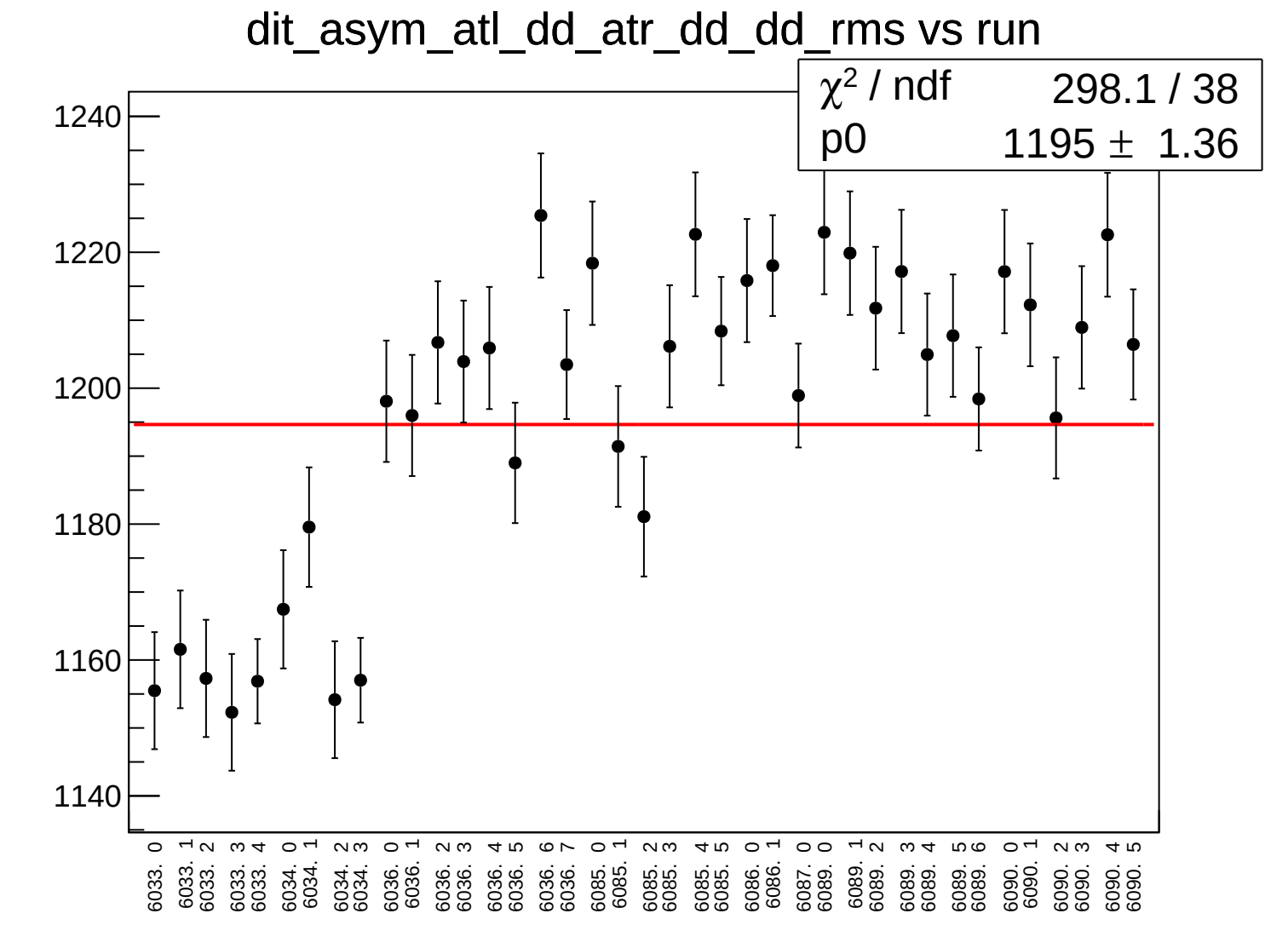

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 184.8 / 38
p0 1263 ± 1.438
1320
1300
1280
1260
1240
1220
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

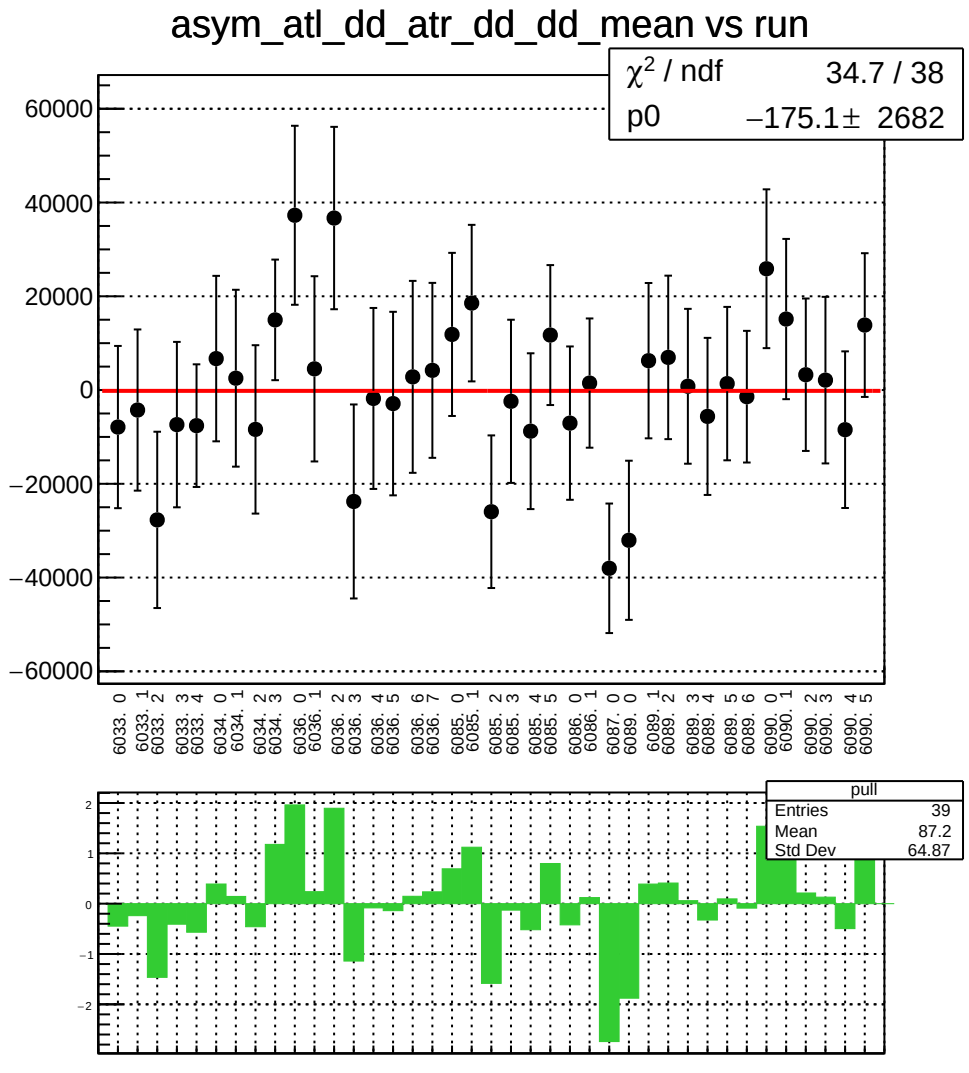

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 31.12 / 38
p0 −1430 ± 5034
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

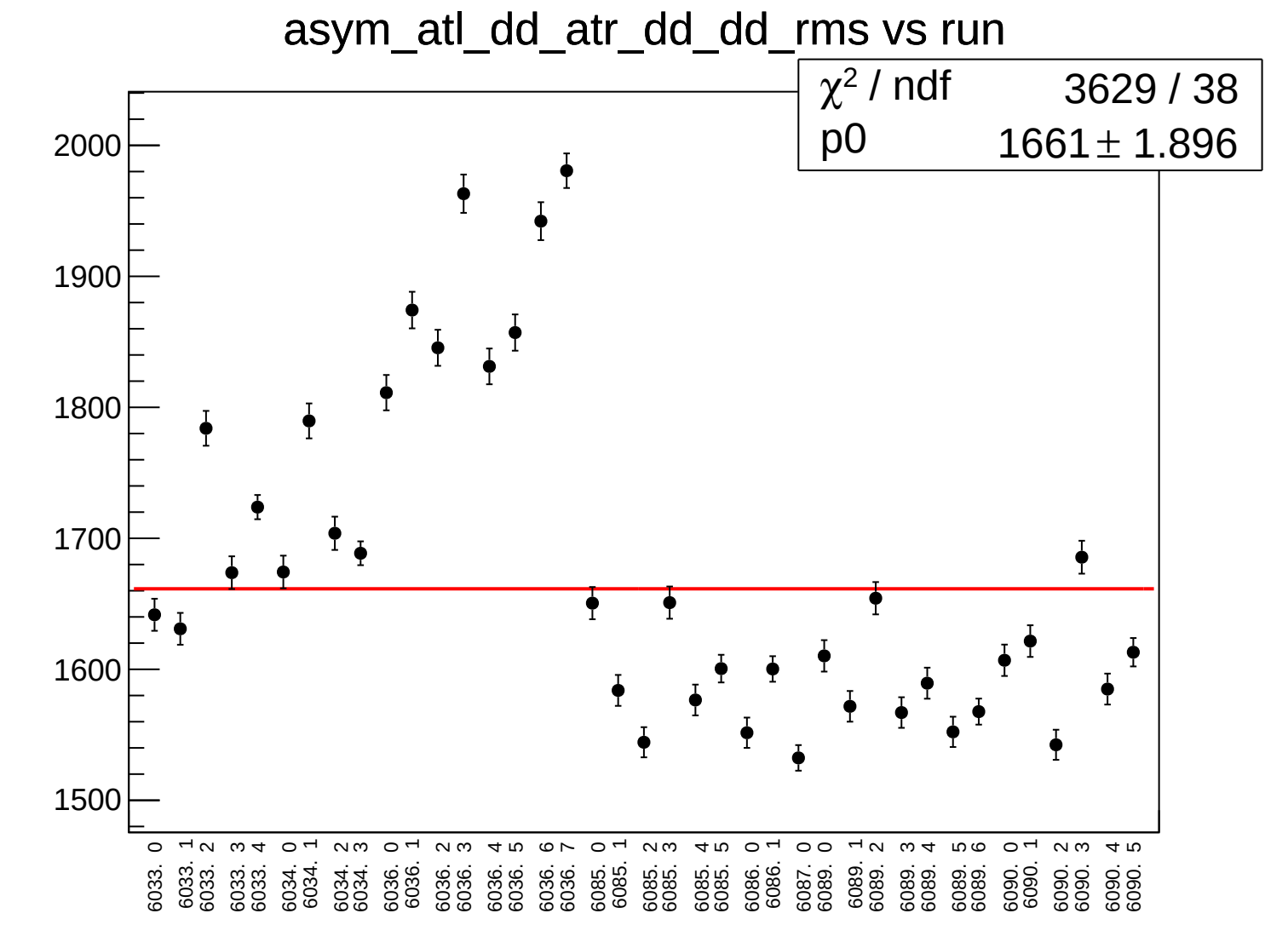

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4942 / 38
p0 3116 ± 3.559
3800
3600
3400
3200
3000
2800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

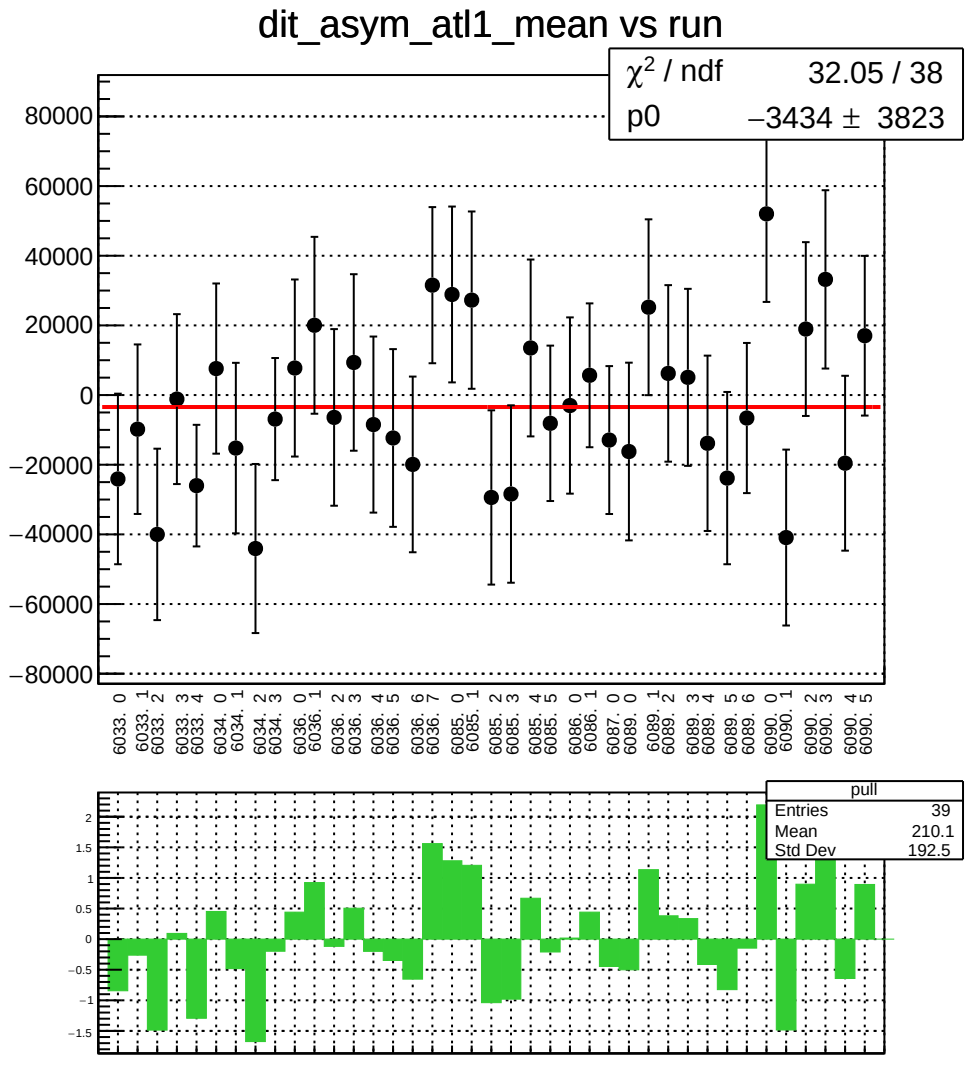

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 37.48 / 38
p0 −1493 ± 1924
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 439.7
Std Dev 423.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

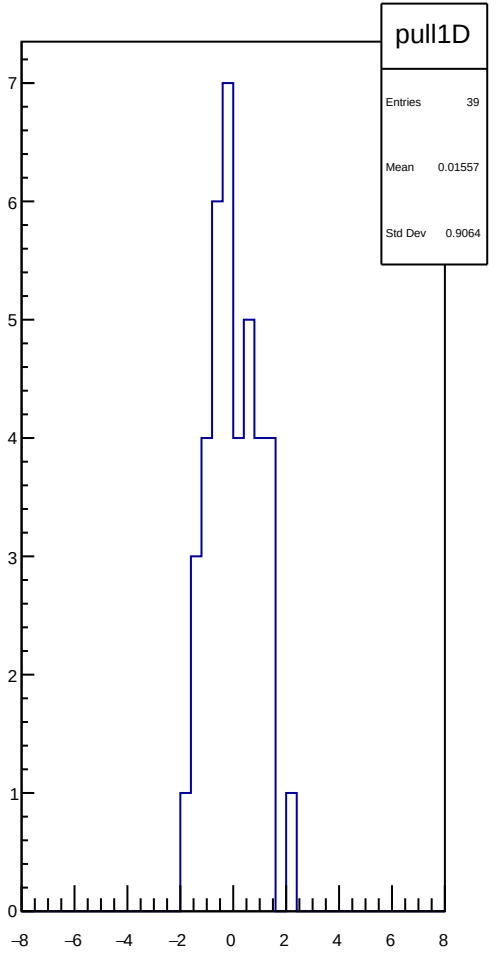

pull1D
Entries 39
Mean 0.004218
Std Dev 0.9803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

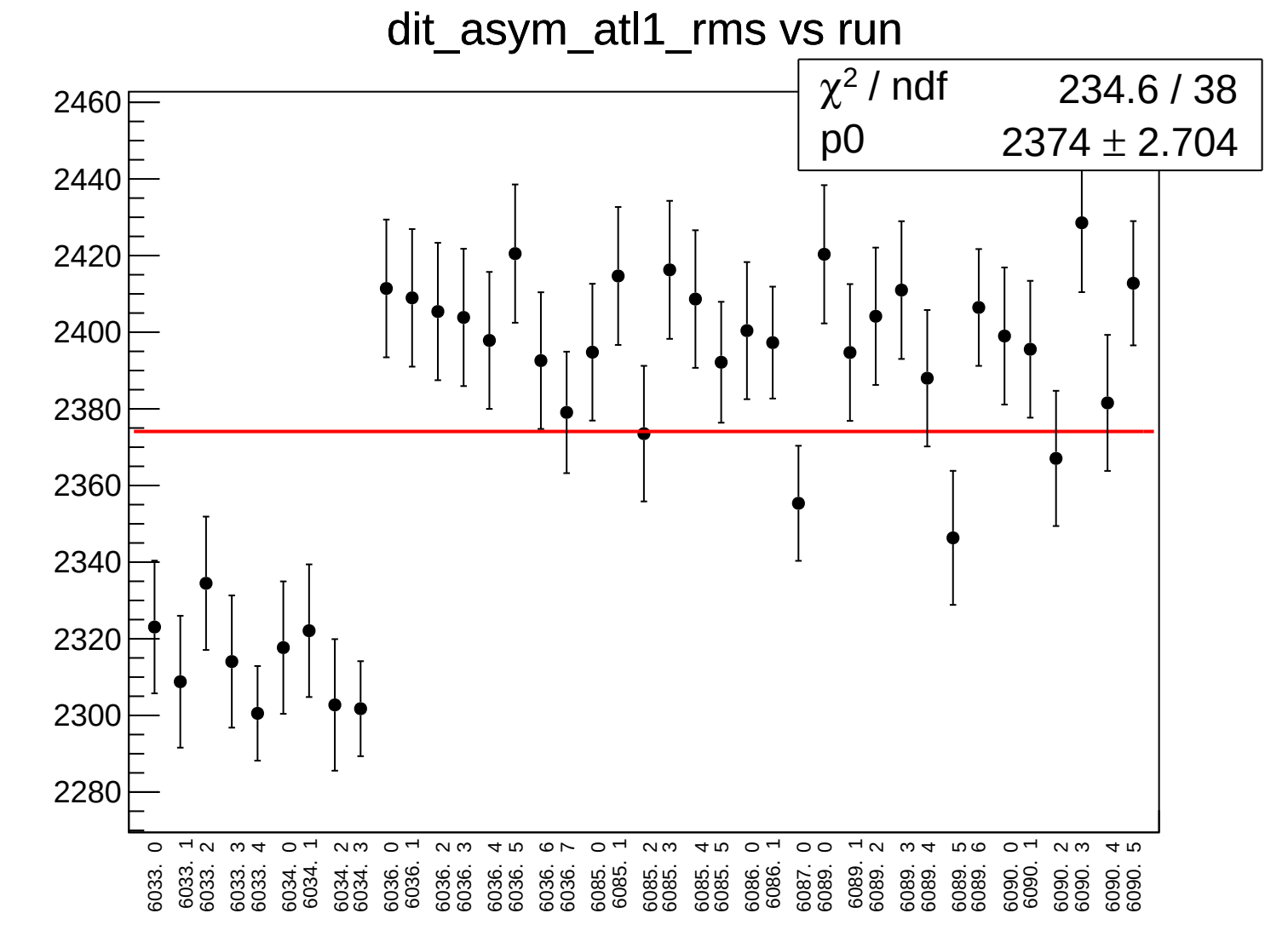

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 298.1 / 38
p0 1195 ± 1.36
1240
1220
1200
1180
1160
1140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

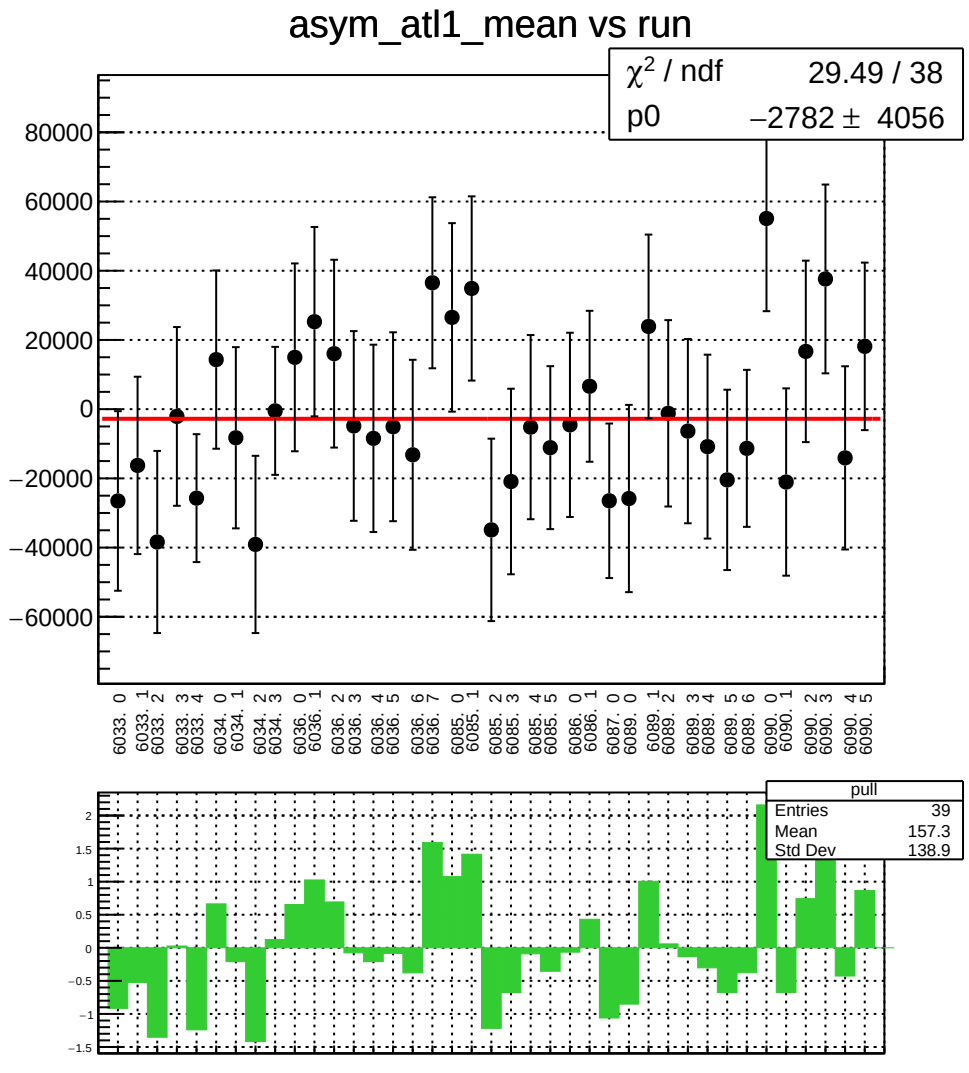

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.7 / 38
p0 −175.1± 2682
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0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

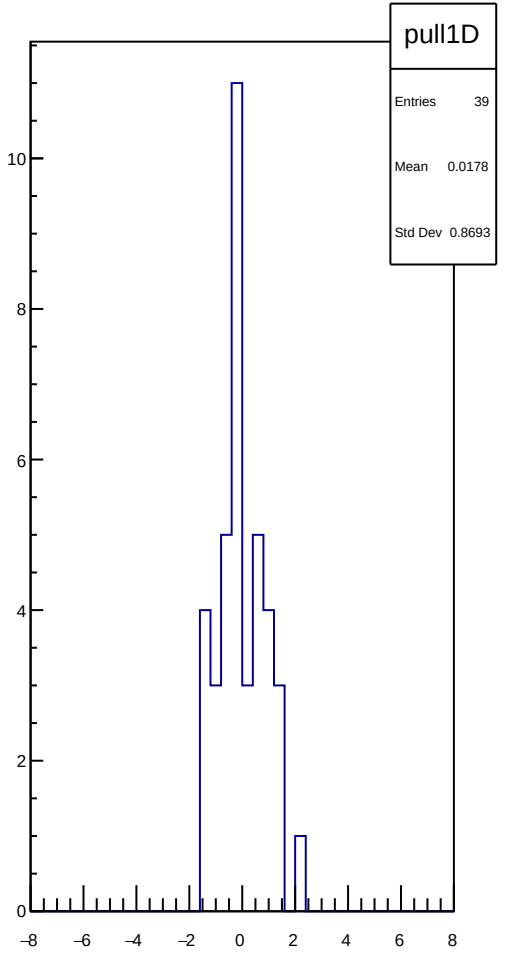

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3629 / 38
p0 1661 ± 1.896
2000
1900
1800
1700
1600
1500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

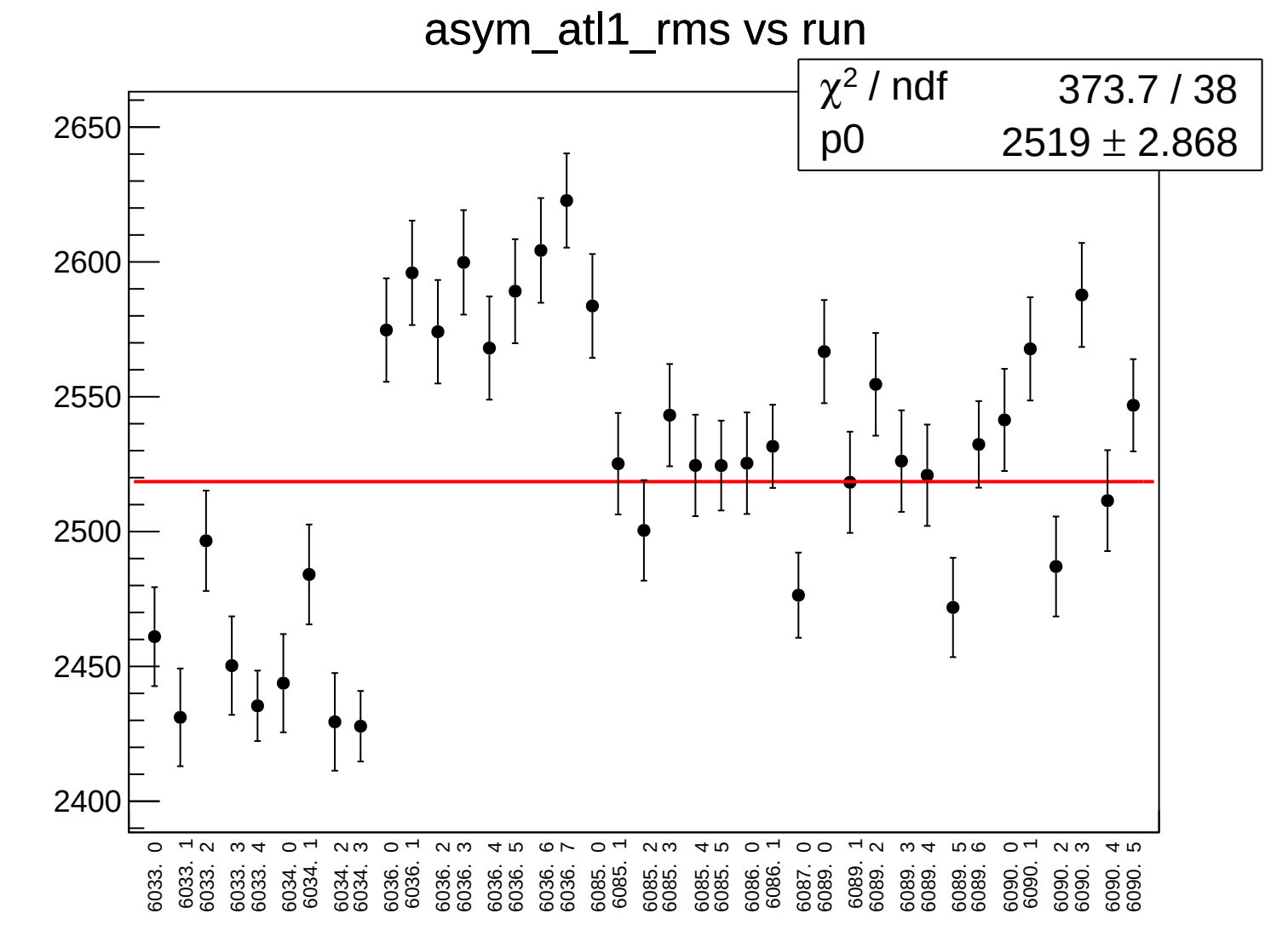

dit_asym_atl1_mean vs run
χ² / ndf 32.05 / 38
p0 −3434 ± 3823
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 210.1
Std Dev 192.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

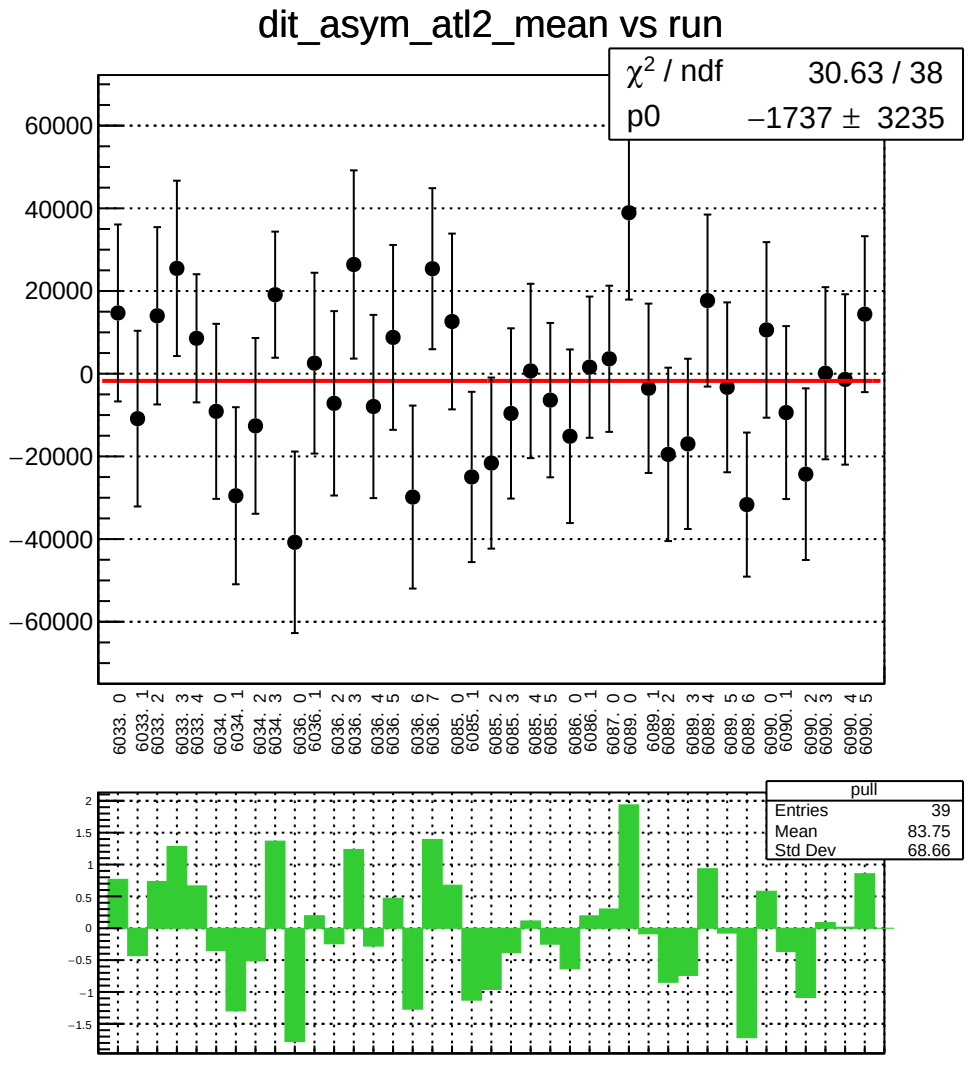

pull1D
Entries 39
Mean 0.01557
Std Dev 0.9064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

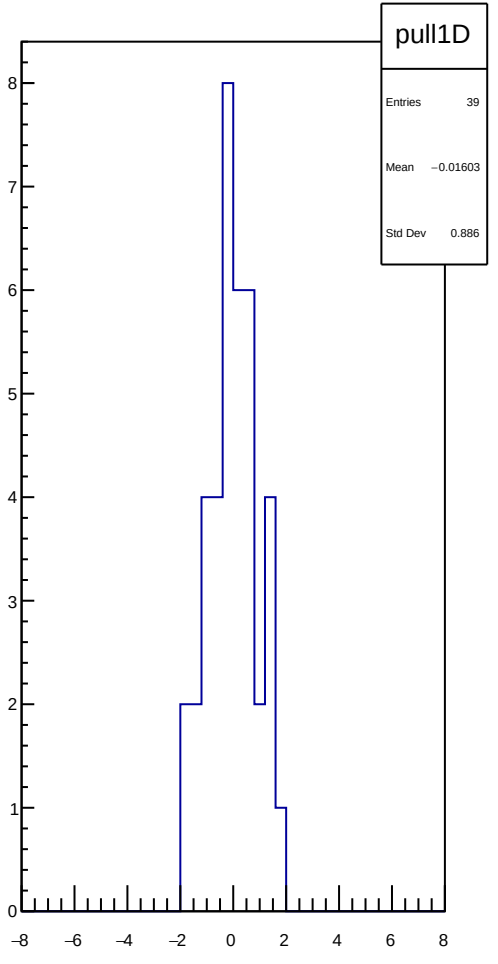

dit_asym_atl1_rms vs run
χ² / ndf 234.6 / 38
p0 2374 ± 2.704
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

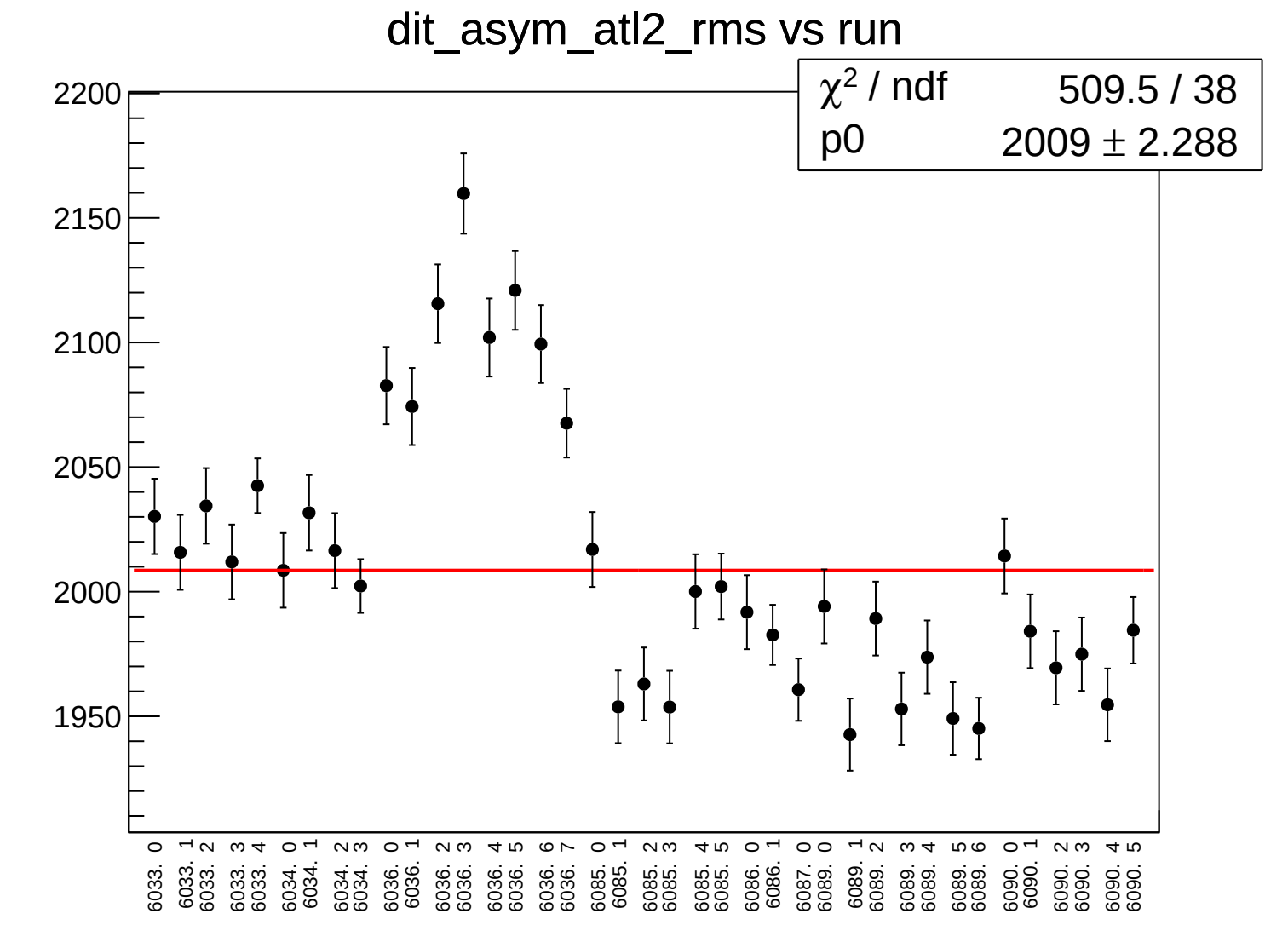

asym_atl1_mean vs run
χ² / ndf 29.49 / 38
p0 −2782 ± 4056
80000
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

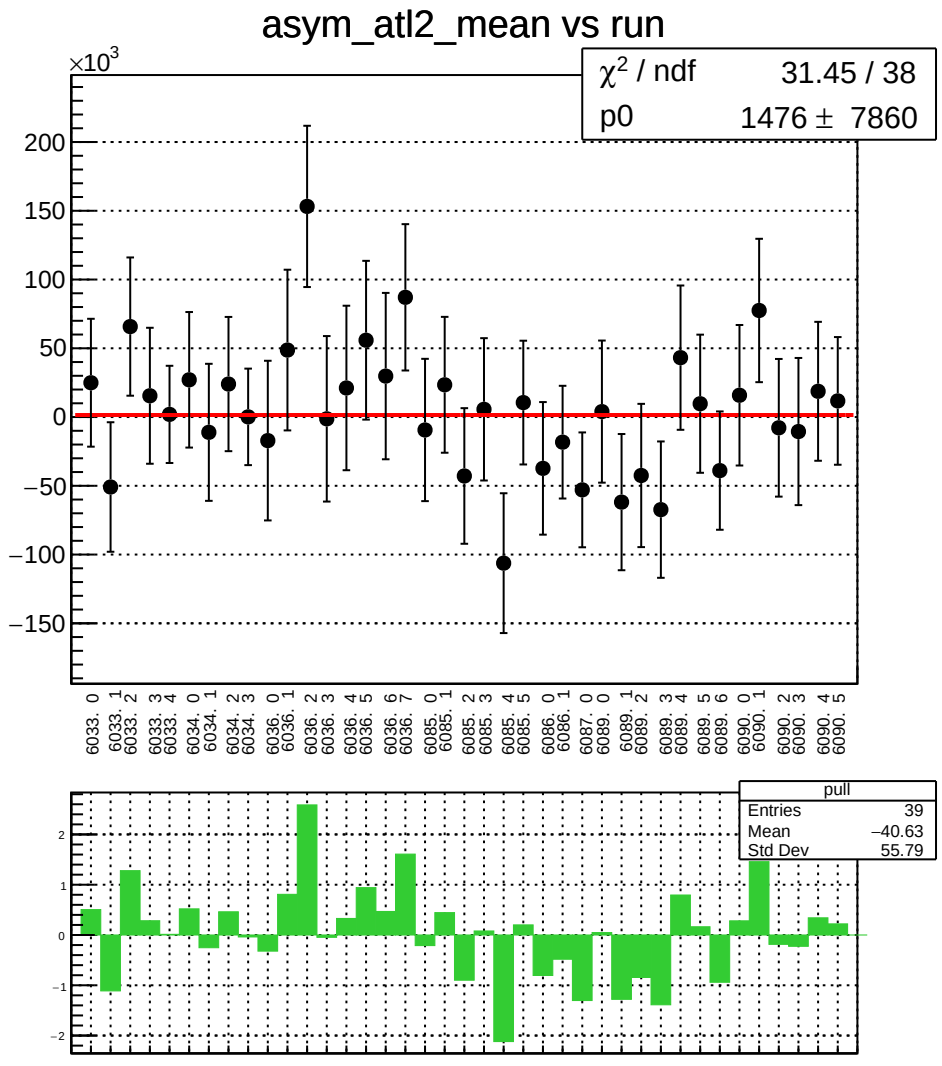

pull1D
Entries 39
Mean 0.0178
Std Dev 0.8693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

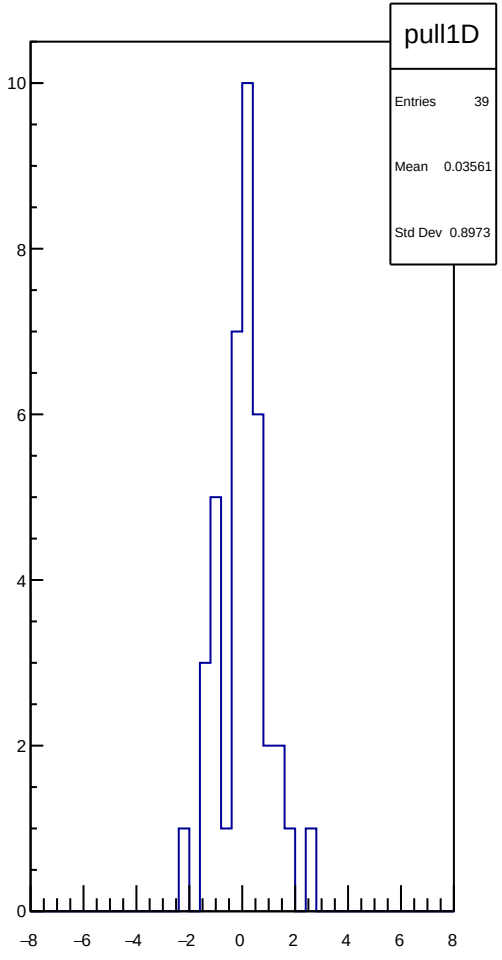

asym_atl1_rms vs run
χ² / ndf 373.7 / 38
p0 2519 ± 2.868
2650
2600
2550
2500
2450
2400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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

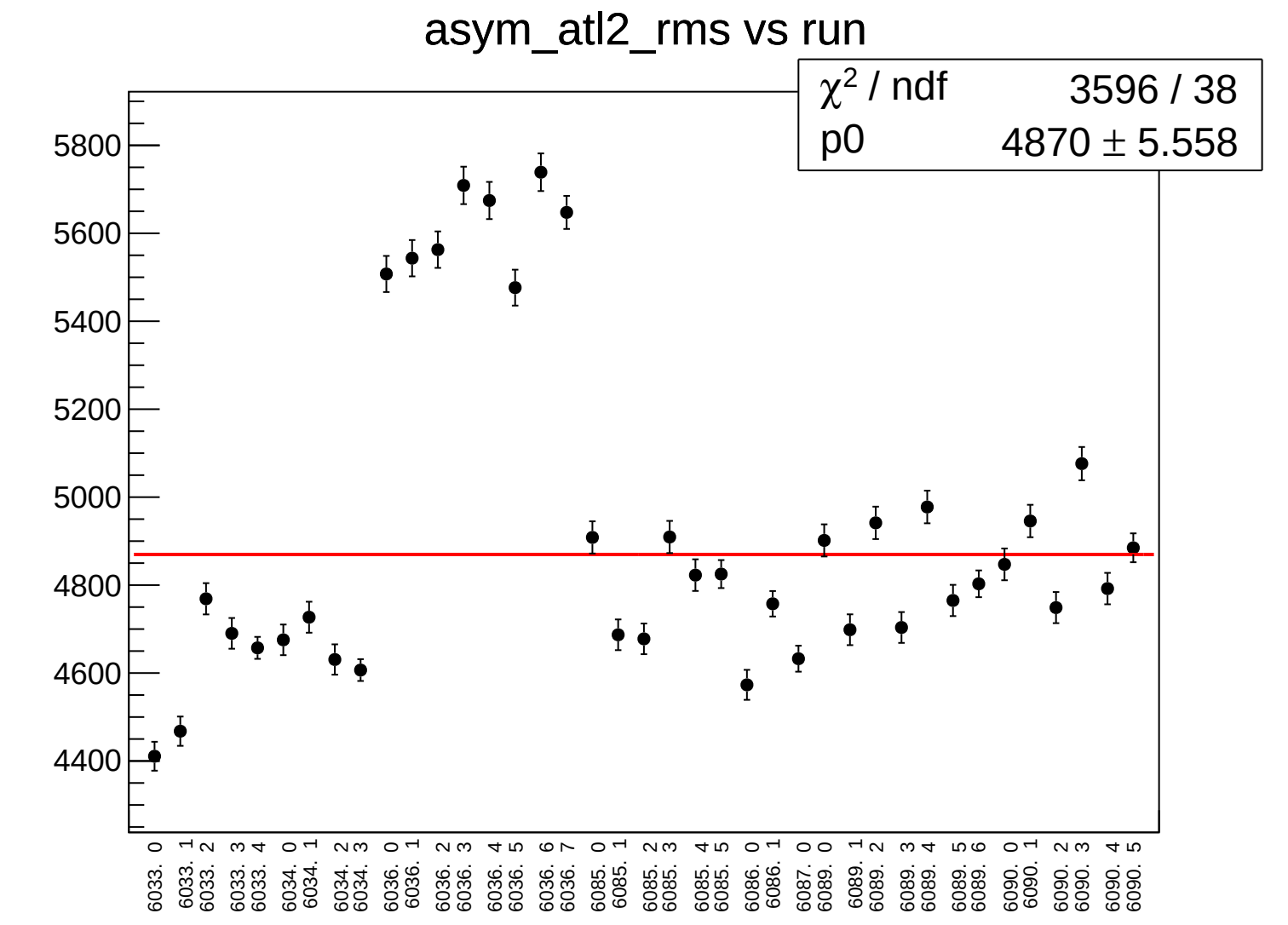

dit_asym_atl2_mean vs run
χ² / ndf 30.63 / 38
p0 −1737 ± 3235
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 83.75
Std Dev 68.66
2
1.5
1
0.5
0
−0.5
−1
−1.5

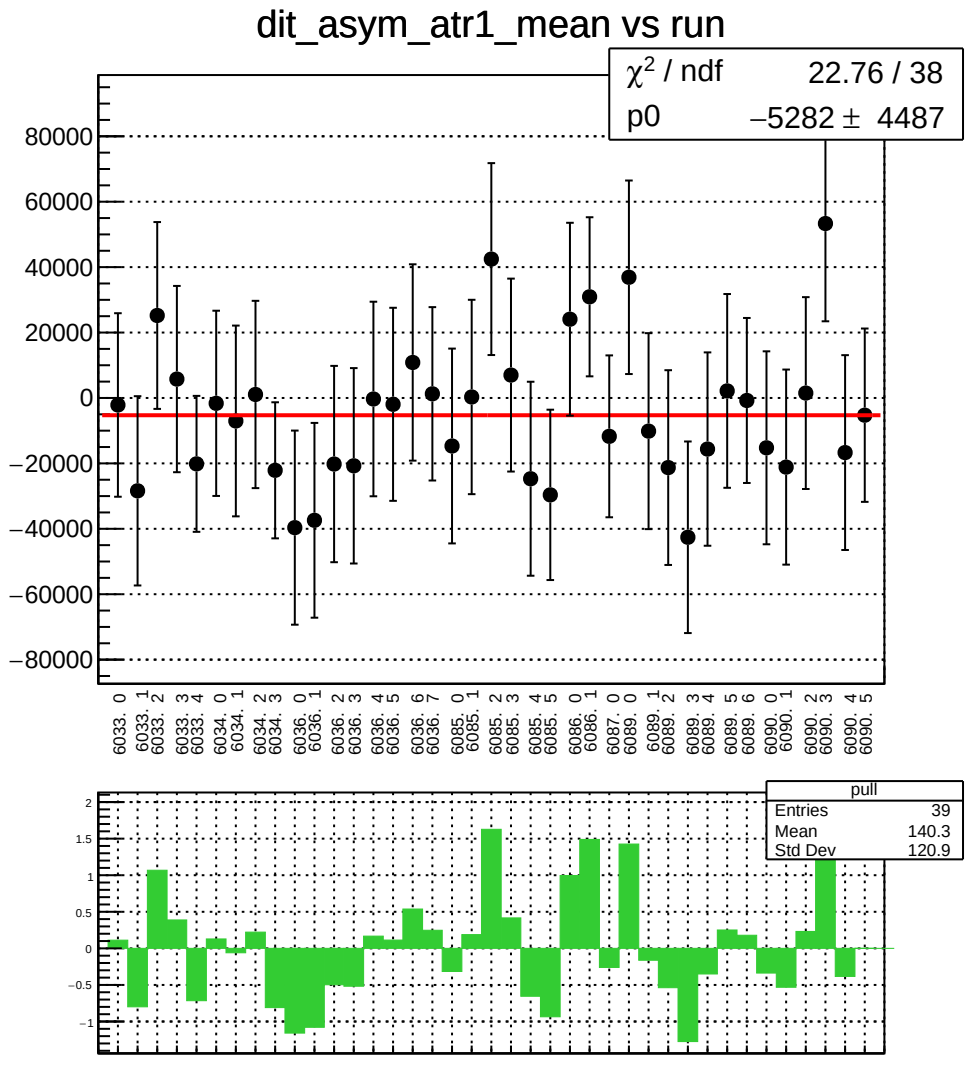

pull1D
Entries 39
Mean −0.01603
Std Dev 0.886
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

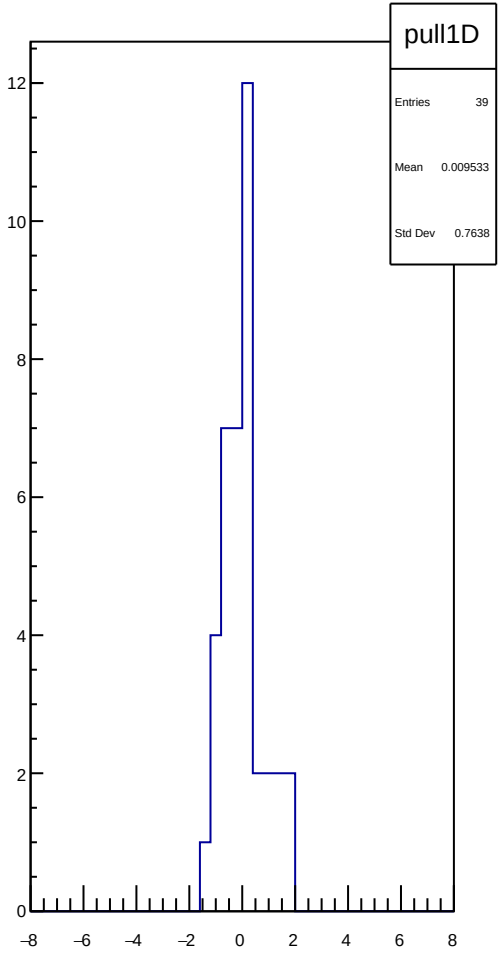

dit_asym_atl2_rms vs run
χ² / ndf 509.5 / 38
p0 2009 ± 2.288
2200
2150
2100
2050
2000
1950
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

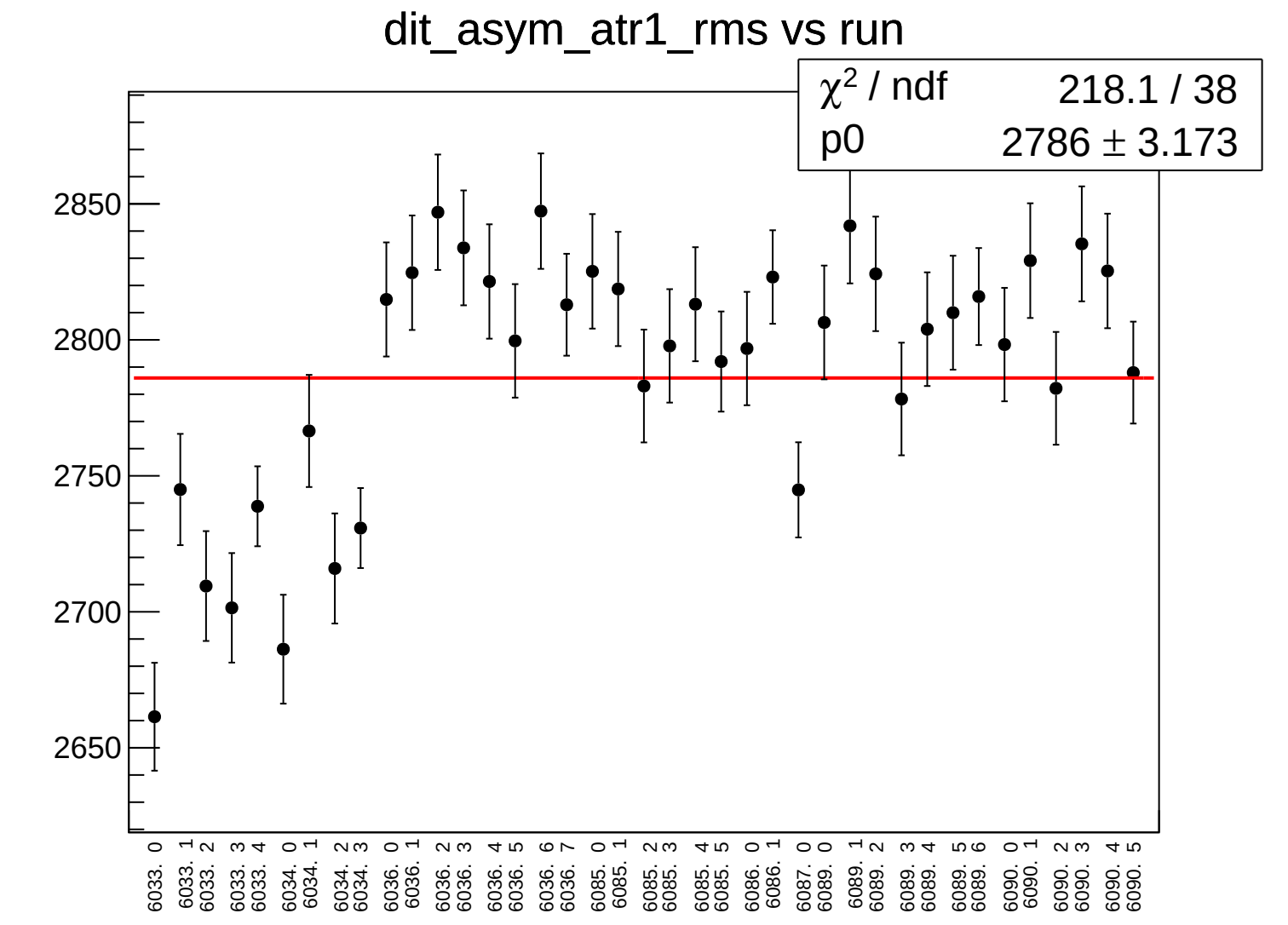

asym_atl2_mean vs run
×10^3
χ^2 / ndf 31.45 / 38
p0 1476 ± 7860
200
150
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

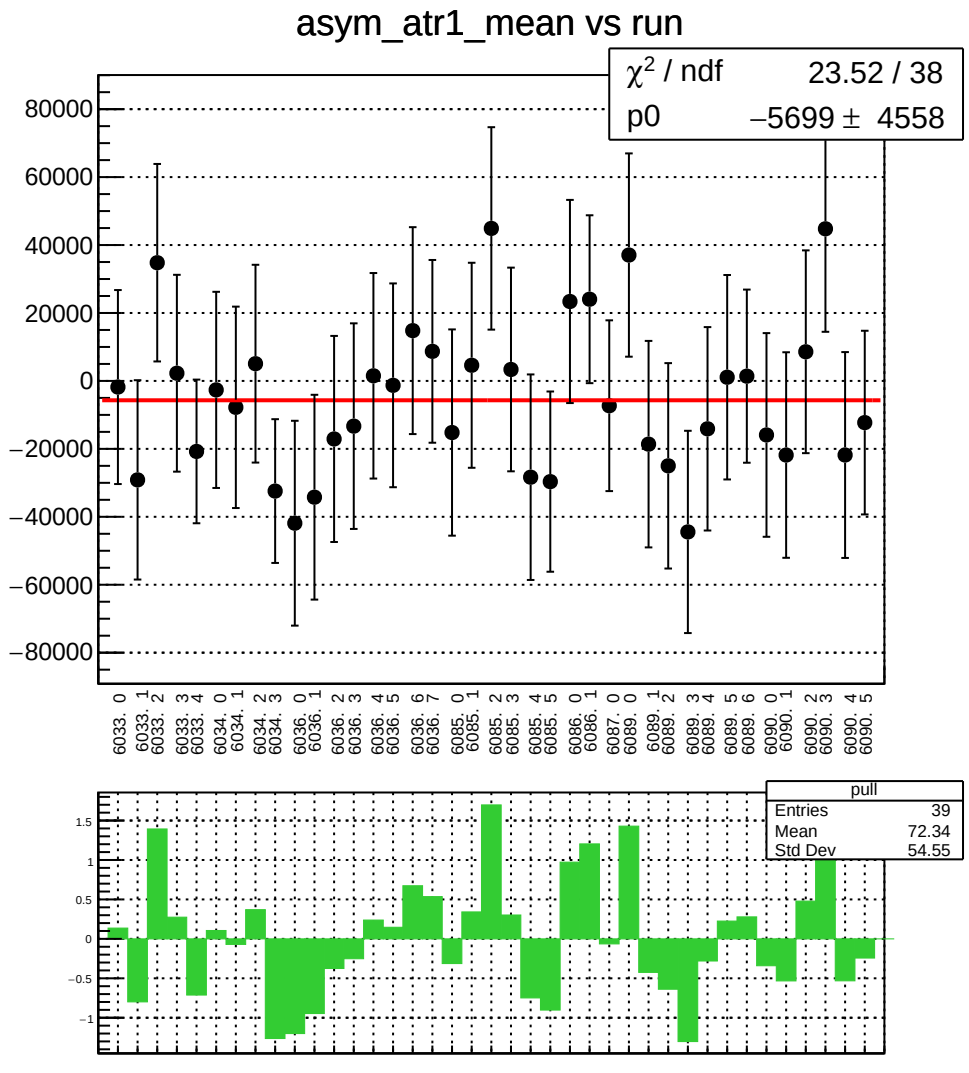

pull1D
Entries 39
Mean 0.03561
Std Dev 0.8973
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

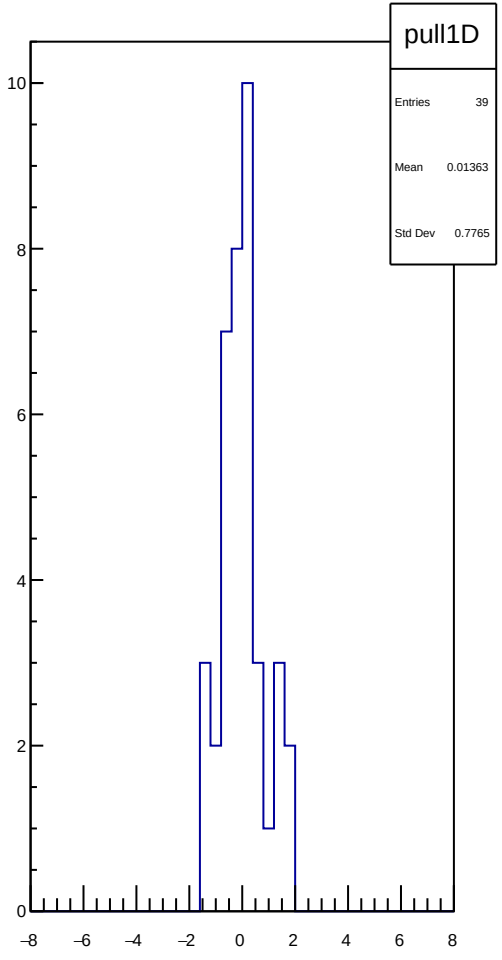

asym_atl2_rms vs run
χ² / ndf 3596 / 38
p0 4870 ± 5.558
5800
5600
5400
5200
5000
4800
4600
4400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

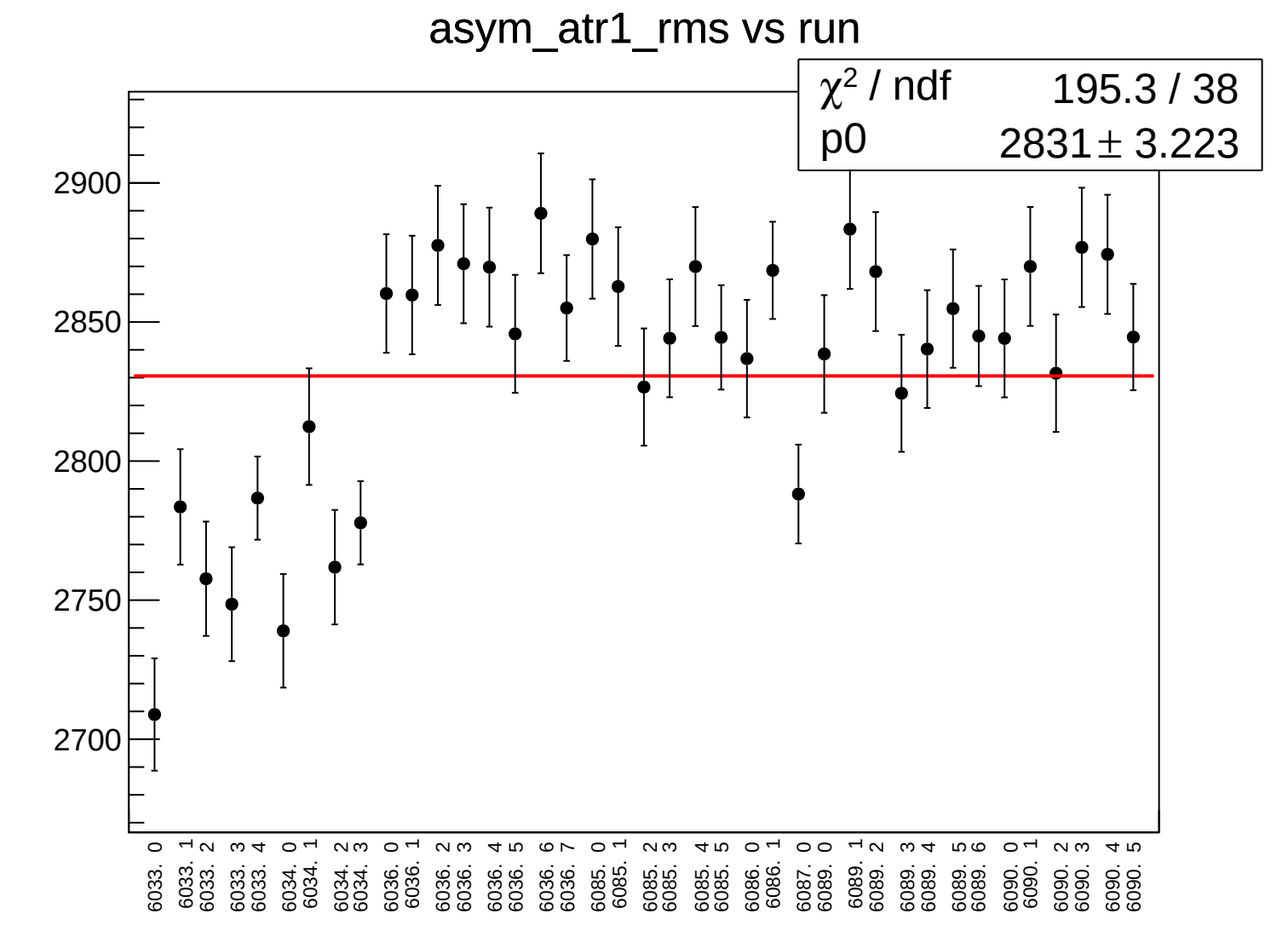

dit_asym_atr1_mean vs run
χ² / ndf 22.76 / 38
p0 −5282 ± 4487
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 140.3
Std Dev 120.9
2
1.5
1
0.5
0
−0.5
−1

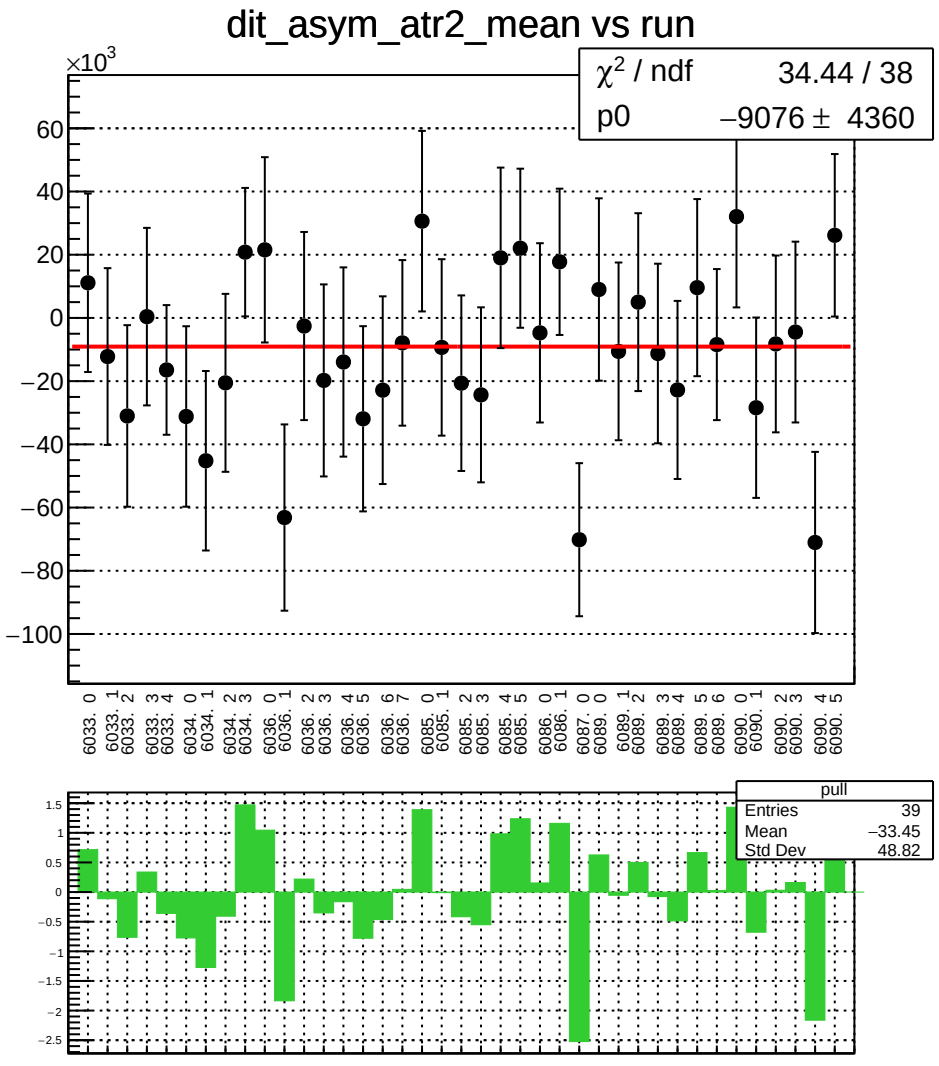

pull1D
Entries 39
Mean 0.009533
Std Dev 0.7638
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

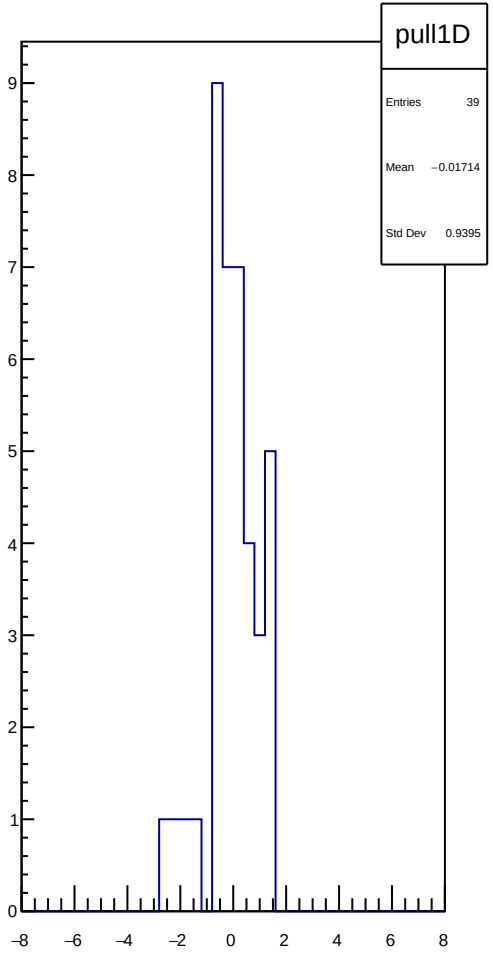

dit_asym_atr1_rms vs run
χ² / ndf 218.1 / 38
p0 2786 ± 3.173
2850
2800
2750
2700
2650
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

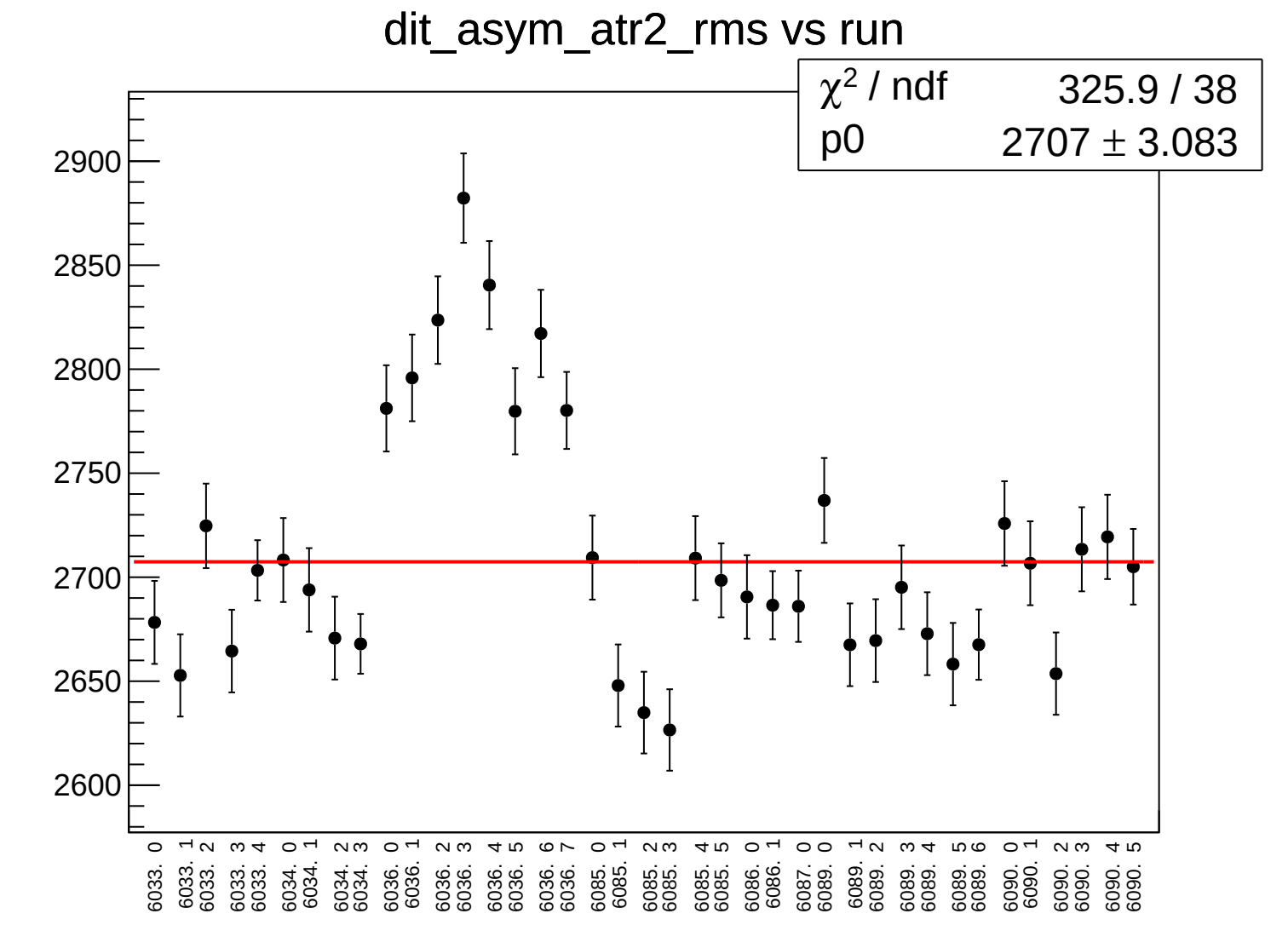

asym_atr1_mean vs run
χ² / ndf 23.52 / 38
p0 −5699 ± 4558
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086.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

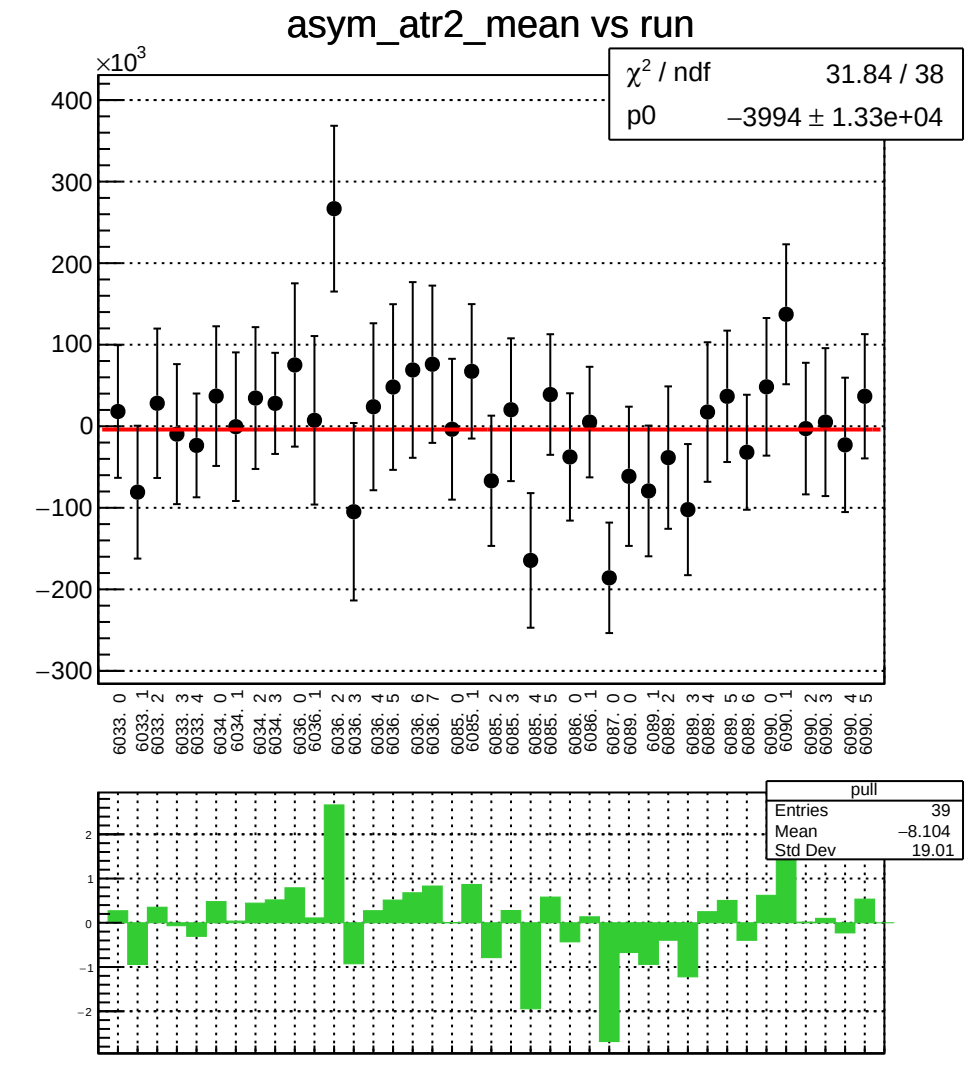

pull1D
Entries 39
Mean 0.01363
Std Dev 0.7765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

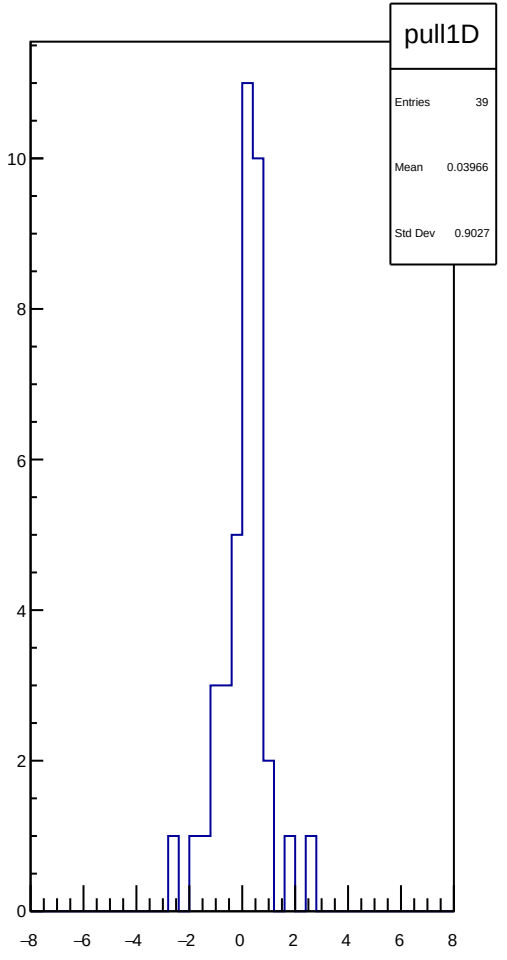

asym_atr1_rms vs run
χ² / ndf 195.3 / 38
p0 2831 ± 3.223
2900
2850
2800
2750
2700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089.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

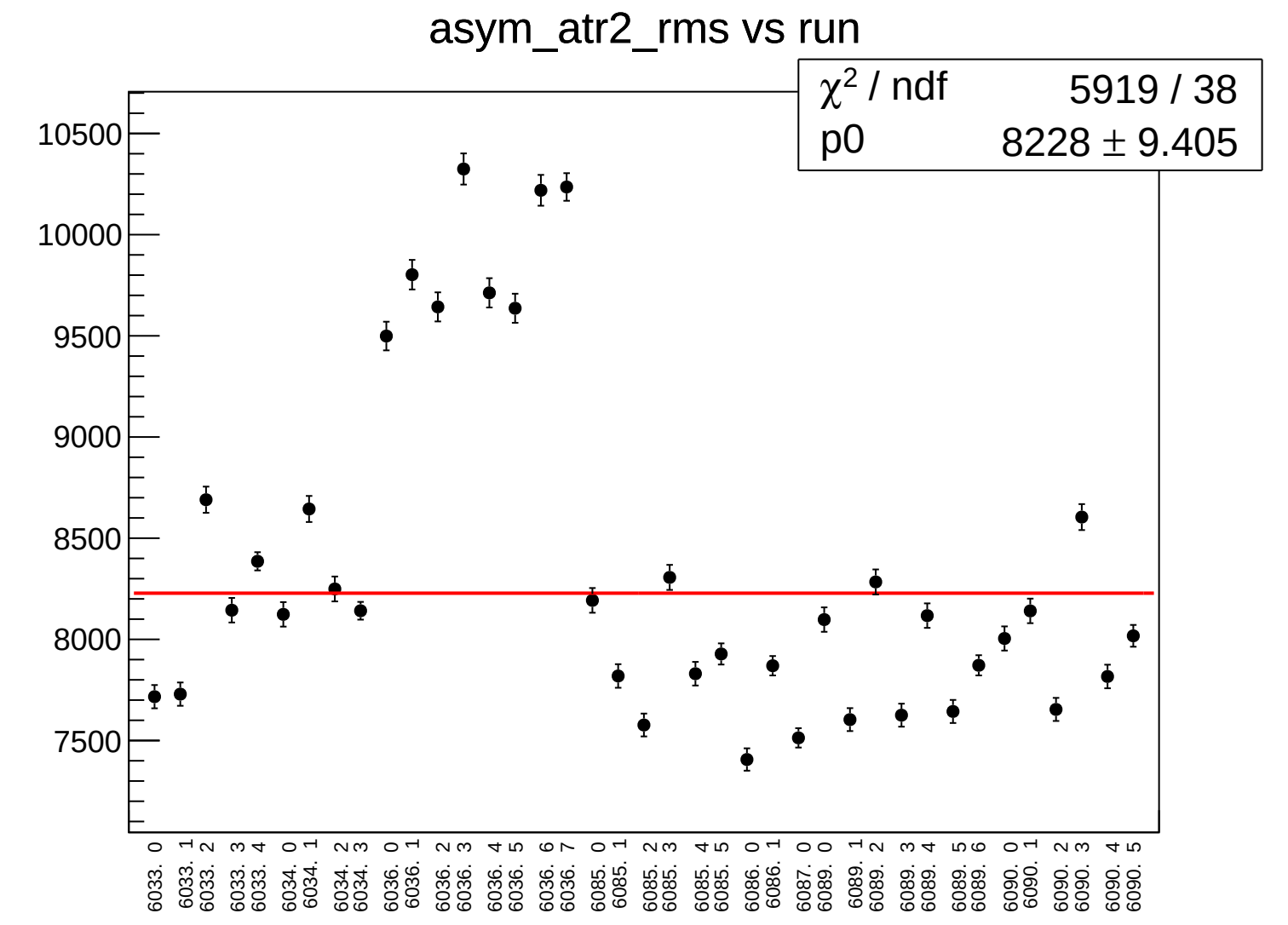

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 34.44 / 38
p0 −9076 ± 4360
60
40
20
0
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −33.45
Std Dev 48.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

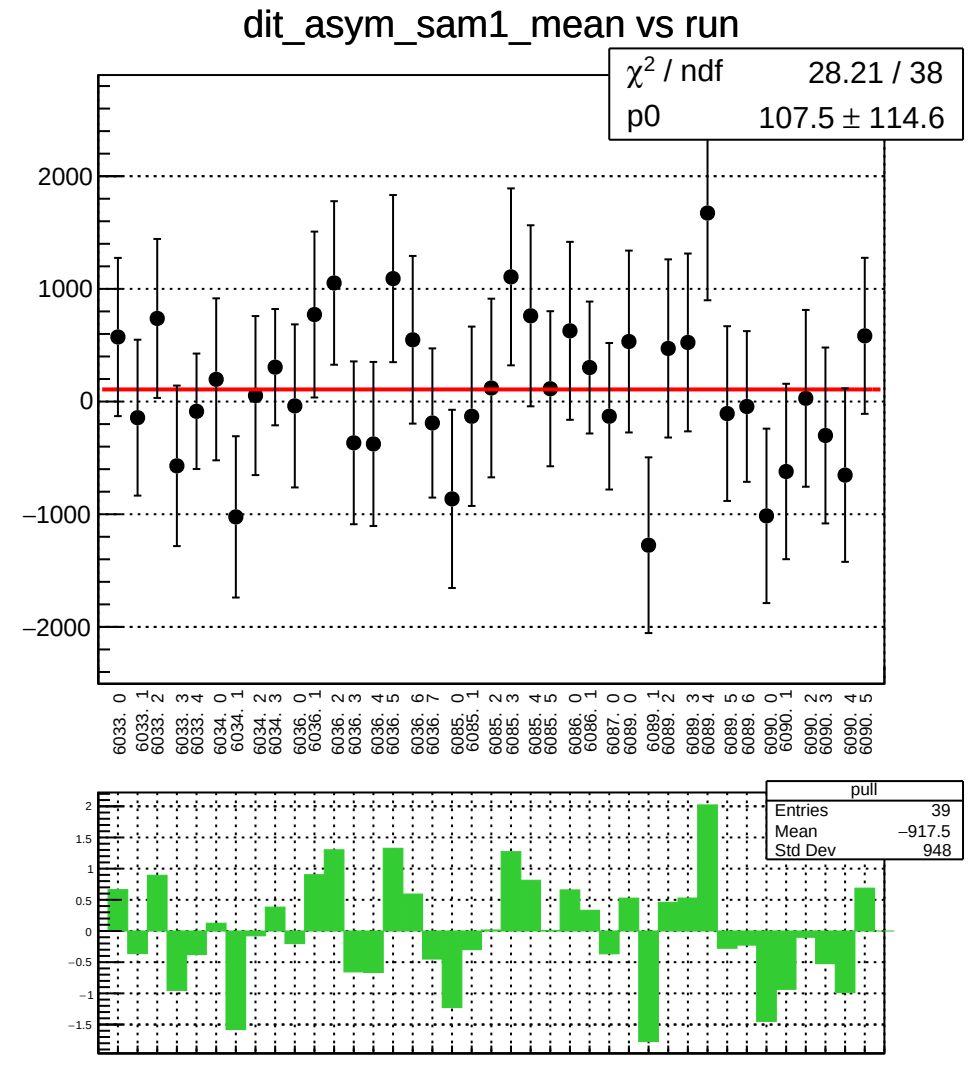

pull1D
Entries 39
Mean −0.01714
Std Dev 0.9395
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

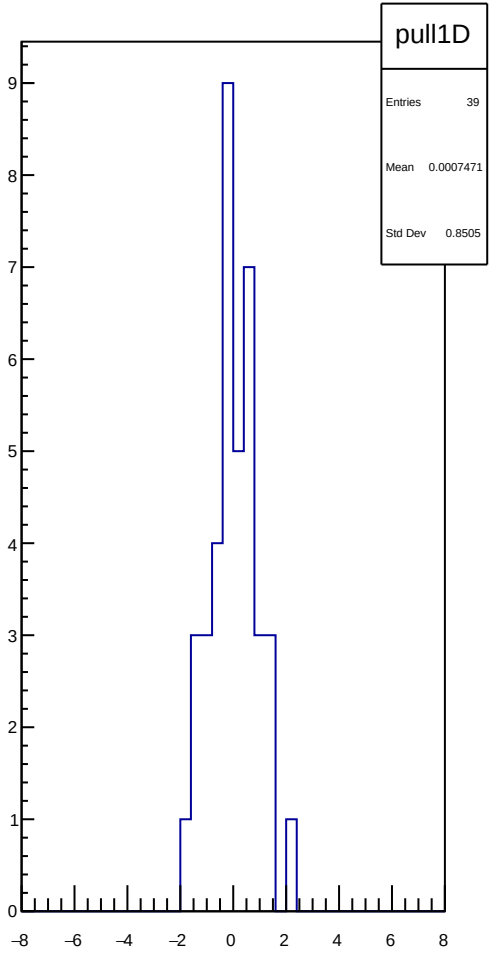

dit_asym_atr2_rms vs run
χ² / ndf 325.9 / 38
p0 2707 ± 3.083
2900
2850
2800
2750
2700
2650
2600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

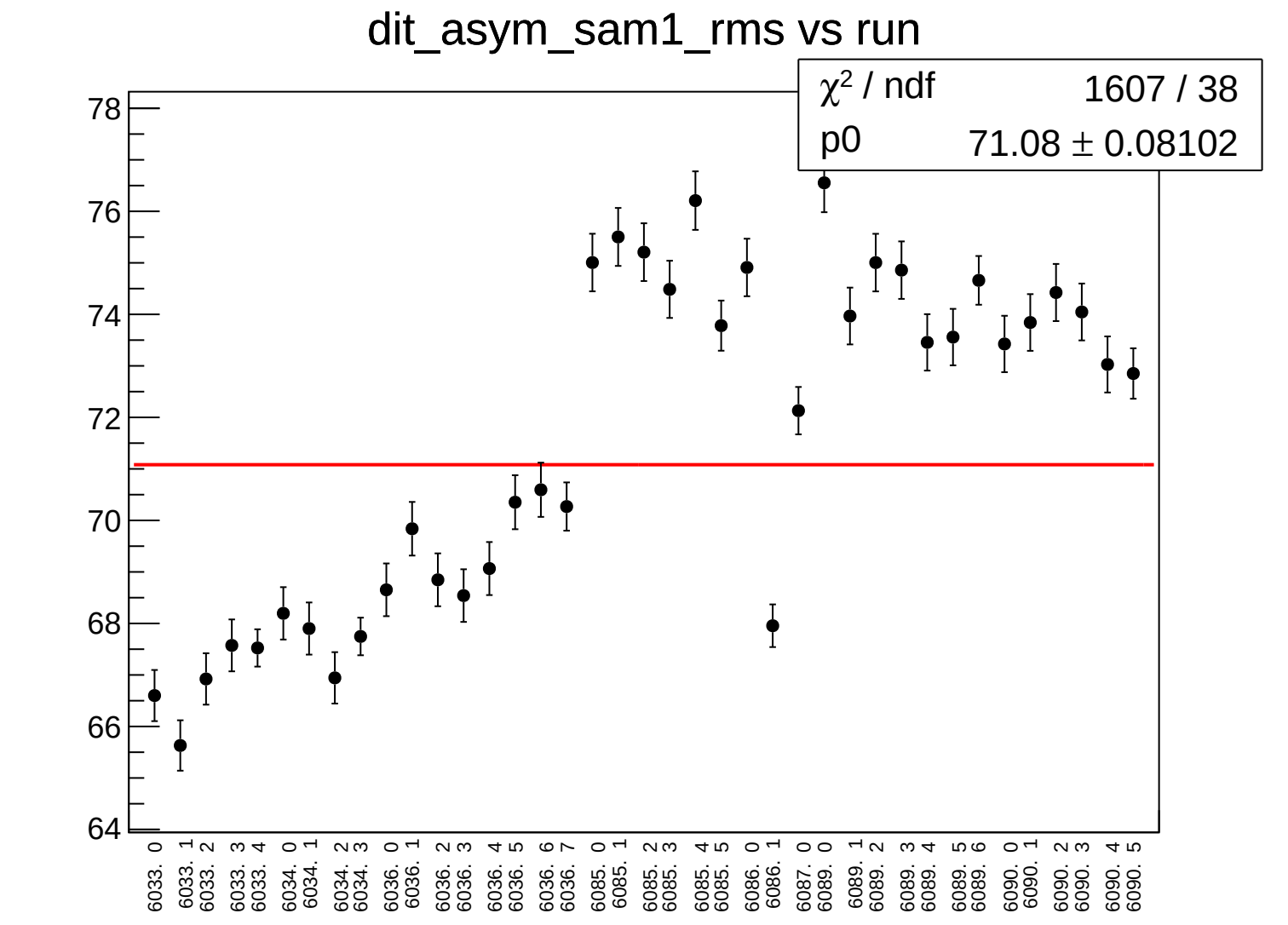

asym_atr2_mean vs run
×10^3
χ² / ndf 31.84 / 38
p0 −3994 ± 1.33e+04
400
300
200
100
0
−100
−200
−300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1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

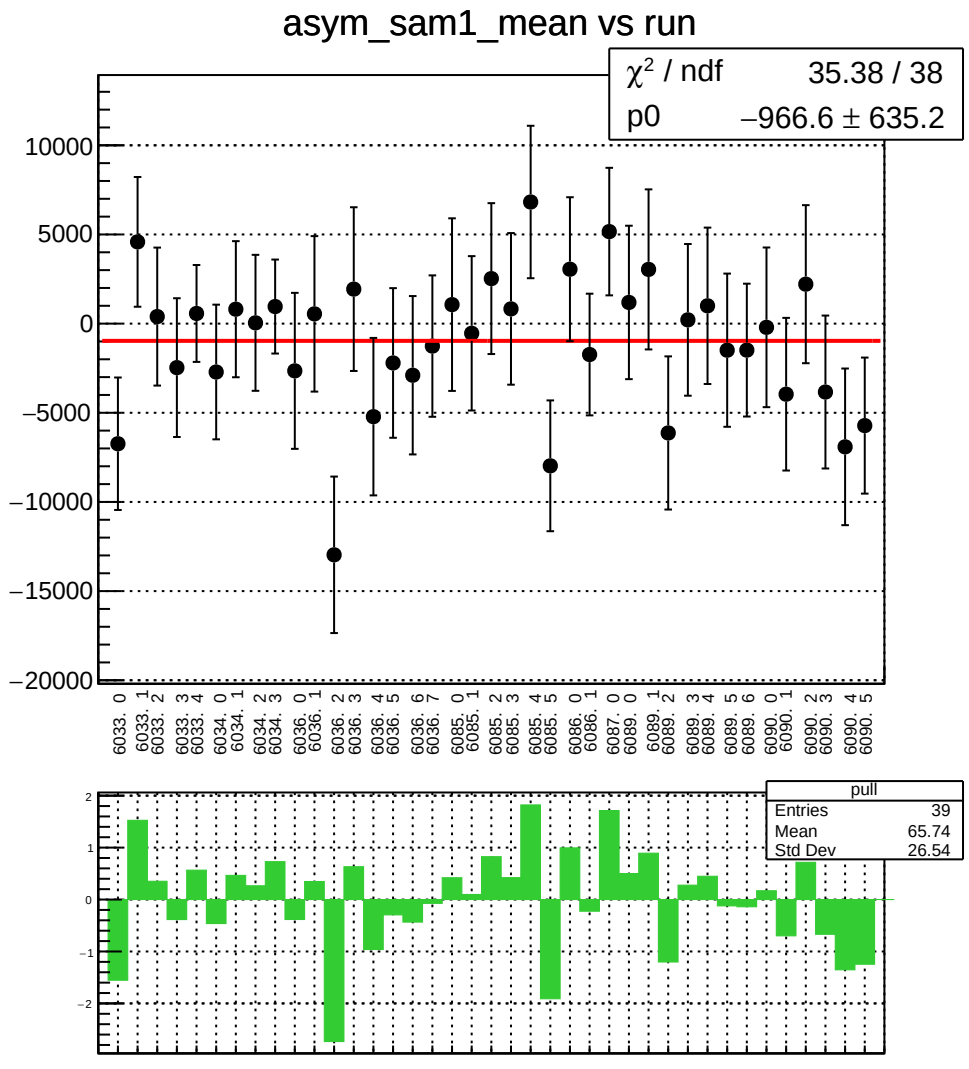

pull1D
Entries 39
Mean 0.03966
Std Dev 0.9027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

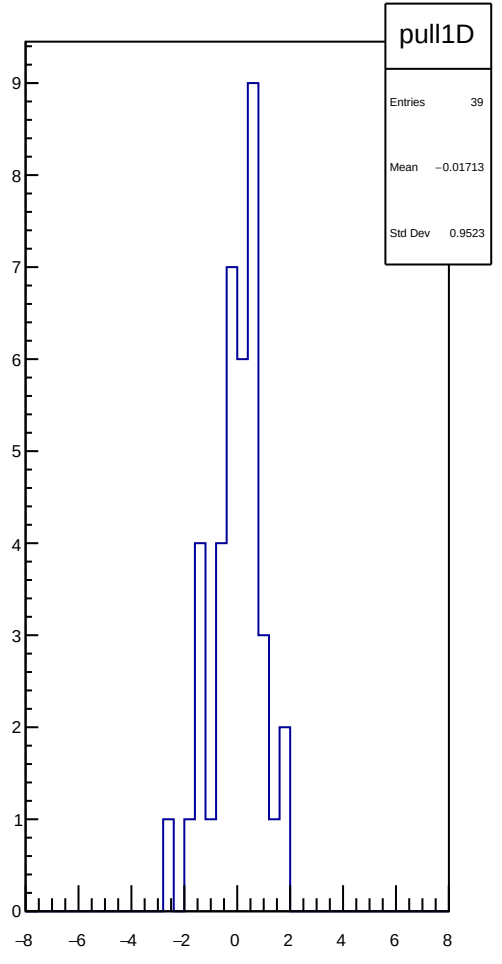

asym_atr2_rms vs run
χ² / ndf 5919 / 38
p0 8228 ± 9.405
10500
10000
9500
9000
8500
8000
7500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

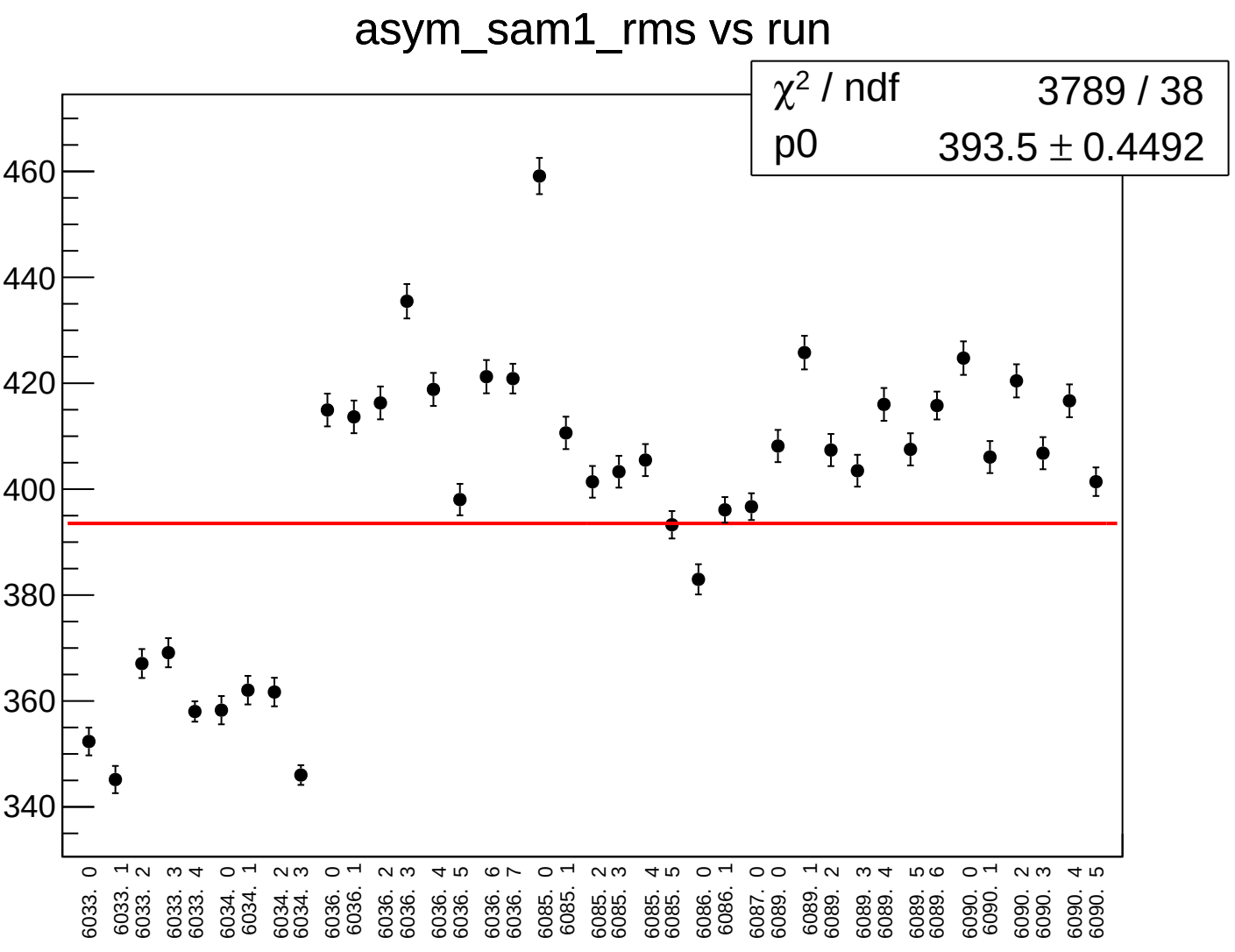

dit_asym_sam1_mean vs run
χ² / ndf 28.21 / 38
p0 107.5 ± 114.6
2000
1000
0
−1000
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −917.5
Std Dev 948
2
1.5
1
0.5
0
−0.5
−1
−1.5

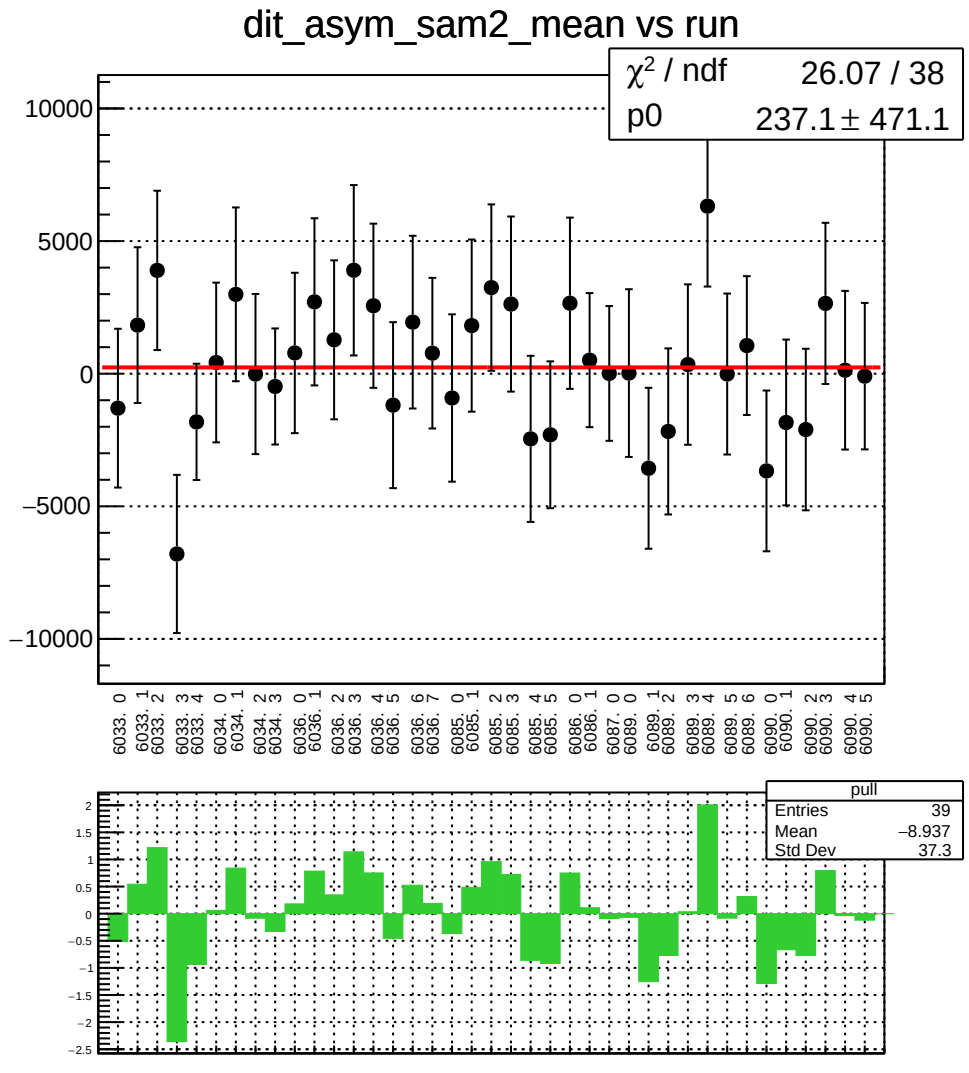

pull1D
Entries 39
Mean 0.0007471
Std Dev 0.8505
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

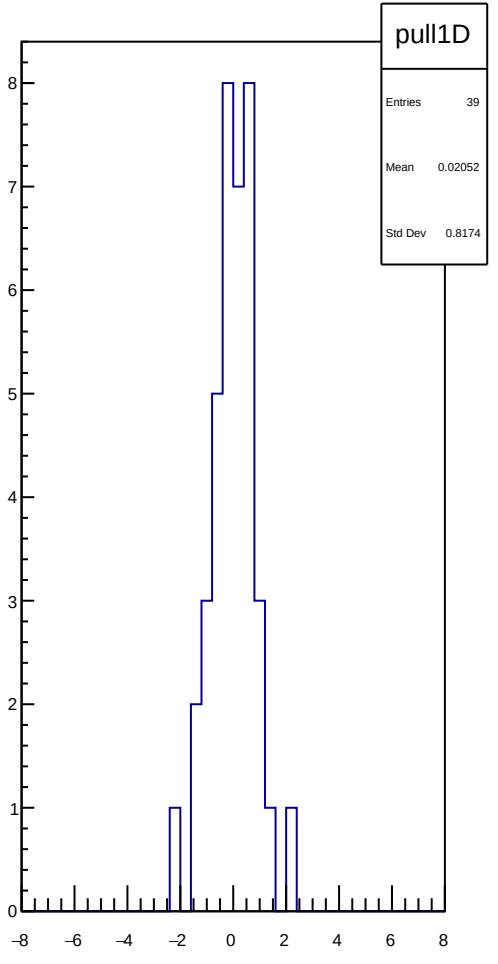

dit_asym_sam1_rms vs run
χ² / ndf 1607 / 38
p0 71.08 ± 0.08102
78
76
74
72
70
68
66
64
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

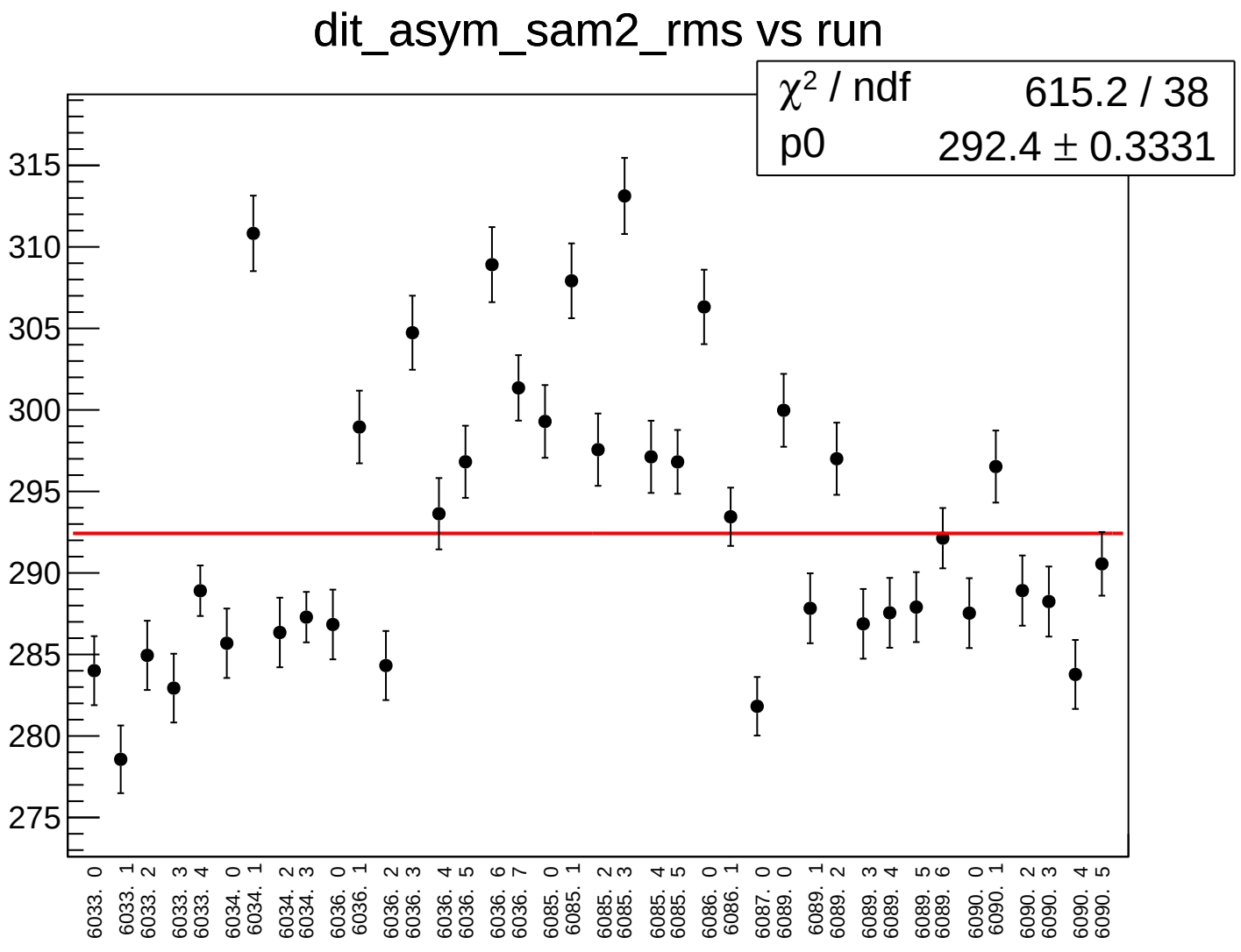

asym_sam1_mean vs run
χ² / ndf 35.38 / 38
p0 −966.6 ± 635.2
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

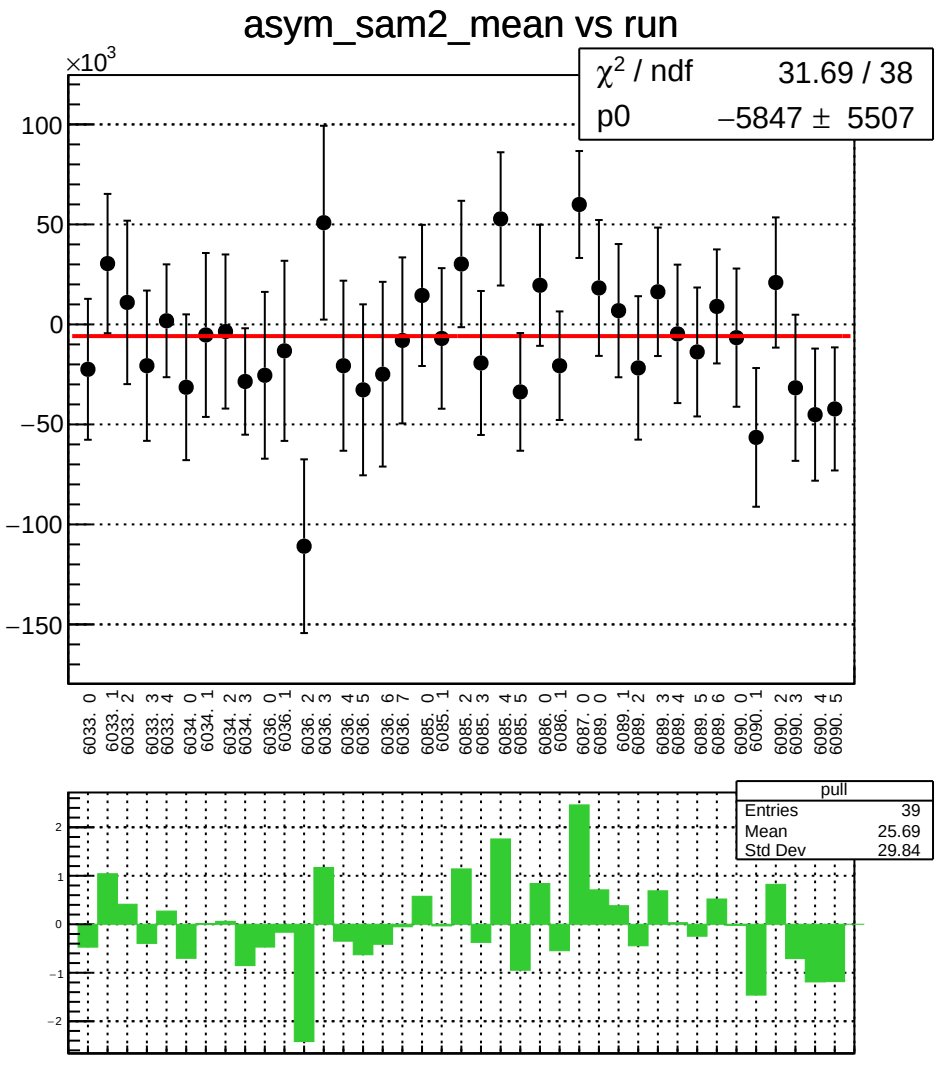

pull1D
Entries 39
Mean −0.01713
Std Dev 0.9523
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

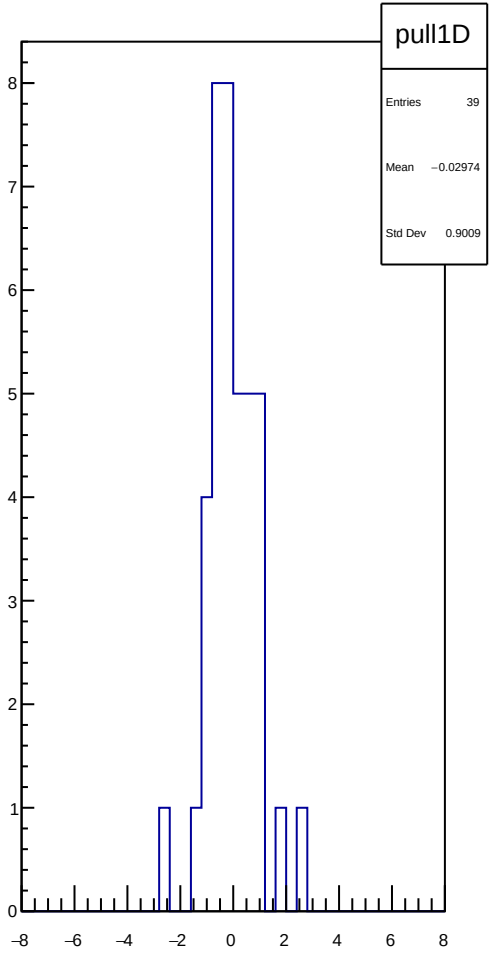

asym_sam1_rms vs run
χ² / ndf 3789 / 38
p0 393.5 ± 0.4492
460
440
420
400
380
360
340
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0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

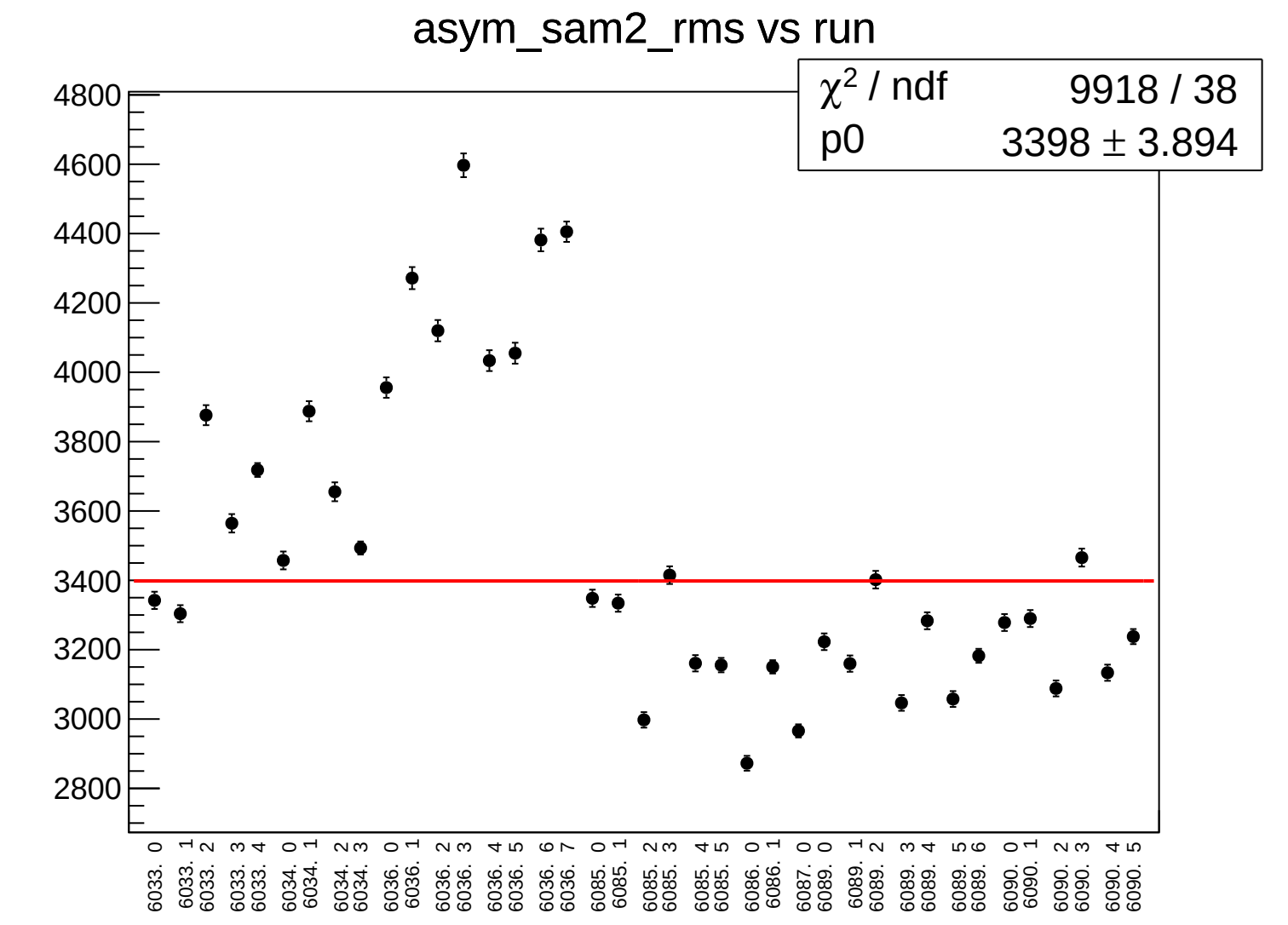

dit_asym_sam2_mean vs run
χ^2 / ndf 26.07 / 38
p0 237.1 ± 471.1
10000
5000
0
−5000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −8.937
Std Dev 37.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

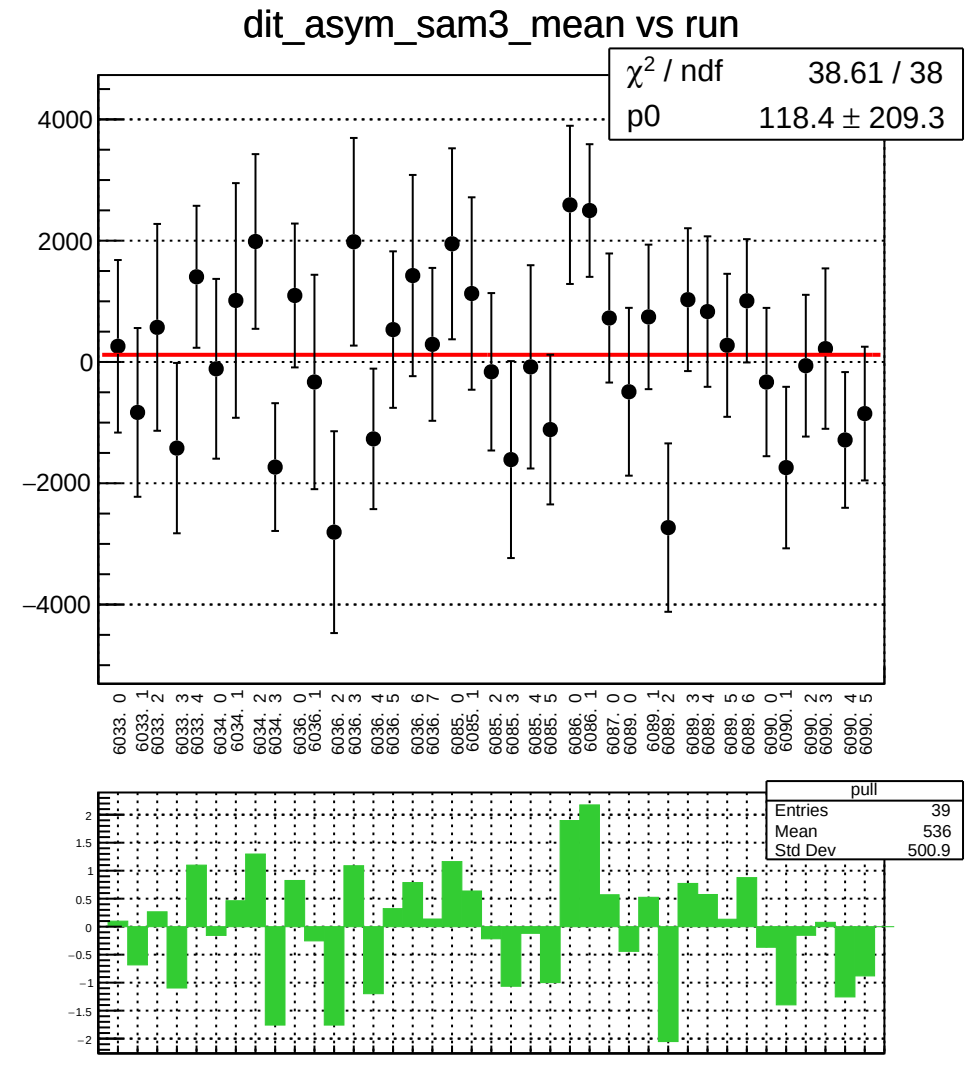

pull1D
Entries 39
Mean 0.02052
Std Dev 0.8174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

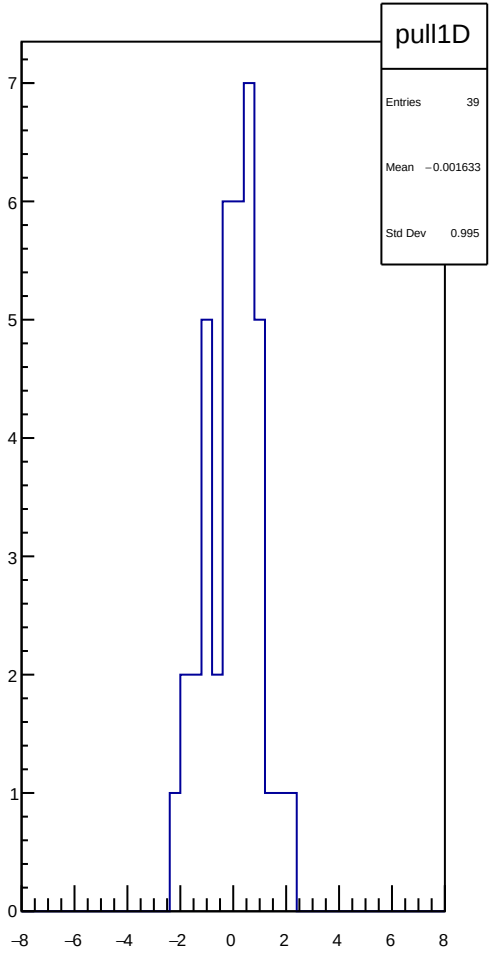

dit_asym_sam2_rms vs run
χ² / ndf 615.2 / 38
p0 292.4 ± 0.3331
315
310
305
300
295
290
285
280
275
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

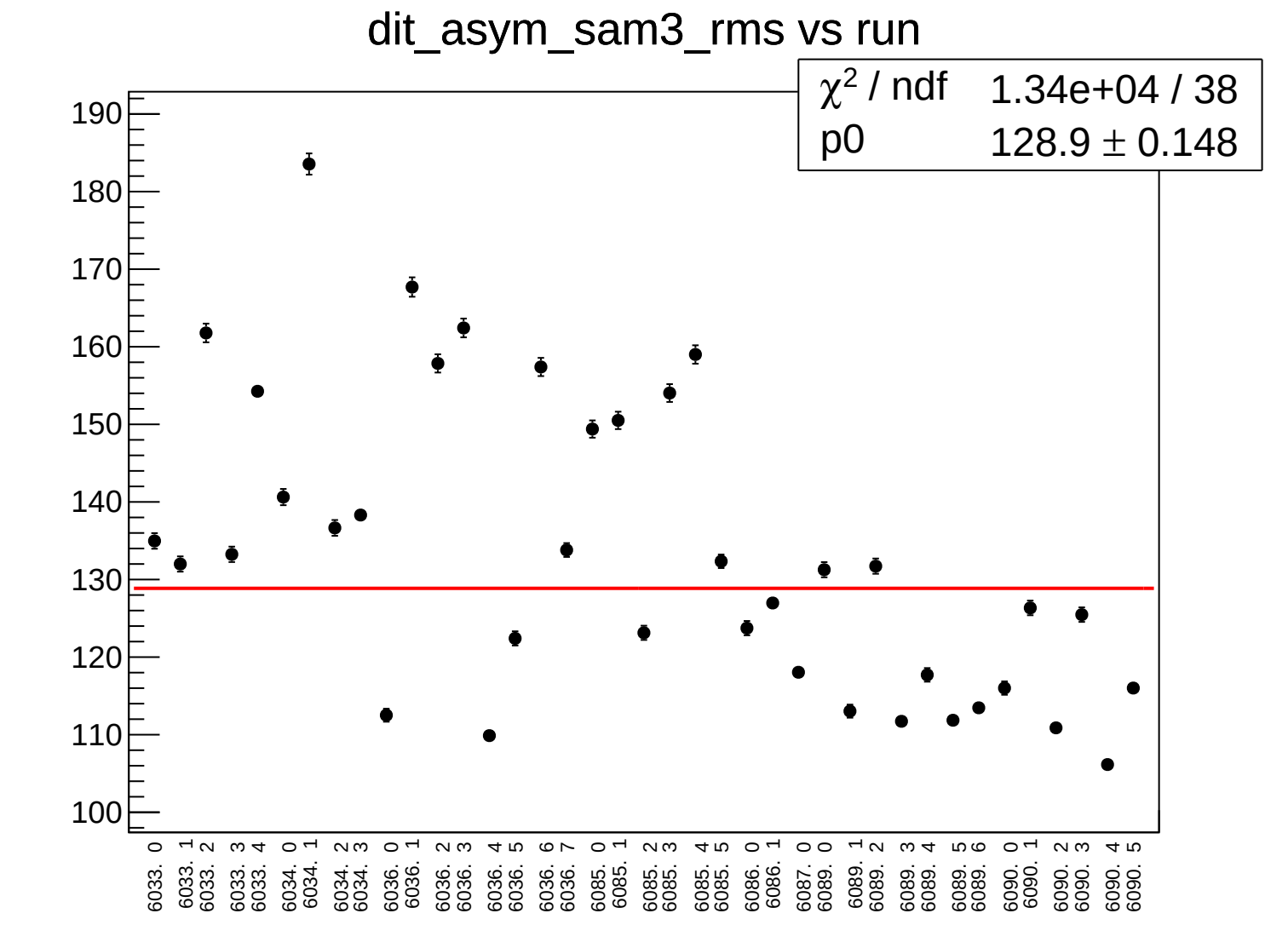

asym_sam2_mean vs run
×10^3
χ² / ndf 31.69 / 38
p0 −5847 ± 5507
100
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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

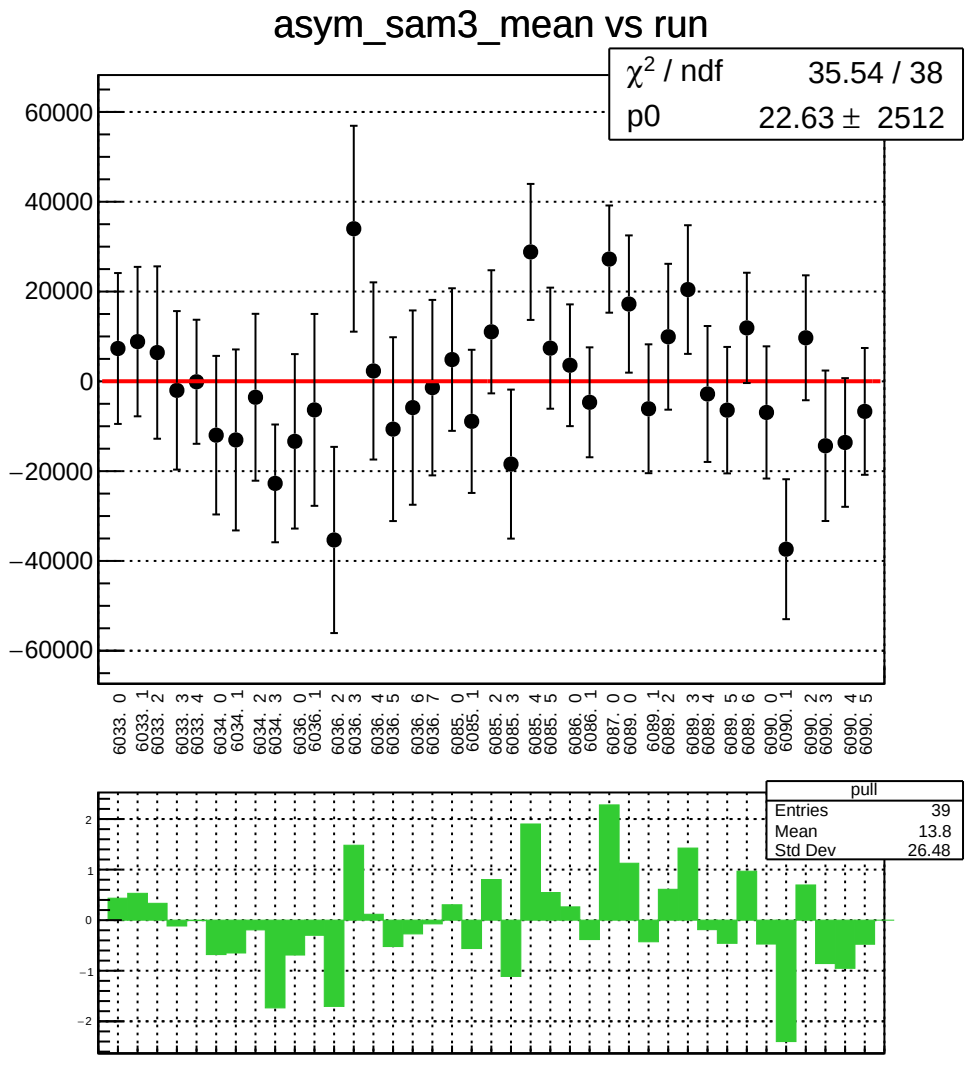

pull1D
Entries 39
Mean −0.02974
Std Dev 0.9009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

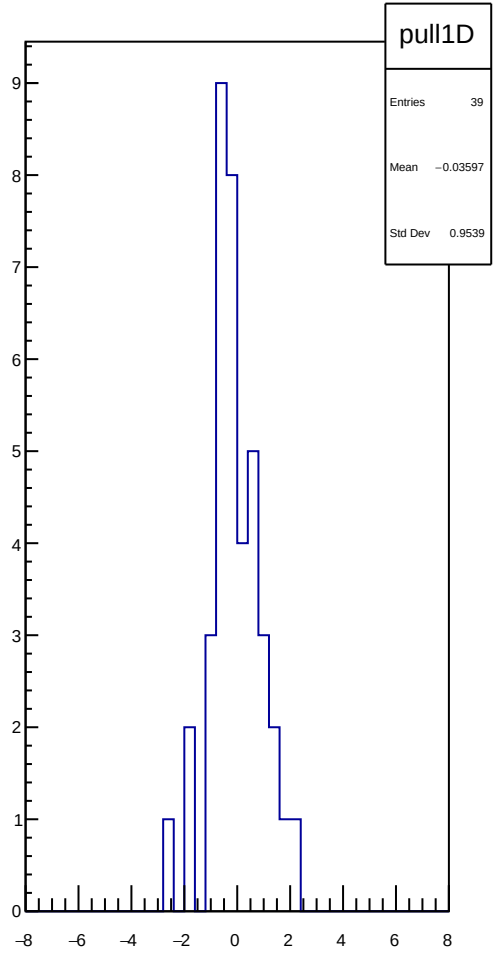

asym_sam2_rms vs run
χ² / ndf 9918 / 38
p0 3398 ± 3.894
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086.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

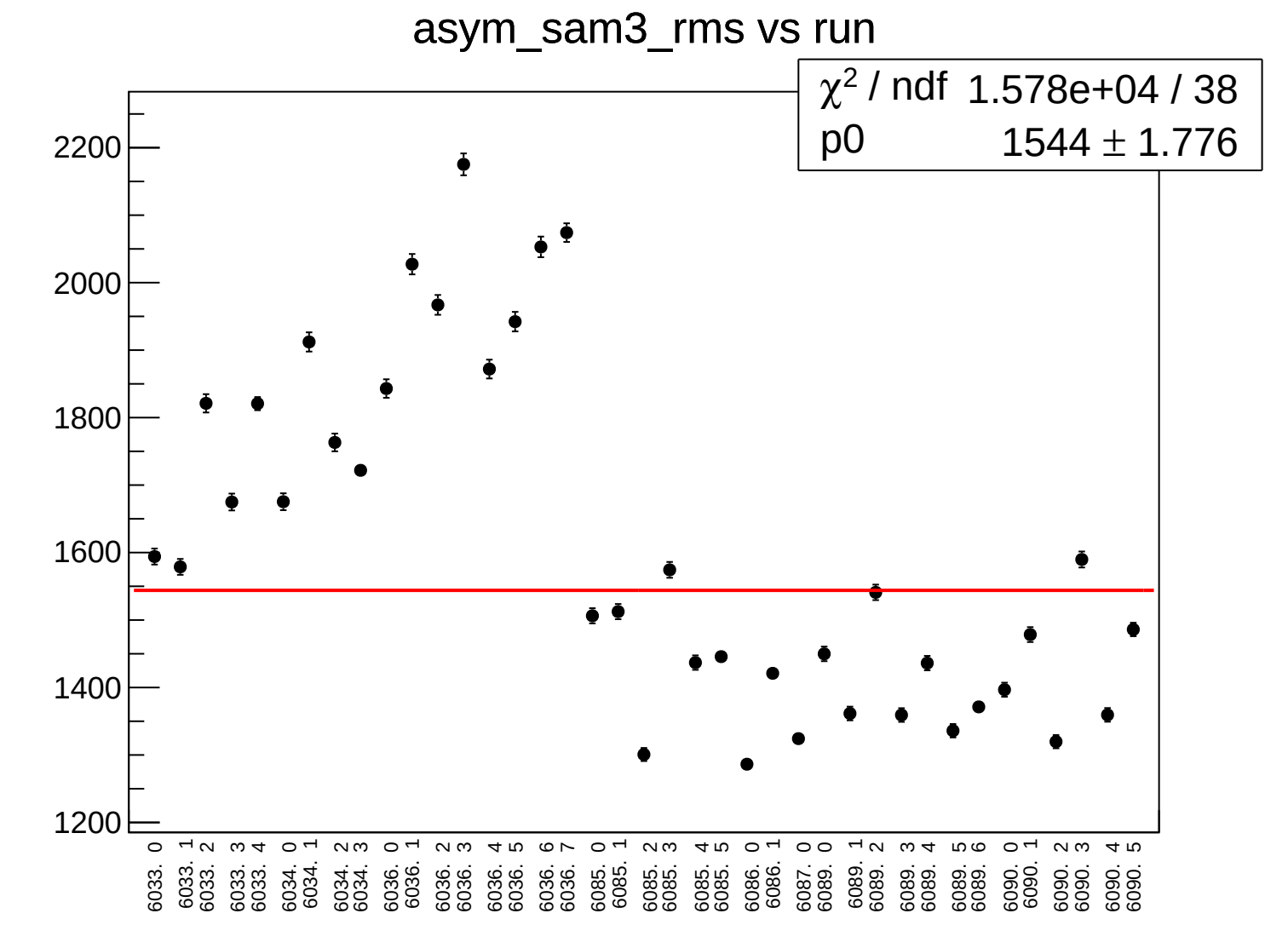

dit_asym_sam3_mean vs run
χ² / ndf 38.61 / 38
p0 118.4 ± 209.3
4000
2000
0
−2000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 536
Std Dev 500.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

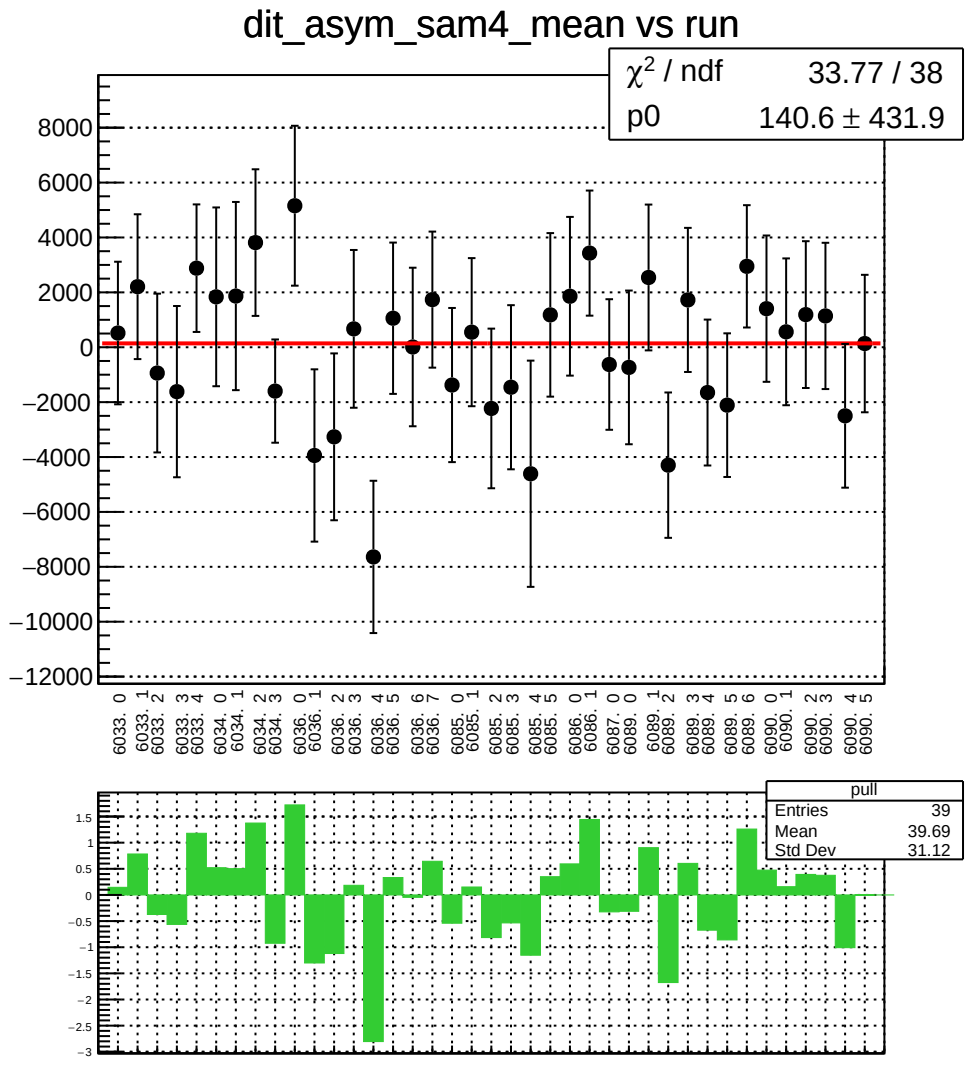

pull1D
Entries 39
Mean −0.001633
Std Dev 0.995
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

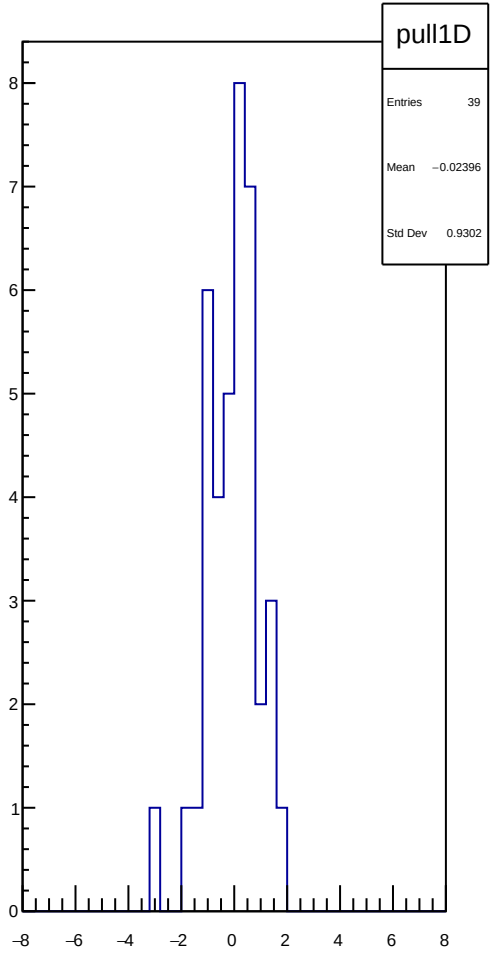

dit_asym_sam3_rms vs run
χ² / ndf 1.34e+04 / 38
p0 128.9 ± 0.148
190
180
170
160
150
140
130
120
110
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

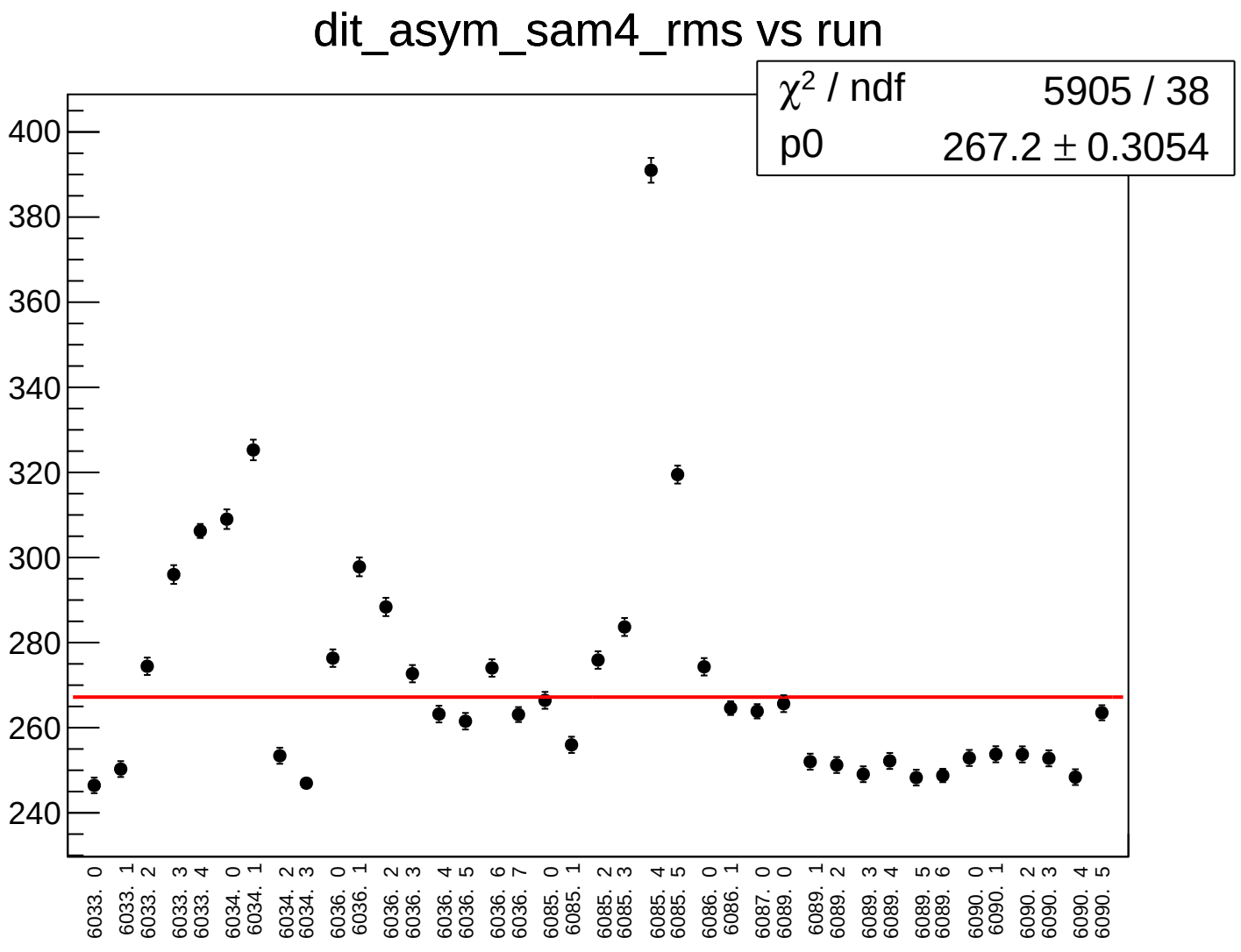

asym_sam3_mean vs run
χ² / ndf 35.54 / 38
p0 22.63 ± 2512
60000
40000
20000
0
−20000
−40000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

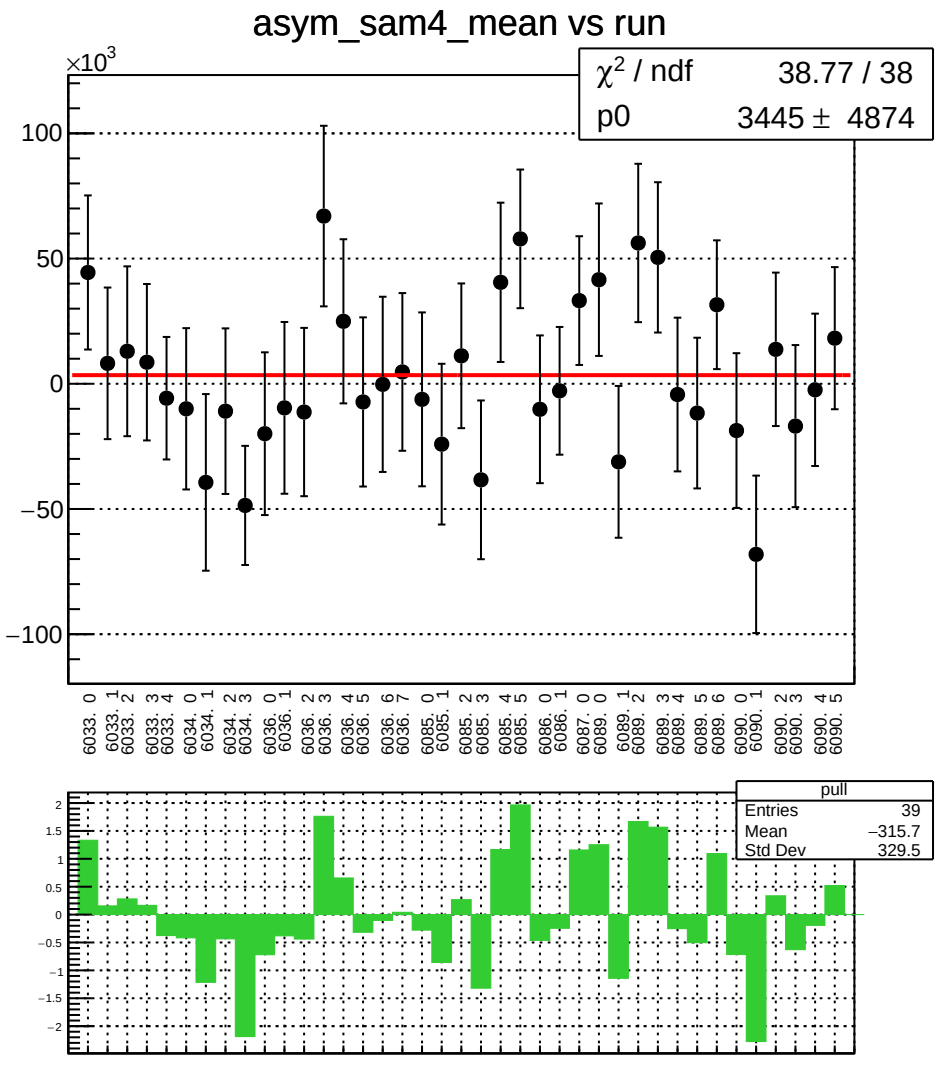

pull1D
Entries 39
Mean −0.03597
Std Dev 0.9539
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

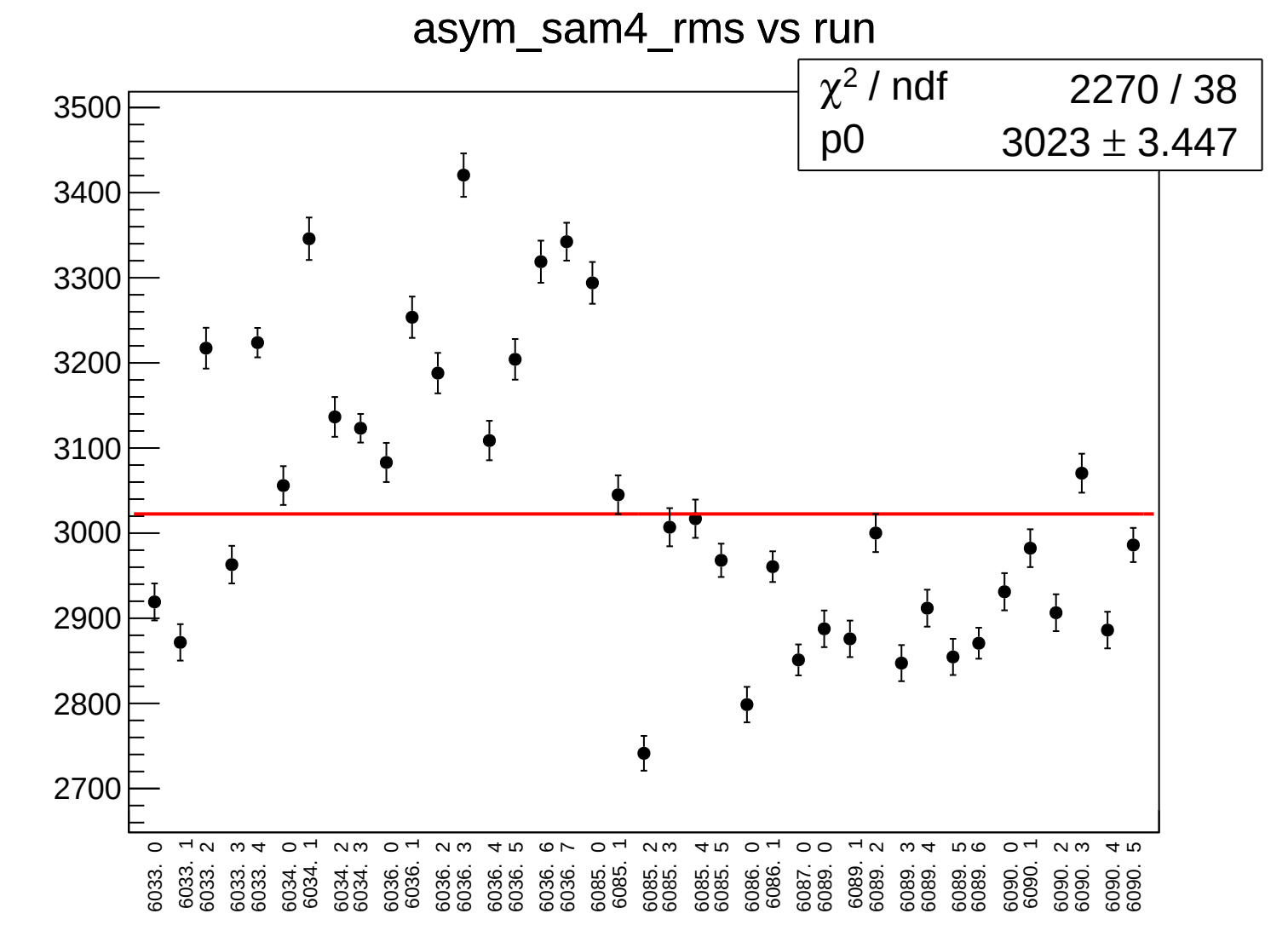

asym_sam3_rms vs run
χ² / ndf 1.578e+04 / 38
p0 1544 ± 1.776
2200
2000
1800
1600
1400
1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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

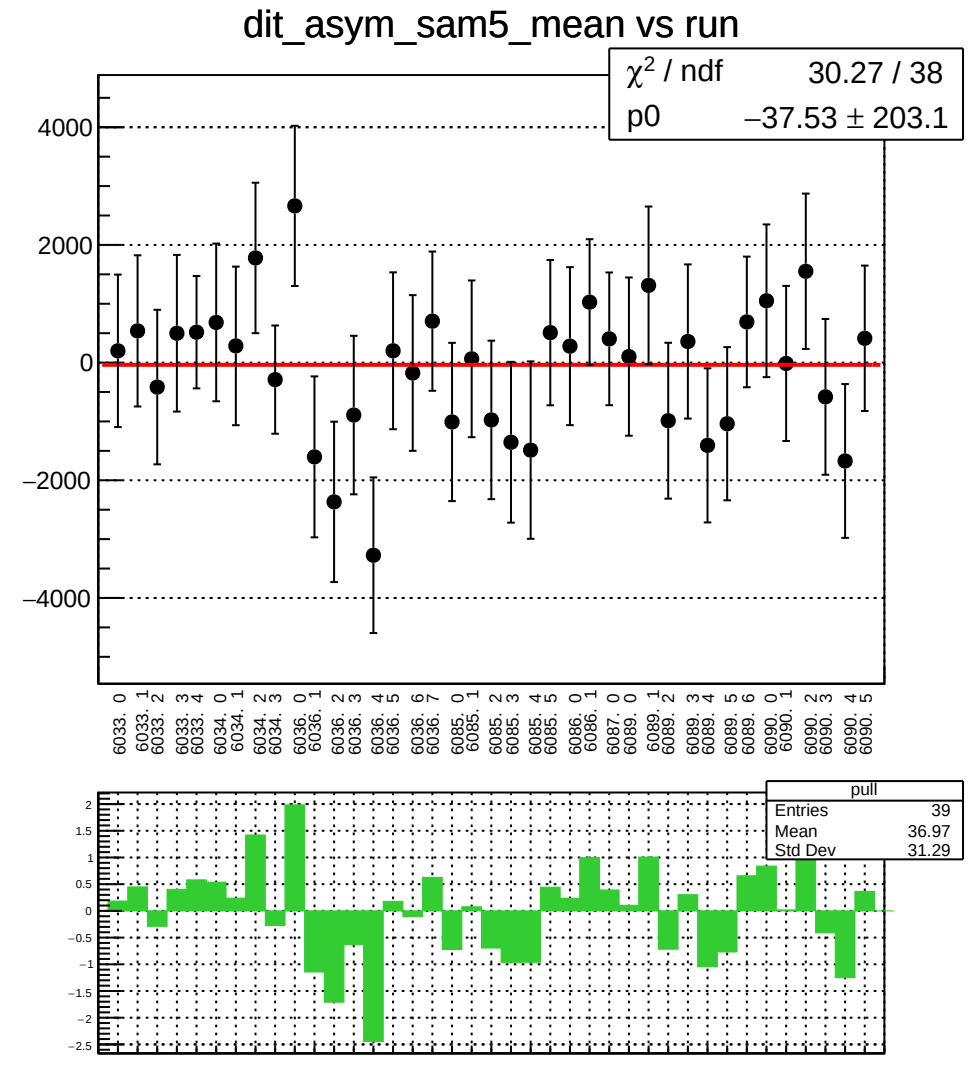

dit_asym_sam4_mean vs run
χ² / ndf 33.77 / 38
p0 140.6 ± 431.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 39.69
Std Dev 31.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

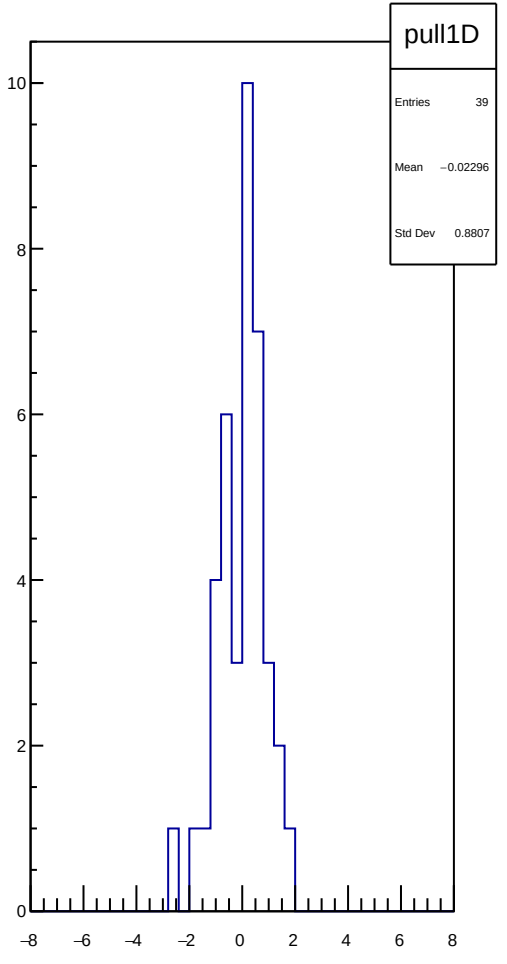

pull1D
Entries 39
Mean −0.02396
Std Dev 0.9302
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

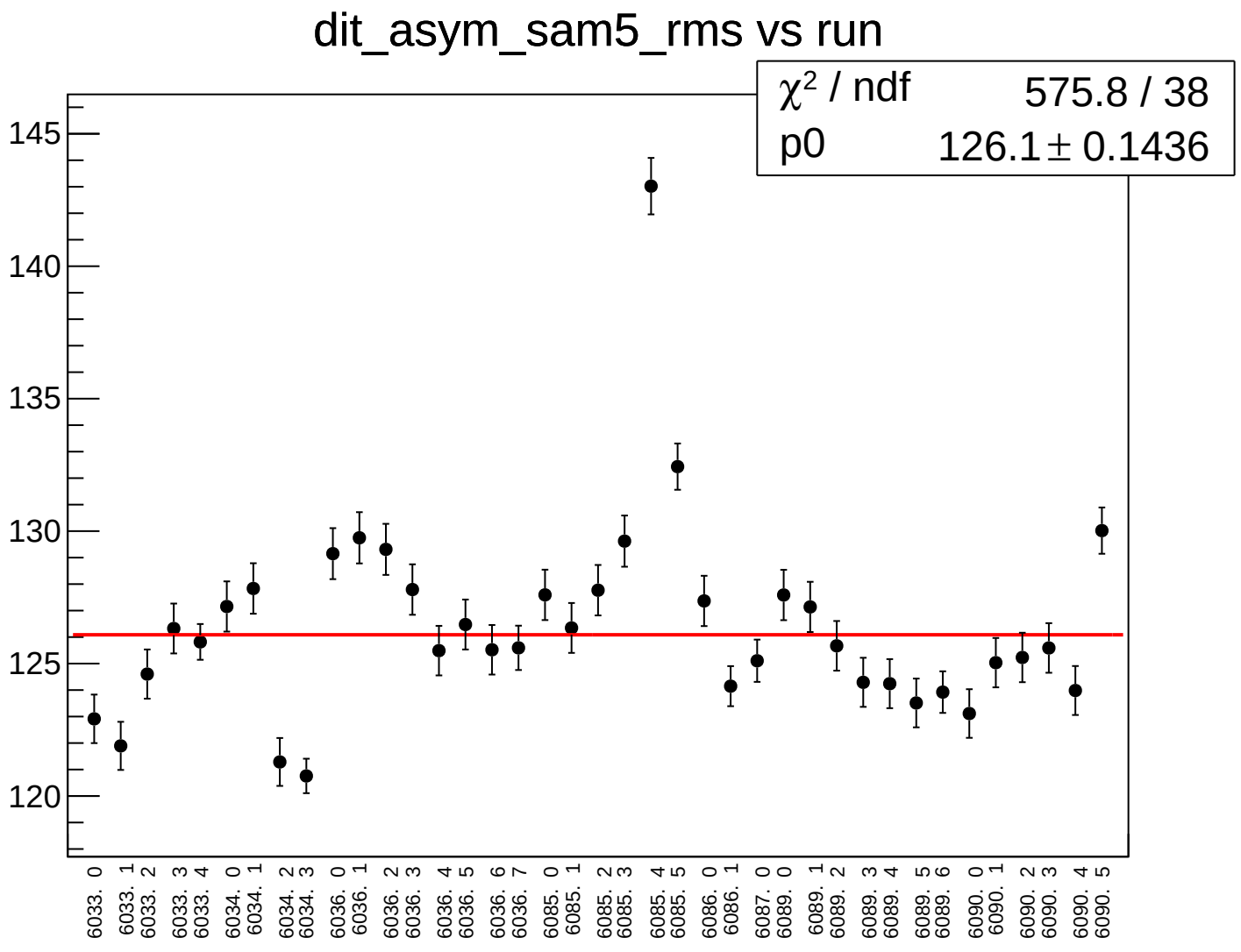

dit_asym_sam4_rms vs run
χ² / ndf 5905 / 38
p0 267.2 ± 0.3054
400
380
360
340
320
300
280
260
240
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

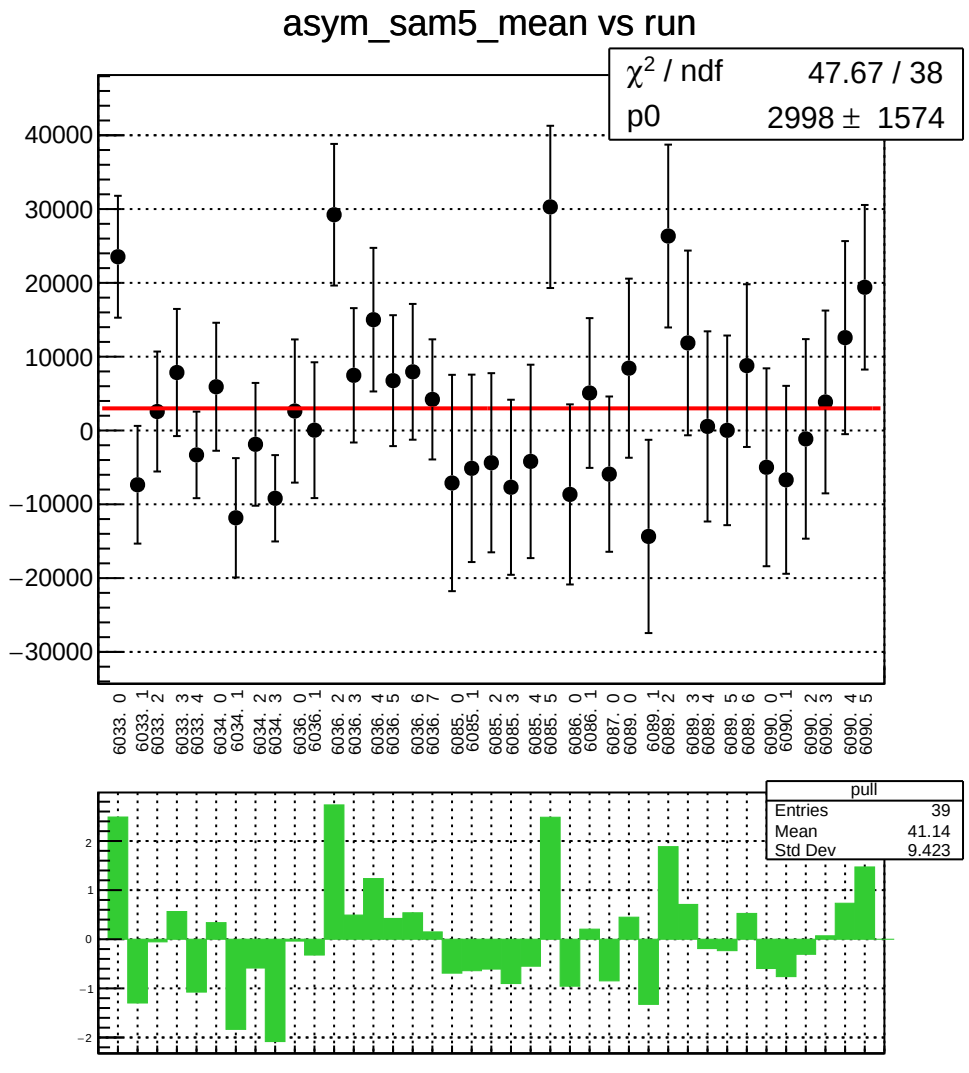

asym_sam4_mean vs run
×10^3
χ^2 / ndf 38.77 / 38
p0 3445 ± 4874
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089.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

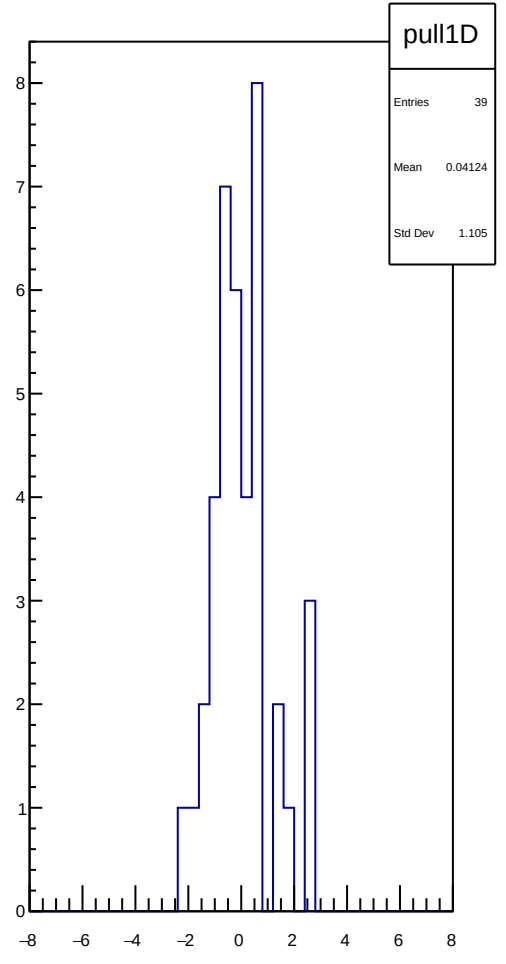

asym_sam4_rms vs run
χ² / ndf 2270 / 38
p0 3023 ± 3.447
3500
3400
3300
3200
3100
3000
2900
2800
2700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1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

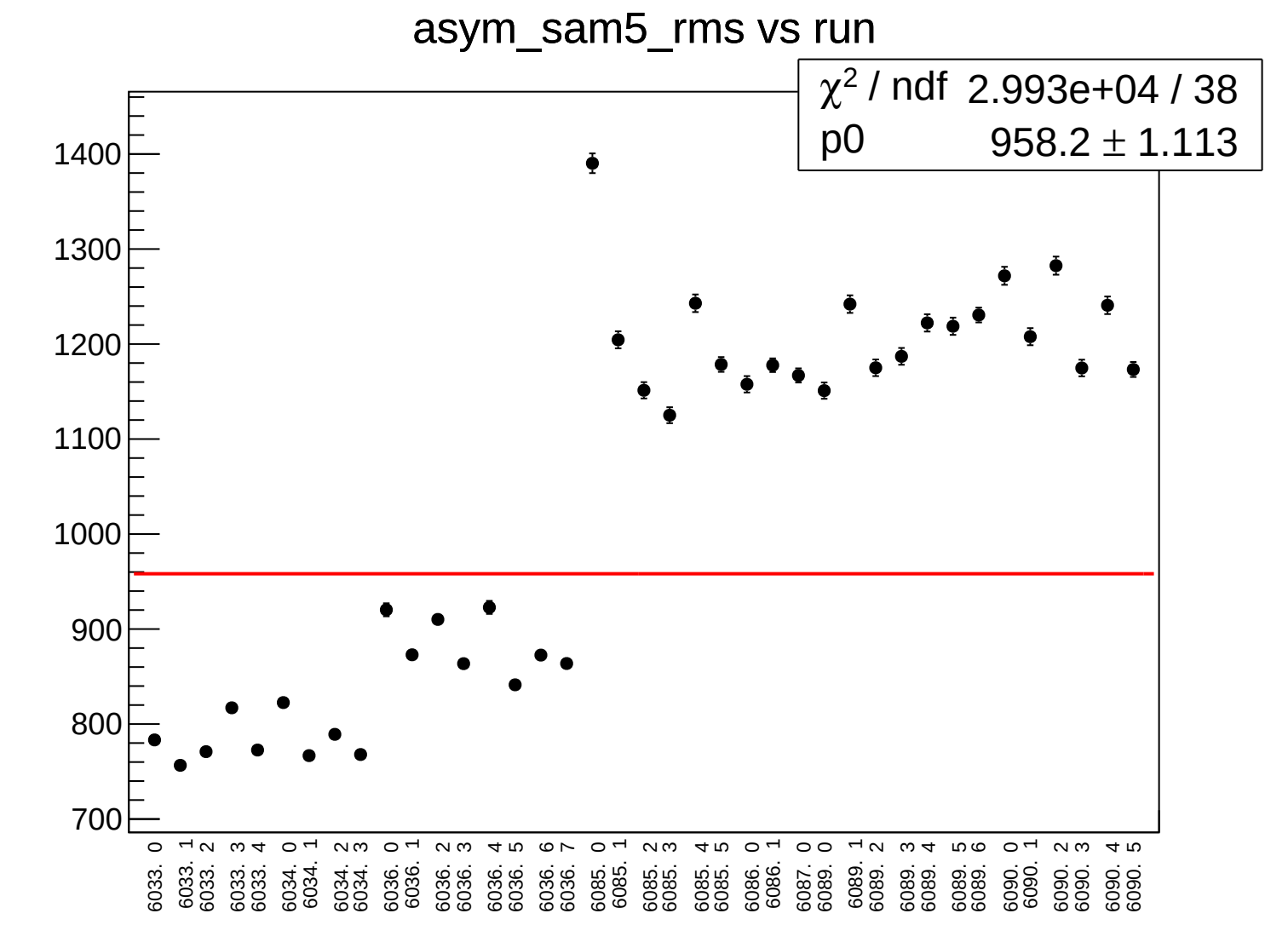

dit_asym_sam5_mean vs run
χ² / ndf 30.27 / 38
p0 −37.53 ± 203.1
4000
2000
0
−2000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.97
Std Dev 31.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

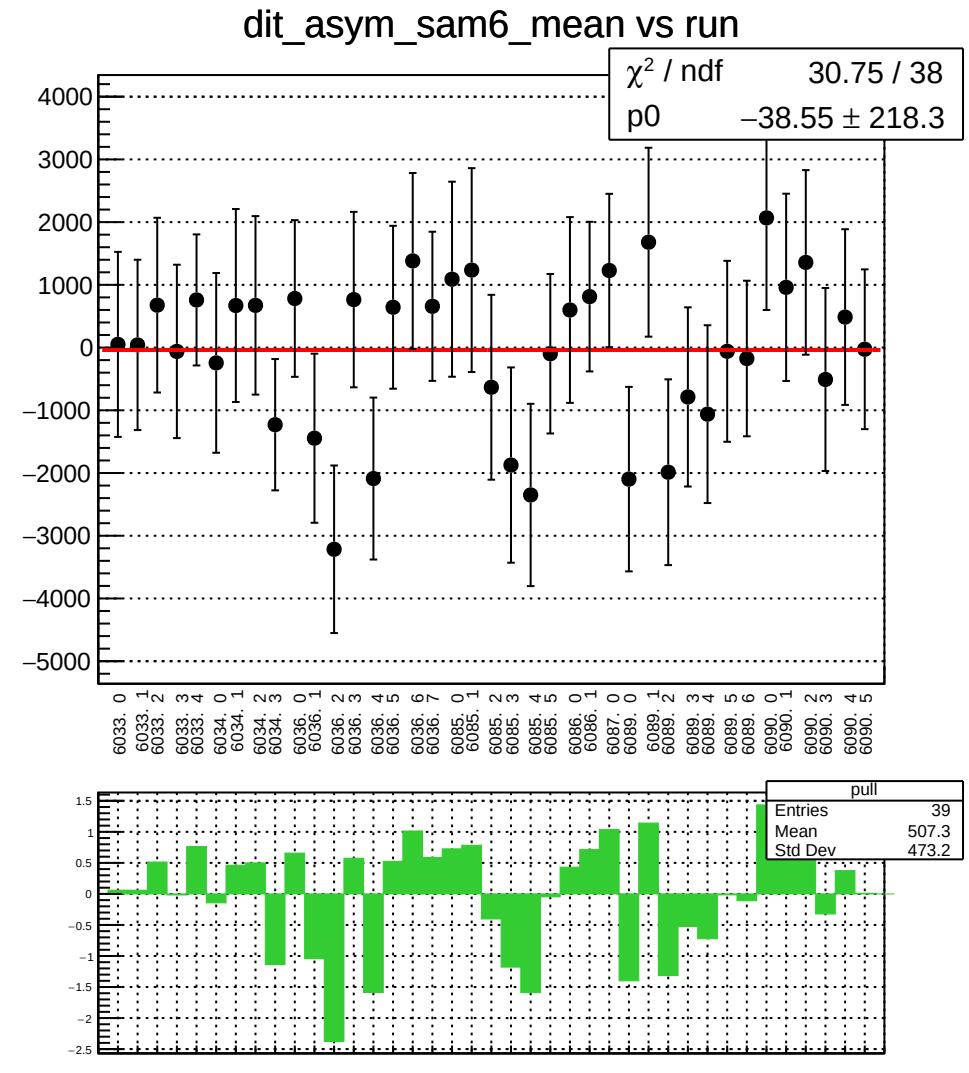

pull1D
Entries 39
Mean −0.02296
Std Dev 0.8807
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

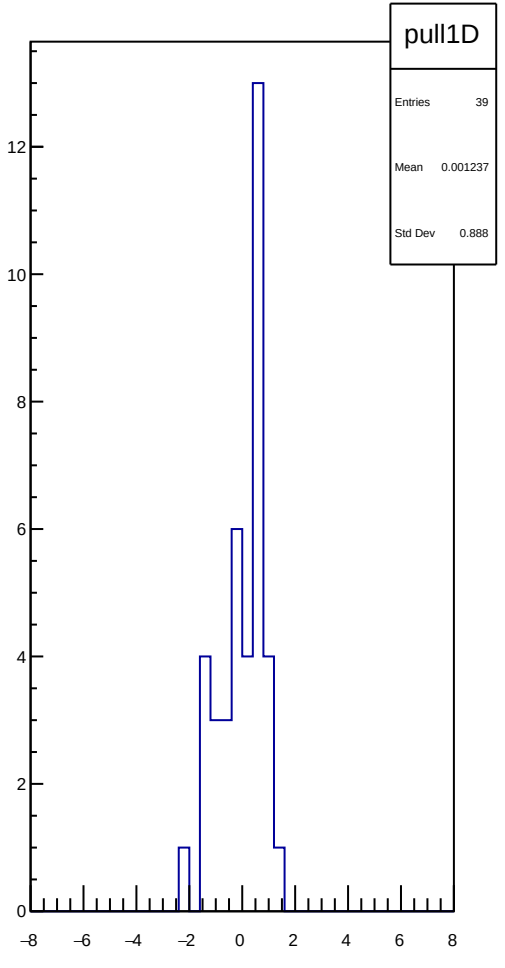

dit_asym_sam5_rms vs run
χ² / ndf 575.8 / 38
p0 126.1 ± 0.1436
145
140
135
130
125
120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

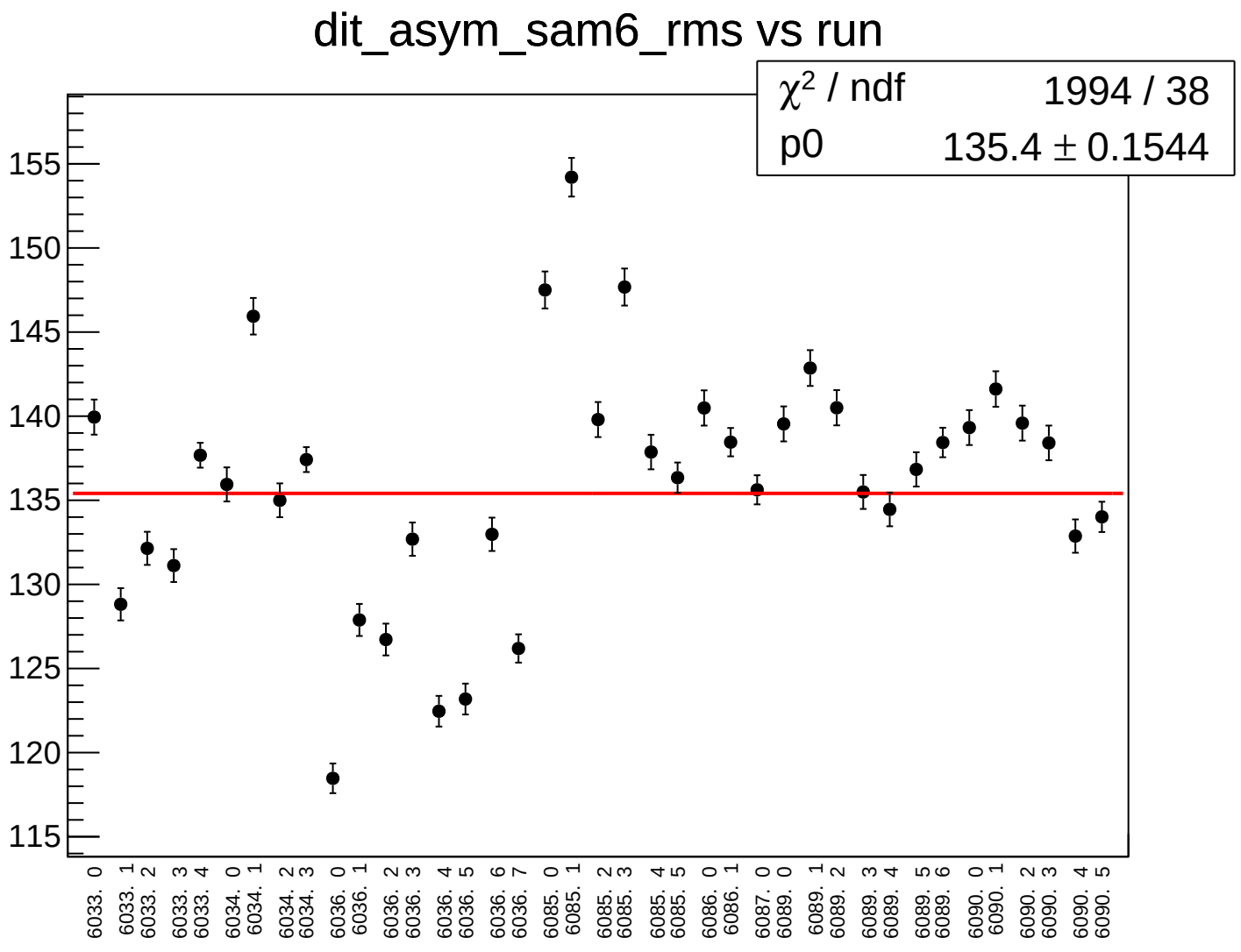

asym_sam5_mean vs run
χ² / ndf 47.67 / 38
p0 2998 ± 1574
40000
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

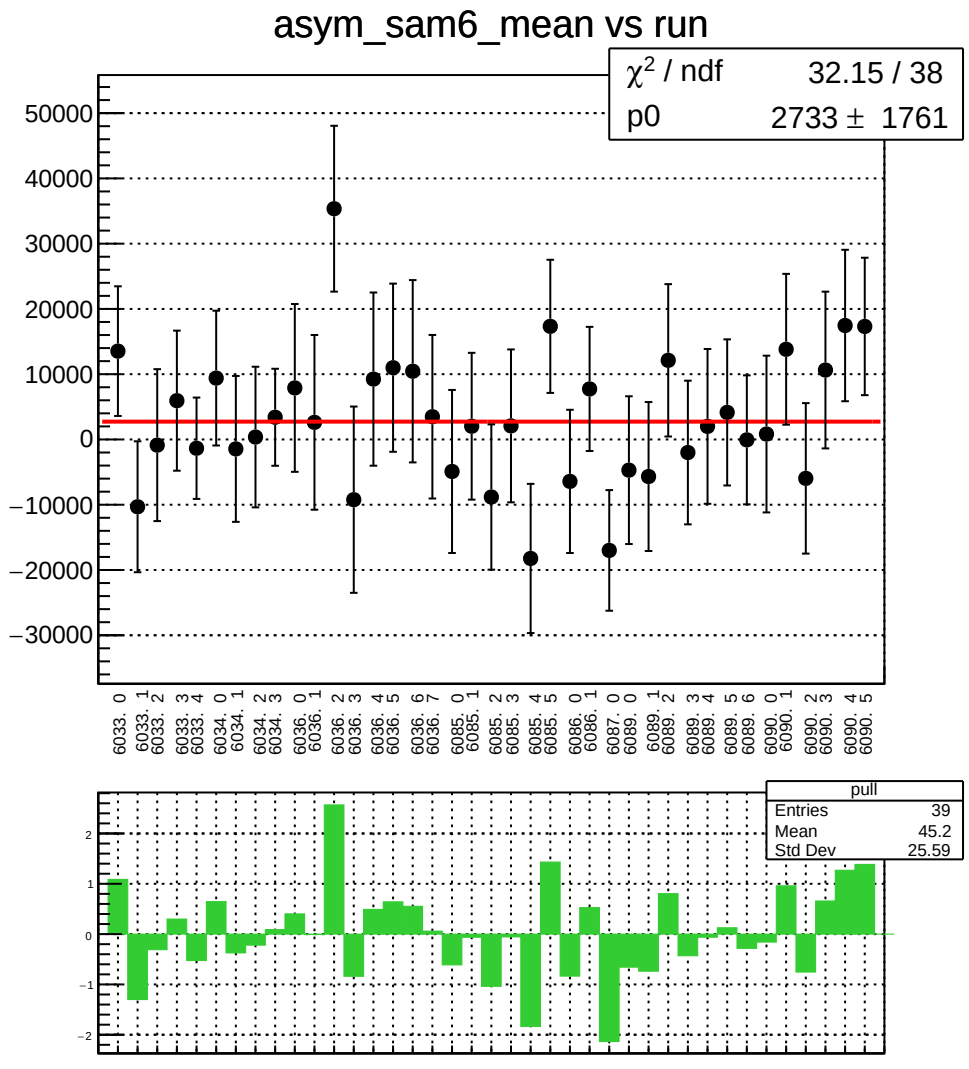

pull1D
Entries 39
Mean 0.04124
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

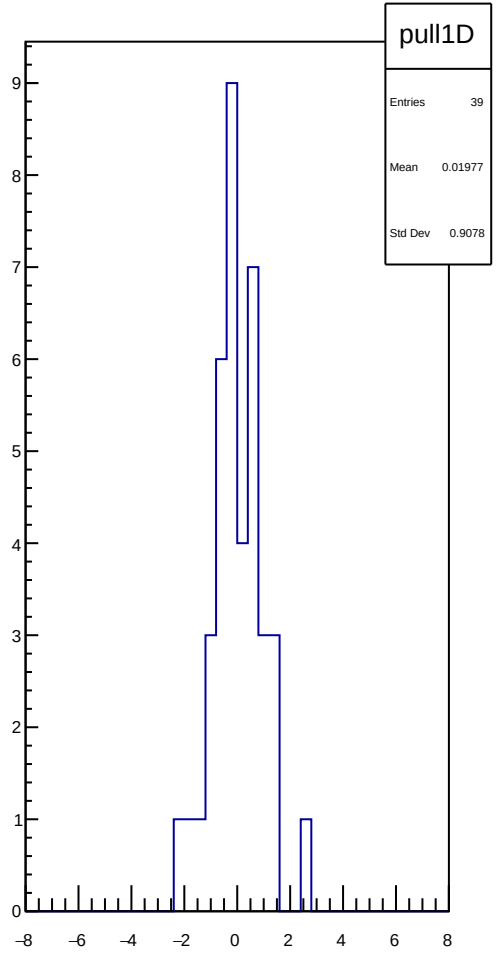

asym_sam5_rms vs run
χ² / ndf 2.993e+04 / 38
p0 958.2 ± 1.113
1400
1300
1200
1100
1000
900
800
700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

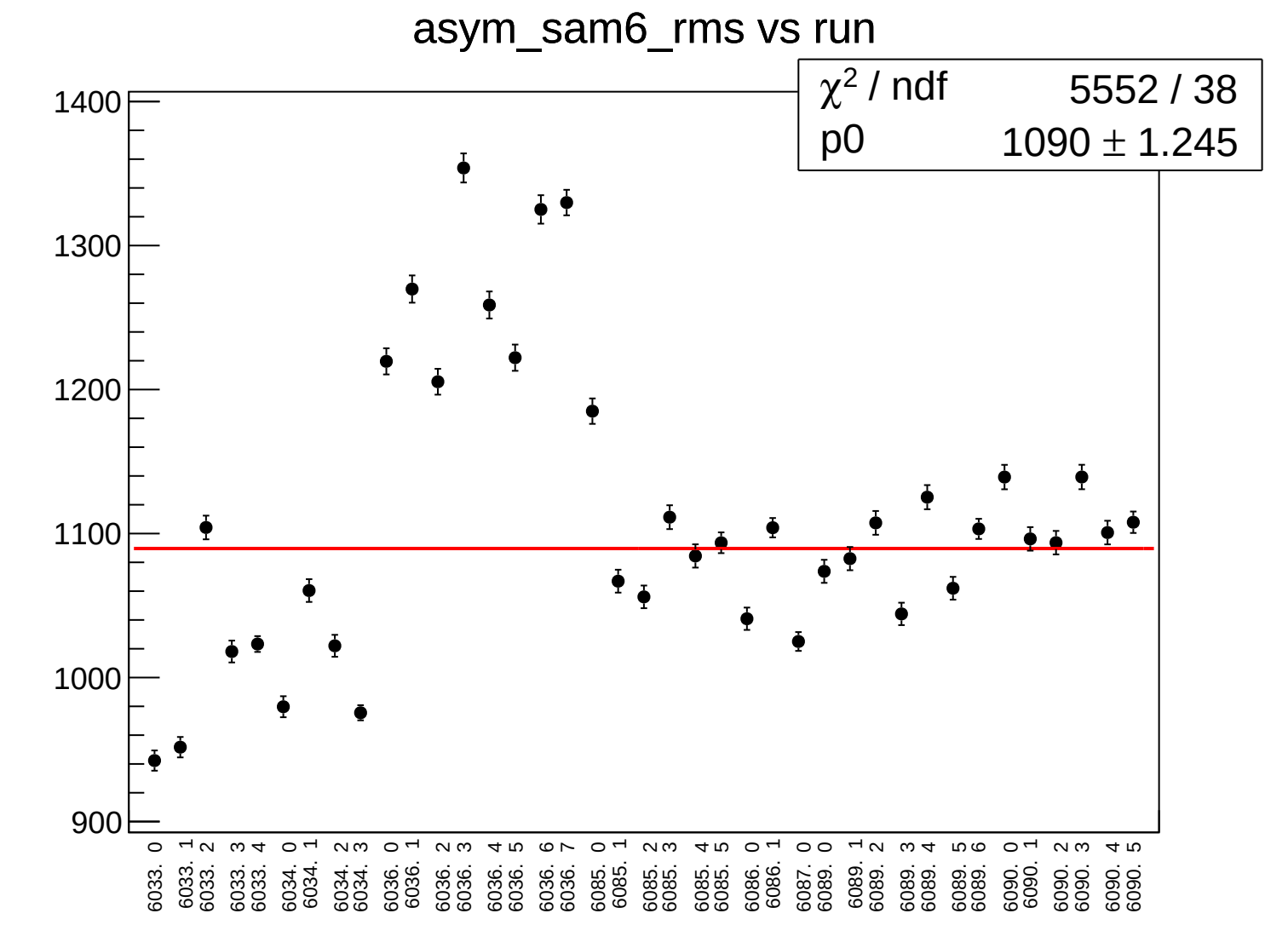

dit_asym_sam6_mean vs run
χ² / ndf 30.75 / 38
p0 −38.55 ± 218.3
pull
Entries 39
Mean 507.3
Std Dev 473.2

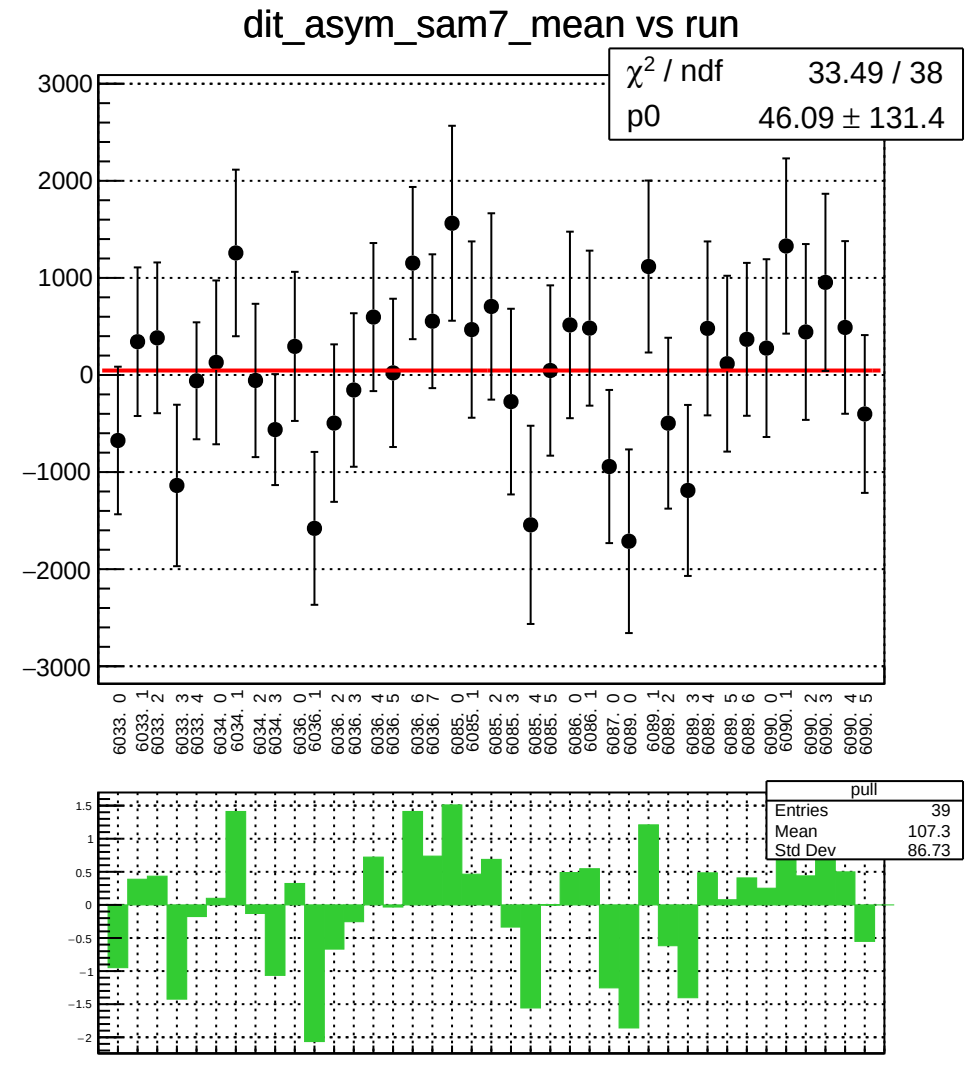

pull1D
Entries 39
Mean 0.001237
Std Dev 0.888

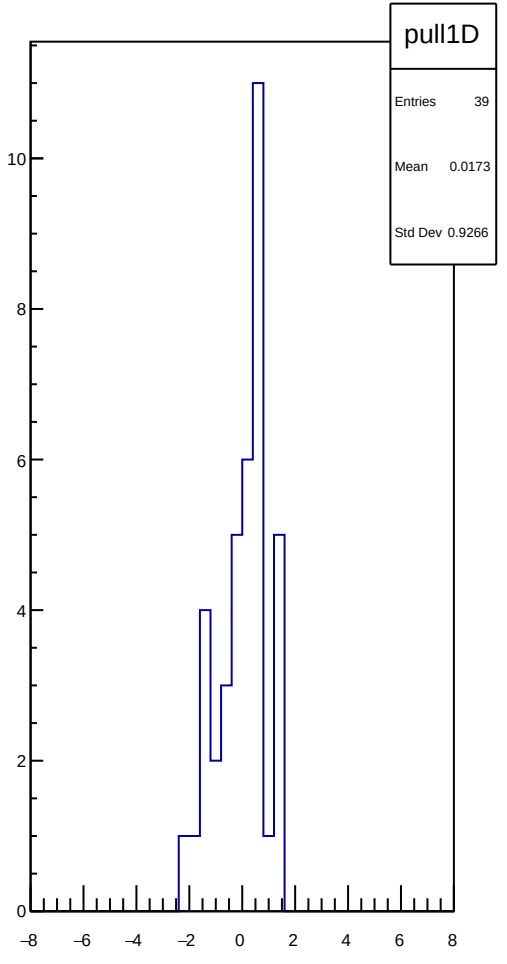

dit_asym_sam6_rms vs run
χ² / ndf 1994 / 38
p0 135.4 ± 0.1544
155
150
145
140
135
130
125
120
115
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

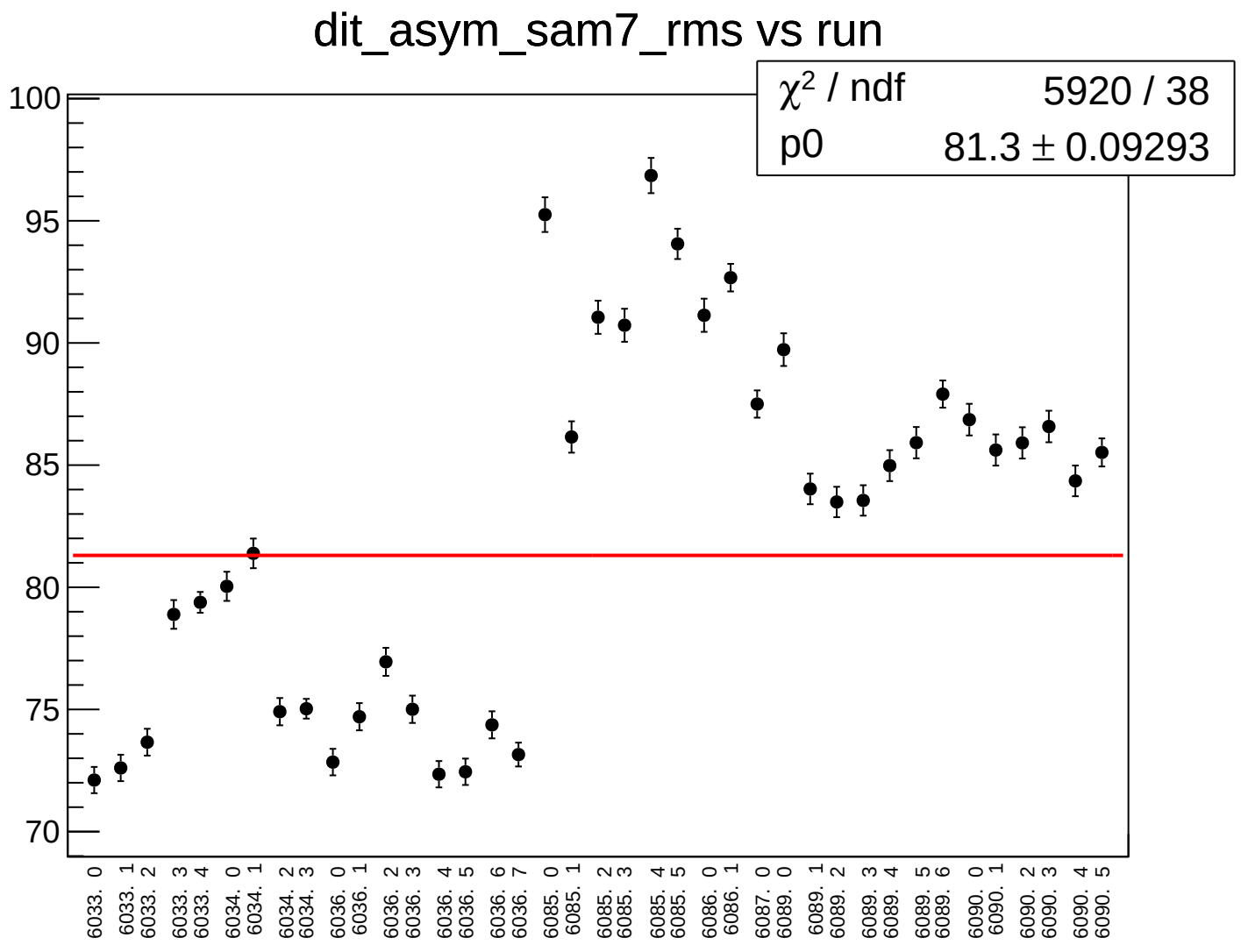

asym_sam6_mean vs run
χ² / ndf 32.15 / 38
p0 2733 ± 1761
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0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

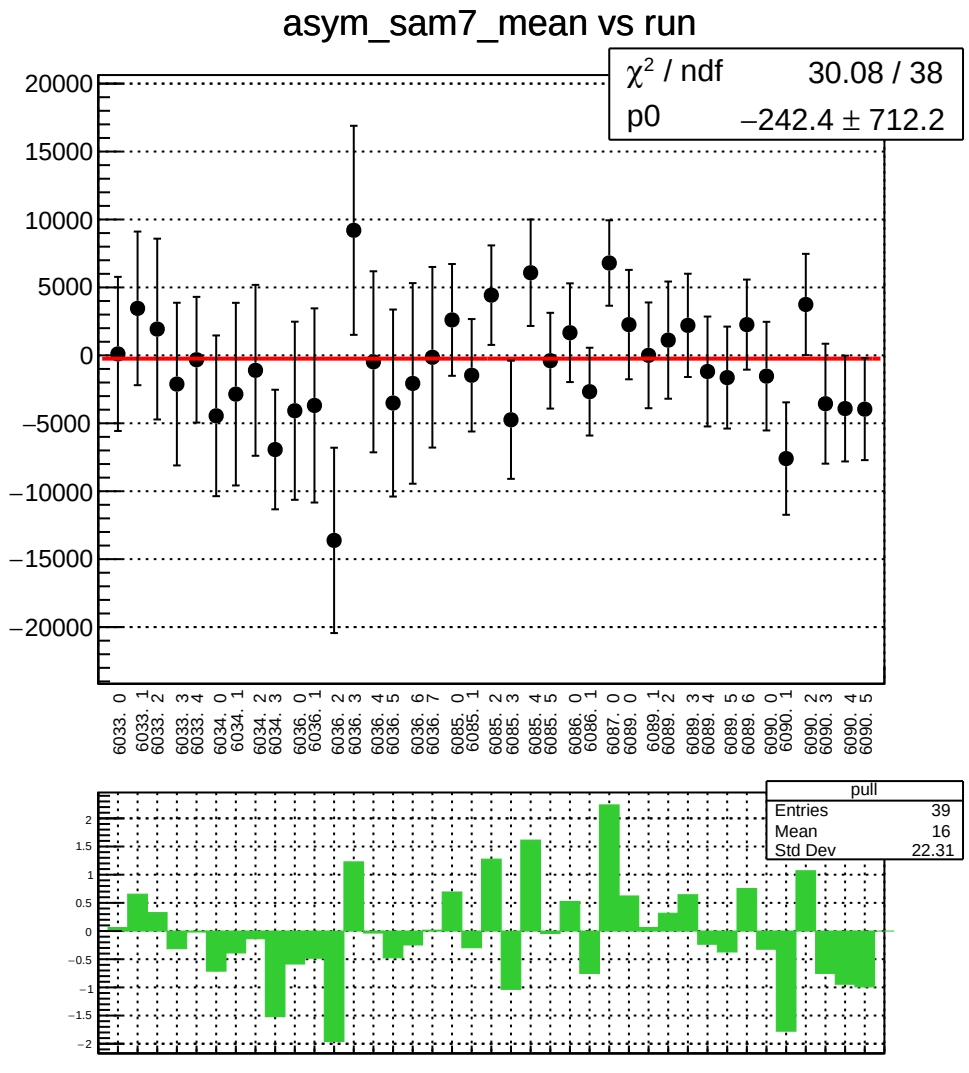

pull1D
Entries 39
Mean 0.01977
Std Dev 0.9078
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

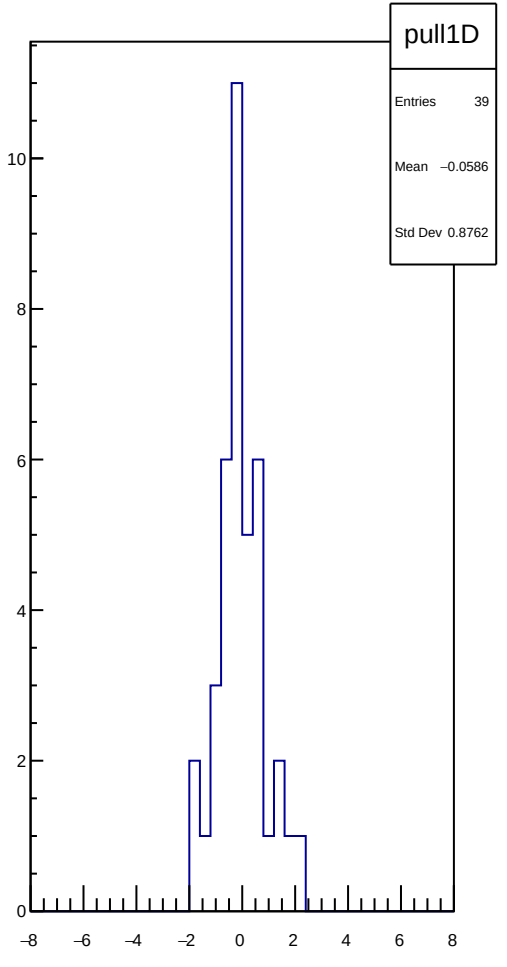

asym_sam6_rms vs run
χ² / ndf 5552 / 38
p0 1090 ± 1.245
1400
1300
1200
1100
1000
900
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0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

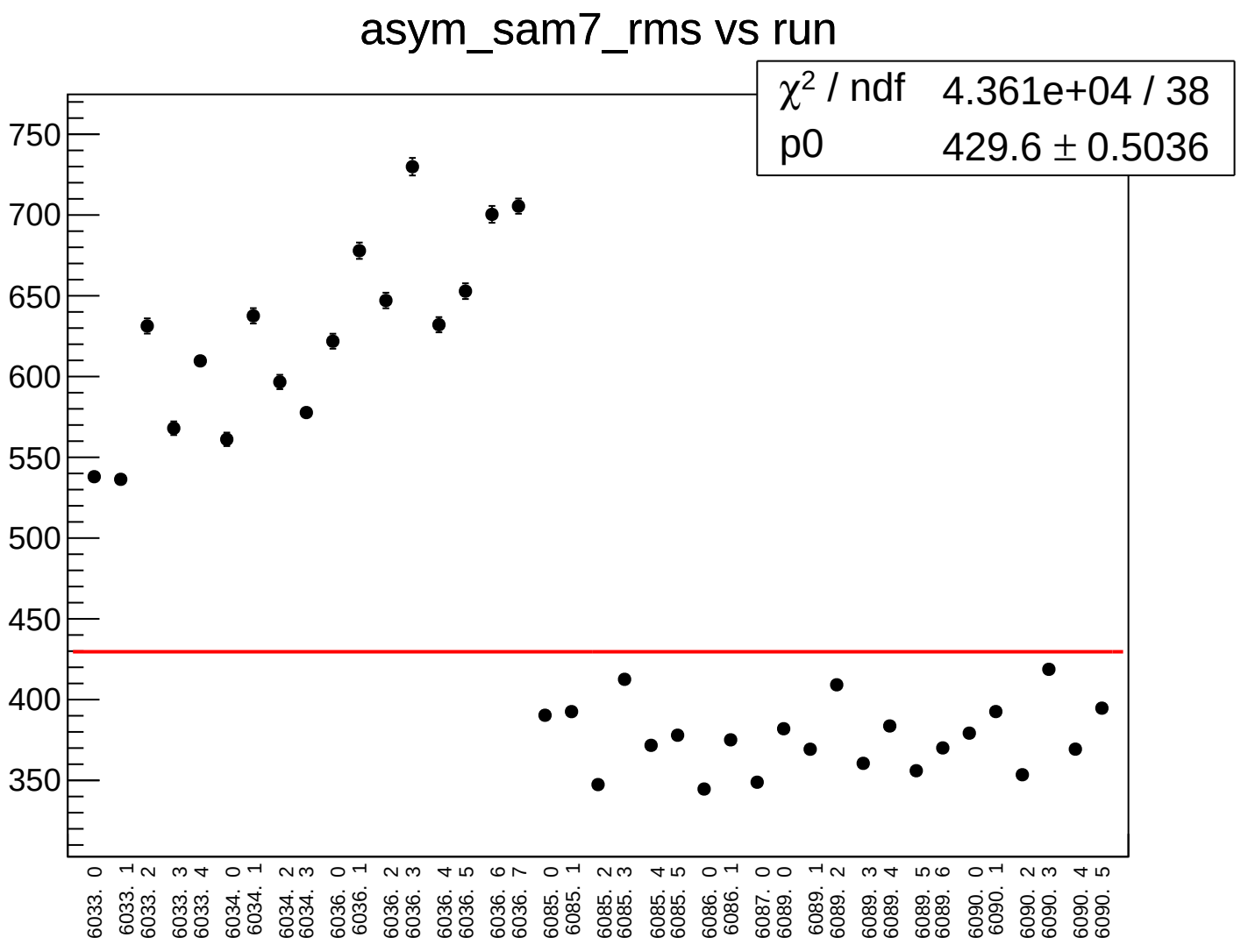

dit_asym_sam7_mean vs run
χ² / ndf 33.49 / 38
p0 46.09 ± 131.4
3000
2000
1000
0
−1000
−2000
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 107.3
Std Dev 86.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

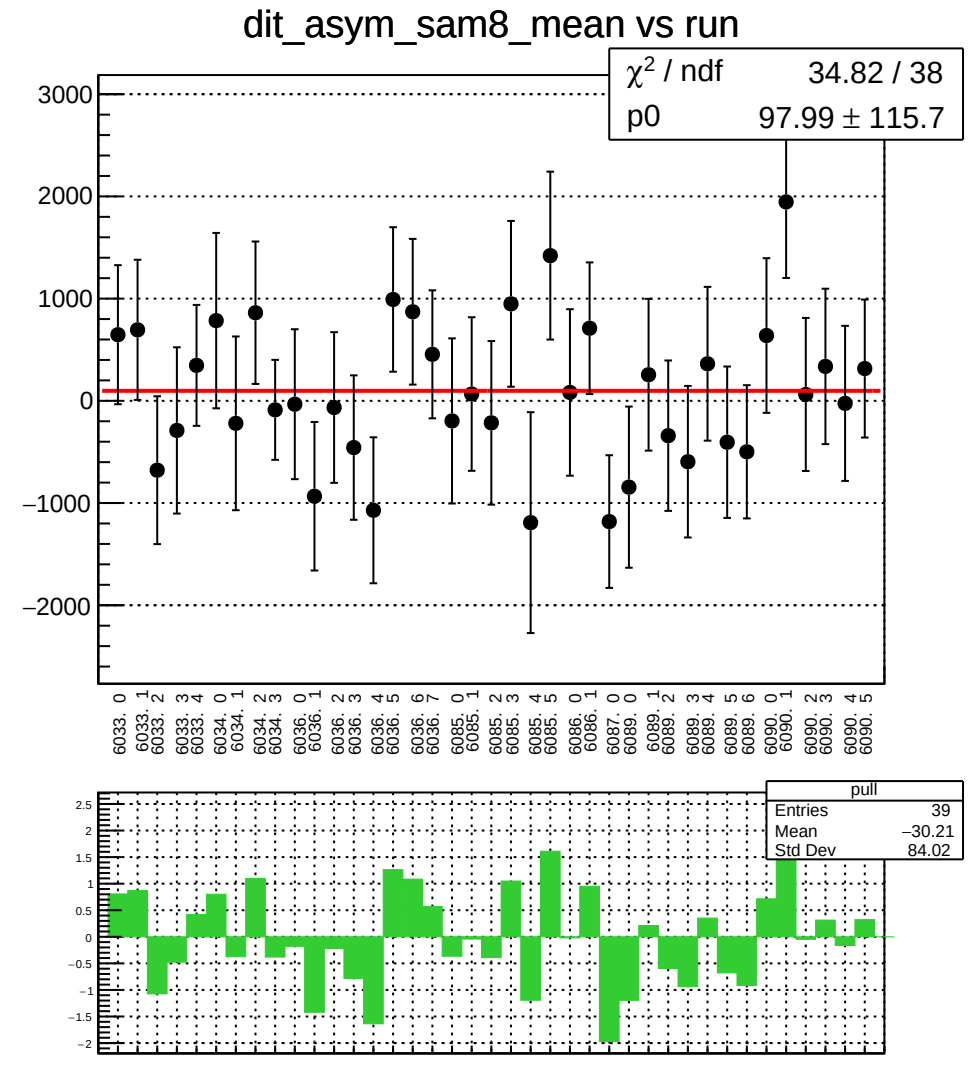

pull1D
Entries 39
Mean 0.0173
Std Dev 0.9266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

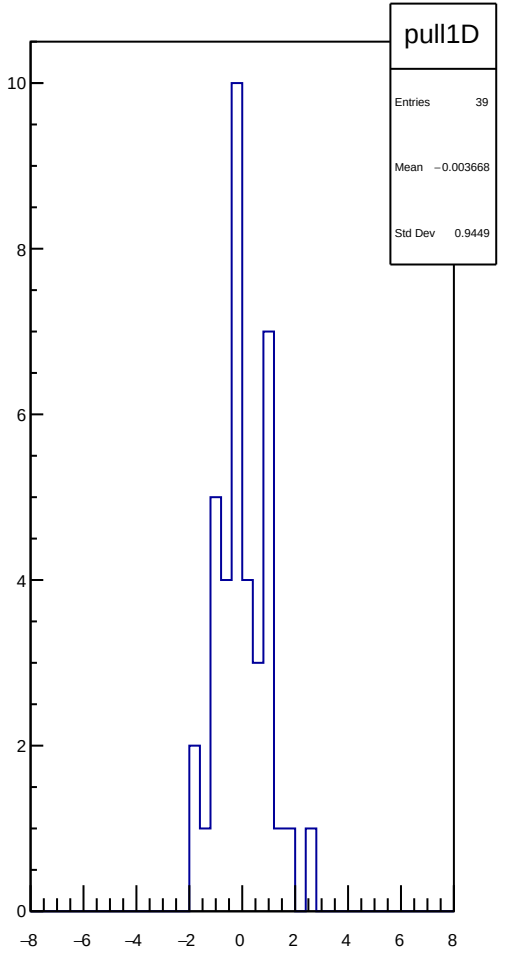

dit_asym_sam7_rms vs run
χ² / ndf 5920 / 38
p0 81.3 ± 0.09293
100
95
90
85
80
75
70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

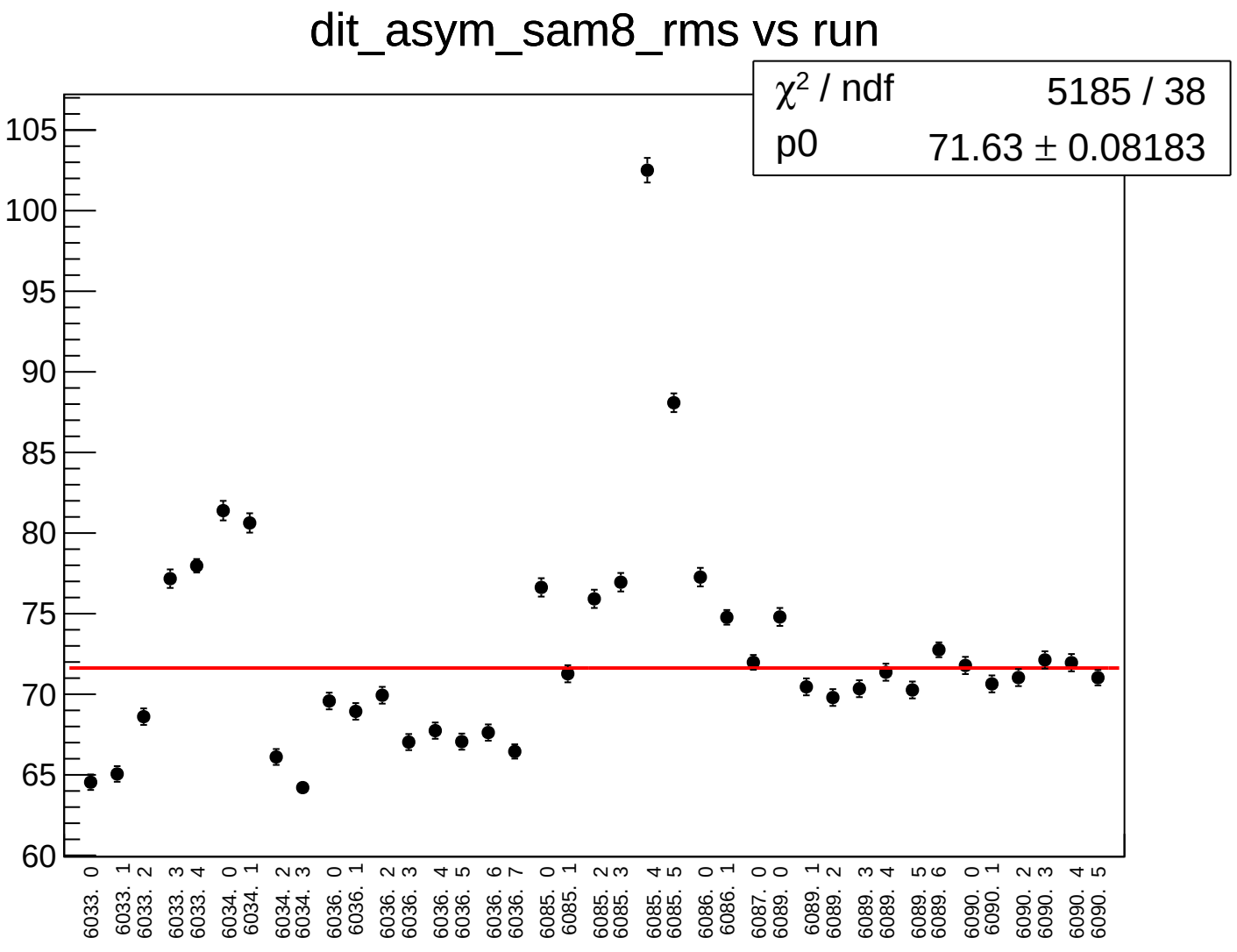

asym_sam7_mean vs run
χ² / ndf 30.08 / 38
p0 −242.4 ± 712.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086.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

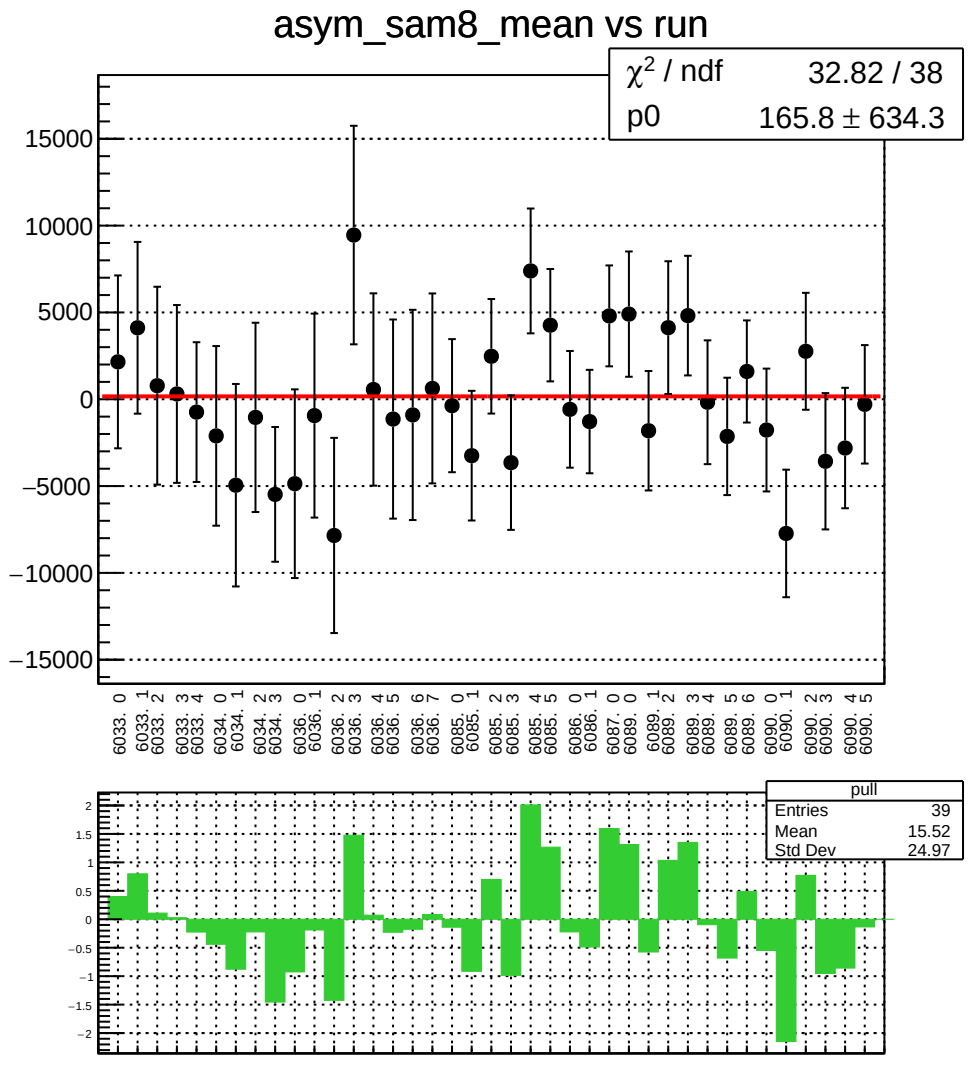

pull1D
Entries 39
Mean −0.0586
Std Dev 0.8762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

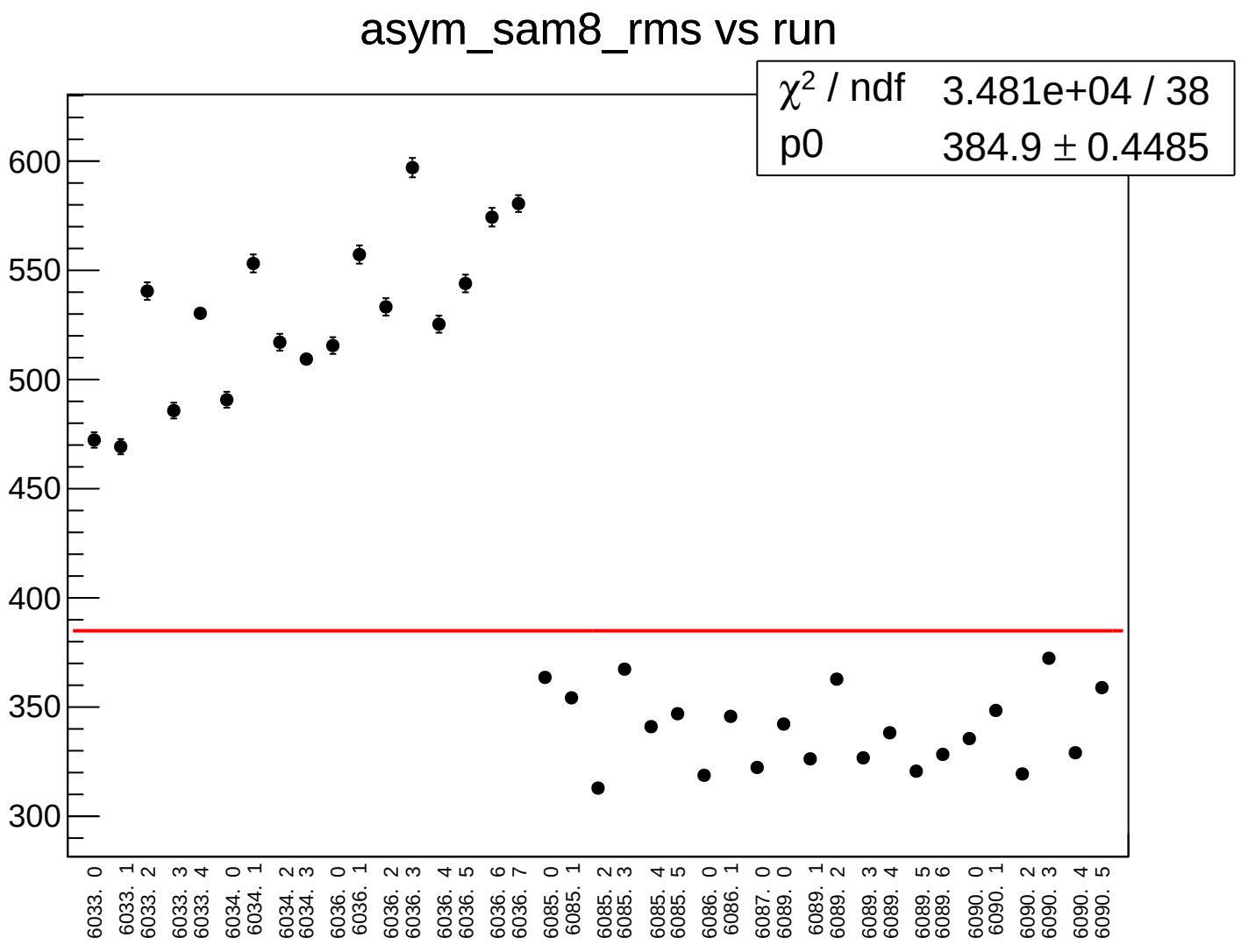

asym_sam7_rms vs run
χ² / ndf 4.361e+04 / 38
p0 429.6 ± 0.5036
750
700
650
600
550
500
450
400
350
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

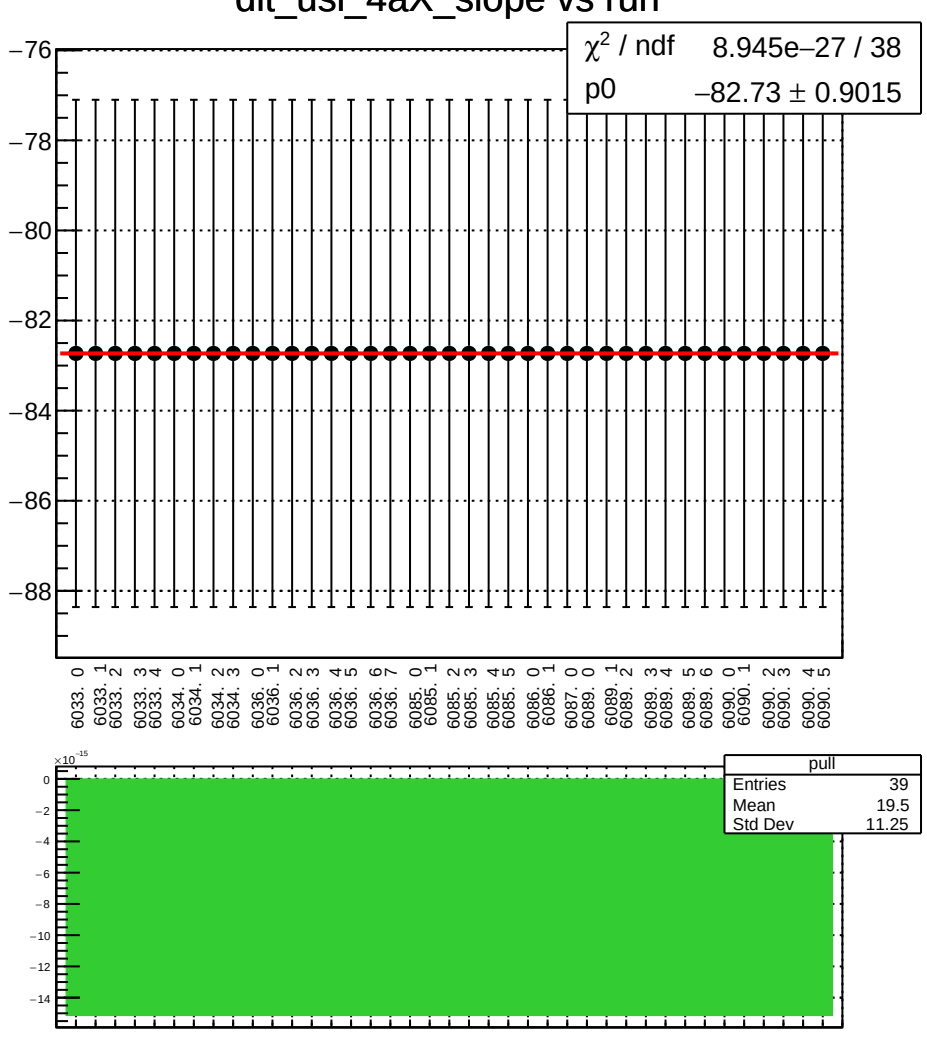

dit_asym_sam8_mean vs run
χ² / ndf 34.82 / 38
p0 97.99 ± 115.7
3000
2000
1000
0
−1000
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −30.21
Std Dev 84.02
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

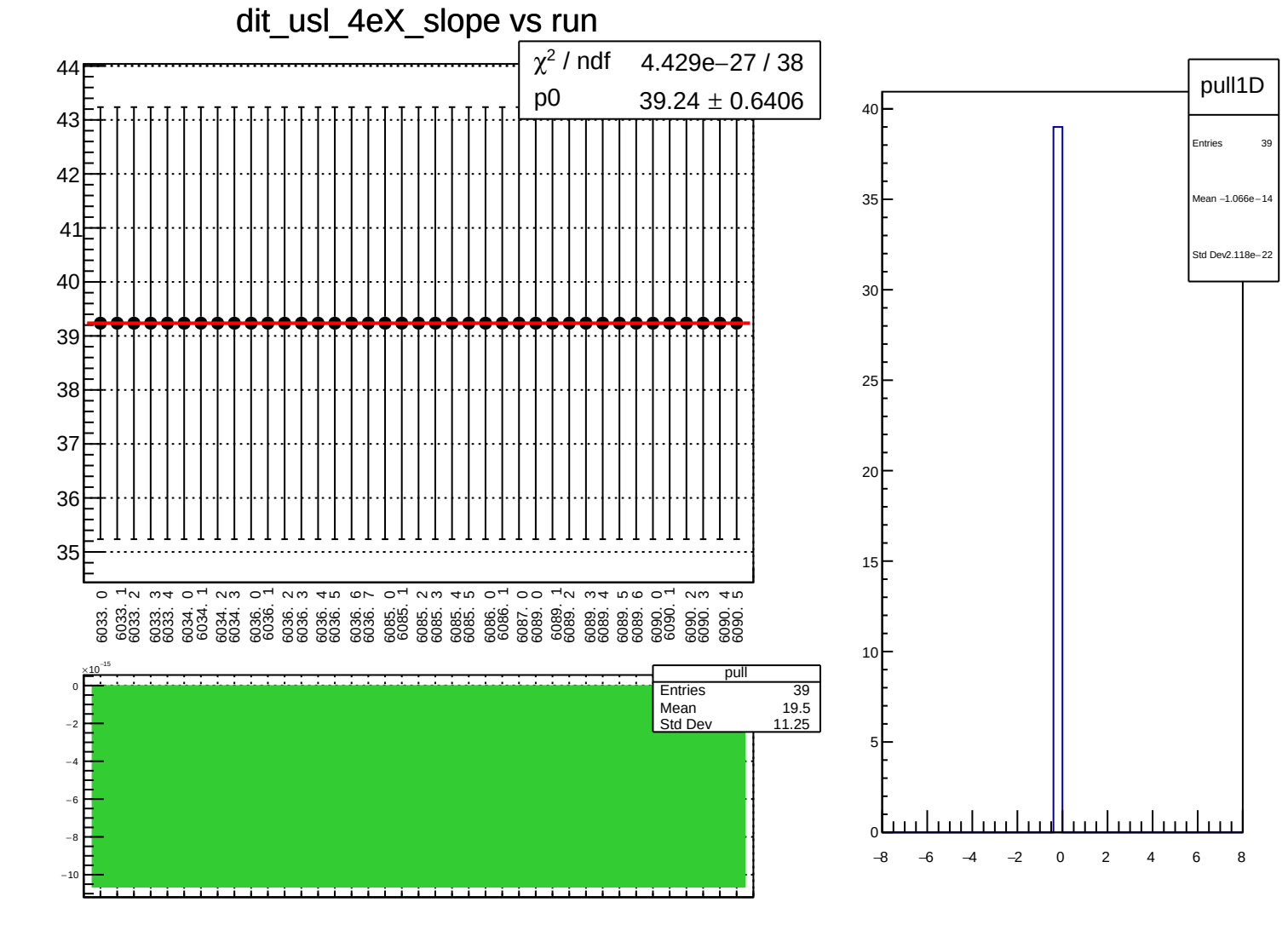

pull1D
Entries 39
Mean −0.003668
Std Dev 0.9449
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

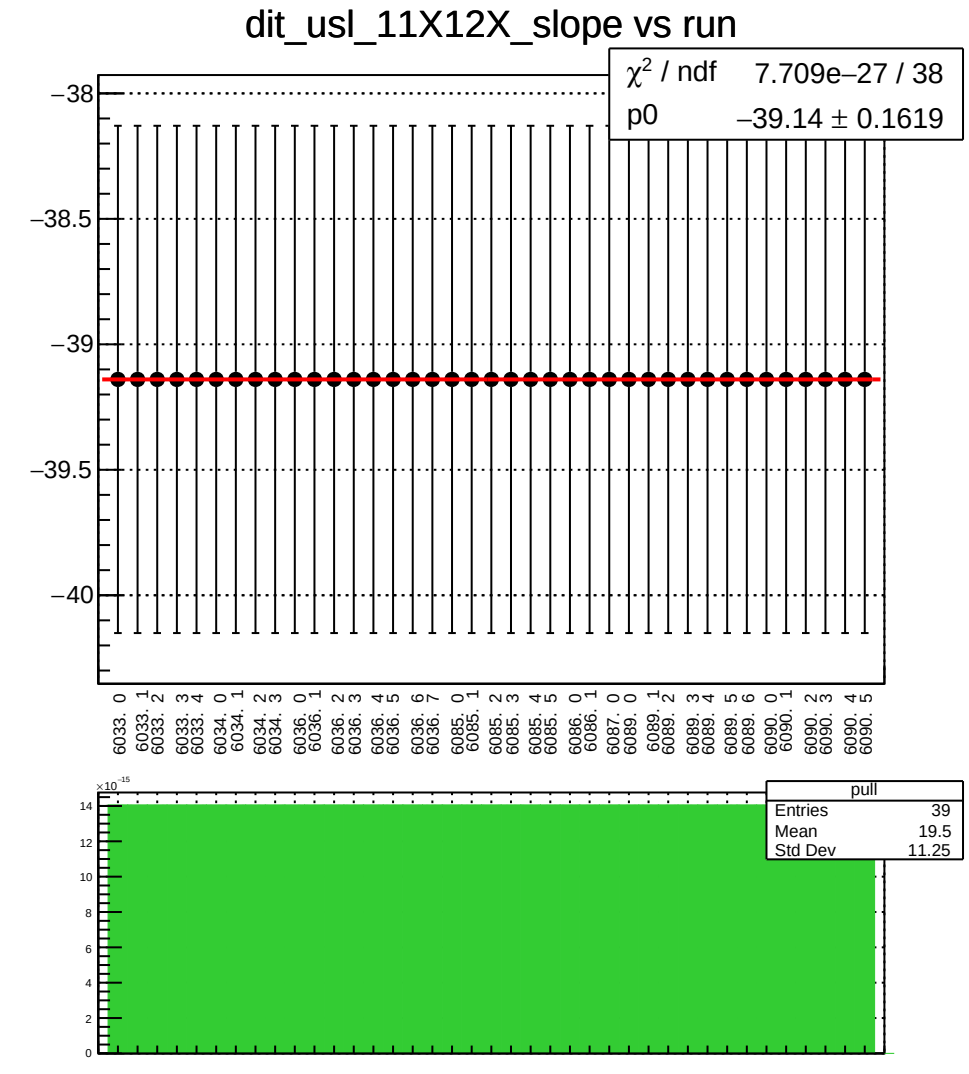

dit_asym_sam8_rms vs run
χ² / ndf 5185 / 38
p0 71.63 ± 0.08183
105
100
95
90
85
80
75
70
65
60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

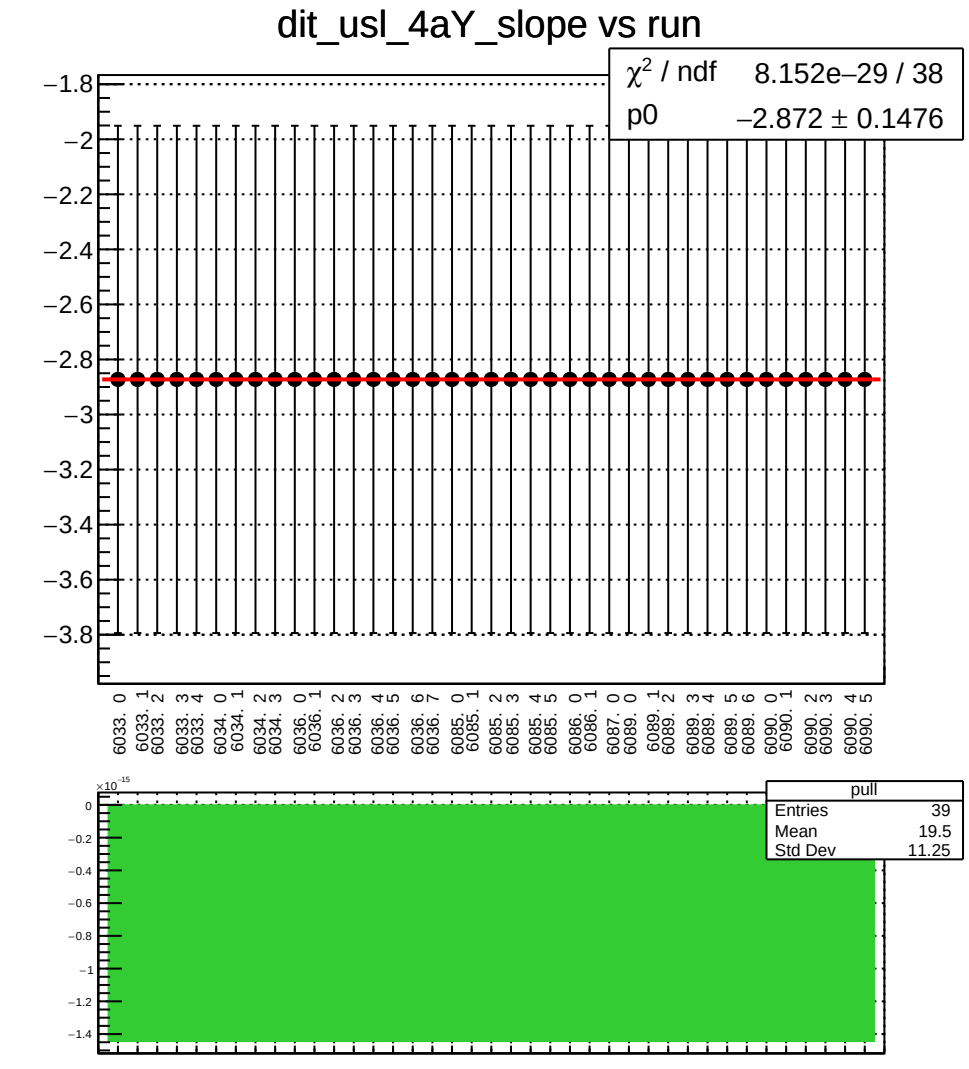

asym_sam8_mean vs run
χ² / ndf 32.82 / 38
p0 165.8 ± 634.3
15000
10000
5000
0
−5000
−10000
−15000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

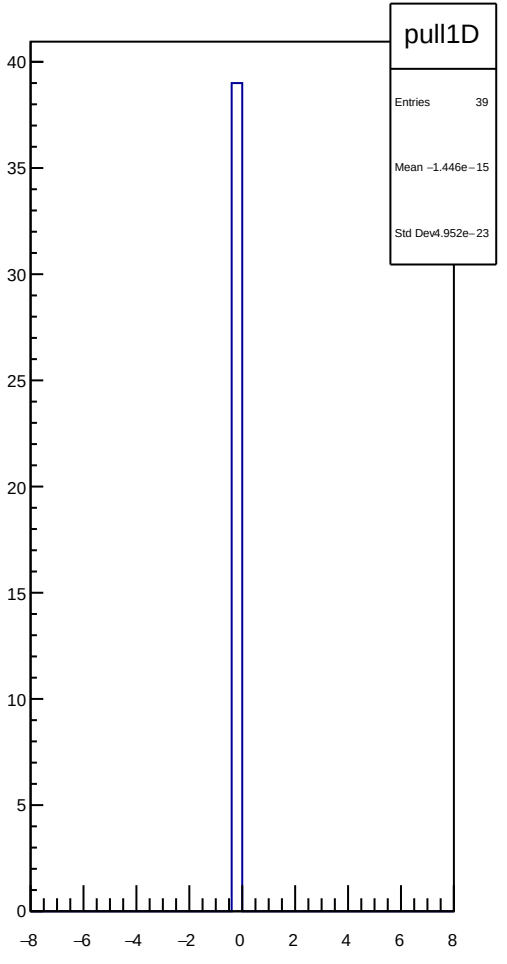

asym_sam8_rms vs run
χ² / ndf 3.481e+04 / 38
p0 384.9 ± 0.4485
600
550
500
450
400
350
300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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


dit_usl_4aX_slope vs run
χ² / ndf 8.945e−27 / 38
p0 −82.73 ± 0.9015
−76
−78
−80
−82
−84
−86
−88
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.514e−14
Std Dev5.989e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4eX_slope vs run
χ² / ndf 4.429e−27 / 38
p0 39.24 ± 0.6406
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.066e−14
Std Dev2.118e−22


dit_usl_11X12X_slope vs run
χ² / ndf 7.709e−27 / 38
p0 −39.14 ± 0.1619
−38
−38.5
−39
−39.5
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 1.406e−14
Std Dev4.235e−22
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 8.152e−29 / 38
p0 −2.872 ± 0.1476
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −1.446e−15
Std Dev4.952e−23
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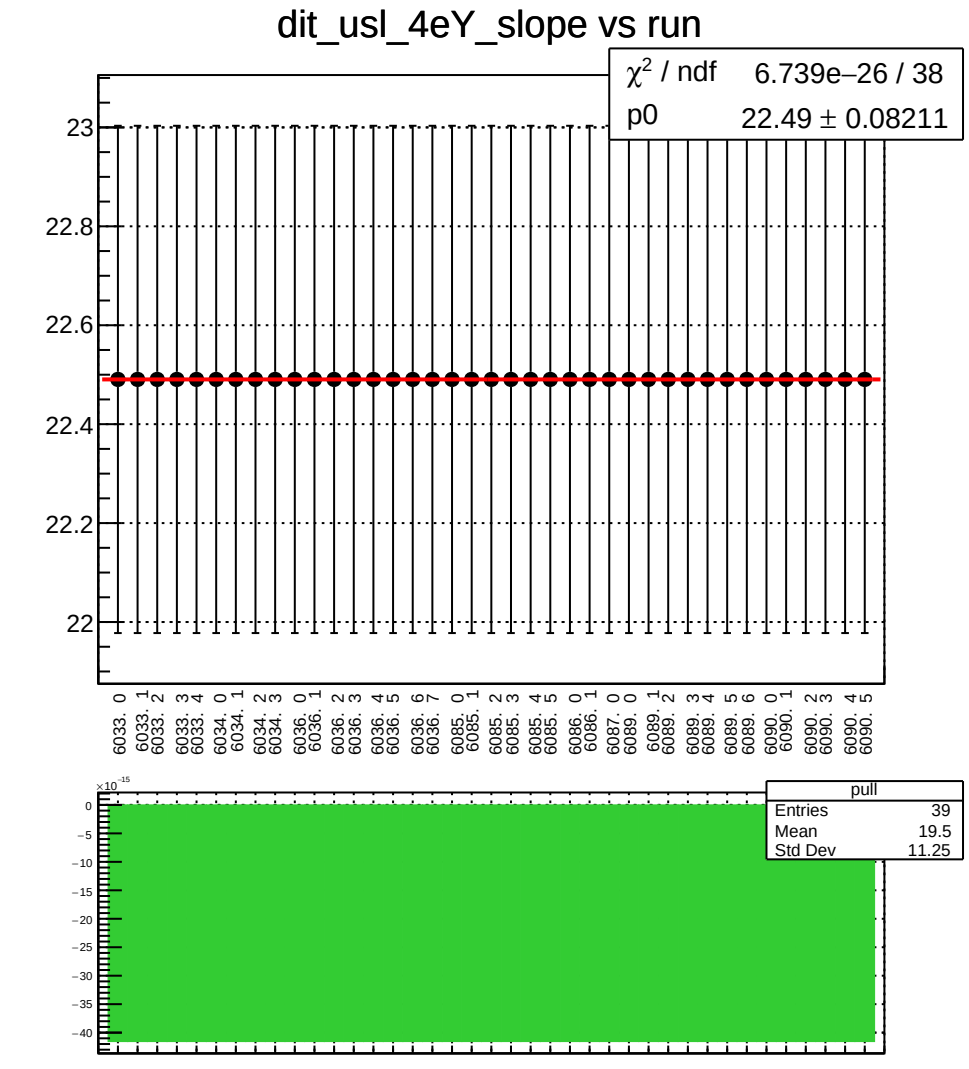
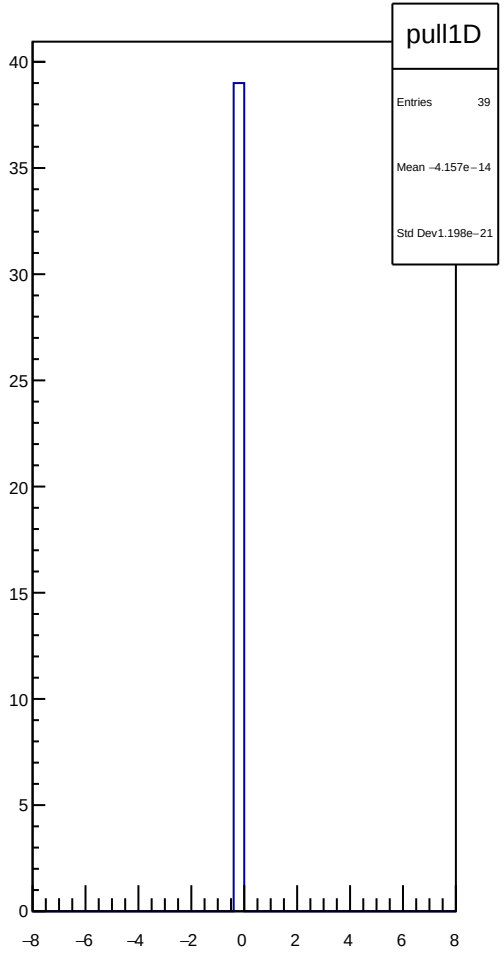
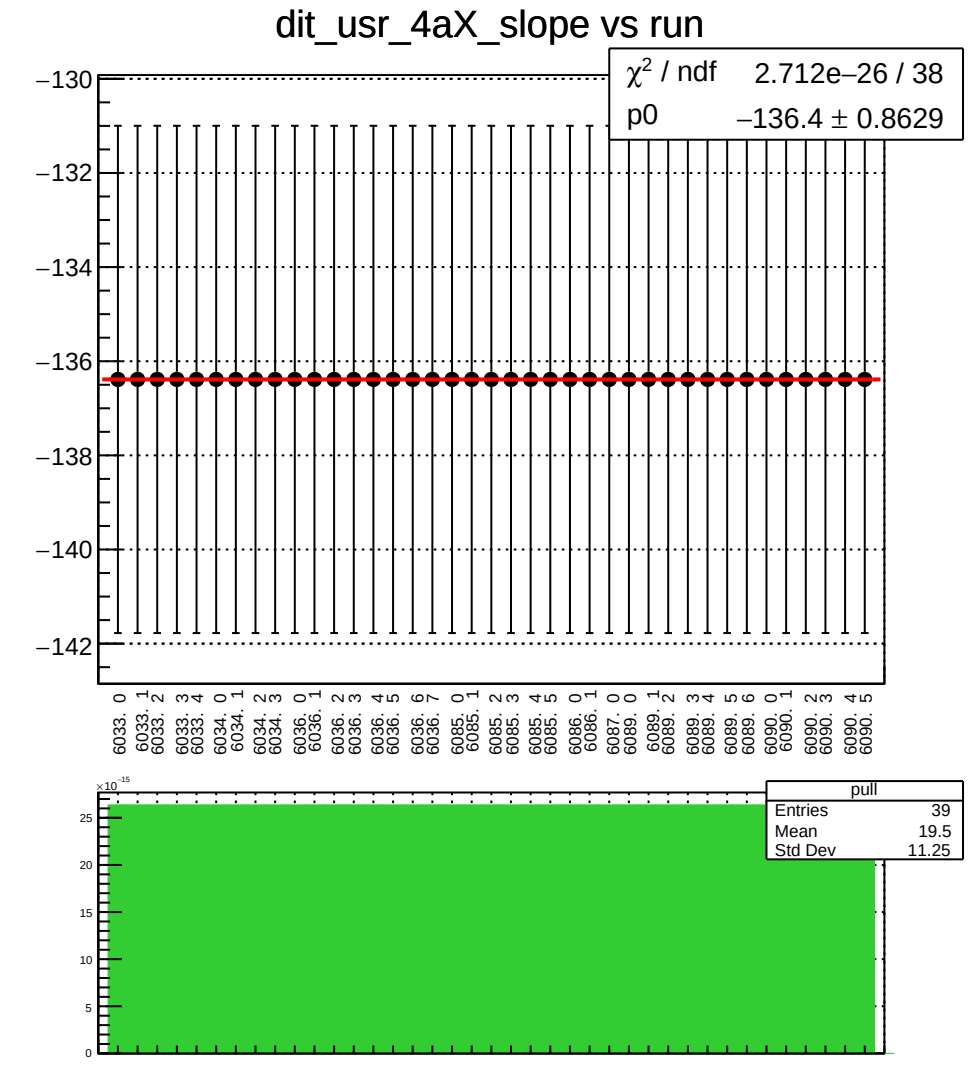
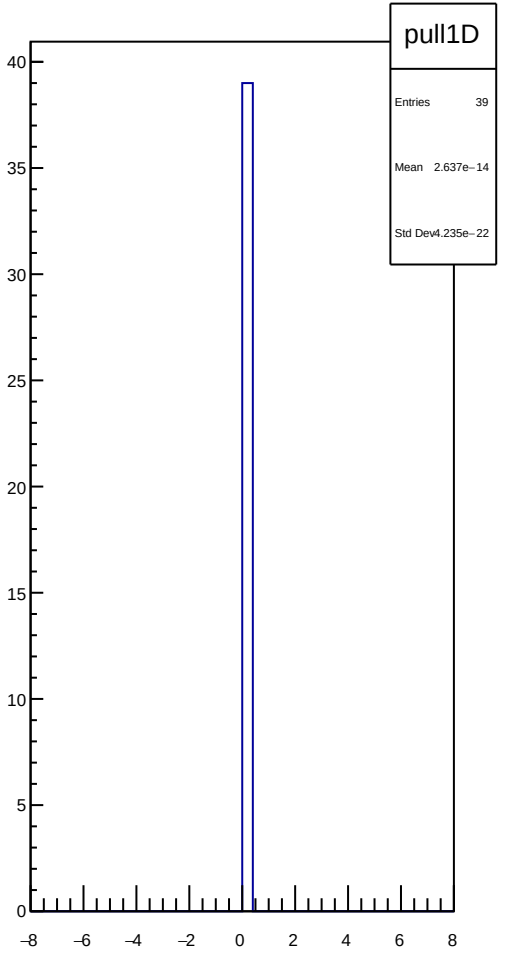
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4eY_slope vs run
χ² / ndf 6.739e−26 / 38
p0 22.49 ± 0.08211
23
22.8
22.6
22.4
22.2
22
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −4.157e−14
Std Dev1.198e−21
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 2.712e−26 / 38
p0 −136.4 ± 0.8629
−130
−132
−134
−136
−138
−140
−142
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean 2.637e−14
Std Dev4.235e−22
40
35
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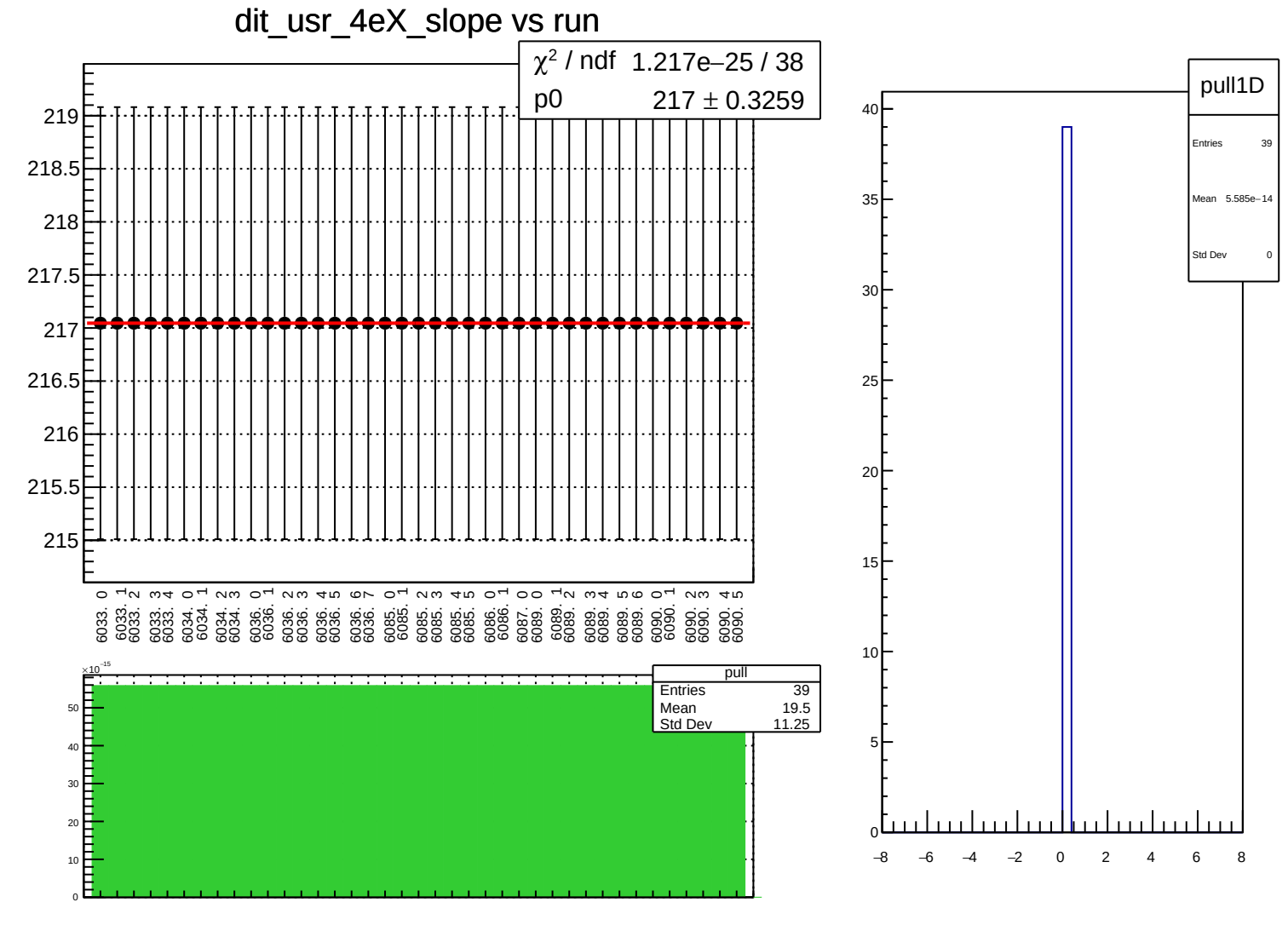
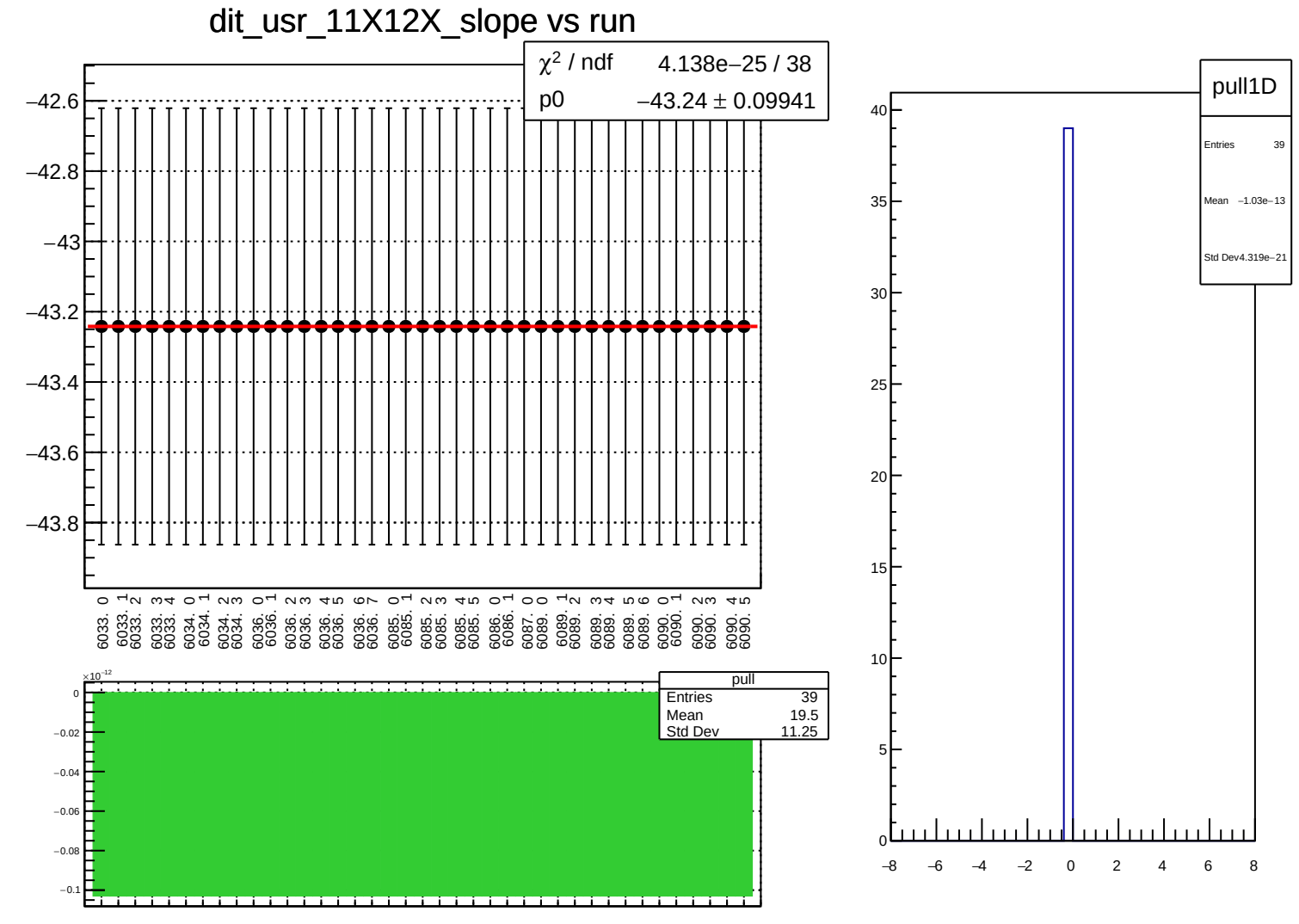
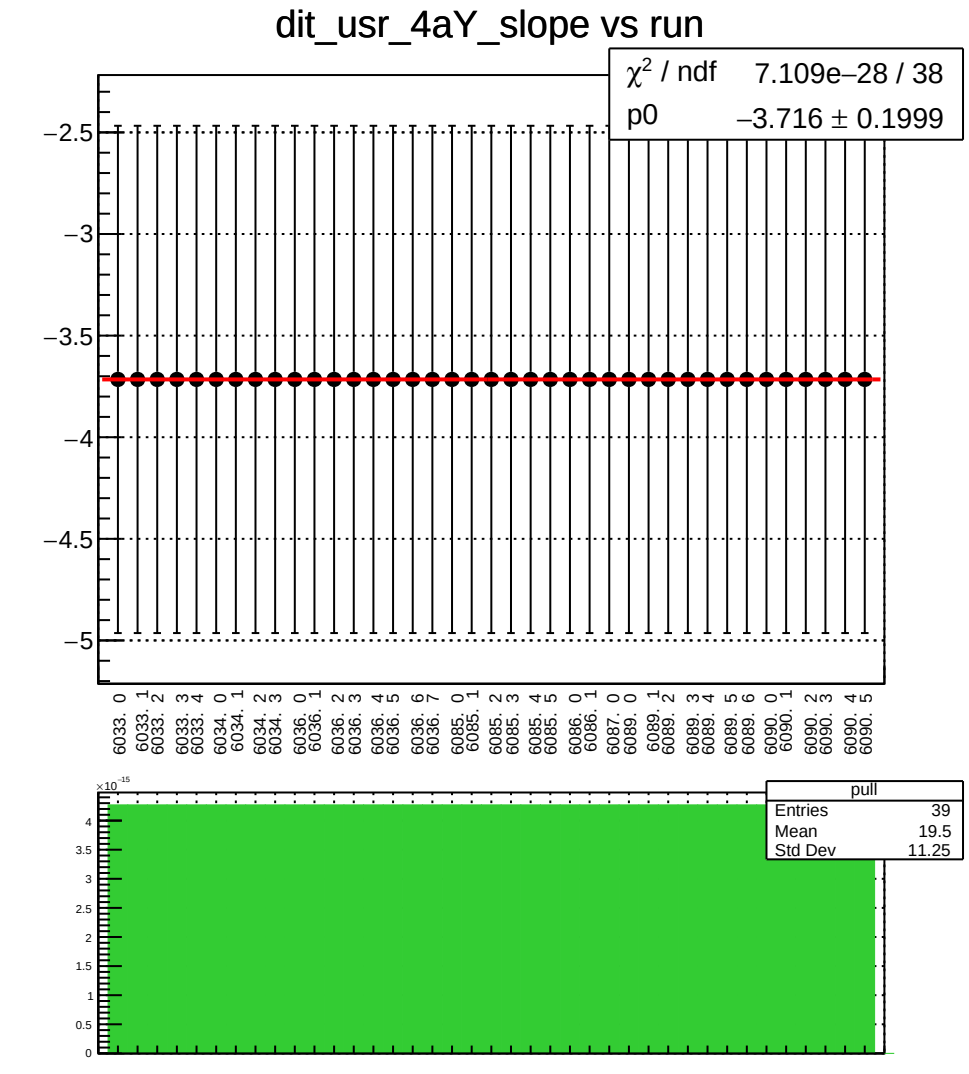
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usr_4eX_slope vs run
χ² / ndf 1.217e−25 / 38
p0 217 ± 0.3259
219
218.5
218
217.5
217
216.5
216
215.5
215
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 5.585e−14
Std Dev 0
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 4.138e−25 / 38
p0 −43.24 ± 0.09941
−42.6
−42.8
−43
−43.2
−43.4
−43.6
−43.8
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.03e−13
Std Dev4.319e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usr_4aY_slope vs run
χ² / ndf 7.109e−28 / 38
p0 −3.716 ± 0.1999
−2.5
−3
−3.5
−4
−4.5
−5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 4.27e−15
Std Dev1.674e−22
40
35
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25
20
15
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5
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−8
−6
−4
−2
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2
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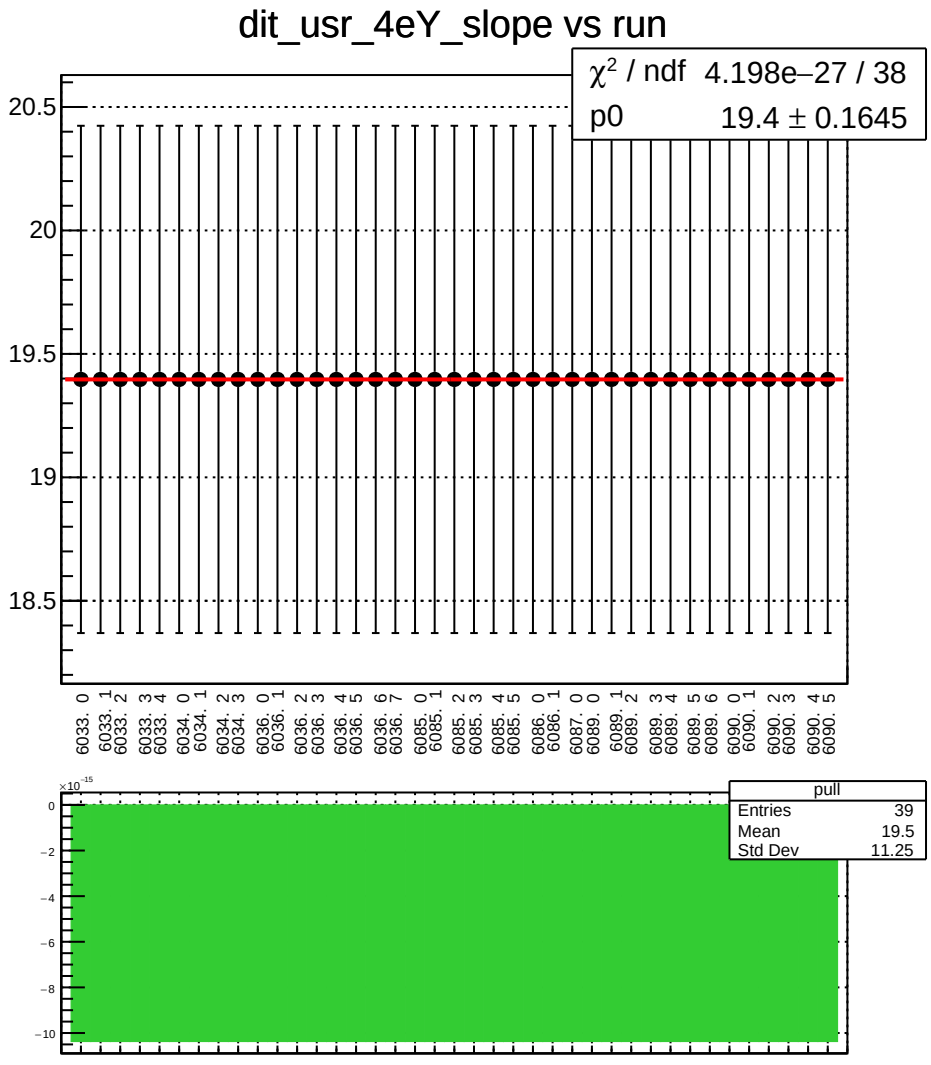
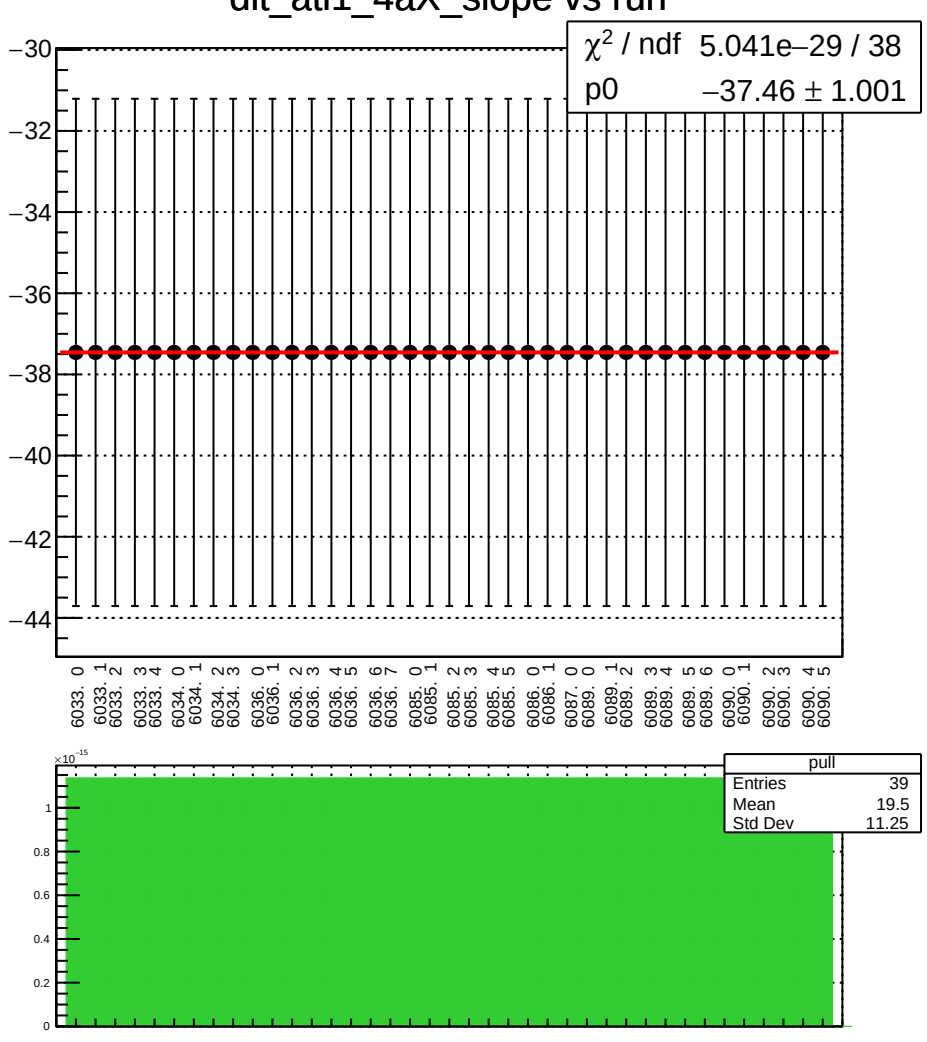
6
8


dit_usr_4eY_slope vs run
χ² / ndf 4.198e−27 / 38
p0 19.4 ± 0.1645
20.5
20
19.5
19
18.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.037e−14
Std Dev3.348e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl1_4aX_slope vs run
χ² / ndf 5.041e−29 / 38
p0 −37.46 ± 1.001
−30
−32
−34
−36
−38
−40
−42
−44
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
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6036. 7
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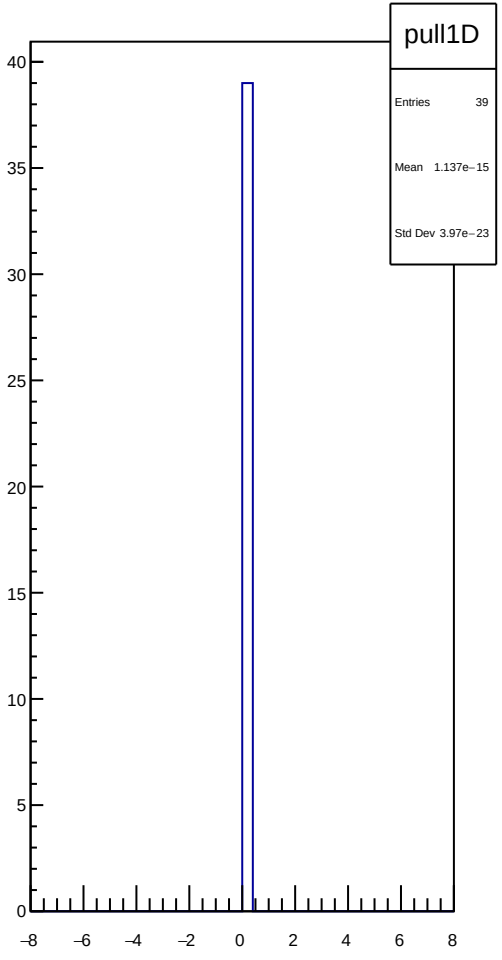
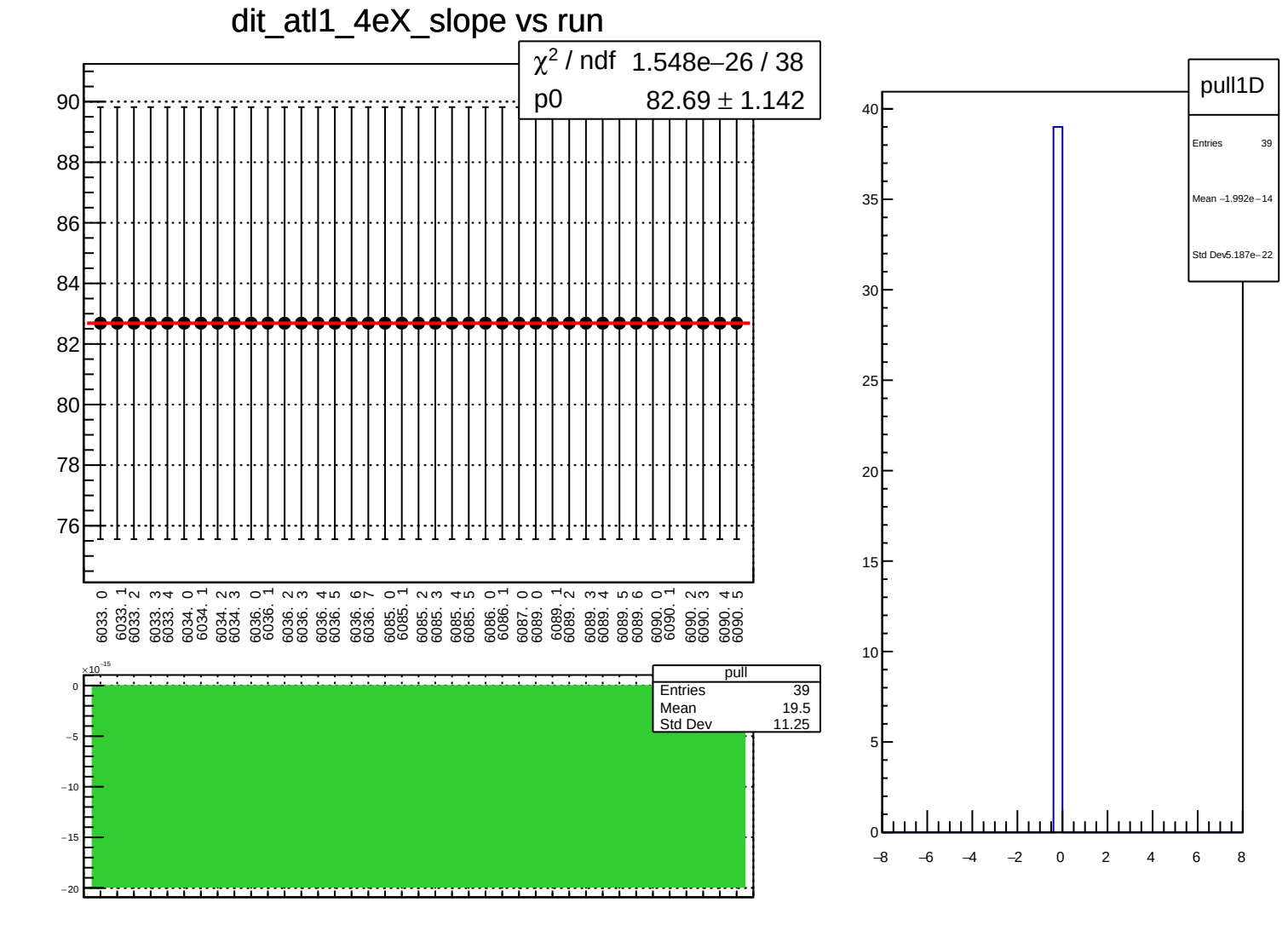
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
1
0.8
0.6
0.4
0.2
0
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean 1.137e−15
Std Dev 3.97e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl1_4eX_slope vs run
χ² / ndf 1.548e−26 / 38
p0 82.69 ± 1.142
90
88
86
84
82
80
78
76
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.992e−14
Std Dev5.187e−22
40
35
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25
20
15
10
5
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−8
−6
−4
−2
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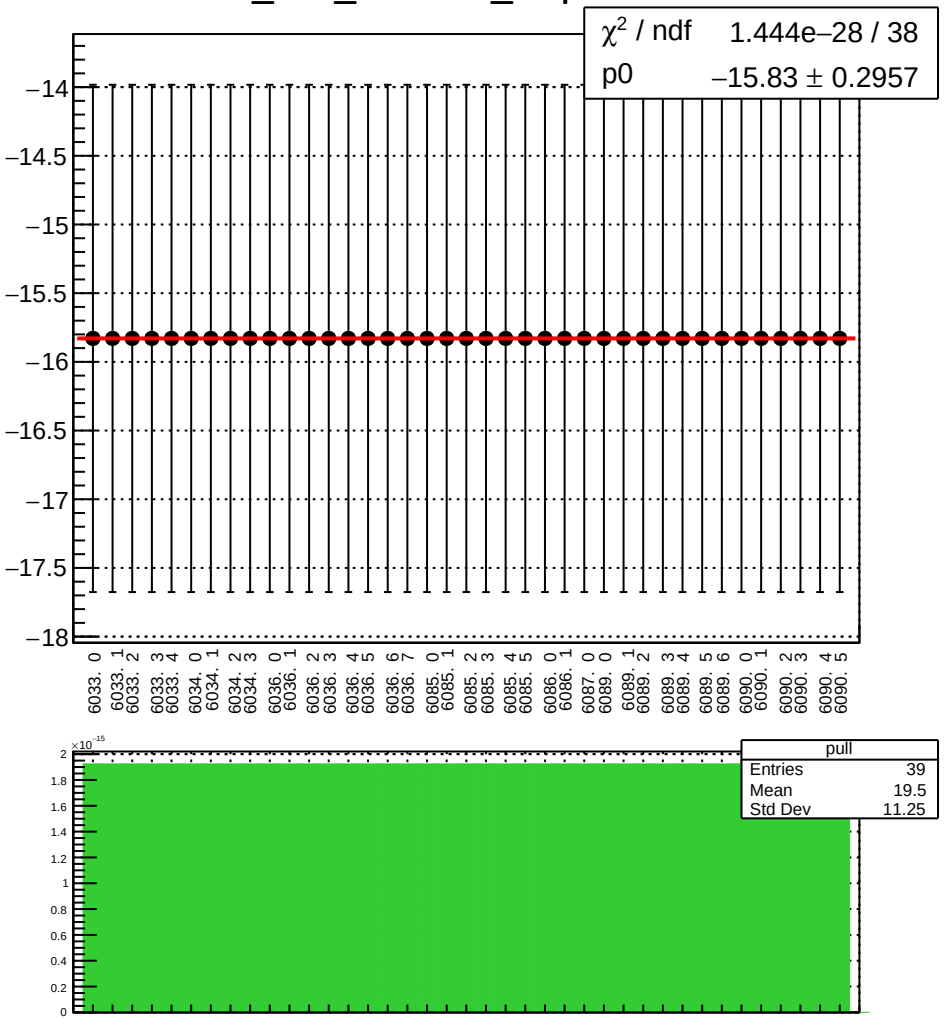
2
4
6
8


dit_atl1_11X12X_slope vs run
χ² / ndf 1.444e−28 / 38
p0 −15.83 ± 0.2957
−14
−14.5
−15
−15.5
−16
−16.5
−17
−17.5
−18
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
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6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
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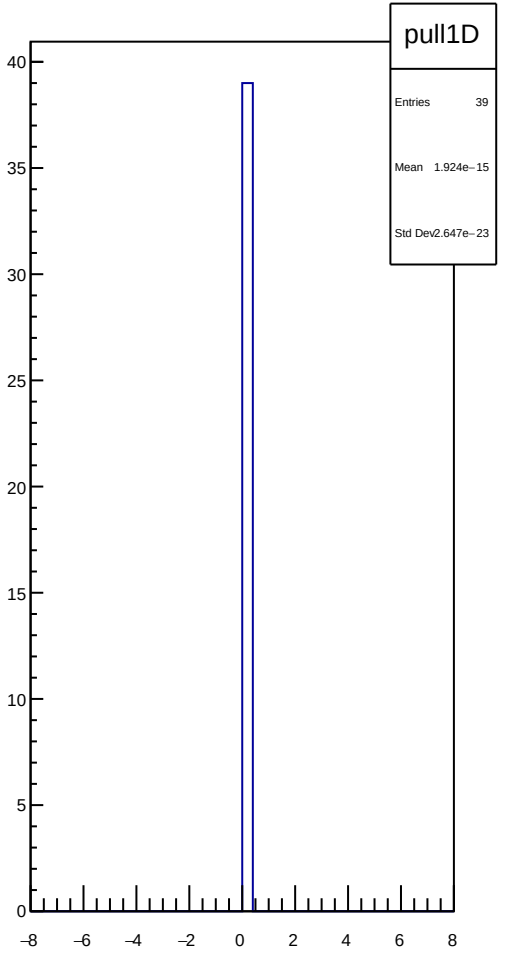
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean 1.924e−15
Std Dev2.647e−23
40
35
30
25
20
15
10
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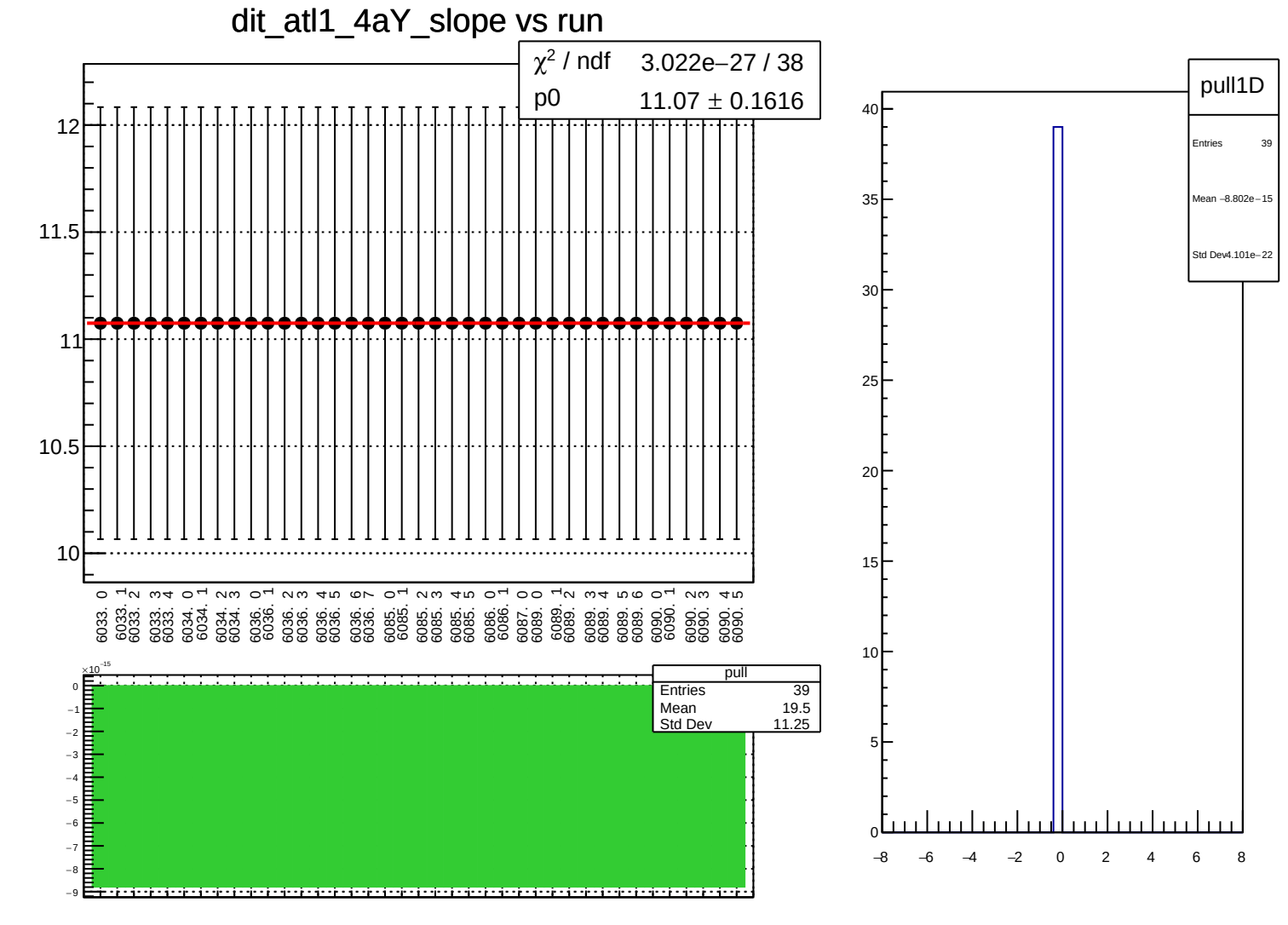
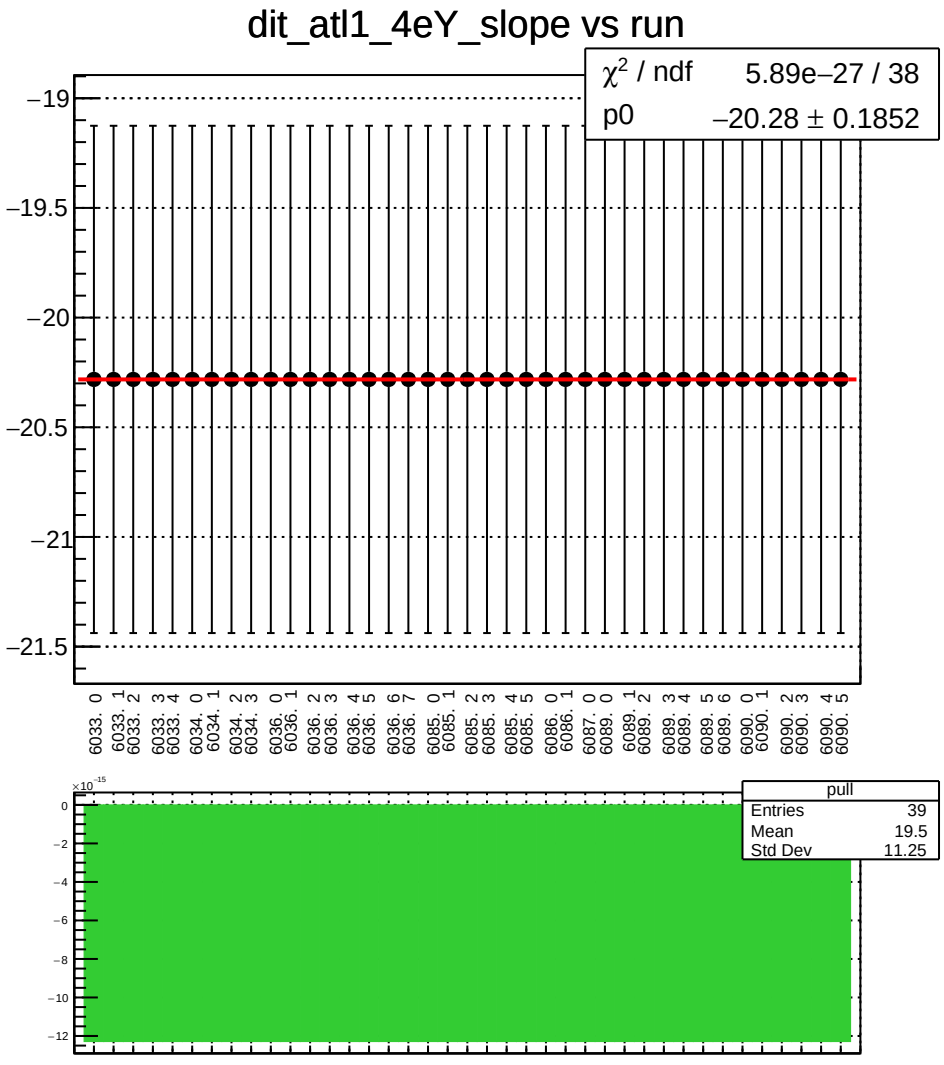
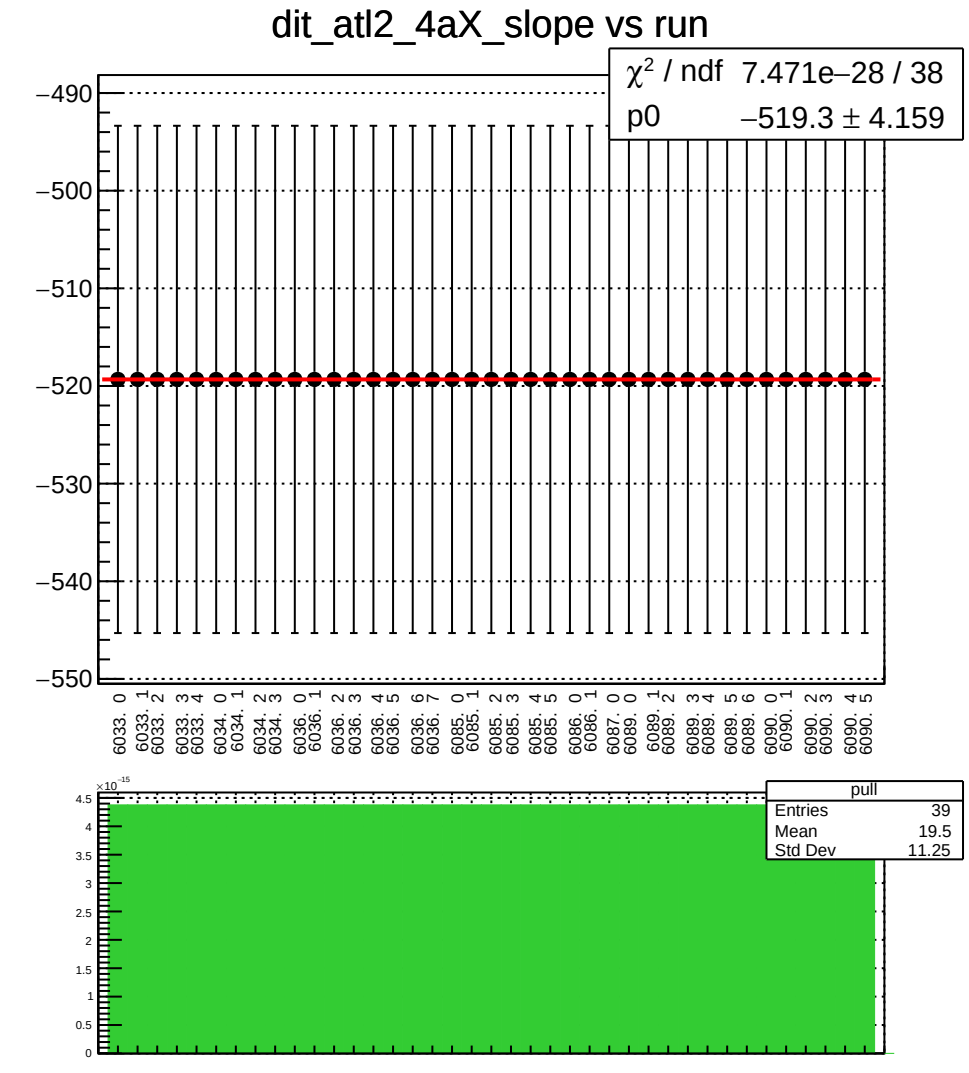
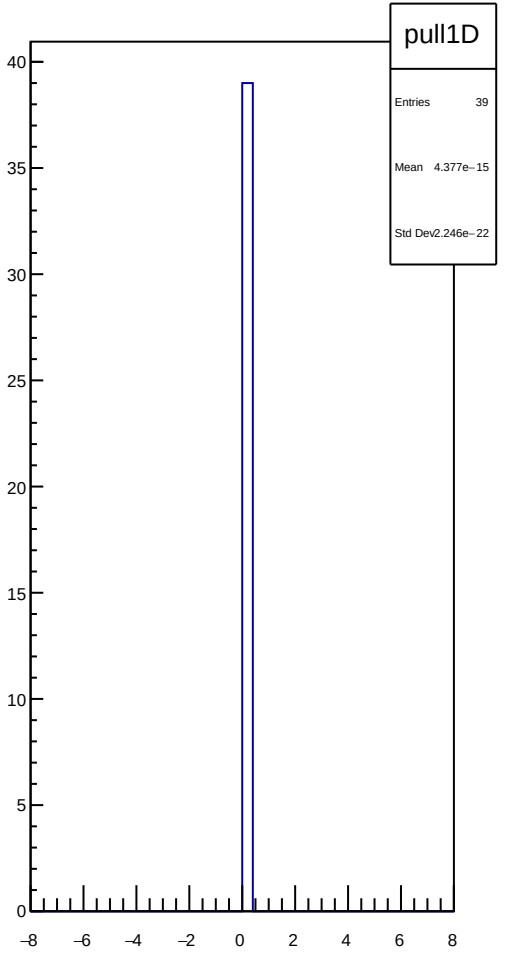
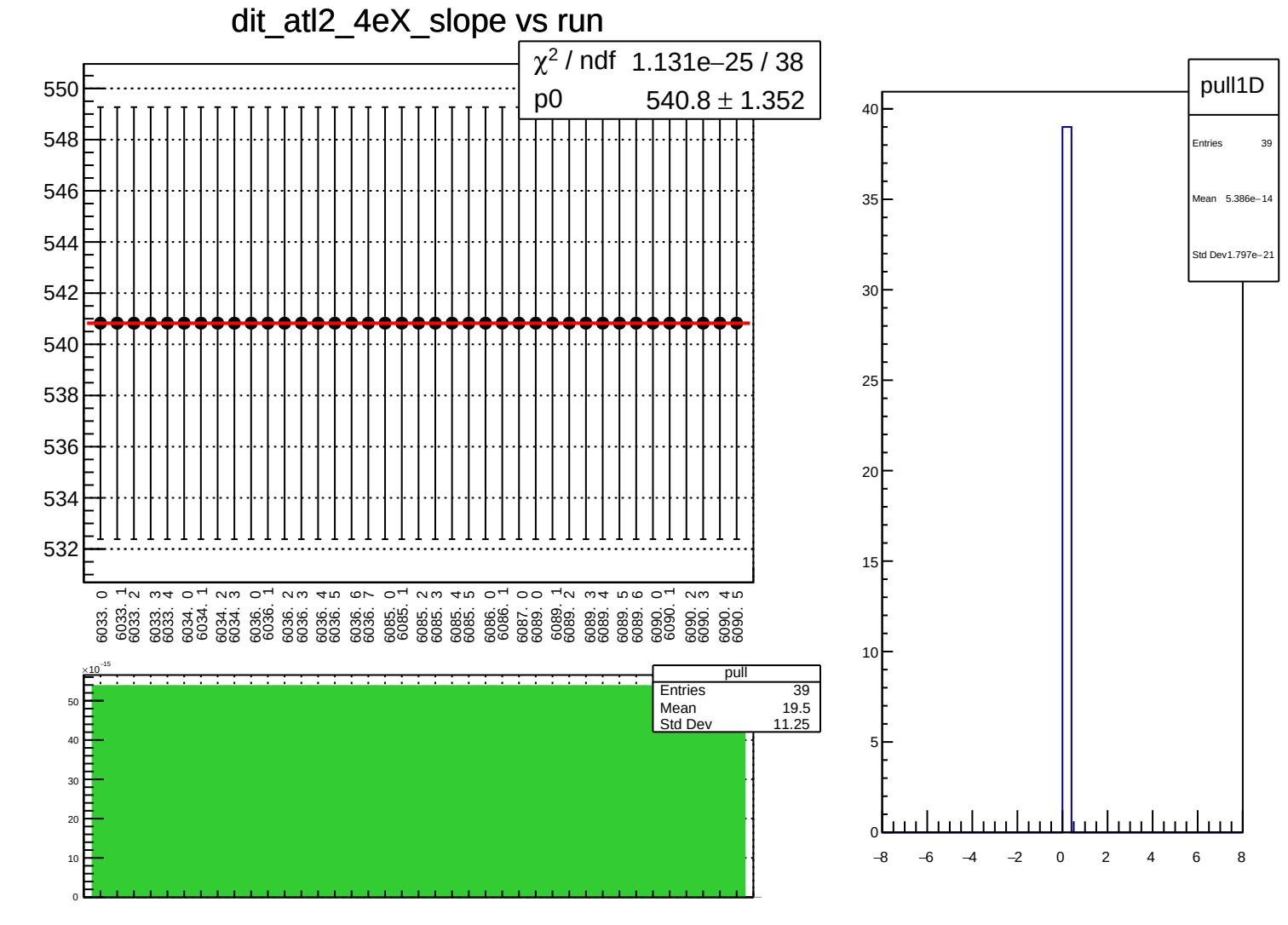
−8
−6
−4
−2
0
2
4
6
8

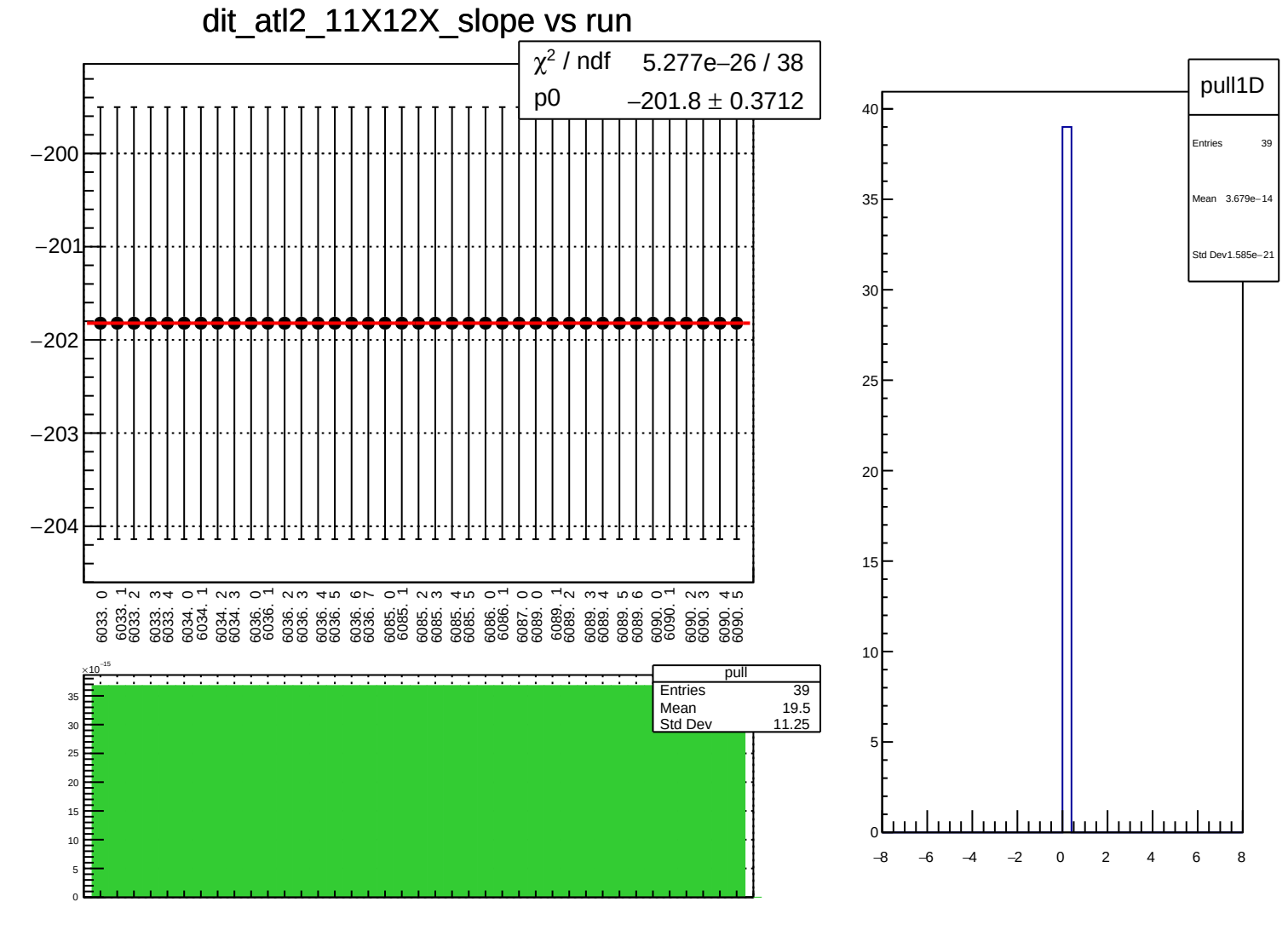

dit_atl1_4aY_slope vs run
χ² / ndf 3.022e−27 / 38
p0 11.07 ± 0.1616
12
11.5
11
10.5
10
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
−8
−9
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −8.802e−15
Std Dev4.101e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

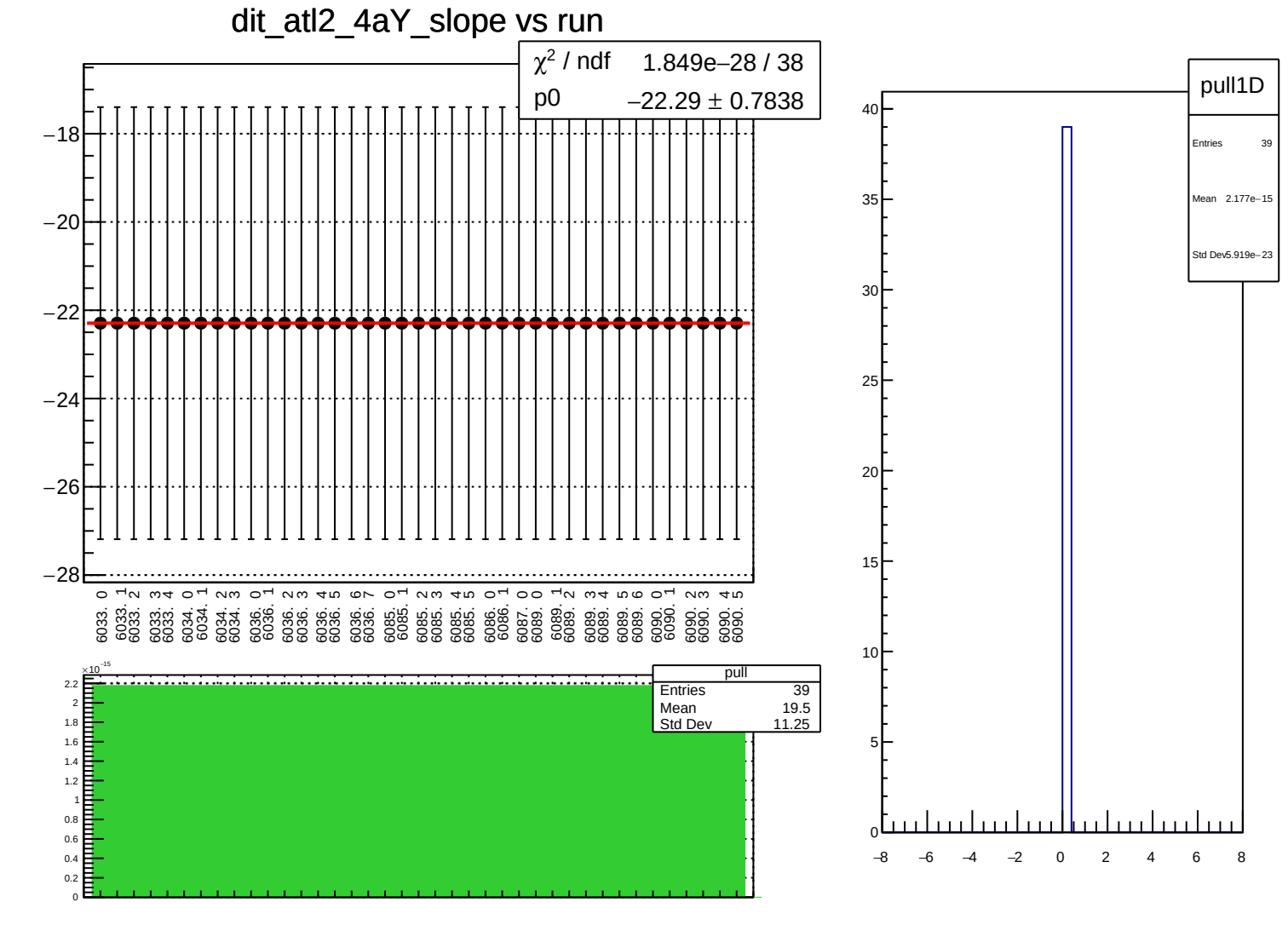

dit_atl1_4eY_slope vs run
χ² / ndf 5.89e−27 / 38
p0 −20.28 ± 0.1852
−19
−19.5
−20
−20.5
−21
−21.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.229e−14
Std Dev 2.593e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

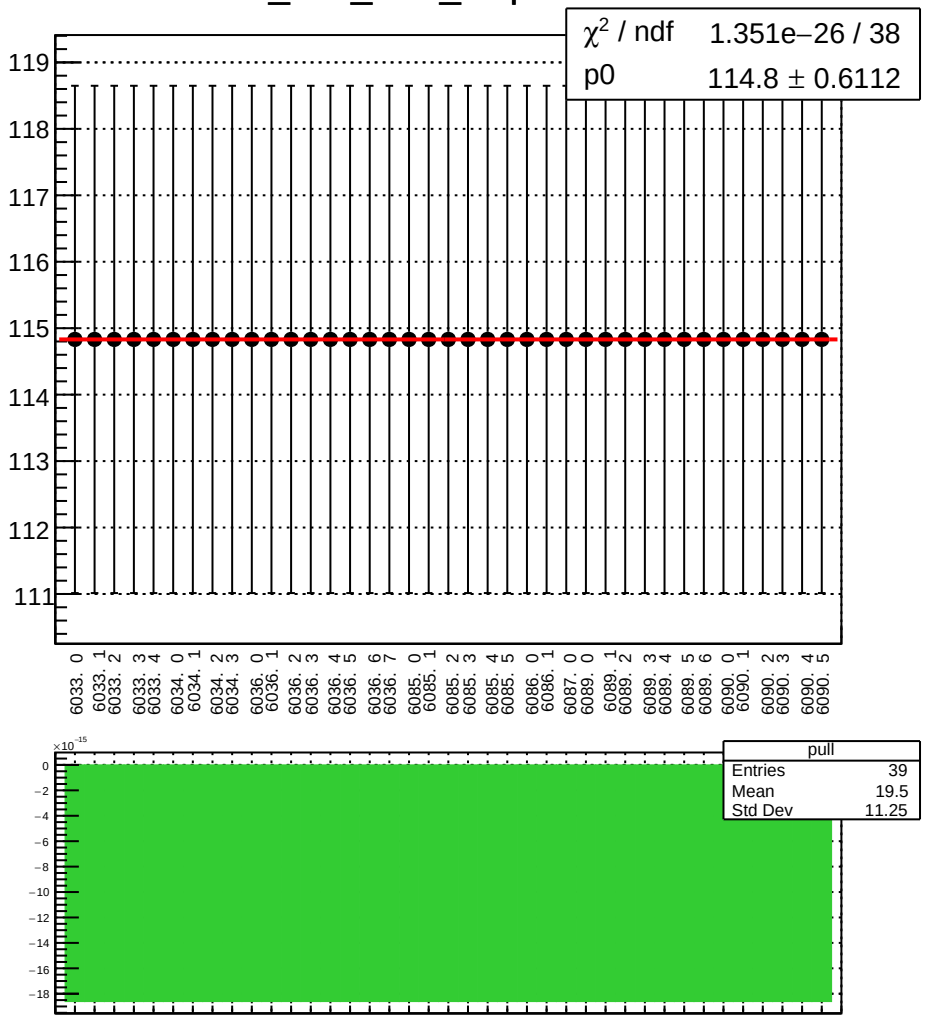

dit_atl2_4aX_slope vs run
χ² / ndf 7.471e−28 / 38
p0 −519.3 ± 4.159
−490
−500
−510
−520
−530
−540
−550
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 39
Mean 19.5
Std Dev 11.25

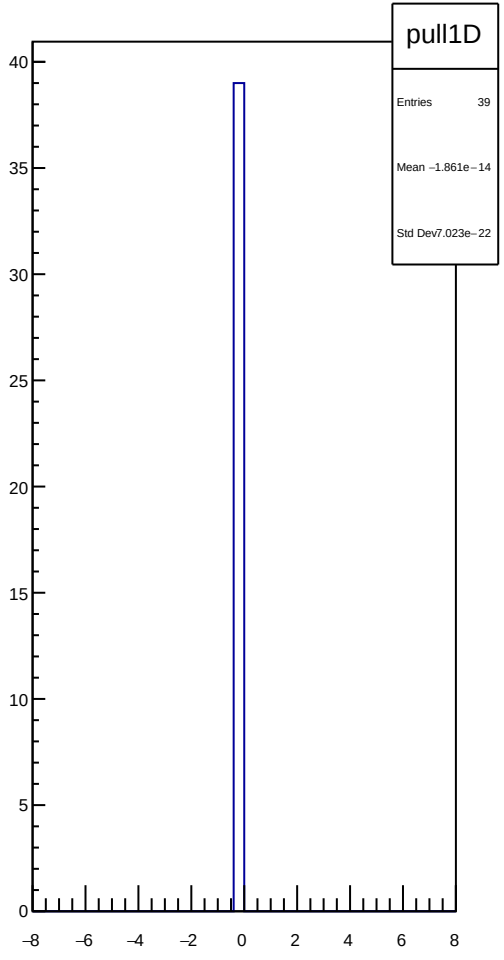

pull1D
Entries 39
Mean 4.377e−15
Std Dev 2.246e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

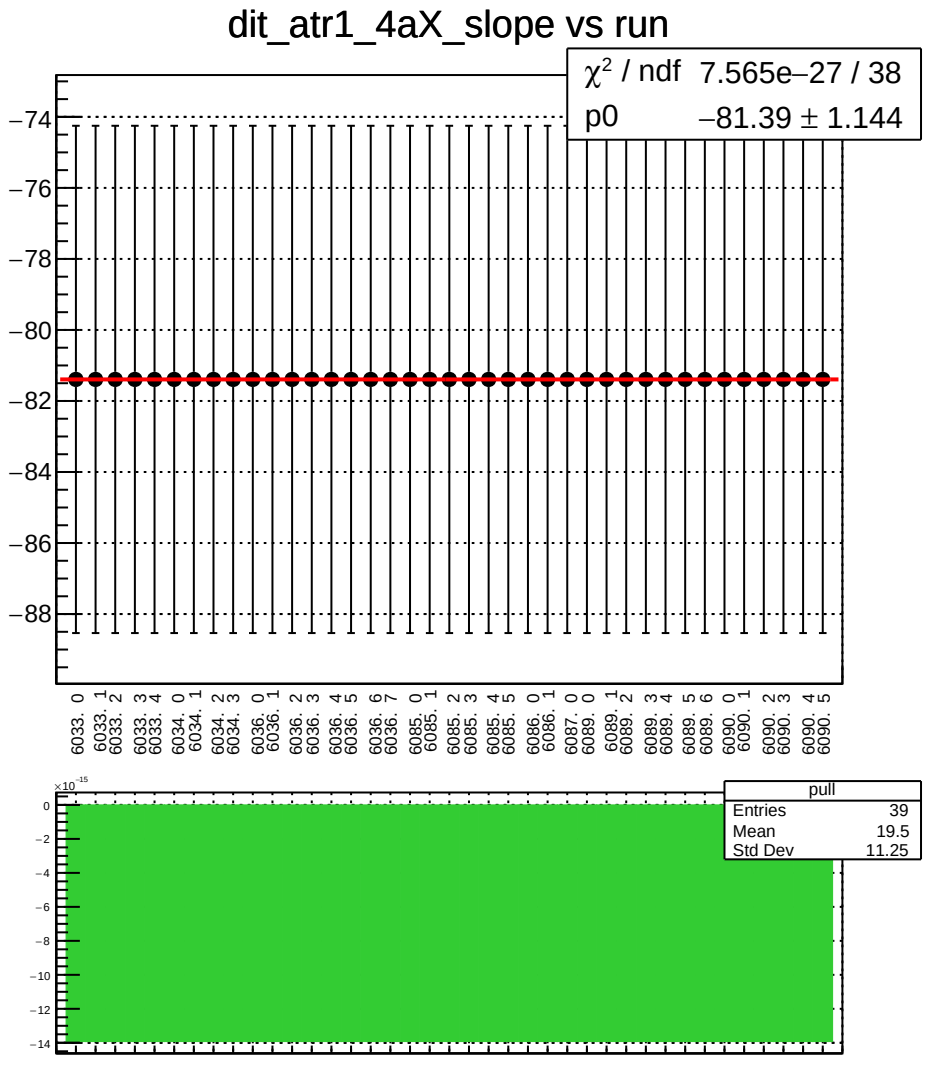

dit_atl2_4eX_slope vs run
χ² / ndf 1.131e−25 / 38
p0 540.8 ± 1.352
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 5.386e−14
Std Dev1.797e−21

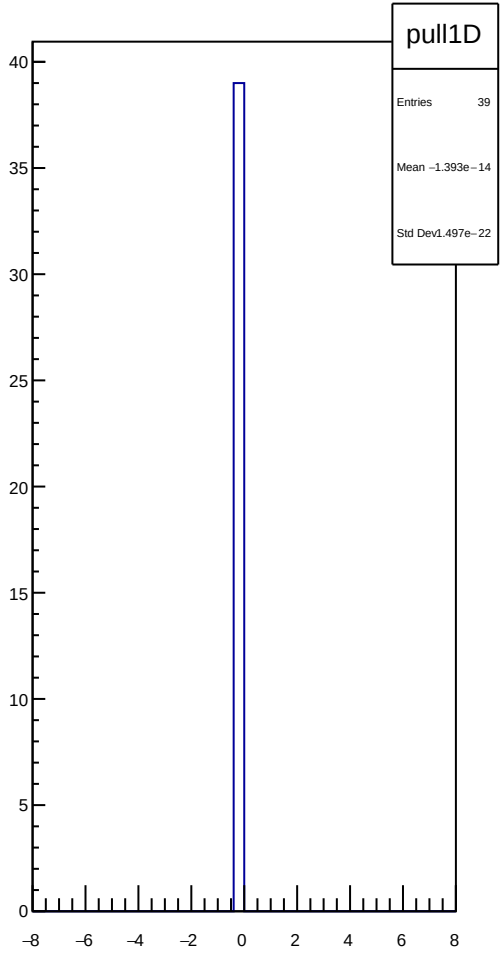

dit_atl2_11X12X_slope vs run
χ² / ndf 5.277e−26 / 38
p0 −201.8 ± 0.3712
−200
−201
−202
−203
−204
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 3.679e−14
Std Dev1.585e−21

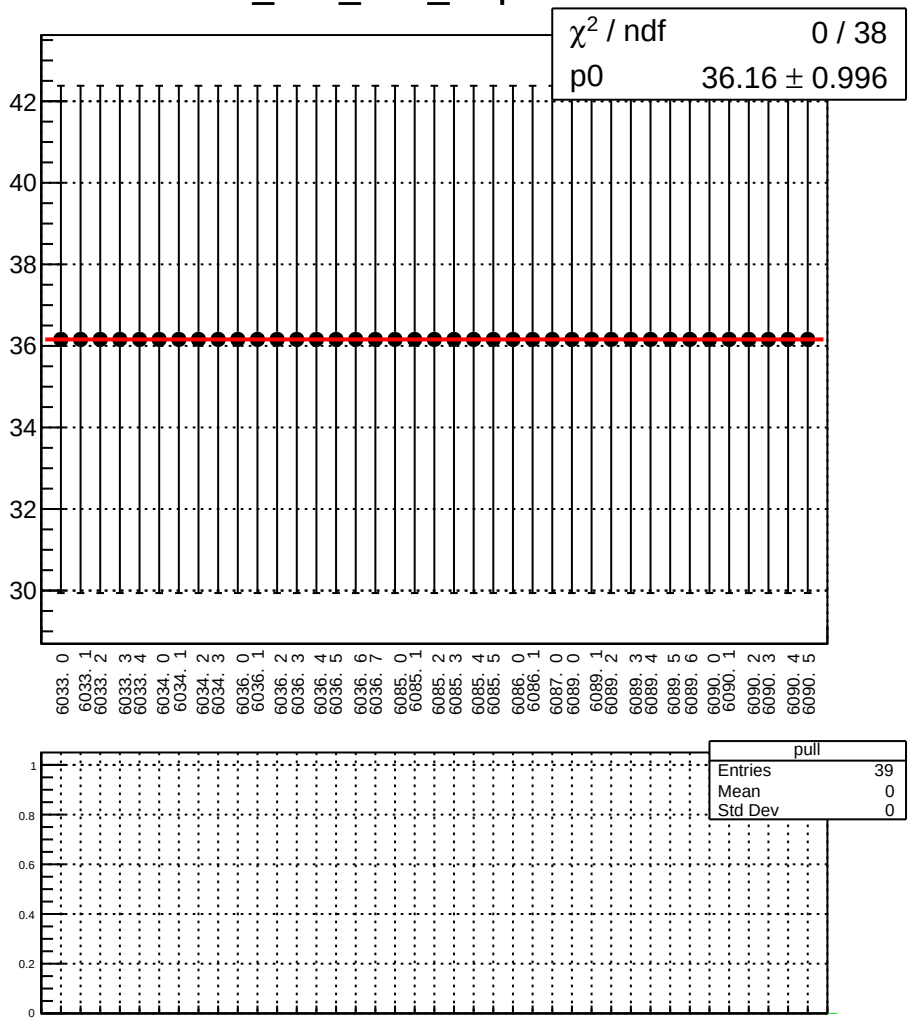

dit_atl2_4aY_slope vs run
χ² / ndf 1.849e−28 / 38
p0 −22.29 ± 0.7838
−18
−20
−22
−24
−26
−28
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 2.177e−15
Std Dev 5.919e−23

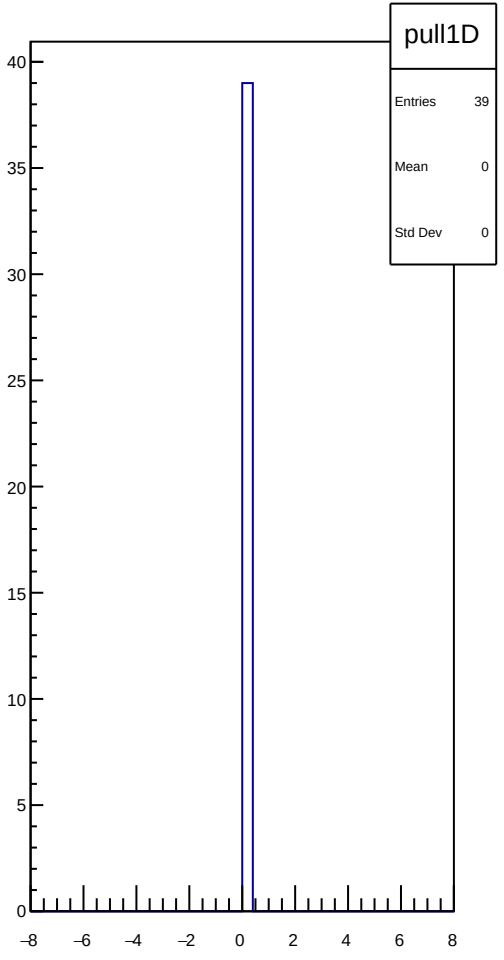

dit_atl2_4eY_slope vs run
χ² / ndf 1.351e−26 / 38
p0 114.8 ± 0.6112
119
118
117
116
115
114
113
112
111
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 39
Mean 19.5
Std Dev 11.25

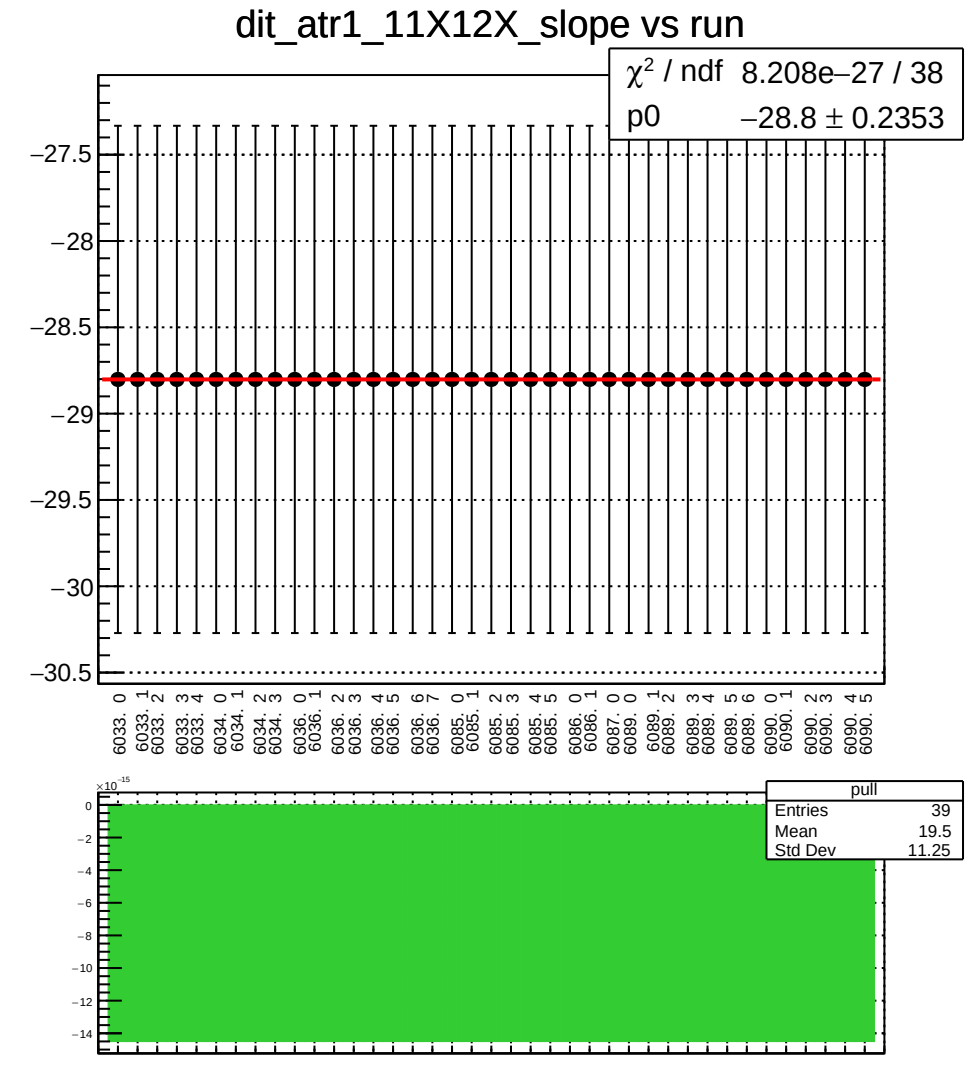

pull1D
Entries 39
Mean −1.861e−14
Std Dev7.023e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

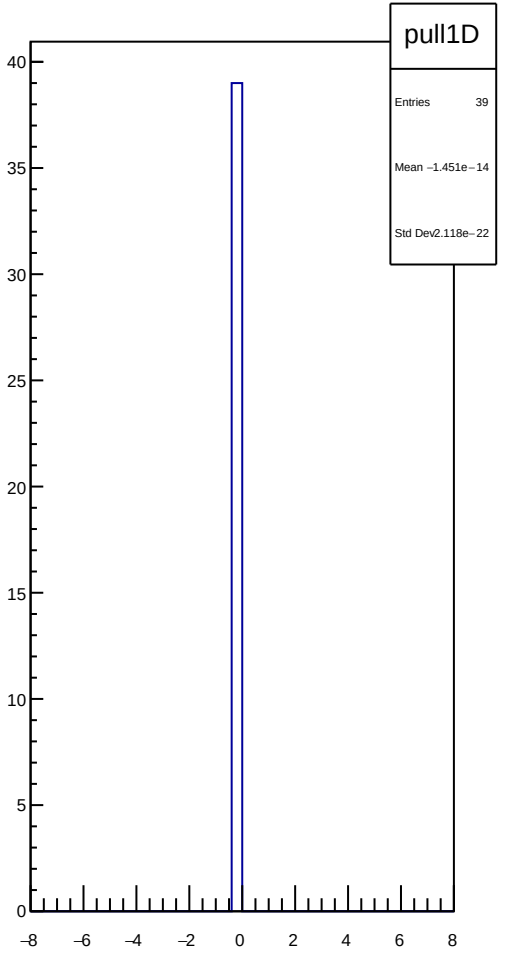

dit_atr1_4aX_slope vs run
χ² / ndf 7.565e−27 / 38
p0 −81.39 ± 1.144
−74
−76
−78
−80
−82
−84
−86
−88
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 39
Mean 19.5
Std Dev 11.25

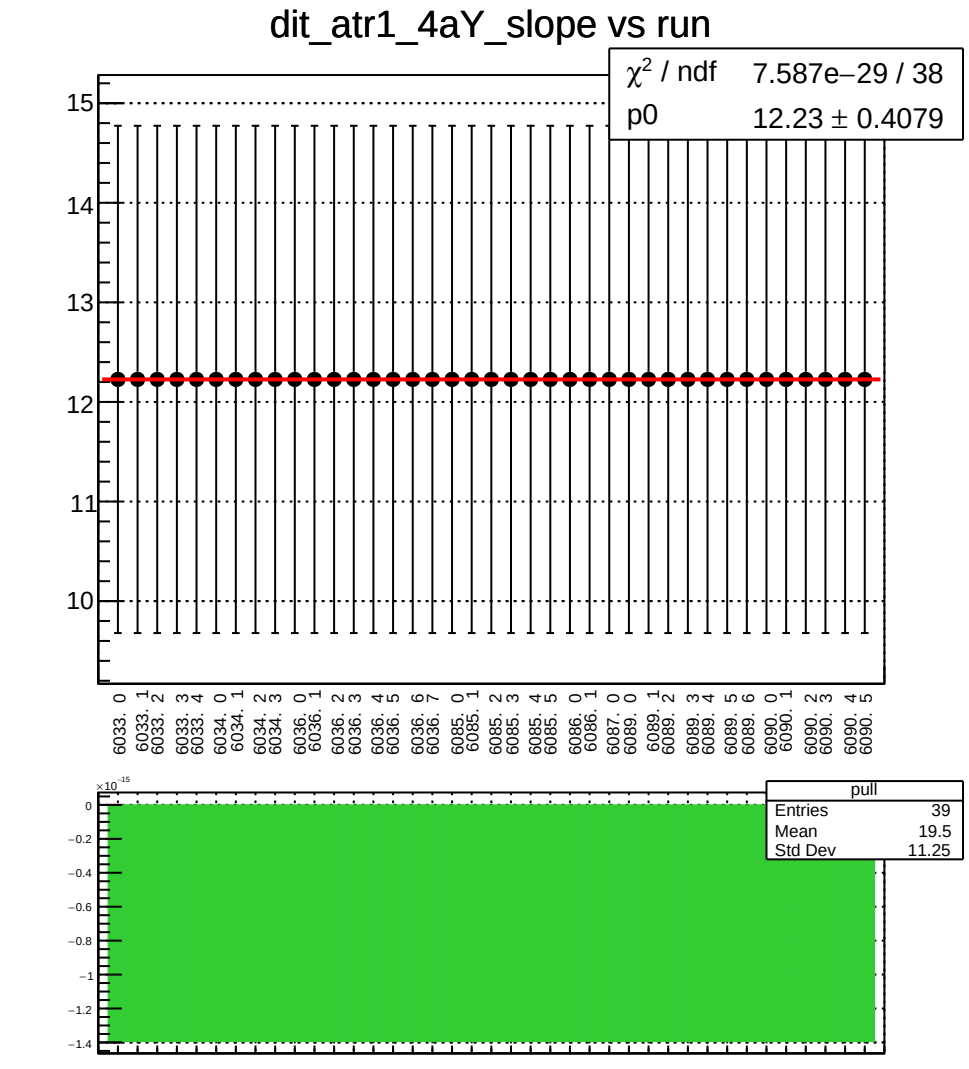

pull1D
Entries 39
Mean −1.393e−14
Std Dev1.497e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_4eX_slope vs run
χ^2 / ndf 0 / 38
p0 36.16 ± 0.996
42
40
38
36
34
32
30
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 39
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_11X12X_slope vs run
χ² / ndf 8.208e−27 / 38
p0 −28.8 ± 0.2353
−27.5
−28
−28.5
−29
−29.5
−30
−30.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −1.451e−14
Std Dev 2.118e−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 7.587e−29 / 38
p0 12.23 ± 0.4079
15
14
13
12
11
10
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
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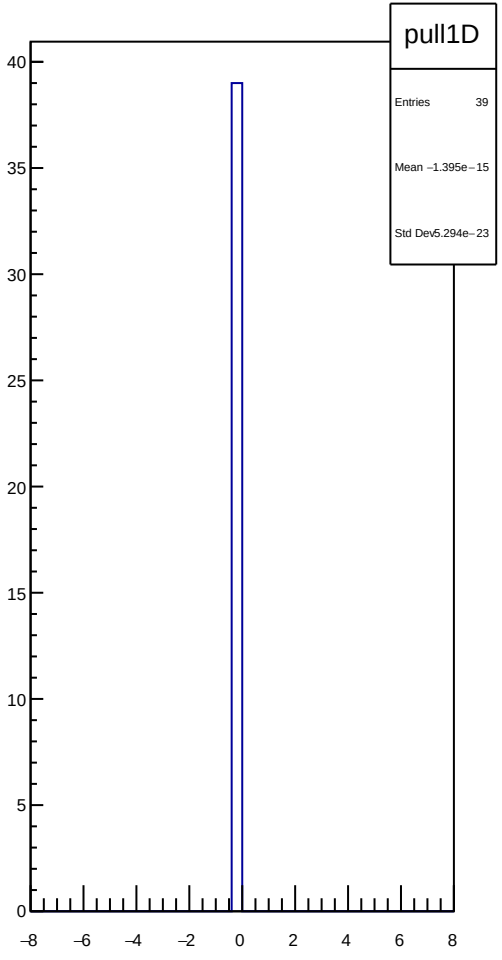
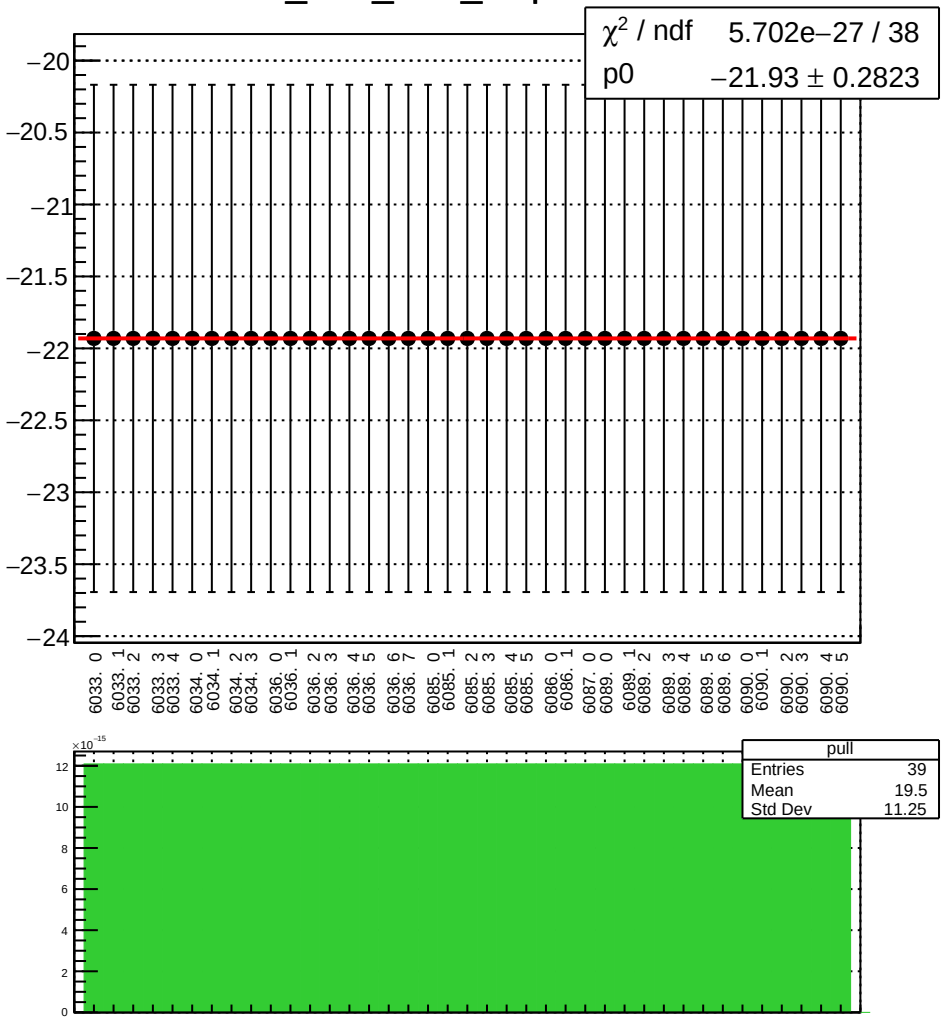
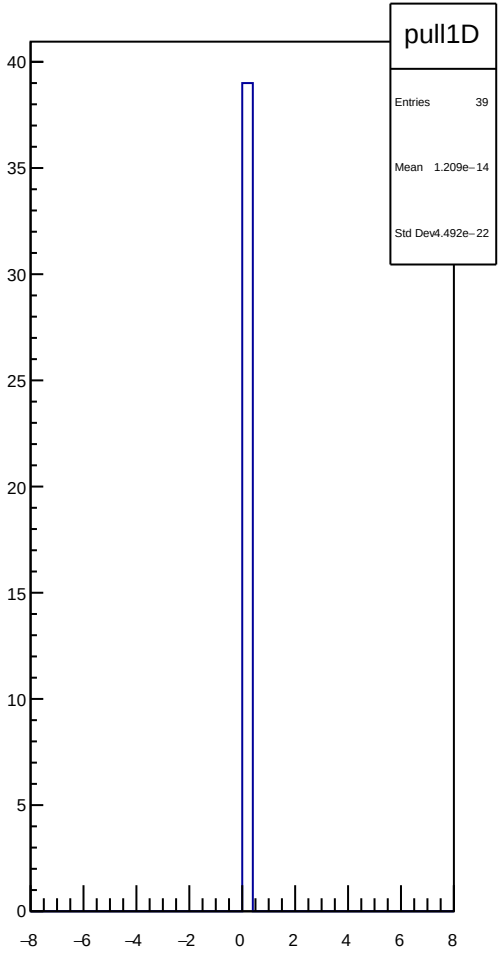
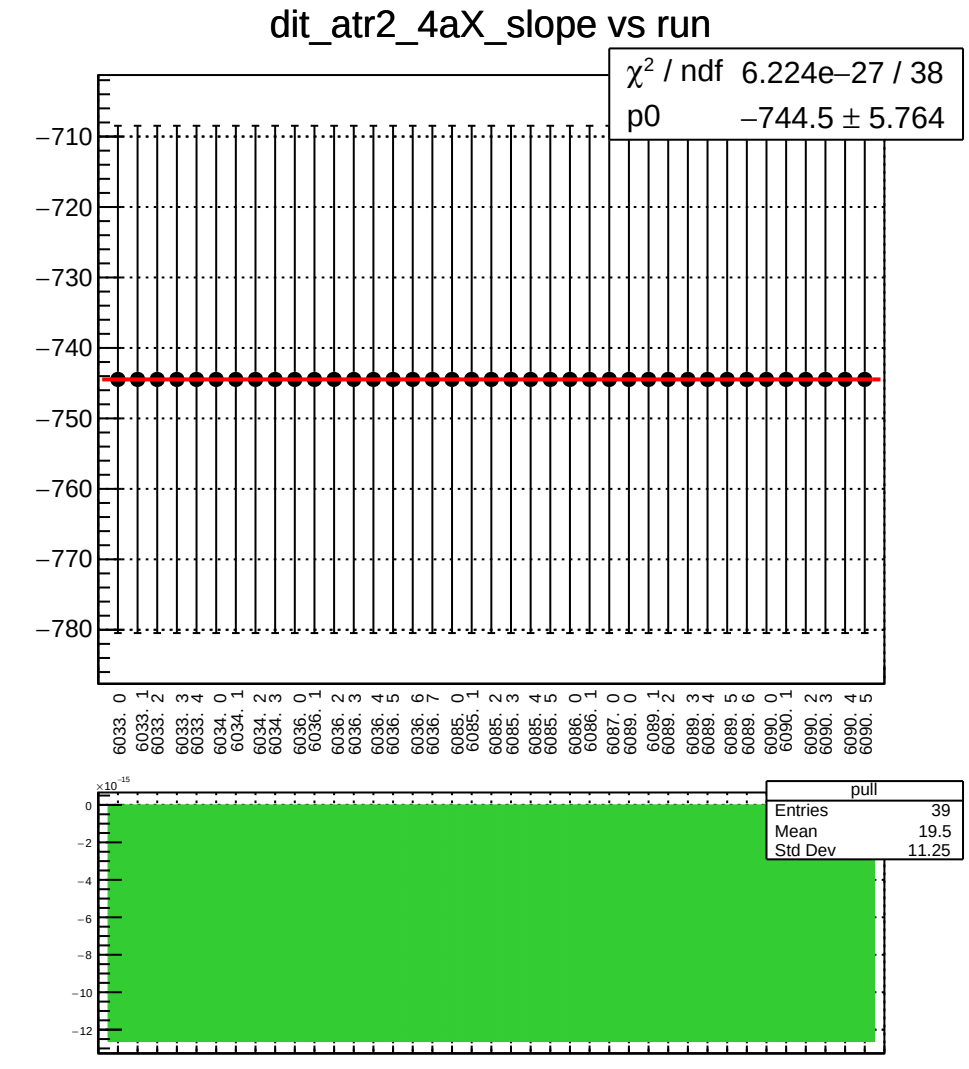
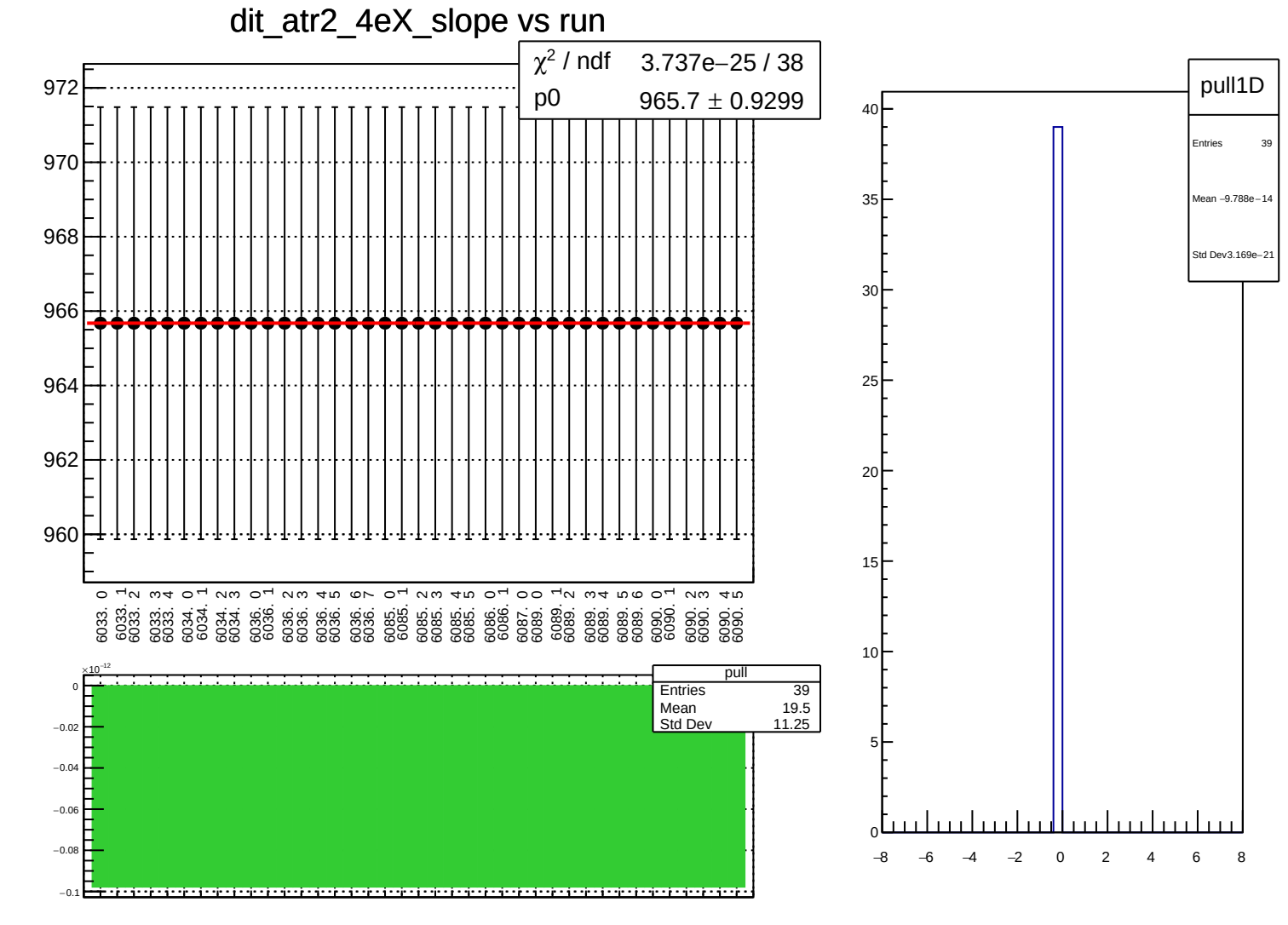
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 39
Mean 19.5
Std Dev 11.25

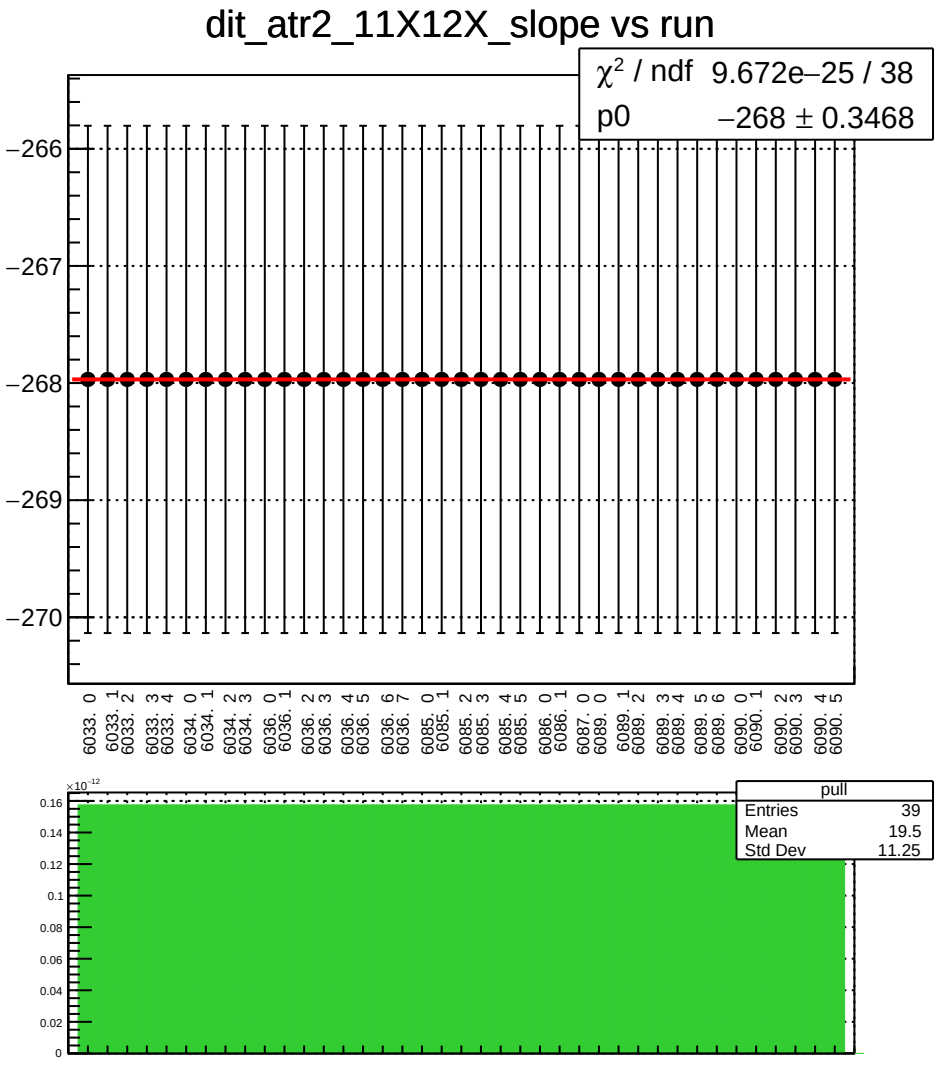

pull1D
Entries 39
Mean −1.395e−15
Std Dev5.294e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

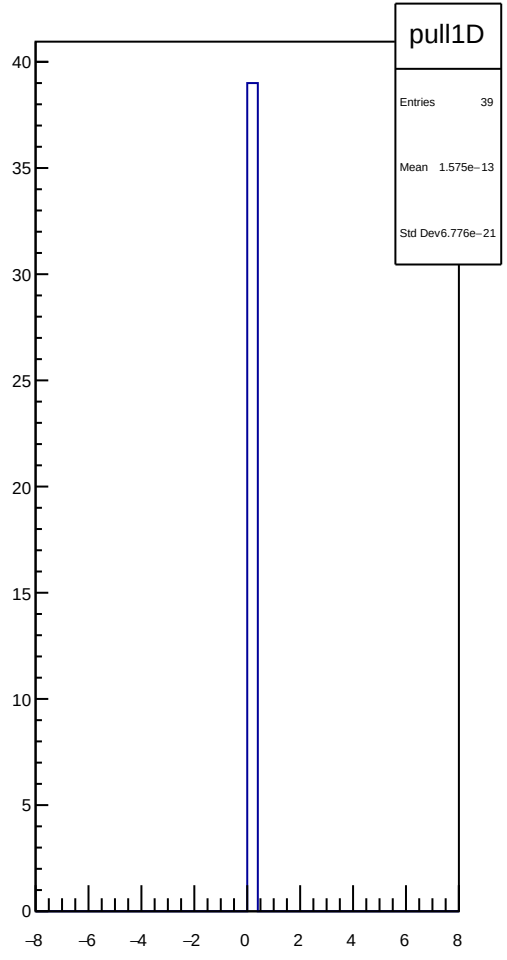

dit_atr1_4eY_slope vs run
χ² / ndf 5.702e−27 / 38
p0 −21.93 ± 0.2823
−20
−20.5
−21
−21.5
−22
−22.5
−23
−23.5
−24
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 39
Mean 19.5
Std Dev 11.25
0
2
4
6
8
10
12

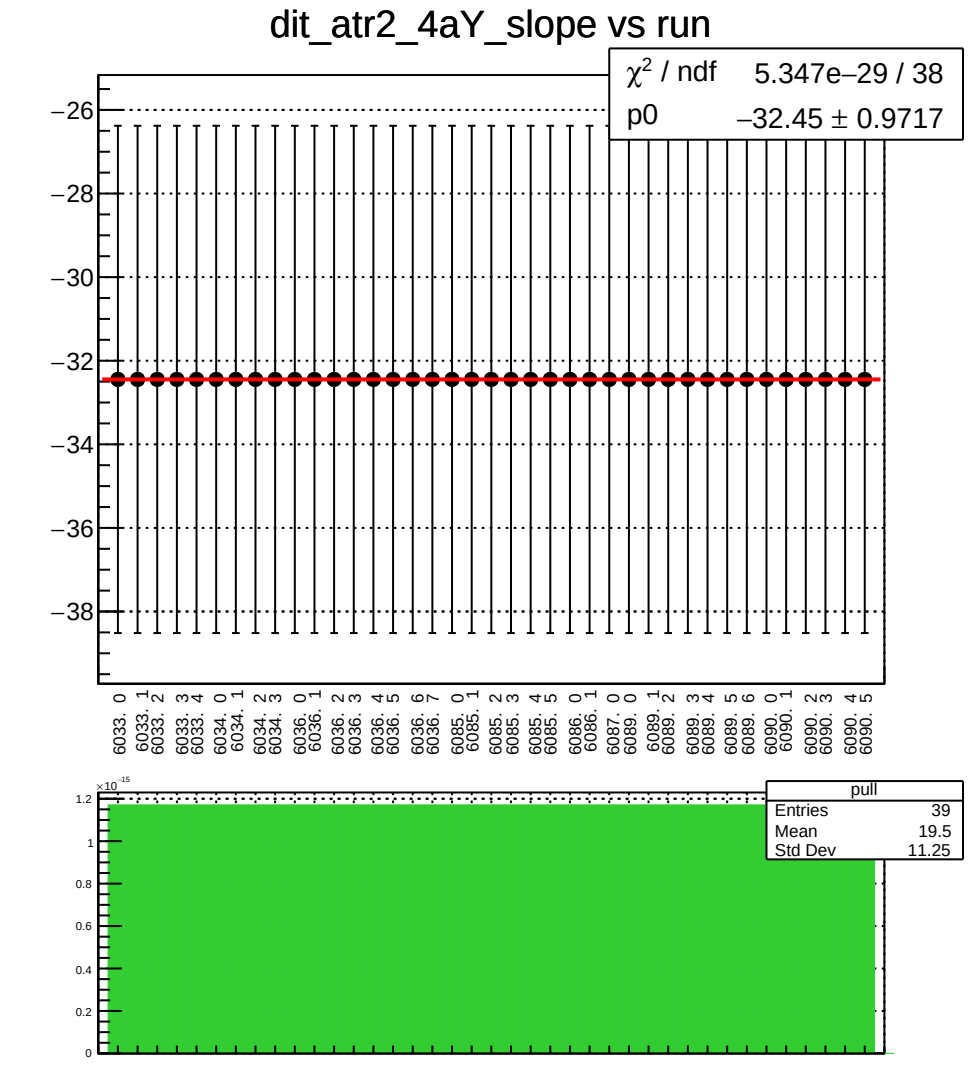

pull1D
Entries 39
Mean 1.209e−14
Std Dev4.492e−22
0
5
10
15
20
25
30
35
40
−8
−6
−4
−2
0
2
4
6
8

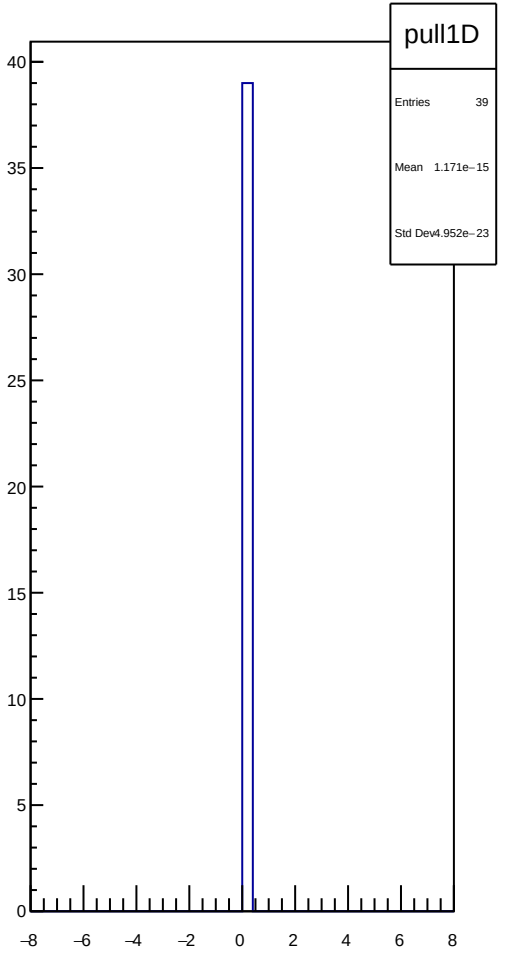

dit_atr2_4aX_slope vs run
χ² / ndf 6.224e−27 / 38
p0 −744.5 ± 5.764
−710
−720
−730
−740
−750
−760
−770
−780
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.263e−14
Std Dev5.187e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

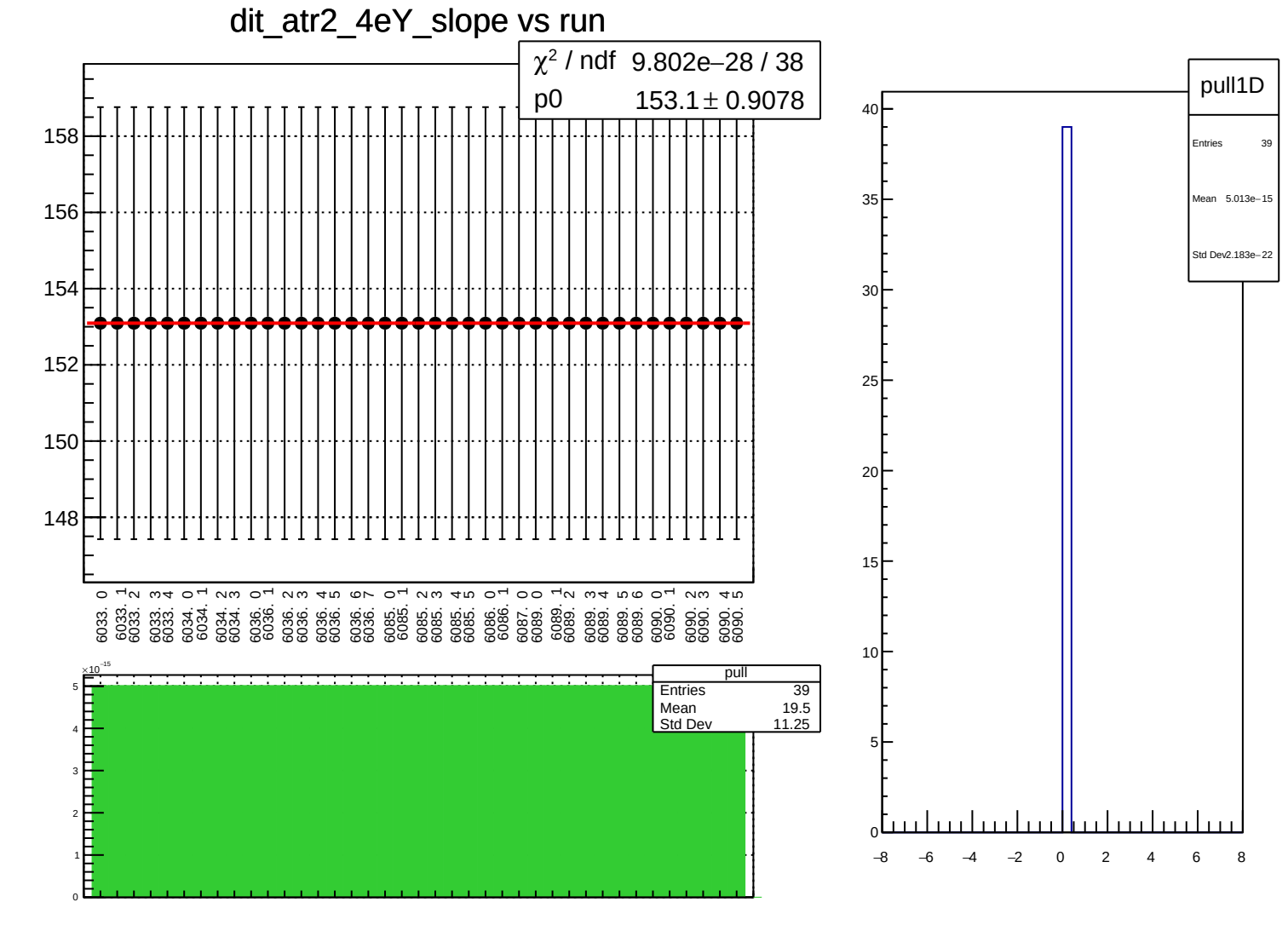

dit_atr2_4eX_slope vs run
χ² / ndf 3.737e−25 / 38
p0 965.7 ± 0.9299
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −9.788e−14
Std Dev3.169e−21

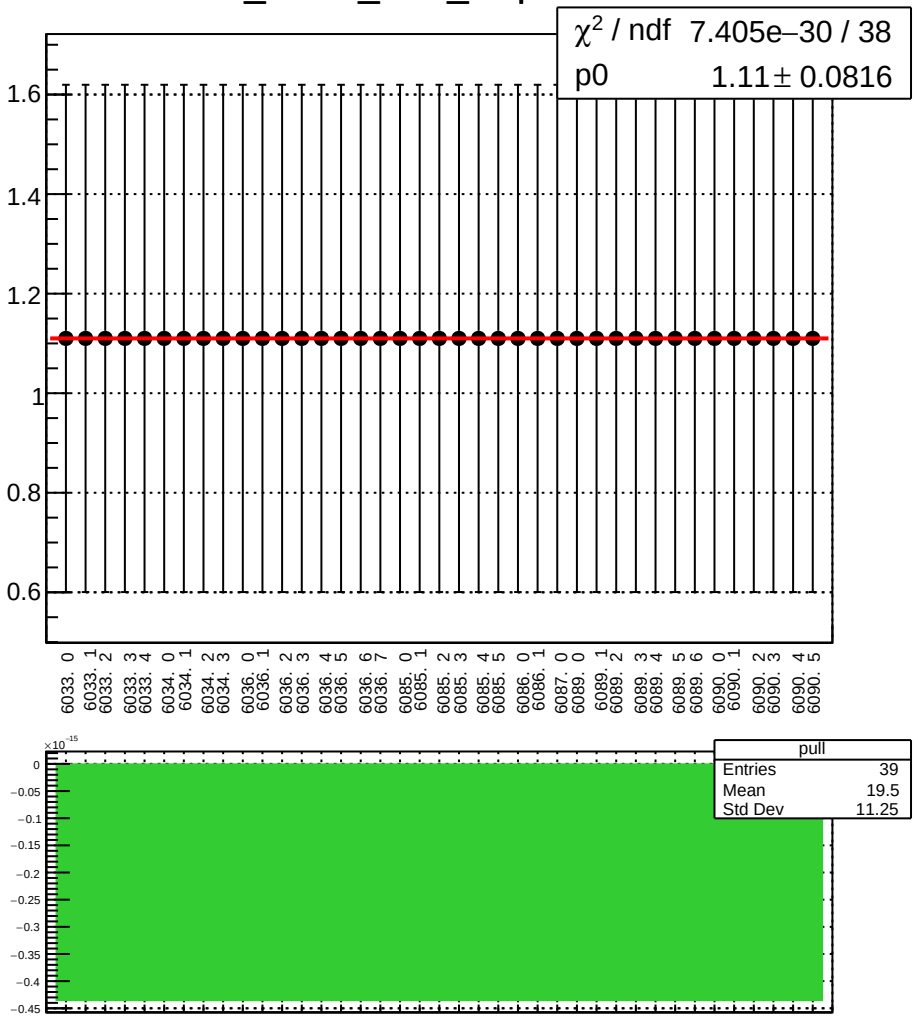

dit_atr2_11X12X_slope vs run
χ² / ndf 9.672e−25 / 38
p0 −268 ± 0.3468
−266
−267
−268
−269
−270
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 39
Mean 19.5
Std Dev 11.25

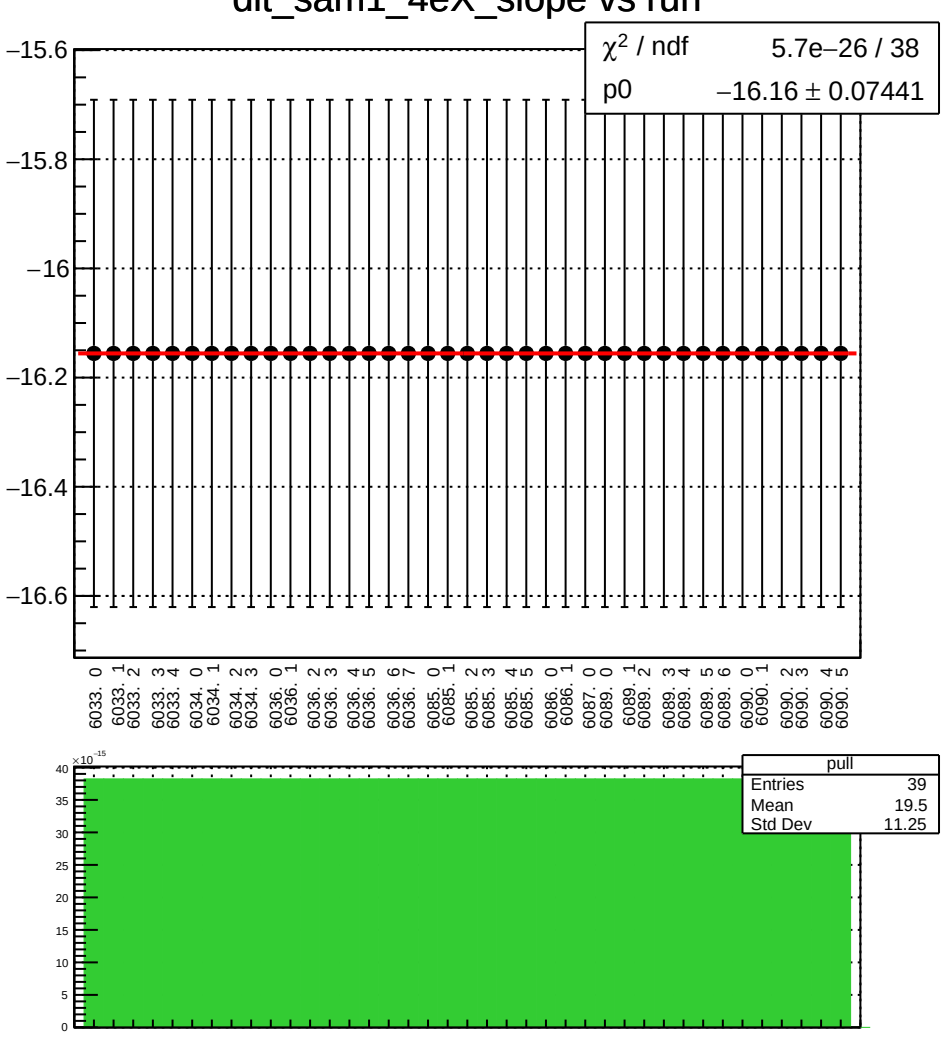

pull1D
Entries 39
Mean 1.575e−13
Std Dev6.776e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

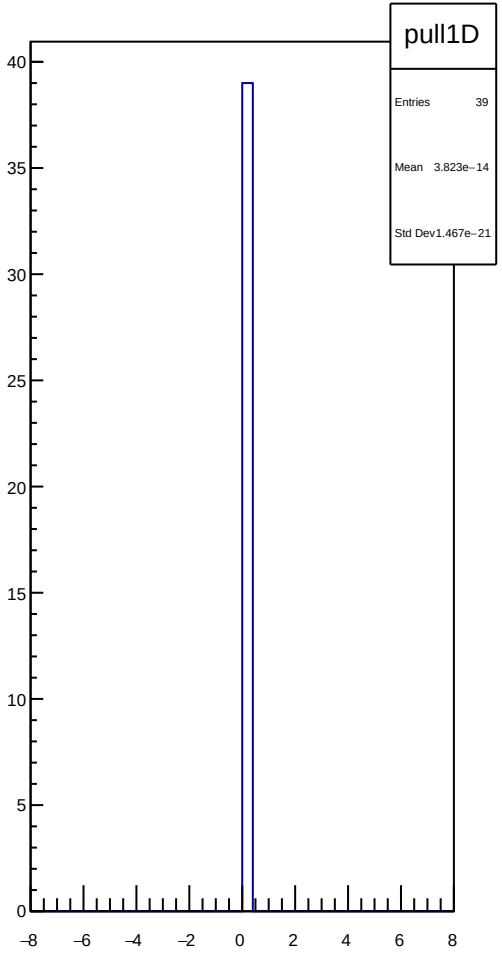

dit_atr2_4aY_slope vs run
χ² / ndf 5.347e−29 / 38
p0 −32.45 ± 0.9717
−26
−28
−30
−32
−34
−36
−38
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 39
Mean 19.5
Std Dev 11.25

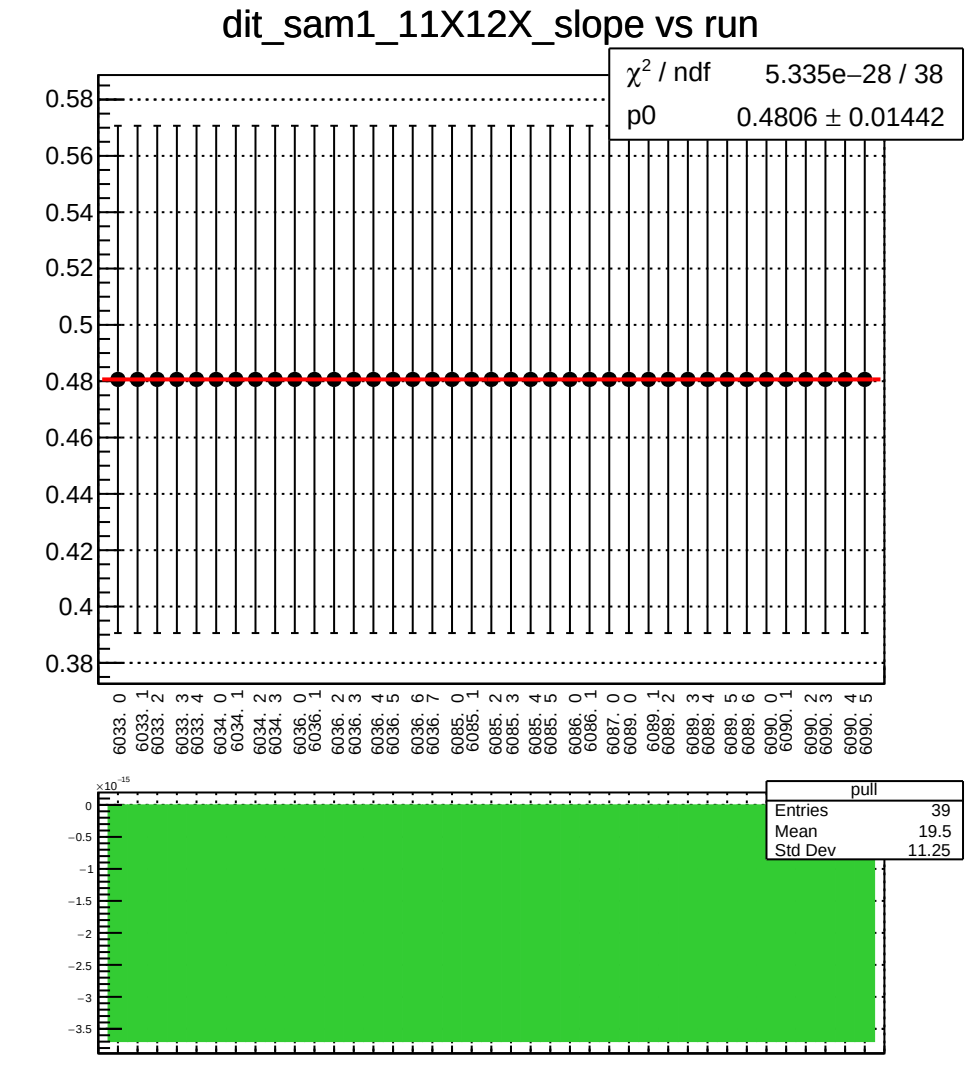

pull1D
Entries 39
Mean 1.171e−15
Std Dev 4.952e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

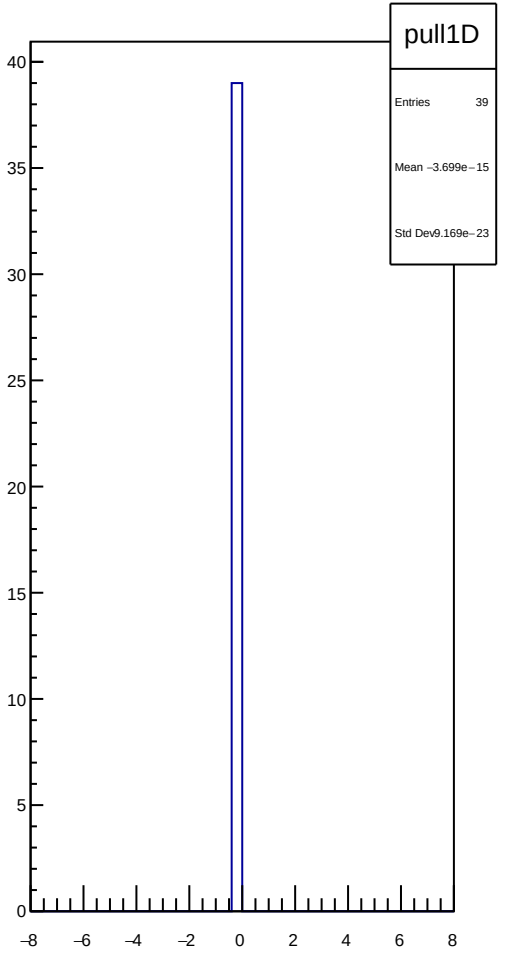

dit_atr2_4eY_slope vs run
χ² / ndf 9.802e−28 / 38
p0 153.1 ± 0.9078
158
156
154
152
150
148
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
5
4
3
2
1
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 5.013e−15
Std Dev 2.183e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

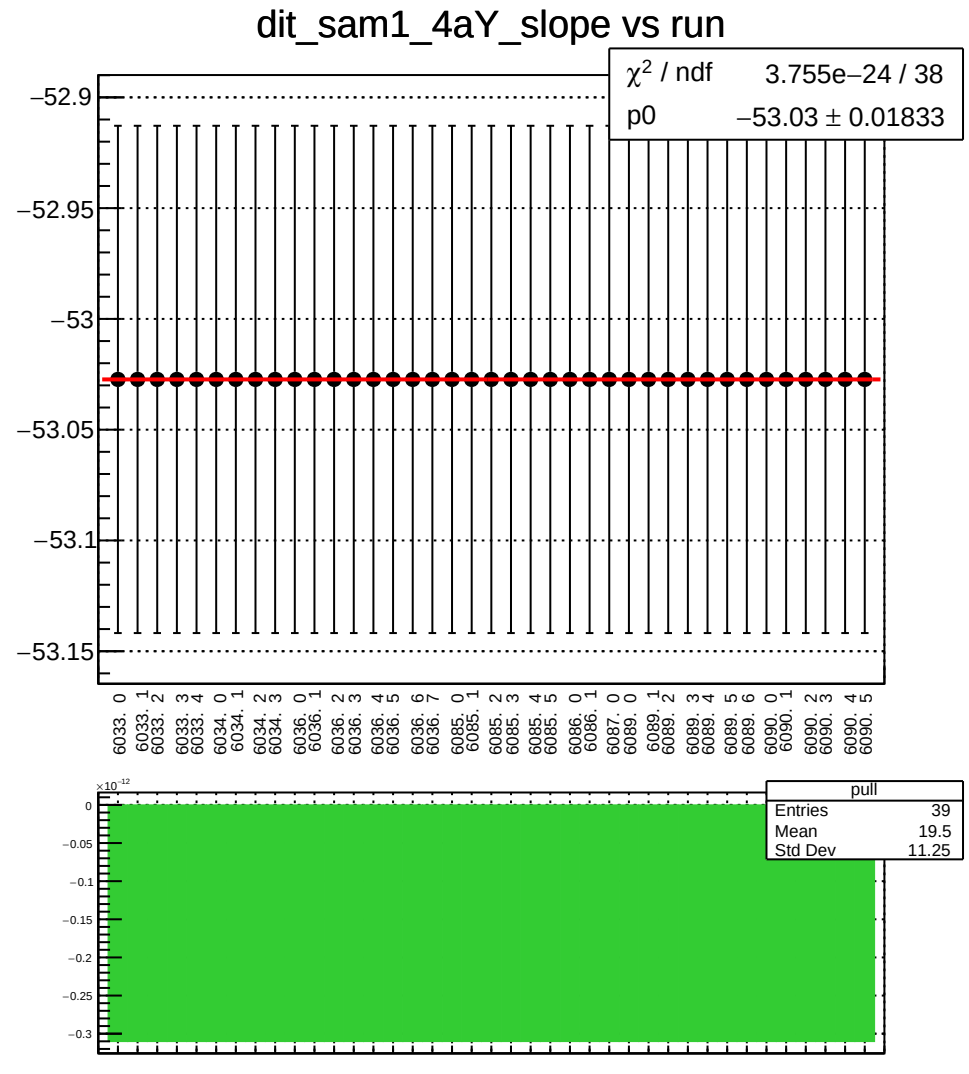

dit_sam1_4aX_slope vs run
χ² / ndf 7.405e−30 / 38
p0 1.11 ± 0.0816
1.6
1.4
1.2
1
0.8
0.6
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −4.358e−16
Std Dev1.046e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

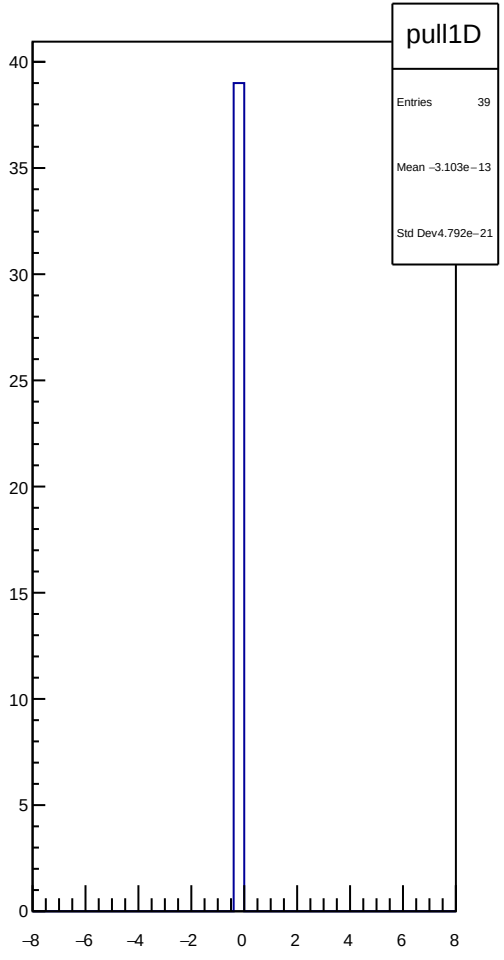

dit_sam1_4eX_slope vs run
χ² / ndf 5.7e−26 / 38
p0 −16.16 ± 0.07441
−15.6
−15.8
−16
−16.2
−16.4
−16.6
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
×10⁻¹⁵
40
35
30
25
20
15
10
5
0

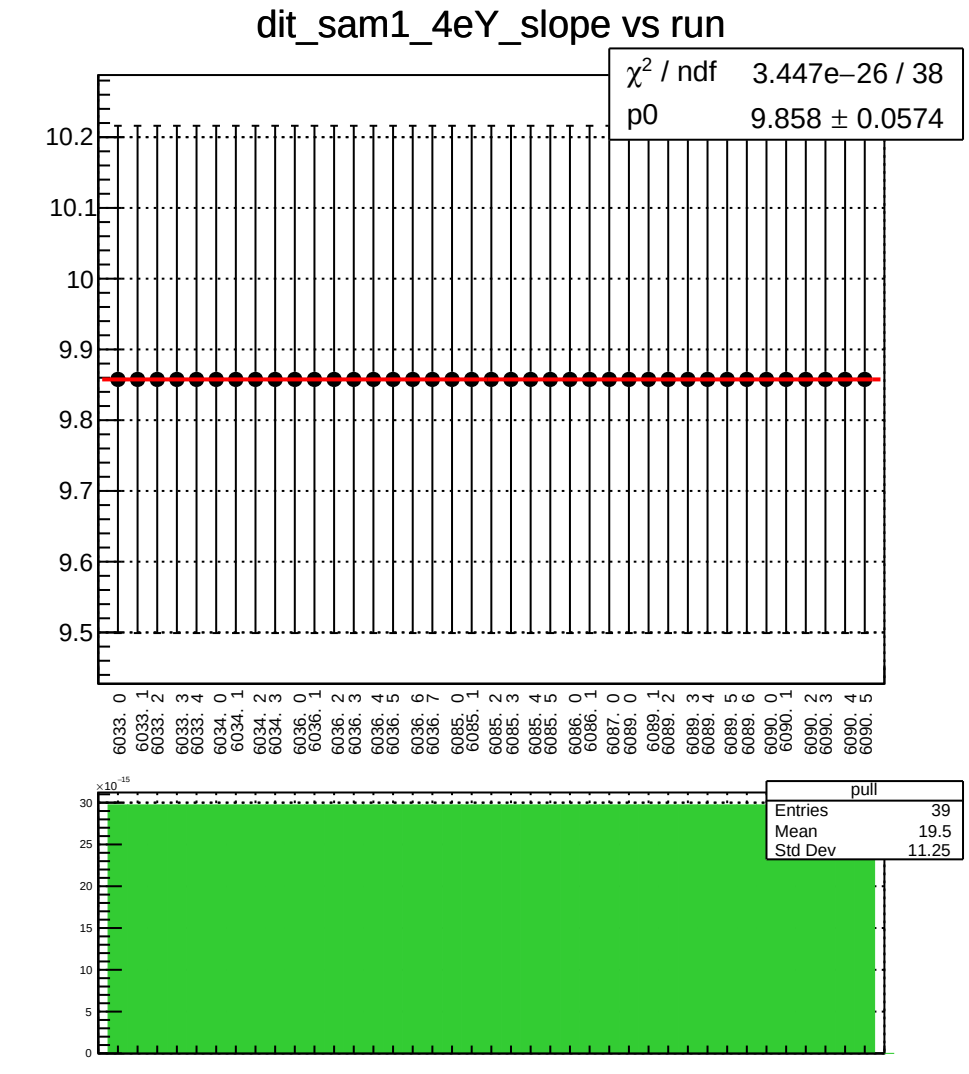

pull1D
Entries 39
Mean 3.823e−14
Std Dev1.467e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

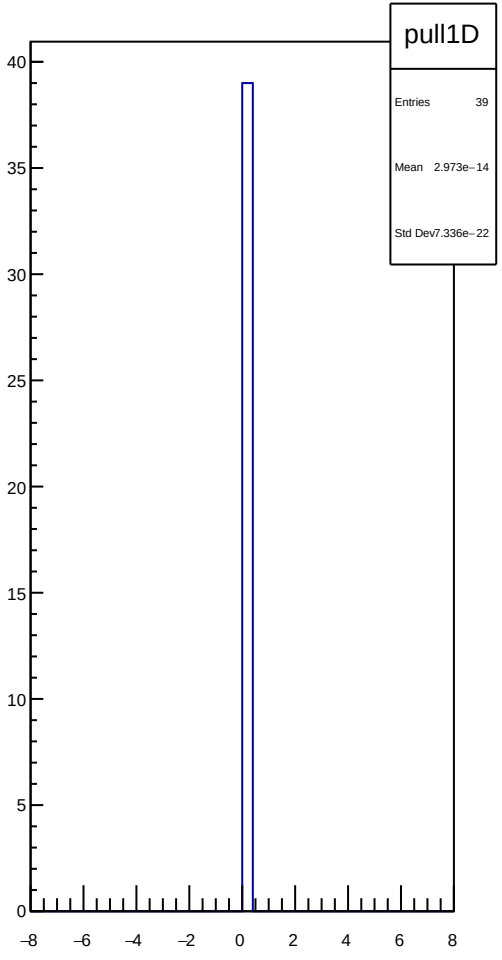

dit_sam1_11X12X_slope vs run
χ² / ndf 5.335e−28 / 38
p0 0.4806 ± 0.01442
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 39
Mean 19.5
Std Dev 11.25

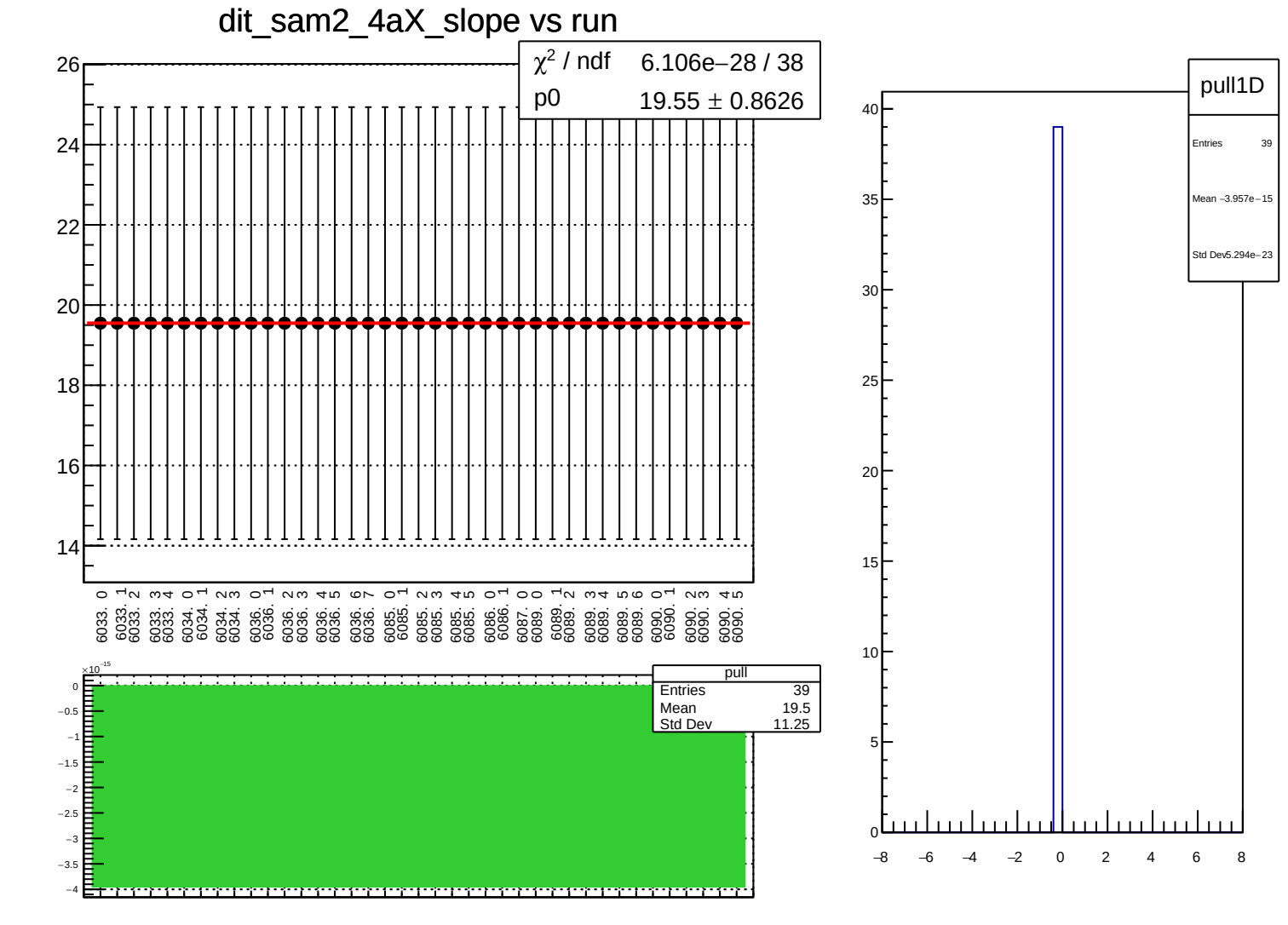

pull1D
Entries 39
Mean −3.699e−15
Std Dev9.169e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

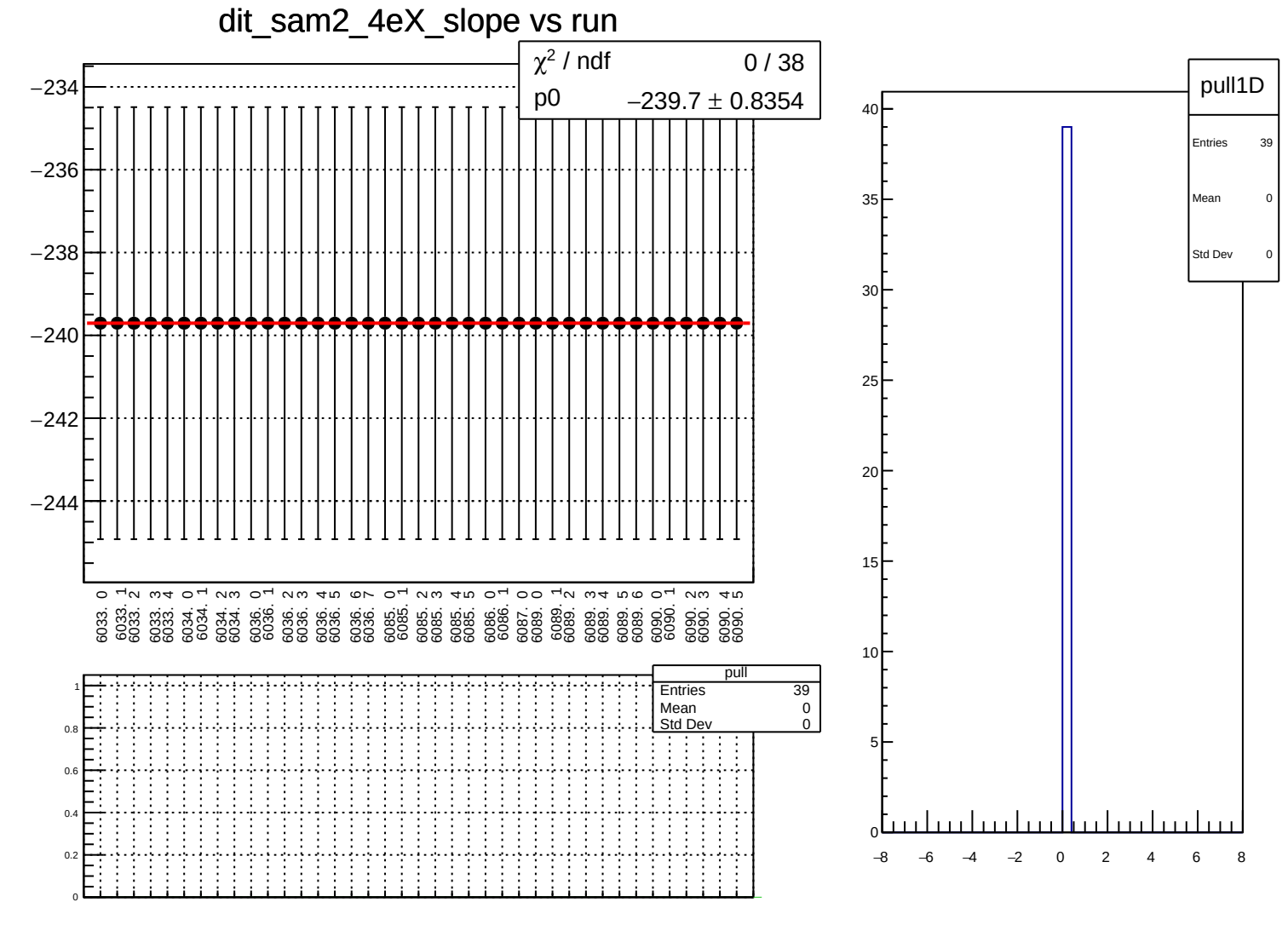

dit_sam1_4aY_slope vs run
χ² / ndf 3.755e−24 / 38
p0 −53.03 ± 0.01833
−52.9
−52.95
−53
−53.05
−53.1
−53.15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −3.103e−13
Std Dev4.792e−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 3.447e−26 / 38
p0 9.858 ± 0.0574
10.2
10.1
10
9.9
9.8
9.7
9.6
9.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
30
25
20
15
10
5
0
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean 2.973e−14
Std Dev7.336e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam2_4aX_slope vs run
χ² / ndf 6.106e−28 / 38
p0 19.55 ± 0.8626
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −3.957e−15
Std Dev 5.294e−23


dit_sam2_4eX_slope vs run
χ² / ndf 0 / 38
p0 −239.7 ± 0.8354
−234
−236
−238
−240
−242
−244
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 39
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
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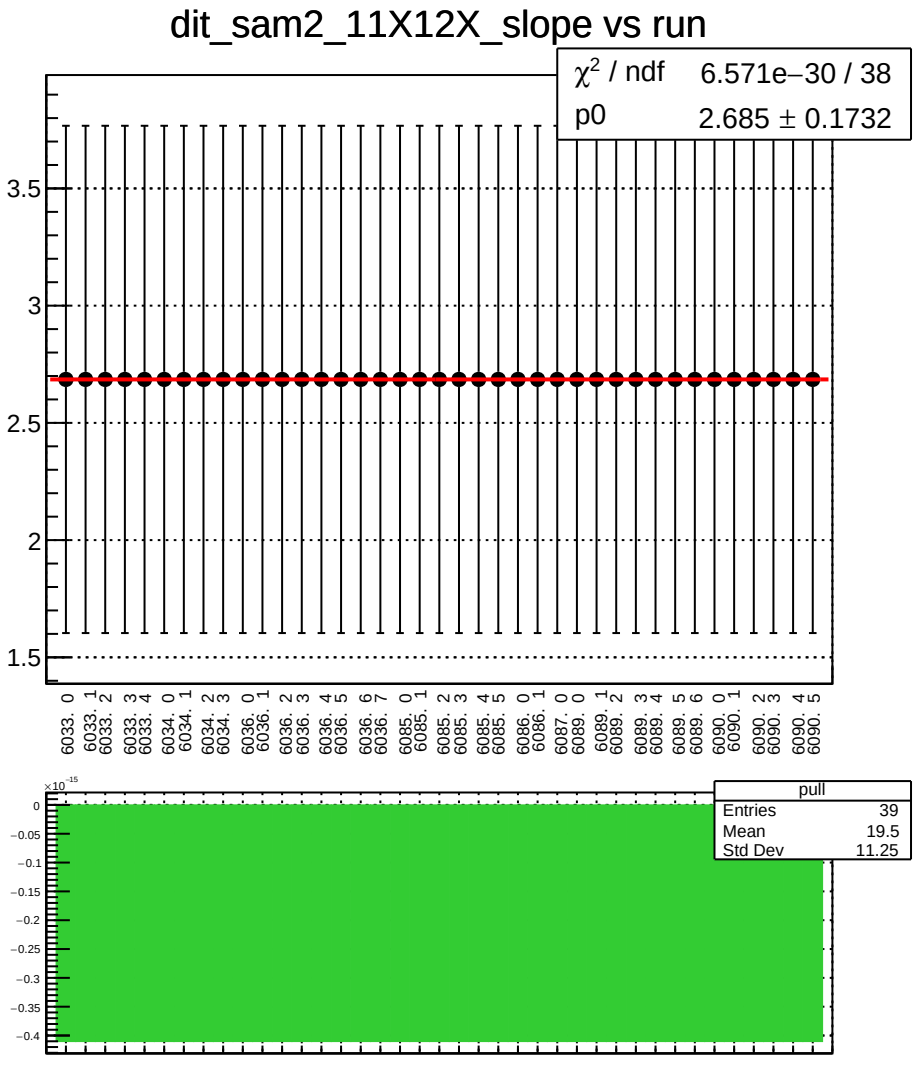
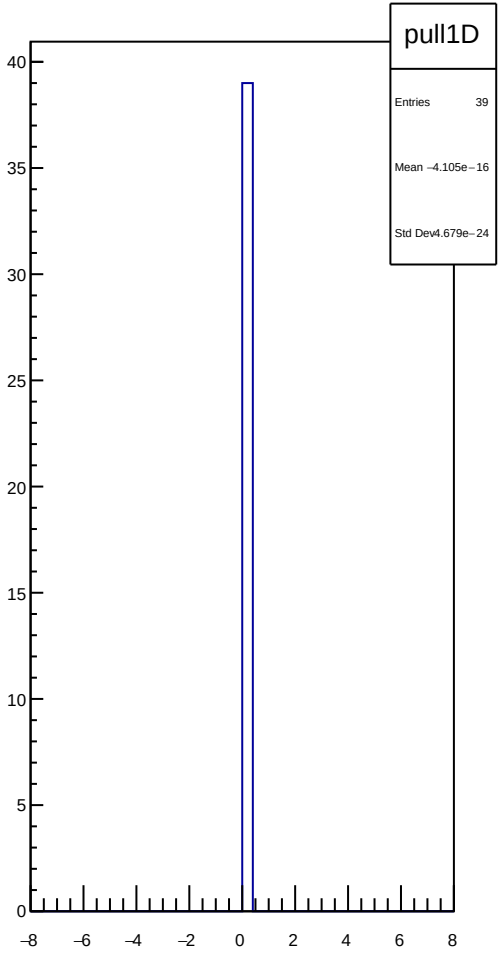
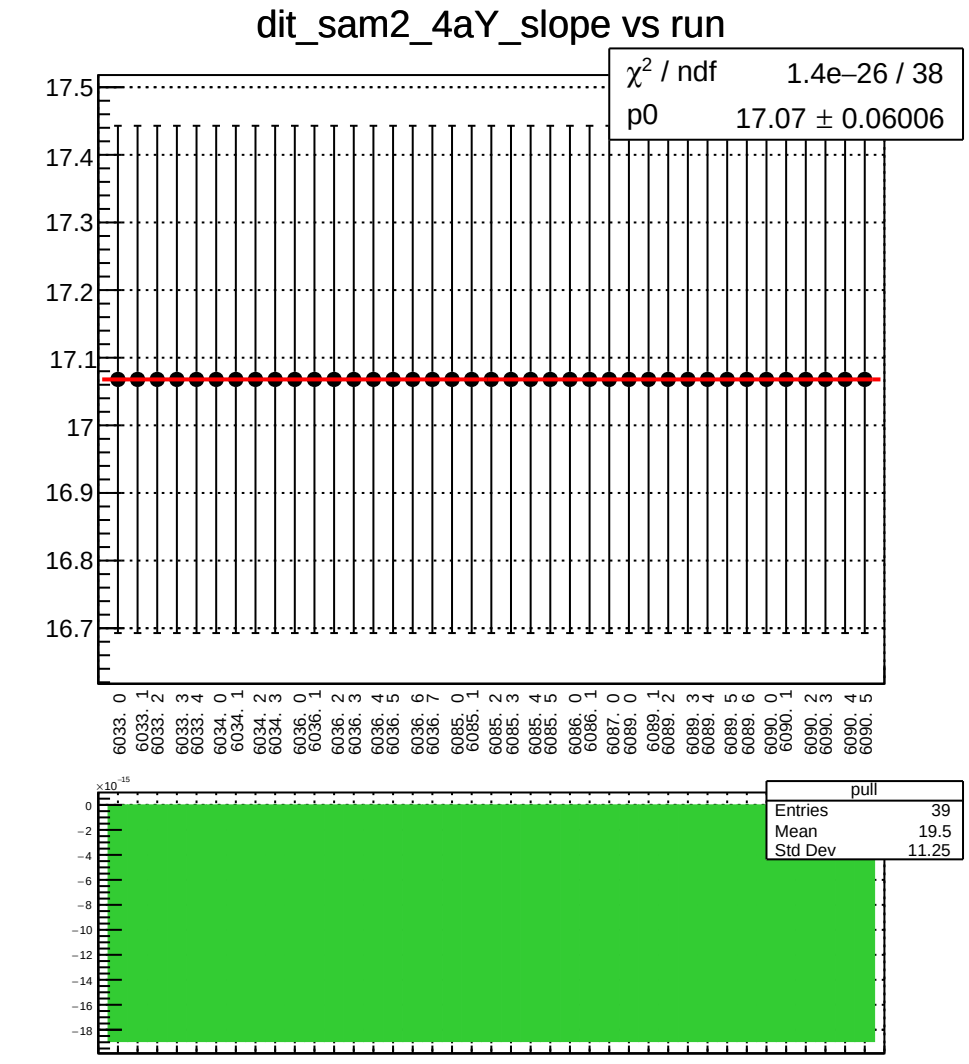
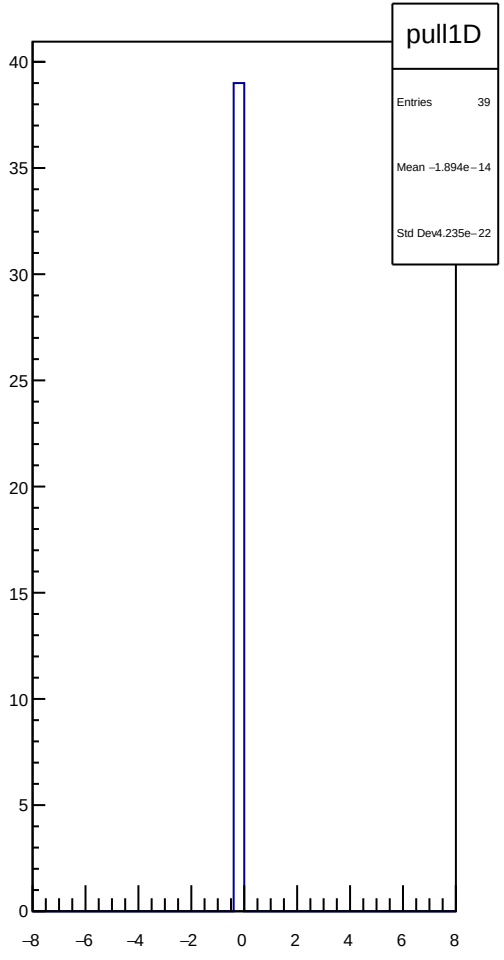
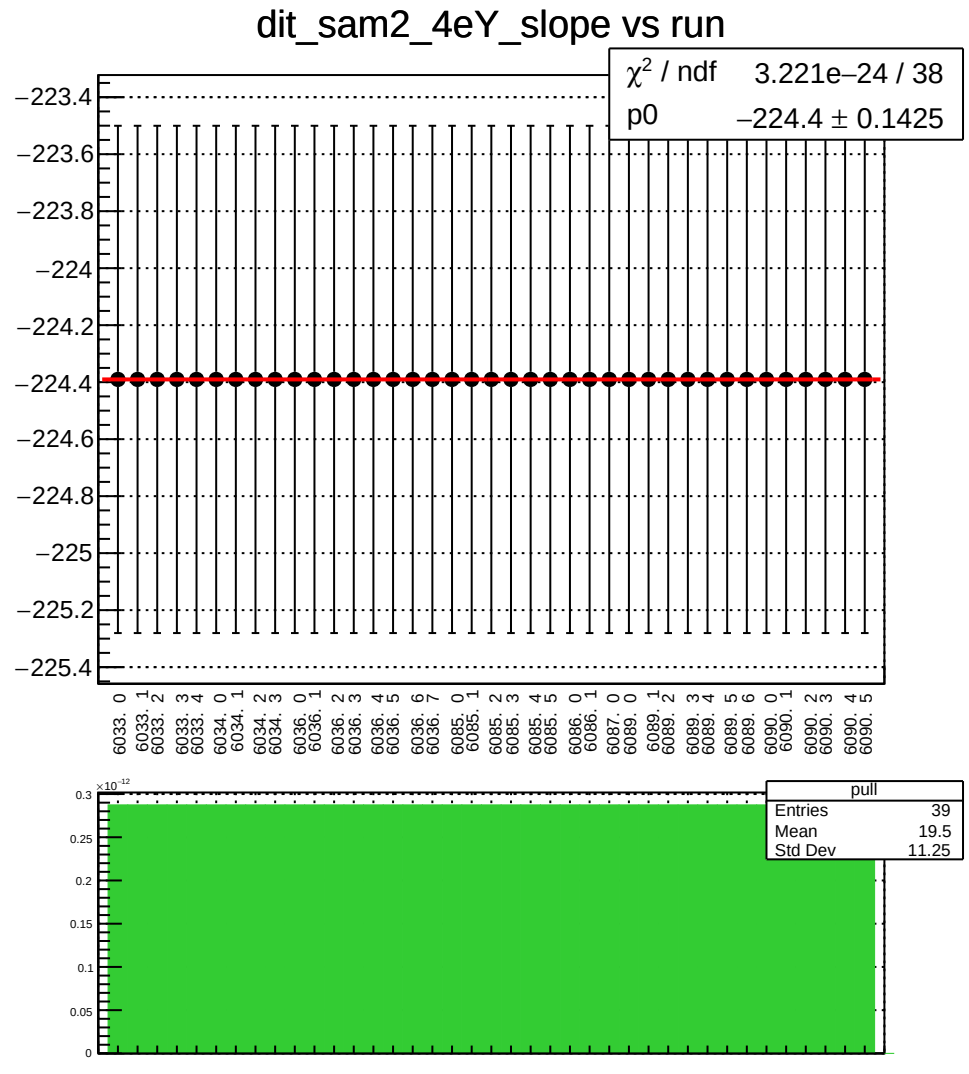
2
4
6
8

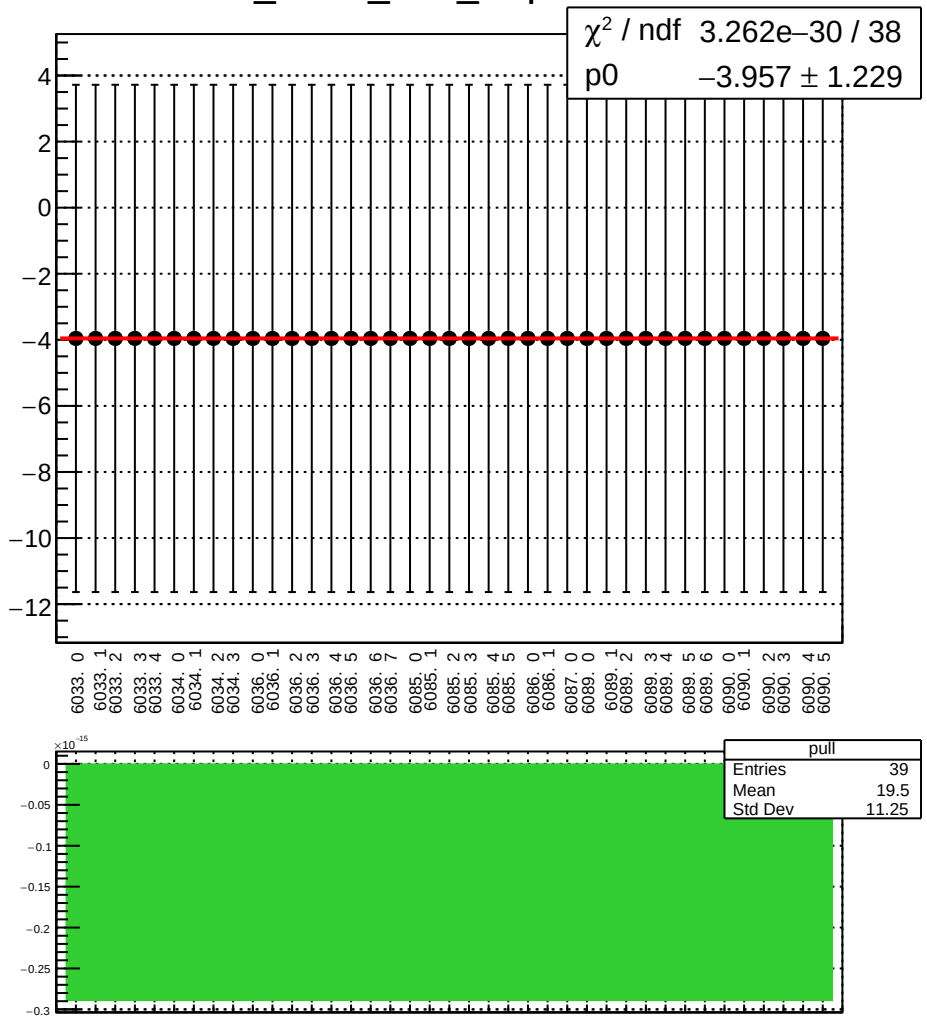

dit_sam2_11X12X_slope vs run
χ² / ndf 6.571e−30 / 38
p0 2.685 ± 0.1732
3.5
3
2.5
2
1.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 39
Mean 19.5
Std Dev 11.25

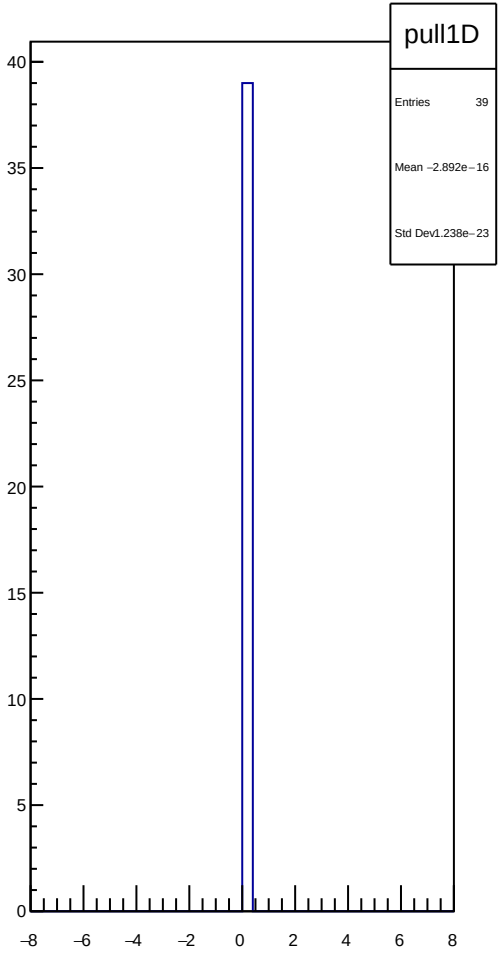

pull1D
Entries 39
Mean −4.105e−16
Std Dev 4.679e−24
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

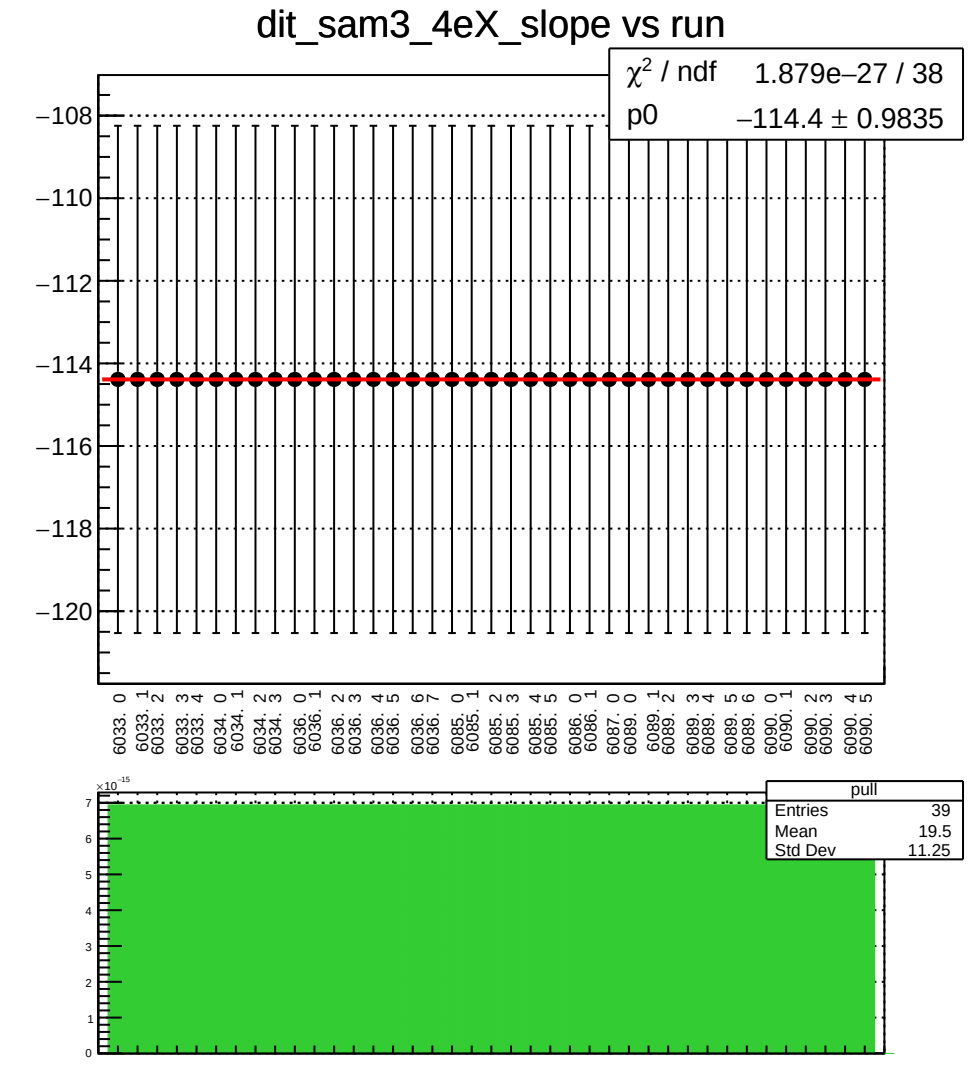

dit_sam2_4aY_slope vs run
χ² / ndf 1.4e−26 / 38
p0 17.07 ± 0.06006
17.5
17.4
17.3
17.2
17.1
17
16.9
16.8
16.7
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 39
Mean 19.5
Std Dev 11.25

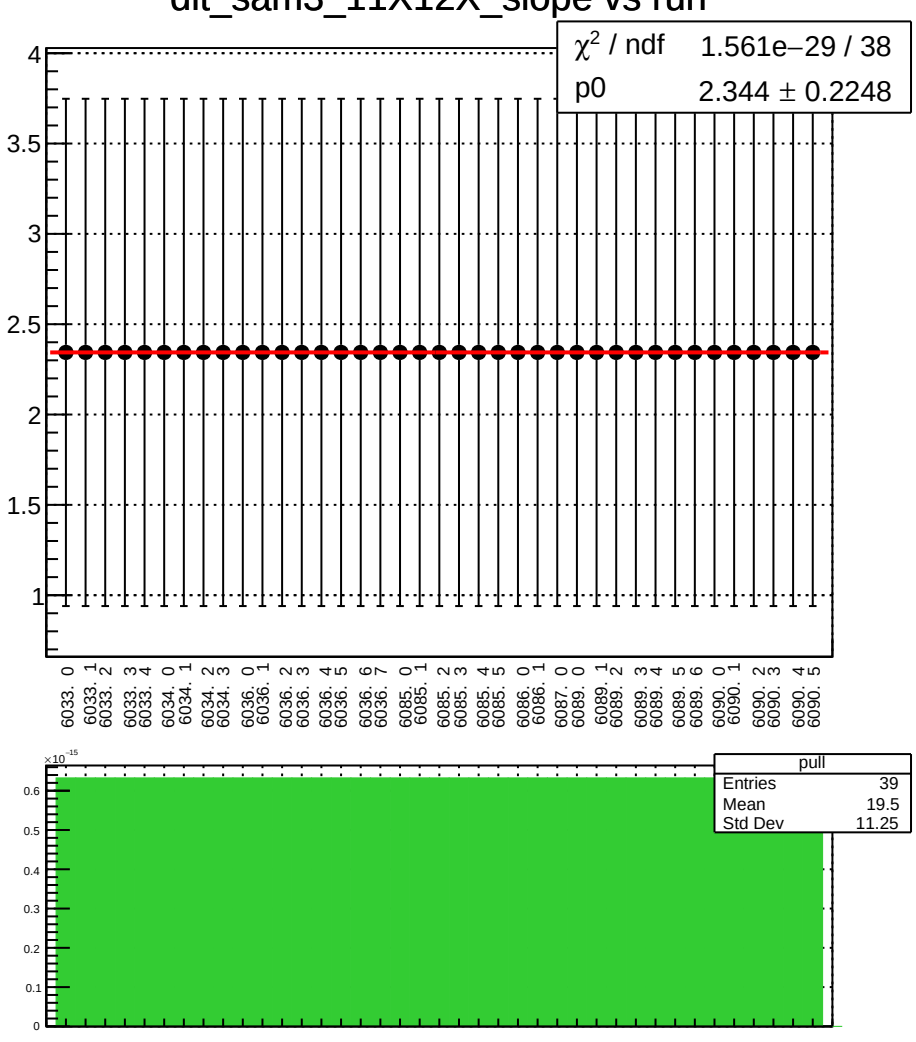

pull1D
Entries 39
Mean −1.894e−14
Std Dev4.235e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

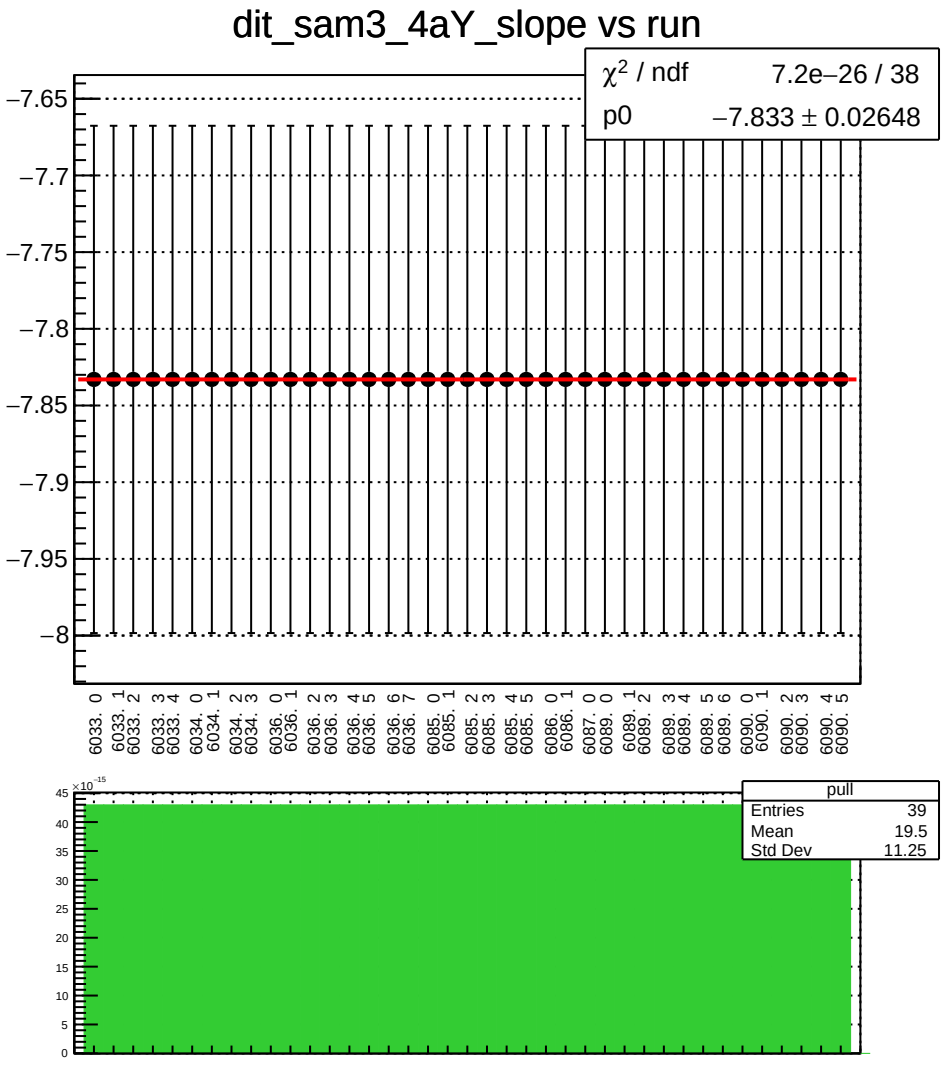

dit_sam2_4eY_slope vs run
χ² / ndf 3.221e−24 / 38
p0 −224.4 ± 0.1425
−223.4
−223.6
−223.8
−224
−224.2
−224.4
−224.6
−224.8
−225
−225.2
−225.4
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 2.874e−13
Std Dev1.124e−20
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

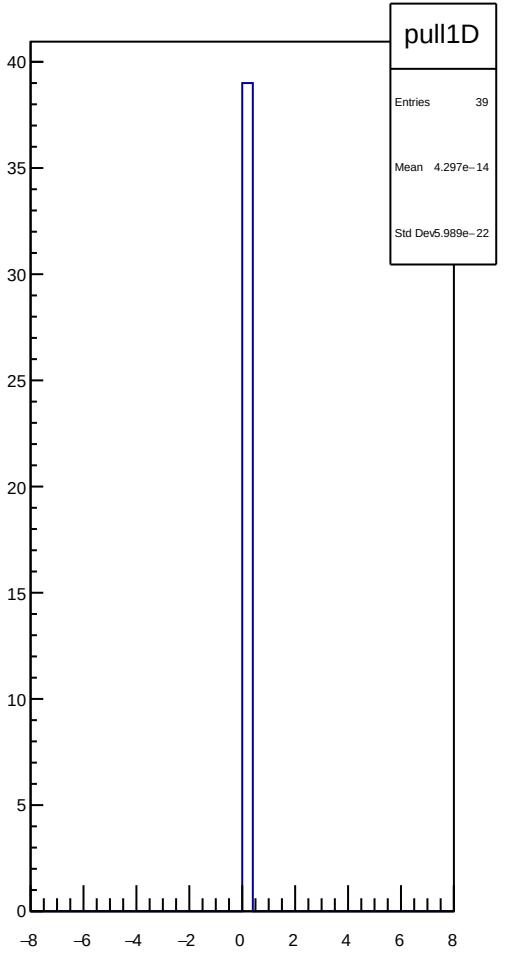

dit_sam3_4aX_slope vs run
χ² / ndf 3.262e−30 / 38
p0 −3.957 ± 1.229
4
2
0
−2
−4
−6
−8
−10
−12
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 39
Mean 19.5
Std Dev 11.25

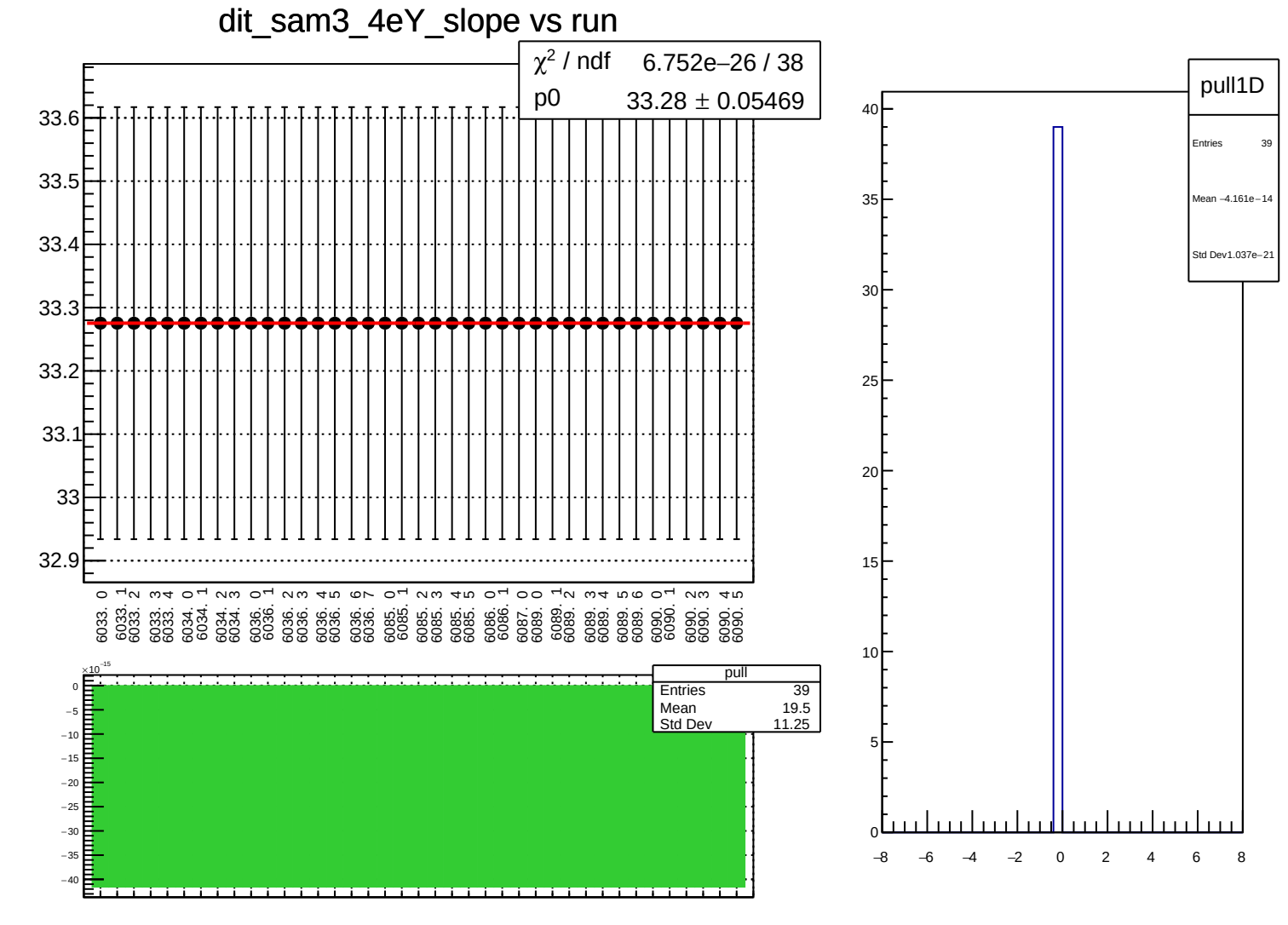

pull1D
Entries 39
Mean −2.892e−16
Std Dev1.238e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

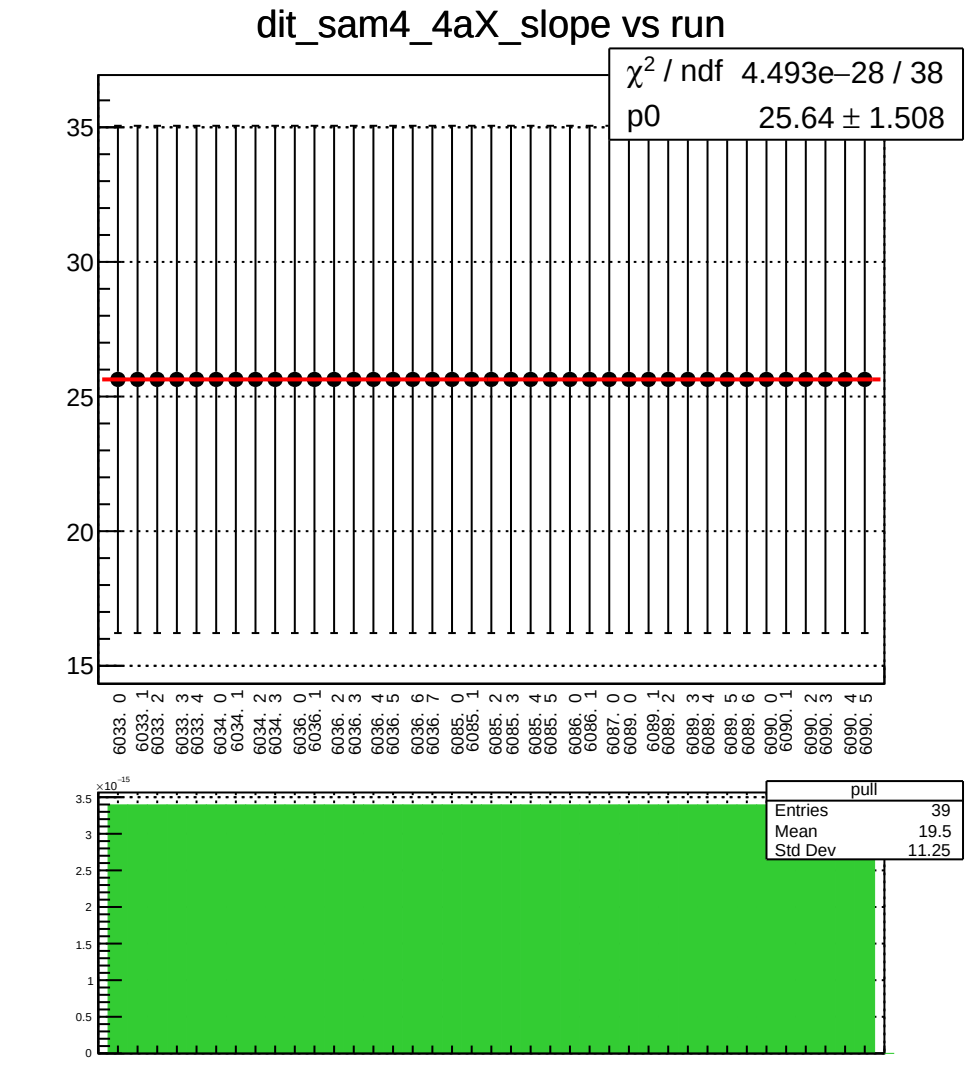

dit_sam3_4eX_slope vs run
χ² / ndf 1.879e−27 / 38
p0 −114.4 ± 0.9835
−108
−110
−112
−114
−116
−118
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 6.941e−15
Std Dev2.368e−22

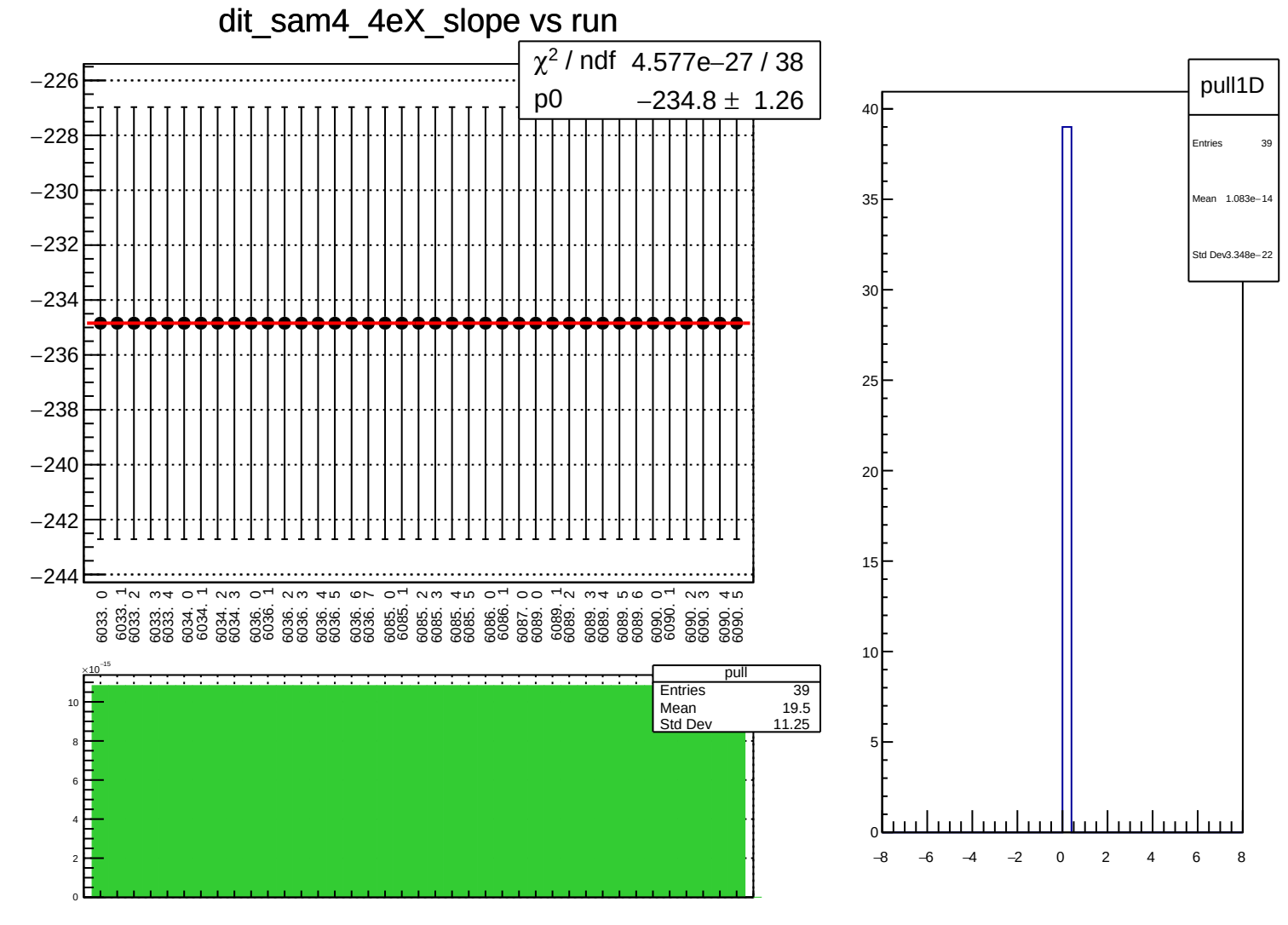

dit_sam3_11X12X_slope vs run
χ² / ndf 1.561e−29 / 38
p0 2.344 ± 0.2248
4
3.5
3
2.5
2
1.5
1
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 6.326e−16
Std Dev 2.647e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

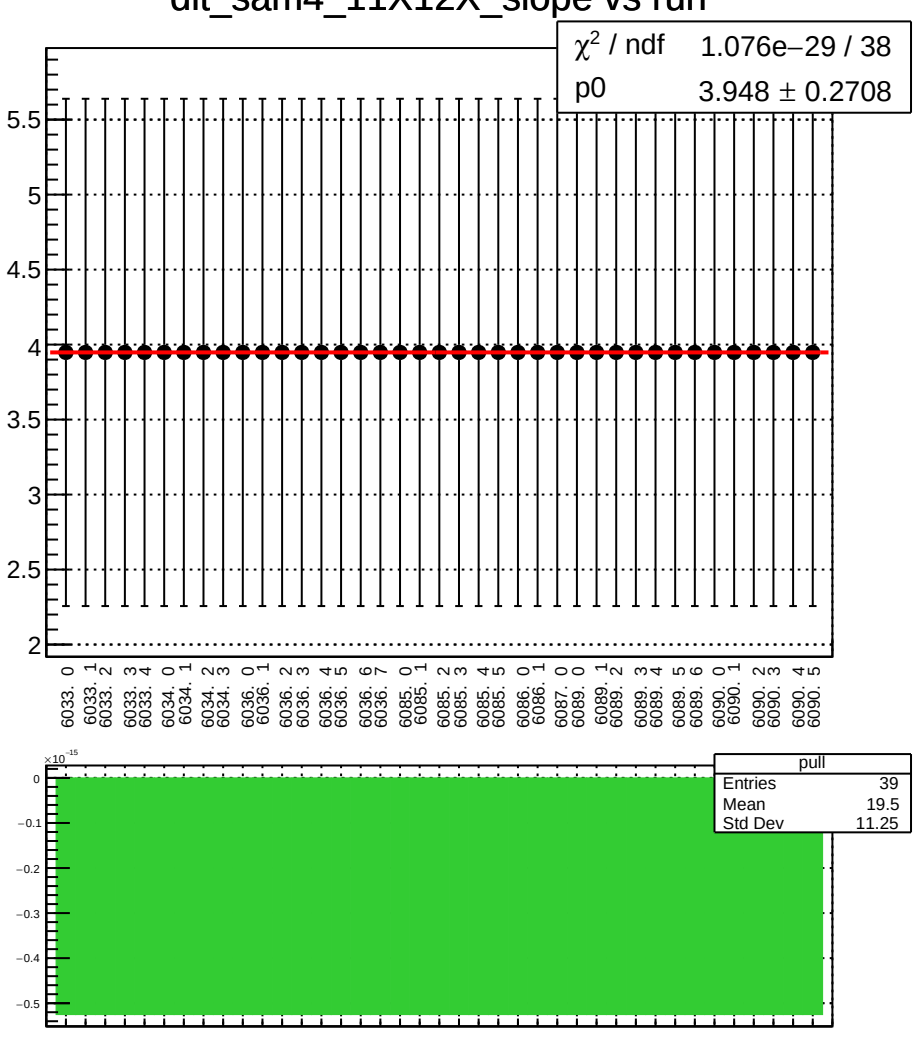

dit_sam3_4aY_slope vs run
χ² / ndf 7.2e−26 / 38
p0 −7.833 ± 0.02648
−7.65
−7.7
−7.75
−7.8
−7.85
−7.9
−7.95
−8
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 39
Mean 19.5
Std Dev 11.25

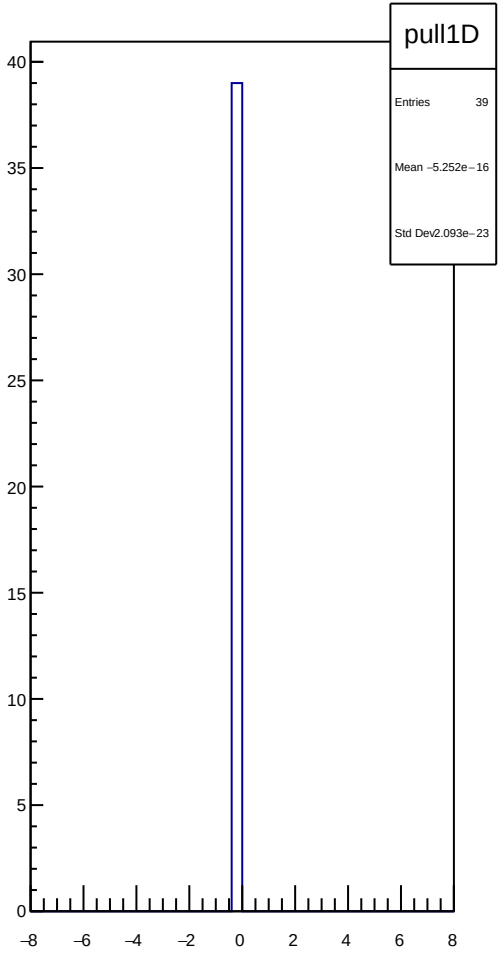

pull1D
Entries 39
Mean 4.297e−14
Std Dev 5.989e−22

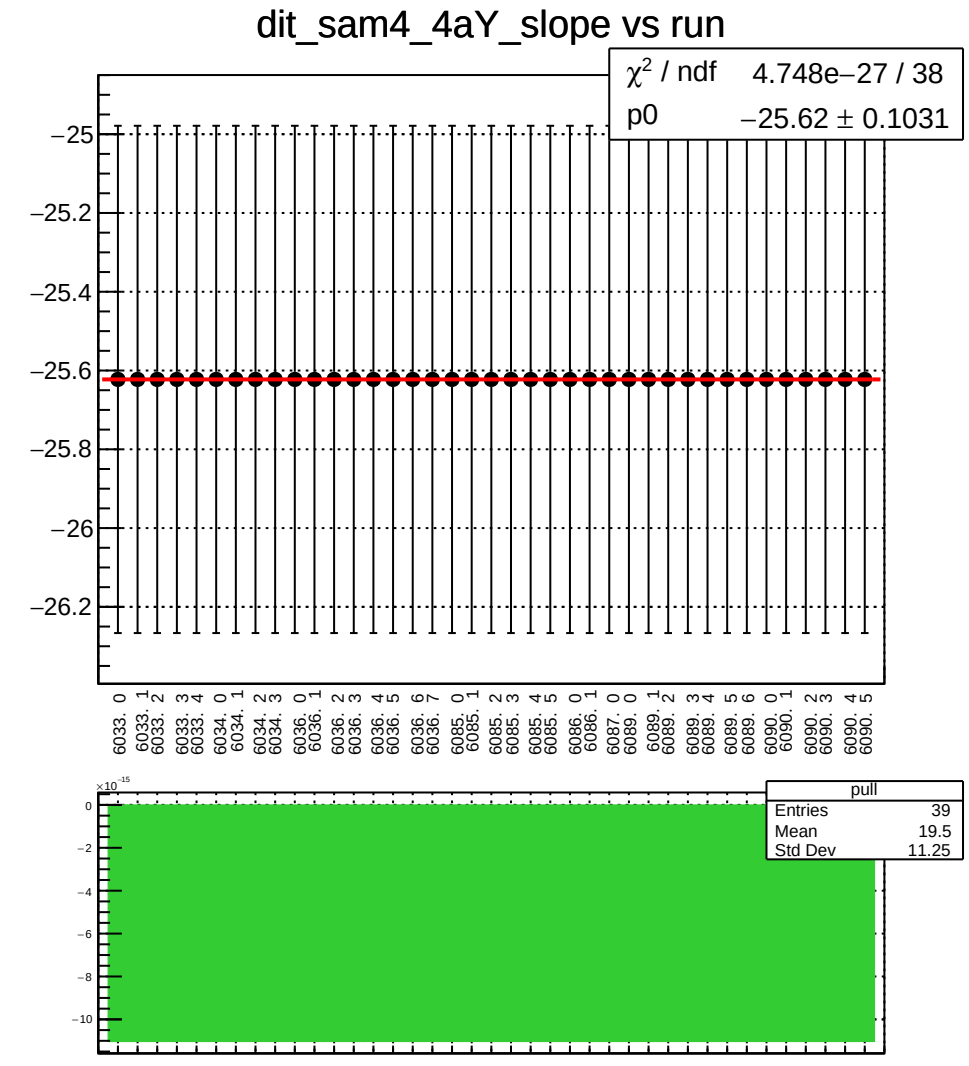

dit_sam3_4eY_slope vs run
χ² / ndf 6.752e−26 / 38
p0 33.28 ± 0.05469
33.6
33.5
33.4
33.3
33.2
33.1
33
32.9
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −4.161e−14
Std Dev1.037e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

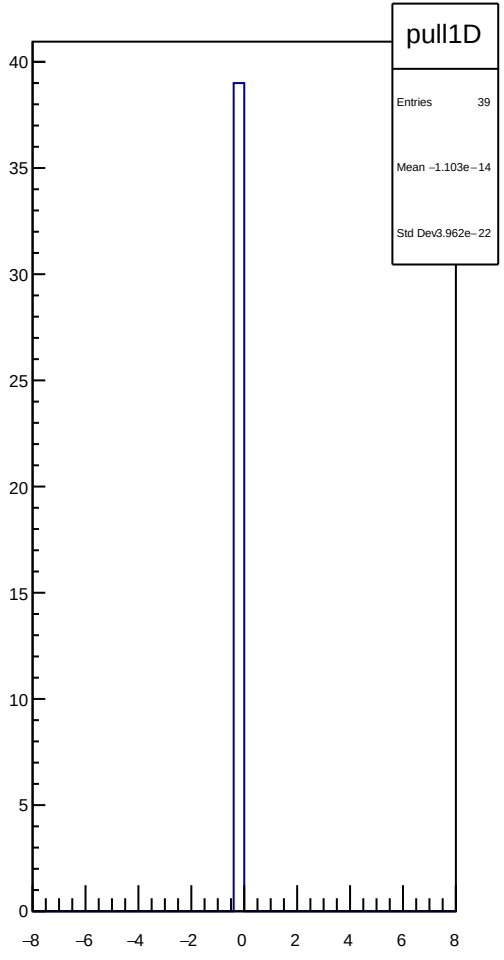

dit_sam4_4aX_slope vs run
χ² / ndf 4.493e−28 / 38
p0 25.64 ± 1.508
35
30
25
20
15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 3.394e−15
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

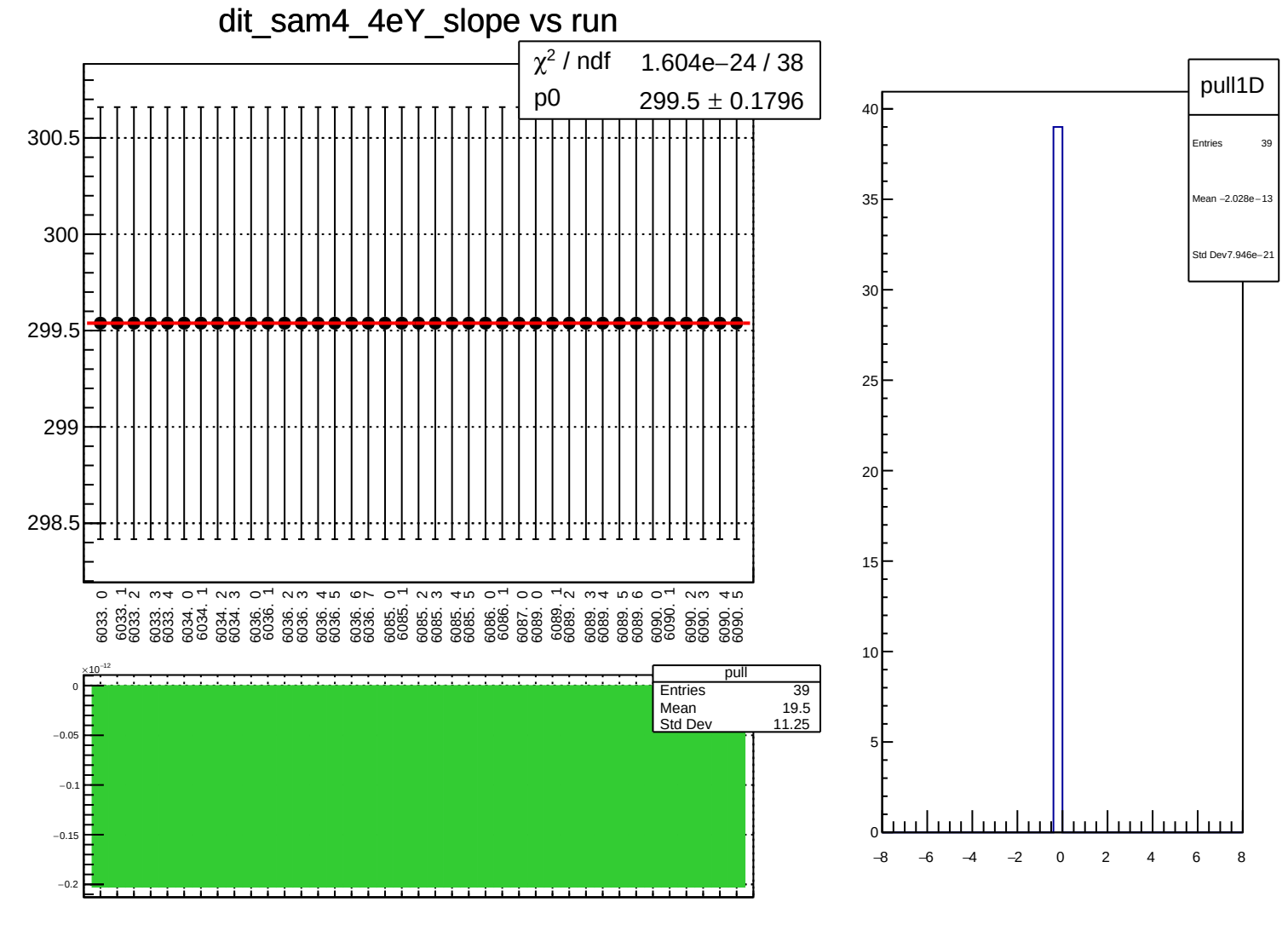

dit_sam4_4eX_slope vs run
χ² / ndf 4.577e−27 / 38
p0 −234.8 ± 1.26
−226
−228
−230
−232
−234
−236
−238
−240
−242
−244
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 1.083e−14
Std Dev3.348e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

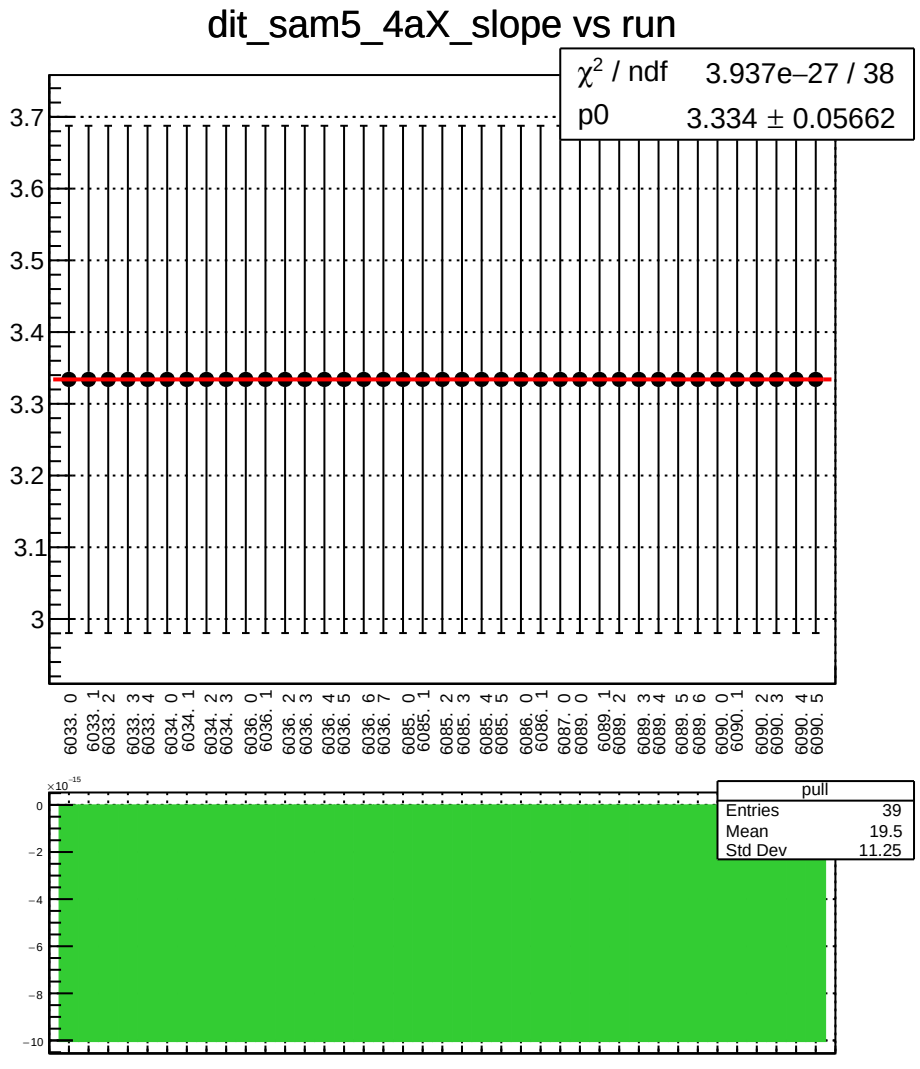

dit_sam4_11X12X_slope vs run
χ² / ndf 1.076e−29 / 38
p0 3.948 ± 0.2708
pull
Entries 39
Mean 19.5
Std Dev 11.25

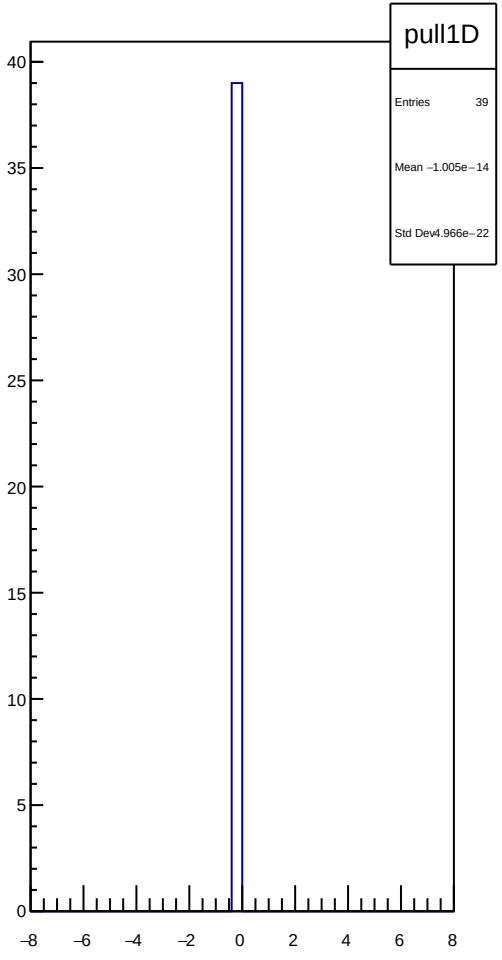

pull1D
Entries 39
Mean −5.252e−16
Std Dev2.093e−23

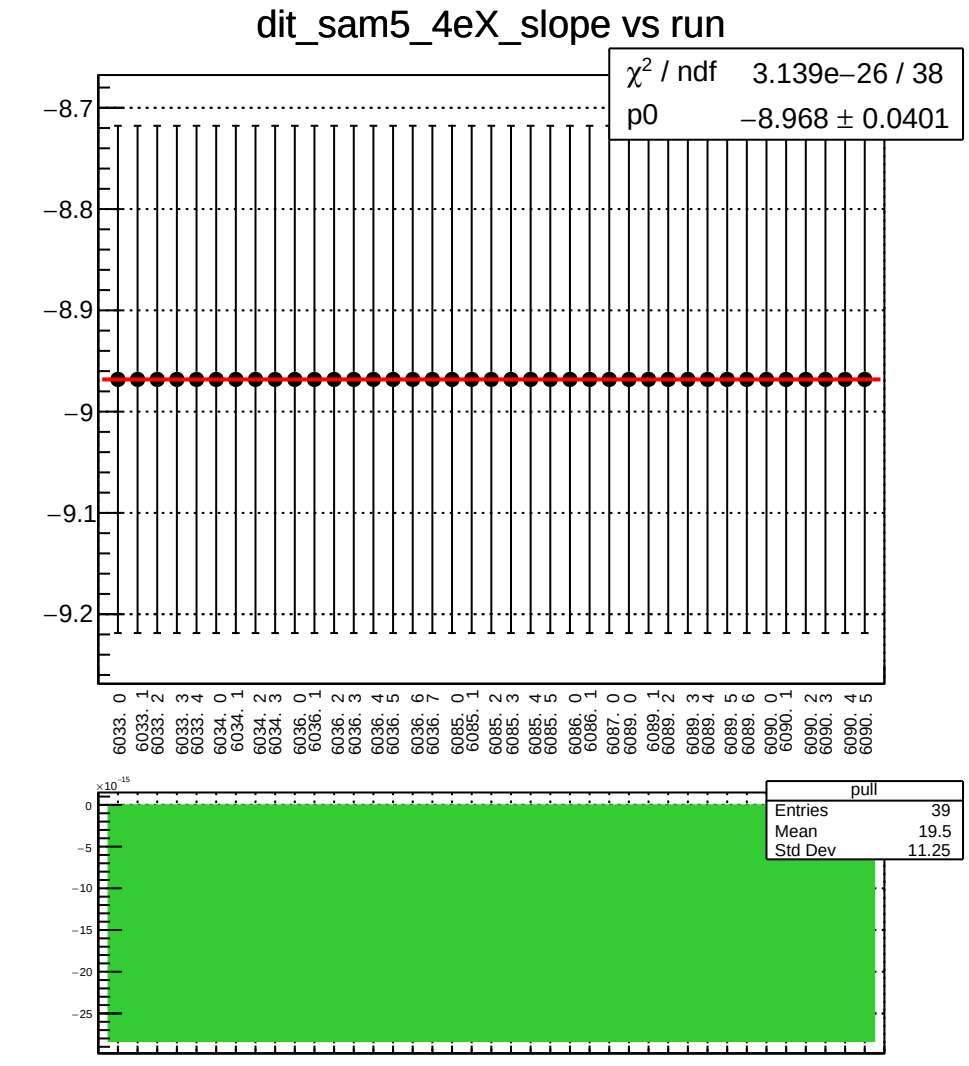

dit_sam4_4aY_slope vs run
χ² / ndf 4.748e−27 / 38
p0 −25.62 ± 0.1031
−25
−25.2
−25.4
−25.6
−25.8
−26
−26.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 39
Mean 19.5
Std Dev 11.25

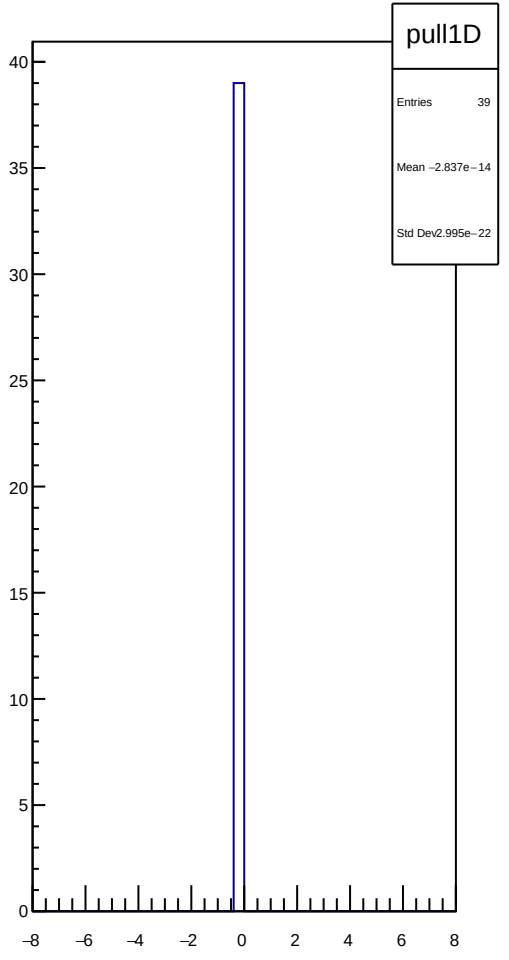

pull1D
Entries 39
Mean −1.103e−14
Std Dev 3.962e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

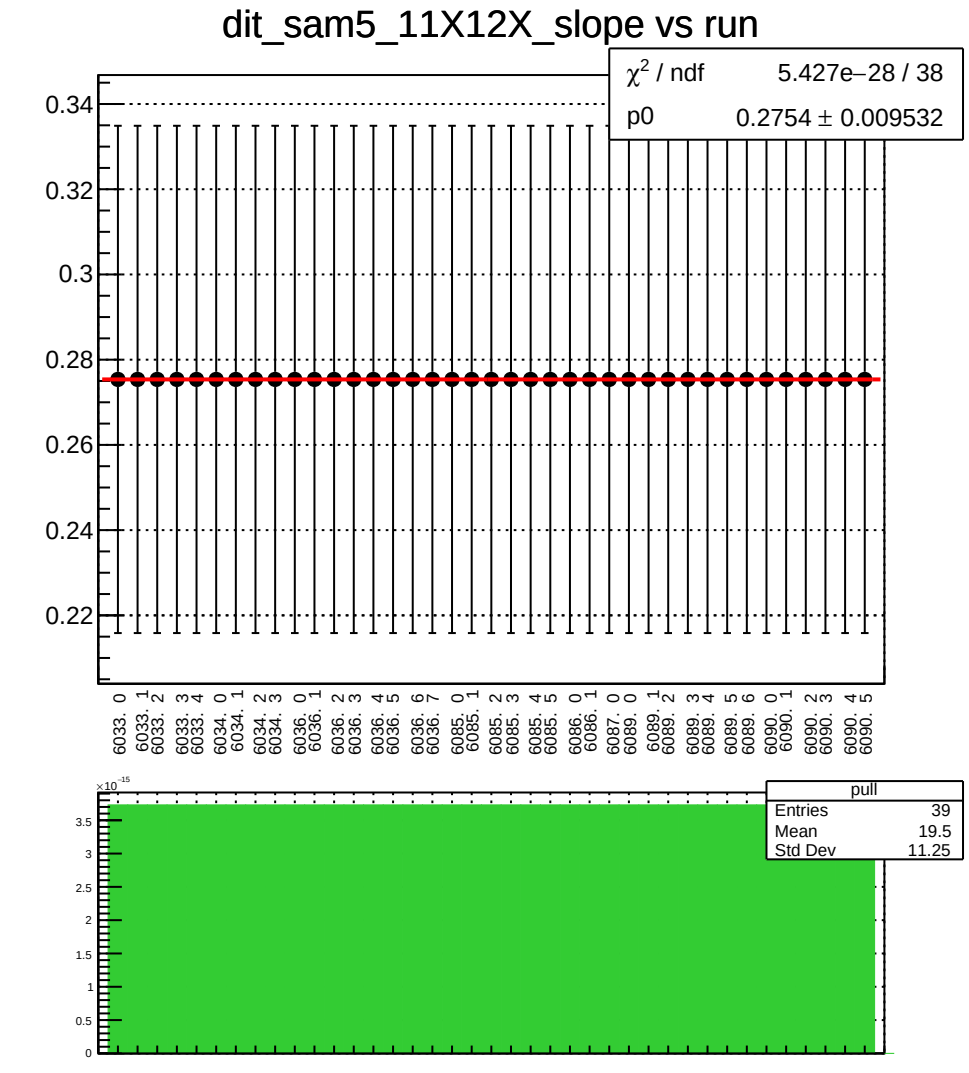

dit_sam4_4eY_slope vs run
χ² / ndf 1.604e−24 / 38
p0 299.5 ± 0.1796
300.5
300
299.5
299
298.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −2.028e−13
Std Dev7.946e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

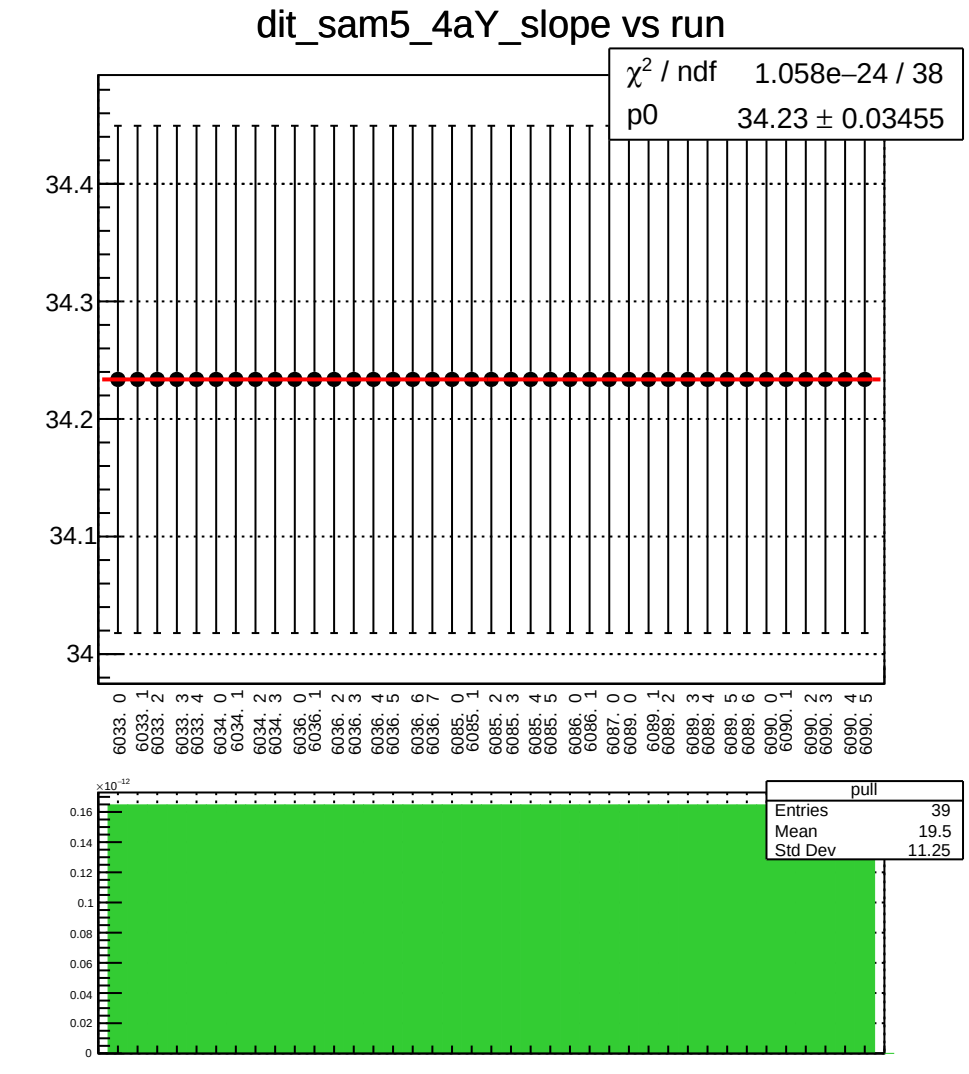

dit_sam5_4aX_slope vs run
χ² / ndf 3.937e−27 / 38
p0 3.334 ± 0.05662
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −1.005e−14
Std Dev4.966e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4eX_slope vs run
χ² / ndf 3.139e−26 / 38
p0 −8.968 ± 0.0401
−8.7
−8.8
−8.9
−9
−9.1
−9.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −2.837e−14
Std Dev 2.995e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_11X12X_slope vs run
χ² / ndf 5.427e−28 / 38
p0 0.2754 ± 0.009532
0.34
0.32
0.3
0.28
0.26
0.24
0.22
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 3.73e−15
Std Dev1.909e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4aY_slope vs run
χ² / ndf 1.058e−24 / 38
p0 34.23 ± 0.03455
34.4
34.3
34.2
34.1
34
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 1.647e−13
Std Dev5.868e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
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2
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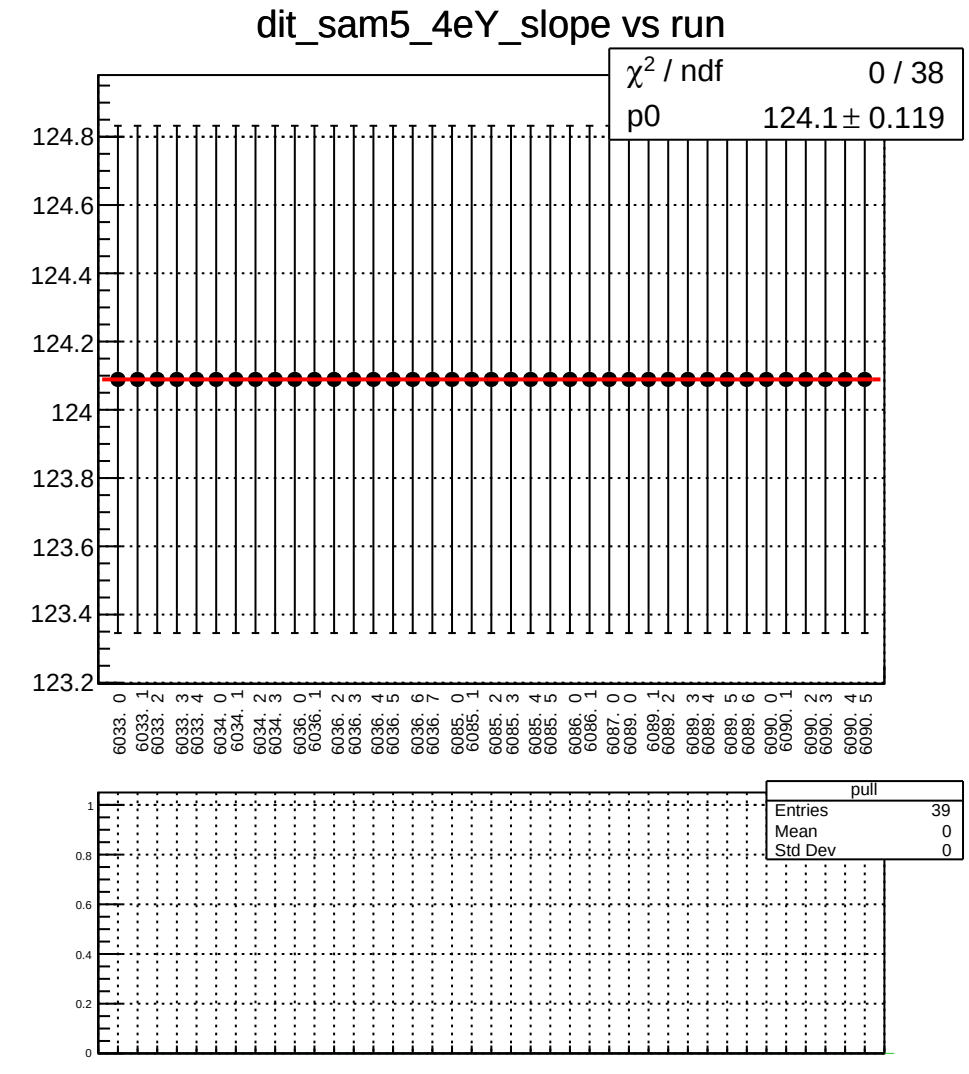
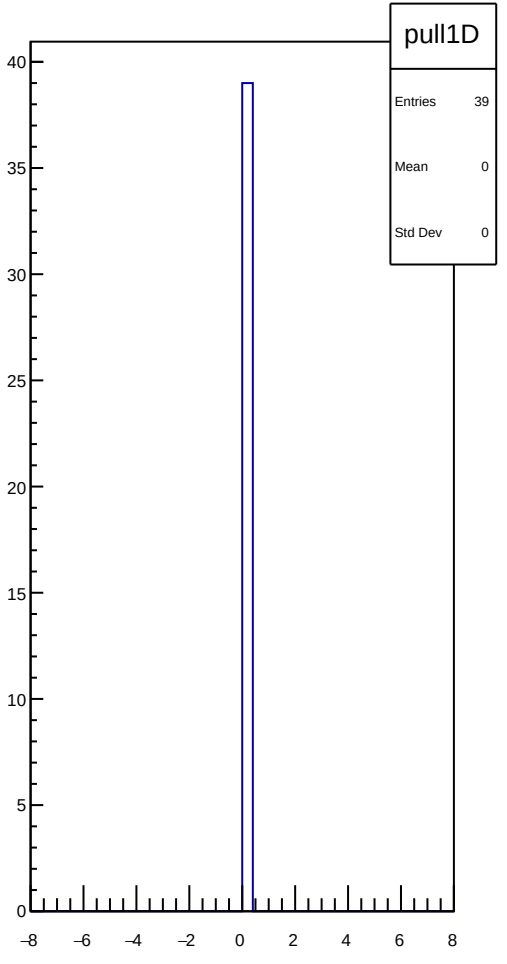
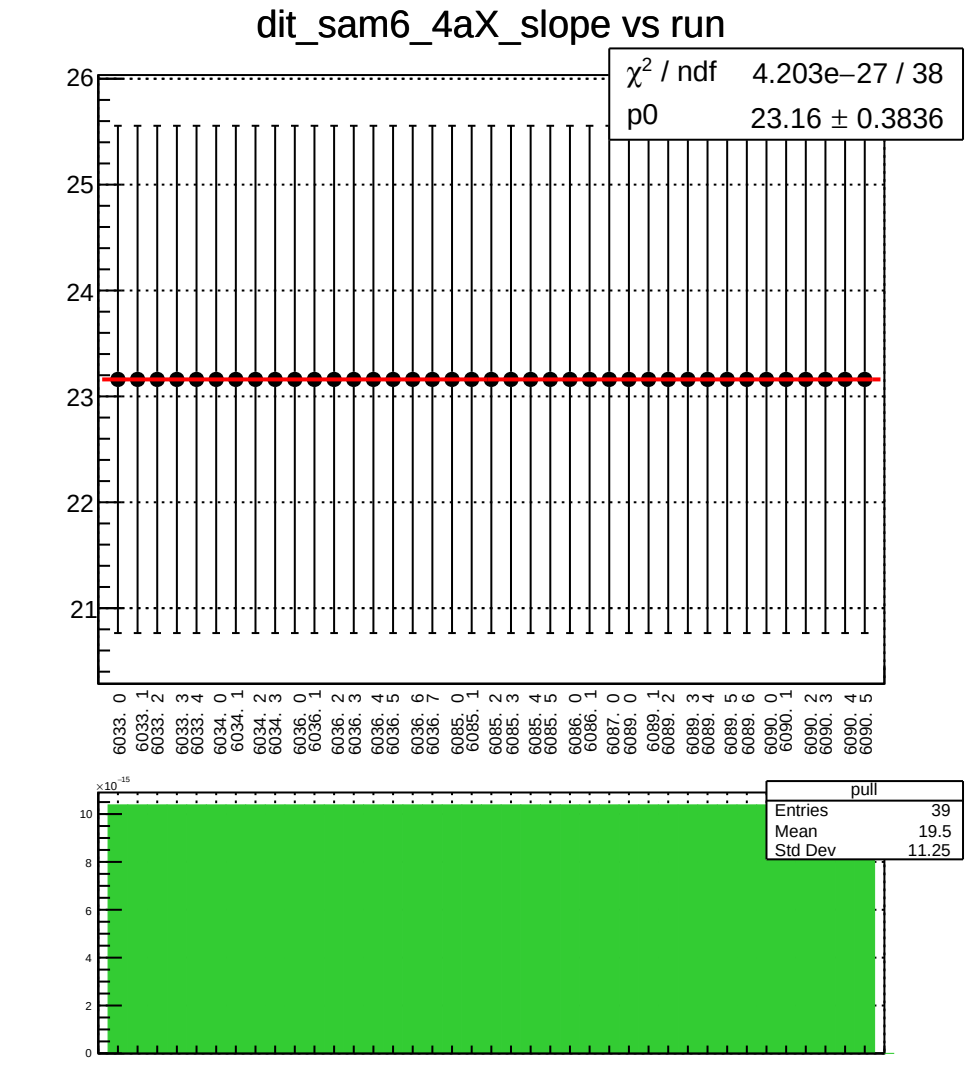
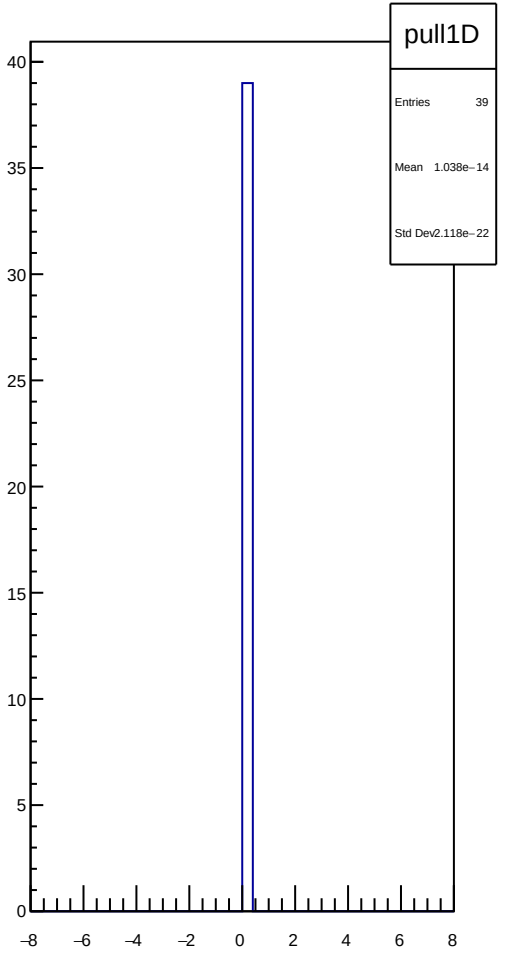
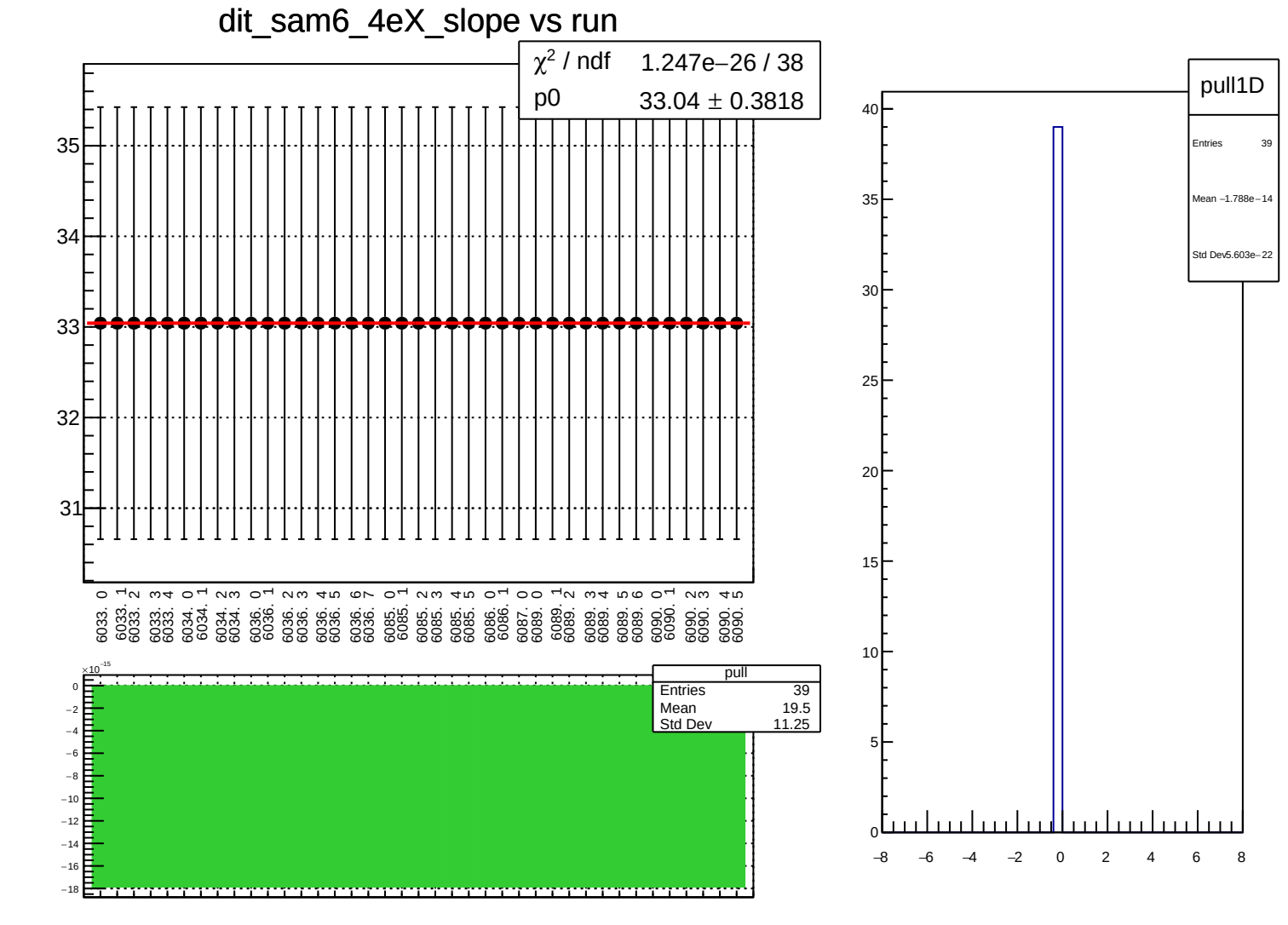
6
8

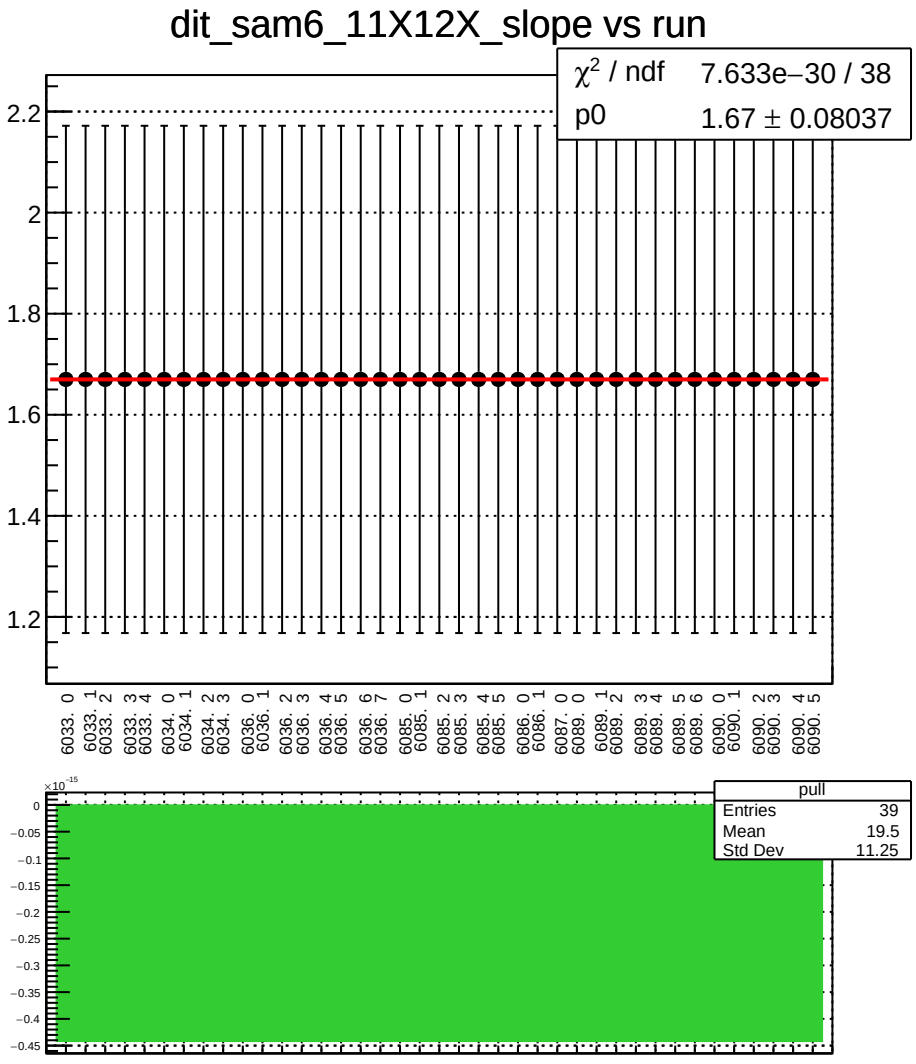

dit_sam5_4eY_slope vs run
χ^2 / ndf 0 / 38
p0 124.1 ± 0.119
124.8
124.6
124.4
124.2
124
123.8
123.6
123.4
123.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

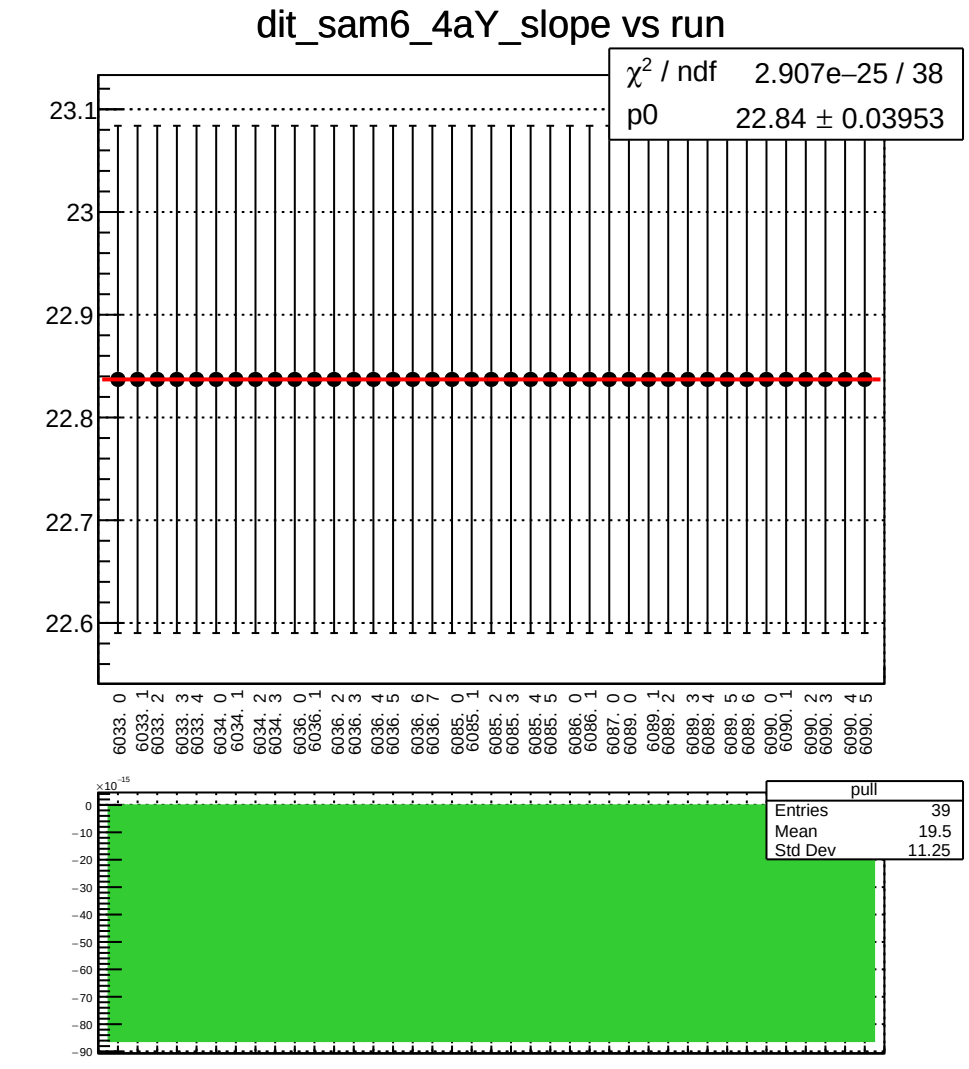

pull1D
Entries 39
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

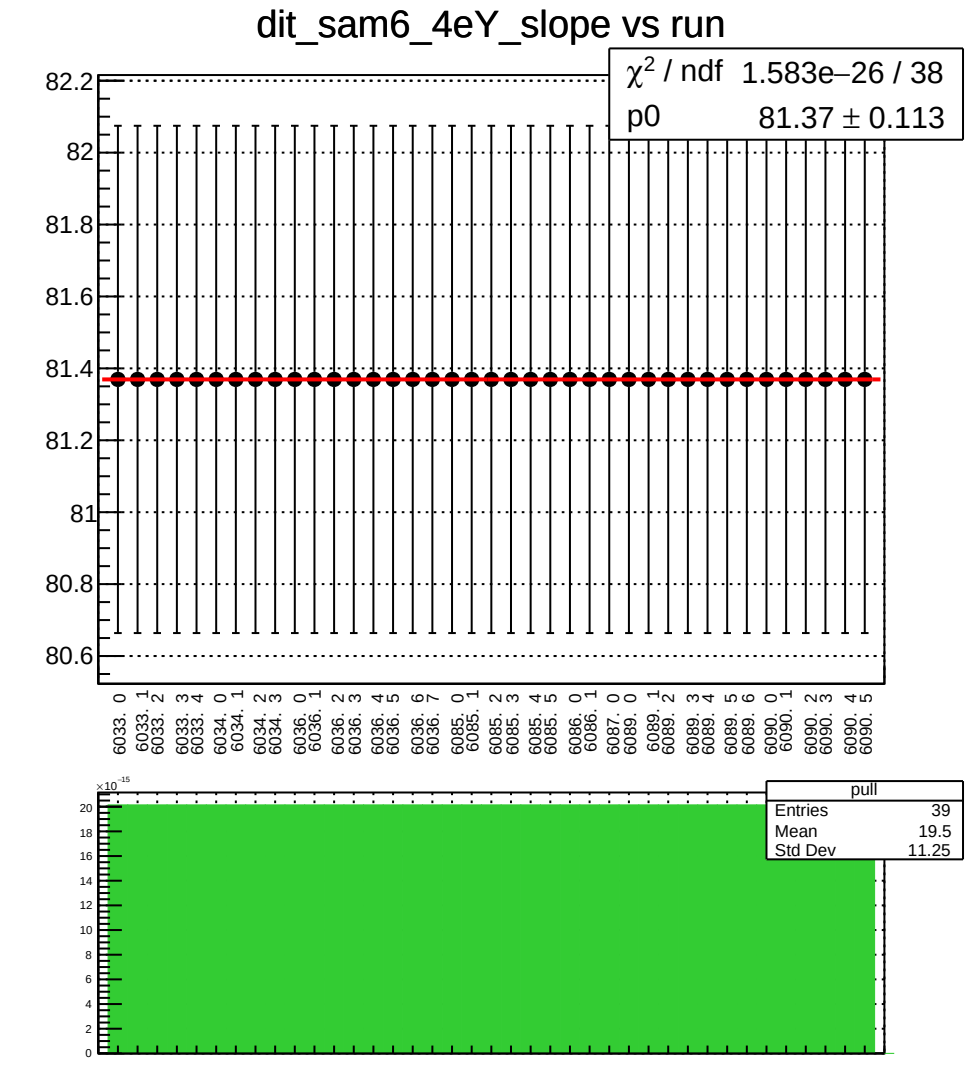

dit_sam6_4aX_slope vs run
χ² / ndf 4.203e−27 / 38
p0 23.16 ± 0.3836
pull
Entries 39
Mean 19.5
Std Dev 11.25

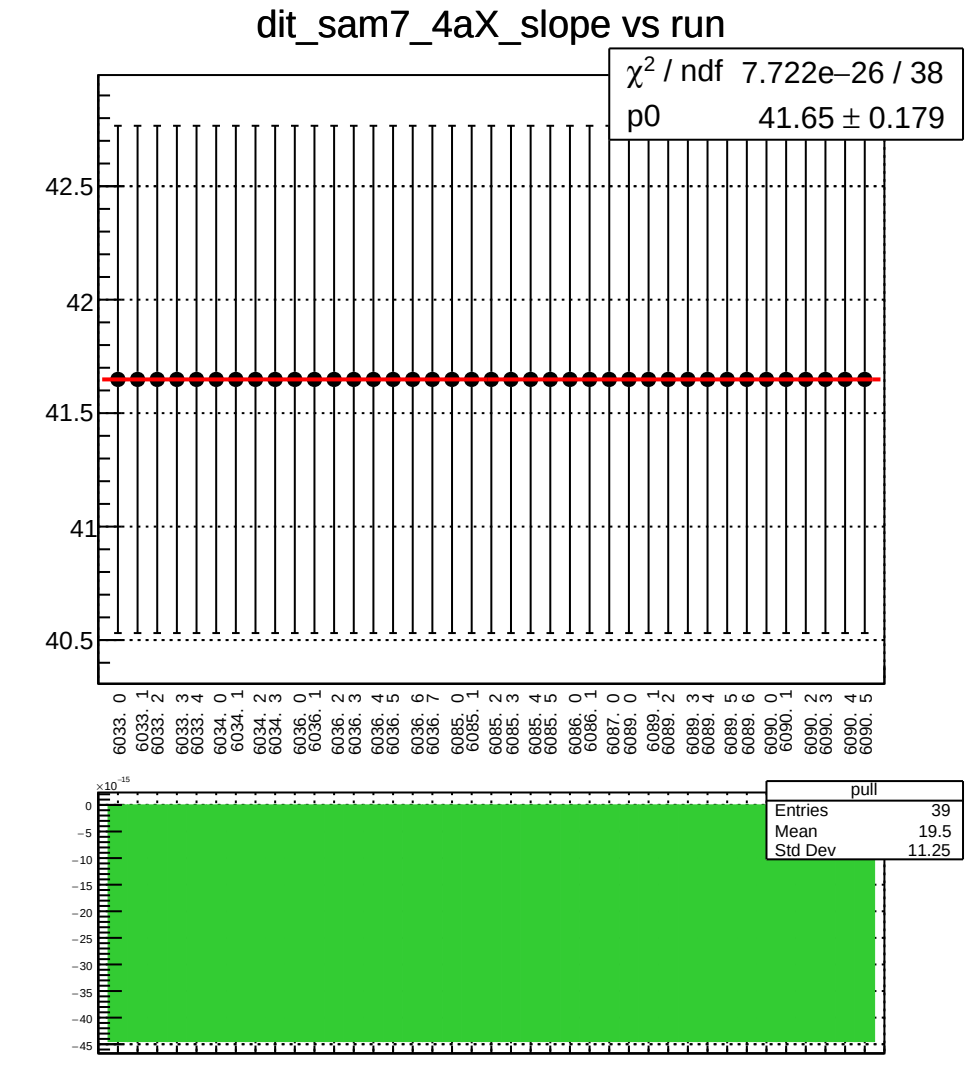

pull1D
Entries 39
Mean 1.038e−14
Std Dev 2.118e−22

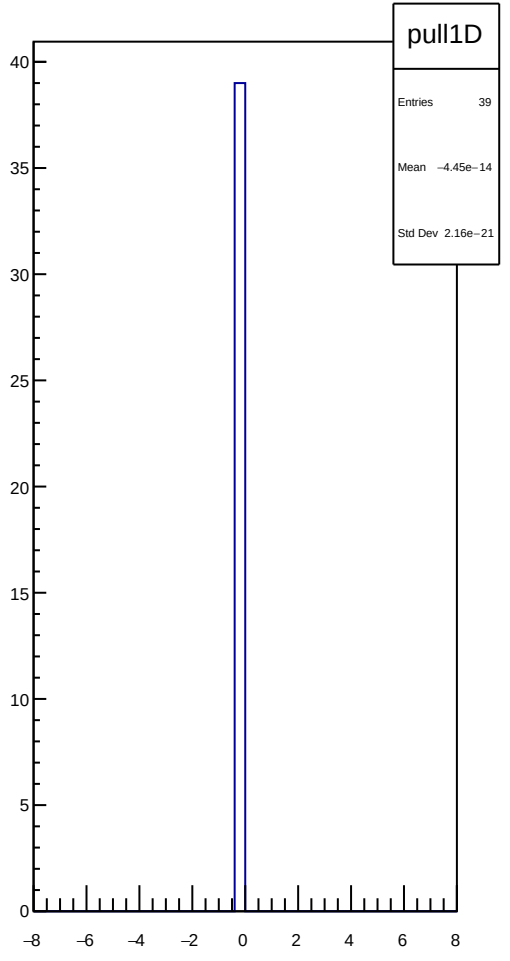

dit_sam6_4eX_slope vs run
χ² / ndf 1.247e−26 / 38
p0 33.04 ± 0.3818
35
34
33
32
31
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −1.788e−14
Std Dev5.603e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

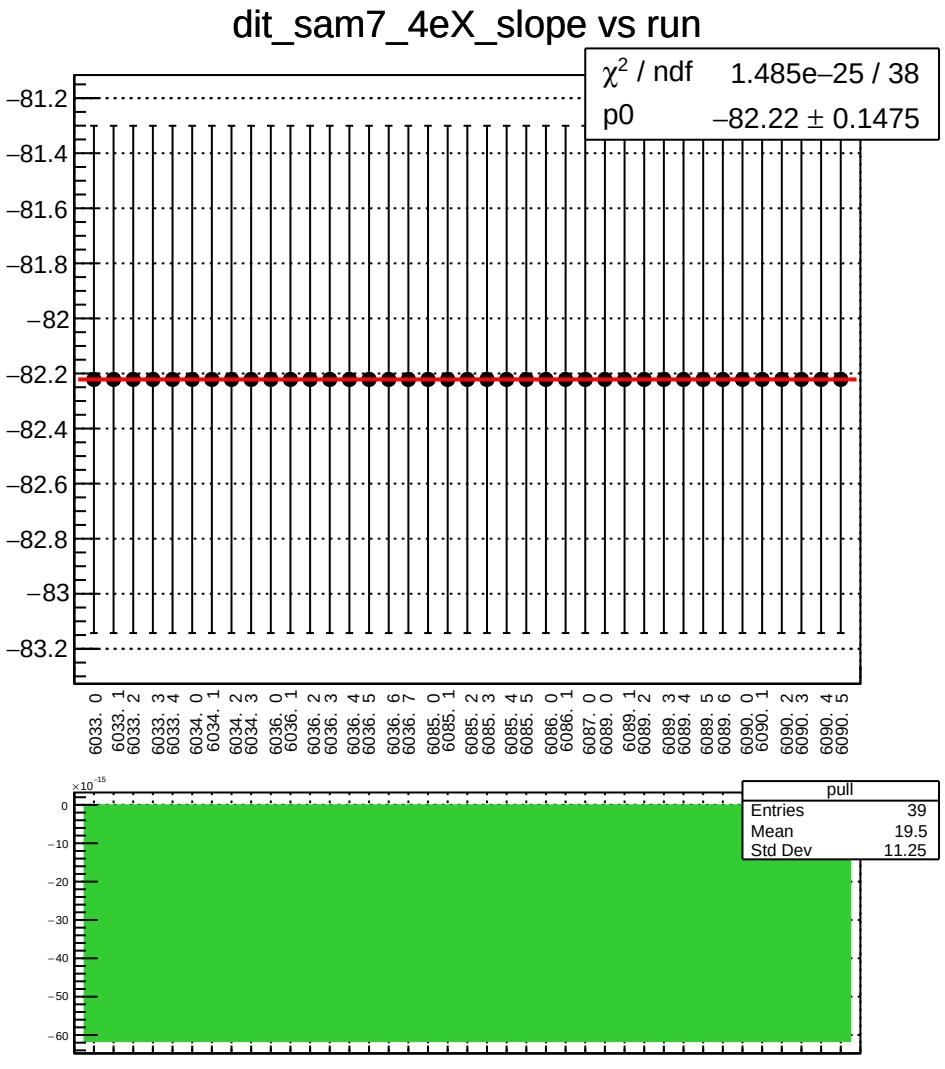

dit_sam6_11X12X_slope vs run
χ² / ndf 7.633e−30 / 38
p0 1.67 ± 0.08037
2.2
2
1.8
1.6
1.4
1.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −4.424e−16
Std Dev1.872e−23
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

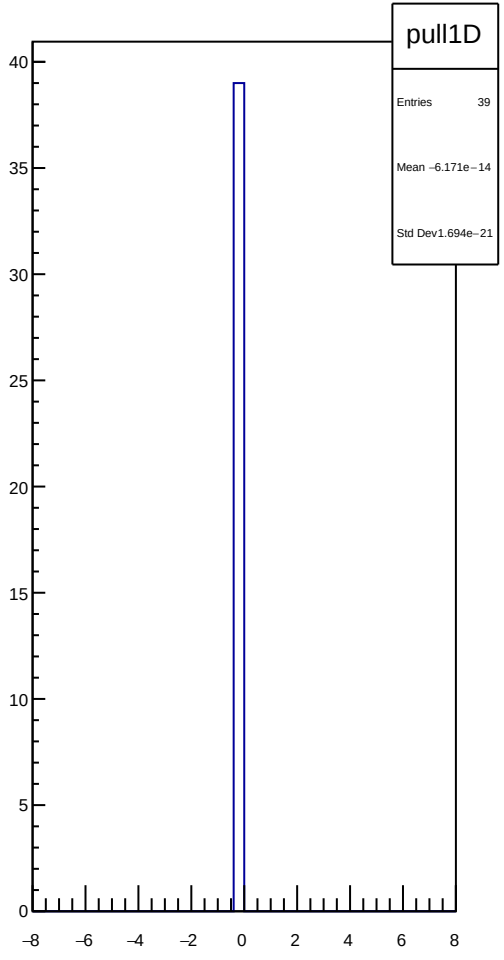

dit_sam6_4aY_slope vs run
χ² / ndf 2.907e−25 / 38
p0 22.84 ± 0.03953
23.1
23
22.9
22.8
22.7
22.6
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −8.634e−14
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 1.583e−26 / 38
p0 81.37 ± 0.113
82.2
82
81.8
81.6
81.4
81.2
81
80.8
80.6
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 2.015e−14
Std Dev 9.932e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4aX_slope vs run
χ² / ndf 7.722e−26 / 38
p0 41.65 ± 0.179
42.5
42
41.5
41
40.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
−45
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −4.45e−14
Std Dev 2.16e−21
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 1.485e−25 / 38
p0 −82.22 ± 0.1475
−81.2
−81.4
−81.6
−81.8
−82
−82.2
−82.4
−82.6
−82.8
−83
−83.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull
Entries 39
Mean 19.5
Std Dev 11.25


pull1D
Entries 39
Mean −6.171e−14
Std Dev1.694e−21
40
35
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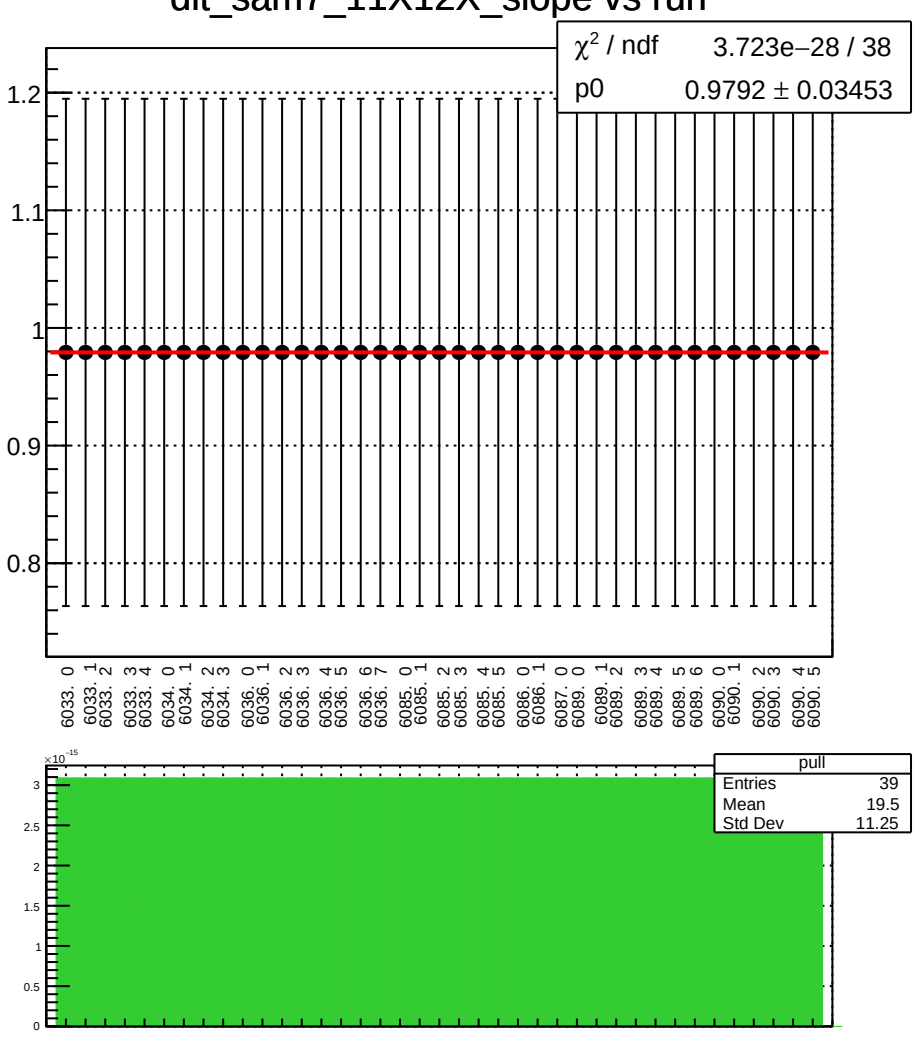
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_11X12X_slope vs run
χ² / ndf 3.723e−28 / 38
p0 0.9792 ± 0.03453
1.2
1.1
1
0.9
0.8
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
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6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 3.09e−15
Std Dev1.497e−22
40
35
30
25
20
15
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5
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−4
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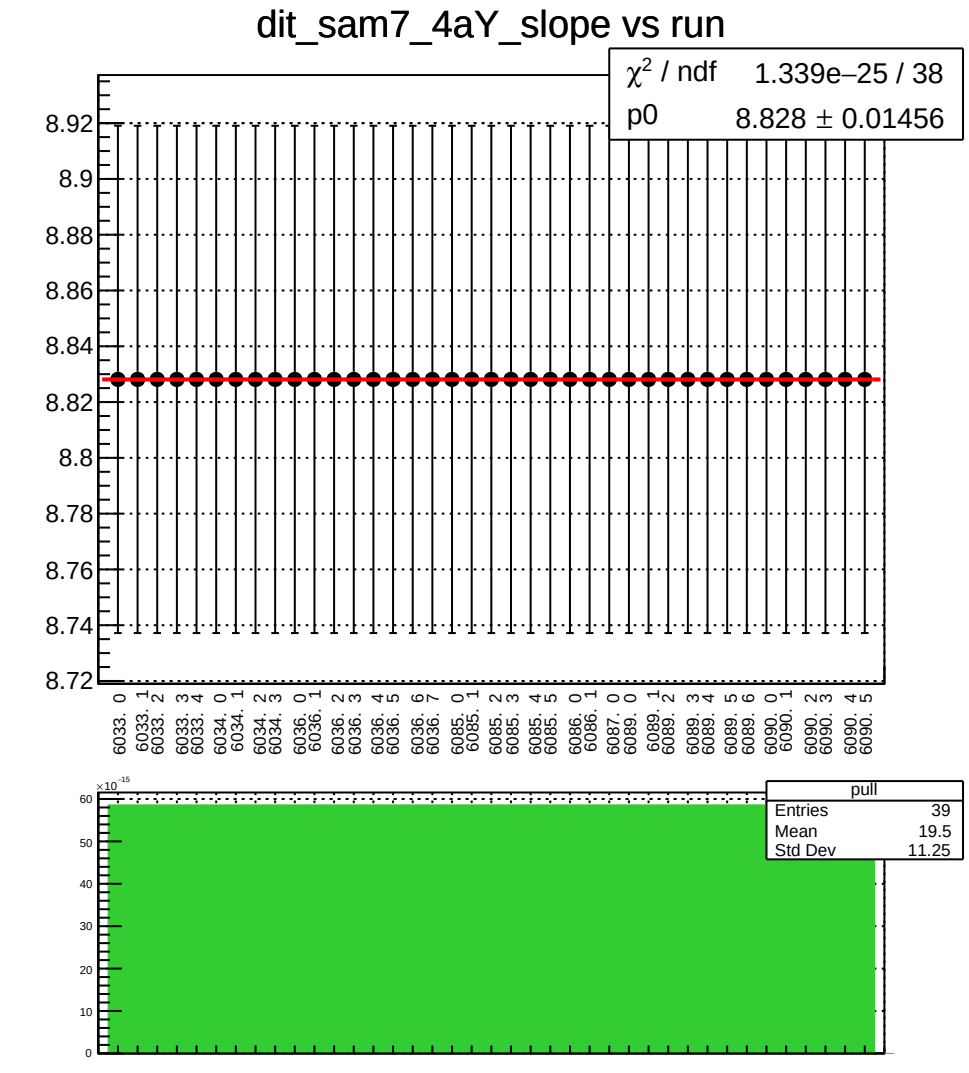
2
4
6
8


dit_sam7_4aY_slope vs run
χ² / ndf 1.339e−25 / 38
p0 8.828 ± 0.01456
8.92
8.9
8.88
8.86
8.84
8.82
8.8
8.78
8.76
8.74
8.72
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
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6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
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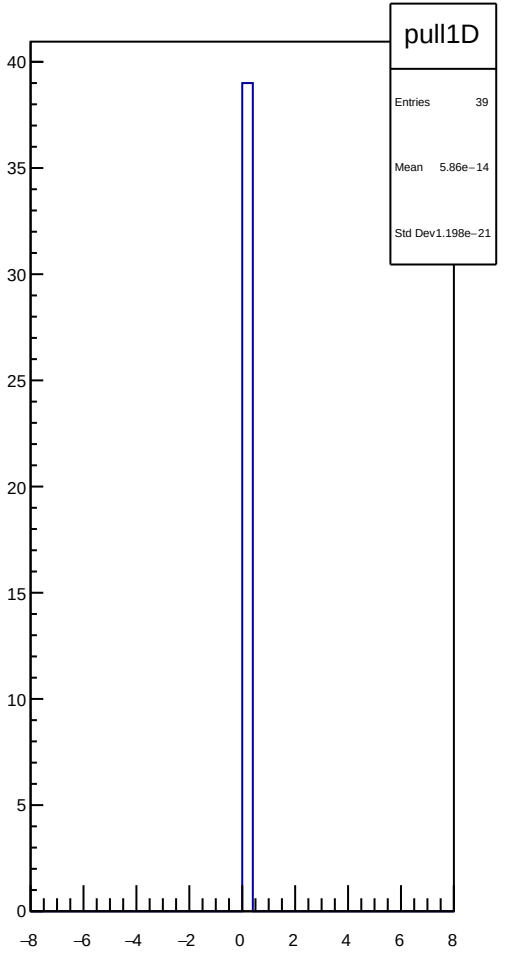
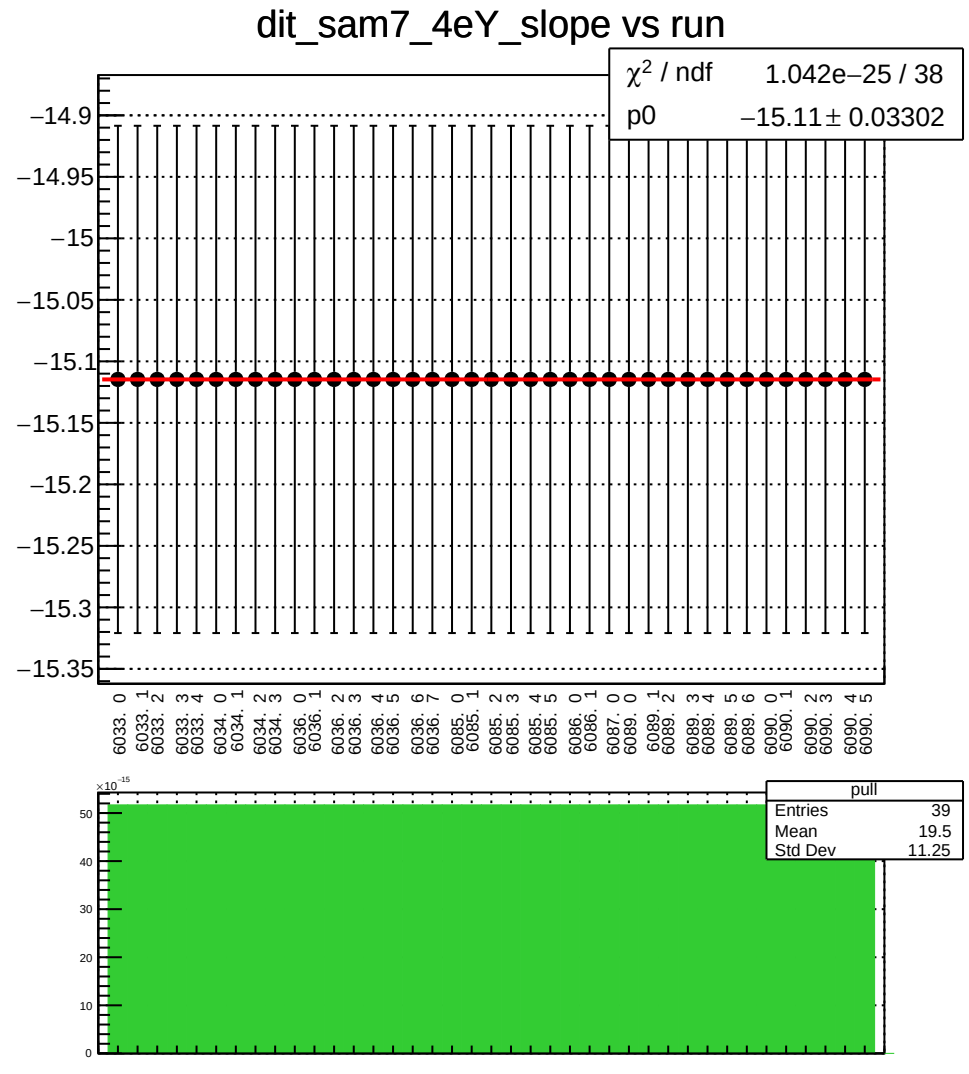
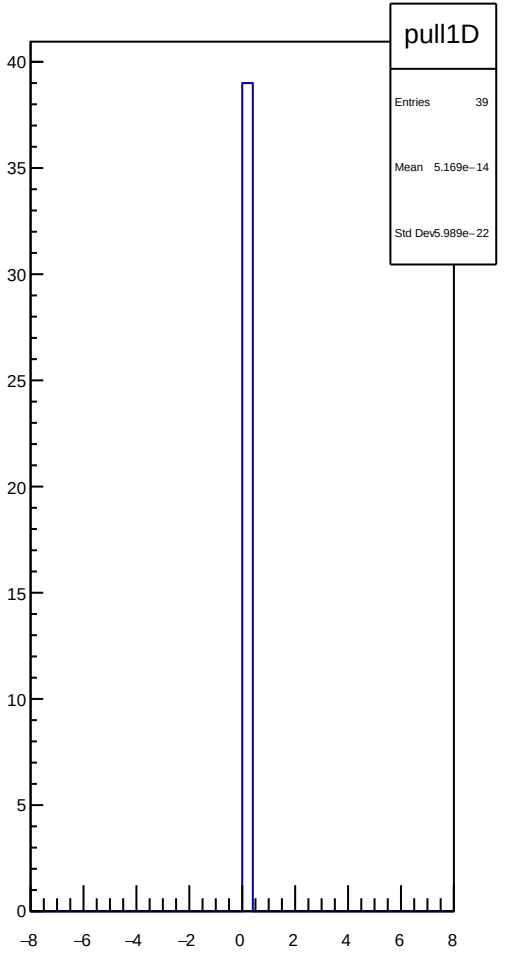
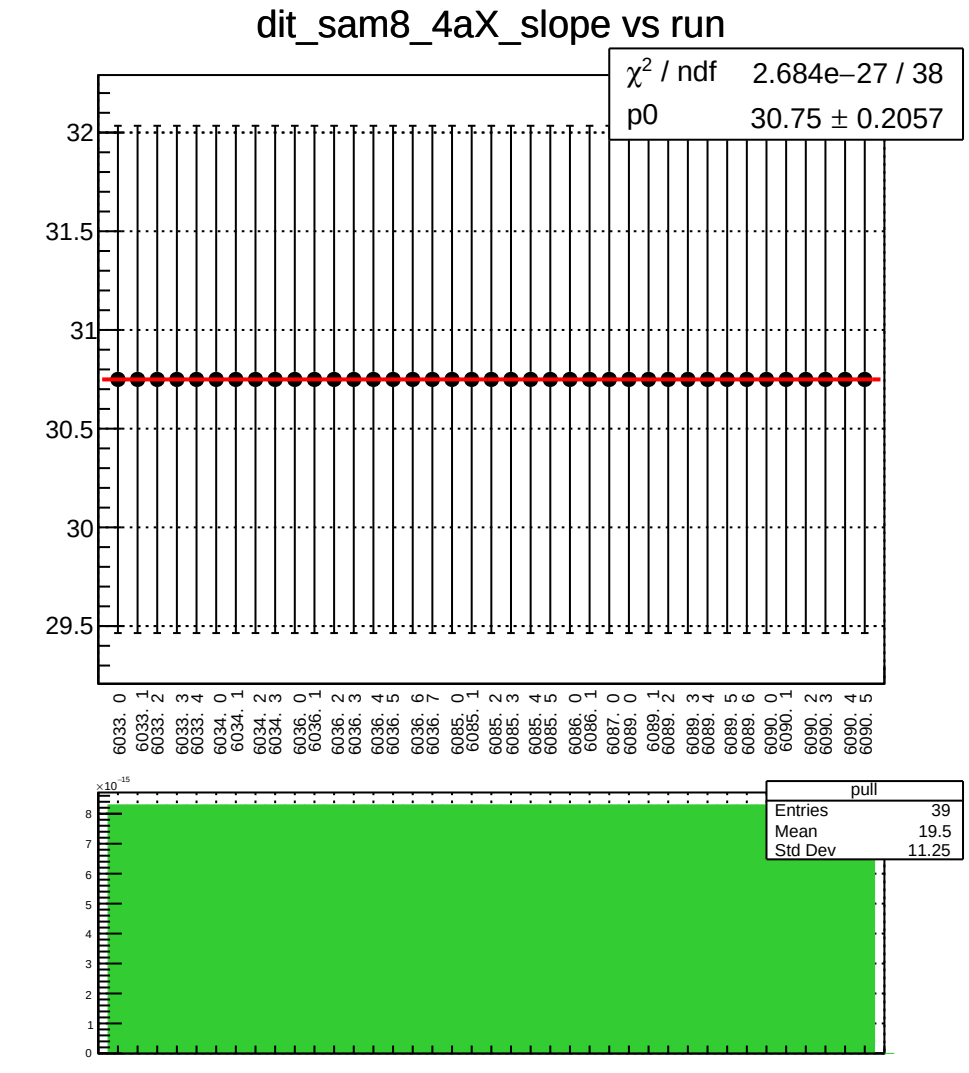
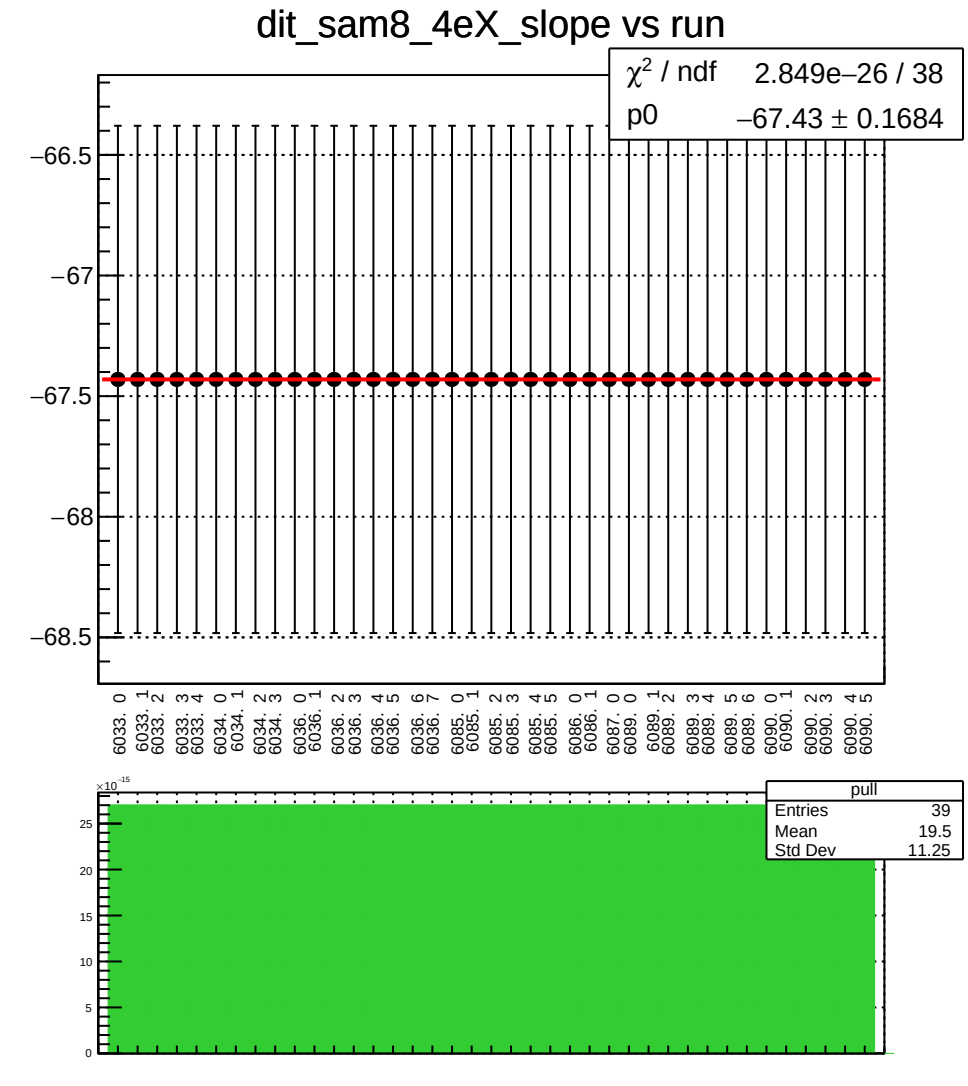
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
60
50
40
30
20
10
0
pull
Entries 39
Mean 19.5
Std Dev 11.25

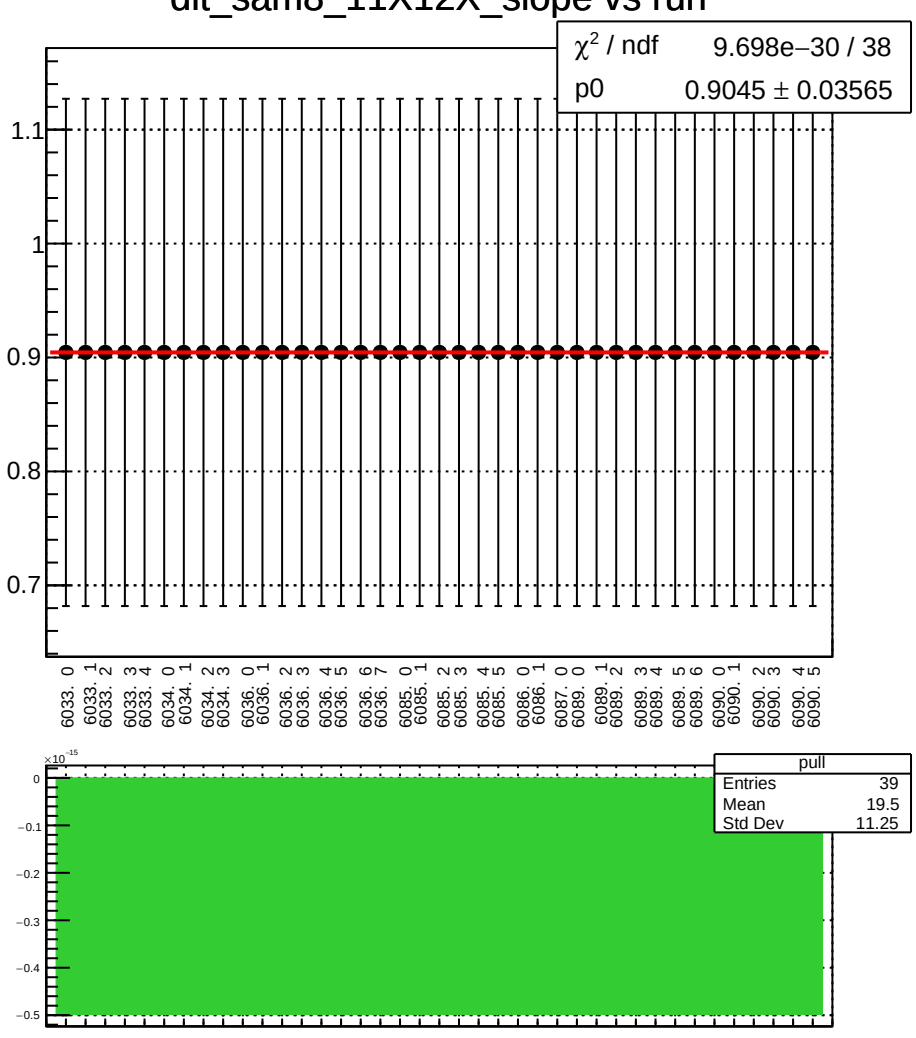

pull1D
Entries 39
Mean 5.86e−14
Std Dev1.198e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

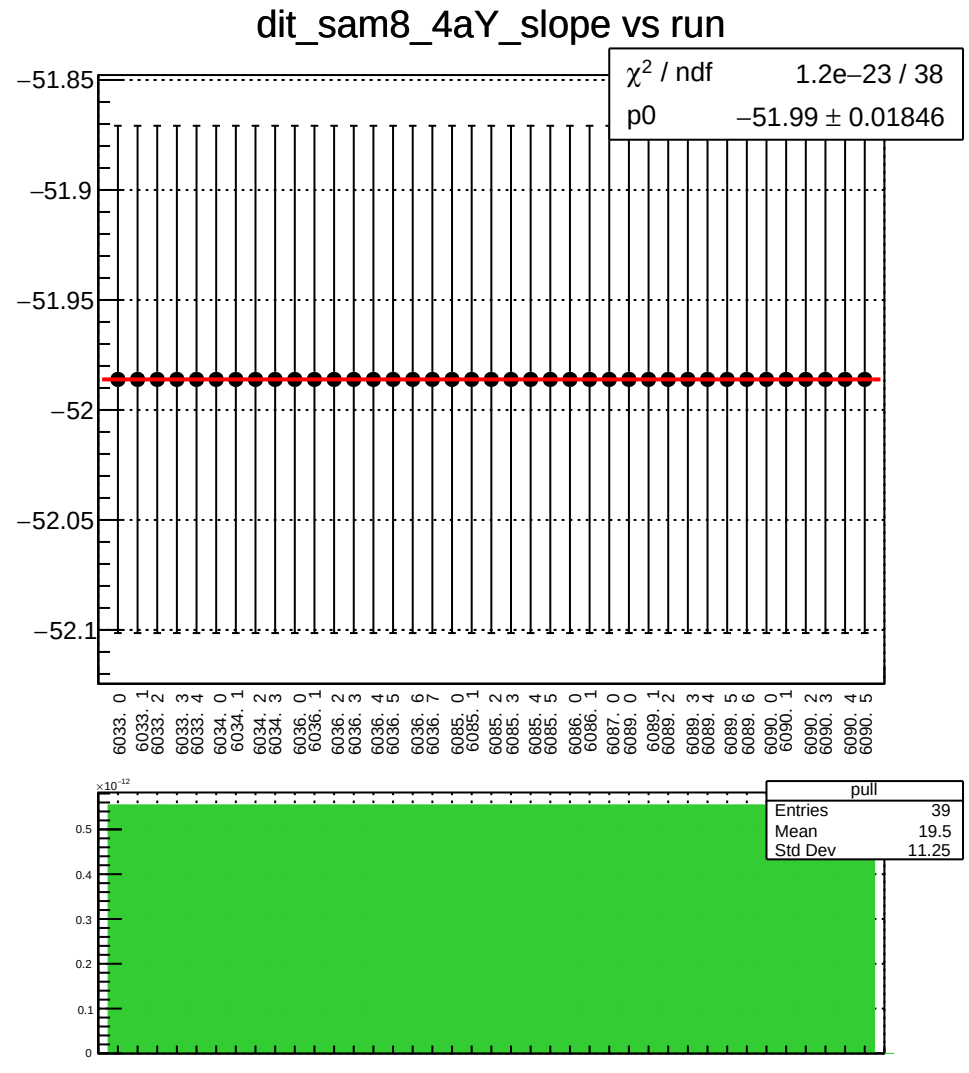

dit_sam7_4eY_slope vs run
χ² / ndf 1.042e−25 / 38
p0 −15.11 ± 0.03302
−14.9
−14.95
−15
−15.05
−15.1
−15.15
−15.2
−15.25
−15.3
−15.35
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 39
Mean 19.5
Std Dev 11.25

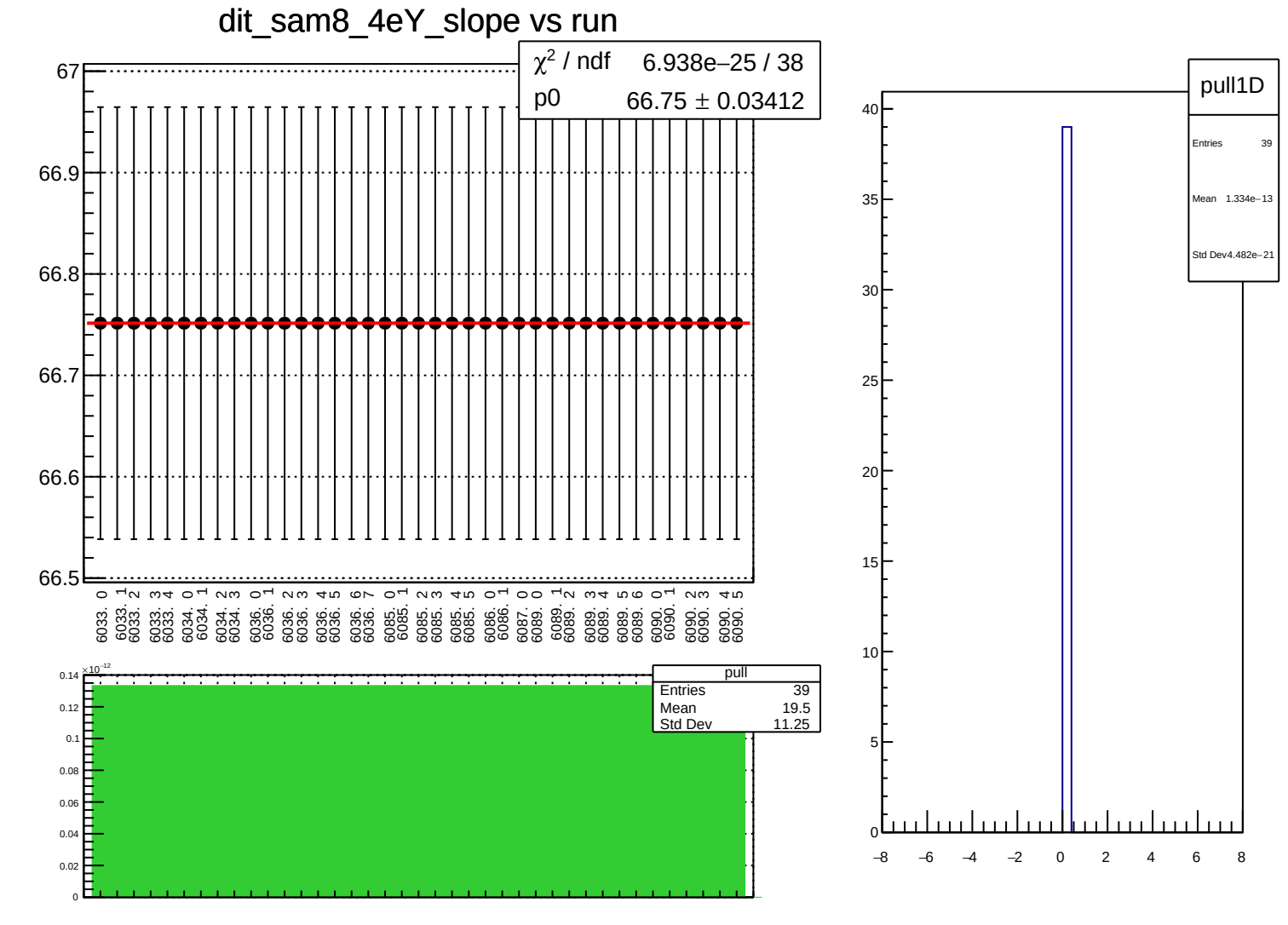

pull1D
Entries 39
Mean 5.169e−14
Std Dev 5.989e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

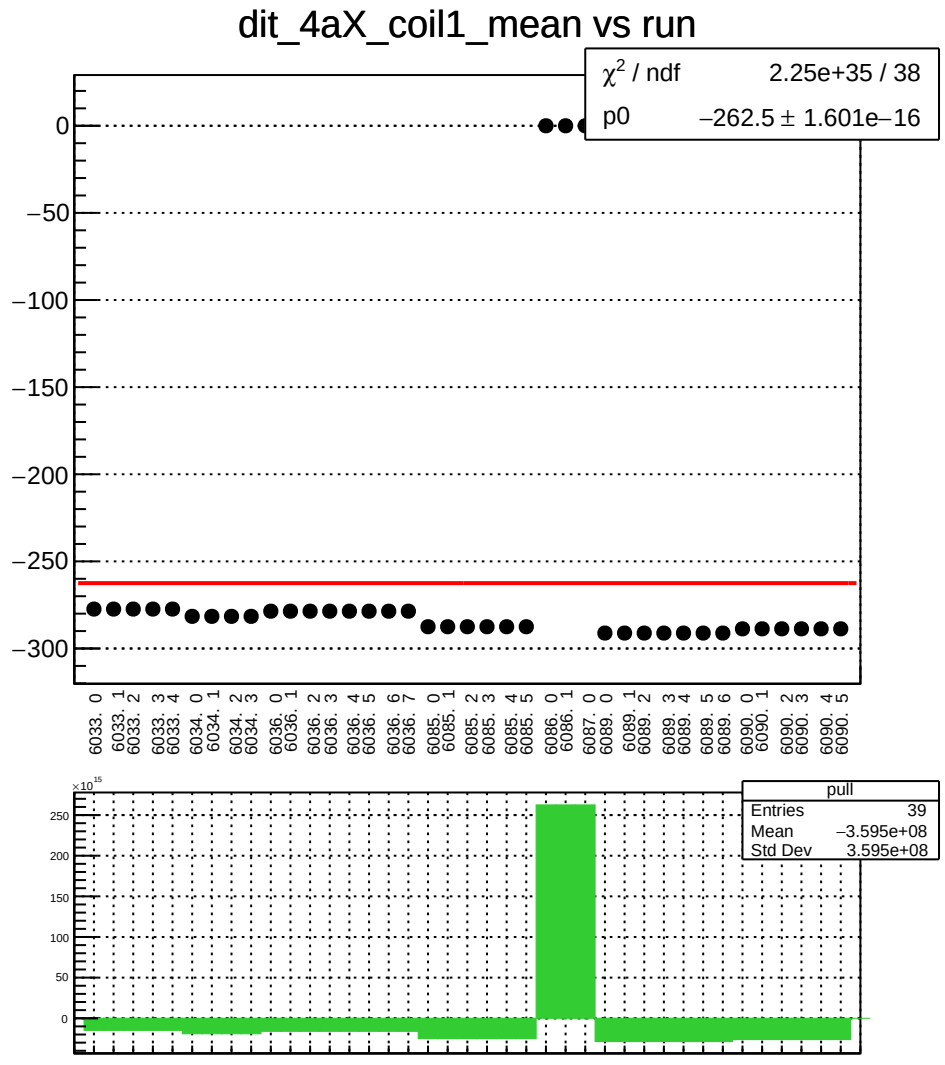

dit_sam8_4aX_slope vs run
χ² / ndf 2.684e−27 / 38
p0 30.75 ± 0.2057
32
31.5
31
30.5
30
29.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
8
7
6
5
4
3
2
1
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 8.295e−15
Std Dev3.176e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

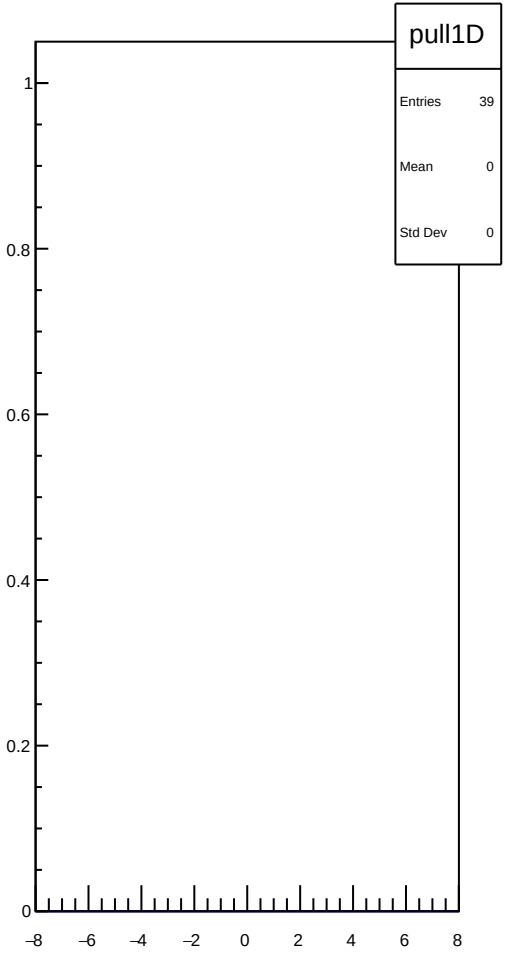

dit_sam8_4eX_slope vs run
χ² / ndf 2.849e−26 / 38
p0 −67.43 ± 0.1684
−66.5
−67
−67.5
−68
−68.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
pull
Entries 39
Mean 19.5
Std Dev 11.25
25
20
15
10
5
0
pull1D
Entries 39
Mean 2.703e−14
Std Dev7.336e−22
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

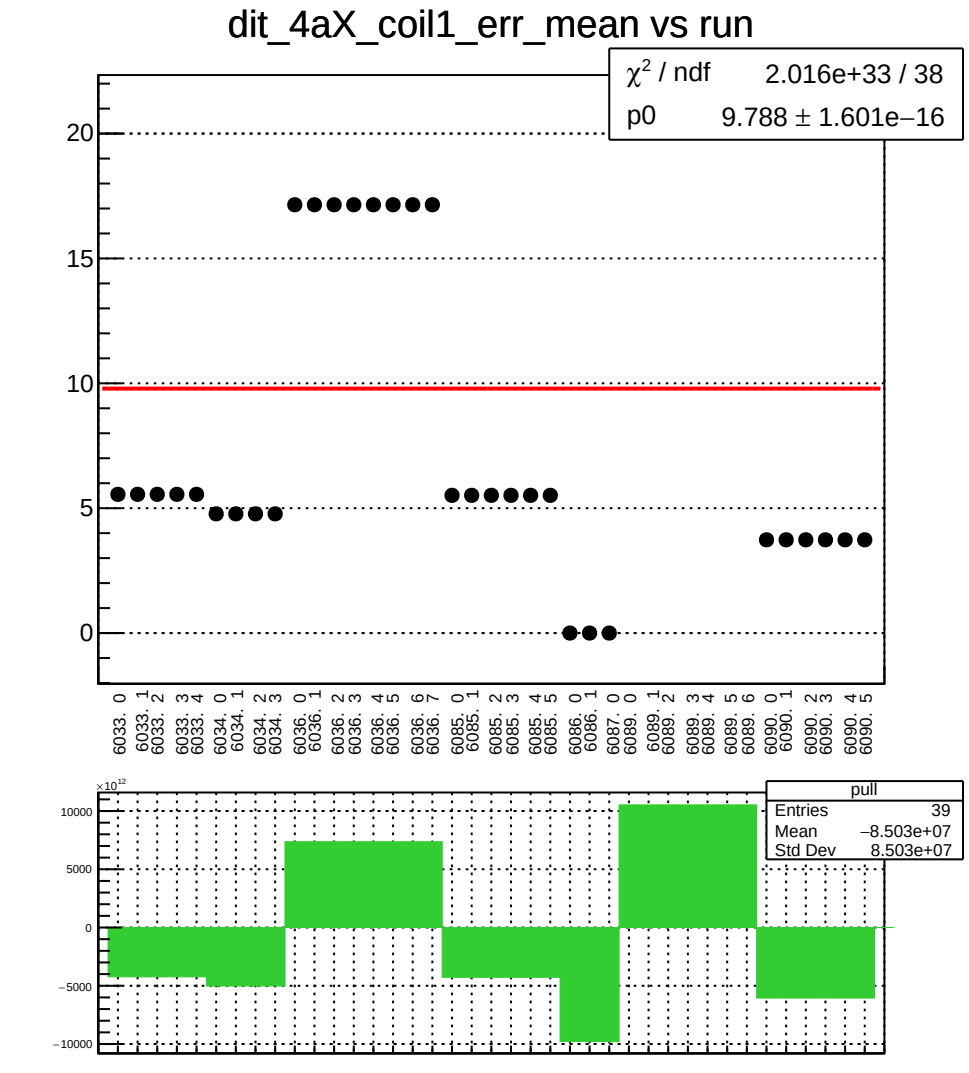

dit_sam8_11X12X_slope vs run
χ² / ndf 9.698e−30 / 38
p0 0.9045 ± 0.03565
1.1
1
0.9
0.8
0.7
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean −4.987e−16
Std Dev 6.617e−24
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

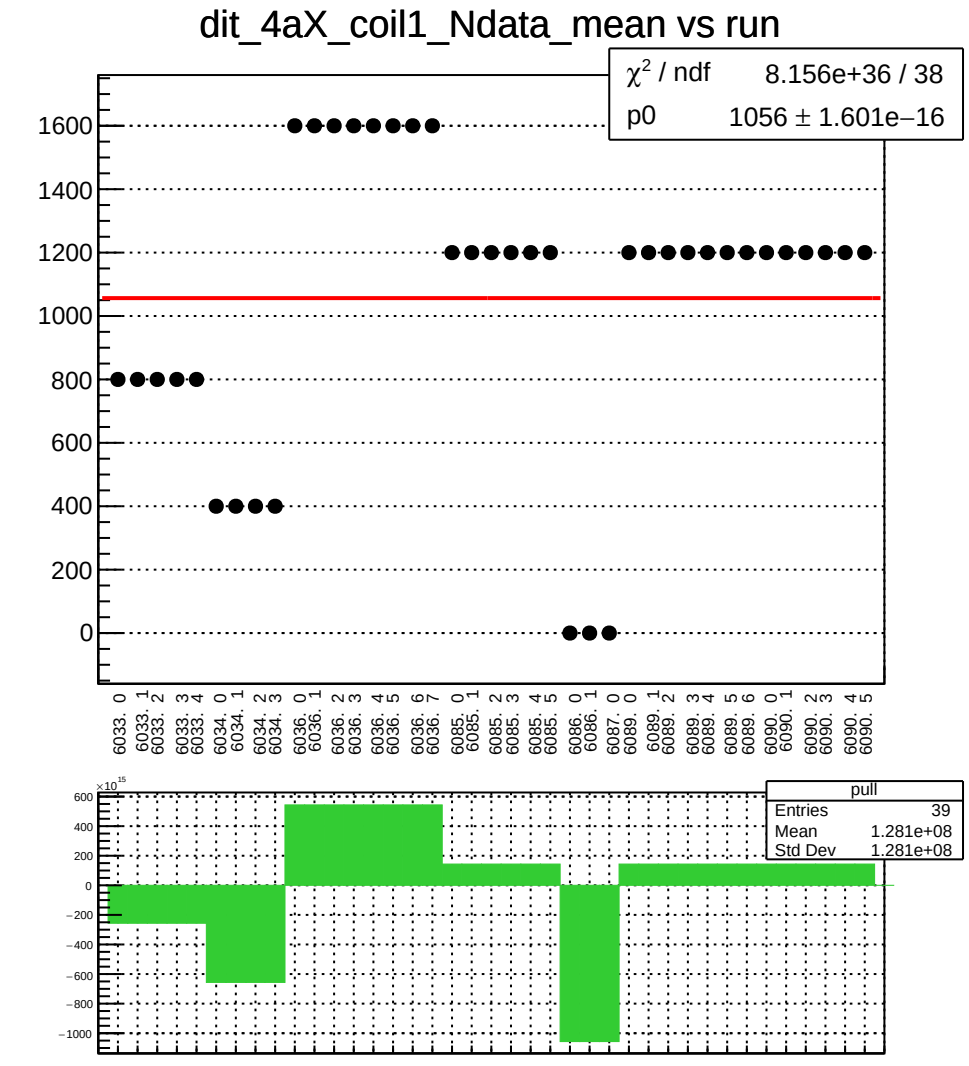

dit_sam8_4aY_slope vs run
χ² / ndf 1.2e−23 / 38
p0 −51.99 ± 0.01846
−51.85
−51.9
−51.95
−52
−52.05
−52.1
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁻¹²
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 39
Mean 19.5
Std Dev 11.25
pull1D
Entries 39
Mean 5.546e−13
Std Dev 1.66e−20
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

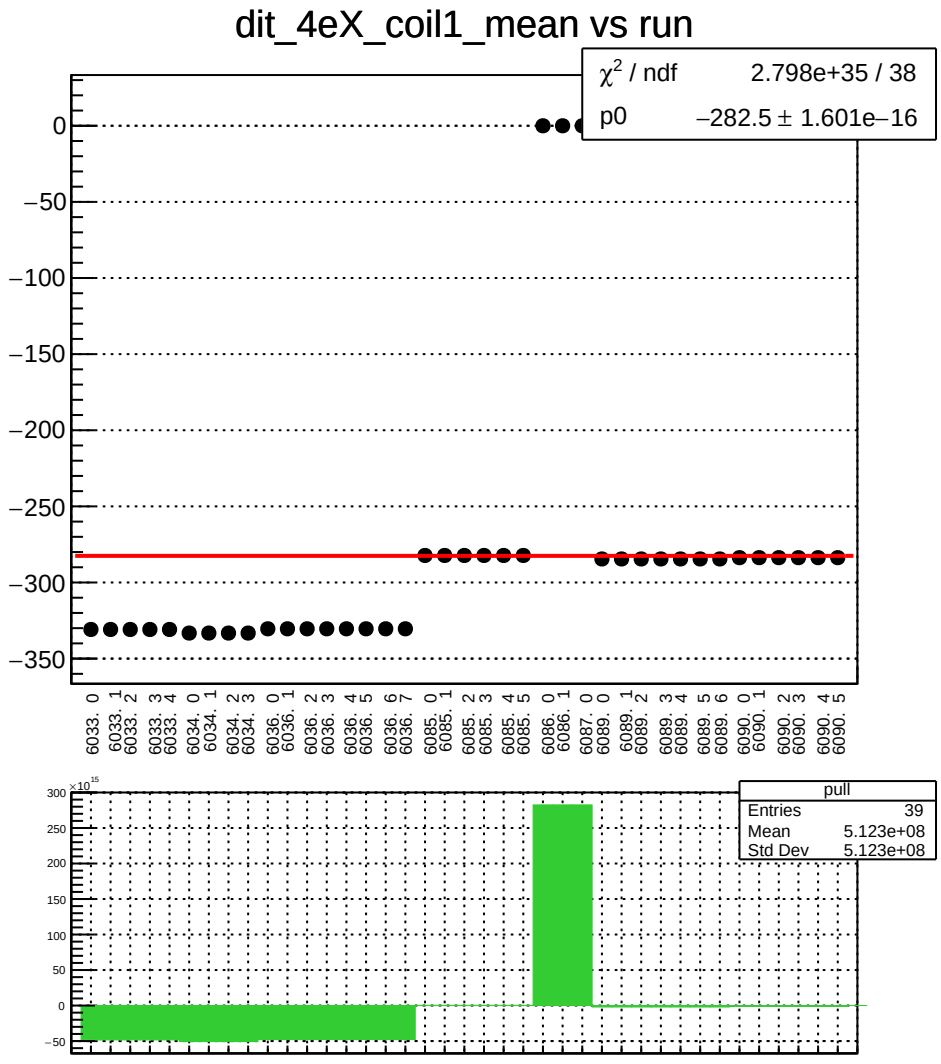

dit_sam8_4eY_slope vs run
χ² / ndf 6.938e−25 / 38
p0 66.75 ± 0.03412
67
66.9
66.8
66.7
66.6
66.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 19.5
Std Dev 11.25
×10⁻¹²
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 39
Mean 1.334e−13
Std Dev4.482e−21
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

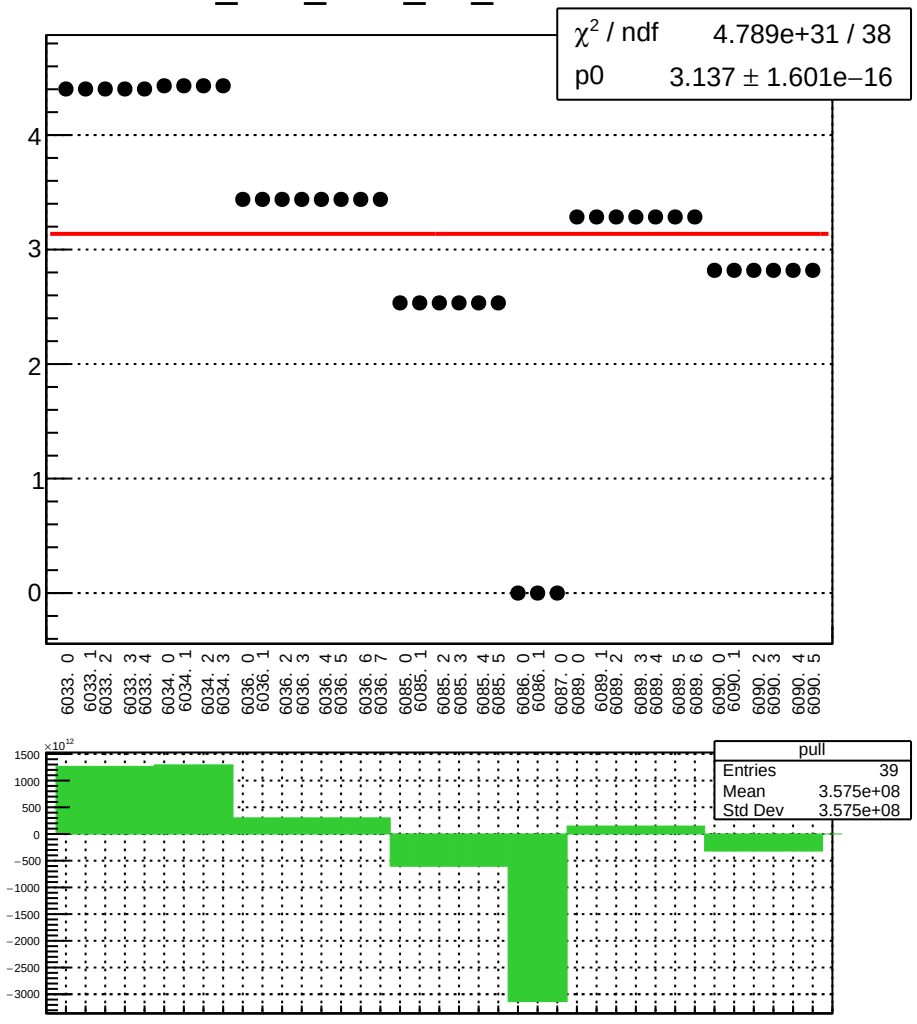

dit_4aX_coil1_mean vs run
χ² / ndf 2.25e+35 / 38
p0 −262.5 ± 1.601e−16
0
−50
−100
−150
−200
−250
−300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
250
200
150
100
50
0
pull
Entries 39
Mean −3.595e+08
Std Dev 3.595e+08

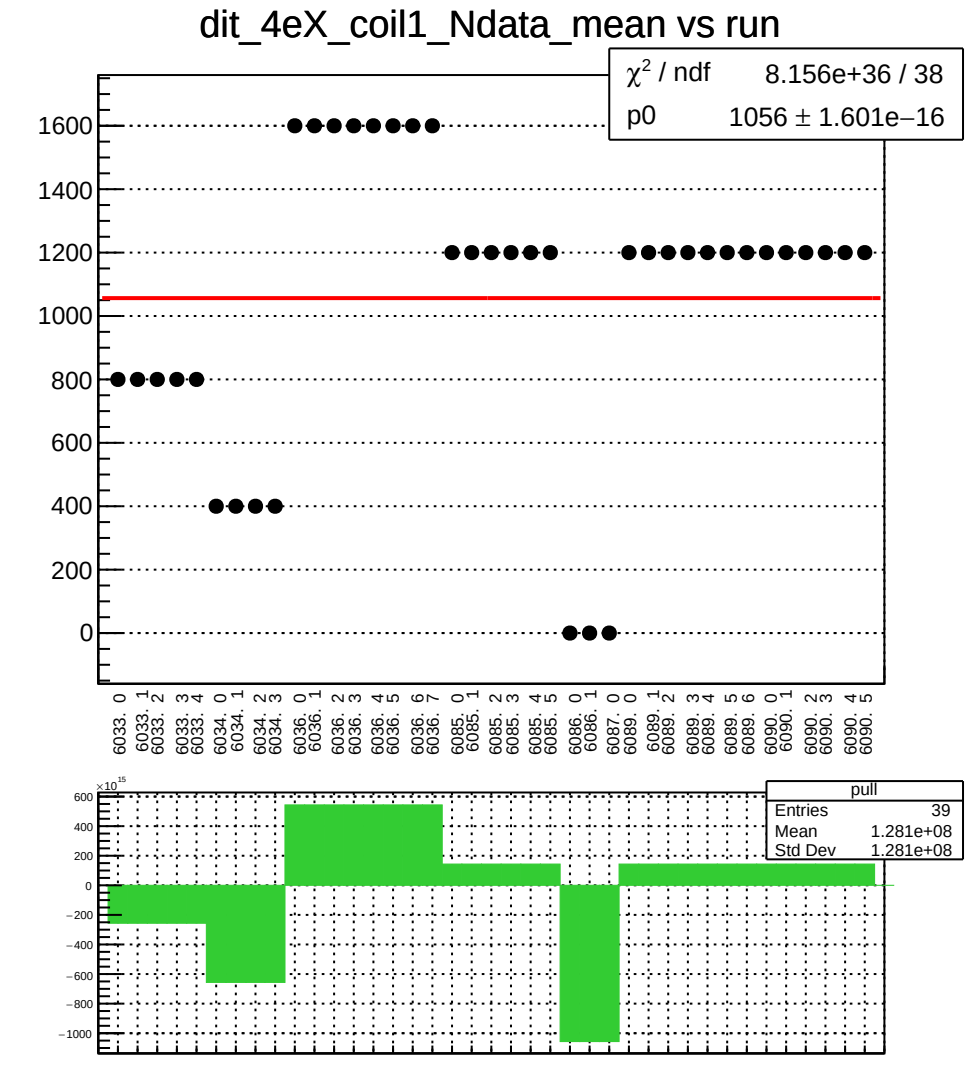

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

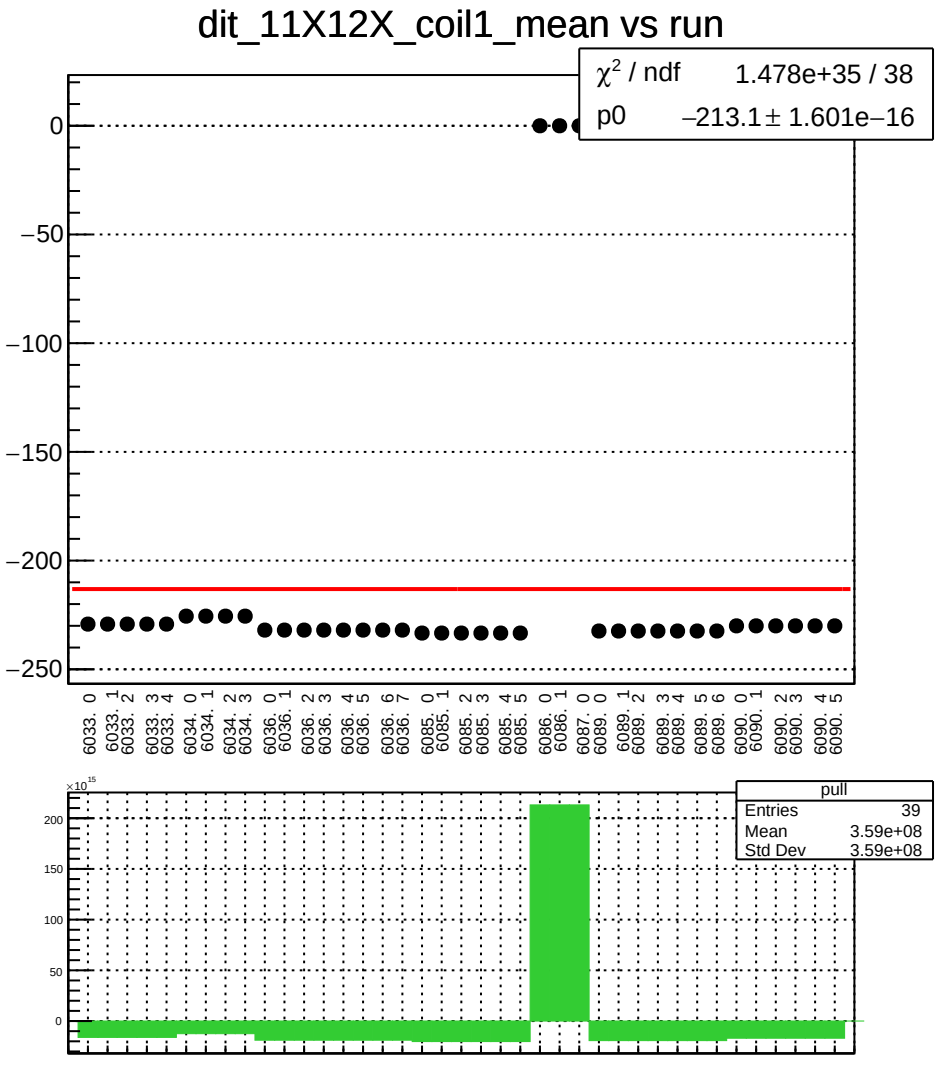

dit_4aX_coil1_err_mean vs run
χ² / ndf 2.016e+33 / 38
p0 9.788 ± 1.601e−16
20
15
10
5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
10000
5000
0
−5000
−10000
pull
Entries 39
Mean −8.503e+07
Std Dev 8.503e+07
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

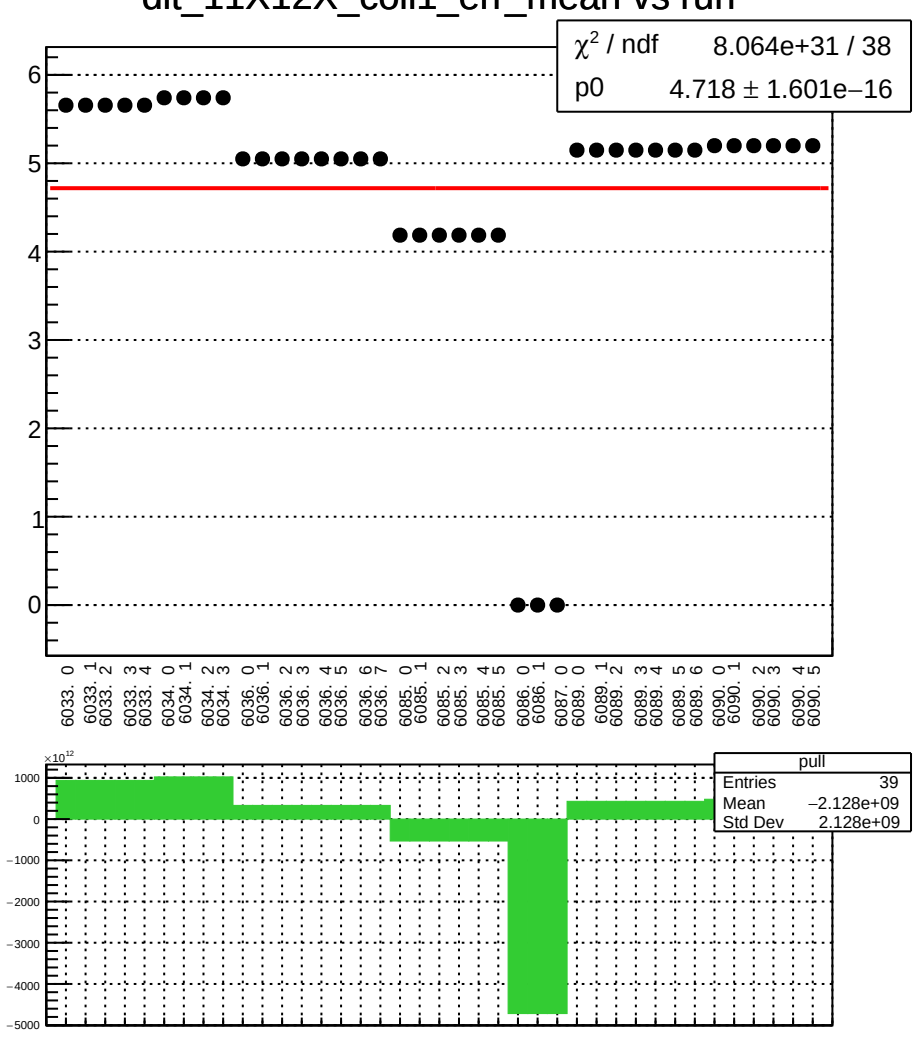

dit_4aX_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

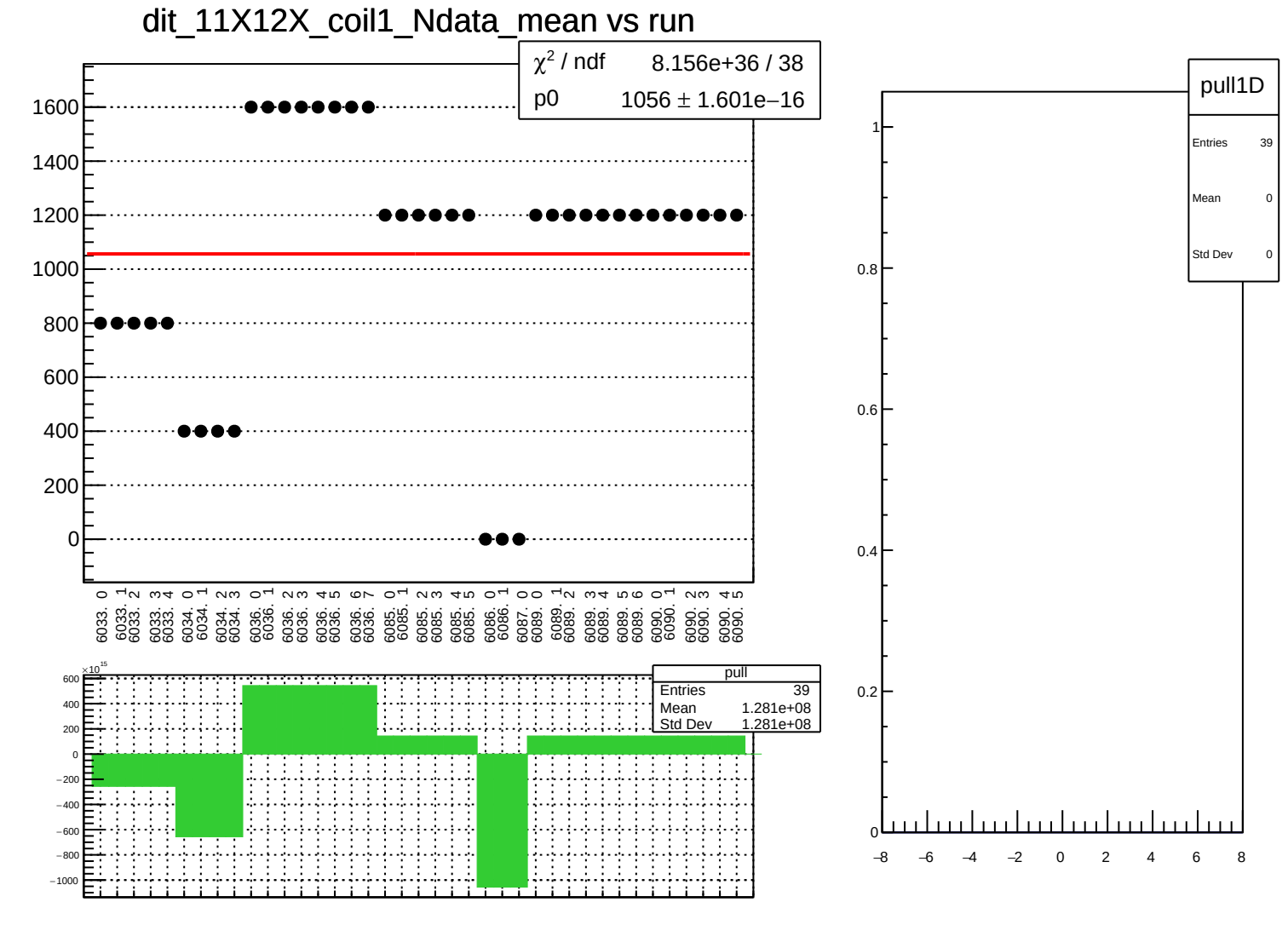

dit_4eX_coil1_mean vs run
χ² / ndf 2.798e+35 / 38
p0 −282.5 ± 1.601e−16
0
−50
−100
−150
−200
−250
−300
−350
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
300
250
200
150
100
50
0
−50
pull
Entries 39
Mean 5.123e+08
Std Dev 5.123e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

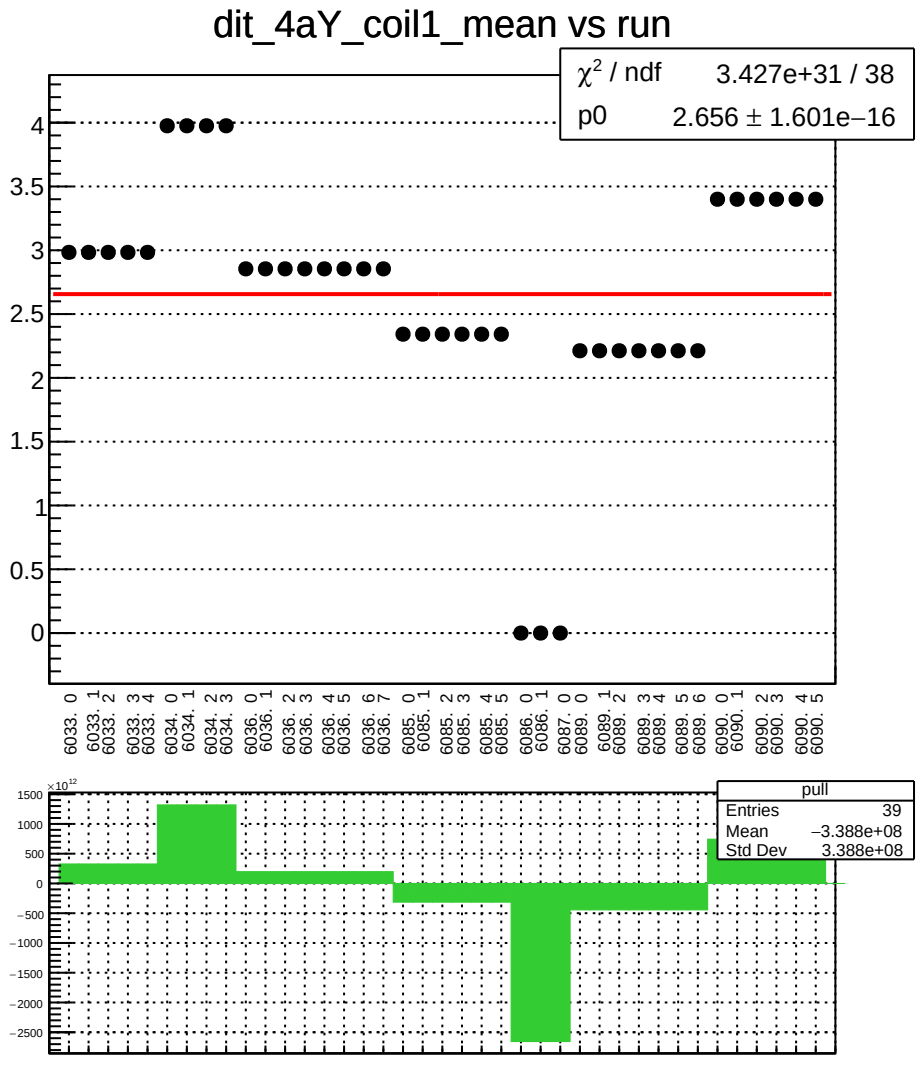

dit_4eX_coil1_err_mean vs run
χ² / ndf 4.789e+31 / 38
p0 3.137 ± 1.601e−16
pull
Entries 39
Mean 3.575e+08
Std Dev 3.575e+08
pull1D
Entries 39
Mean 0
Std Dev 0

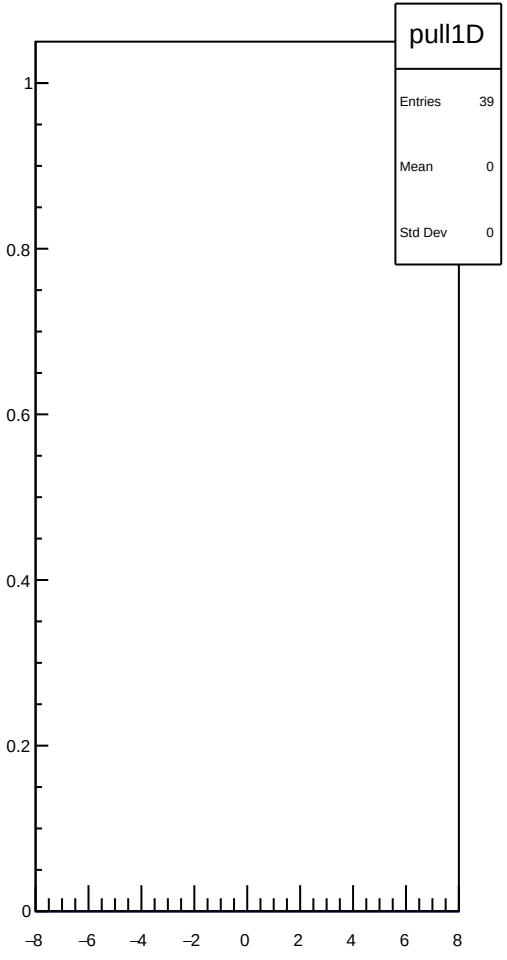

dit_4eX_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

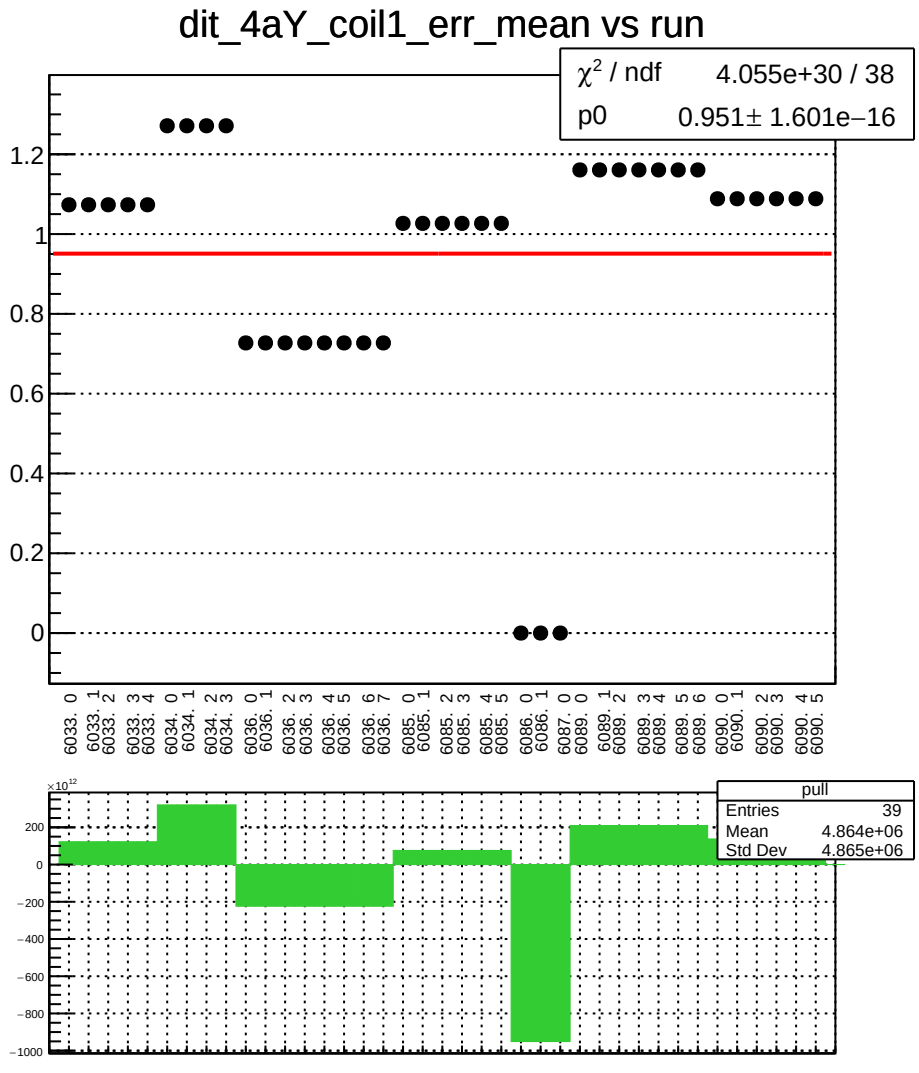

dit_11X12X_coil1_mean vs run
χ² / ndf 1.478e+35 / 38
p0 −213.1 ± 1.601e−16
0
−50
−100
−150
−200
−250
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
150
100
50
0
pull
Entries 39
Mean 3.59e+08
Std Dev 3.59e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

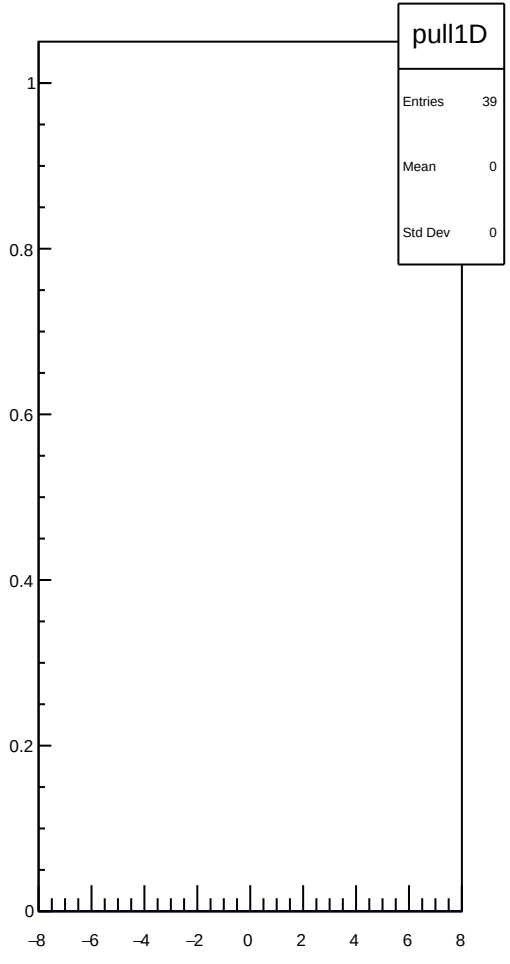

dit_11X12X_coil1_err_mean vs run
χ² / ndf 8.064e+31 / 38
p0 4.718 ± 1.601e−16
pull
Entries 39
Mean −2.128e+09
Std Dev 2.128e+09
pull1D
Entries 39
Mean 0
Std Dev 0

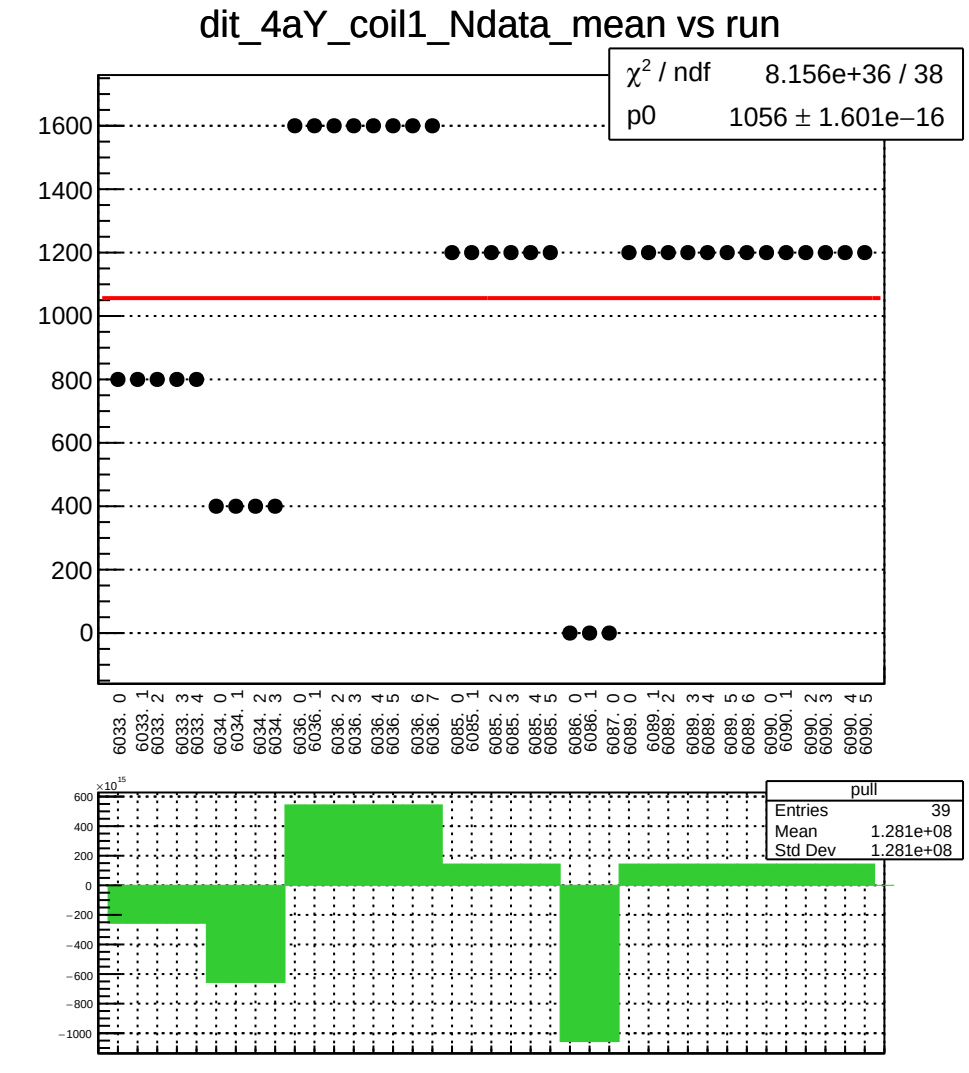

dit_11X12X_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

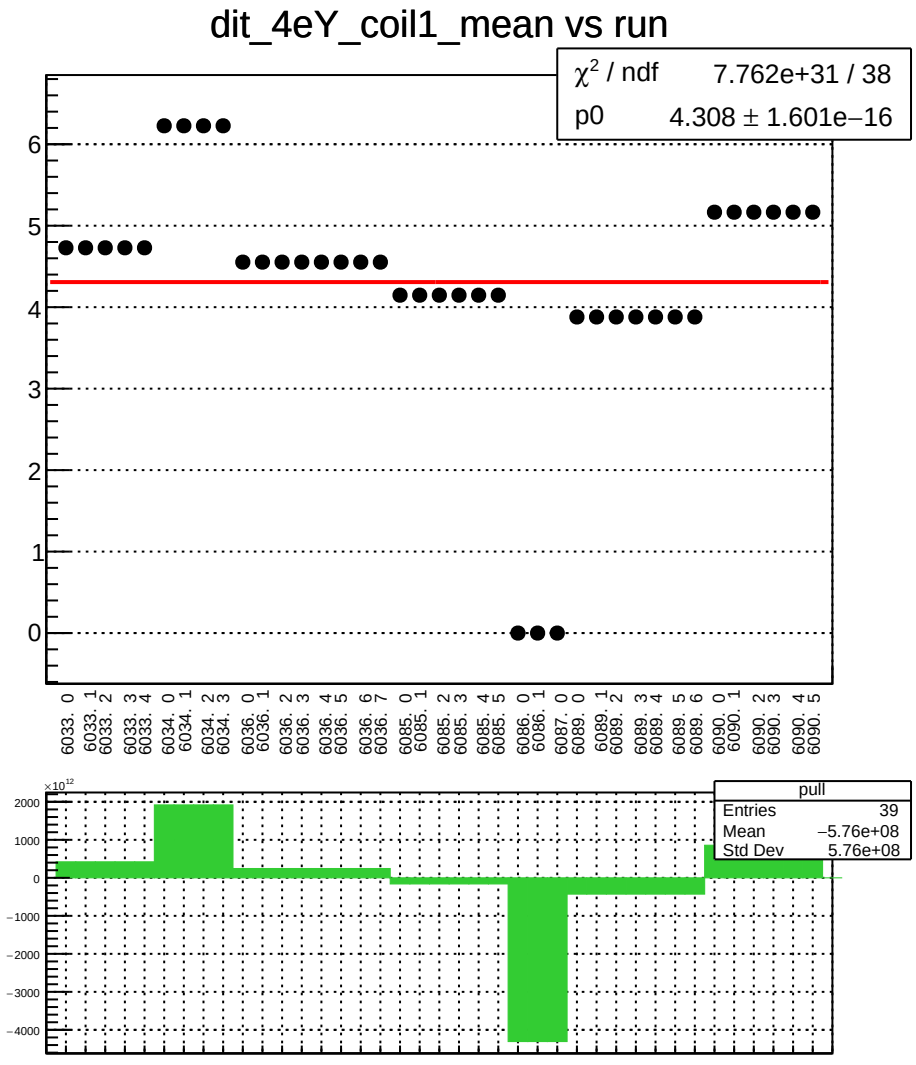

dit_4aY_coil1_mean vs run
χ² / ndf 3.427e+31 / 38
p0 2.656 ± 1.601e−16
4
3.5
3
2.5
2
1.5
1
0.5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 39
Mean −3.388e+08
Std Dev 3.388e+08

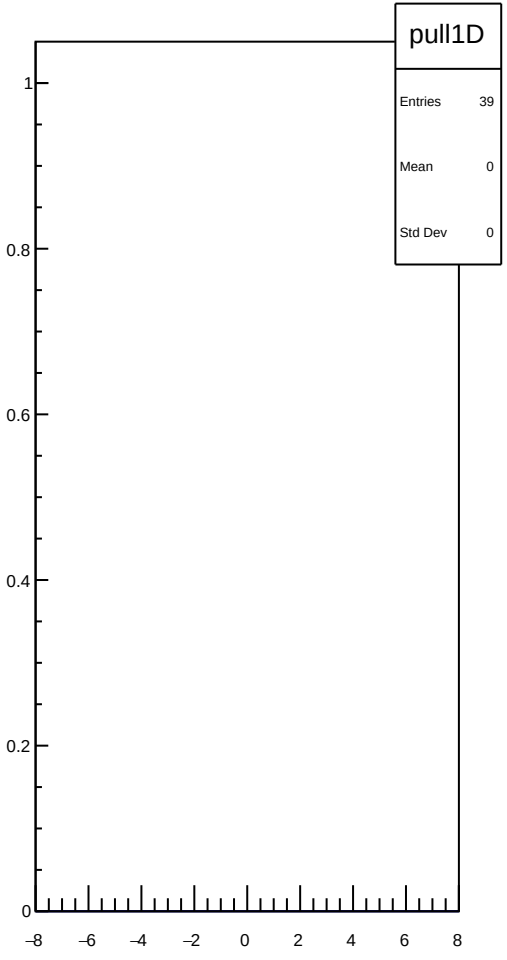

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

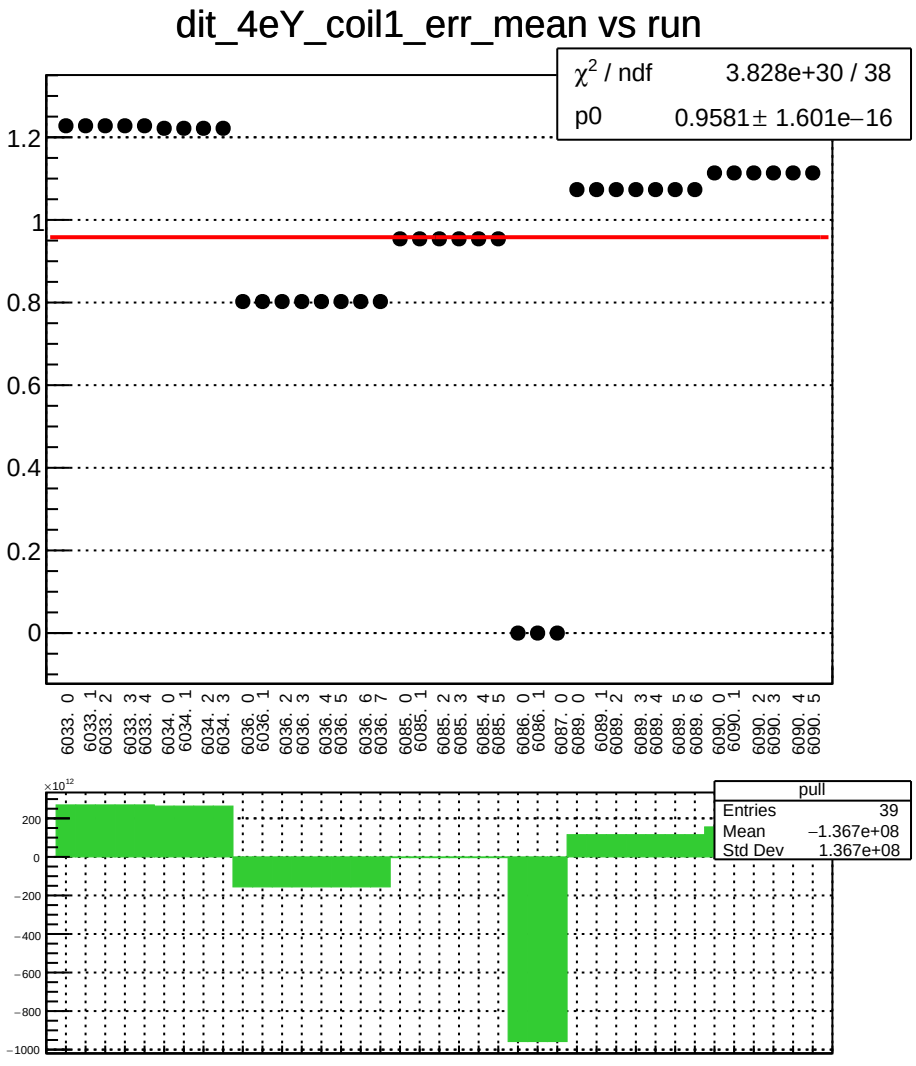

dit_4aY_coil1_err_mean vs run
χ² / ndf 4.055e+30 / 38
p0 0.951± 1.601e−16
pull
Entries 39
Mean 4.864e+06
Std Dev 4.865e+06

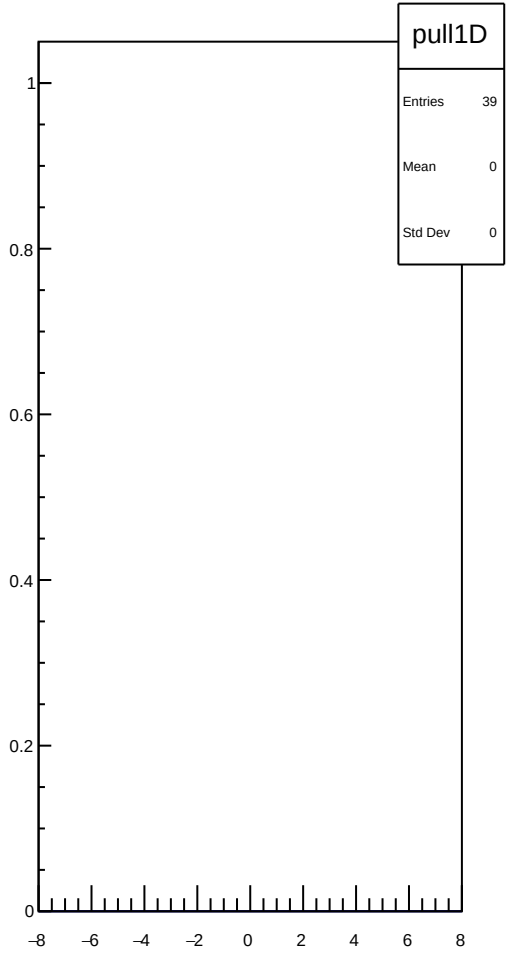

pull1D
Entries 39
Mean 0
Std Dev 0

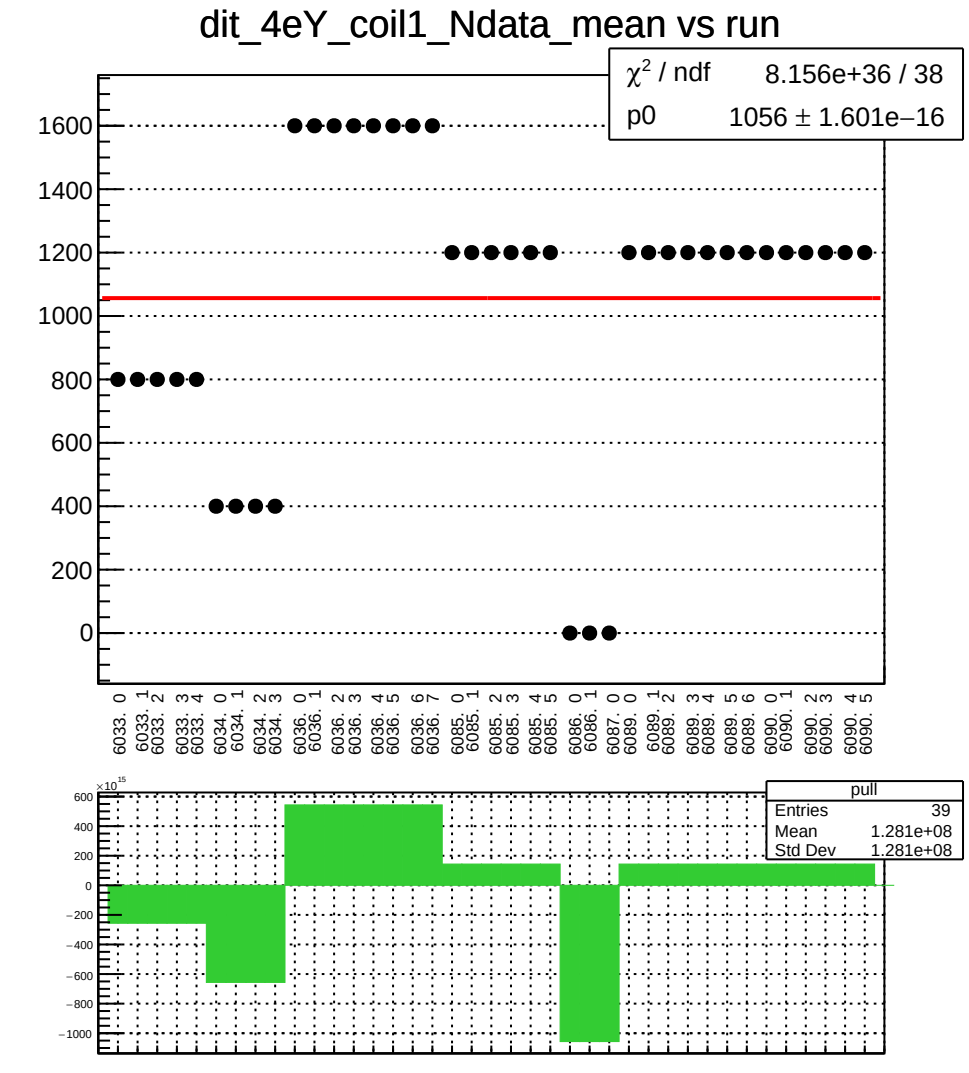

dit_4aY_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

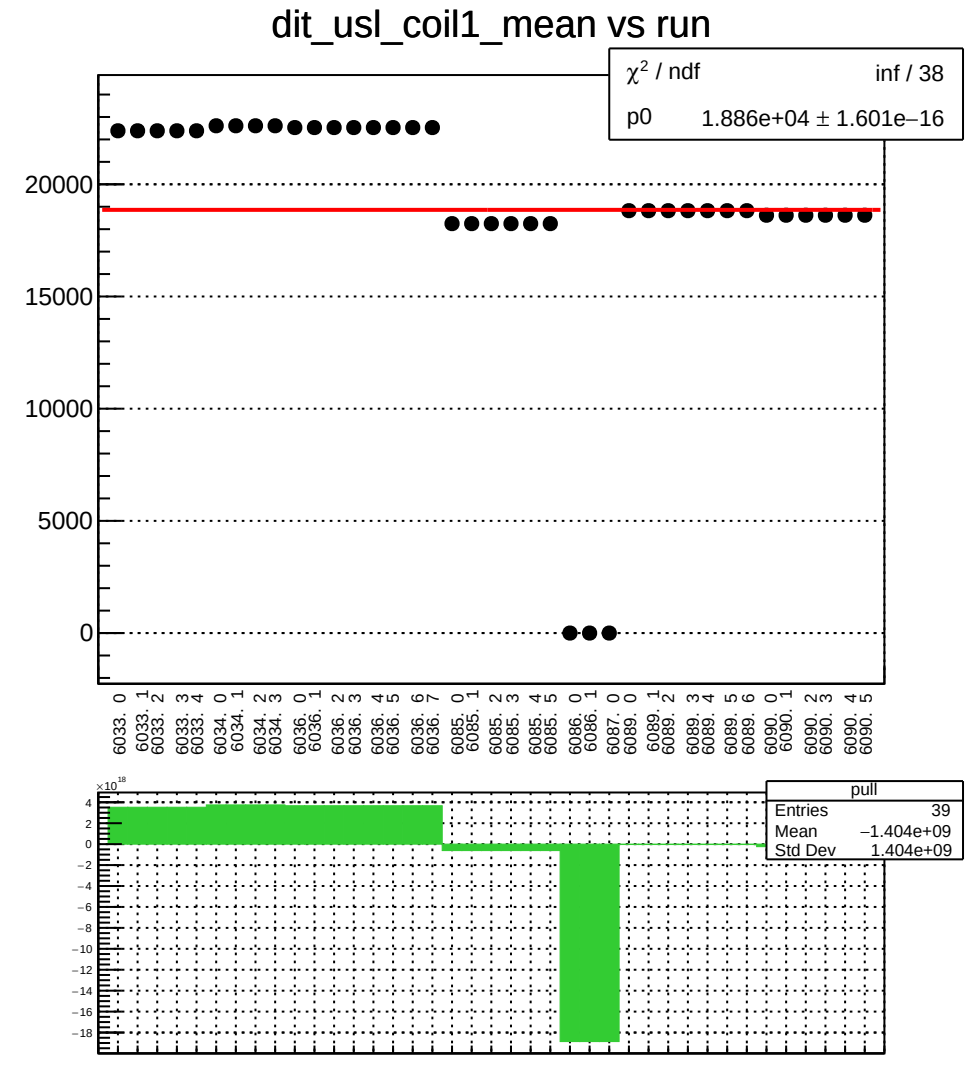

dit_4eY_coil1_mean vs run
χ² / ndf 7.762e+31 / 38
p0 4.308 ± 1.601e−16
pull
Entries 39
Mean −5.76e+08
Std Dev 5.76e+08
×10¹²

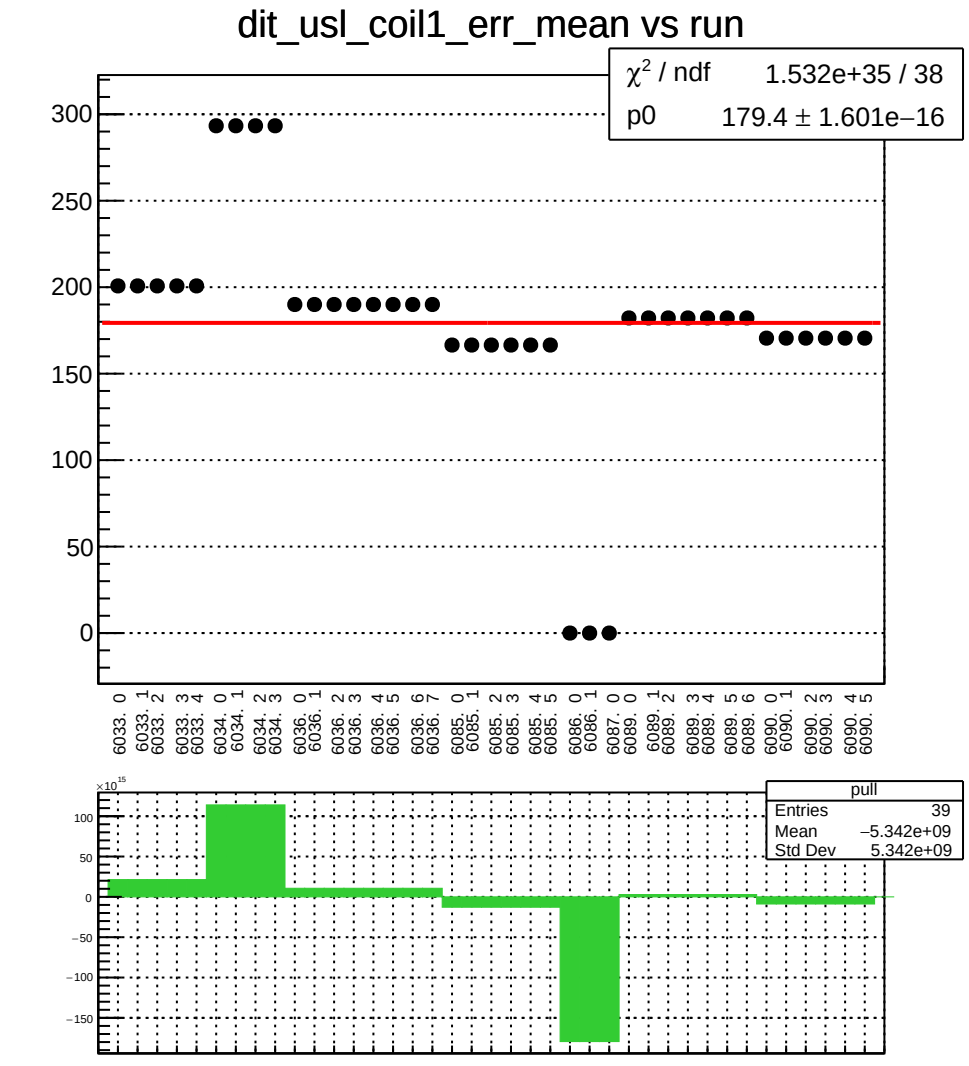

pull1D
Entries 39
Mean 0
Std Dev 0

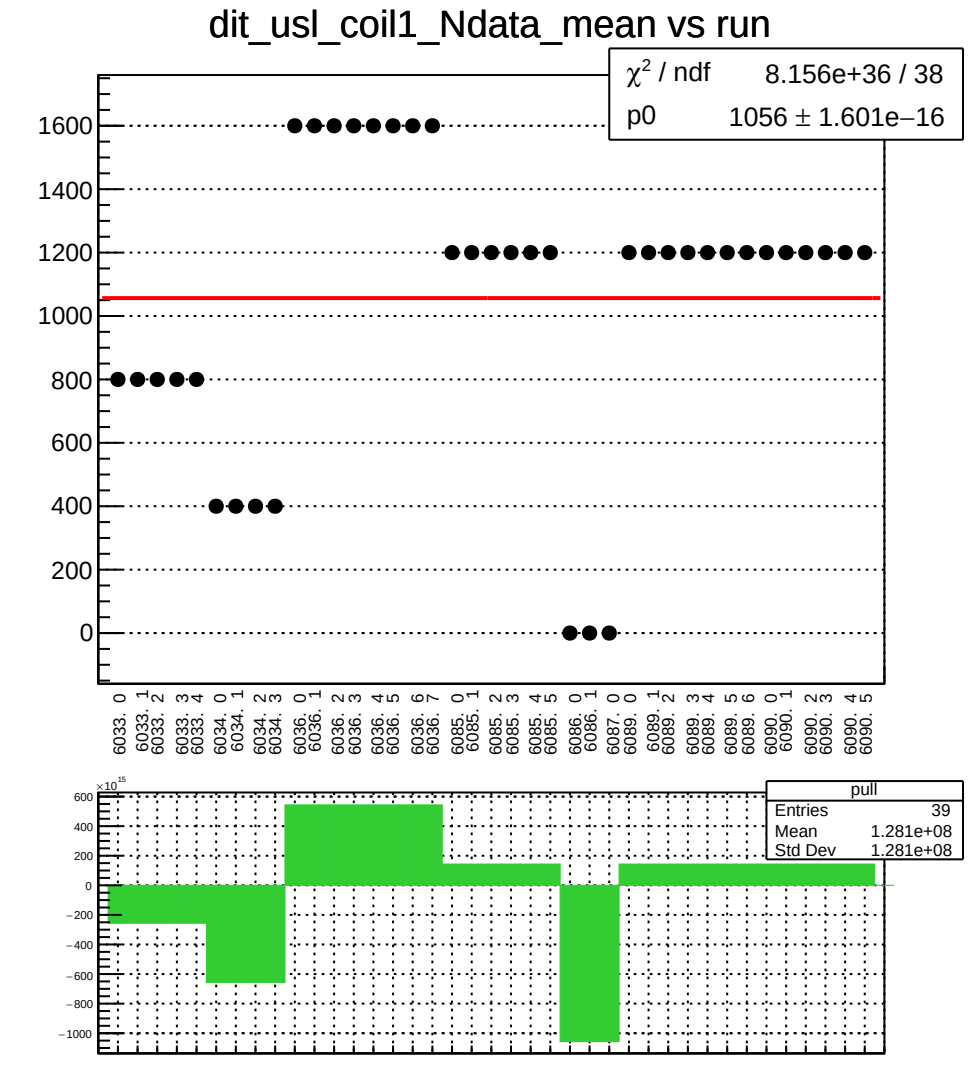

dit_4eY_coil1_err_mean vs run
χ² / ndf 3.828e+30 / 38
p0 0.9581 ± 1.601e−16
pull
Entries 39
Mean −1.367e+08
Std Dev 1.367e+08

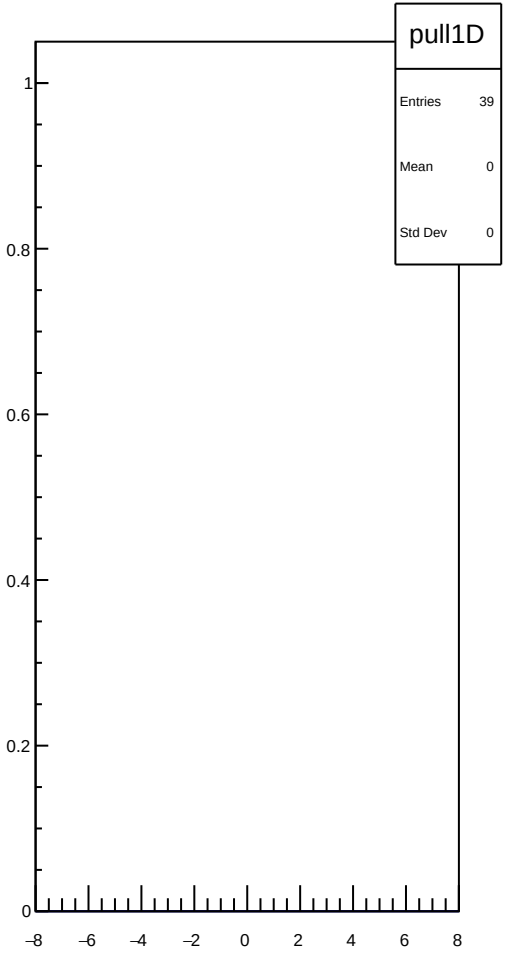

pull1D
Entries 39
Mean 0
Std Dev 0

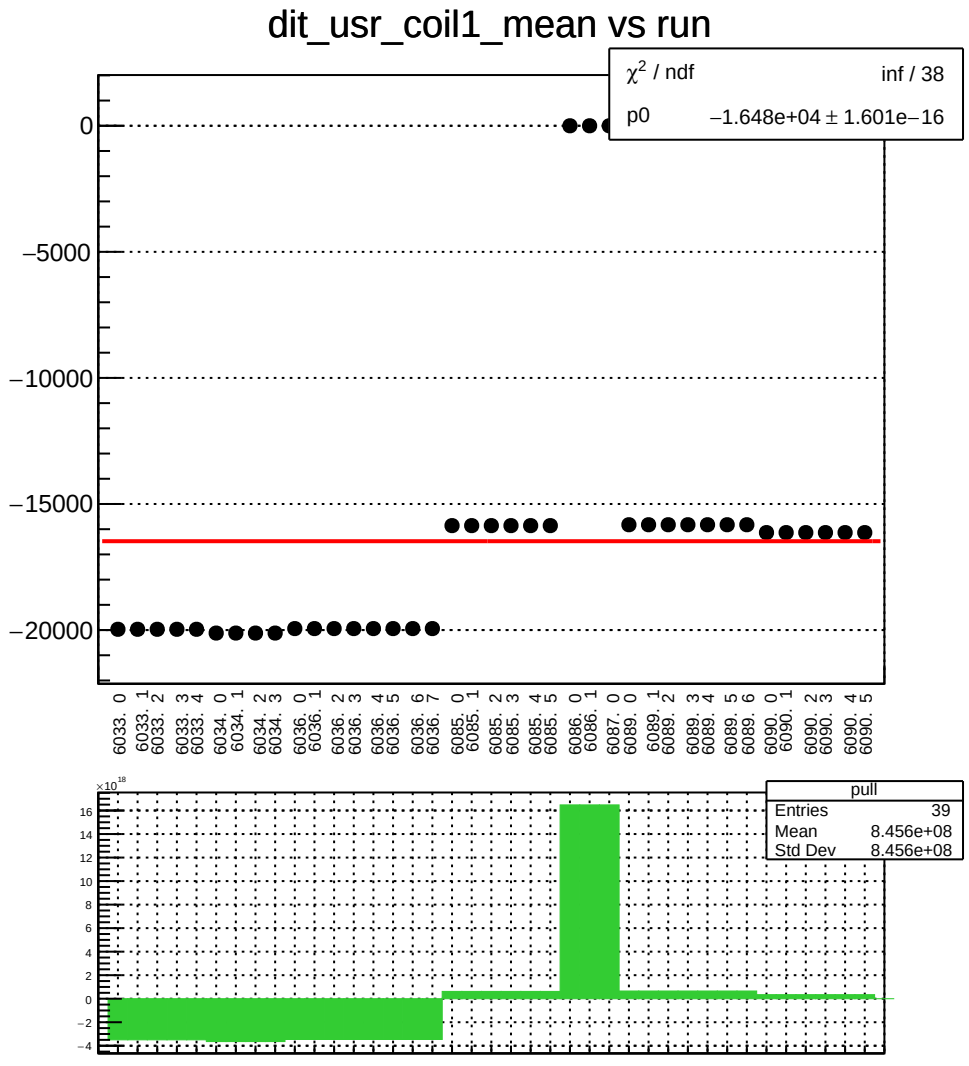

dit_4eY_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

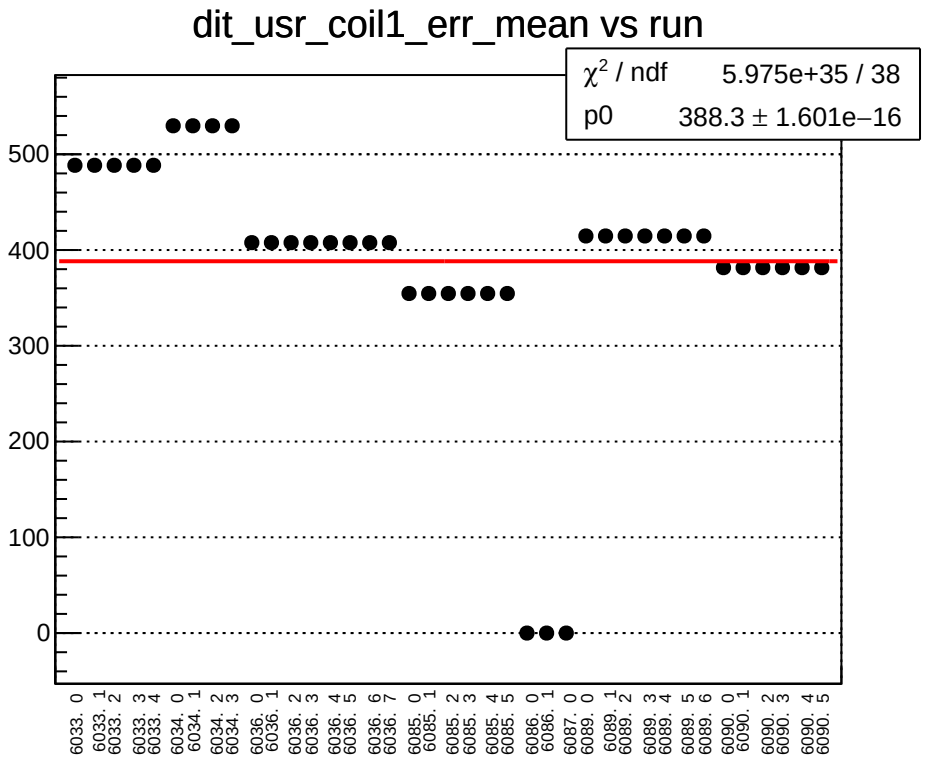

dit_usl_coil1_mean vs run
χ² / ndf inf / 38
p0 1.886e+04 ± 1.601e−16
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
pull
Entries 39
Mean −1.404e+09
Std Dev 1.404e+09
pull1D
Entries 39
Mean 0
Std Dev 0

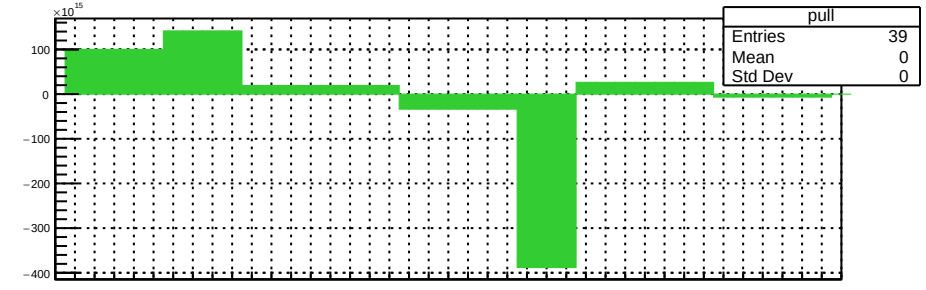

dit_usl_coil1_err_mean vs run
χ² / ndf 1.532e+35 / 38
p0 179.4 ± 1.601e−16
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
50
0
−50
−100
−150
pull
Entries 39
Mean −5.342e+09
Std Dev 5.342e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

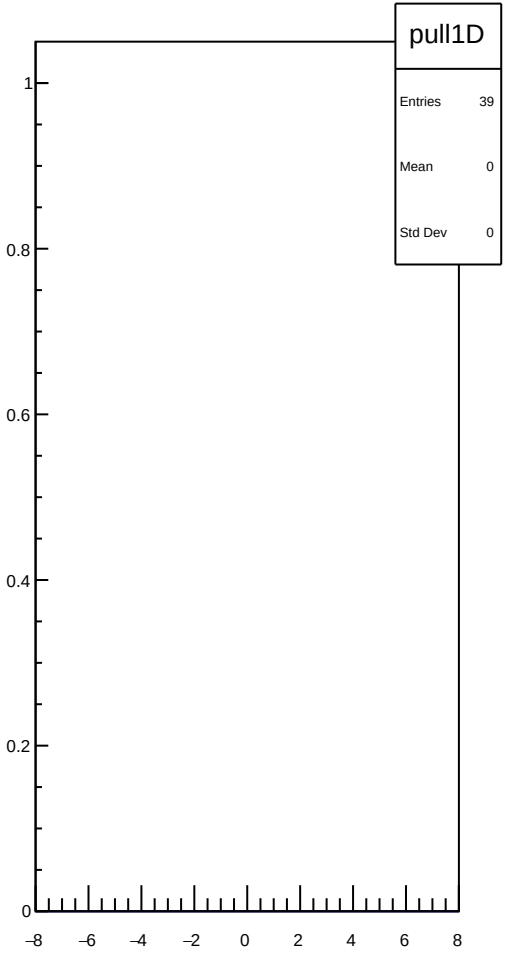

dit_usl_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08

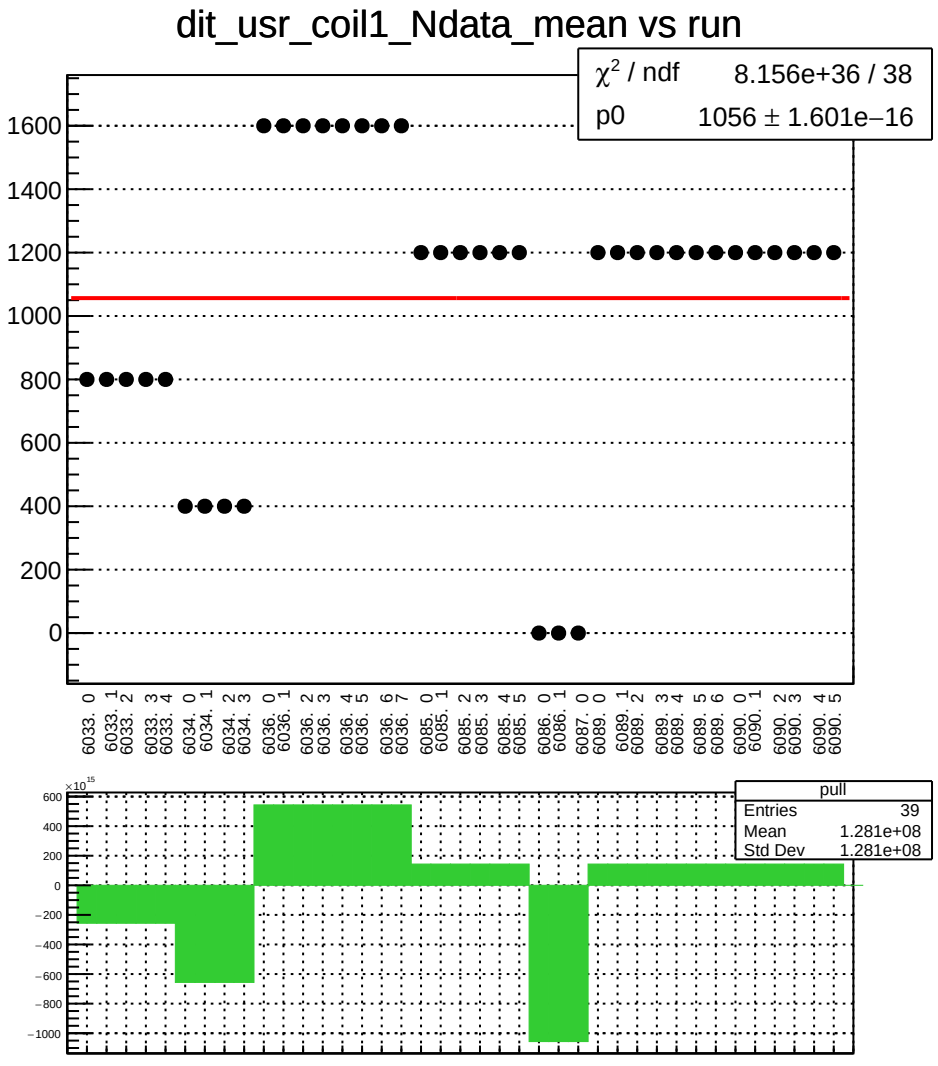

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

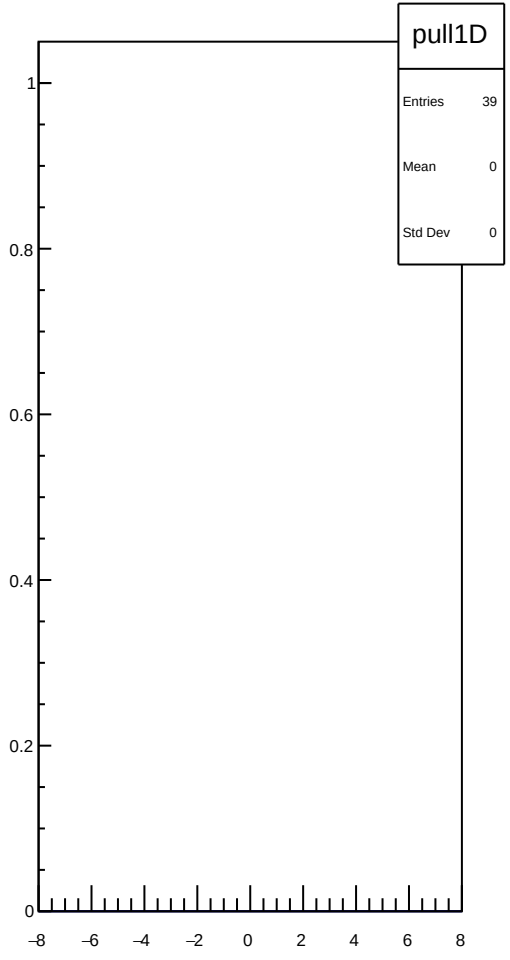

dit_usr_coil1_mean vs run
χ² / ndf inf / 38
p0 −1.648e+04 ± 1.601e−16
0
−5000
−10000
−15000
−20000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
16
14
12
10
8
6
4
2
0
−2
−4
pull
Entries 39
Mean 8.456e+08
Std Dev 8.456e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

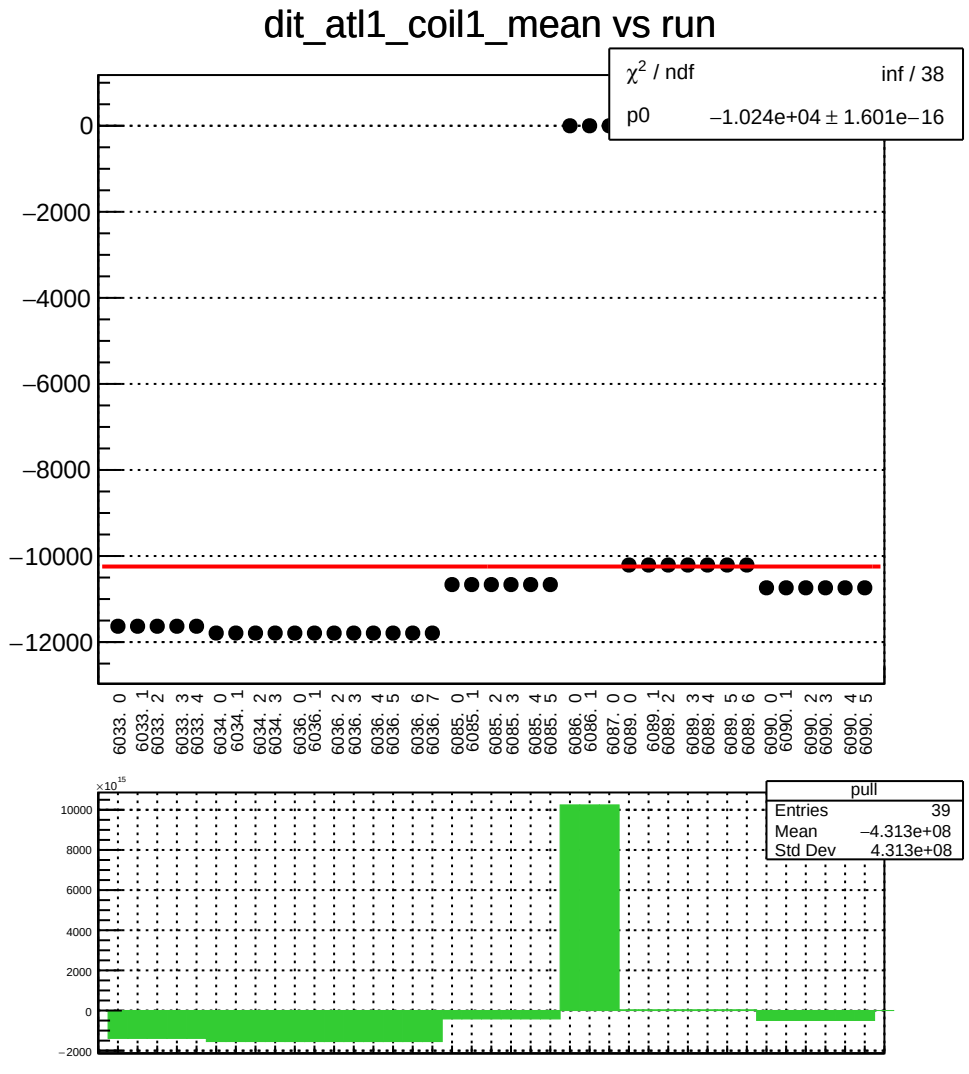

dit_usr_coil1_err_mean vs run
χ² / ndf 5.975e+35 / 38
p0 388.3 ± 1.601e−16
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

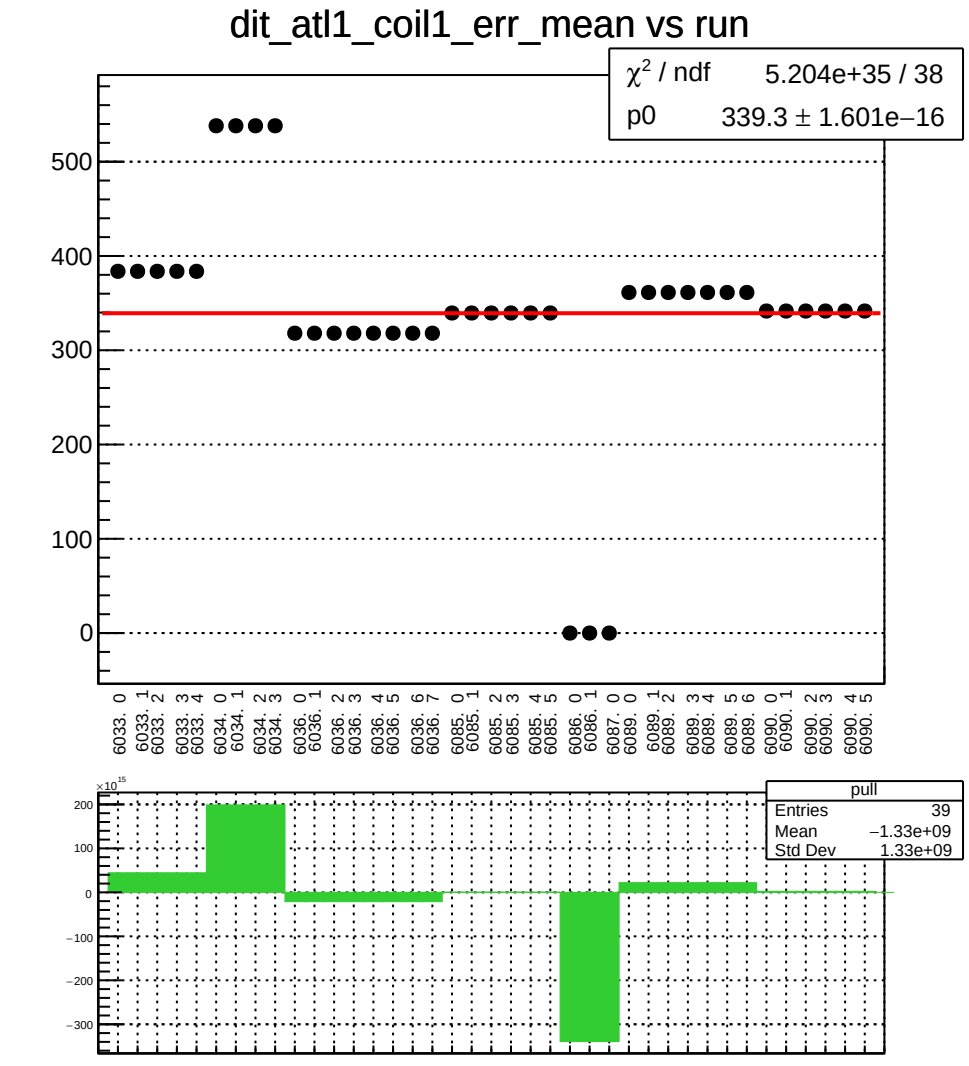

×10¹⁵
100
0
−100
−200
−300
−400
pull
Entries 39
Mean 0
Std Dev 0

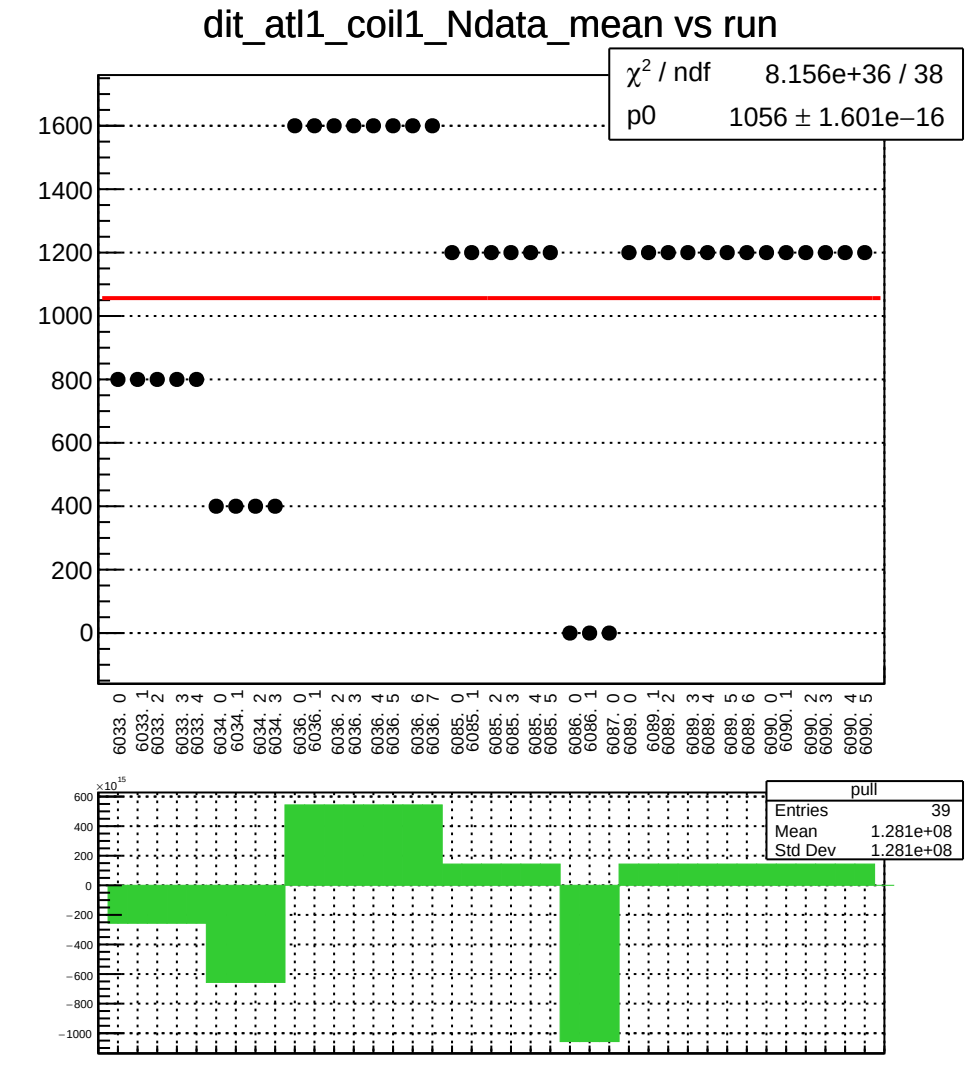

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

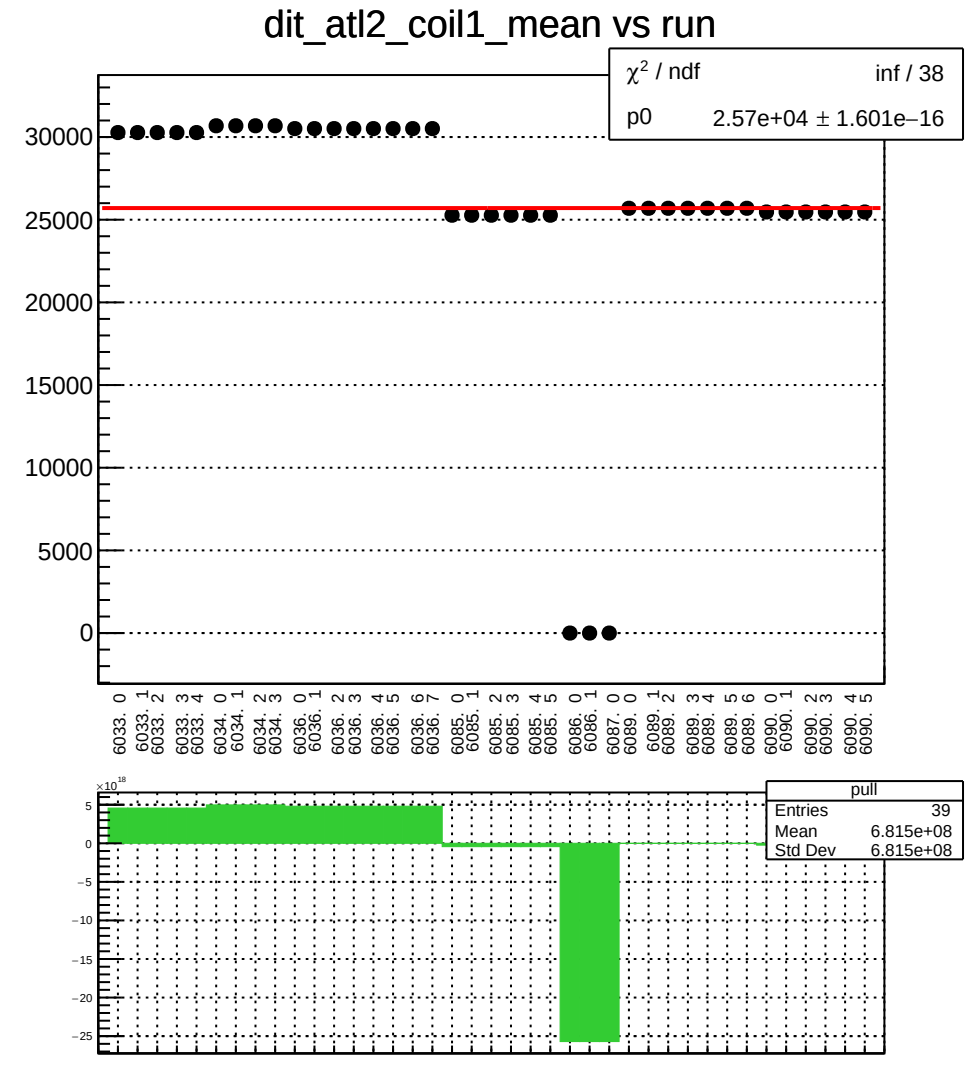

dit_usr_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08

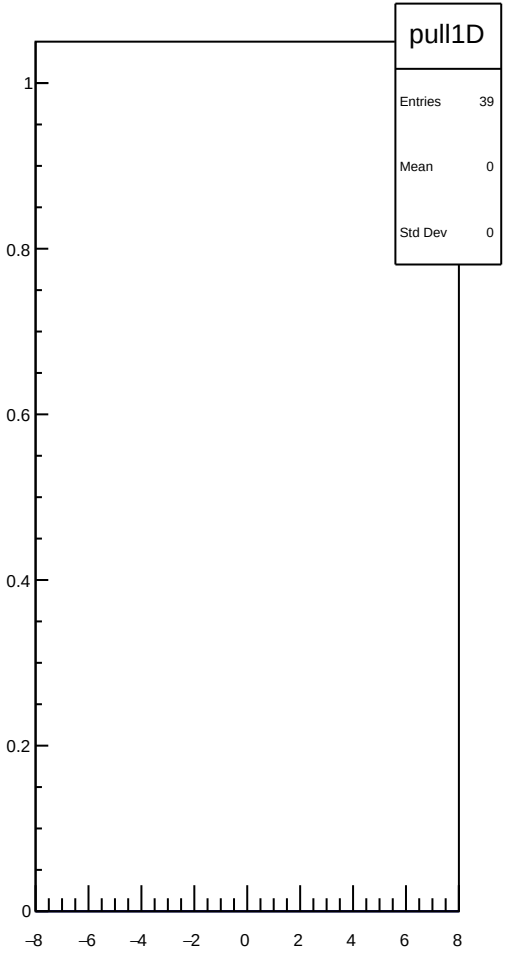

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

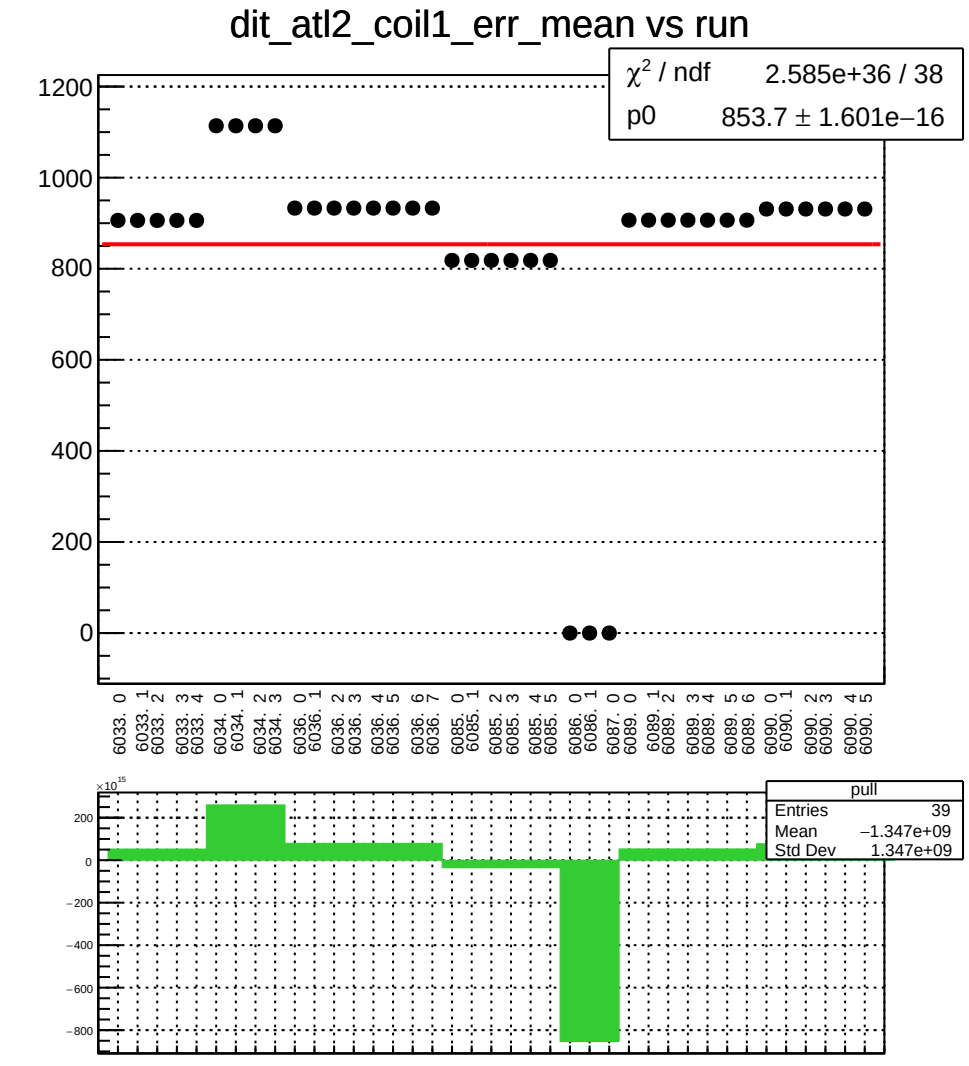

dit_atl1_coil1_mean vs run
χ² / ndf inf / 38
p0 −1.024e+04 ± 1.601e−16
0
−2000
−4000
−6000
−8000
−10000
−12000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
10000
8000
6000
4000
2000
0
−2000
pull
Entries 39
Mean −4.313e+08
Std Dev 4.313e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

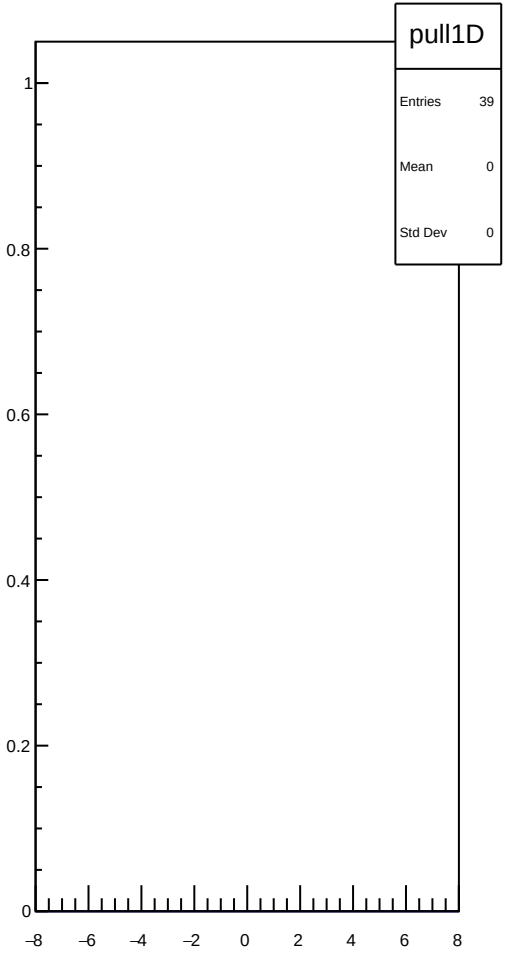

dit_atl1_coil1_err_mean vs run
χ² / ndf 5.204e+35 / 38
p0 339.3 ± 1.601e−16
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
100
0
−100
−200
−300
pull
Entries 39
Mean −1.33e+09
Std Dev 1.33e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

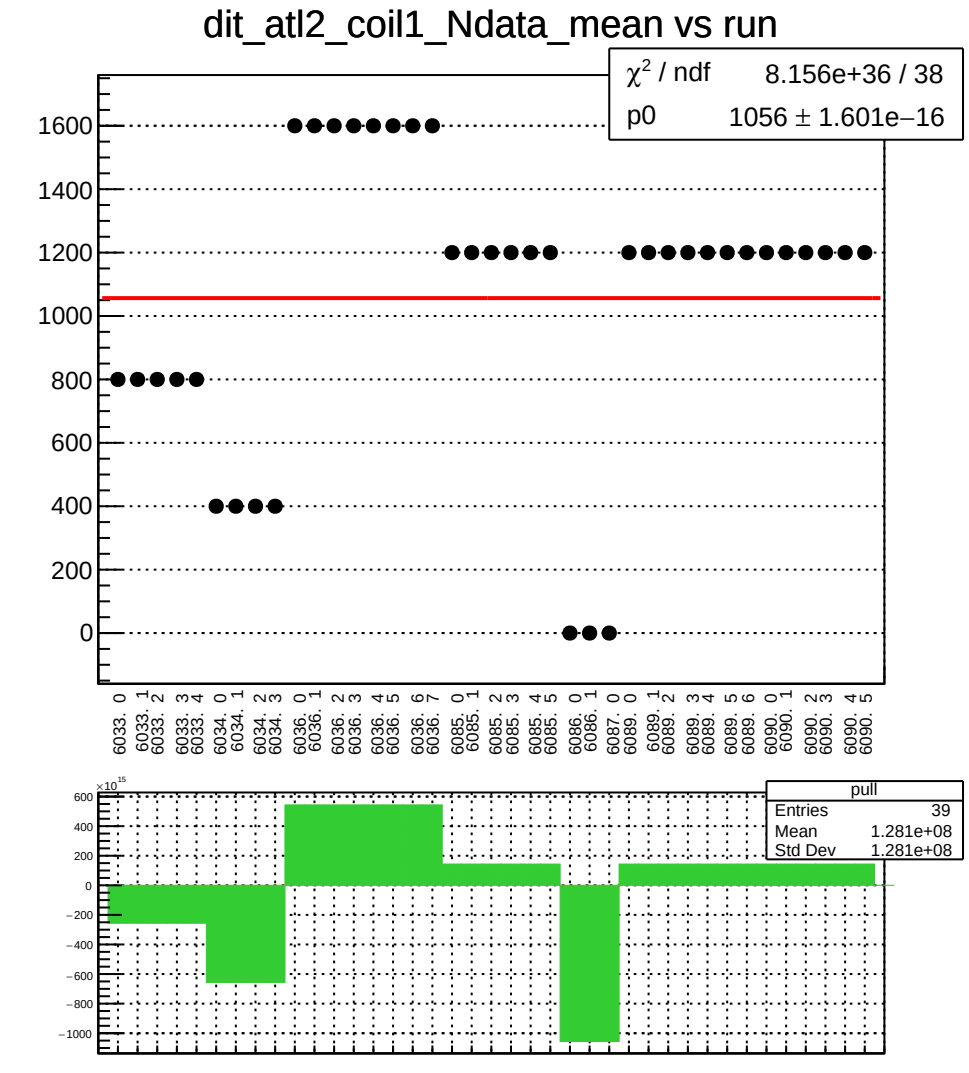

dit_atl1_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

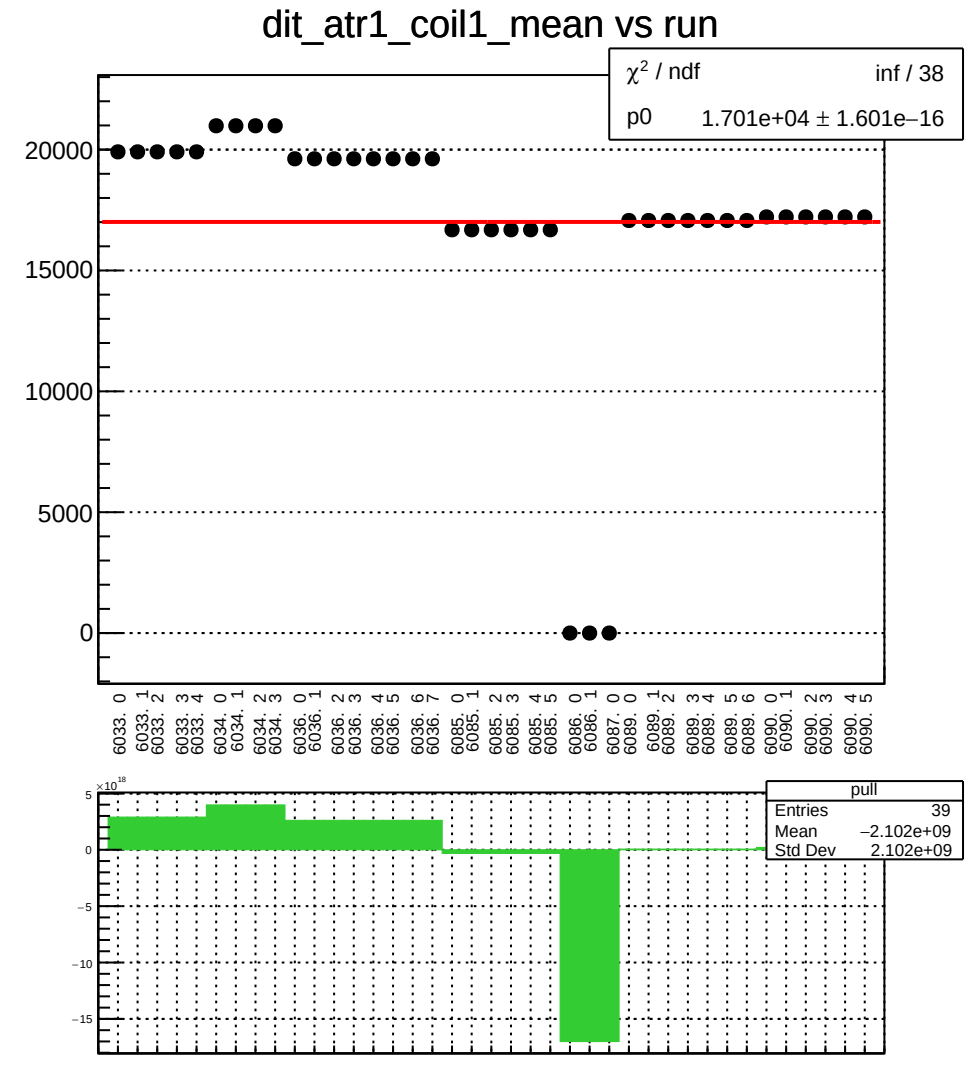

dit_atl2_coil1_mean vs run
χ² / ndf inf / 38
p0 2.57e+04 ± 1.601e−16
30000
25000
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
5
0
−5
−10
−15
−20
−25
pull
Entries 39
Mean 6.815e+08
Std Dev 6.815e+08

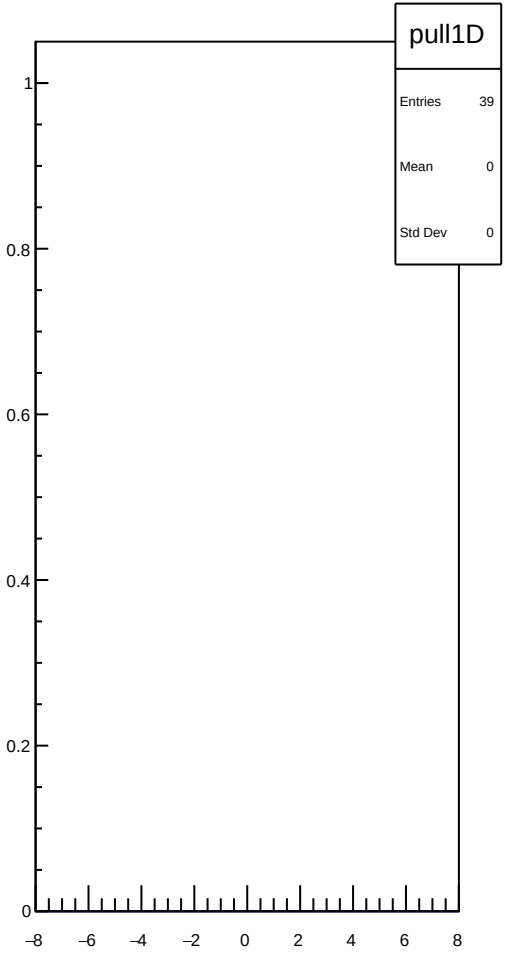

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

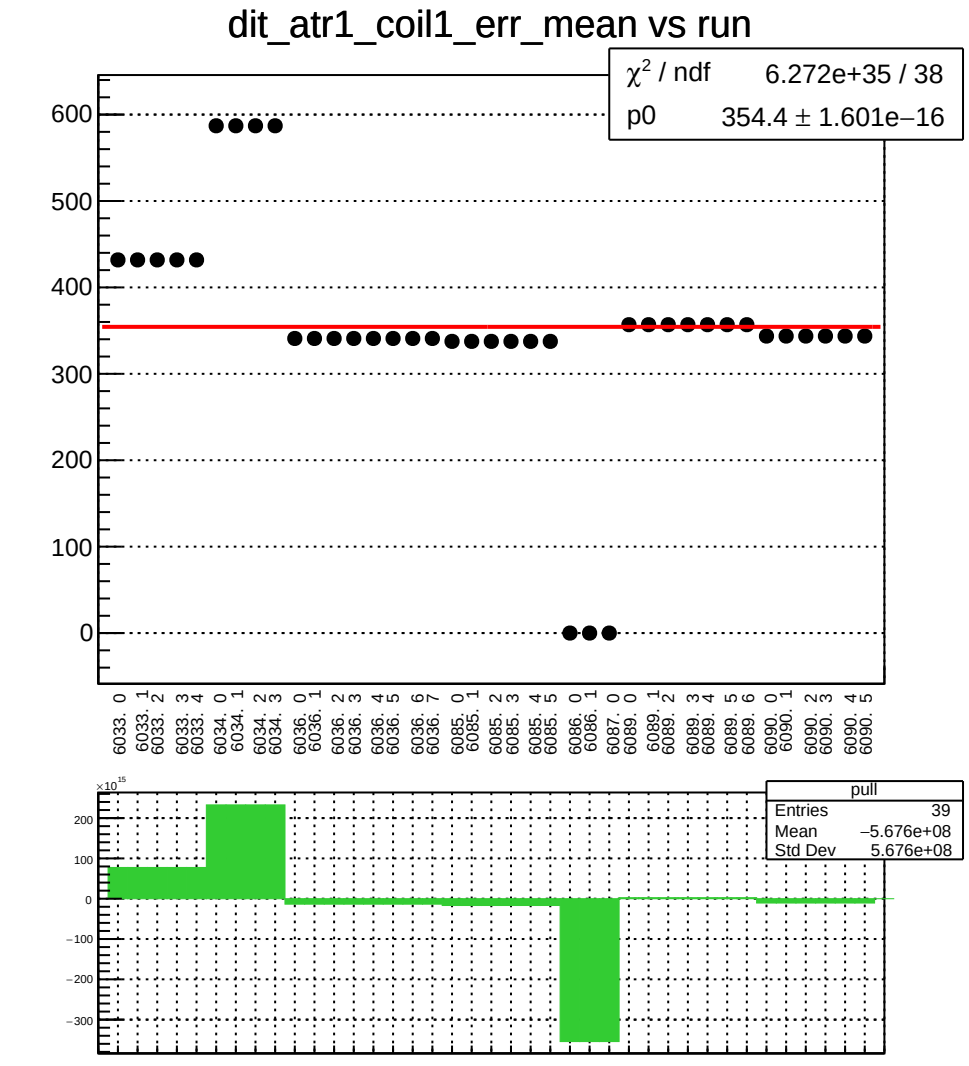

dit_atl2_coil1_err_mean vs run
χ² / ndf 2.585e+36 / 38
p0 853.7 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −1.347e+09
Std Dev 1.347e+09

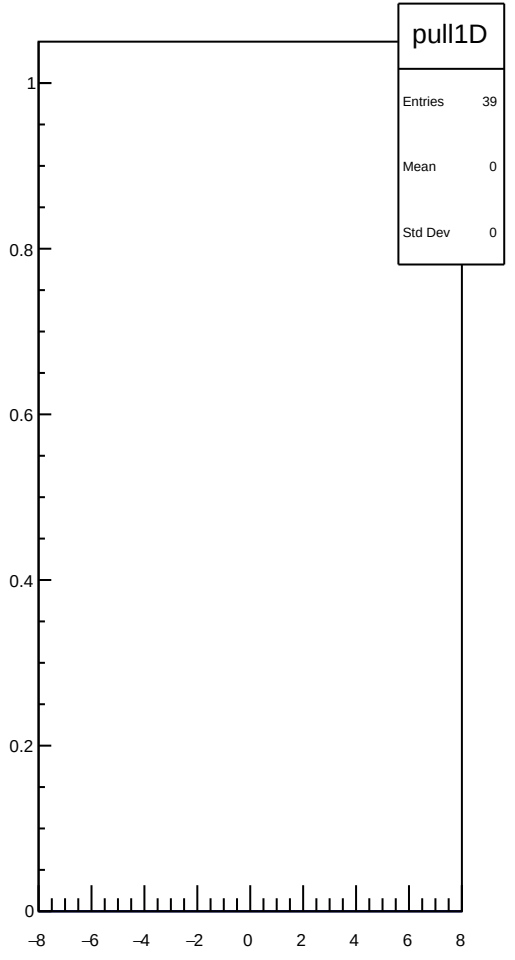

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

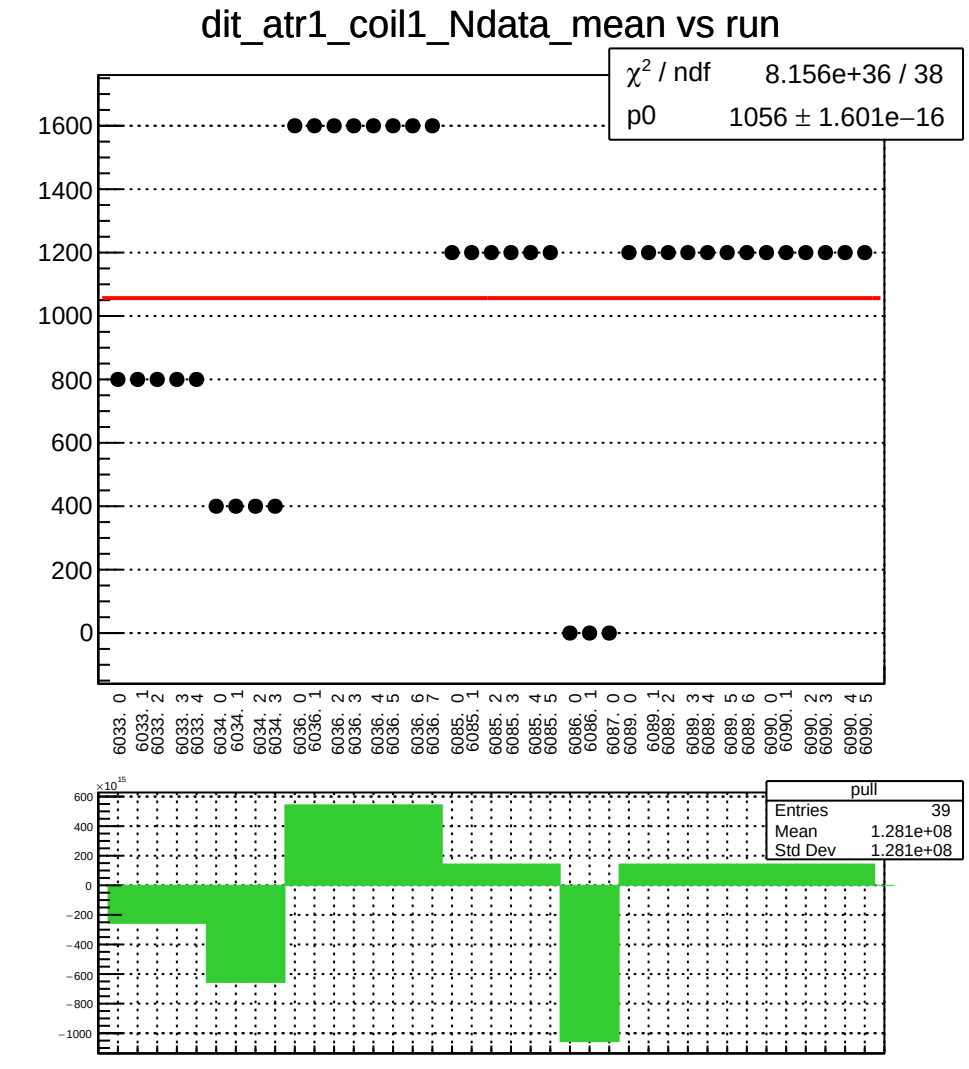

dit_atl2_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

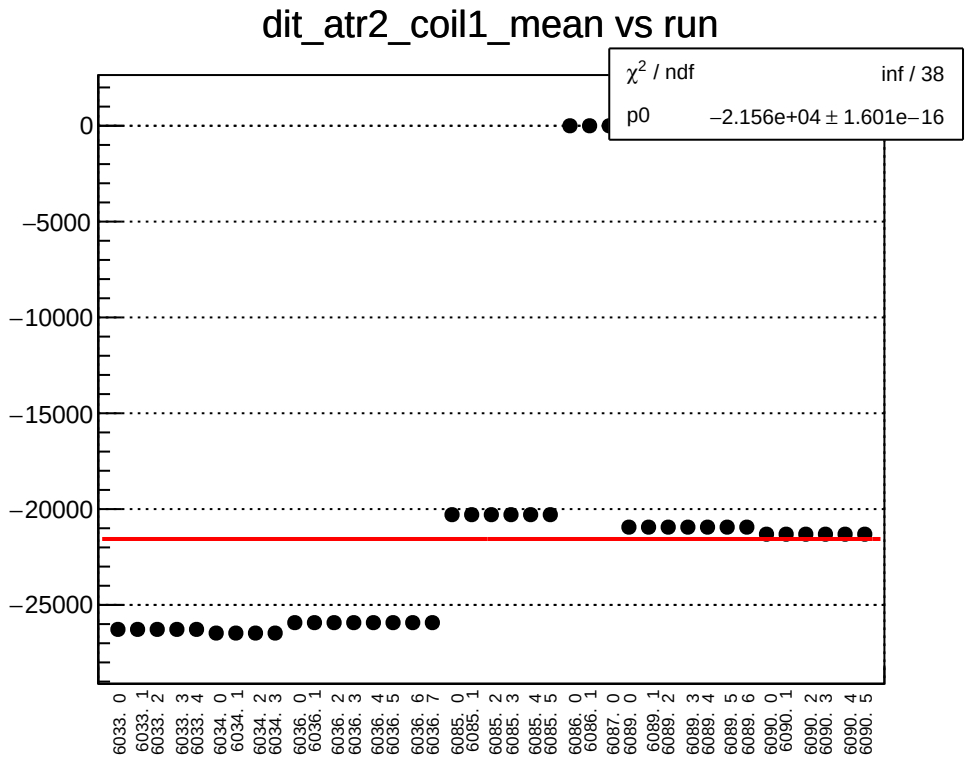

dit_atr1_coil1_mean vs run
χ² / ndf inf / 38
p0 1.701e+04 ± 1.601e−16
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
5
0
−5
−10
−15
pull
Entries 39
Mean −2.102e+09
Std Dev 2.102e+09

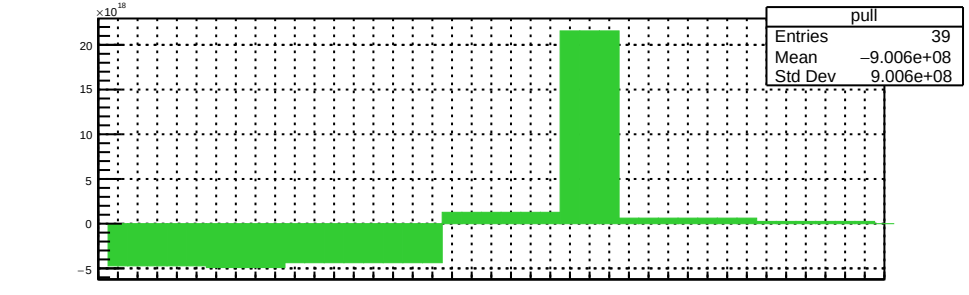

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

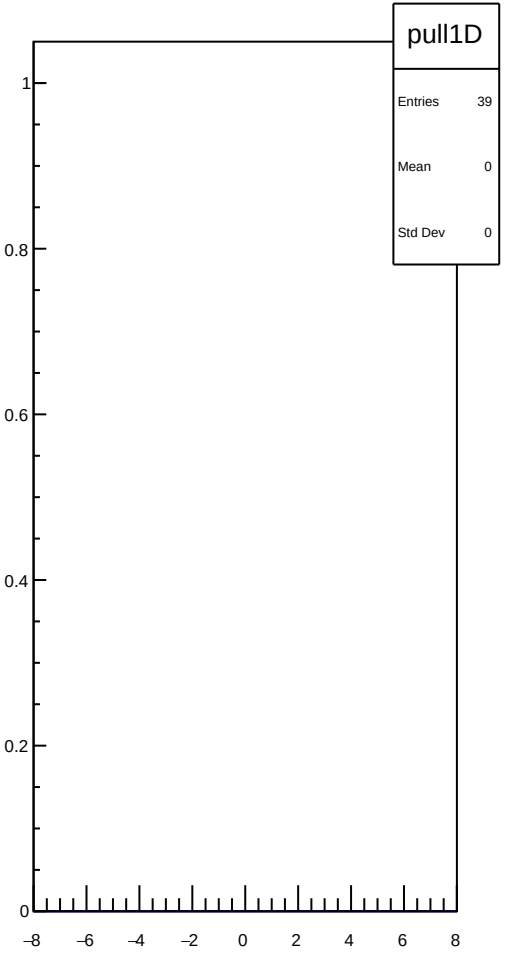

dit_atr1_coil1_err_mean vs run
χ² / ndf 6.272e+35 / 38
p0 354.4 ± 1.601e−16
pull
Entries 39
Mean −5.676e+08
Std Dev 5.676e+08

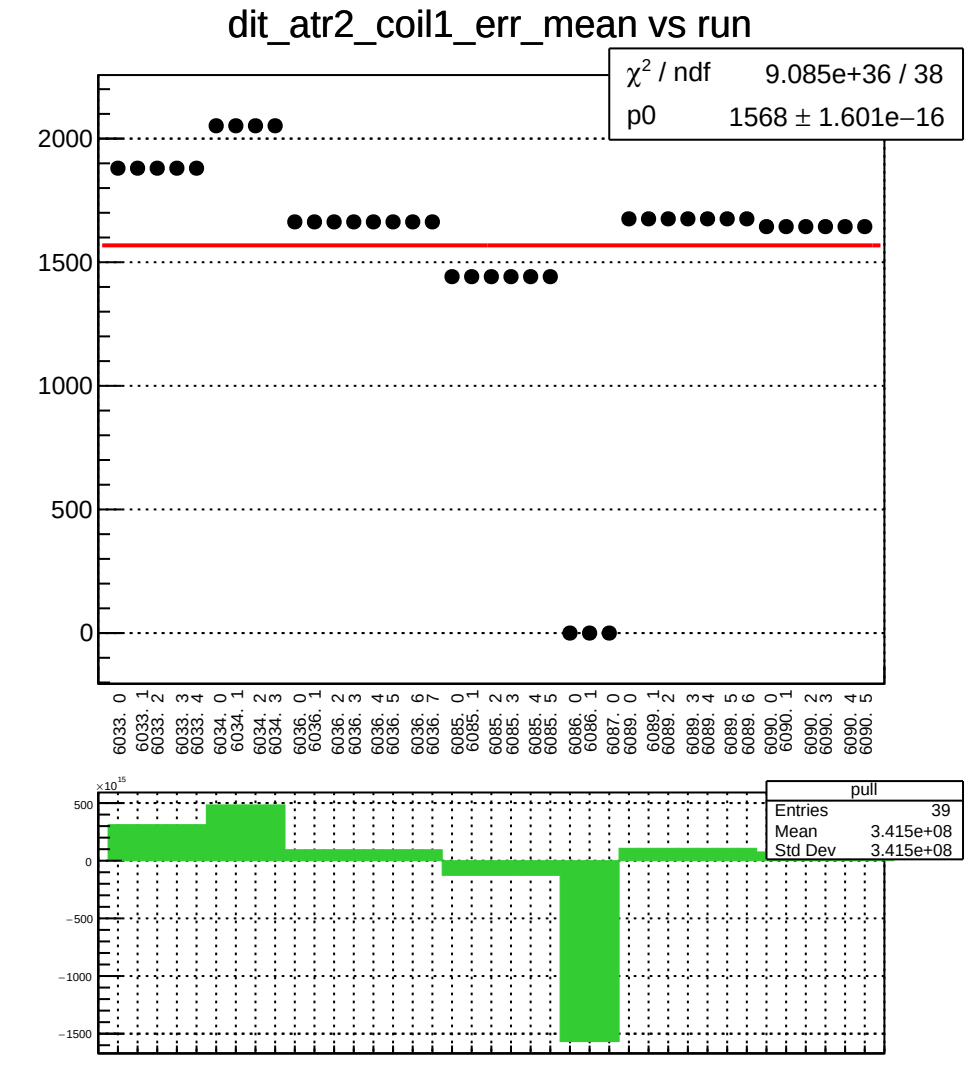

pull1D
Entries 39
Mean 0
Std Dev 0

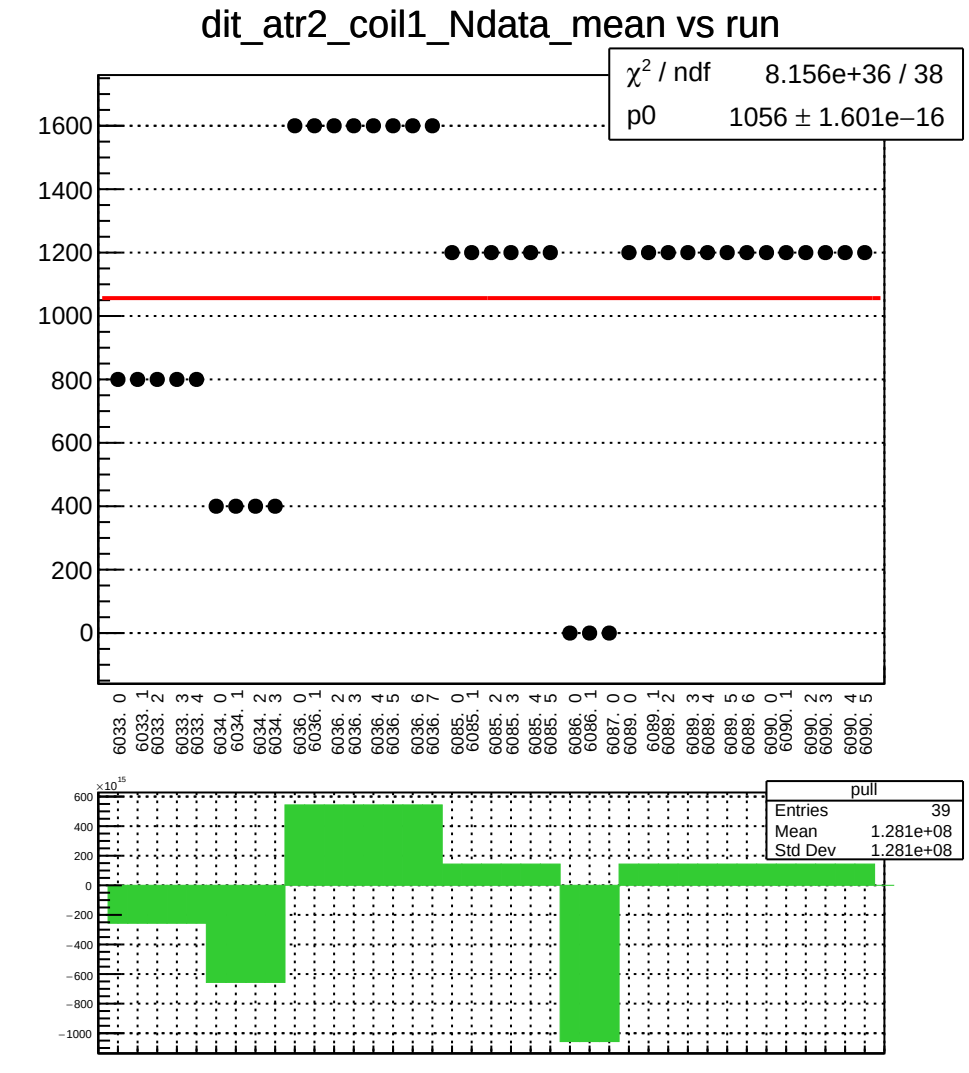

dit_atr1_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

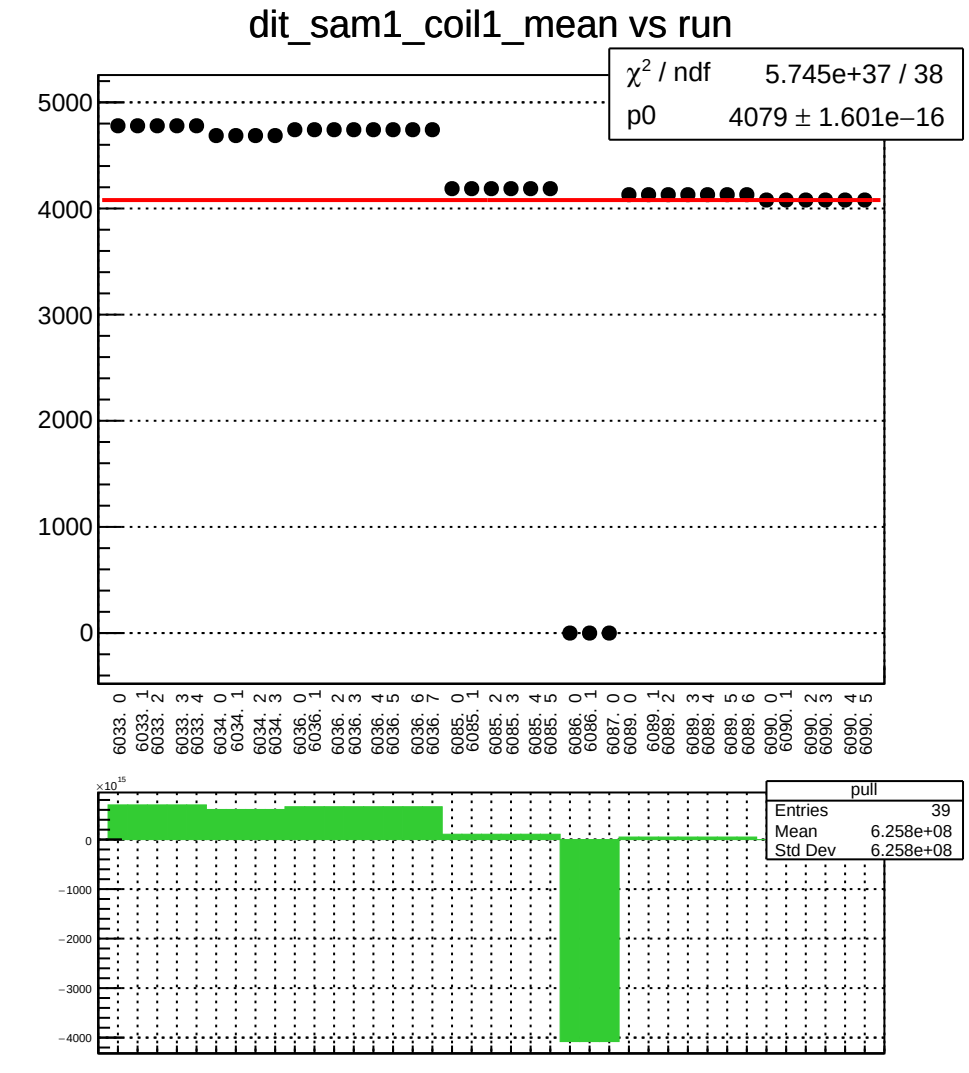

dit_atr2_coil1_mean vs run
χ² / ndf inf / 38
p0 −2.156e+04 ± 1.601e−16
0
−5000
−10000
−15000
−20000
−25000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

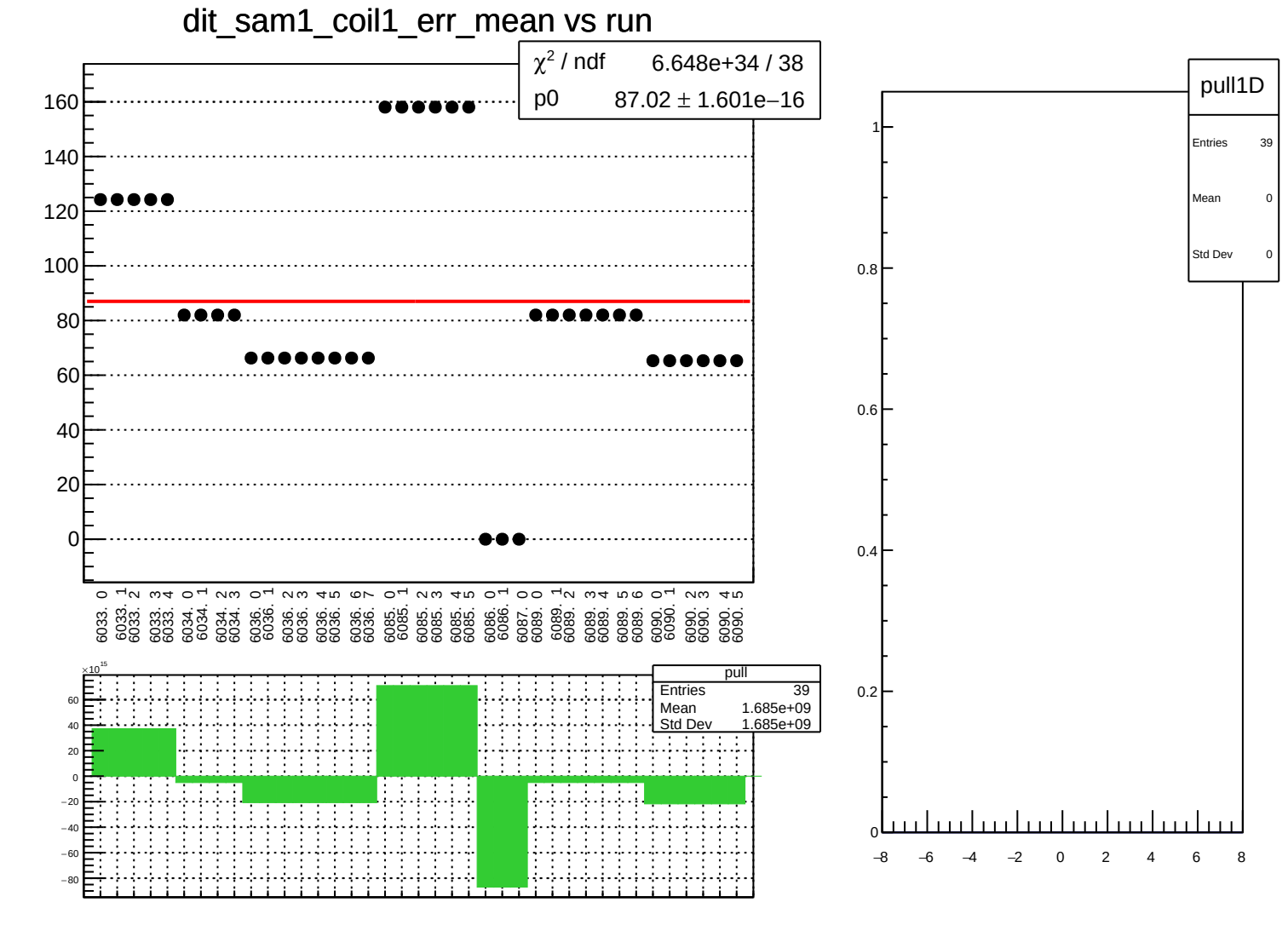

×10¹⁸
20
15
10
5
0
−5
pull
Entries 39
Mean −9.006e+08
Std Dev 9.006e+08

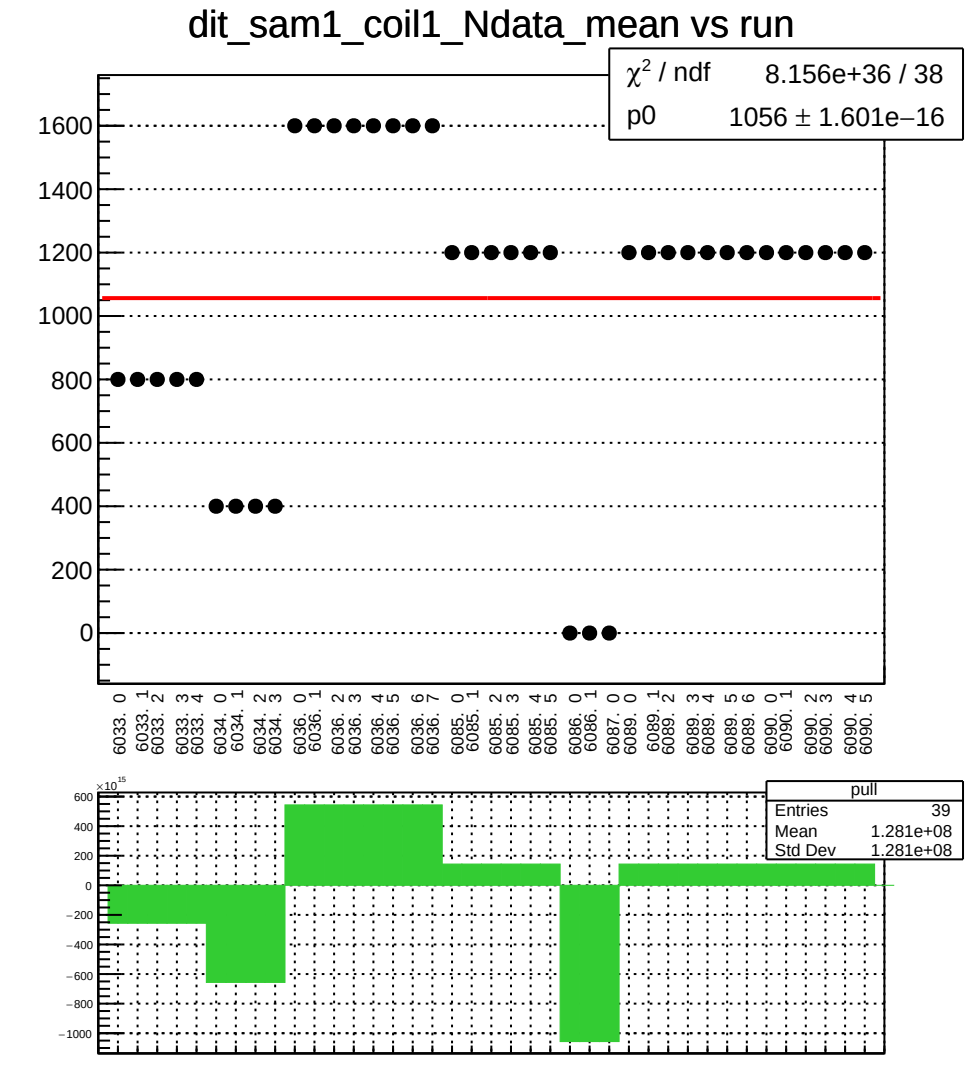

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

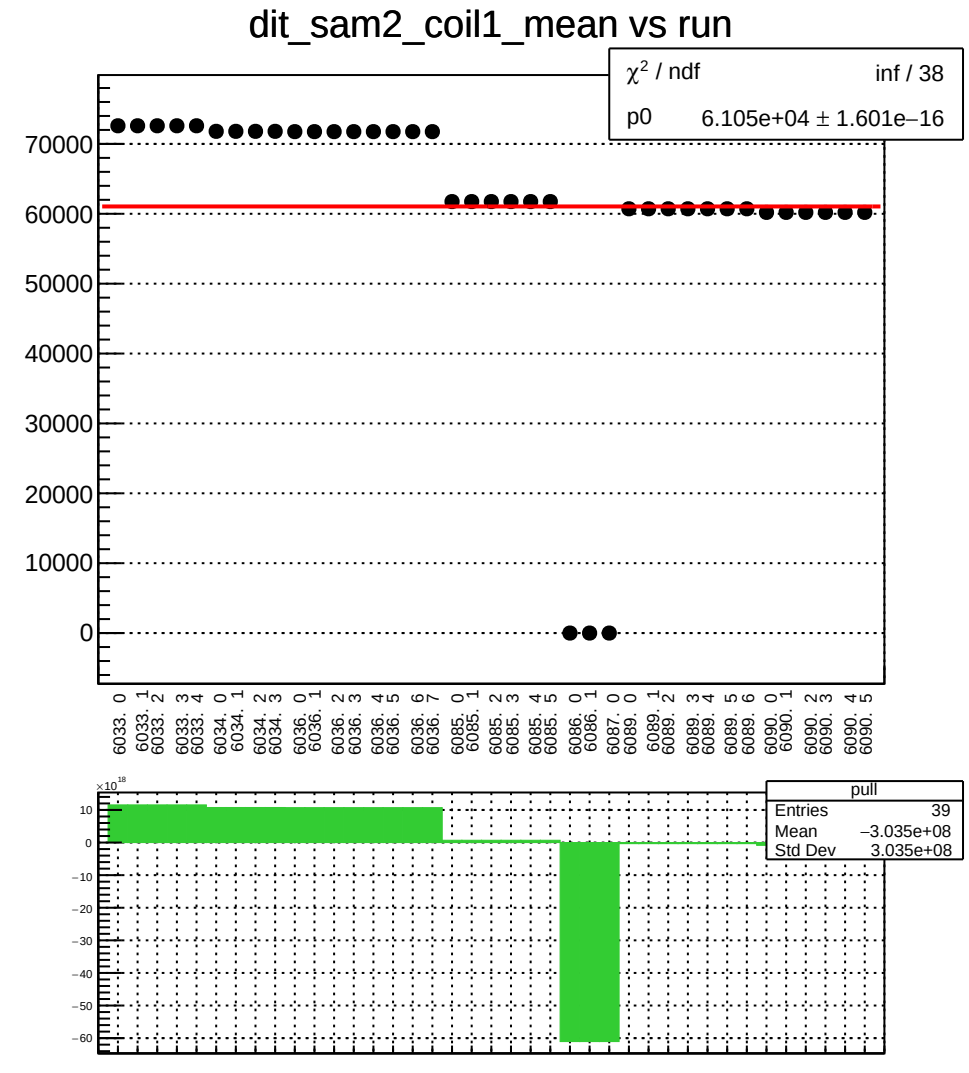

dit_atr2_coil1_err_mean vs run
χ² / ndf 9.085e+36 / 38
p0 1568 ± 1.601e−16
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
500
0
−500
−1000
−1500
pull
Entries 39
Mean 3.415e+08
Std Dev 3.415e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

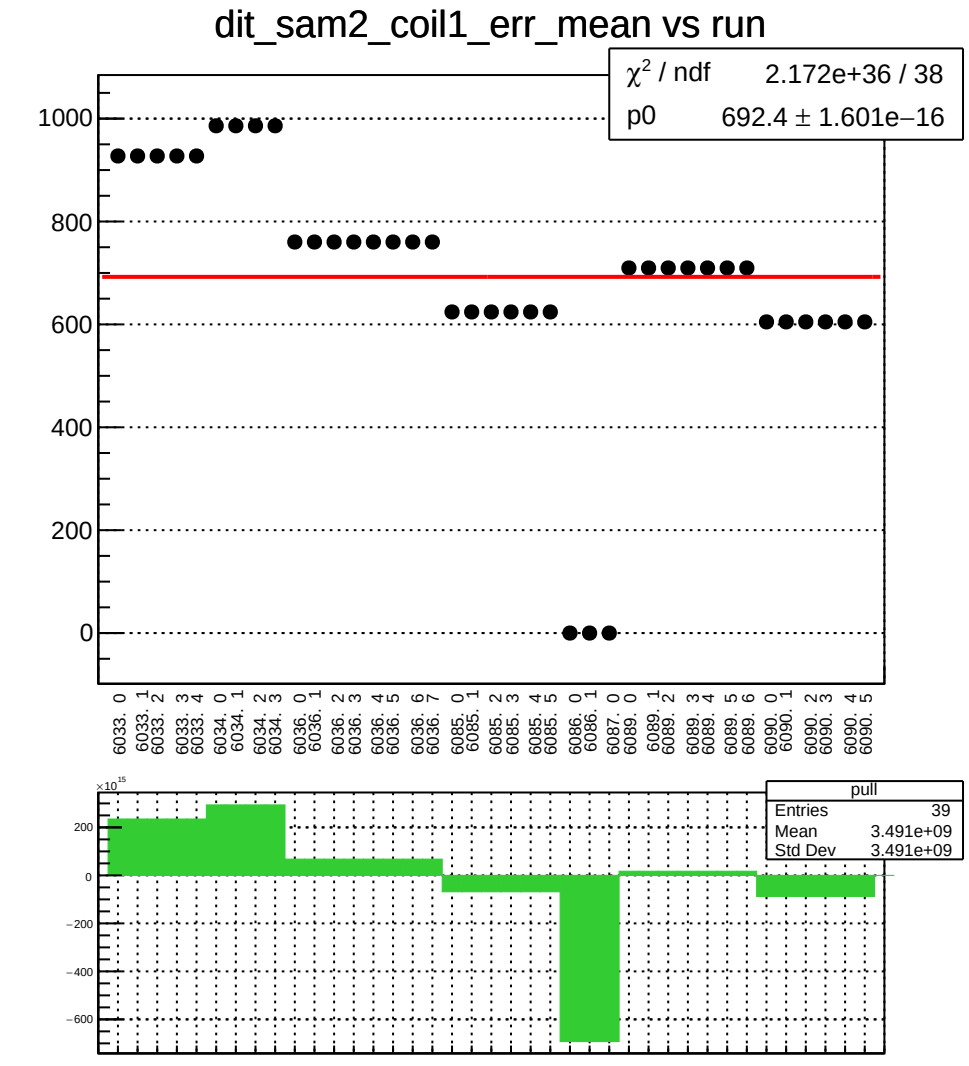

dit_atr2_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

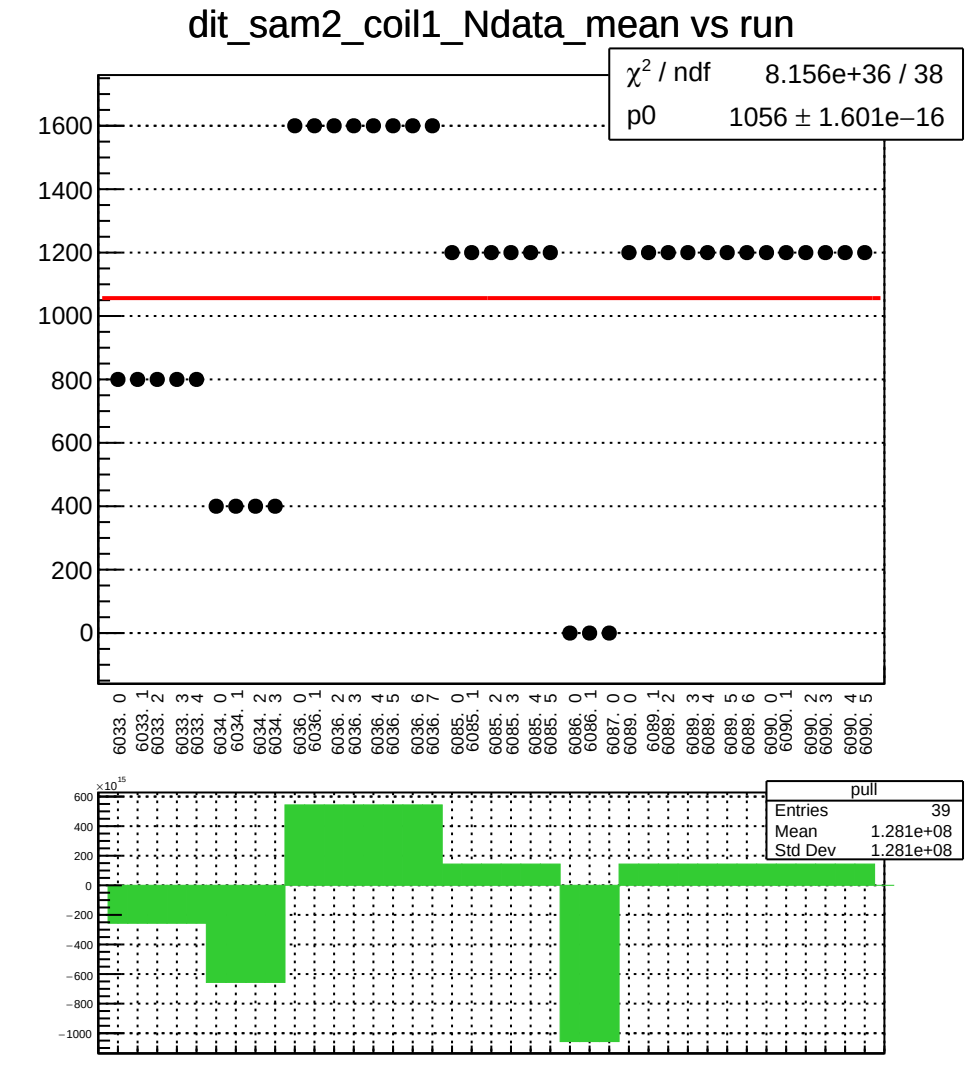

dit_sam1_coil1_mean vs run
χ² / ndf 5.745e+37 / 38
p0 4079 ± 1.601e−16
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 6.258e+08
Std Dev 6.258e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

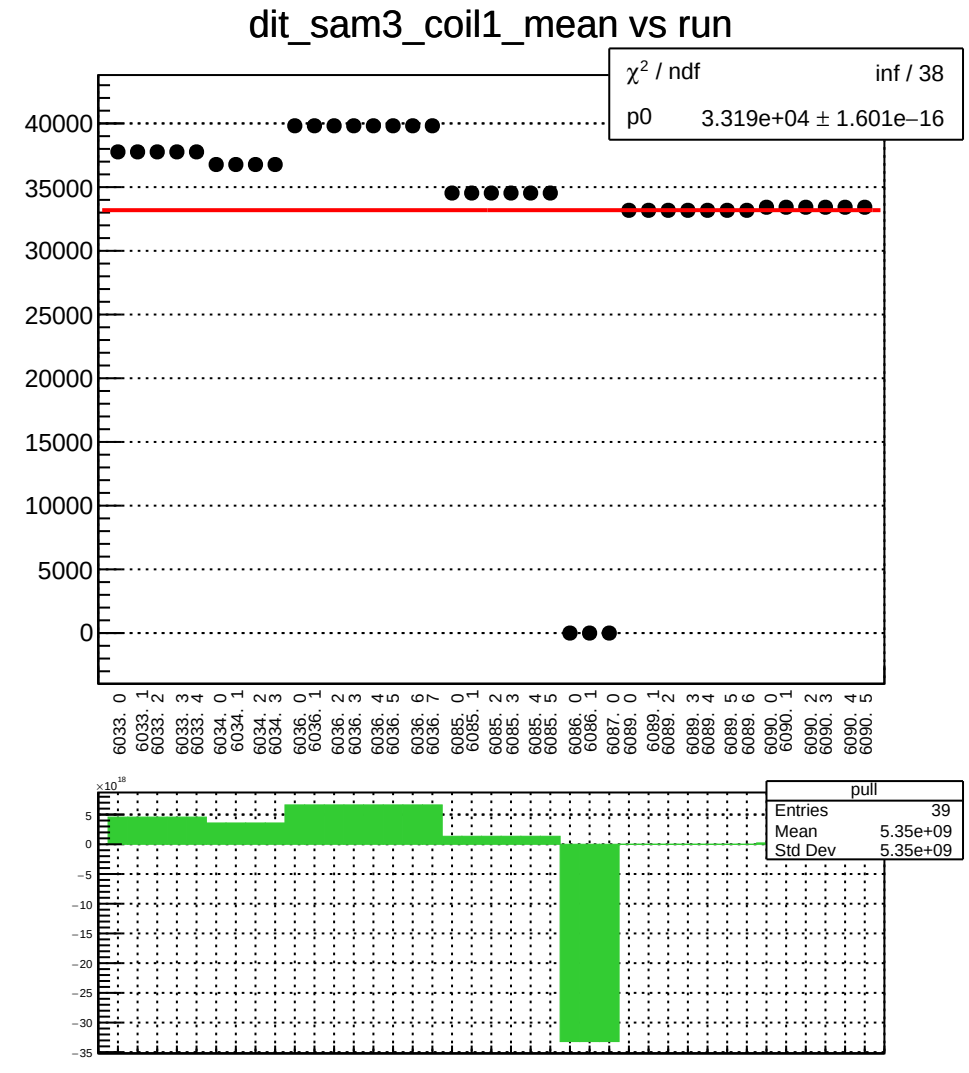

dit_sam1_coil1_err_mean vs run
χ² / ndf 6.648e+34 / 38
p0 87.02 ± 1.601e−16
160
140
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
60
40
20
0
−20
−40
−60
−80
pull
Entries 39
Mean 1.685e+09
Std Dev 1.685e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

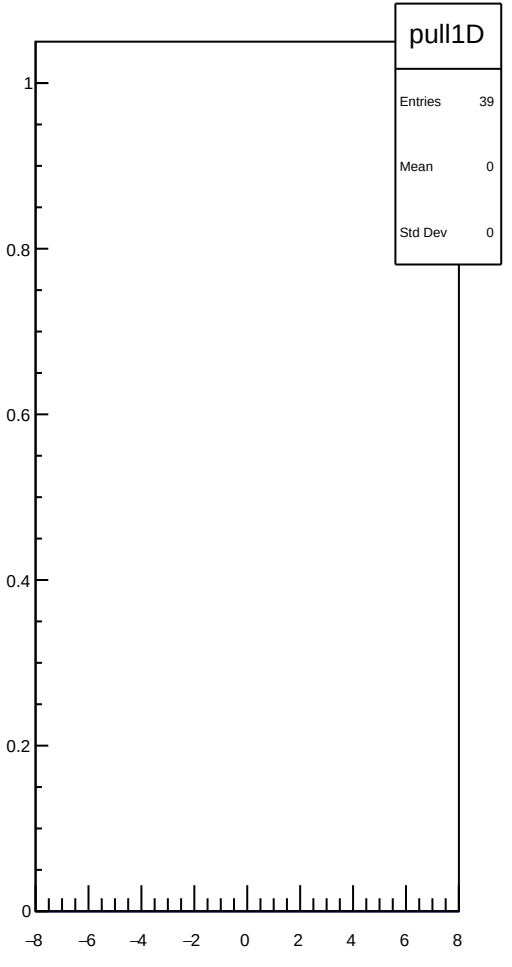

dit_sam1_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

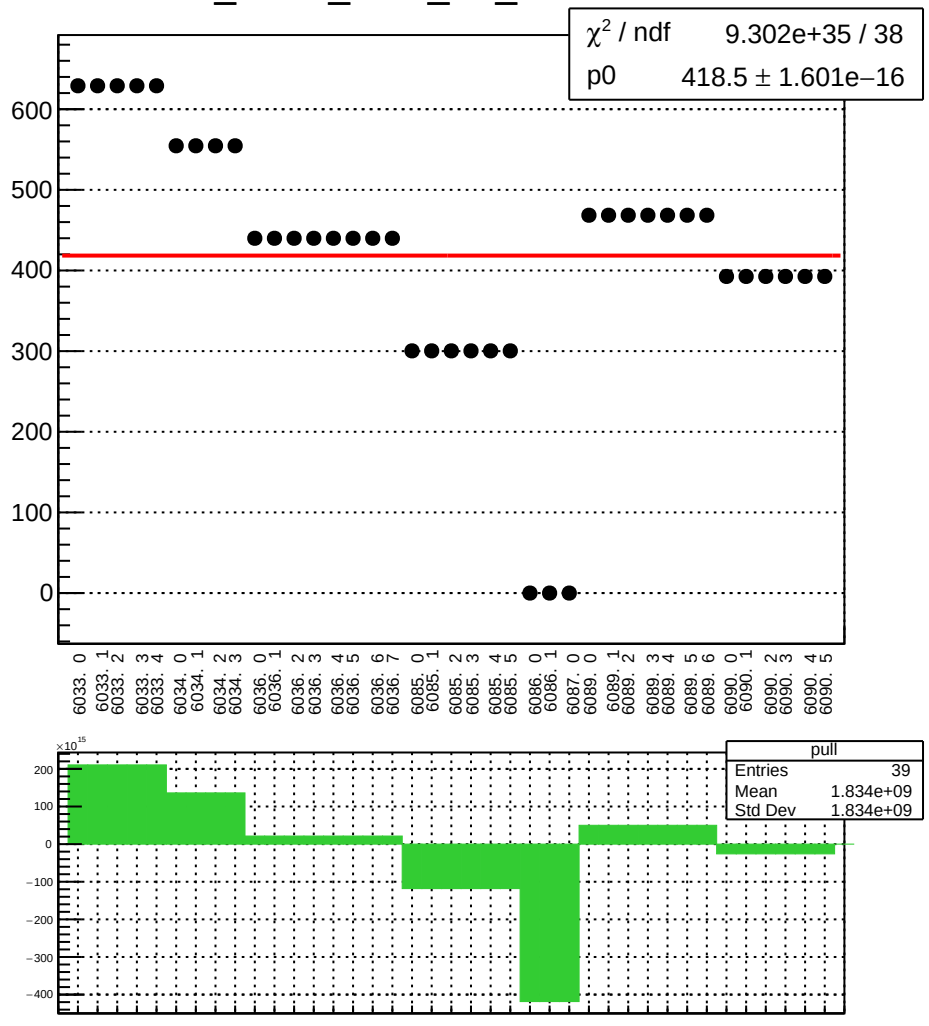

dit_sam2_coil1_mean vs run
χ² / ndf inf / 38
p0 6.105e+04 ± 1.601e−16
70000
60000
50000
40000
30000
20000
10000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
10
0
−10
−20
−30
−40
−50
−60
pull
Entries 39
Mean −3.035e+08
Std Dev 3.035e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

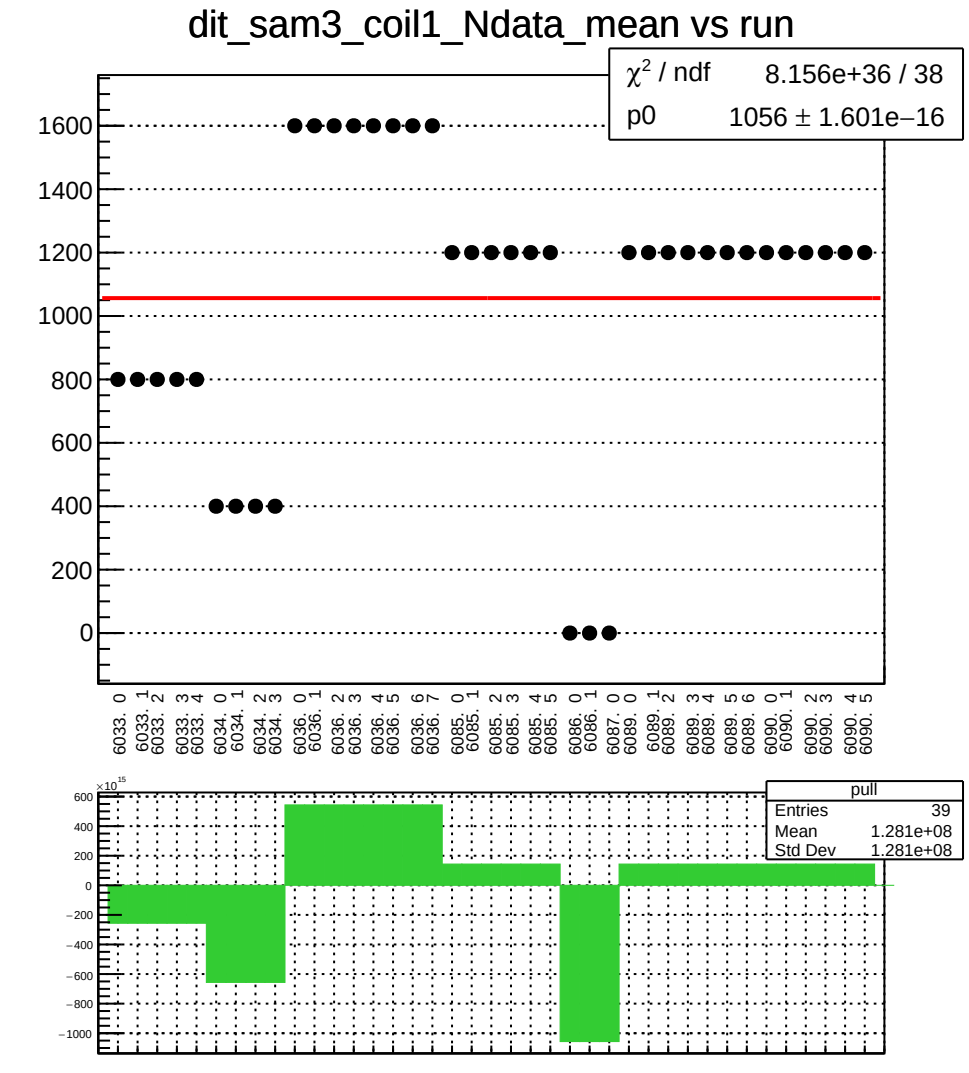

dit_sam2_coil1_err_mean vs run
χ² / ndf 2.172e+36 / 38
p0 692.4 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
pull
Entries 39
Mean 3.491e+09
Std Dev 3.491e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

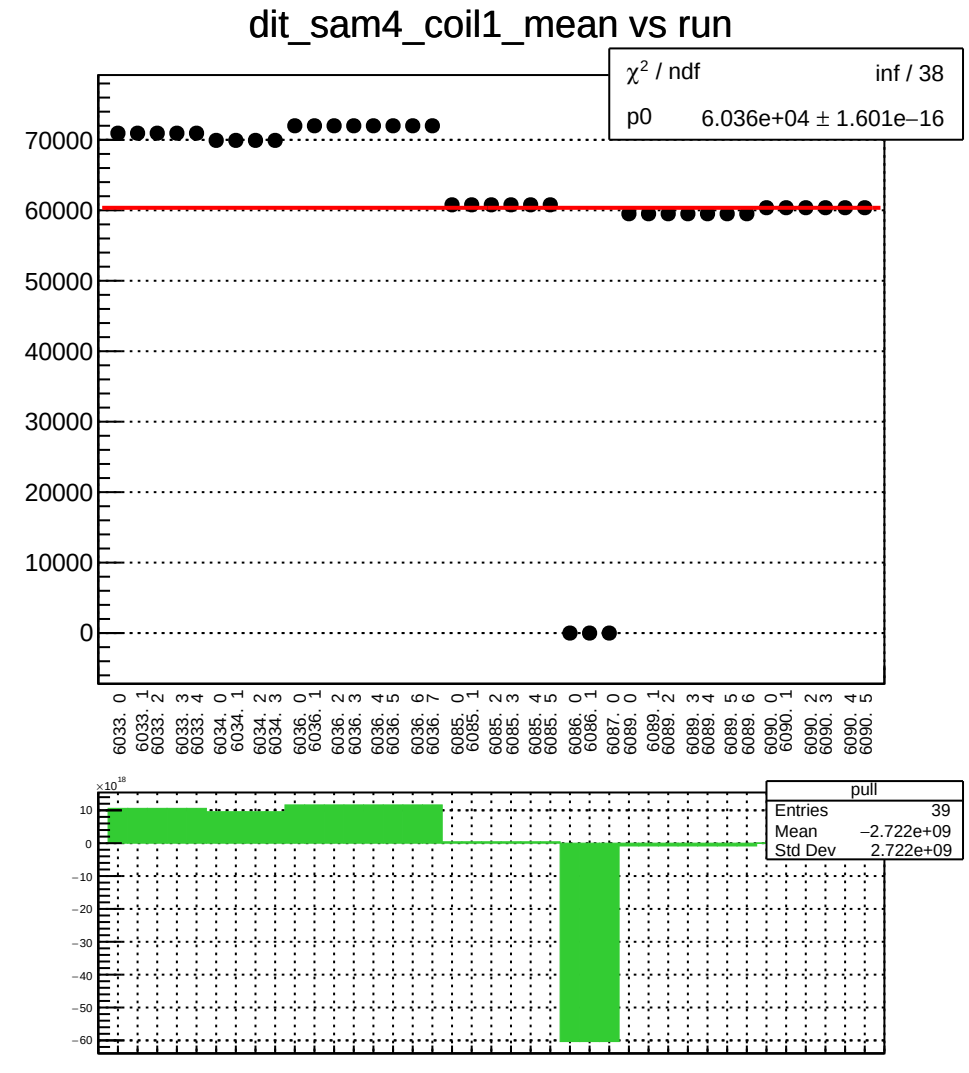

dit_sam2_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

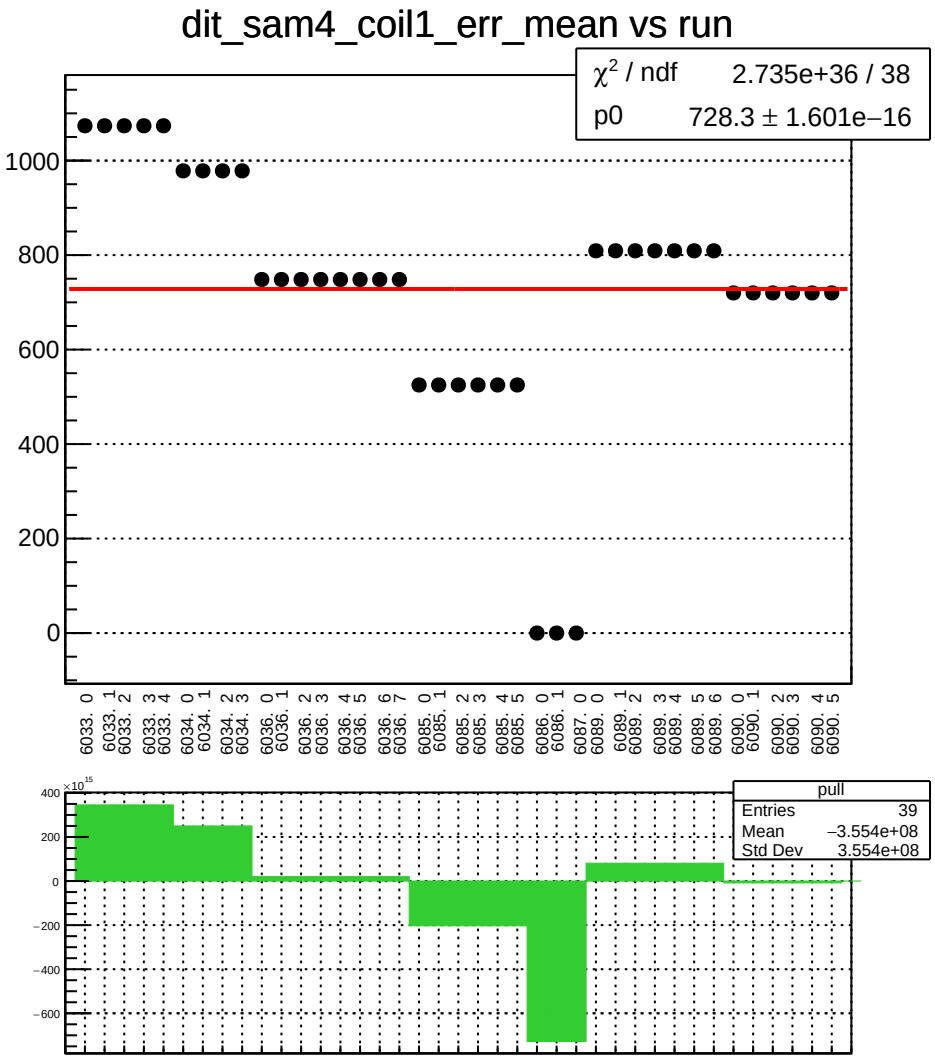

dit_sam3_coil1_mean vs run
χ² / ndf inf / 38
p0 3.319e+04 ± 1.601e−16
40000
35000
30000
25000
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
5
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 39
Mean 5.35e+09
Std Dev 5.35e+09

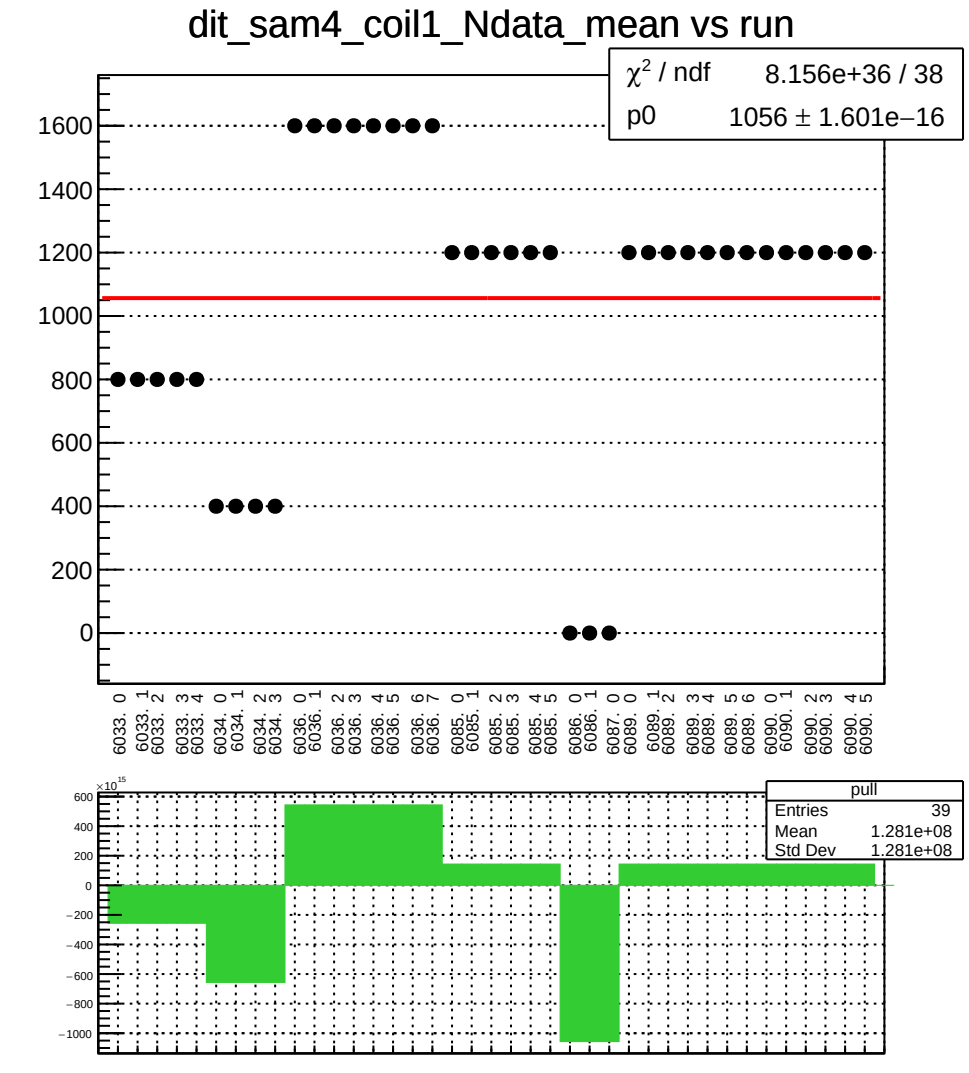

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

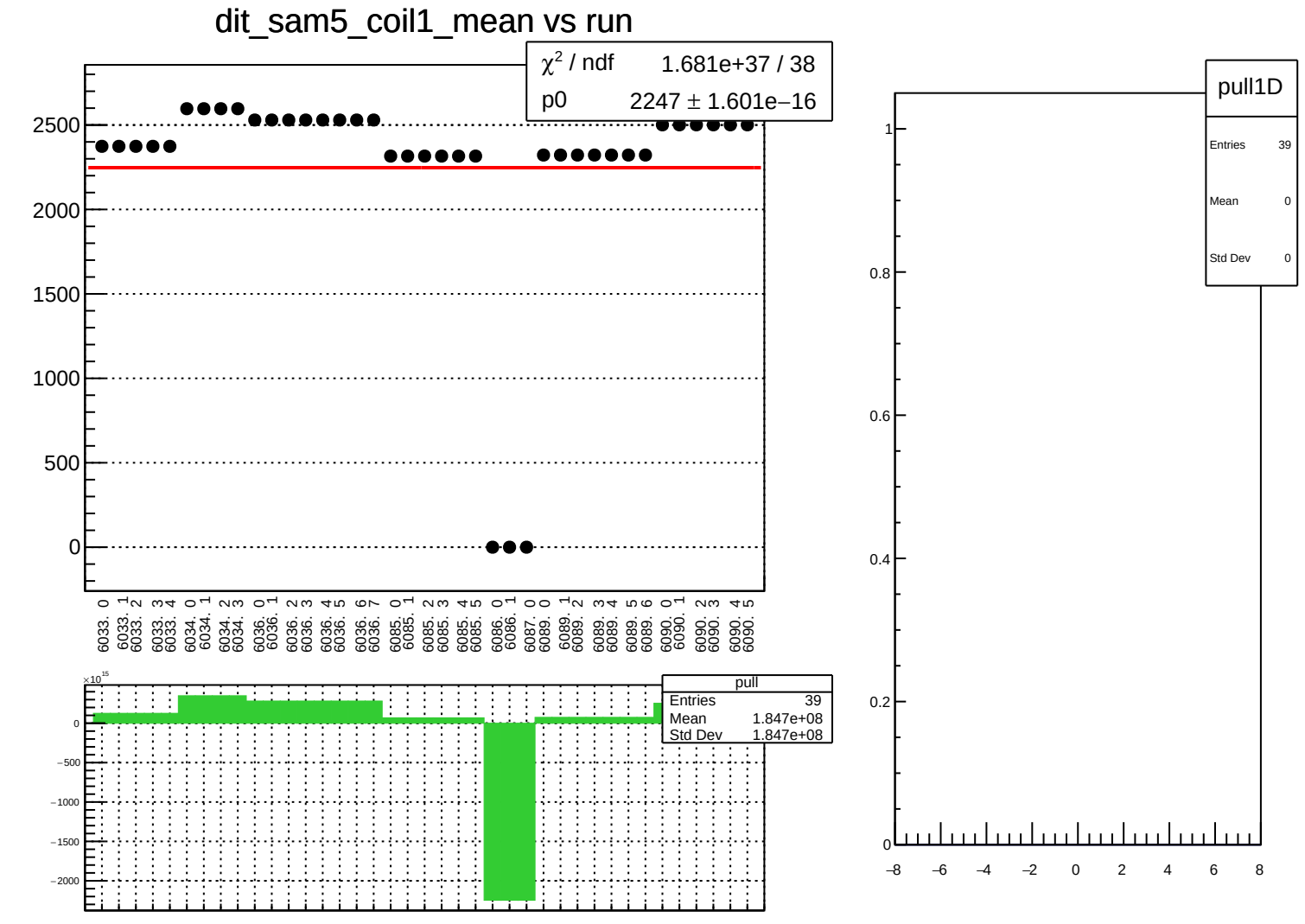

dit_sam3_coil1_err_mean vs run
χ² / ndf 9.302e+35 / 38
p0 418.5 ± 1.601e−16
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
100
0
−100
−200
−300
−400
pull
Entries 39
Mean 1.834e+09
Std Dev 1.834e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

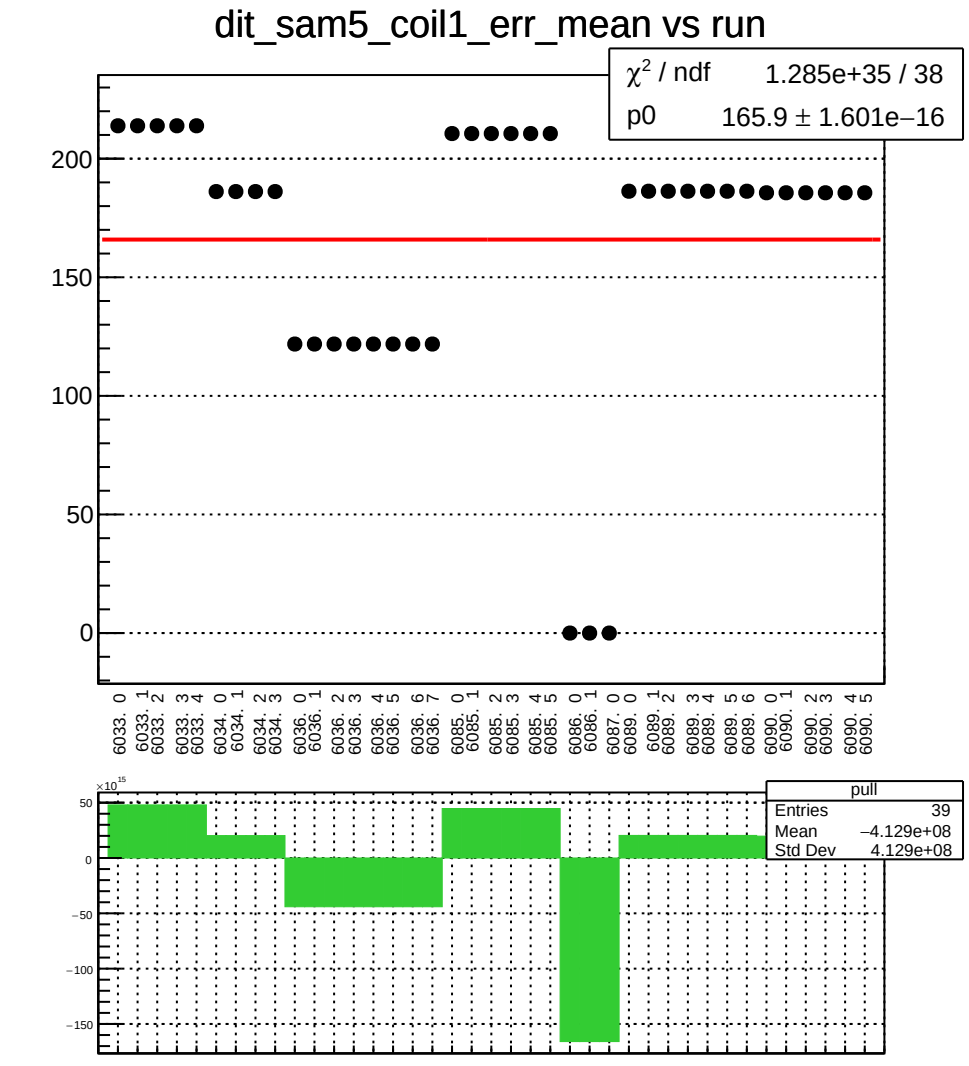

dit_sam3_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

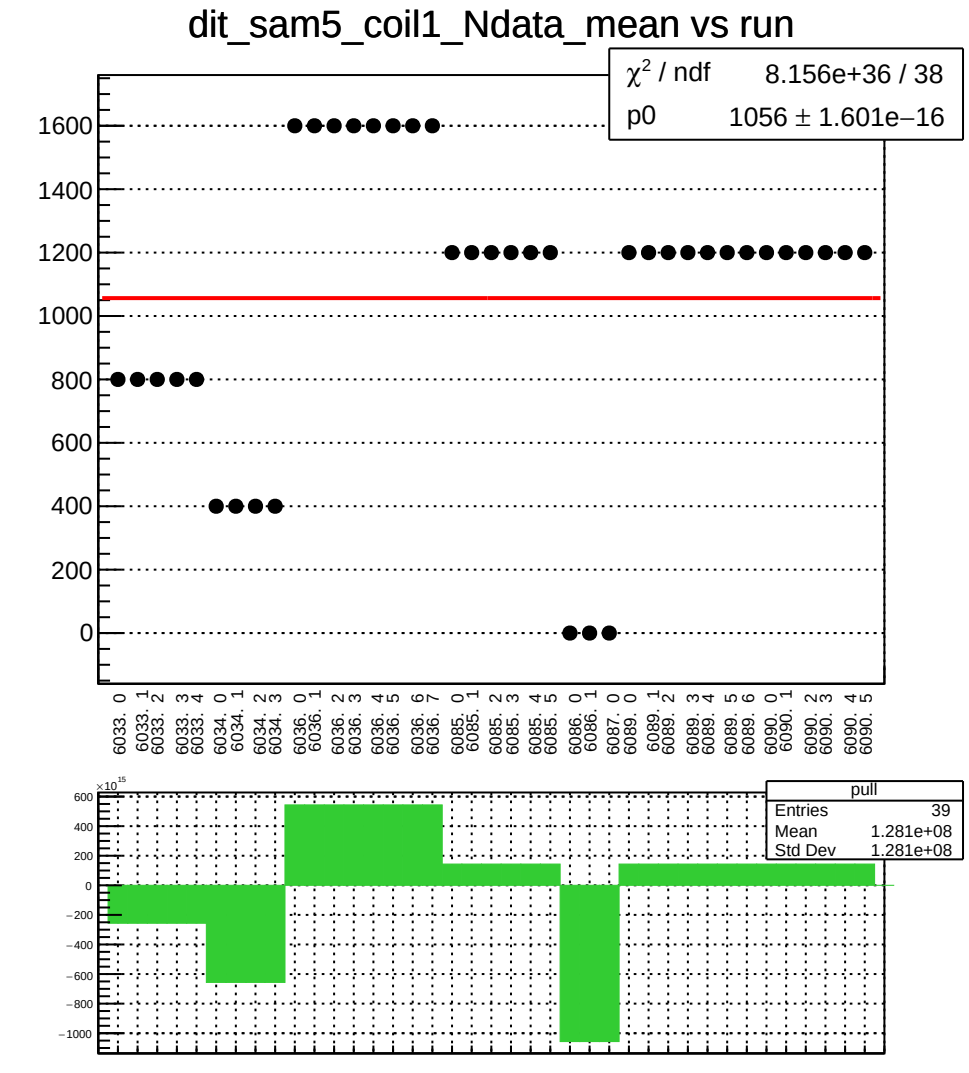

dit_sam4_coil1_mean vs run
χ² / ndf inf / 38
p0 6.036e+04 ± 1.601e−16
70000
60000
50000
40000
30000
20000
10000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
10
0
−10
−20
−30
−40
−50
−60
pull
Entries 39
Mean −2.722e+09
Std Dev 2.722e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

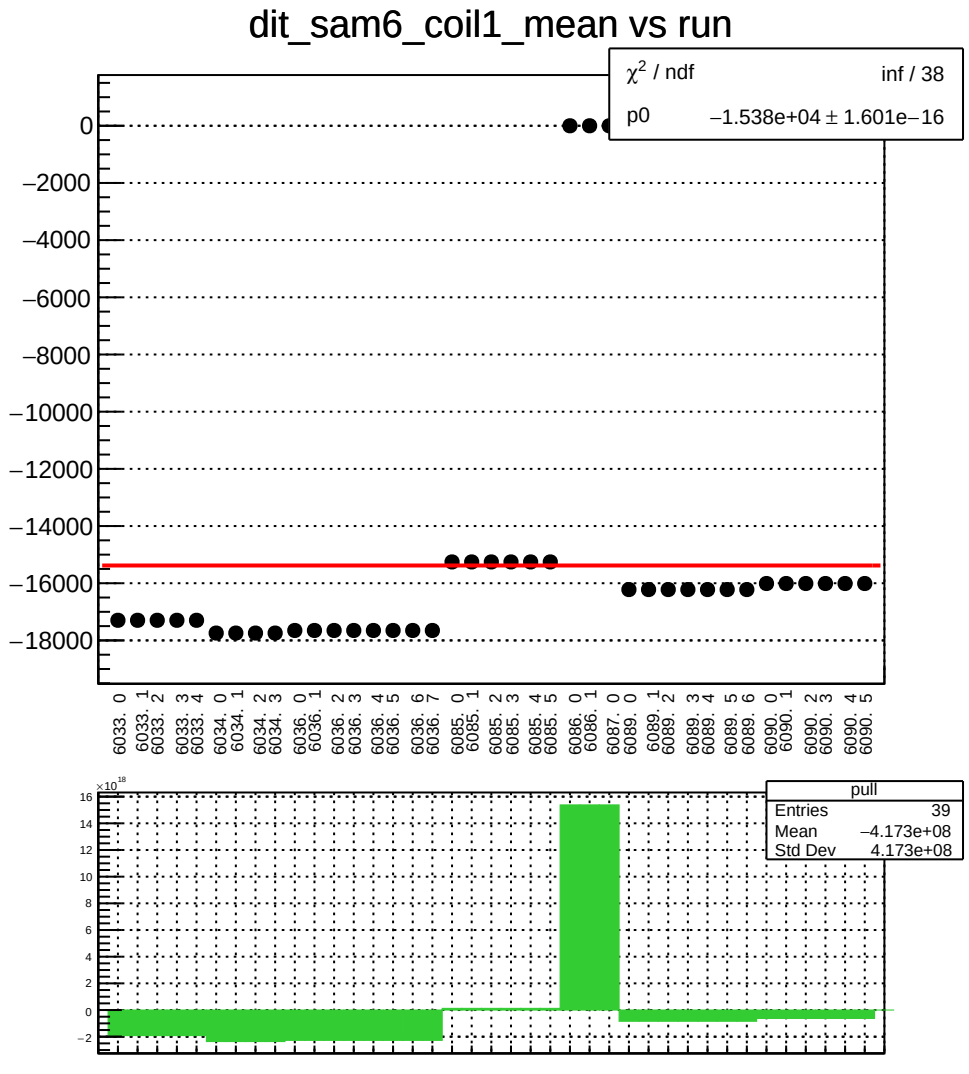

dit_sam4_coil1_err_mean vs run
χ² / ndf 2.735e+36 / 38
p0 728.3 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 39
Mean −3.554e+08
Std Dev 3.554e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

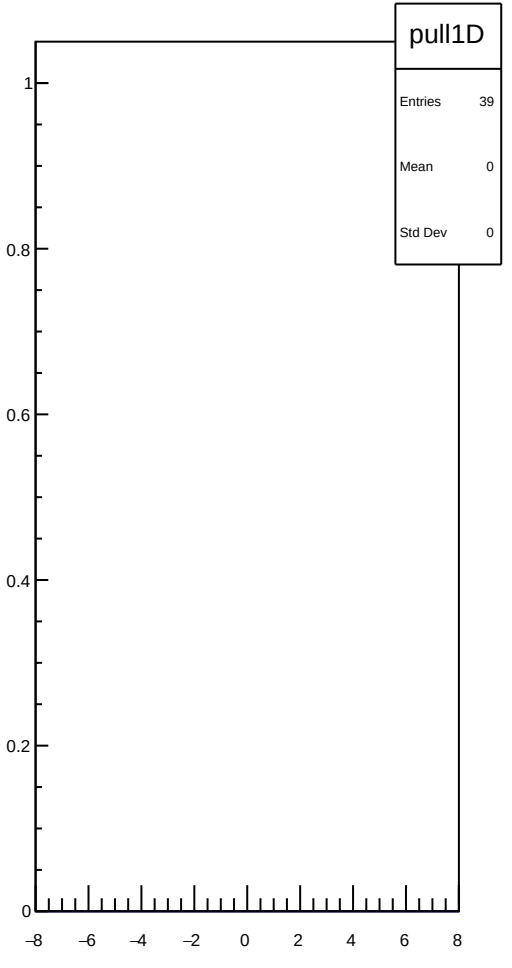

dit_sam4_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

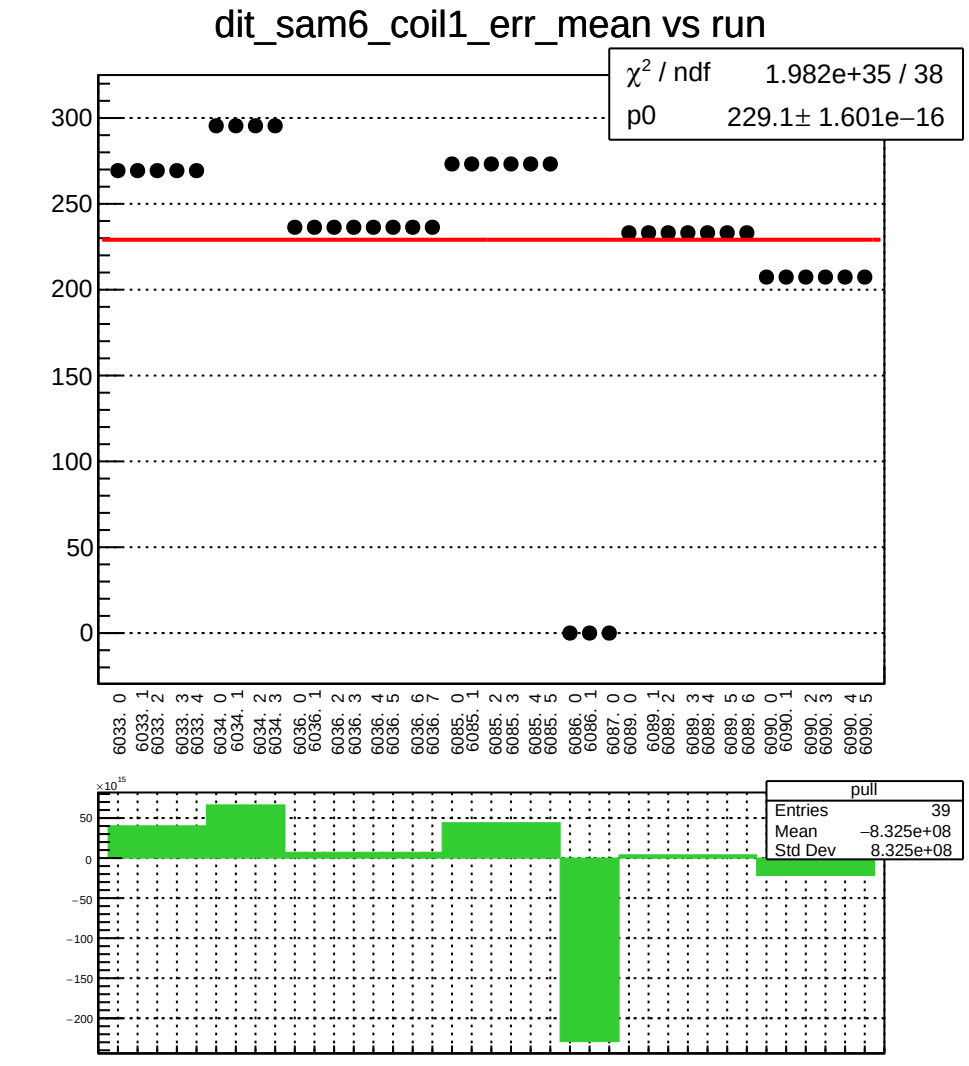

dit_sam5_coil1_mean vs run
χ² / ndf 1.681e+37 / 38
p0 2247 ± 1.601e−16
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−500
−1000
−1500
−2000
pull
Entries 39
Mean 1.847e+08
Std Dev 1.847e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

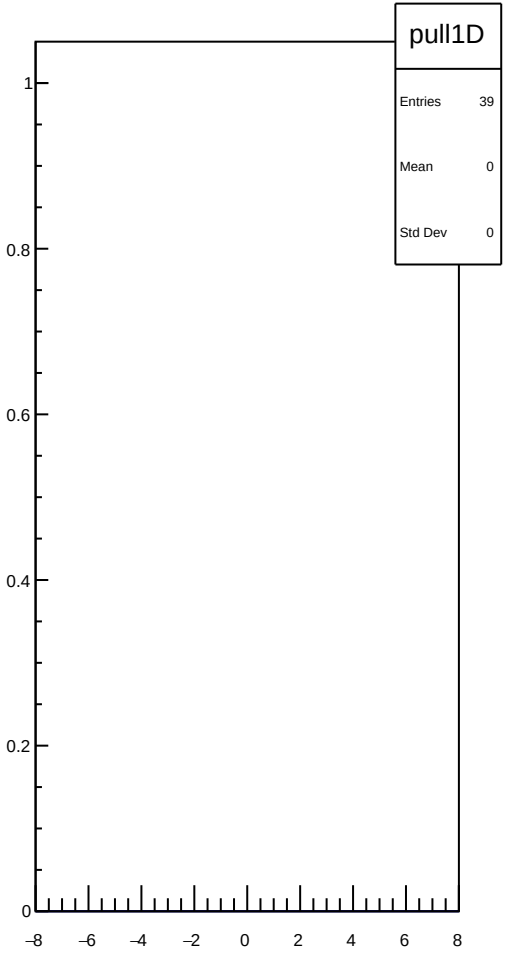

dit_sam5_coil1_err_mean vs run
χ² / ndf 1.285e+35 / 38
p0 165.9 ± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
pull
Entries 39
Mean −4.129e+08
Std Dev 4.129e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

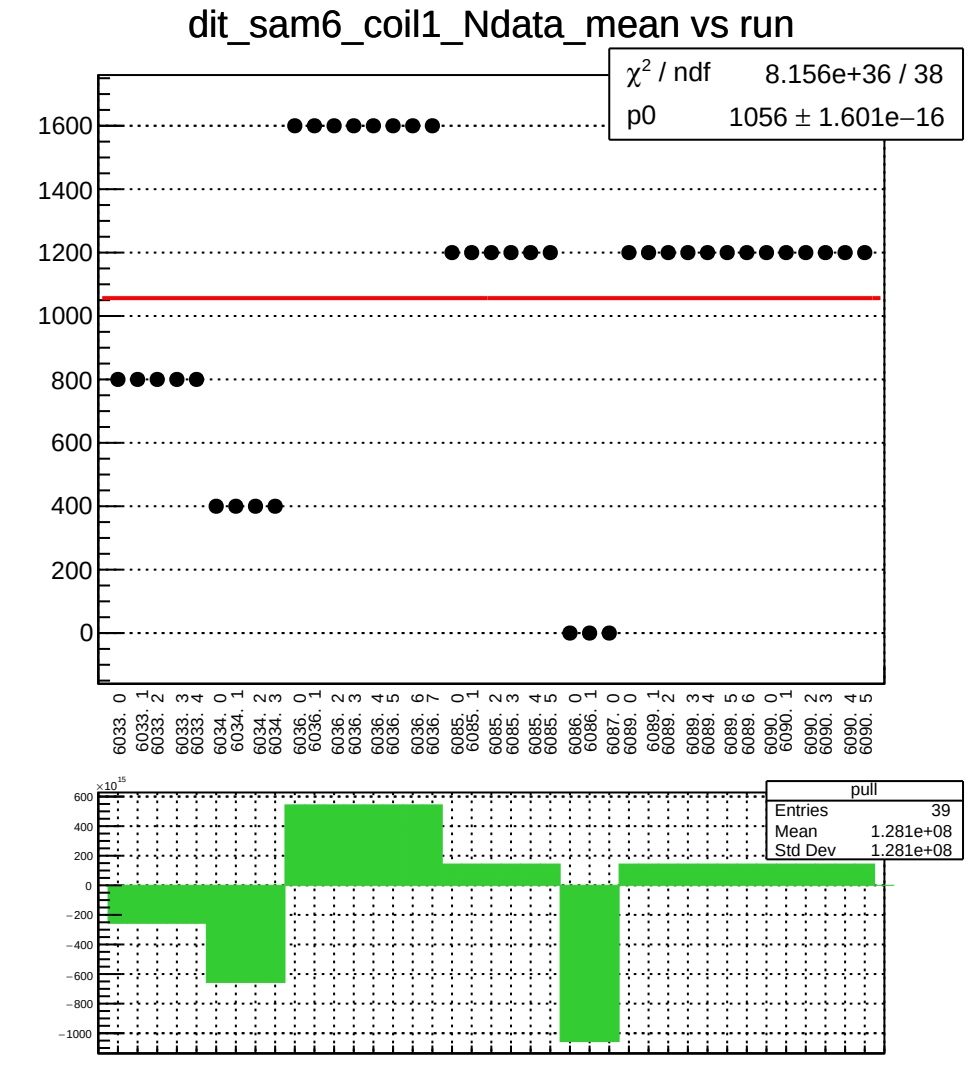

dit_sam5_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

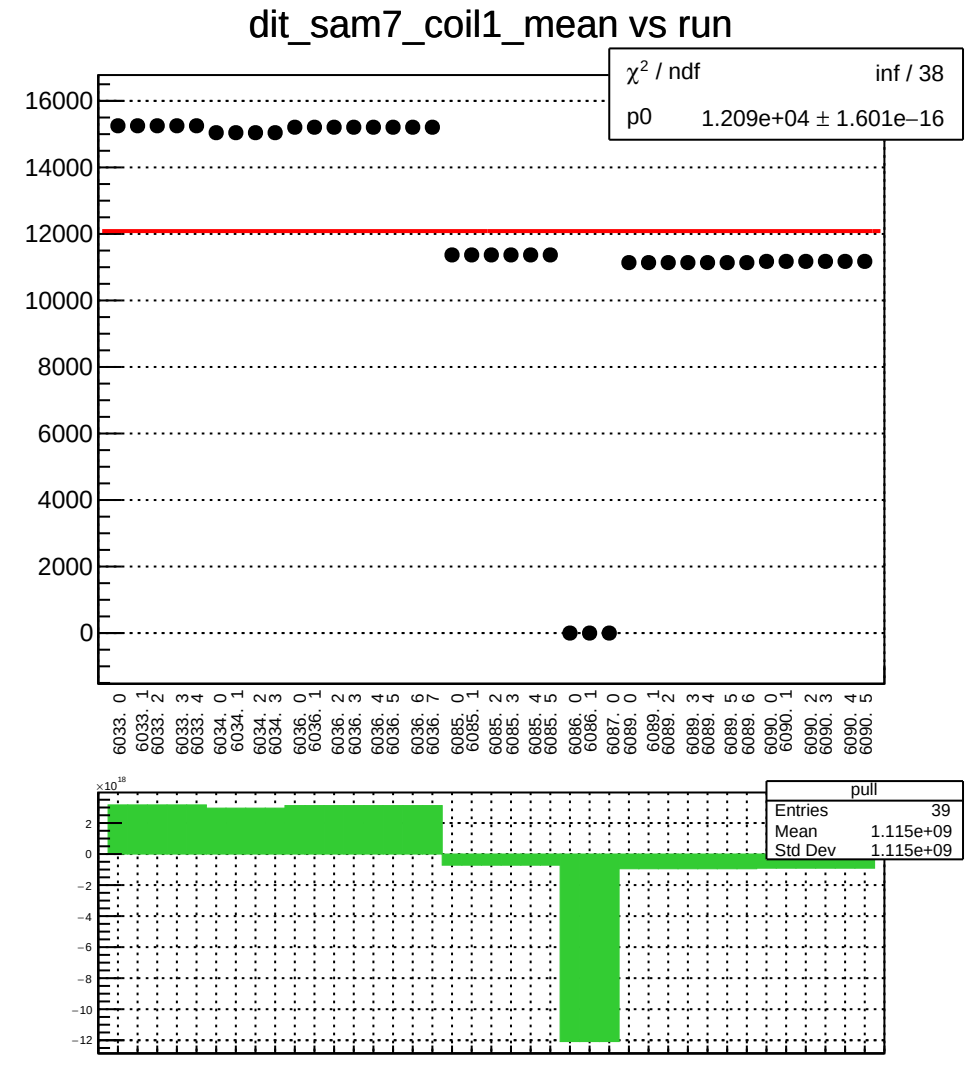

dit_sam6_coil1_mean vs run
χ² / ndf inf / 38
p0 −1.538e+04 ± 1.601e−16
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
−16000
−18000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
16
14
12
10
8
6
4
2
0
−2
pull
Entries 39
Mean −4.173e+08
Std Dev 4.173e+08

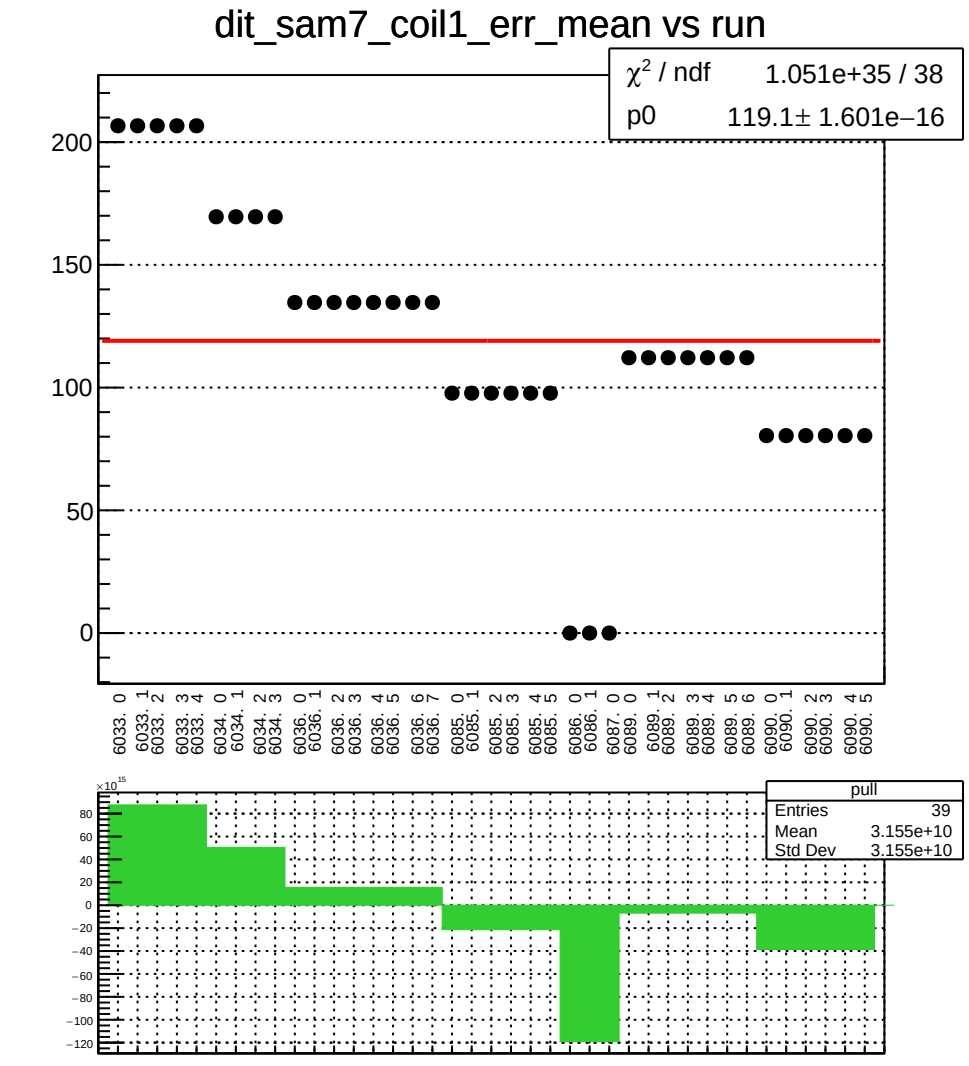

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

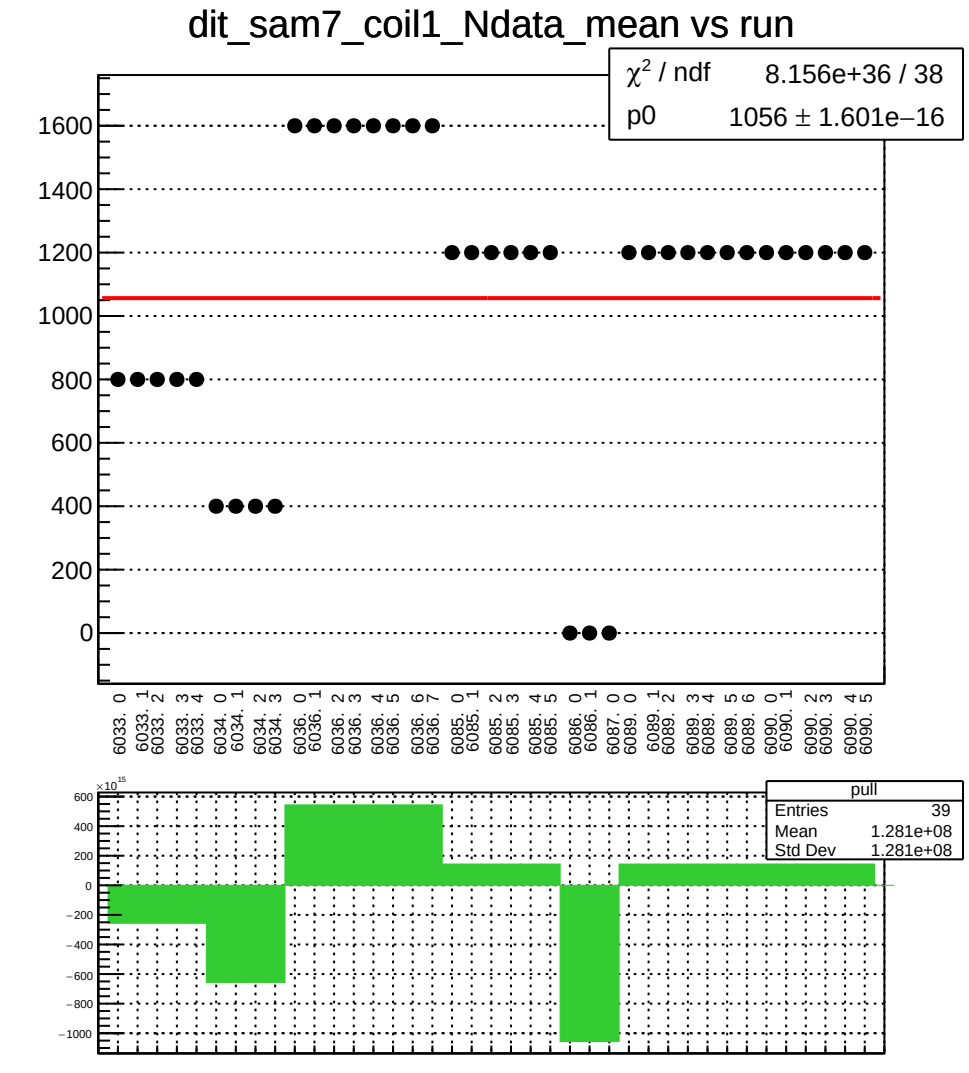

dit_sam6_coil1_err_mean vs run
χ² / ndf 1.982e+35 / 38
p0 229.1± 1.601e−16
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
−200
pull
Entries 39
Mean −8.325e+08
Std Dev 8.325e+08

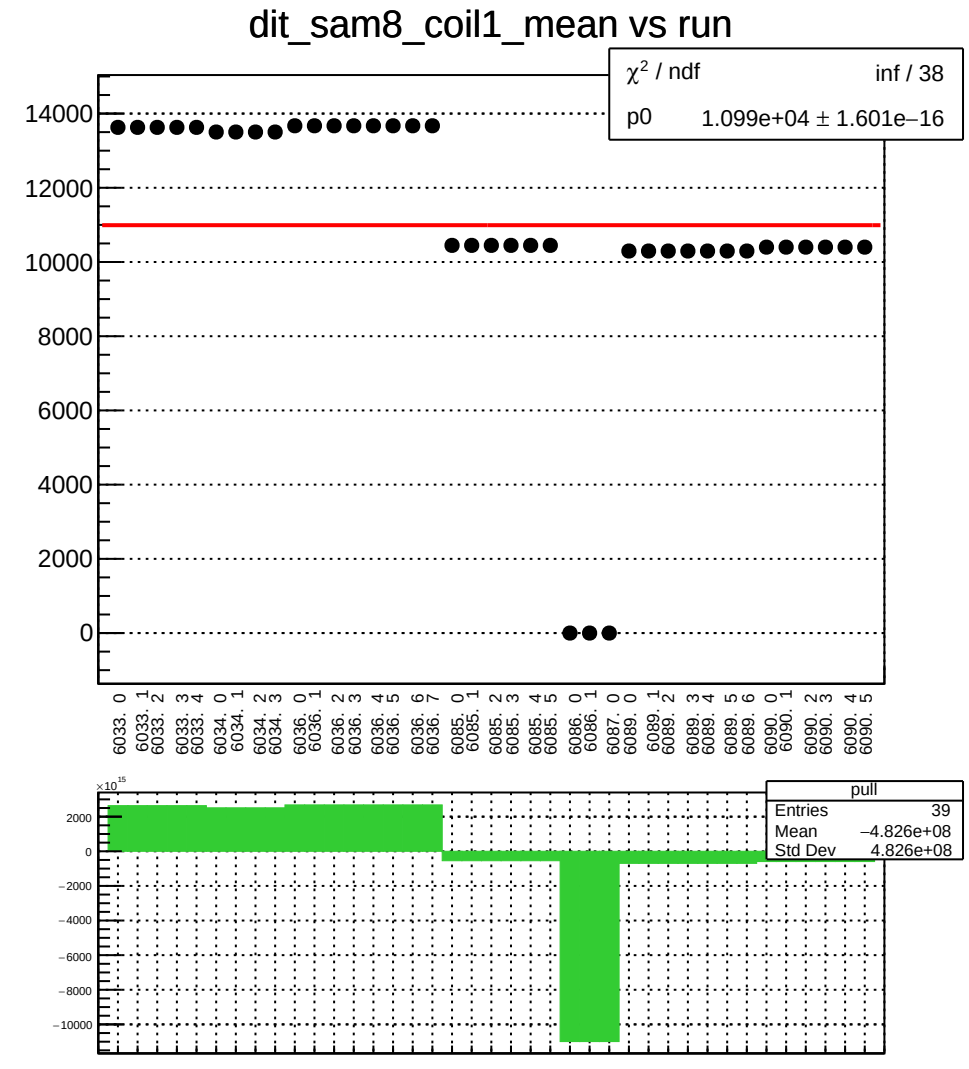

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

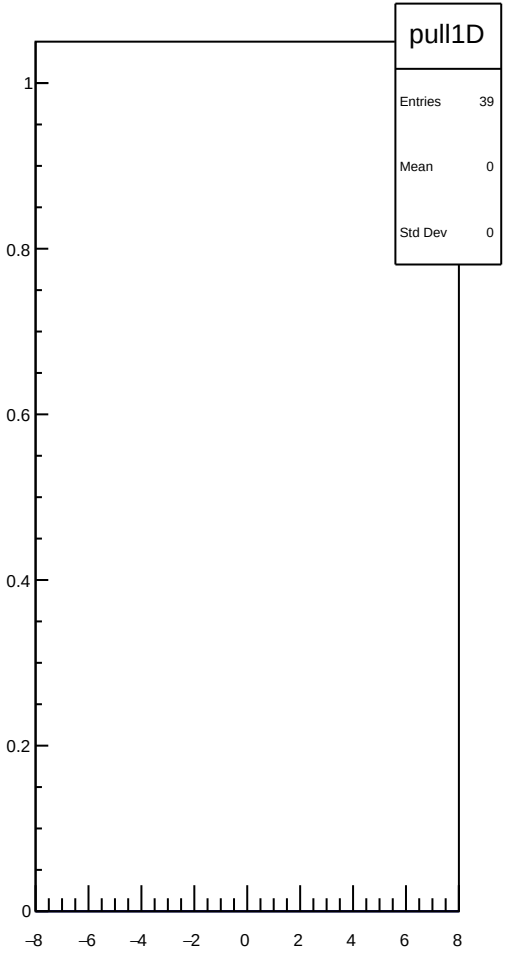

dit_sam6_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

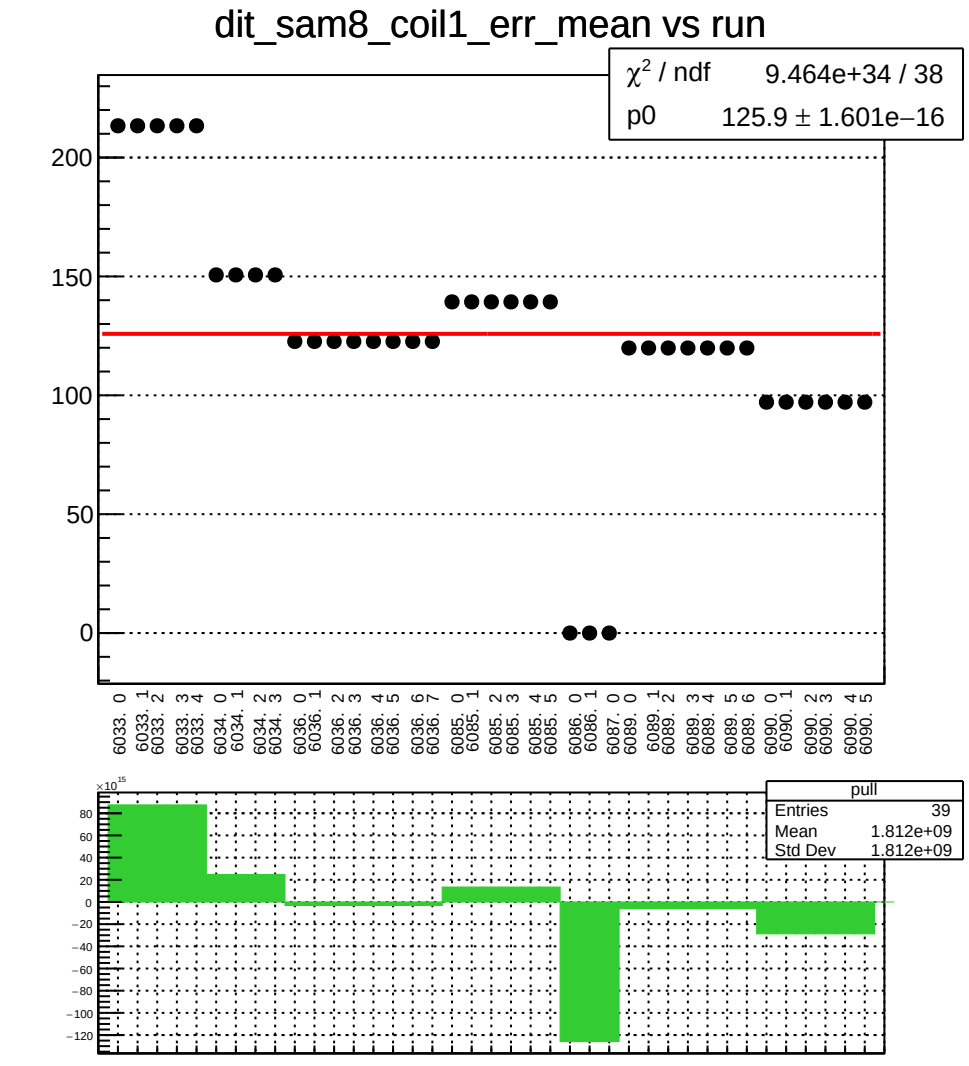

dit_sam7_coil1_mean vs run
χ² / ndf inf / 38
p0 1.209e+04 ± 1.601e−16
16000
14000
12000
10000
8000
6000
4000
2000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
pull
Entries 39
Mean 1.115e+09
Std Dev 1.115e+09
pull1D
Entries 39
Mean 0
Std Dev 0

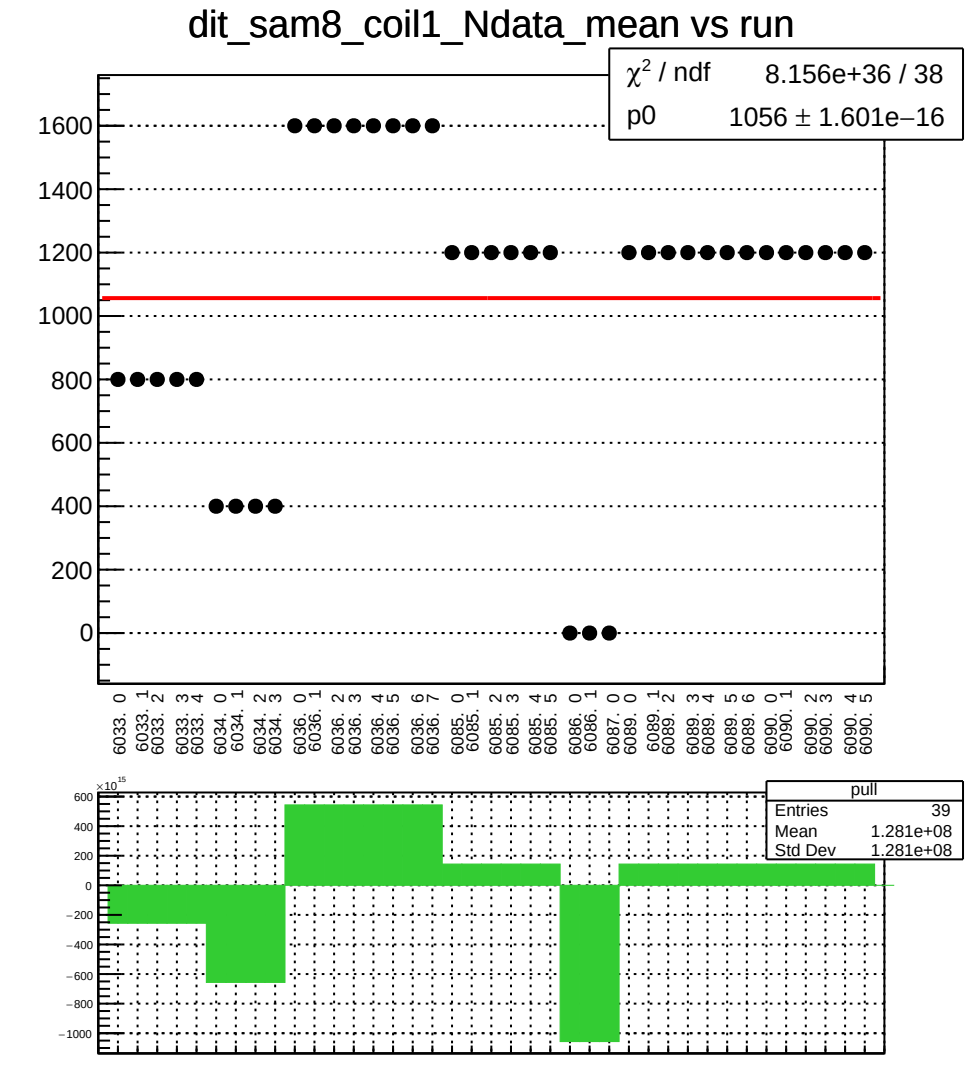

dit_sam7_coil1_err_mean vs run
χ² / ndf 1.051e+35 / 38
p0 119.1± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 39
Mean 3.155e+10
Std Dev 3.155e+10
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

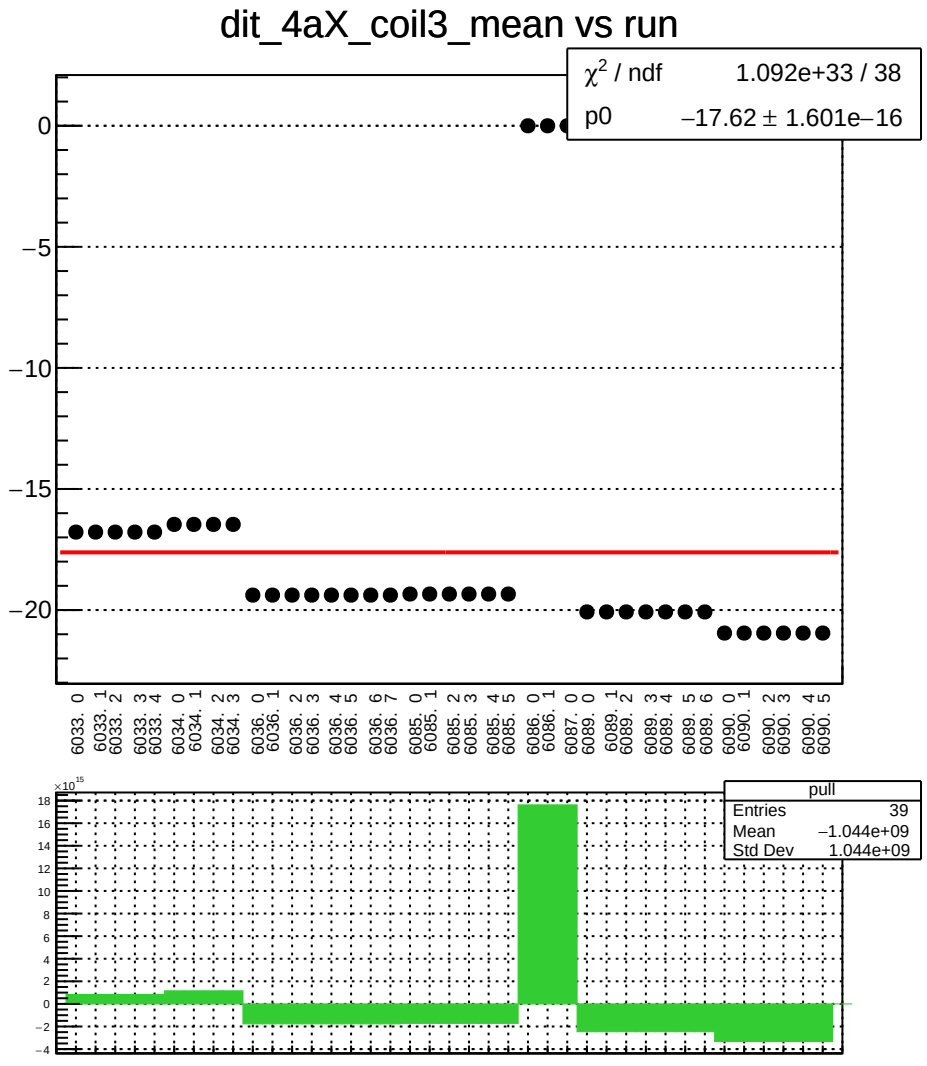

dit_sam7_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

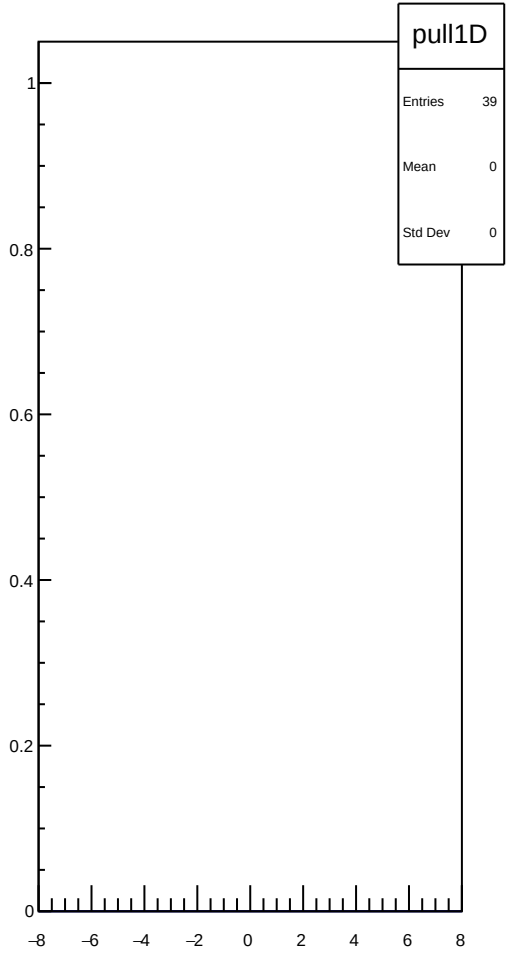

dit_sam8_coil1_mean vs run
χ² / ndf inf / 38
p0 1.099e+04 ± 1.601e−16
14000
12000
10000
8000
6000
4000
2000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 39
Mean −4.826e+08
Std Dev 4.826e+08

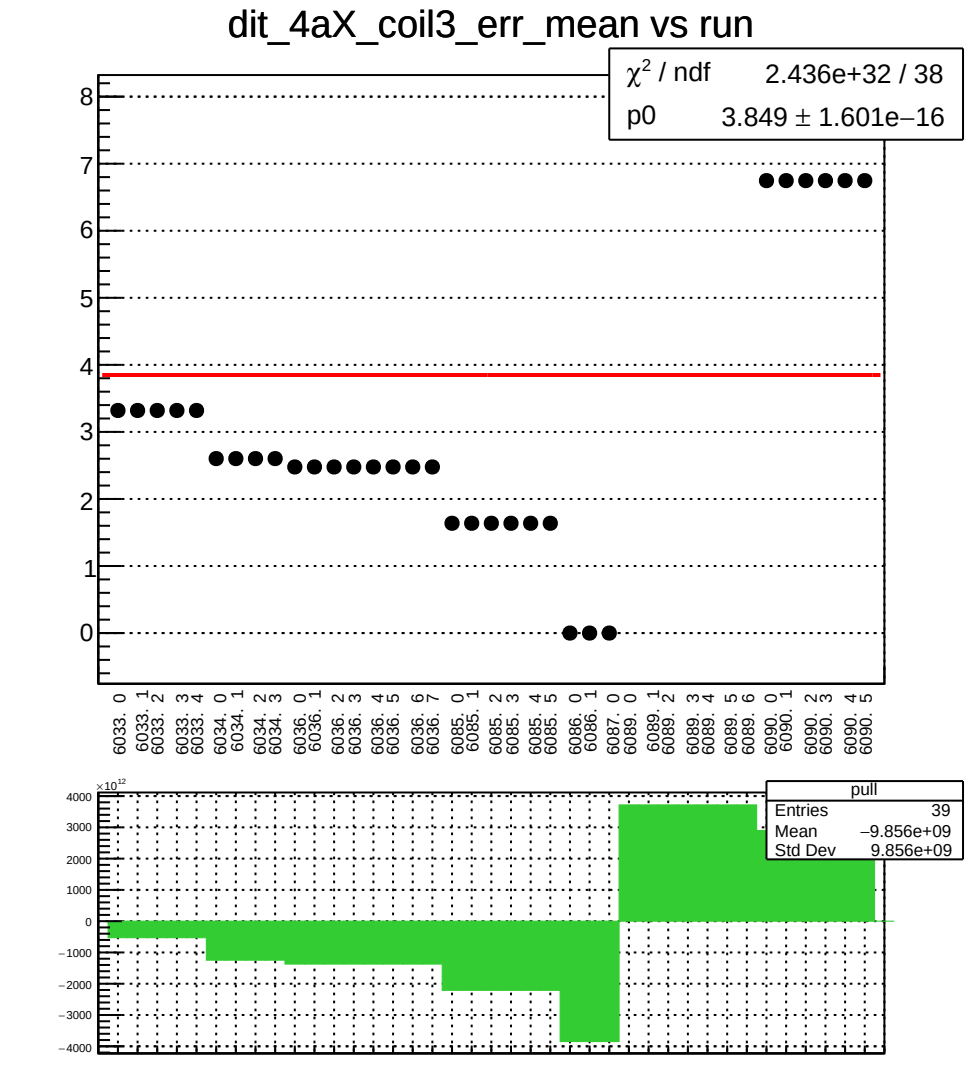

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

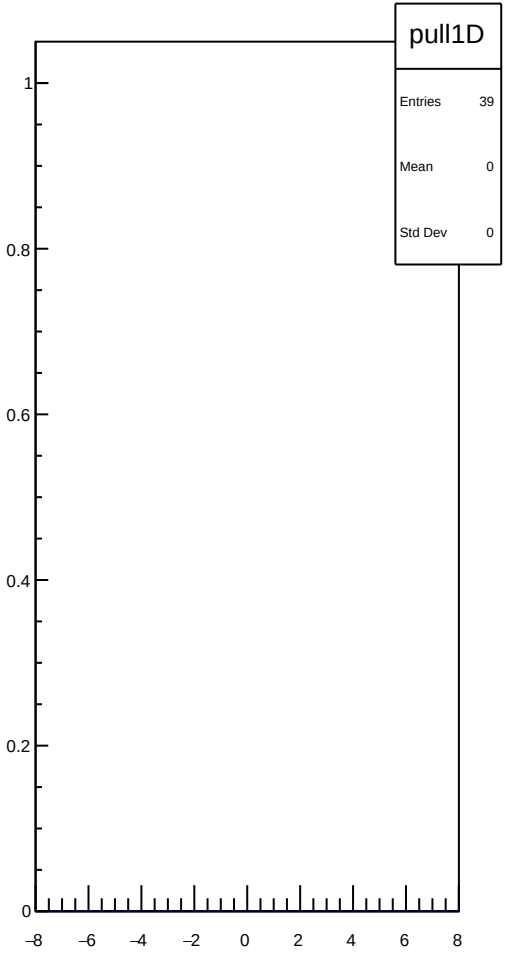

dit_sam8_coil1_err_mean vs run
χ² / ndf 9.464e+34 / 38
p0 125.9 ± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 39
Mean 1.812e+09
Std Dev 1.812e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

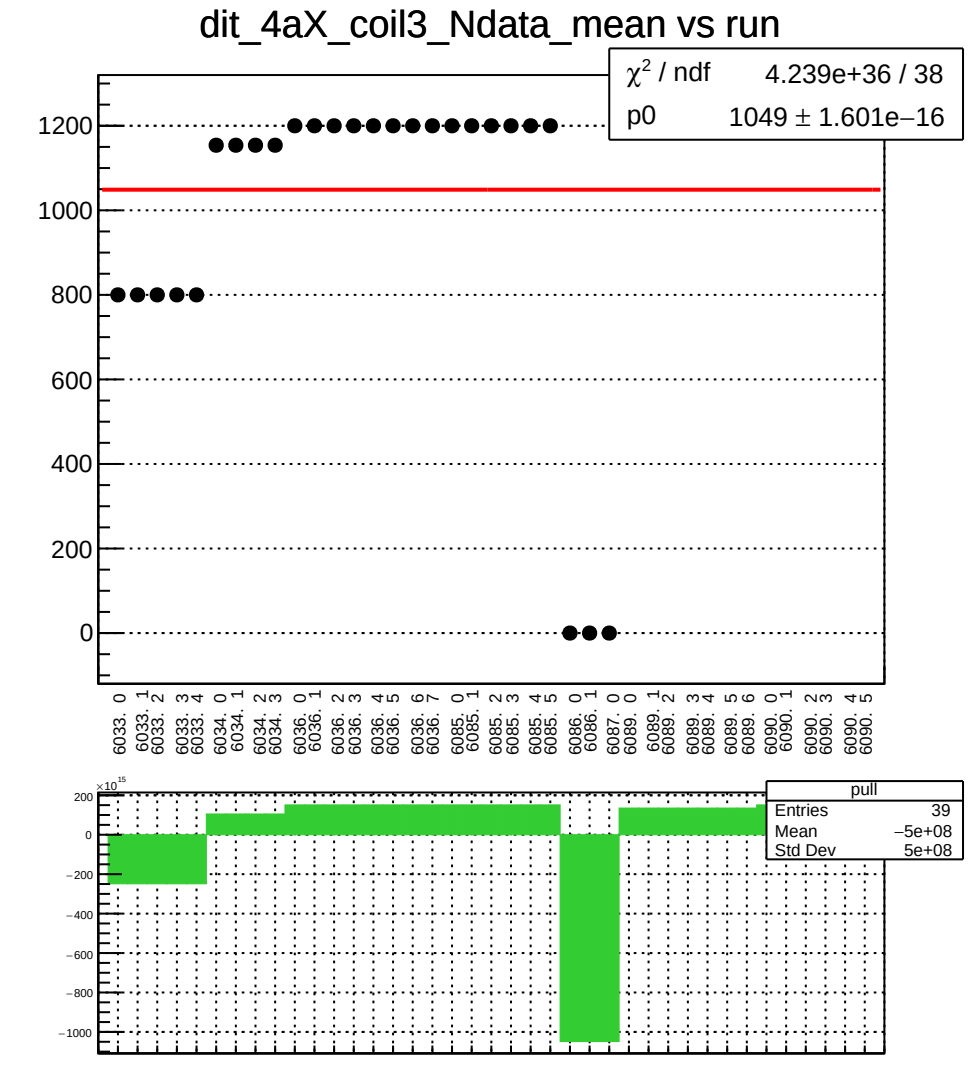

dit_sam8_coil1_Ndata_mean vs run
χ² / ndf 8.156e+36 / 38
p0 1056 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean 1.281e+08
Std Dev 1.281e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

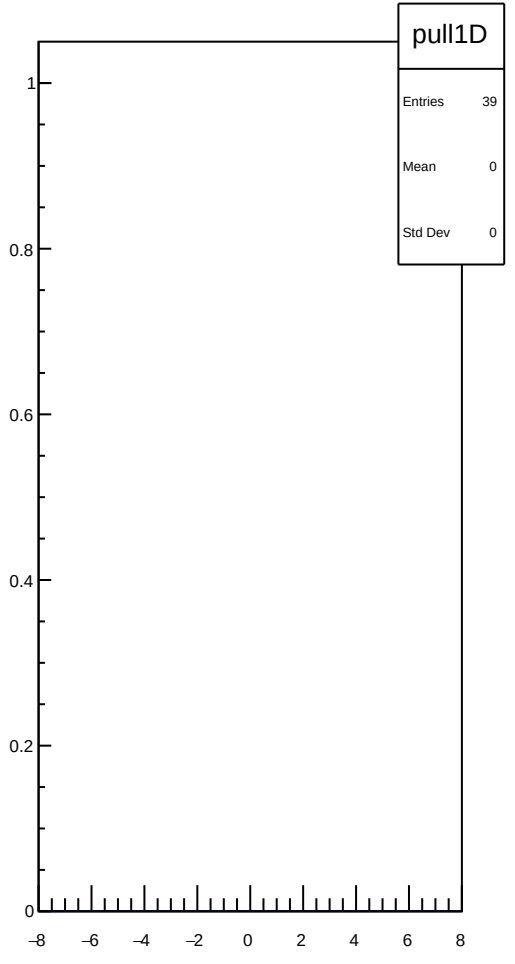

dit_4aX_coil3_mean vs run
χ² / ndf 1.092e+33 / 38
p0 −17.62 ± 1.601e−16
0
−5
−10
−15
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
18
16
14
12
10
8
6
4
2
0
−2
−4
pull
Entries 39
Mean −1.044e+09
Std Dev 1.044e+09

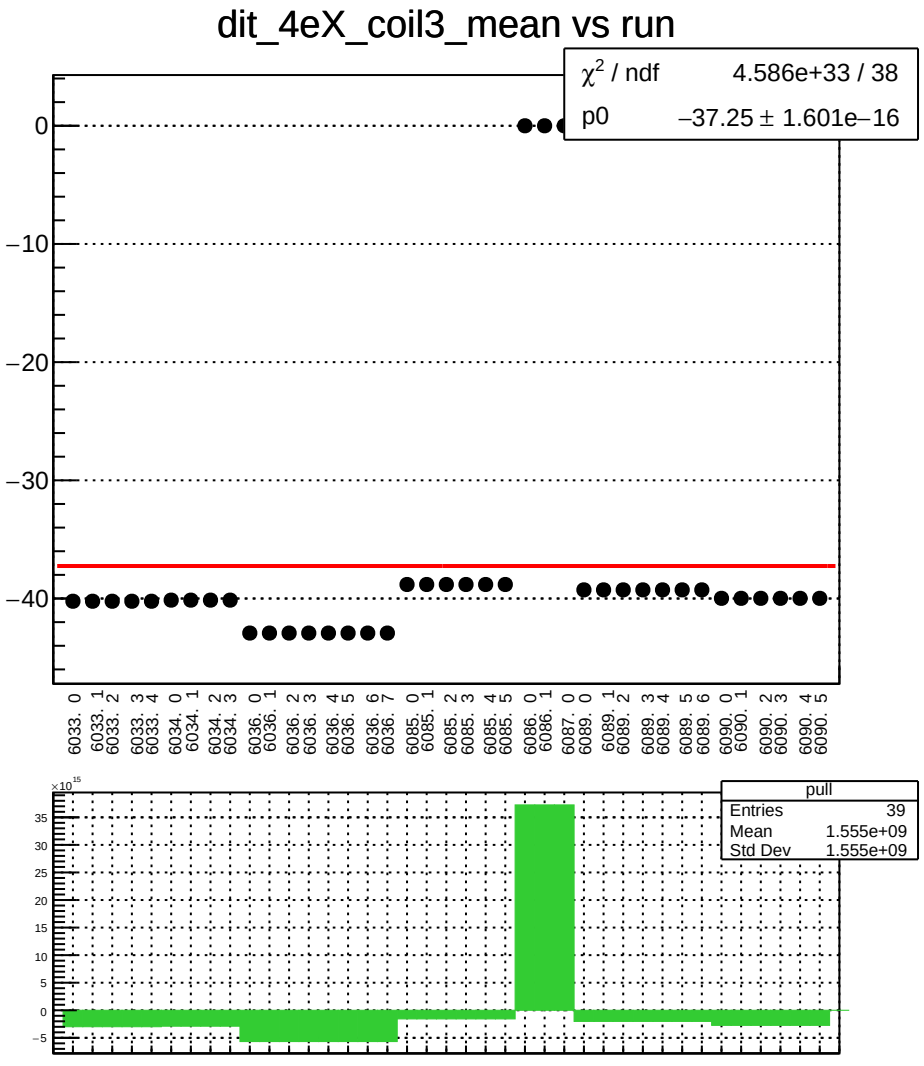

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

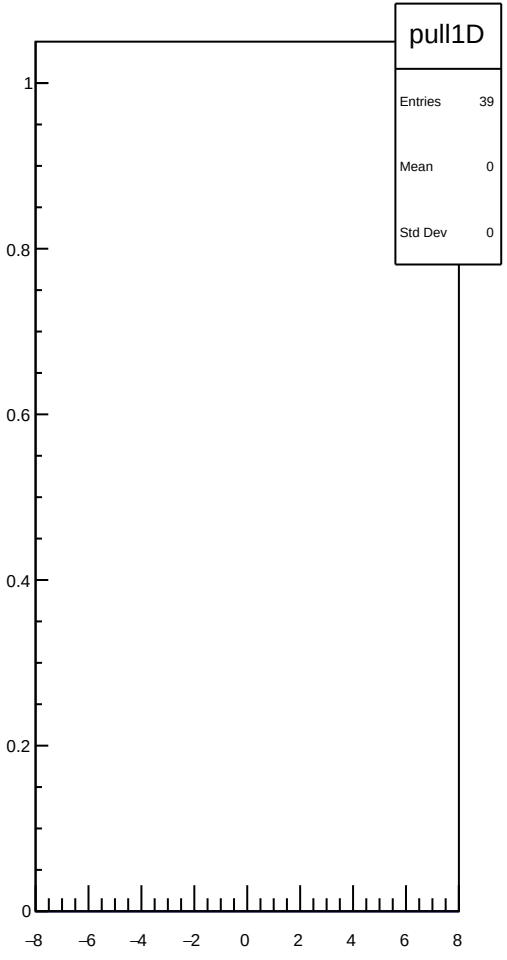

dit_4aX_coil3_err_mean vs run
χ² / ndf 2.436e+32 / 38
p0 3.849 ± 1.601e−16
pull
Entries 39
Mean −9.856e+09
Std Dev 9.856e+09
×10¹²

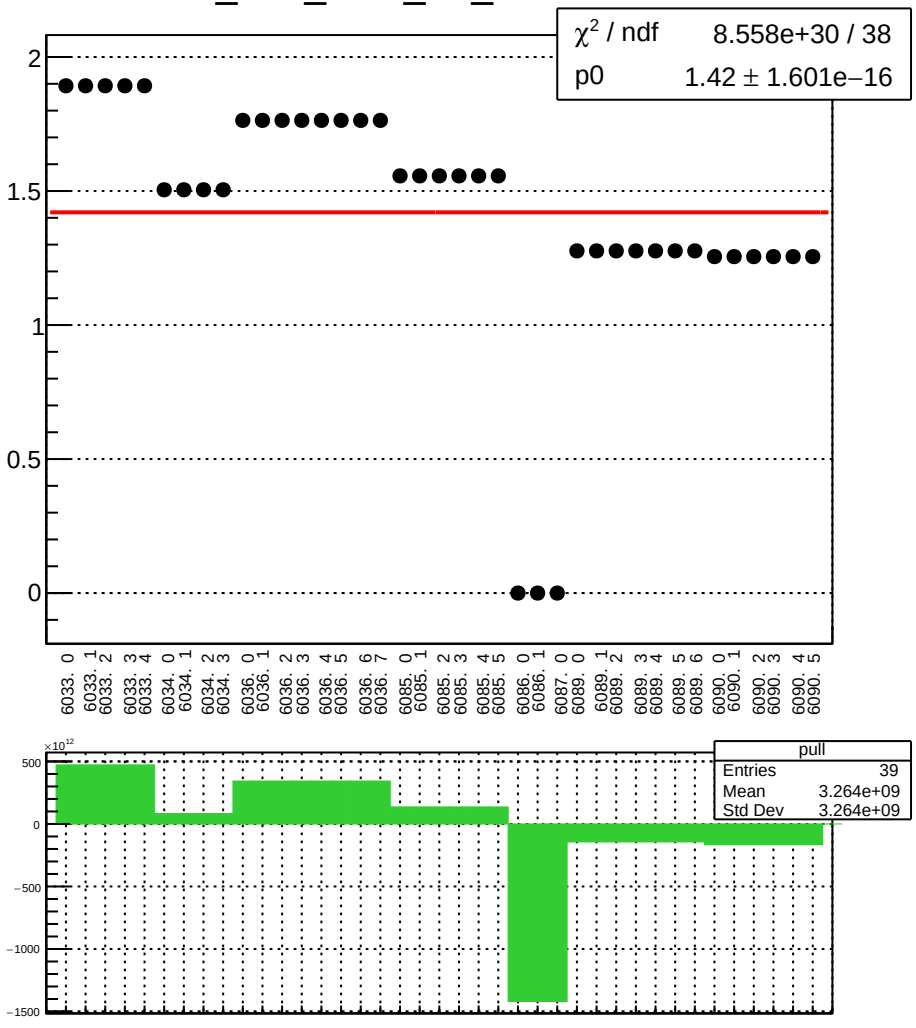

pull1D
Entries 39
Mean 0
Std Dev 0

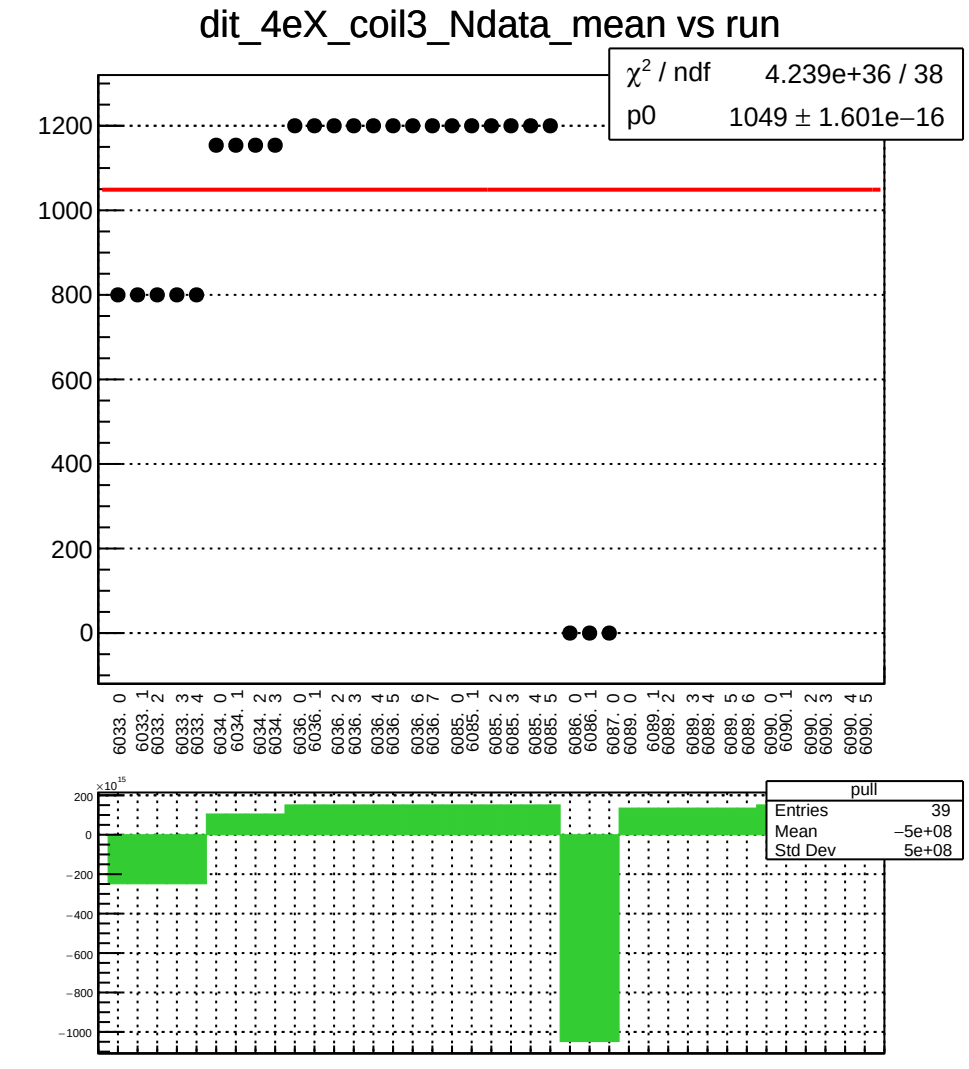

dit_4aX_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

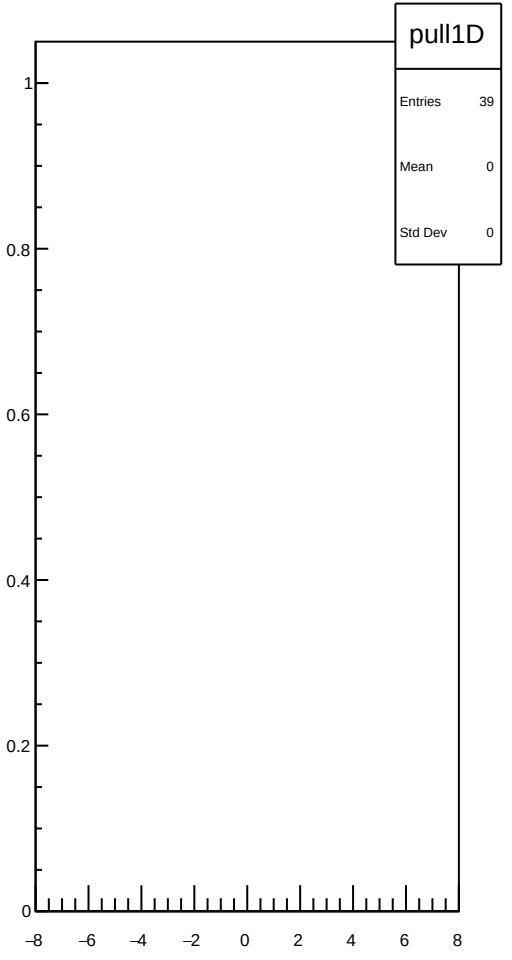

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

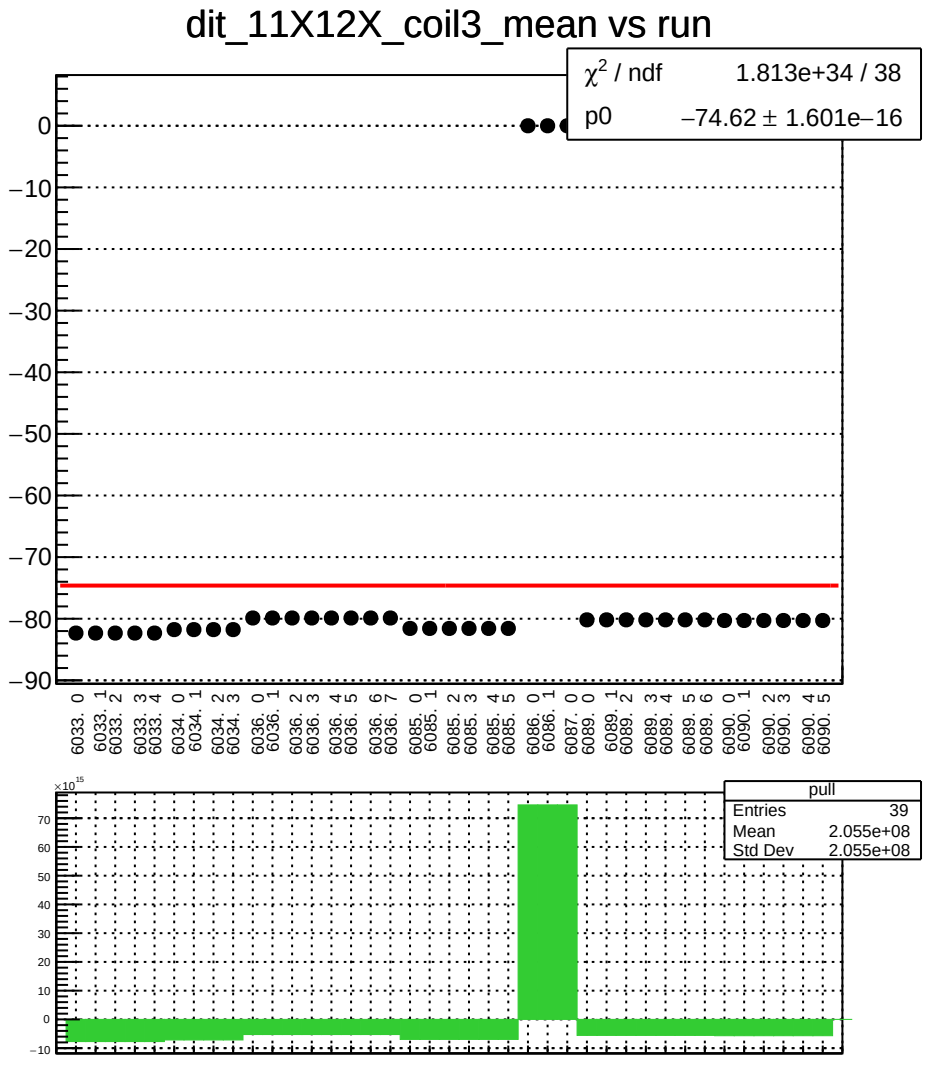

dit_4eX_coil3_mean vs run
χ² / ndf 4.586e+33 / 38
p0 −37.25 ± 1.601e−16
0
−10
−20
−30
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
35
30
25
20
15
10
5
0
−5
pull
Entries 39
Mean 1.555e+09
Std Dev 1.555e+09

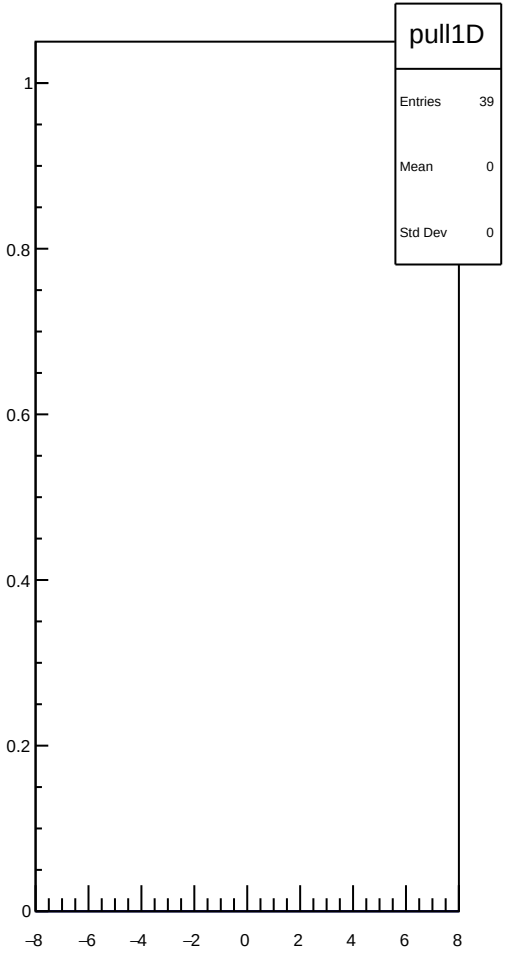

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

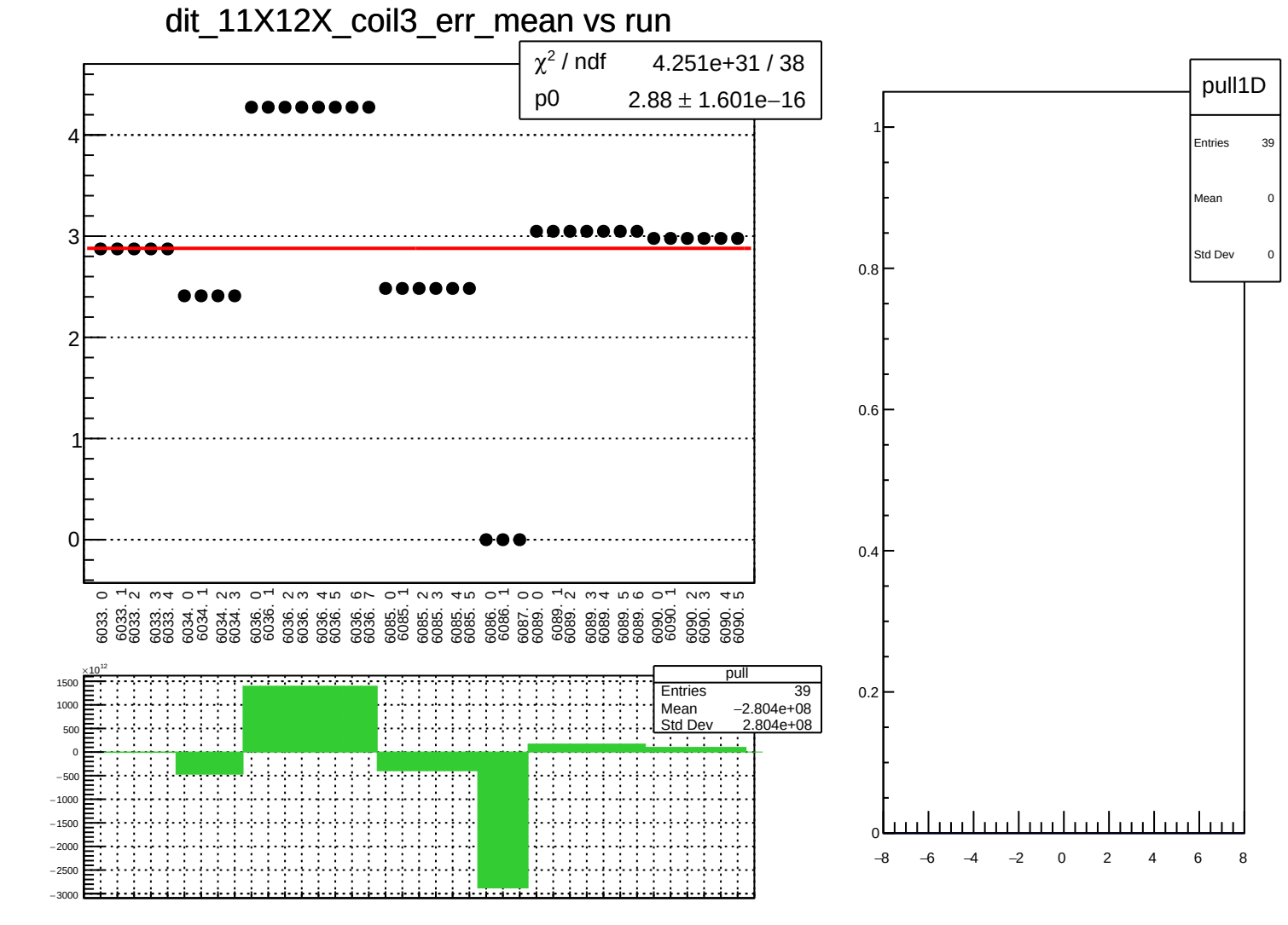

dit_4eX_coil3_err_mean vs run
χ² / ndf 8.558e+30 / 38
p0 1.42 ± 1.601e−16
2
1.5
1
0.5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
500
0
−500
−1000
−1500
pull
Entries 39
Mean 3.264e+09
Std Dev 3.264e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

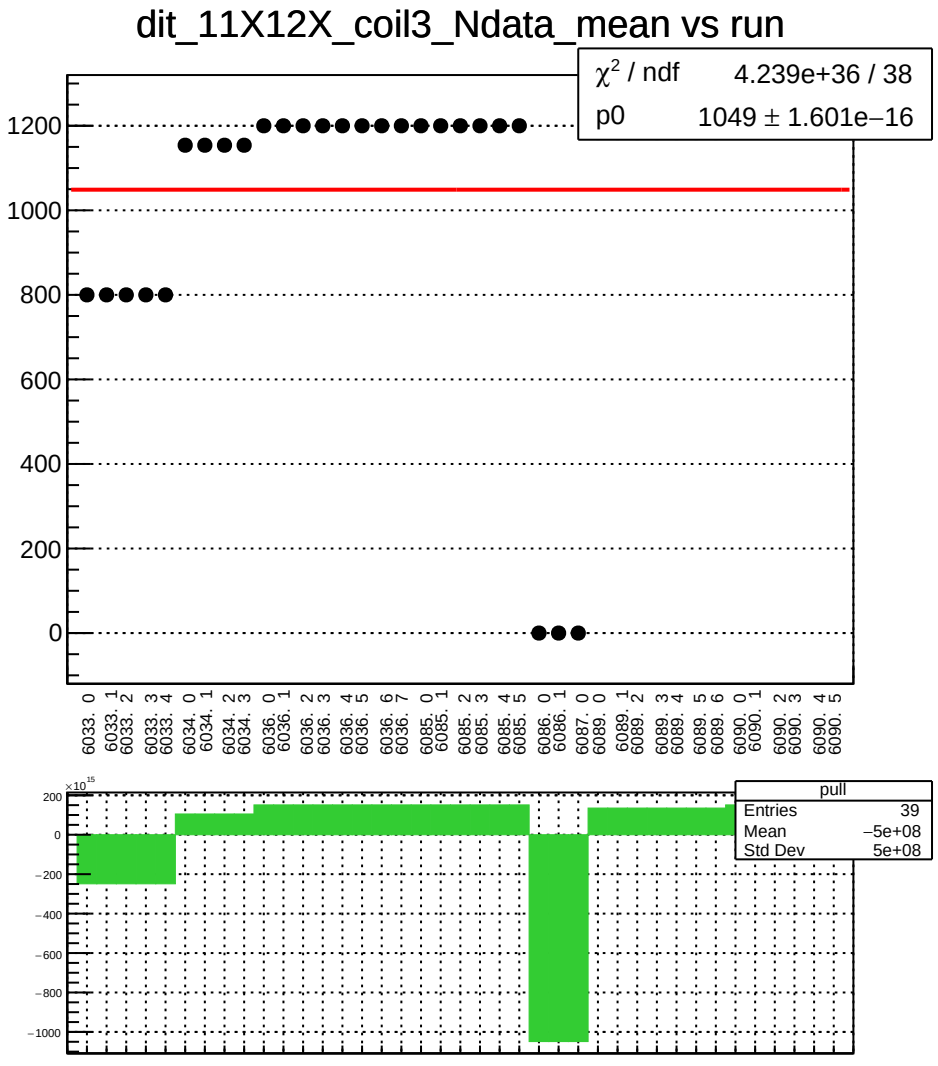

dit_4eX_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

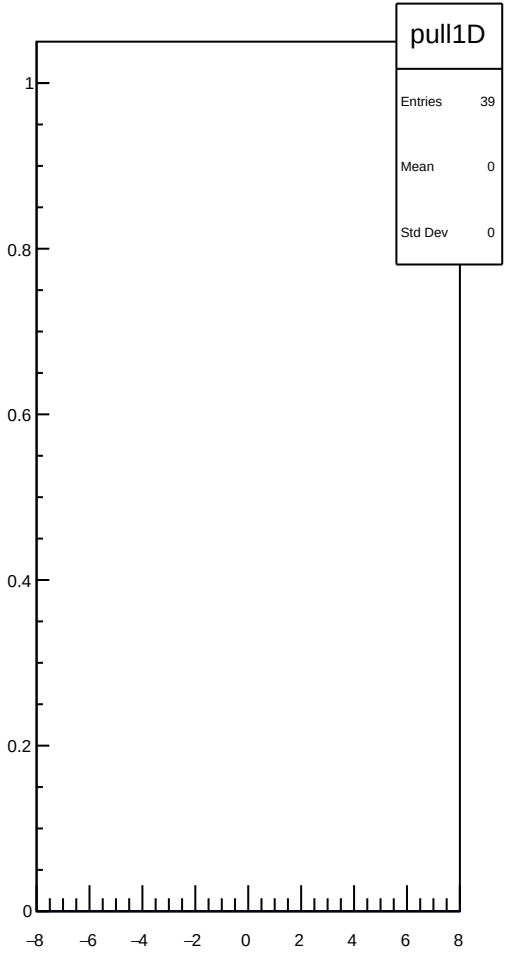

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

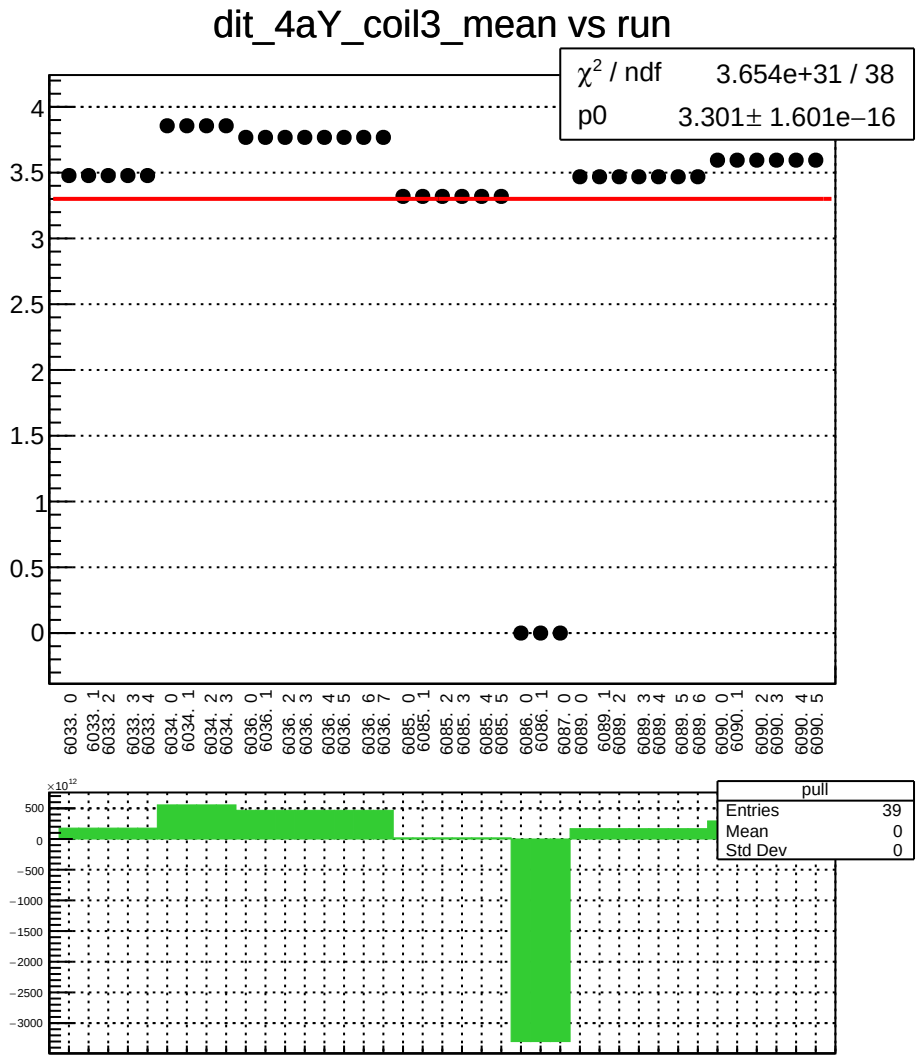

dit_11X12X_coil3_mean vs run
χ² / ndf 1.813e+34 / 38
p0 −74.62 ± 1.601e−16
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
70
60
50
40
30
20
10
0
−10
pull
Entries 39
Mean 2.055e+08
Std Dev 2.055e+08

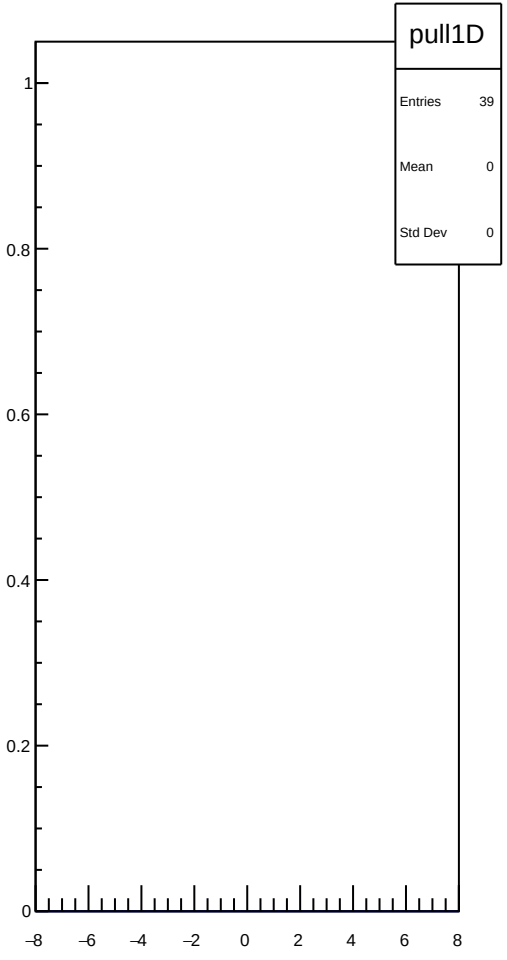

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

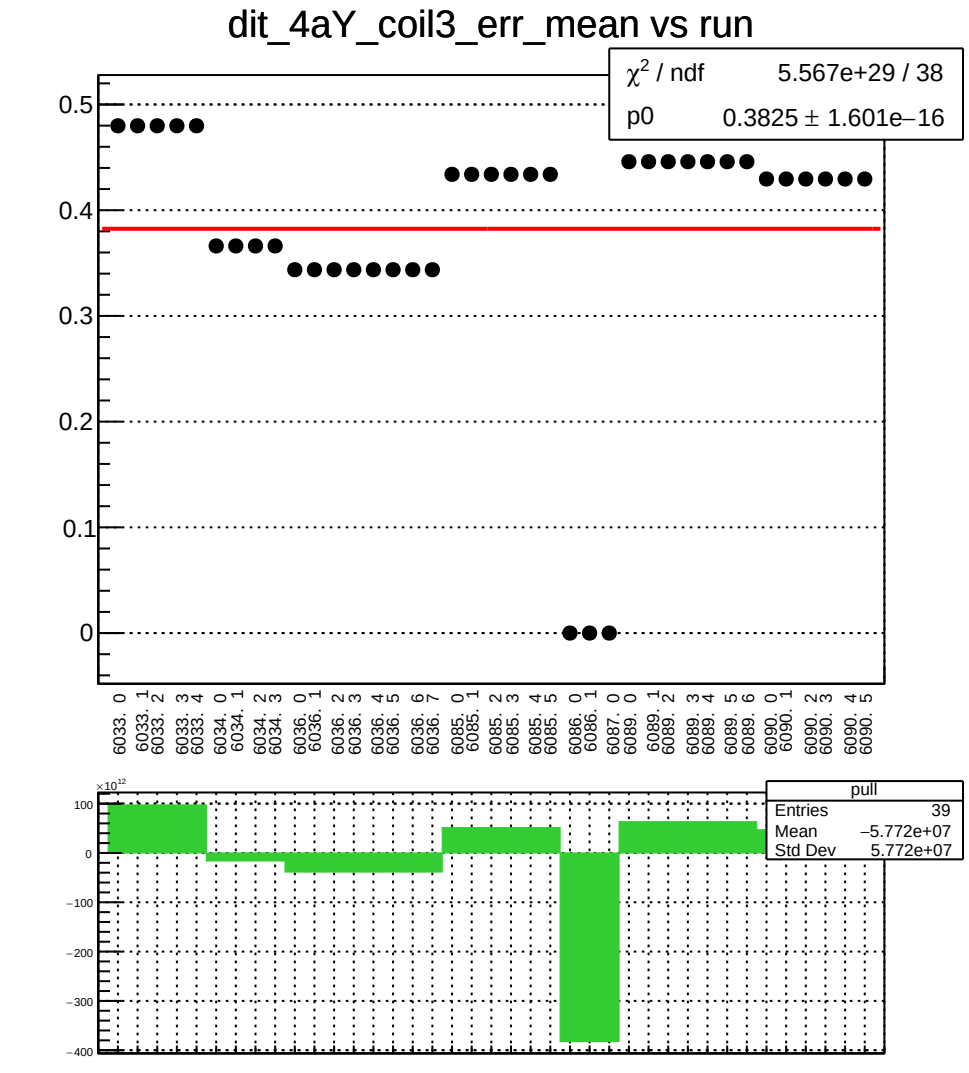

dit_11X12X_coil3_err_mean vs run
χ² / ndf 4.251e+31 / 38
p0 2.88 ± 1.601e−16
pull
Entries 39
Mean −2.804e+08
Std Dev 2.804e+08
pull1D
Entries 39
Mean 0
Std Dev 0

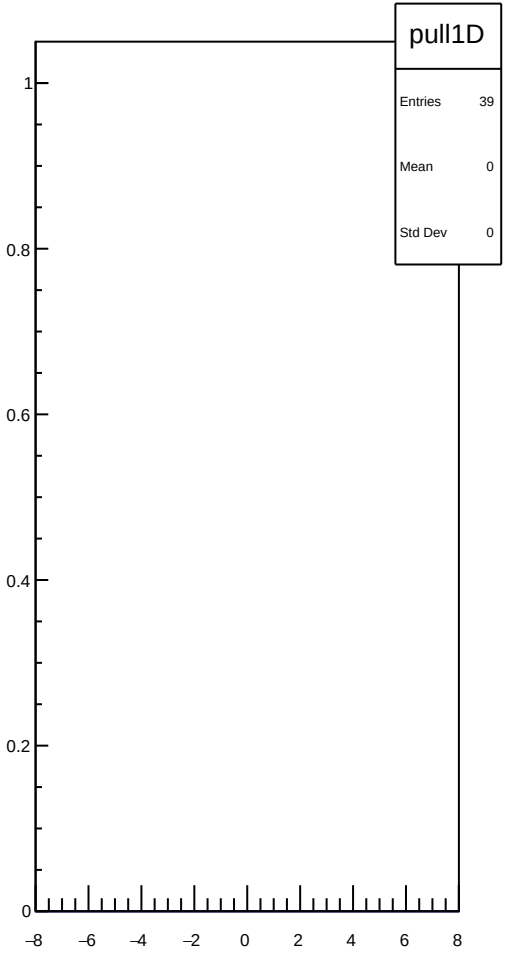

dit_11X12X_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

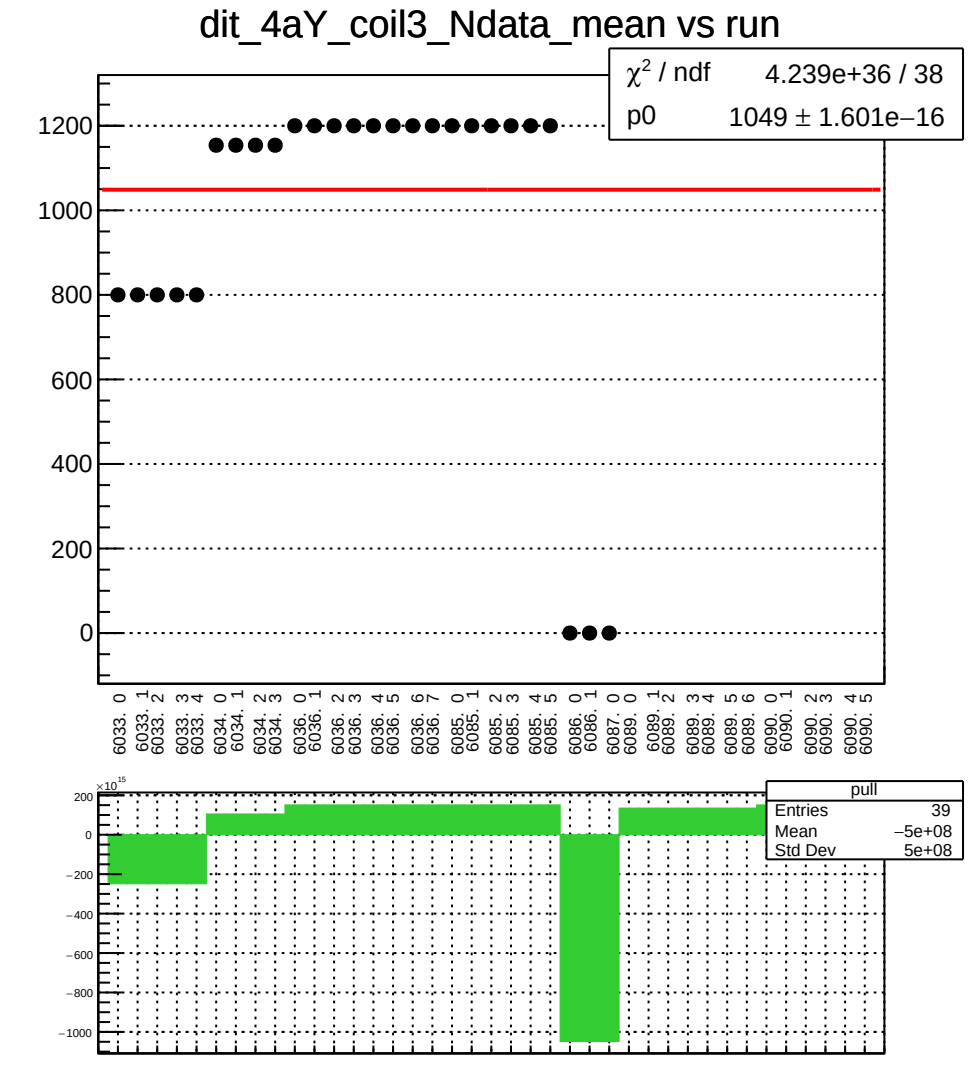

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

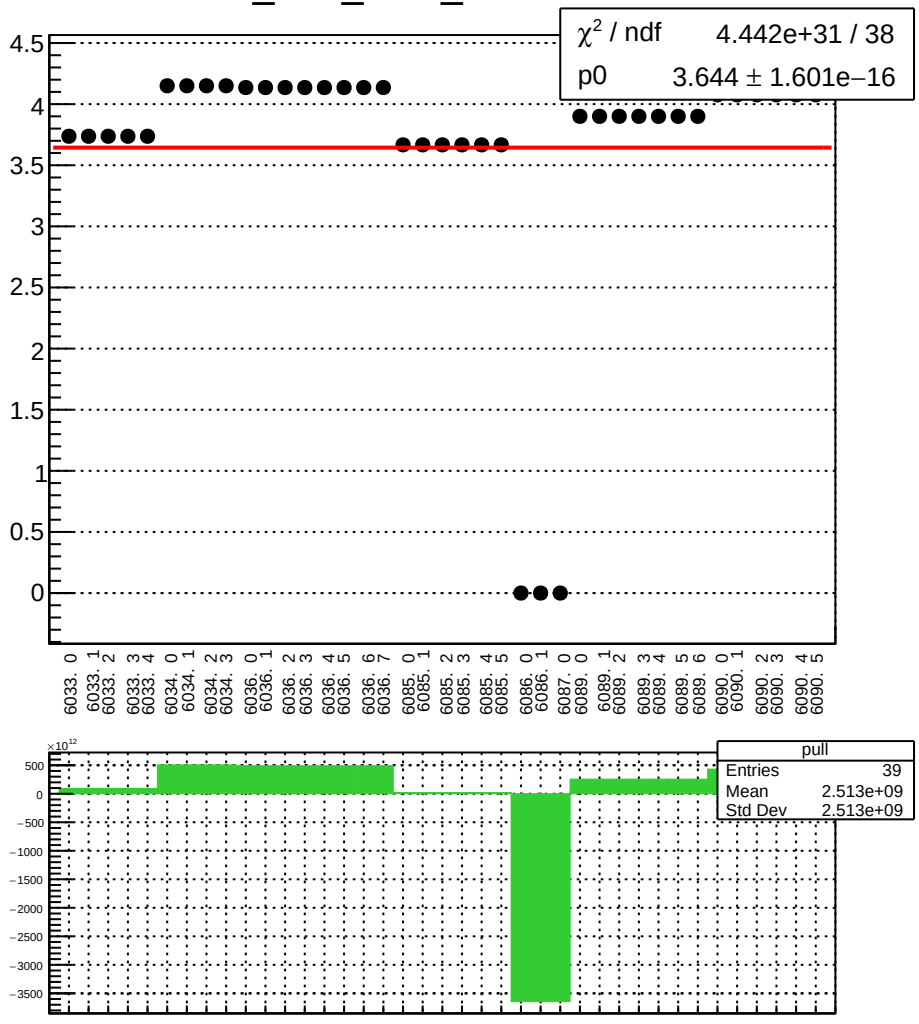

dit_4aY_coil3_mean vs run
χ² / ndf 3.654e+31 / 38
p0 3.301± 1.601e−16
4
3.5
3
2.5
2
1.5
1
0.5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull
Entries 39
Mean 0
Std Dev 0

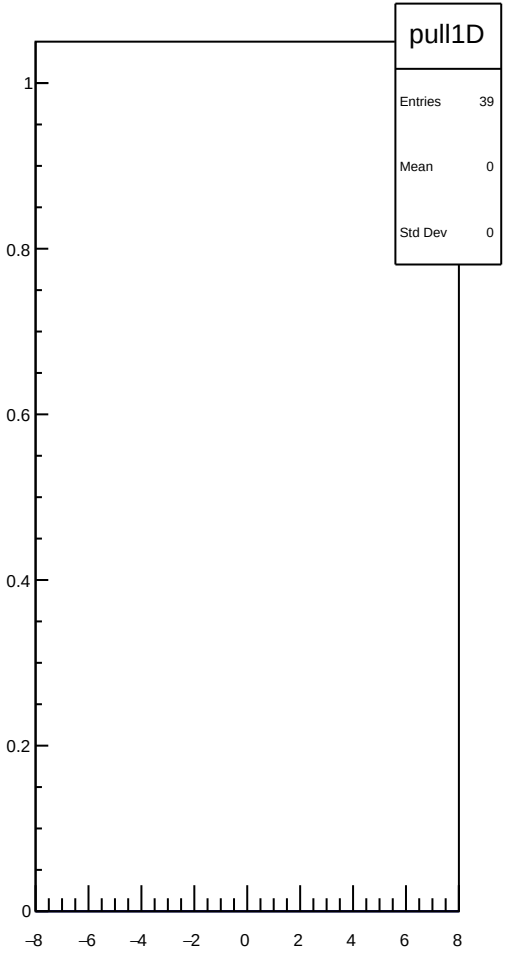

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

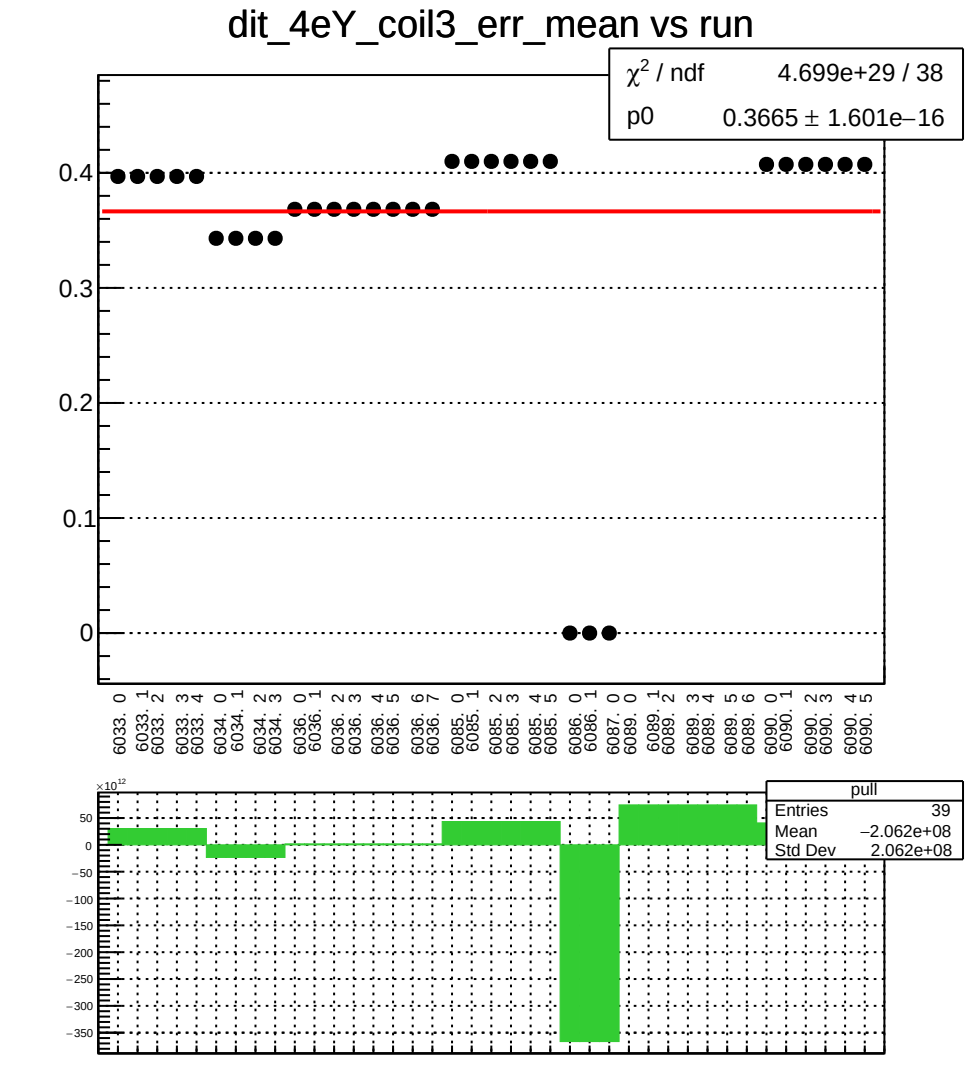

dit_4aY_coil3_err_mean vs run
χ² / ndf 5.567e+29 / 38
p0 0.3825 ± 1.601e−16
0.5
0.4
0.3
0.2
0.1
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
100
0
−100
−200
−300
−400
pull
Entries 39
Mean −5.772e+07
Std Dev 5.772e+07

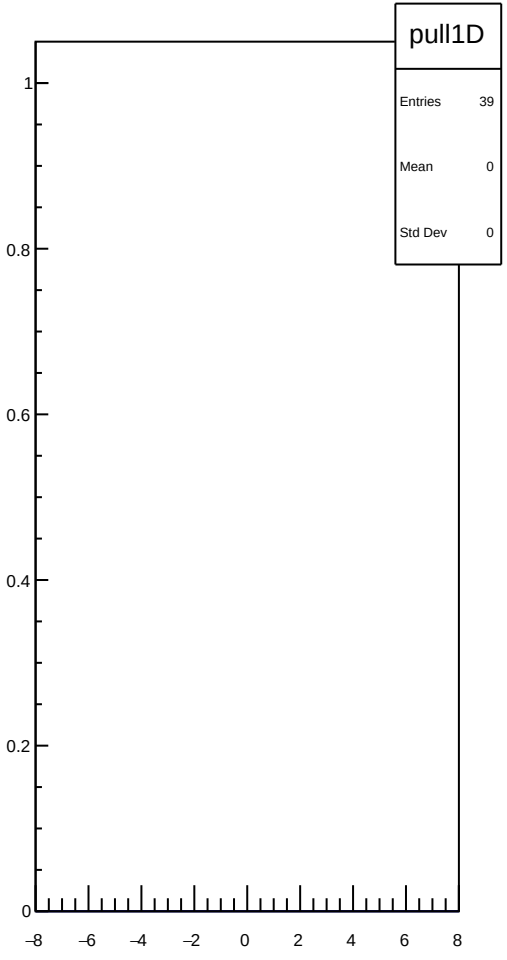

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

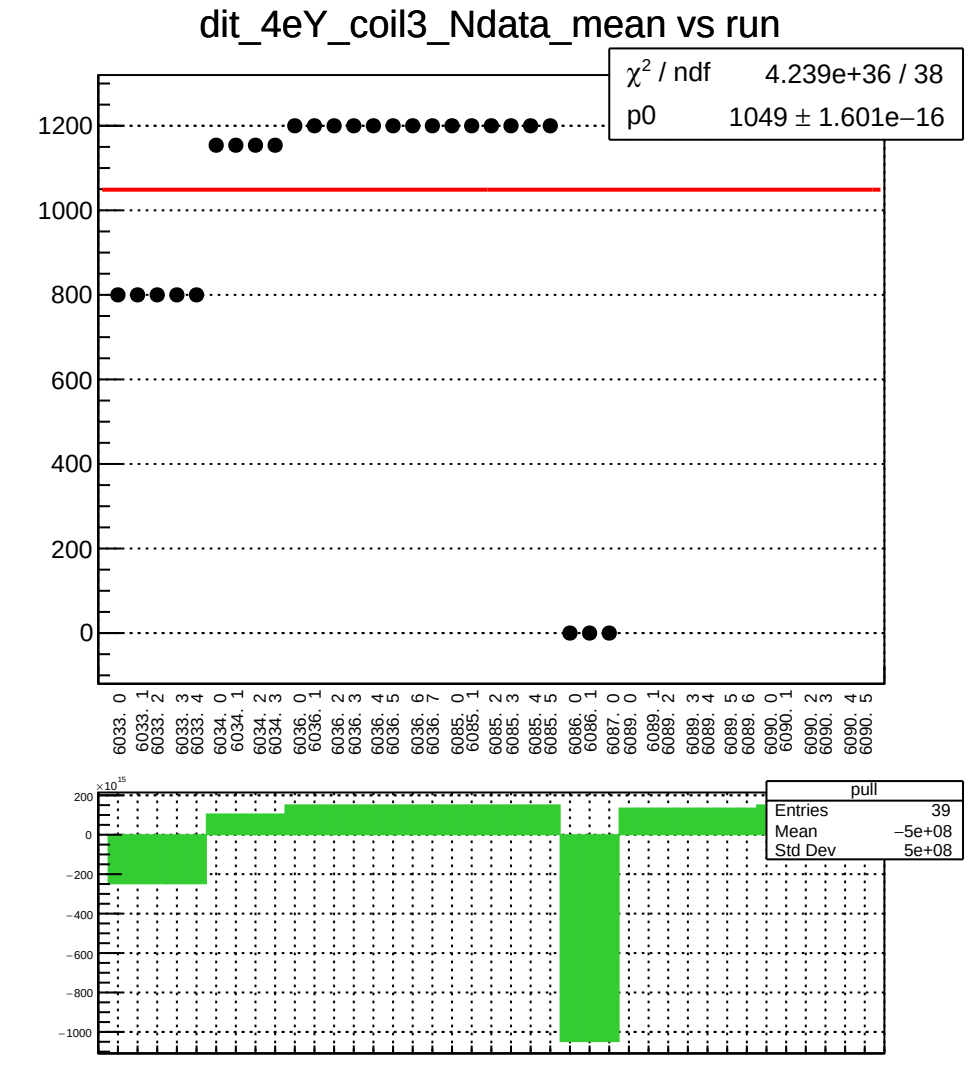

dit_4aY_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

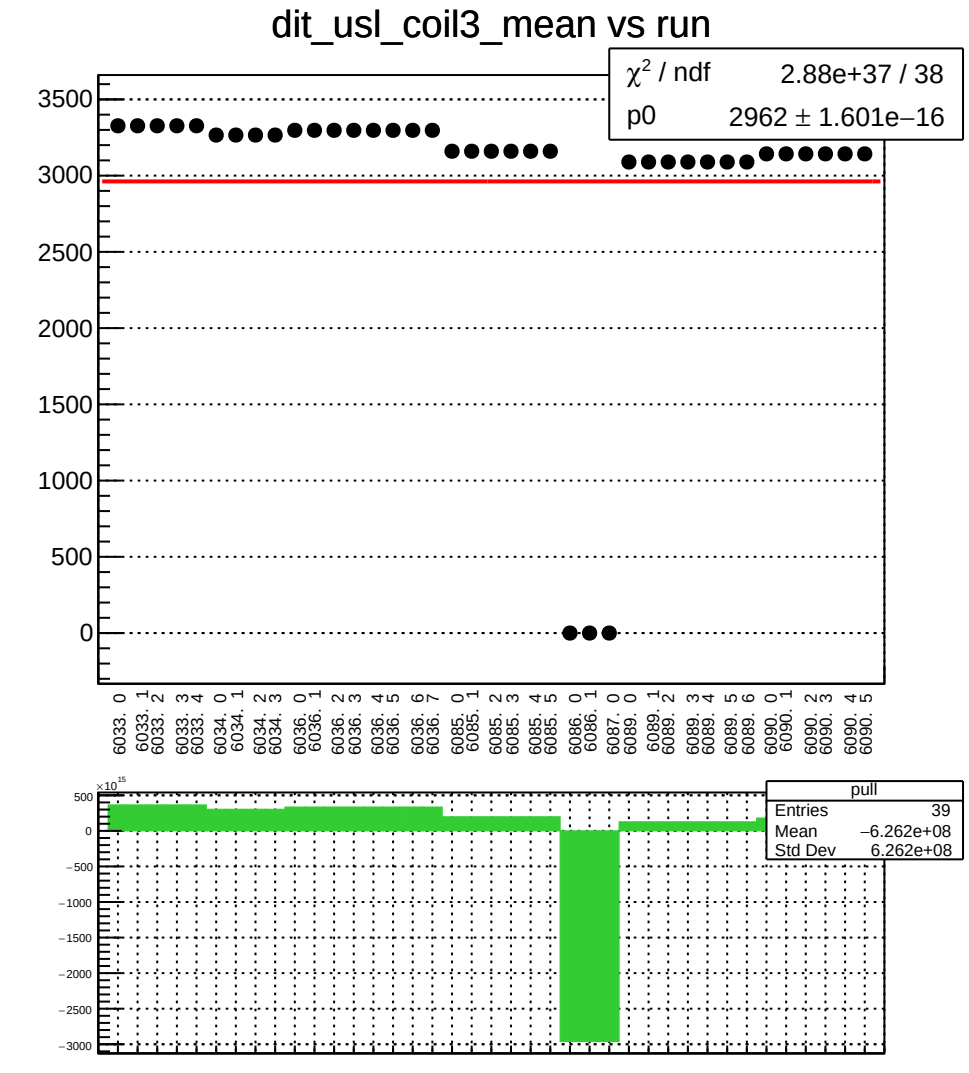

dit_4eY_coil3_mean vs run
χ² / ndf 4.442e+31 / 38
p0 3.644 ± 1.601e−16
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
pull
Entries 39
Mean 2.513e+09
Std Dev 2.513e+09

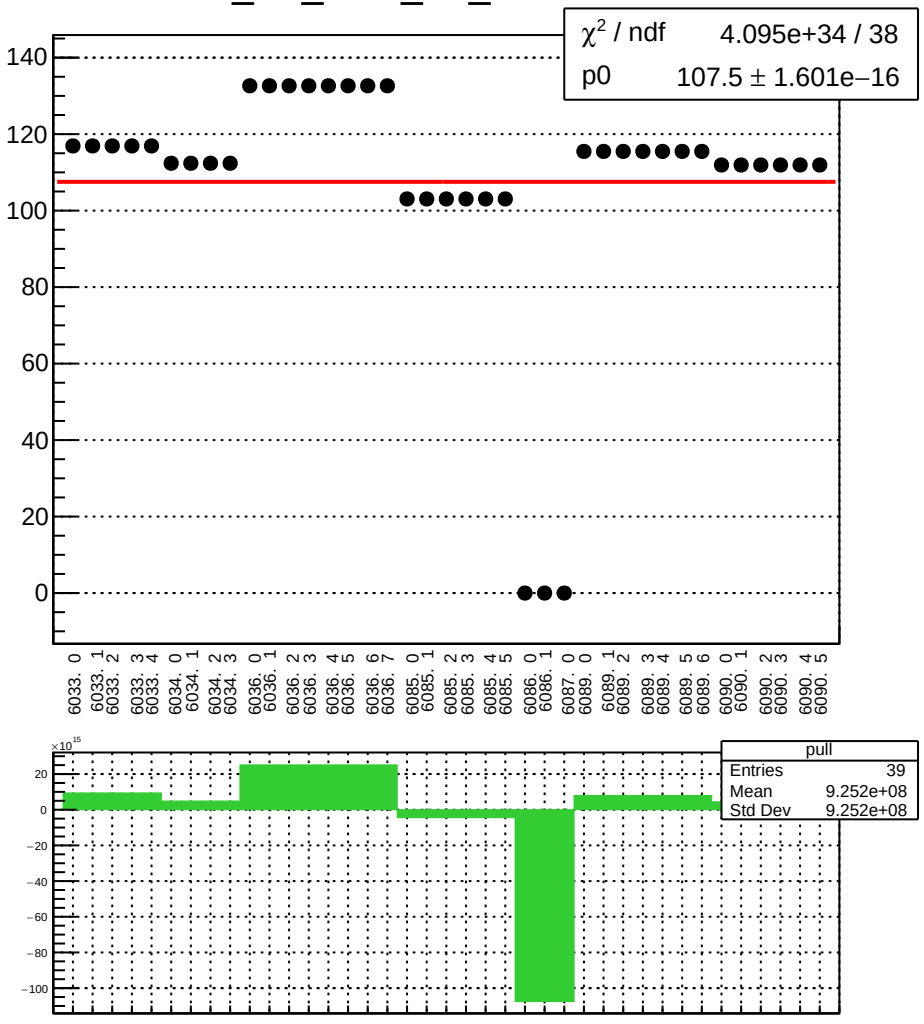

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

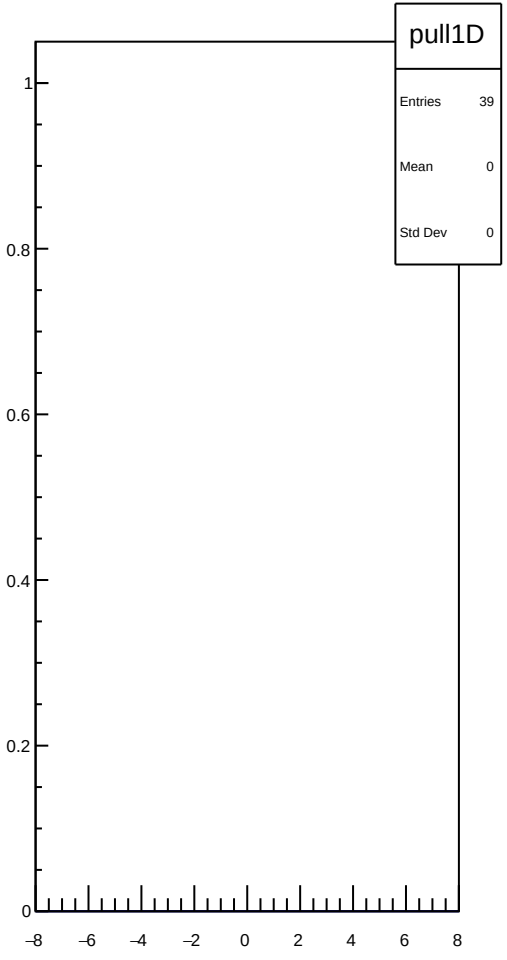

dit_4eY_coil3_err_mean vs run
χ² / ndf 4.699e+29 / 38
p0 0.3665 ± 1.601e−16
0.4
0.3
0.2
0.1
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
50
0
−50
−100
−150
−200
−250
−300
−350
pull
Entries 39
Mean −2.062e+08
Std Dev 2.062e+08

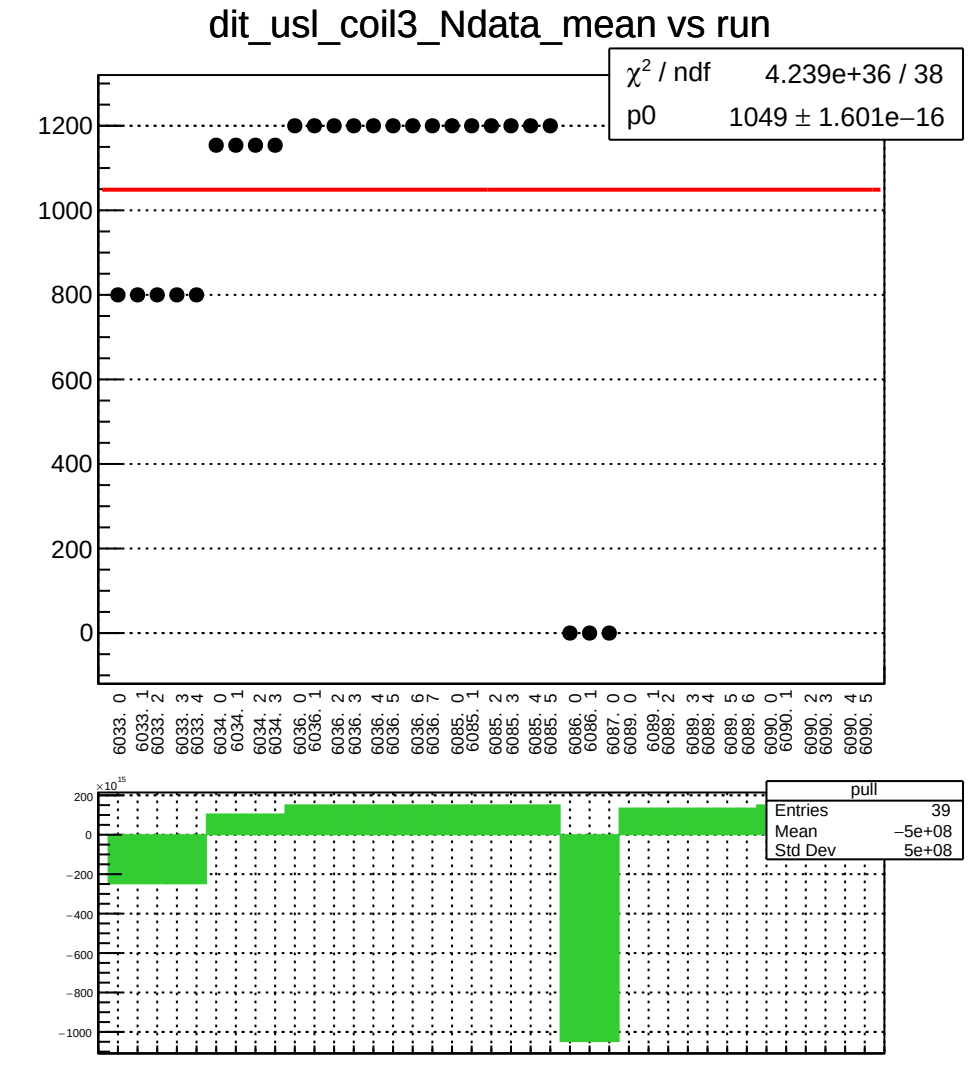

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

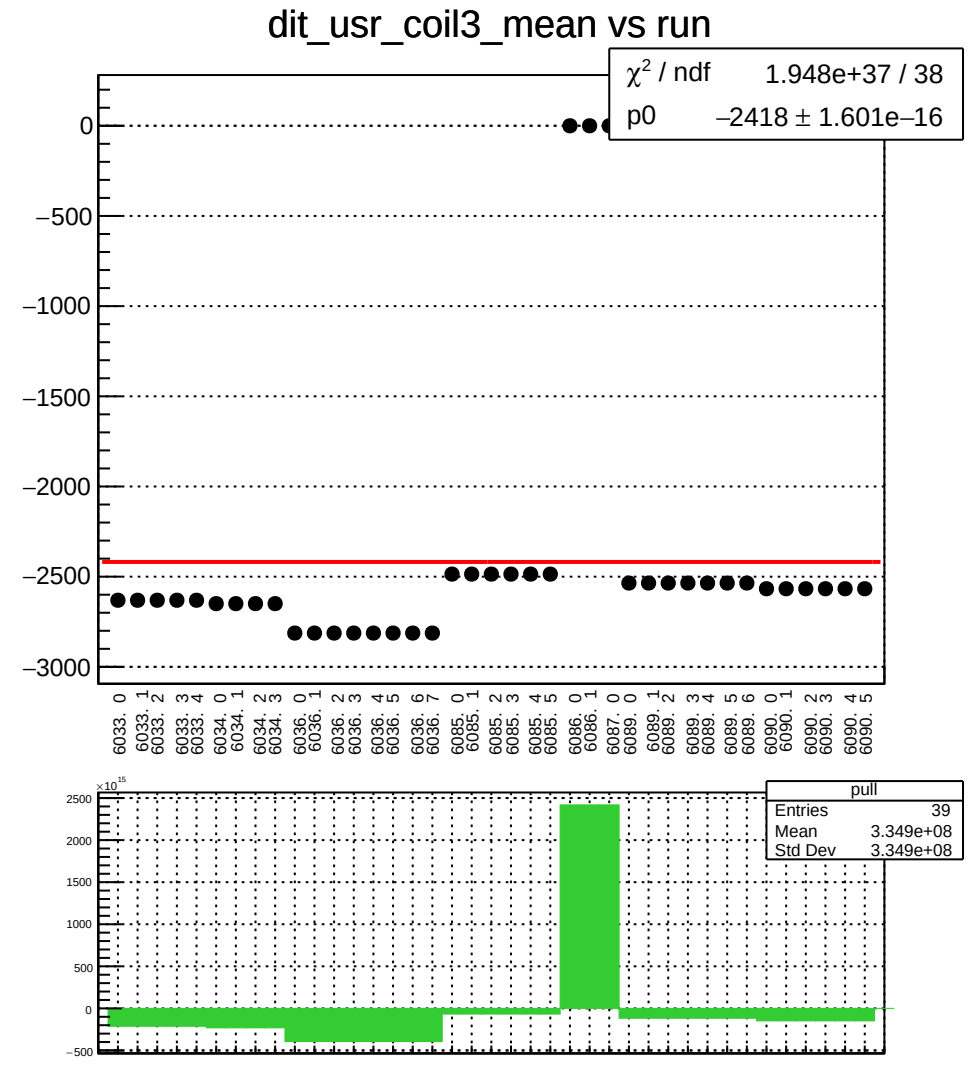

dit_4eY_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

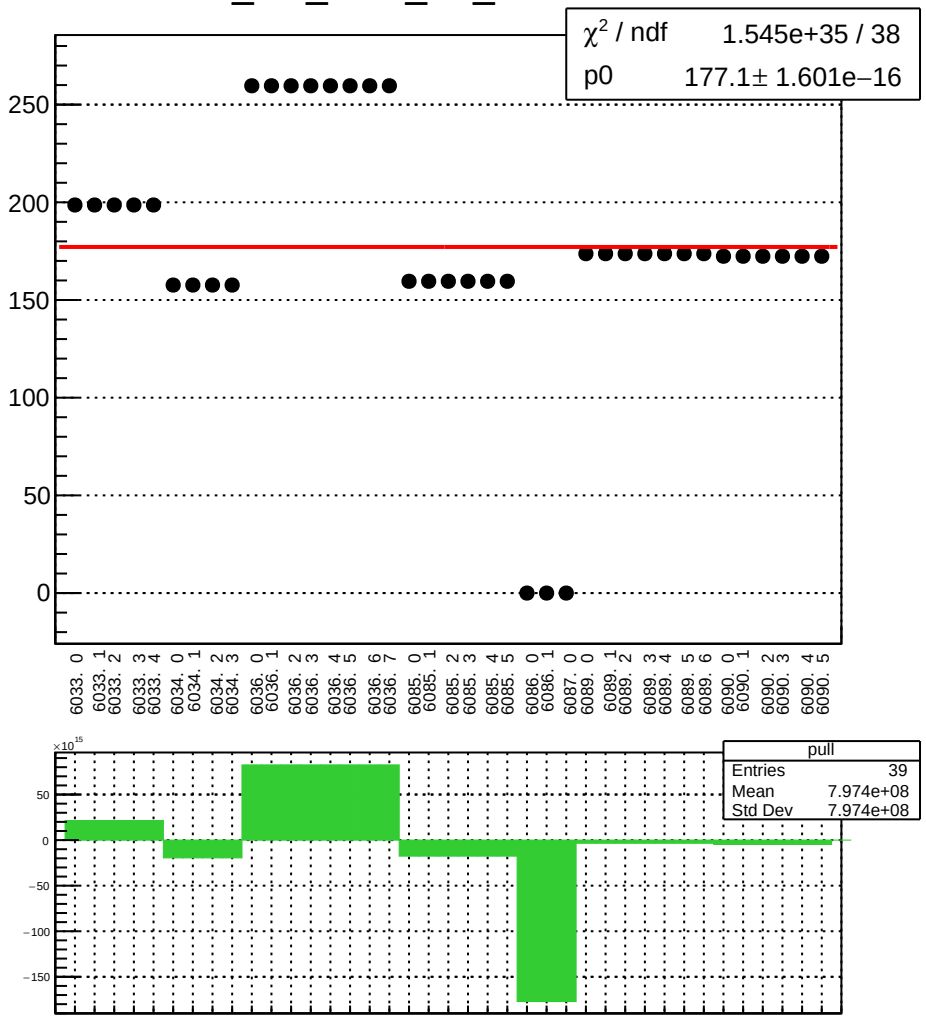

dit_usl_coil3_mean vs run
χ² / ndf 2.88e+37 / 38
p0 2962 ± 1.601e−16
3500
3000
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull
Entries 39
Mean −6.262e+08
Std Dev 6.262e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

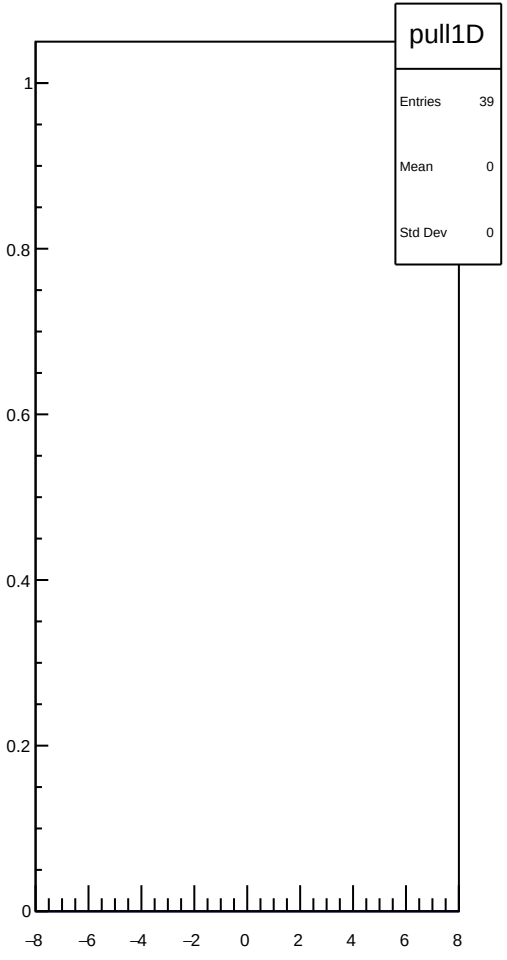

dit_usl_coil3_err_mean vs run
χ² / ndf 4.095e+34 / 38
p0 107.5 ± 1.601e−16
140
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
20
0
−20
−40
−60
−80
−100
pull
Entries 39
Mean 9.252e+08
Std Dev 9.252e+08

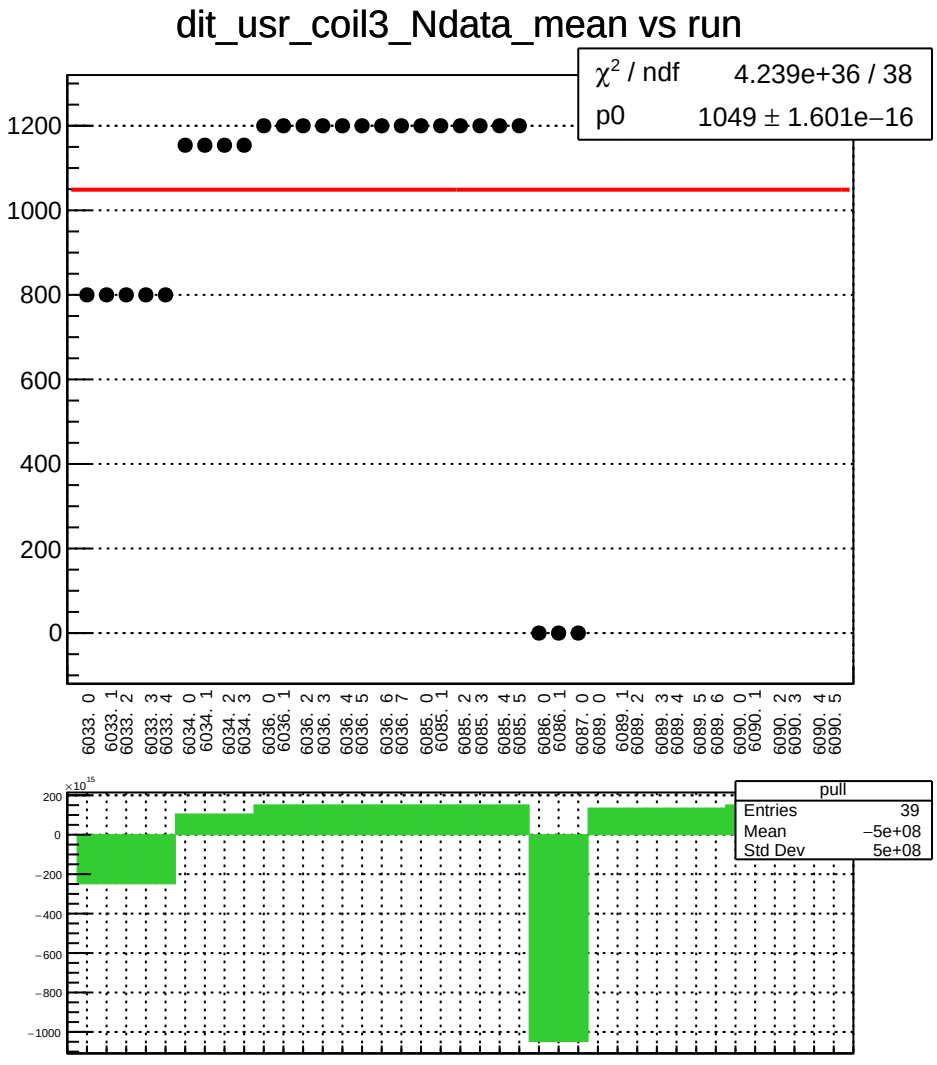

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

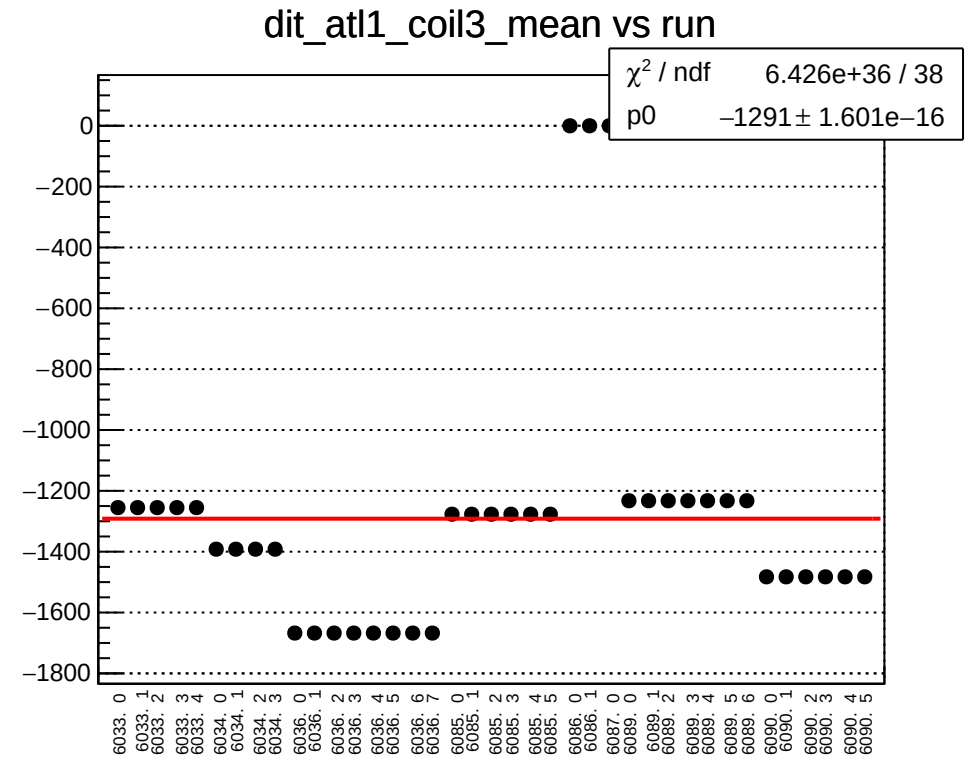

dit_usl_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

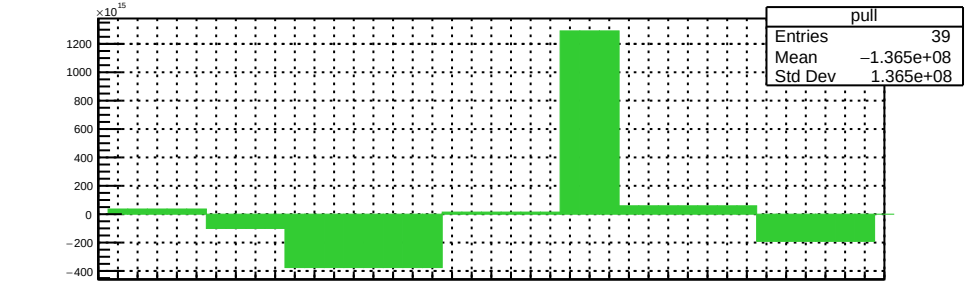

dit_usr_coil3_mean vs run
χ² / ndf 1.948e+37 / 38
p0 −2418 ± 1.601e−16
0
−500
−1000
−1500
−2000
−2500
−3000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
2500
2000
1500
1000
500
0
−500
pull
Entries 39
Mean 3.349e+08
Std Dev 3.349e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

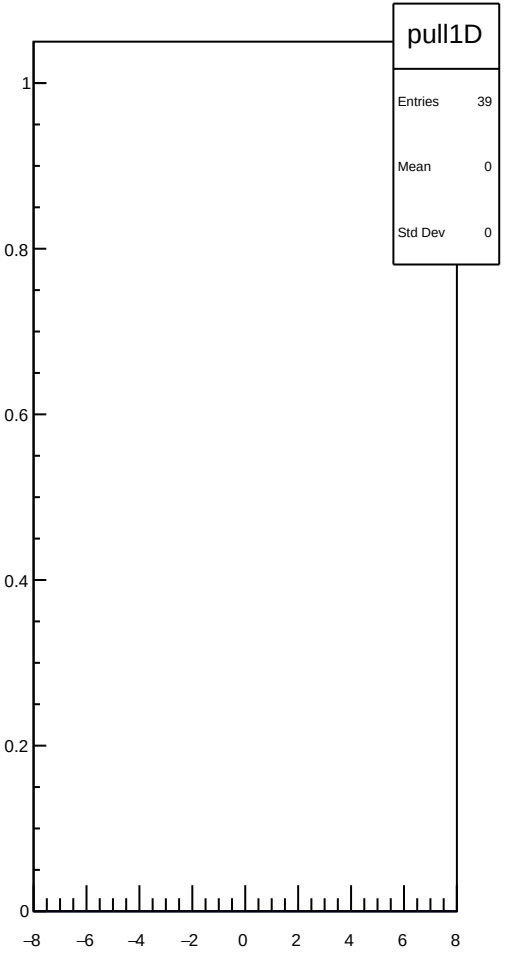

dit_usr_coil3_err_mean vs run
χ² / ndf 1.545e+35 / 38
p0 177.1± 1.601e−16
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
pull
Entries 39
Mean 7.974e+08
Std Dev 7.974e+08

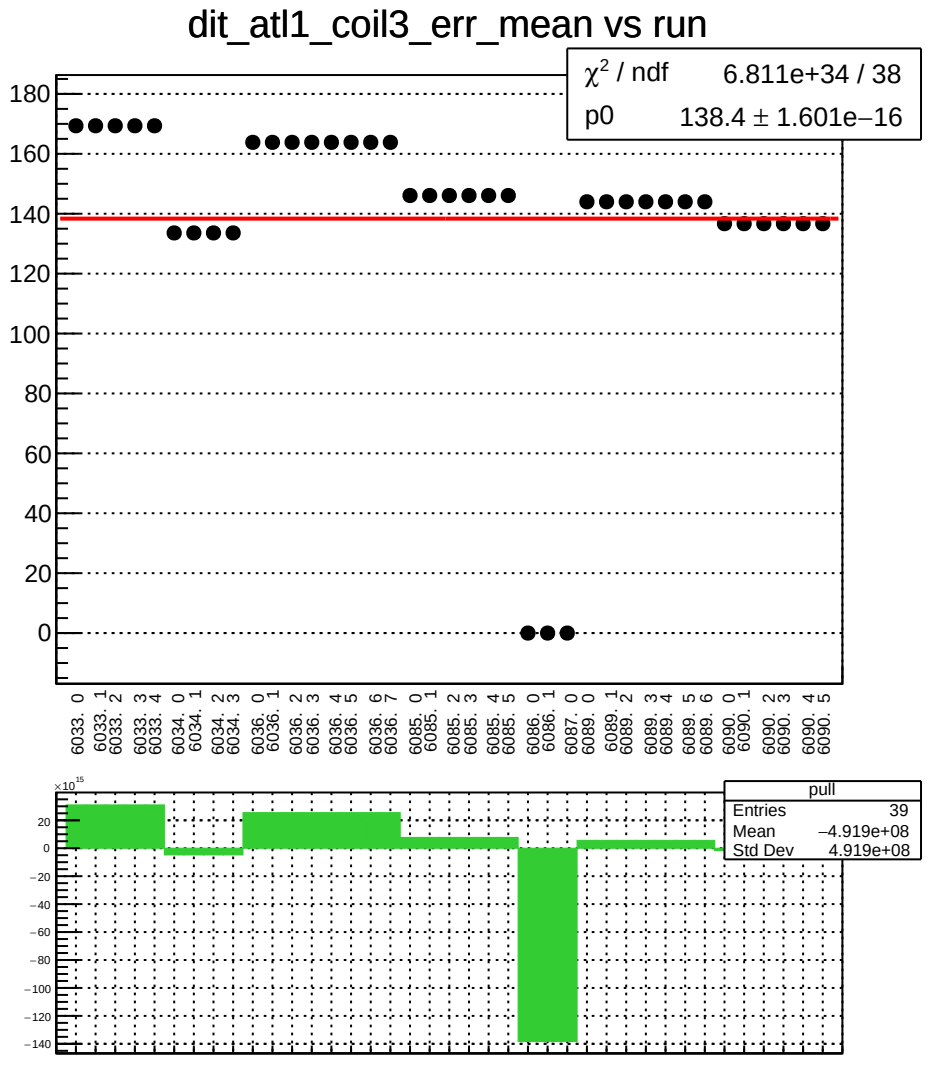

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

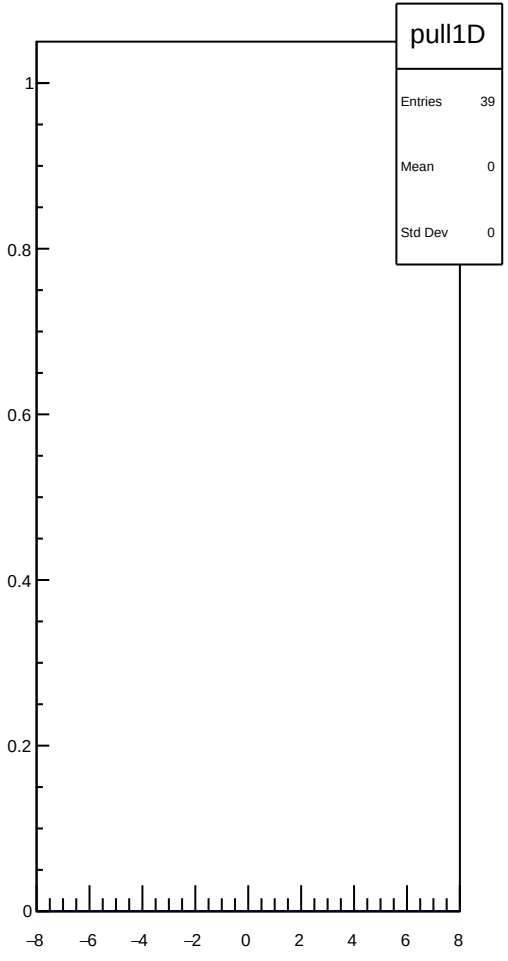

dit_usr_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

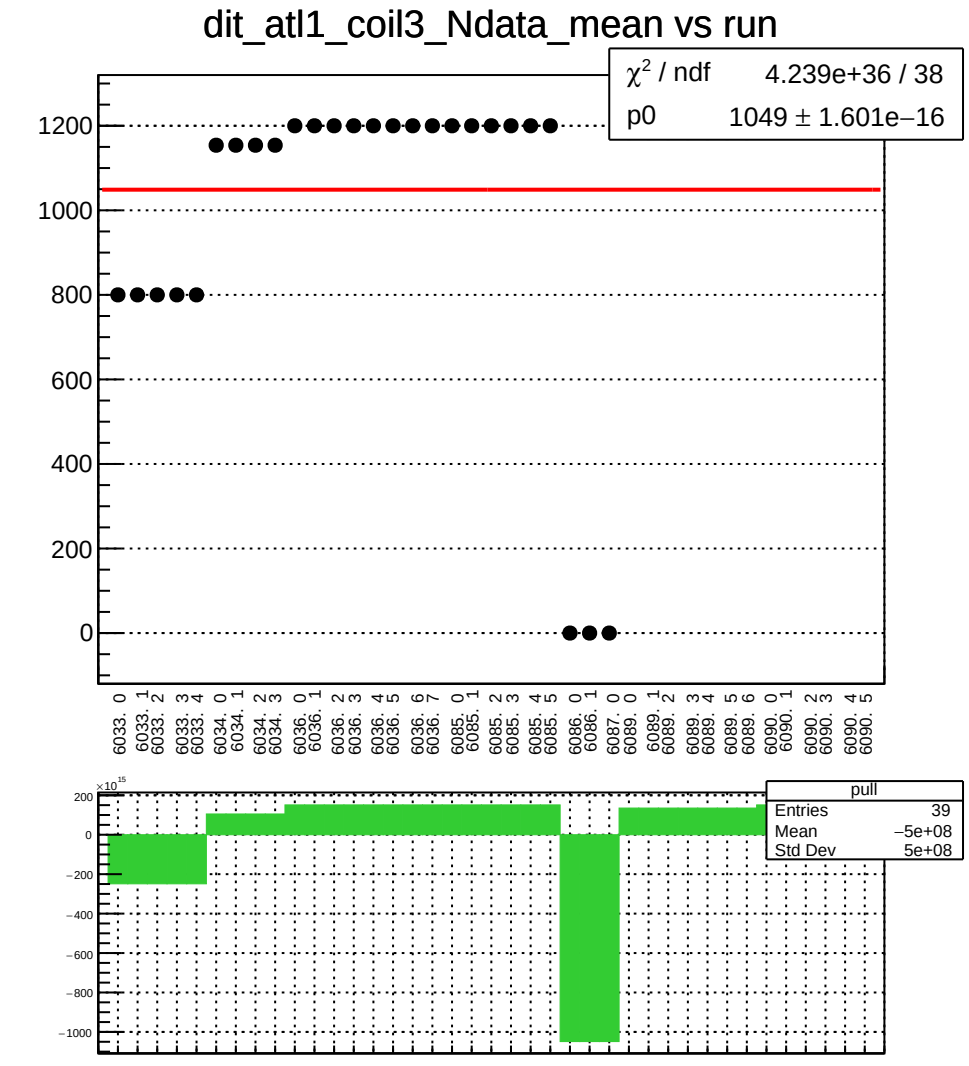

dit_atl1_coil3_mean vs run
χ² / ndf 6.426e+36 / 38
p0 −1291 ± 1.601e−16
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

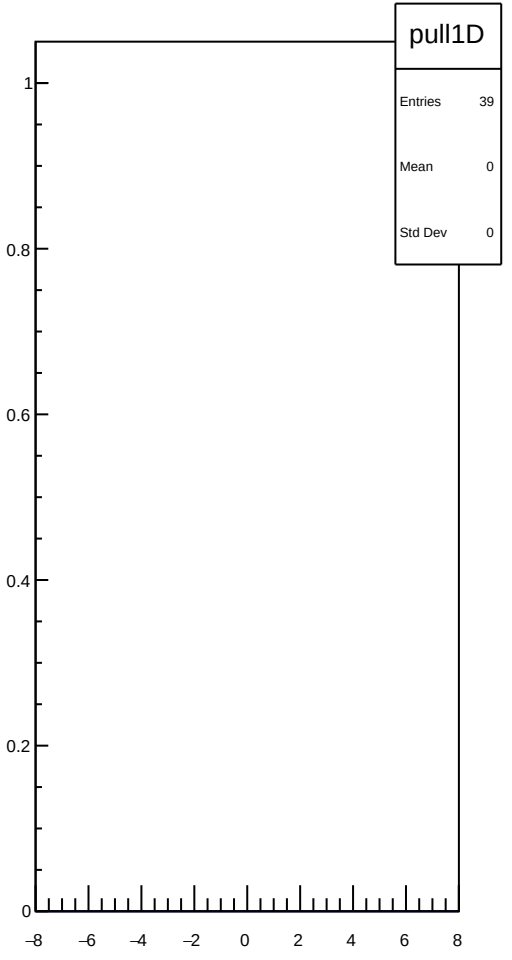

×10¹⁵
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 39
Mean −1.365e+08
Std Dev 1.365e+08

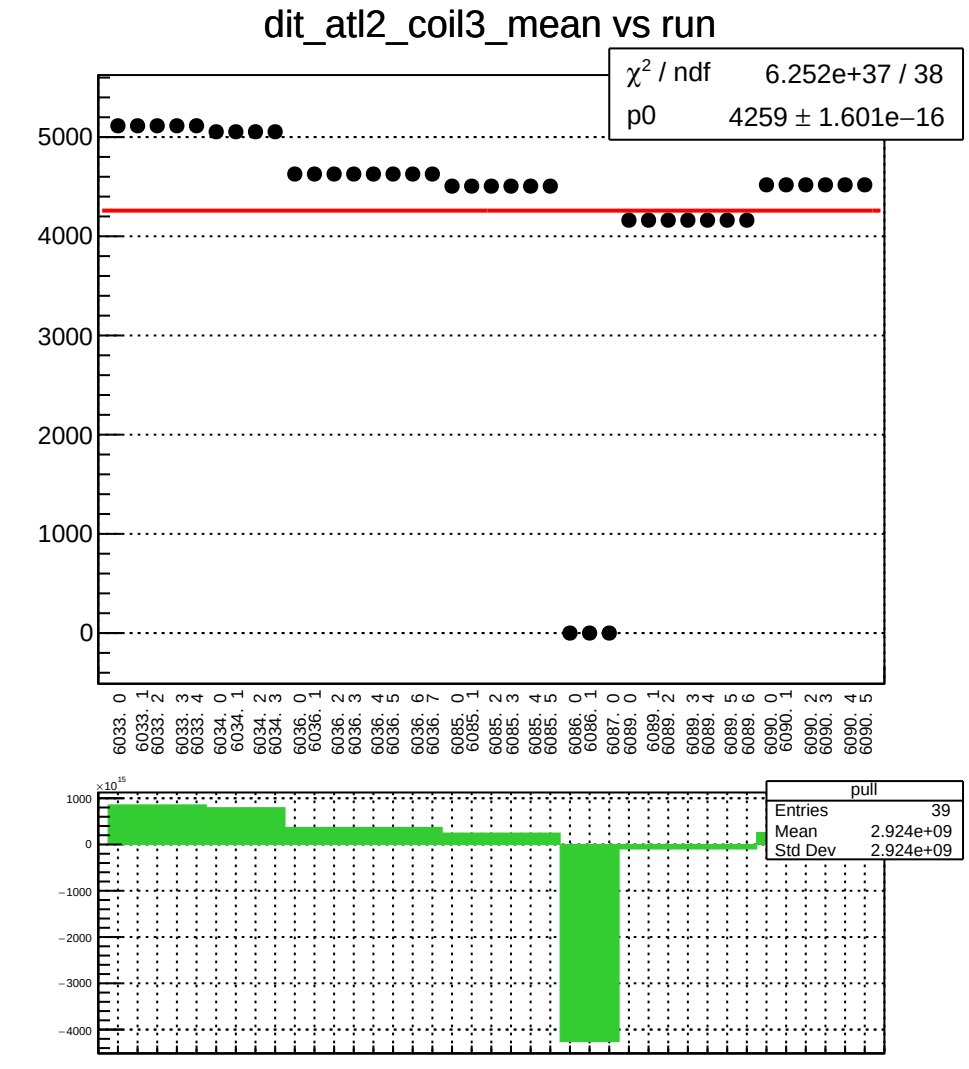

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

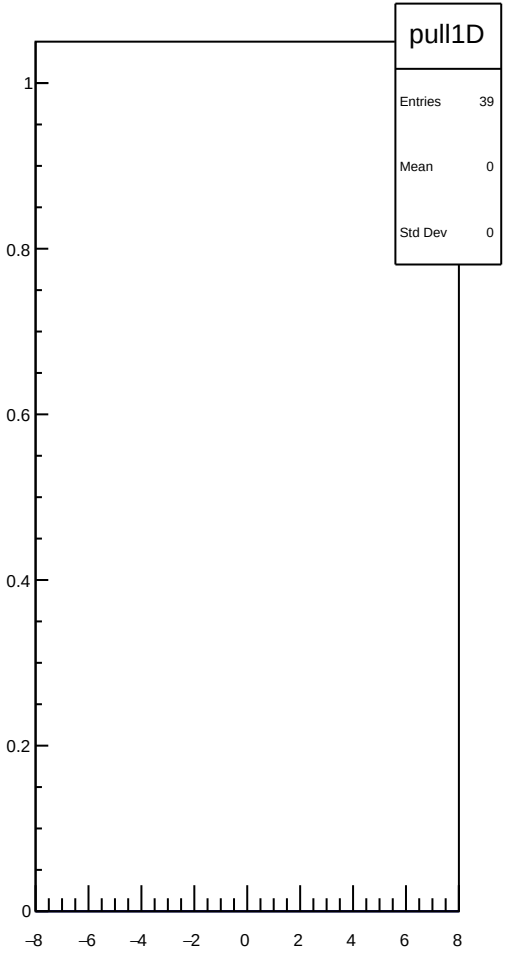

dit_atl1_coil3_err_mean vs run
χ² / ndf 6.811e+34 / 38
p0 138.4 ± 1.601e−16
pull
Entries 39
Mean −4.919e+08
Std Dev 4.919e+08

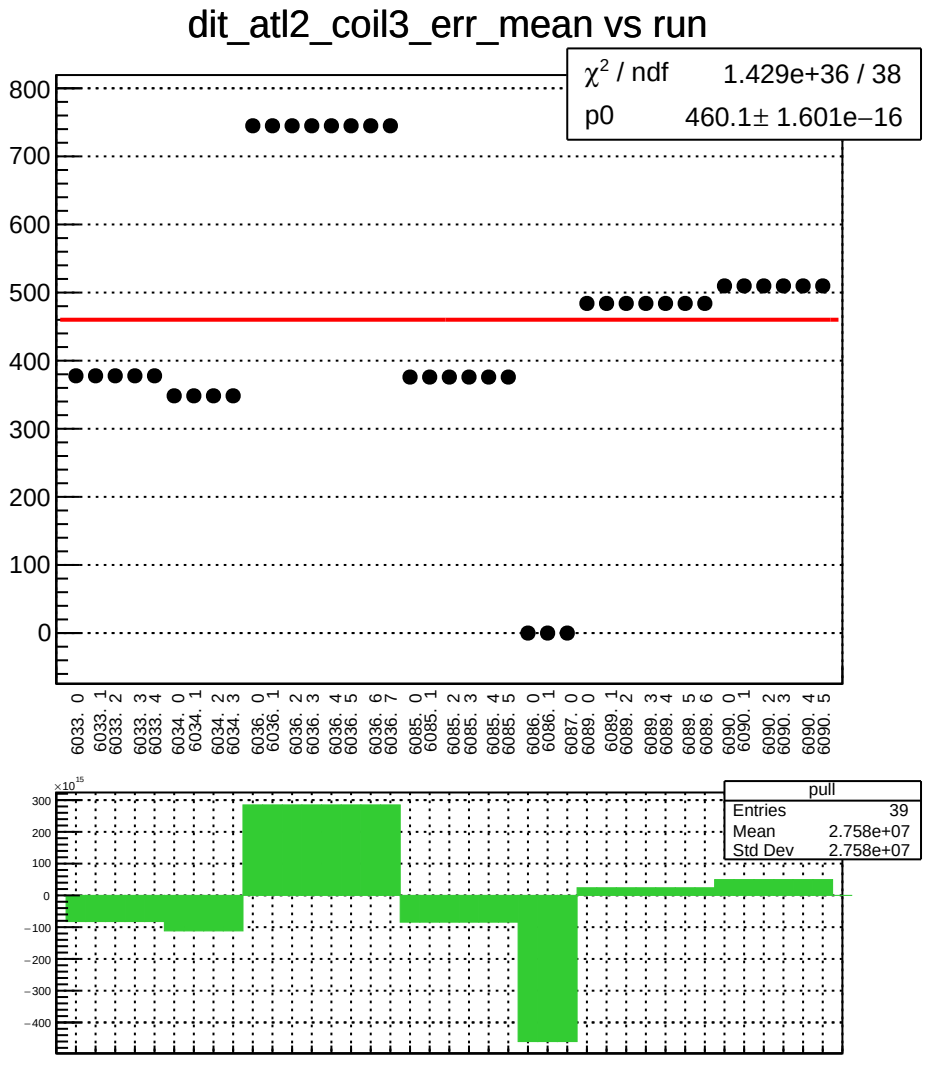

pull1D
Entries 39
Mean 0
Std Dev 0

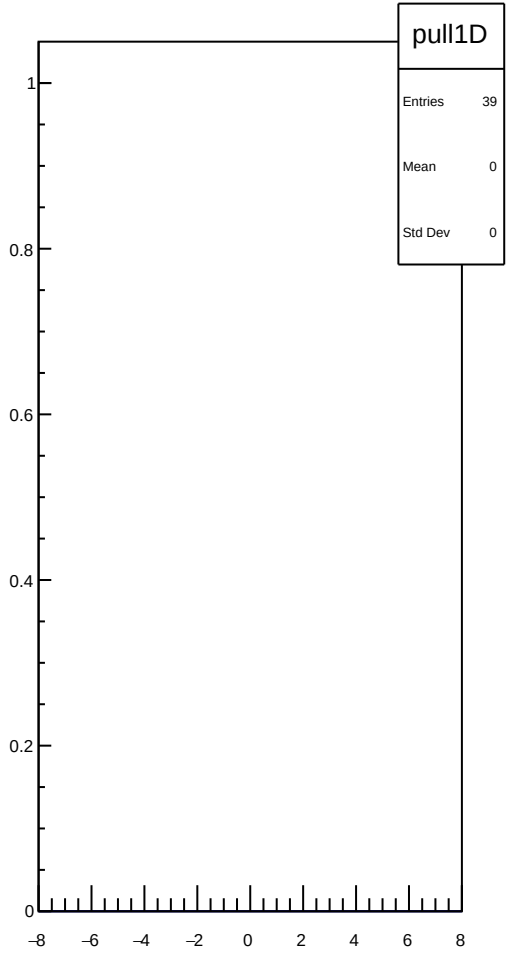

dit_atl1_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

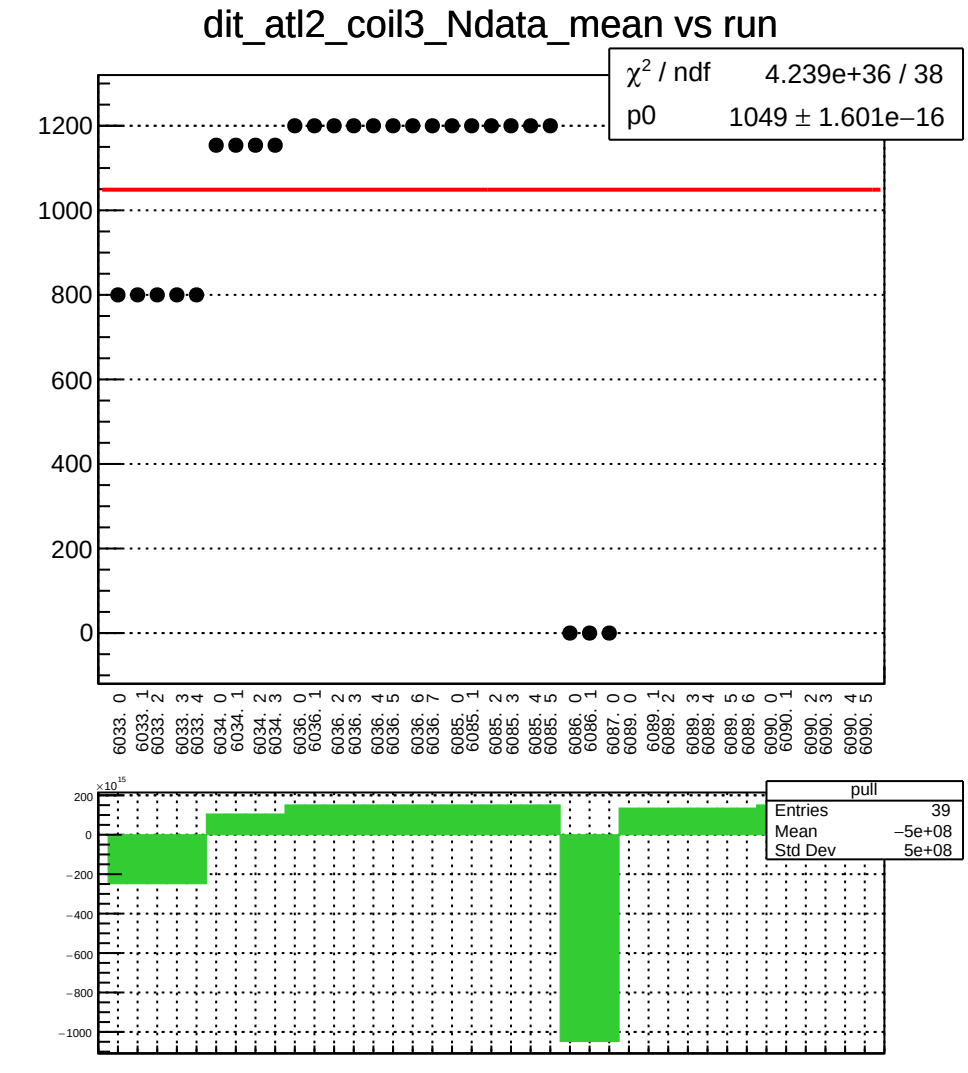

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

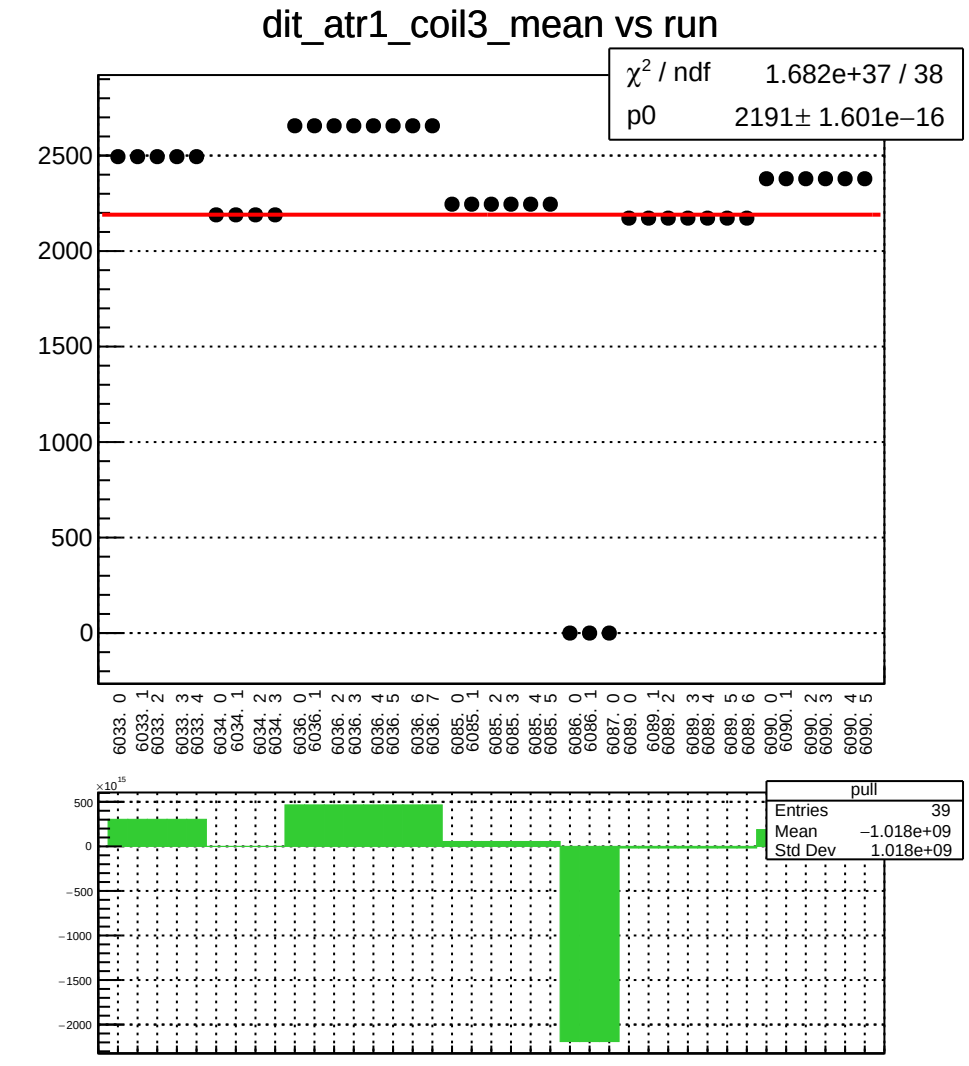

dit_atl2_coil3_mean vs run
χ² / ndf 6.252e+37 / 38
p0 4259 ± 1.601e−16
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 2.924e+09
Std Dev 2.924e+09


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


dit_atl2_coil3_err_mean vs run
χ² / ndf 1.429e+36 / 38
p0 460.1± 1.601e−16
pull
Entries 39
Mean 2.758e+07
Std Dev 2.758e+07


pull1D
Entries 39
Mean 0
Std Dev 0


dit_atl2_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_coil3_mean vs run
χ² / ndf 1.682e+37 / 38
p0 2191± 1.601e−16
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
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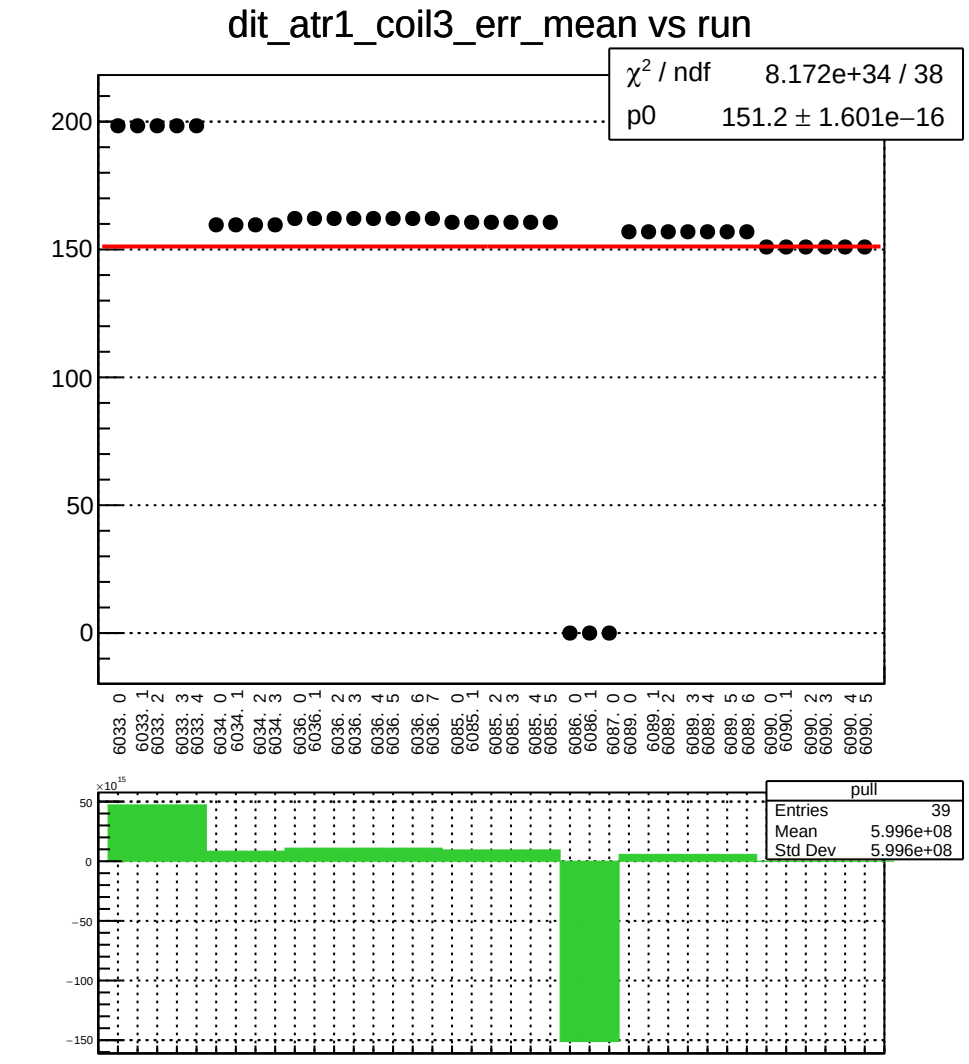
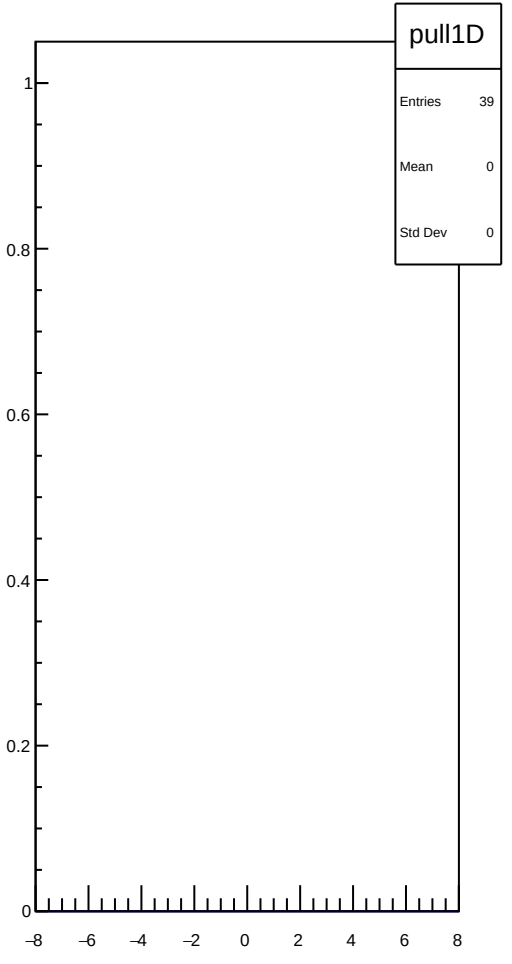
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
500
0
−500
−1000
−1500
−2000
pull
Entries 39
Mean −1.018e+09
Std Dev 1.018e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_coil3_err_mean vs run
χ² / ndf 8.172e+34 / 38
p0 151.2 ± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
pull
Entries 39
Mean 5.996e+08
Std Dev 5.996e+08


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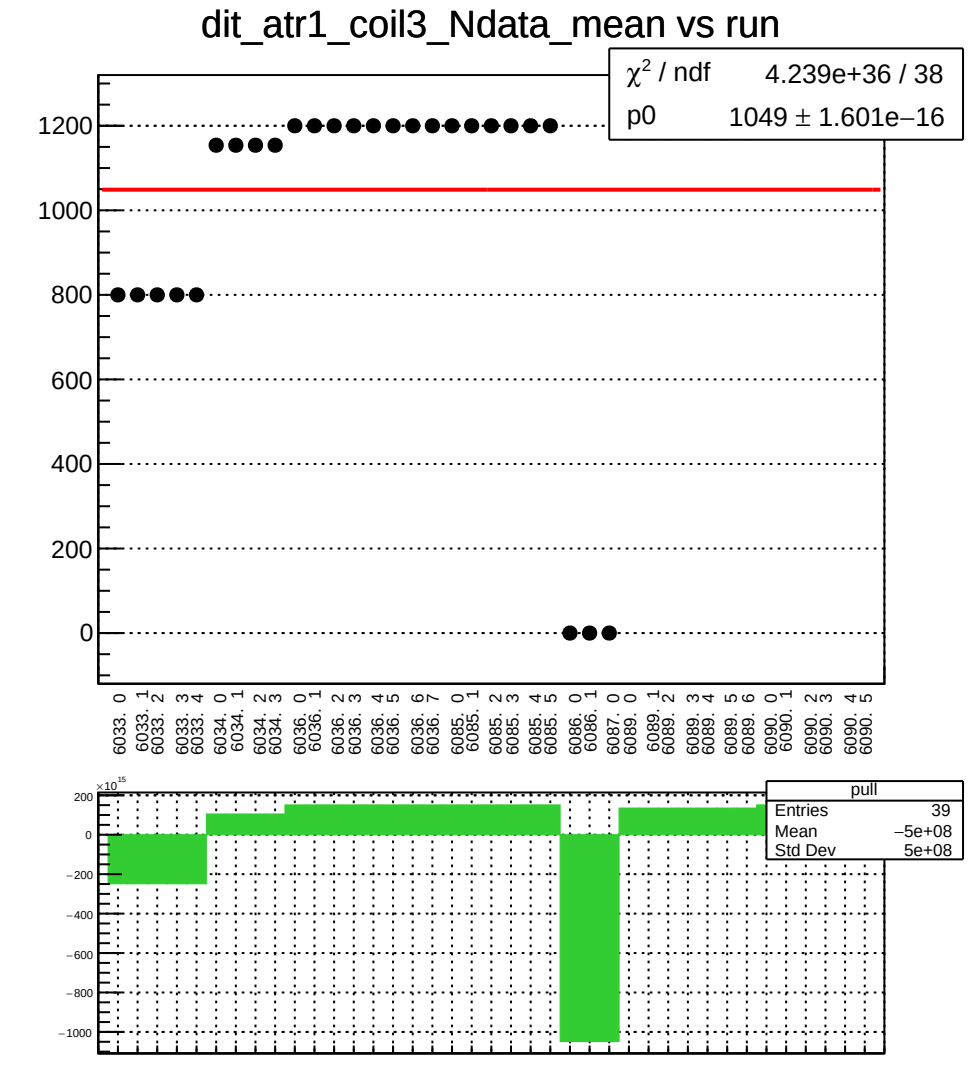
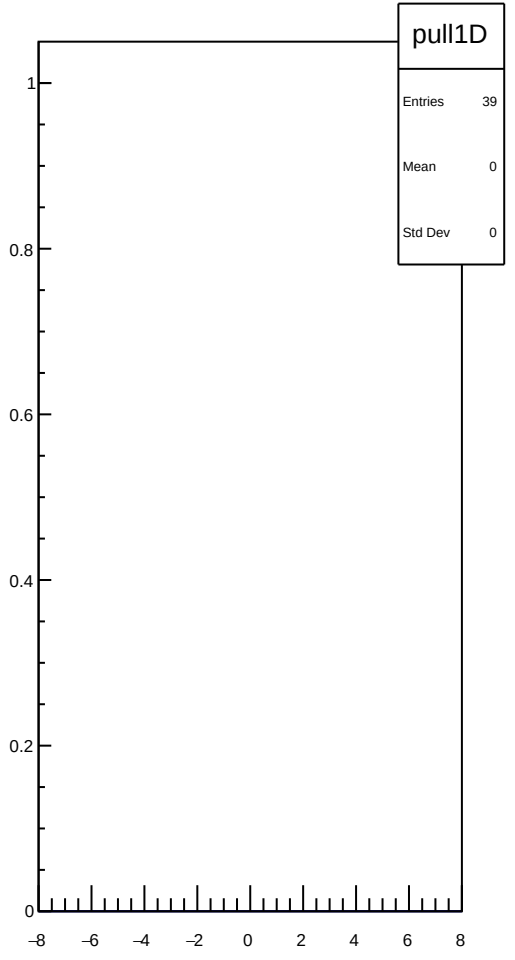
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08


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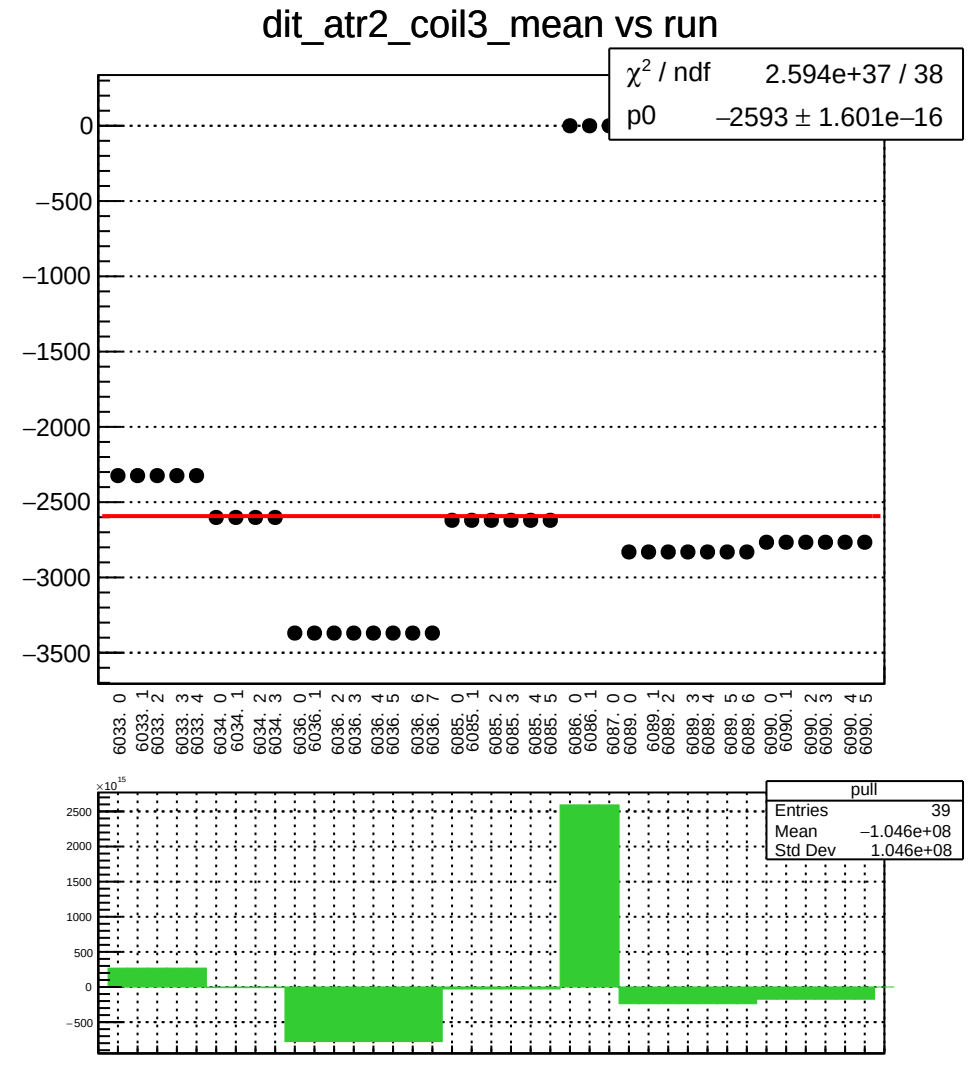
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_coil3_mean vs run
χ² / ndf 2.594e+37 / 38
p0 −2593 ± 1.601e−16
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
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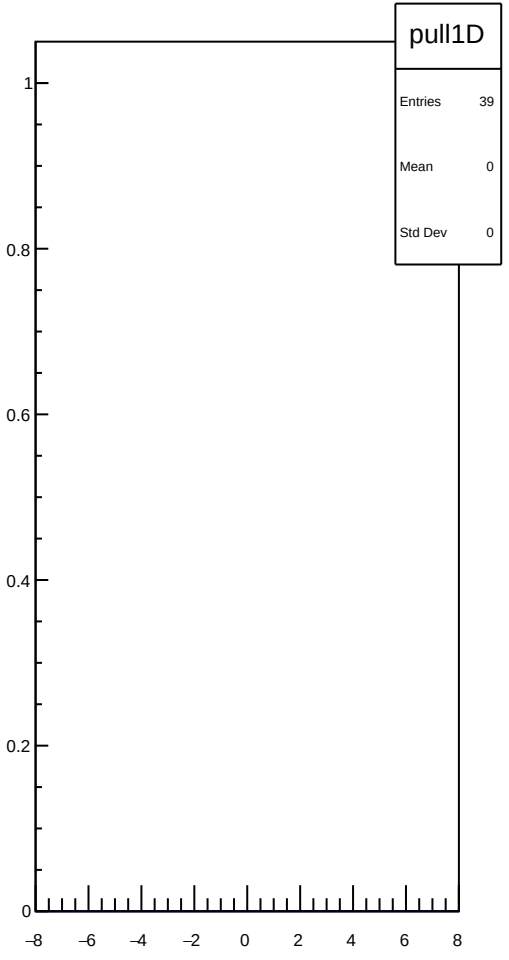
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
2500
2000
1500
1000
500
0
−500
pull
Entries 39
Mean −1.046e+08
Std Dev 1.046e+08


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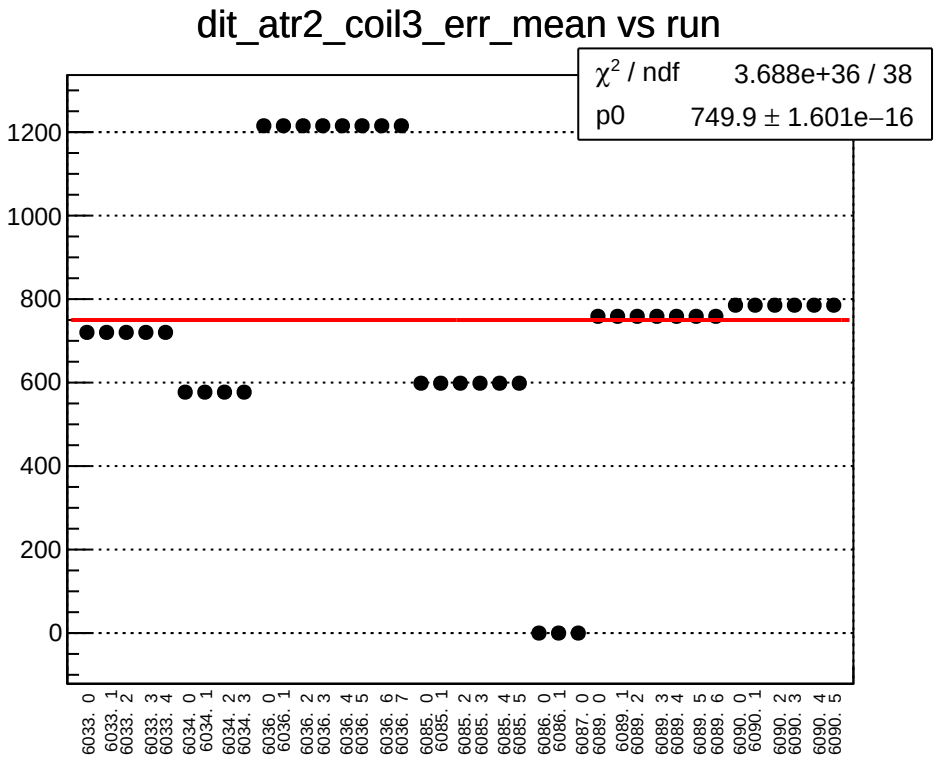
2
4
6
8


dit_atr2_coil3_err_mean vs run
χ² / ndf 3.688e+36 / 38
p0 749.9 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
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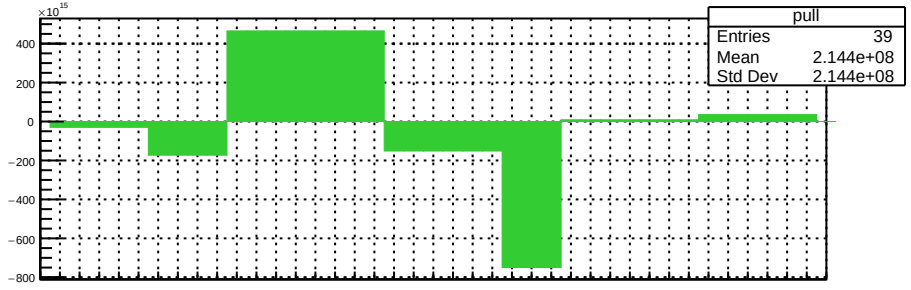
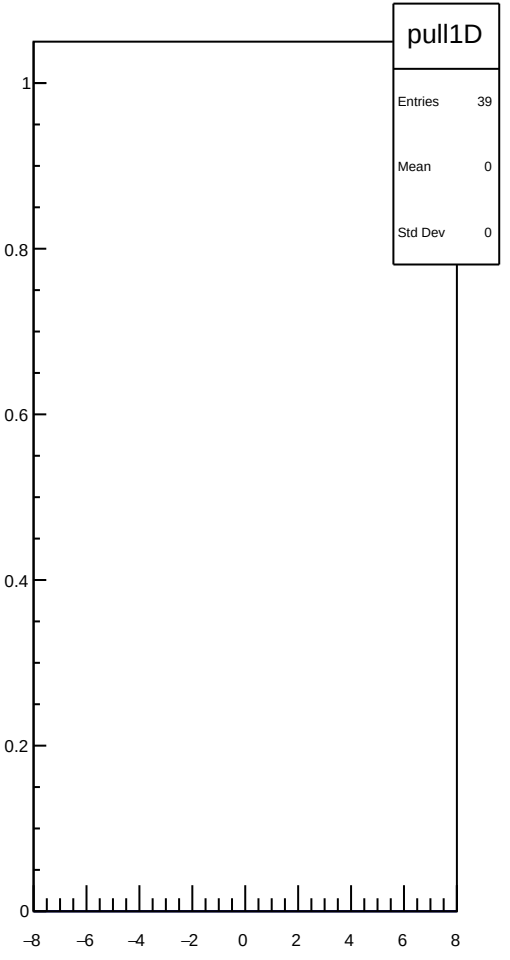
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean 2.144e+08
Std Dev 2.144e+08


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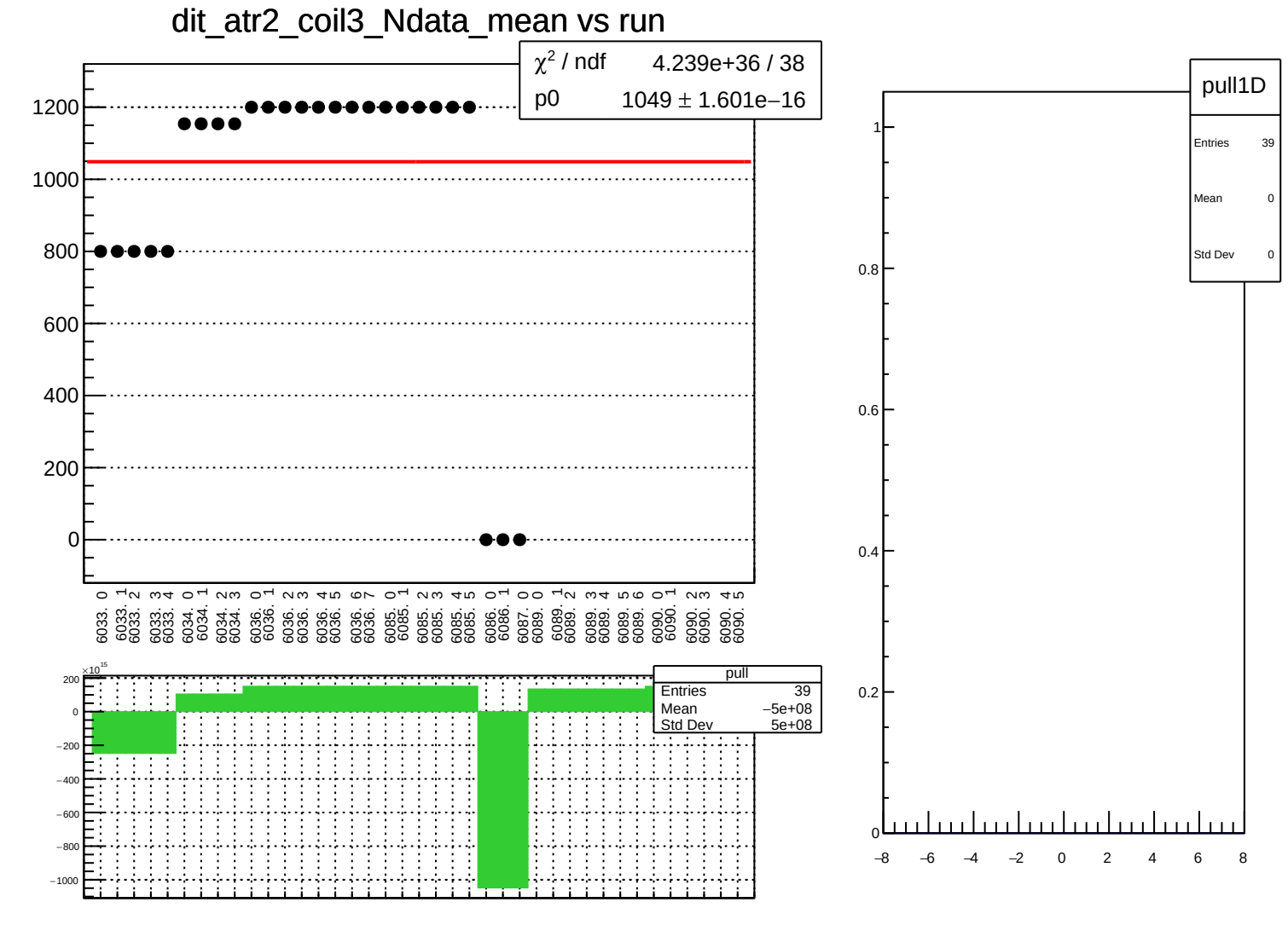
2
4
6
8


dit_atr2_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
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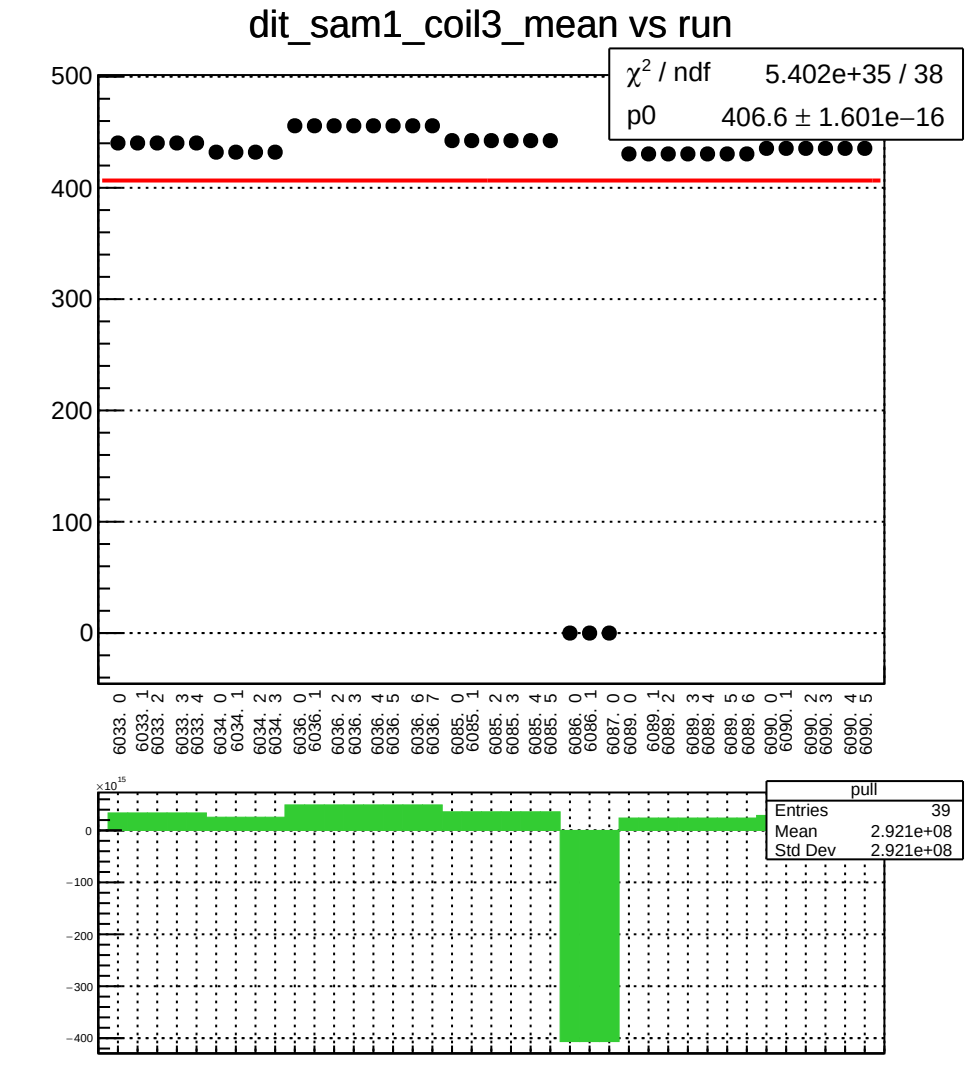
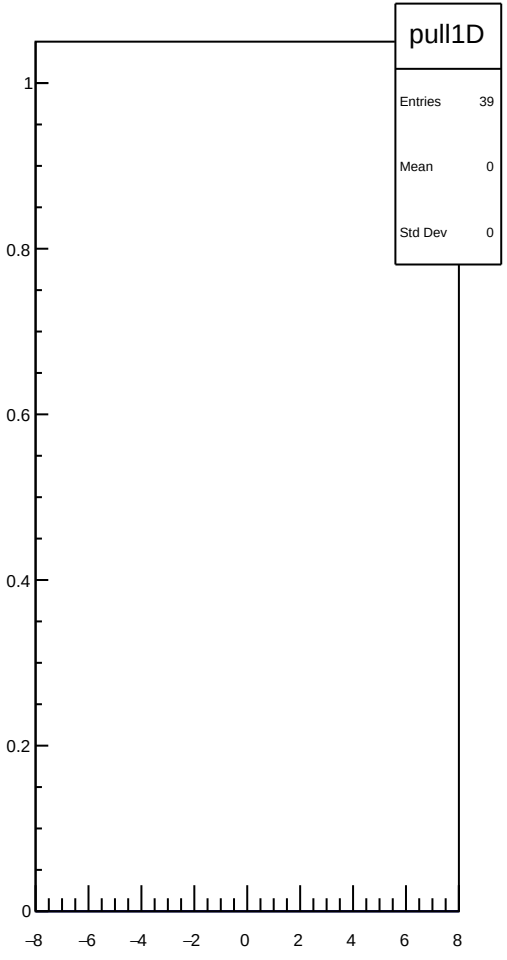
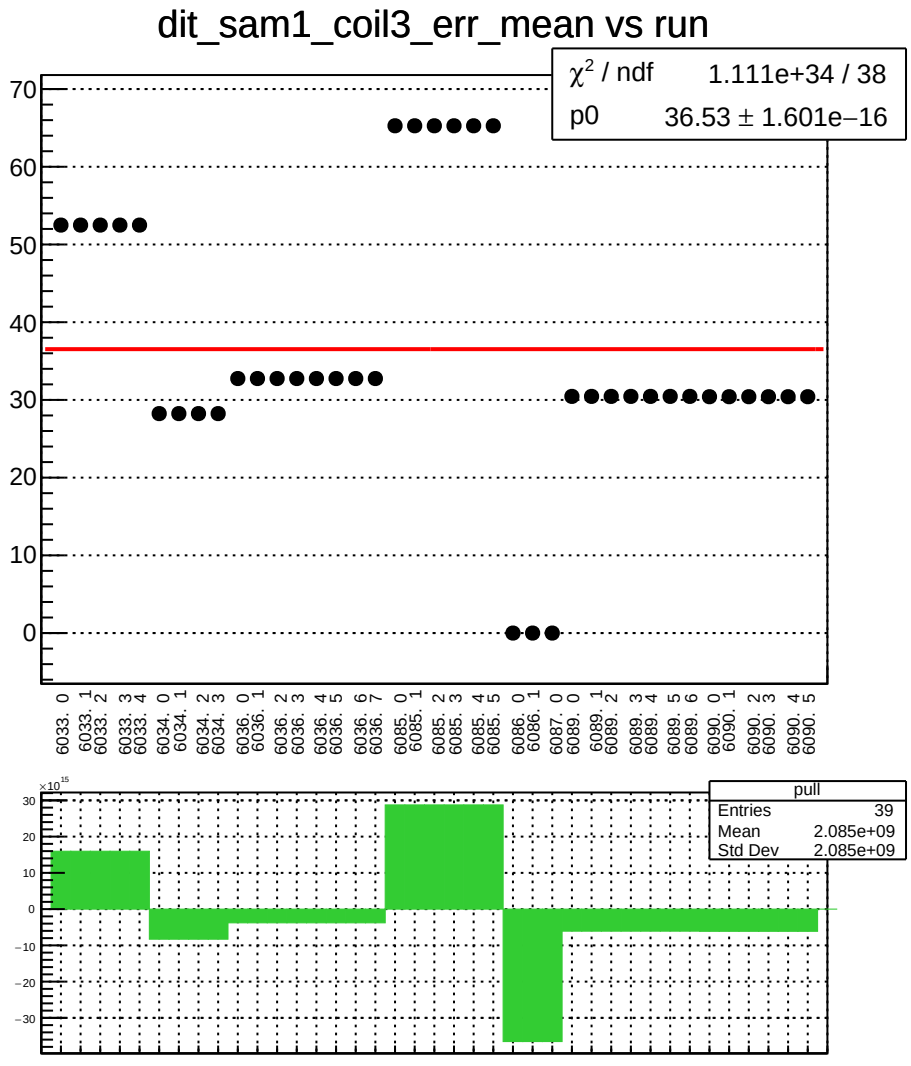
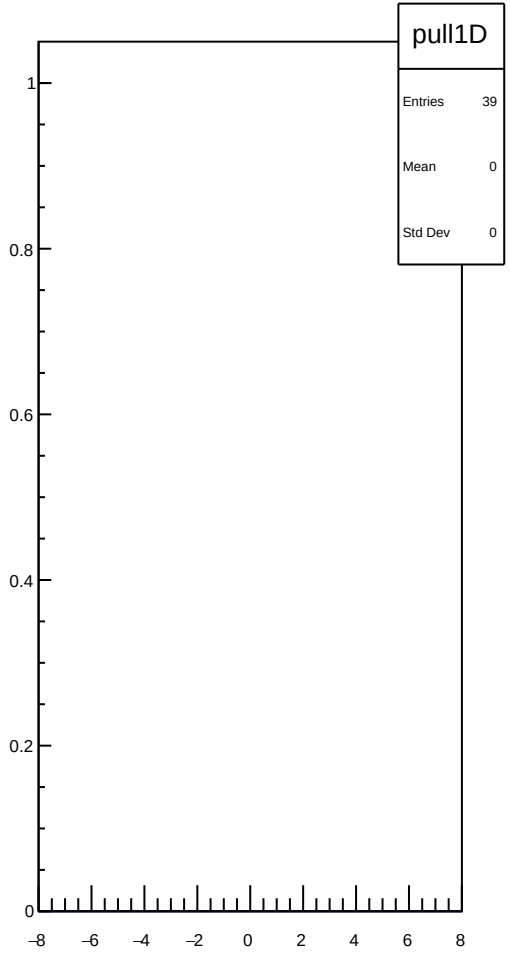
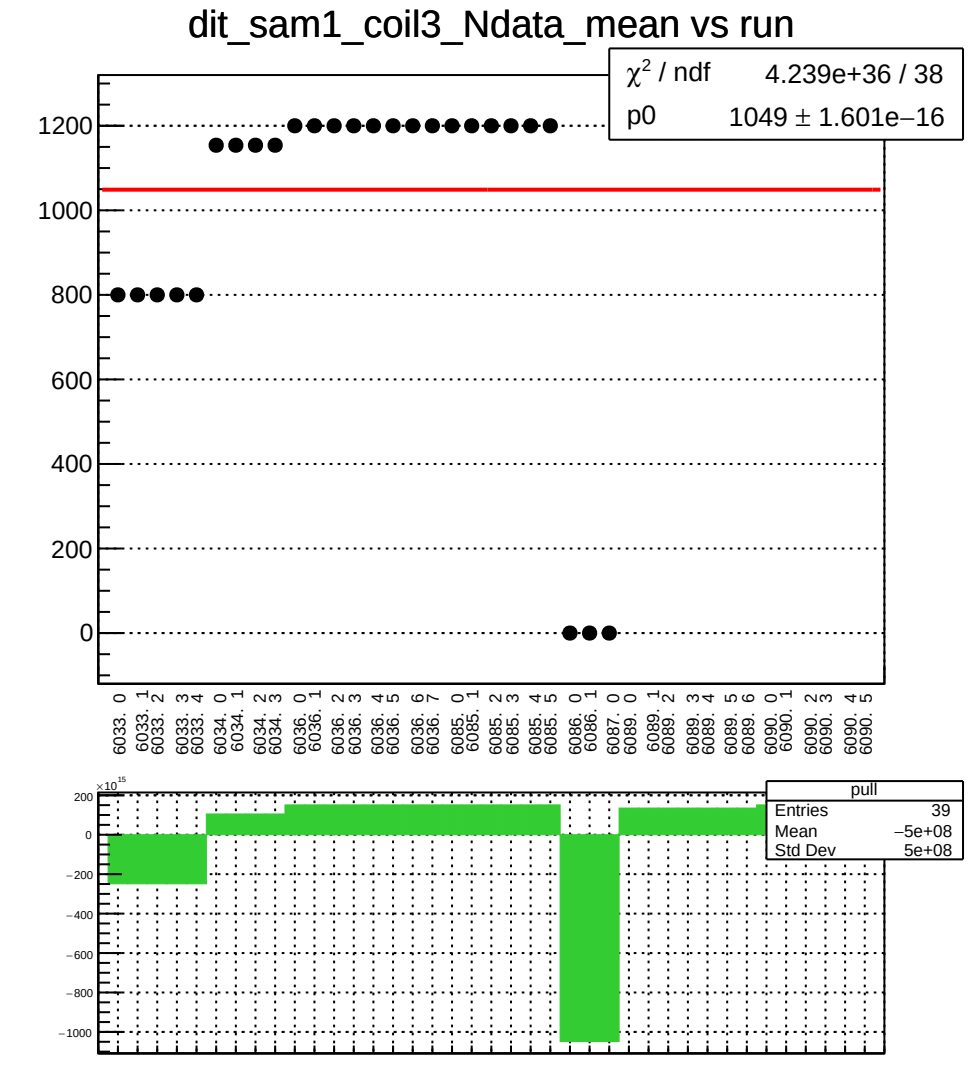
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

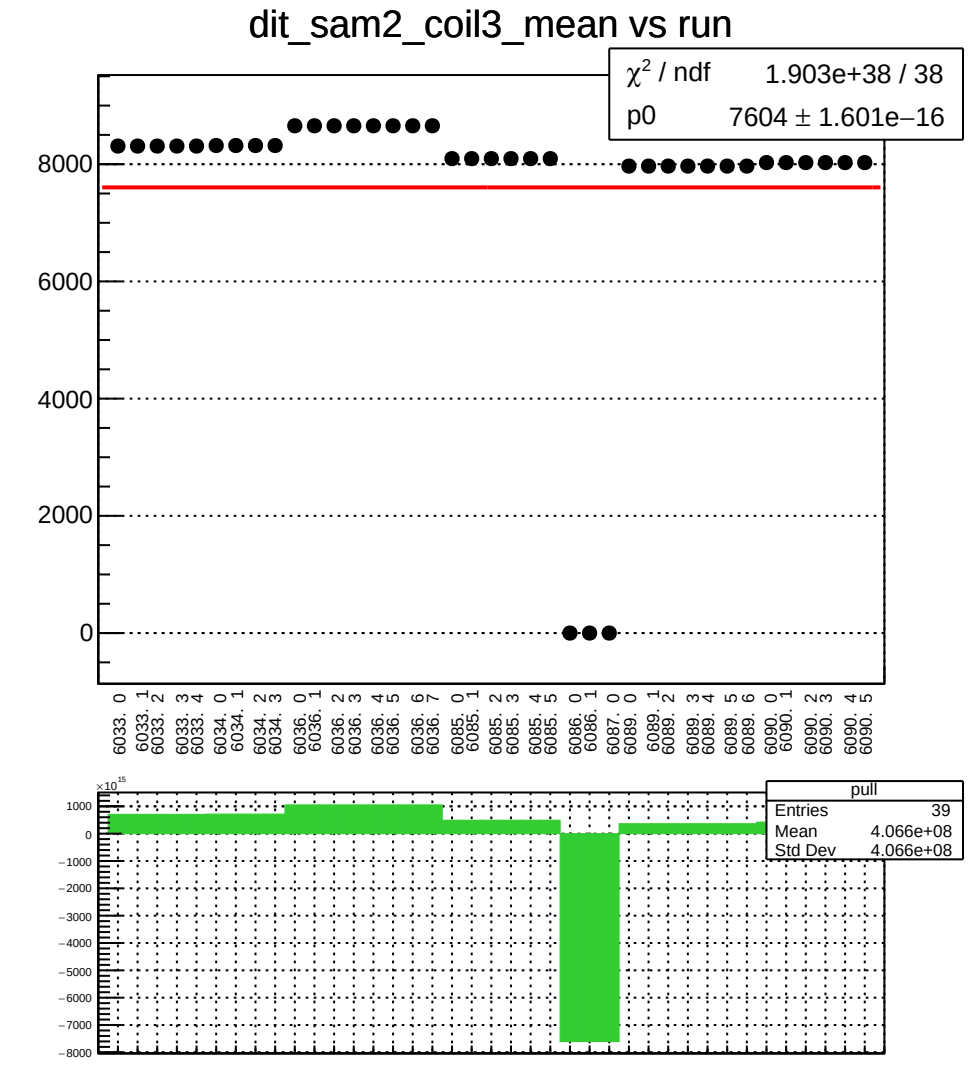

dit_sam1_coil3_mean vs run
χ² / ndf 5.402e+35 / 38
p0 406.6 ± 1.601e−16
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−100
−200
−300
−400
pull
Entries 39
Mean 2.921e+08
Std Dev 2.921e+08

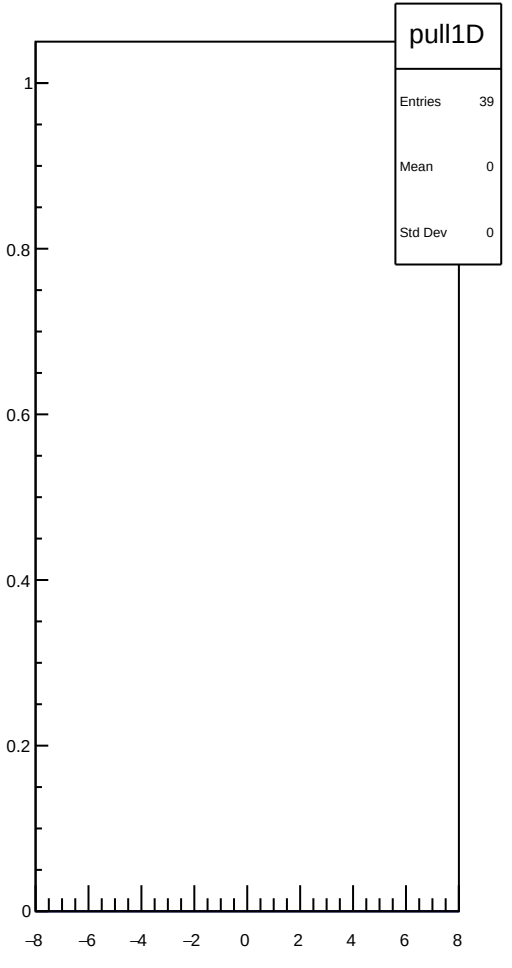

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

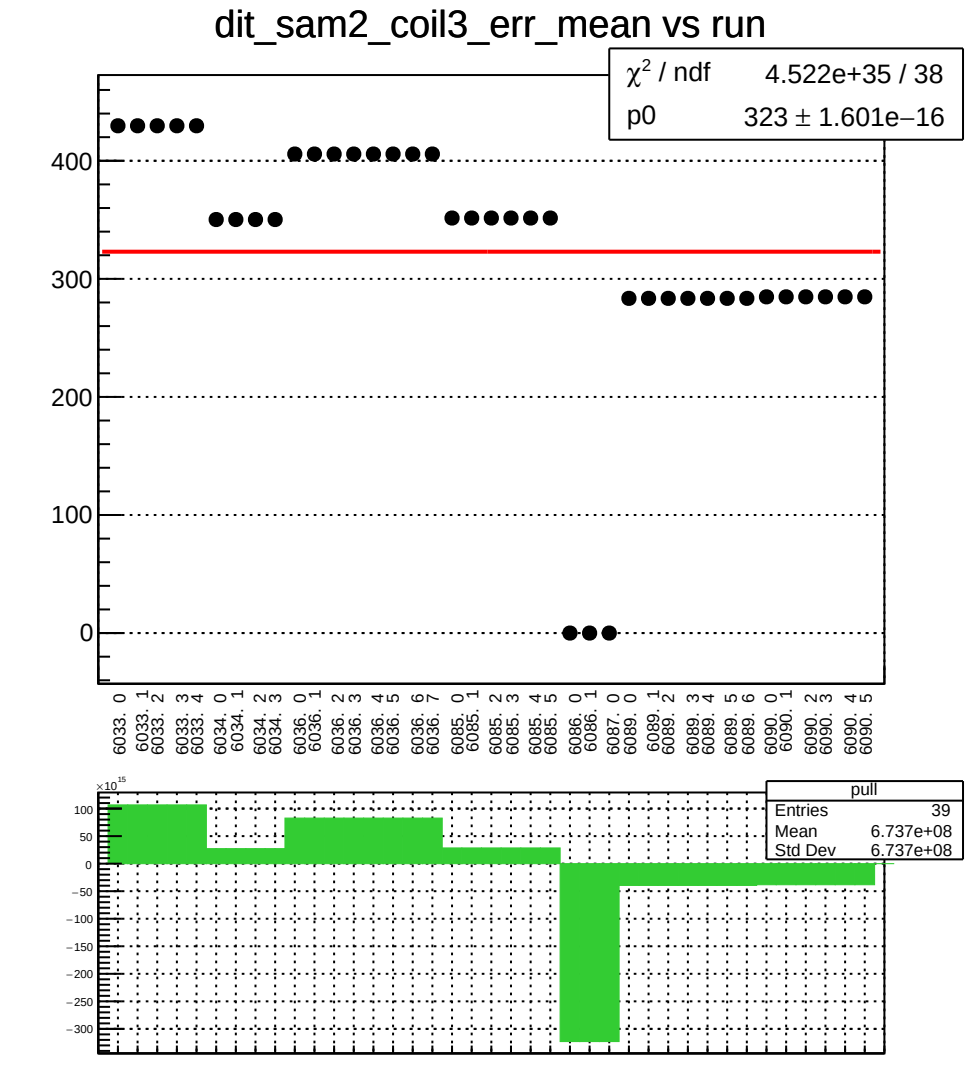

dit_sam1_coil3_err_mean vs run
χ² / ndf 1.111e+34 / 38
p0 36.53 ± 1.601e−16
pull
Entries 39
Mean 2.085e+09
Std Dev 2.085e+09

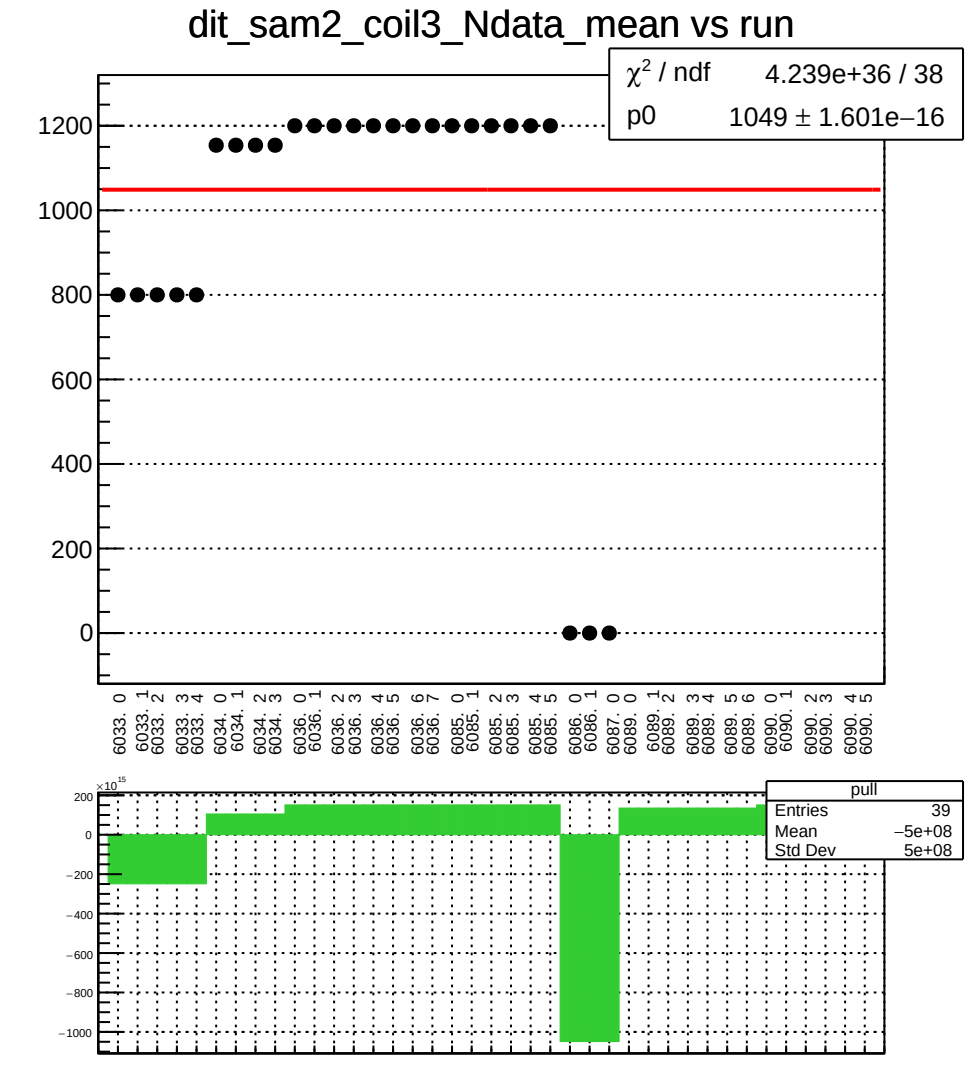

pull1D
Entries 39
Mean 0
Std Dev 0

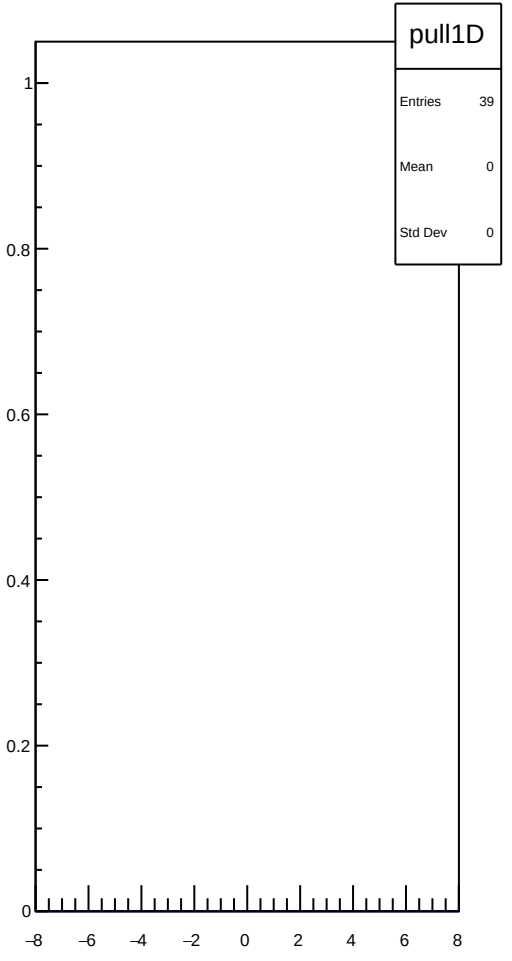

dit_sam1_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

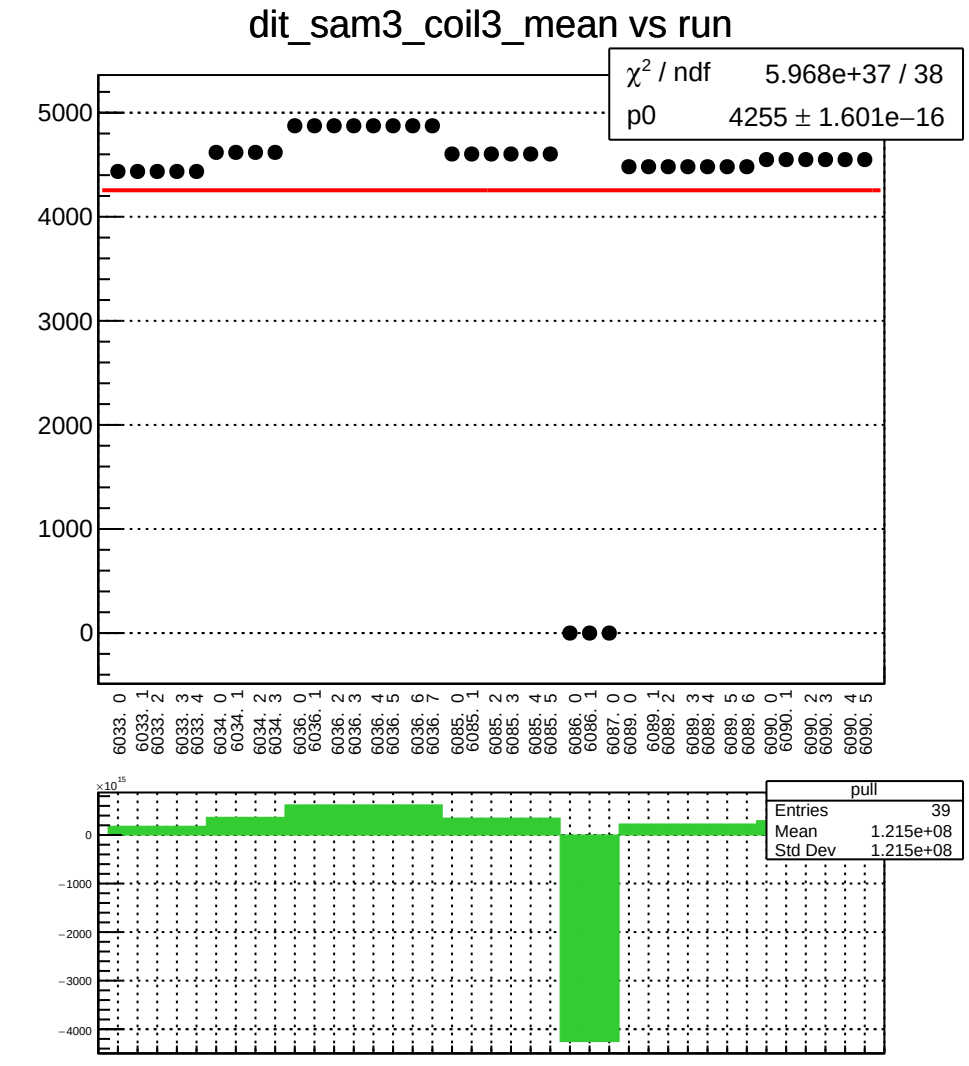

dit_sam2_coil3_mean vs run
χ² / ndf 1.903e+38 / 38
p0 7604 ± 1.601e−16
8000
6000
4000
2000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
−8000
pull
Entries 39
Mean 4.066e+08
Std Dev 4.066e+08

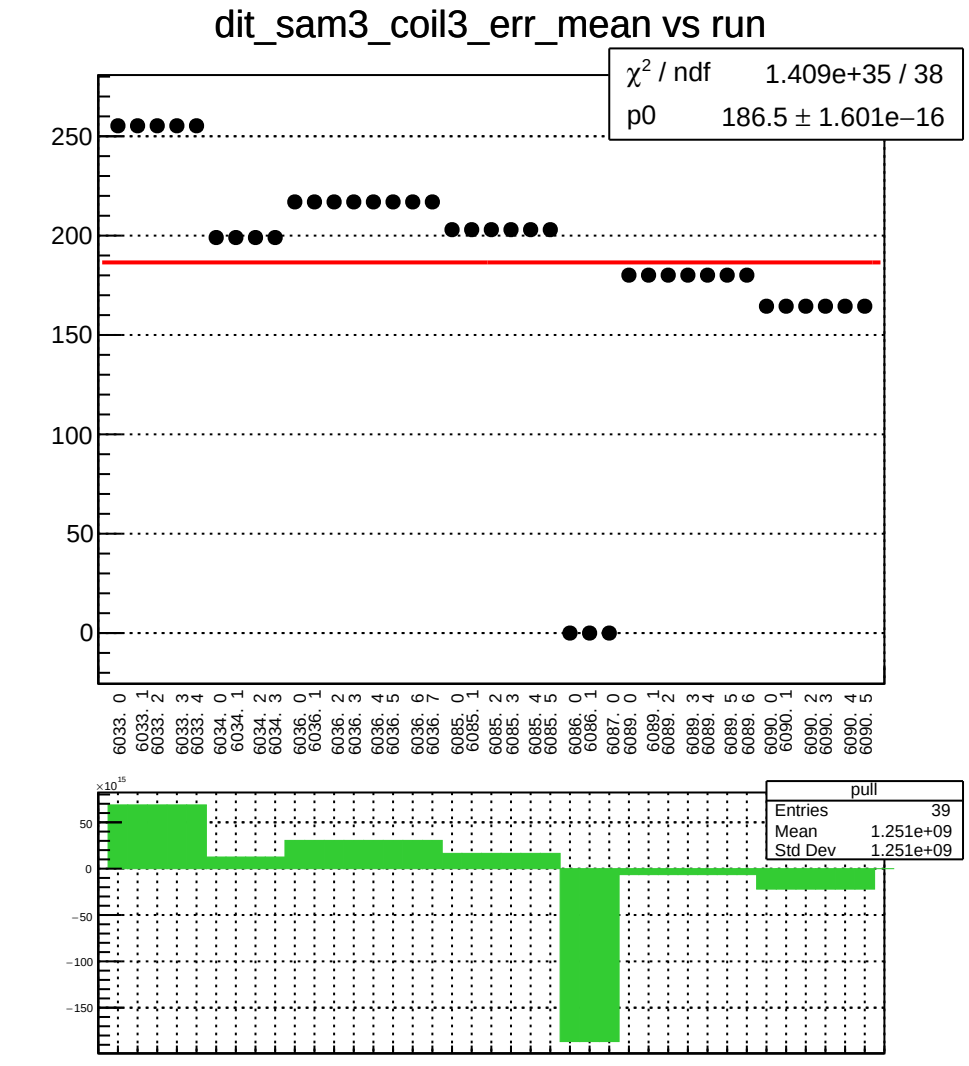

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

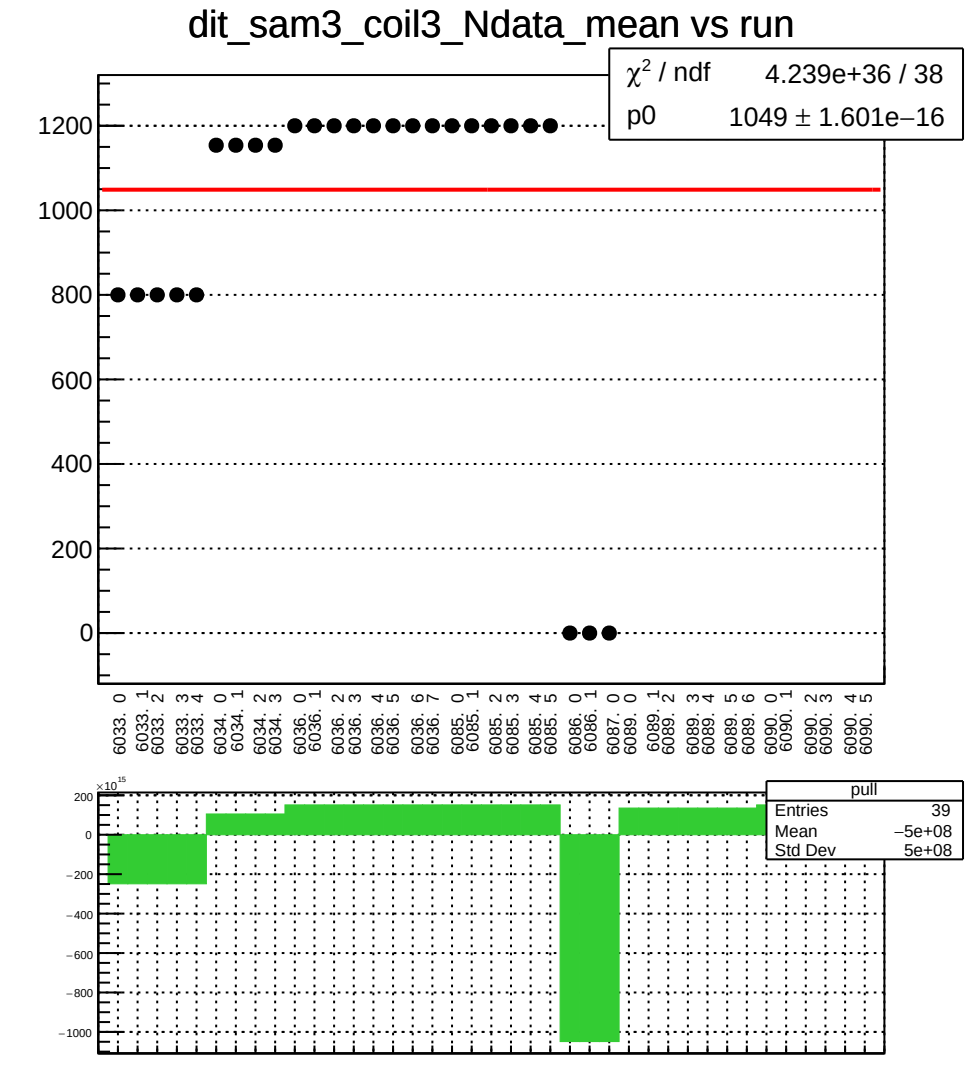

dit_sam2_coil3_err_mean vs run
χ² / ndf 4.522e+35 / 38
p0 323 ± 1.601e−16
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 39
Mean 6.737e+08
Std Dev 6.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

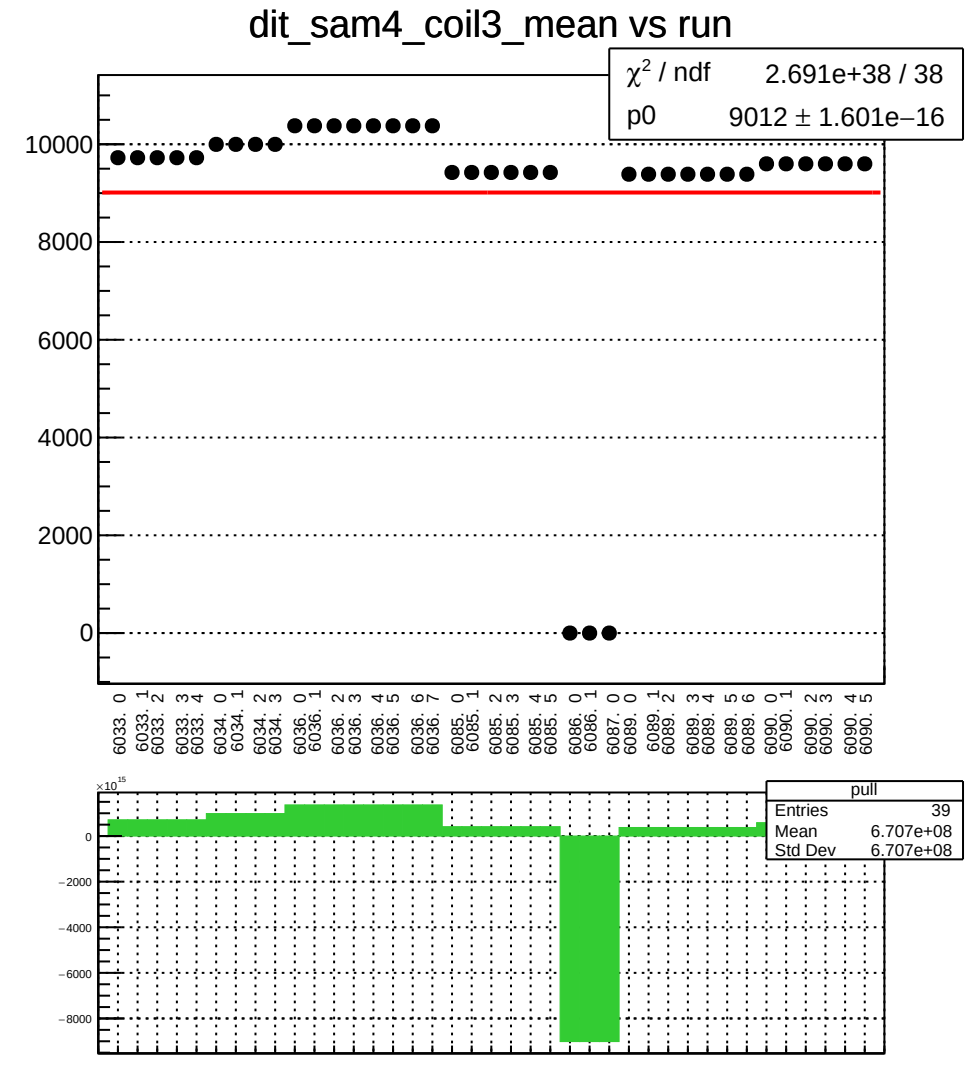

dit_sam2_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

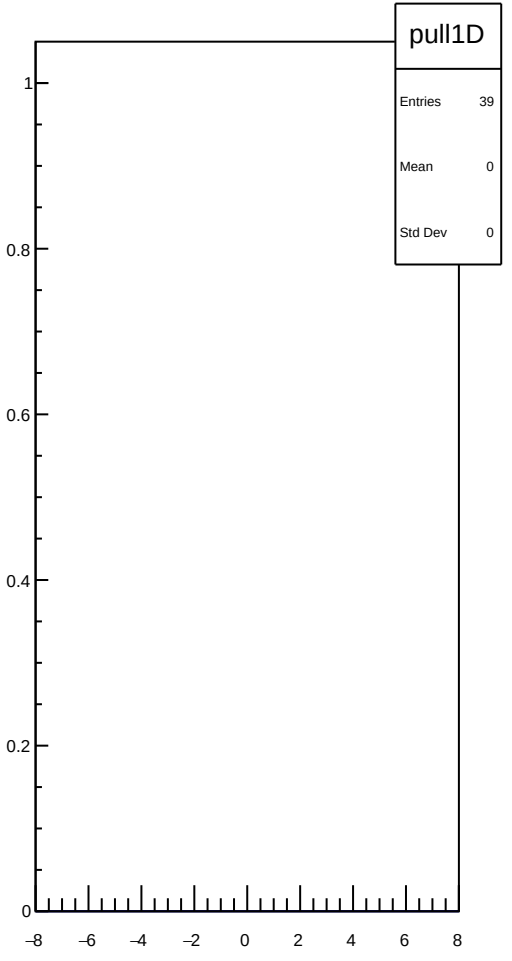

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_coil3_mean vs run
χ² / ndf 5.968e+37 / 38
p0 4255 ± 1.601e−16
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 1.215e+08
Std Dev 1.215e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_coil3_err_mean vs run
χ² / ndf 1.409e+35 / 38
p0 186.5 ± 1.601e−16
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
pull
Entries 39
Mean 1.251e+09
Std Dev 1.251e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam4_coil3_mean vs run
χ² / ndf 2.691e+38 / 38
p0 9012 ± 1.601e−16
10000
8000
6000
4000
2000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−2000
−4000
−6000
−8000
pull
Entries 39
Mean 6.707e+08
Std Dev 6.707e+08


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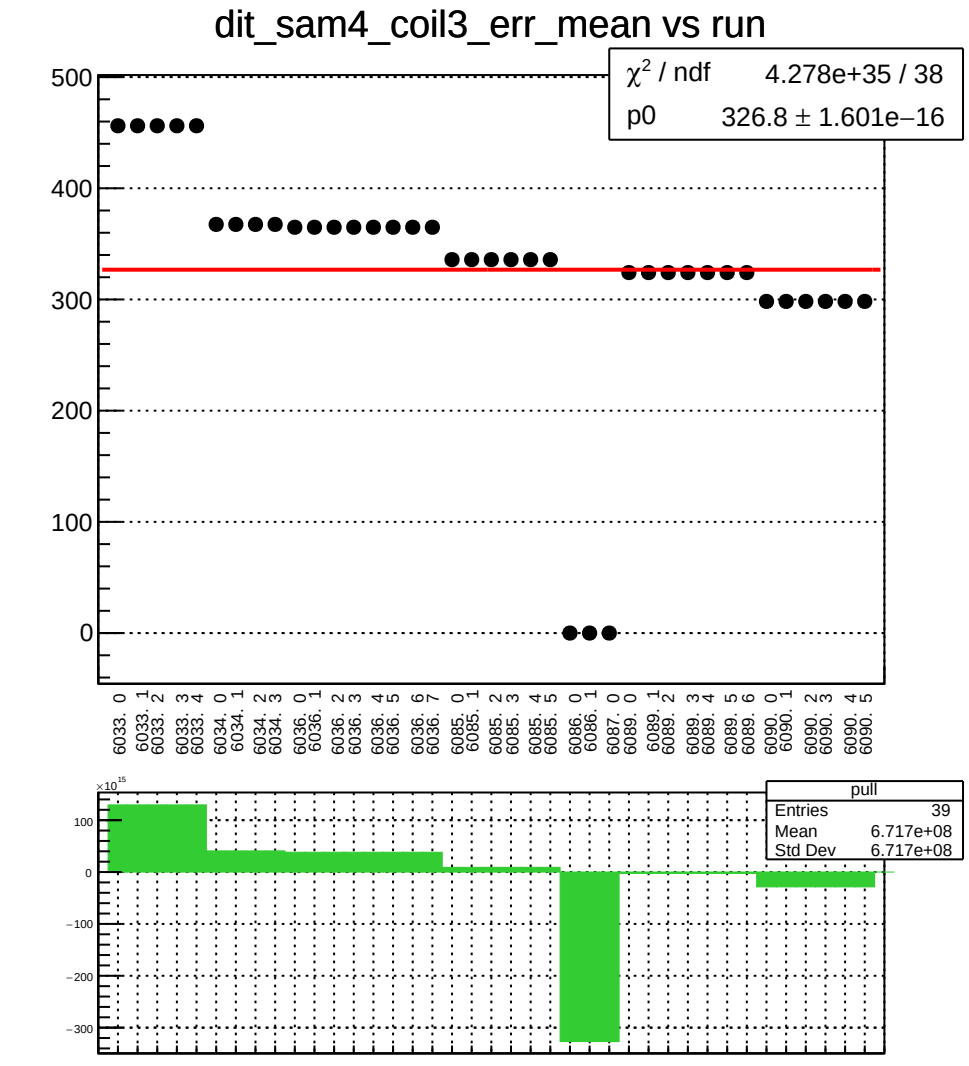
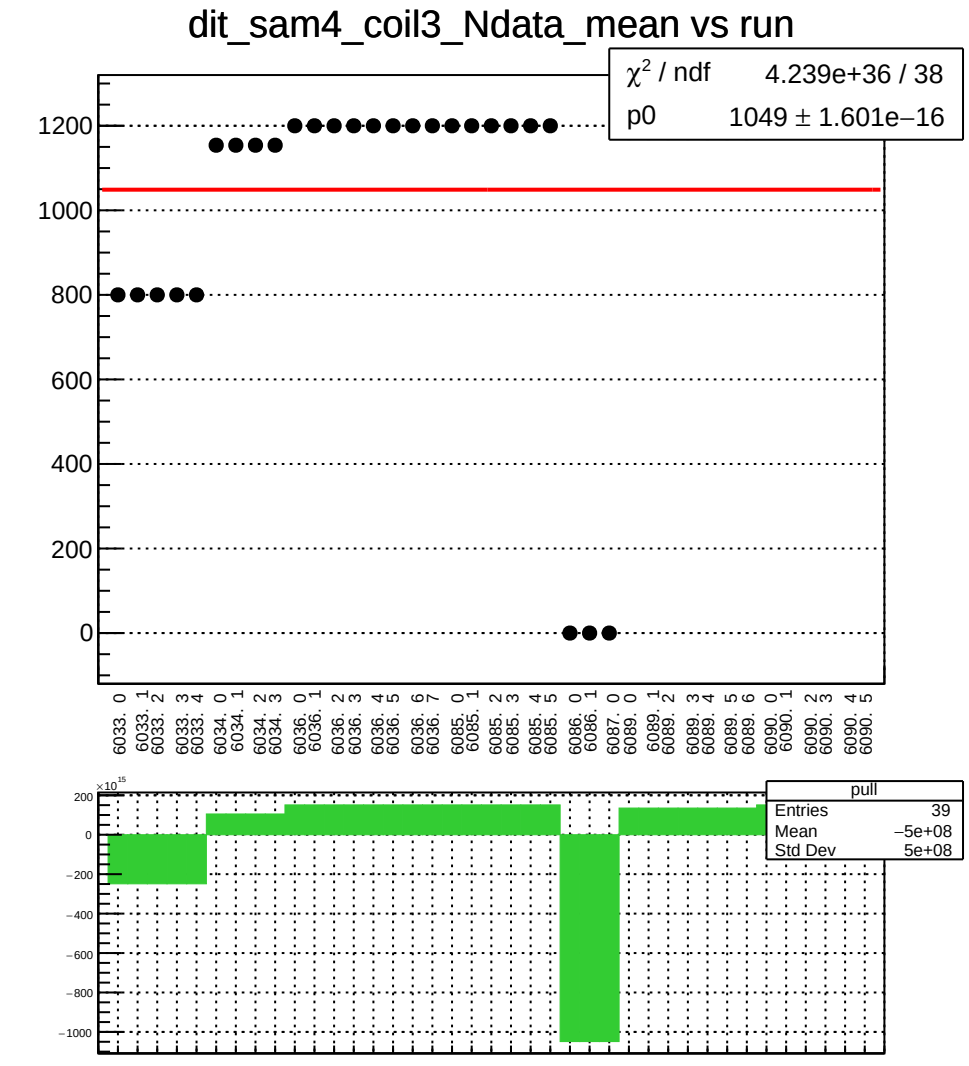
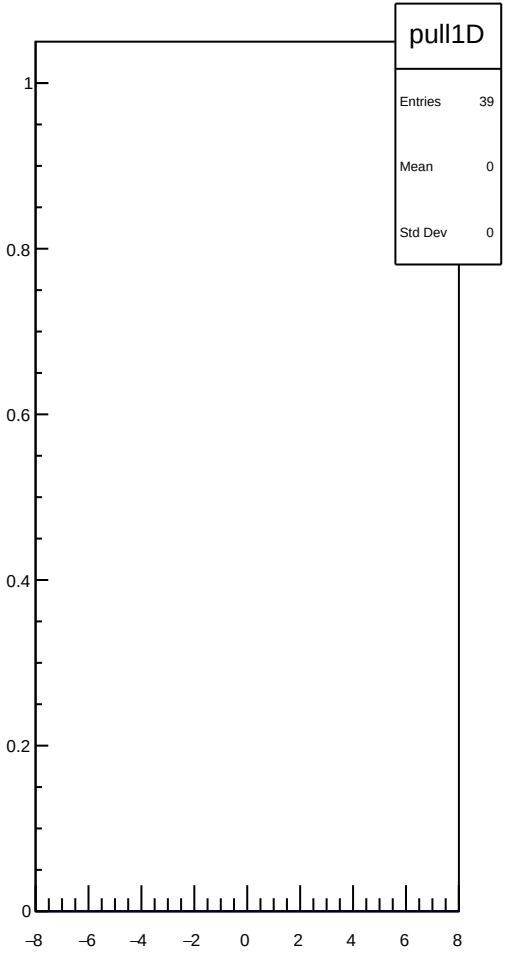
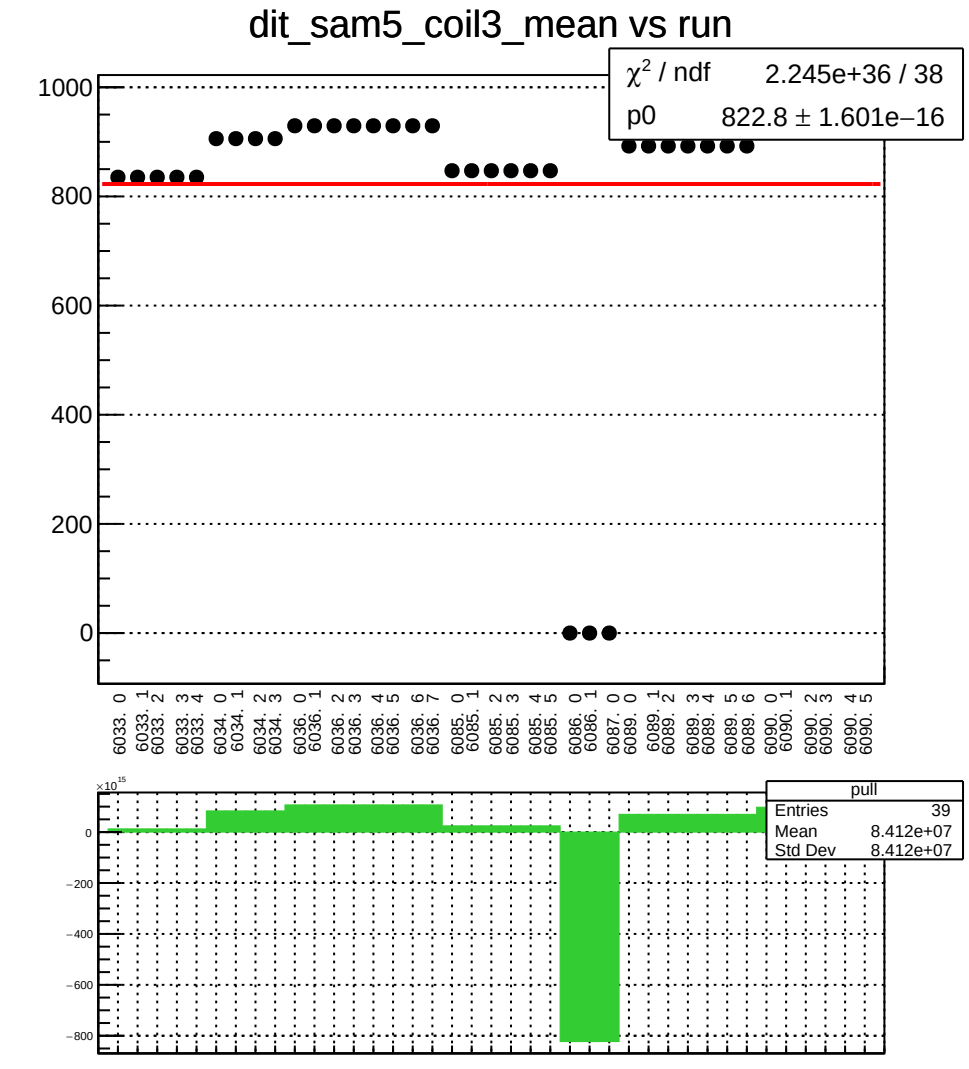
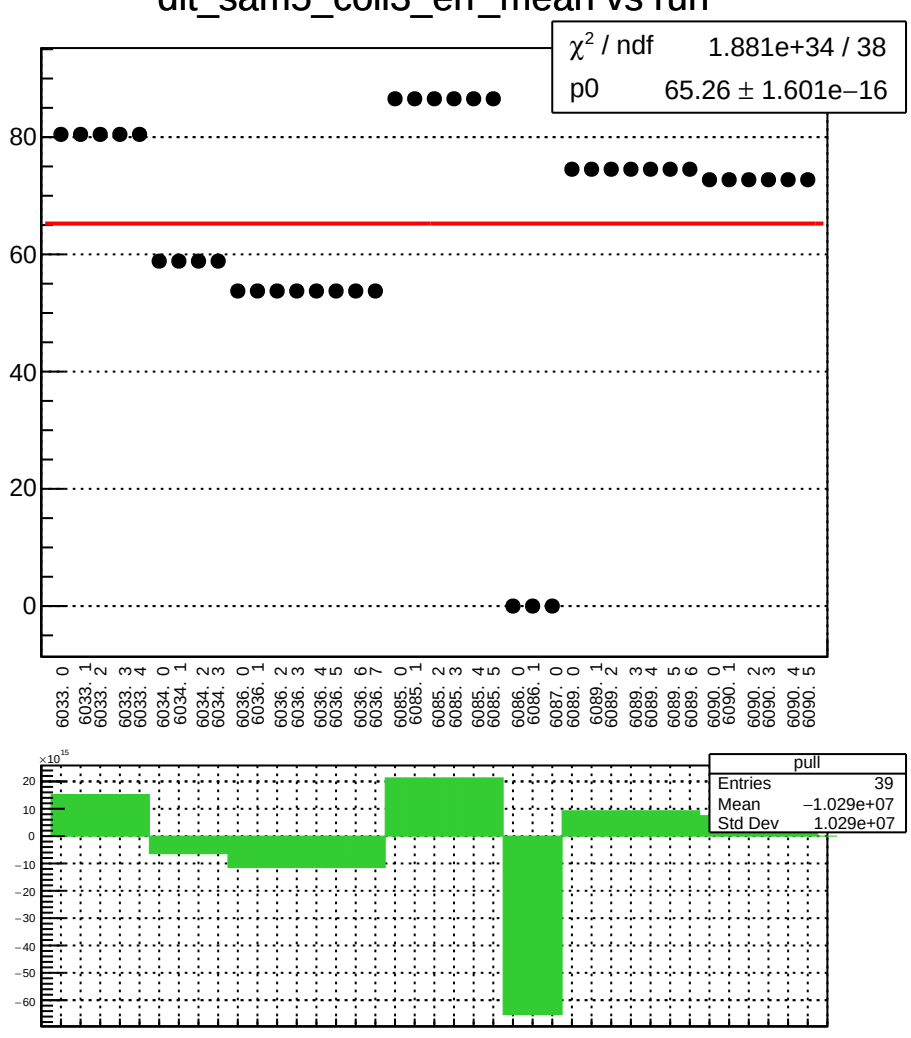
2
4
6
8

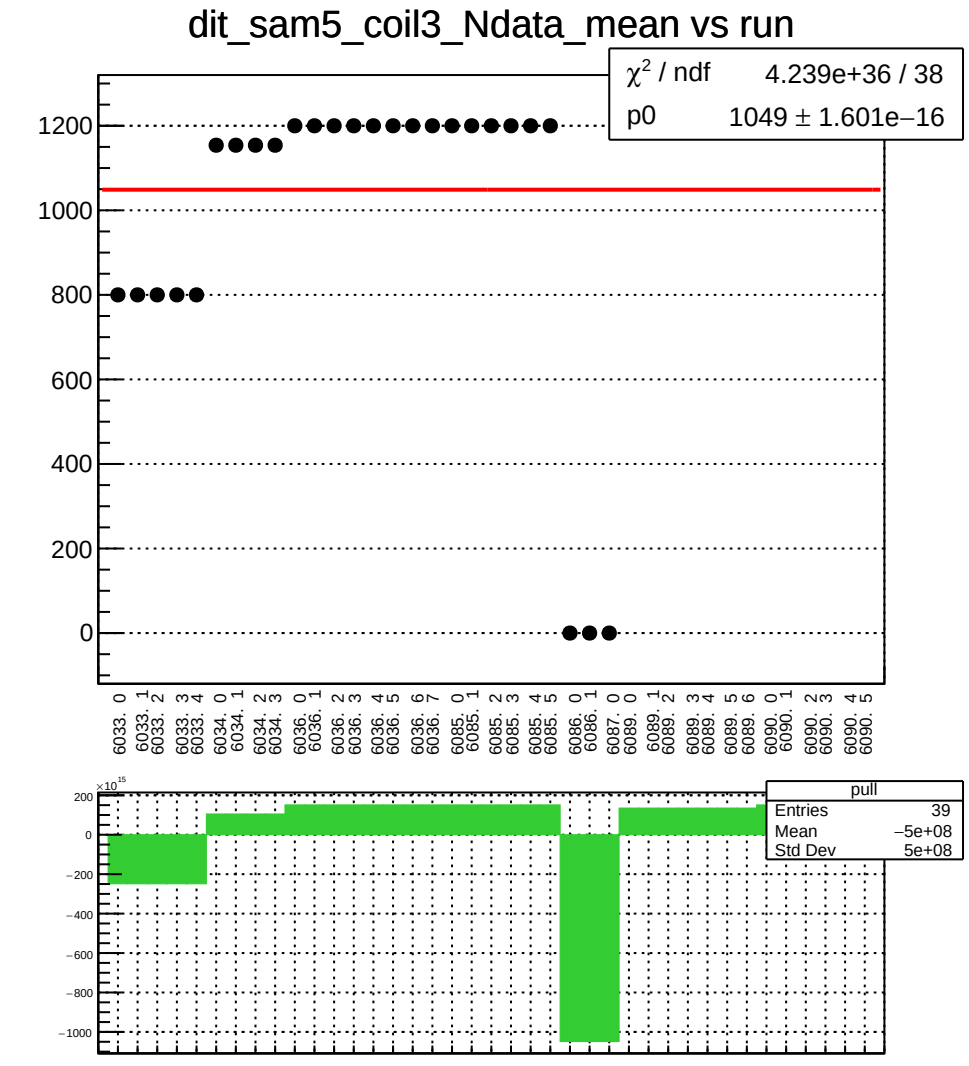

dit_sam4_coil3_err_mean vs run
χ² / ndf 4.278e+35 / 38
p0 326.8 ± 1.601e−16
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
pull
Entries 39
Mean 6.717e+08
Std Dev 6.717e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

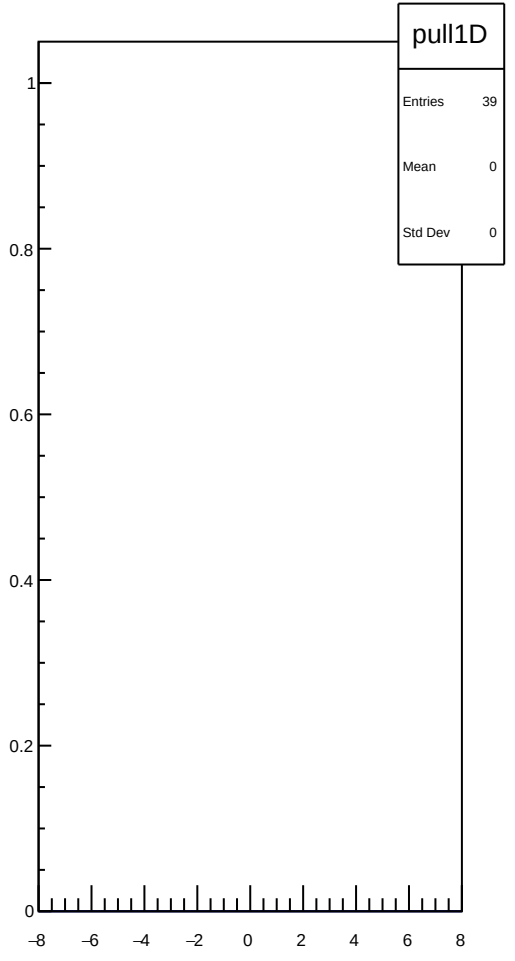

dit_sam4_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

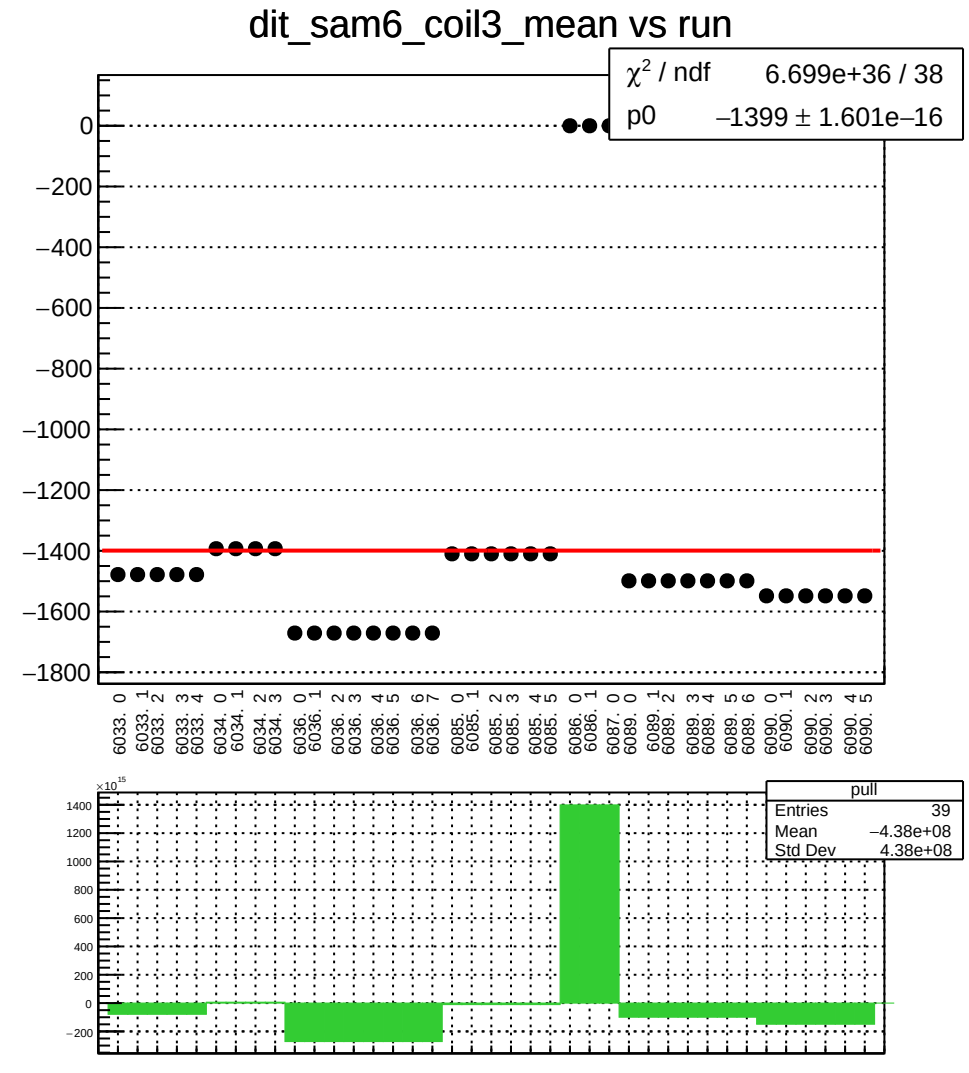

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

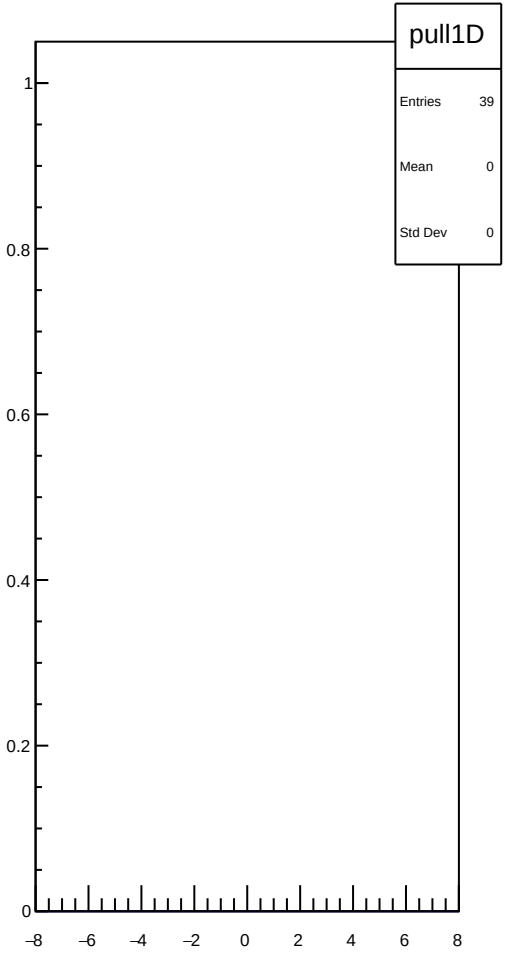

dit_sam5_coil3_mean vs run
χ² / ndf 2.245e+36 / 38
p0 822.8 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−200
−400
−600
−800
pull
Entries 39
Mean 8.412e+07
Std Dev 8.412e+07
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

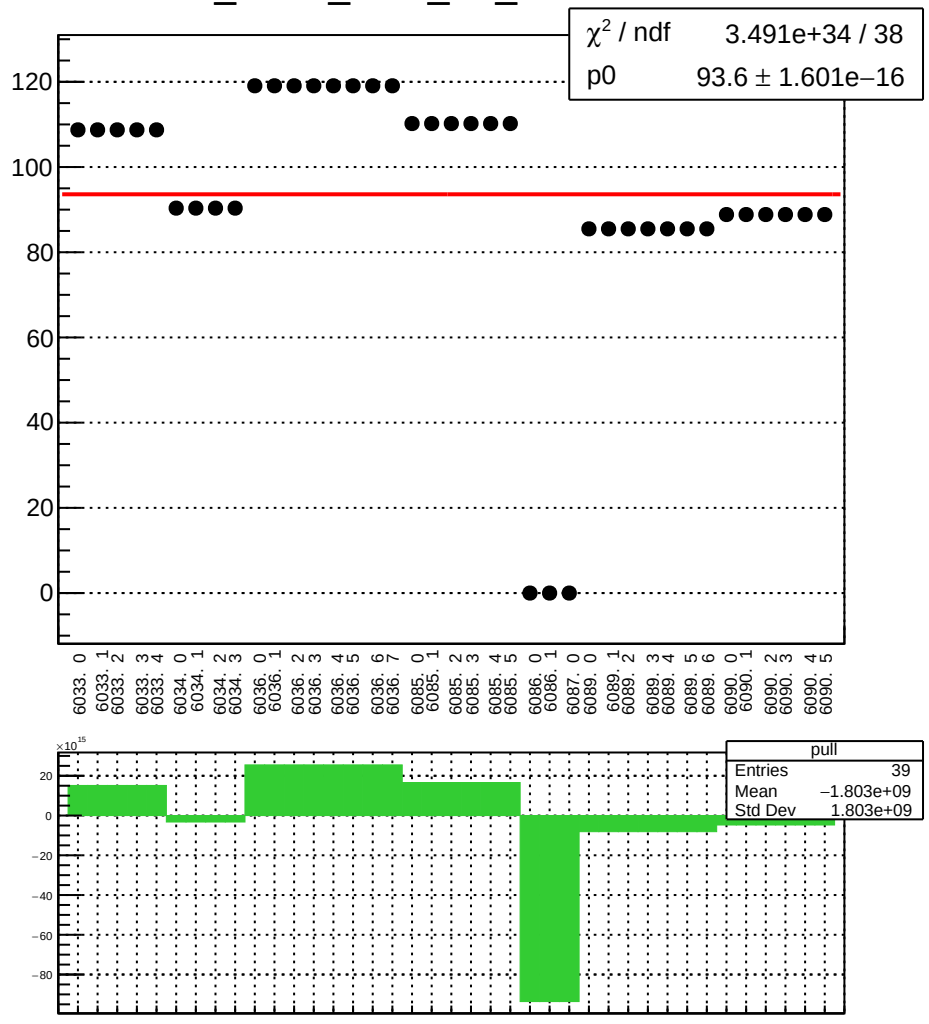

dit_sam5_coil3_err_mean vs run
χ² / ndf 1.881e+34 / 38
p0 65.26 ± 1.601e−16
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
20
10
0
−10
−20
−30
−40
−50
−60
pull
Entries 39
Mean −1.029e+07
Std Dev 1.029e+07
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

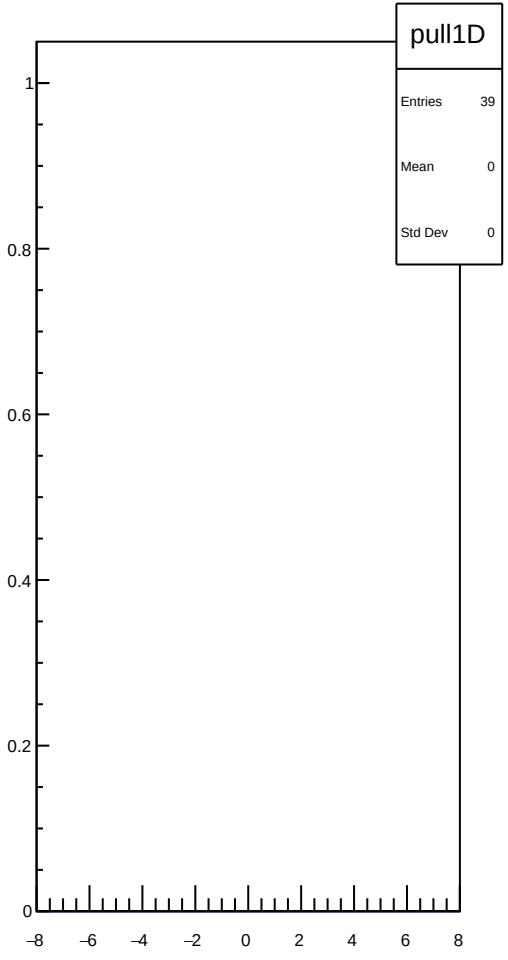

dit_sam5_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

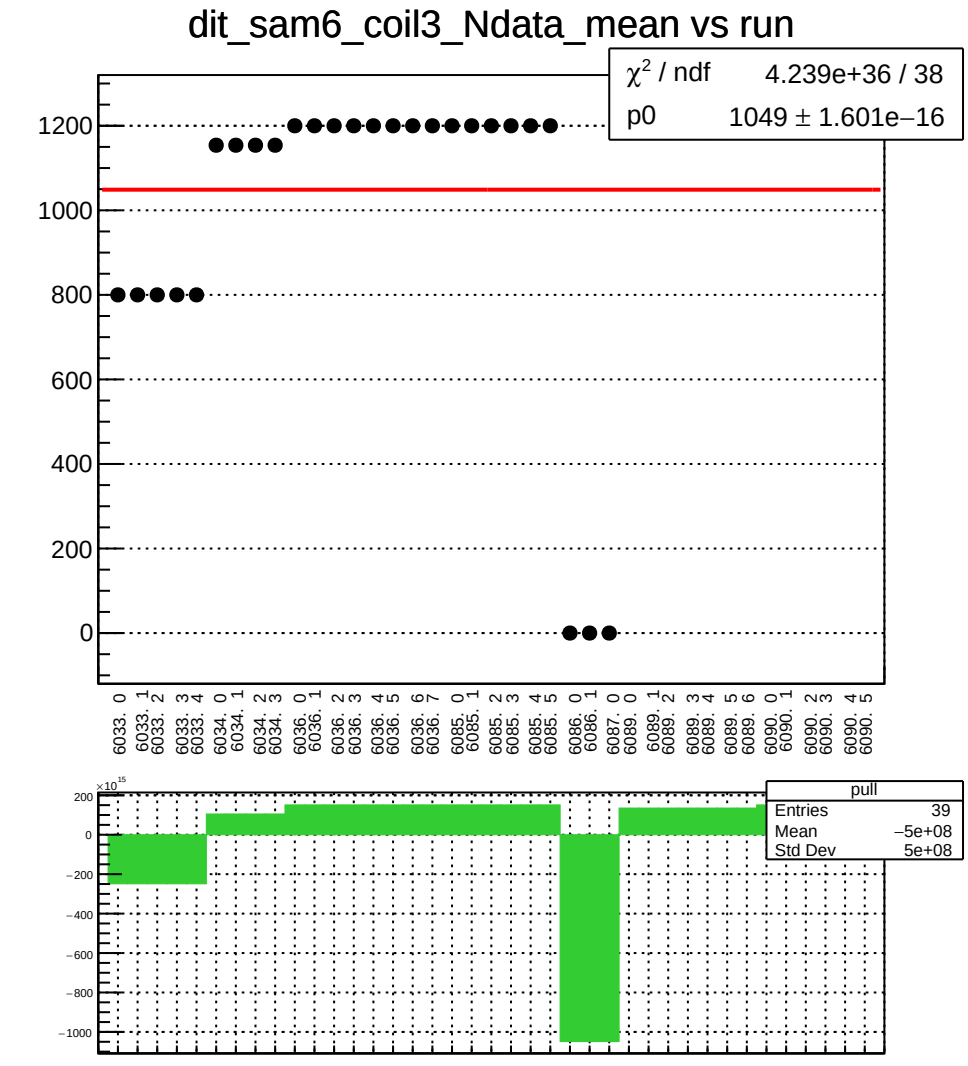

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

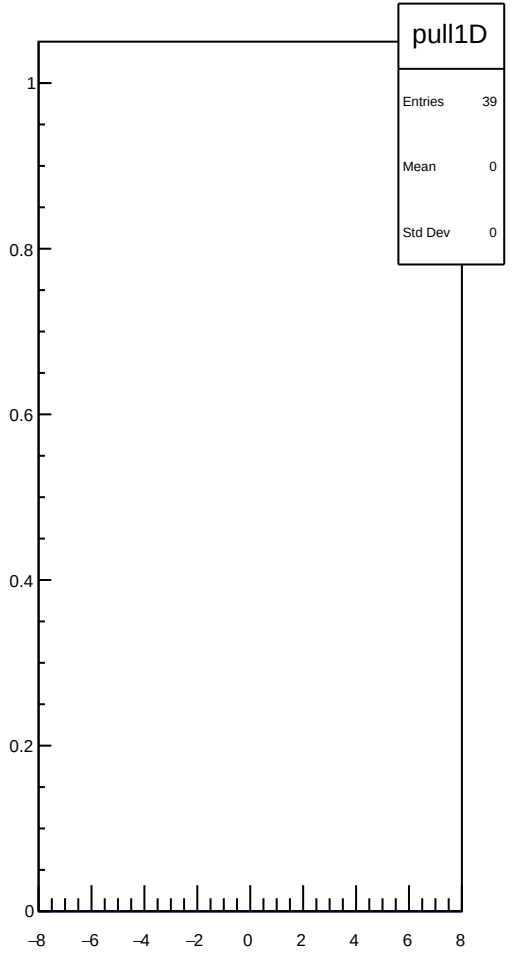

dit_sam6_coil3_mean vs run
χ² / ndf 6.699e+36 / 38
p0 −1399 ± 1.601e−16
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1400
1200
1000
800
600
400
200
0
−200
pull
Entries 39
Mean −4.38e+08
Std Dev 4.38e+08

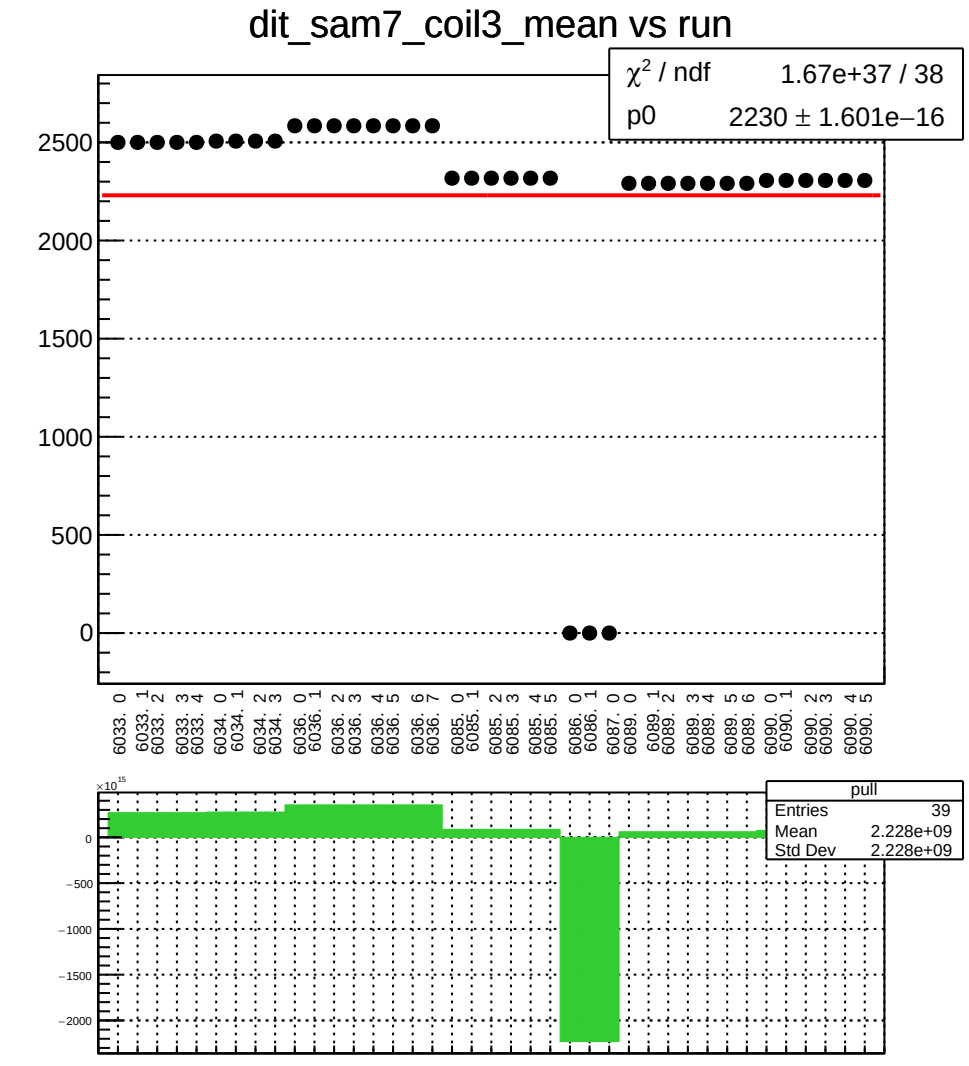

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

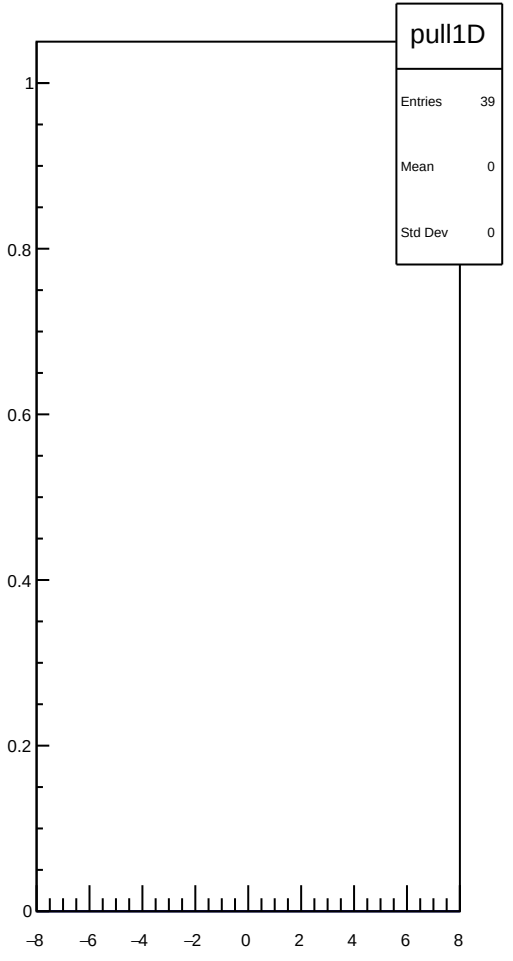

dit_sam6_coil3_err_mean vs run
χ² / ndf 3.491e+34 / 38
p0 93.6 ± 1.601e−16
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
20
0
−20
−40
−60
−80
pull
Entries 39
Mean −1.803e+09
Std Dev 1.803e+09

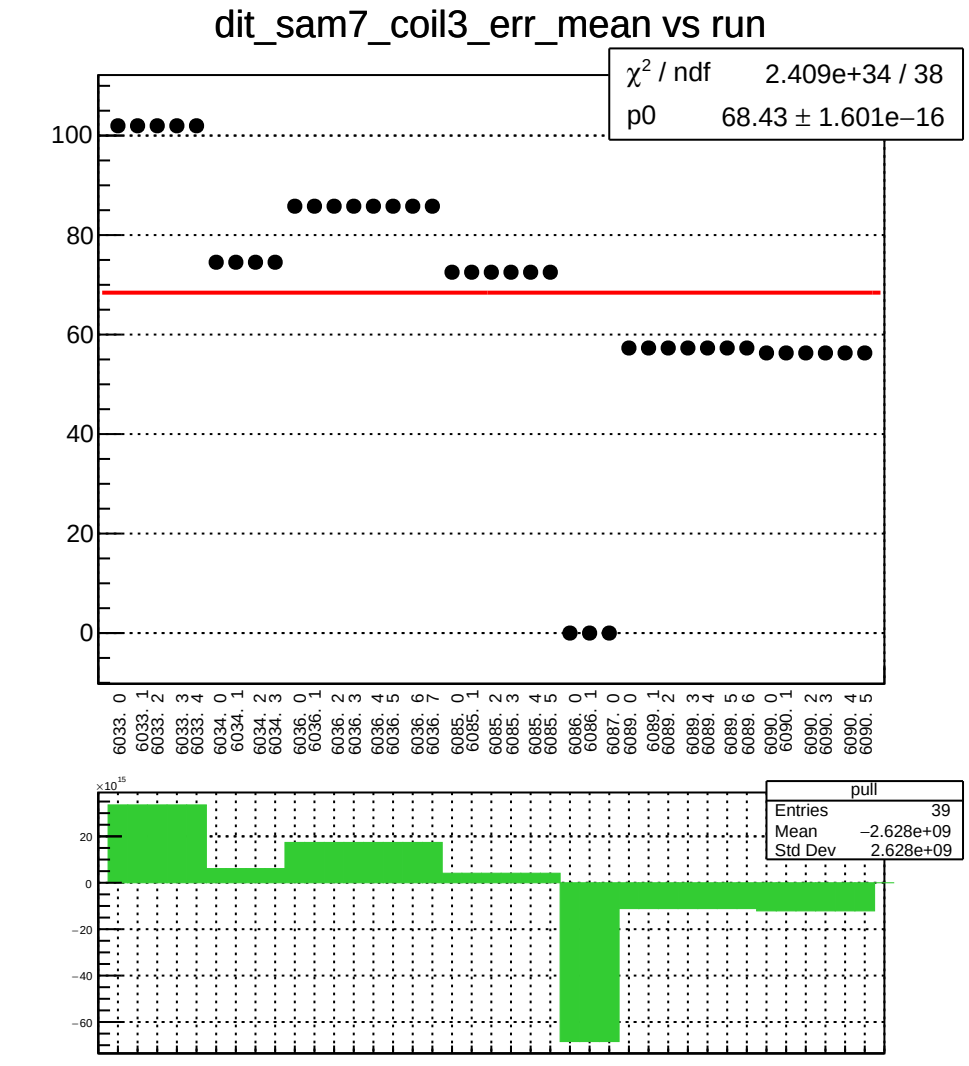

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

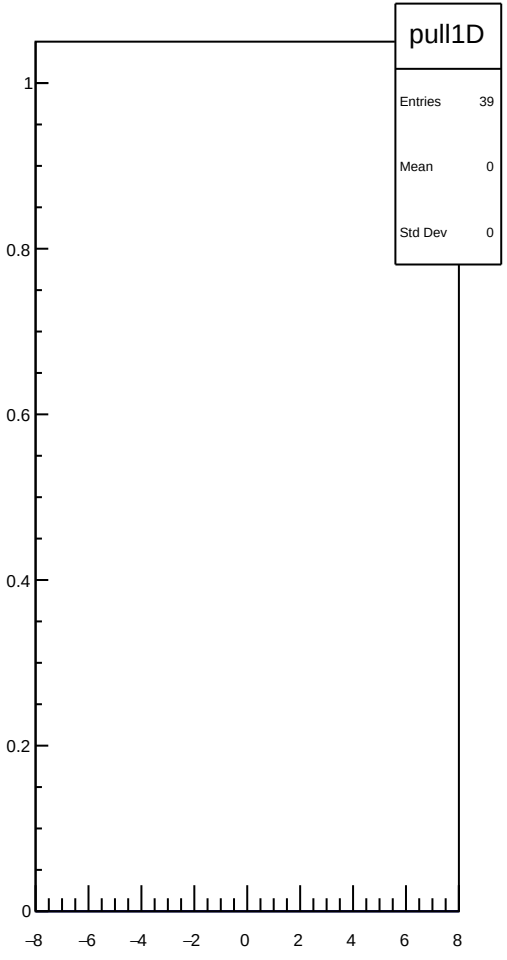

dit_sam6_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

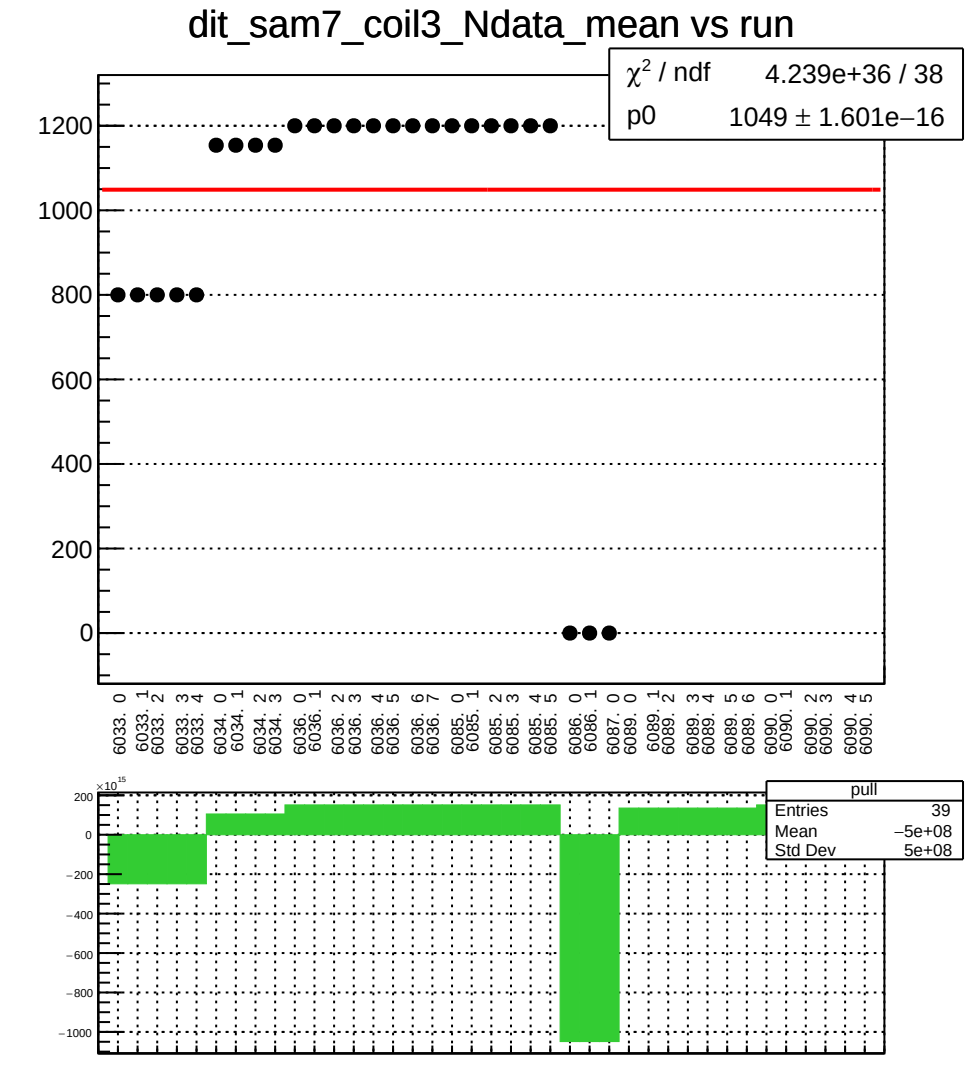

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

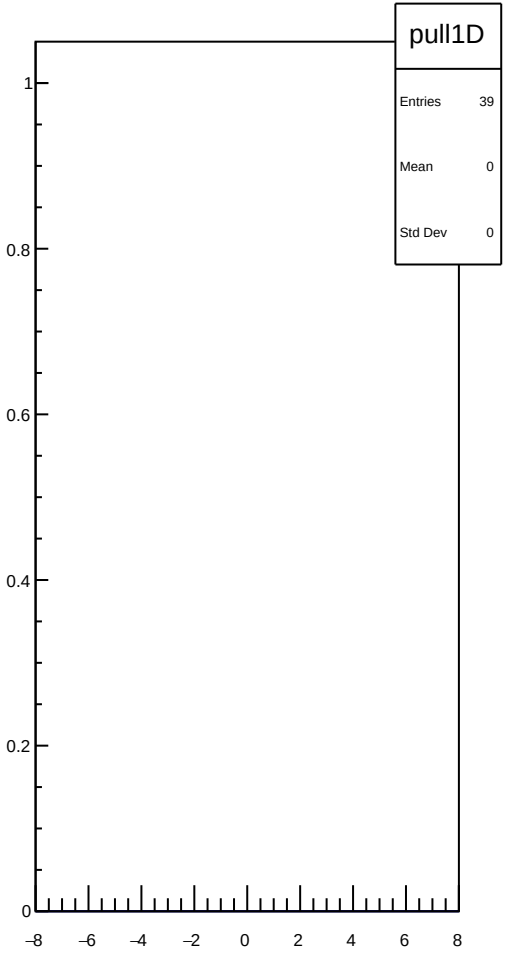

dit_sam7_coil3_mean vs run
χ² / ndf 1.67e+37 / 38
p0 2230 ± 1.601e−16
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−500
−1000
−1500
−2000
pull
Entries 39
Mean 2.228e+09
Std Dev 2.228e+09

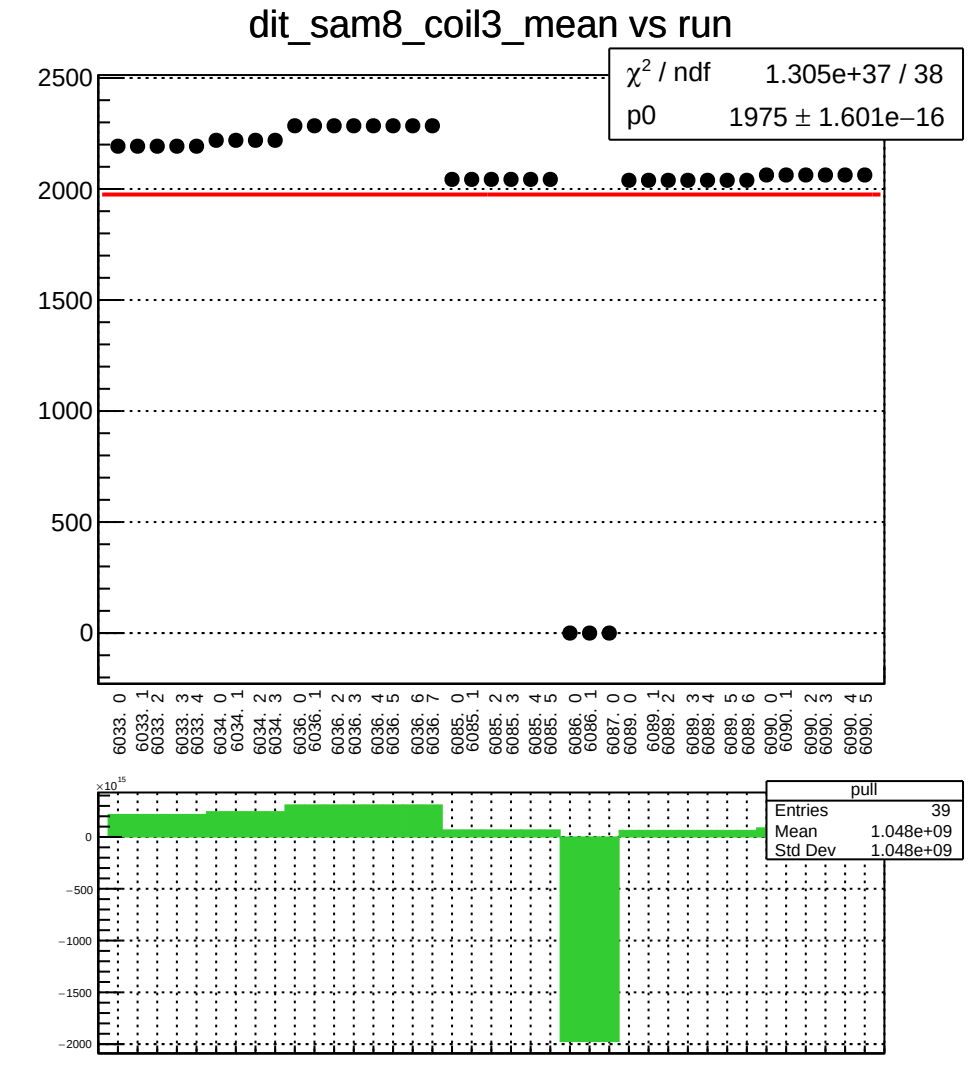

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

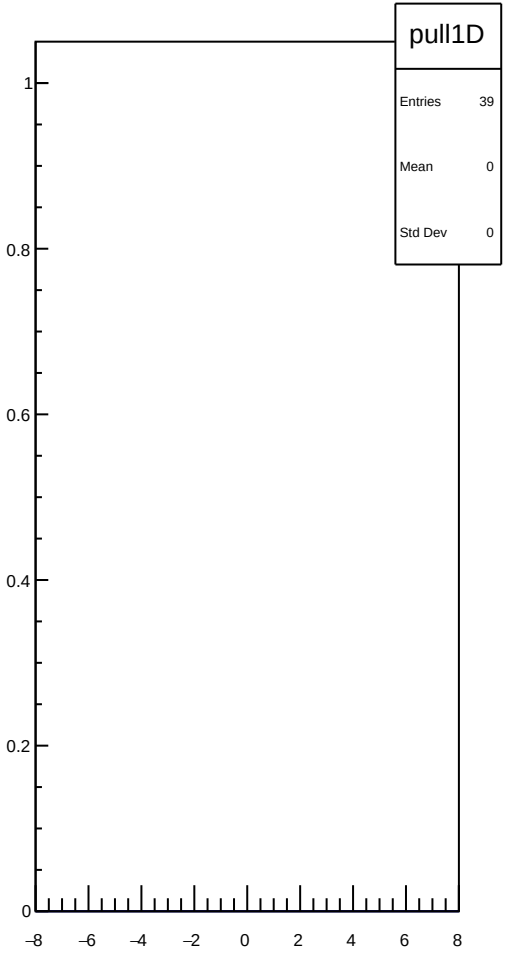

dit_sam7_coil3_err_mean vs run
χ² / ndf 2.409e+34 / 38
p0 68.43 ± 1.601e−16
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
20
0
−20
−40
−60
pull
Entries 39
Mean −2.628e+09
Std Dev 2.628e+09

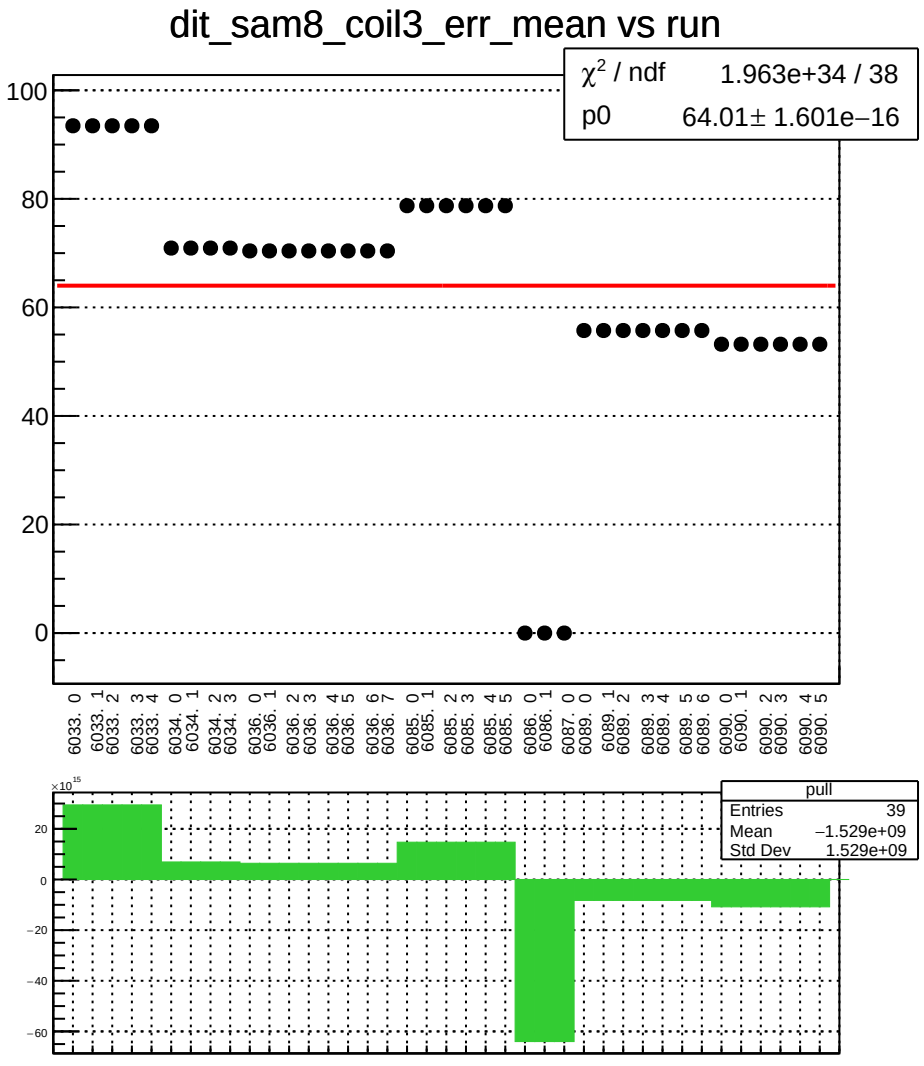

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

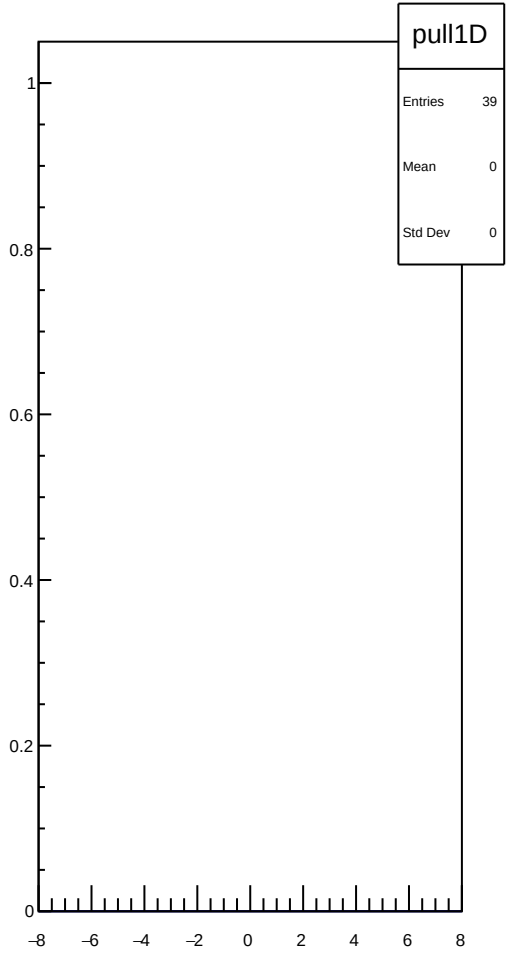

dit_sam7_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08

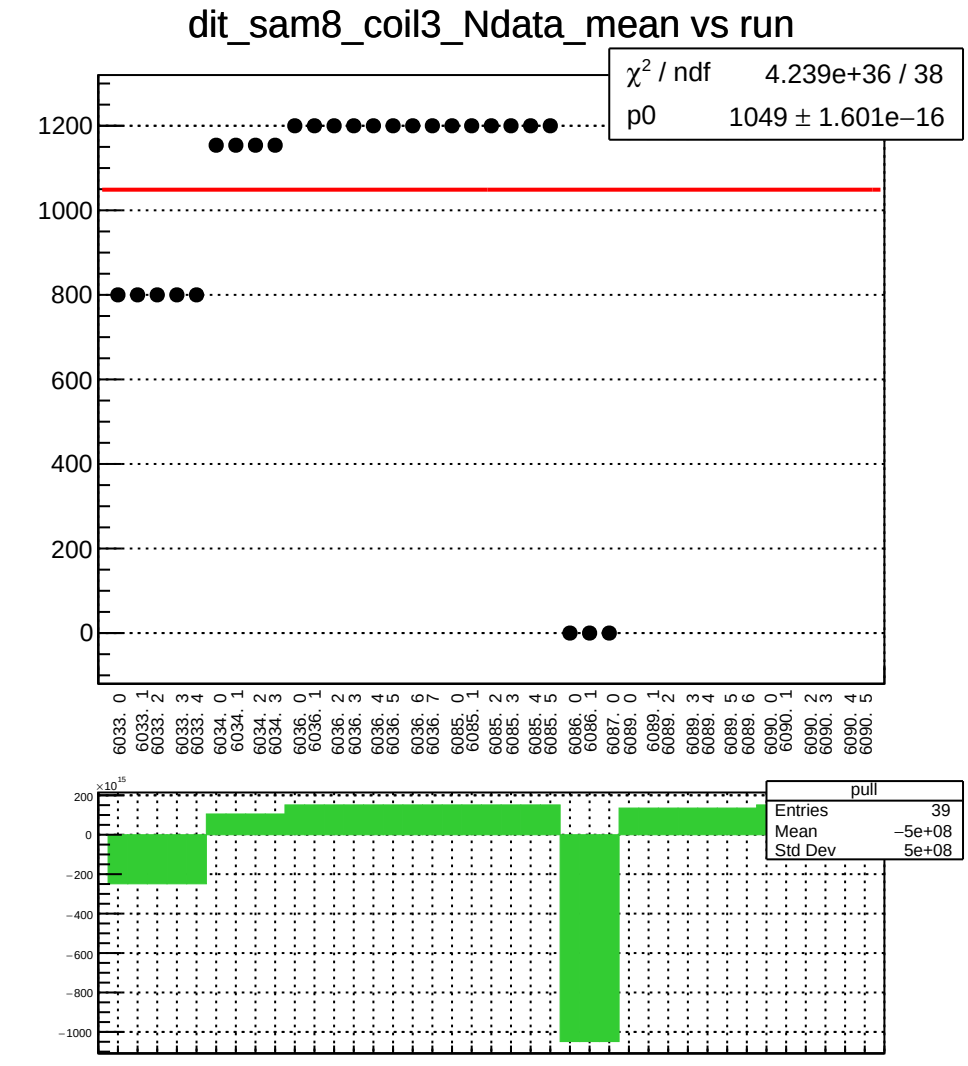

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

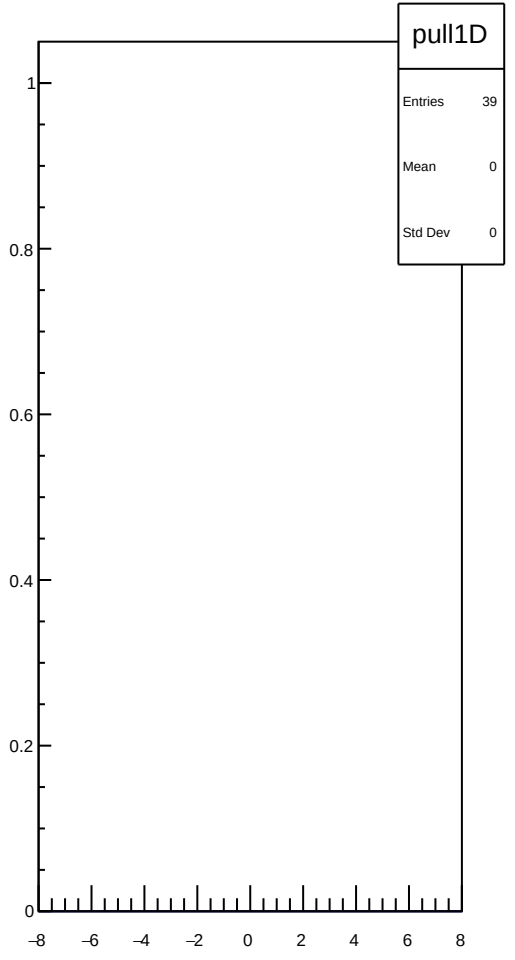

dit_sam8_coil3_mean vs run
χ² / ndf 1.305e+37 / 38
p0 1975 ± 1.601e−16
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−500
−1000
−1500
−2000
pull
Entries 39
Mean 1.048e+09
Std Dev 1.048e+09


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


dit_sam8_coil3_err_mean vs run
χ² / ndf 1.963e+34 / 38
p0 64.01± 1.601e−16
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
20
0
−20
−40
−60
pull
Entries 39
Mean −1.529e+09
Std Dev 1.529e+09


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


dit_sam8_coil3_Ndata_mean vs run
χ² / ndf 4.239e+36 / 38
p0 1049 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −5e+08
Std Dev 5e+08


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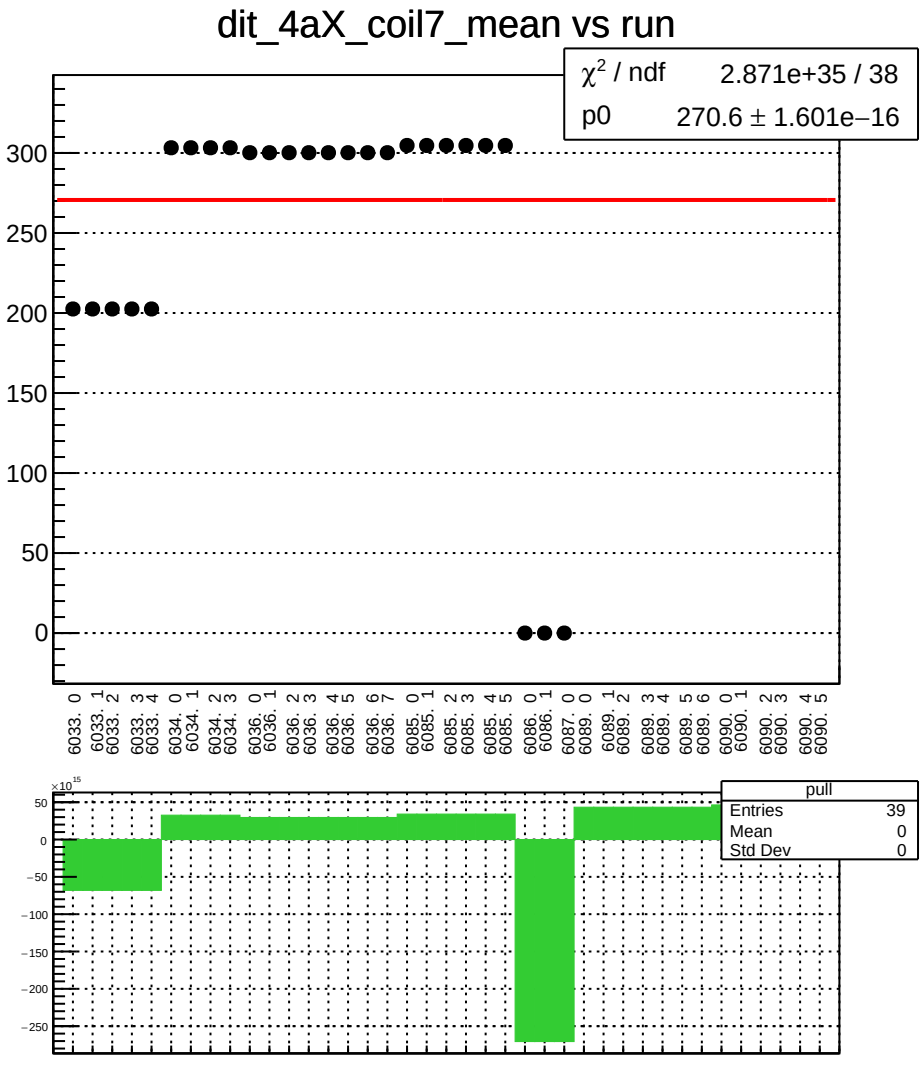
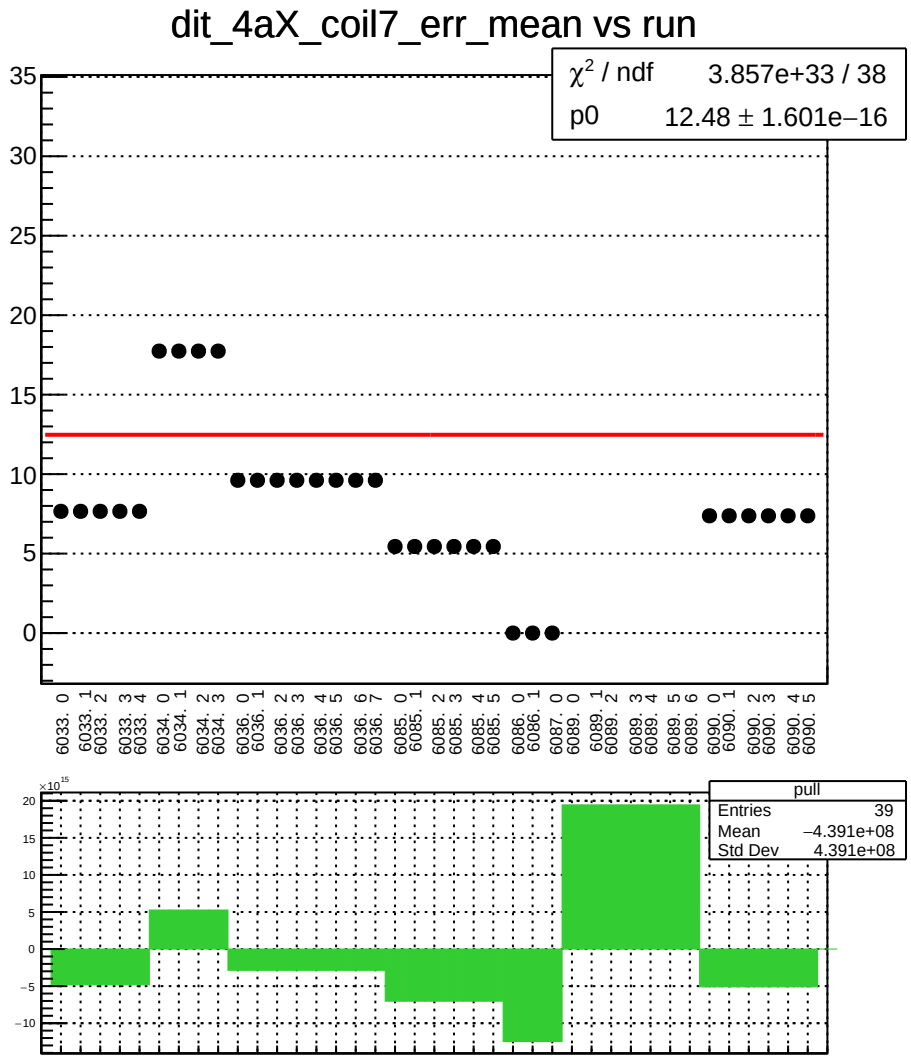
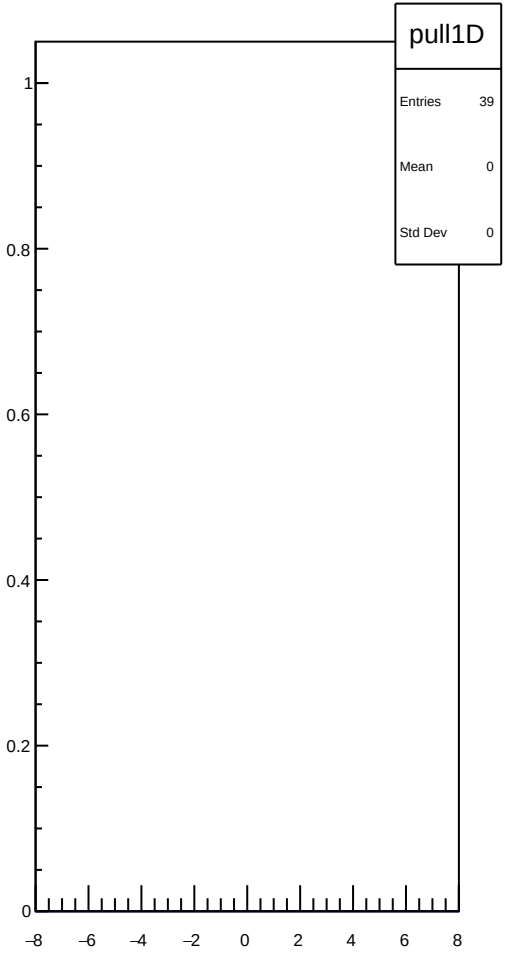
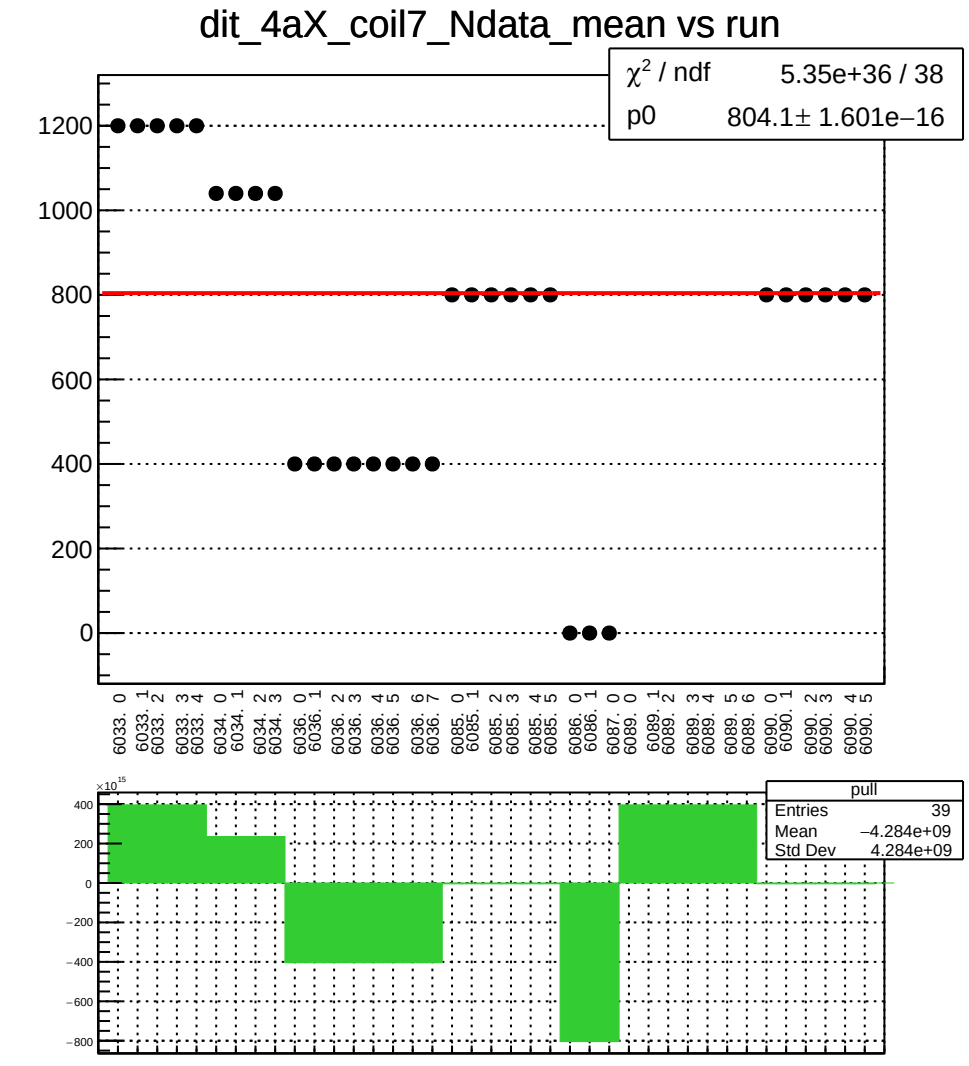
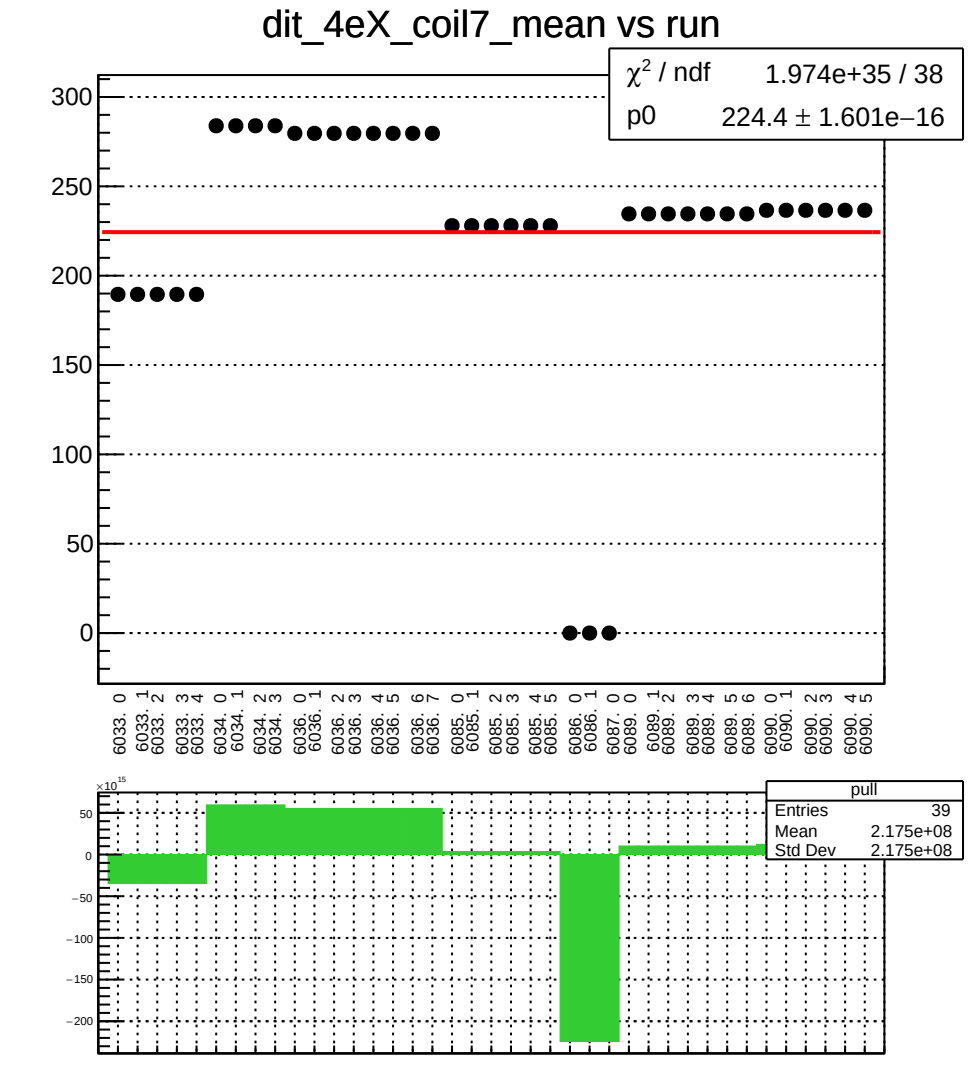
2
4
6
8

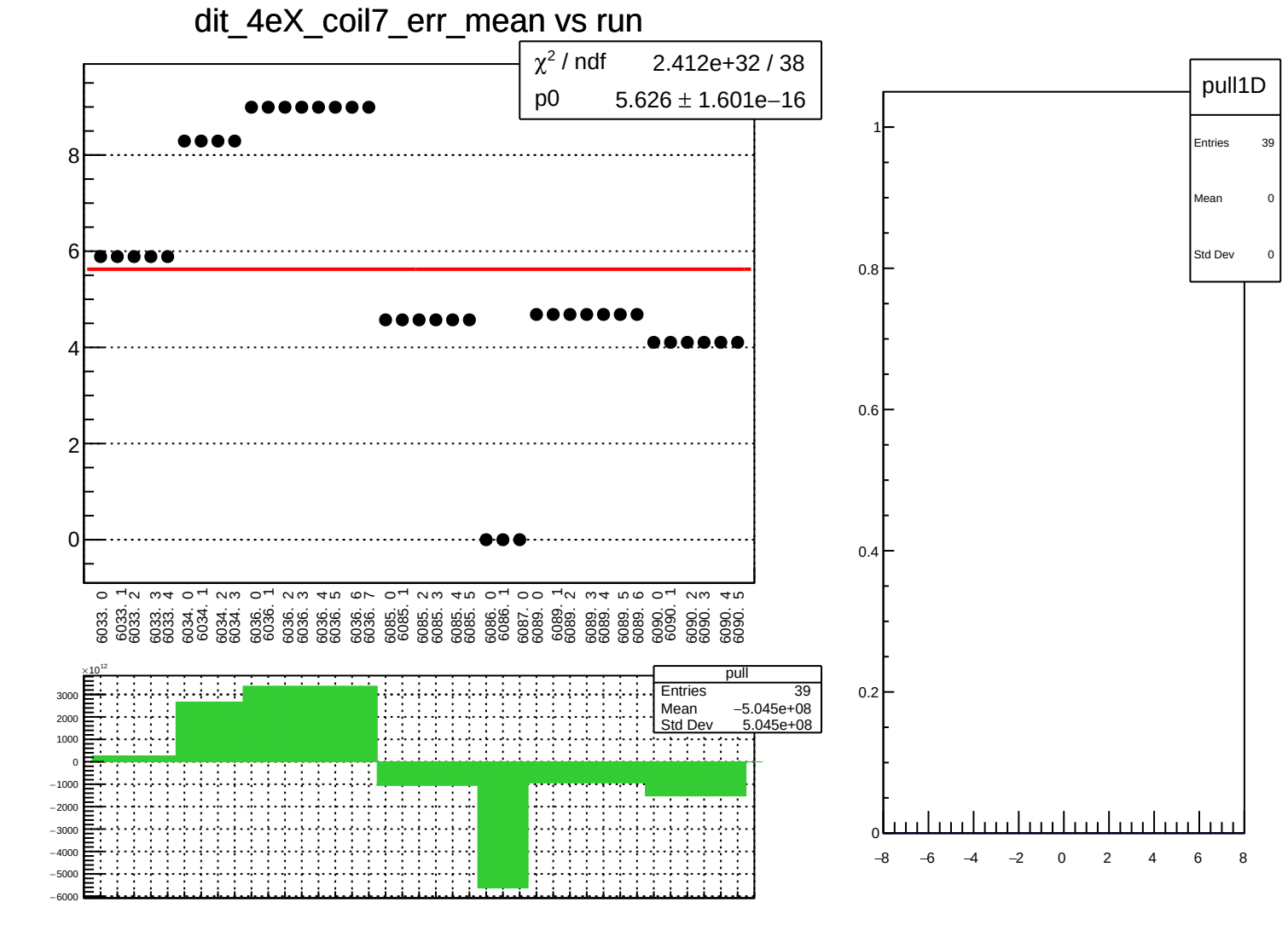

dit_4aX_coil7_mean vs run
χ² / ndf 2.871e+35 / 38
p0 270.6 ± 1.601e−16
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
−200
−250
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

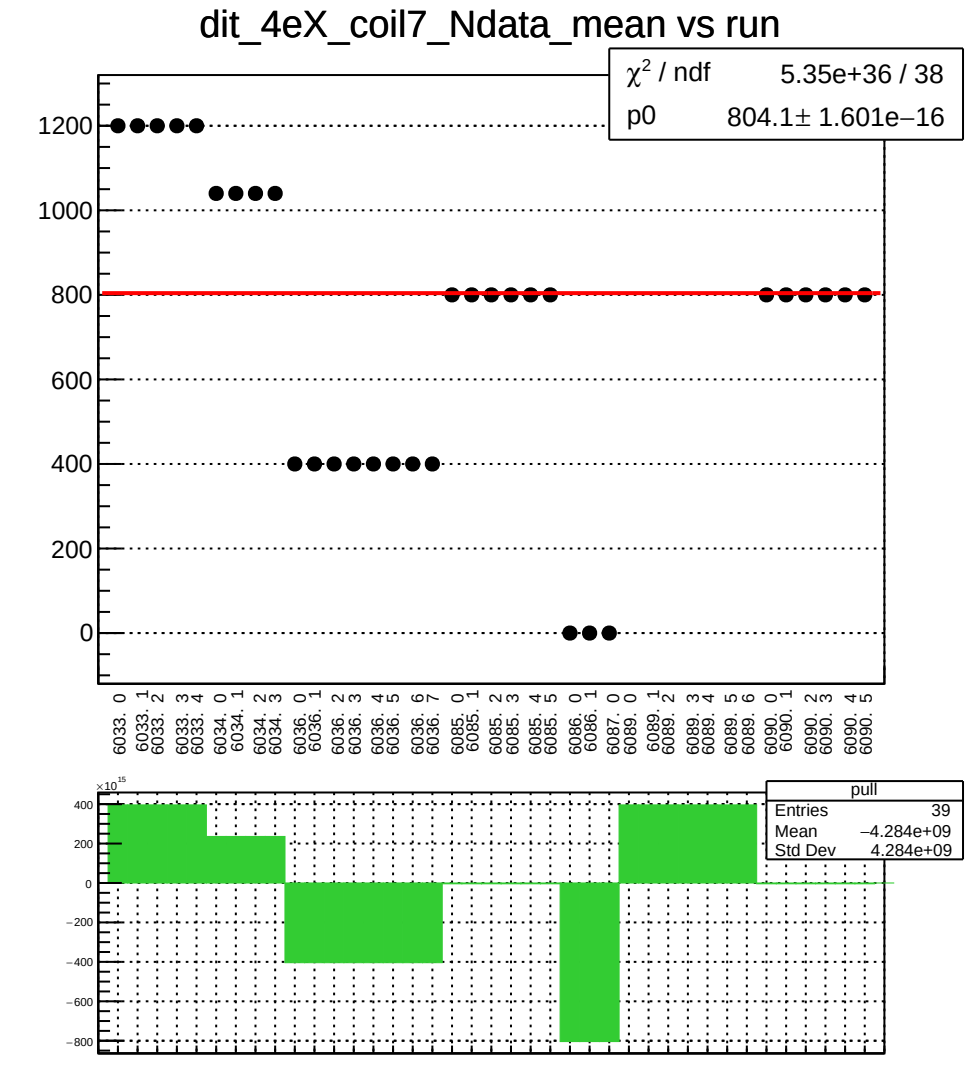

dit_4aX_coil7_err_mean vs run
χ² / ndf 3.857e+33 / 38
p0 12.48 ± 1.601e−16
pull
Entries 39
Mean −4.391e+08
Std Dev 4.391e+08

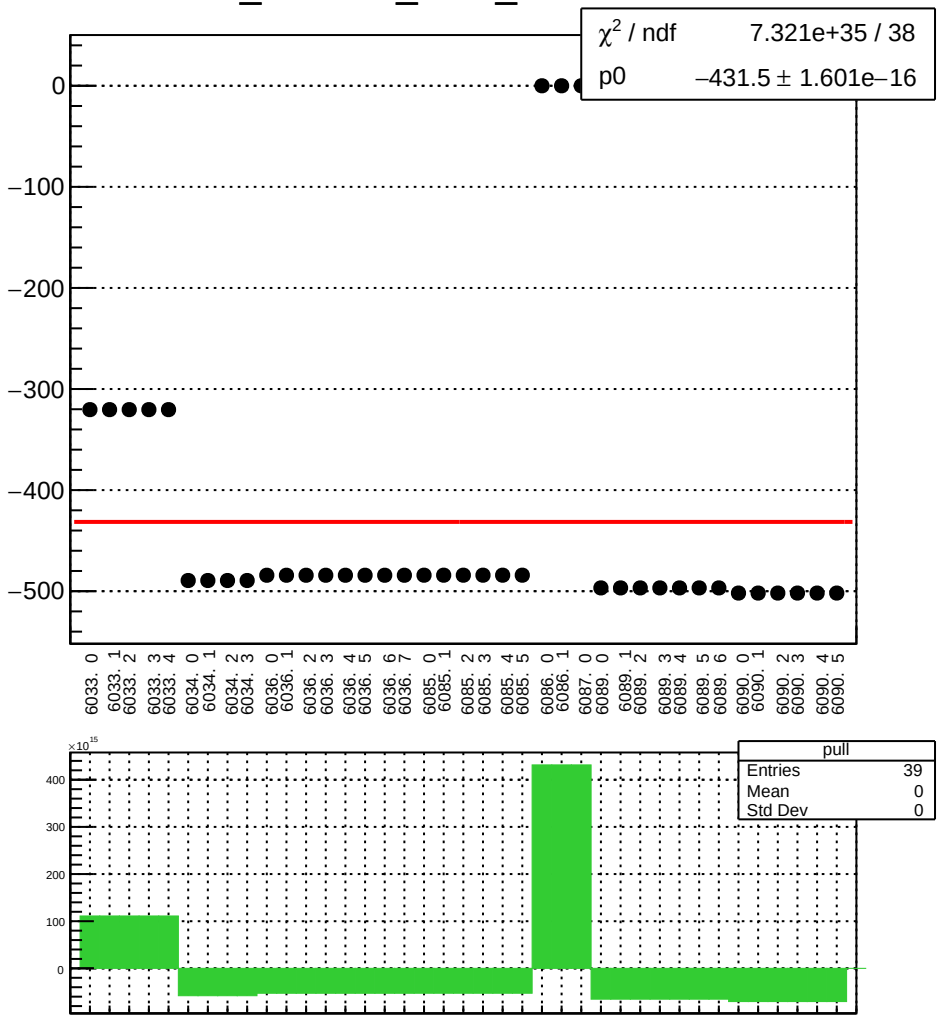

pull1D
Entries 39
Mean 0
Std Dev 0

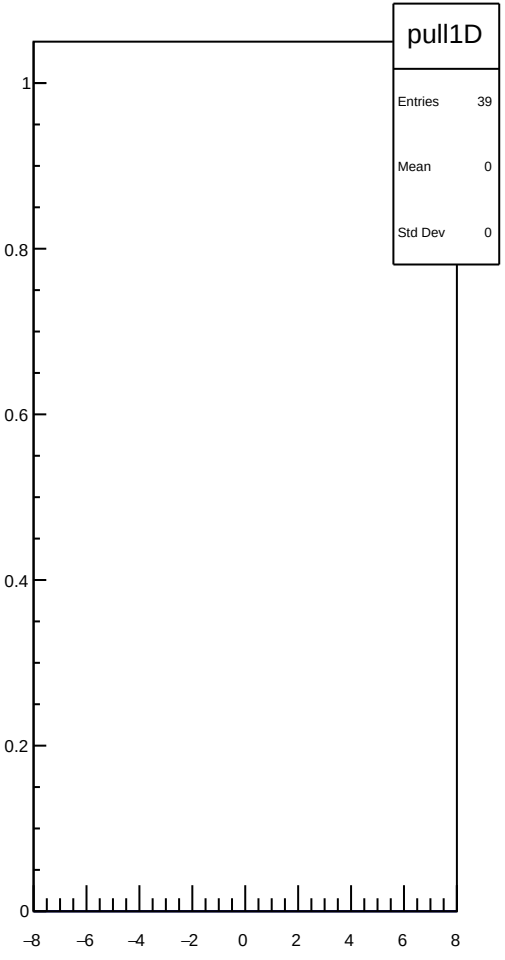

dit_4aX_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

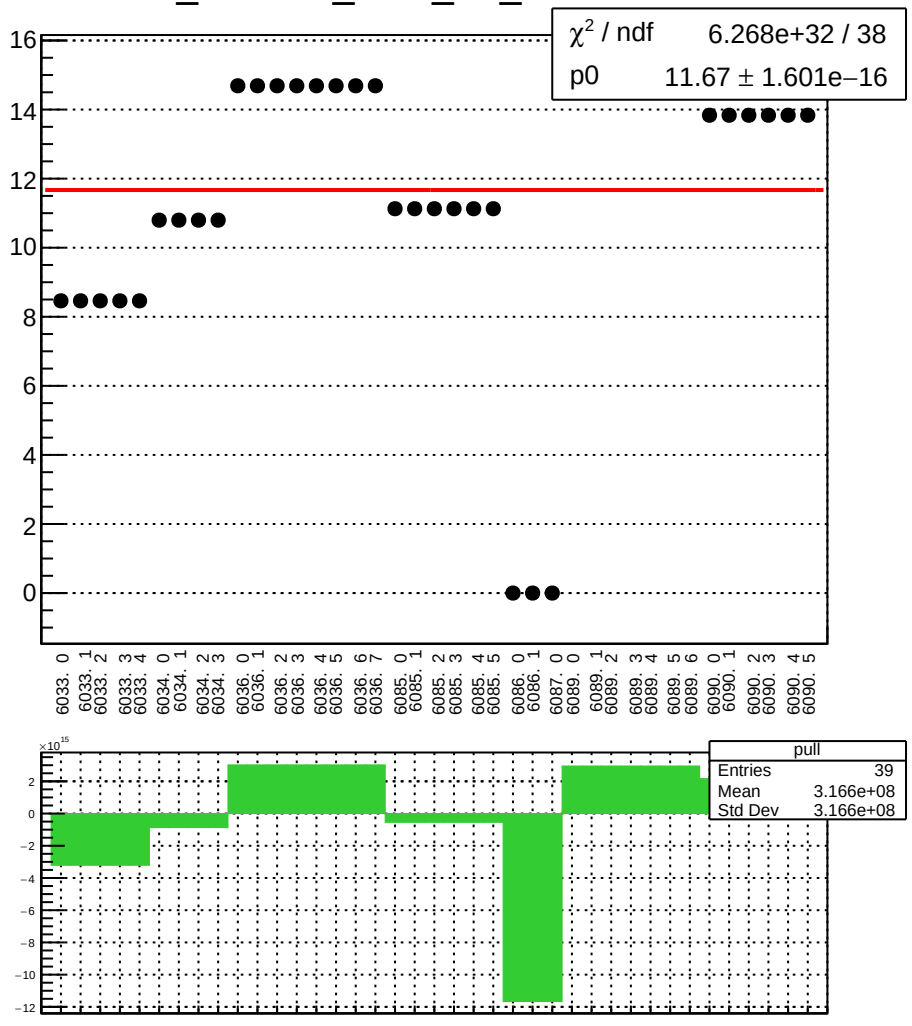

dit_4eX_coil7_mean vs run
χ² / ndf 1.974e+35 / 38
p0 224.4 ± 1.601e−16
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
−200
pull
Entries 39
Mean 2.175e+08
Std Dev 2.175e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

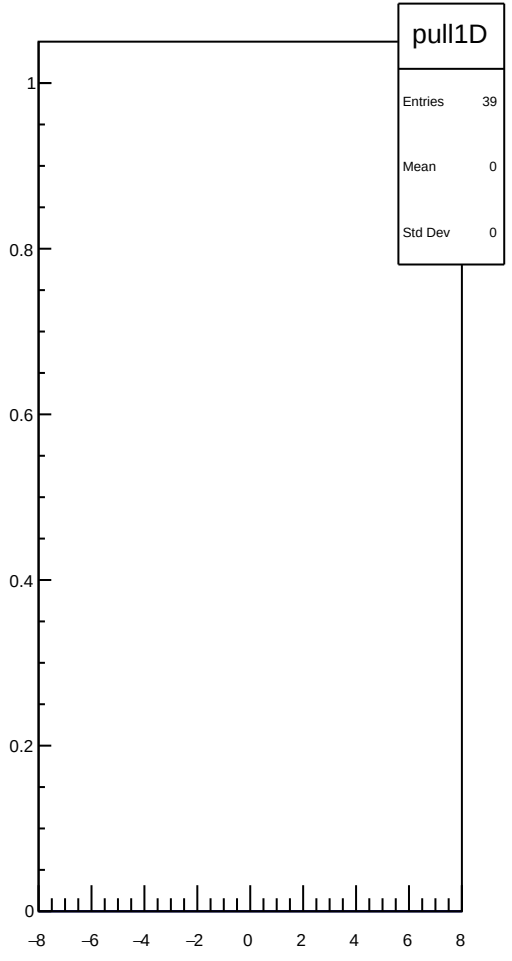

dit_4eX_coil7_err_mean vs run
χ² / ndf 2.412e+32 / 38
p0 5.626 ± 1.601e−16
pull
Entries 39
Mean −5.045e+08
Std Dev 5.045e+08
pull1D
Entries 39
Mean 0
Std Dev 0

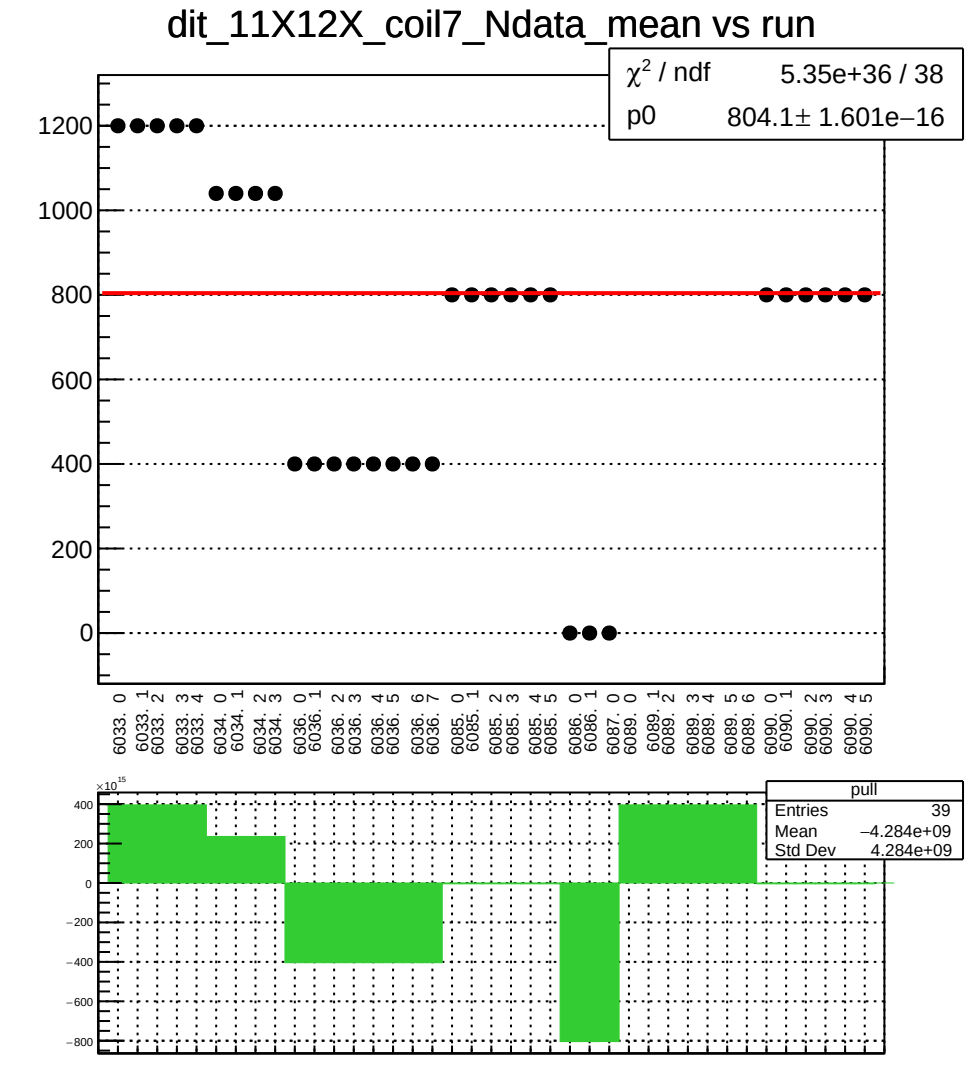

dit_4eX_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

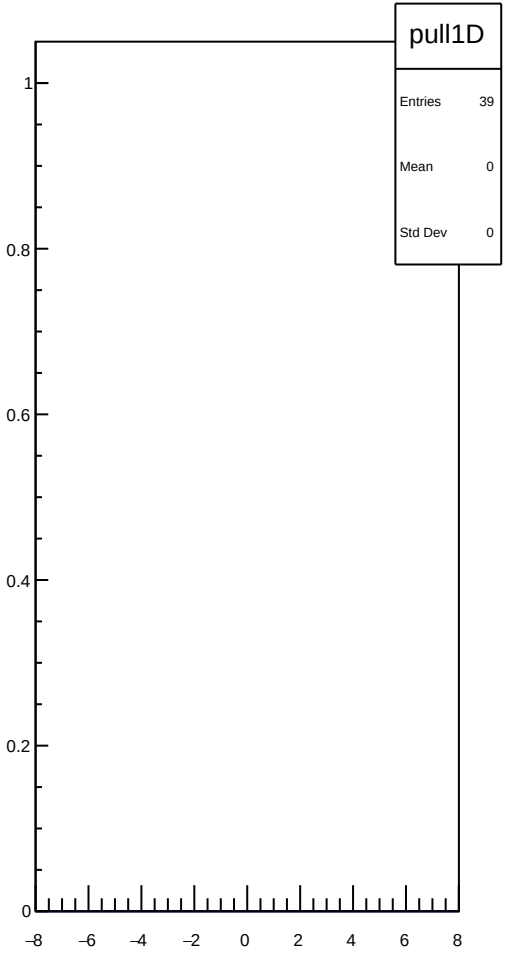

dit_11X12X_coil7_mean vs run
χ² / ndf 7.321e+35 / 38
p0 −431.5 ± 1.601e−16
0
−100
−200
−300
−400
−500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
300
200
100
0
pull
Entries 39
Mean 0
Std Dev 0

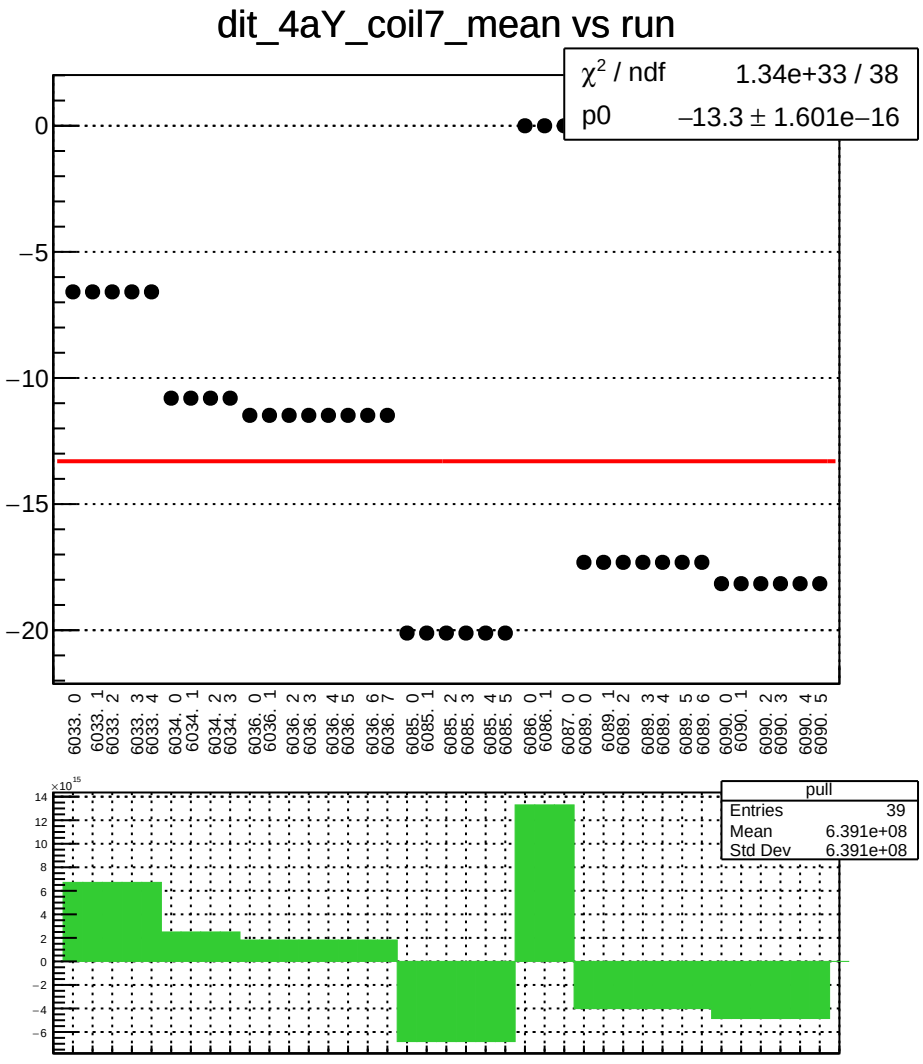

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

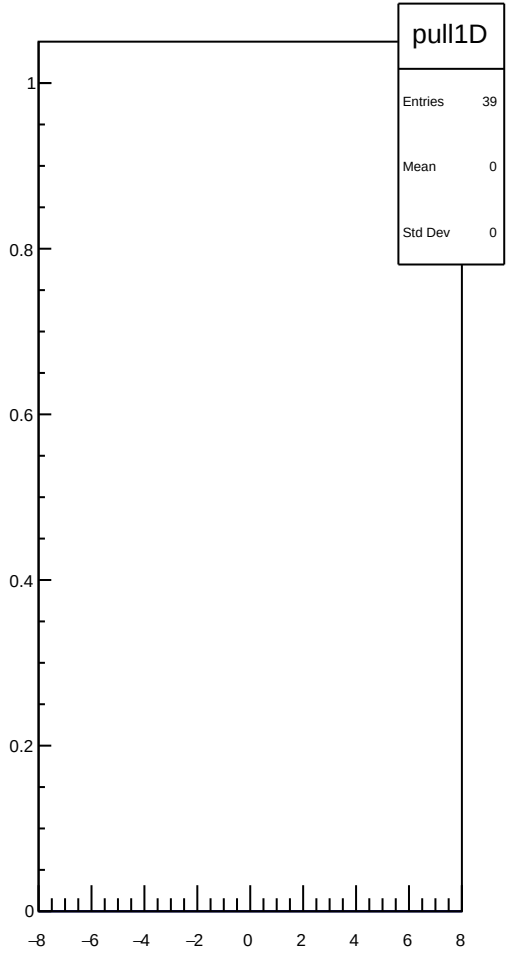

dit_11X12X_coil7_err_mean vs run
χ² / ndf 6.268e+32 / 38
p0 11.67 ± 1.601e−16
pull
Entries 39
Mean 3.166e+08
Std Dev 3.166e+08

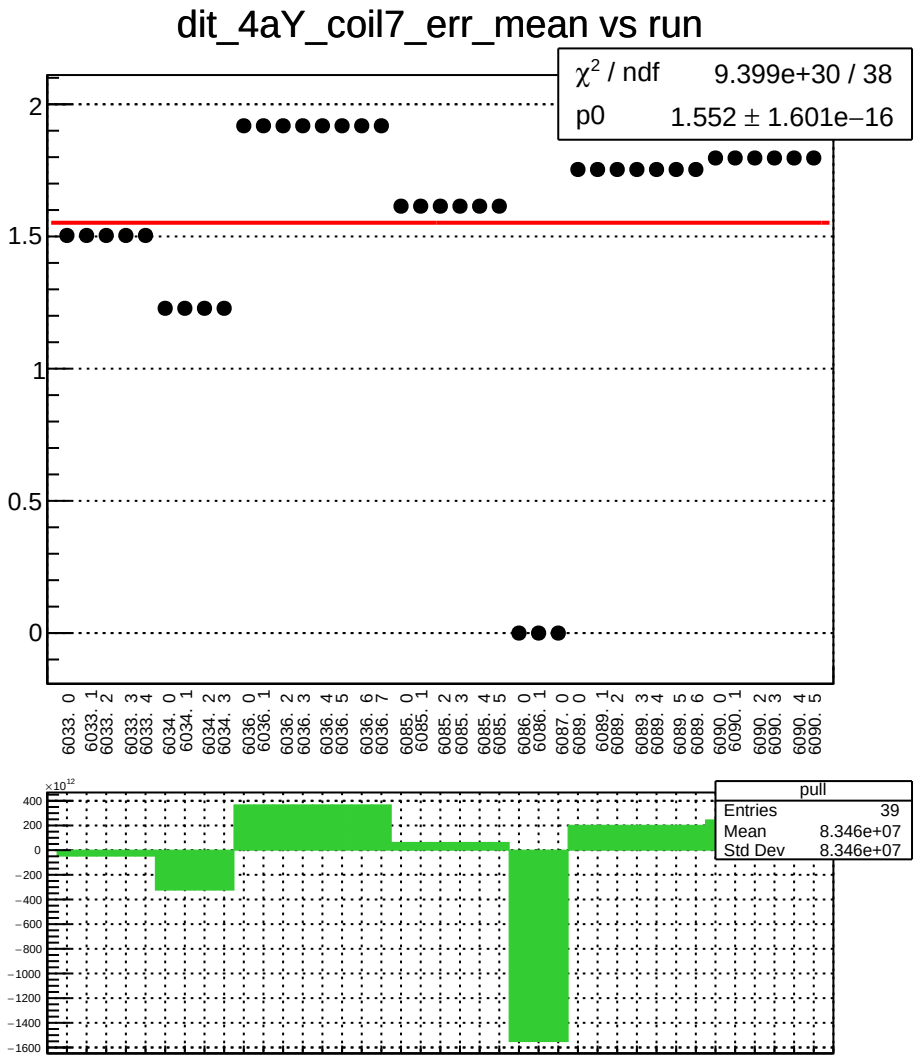

pull1D
Entries 39
Mean 0
Std Dev 0

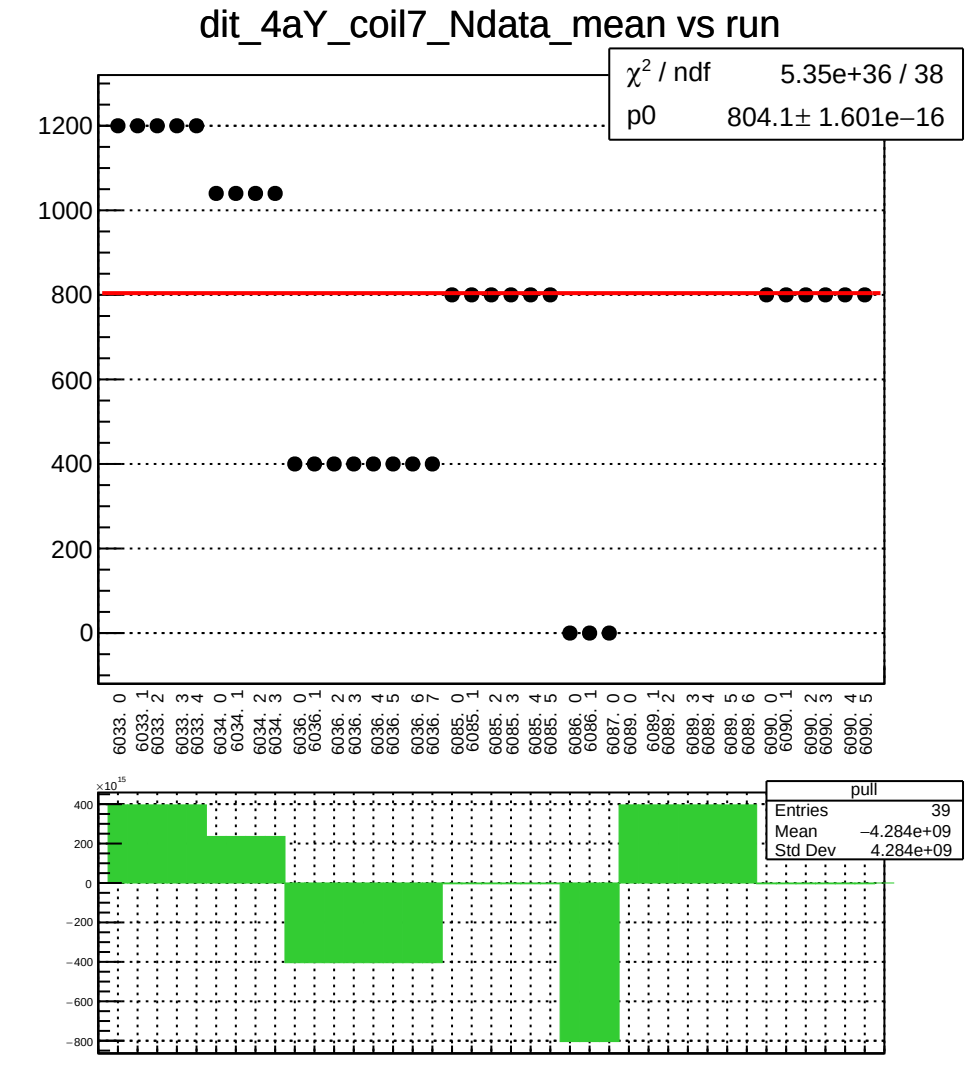

dit_11X12X_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09

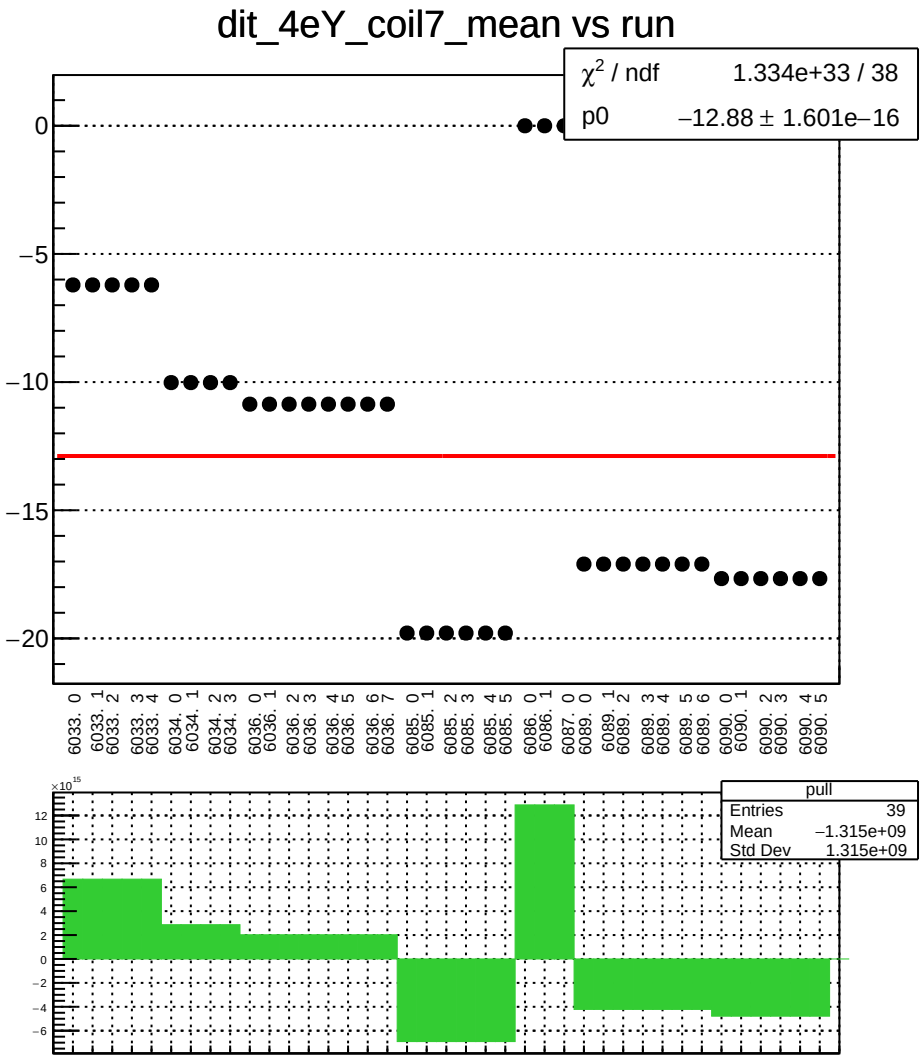

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

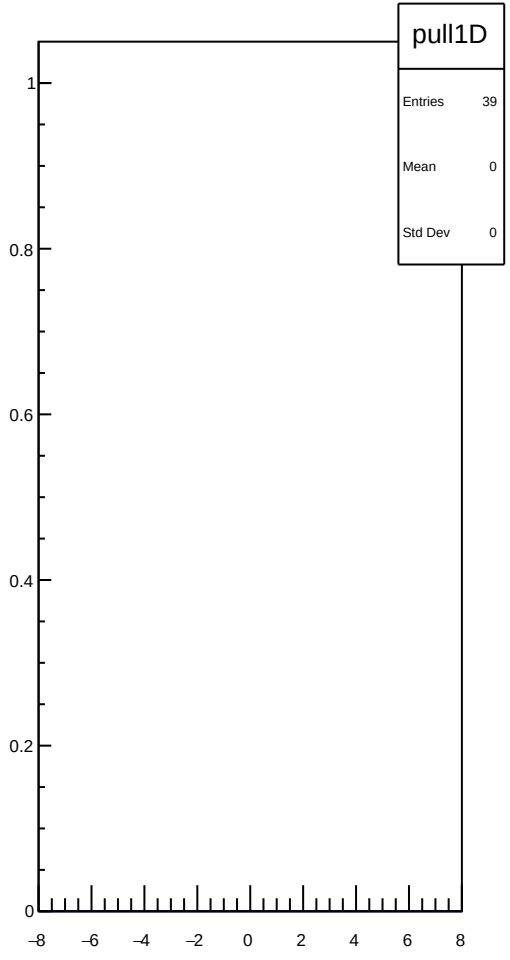

dit_4aY_coil7_mean vs run
χ² / ndf 1.34e+33 / 38
p0 −13.3 ± 1.601e−16
0
−5
−10
−15
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
14
12
10
8
6
4
2
0
−2
−4
−6
pull
Entries 39
Mean 6.391e+08
Std Dev 6.391e+08

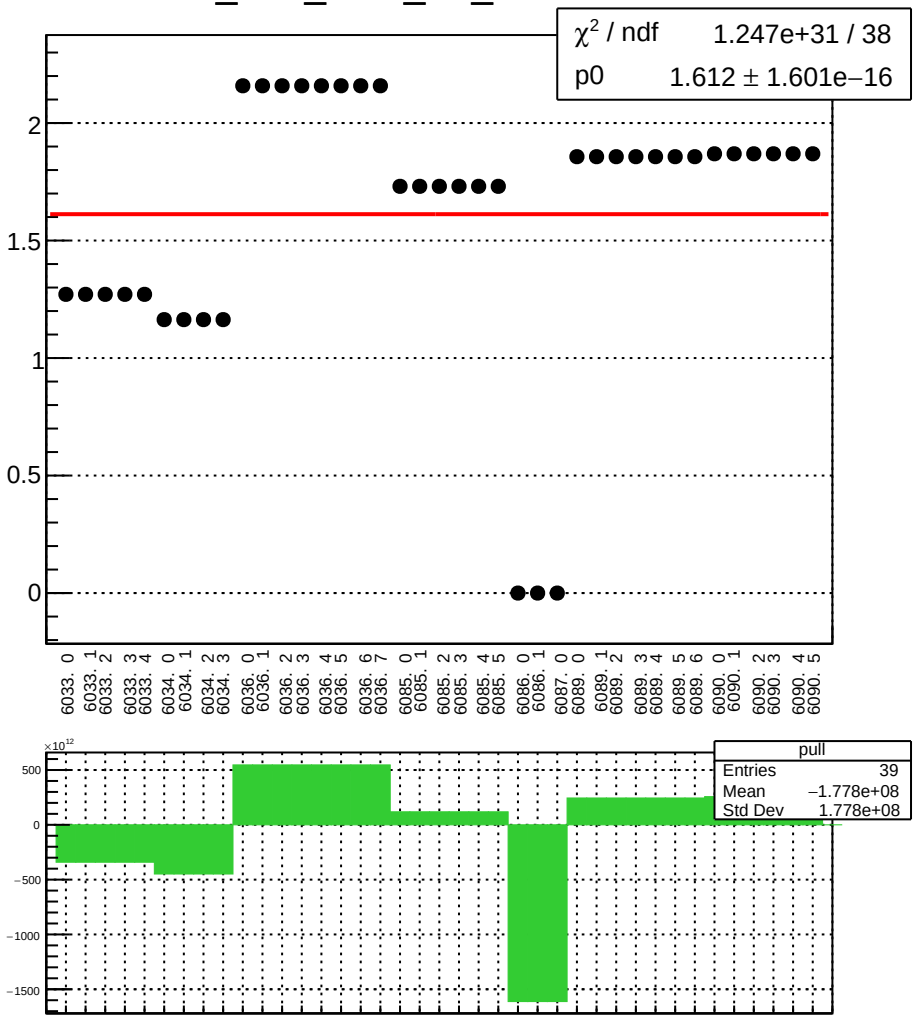

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

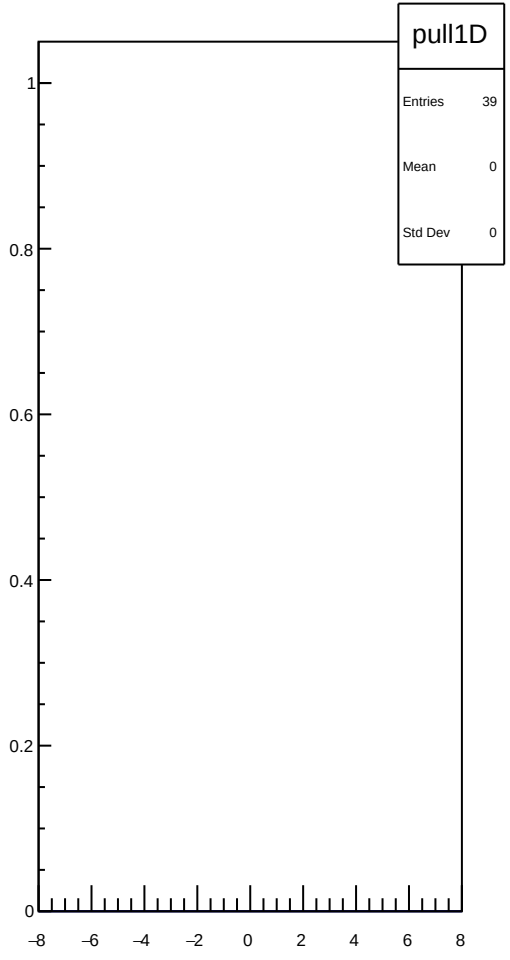

dit_4aY_coil7_err_mean vs run
χ² / ndf 9.399e+30 / 38
p0 1.552 ± 1.601e−16
2
1.5
1
0.5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull
Entries 39
Mean 8.346e+07
Std Dev 8.346e+07
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

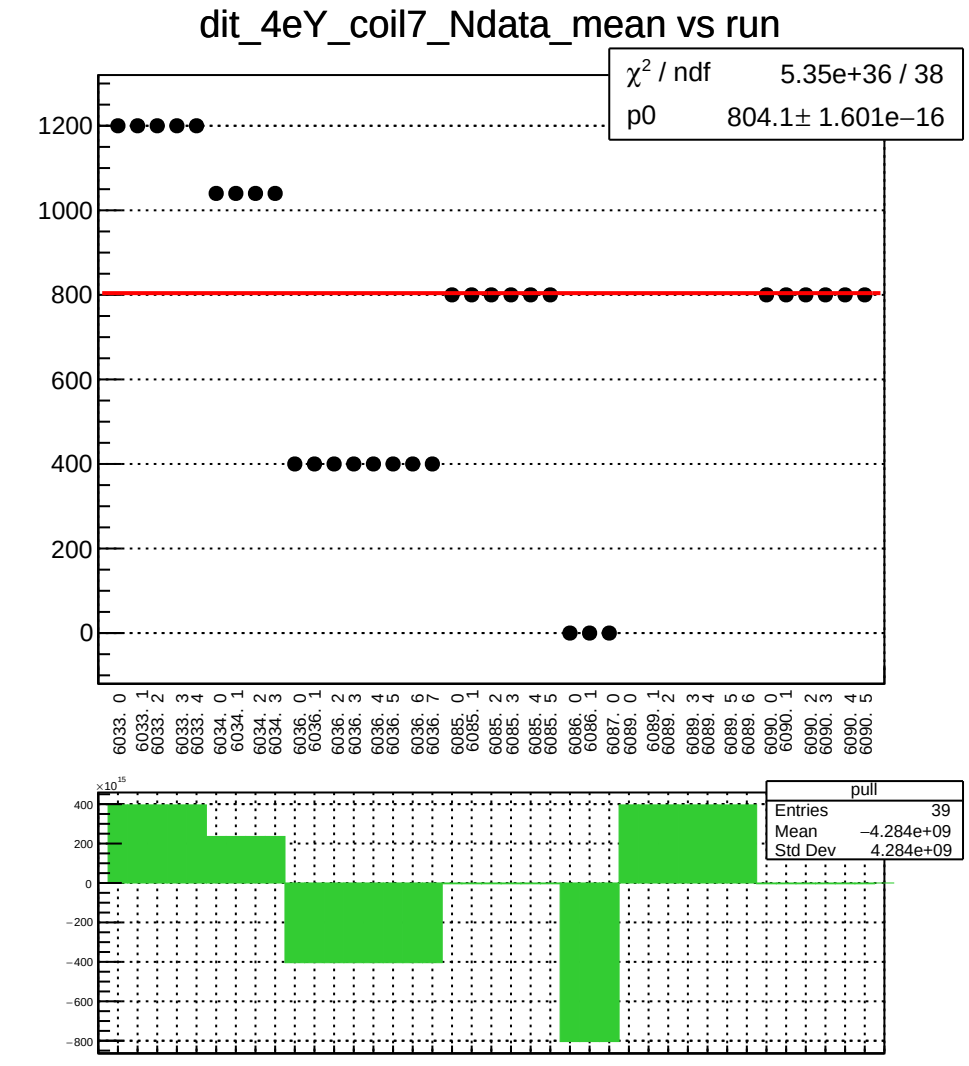

dit_4aY_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

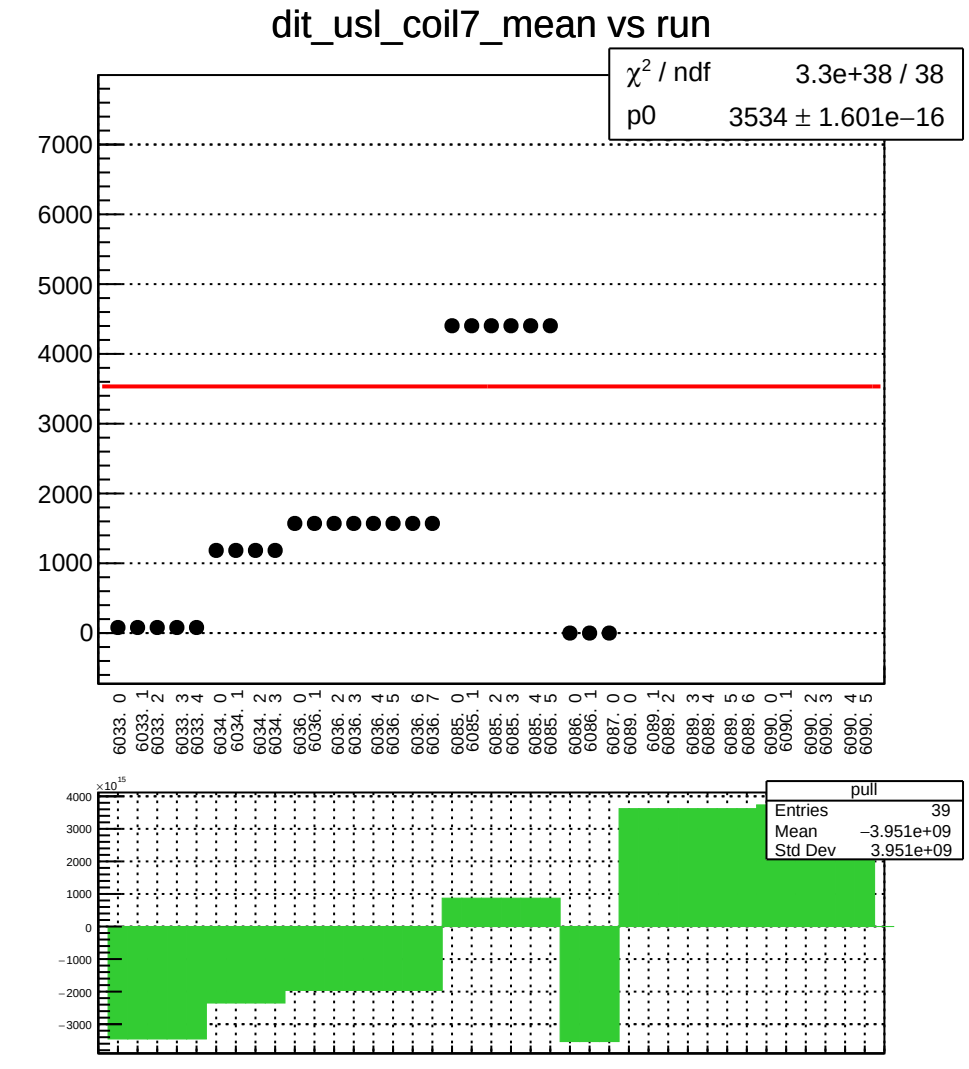

dit_4eY_coil7_mean vs run
χ² / ndf 1.334e+33 / 38
p0 −12.88 ± 1.601e−16
0
−5
−10
−15
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
12
10
8
6
4
2
0
−2
−4
−6
pull
Entries 39
Mean −1.315e+09
Std Dev 1.315e+09

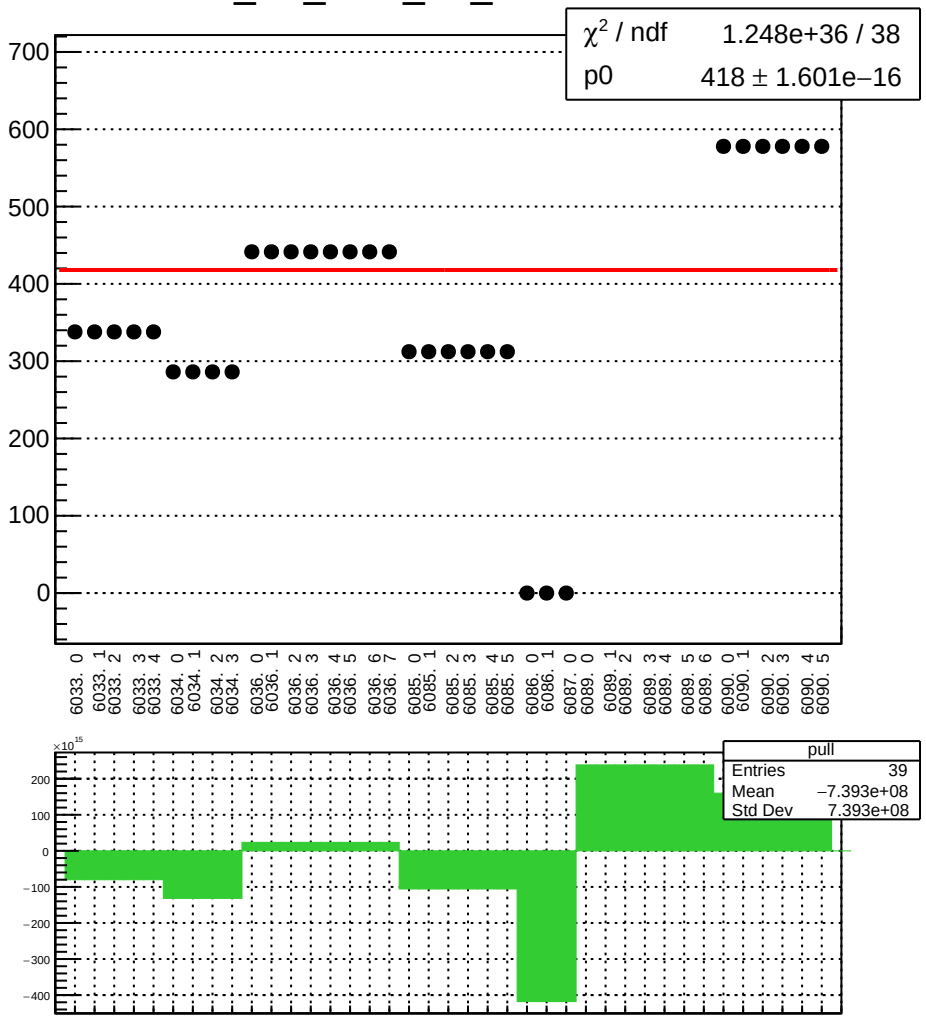

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

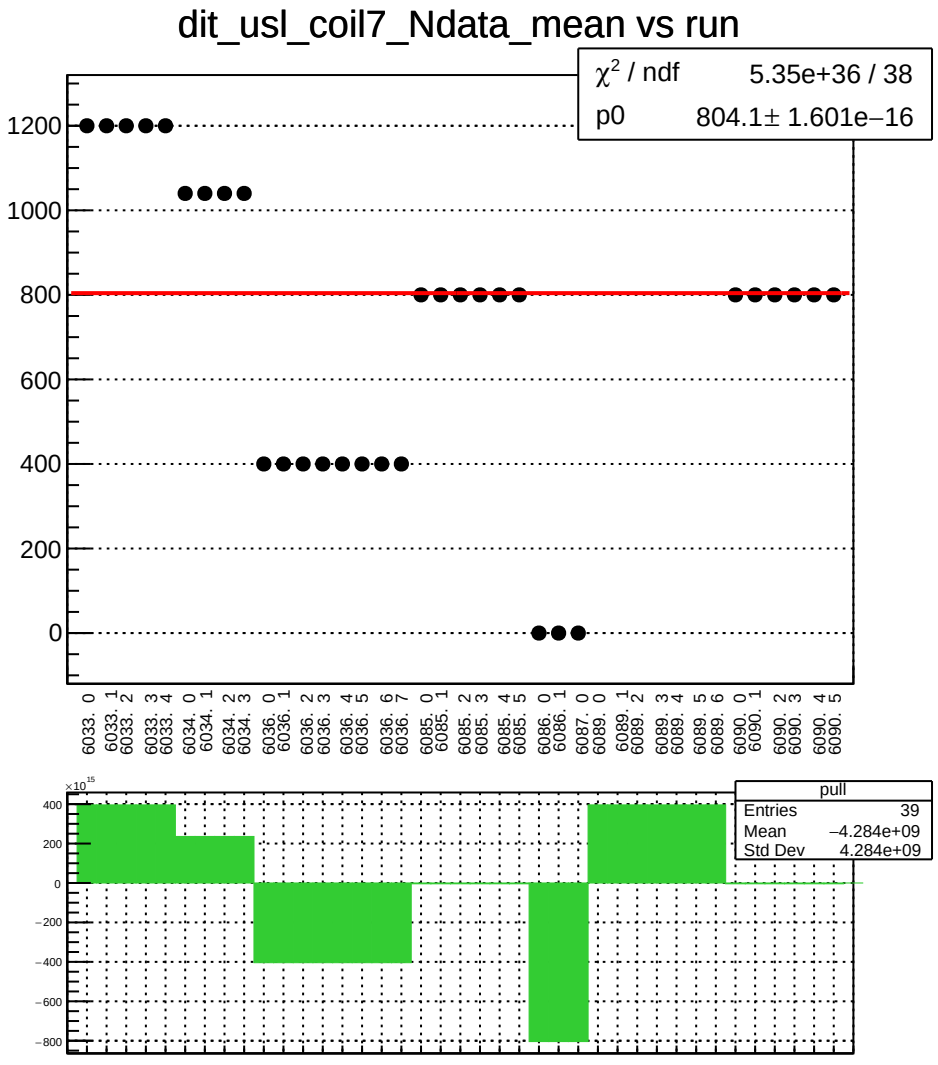

dit_4eY_coil7_err_mean vs run
χ² / ndf 1.247e+31 / 38
p0 1.612 ± 1.601e−16
pull
Entries 39
Mean −1.778e+08
Std Dev 1.778e+08
×10¹²

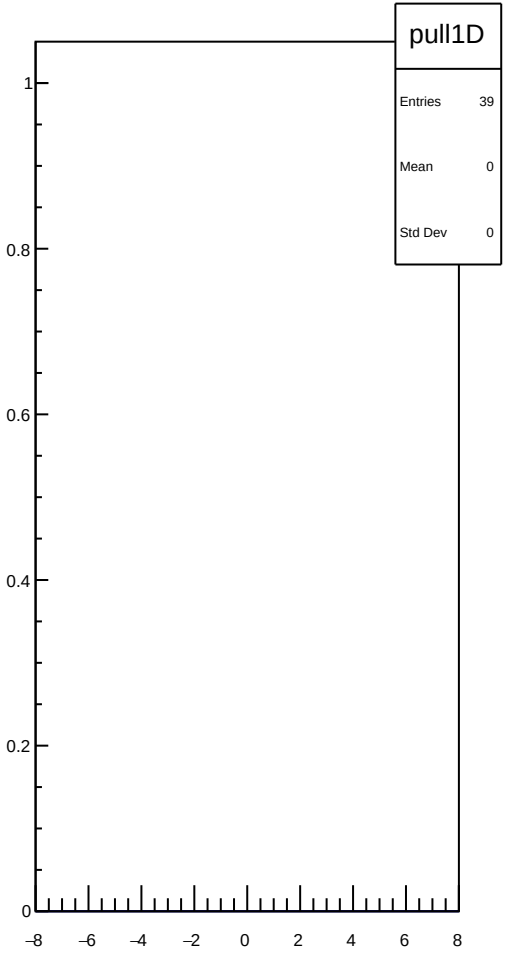

pull1D
Entries 39
Mean 0
Std Dev 0

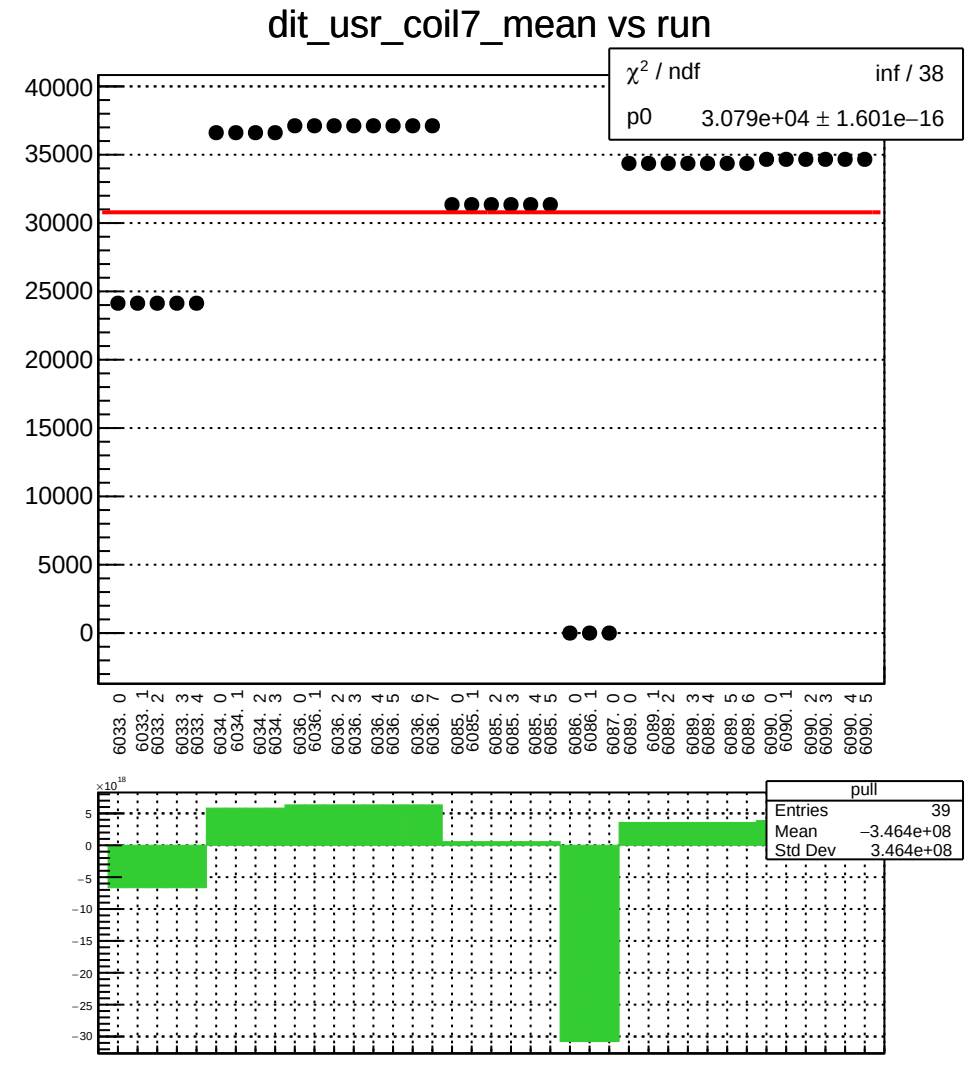

dit_4eY_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

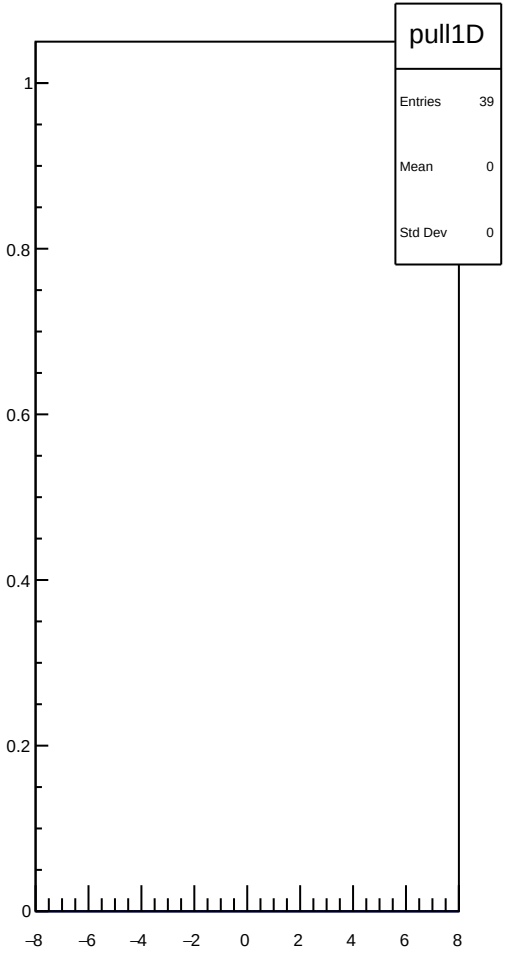

dit_usl_coil7_mean vs run
χ² / ndf 3.3e+38 / 38
p0 3534 ± 1.601e−16
7000
6000
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 39
Mean −3.951e+09
Std Dev 3.951e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

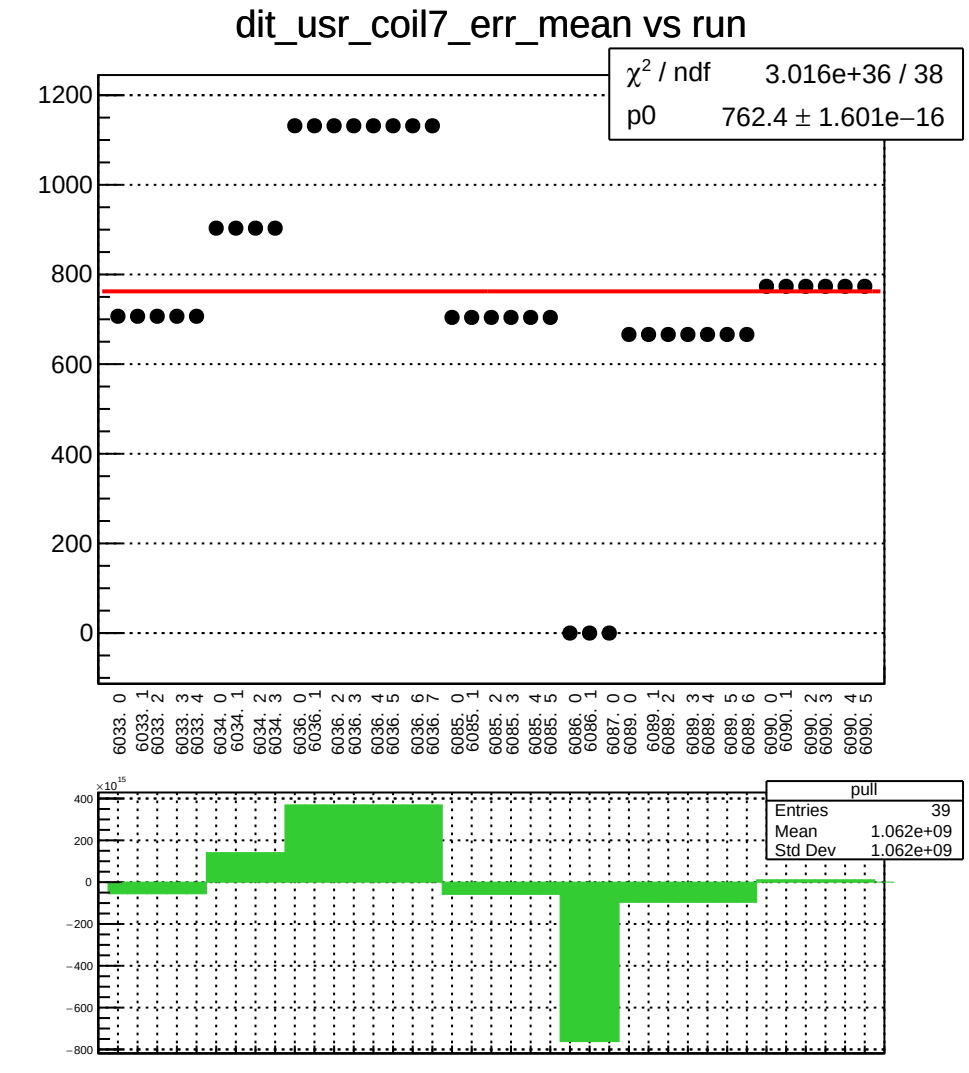

dit_usl_coil7_err_mean vs run
χ² / ndf 1.248e+36 / 38
p0 418 ± 1.601e−16
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
100
0
−100
−200
−300
−400
pull
Entries 39
Mean −7.393e+08
Std Dev 7.393e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

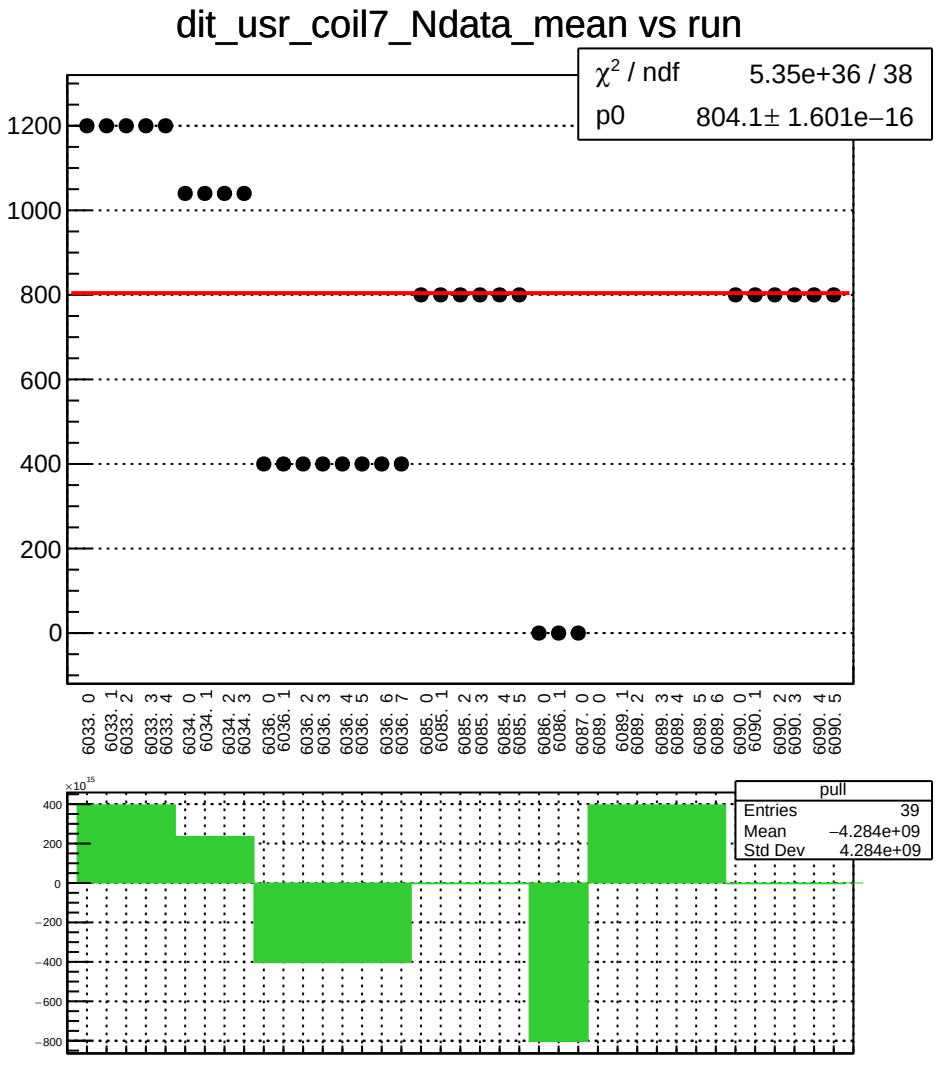

dit_usl_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09

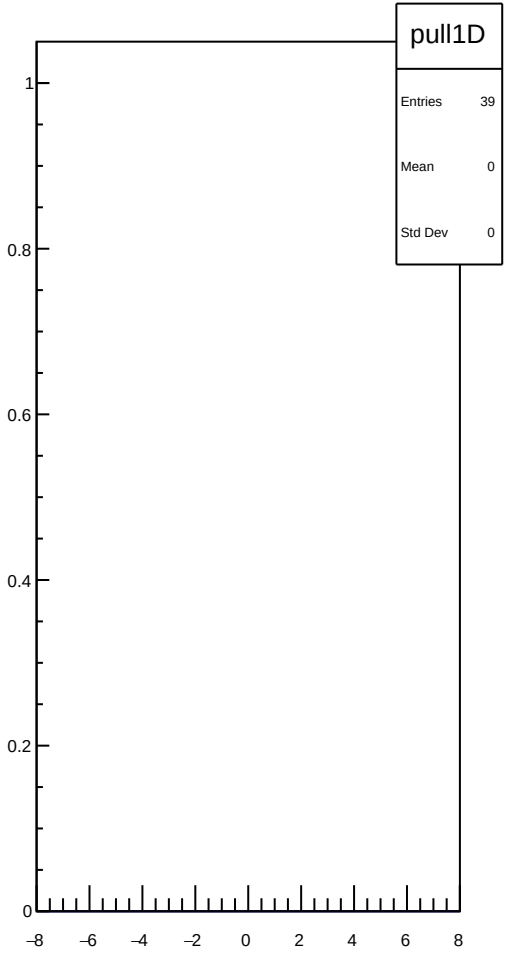

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

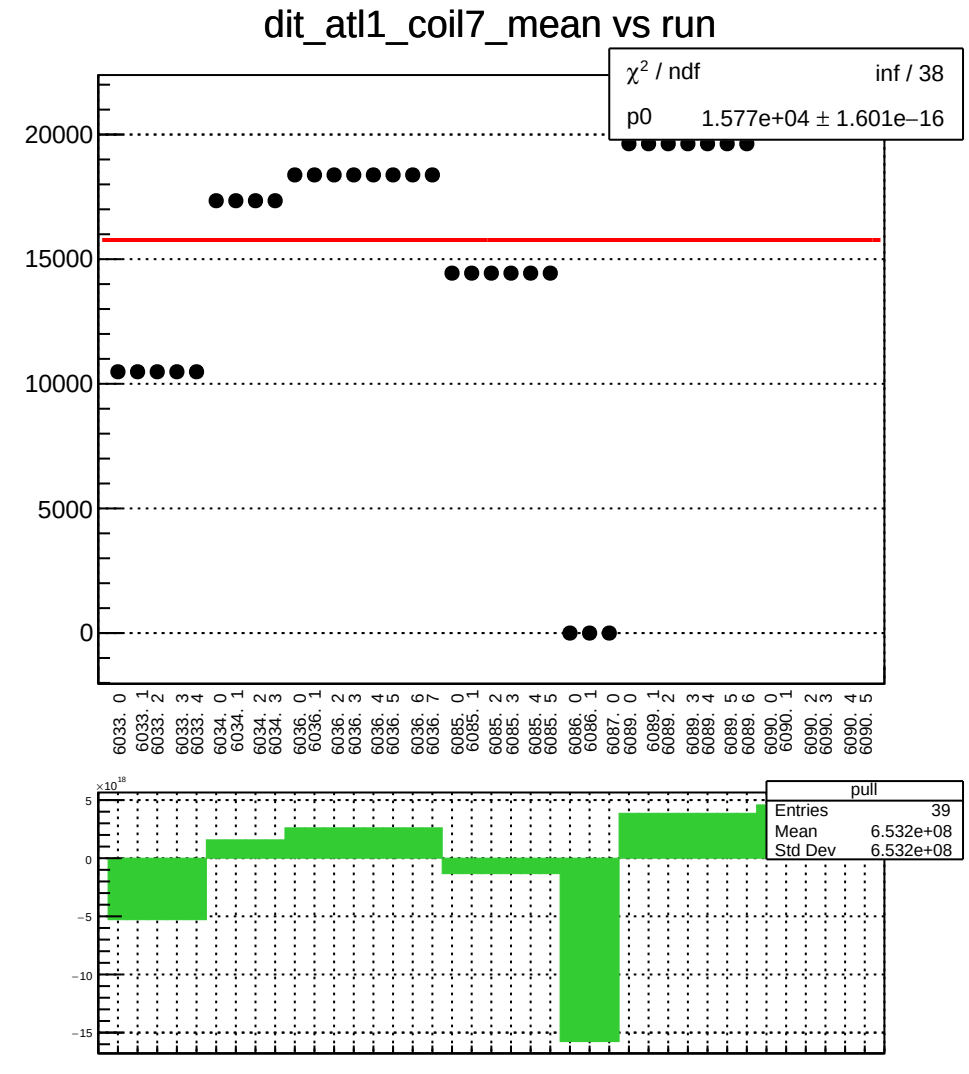

dit_usr_coil7_mean vs run
χ² / ndf inf / 38
p0 3.079e+04 ± 1.601e−16
40000
35000
30000
25000
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
5
0
−5
−10
−15
−20
−25
−30
pull
Entries 39
Mean −3.464e+08
Std Dev 3.464e+08

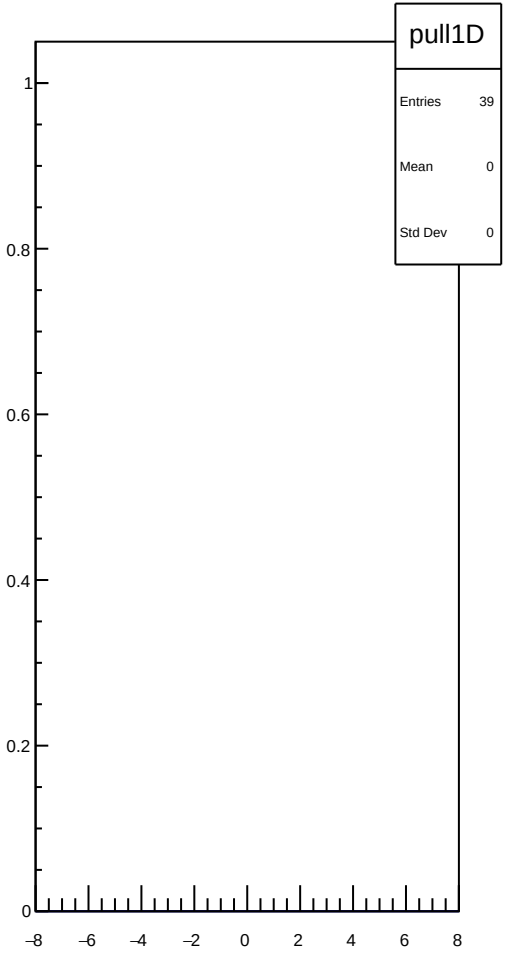

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

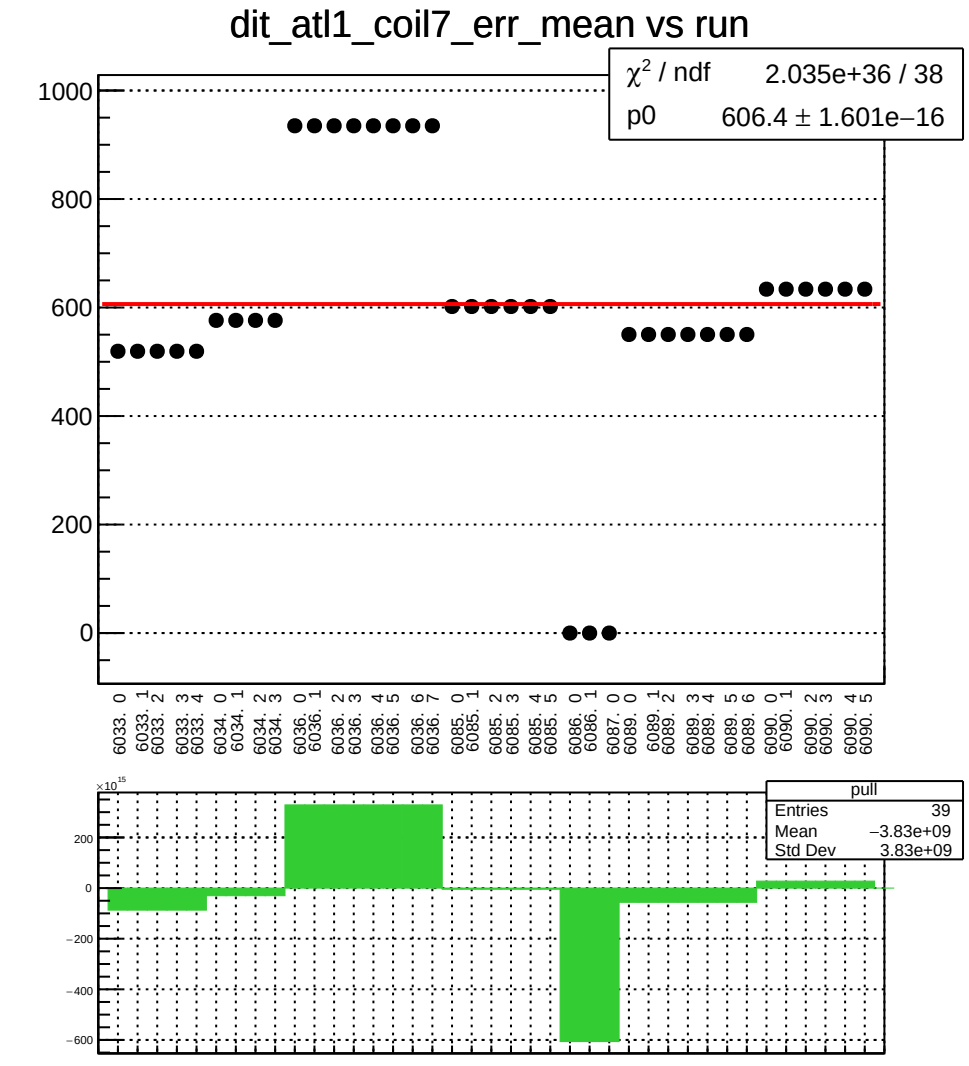

dit_usr_coil7_err_mean vs run
χ² / ndf 3.016e+36 / 38
p0 762.4 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean 1.062e+09
Std Dev 1.062e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

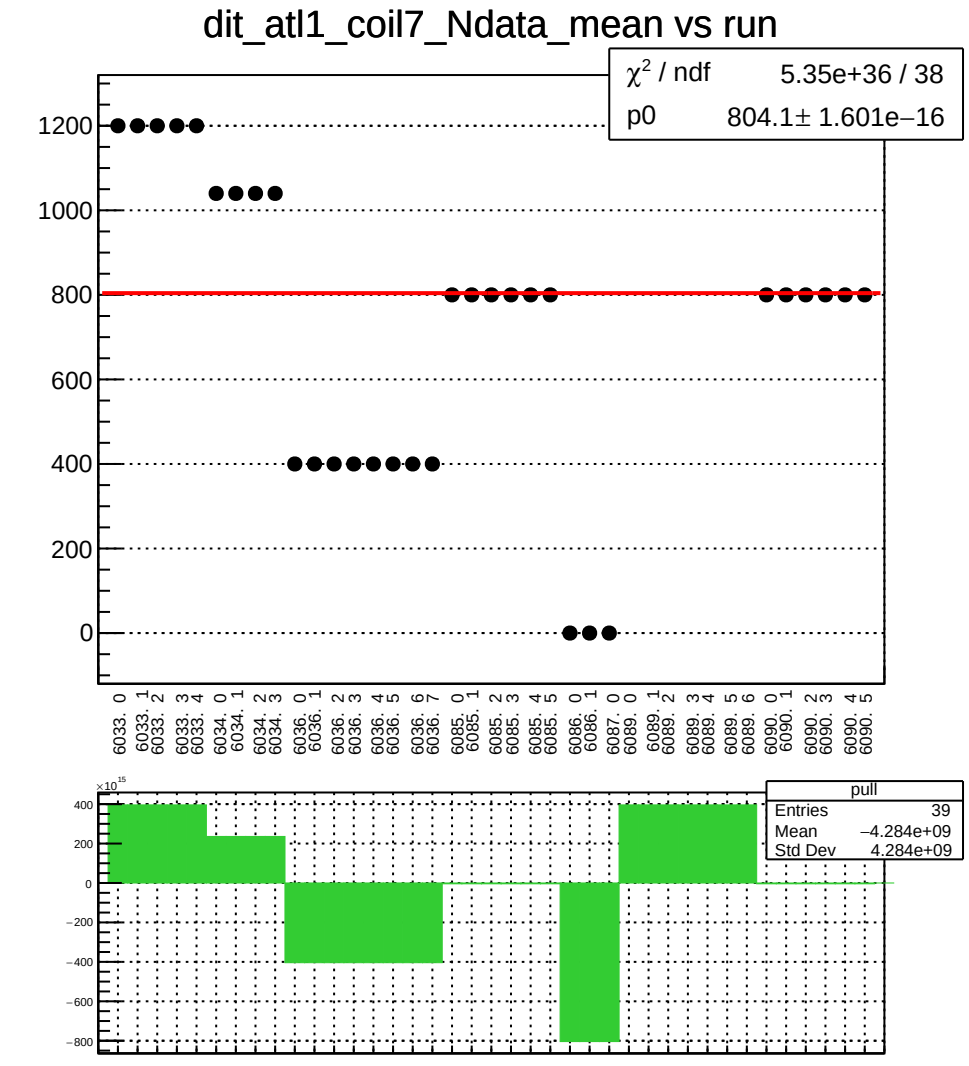

dit_usr_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09

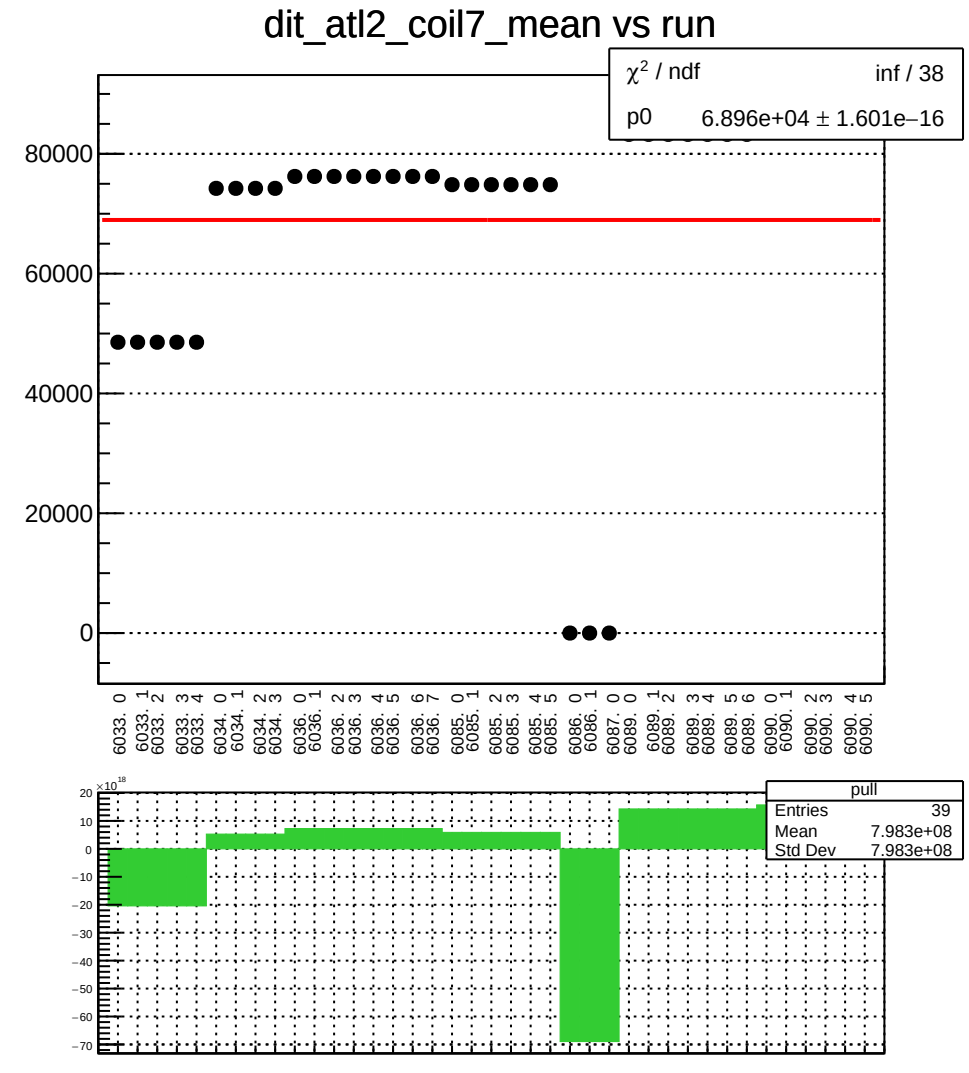

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

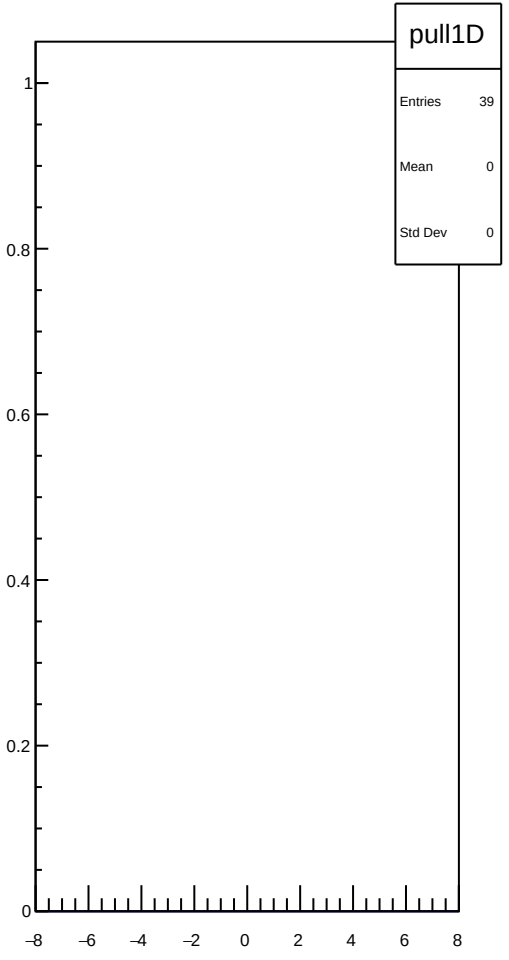

dit_atl1_coil7_mean vs run
χ² / ndf inf / 38
p0 1.577e+04 ± 1.601e−16
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
5
0
−5
−10
−15
pull
Entries 39
Mean 6.532e+08
Std Dev 6.532e+08

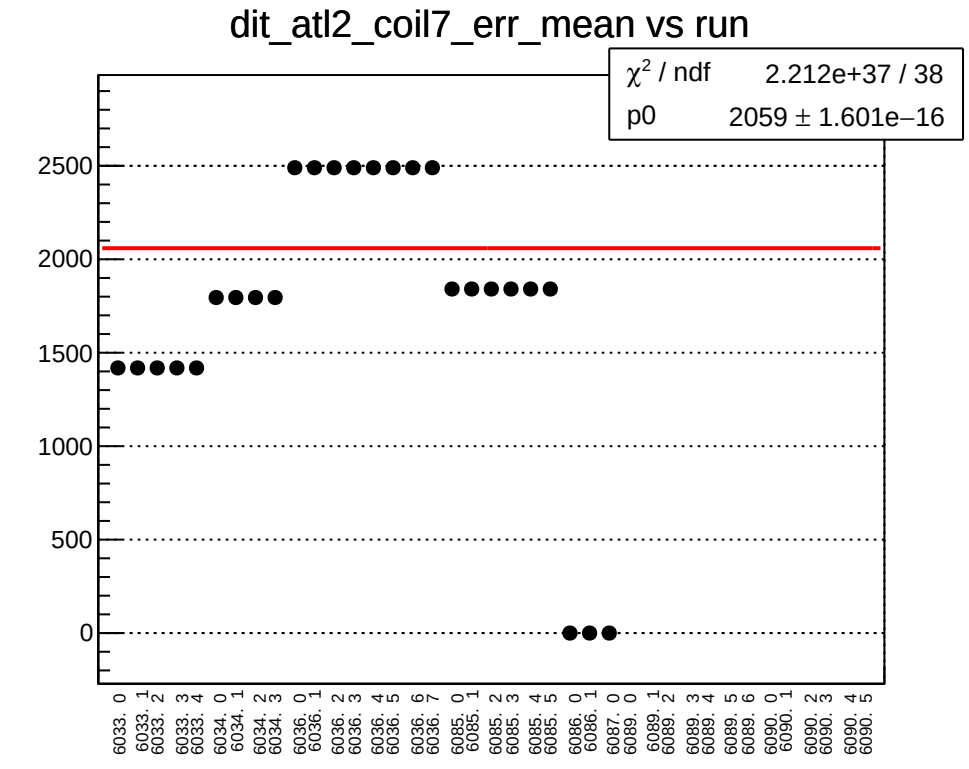

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

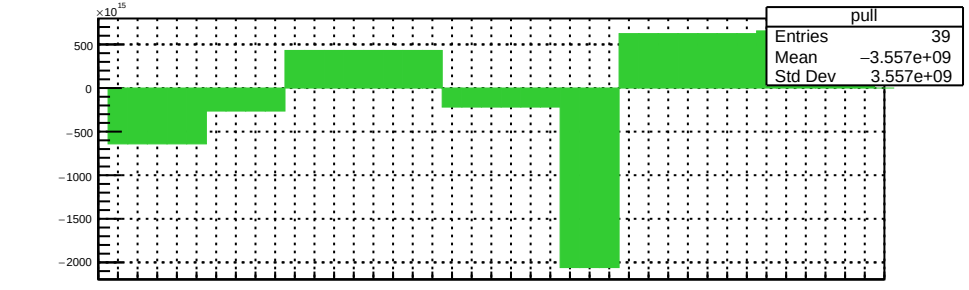

dit_atl1_coil7_err_mean vs run
χ² / ndf 2.035e+36 / 38
p0 606.4 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
pull
Entries 39
Mean −3.83e+09
Std Dev 3.83e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

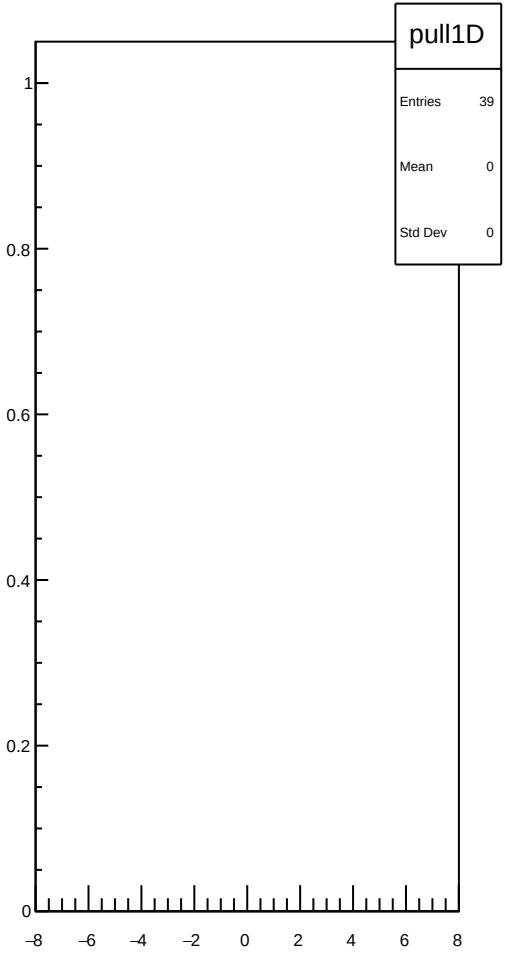

dit_atl1_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

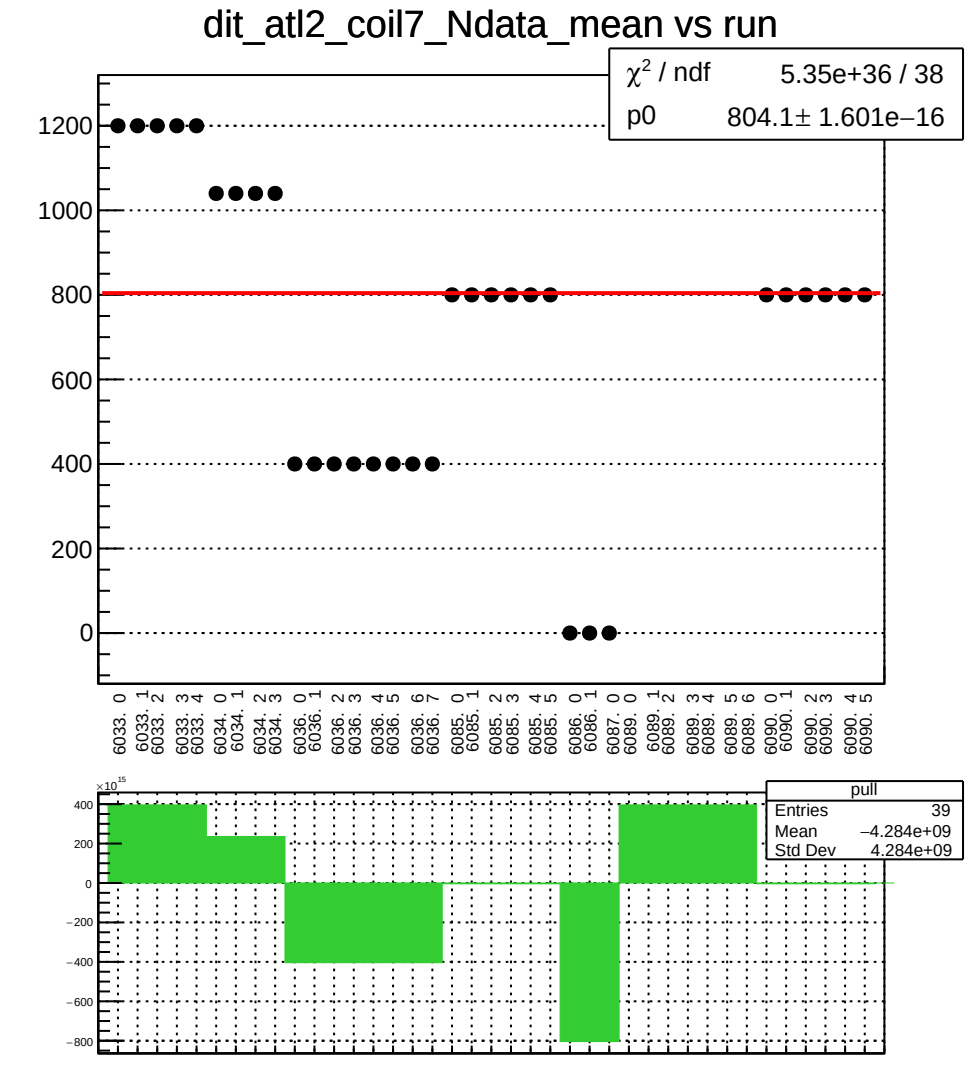

dit_atl2_coil7_mean vs run
χ² / ndf inf / 38
p0 6.896e+04 ± 1.601e−16
80000
60000
40000
20000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
20
10
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 39
Mean 7.983e+08
Std Dev 7.983e+08

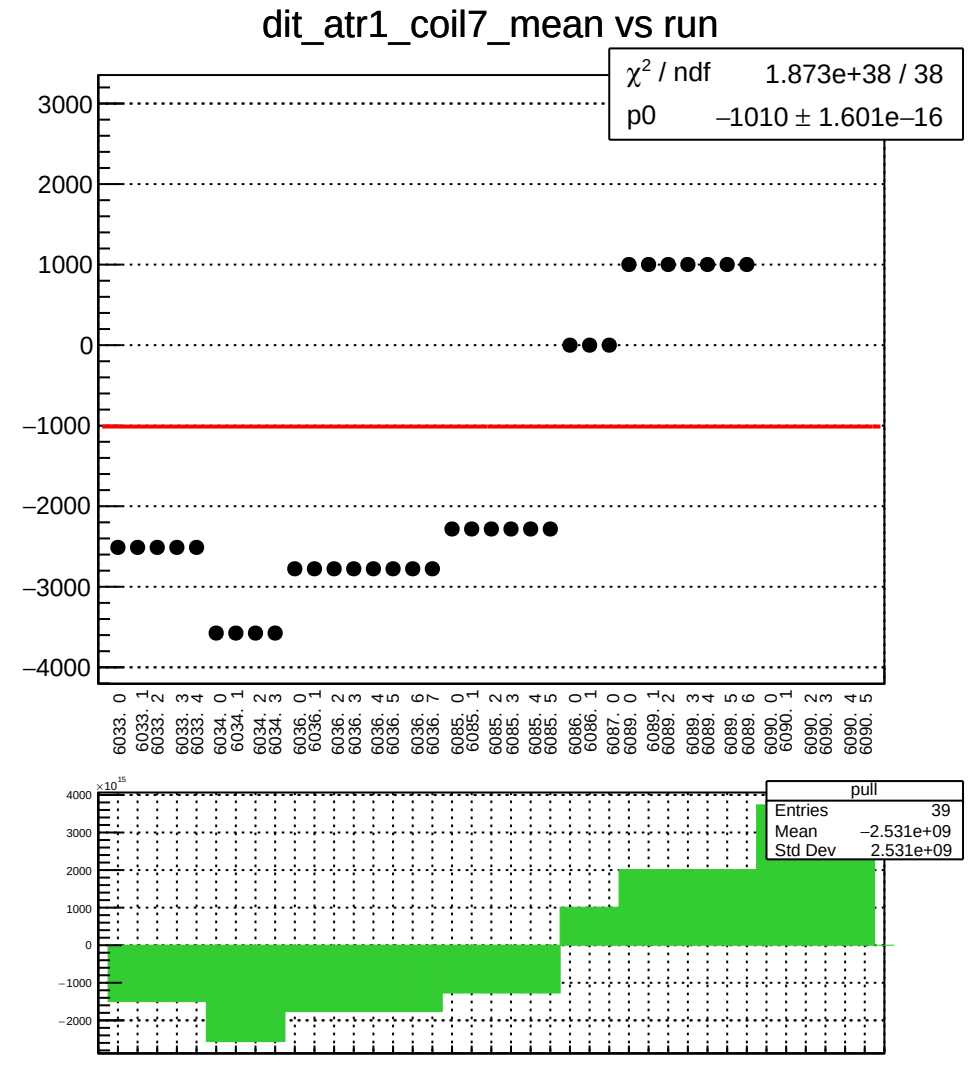

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

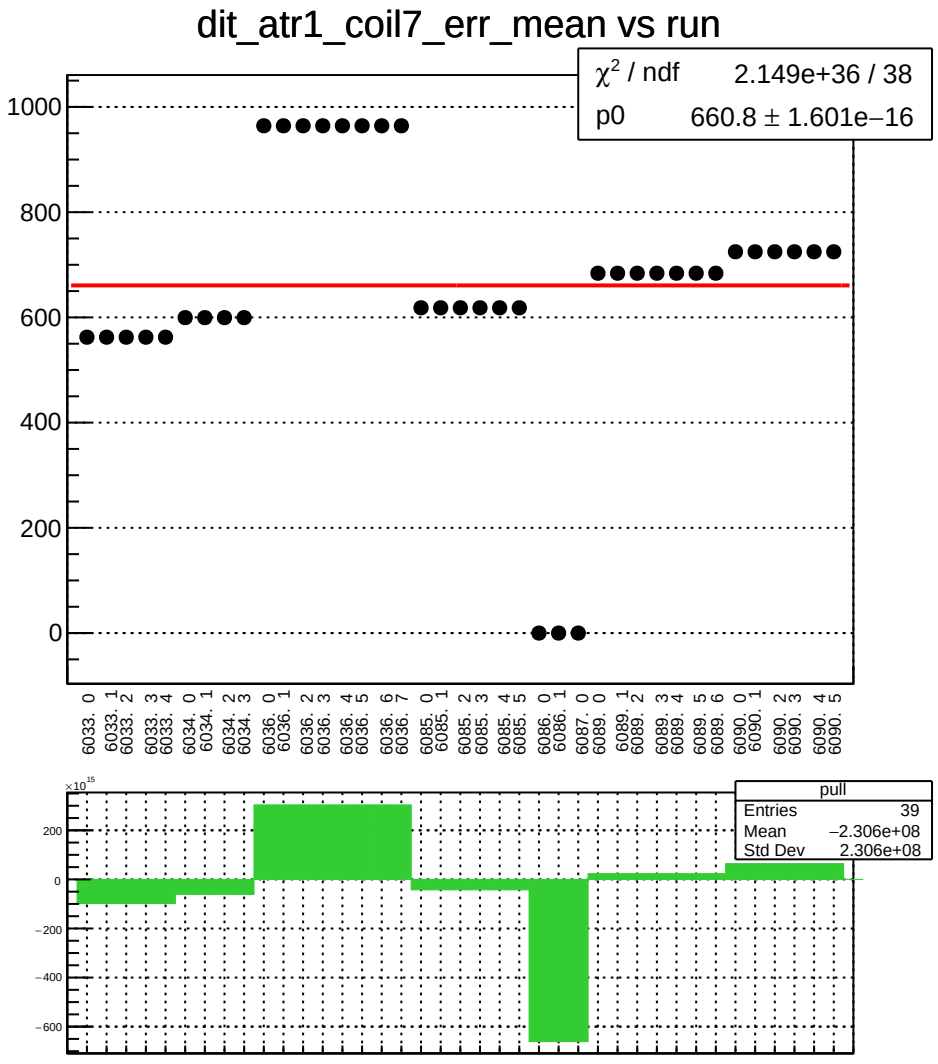

dit_atl2_coil7_err_mean vs run
χ² / ndf 2.212e+37 / 38
p0 2059 ± 1.601e−16
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

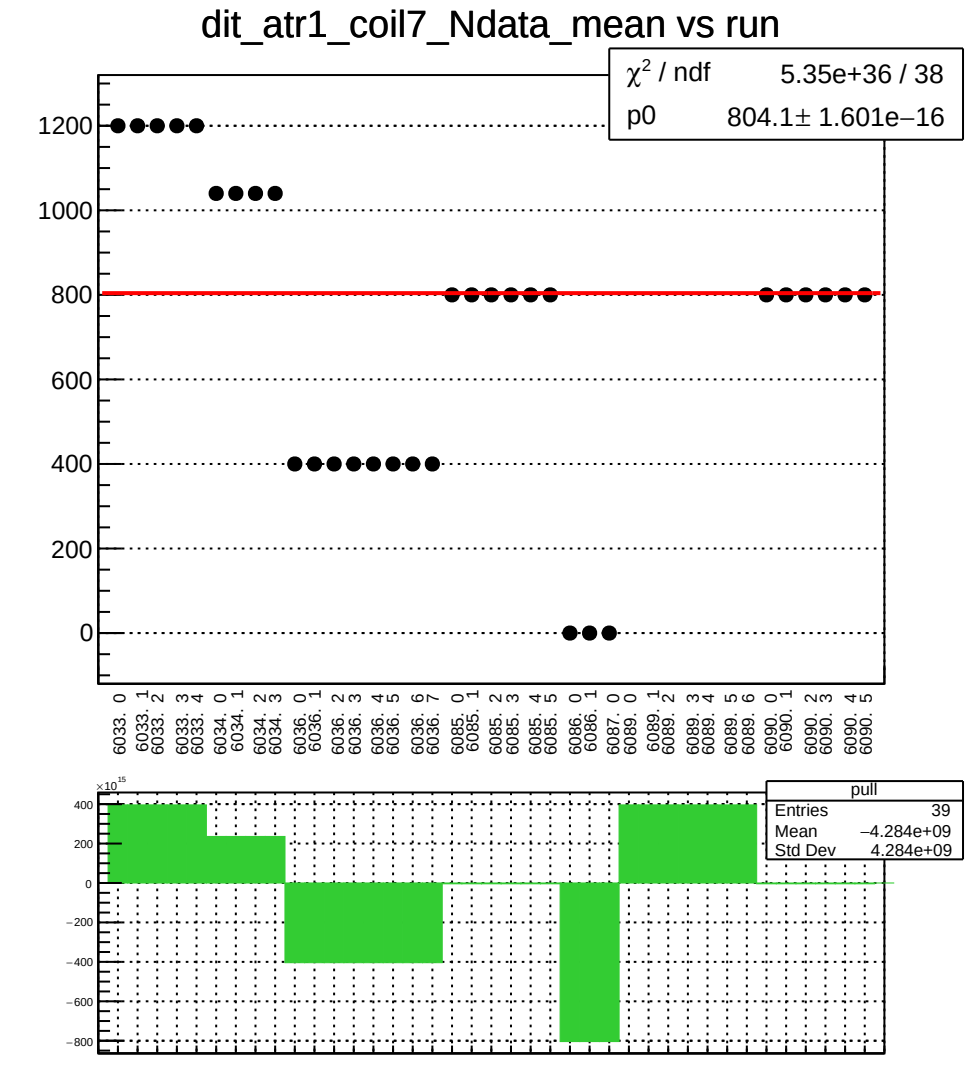

×10¹⁵
500
0
−500
−1000
−1500
−2000
pull
Entries 39
Mean −3.557e+09
Std Dev 3.557e+09

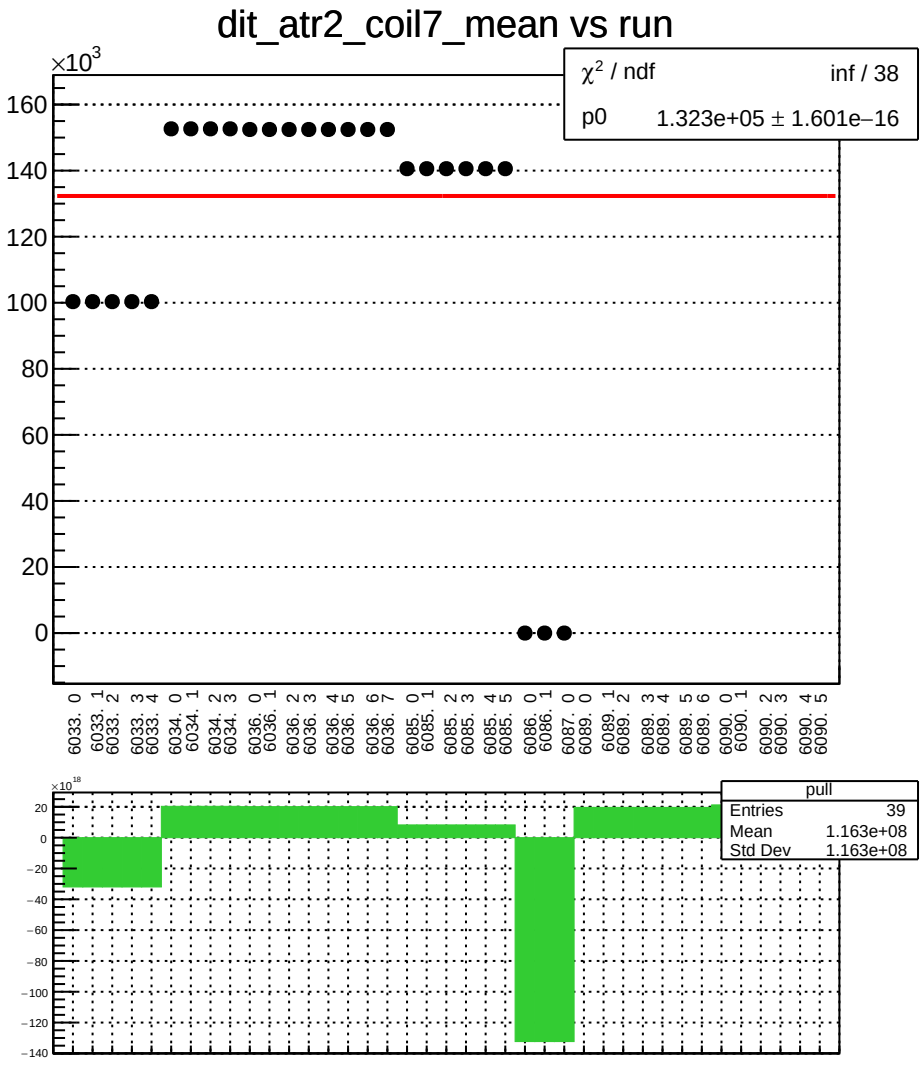

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

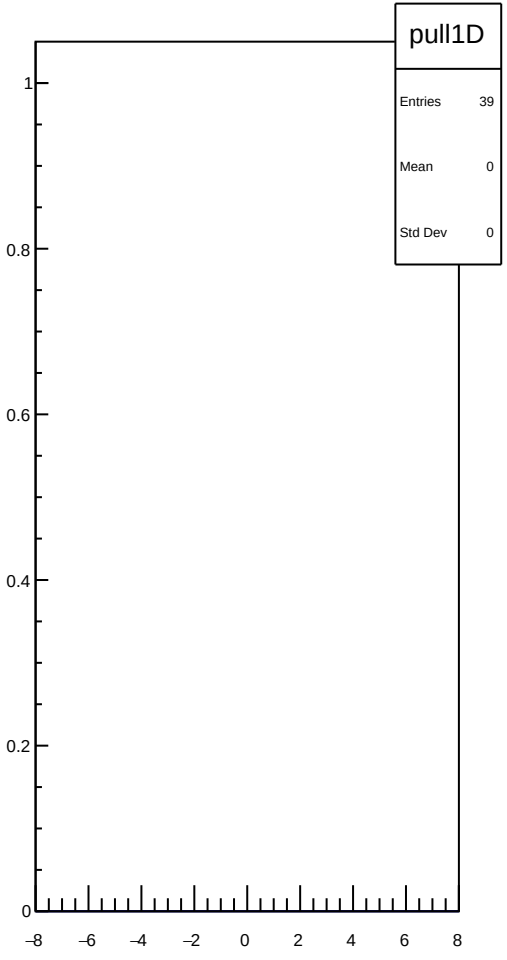

dit_atl2_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

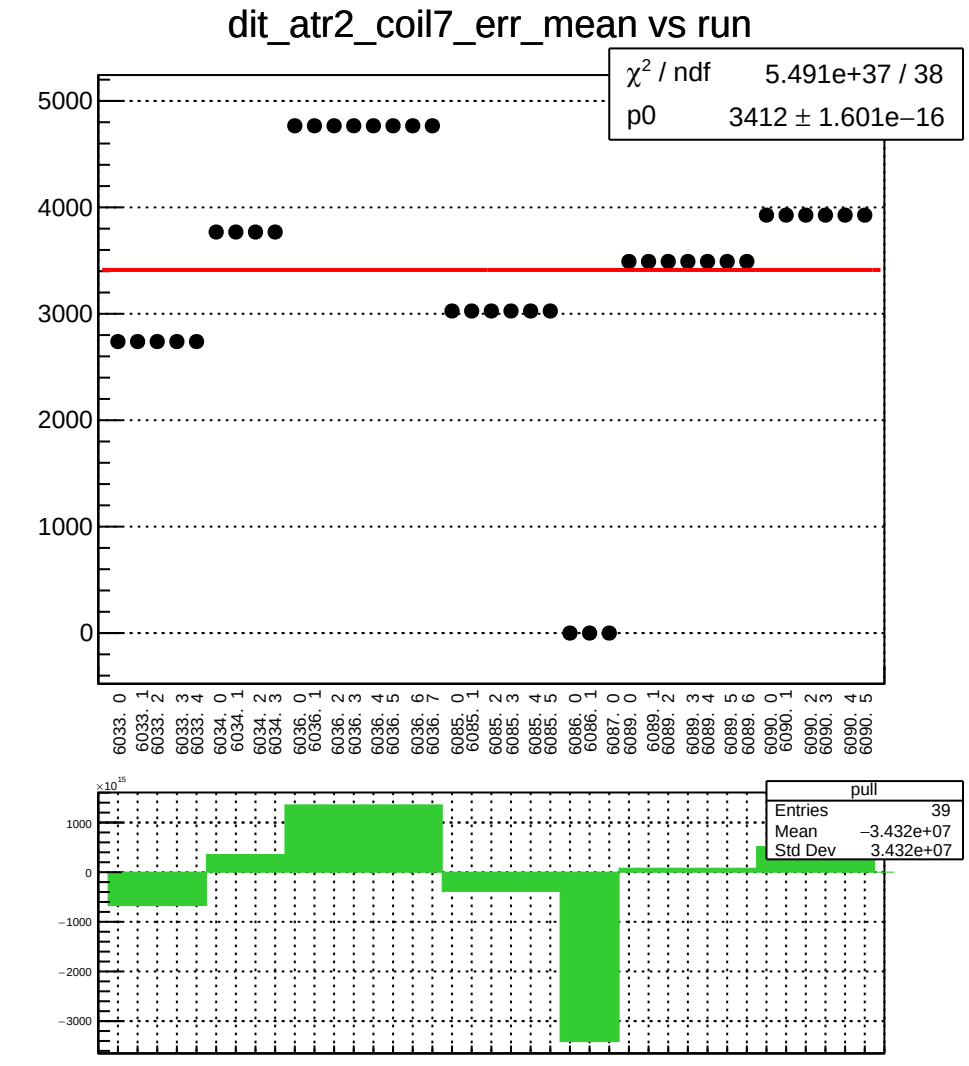

dit_atr1_coil7_mean vs run
χ² / ndf 1.873e+38 / 38
p0 −1010 ± 1.601e−16
3000
2000
1000
0
−1000
−2000
−3000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 39
Mean −2.531e+09
Std Dev 2.531e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

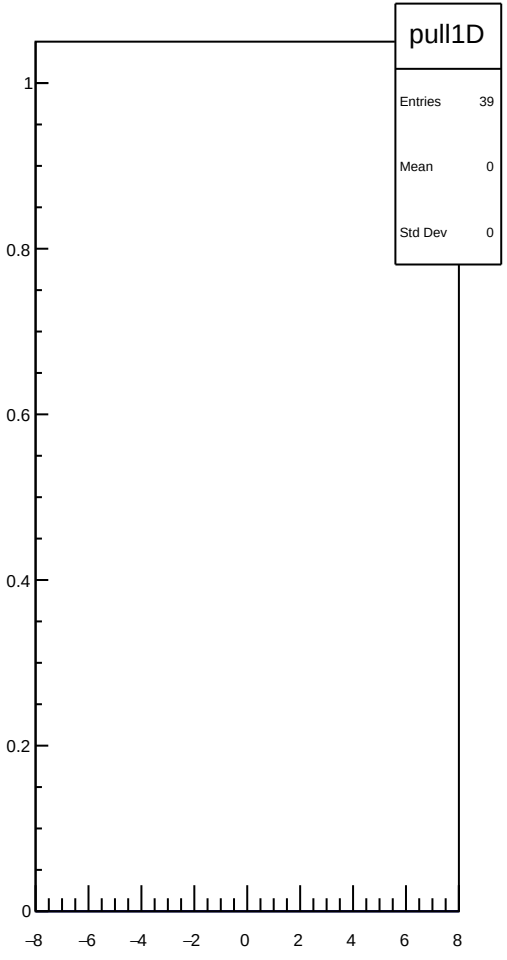

dit_atr1_coil7_err_mean vs run
χ² / ndf 2.149e+36 / 38
p0 660.8 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
pull
Entries 39
Mean −2.306e+08
Std Dev 2.306e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

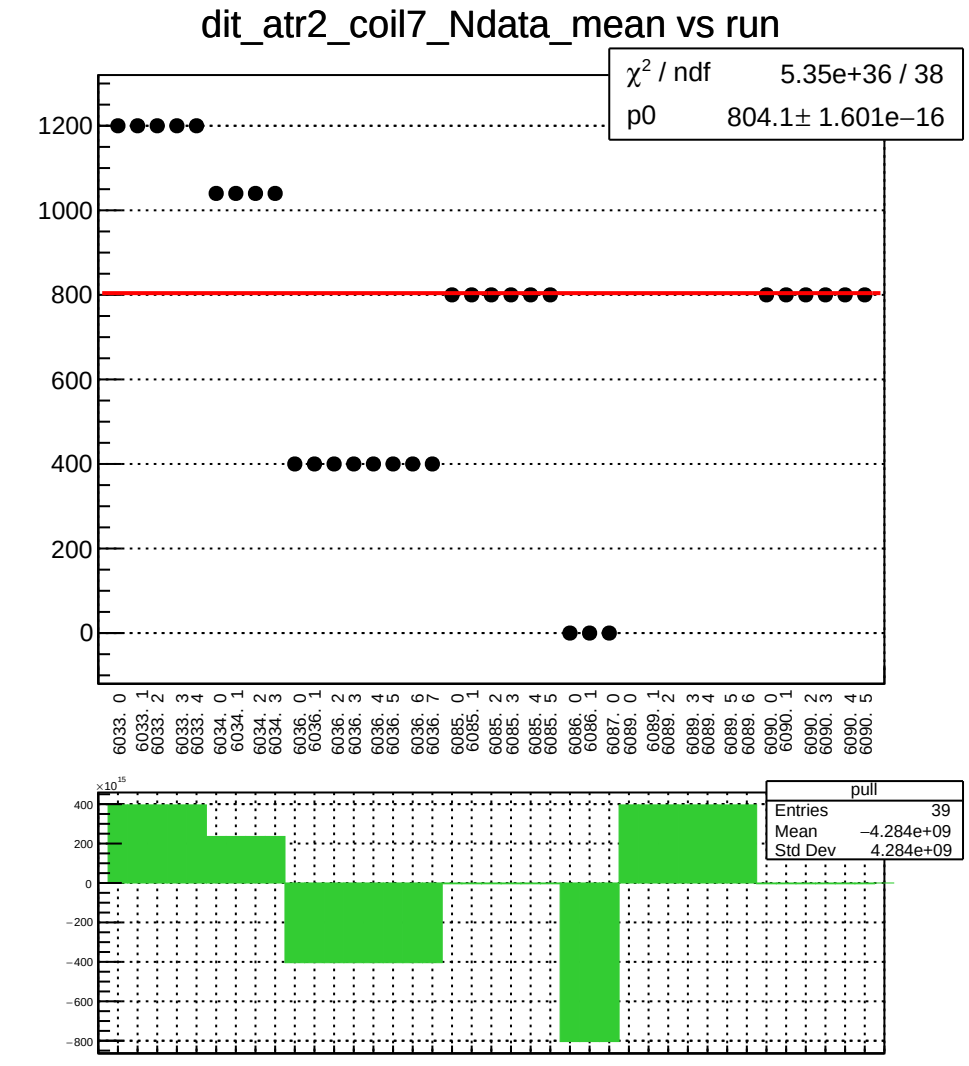

dit_atr1_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

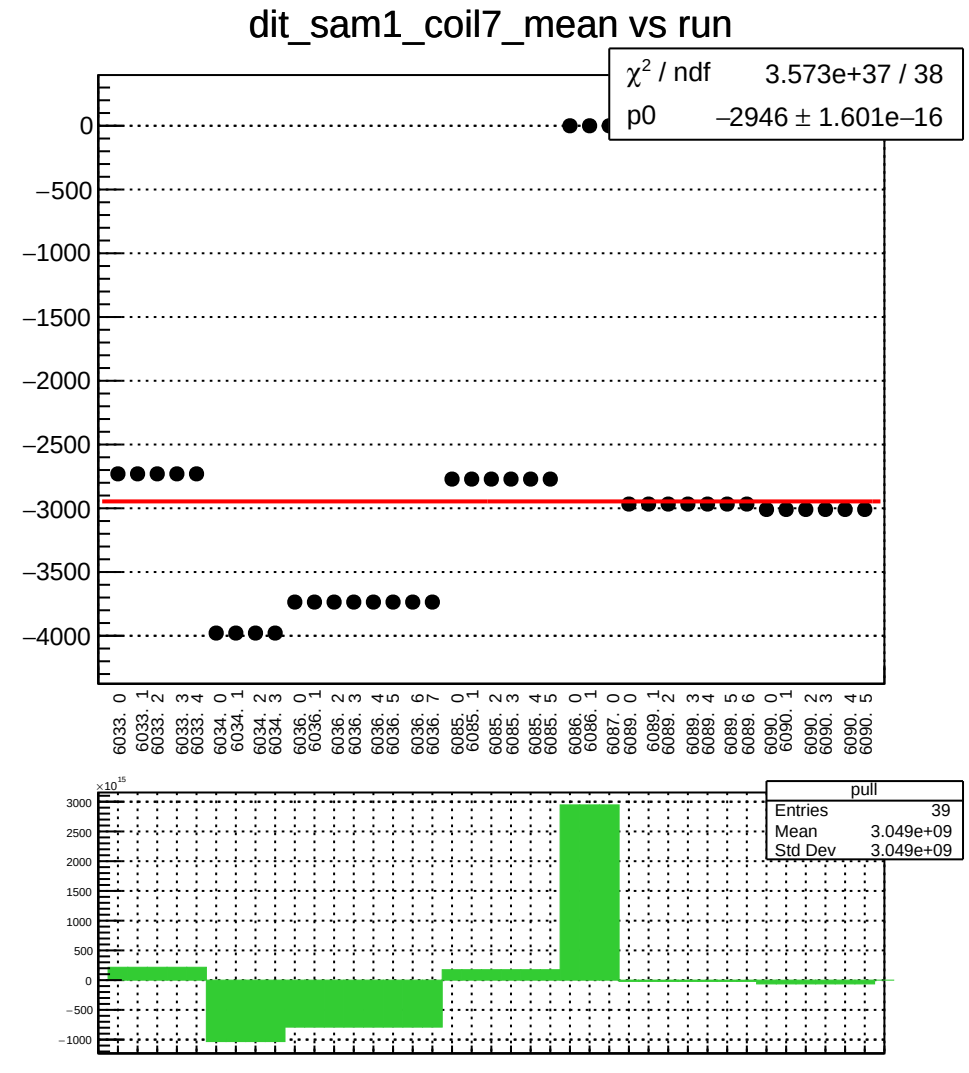

dit_atr2_coil7_mean vs run
×10^3
χ² / ndf inf / 38
p0 1.323e+05 ± 1.601e−16
160
140
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10^18
pull
Entries 39
Mean 1.163e+08
Std Dev 1.163e+08
20
0
−20
−40
−60
−80
−100
−120
−140

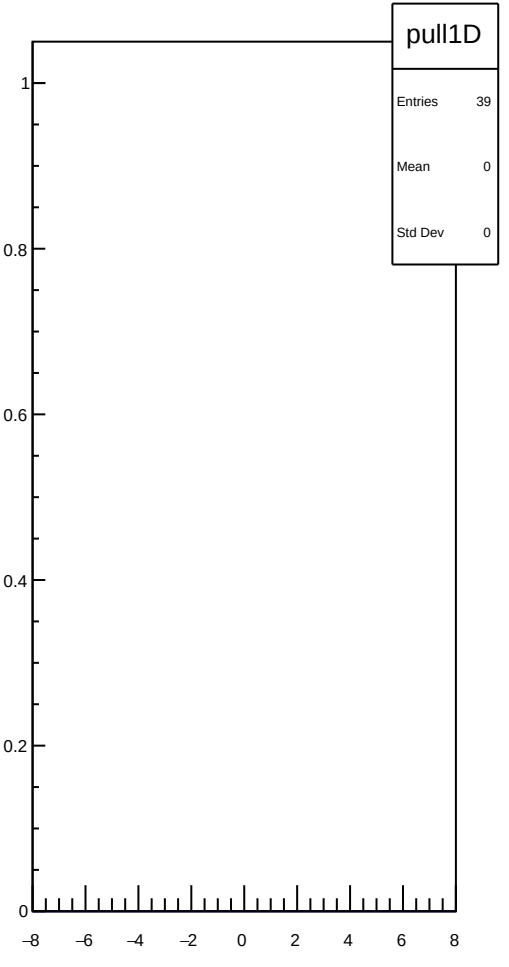

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

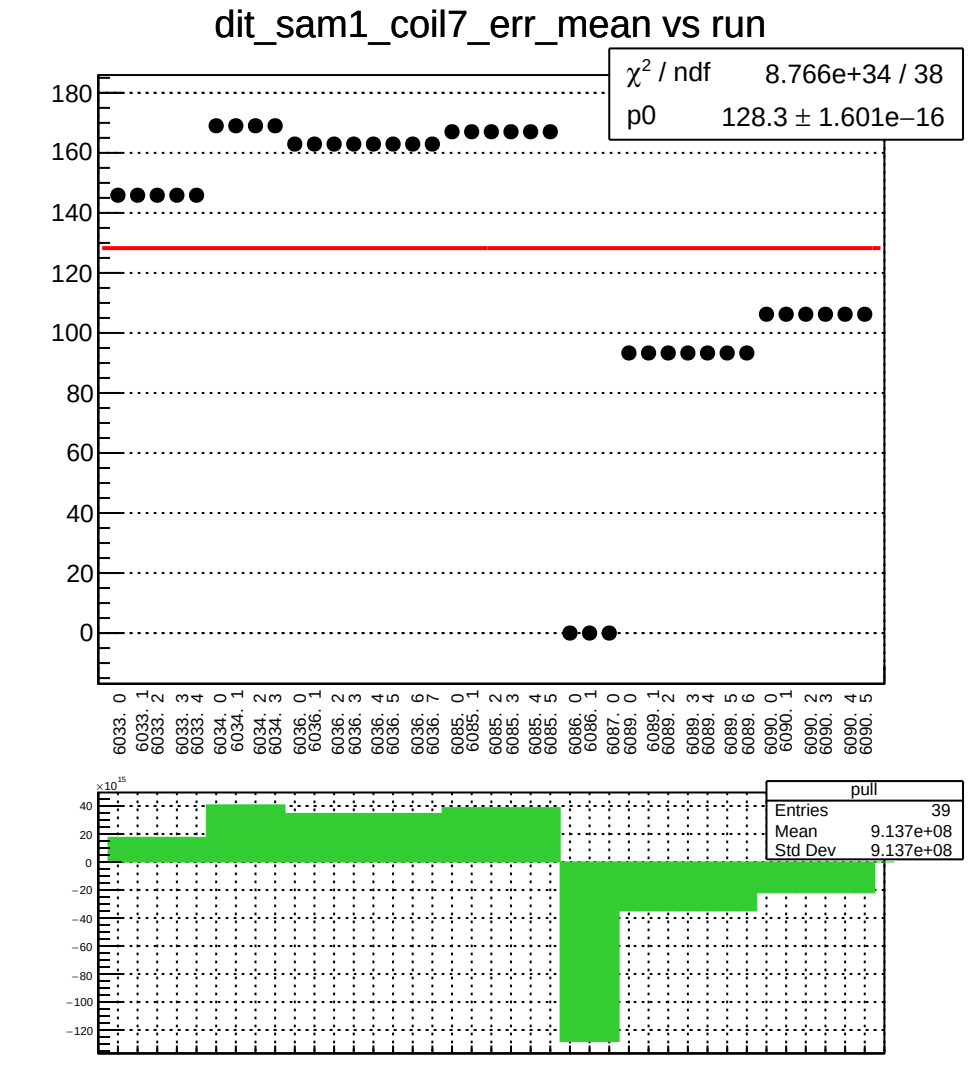

dit_atr2_coil7_err_mean vs run
χ² / ndf 5.491e+37 / 38
p0 3412 ± 1.601e−16
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1000
0
−1000
−2000
−3000
pull
Entries 39
Mean −3.432e+07
Std Dev 3.432e+07

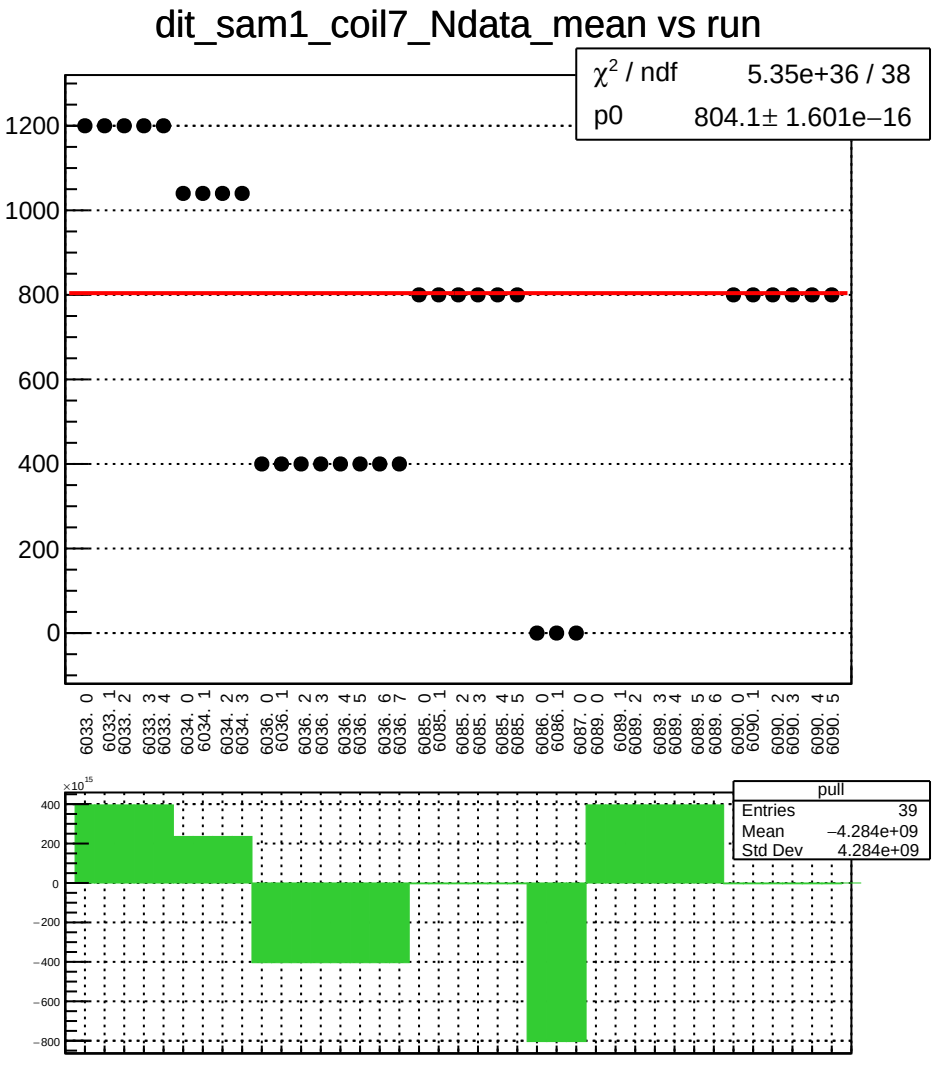

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

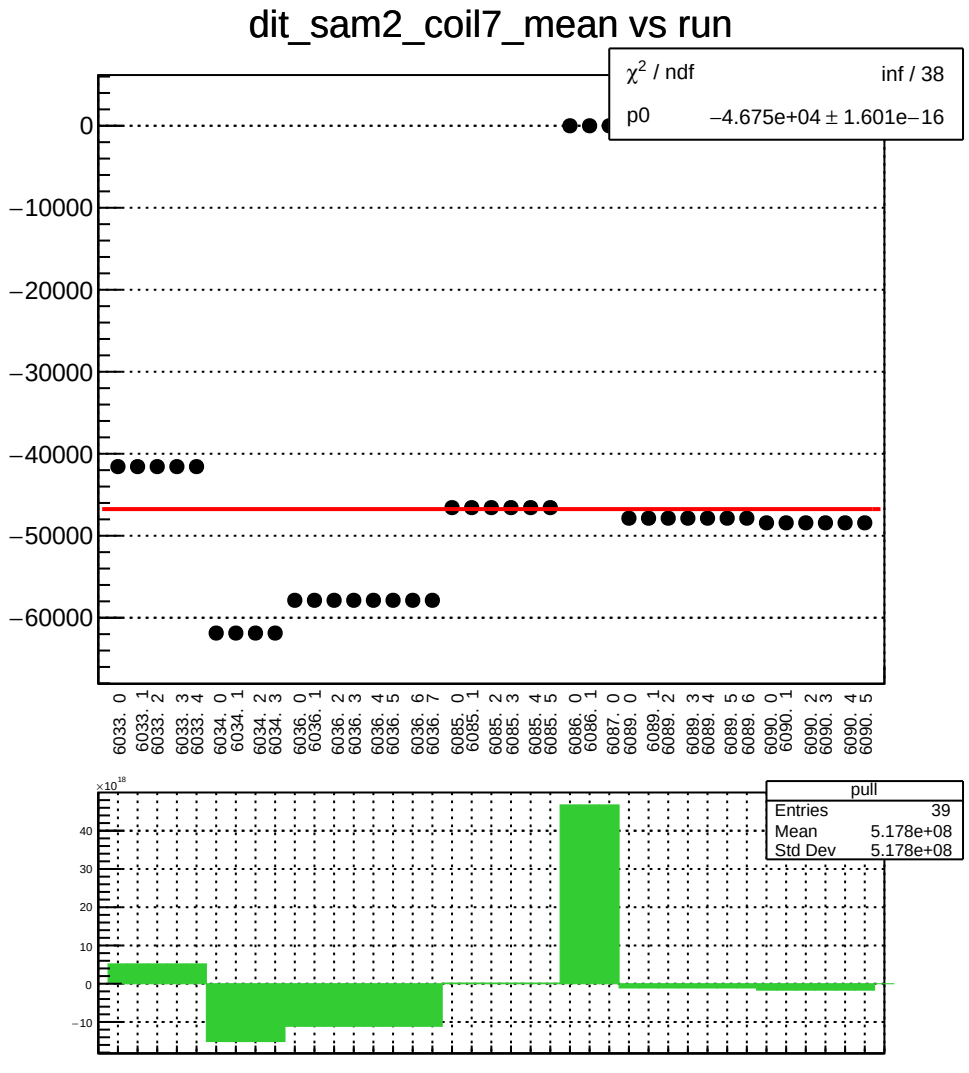

dit_atr2_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

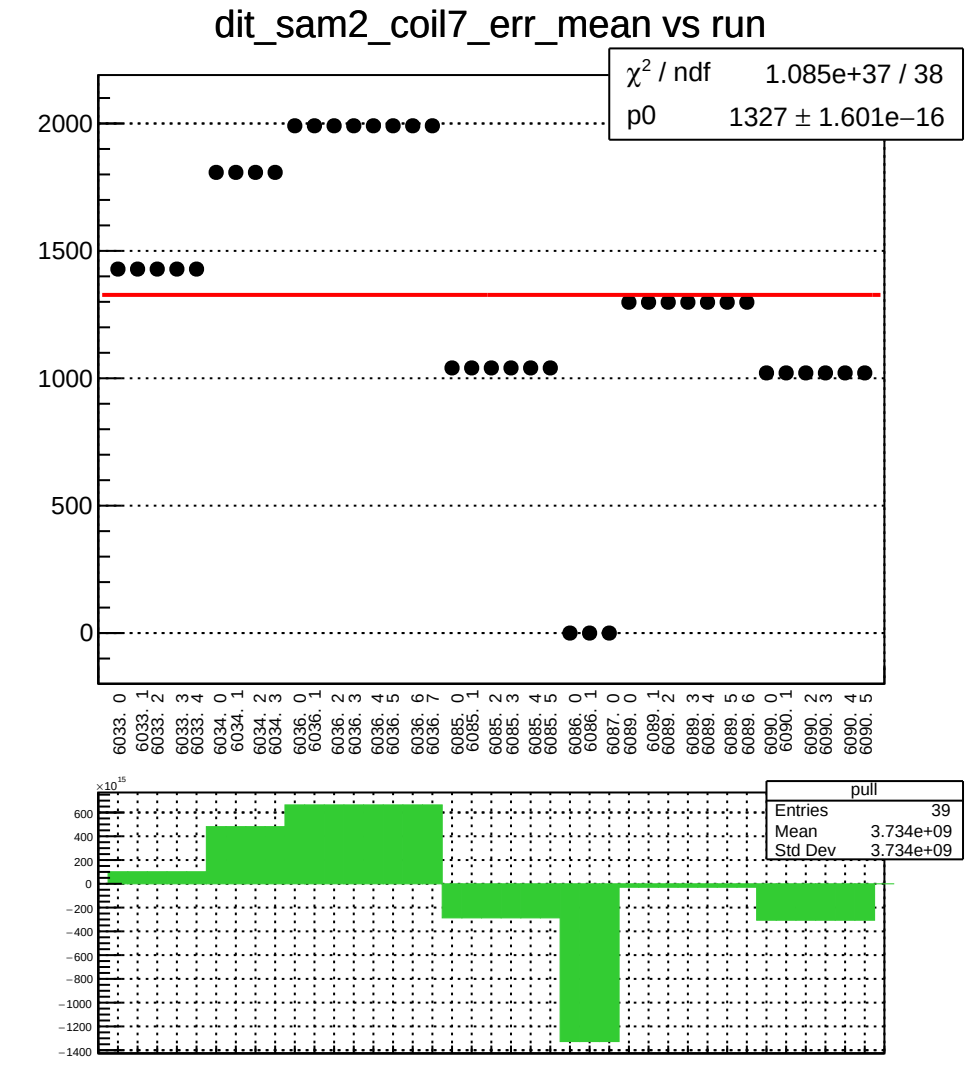

dit_sam1_coil7_mean vs run
χ² / ndf 3.573e+37 / 38
p0 −2946 ± 1.601e−16
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
3000
2500
2000
1500
1000
500
0
−500
−1000
pull
Entries 39
Mean 3.049e+09
Std Dev 3.049e+09

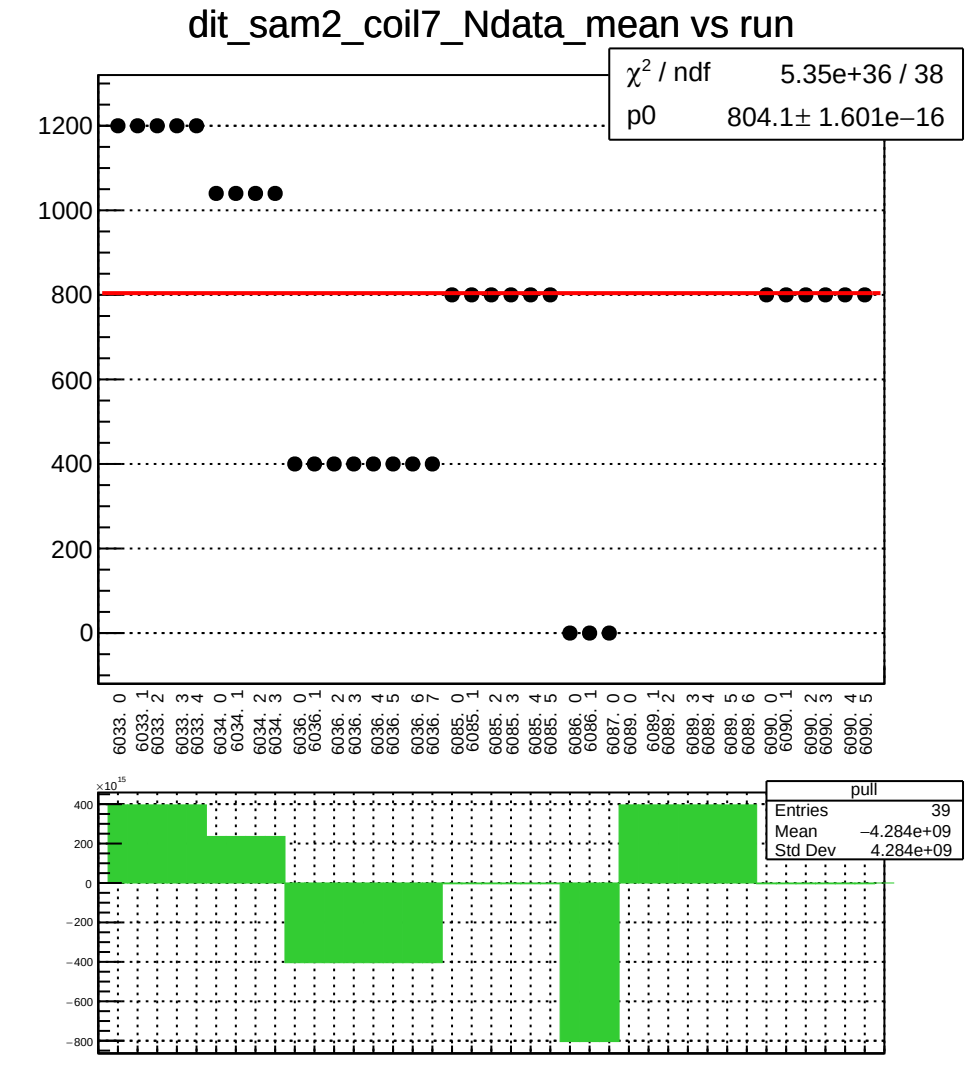

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

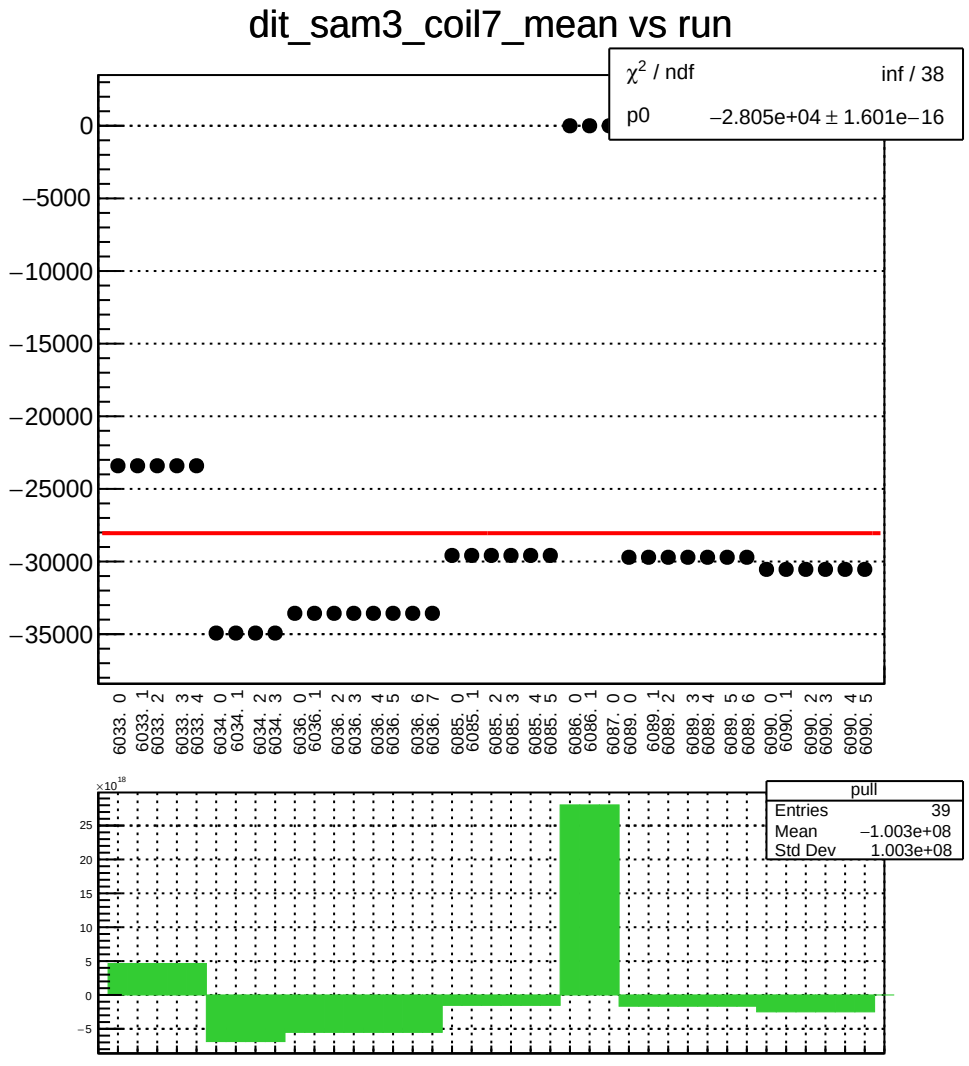

dit_sam1_coil7_err_mean vs run
χ² / ndf 8.766e+34 / 38
p0 128.3 ± 1.601e−16
pull
Entries 39
Mean 9.137e+08
Std Dev 9.137e+08
pull1D
Entries 39
Mean 0
Std Dev 0

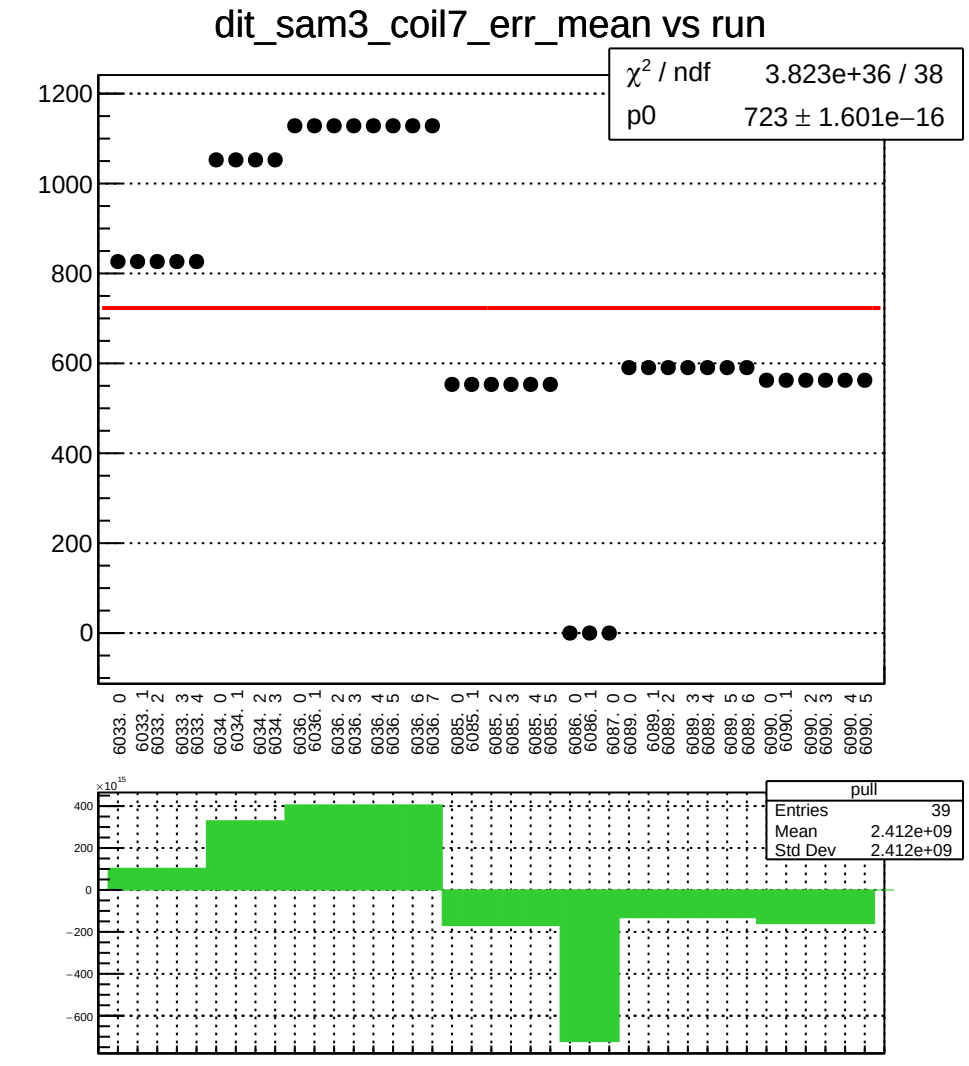

dit_sam1_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam2_coil7_mean vs run
χ² / ndf inf / 38
p0 −4.675e+04 ± 1.601e−16
0
−10000
−20000
−30000
−40000
−50000
−60000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
40
30
20
10
0
−10
pull
Entries 39
Mean 5.178e+08
Std Dev 5.178e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam2_coil7_err_mean vs run
χ² / ndf 1.085e+37 / 38
p0 1327 ± 1.601e−16
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 39
Mean 3.734e+09
Std Dev 3.734e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam2_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_coil7_mean vs run
χ² / ndf inf / 38
p0 −2.805e+04 ± 1.601e−16
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
25
20
15
10
5
0
−5
pull
Entries 39
Mean −1.003e+08
Std Dev 1.003e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_coil7_err_mean vs run
χ² / ndf 3.823e+36 / 38
p0 723 ± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
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6036. 4
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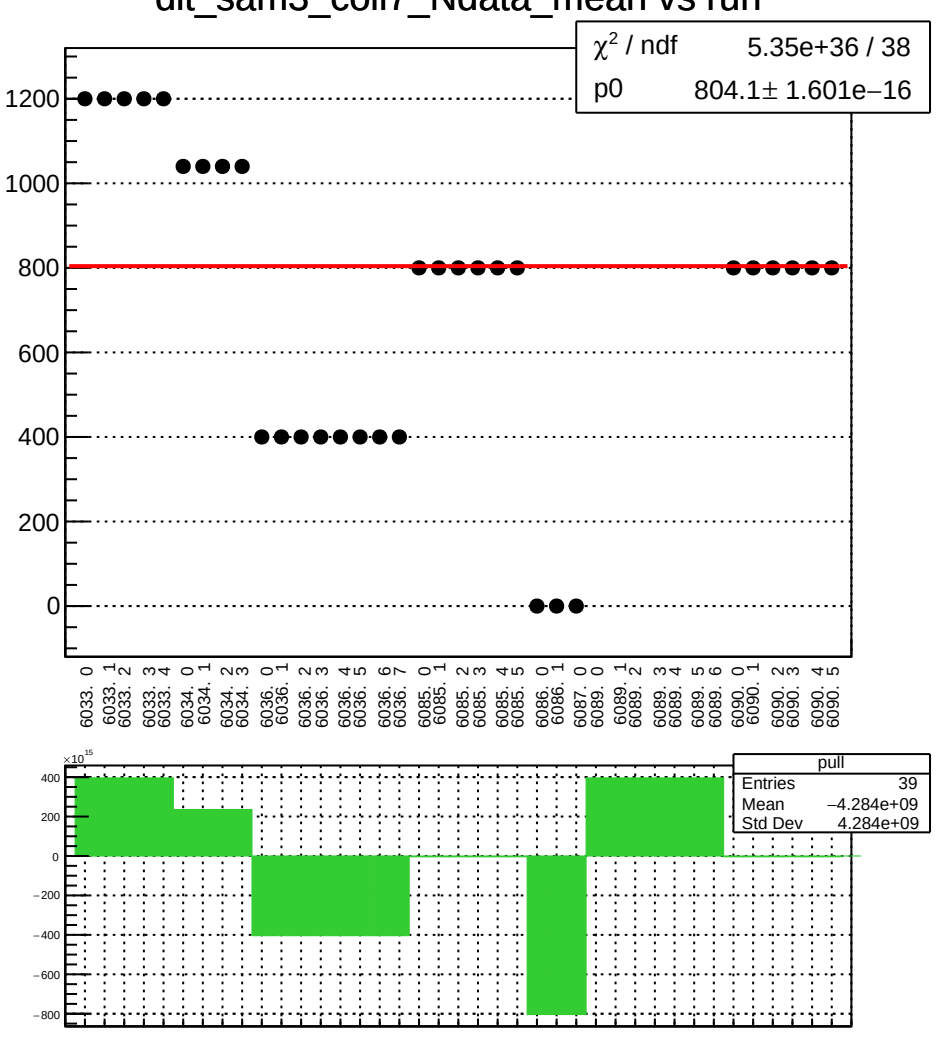
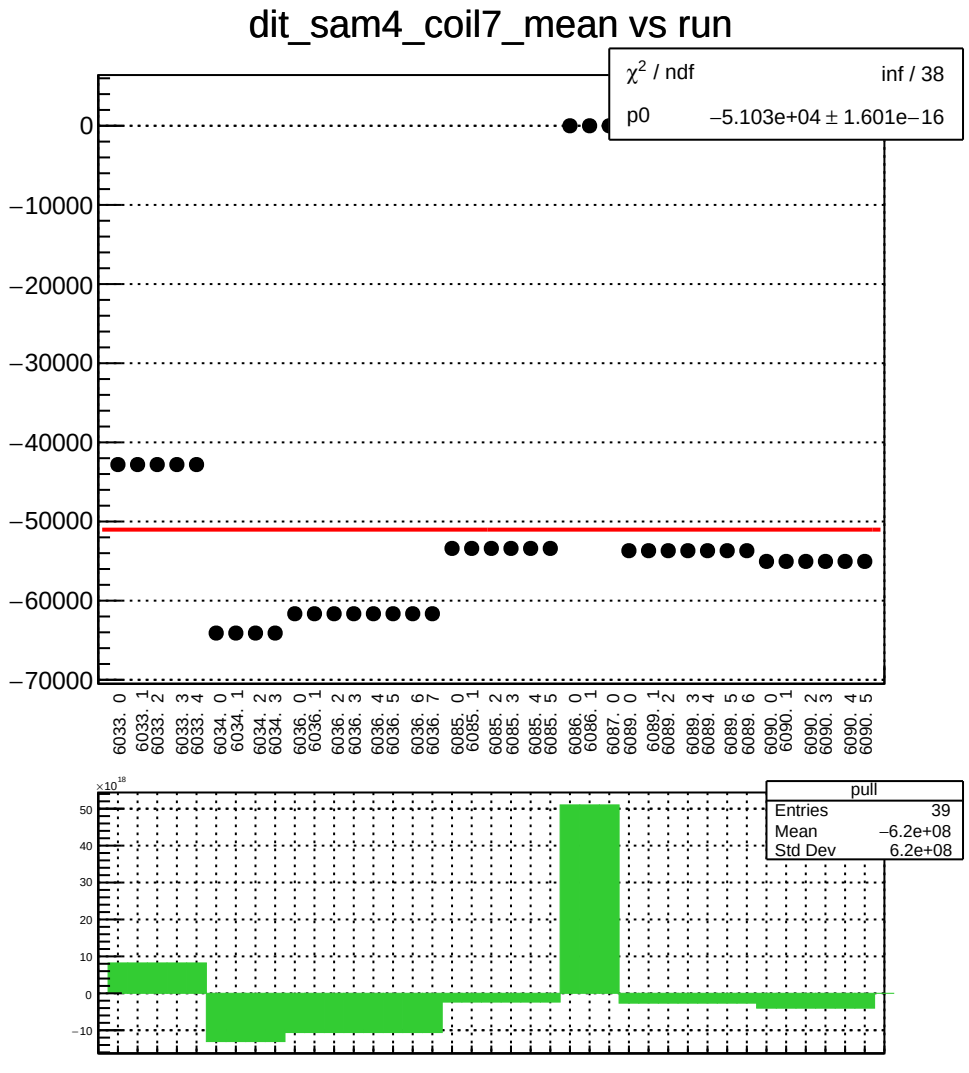
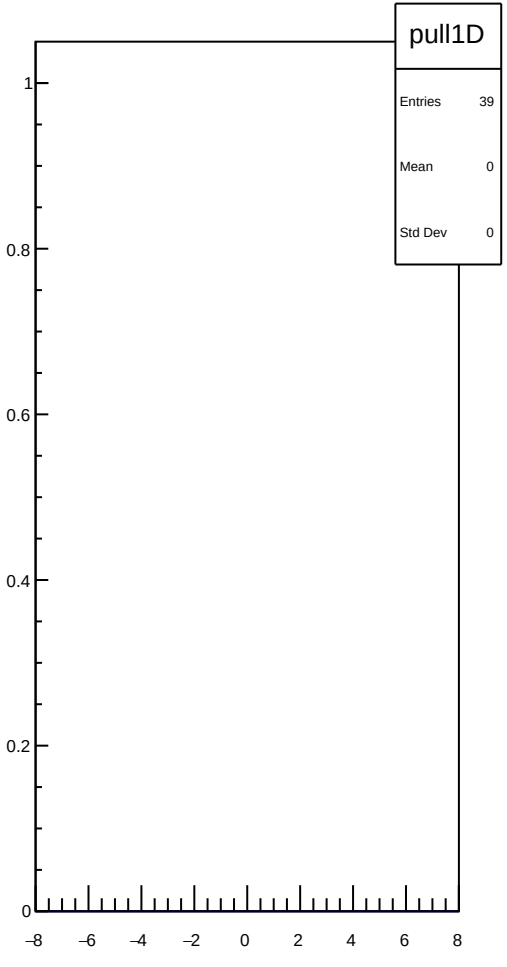
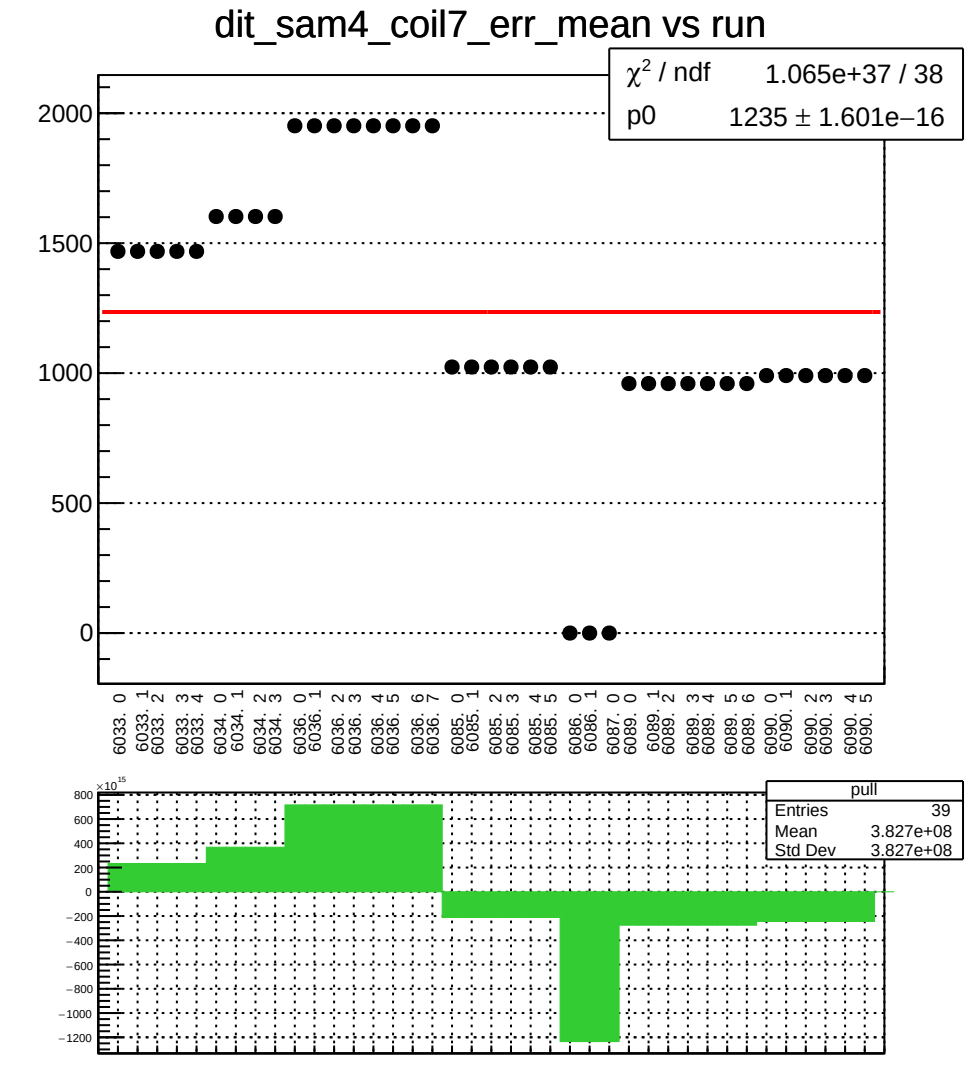
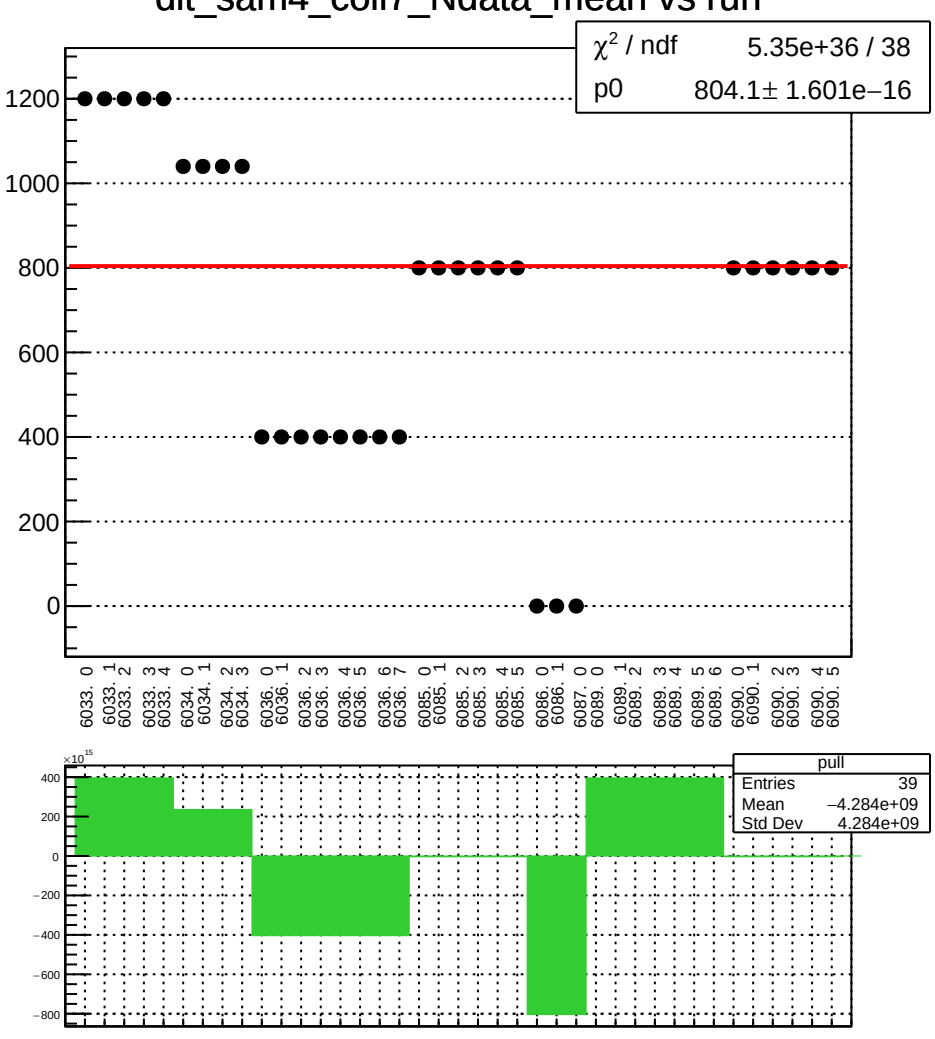
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 39
Mean 2.412e+09
Std Dev 2.412e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

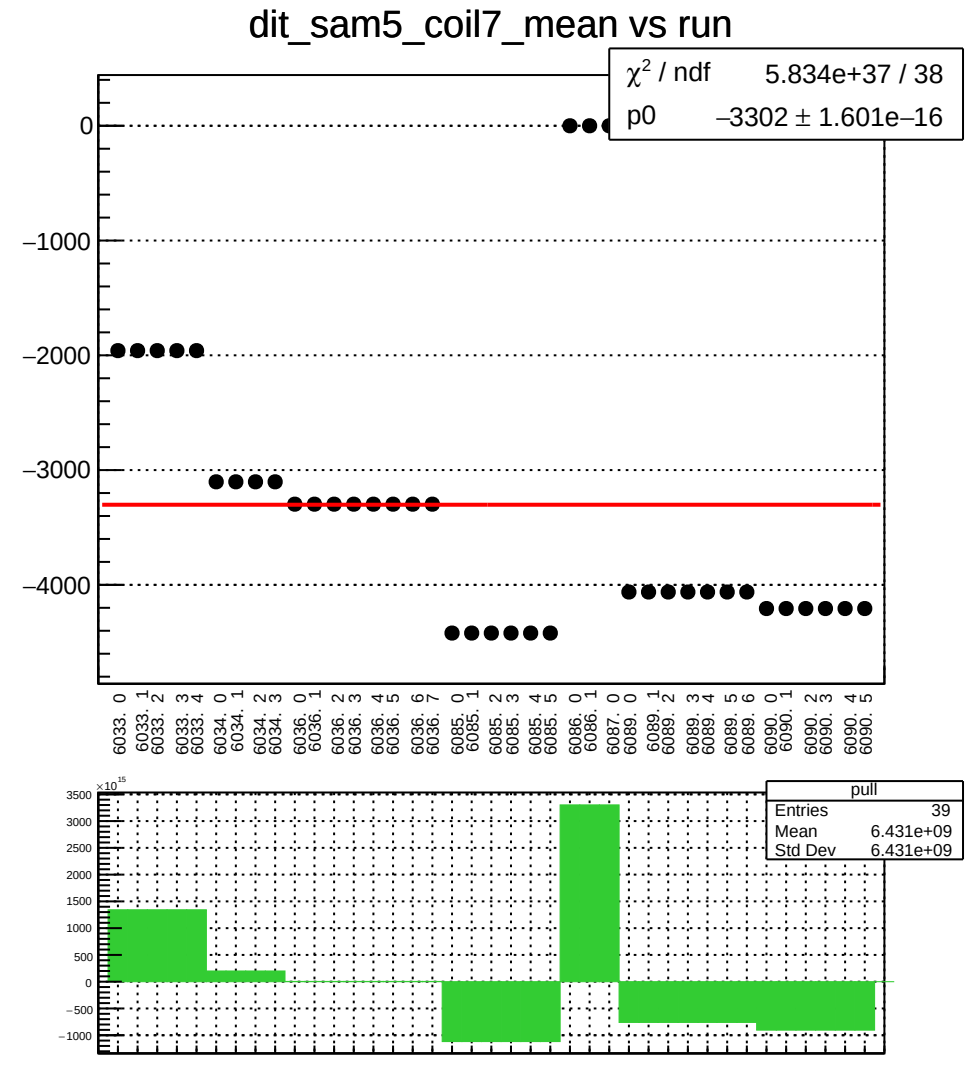

dit_sam3_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

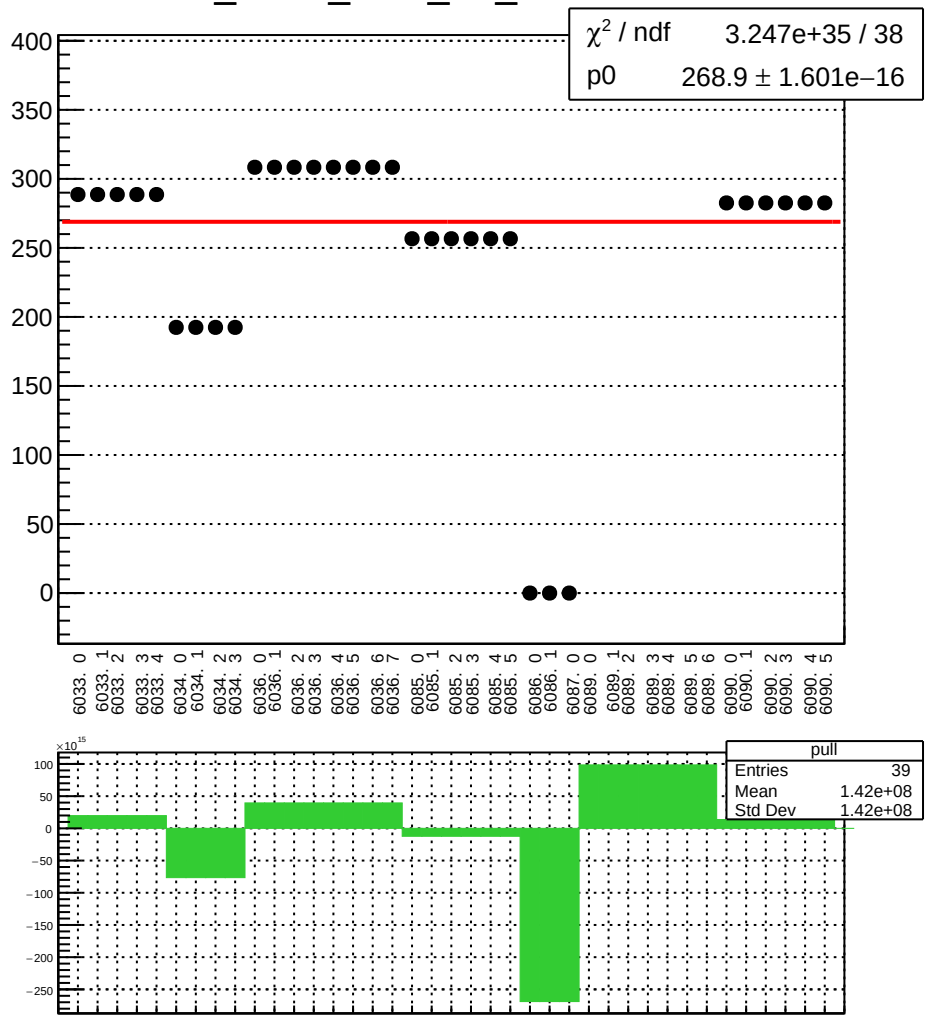

dit_sam4_coil7_mean vs run
χ² / ndf inf / 38
p0 −5.103e+04 ± 1.601e−16
0
−10000
−20000
−30000
−40000
−50000
−60000
−70000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
50
40
30
20
10
0
−10
pull
Entries 39
Mean −6.2e+08
Std Dev 6.2e+08

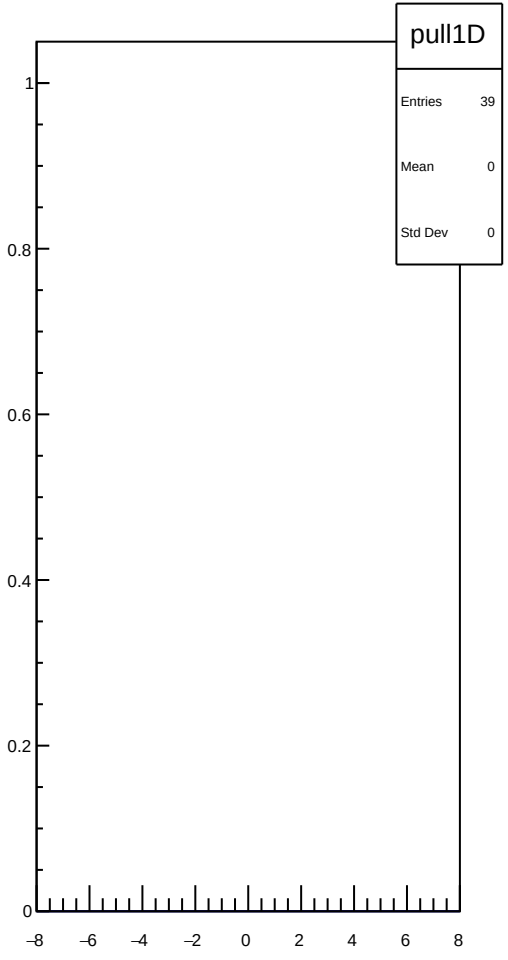

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

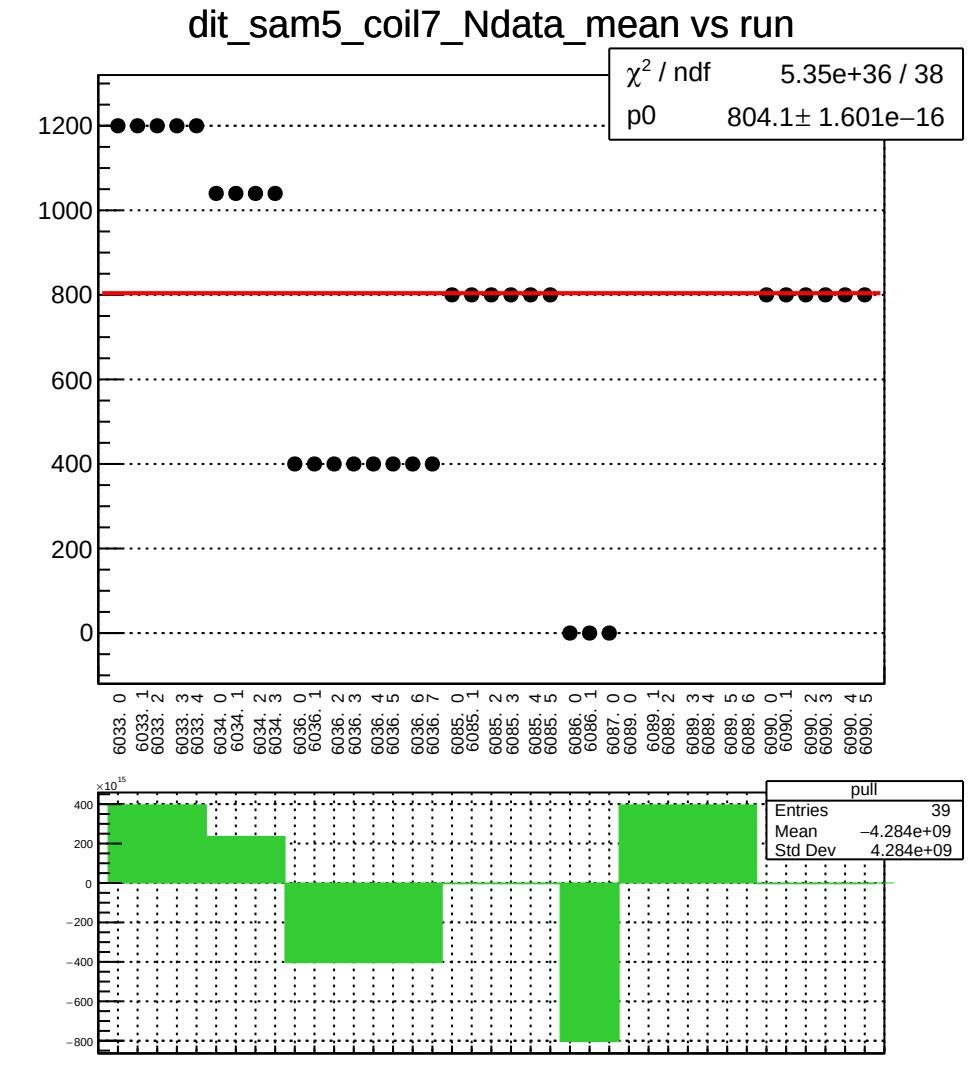

dit_sam4_coil7_err_mean vs run
χ² / ndf 1.065e+37 / 38
p0 1235 ± 1.601e−16
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 39
Mean 3.827e+08
Std Dev 3.827e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

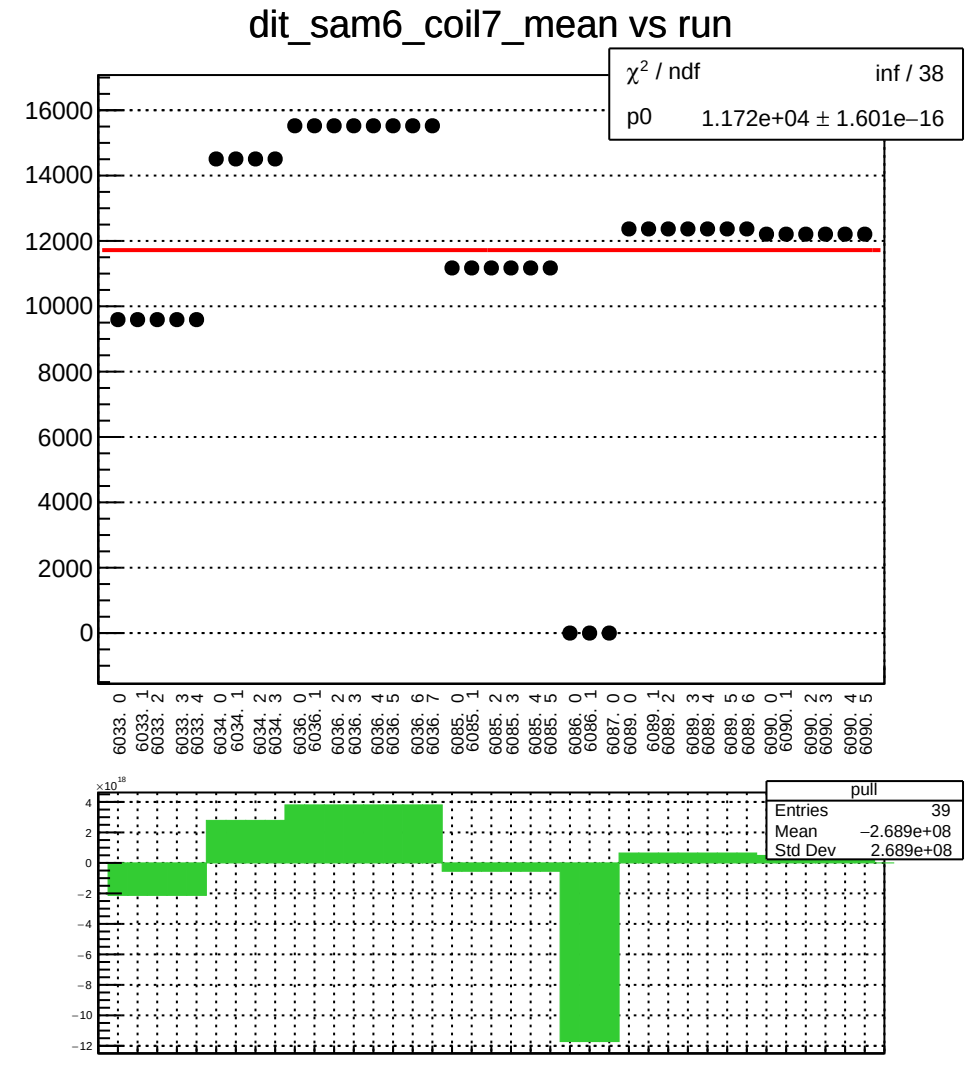

dit_sam4_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

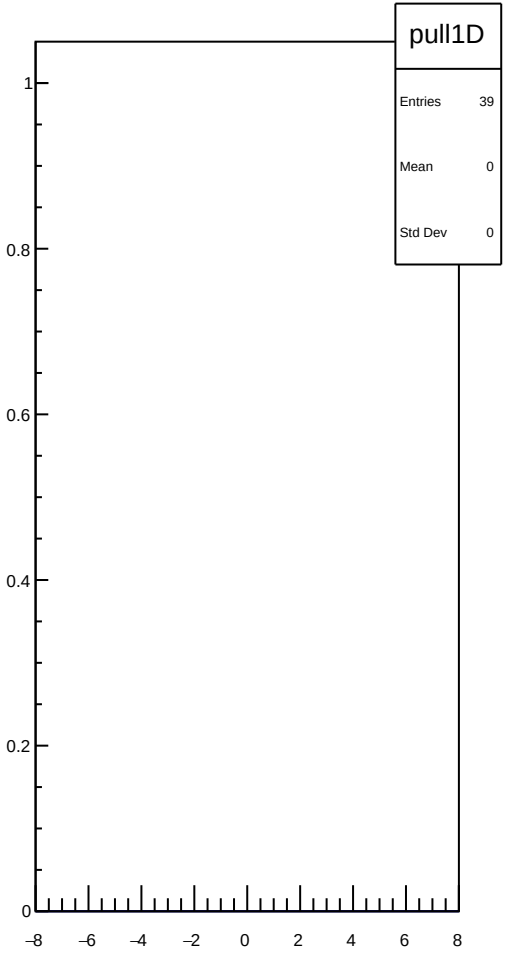

dit_sam5_coil7_mean vs run
χ² / ndf 5.834e+37 / 38
p0 −3302 ± 1.601e−16
0
−1000
−2000
−3000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
3500
3000
2500
2000
1500
1000
500
0
−500
−1000
pull
Entries 39
Mean 6.431e+09
Std Dev 6.431e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

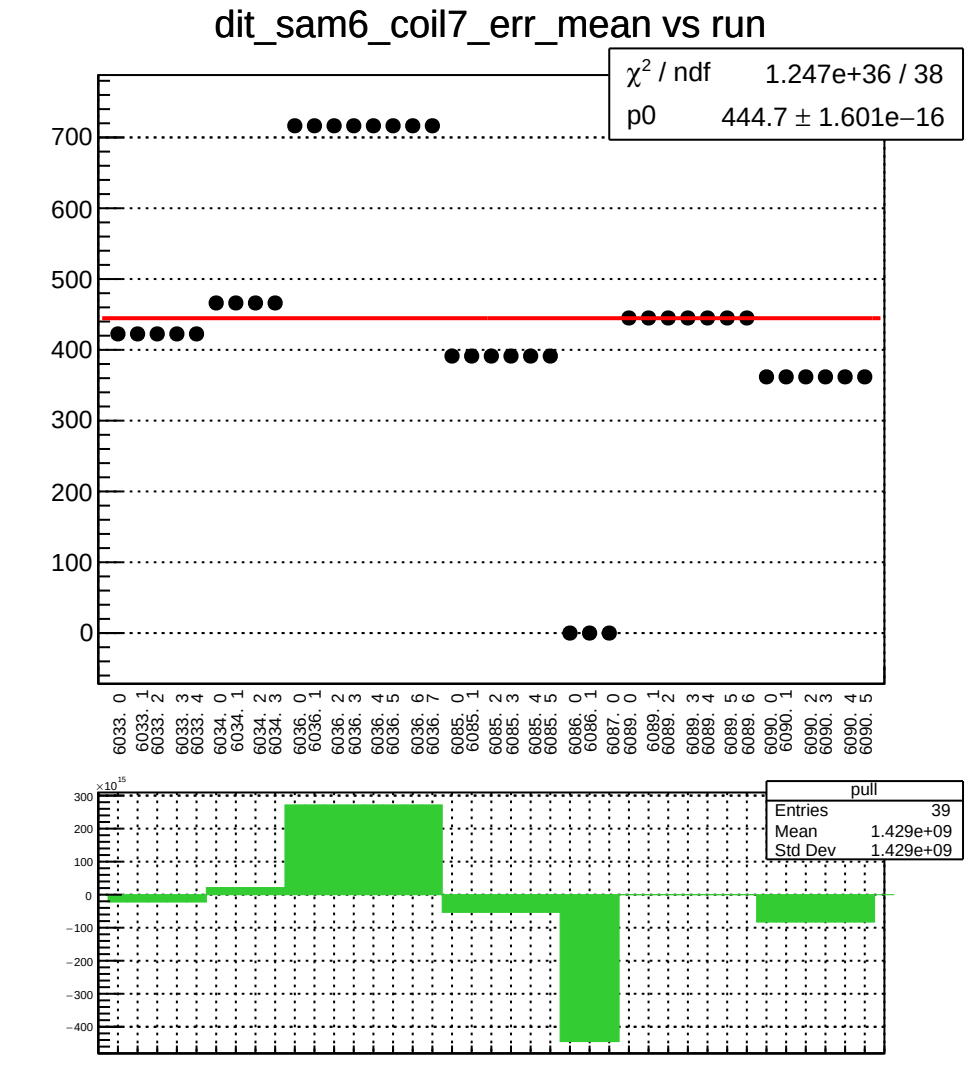

dit_sam5_coil7_err_mean vs run
χ² / ndf 3.247e+35 / 38
p0 268.9 ± 1.601e−16
pull
Entries 39
Mean 1.42e+08
Std Dev 1.42e+08

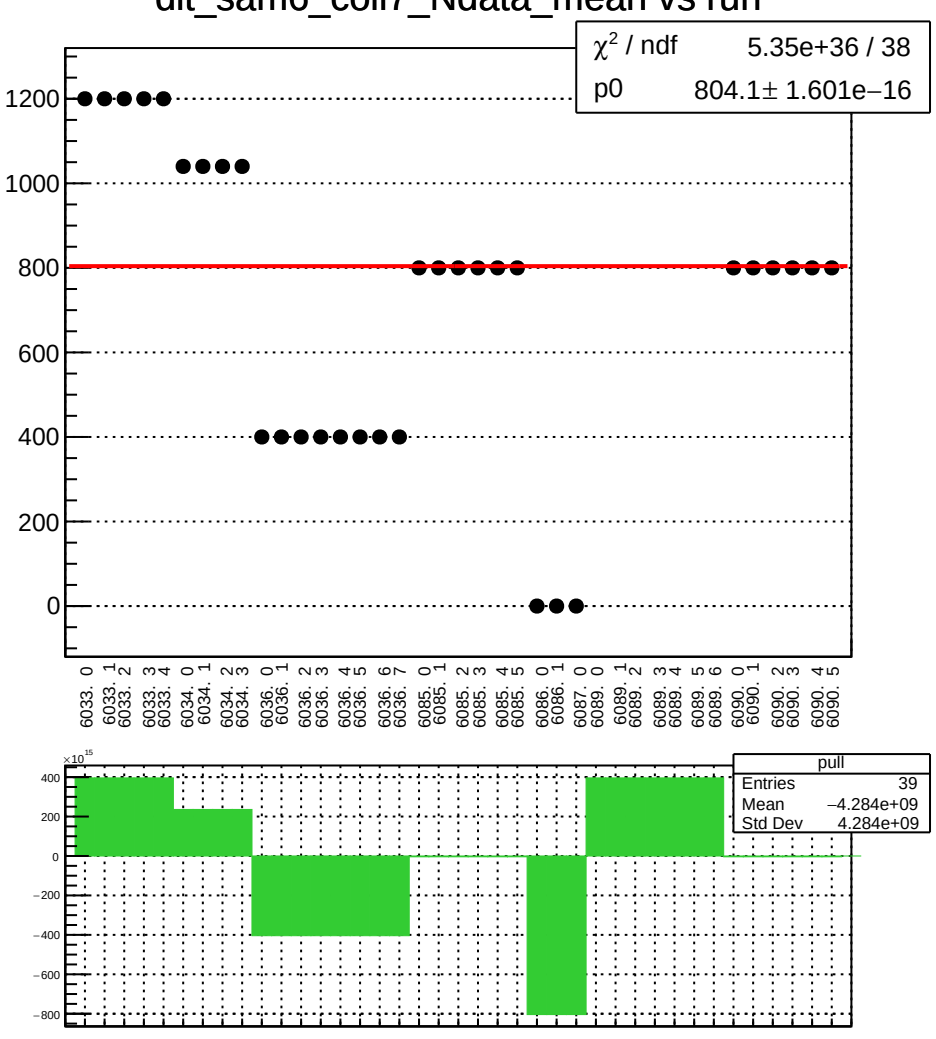

pull1D
Entries 39
Mean 0
Std Dev 0

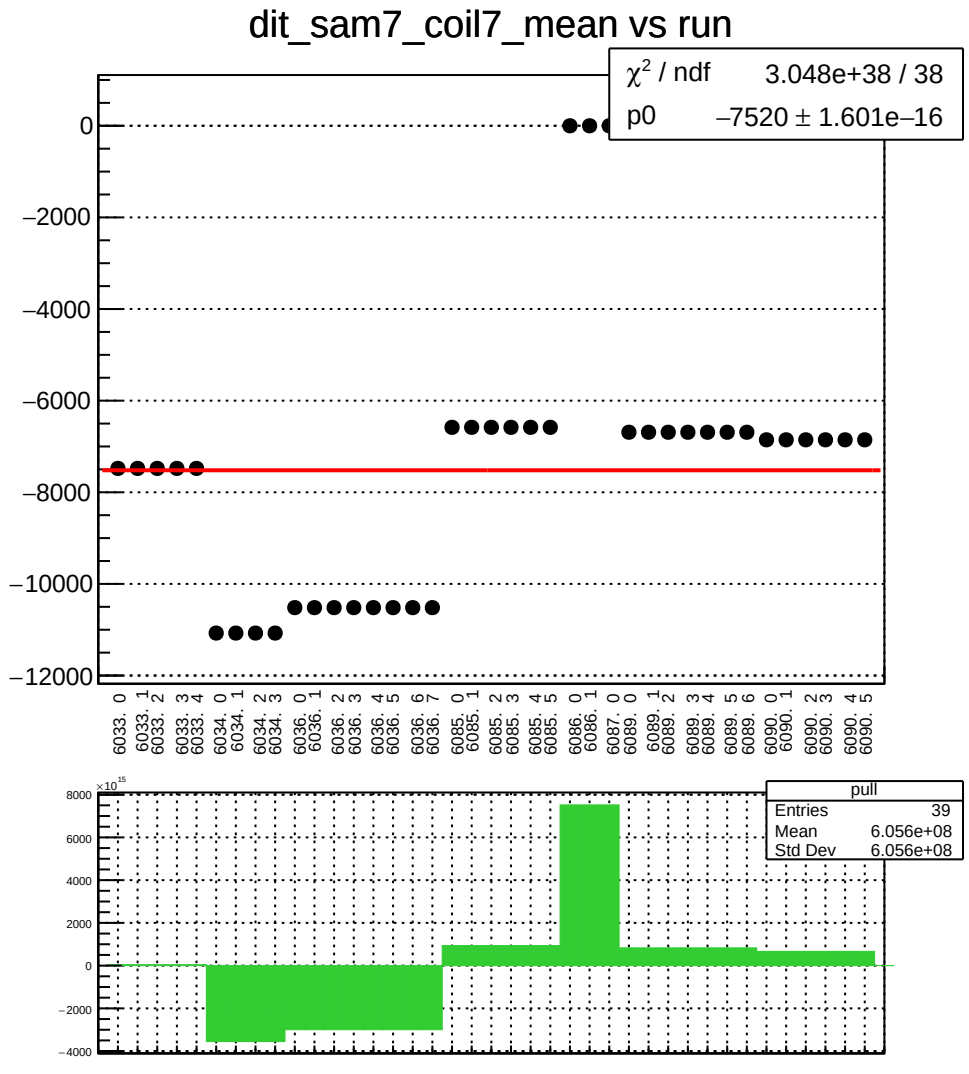

dit_sam5_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

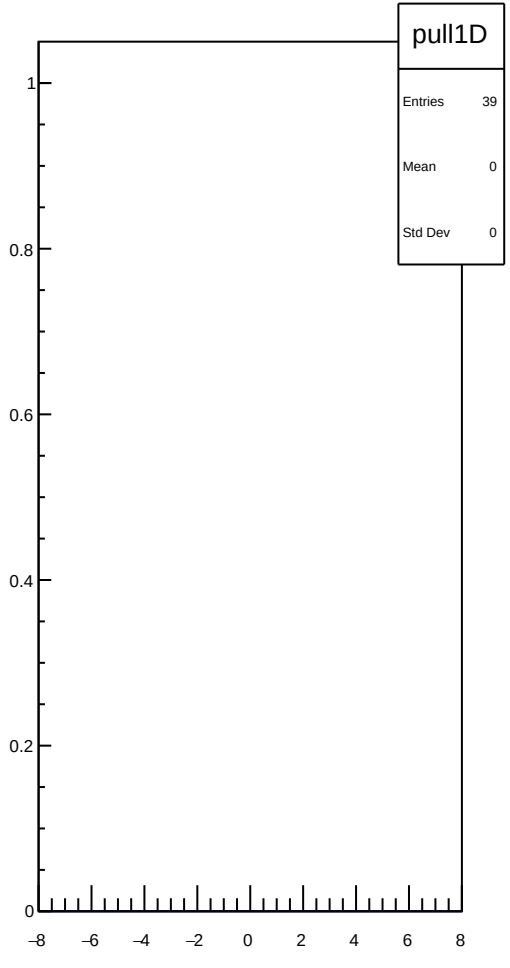

dit_sam6_coil7_mean vs run
χ² / ndf inf / 38
p0 1.172e+04 ± 1.601e−16
16000
14000
12000
10000
8000
6000
4000
2000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
4
2
0
−2
−4
−6
−8
−10
−12
pull
Entries 39
Mean −2.689e+08
Std Dev 2.689e+08

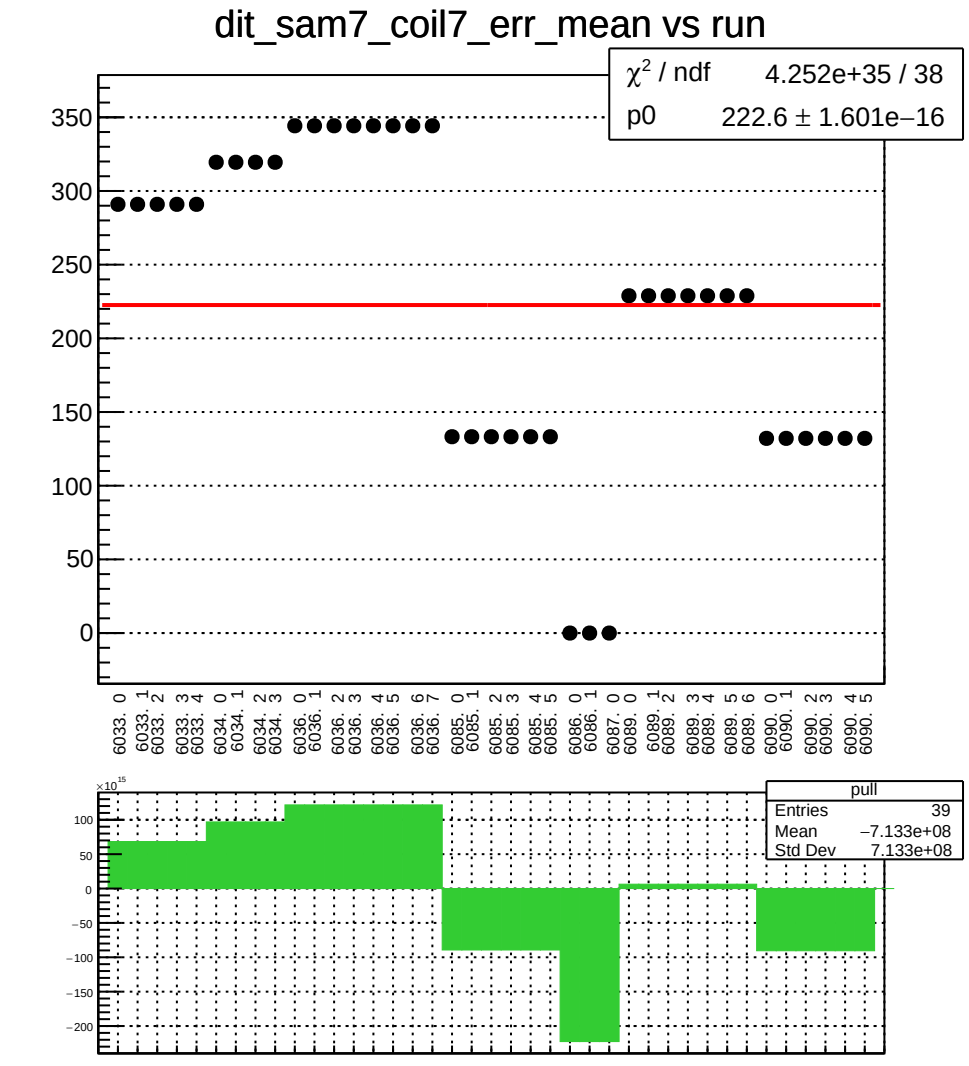

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

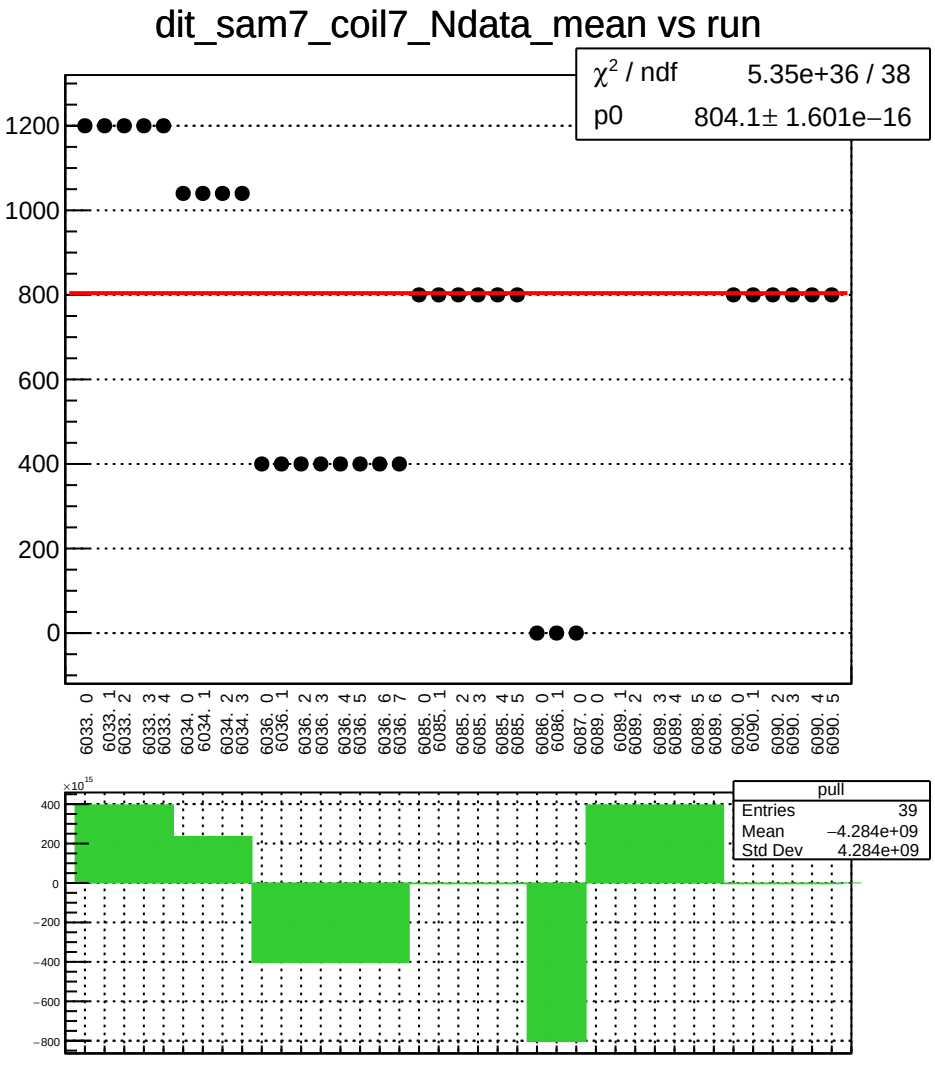

dit_sam6_coil7_err_mean vs run
χ² / ndf 1.247e+36 / 38
p0 444.7 ± 1.601e−16
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
300
200
100
0
−100
−200
−300
−400
pull
Entries 39
Mean 1.429e+09
Std Dev 1.429e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

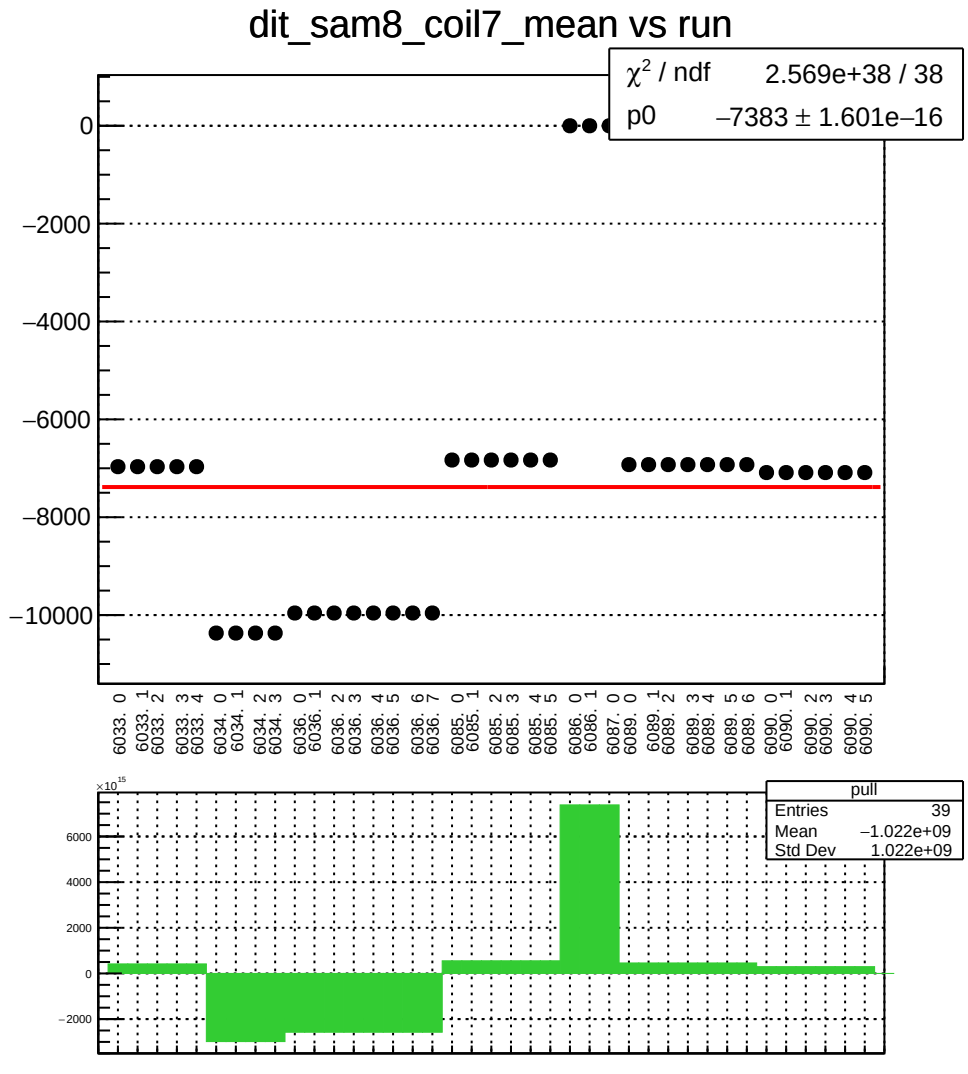

dit_sam6_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

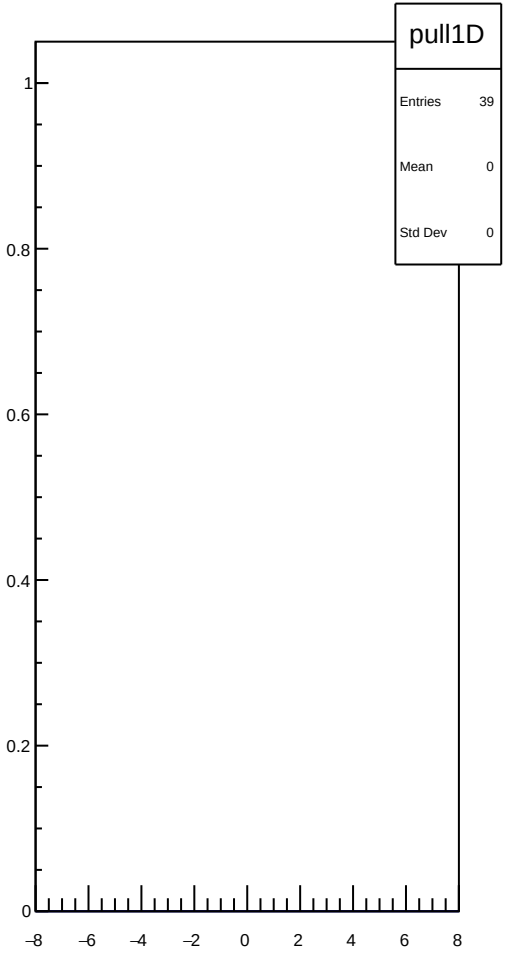

dit_sam7_coil7_mean vs run
χ² / ndf 3.048e+38 / 38
p0 −7520 ± 1.601e−16
0
−2000
−4000
−6000
−8000
−10000
−12000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 39
Mean 6.056e+08
Std Dev 6.056e+08

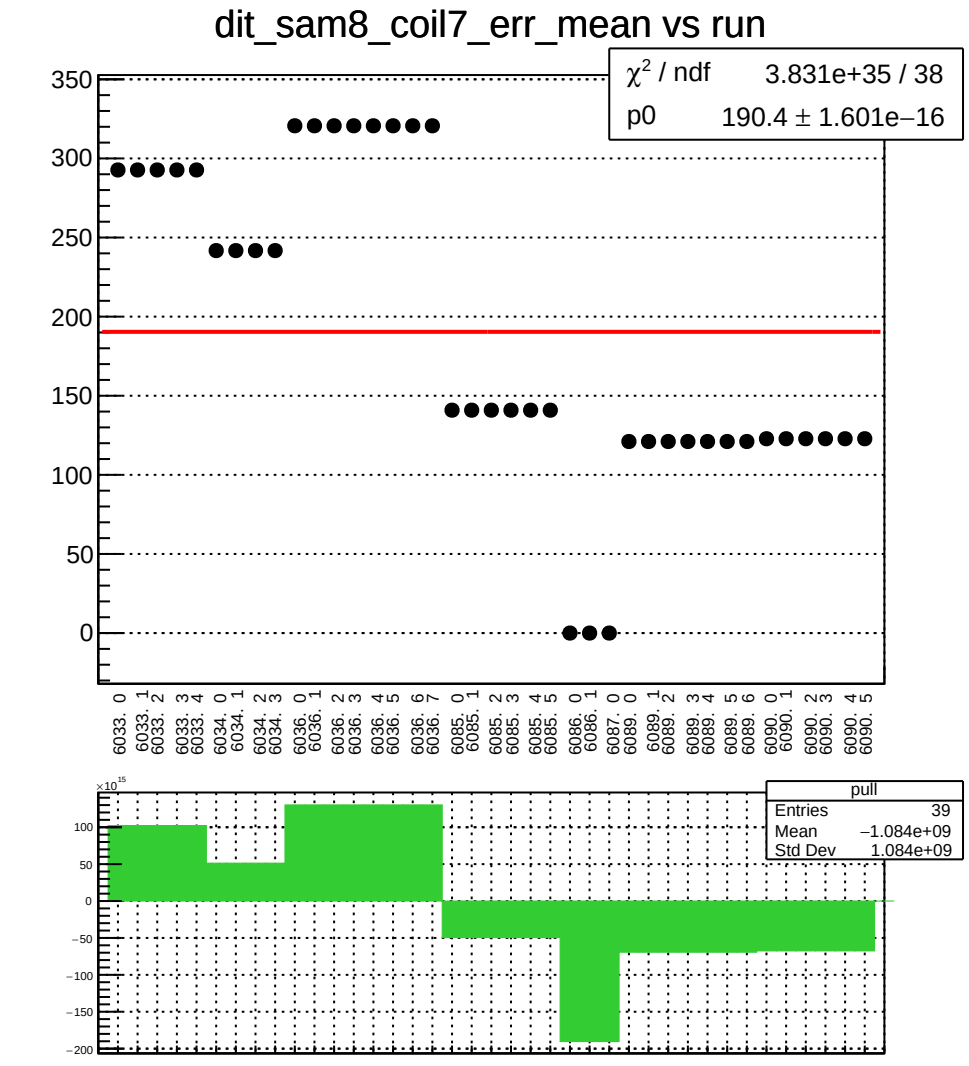

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

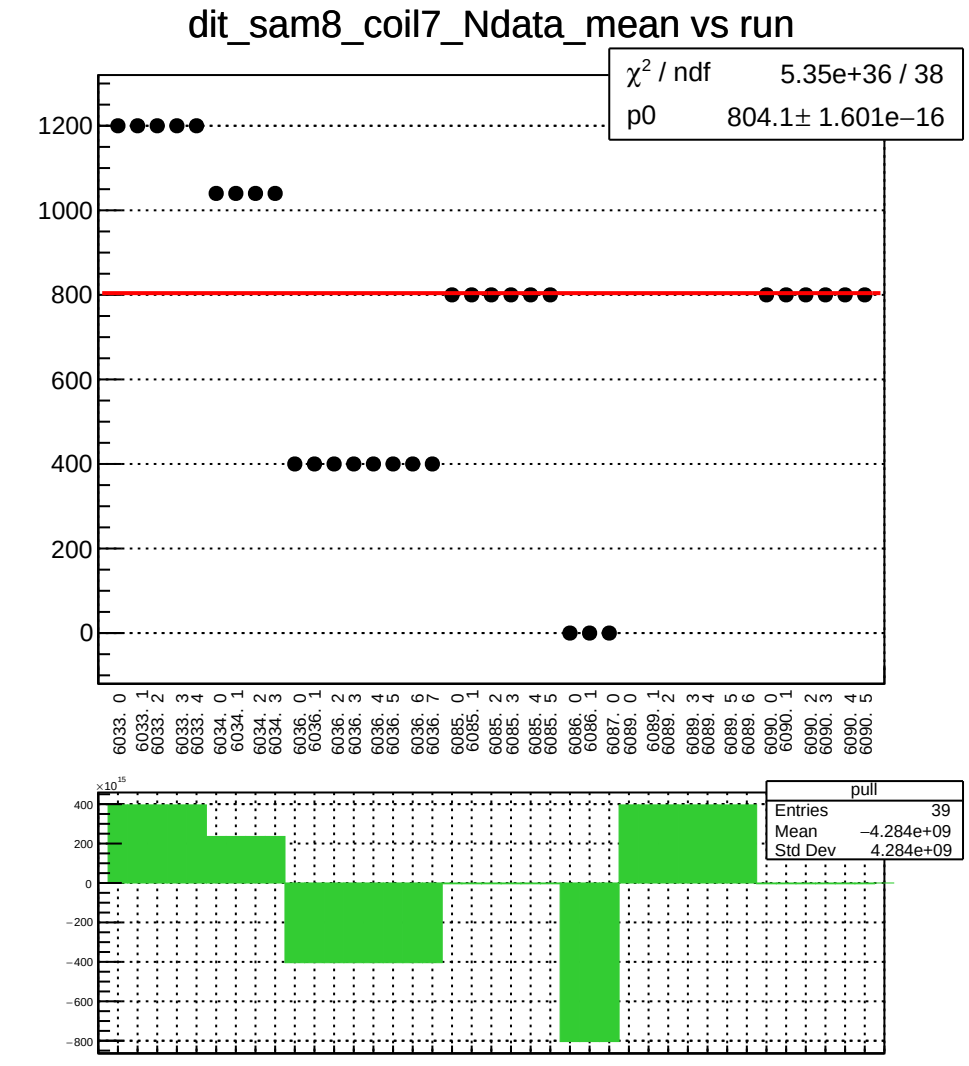

dit_sam7_coil7_err_mean vs run
χ² / ndf 4.252e+35 / 38
p0 222.6 ± 1.601e−16
350
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
50
0
−50
−100
−150
−200
pull
Entries 39
Mean −7.133e+08
Std Dev 7.133e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

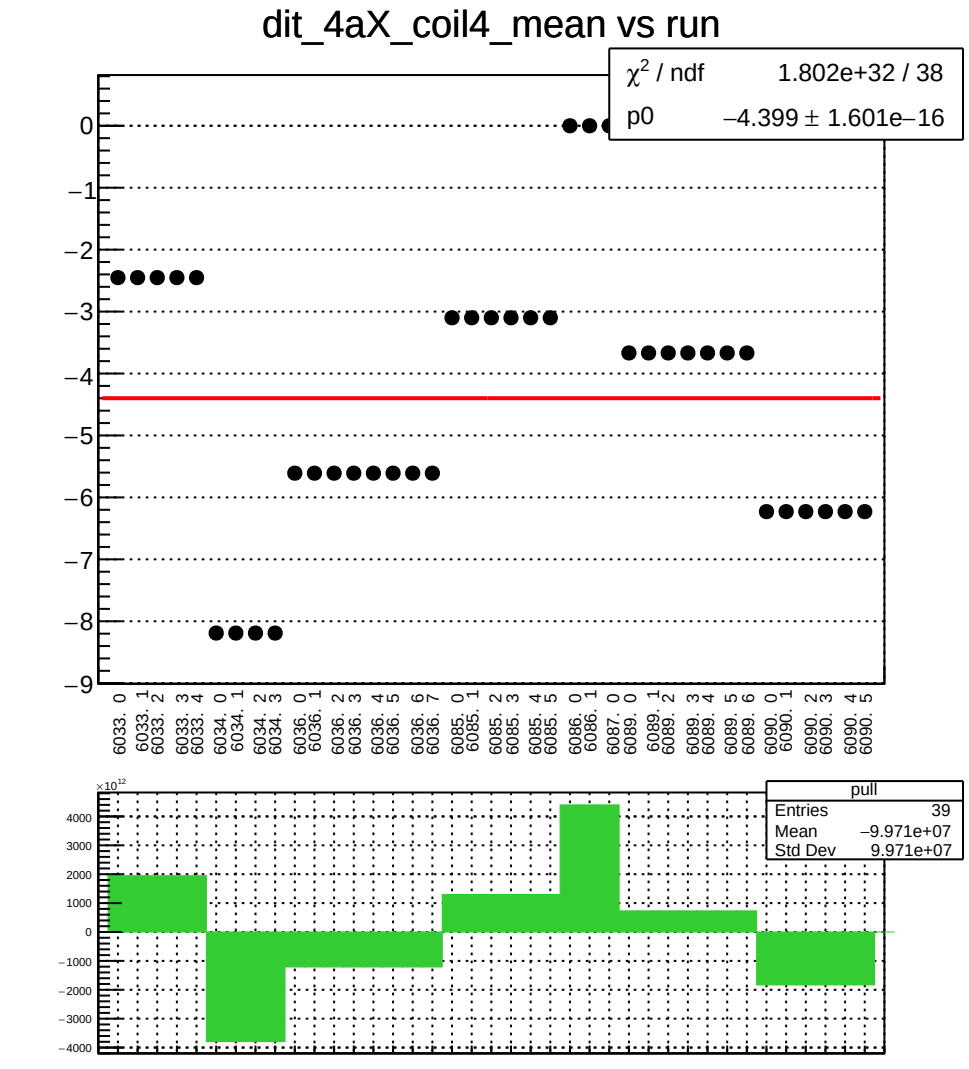

dit_sam7_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

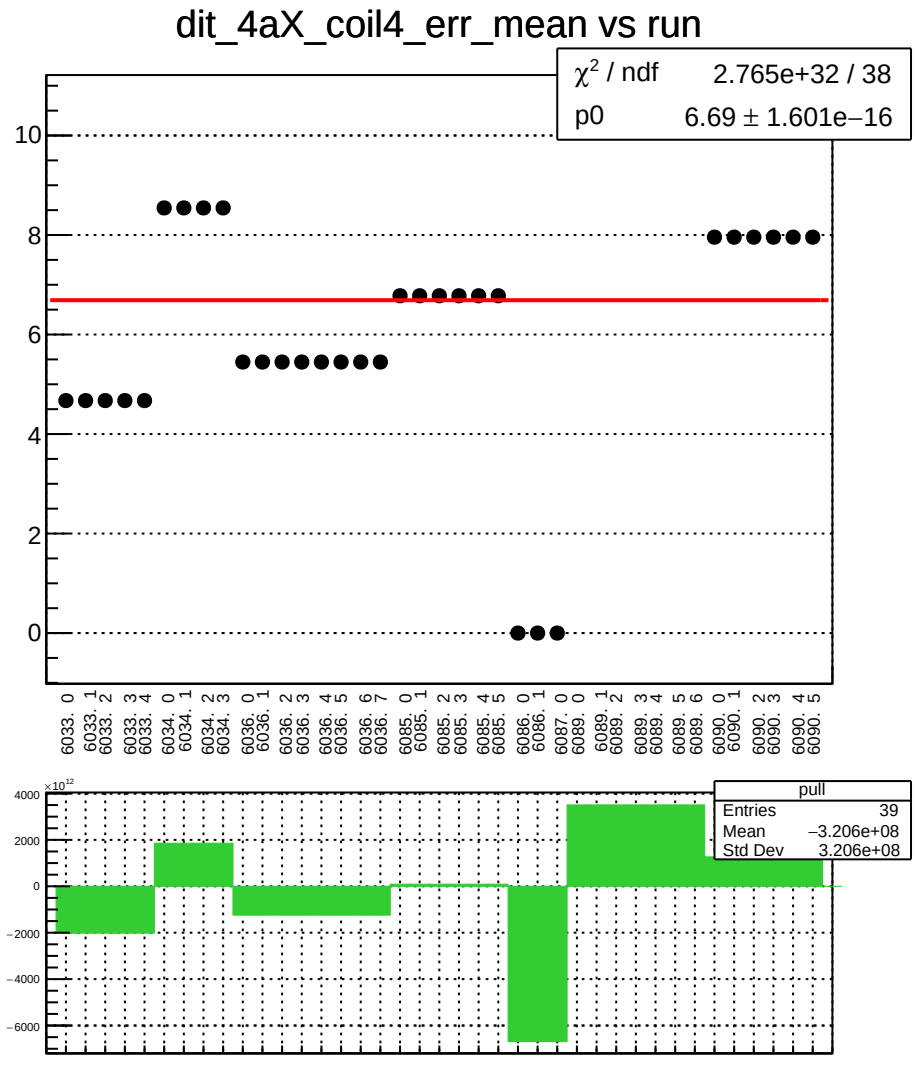

dit_sam8_coil7_mean vs run
χ² / ndf 2.569e+38 / 38
p0 −7383 ± 1.601e−16
0
−2000
−4000
−6000
−8000
−10000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
6000
4000
2000
0
−2000
pull
Entries 39
Mean −1.022e+09
Std Dev 1.022e+09

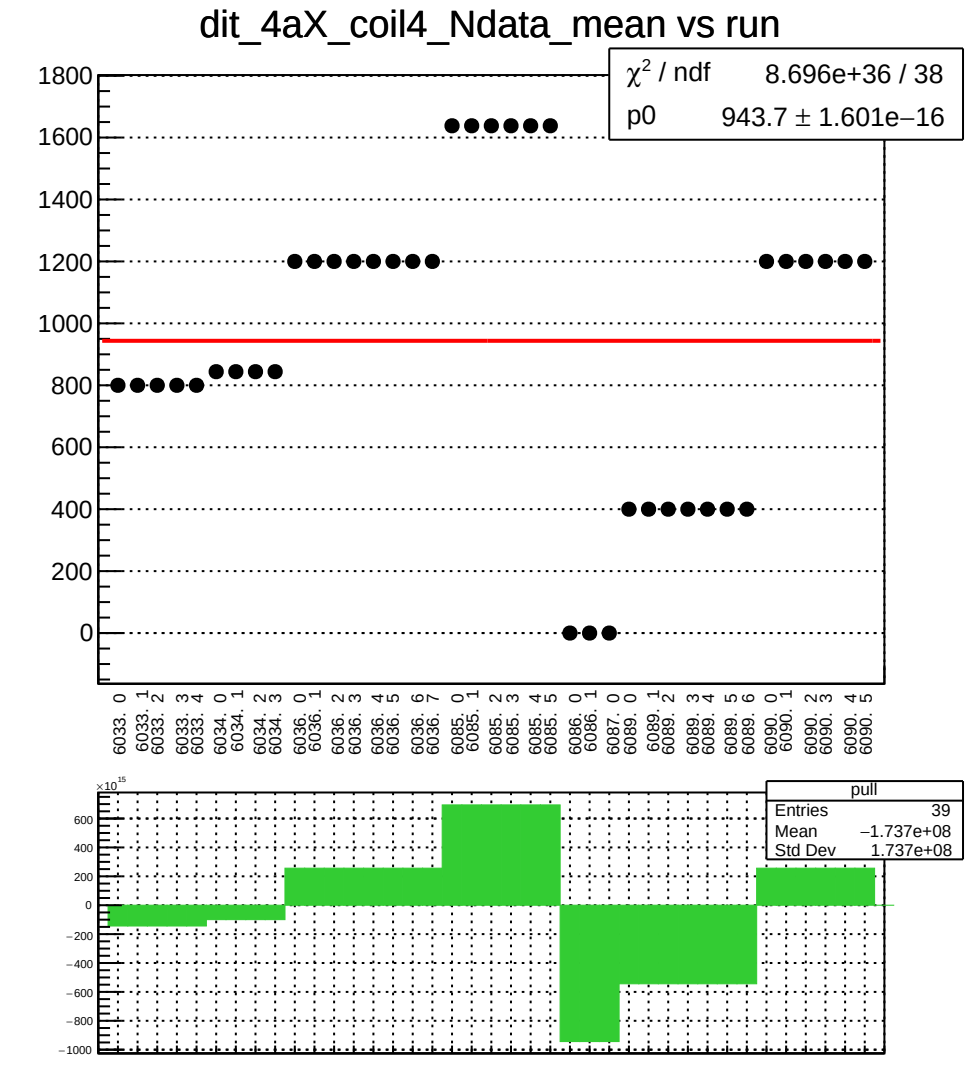

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

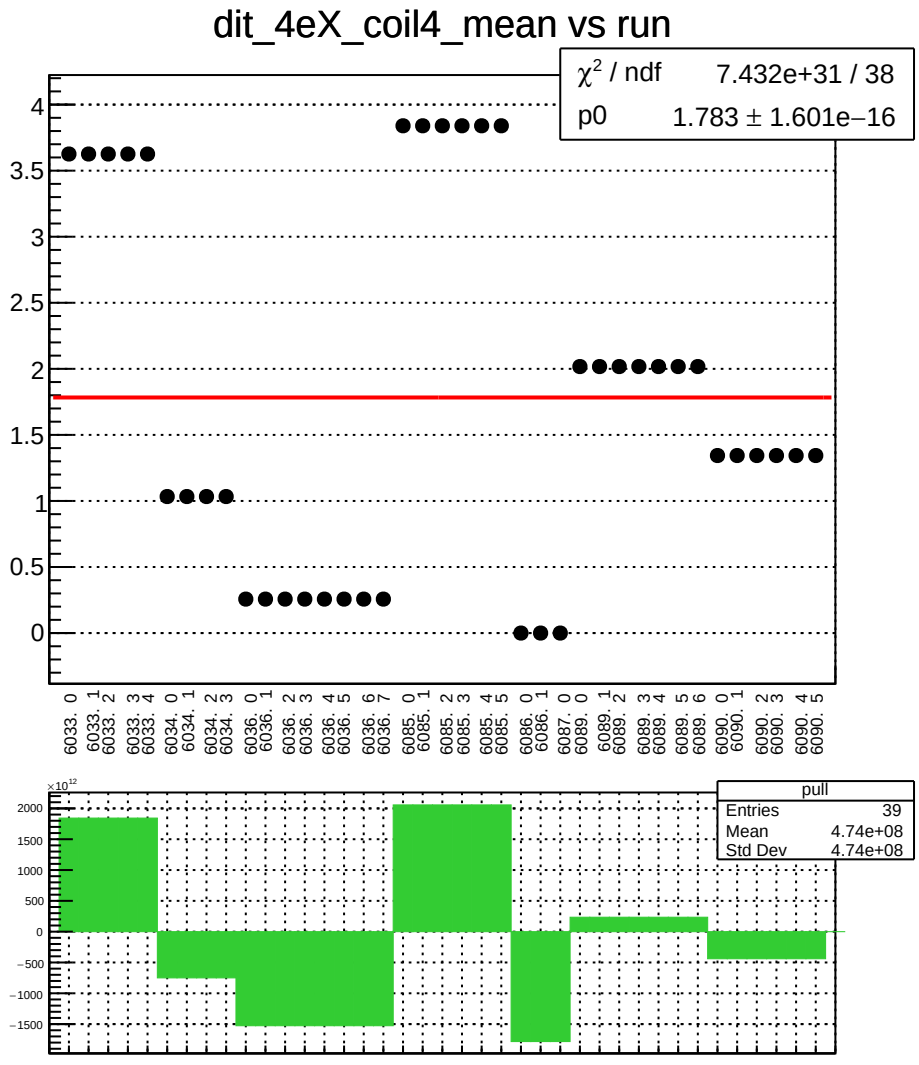

dit_sam8_coil7_err_mean vs run
χ² / ndf 3.831e+35 / 38
p0 190.4 ± 1.601e−16
pull
Entries 39
Mean −1.084e+09
Std Dev 1.084e+09
pull1D
Entries 39
Mean 0
Std Dev 0

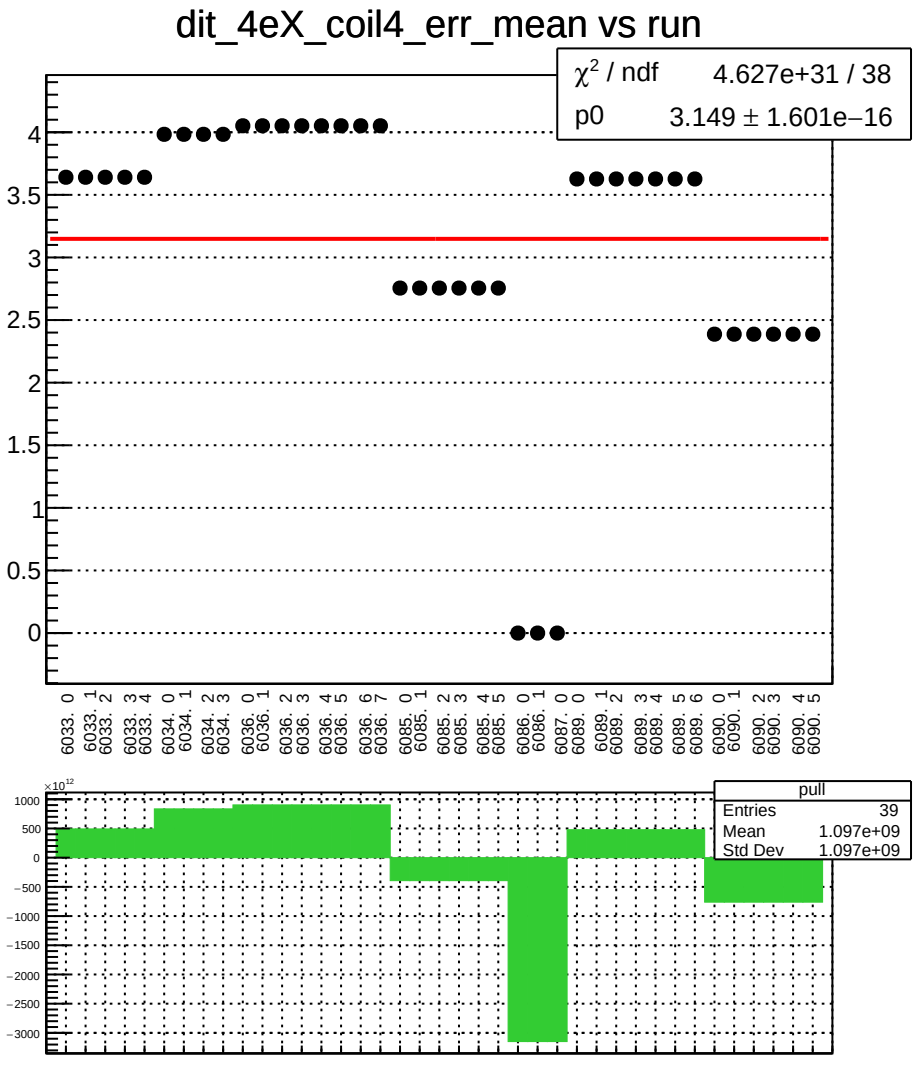

dit_sam8_coil7_Ndata_mean vs run
χ² / ndf 5.35e+36 / 38
p0 804.1± 1.601e−16
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −4.284e+09
Std Dev 4.284e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

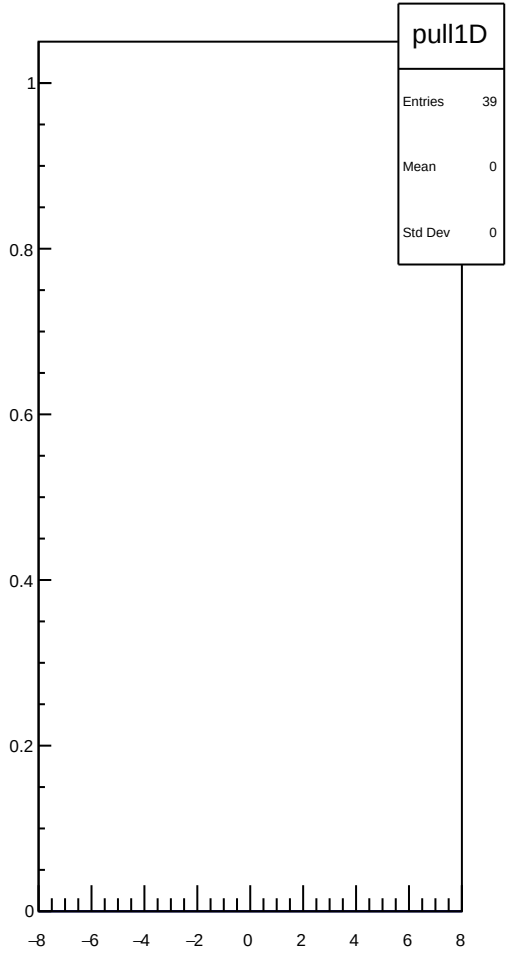

dit_4aX_coil4_mean vs run
χ² / ndf 1.802e+32 / 38
p0 −4.399 ± 1.601e−16
pull
Entries 39
Mean −9.971e+07
Std Dev 9.971e+07
pull1D
Entries 39
Mean 0
Std Dev 0

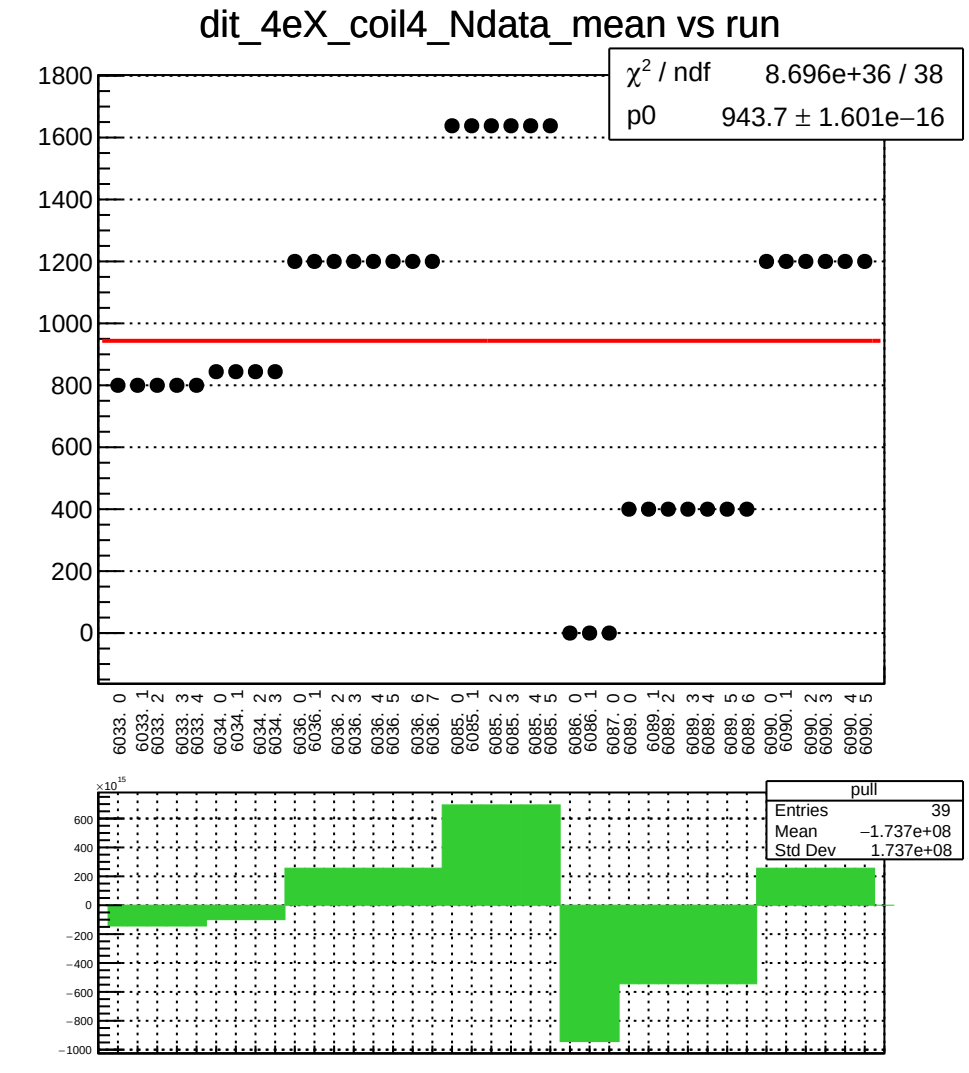

dit_4aX_coil4_err_mean vs run
χ² / ndf 2.765e+32 / 38
p0 6.69 ± 1.601e−16
10
8
6
4
2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
4000
2000
0
−2000
−4000
−6000
pull
Entries 39
Mean −3.206e+08
Std Dev 3.206e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

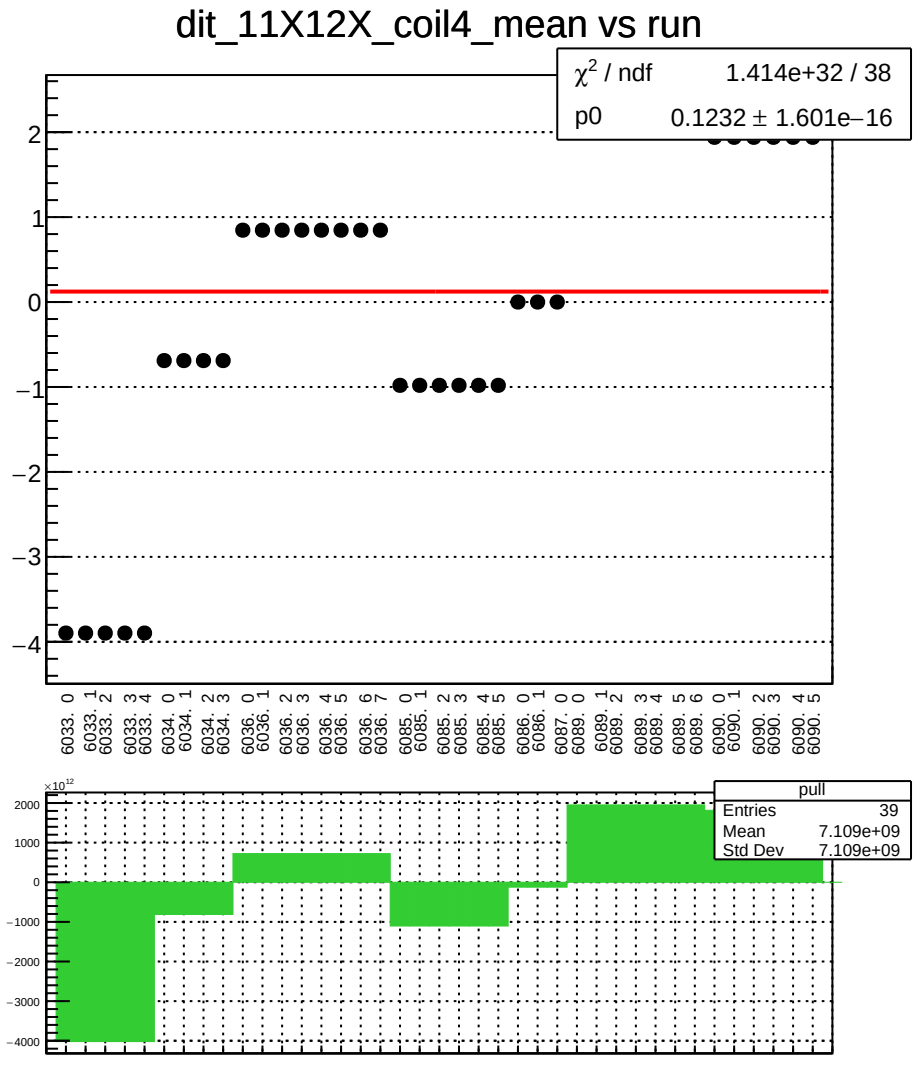

dit_4aX_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

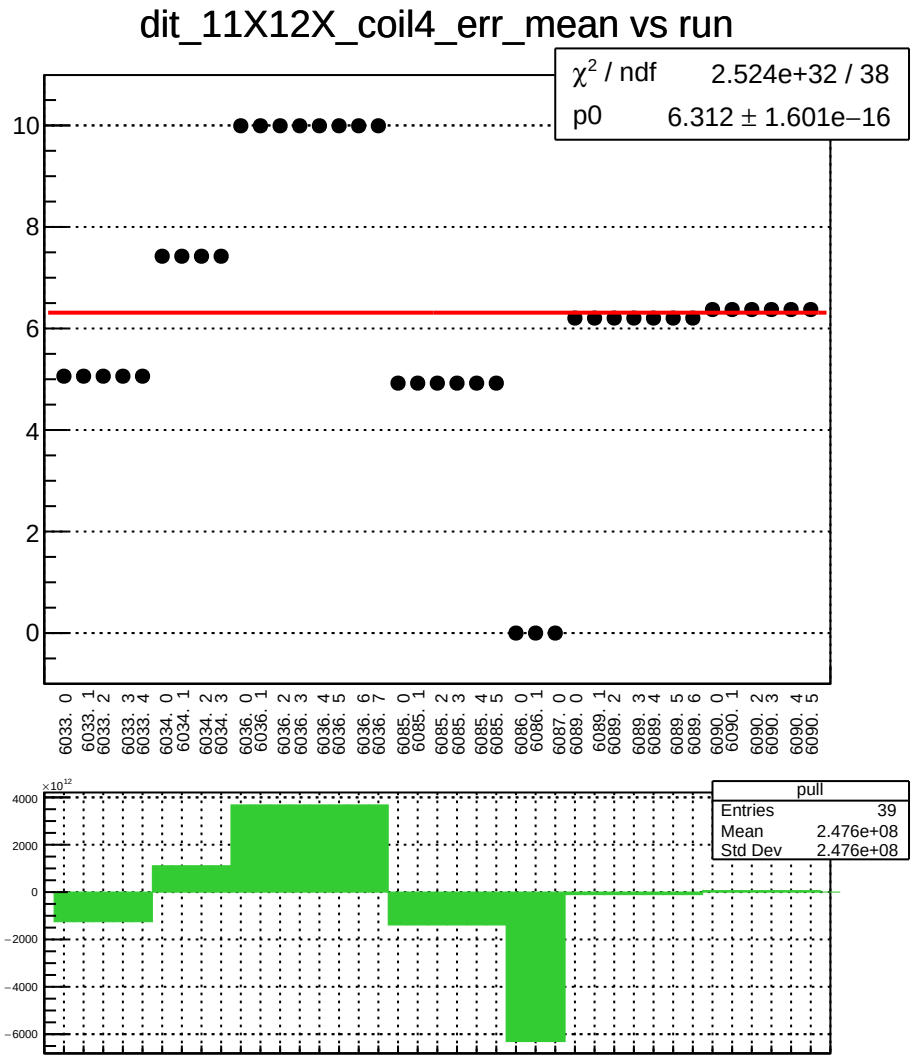

dit_4eX_coil4_mean vs run
χ² / ndf 7.432e+31 / 38
p0 1.783 ± 1.601e−16
4
3.5
3
2.5
2
1.5
1
0.5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 39
Mean 4.74e+08
Std Dev 4.74e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

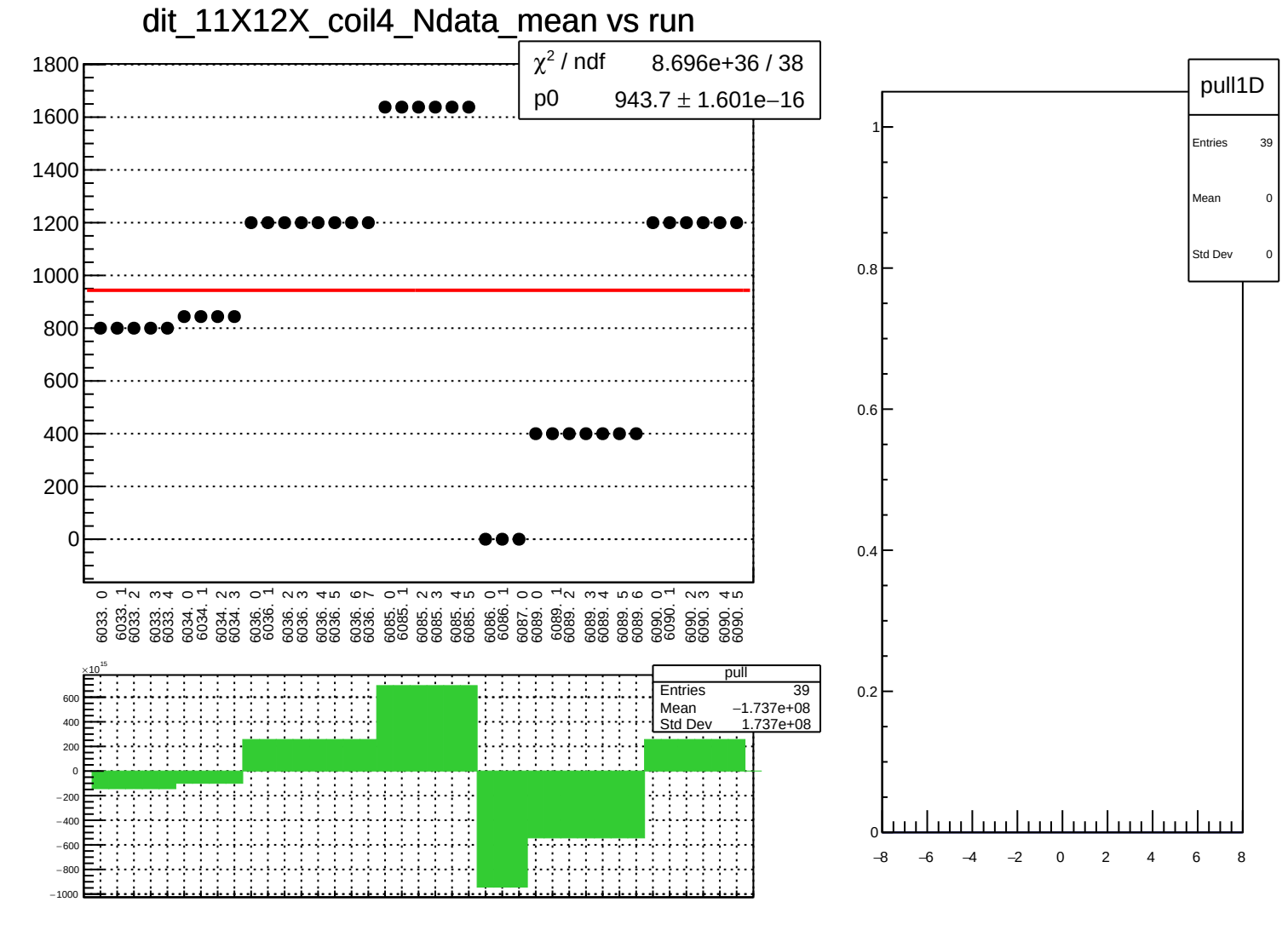

dit_4eX_coil4_err_mean vs run
χ² / ndf 4.627e+31 / 38
p0 3.149 ± 1.601e−16
pull
Entries 39
Mean 1.097e+09
Std Dev 1.097e+09
×10¹²

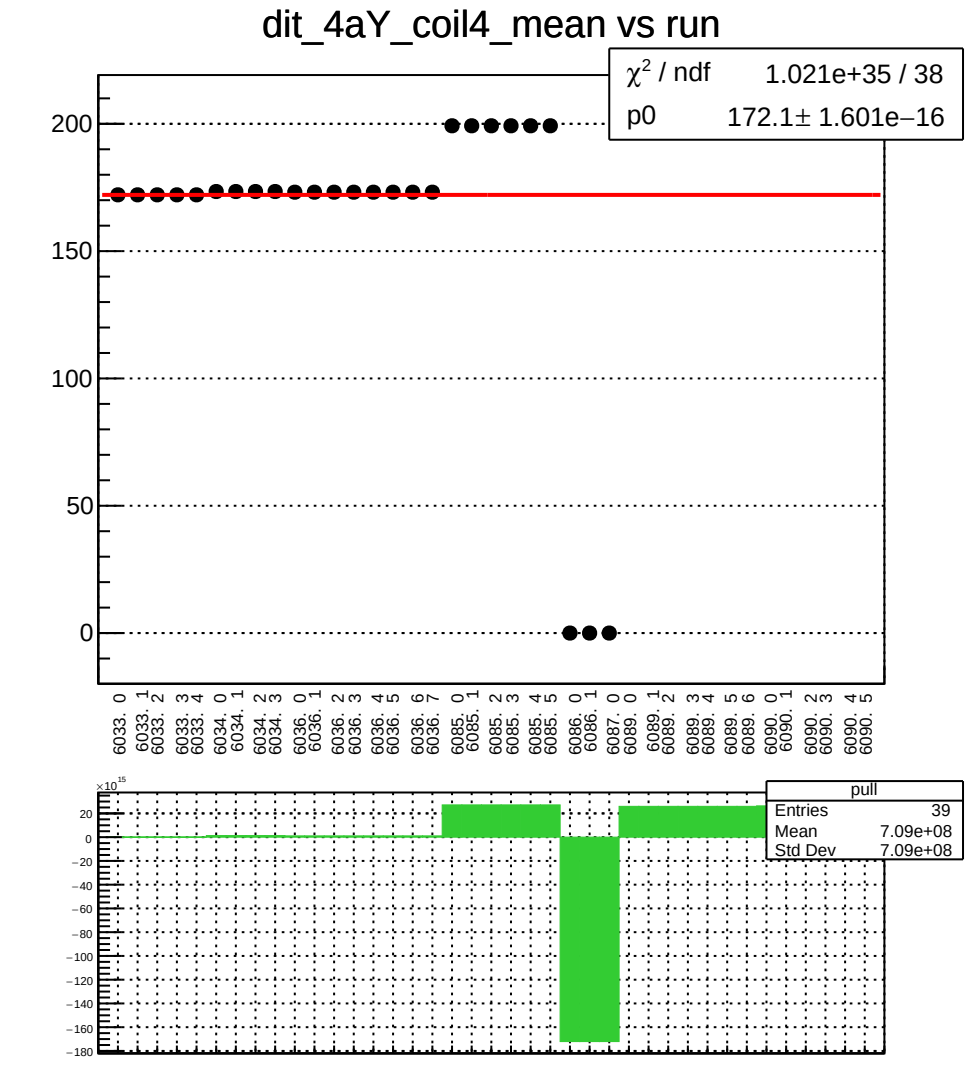

pull1D
Entries 39
Mean 0
Std Dev 0

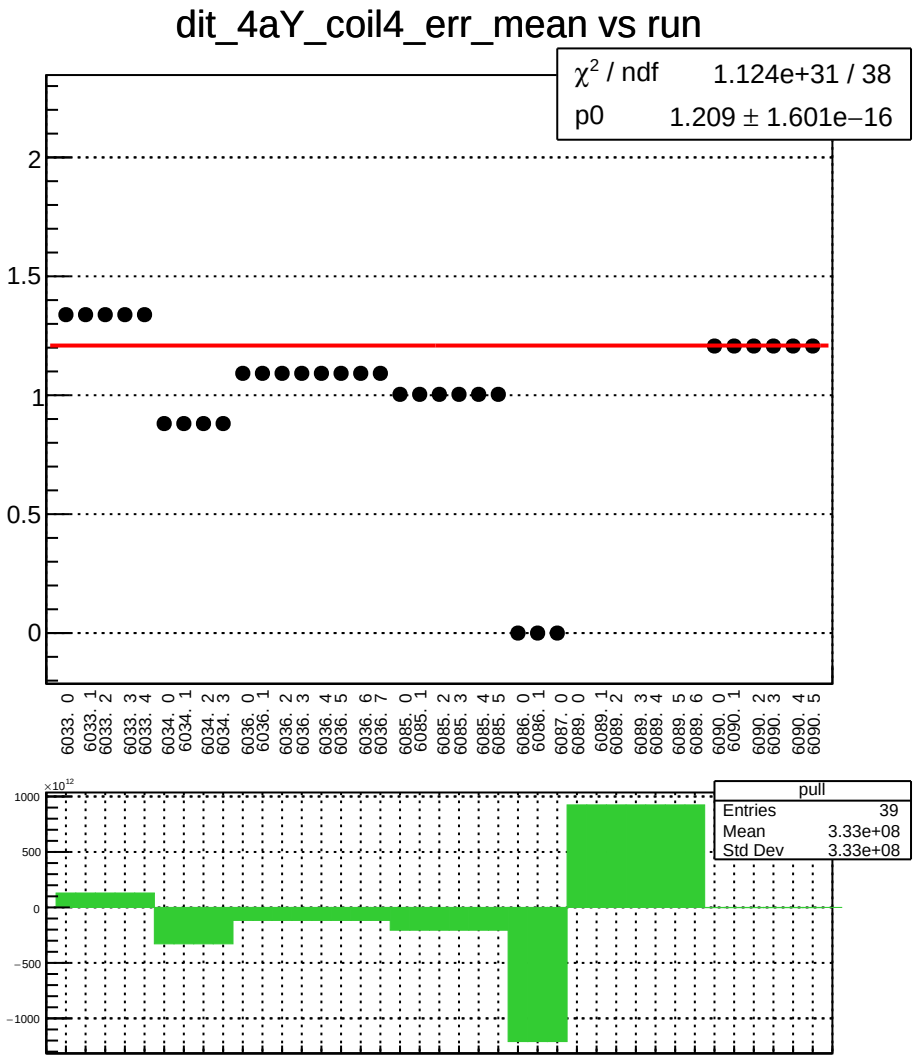

dit_4eX_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

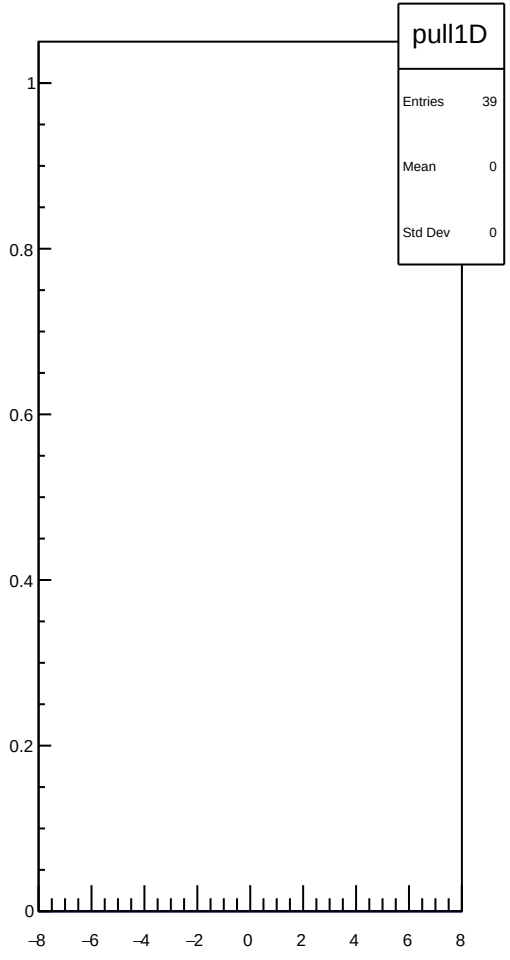

dit_11X12X_coil4_mean vs run
χ² / ndf 1.414e+32 / 38
p0 0.1232 ± 1.601e−16
pull
Entries 39
Mean 7.109e+09
Std Dev 7.109e+09
pull1D
Entries 39
Mean 0
Std Dev 0

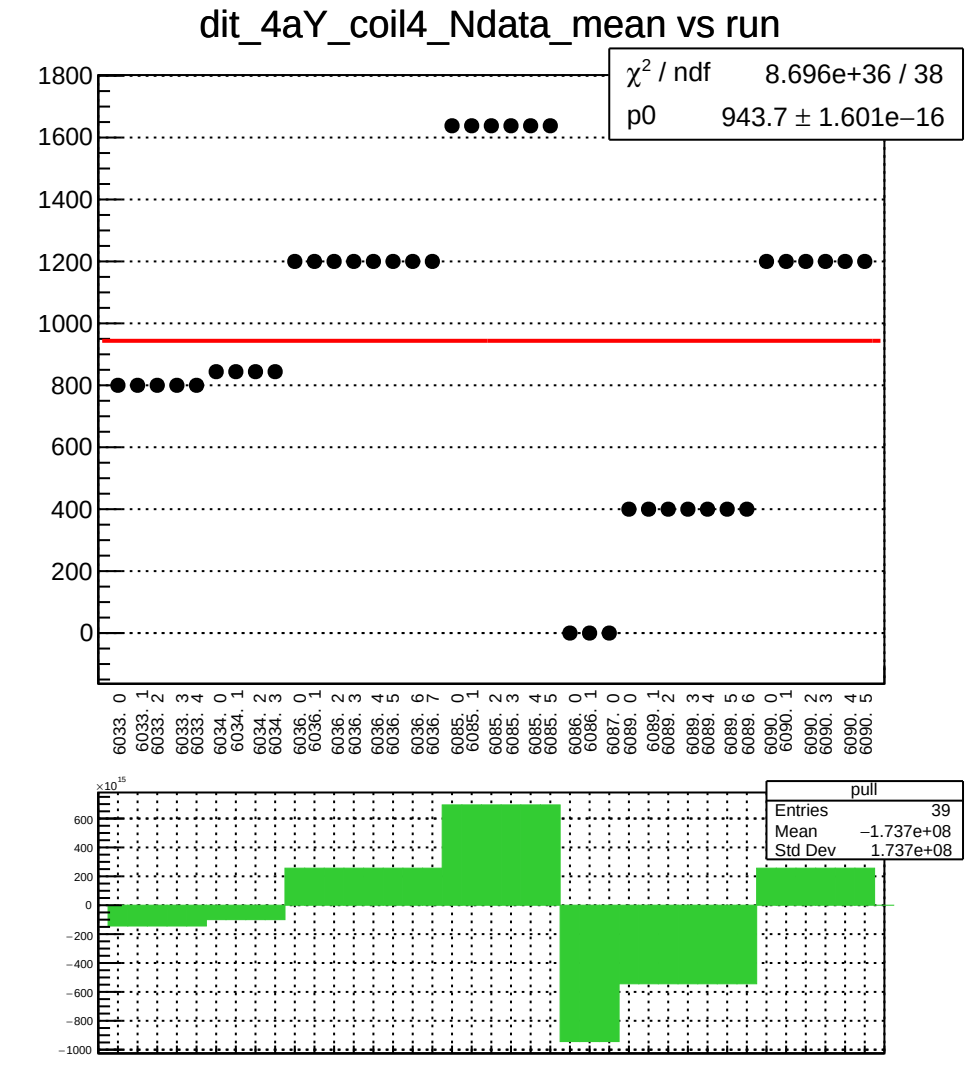

dit_11X12X_coil4_err_mean vs run
χ² / ndf 2.524e+32 / 38
p0 6.312 ± 1.601e−16
10
8
6
4
2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
4000
2000
0
−2000
−4000
−6000
pull
Entries 39
Mean 2.476e+08
Std Dev 2.476e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

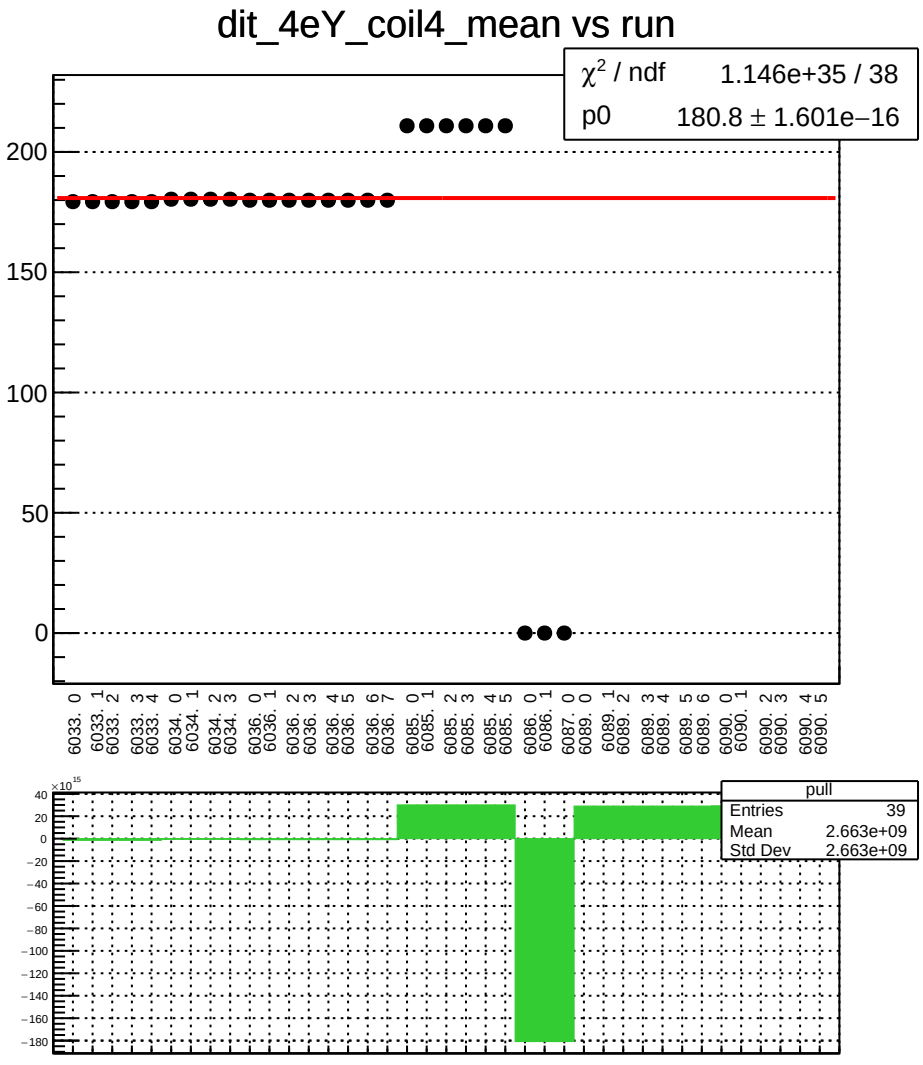

dit_11X12X_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

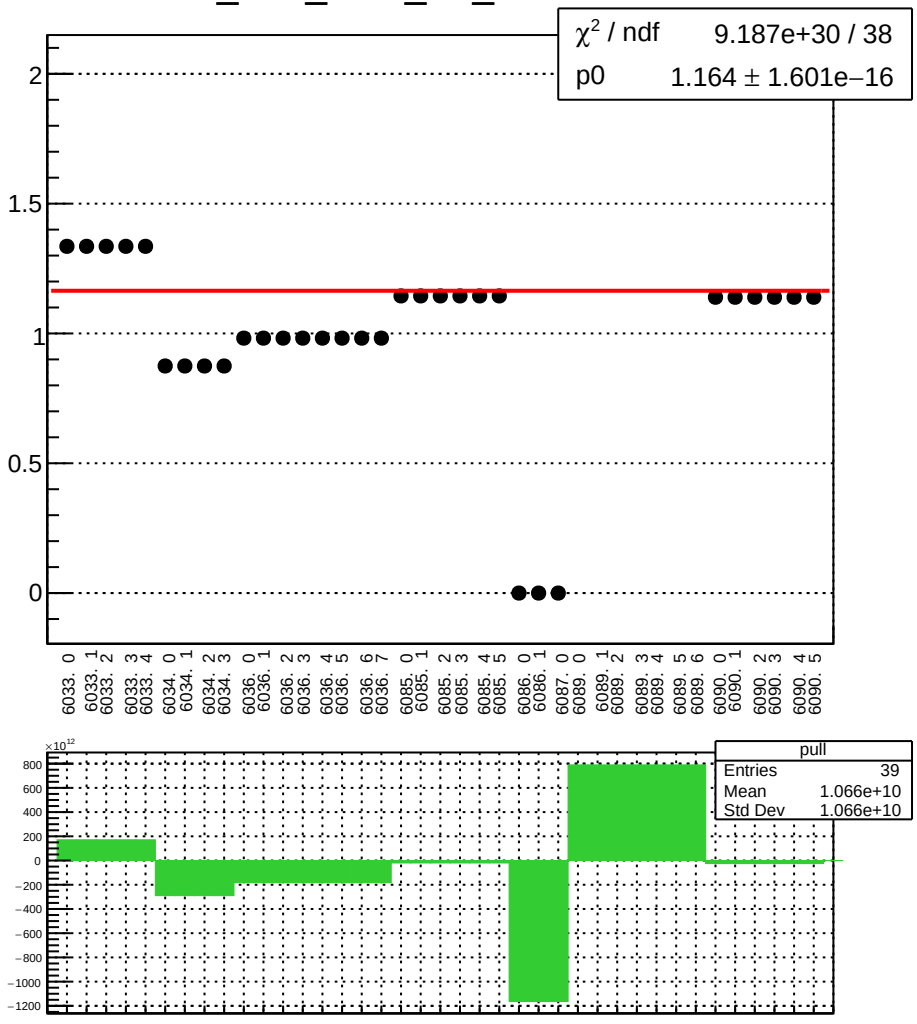

dit_4aY_coil4_mean vs run
χ² / ndf 1.021e+35 / 38
p0 172.1± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull
Entries 39
Mean 7.09e+08
Std Dev 7.09e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

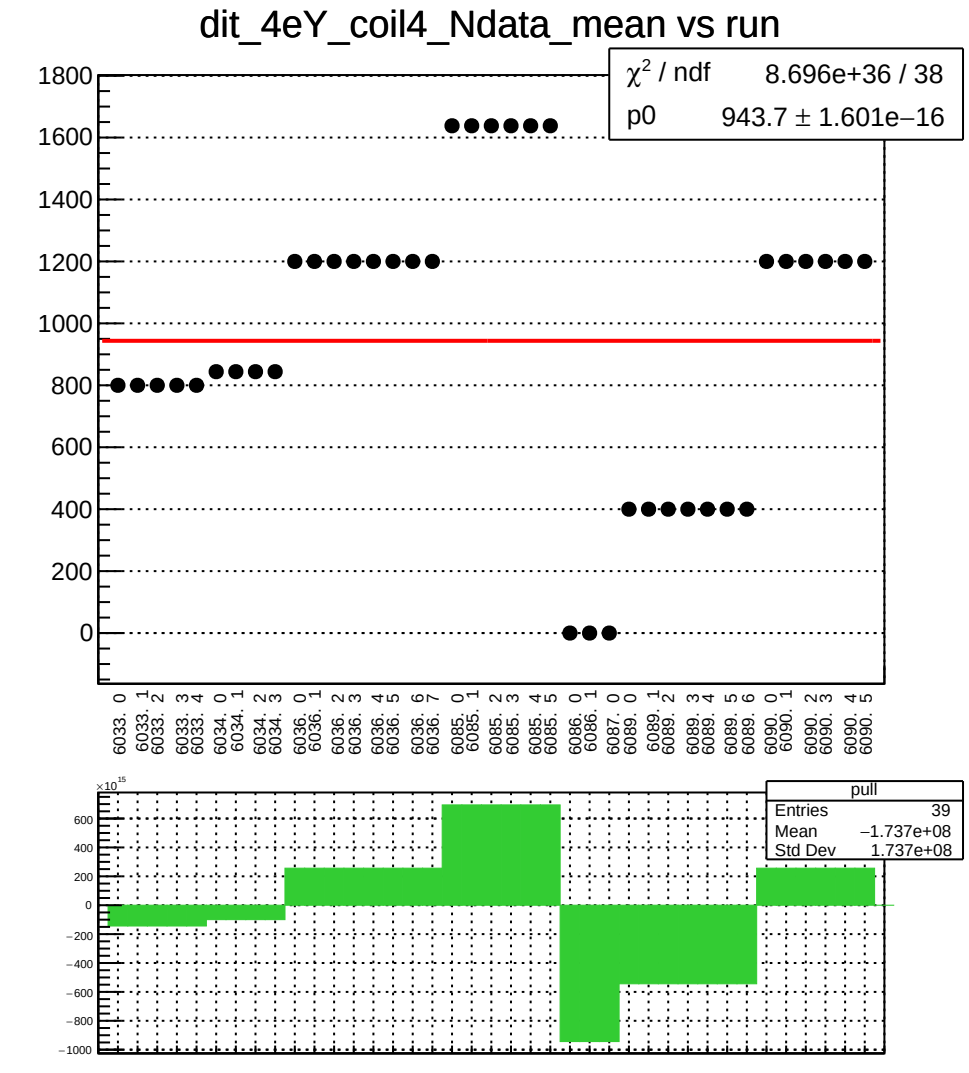

dit_4aY_coil4_err_mean vs run
χ² / ndf 1.124e+31 / 38
p0 1.209 ± 1.601e−16
pull
Entries 39
Mean 3.33e+08
Std Dev 3.33e+08
×10¹²


pull1D
Entries 39
Mean 0
Std Dev 0


dit_4aY_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_4eY_coil4_mean vs run
χ² / ndf 1.146e+35 / 38
p0 180.8 ± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull
Entries 39
Mean 2.663e+09
Std Dev 2.663e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_4eY_coil4_err_mean vs run
χ² / ndf 9.187e+30 / 38
p0 1.164 ± 1.601e−16
2
1.5
1
0.5
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 39
Mean 1.066e+10
Std Dev 1.066e+10
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_4eY_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
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0.4
0.2
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−4
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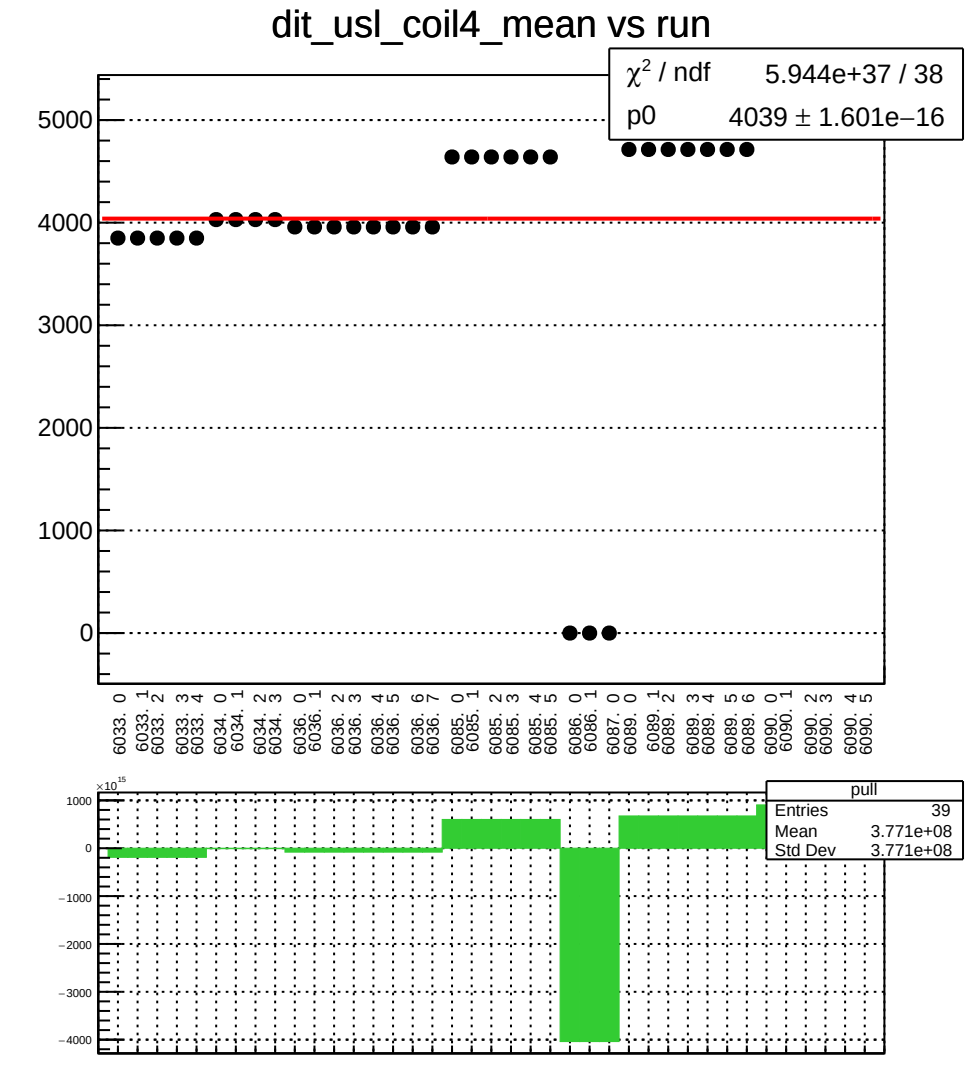
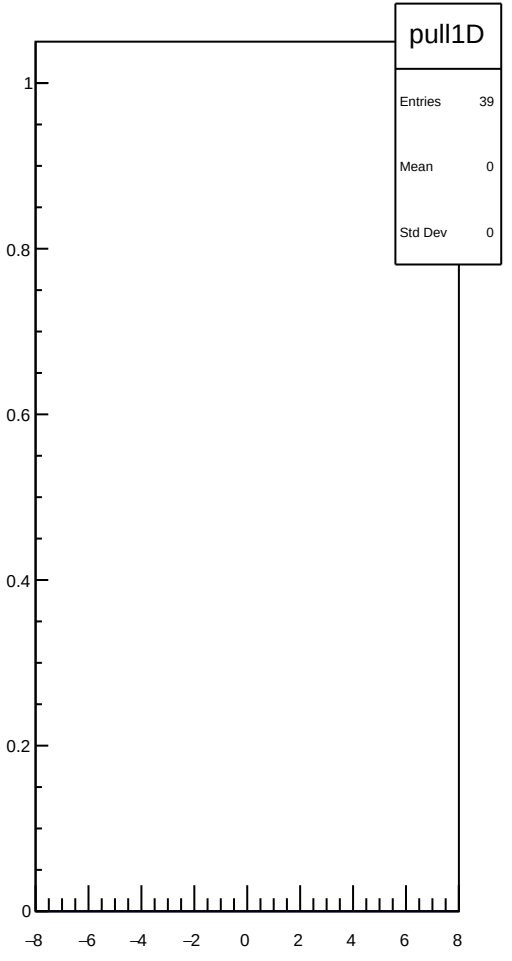
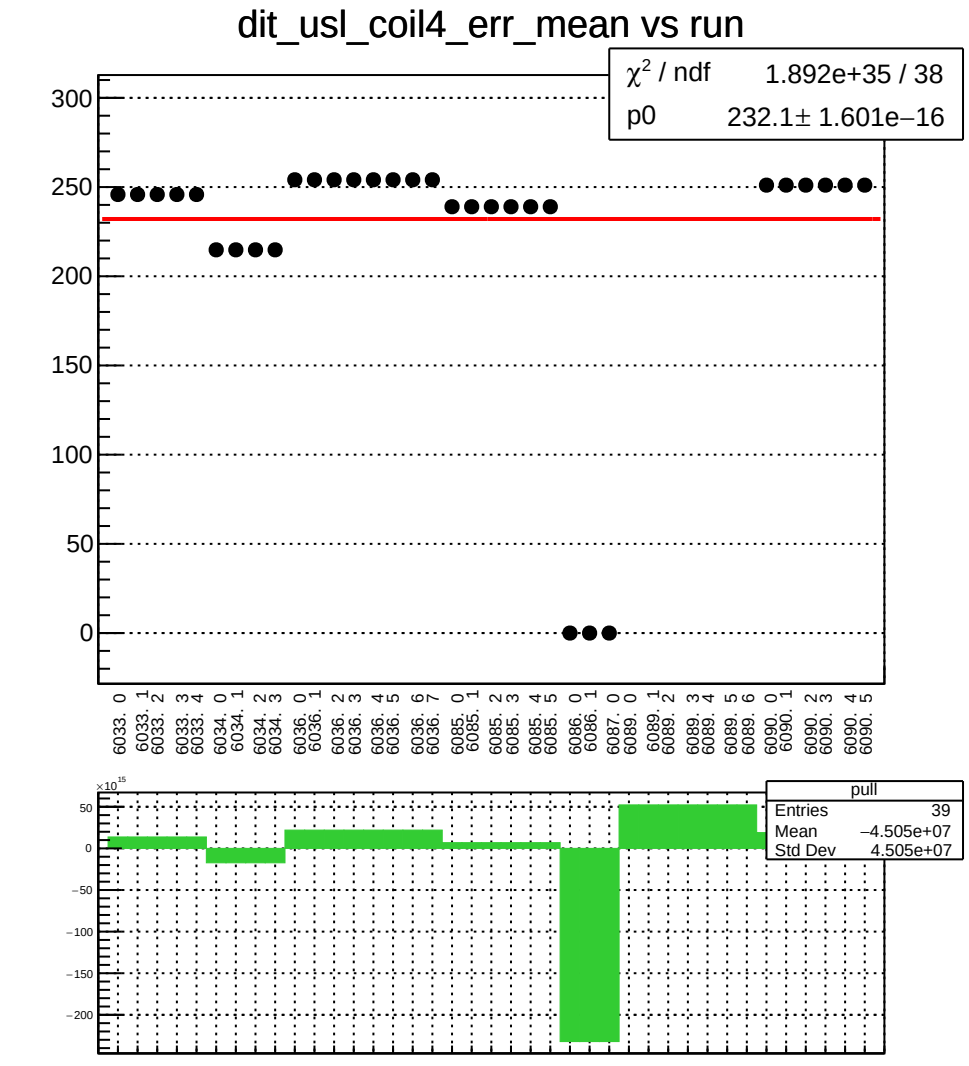
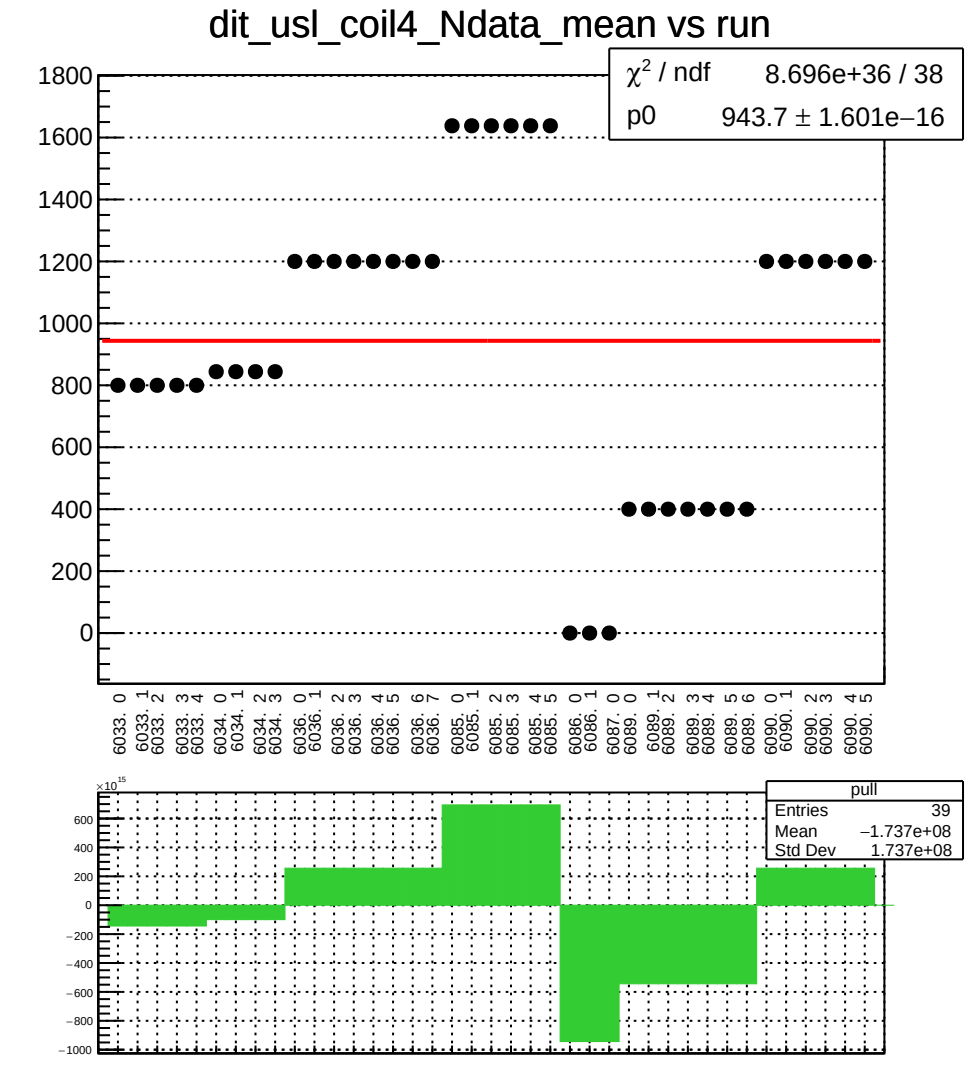
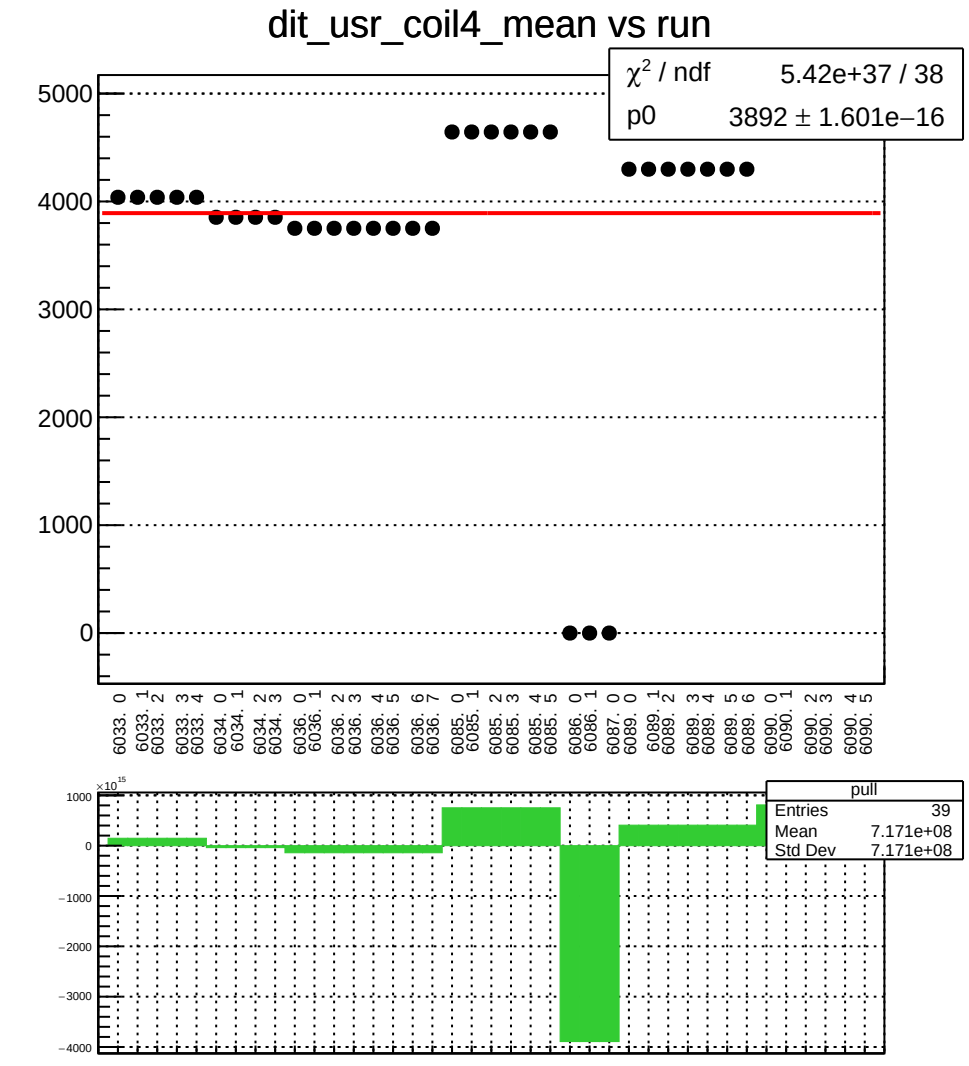
0
2
4
6
8

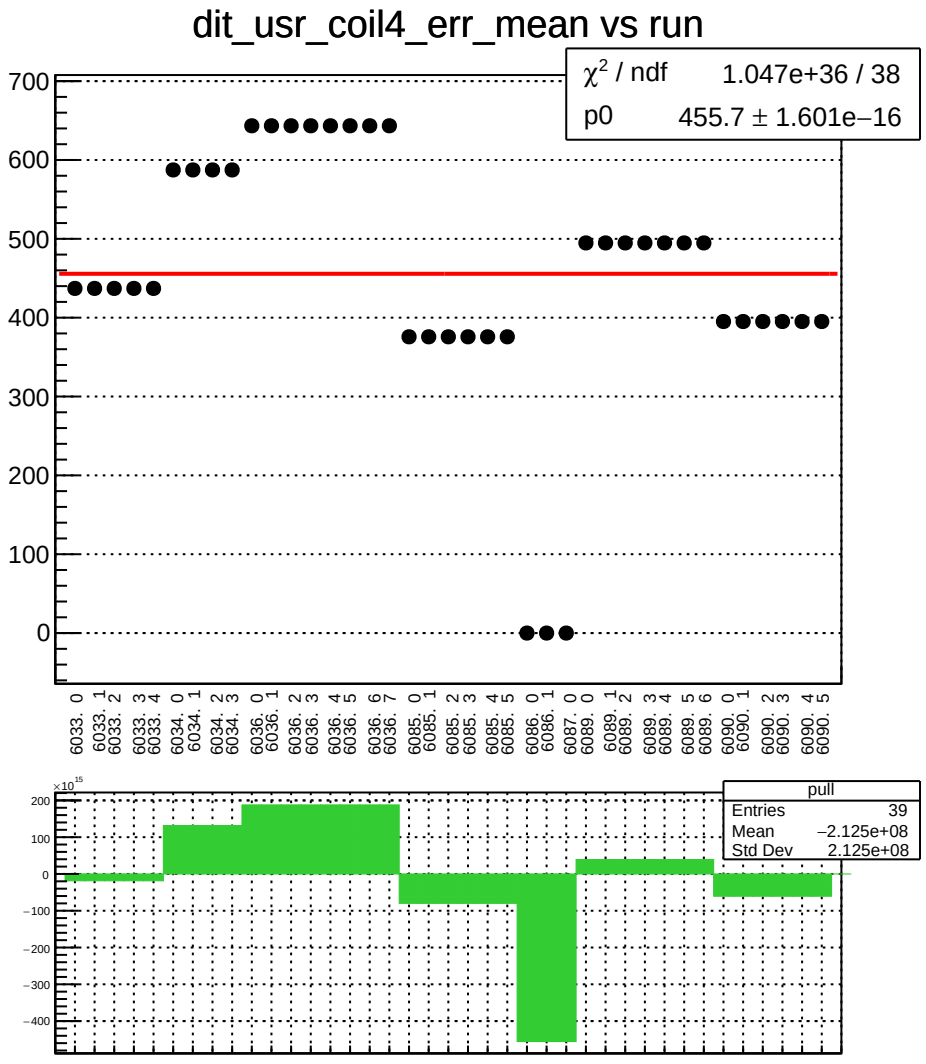

dit_usl_coil4_mean vs run
χ² / ndf 5.944e+37 / 38
p0 4039 ± 1.601e−16
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 3.771e+08
Std Dev 3.771e+08

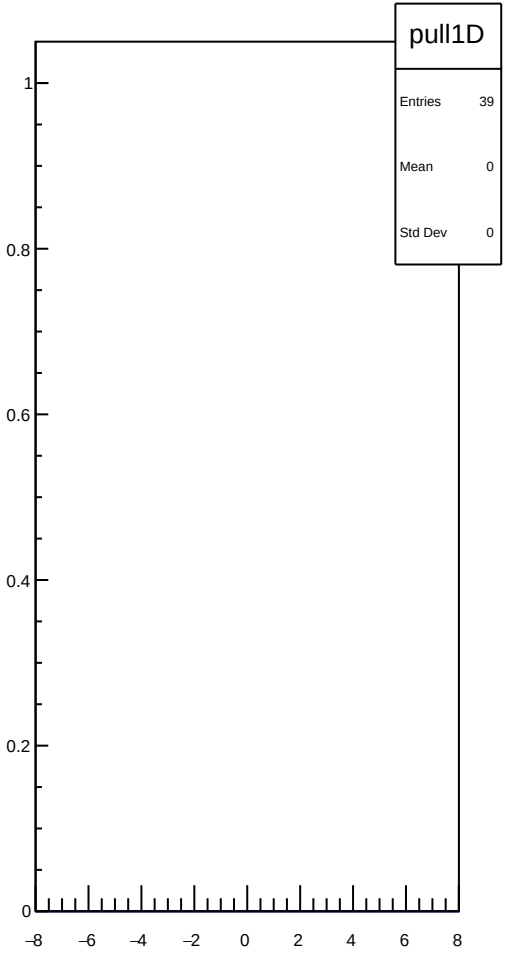

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

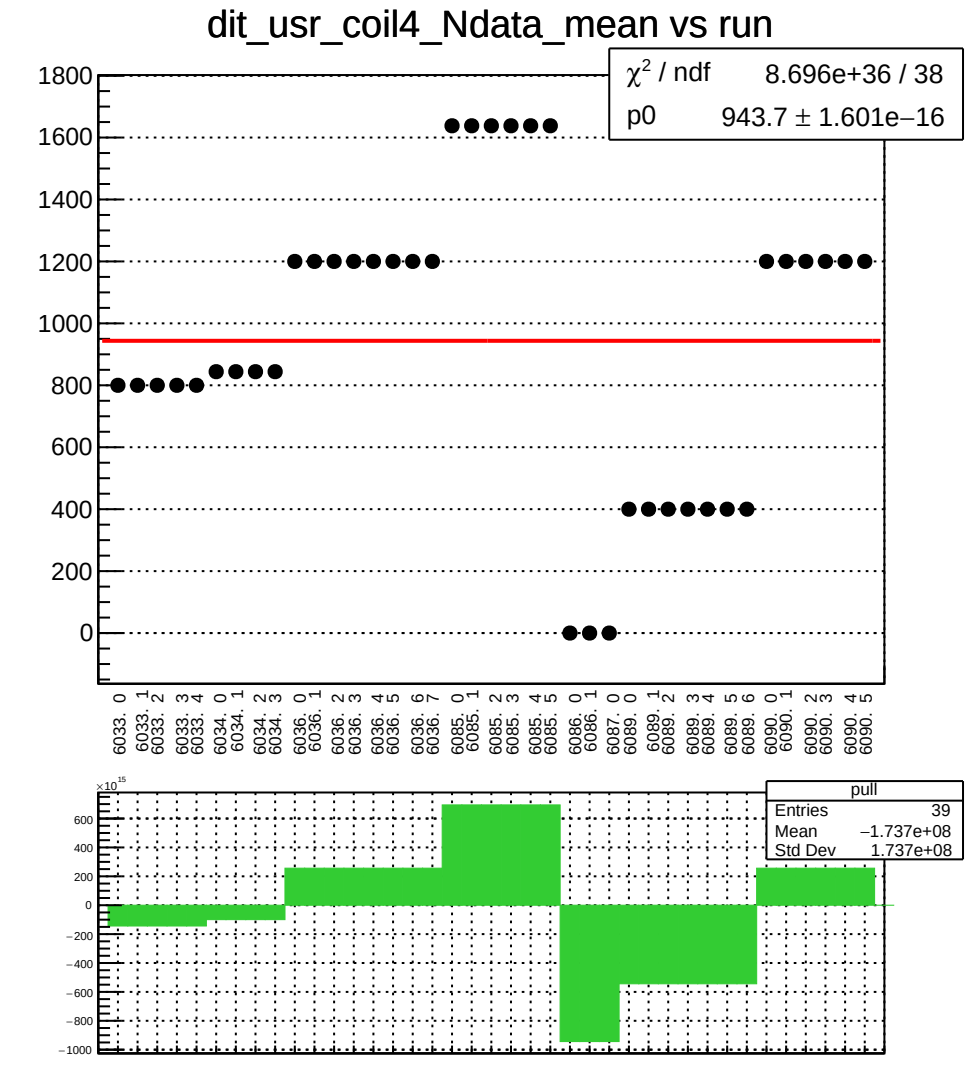

dit_usl_coil4_err_mean vs run
χ² / ndf 1.892e+35 / 38
p0 232.1± 1.601e−16
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
−200
pull
Entries 39
Mean −4.505e+07
Std Dev 4.505e+07
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

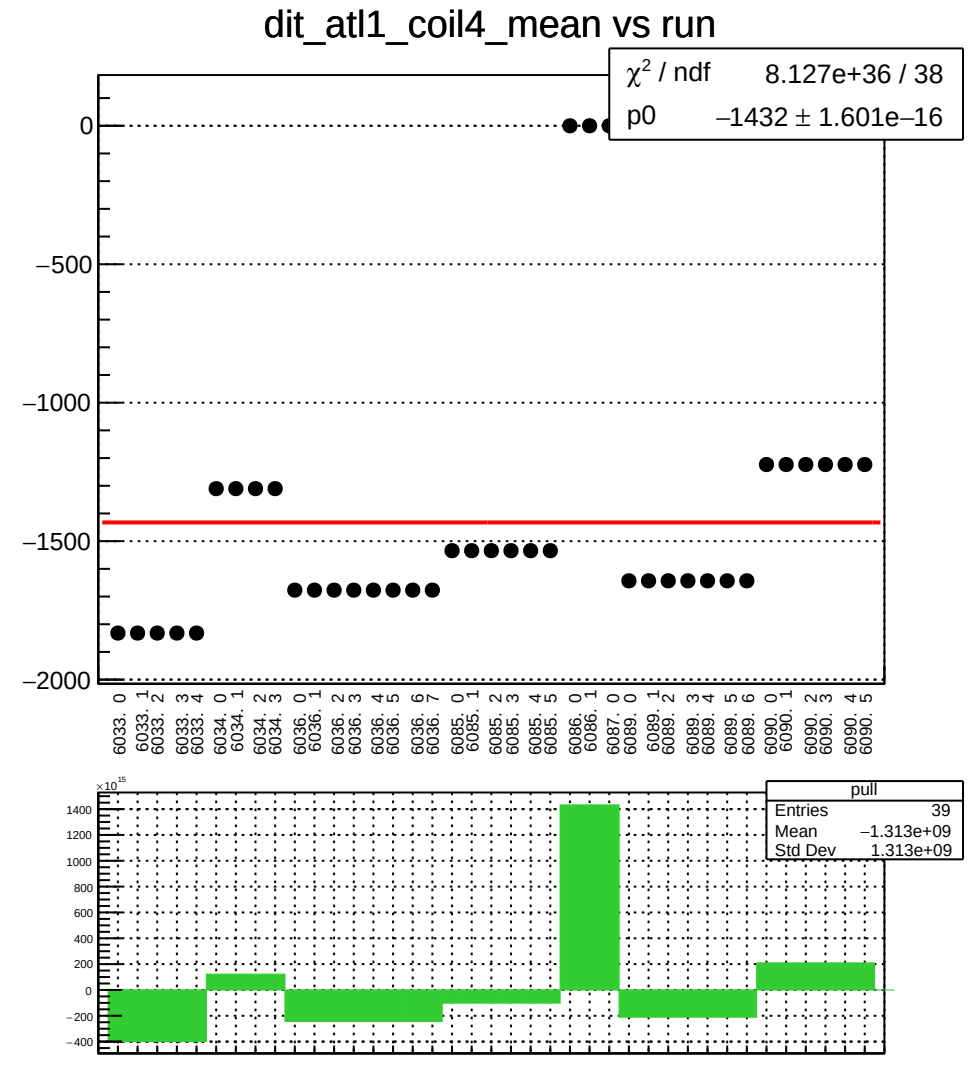

dit_usl_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

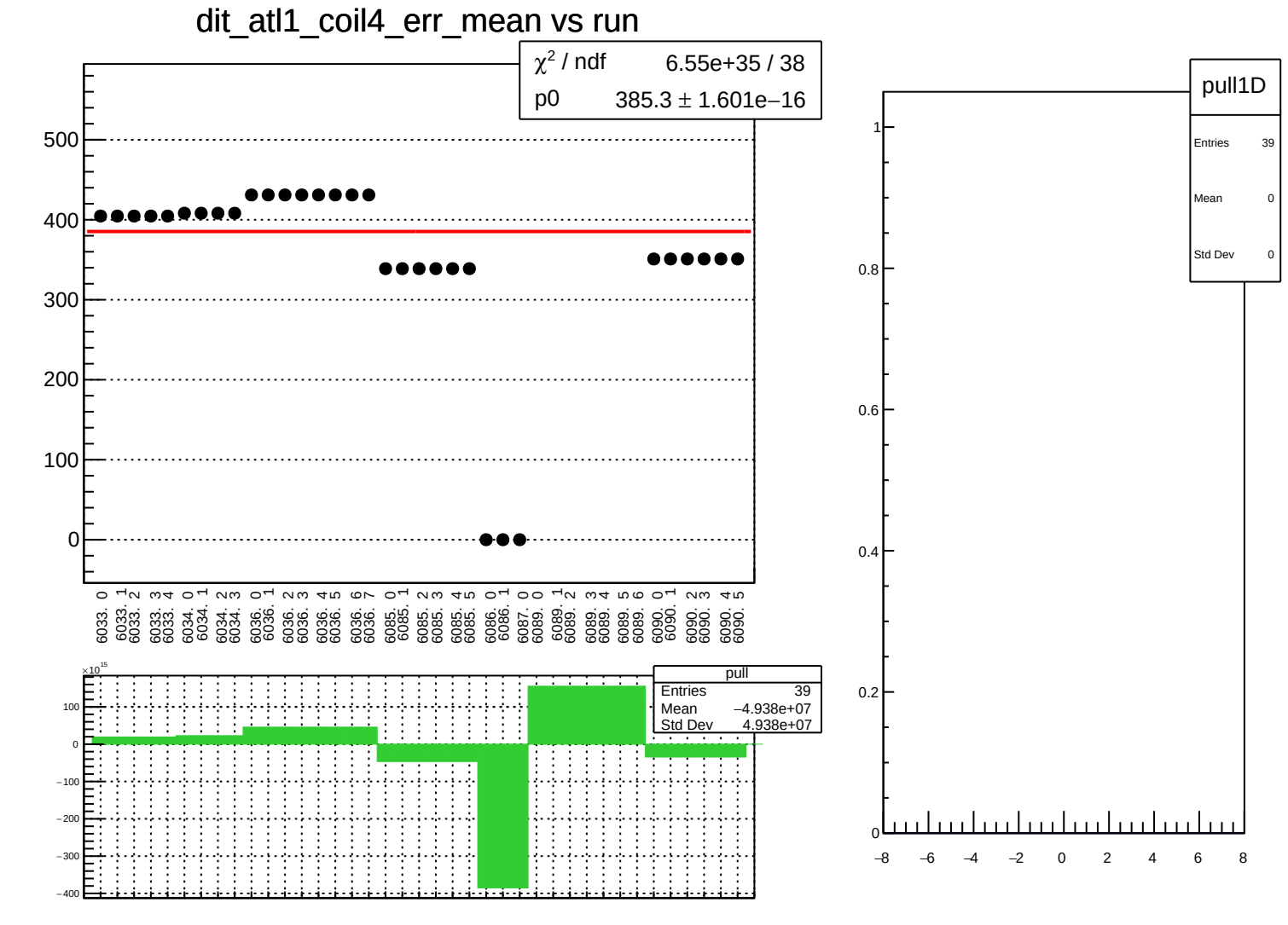

dit_usr_coil4_mean vs run
χ² / ndf 5.42e+37 / 38
p0 3892 ± 1.601e−16
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 7.171e+08
Std Dev 7.171e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

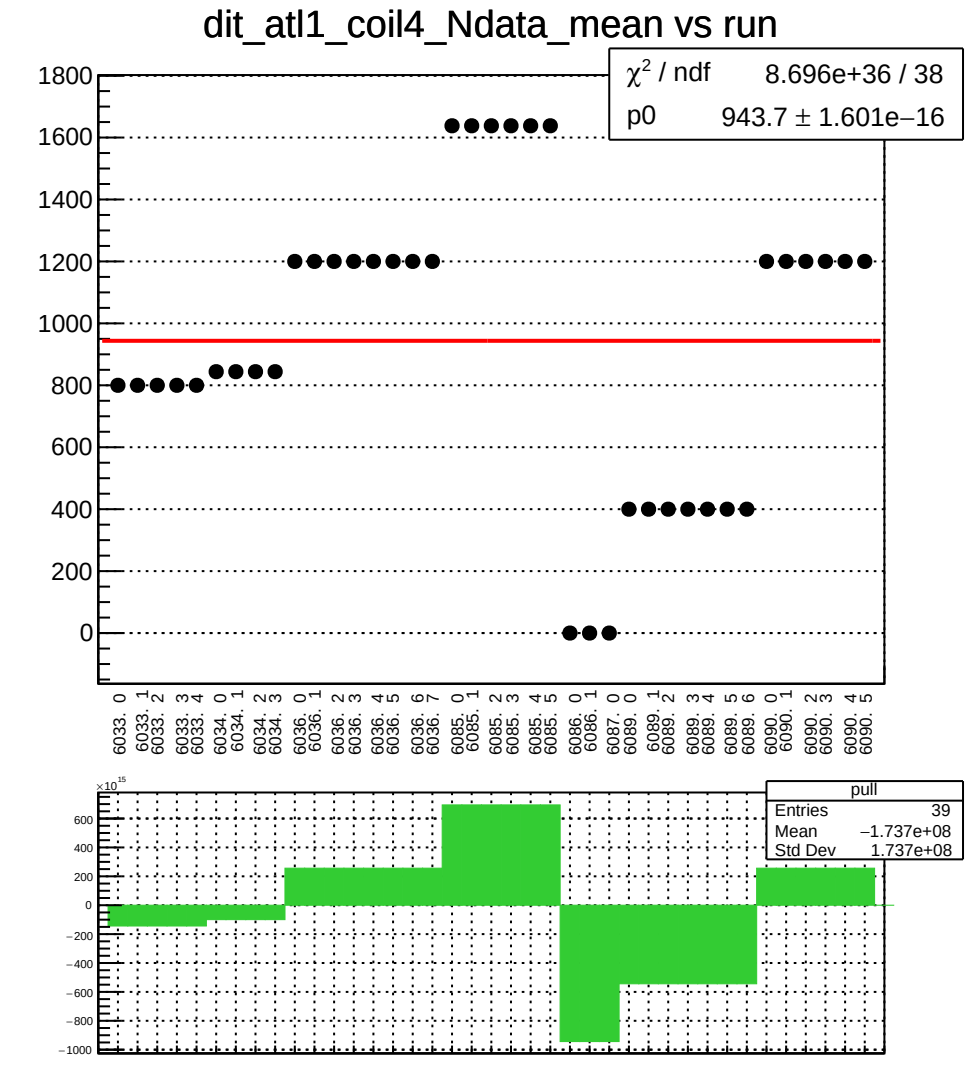

dit_usr_coil4_err_mean vs run
χ² / ndf 1.047e+36 / 38
p0 455.7 ± 1.601e−16
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
100
0
−100
−200
−300
−400
pull
Entries 39
Mean −2.125e+08
Std Dev 2.125e+08

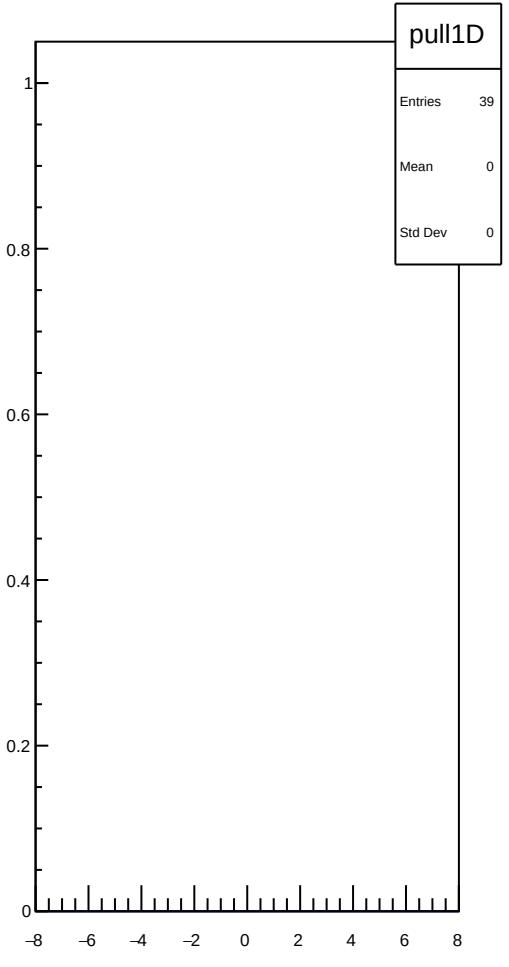

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

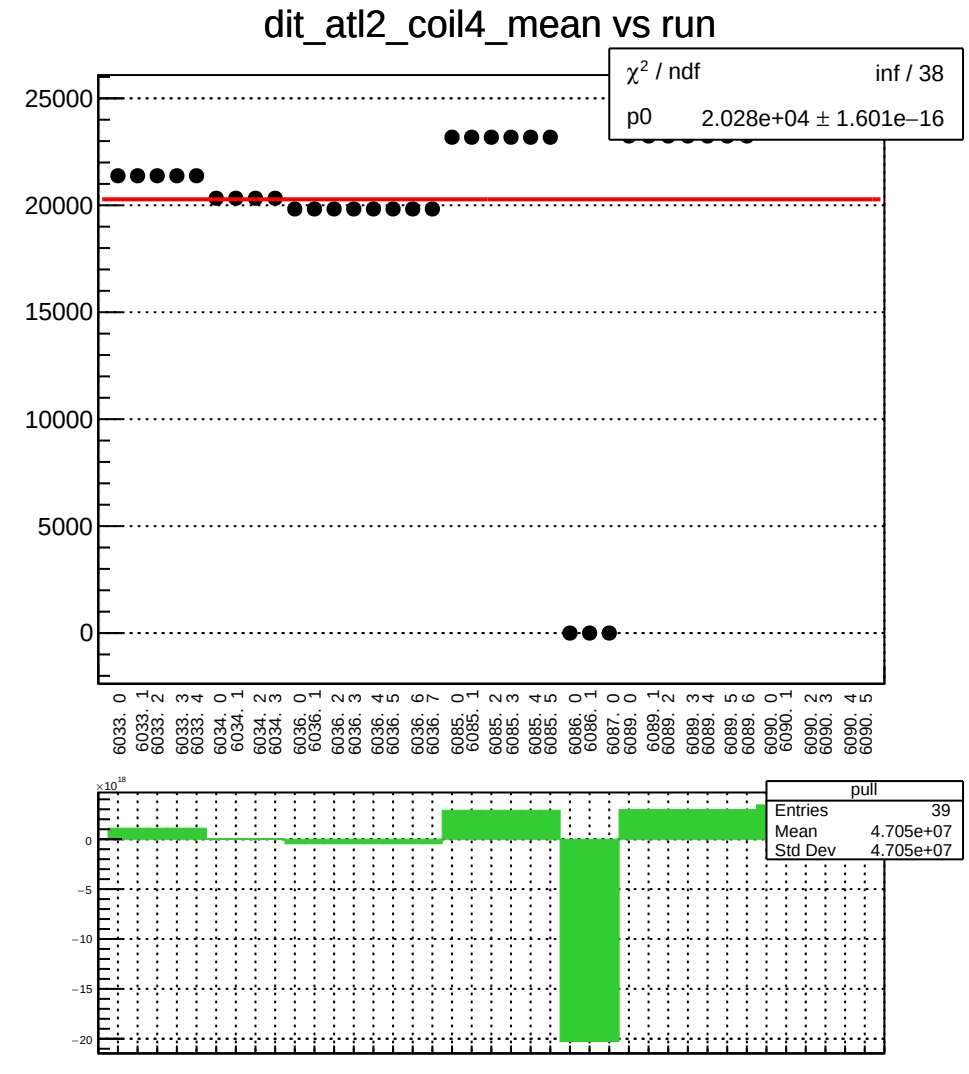

dit_usr_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

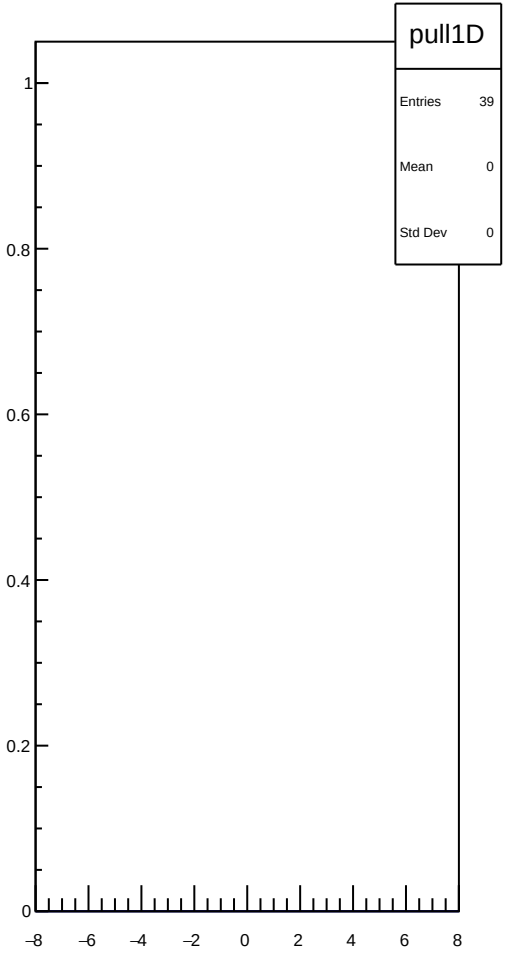

dit_atl1_coil4_mean vs run
χ² / ndf 8.127e+36 / 38
p0 −1432 ± 1.601e−16
0
−500
−1000
−1500
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1400
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 39
Mean −1.313e+09
Std Dev 1.313e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

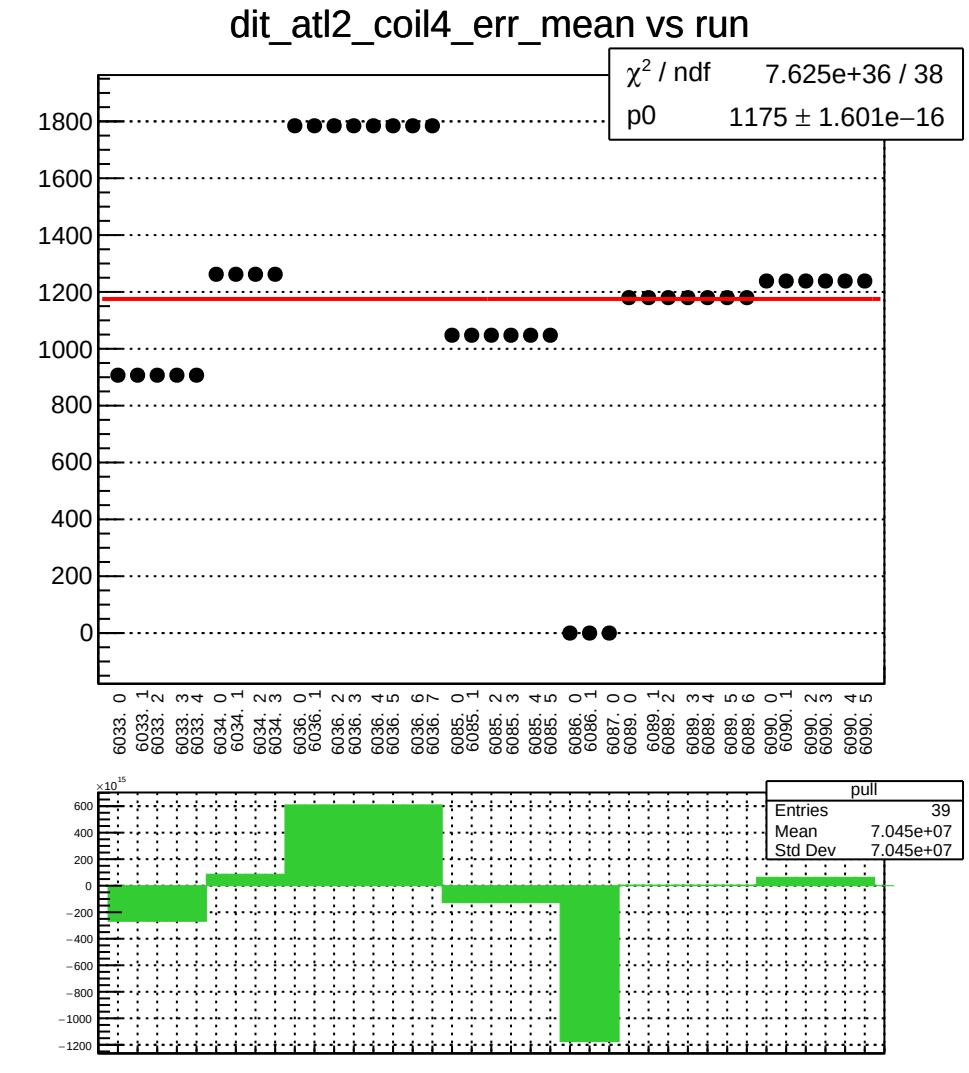

dit_atl1_coil4_err_mean vs run
χ² / ndf 6.55e+35 / 38
p0 385.3 ± 1.601e−16
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
pull
Entries 39
Mean −4.938e+07
Std Dev 4.938e+07
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

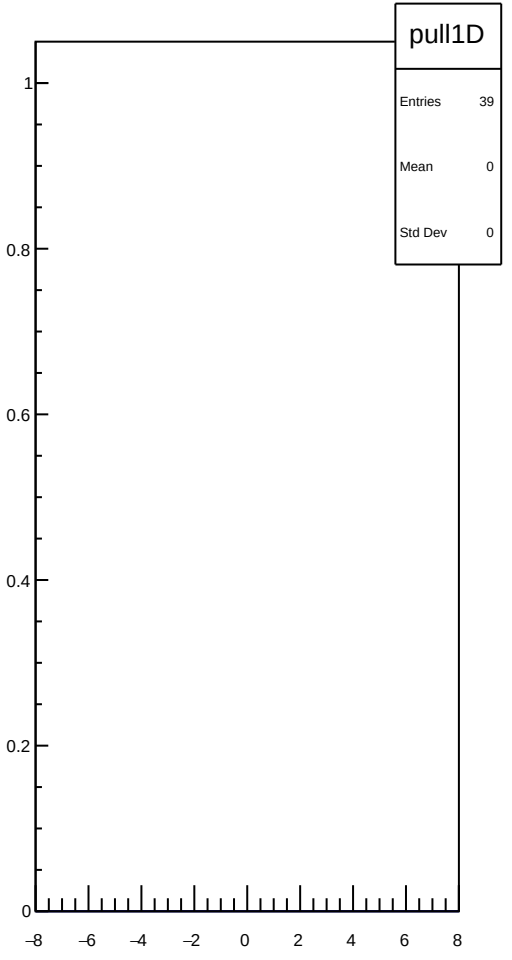

dit_atl1_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
×10¹⁵

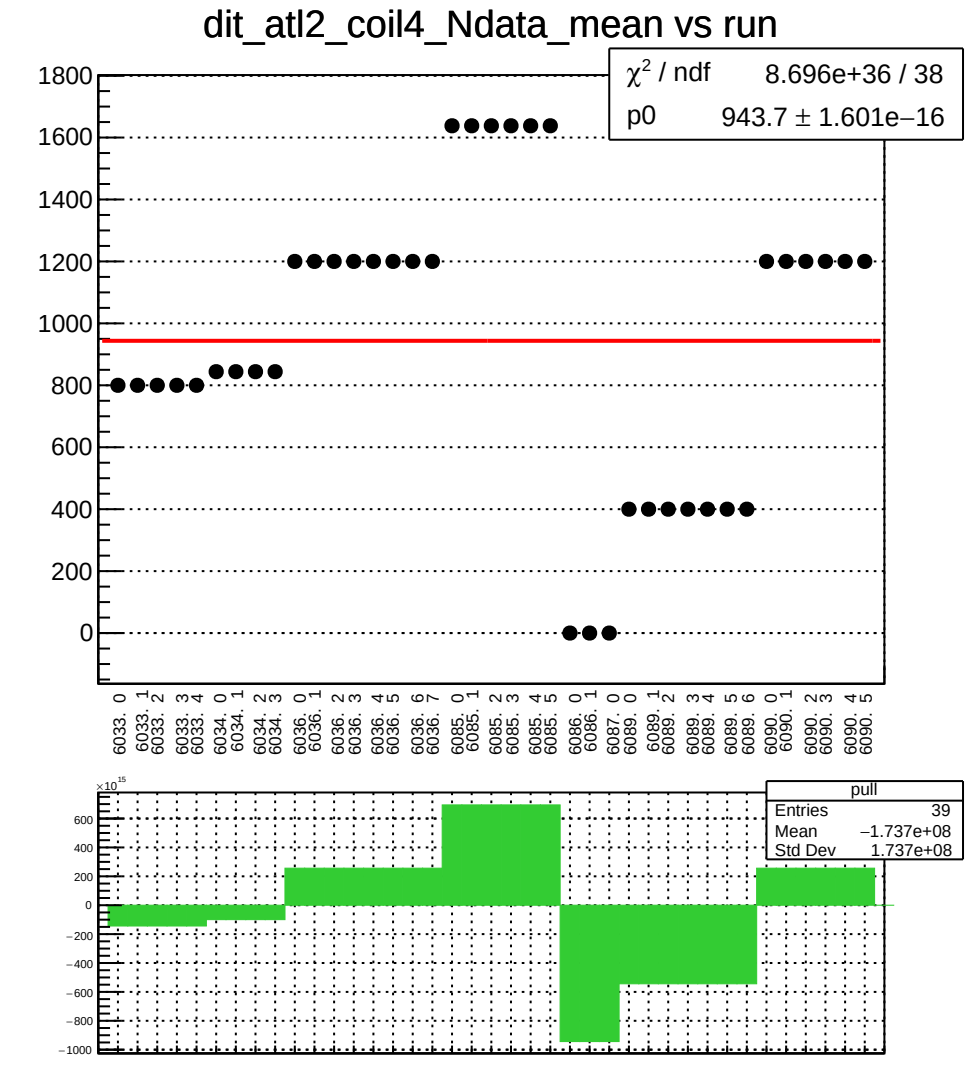

pull1D
Entries 39
Mean 0
Std Dev 0

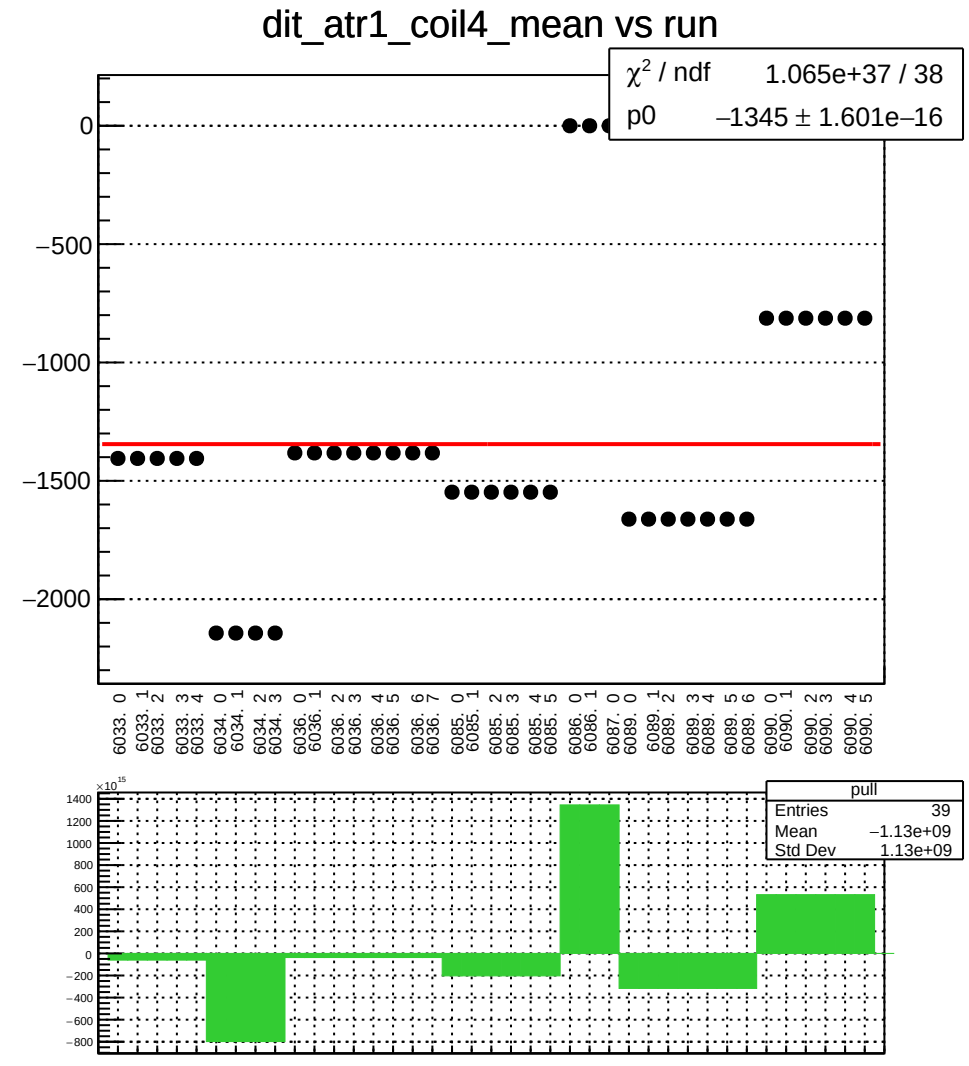

dit_atl2_coil4_mean vs run
χ² / ndf inf / 38
p0 2.028e+04 ± 1.601e−16
25000
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
0
−5
−10
−15
−20
pull
Entries 39
Mean 4.705e+07
Std Dev 4.705e+07

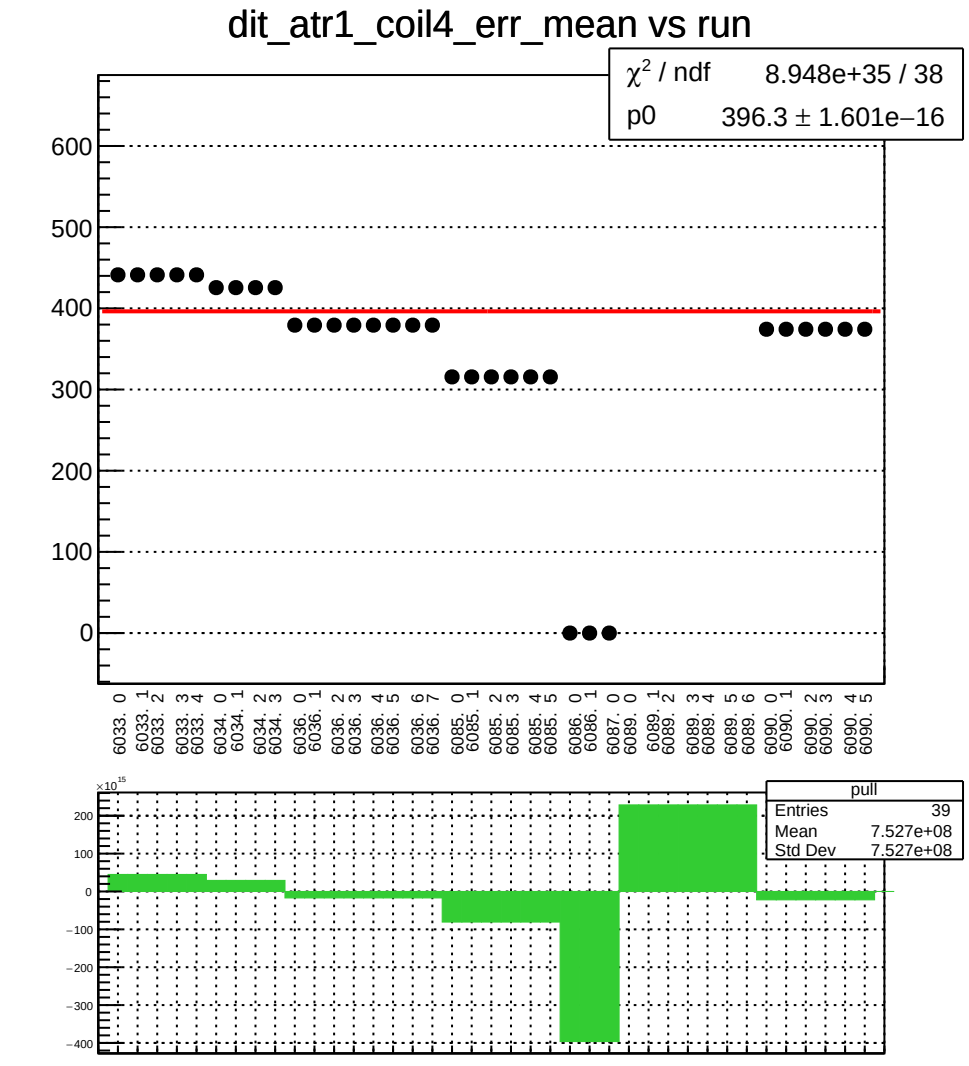

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

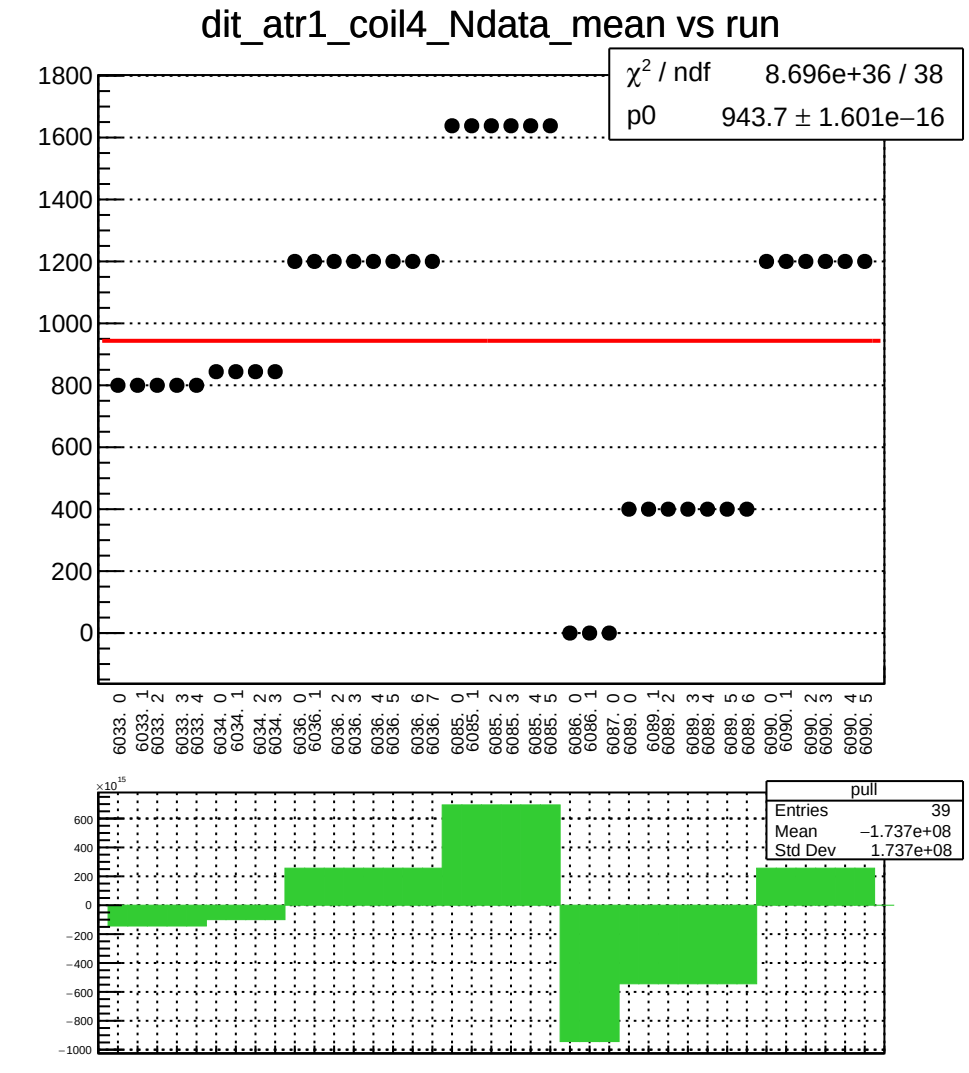

dit_atl2_coil4_err_mean vs run
χ² / ndf 7.625e+36 / 38
p0 1175 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 39
Mean 7.045e+07
Std Dev 7.045e+07

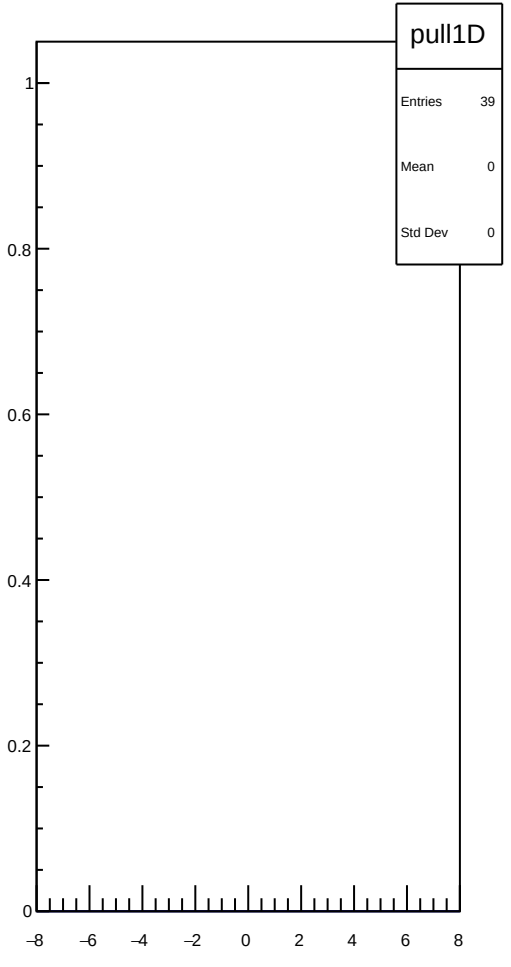

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

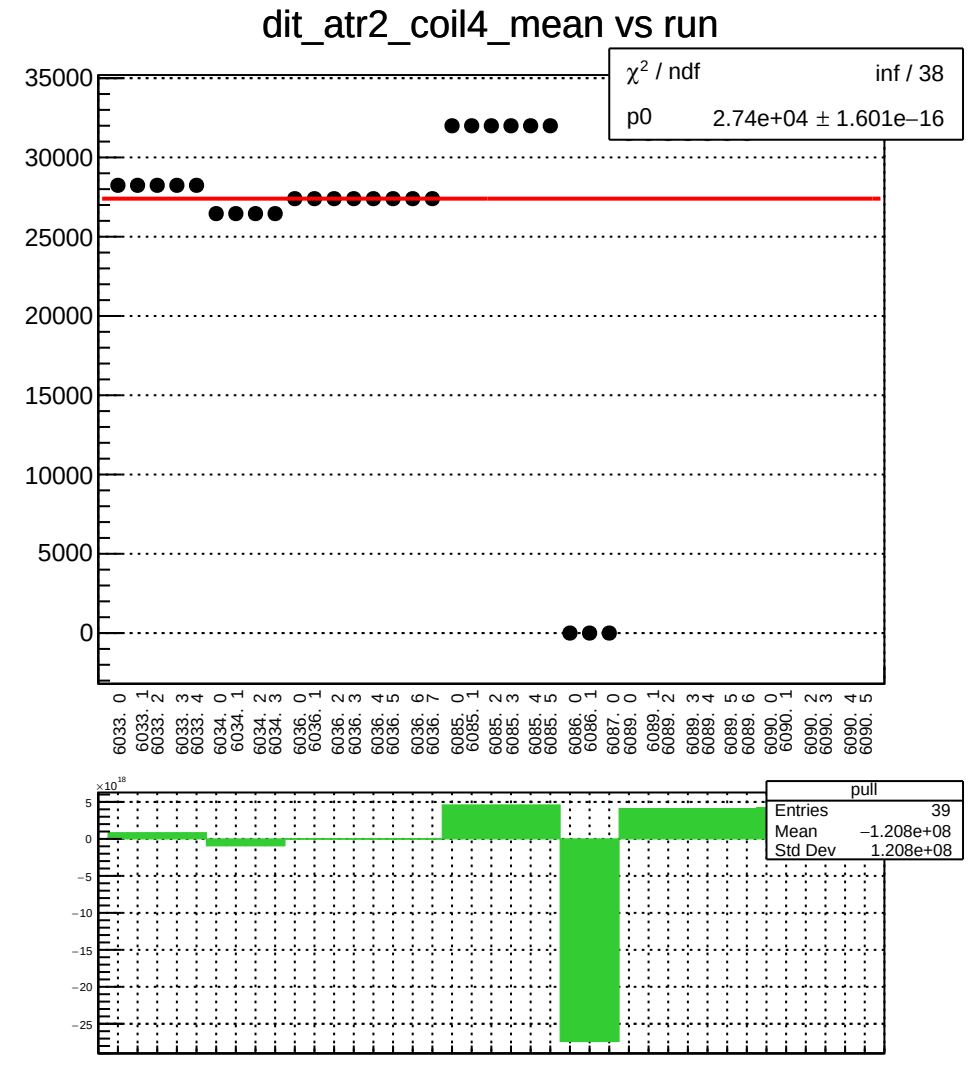

dit_atl2_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

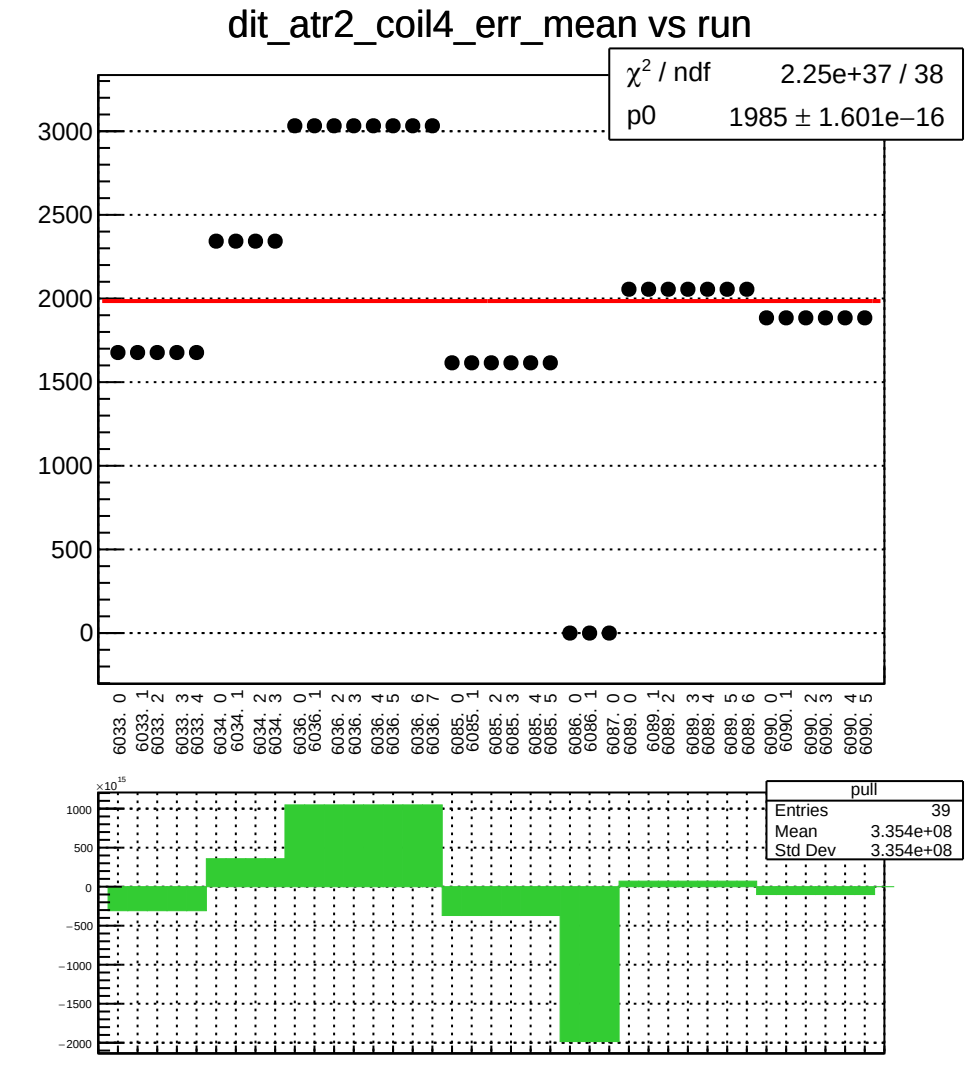

dit_atr1_coil4_mean vs run
χ² / ndf 1.065e+37 / 38
p0 −1345 ± 1.601e−16
0
−500
−1000
−1500
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −1.13e+09
Std Dev 1.13e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

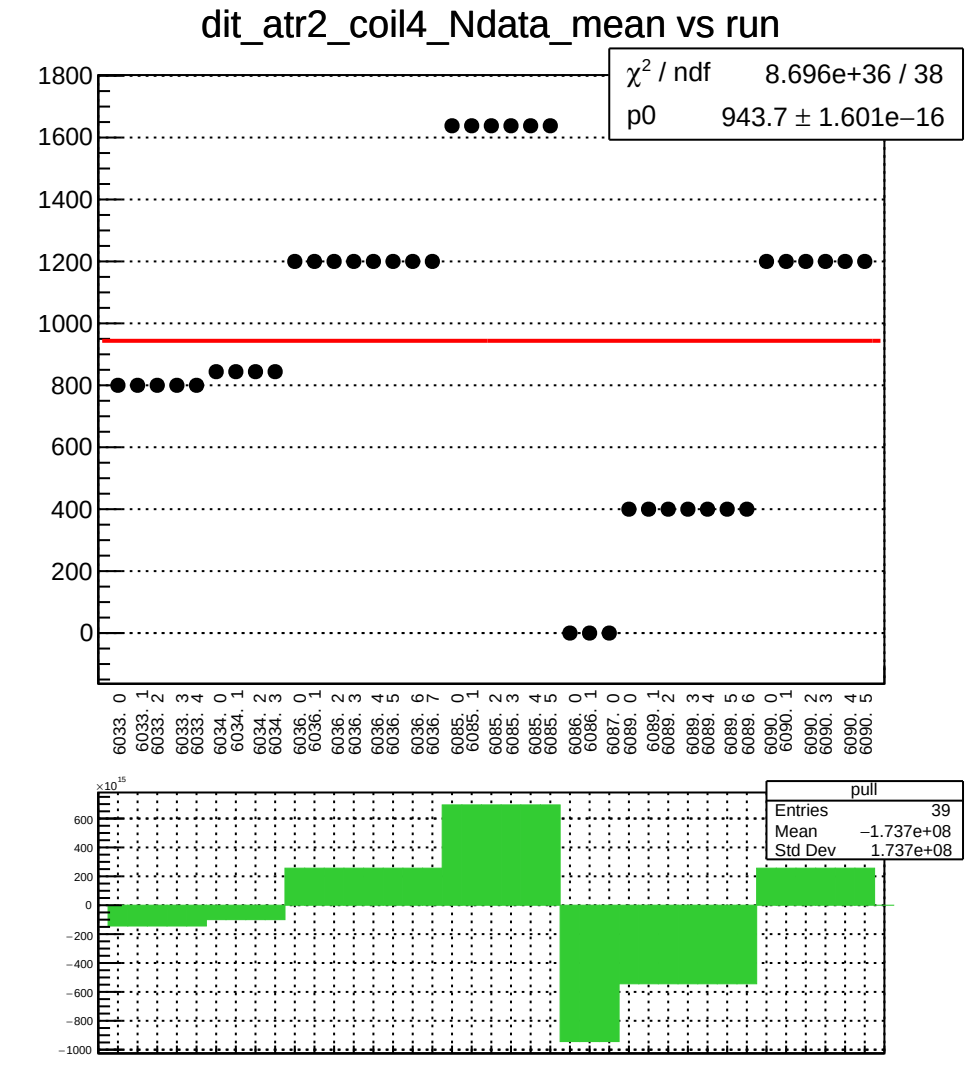

dit_atr1_coil4_err_mean vs run
χ² / ndf 8.948e+35 / 38
p0 396.3 ± 1.601e−16
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
100
0
−100
−200
−300
−400
pull
Entries 39
Mean 7.527e+08
Std Dev 7.527e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

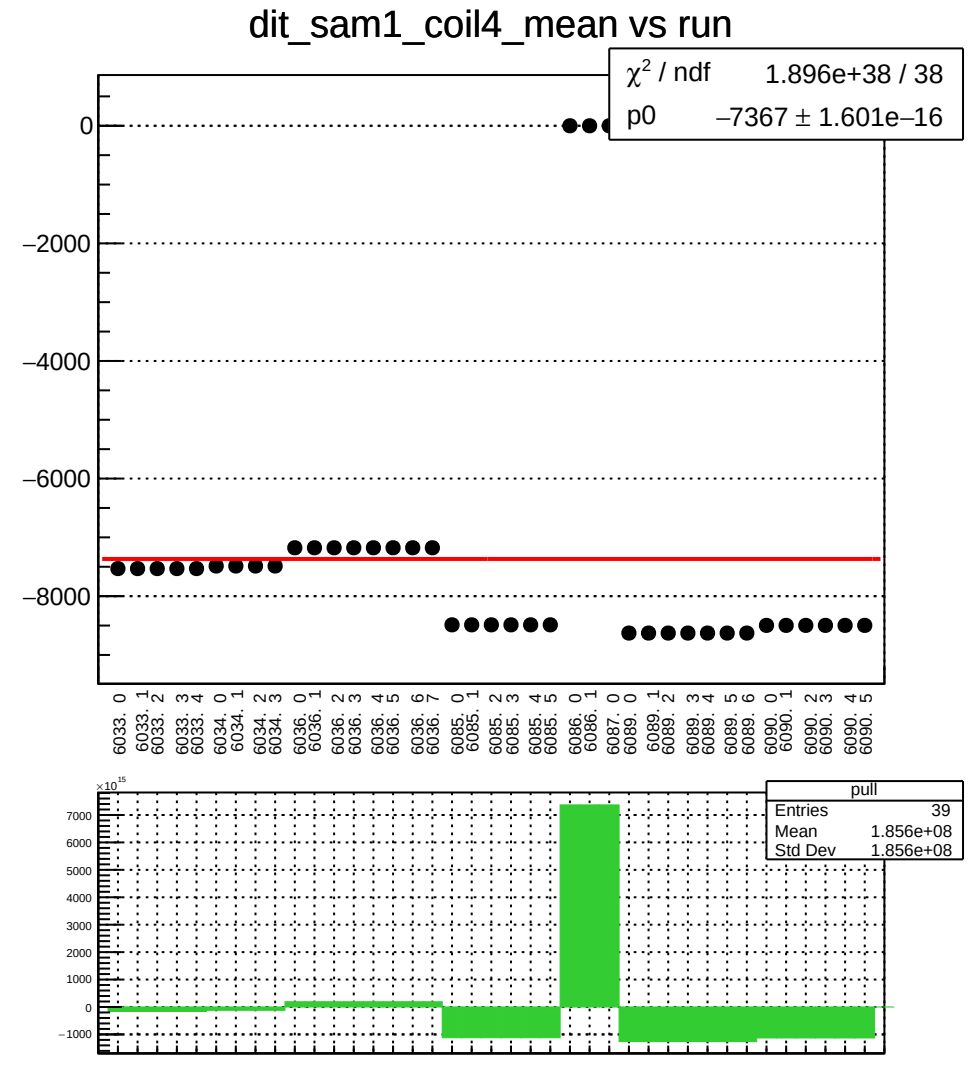

dit_atr1_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08

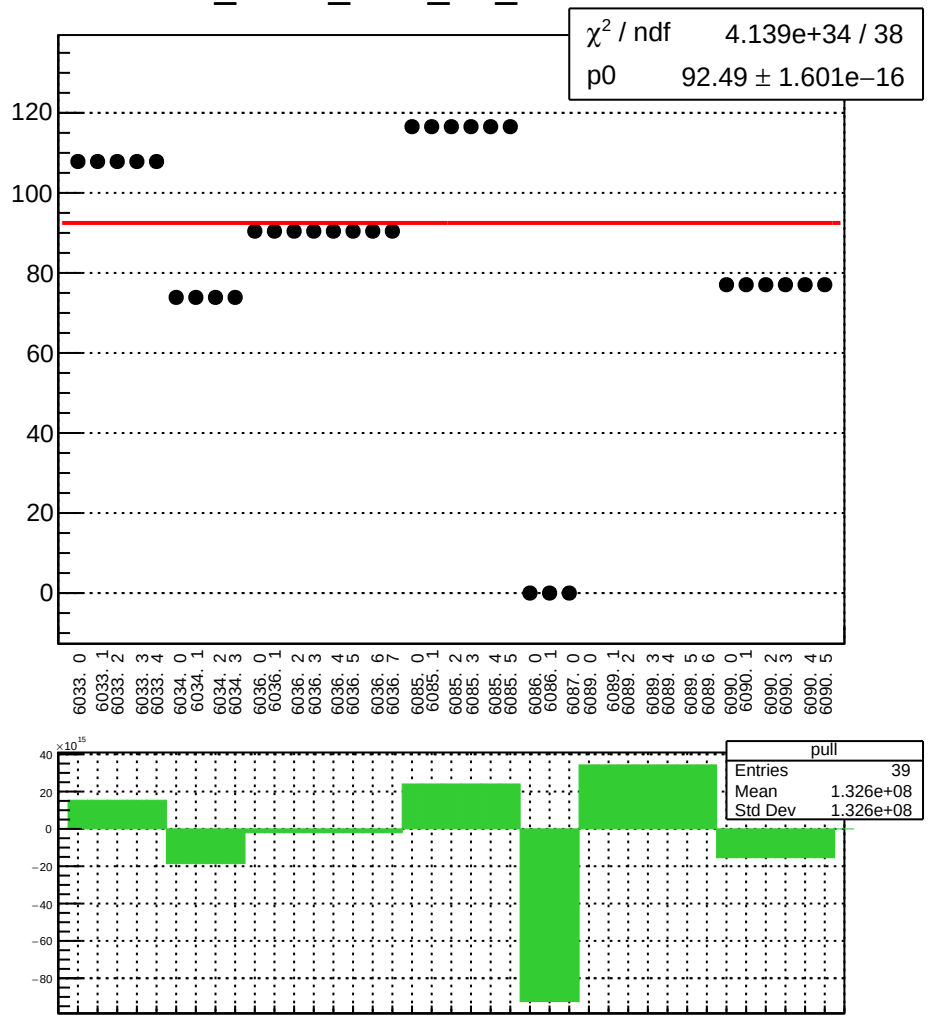

pull1D
Entries 39
Mean 0
Std Dev 0

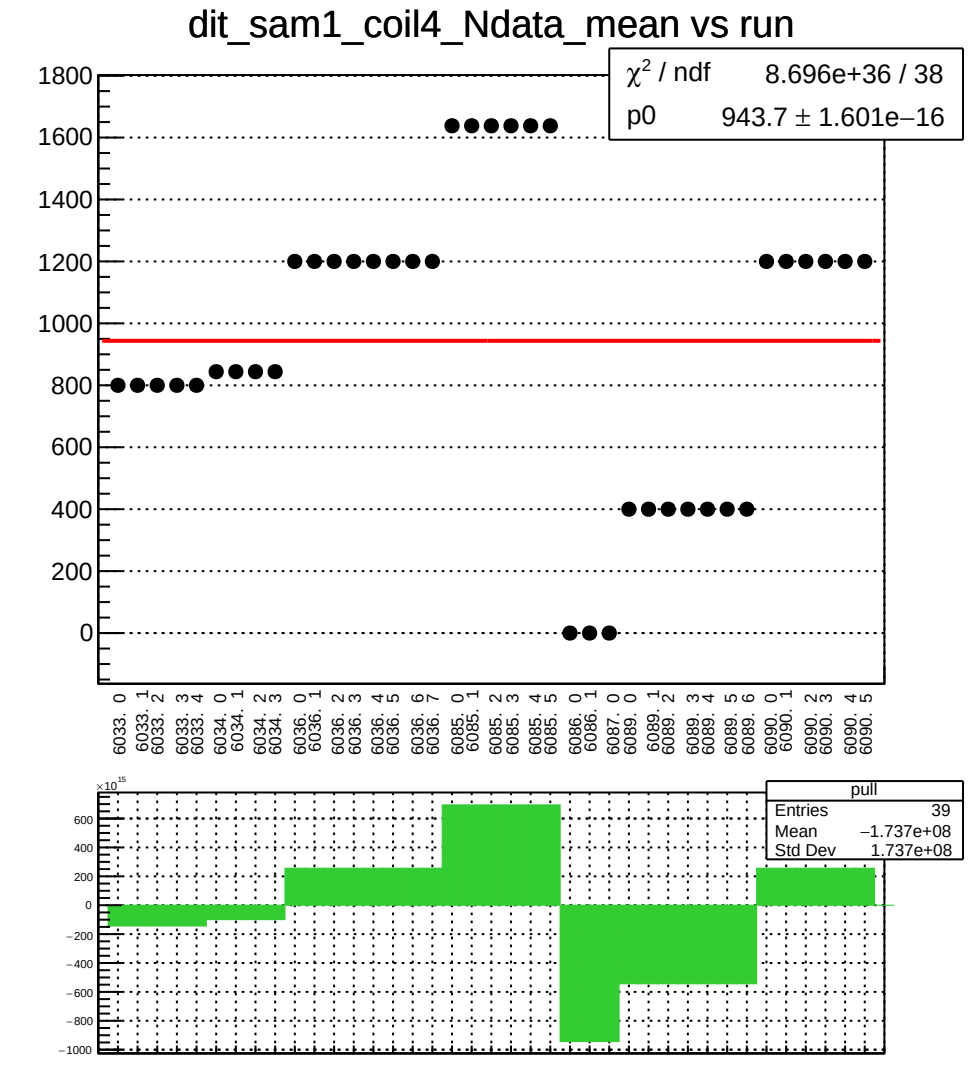

dit_atr2_coil4_mean vs run
χ² / ndf inf / 38
p0 2.74e+04 ± 1.601e−16
35000
30000
25000
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
5
0
−5
−10
−15
−20
−25
pull
Entries 39
Mean −1.208e+08
Std Dev 1.208e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

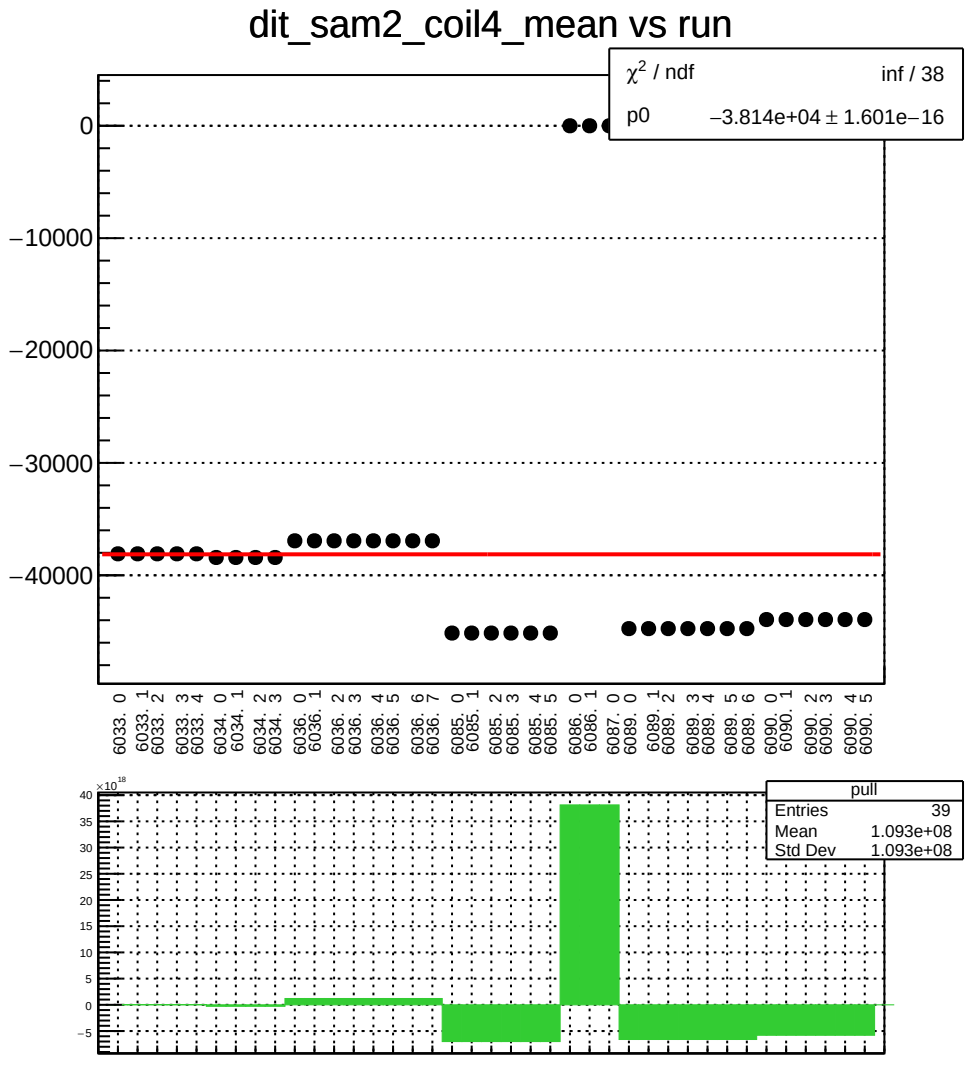

dit_atr2_coil4_err_mean vs run
χ² / ndf 2.25e+37 / 38
p0 1985 ± 1.601e−16
3000
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 39
Mean 3.354e+08
Std Dev 3.354e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

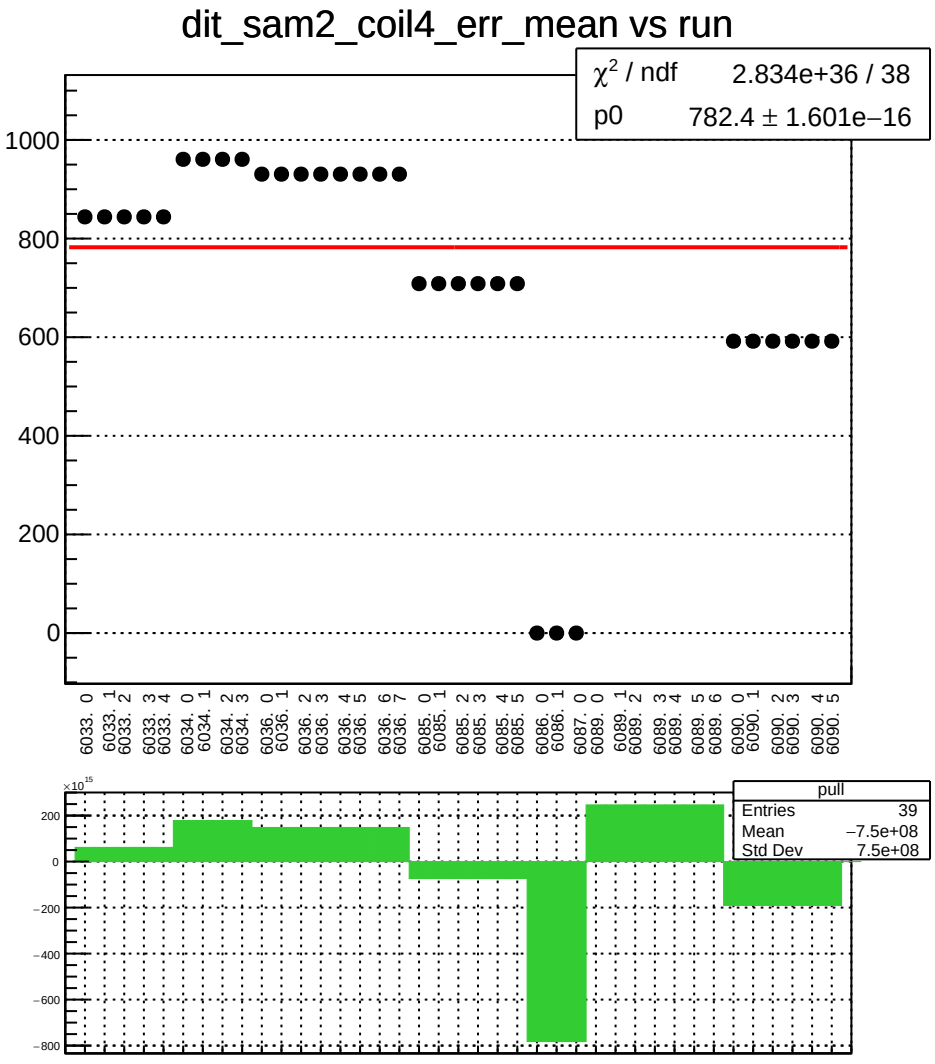

dit_atr2_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

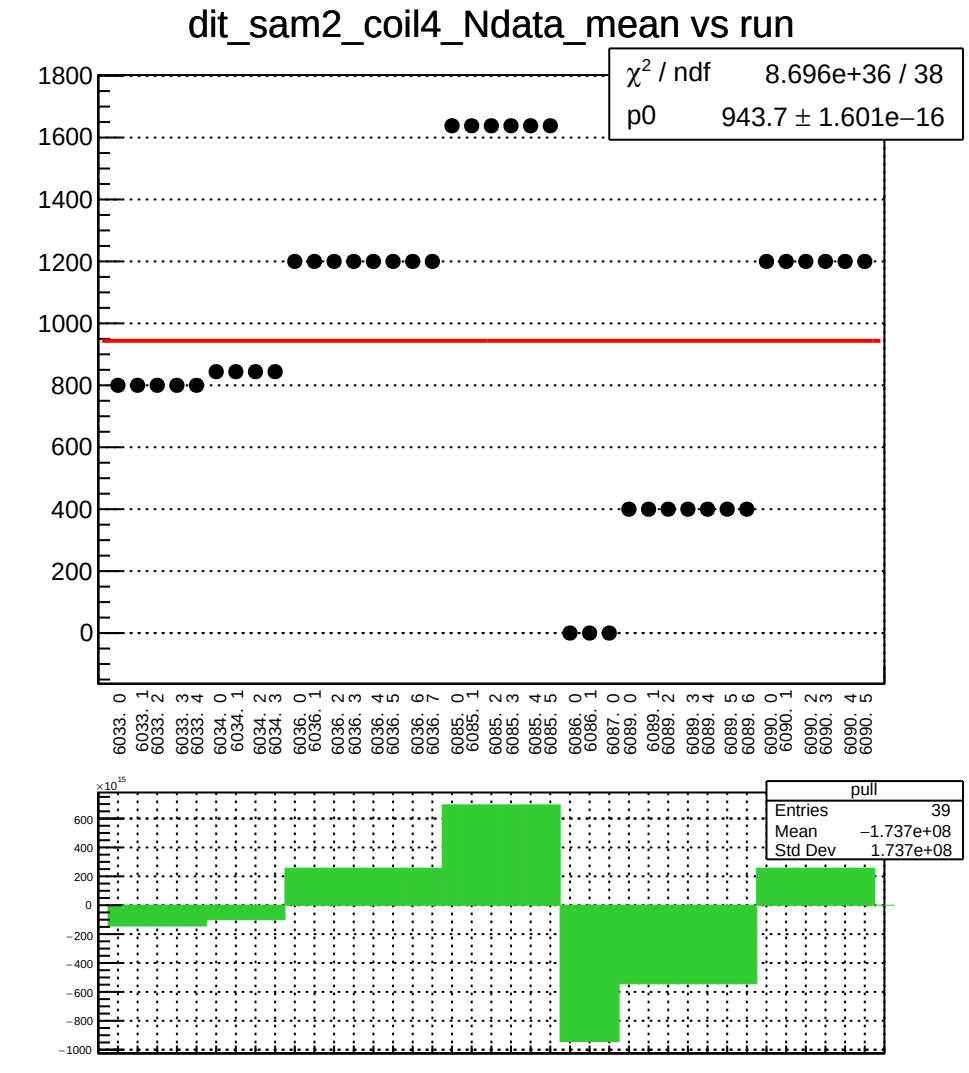

dit_sam1_coil4_mean vs run
χ² / ndf 1.896e+38 / 38
p0 −7367 ± 1.601e−16
0
−2000
−4000
−6000
−8000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
7000
6000
5000
4000
3000
2000
1000
0
−1000
pull
Entries 39
Mean 1.856e+08
Std Dev 1.856e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

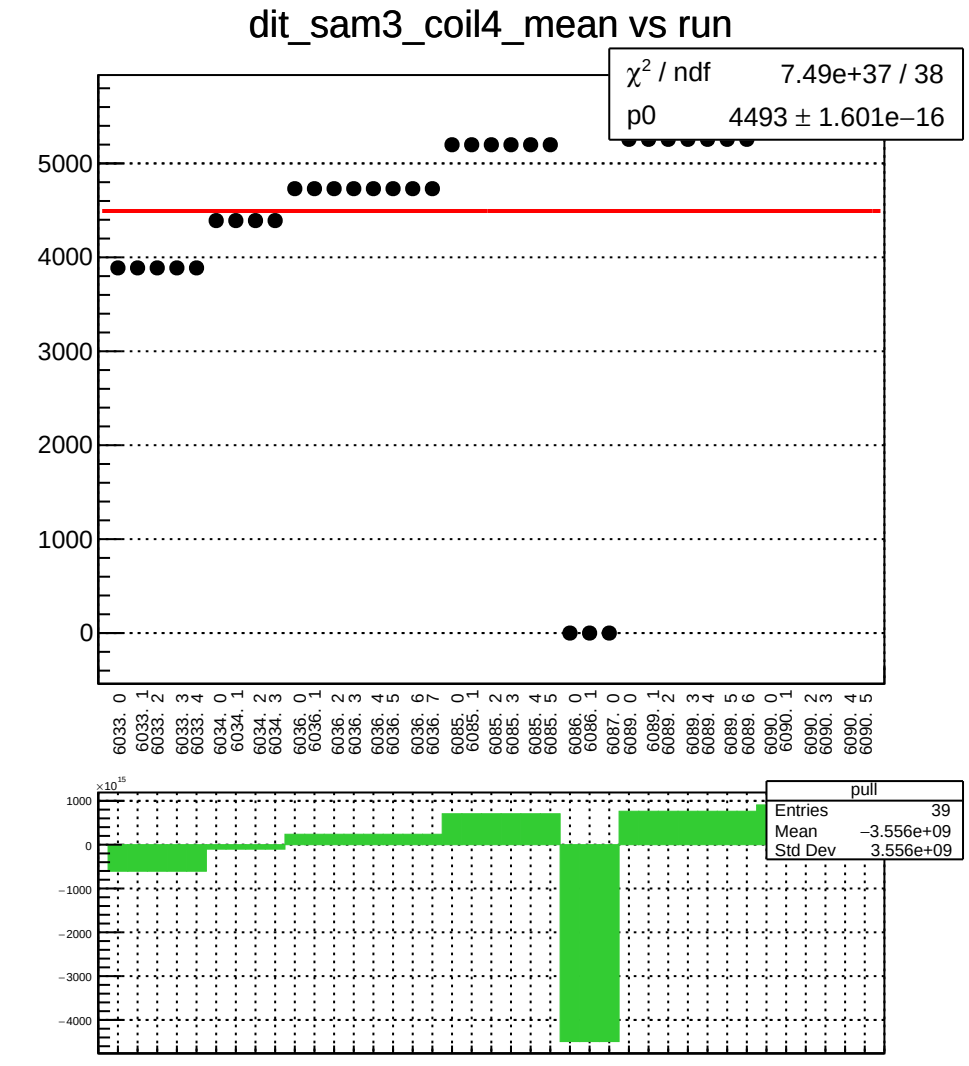

dit_sam1_coil4_err_mean vs run
χ² / ndf 4.139e+34 / 38
p0 92.49 ± 1.601e−16
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
40
20
0
−20
−40
−60
−80
pull
Entries 39
Mean 1.326e+08
Std Dev 1.326e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

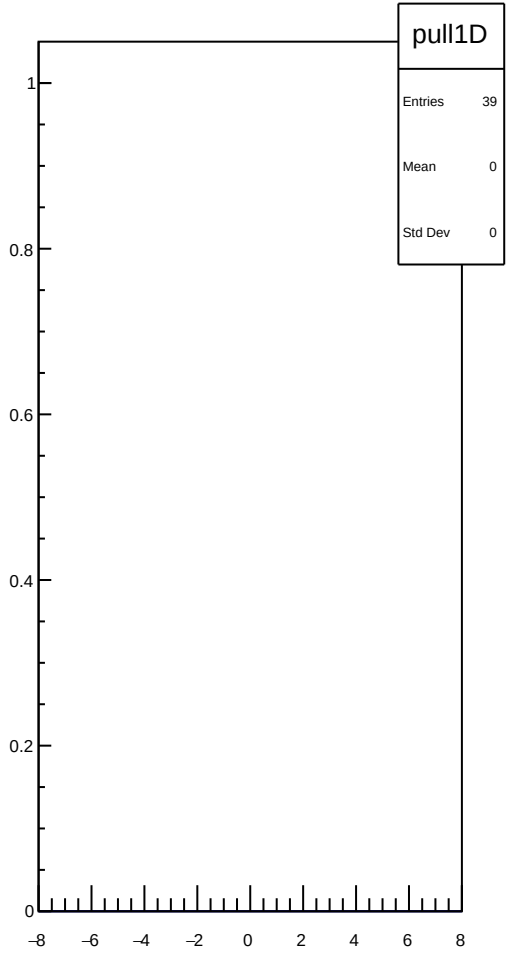

dit_sam1_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

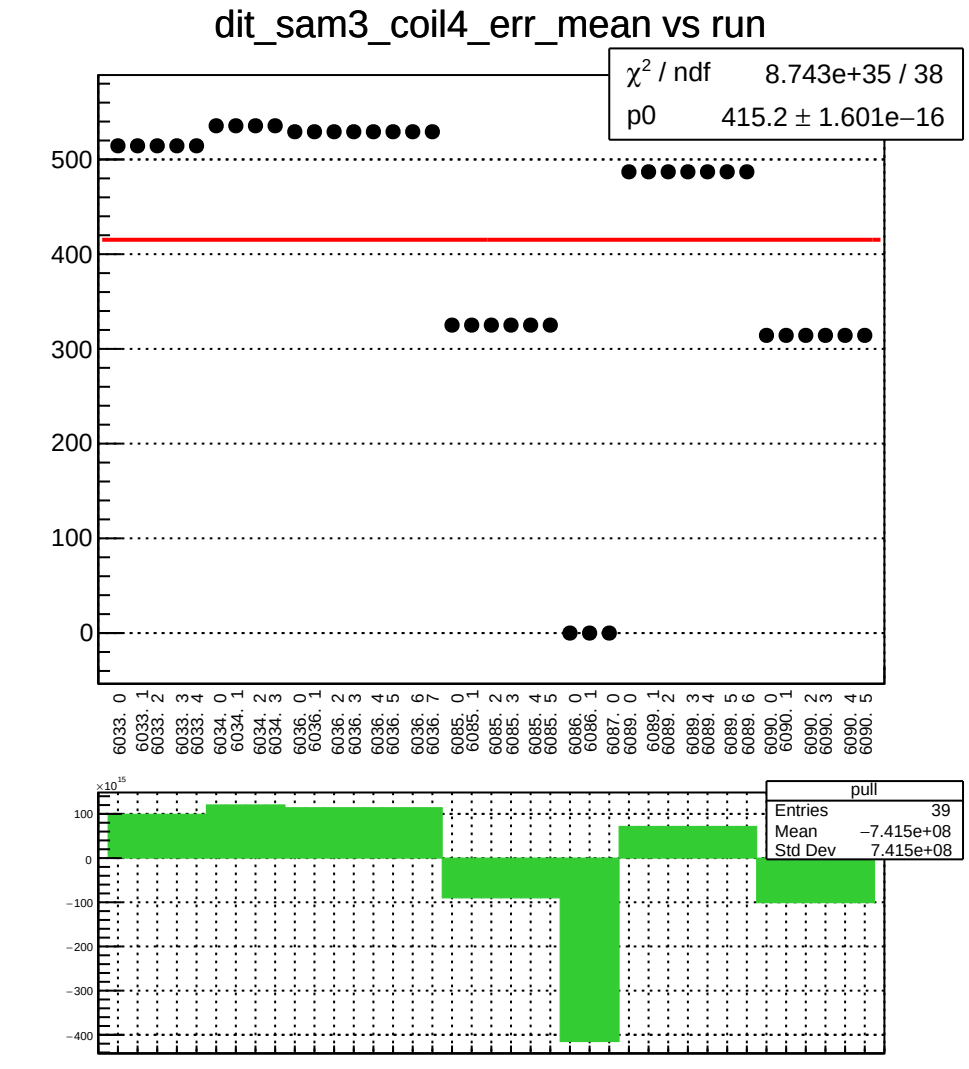

dit_sam2_coil4_mean vs run
χ² / ndf inf / 38
p0 −3.814e+04 ± 1.601e−16
0
−10000
−20000
−30000
−40000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
40
35
30
25
20
15
10
5
0
−5
pull
Entries 39
Mean 1.093e+08
Std Dev 1.093e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

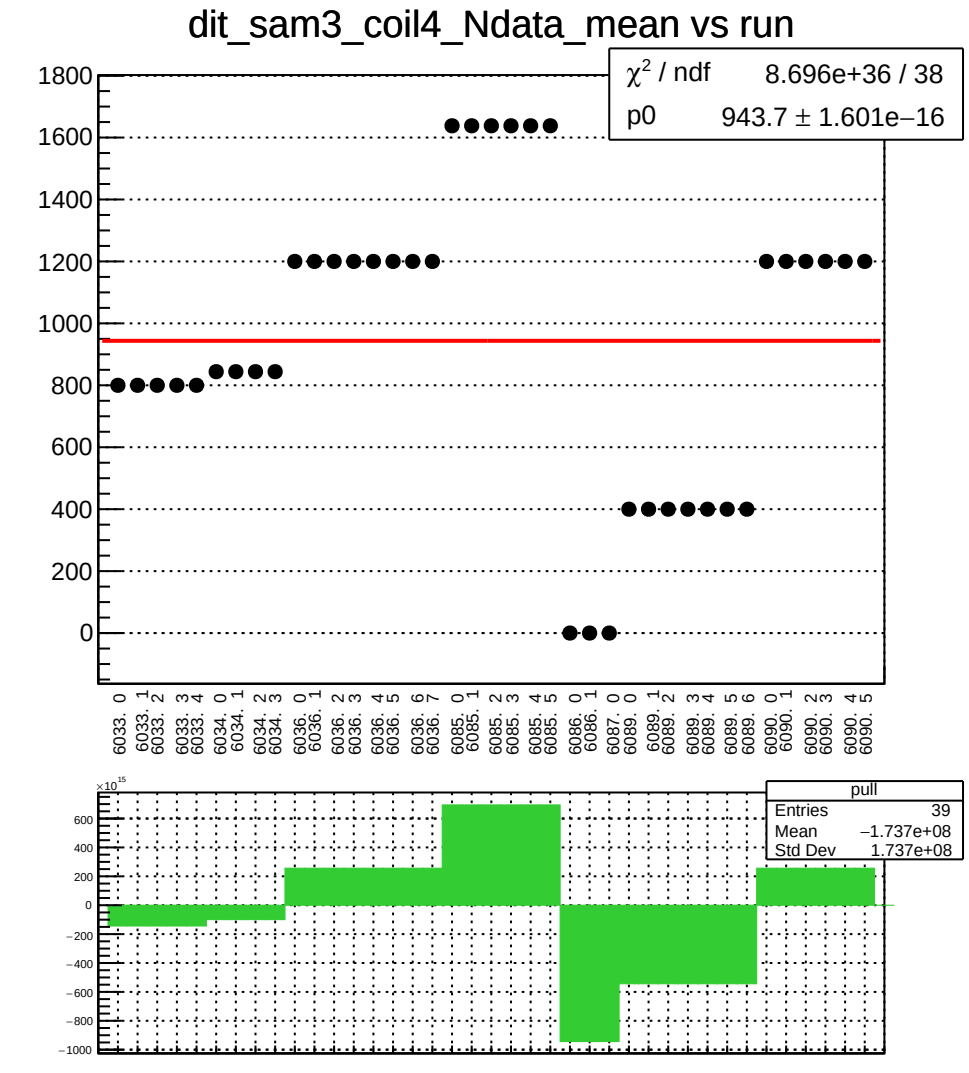

dit_sam2_coil4_err_mean vs run
χ² / ndf 2.834e+36 / 38
p0 782.4 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
pull
Entries 39
Mean −7.5e+08
Std Dev 7.5e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

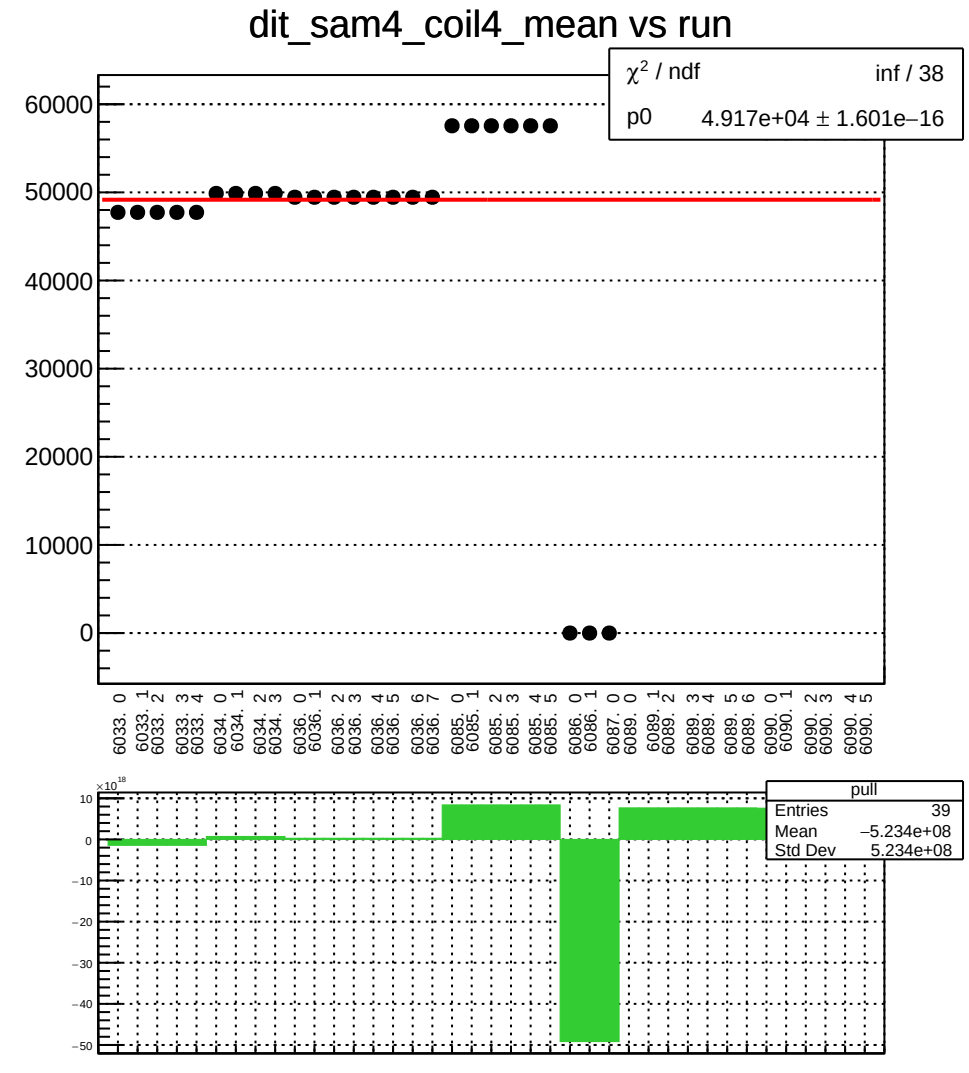

dit_sam2_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

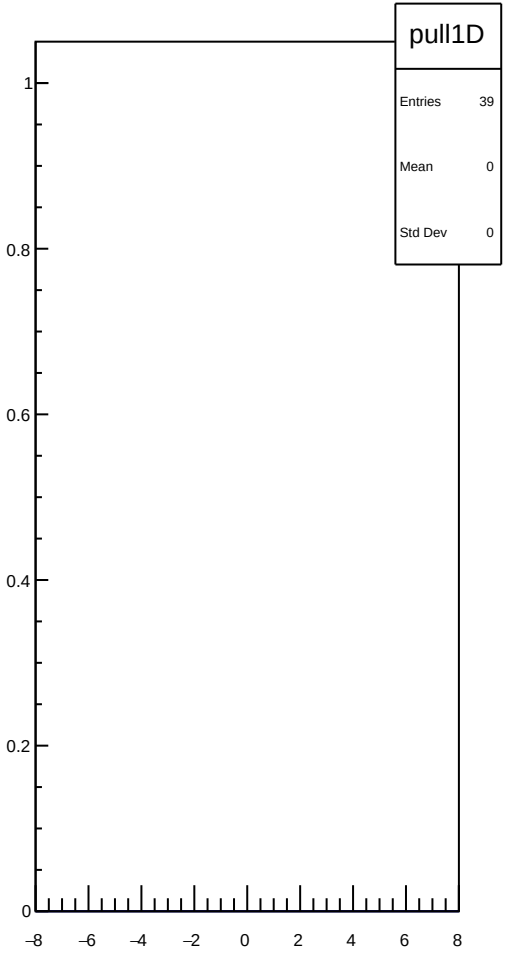

dit_sam3_coil4_mean vs run
χ² / ndf 7.49e+37 / 38
p0 4493 ± 1.601e−16
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean −3.556e+09
Std Dev 3.556e+09


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


dit_sam3_coil4_err_mean vs run
χ² / ndf 8.743e+35 / 38
p0 415.2 ± 1.601e−16
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
pull
Entries 39
Mean −7.415e+08
Std Dev 7.415e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam4_coil4_mean vs run
χ² / ndf inf / 38
p0 4.917e+04 ± 1.601e−16
60000
50000
40000
30000
20000
10000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
10
0
−10
−20
−30
−40
−50
pull
Entries 39
Mean −5.234e+08
Std Dev 5.234e+08


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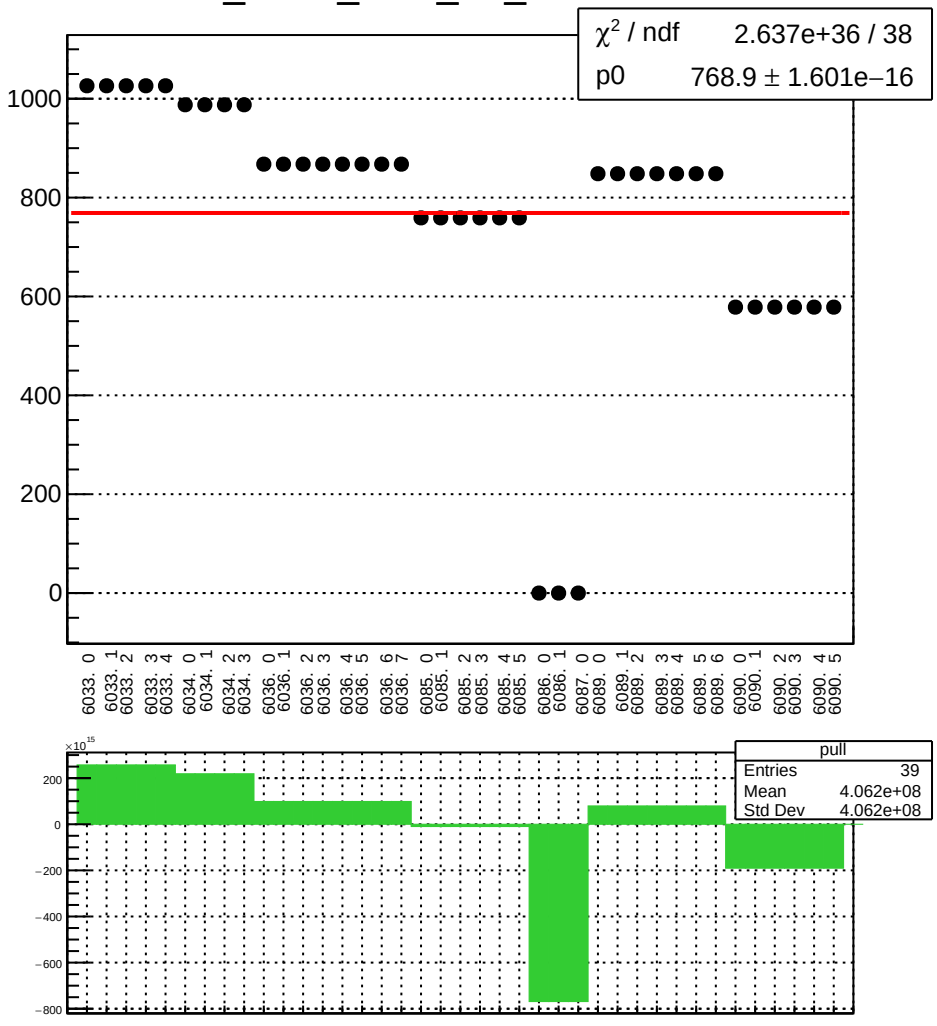
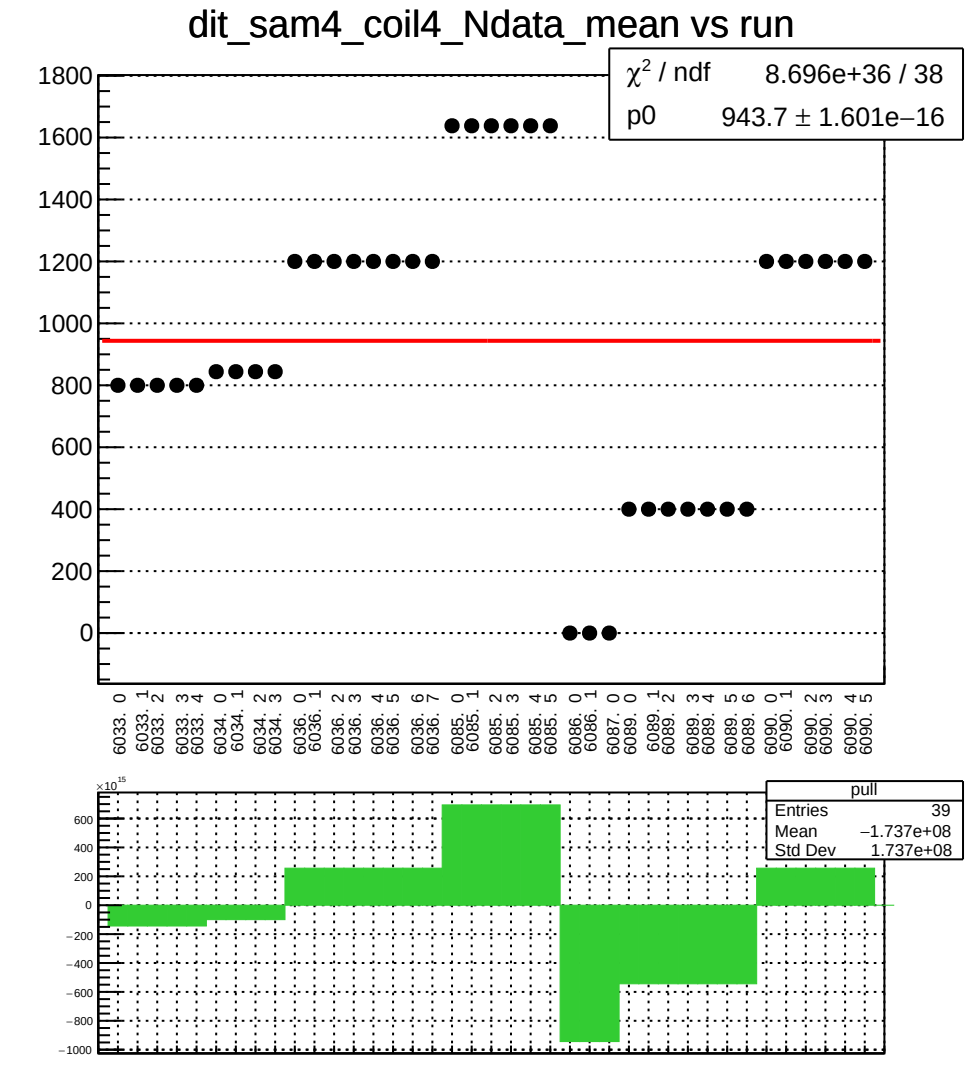
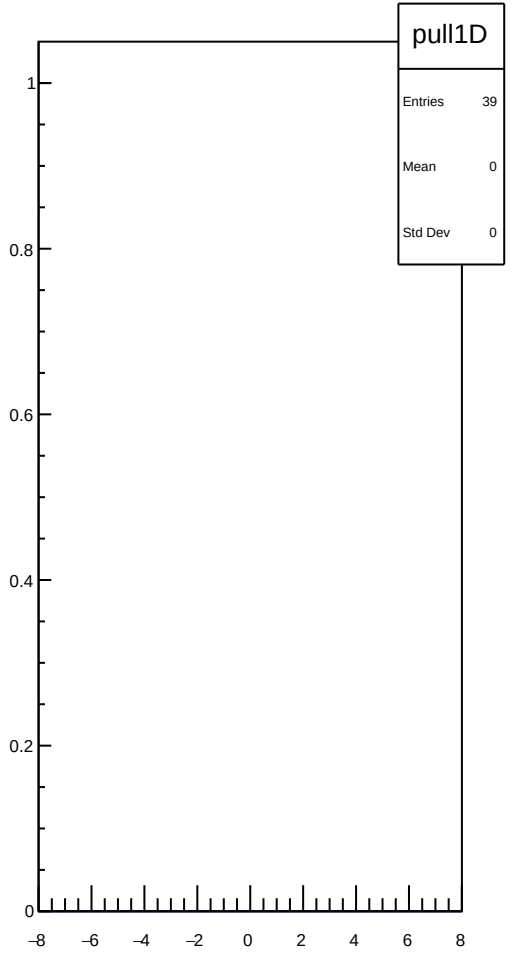
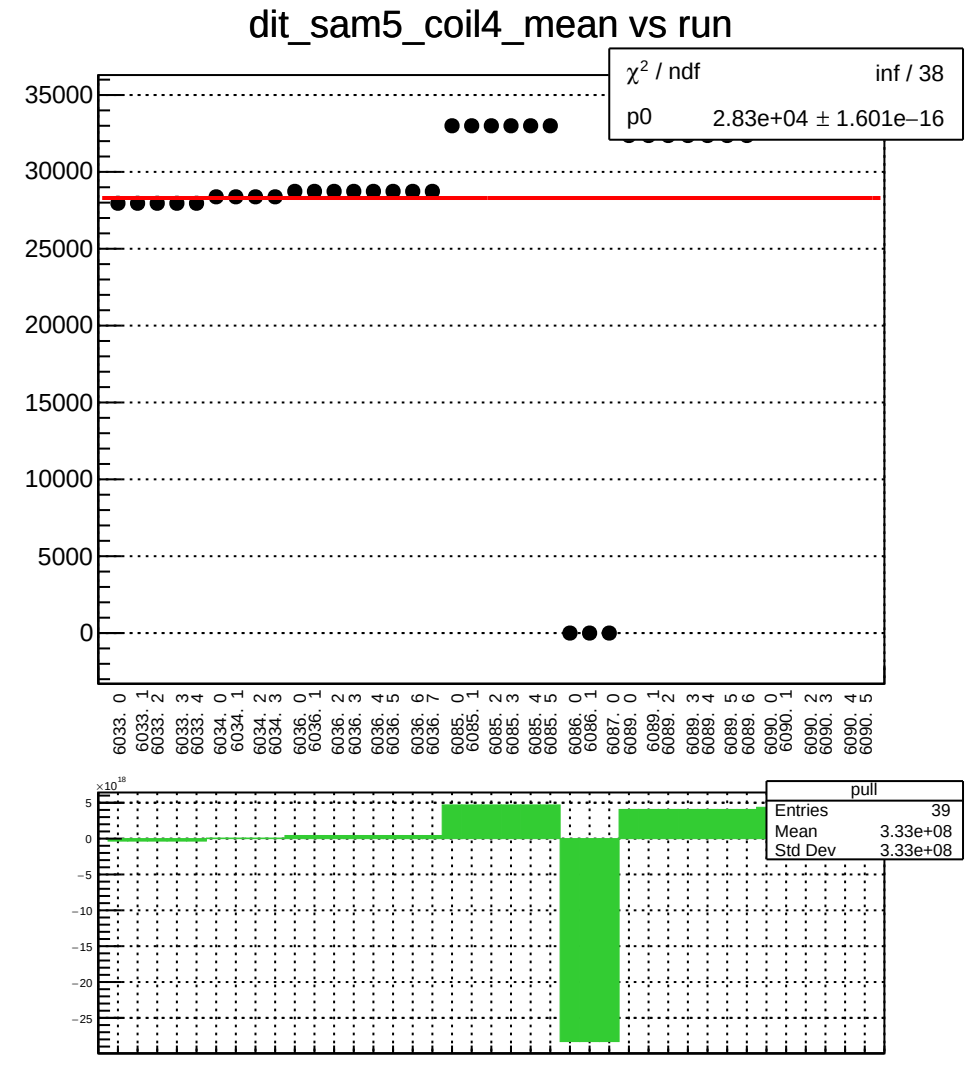
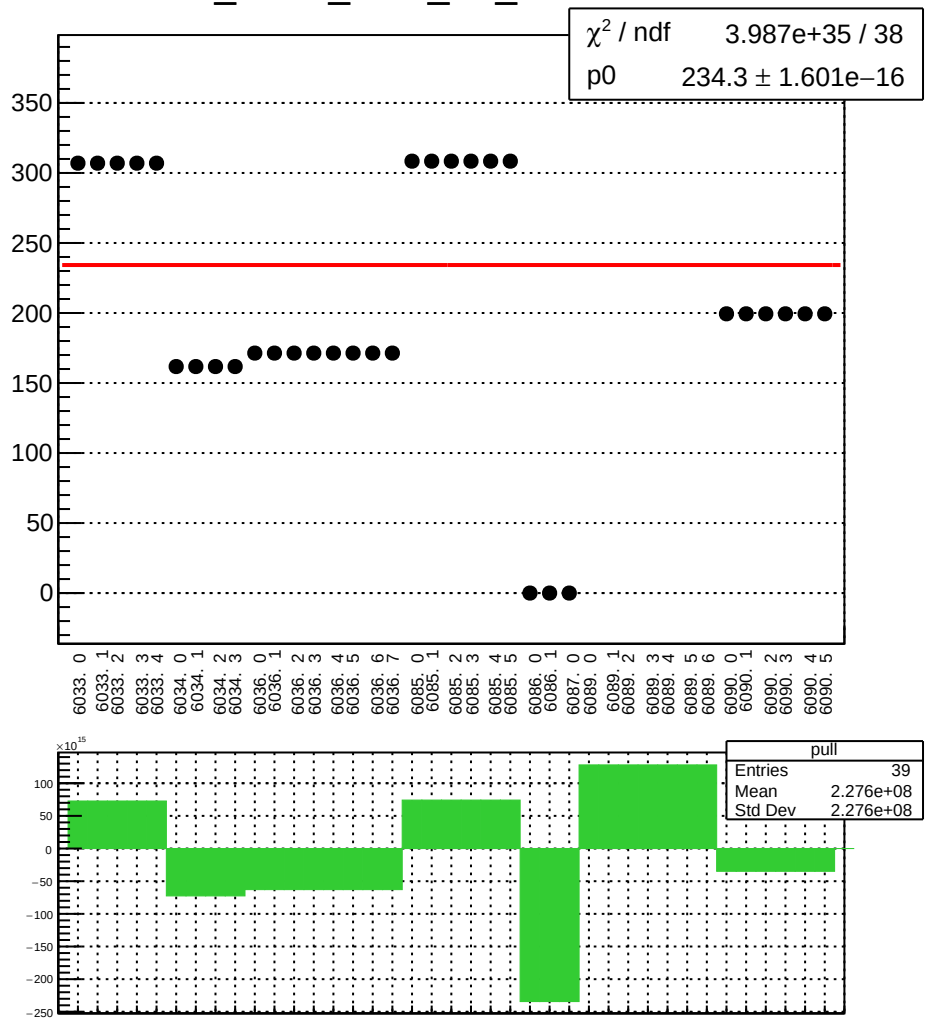
0
2
4
6
8

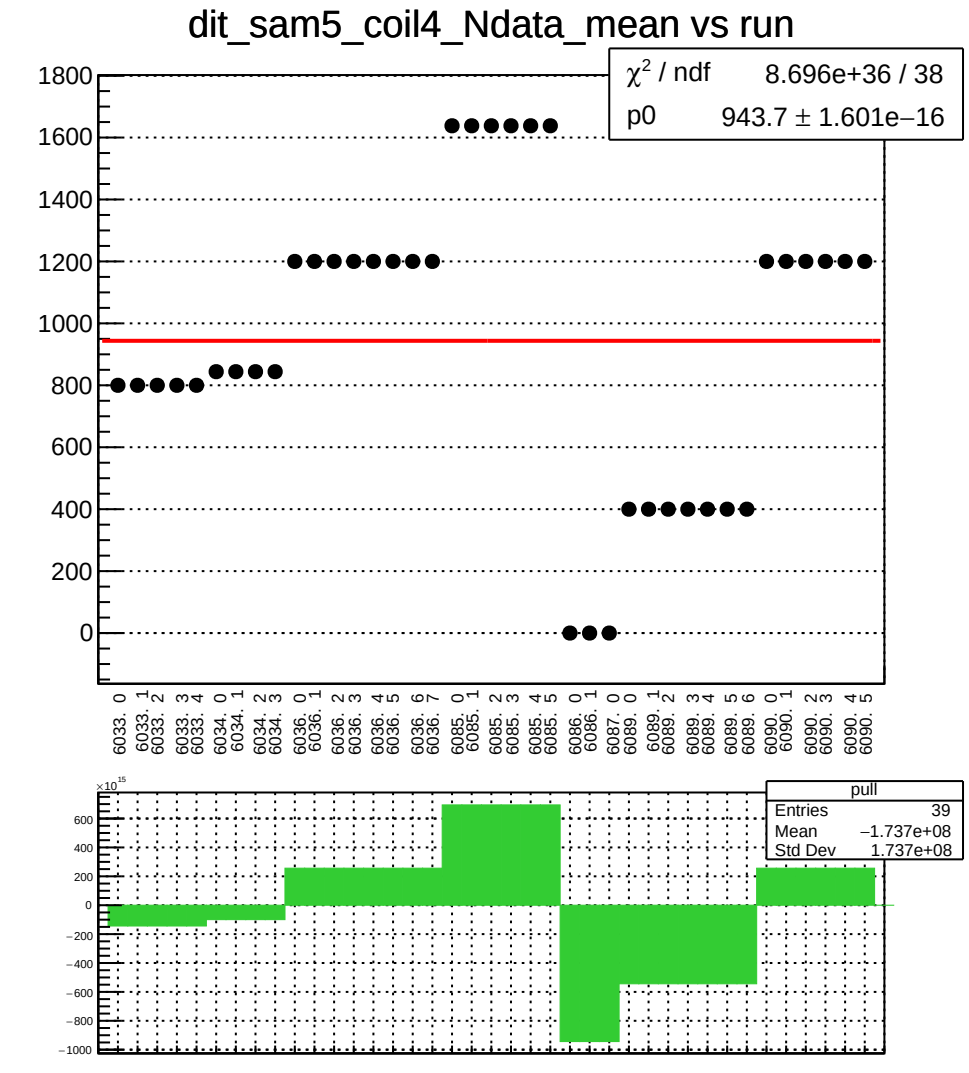

dit_sam4_coil4_err_mean vs run
χ² / ndf 2.637e+36 / 38
p0 768.9 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
0
−200
−400
−600
−800
pull
Entries 39
Mean 4.062e+08
Std Dev 4.062e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

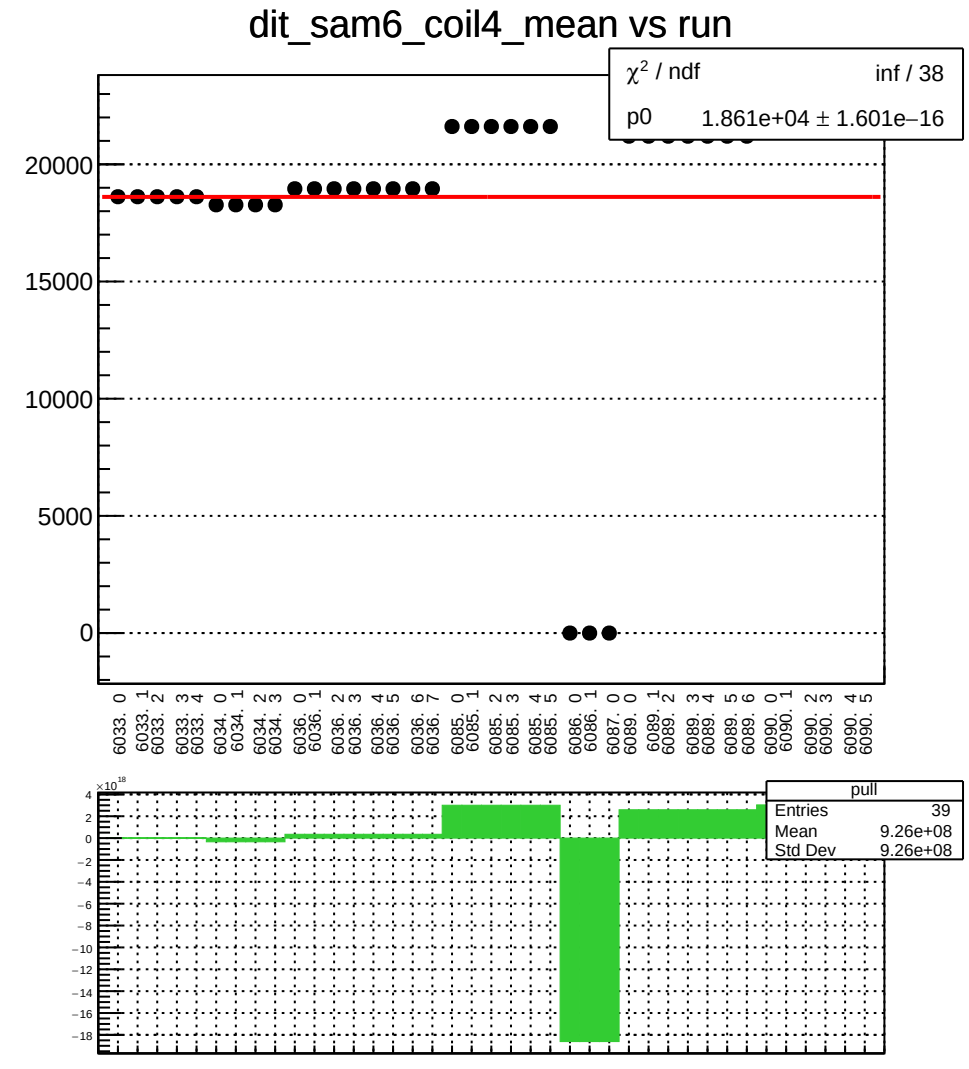

dit_sam4_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
×10¹⁵

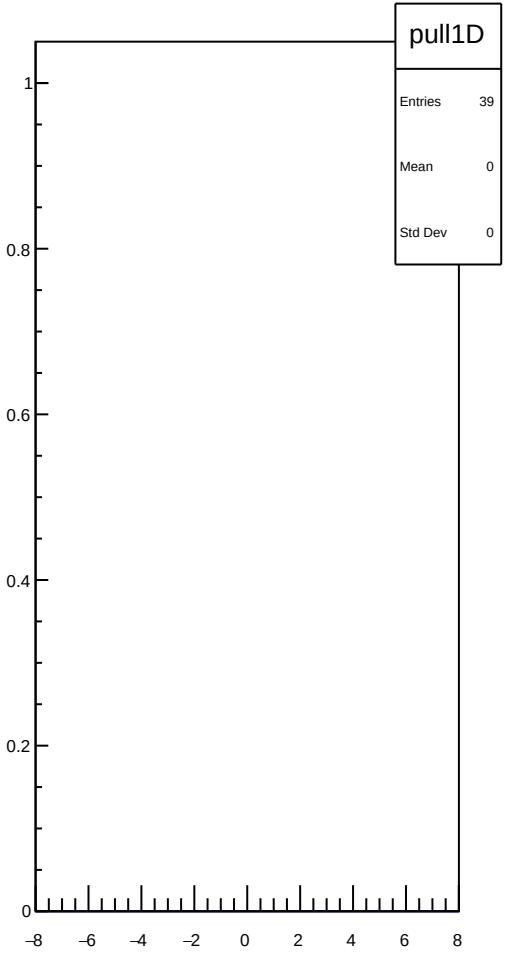

pull1D
Entries 39
Mean 0
Std Dev 0

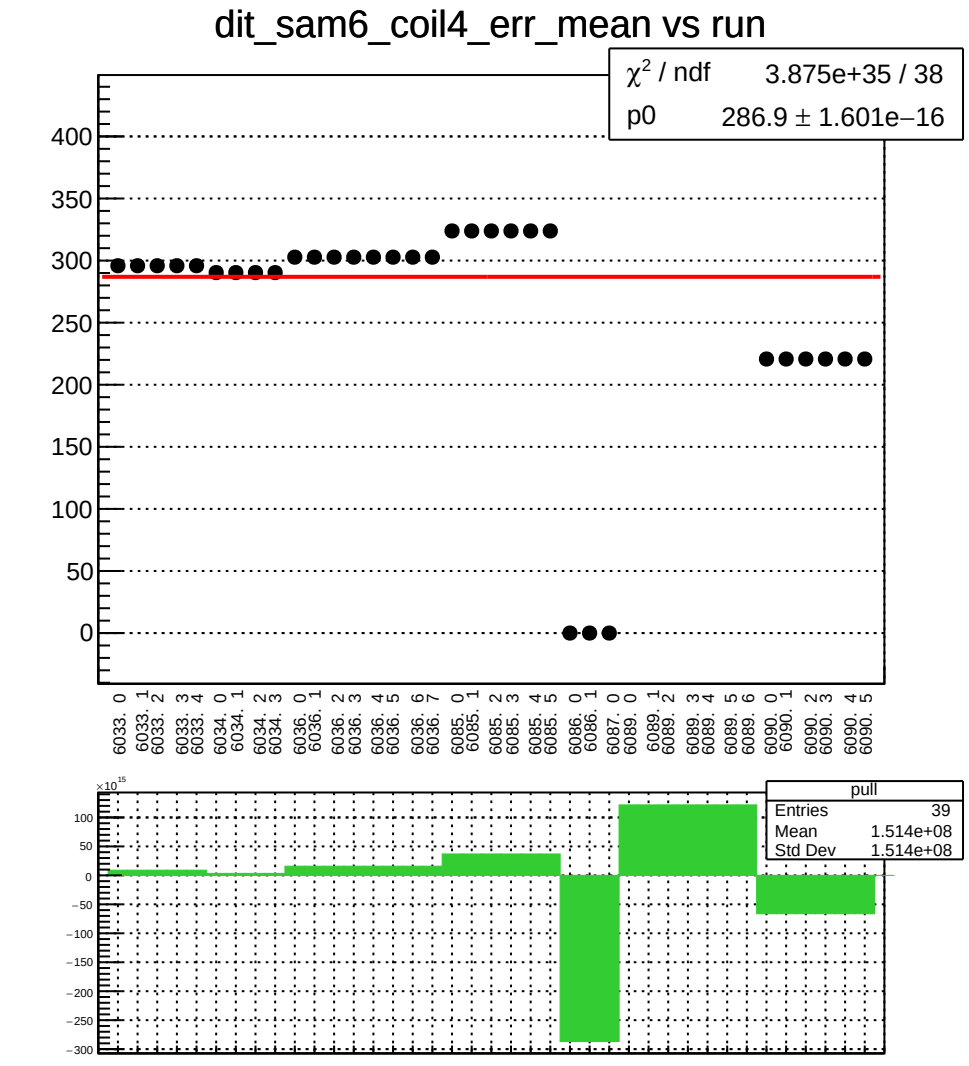

dit_sam5_coil4_mean vs run
χ² / ndf inf / 38
p0 2.83e+04 ± 1.601e−16
35000
30000
25000
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
5
0
−5
−10
−15
−20
−25
pull
Entries 39
Mean 3.33e+08
Std Dev 3.33e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

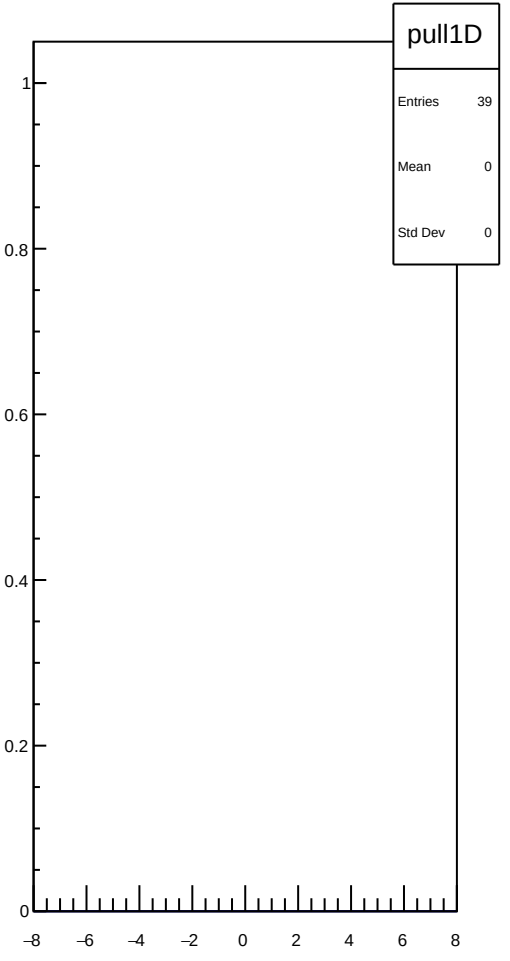

dit_sam5_coil4_err_mean vs run
χ² / ndf 3.987e+35 / 38
p0 234.3 ± 1.601e−16
350
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
50
0
−50
−100
−150
−200
−250
pull
Entries 39
Mean 2.276e+08
Std Dev 2.276e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

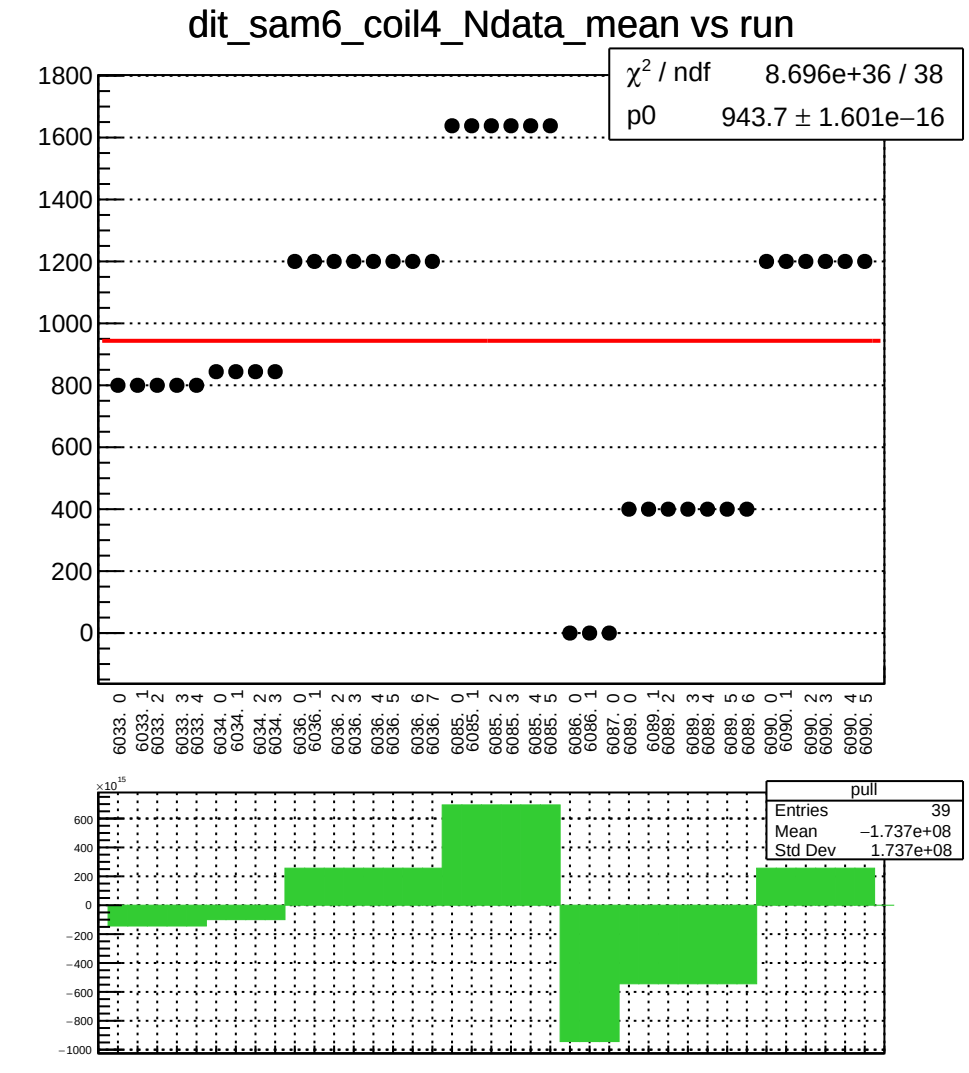

dit_sam5_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

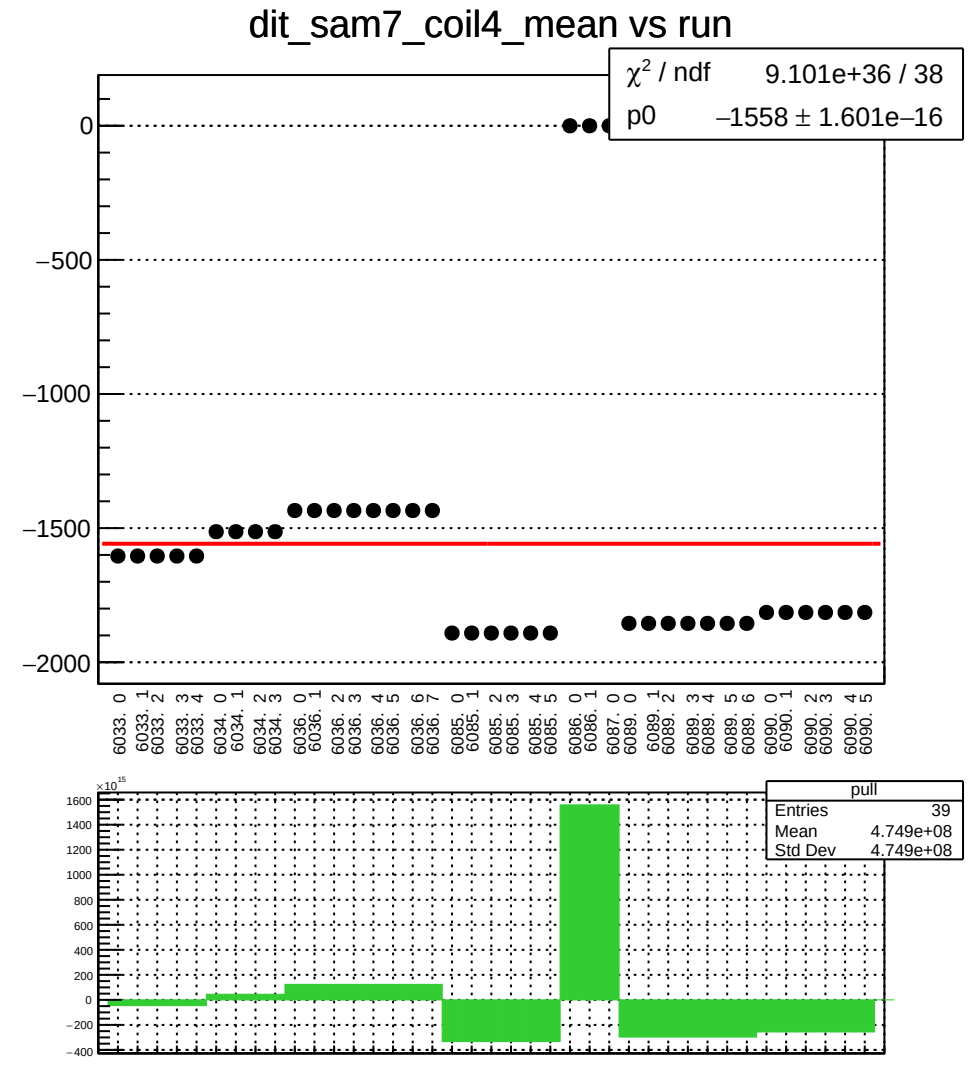

dit_sam6_coil4_mean vs run
χ² / ndf inf / 38
p0 1.861e+04 ± 1.601e−16
20000
15000
10000
5000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁸
pull
Entries 39
Mean 9.26e+08
Std Dev 9.26e+08

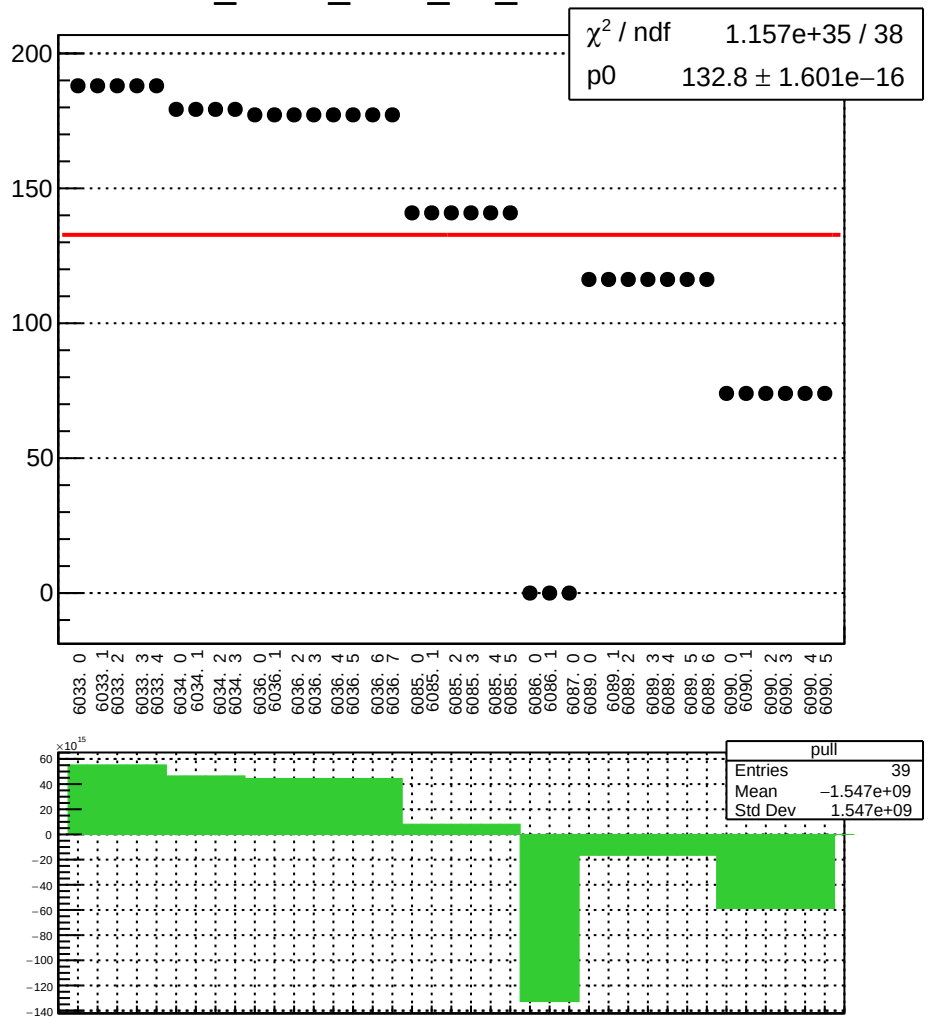

pull1D
Entries 39
Mean 0
Std Dev 0

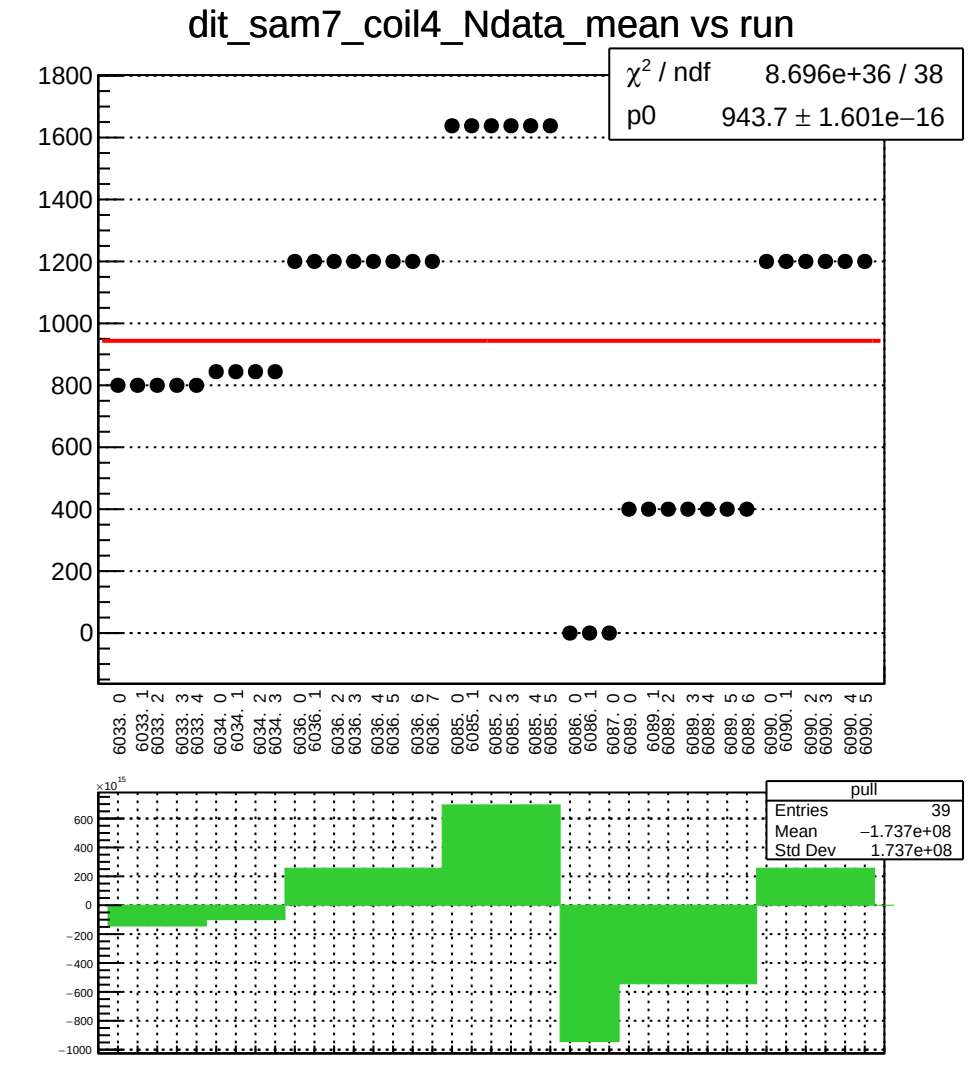

dit_sam6_coil4_err_mean vs run
χ² / ndf 3.875e+35 / 38
p0 286.9 ± 1.601e−16
400
350
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 39
Mean 1.514e+08
Std Dev 1.514e+08

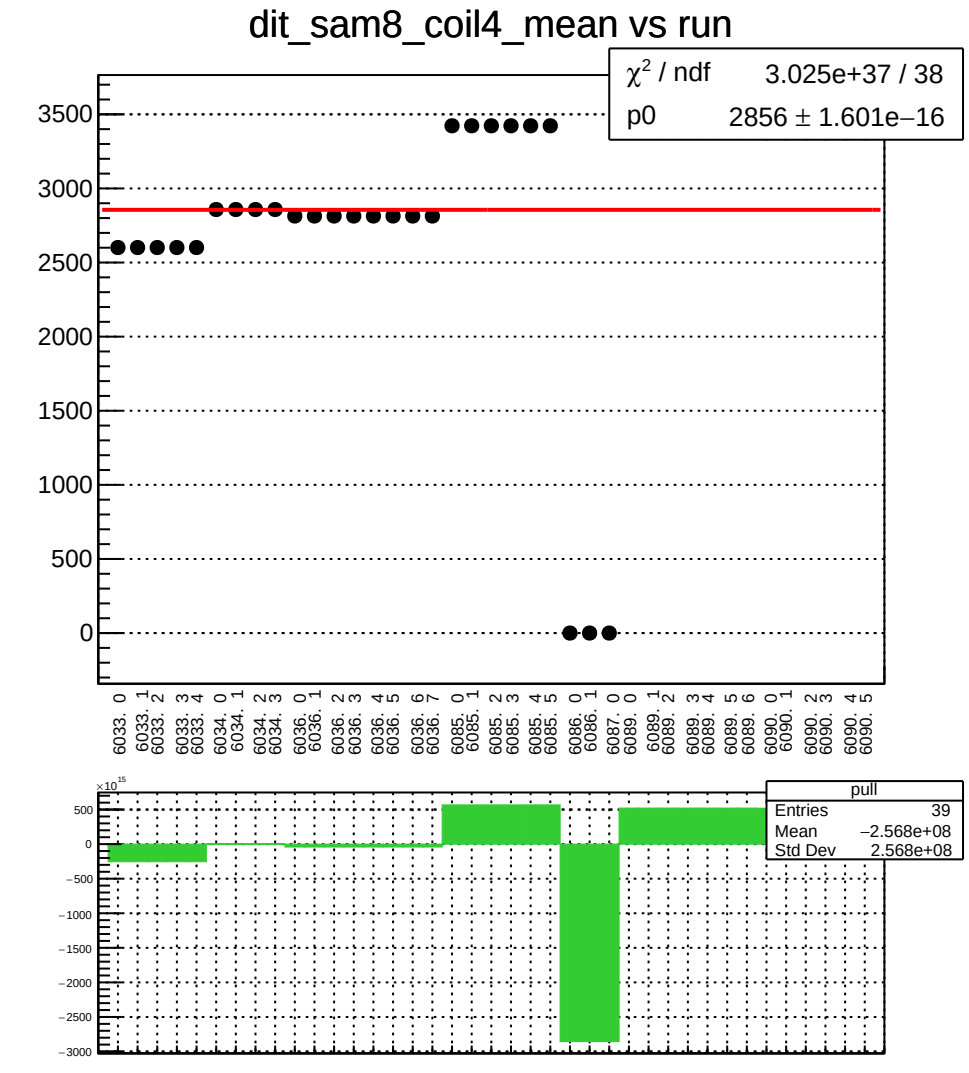

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

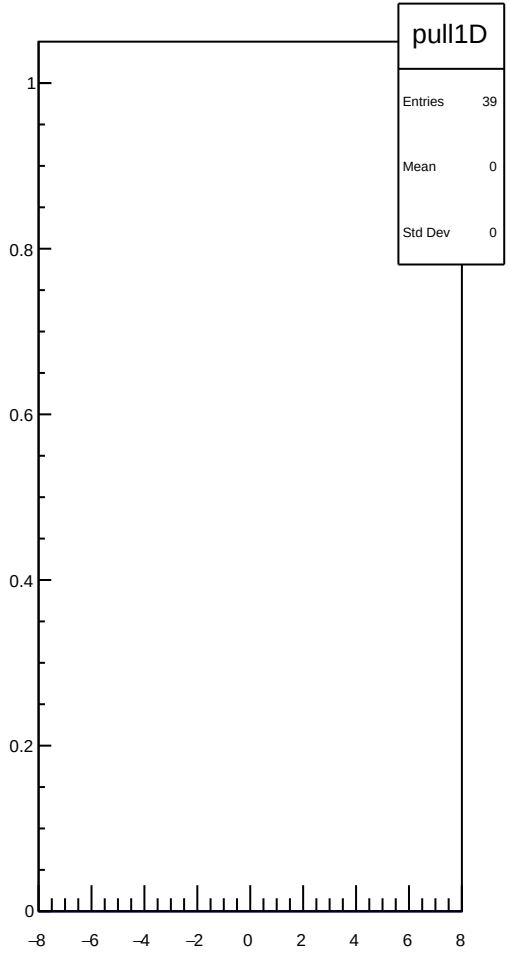

dit_sam6_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_coil4_mean vs run
χ² / ndf 9.101e+36 / 38
p0 −1558 ± 1.601e−16
0
−500
−1000
−1500
−2000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
1600
1400
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 39
Mean 4.749e+08
Std Dev 4.749e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_coil4_err_mean vs run
χ² / ndf 1.157e+35 / 38
p0 132.8 ± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull
Entries 39
Mean −1.547e+09
Std Dev 1.547e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_coil4_mean vs run
χ² / ndf 3.025e+37 / 38
p0 2856 ± 1.601e−16
3500
3000
2500
2000
1500
1000
500
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull
Entries 39
Mean −2.568e+08
Std Dev 2.568e+08


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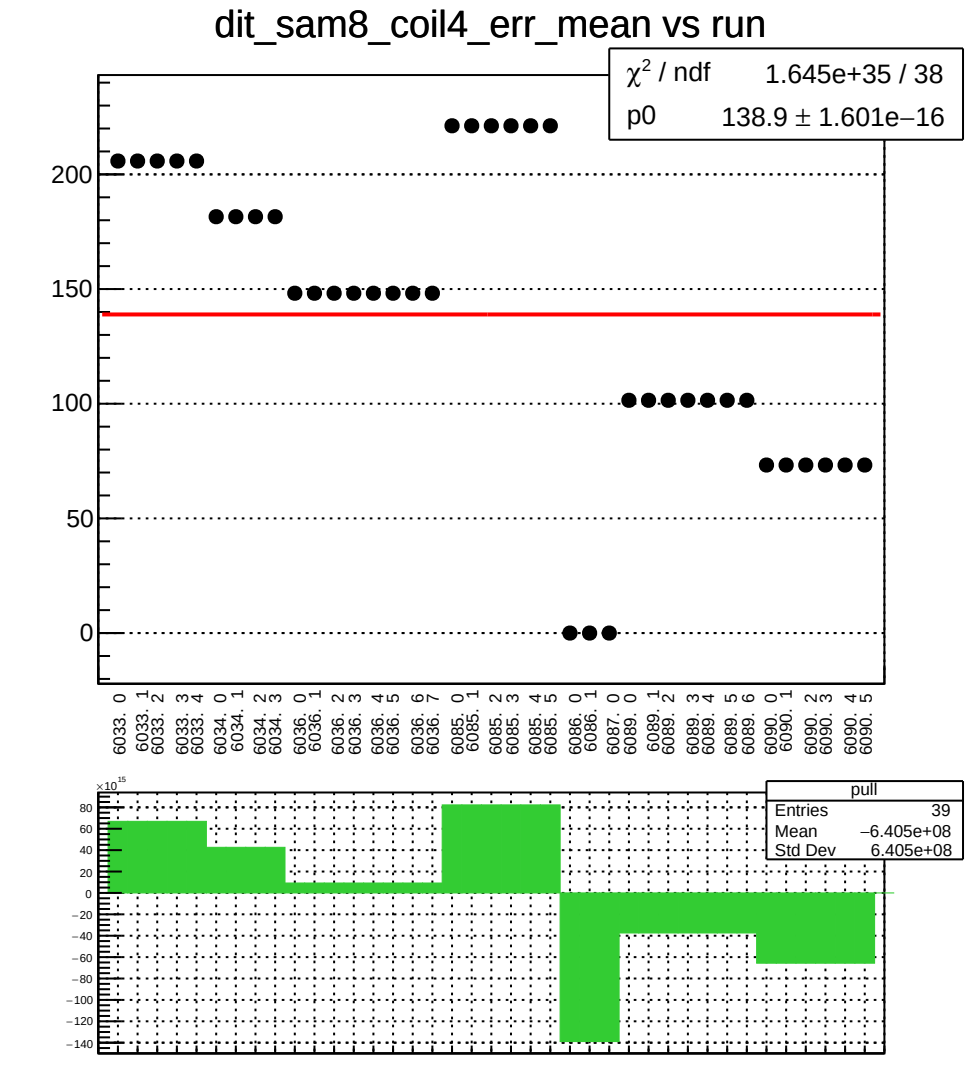
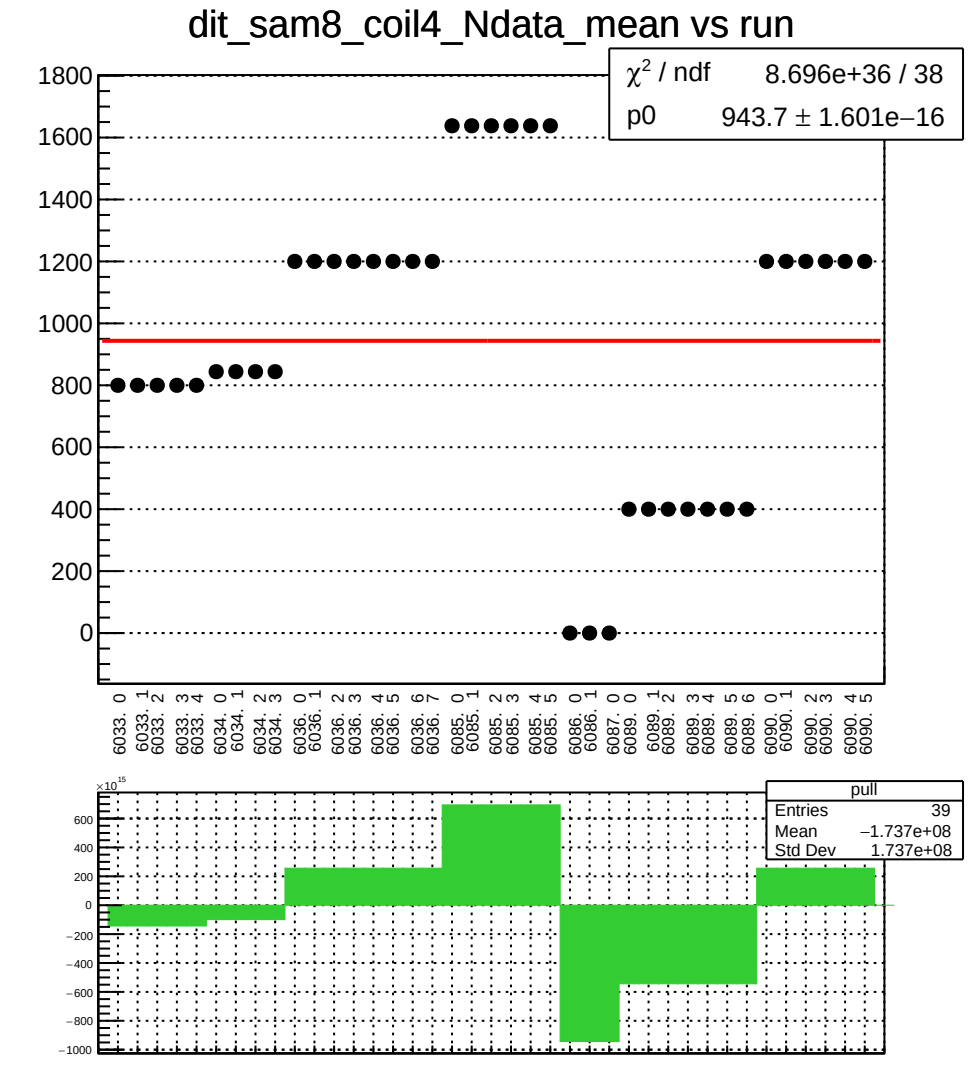
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_coil4_err_mean vs run
χ² / ndf 1.645e+35 / 38
p0 138.9 ± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull
Entries 39
Mean −6.405e+08
Std Dev 6.405e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_coil4_Ndata_mean vs run
χ² / ndf 8.696e+36 / 38
p0 943.7 ± 1.601e−16
1800
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
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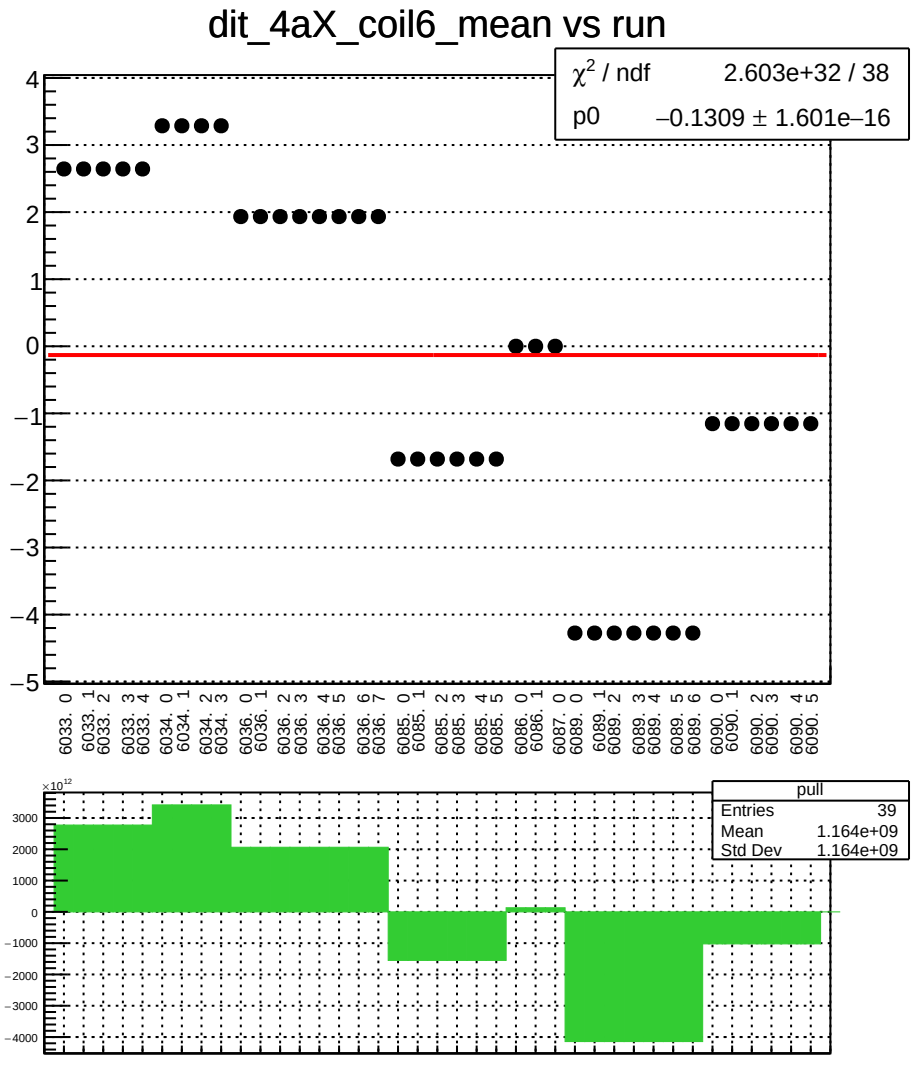
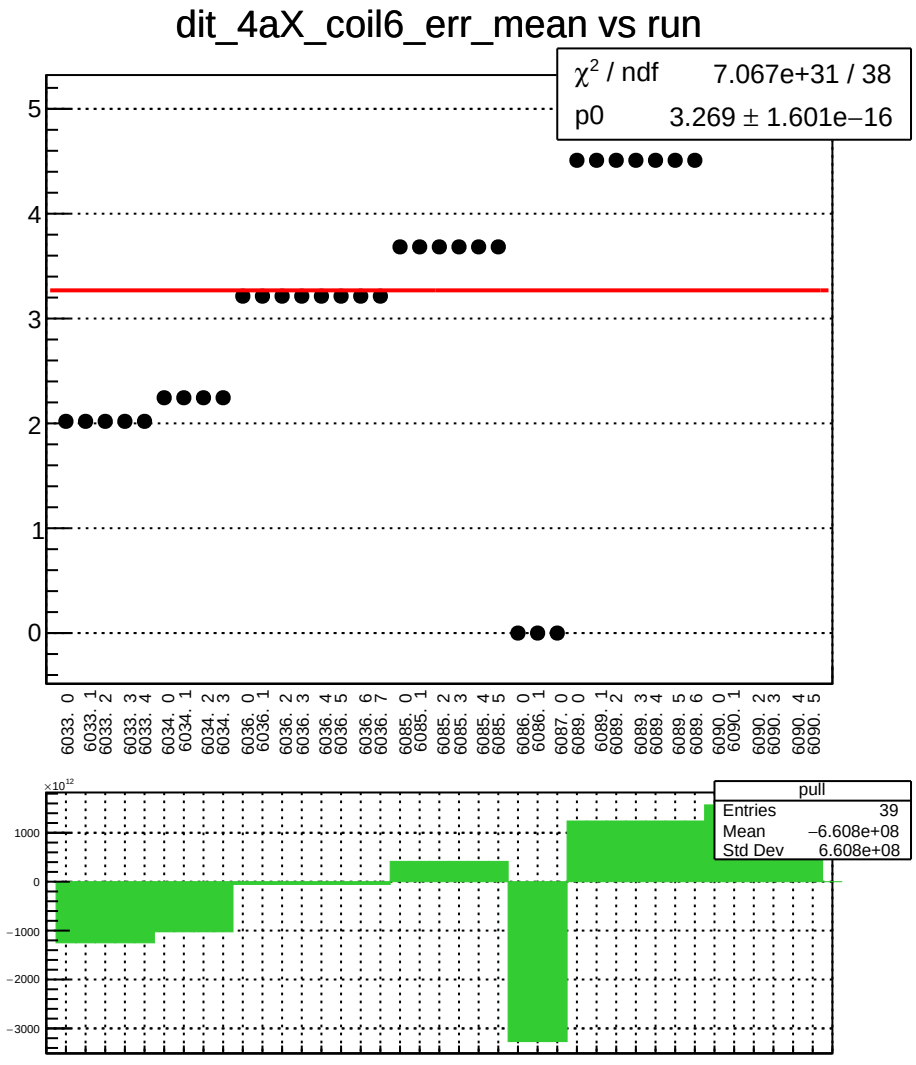
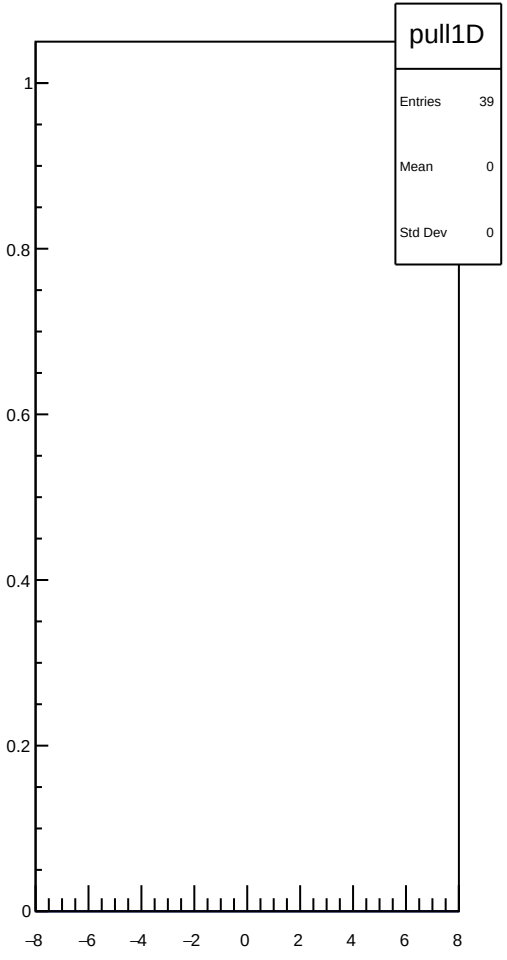
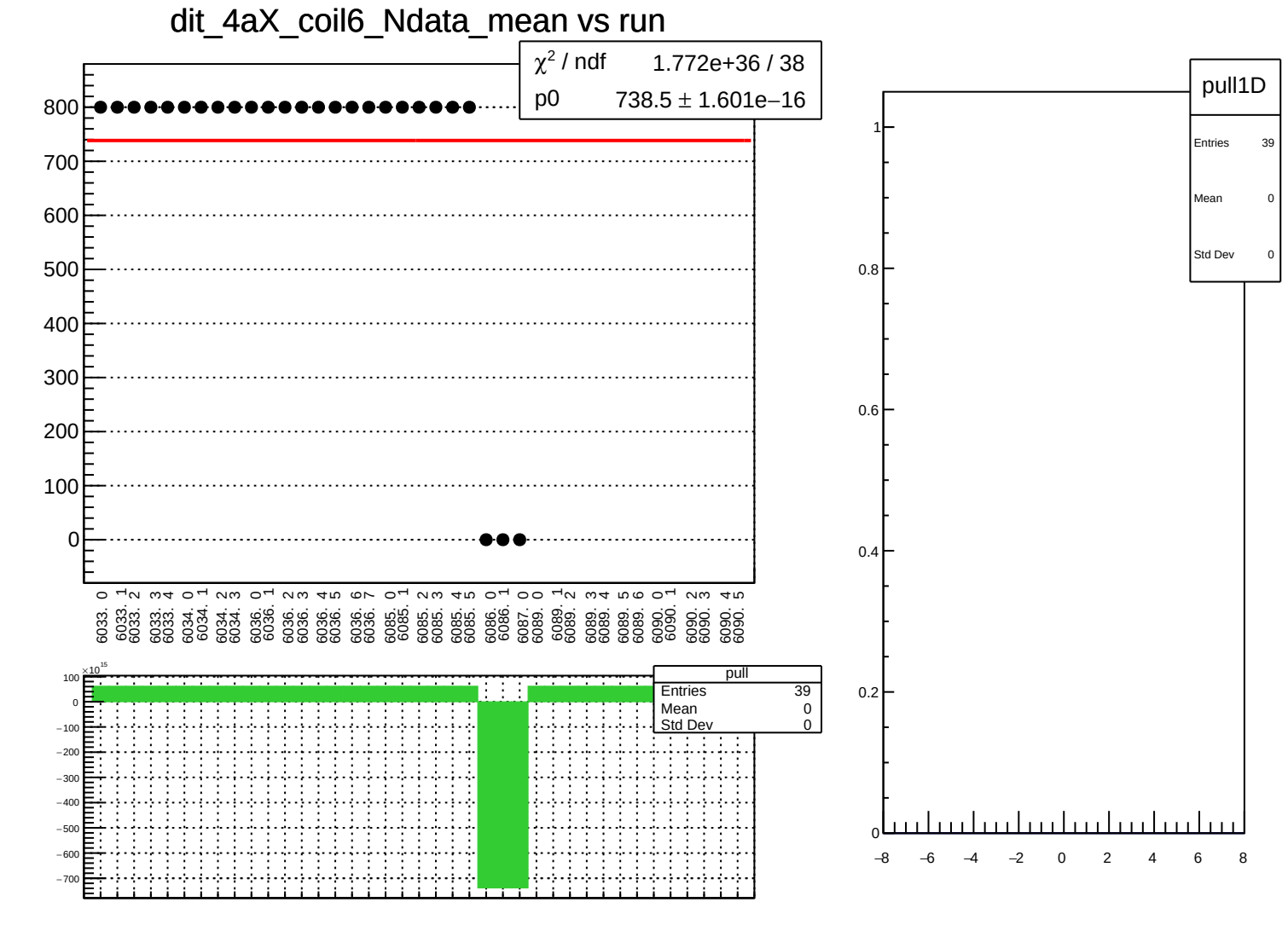
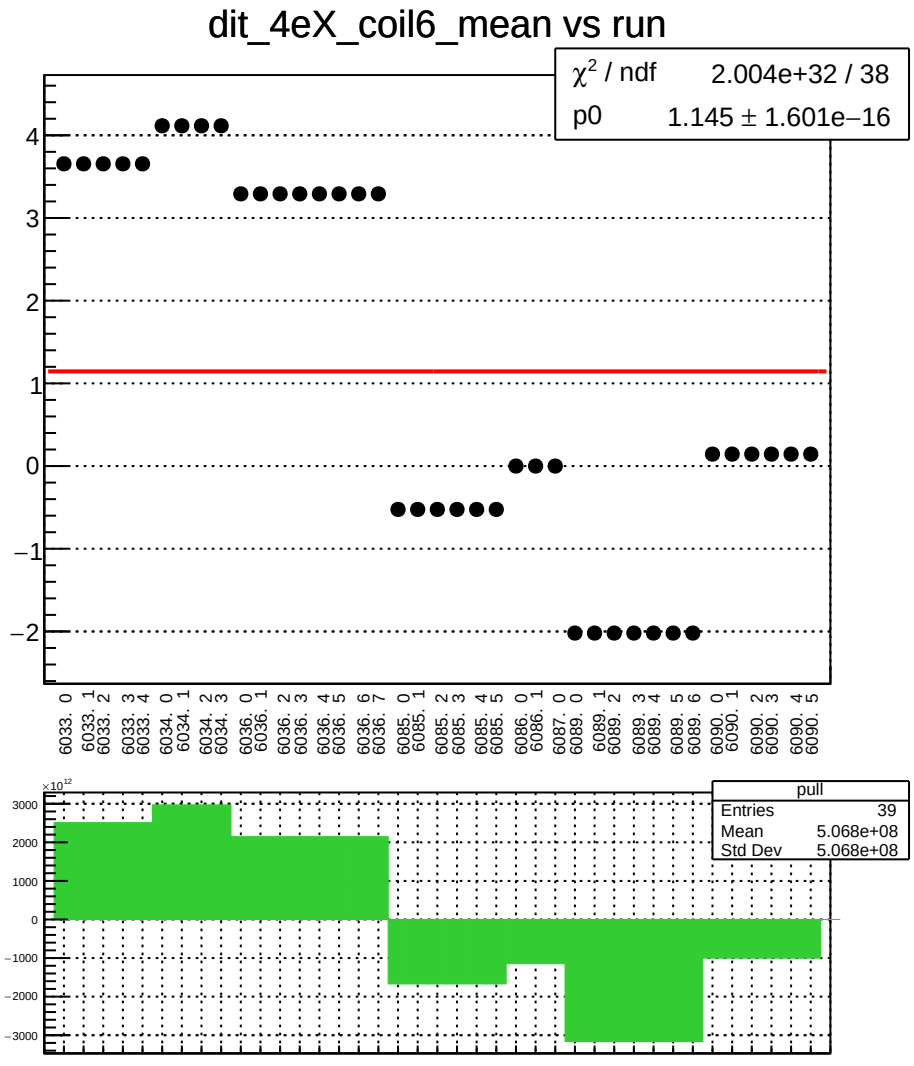
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.737e+08
Std Dev 1.737e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

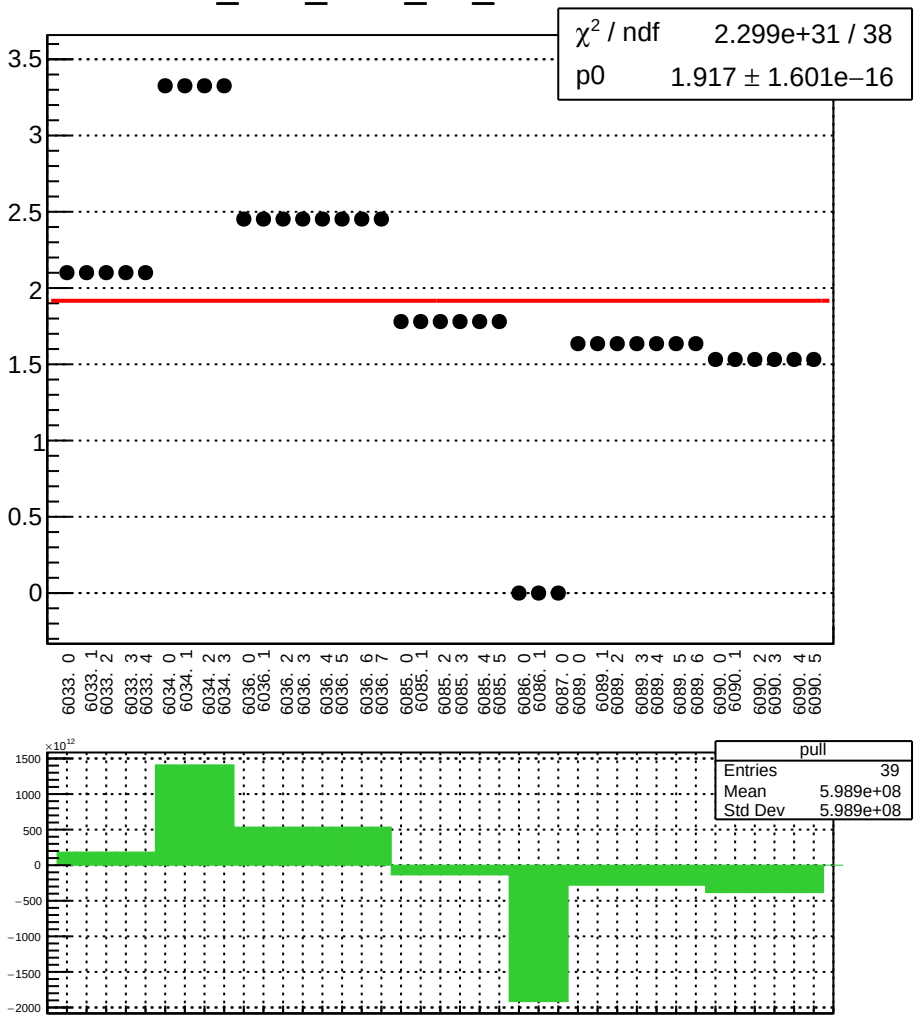

dit_4aX_coil6_mean vs run
χ² / ndf 2.603e+32 / 38
p0 −0.1309 ± 1.601e−16
pull
Entries 39
Mean 1.164e+09
Std Dev 1.164e+09
pull1D
Entries 39
Mean 0
Std Dev 0

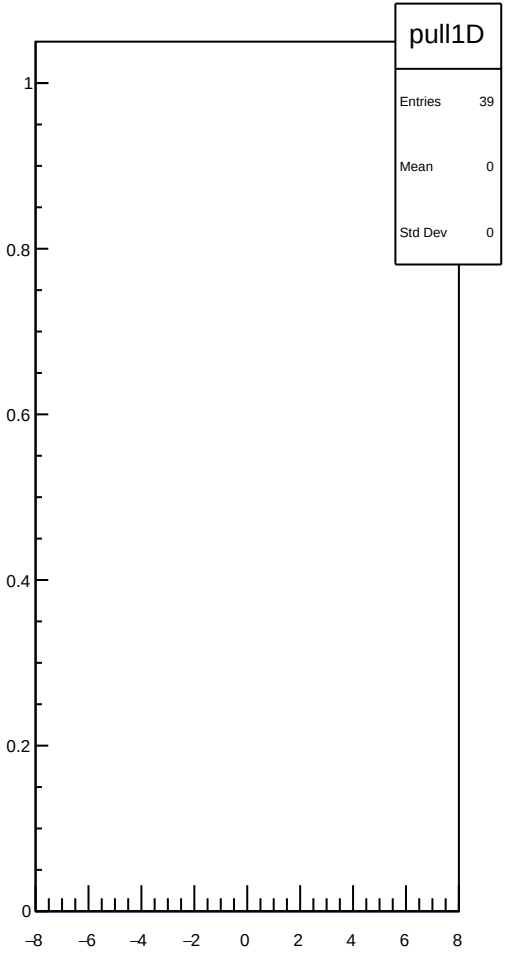

dit_4aX_coil6_err_mean vs run
χ² / ndf 7.067e+31 / 38
p0 3.269 ± 1.601e−16
pull
Entries 39
Mean −6.608e+08
Std Dev 6.608e+08

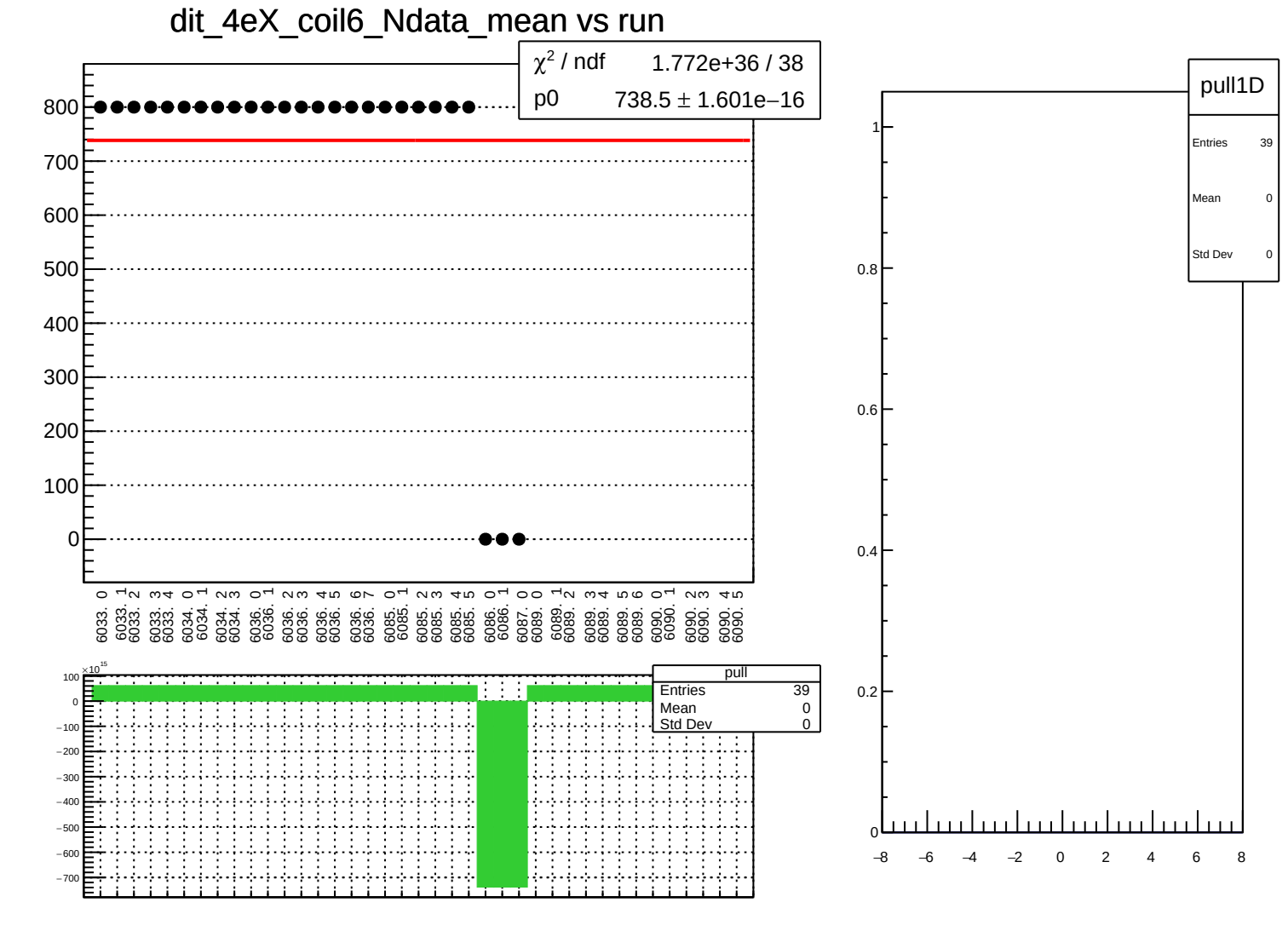

pull1D
Entries 39
Mean 0
Std Dev 0

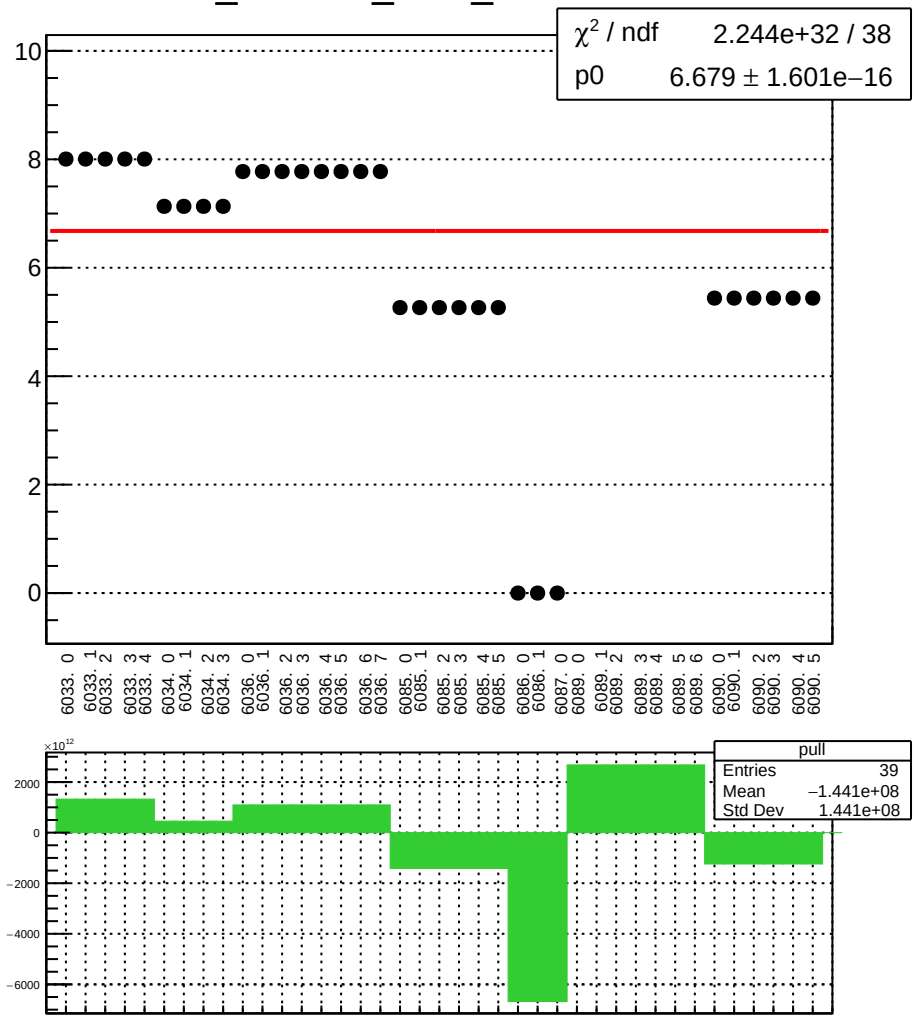

dit_4aX_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_4eX_coil6_mean vs run
χ² / ndf 2.004e+32 / 38
p0 1.145 ± 1.601e−16
4
3
2
1
0
−1
−2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 39
Mean 5.068e+08
Std Dev 5.068e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

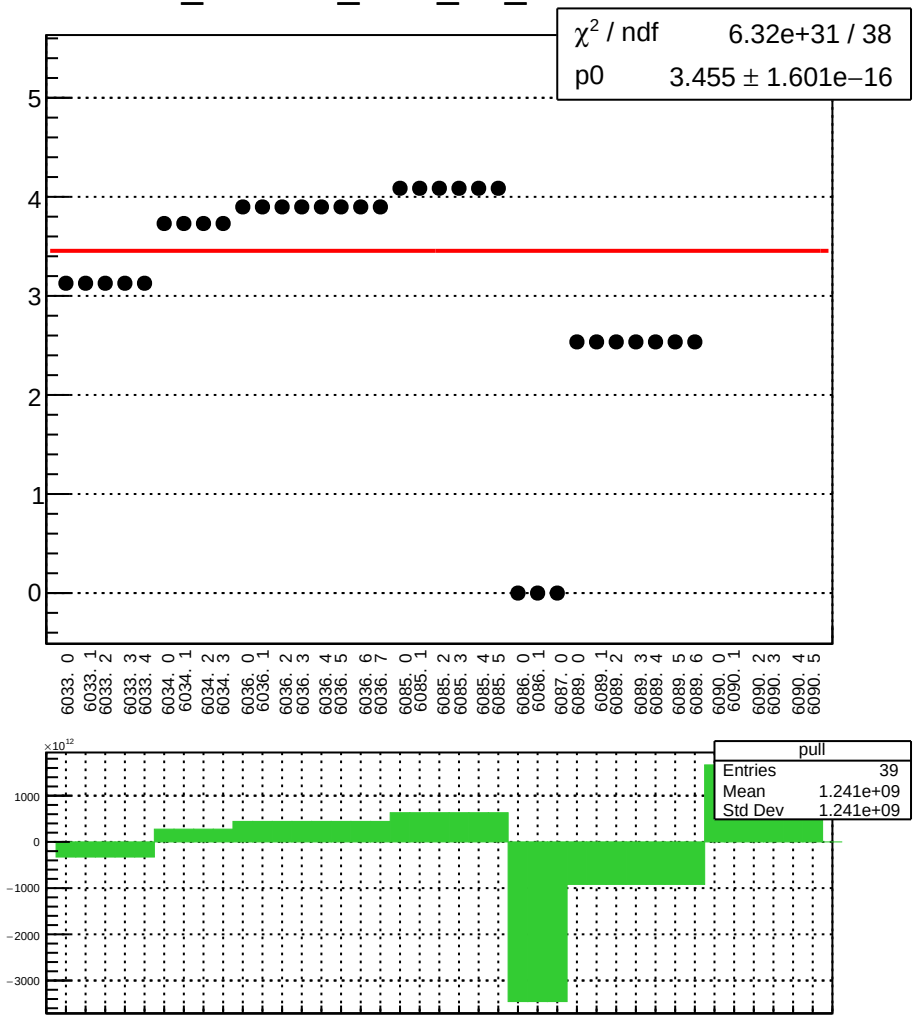

dit_4eX_coil6_err_mean vs run
χ² / ndf 2.299e+31 / 38
p0 1.917 ± 1.601e−16
pull
Entries 39
Mean 5.989e+08
Std Dev 5.989e+08
×10¹²

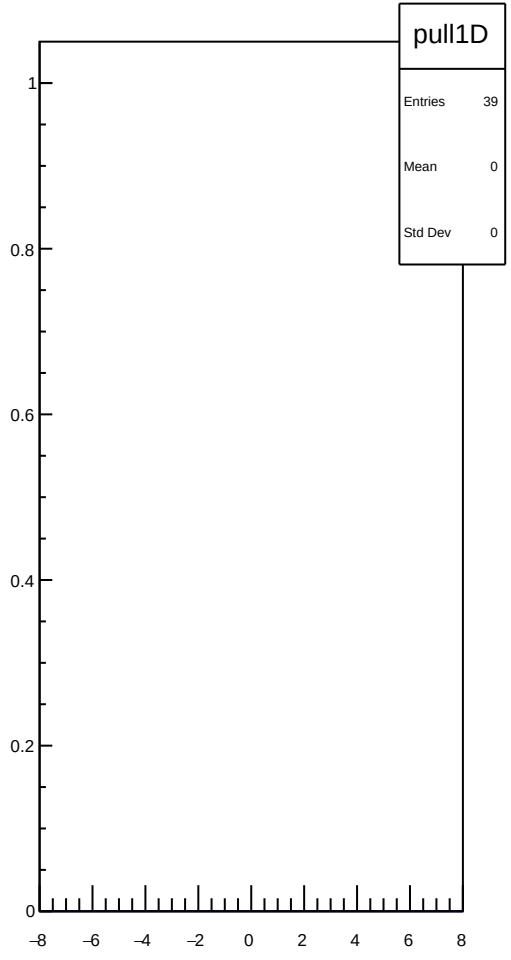

pull1D
Entries 39
Mean 0
Std Dev 0

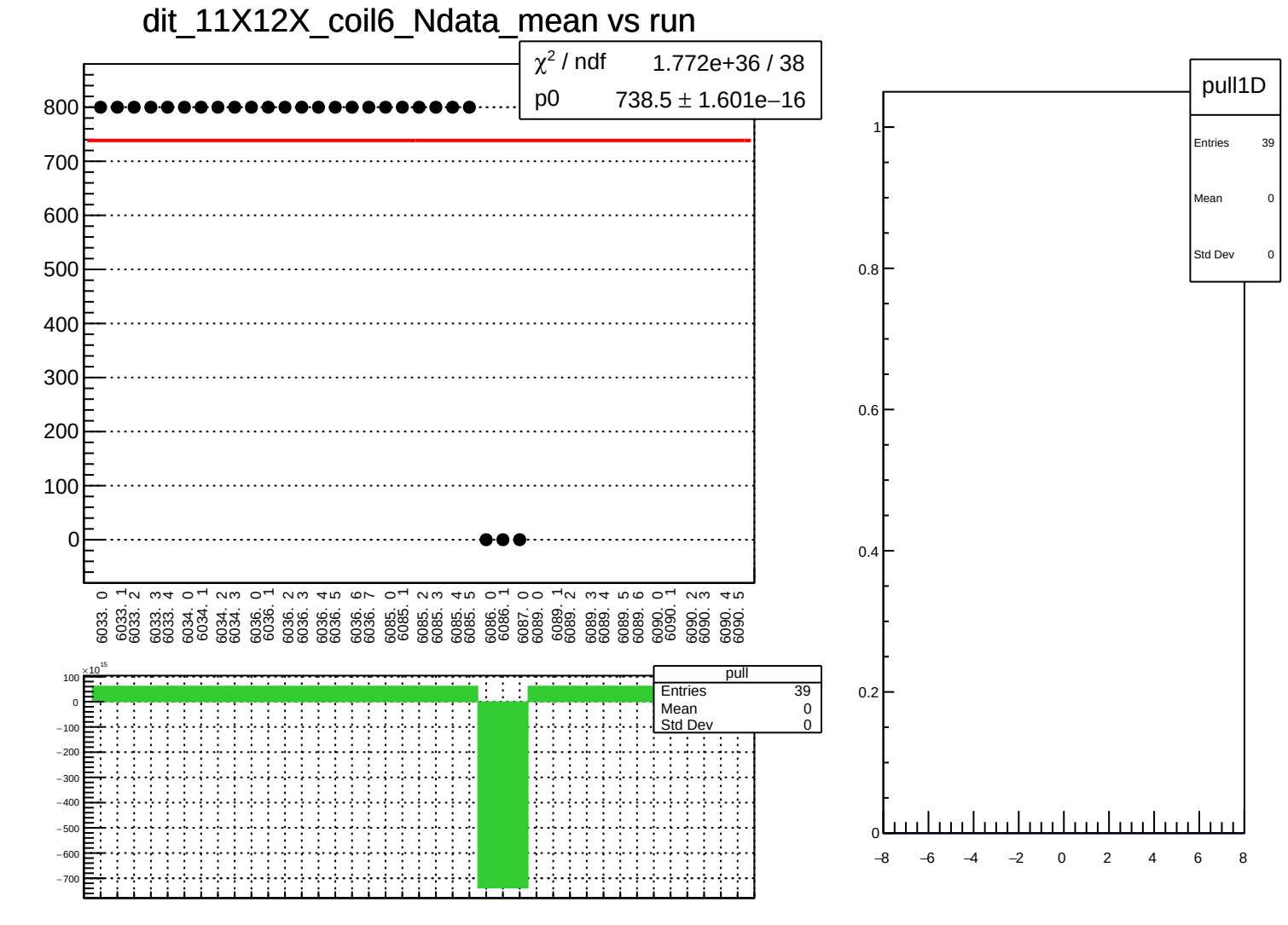

dit_4eX_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

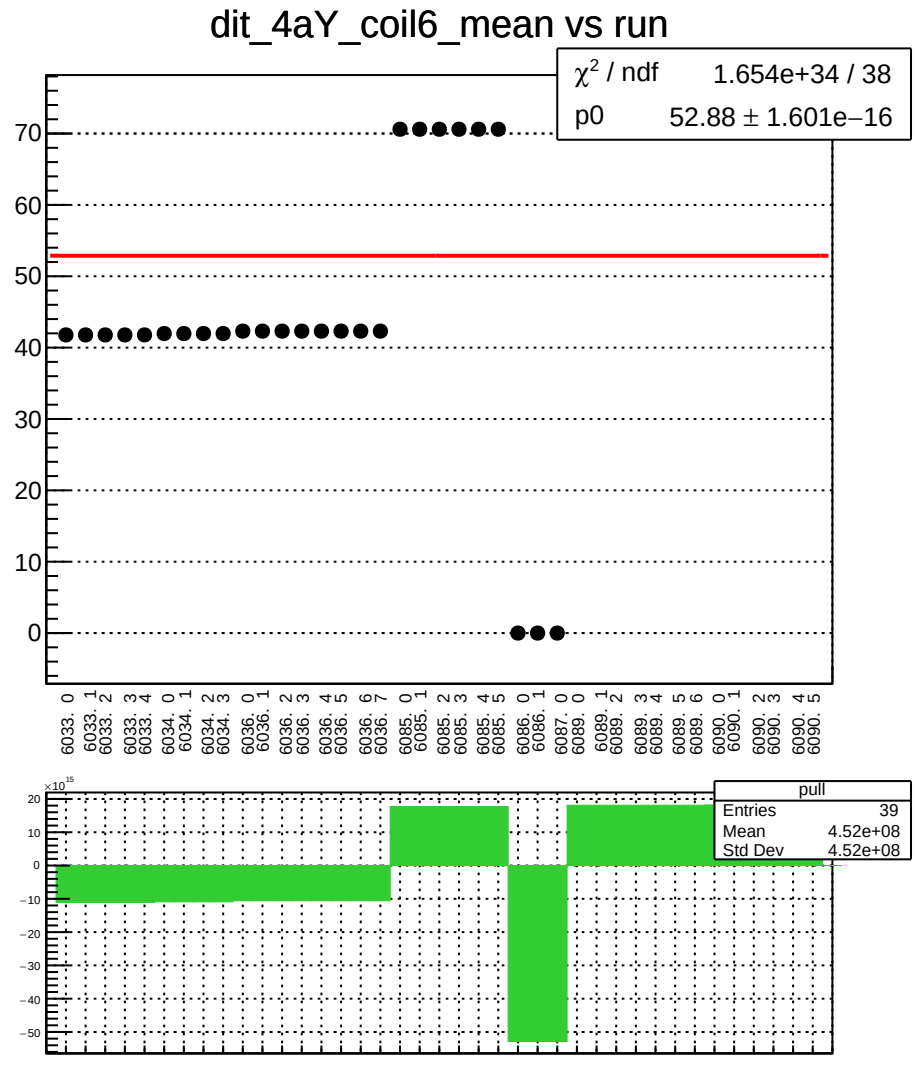

dit_11X12X_coil6_mean vs run
χ² / ndf 2.244e+32 / 38
p0 6.679 ± 1.601e−16
10
8
6
4
2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
2000
0
−2000
−4000
−6000
pull
Entries 39
Mean −1.441e+08
Std Dev 1.441e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

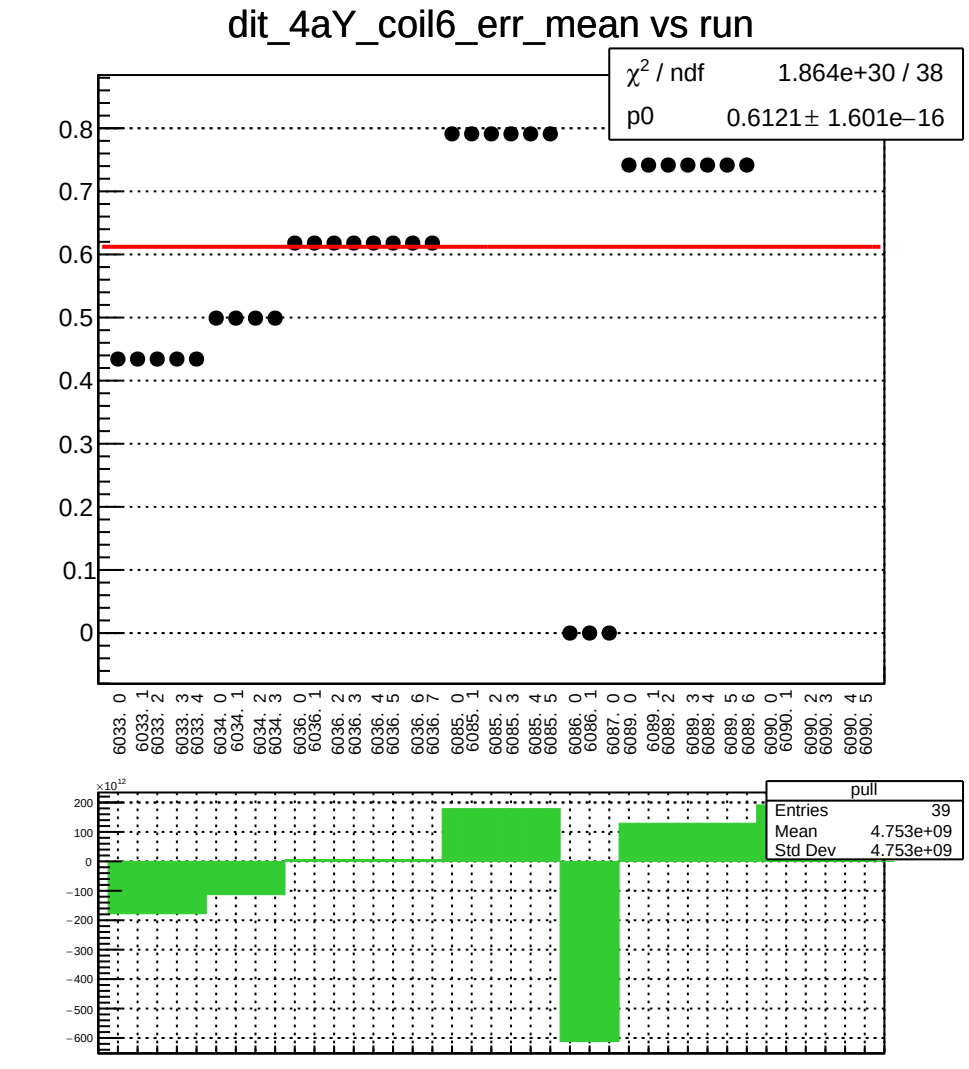
dit_11X12X_coil6_err_mean vs run

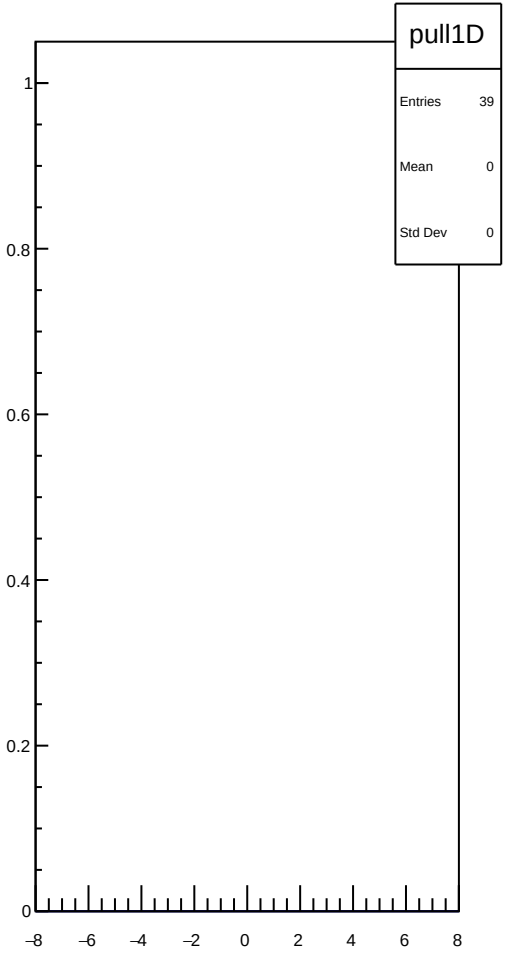


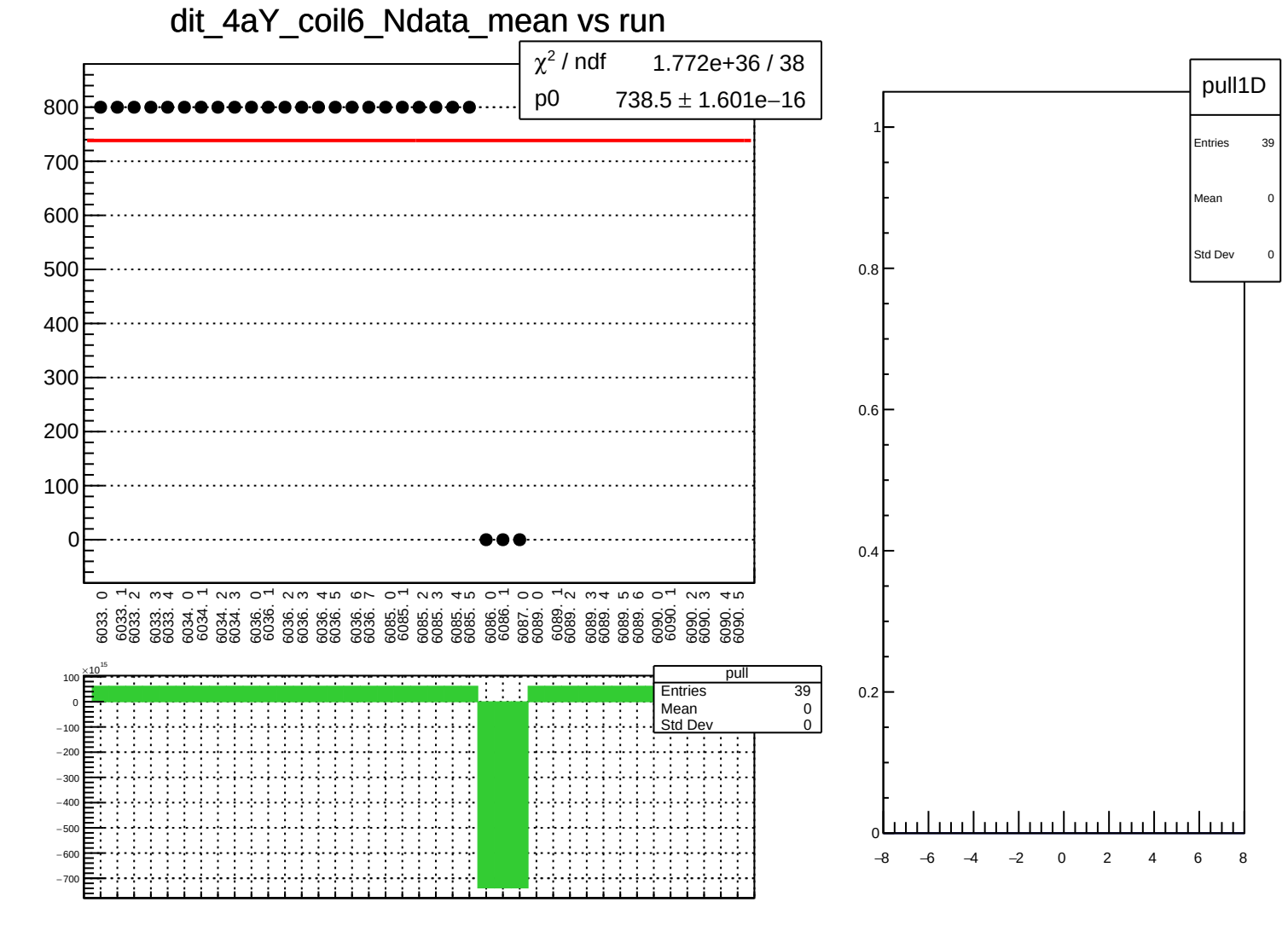


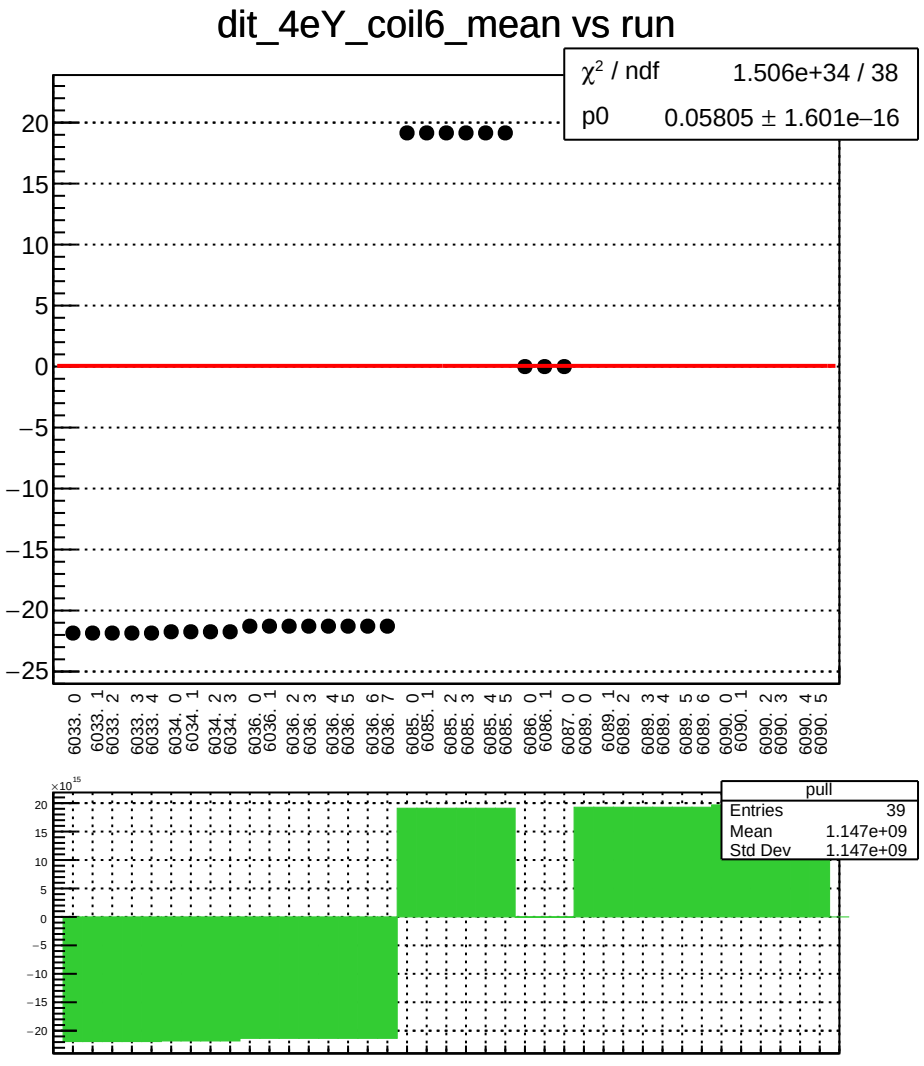

dit_11X12X_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

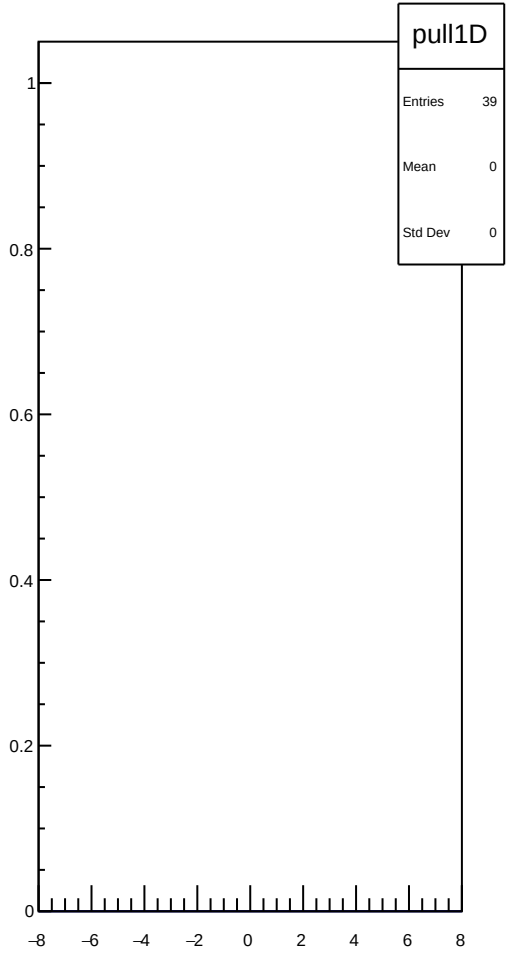

dit_4aY_coil6_mean vs run
χ² / ndf 1.654e+34 / 38
p0 52.88 ± 1.601e−16
70
60
50
40
30
20
10
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
20
10
0
−10
−20
−30
−40
−50
pull
Entries 39
Mean 4.52e+08
Std Dev 4.52e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

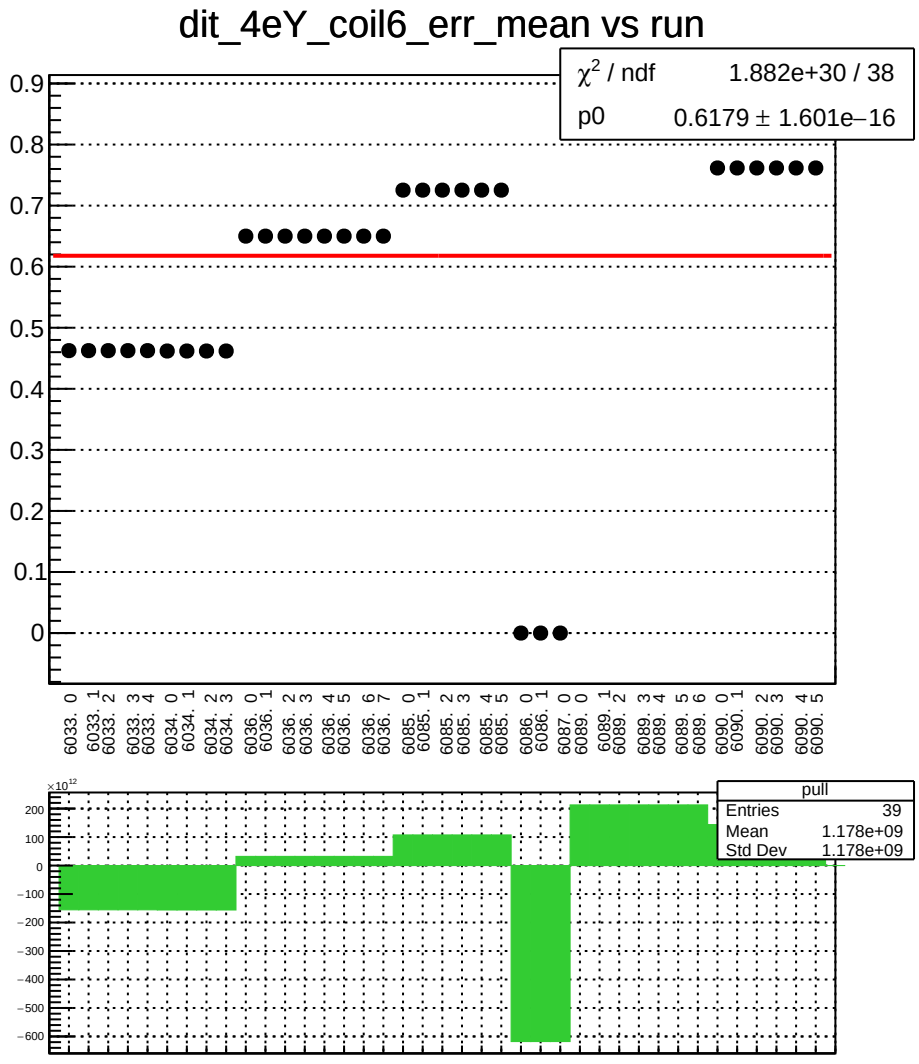

dit_4aY_coil6_err_mean vs run
χ² / ndf 1.864e+30 / 38
p0 0.6121 ± 1.601e−16
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
200
100
0
−100
−200
−300
−400
−500
−600
pull
Entries 39
Mean 4.753e+09
Std Dev 4.753e+09

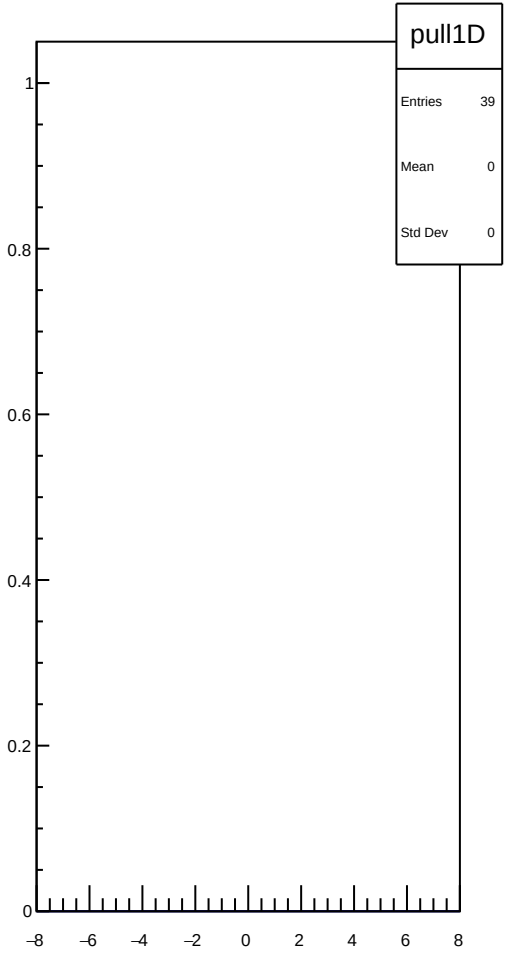

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

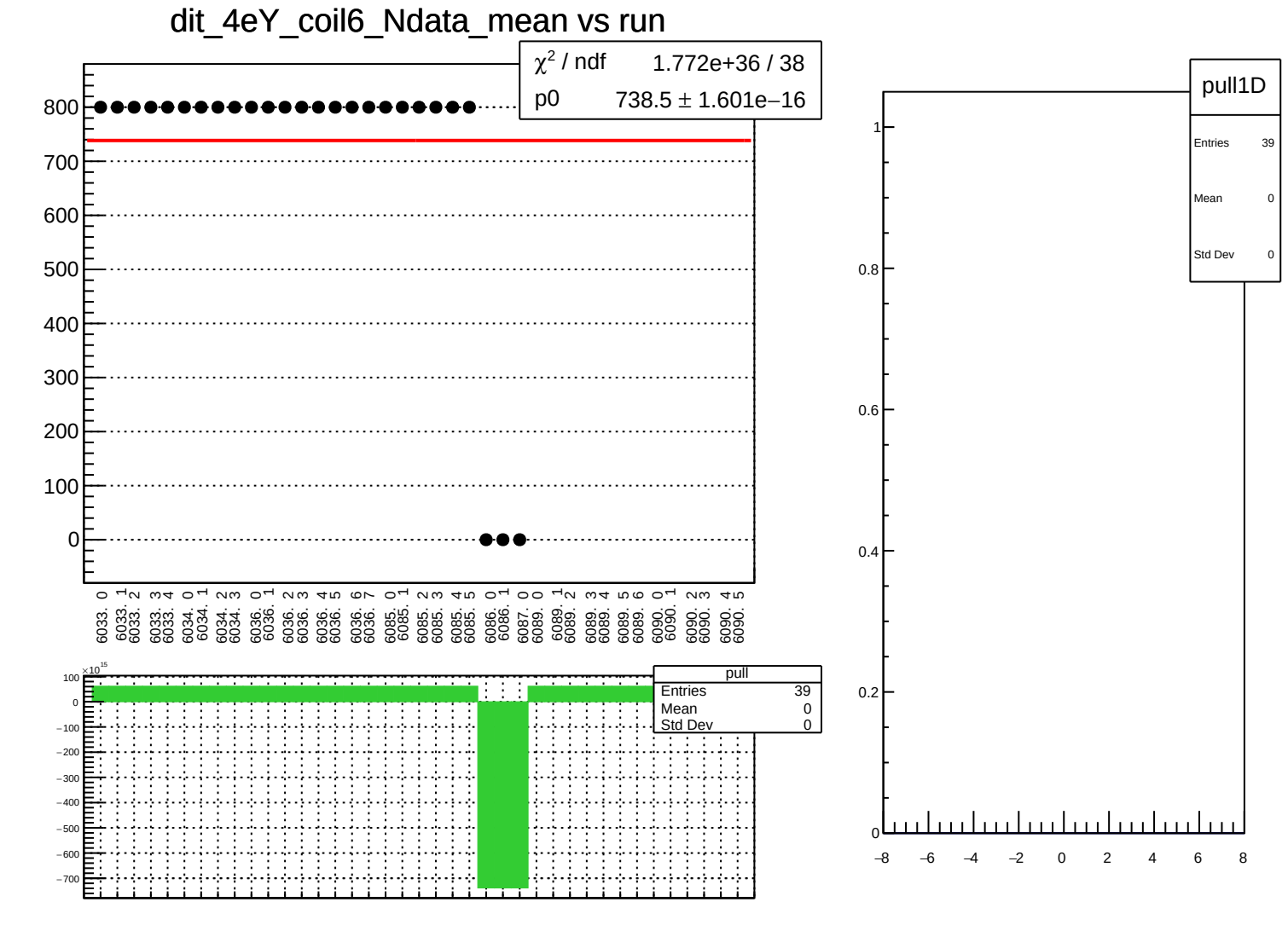

dit_4aY_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

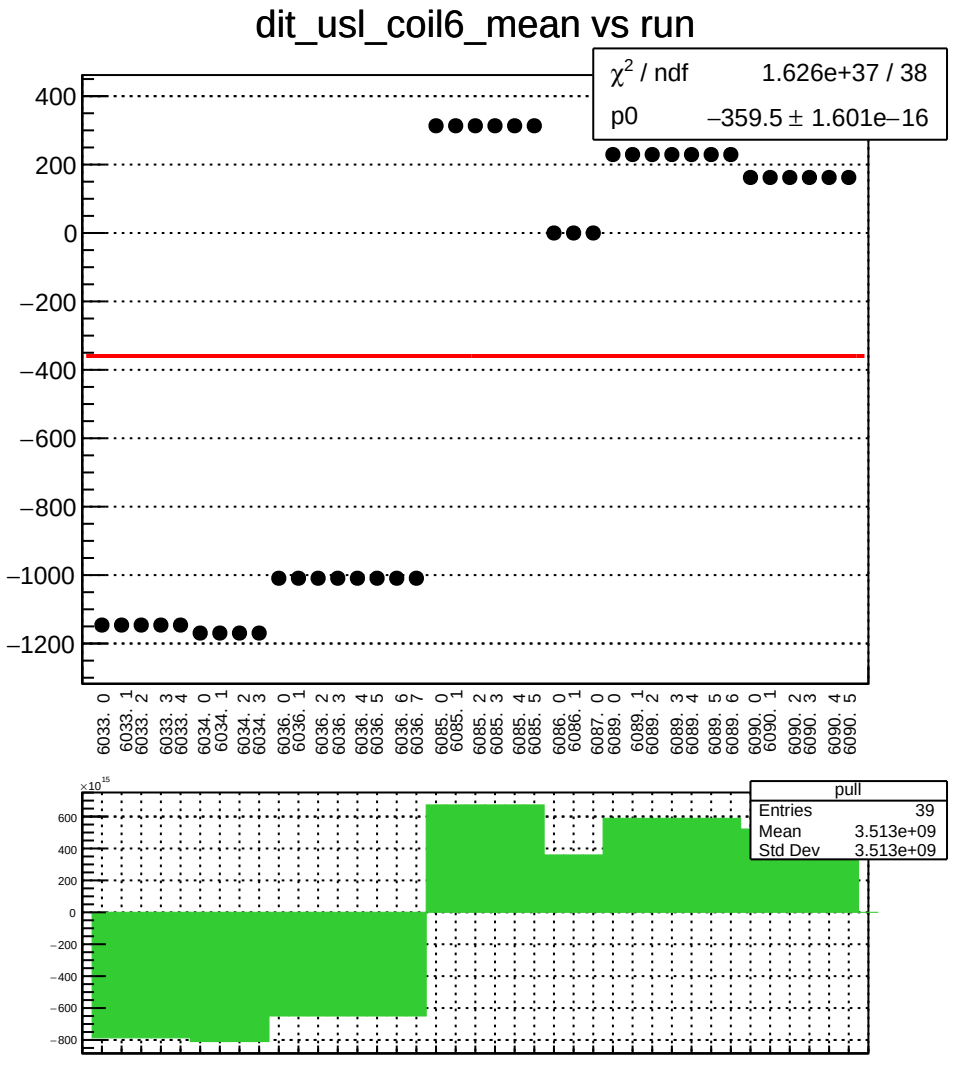

dit_4eY_coil6_mean vs run
χ² / ndf 1.506e+34 / 38
p0 0.05805 ± 1.601e−16
pull
Entries 39
Mean 1.147e+09
Std Dev 1.147e+09

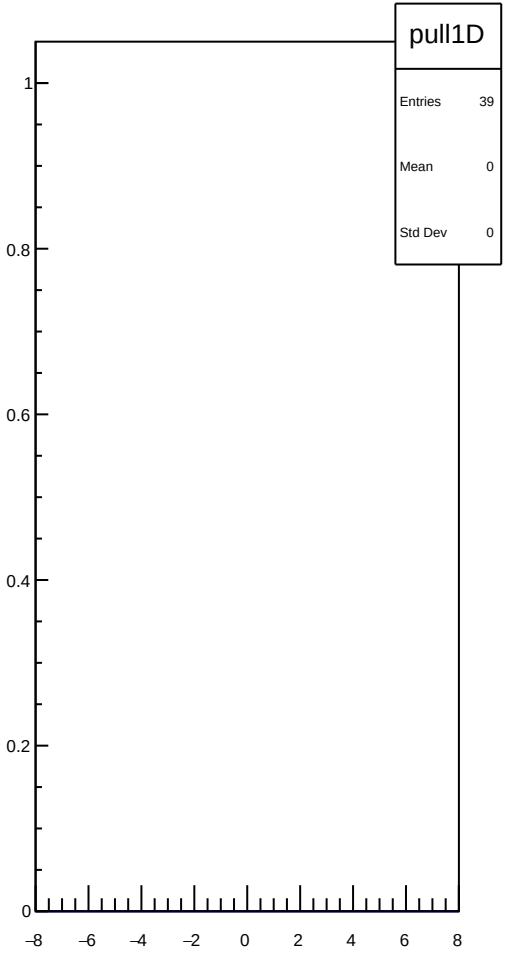

pull1D
Entries 39
Mean 0
Std Dev 0

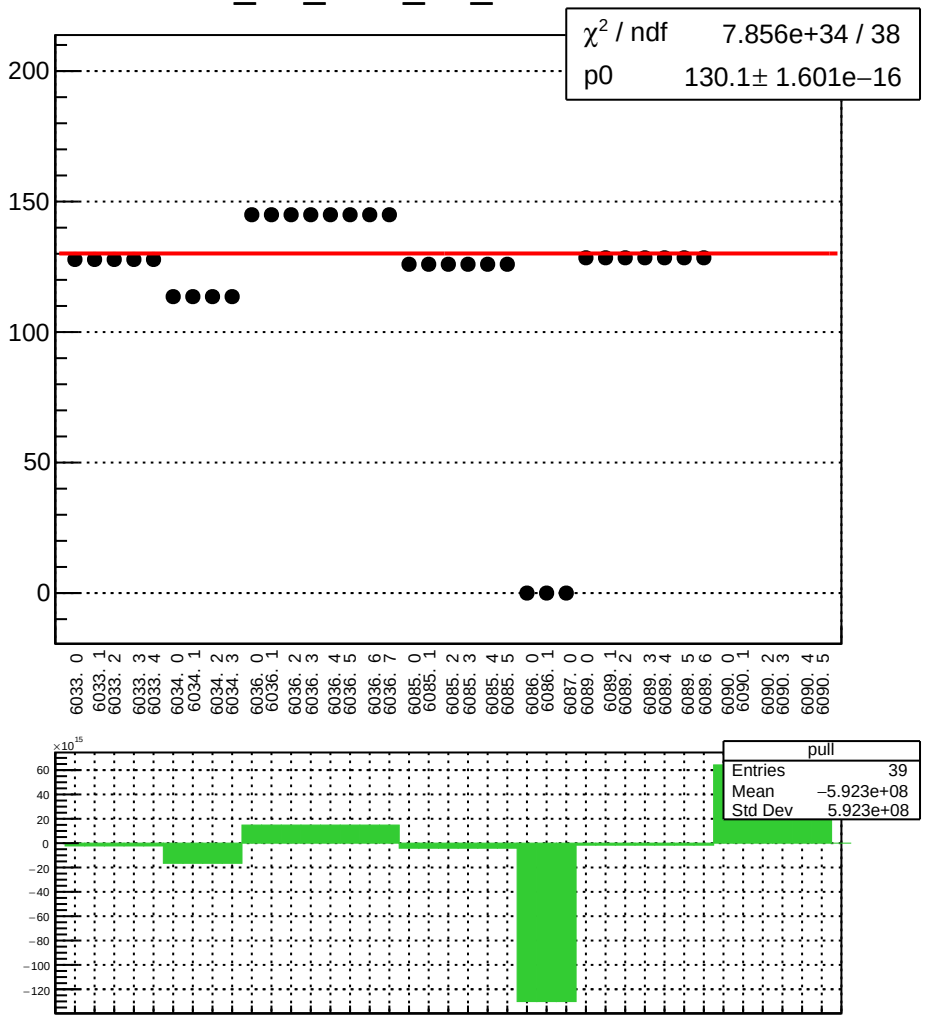

dit_4eY_coil6_err_mean vs run
χ² / ndf 1.882e+30 / 38
p0 0.6179 ± 1.601e−16
pull
Entries 39
Mean 1.178e+09
Std Dev 1.178e+09

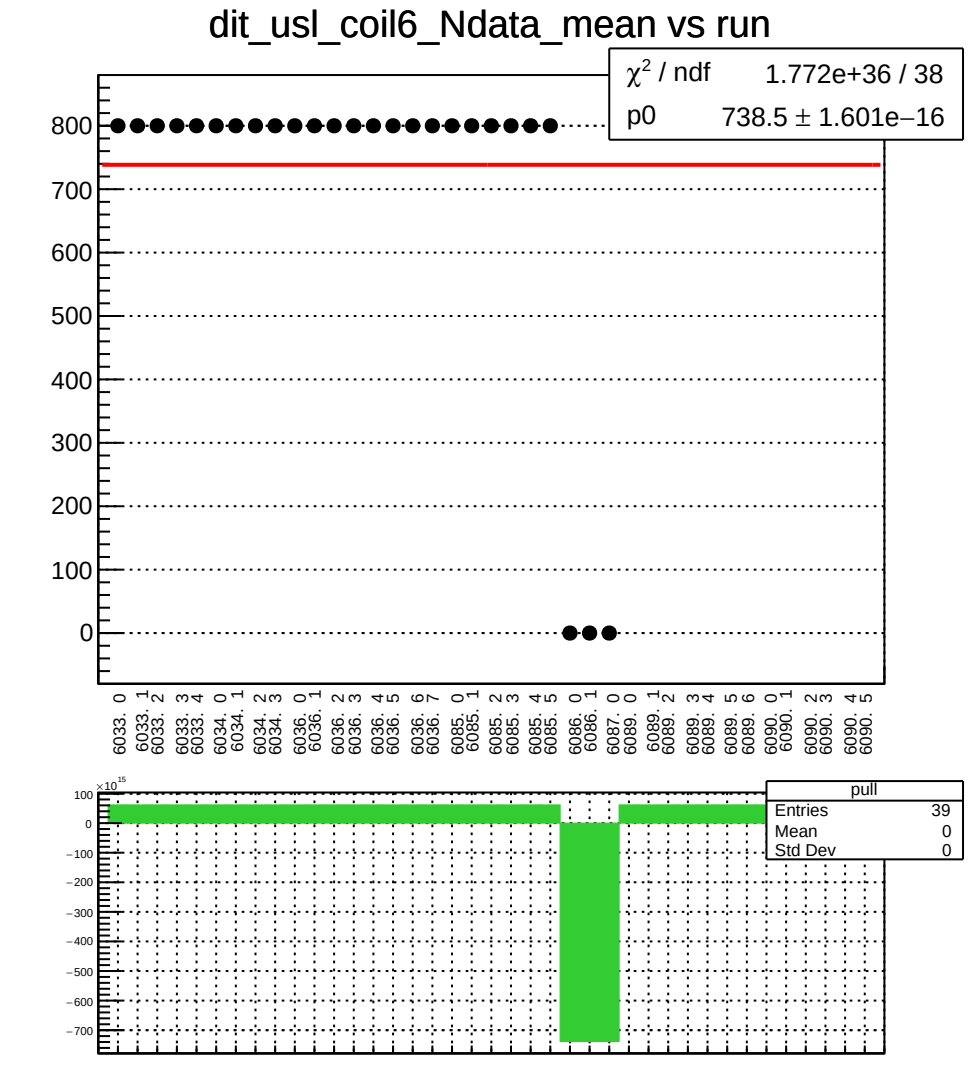

pull1D
Entries 39
Mean 0
Std Dev 0

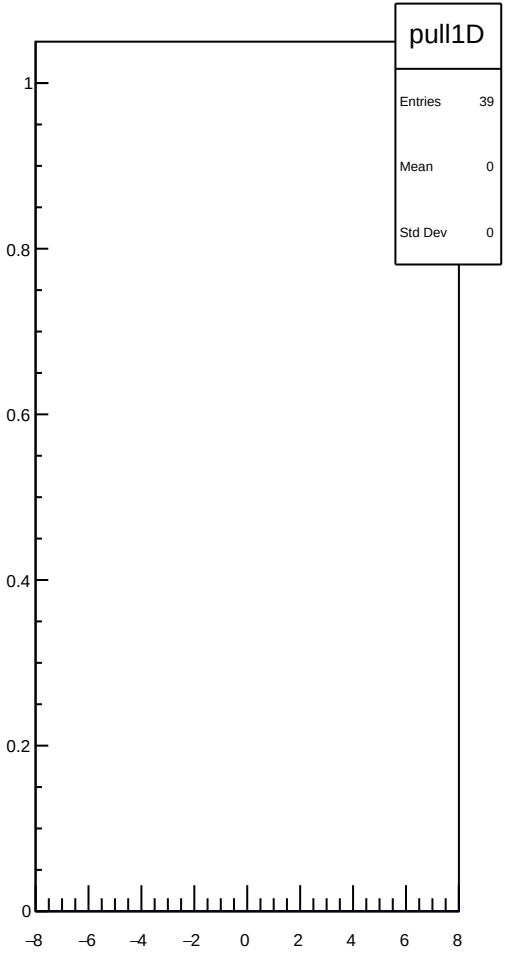

dit_4eY_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

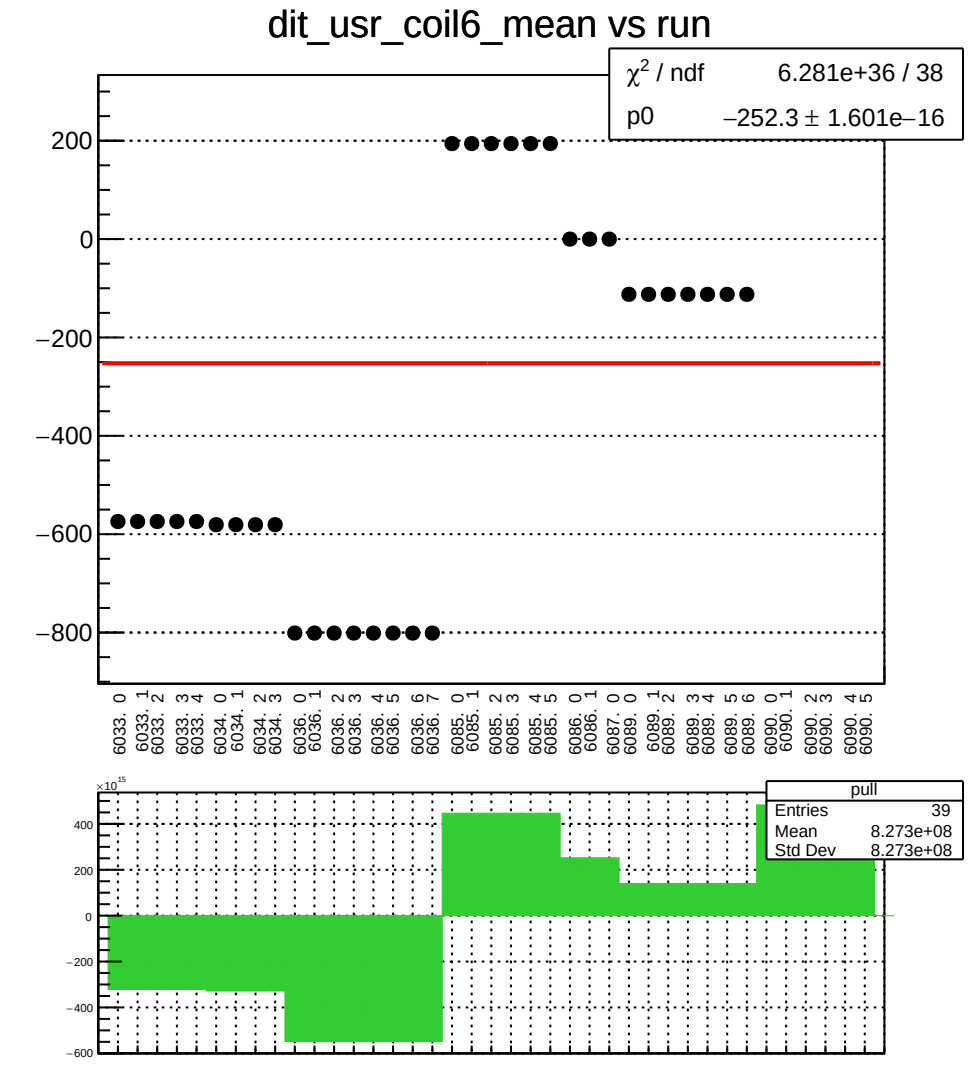

dit_usl_coil6_mean vs run
χ² / ndf 1.626e+37 / 38
p0 −359.5 ± 1.601e−16
400
200
0
−200
−400
−600
−800
−1000
−1200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 39
Mean 3.513e+09
Std Dev 3.513e+09

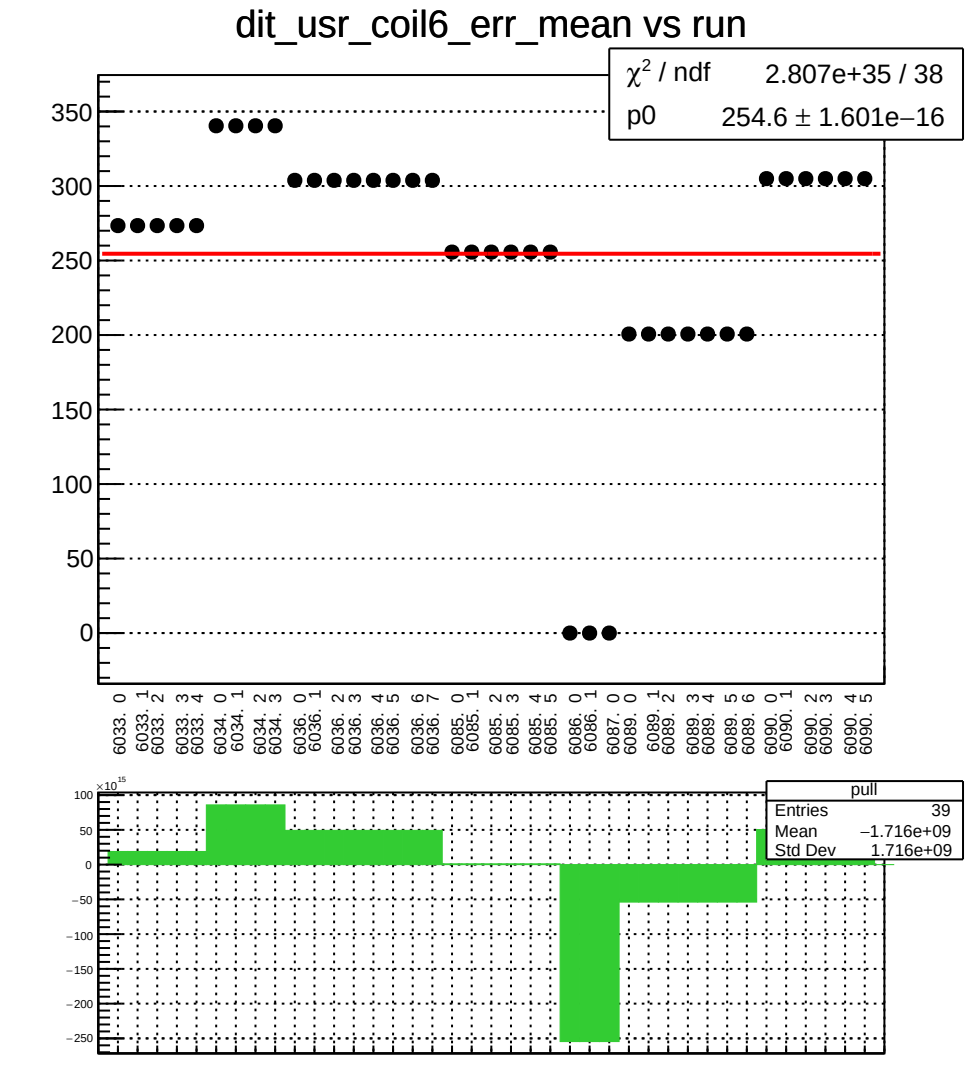

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

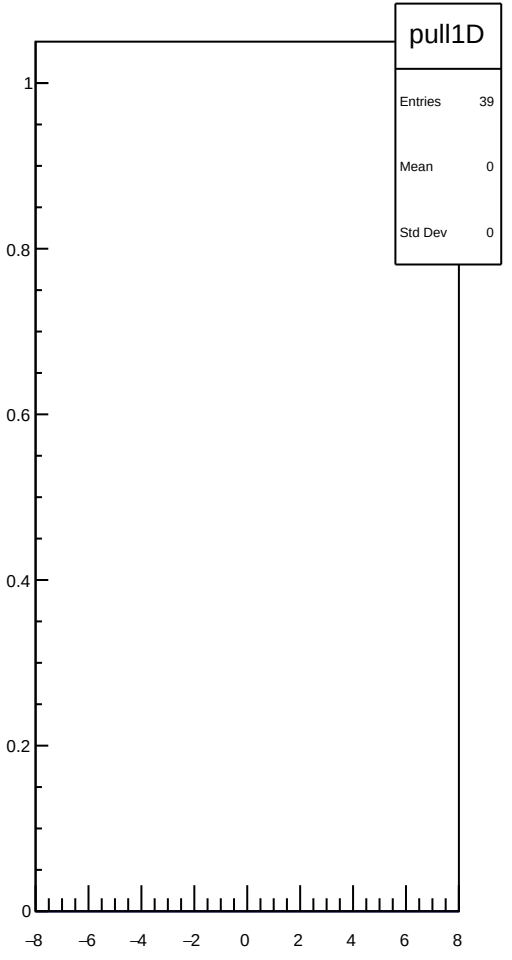

dit_usl_coil6_err_mean vs run
χ² / ndf 7.856e+34 / 38
p0 130.1± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
60
40
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 39
Mean −5.923e+08
Std Dev 5.923e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

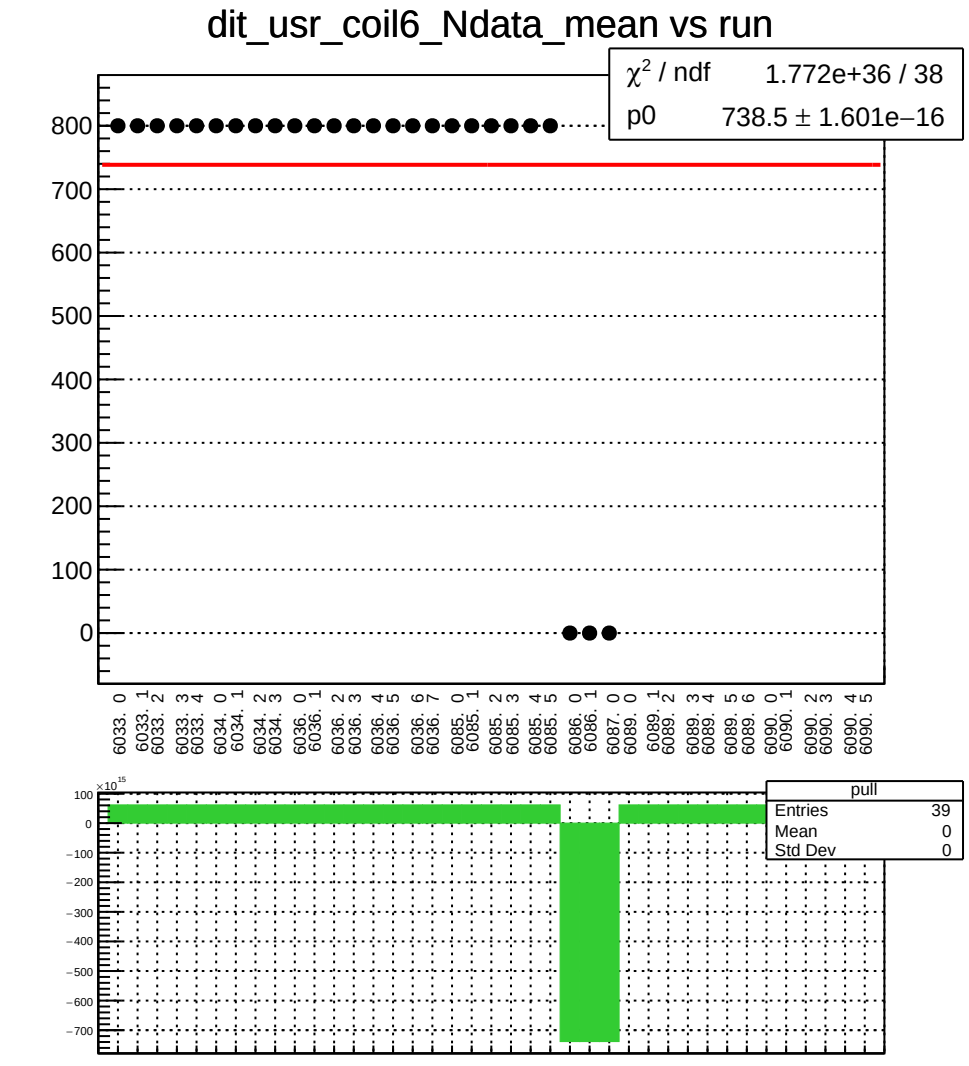

dit_usl_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

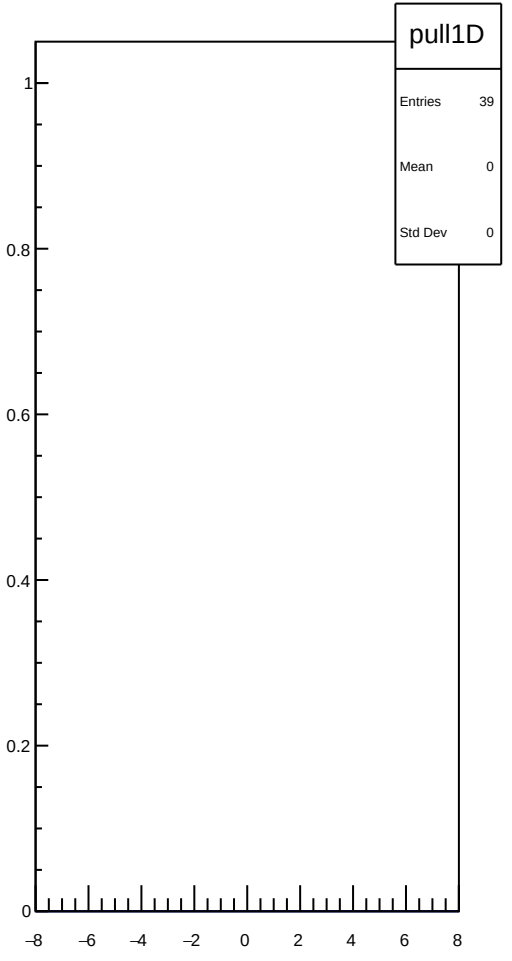

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

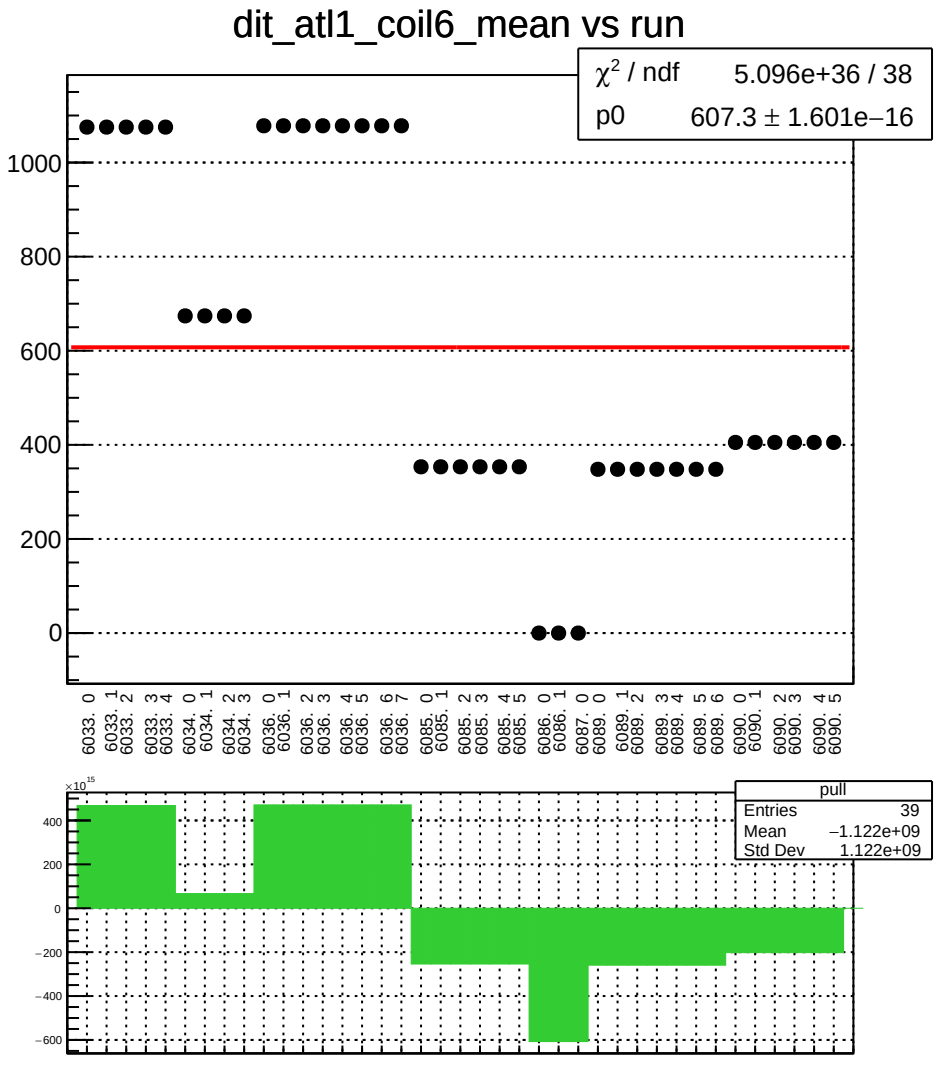

dit_usr_coil6_mean vs run
χ² / ndf 6.281e+36 / 38
p0 −252.3 ± 1.601e−16
200
0
−200
−400
−600
−800
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 39
Mean 8.273e+08
Std Dev 8.273e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

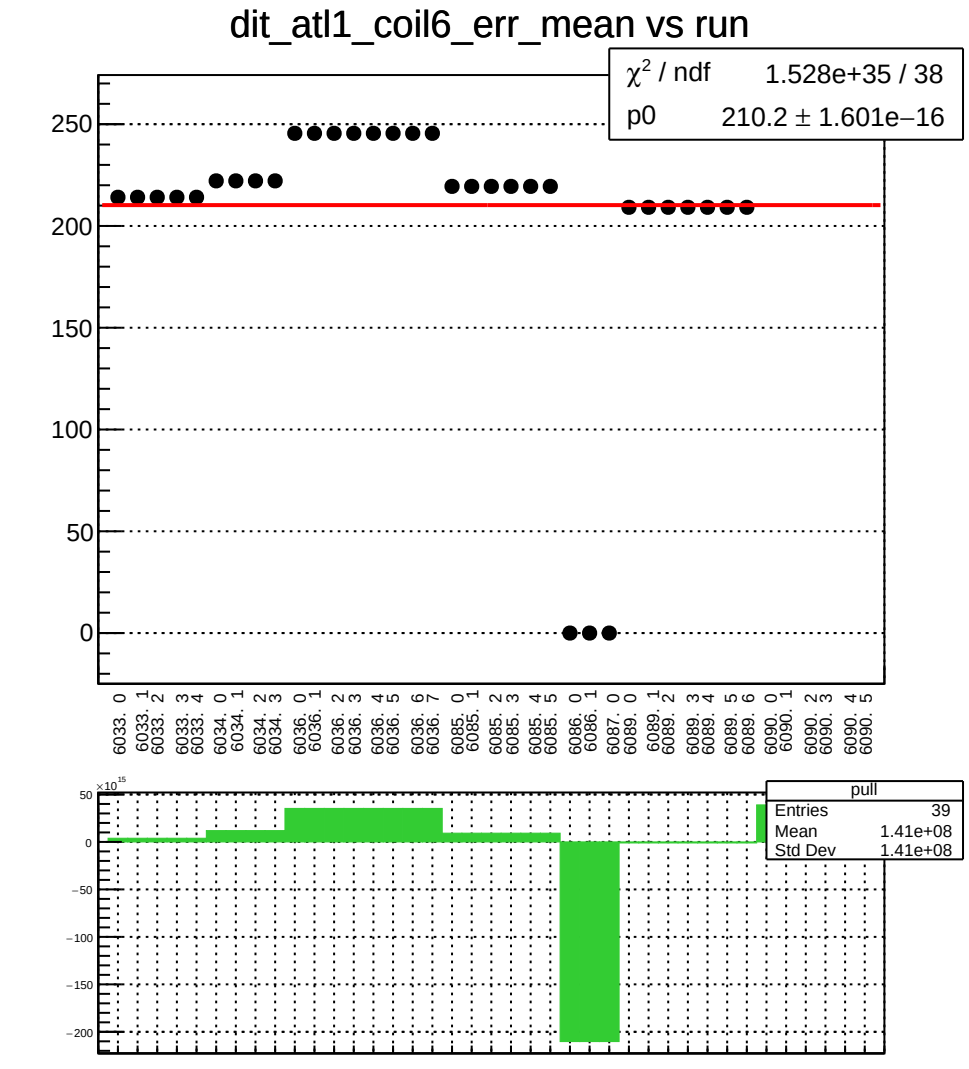

dit_usr_coil6_err_mean vs run
χ² / ndf 2.807e+35 / 38
p0 254.6 ± 1.601e−16
350
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
50
0
−50
−100
−150
−200
−250
pull
Entries 39
Mean −1.716e+09
Std Dev 1.716e+09

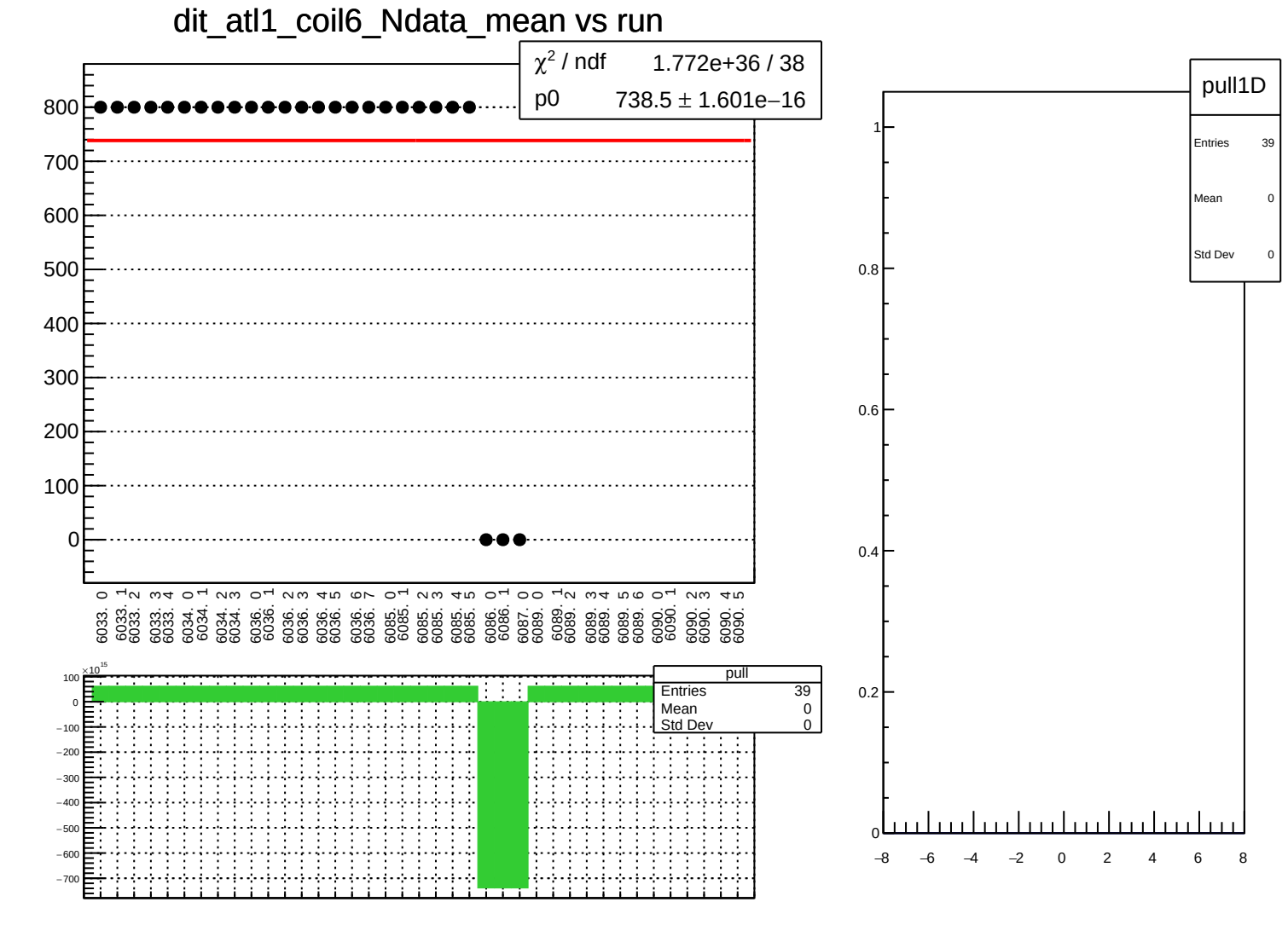

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

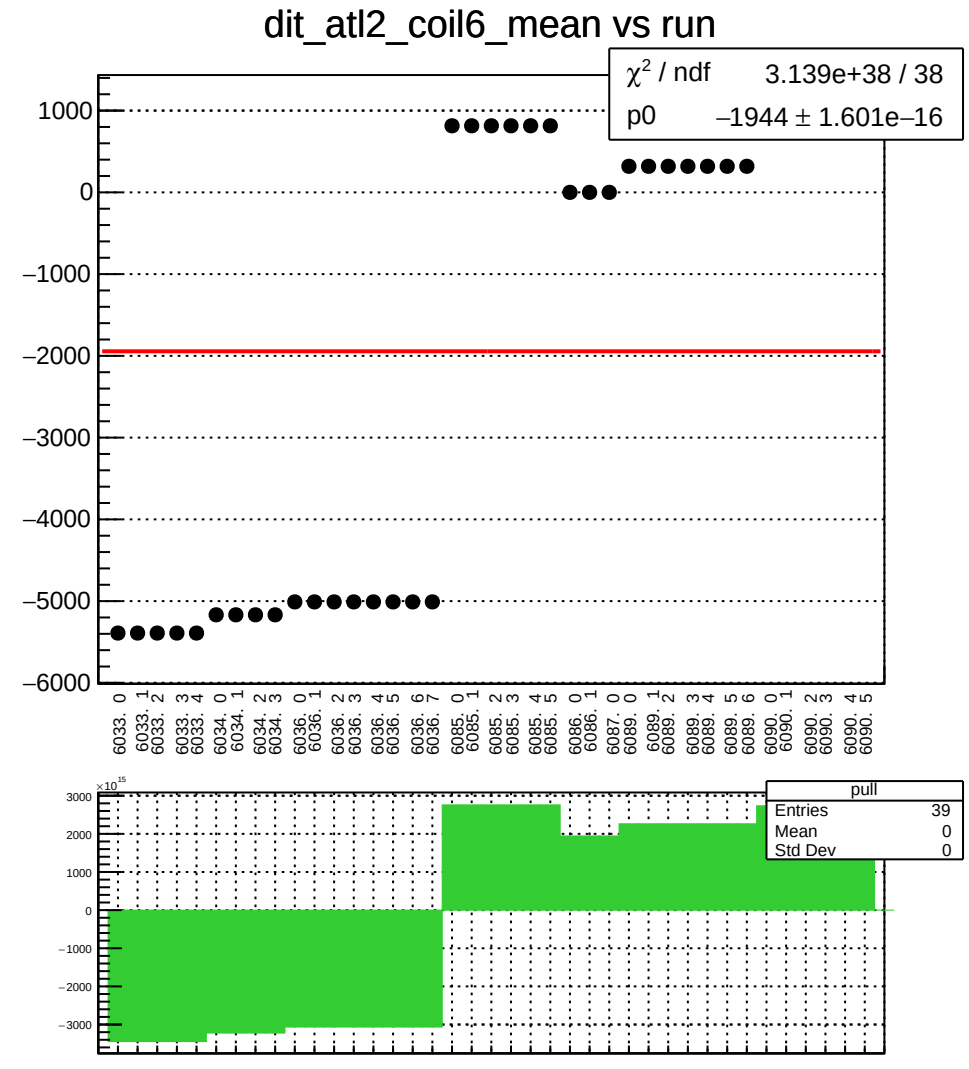

dit_usr_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

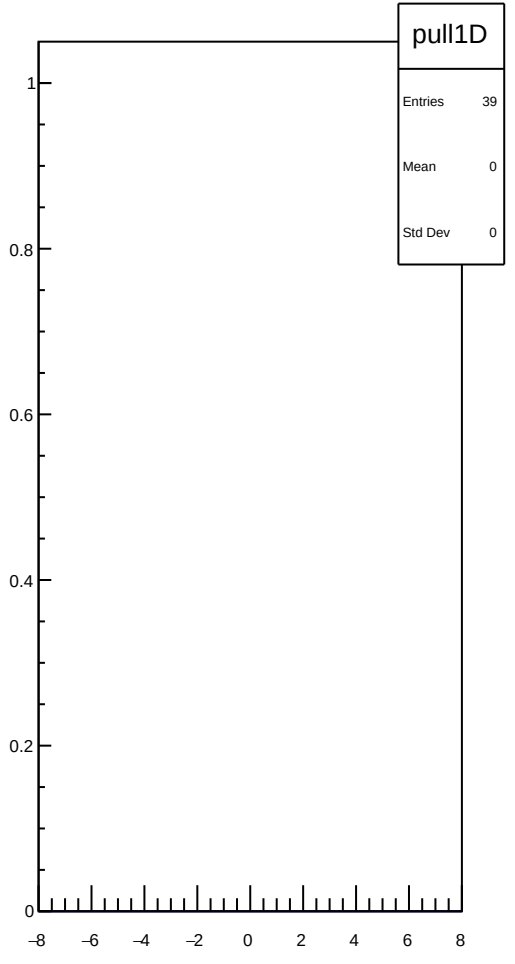

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

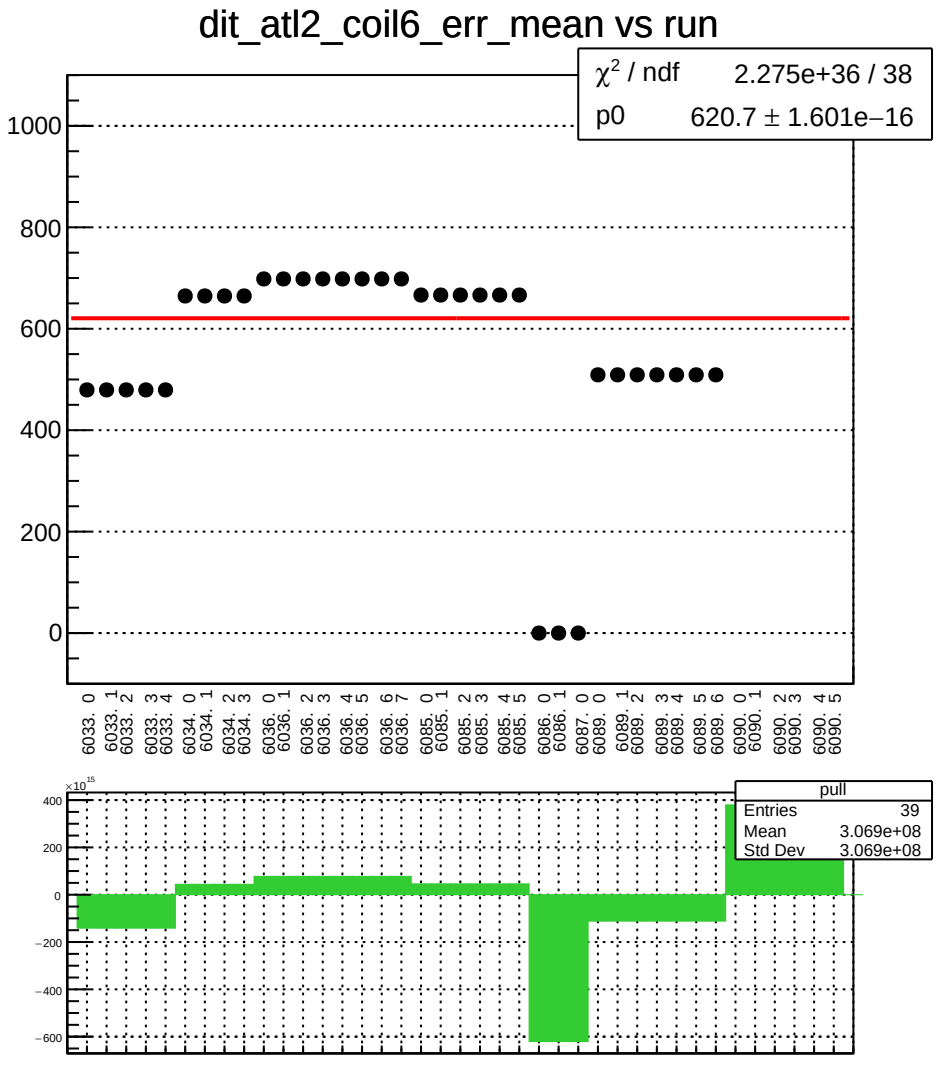

dit_atl1_coil6_mean vs run
χ² / ndf 5.096e+36 / 38
p0 607.3 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 39
Mean −1.122e+09
Std Dev 1.122e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

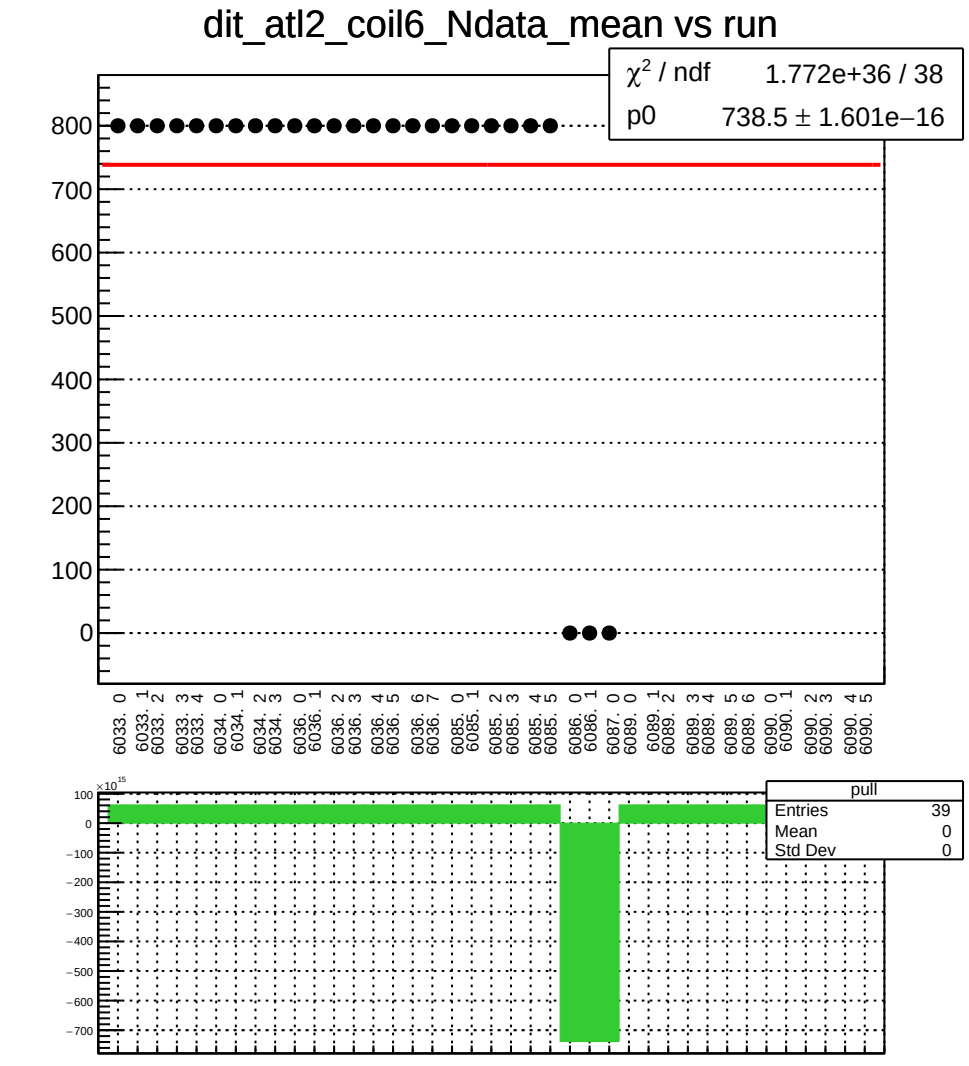

dit_atl1_coil6_err_mean vs run
χ² / ndf 1.528e+35 / 38
p0 210.2 ± 1.601e−16
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
−200
pull
Entries 39
Mean 1.41e+08
Std Dev 1.41e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

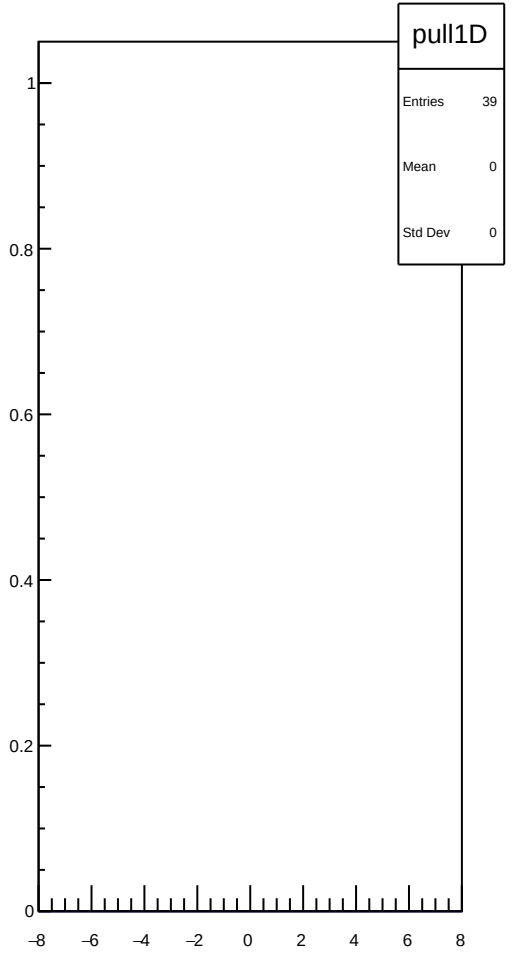

dit_atl1_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

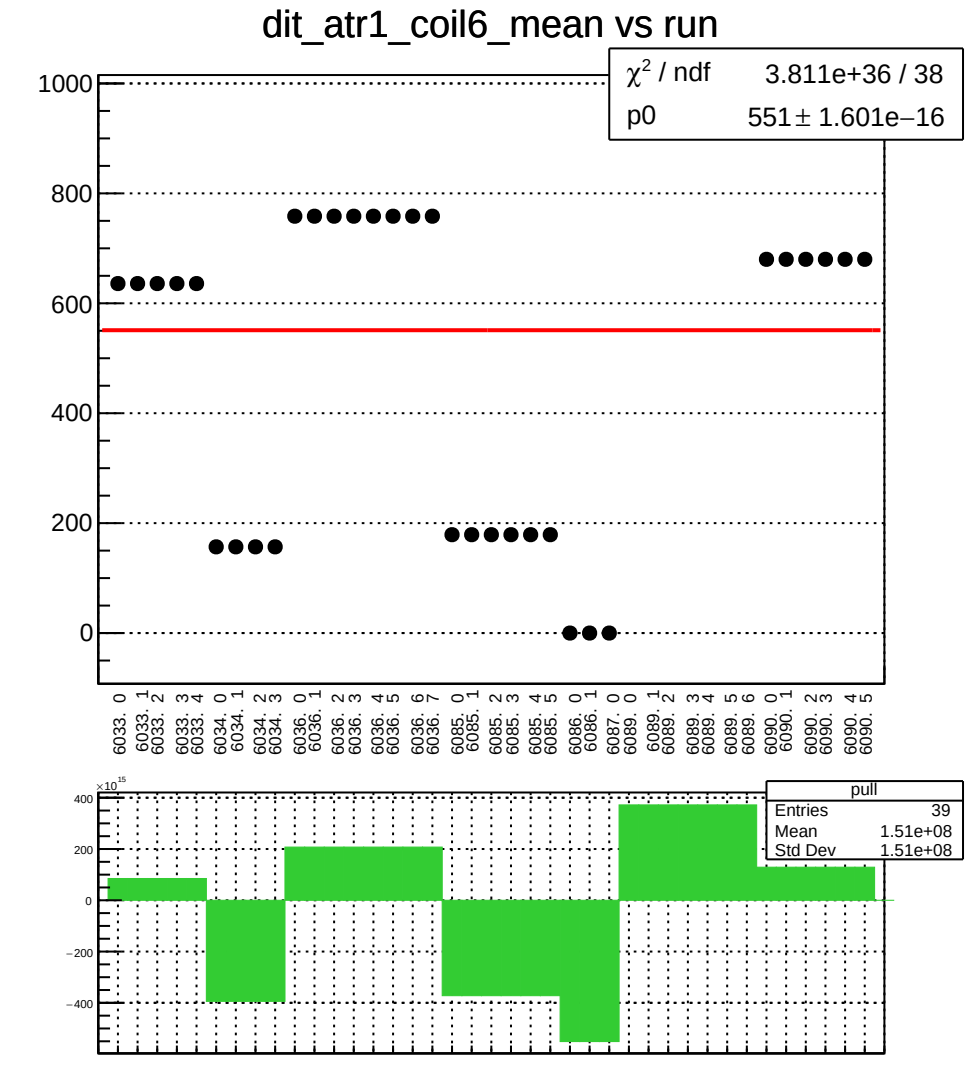

dit_atl2_coil6_mean vs run
χ² / ndf 3.139e+38 / 38
p0 –1944 ± 1.601e–16
1000
0
–1000
–2000
–3000
–4000
–5000
–6000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
3000
2000
1000
0
–1000
–2000
–3000
pull
Entries 39
Mean 0
Std Dev 0

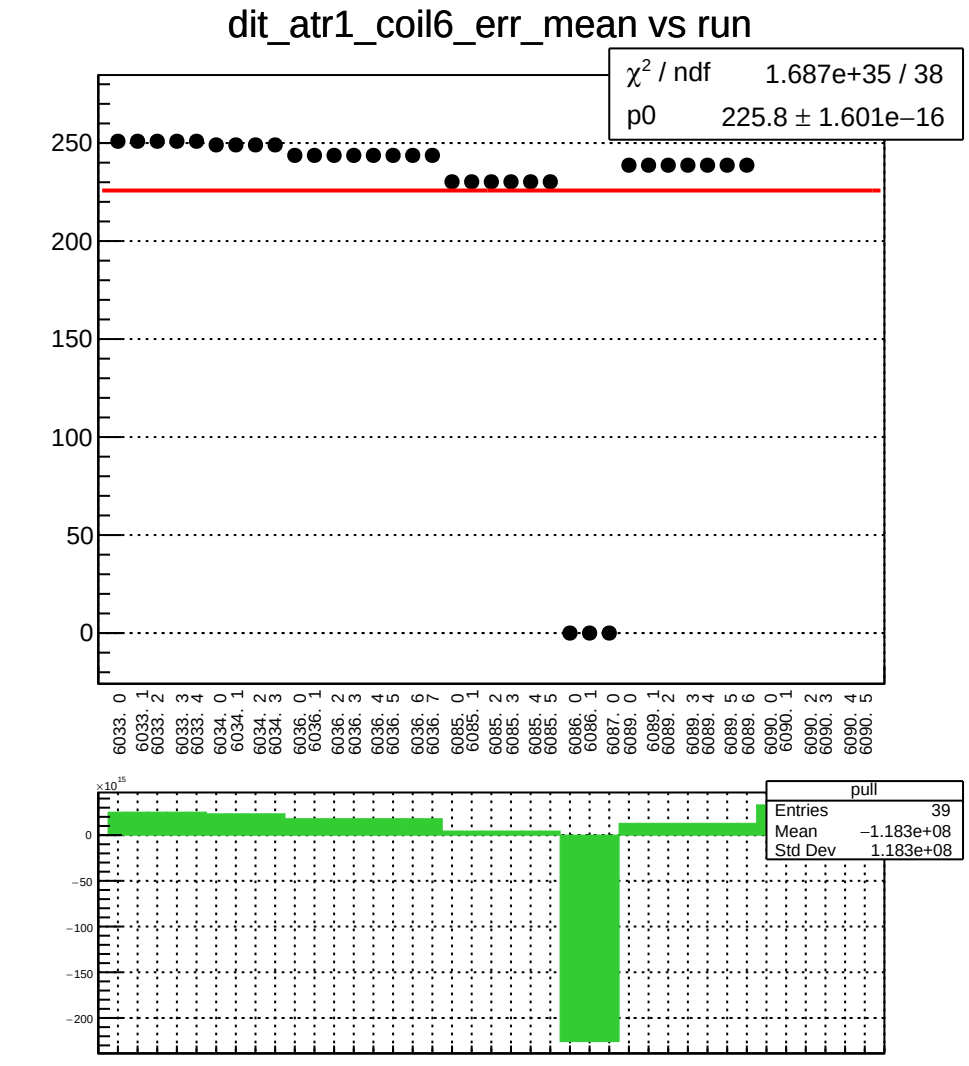

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

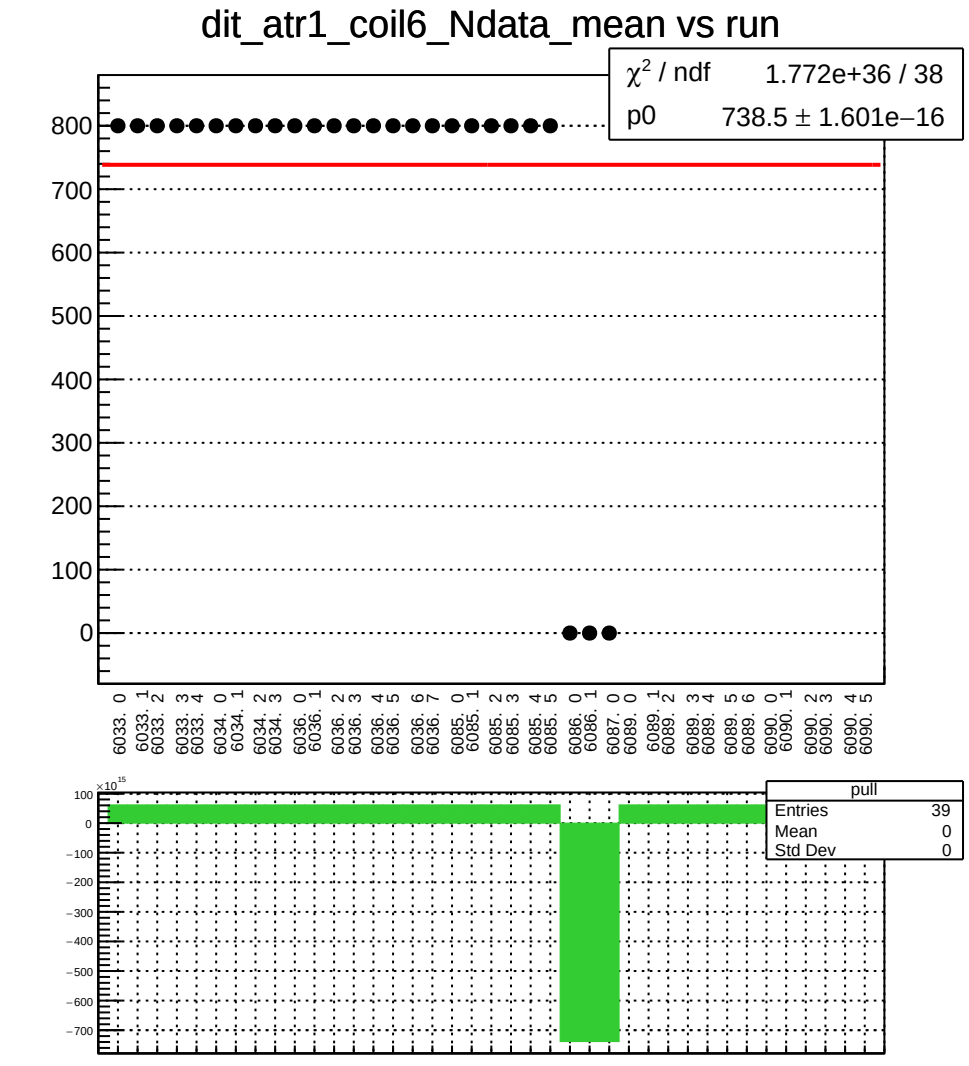

dit_atl2_coil6_err_mean vs run
χ² / ndf 2.275e+36 / 38
p0 620.7 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 39
Mean 3.069e+08
Std Dev 3.069e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

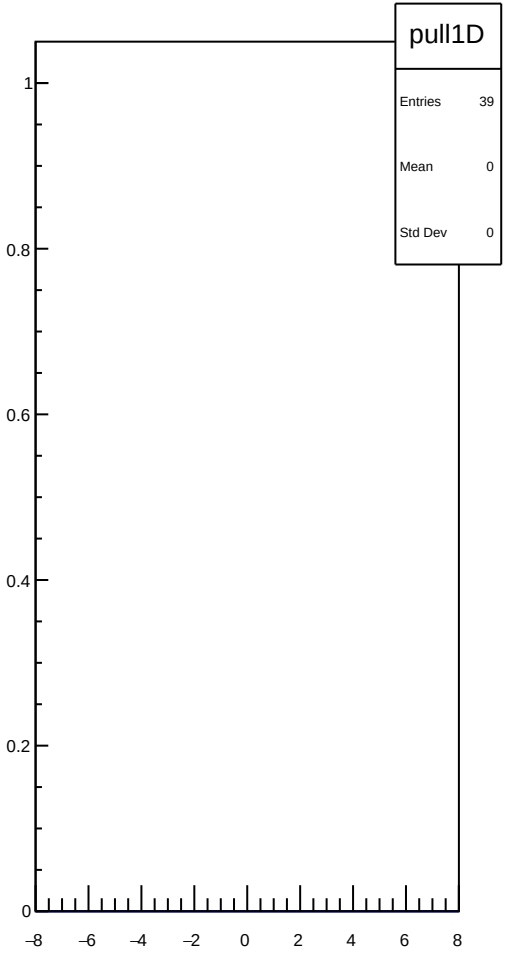

dit_atl2_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

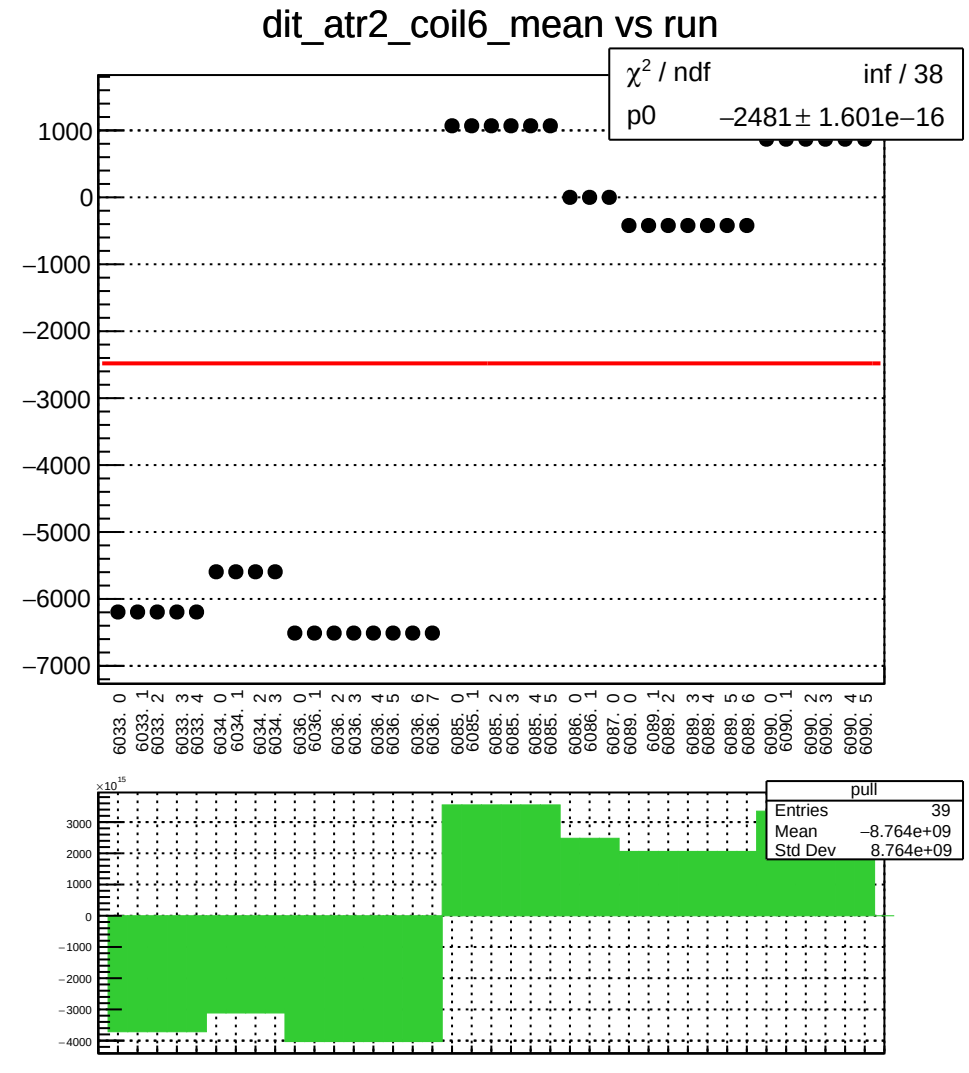

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

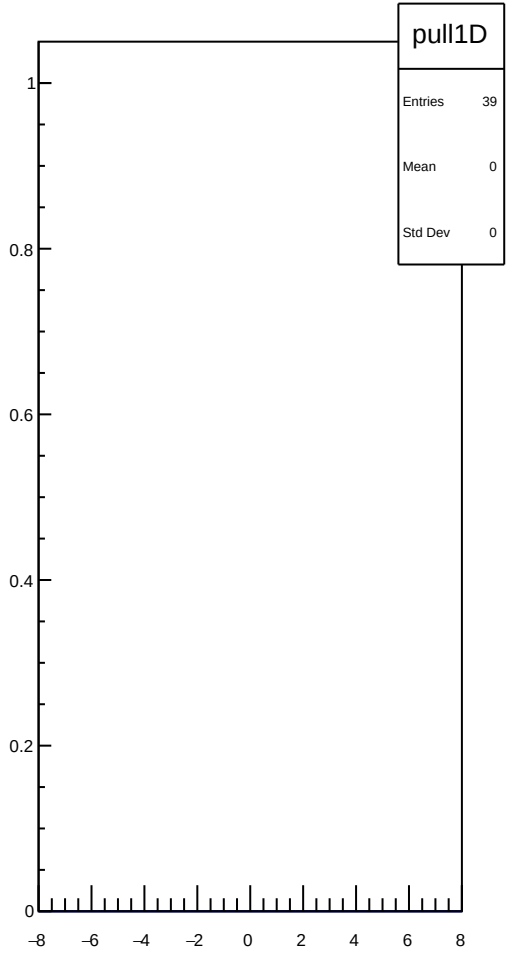

dit_atr1_coil6_mean vs run
χ² / ndf 3.811e+36 / 38
p0 551 ± 1.601e−16
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
pull
Entries 39
Mean 1.51e+08
Std Dev 1.51e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

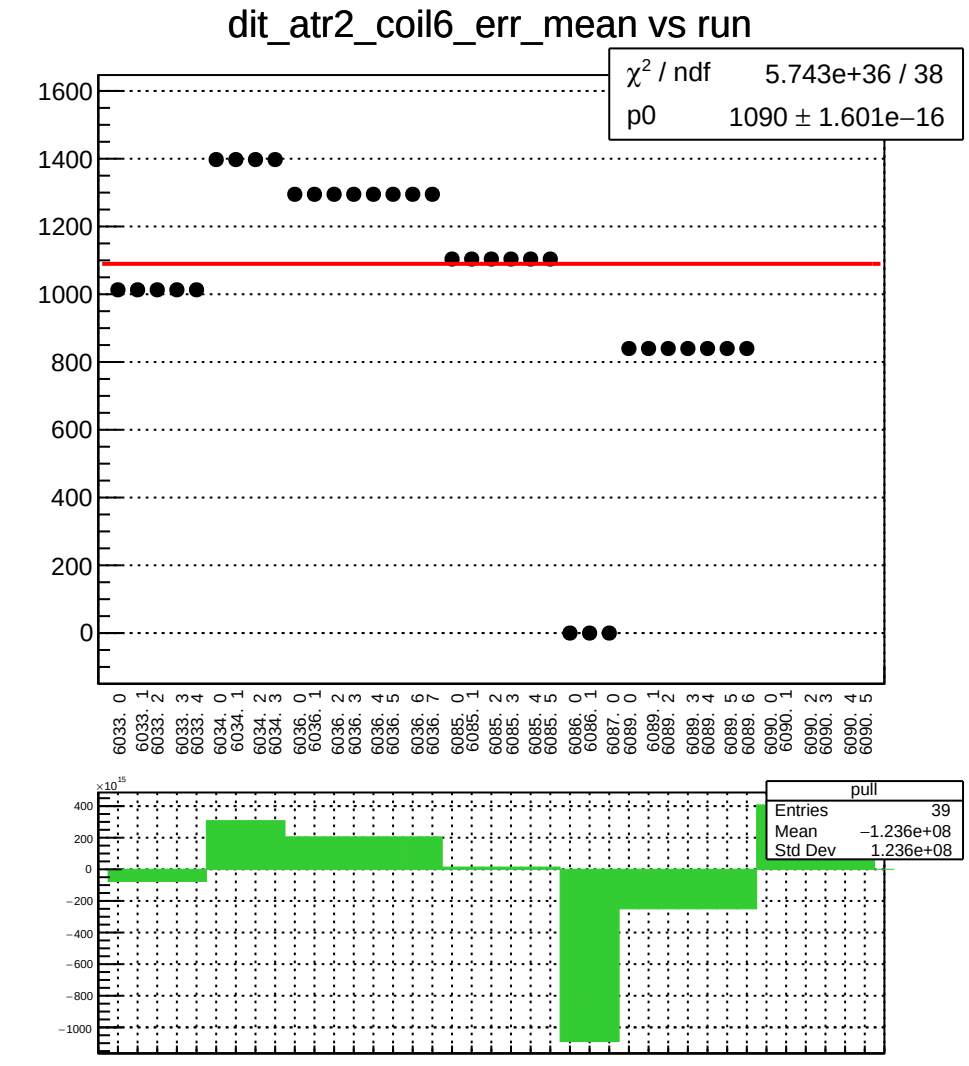

dit_atr1_coil6_err_mean vs run
χ² / ndf 1.687e+35 / 38
p0 225.8 ± 1.601e−16
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
0
−50
−100
−150
−200
pull
Entries 39
Mean −1.183e+08
Std Dev 1.183e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

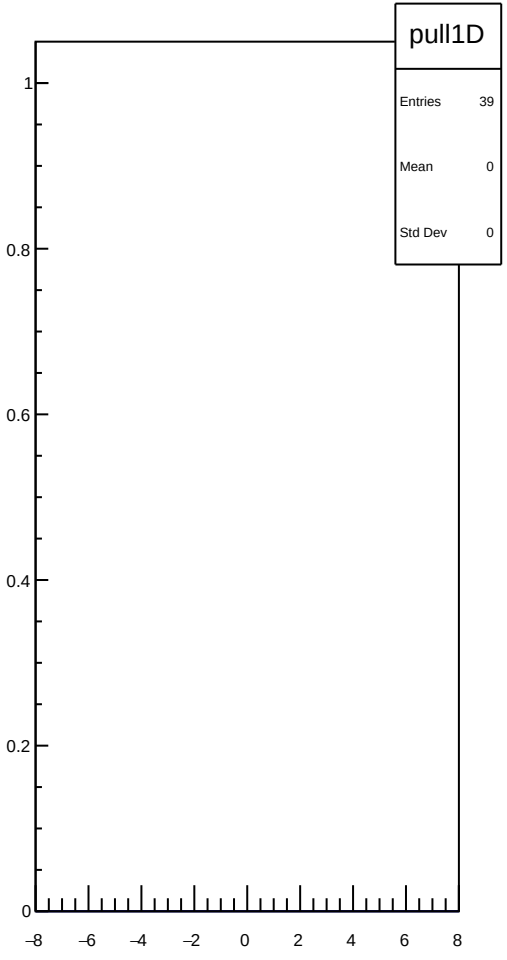

dit_atr1_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

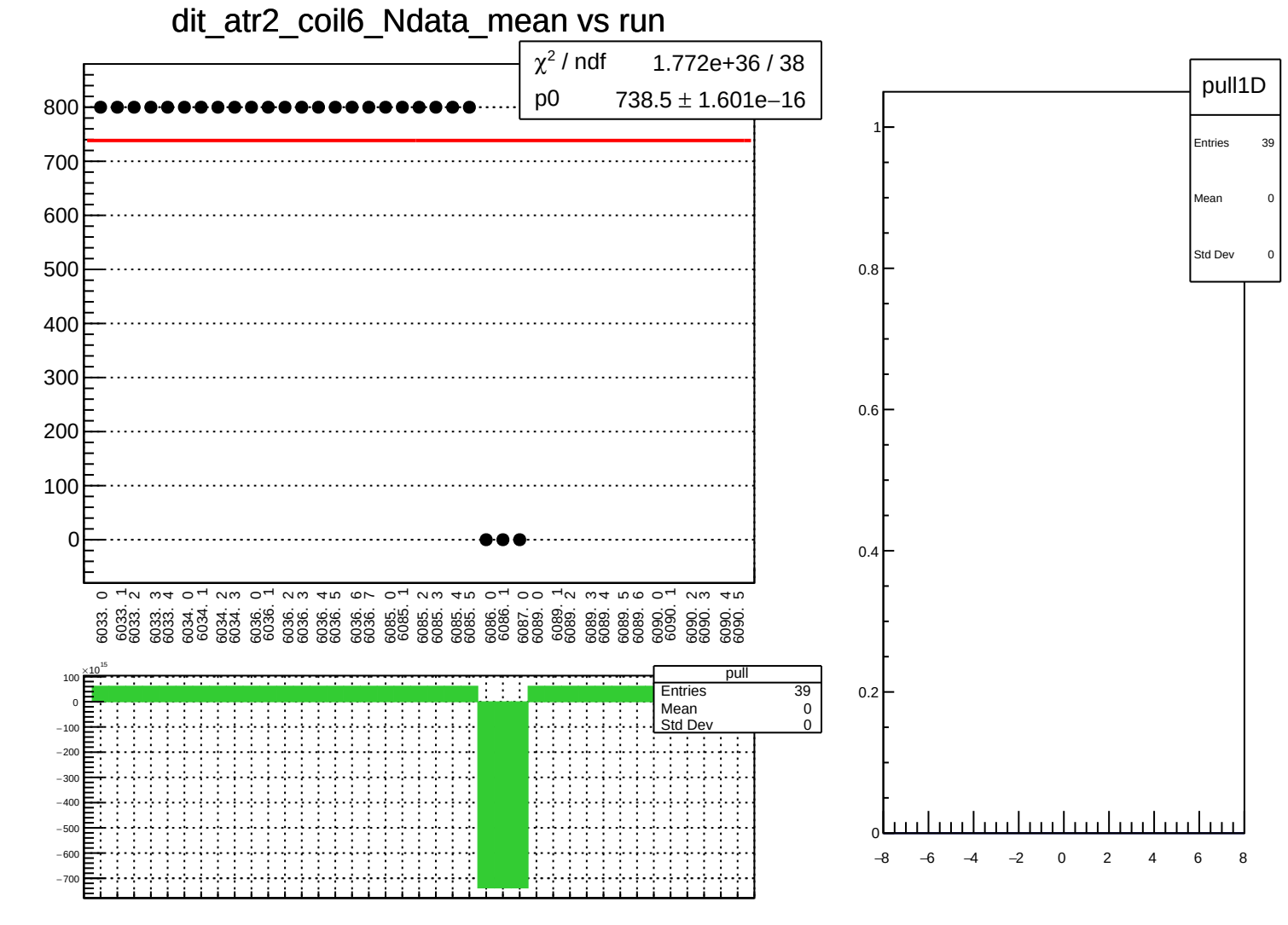

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

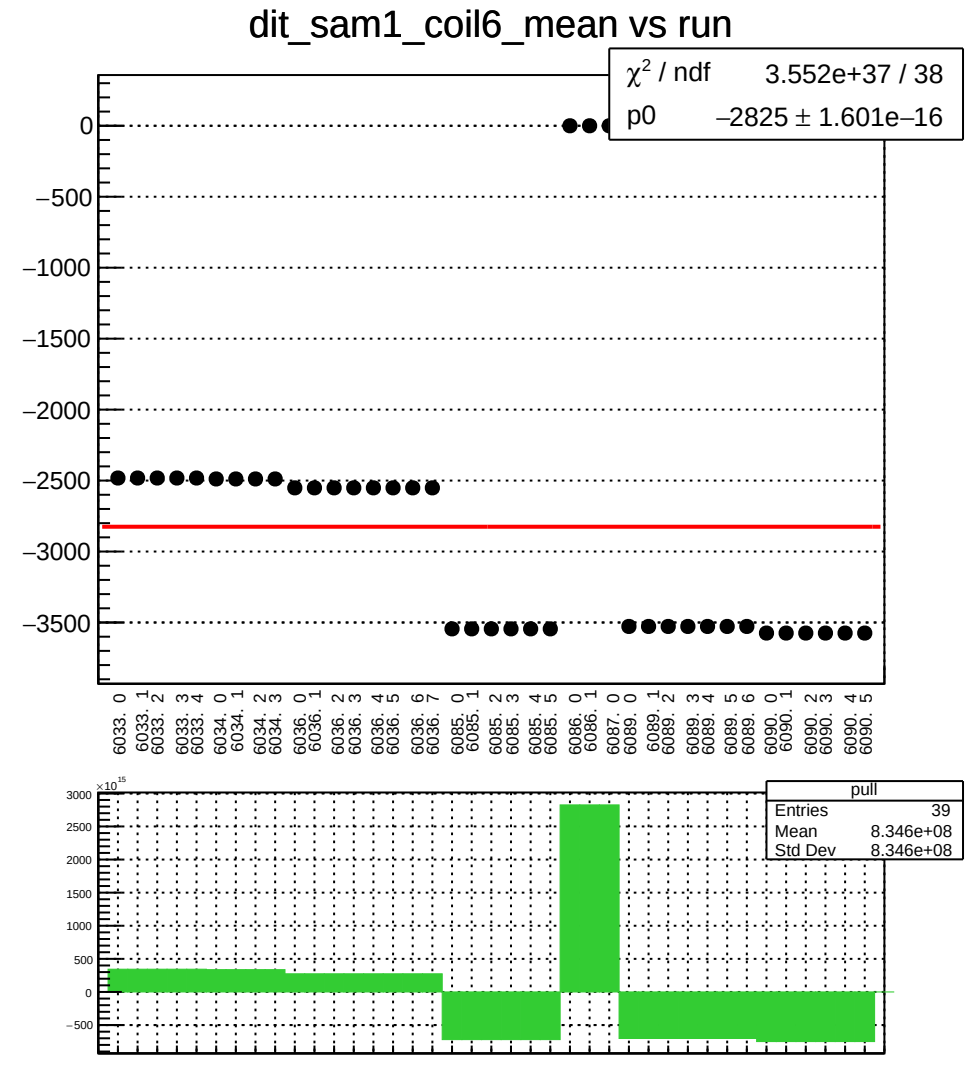

dit_atr2_coil6_mean vs run
χ² / ndf inf / 38
p0 −2481 ± 1.601e−16
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean −8.764e+09
Std Dev 8.764e+09

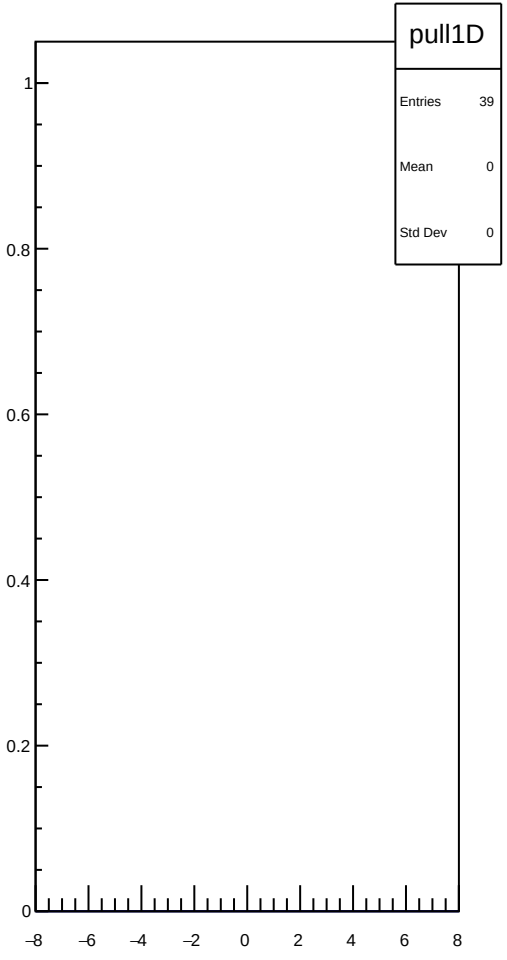

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

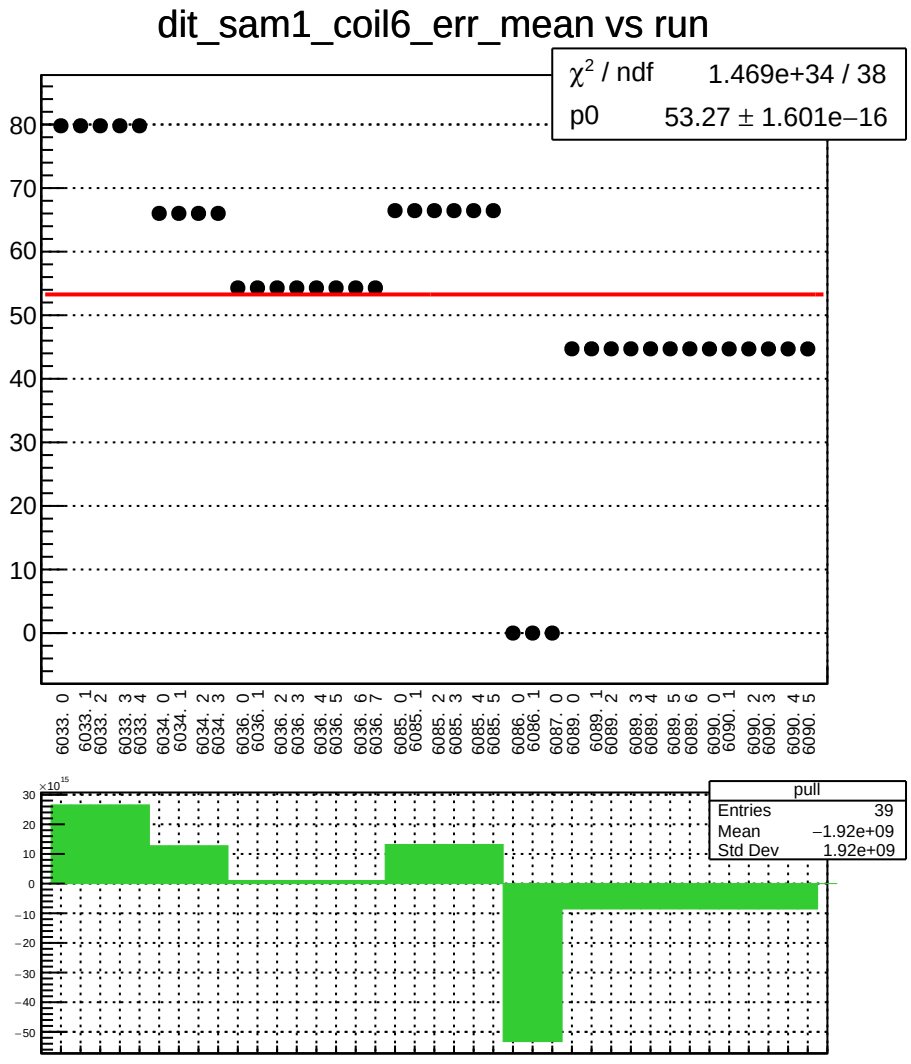

dit_atr2_coil6_err_mean vs run
χ² / ndf 5.743e+36 / 38
p0 1090 ± 1.601e−16
1600
1400
1200
1000
800
600
400
200
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 39
Mean −1.236e+08
Std Dev 1.236e+08

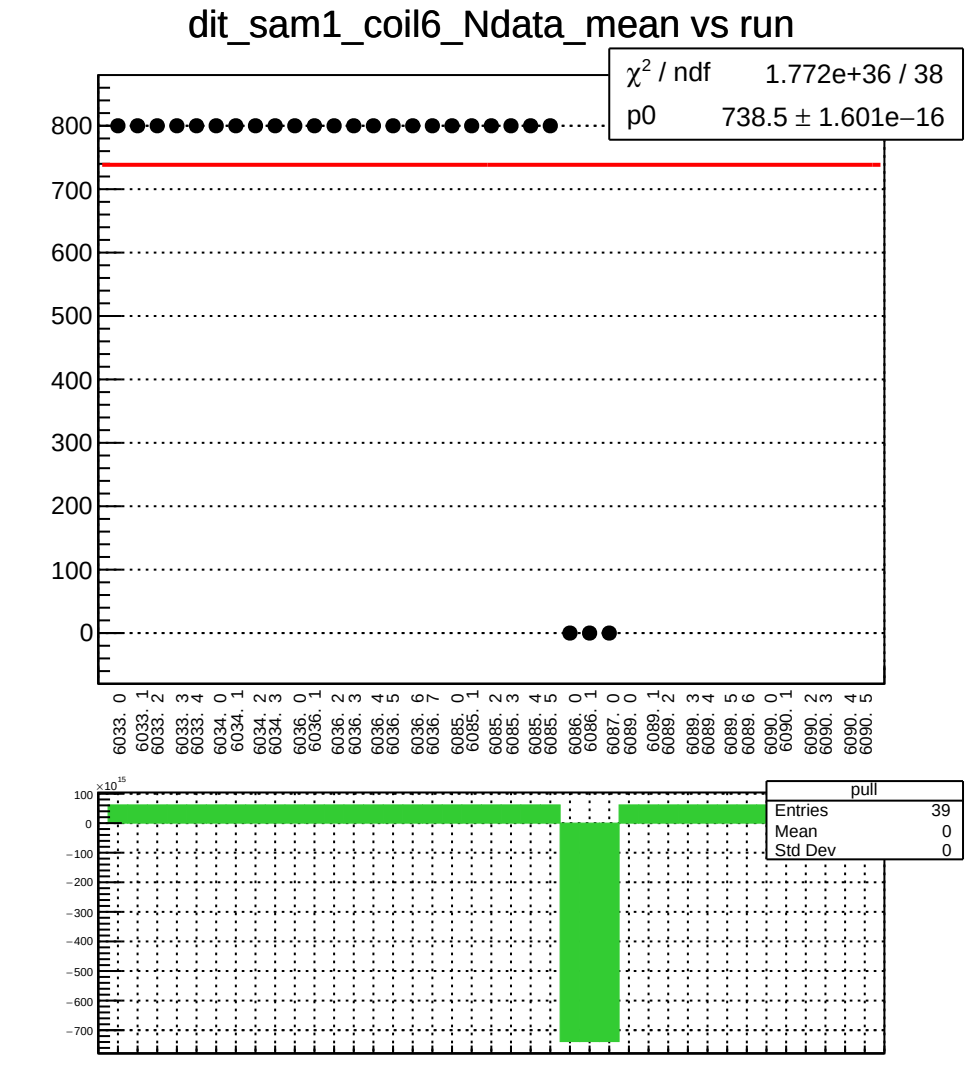

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

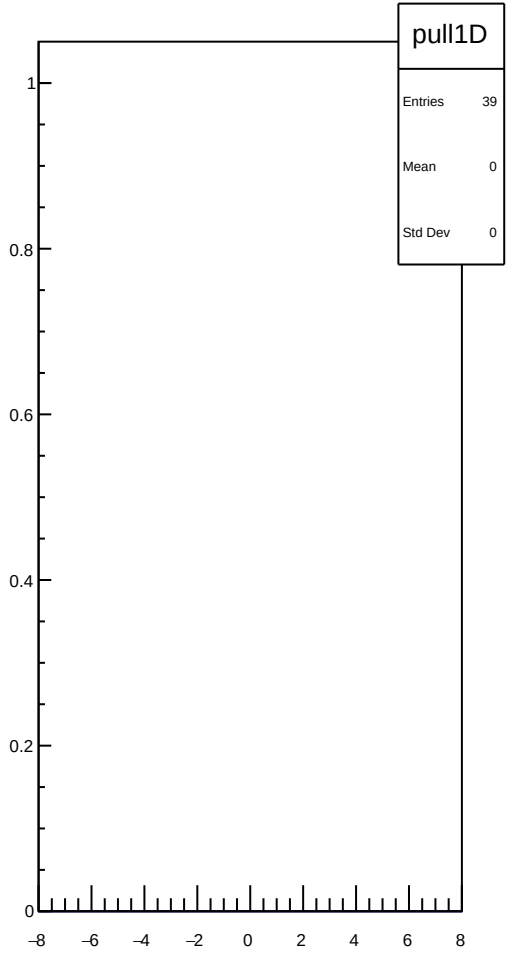

dit_atr2_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

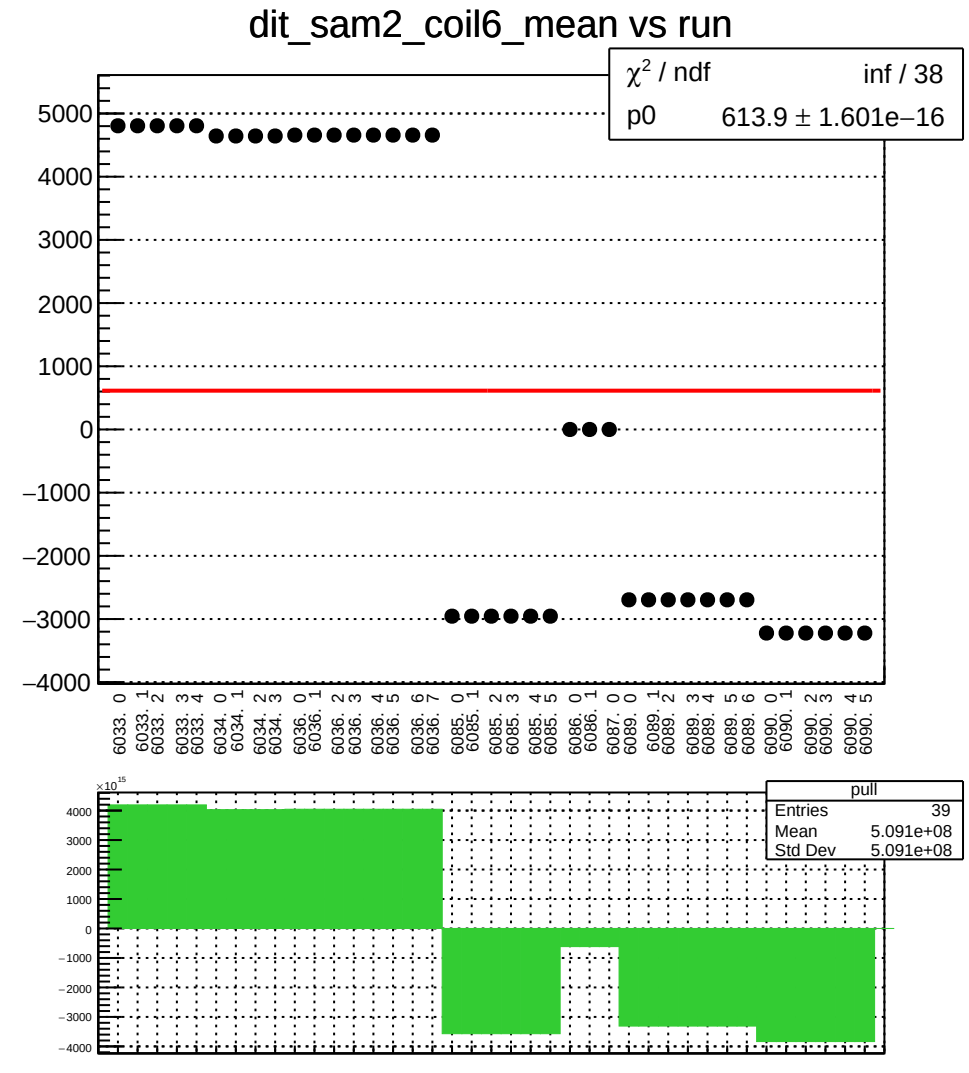

dit_sam1_coil6_mean vs run
χ² / ndf 3.552e+37 / 38
p0 −2825 ± 1.601e−16
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
3000
2500
2000
1500
1000
500
0
−500
pull
Entries 39
Mean 8.346e+08
Std Dev 8.346e+08

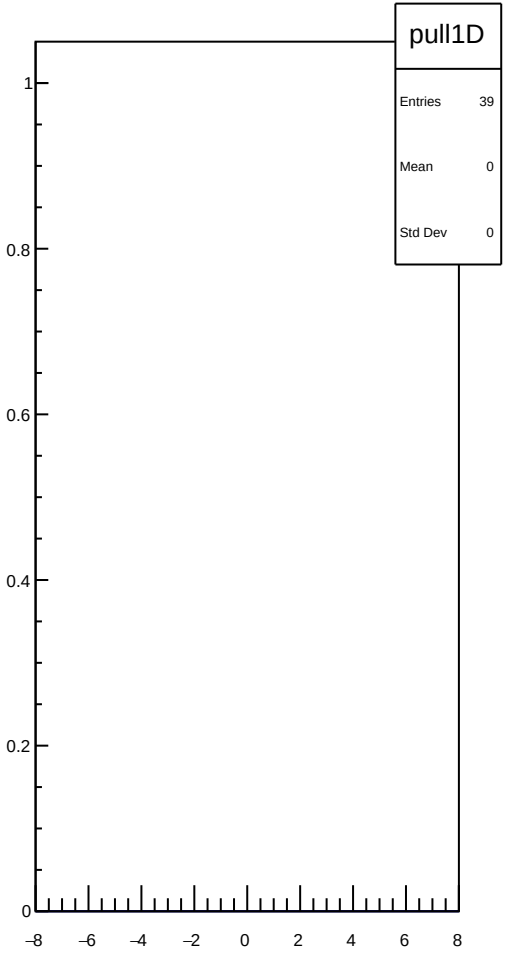

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

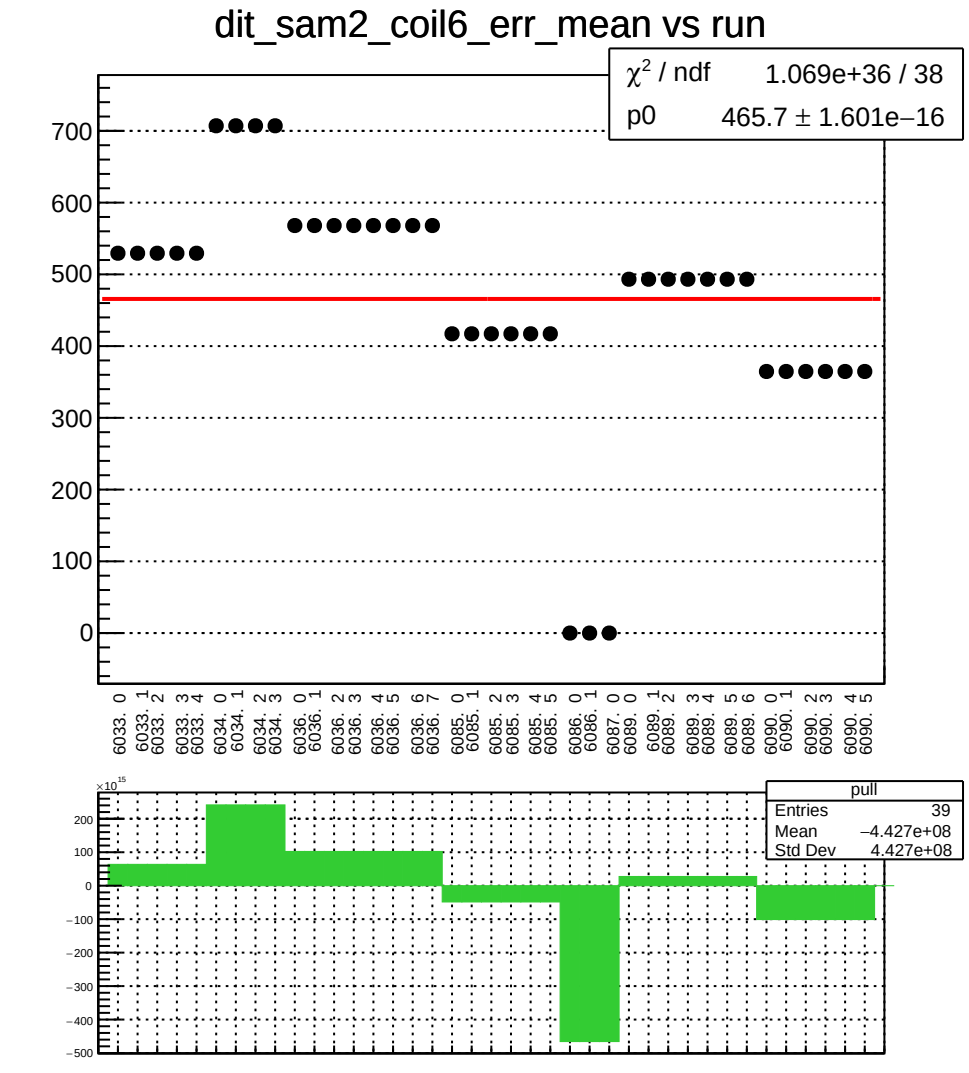

dit_sam1_coil6_err_mean vs run
χ² / ndf 1.469e+34 / 38
p0 53.27 ± 1.601e−16
80
70
60
50
40
30
20
10
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
30
20
10
0
−10
−20
−30
−40
−50
pull
Entries 39
Mean −1.92e+09
Std Dev 1.92e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

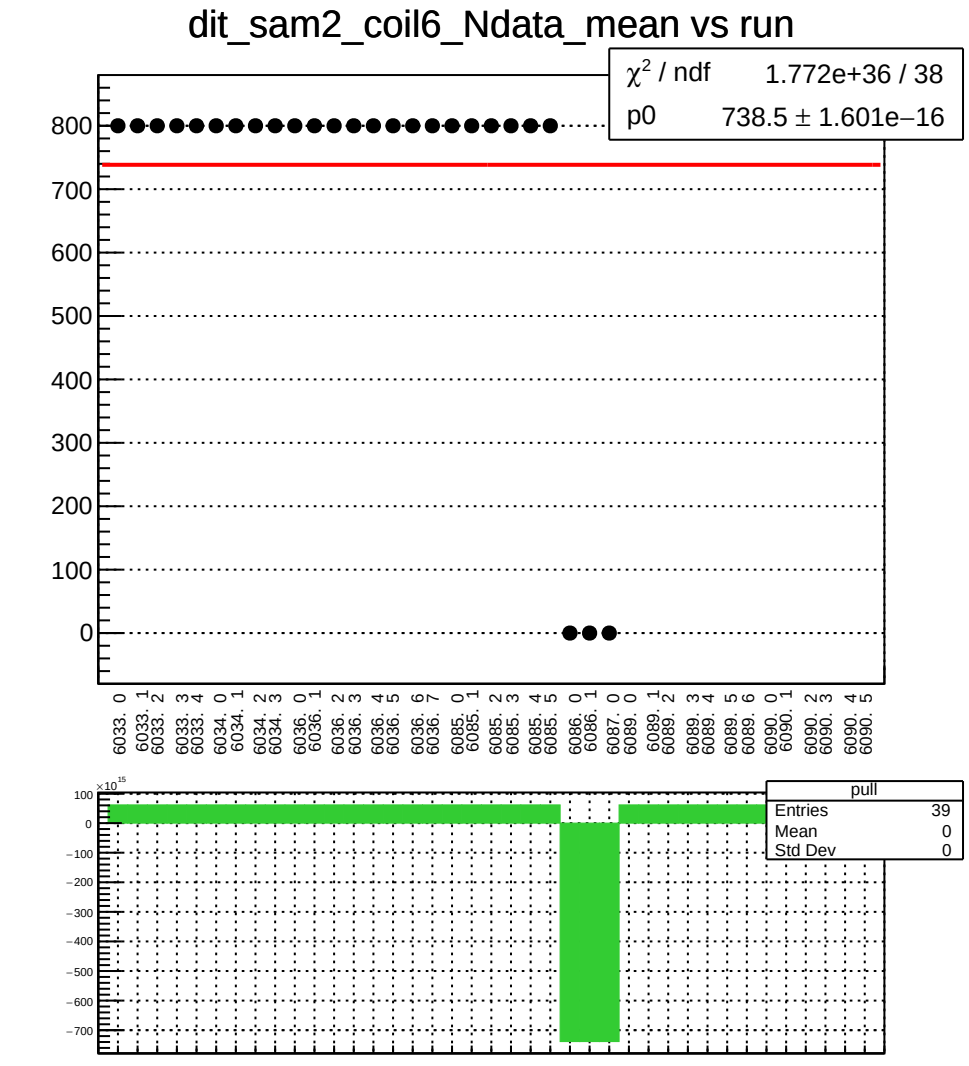

dit_sam1_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

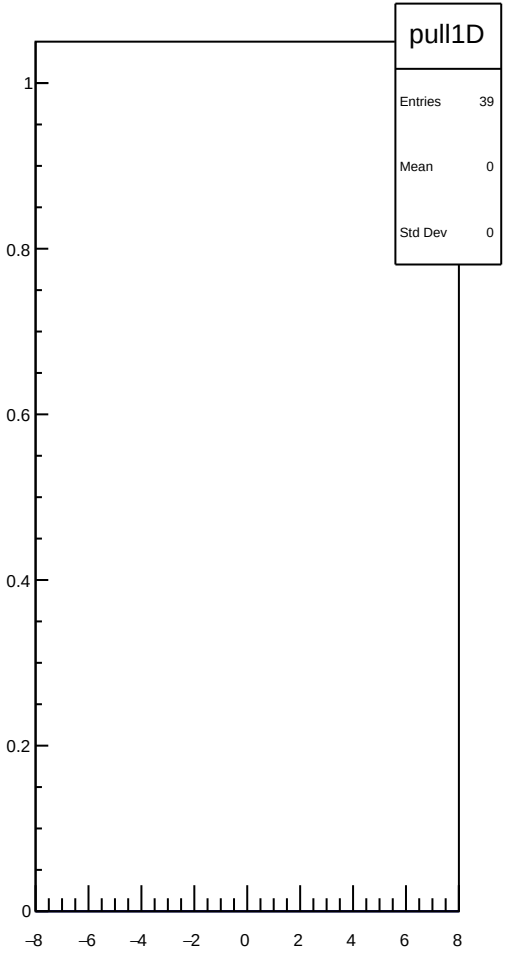

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

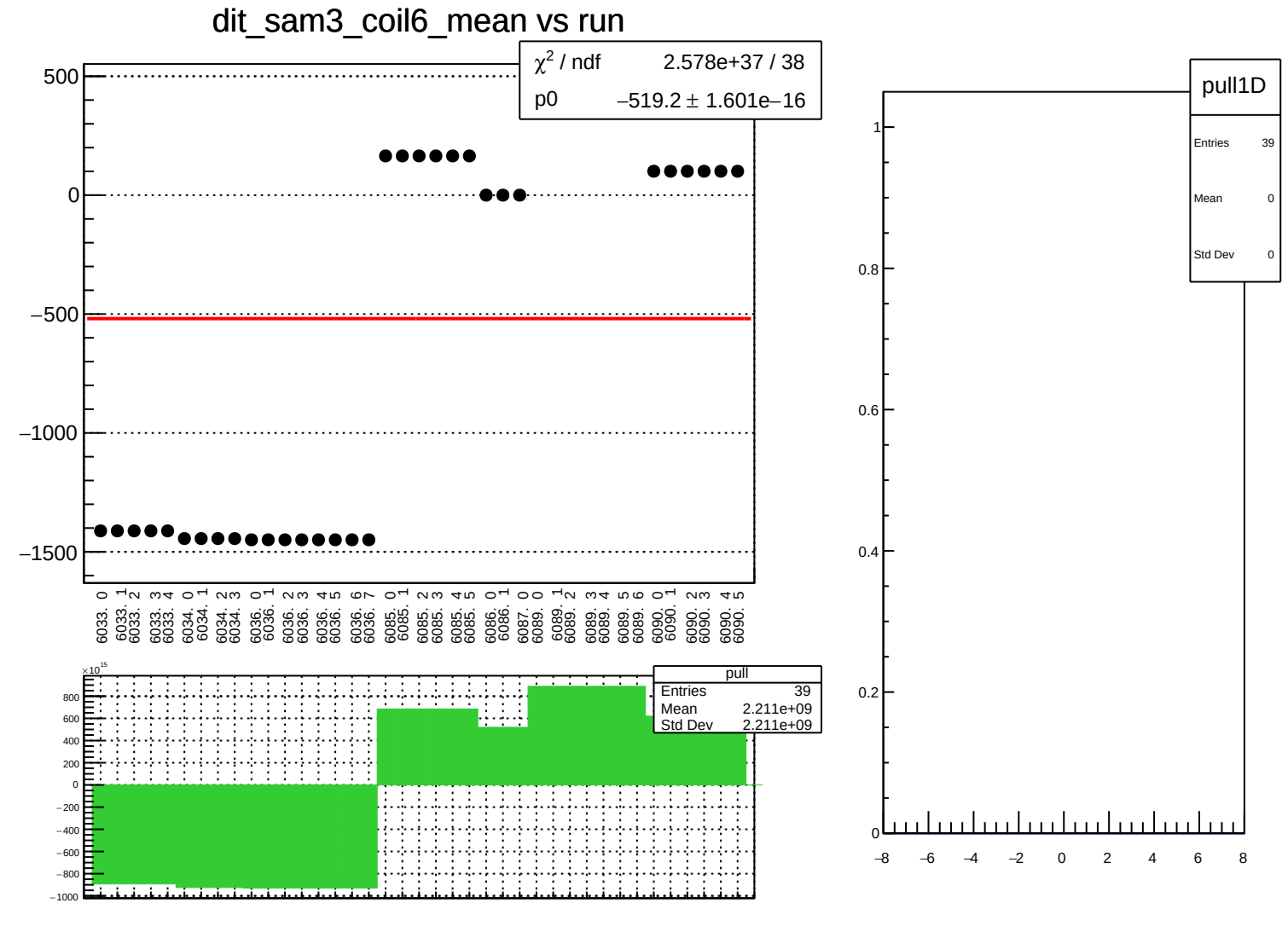

dit_sam2_coil6_mean vs run
χ² / ndf inf / 38
p0 613.9 ± 1.601e−16
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 39
Mean 5.091e+08
Std Dev 5.091e+08

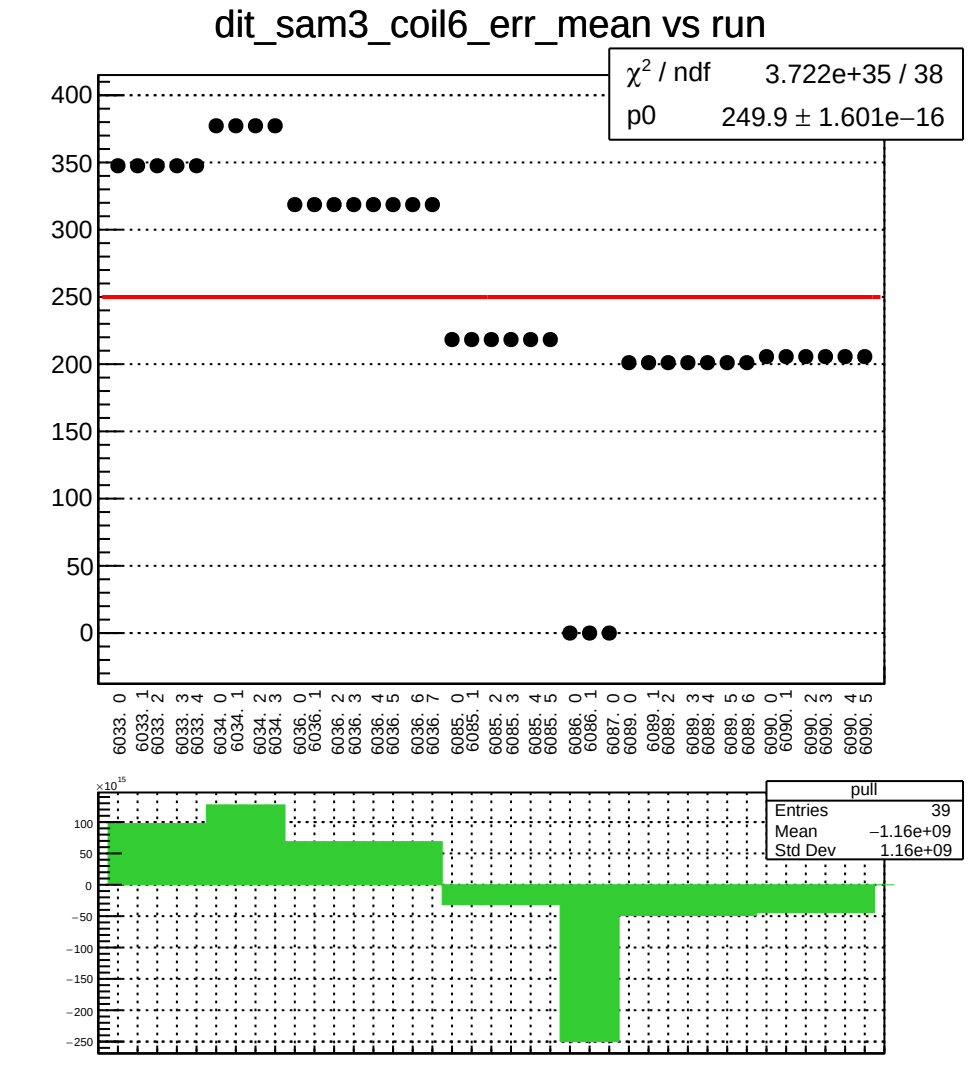

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

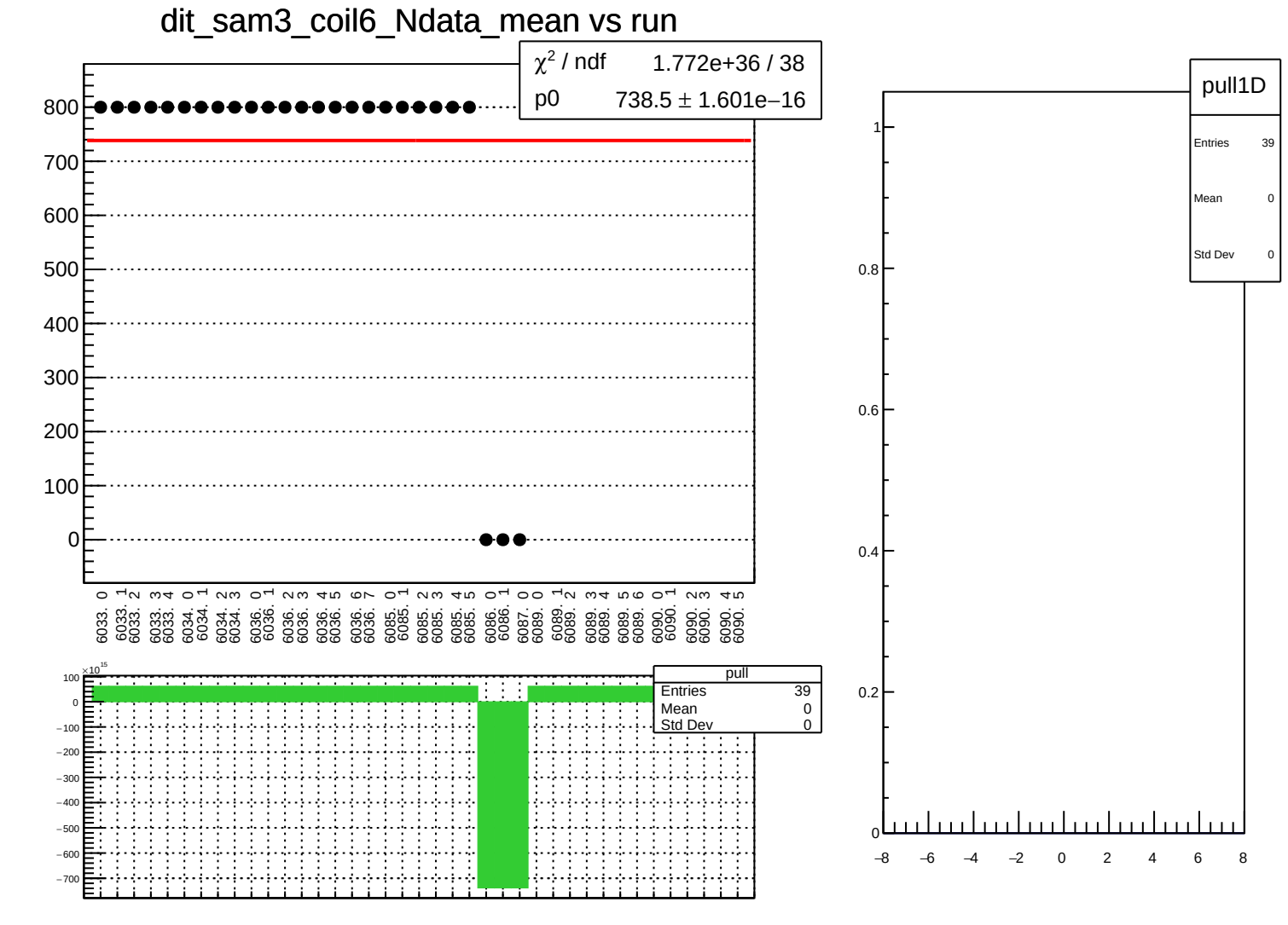

dit_sam2_coil6_err_mean vs run
χ² / ndf 1.069e+36 / 38
p0 465.7 ± 1.601e−16
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
100
0
−100
−200
−300
−400
−500
pull
Entries 39
Mean −4.427e+08
Std Dev 4.427e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

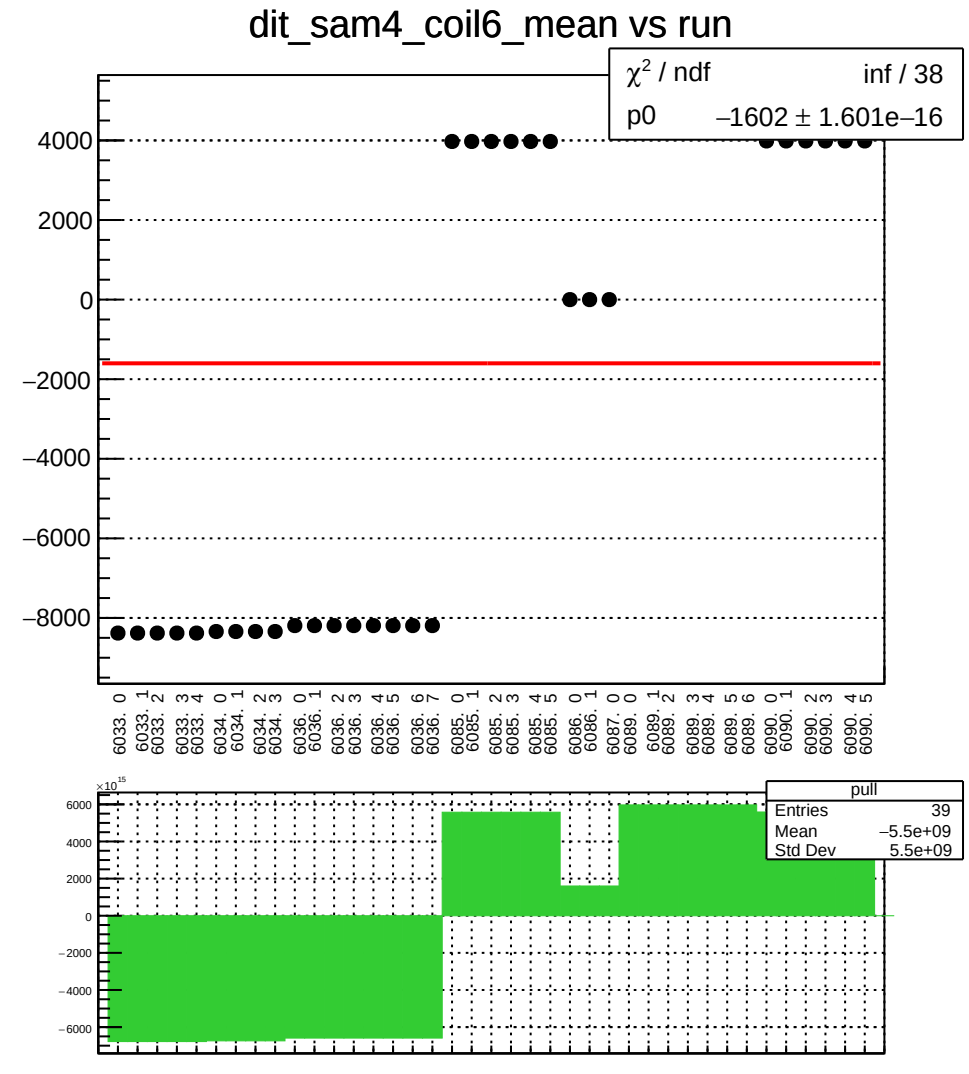

dit_sam2_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

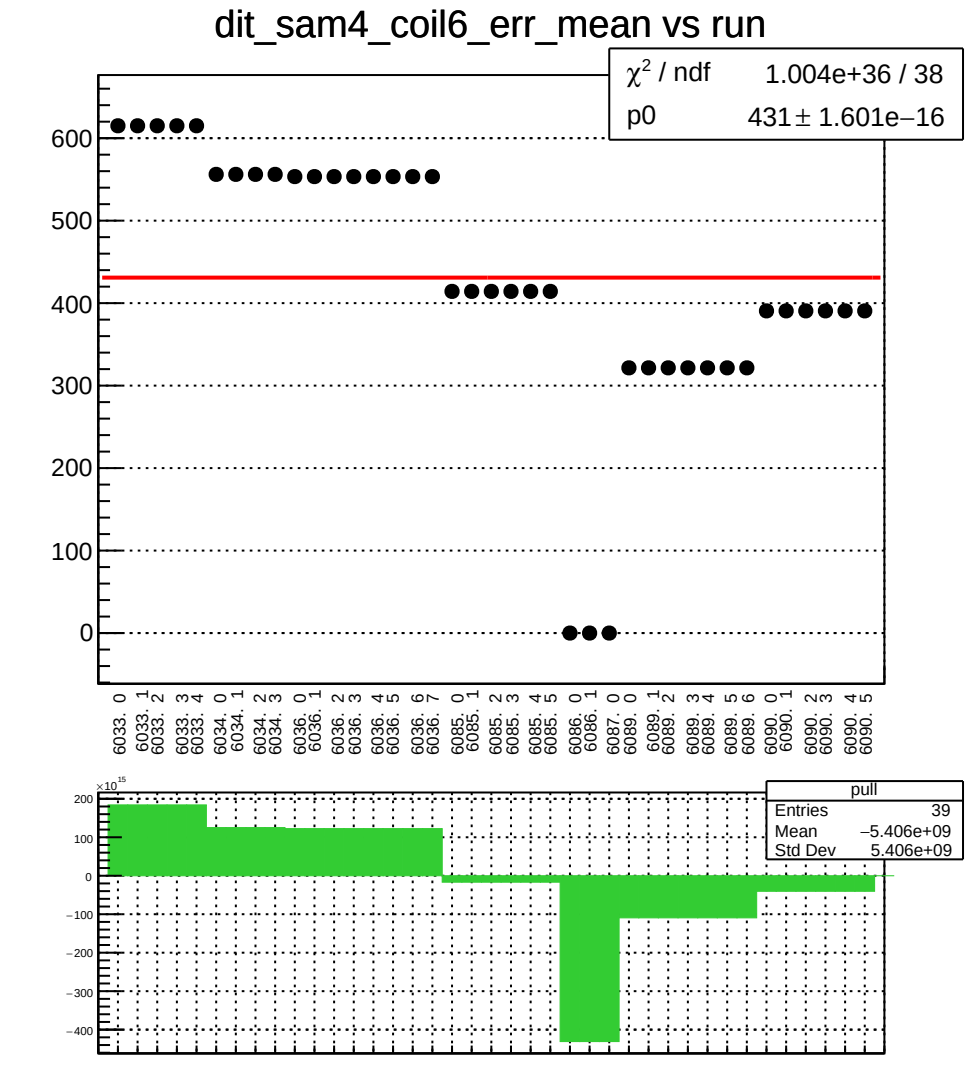

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

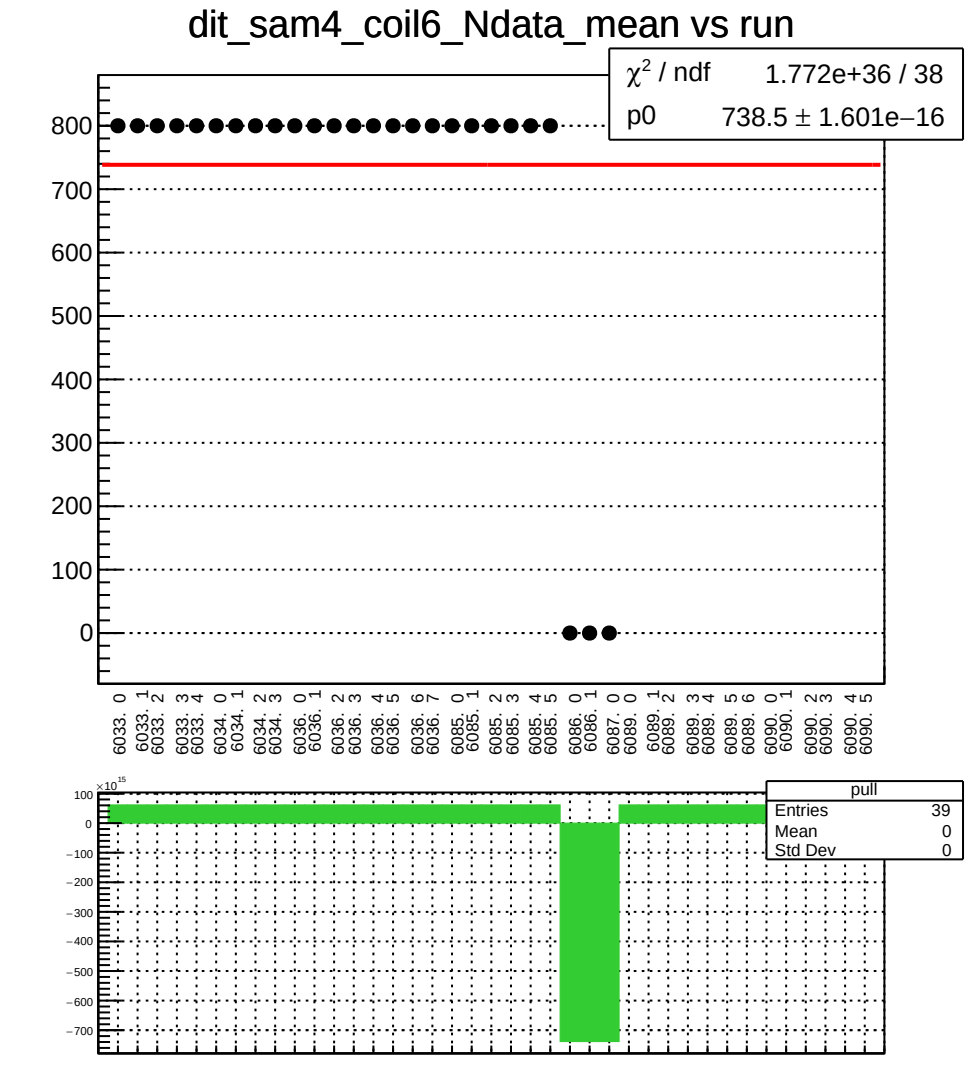

dit_sam3_coil6_mean vs run
χ² / ndf 2.578e+37 / 38
p0 –519.2 ± 1.601e–16
500
0
–500
–1000
–1500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
800
600
400
200
0
–200
–400
–600
–800
–1000
pull
Entries 39
Mean 2.211e+09
Std Dev 2.211e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

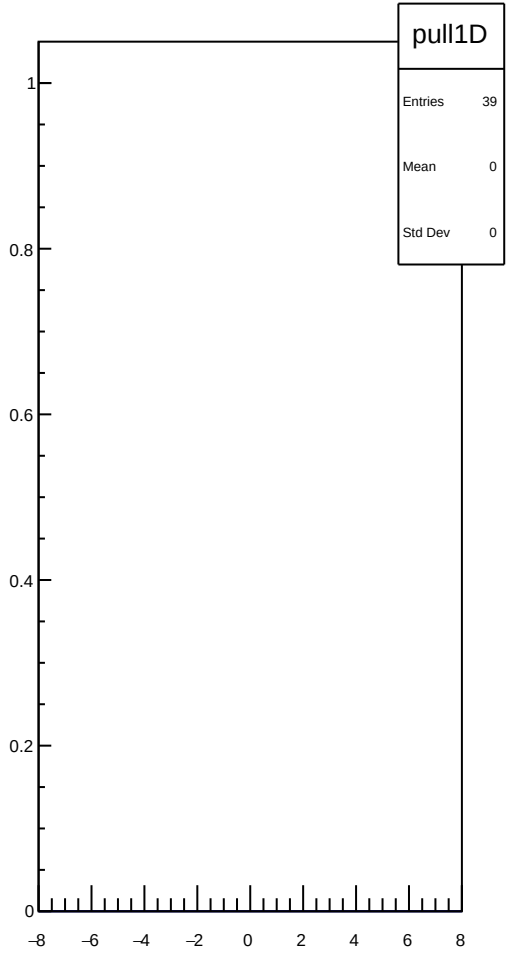

dit_sam3_coil6_err_mean vs run
χ² / ndf 3.722e+35 / 38
p0 249.9 ± 1.601e−16
400
350
300
250
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
50
0
−50
−100
−150
−200
−250
pull
Entries 39
Mean −1.16e+09
Std Dev 1.16e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

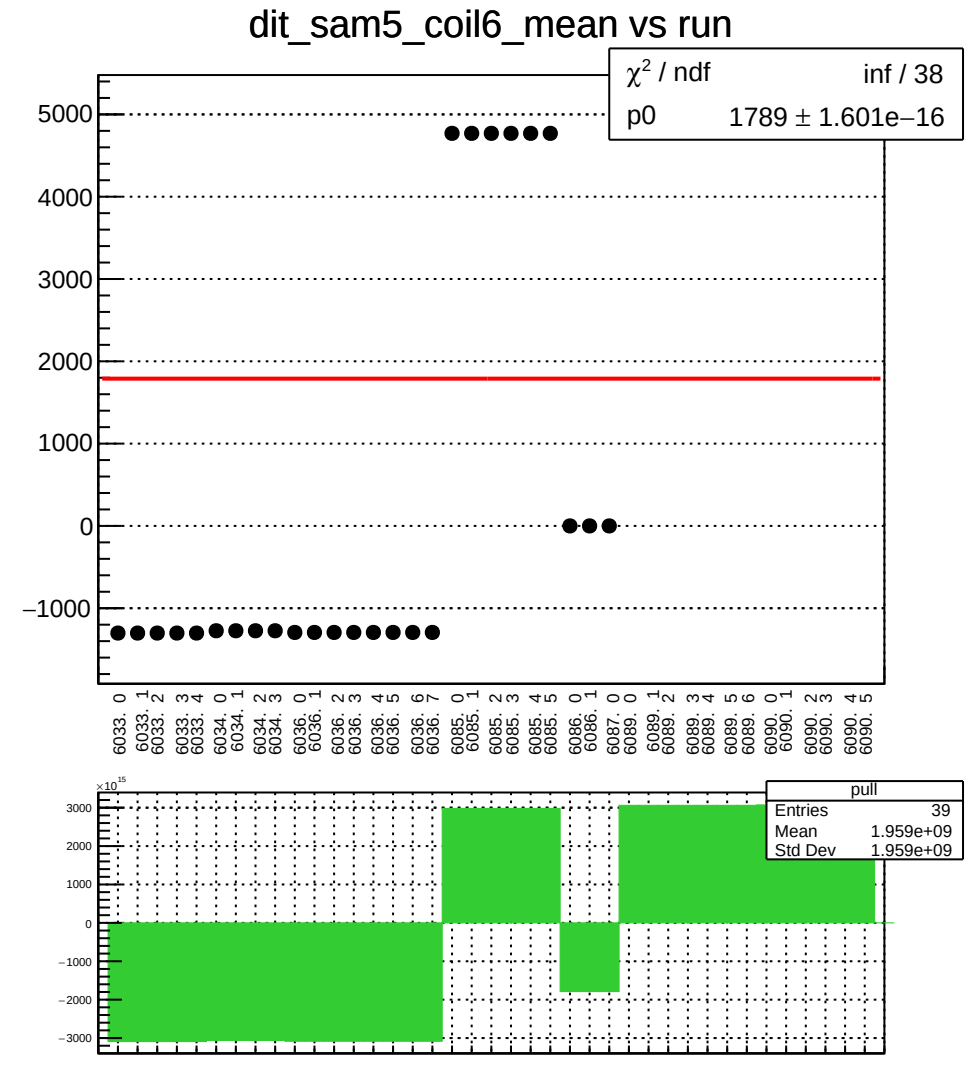

dit_sam3_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

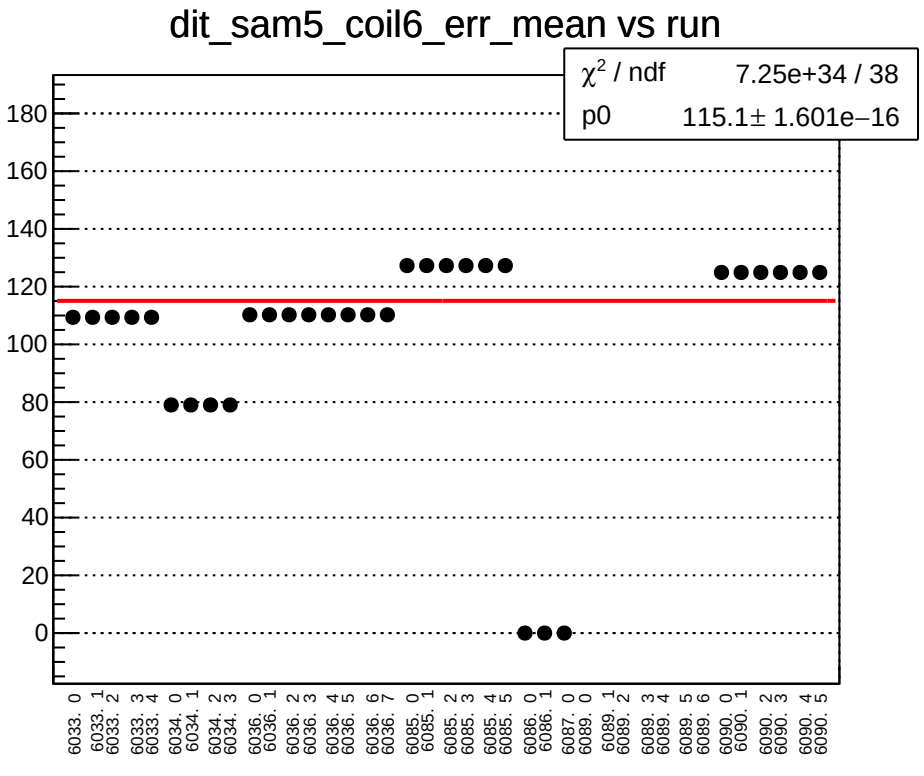

dit_sam4_coil6_mean vs run
χ² / ndf inf / 38
p0 –1602 ± 1.601e–16
4000
2000
0
–2000
–4000
–6000
–8000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
6000
4000
2000
0
–2000
–4000
–6000
pull
Entries 39
Mean –5.5e+09
Std Dev 5.5e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

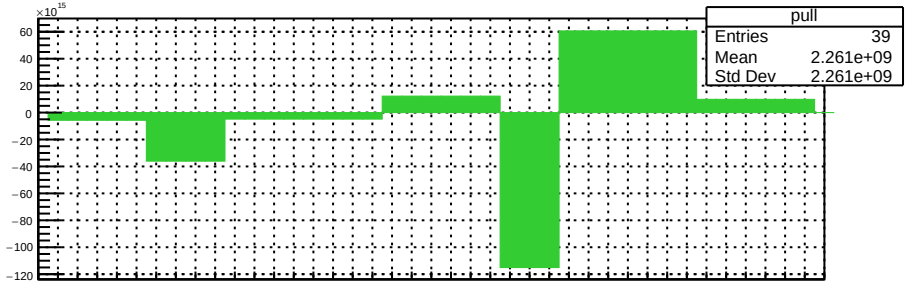

dit_sam4_coil6_err_mean vs run
χ² / ndf 1.004e+36 / 38
p0 431 ± 1.601e−16
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
200
100
0
−100
−200
−300
−400
pull
Entries 39
Mean −5.406e+09
Std Dev 5.406e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

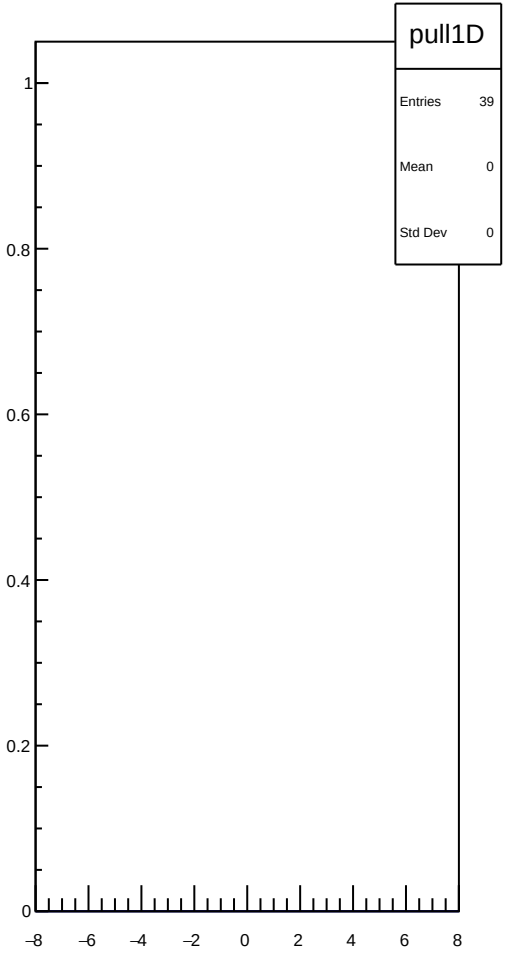

dit_sam4_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

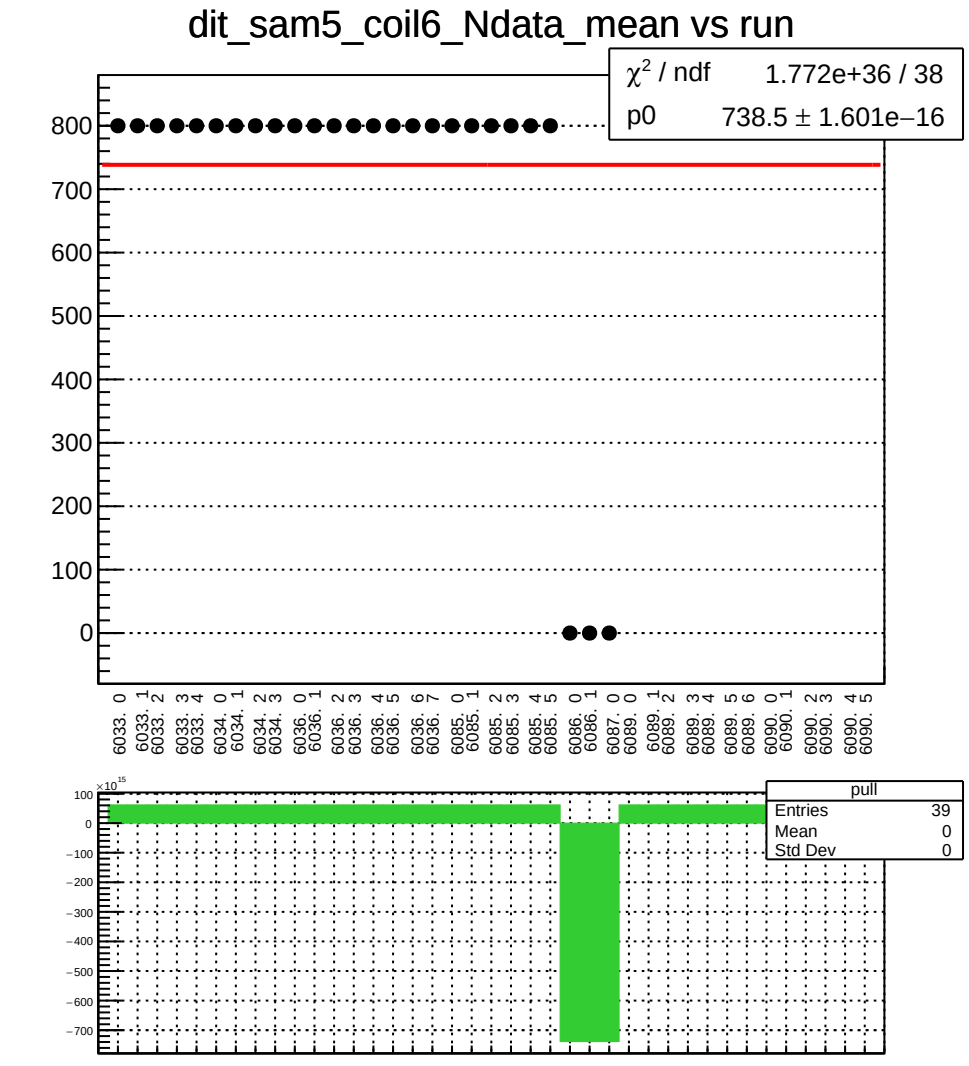

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

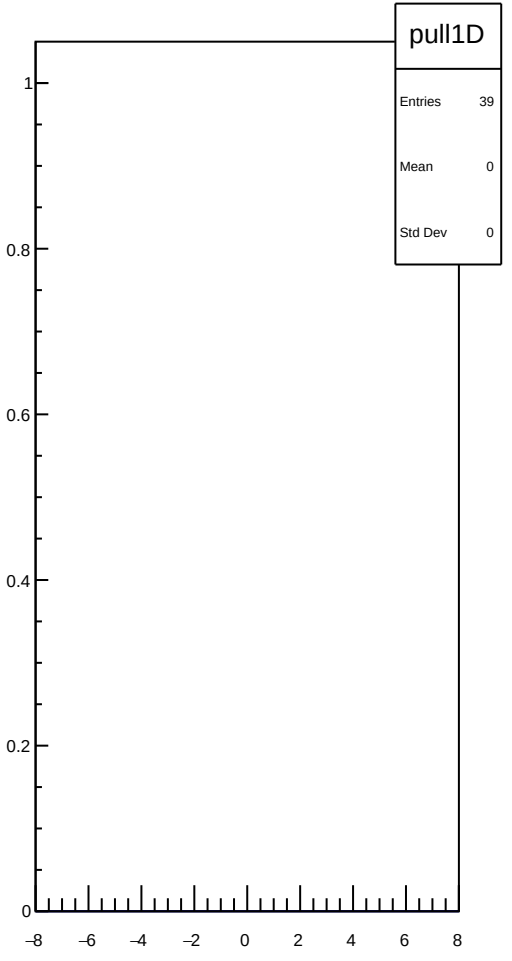

dit_sam5_coil6_mean vs run
χ² / ndf inf / 38
p0 1789 ± 1.601e−16
5000
4000
3000
2000
1000
0
−1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 39
Mean 1.959e+09
Std Dev 1.959e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

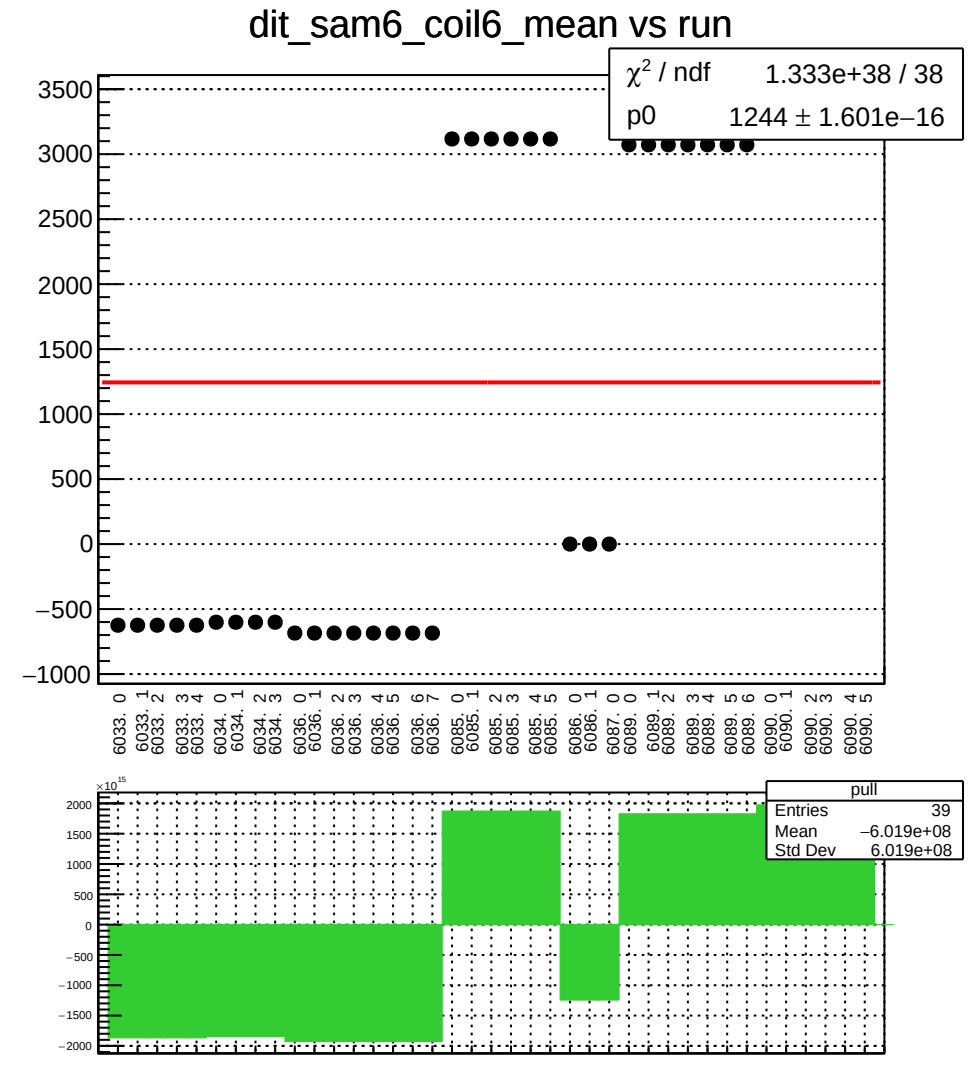

dit_sam5_coil6_err_mean vs run
χ² / ndf 7.25e+34 / 38
p0 115.1± 1.601e−16
180
160
140
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

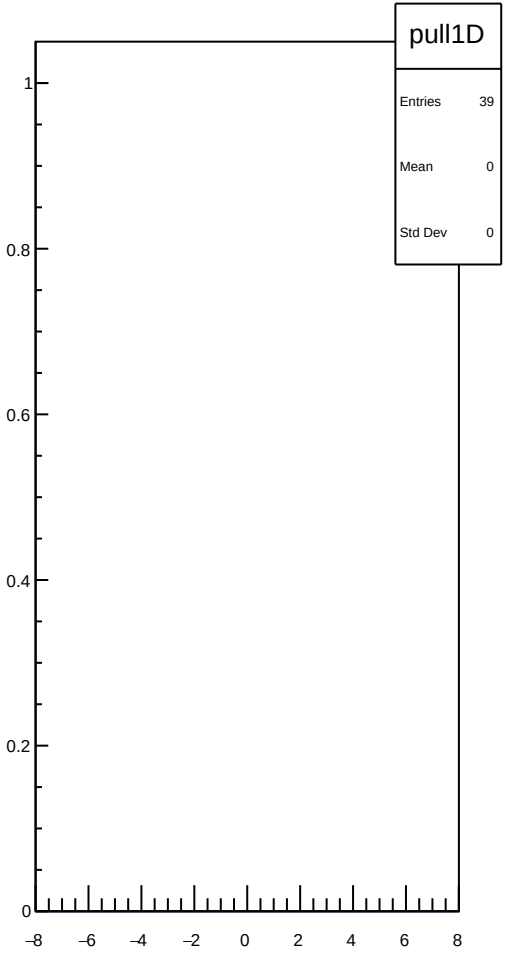

×10¹⁵
60
40
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 39
Mean 2.261e+09
Std Dev 2.261e+09

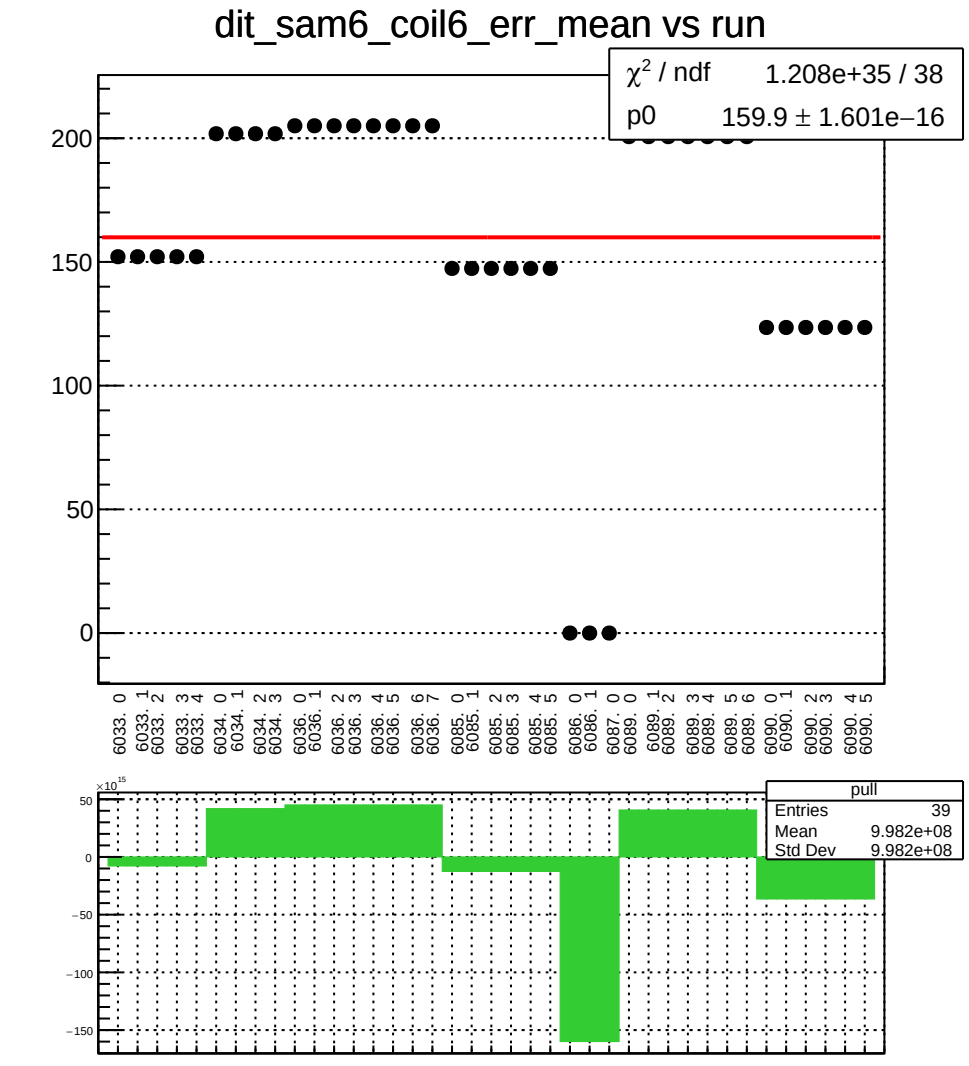

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

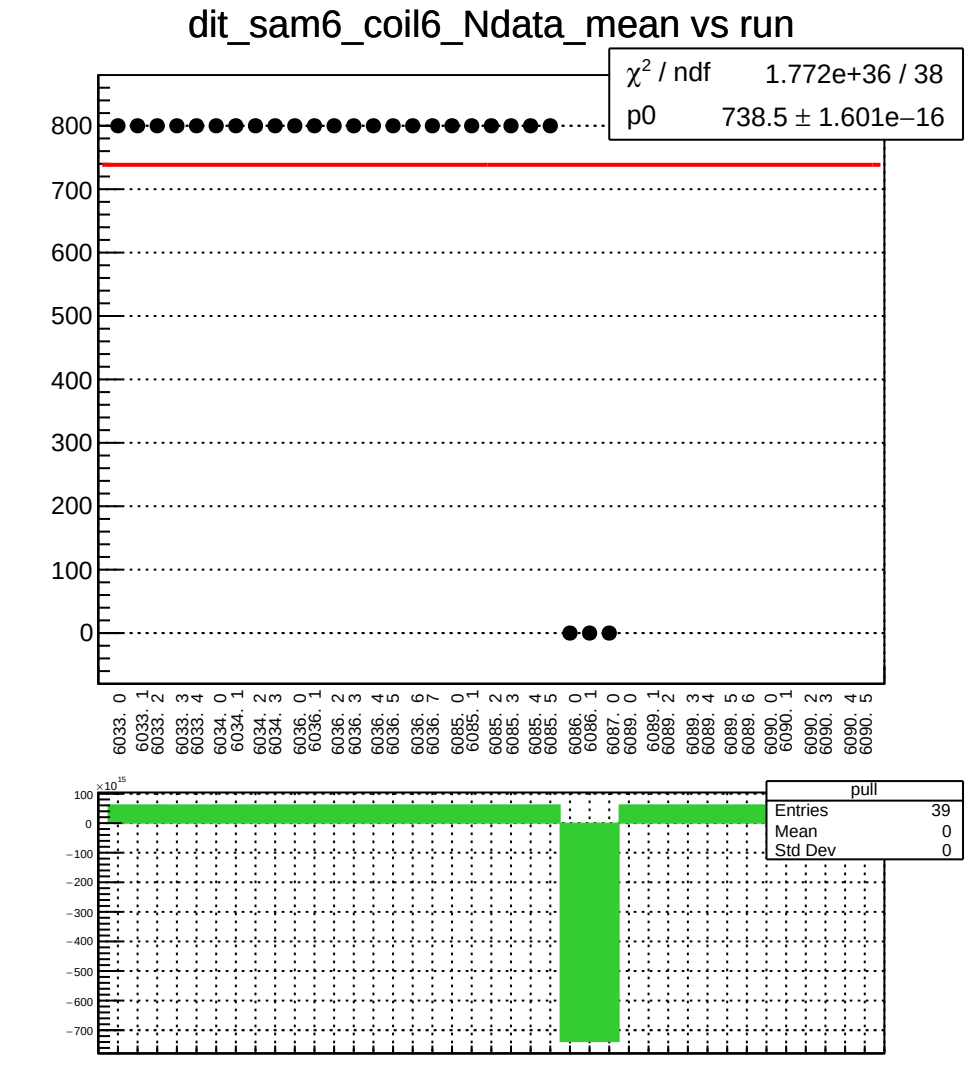

dit_sam5_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

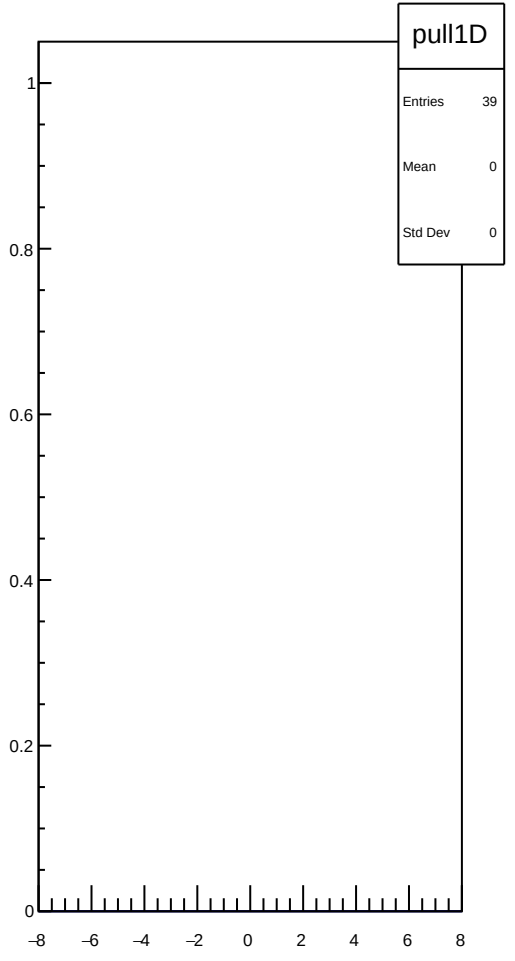

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

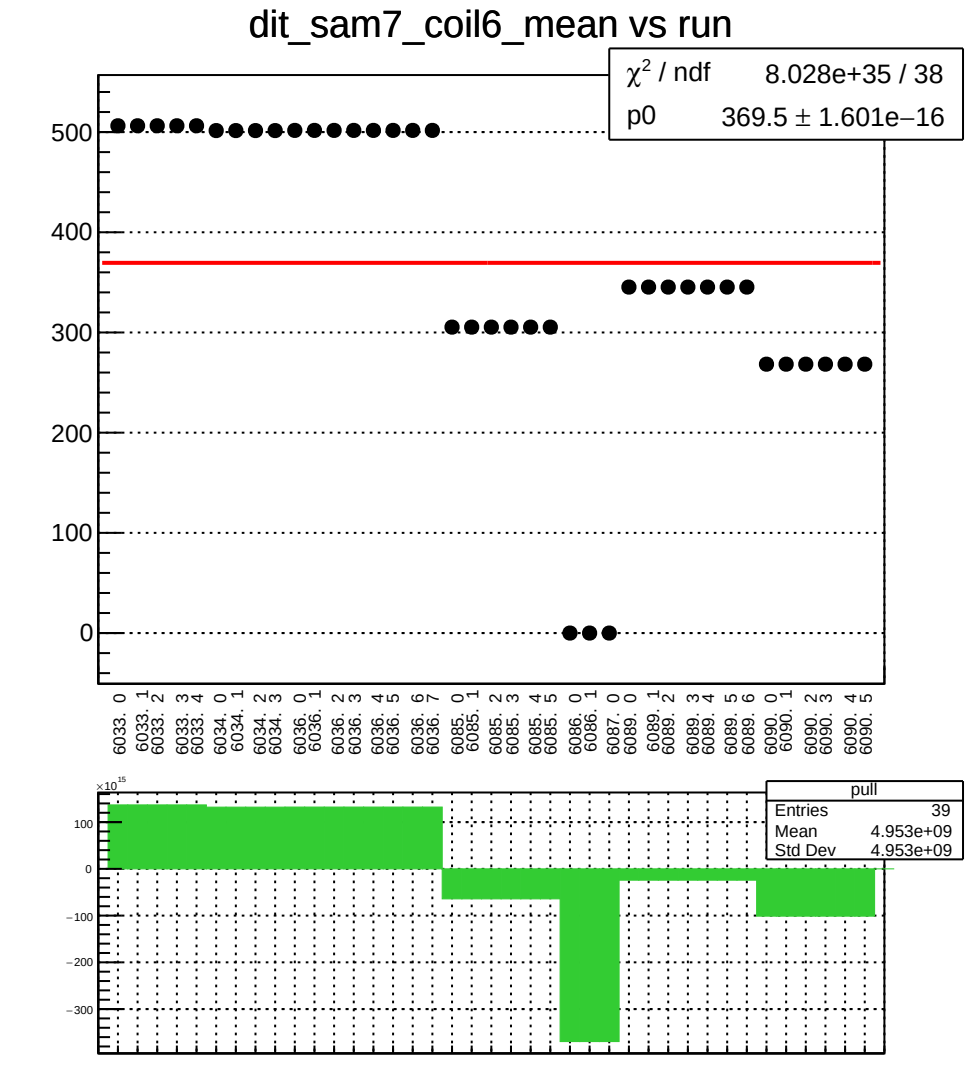

dit_sam6_coil6_mean vs run
χ² / ndf 1.333e+38 / 38
p0 1244 ± 1.601e−16
3500
3000
2500
2000
1500
1000
500
0
−500
−1000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 39
Mean −6.019e+08
Std Dev 6.019e+08

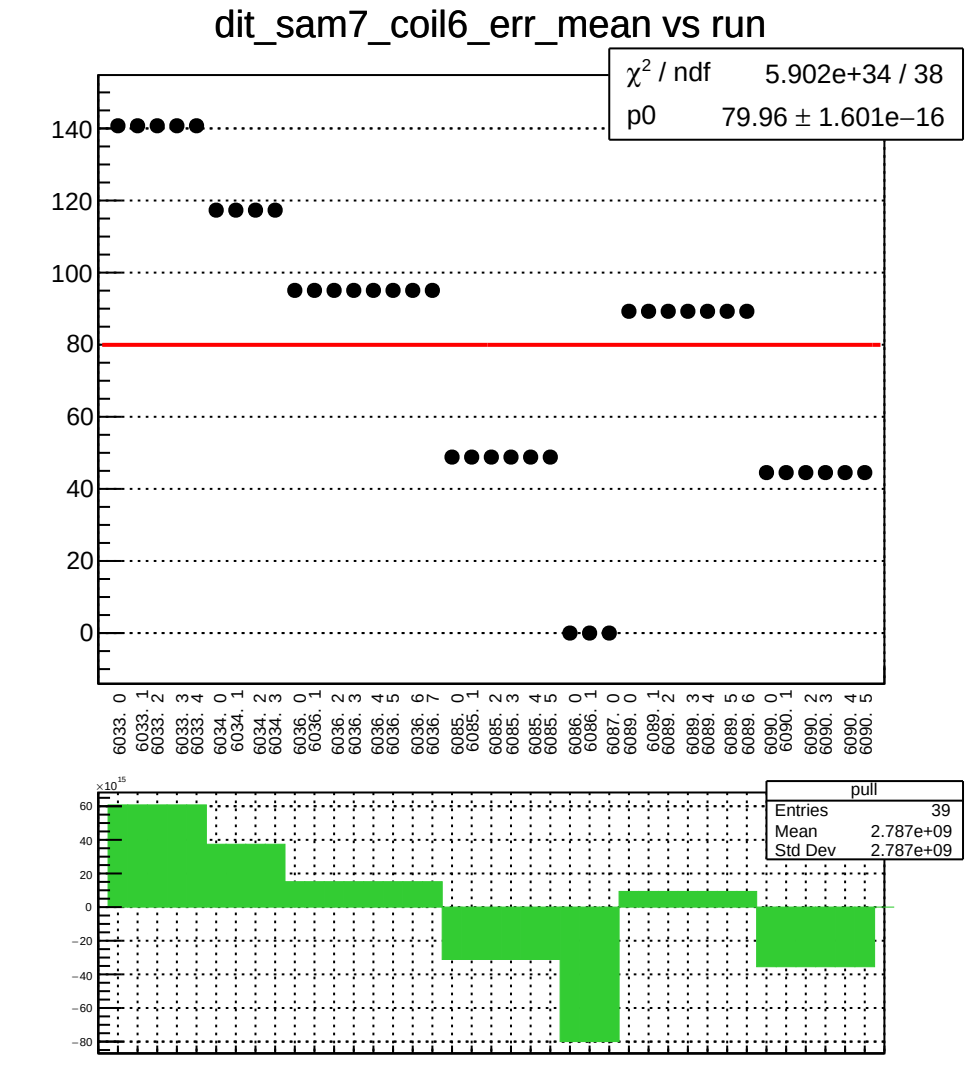

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

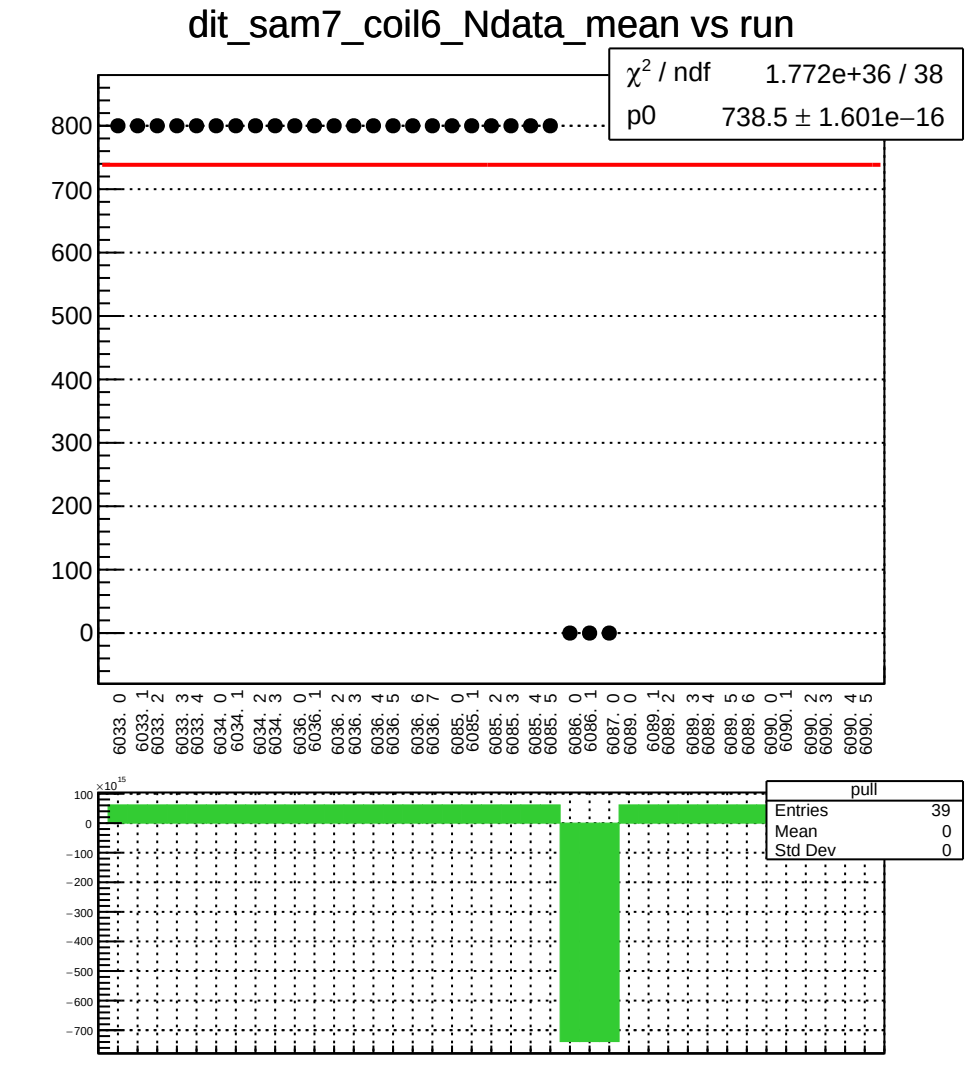

dit_sam6_coil6_err_mean vs run
χ² / ndf 1.208e+35 / 38
p0 159.9 ± 1.601e−16
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
50
0
−50
−100
−150
pull
Entries 39
Mean 9.982e+08
Std Dev 9.982e+08
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

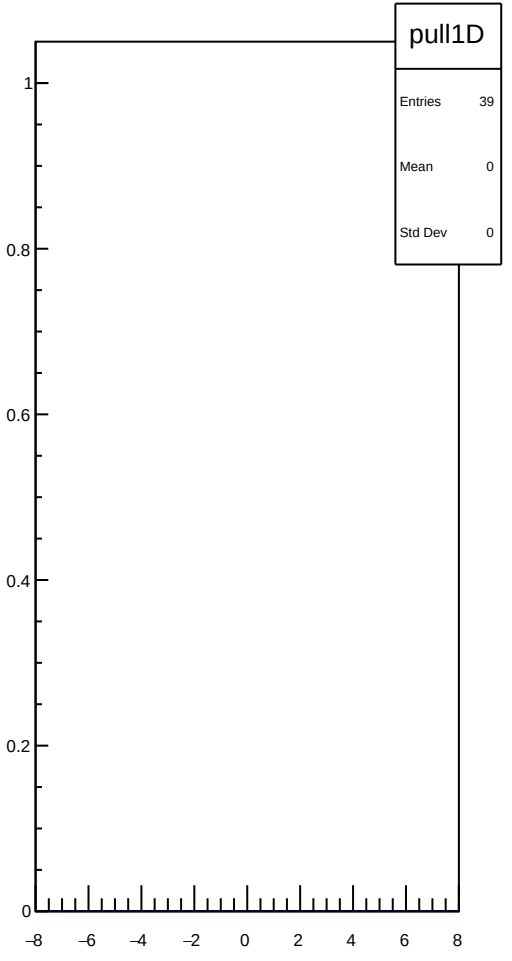

dit_sam6_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

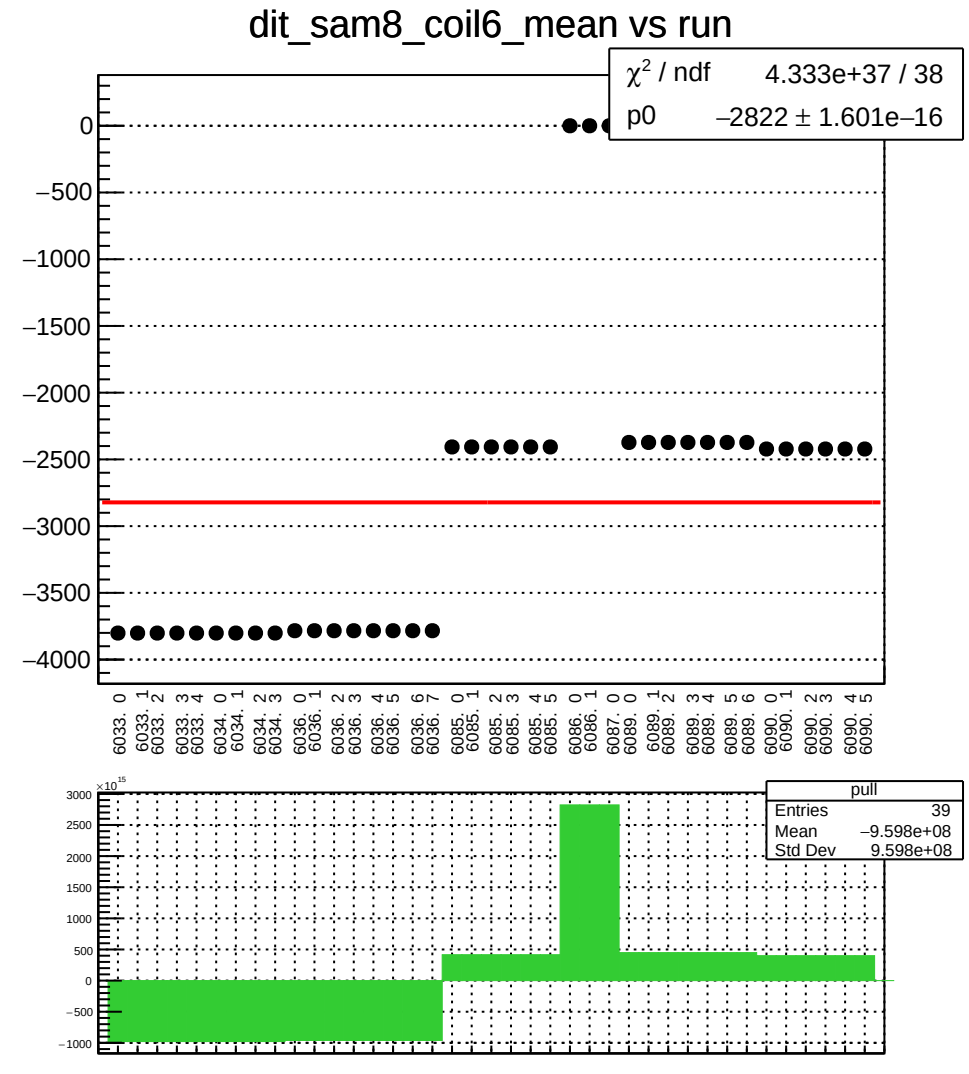

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

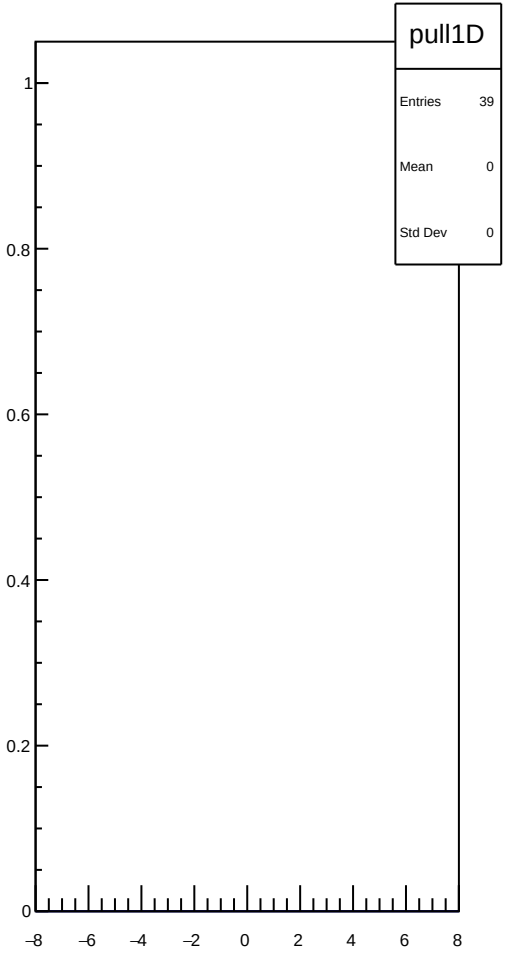

dit_sam7_coil6_mean vs run
χ² / ndf 8.028e+35 / 38
p0 369.5 ± 1.601e−16
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
pull
Entries 39
Mean 4.953e+09
Std Dev 4.953e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

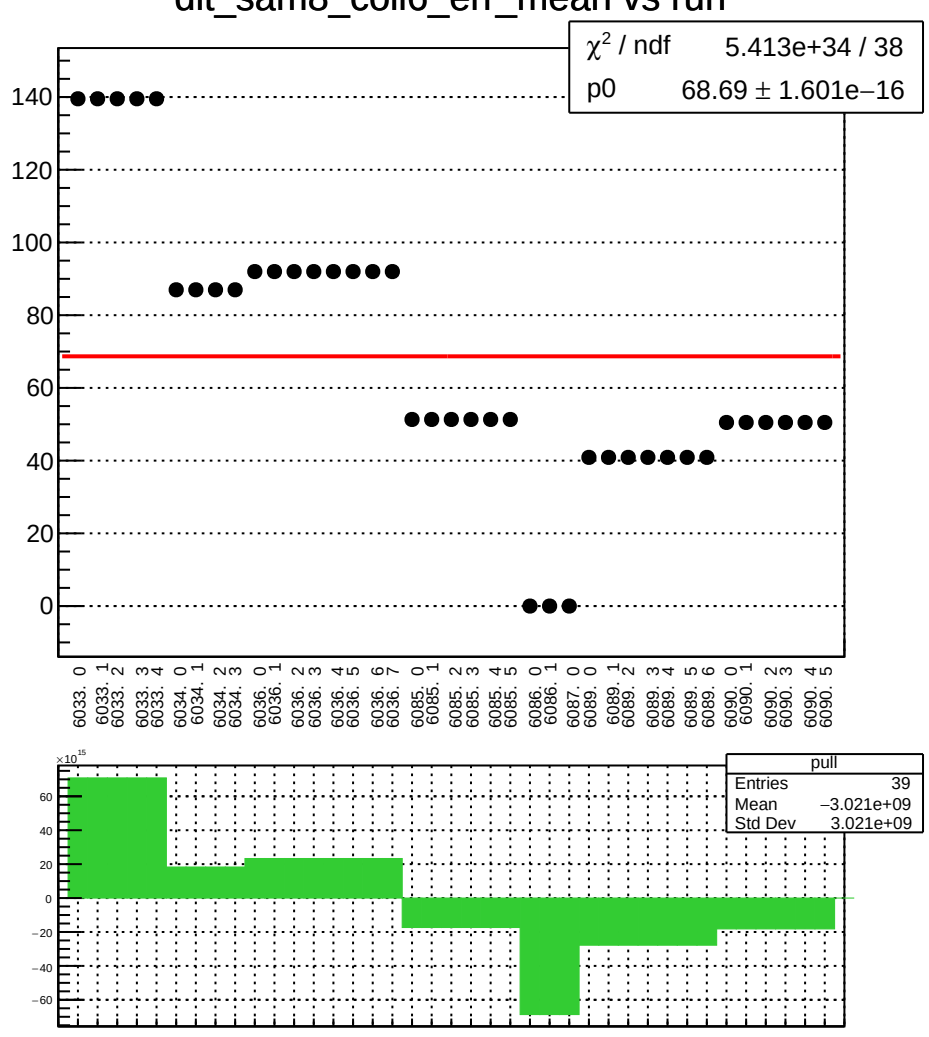

dit_sam7_coil6_err_mean vs run
χ² / ndf 5.902e+34 / 38
p0 79.96 ± 1.601e−16
140
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
60
40
20
0
−20
−40
−60
−80
pull
Entries 39
Mean 2.787e+09
Std Dev 2.787e+09
pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

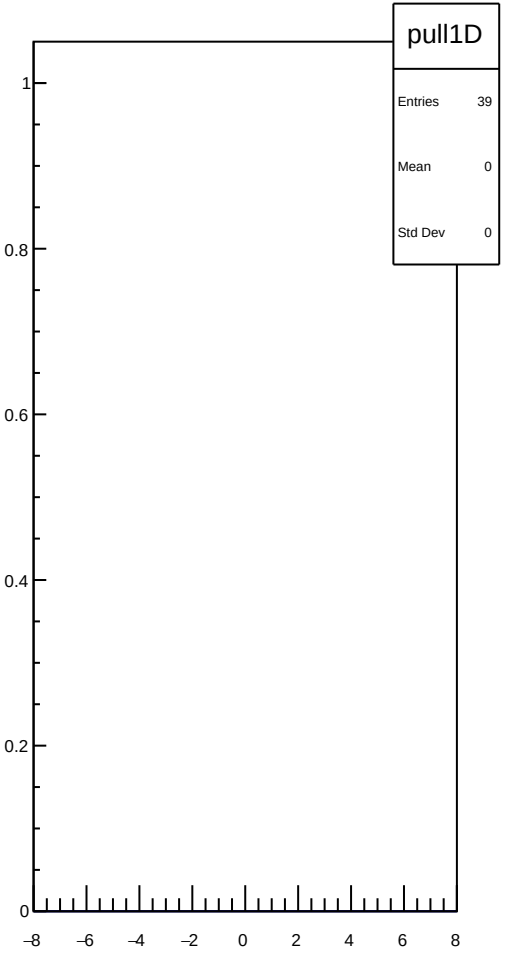

dit_sam7_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

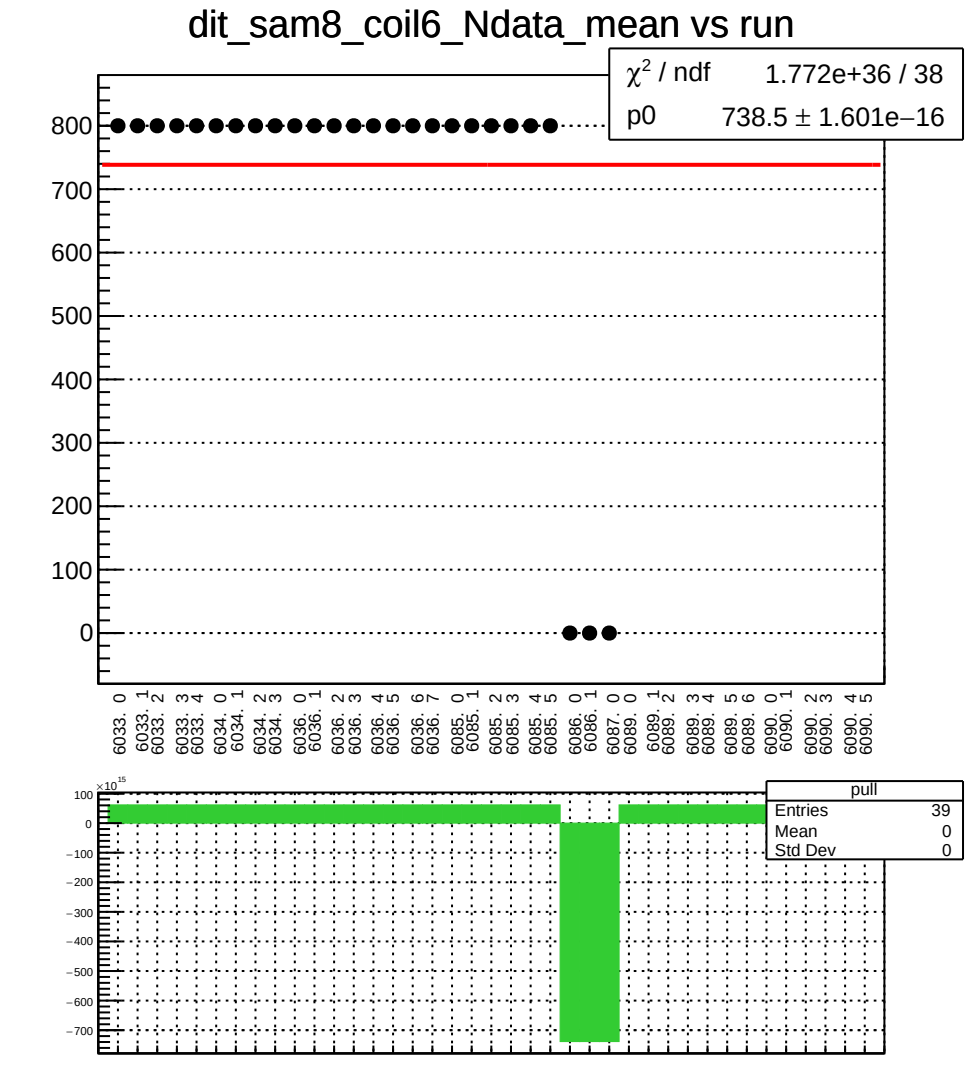

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

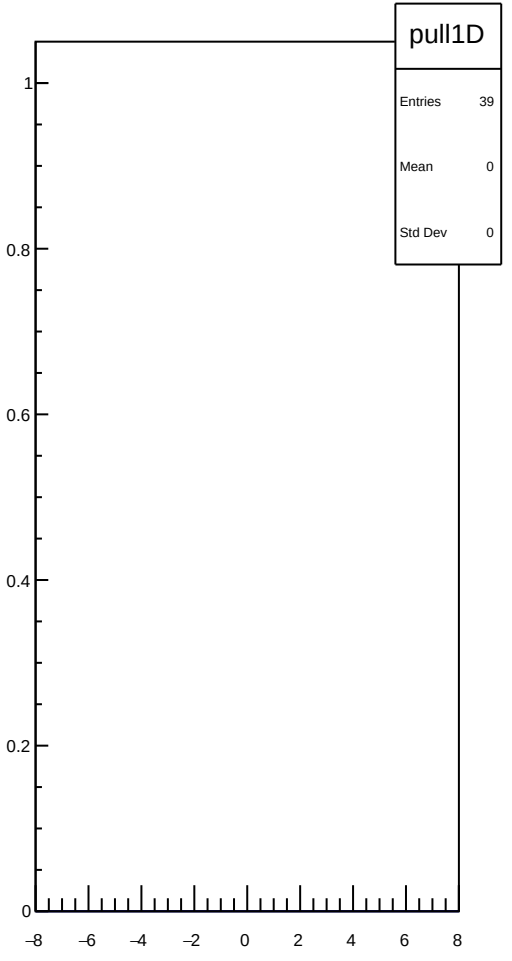

dit_sam8_coil6_mean vs run
χ² / ndf 4.333e+37 / 38
p0 −2822 ± 1.601e−16
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
−4000
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
3000
2500
2000
1500
1000
500
0
−500
−1000
pull
Entries 39
Mean −9.598e+08
Std Dev 9.598e+08

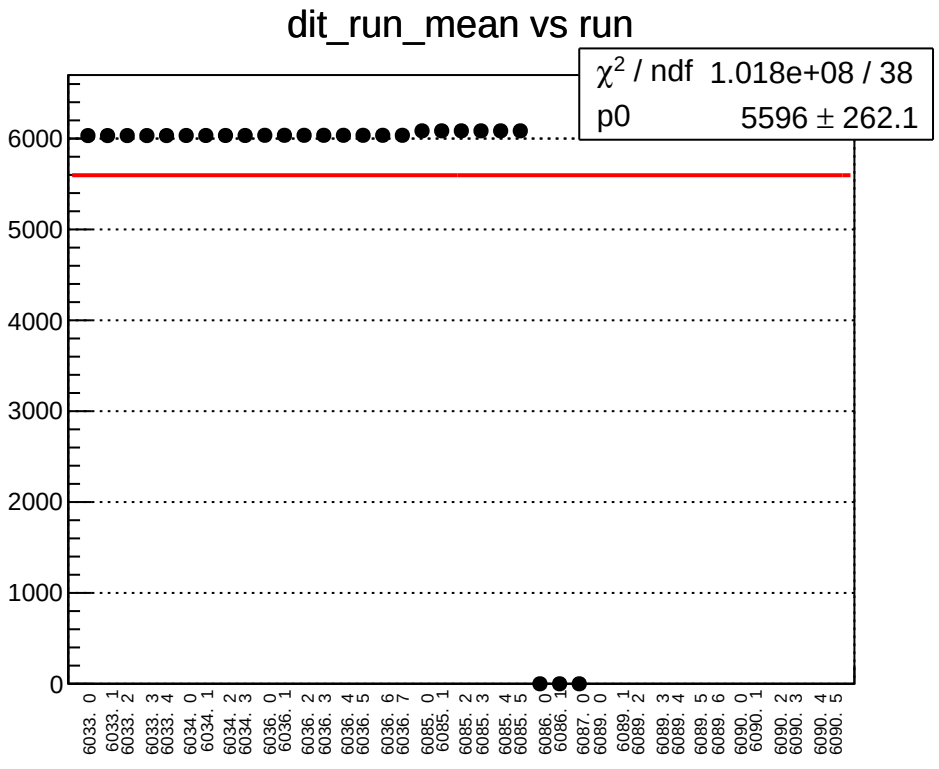

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

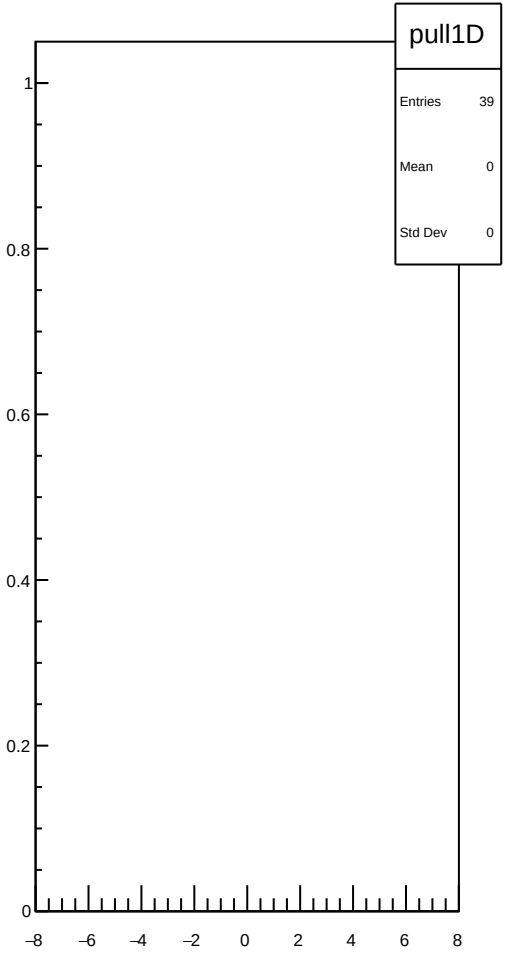

dit_sam8_coil6_err_mean vs run
χ² / ndf 5.413e+34 / 38
p0 68.69 ± 1.601e−16
140
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
60
40
20
0
−20
−40
−60
pull
Entries 39
Mean −3.021e+09
Std Dev 3.021e+09

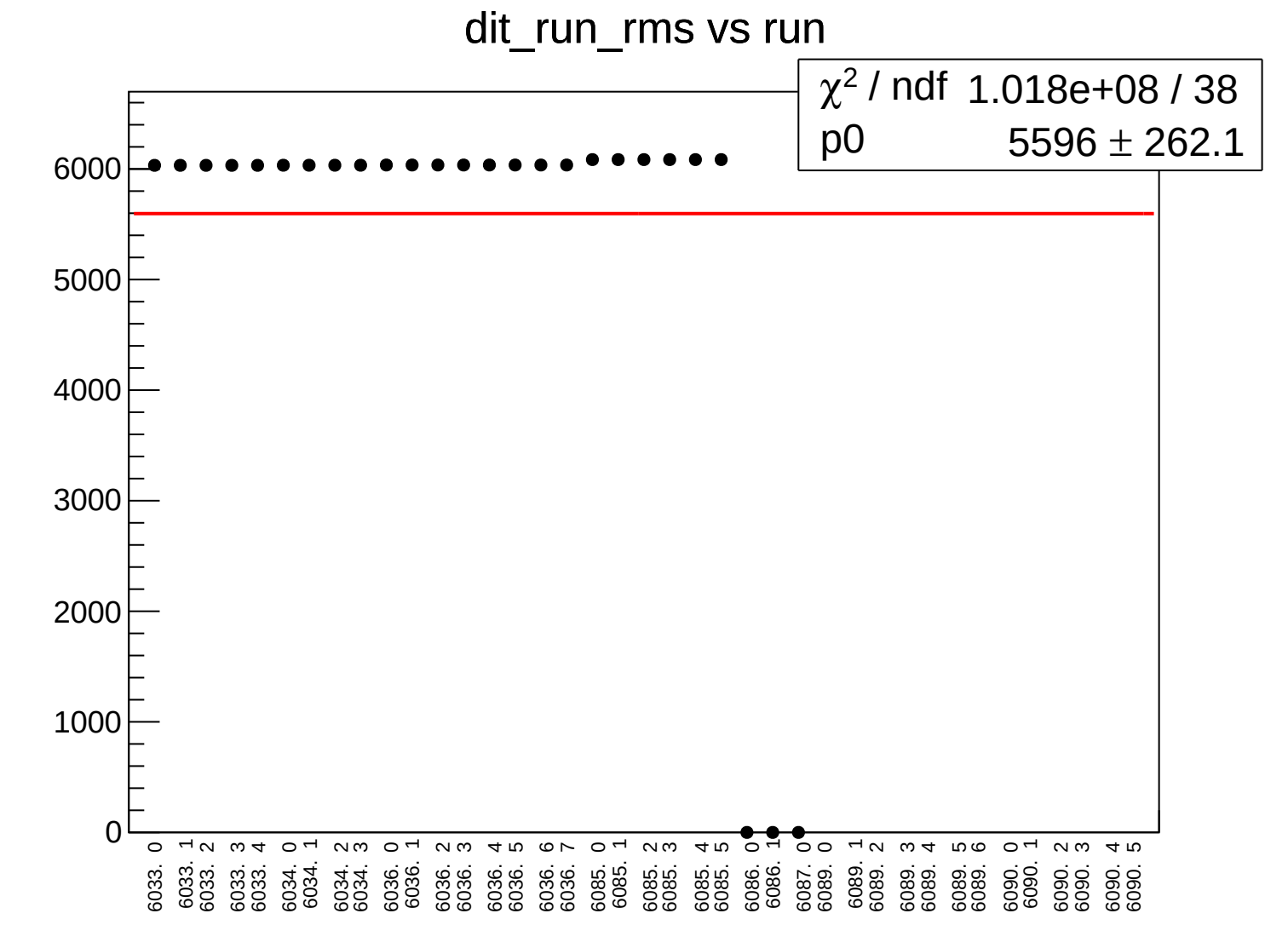

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

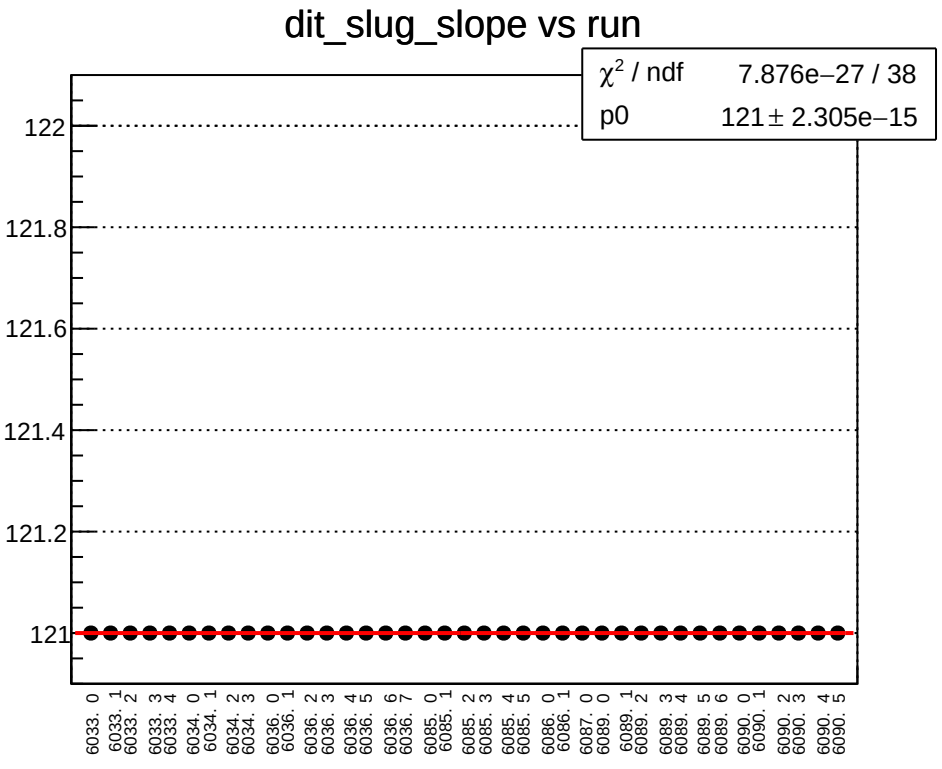

dit_sam8_coil6_Ndata_mean vs run
χ² / ndf 1.772e+36 / 38
p0 738.5 ± 1.601e−16
800
700
600
500
400
300
200
100
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
100
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 39
Mean 0
Std Dev 0

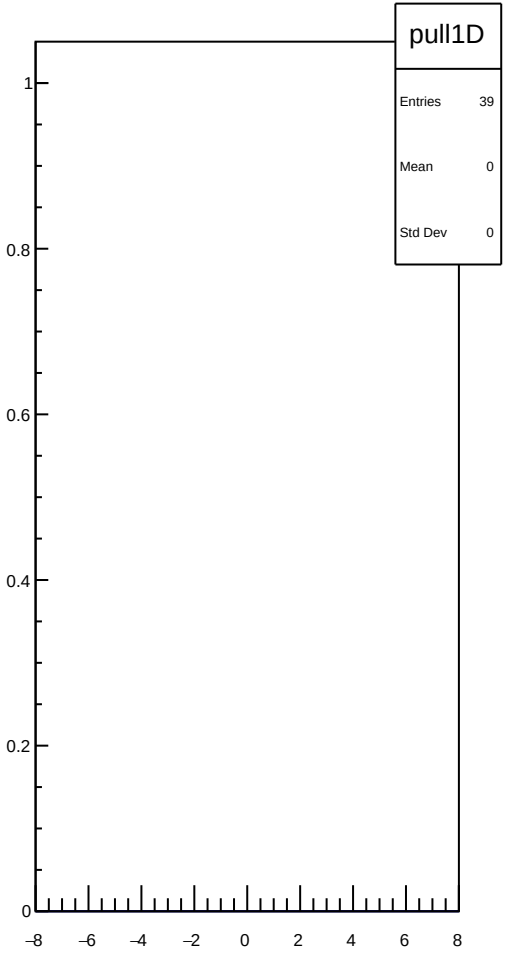

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

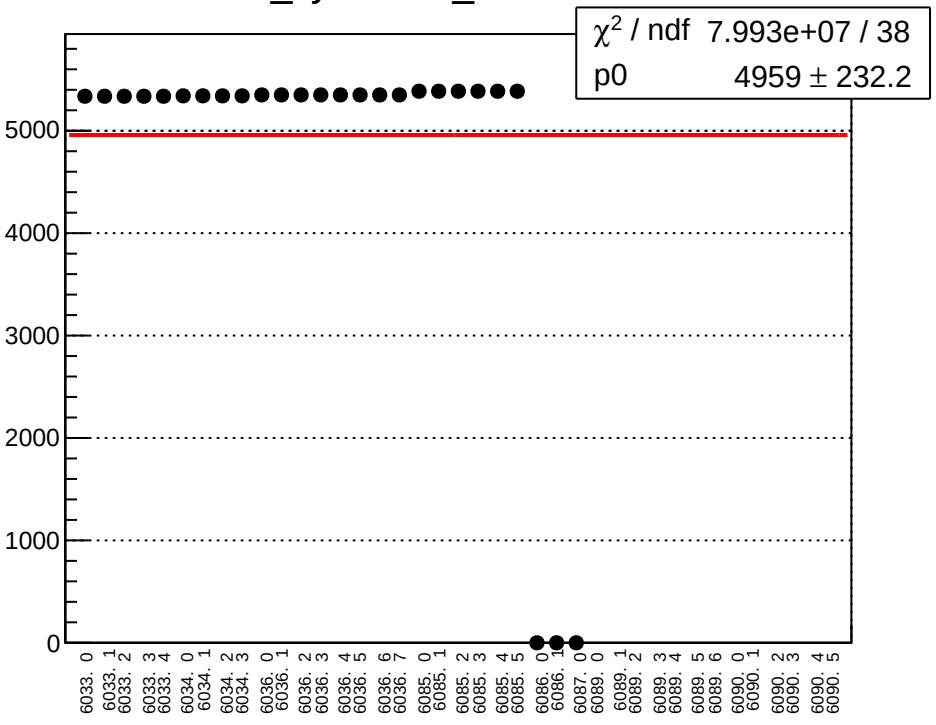

dit_run_mean vs run
χ² / ndf 1.018e+08 / 38
p0 5596 ± 262.1
6000
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

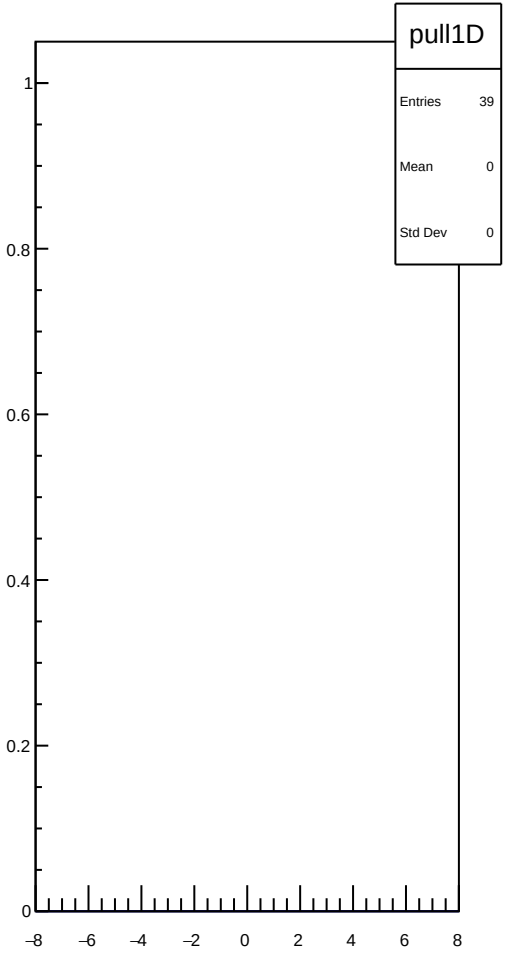

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

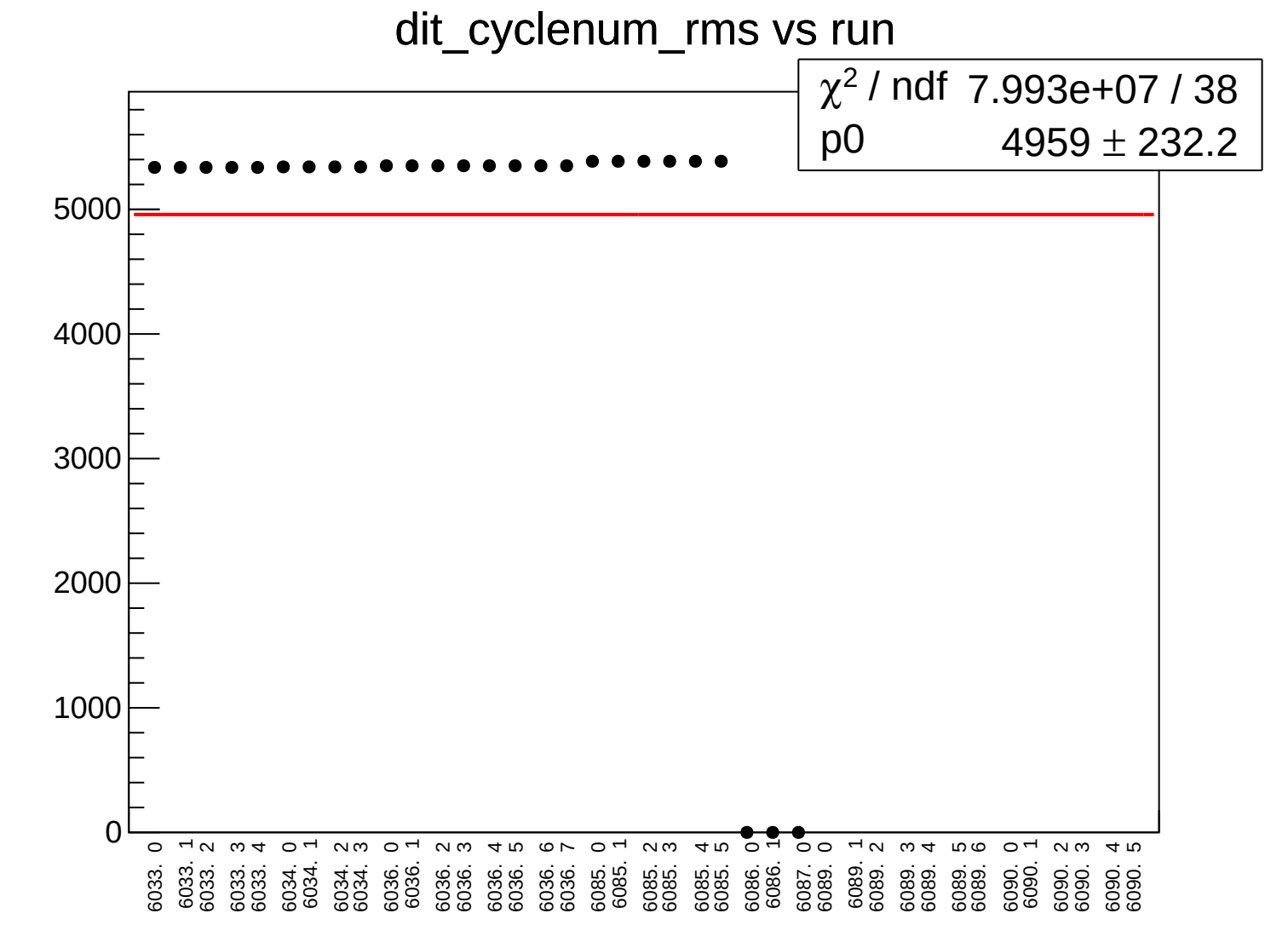

dit_run_rms vs run
χ² / ndf 1.018e+08 / 38
p0 5596 ± 262.1
6000
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

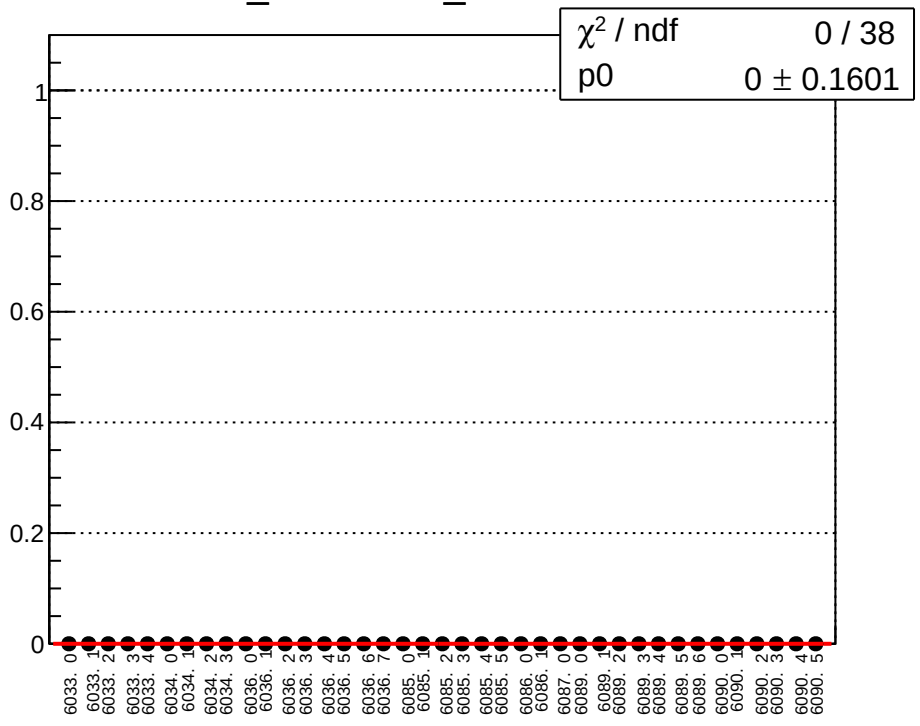

dit_slug_slope vs run
χ² / ndf 7.876e−27 / 38
p0 121 ± 2.305e−15
122
121.8
121.6
121.4
121.2
121
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

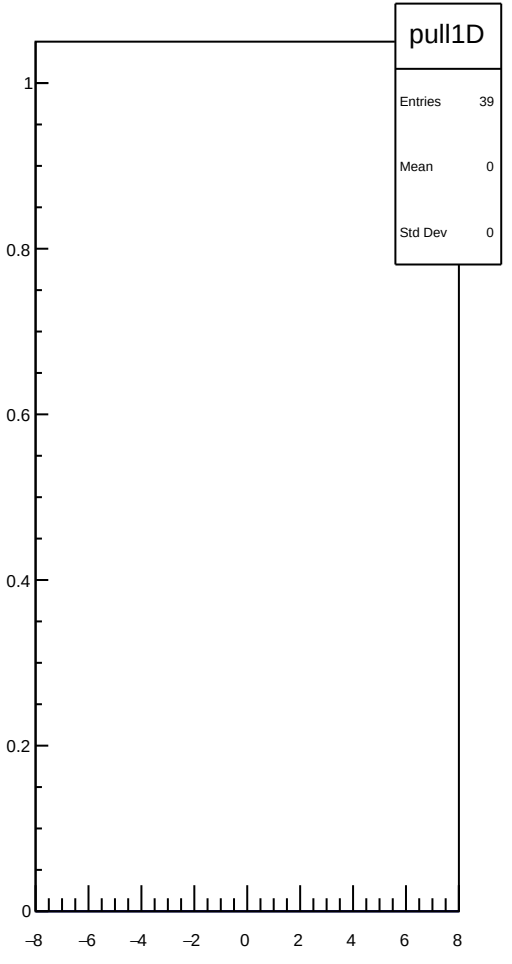

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

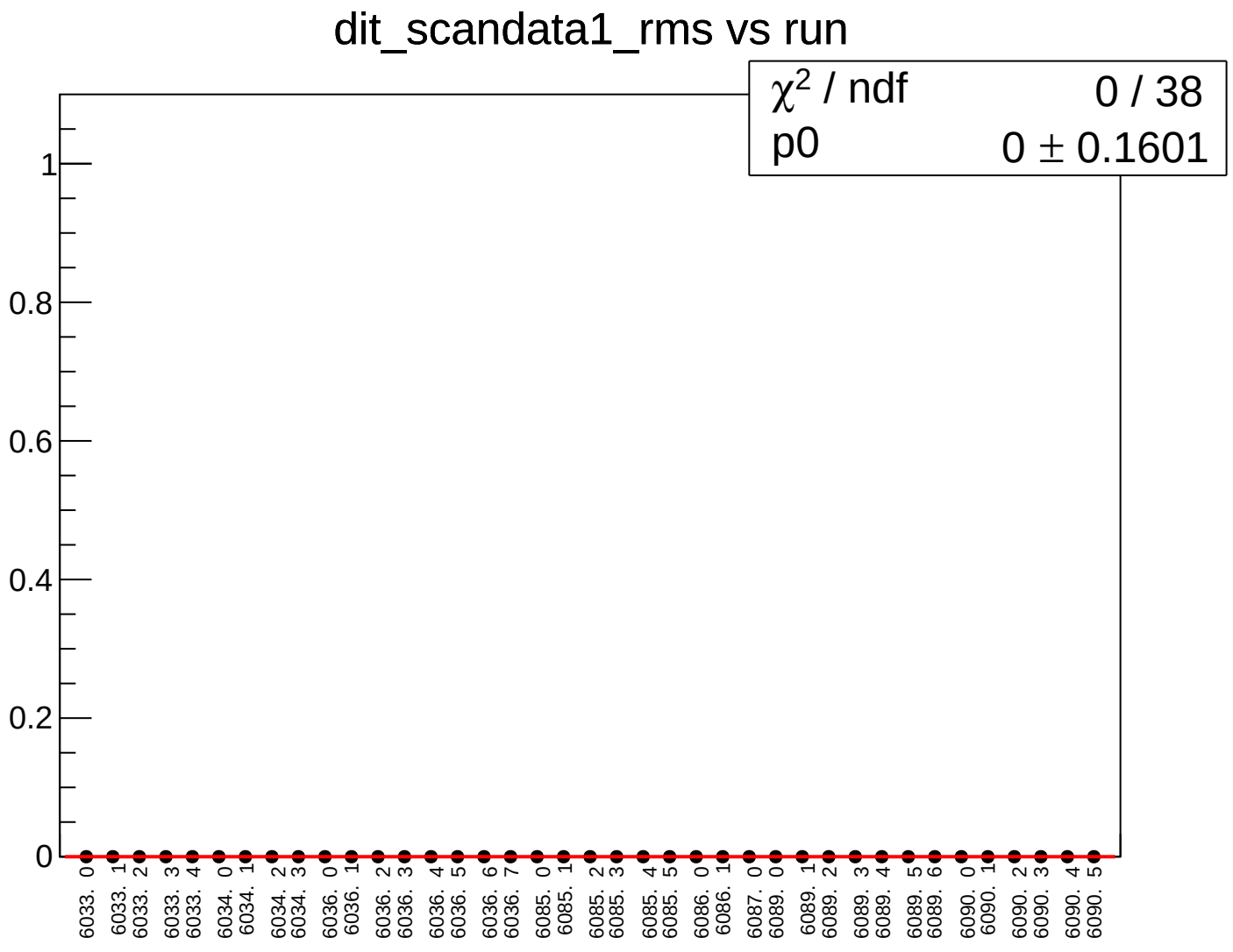

dit_cyclenum_mean vs run
χ² / ndf 7.993e+07 / 38
p0 4959 ± 232.2
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


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


dit_cyclenum_rms vs run
χ² / ndf 7.993e+07 / 38
p0 4959 ± 232.2
5000
4000
3000
2000
1000
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_scandata1_mean vs run
χ^2 / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


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


dit_scandata1_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
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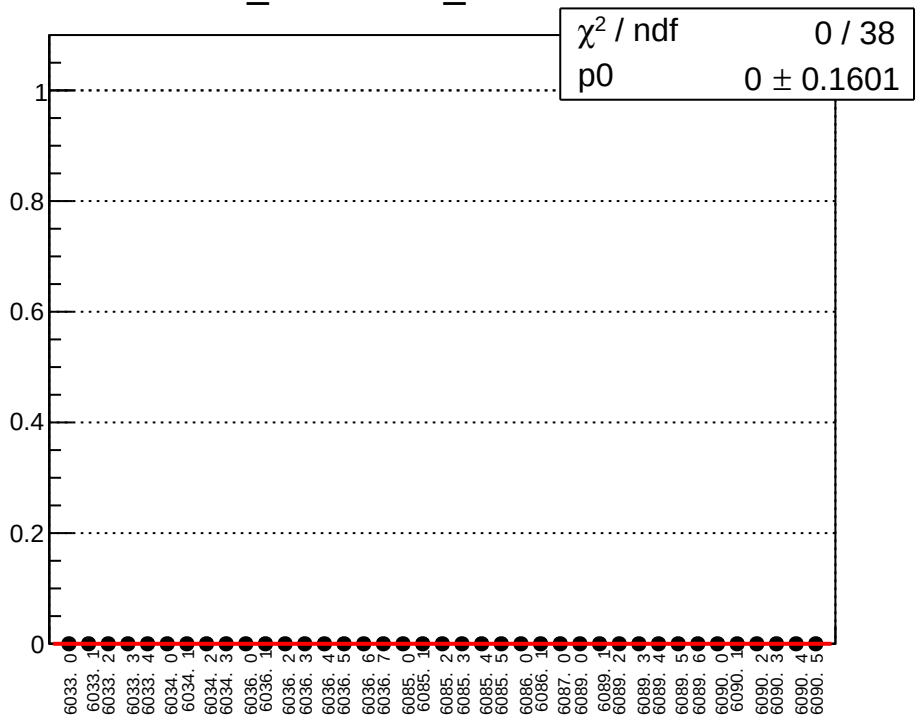
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_scandata2_mean vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
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6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
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6090. 1
6090. 2
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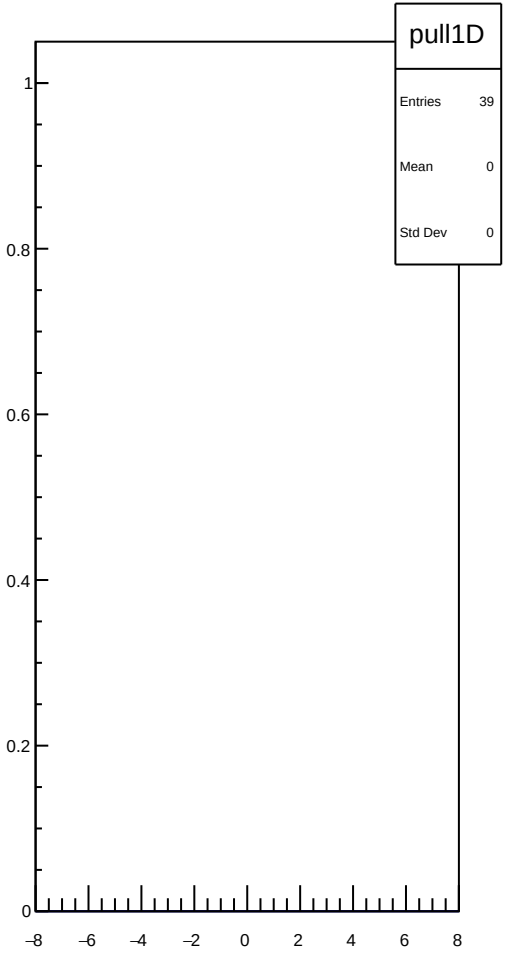
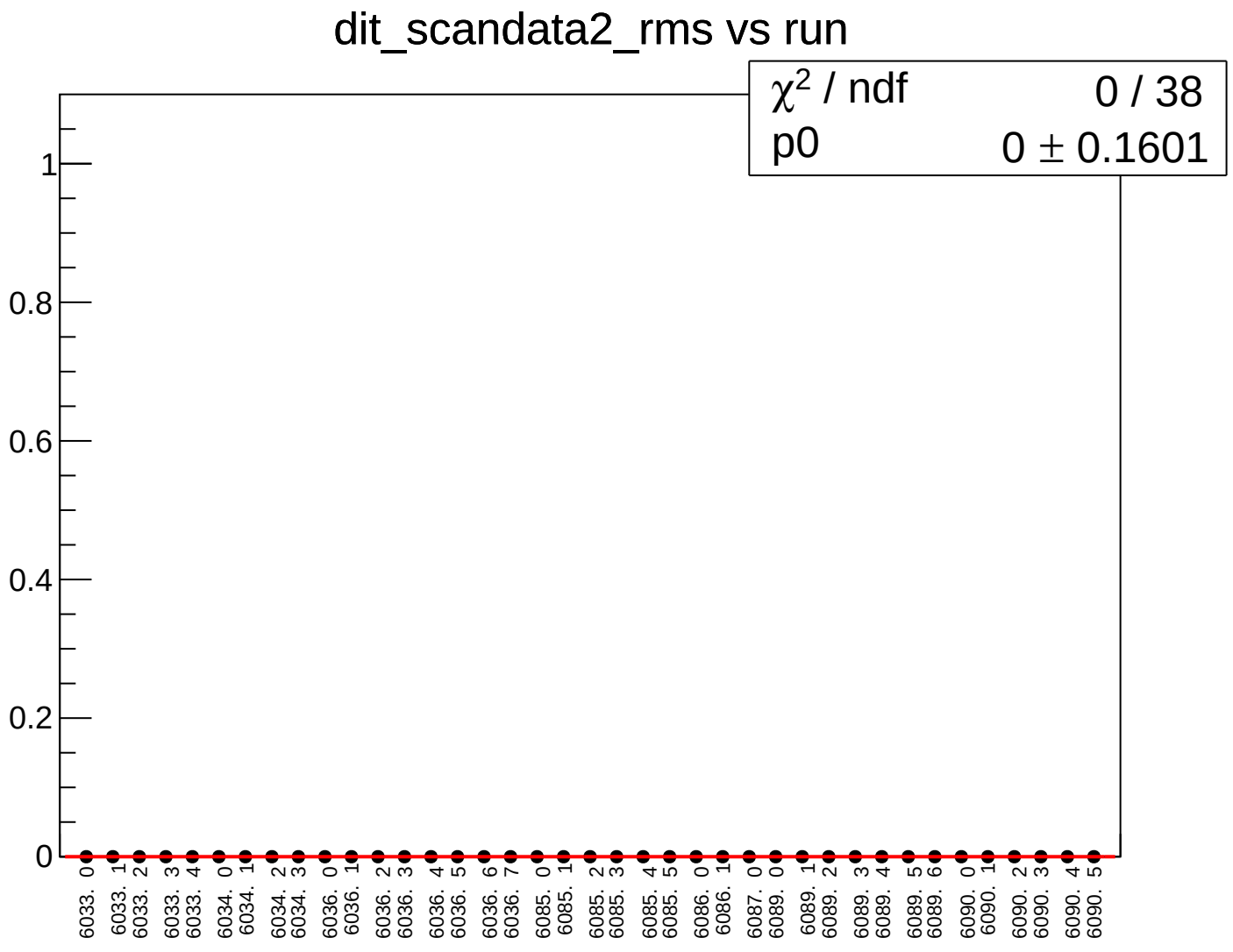
6090. 4
6090. 5


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


dit_scandata2_rms vs run
χ² / ndf 0 / 38
p0 0 ± 0.1601
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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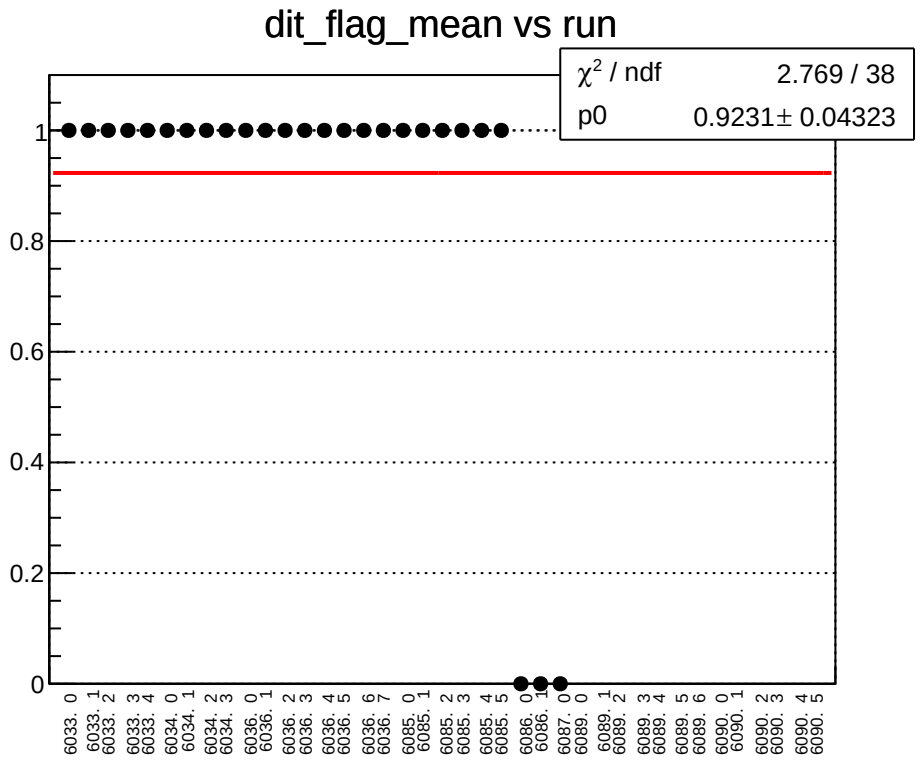
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_flag_mean vs run
χ² / ndf 2.769 / 38
p0 0.9231± 0.04323
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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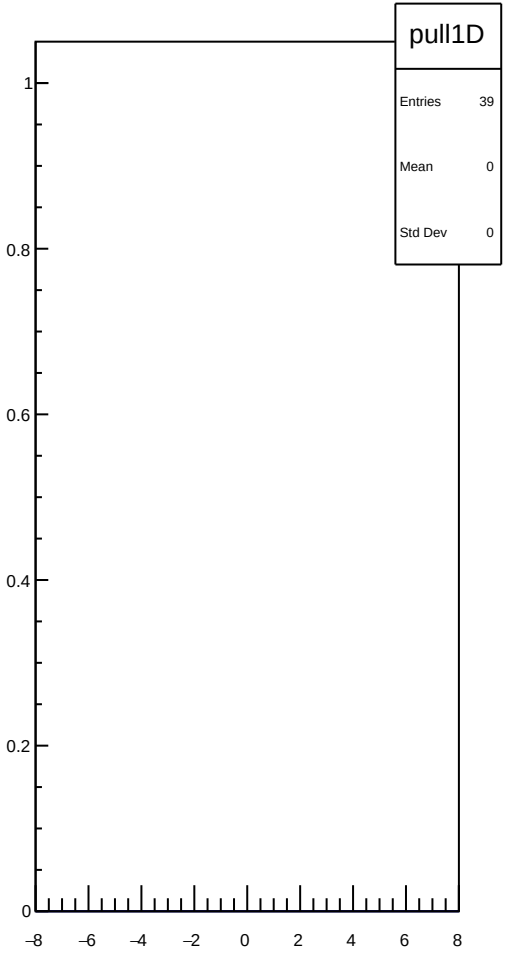
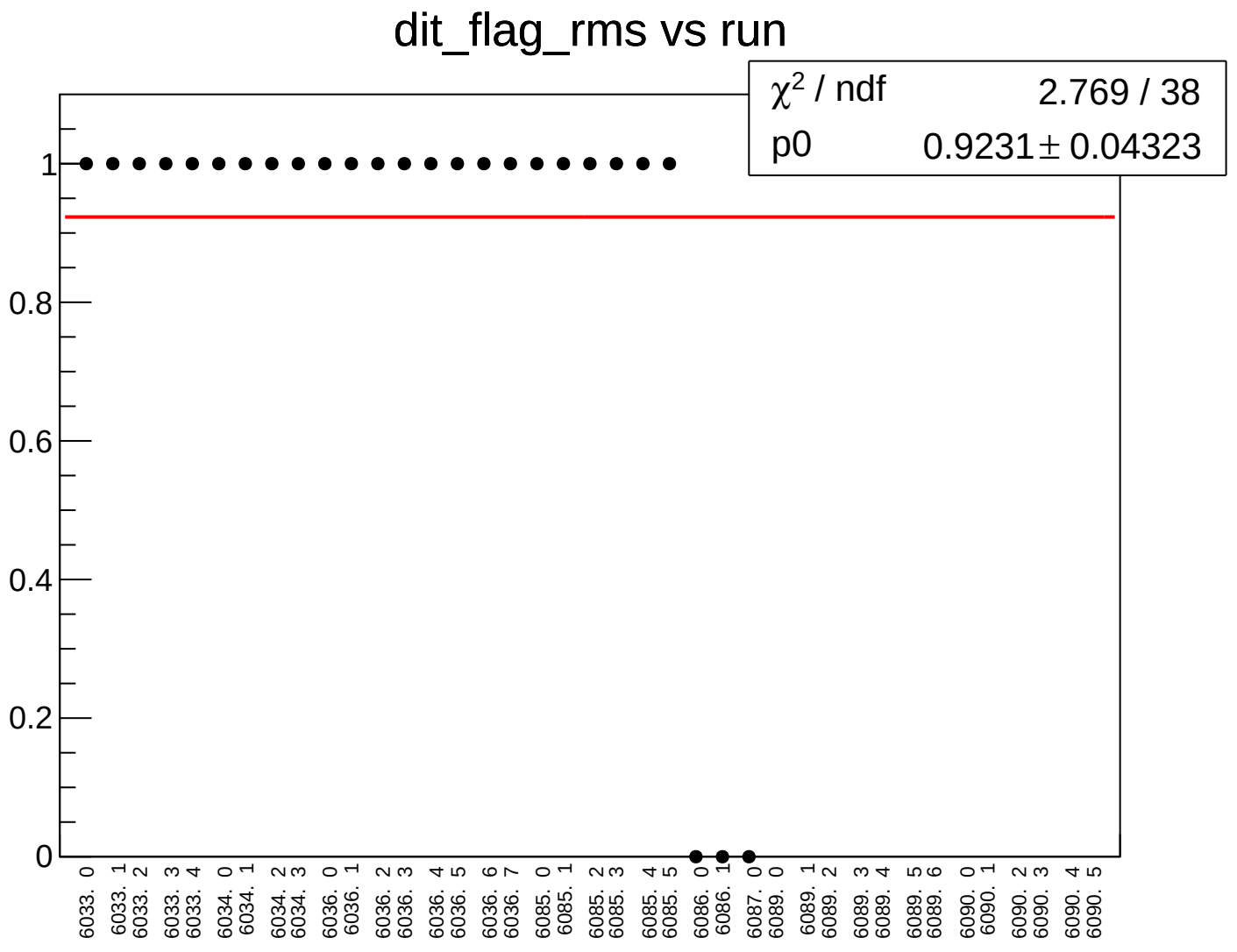
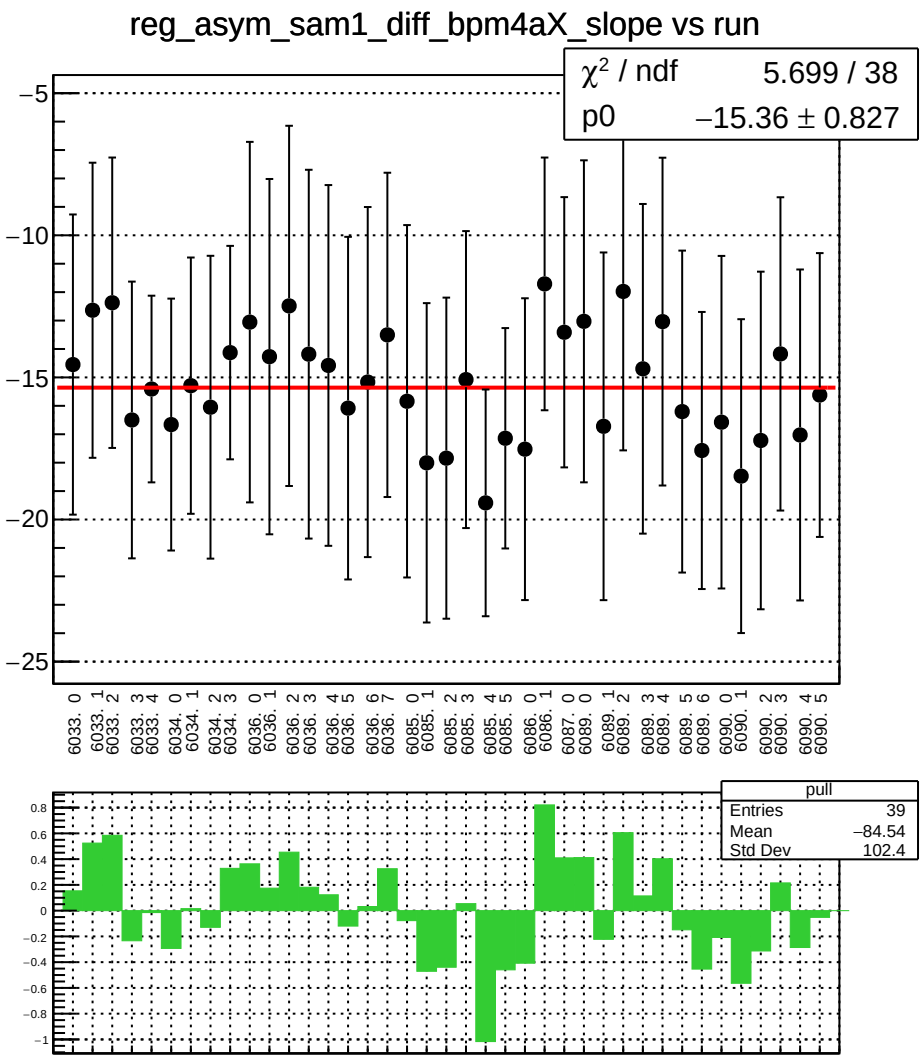
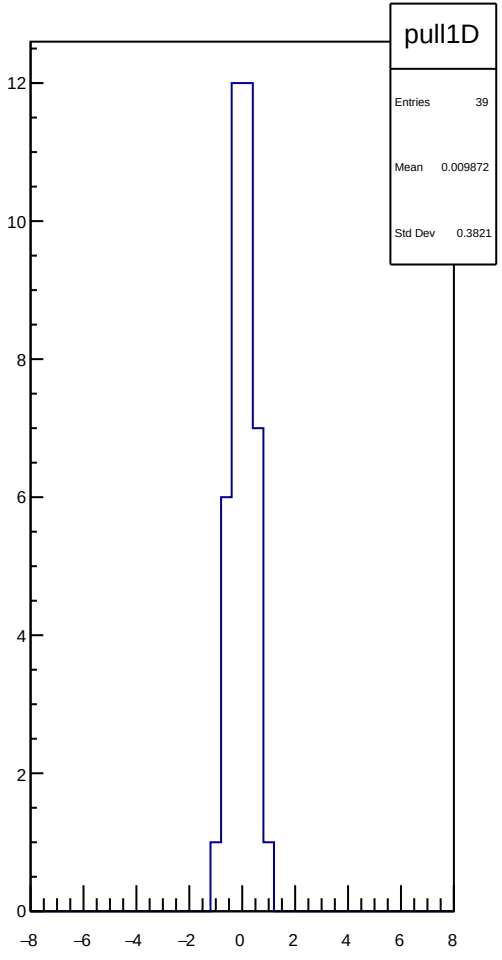
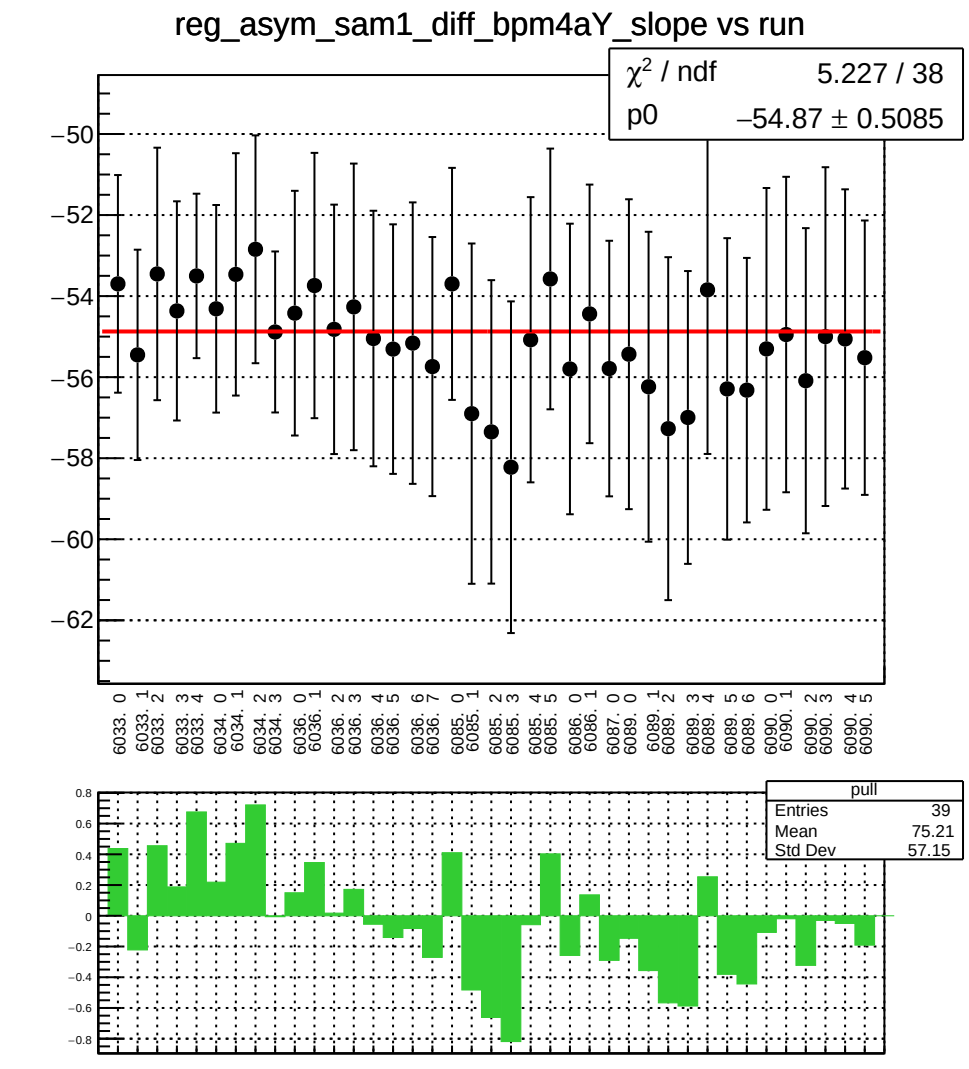
6090. 4
6090. 5

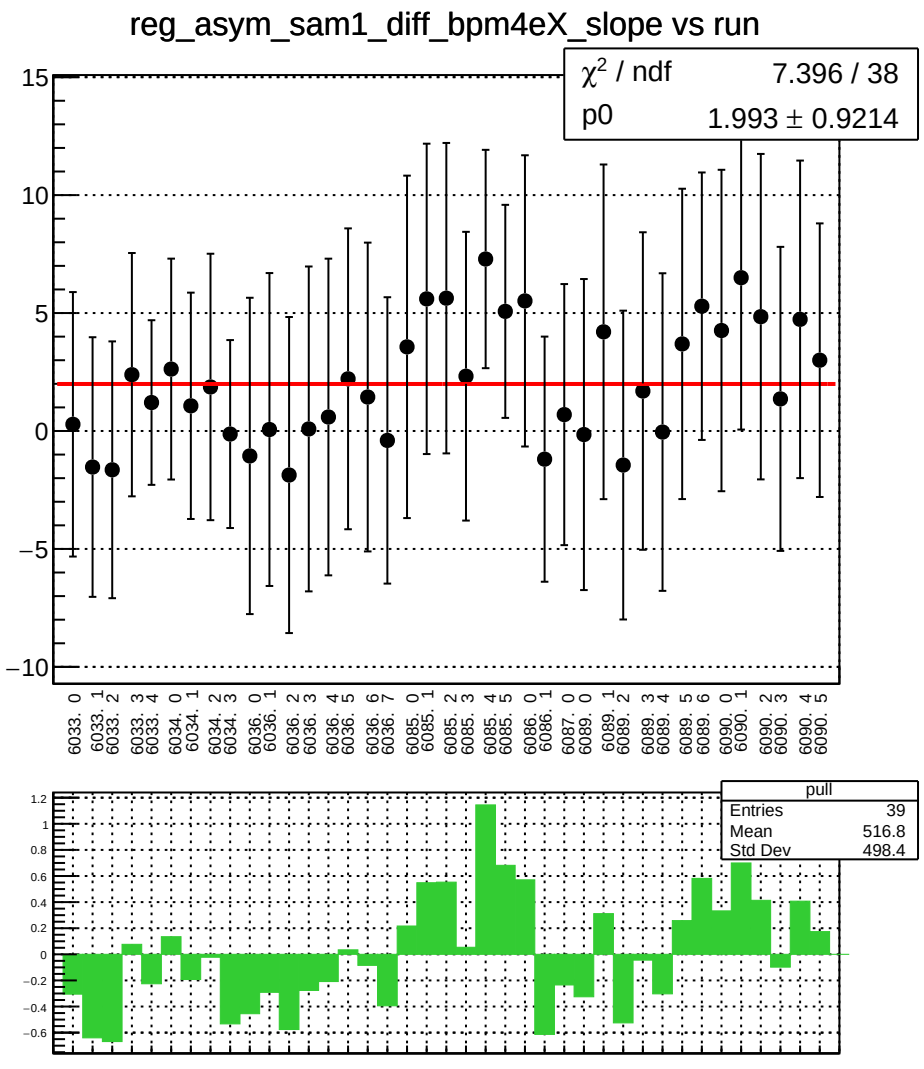

pull1D
Entries 39
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

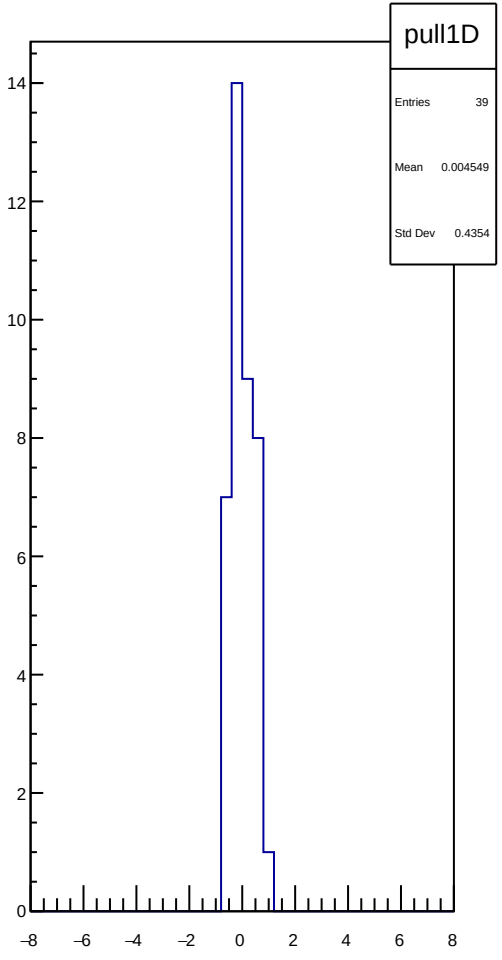

dit_flag_rms vs run
χ² / ndf 2.769 / 38
p0 0.9231 ± 0.04323
1
0.8
0.6
0.4
0.2
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

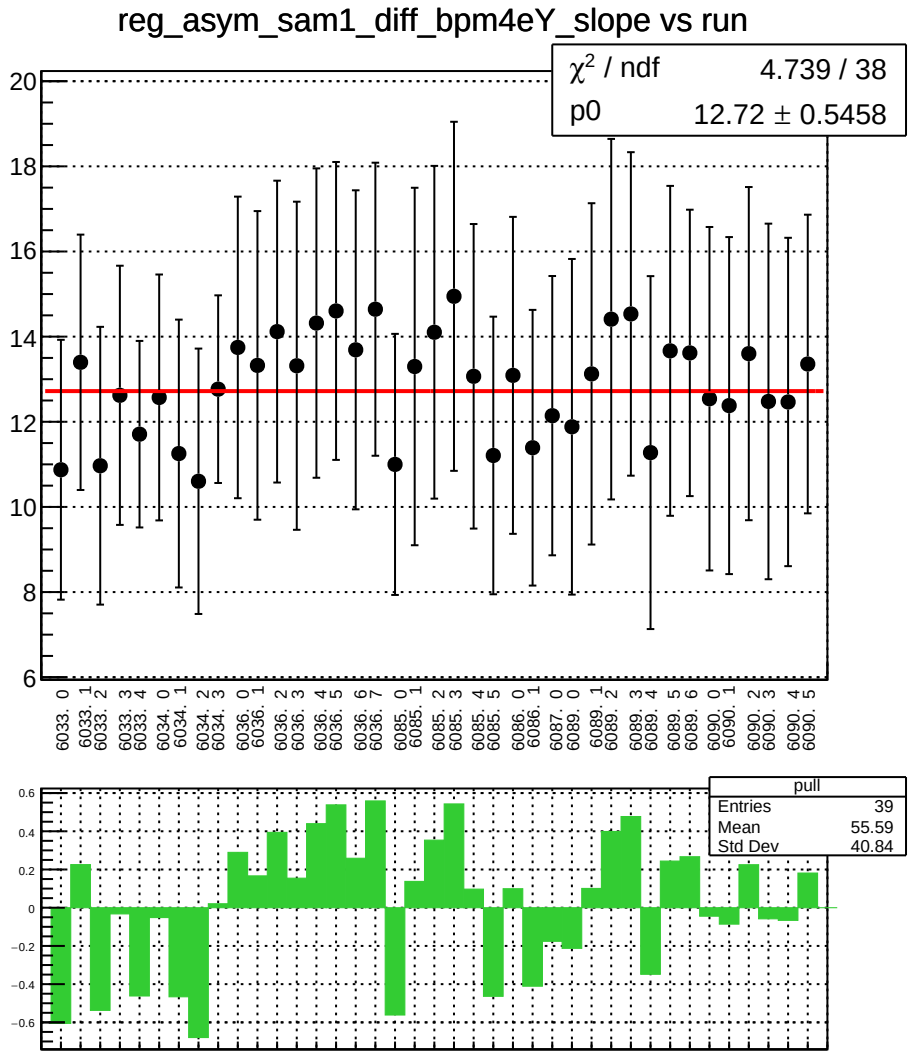

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 5.699 / 38
p0 −15.36 ± 0.827
pull
Entries 39
Mean −84.54
Std Dev 102.4

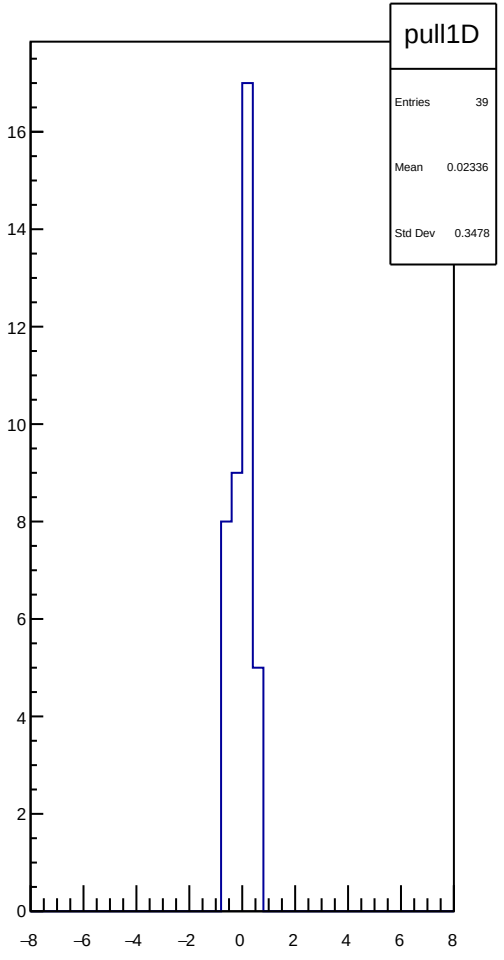

pull1D
Entries 39
Mean 0.009872
Std Dev 0.3821

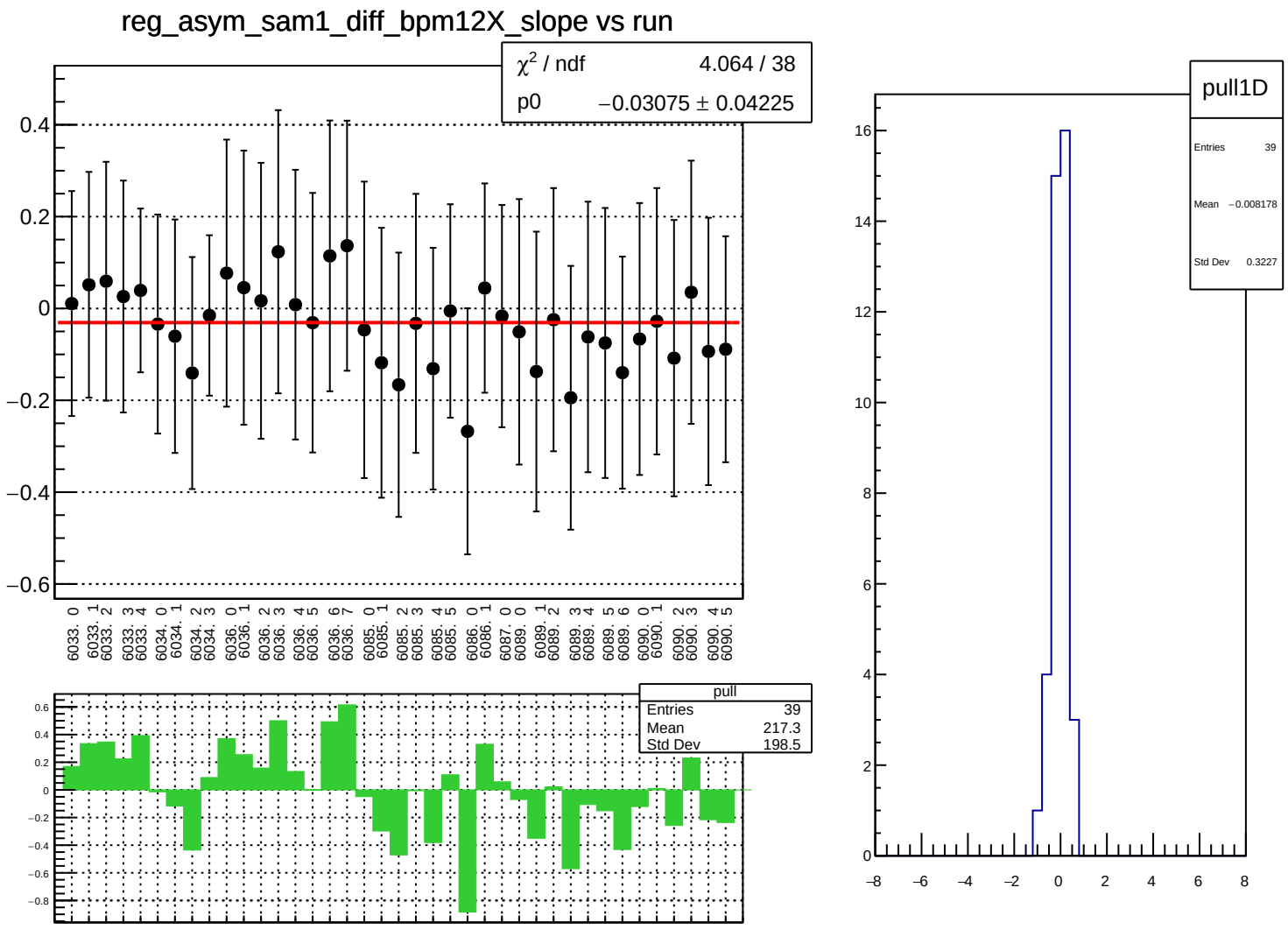

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 5.227 / 38
p0 −54.87 ± 0.5085
−50
−52
−54
−56
−58
−60
−62
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

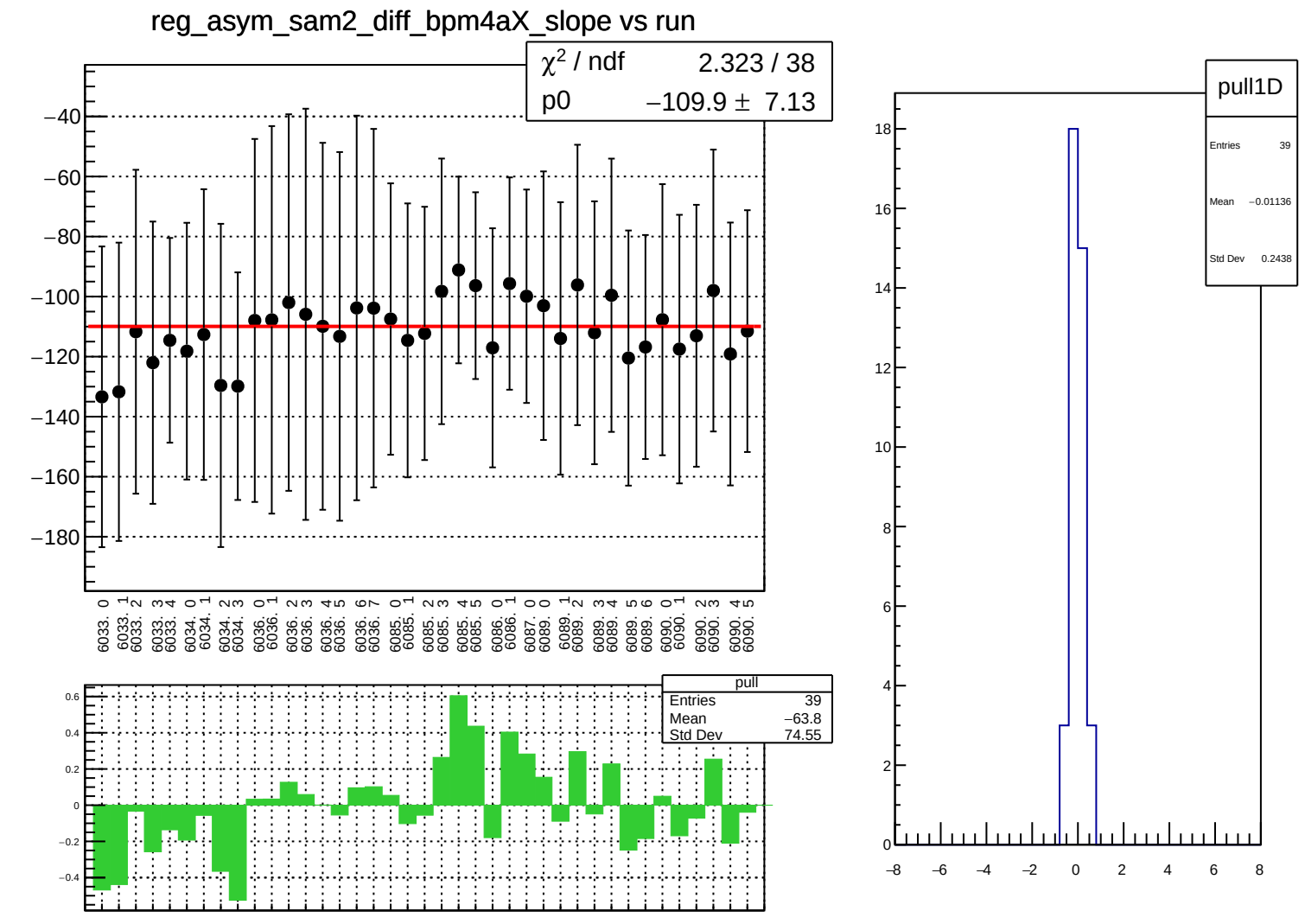

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 7.396 / 38
p0 1.993 ± 0.9214
pull
Entries 39
Mean 516.8
Std Dev 498.4

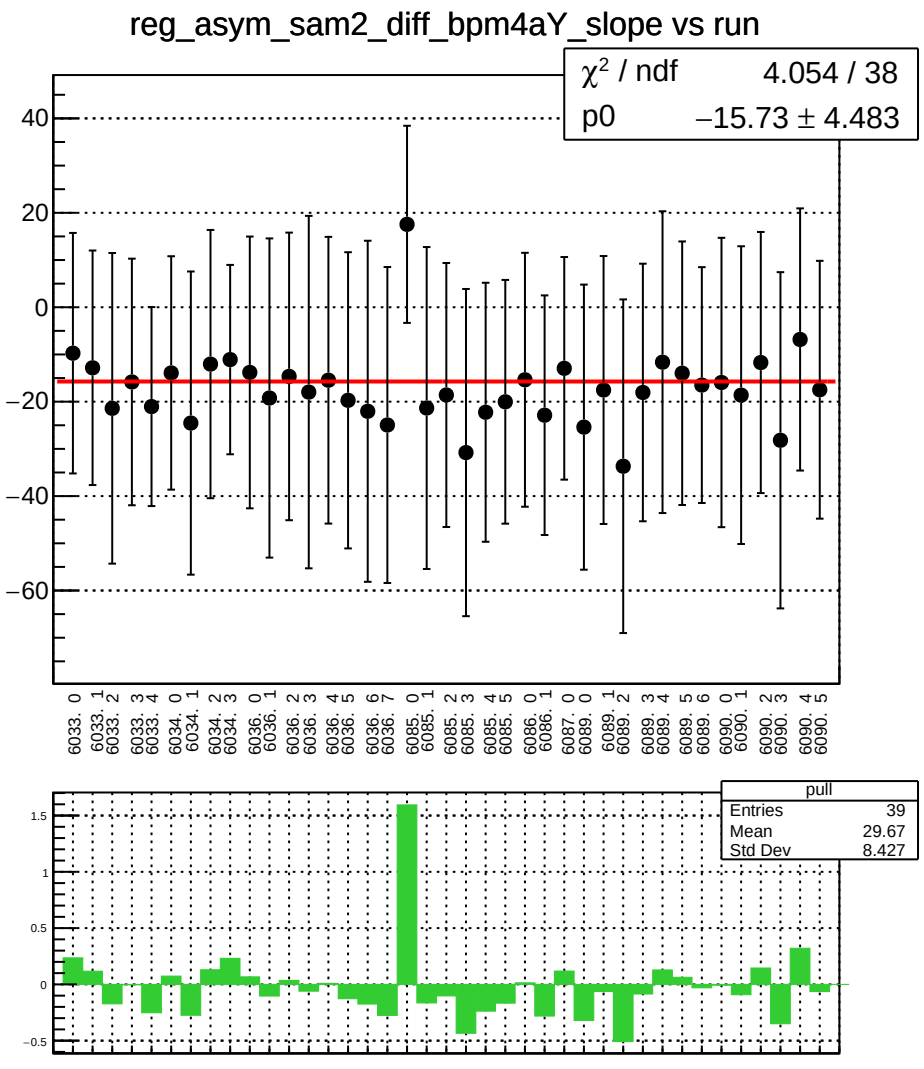

pull1D
Entries 39
Mean 0.004549
Std Dev 0.4354

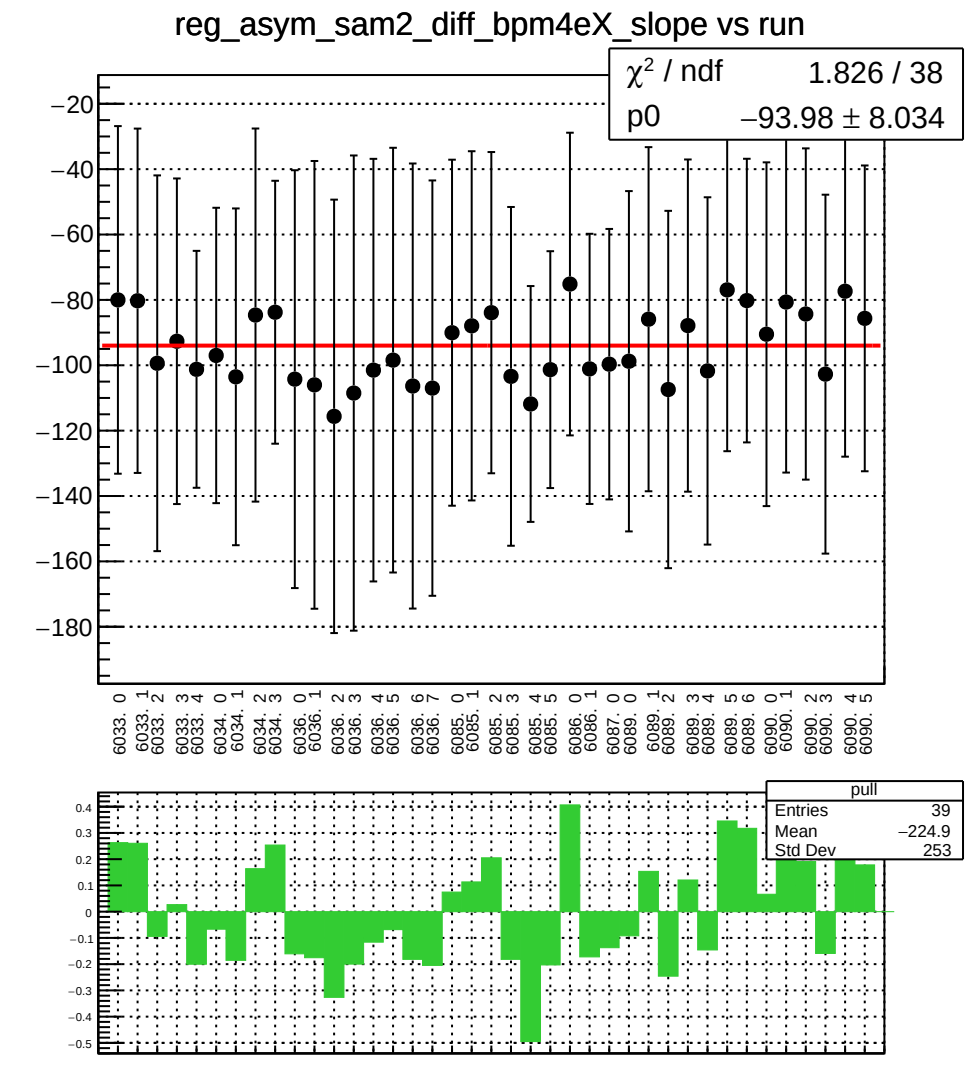

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 4.739 / 38
p0 12.72 ± 0.5458
pull
Entries 39
Mean 55.59
Std Dev 40.84

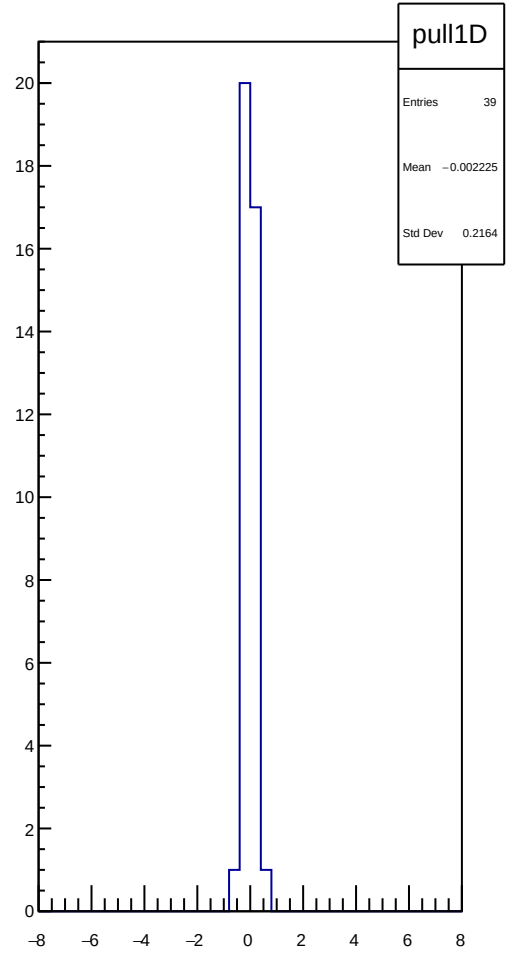

pull1D
Entries 39
Mean 0.02336
Std Dev 0.3478

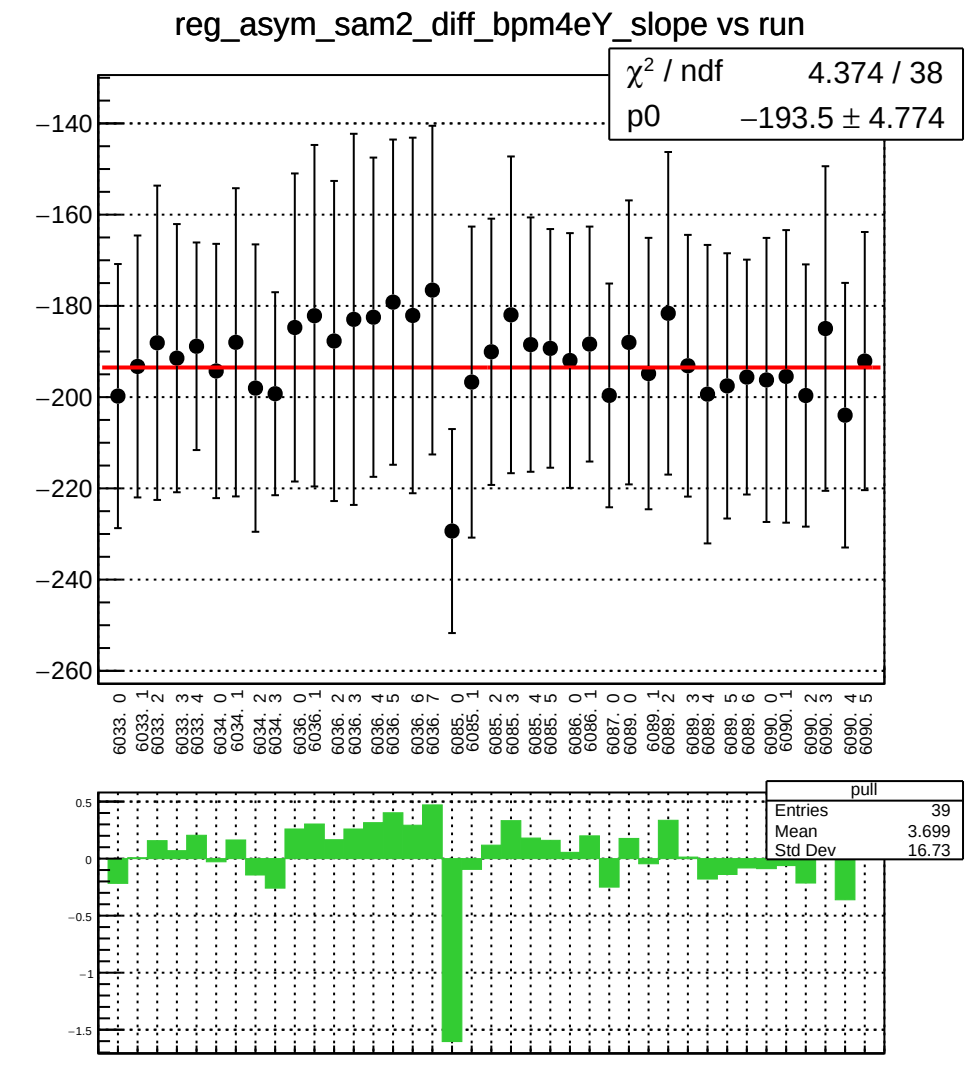

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 4.064 / 38
p0 −0.03075 ± 0.04225
pull
Entries 39
Mean 217.3
Std Dev 198.5
pull1D
Entries 39
Mean −0.008178
Std Dev 0.3227

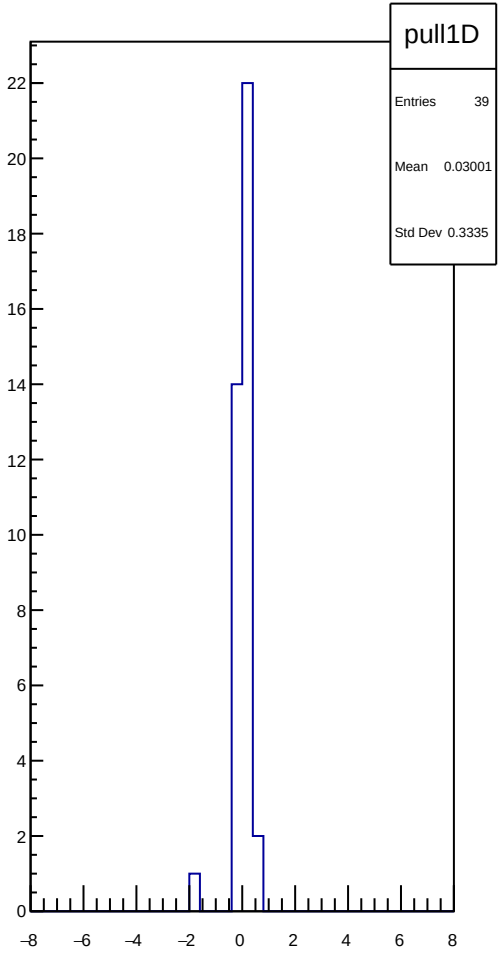

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 2.323 / 38
p0 −109.9 ± 7.13
−40
−60
−80
−100
−120
−140
−160
−180
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086.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

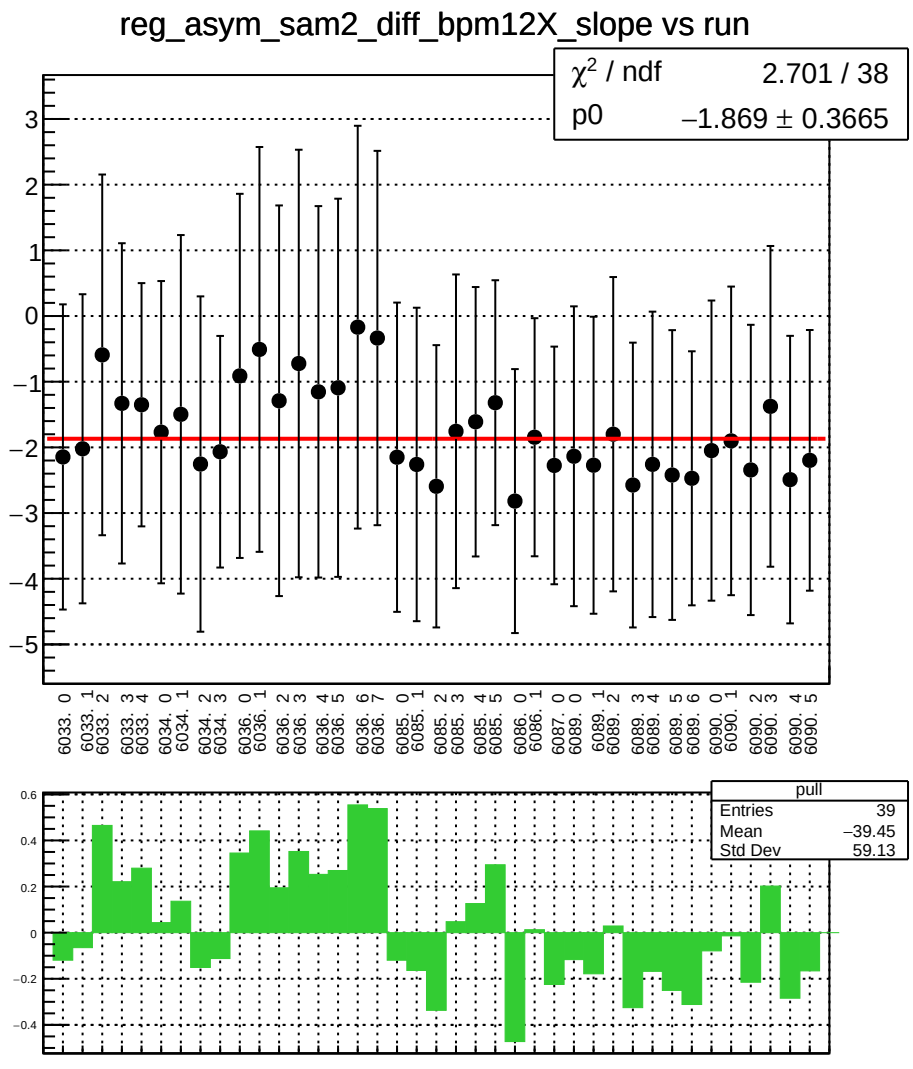

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.054 / 38
p0 −15.73 ± 4.483
40
20
0
−20
−40
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

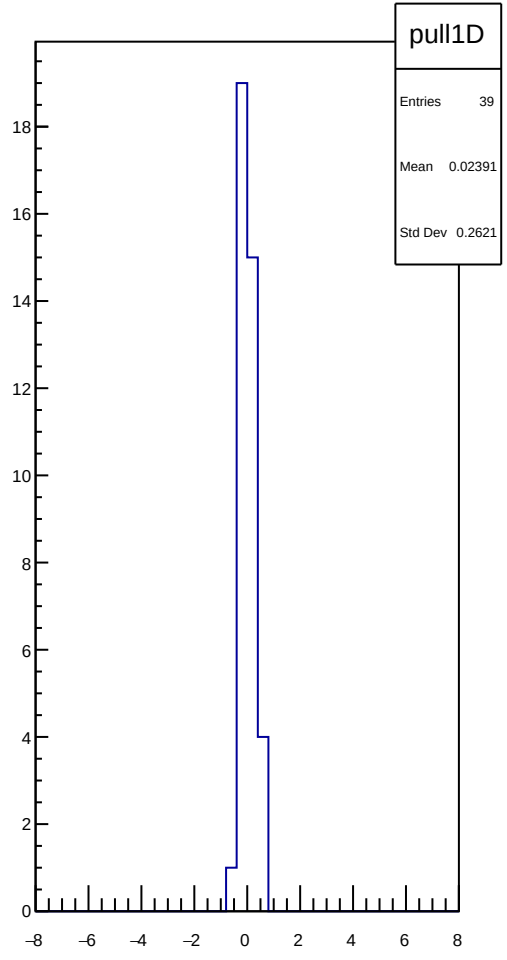

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.826 / 38
p0 −93.98 ± 8.034
pull
Entries 39
Mean −224.9
Std Dev 253

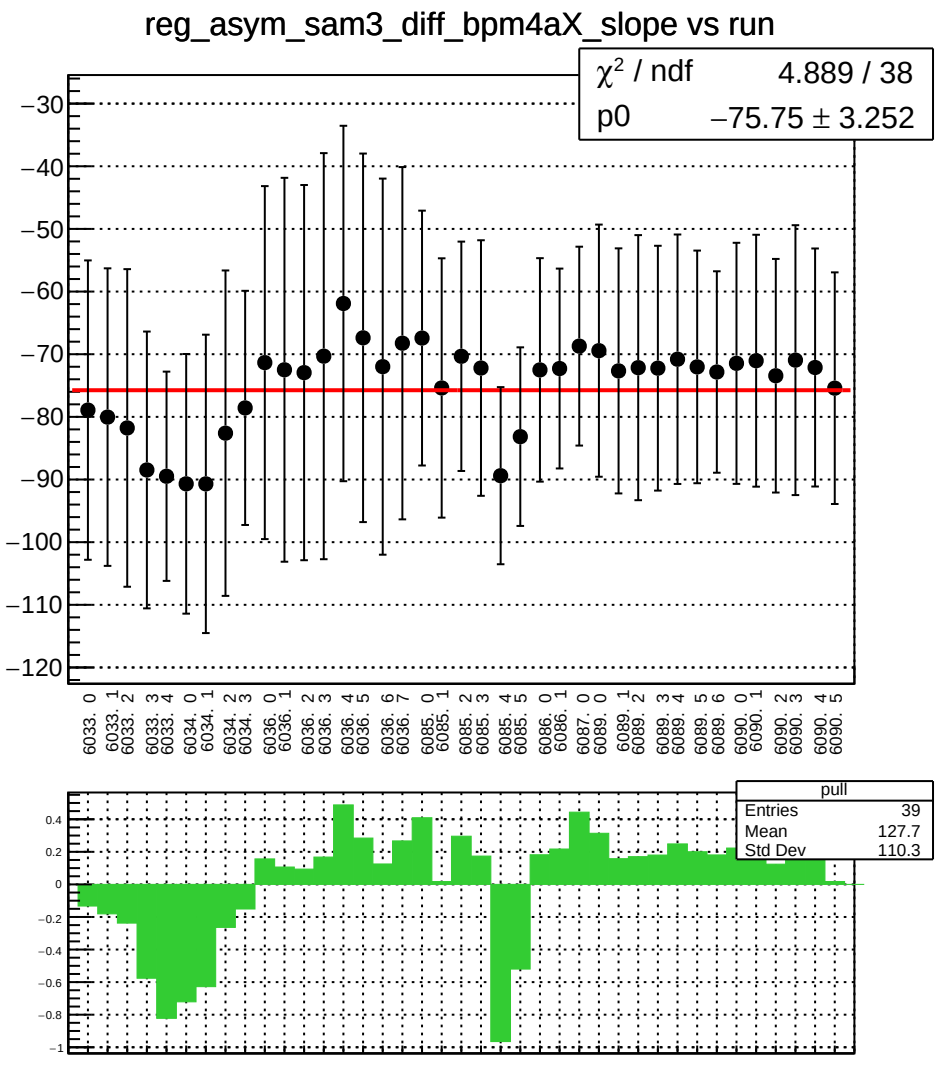

pull1D
Entries 39
Mean −0.002225
Std Dev 0.2164

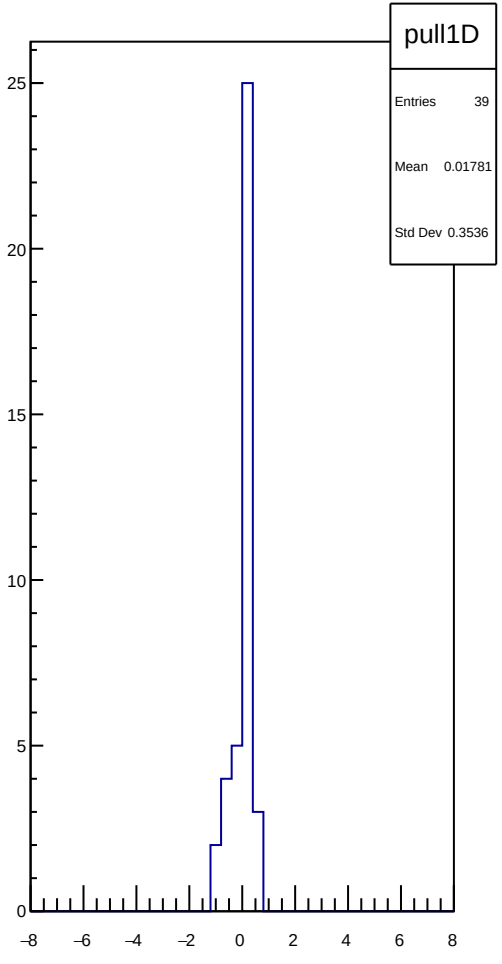

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.374 / 38
p0 −193.5 ± 4.774
−140
−160
−180
−200
−220
−240
−260
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086.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

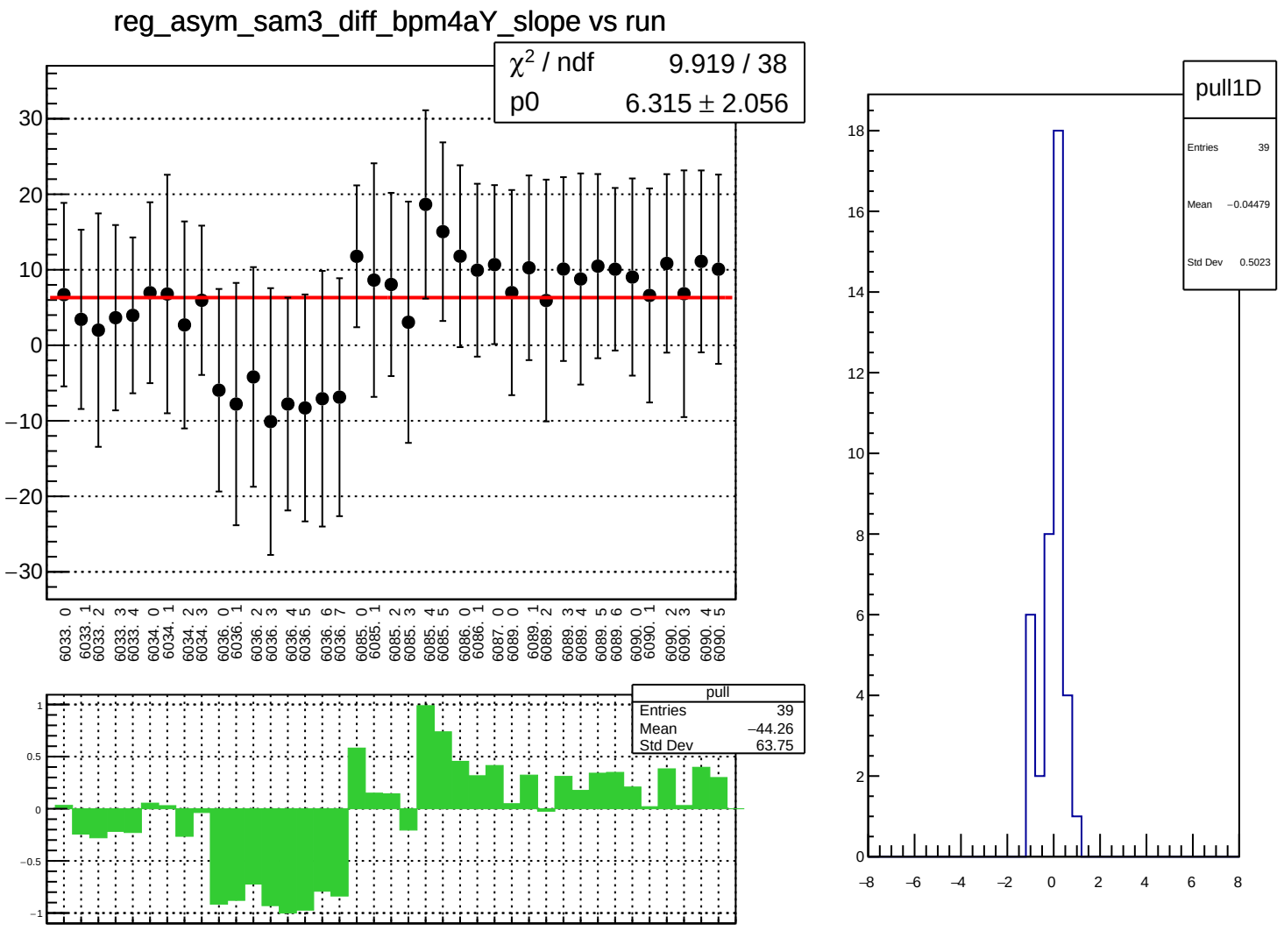

pull1D
Entries 39
Mean 0.03001
Std Dev 0.3335
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

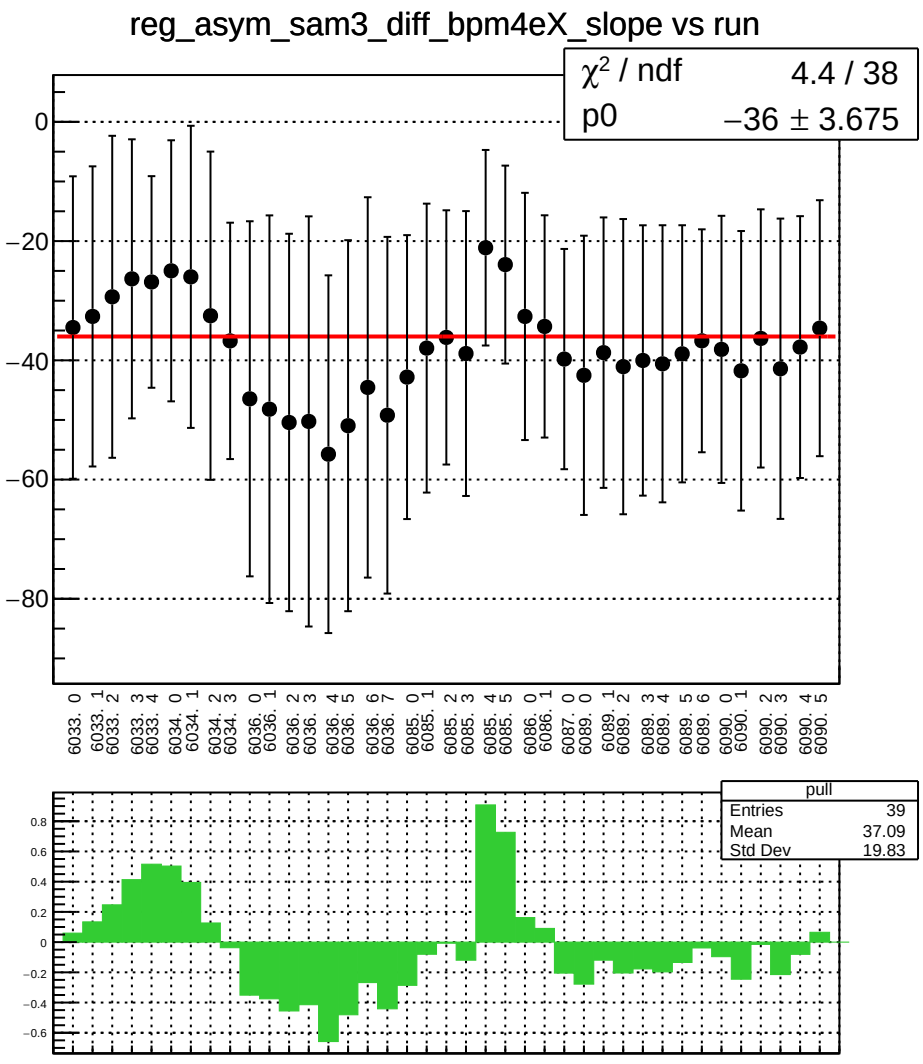

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.701 / 38
p0 −1.869 ± 0.3665
pull
Entries 39
Mean −39.45
Std Dev 59.13

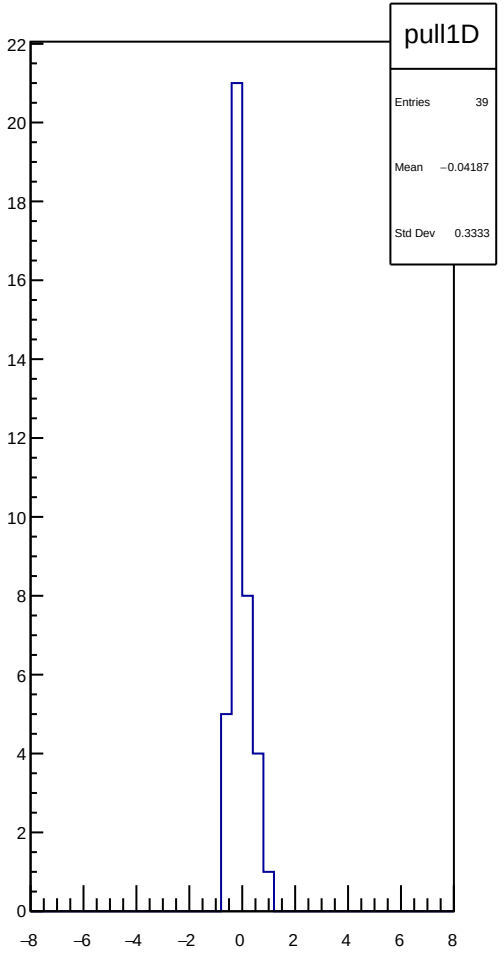

pull1D
Entries 39
Mean 0.02391
Std Dev 0.2621

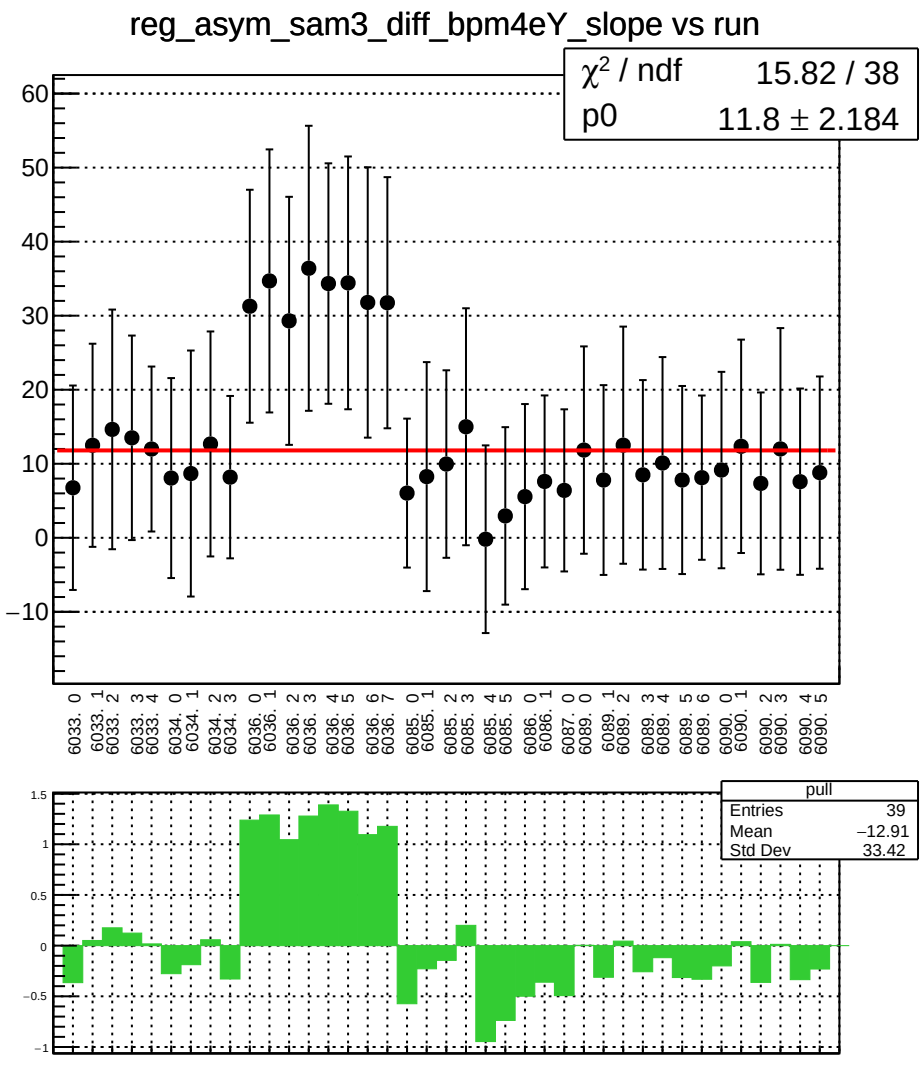

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 4.889 / 38
p0 −75.75 ± 3.252
pull
Entries 39
Mean 127.7
Std Dev 110.3

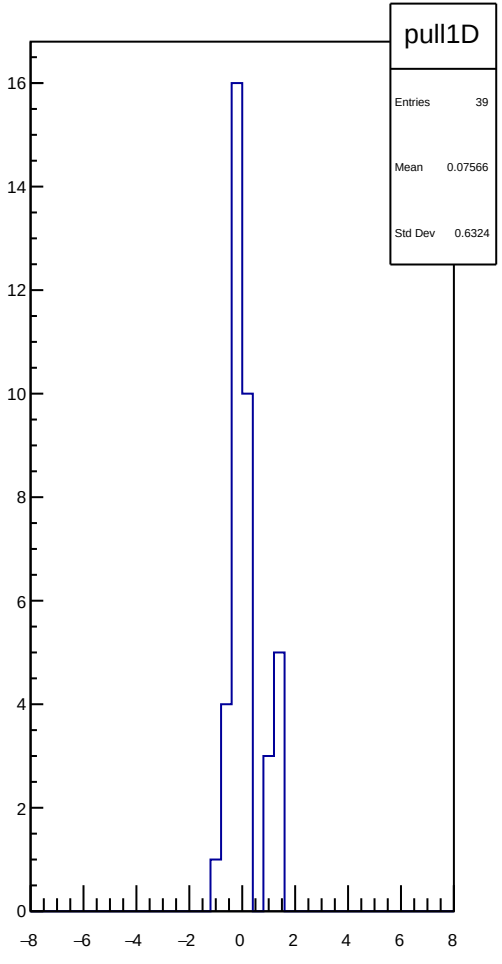

pull1D
Entries 39
Mean 0.01781
Std Dev 0.3536

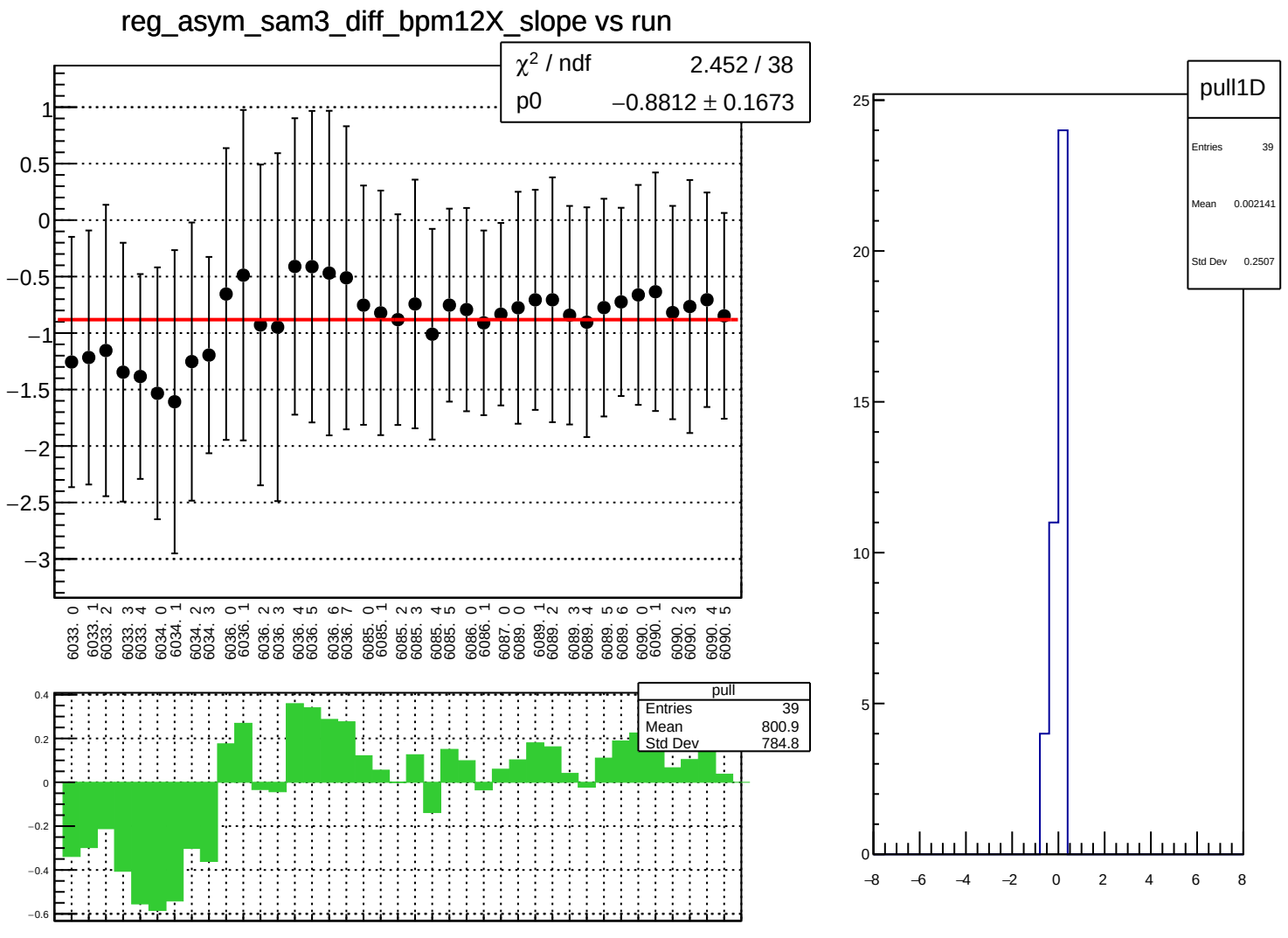

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 9.919 / 38
p0 6.315 ± 2.056
pull
Entries 39
Mean −44.26
Std Dev 63.75
pull1D
Entries 39
Mean −0.04479
Std Dev 0.5023

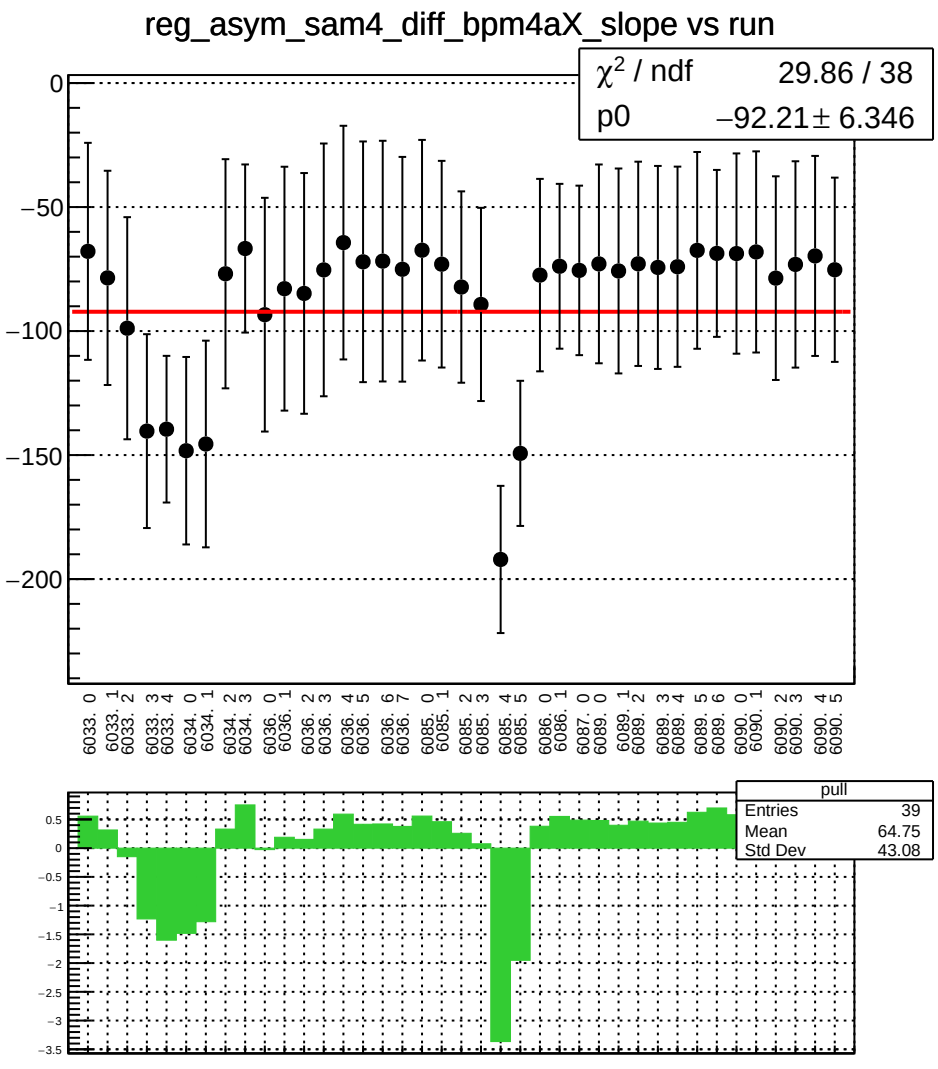

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 4.4 / 38
p0 −36 ± 3.675
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089.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

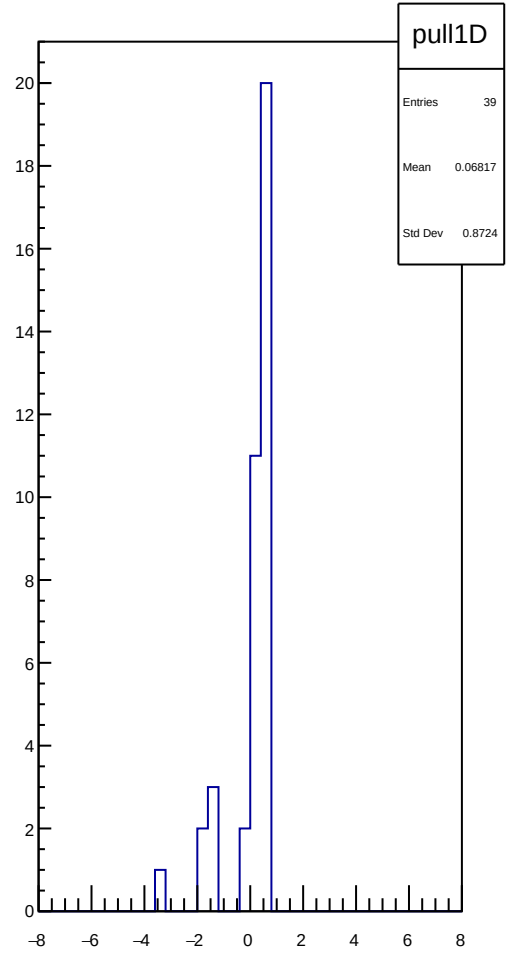

pull1D
Entries 39
Mean −0.04187
Std Dev 0.3333
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

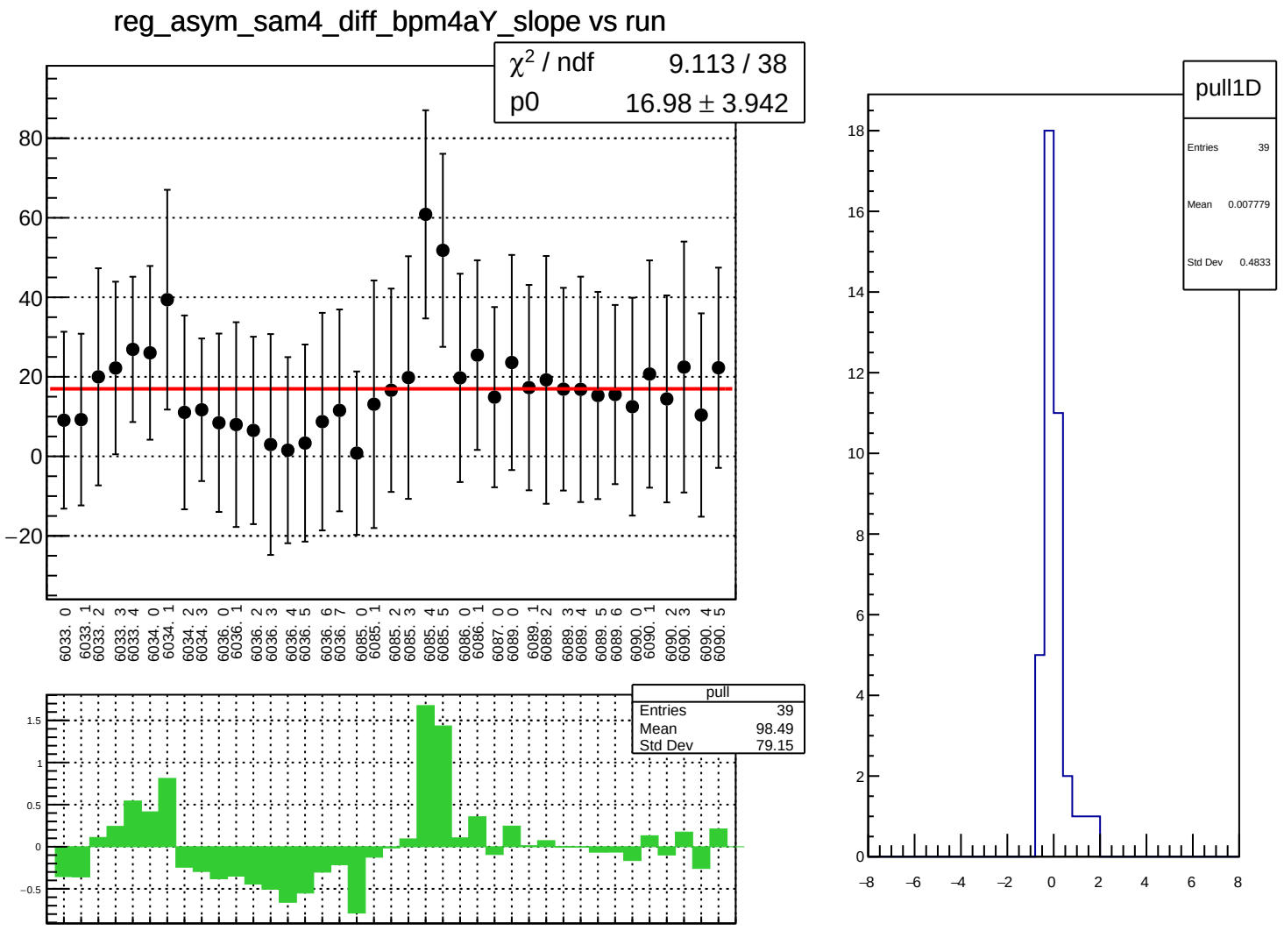

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 15.82 / 38
p0 11.8 ± 2.184
pull
Entries 39
Mean −12.91
Std Dev 33.42

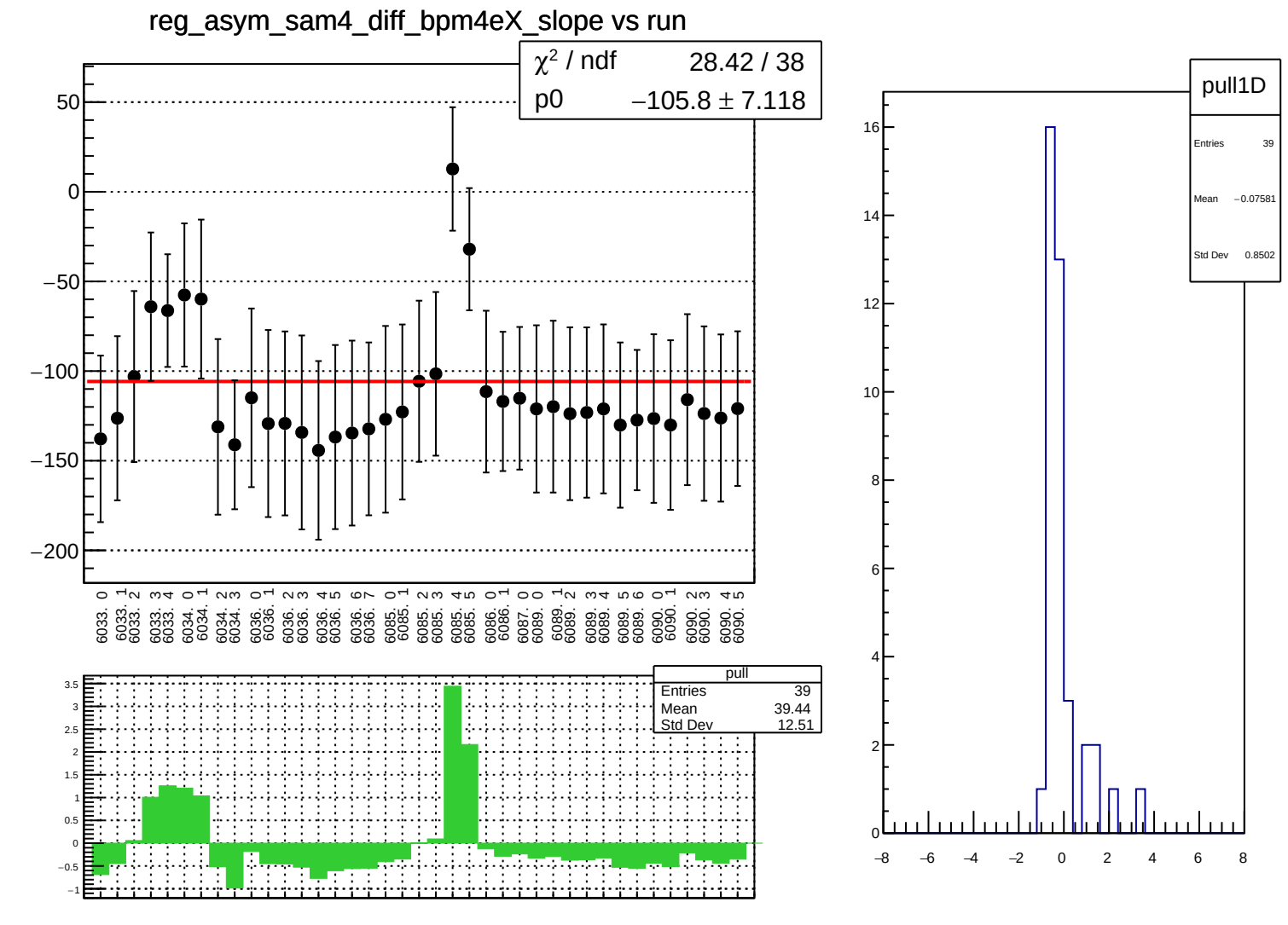

pull1D
Entries 39
Mean 0.07566
Std Dev 0.6324

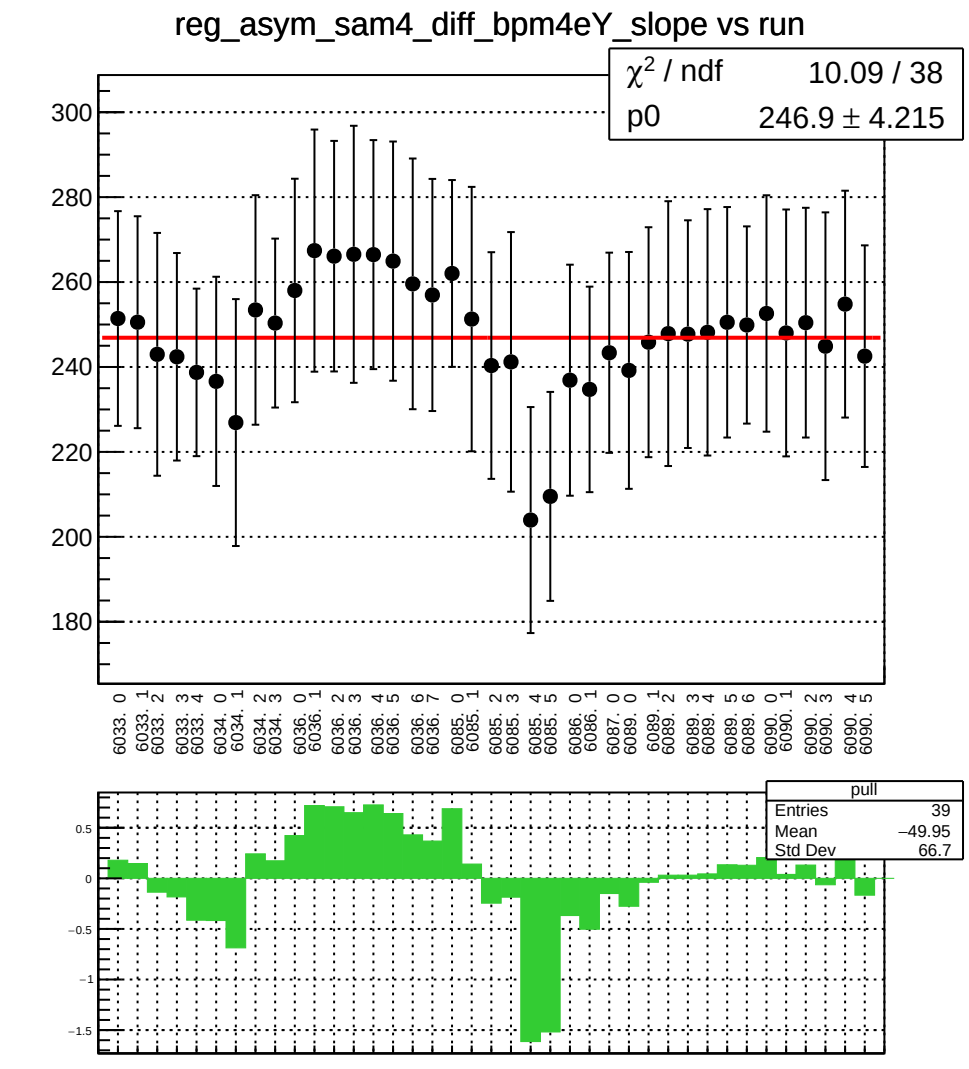

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.452 / 38
p0 −0.8812 ± 0.1673
pull
Entries 39
Mean 800.9
Std Dev 784.8
pull1D
Entries 39
Mean 0.002141
Std Dev 0.2507

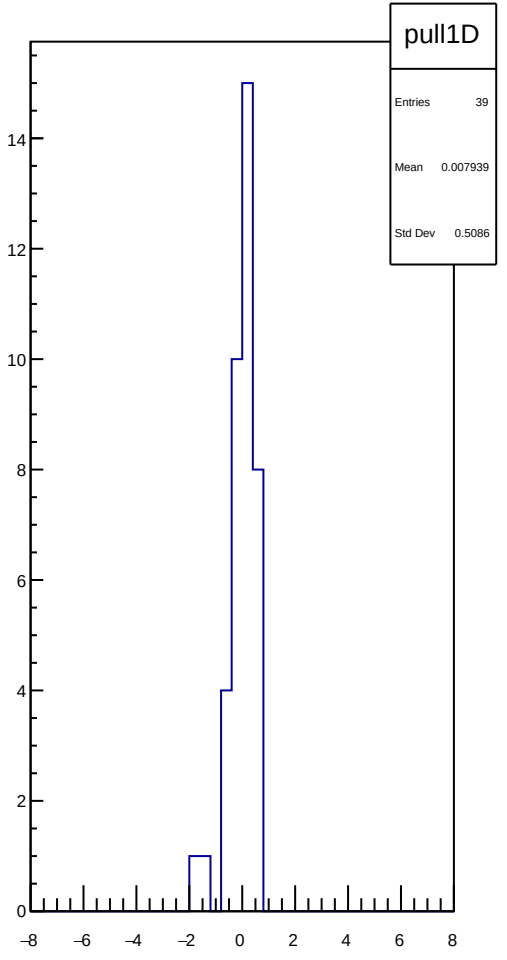

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 29.86 / 38
p0 −92.21 ± 6.346
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

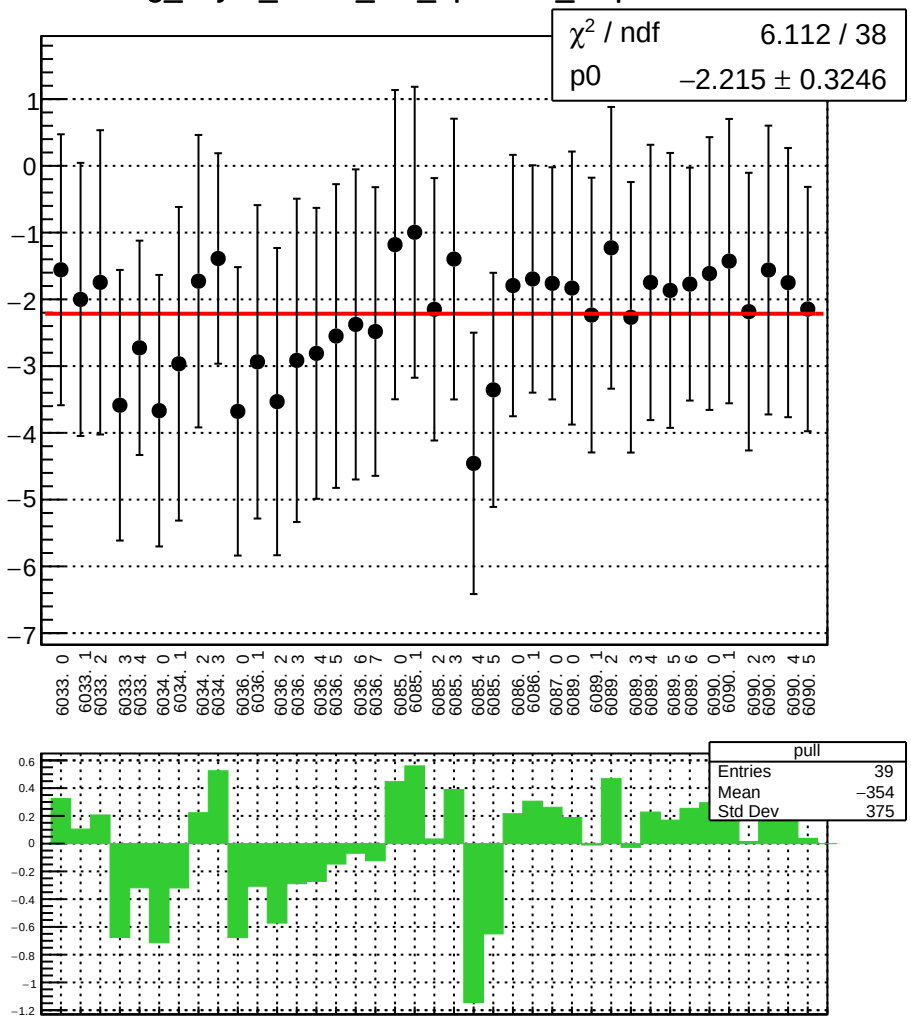

pull1D
Entries 39
Mean 0.06817
Std Dev 0.8724
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

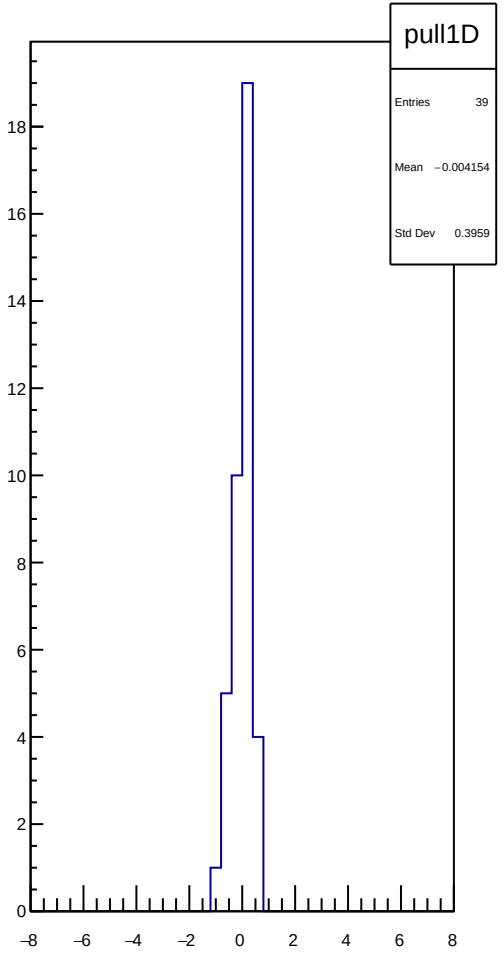

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 9.113 / 38
p0 16.98 ± 3.942
80
60
40
20
0
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

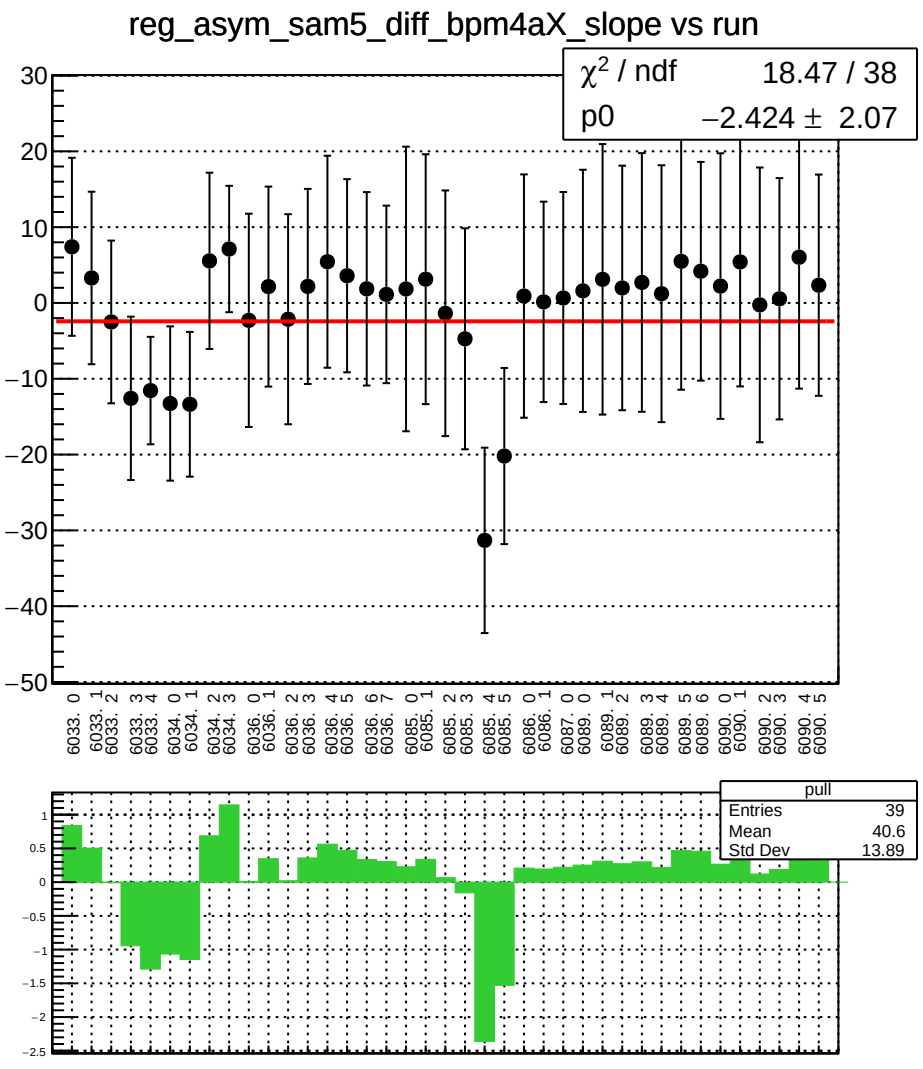

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 28.42 / 38
p0 −105.8 ± 7.118
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1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

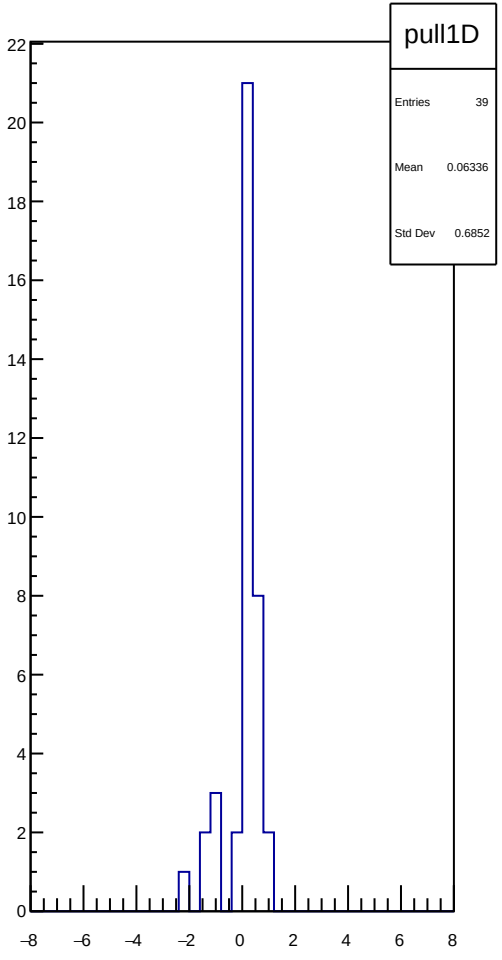

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 10.09 / 38
p0 246.9 ± 4.215
300
280
260
240
220
200
180
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

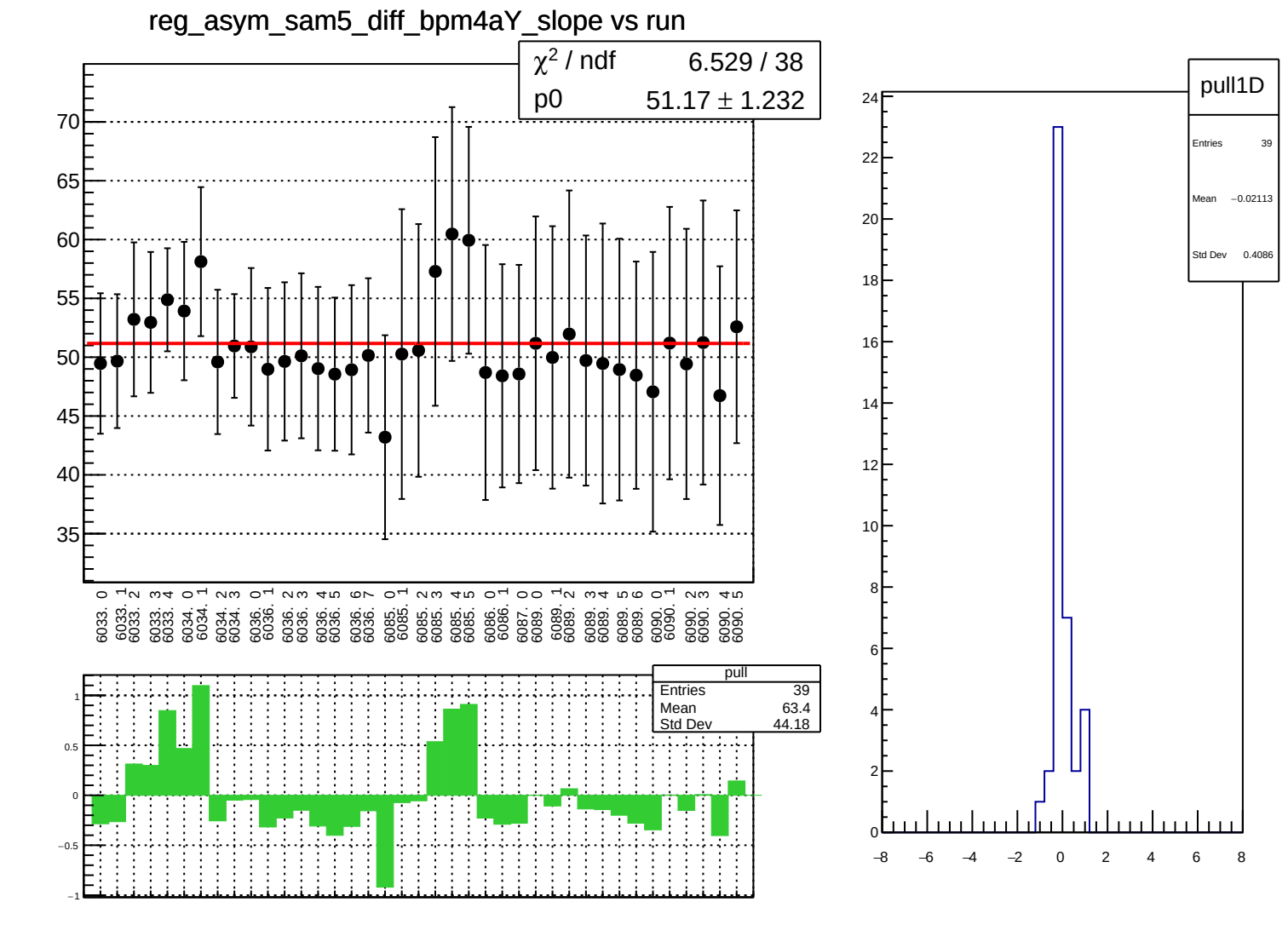

pull1D
Entries 39
Mean 0.007939
Std Dev 0.5086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

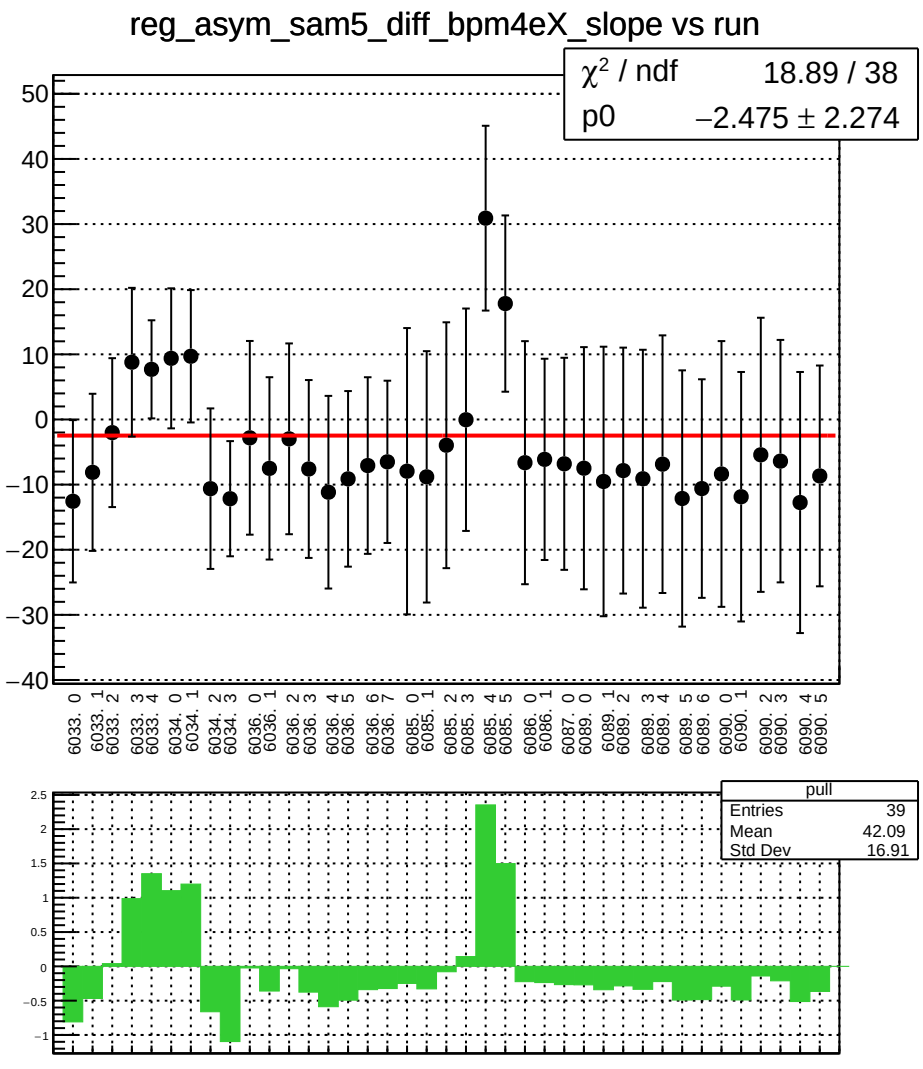

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 6.112 / 38
p0 −2.215 ± 0.3246
pull
Entries 39
Mean −354
Std Dev 375

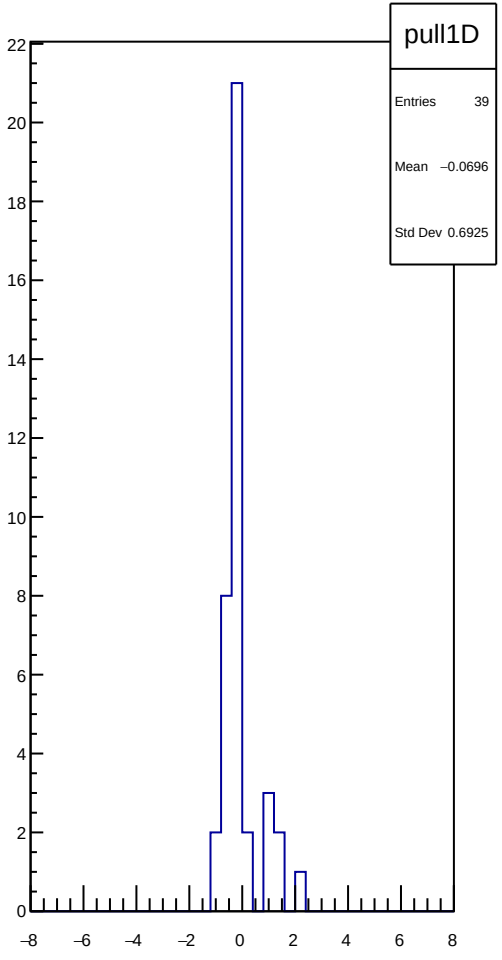

pull1D
Entries 39
Mean −0.004154
Std Dev 0.3959

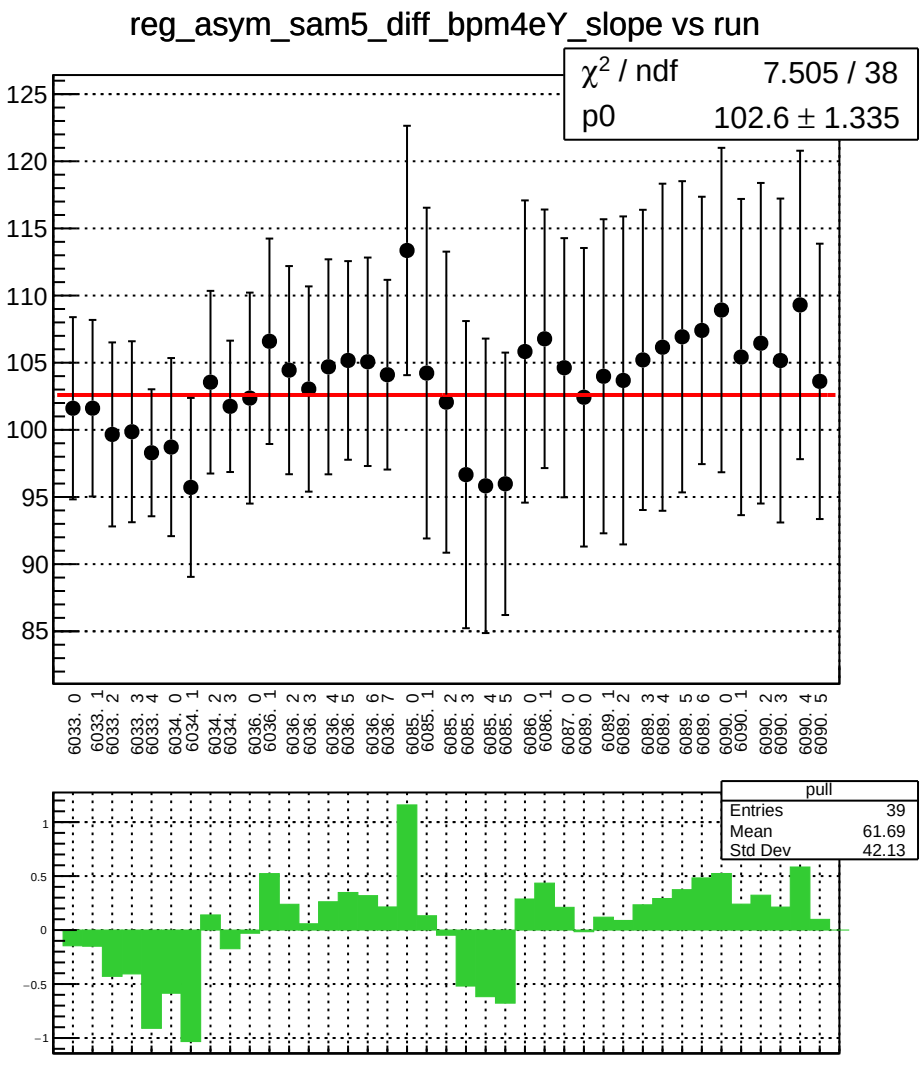

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 18.47 / 38
p0 −2.424 ± 2.07
pull
Entries 39
Mean 40.6
Std Dev 13.89

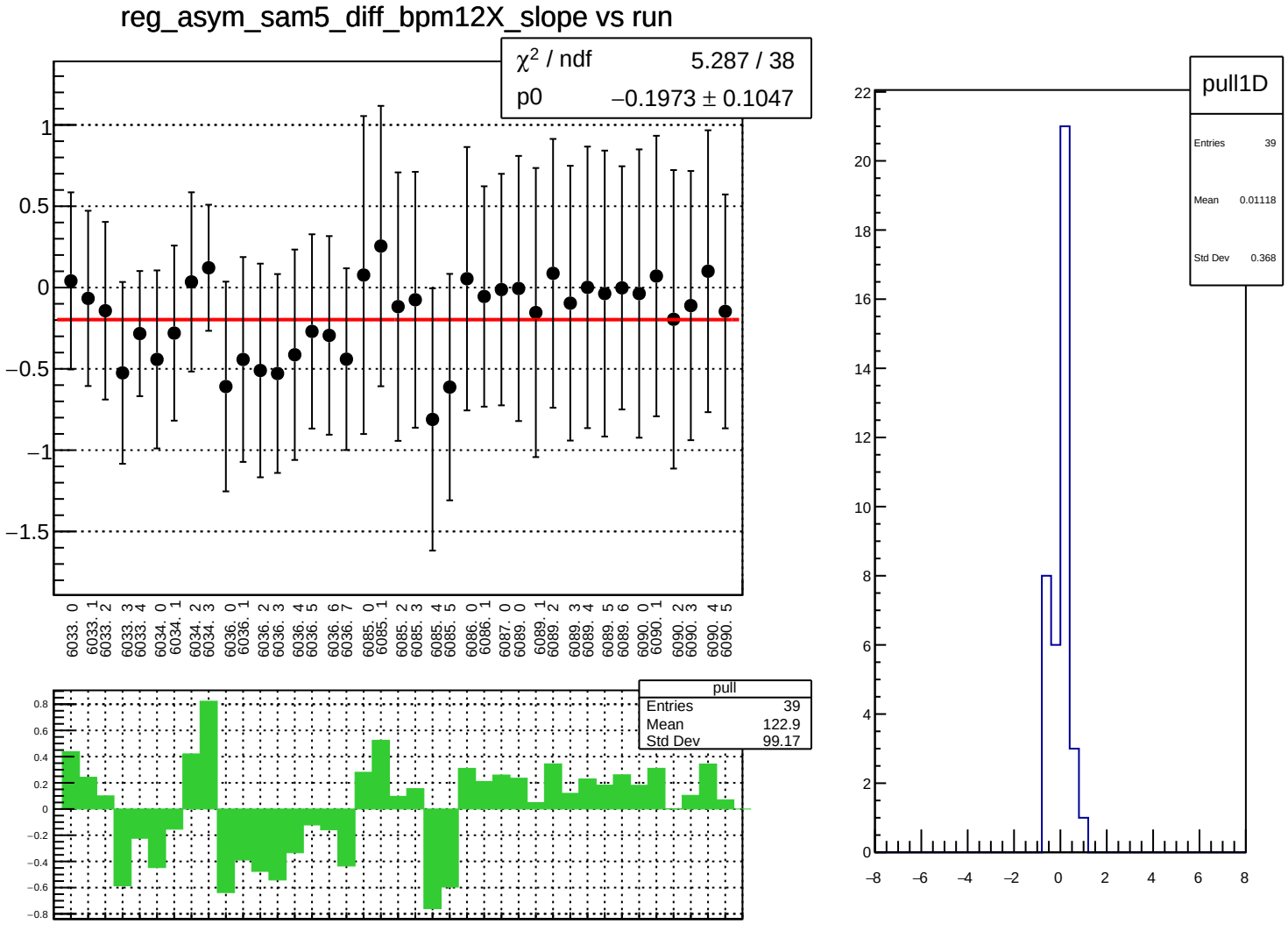

pull1D
Entries 39
Mean 0.06336
Std Dev 0.6852

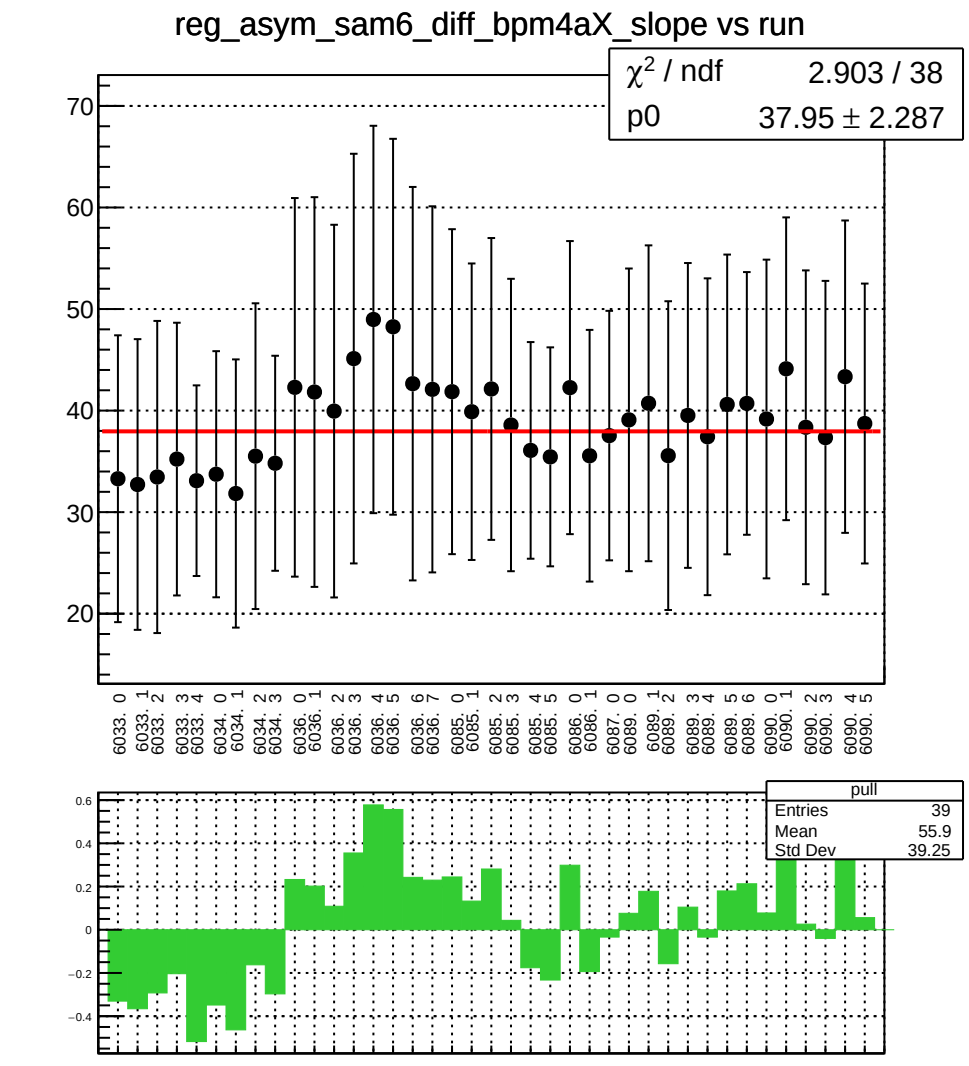

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.529 / 38
p0 51.17 ± 1.232
pull
Entries 39
Mean 63.4
Std Dev 44.18
pull1D
Entries 39
Mean −0.02113
Std Dev 0.4086

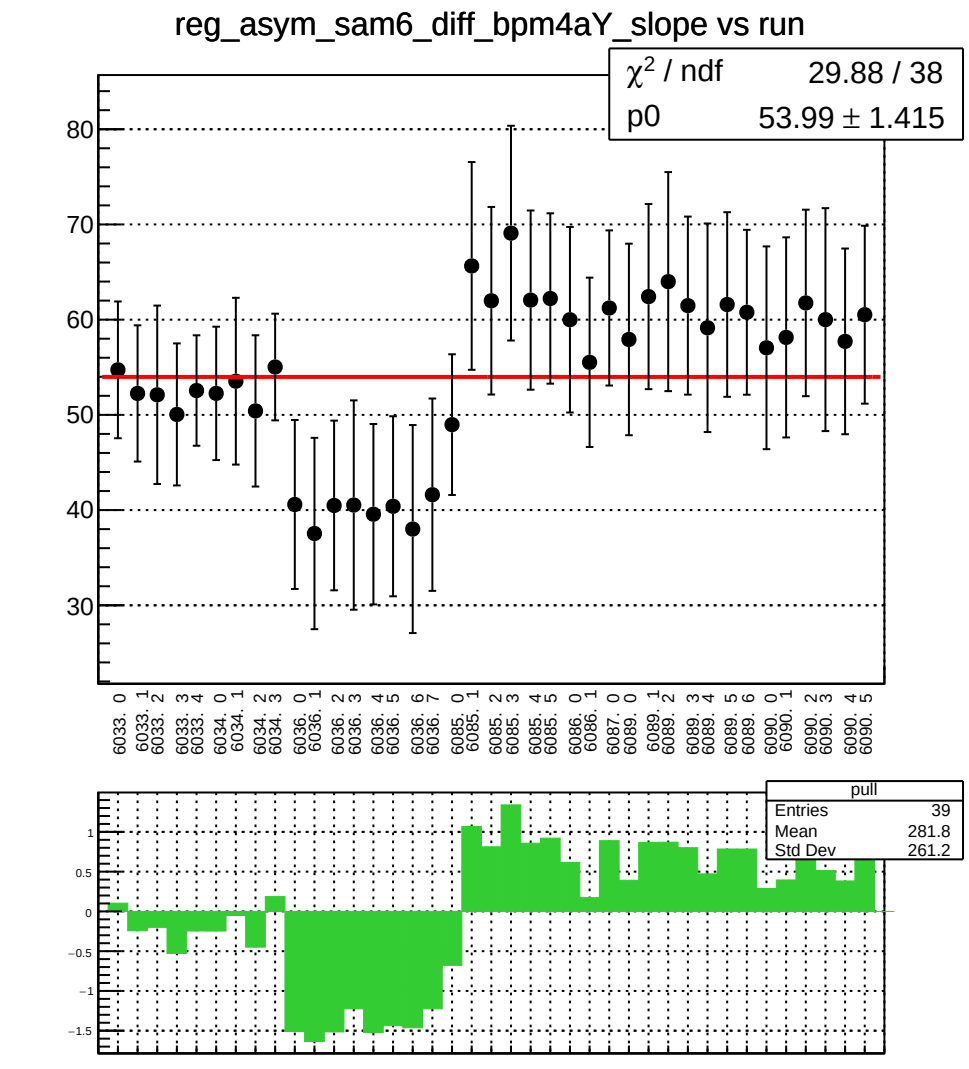

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 18.89 / 38
p0 −2.475 ± 2.274
pull
Entries 39
Mean 42.09
Std Dev 16.91

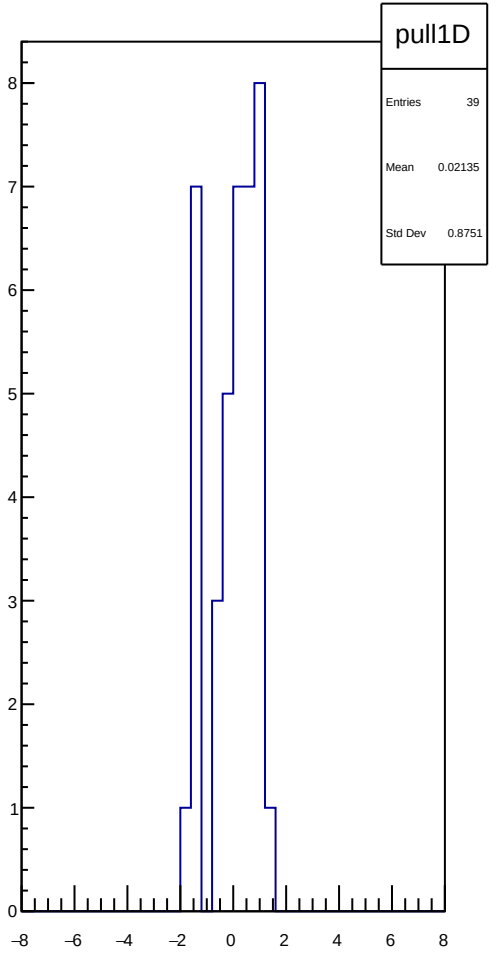

pull1D
Entries 39
Mean −0.0696
Std Dev 0.6925

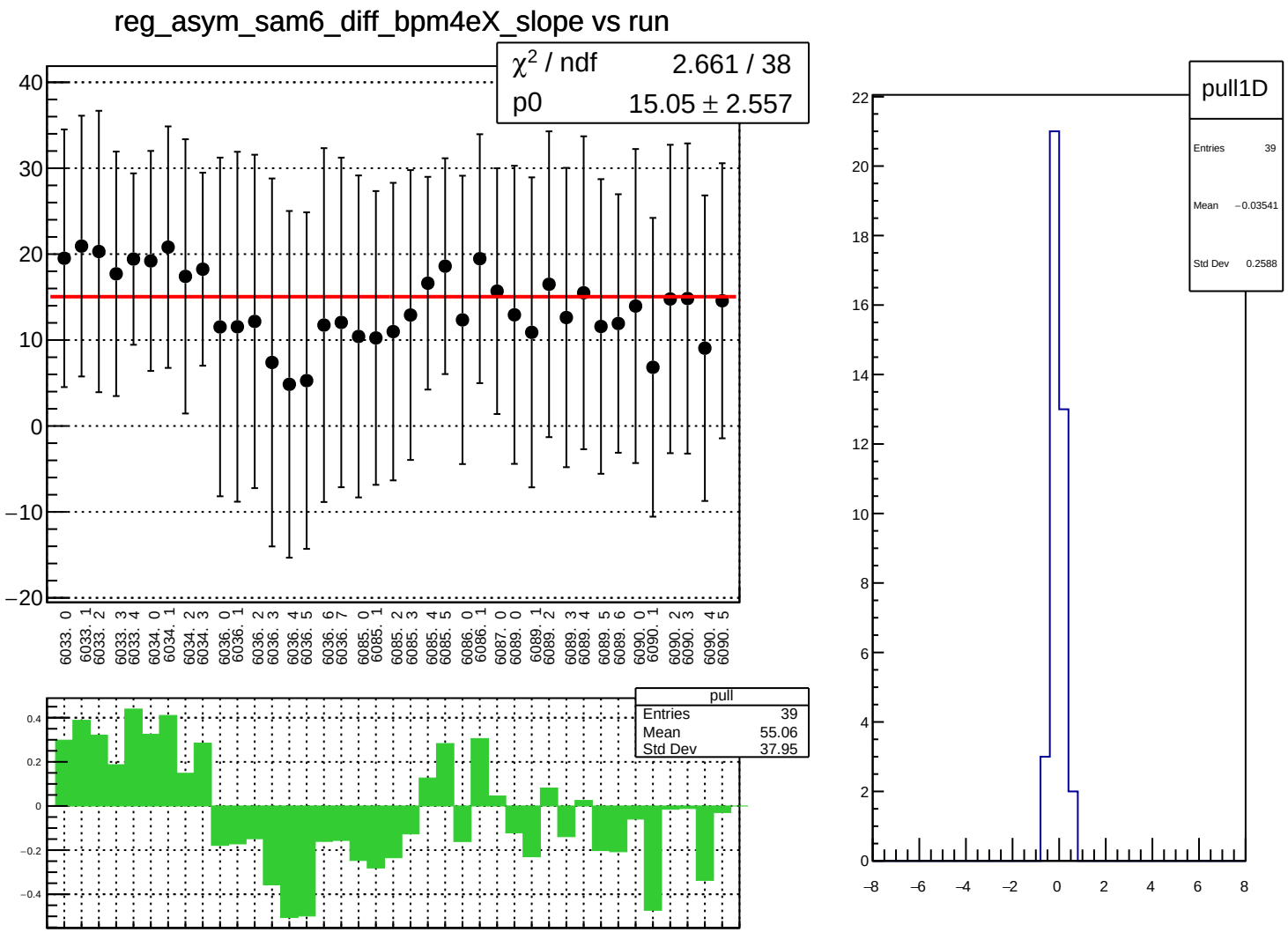

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.505 / 38
p0 102.6 ± 1.335
125
120
115
110
105
100
95
90
85
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0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

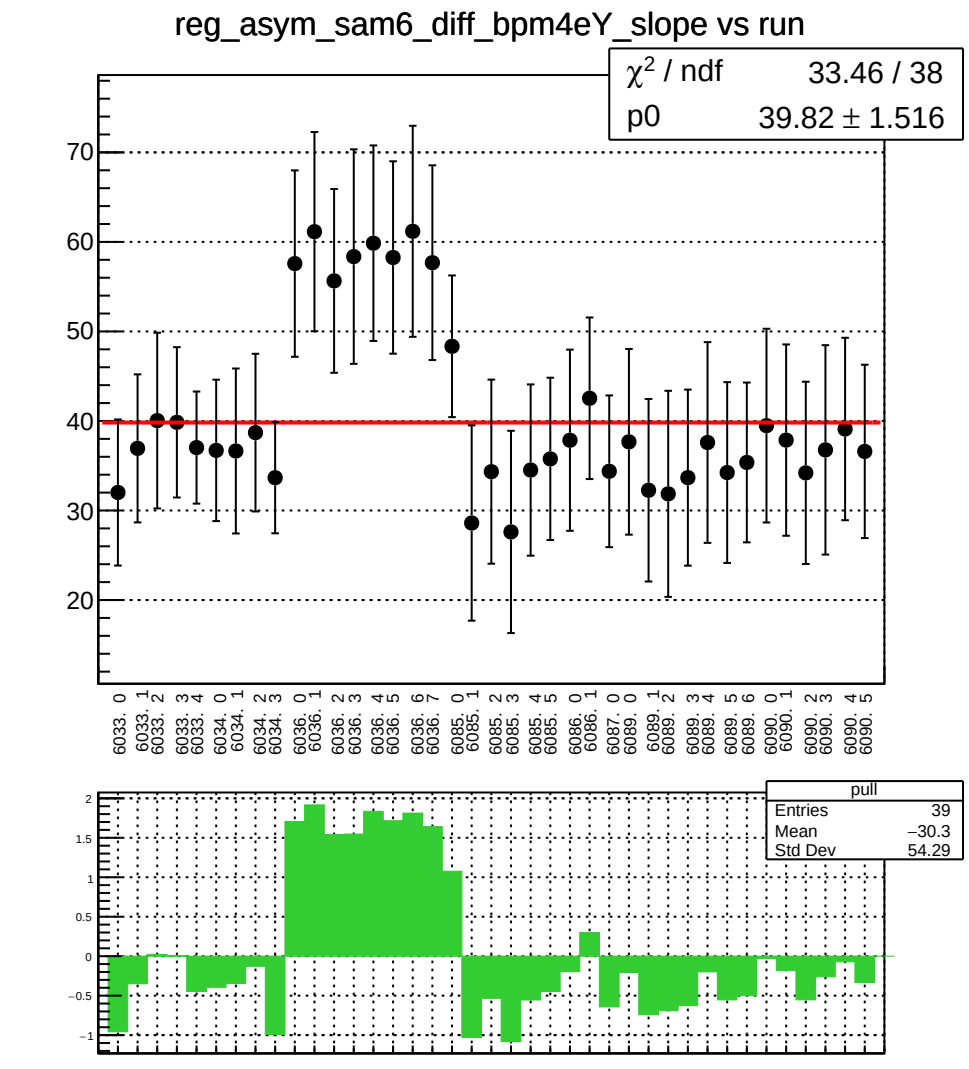

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5.287 / 38
p0 −0.1973 ± 0.1047
pull
Entries 39
Mean 122.9
Std Dev 99.17
pull1D
Entries 39
Mean 0.01118
Std Dev 0.368

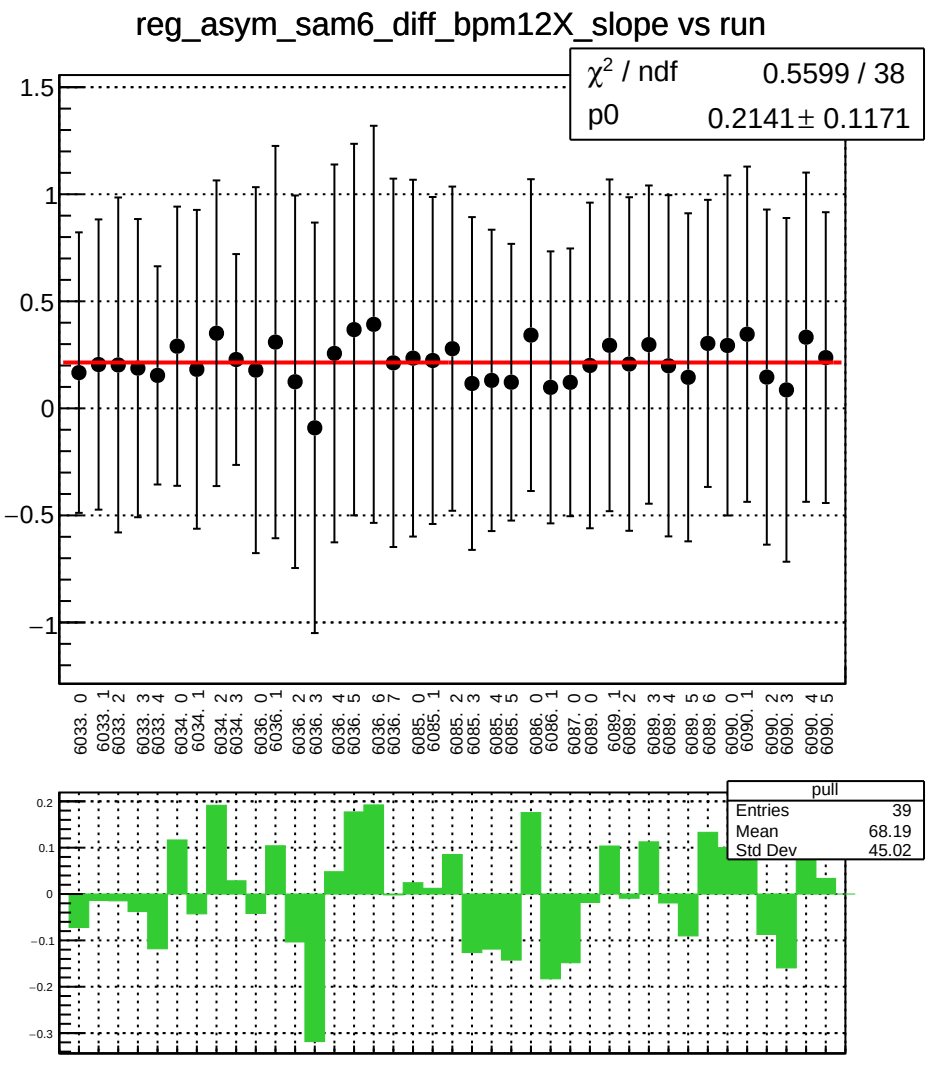

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.903 / 38
p0 37.95 ± 2.287
70
60
50
40
30
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

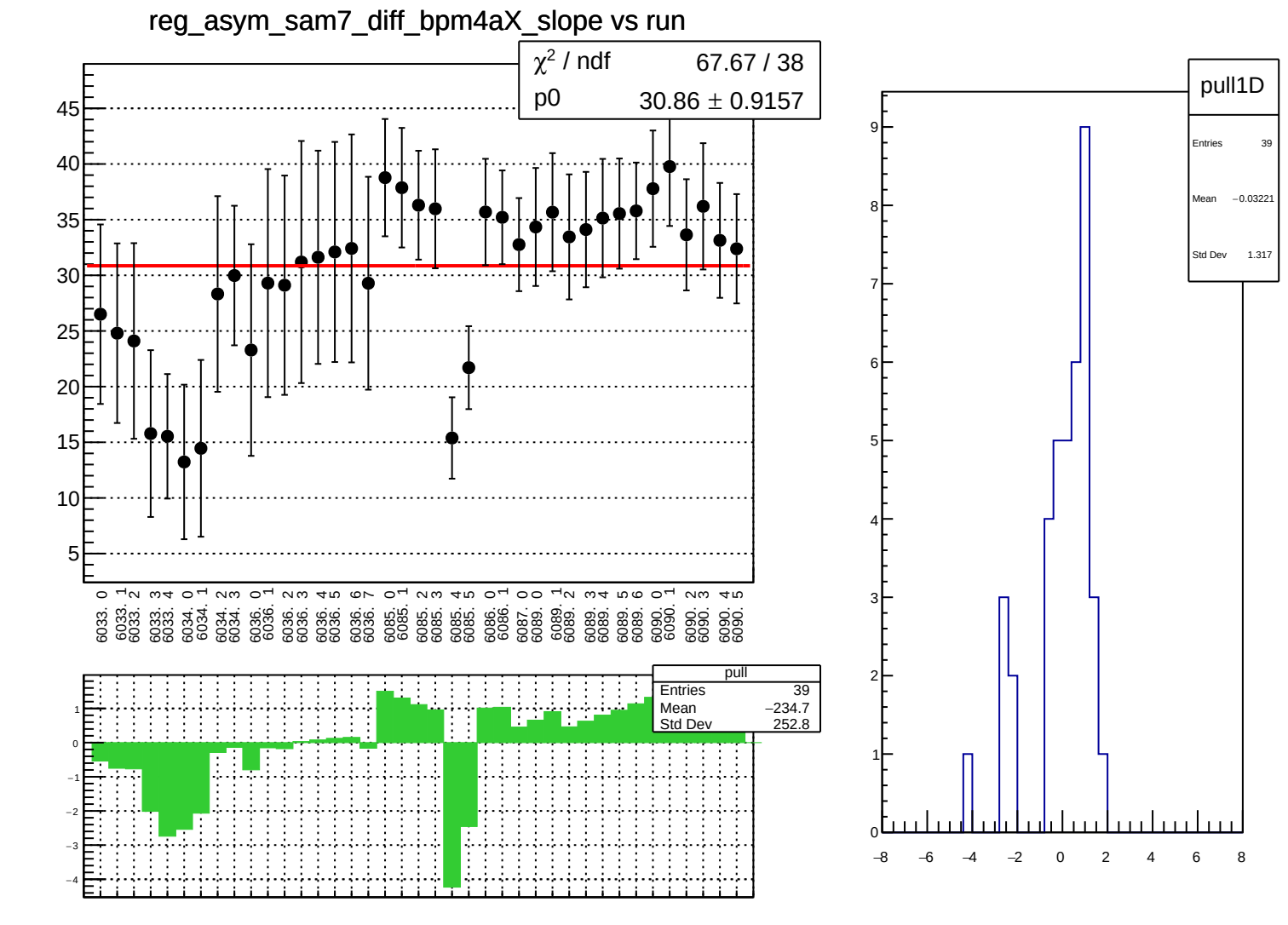

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 29.88 / 38
p0 53.99 ± 1.415
80
70
60
50
40
30
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

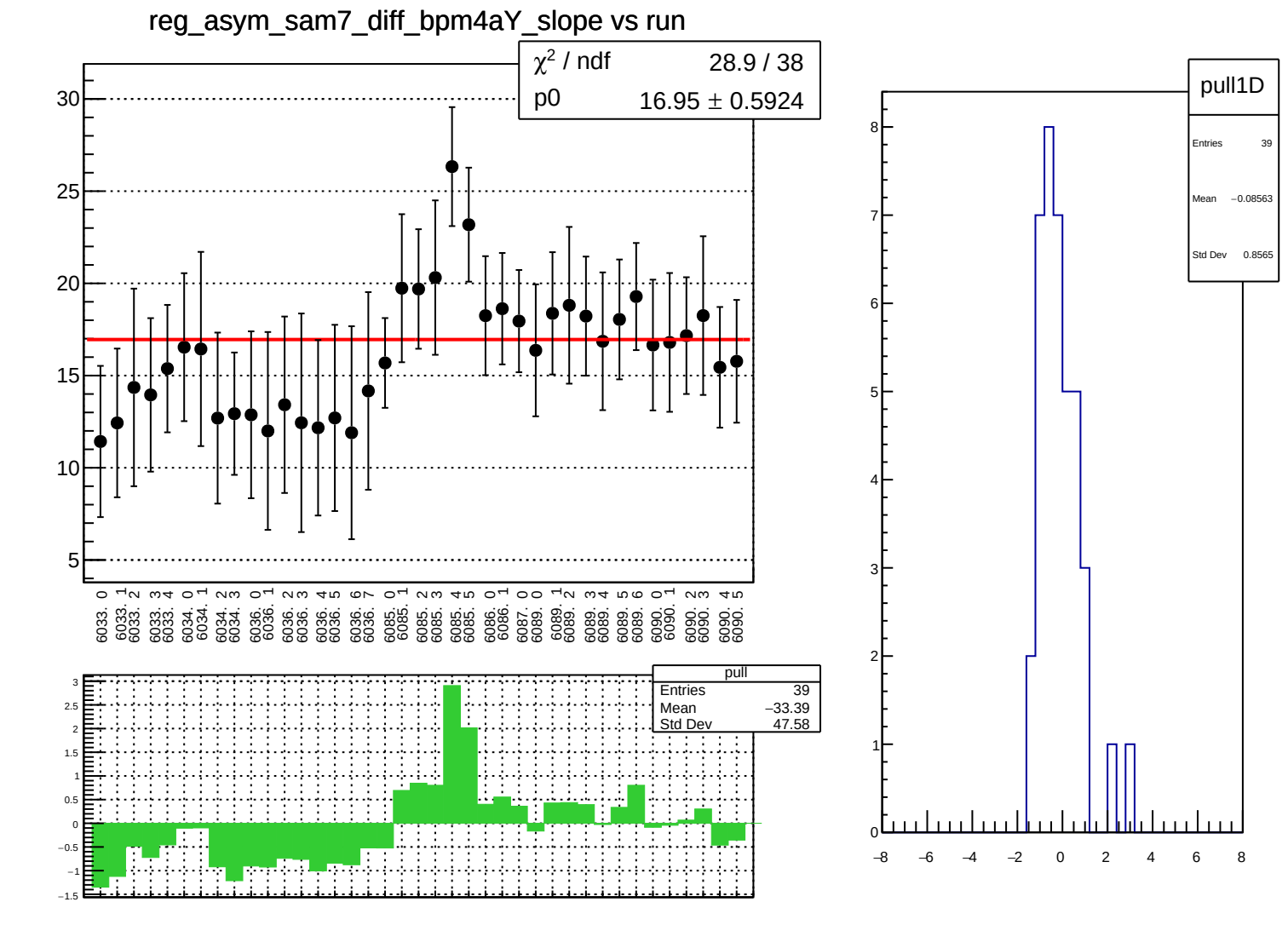

pull1D
Entries 39
Mean 0.02135
Std Dev 0.8751
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

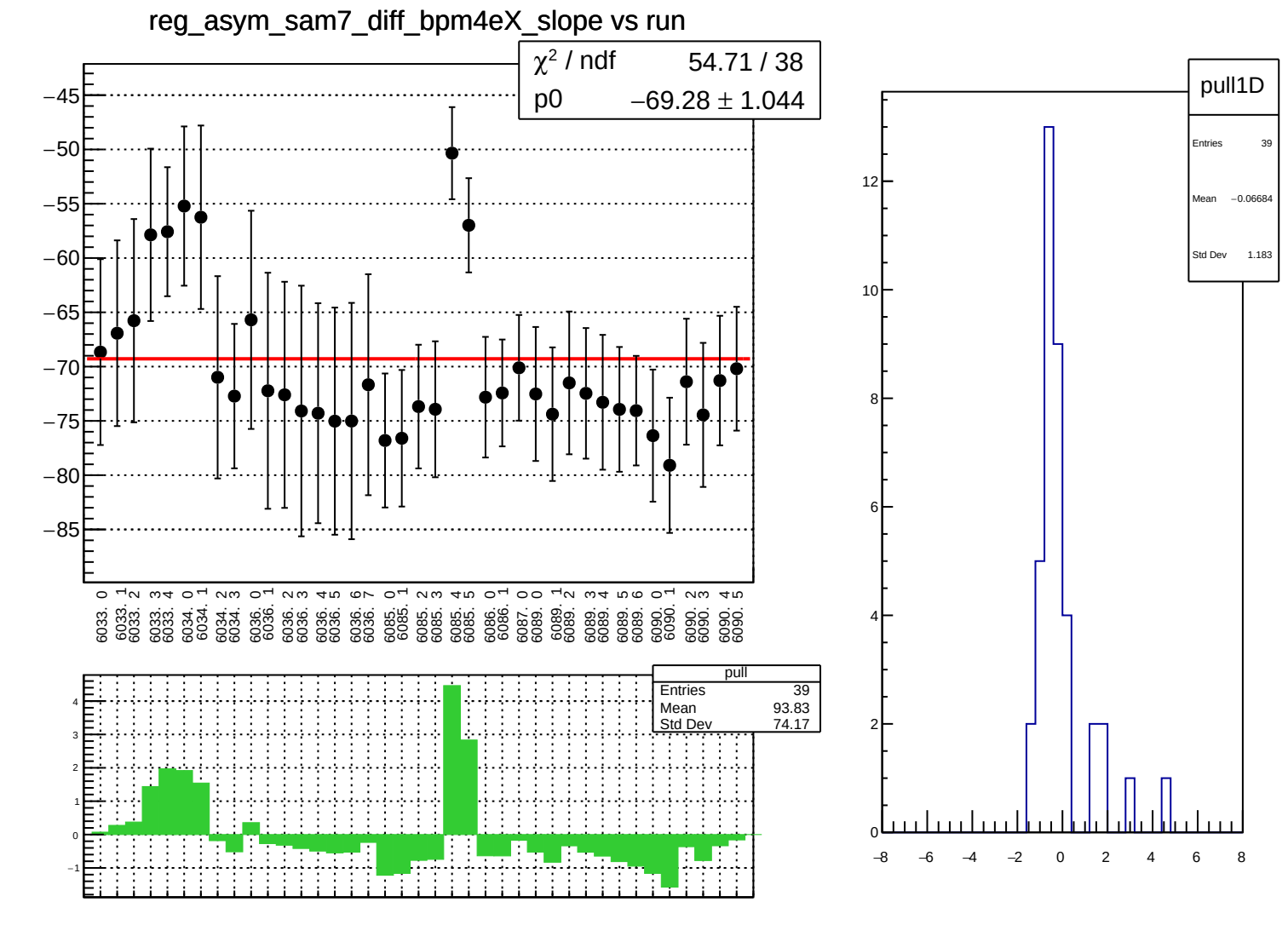

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.661 / 38
p0 15.05 ± 2.557
pull
Entries 39
Mean 55.06
Std Dev 37.95
pull1D
Entries 39
Mean −0.03541
Std Dev 0.2588

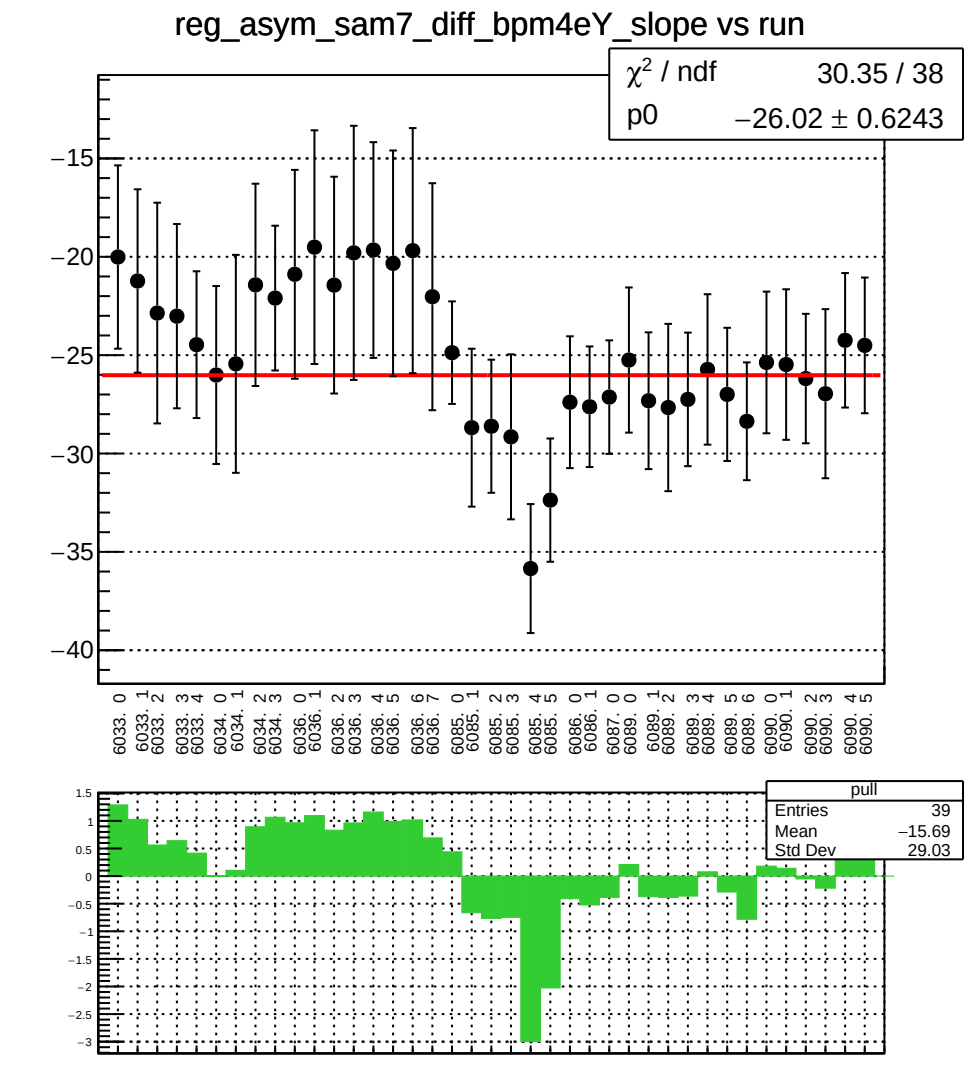

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 33.46 / 38
p0 39.82 ± 1.516
70
60
50
40
30
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

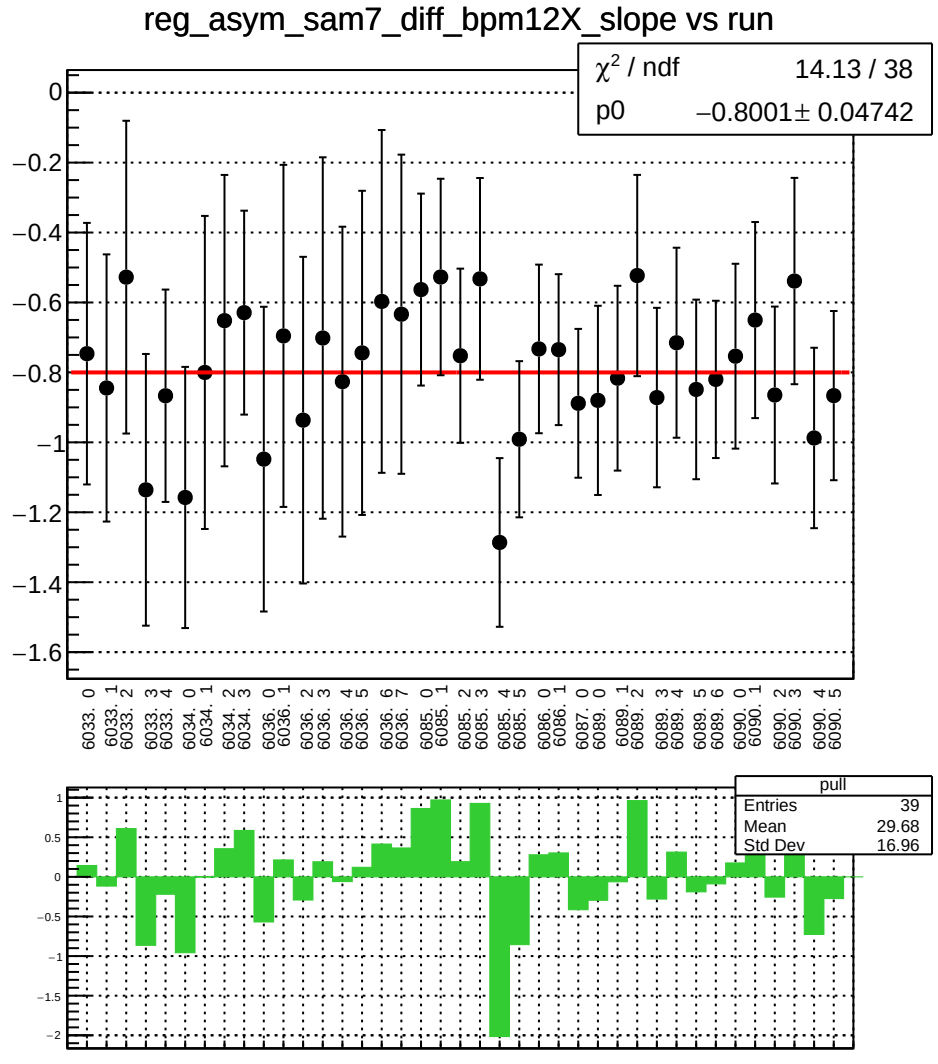

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.5599 / 38
p0 0.2141± 0.1171
1.5
1
0.5
0
−0.5
−1
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087.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

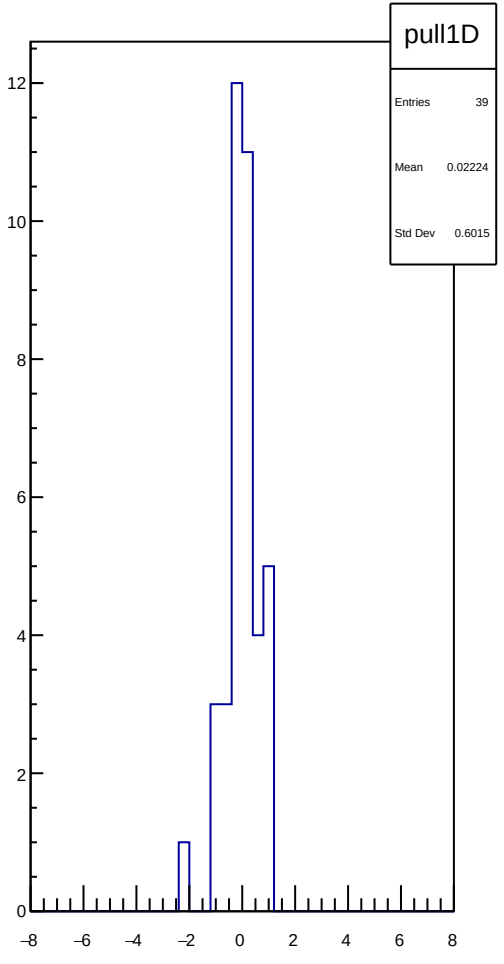

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 67.67 / 38
p0 30.86 ± 0.9157
pull
Entries 39
Mean −234.7
Std Dev 252.8
pull1D
Entries 39
Mean −0.03221
Std Dev 1.317

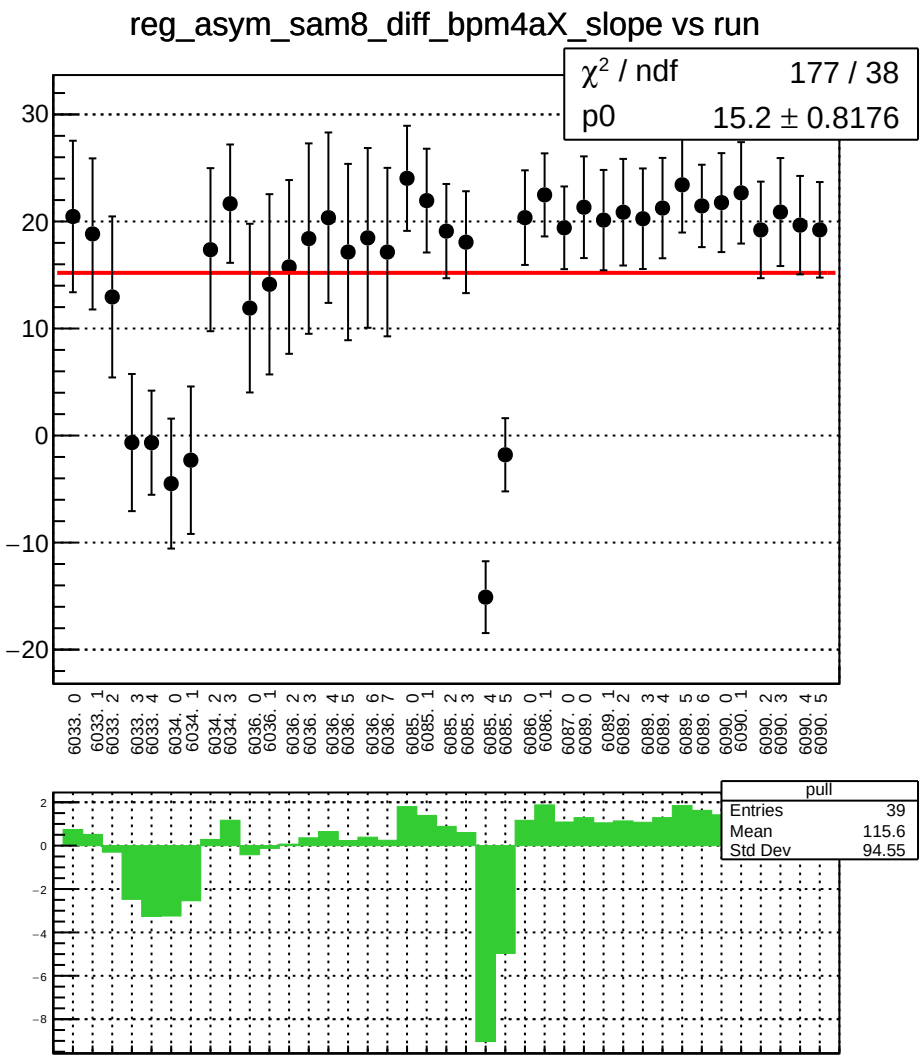

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 28.9 / 38
p0 16.95 ± 0.5924
pull
Entries 39
Mean −33.39
Std Dev 47.58
pull1D
Entries 39
Mean −0.08563
Std Dev 0.8565

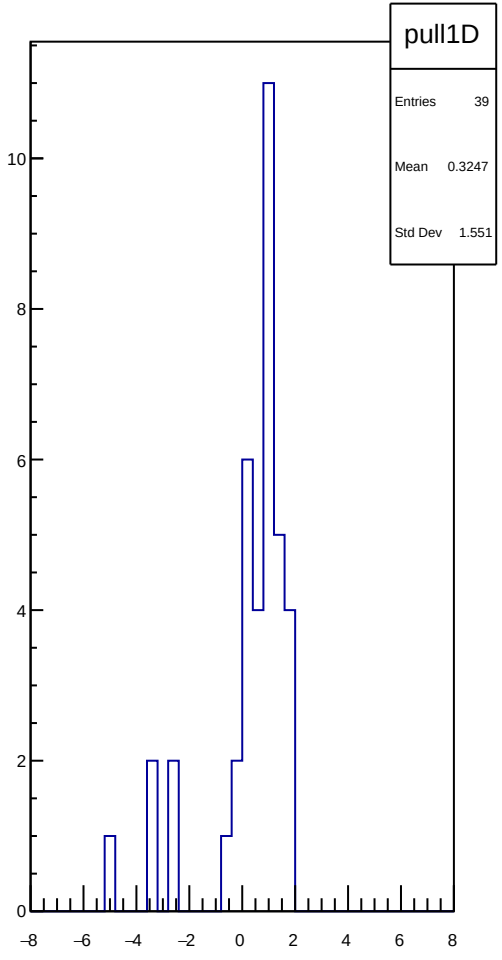

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 54.71 / 38
p0 −69.28 ± 1.044
−45
−50
−55
−60
−65
−70
−75
−80
−85
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086.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

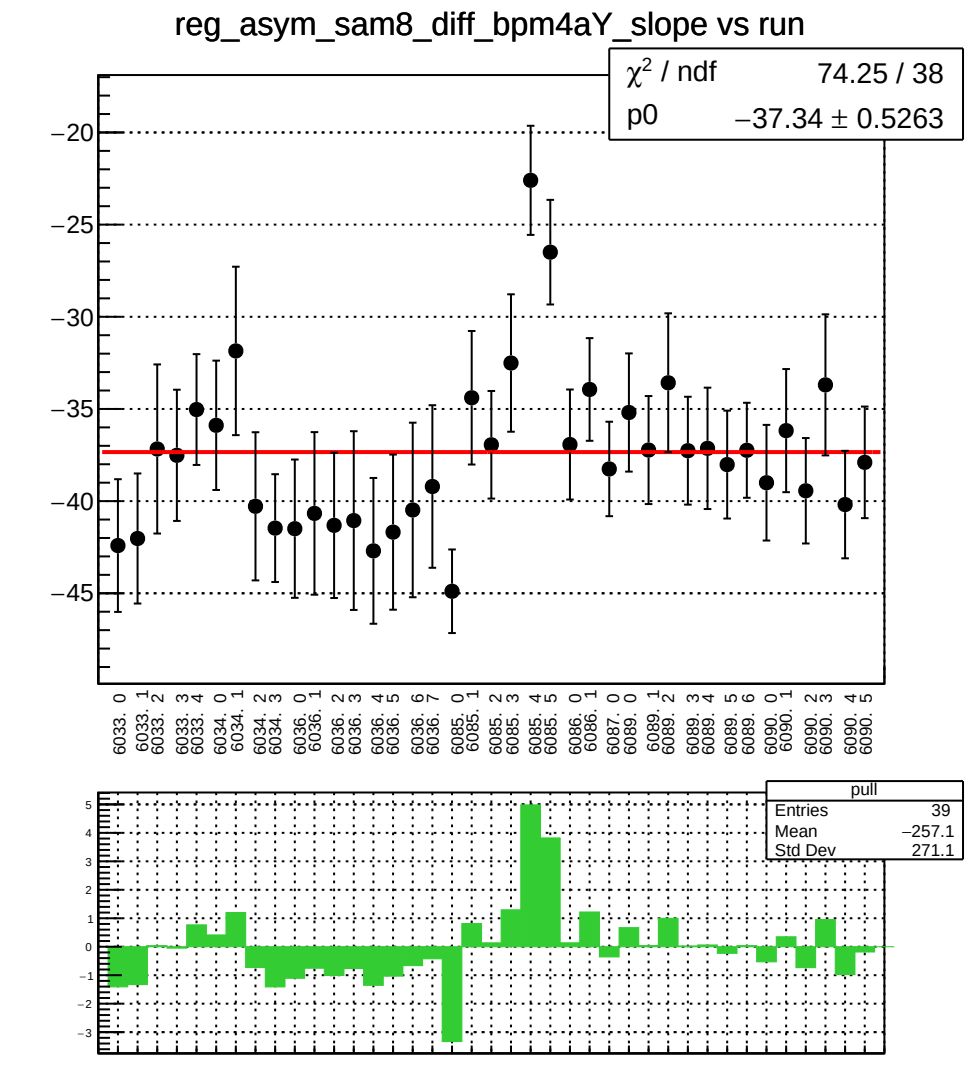

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 30.35 / 38
p0 −26.02 ± 0.6243
−15
−20
−25
−30
−35
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1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

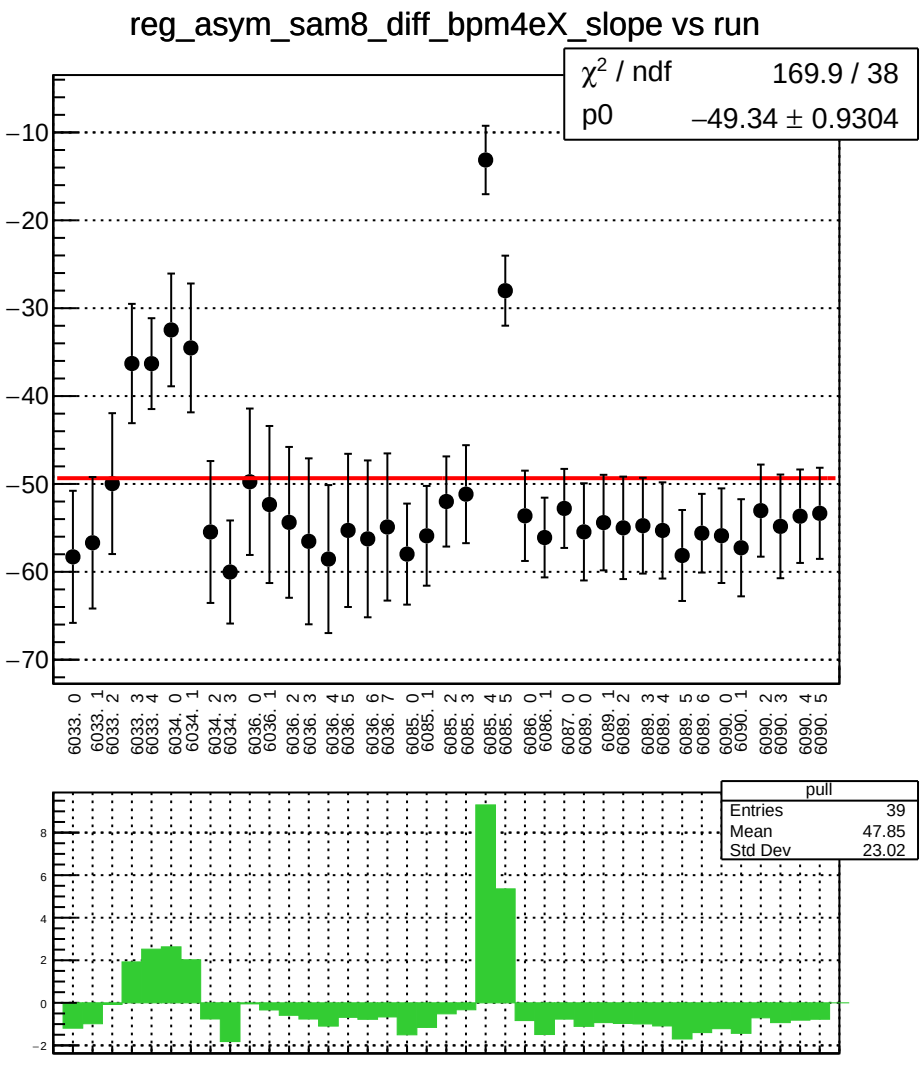

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 14.13 / 38
p0 −0.8001± 0.04742
pull
Entries 39
Mean 29.68
Std Dev 16.96

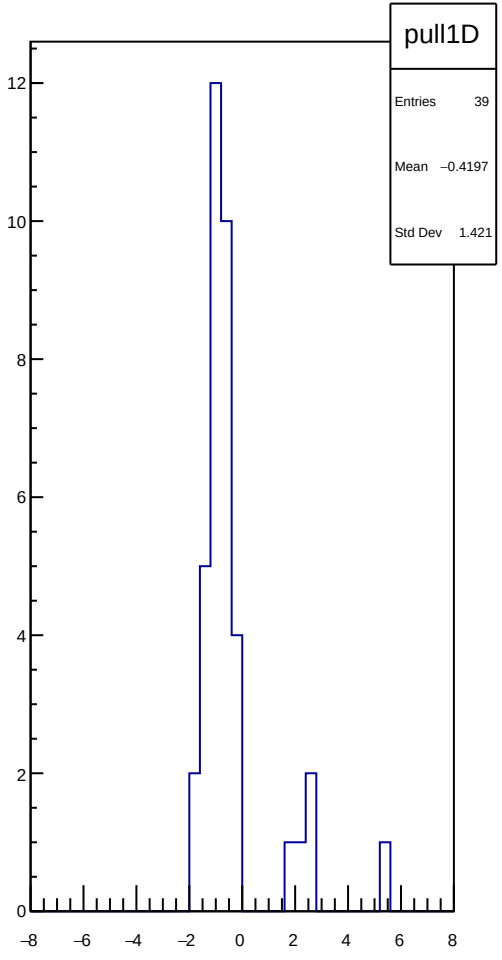

pull1D
Entries 39
Mean 0.02224
Std Dev 0.6015

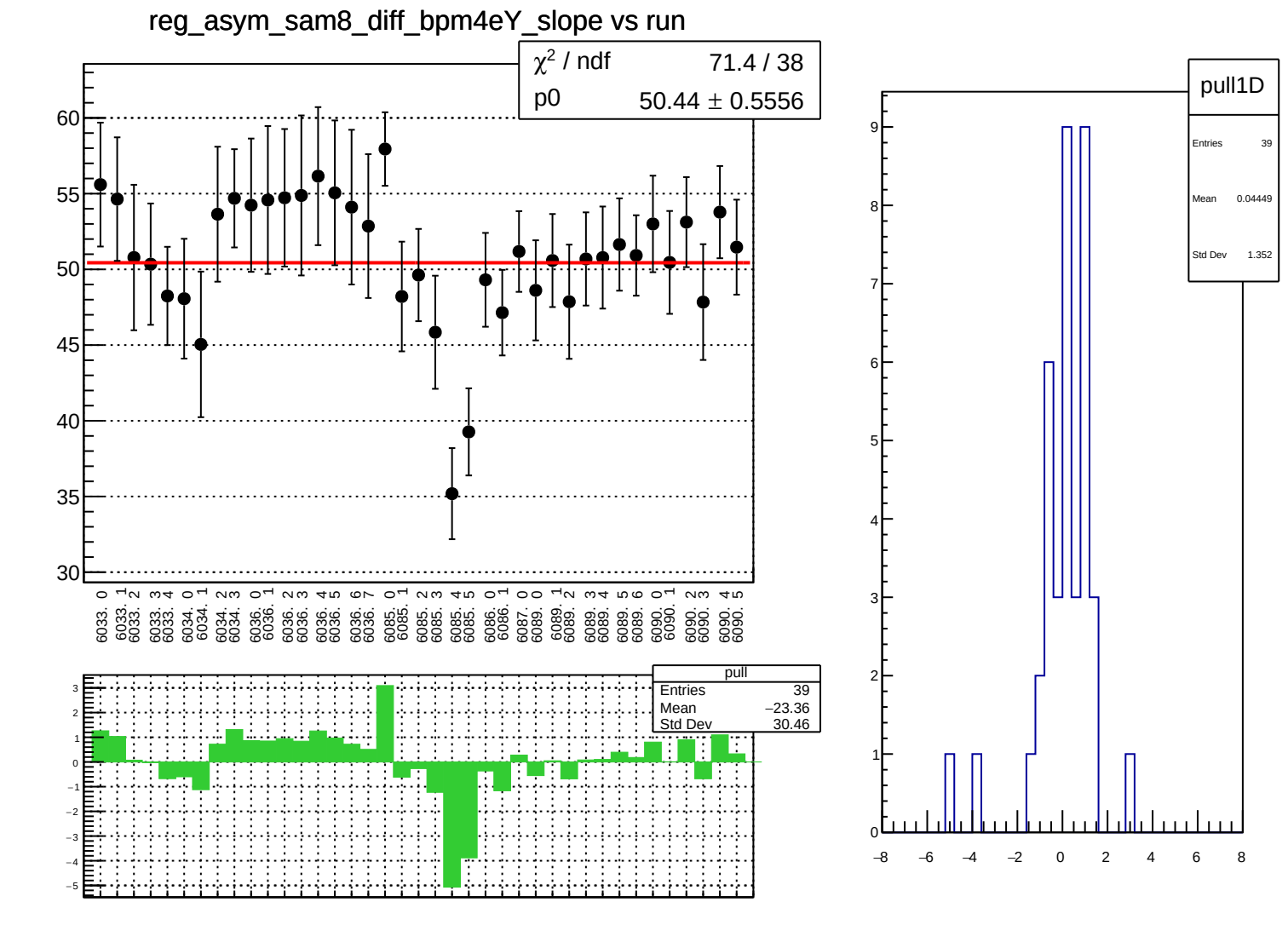

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 177 / 38
p0 15.2 ± 0.8176
30
20
10
0
−10
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0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

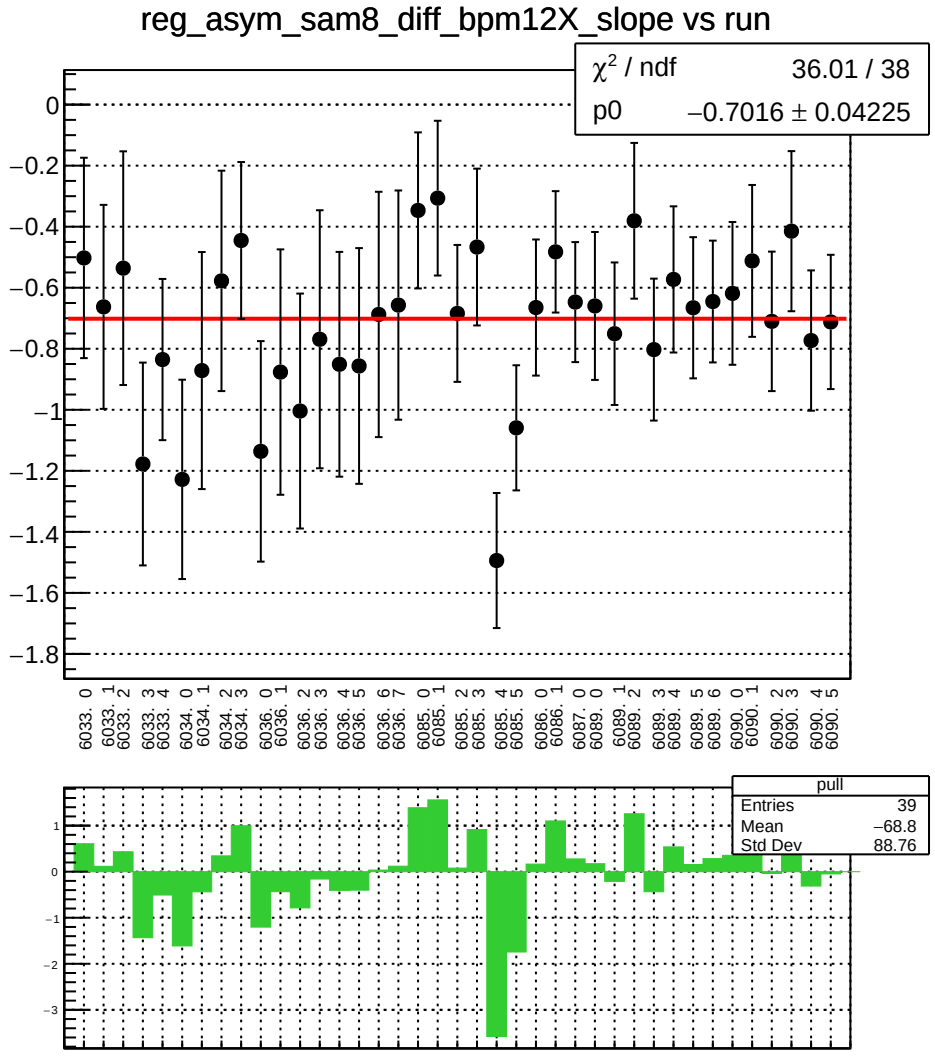

pull1D
Entries 39
Mean 0.3247
Std Dev 1.551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

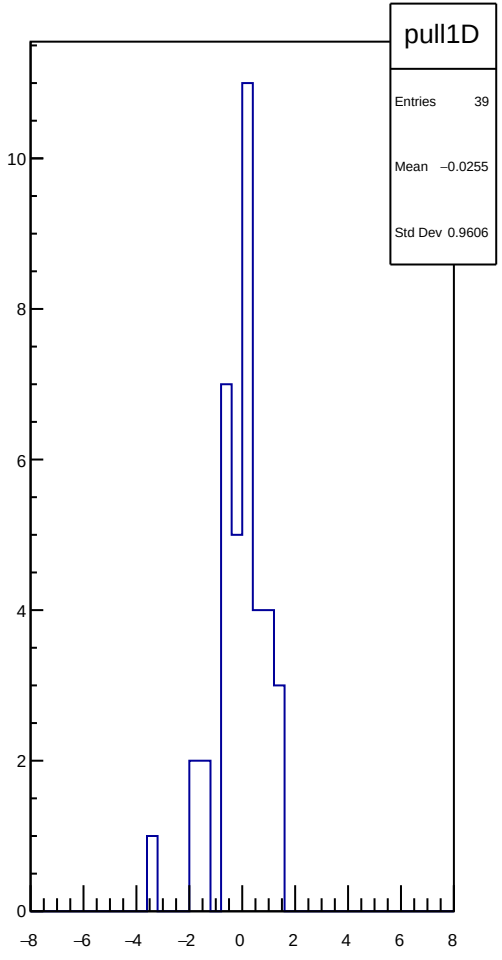

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 74.25 / 38
p0 −37.34 ± 0.5263
−20
−25
−30
−35
−40
−45
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1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

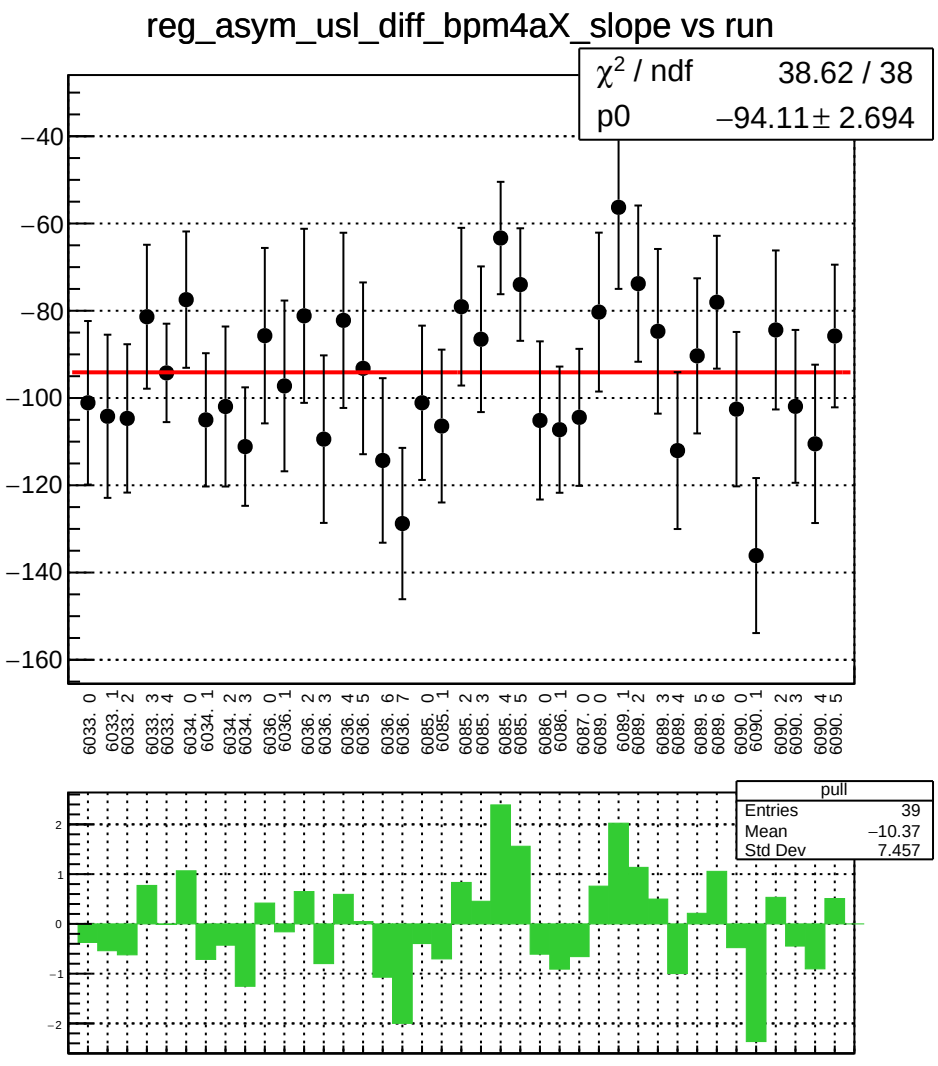

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 169.9 / 38
p0 −49.34 ± 0.9304
pull
Entries 39
Mean 47.85
Std Dev 23.02

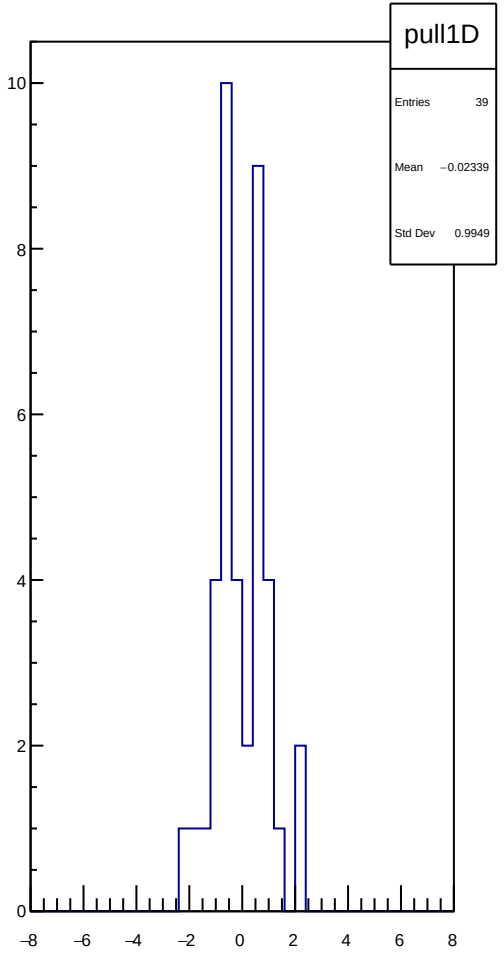

pull1D
Entries 39
Mean −0.4197
Std Dev 1.421

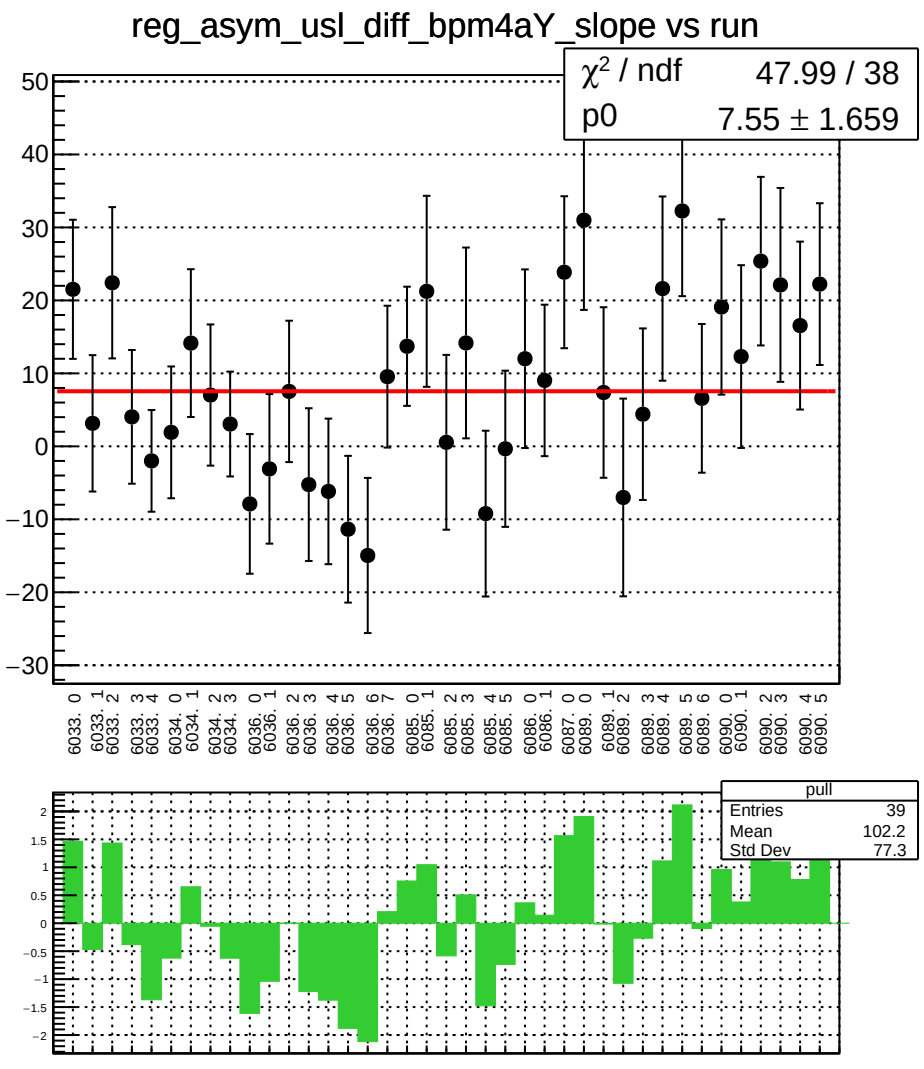

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 71.4 / 38
p0 50.44 ± 0.5556
pull
Entries 39
Mean −23.36
Std Dev 30.46
pull1D
Entries 39
Mean 0.04449
Std Dev 1.352

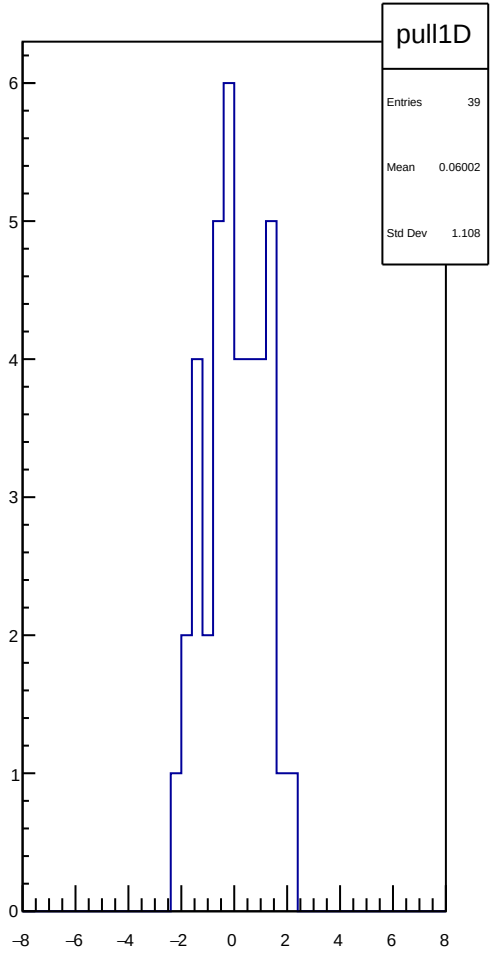

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 36.01 / 38
p0 −0.7016 ± 0.04225
pull
Entries 39
Mean −68.8
Std Dev 88.76

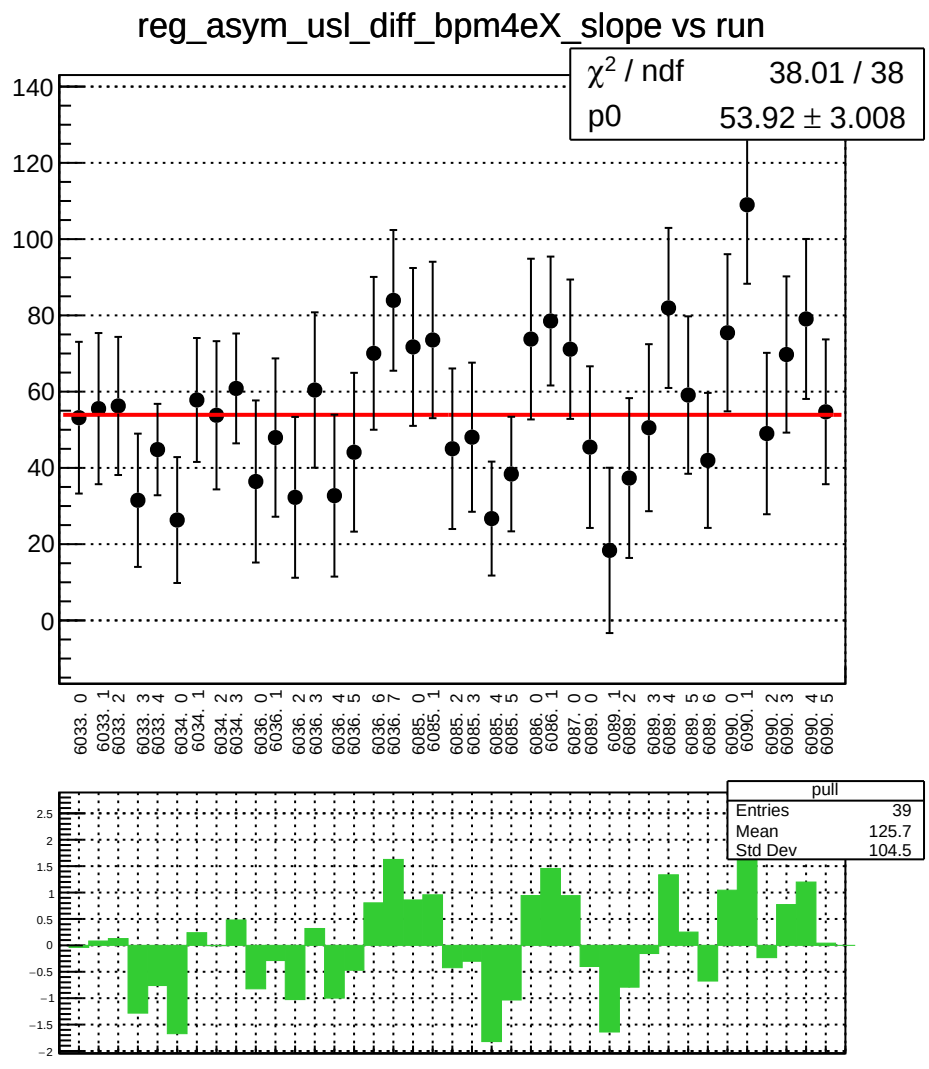

pull1D
Entries 39
Mean −0.0255
Std Dev 0.9606

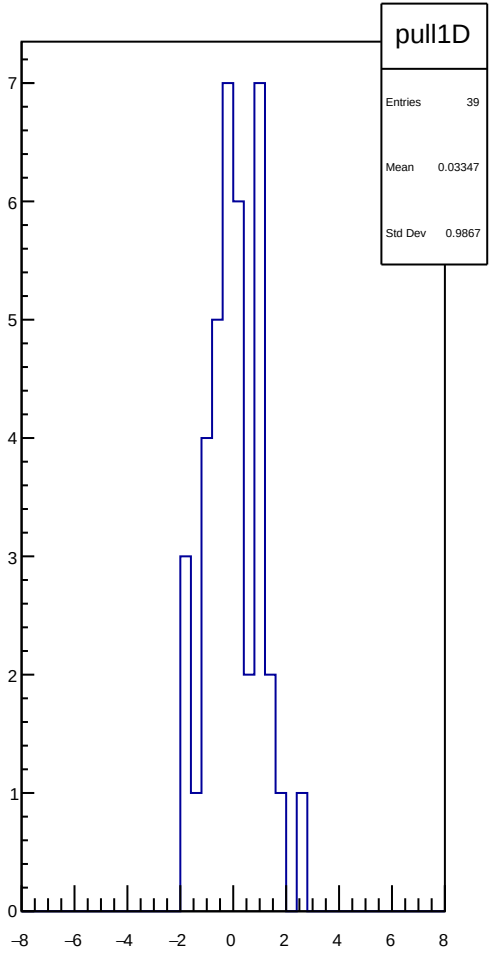

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 38.62 / 38
p0 −94.11 ± 2.694
−40
−60
−80
−100
−120
−140
−160
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086.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

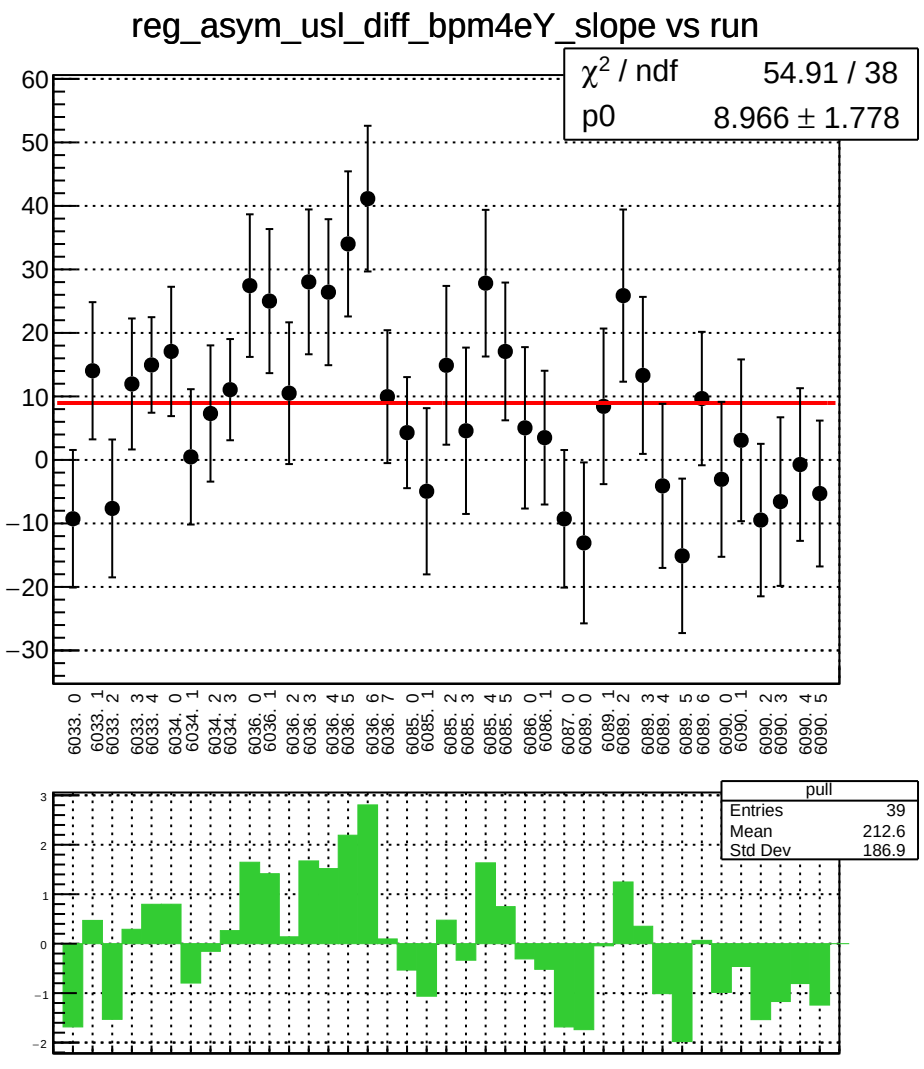

pull1D
Entries 39
Mean −0.02339
Std Dev 0.9949
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

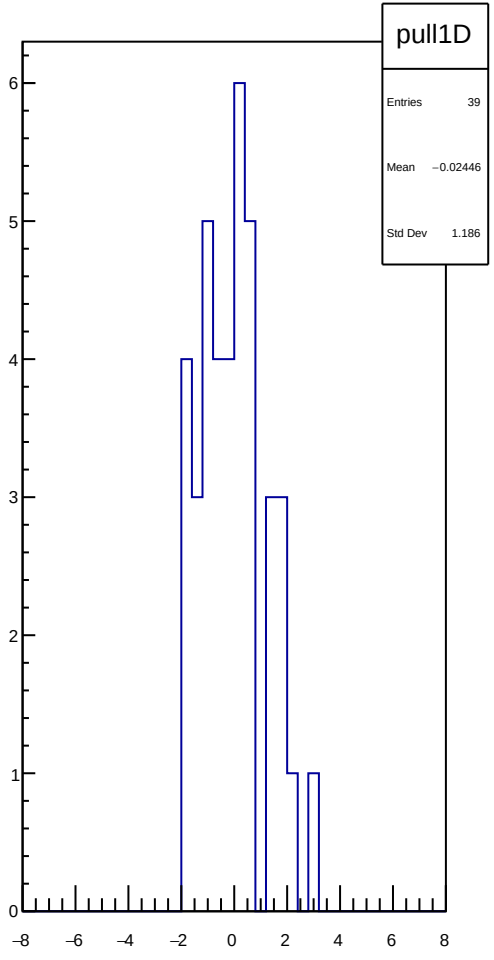

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 47.99 / 38
p0 7.55 ± 1.659
pull
Entries 39
Mean 102.2
Std Dev 77.3

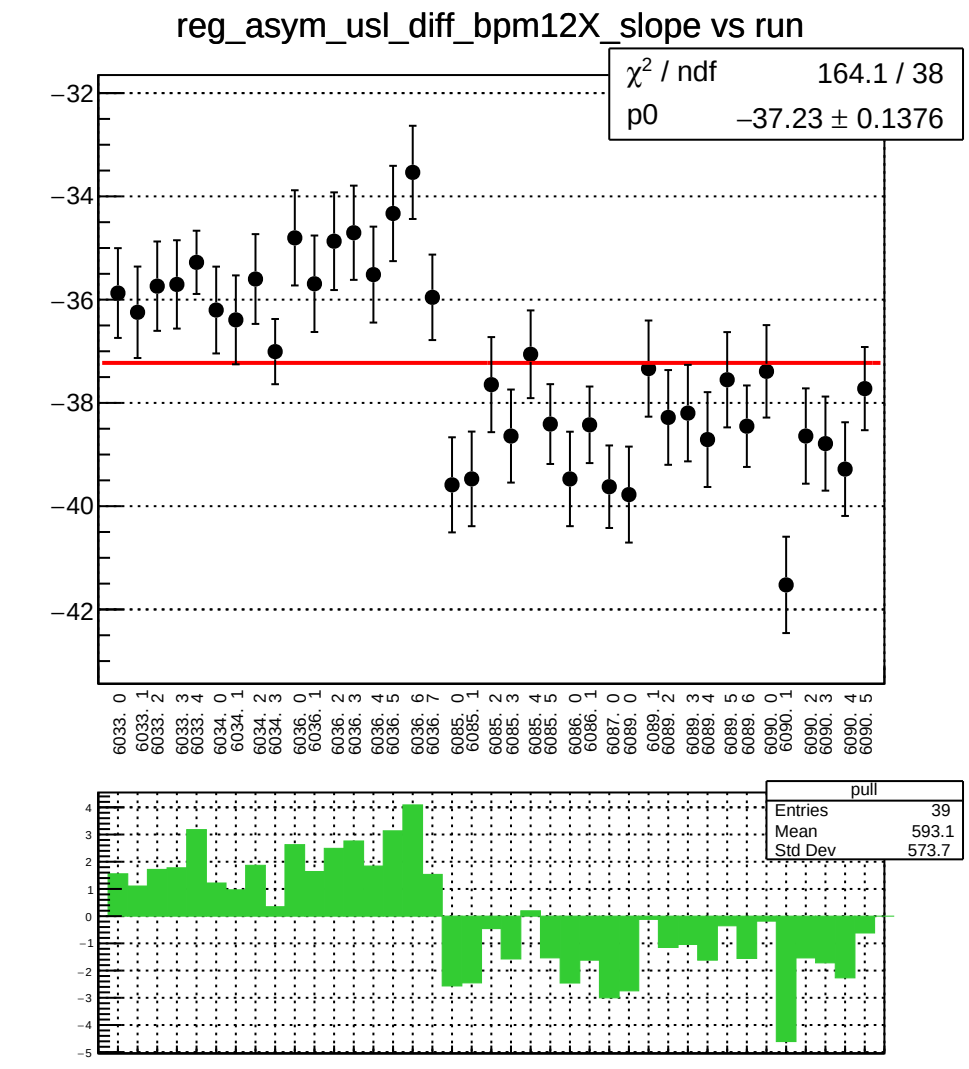

pull1D
Entries 39
Mean 0.06002
Std Dev 1.108

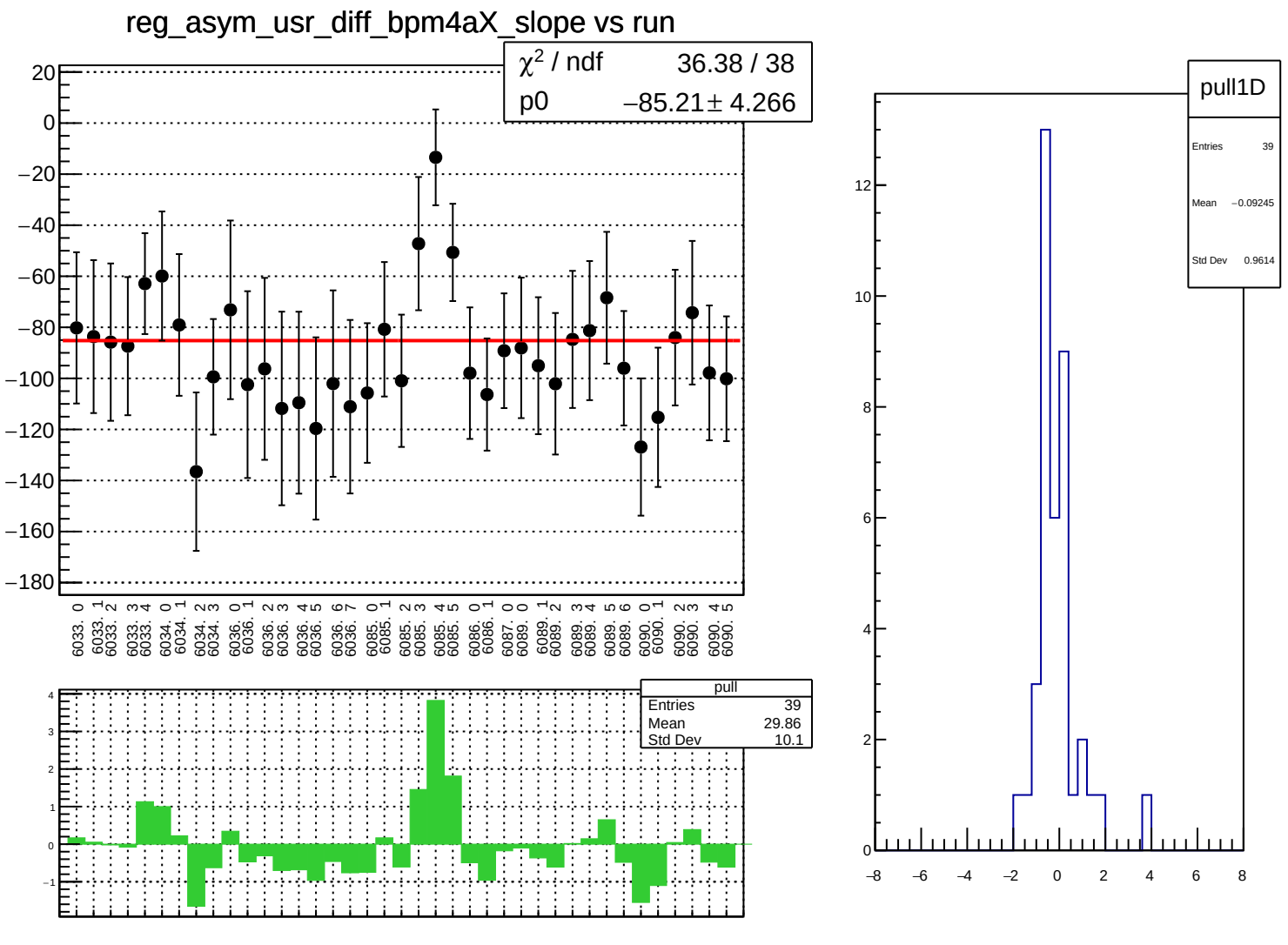

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 38.01 / 38
p0 53.92 ± 3.008
pull
Entries 39
Mean 125.7
Std Dev 104.5

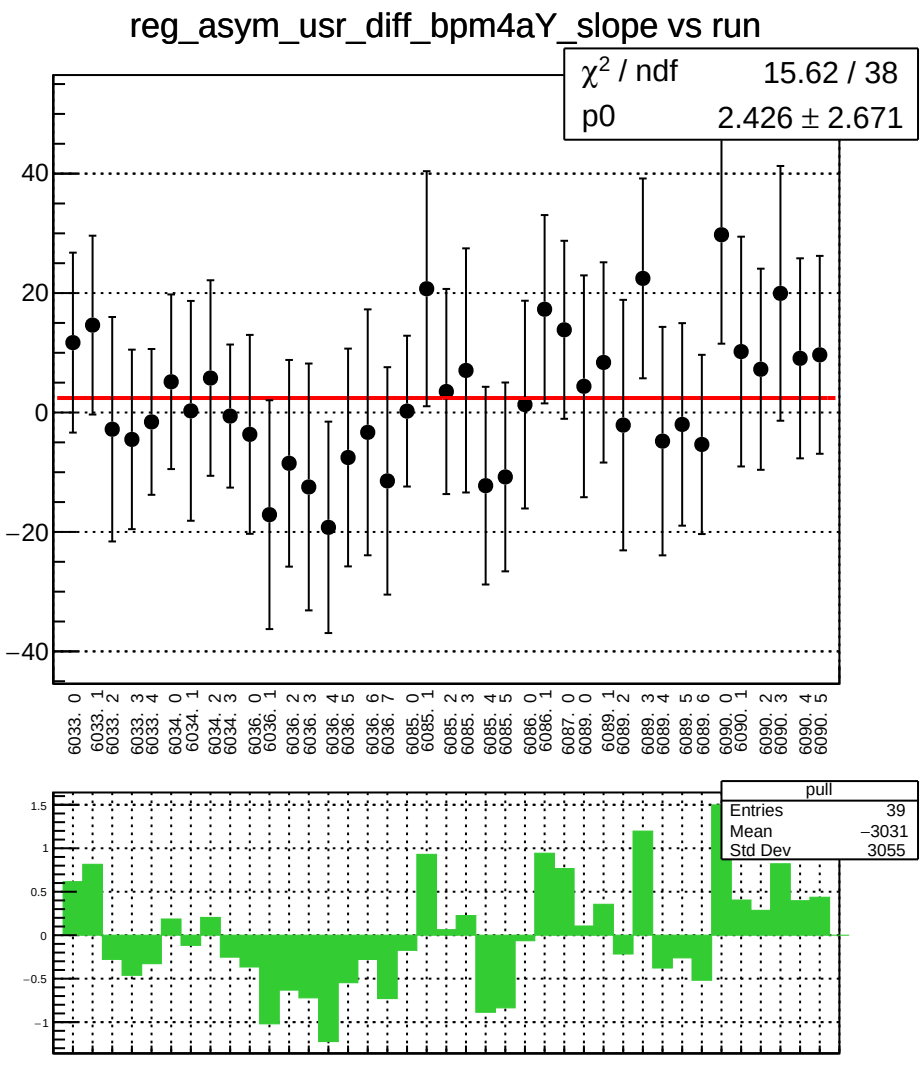

pull1D
Entries 39
Mean 0.03347
Std Dev 0.9867

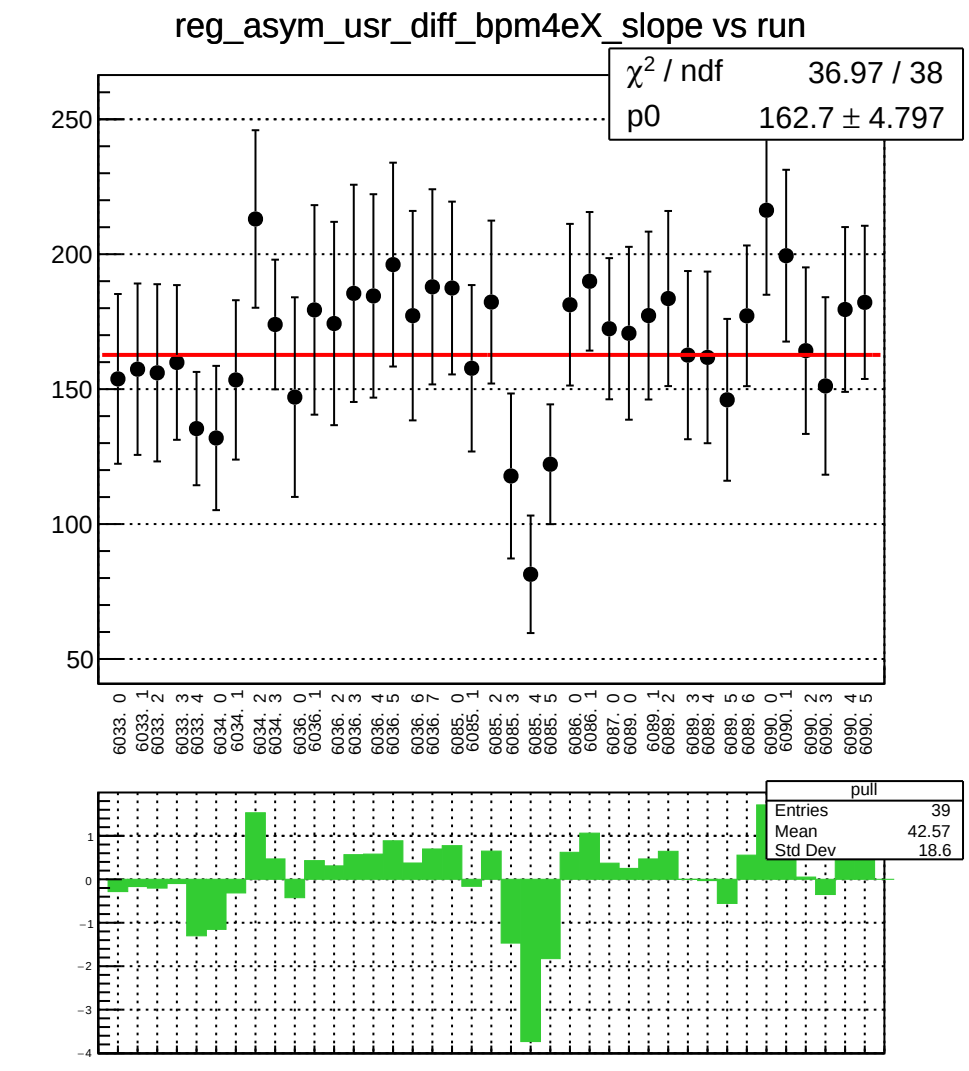

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 54.91 / 38
p0 8.966 ± 1.778
pull
Entries 39
Mean 212.6
Std Dev 186.9

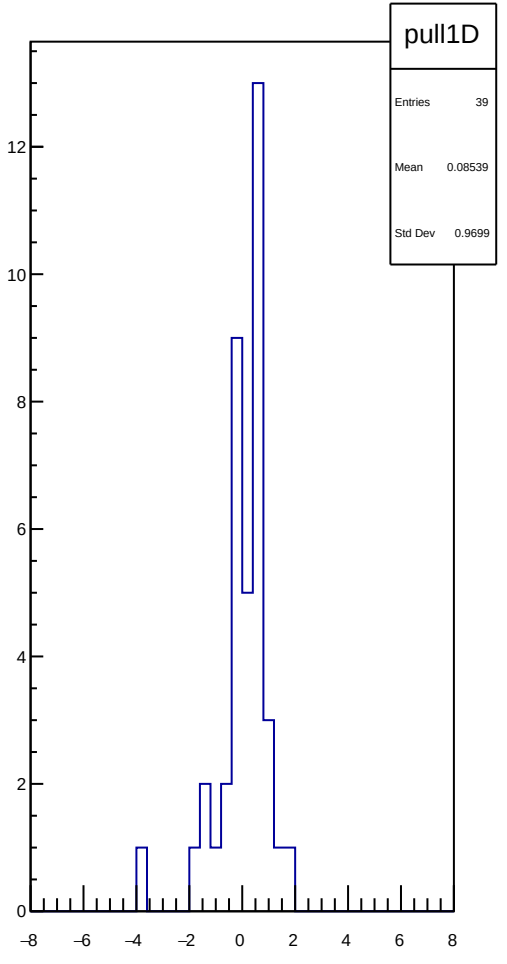

pull1D
Entries 39
Mean −0.02446
Std Dev 1.186

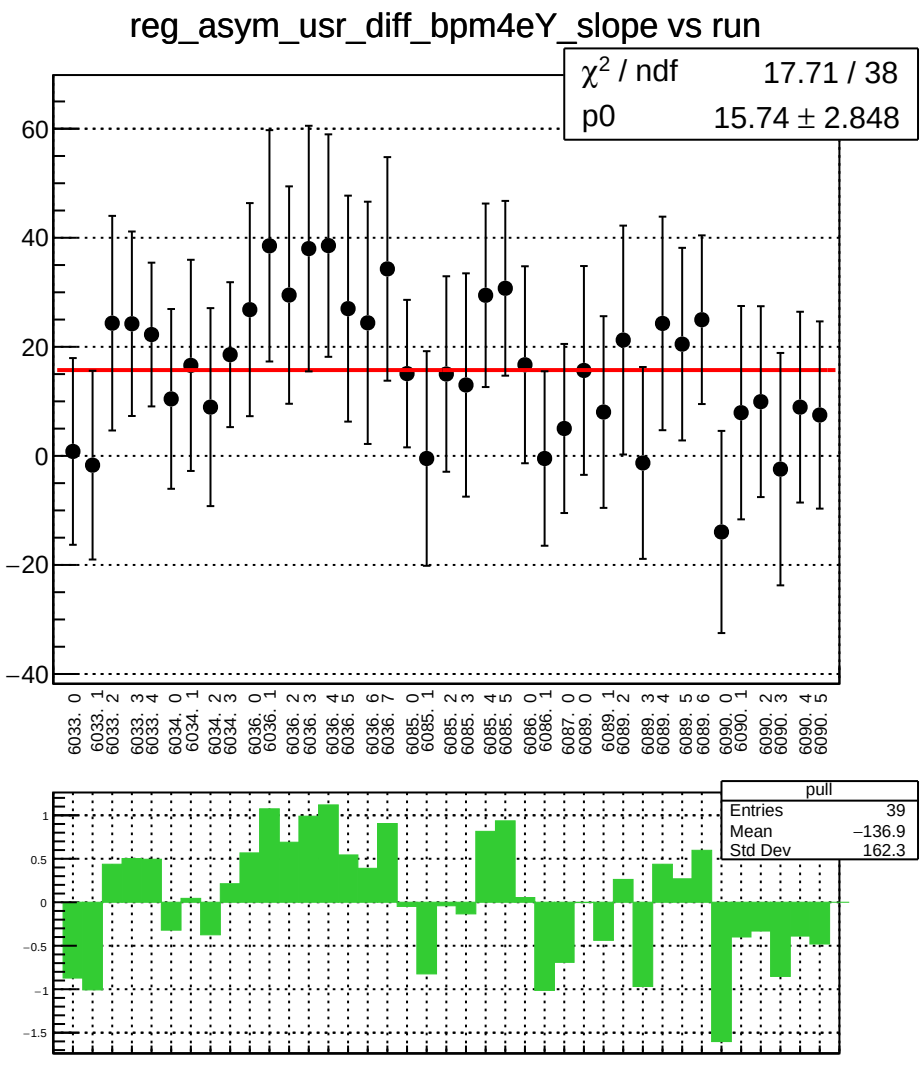

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 164.1 / 38
p0 −37.23 ± 0.1376
−32
−34
−36
−38
−40
−42
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 593.1
Std Dev 573.7
pull1D
Entries 39
Mean −0.02834
Std Dev 2.051

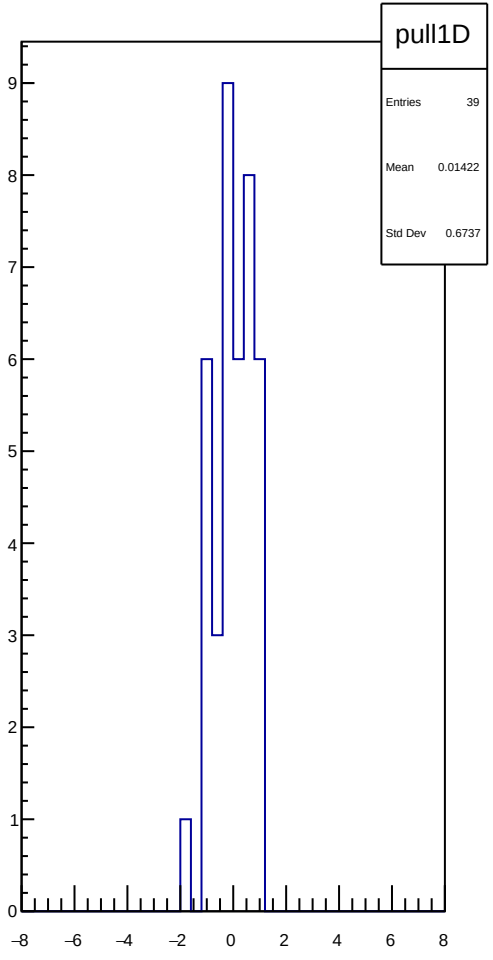

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 36.38 / 38
p0 −85.21 ± 4.266
pull
Entries 39
Mean 29.86
Std Dev 10.1
pull1D
Entries 39
Mean −0.09245
Std Dev 0.9614

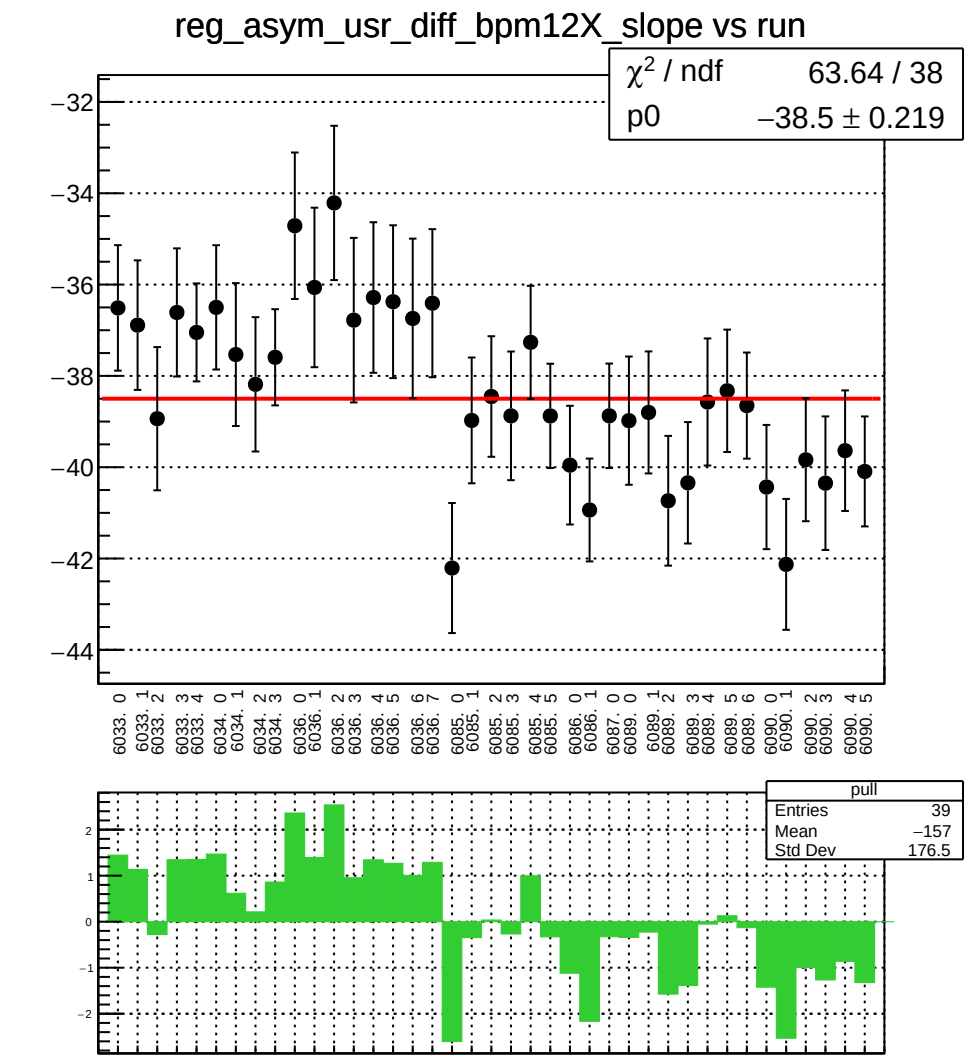

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 15.62 / 38
p0 2.426 ± 2.671
40
20
0
−20
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −3031
Std Dev 3055
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.0007669
Std Dev 0.6328
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

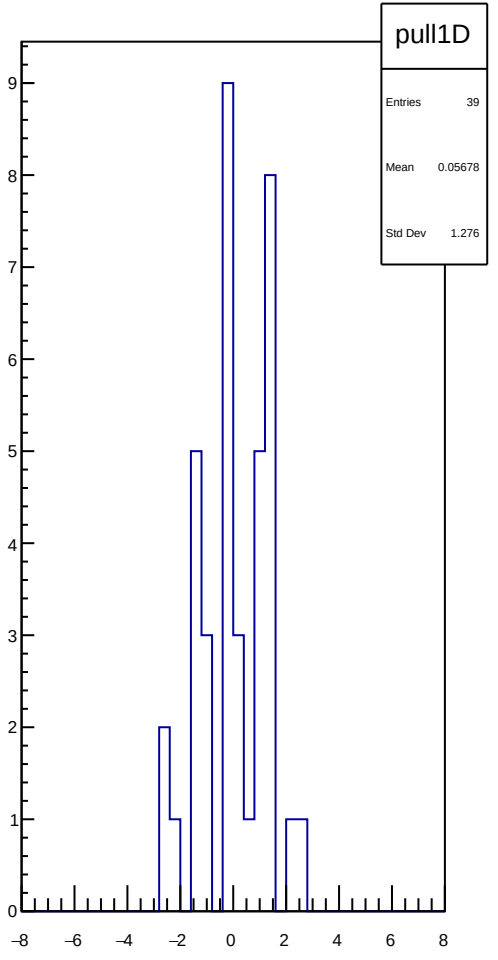

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 36.97 / 38
p0 162.7 ± 4.797
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 42.57
Std Dev 18.6
1
0
−1
−2
−3
−4

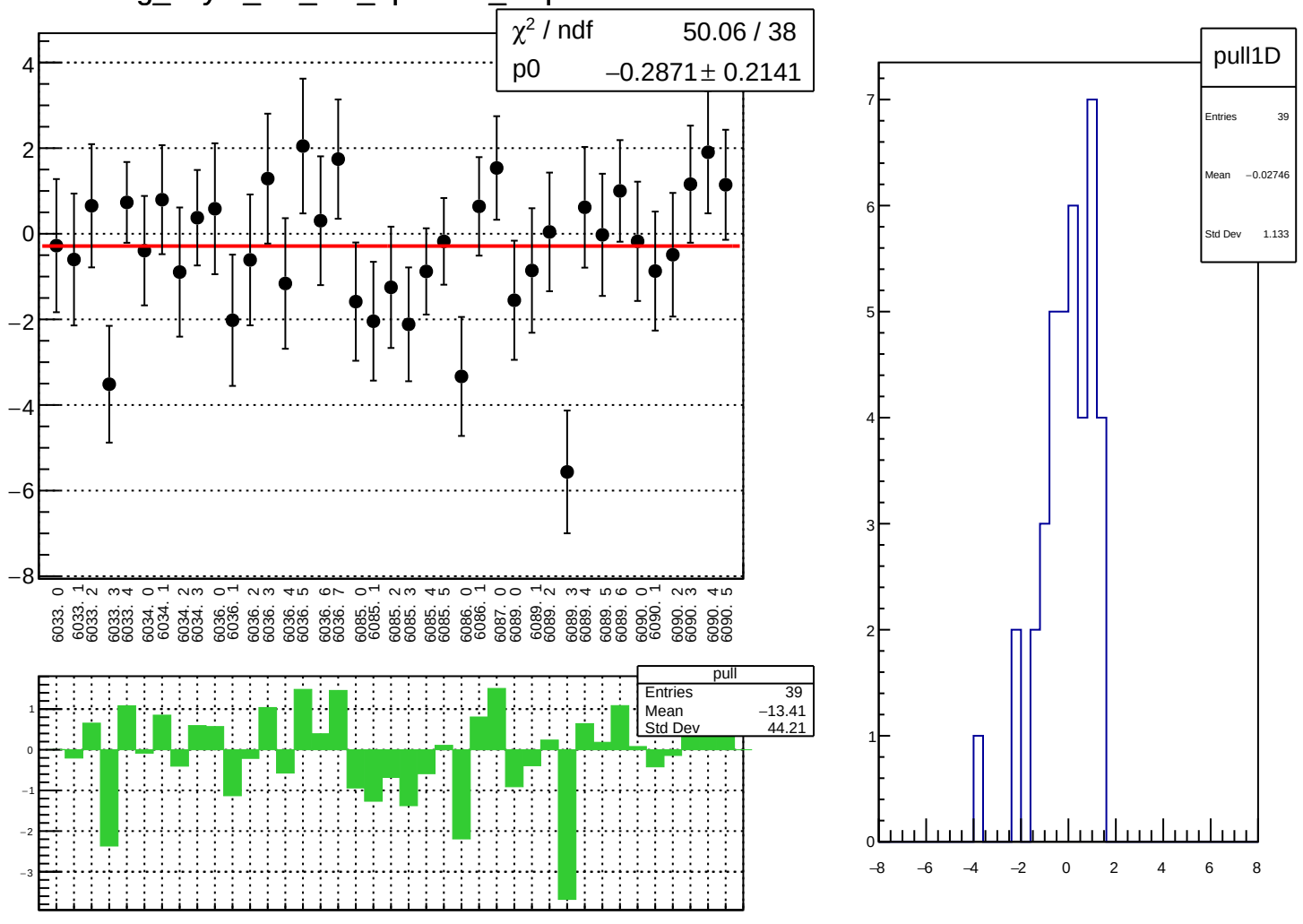

pull1D
Entries 39
Mean 0.08539
Std Dev 0.9699
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

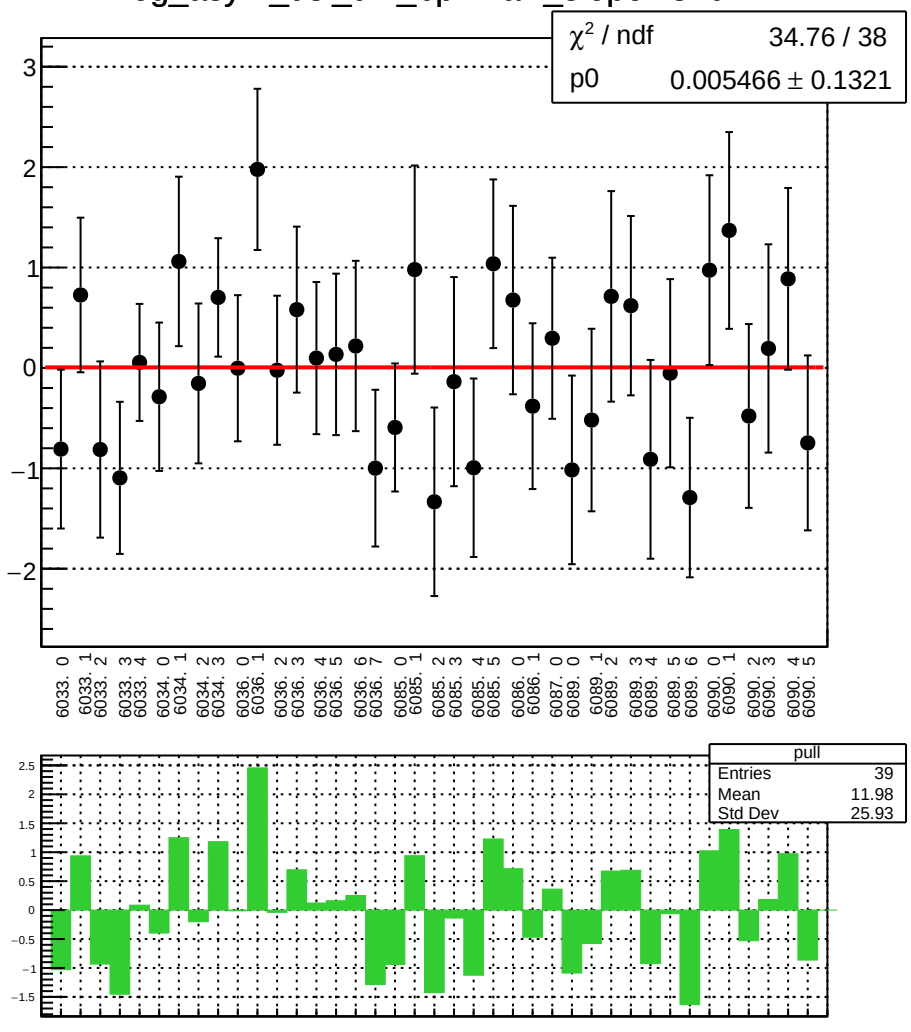

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 17.71 / 38
p0 15.74 ± 2.848
pull
Entries 39
Mean −136.9
Std Dev 162.3

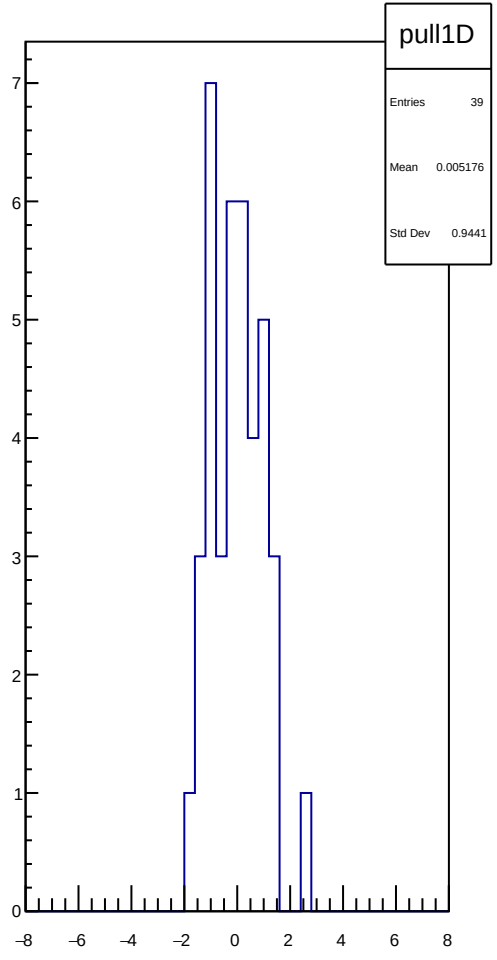

pull1D
Entries 39
Mean 0.01422
Std Dev 0.6737

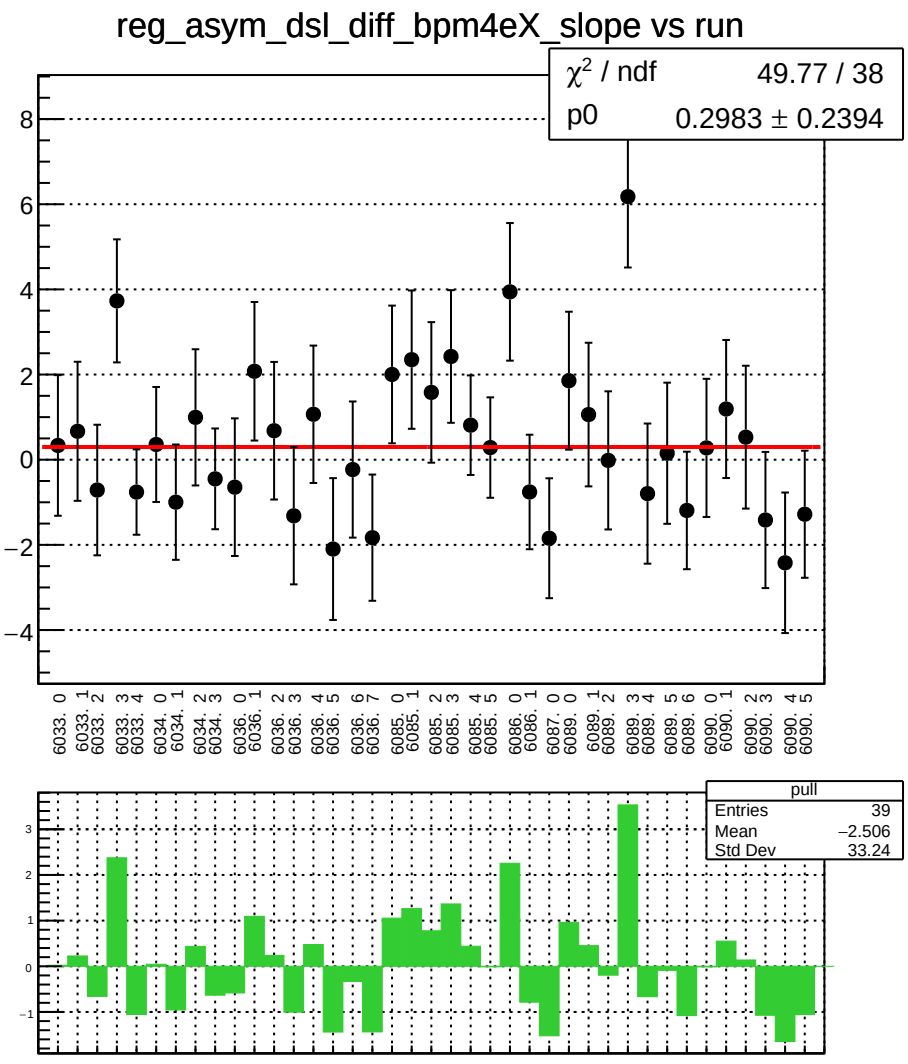

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 63.64 / 38
p0 −38.5 ± 0.219
−32
−34
−36
−38
−40
−42
−44
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −157
Std Dev 176.5
2
1
0
−1
−2

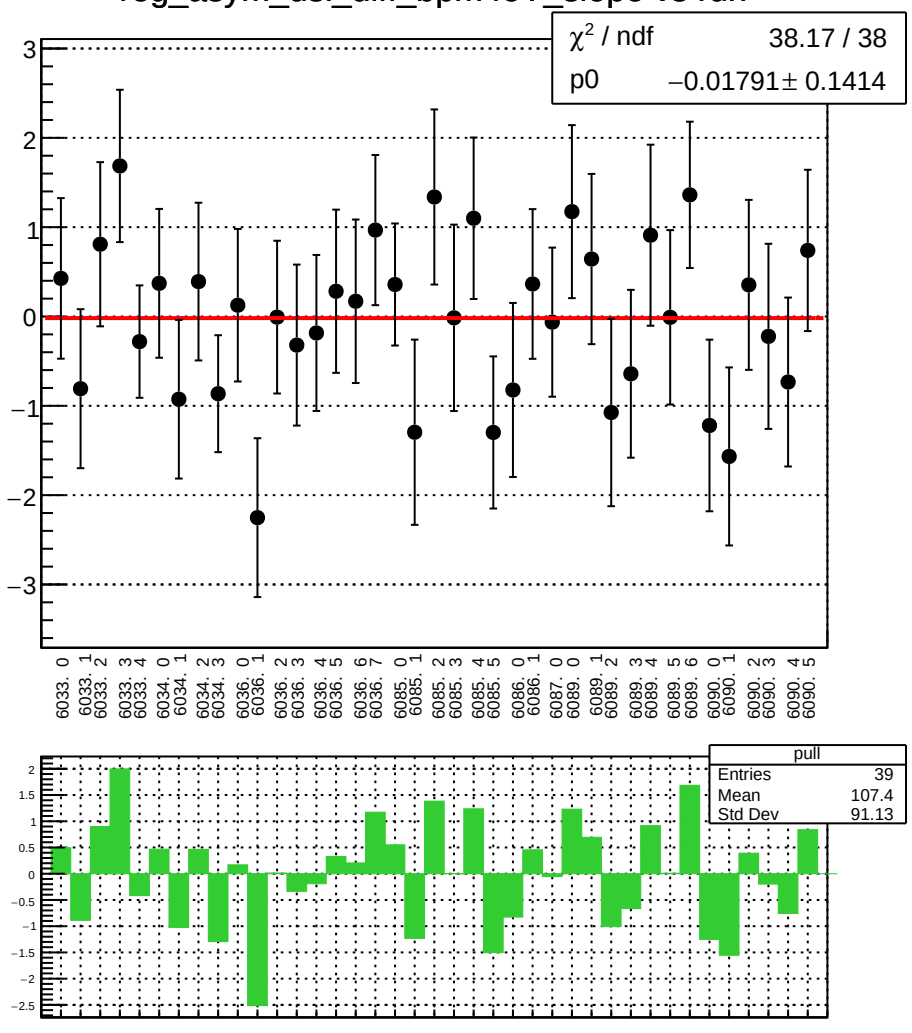

pull1D
Entries 39
Mean 0.05678
Std Dev 1.276
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

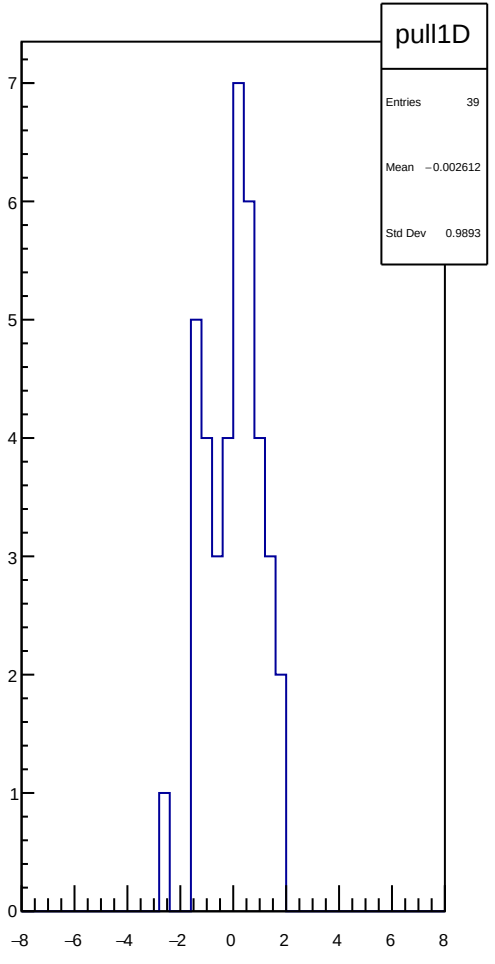

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 50.06 / 38
p0 −0.2871 ± 0.2141
pull
Entries 39
Mean −13.41
Std Dev 44.21
pull1D
Entries 39
Mean −0.02746
Std Dev 1.133

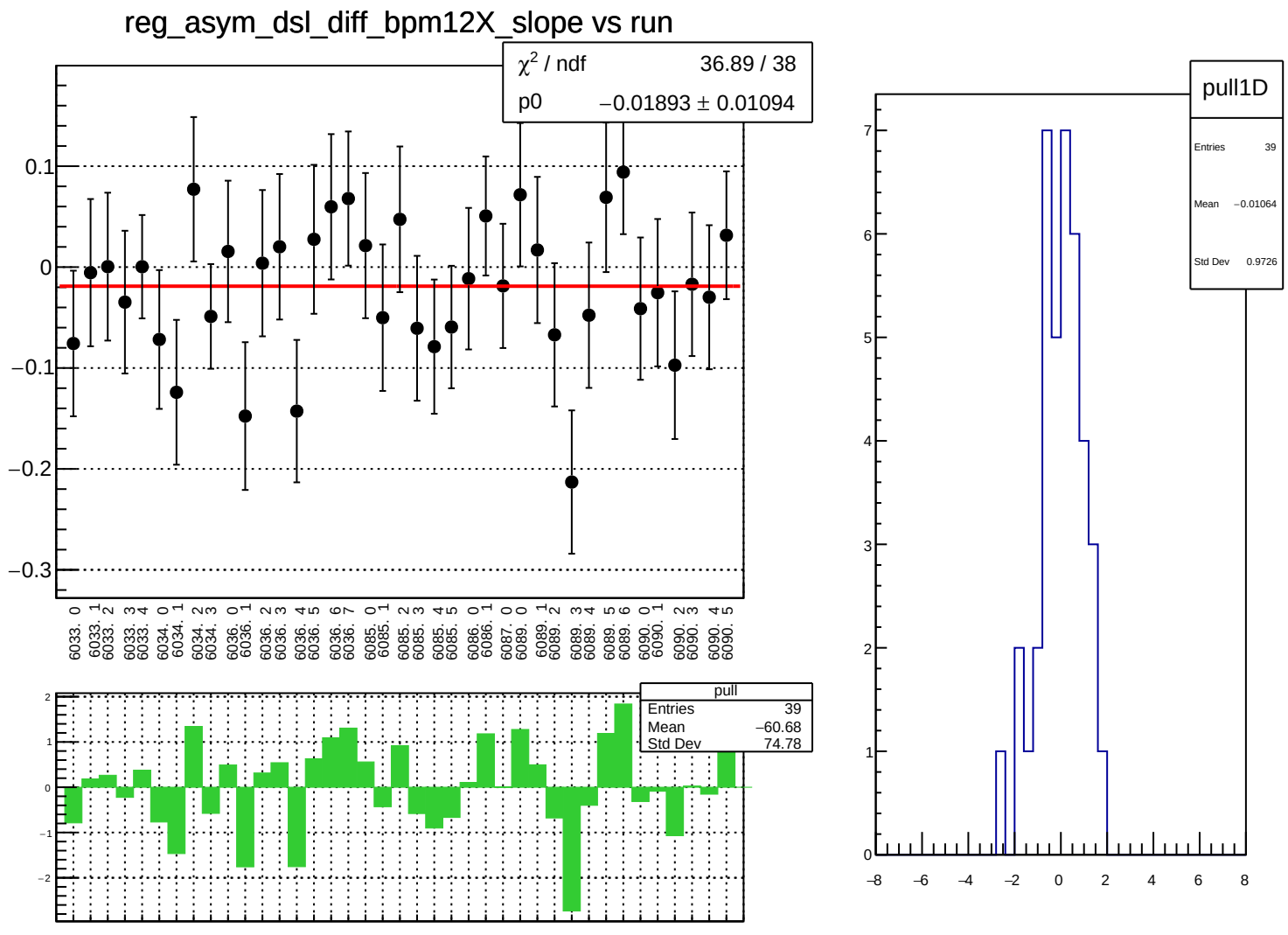

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 34.76 / 38
p0 0.005466 ± 0.1321
pull
Entries 39
Mean 11.98
Std Dev 25.93

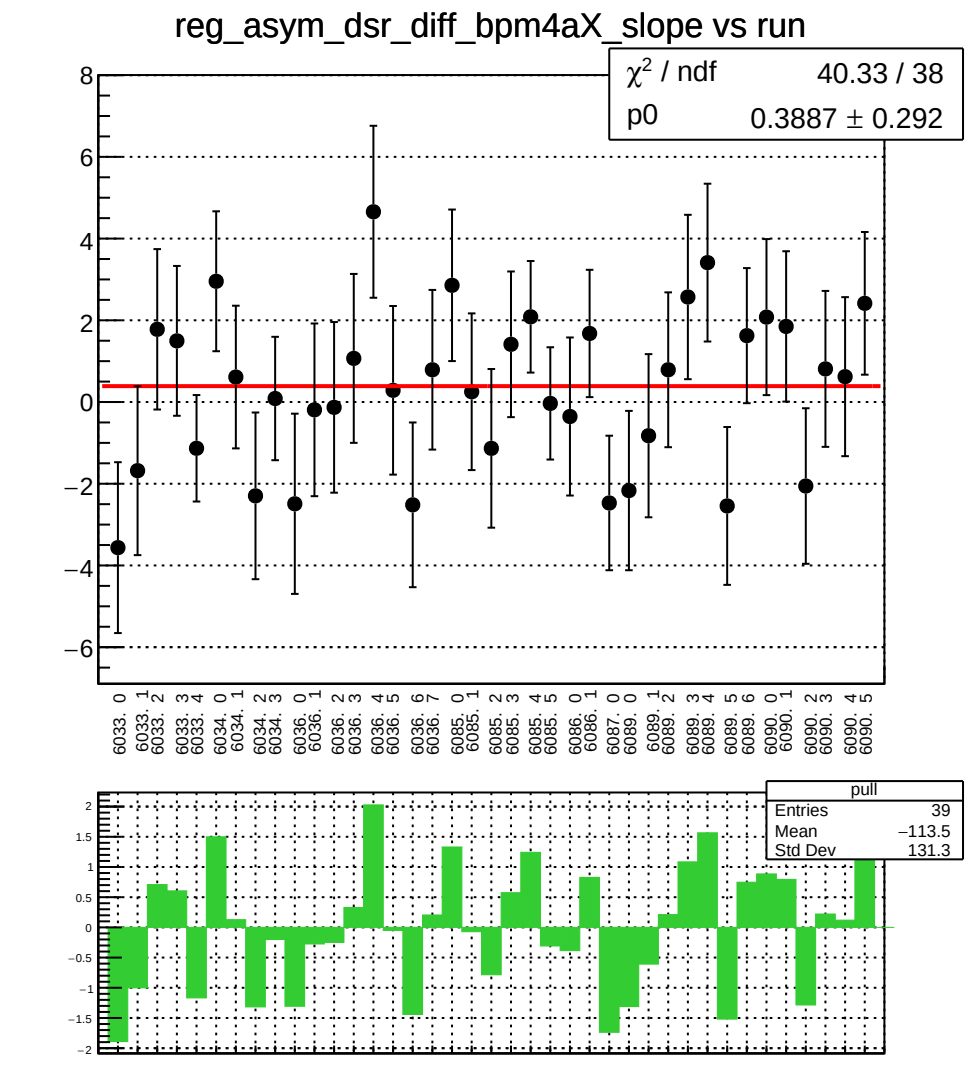

pull1D
Entries 39
Mean 0.005176
Std Dev 0.9441

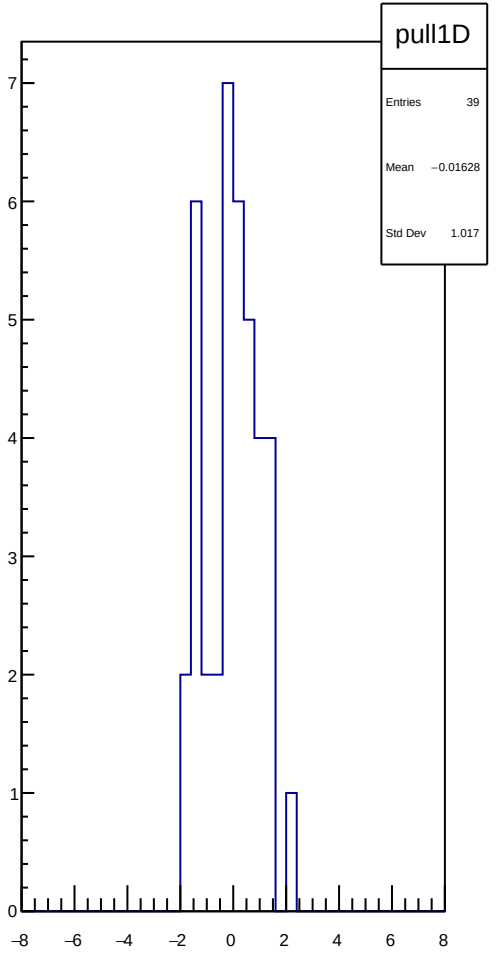

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 49.77 / 38
p0 0.2983 ± 0.2394
8
6
4
2
0
−2
−4
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −2.506
Std Dev 33.24
3
2
1
0
−1
pull1D
Entries 39
Mean 0.0375
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

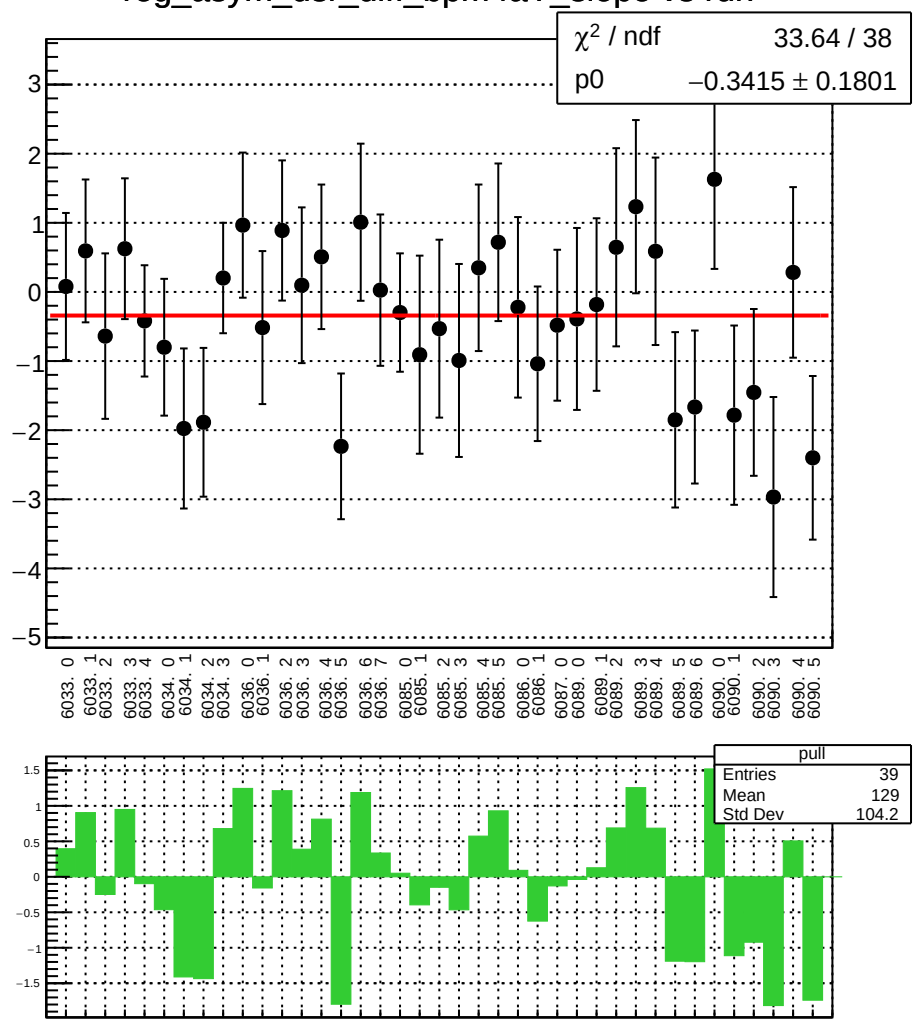

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 38.17 / 38
p0 −0.01791± 0.1414
pull
Entries 39
Mean 107.4
Std Dev 91.13

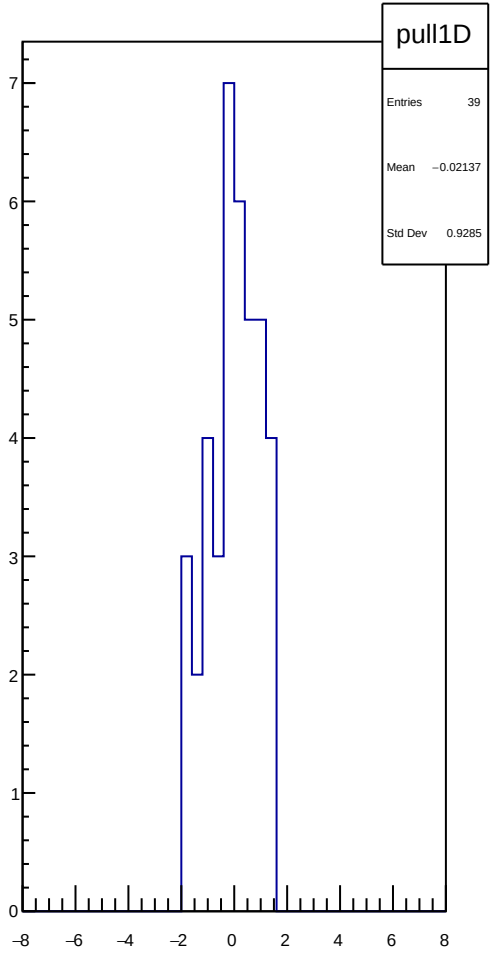

pull1D
Entries 39
Mean −0.002612
Std Dev 0.9893

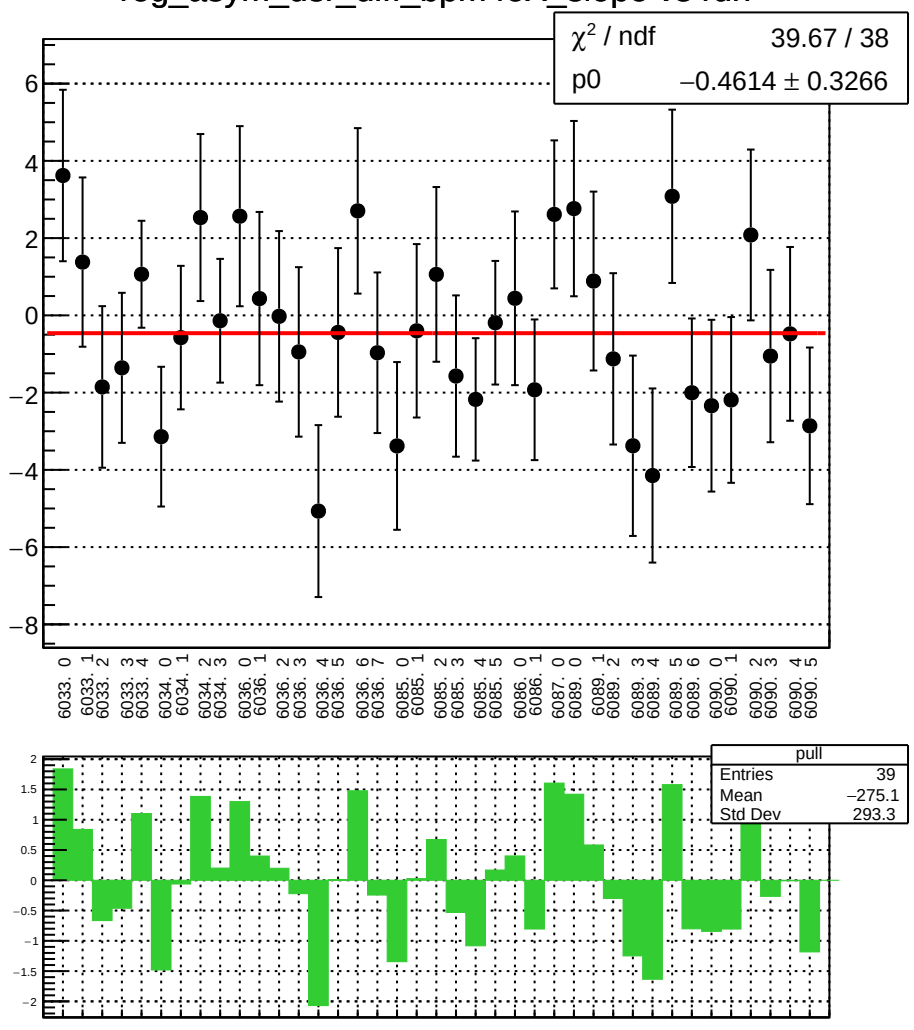

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 36.89 / 38
p0 −0.01893 ± 0.01094
0.1
0
−0.1
−0.2
−0.3
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −60.68
Std Dev 74.78
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.01064
Std Dev 0.9726
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

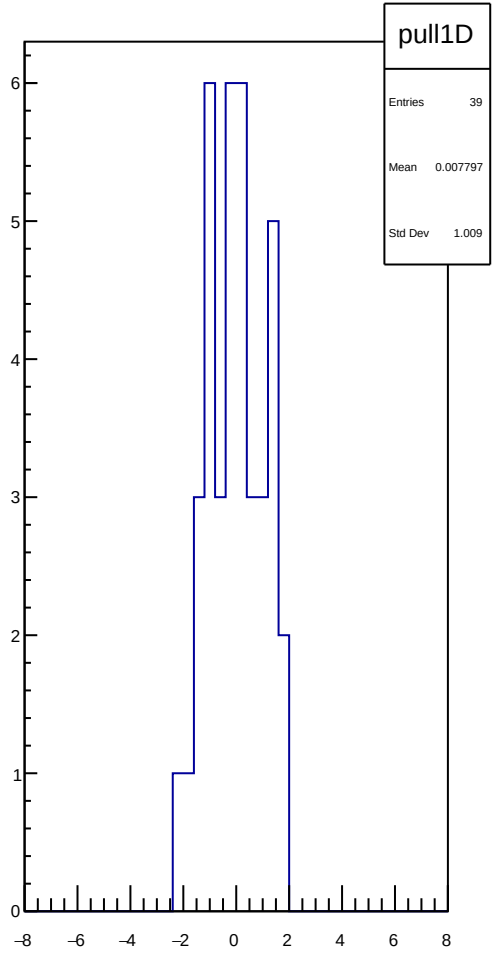

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 40.33 / 38
p0 0.3887 ± 0.292
pull
Entries 39
Mean −113.5
Std Dev 131.3

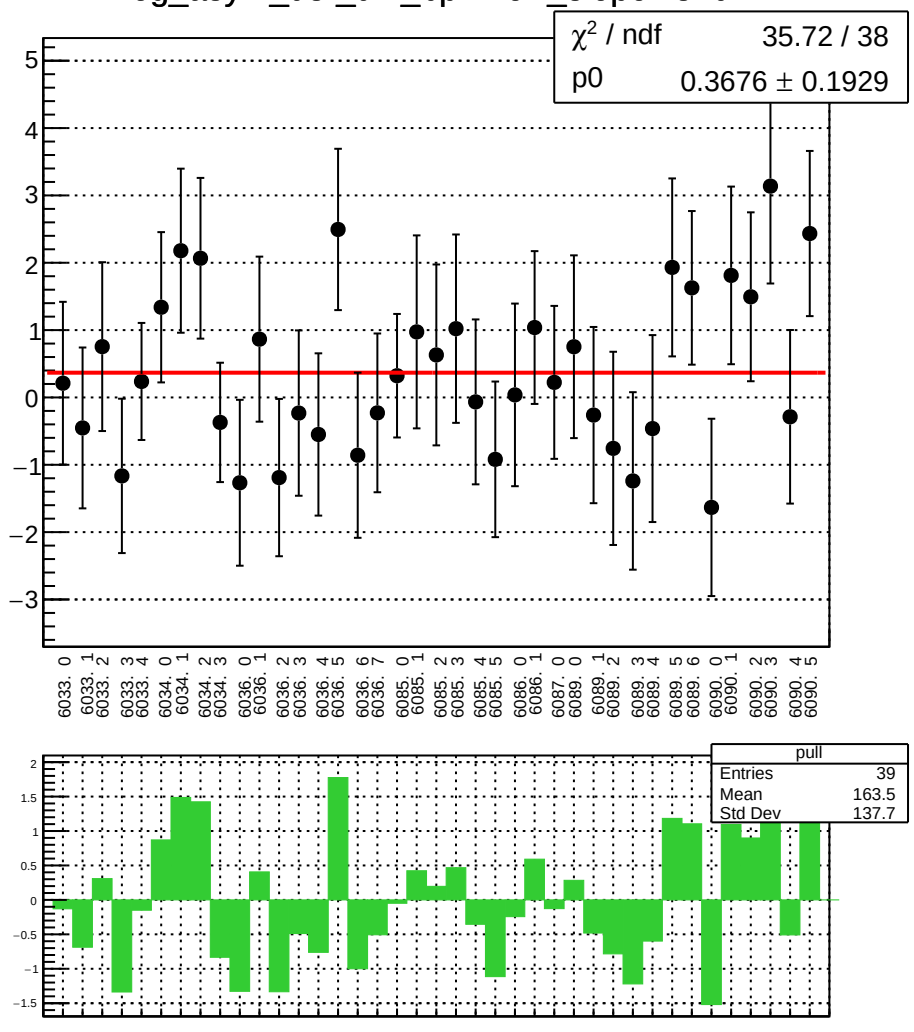

pull1D
Entries 39
Mean −0.01628
Std Dev 1.017

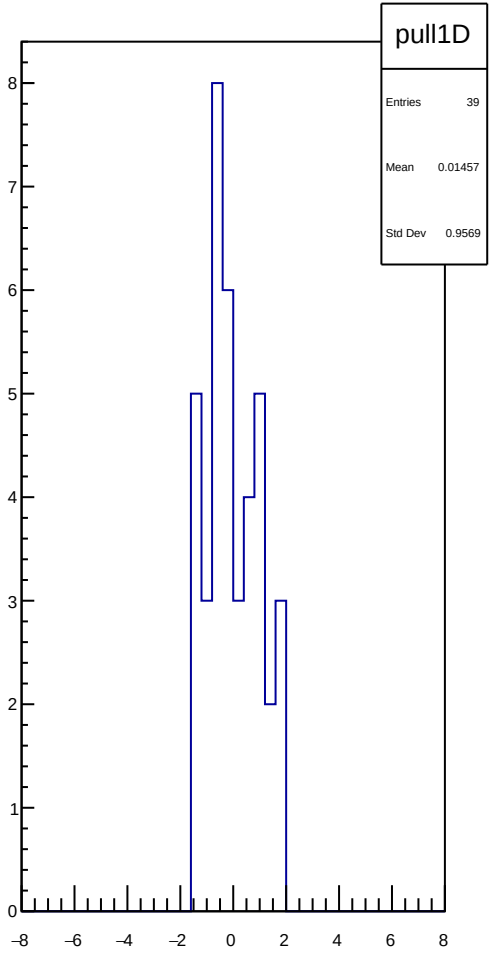

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 33.64 / 38
p0 −0.3415 ± 0.1801
pull
Entries 39
Mean 129
Std Dev 104.2

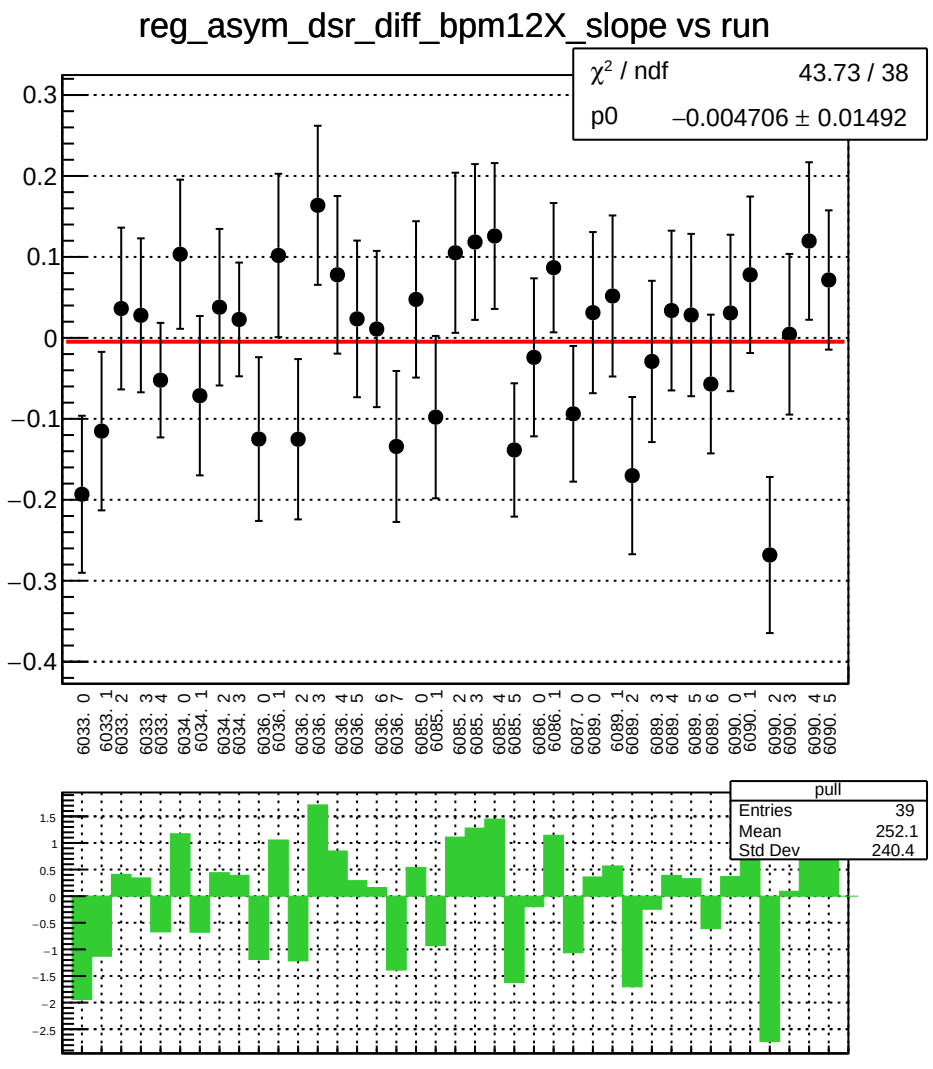

pull1D
Entries 39
Mean −0.02137
Std Dev 0.9285

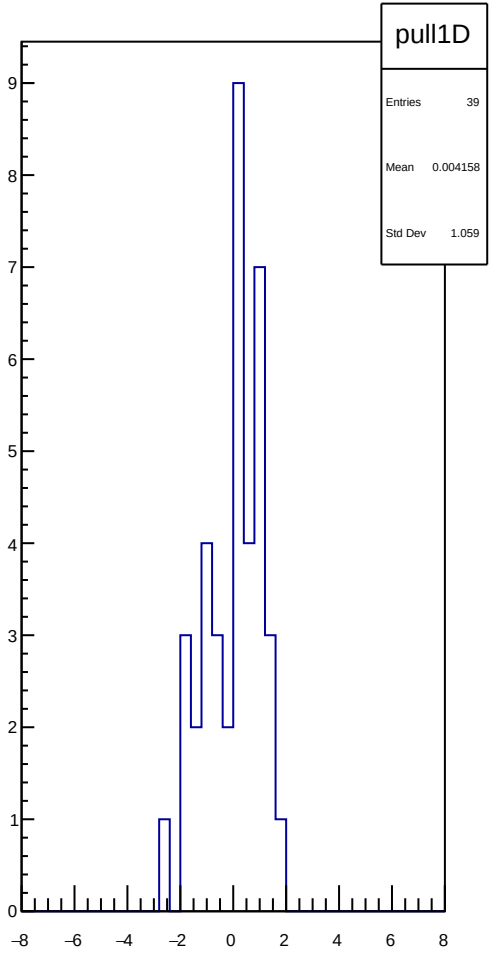

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 39.67 / 38
p0 −0.4614 ± 0.3266
pull
Entries 39
Mean −275.1
Std Dev 293.3

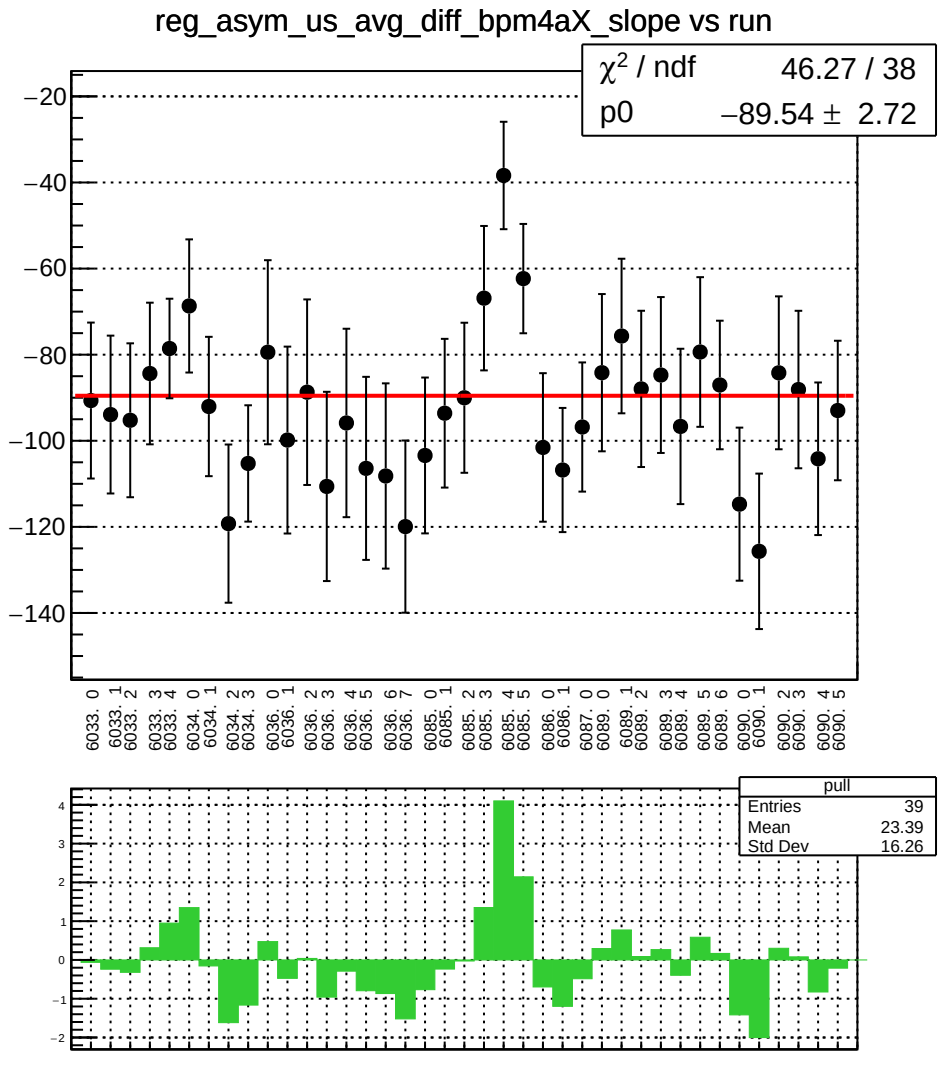

pull1D
Entries 39
Mean 0.007797
Std Dev 1.009

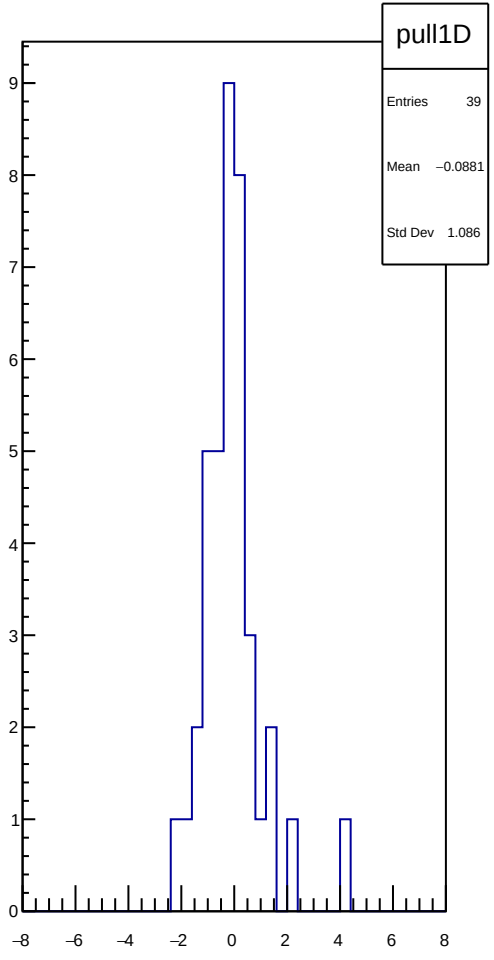

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 35.72 / 38
p0 0.3676 ± 0.1929
pull
Entries 39
Mean 163.5
Std Dev 137.7

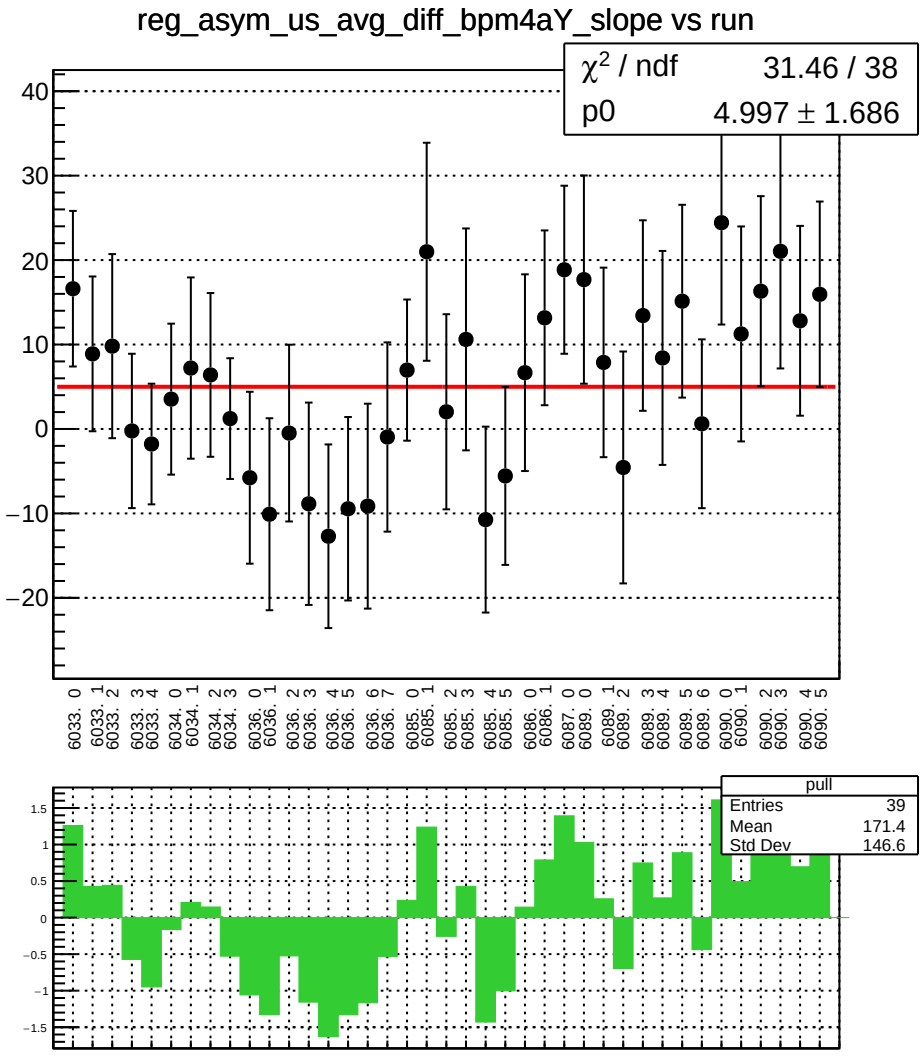

pull1D
Entries 39
Mean 0.01457
Std Dev 0.9569

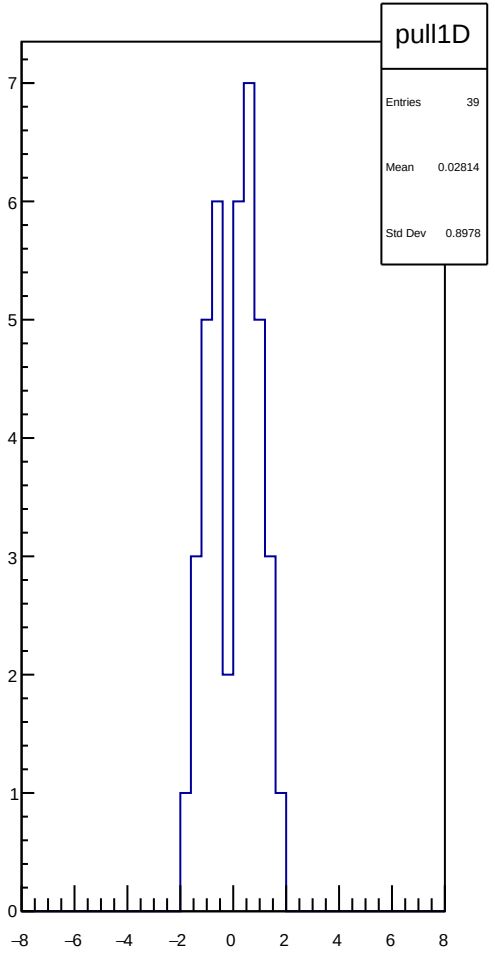

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 43.73 / 38
p0 −0.004706 ± 0.01492
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 252.1
Std Dev 240.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

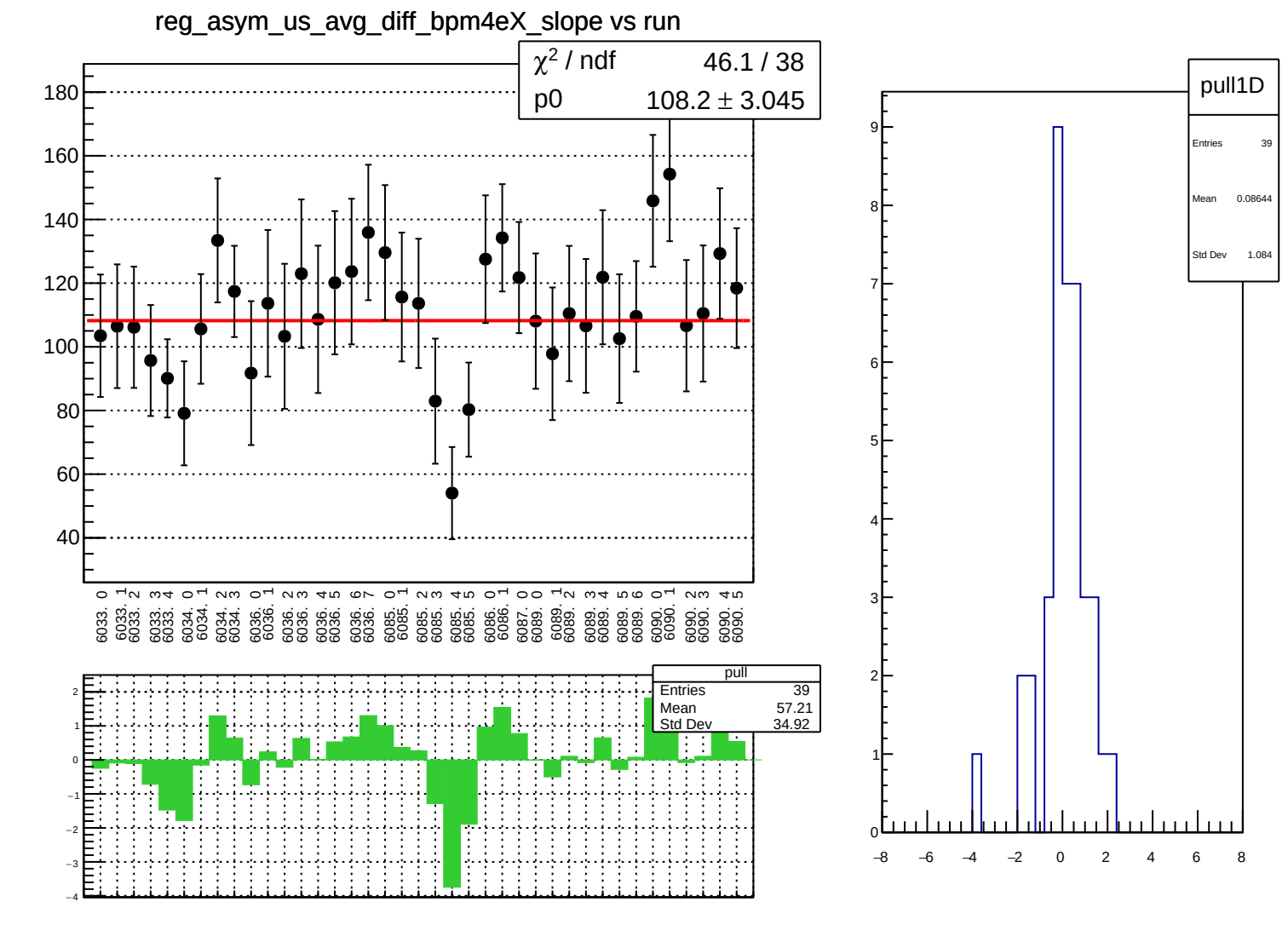

pull1D
Entries 39
Mean 0.004158
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

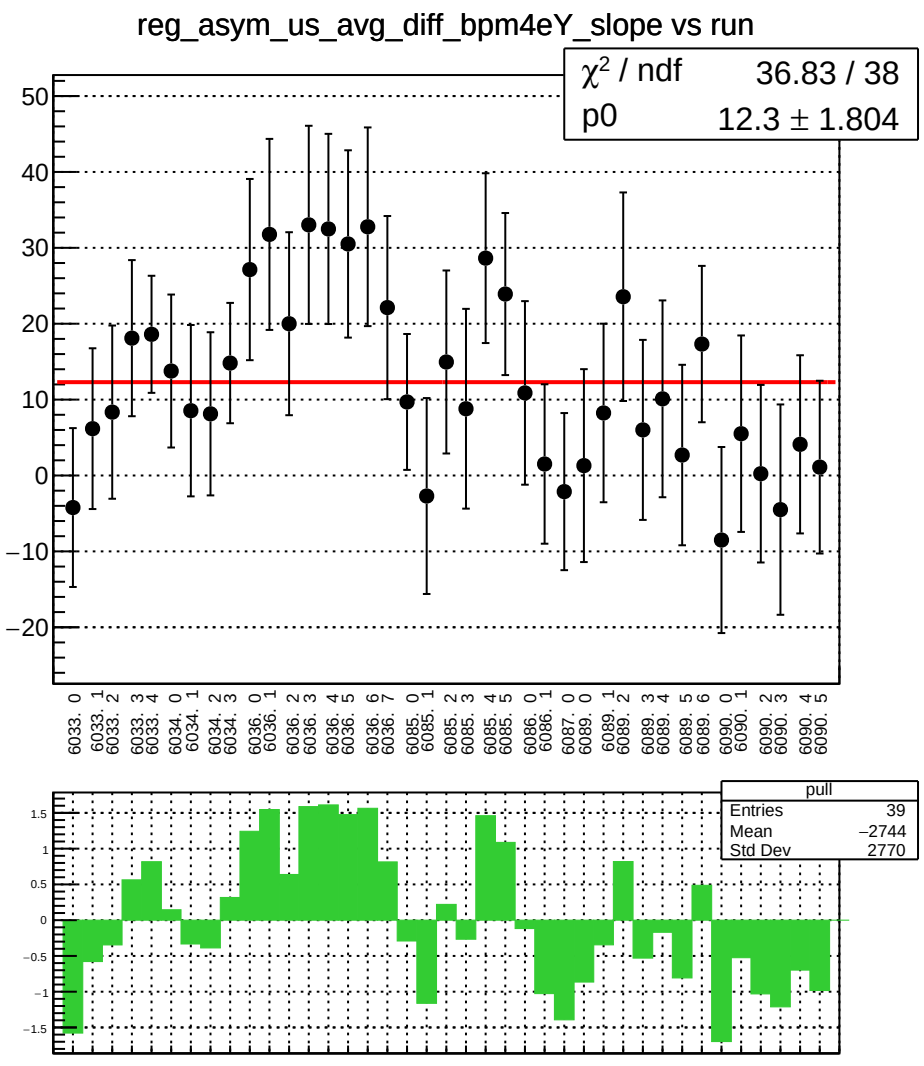

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.27 / 38
p0 −89.54 ± 2.72
pull
Entries 39
Mean 23.39
Std Dev 16.26

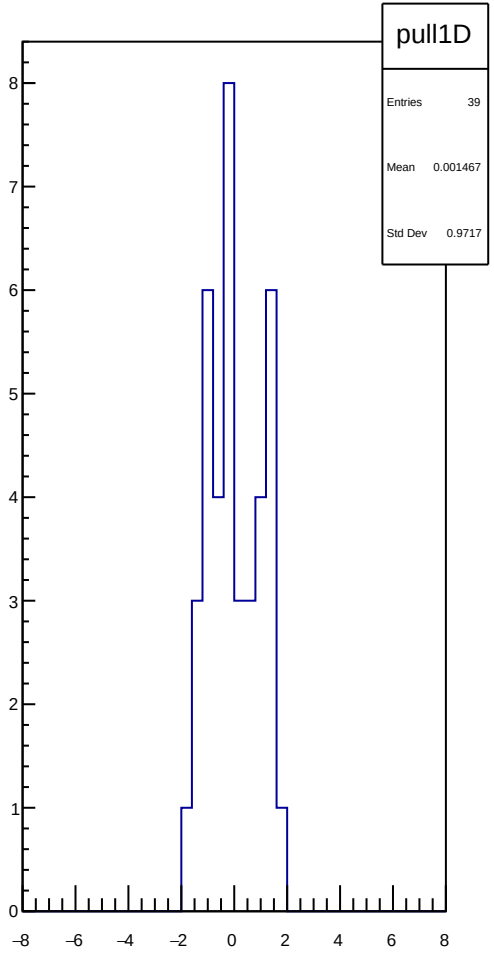

pull1D
Entries 39
Mean −0.0881
Std Dev 1.086

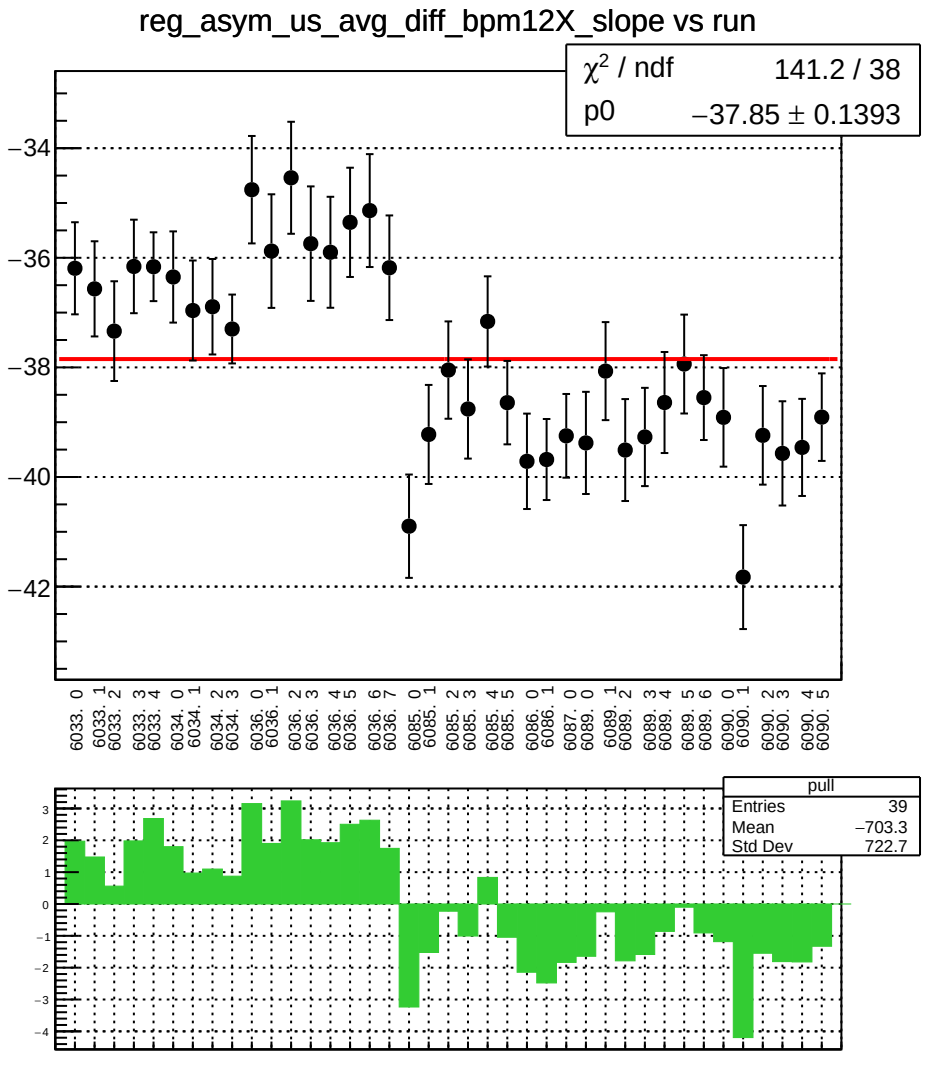

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.46 / 38
p0 4.997 ± 1.686
pull
Entries 39
Mean 171.4
Std Dev 146.6

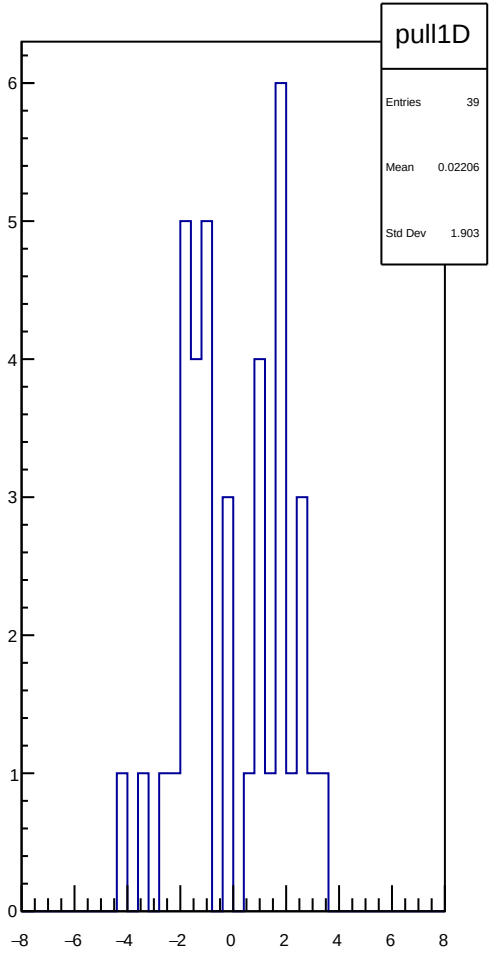

pull1D
Entries 39
Mean 0.02814
Std Dev 0.8978

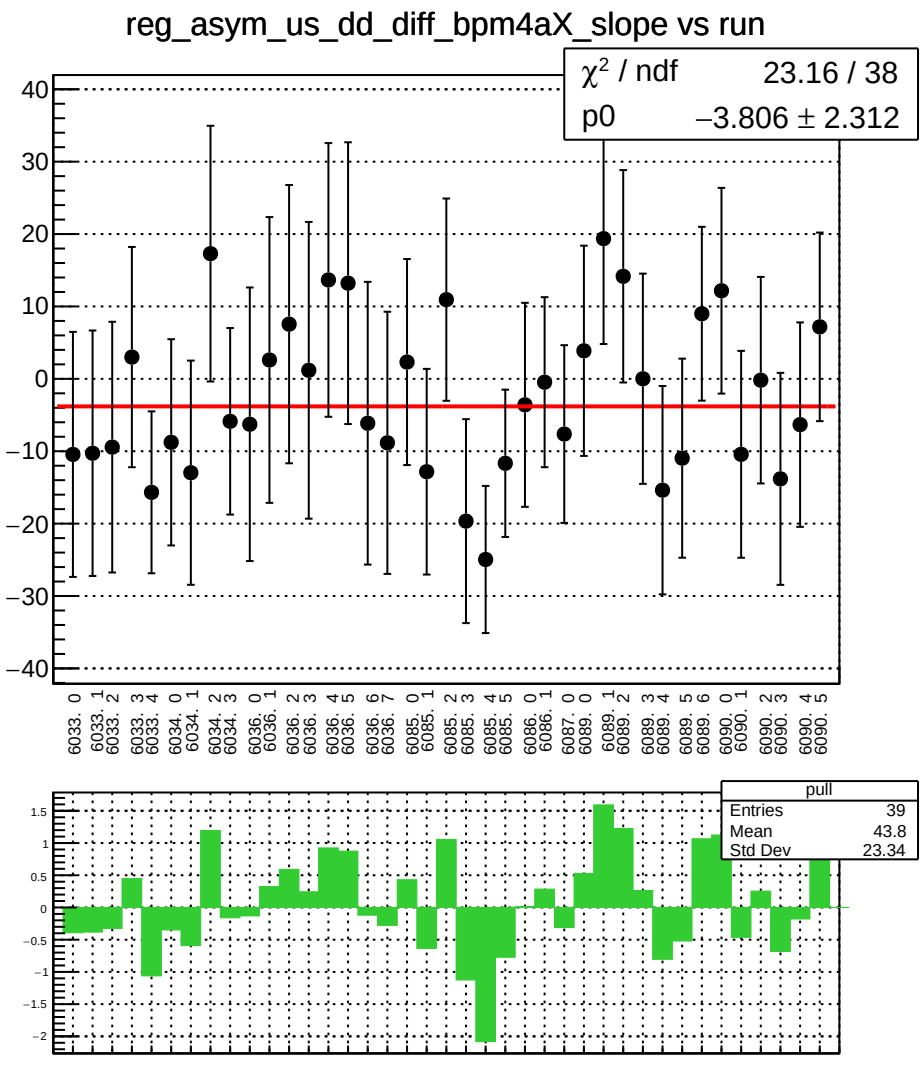

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.1 / 38
p0 108.2 ± 3.045
pull
Entries 39
Mean 57.21
Std Dev 34.92
pull1D
Entries 39
Mean 0.08644
Std Dev 1.084

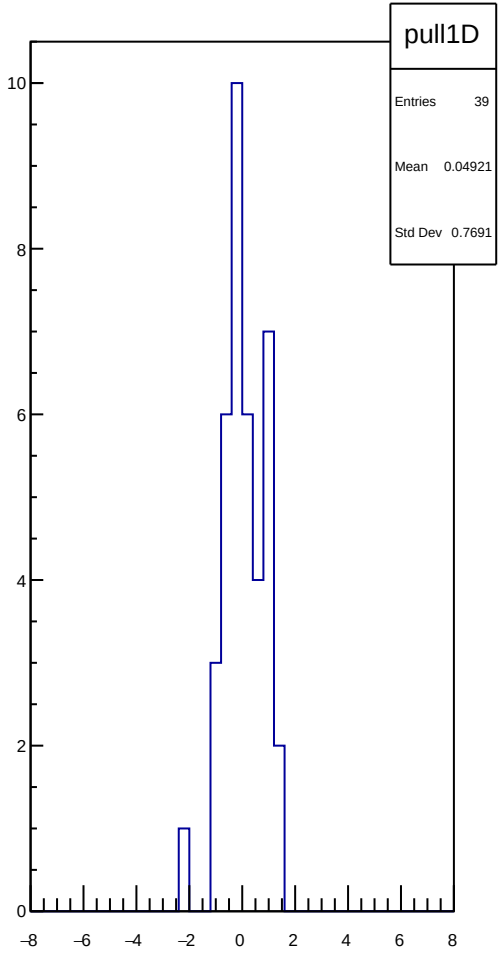

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.83 / 38
p0 12.3 ± 1.804
pull
Entries 39
Mean −2744
Std Dev 2770

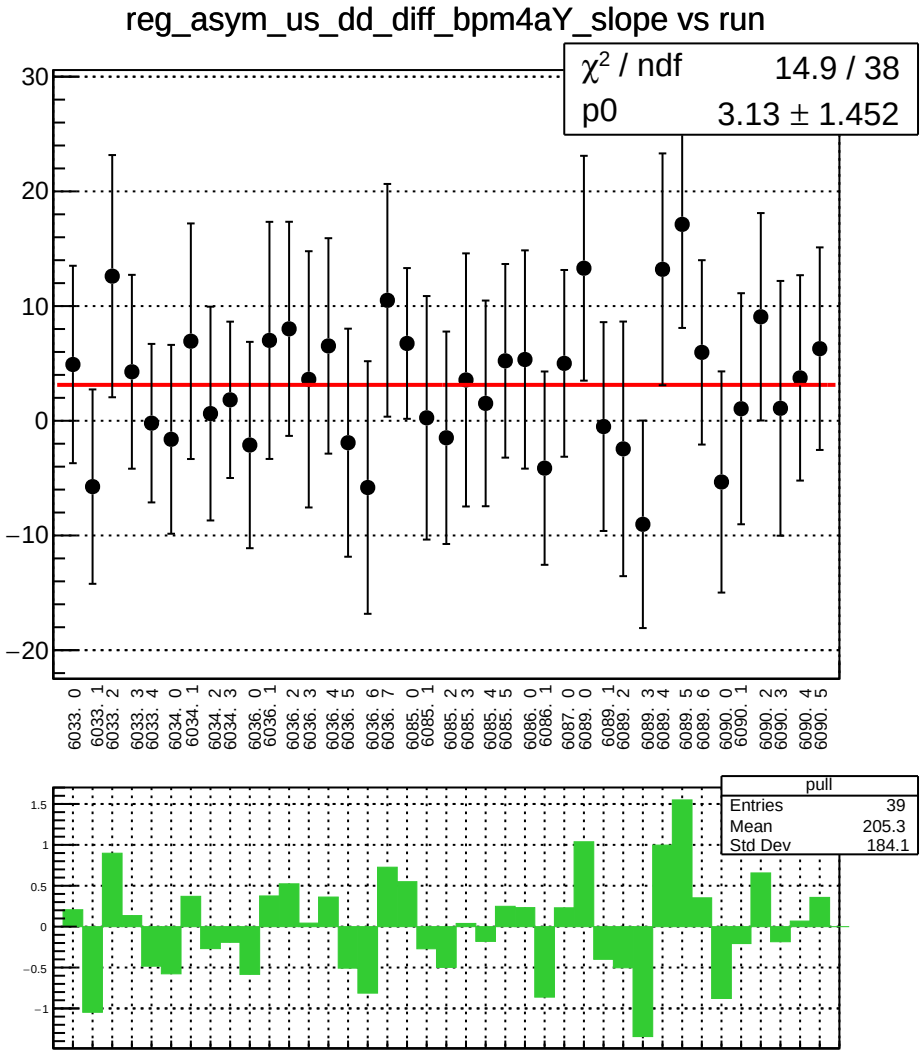

pull1D
Entries 39
Mean 0.001467
Std Dev 0.9717

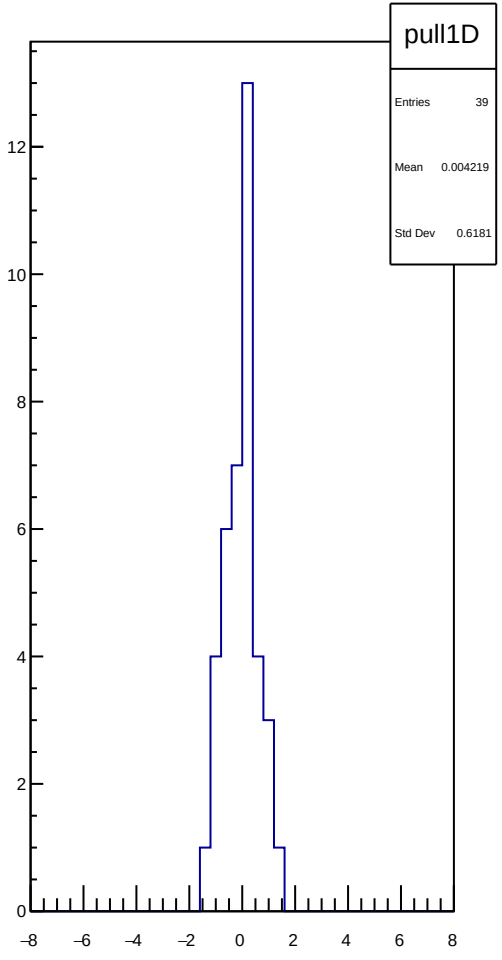

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 141.2 / 38
p0 −37.85 ± 0.1393
−34
−36
−38
−40
−42
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −703.3
Std Dev 722.7
3
2
1
0
−1
−2
−3
−4

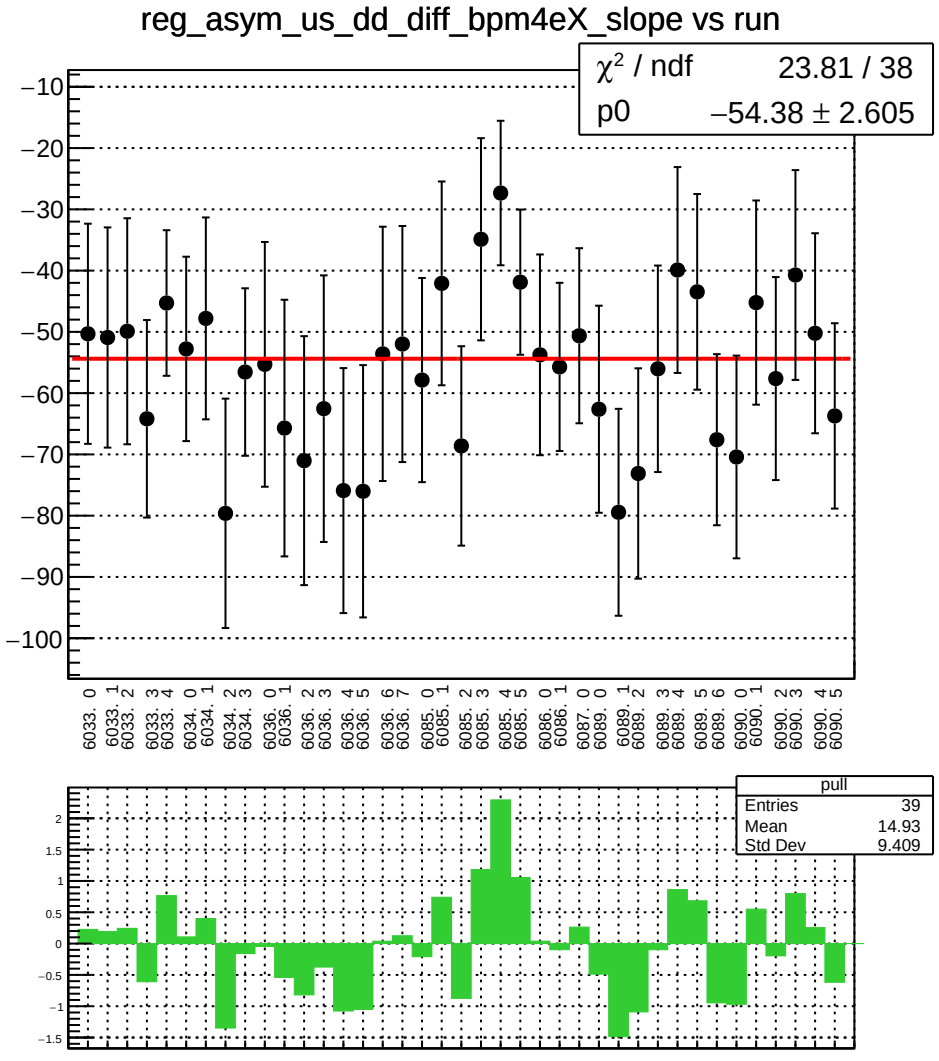

pull1D
Entries 39
Mean 0.02206
Std Dev 1.903
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

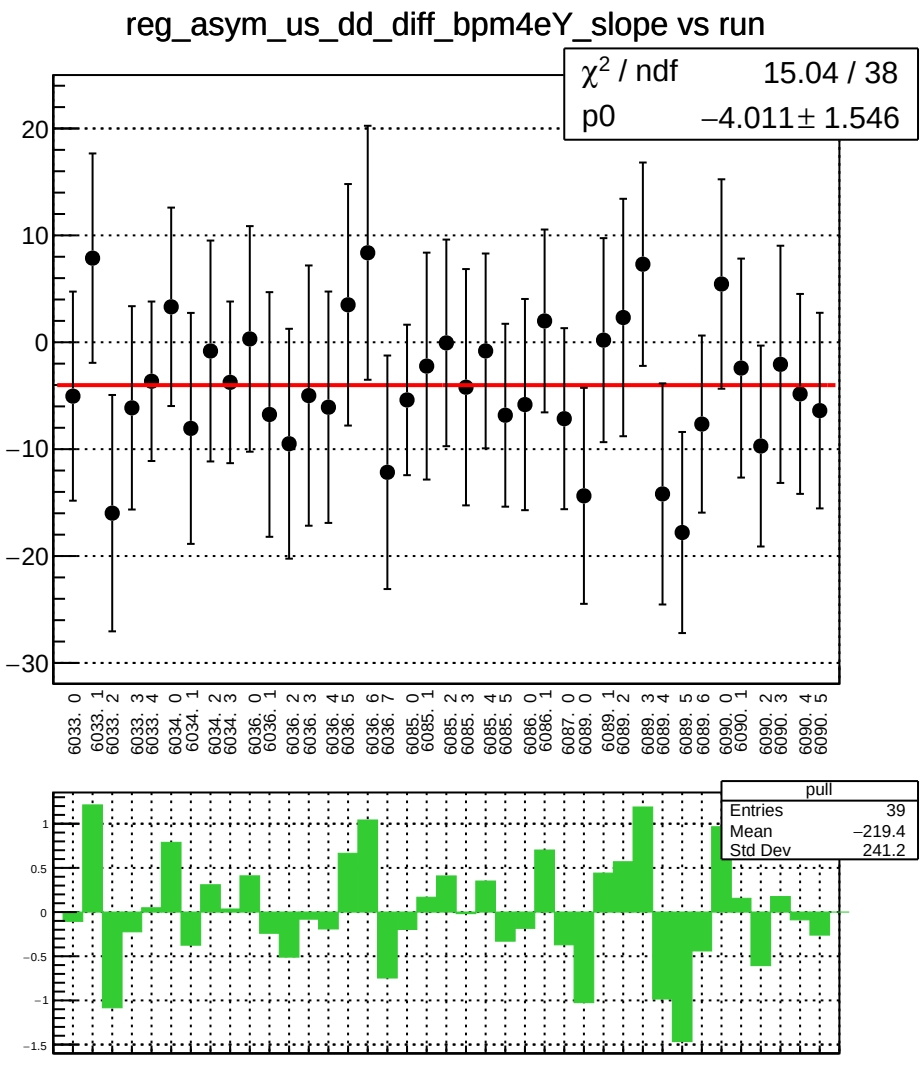

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.16 / 38
p0 −3.806 ± 2.312
pull
Entries 39
Mean 43.8
Std Dev 23.34

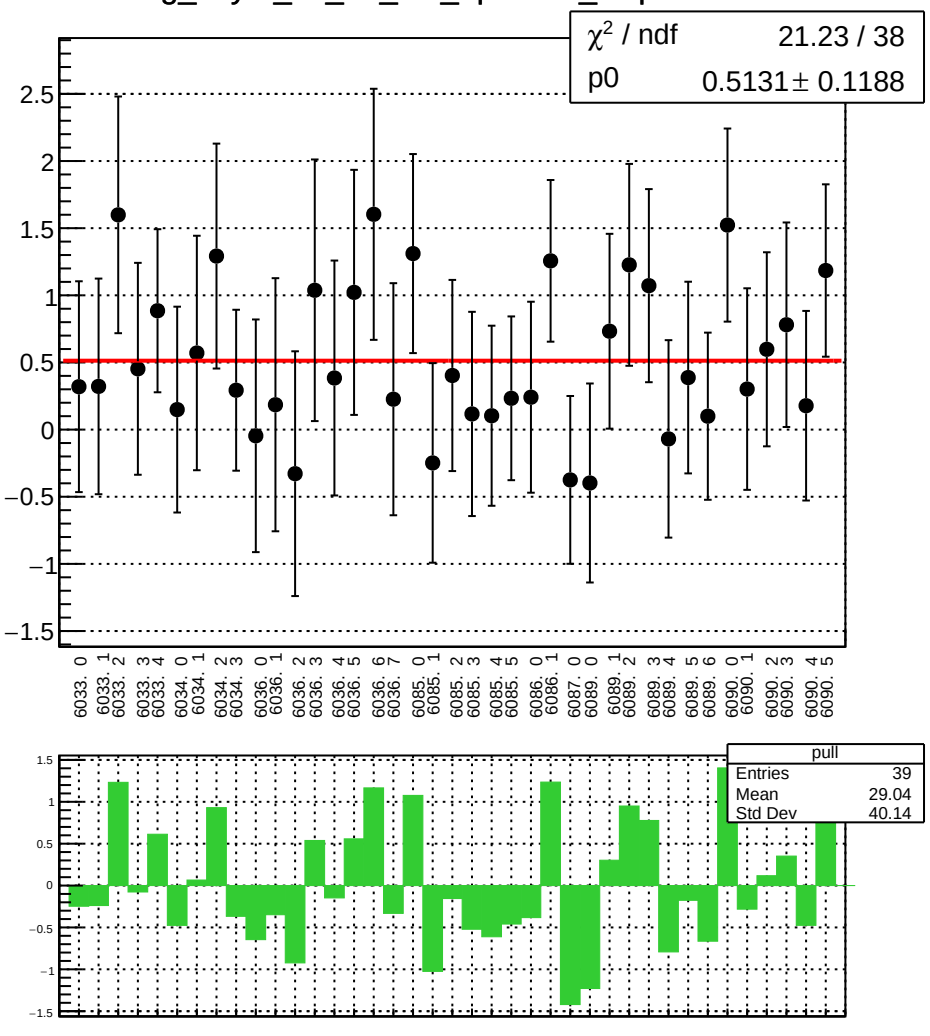

pull1D
Entries 39
Mean 0.04921
Std Dev 0.7691

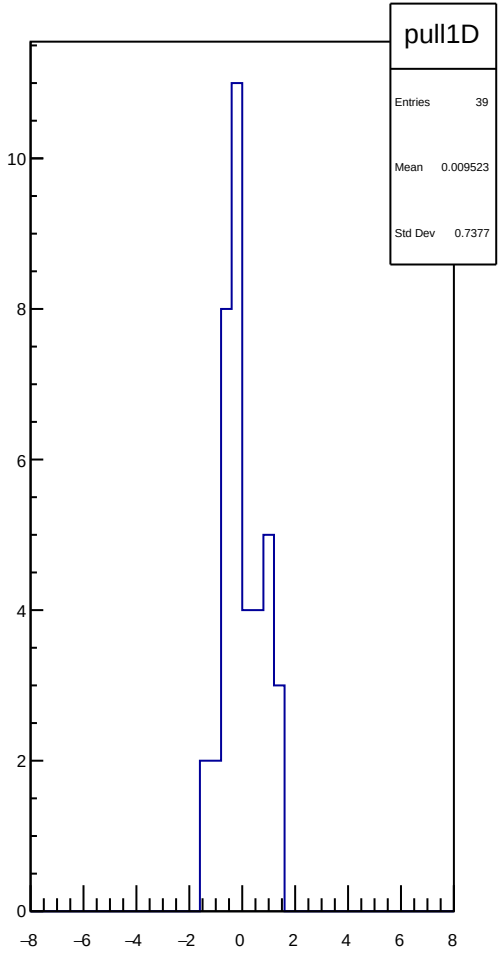

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.9 / 38
p0 3.13 ± 1.452
pull
Entries 39
Mean 205.3
Std Dev 184.1

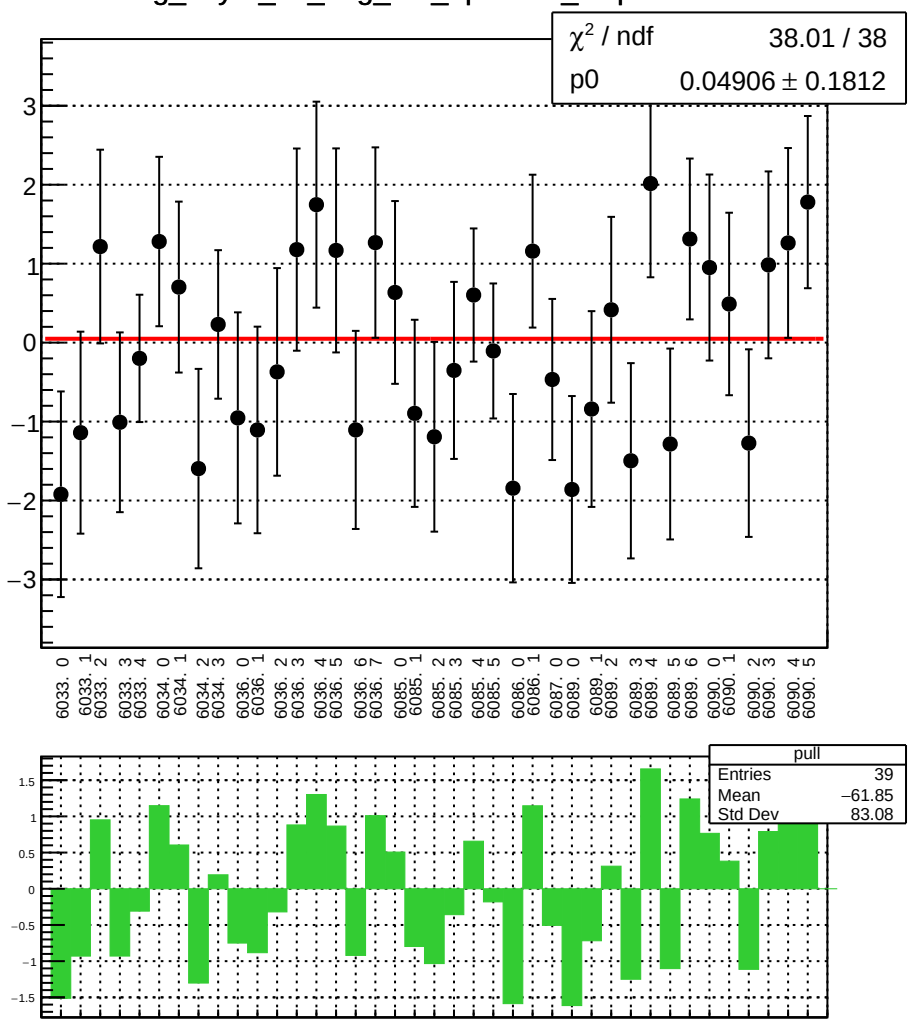

pull1D
Entries 39
Mean 0.004219
Std Dev 0.6181

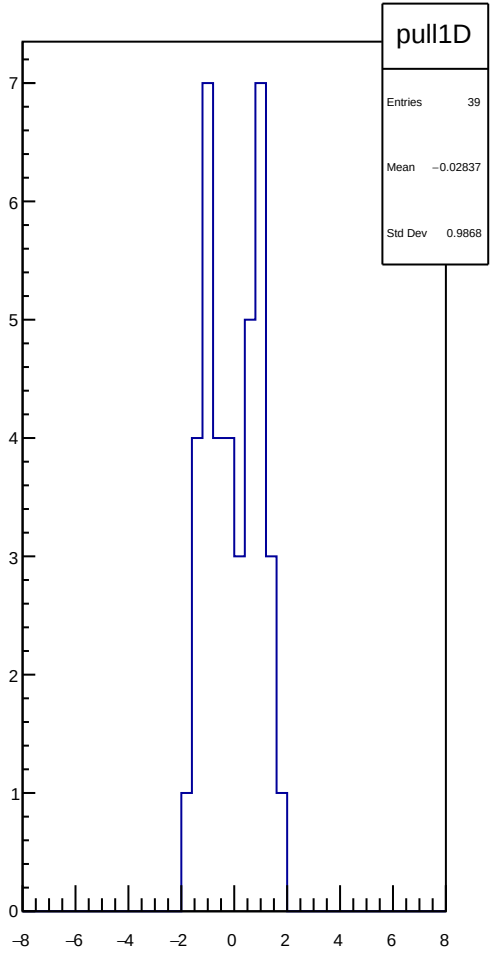

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.81 / 38
p0 −54.38 ± 2.605
pull
Entries 39
Mean 14.93
Std Dev 9.409
pull1D
Entries 39
Mean −0.05833
Std Dev 0.7792

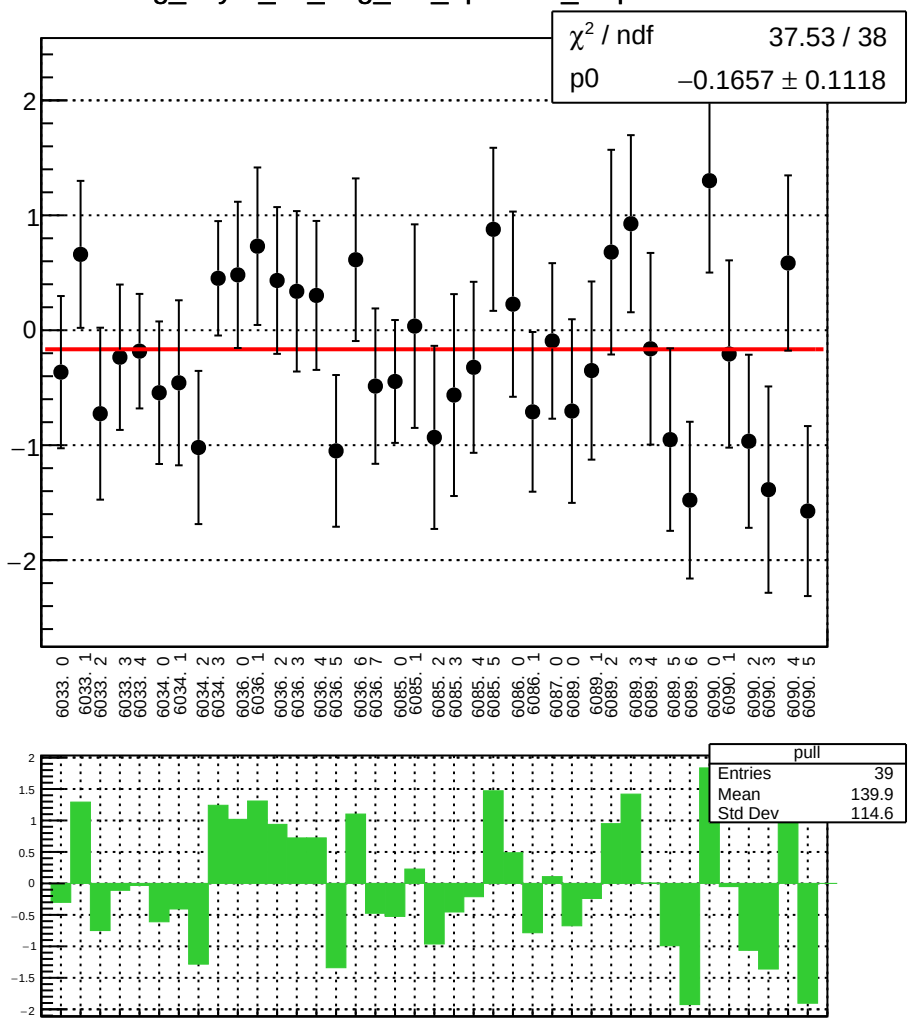

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.04 / 38
p0 −4.011 ± 1.546
20
10
0
−10
−20
−30
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −219.4
Std Dev 241.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.002997
Std Dev 0.6209
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

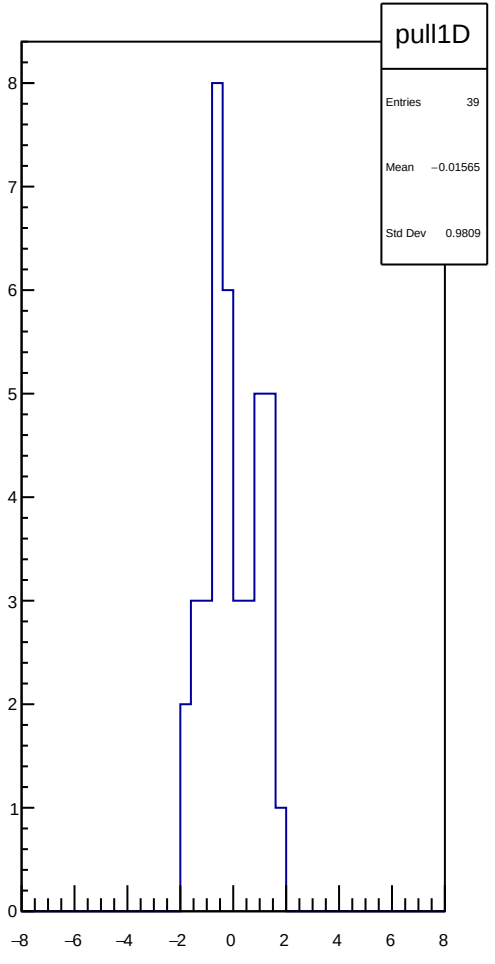

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 21.23 / 38
p0 0.5131 ± 0.1188
pull
Entries 39
Mean 29.04
Std Dev 40.14

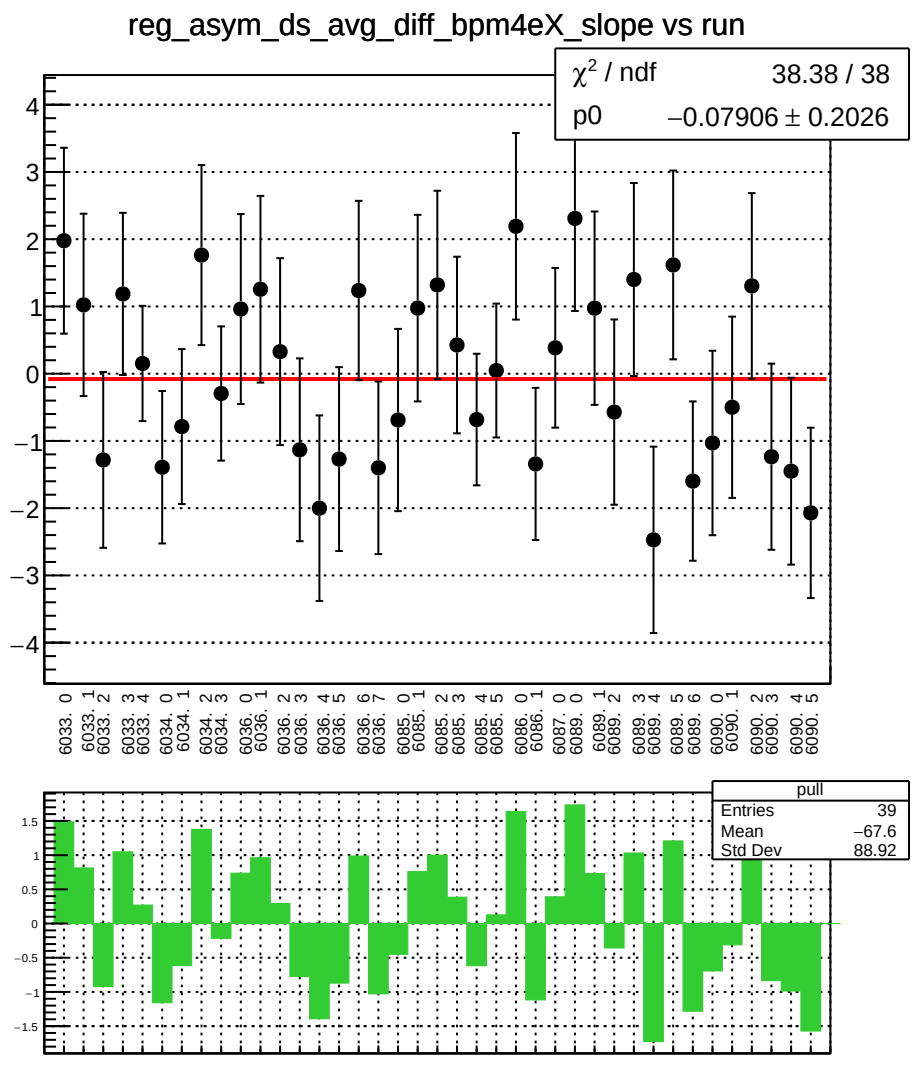

pull1D
Entries 39
Mean 0.009523
Std Dev 0.7377

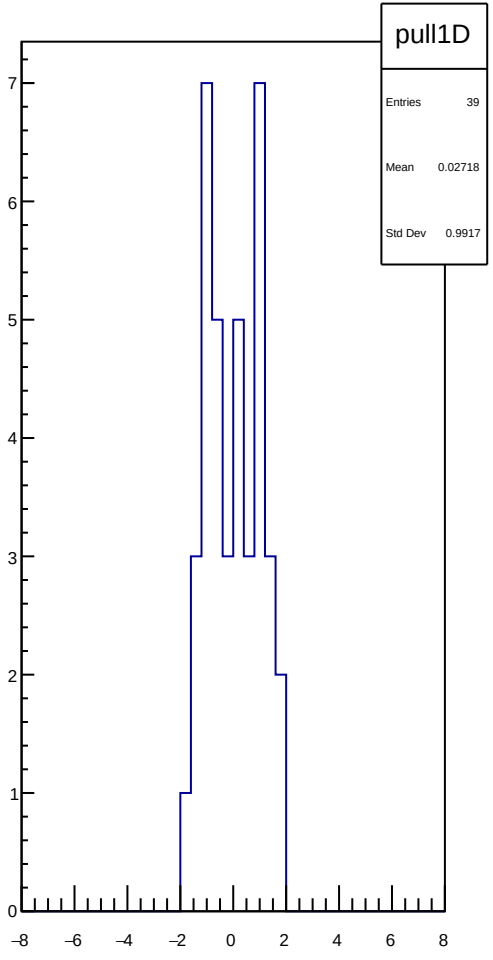

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 38.01 / 38
p0 0.04906 ± 0.1812
pull
Entries 39
Mean −61.85
Std Dev 83.08

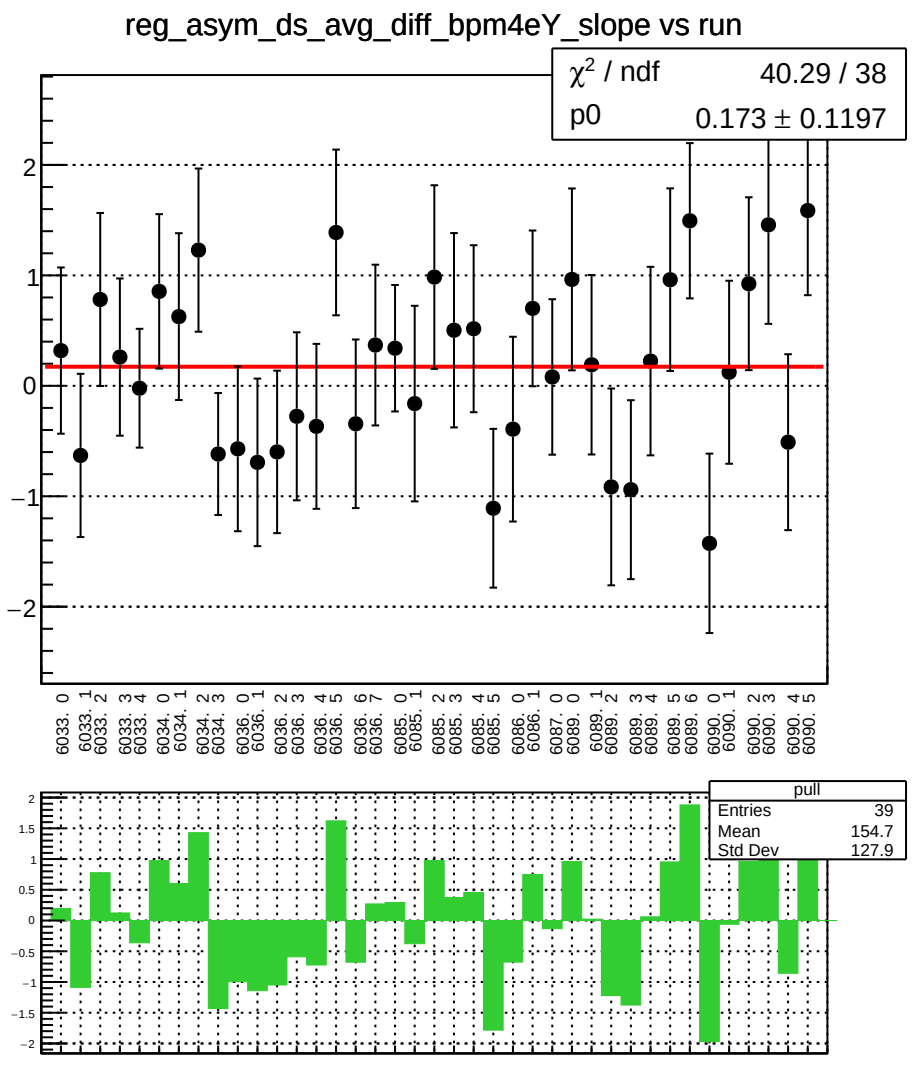

pull1D
Entries 39
Mean −0.02837
Std Dev 0.9868

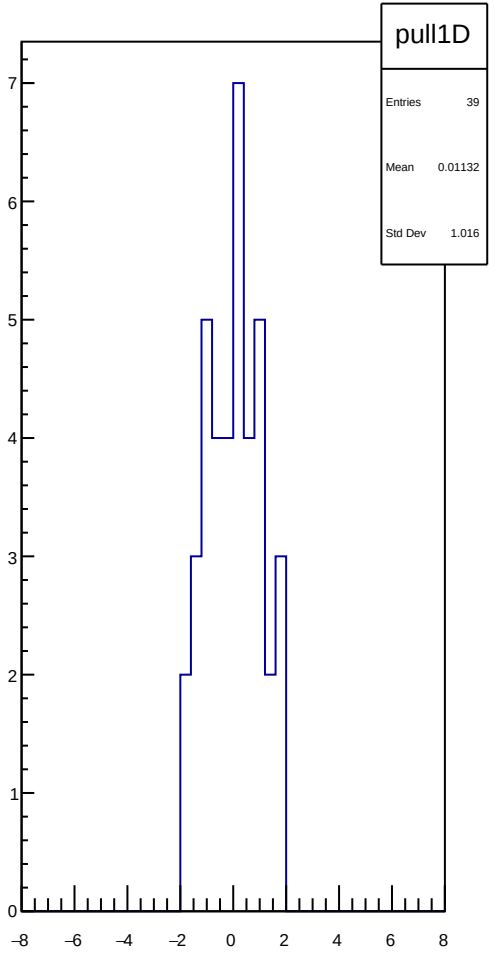

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.53 / 38
p0 −0.1657 ± 0.1118
pull
Entries 39
Mean 139.9
Std Dev 114.6

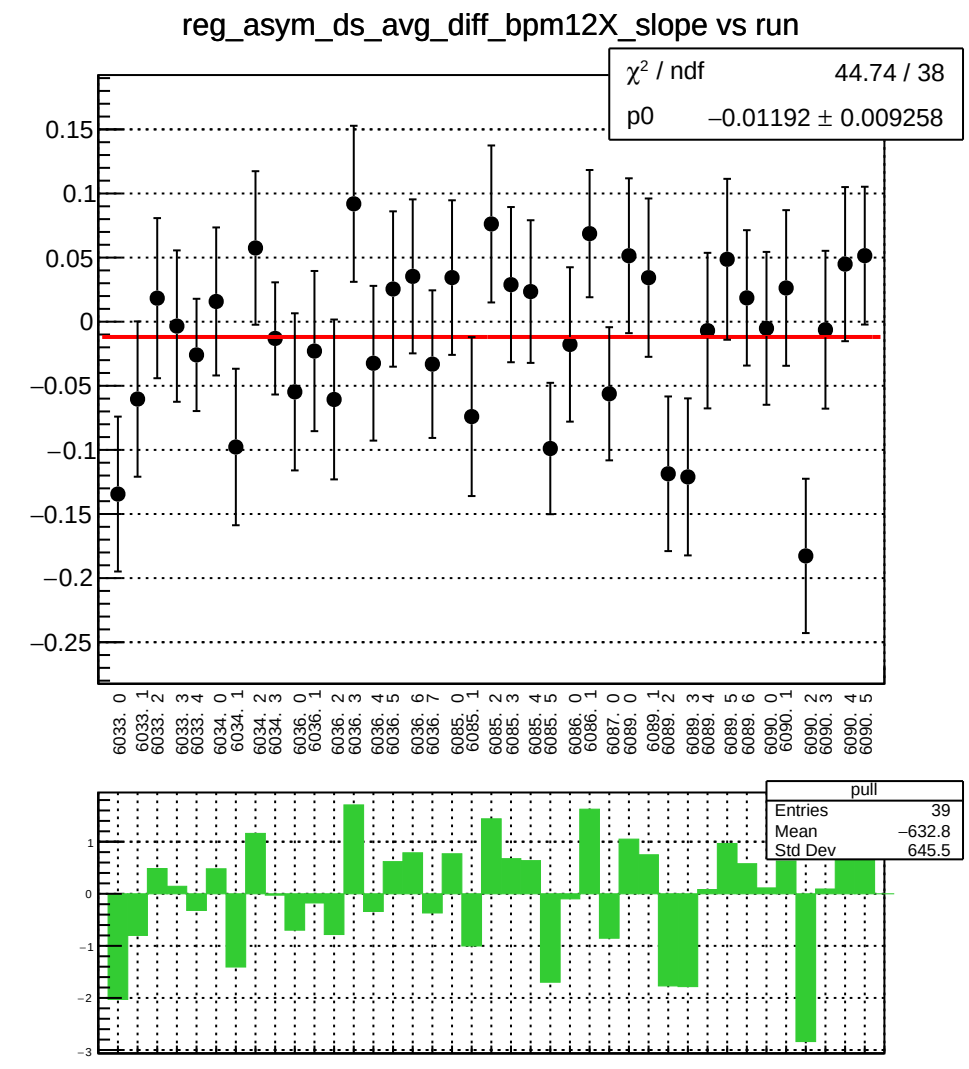

pull1D
Entries 39
Mean −0.01565
Std Dev 0.9809

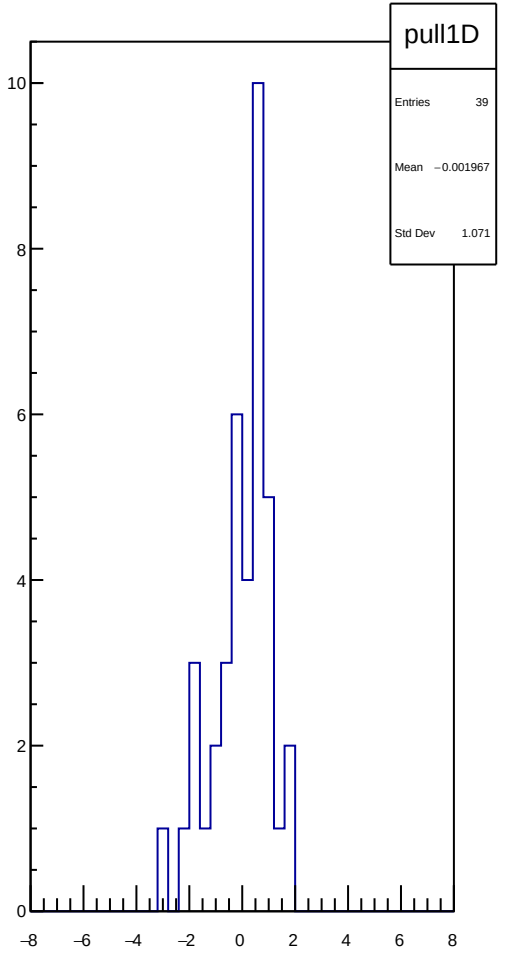

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.38 / 38
p0 −0.07906 ± 0.2026
pull
Entries 39
Mean −67.6
Std Dev 88.92

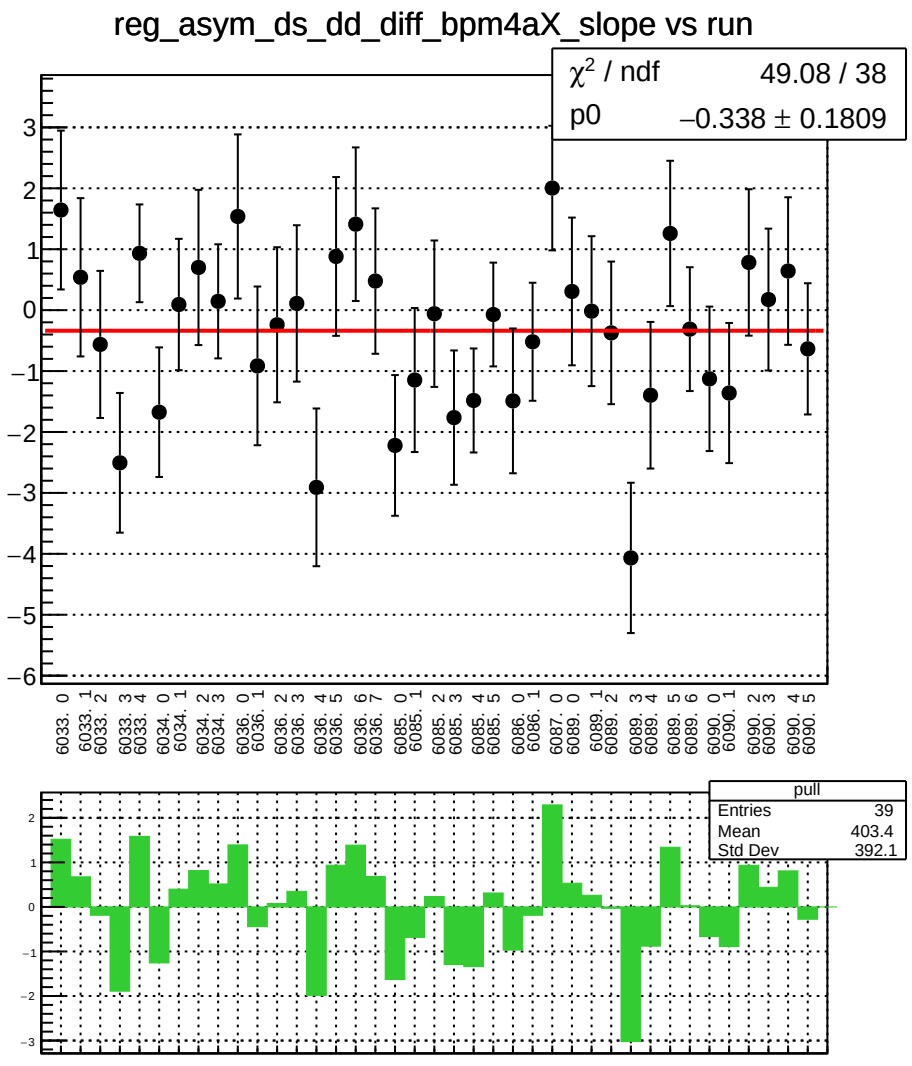

pull1D
Entries 39
Mean 0.02718
Std Dev 0.9917

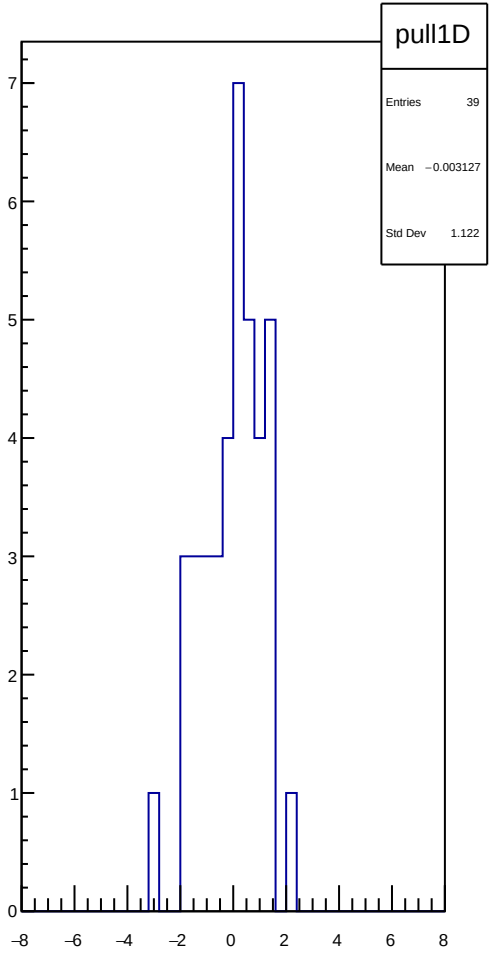

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.29 / 38
p0 0.173 ± 0.1197
pull
Entries 39
Mean 154.7
Std Dev 127.9

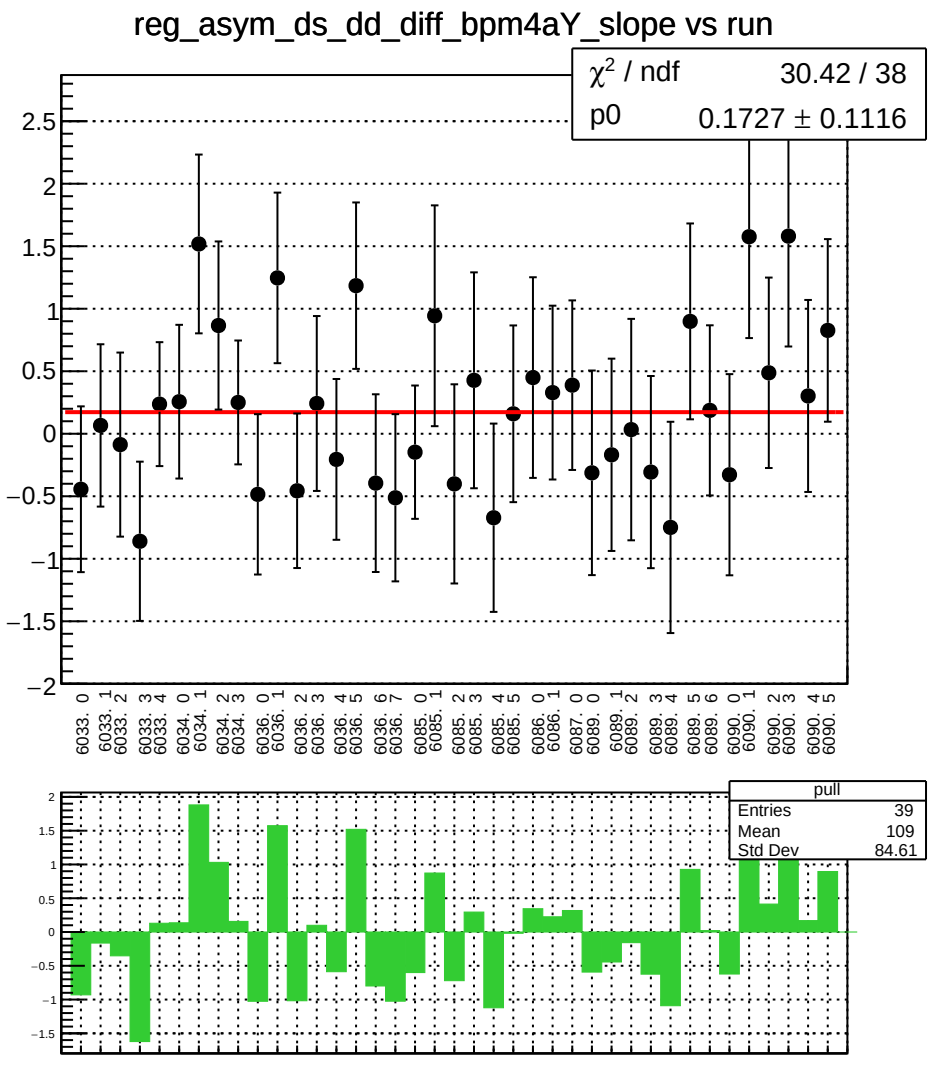

pull1D
Entries 39
Mean 0.01132
Std Dev 1.016

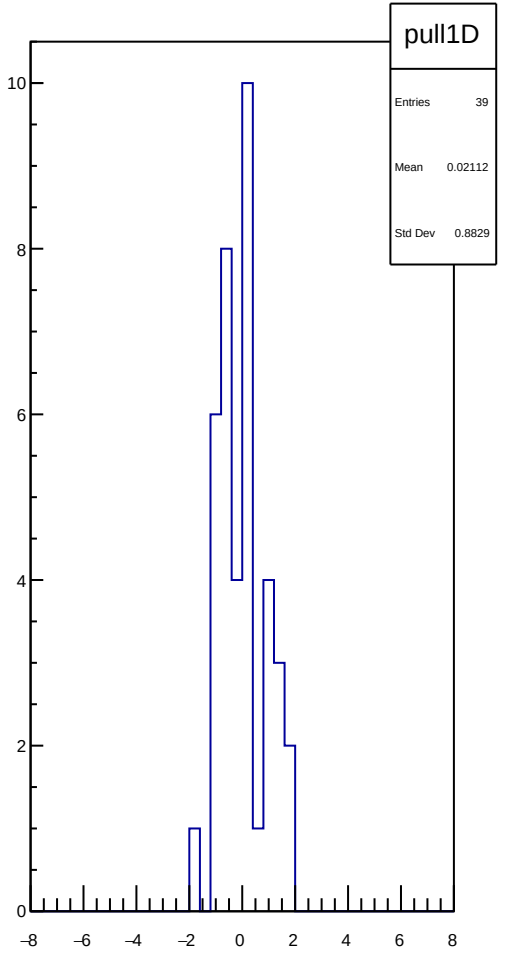

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 44.74 / 38
p0 −0.01192 ± 0.009258
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −632.8
Std Dev 645.5
1
0
−1
−2
−3

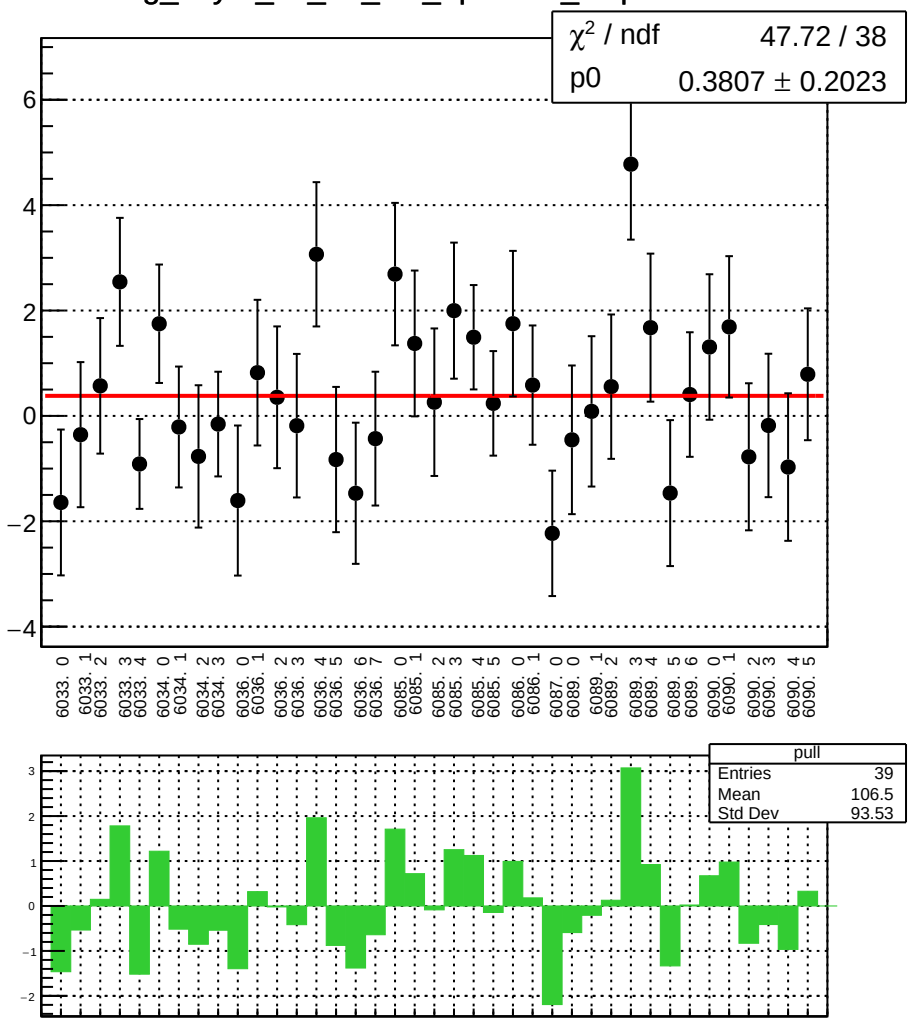

pull1D
Entries 39
Mean −0.001967
Std Dev 1.071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

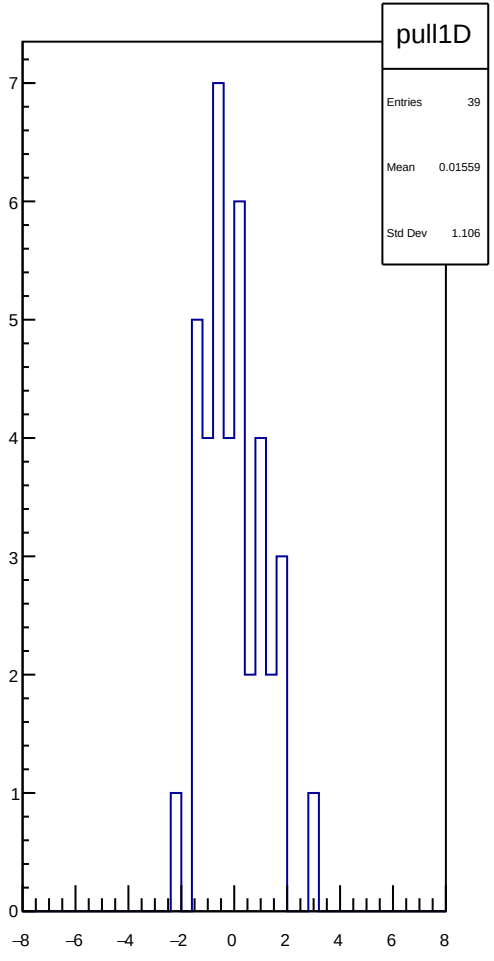

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 49.08 / 38
p0 −0.338 ± 0.1809
pull
Entries 39
Mean 403.4
Std Dev 392.1

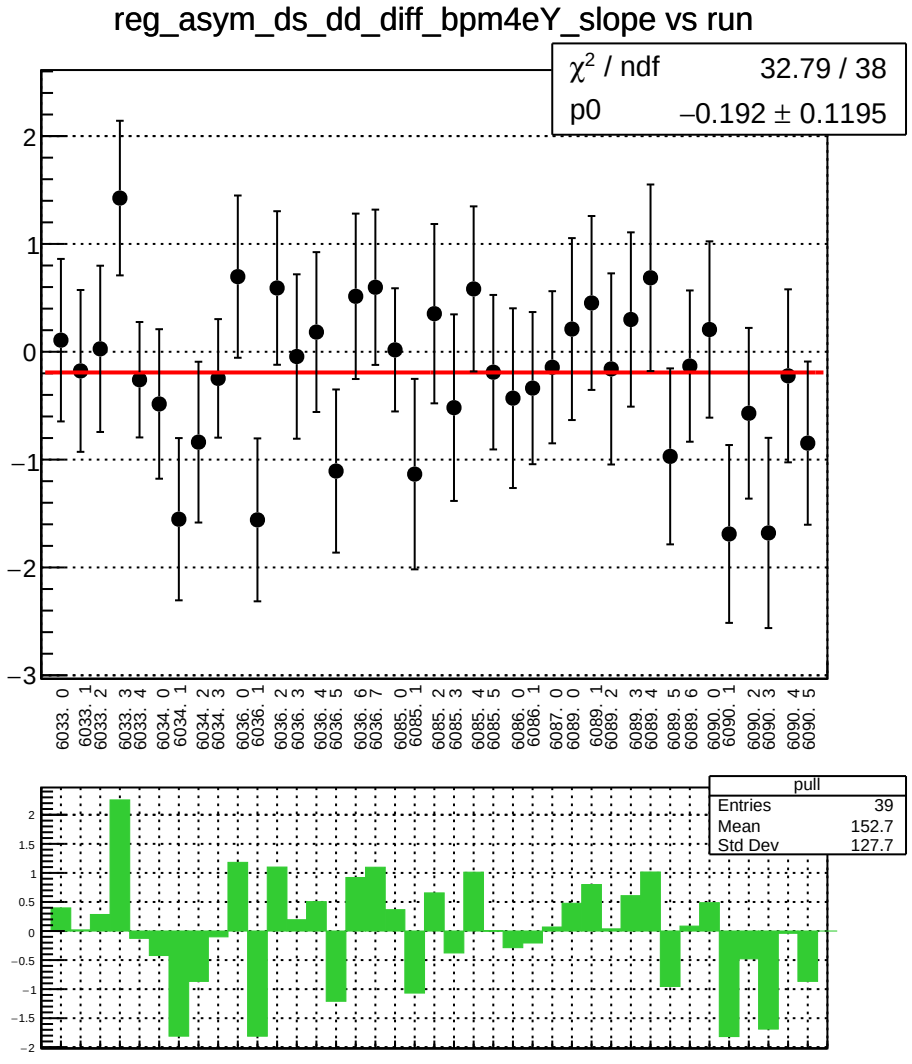

pull1D
Entries 39
Mean −0.003127
Std Dev 1.122

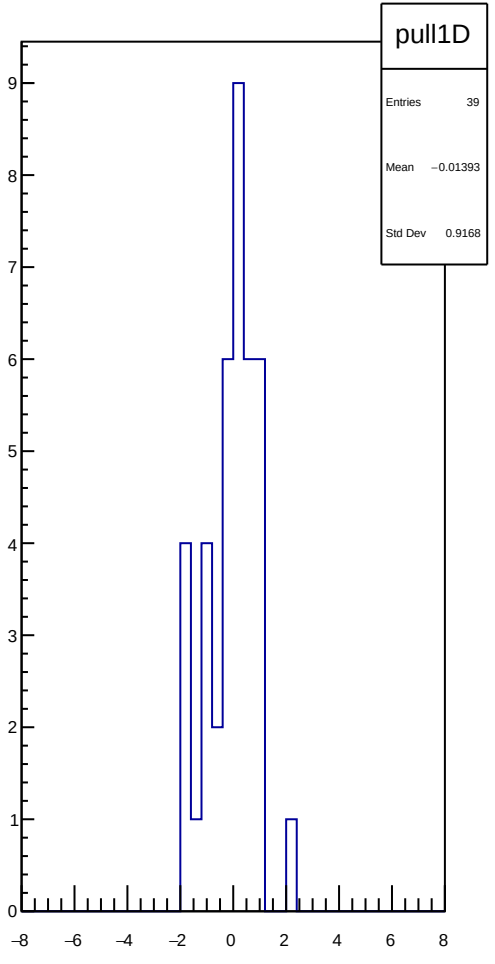

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.42 / 38
p0 0.1727 ± 0.1116
pull
Entries 39
Mean 109
Std Dev 84.61

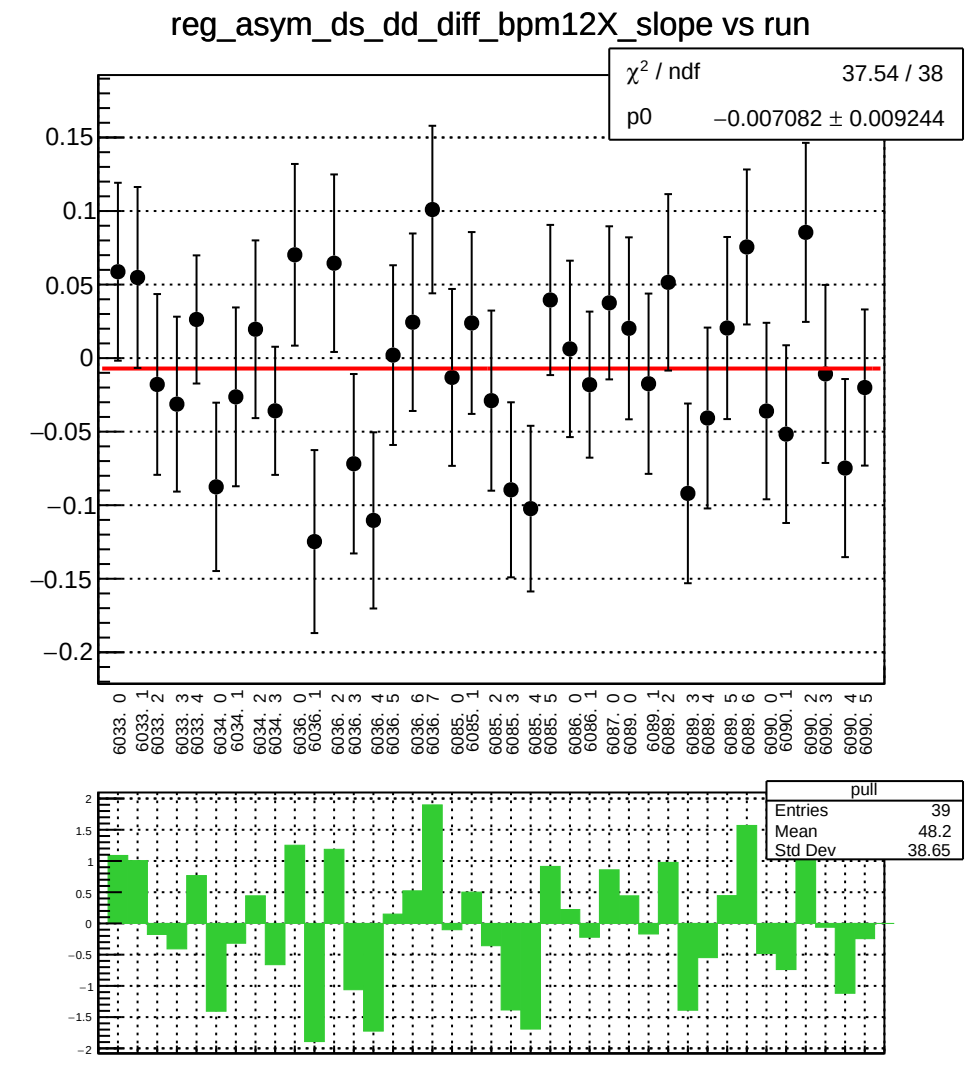

pull1D
Entries 39
Mean 0.02112
Std Dev 0.8829

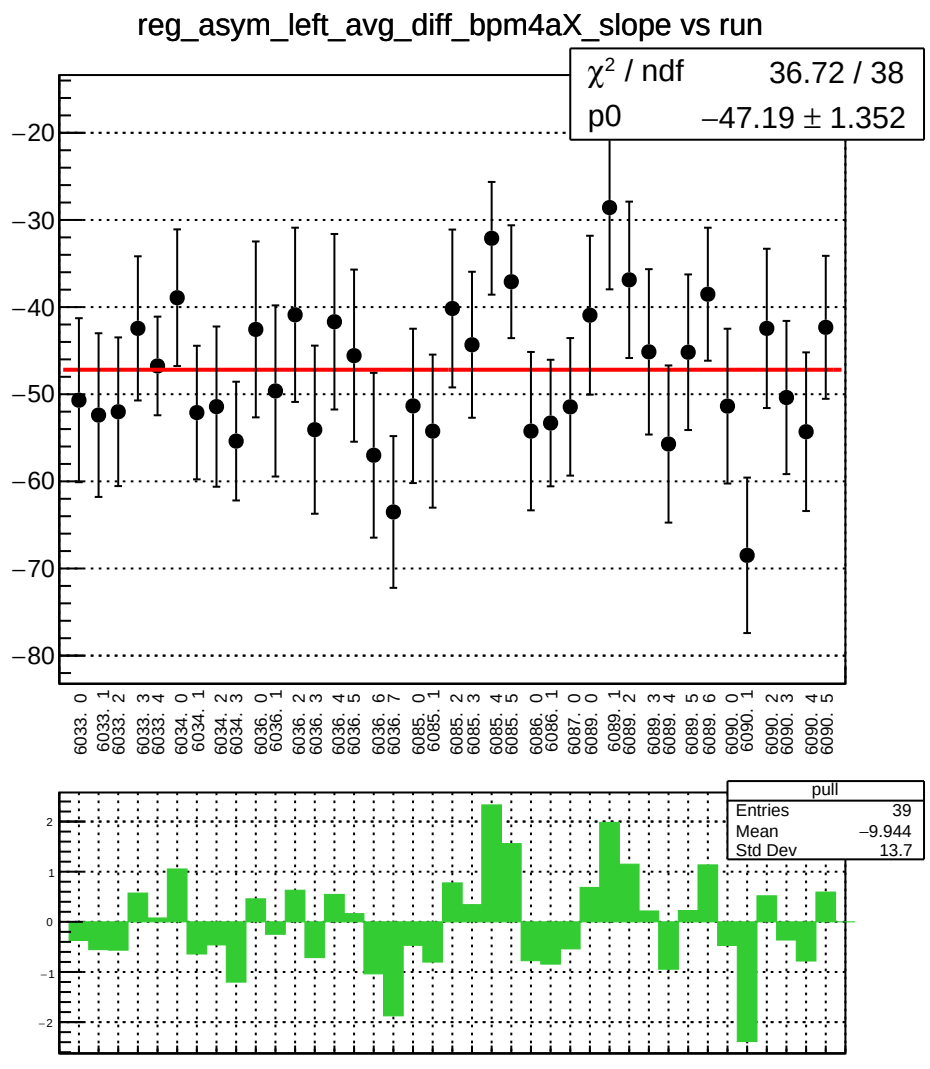

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.72 / 38
p0 0.3807 ± 0.2023
pull
Entries 39
Mean 106.5
Std Dev 93.53

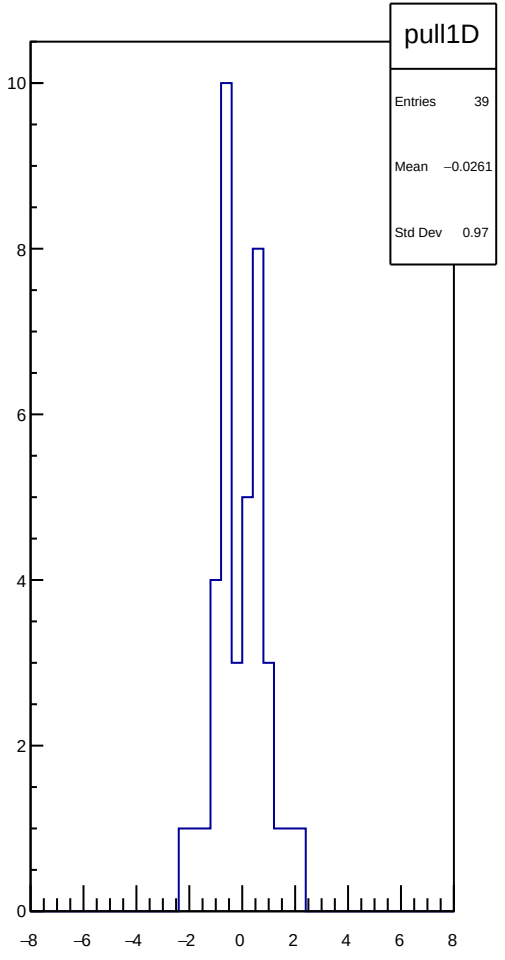

pull1D
Entries 39
Mean 0.01559
Std Dev 1.106

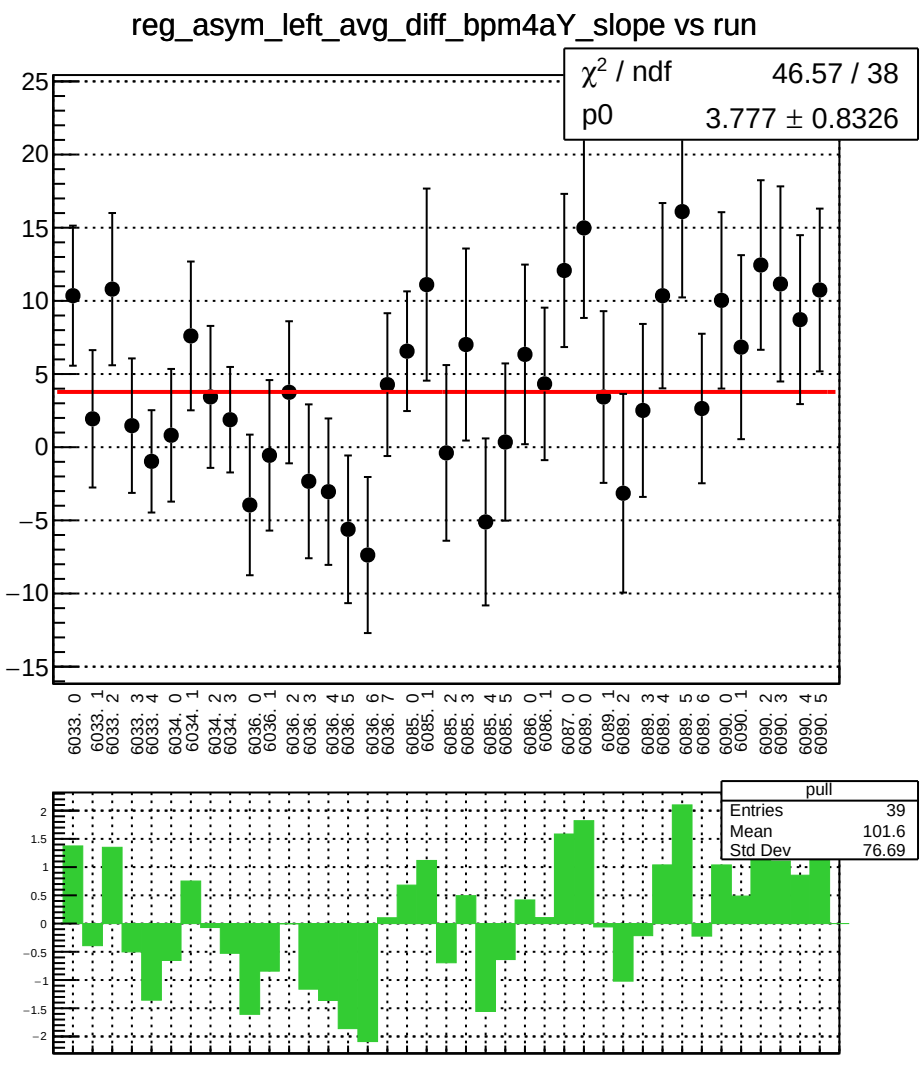

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.79 / 38
p0 −0.192 ± 0.1195
pull
Entries 39
Mean 152.7
Std Dev 127.7

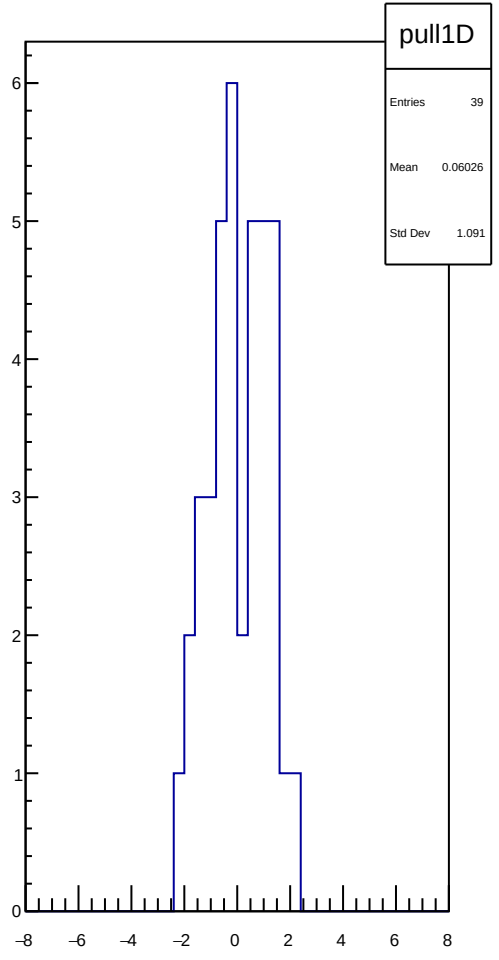

pull1D
Entries 39
Mean −0.01393
Std Dev 0.9168

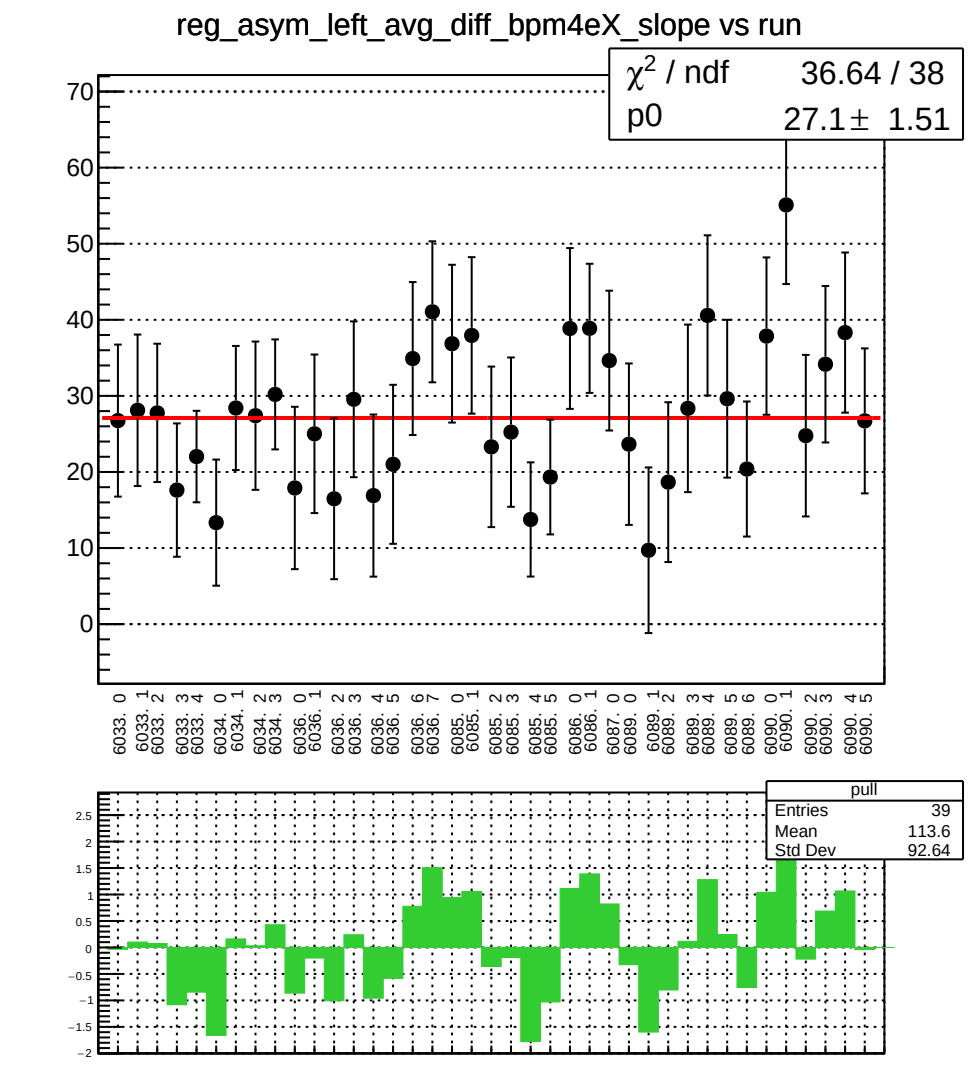

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 37.54 / 38
p0 −0.007082 ± 0.009244
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 48.2
Std Dev 38.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.009885
Std Dev 0.981
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

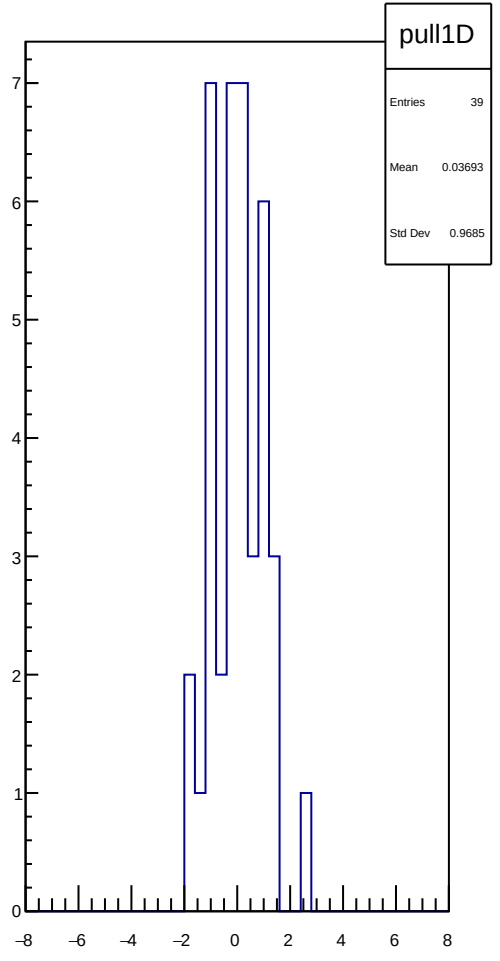

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.72 / 38
p0 −47.19 ± 1.352
pull
Entries 39
Mean −9.944
Std Dev 13.7

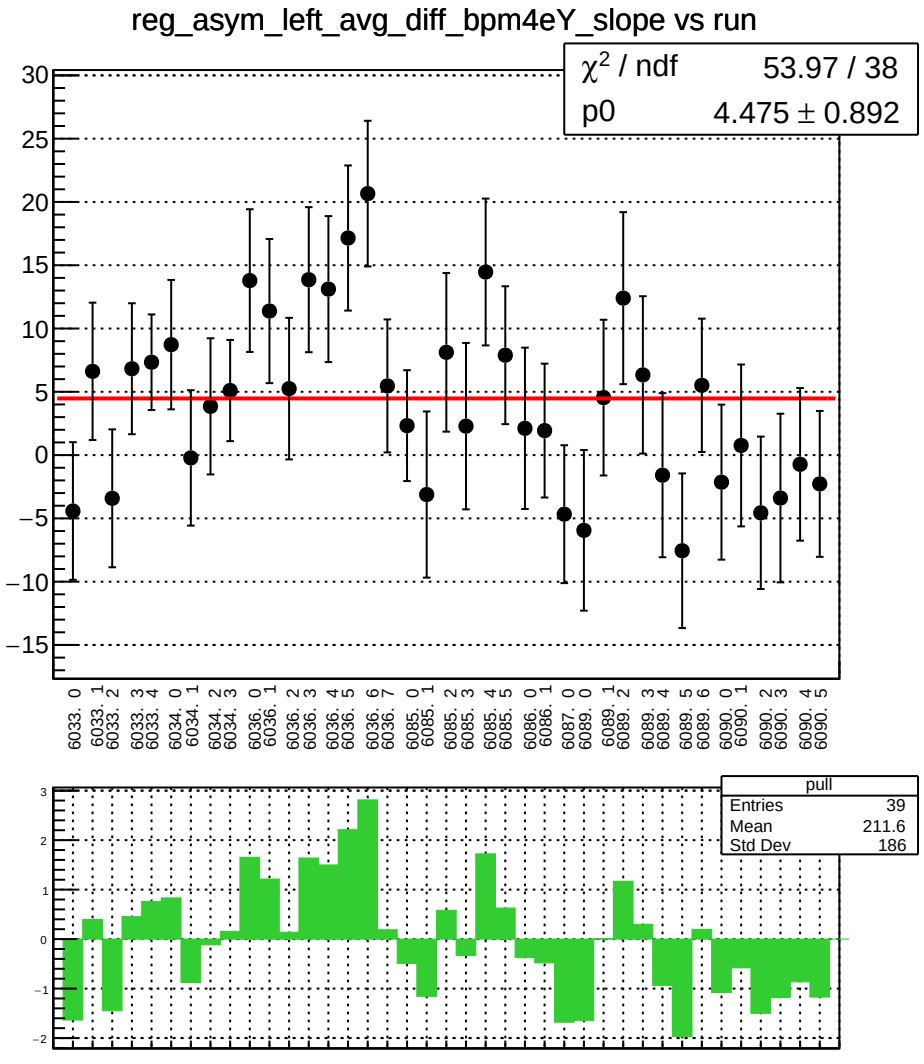

pull1D
Entries 39
Mean −0.0261
Std Dev 0.97

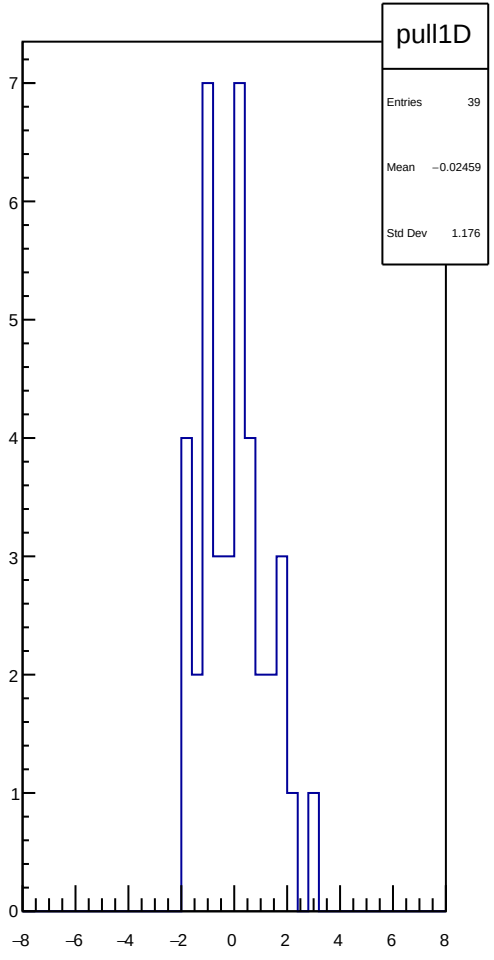

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.57 / 38
p0 3.777 ± 0.8326
pull
Entries 39
Mean 101.6
Std Dev 76.69

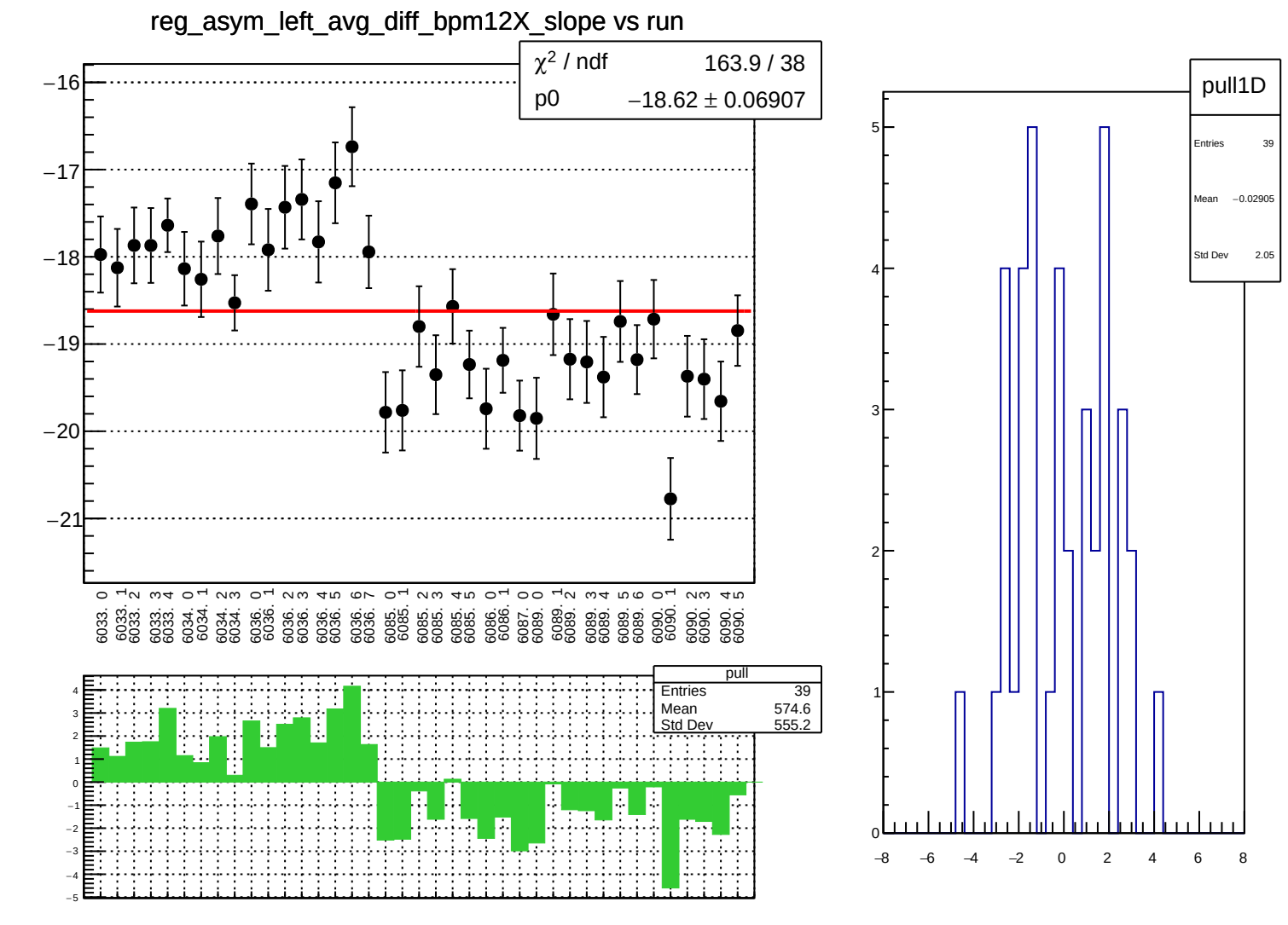

pull1D
Entries 39
Mean 0.06026
Std Dev 1.091

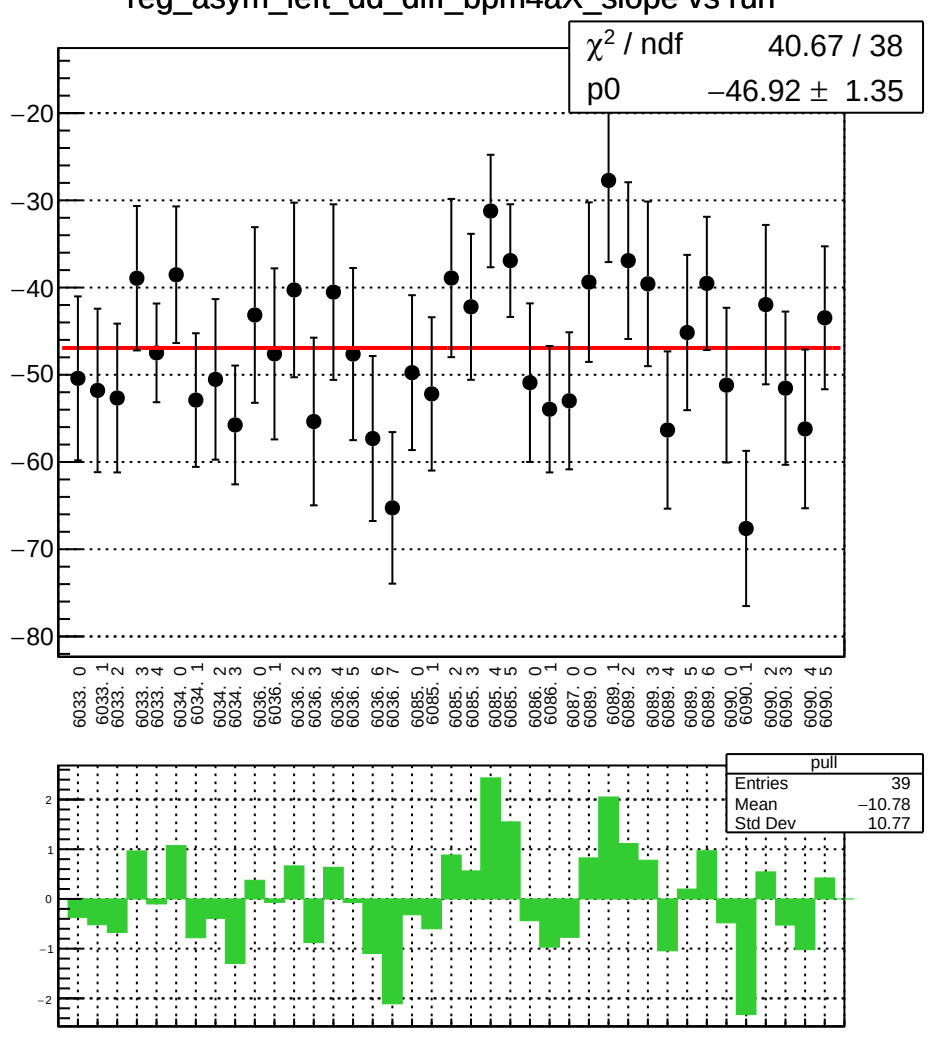

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.64 / 38
p0 27.1 ± 1.51
pull
Entries 39
Mean 113.6
Std Dev 92.64

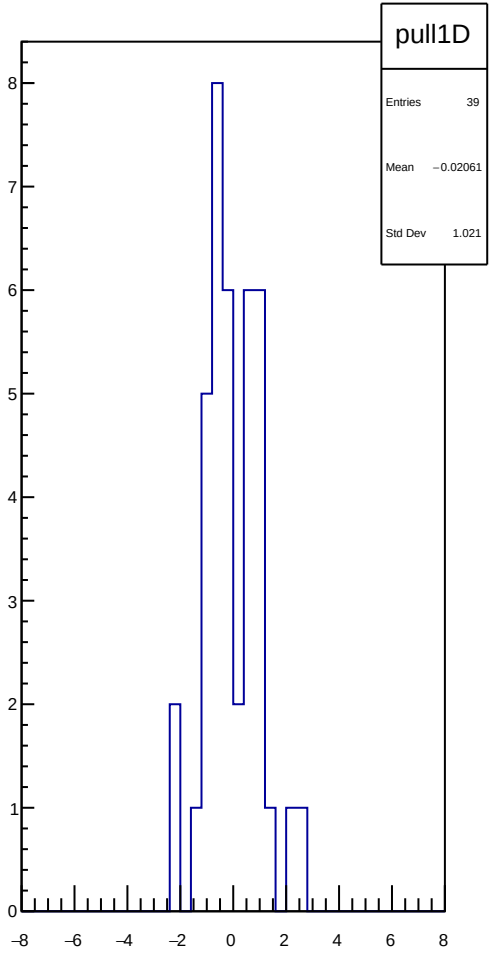

pull1D
Entries 39
Mean 0.03693
Std Dev 0.9685

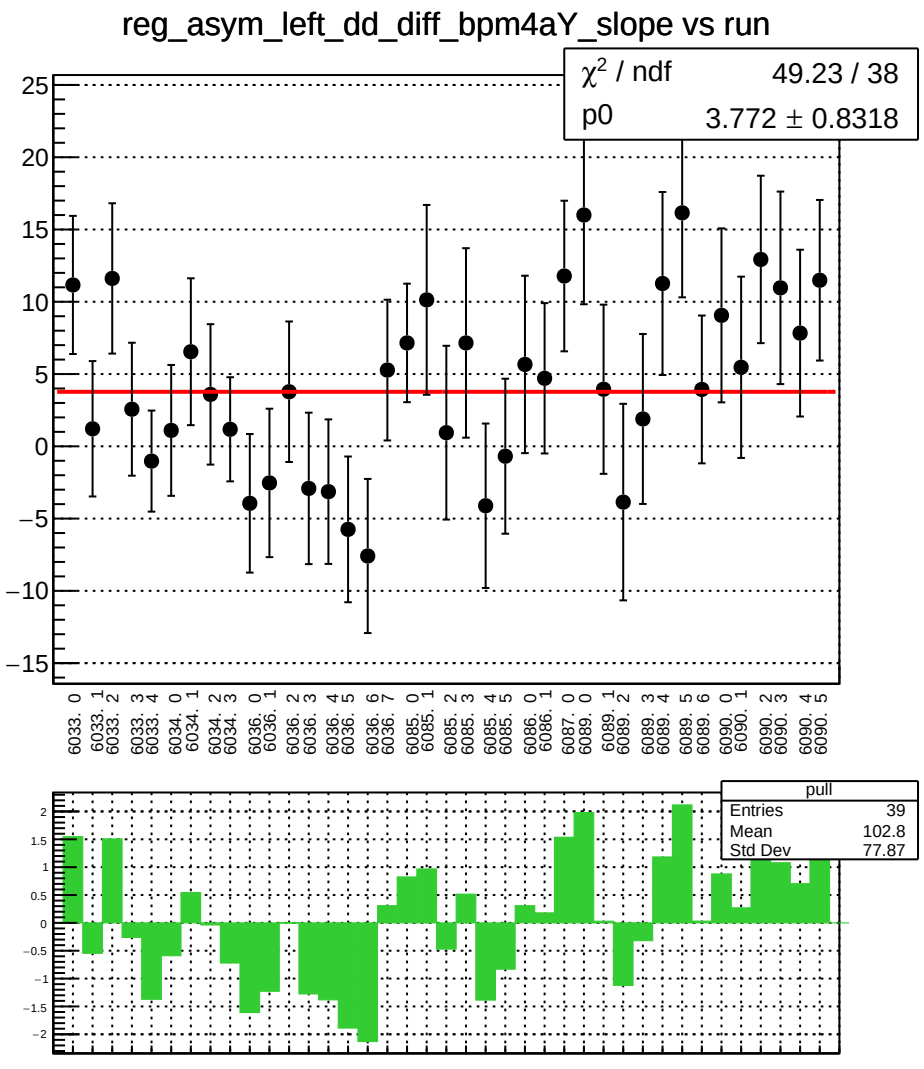

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.97 / 38
p0 4.475 ± 0.892
pull
Entries 39
Mean 211.6
Std Dev 186

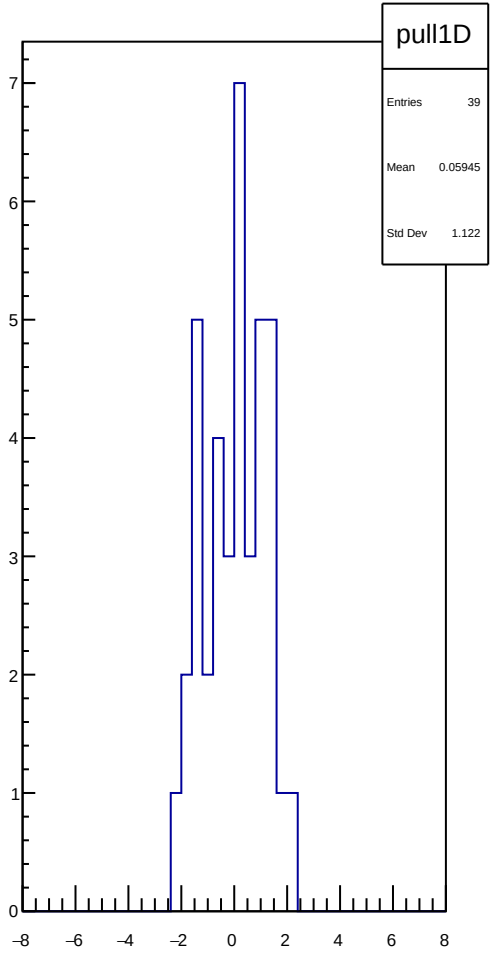

pull1D
Entries 39
Mean −0.02459
Std Dev 1.176

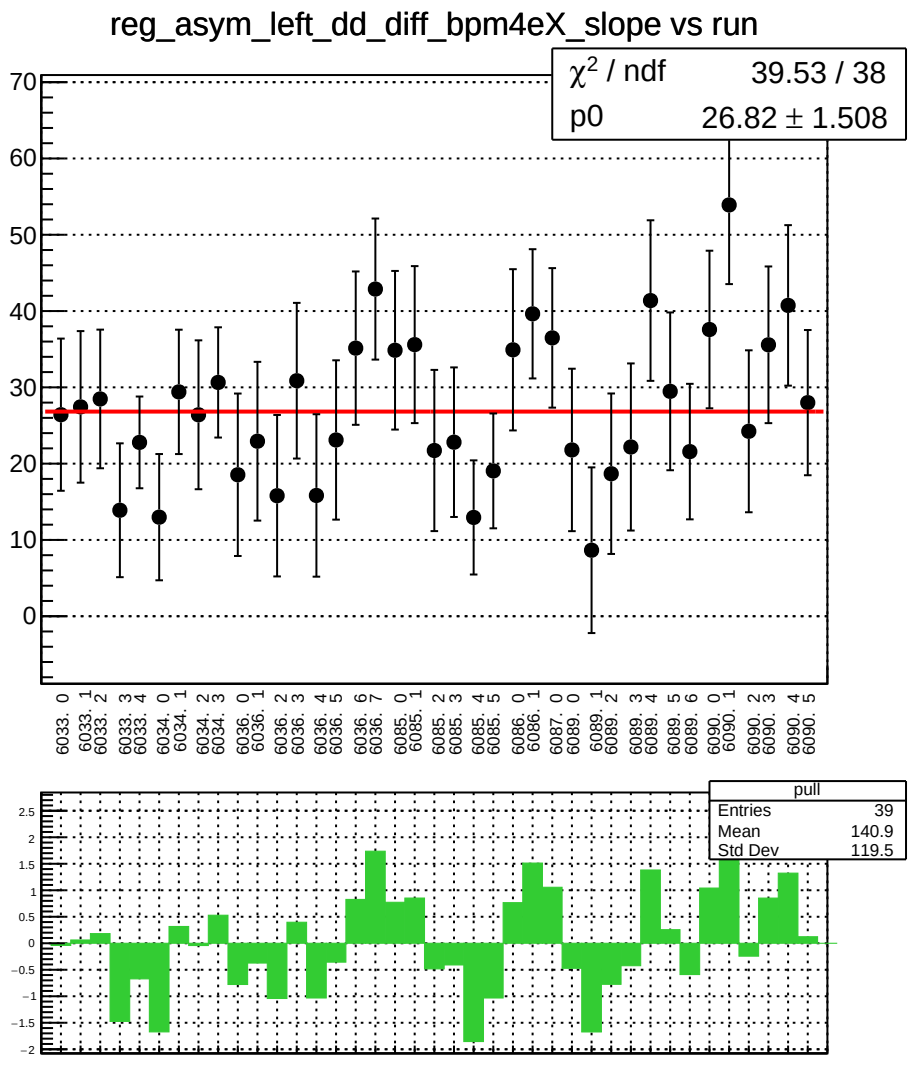

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 163.9 / 38
p0 −18.62 ± 0.06907
pull
Entries 39
Mean 574.6
Std Dev 555.2
pull1D
Entries 39
Mean −0.02905
Std Dev 2.05

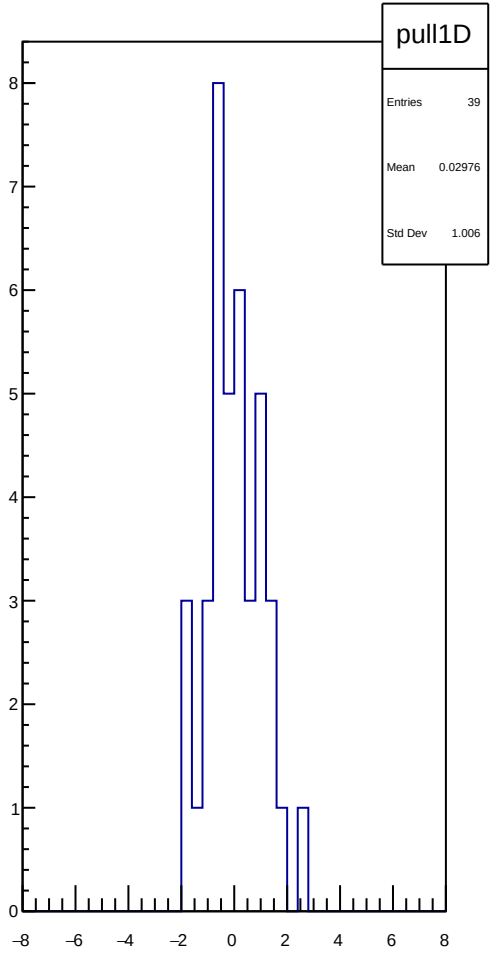

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.67 / 38
p0 −46.92 ± 1.35
−20
−30
−40
−50
−60
−70
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −10.78
Std Dev 10.77
2
1
0
−1
−2

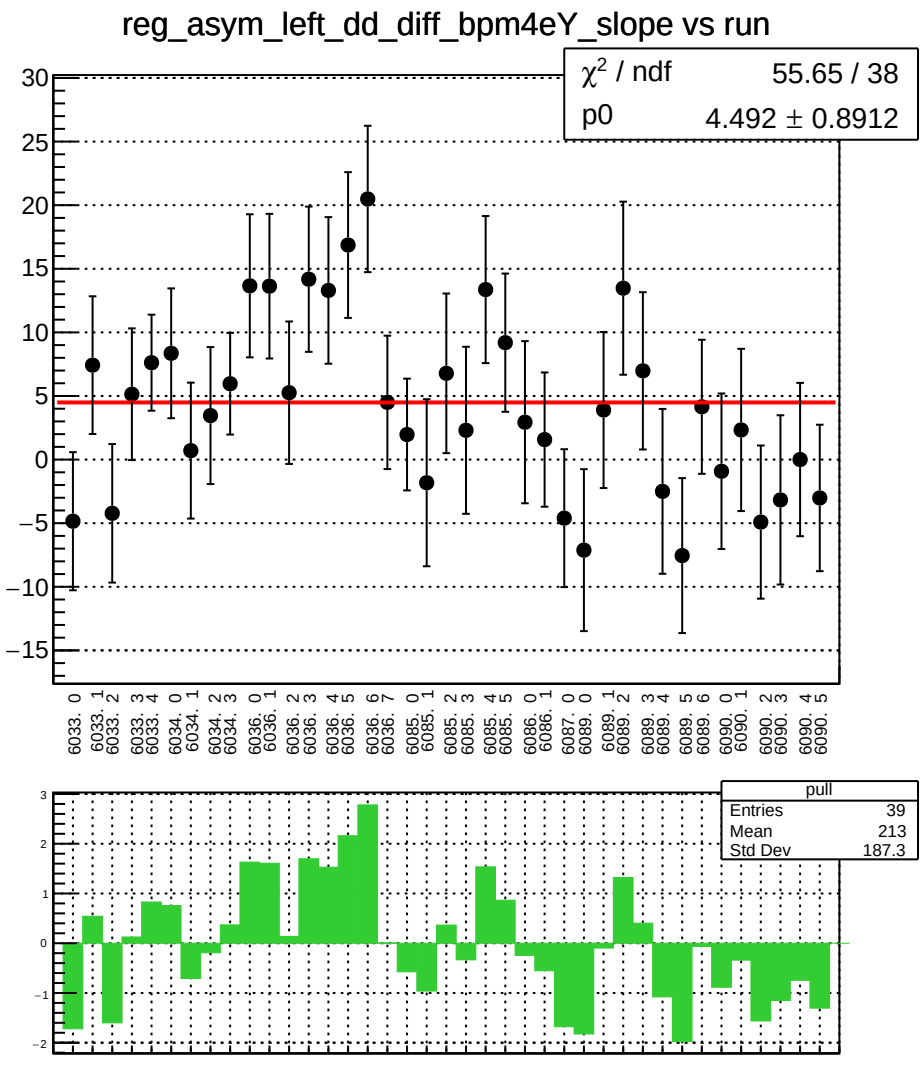

pull1D
Entries 39
Mean −0.02061
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

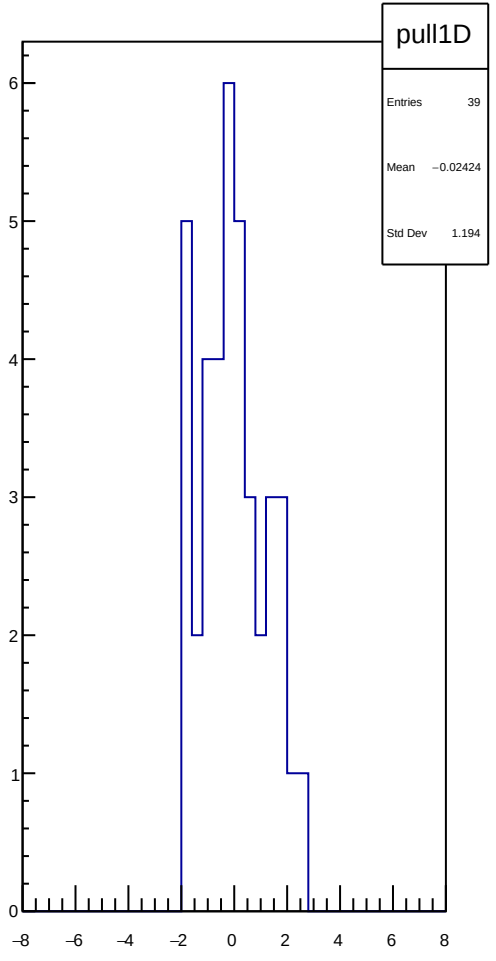

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.23 / 38
p0 3.772 ± 0.8318
pull
Entries 39
Mean 102.8
Std Dev 77.87

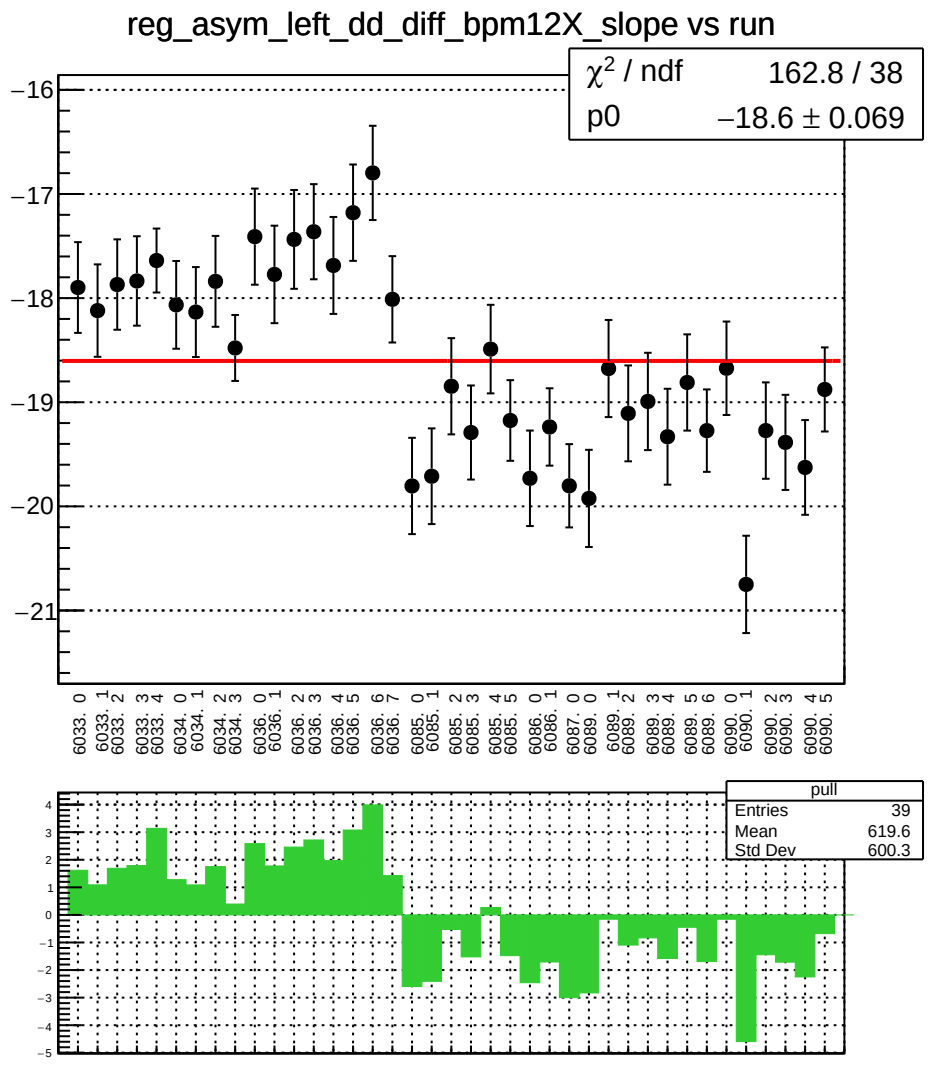

pull1D
Entries 39
Mean 0.05945
Std Dev 1.122

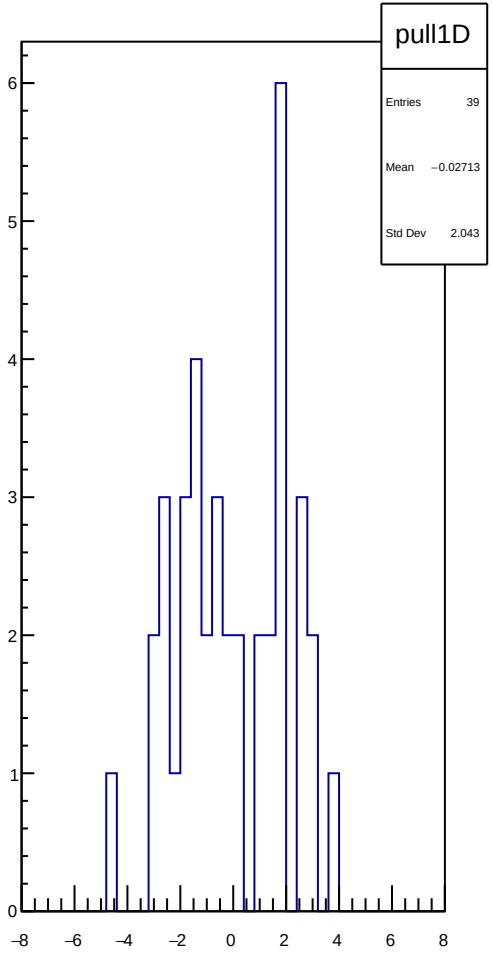

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.53 / 38
p0 26.82 ± 1.508
pull
Entries 39
Mean 140.9
Std Dev 119.5

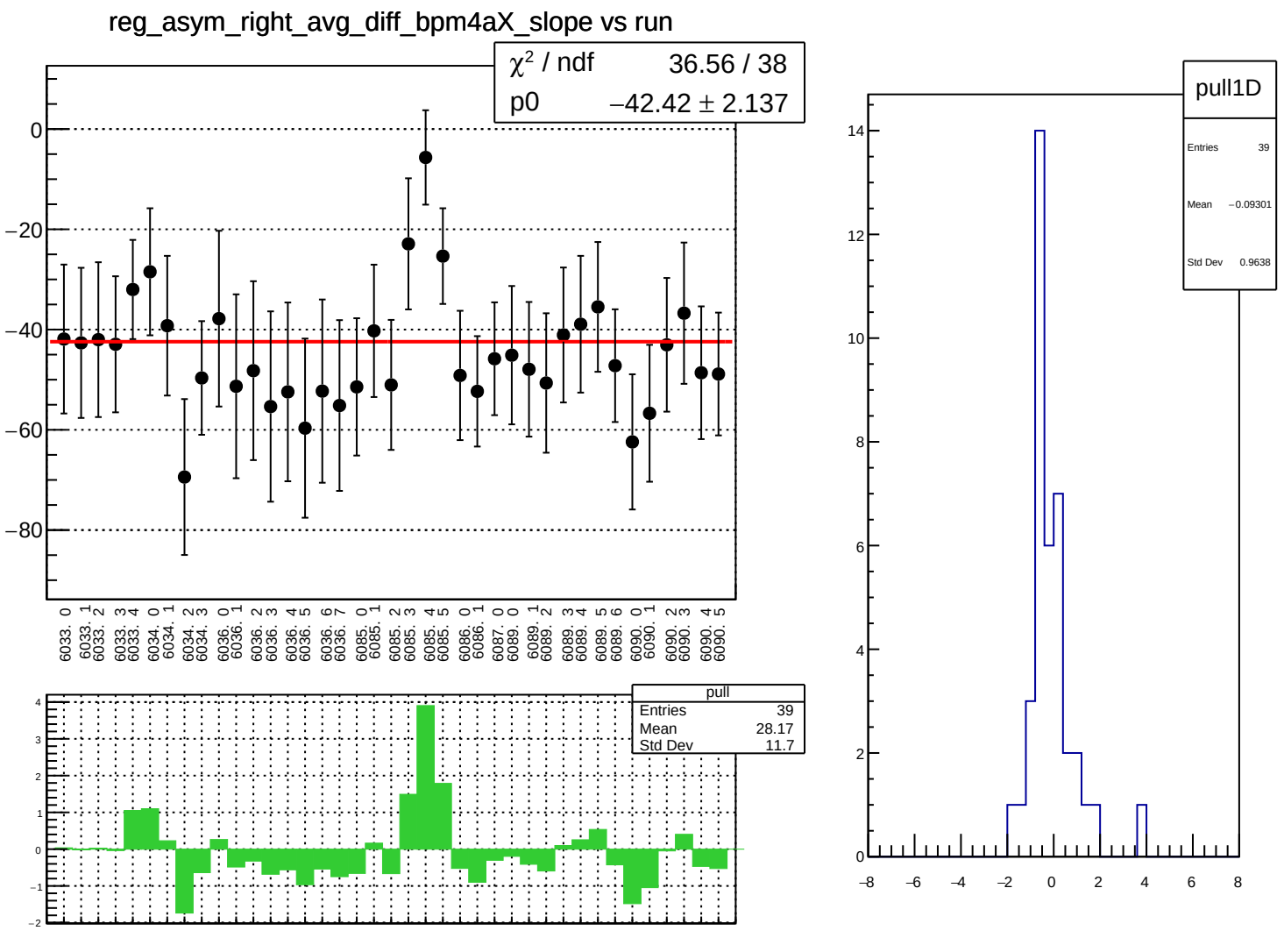

pull1D
Entries 39
Mean 0.02976
Std Dev 1.006

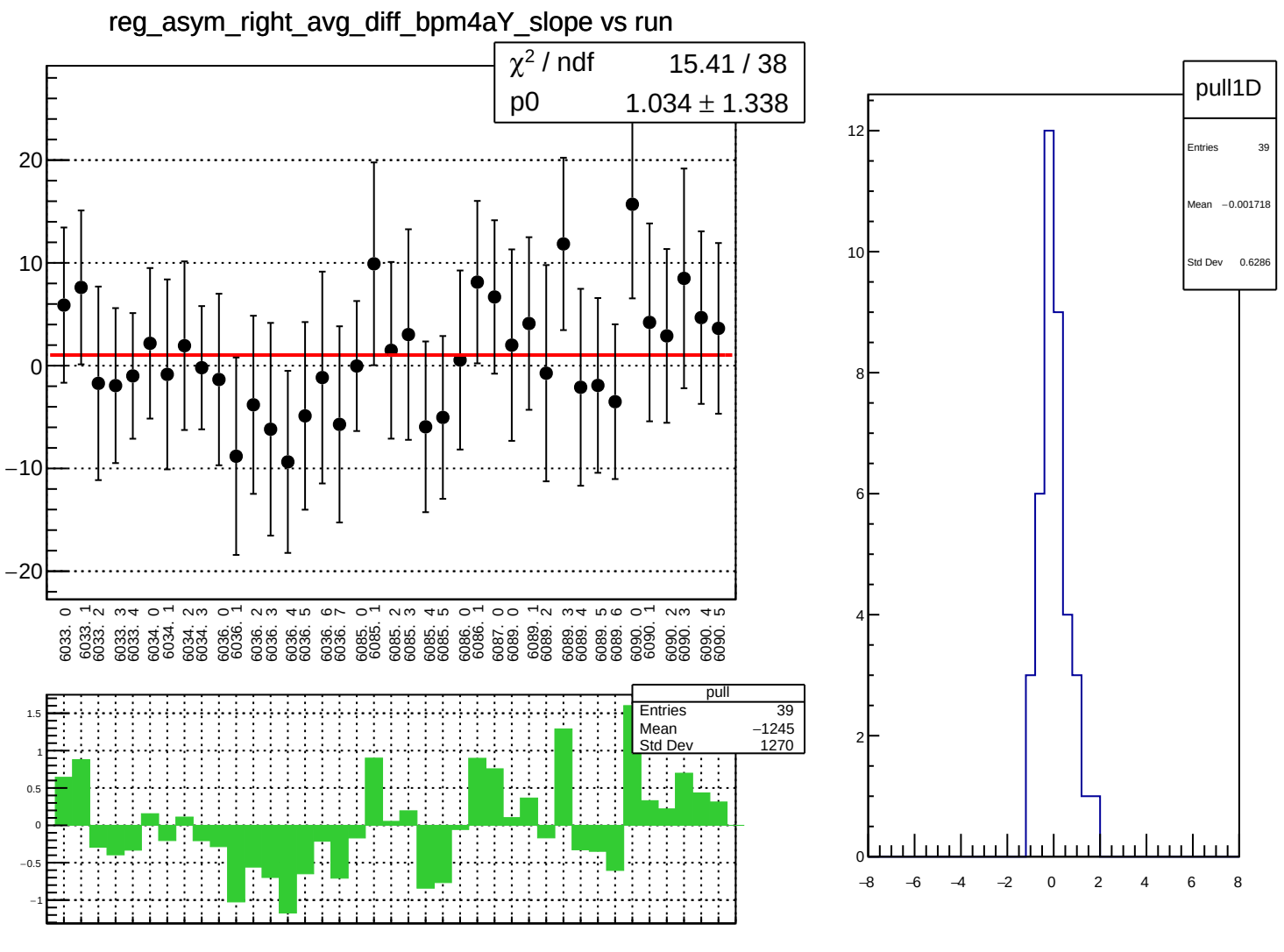

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.65 / 38
p0 4.492 ± 0.8912
pull
Entries 39
Mean 213
Std Dev 187.3

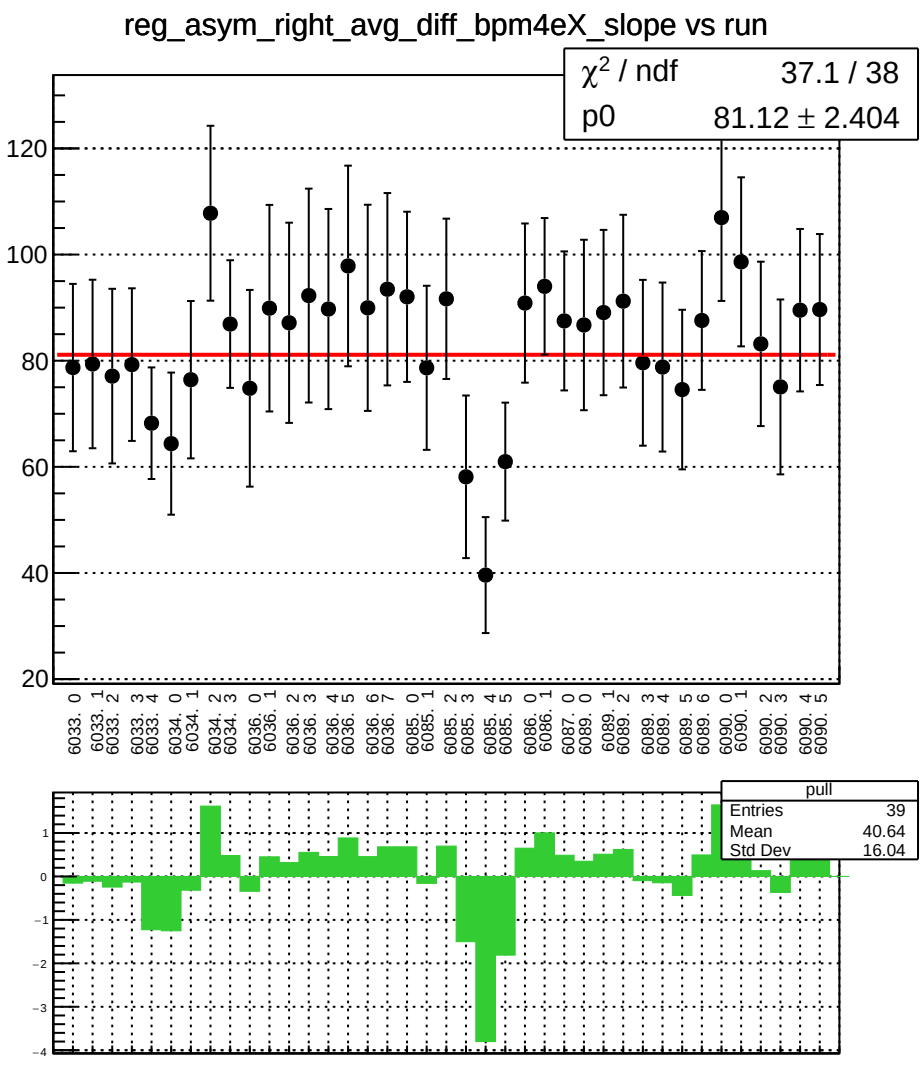

pull1D
Entries 39
Mean −0.02424
Std Dev 1.194

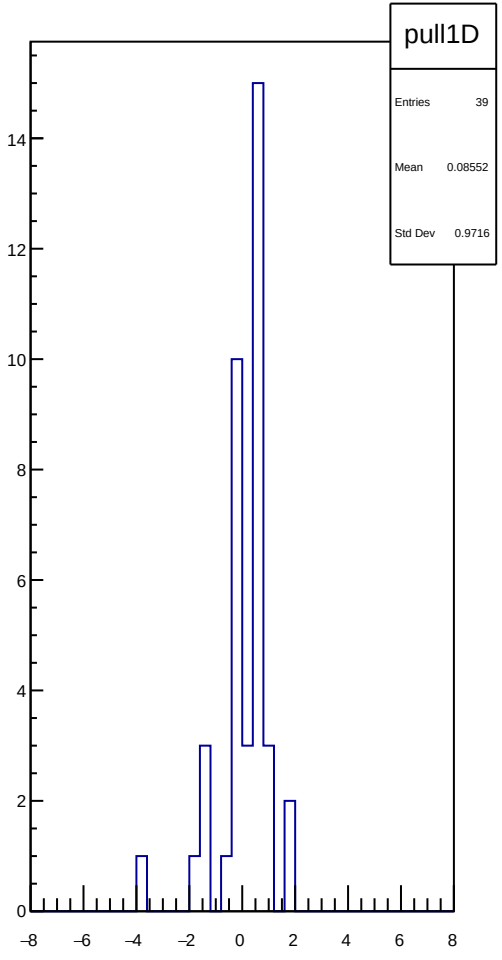

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 162.8 / 38
p0 −18.6 ± 0.069
pull
Entries 39
Mean 619.6
Std Dev 600.3

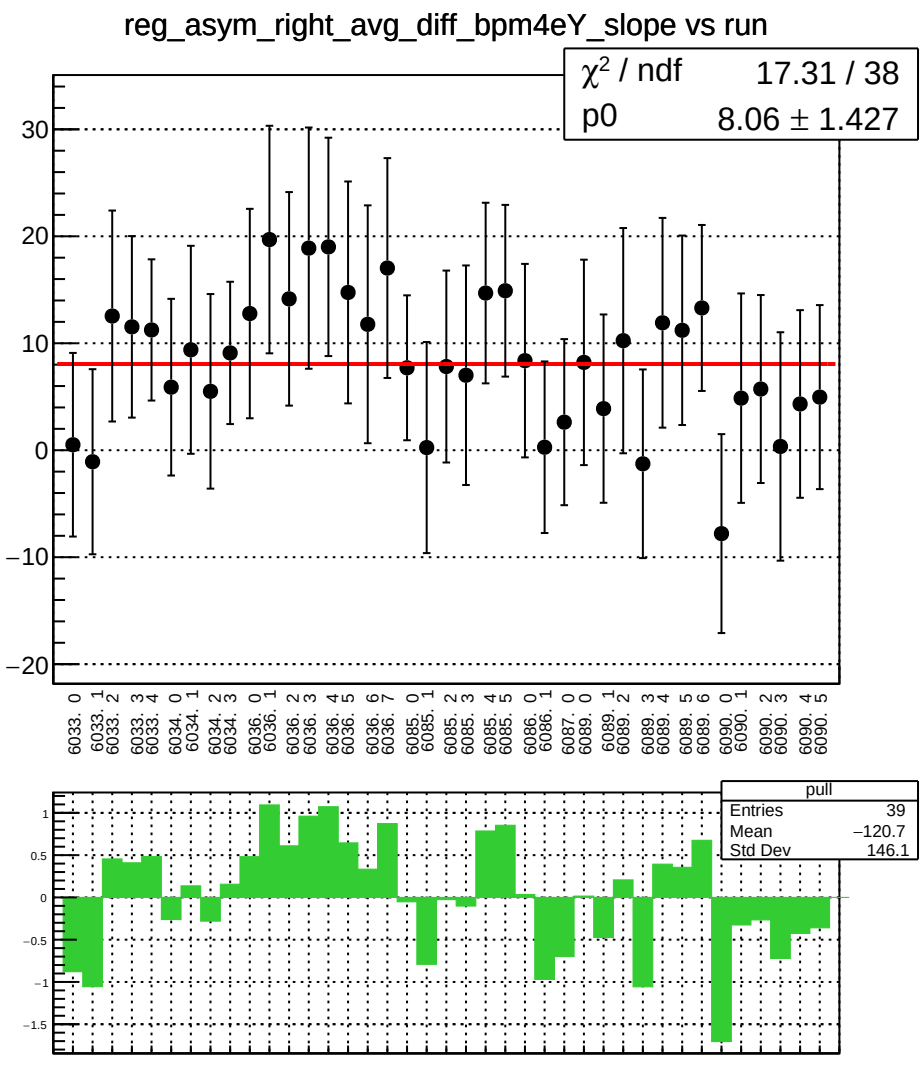

pull1D
Entries 39
Mean −0.02713
Std Dev 2.043

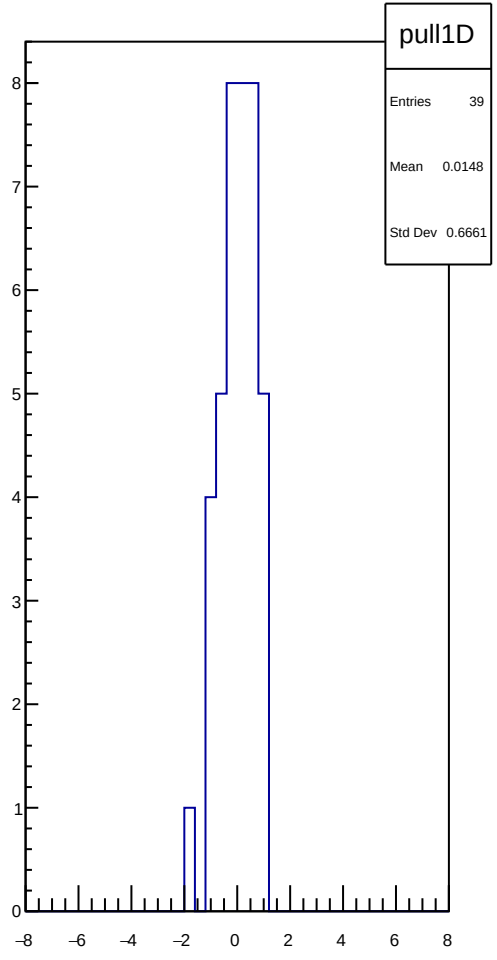

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.56 / 38
p0 −42.42 ± 2.137
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 28.17
Std Dev 11.7
4
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.09301
Std Dev 0.9638
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

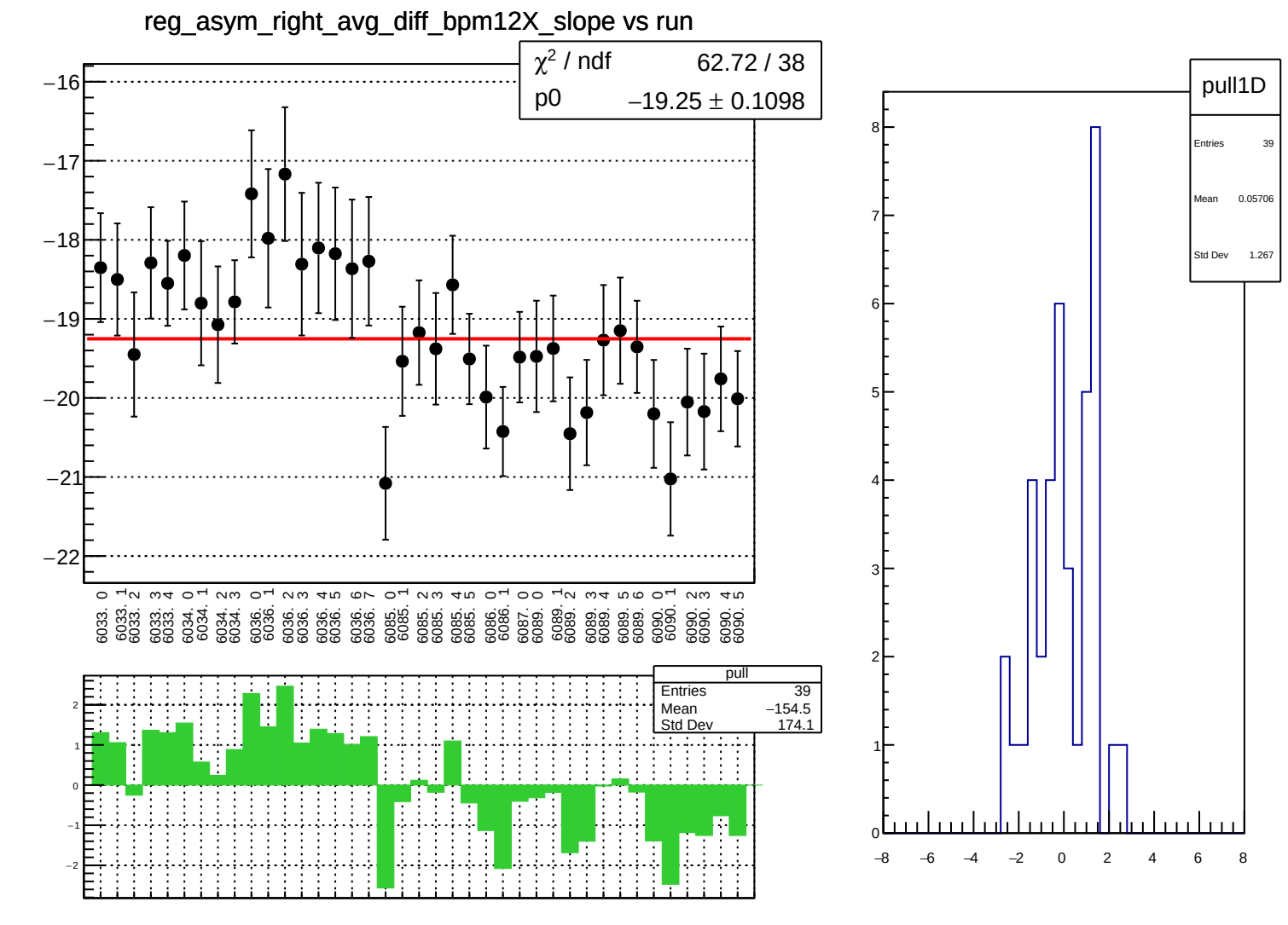

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.41 / 38
p0 1.034 ± 1.338
pull
Entries 39
Mean −1245
Std Dev 1270
pull1D
Entries 39
Mean −0.001718
Std Dev 0.6286

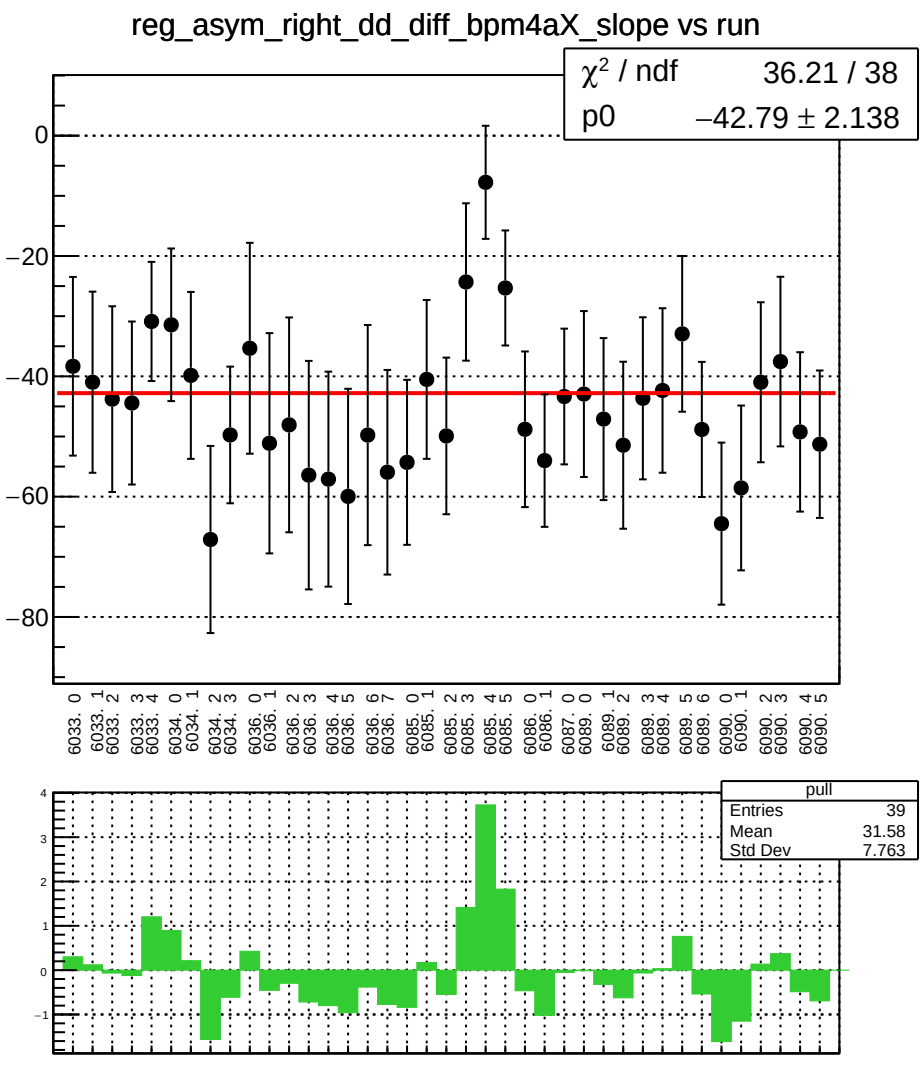

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.1 / 38
p0 81.12 ± 2.404
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 40.64
Std Dev 16.04
1
0
−1
−2
−3
−4

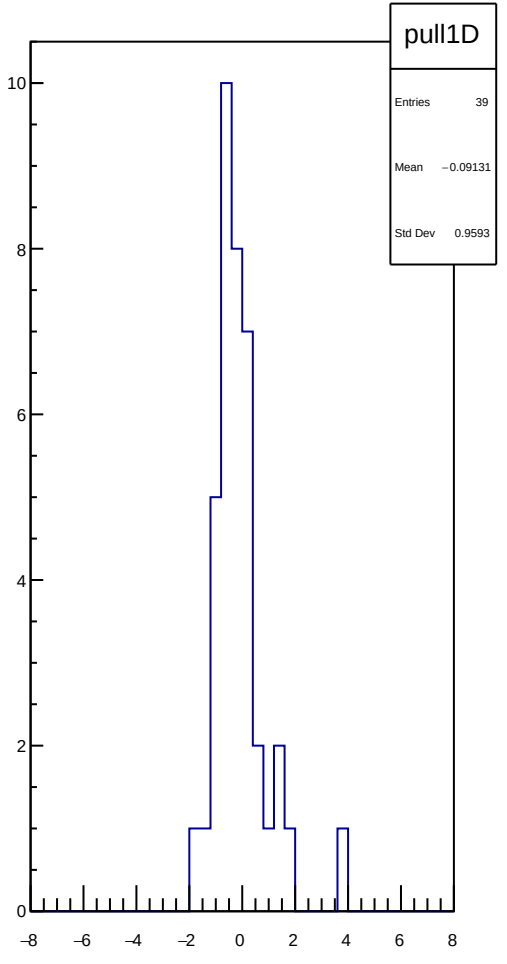

pull1D
Entries 39
Mean 0.08552
Std Dev 0.9716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

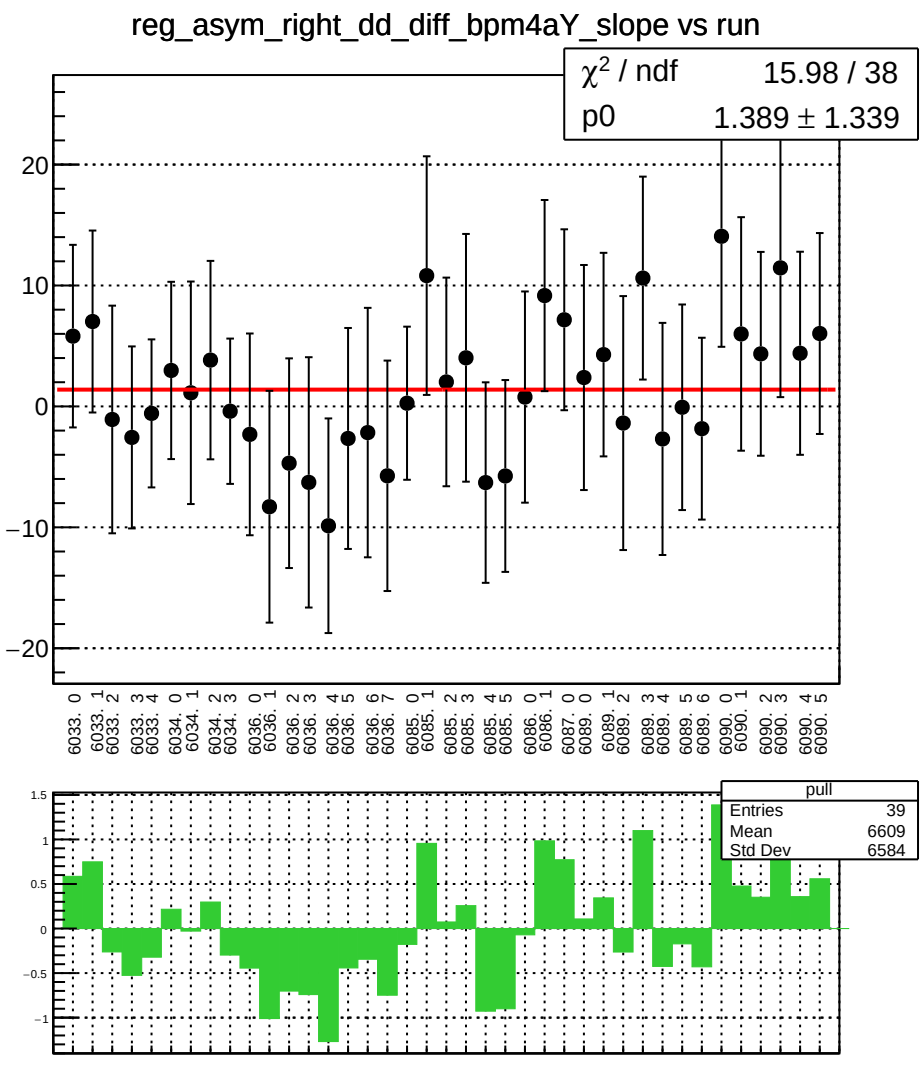

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.31 / 38
p0 8.06 ± 1.427
pull
Entries 39
Mean −120.7
Std Dev 146.1

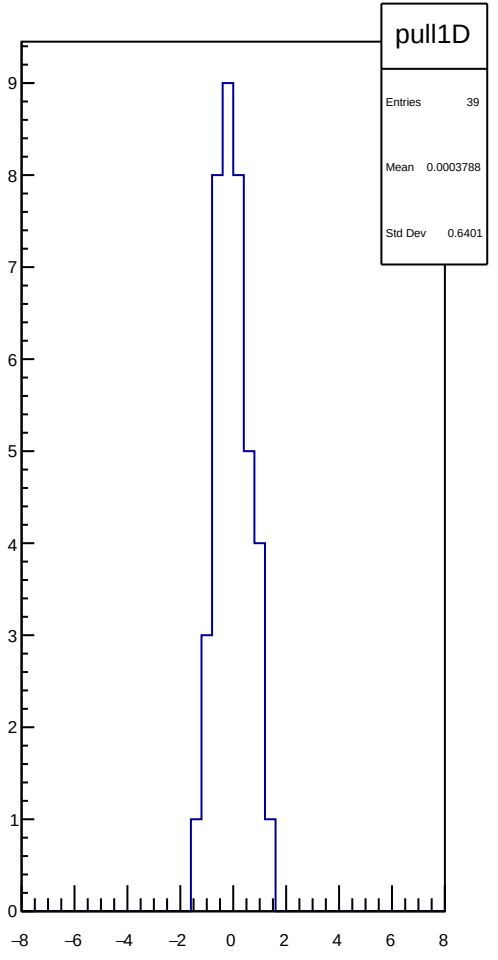

pull1D
Entries 39
Mean 0.0148
Std Dev 0.6661

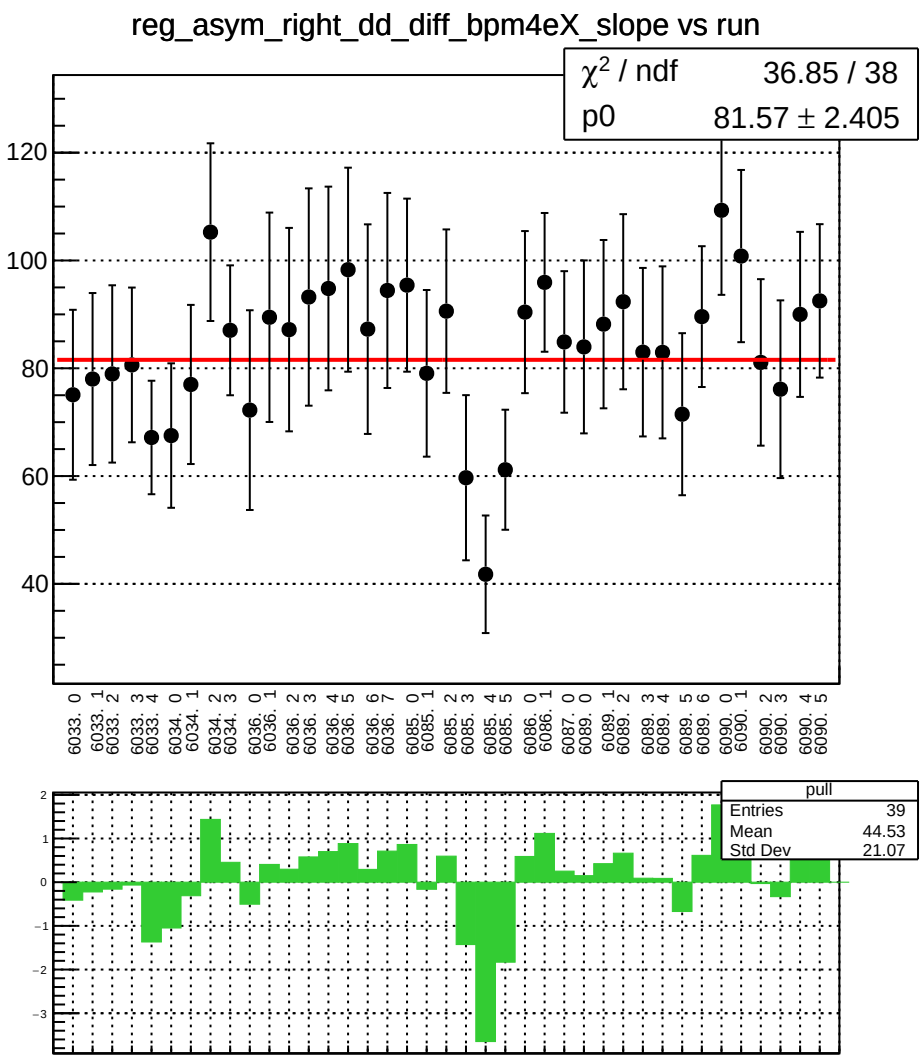

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 62.72 / 38
p0 −19.25 ± 0.1098
−16
−17
−18
−19
−20
−21
−22
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −154.5
Std Dev 174.1
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.05706
Std Dev 1.267
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

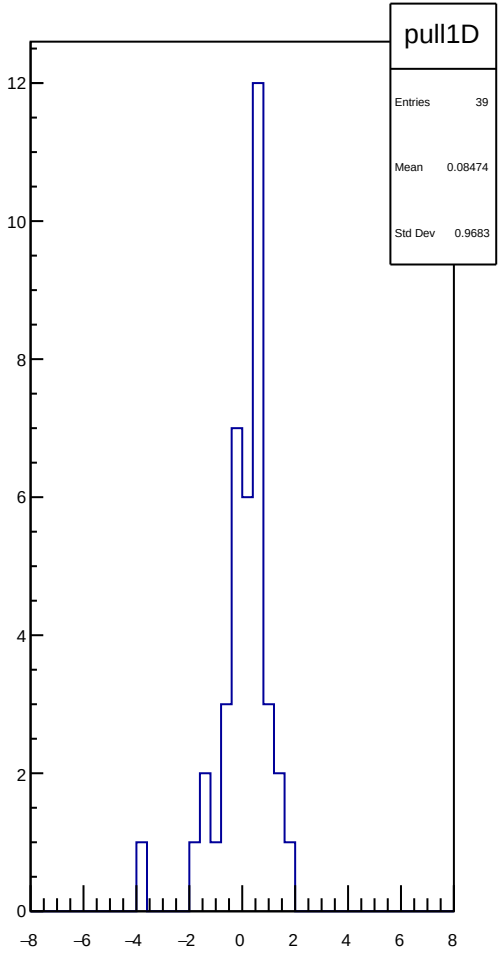

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.21 / 38
p0 −42.79 ± 2.138
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 31.58
Std Dev 7.763
4
3
2
1
0
−1

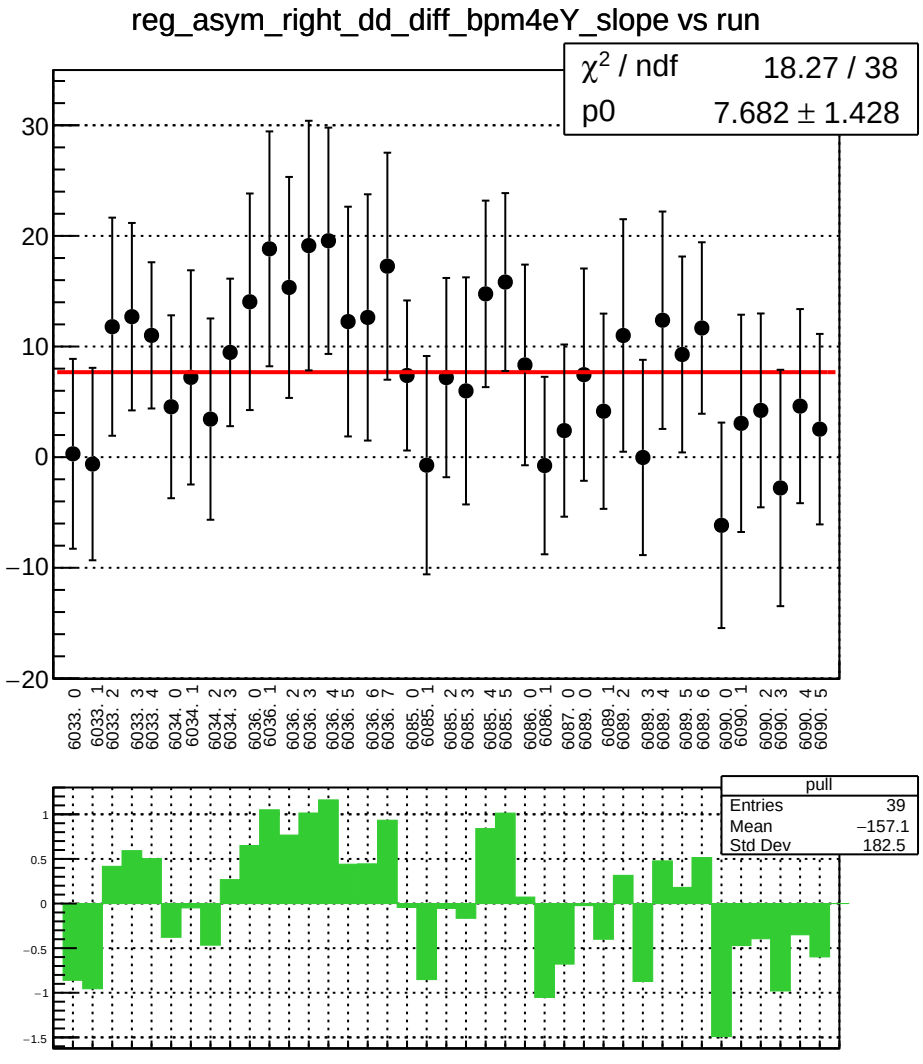

pull1D
Entries 39
Mean −0.09131
Std Dev 0.9593
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

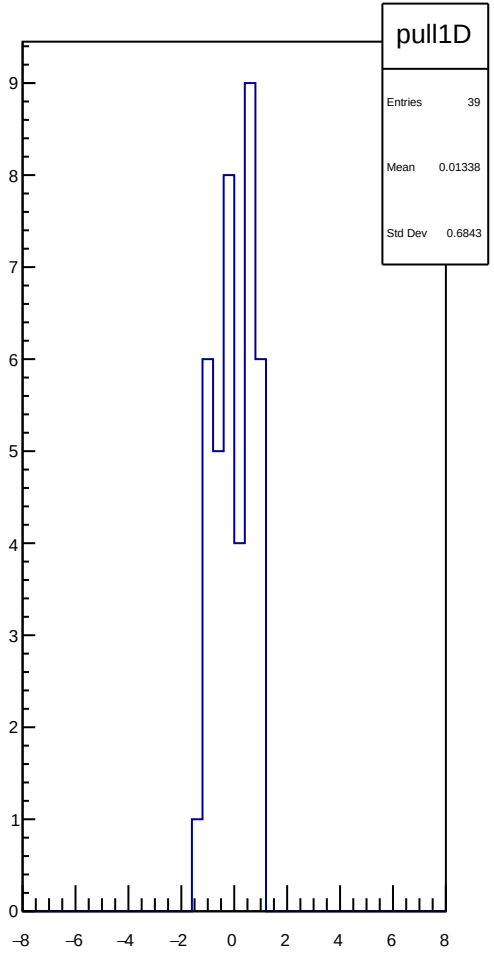

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.98 / 38
p0 1.389 ± 1.339
20
10
0
−10
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 6609
Std Dev 6584
1.5
1
0.5
0
−0.5
−1

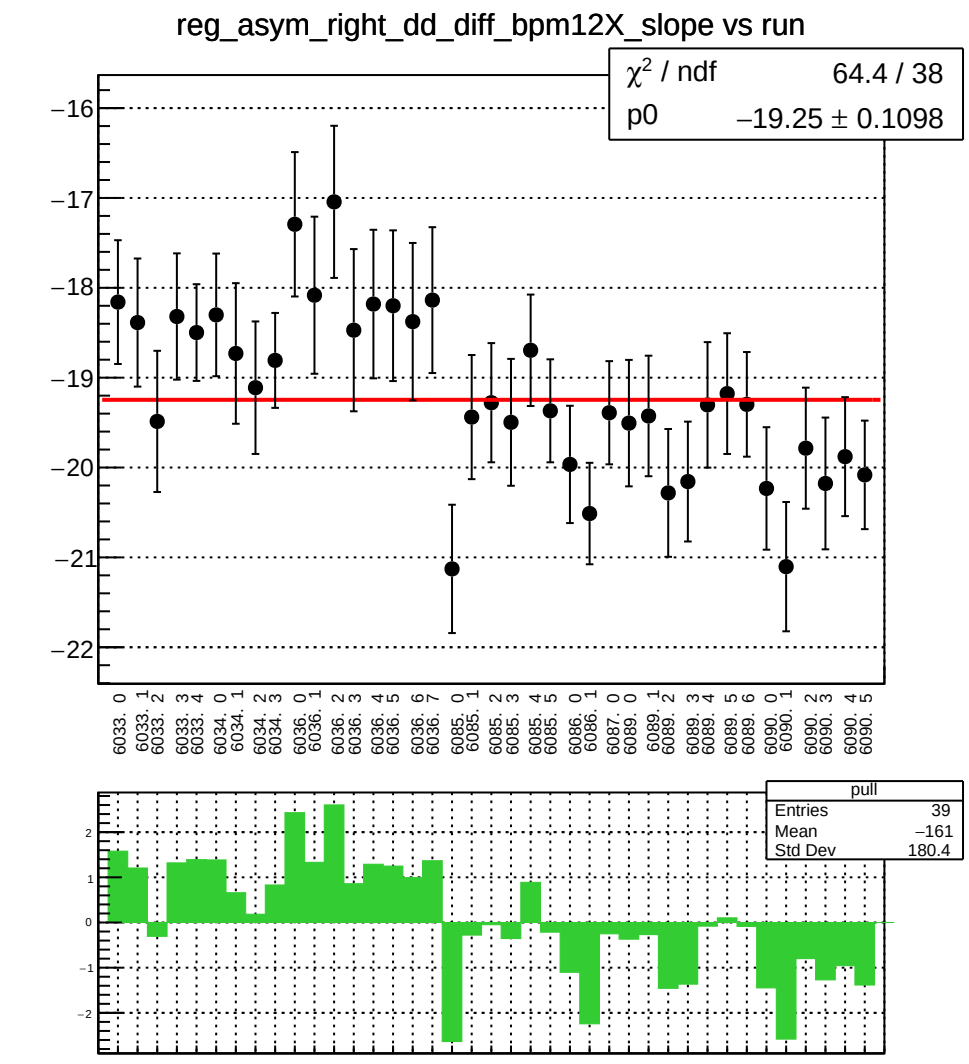

pull1D
Entries 39
Mean 0.0003788
Std Dev 0.6401
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

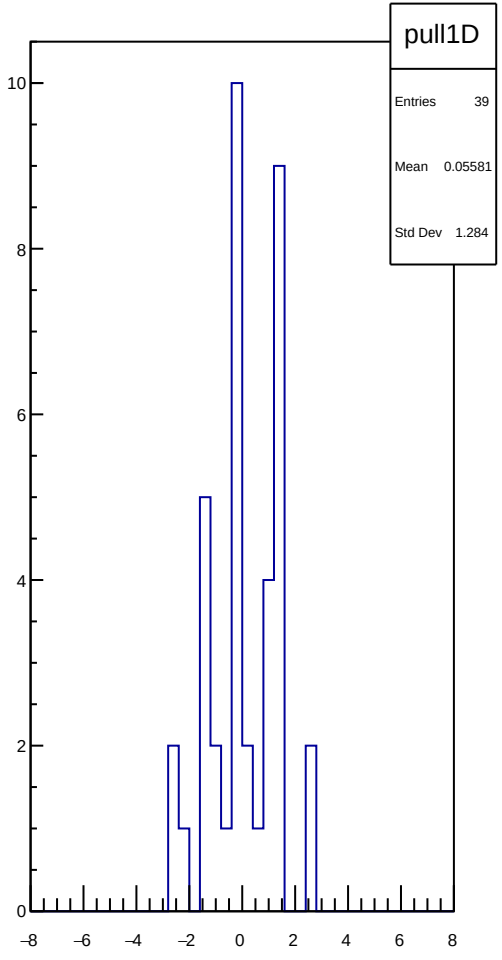

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.85 / 38
p0 81.57 ± 2.405
120
100
80
60
40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 44.53
Std Dev 21.07
2
1
0
−1
−2
−3

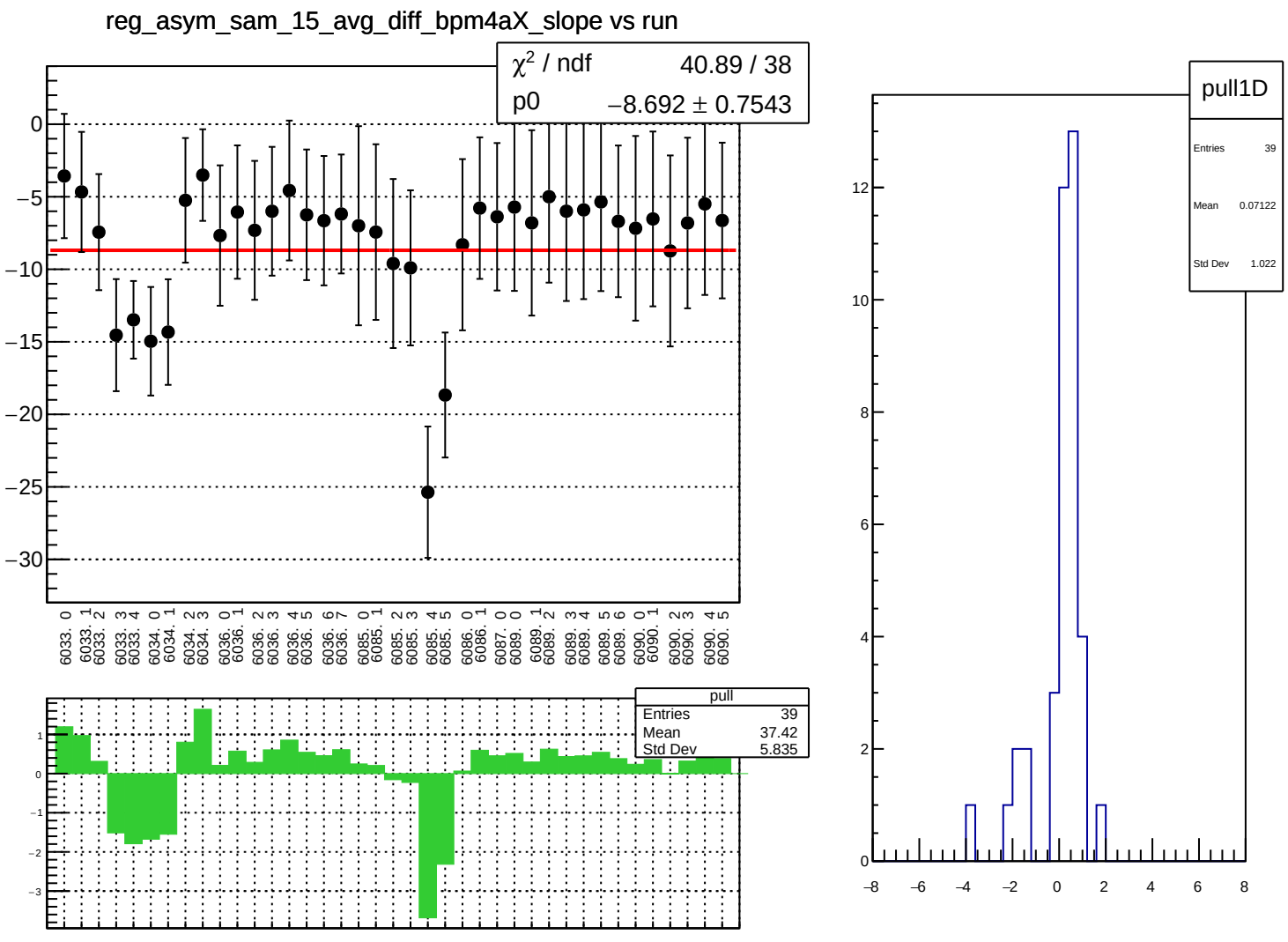

pull1D
Entries 39
Mean 0.08474
Std Dev 0.9683
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

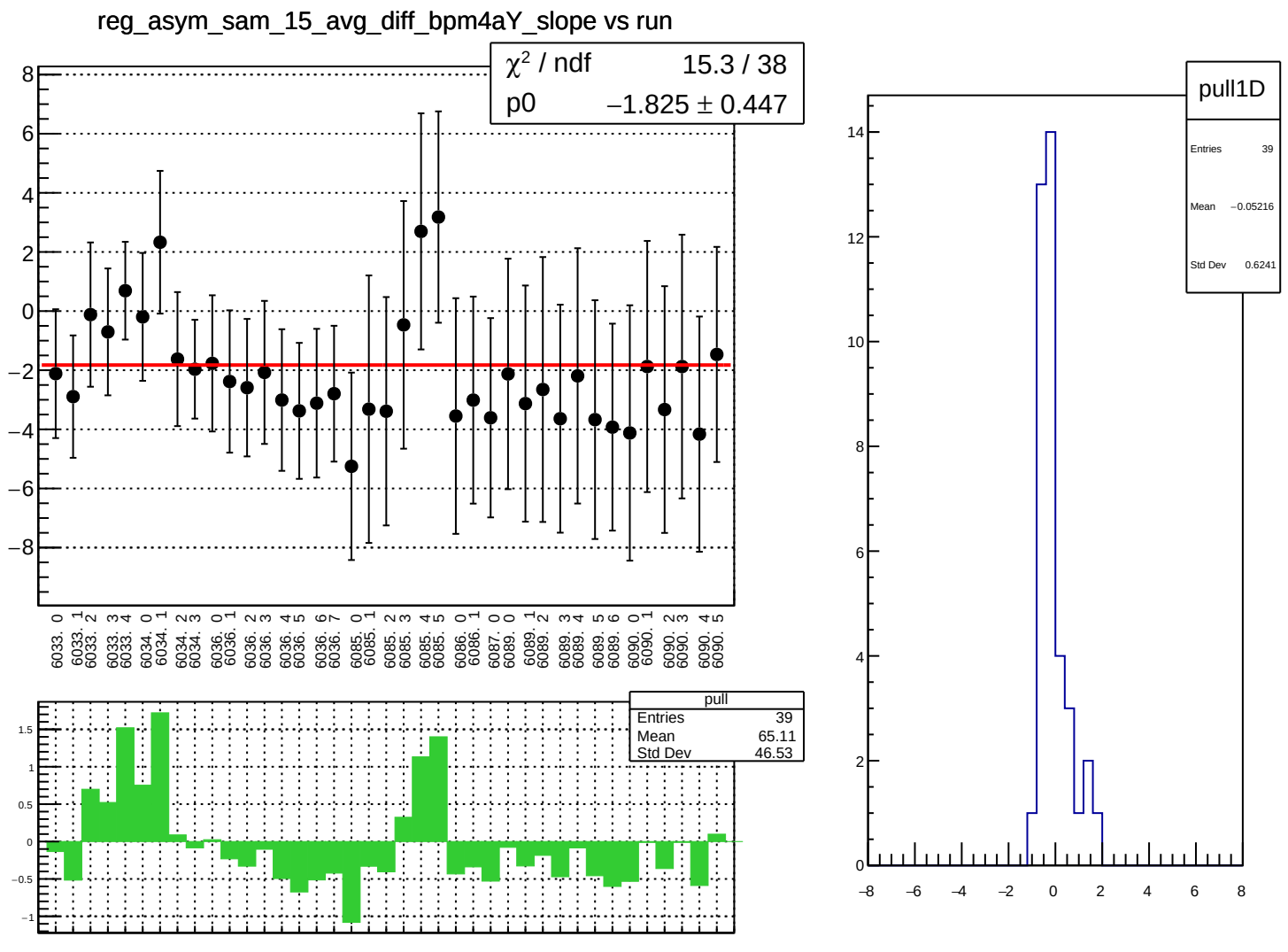

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.27 / 38
p0 7.682 ± 1.428
pull
Entries 39
Mean −157.1
Std Dev 182.5

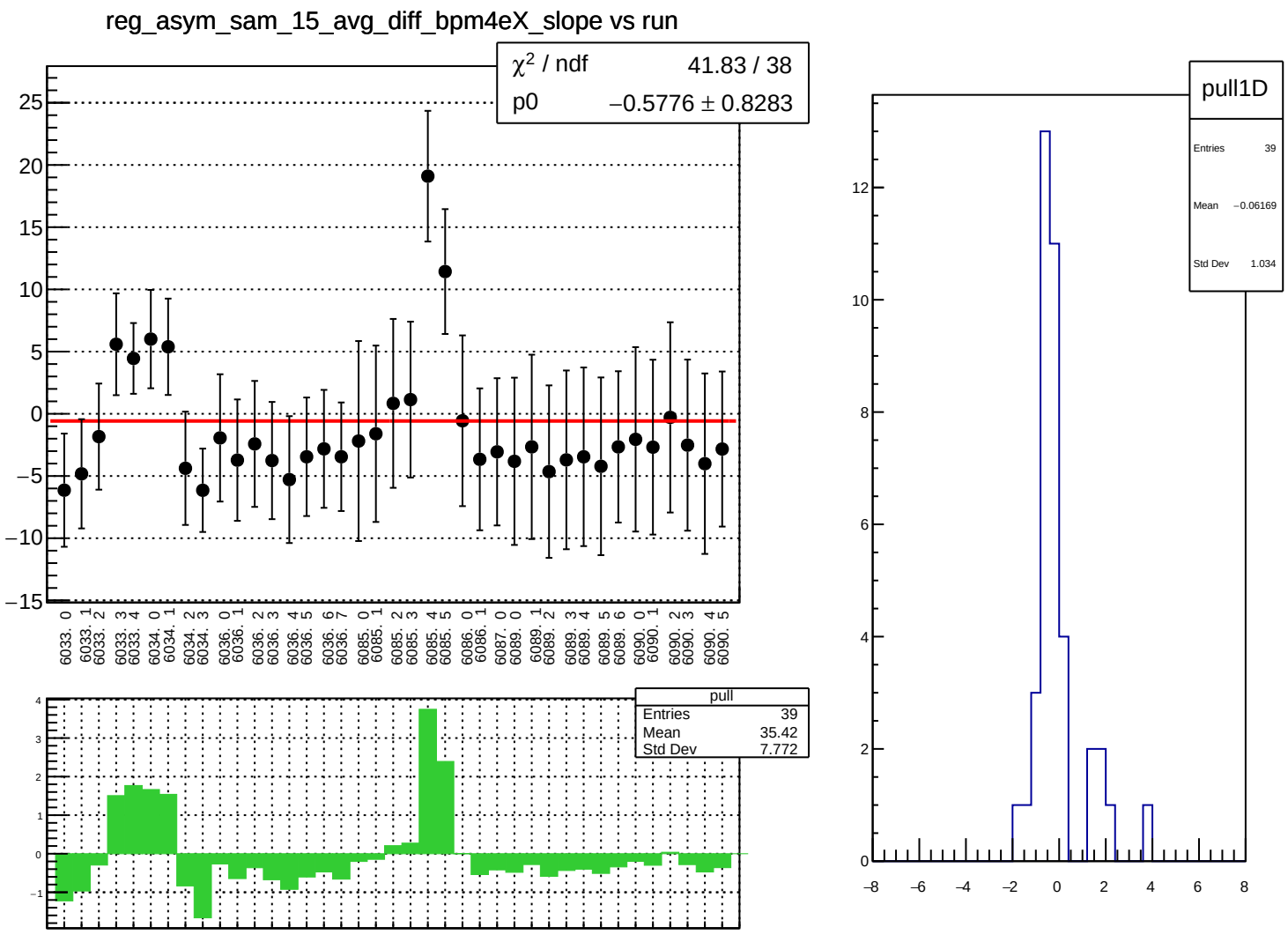

pull1D
Entries 39
Mean 0.01338
Std Dev 0.6843

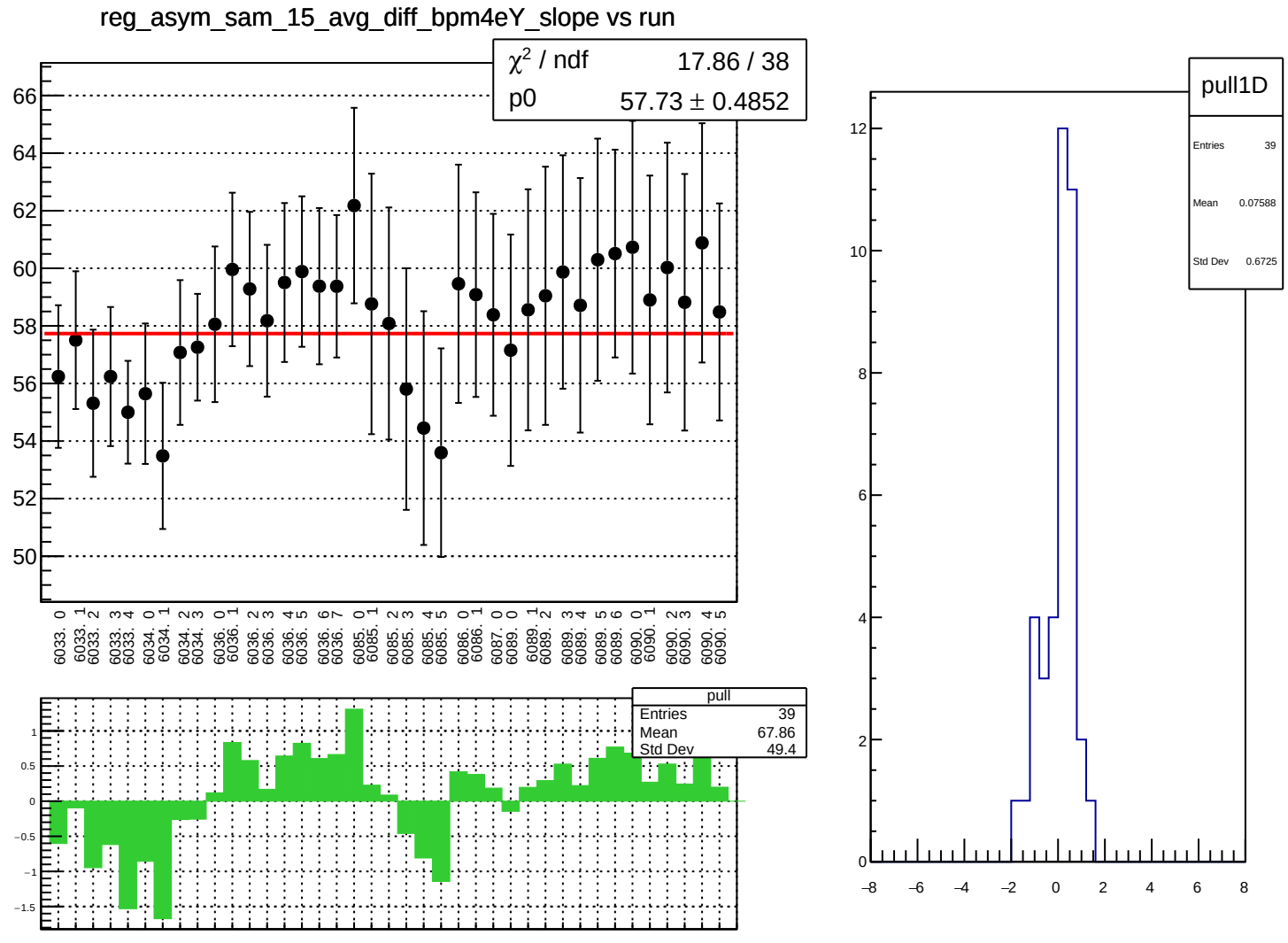

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 64.4 / 38
p0 −19.25 ± 0.1098
pull
Entries 39
Mean −161
Std Dev 180.4

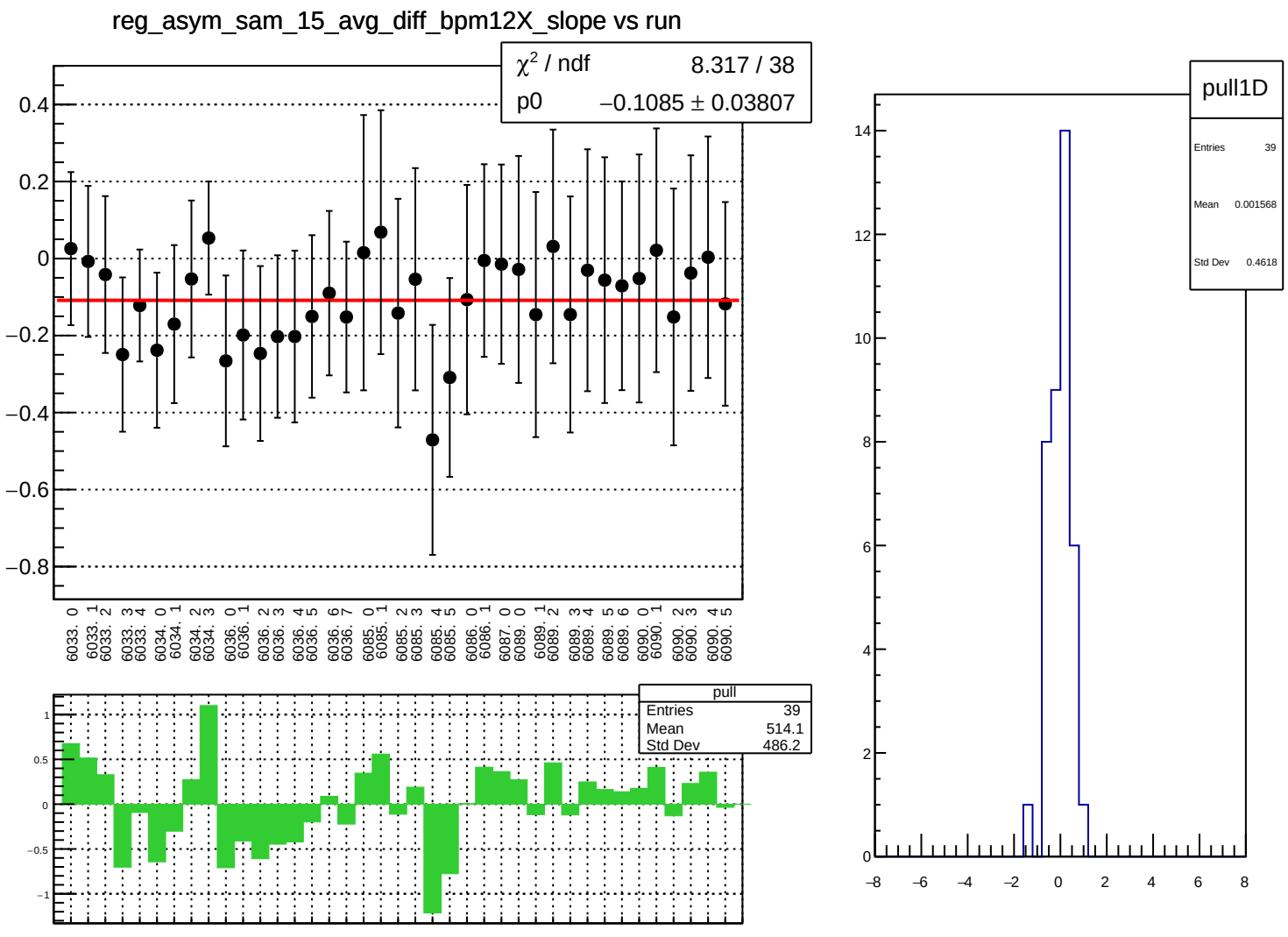

pull1D
Entries 39
Mean 0.05581
Std Dev 1.284

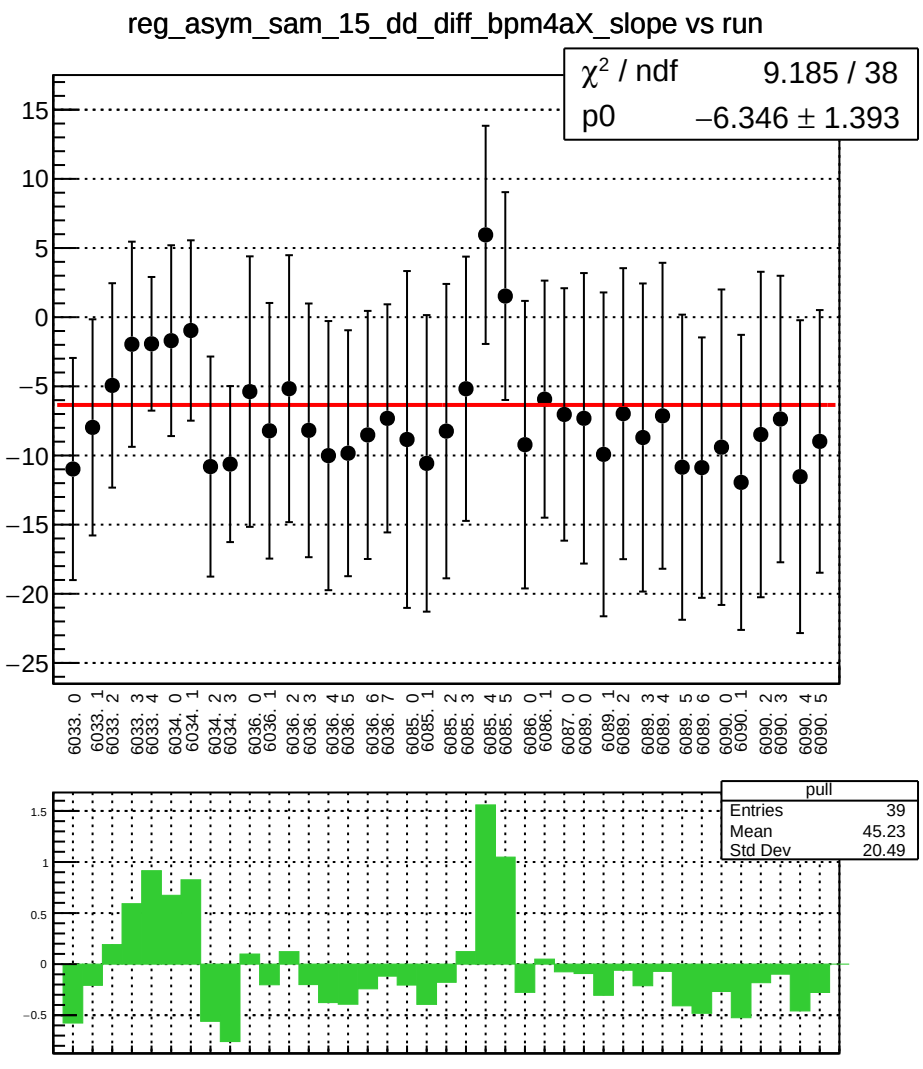

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.89 / 38
p0 −8.692 ± 0.7543
0
−5
−10
−15
−20
−25
−30
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 37.42
Std Dev 5.835
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.07122
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

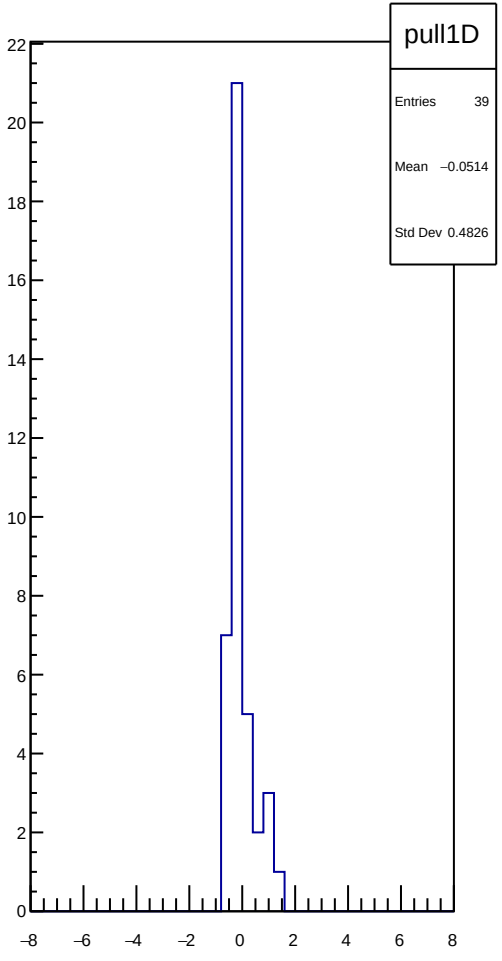

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.3 / 38
p0 −1.825 ± 0.447
pull
Entries 39
Mean 65.11
Std Dev 46.53
pull1D
Entries 39
Mean −0.05216
Std Dev 0.6241

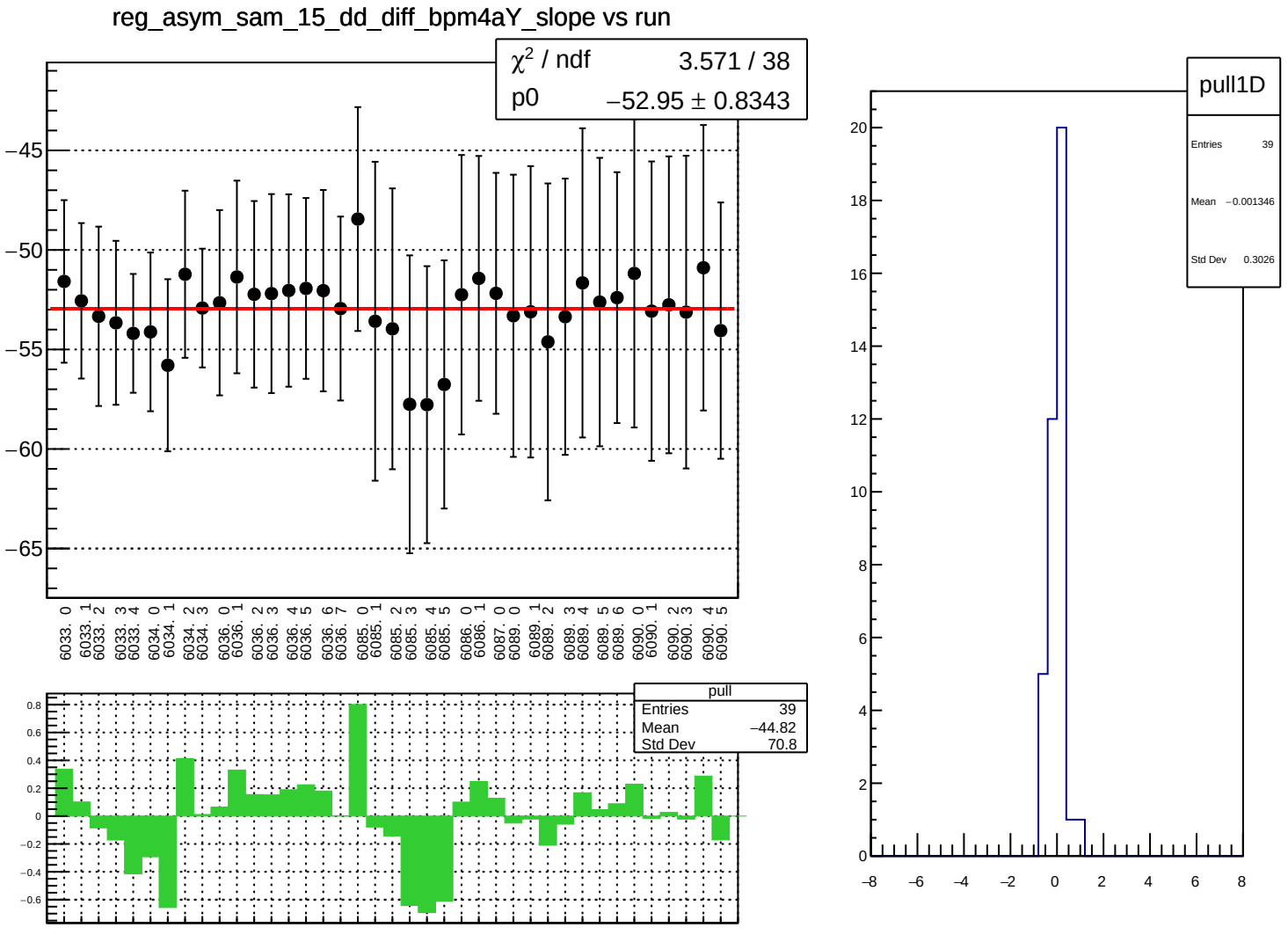

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.83 / 38
p0 −0.5776 ± 0.8283
pull
Entries 39
Mean 35.42
Std Dev 7.772
pull1D
Entries 39
Mean −0.06169
Std Dev 1.034

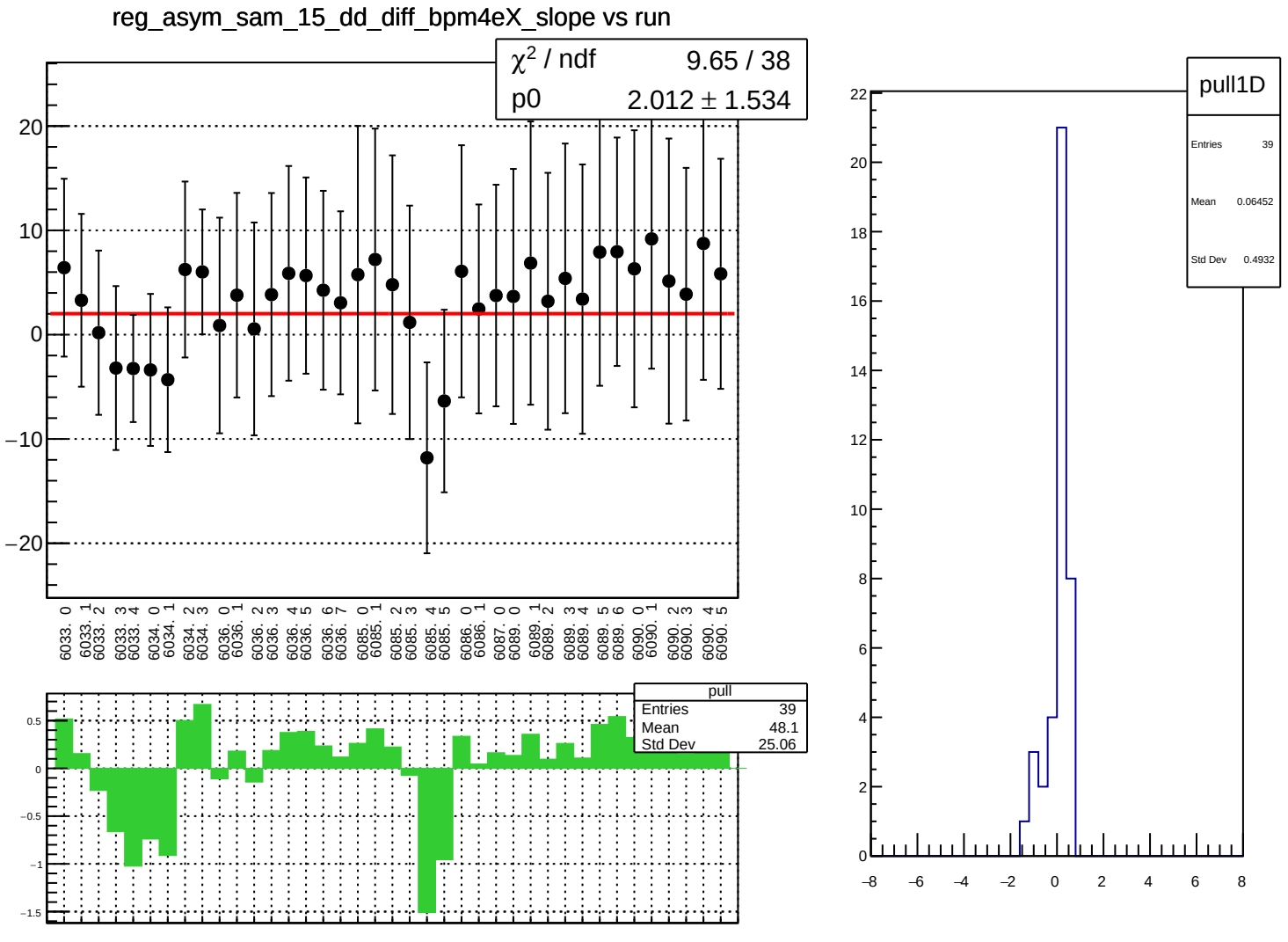

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.86 / 38
p0 57.73 ± 0.4852
pull
Entries 39
Mean 67.86
Std Dev 49.4
pull1D
Entries 39
Mean 0.07588
Std Dev 0.6725

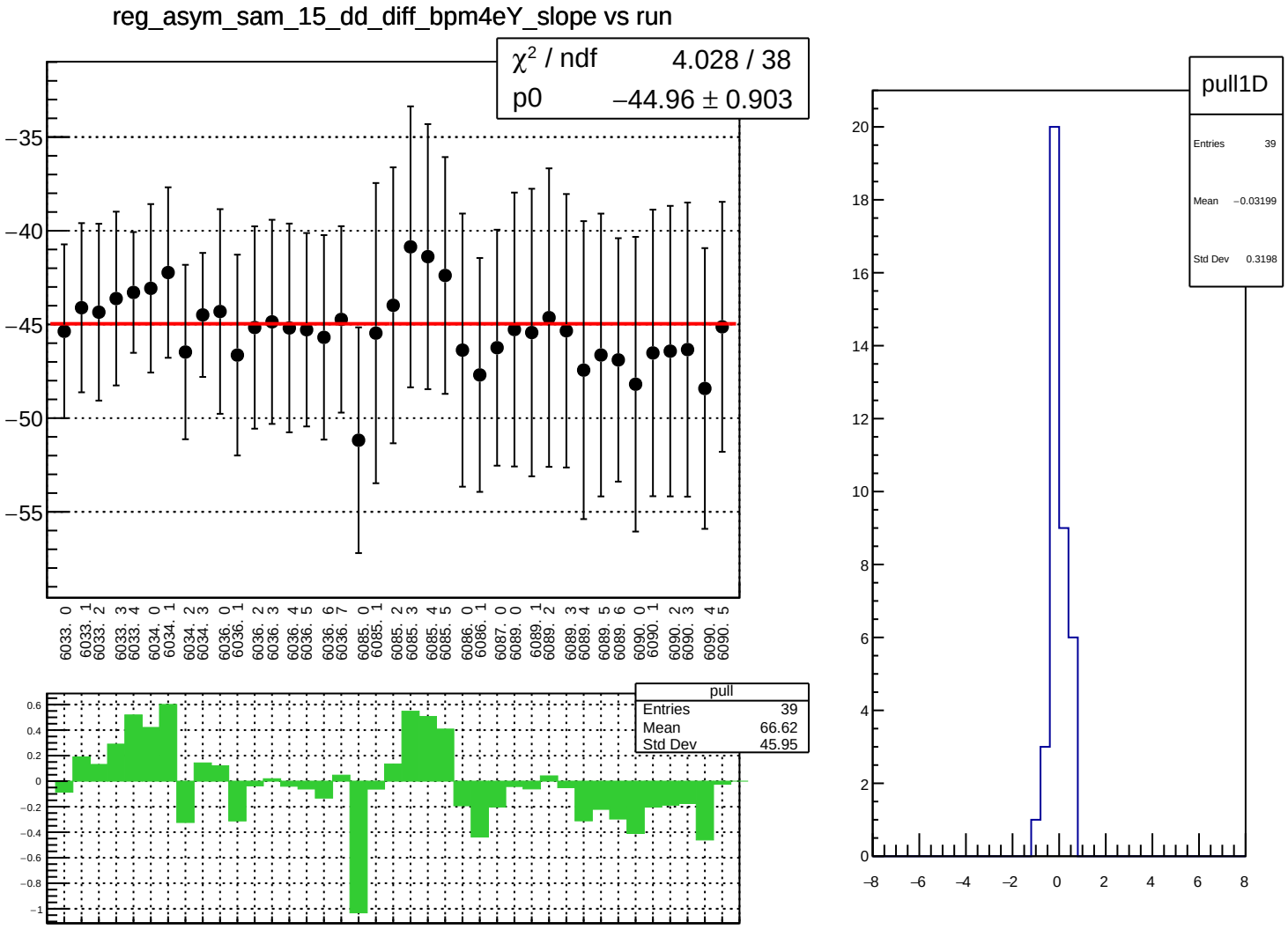

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 8.317 / 38
p0 −0.1085 ± 0.03807
pull
Entries 39
Mean 514.1
Std Dev 486.2
pull1D
Entries 39
Mean 0.001568
Std Dev 0.4618

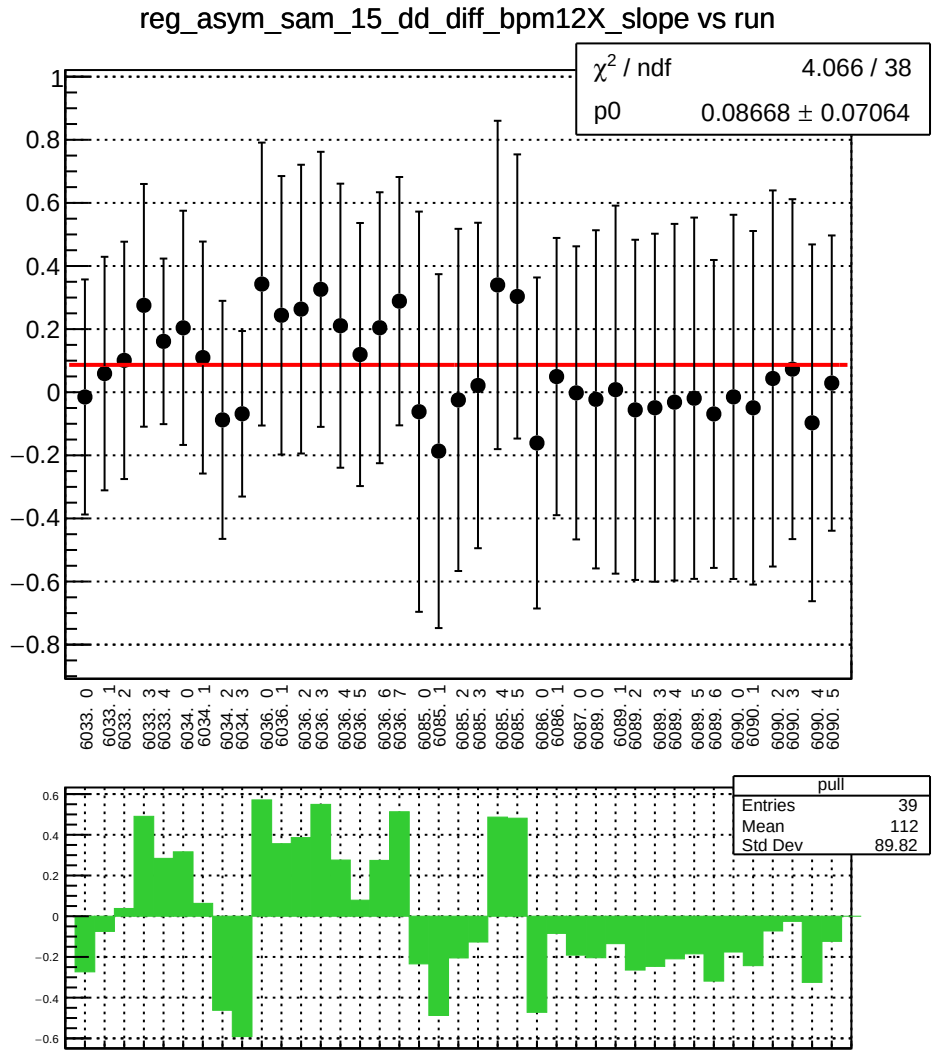

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.185 / 38
p0 −6.346 ± 1.393
pull
Entries 39
Mean 45.23
Std Dev 20.49

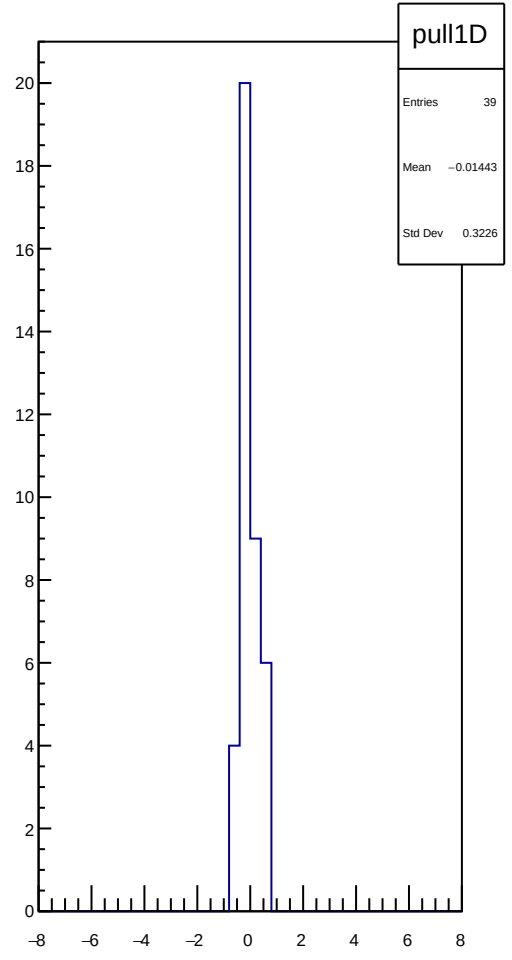

pull1D
Entries 39
Mean −0.0514
Std Dev 0.4826

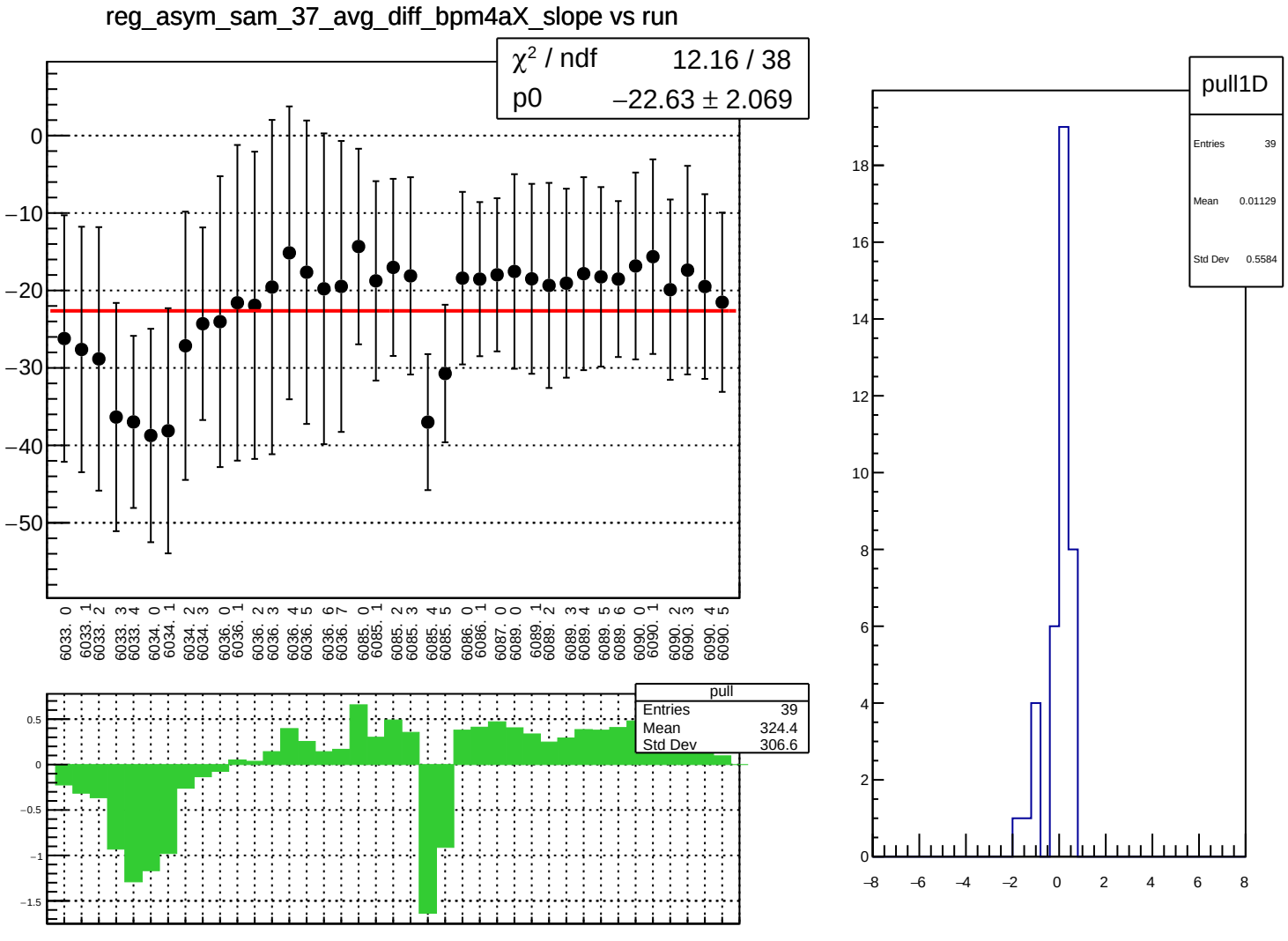

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.571 / 38
p0 −52.95 ± 0.8343
−45
−50
−55
−60
−65
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −44.82
Std Dev 70.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.001346
Std Dev 0.3026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

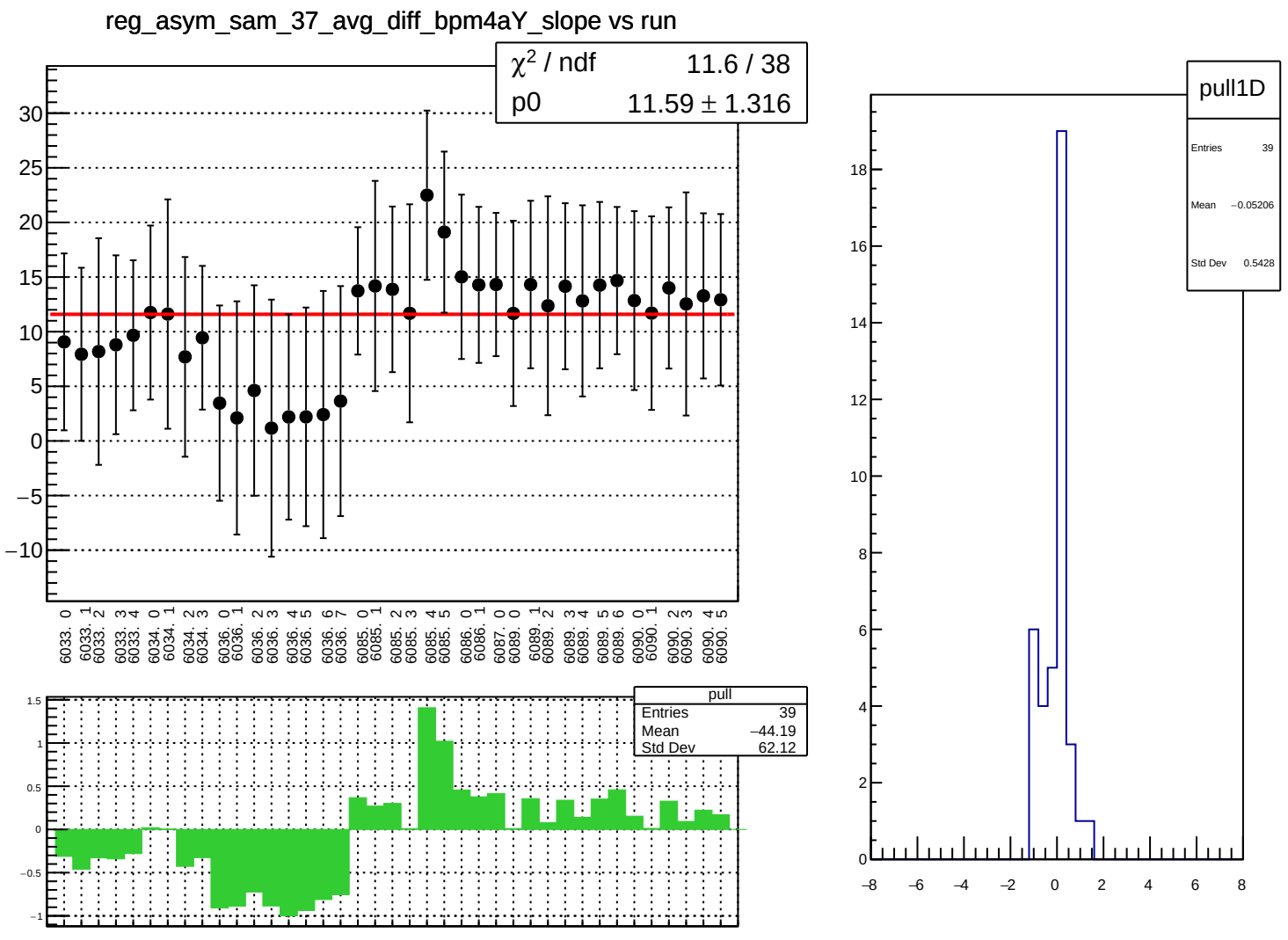

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.65 / 38
p0 2.012 ± 1.534
20
10
0
−10
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 48.1
Std Dev 25.06
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.06452
Std Dev 0.4932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

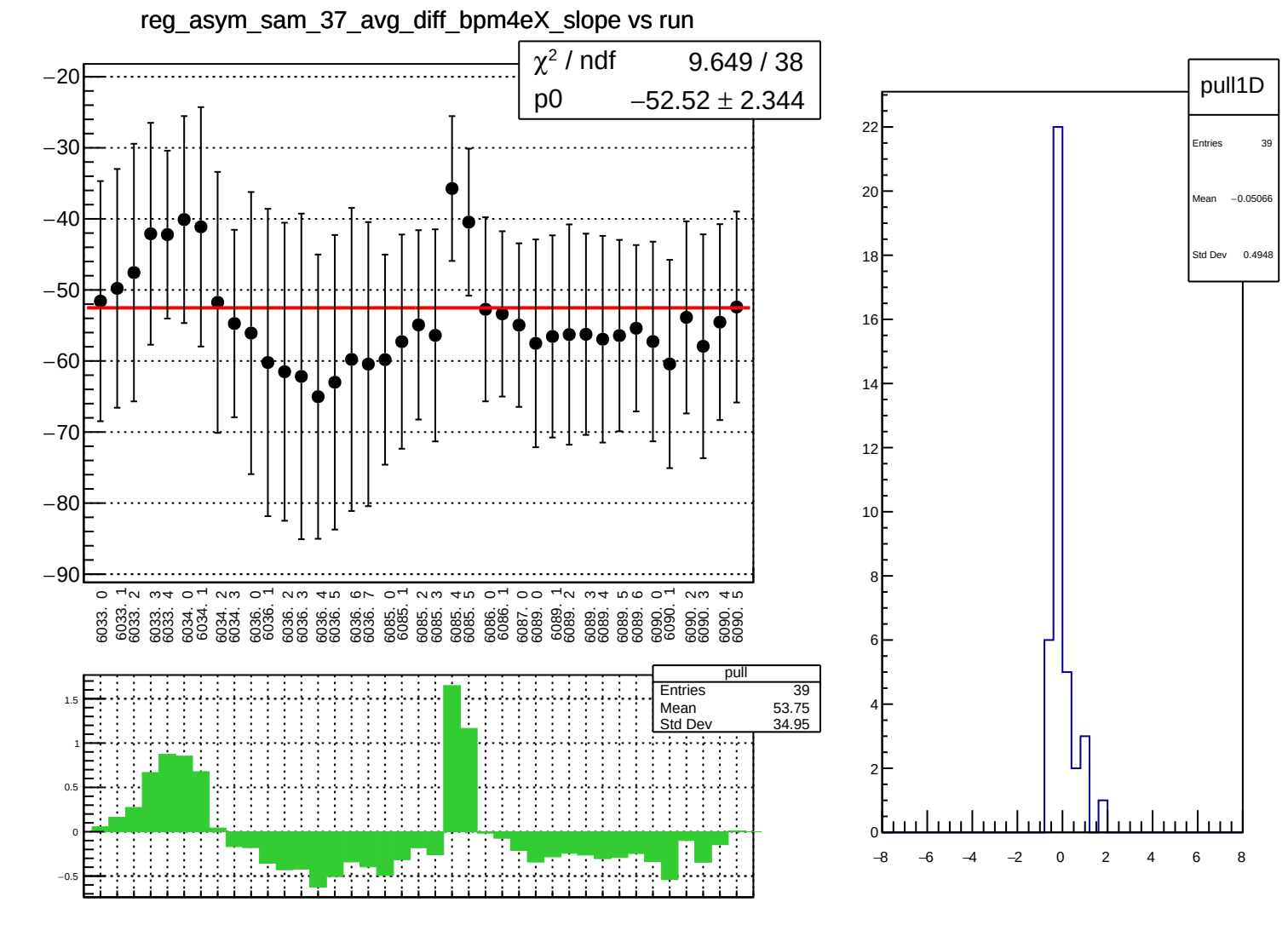

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.028 / 38
p0 −44.96 ± 0.903
−35
−40
−45
−50
−55
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 66.62
Std Dev 45.95
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 39
Mean −0.03199
Std Dev 0.3198
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

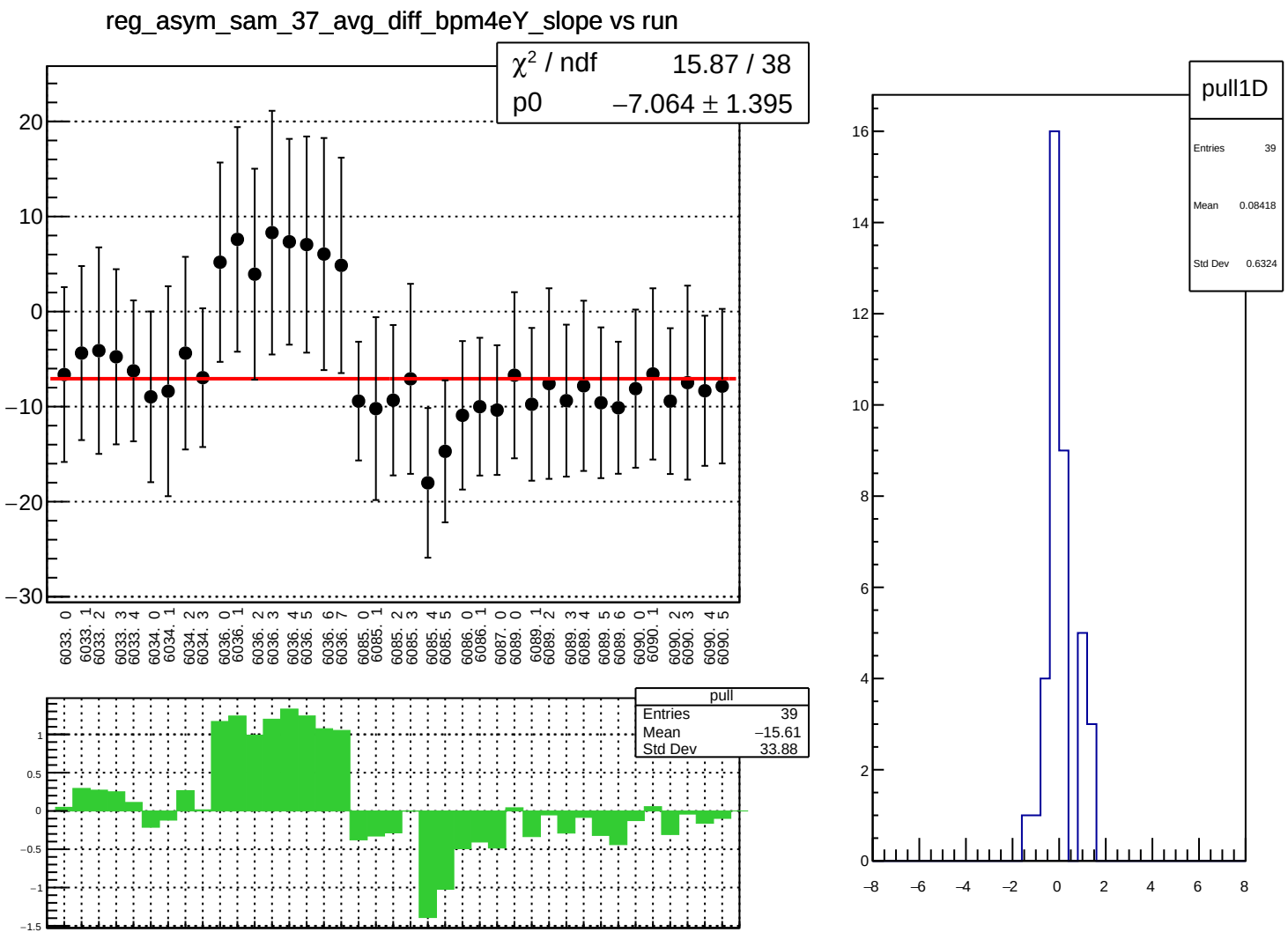

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.066 / 38
p0 0.08668 ± 0.07064
pull
Entries 39
Mean 112
Std Dev 89.82

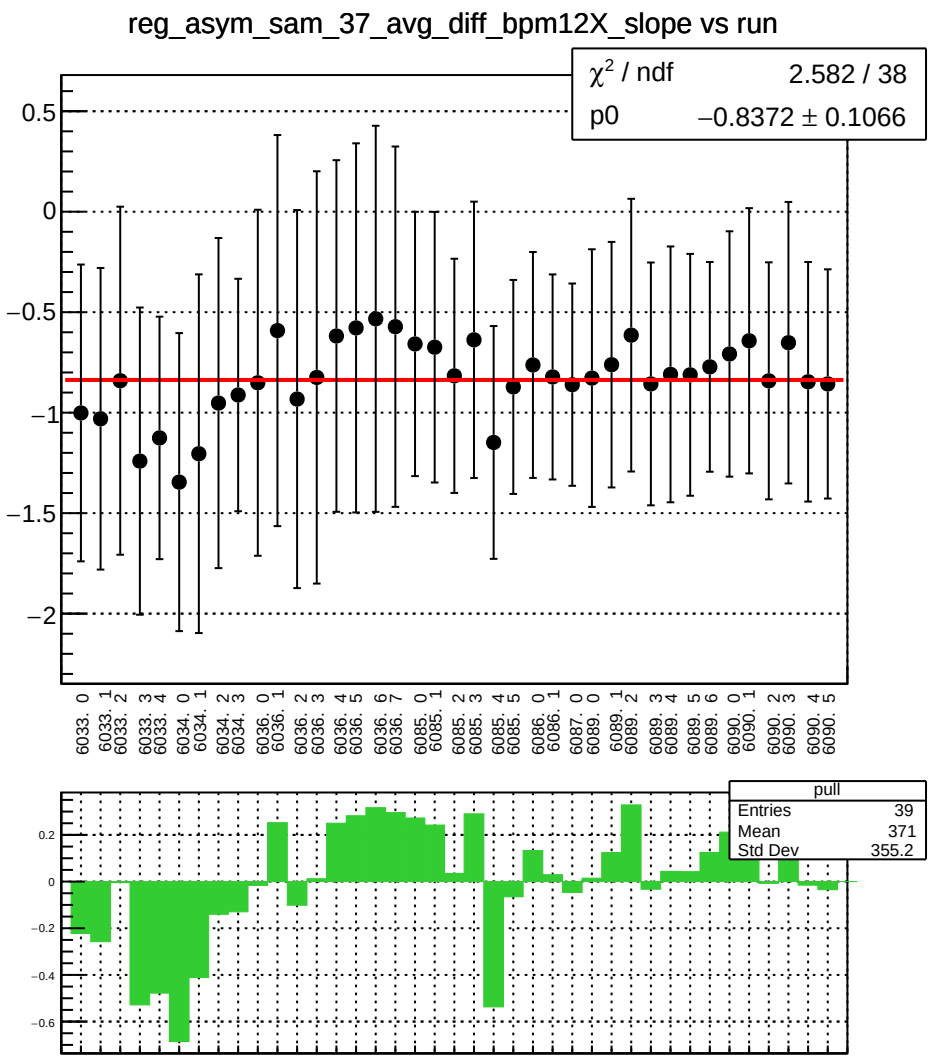

pull1D
Entries 39
Mean −0.01443
Std Dev 0.3226

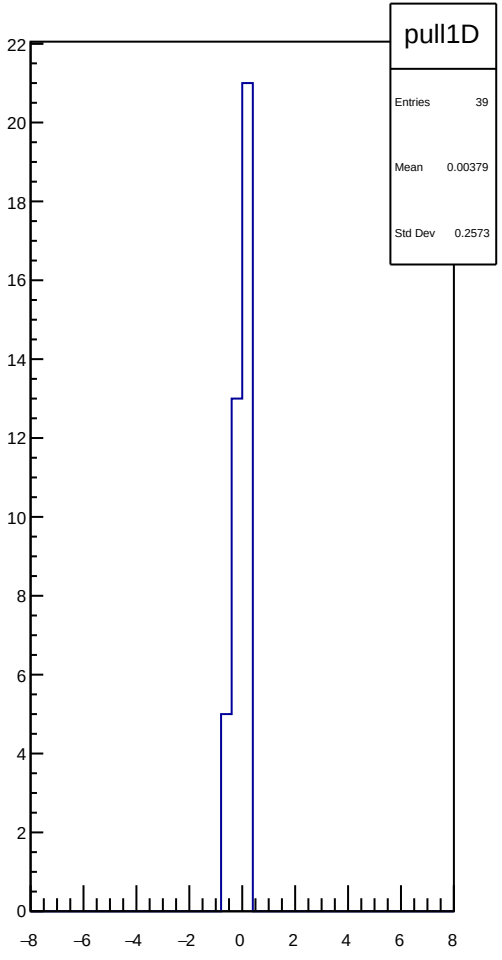

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.16 / 38
p0 −22.63 ± 2.069
pull
Entries 39
Mean 324.4
Std Dev 306.6
pull1D
Entries 39
Mean 0.01129
Std Dev 0.5584

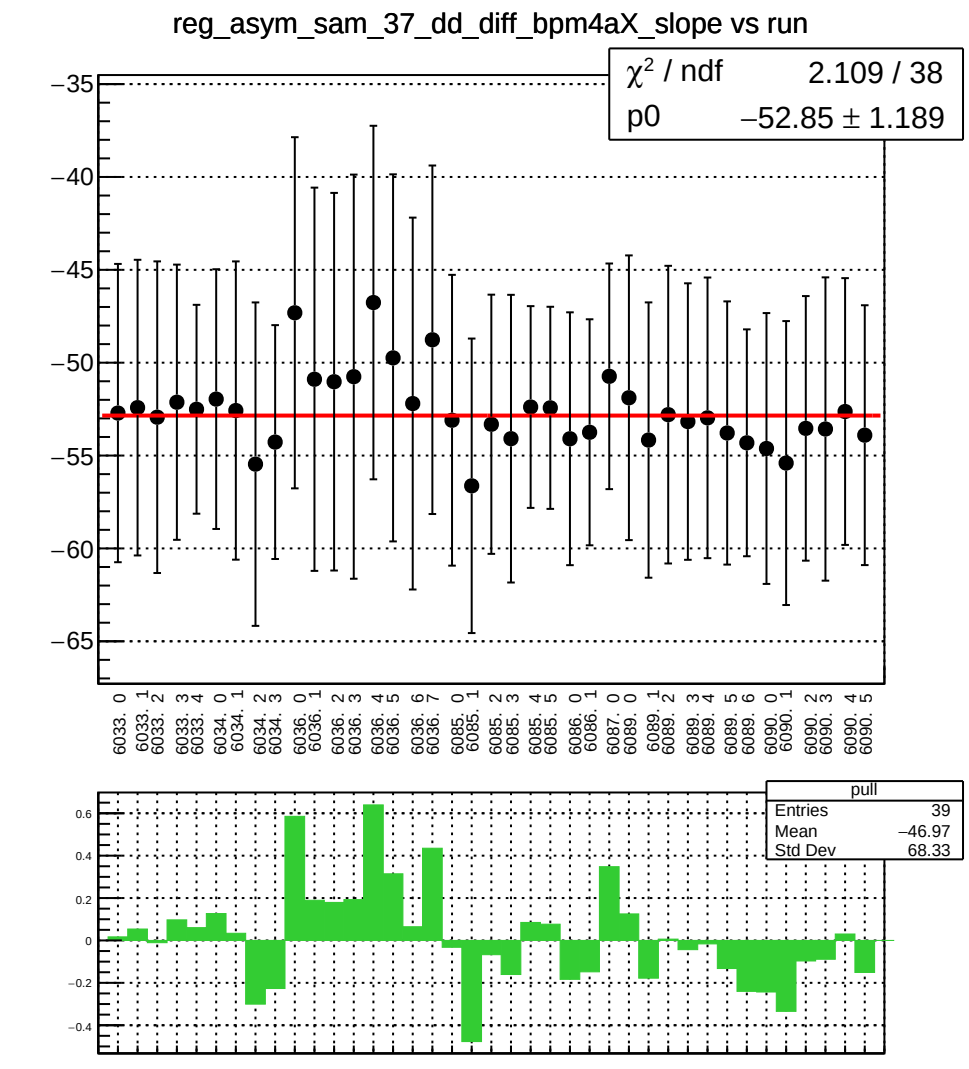

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.6 / 38
p0 11.59 ± 1.316
pull
Entries 39
Mean −44.19
Std Dev 62.12
pull1D
Entries 39
Mean −0.05206
Std Dev 0.5428

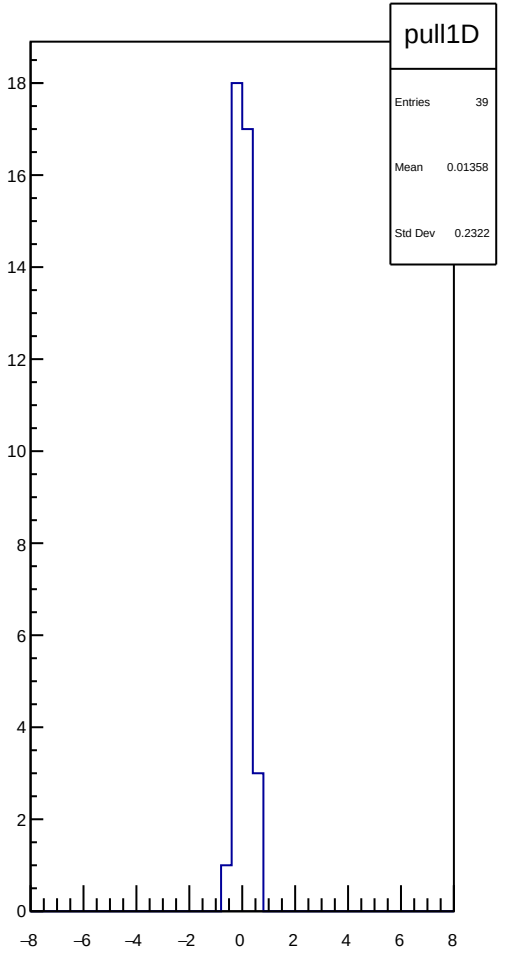

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.649 / 38
p0 −52.52 ± 2.344
pull
Entries 39
Mean 53.75
Std Dev 34.95
pull1D
Entries 39
Mean −0.05066
Std Dev 0.4948

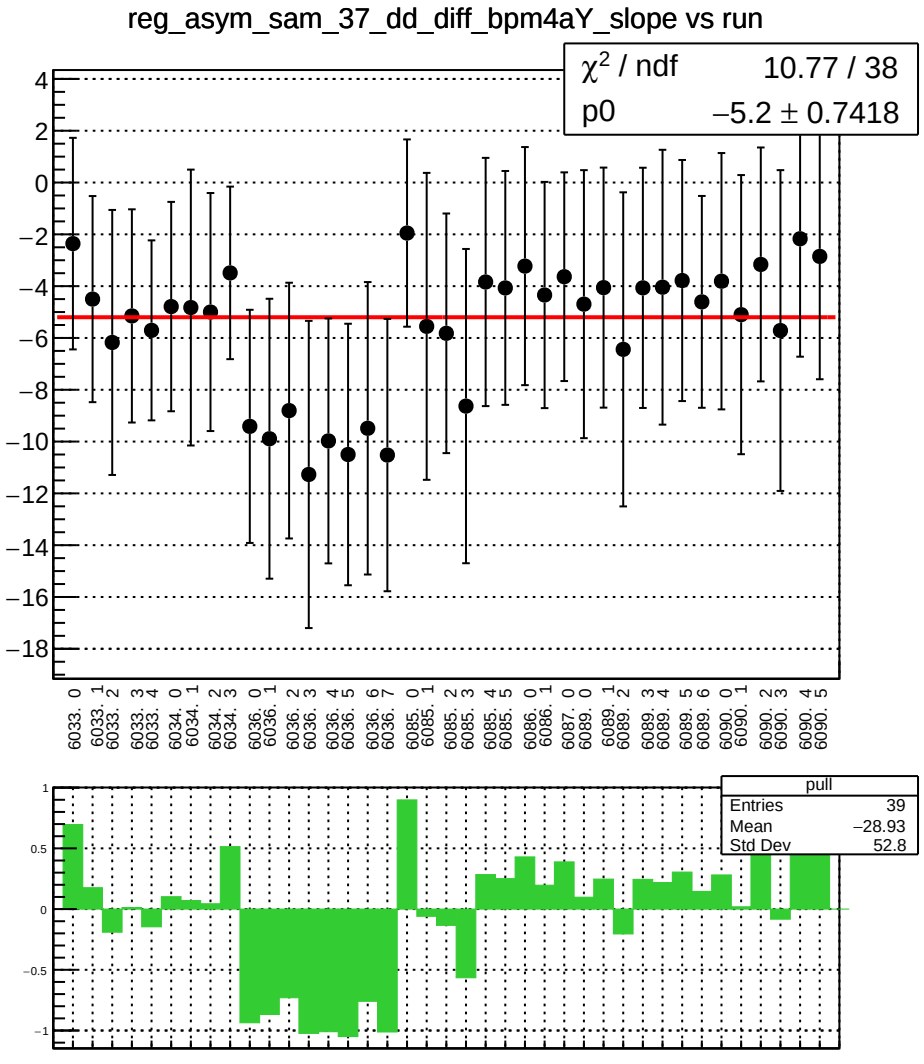

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.87 / 38
p0 −7.064 ± 1.395
pull
Entries 39
Mean −15.61
Std Dev 33.88
pull1D
Entries 39
Mean 0.08418
Std Dev 0.6324

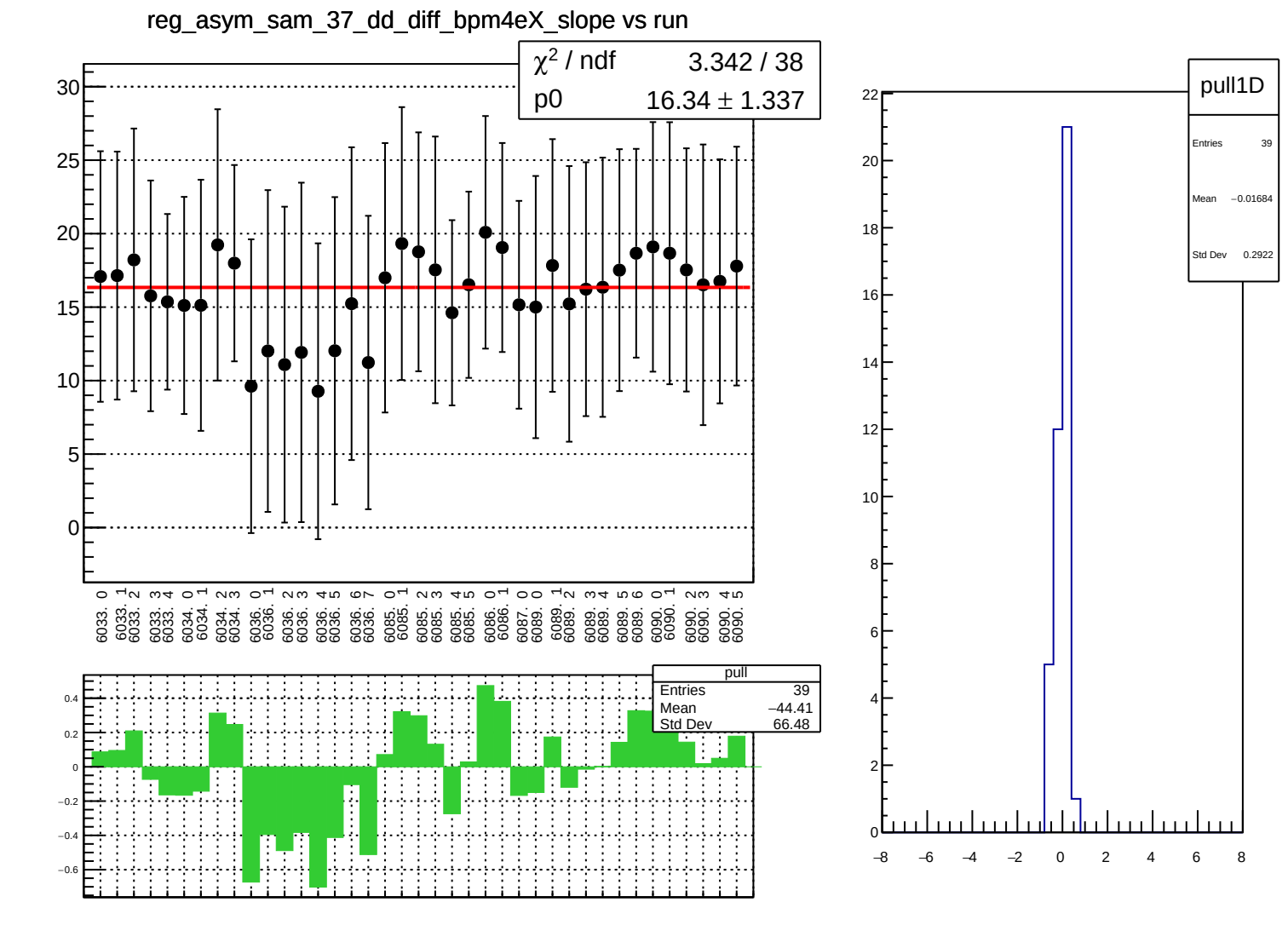

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.582 / 38
p0 −0.8372 ± 0.1066
pull
Entries 39
Mean 371
Std Dev 355.2

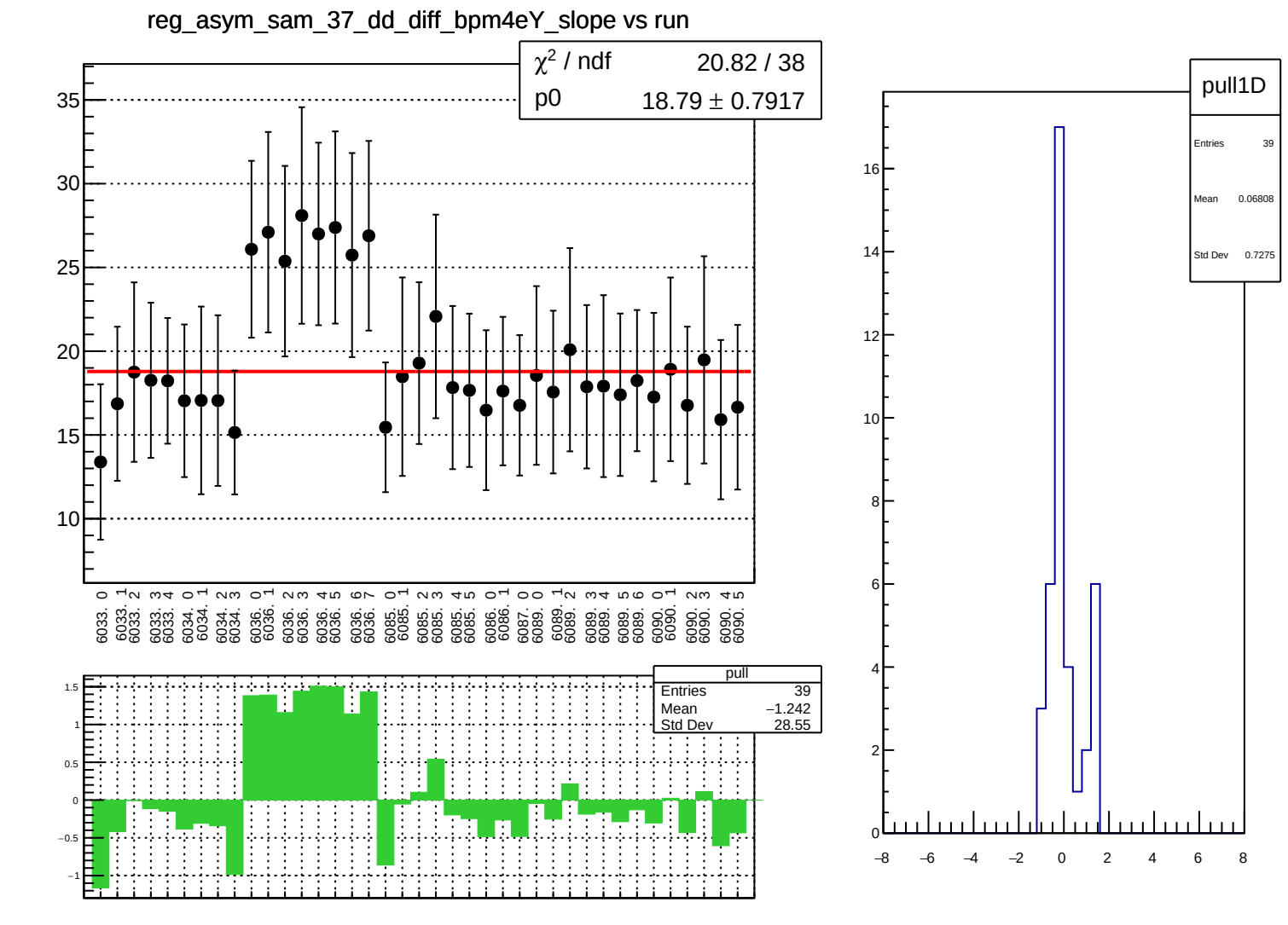

pull1D
Entries 39
Mean 0.00379
Std Dev 0.2573

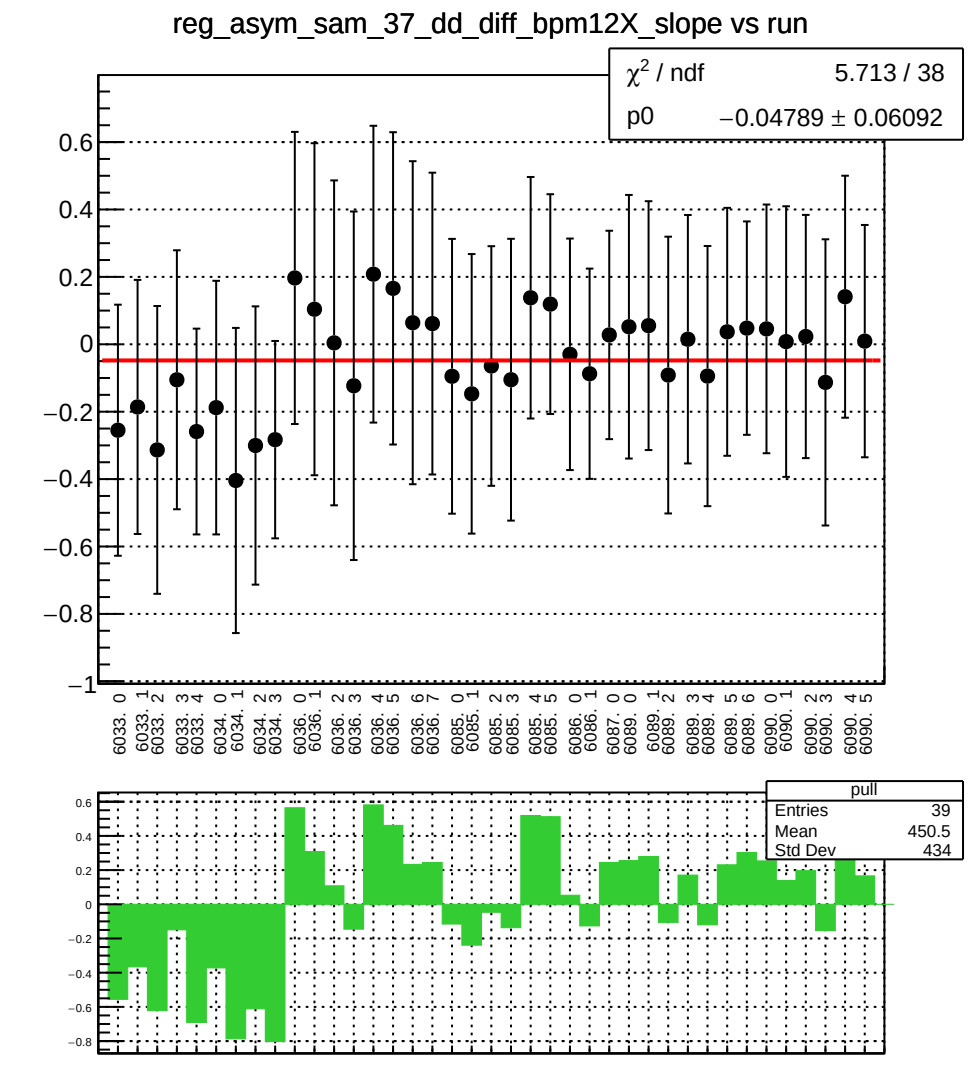

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.109 / 38
p0 −52.85 ± 1.189
−35
−40
−45
−50
−55
−60
−65
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −46.97
Std Dev 68.33
0.6
0.4
0.2
0
−0.2
−0.4

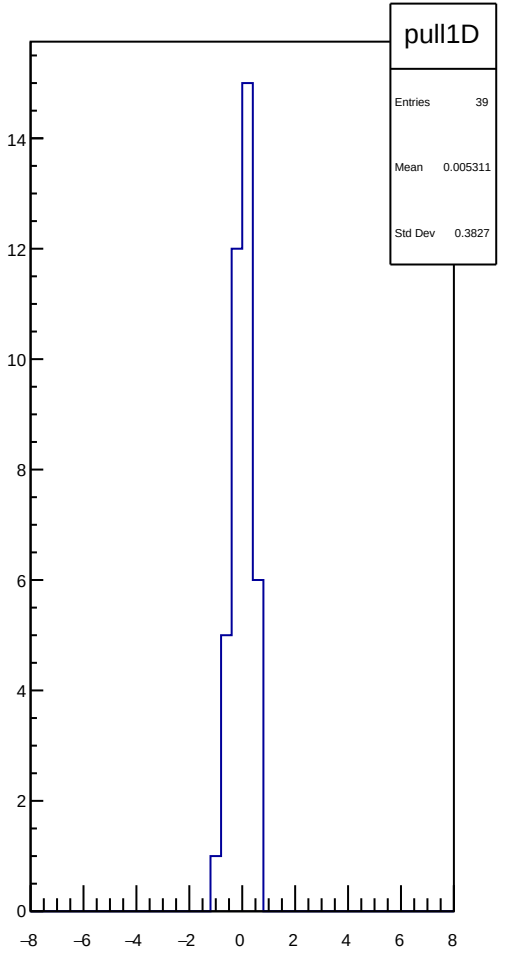

pull1D
Entries 39
Mean 0.01358
Std Dev 0.2322
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

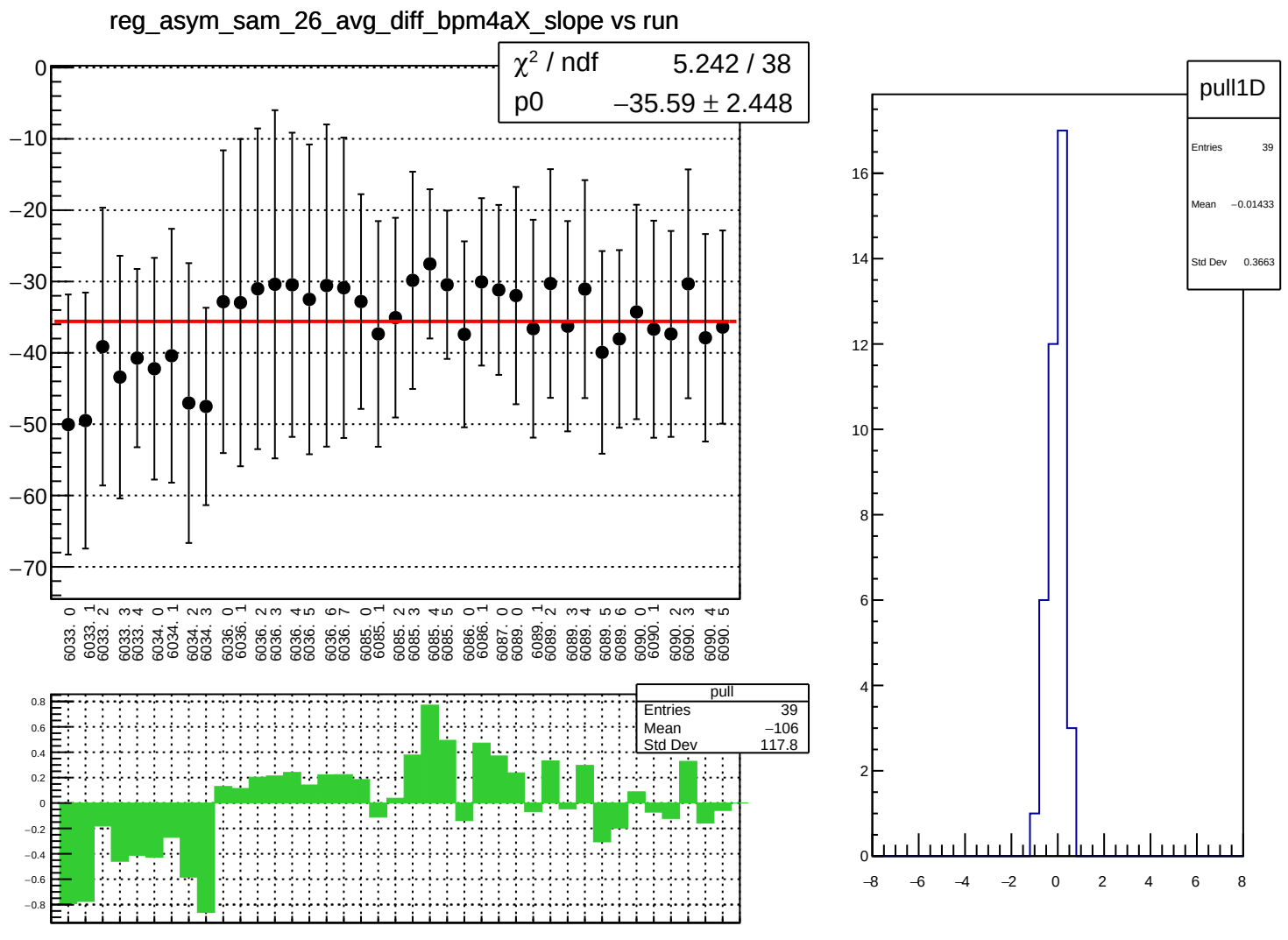

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 38
p0 −5.2 ± 0.7418
4
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −28.93
Std Dev 52.8
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.03947
Std Dev 0.5239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

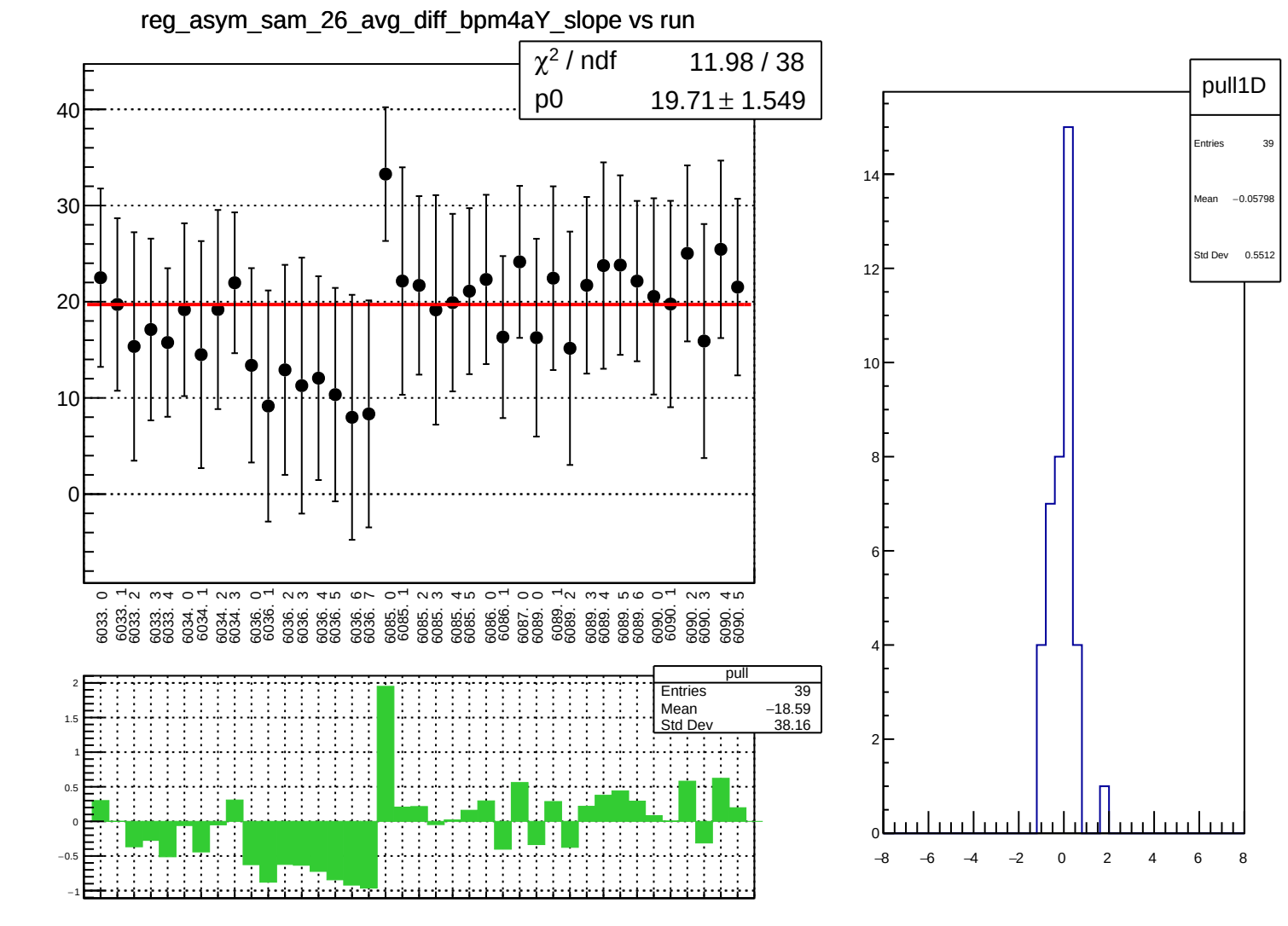

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.342 / 38
p0 16.34 ± 1.337
pull
Entries 39
Mean −44.41
Std Dev 66.48
pull1D
Entries 39
Mean −0.01684
Std Dev 0.2922

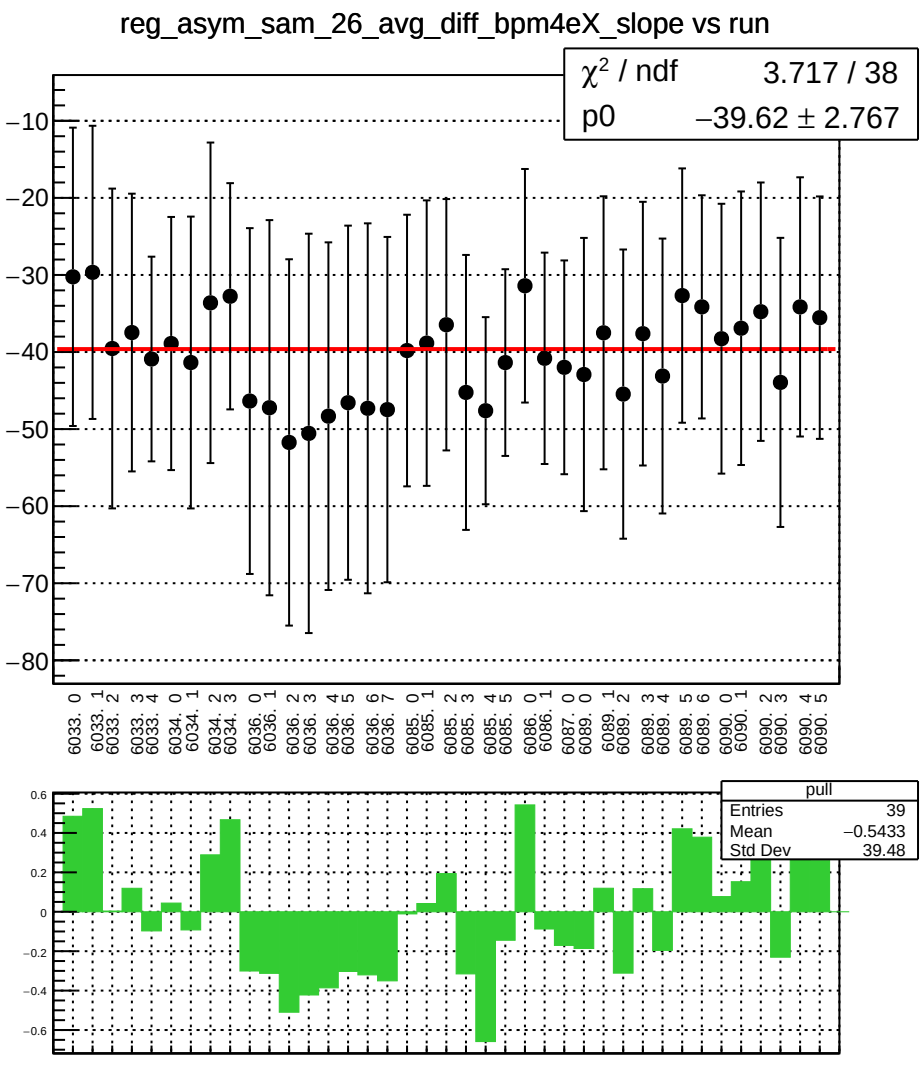

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.82 / 38
p0 18.79 ± 0.7917
pull
Entries 39
Mean −1.242
Std Dev 28.55
pull1D
Entries 39
Mean 0.06808
Std Dev 0.7275

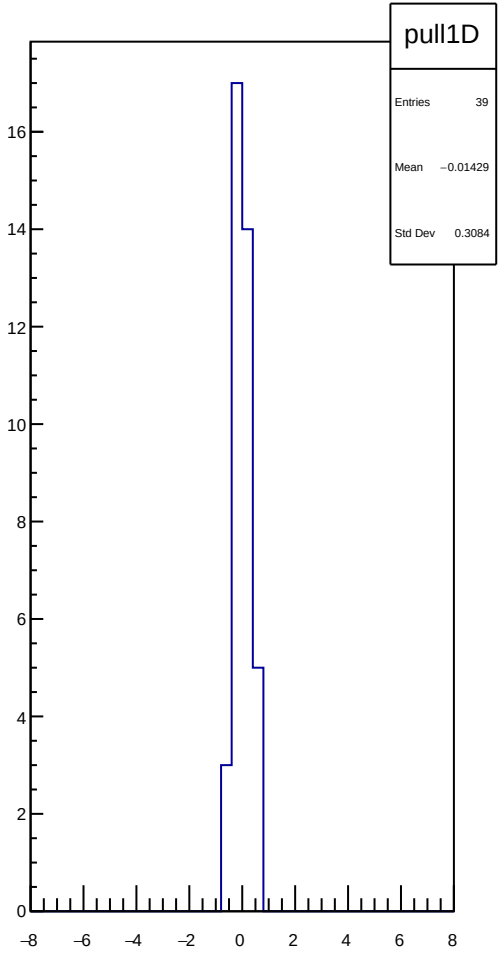

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.713 / 38
p0 −0.04789 ± 0.06092
pull
Entries 39
Mean 450.5
Std Dev 434

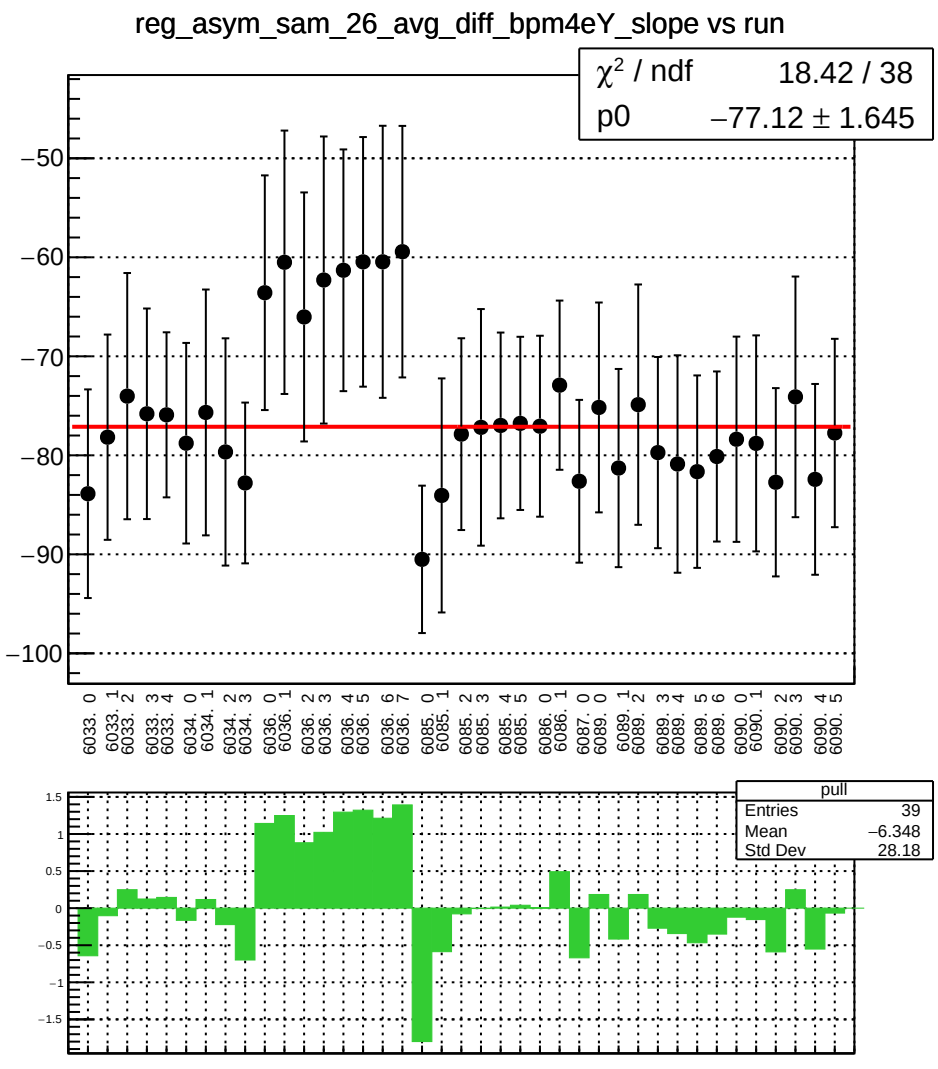

pull1D
Entries 39
Mean 0.005311
Std Dev 0.3827

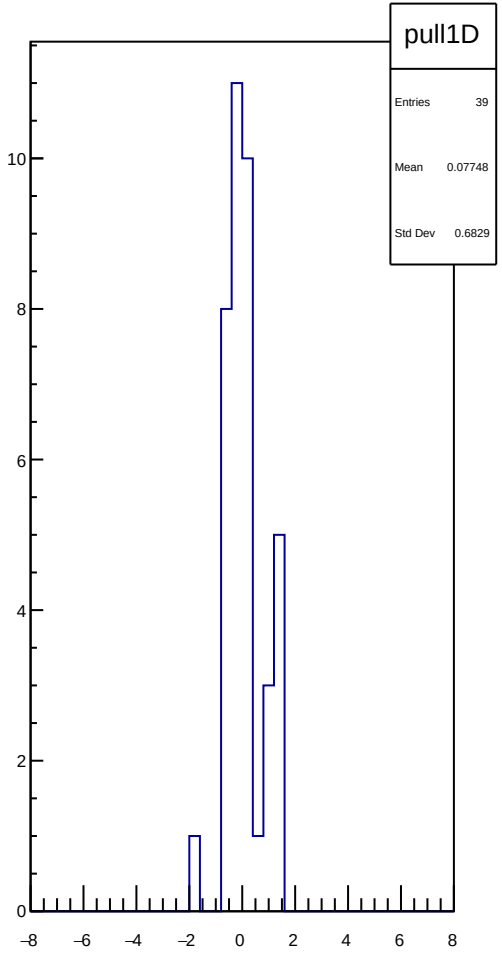

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.242 / 38
p0 −35.59 ± 2.448
pull
Entries 39
Mean −106
Std Dev 117.8
pull1D
Entries 39
Mean −0.01433
Std Dev 0.3663

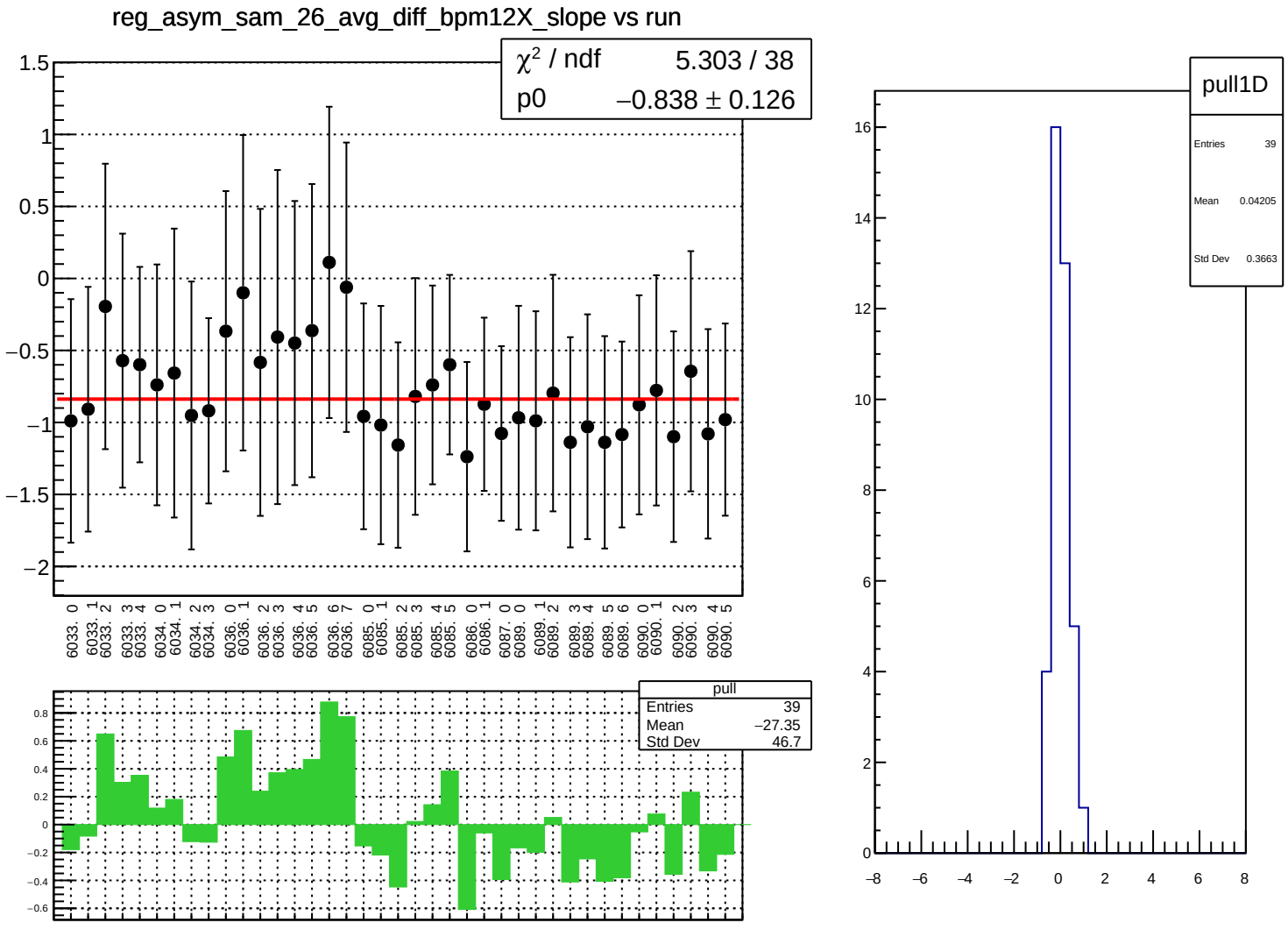

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.98 / 38
p0 19.71 ± 1.549
pull
Entries 39
Mean −18.59
Std Dev 38.16
pull1D
Entries 39
Mean −0.05798
Std Dev 0.5512

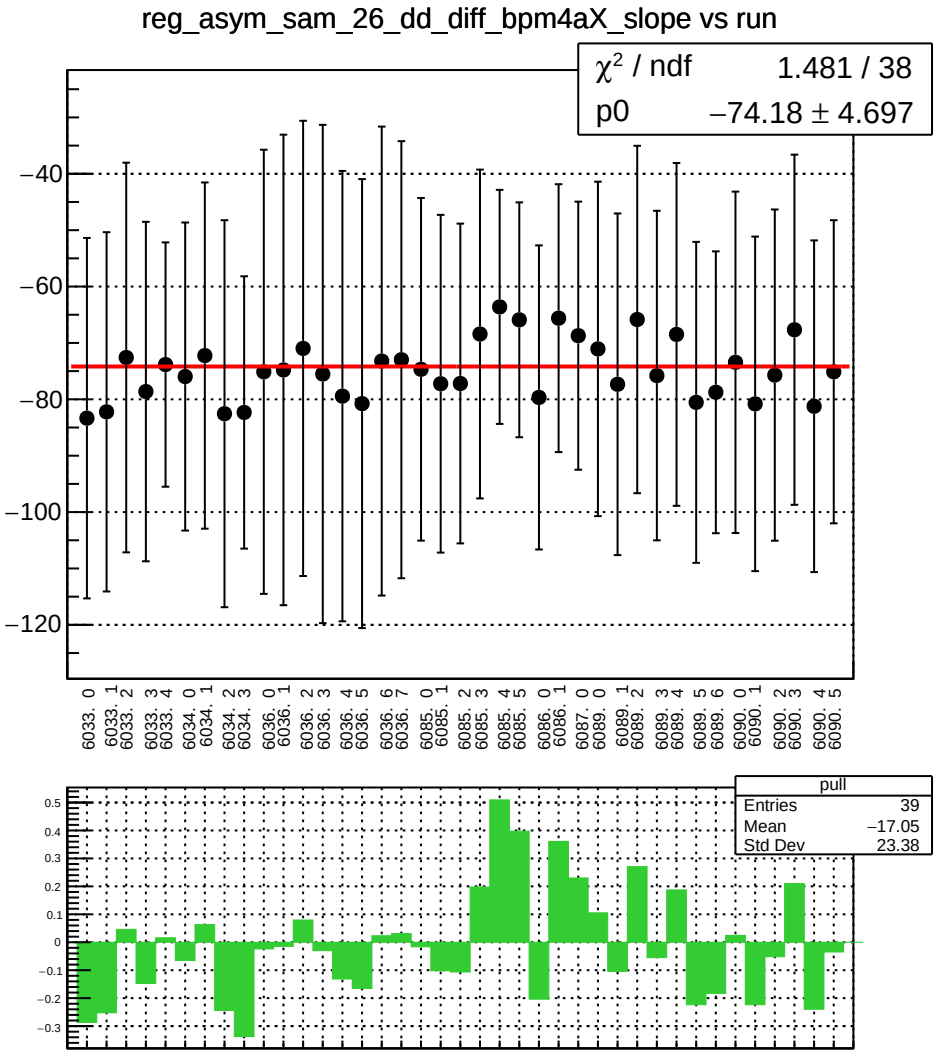

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.717 / 38
p0 −39.62 ± 2.767
pull
Entries 39
Mean −0.5433
Std Dev 39.48

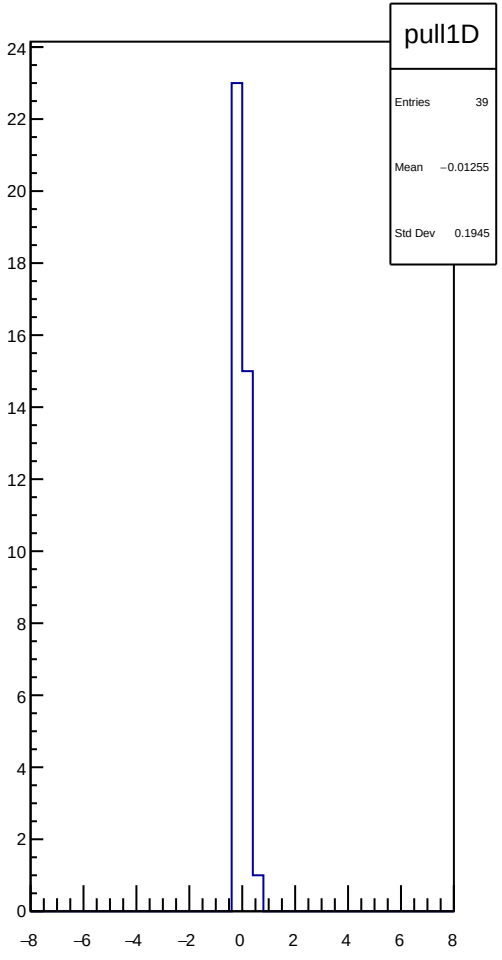

pull1D
Entries 39
Mean −0.01429
Std Dev 0.3084

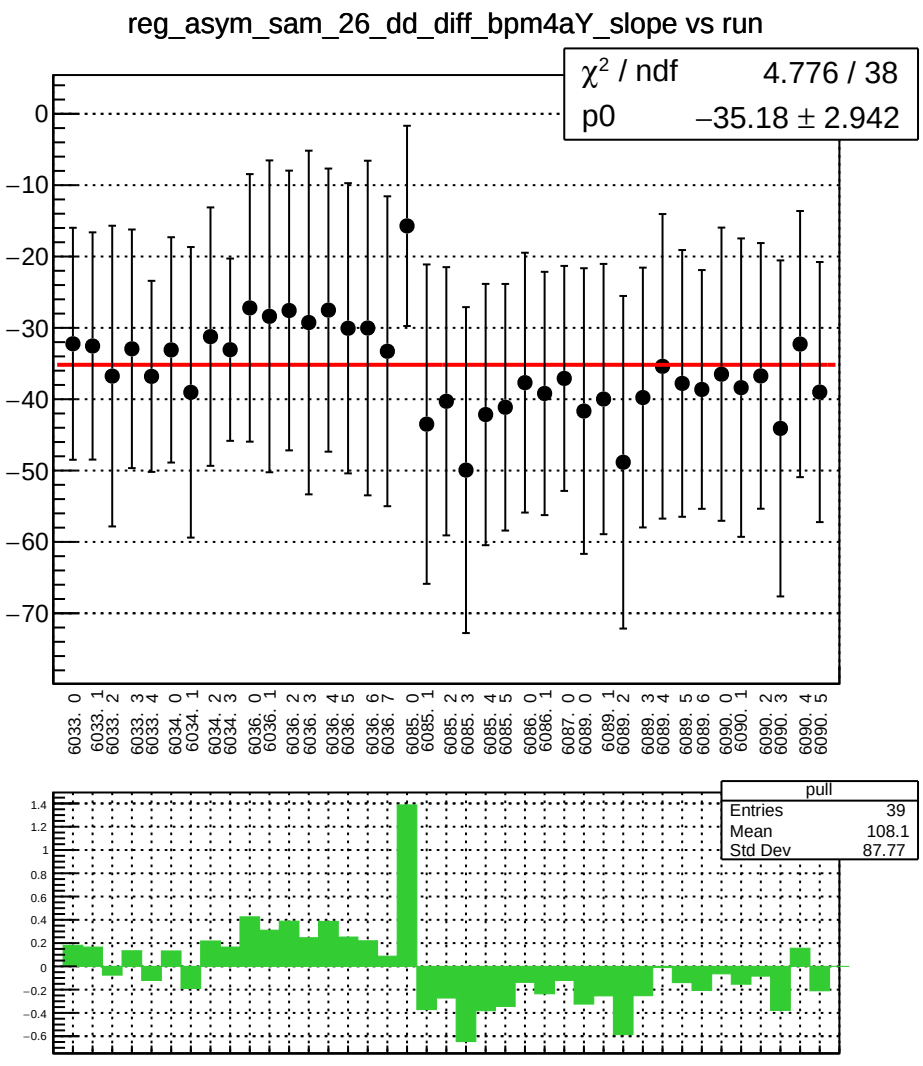

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.42 / 38
p0 −77.12 ± 1.645
−50
−60
−70
−80
−90
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −6.348
Std Dev 28.18
1.5
1
0.5
0
−0.5
−1
−1.5

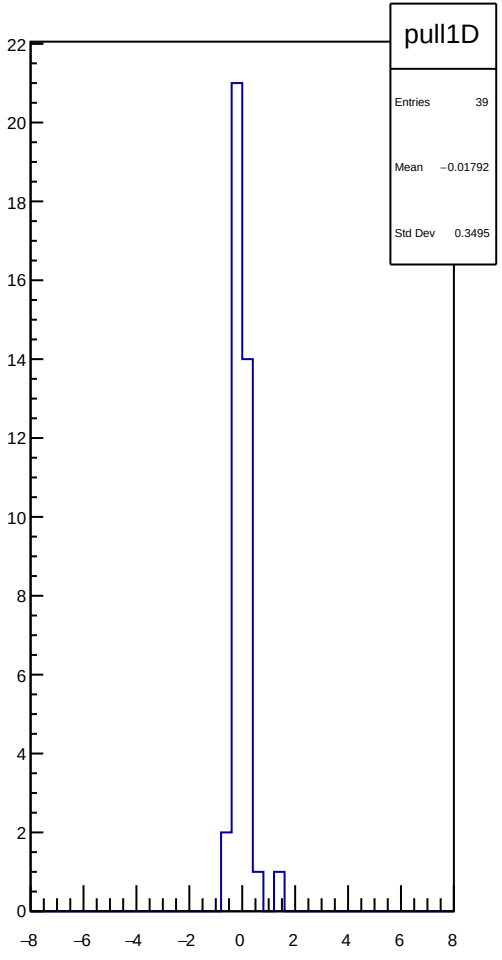

pull1D
Entries 39
Mean 0.07748
Std Dev 0.6829
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

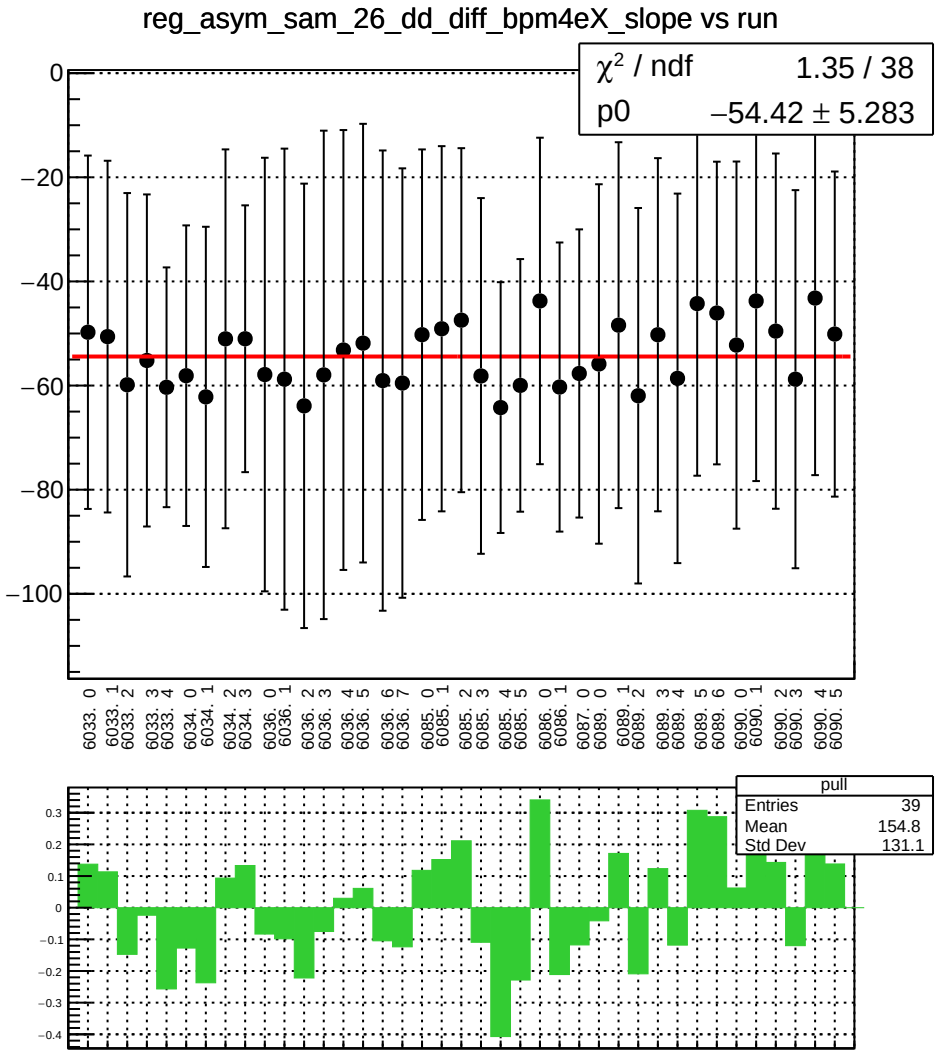

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 5.303 / 38
p0 −0.838 ± 0.126
pull
Entries 39
Mean −27.35
Std Dev 46.7
pull1D
Entries 39
Mean 0.04205
Std Dev 0.3663

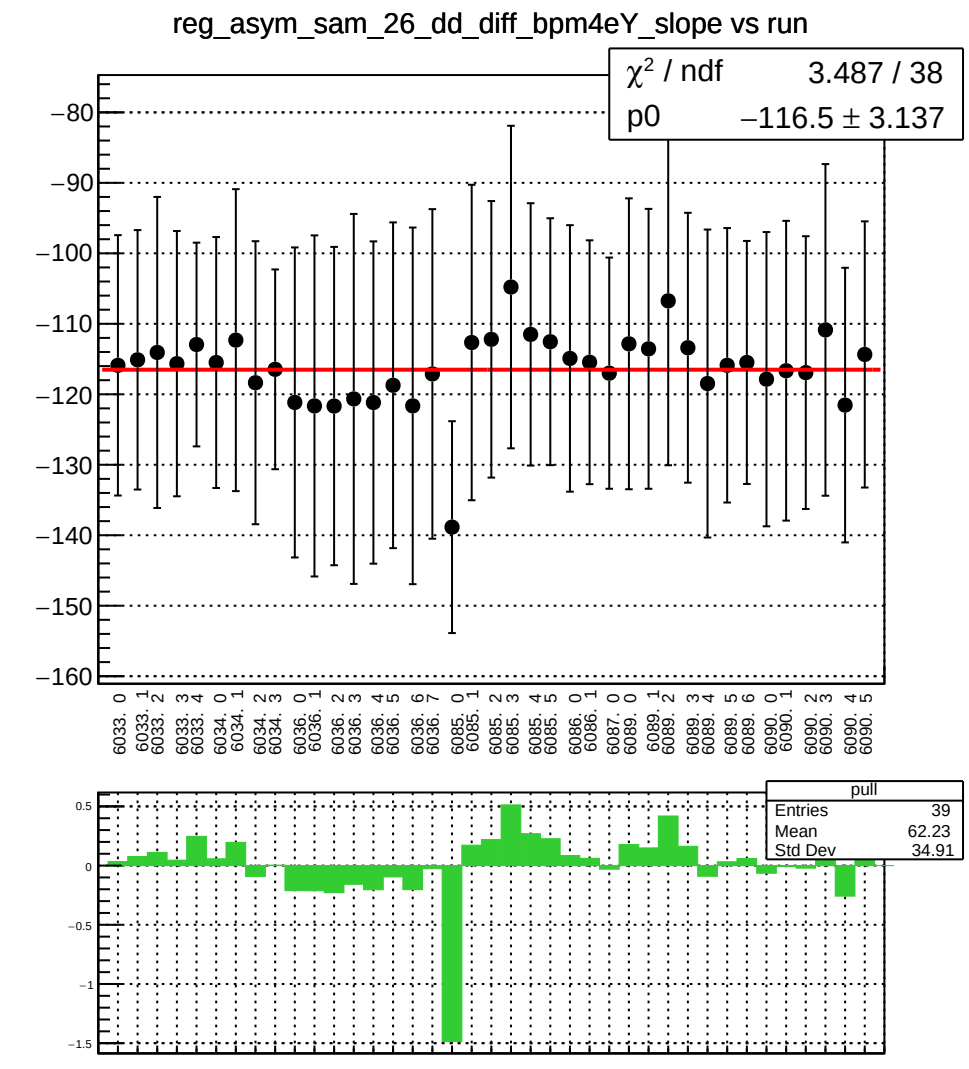

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.481 / 38
p0 −74.18 ± 4.697
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −17.05
Std Dev 23.38
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

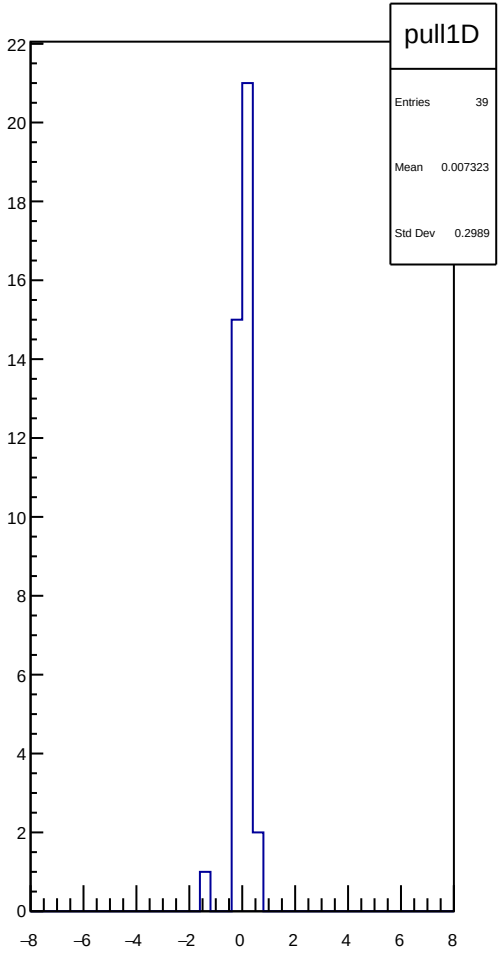

pull1D
Entries 39
Mean −0.01255
Std Dev 0.1945
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

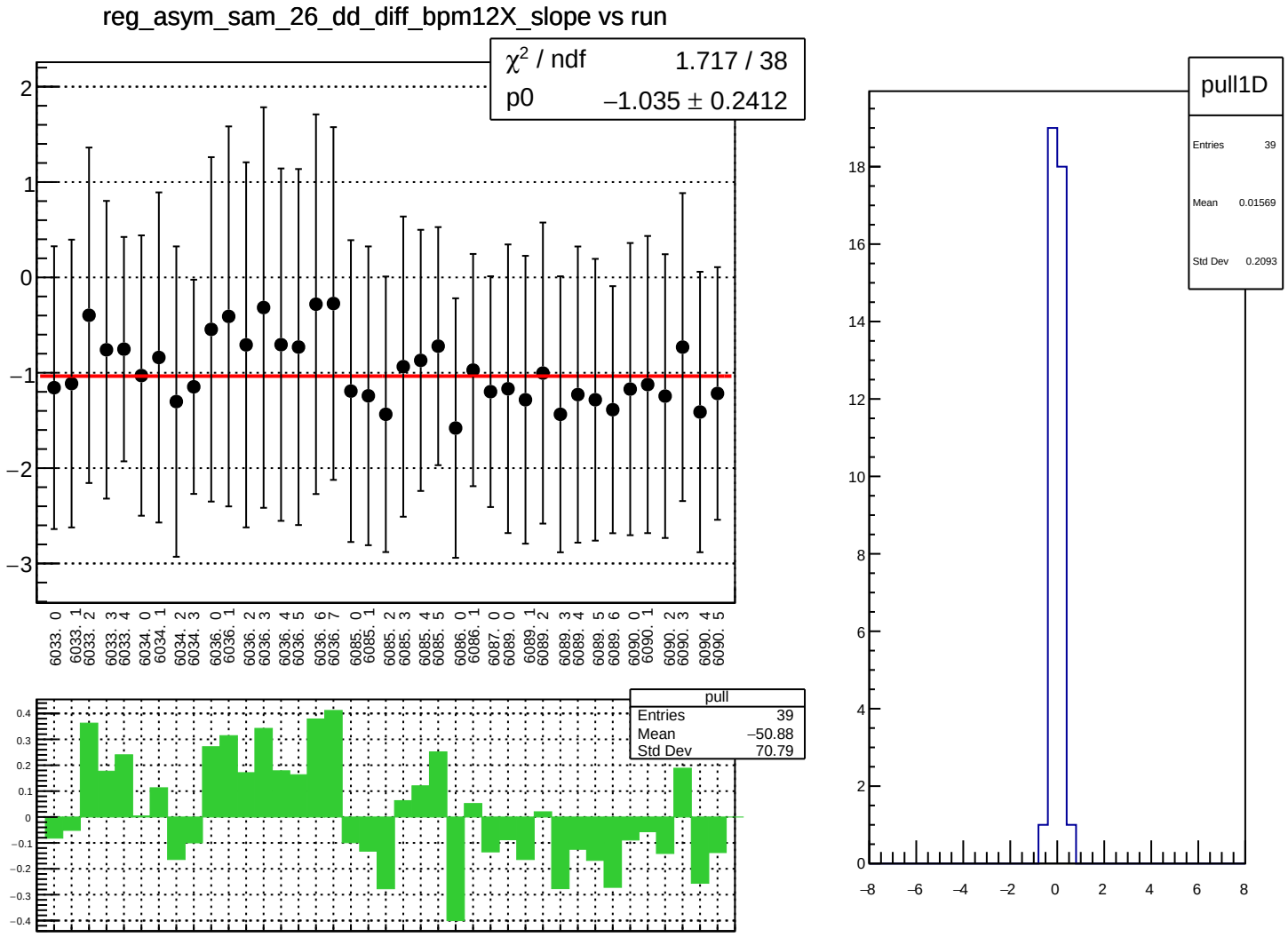

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.776 / 38
p0 −35.18 ± 2.942
0
−10
−20
−30
−40
−50
−60
−70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 108.1
Std Dev 87.77
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

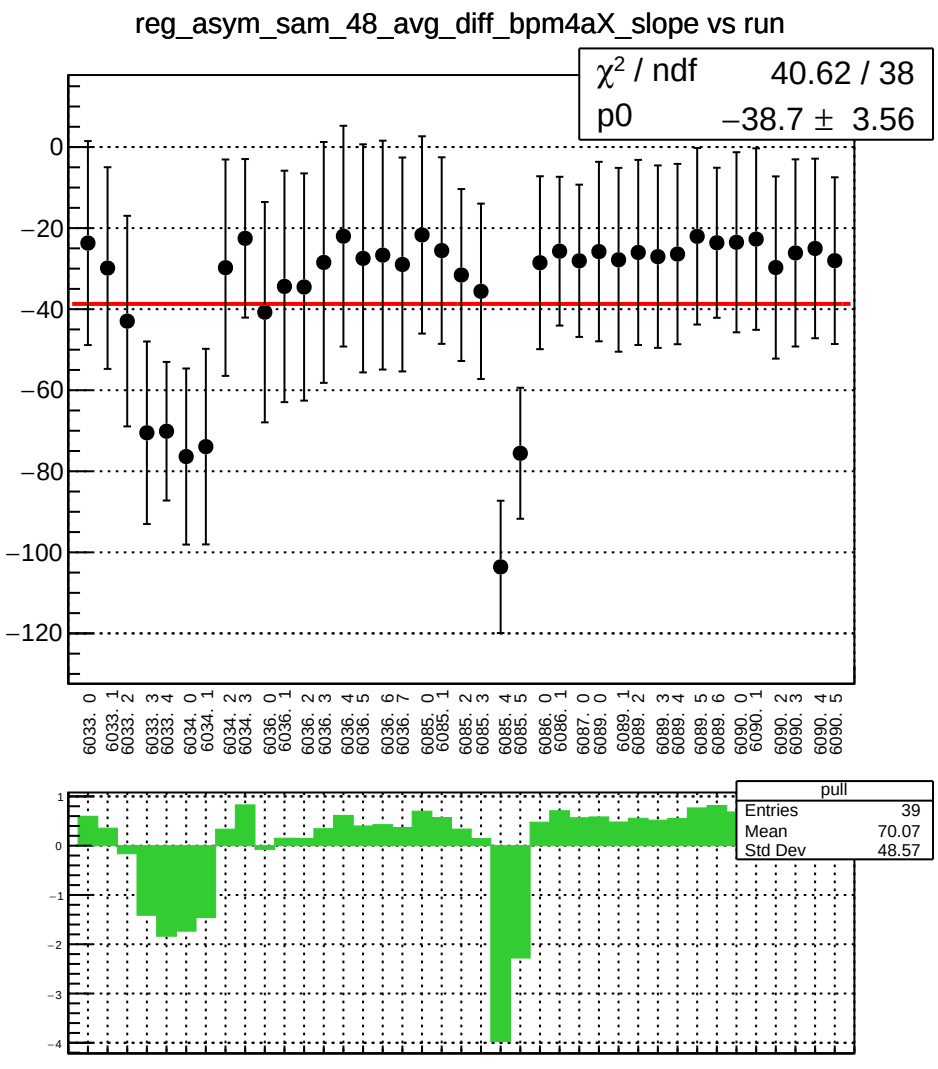

pull1D
Entries 39
Mean −0.01792
Std Dev 0.3495
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

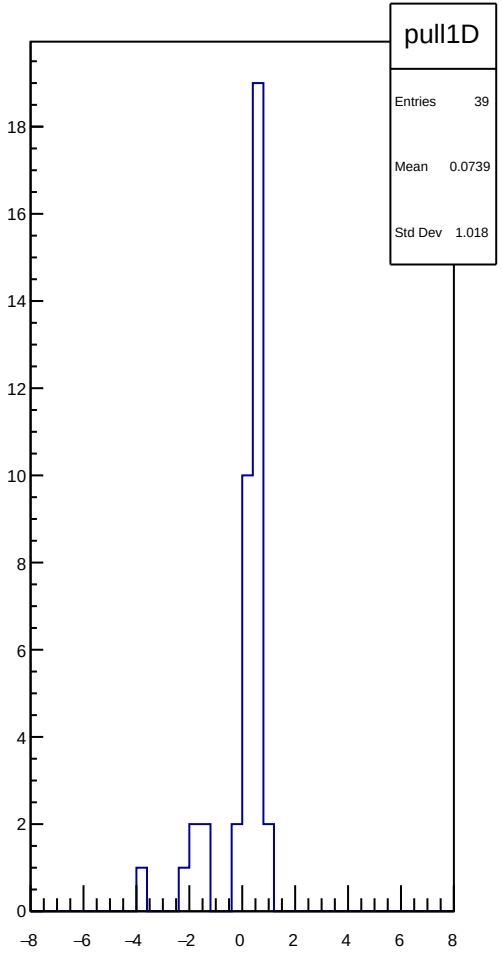

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.35 / 38
p0 −54.42 ± 5.283
0
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 154.8
Std Dev 131.1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 39
Mean 0.005148
Std Dev 0.186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

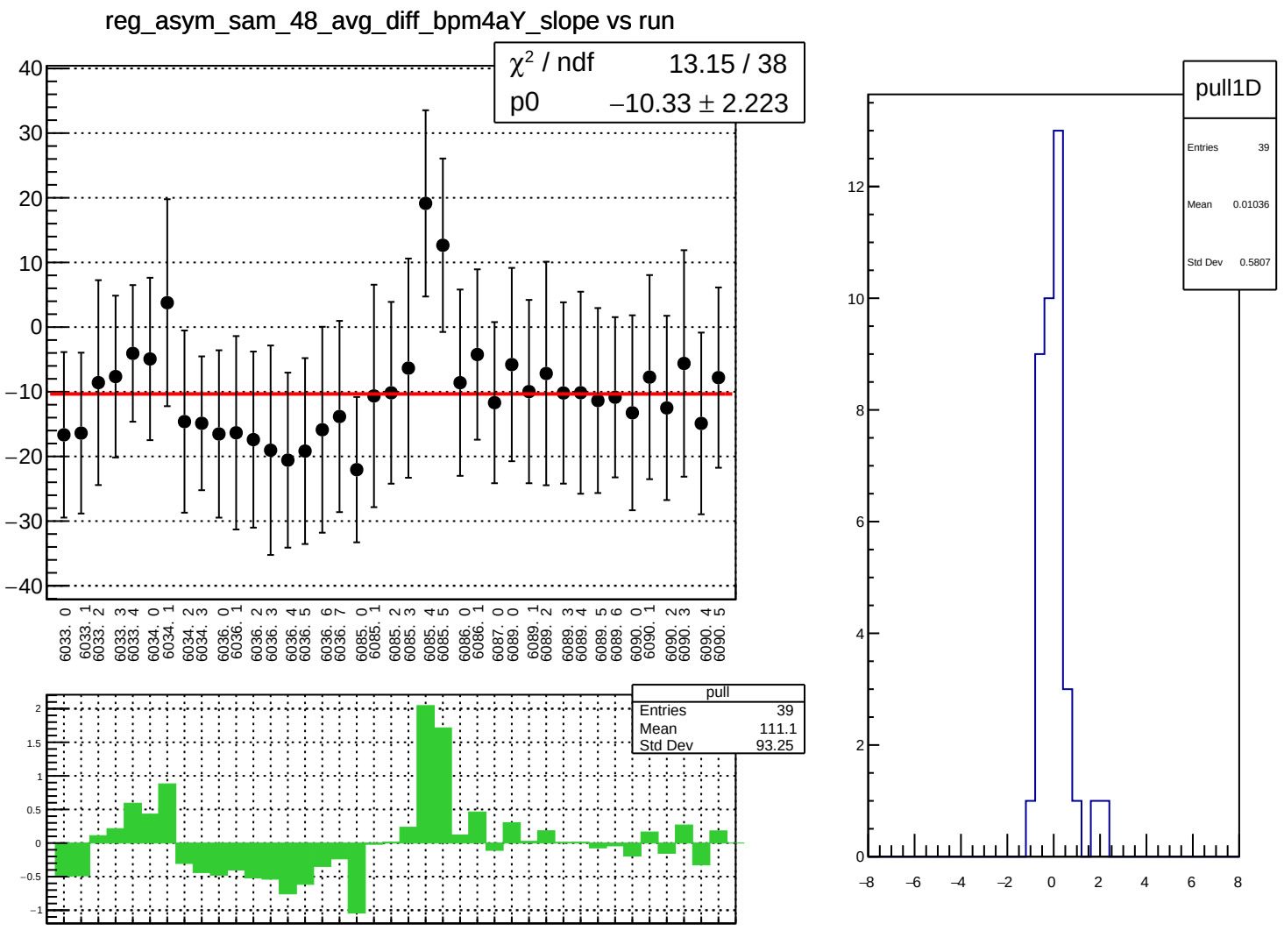

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.487 / 38
p0 −116.5 ± 3.137
pull
Entries 39
Mean 62.23
Std Dev 34.91

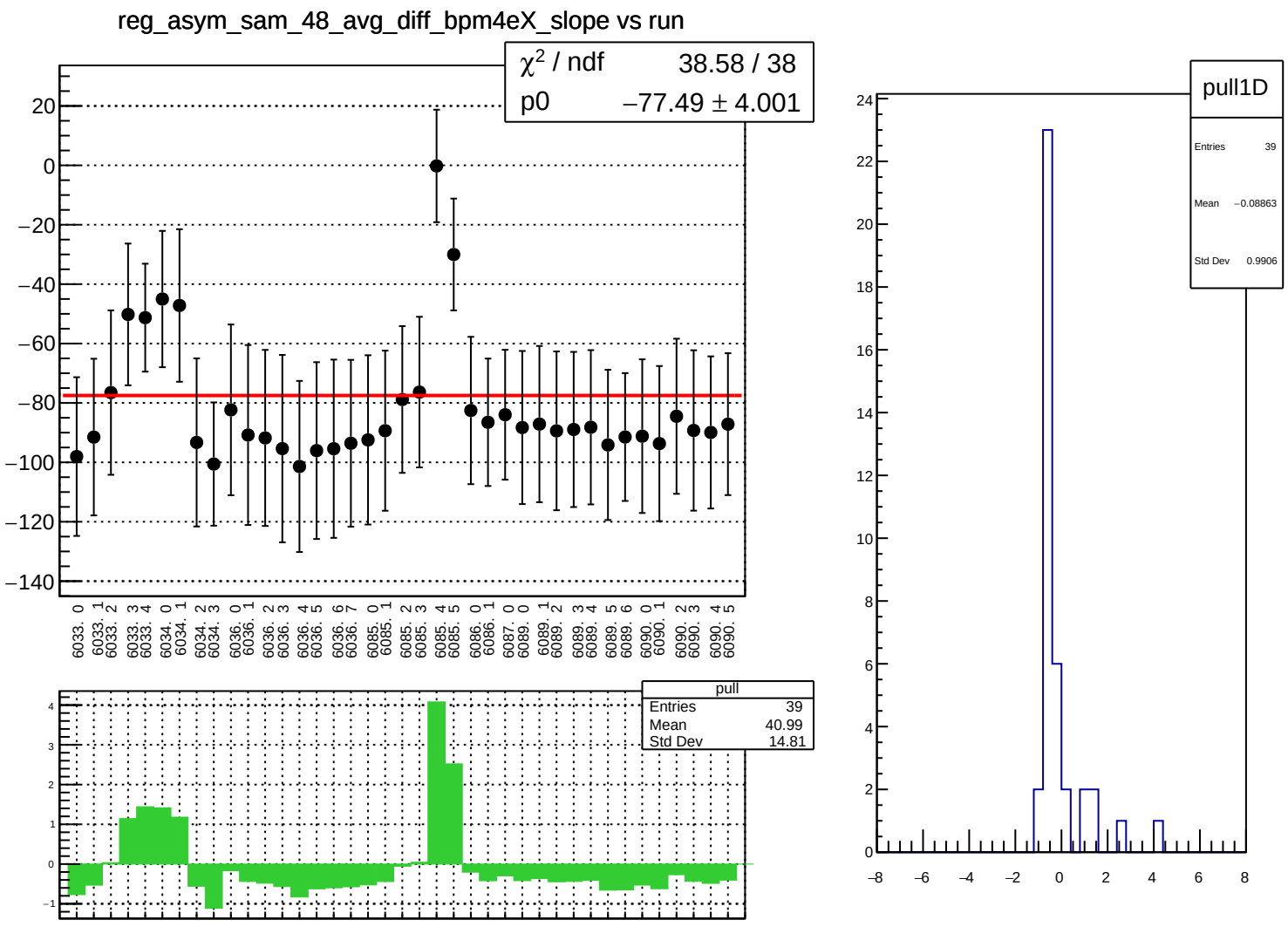

pull1D
Entries 39
Mean 0.007323
Std Dev 0.2989

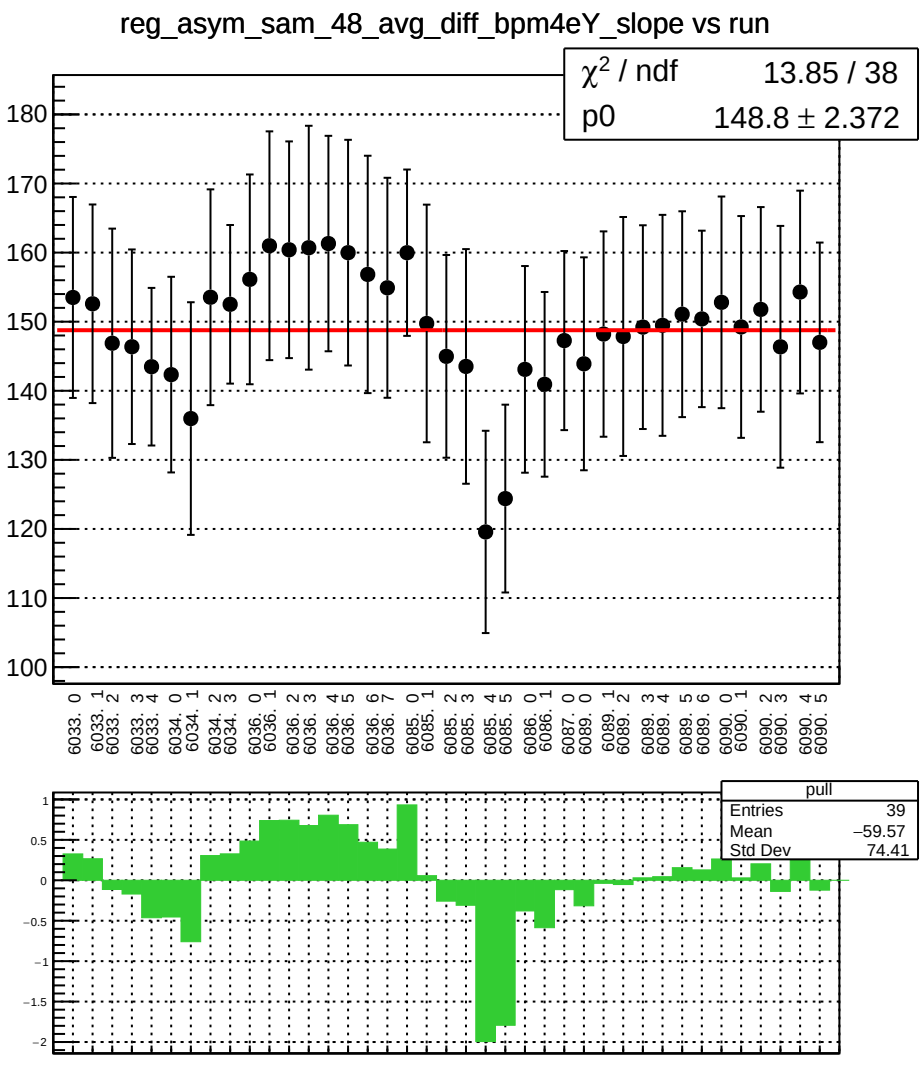

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.717 / 38
p0 −1.035 ± 0.2412
pull
Entries 39
Mean −50.88
Std Dev 70.79
pull1D
Entries 39
Mean 0.01569
Std Dev 0.2093

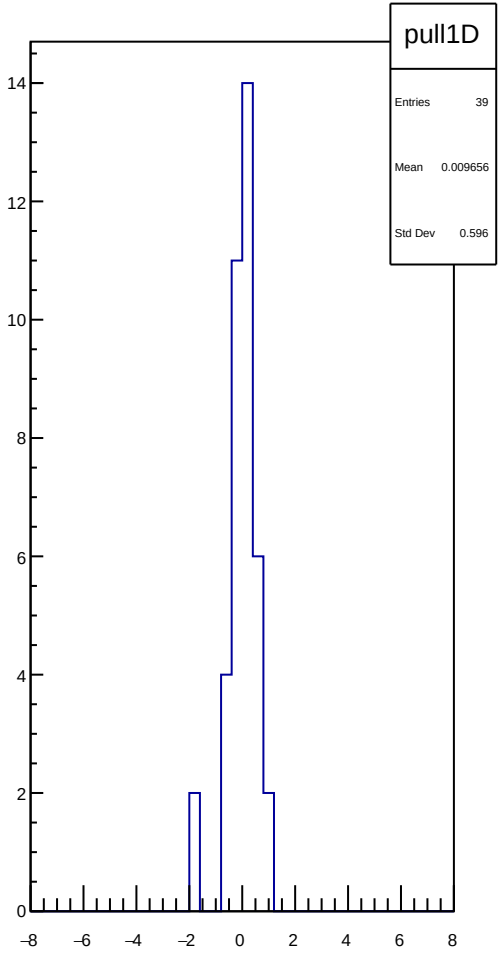

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.62 / 38
p0 −38.7 ± 3.56
0
−20
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 70.07
Std Dev 48.57
1
0
−1
−2
−3
−4

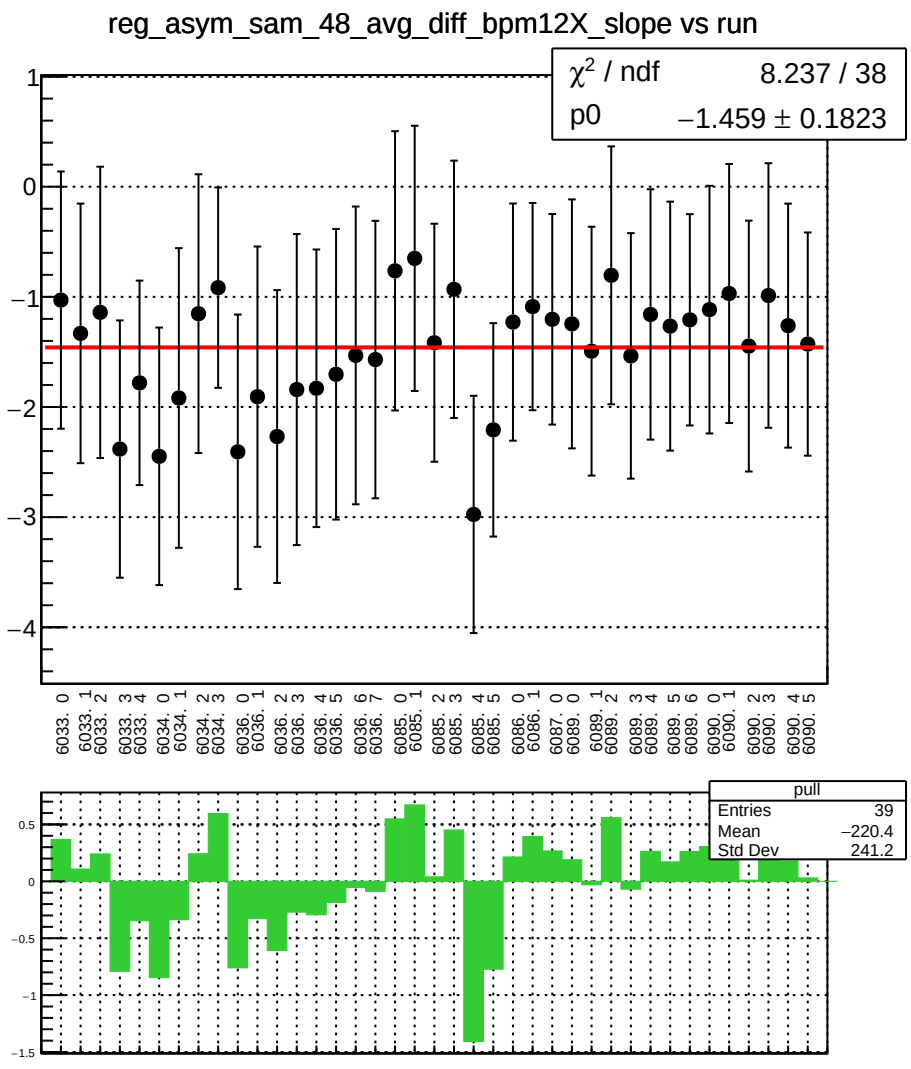

pull1D
Entries 39
Mean 0.0739
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

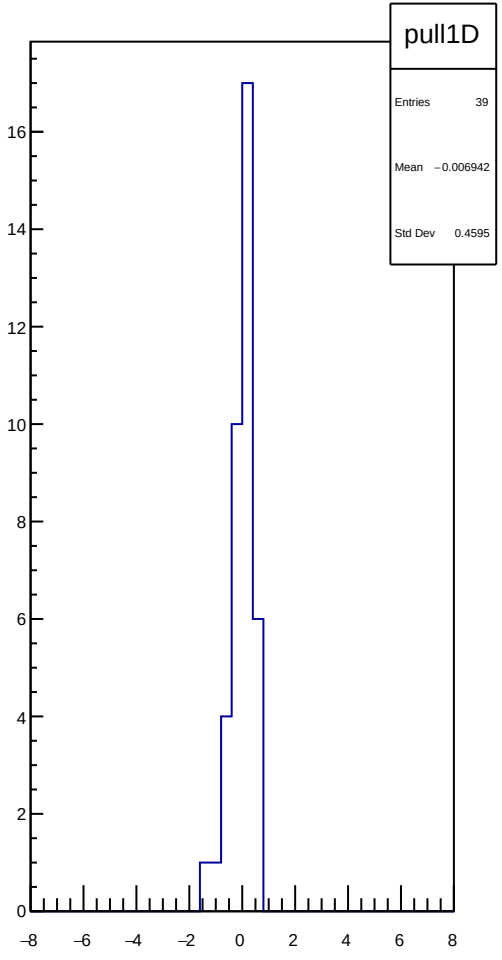

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.15 / 38
p0 −10.33 ± 2.223
pull
Entries 39
Mean 111.1
Std Dev 93.25
pull1D
Entries 39
Mean 0.01036
Std Dev 0.5807

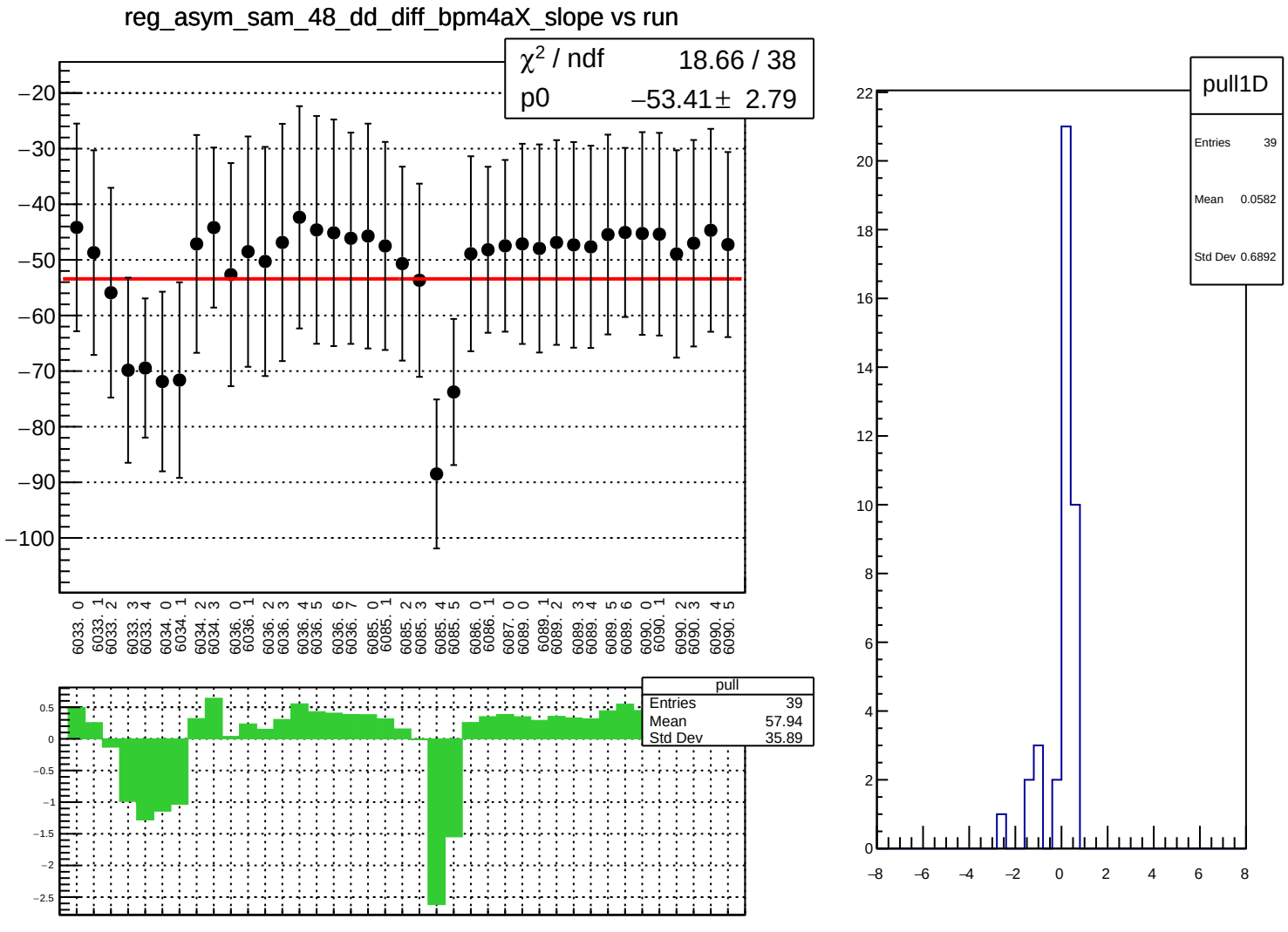

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.58 / 38
p0 −77.49 ± 4.001
pull
Entries 39
Mean 40.99
Std Dev 14.81
pull1D
Entries 39
Mean −0.08863
Std Dev 0.9906

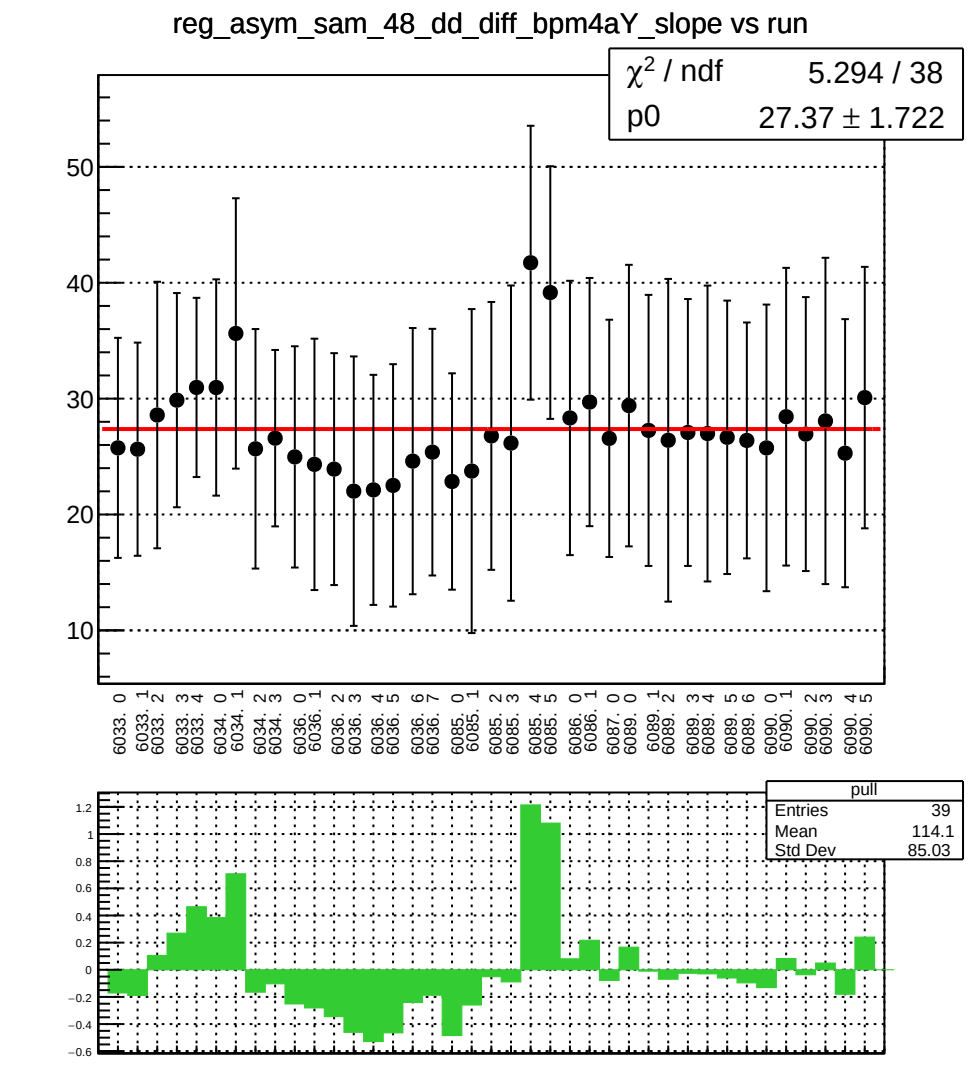

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.85 / 38
p0 148.8 ± 2.372
pull
Entries 39
Mean −59.57
Std Dev 74.41

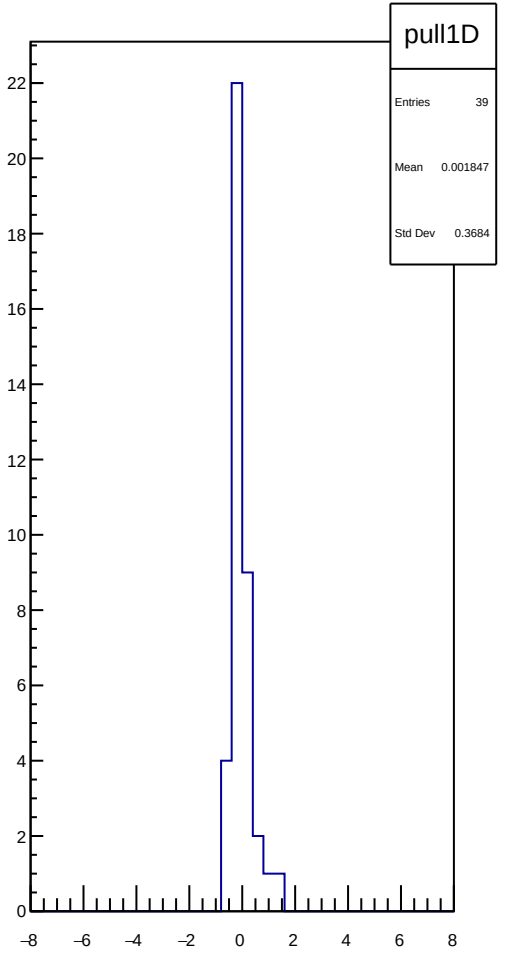

pull1D
Entries 39
Mean 0.009656
Std Dev 0.596

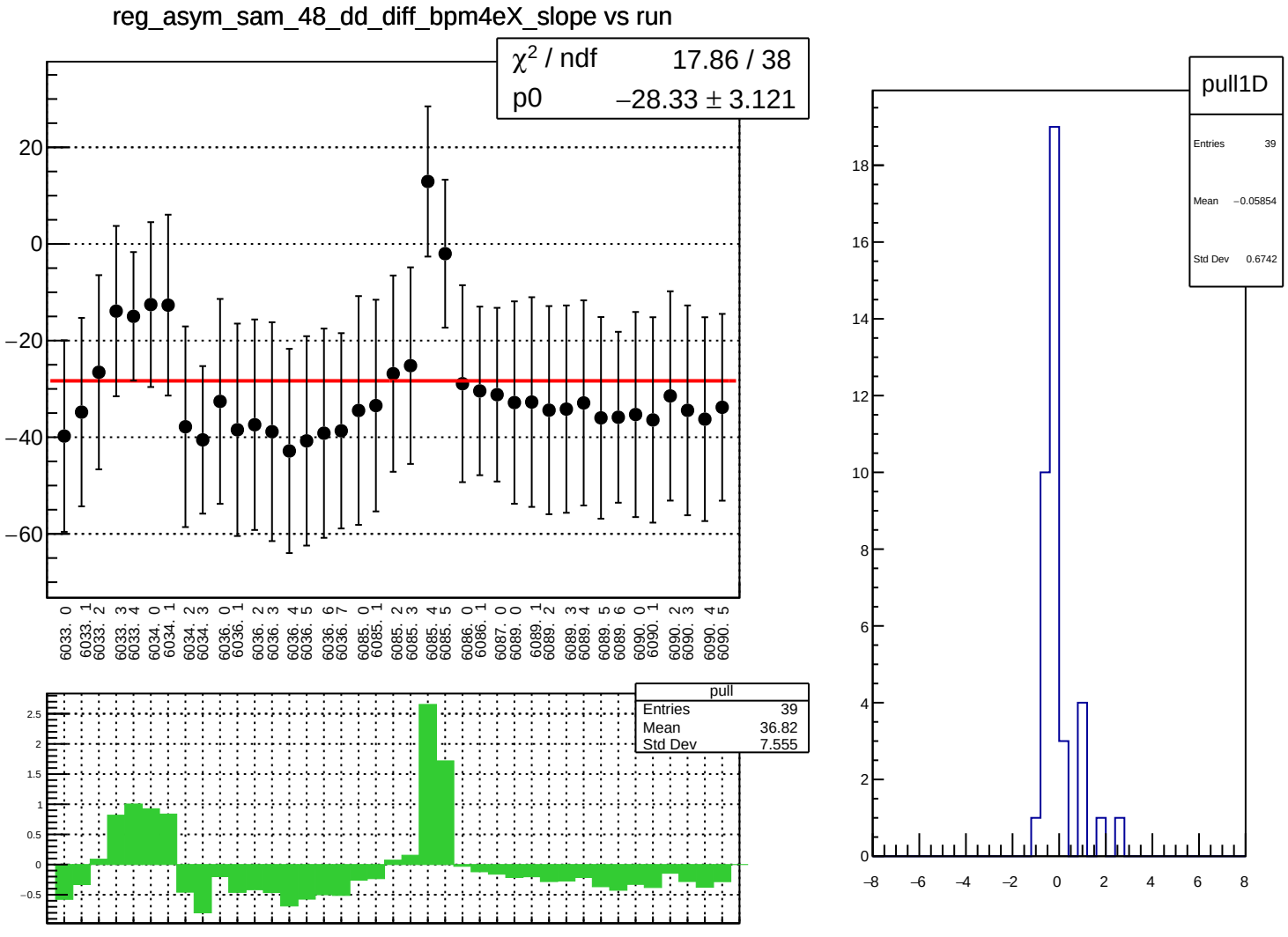

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 8.237 / 38
p0 −1.459 ± 0.1823
pull
Entries 39
Mean −220.4
Std Dev 241.2

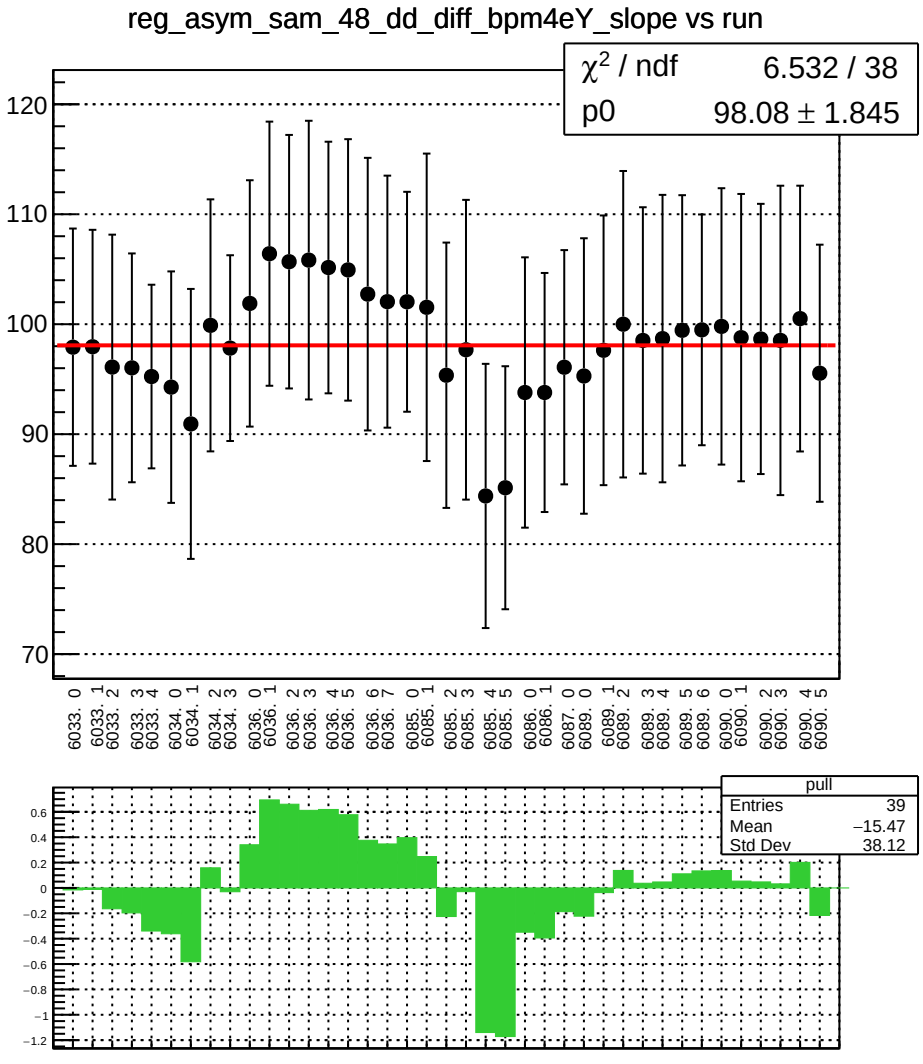

pull1D
Entries 39
Mean −0.006942
Std Dev 0.4595

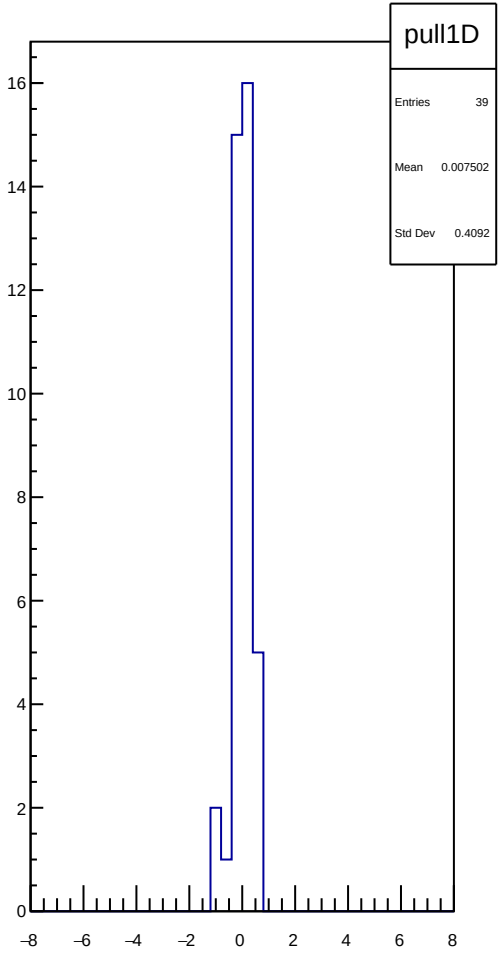

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.66 / 38
p0 −53.41± 2.79
pull
Entries 39
Mean 57.94
Std Dev 35.89
pull1D
Entries 39
Mean 0.0582
Std Dev 0.6892

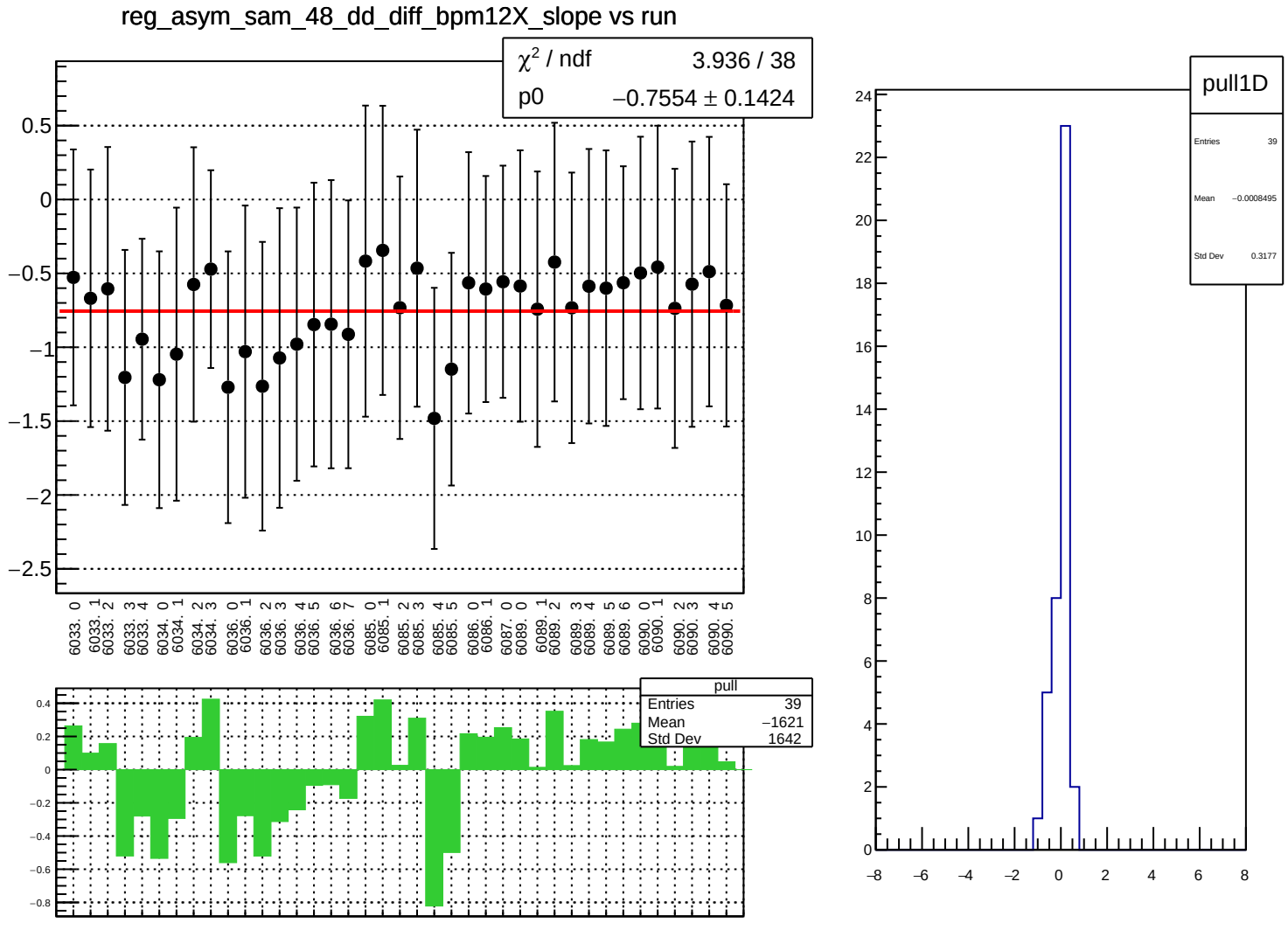

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.294 / 38
p0 27.37 ± 1.722
pull
Entries 39
Mean 114.1
Std Dev 85.03

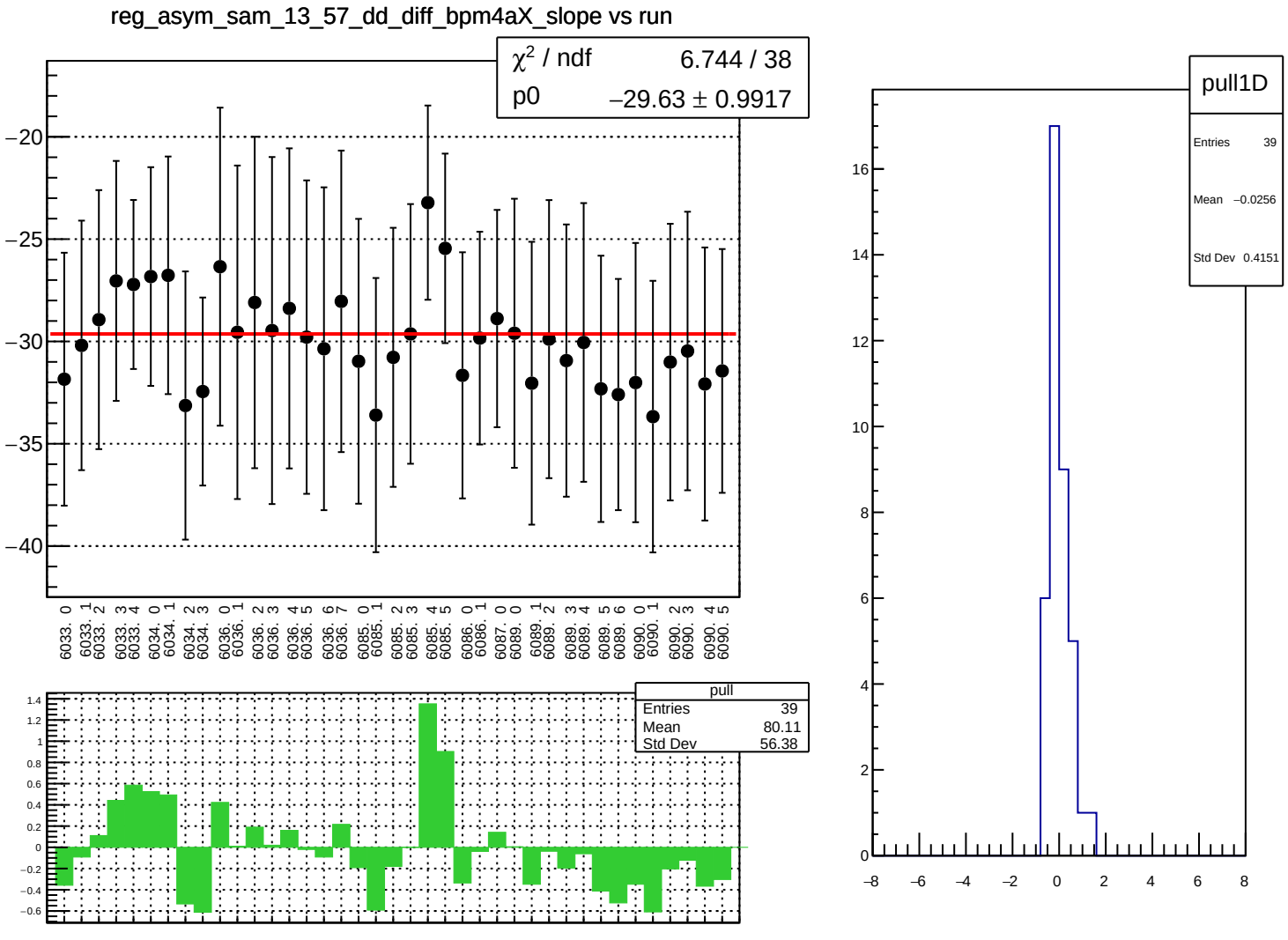

pull1D
Entries 39
Mean 0.001847
Std Dev 0.3684

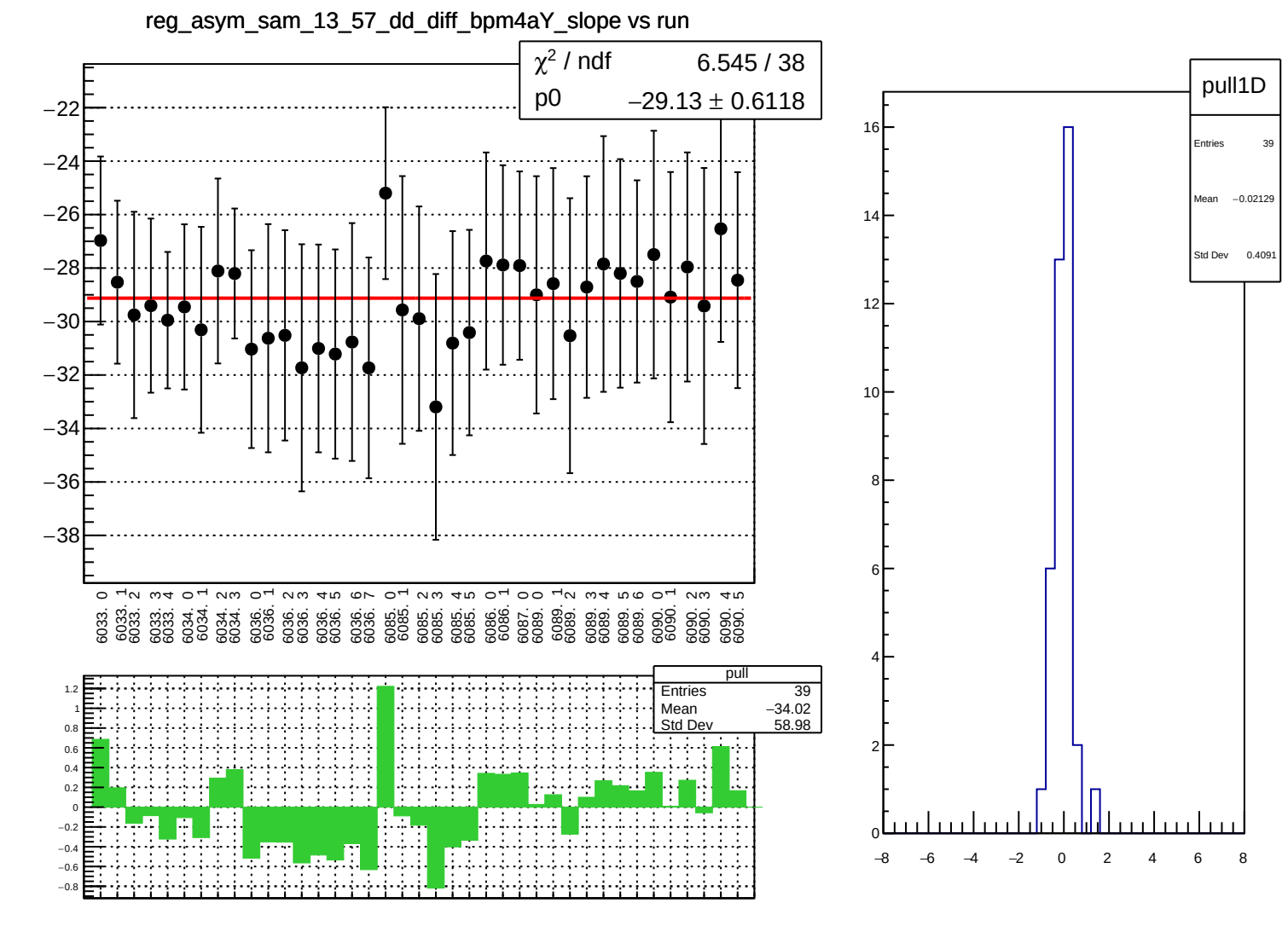

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.86 / 38
p0 −28.33 ± 3.121
20
0
−20
−40
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.82
Std Dev 7.555
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.05854
Std Dev 0.6742
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

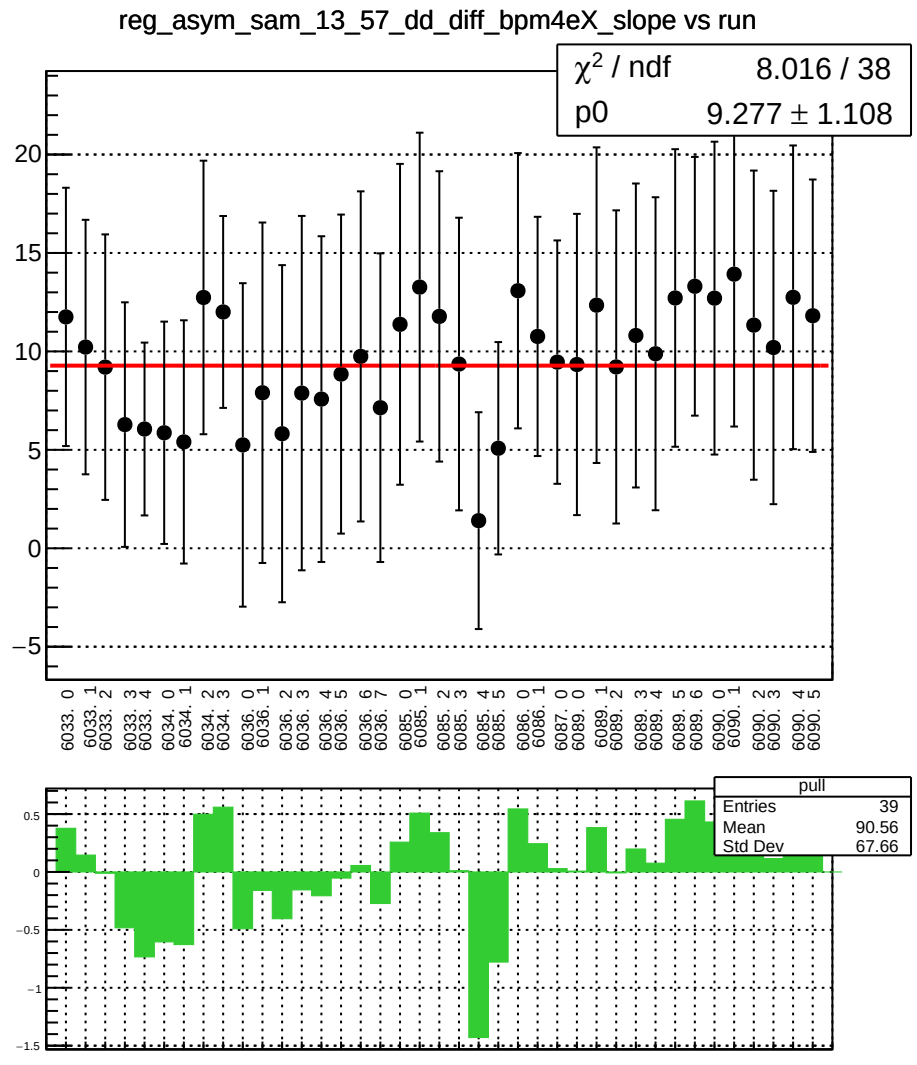

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.532 / 38
p0 98.08 ± 1.845
120
110
100
90
80
70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −15.47
Std Dev 38.12
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

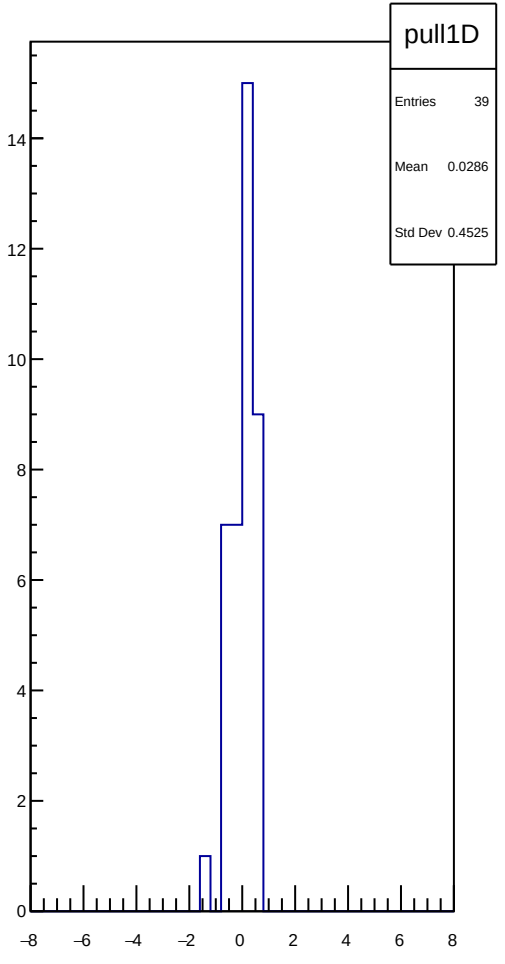

pull1D
Entries 39
Mean 0.007502
Std Dev 0.4092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

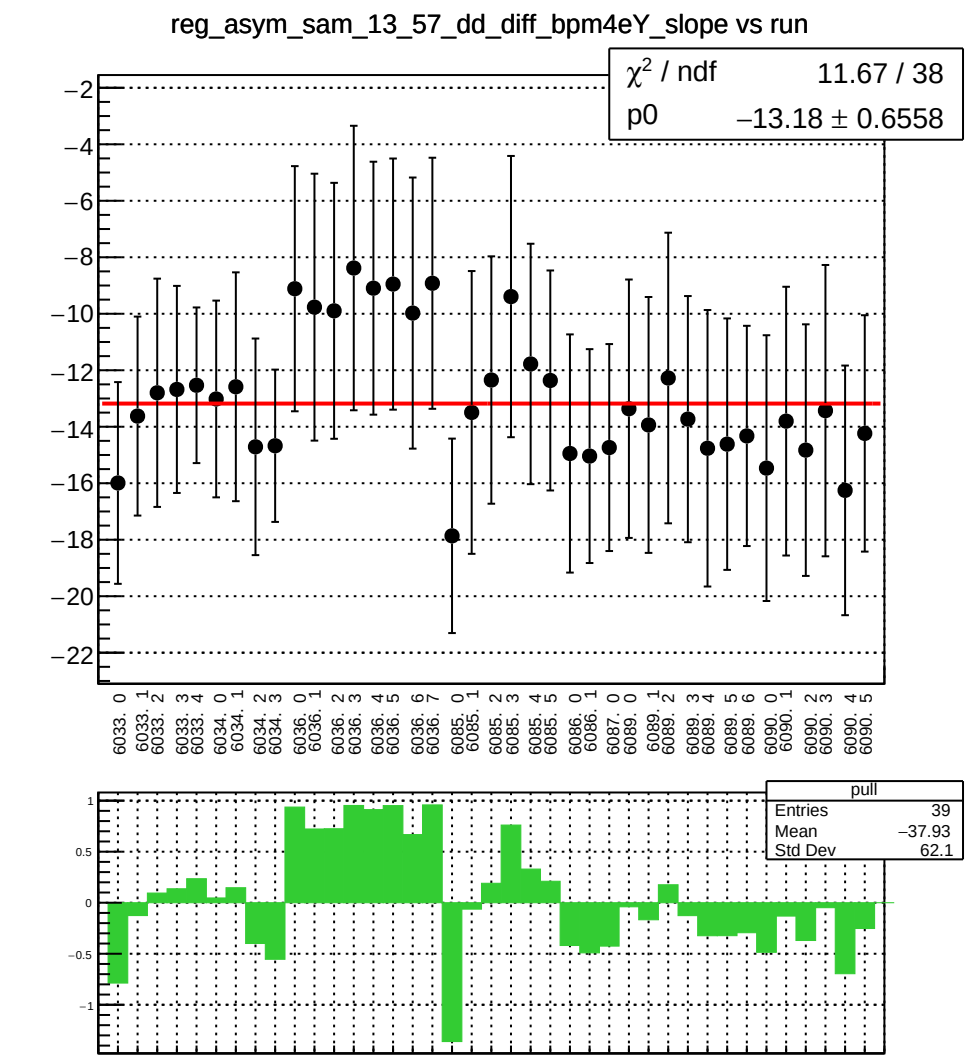

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.936 / 38
p0 −0.7554 ± 0.1424
pull
Entries 39
Mean −1621
Std Dev 1642
pull1D
Entries 39
Mean −0.0008495
Std Dev 0.3177

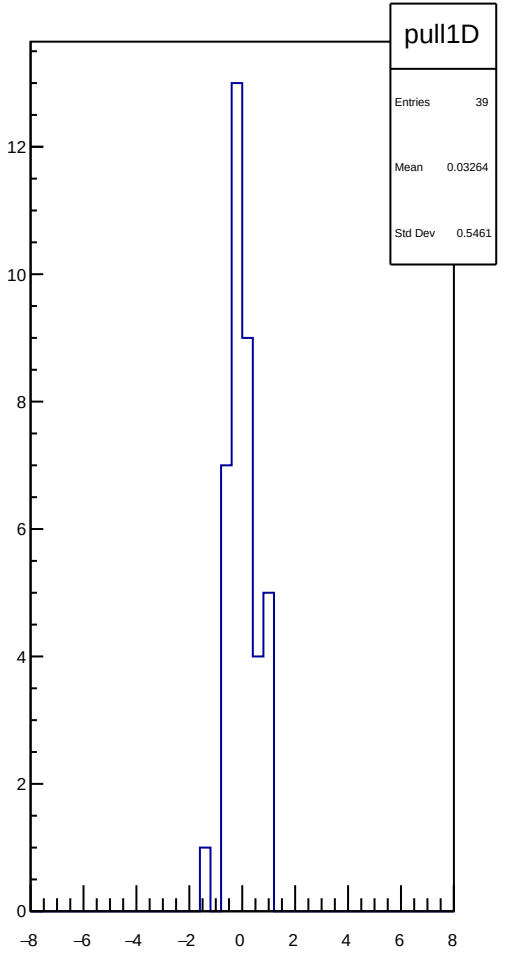

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.744 / 38
p0 −29.63 ± 0.9917
−20
−25
−30
−35
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 80.11
Std Dev 56.38
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 39
Mean −0.0256
Std Dev 0.4151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

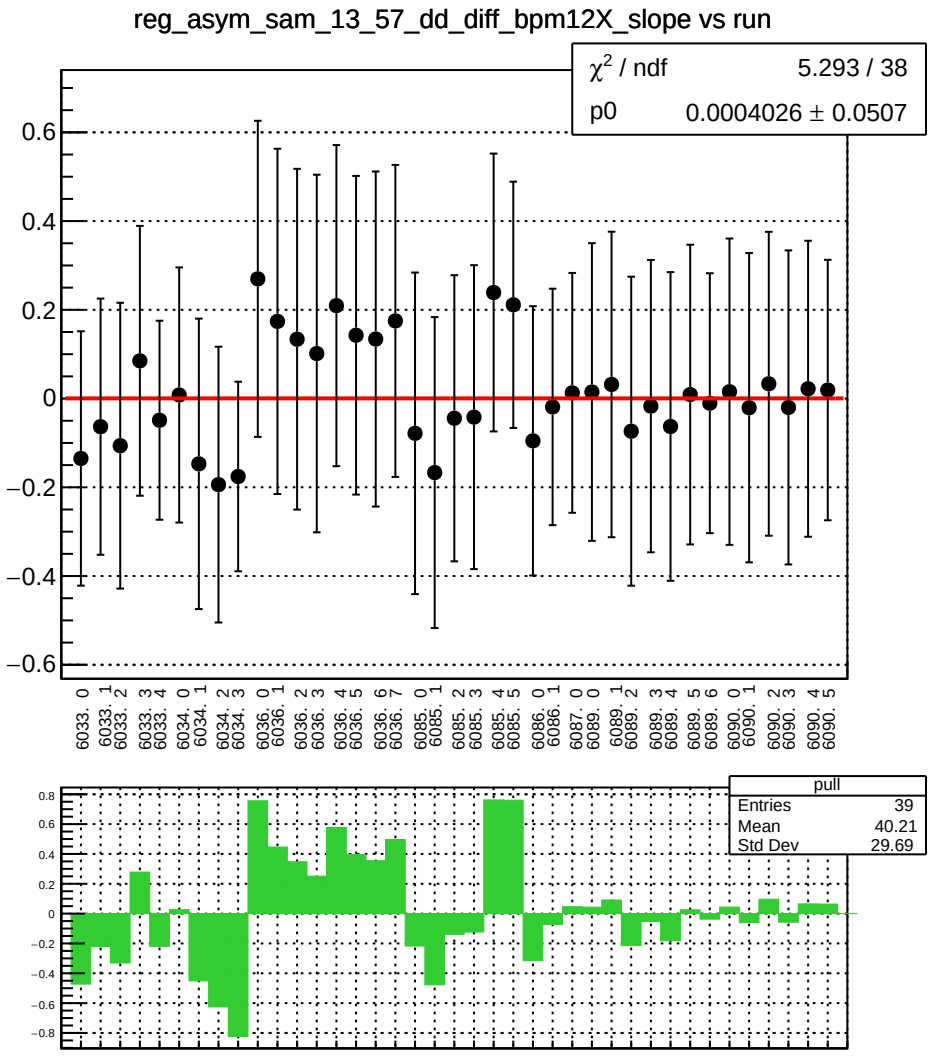

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.545 / 38
p0 −29.13 ± 0.6118
pull
Entries 39
Mean −34.02
Std Dev 58.98
pull1D
Entries 39
Mean −0.02129
Std Dev 0.4091

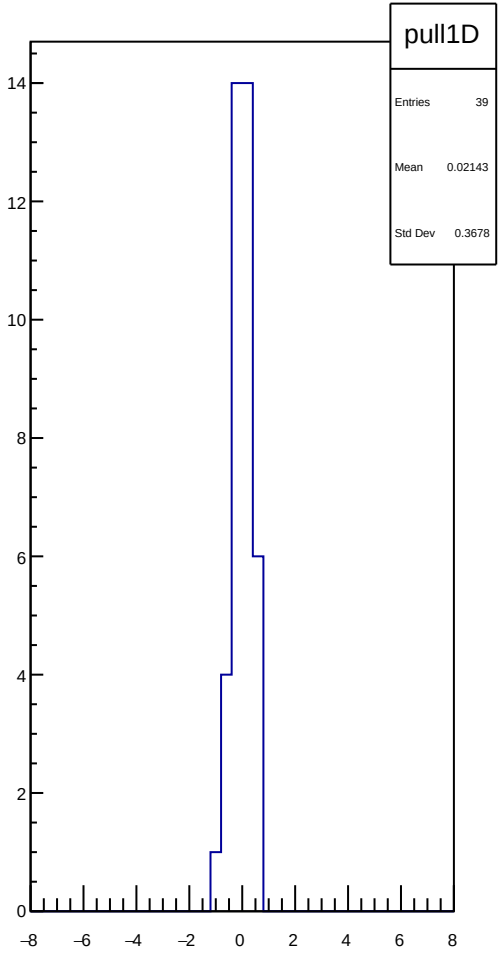

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.016 / 38
p0 9.277 ± 1.108
pull
Entries 39
Mean 90.56
Std Dev 67.66

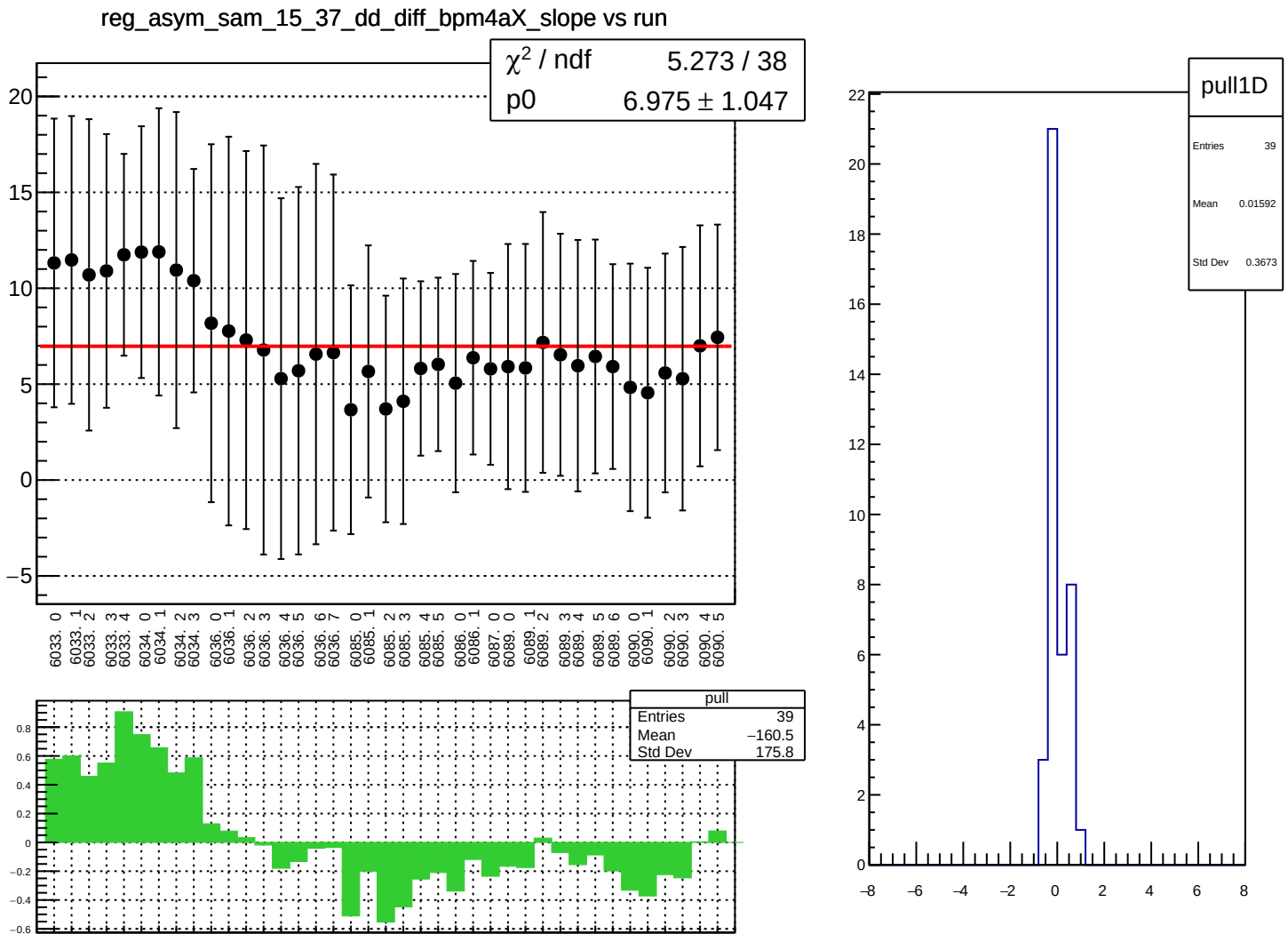

pull1D
Entries 39
Mean 0.0286
Std Dev 0.4525

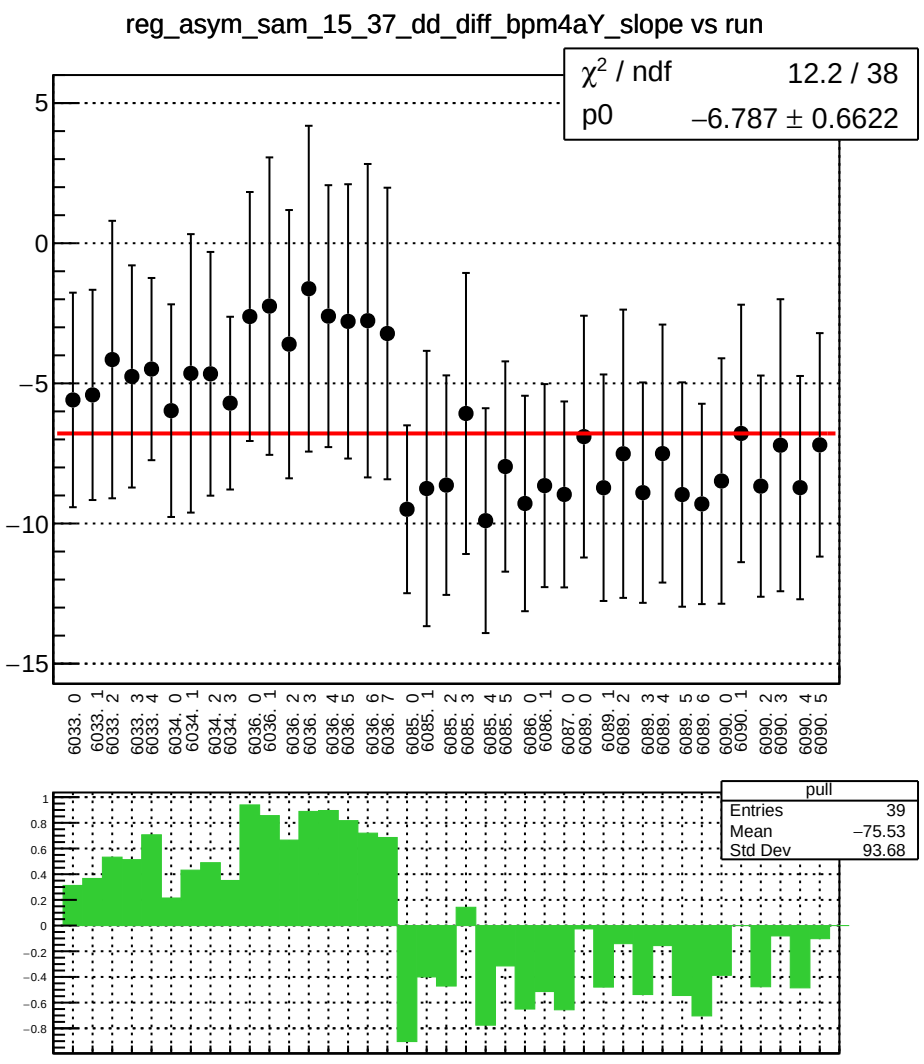

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.67 / 38
p0 −13.18 ± 0.6558
pull
Entries 39
Mean −37.93
Std Dev 62.1

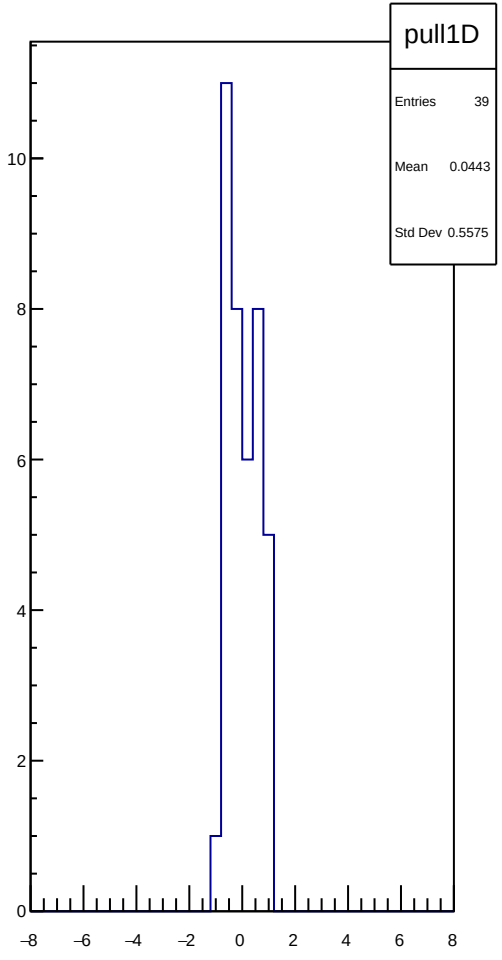

pull1D
Entries 39
Mean 0.03264
Std Dev 0.5461

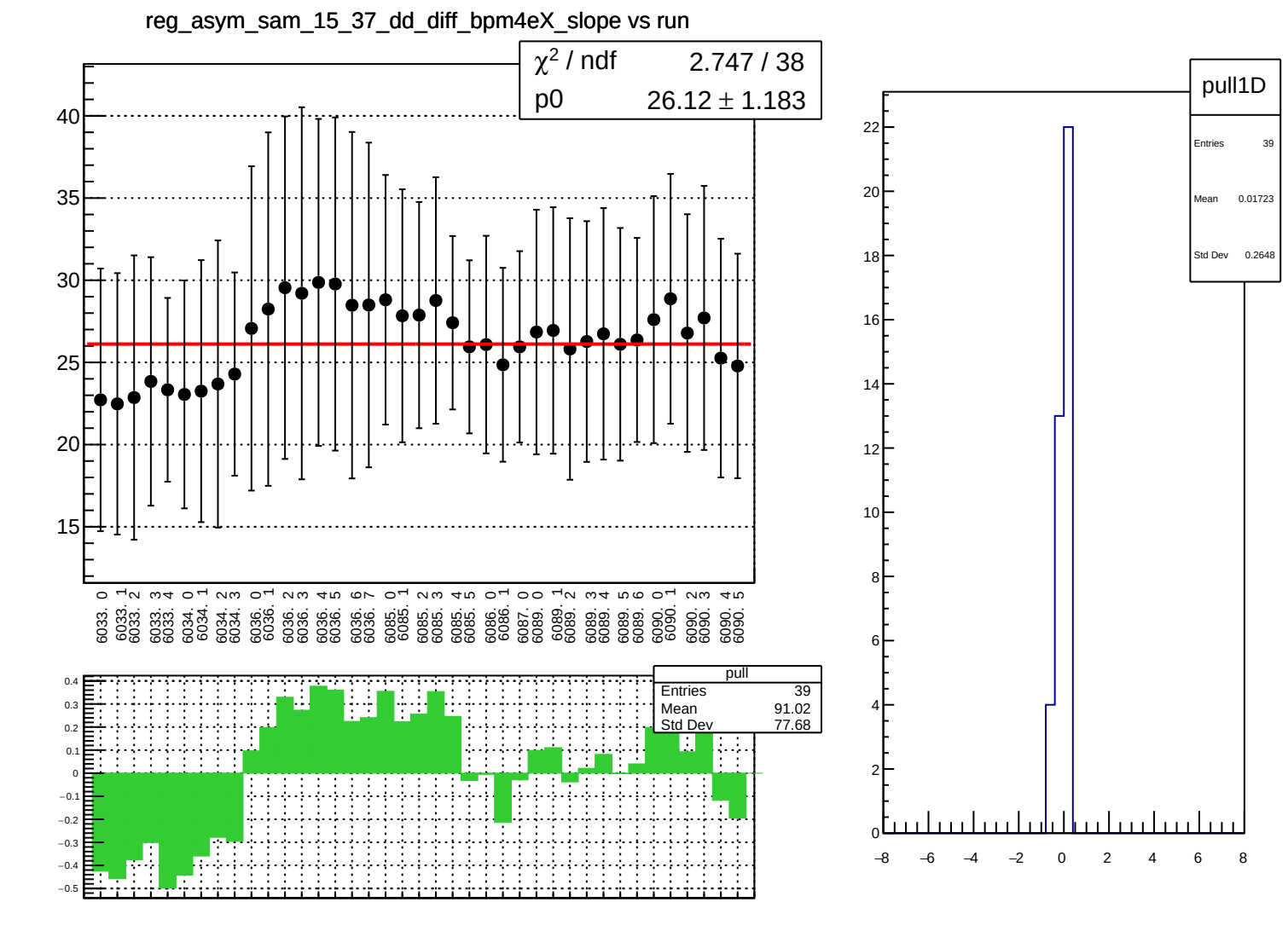

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 5.293 / 38
p0 0.0004026 ± 0.0507
pull
Entries 39
Mean 40.21
Std Dev 29.69

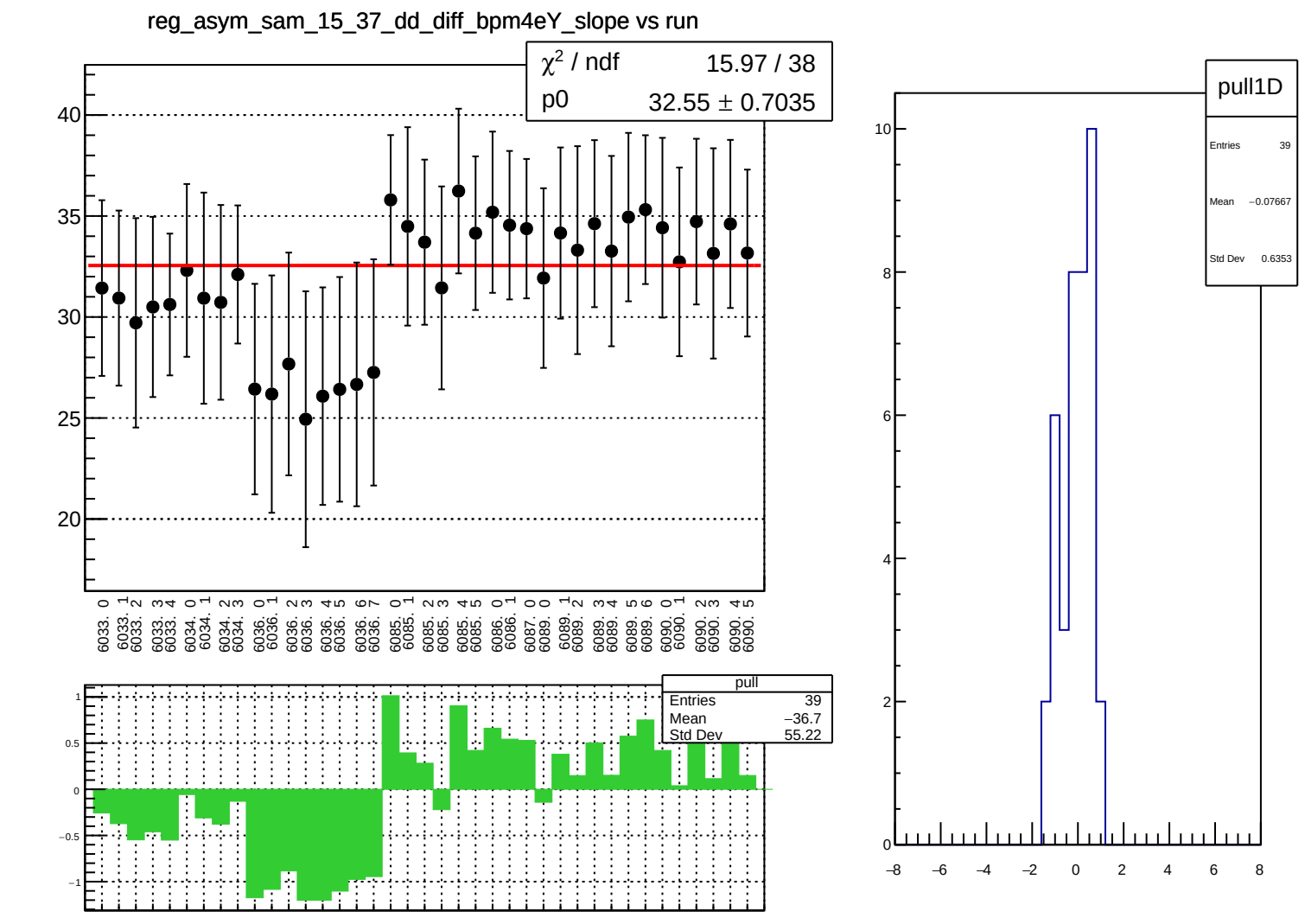

pull1D
Entries 39
Mean 0.02143
Std Dev 0.3678

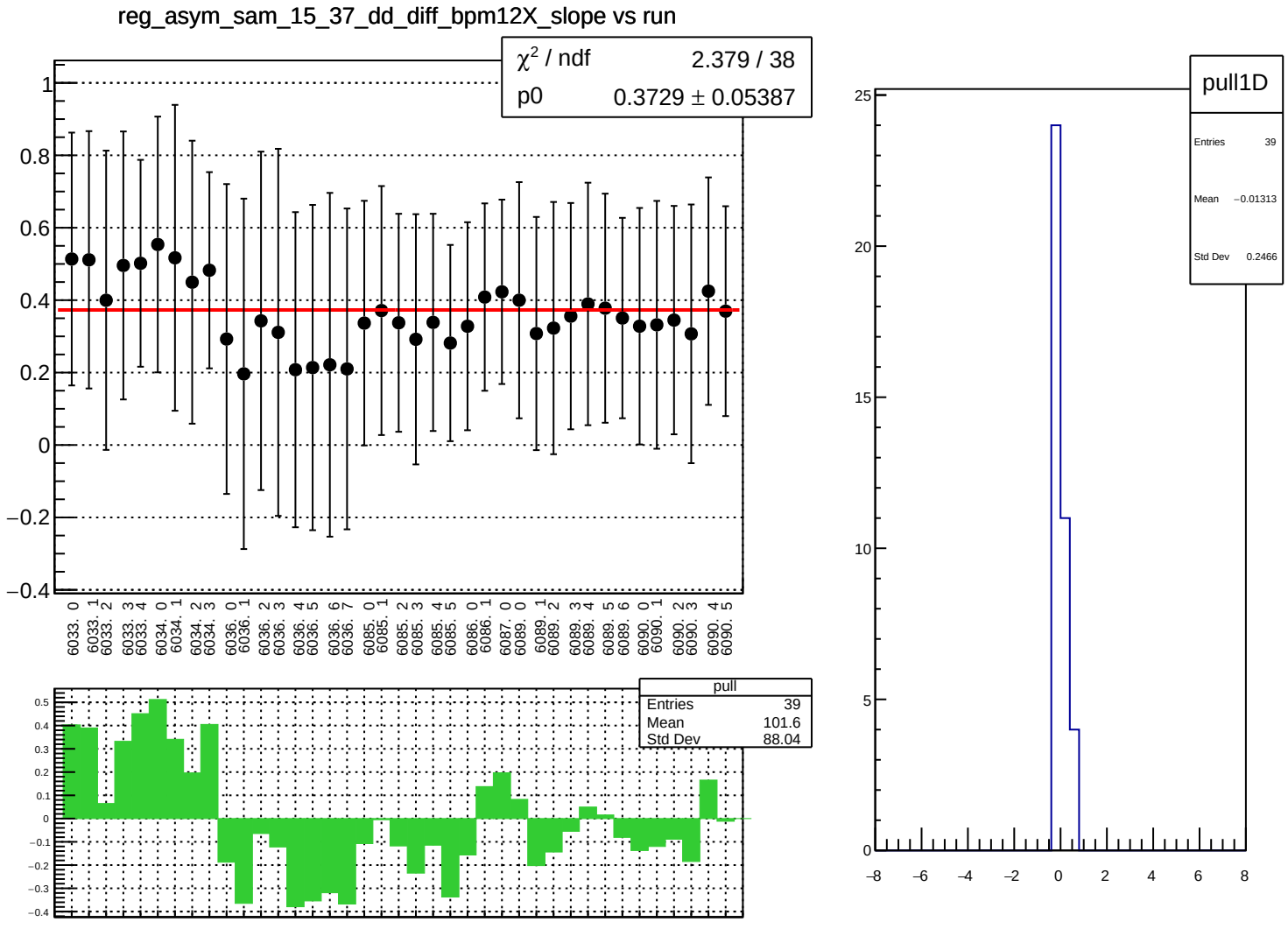

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.273 / 38
p0 6.975 ± 1.047
pull
Entries 39
Mean −160.5
Std Dev 175.8
pull1D
Entries 39
Mean 0.01592
Std Dev 0.3673

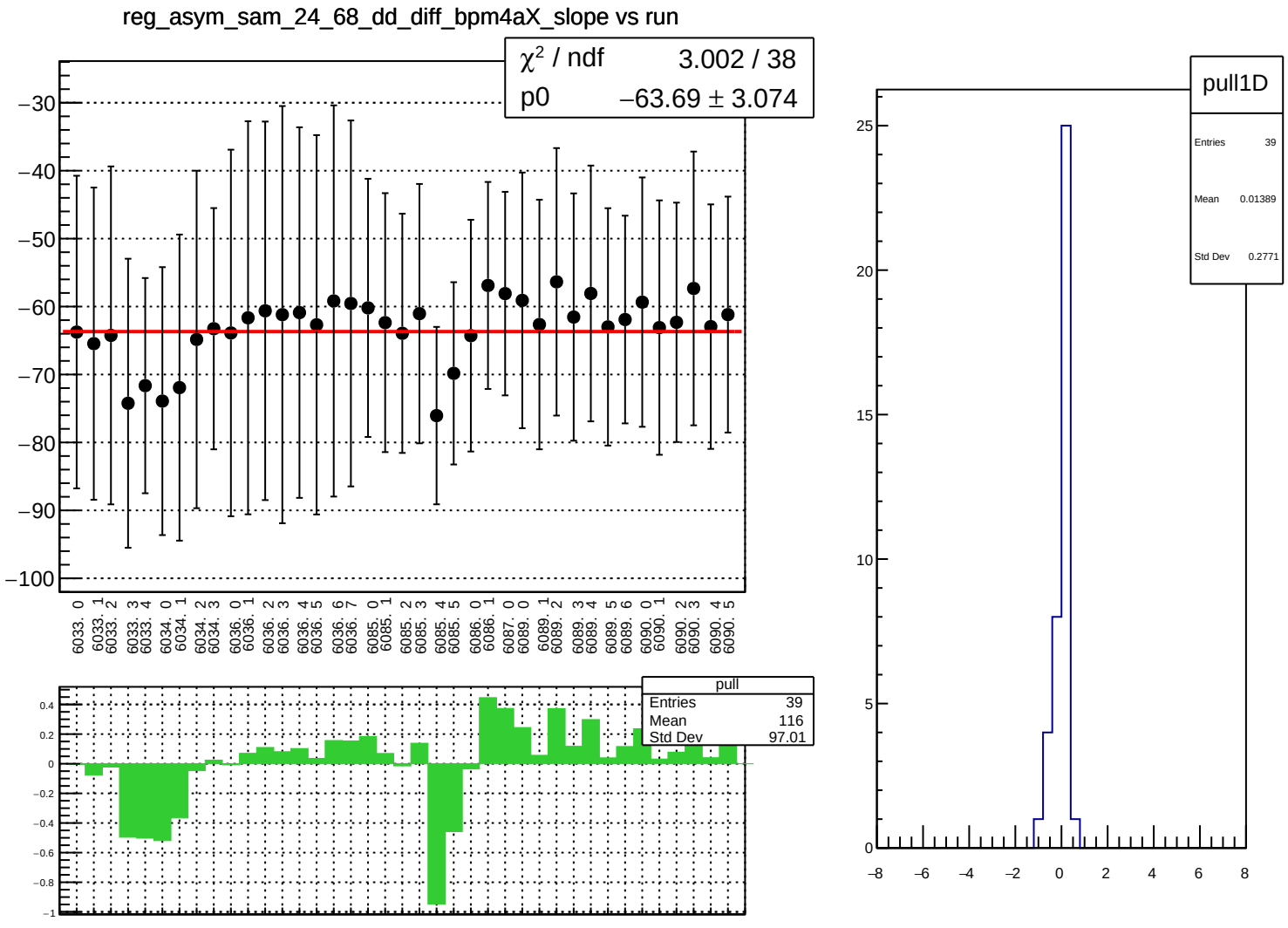

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.2 / 38
p0 −6.787 ± 0.6622
pull
Entries 39
Mean −75.53
Std Dev 93.68

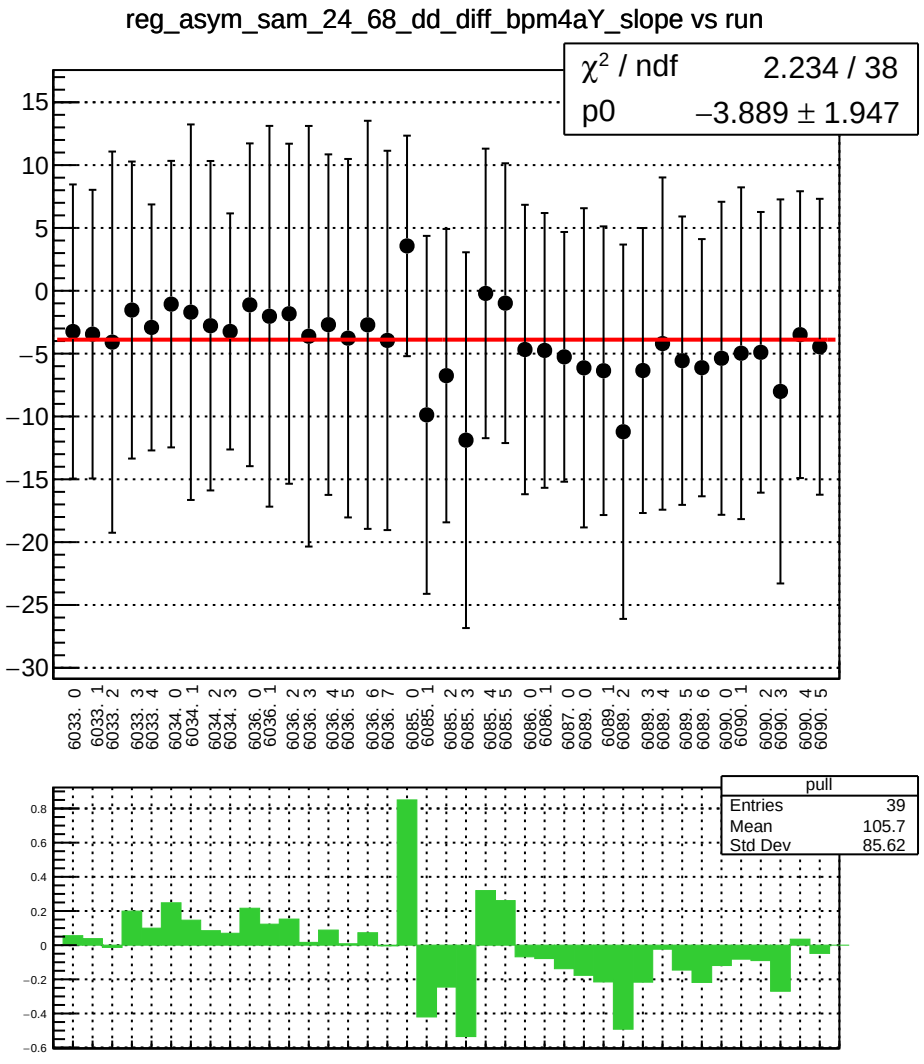

pull1D
Entries 39
Mean 0.0443
Std Dev 0.5575

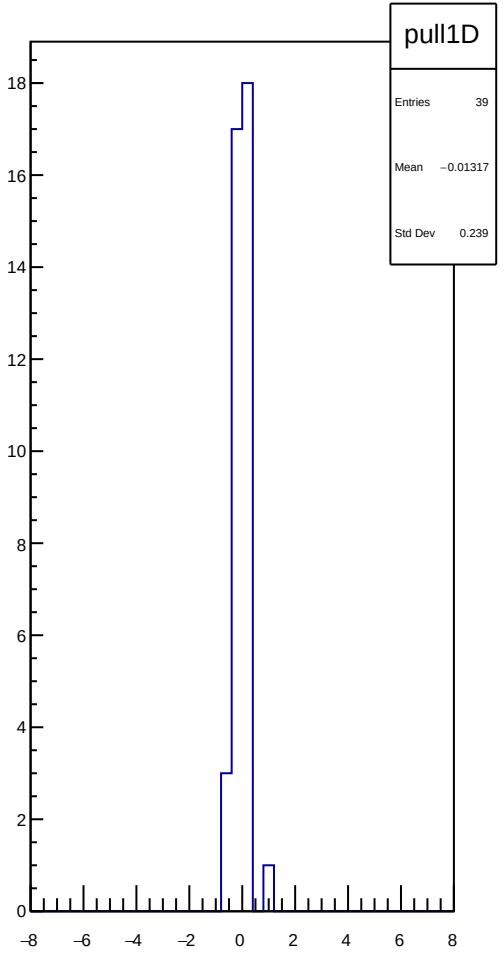

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.747 / 38
p0 26.12 ± 1.183
40
35
30
25
20
15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 91.02
Std Dev 77.68
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 39
Mean 0.01723
Std Dev 0.2648
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

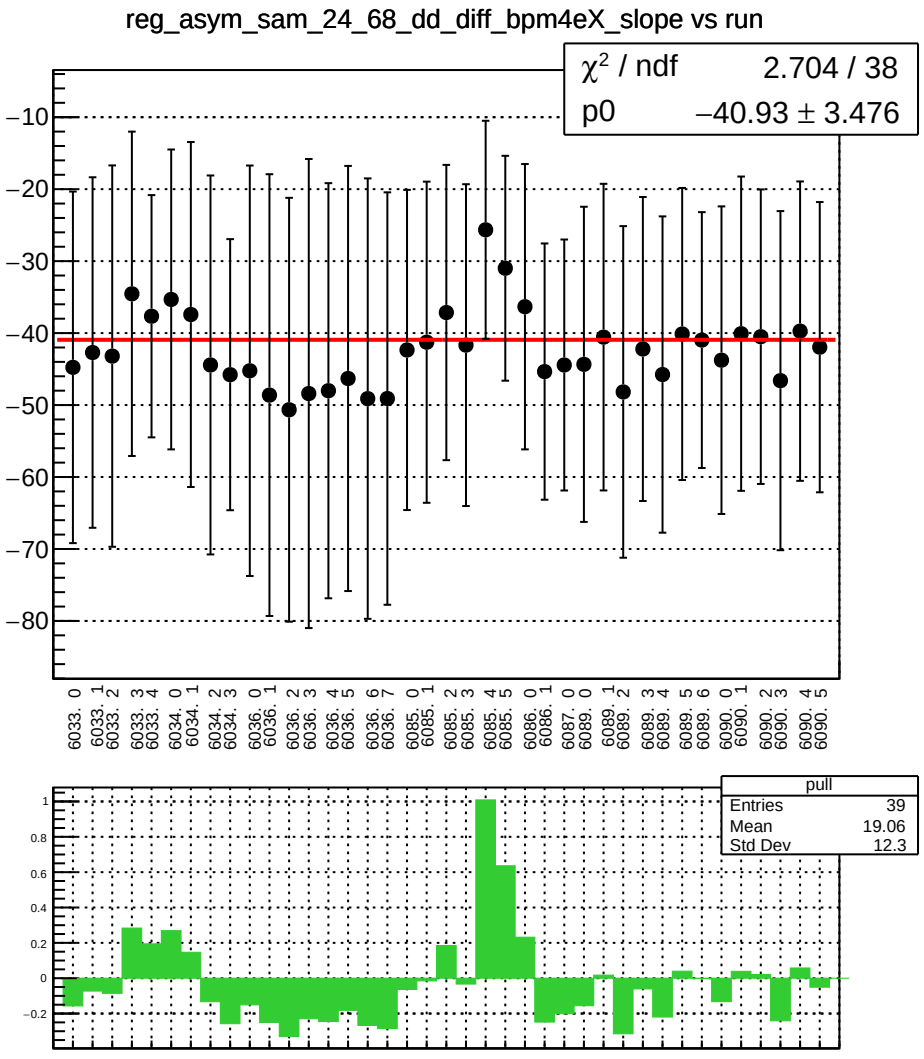

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.97 / 38
p0 32.55 ± 0.7035
40
35
30
25
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −36.7
Std Dev 55.22
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.07667
Std Dev 0.6353
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

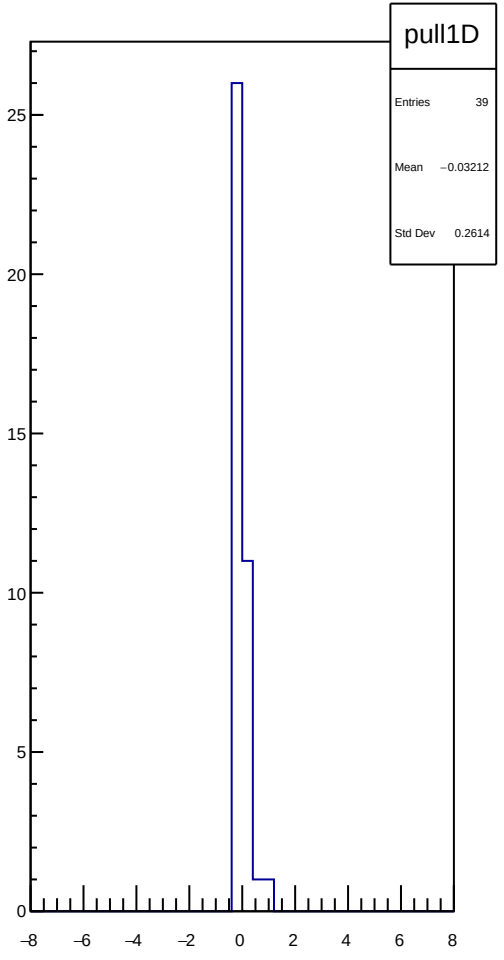

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.379 / 38
p0 0.3729 ± 0.05387
pull
Entries 39
Mean 101.6
Std Dev 88.04
pull1D
Entries 39
Mean −0.01313
Std Dev 0.2466

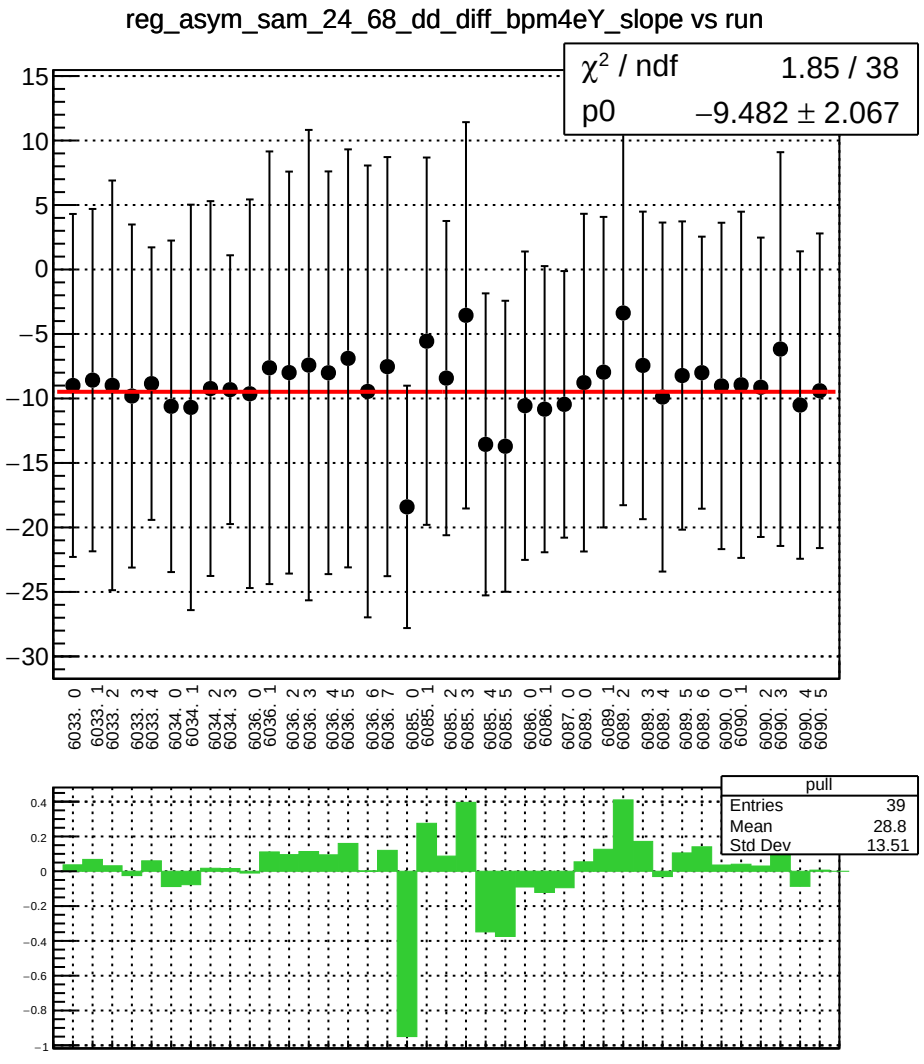

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.002 / 38
p0 −63.69 ± 3.074
pull
Entries 39
Mean 116
Std Dev 97.01
pull1D
Entries 39
Mean 0.01389
Std Dev 0.2771

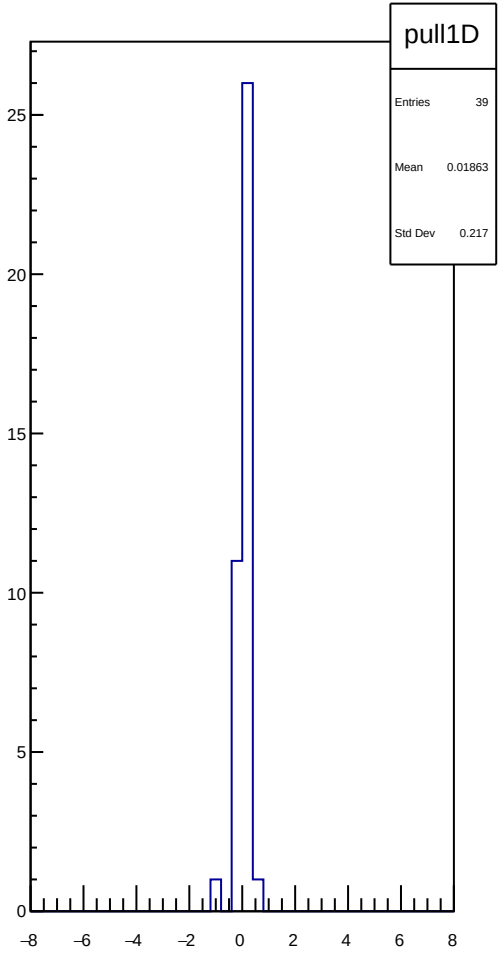

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.234 / 38
p0 −3.889 ± 1.947
pull
Entries 39
Mean 105.7
Std Dev 85.62

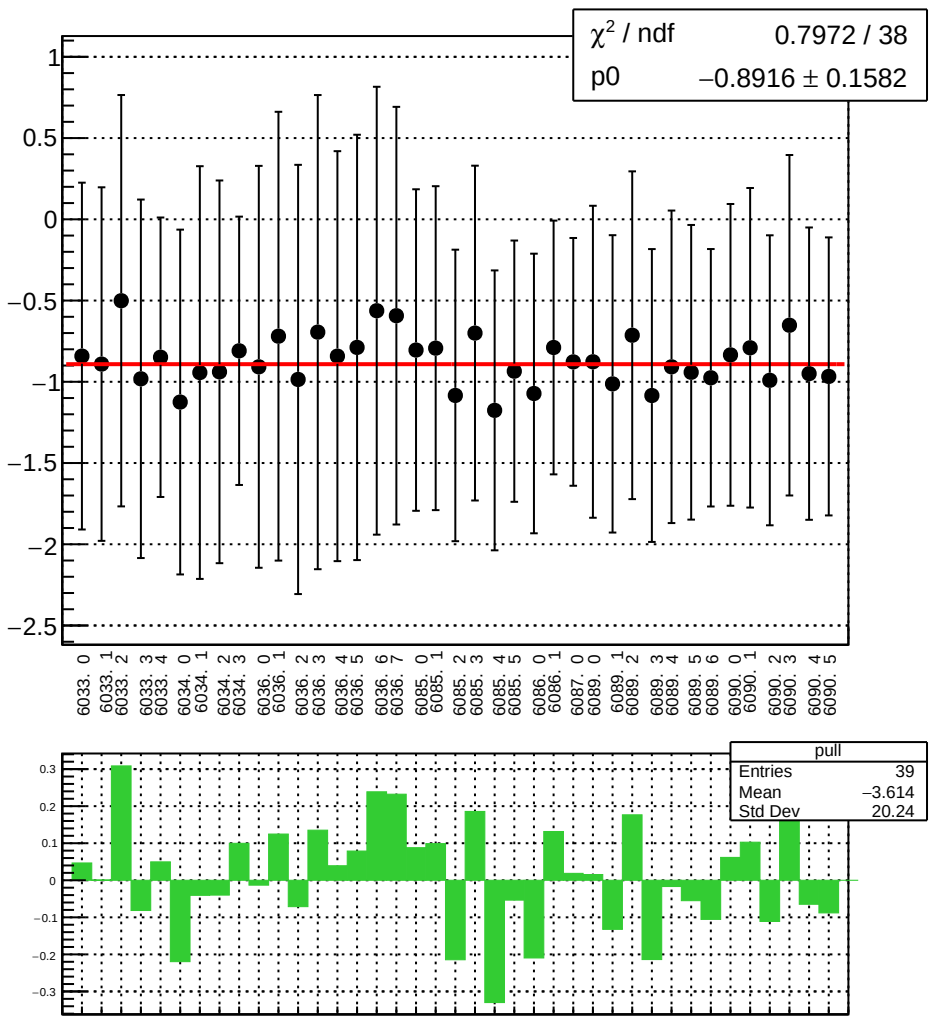

pull1D
Entries 39
Mean −0.01317
Std Dev 0.239

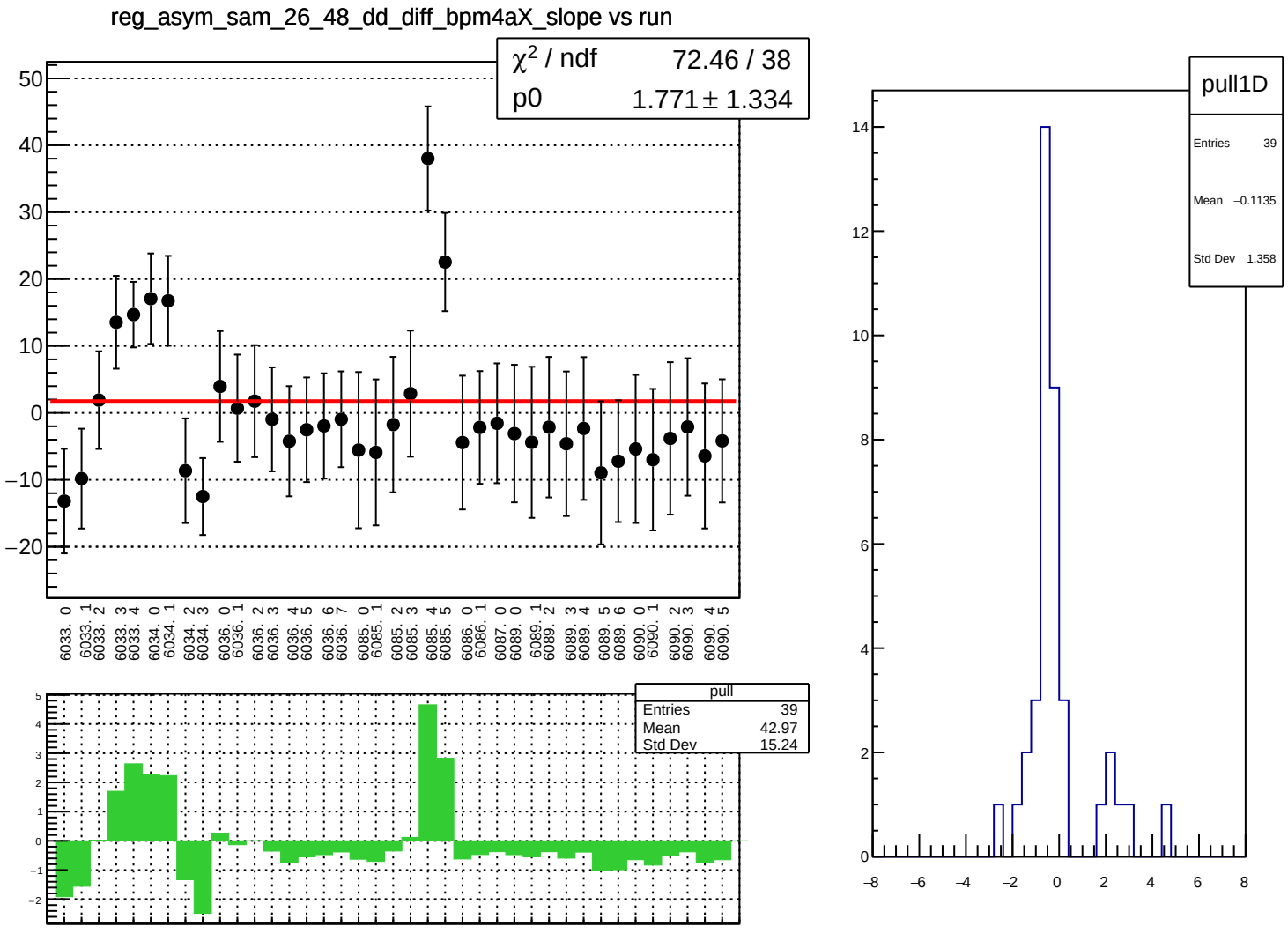

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.704 / 38
p0 −40.93 ± 3.476
pull
Entries 39
Mean 19.06
Std Dev 12.3

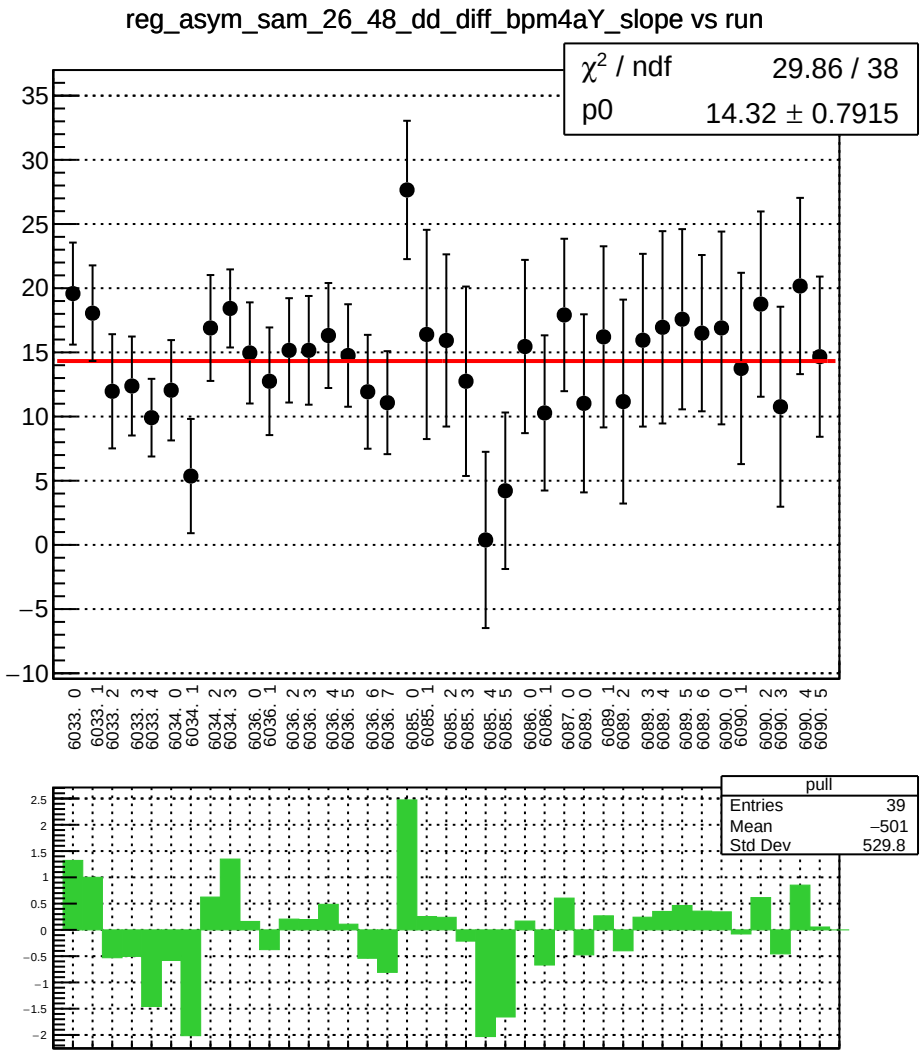

pull1D
Entries 39
Mean −0.03212
Std Dev 0.2614

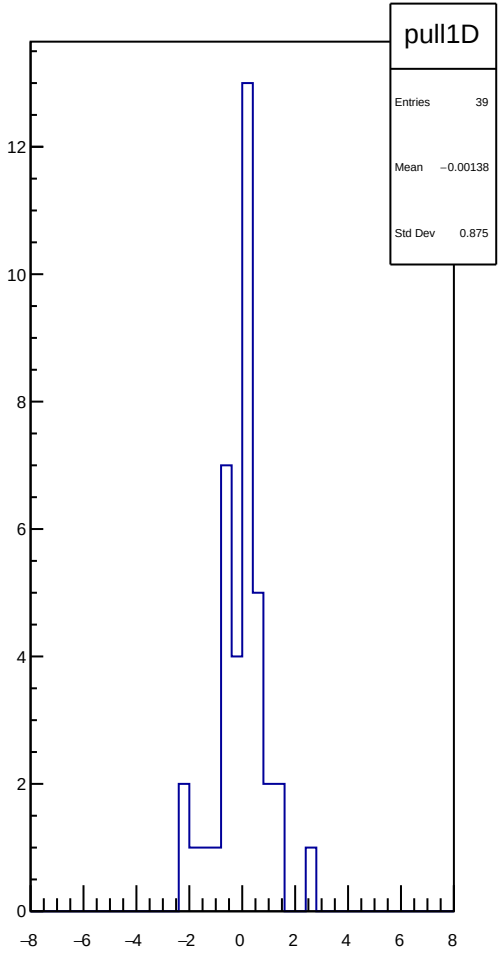

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.85 / 38
p0 −9.482 ± 2.067
pull
Entries 39
Mean 28.8
Std Dev 13.51

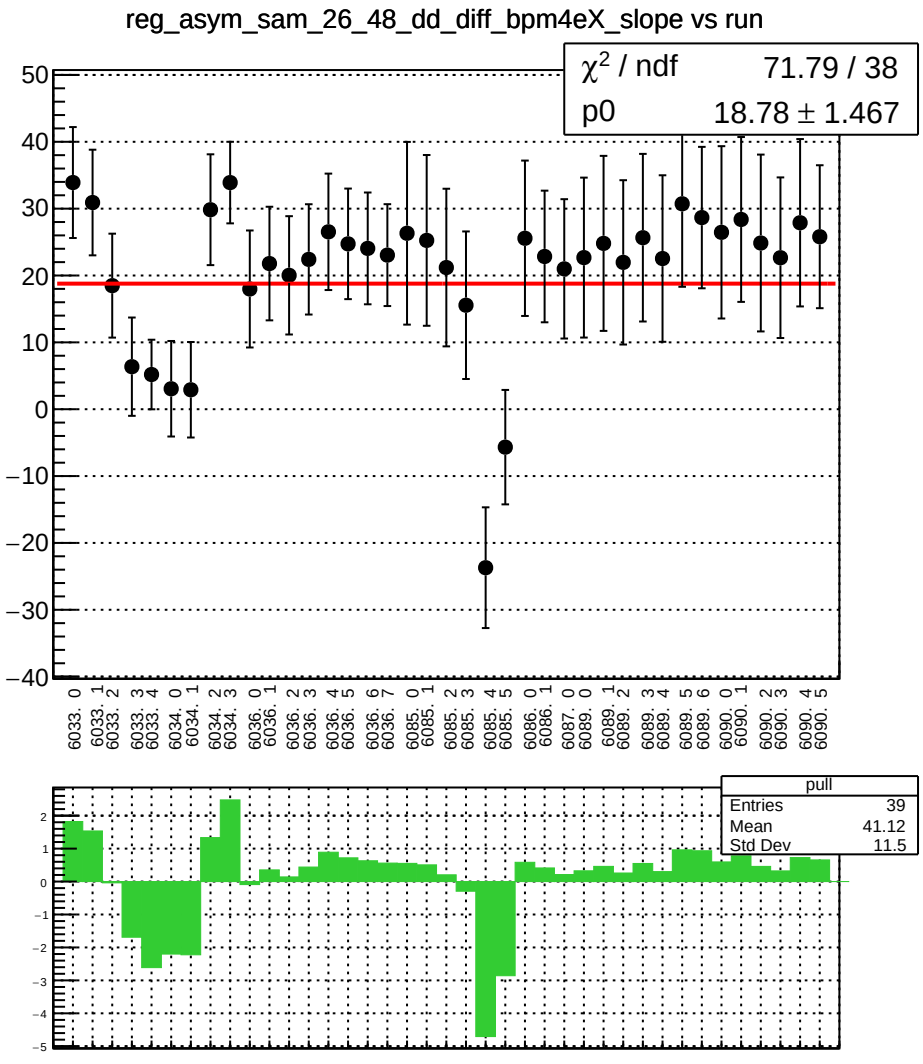

pull1D
Entries 39
Mean 0.01863
Std Dev 0.217

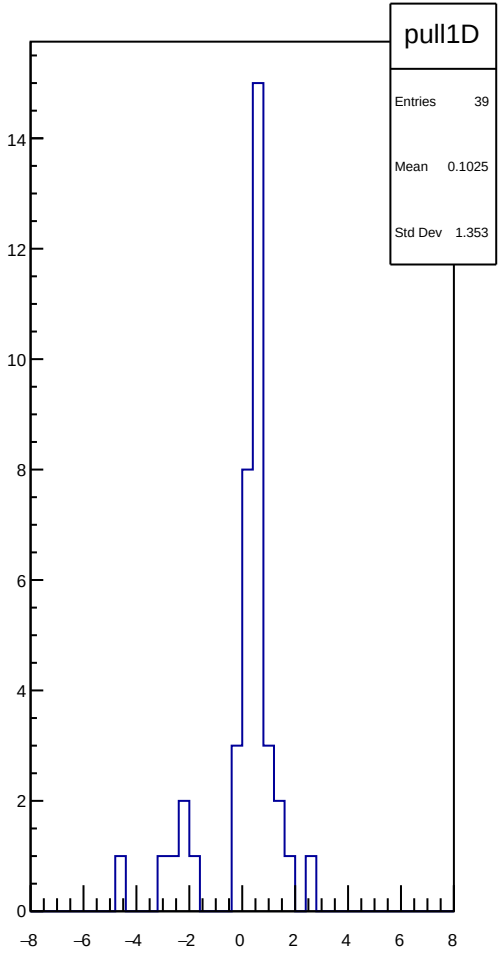

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7972 / 38
p0 −0.8916 ± 0.1582
pull
Entries 39
Mean −3.614
Std Dev 20.24
pull1D
Entries 39
Mean 0.01028
Std Dev 0.1426

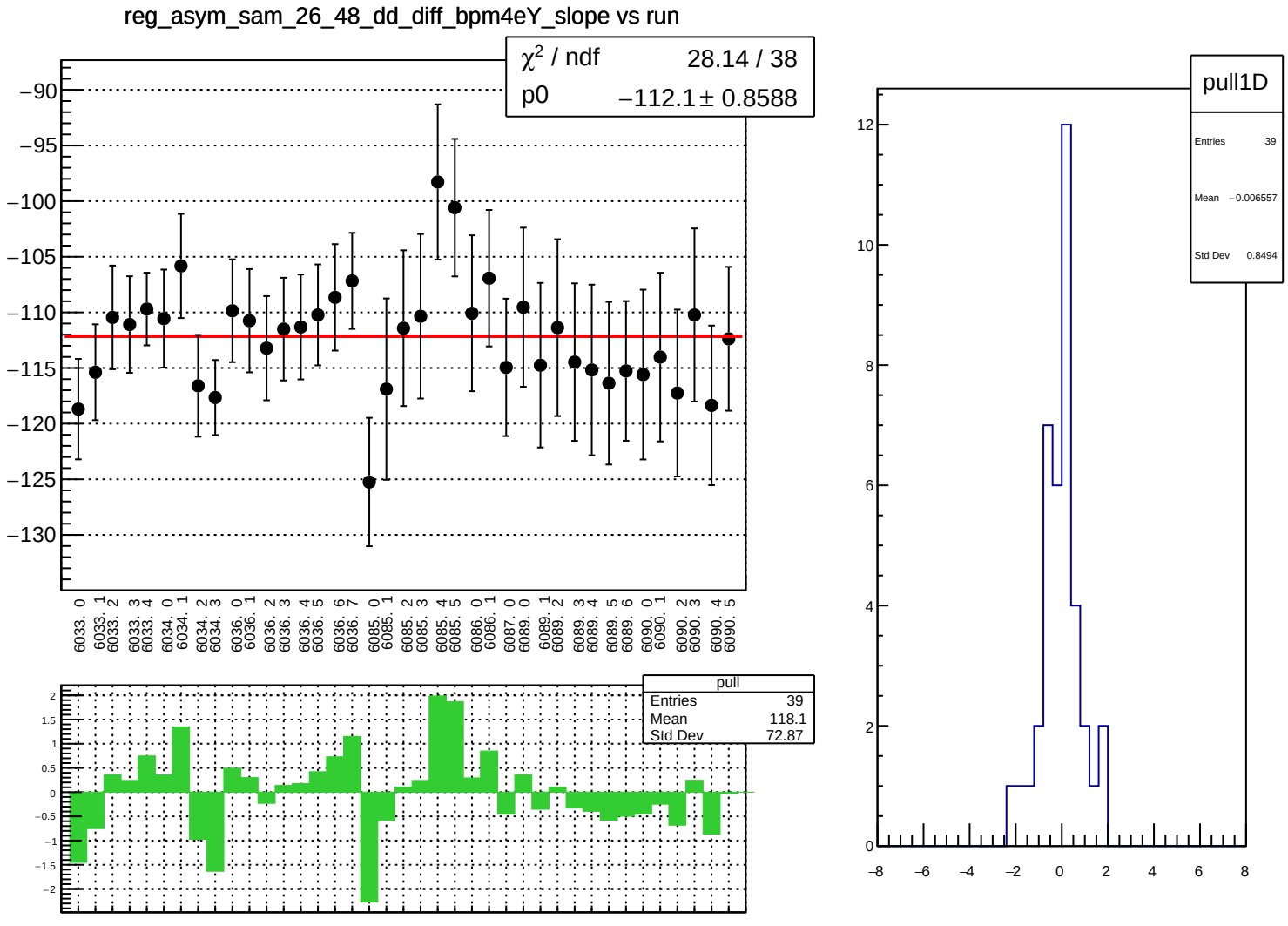

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 72.46 / 38
p0 1.771 ± 1.334
pull
Entries 39
Mean 42.97
Std Dev 15.24
pull1D
Entries 39
Mean −0.1135
Std Dev 1.358

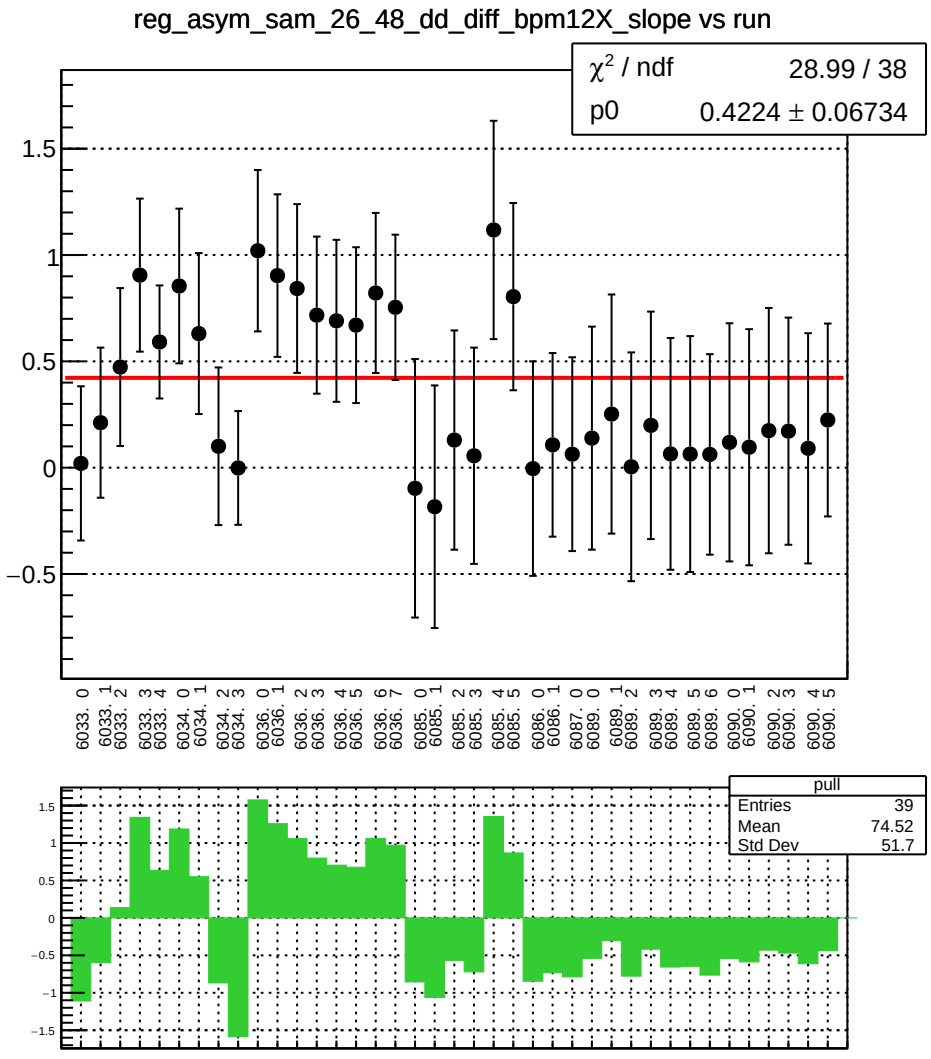

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.86 / 38
p0 14.32 ± 0.7915
pull
Entries 39
Mean −501
Std Dev 529.8

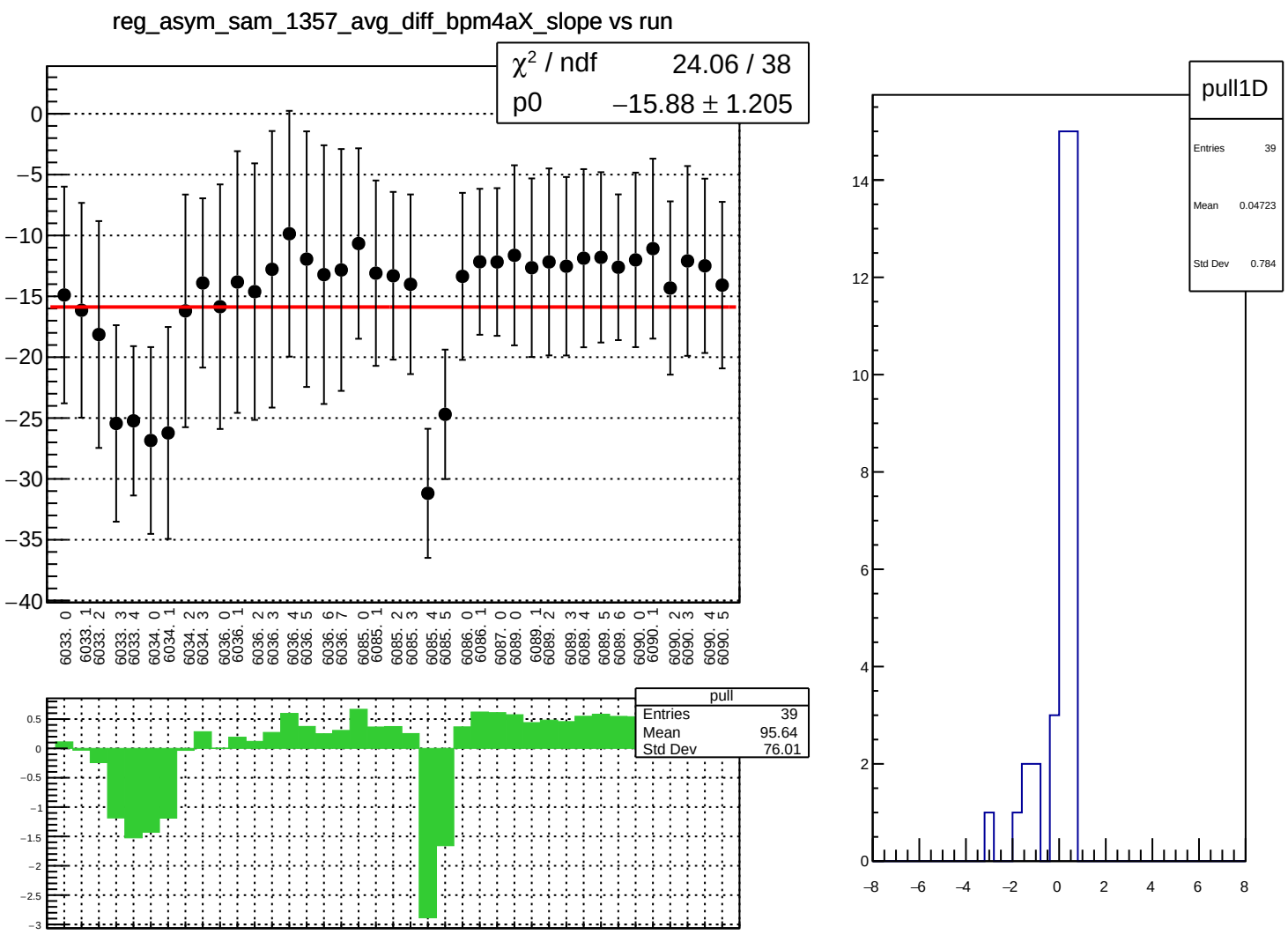

pull1D
Entries 39
Mean −0.00138
Std Dev 0.875

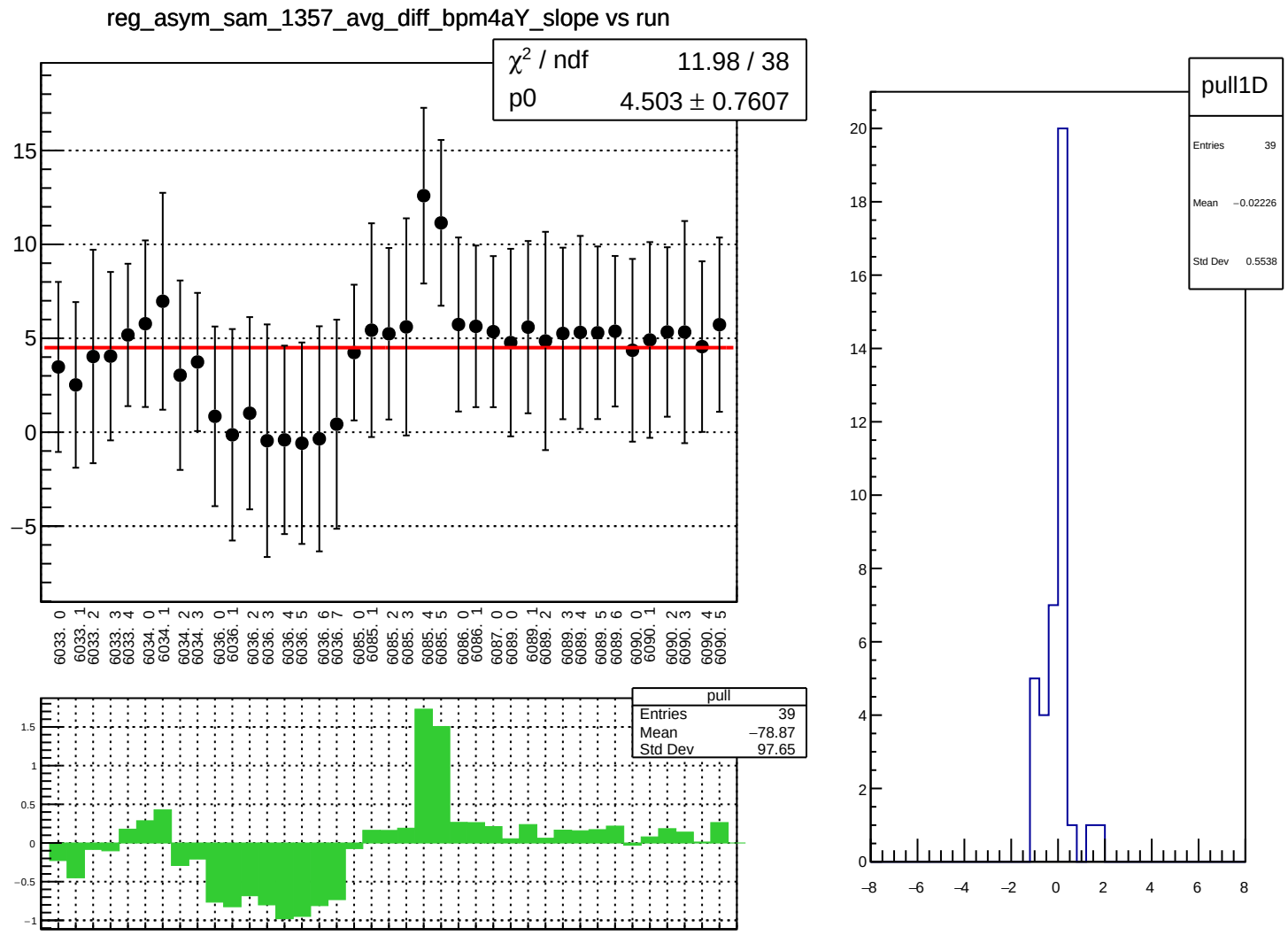

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.79 / 38
p0 18.78 ± 1.467
pull
Entries 39
Mean 41.12
Std Dev 11.5

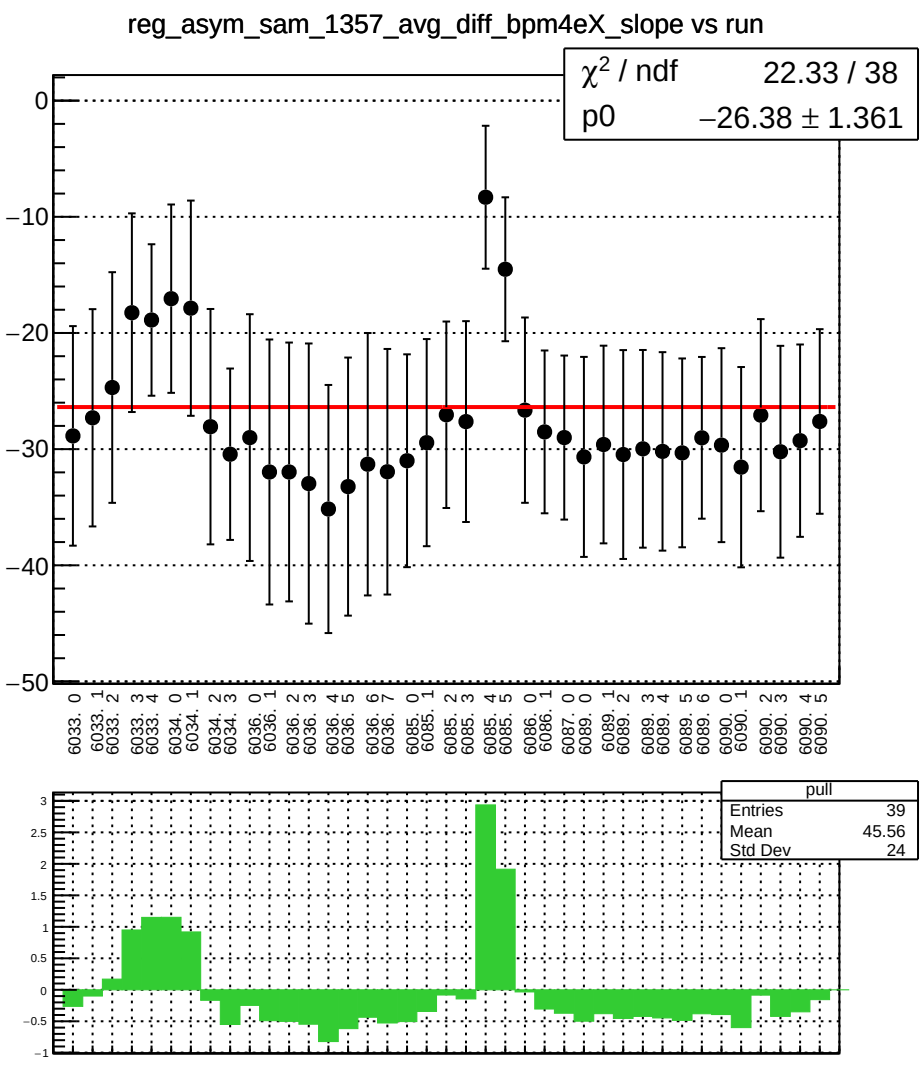

pull1D
Entries 39
Mean 0.1025
Std Dev 1.353

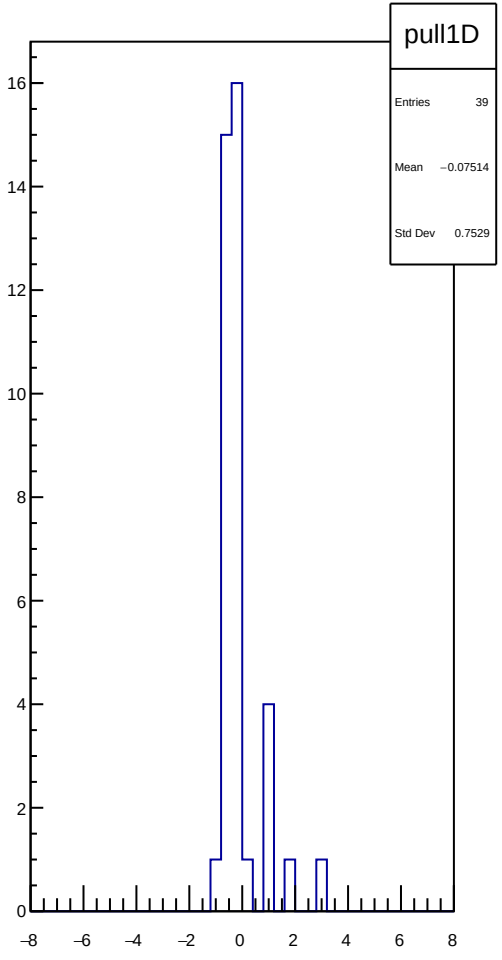

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.14 / 38
p0 −112.1 ± 0.8588
−90
−95
−100
−105
−110
−115
−120
−125
−130
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 118.1
Std Dev 72.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.006557
Std Dev 0.8494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

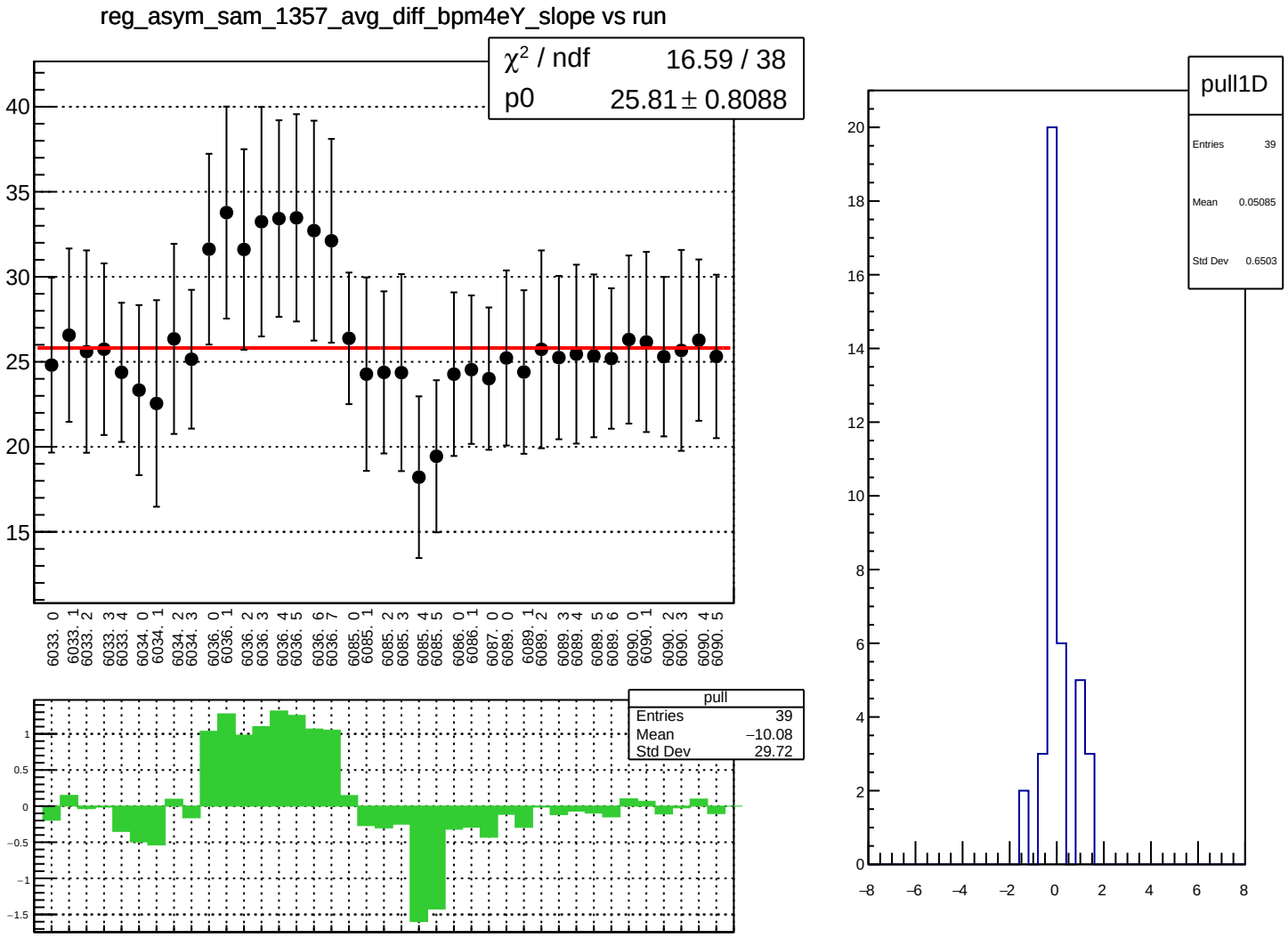

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 28.99 / 38
p0 0.4224 ± 0.06734
1.5
1
0.5
0
−0.5
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 74.52
Std Dev 51.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.07016
Std Dev 0.8593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

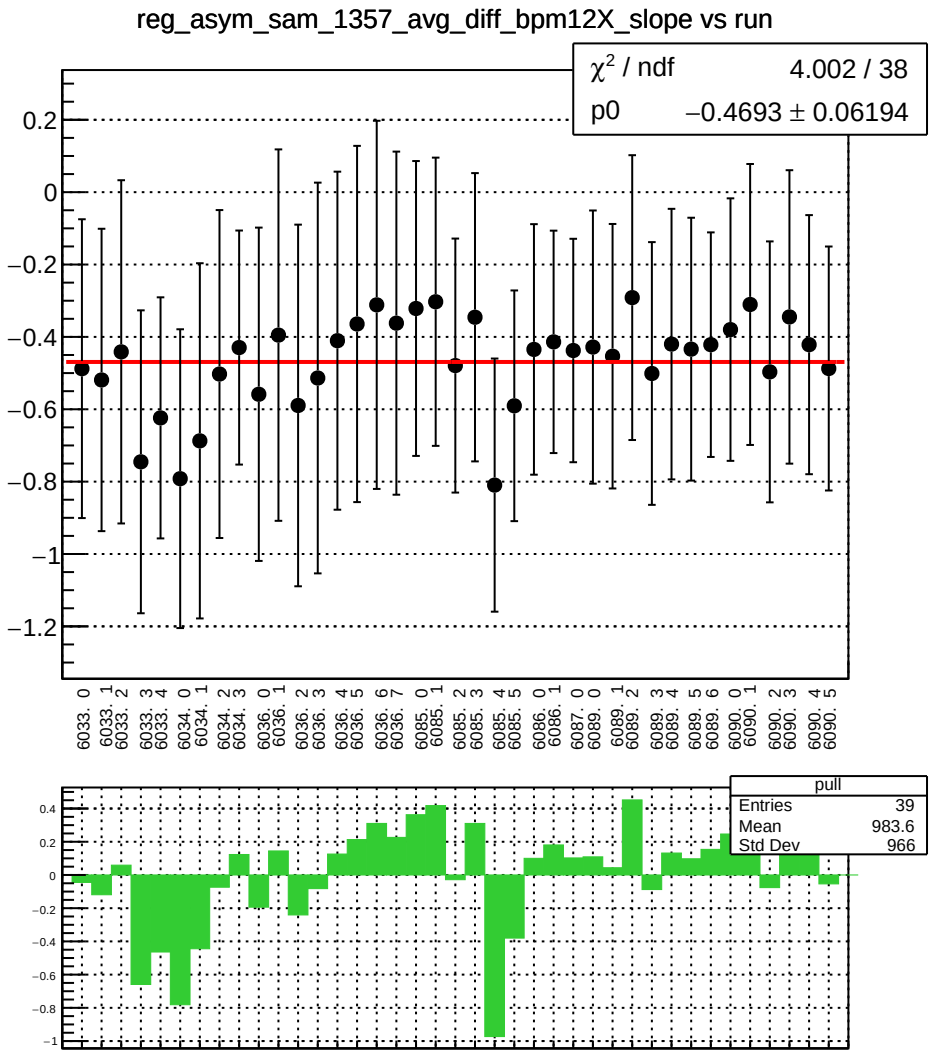

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.06 / 38
p0 −15.88 ± 1.205
pull
Entries 39
Mean 95.64
Std Dev 76.01
pull1D
Entries 39
Mean 0.04723
Std Dev 0.784

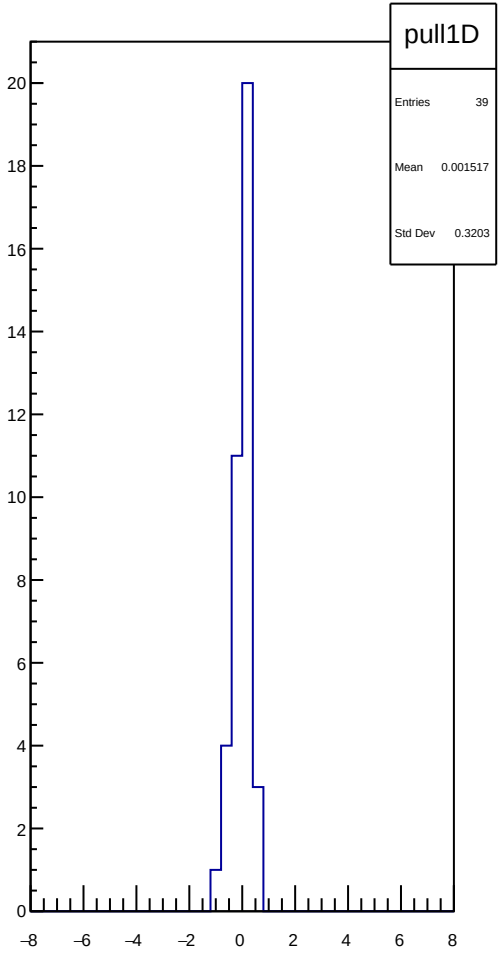

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.98 / 38
p0 4.503 ± 0.7607
pull
Entries 39
Mean −78.87
Std Dev 97.65
pull1D
Entries 39
Mean −0.02226
Std Dev 0.5538

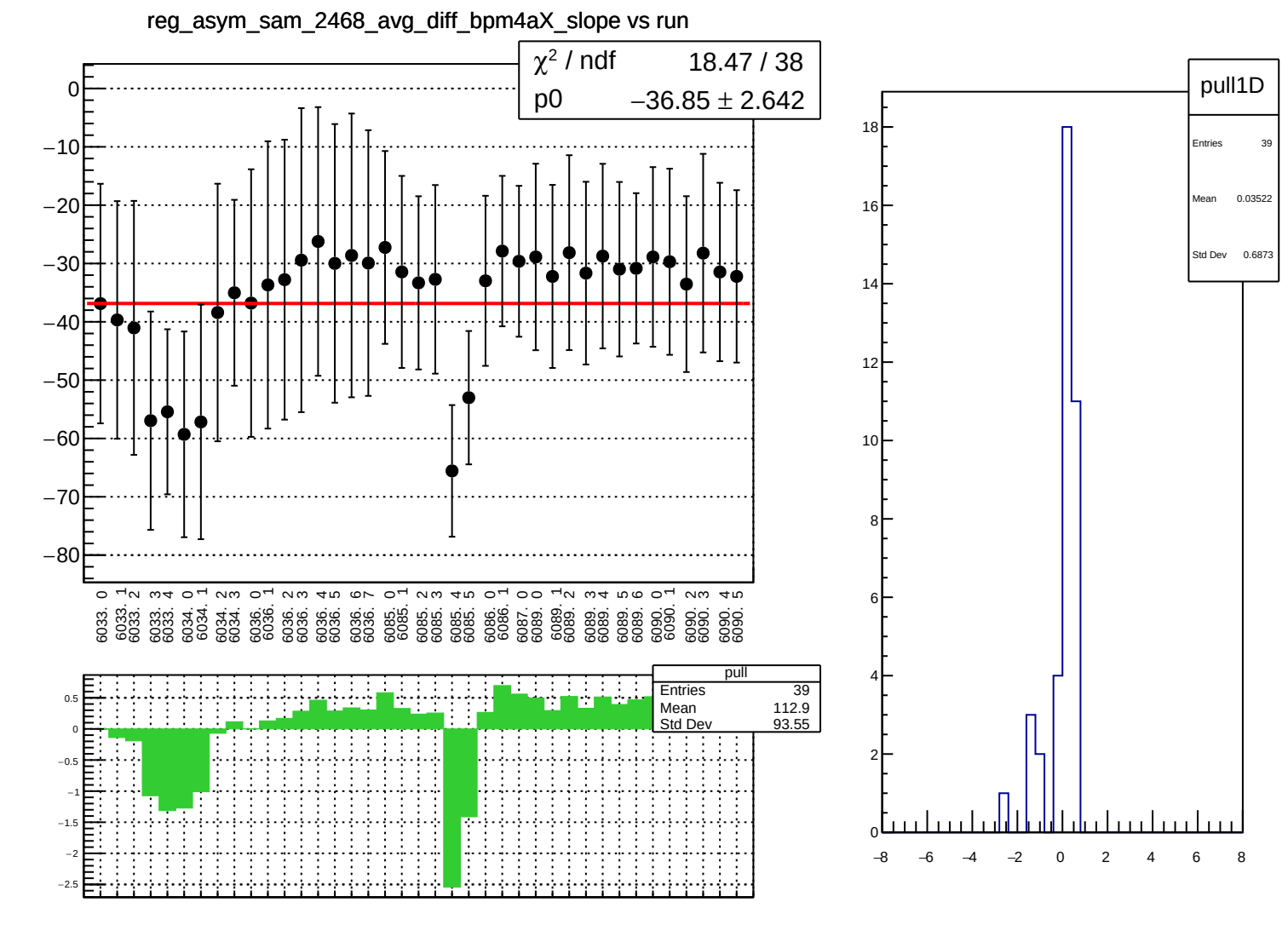

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.33 / 38
p0 −26.38 ± 1.361
pull
Entries 39
Mean 45.56
Std Dev 24

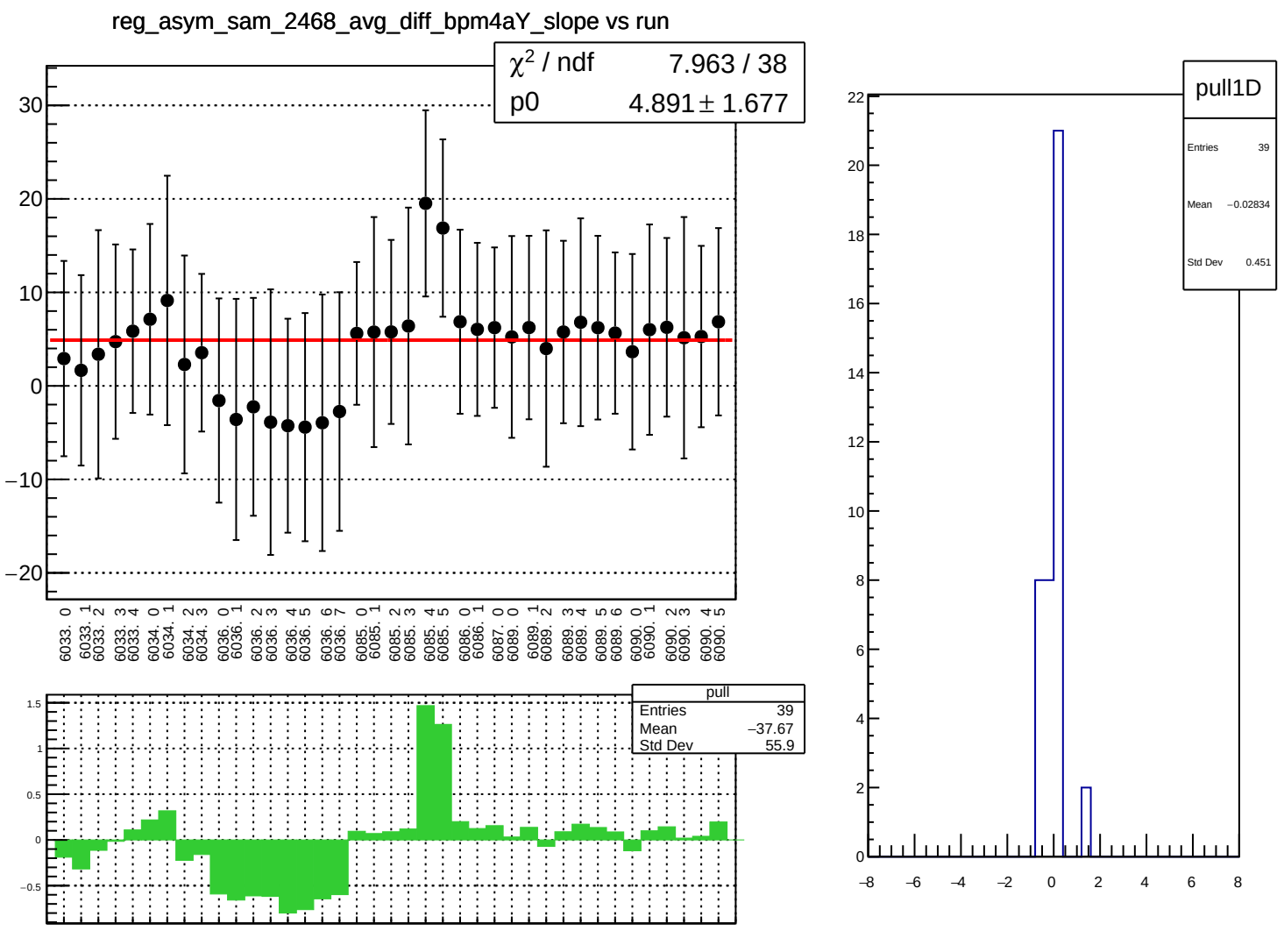

pull1D
Entries 39
Mean −0.07514
Std Dev 0.7529

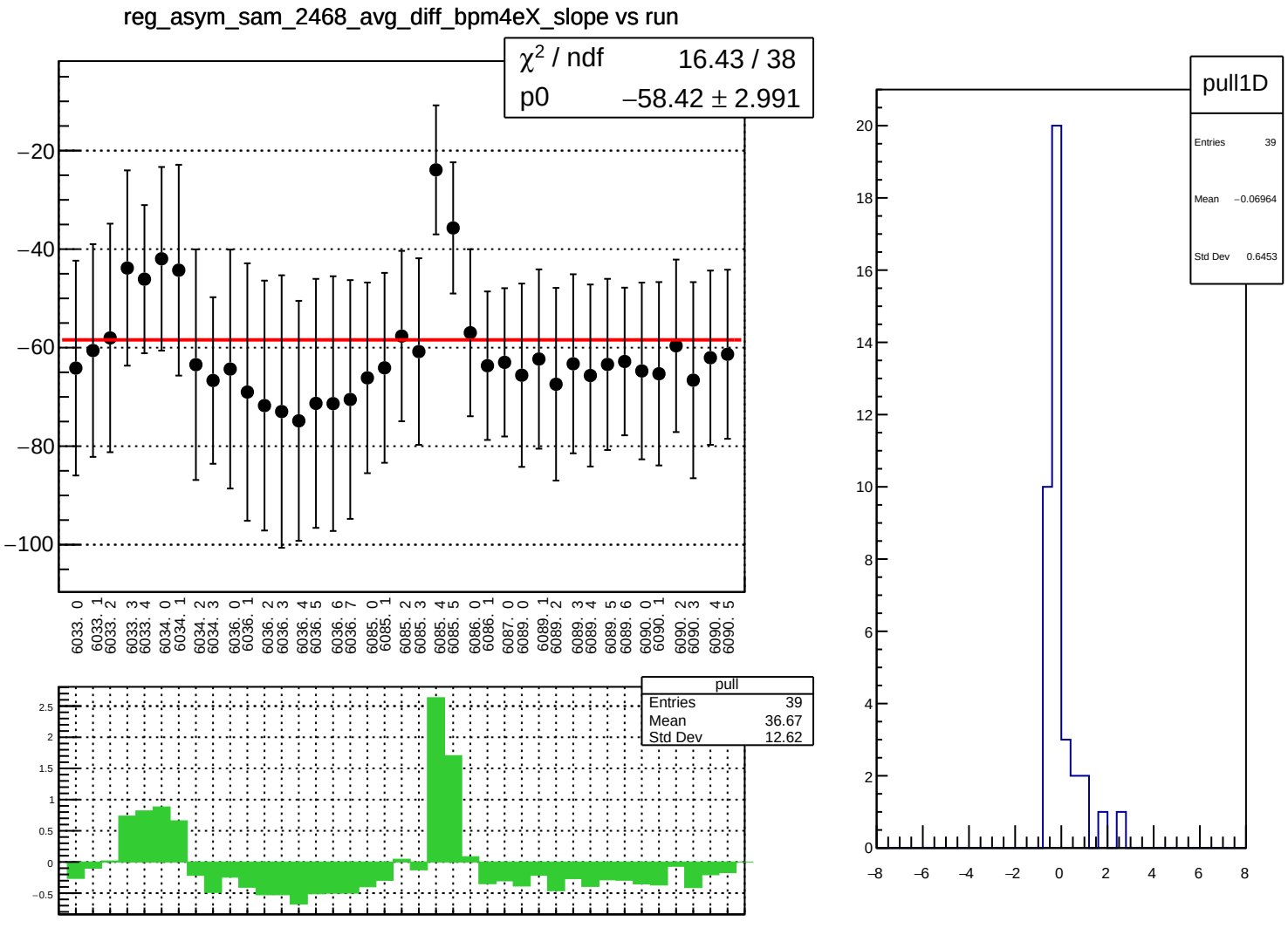

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.59 / 38
p0 25.81 ± 0.8088
40
35
30
25
20
15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −10.08
Std Dev 29.72
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.05085
Std Dev 0.6503
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

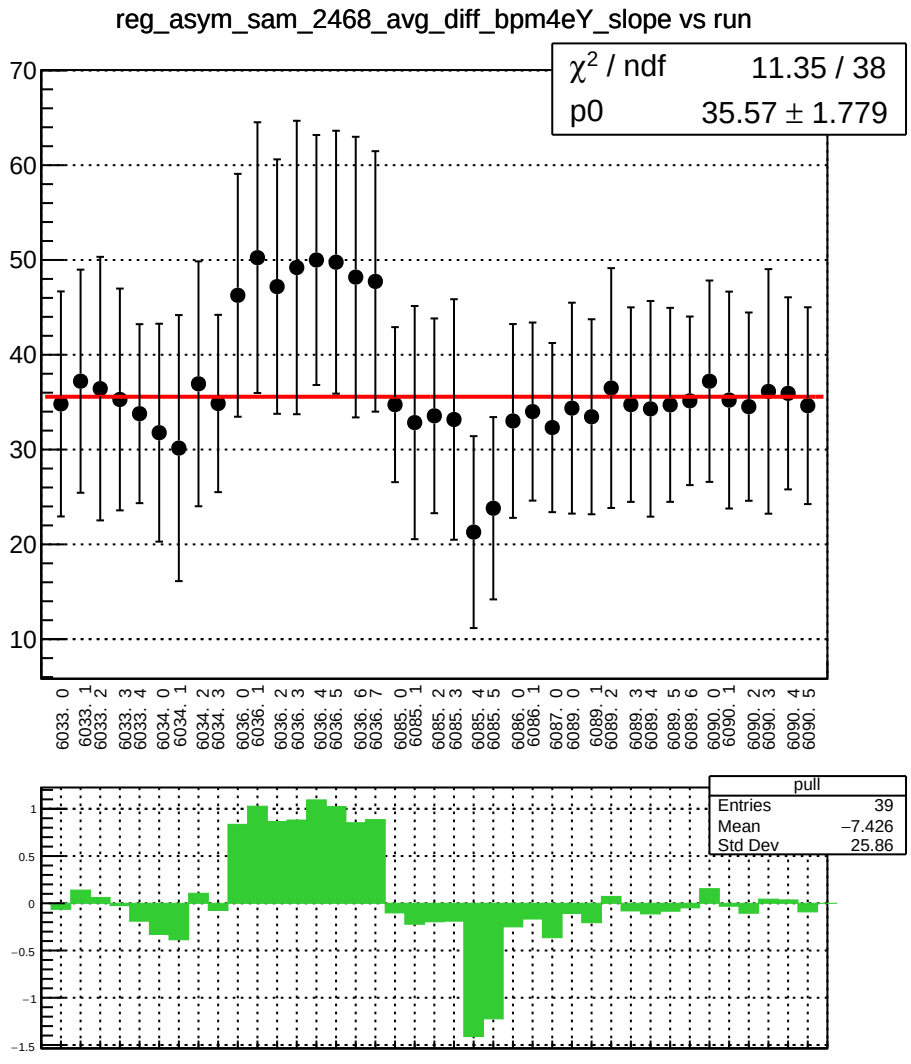

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 4.002 / 38
p0 −0.4693 ± 0.06194
pull
Entries 39
Mean 983.6
Std Dev 966

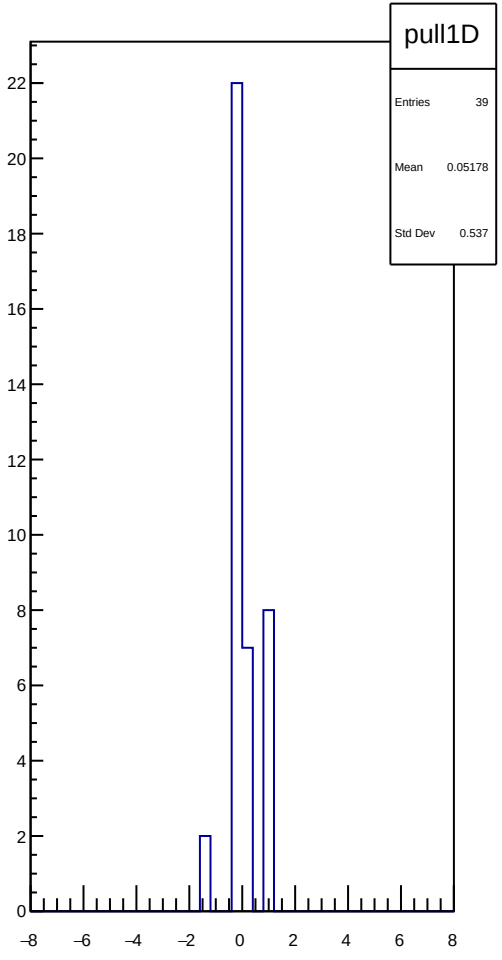

pull1D
Entries 39
Mean 0.001517
Std Dev 0.3203

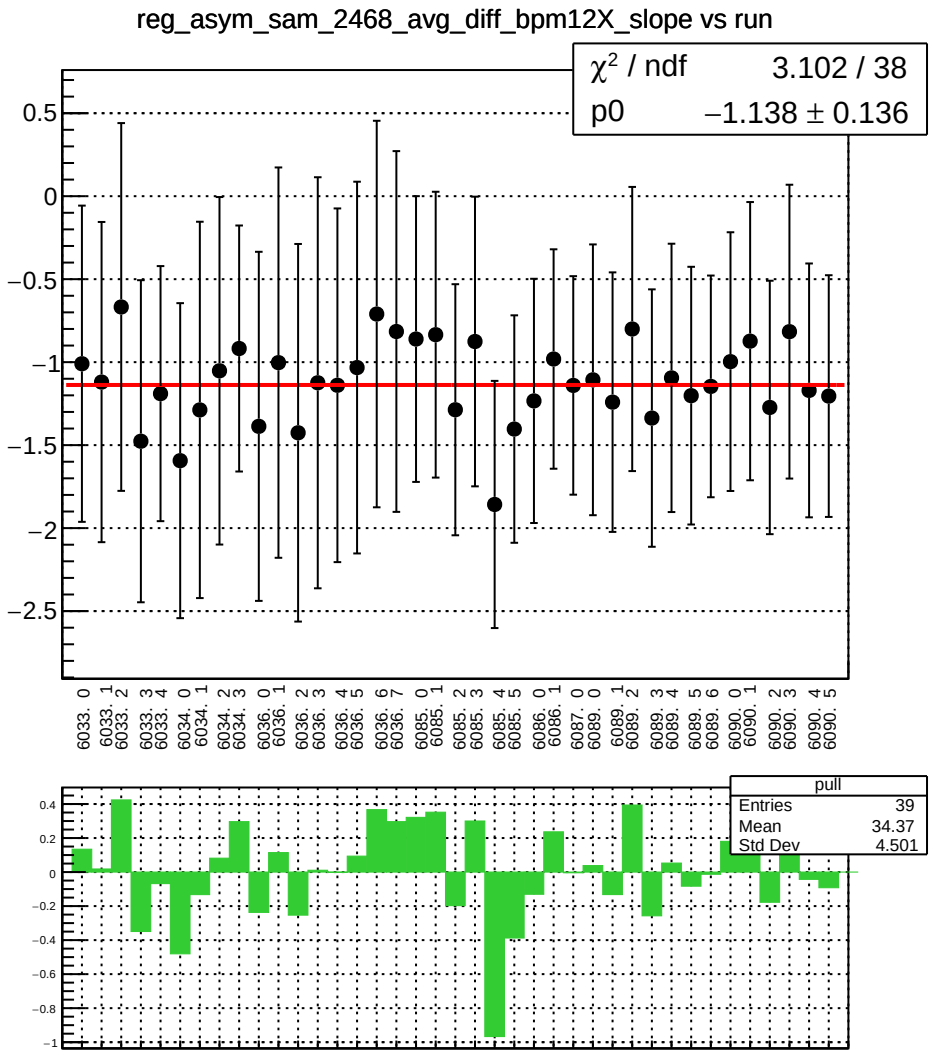

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.47 / 38
p0 −36.85 ± 2.642
pull
Entries 39
Mean 112.9
Std Dev 93.55
pull1D
Entries 39
Mean 0.03522
Std Dev 0.6873

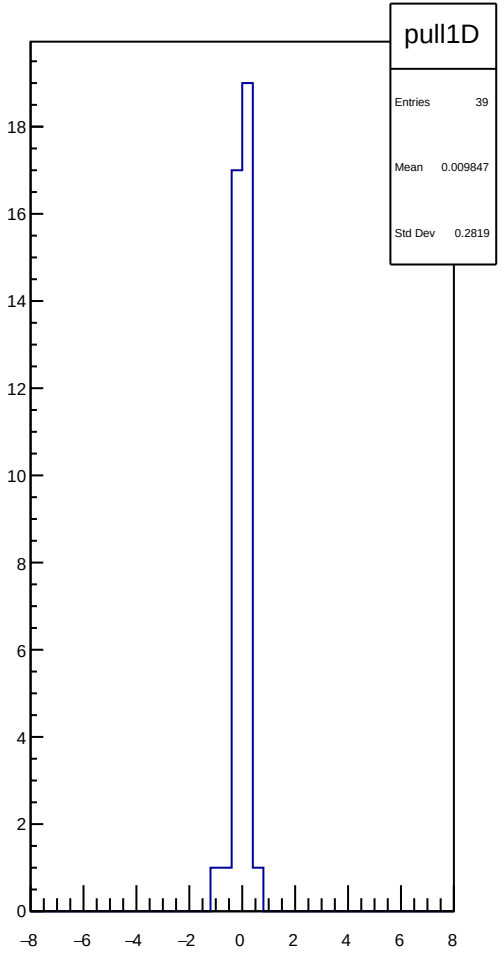

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.963 / 38
p0 4.891 ± 1.677
pull
Entries 39
Mean −37.67
Std Dev 55.9
pull1D
Entries 39
Mean −0.02834
Std Dev 0.451

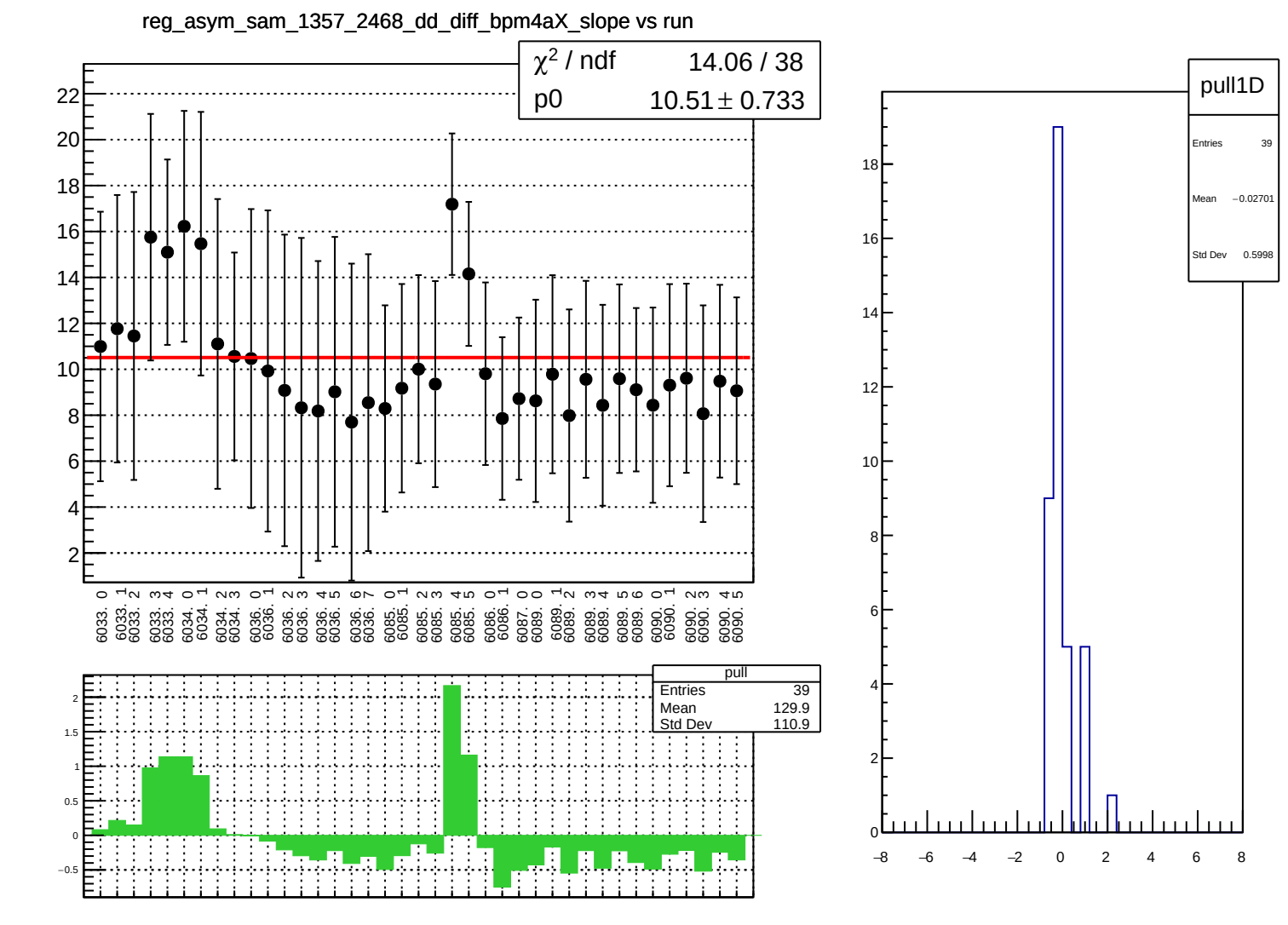

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.43 / 38
p0 −58.42 ± 2.991
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 36.67
Std Dev 12.62
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.06964
Std Dev 0.6453
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

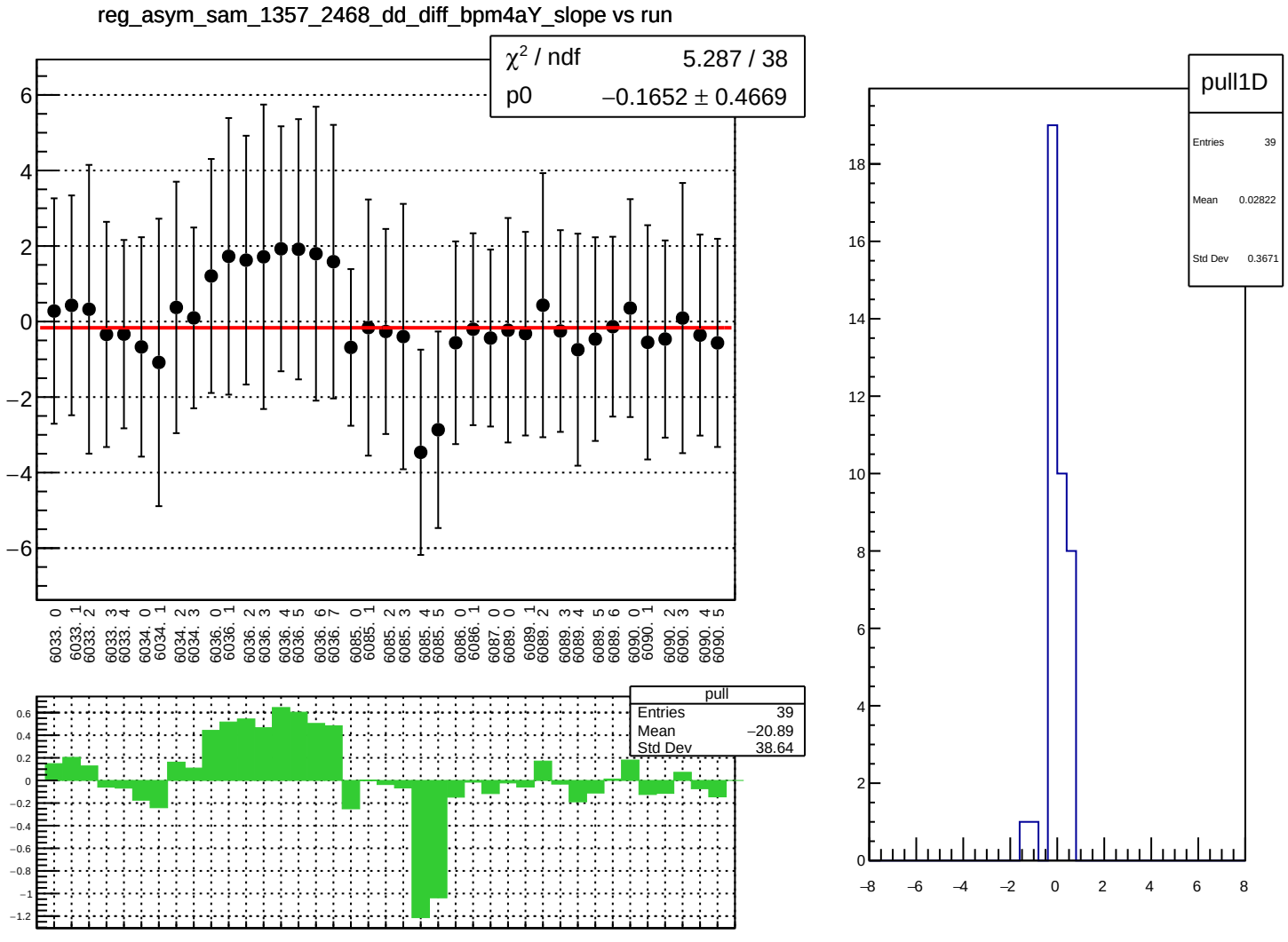

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.35 / 38
p0 35.57 ± 1.779
pull
Entries 39
Mean −7.426
Std Dev 25.86

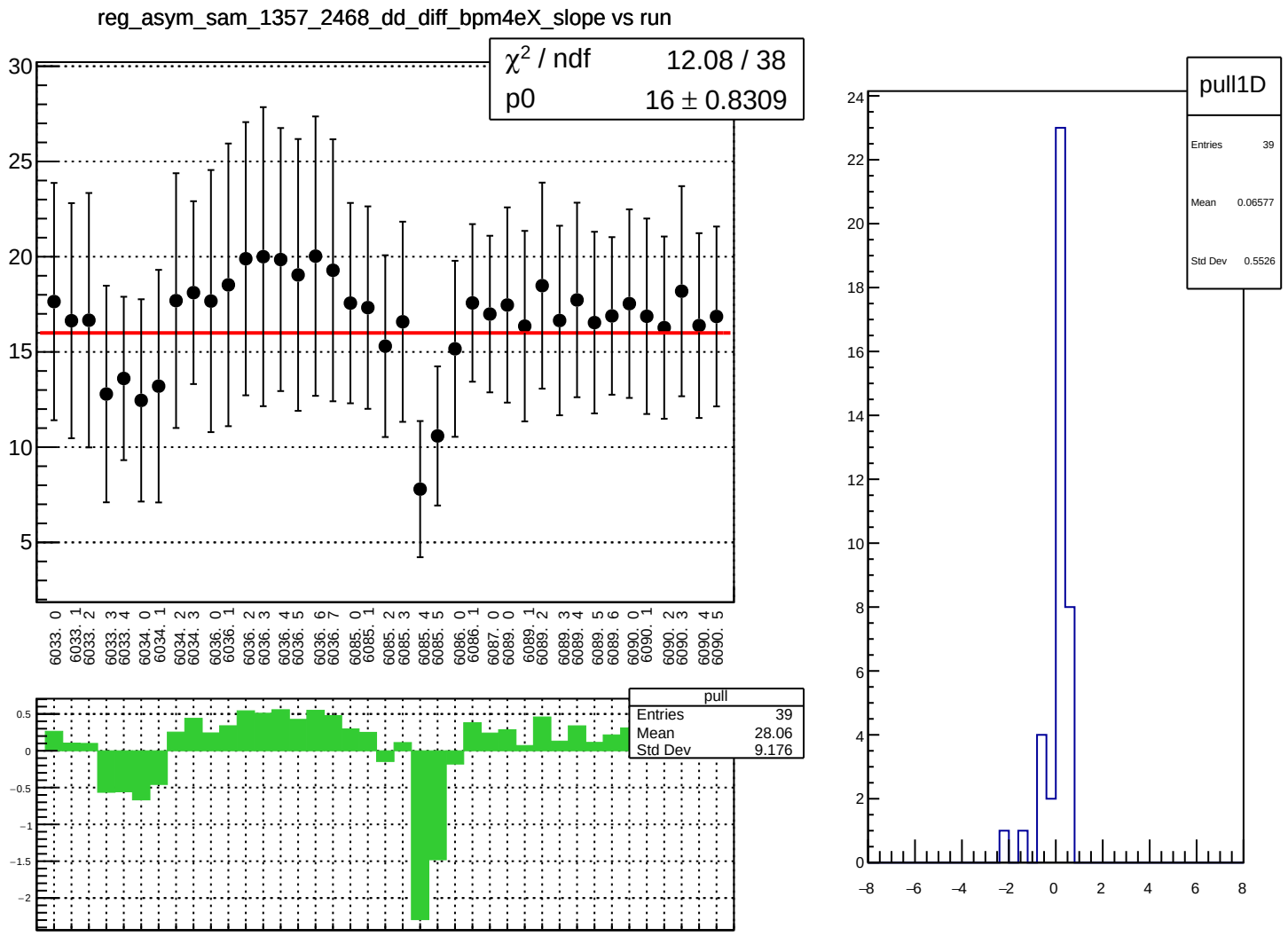

pull1D
Entries 39
Mean 0.05178
Std Dev 0.537

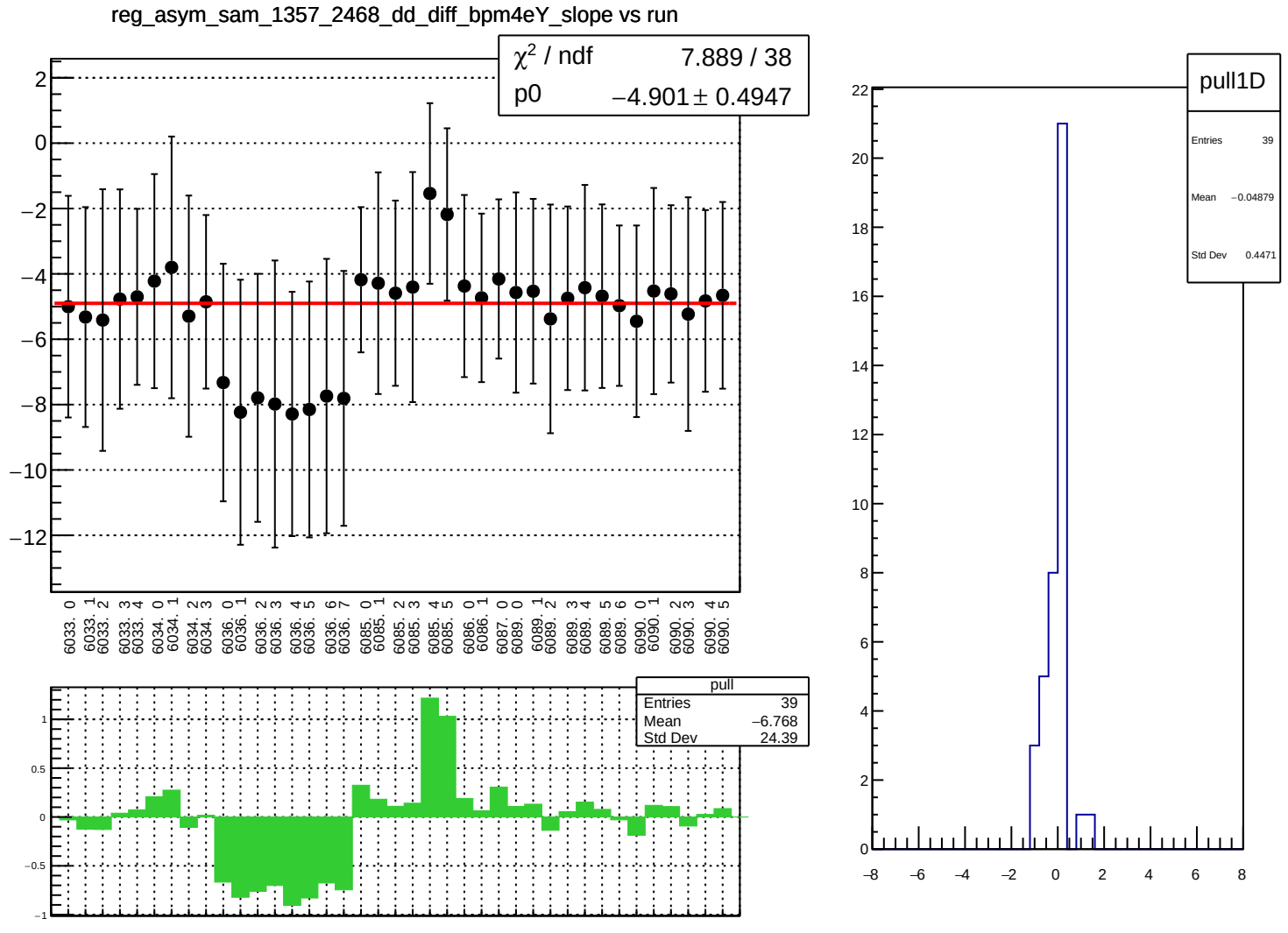

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.102 / 38
p0 −1.138 ± 0.136
pull
Entries 39
Mean 34.37
Std Dev 4.501

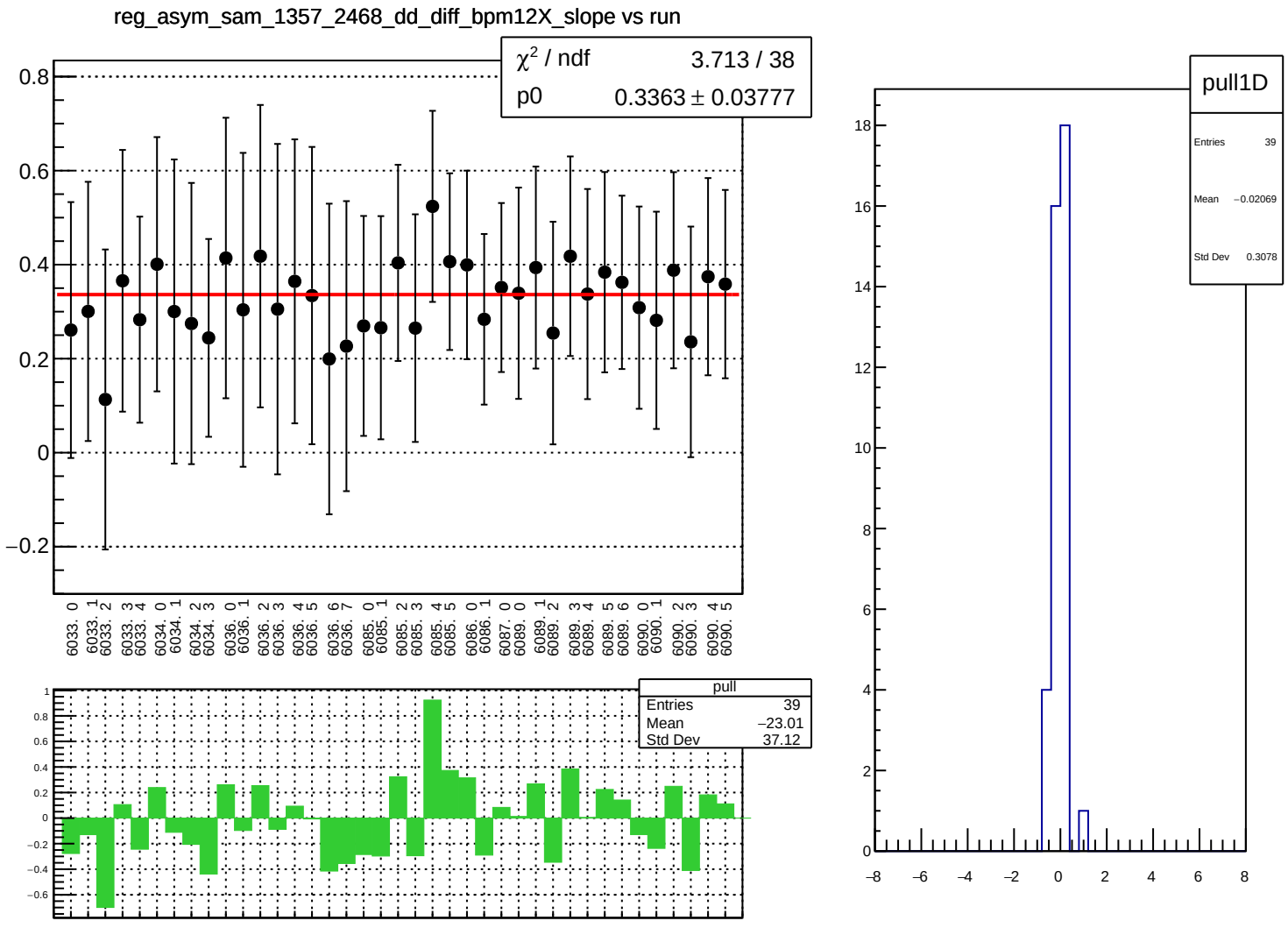

pull1D
Entries 39
Mean 0.009847
Std Dev 0.2819

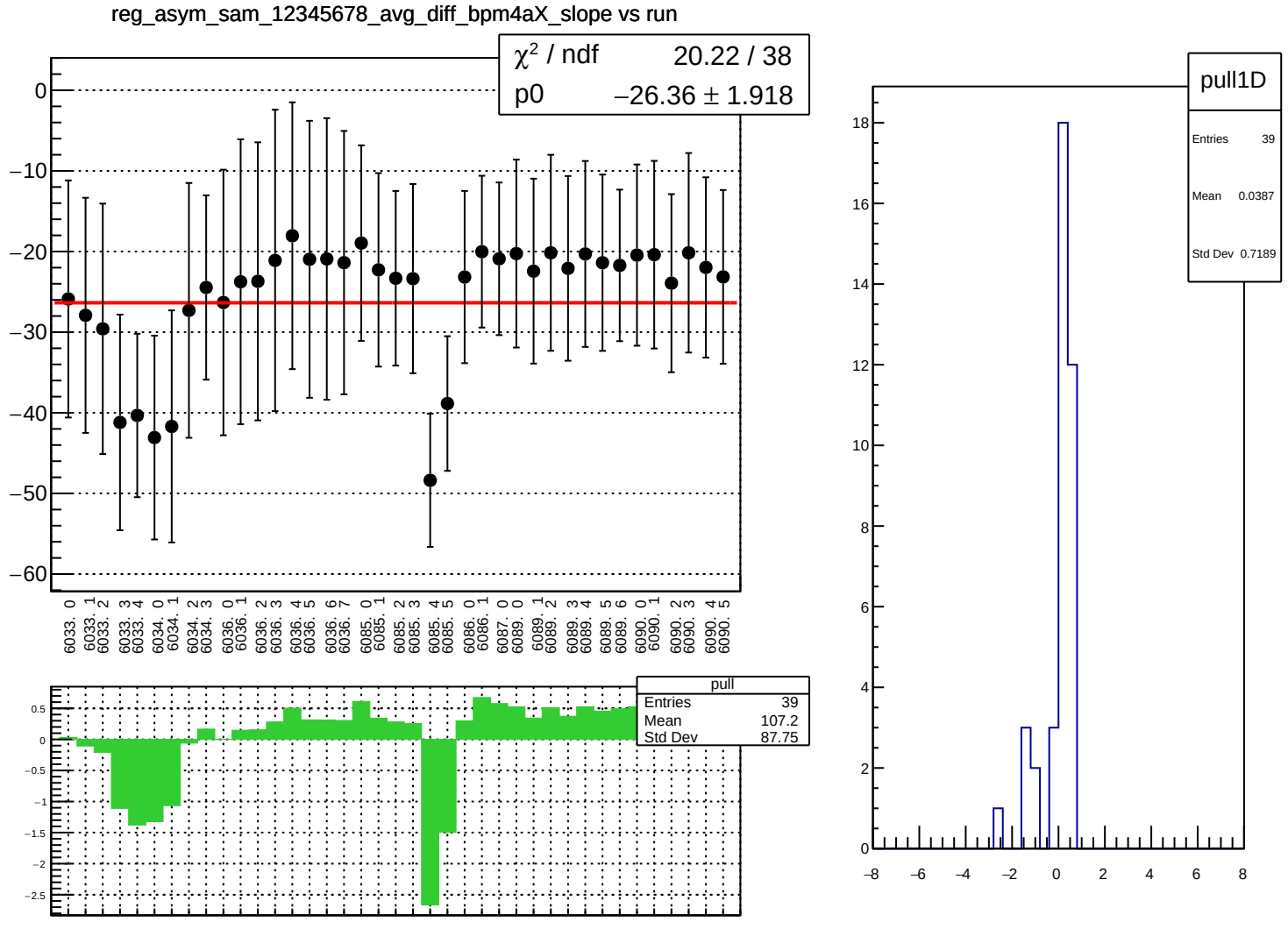

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.06 / 38
p0 10.51 ± 0.733
pull
Entries 39
Mean 129.9
Std Dev 110.9
pull1D
Entries 39
Mean −0.02701
Std Dev 0.5998

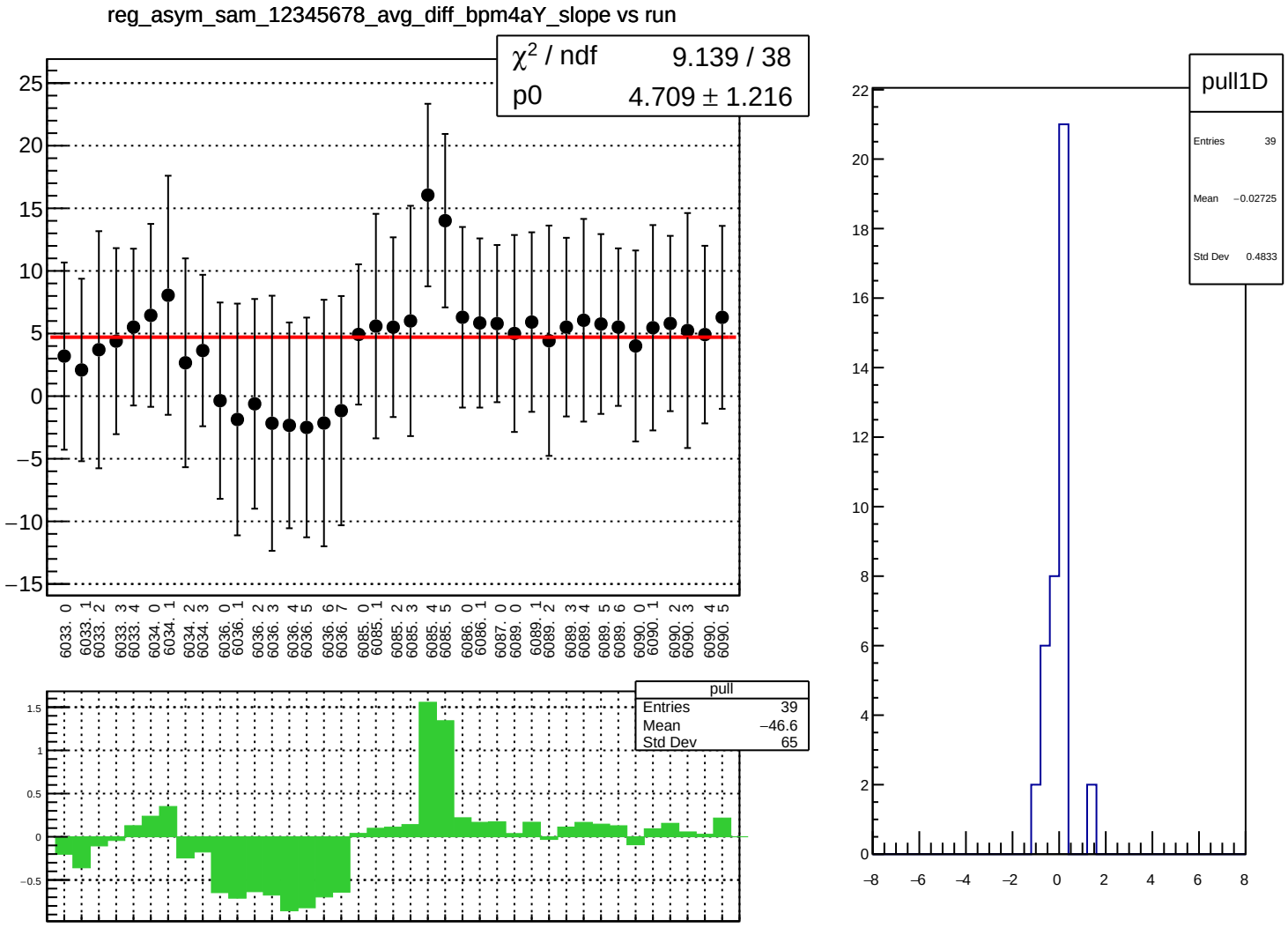

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.287 / 38
p0 −0.1652 ± 0.4669
pull
Entries 39
Mean −20.89
Std Dev 38.64
pull1D
Entries 39
Mean 0.02822
Std Dev 0.3671

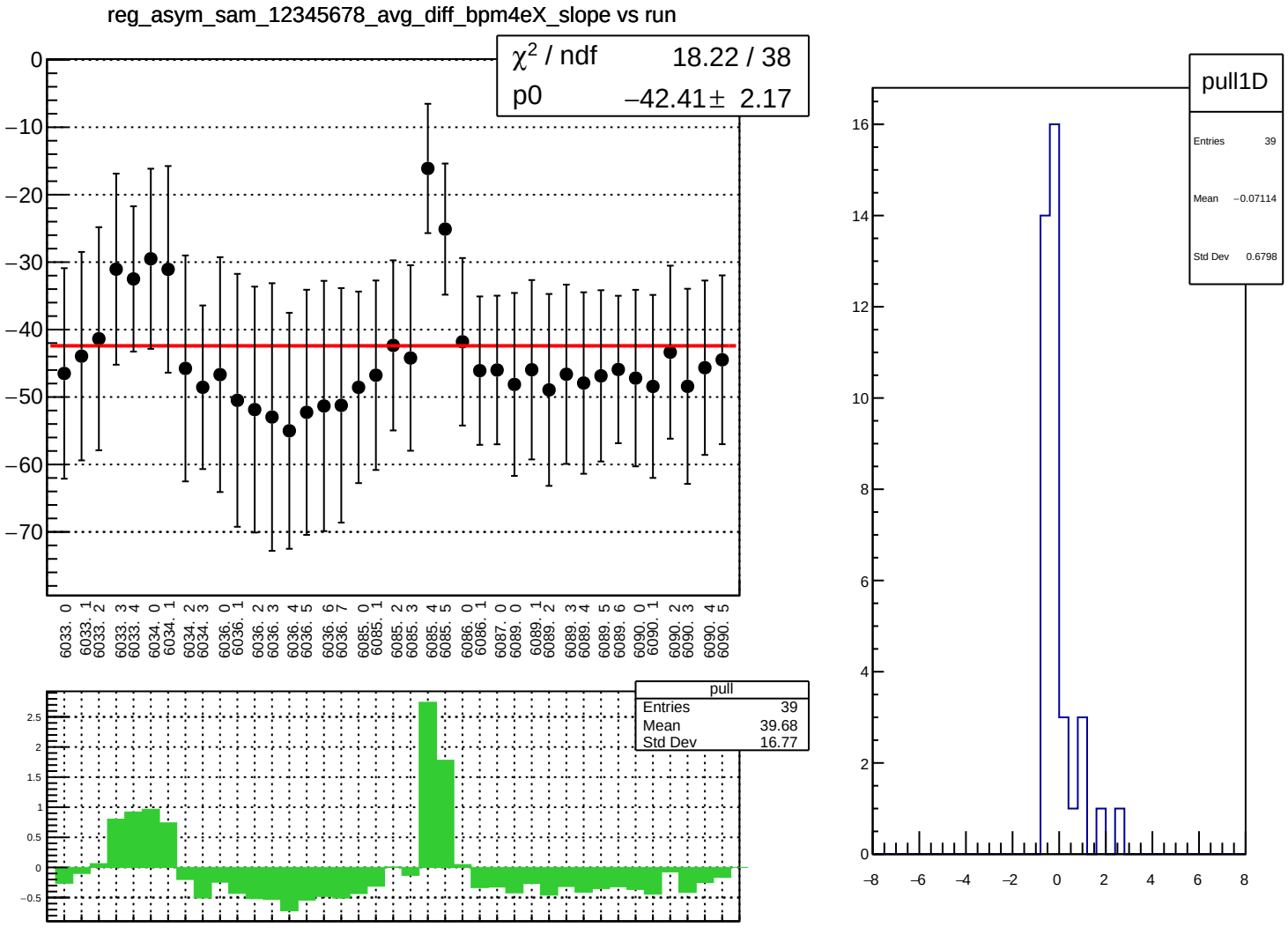

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.08 / 38
p0 16 ± 0.8309
pull
Entries 39
Mean 28.06
Std Dev 9.176
pull1D
Entries 39
Mean 0.06577
Std Dev 0.5526

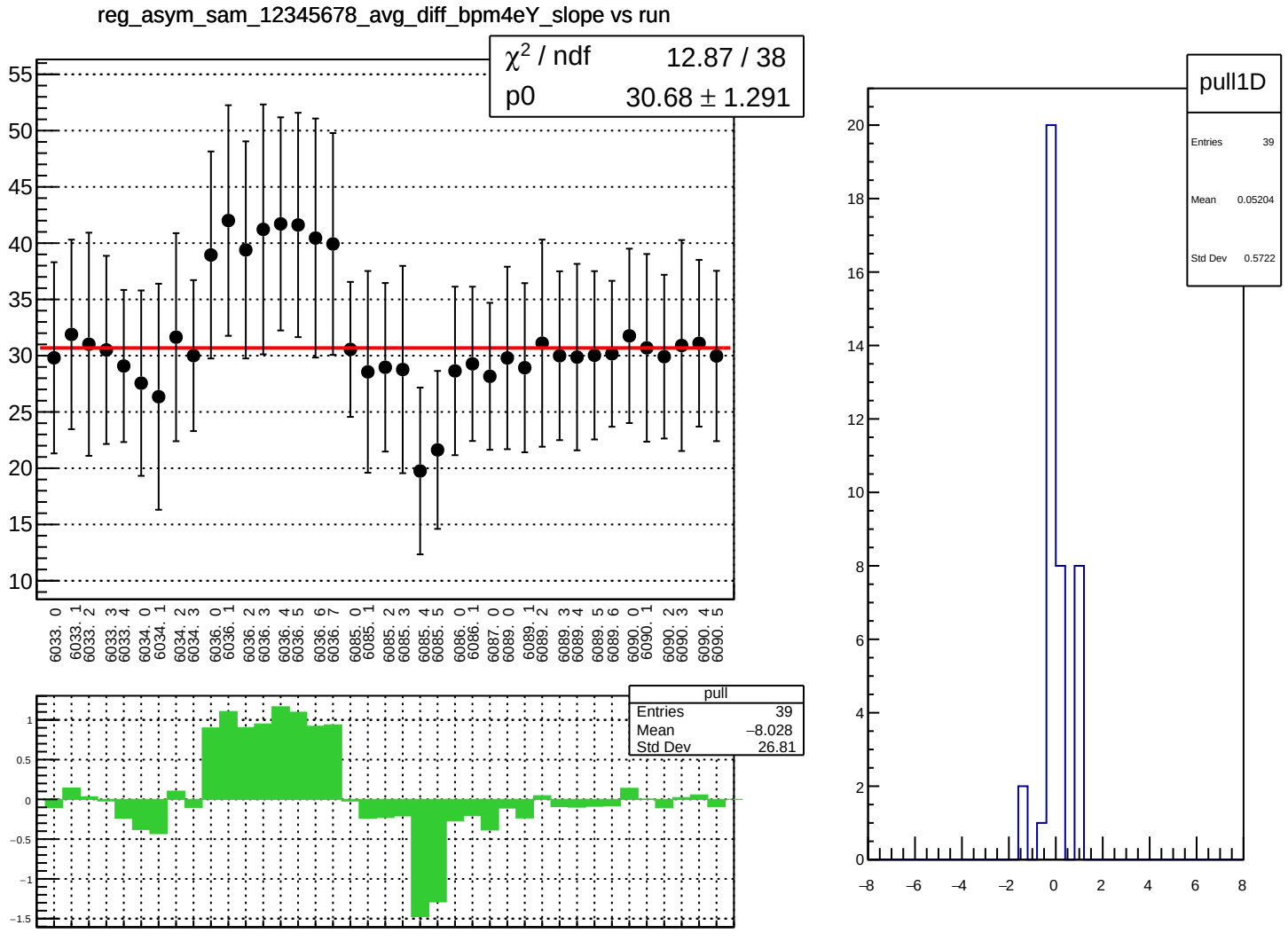

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.889 / 38
p0 −4.901 ± 0.4947
2
0
−2
−4
−6
−8
−10
−12
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −6.768
Std Dev 24.39
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean −0.04879
Std Dev 0.4471
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

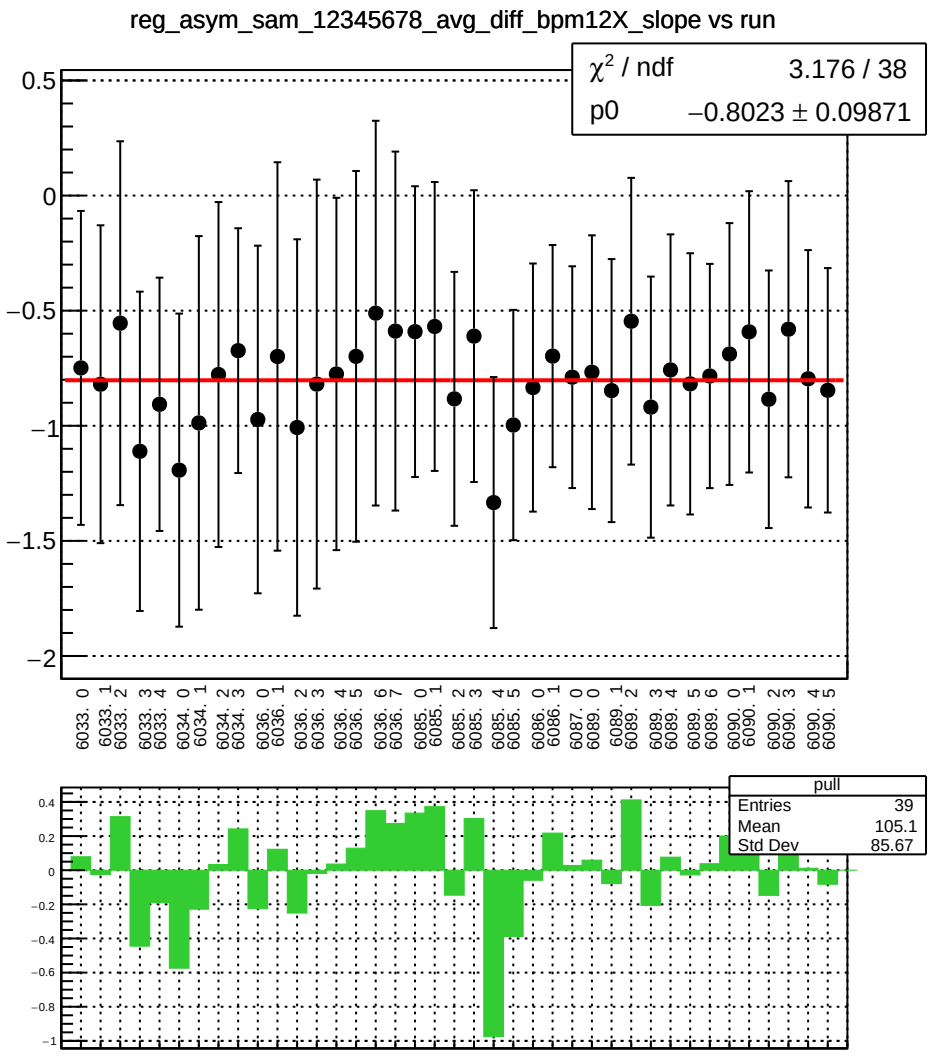

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.713 / 38
p0 0.3363 ± 0.03777
pull
Entries 39
Mean −23.01
Std Dev 37.12
pull1D
Entries 39
Mean −0.02069
Std Dev 0.3078

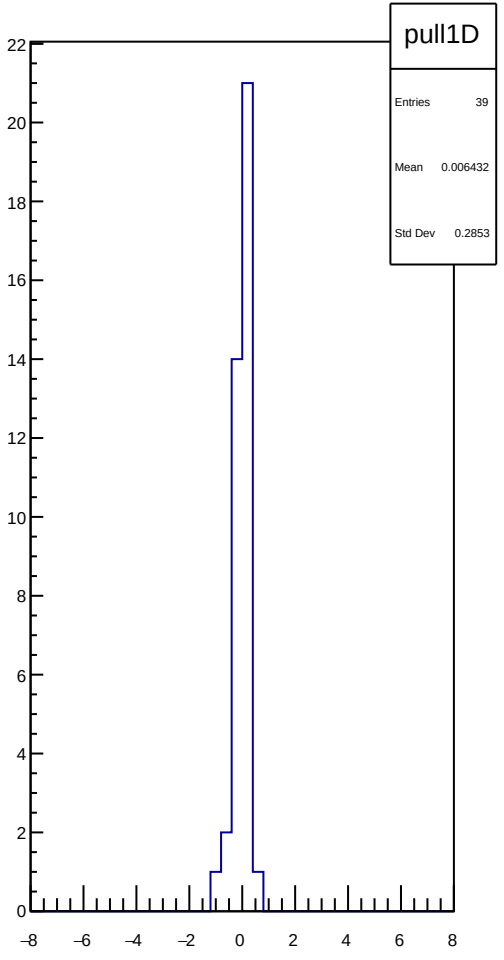

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.22 / 38
p0 −26.36 ± 1.918
0
−10
−20
−30
−40
−50
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 107.2
Std Dev 87.75
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.0387
Std Dev 0.7189
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

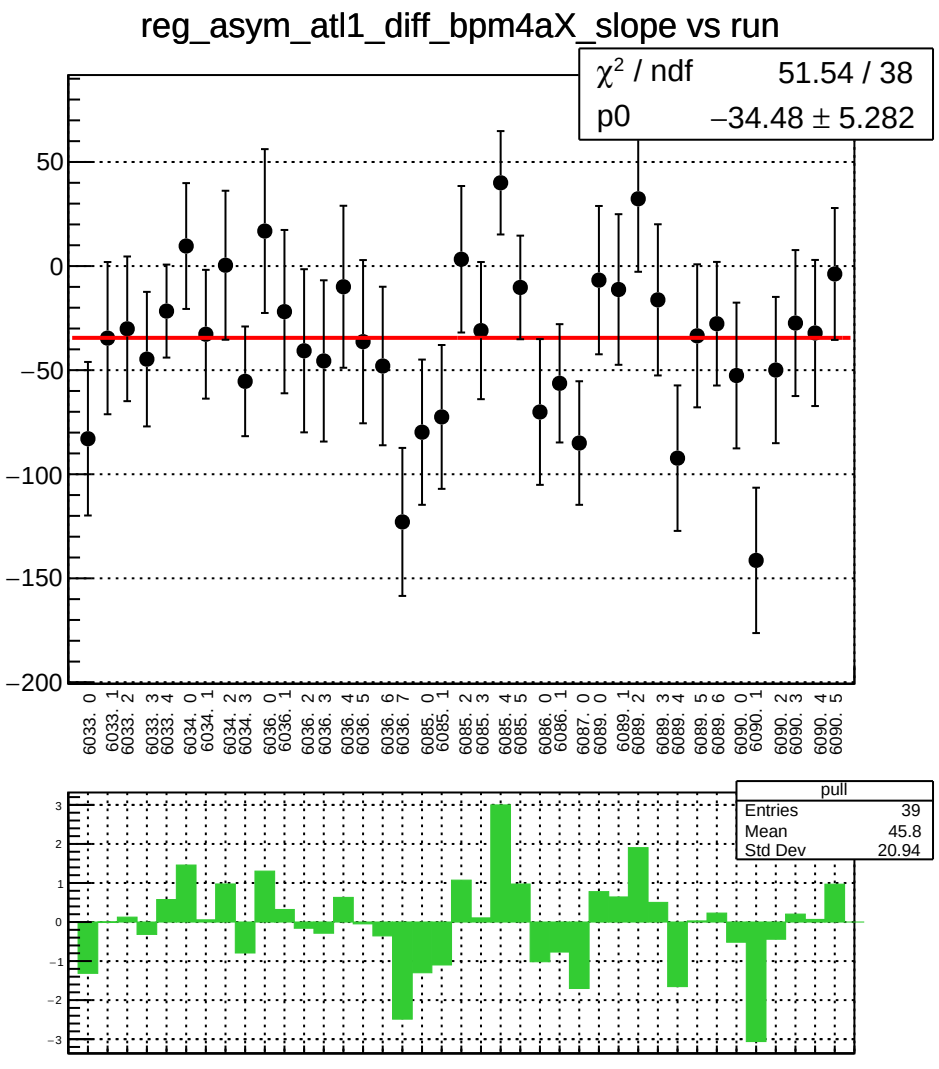

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.139 / 38
p0 4.709 ± 1.216
pull
Entries 39
Mean −46.6
Std Dev 65
pull1D
Entries 39
Mean −0.02725
Std Dev 0.4833

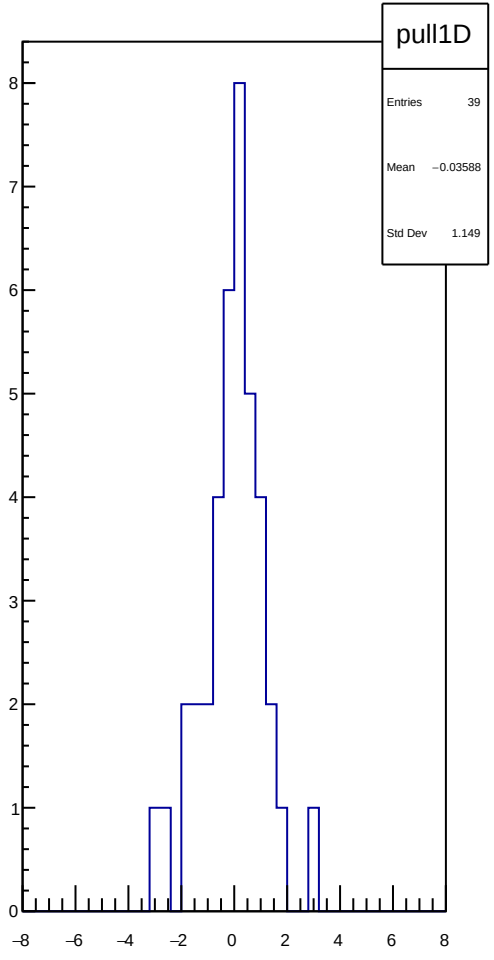

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.22 / 38
p0 −42.41 ± 2.17
0
−10
−20
−30
−40
−50
−60
−70
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 39.68
Std Dev 16.77
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 39
Mean −0.07114
Std Dev 0.6798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

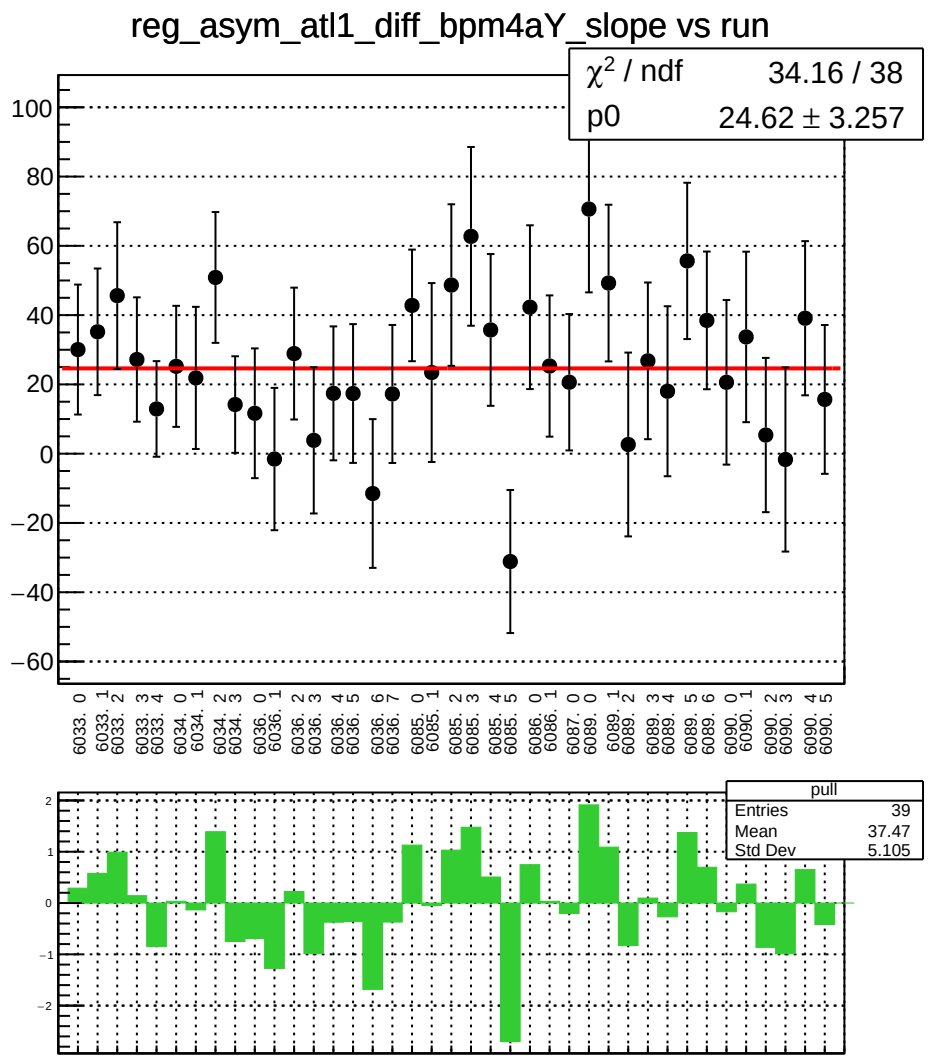

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.87 / 38
p0 30.68 ± 1.291
pull
Entries 39
Mean −8.028
Std Dev 26.81
pull1D
Entries 39
Mean 0.05204
Std Dev 0.5722

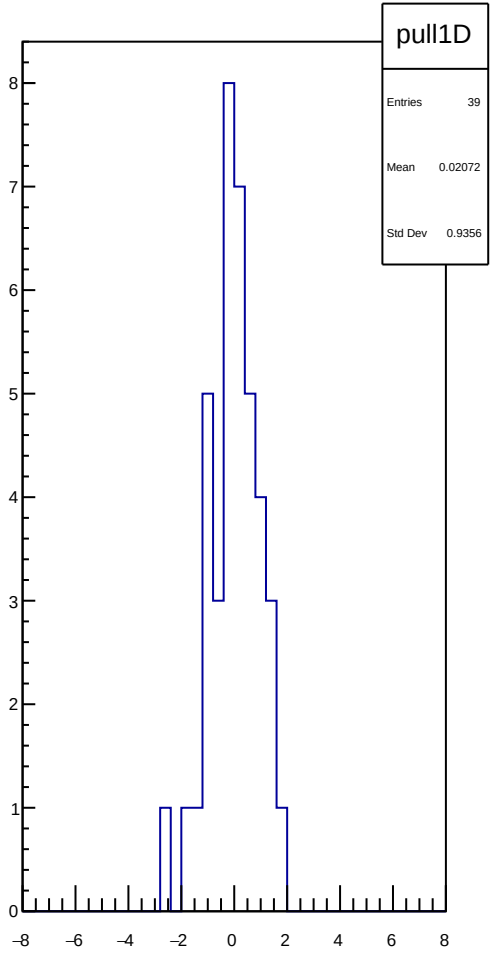

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.176 / 38
p0 −0.8023 ± 0.09871
pull
Entries 39
Mean 105.1
Std Dev 85.67

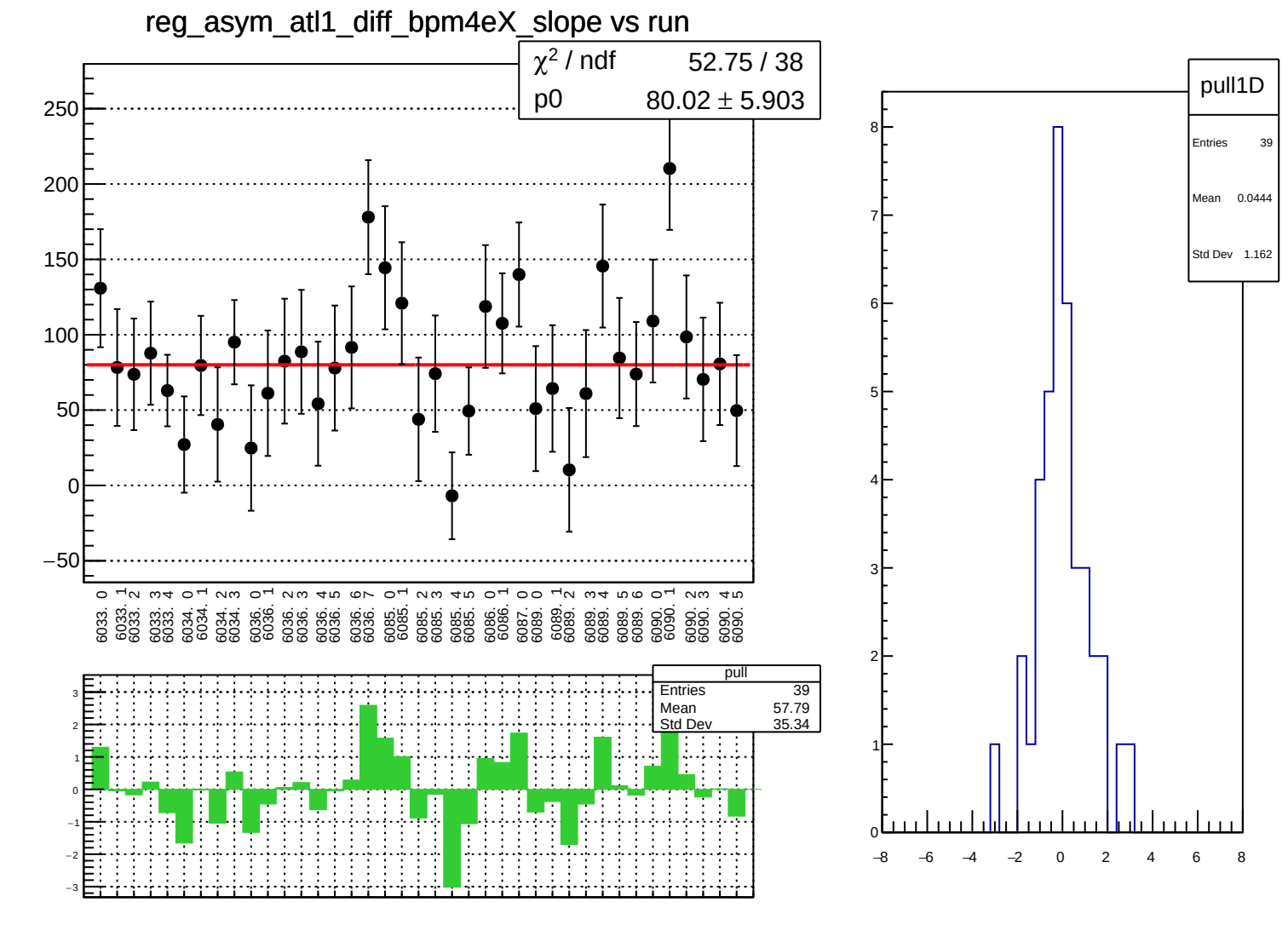

pull1D
Entries 39
Mean 0.006432
Std Dev 0.2853

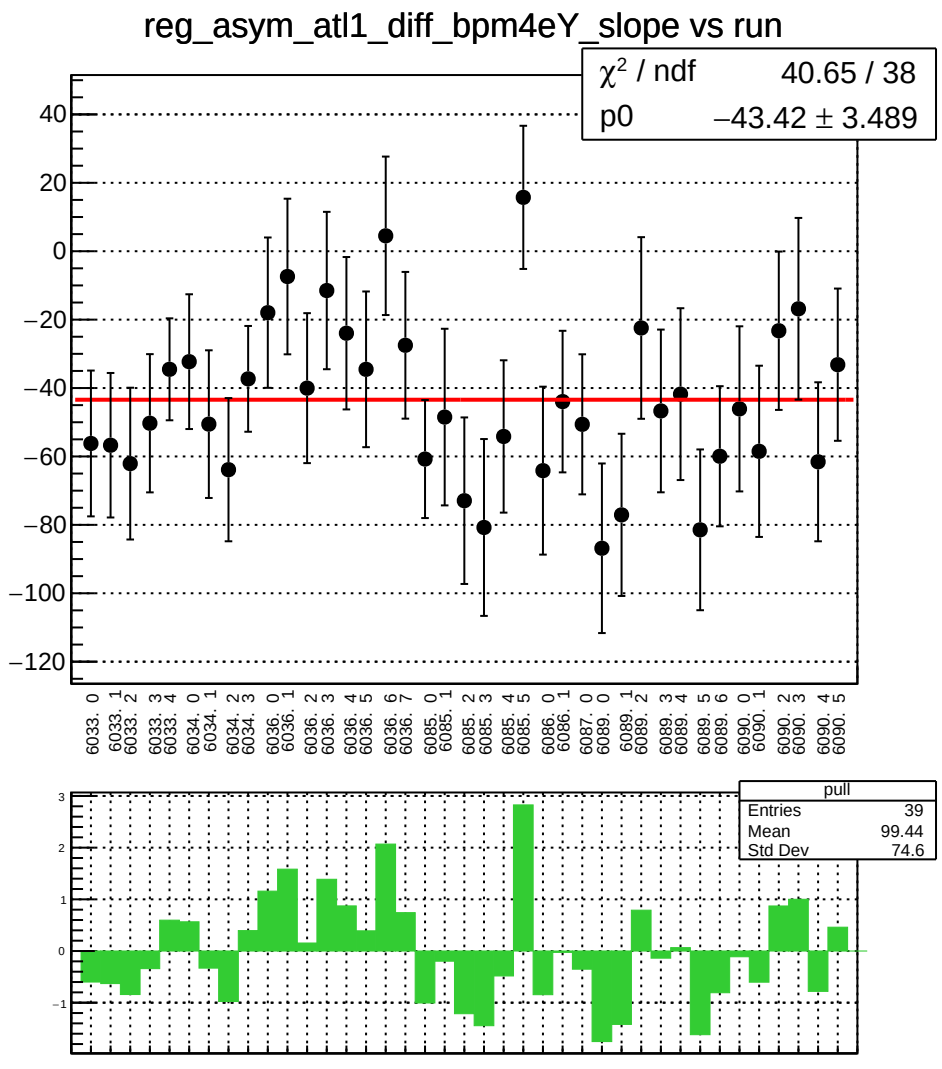

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 51.54 / 38
p0 −34.48 ± 5.282
50
0
−50
−100
−150
−200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 45.8
Std Dev 20.94
3
2
1
0
−1
−2
−3

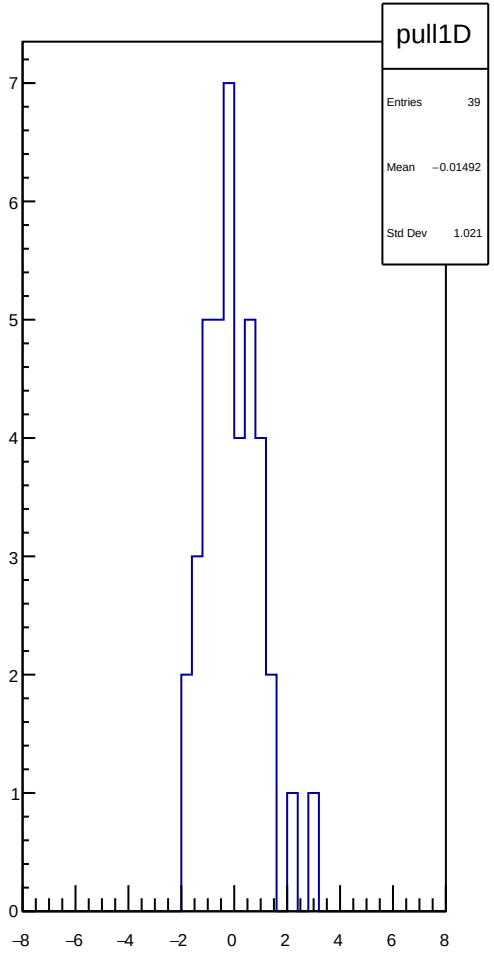

pull1D
Entries 39
Mean −0.03588
Std Dev 1.149
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

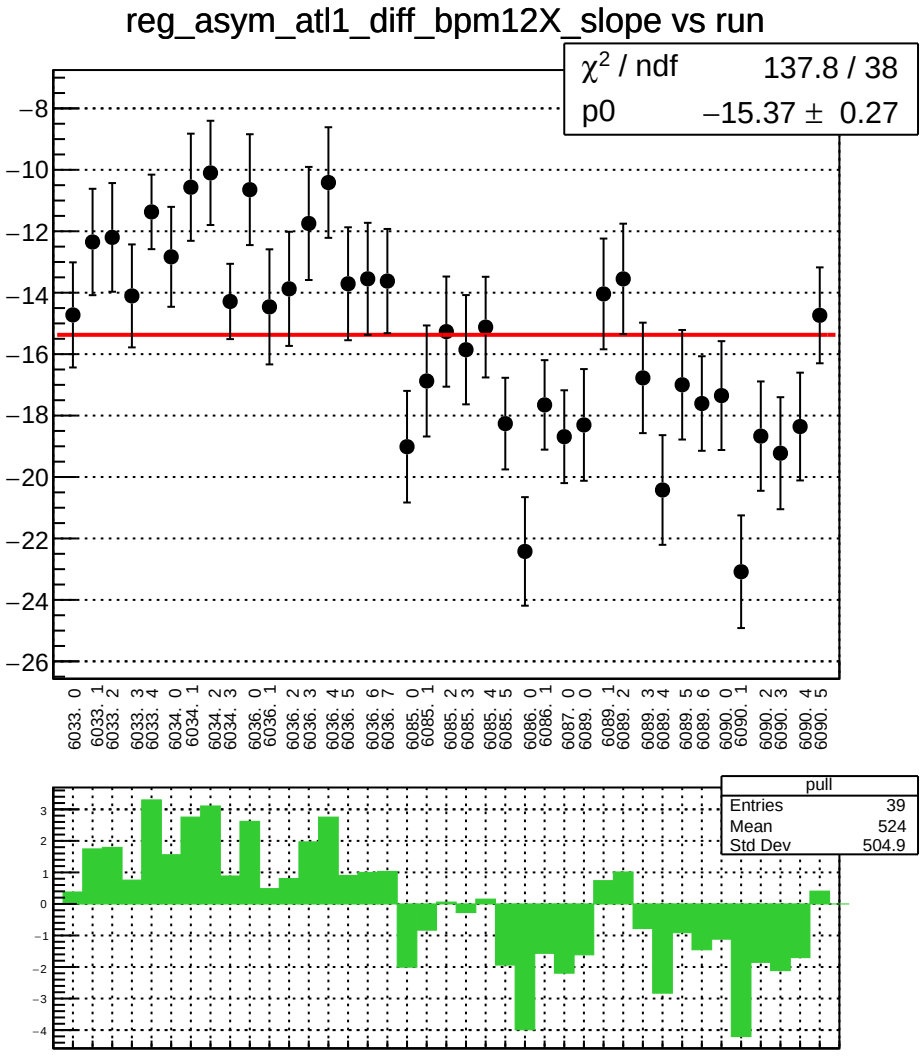

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 34.16 / 38
p0 24.62 ± 3.257
pull
Entries 39
Mean 37.47
Std Dev 5.105

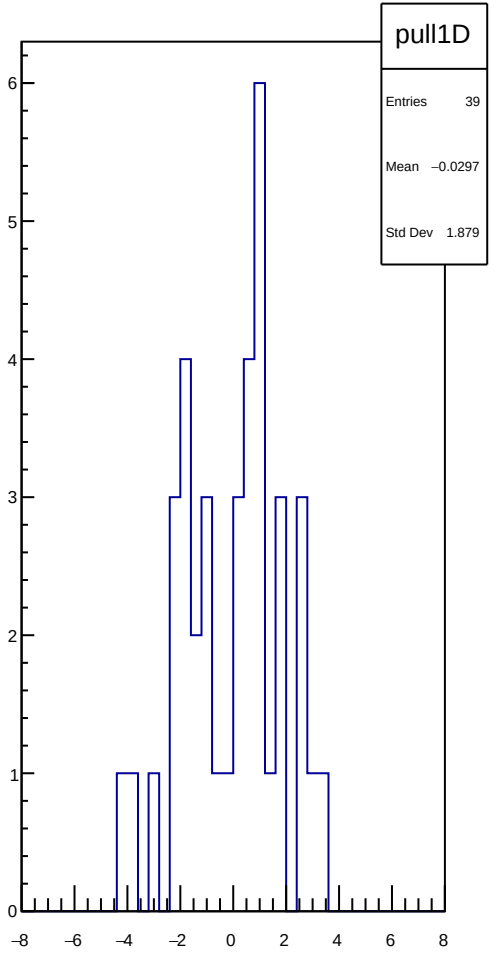

pull1D
Entries 39
Mean 0.02072
Std Dev 0.9356

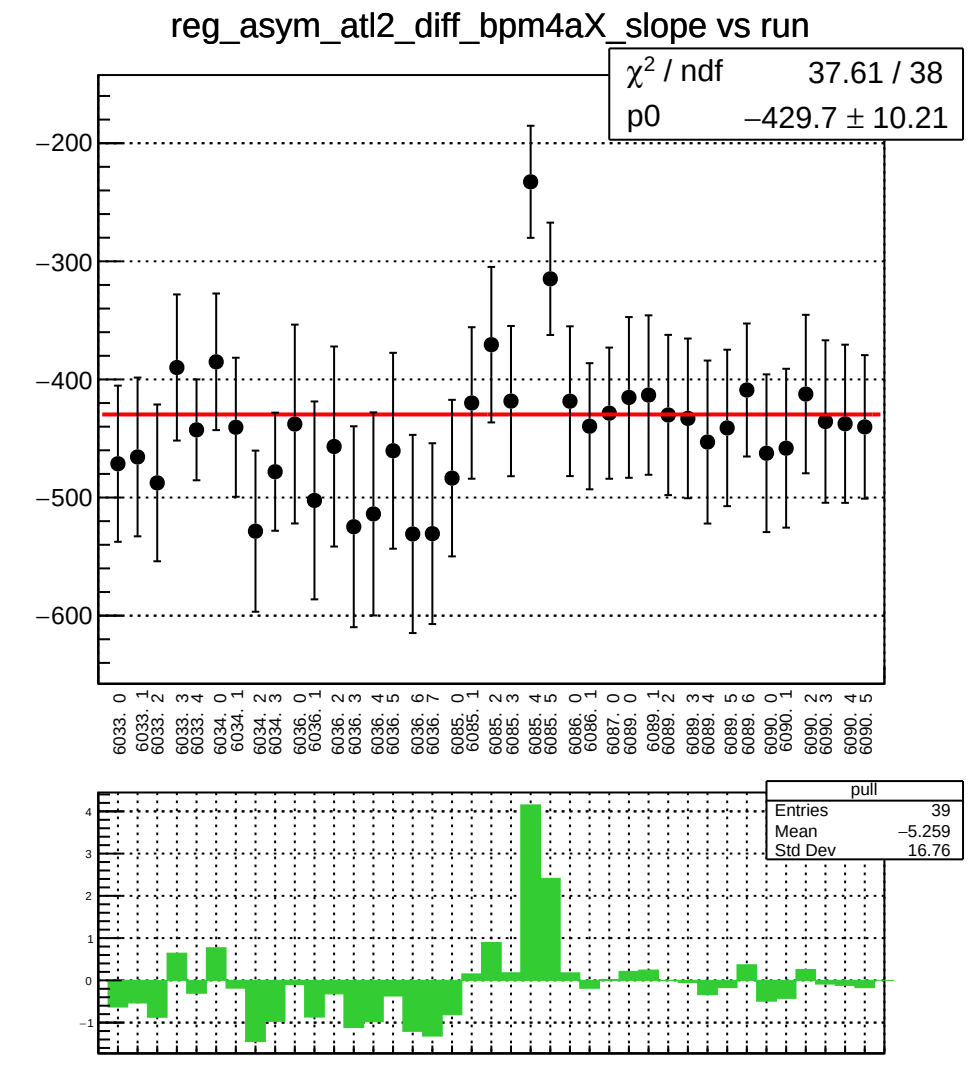

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 52.75 / 38
p0 80.02 ± 5.903
250
200
150
100
50
0
−50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 57.79
Std Dev 35.34
3
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.0444
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

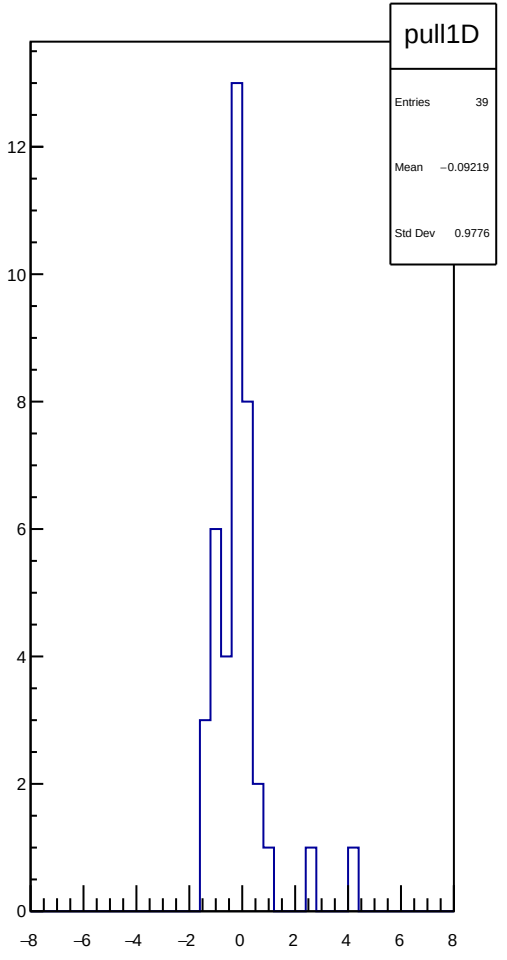

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 40.65 / 38
p0 −43.42 ± 3.489
pull
Entries 39
Mean 99.44
Std Dev 74.6

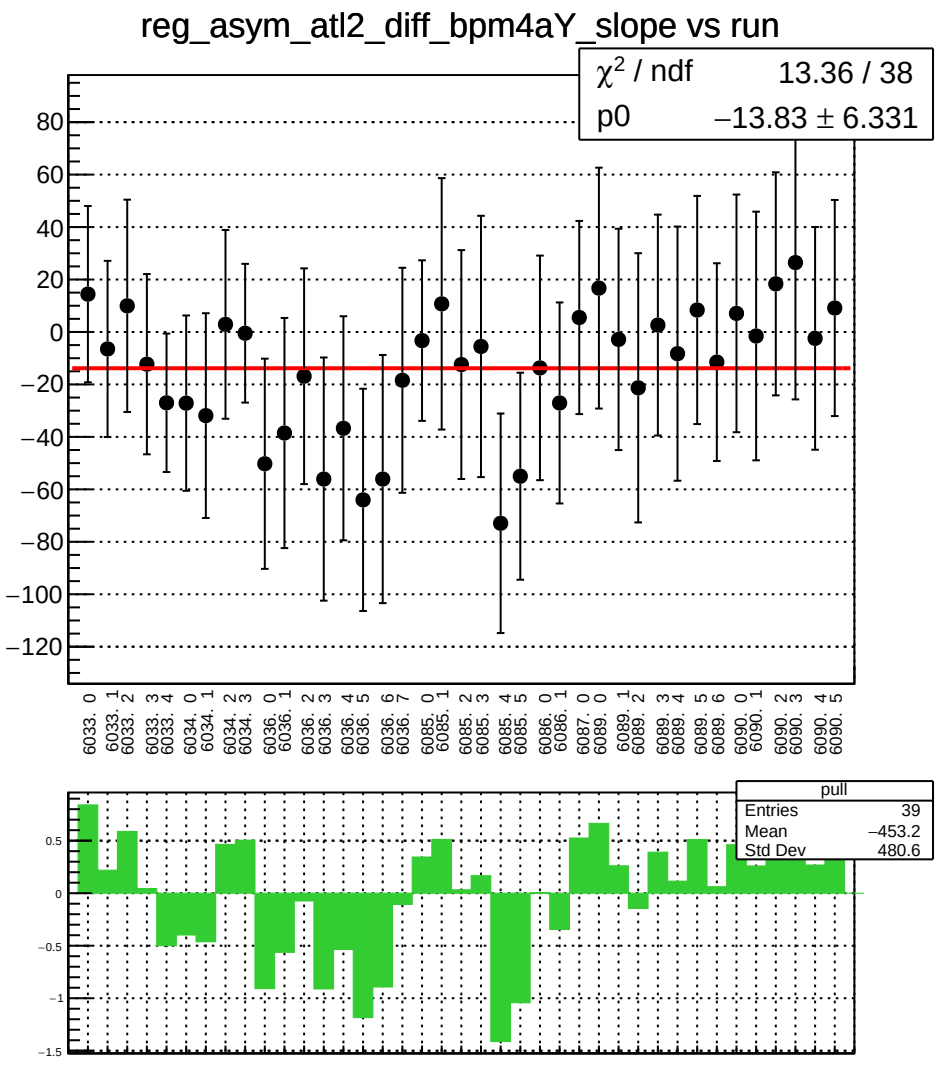

pull1D
Entries 39
Mean −0.01492
Std Dev 1.021

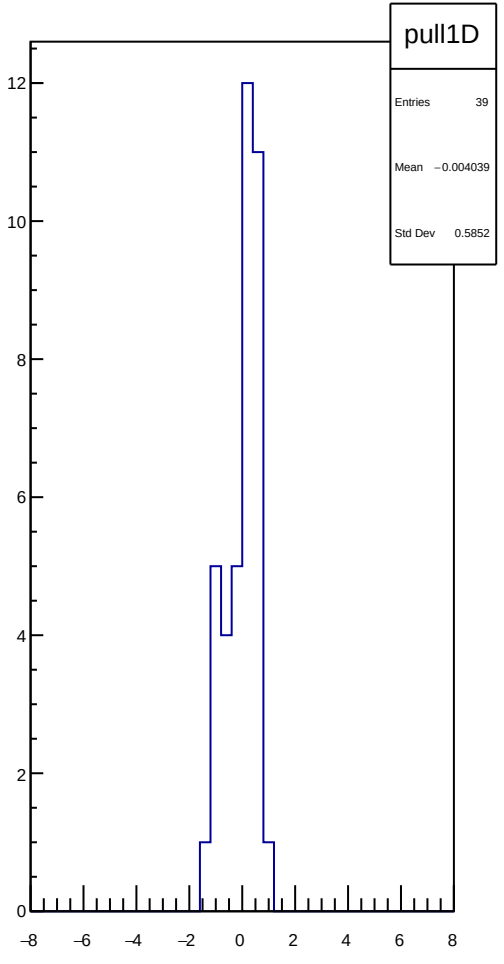

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 137.8 / 38
p0 −15.37 ± 0.27
pull
Entries 39
Mean 524
Std Dev 504.9

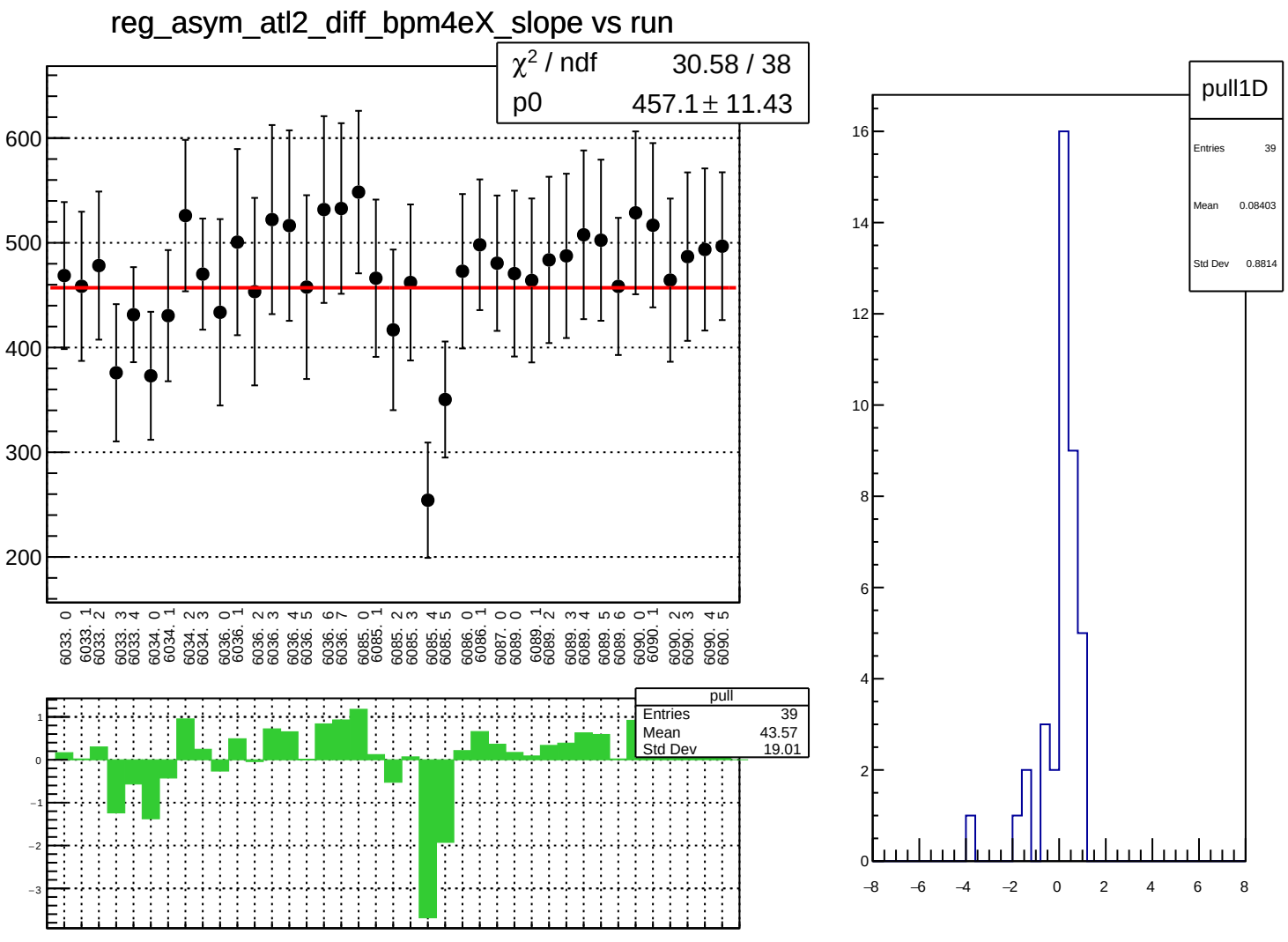

pull1D
Entries 39
Mean −0.0297
Std Dev 1.879

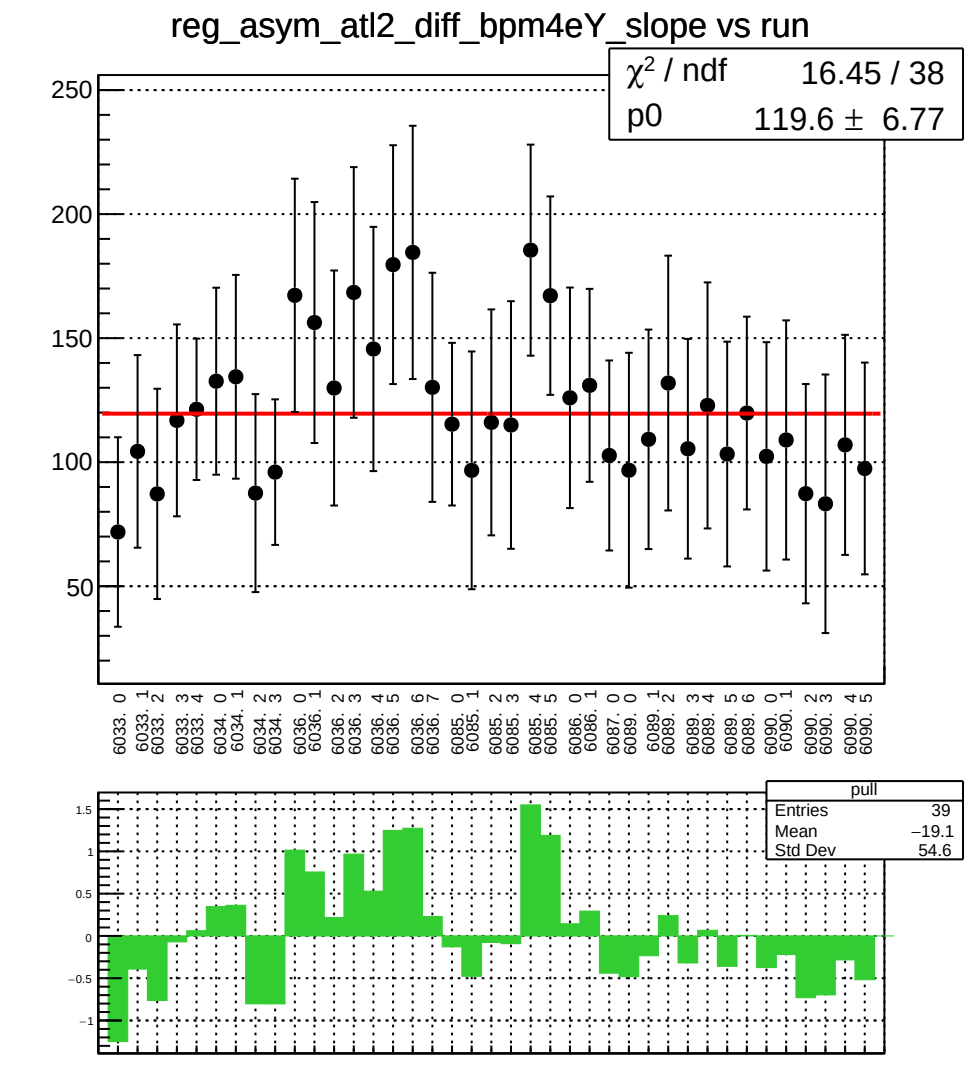

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 37.61 / 38
p0 −429.7 ± 10.21
−200
−300
−400
−500
−600
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −5.259
Std Dev 16.76
4
3
2
1
0
−1

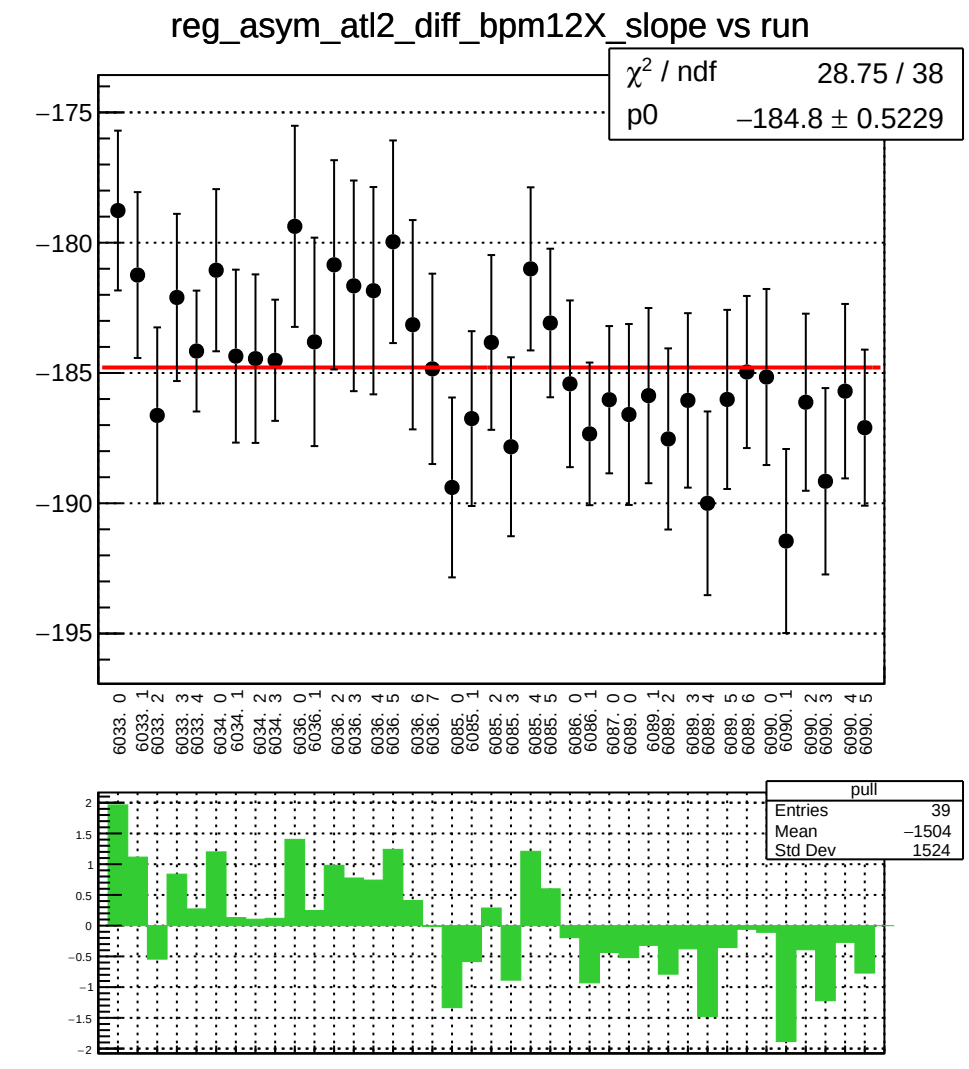

pull1D
Entries 39
Mean −0.09219
Std Dev 0.9776
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

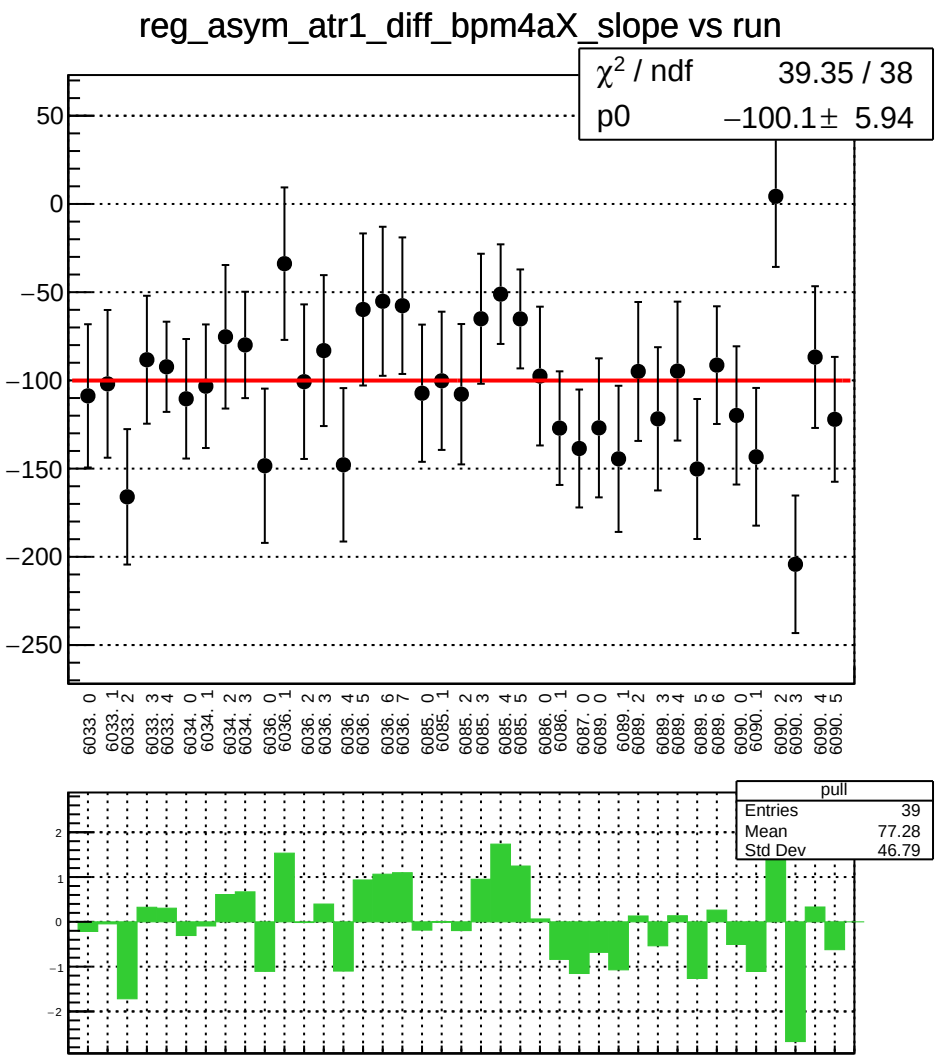

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 13.36 / 38
p0 −13.83 ± 6.331
pull
Entries 39
Mean −453.2
Std Dev 480.6

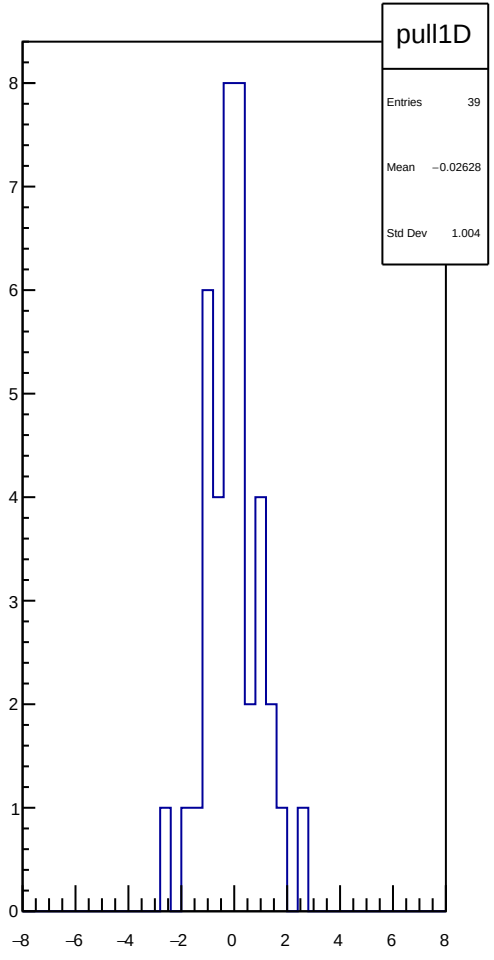

pull1D
Entries 39
Mean −0.004039
Std Dev 0.5852

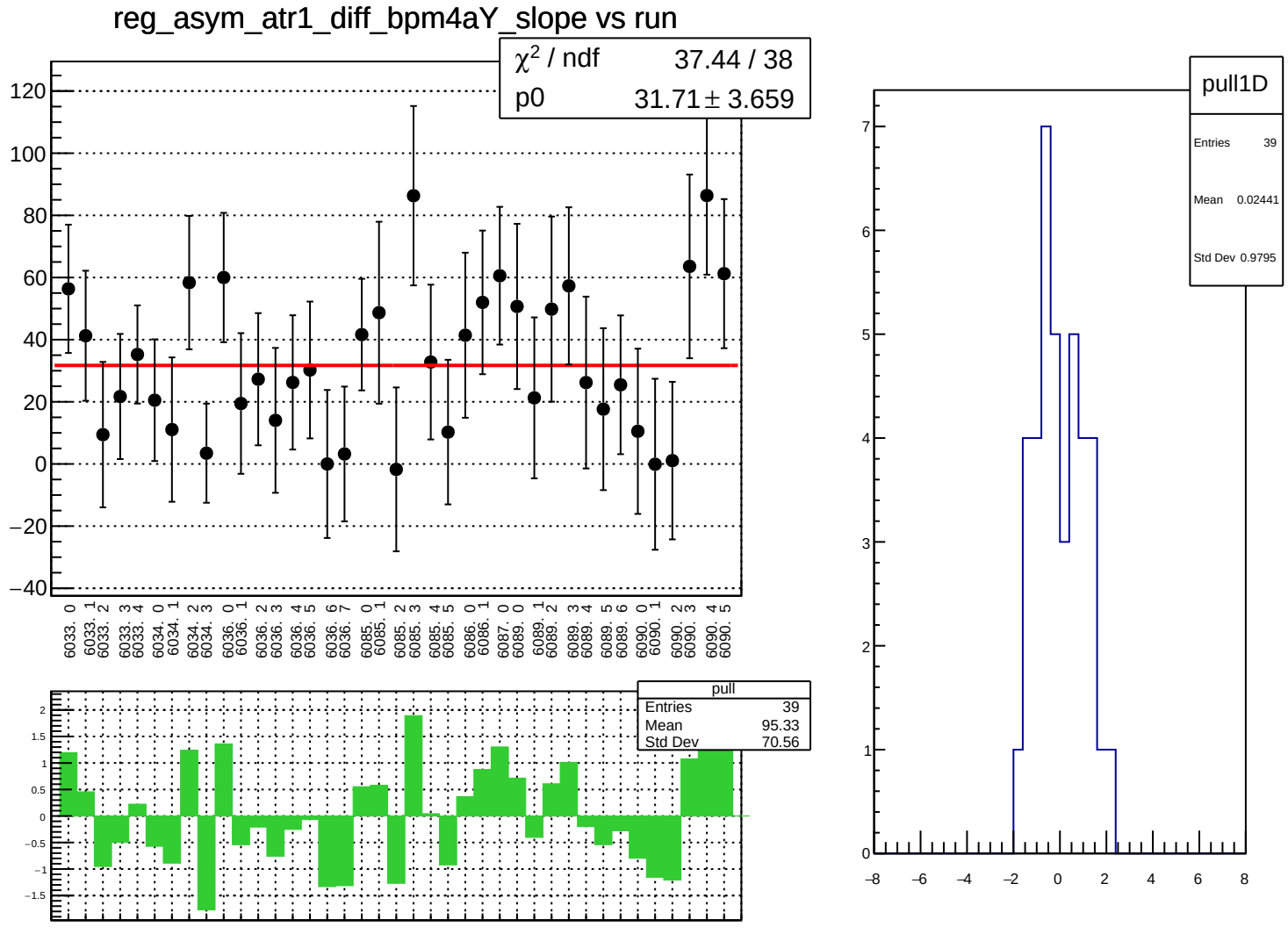

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 30.58 / 38
p0 457.1 ± 11.43
600
500
400
300
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 43.57
Std Dev 19.01
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.08403
Std Dev 0.8814
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

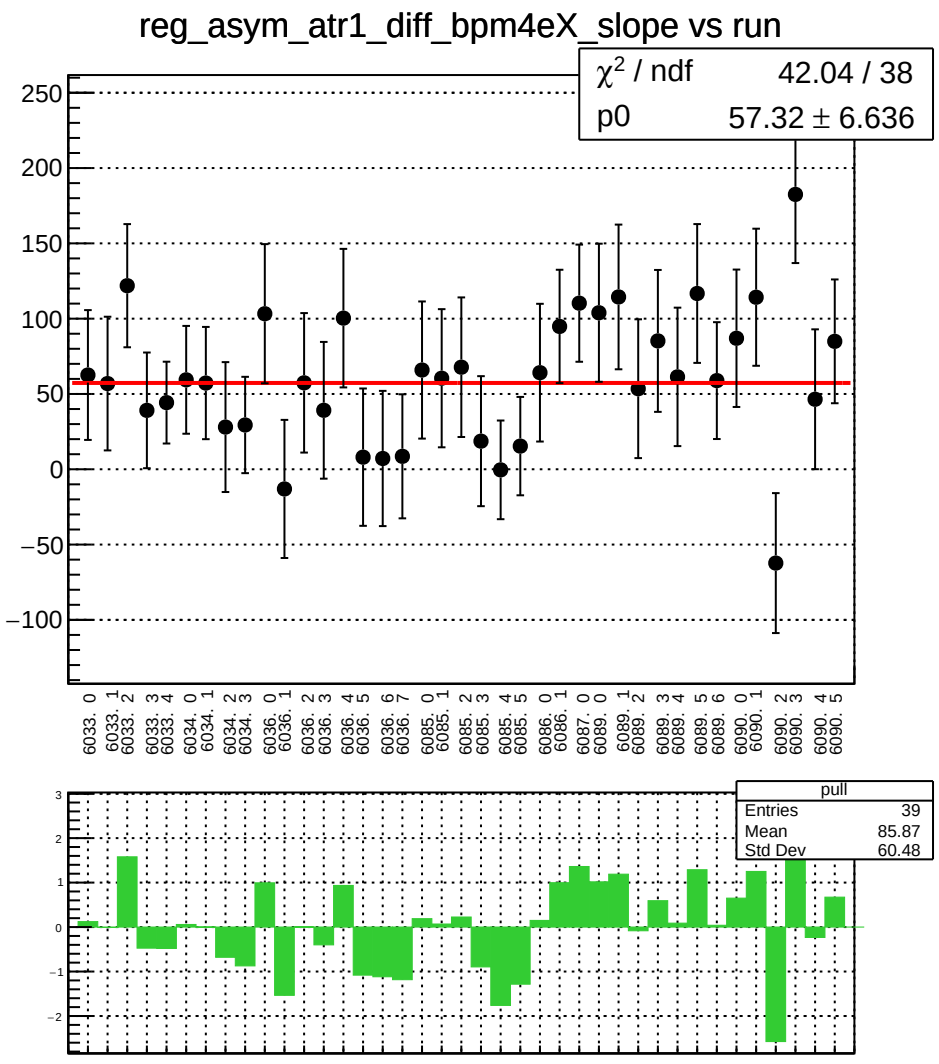

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 16.45 / 38
p0 119.6 ± 6.77
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −19.1
Std Dev 54.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.02516
Std Dev 0.649
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

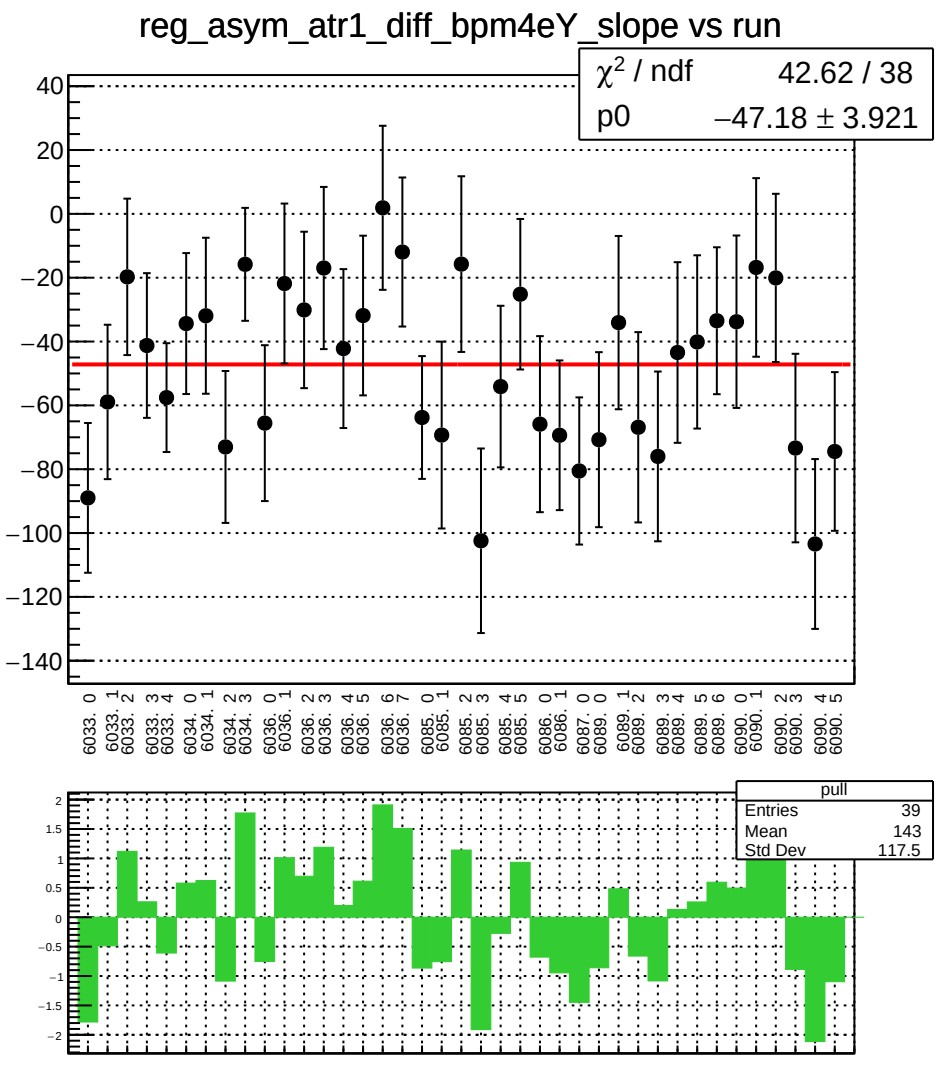

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 28.75 / 38
p0 −184.8 ± 0.5229
−175
−180
−185
−190
−195
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1504
Std Dev 1524
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.004117
Std Dev 0.8585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

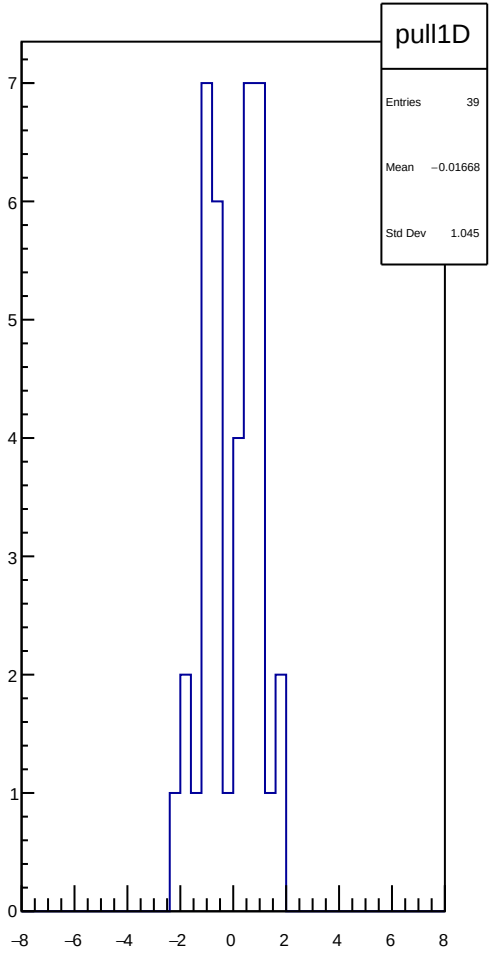

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 39.35 / 38
p0 −100.1± 5.94
50
0
−50
−100
−150
−200
−250
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 77.28
Std Dev 46.79
2
1
0
−1
−2

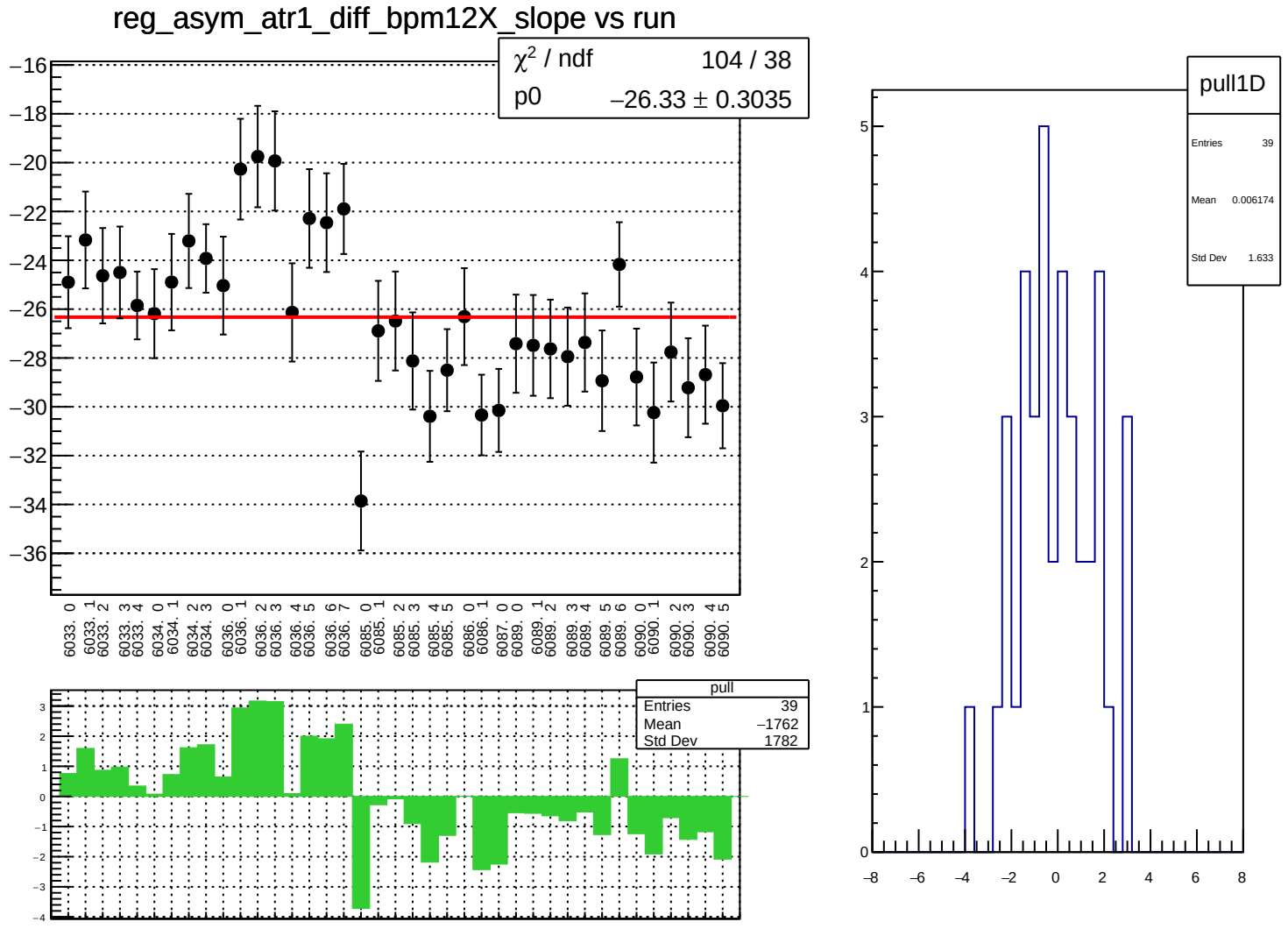

pull1D
Entries 39
Mean −0.02628
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

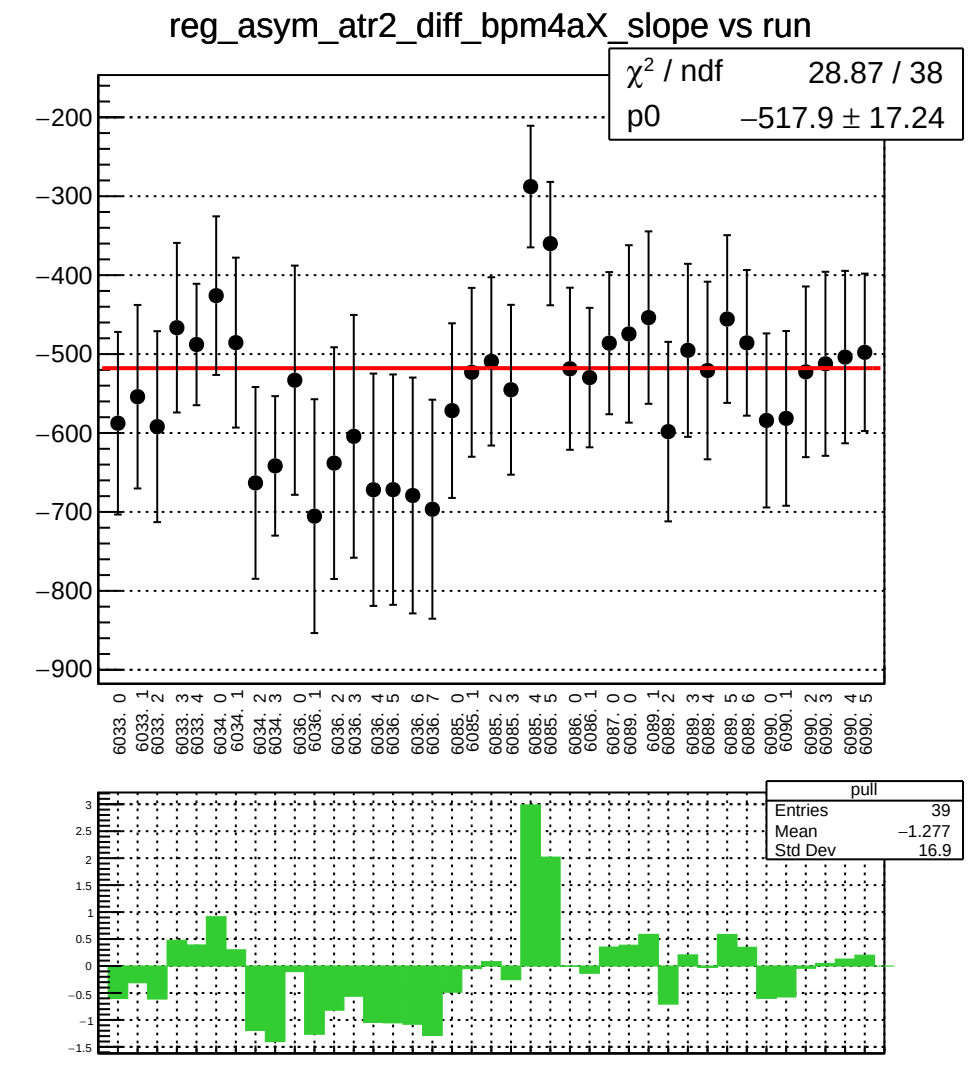

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 37.44 / 38
p0 31.71 ± 3.659
pull
Entries 39
Mean 95.33
Std Dev 70.56
pull1D
Entries 39
Mean 0.02441
Std Dev 0.9795

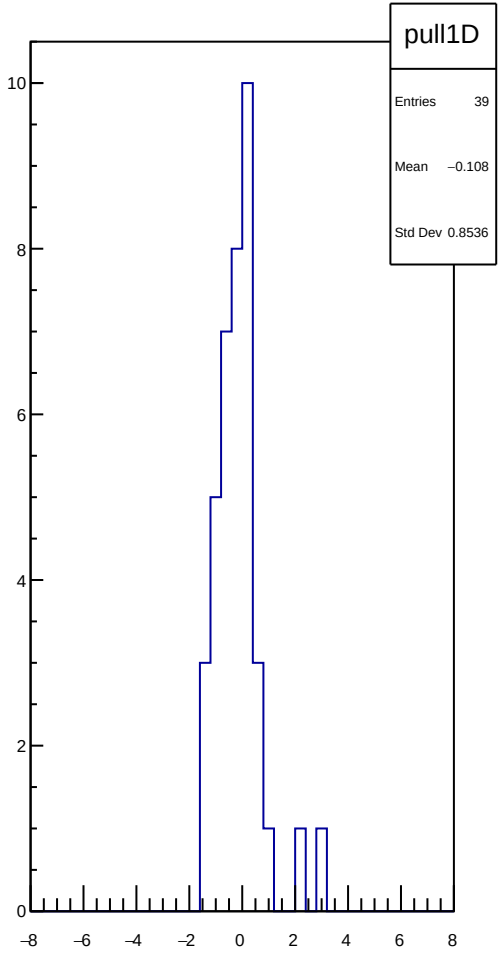

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 42.04 / 38
p0 57.32 ± 6.636
250
200
150
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 85.87
Std Dev 60.48
3
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03977
Std Dev 1.038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

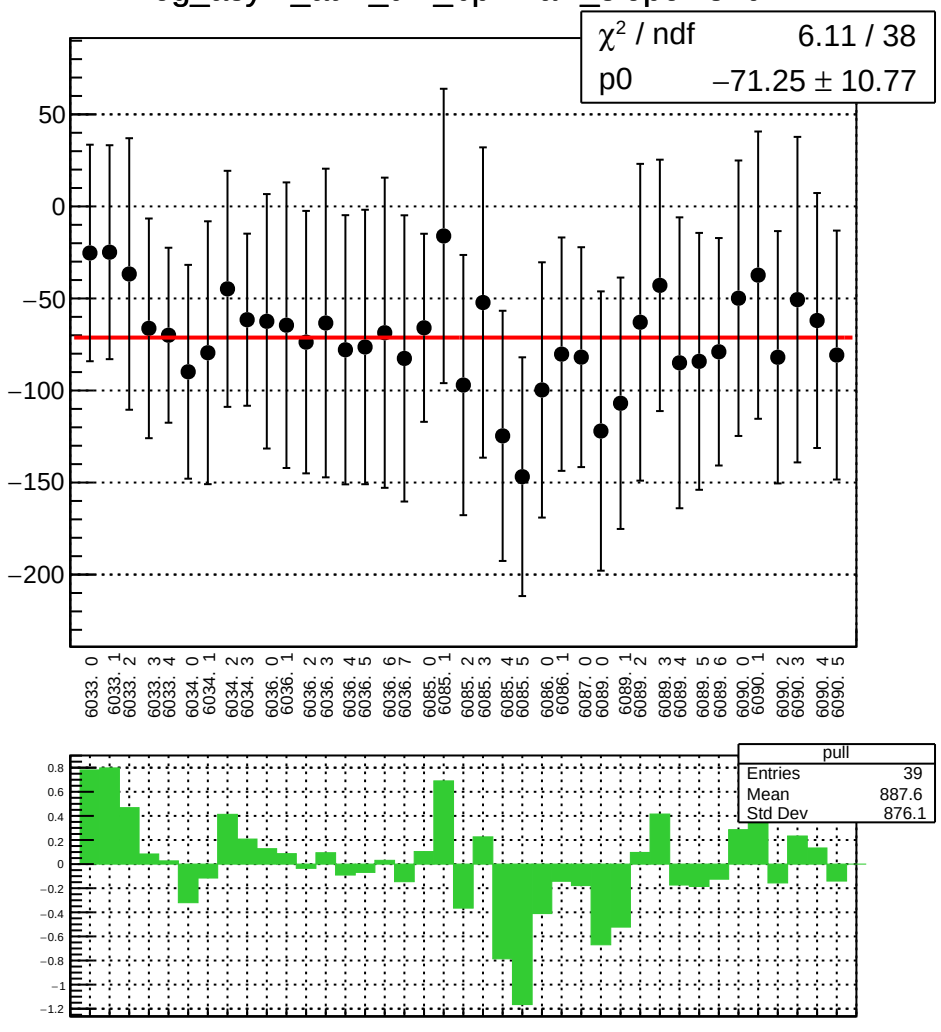

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 42.62 / 38
p0 −47.18 ± 3.921
pull
Entries 39
Mean 143
Std Dev 117.5

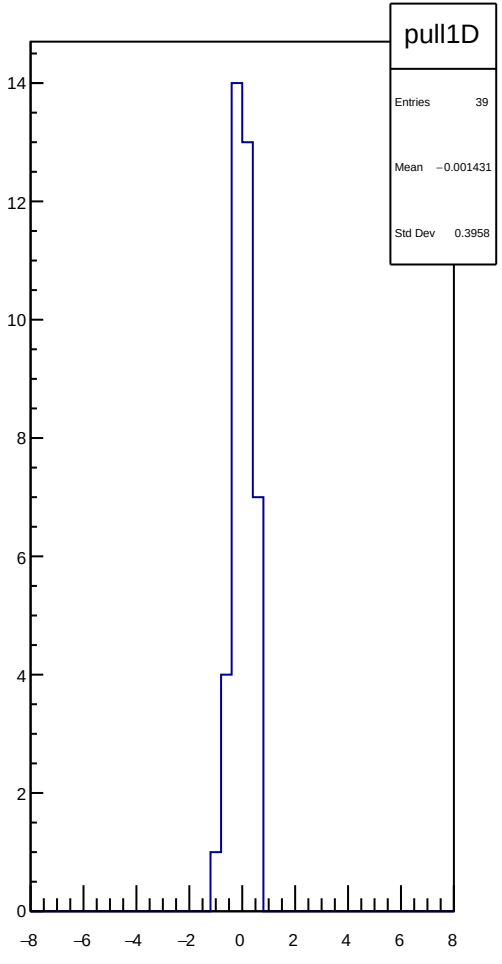

pull1D
Entries 39
Mean −0.01668
Std Dev 1.045

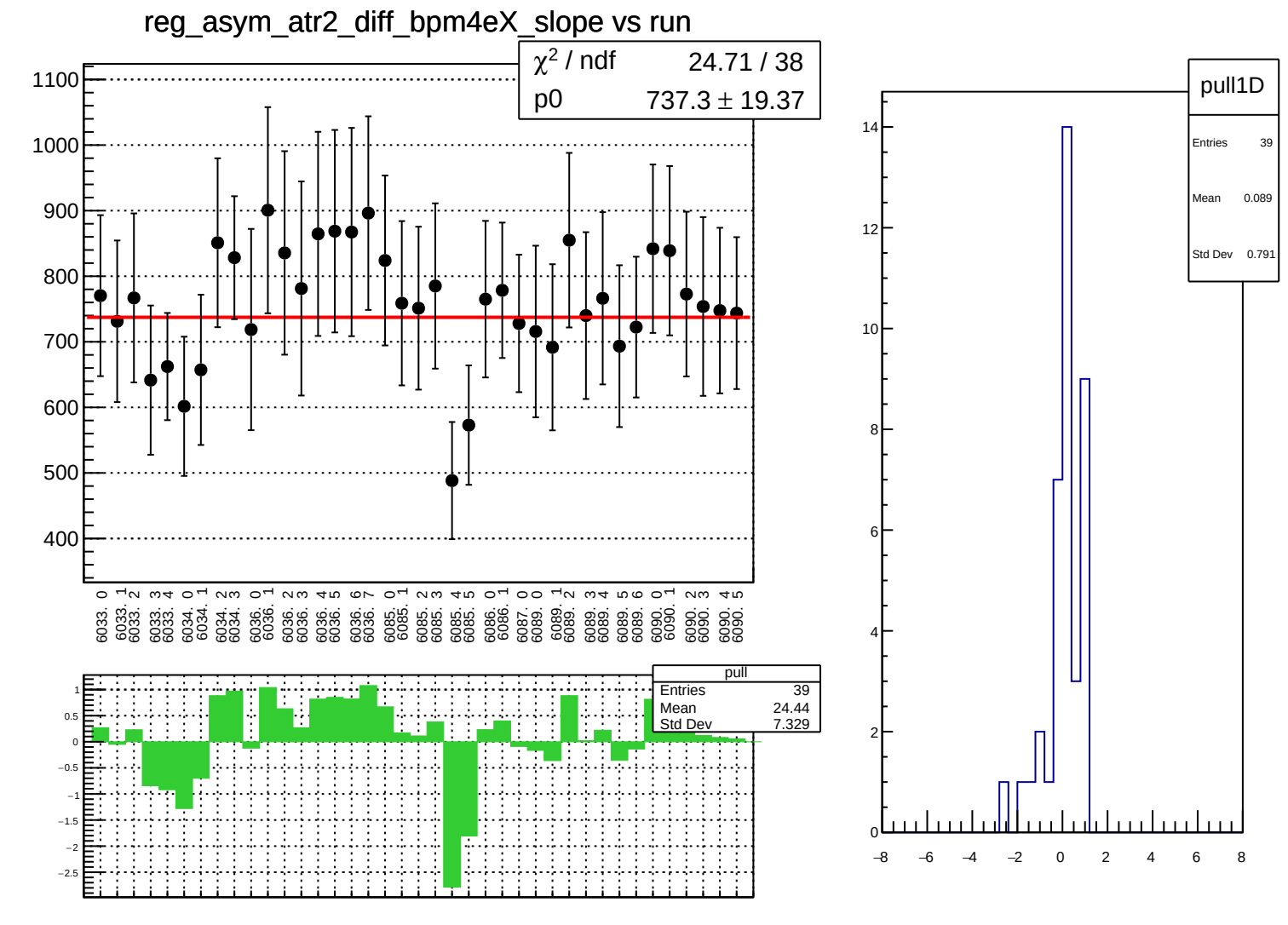

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 104 / 38
p0 −26.33 ± 0.3035
pull
Entries 39
Mean −1762
Std Dev 1782
pull1D
Entries 39
Mean 0.006174
Std Dev 1.633

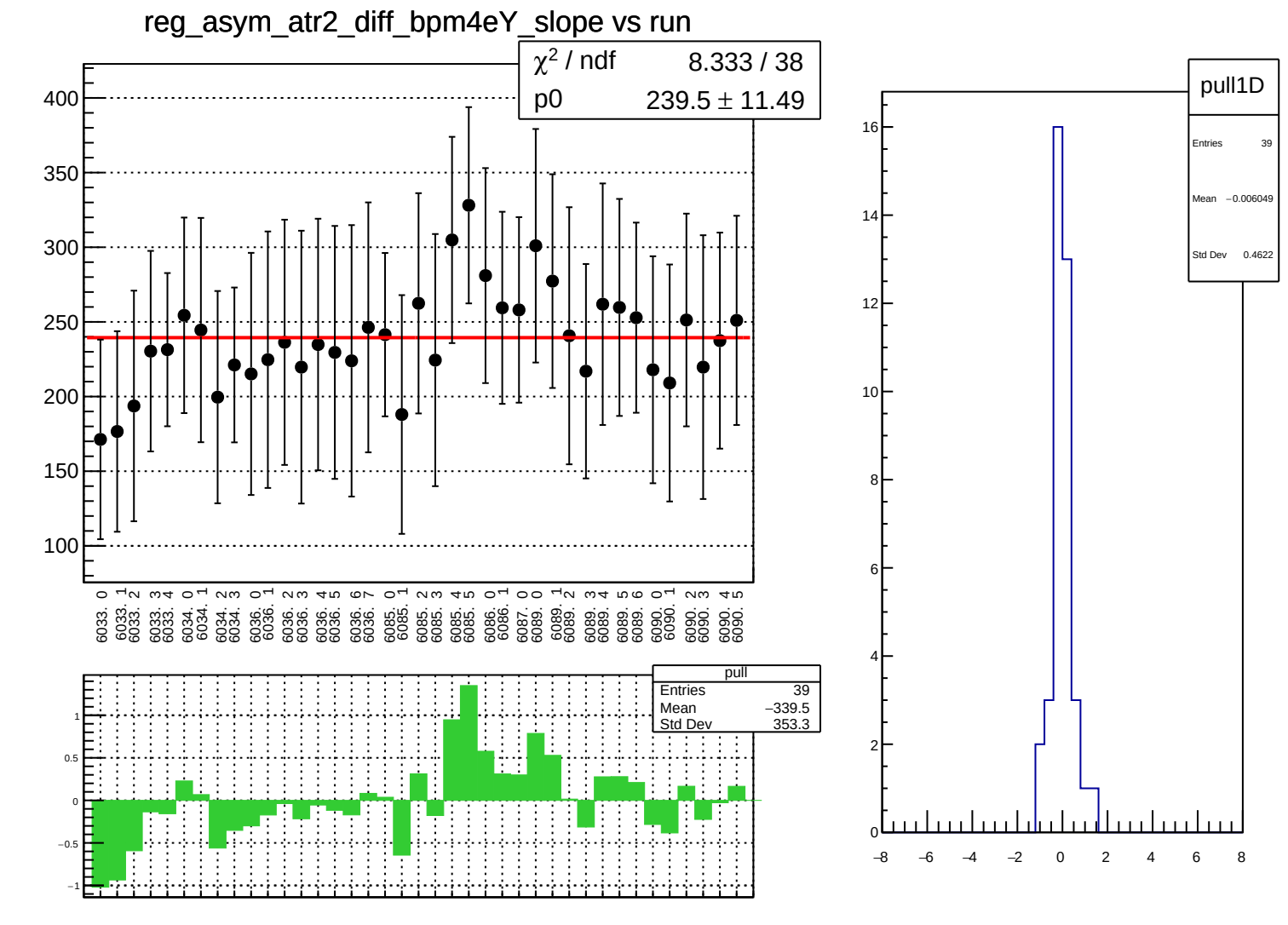

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 28.87 / 38
p0 −517.9 ± 17.24
pull
Entries 39
Mean −1.277
Std Dev 16.9

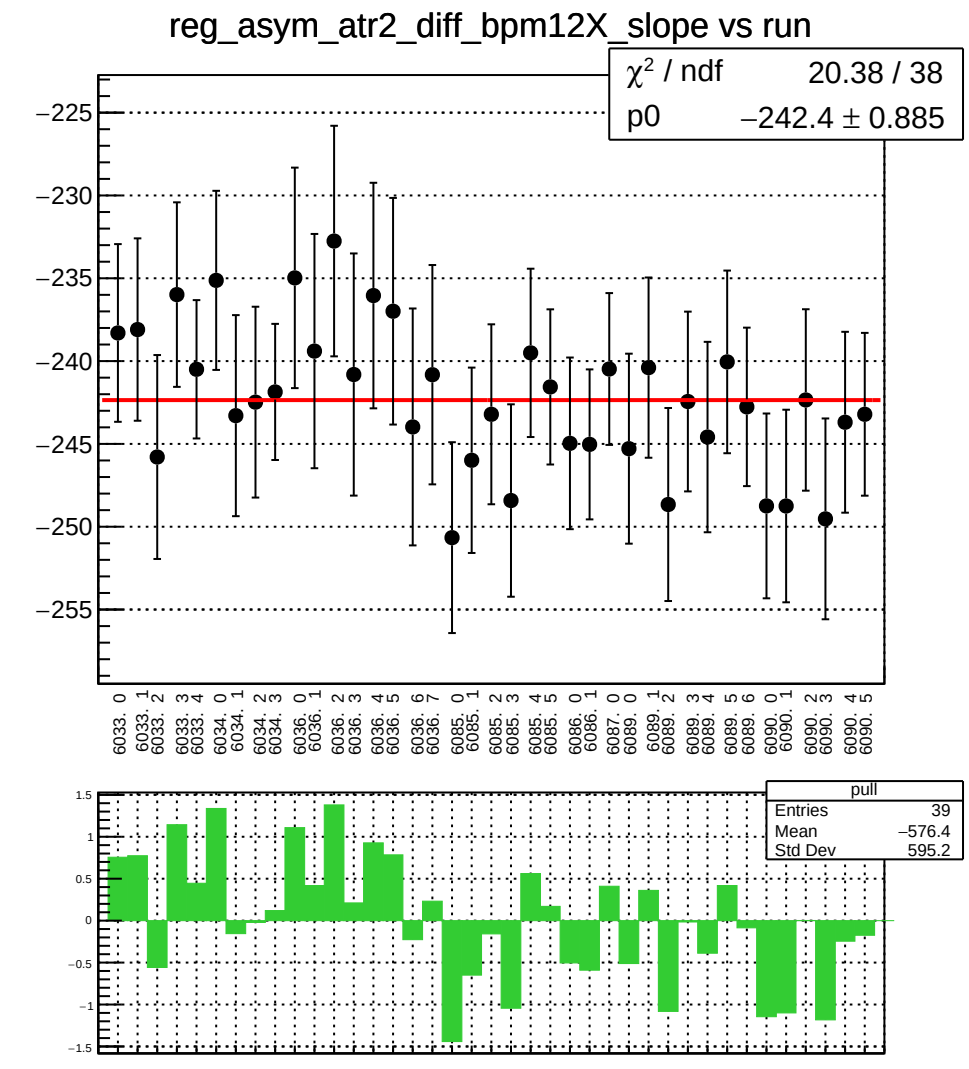

pull1D
Entries 39
Mean −0.108
Std Dev 0.8536

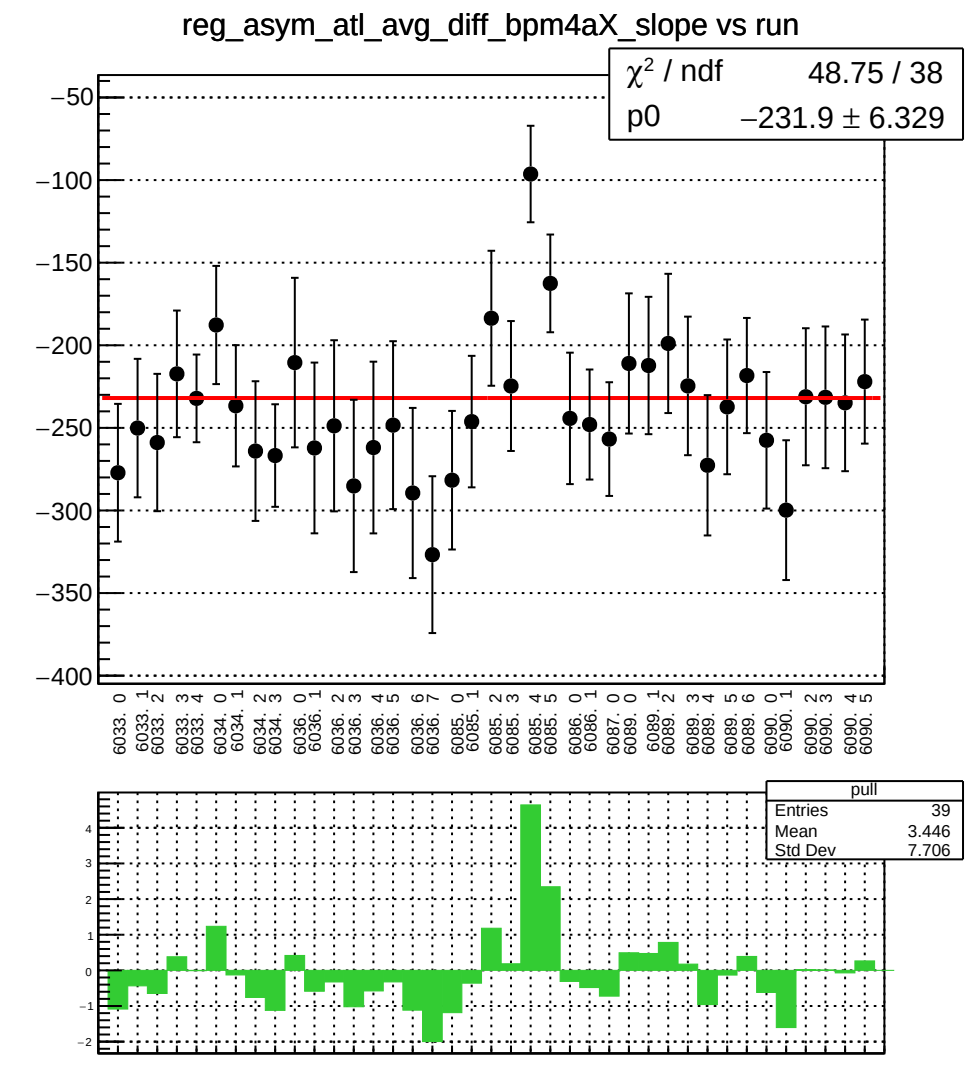

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 6.11 / 38
p0 −71.25 ± 10.77
pull
Entries 39
Mean 887.6
Std Dev 876.1

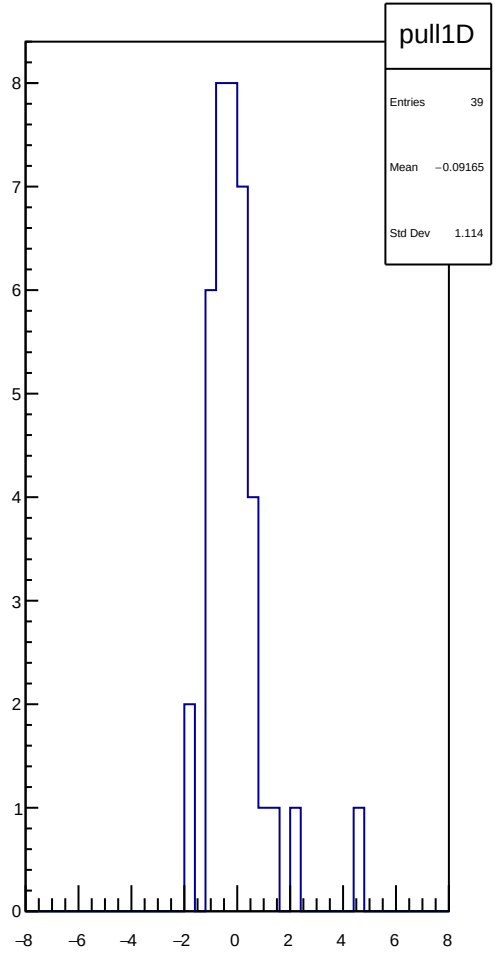

pull1D
Entries 39
Mean −0.001431
Std Dev 0.3958

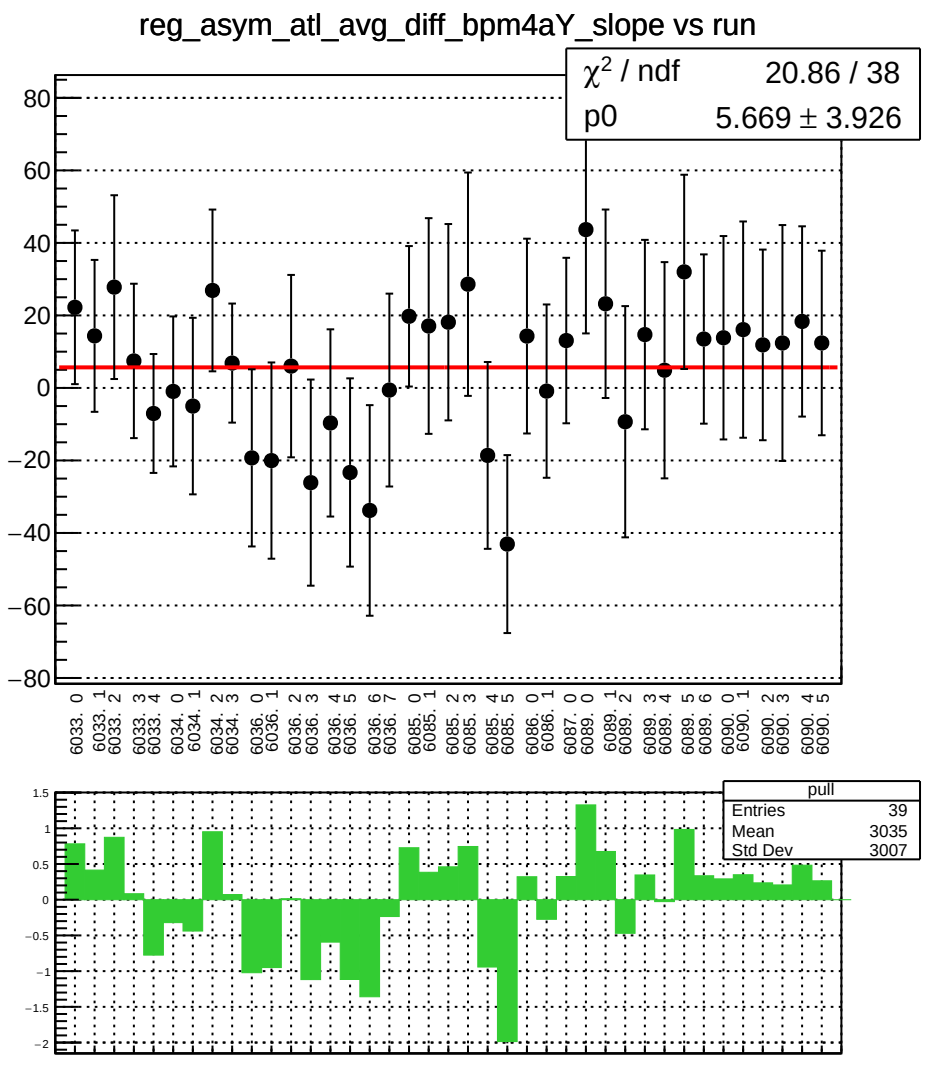

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 24.71 / 38
p0 737.3 ± 19.37
1100
1000
900
800
700
600
500
400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 24.44
Std Dev 7.329
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.089
Std Dev 0.791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

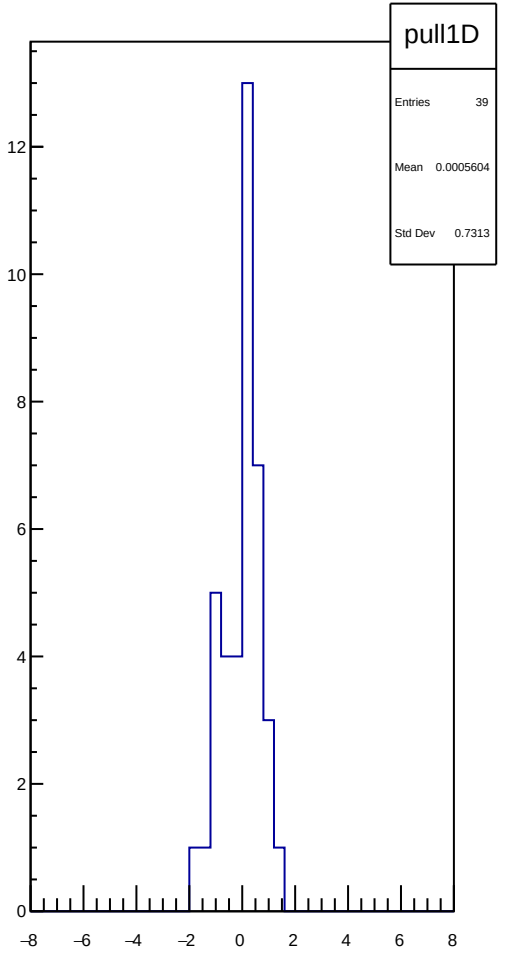

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 8.333 / 38
p0 239.5 ± 11.49
pull
Entries 39
Mean −339.5
Std Dev 353.3
pull1D
Entries 39
Mean −0.006049
Std Dev 0.4622

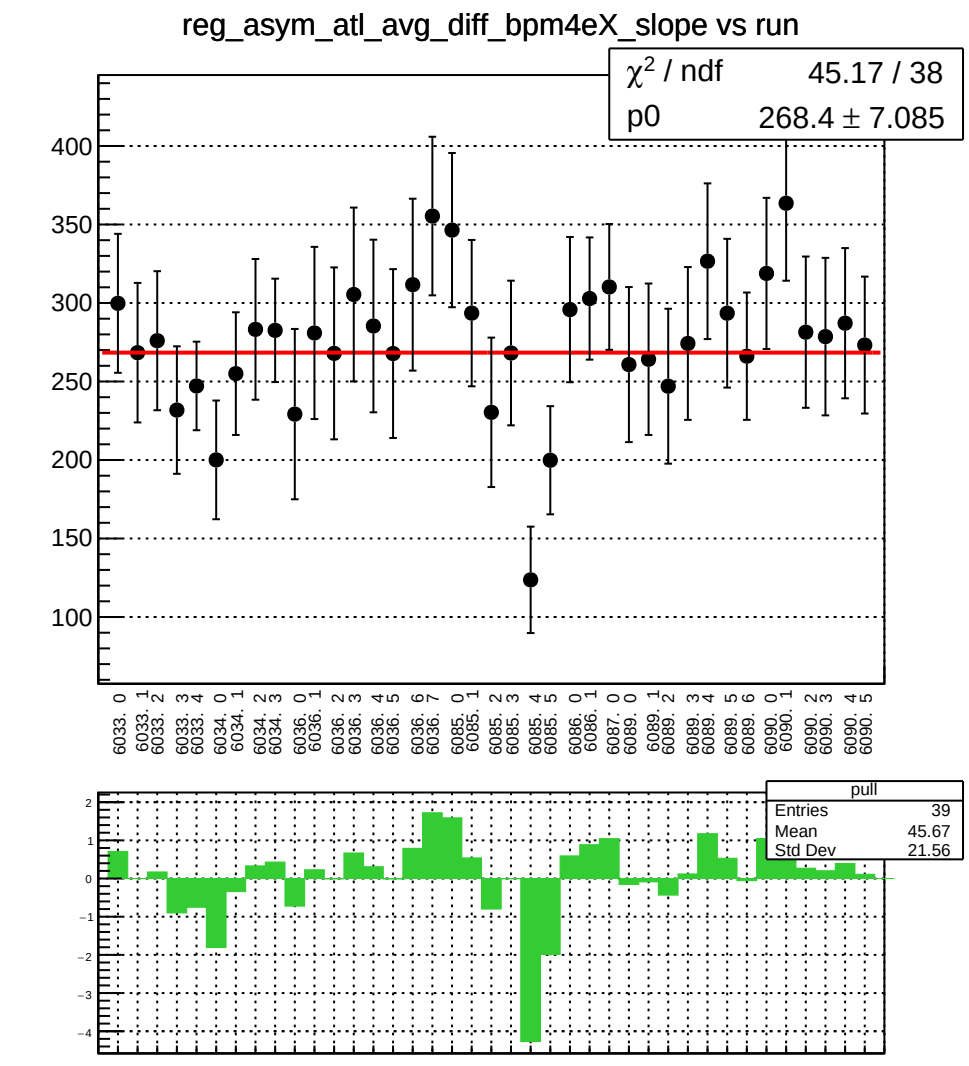

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 20.38 / 38
p0 −242.4 ± 0.885
−225
−230
−235
−240
−245
−250
−255
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −576.4
Std Dev 595.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.007223
Std Dev 0.7228
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

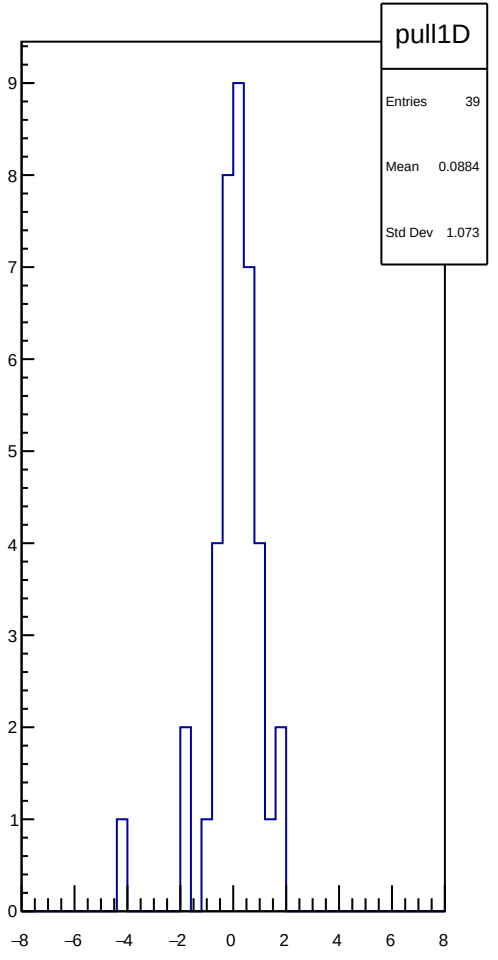

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.75 / 38
p0 −231.9 ± 6.329
pull
Entries 39
Mean 3.446
Std Dev 7.706

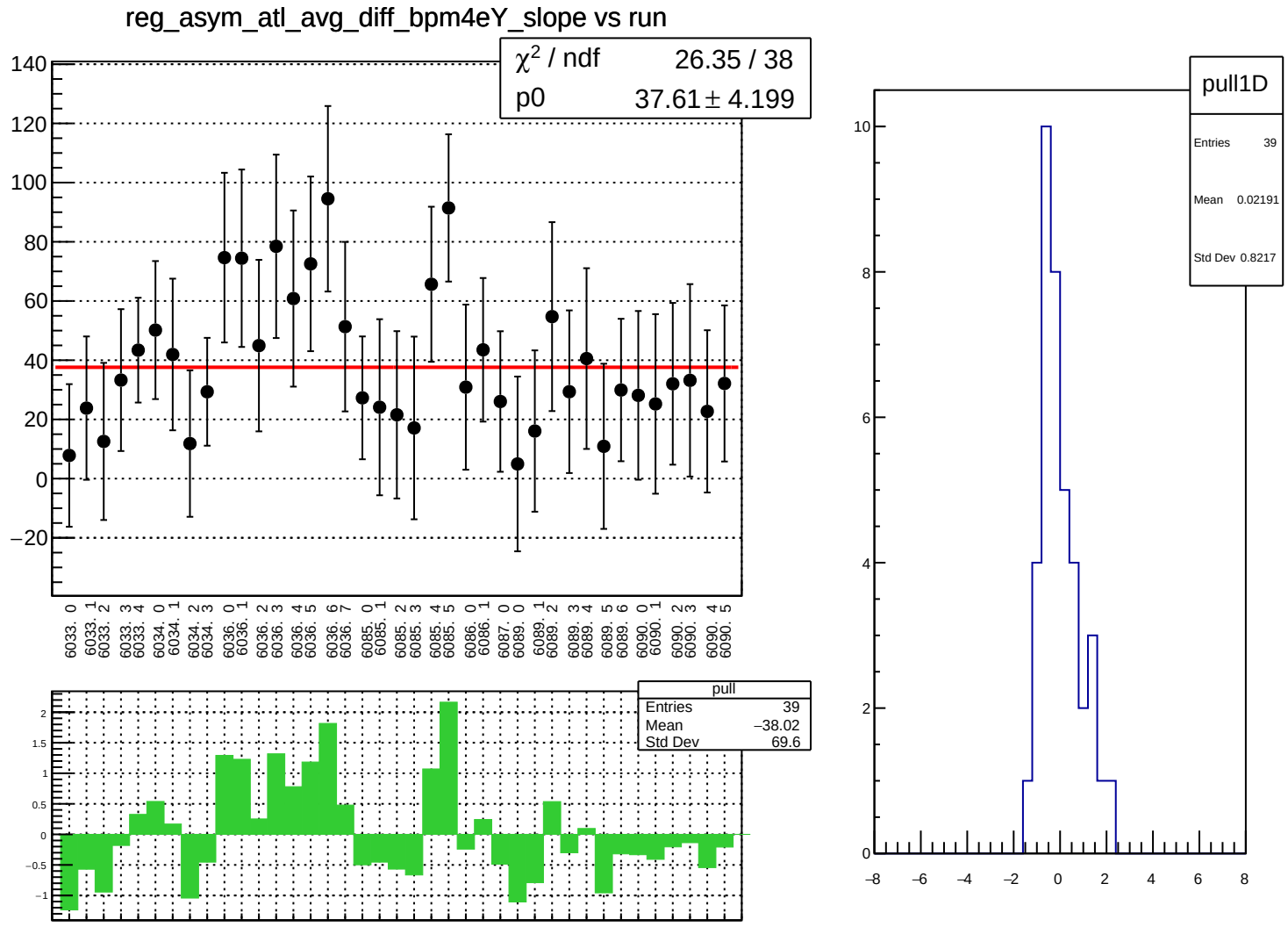

pull1D
Entries 39
Mean −0.09165
Std Dev 1.114

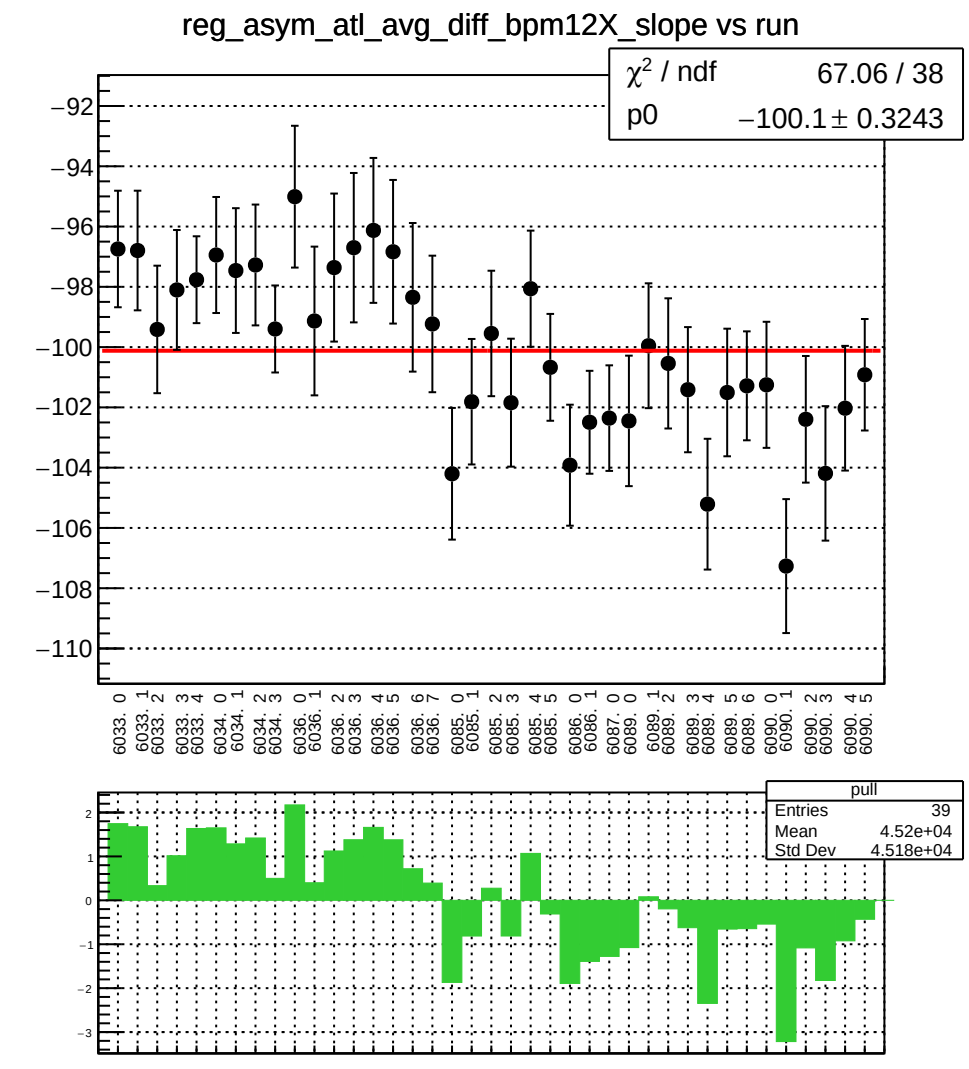

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.86 / 38
p0 5.669 ± 3.926
pull
Entries 39
Mean 3035
Std Dev 3007

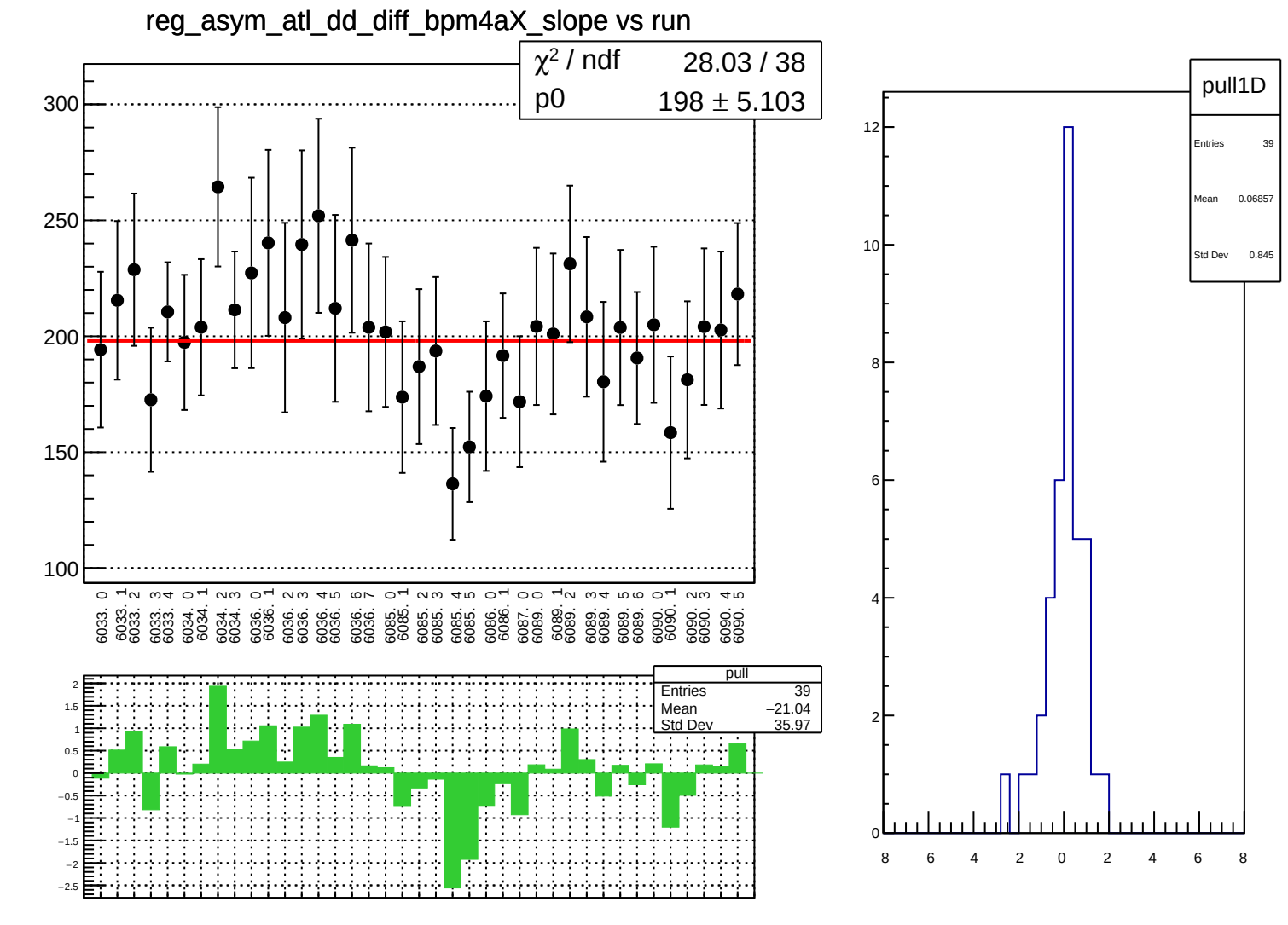

pull1D
Entries 39
Mean 0.0005604
Std Dev 0.7313

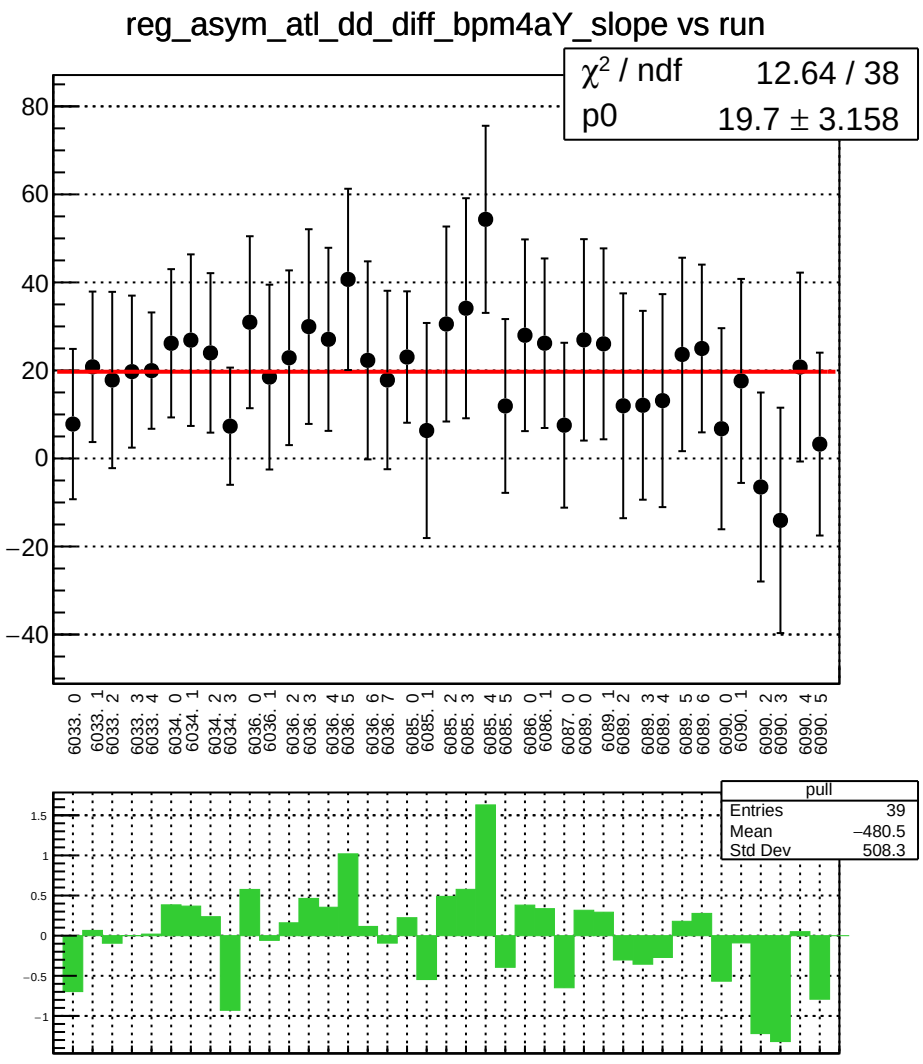

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.17 / 38
p0 268.4 ± 7.085
400
350
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 45.67
Std Dev 21.56
2
1
0
−1
−2
−3
−4

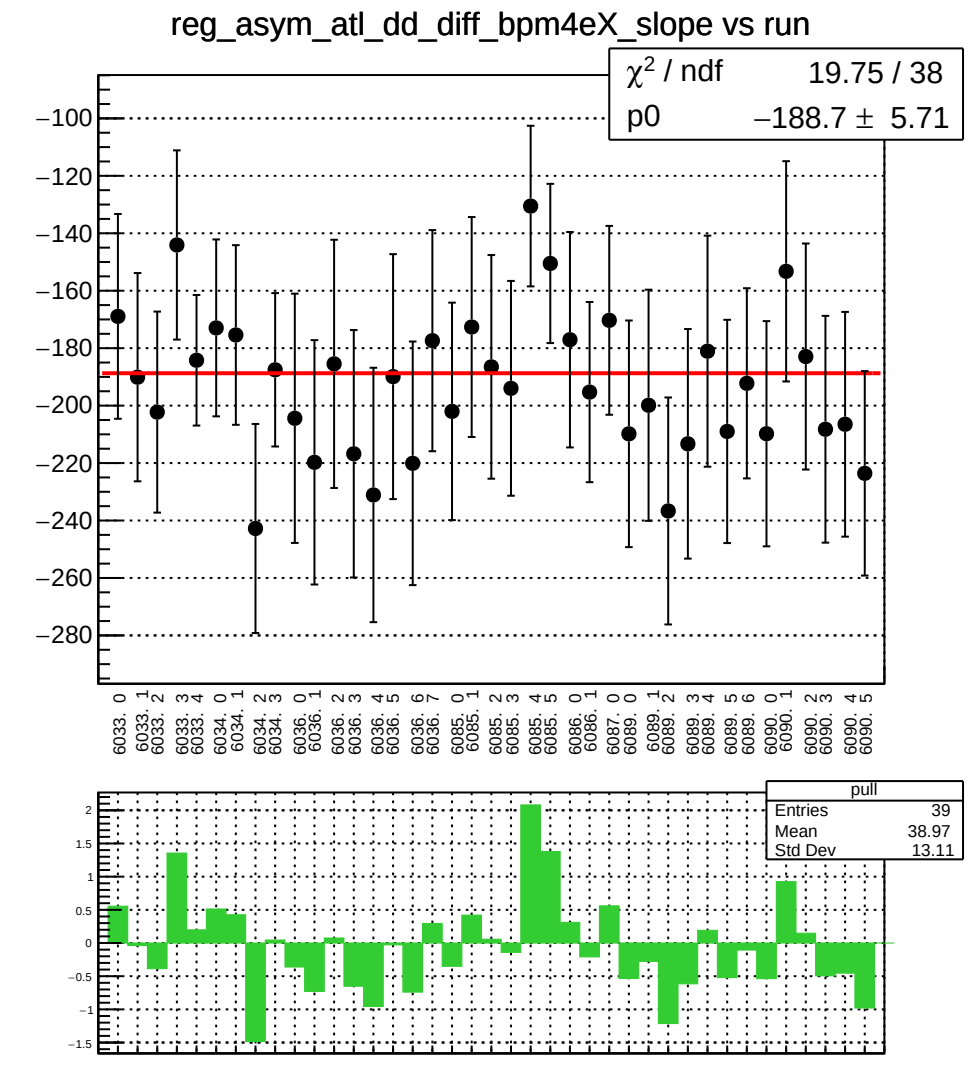

pull1D
Entries 39
Mean 0.0884
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

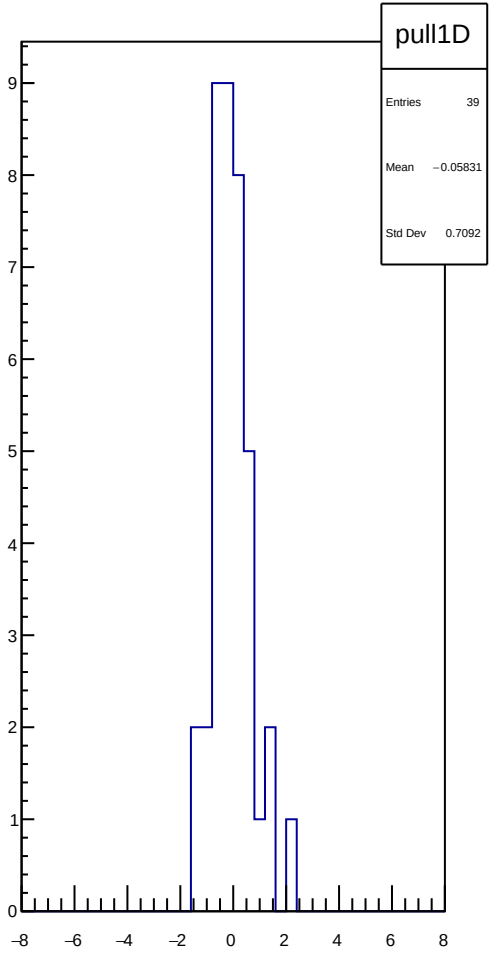

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.35 / 38
p0 37.61 ± 4.199
140
120
100
80
60
40
20
0
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −38.02
Std Dev 69.6
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.02191
Std Dev 0.8217
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

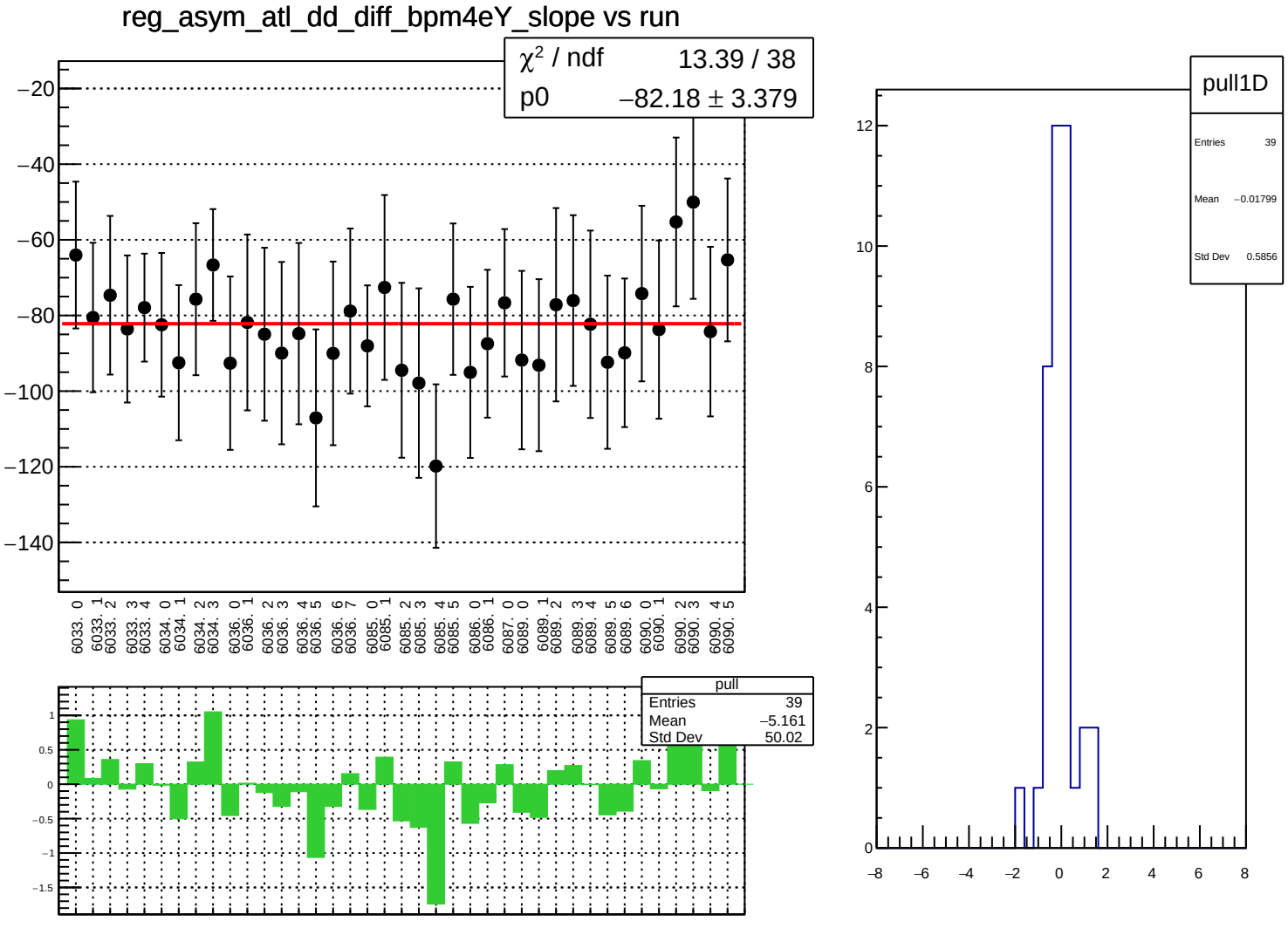

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 67.06 / 38
p0 −100.1 ± 0.3243
−92
−94
−96
−98
−100
−102
−104
−106
−108
−110
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 4.52e+04
Std Dev 4.518e+04
2
1
0
−1
−2
−3
pull1D
Entries 39
Mean −0.0002498
Std Dev 1.311
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

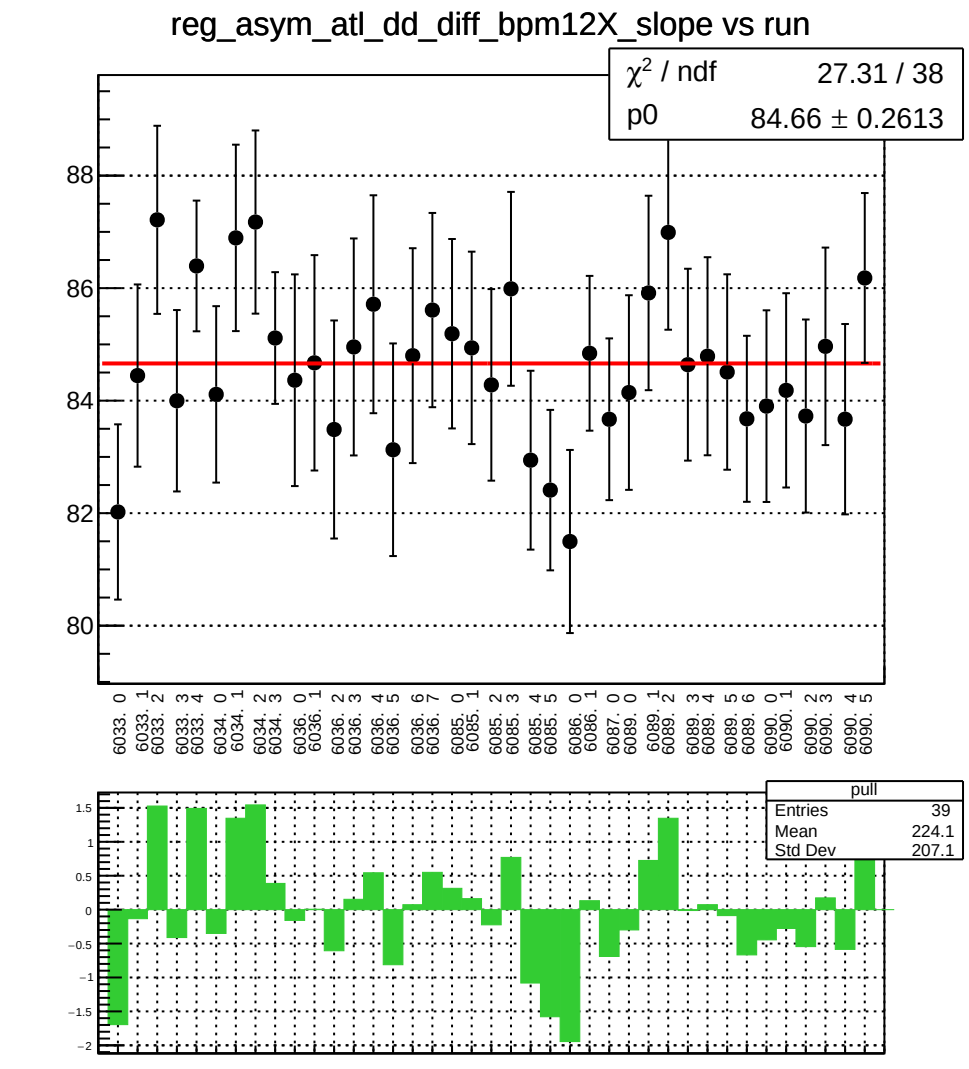

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.03 / 38
p0 198 ± 5.103
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −21.04
Std Dev 35.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 39
Mean 0.06857
Std Dev 0.845
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.64 / 38
p0 19.7 ± 3.158
80
60
40
20
0
−20
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −480.5
Std Dev 508.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.003532
Std Dev 0.5693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.75 / 38
p0 −188.7 ± 5.71
−100
−120
−140
−160
−180
−200
−220
−240
−260
−280
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 38.97
Std Dev 13.11
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean −0.05831
Std Dev 0.7092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.39 / 38
p0 −82.18 ± 3.379
−20
−40
−60
−80
−100
−120
−140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −5.161
Std Dev 50.02
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01799
Std Dev 0.5856
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 27.31 / 38
p0 84.66 ± 0.2613
88
86
84
82
80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
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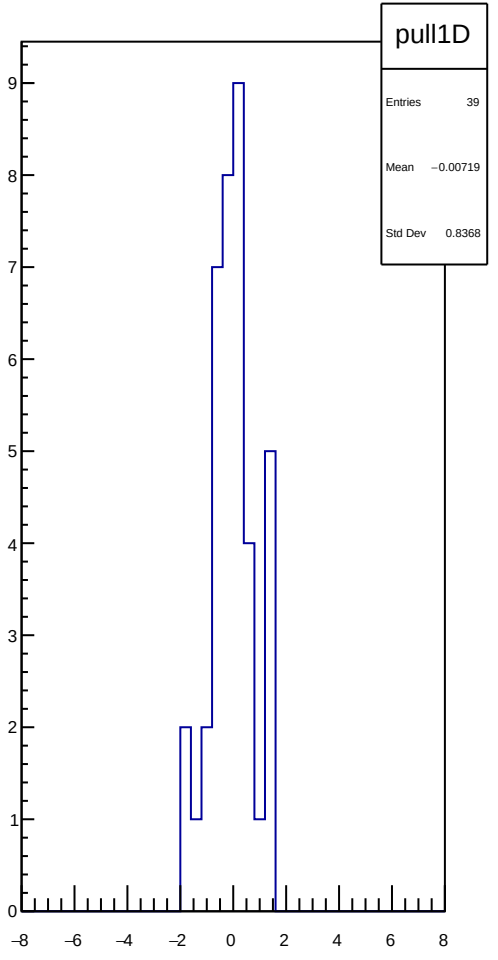
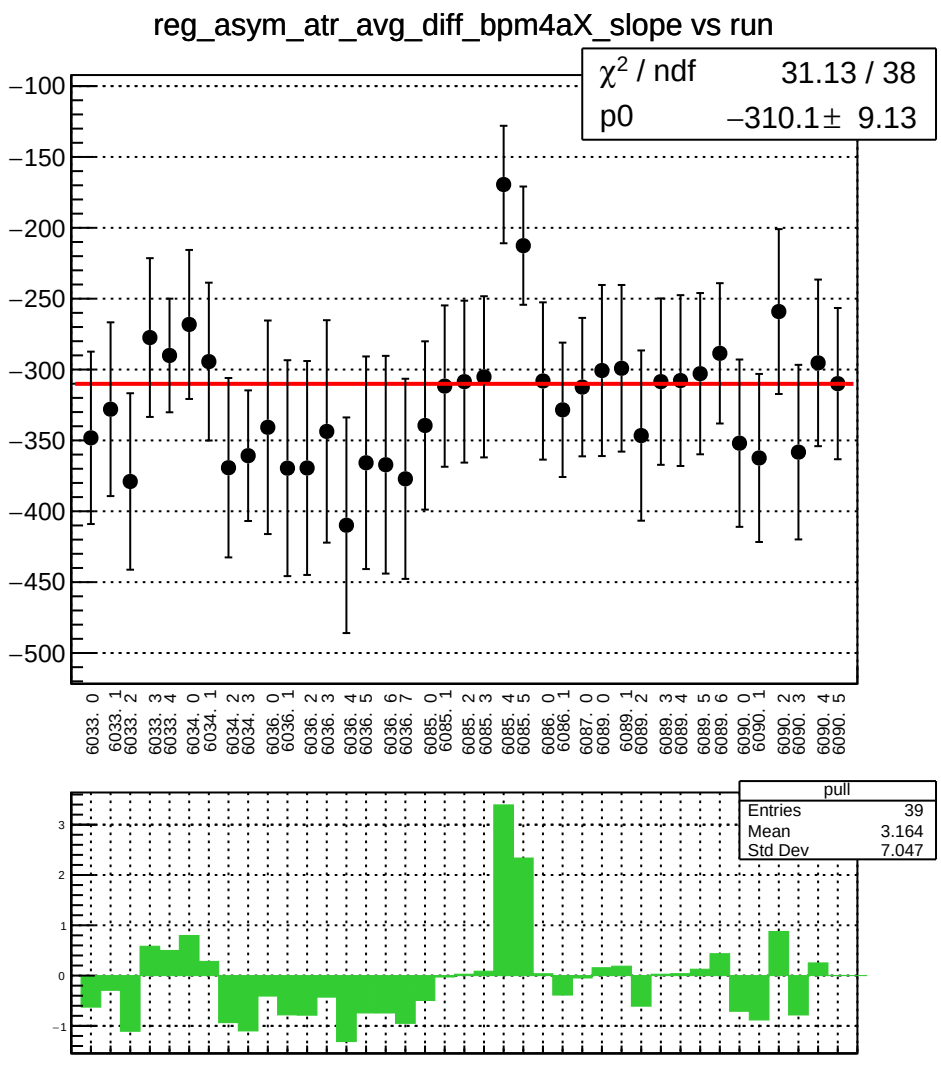
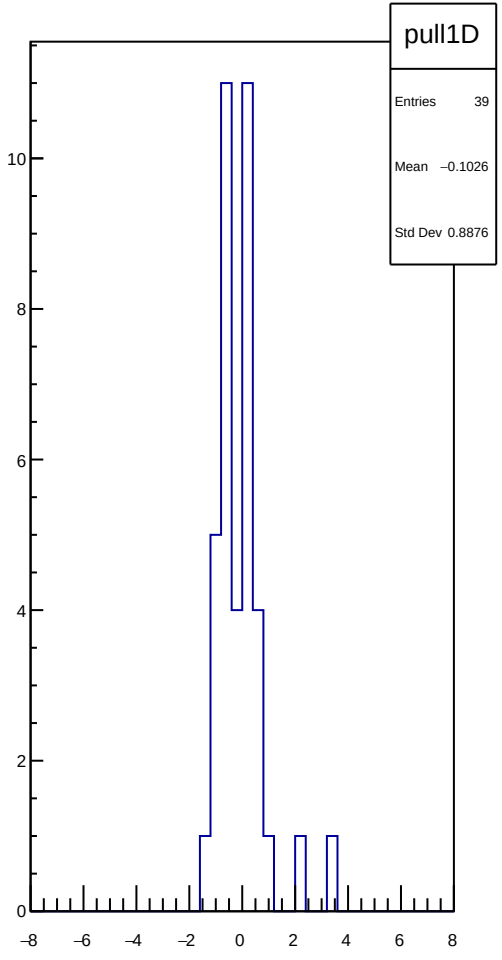
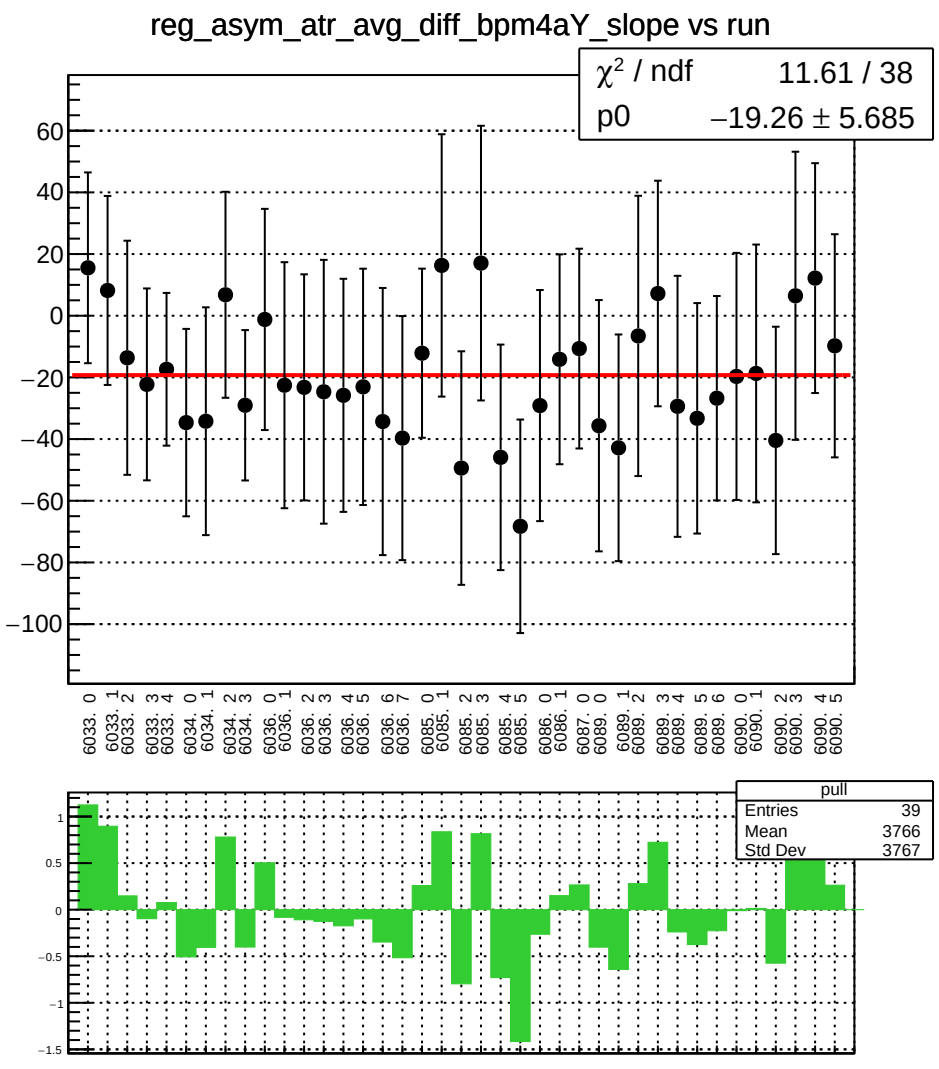
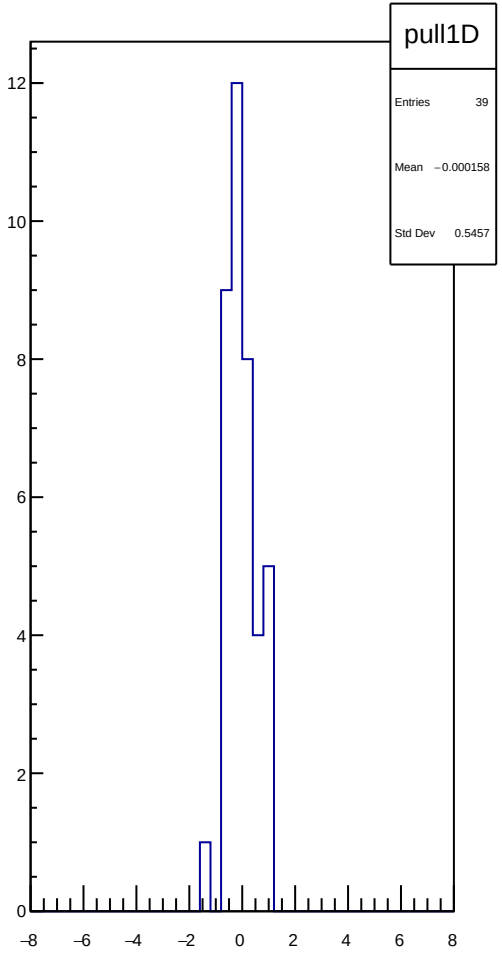
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 224.1
Std Dev 207.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

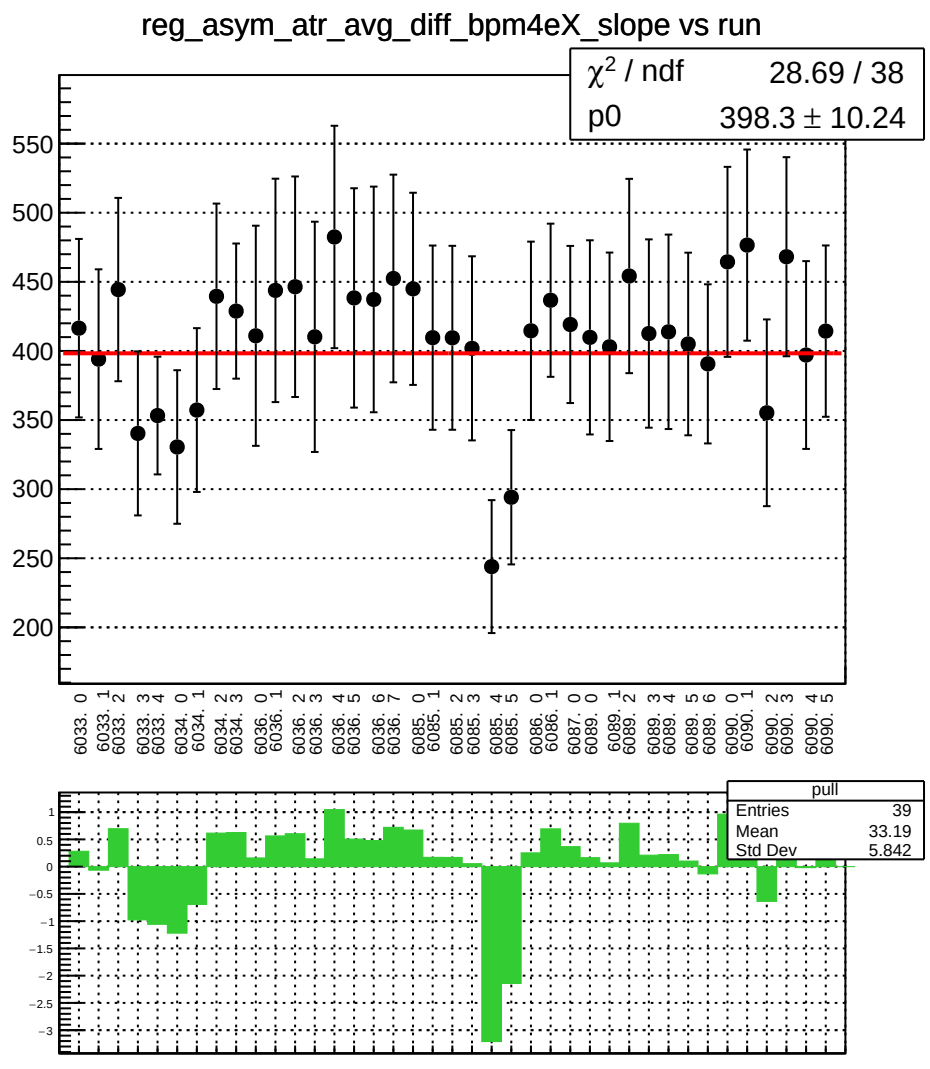

pull1D
Entries 39
Mean −0.00719
Std Dev 0.8368
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

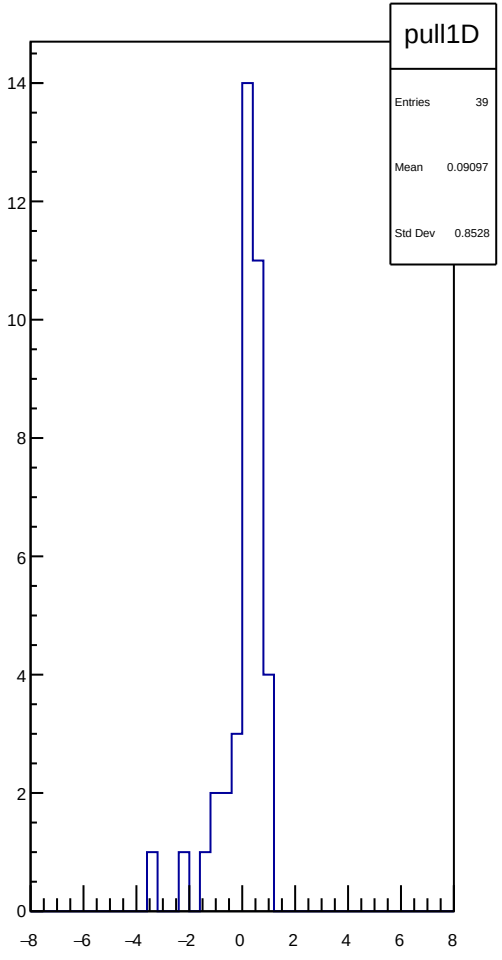

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.13 / 38
p0 −310.1± 9.13
−100
−150
−200
−250
−300
−350
−400
−450
−500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.164
Std Dev 7.047
3
2
1
0
−1

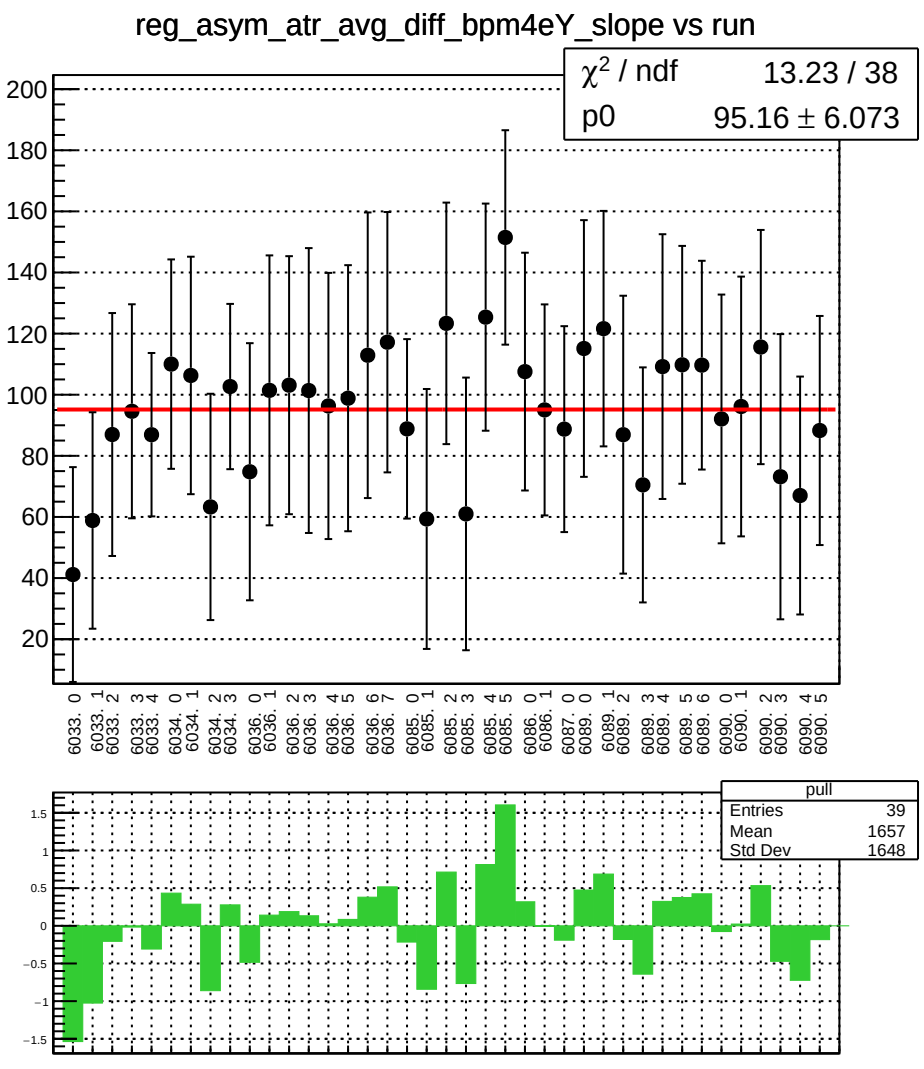

pull1D
Entries 39
Mean −0.1026
Std Dev 0.8876
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

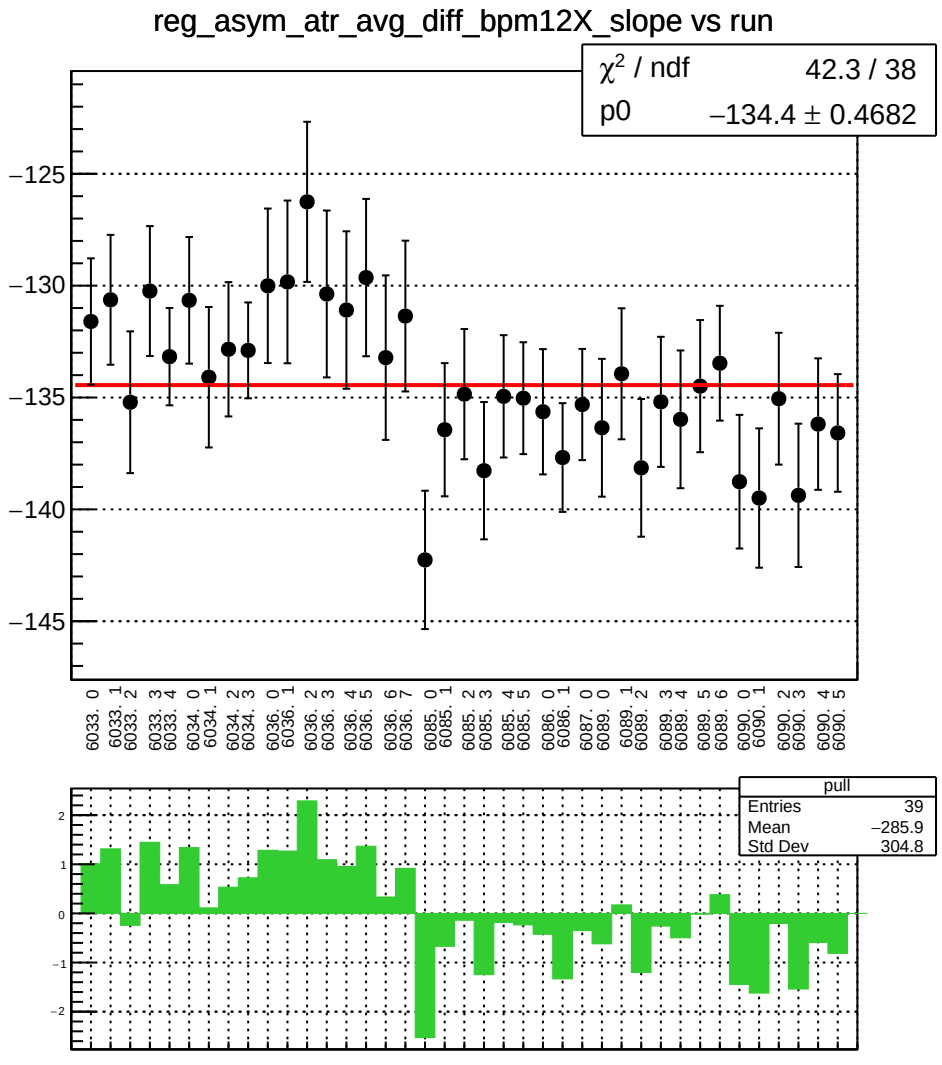

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.61 / 38
p0 −19.26 ± 5.685
60
40
20
0
−20
−40
−60
−80
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3766
Std Dev 3767
1
0.5
0
−0.5
−1
−1.5

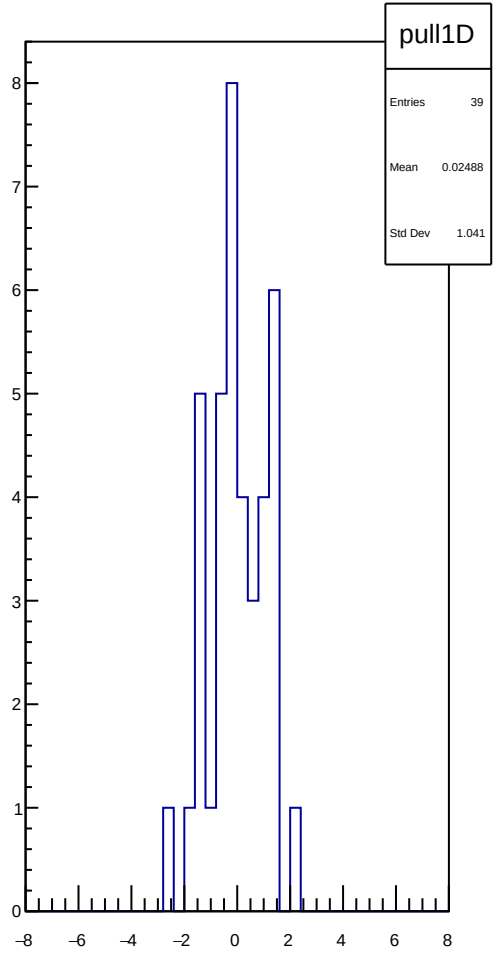

pull1D
Entries 39
Mean −0.000158
Std Dev 0.5457
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

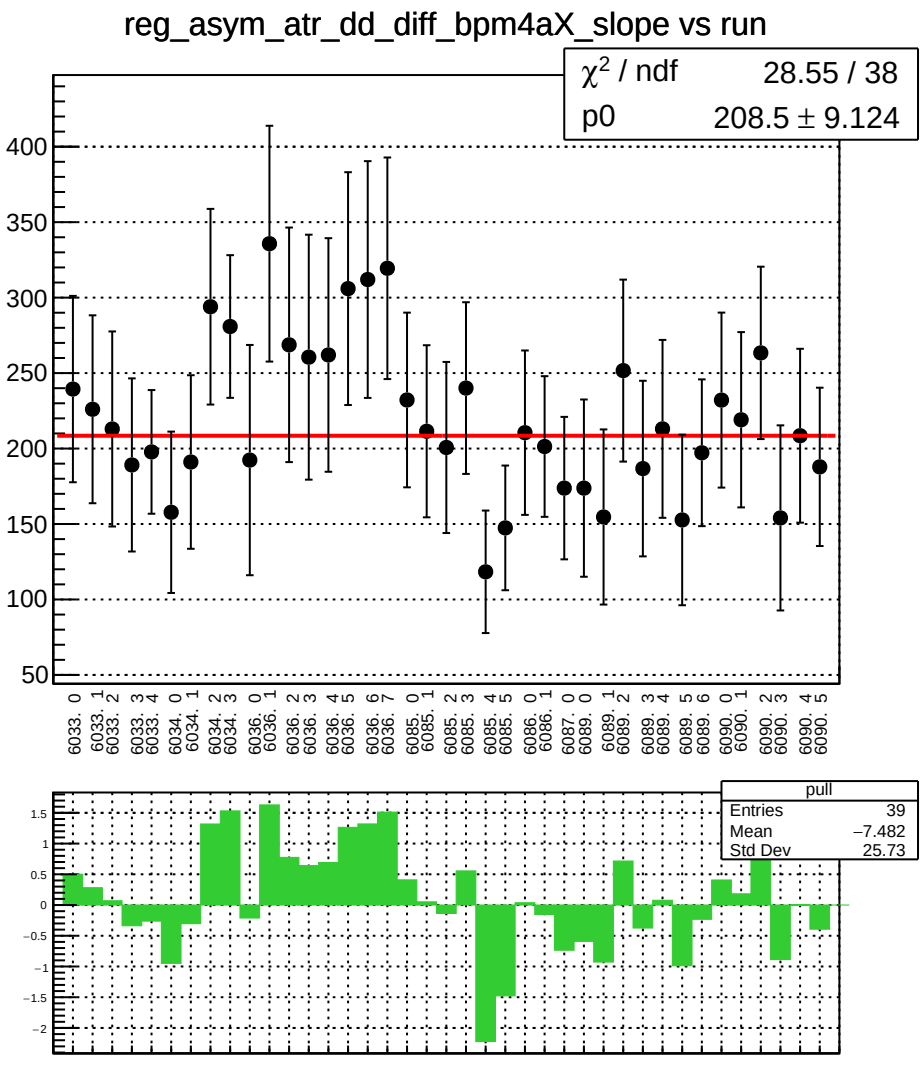

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.69 / 38
p0 398.3 ± 10.24
550
500
450
400
350
300
250
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 33.19
Std Dev 5.842
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

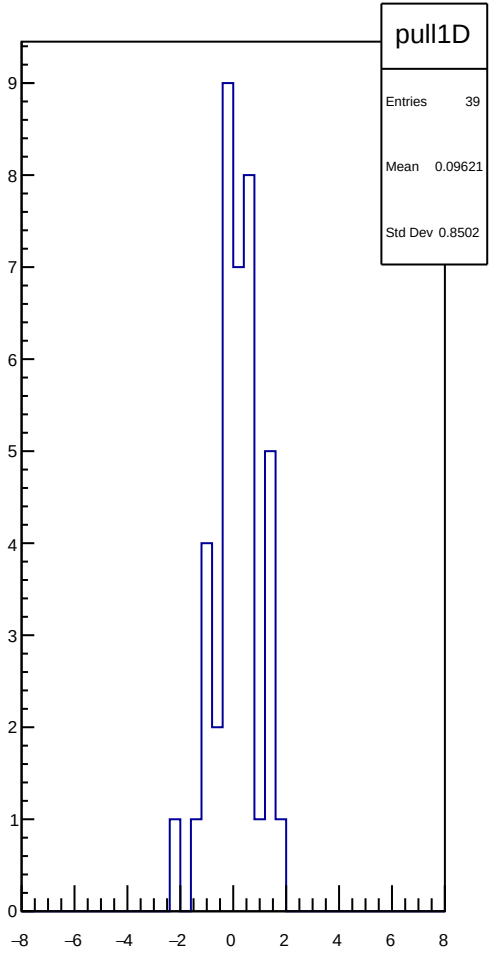

pull1D
Entries 39
Mean 0.09097
Std Dev 0.8528
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

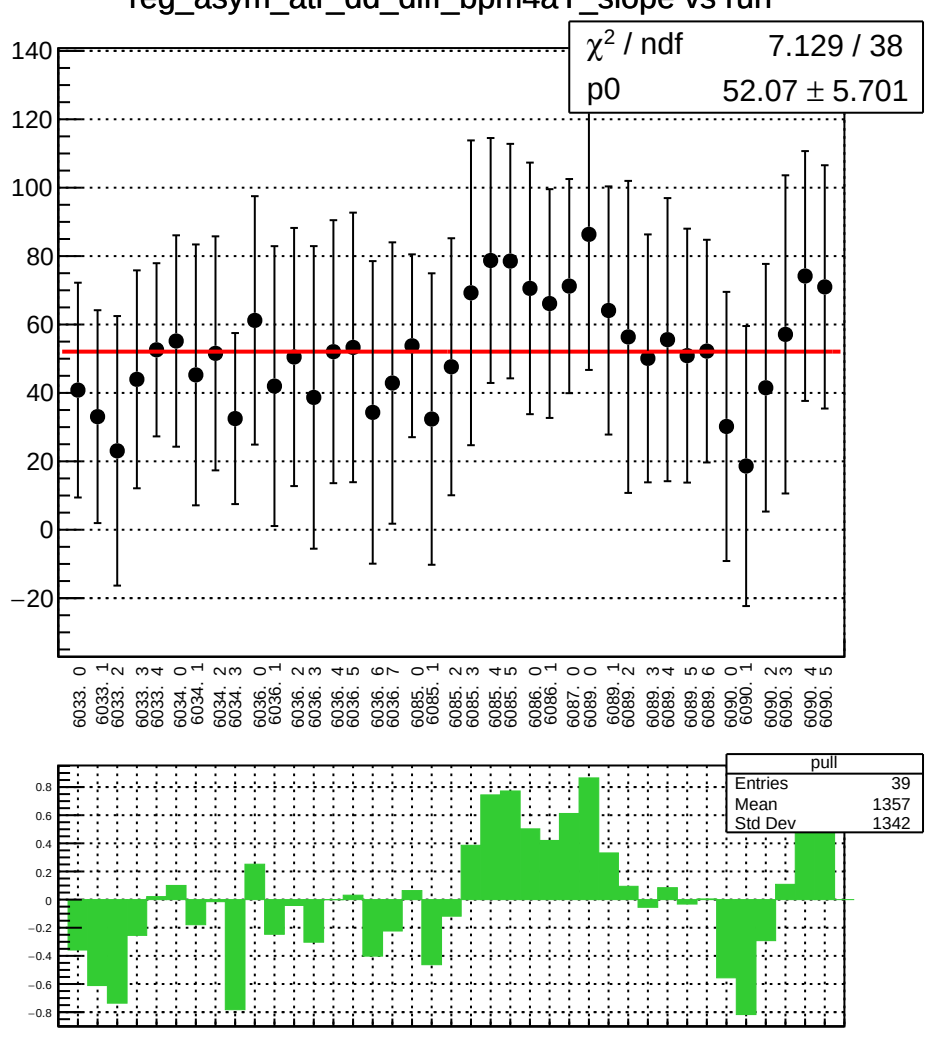

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.23 / 38
p0 95.16 ± 6.073
200
180
160
140
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 1657
Std Dev 1648
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0008725
Std Dev 0.5824
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

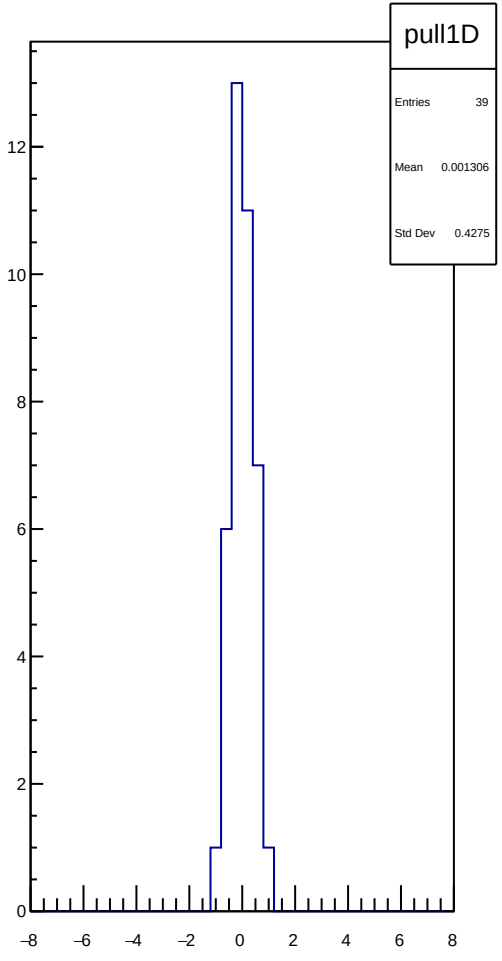

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 42.3 / 38
p0 −134.4 ± 0.4682
−125
−130
−135
−140
−145
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −285.9
Std Dev 304.8
2
1
0
−1
−2

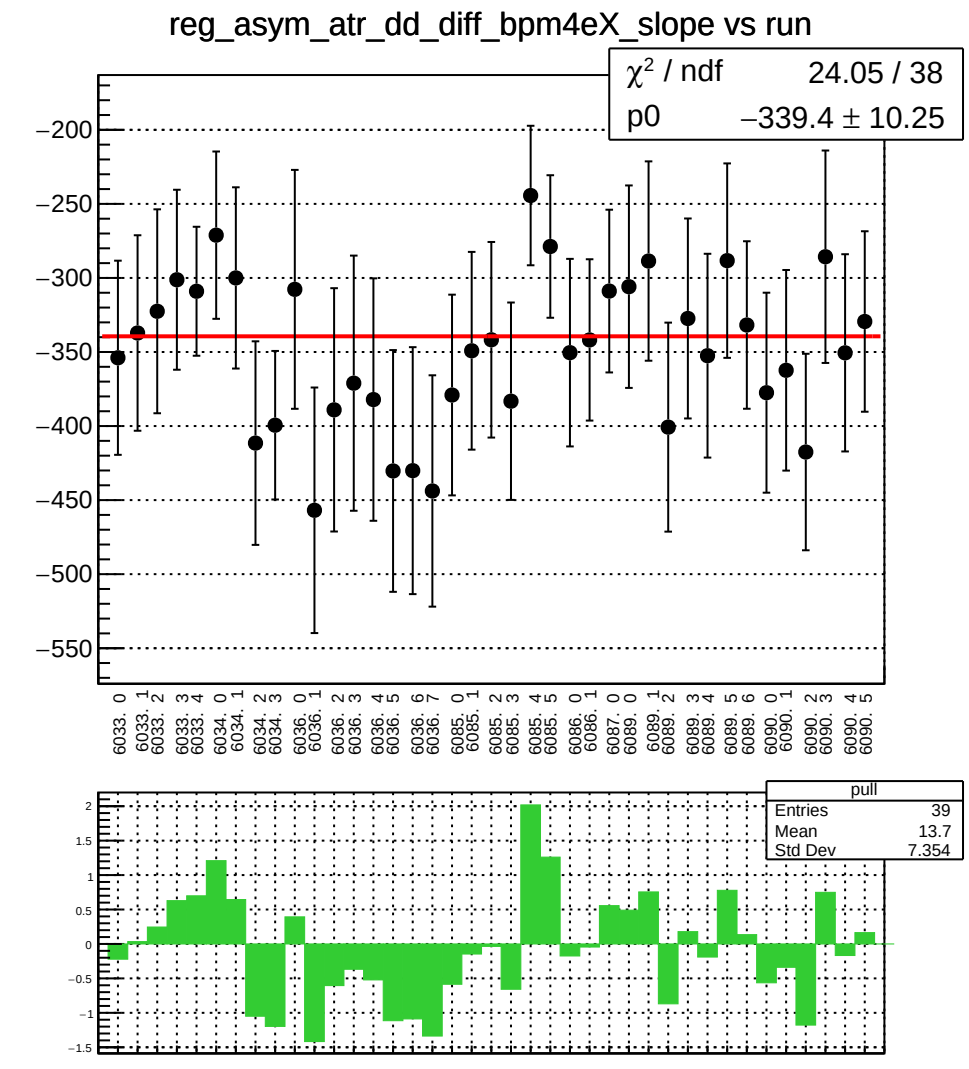

pull1D
Entries 39
Mean 0.02488
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

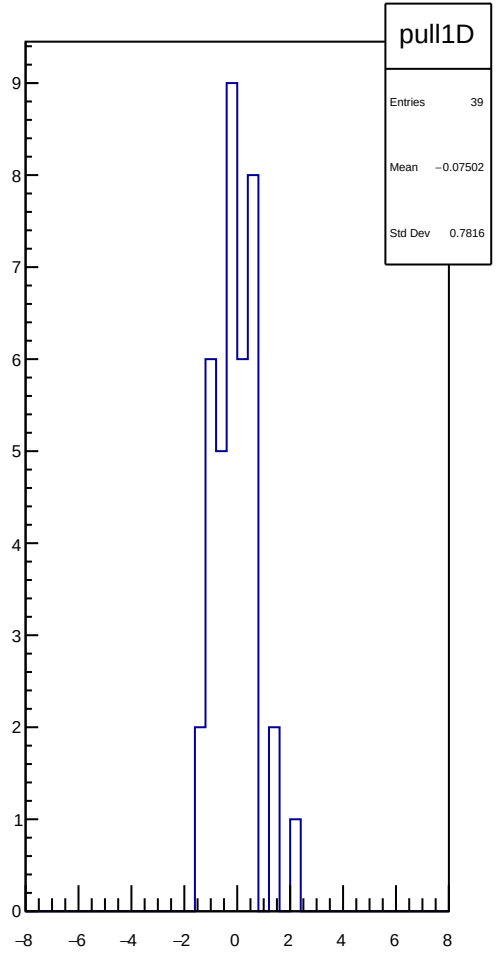

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.55 / 38
p0 208.5 ± 9.124
400
350
300
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −7.482
Std Dev 25.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

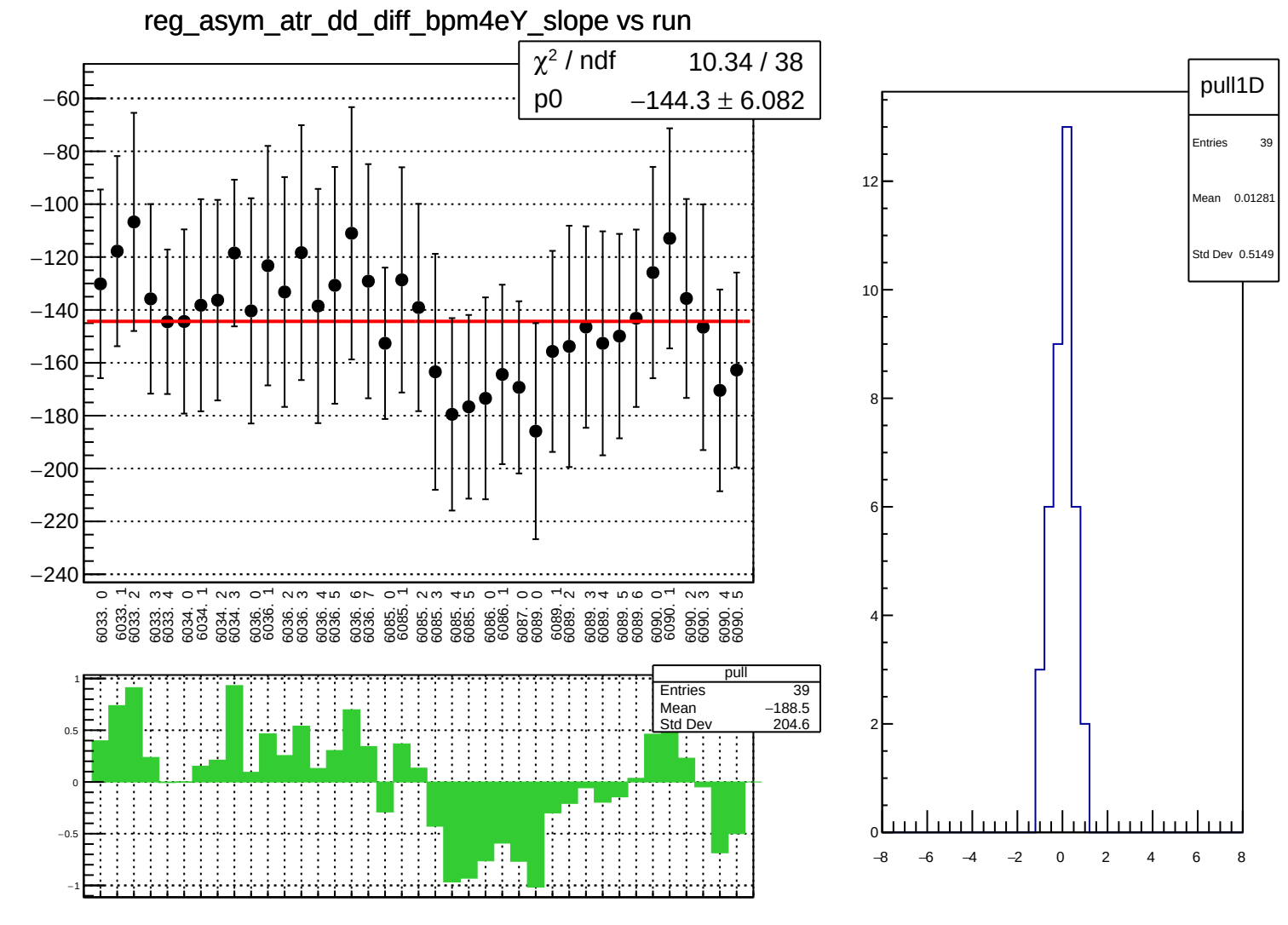

pull1D
Entries 39
Mean 0.09621
Std Dev 0.8502
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

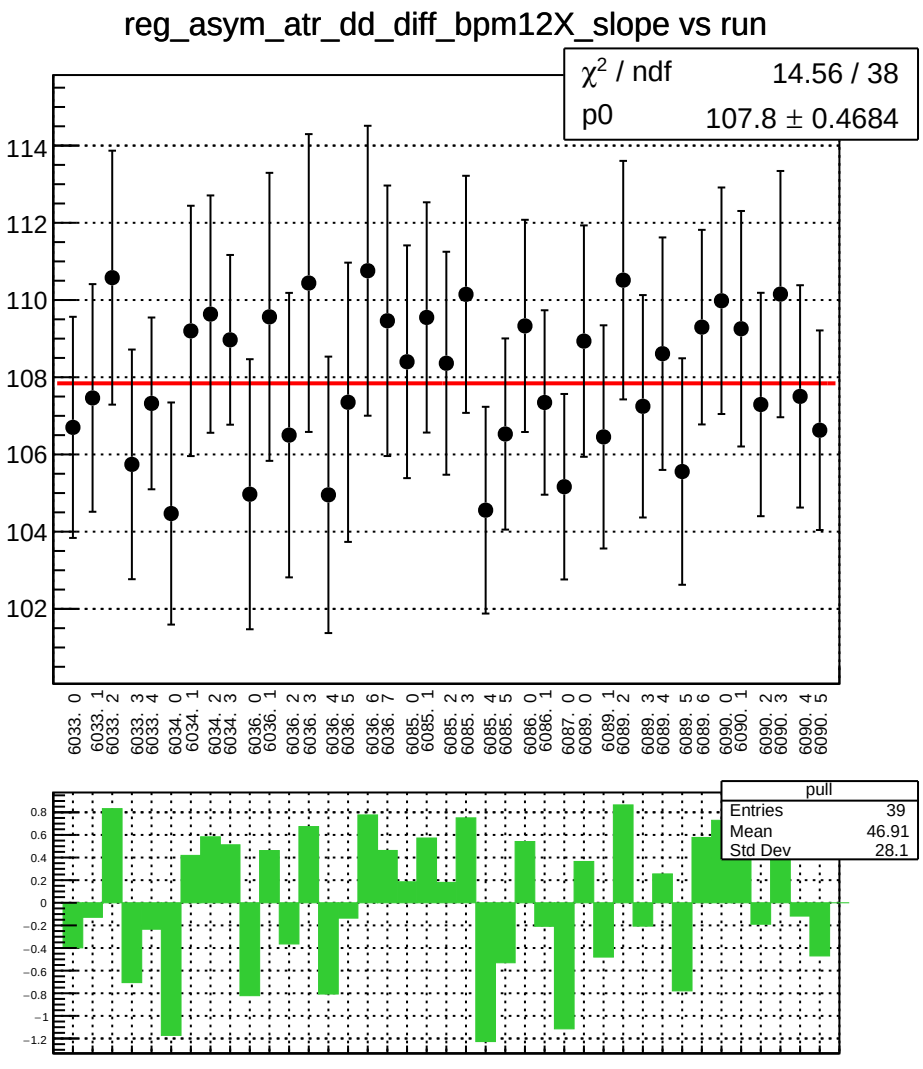

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.129 / 38
p0 52.07 ± 5.701
pull
Entries 39
Mean 1357
Std Dev 1342

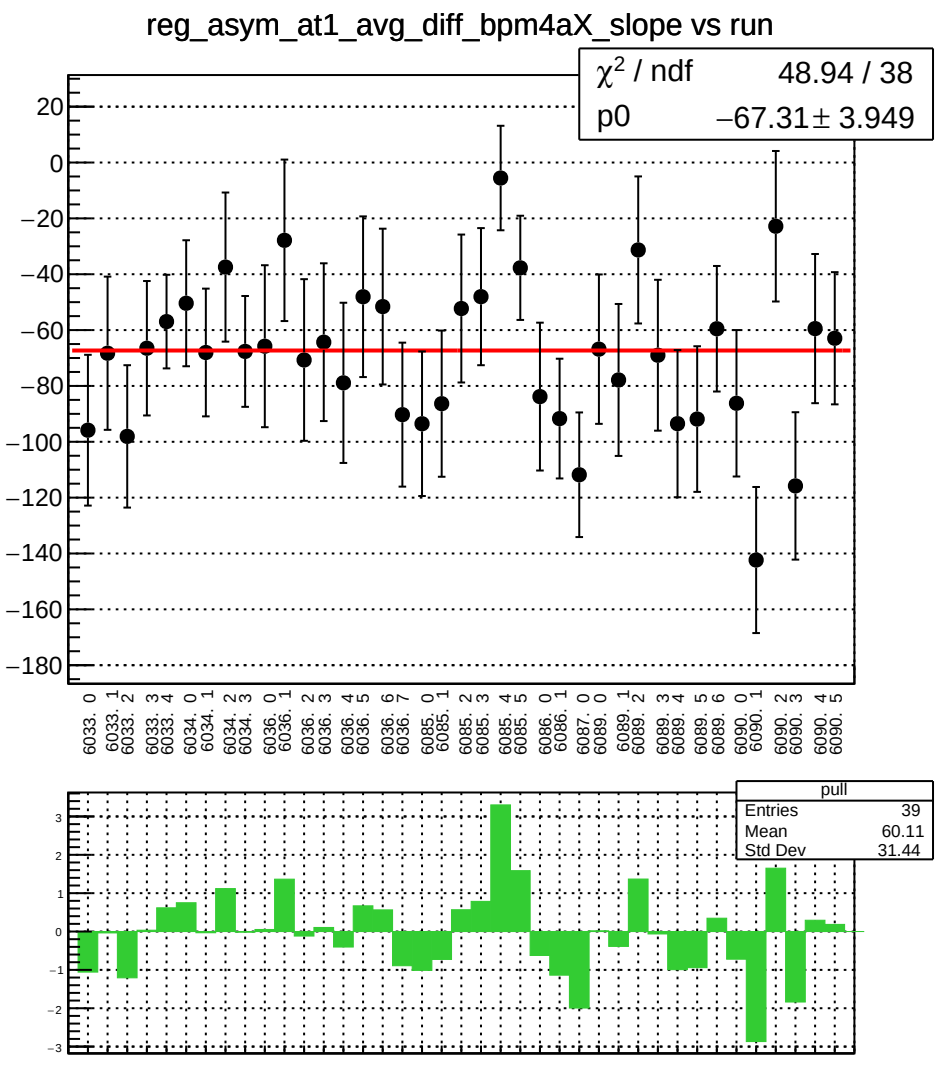

pull1D
Entries 39
Mean 0.001306
Std Dev 0.4275

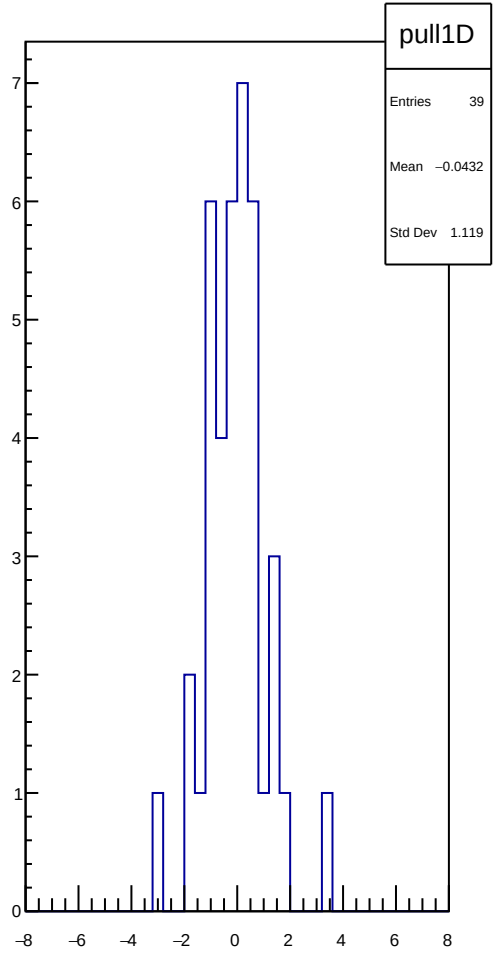

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.05 / 38
p0 −339.4 ± 10.25
pull
Entries 39
Mean 13.7
Std Dev 7.354

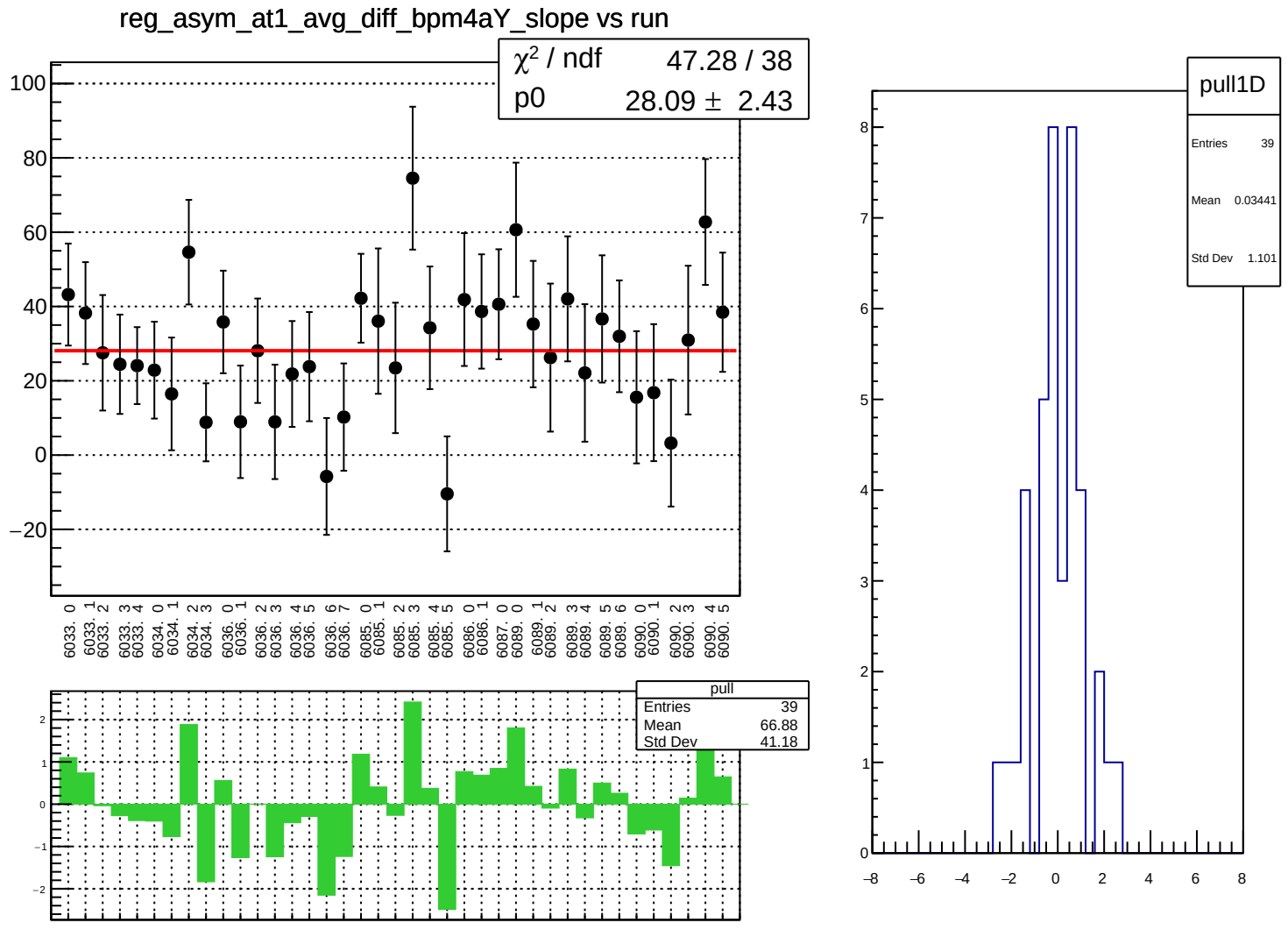

pull1D
Entries 39
Mean −0.07502
Std Dev 0.7816

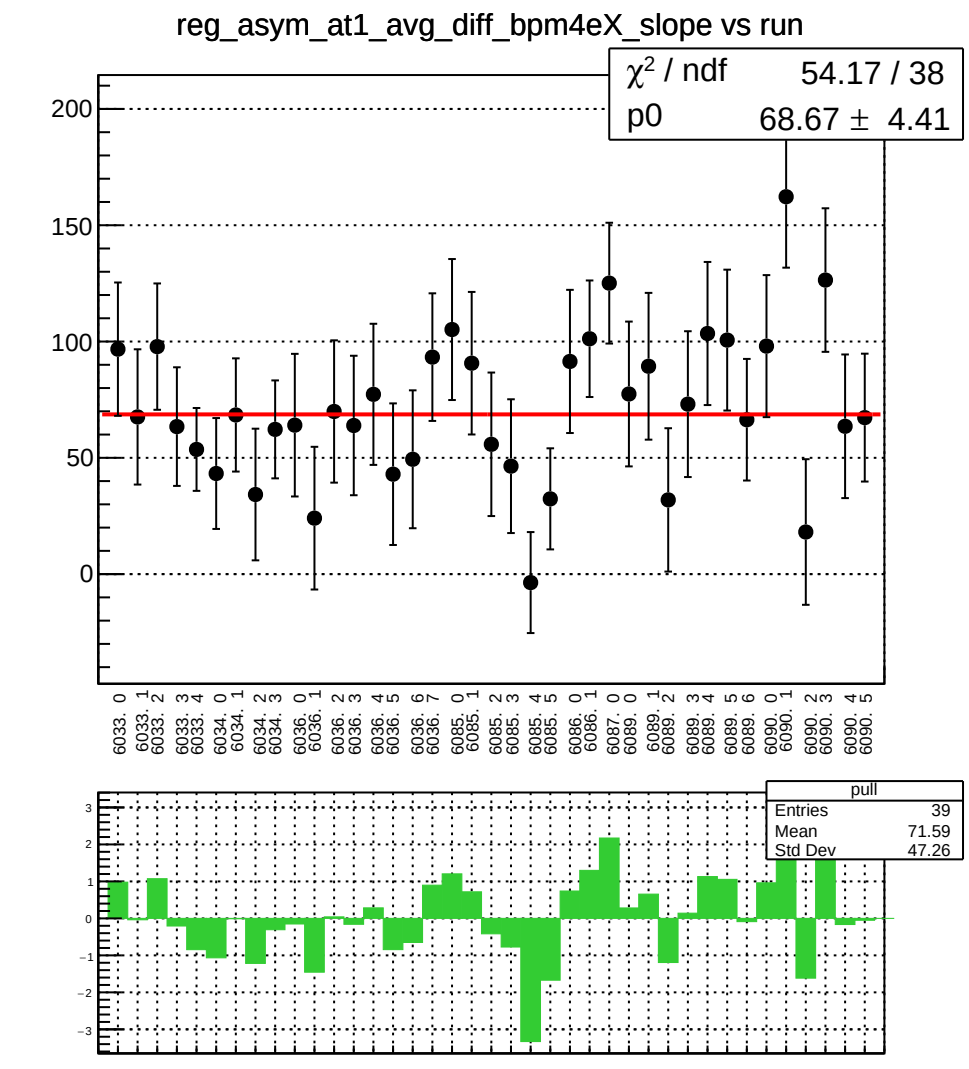

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.34 / 38
p0 −144.3 ± 6.082
pull
Entries 39
Mean −188.5
Std Dev 204.6
pull1D
Entries 39
Mean 0.01281
Std Dev 0.5149

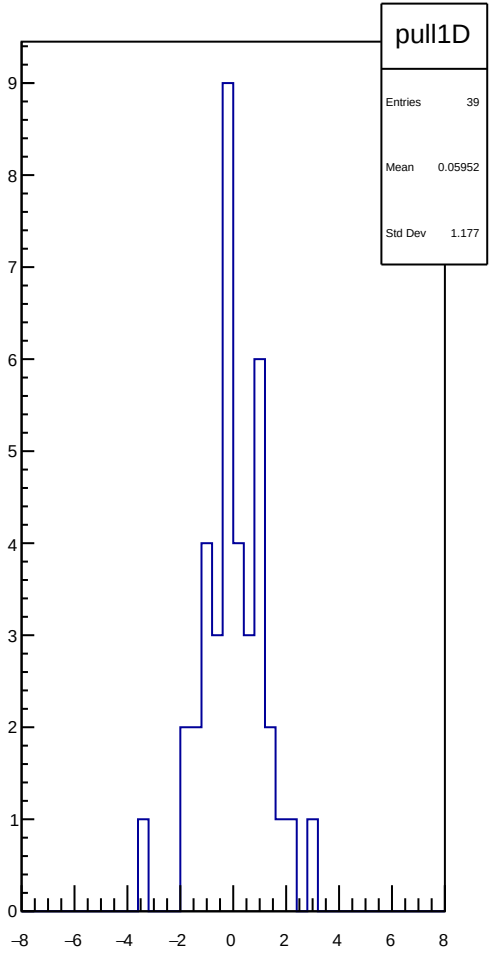

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 14.56 / 38
p0 107.8 ± 0.4684
114
112
110
108
106
104
102
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 46.91
Std Dev 28.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 39
Mean 0.02166
Std Dev 0.6106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

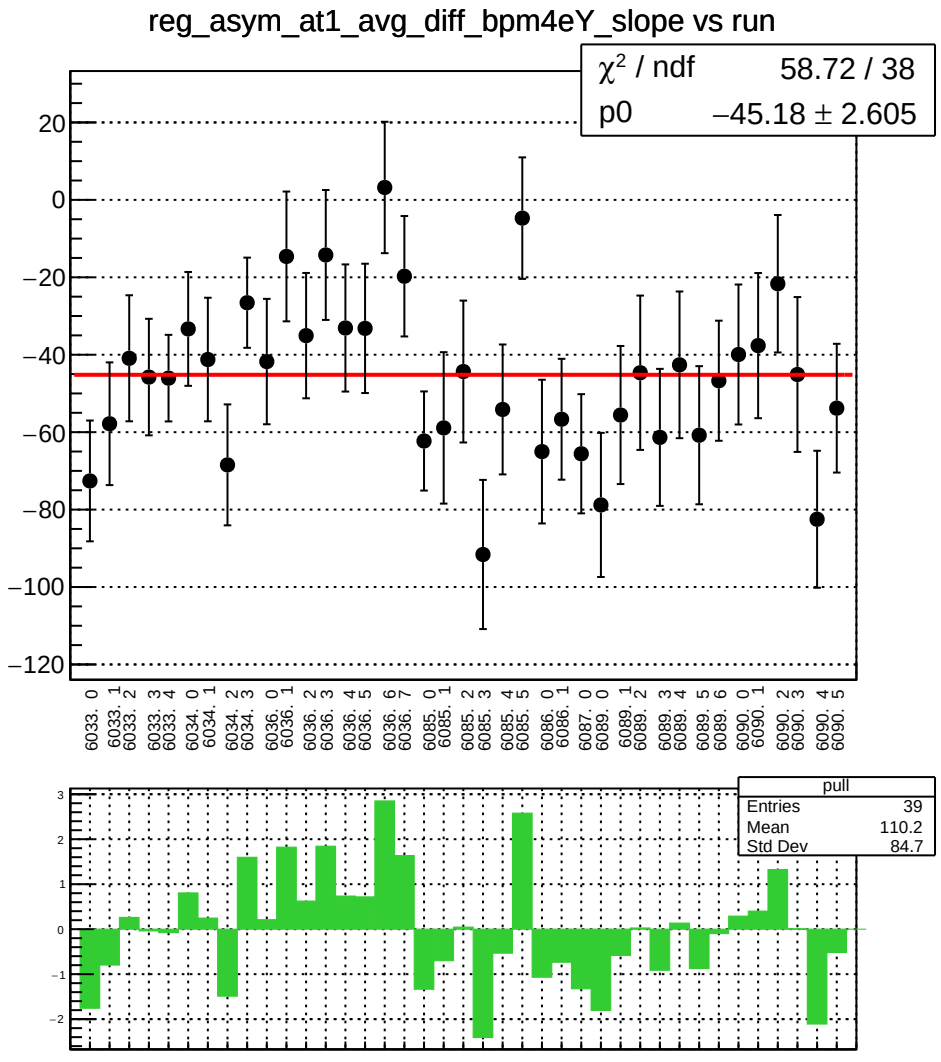

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.94 / 38
p0 −67.31 ± 3.949
pull
Entries 39
Mean 60.11
Std Dev 31.44

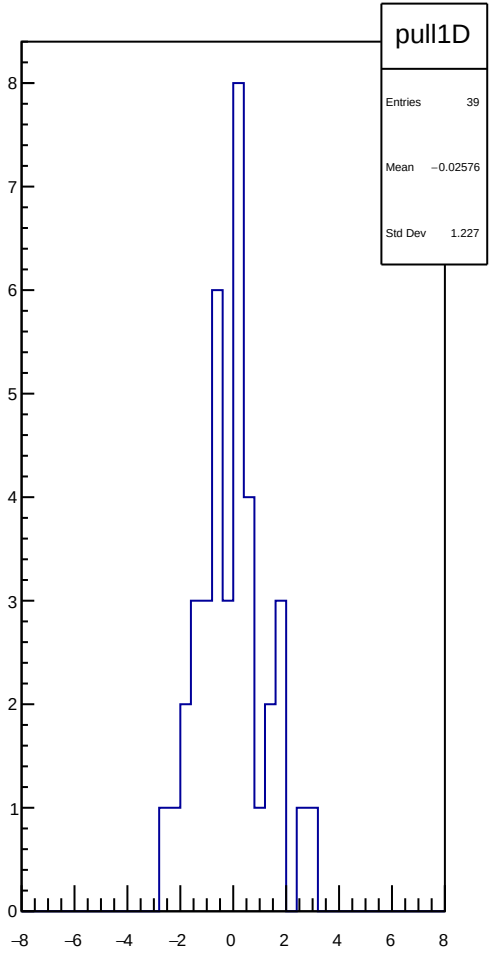

pull1D
Entries 39
Mean −0.0432
Std Dev 1.119

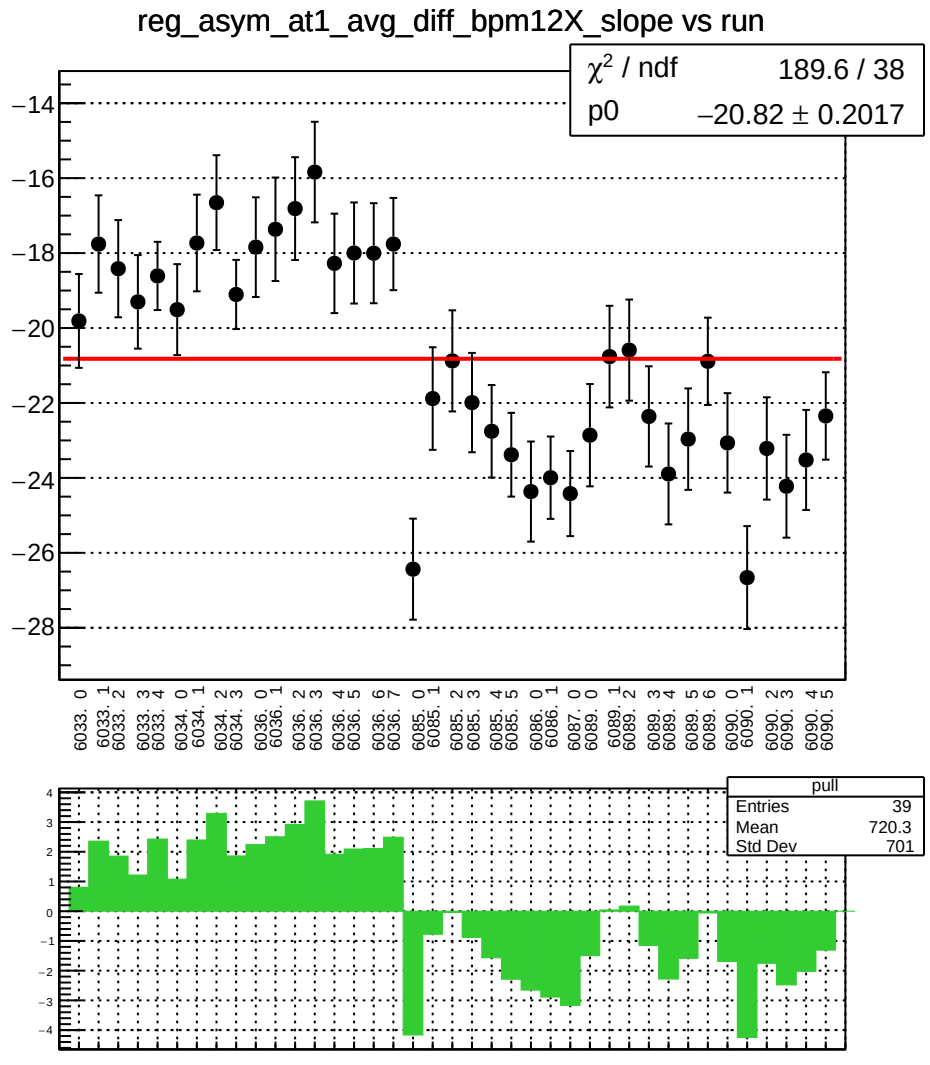

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.28 / 38
p0 28.09 ± 2.43
100
80
60
40
20
0
−20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 66.88
Std Dev 41.18
2
1
0
−1
−2
pull1D
Entries 39
Mean 0.03441
Std Dev 1.101
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

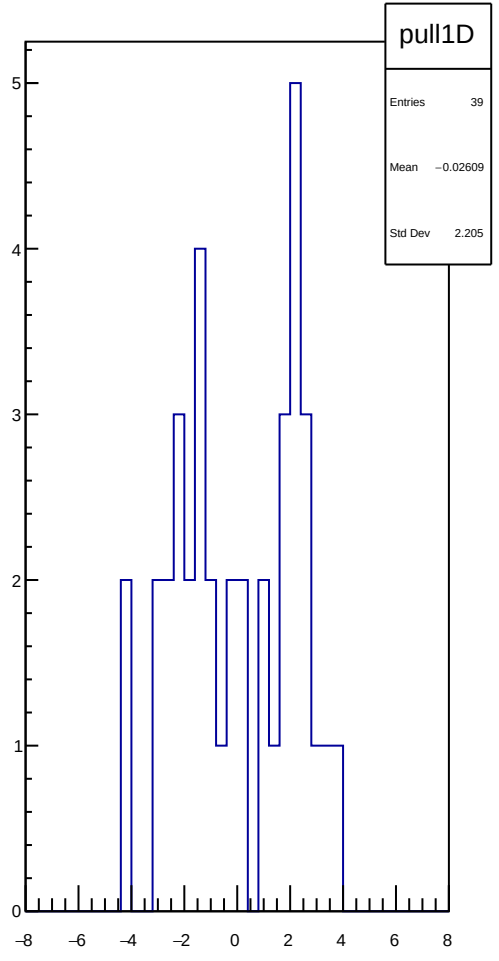

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.17 / 38
p0 68.67 ± 4.41
200
150
100
50
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 71.59
Std Dev 47.26
3
2
1
0
−1
−2
−3

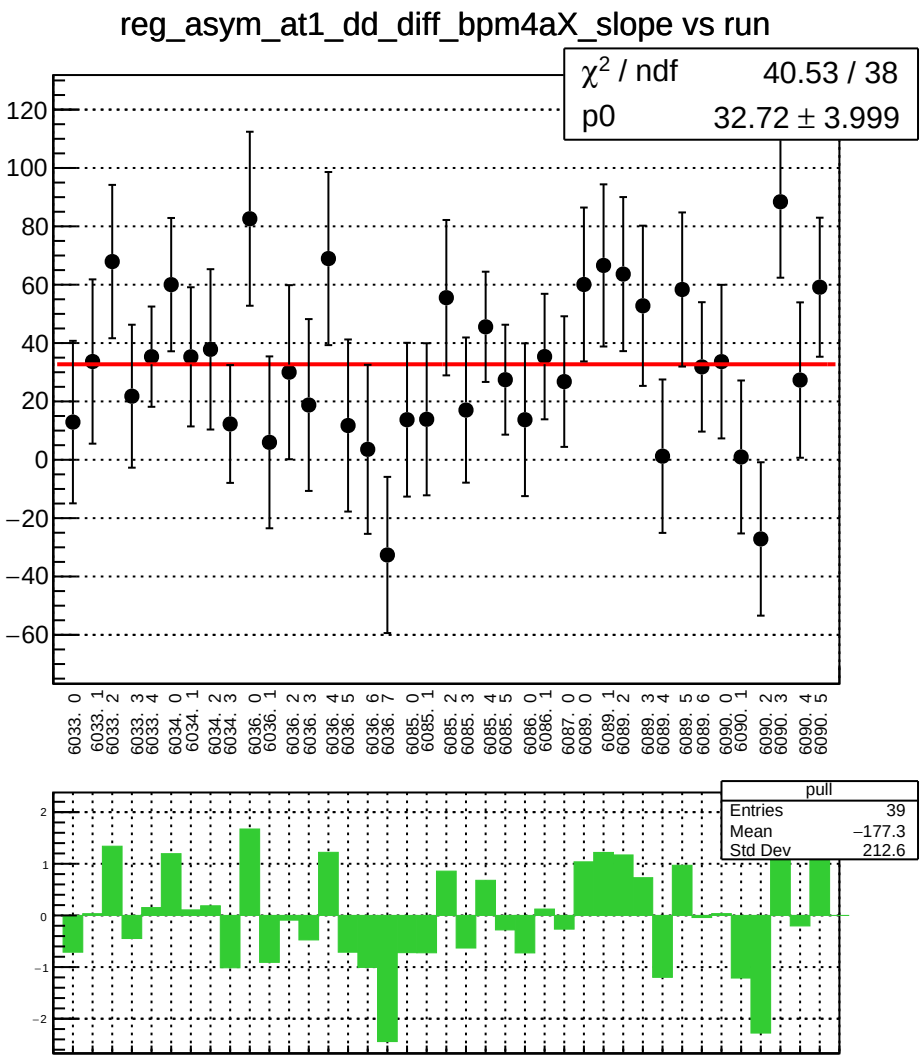

pull1D
Entries 39
Mean 0.05952
Std Dev 1.177
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

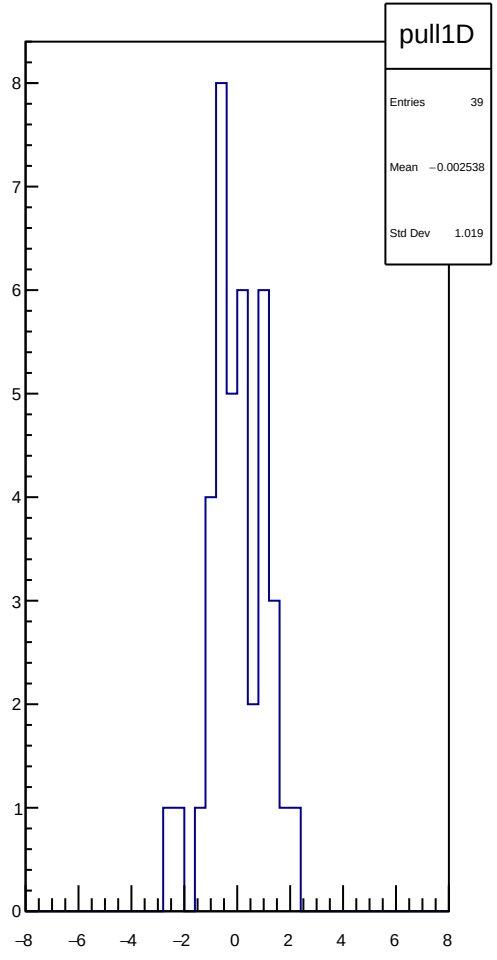

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.72 / 38
p0 −45.18 ± 2.605
20
0
−20
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 110.2
Std Dev 84.7
3
2
1
0
−1
−2

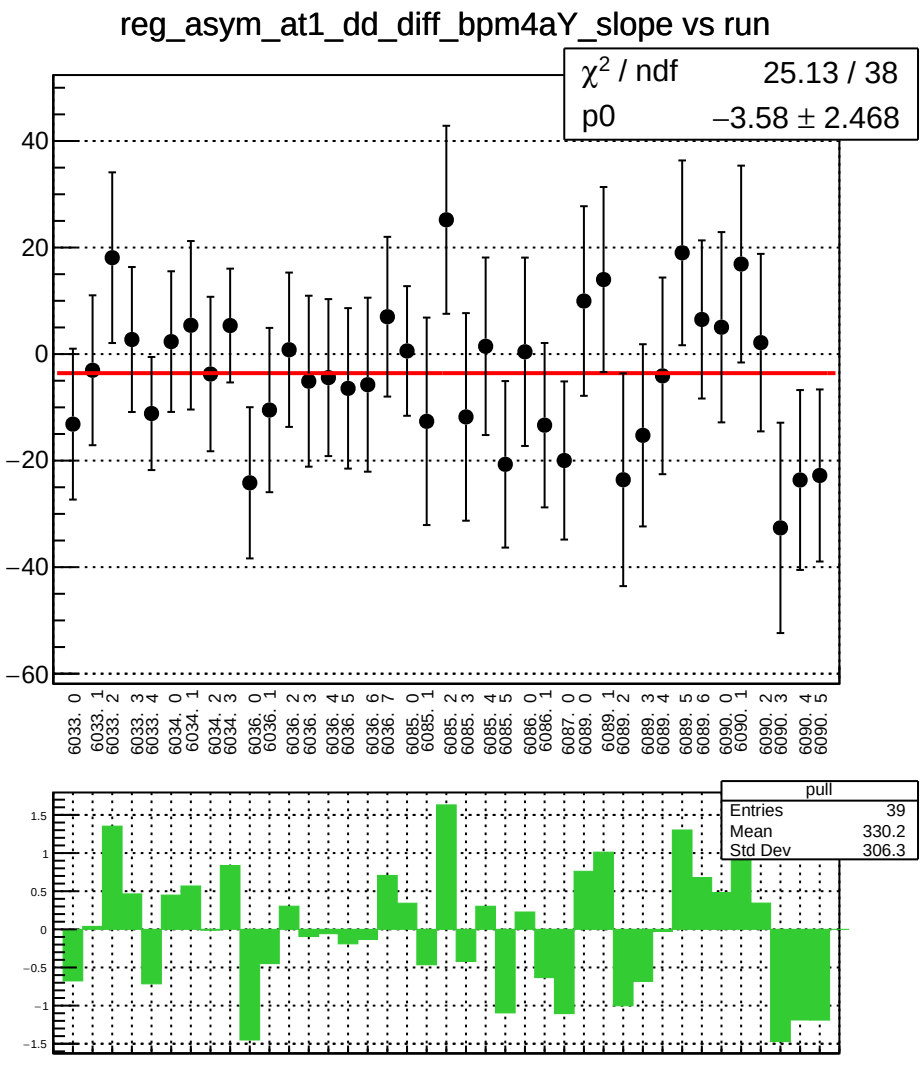

pull1D
Entries 39
Mean −0.02576
Std Dev 1.227
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

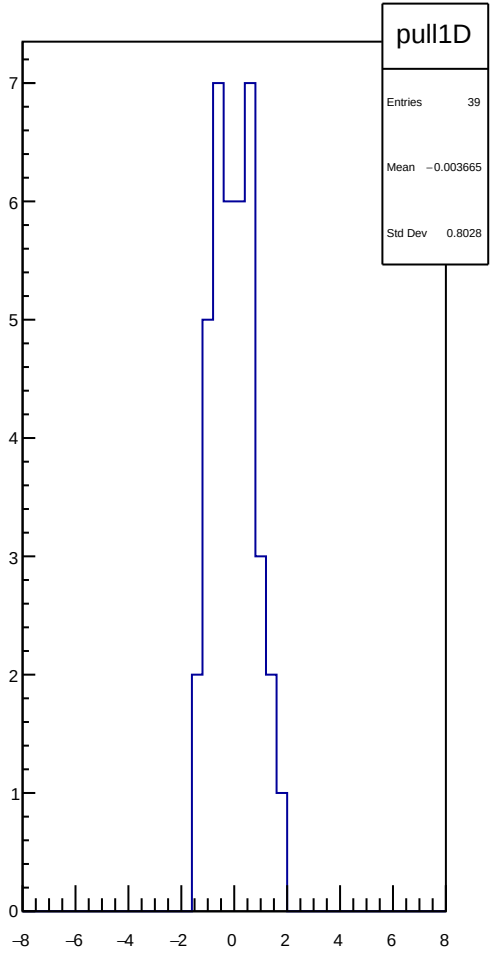

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 189.6 / 38
p0 −20.82 ± 0.2017
pull
Entries 39
Mean 720.3
Std Dev 701

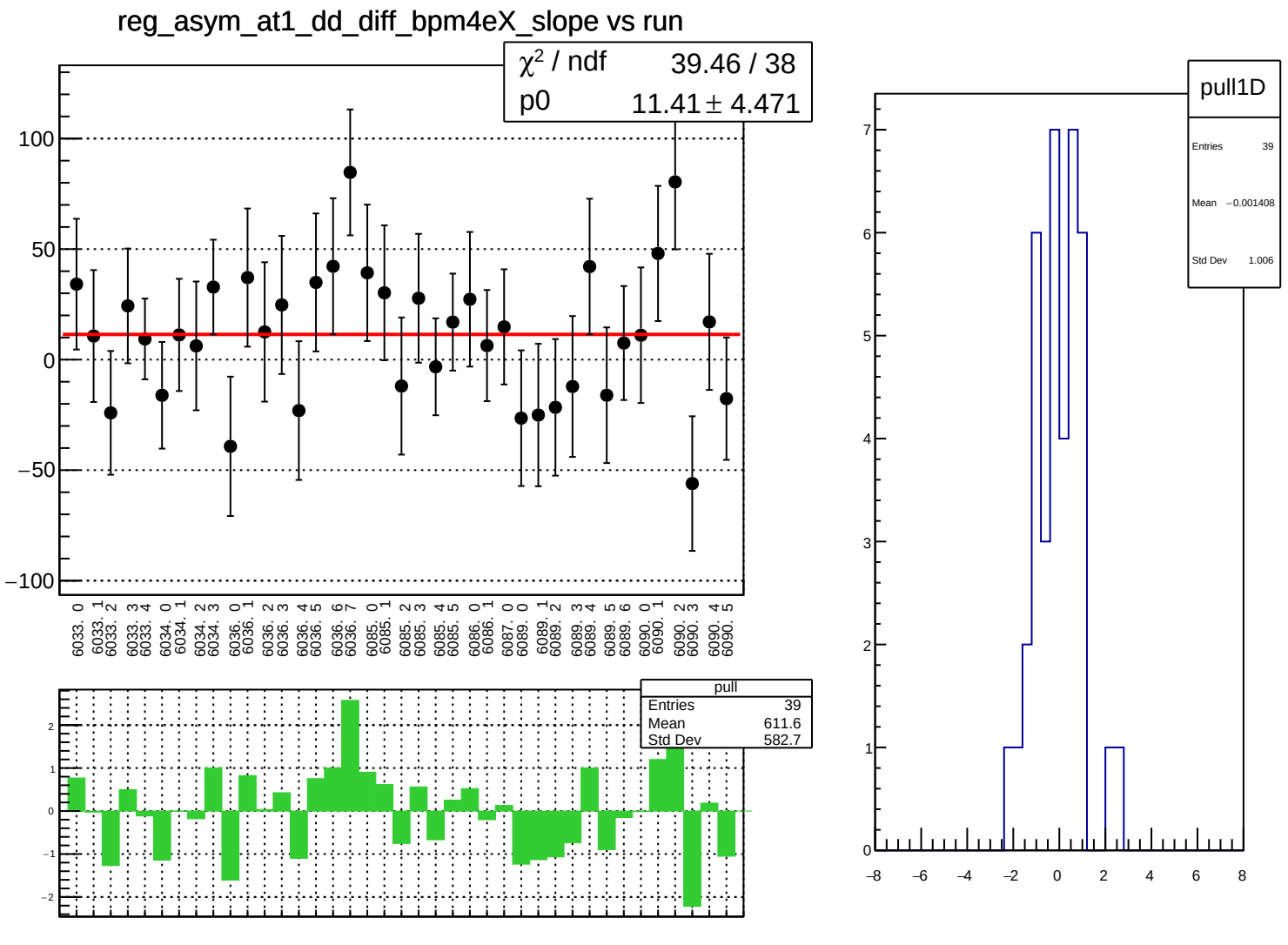

pull1D
Entries 39
Mean −0.02609
Std Dev 2.205

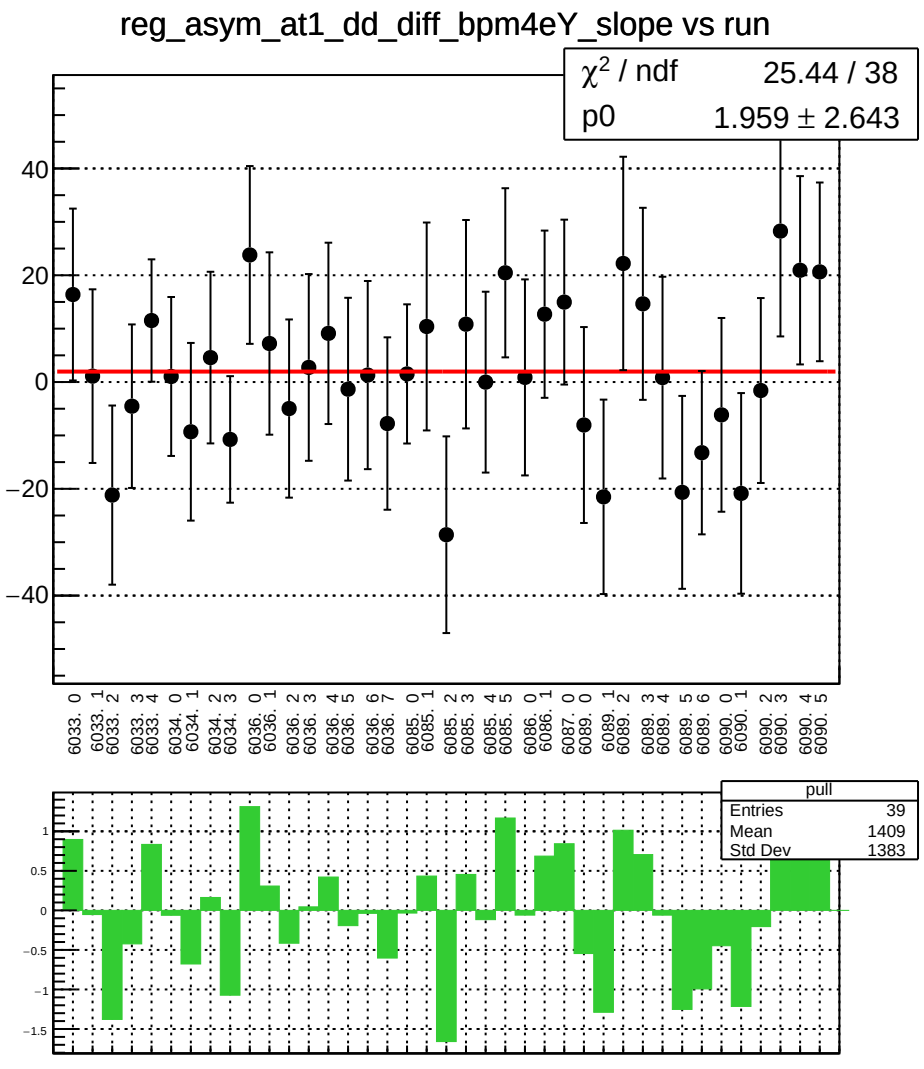

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.53 / 38
p0 32.72 ± 3.999
120
100
80
60
40
20
0
−20
−40
−60
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −177.3
Std Dev 212.6
2
1
0
−1
−2

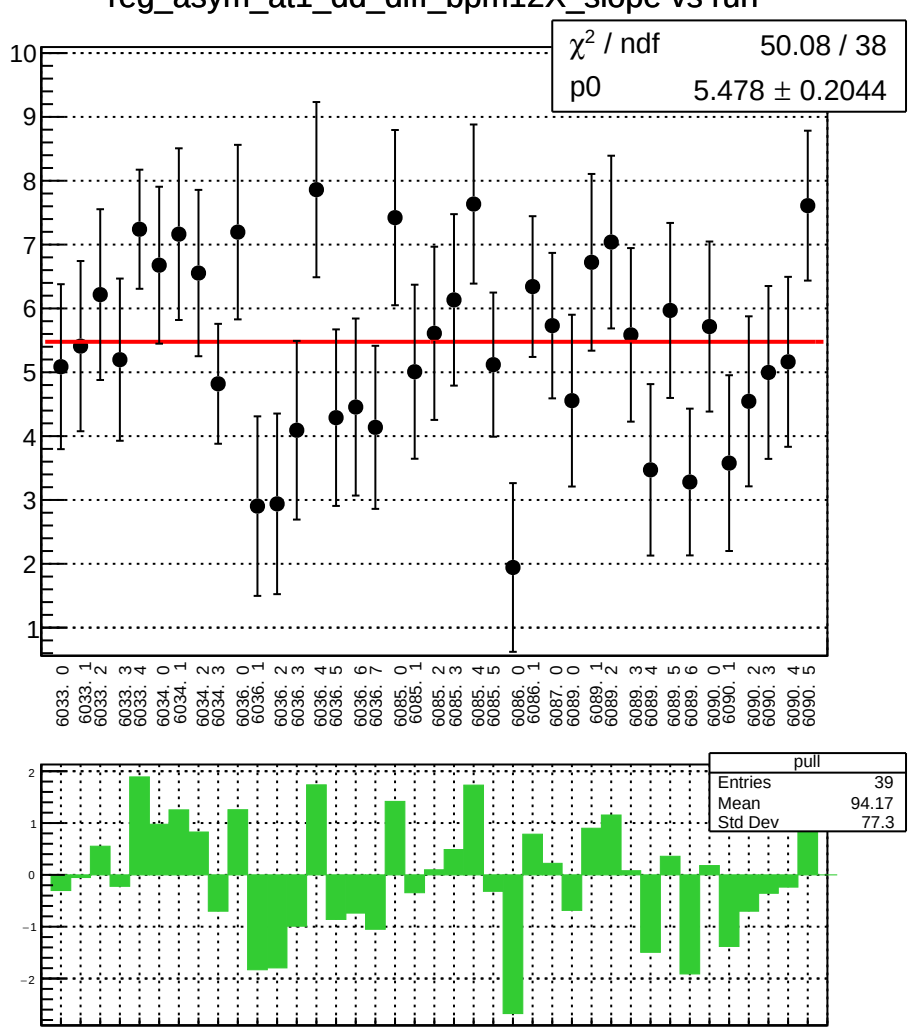

pull1D
Entries 39
Mean −0.002538
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

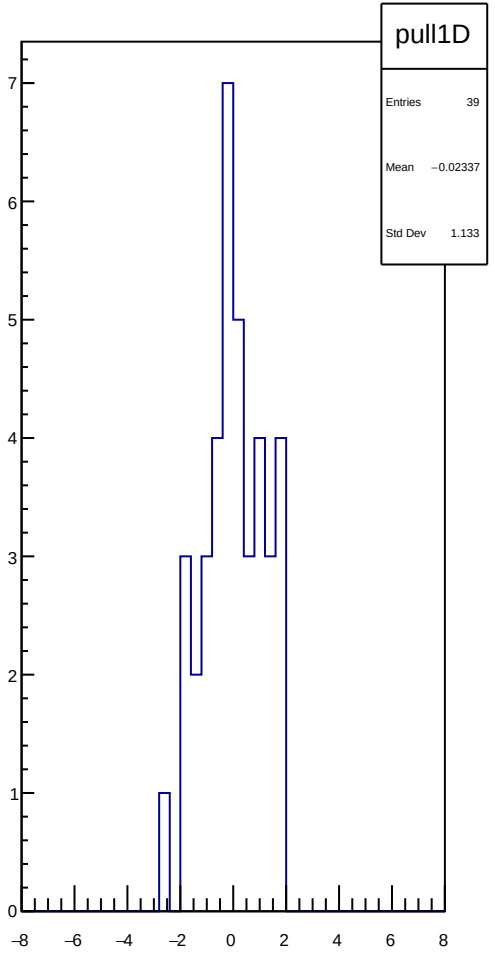

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.13 / 38
p0 −3.58 ± 2.468
pull
Entries 39
Mean 330.2
Std Dev 306.3

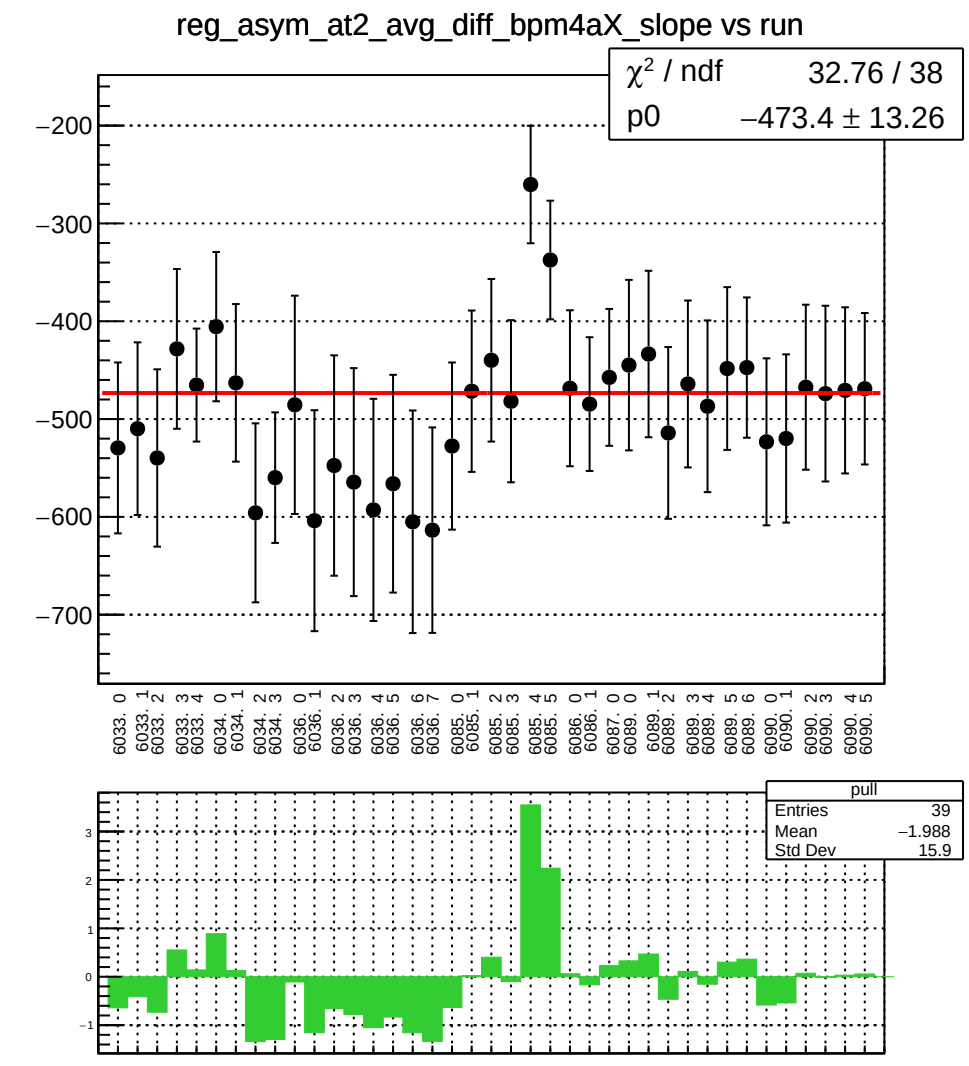

pull1D
Entries 39
Mean −0.003665
Std Dev 0.8028

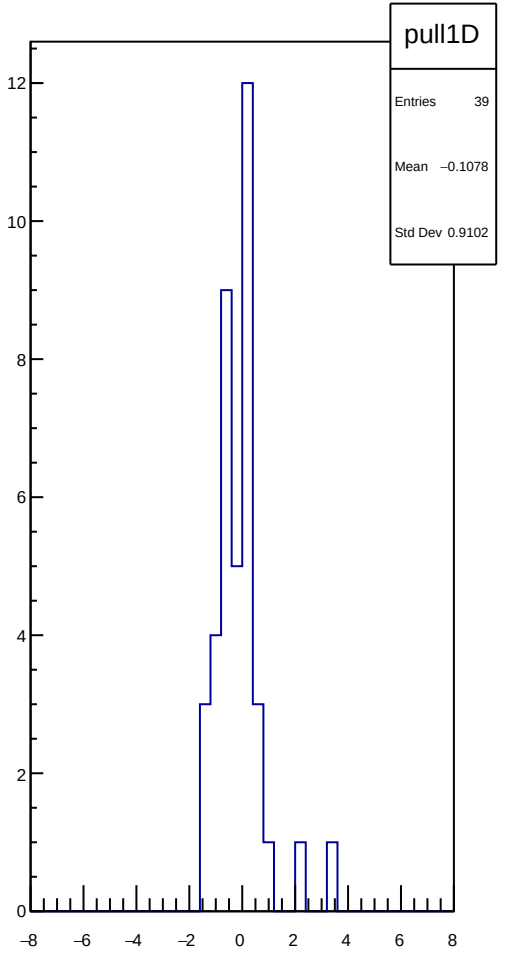

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.46 / 38
p0 11.41 ± 4.471
100
50
0
−50
−100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 611.6
Std Dev 582.7
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.001408
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

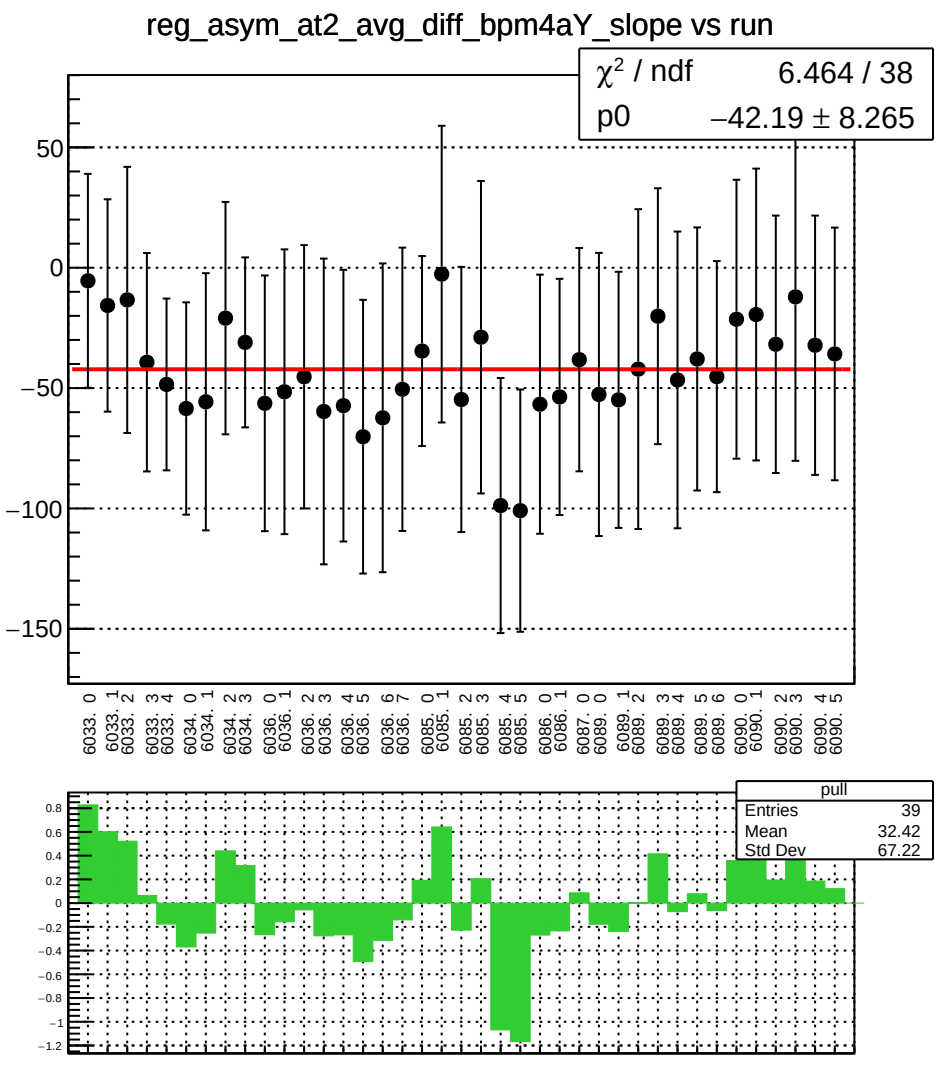

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.44 / 38
p0 1.959 ± 2.643
40
20
0
−20
−40
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 1409
Std Dev 1383
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean 0.0005387
Std Dev 0.8077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

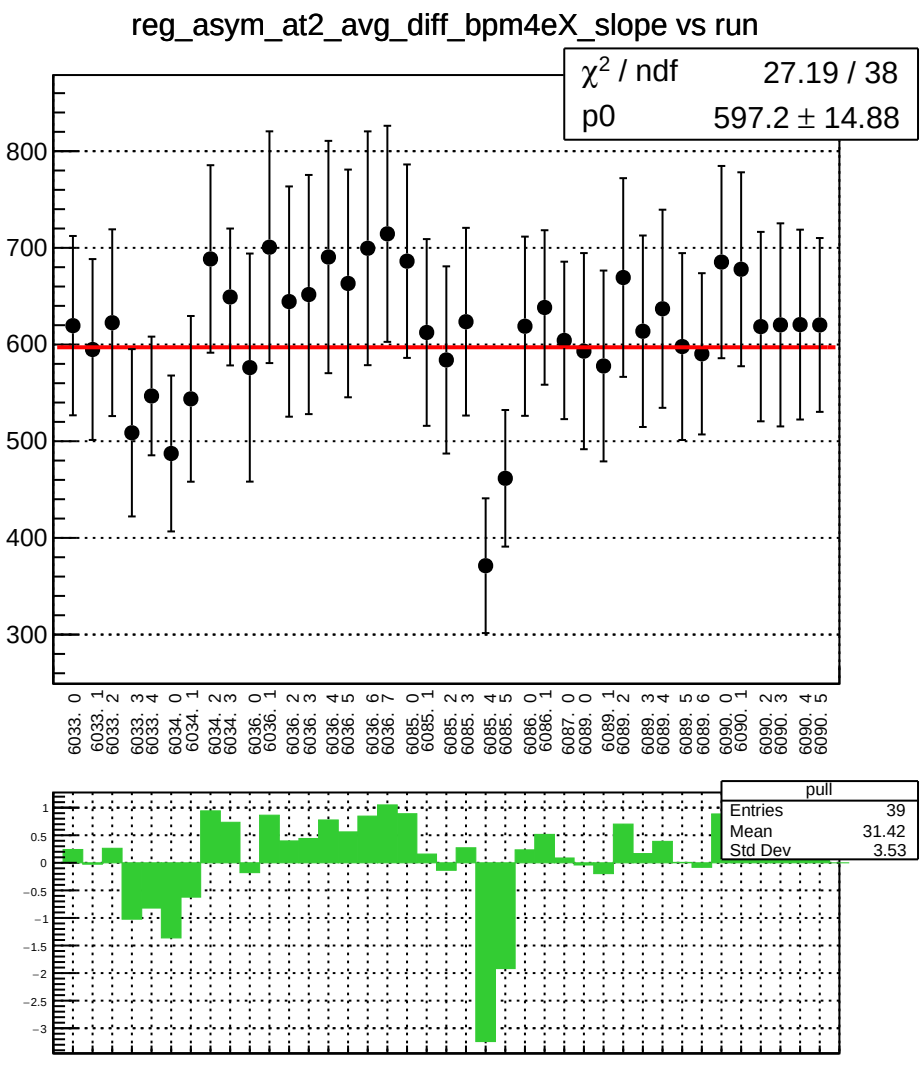

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 50.08 / 38
p0 5.478 ± 0.2044
pull
Entries 39
Mean 94.17
Std Dev 77.3

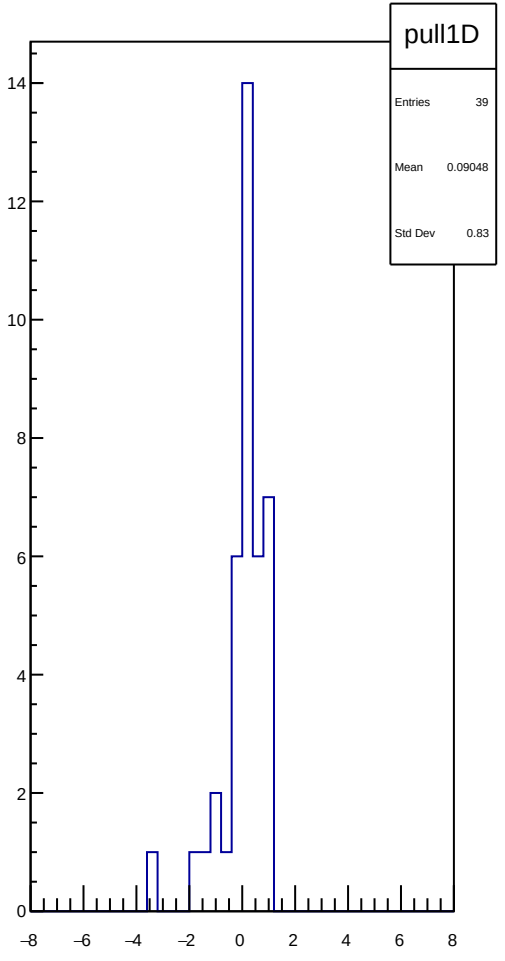

pull1D
Entries 39
Mean −0.02337
Std Dev 1.133

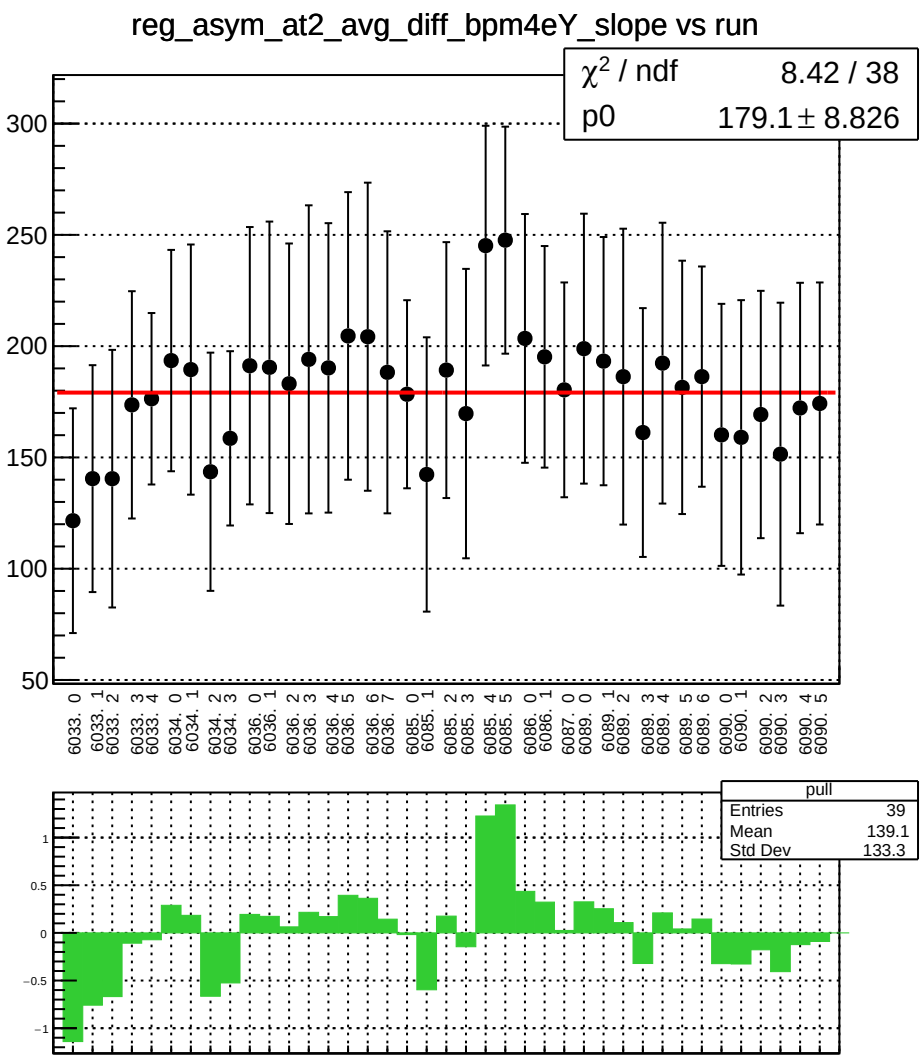

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 32.76 / 38
p0 −473.4 ± 13.26
−200
−300
−400
−500
−600
−700
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −1.988
Std Dev 15.9
3
2
1
0
−1

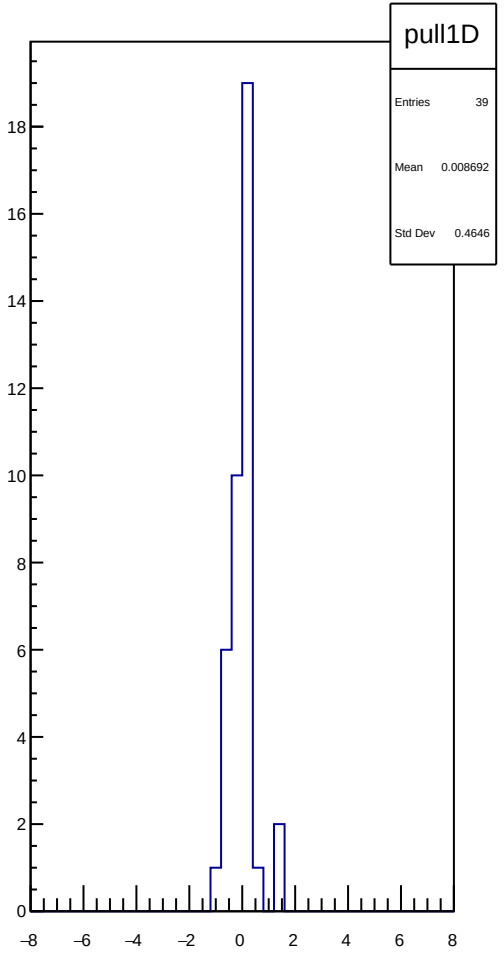

pull1D
Entries 39
Mean −0.1078
Std Dev 0.9102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

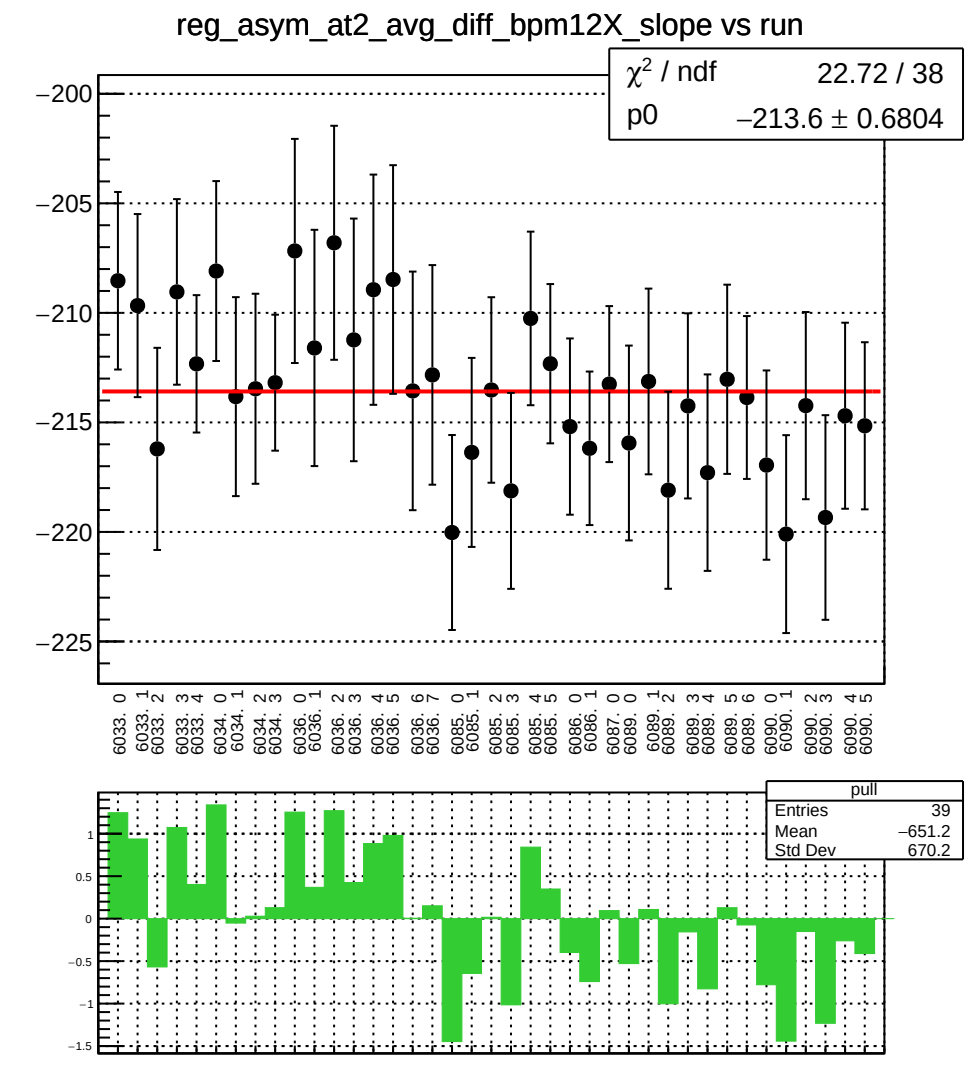

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.464 / 38
p0 −42.19 ± 8.265
50
0
−50
−100
−150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 32.42
Std Dev 67.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 39
Mean −0.005589
Std Dev 0.4071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

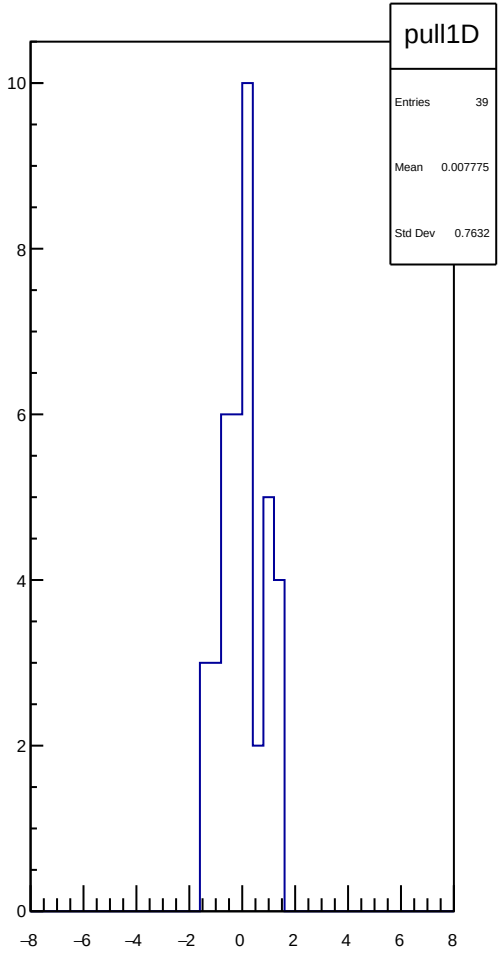

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.19 / 38
p0 597.2 ± 14.88
800
700
600
500
400
300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 31.42
Std Dev 3.53
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

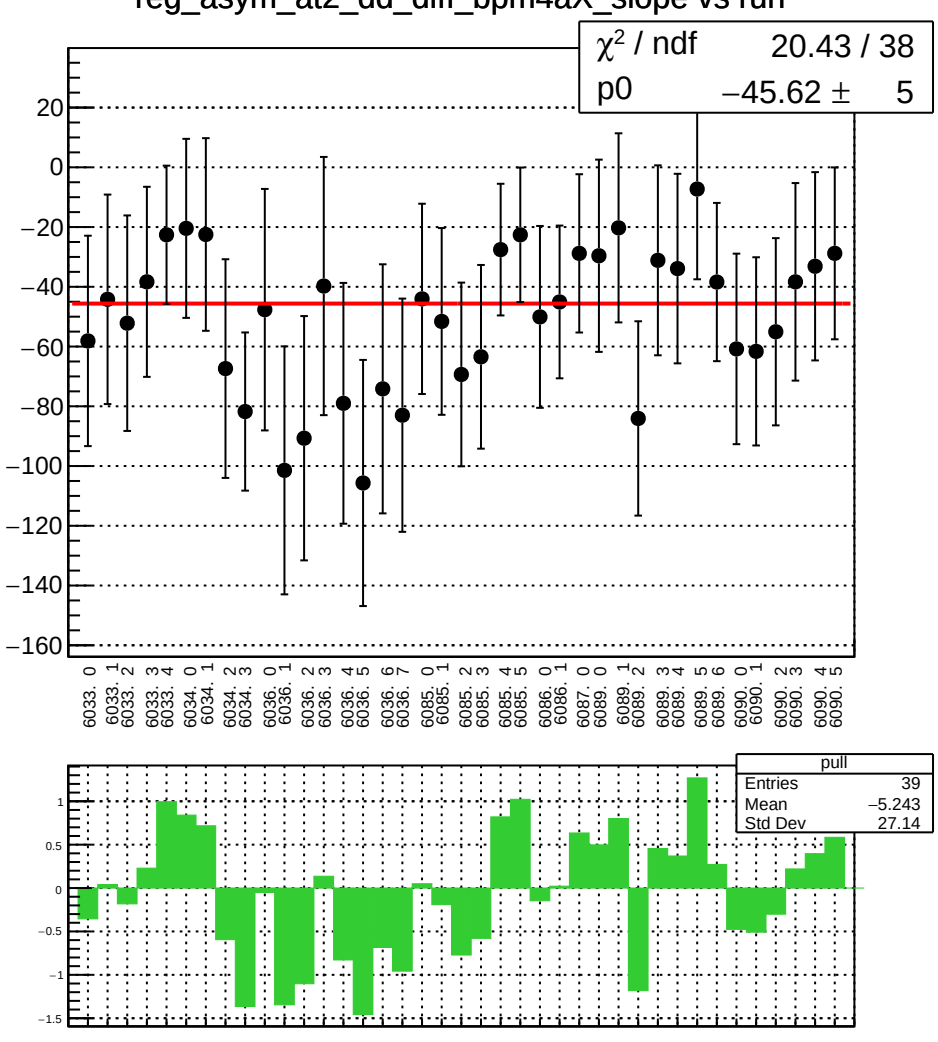

pull1D
Entries 39
Mean 0.09048
Std Dev 0.83
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

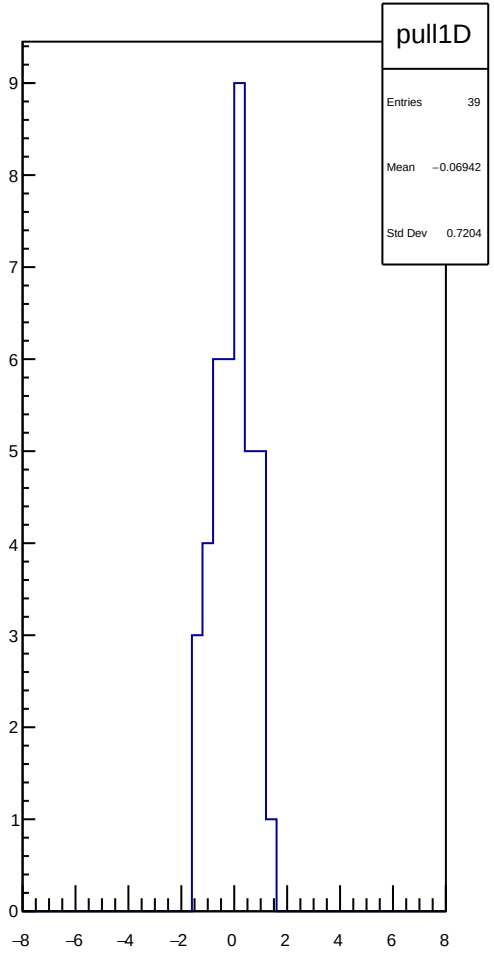

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.42 / 38
p0 179.1 ± 8.826
300
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 139.1
Std Dev 133.3
1
0.5
0
−0.5
−1

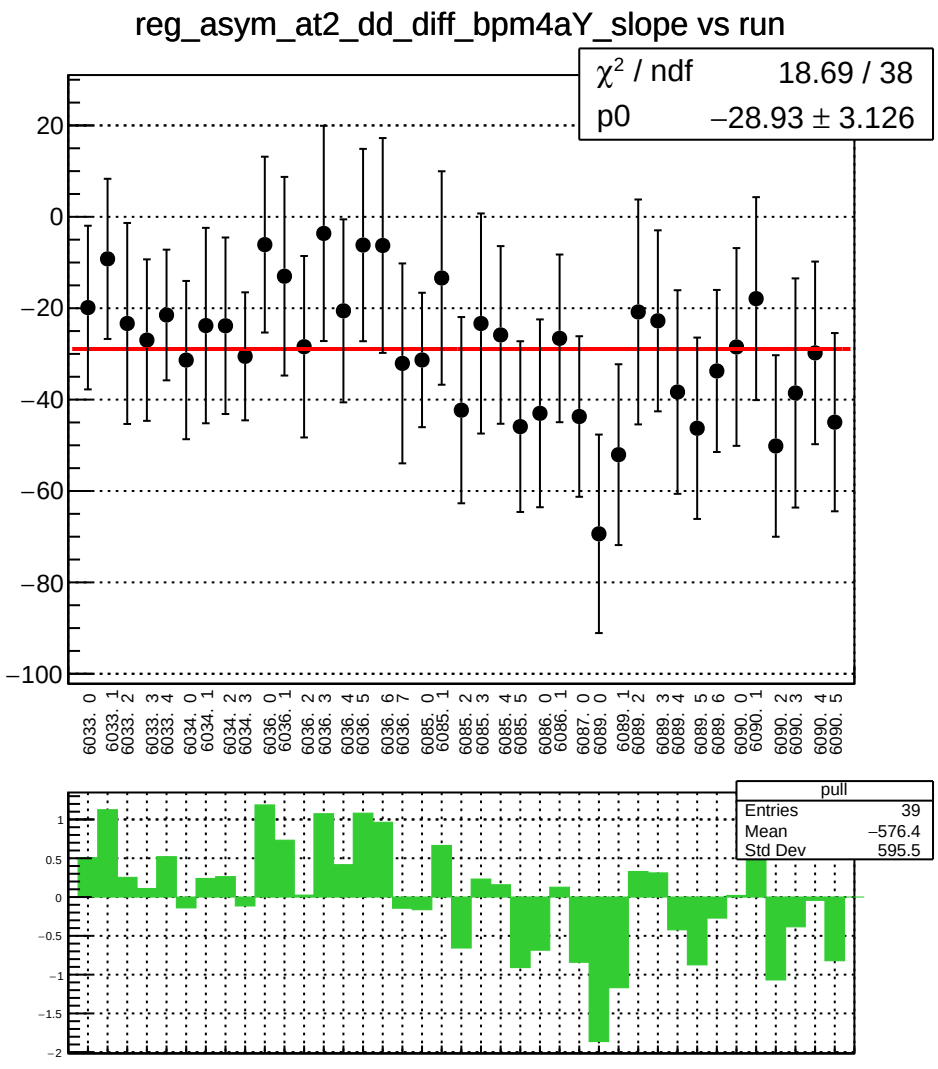

pull1D
Entries 39
Mean 0.008692
Std Dev 0.4646
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

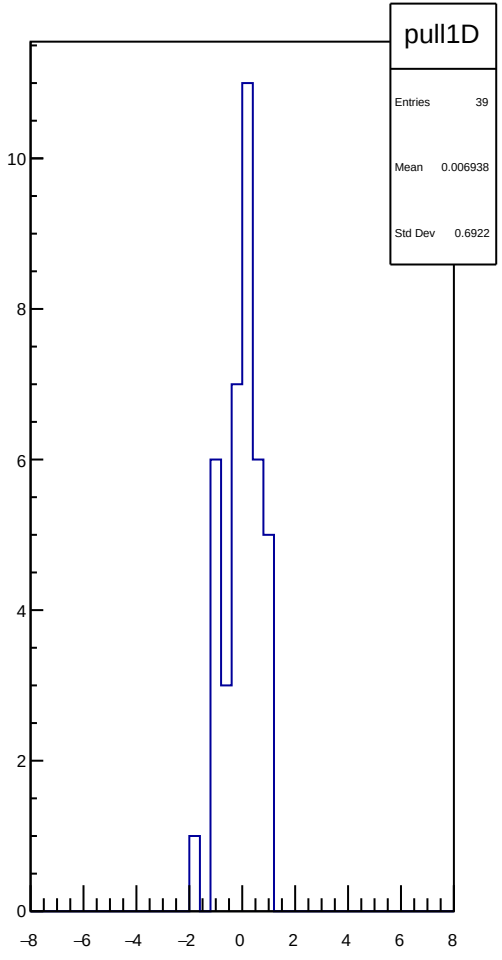

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 22.72 / 38
p0 −213.6 ± 0.6804
−200
−205
−210
−215
−220
−225
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −651.2
Std Dev 670.2
1
0.5
0
−0.5
−1
−1.5

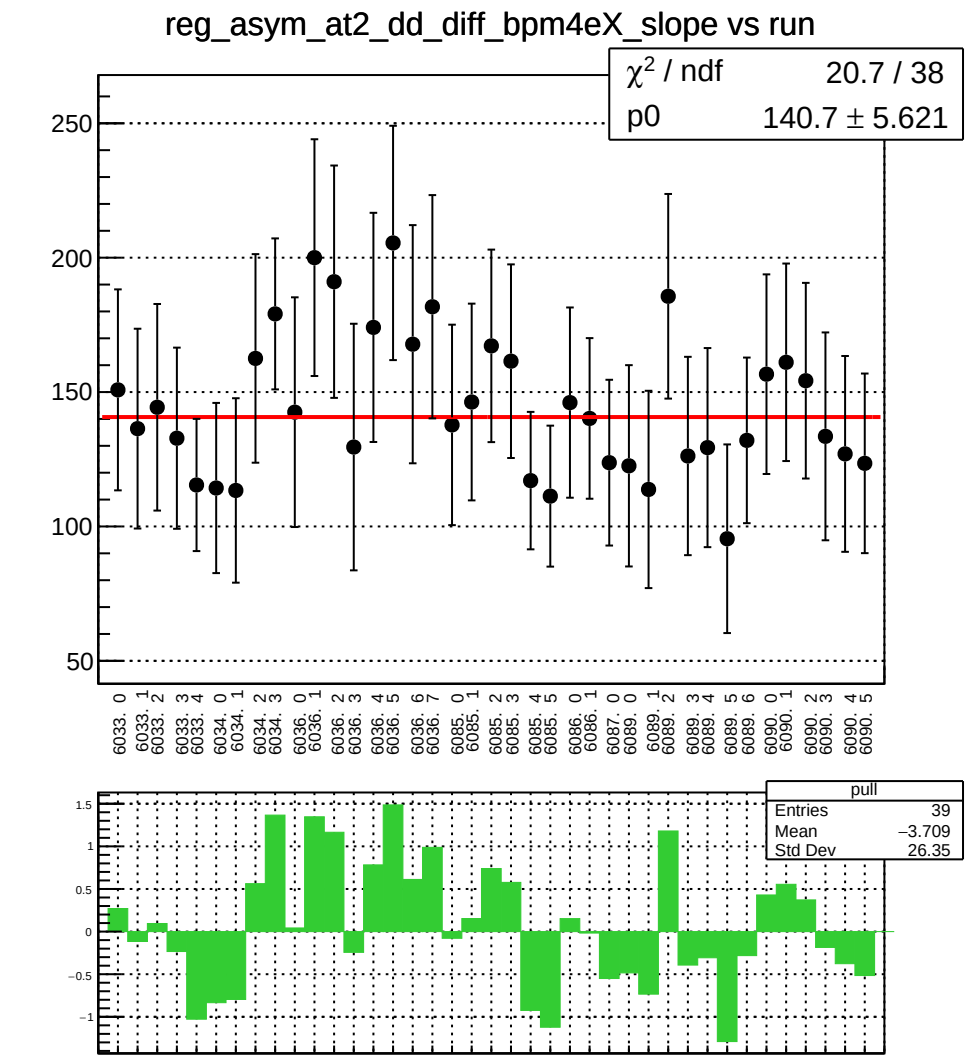

pull1D
Entries 39
Mean 0.007775
Std Dev 0.7632
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

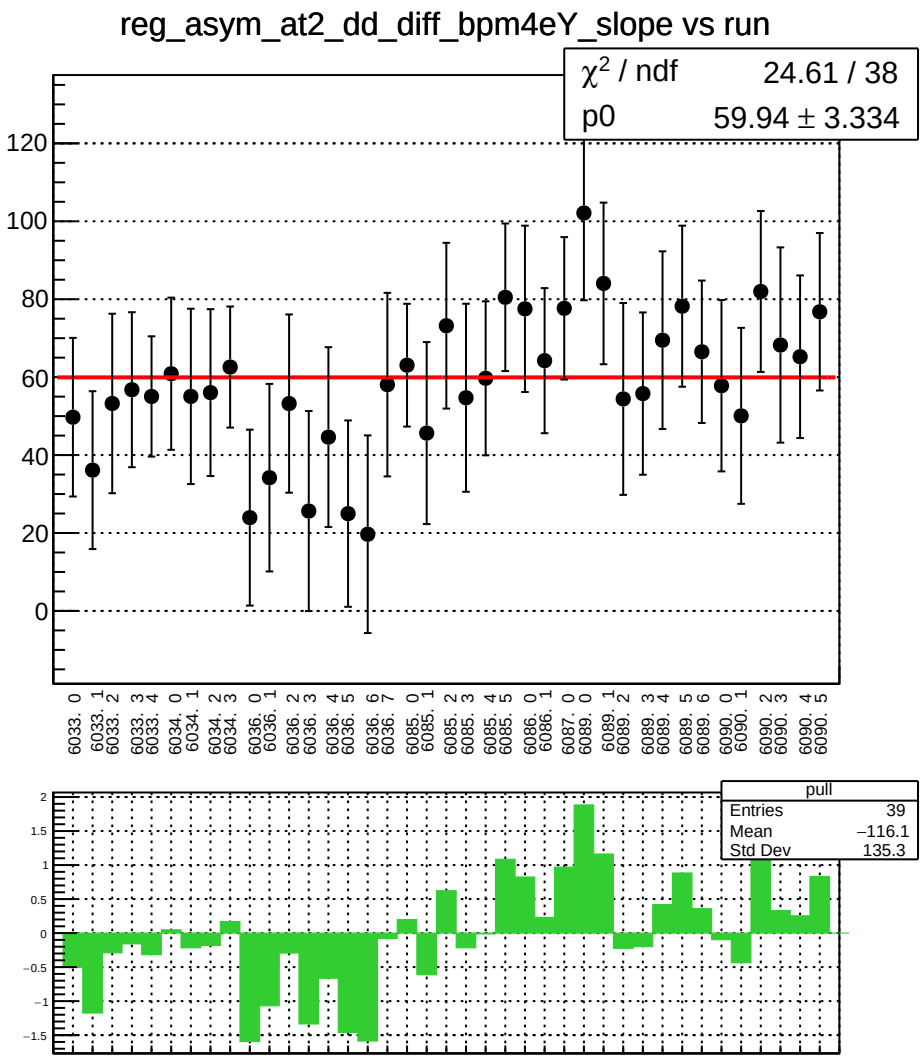

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.43 / 38
p0 −45.62 ± 5
pull
Entries 39
Mean −5.243
Std Dev 27.14

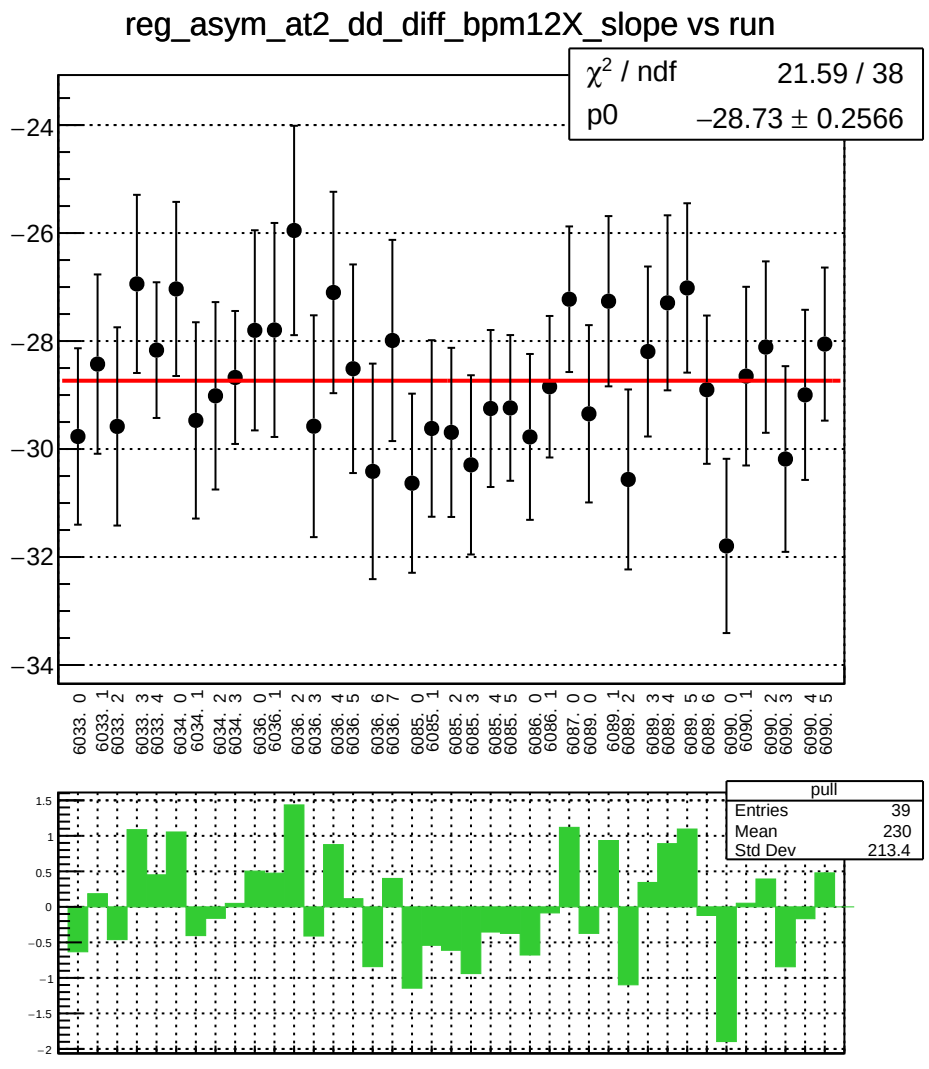

pull1D
Entries 39
Mean −0.06942
Std Dev 0.7204

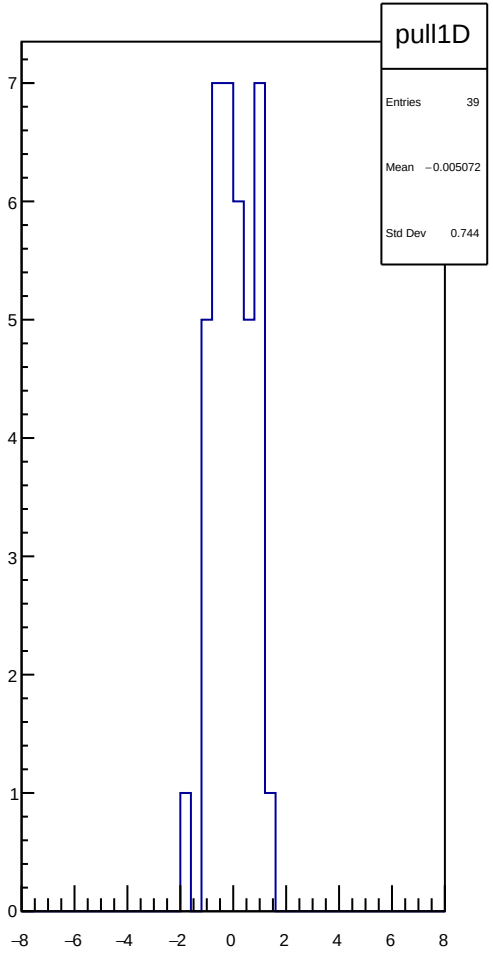

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.69 / 38
p0 −28.93 ± 3.126
pull
Entries 39
Mean −576.4
Std Dev 595.5

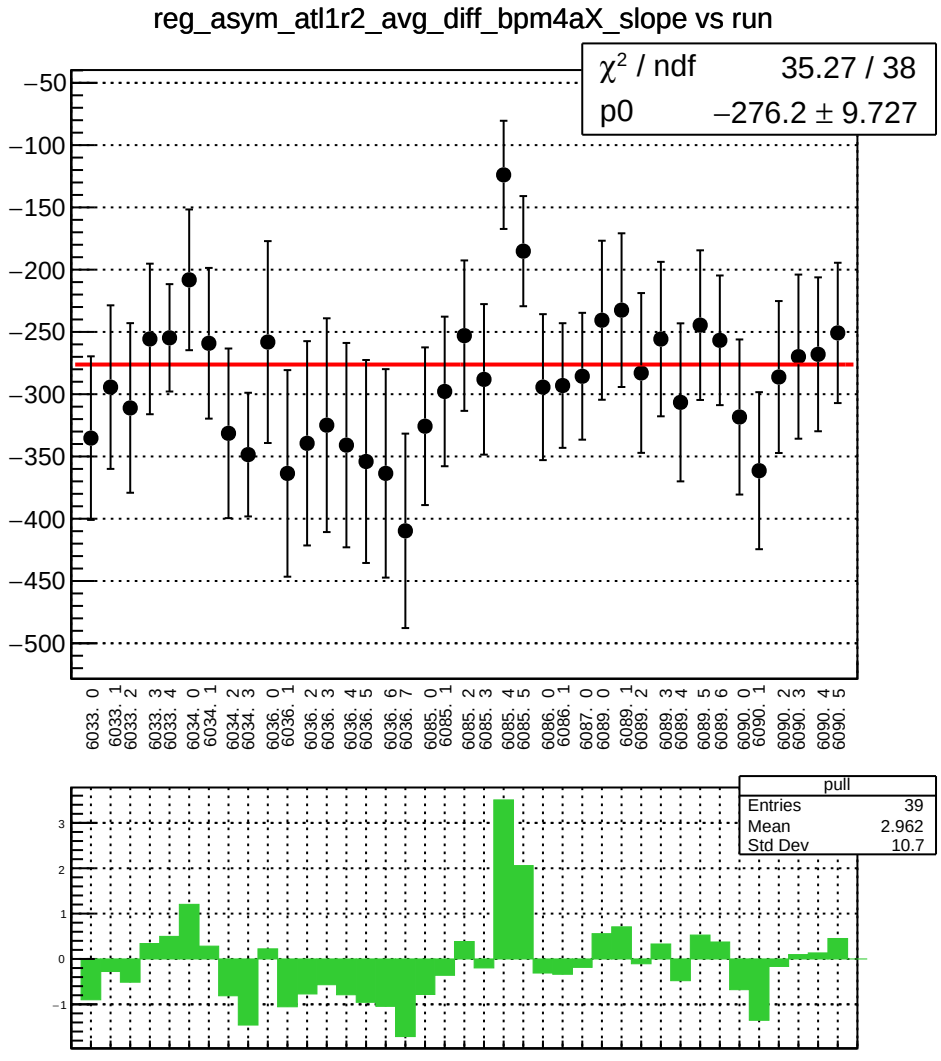

pull1D
Entries 39
Mean 0.006938
Std Dev 0.6922

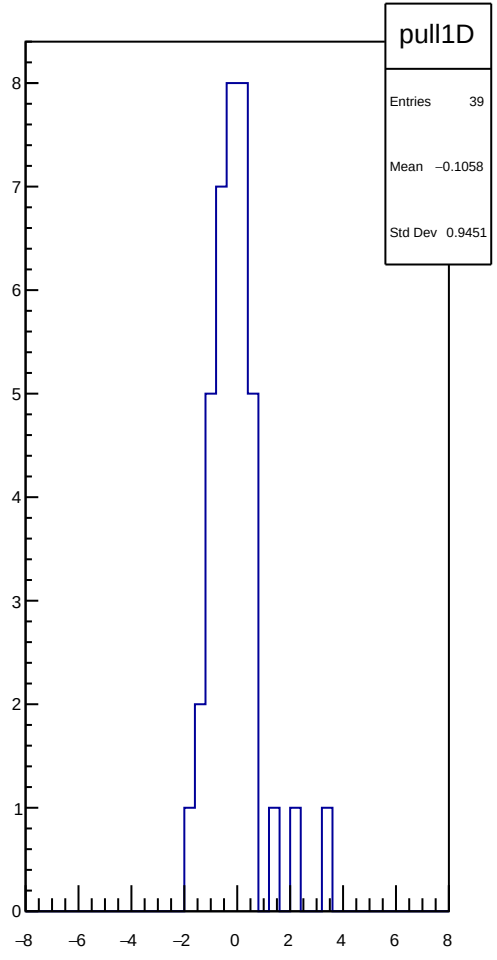

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.7 / 38
p0 140.7 ± 5.621
250
200
150
100
50
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −3.709
Std Dev 26.35
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.06066
Std Dev 0.726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

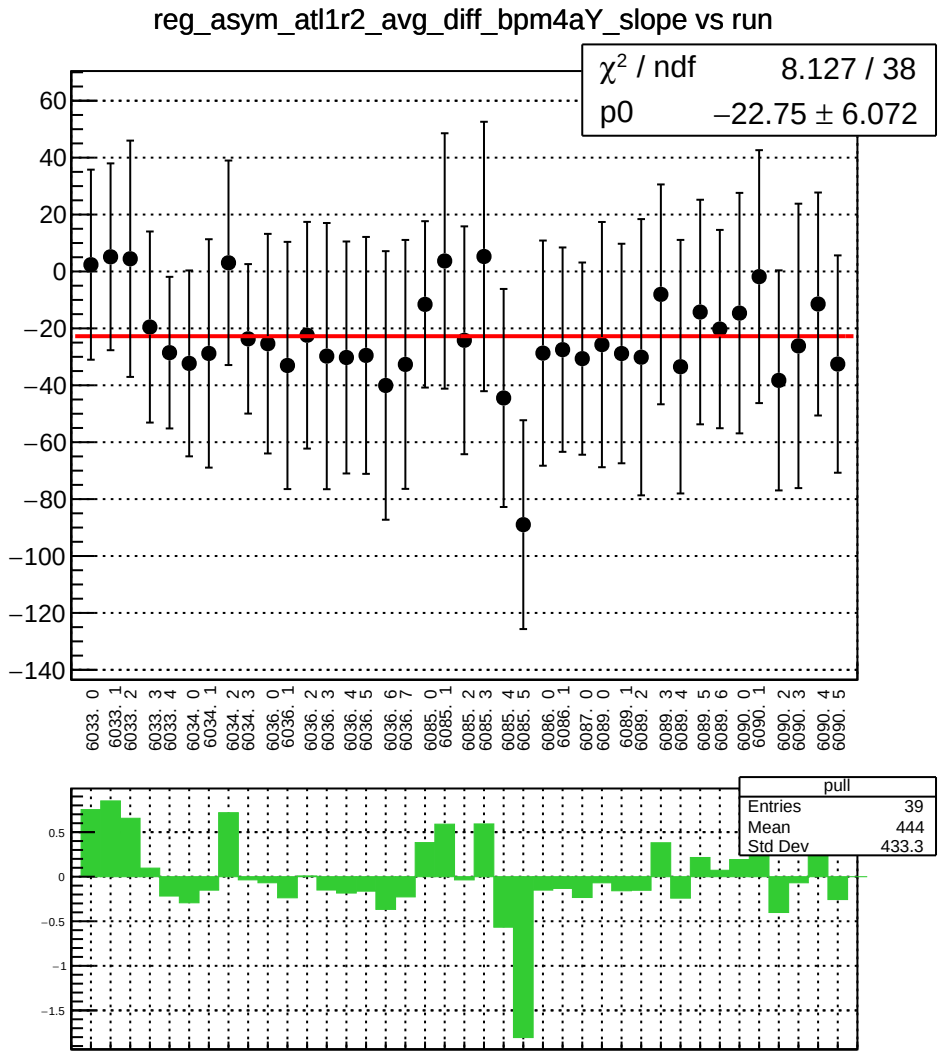

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.61 / 38
p0 59.94 ± 3.334
120
100
80
60
40
20
0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −116.1
Std Dev 135.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.03546
Std Dev 0.7935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

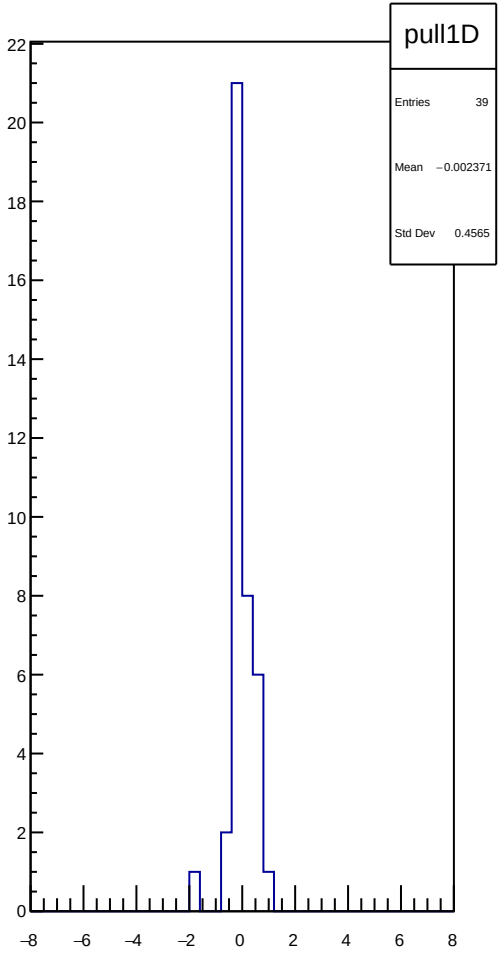

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 21.59 / 38
p0 −28.73 ± 0.2566
pull
Entries 39
Mean 230
Std Dev 213.4

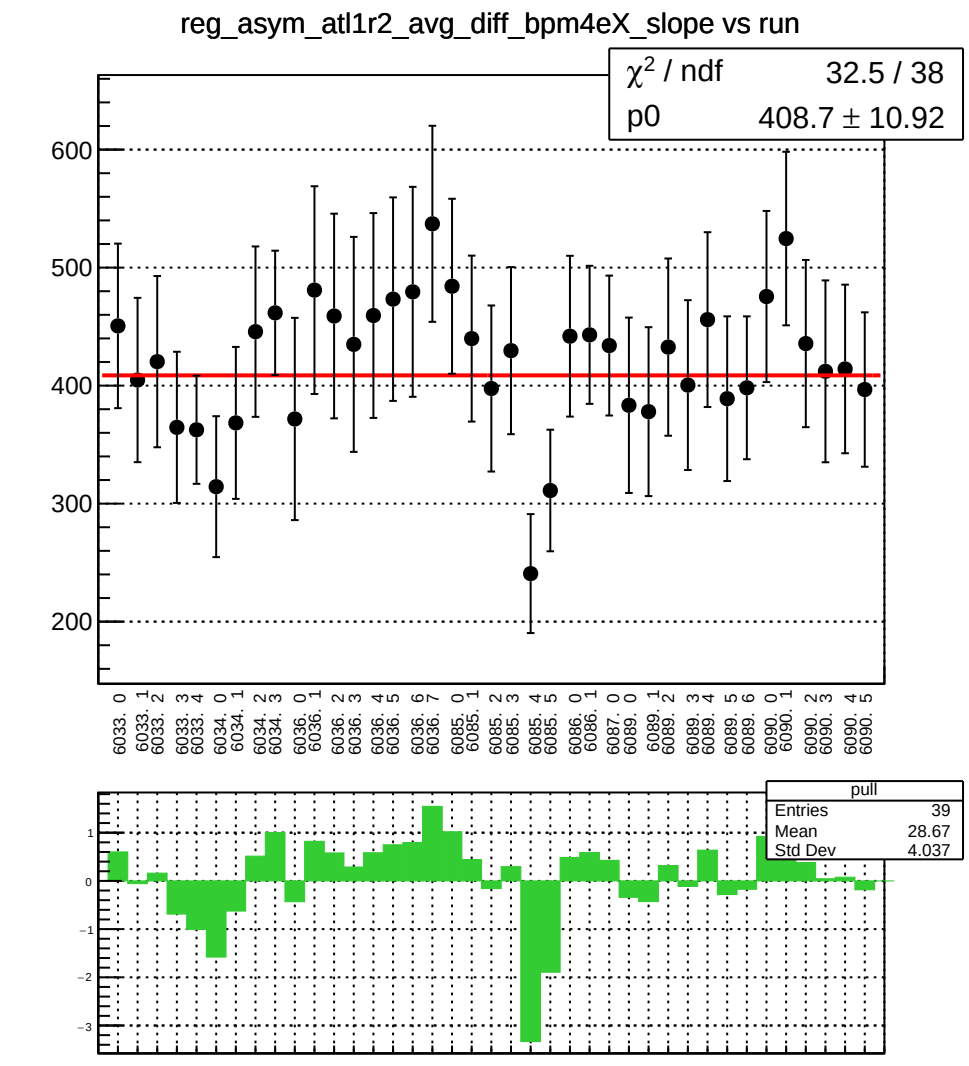

pull1D
Entries 39
Mean −0.005072
Std Dev 0.744

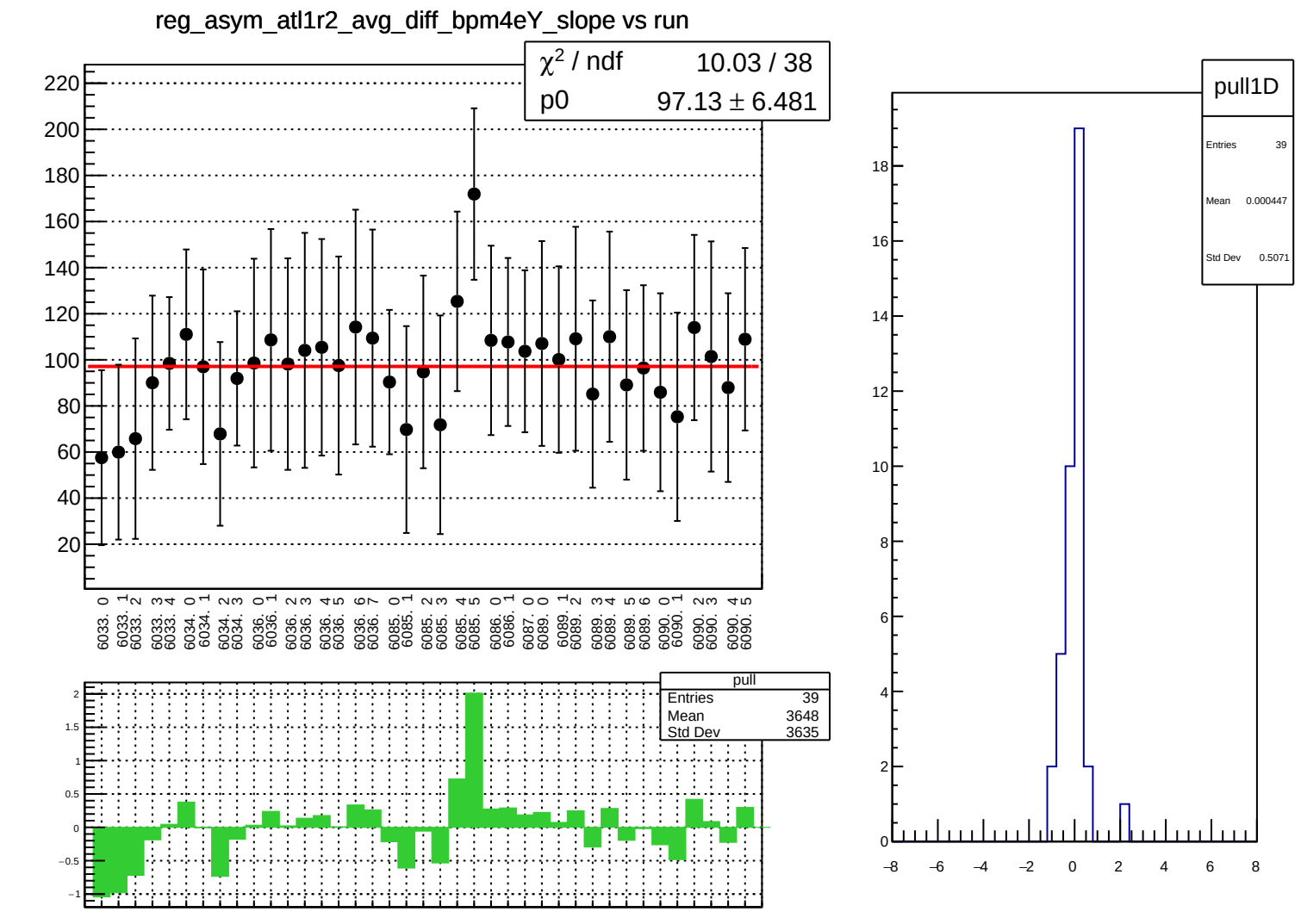

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.27 / 38
p0 −276.2 ± 9.727
pull
Entries 39
Mean 2.962
Std Dev 10.7

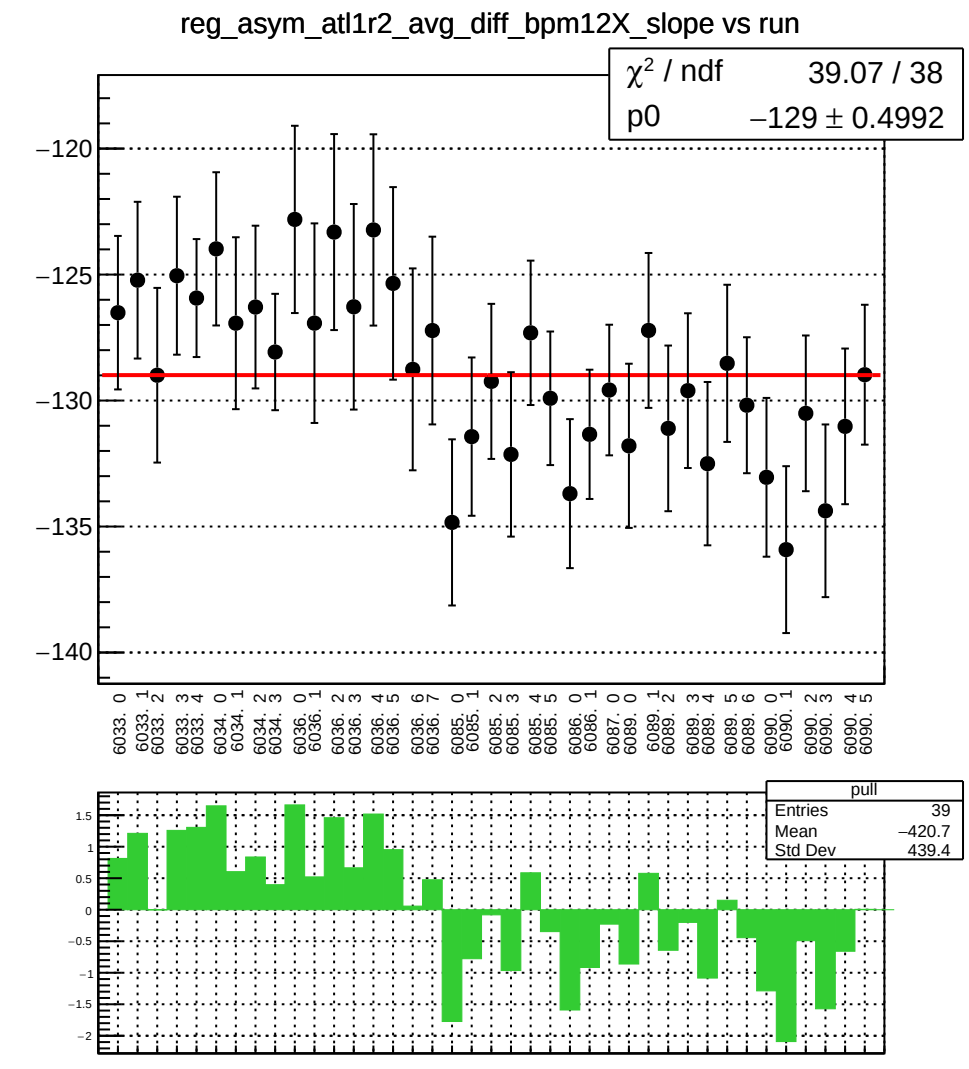

pull1D
Entries 39
Mean −0.1058
Std Dev 0.9451

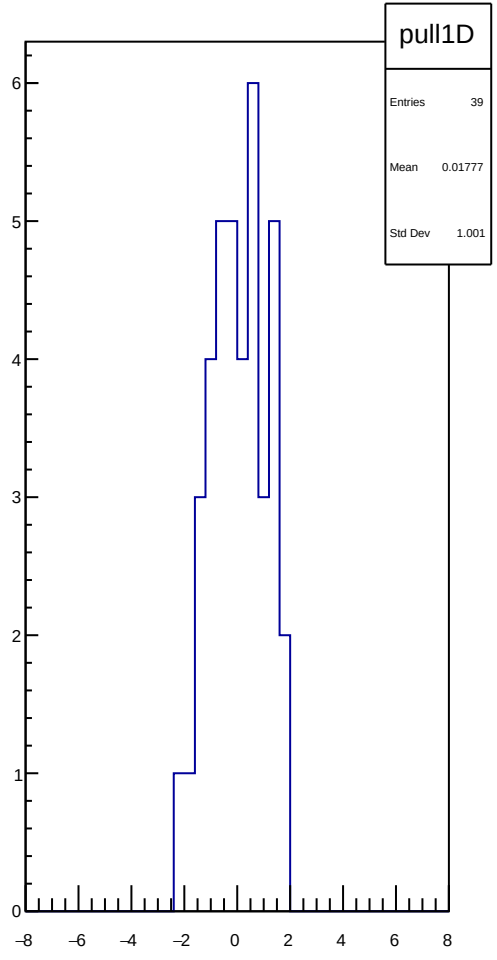

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.127 / 38
p0 −22.75 ± 6.072
pull
Entries 39
Mean 444
Std Dev 433.3

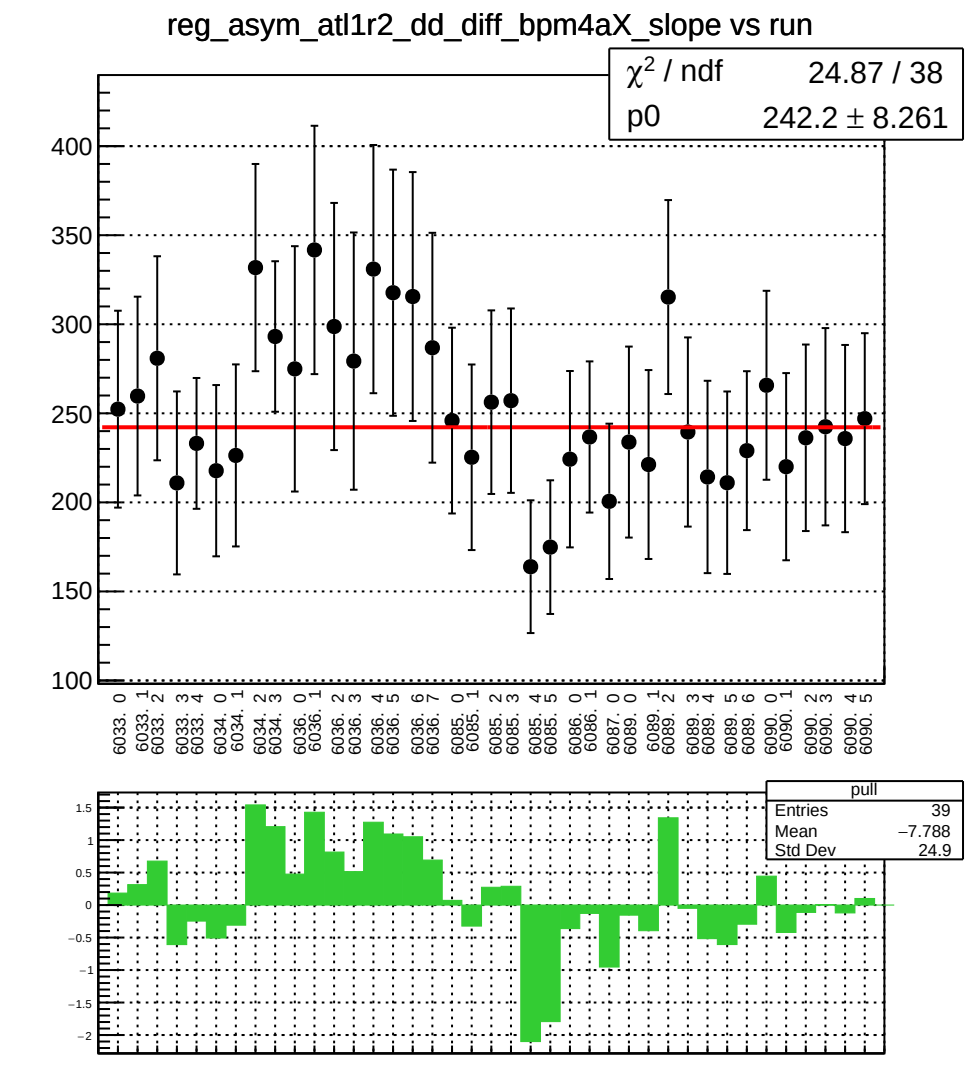

pull1D
Entries 39
Mean −0.002371
Std Dev 0.4565

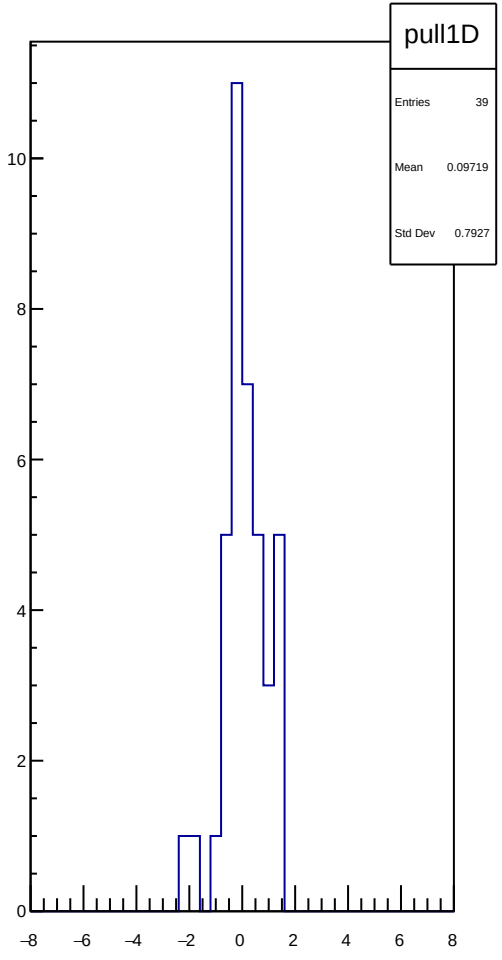

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.5 / 38
p0 408.7 ± 10.92
600
500
400
300
200
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 28.67
Std Dev 4.037
1
0
−1
−2
−3
pull1D
Entries 39
Mean 0.09126
Std Dev 0.9083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

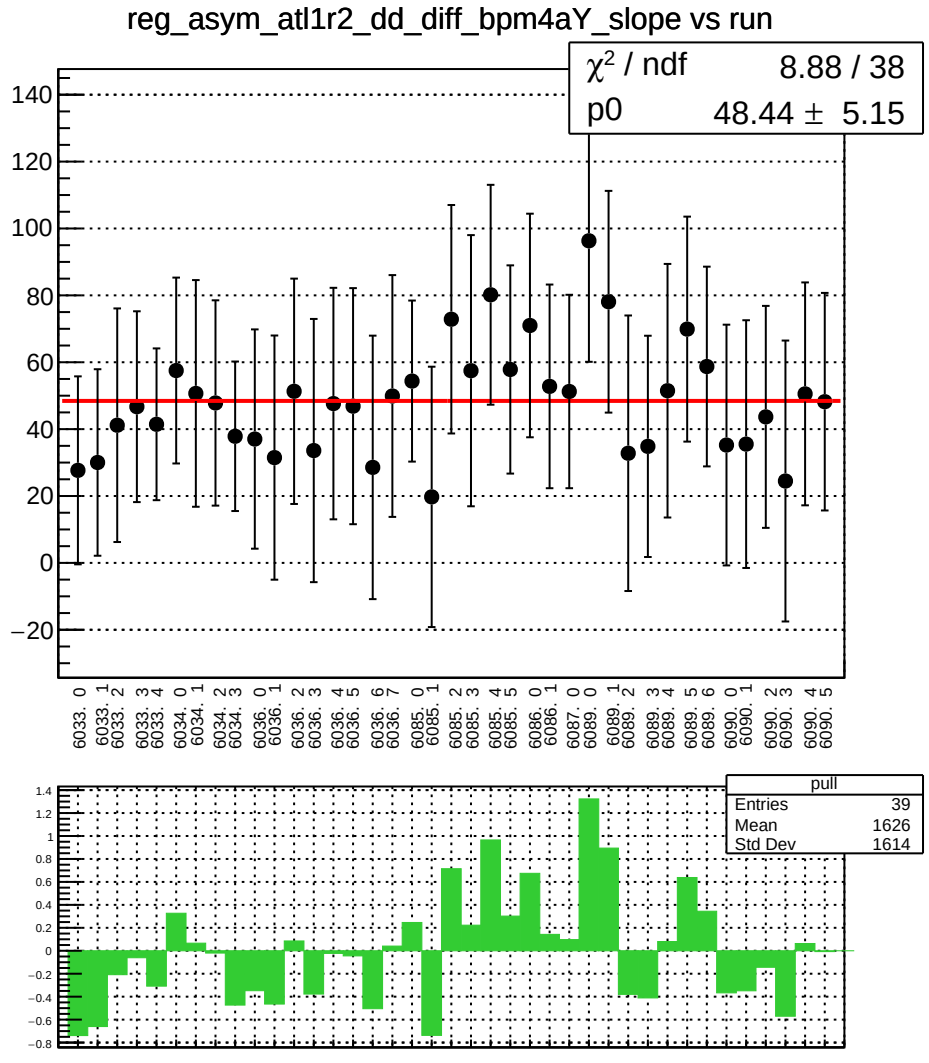

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.03 / 38
p0 97.13 ± 6.481
220
200
180
160
140
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3648
Std Dev 3635
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.000447
Std Dev 0.5071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

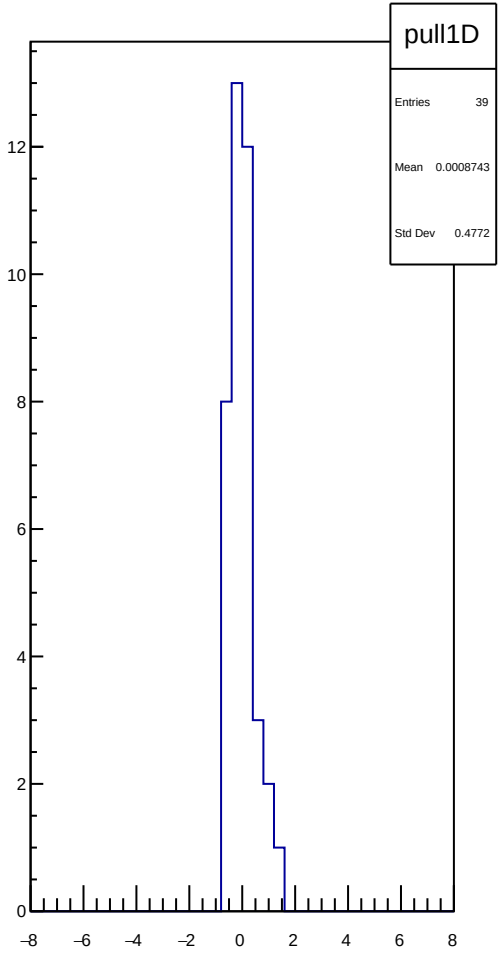

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 39.07 / 38
p0 −129 ± 0.4992
−120
−125
−130
−135
−140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −420.7
Std Dev 439.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

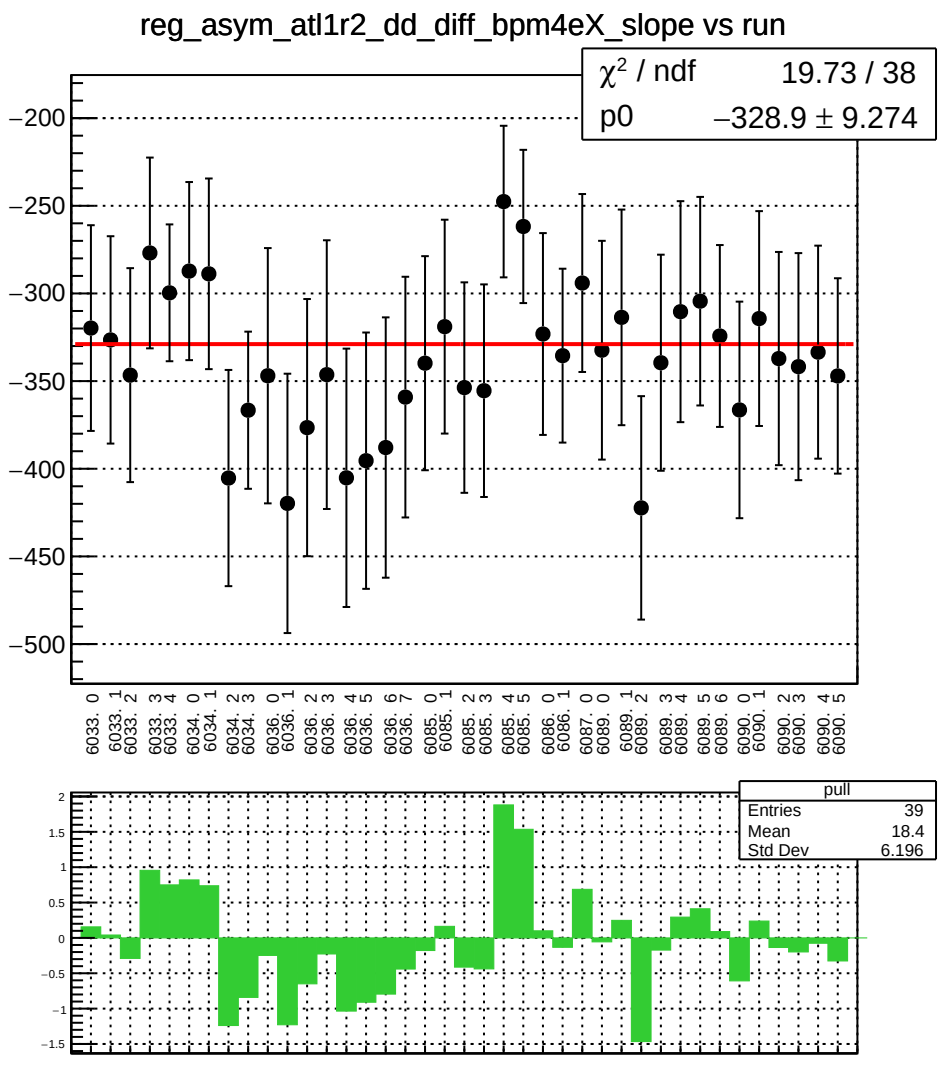

pull1D
Entries 39
Mean 0.01777
Std Dev 1.001
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

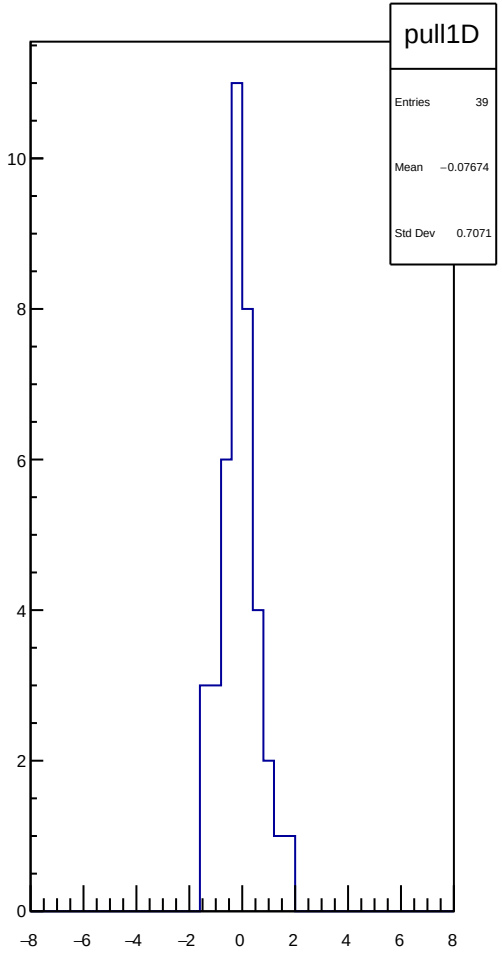

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.87 / 38
p0 242.2 ± 8.261
400
350
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −7.788
Std Dev 24.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

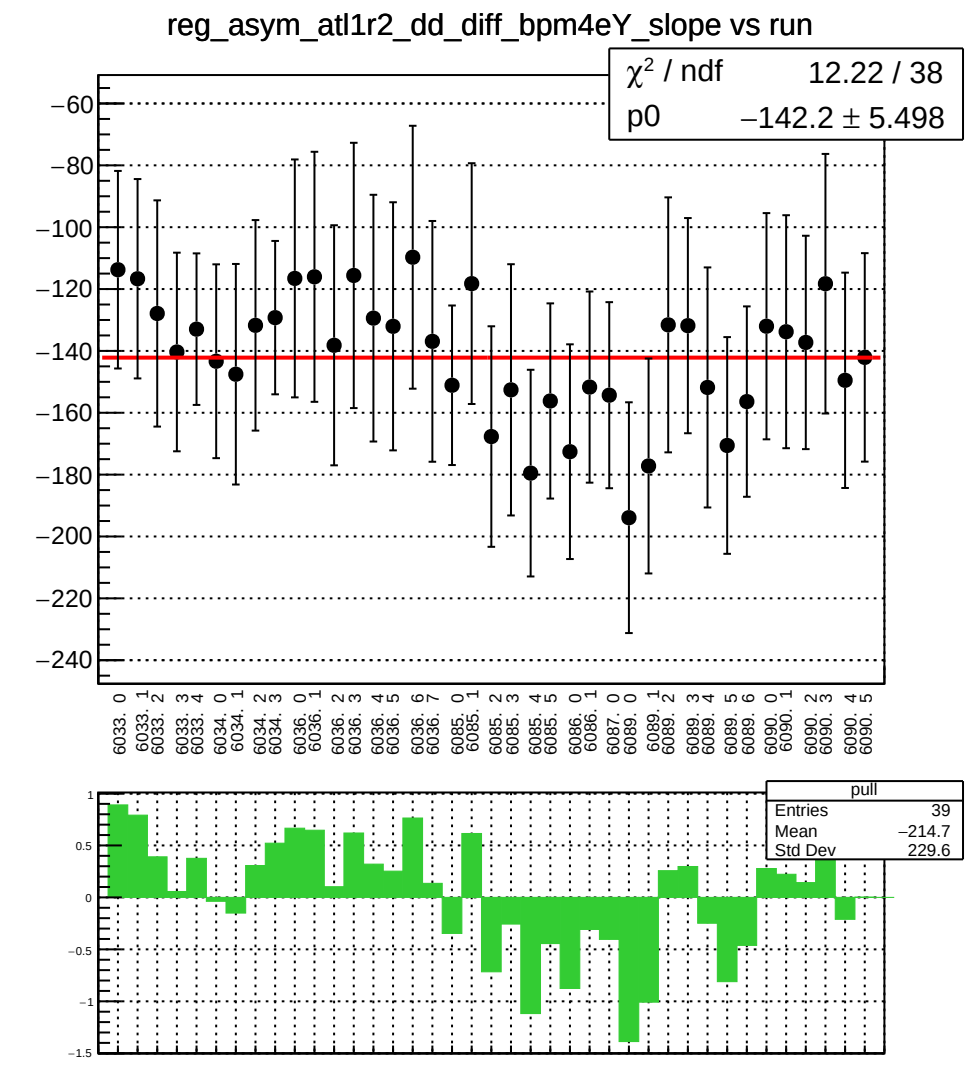

pull1D
Entries 39
Mean 0.09719
Std Dev 0.7927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

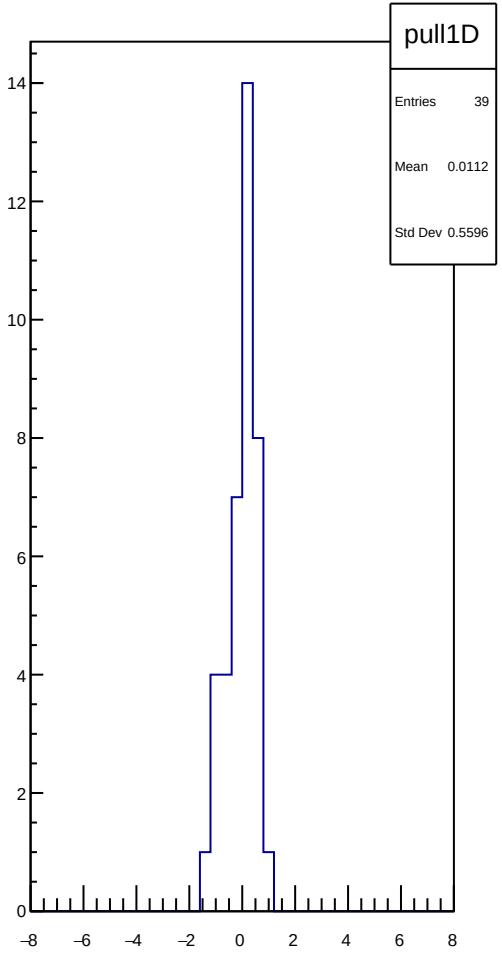

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.88 / 38
p0 48.44 ± 5.15
pull
Entries 39
Mean 1626
Std Dev 1614

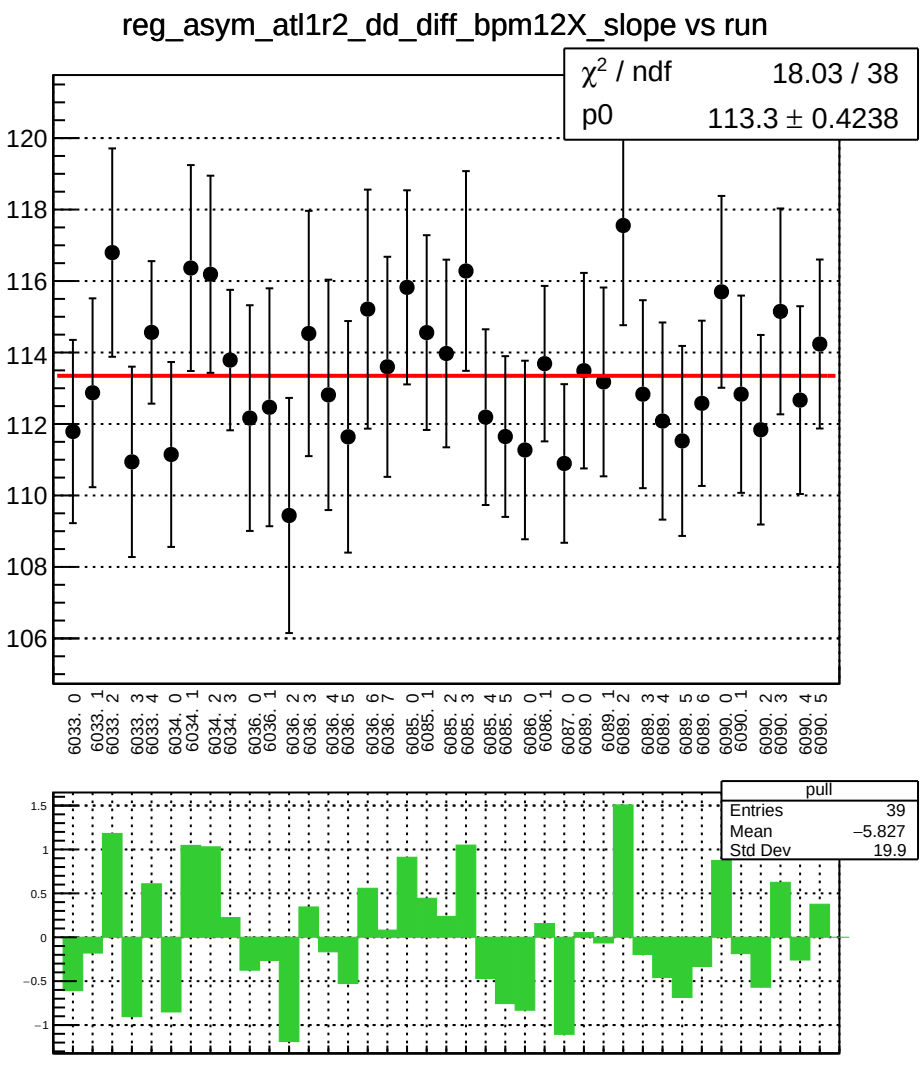

pull1D
Entries 39
Mean 0.0008743
Std Dev 0.4772

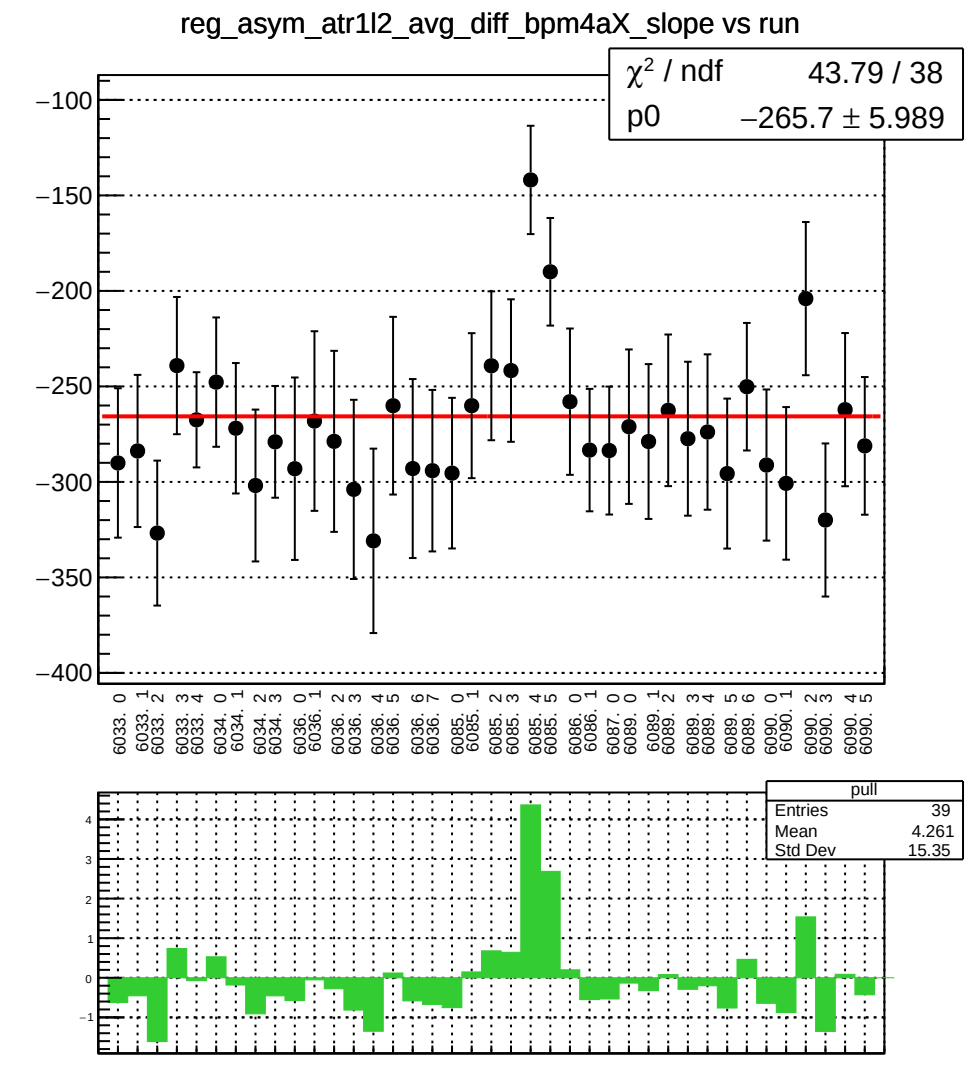

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.73 / 38
p0 −328.9 ± 9.274
−200
−250
−300
−350
−400
−450
−500
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 18.4
Std Dev 6.196
2
1.5
1
0.5
0
−0.5
−1
−1.5

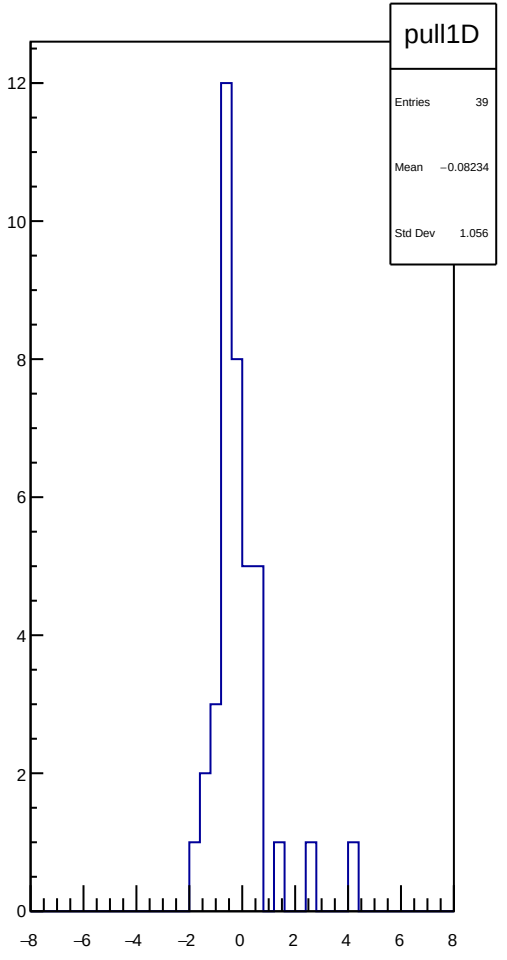

pull1D
Entries 39
Mean −0.07674
Std Dev 0.7071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

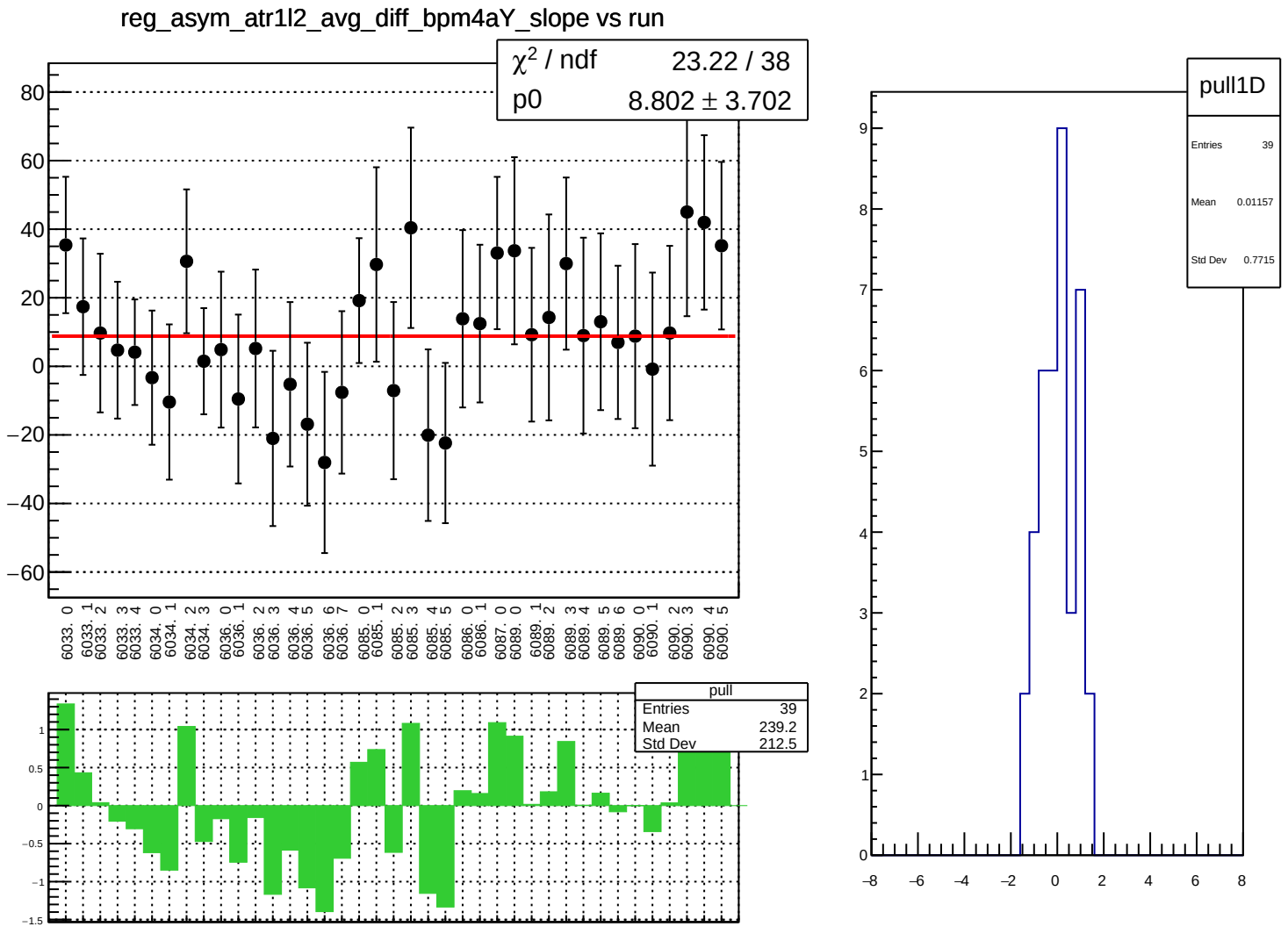

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.22 / 38
p0 −142.2 ± 5.498
pull
Entries 39
Mean −214.7
Std Dev 229.6

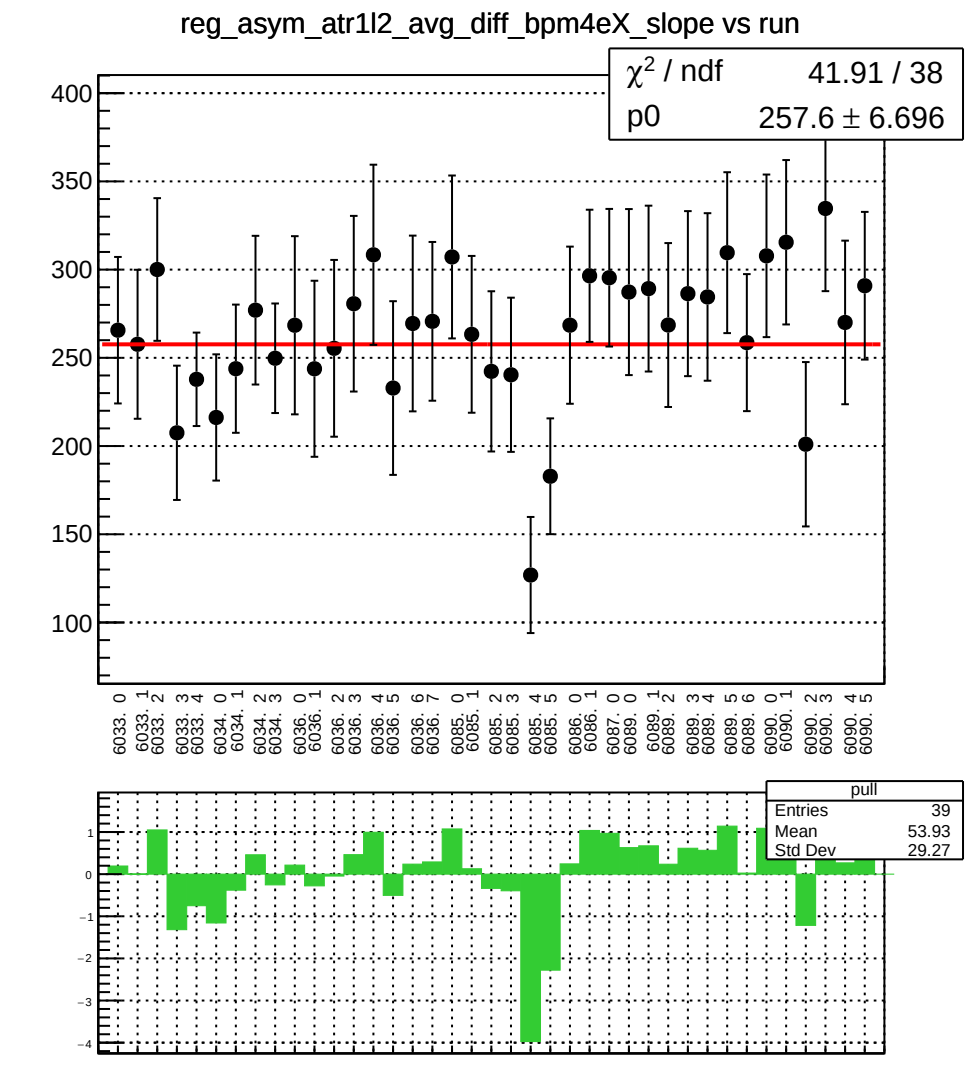

pull1D
Entries 39
Mean 0.0112
Std Dev 0.5596

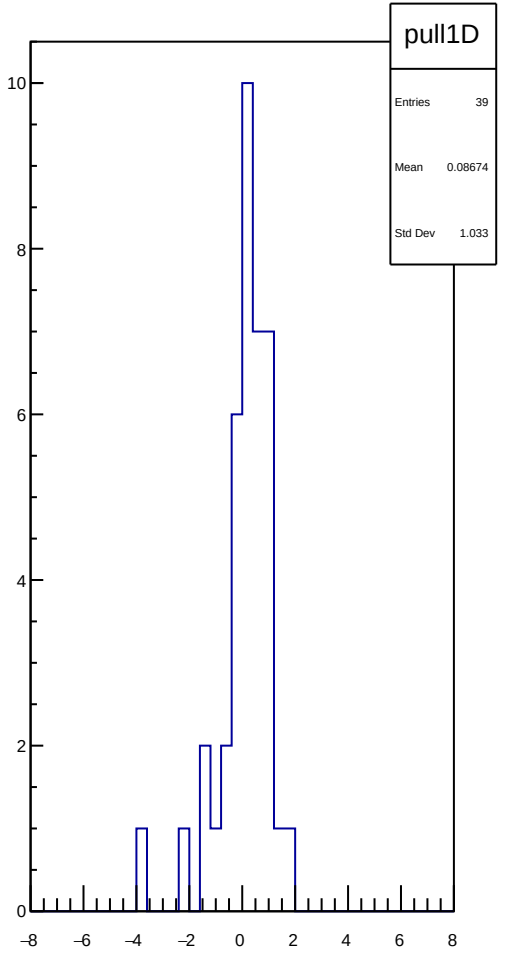

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.03 / 38
p0 113.3 ± 0.4238
120
118
116
114
112
110
108
106
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −5.827
Std Dev 19.9
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 39
Mean 0.008509
Std Dev 0.6799
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

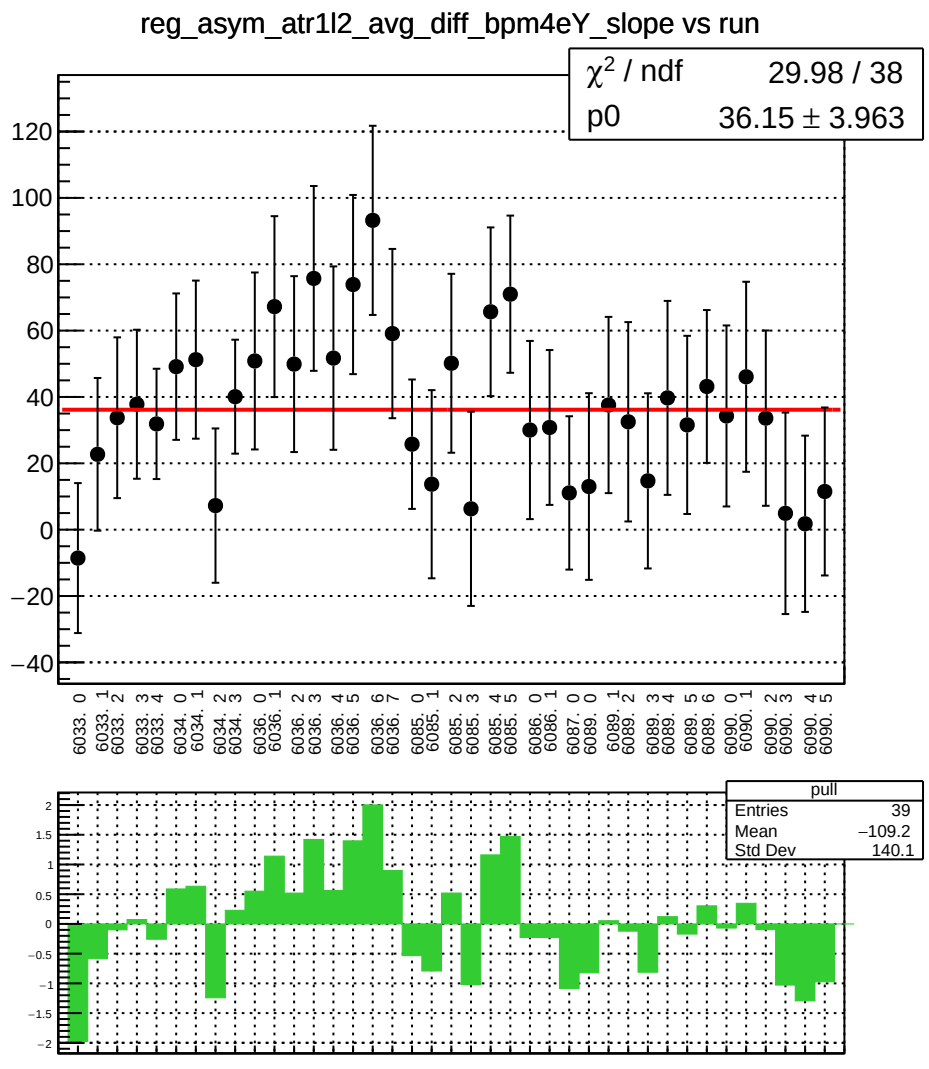

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 43.79 / 38
p0 −265.7 ± 5.989
−100
−150
−200
−250
−300
−350
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 4.261
Std Dev 15.35
4
3
2
1
0
−1

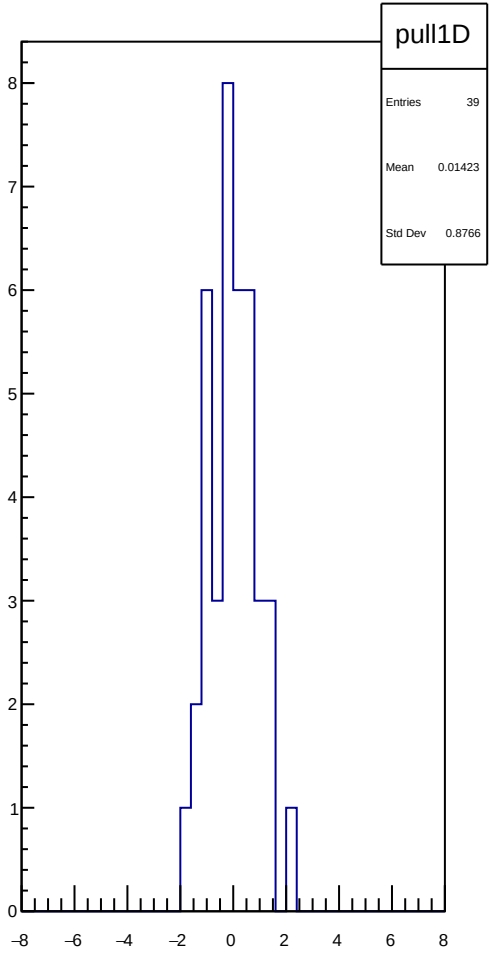

pull1D
Entries 39
Mean −0.08234
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

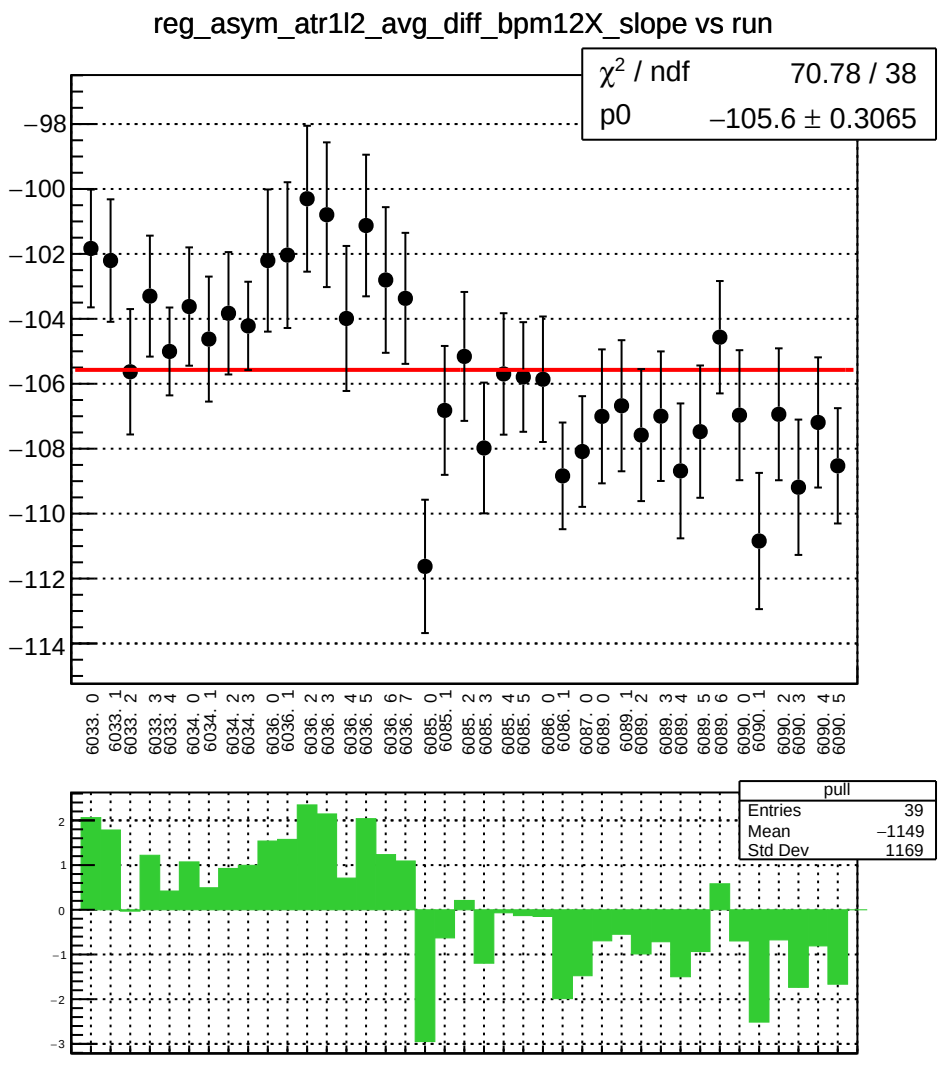

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.22 / 38
p0 8.802 ± 3.702
pull
Entries 39
Mean 239.2
Std Dev 212.5
pull1D
Entries 39
Mean 0.01157
Std Dev 0.7715

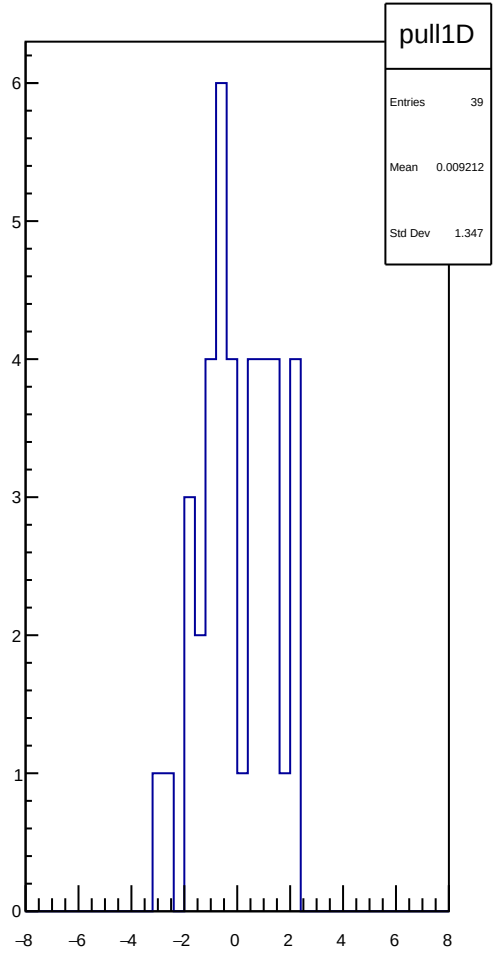

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.91 / 38
p0 257.6 ± 6.696
400
350
300
250
200
150
100
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 53.93
Std Dev 29.27
1
0
−1
−2
−3
−4

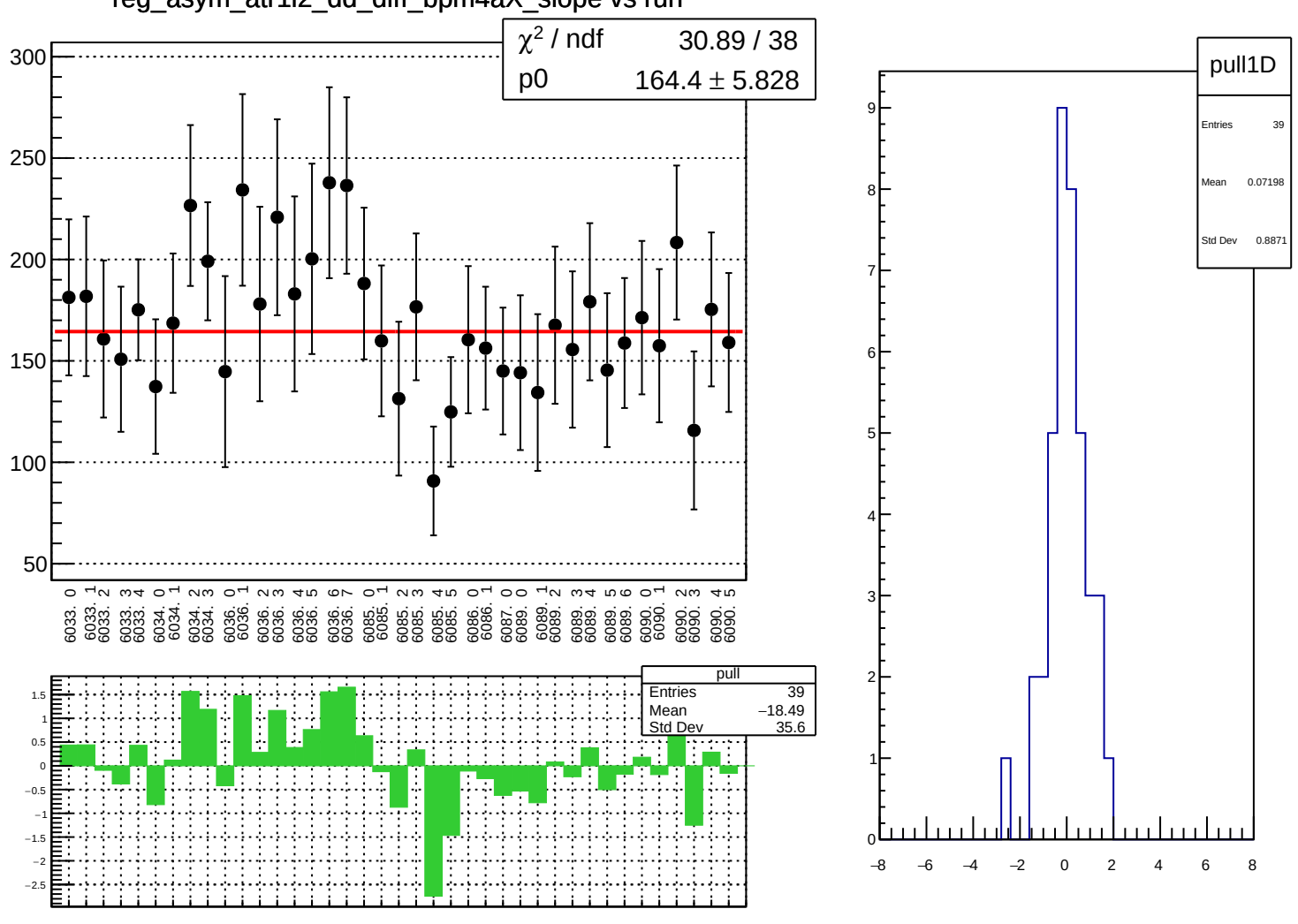

pull1D
Entries 39
Mean 0.08674
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

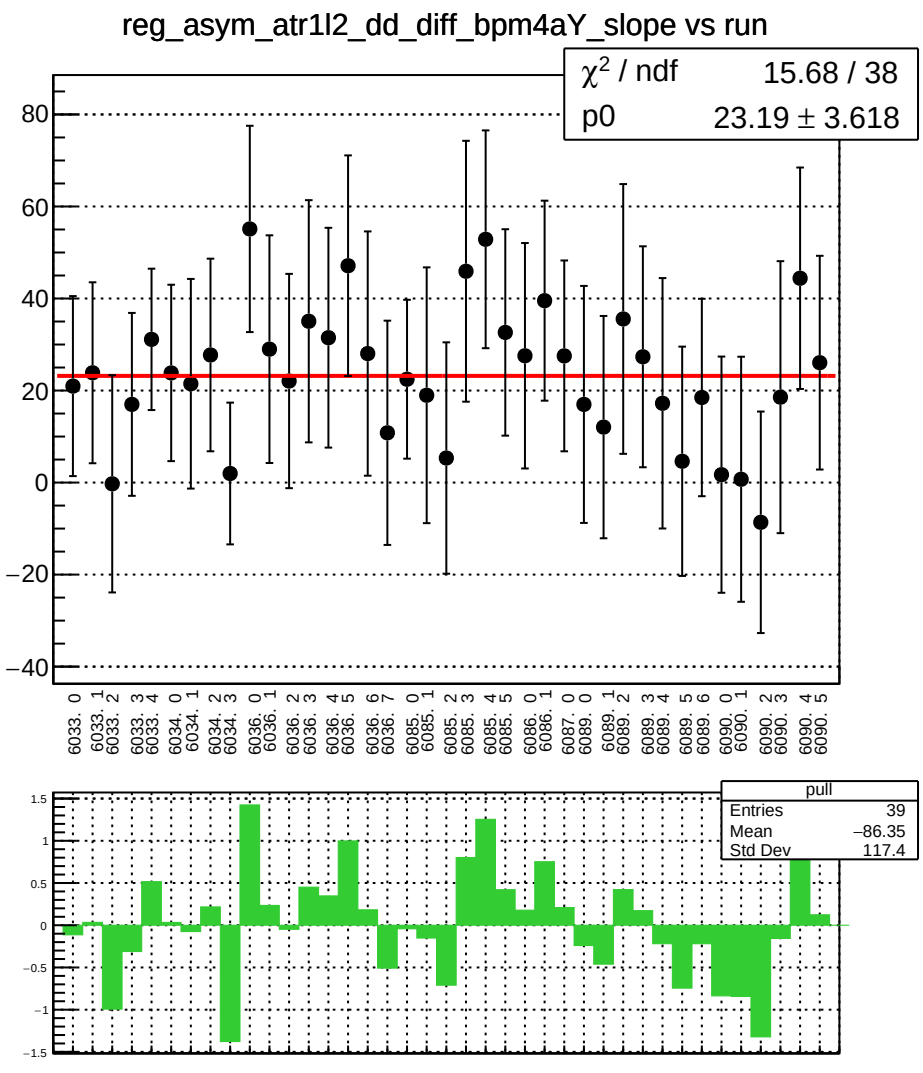

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.98 / 38
p0 36.15 ± 3.963
pull
Entries 39
Mean −109.2
Std Dev 140.1

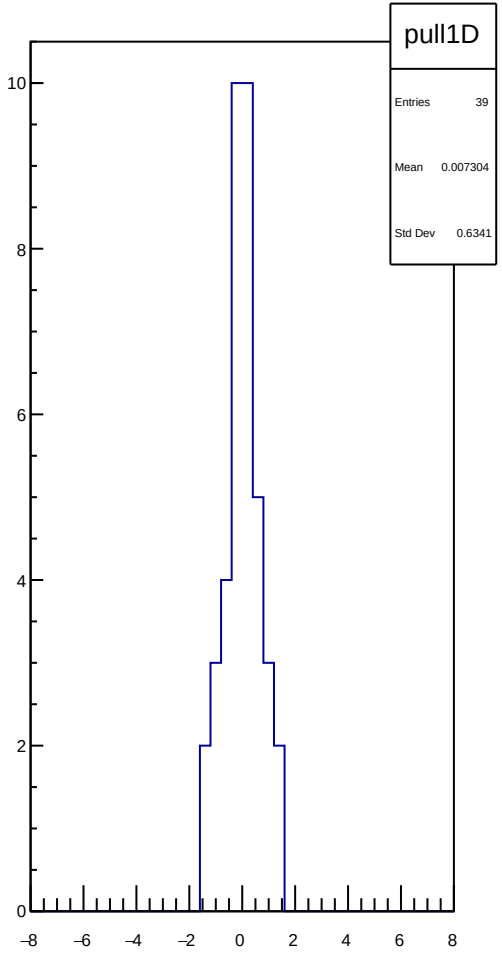

pull1D
Entries 39
Mean 0.01423
Std Dev 0.8766

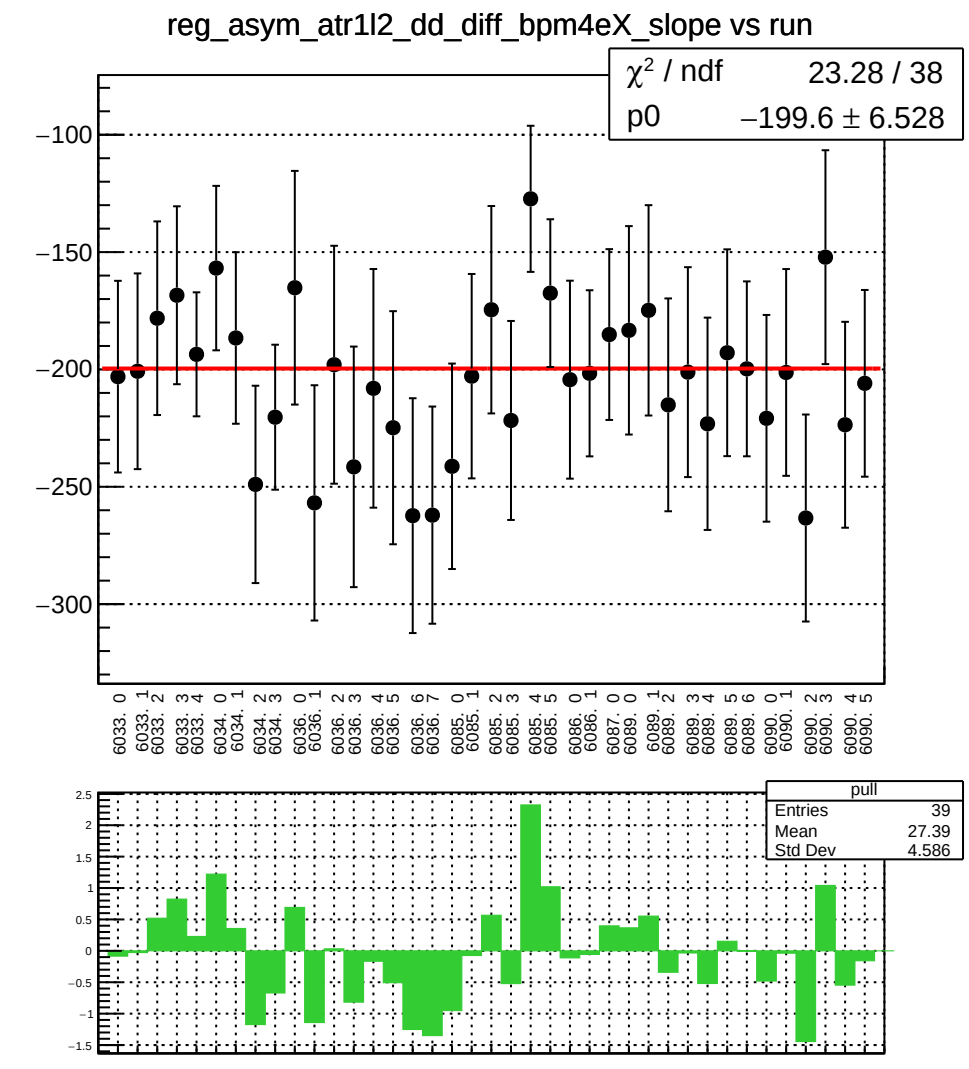

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 70.78 / 38
p0 −105.6 ± 0.3065
pull
Entries 39
Mean −1149
Std Dev 1169

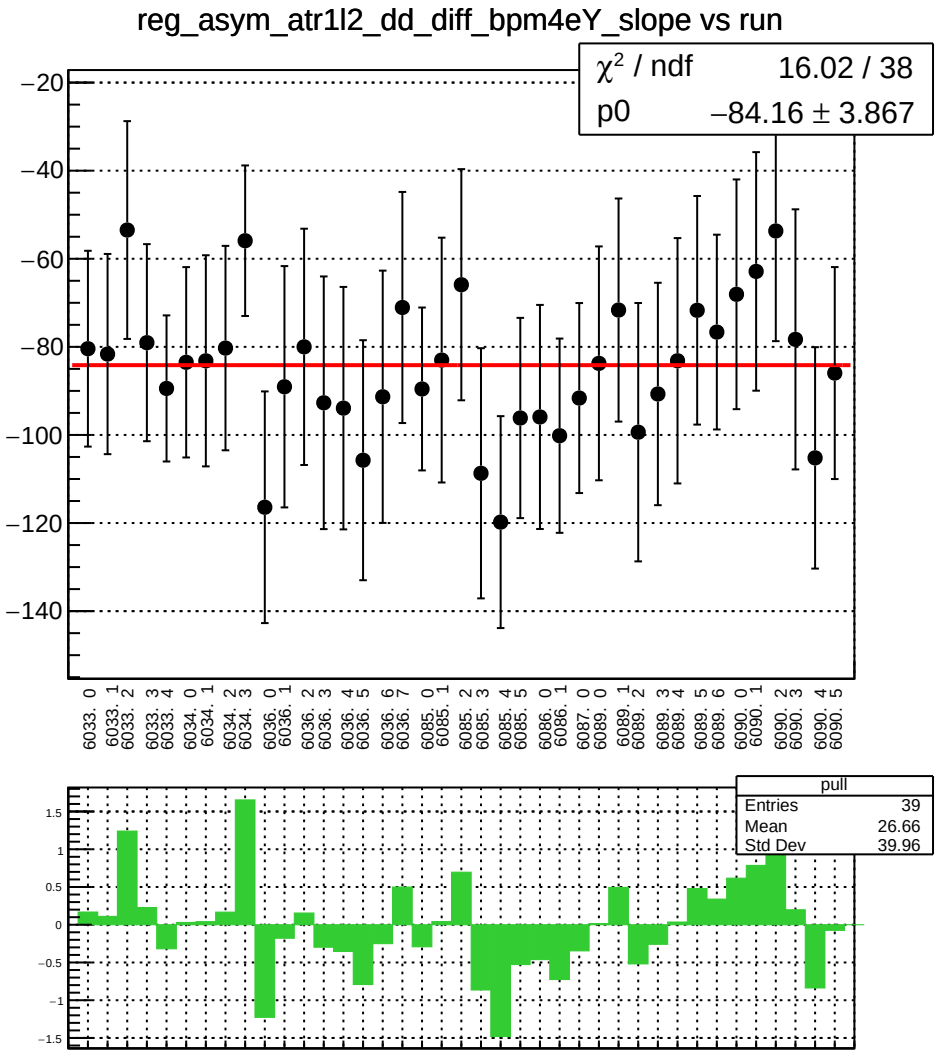

pull1D
Entries 39
Mean 0.009212
Std Dev 1.347

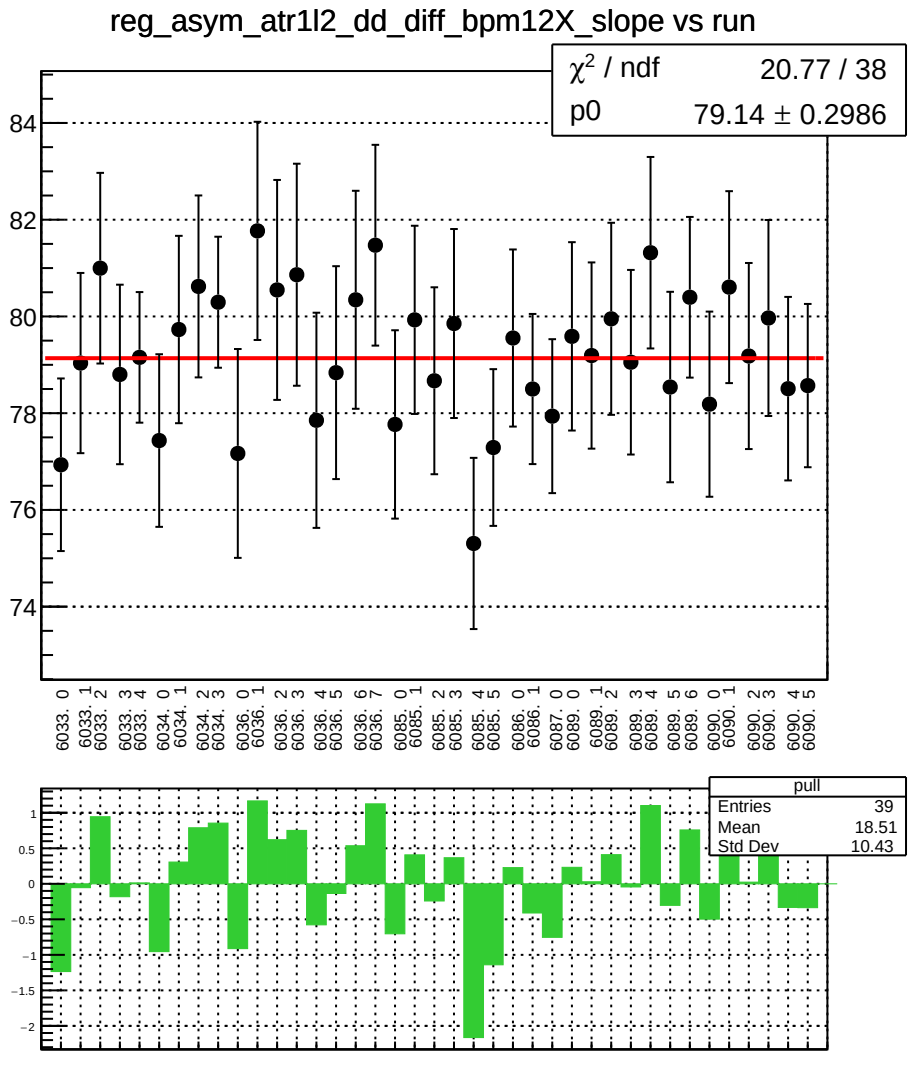

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.89 / 38
p0 164.4 ± 5.828
pull
Entries 39
Mean −18.49
Std Dev 35.6
pull1D
Entries 39
Mean 0.07198
Std Dev 0.8871

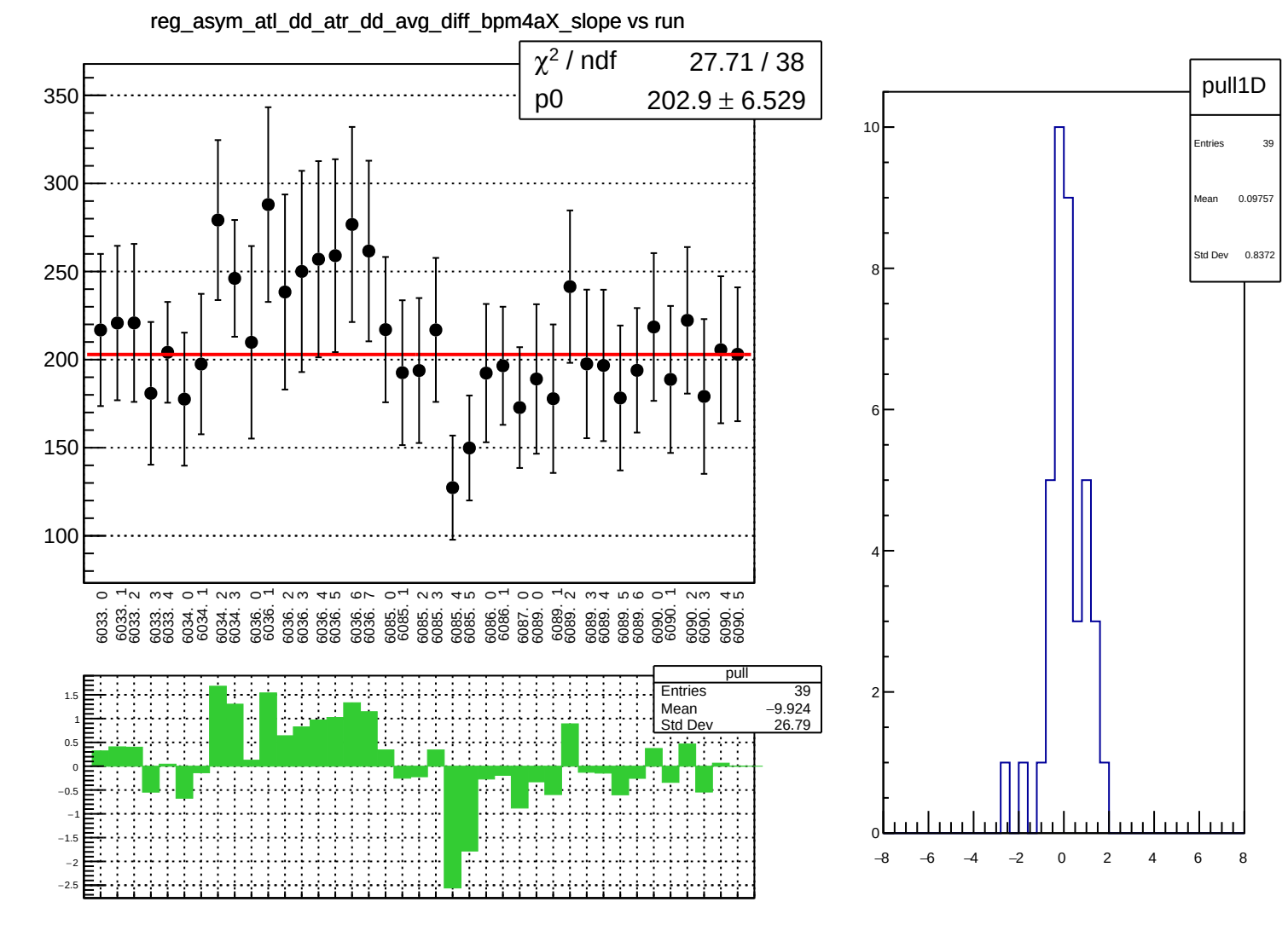

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.68 / 38
p0 23.19 ± 3.618
pull
Entries 39
Mean −86.35
Std Dev 117.4

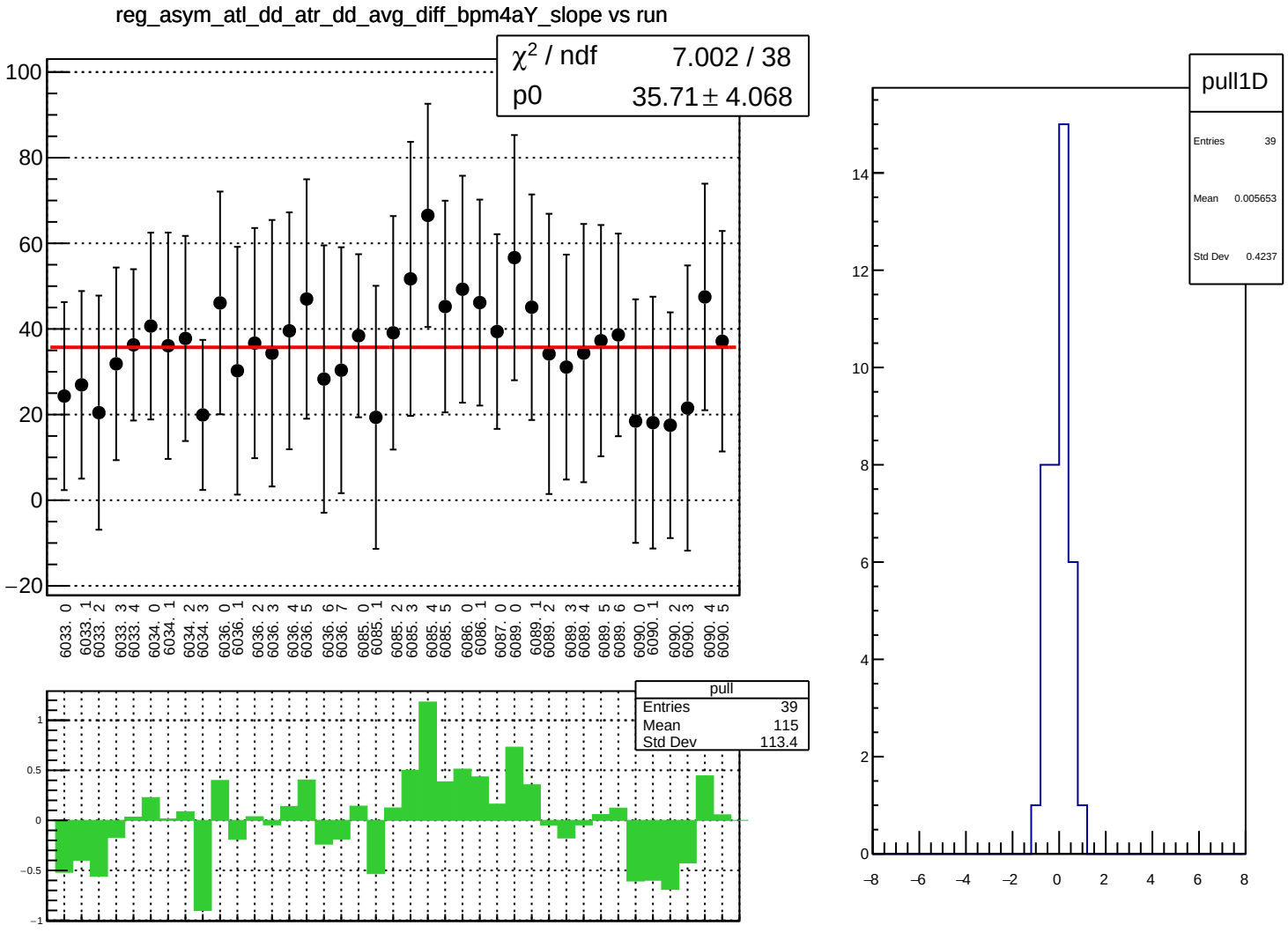

pull1D
Entries 39
Mean 0.007304
Std Dev 0.6341

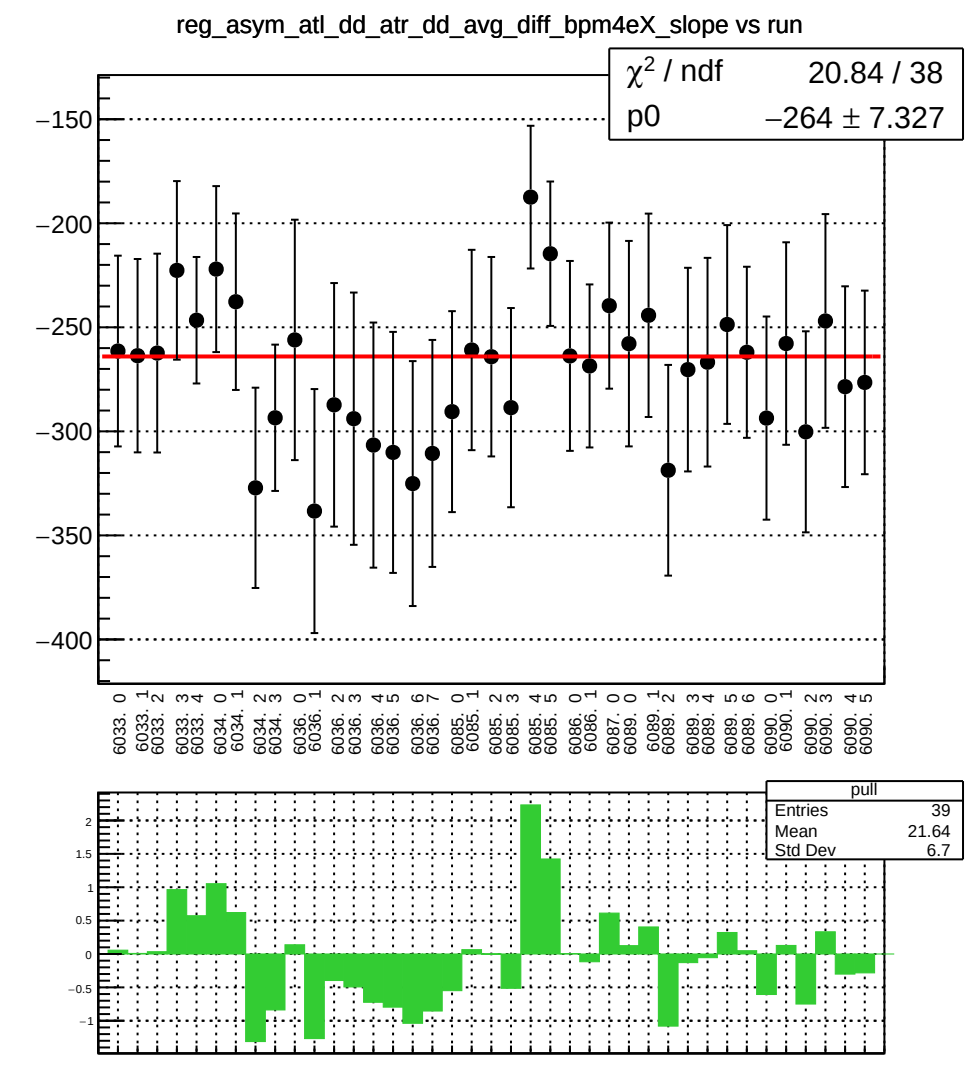

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.28 / 38
p0 −199.6 ± 6.528
−100
−150
−200
−250
−300
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 27.39
Std Dev 4.586
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.05611
Std Dev 0.7707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

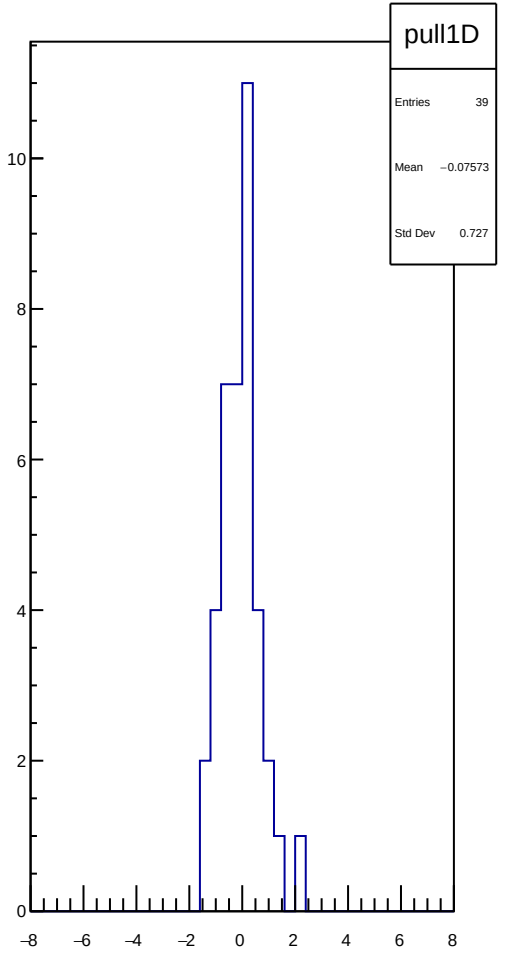

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 38
p0 −84.16 ± 3.867
−20
−40
−60
−80
−100
−120
−140
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 26.66
Std Dev 39.96
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.01524
Std Dev 0.6408
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

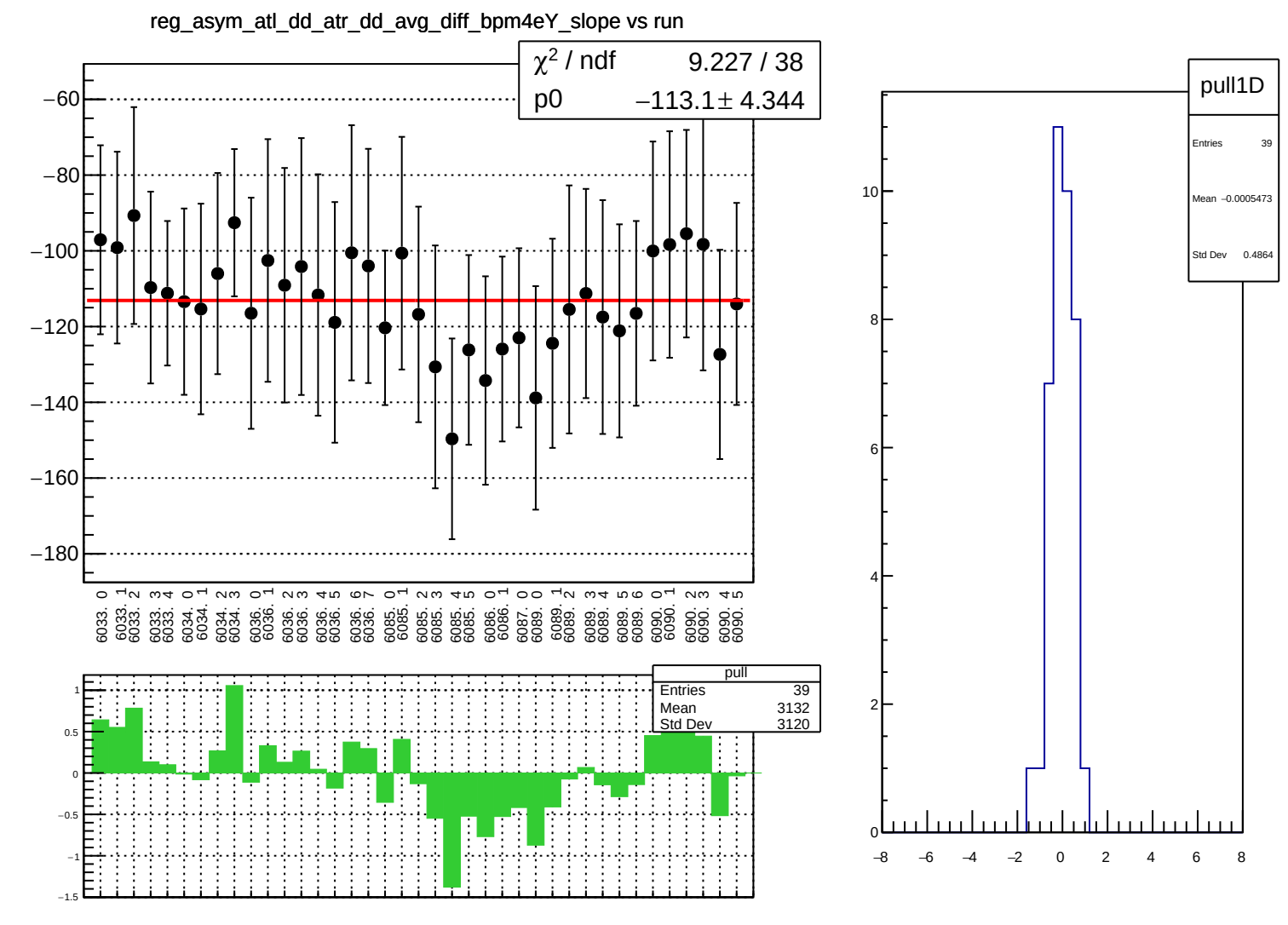

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.77 / 38
p0 79.14 ± 0.2986
84
82
80
78
76
74
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 18.51
Std Dev 10.43
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean 0.02155
Std Dev 0.7295
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

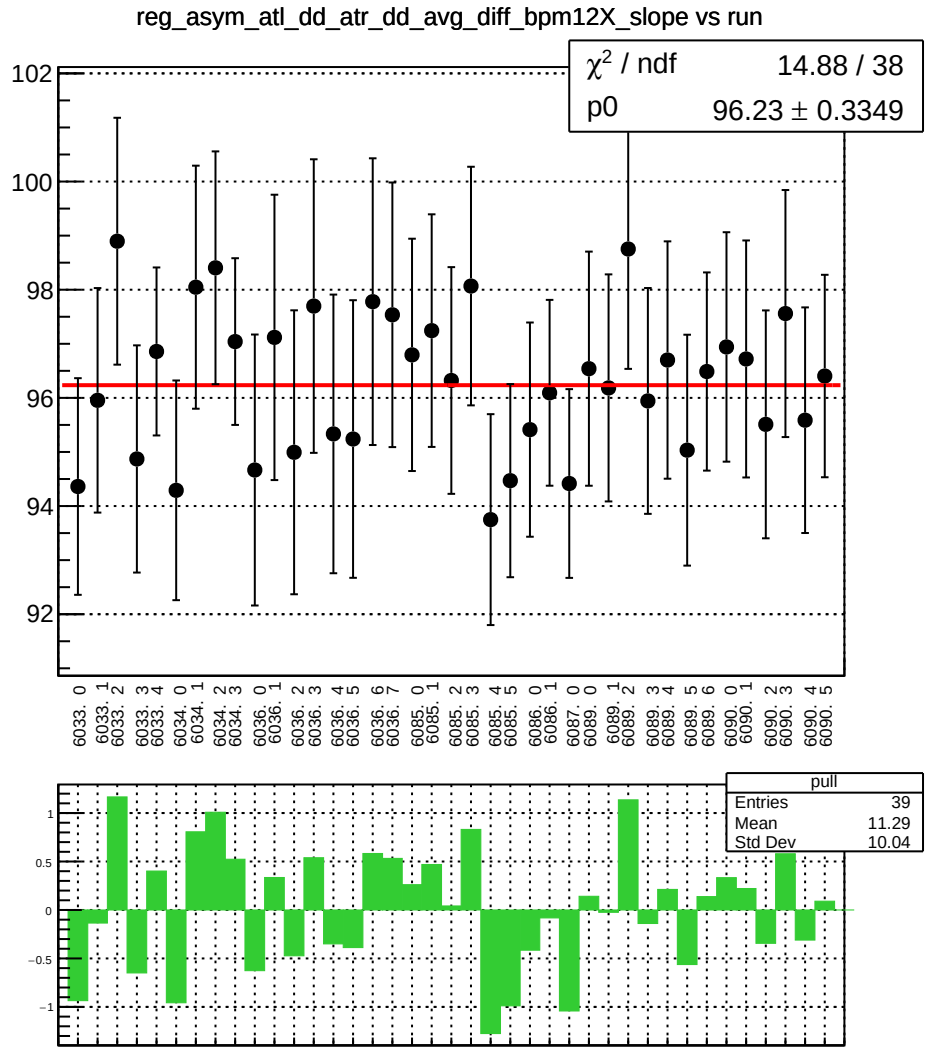

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.71 / 38
p0 202.9 ± 6.529
pull
Entries 39
Mean −9.924
Std Dev 26.79
pull1D
Entries 39
Mean 0.09757
Std Dev 0.8372

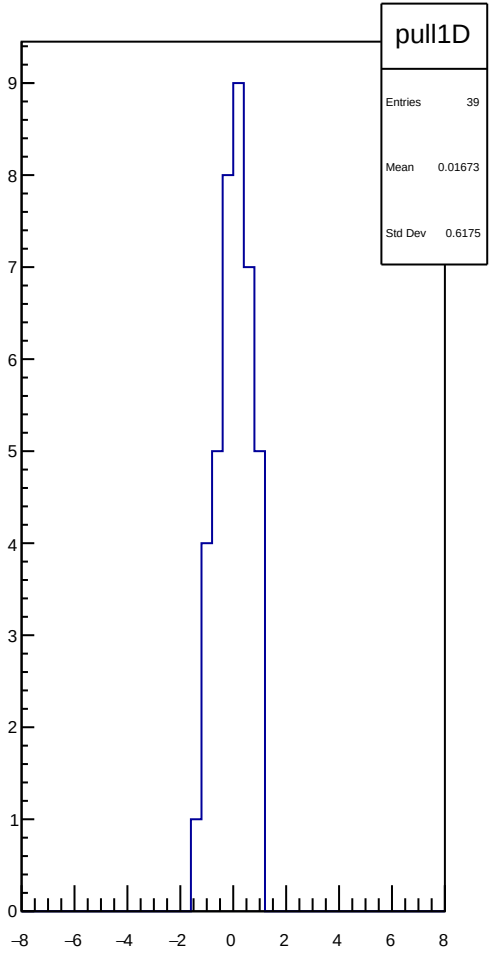

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.002 / 38
p0 35.71 ± 4.068
pull
Entries 39
Mean 115
Std Dev 113.4
pull1D
Entries 39
Mean 0.005653
Std Dev 0.4237

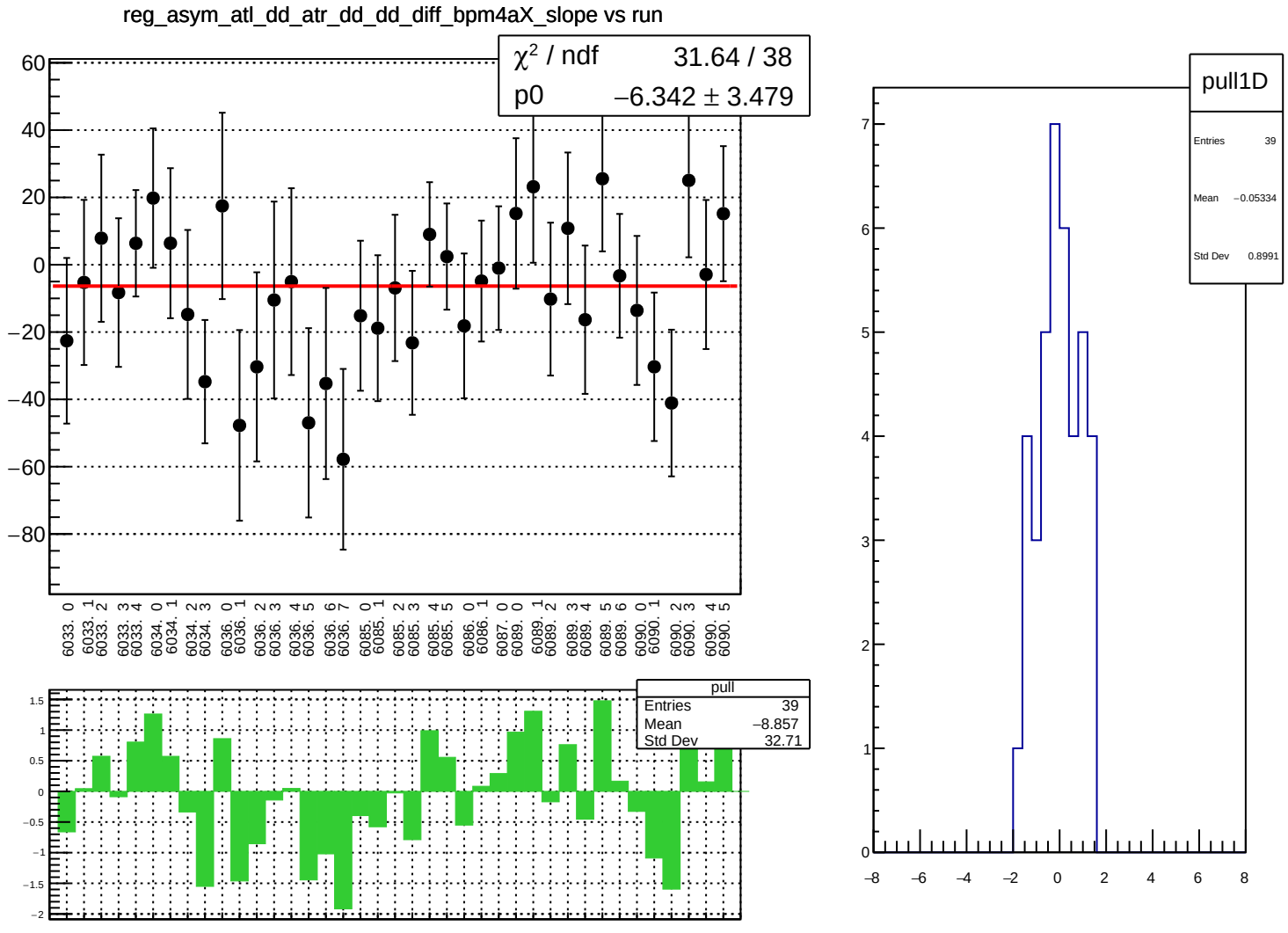

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.84 / 38
p0 −264 ± 7.327
−150
−200
−250
−300
−350
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 21.64
Std Dev 6.7
2
1.5
1
0.5
0
−0.5
−1

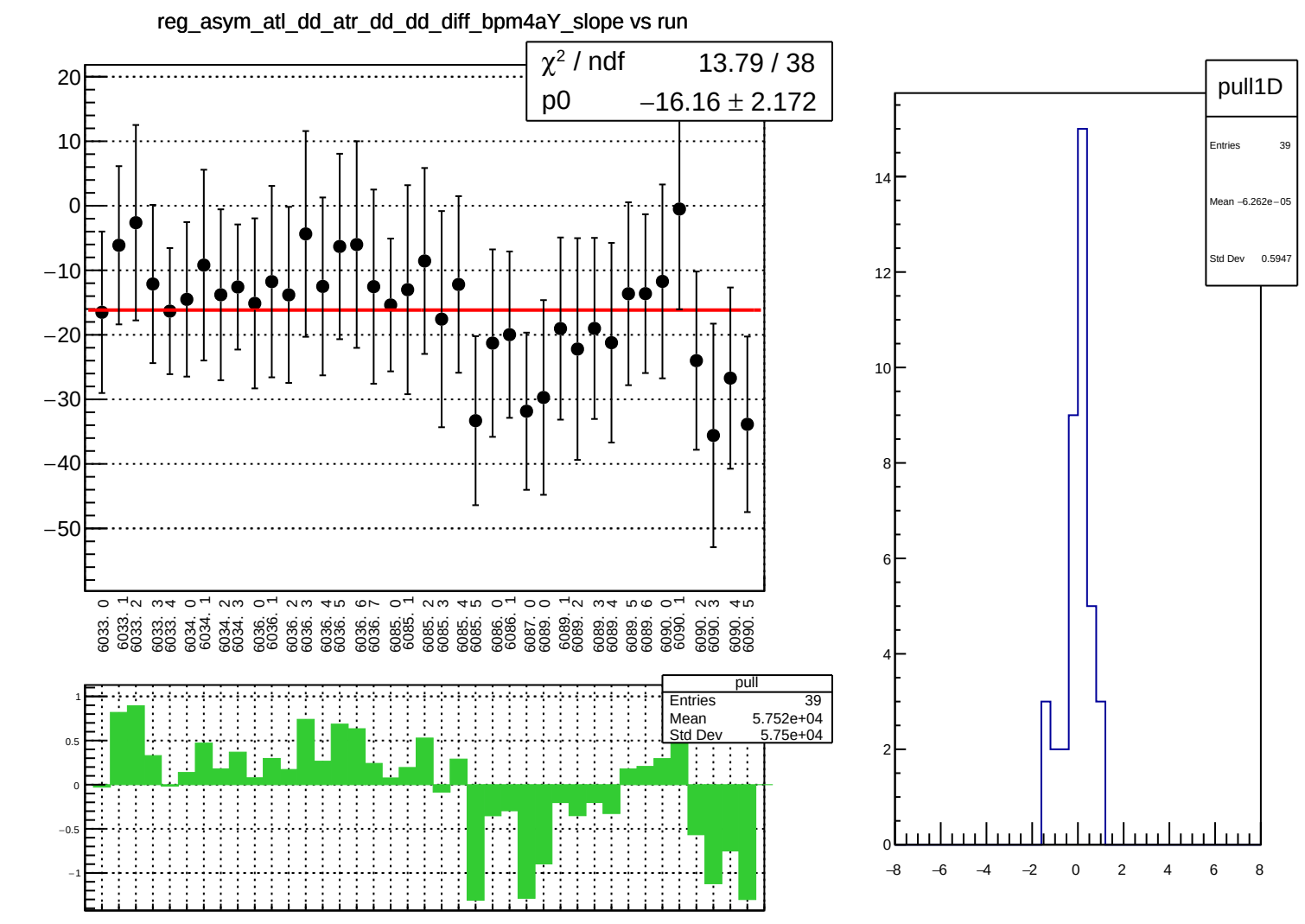

pull1D
Entries 39
Mean −0.07573
Std Dev 0.727
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

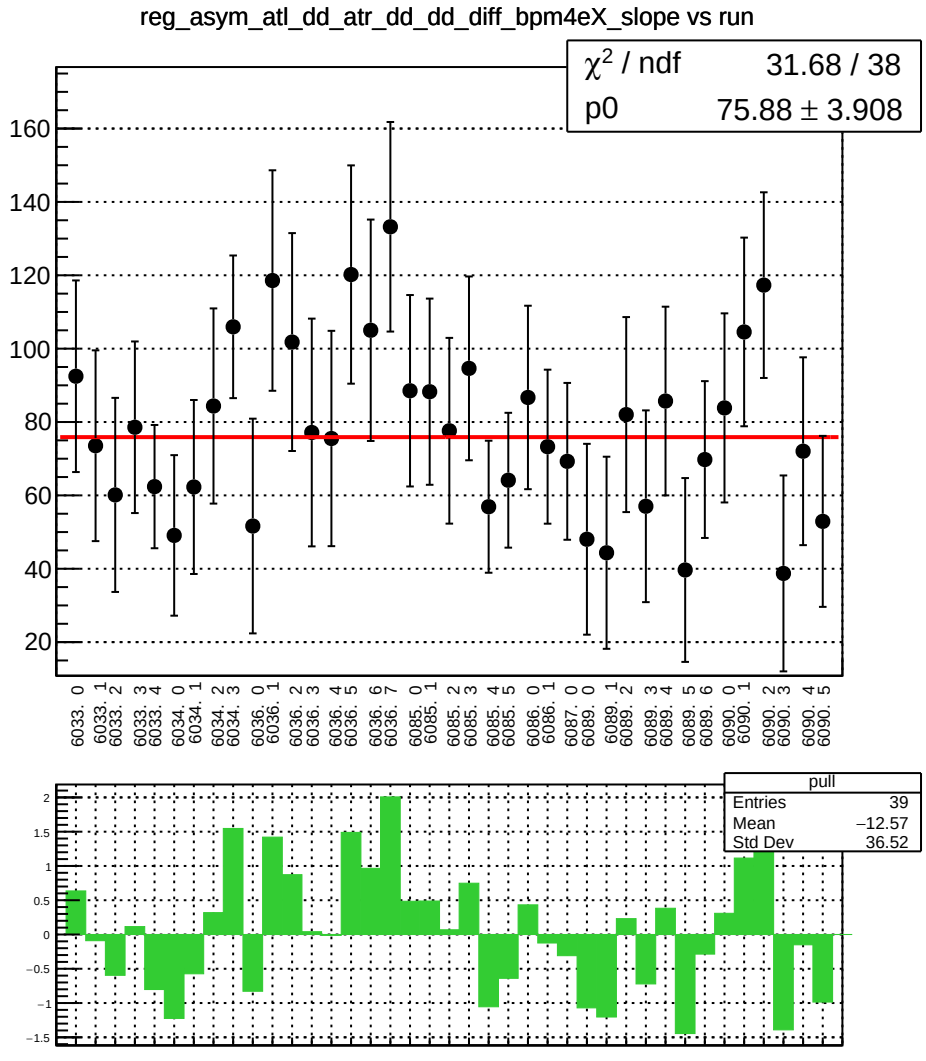

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.227 / 38
p0 −113.1 ± 4.344
−60
−80
−100
−120
−140
−160
−180
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3132
Std Dev 3120
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 39
Mean −0.0005473
Std Dev 0.4864
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

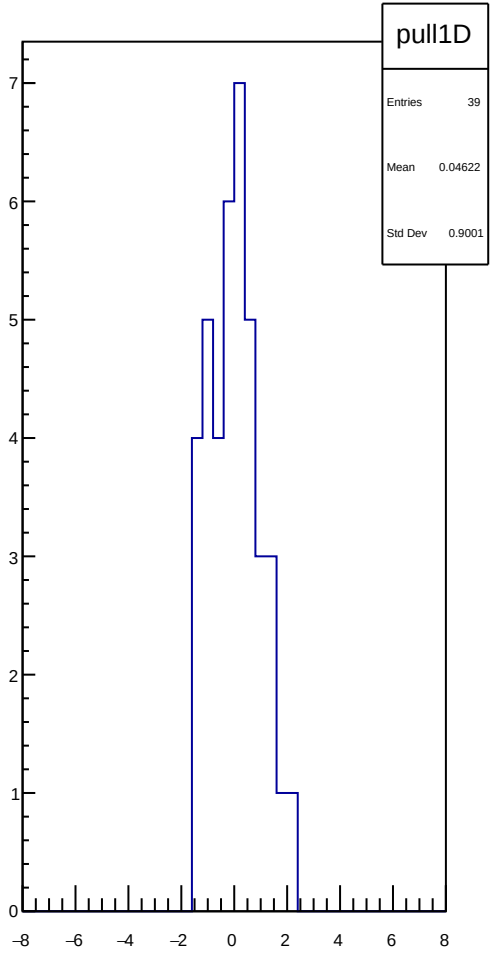

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 14.88 / 38
p0 96.23 ± 0.3349
102
100
98
96
94
92
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 11.29
Std Dev 10.04
1
0.5
0
−0.5
−1

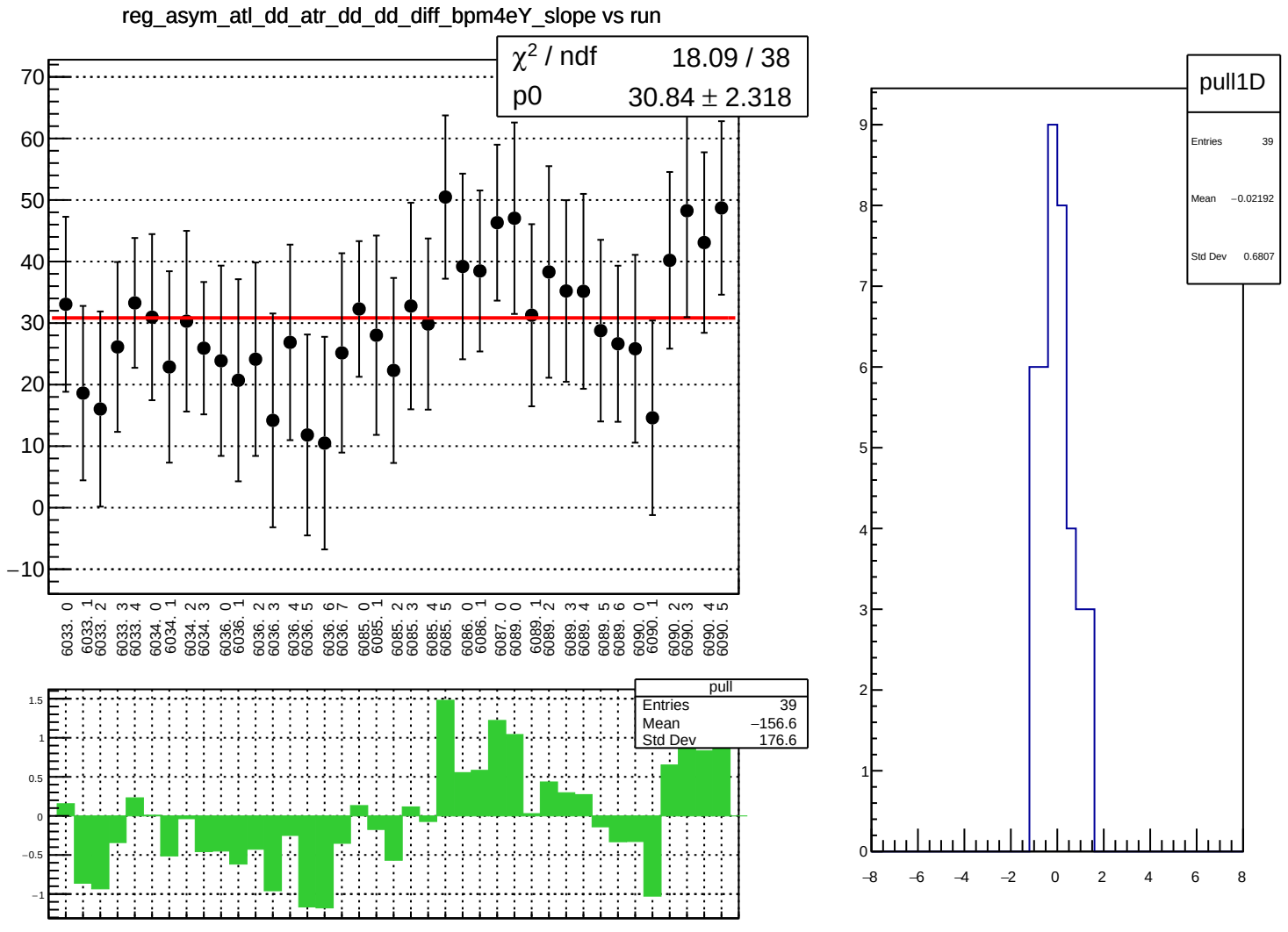

pull1D
Entries 39
Mean 0.01673
Std Dev 0.6175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

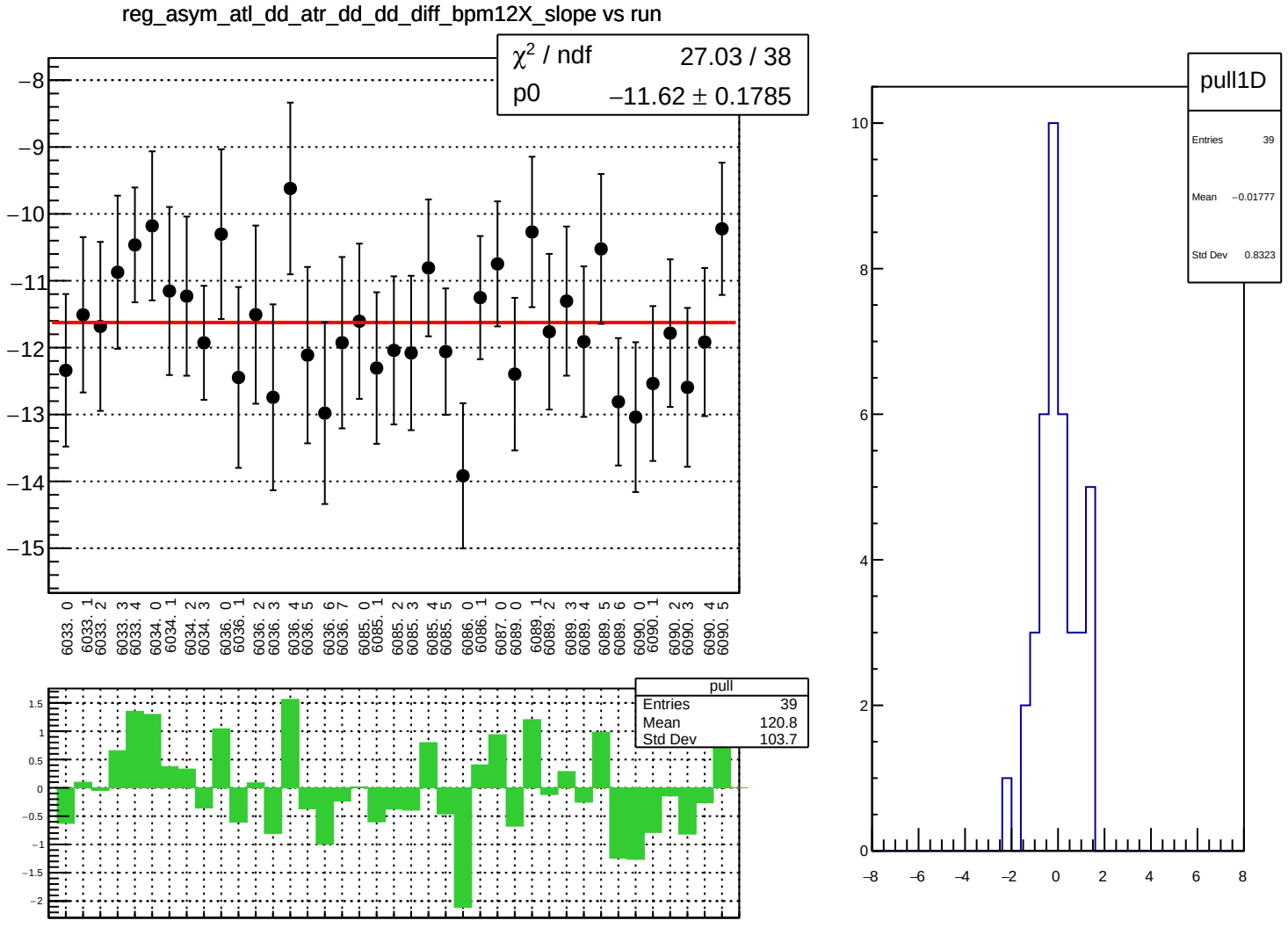

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.64 / 38
p0 −6.342 ± 3.479
60
40
20
0
−20
−40
−60
−80
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −8.857
Std Dev 32.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 39
Mean −0.05334
Std Dev 0.8991
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

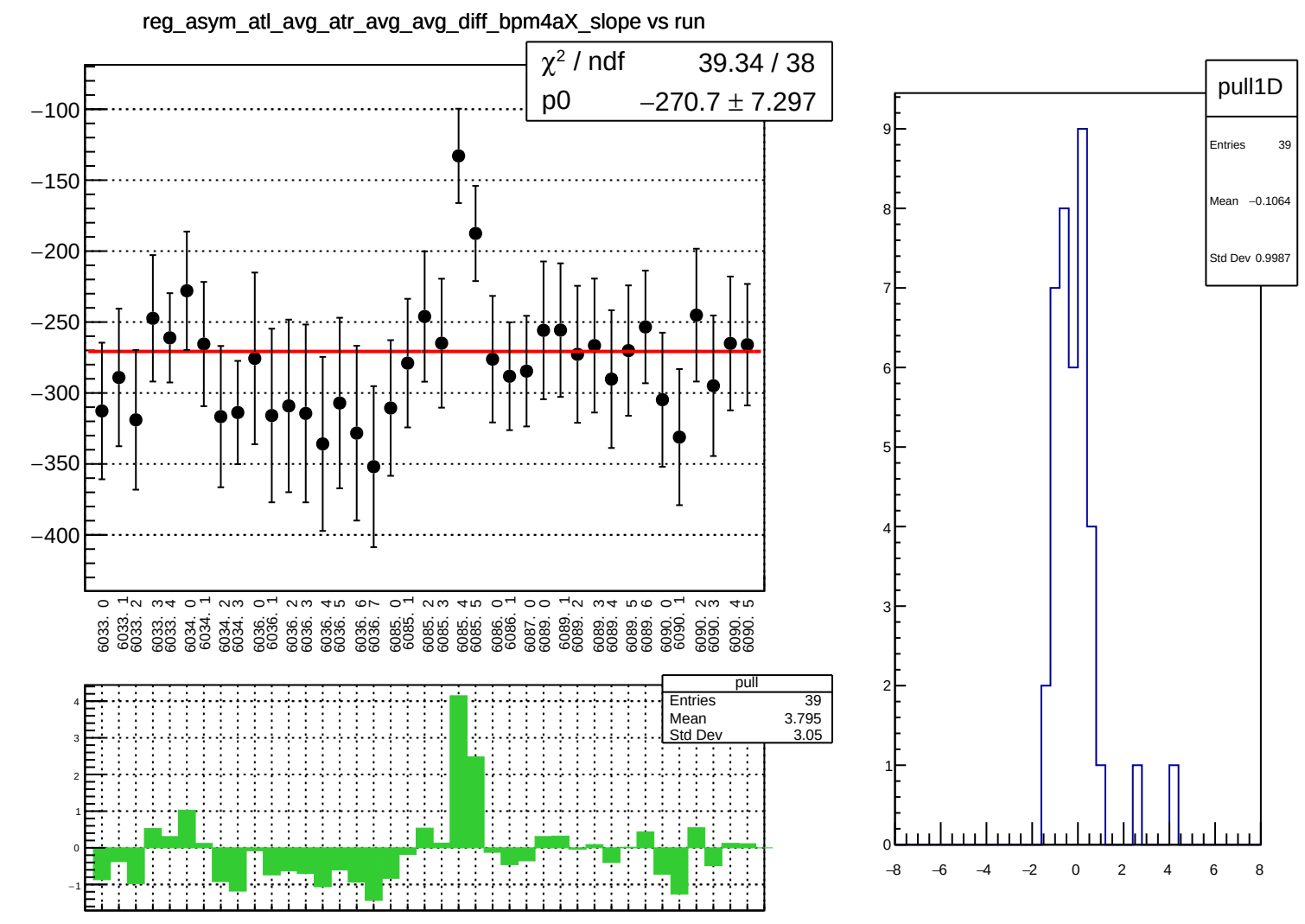

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.79 / 38
p0 −16.16 ± 2.172
pull
Entries 39
Mean 5.752e+04
Std Dev 5.75e+04
pull1D
Entries 39
Mean −6.262e−05
Std Dev 0.5947

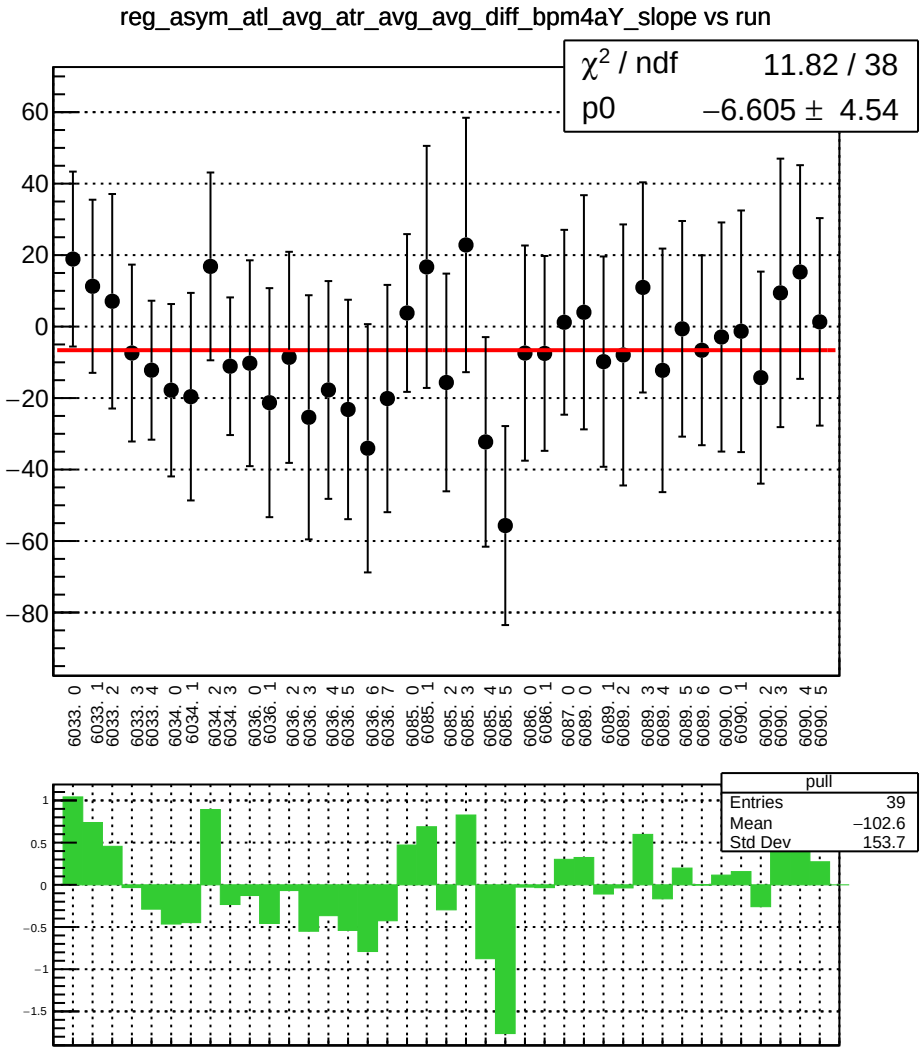

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.68 / 38
p0 75.88 ± 3.908
160
140
120
100
80
60
40
20
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −12.57
Std Dev 36.52
2
1.5
1
0.5
0
−0.5
−1
−1.5

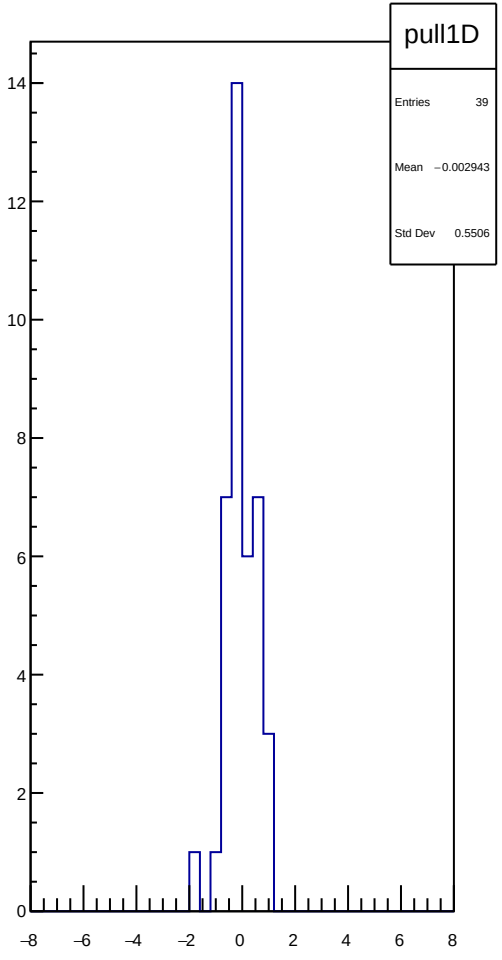

pull1D
Entries 39
Mean 0.04622
Std Dev 0.9001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

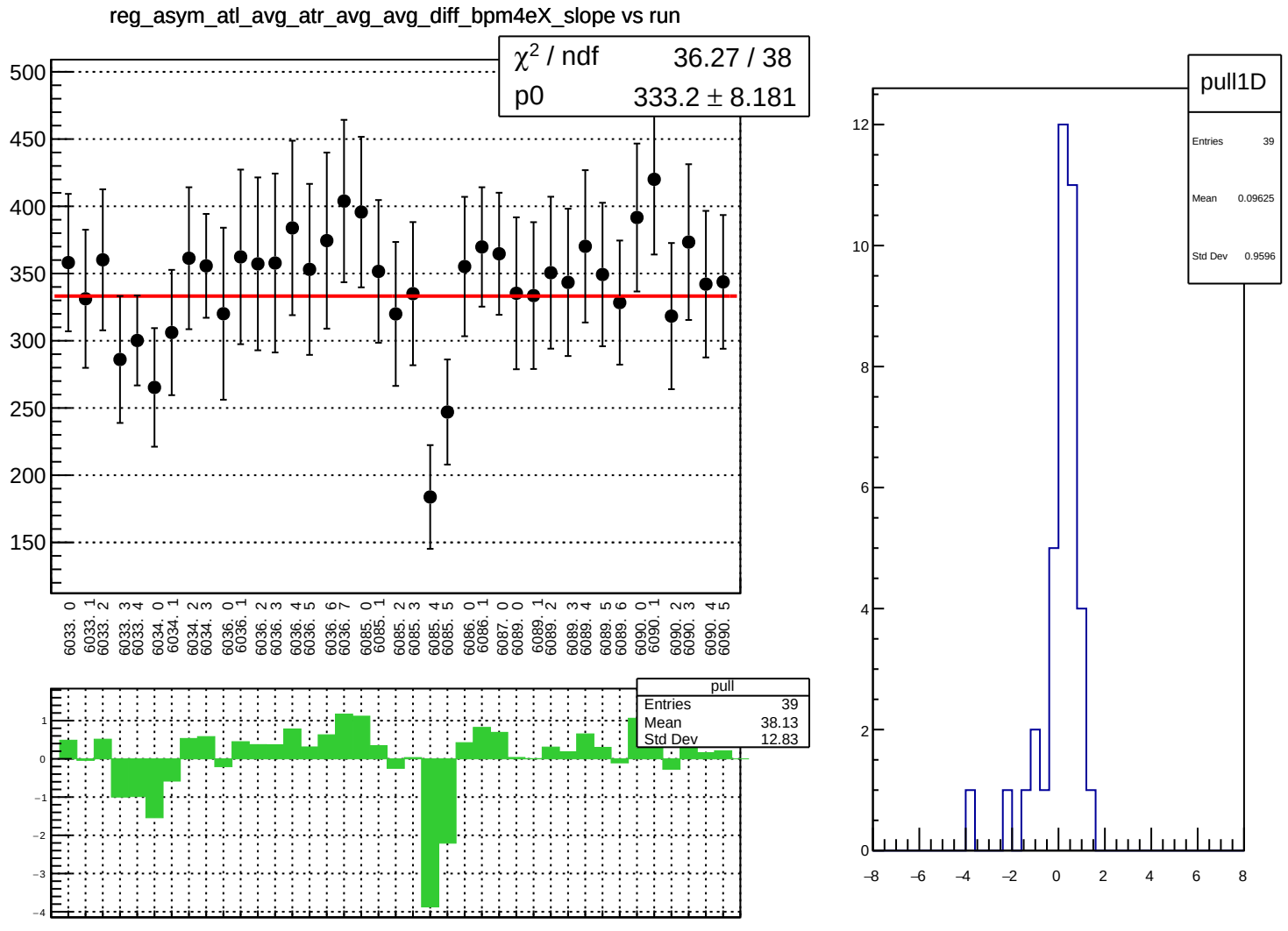

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.09 / 38
p0 30.84 ± 2.318
pull
Entries 39
Mean −156.6
Std Dev 176.6
pull1D
Entries 39
Mean −0.02192
Std Dev 0.6807

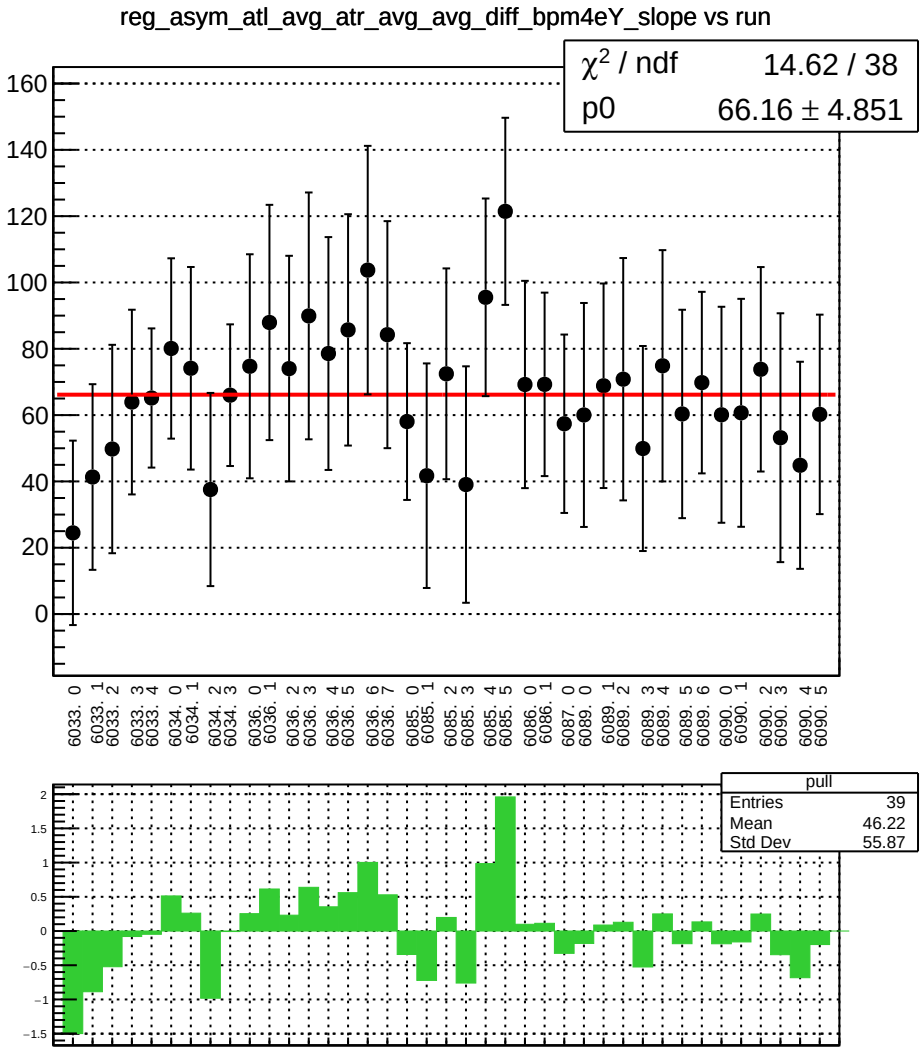

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 27.03 / 38
p0 −11.62 ± 0.1785
pull
Entries 39
Mean 120.8
Std Dev 103.7
pull1D
Entries 39
Mean −0.01777
Std Dev 0.8323

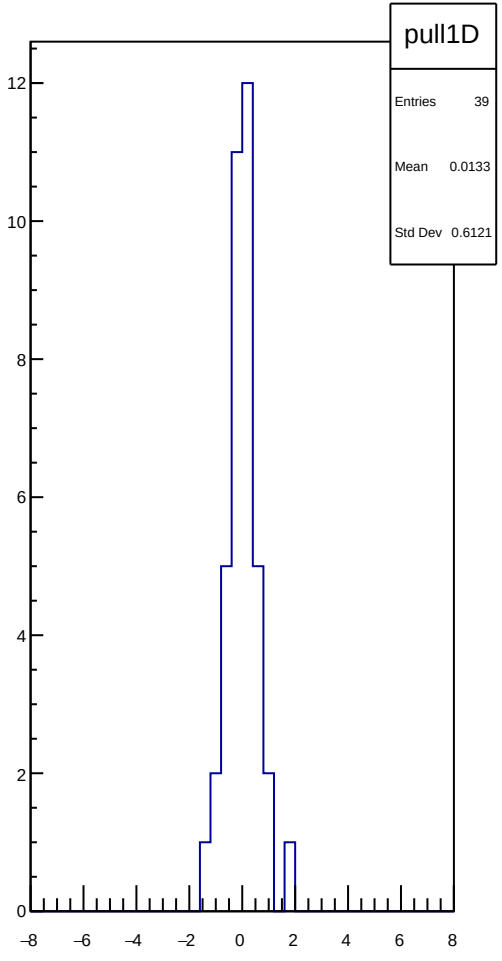

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.34 / 38
p0 −270.7 ± 7.297
−100
−150
−200
−250
−300
−350
−400
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.795
Std Dev 3.05
pull1D
Entries 39
Mean −0.1064
Std Dev 0.9987

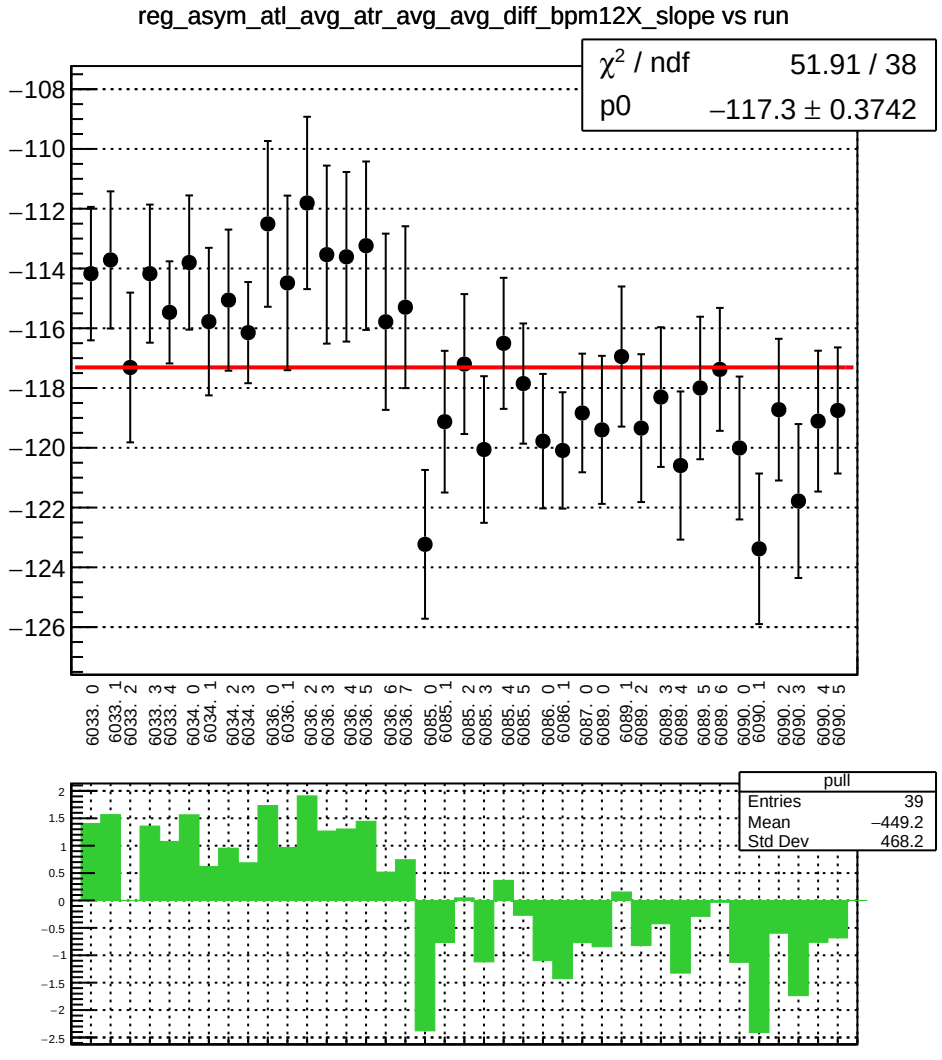

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.82 / 38
p0 −6.605 ± 4.54
pull
Entries 39
Mean −102.6
Std Dev 153.7

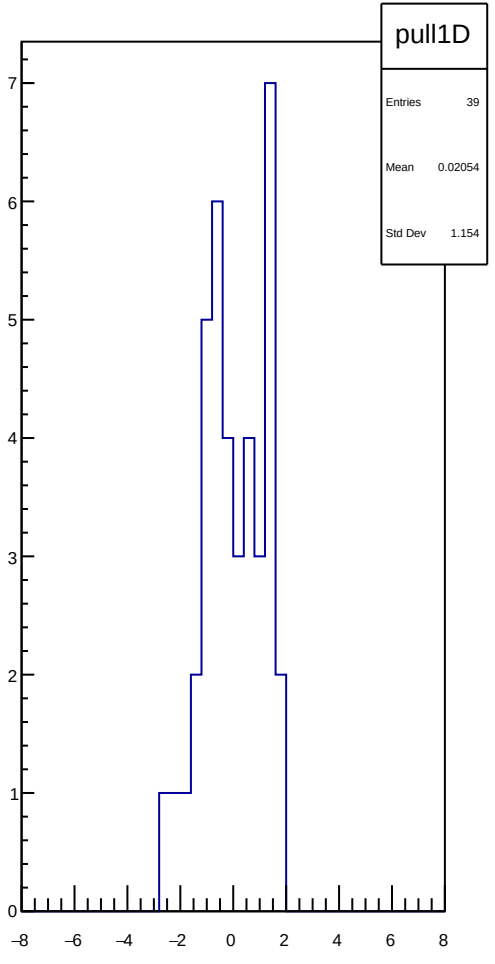

pull1D
Entries 39
Mean −0.002943
Std Dev 0.5506

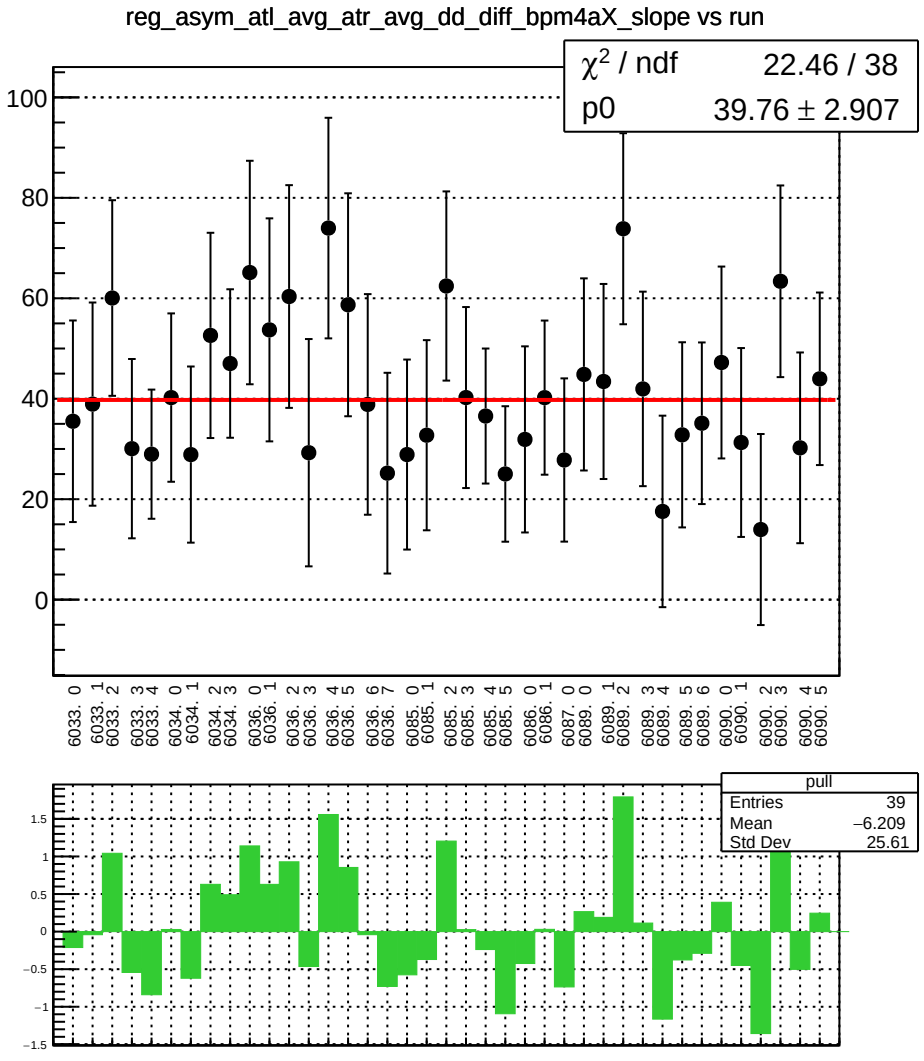

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.27 / 38
p0 333.2 ± 8.181
500
450
400
350
300
250
200
150
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 38.13
Std Dev 12.83
1
0
−1
−2
−3
−4
pull1D
Entries 39
Mean 0.09625
Std Dev 0.9596
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

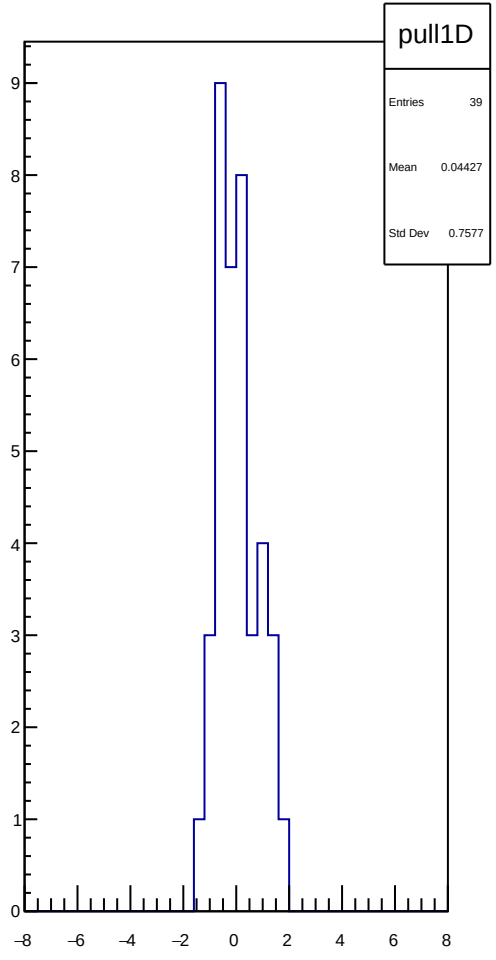

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.62 / 38
p0 66.16 ± 4.851
pull
Entries 39
Mean 46.22
Std Dev 55.87

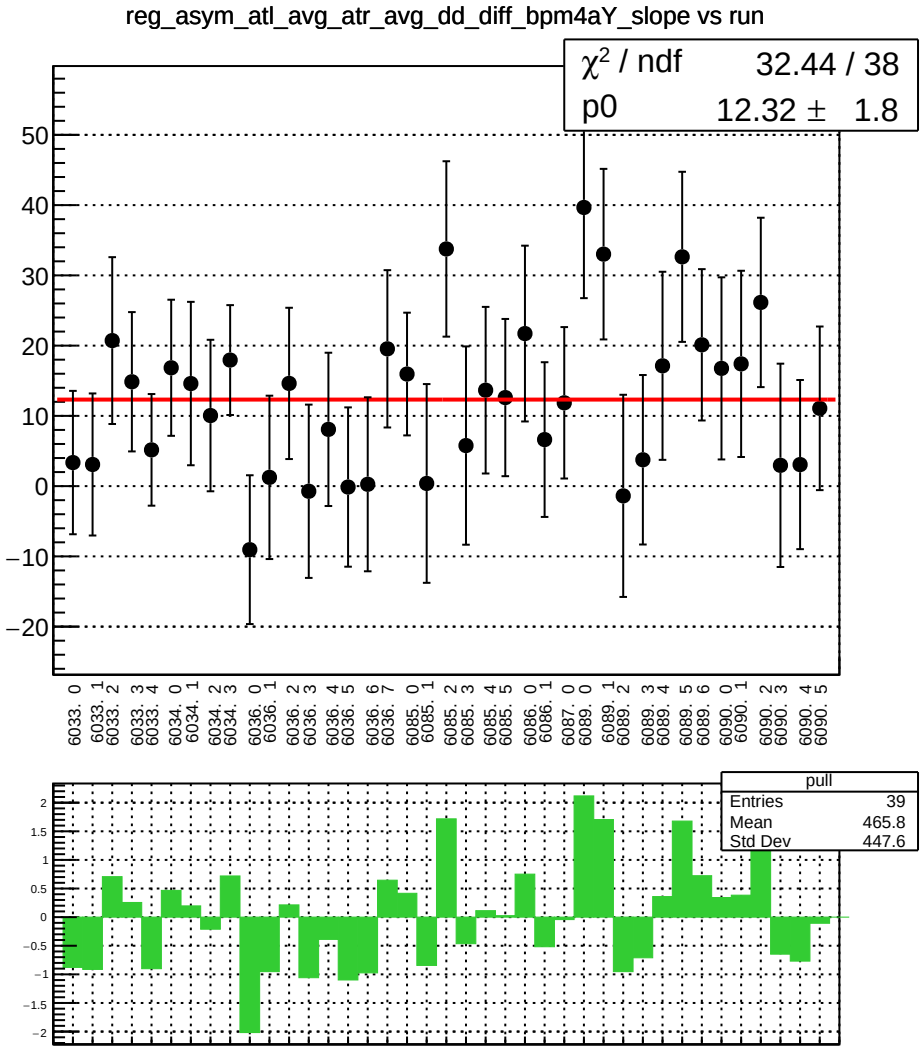

pull1D
Entries 39
Mean 0.0133
Std Dev 0.6121

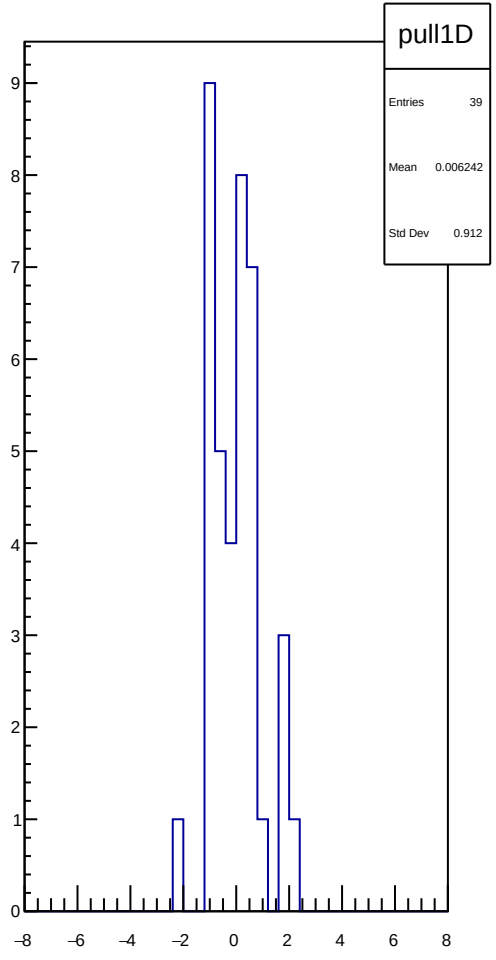

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 51.91 / 38
p0 −117.3 ± 0.3742
pull
Entries 39
Mean −449.2
Std Dev 468.2

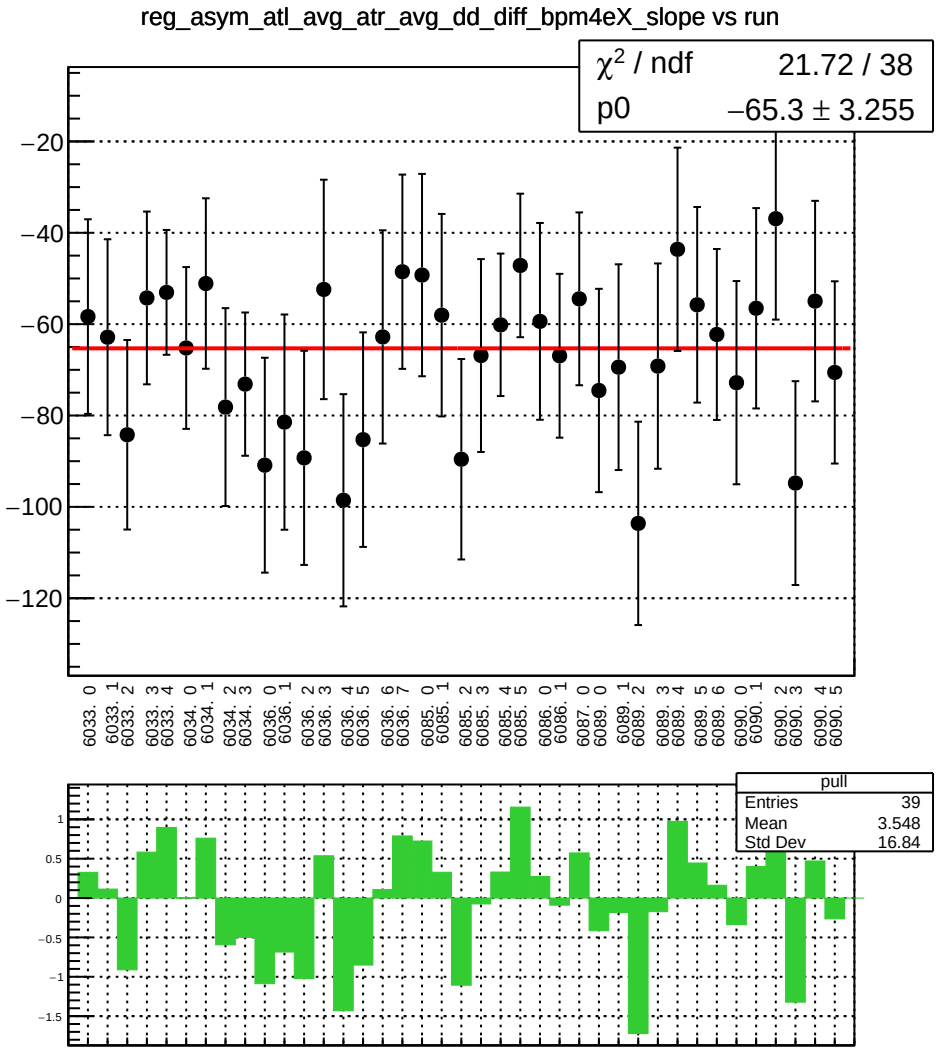

pull1D
Entries 39
Mean 0.02054
Std Dev 1.154

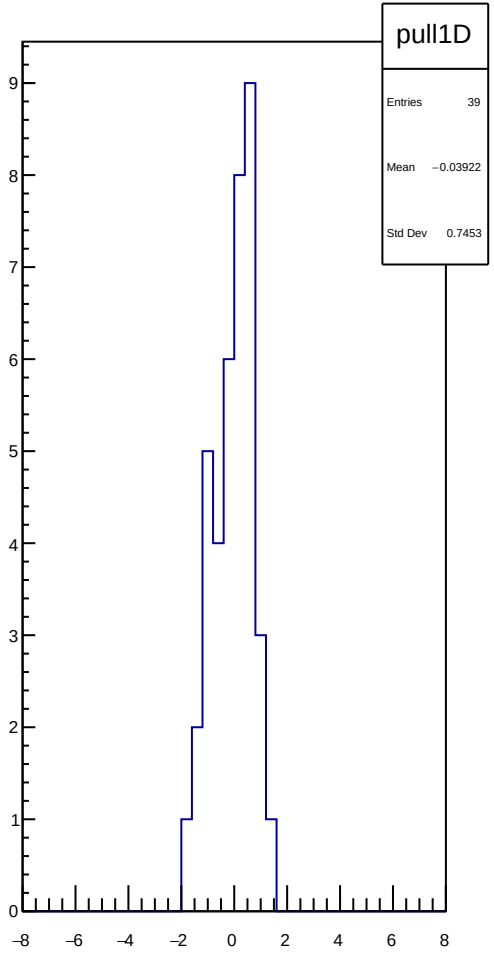

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.46 / 38
p0 39.76 ± 2.907
pull
Entries 39
Mean −6.209
Std Dev 25.61

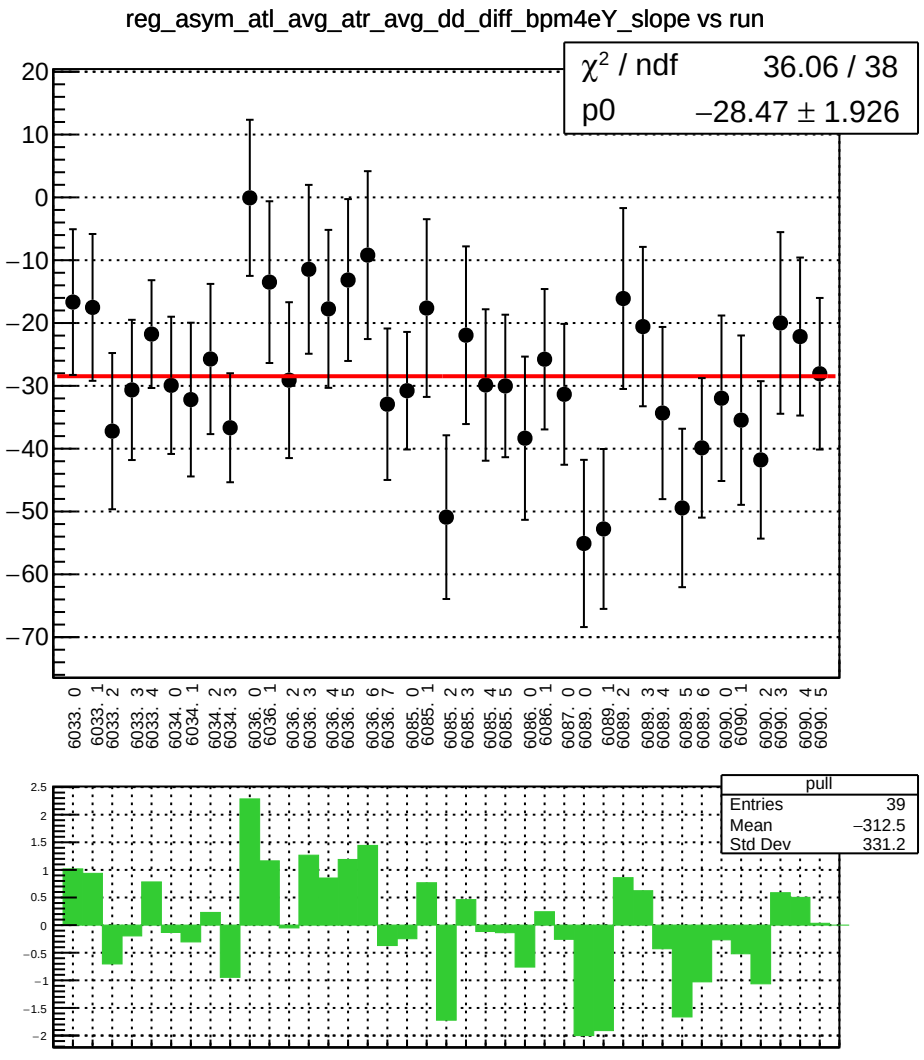

pull1D
Entries 39
Mean 0.04427
Std Dev 0.7577

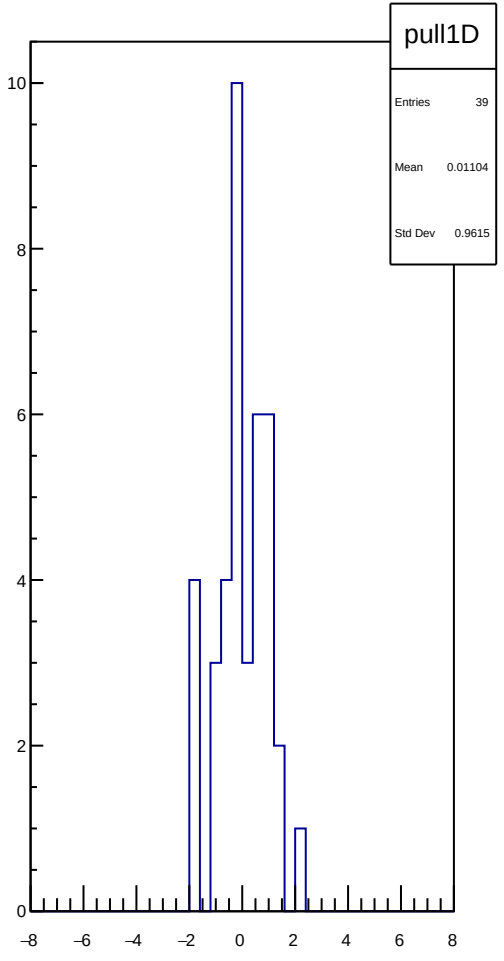

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.44 / 38
p0 12.32 ± 1.8
pull
Entries 39
Mean 465.8
Std Dev 447.6

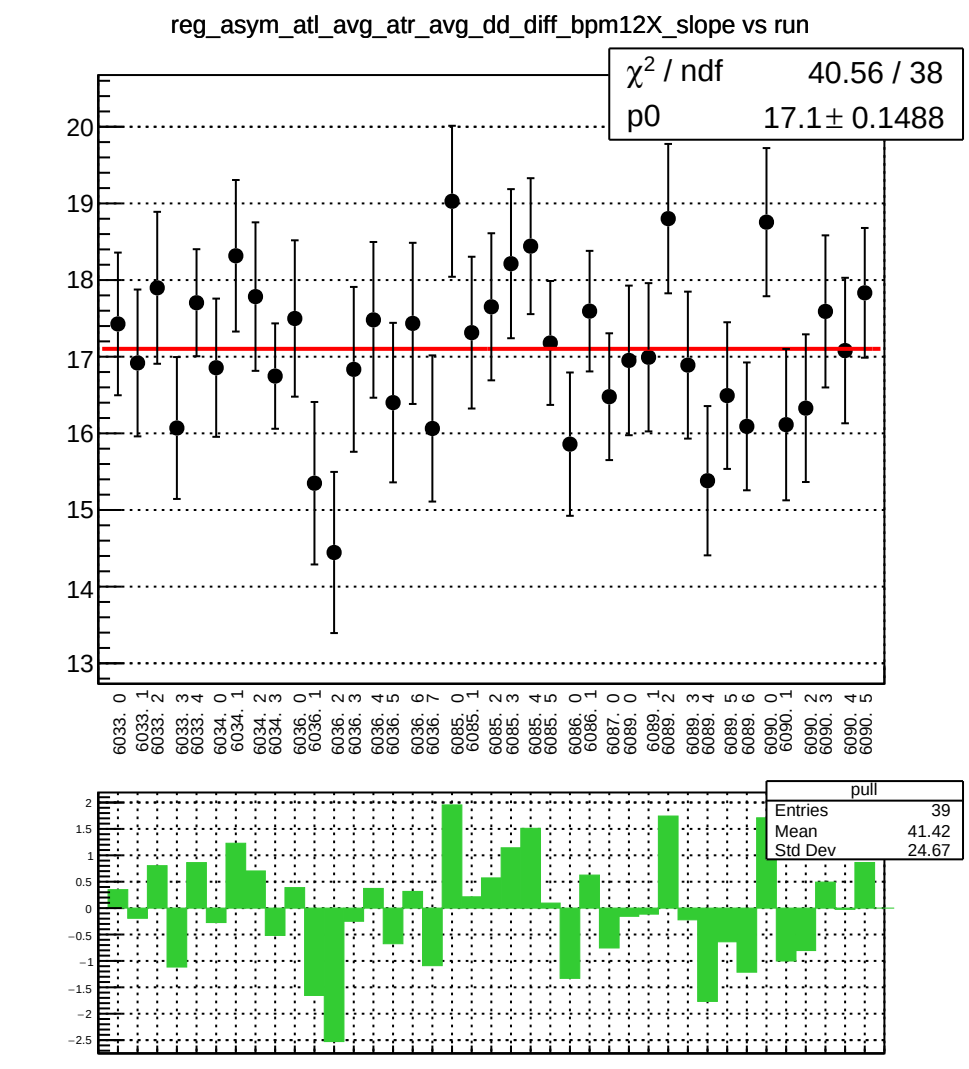

pull1D
Entries 39
Mean 0.006242
Std Dev 0.912

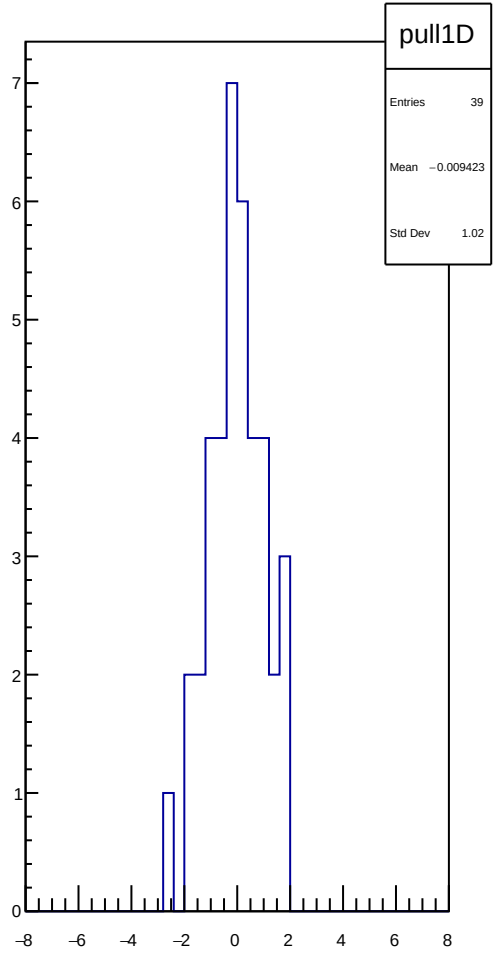

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.72 / 38
p0 −65.3 ± 3.255
−20
−40
−60
−80
−100
−120
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 3.548
Std Dev 16.84
1
0.5
0
−0.5
−1
−1.5

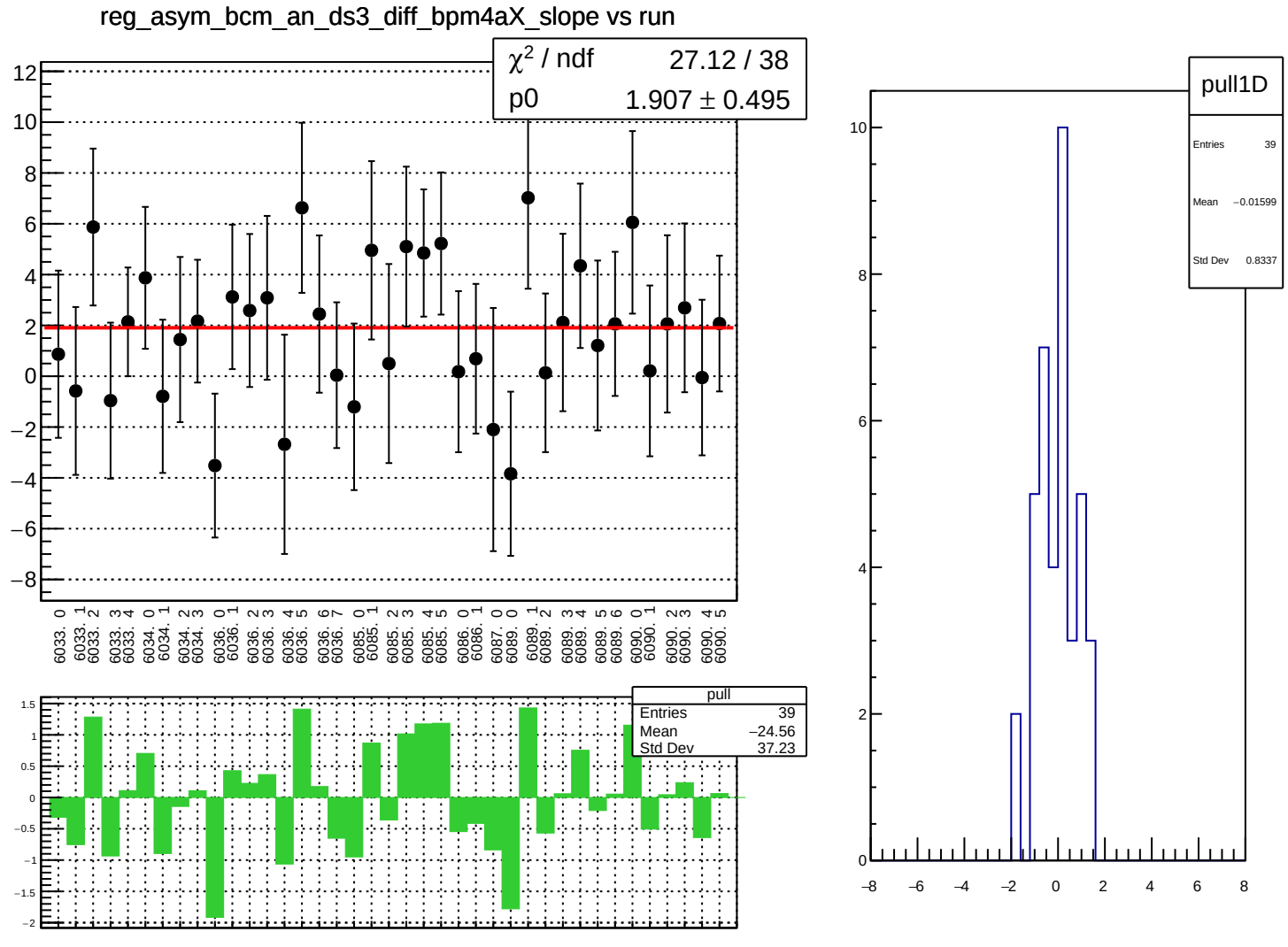

pull1D
Entries 39
Mean −0.03922
Std Dev 0.7453
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

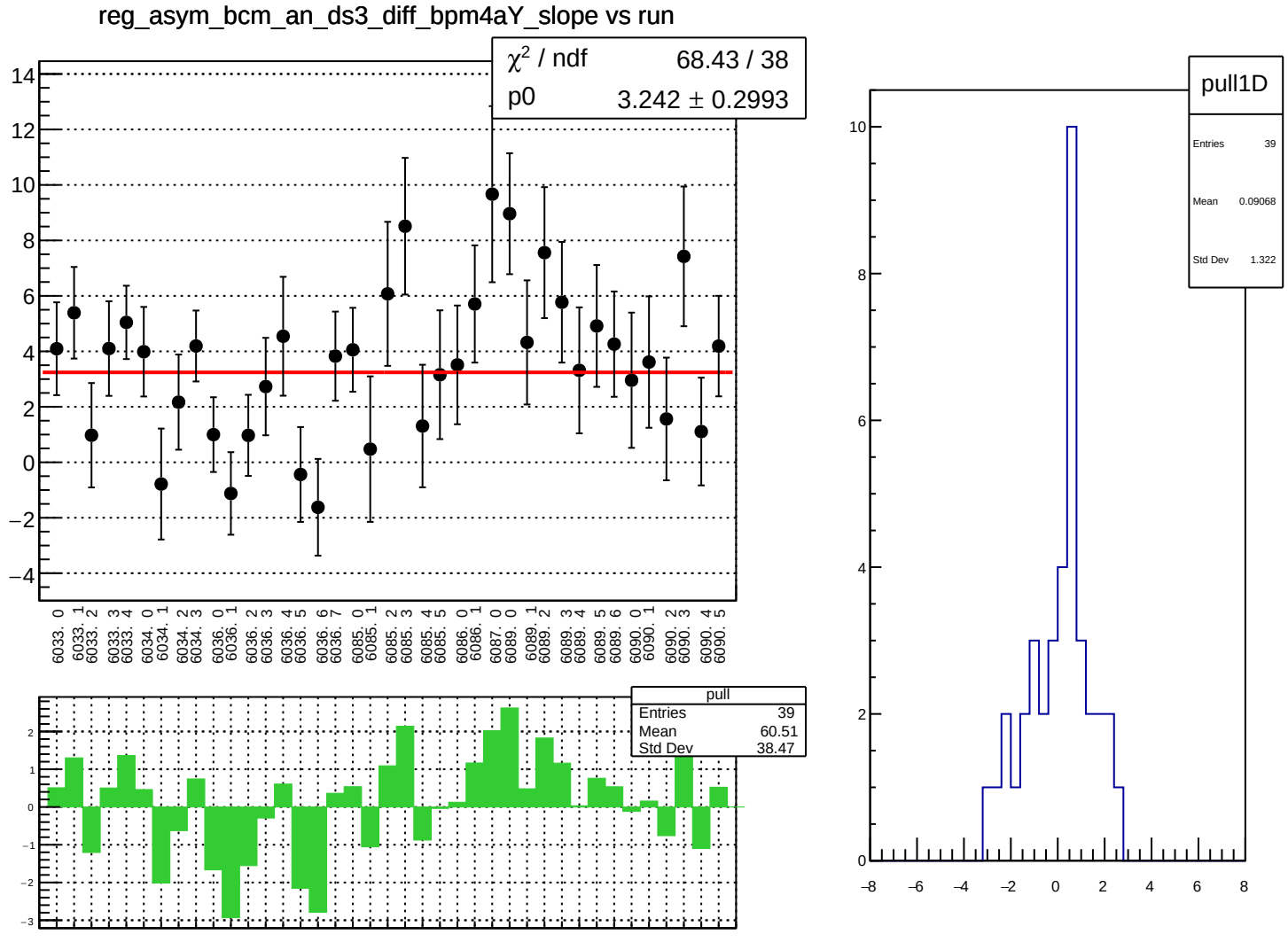

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.06 / 38
p0 −28.47 ± 1.926
pull
Entries 39
Mean −312.5
Std Dev 331.2

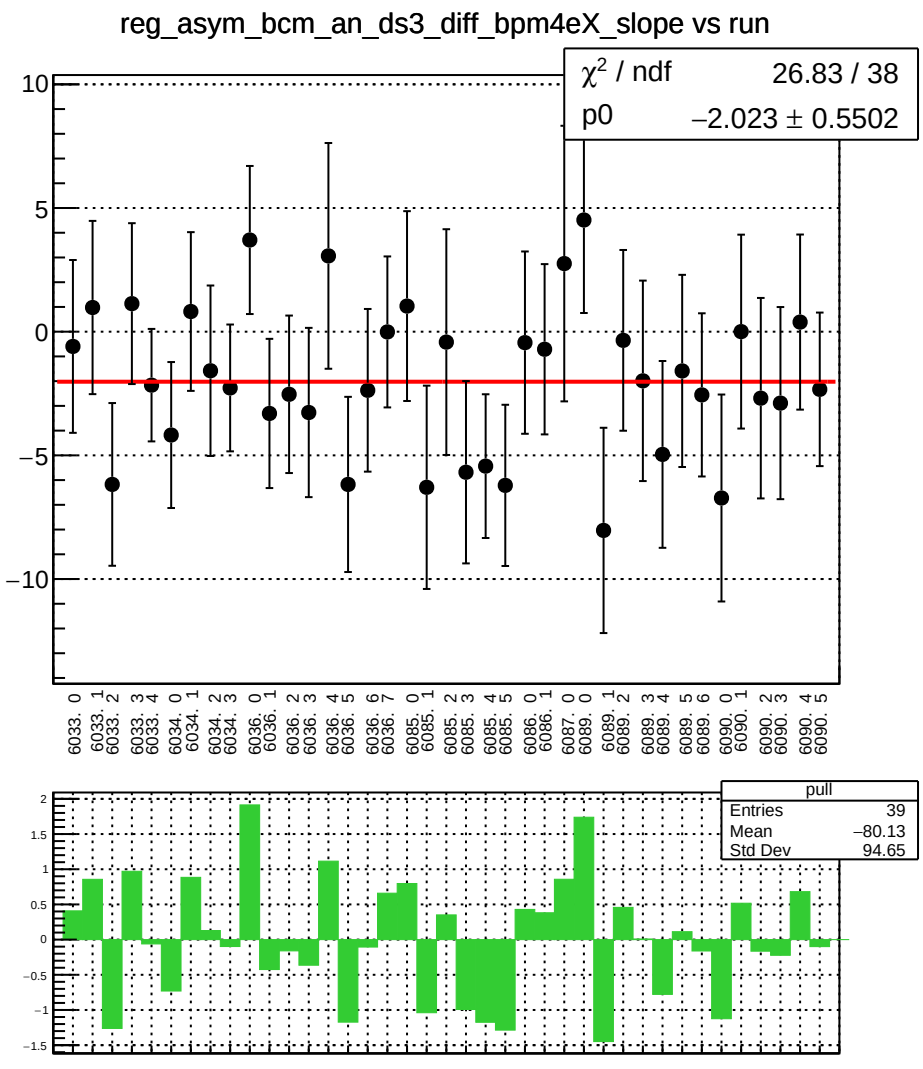

pull1D
Entries 39
Mean 0.01104
Std Dev 0.9615

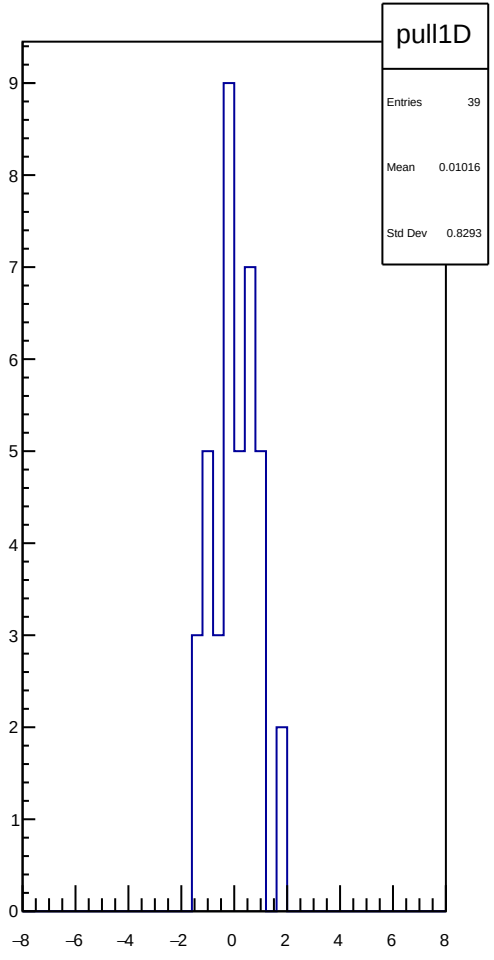

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.56 / 38
p0 17.1 ± 0.1488
pull
Entries 39
Mean 41.42
Std Dev 24.67

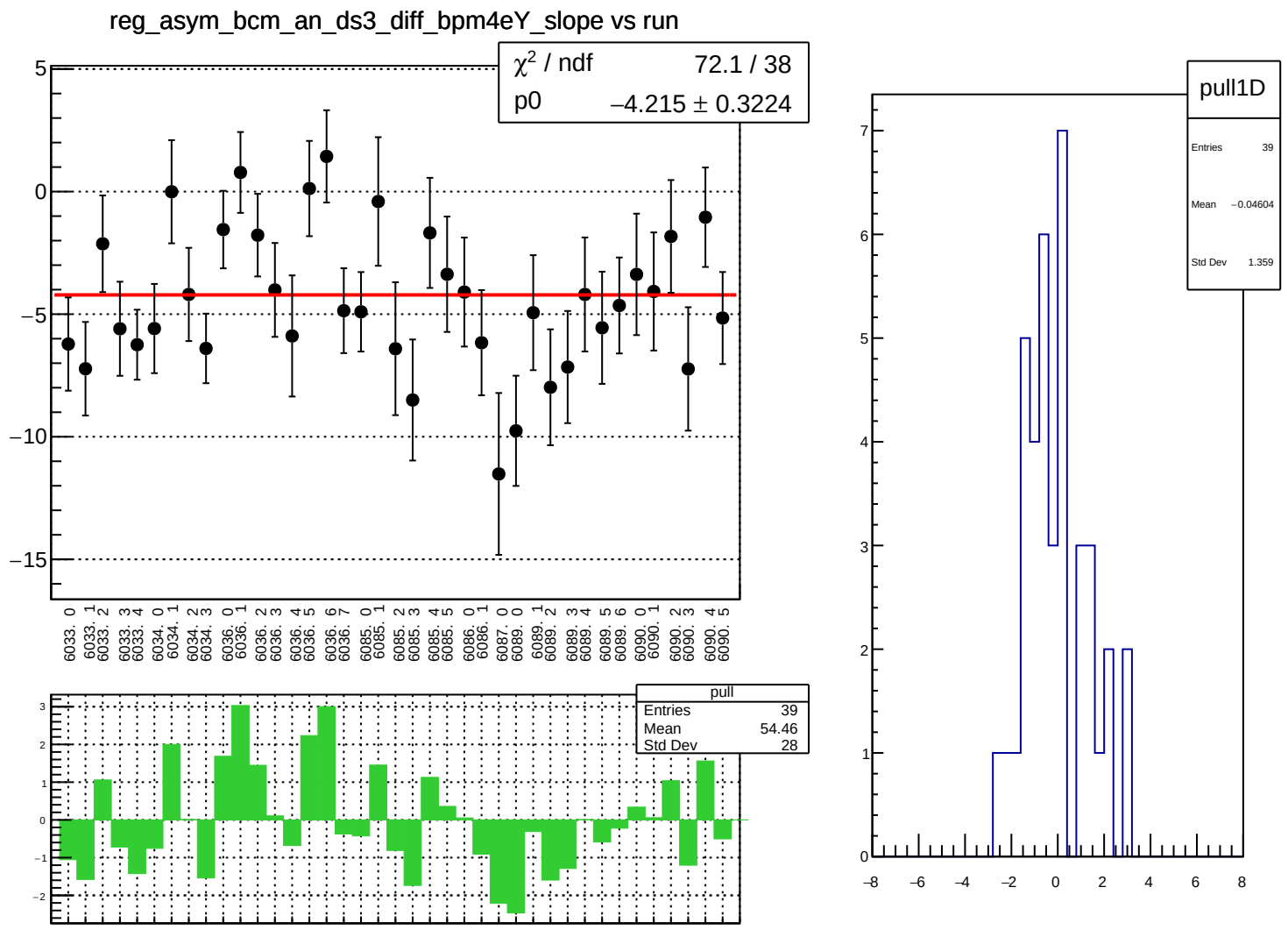

pull1D
Entries 39
Mean −0.009423
Std Dev 1.02

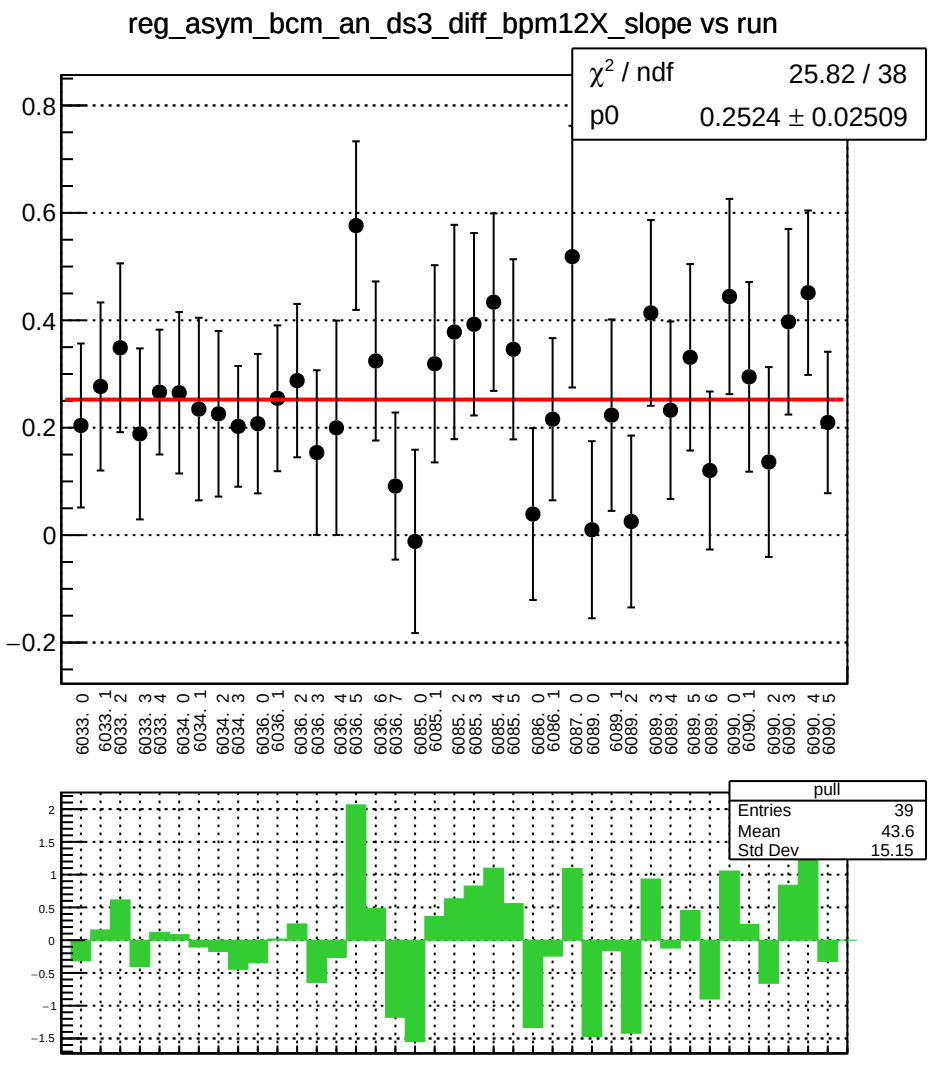

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 27.12 / 38
p0 1.907 ± 0.495
pull
Entries 39
Mean −24.56
Std Dev 37.23
pull1D
Entries 39
Mean −0.01599
Std Dev 0.8337

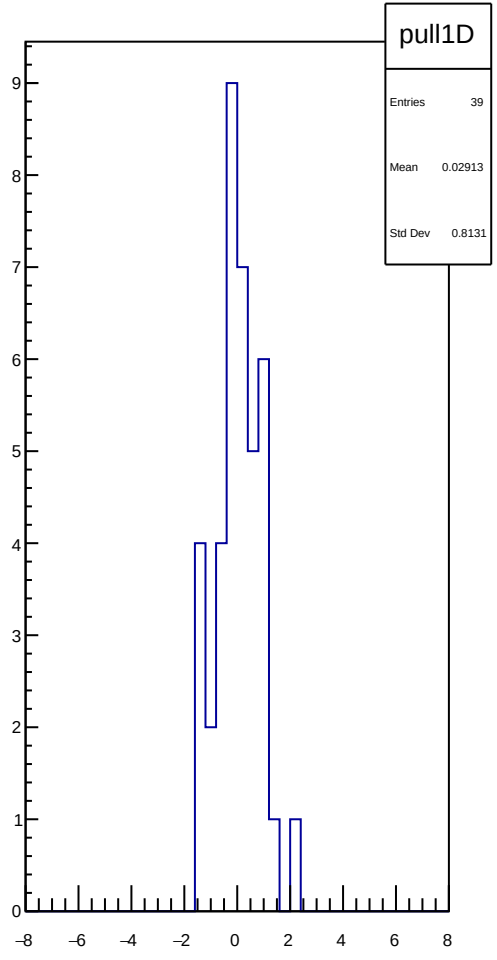

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 68.43 / 38
p0 3.242 ± 0.2993
pull
Entries 39
Mean 60.51
Std Dev 38.47
pull1D
Entries 39
Mean 0.09068
Std Dev 1.322

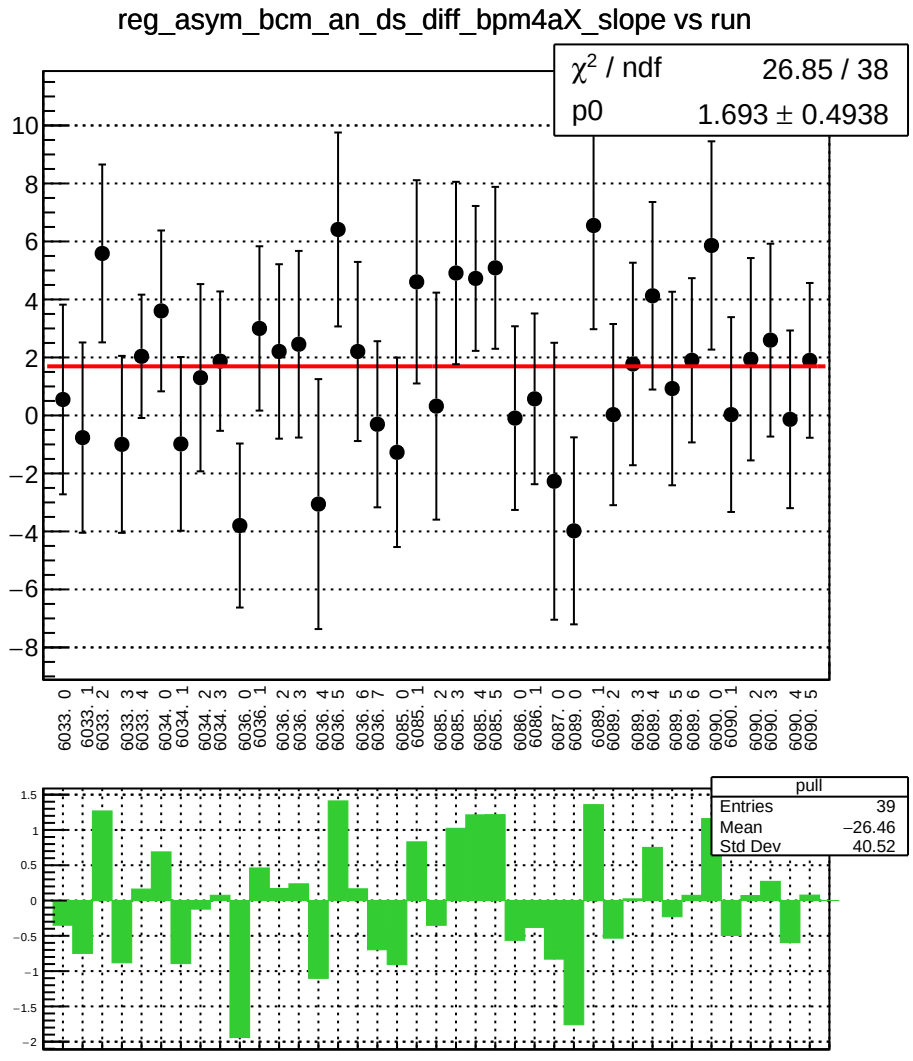

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 26.83 / 38
p0 −2.023 ± 0.5502
pull
Entries 39
Mean −80.13
Std Dev 94.65

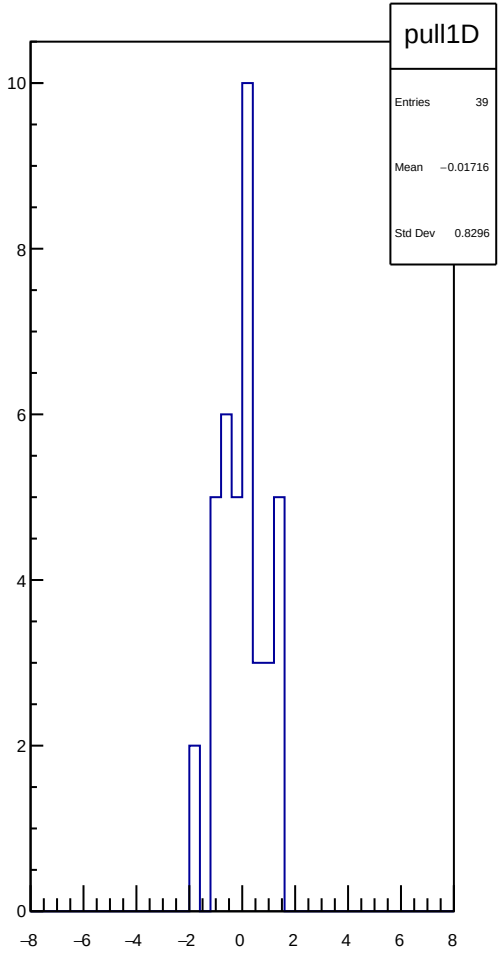

pull1D
Entries 39
Mean 0.01016
Std Dev 0.8293

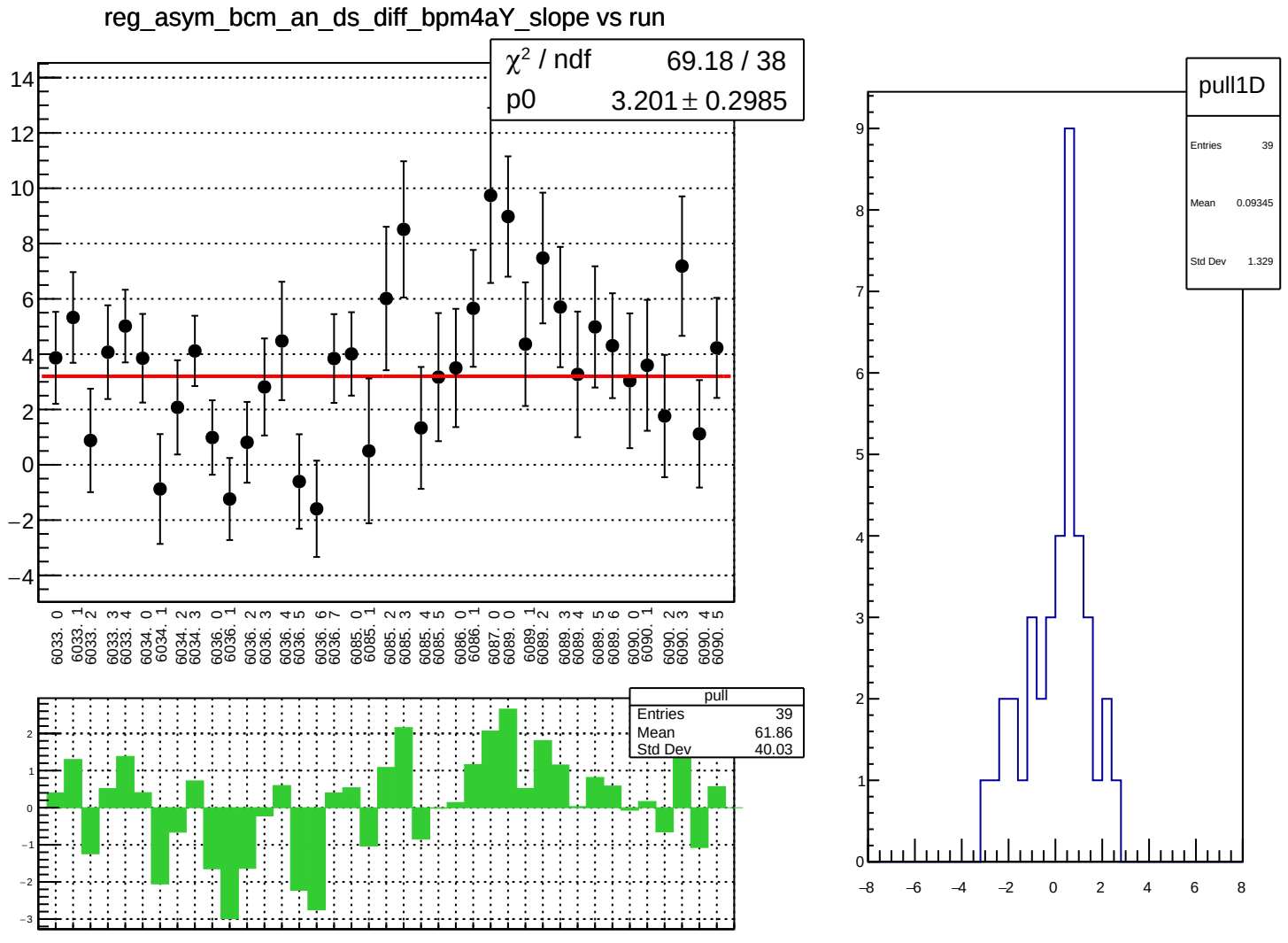

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 72.1 / 38
p0 −4.215 ± 0.3224
pull
Entries 39
Mean 54.46
Std Dev 28
pull1D
Entries 39
Mean −0.04604
Std Dev 1.359

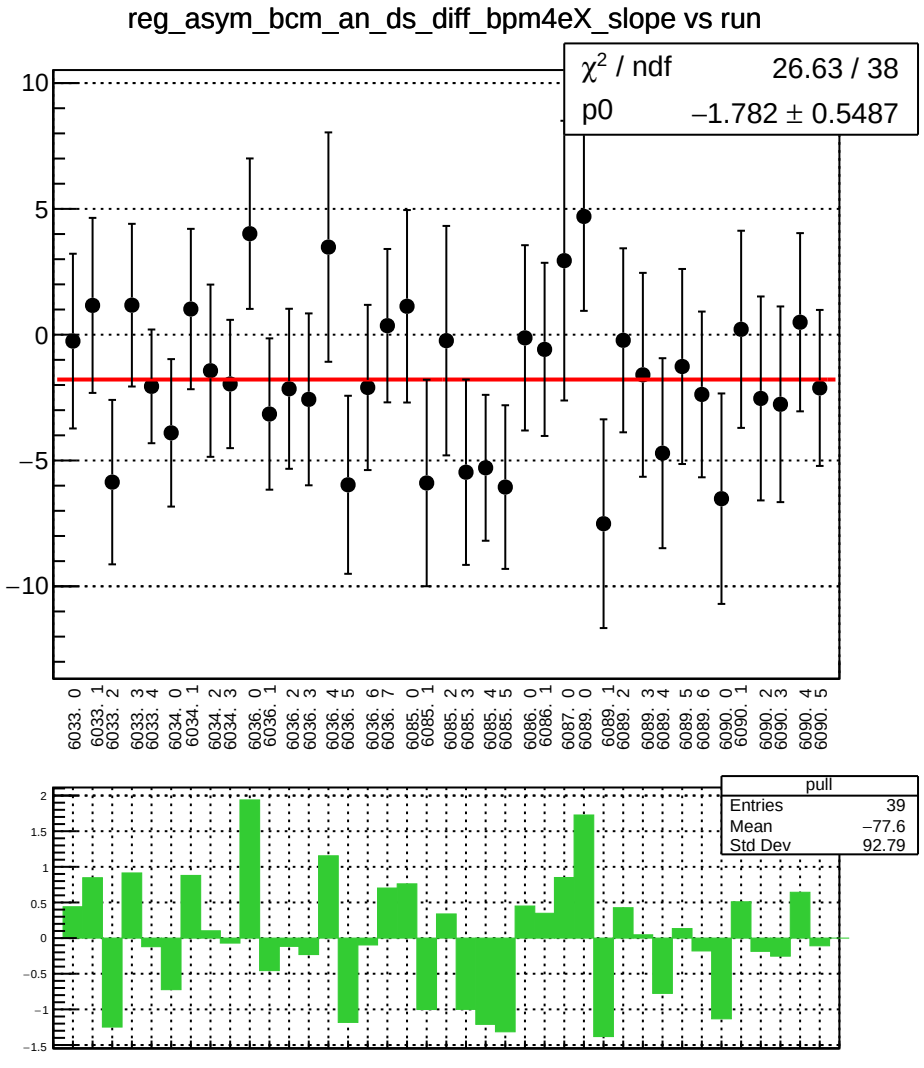

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 25.82 / 38
p0 0.2524 ± 0.02509
pull
Entries 39
Mean 43.6
Std Dev 15.15

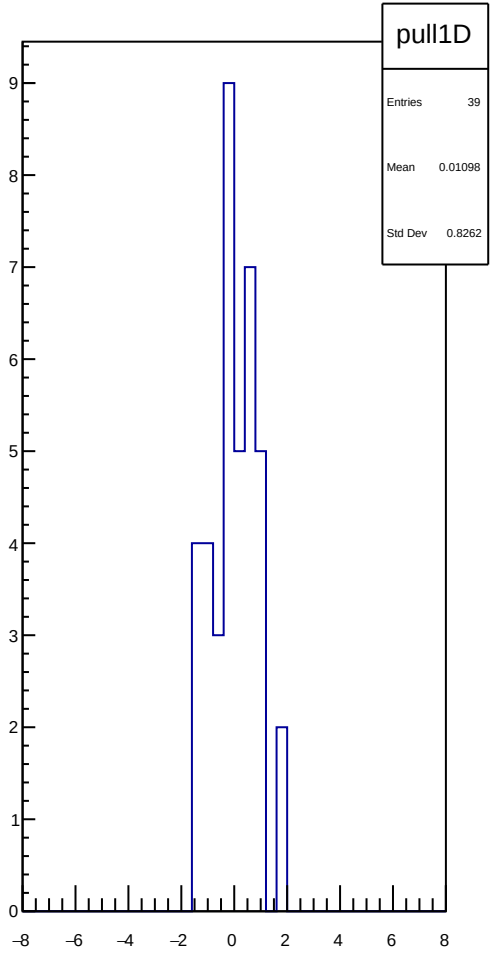

pull1D
Entries 39
Mean 0.02913
Std Dev 0.8131

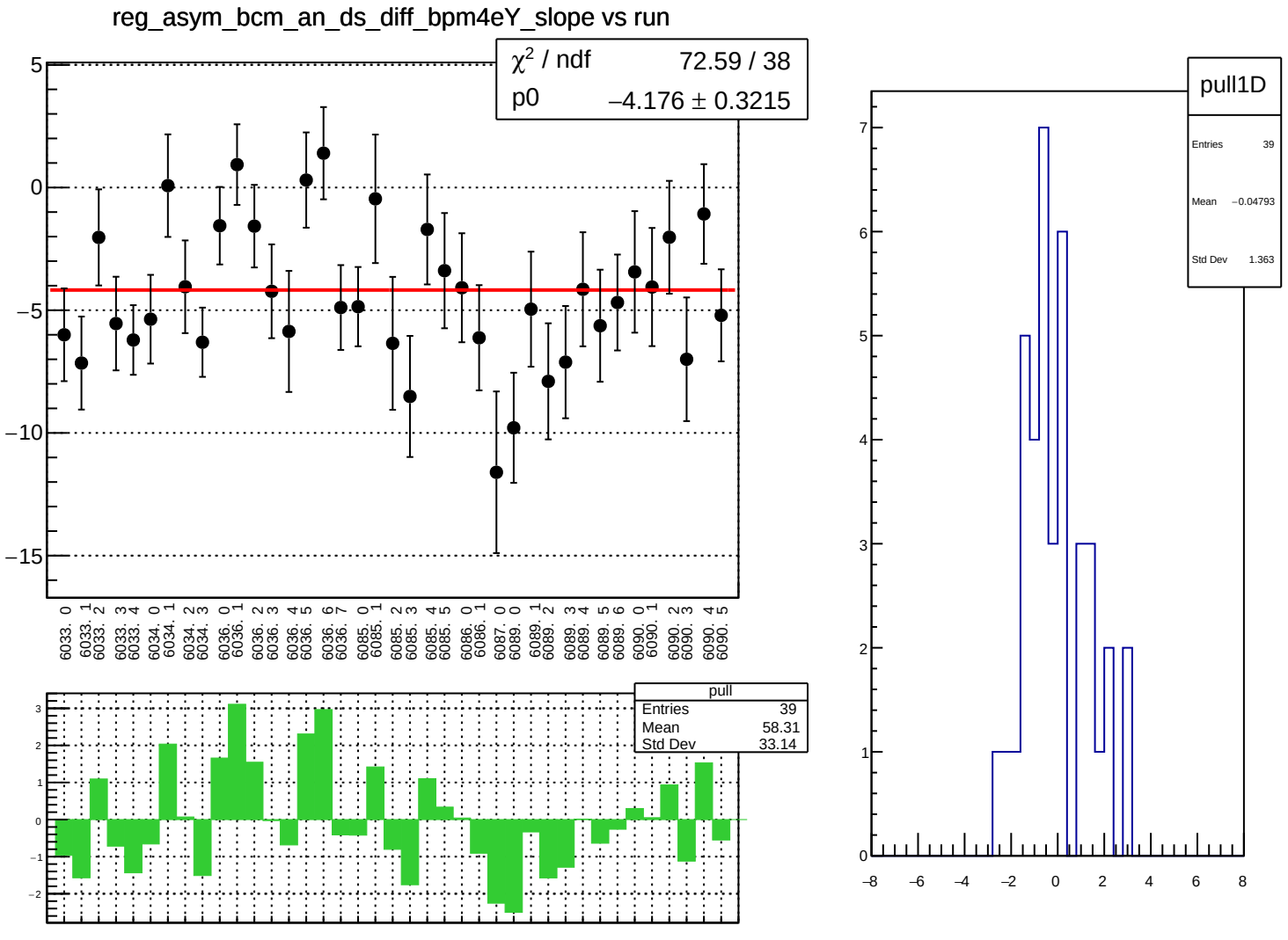

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 26.85 / 38
p0 1.693 ± 0.4938
pull
Entries 39
Mean −26.46
Std Dev 40.52

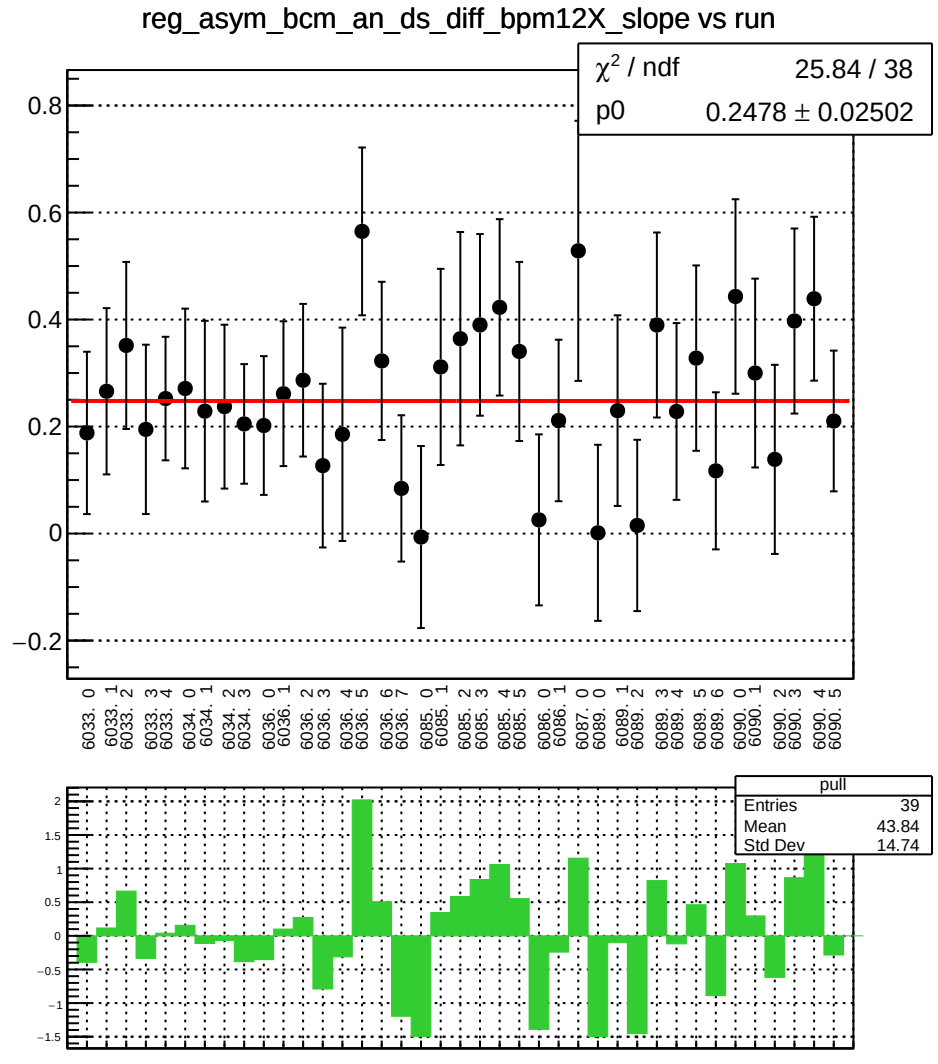

pull1D
Entries 39
Mean −0.01716
Std Dev 0.8296

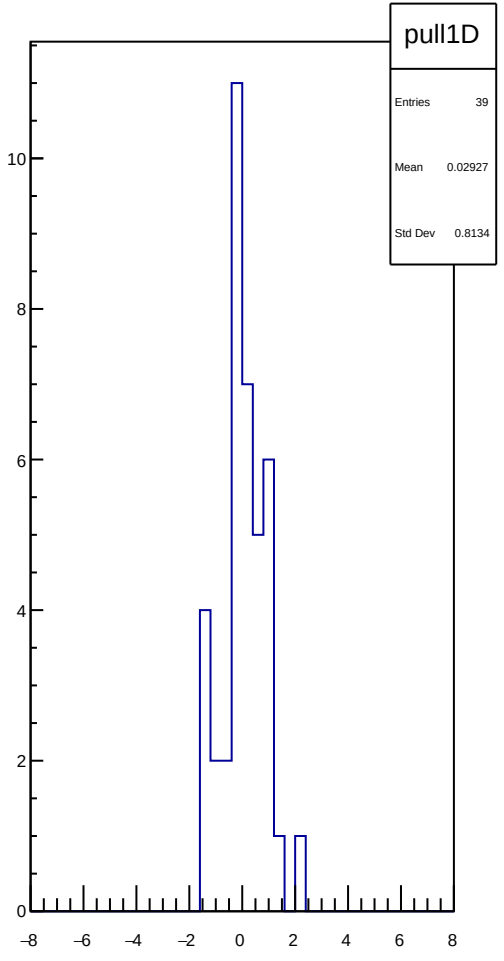

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 69.18 / 38
p0 3.201 ± 0.2985
pull
Entries 39
Mean 61.86
Std Dev 40.03
pull1D
Entries 39
Mean 0.09345
Std Dev 1.329

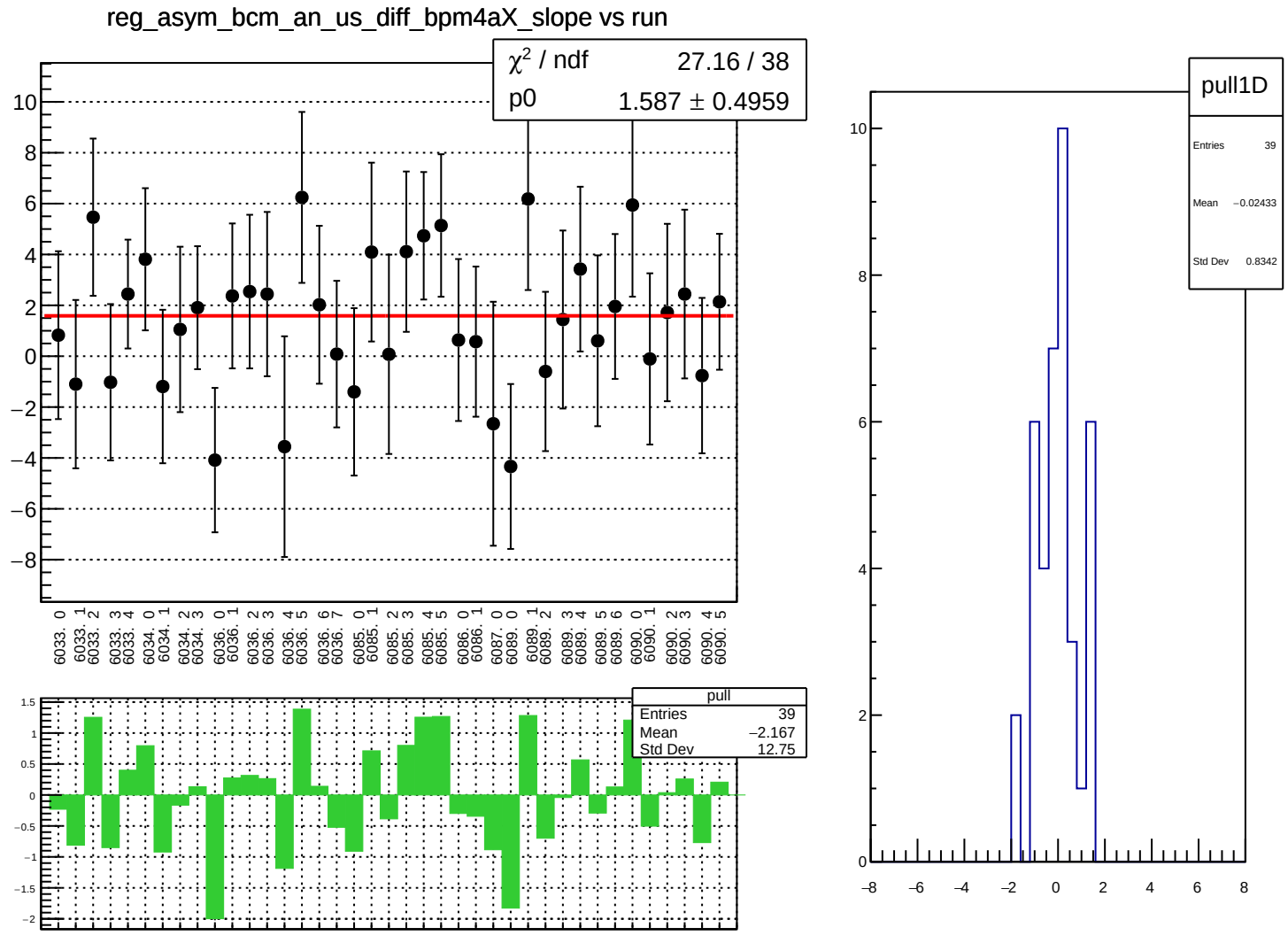

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 26.63 / 38
p0 −1.782 ± 0.5487
10
5
0
−5
−10
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −77.6
Std Dev 92.79
2
1.5
1
0.5
0
−0.5
−1
−1.5

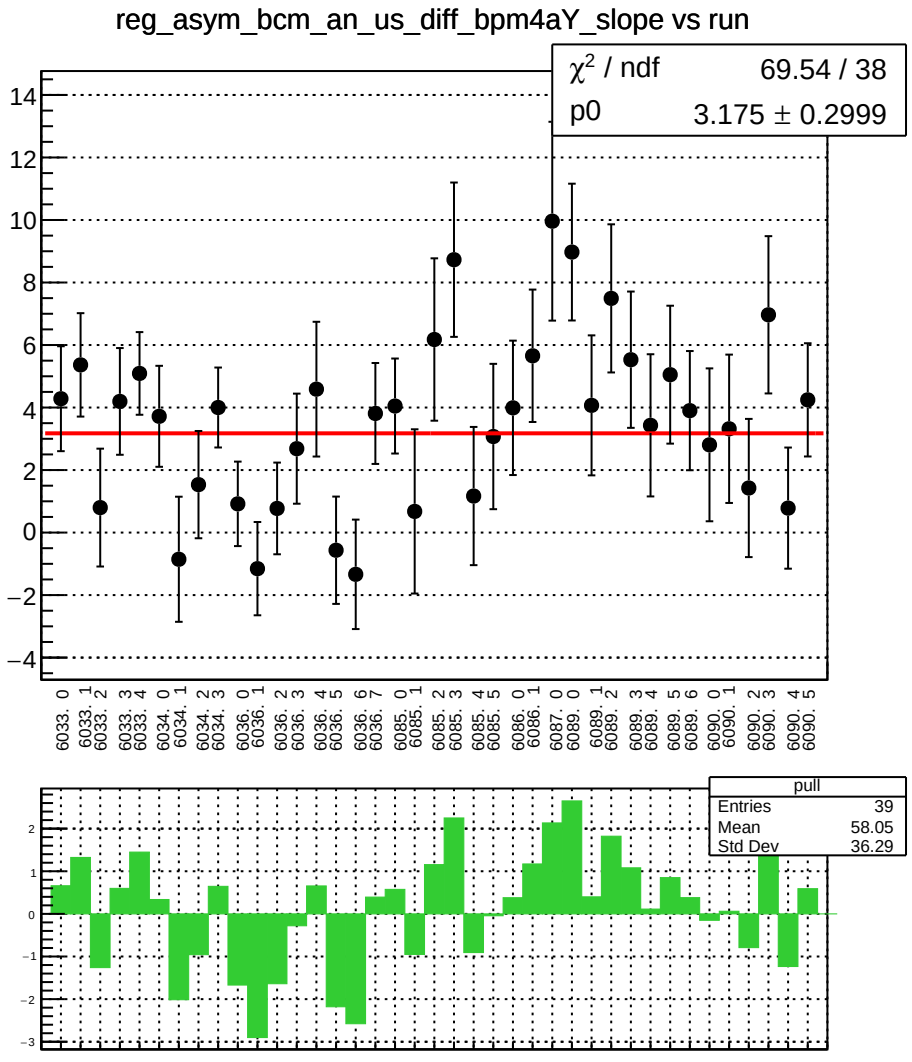

pull1D
Entries 39
Mean 0.01098
Std Dev 0.8262
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

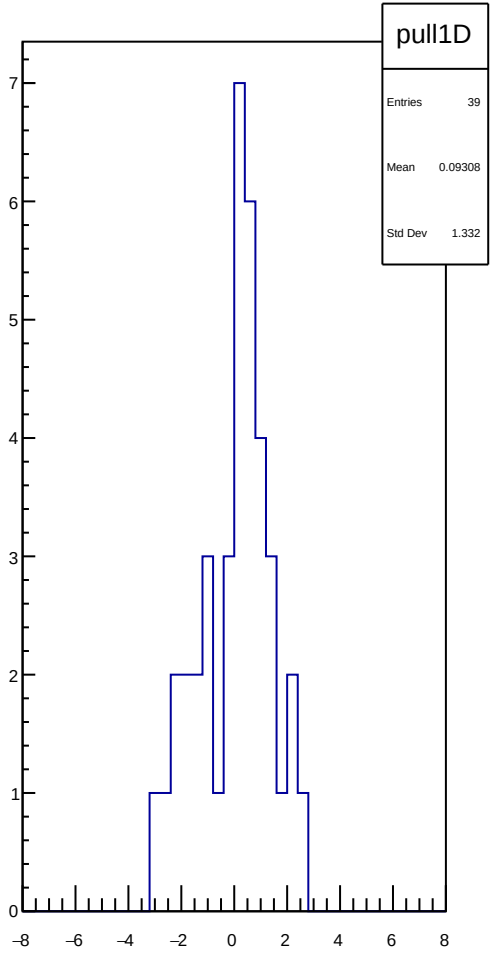

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 72.59 / 38
p0 −4.176 ± 0.3215
5
0
−5
−10
−15
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean 58.31
Std Dev 33.14
3
2
1
0
−1
−2
pull1D
Entries 39
Mean −0.04793
Std Dev 1.363
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

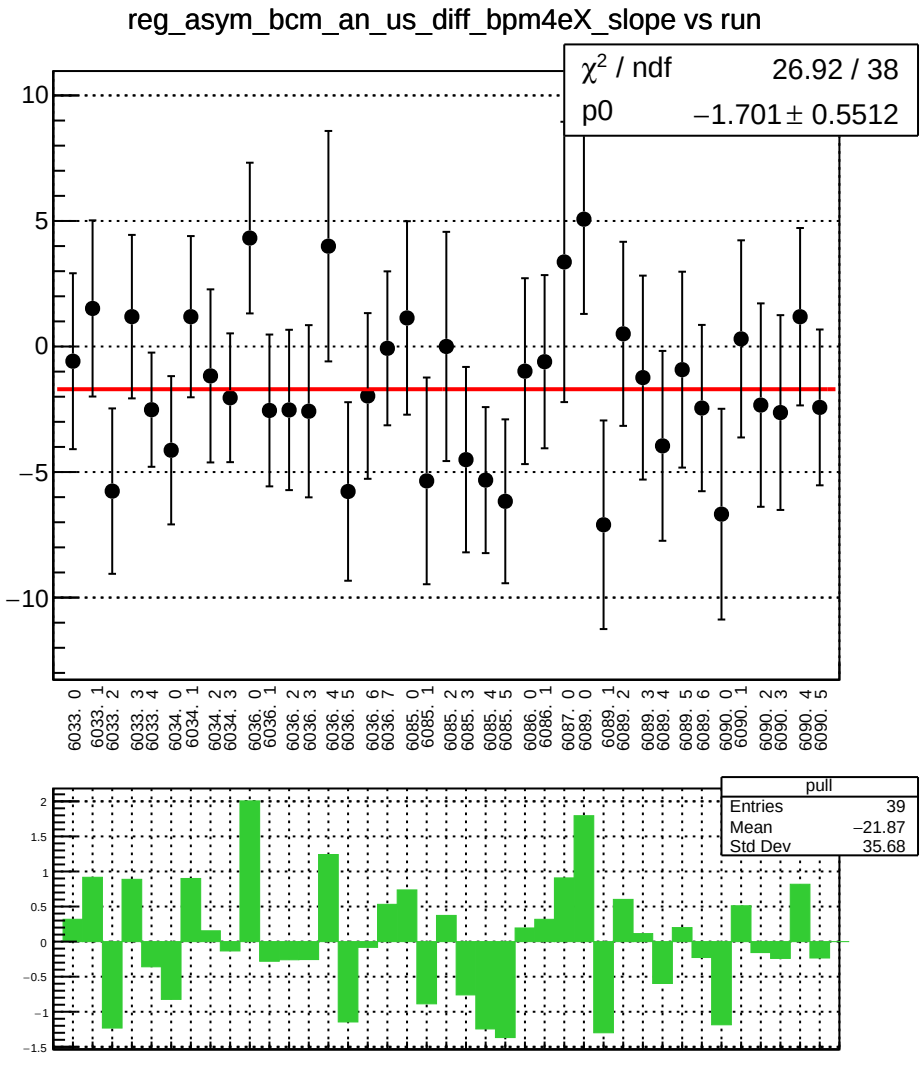

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 25.84 / 38
p0 0.2478 ± 0.02502
pull
Entries 39
Mean 43.84
Std Dev 14.74

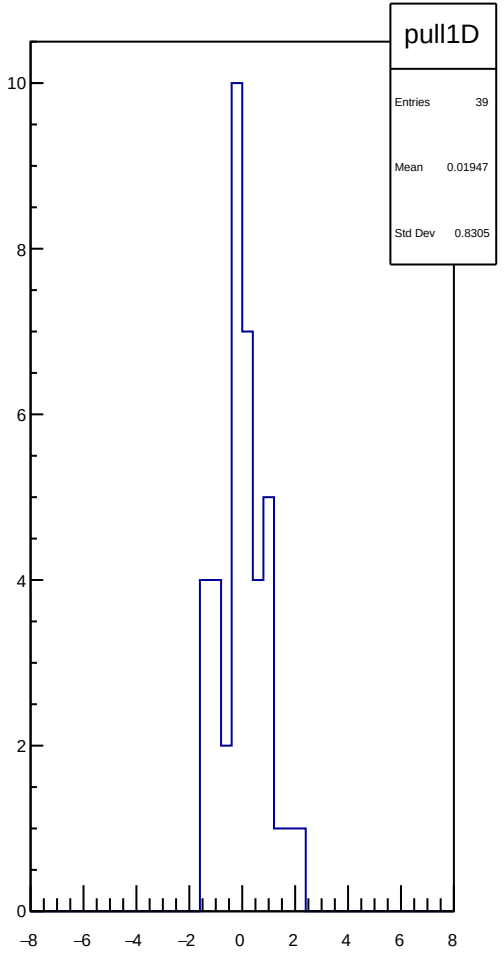

pull1D
Entries 39
Mean 0.02927
Std Dev 0.8134

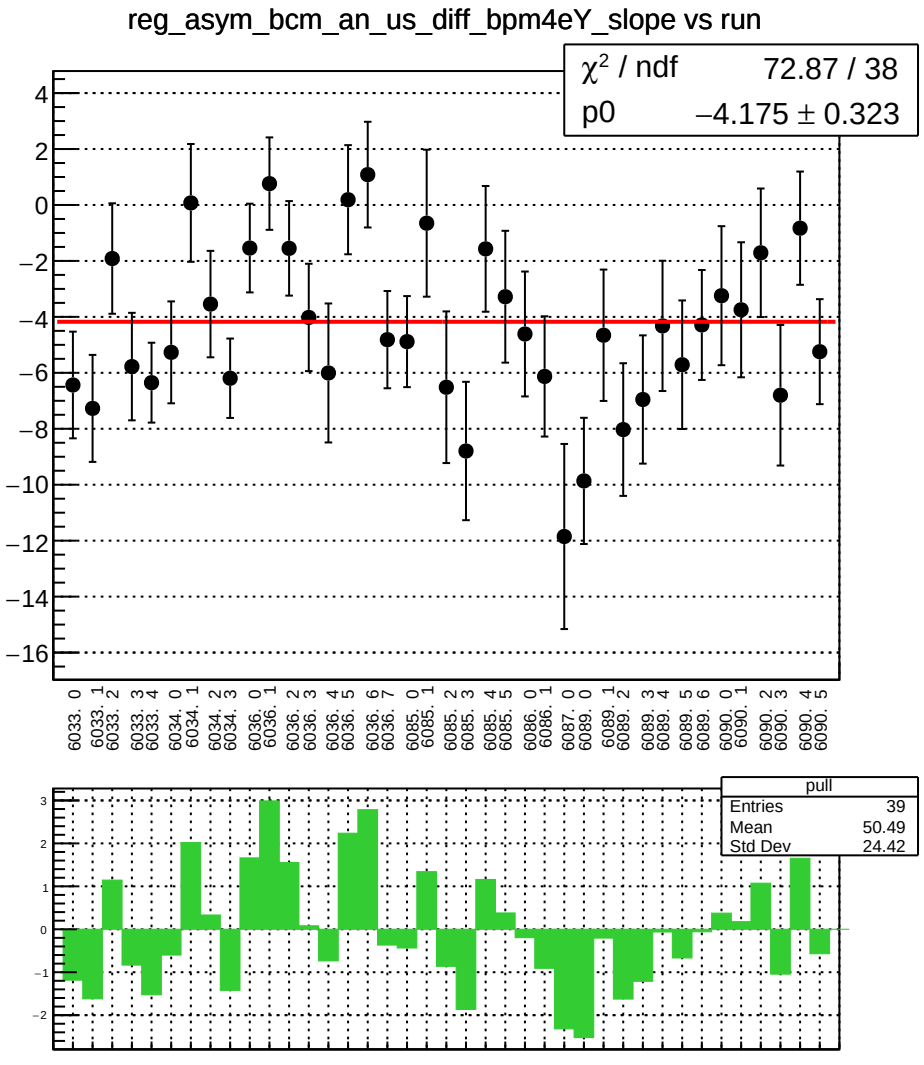

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 27.16 / 38
p0 1.587 ± 0.4959
pull
Entries 39
Mean −2.167
Std Dev 12.75
pull1D
Entries 39
Mean −0.02433
Std Dev 0.8342

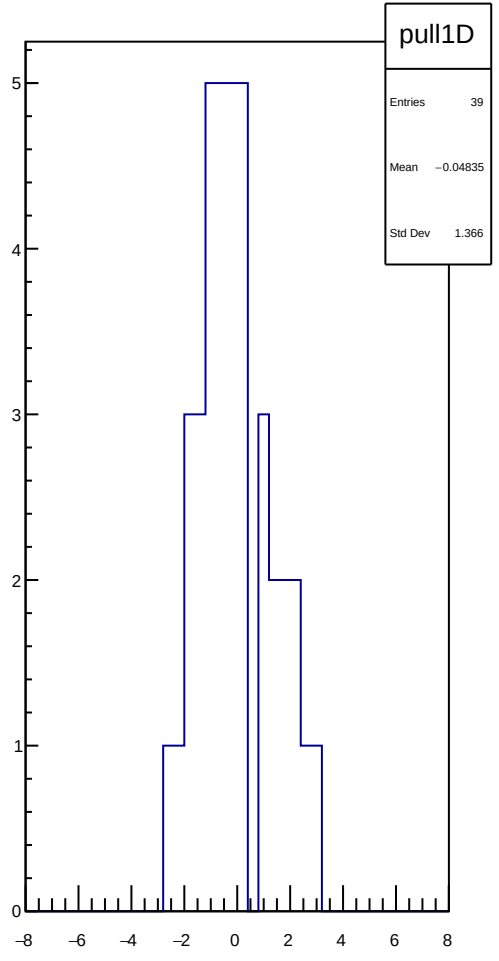

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 69.54 / 38
p0 3.175 ± 0.2999
pull
Entries 39
Mean 58.05
Std Dev 36.29

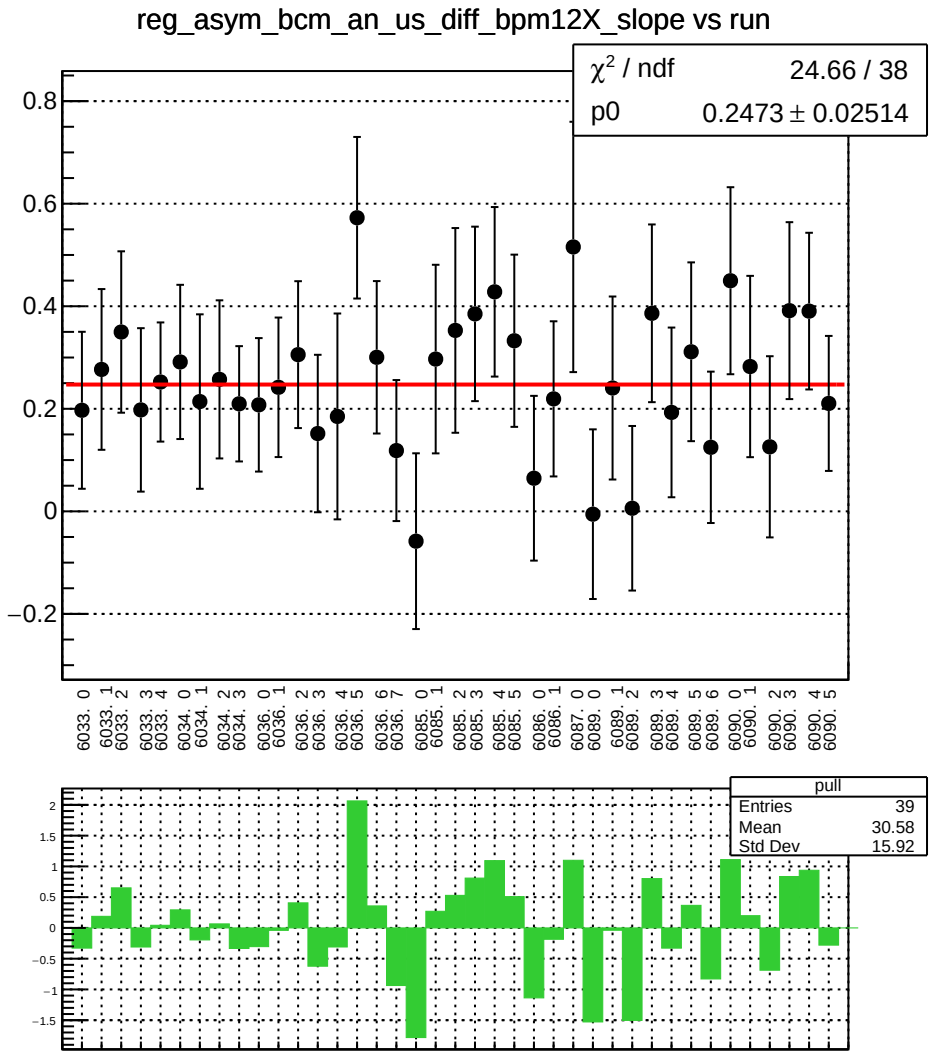

pull1D
Entries 39
Mean 0.09308
Std Dev 1.332

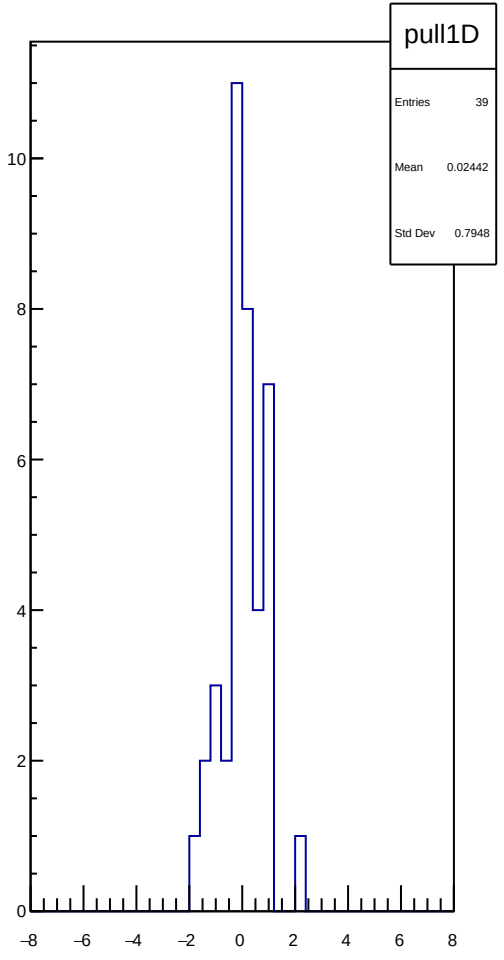

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 26.92 / 38
p0 −1.701 ± 0.5512
pull
Entries 39
Mean −21.87
Std Dev 35.68

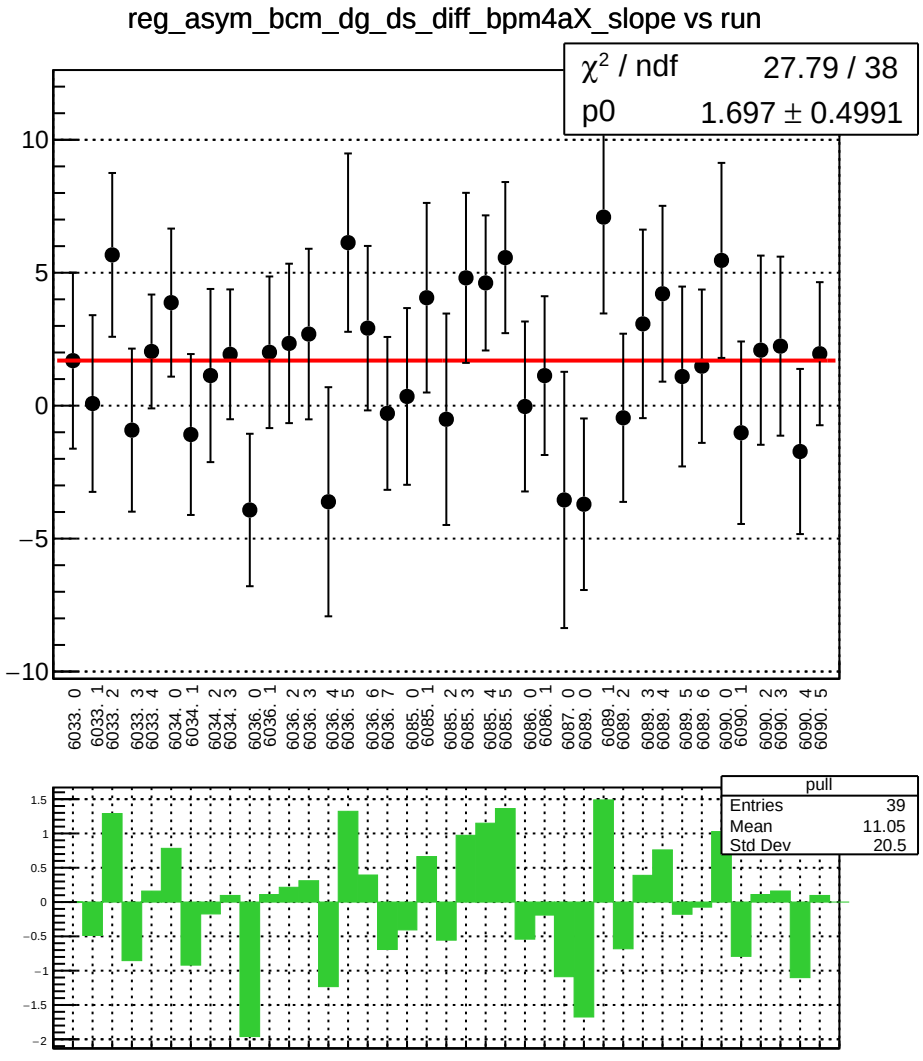

pull1D
Entries 39
Mean 0.01947
Std Dev 0.8305

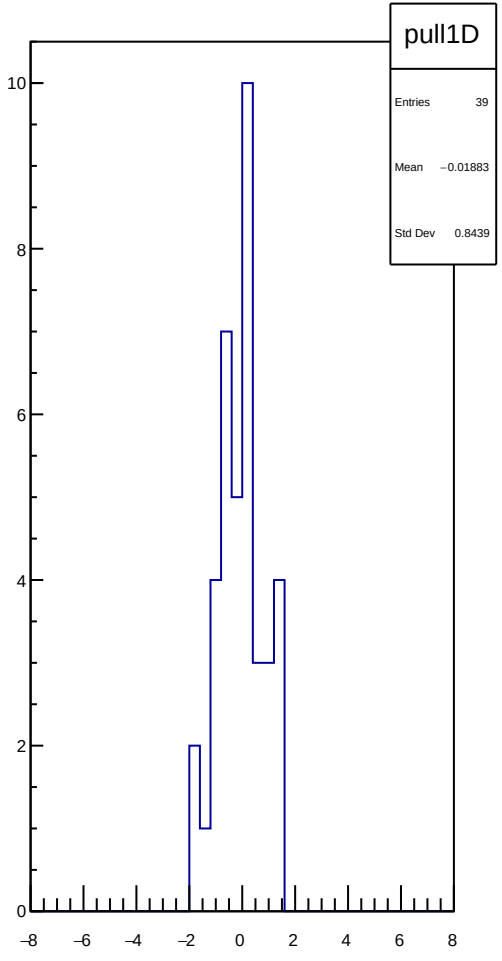

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 72.87 / 38
p0 −4.175 ± 0.323
pull
Entries 39
Mean 50.49
Std Dev 24.42

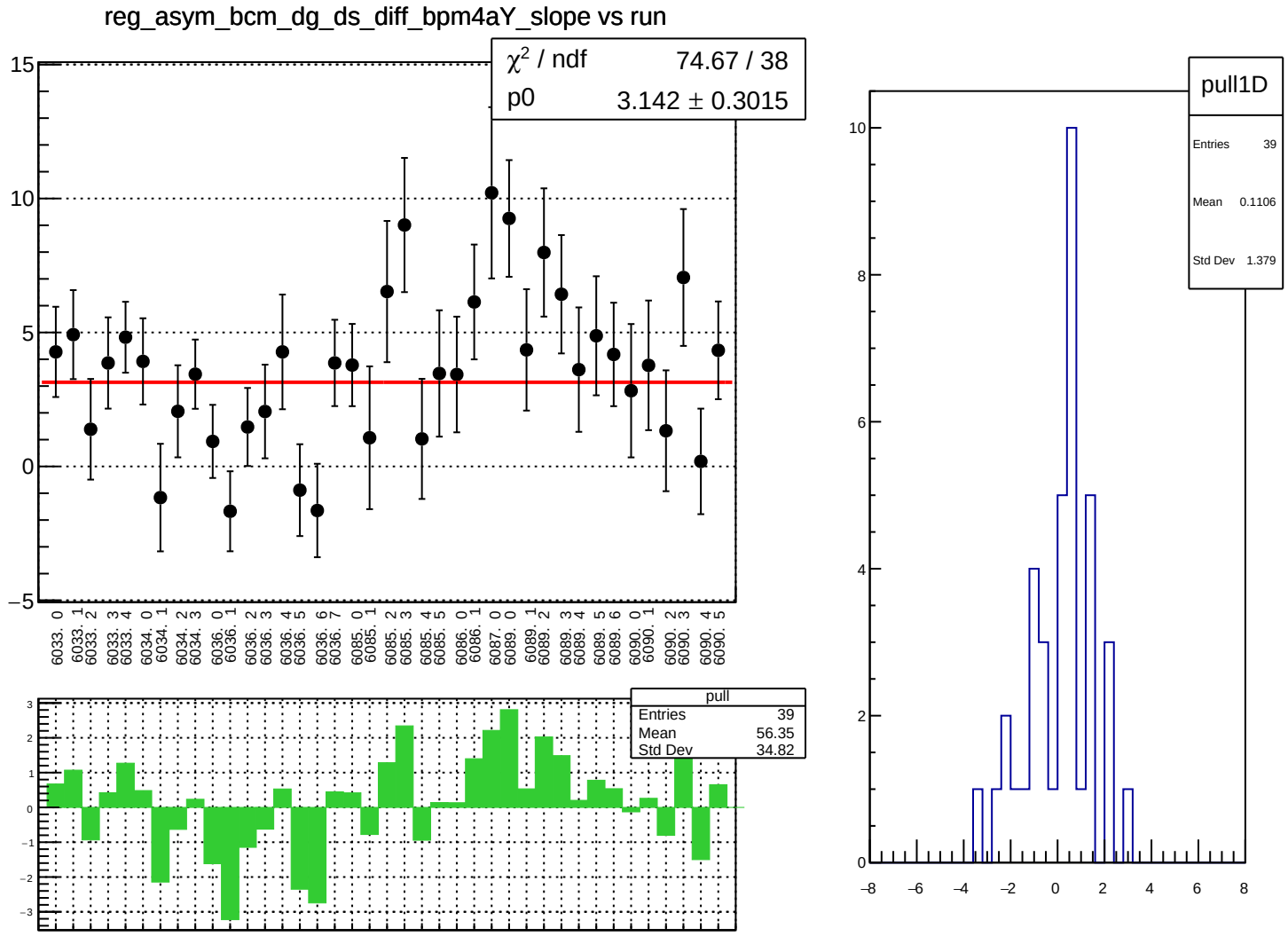

pull1D
Entries 39
Mean −0.04835
Std Dev 1.366

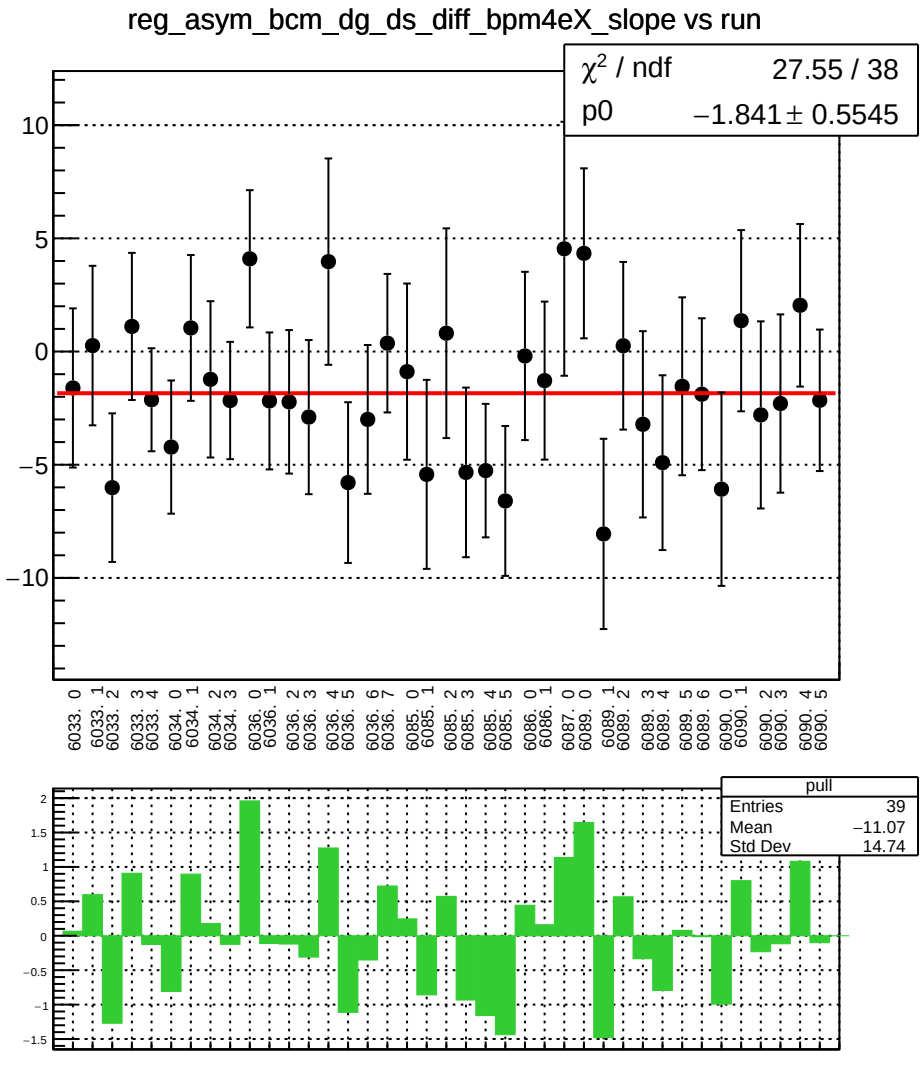

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 24.66 / 38
p0 0.2473 ± 0.02514
pull
Entries 39
Mean 30.58
Std Dev 15.92

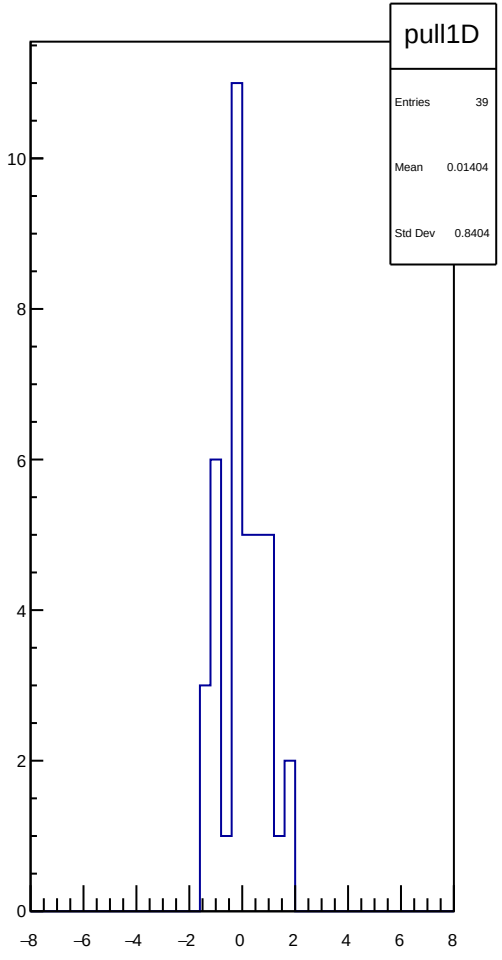

pull1D
Entries 39
Mean 0.02442
Std Dev 0.7948

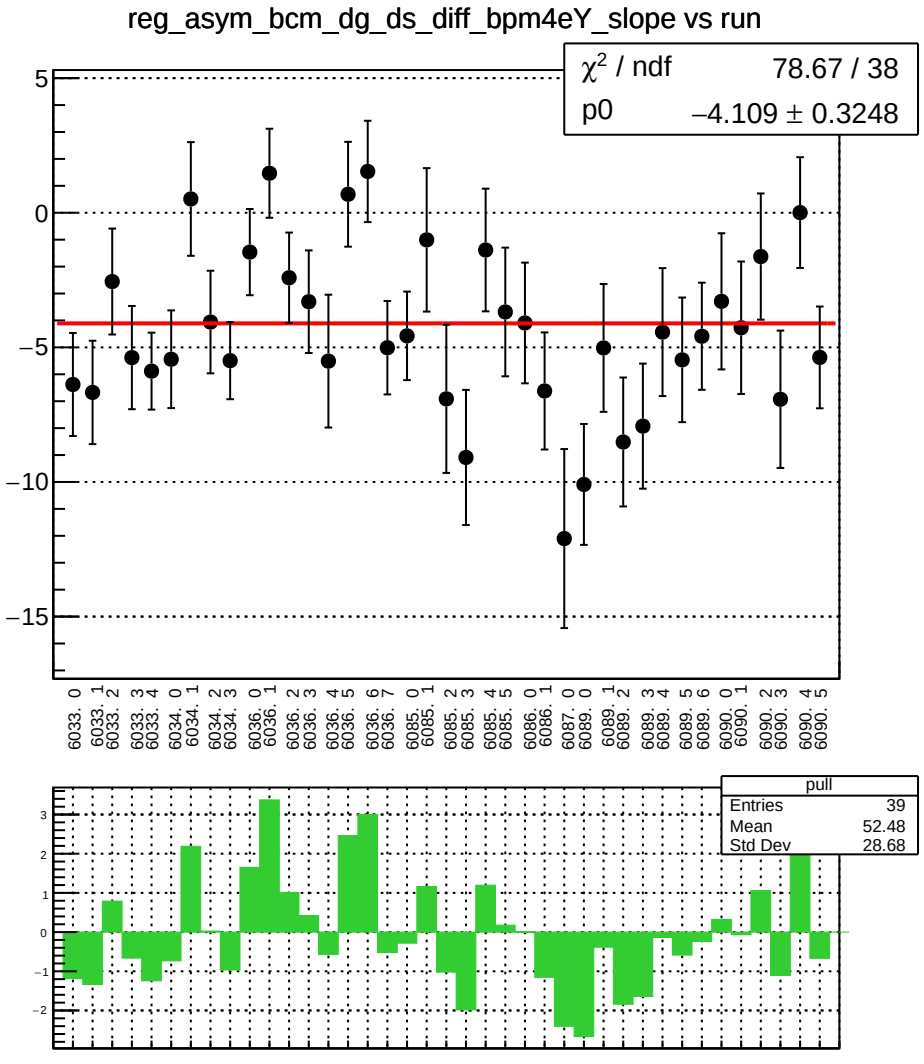

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 27.79 / 38
p0 1.697 ± 0.4991
pull
Entries 39
Mean 11.05
Std Dev 20.5

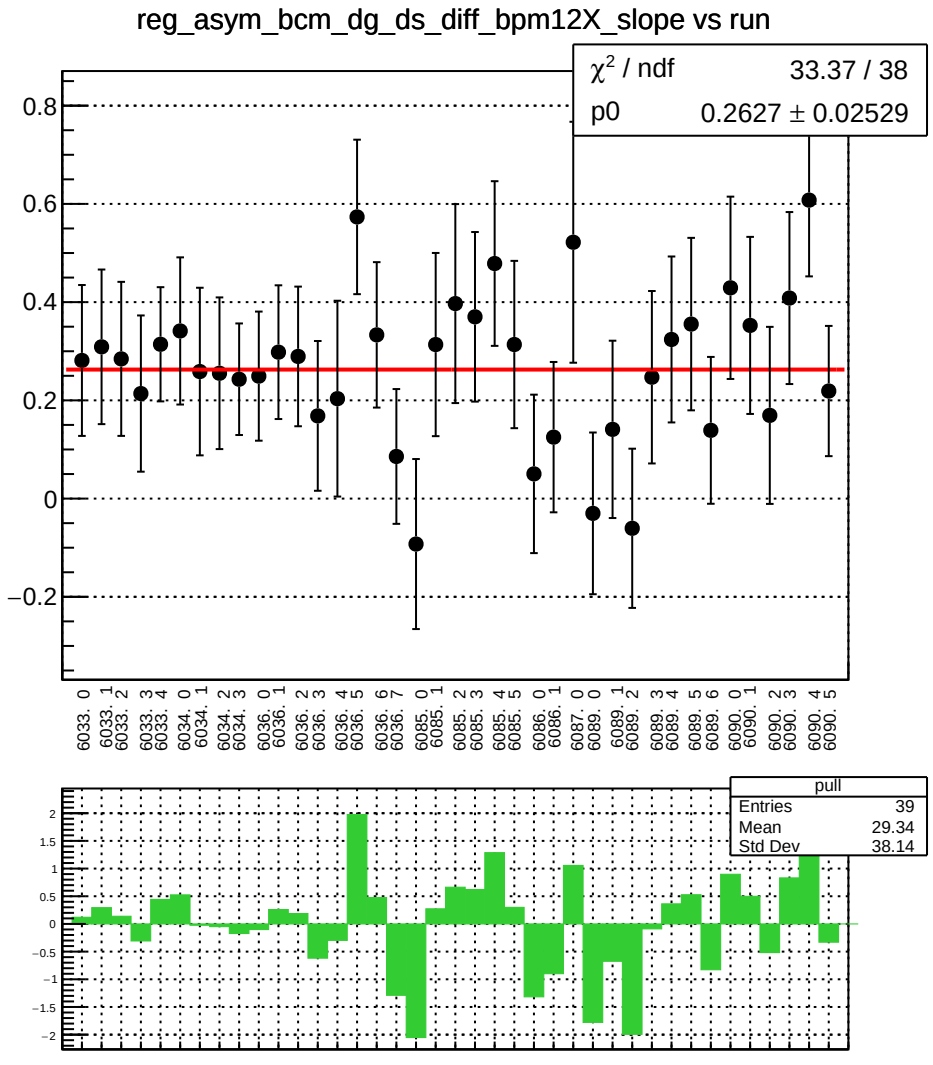

pull1D
Entries 39
Mean −0.01883
Std Dev 0.8439

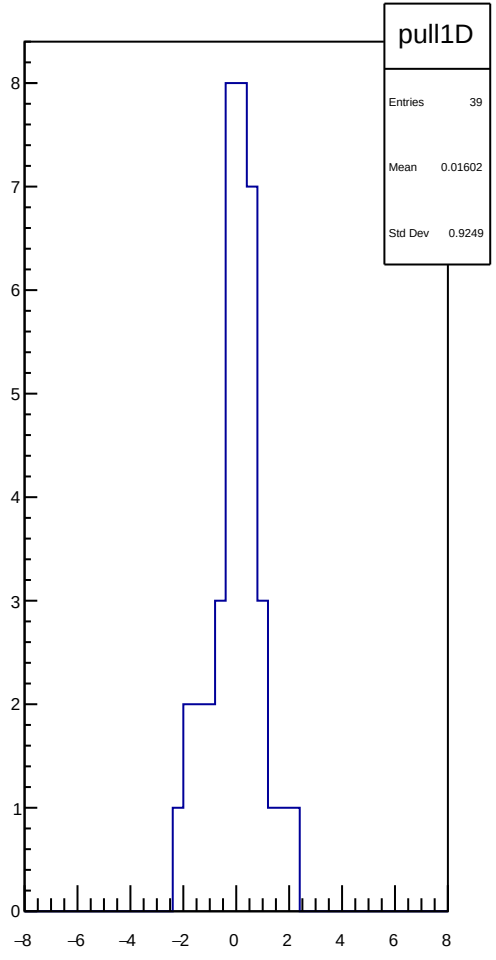

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 74.67 / 38
p0 3.142 ± 0.3015
pull
Entries 39
Mean 56.35
Std Dev 34.82
pull1D
Entries 39
Mean 0.1106
Std Dev 1.379

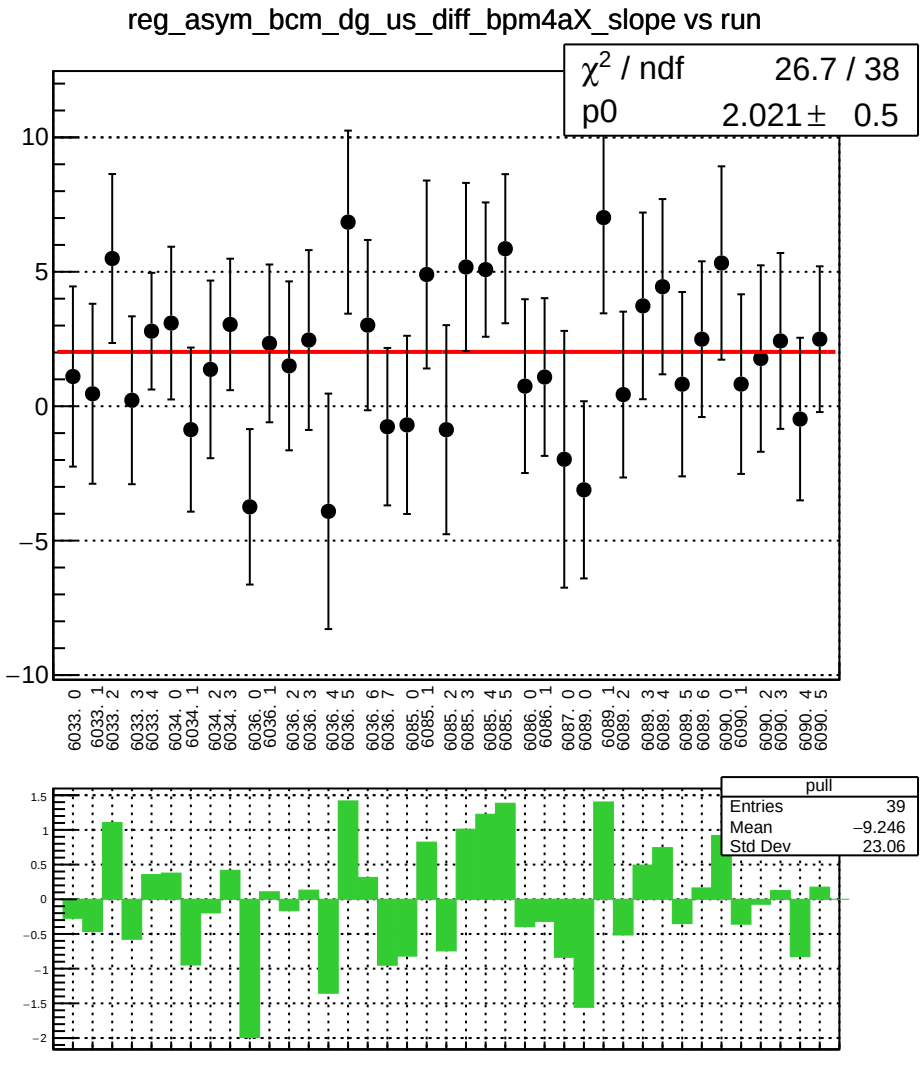

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 27.55 / 38
p0 −1.841 ± 0.5545
pull
Entries 39
Mean −11.07
Std Dev 14.74

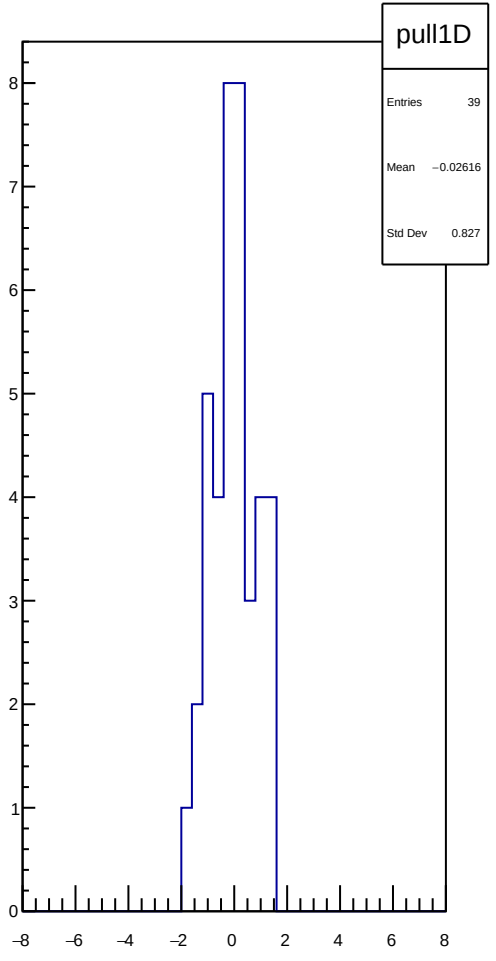

pull1D
Entries 39
Mean 0.01404
Std Dev 0.8404

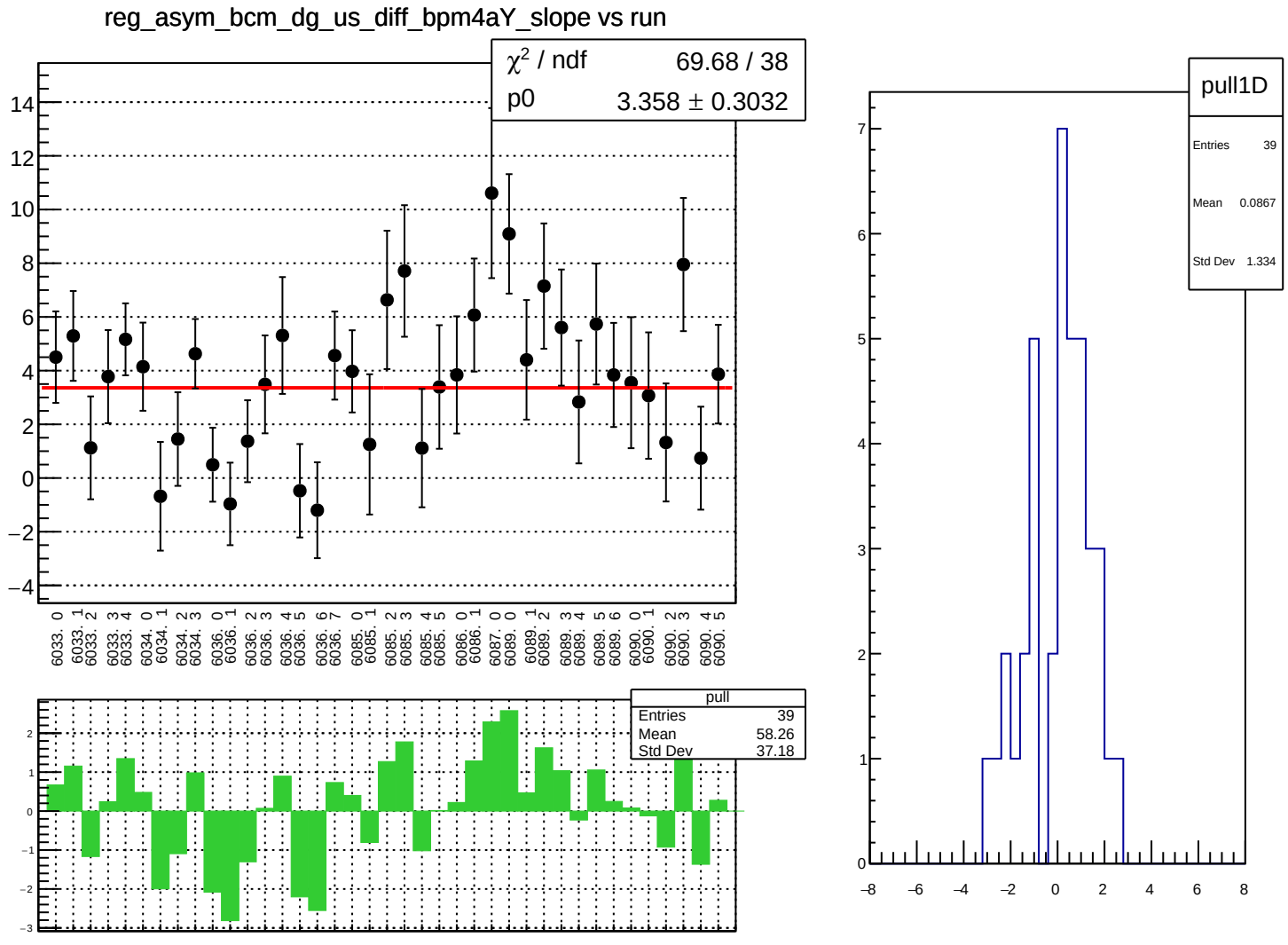

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 78.67 / 38
p0 −4.109 ± 0.3248
pull
Entries 39
Mean 52.48
Std Dev 28.68
pull1D
Entries 39
Mean −0.06527
Std Dev 1.419

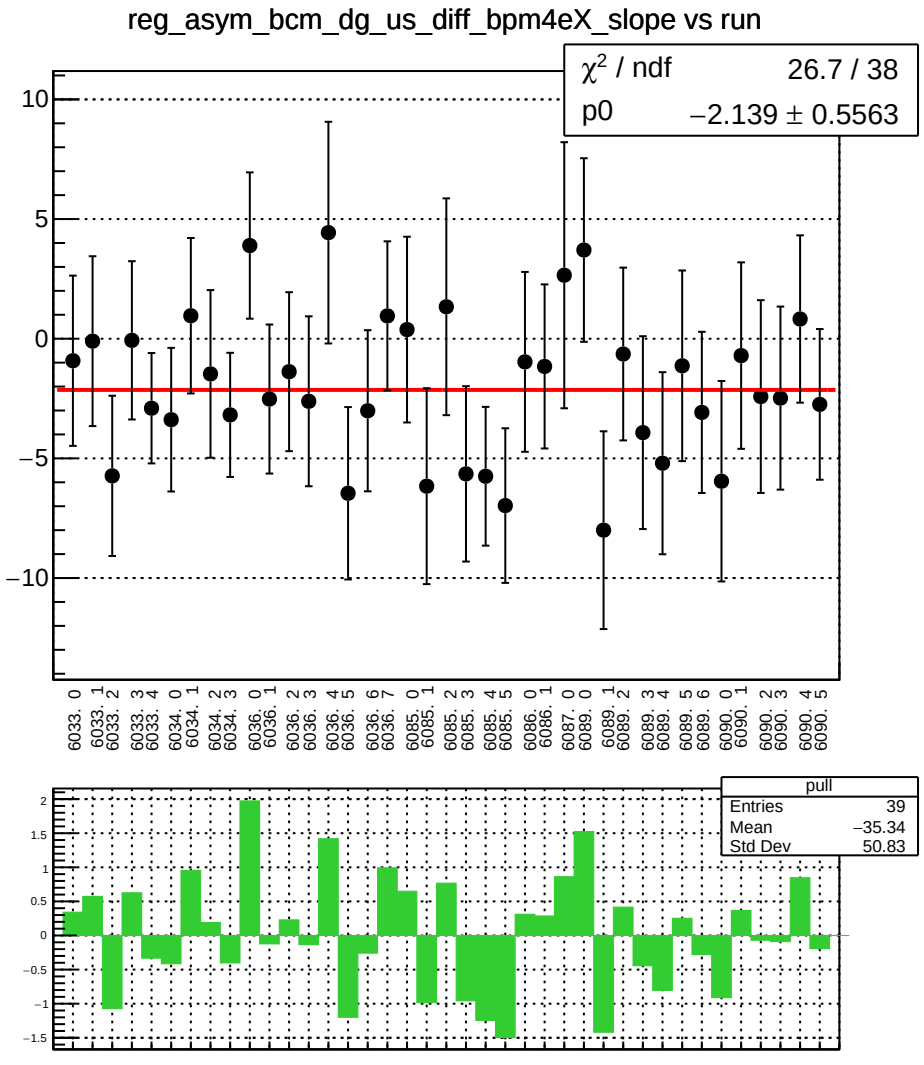

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 33.37 / 38
p0 0.2627 ± 0.02529
pull
Entries 39
Mean 29.34
Std Dev 38.14

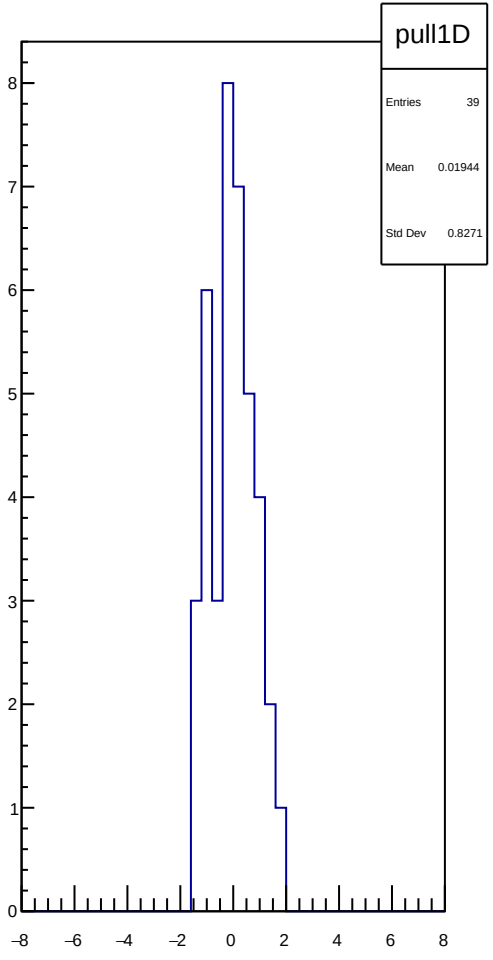

pull1D
Entries 39
Mean 0.01602
Std Dev 0.9249

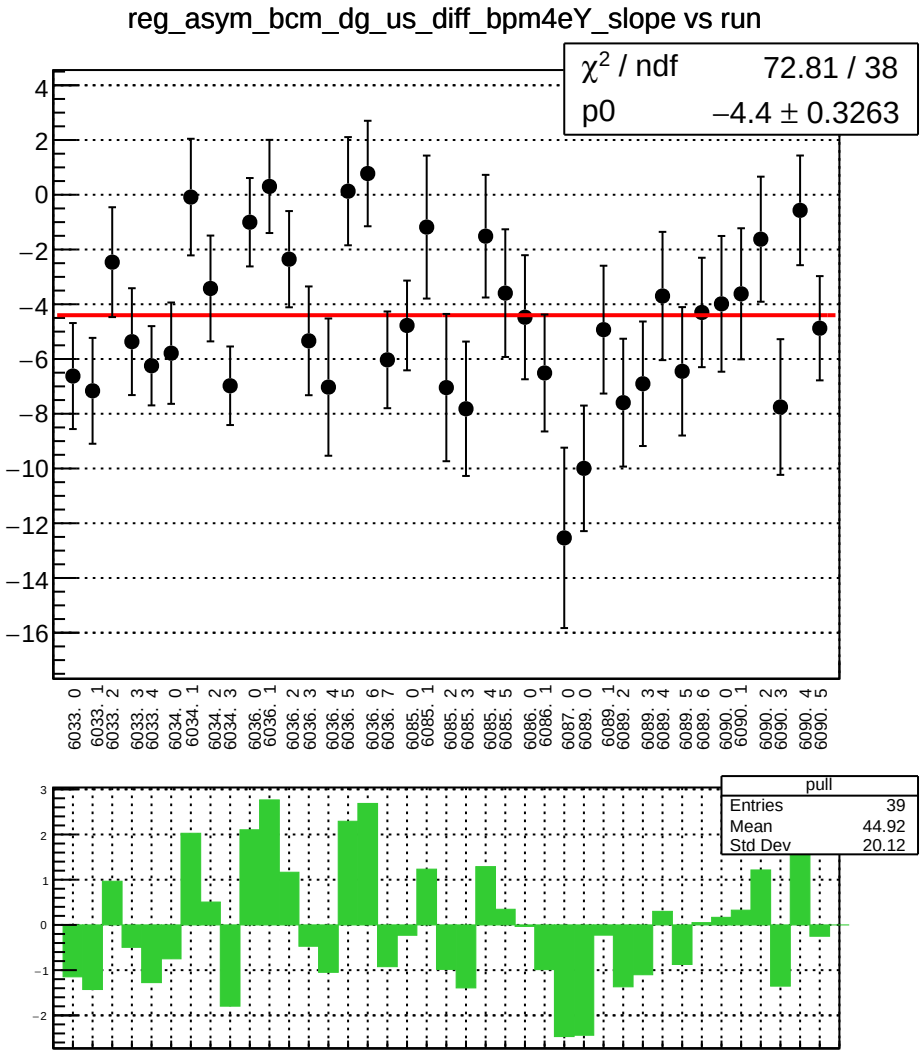

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 26.7 / 38
p0 2.021 ± 0.5
pull
Entries 39
Mean −9.246
Std Dev 23.06

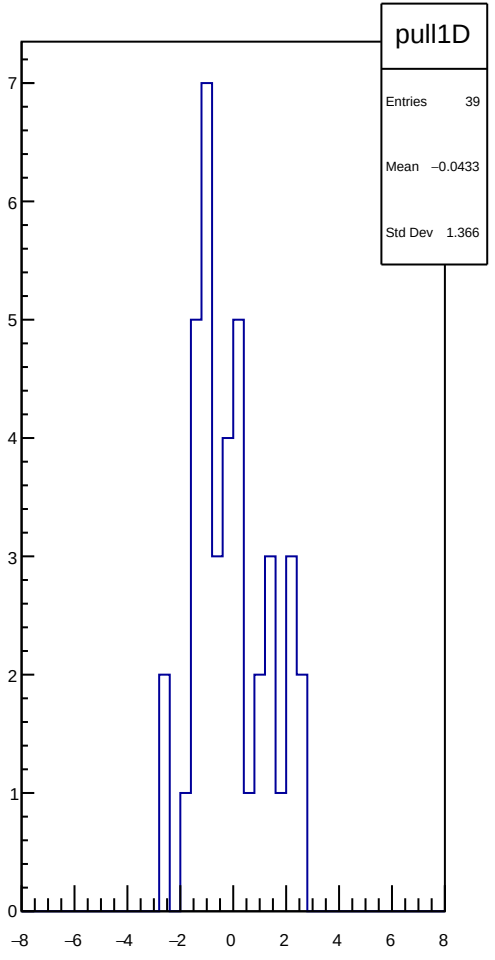

pull1D
Entries 39
Mean −0.02616
Std Dev 0.827

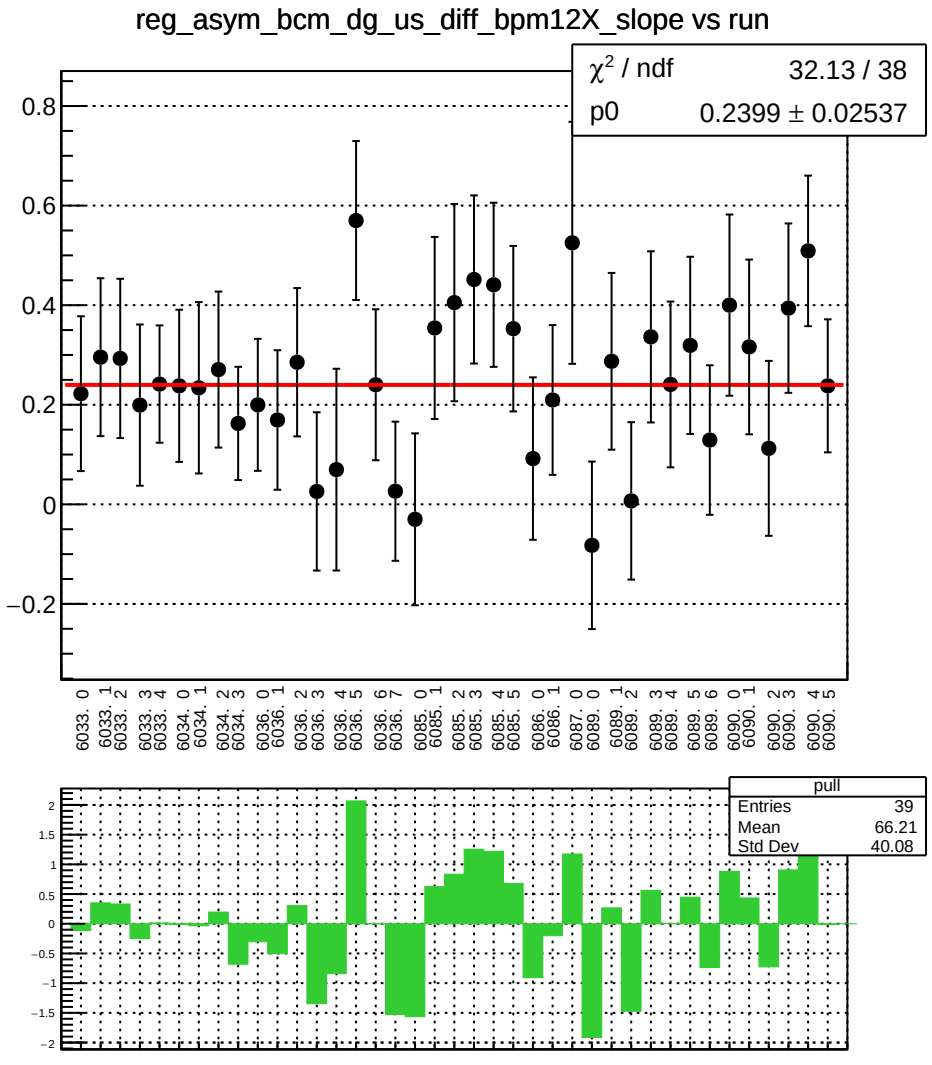

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 69.68 / 38
p0 3.358 ± 0.3032
pull
Entries 39
Mean 58.26
Std Dev 37.18
pull1D
Entries 39
Mean 0.0867
Std Dev 1.334

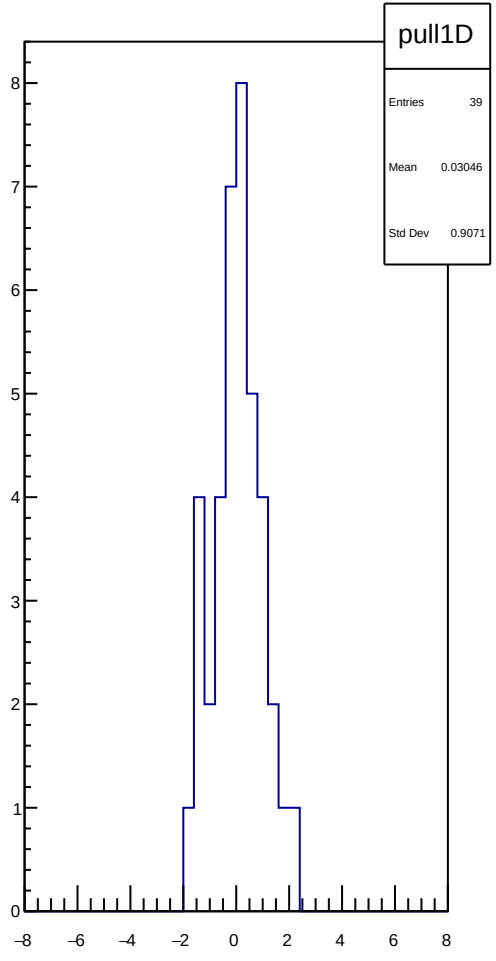

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 26.7 / 38
p0 −2.139 ± 0.5563
10
5
0
−5
−10
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6034. 0
6034. 1
6034. 2
6034. 3
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 39
Mean −35.34
Std Dev 50.83
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 39
Mean 0.01944
Std Dev 0.8271
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 72.81 / 38
p0 −4.4 ± 0.3263
pull
Entries 39
Mean 44.92
Std Dev 20.12


pull1D
Entries 39
Mean −0.0433
Std Dev 1.366


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 32.13 / 38
p0 0.2399 ± 0.02537
pull
Entries 39
Mean 66.21
Std Dev 40.08


pull1D
Entries 39
Mean 0.03046
Std Dev 0.9071