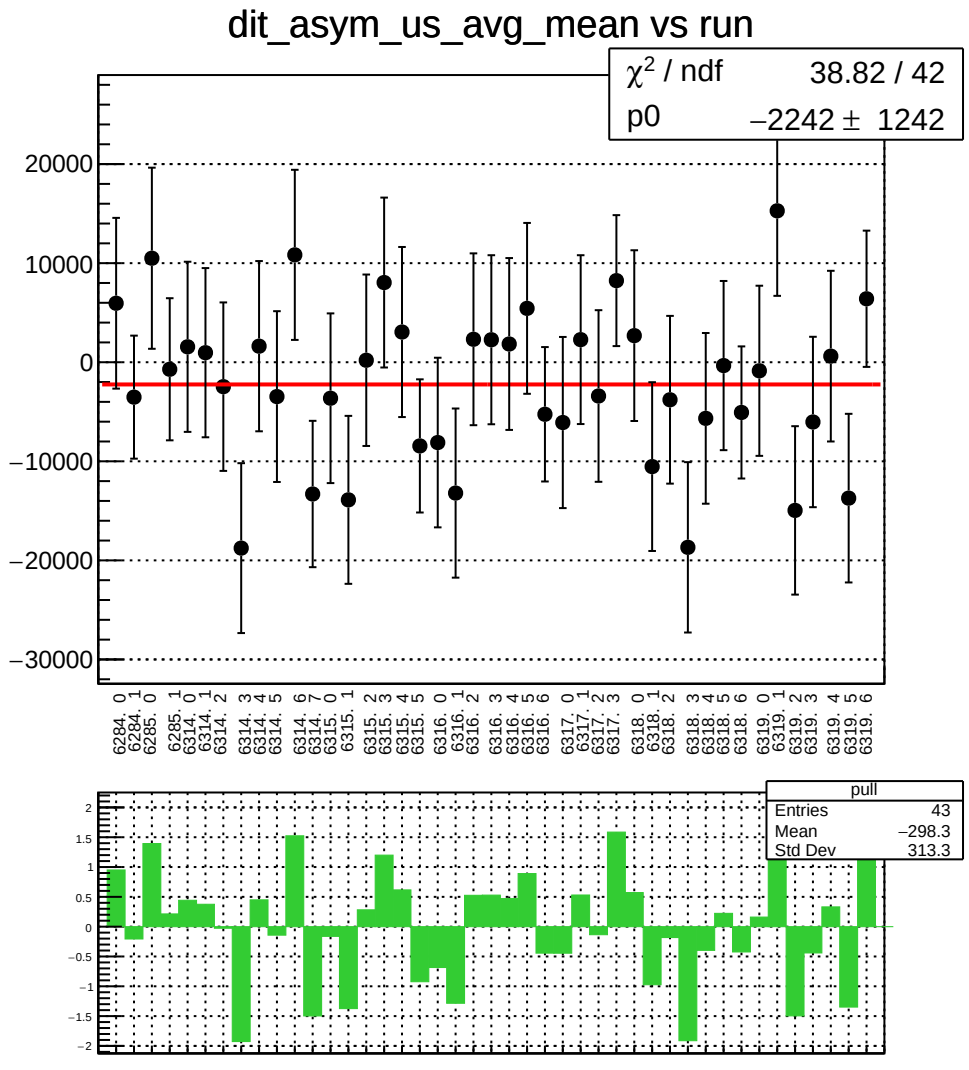
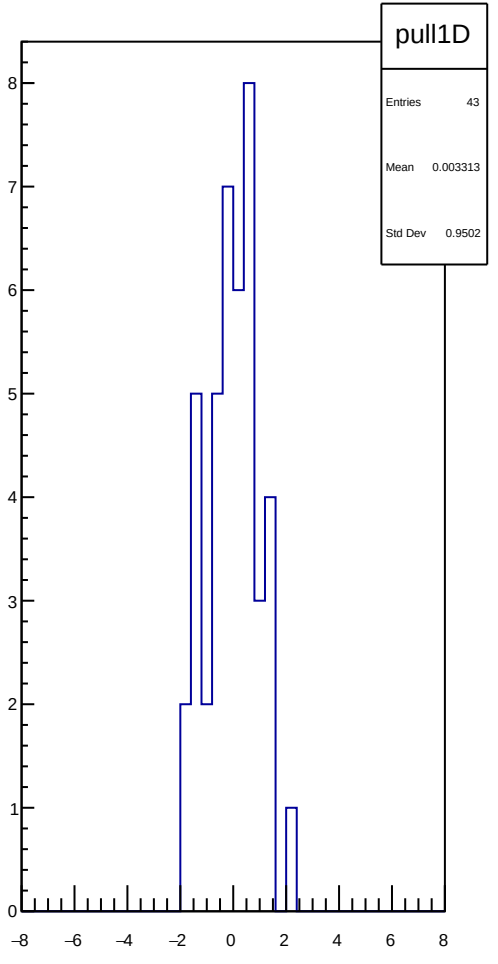
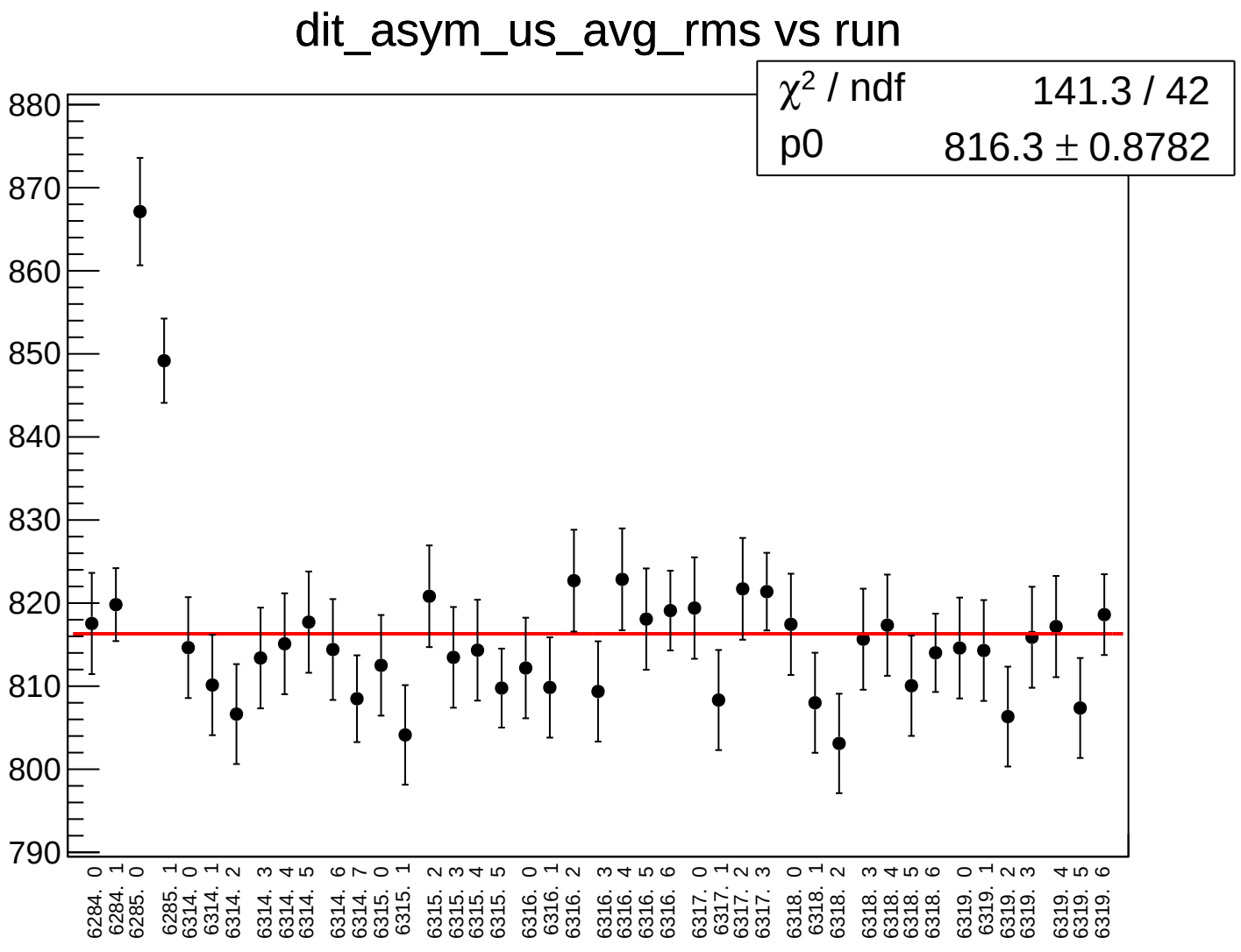
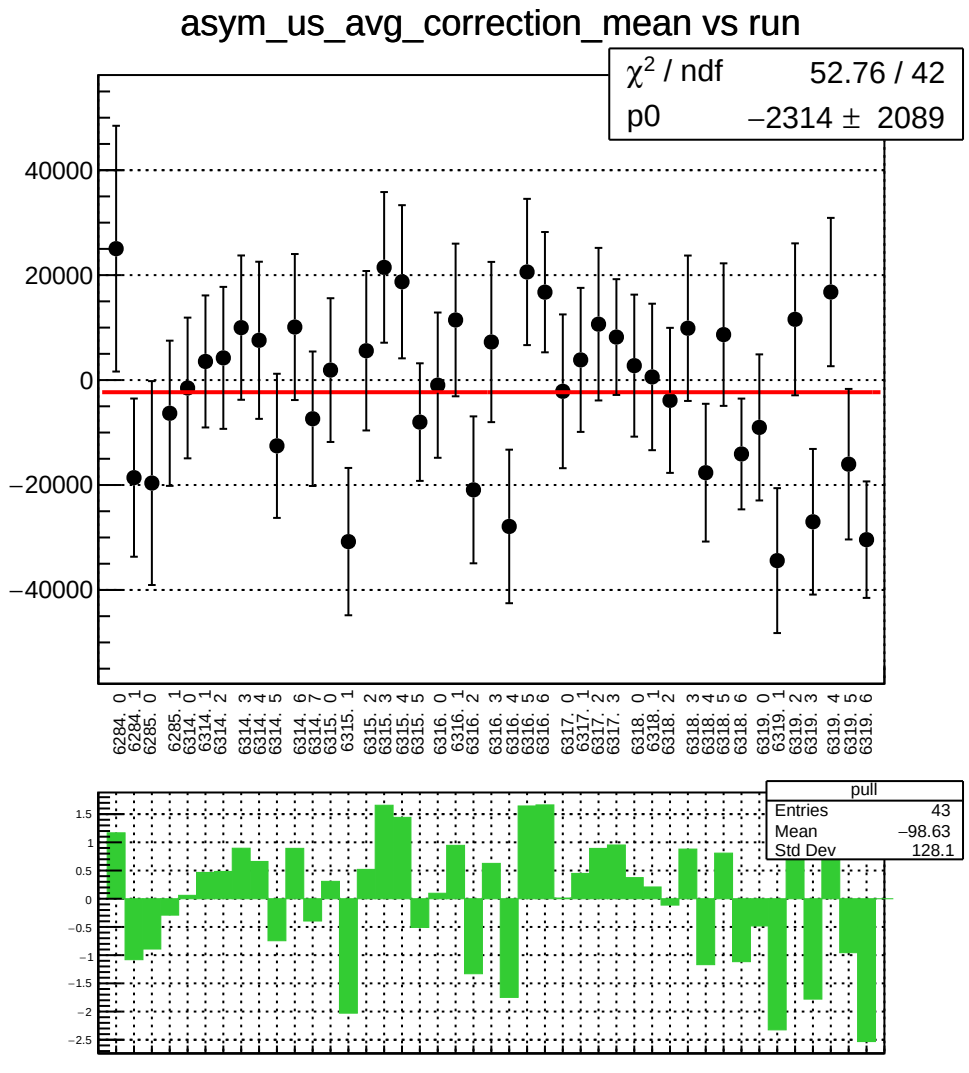
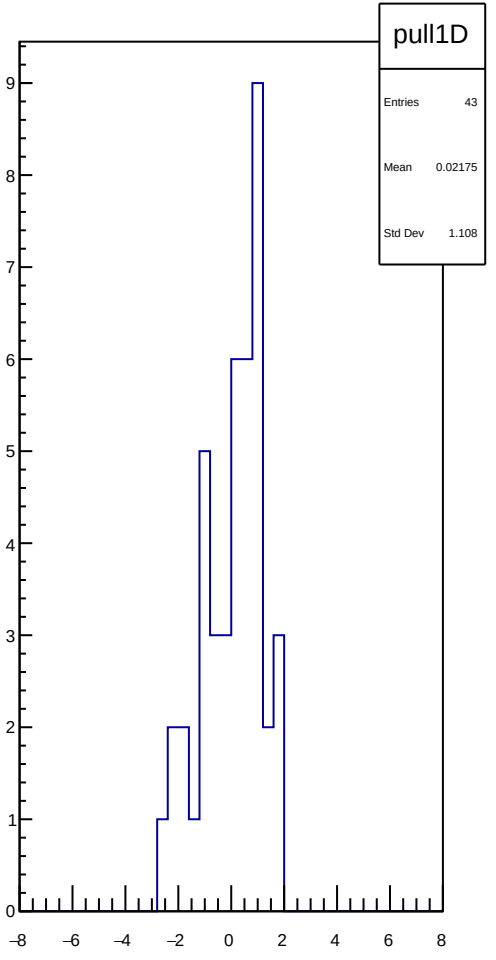
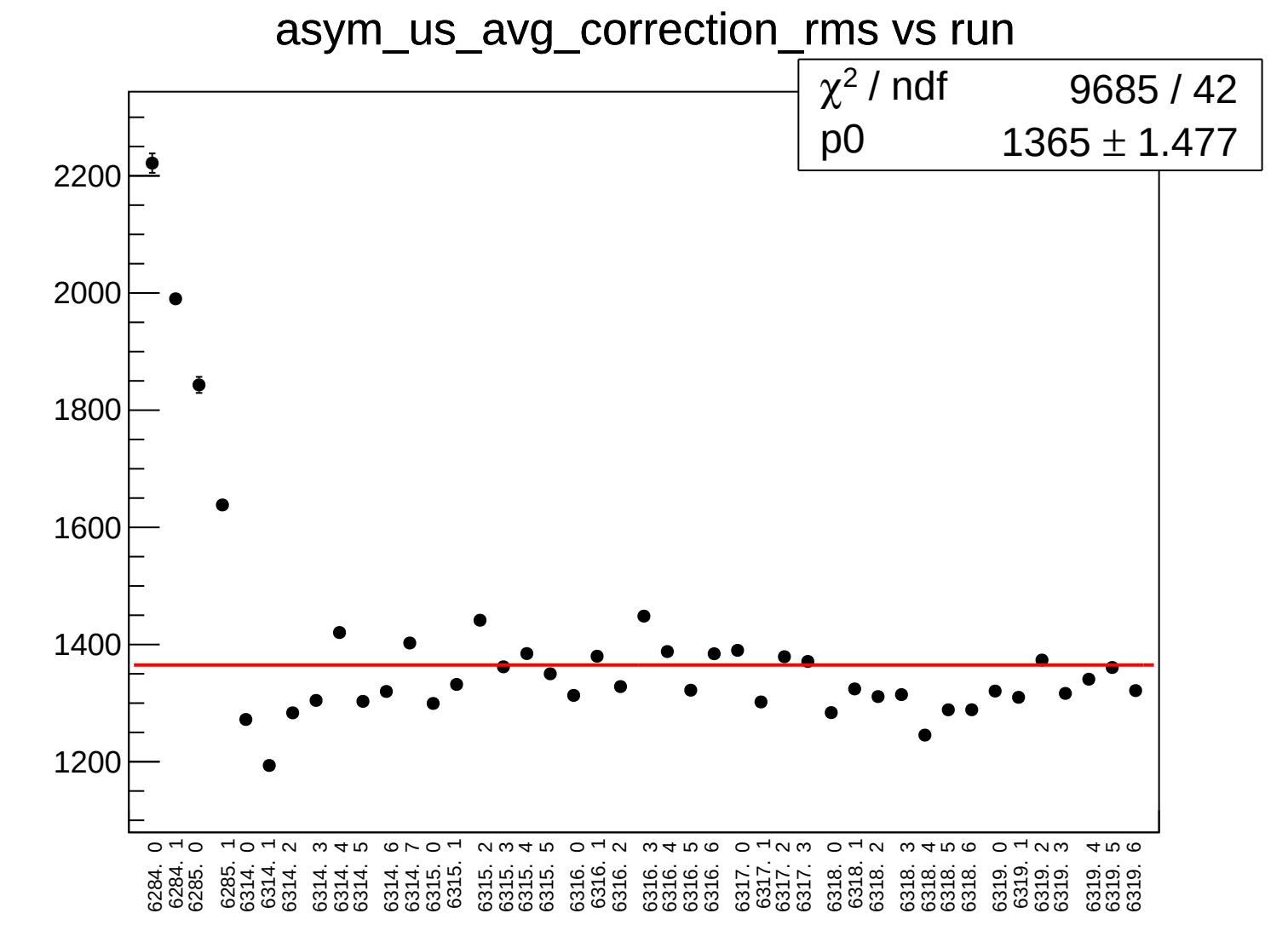

dit_asym_us_avg_mean vs run
χ² / ndf 38.82 / 42
p0 −2242 ± 1242
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −298.3
Std Dev 313.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

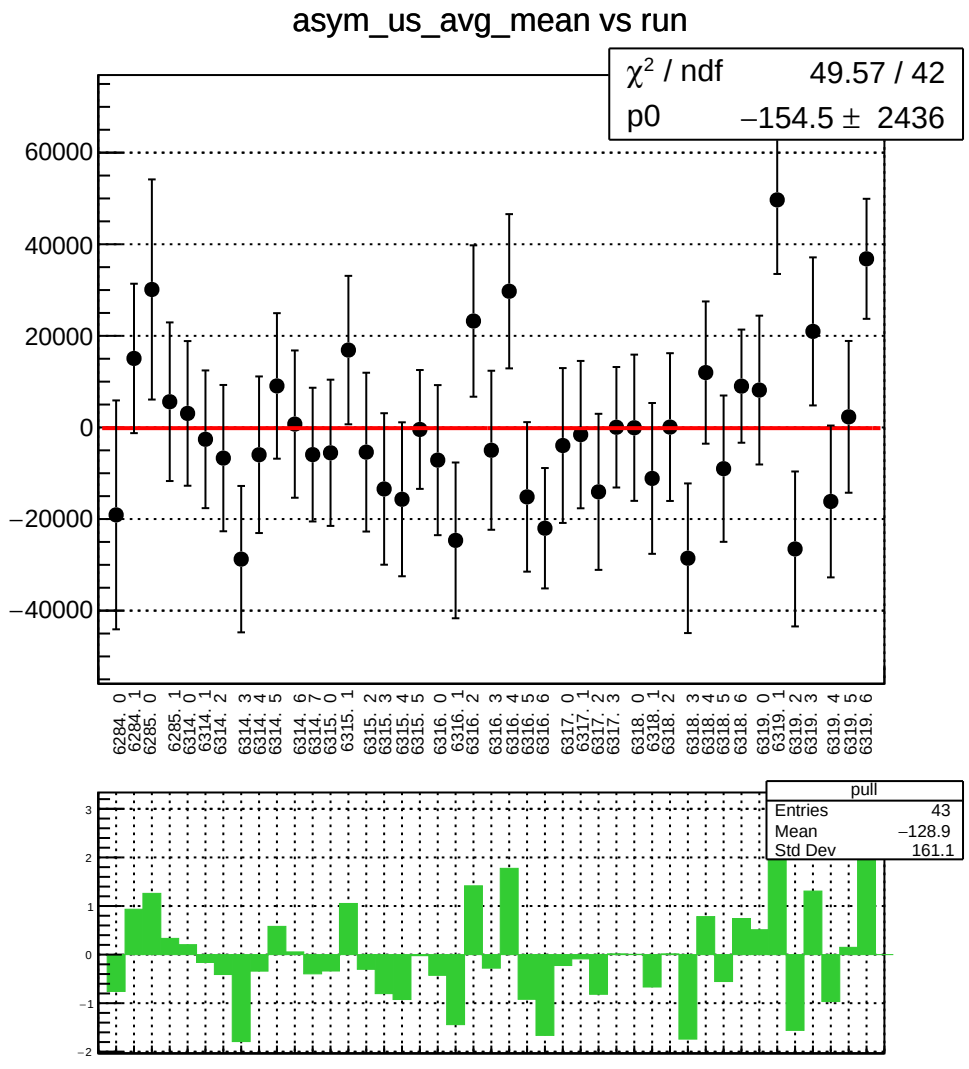

pull1D
Entries 43
Mean 0.003313
Std Dev 0.9502
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

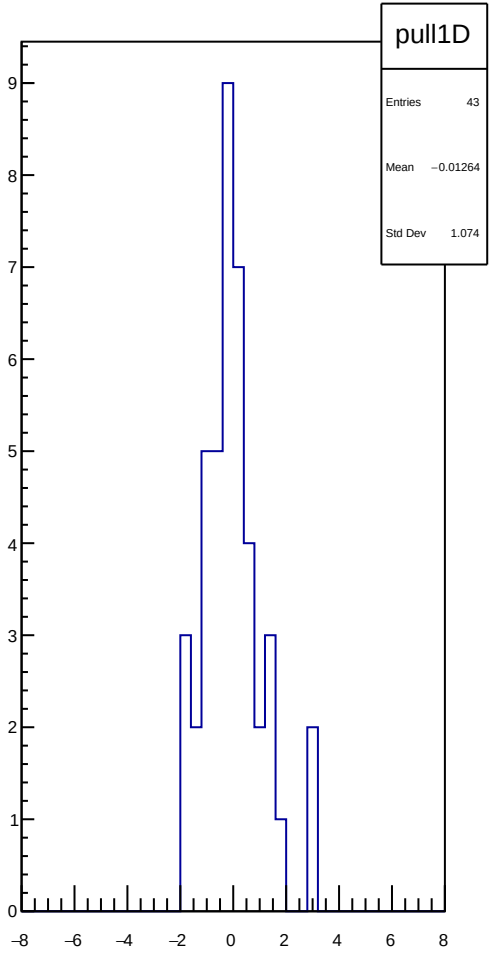

dit_asym_us_avg_rms vs run
χ² / ndf 141.3 / 42
p0 816.3 ± 0.8782
880
870
860
850
840
830
820
810
800
790
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

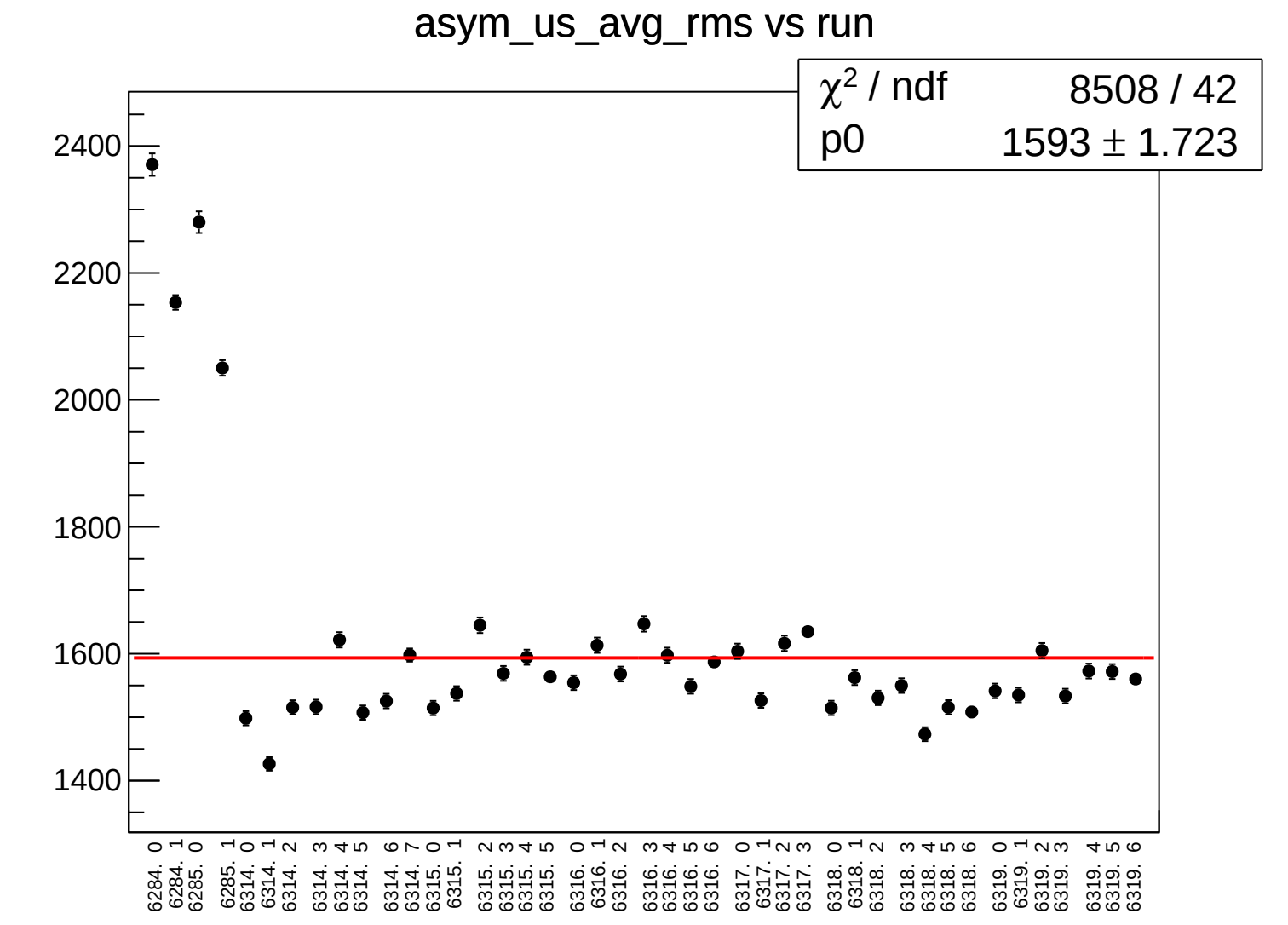

asym_us_avg_correction_mean vs run
χ² / ndf 52.76 / 42
p0 −2314 ± 2089
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −98.63
Std Dev 128.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

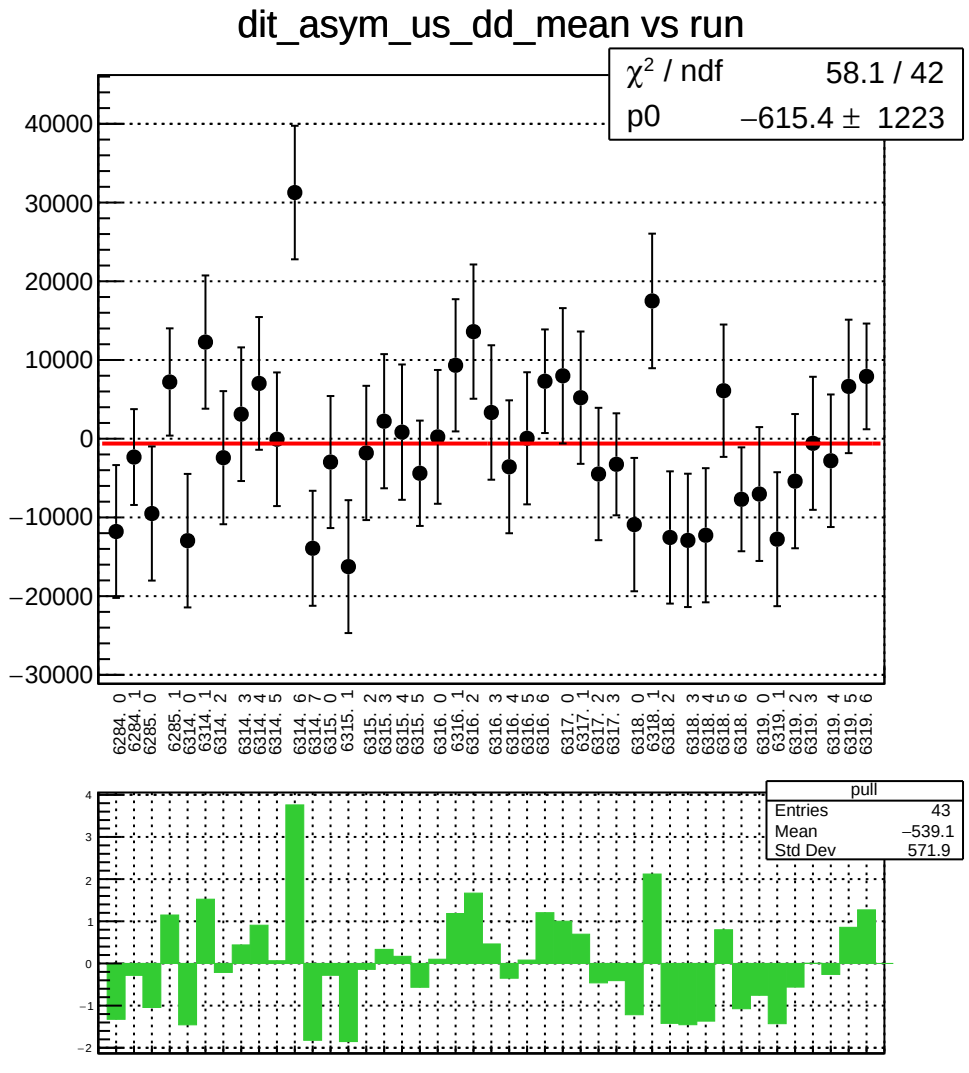

pull1D
Entries 43
Mean 0.02175
Std Dev 1.108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

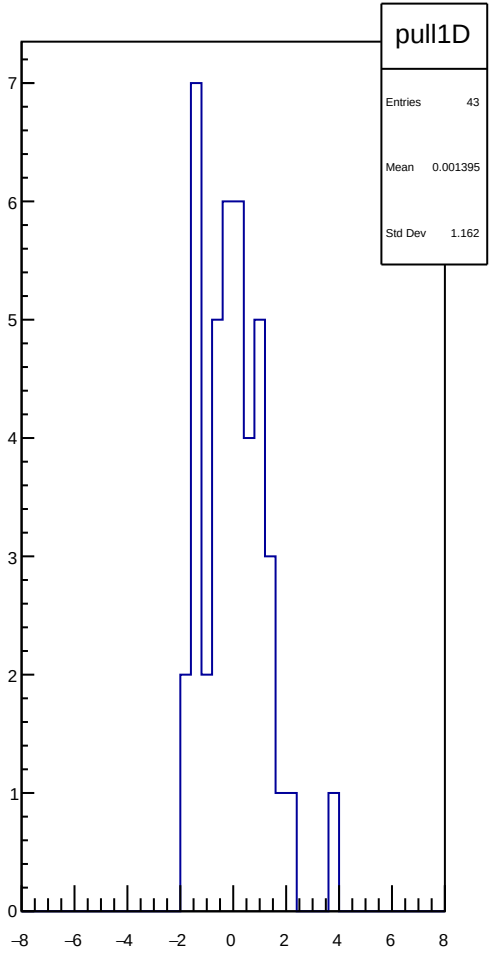

asym_us_avg_correction_rms vs run
χ² / ndf 9685 / 42
p0 1365 ± 1.477
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

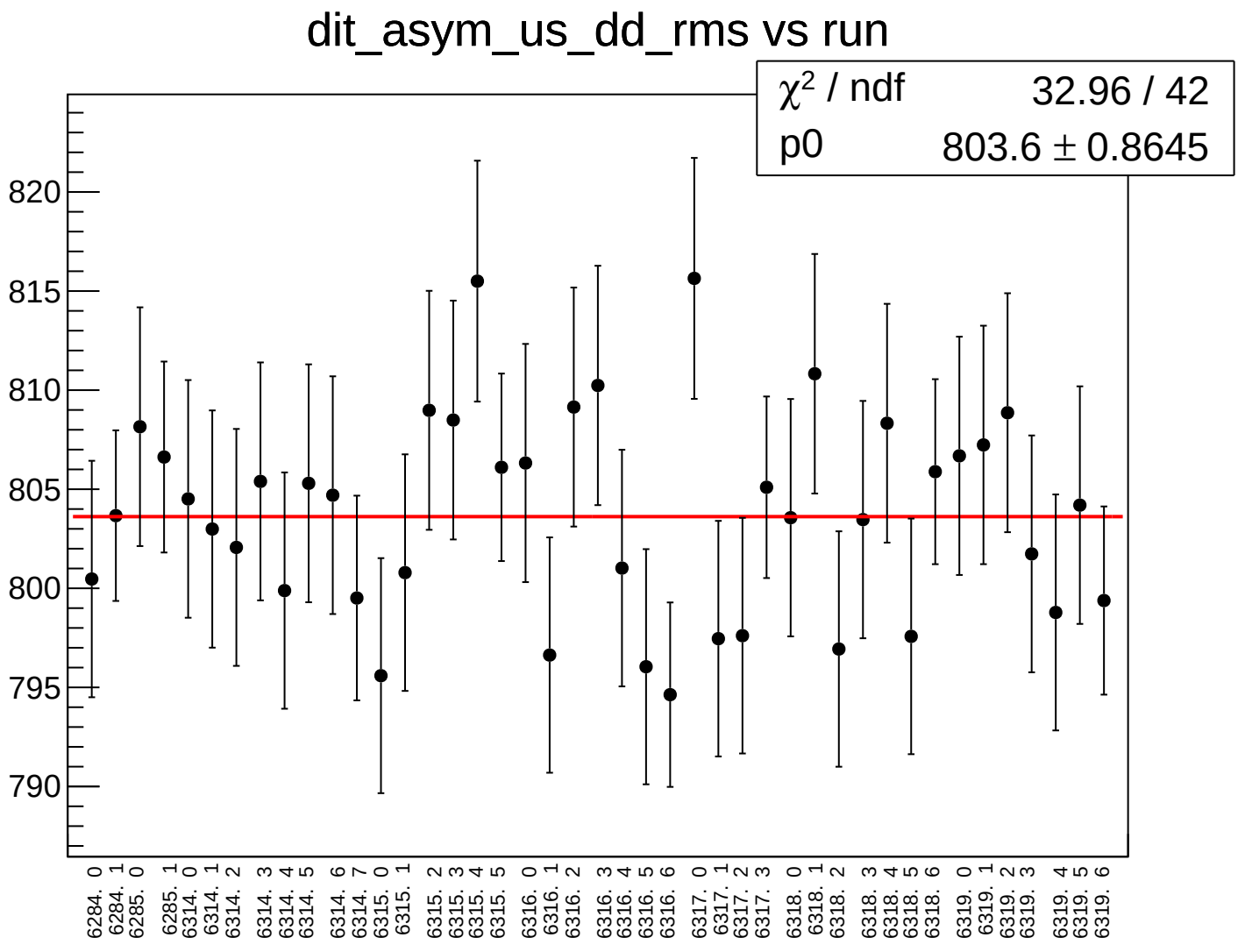

asym_us_avg_mean vs run
χ² / ndf 49.57 / 42
p0 −154.5 ± 2436
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −128.9
Std Dev 161.1
3
2
1
0
−1
−2

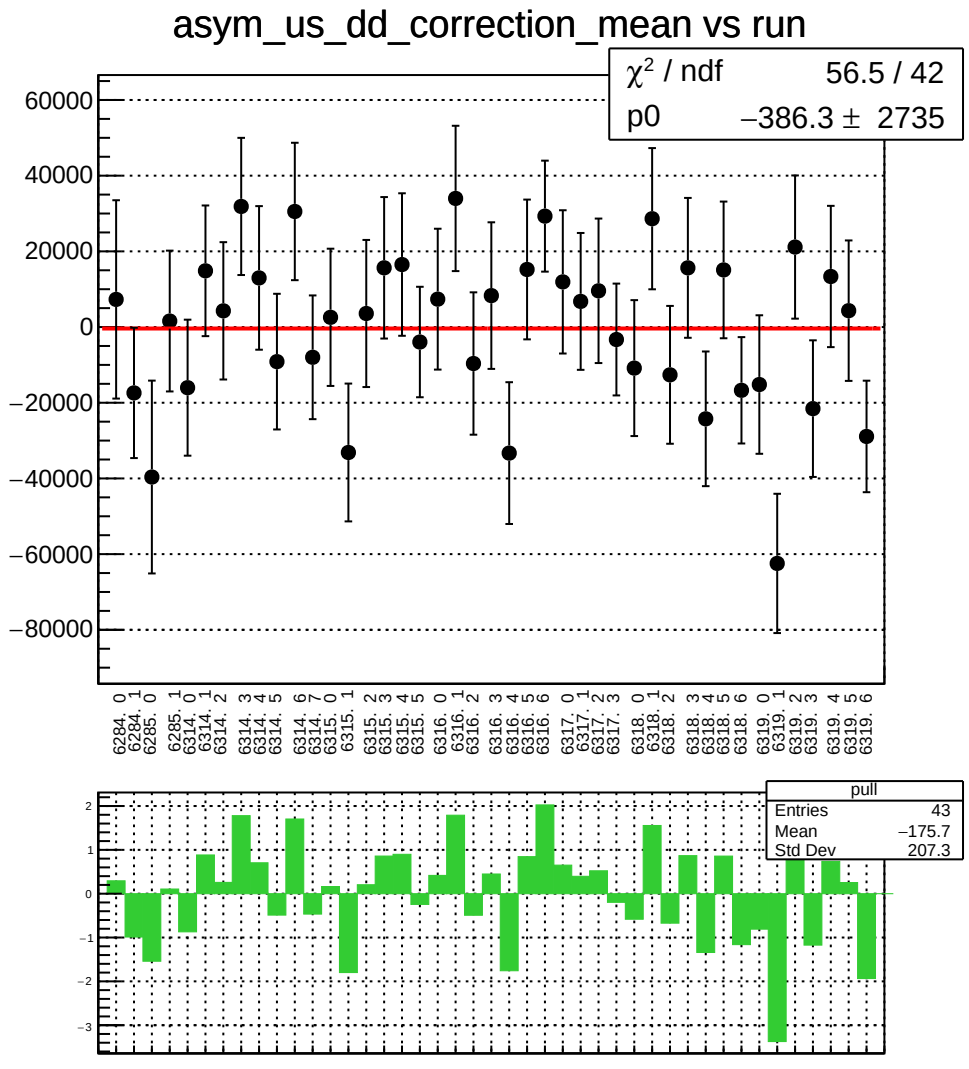

pull1D
Entries 43
Mean −0.01264
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

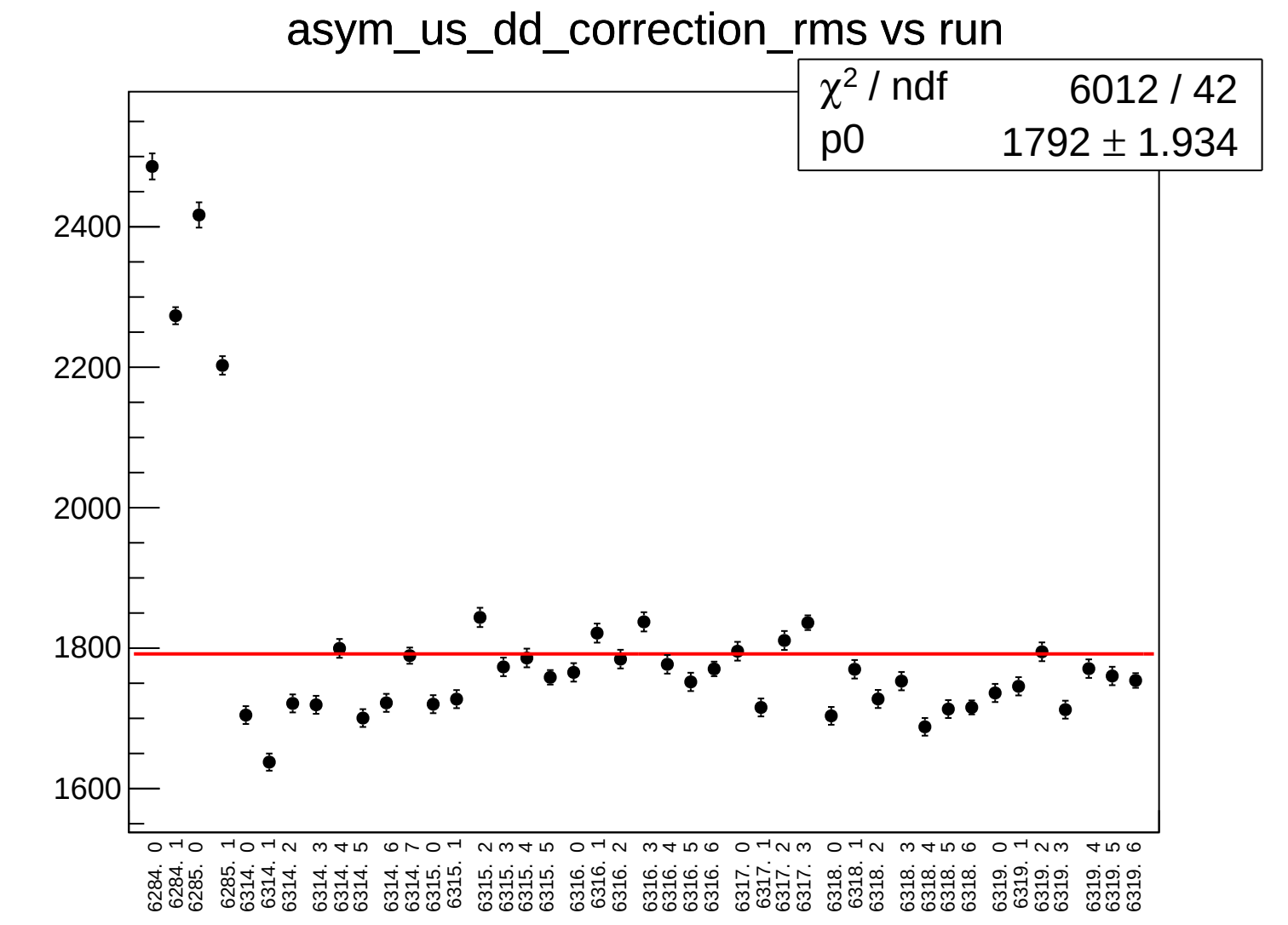

asym_us_avg_rms vs run
χ² / ndf 8508 / 42
p0 1593 ± 1.723
2400
2200
2000
1800
1600
1400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

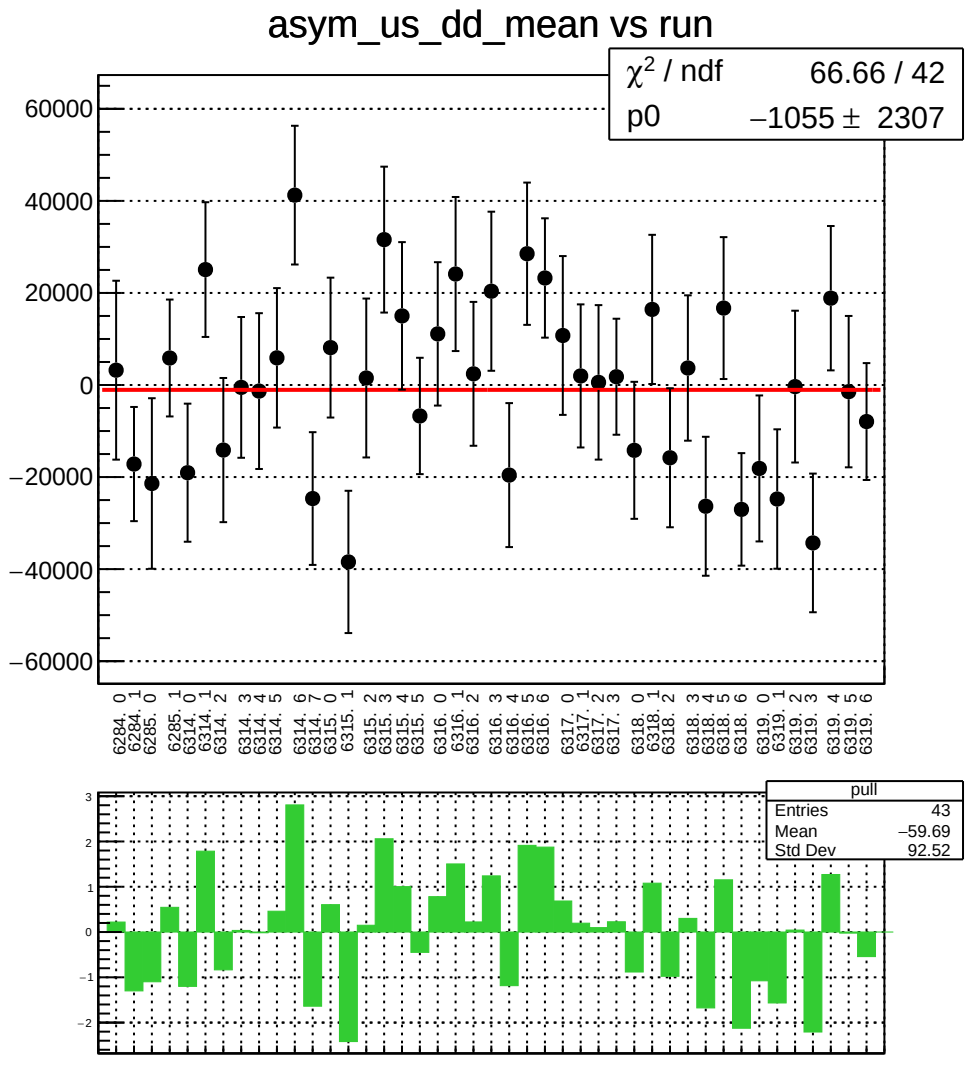

dit_asym_us_dd_mean vs run
χ² / ndf 58.1 / 42
p0 −615.4 ± 1223
40000
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −539.1
Std Dev 571.9
4
3
2
1
0
−1
−2

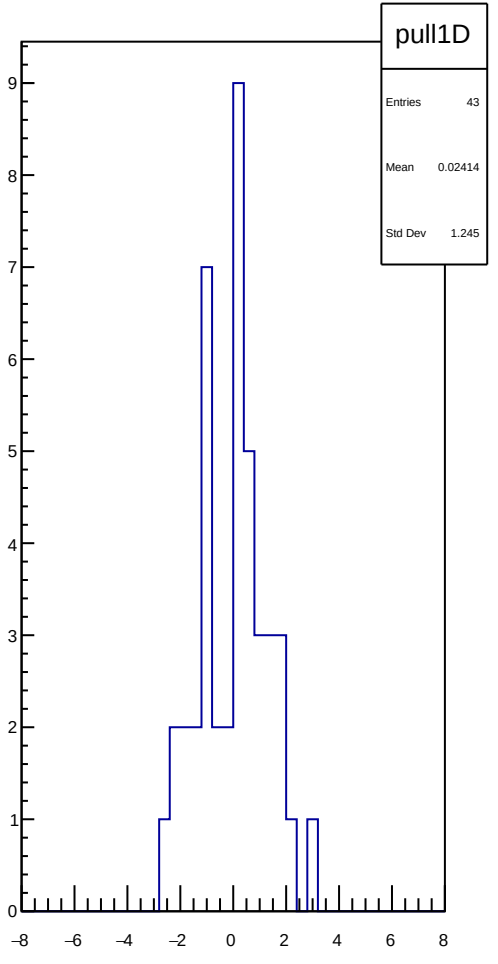

pull1D
Entries 43
Mean 0.001395
Std Dev 1.162
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

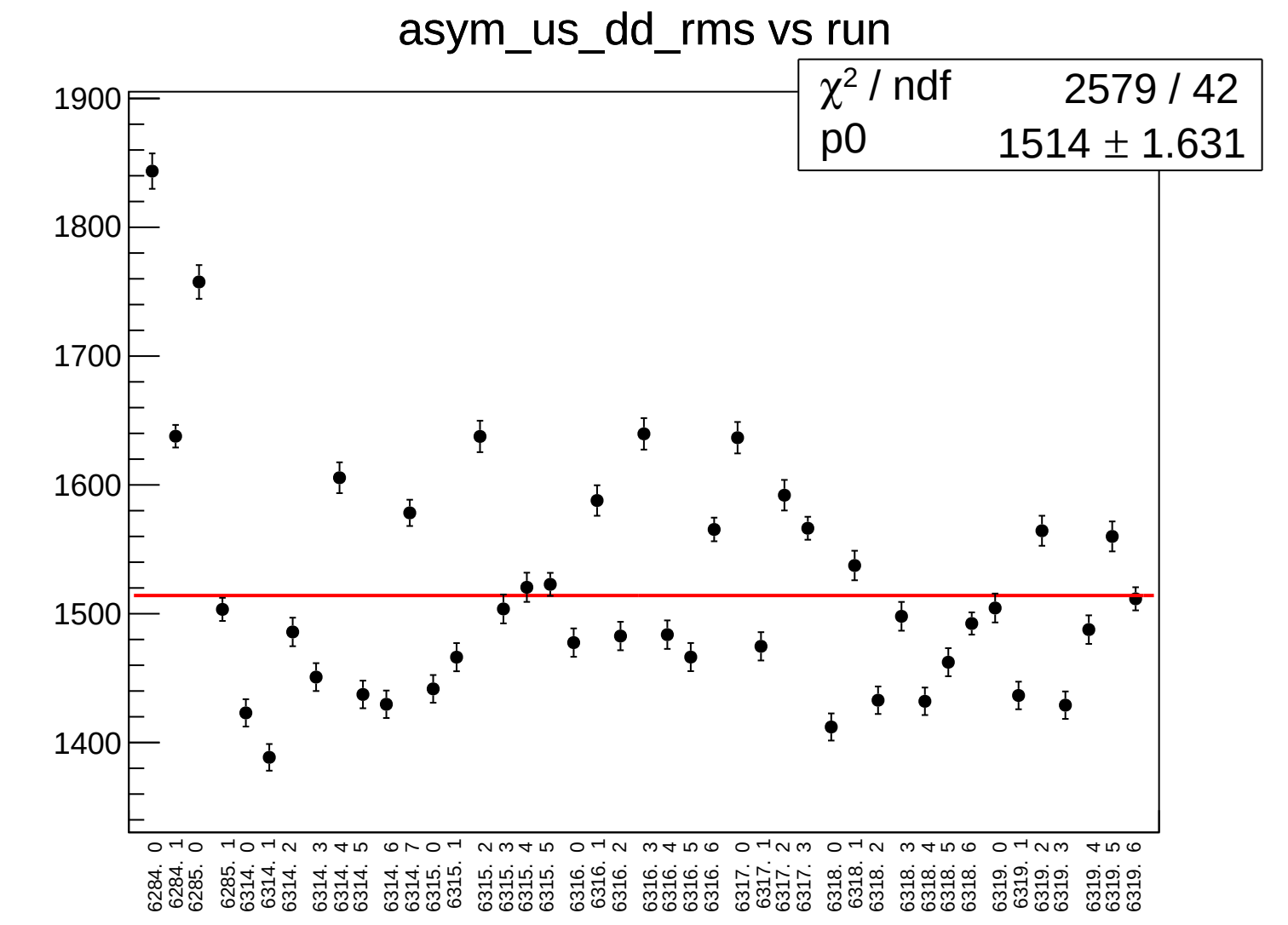

dit_asym_us_dd_rms vs run
χ² / ndf 32.96 / 42
p0 803.6 ± 0.8645
820
815
810
805
800
795
790
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

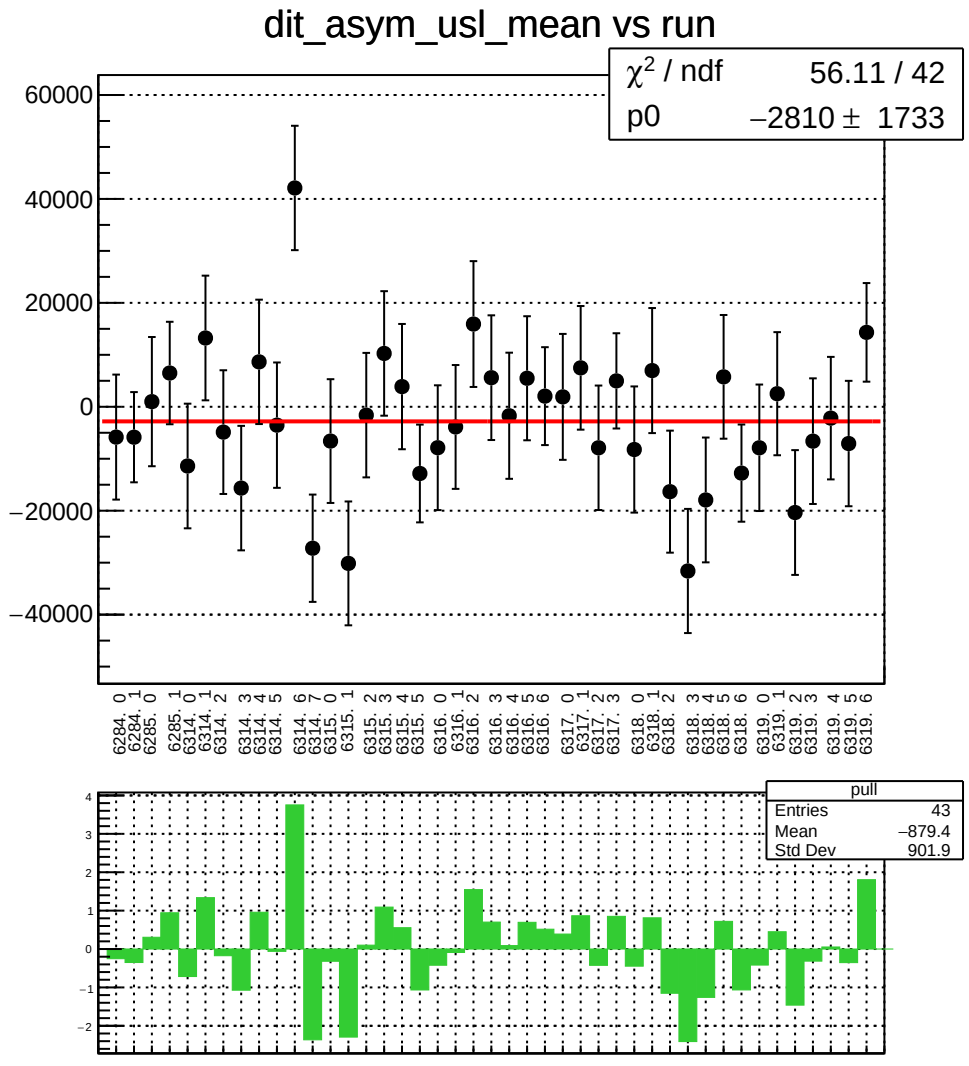

asym_us_dd_correction_mean vs run
χ² / ndf 56.5 / 42
p0 −386.3 ± 2735
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −175.7
Std Dev 207.3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01087
Std Dev 1.146
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

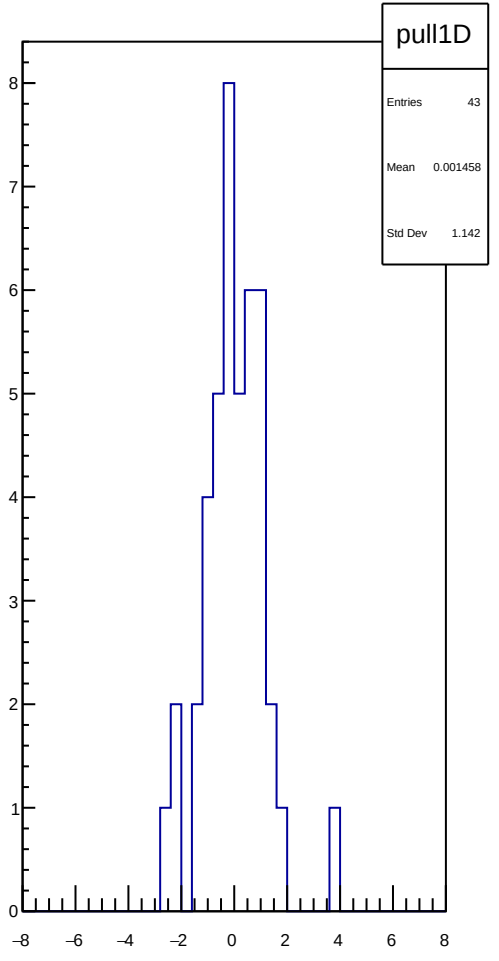

asym_us_dd_correction_rms vs run
χ² / ndf 6012 / 42
p0 1792 ± 1.934
2400
2200
2000
1800
1600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

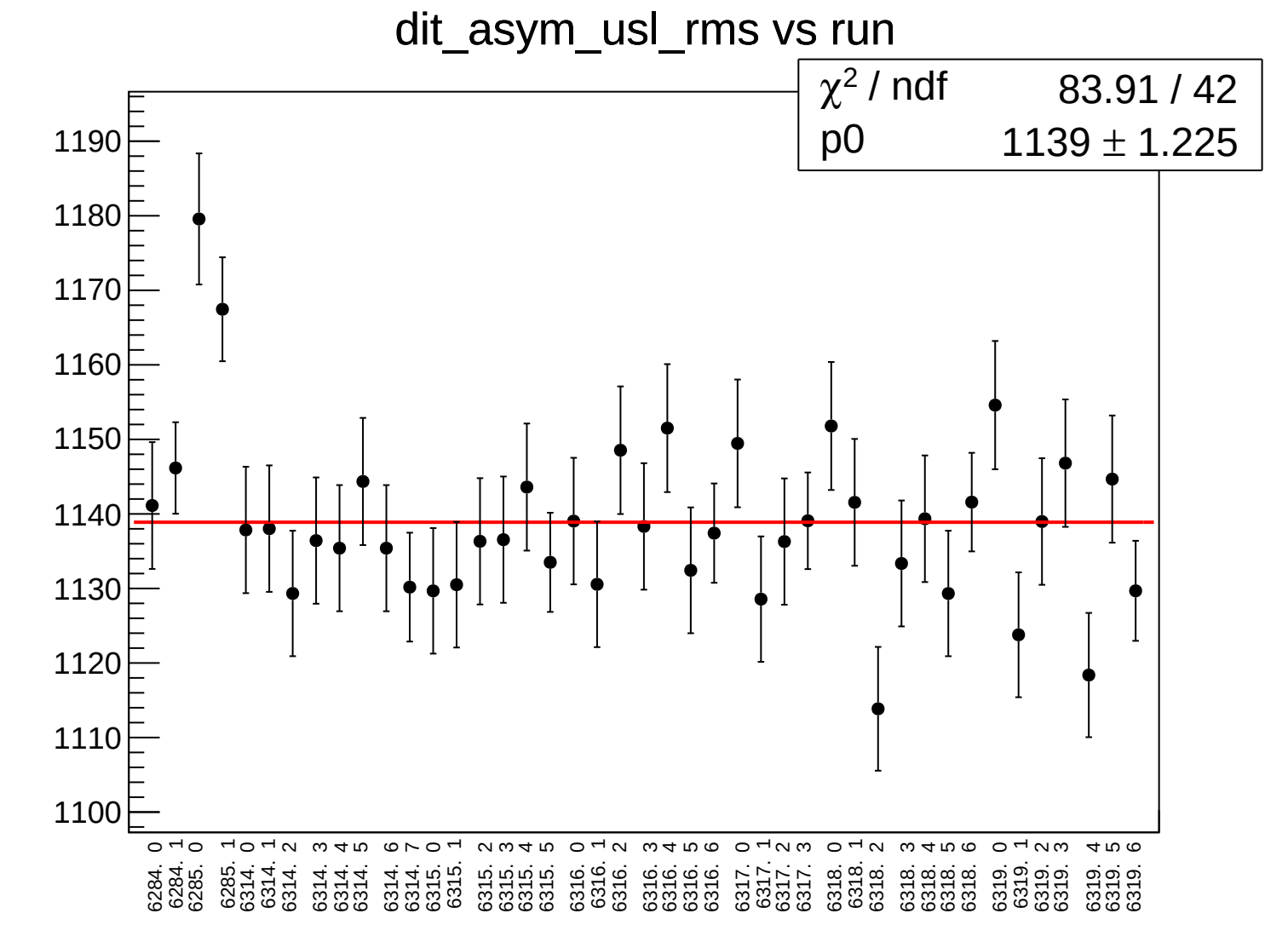

asym_us_dd_mean vs run
χ² / ndf 66.66 / 42
p0 −1055 ± 2307
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −59.69
Std Dev 92.52
3
2
1
0
−1
−2

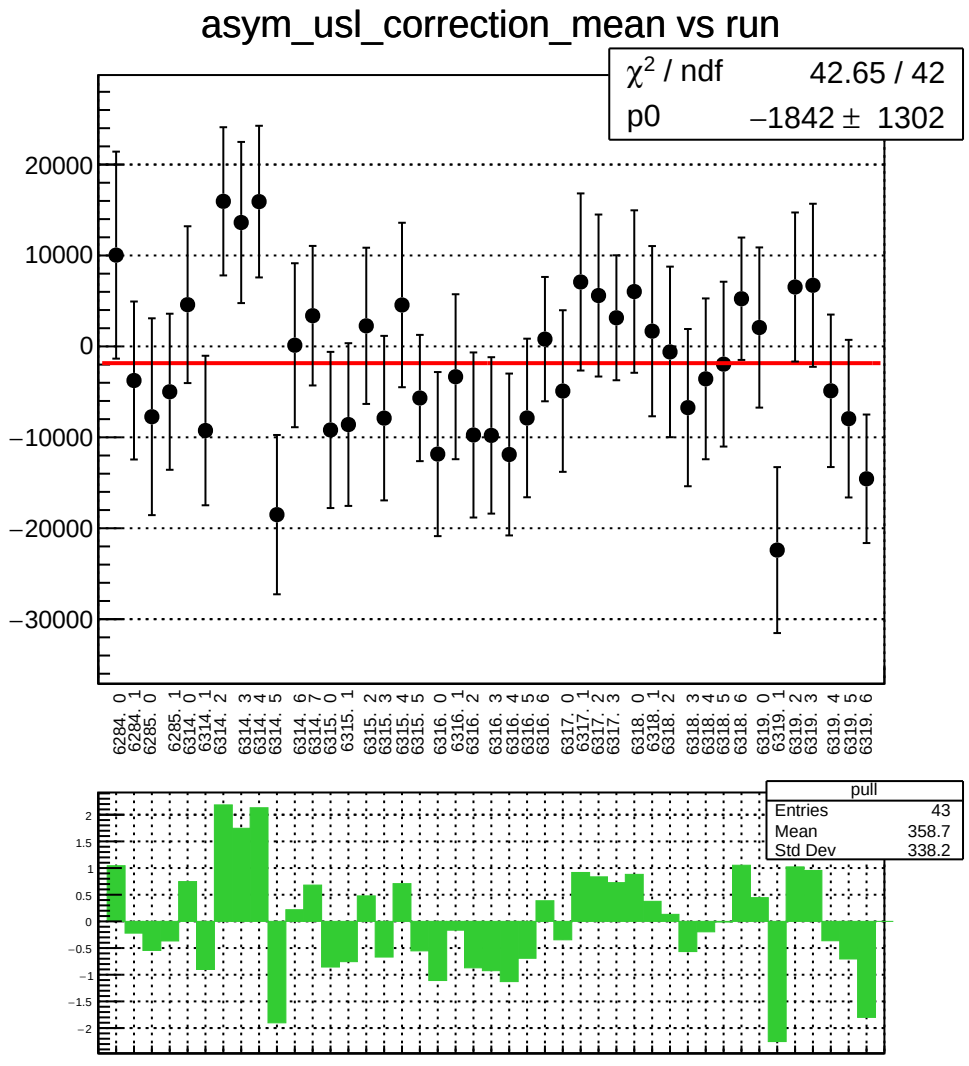

pull1D
Entries 43
Mean 0.02414
Std Dev 1.245
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

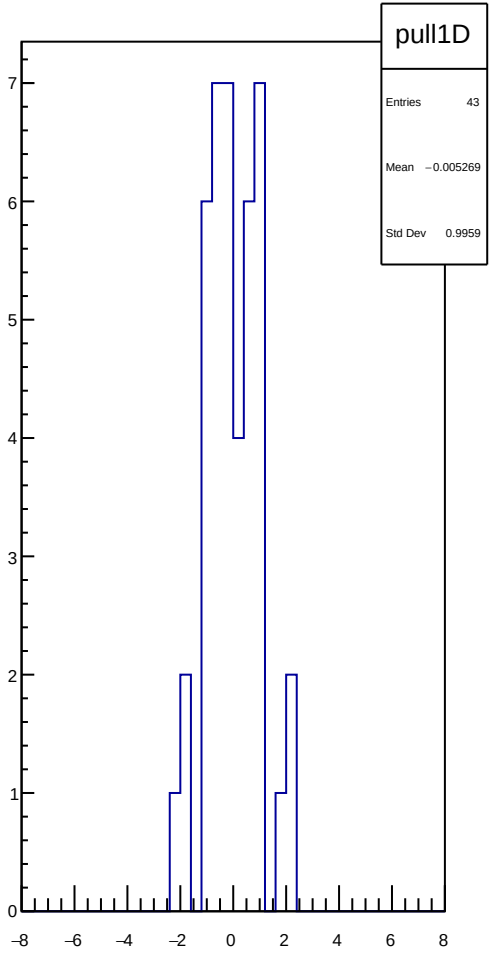

asym_us_dd_rms vs run
χ² / ndf 2579 / 42
p0 1514 ± 1.631
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

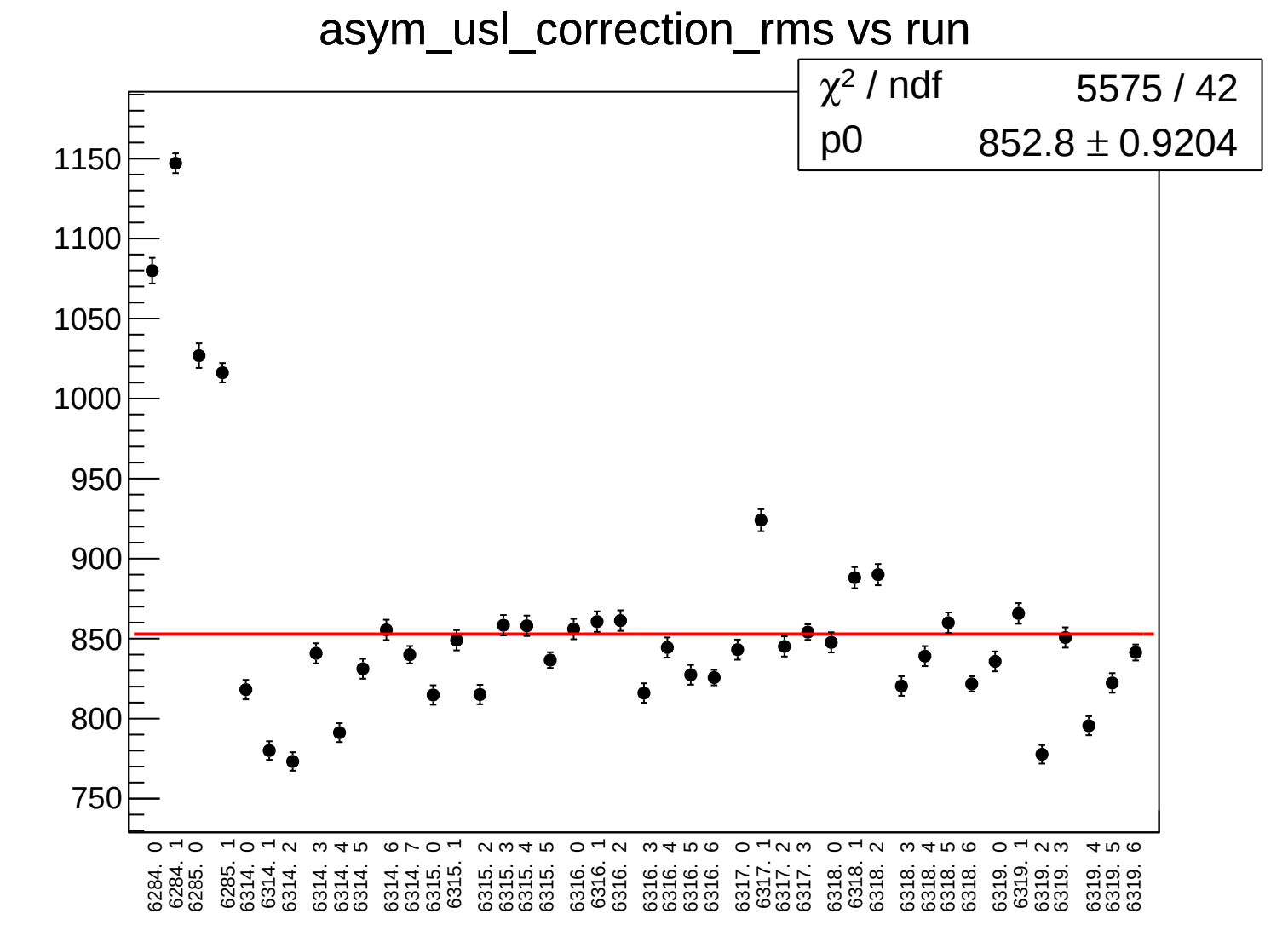

dit_asym_usl_mean vs run
χ² / ndf 56.11 / 42
p0 −2810 ± 1733
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −879.4
Std Dev 901.9
4
3
2
1
0
−1
−2

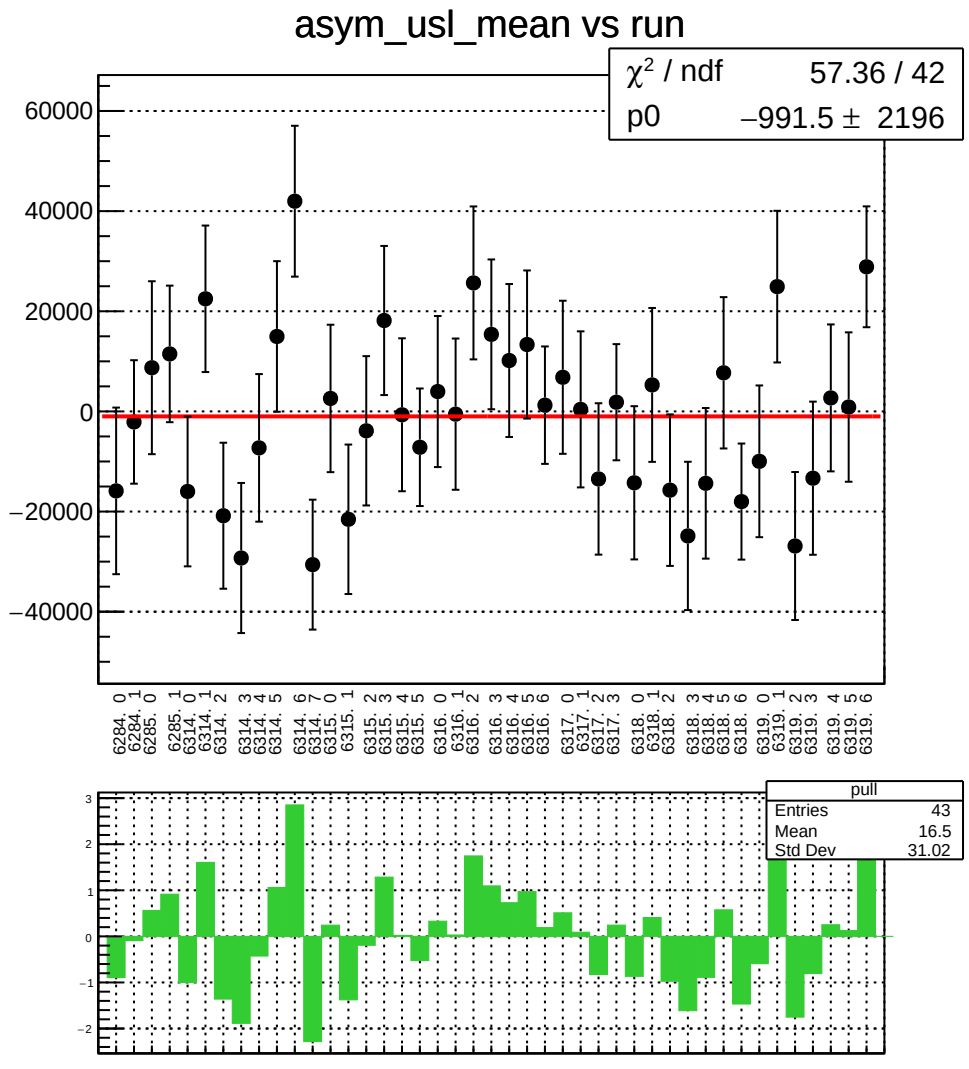

pull1D
Entries 43
Mean 0.001458
Std Dev 1.142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

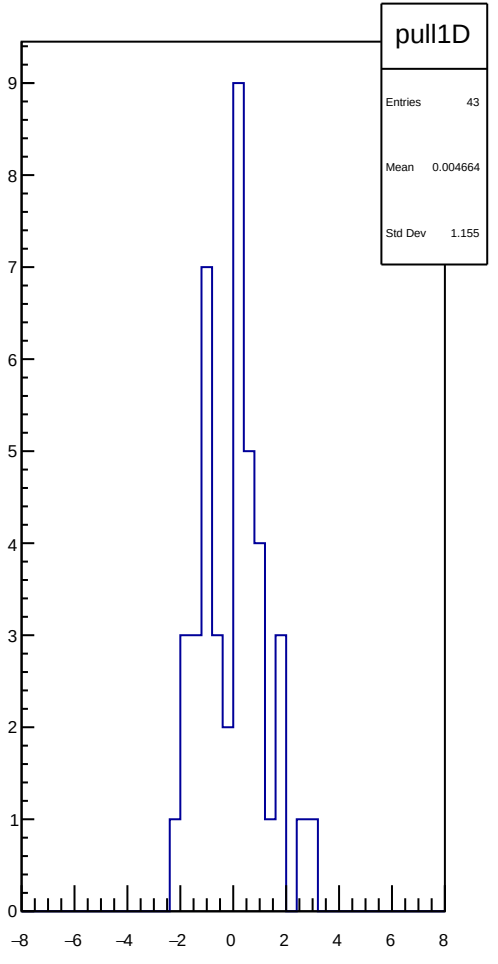

dit_asym_usl_rms vs run
χ² / ndf 83.91 / 42
p0 1139 ± 1.225
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

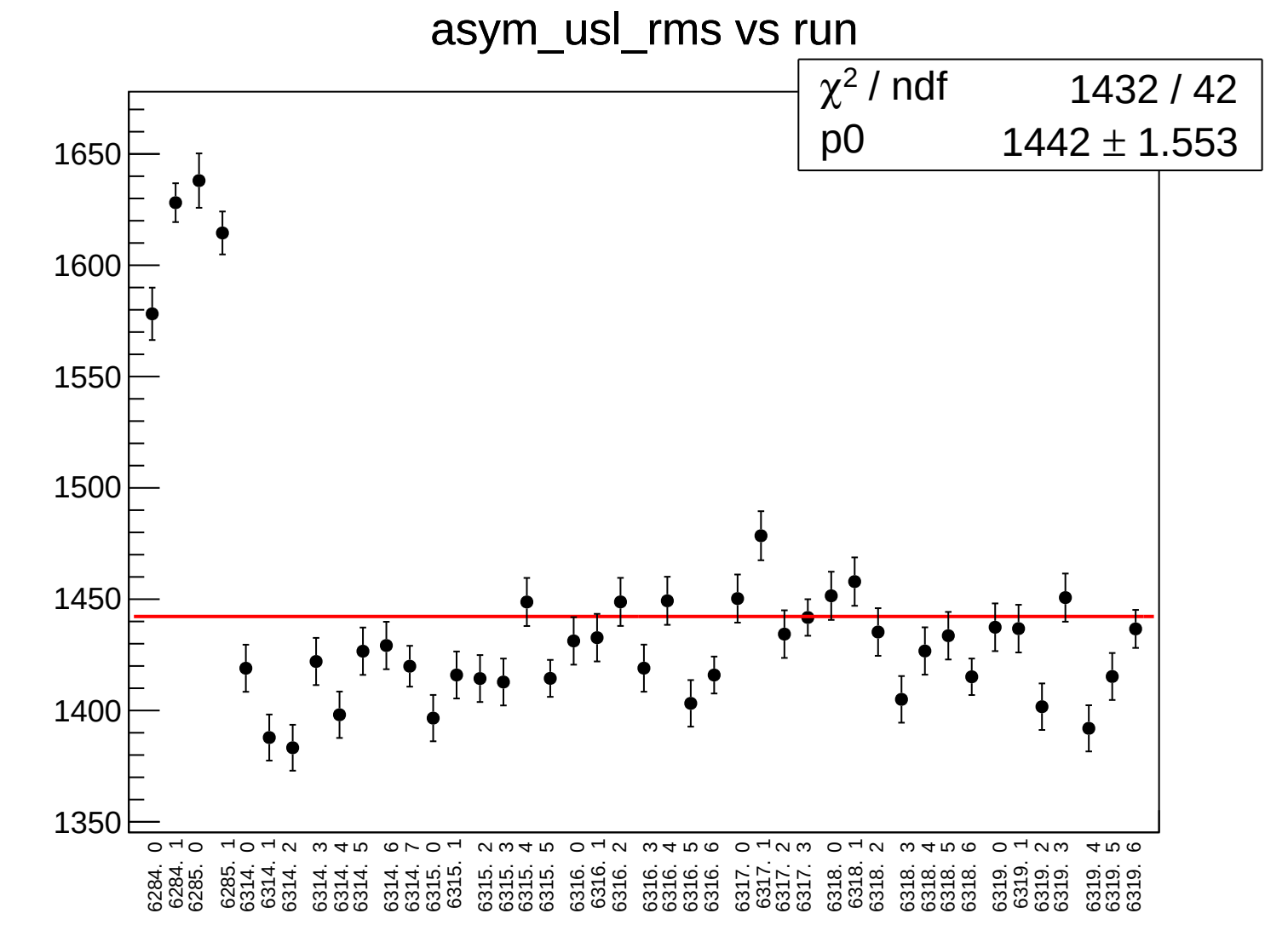

asym_usl_correction_mean vs run
χ² / ndf 42.65 / 42
p0 −1842 ± 1302
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 358.7
Std Dev 338.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

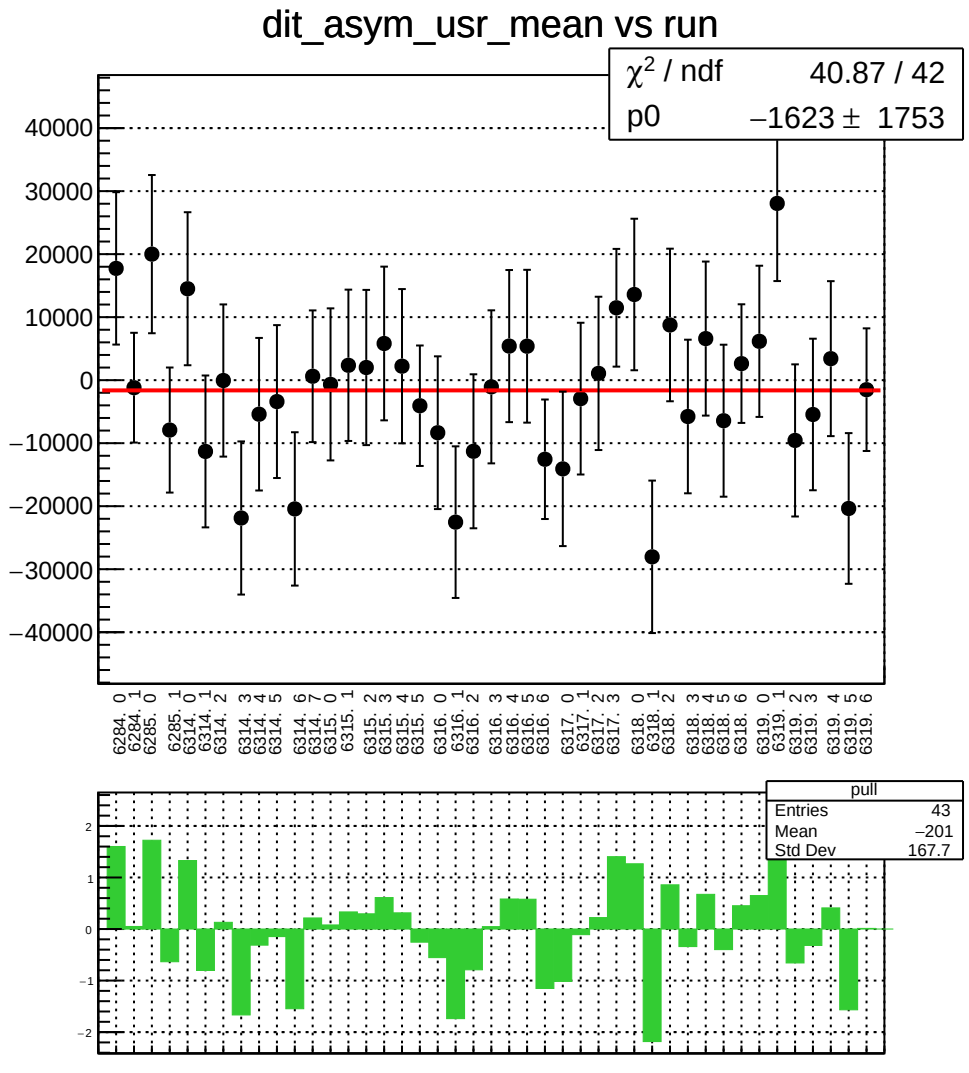

pull1D
Entries 43
Mean −0.005269
Std Dev 0.9959
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

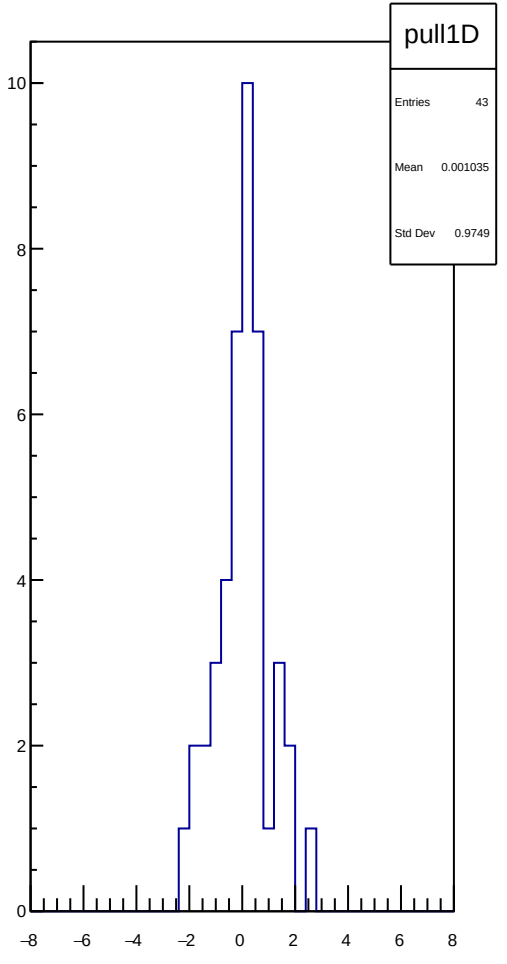

asym_usl_correction_rms vs run
χ² / ndf 5575 / 42
p0 852.8 ± 0.9204
1150
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

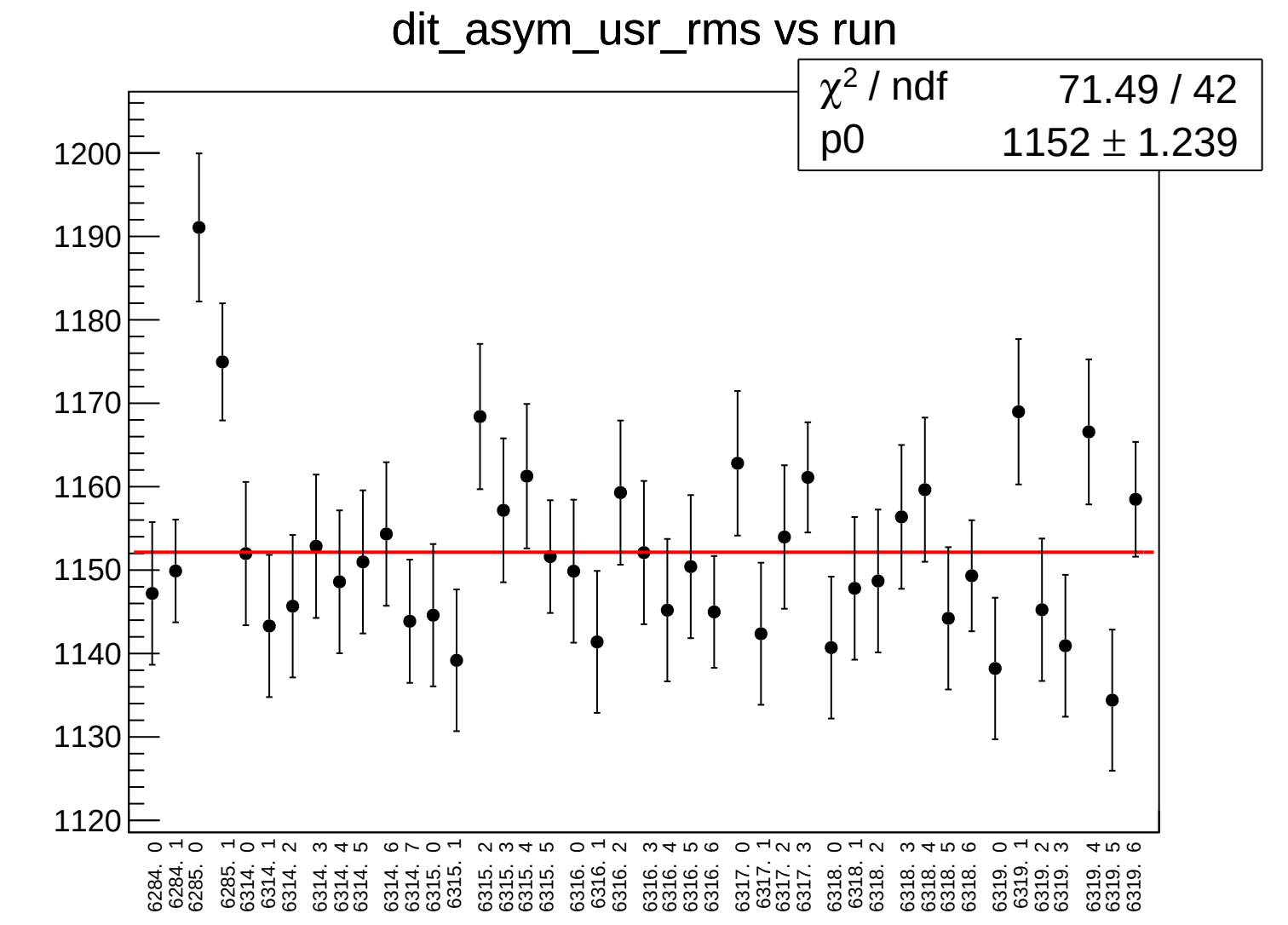

asym_usl_mean vs run
χ² / ndf 57.36 / 42
p0 −991.5 ± 2196
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 16.5
Std Dev 31.02
3
2
1
0
−1
−2

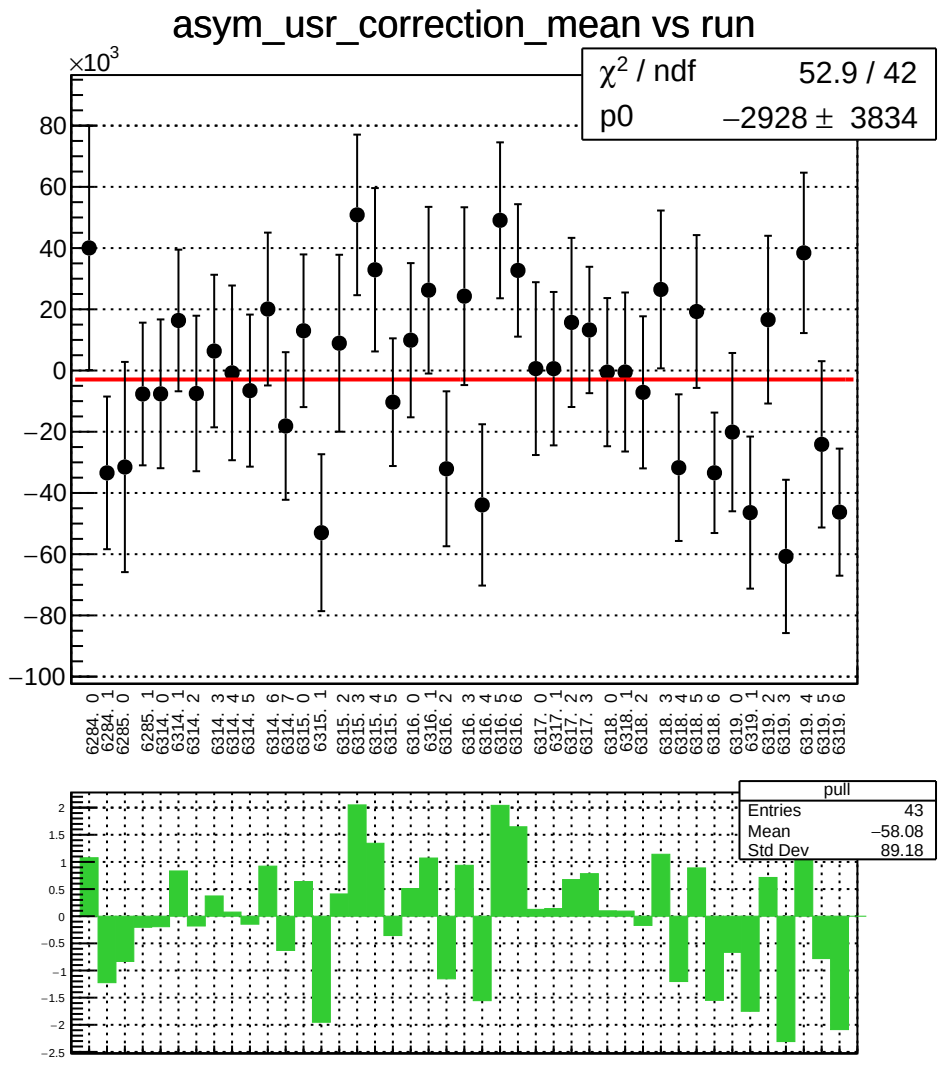

pull1D
Entries 43
Mean 0.004664
Std Dev 1.155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

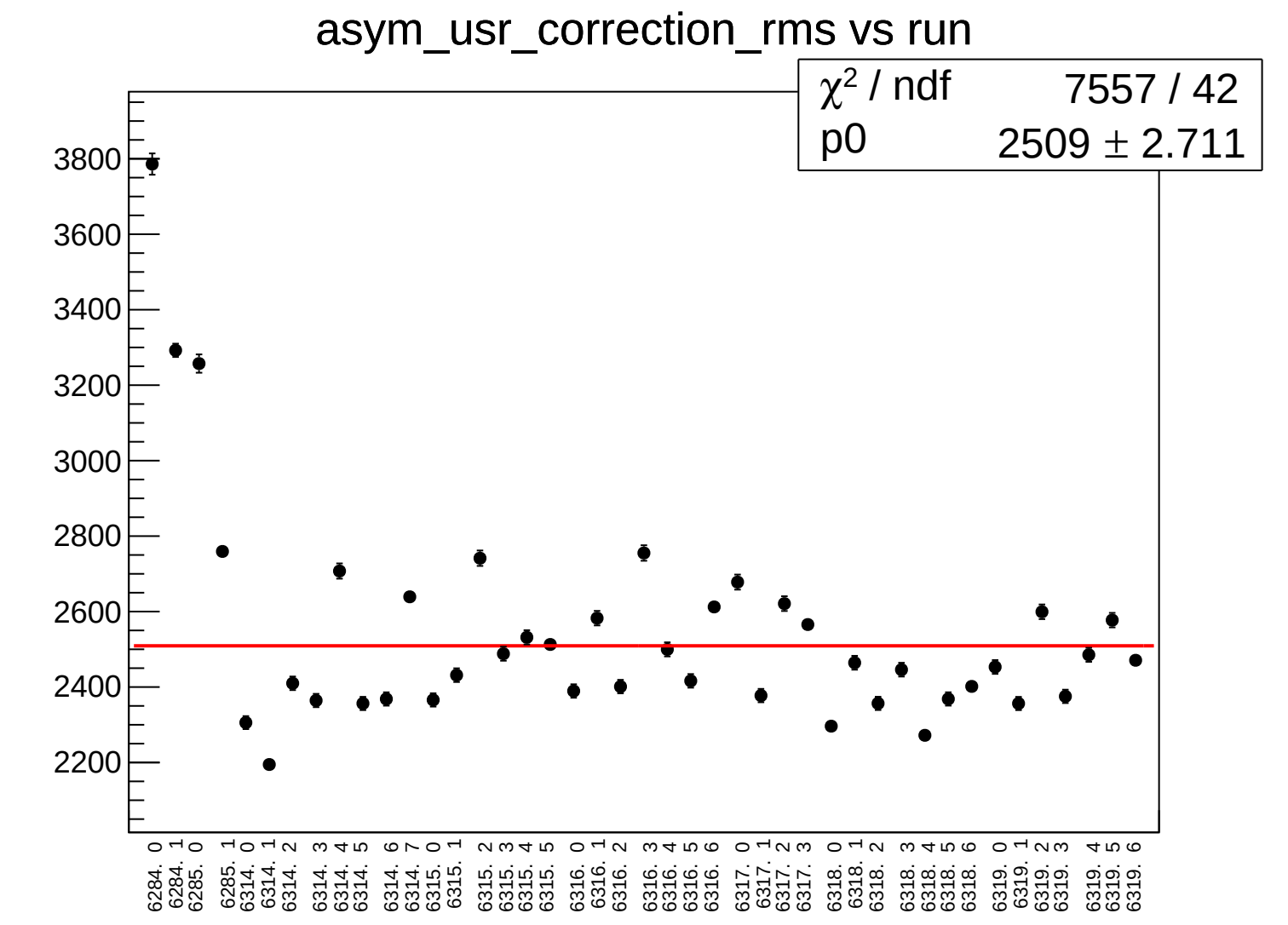

asym_usl_rms vs run
χ^2 / ndf 1432 / 42
p0 1442 ± 1.553
1650
1600
1550
1500
1450
1400
1350
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

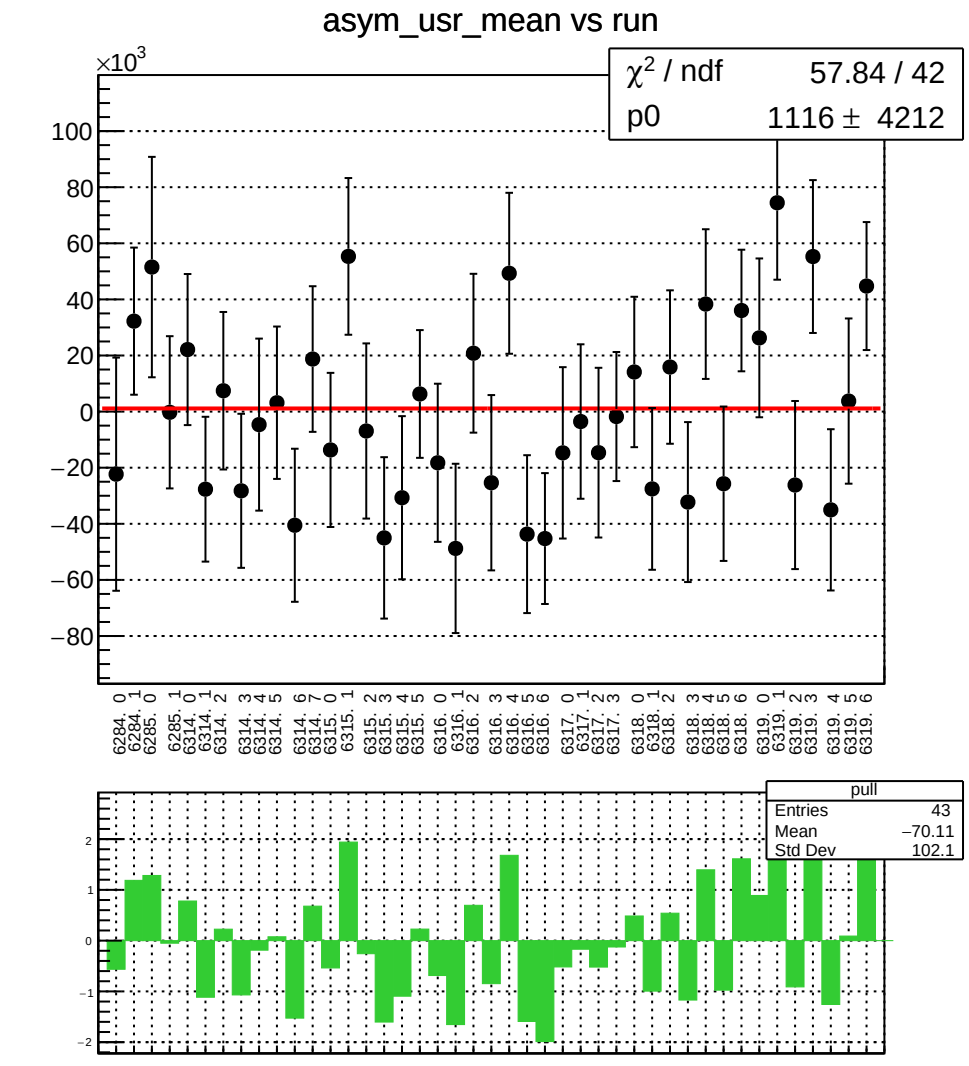

dit_asym_usr_mean vs run
χ^2 / ndf 40.87 / 42
p0 −1623 ± 1753
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −201
Std Dev 167.7
2
1
0
−1
−2

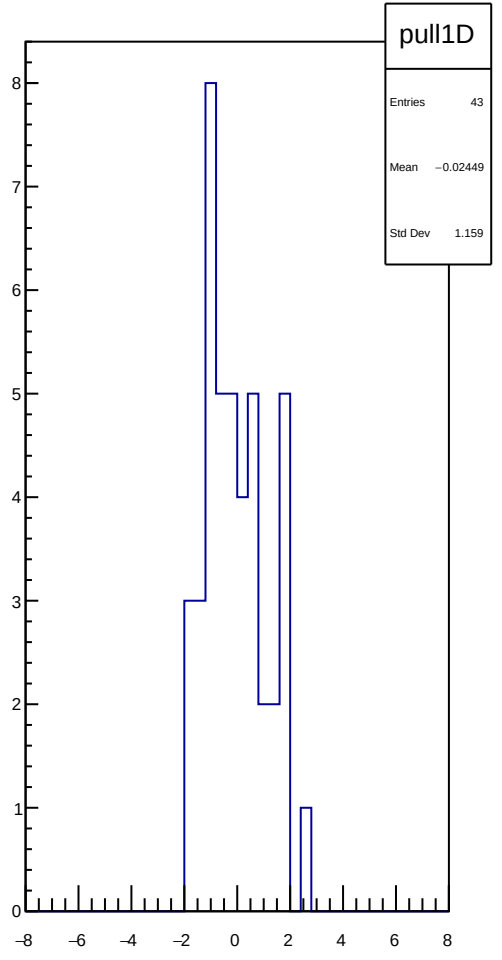

pull1D
Entries 43
Mean 0.001035
Std Dev 0.9749
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

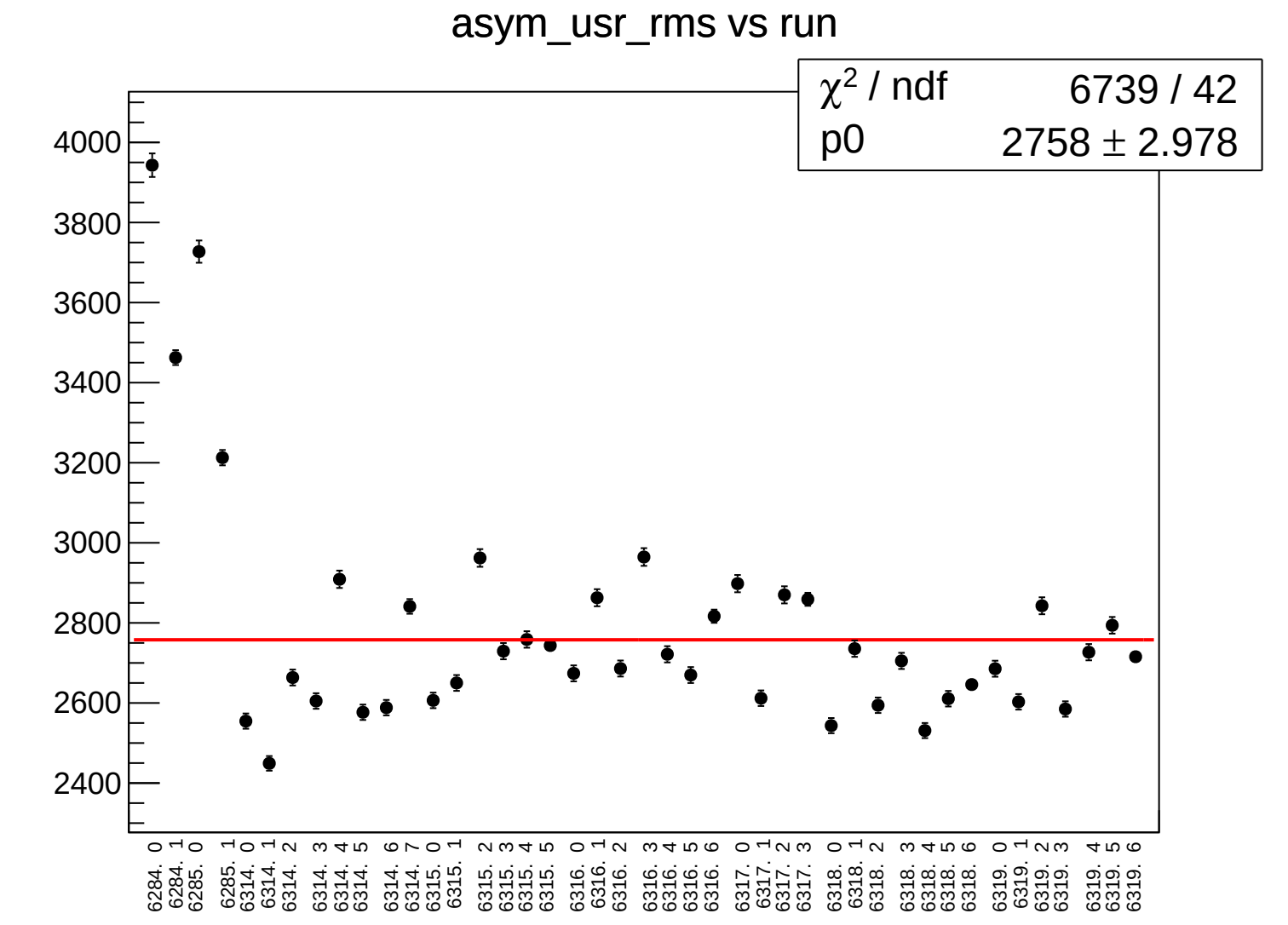

dit_asym_usr_rms vs run
χ² / ndf 71.49 / 42
p0 1152 ± 1.239
1200
1190
1180
1170
1160
1150
1140
1130
1120
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

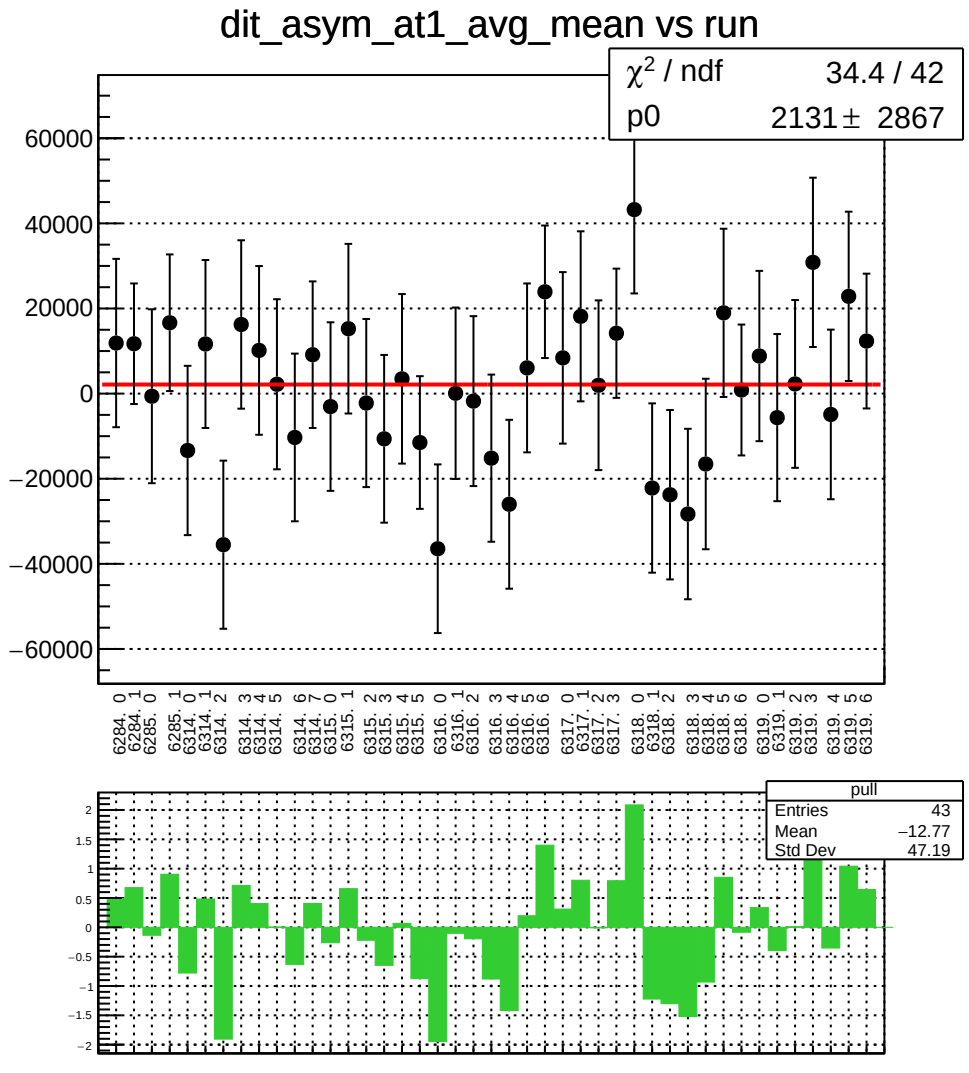

asym_usr_correction_mean vs run
×10^3
χ² / ndf 52.9 / 42
p0 −2928 ± 3834
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −58.08
Std Dev 89.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02868
Std Dev 1.109
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

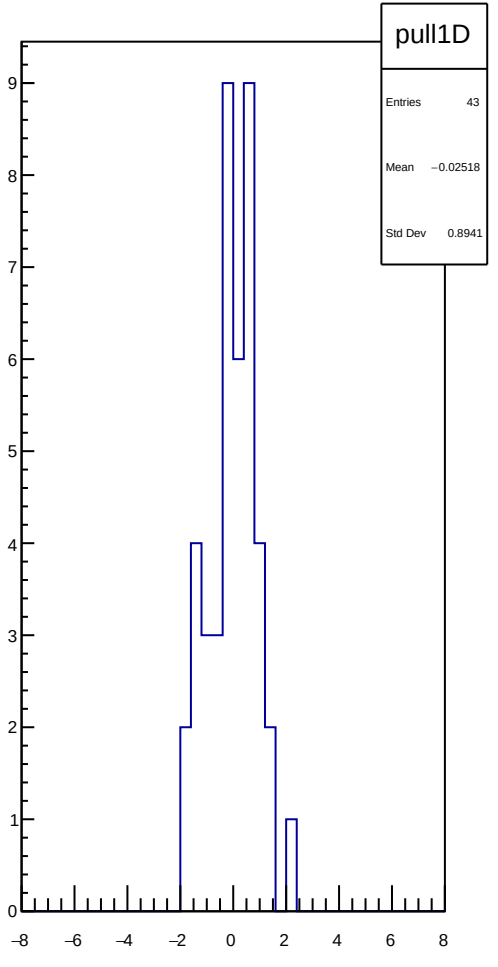

asym_usr_correction_rms vs run
χ² / ndf 7557 / 42
p0 2509 ± 2.711
3800
3600
3400
3200
3000
2800
2600
2400
2200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

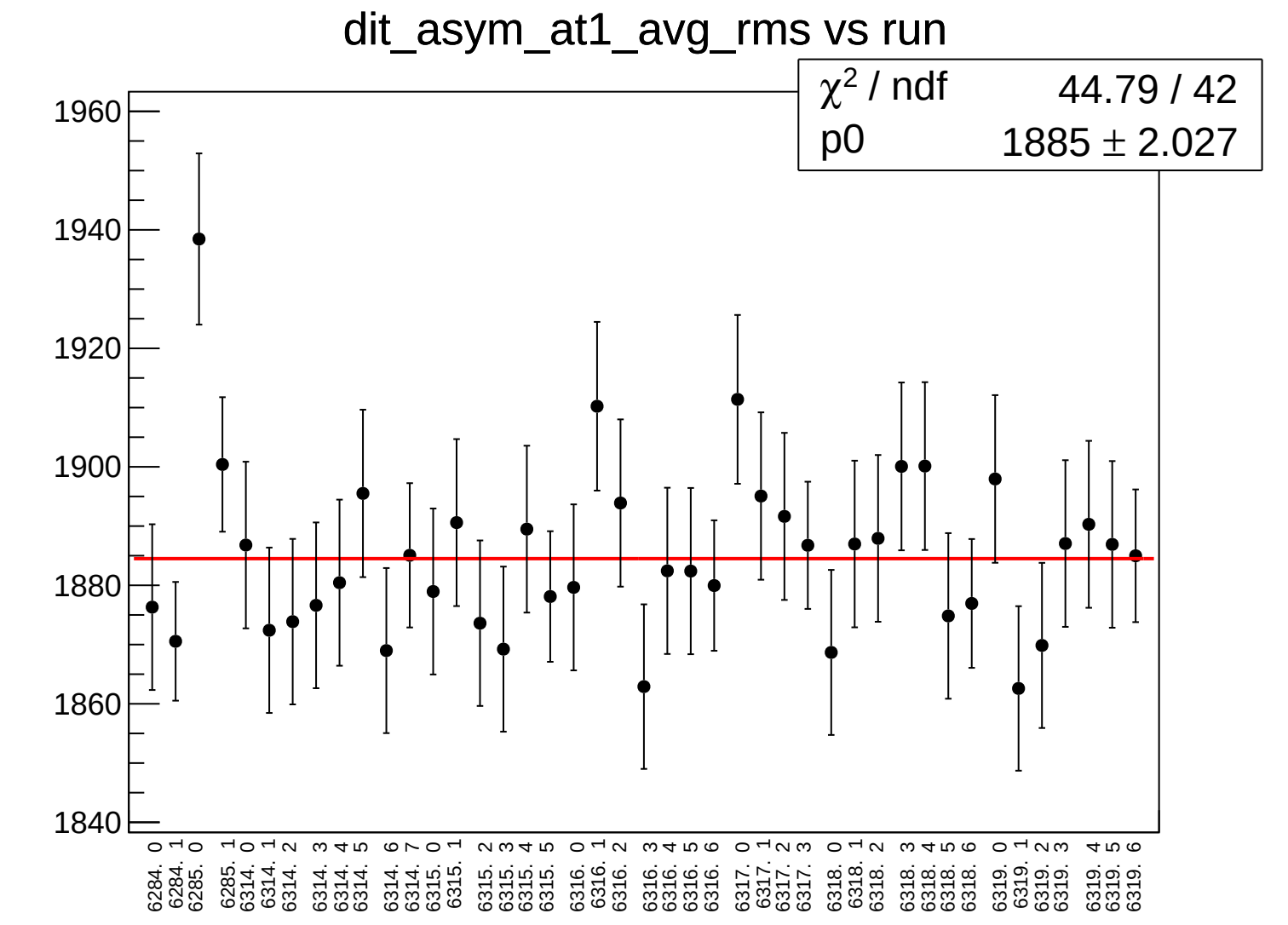

asym_usr_mean vs run
×10^3
χ² / ndf 57.84 / 42
p0 1116 ± 4212
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −70.11
Std Dev 102.1
2
1
0
−1
−2

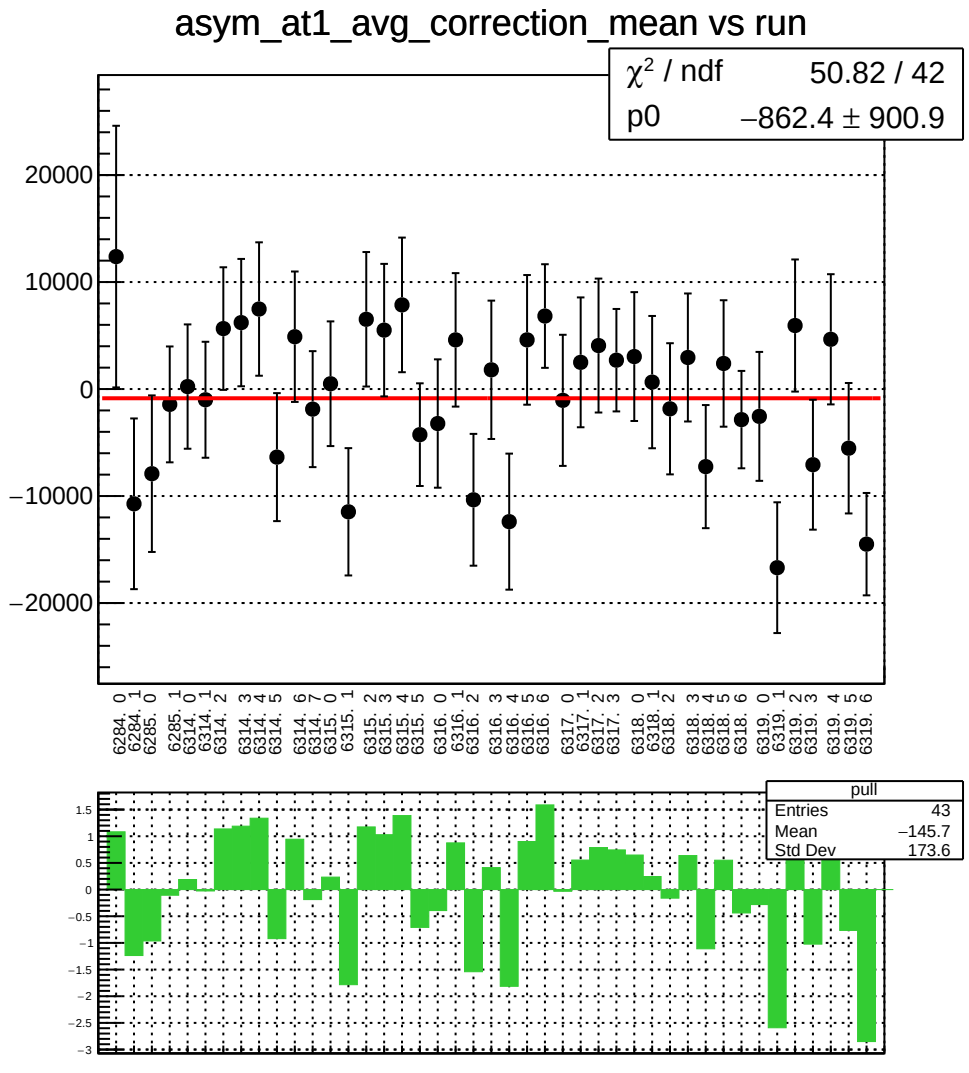

pull1D
Entries 43
Mean −0.02449
Std Dev 1.159
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

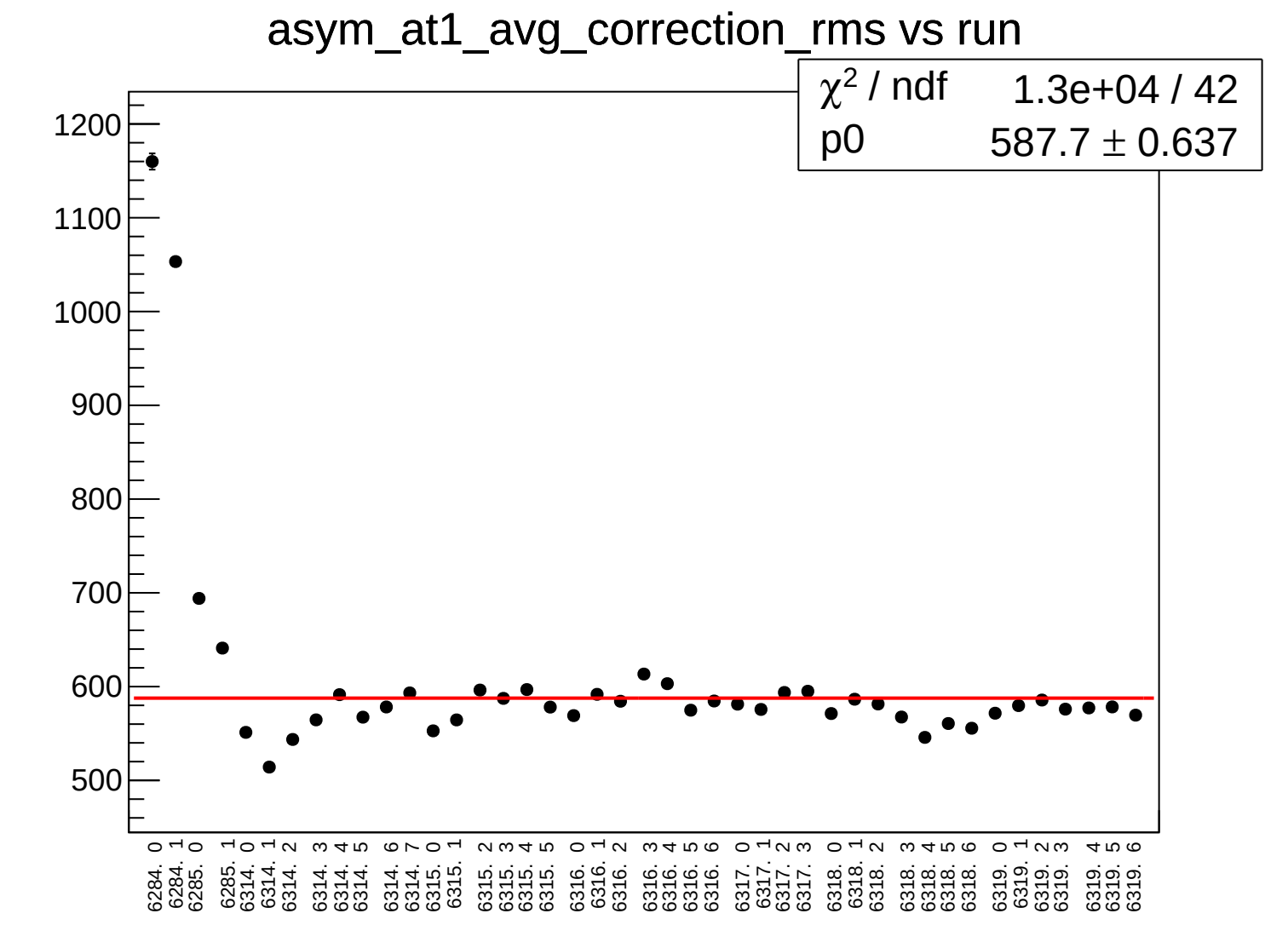

asym_usr_rms vs run
χ² / ndf 6739 / 42
p0 2758 ± 2.978
4000
3800
3600
3400
3200
3000
2800
2600
2400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

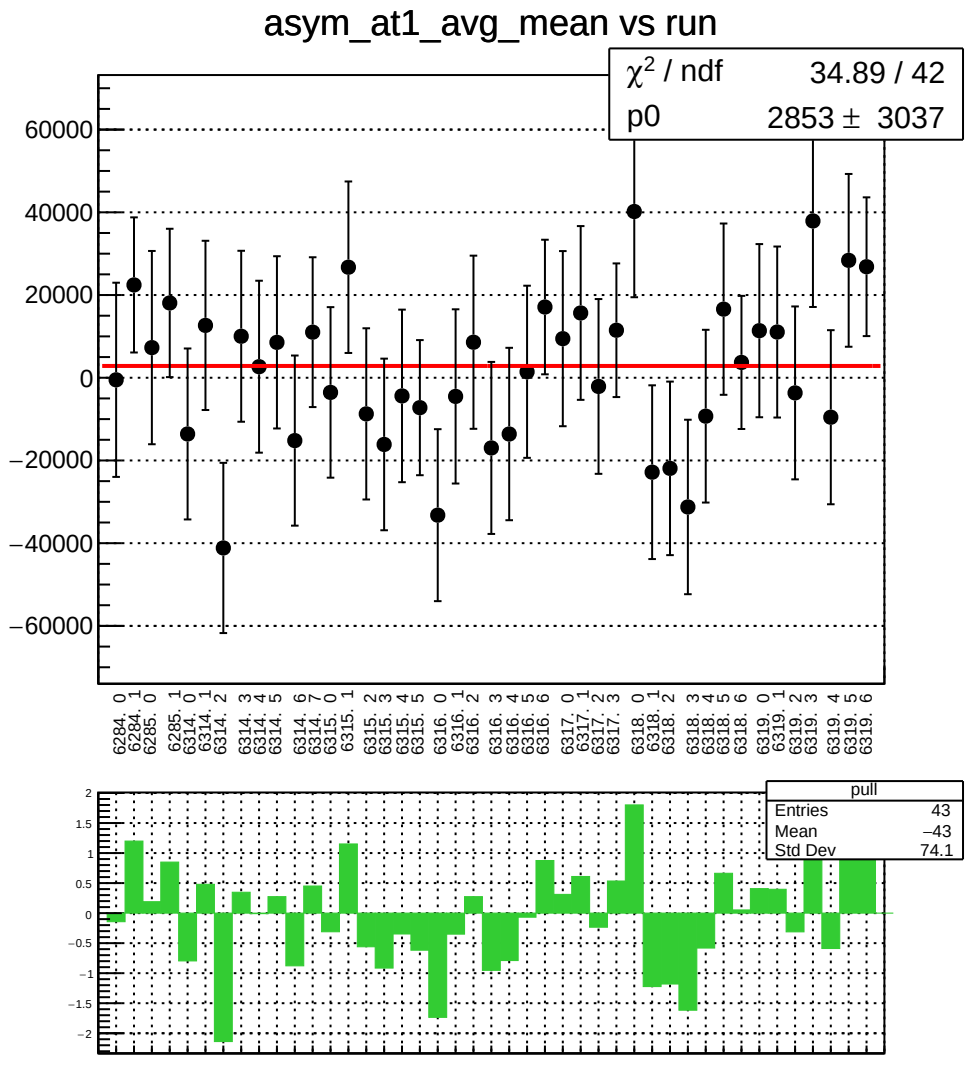

dit_asym_at1_avg_mean vs run
χ² / ndf 34.4 / 42
p0 2131 ± 2867
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −12.77
Std Dev 47.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

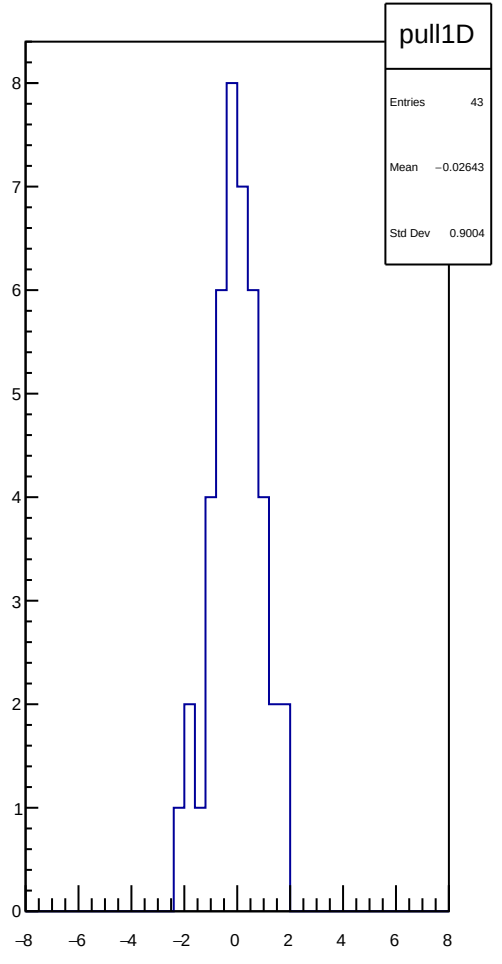

pull1D
Entries 43
Mean −0.02518
Std Dev 0.8941
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

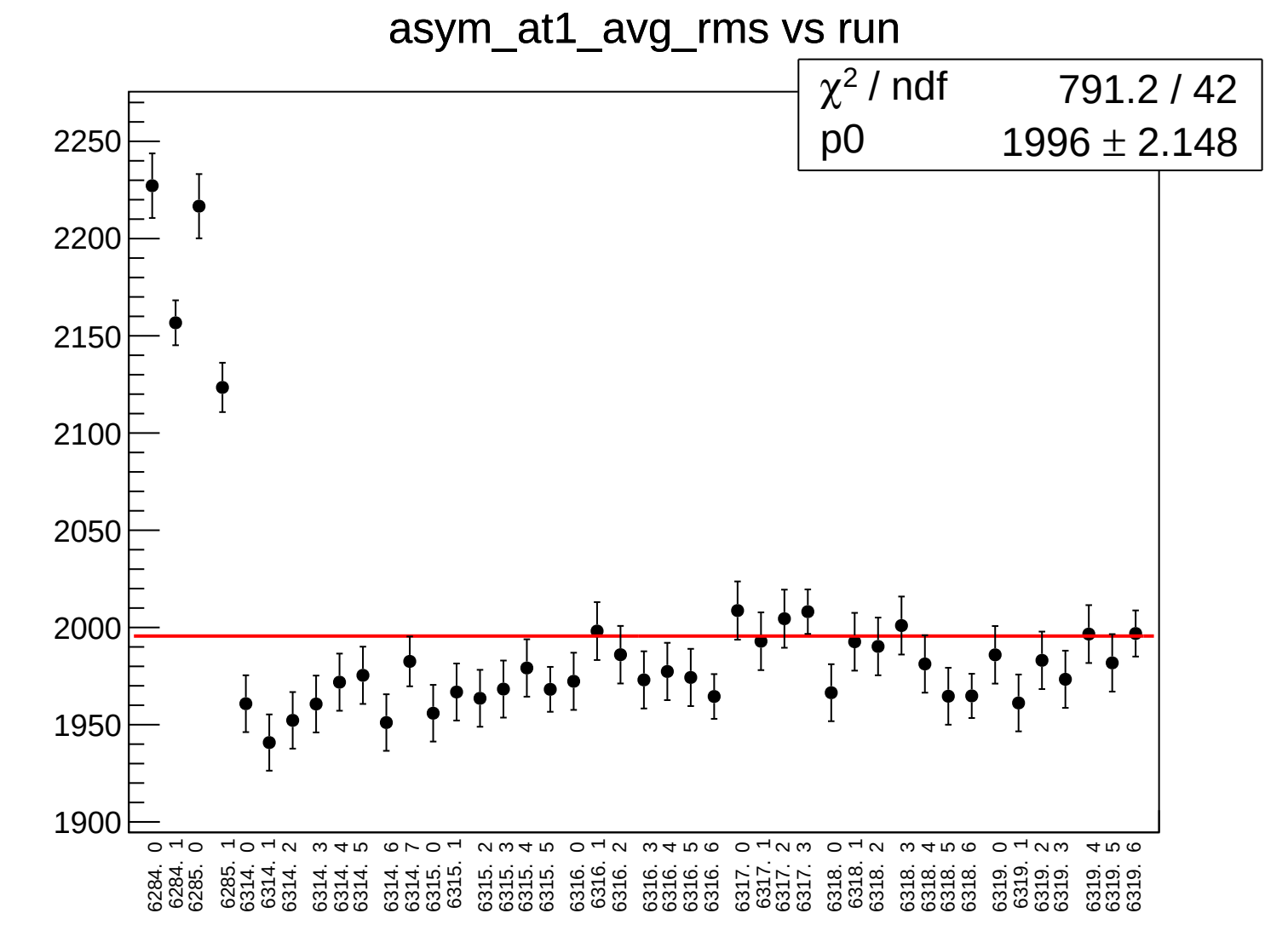

dit_asym_at1_avg_rms vs run
χ² / ndf 44.79 / 42
p0 1885 ± 2.027
1960
1940
1920
1900
1880
1860
1840
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

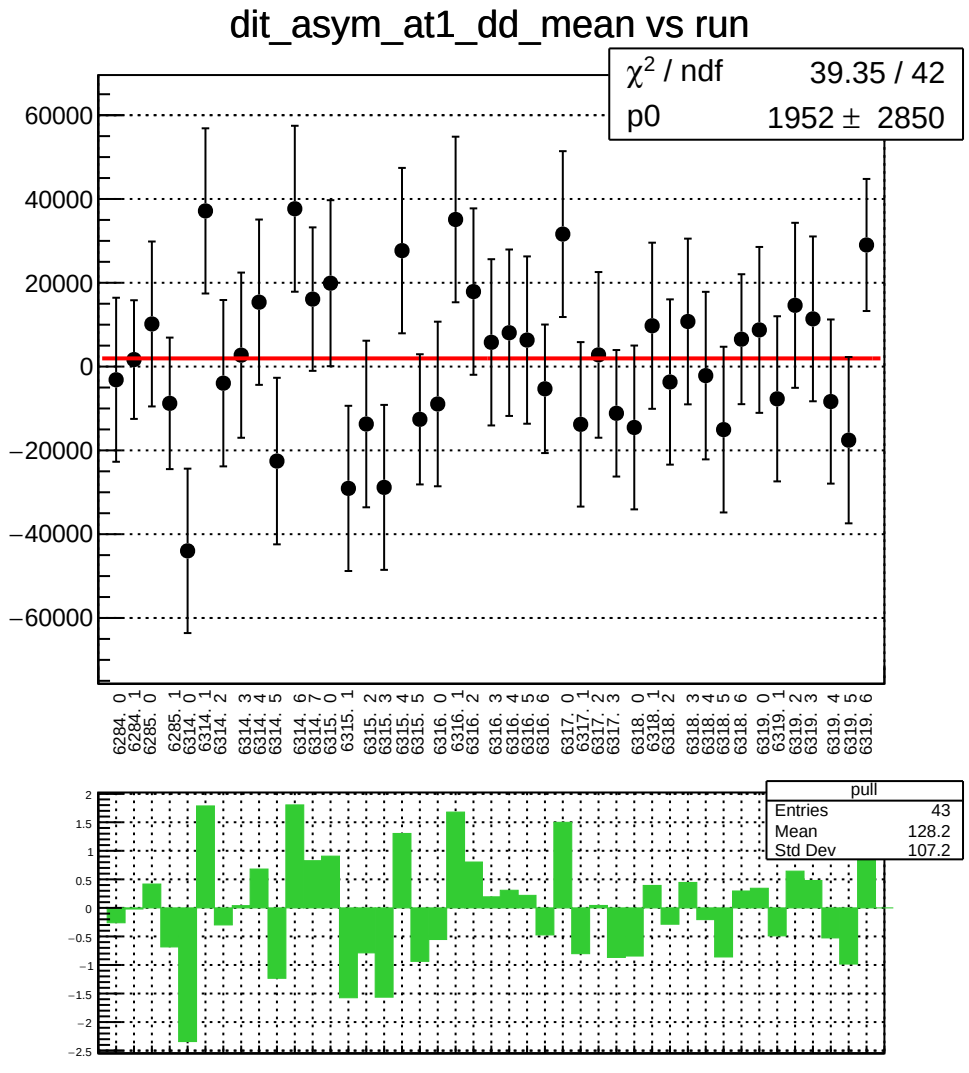

asym_at1_avg_correction_mean vs run
χ² / ndf 50.82 / 42
p0 −862.4 ± 900.9
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −145.7
Std Dev 173.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.01669
Std Dev 1.087
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

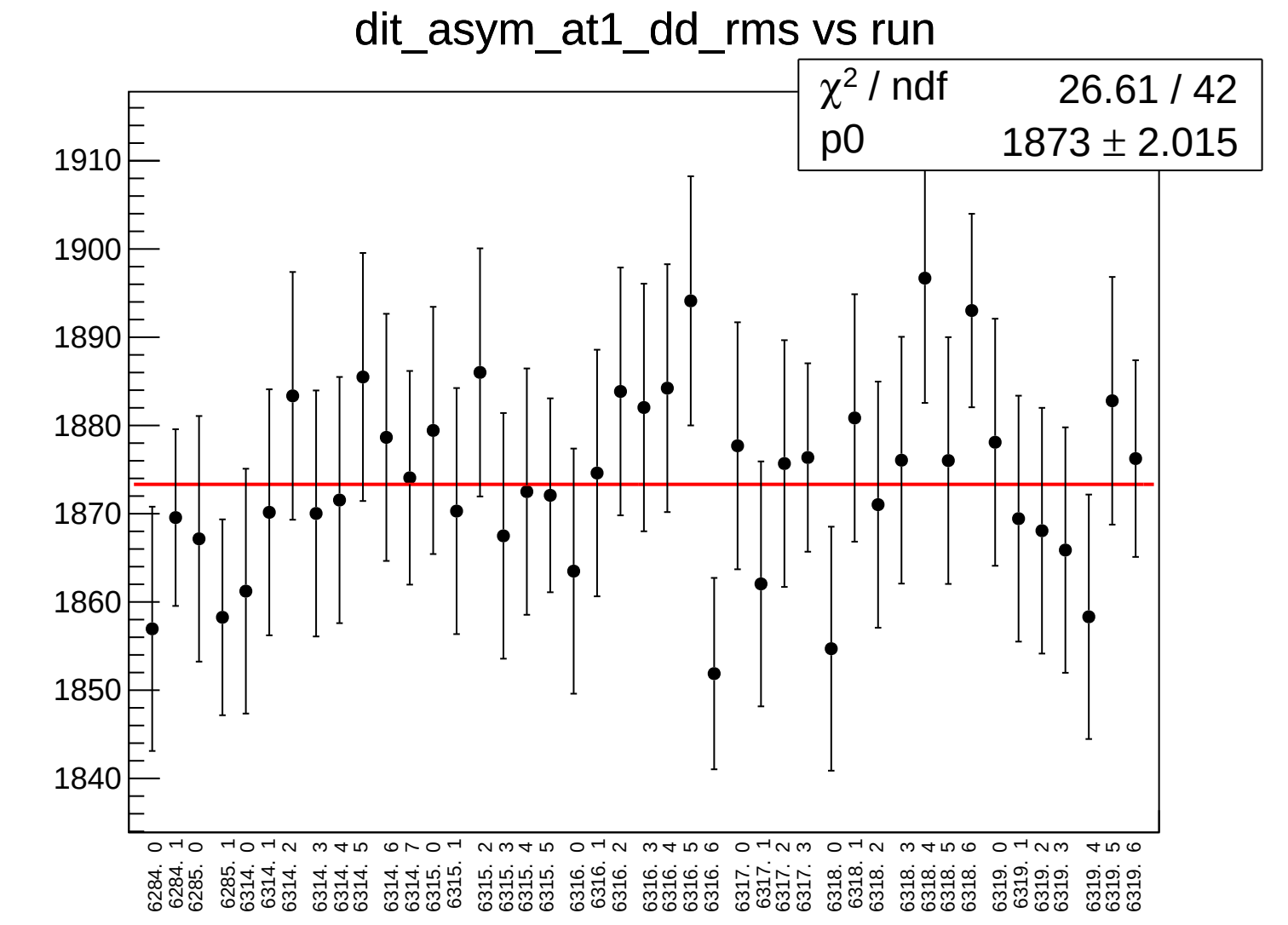

asym_at1_avg_correction_rms vs run
χ² / ndf 1.3e+04 / 42
p0 587.7 ± 0.637
1200
1100
1000
900
800
700
600
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

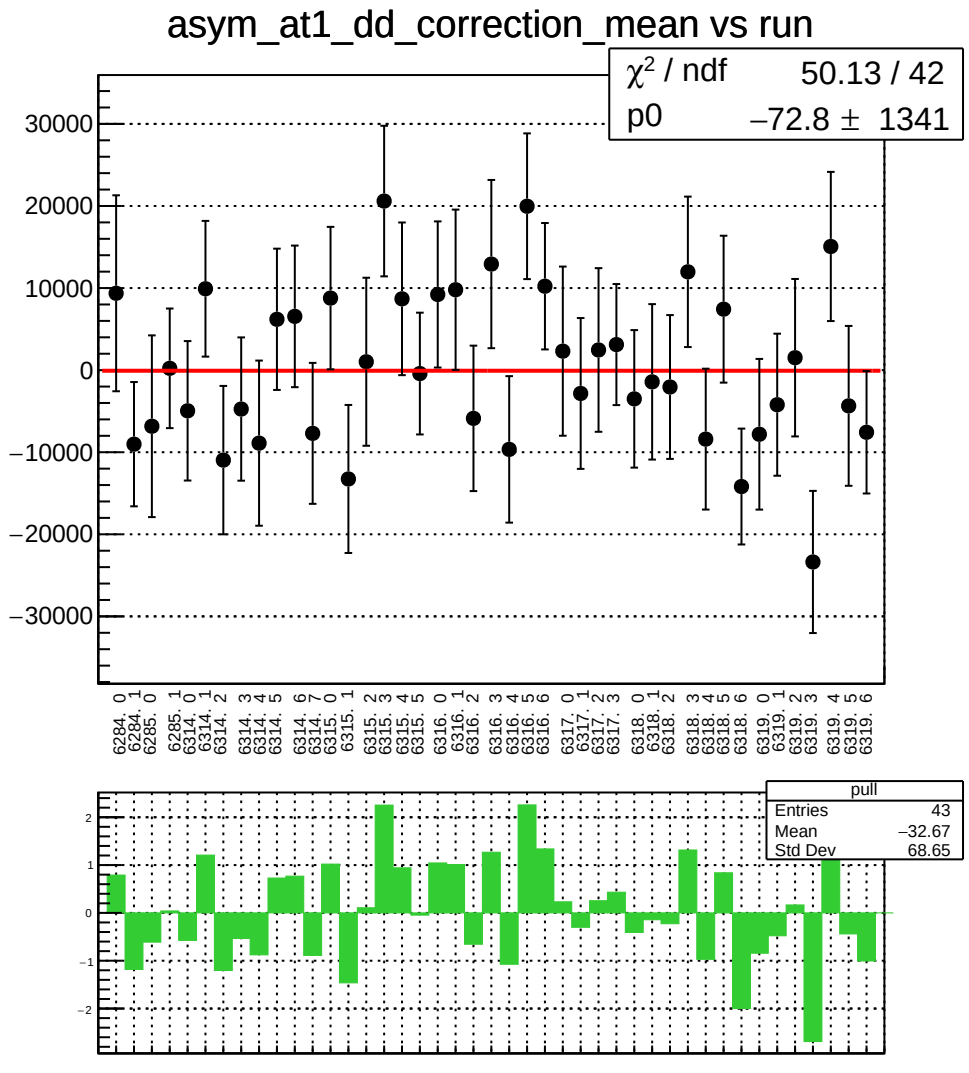

asym_at1_avg_mean vs run
χ² / ndf 34.89 / 42
p0 2853 ± 3037
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −43
Std Dev 74.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

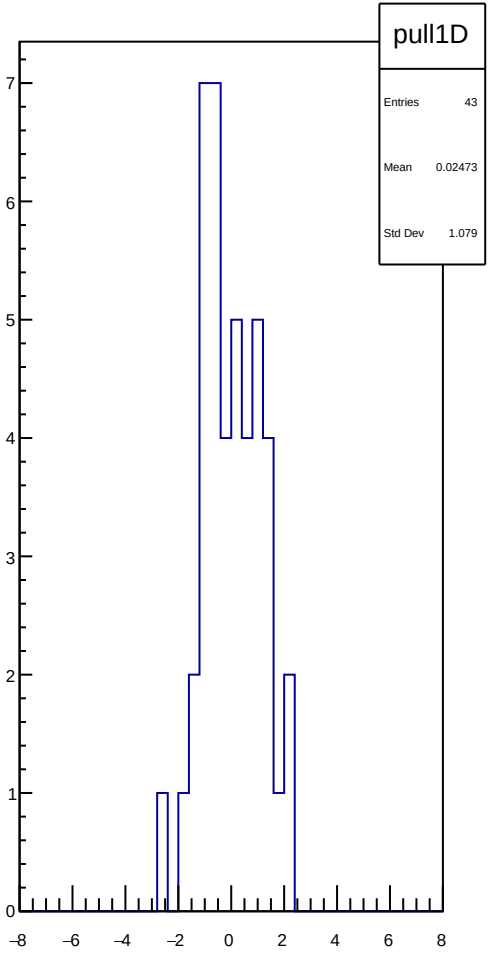

pull1D
Entries 43
Mean −0.02643
Std Dev 0.9004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

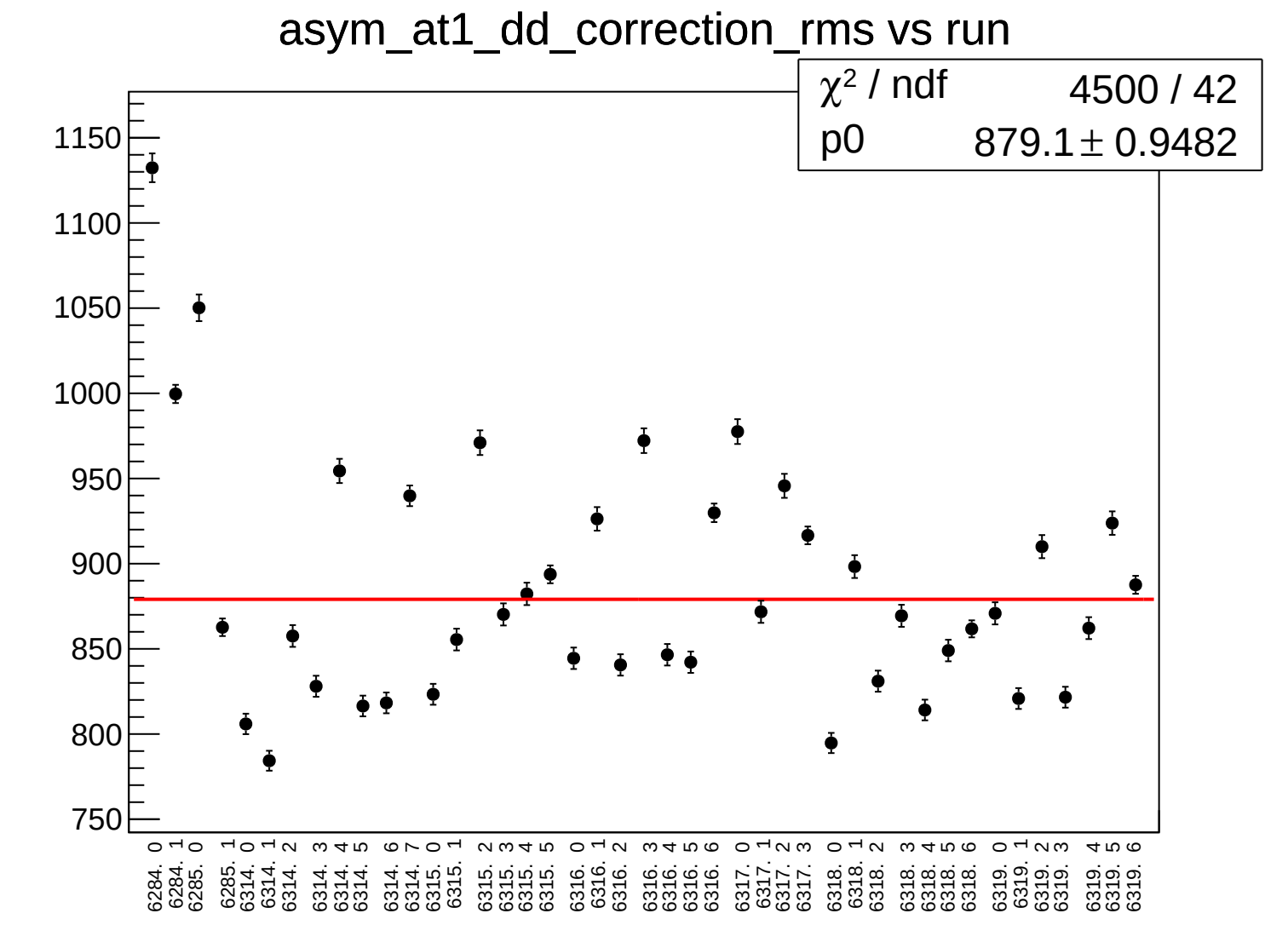

asym_at1_avg_rms vs run
χ^2 / ndf 791.2 / 42
p0 1996 ± 2.148
2250
2200
2150
2100
2050
2000
1950
1900
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

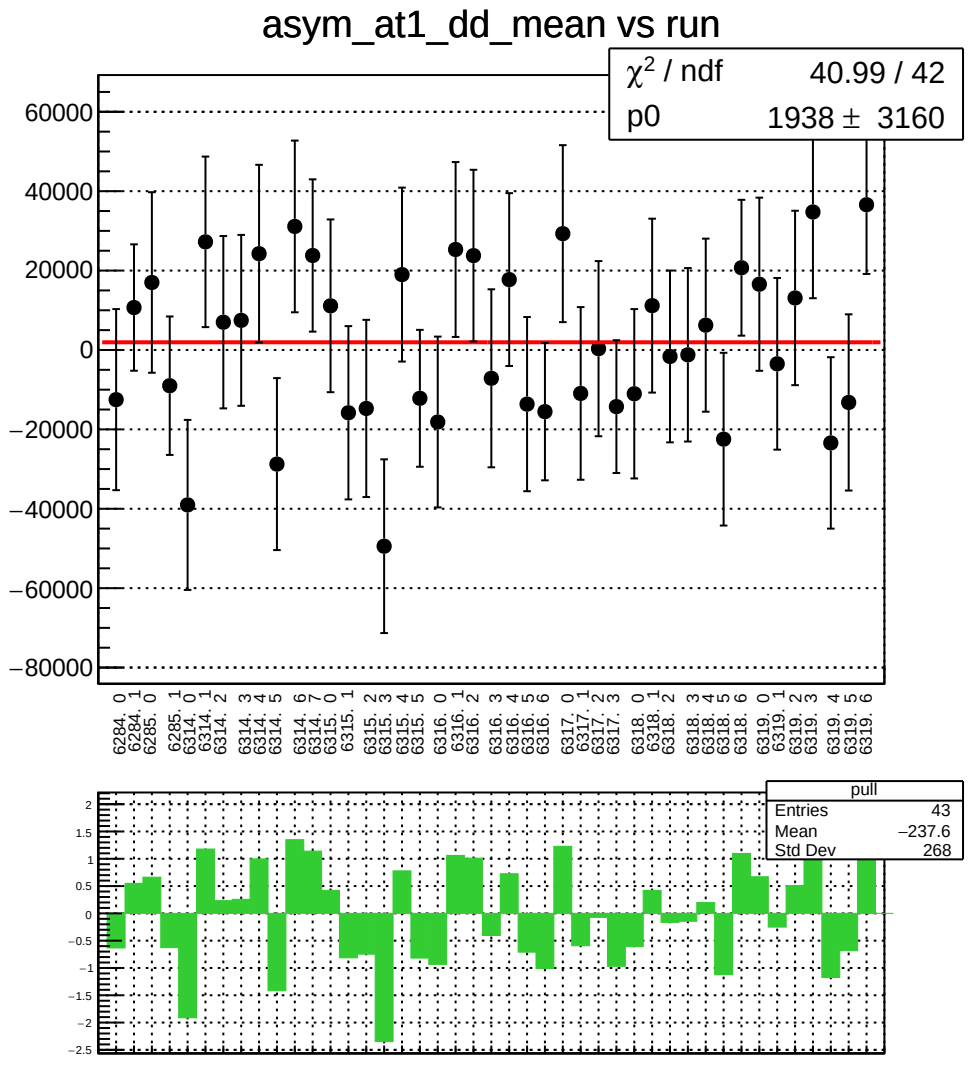

dit_asym_at1_dd_mean vs run
χ² / ndf 39.35 / 42
p0 1952 ± 2850
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 128.2
Std Dev 107.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.005543
Std Dev 0.9566
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

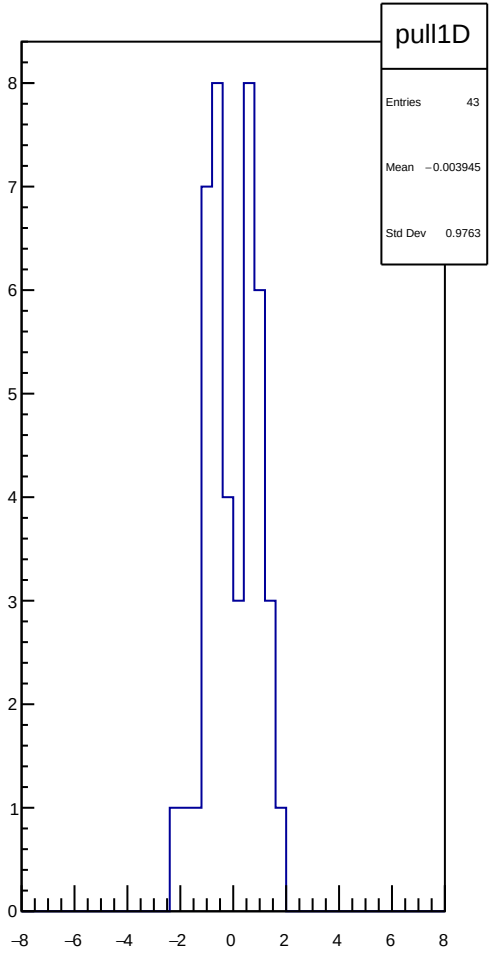

dit_asym_at1_dd_rms vs run
χ² / ndf 26.61 / 42
p0 1873 ± 2.015
1910
1900
1890
1880
1870
1860
1850
1840
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

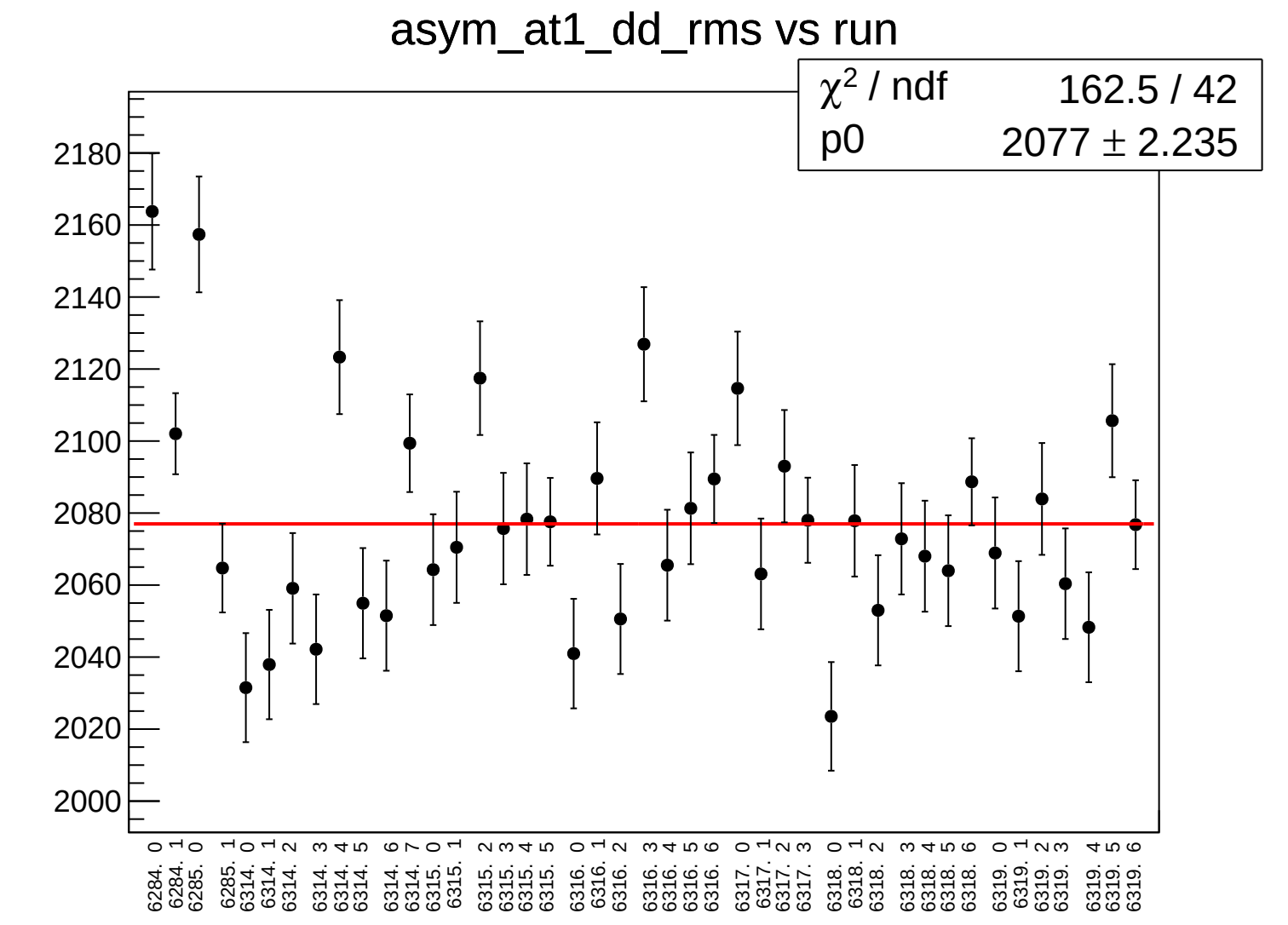

asym_at1_dd_correction_mean vs run
χ² / ndf 50.13 / 42
p0 −72.8 ± 1341
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −32.67
Std Dev 68.65
2
1
0
−1
−2

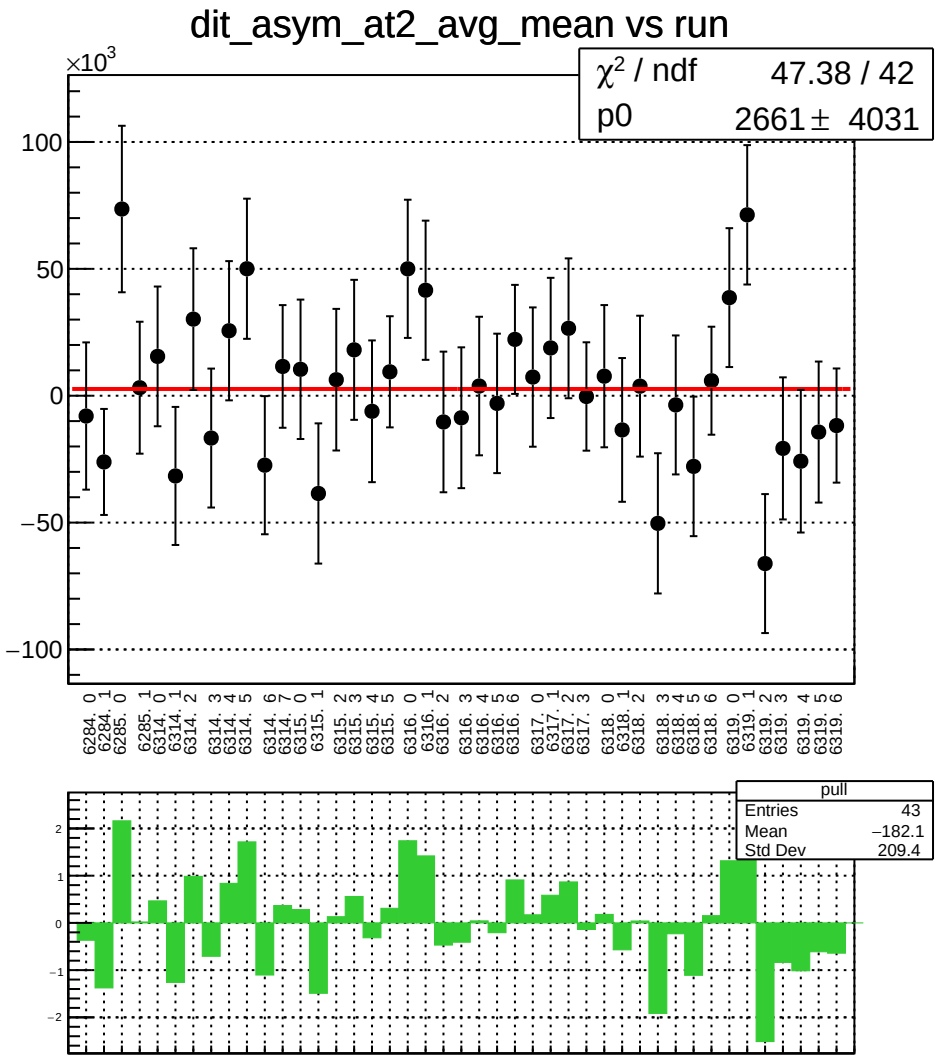

pull1D
Entries 43
Mean 0.02473
Std Dev 1.079
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

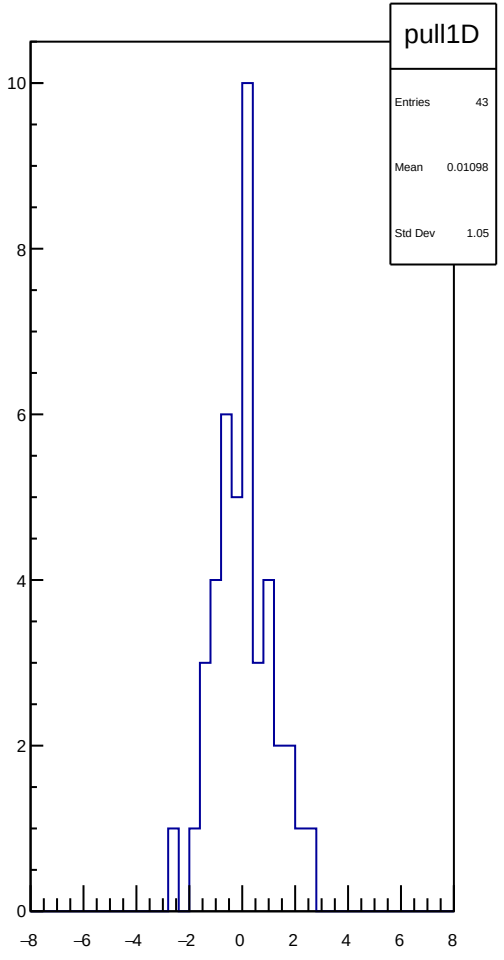

asym_at1_dd_correction_rms vs run
χ² / ndf 4500 / 42
p0 879.1 ± 0.9482
1150
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

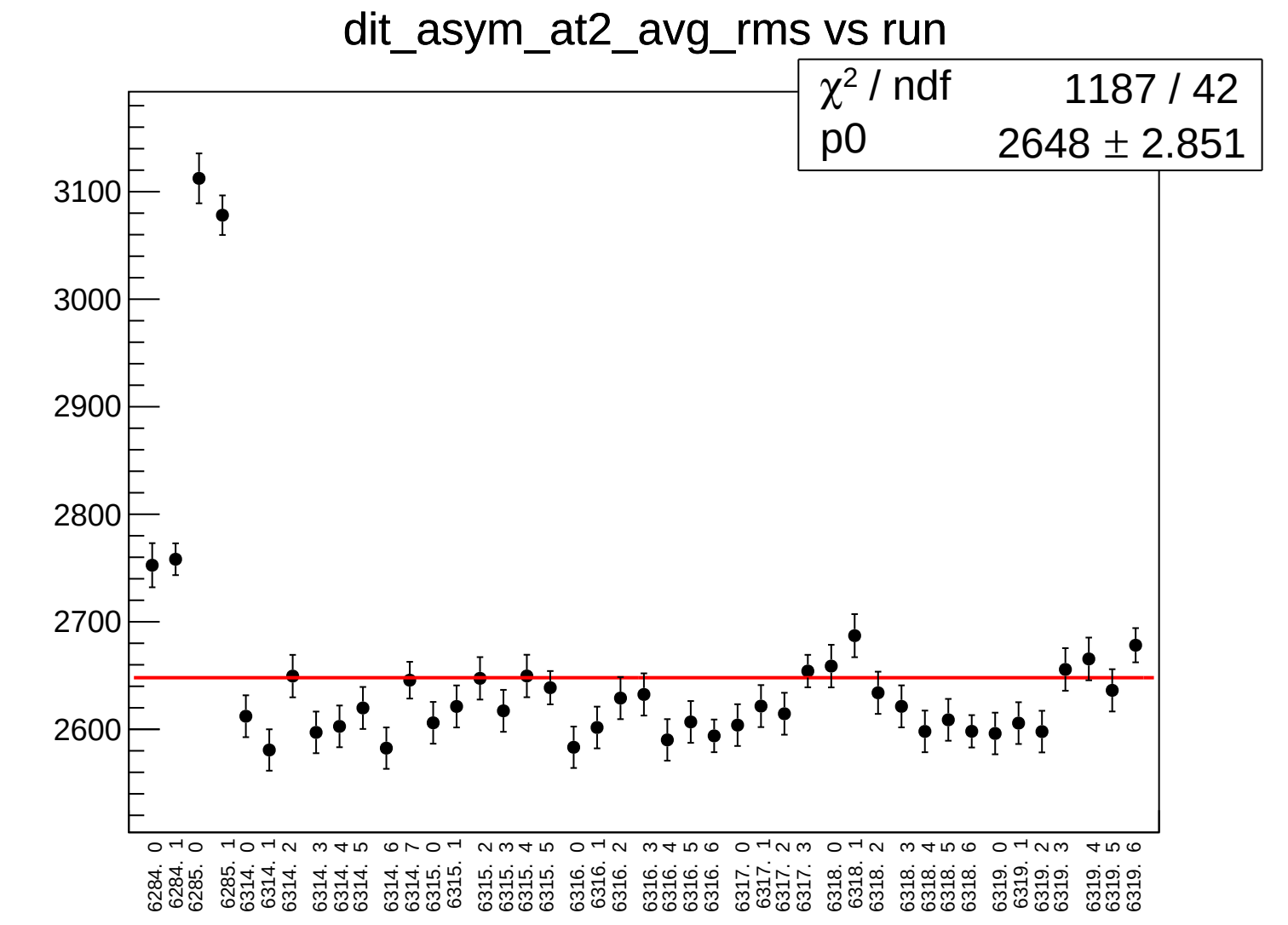

asym_at1_dd_mean vs run
χ² / ndf 40.99 / 42
p0 1938 ± 3160
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −237.6
Std Dev 268
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

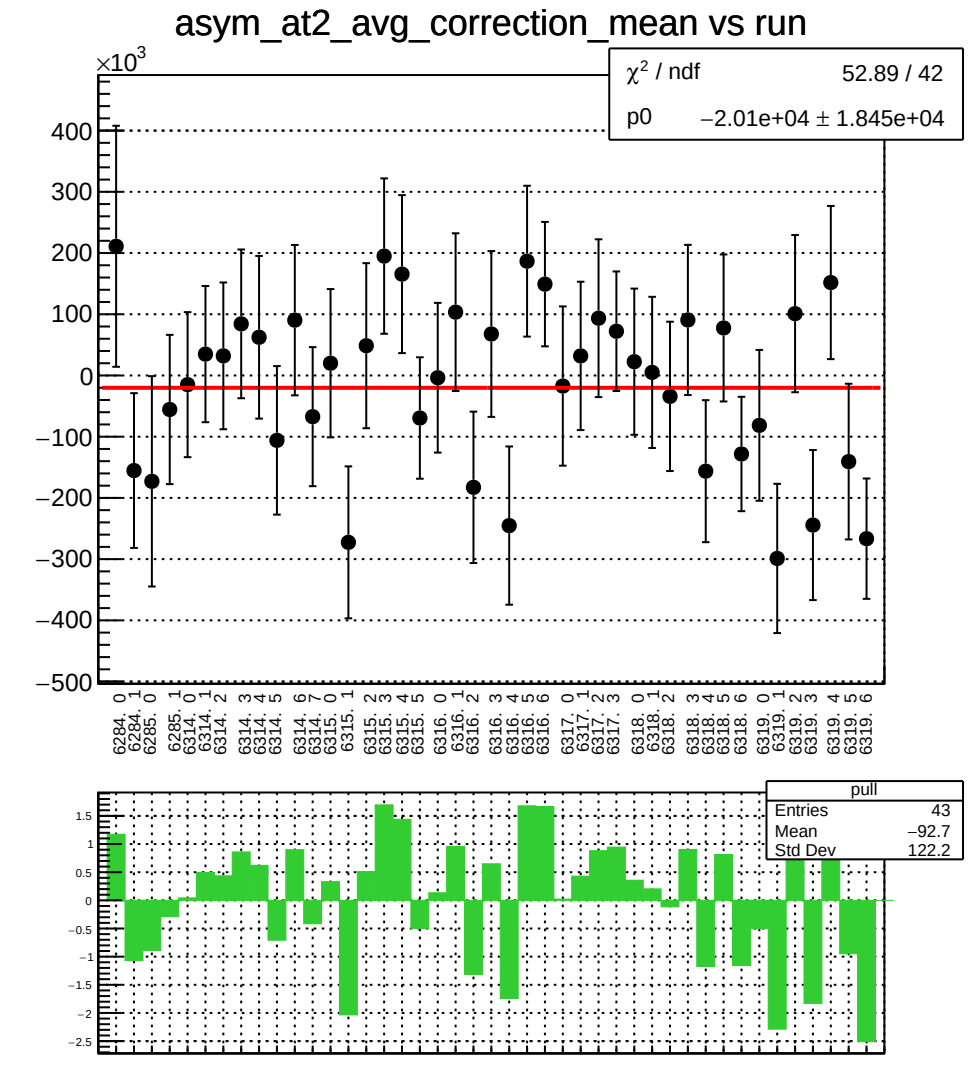

pull1D
Entries 43
Mean −0.003945
Std Dev 0.9763
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

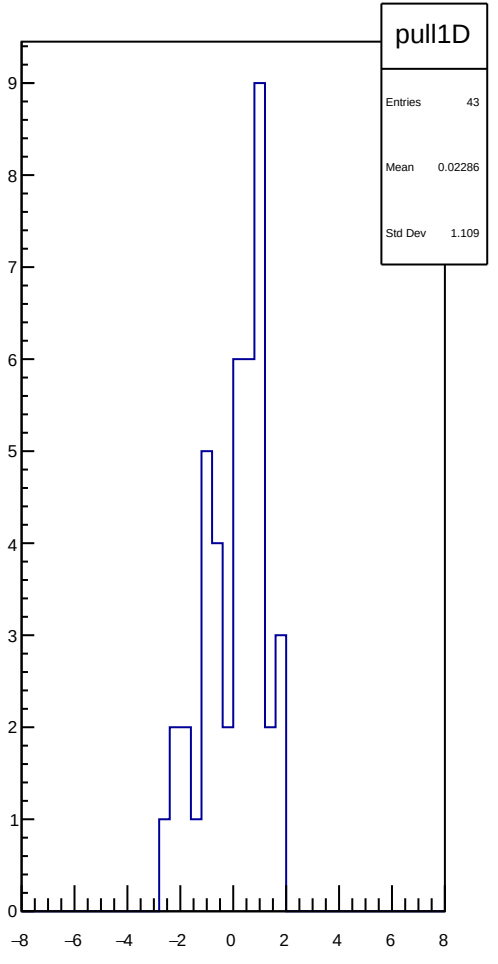

asym_at1_dd_rms vs run
χ² / ndf 162.5 / 42
p0 2077 ± 2.235
2180
2160
2140
2120
2100
2080
2060
2040
2020
2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

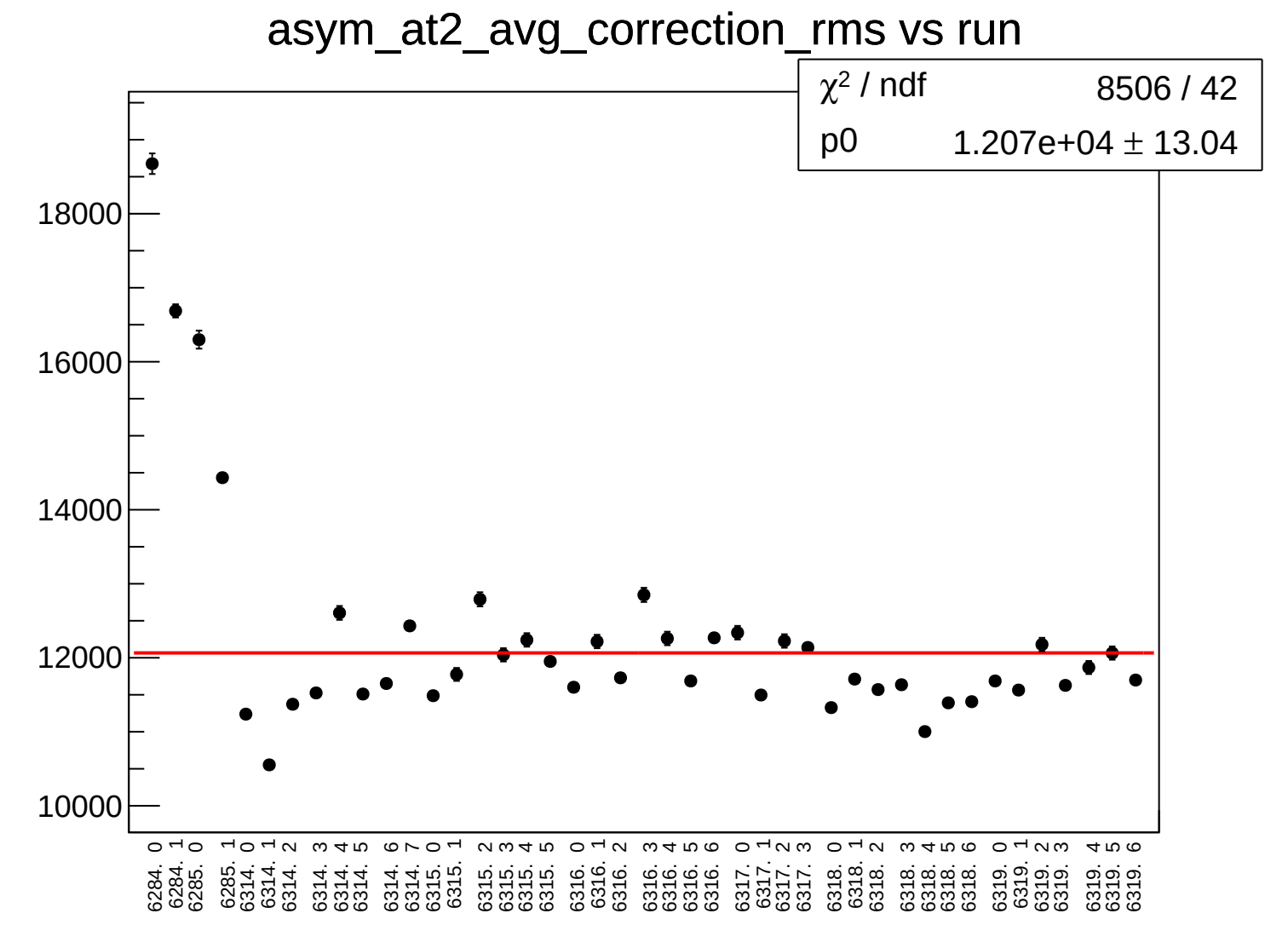

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 47.38 / 42
p0 2661 ± 4031
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −182.1
Std Dev 209.4
2
1
0
−1
−2

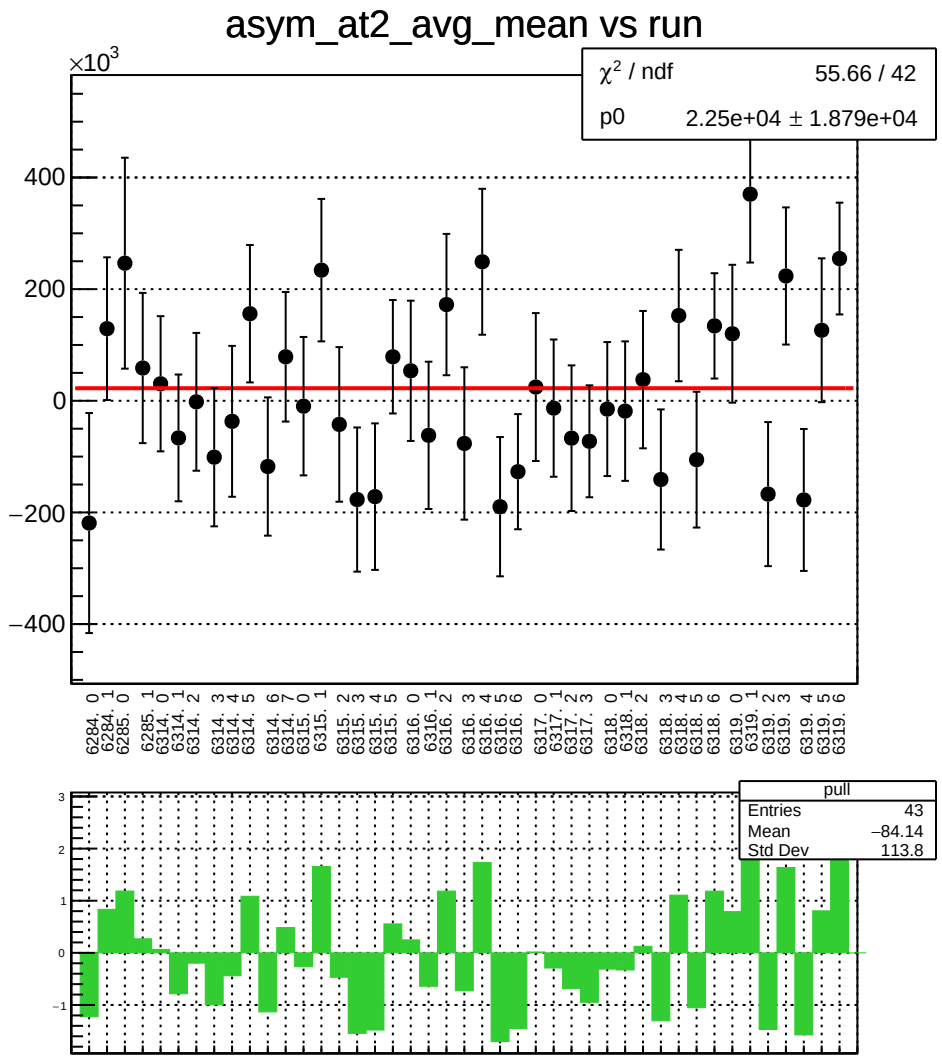

pull1D
Entries 43
Mean 0.01098
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

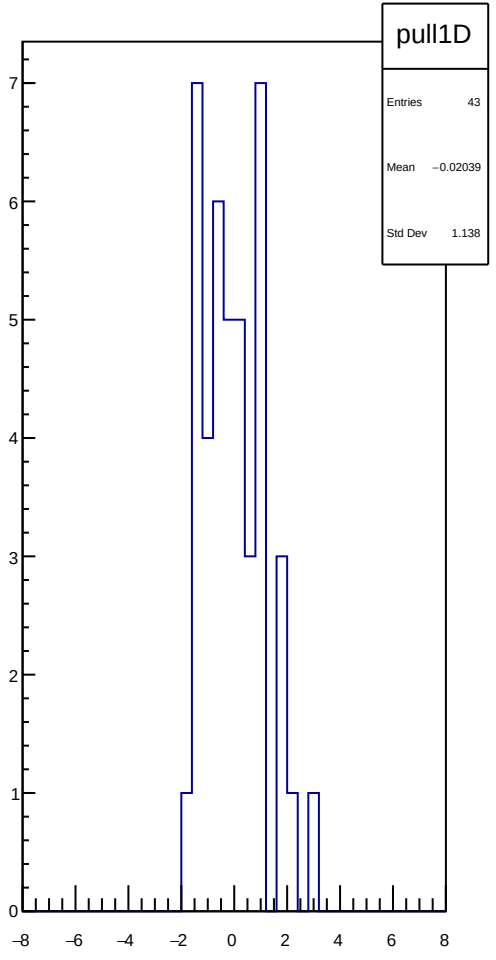

dit_asym_at2_avg_rms vs run
χ² / ndf 1187 / 42
p0 2648 ± 2.851
3100
3000
2900
2800
2700
2600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

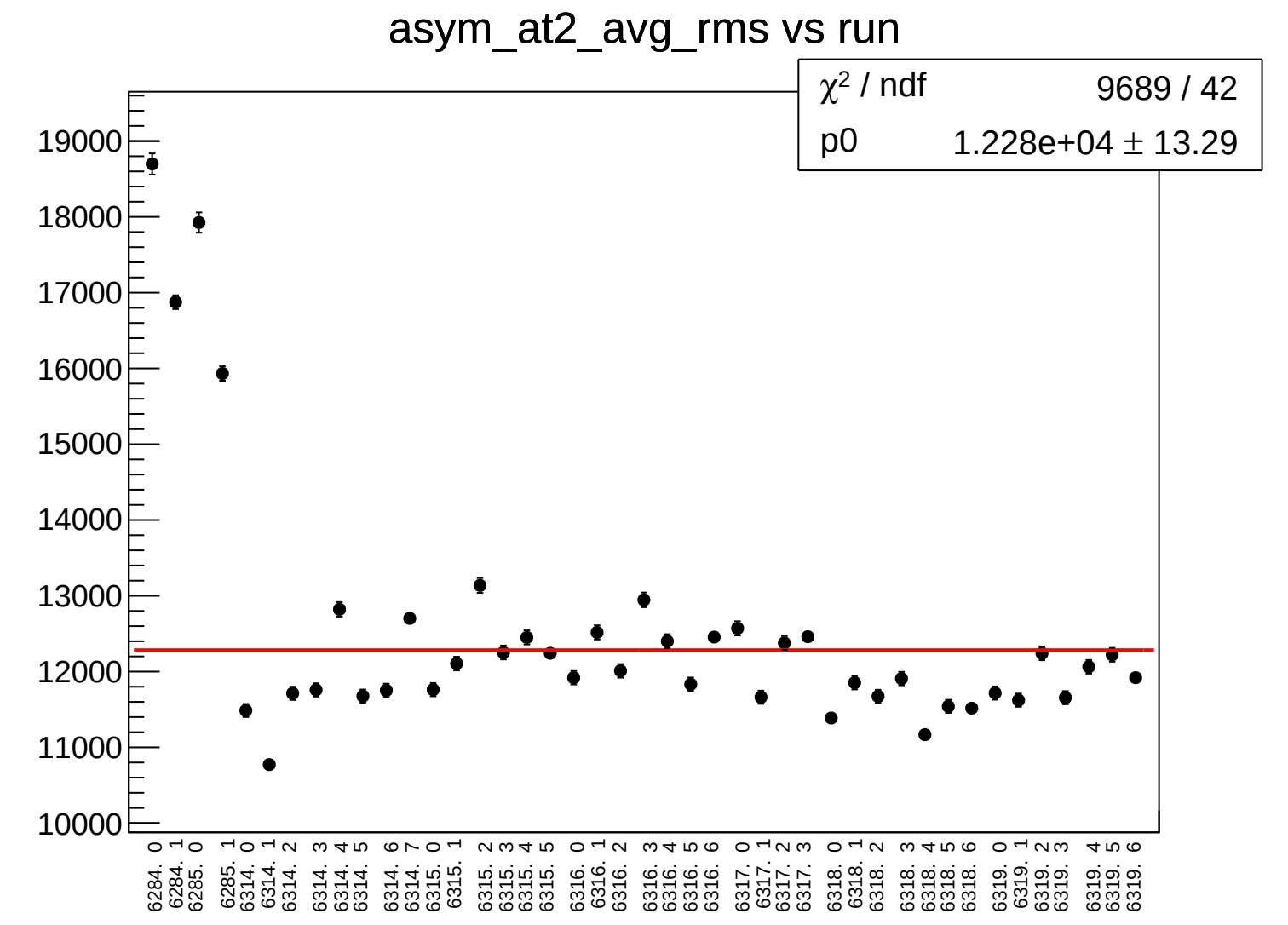

asym_at2_avg_correction_mean vs run
χ² / ndf 52.89 / 42
p0 −2.01e+04 ± 1.845e+04
×10³
pull
Entries 43
Mean −92.7
Std Dev 122.2

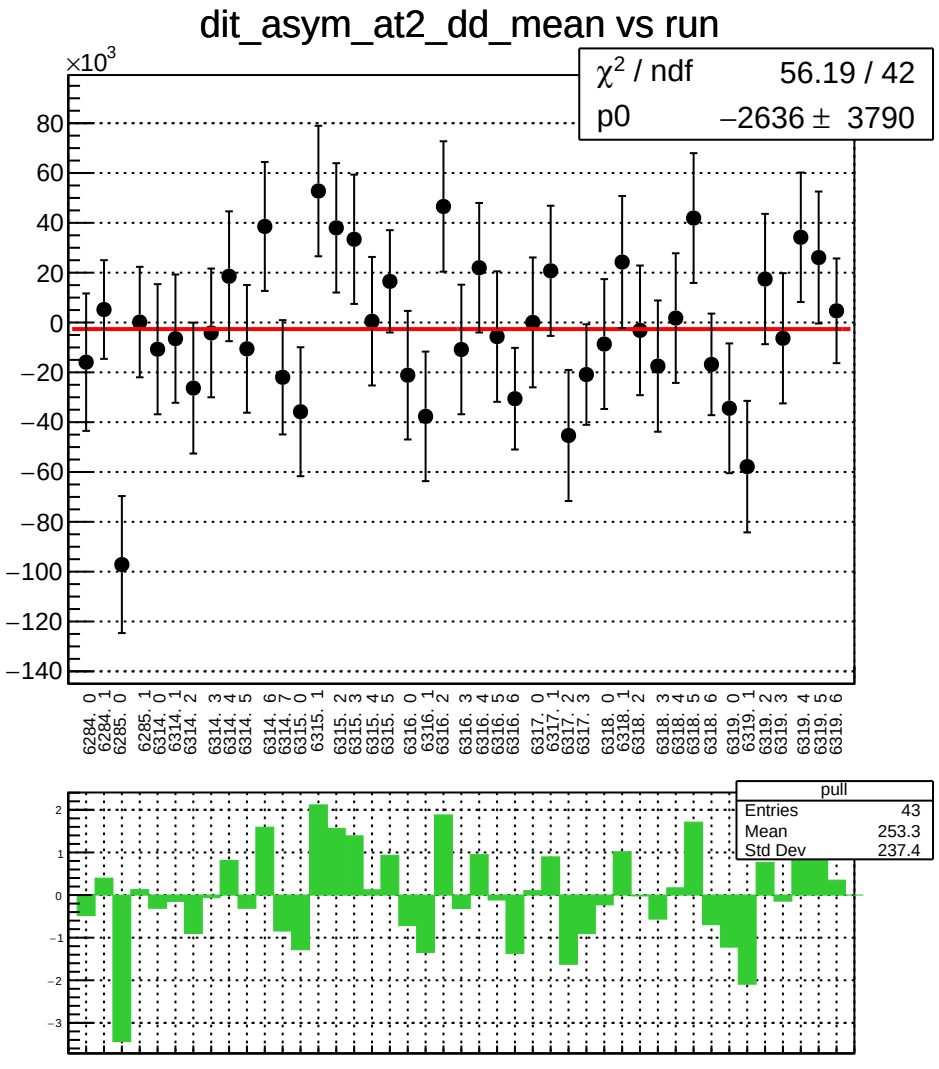

pull1D
Entries 43
Mean 0.02286
Std Dev 1.109

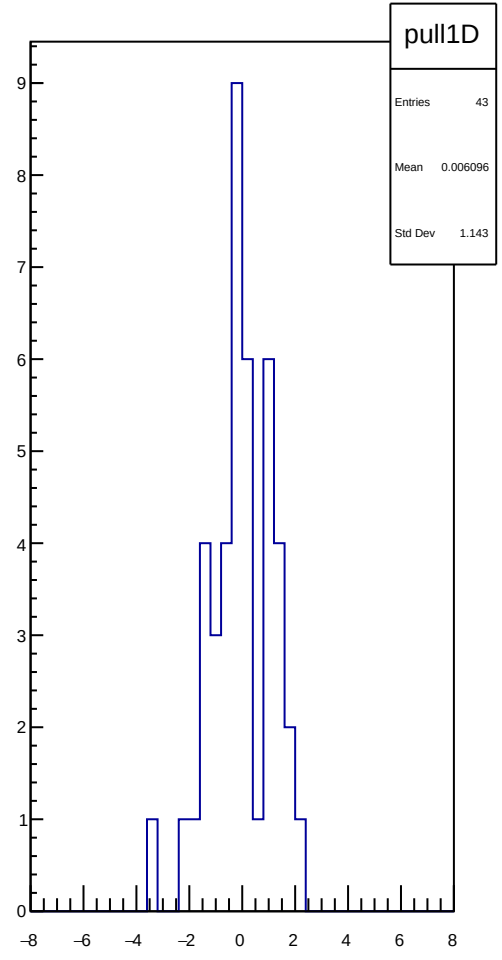

asym_at2_avg_correction_rms vs run
χ² / ndf 8506 / 42
p0 1.207e+04 ± 13.04
18000
16000
14000
12000
10000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

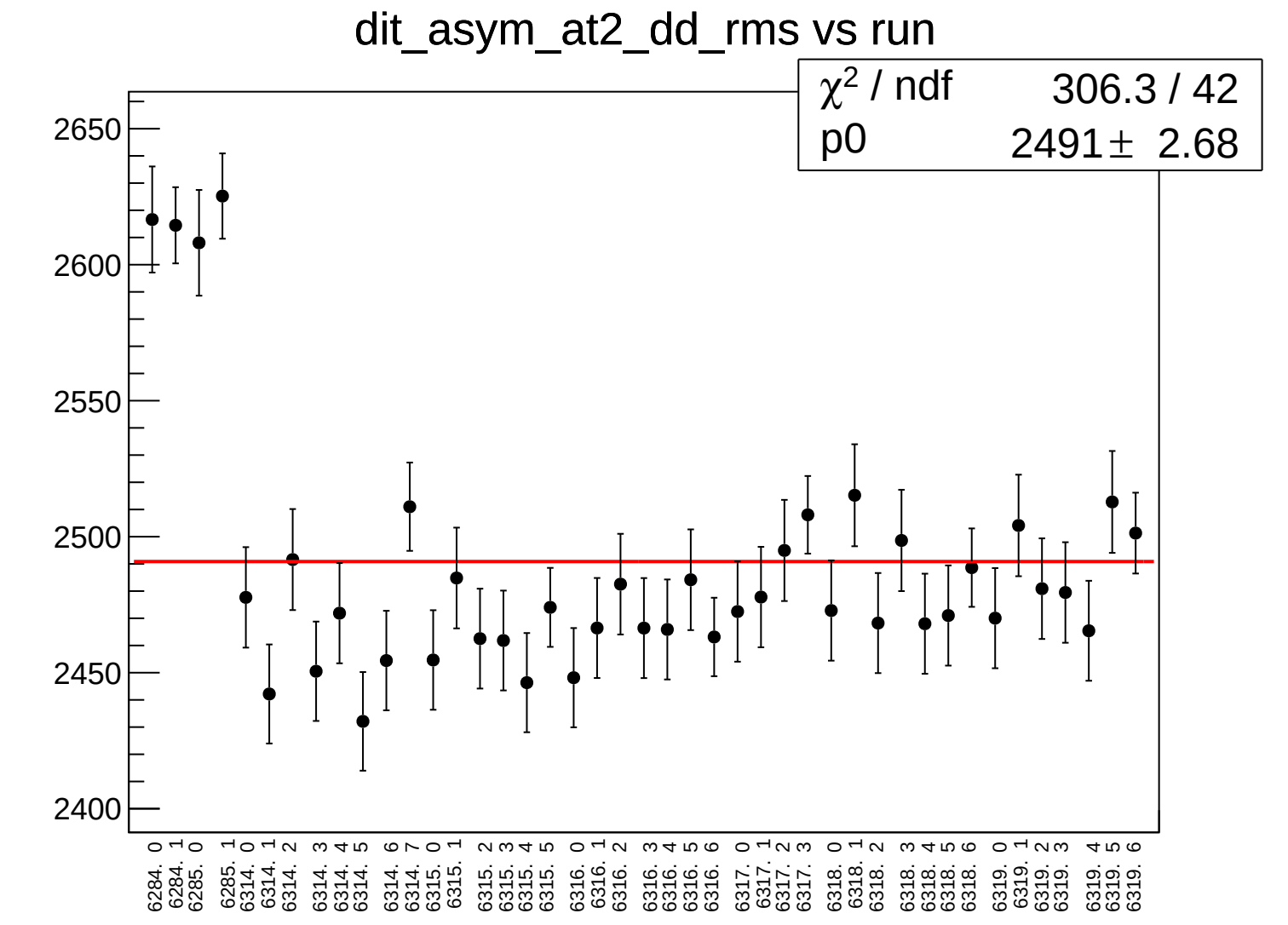

asym_at2_avg_mean vs run
×10^3
χ² / ndf 55.66 / 42
p0 2.25e+04 ± 1.879e+04
400
200
0
−200
−400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −84.14
Std Dev 113.8
3
2
1
0
−1

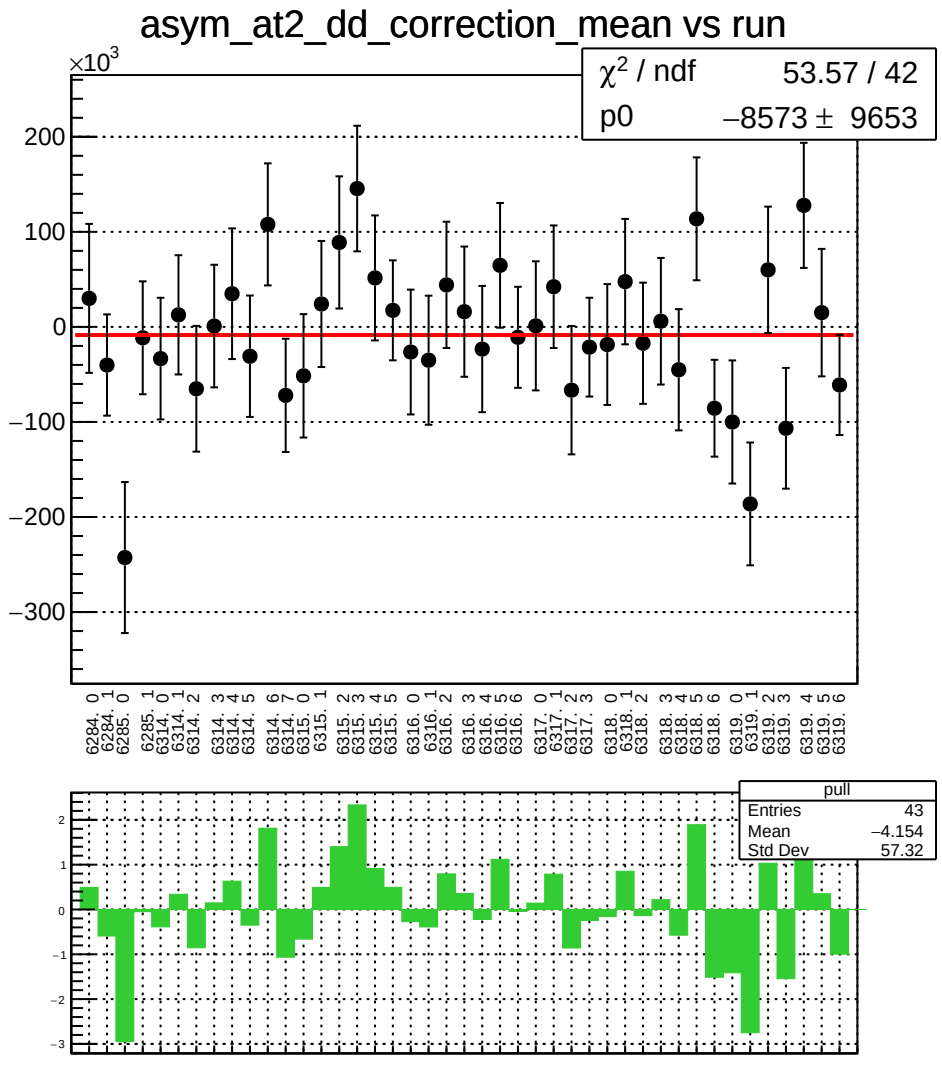

pull1D
Entries 43
Mean −0.02039
Std Dev 1.138
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

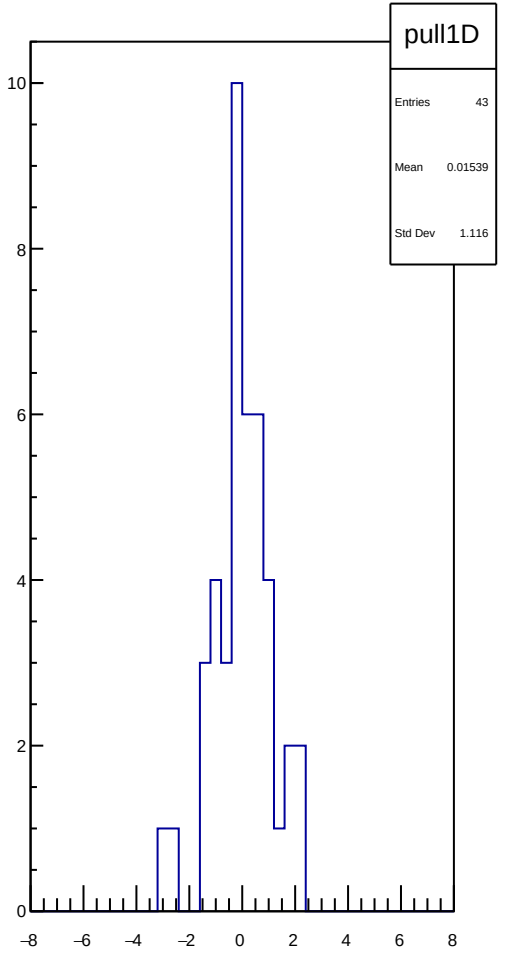

asym_at2_avg_rms vs run
χ² / ndf 9689 / 42
p0 1.228e+04 ± 13.29
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

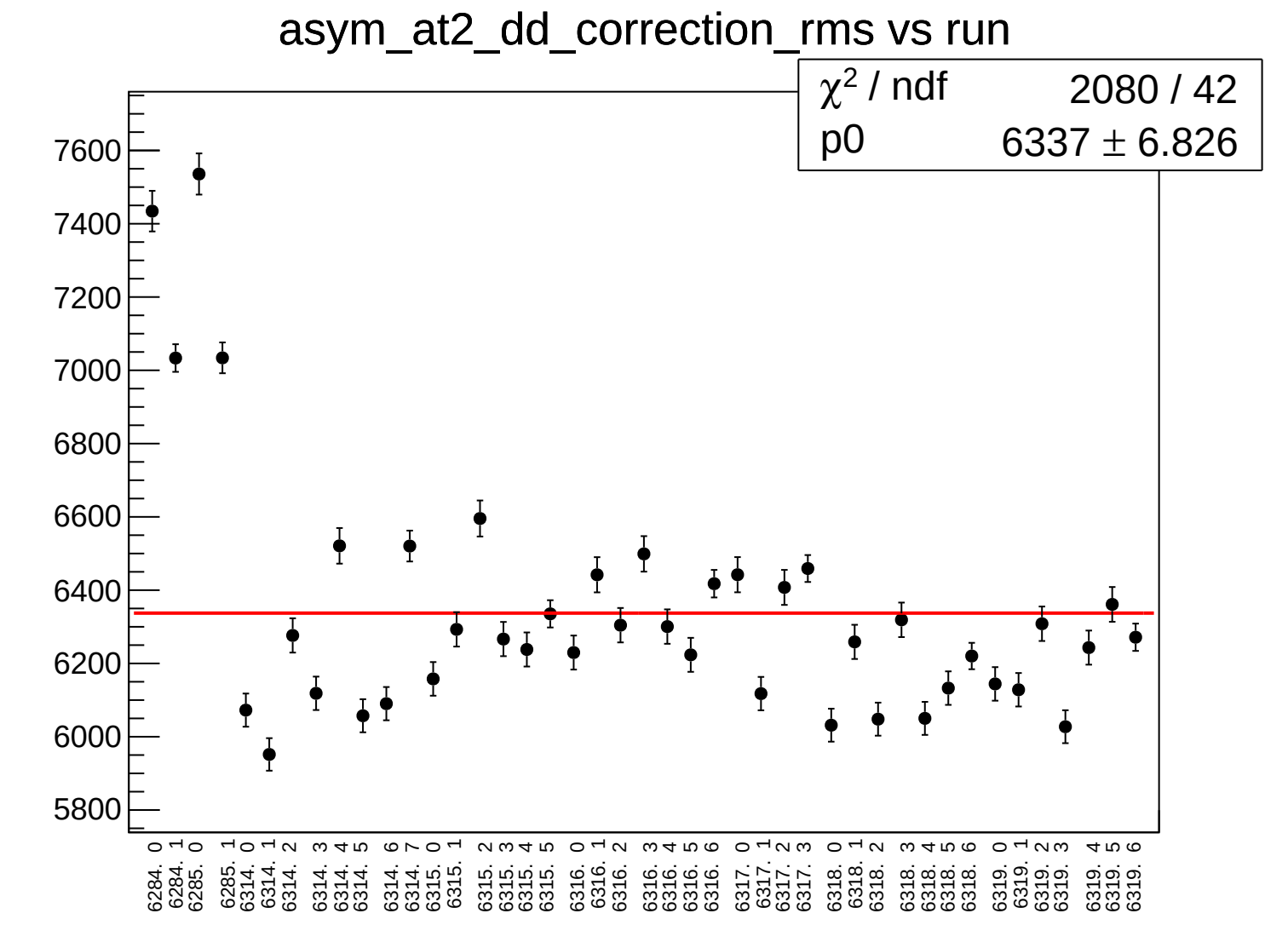

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 56.19 / 42
p0 −2636 ± 3790
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 253.3
Std Dev 237.4
2
1
0
−1
−2
−3

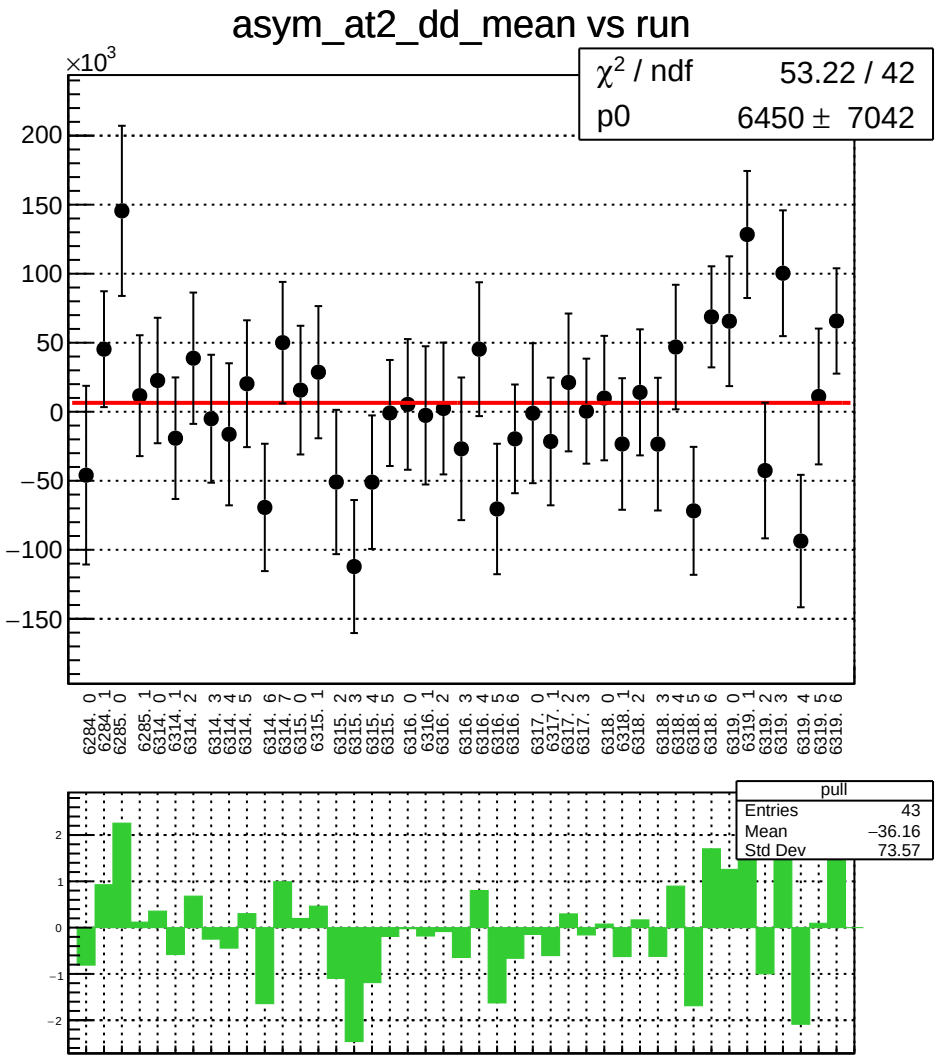

pull1D
Entries 43
Mean 0.006096
Std Dev 1.143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

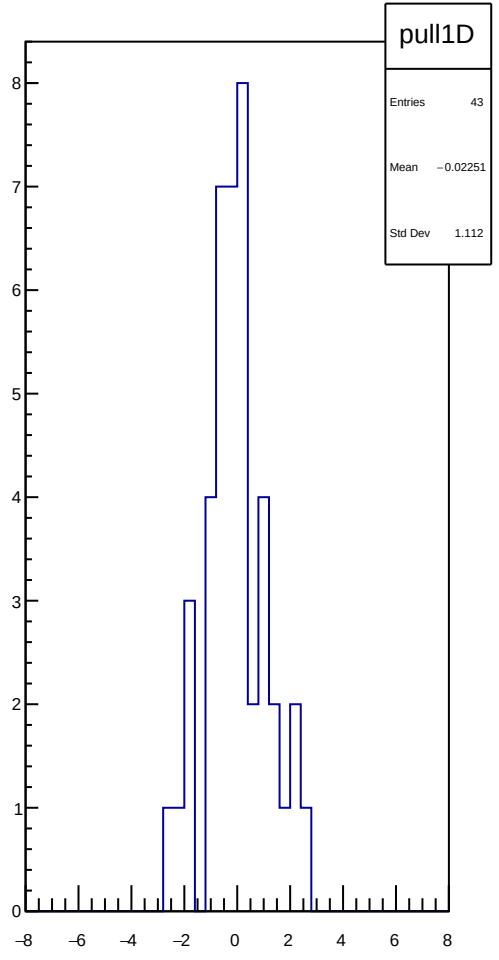

dit_asym_at2_dd_rms vs run
χ² / ndf 306.3 / 42
p0 2491 ± 2.68
2650
2600
2550
2500
2450
2400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

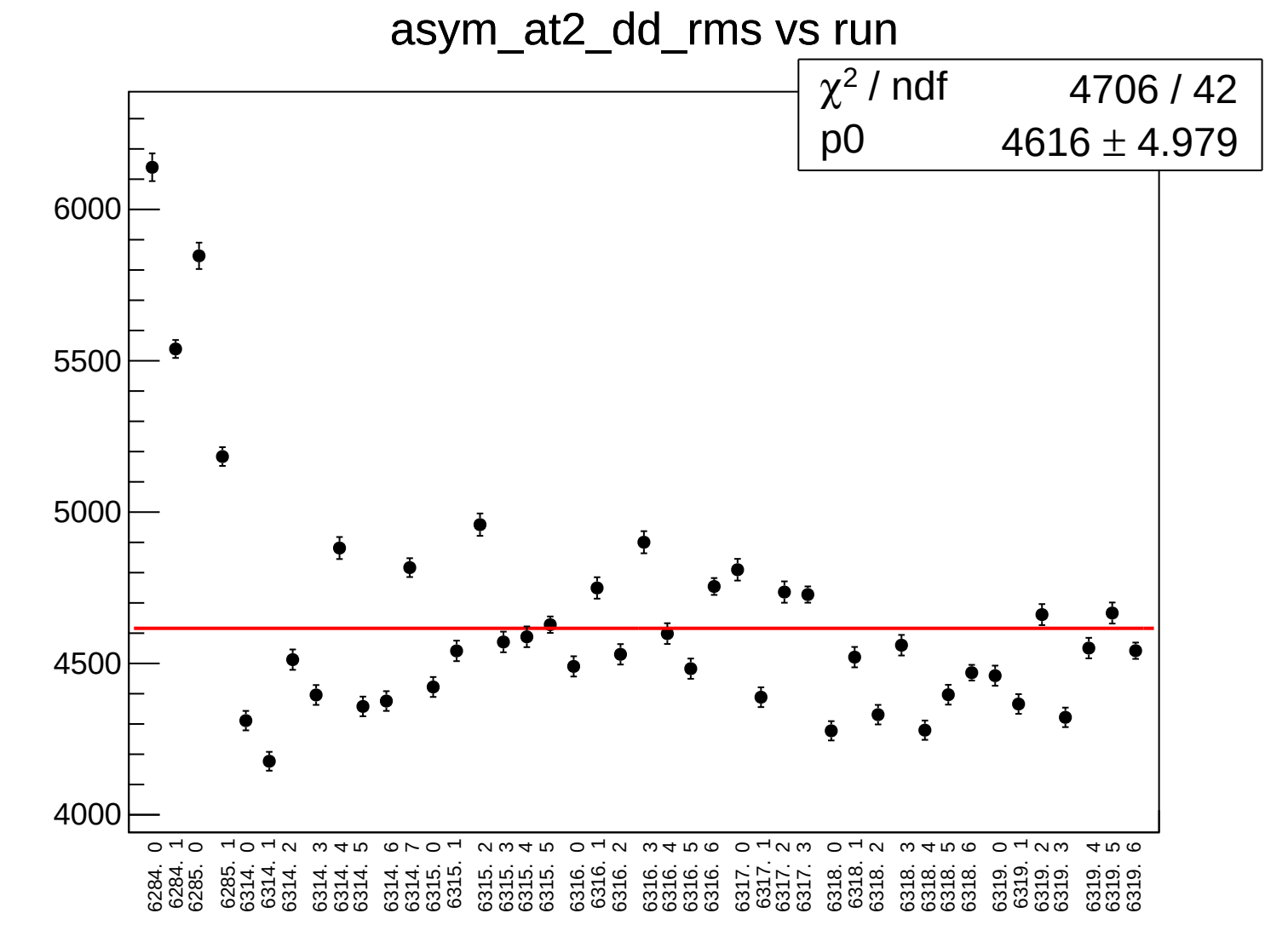

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 53.57 / 42
p0 −8573 ± 9653
200
100
0
−100
−200
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −4.154
Std Dev 57.32
2
1
0
−1
−2
−3

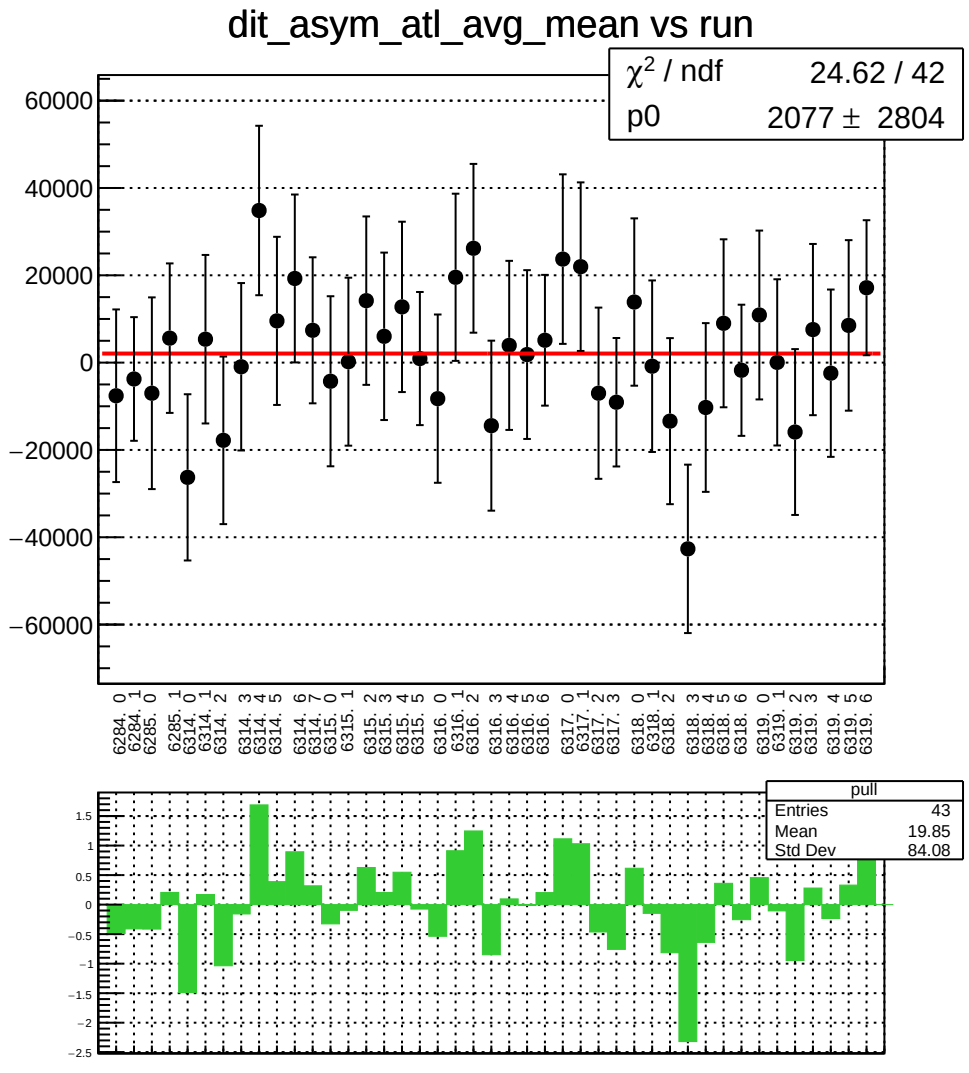

pull1D
Entries 43
Mean 0.01539
Std Dev 1.116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

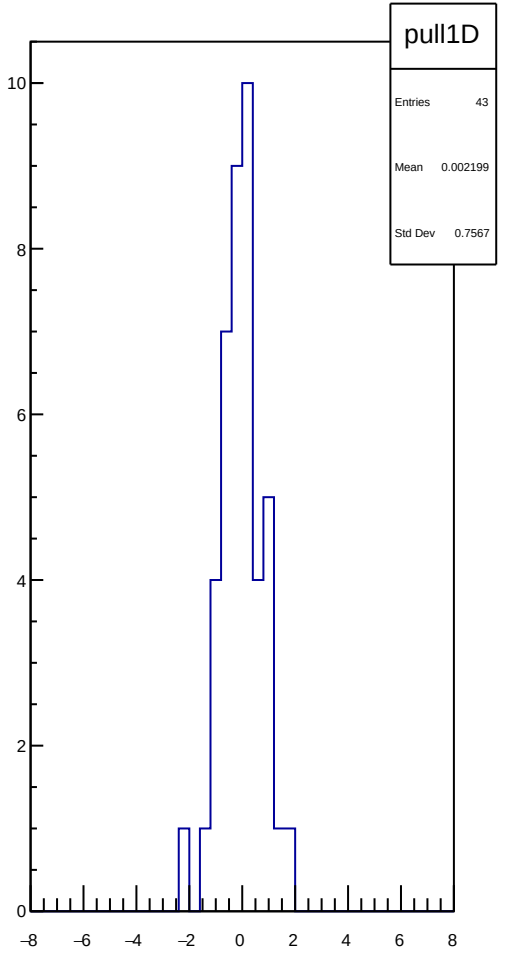

asym_at2_dd_correction_rms vs run
χ² / ndf 2080 / 42
p0 6337 ± 6.826
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

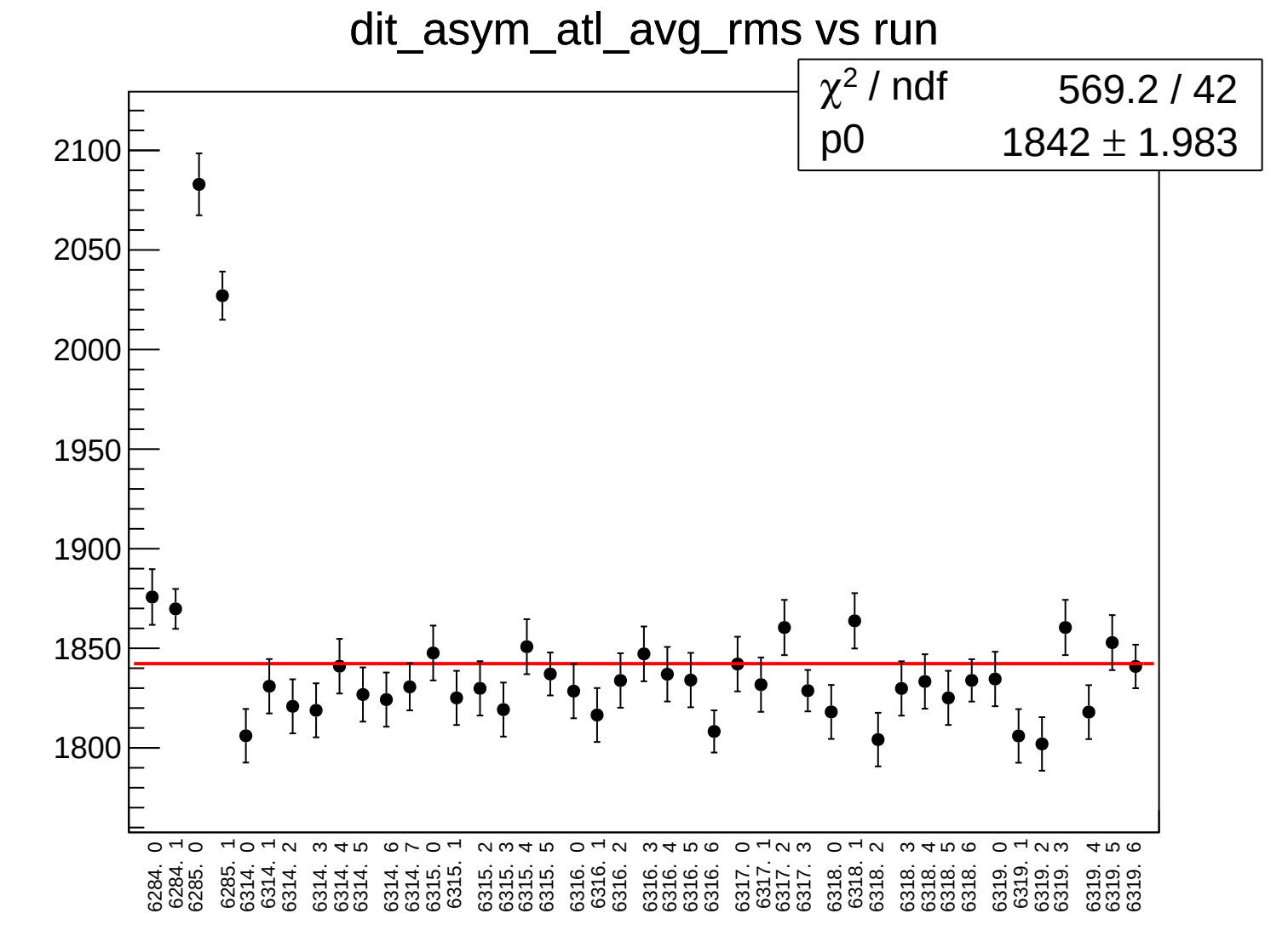

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 53.22 / 42
p0 6450 ± 7042
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −36.16
Std Dev 73.57
2
1
0
−1
−2

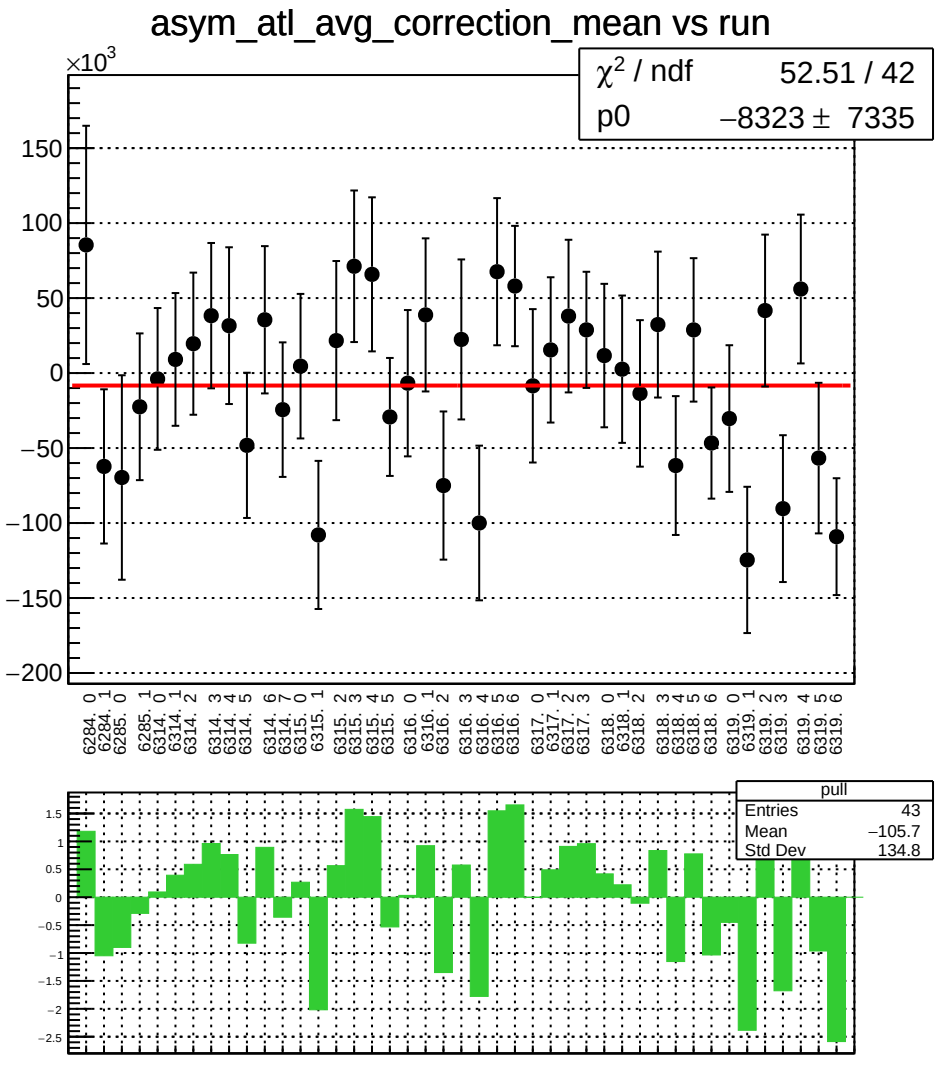

pull1D
Entries 43
Mean −0.02251
Std Dev 1.112
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

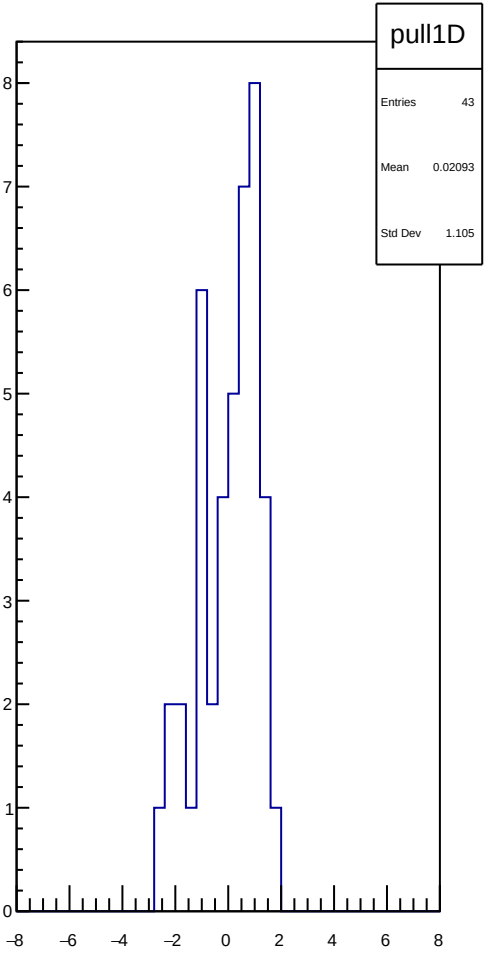

asym_at2_dd_rms vs run
χ² / ndf 4706 / 42
p0 4616 ± 4.979
6000
5500
5000
4500
4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

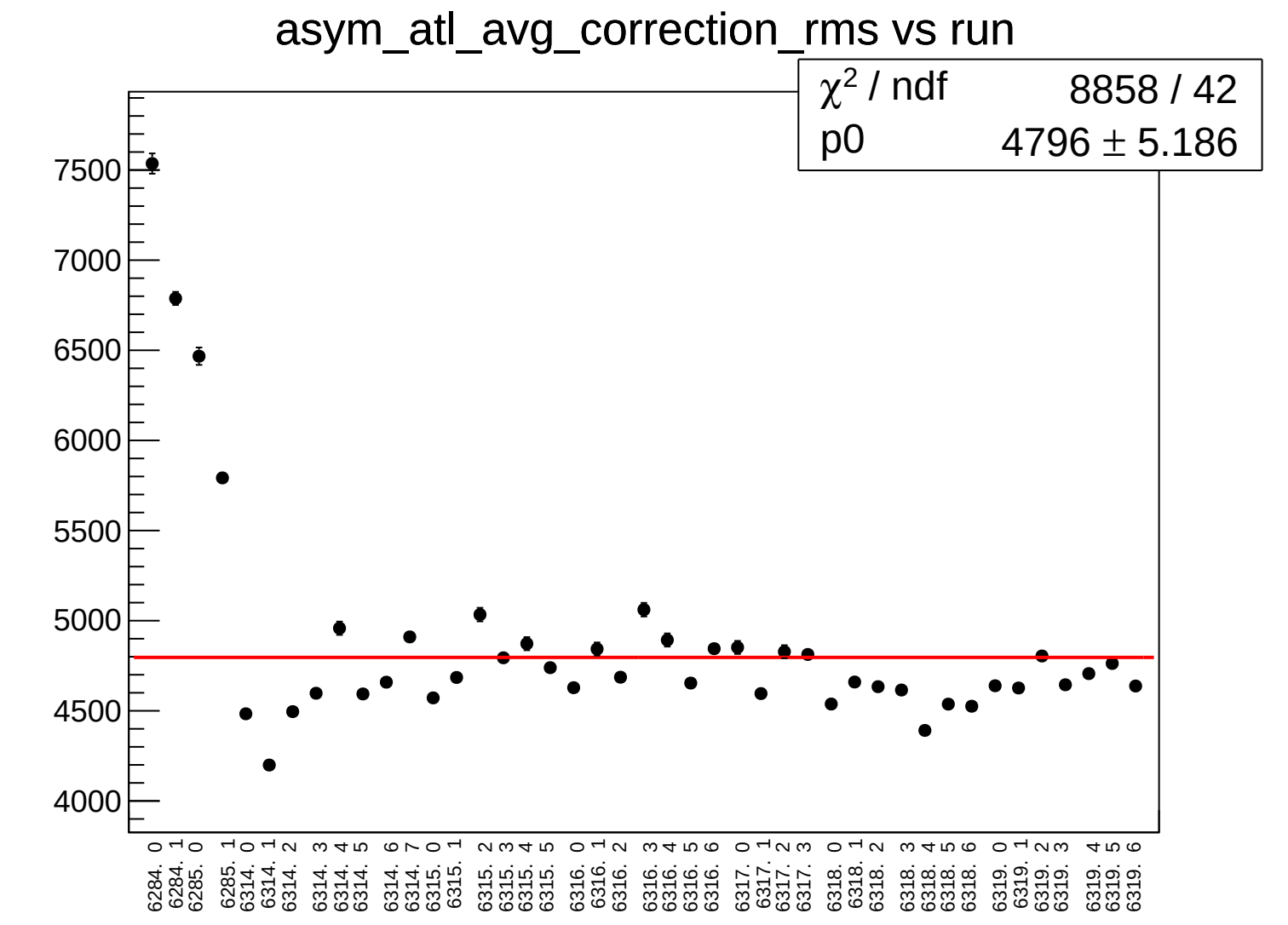

dit_asym_atl_avg_mean vs run
χ² / ndf 24.62 / 42
p0 2077 ± 2804
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 19.85
Std Dev 84.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

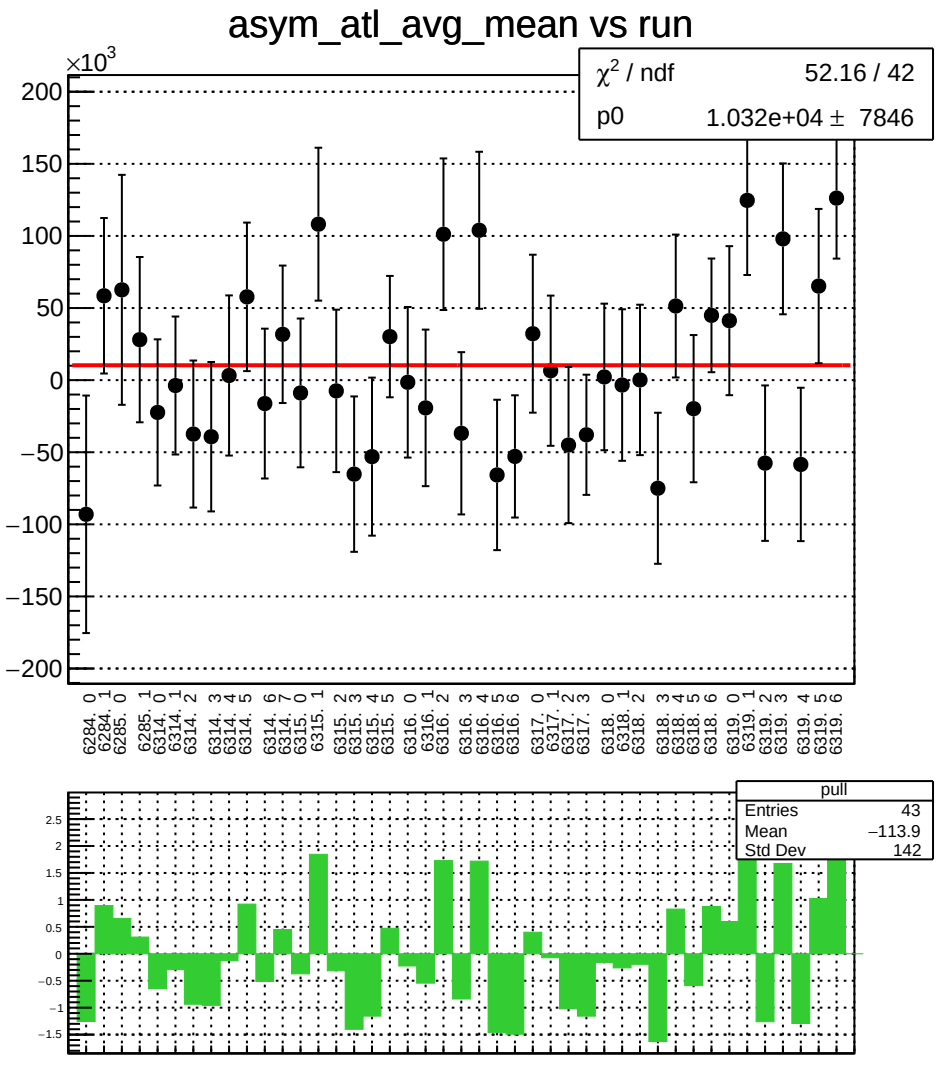

pull1D
Entries 43
Mean 0.002199
Std Dev 0.7567
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

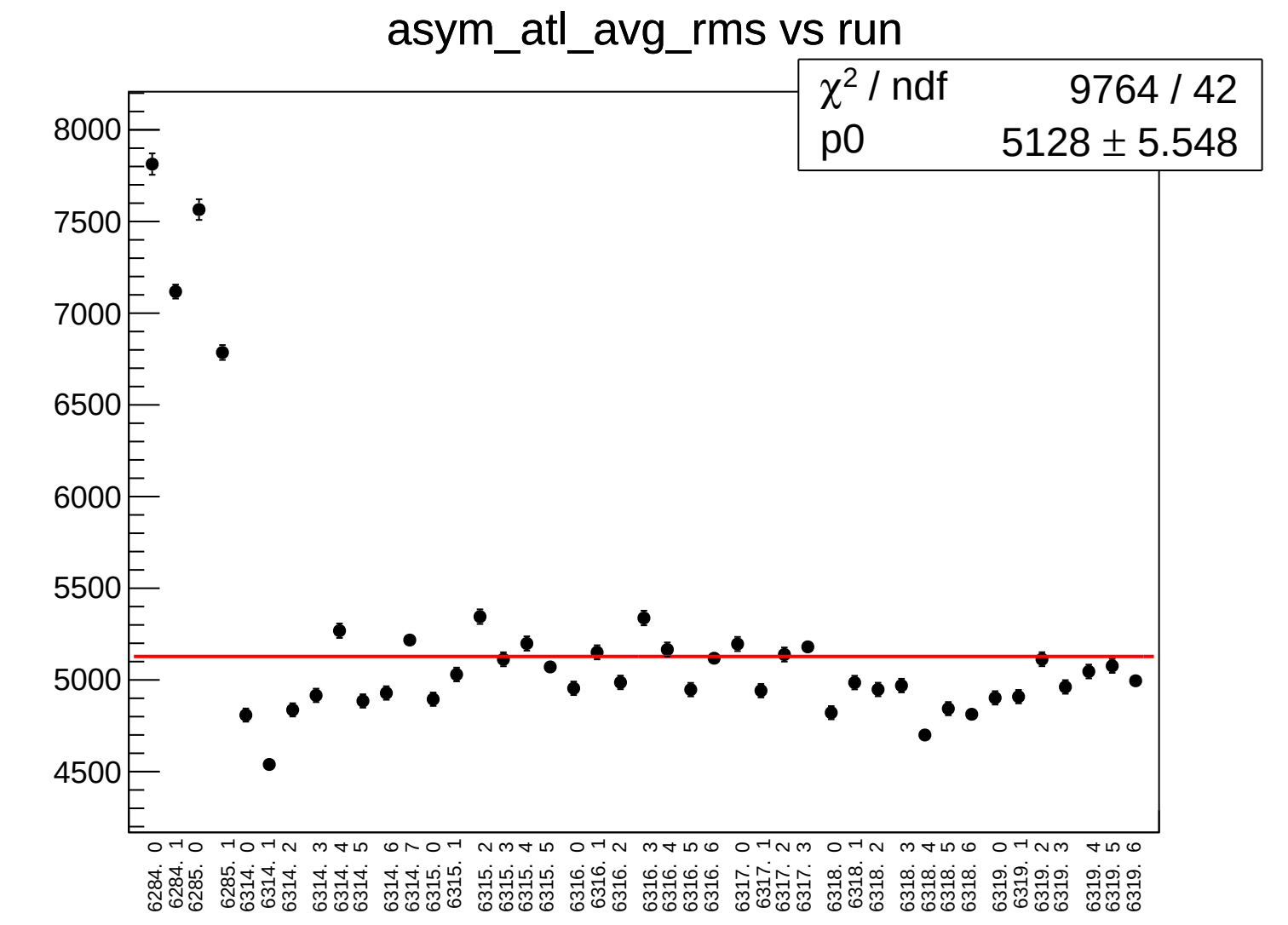

dit_asym_atl_avg_rms vs run
χ^2 / ndf 569.2 / 42
p0 1842 ± 1.983
2100
2050
2000
1950
1900
1850
1800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

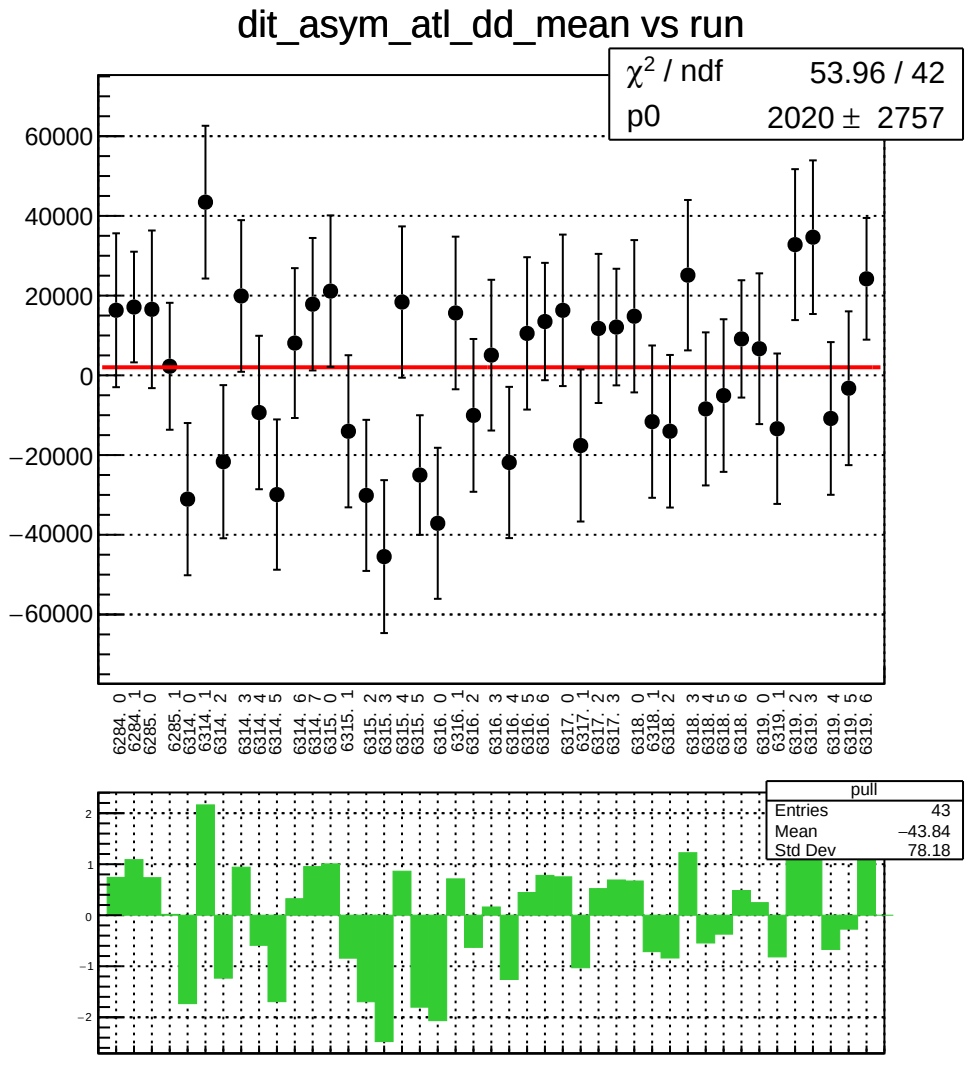

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 52.51 / 42
p0 −8323 ± 7335
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −105.7
Std Dev 134.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

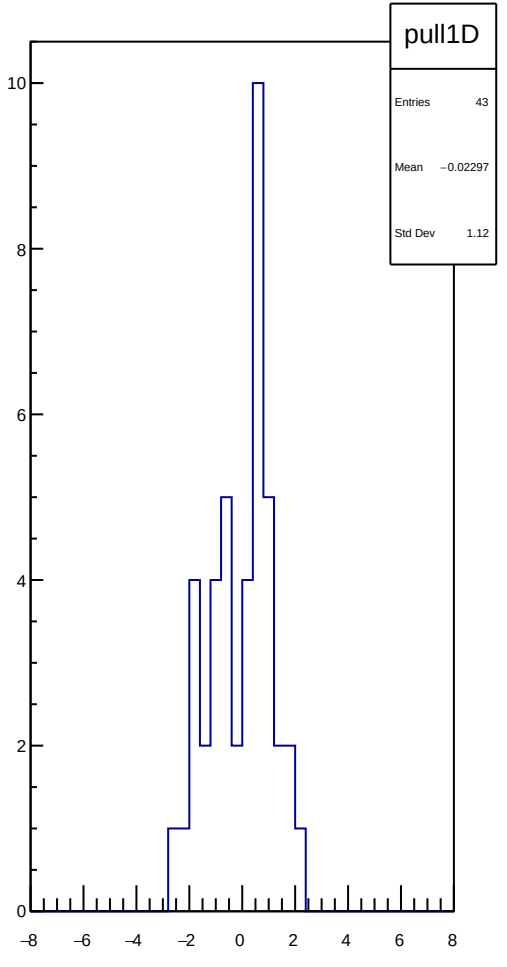

pull1D
Entries 43
Mean 0.02093
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

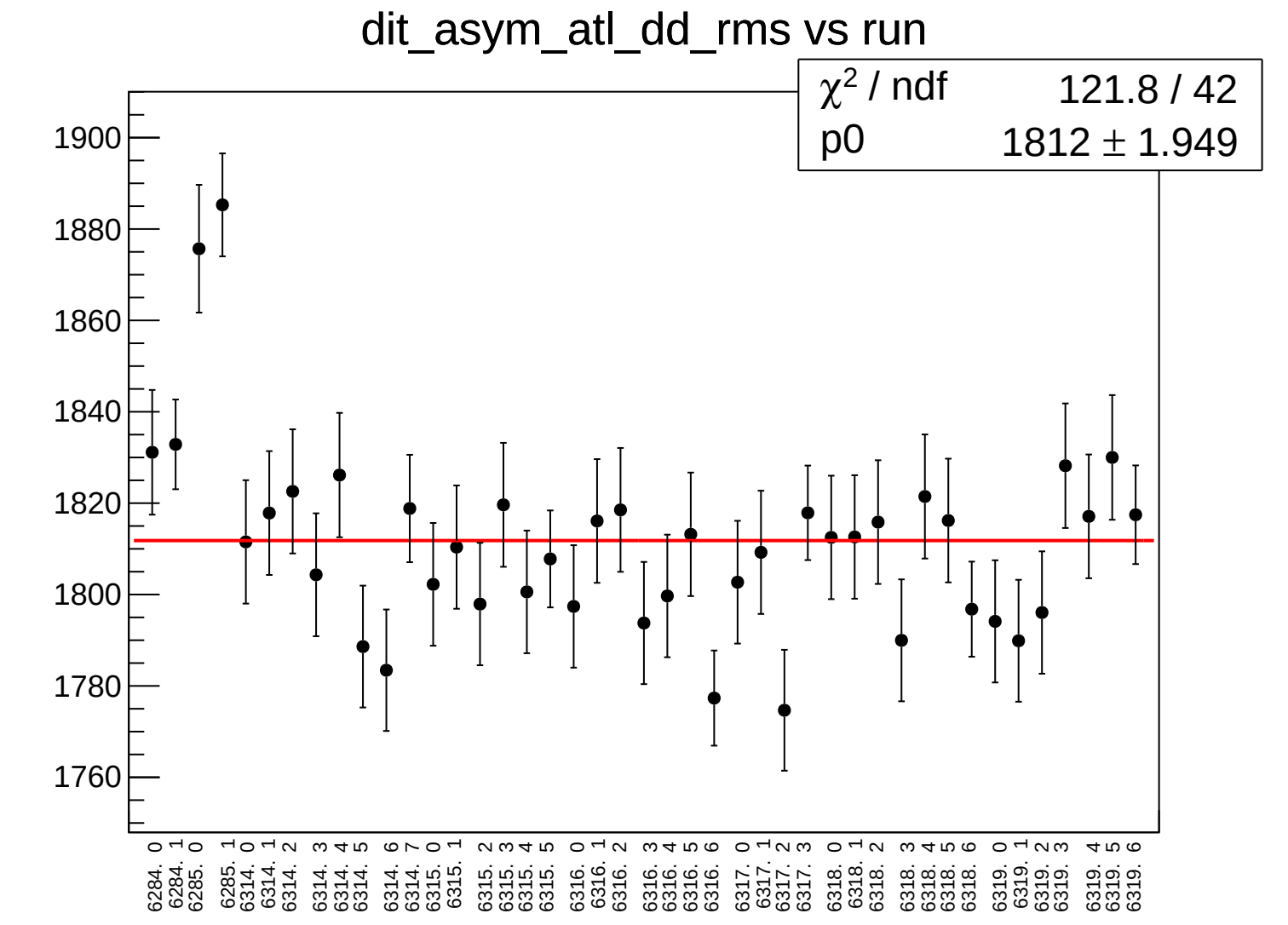

asym_atl_avg_correction_rms vs run
χ² / ndf 8858 / 42
p0 4796 ± 5.186
7500
7000
6500
6000
5500
5000
4500
4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

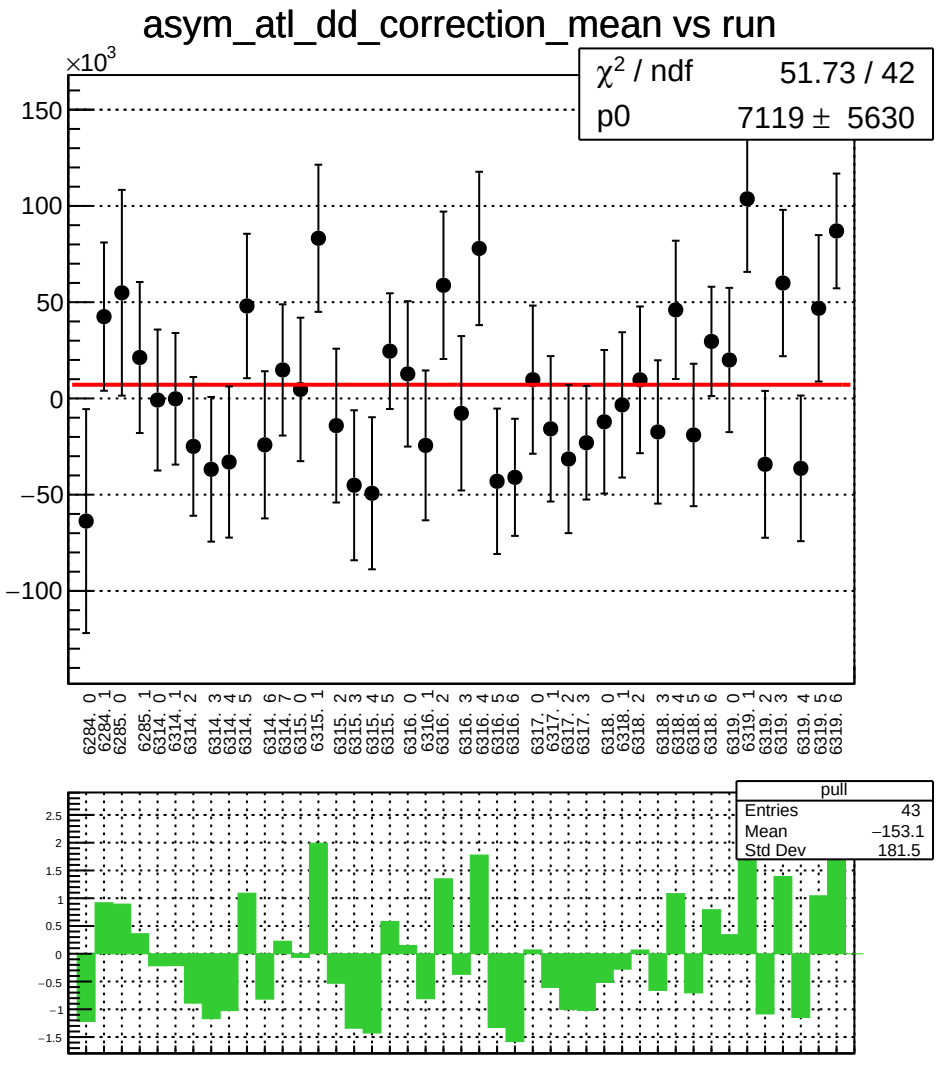

asym_atl_avg_mean vs run
×10^3
χ² / ndf 52.16 / 42
p0 1.032e+04 ± 7846
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −113.9
Std Dev 142
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01853
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

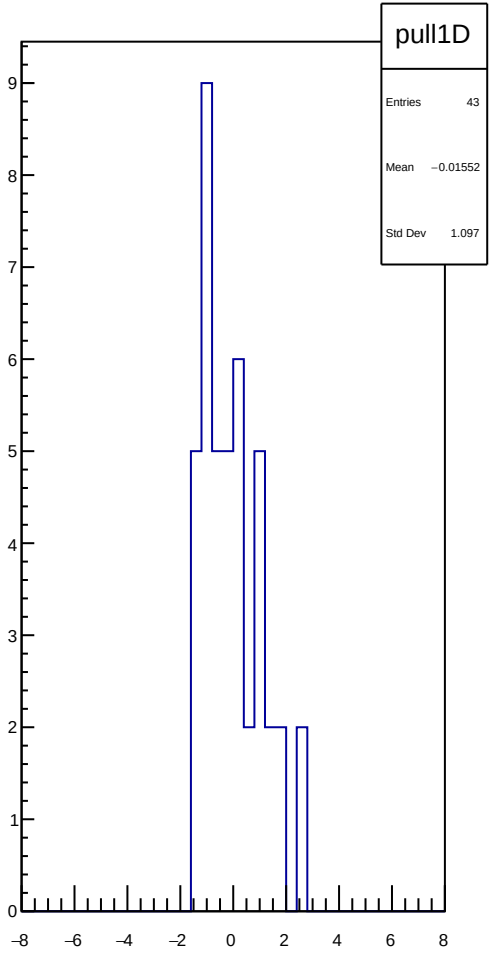

asym_atl_avg_rms vs run
χ^2 / ndf 9764 / 42
p0 5128 ± 5.548
8000
7500
7000
6500
6000
5500
5000
4500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

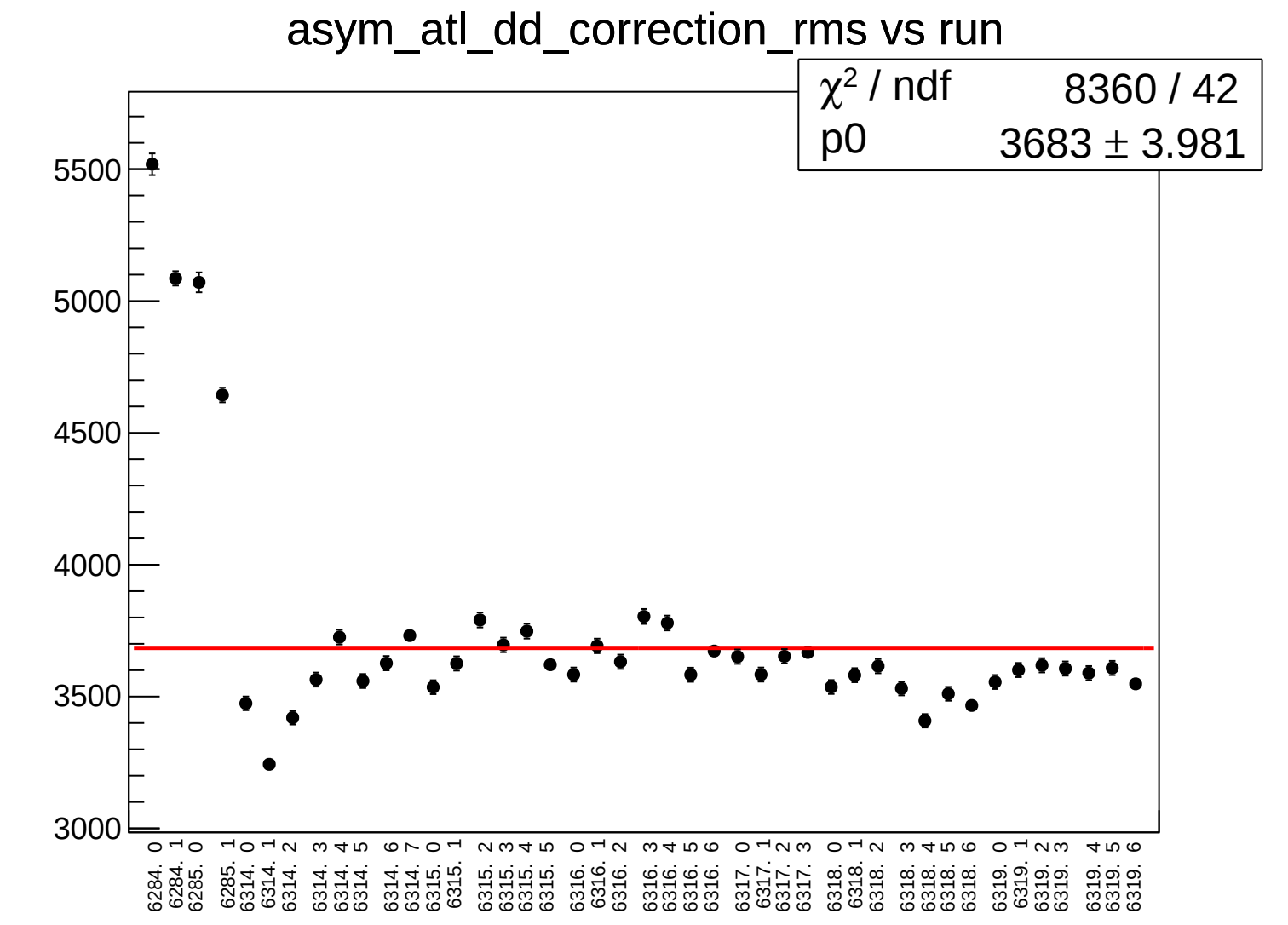

dit_asym_atl_dd_mean vs run
χ² / ndf 53.96 / 42
p0 2020 ± 2757
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −43.84
Std Dev 78.18
2
1
0
−1
−2

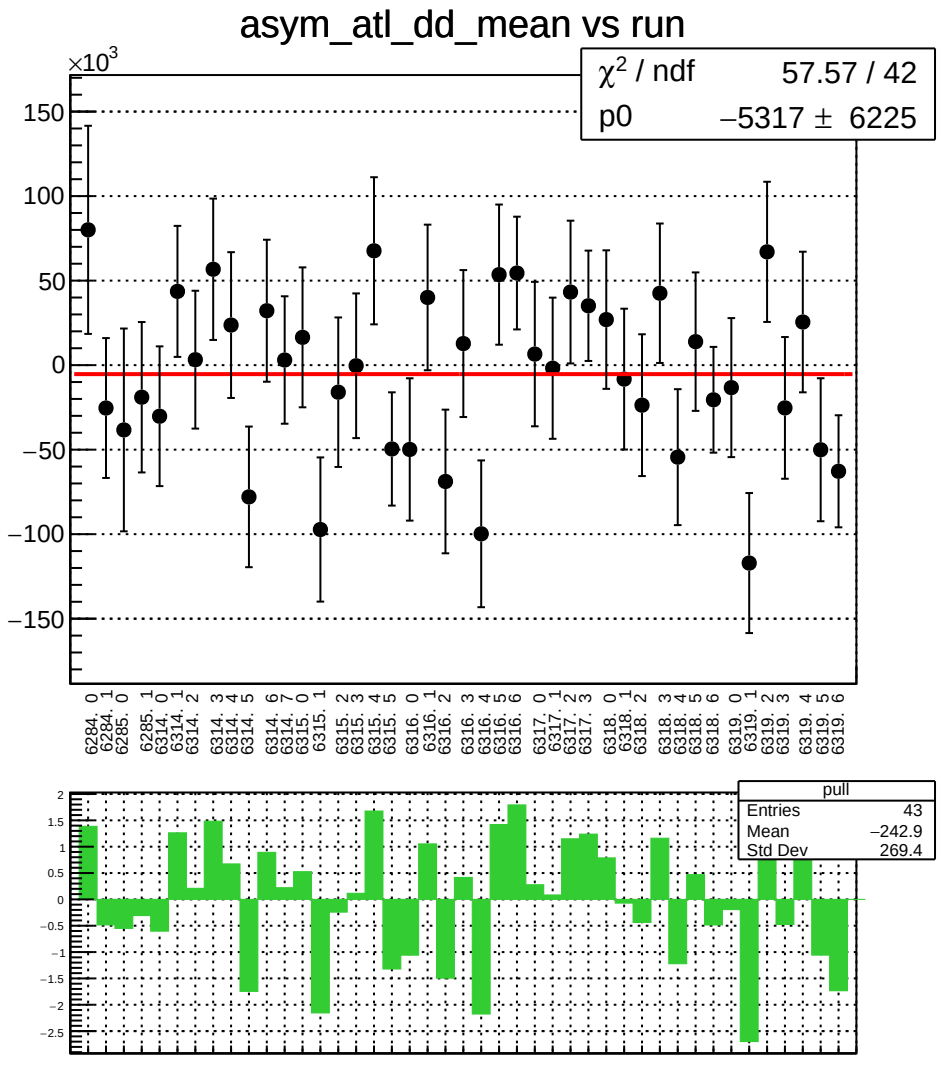

pull1D
Entries 43
Mean −0.02297
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

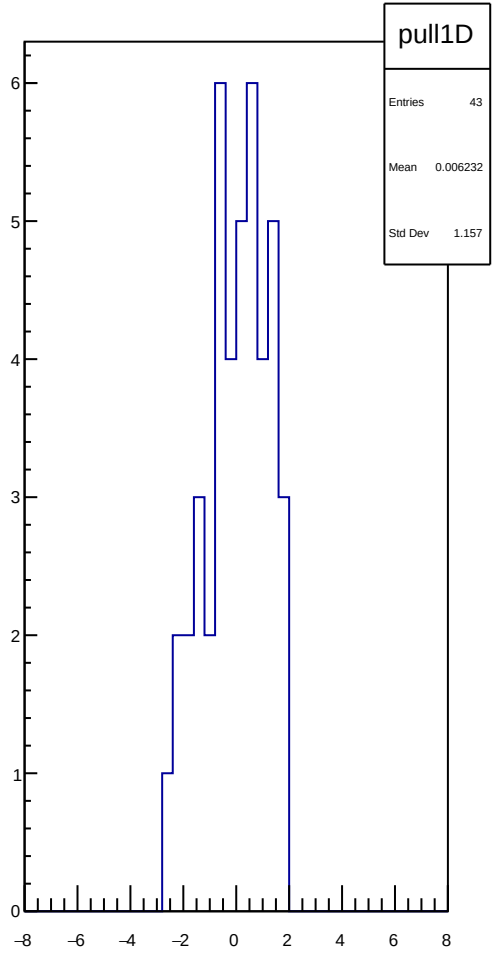

dit_asym_atl_dd_rms vs run
χ² / ndf 121.8 / 42
p0 1812 ± 1.949
1900
1880
1860
1840
1820
1800
1780
1760
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

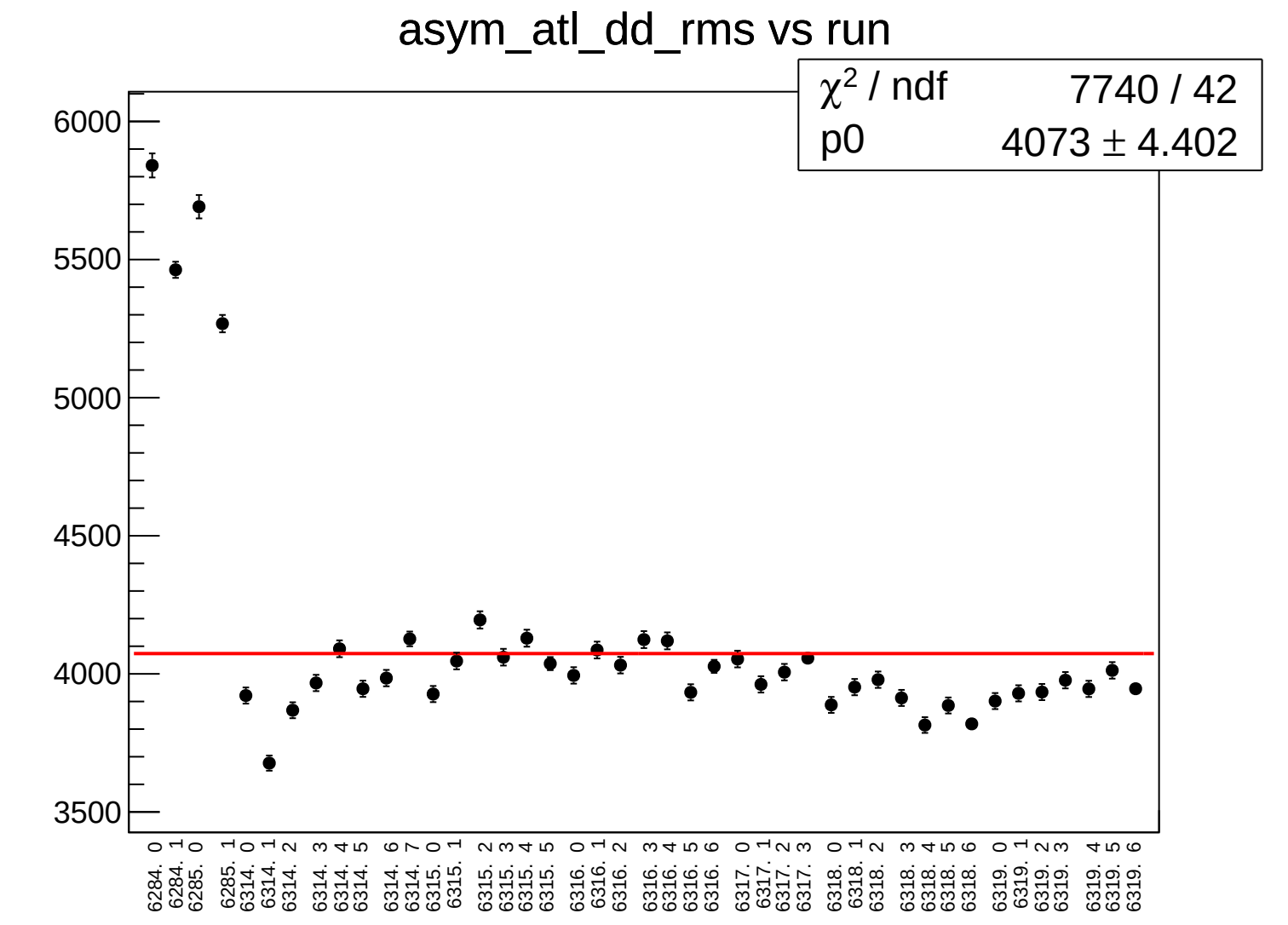

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 51.73 / 42
p0 7119 ± 5630
150
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −153.1
Std Dev 181.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

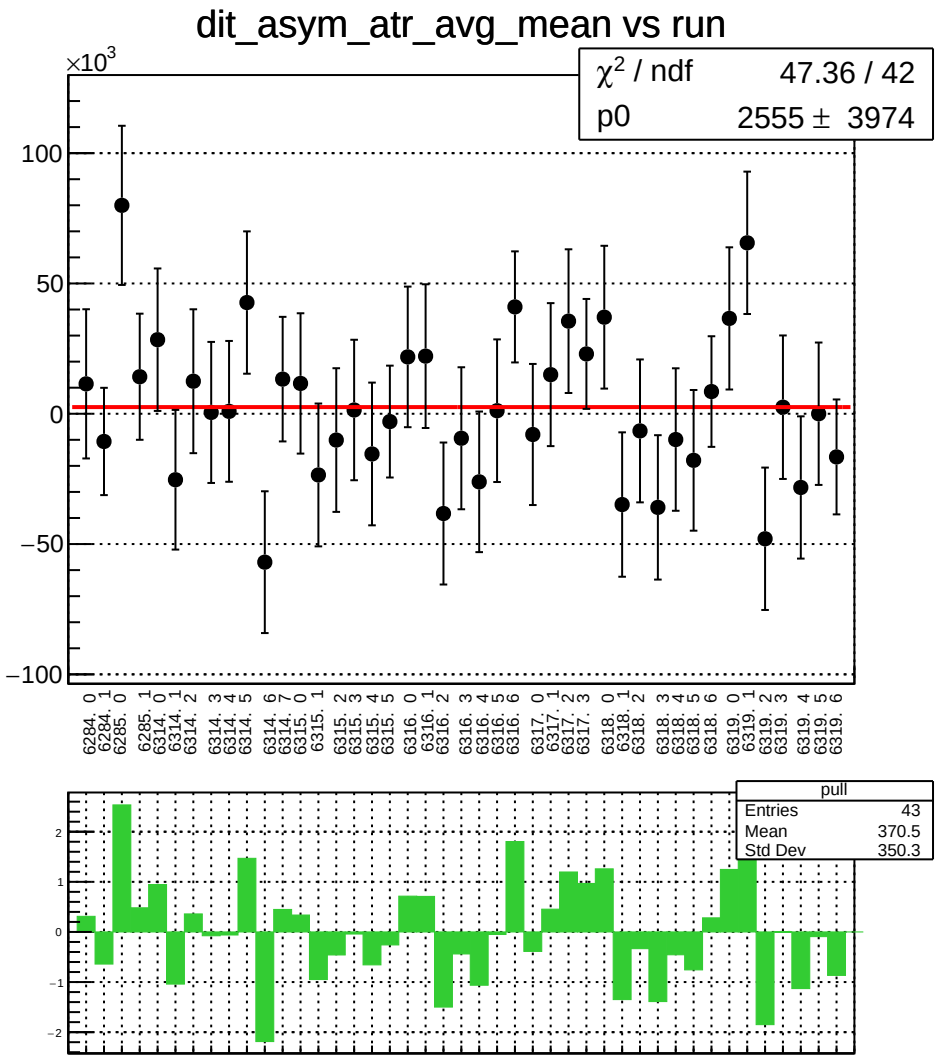

pull1D
Entries 43
Mean −0.01552
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

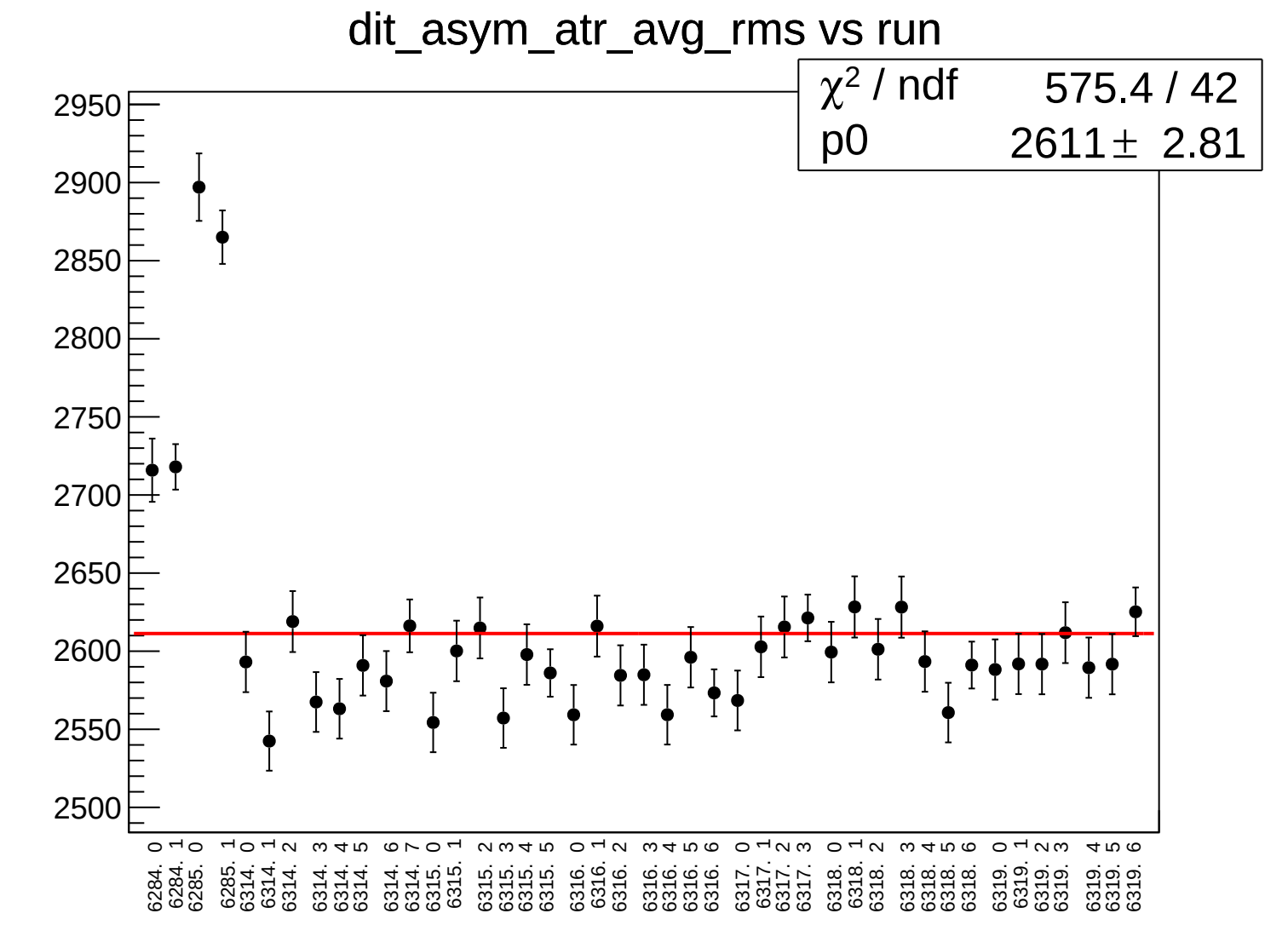

asym_atl_dd_correction_rms vs run
χ² / ndf 8360 / 42
p0 3683 ± 3.981
5500
5000
4500
4000
3500
3000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

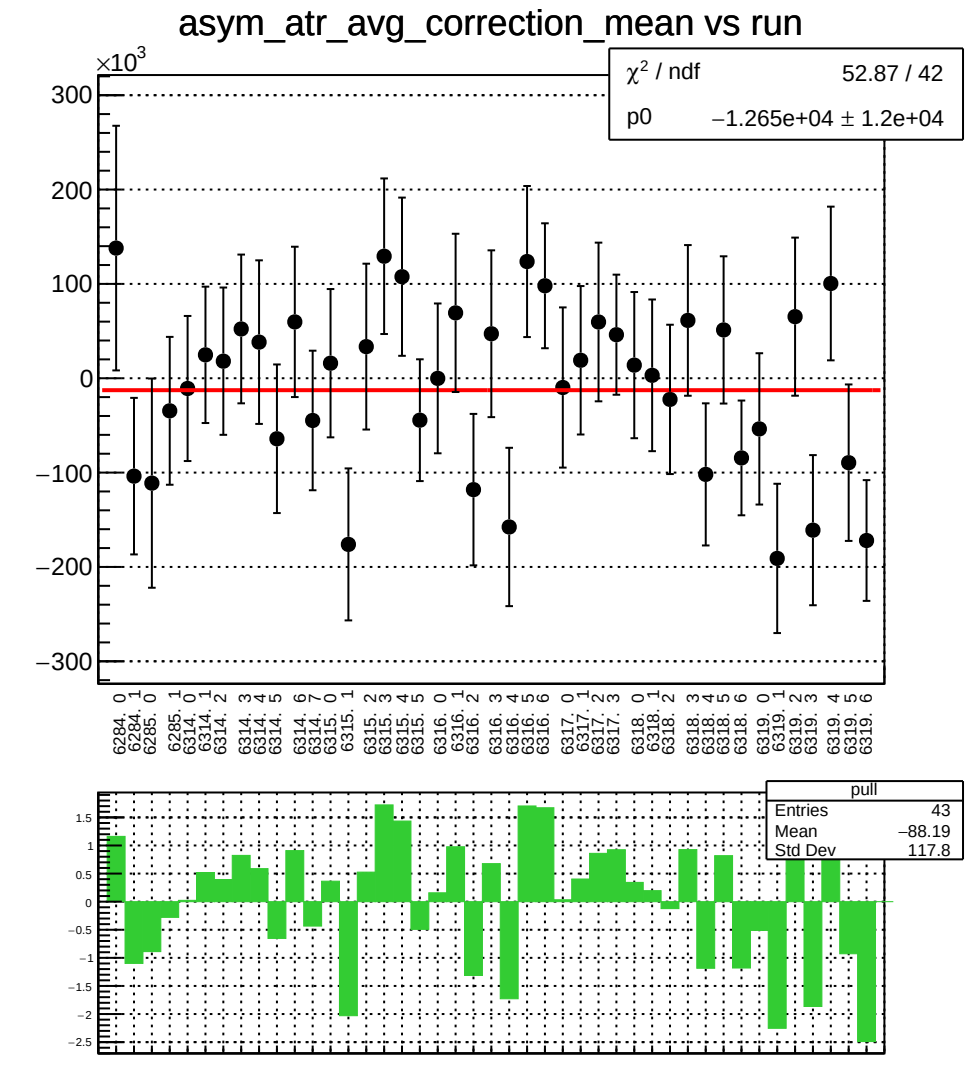

asym_atl_dd_mean vs run
×10^3
χ² / ndf 57.57 / 42
p0 −5317 ± 6225
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −242.9
Std Dev 269.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

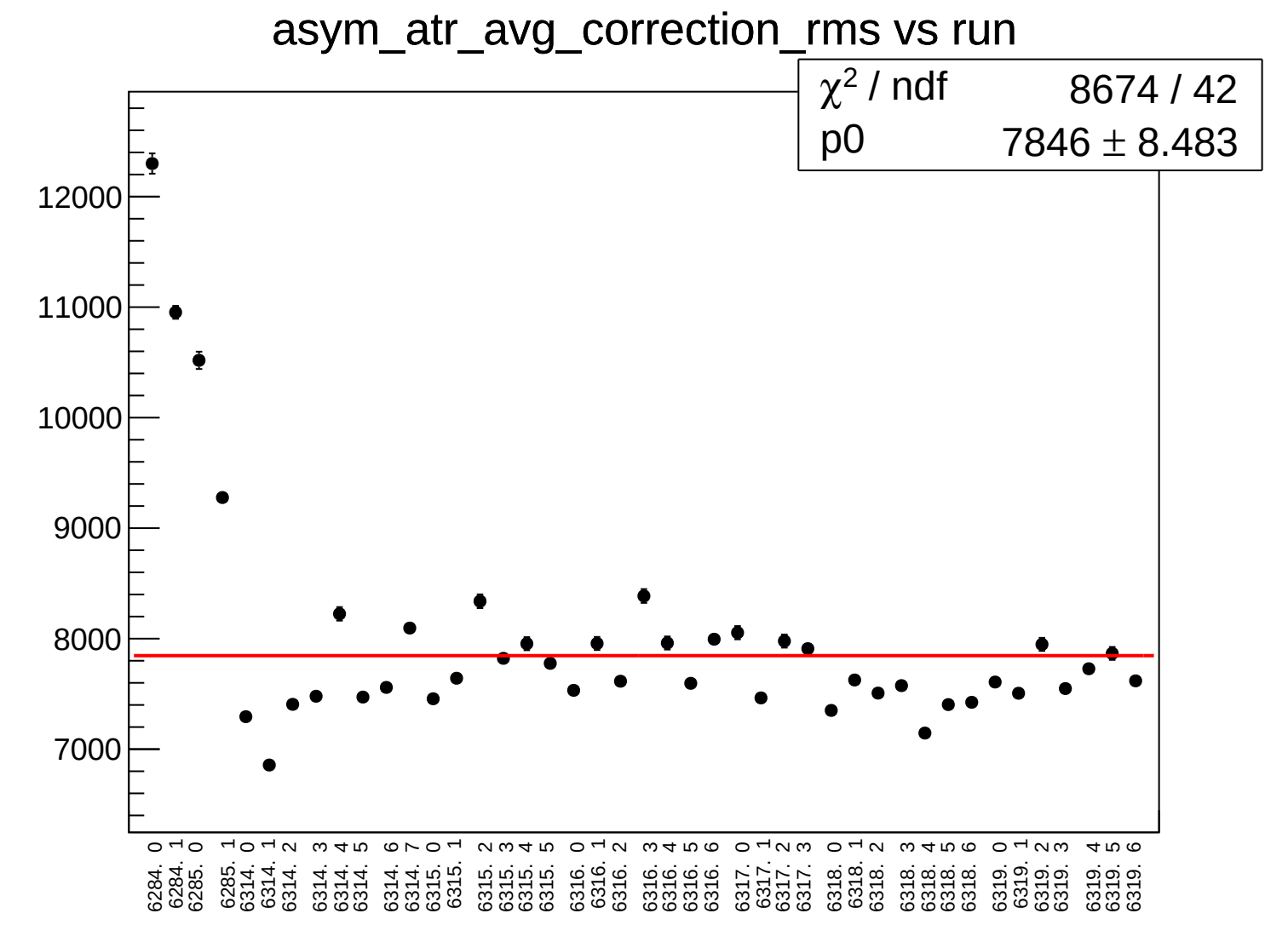

pull1D
Entries 43
Mean 0.006232
Std Dev 1.157
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

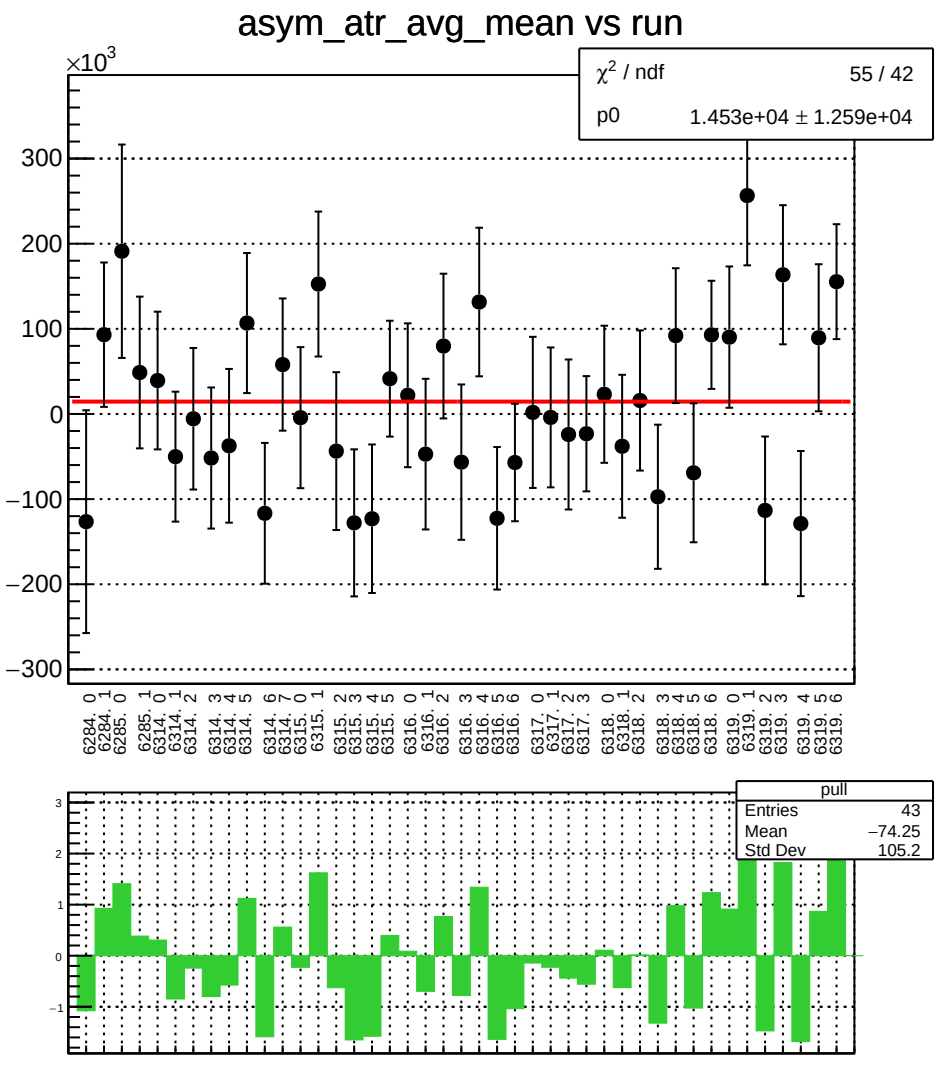

asym_atl_dd_rms vs run
χ² / ndf 7740 / 42
p0 4073 ± 4.402
6000
5500
5000
4500
4000
3500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

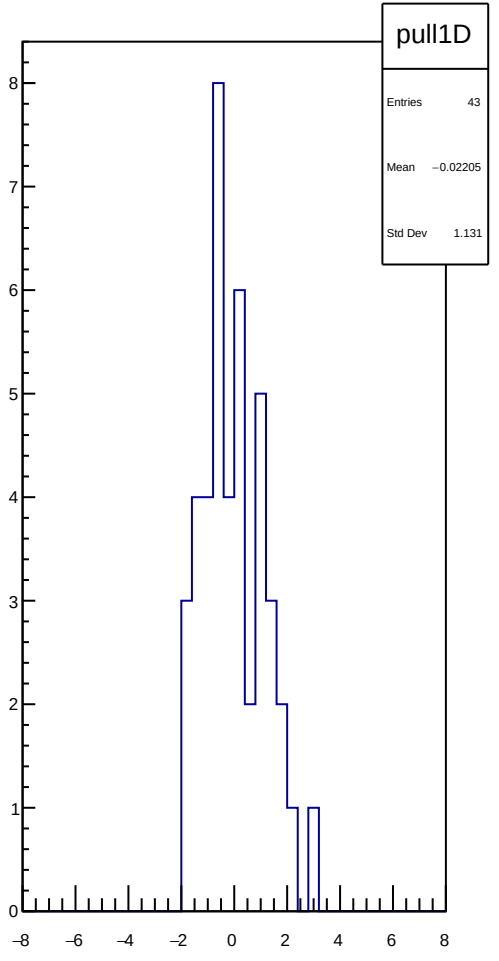

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 47.36 / 42
p0 2555 ± 3974
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 370.5
Std Dev 350.3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.004788
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

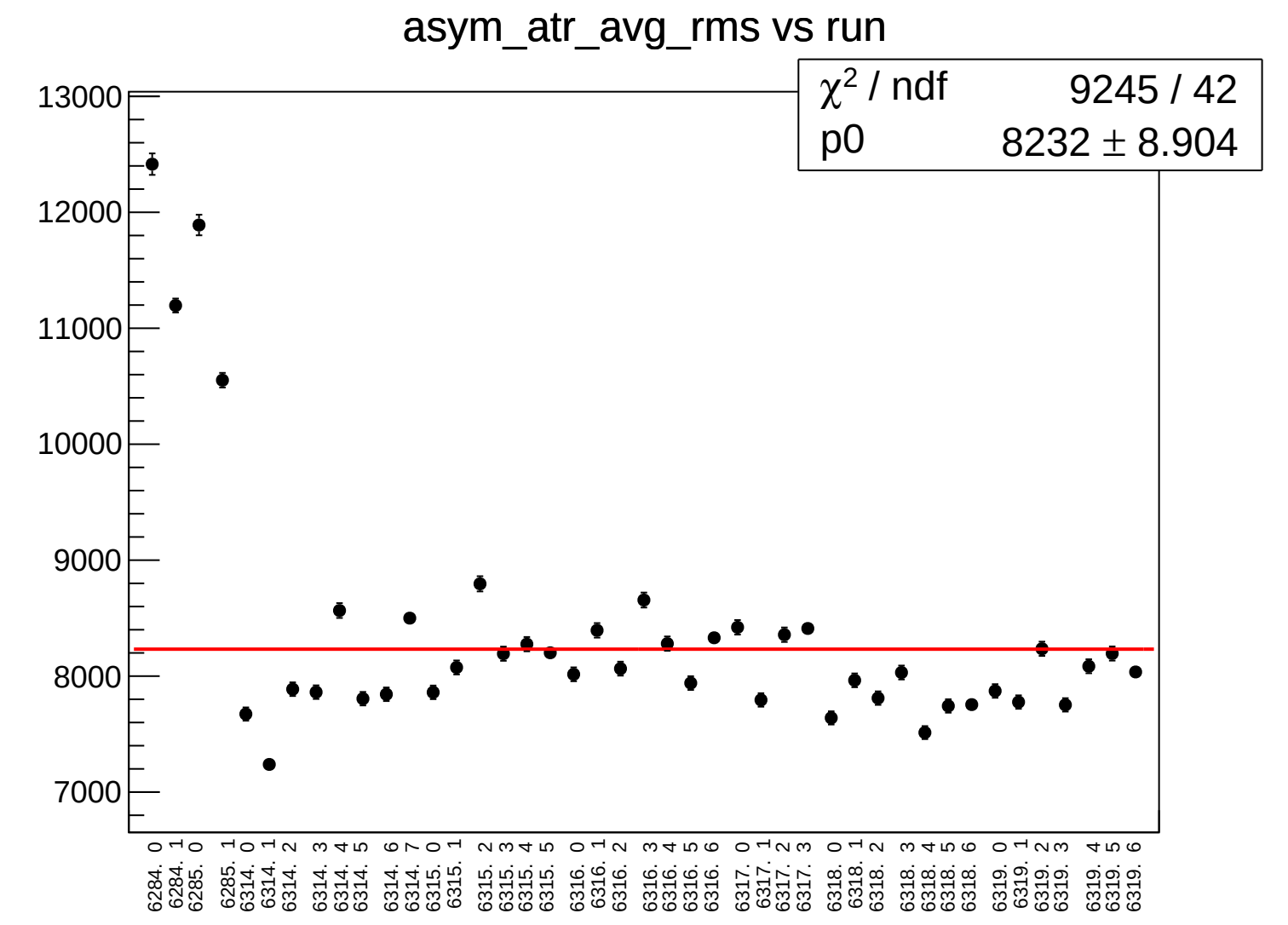

dit_asym_atr_avg_rms vs run
χ² / ndf 575.4 / 42
p0 2611 ± 2.81
2950
2900
2850
2800
2750
2700
2650
2600
2550
2500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

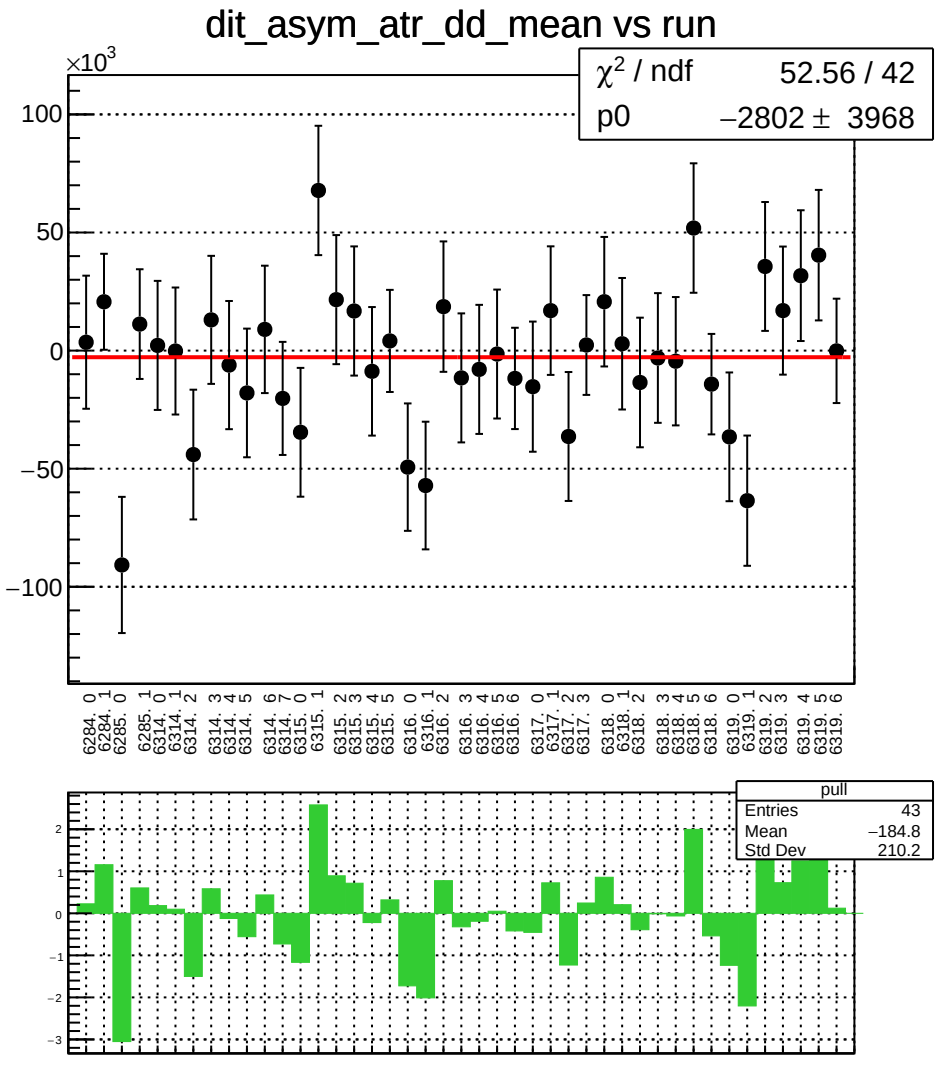

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 52.87 / 42
p0 −1.265e+04 ± 1.2e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −88.19
Std Dev 117.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02365
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

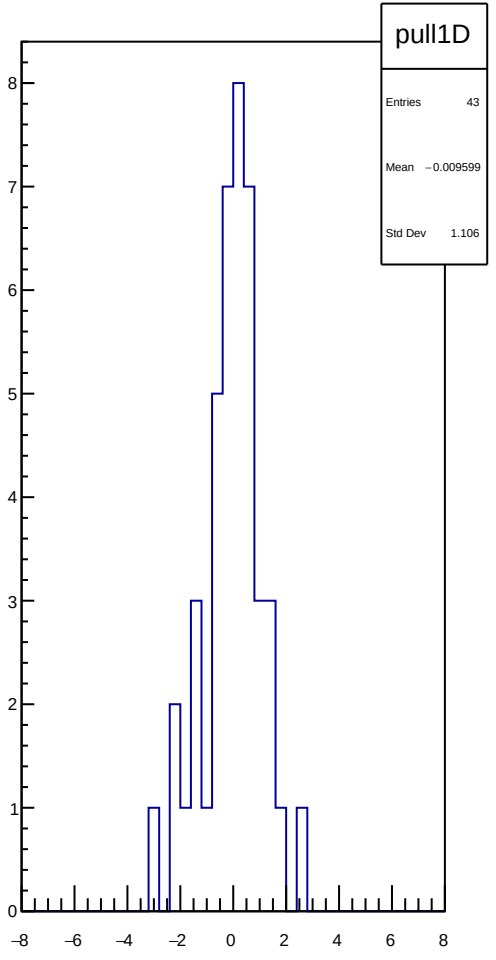

asym_atr_avg_correction_rms vs run
χ² / ndf 8674 / 42
p0 7846 ± 8.483
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

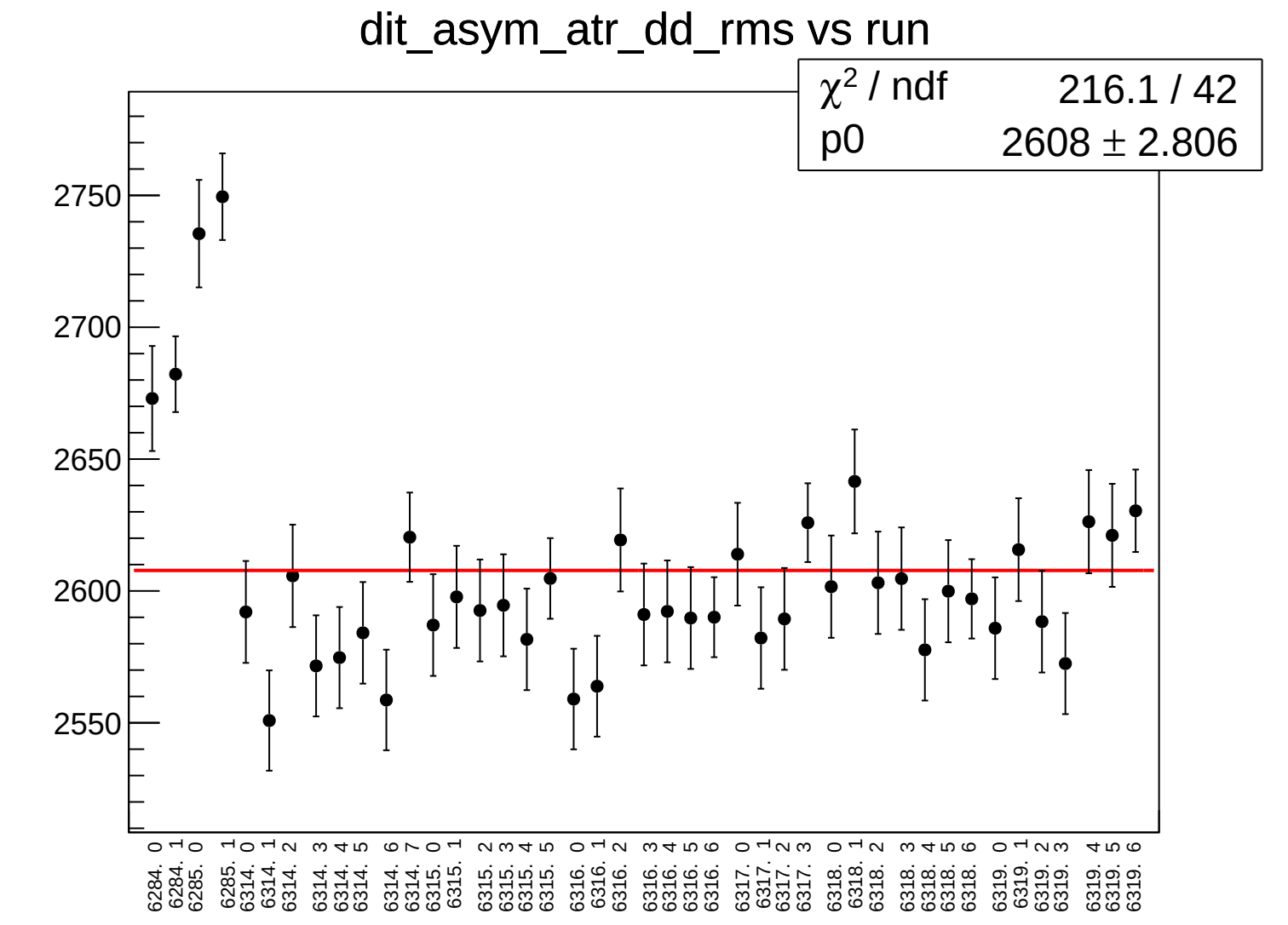

asym_atr_avg_mean vs run
×10^3
χ² / ndf 55 / 42
p0 1.453e+04 ± 1.259e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −74.25
Std Dev 105.2
3
2
1
0
−1

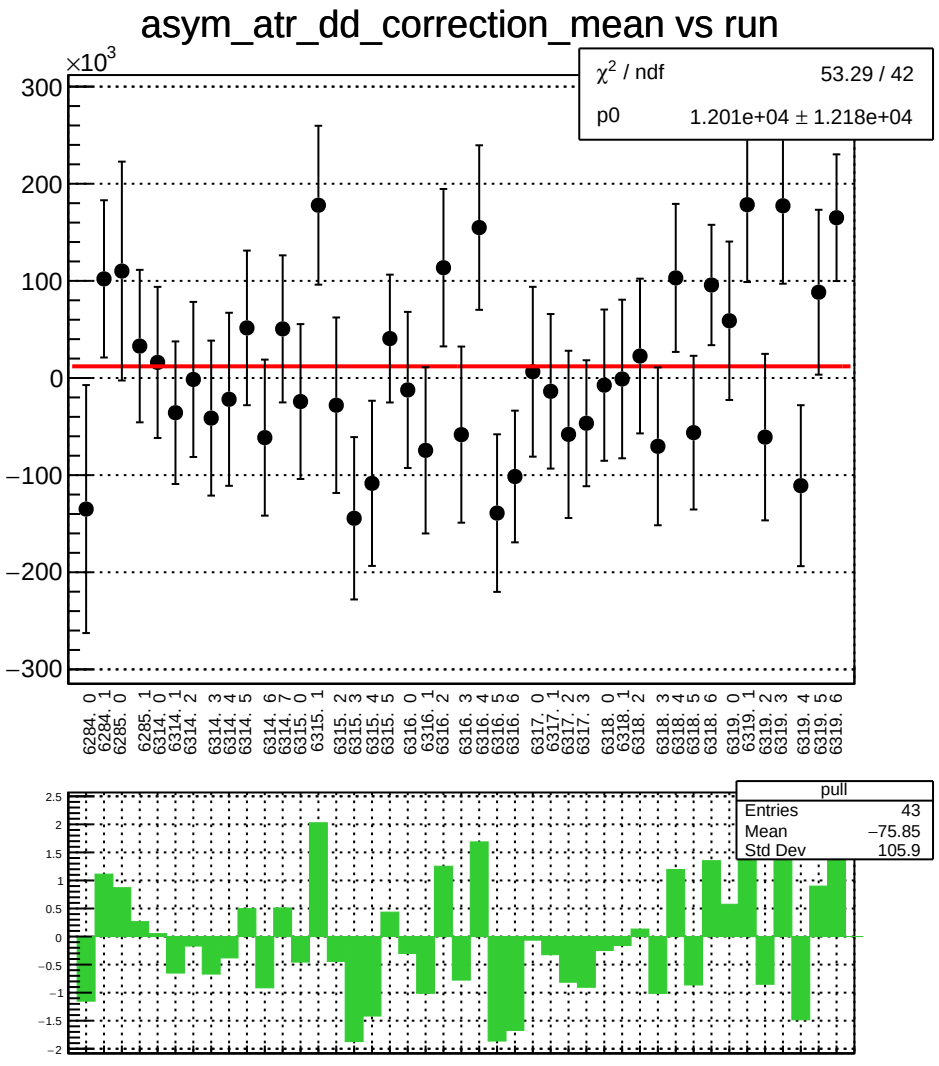

pull1D
Entries 43
Mean −0.02205
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

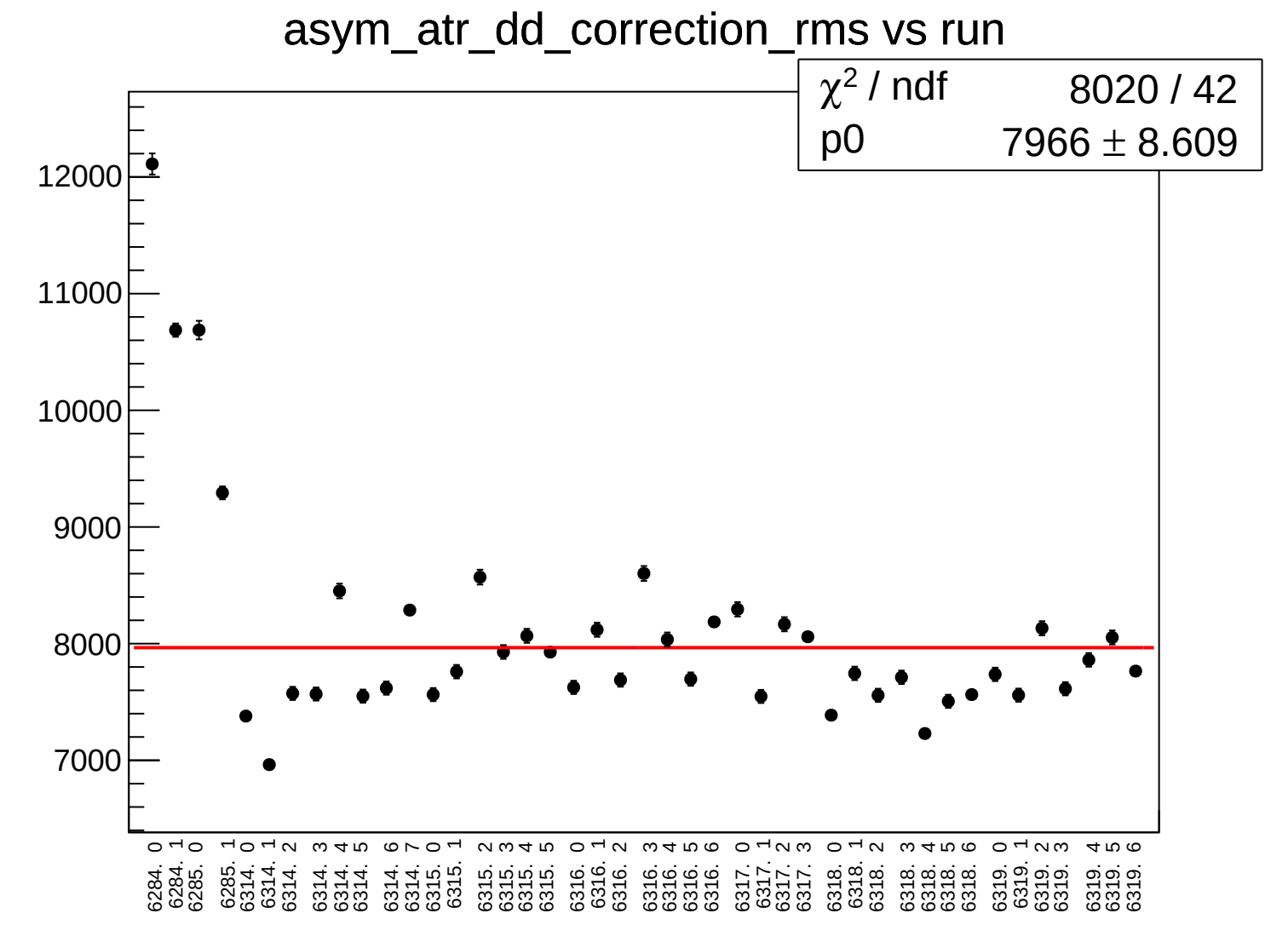

asym_atr_avg_rms vs run
χ² / ndf 9245 / 42
p0 8232 ± 8.904
13000
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

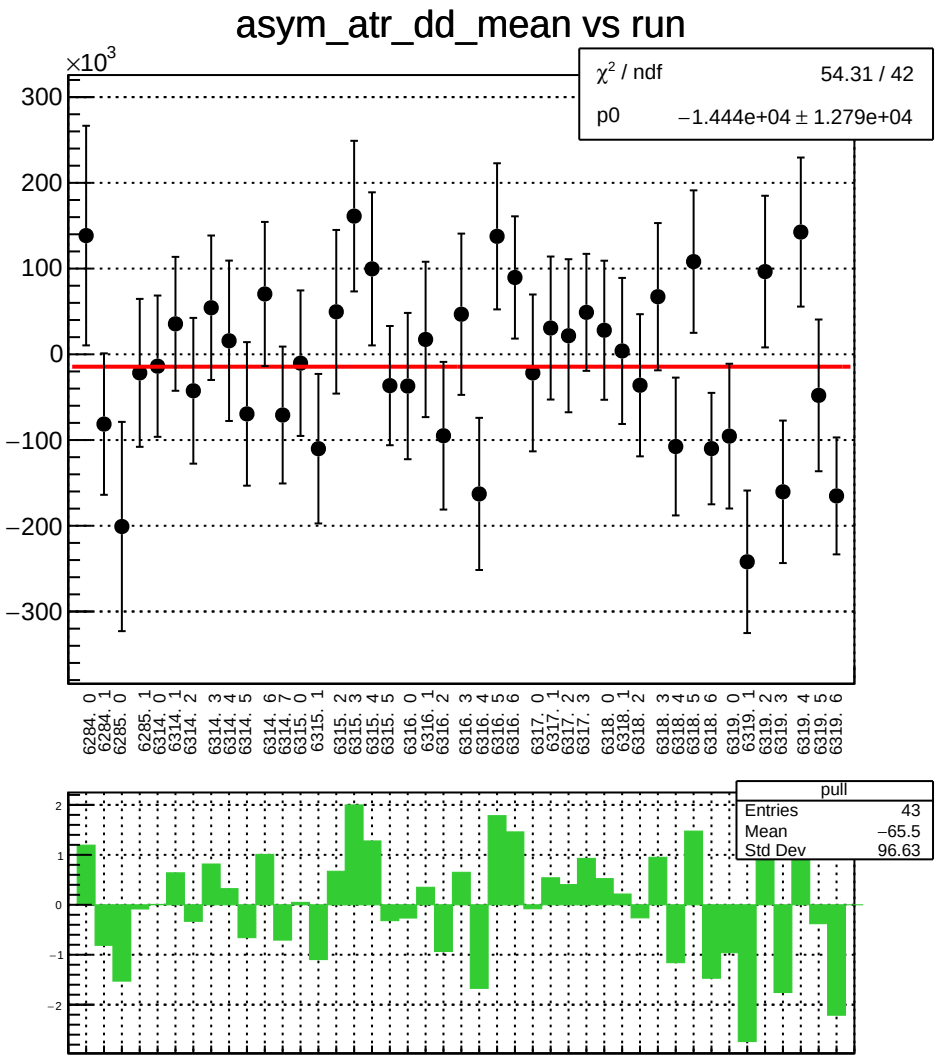

dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 52.56 / 42
p0 −2802 ± 3968
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −184.8
Std Dev 210.2
2
1
0
−1
−2
−3

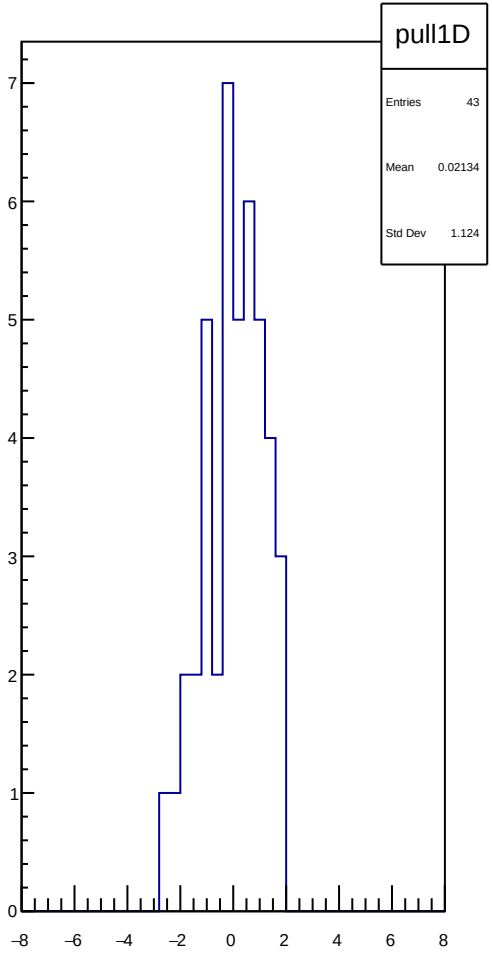

pull1D
Entries 43
Mean −0.009599
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

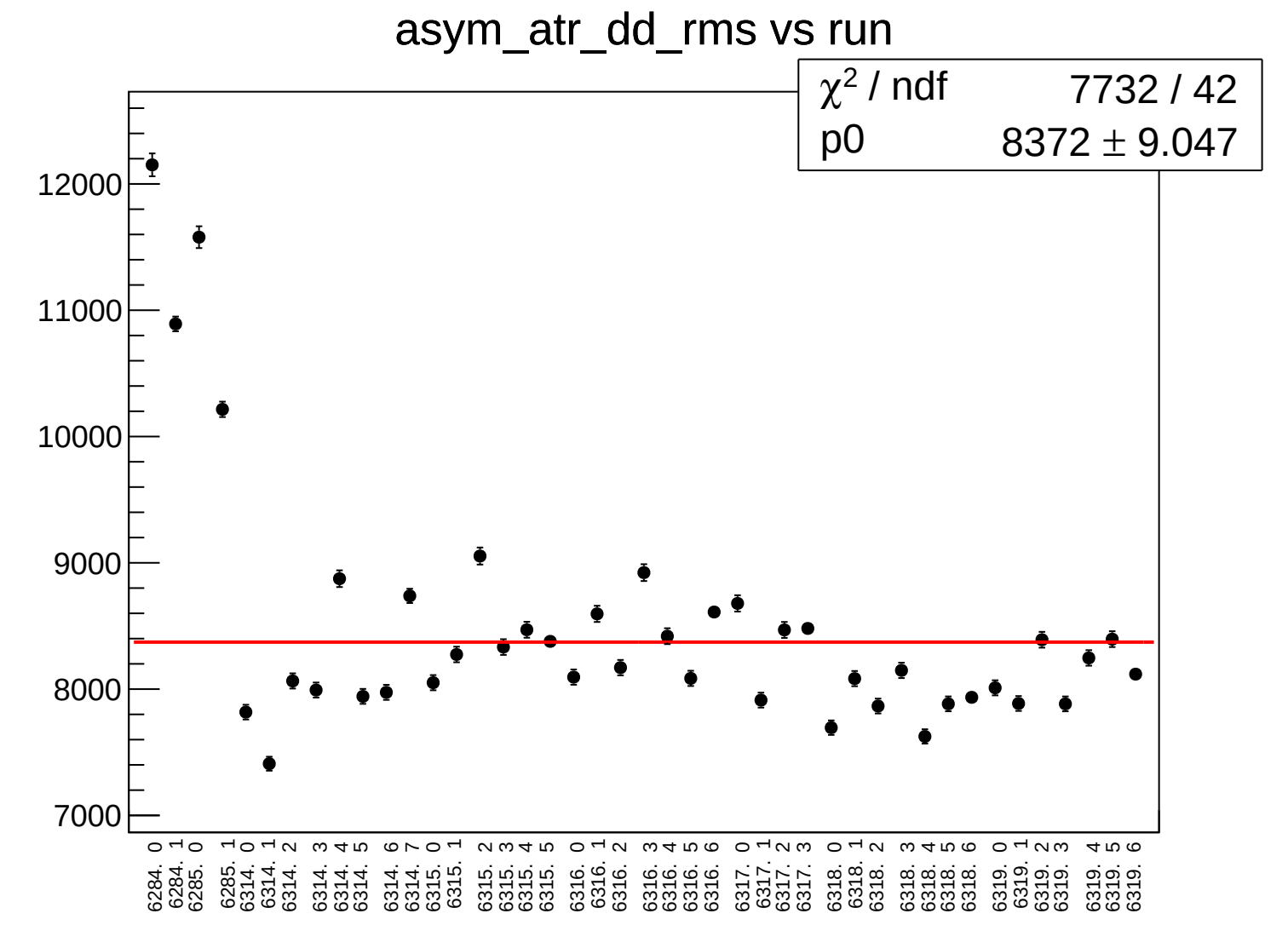

dit_asym_atr_dd_rms vs run
χ² / ndf 216.1 / 42
p0 2608 ± 2.806
2750
2700
2650
2600
2550
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

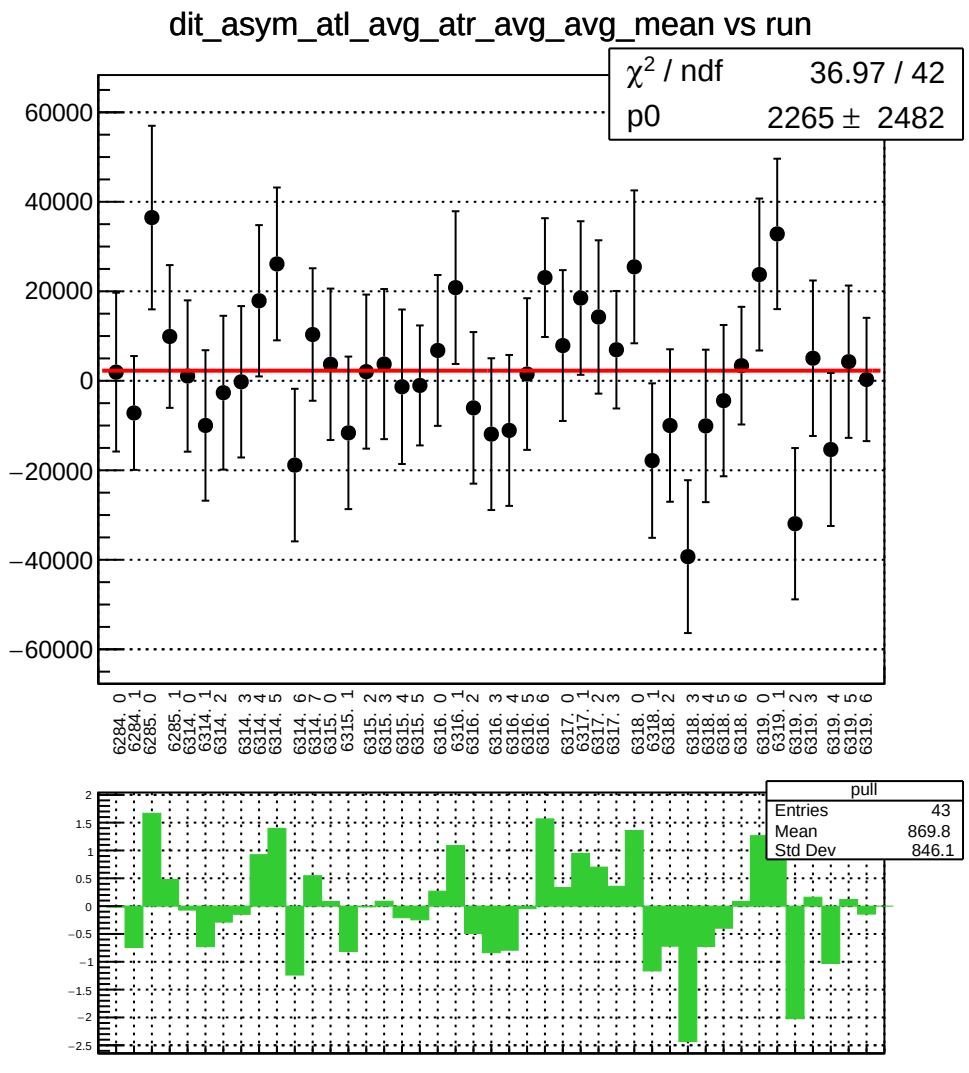

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 53.29 / 42
p0 1.201e+04 ± 1.218e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −75.85
Std Dev 105.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02571
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

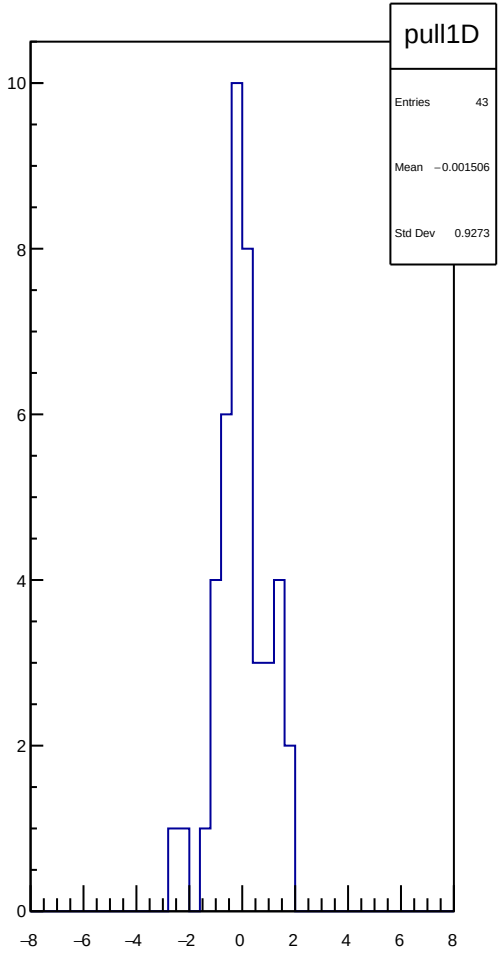

asym_atr_dd_correction_rms vs run
χ² / ndf 8020 / 42
p0 7966 ± 8.609
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

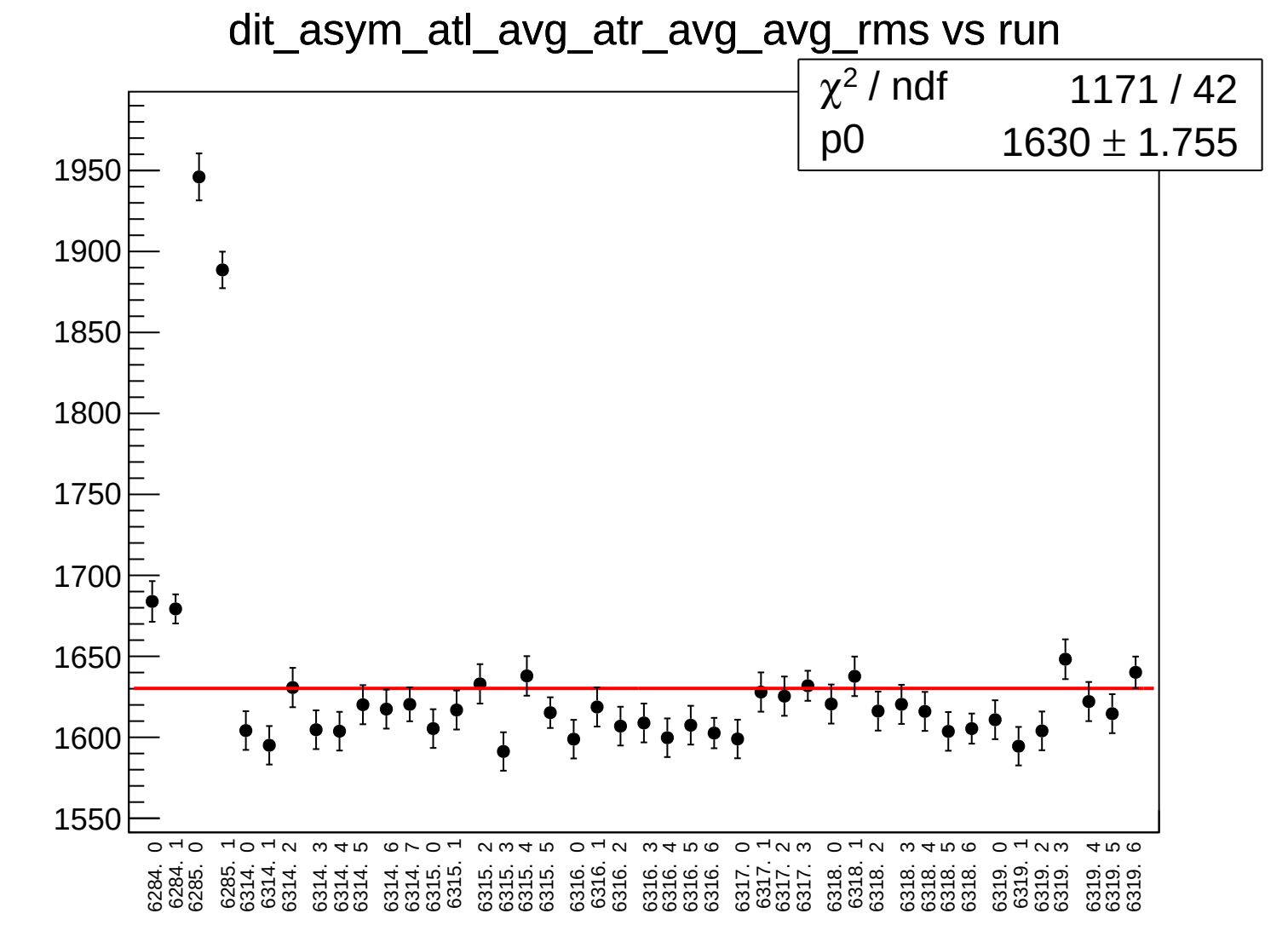

asym_atr_dd_mean vs run
×10^3
χ² / ndf 54.31 / 42
p0 −1.444e+04 ± 1.279e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −65.5
Std Dev 96.63
2
1
0
−1
−2

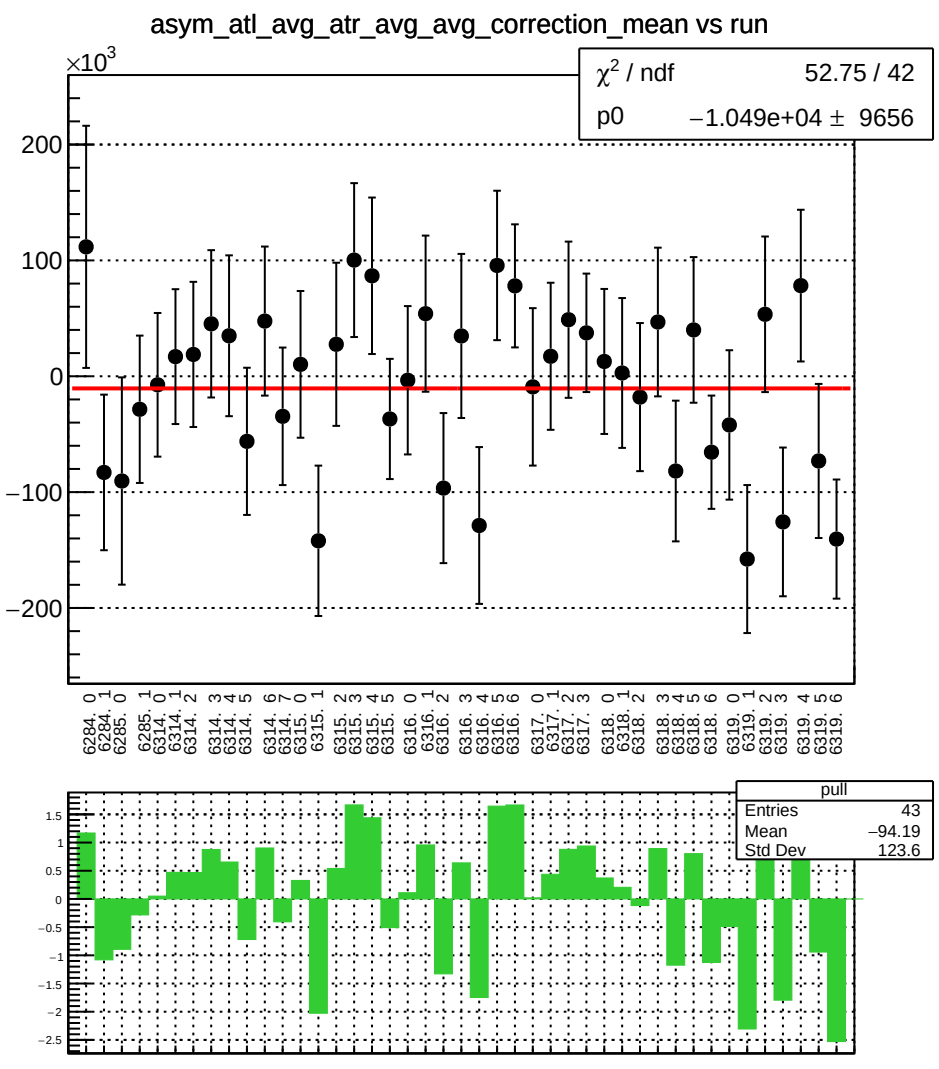

pull1D
Entries 43
Mean 0.02134
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

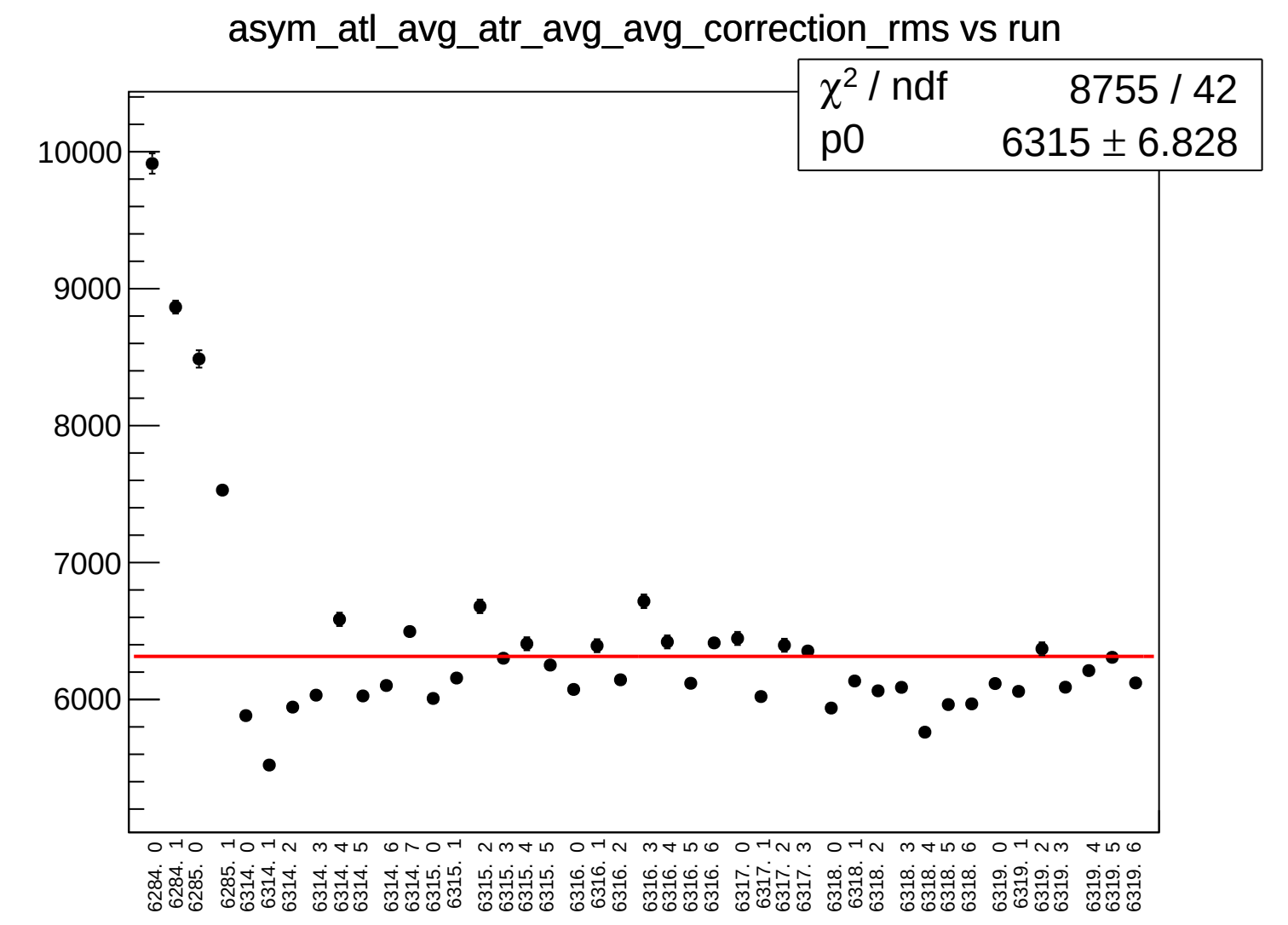

asym_atr_dd_rms vs run
χ² / ndf 7732 / 42
p0 8372 ± 9.047
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

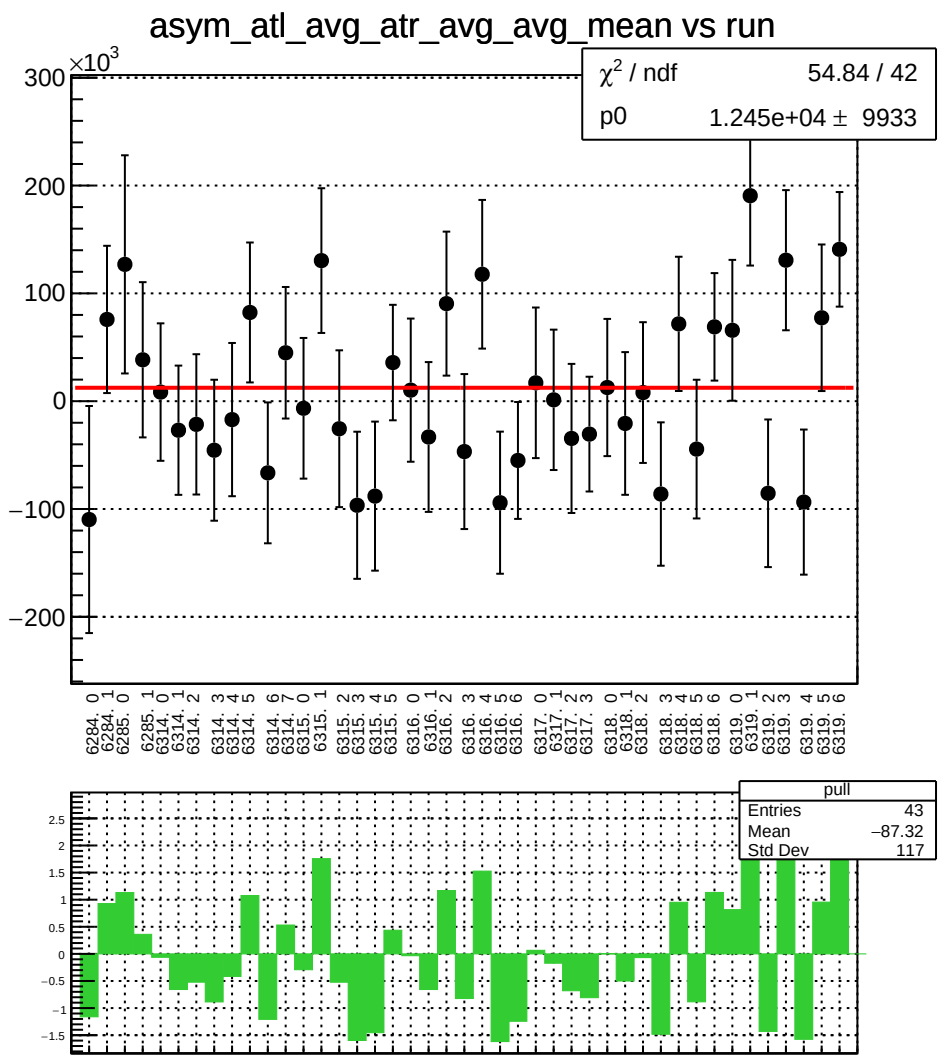

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 36.97 / 42
p0 2265 ± 2482
pull
Entries 43
Mean 869.8
Std Dev 846.1

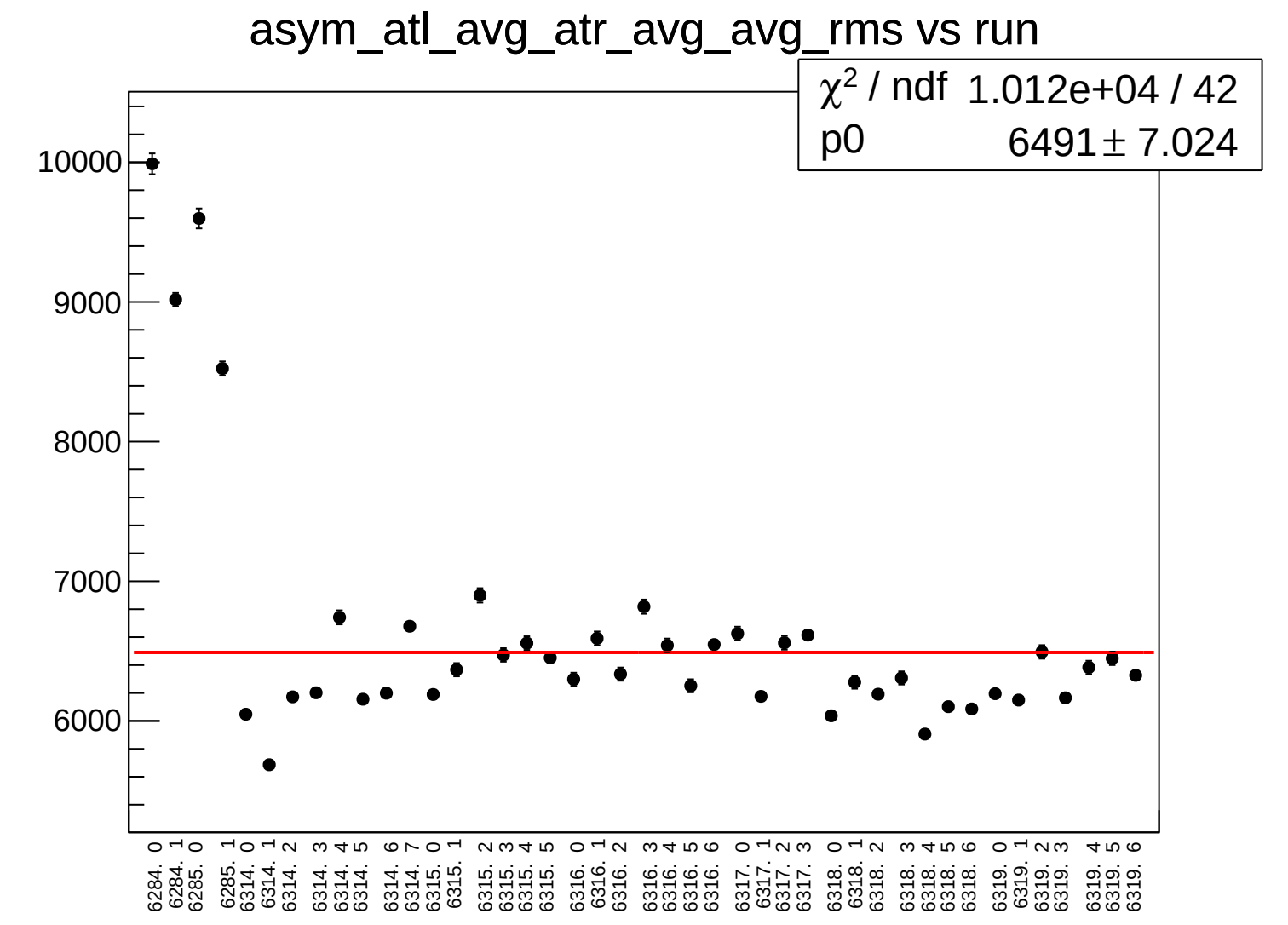

pull1D
Entries 43
Mean −0.001506
Std Dev 0.9273

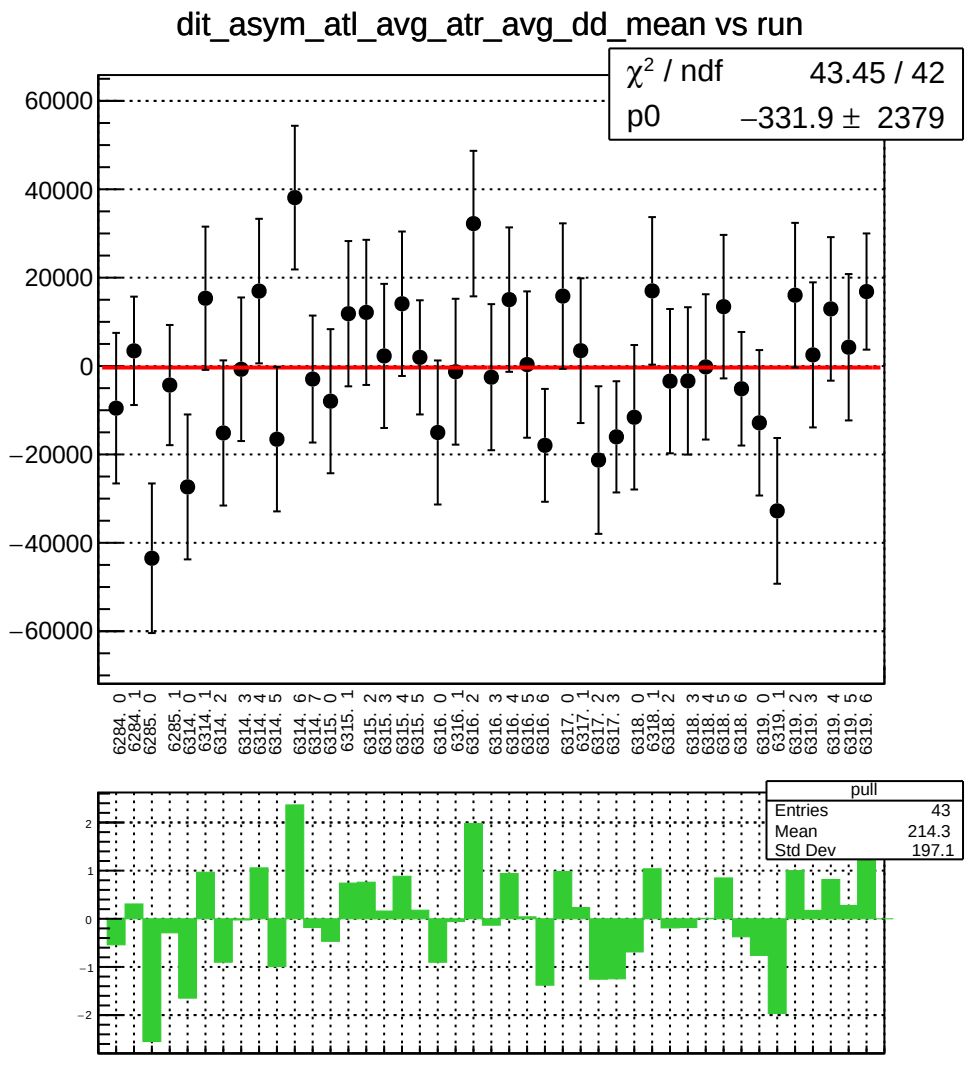

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1171 / 42
p0 1630 ± 1.755
1950
1900
1850
1800
1750
1700
1650
1600
1550
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

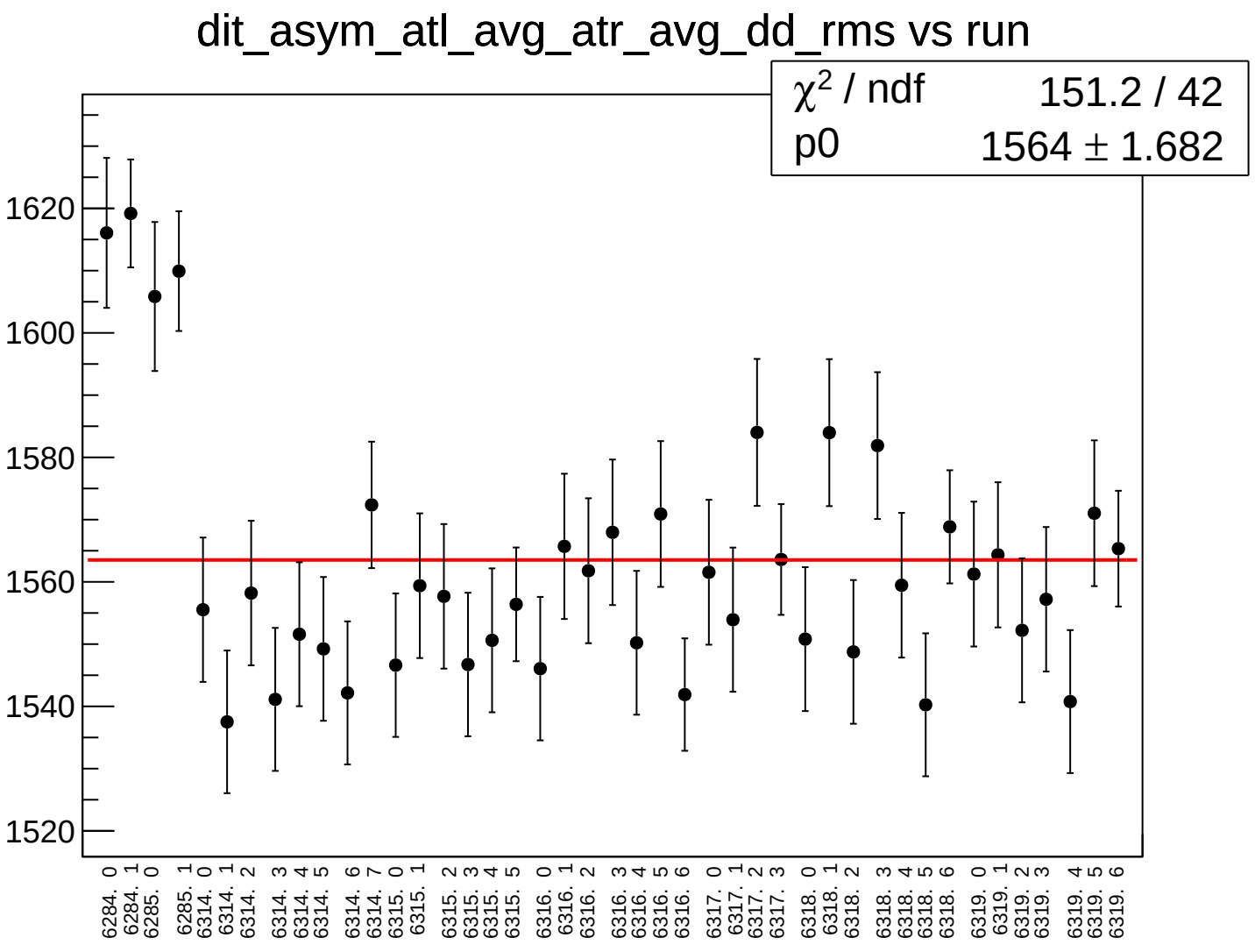

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 52.75 / 42
p0 −1.049e+04 ± 9656
200
100
0
−100
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −94.19
Std Dev 123.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02267
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

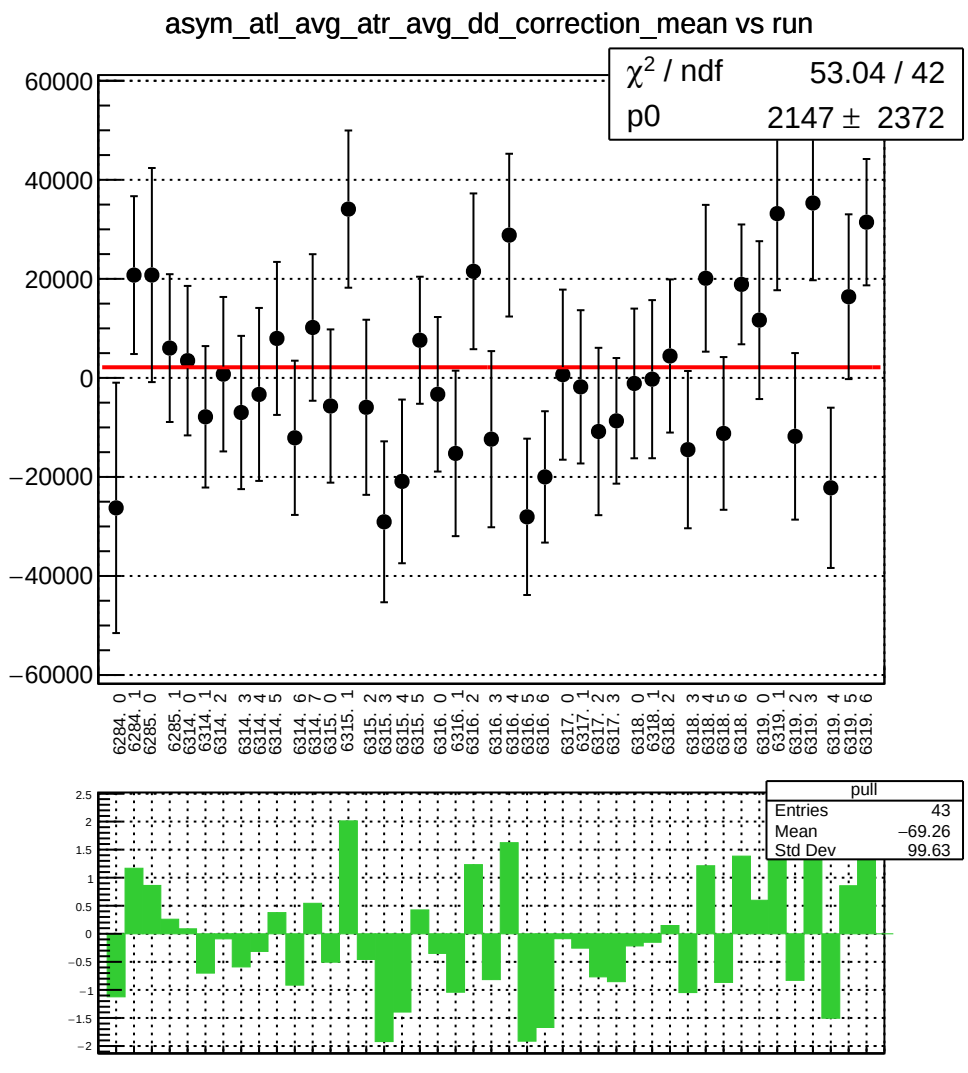

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 8755 / 42
p0 6315 ± 6.828
10000
9000
8000
7000
6000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

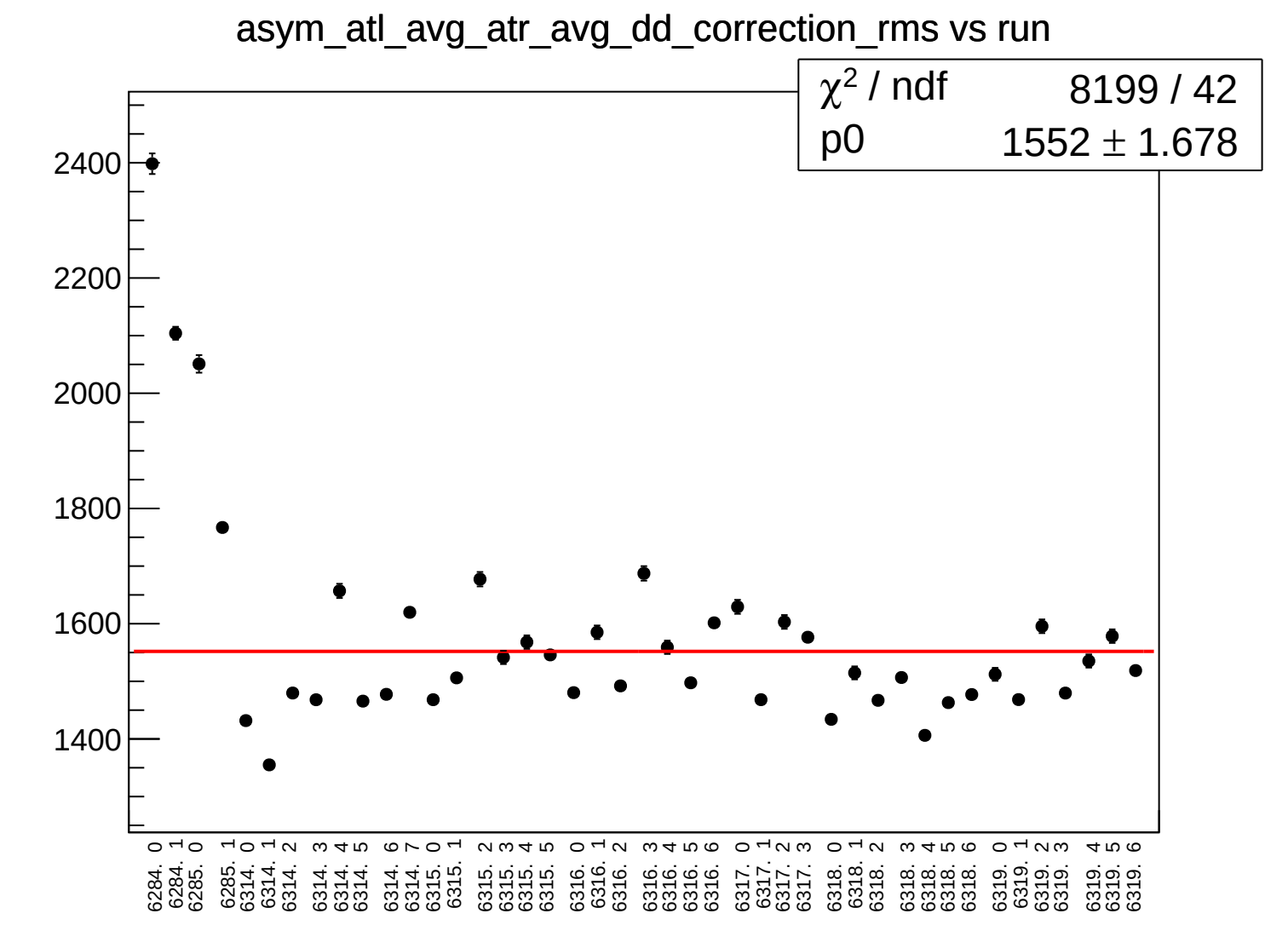

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 54.84 / 42
p0 1.245e+04 ± 9933
300
200
100
0
−100
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −87.32
Std Dev 117
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02154
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

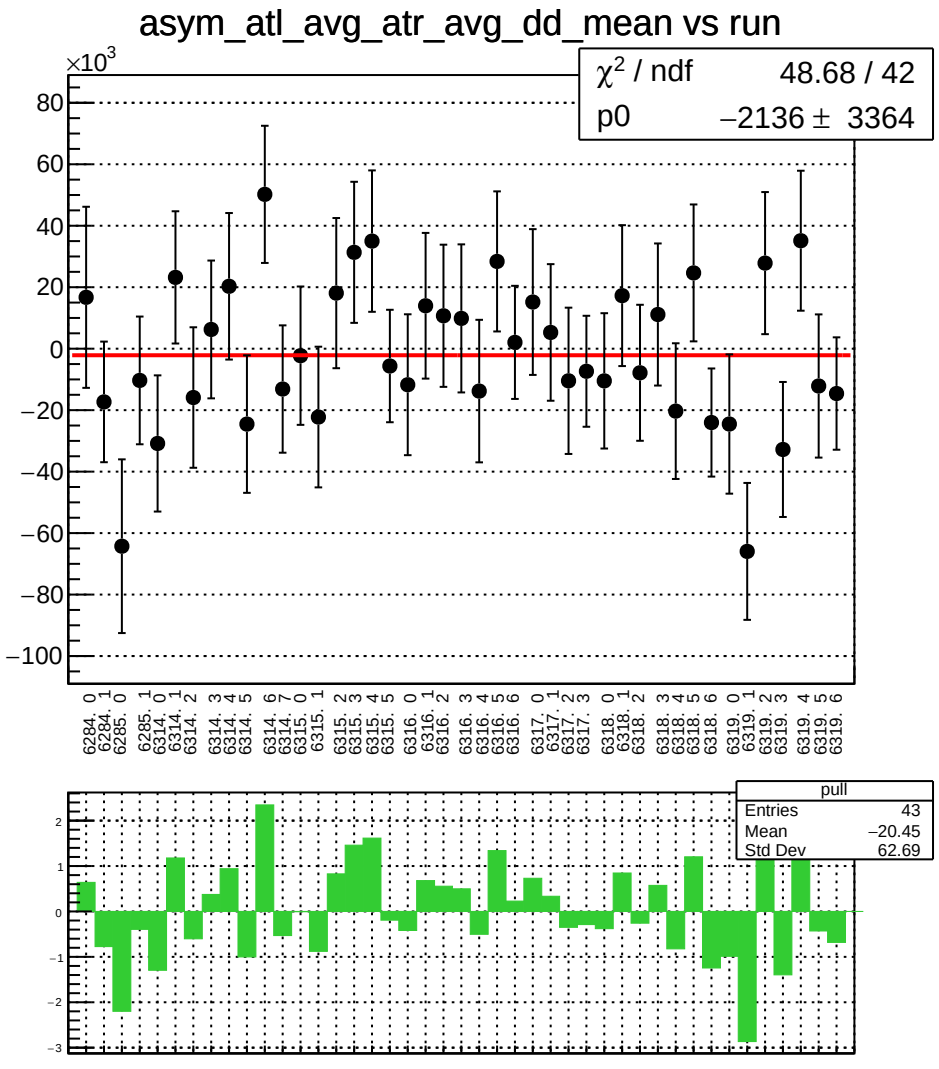

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.012e+04 / 42
p0 6491 ± 7.024
10000
9000
8000
7000
6000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

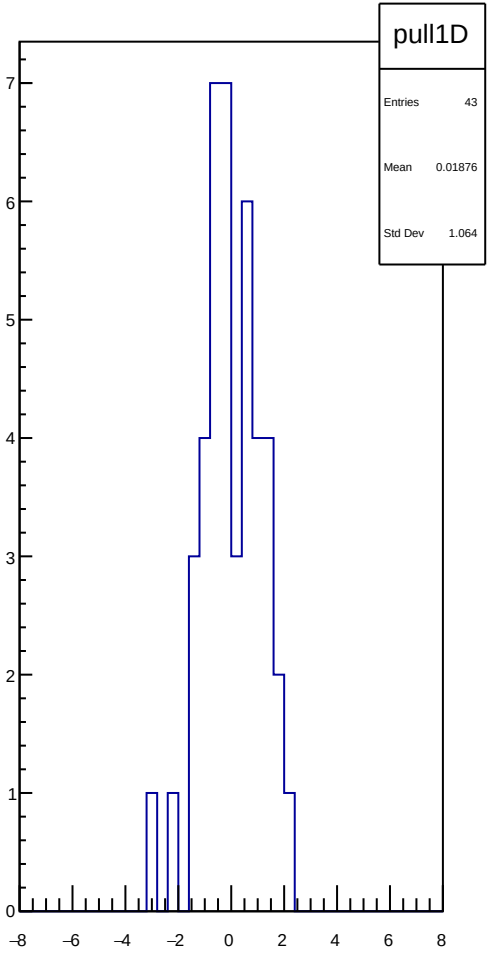

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 43.45 / 42
p0 −331.9 ± 2379
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 214.3
Std Dev 197.1
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00776
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

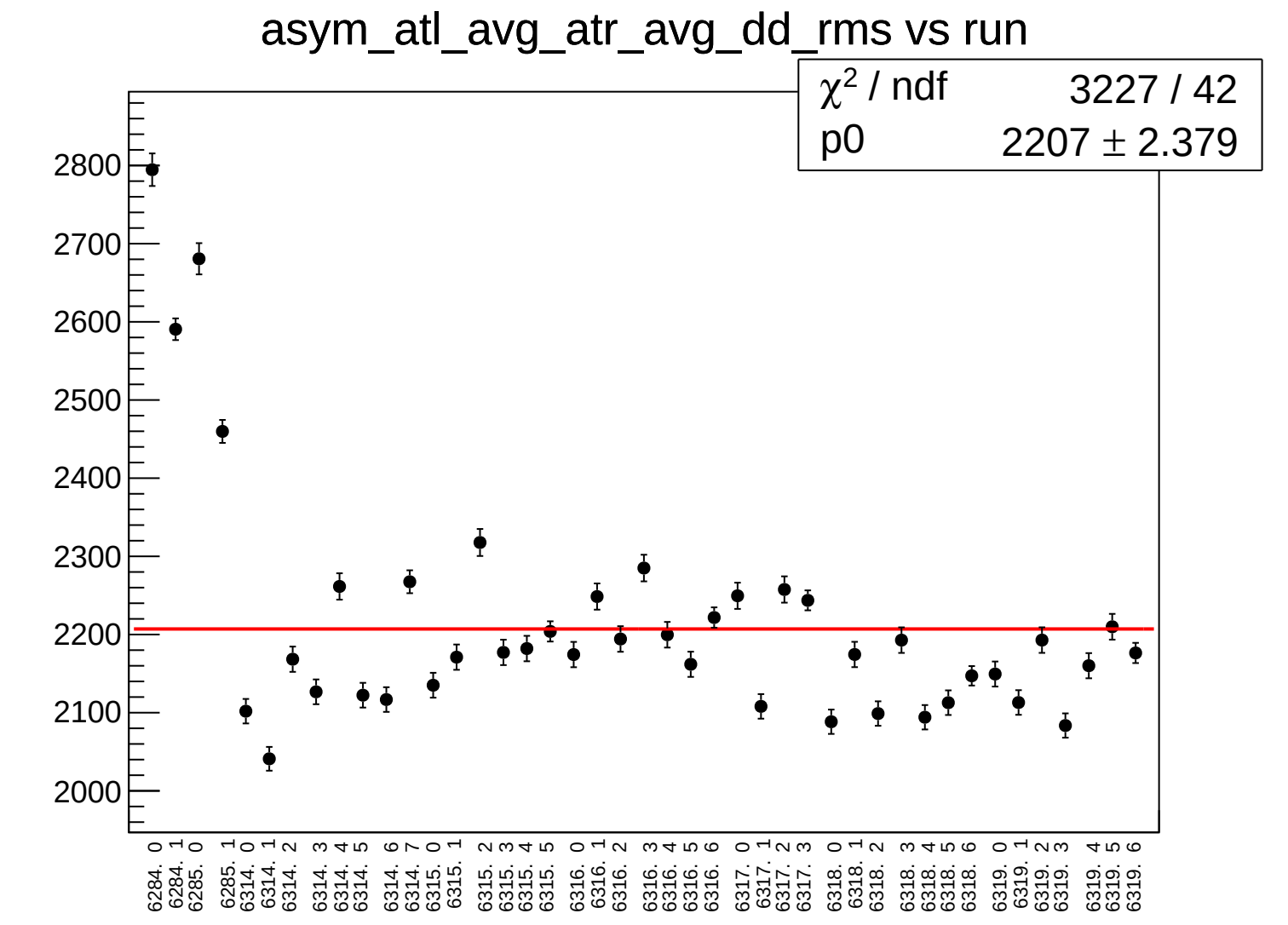

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 151.2 / 42
p0 1564 ± 1.682
1620
1600
1580
1560
1540
1520
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

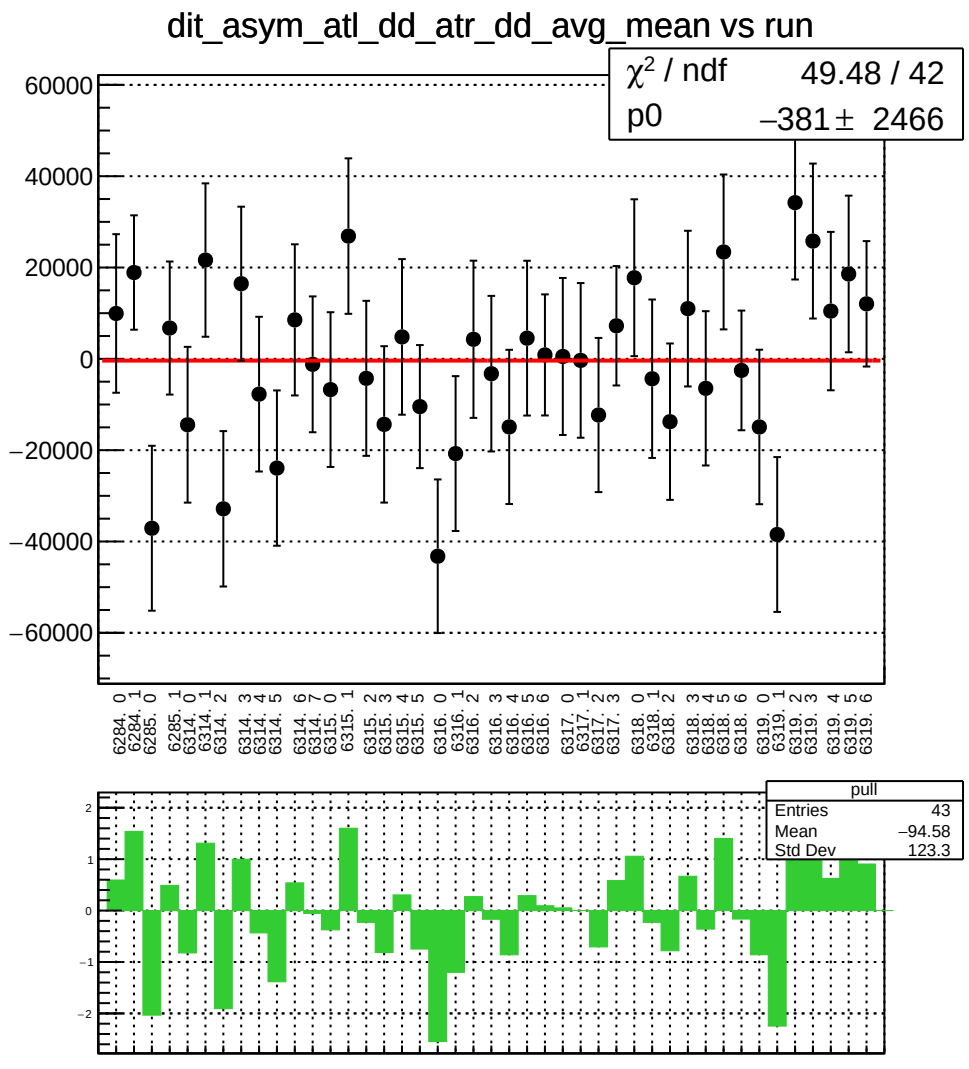

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 53.04 / 42
p0 2147 ± 2372
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −69.26
Std Dev 99.63
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02695
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

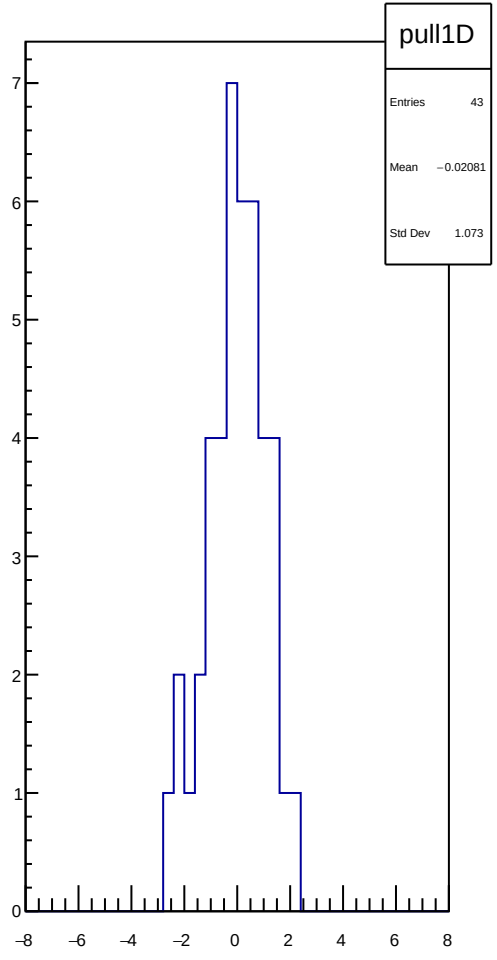

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 8199 / 42
p0 1552 ± 1.678
2400
2200
2000
1800
1600
1400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

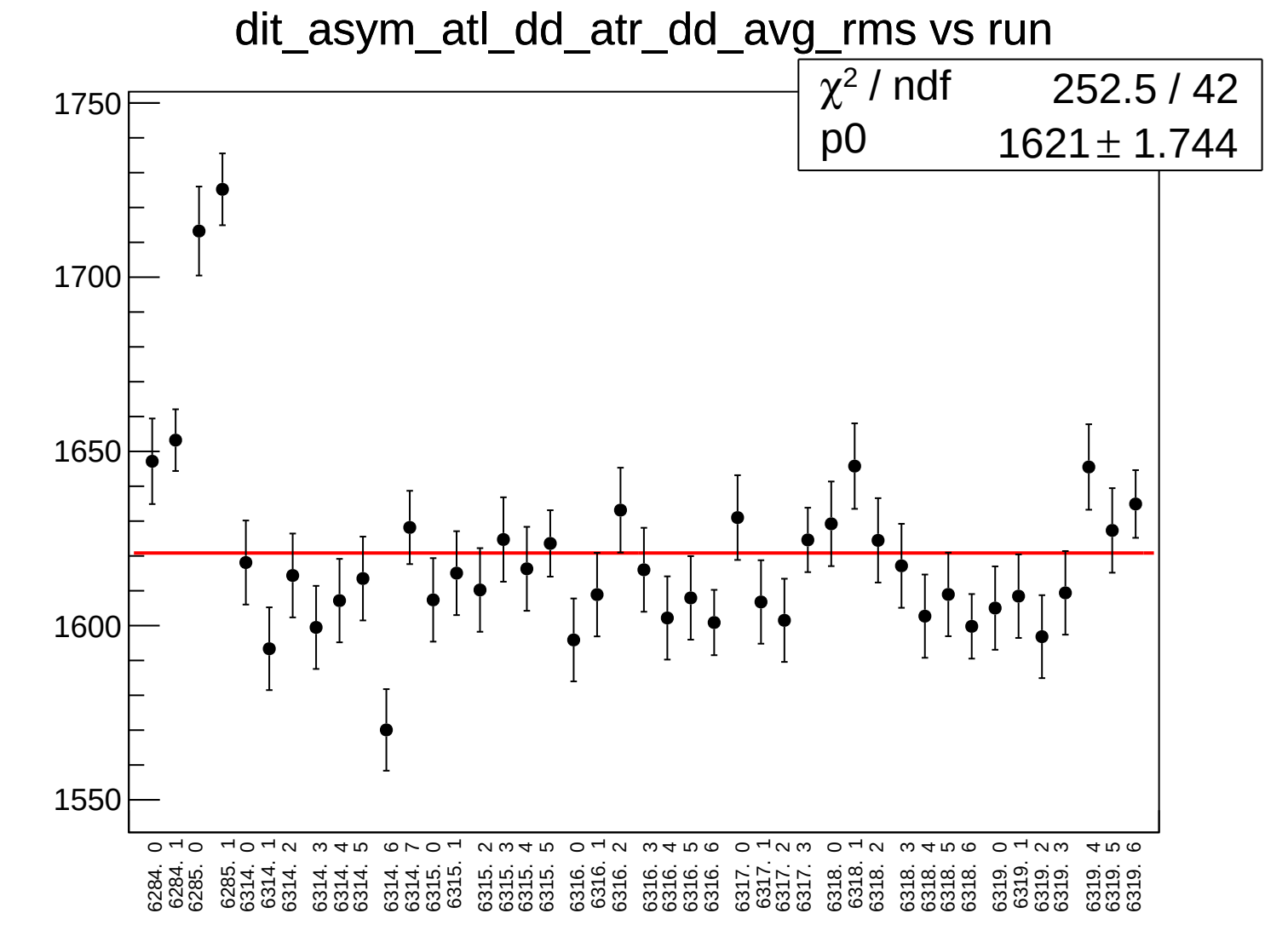

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 48.68 / 42
p0 −2136 ± 3364
pull
Entries 43
Mean −20.45
Std Dev 62.69

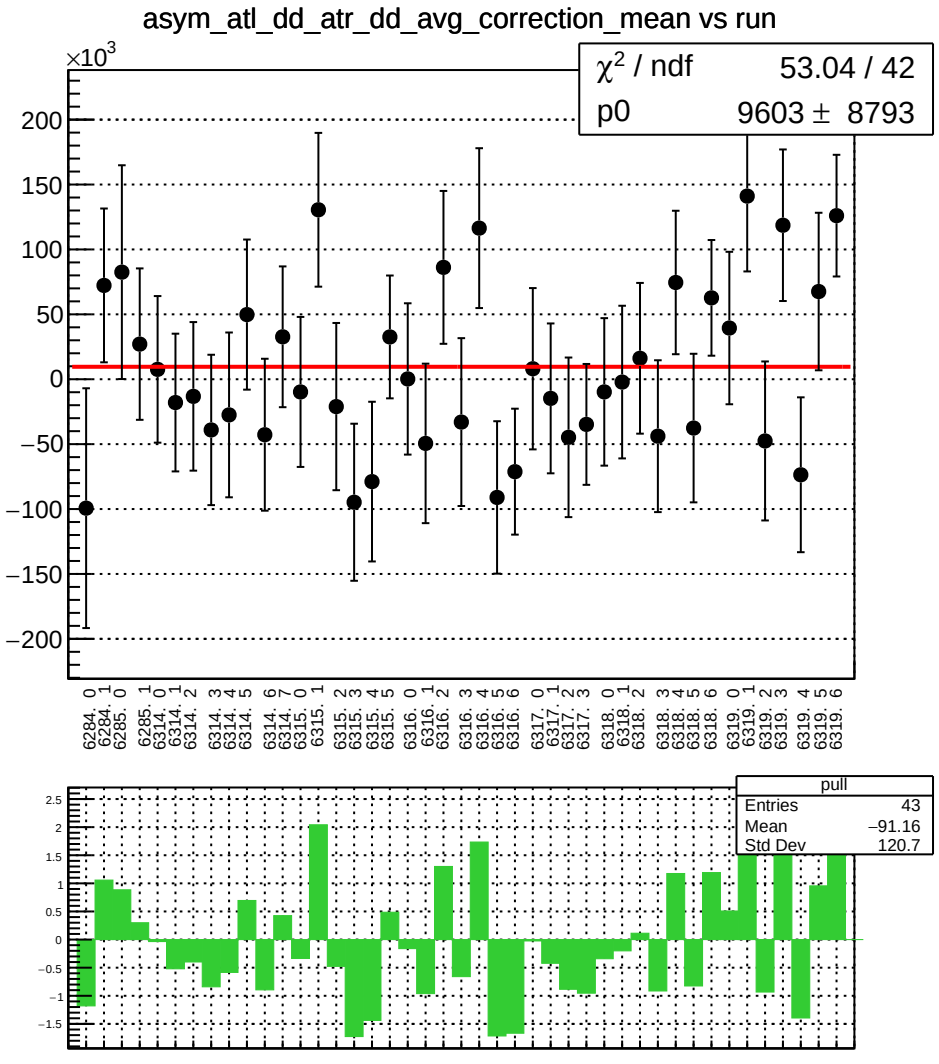

pull1D
Entries 43
Mean 0.01876
Std Dev 1.064

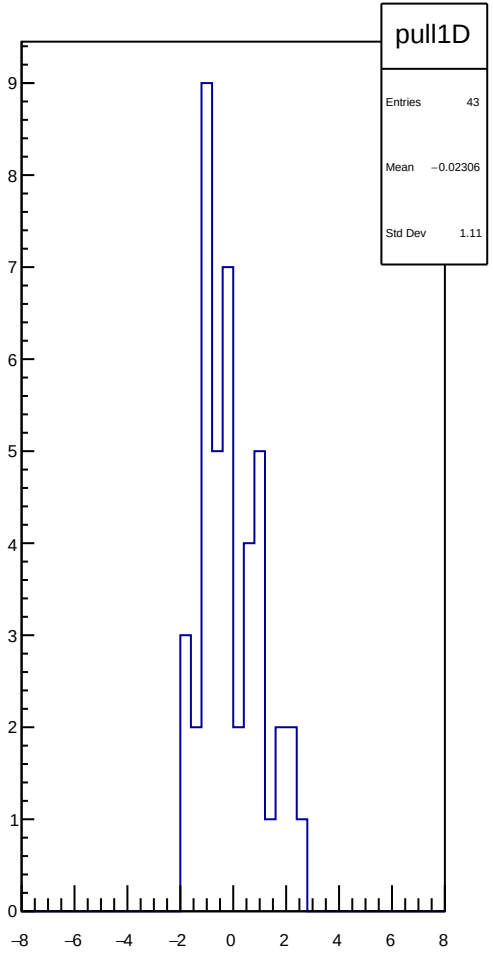

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 3227 / 42
p0 2207 ± 2.379
2800
2700
2600
2500
2400
2300
2200
2100
2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

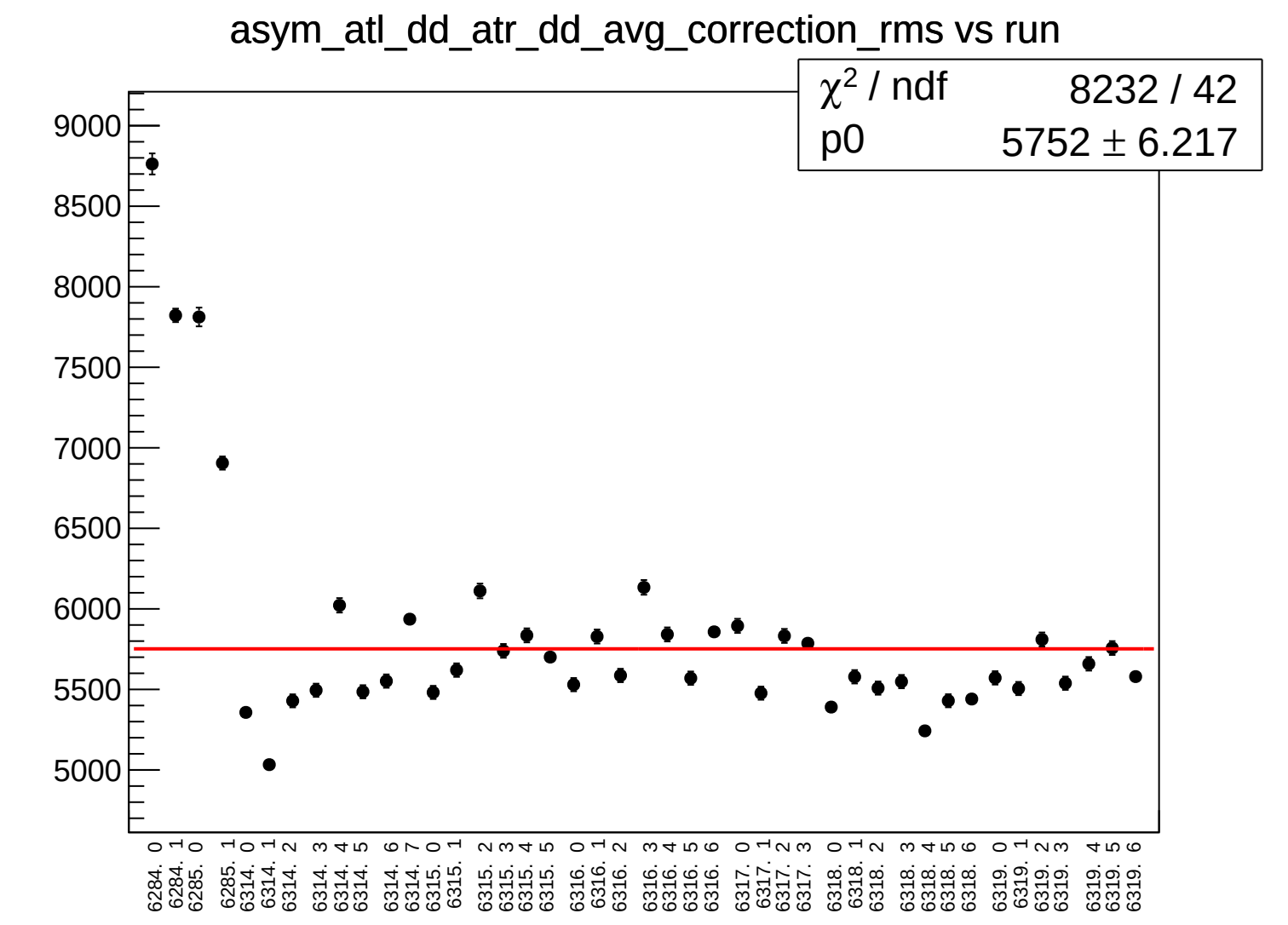

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 49.48 / 42
p0 −381 ± 2466
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −94.58
Std Dev 123.3
2
1
0
−1
−2

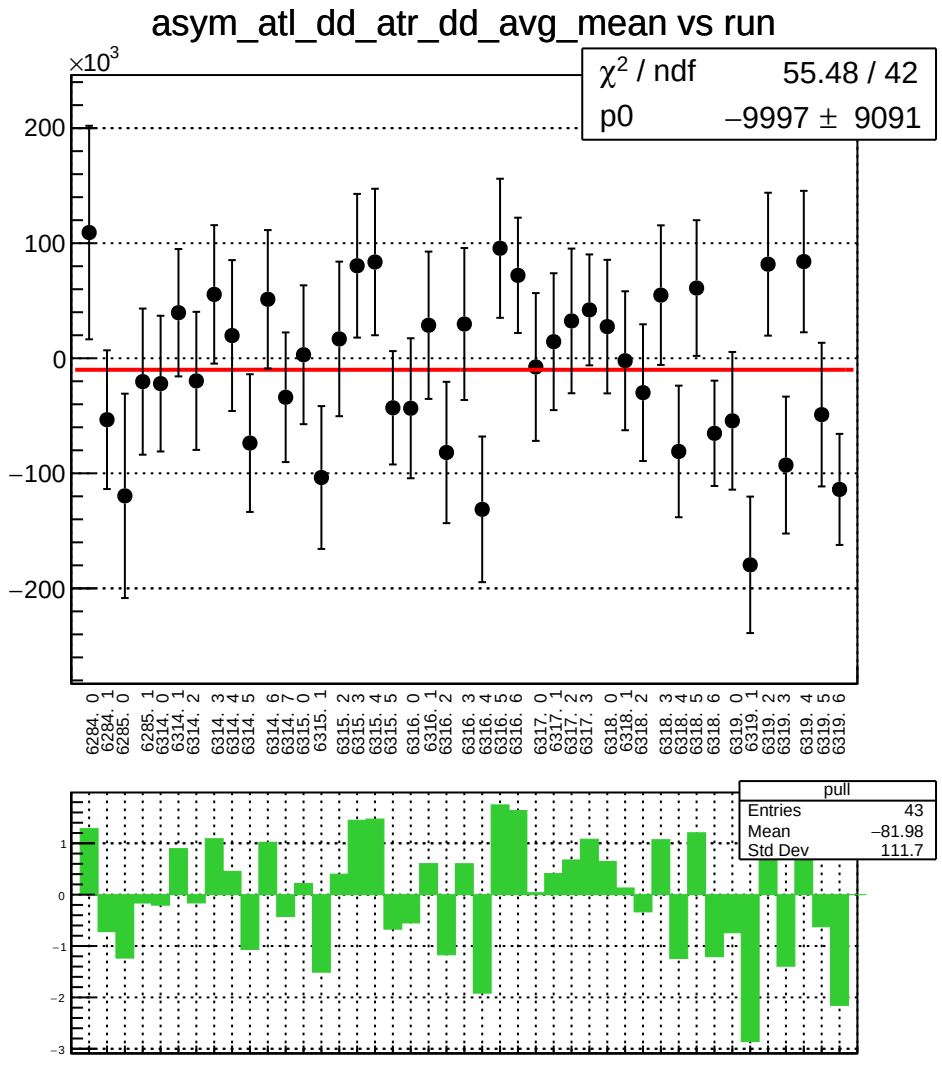

pull1D
Entries 43
Mean −0.02081
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

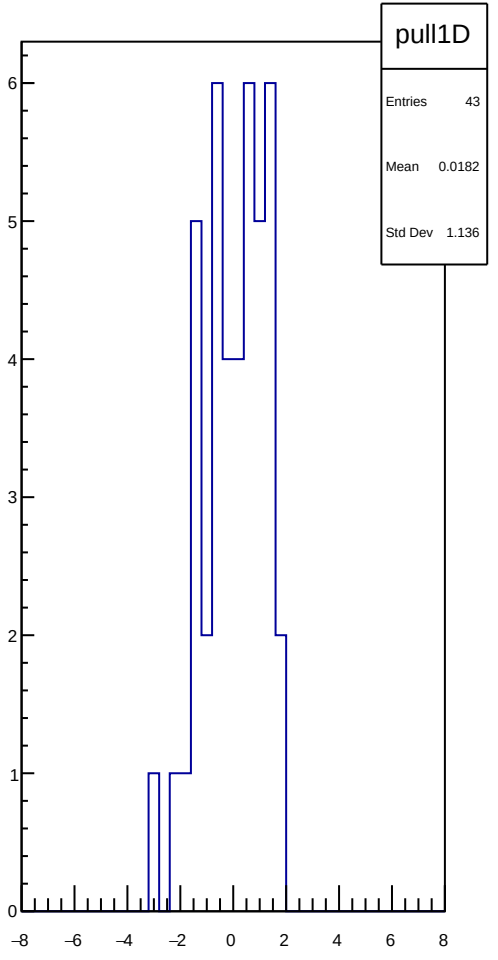

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 252.5 / 42
p0 1621 ± 1.744
1750
1700
1650
1600
1550
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

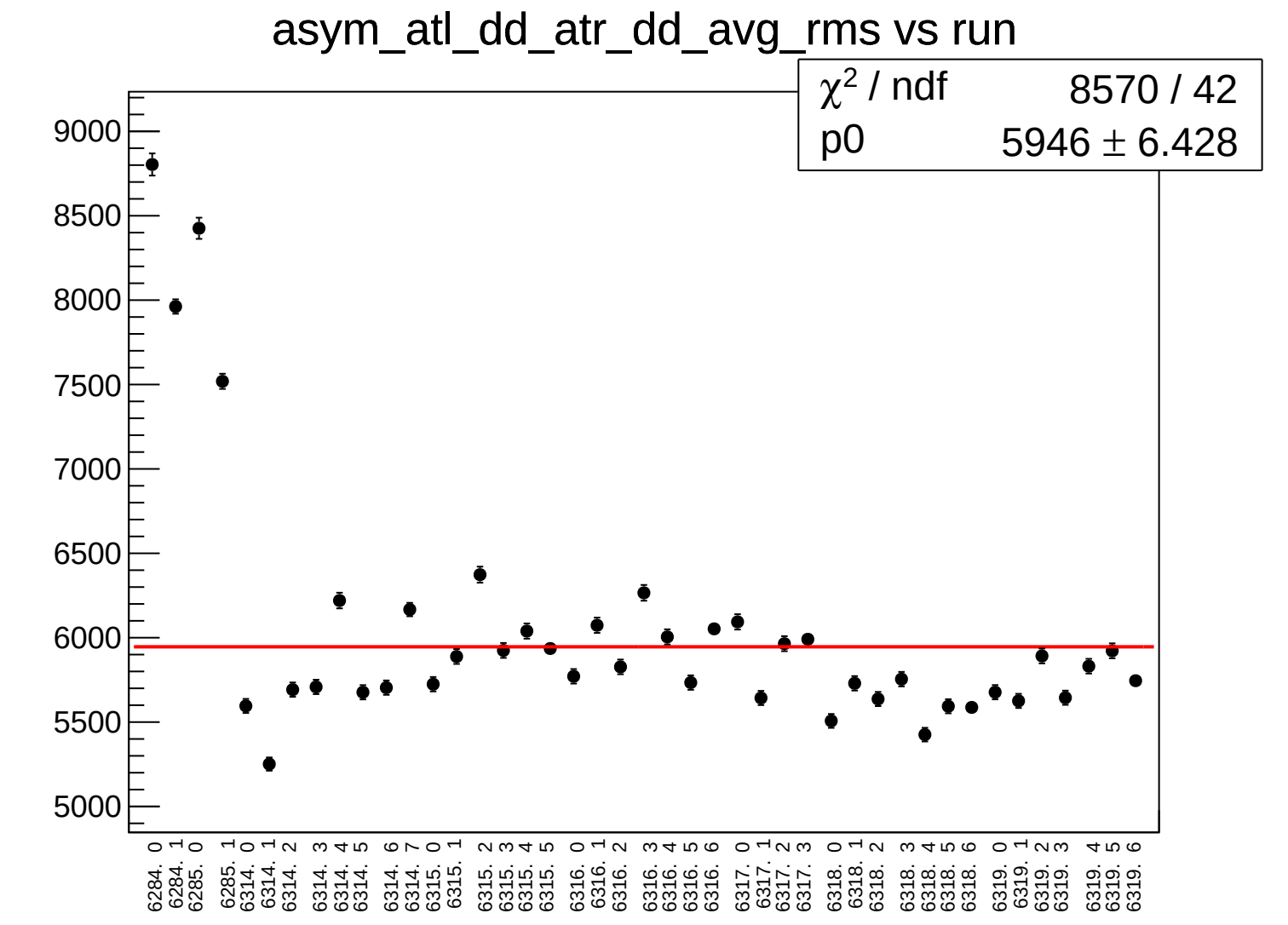

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 53.04 / 42
p0 9603 ± 8793
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −91.16
Std Dev 120.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

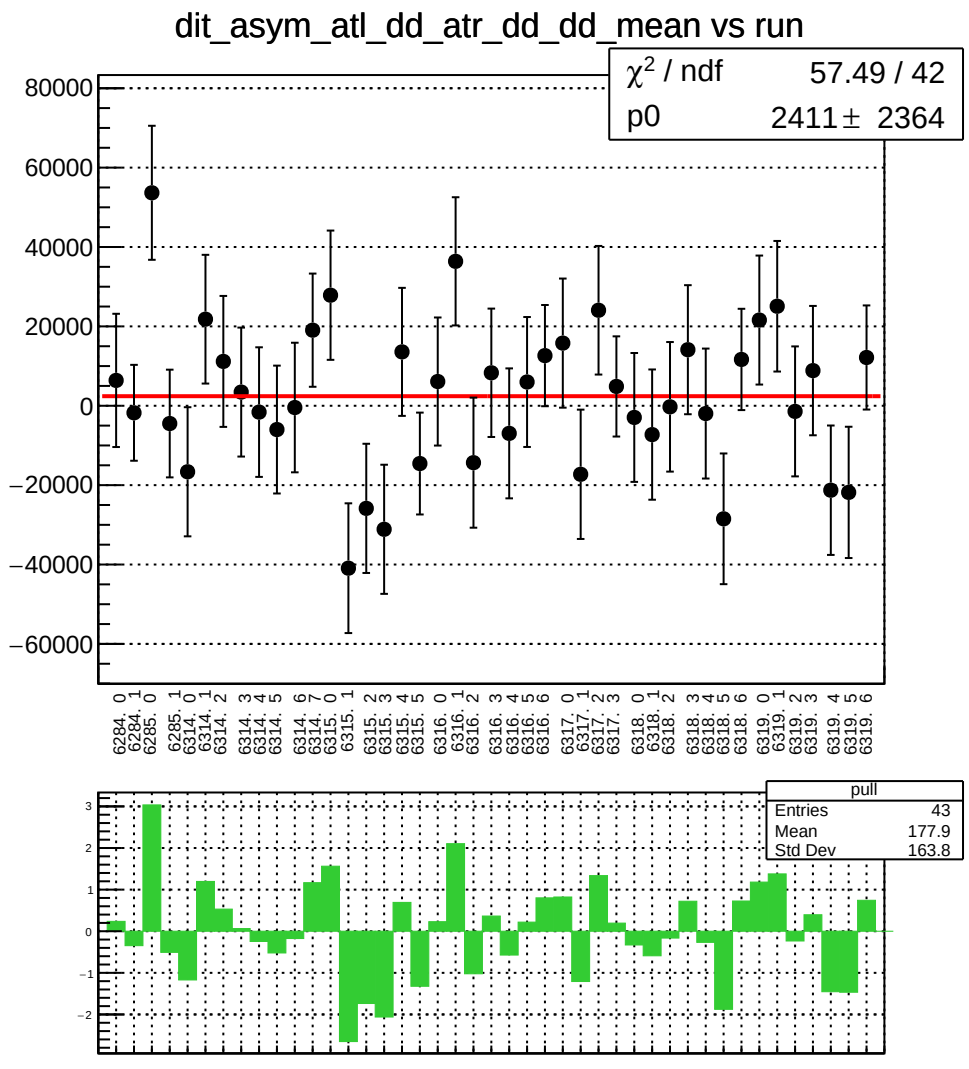

pull1D
Entries 43
Mean −0.02306
Std Dev 1.11
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

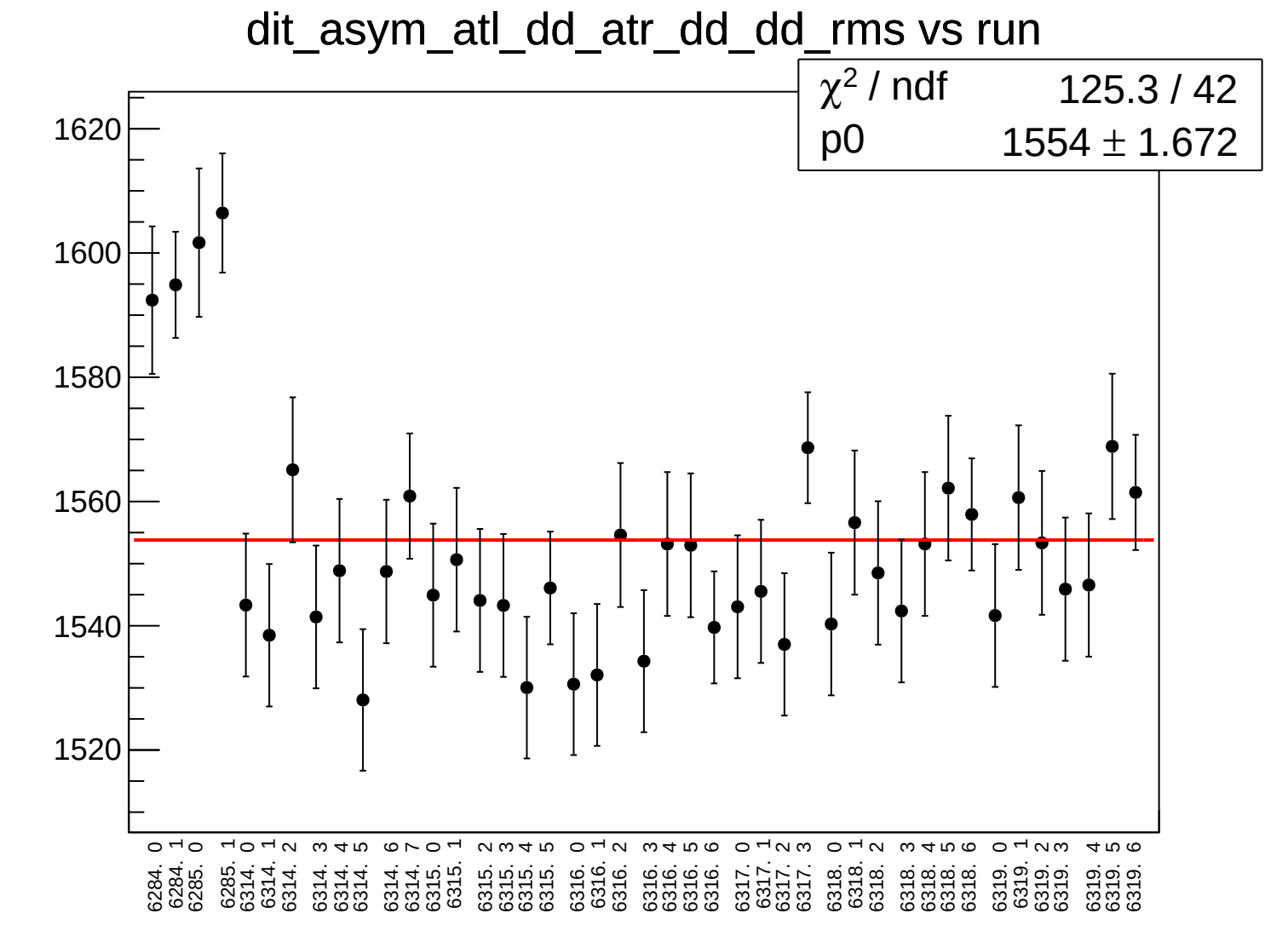

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 8232 / 42
p0 5752 ± 6.217
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

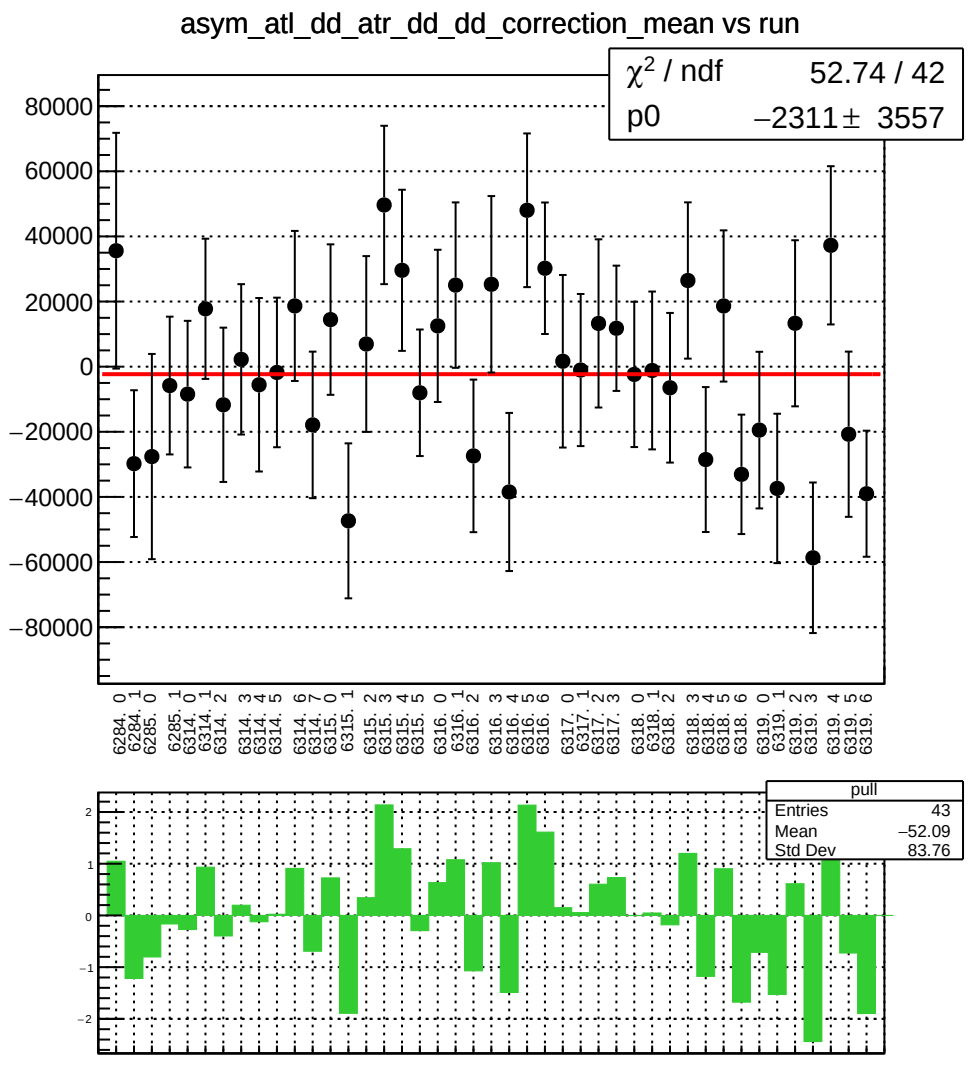

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 55.48 / 42
p0 −9997 ± 9091
200
100
0
−100
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −81.98
Std Dev 111.7
1
0
−1
−2
−3

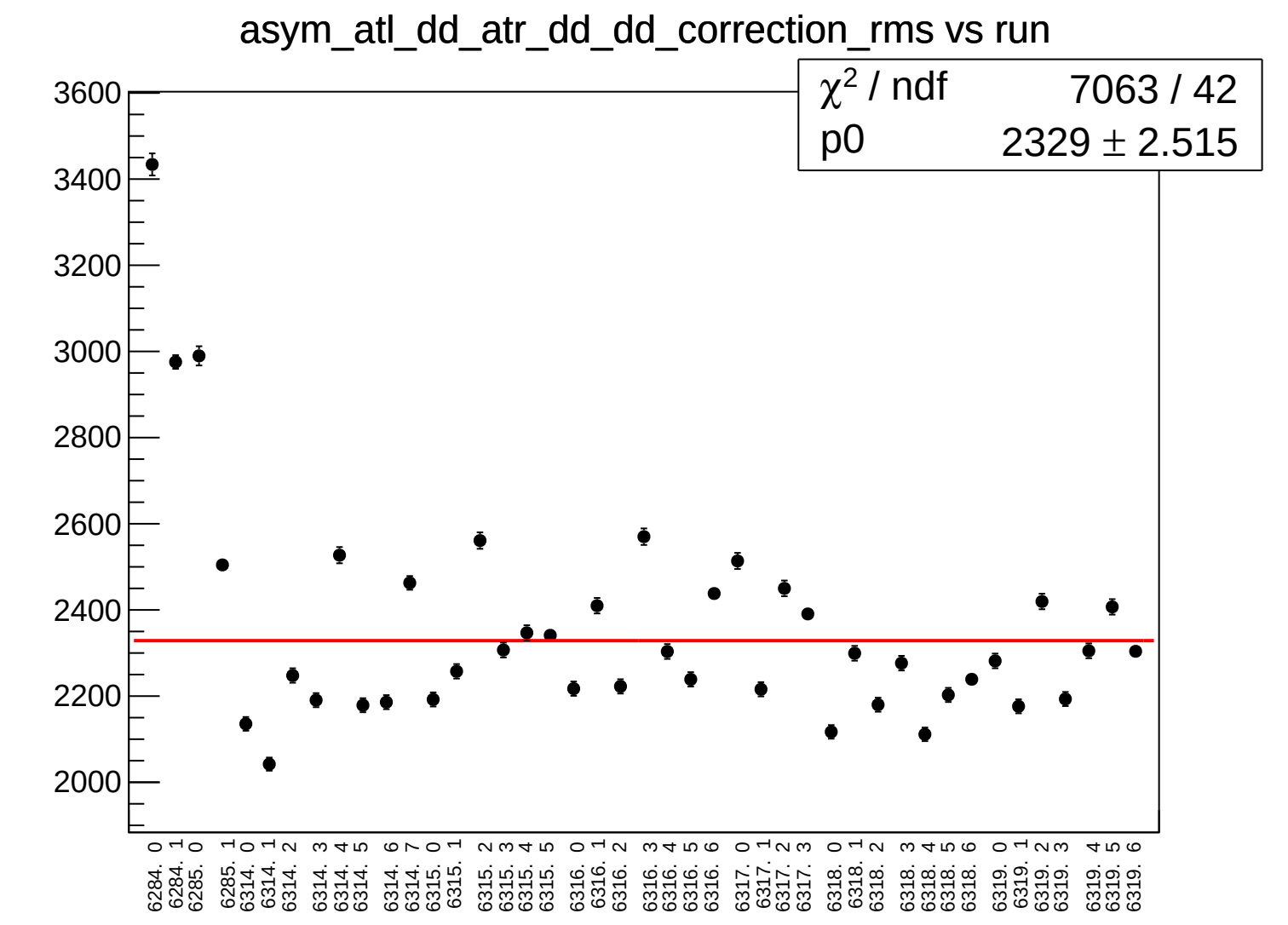

pull1D
Entries 43
Mean 0.0182
Std Dev 1.136
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

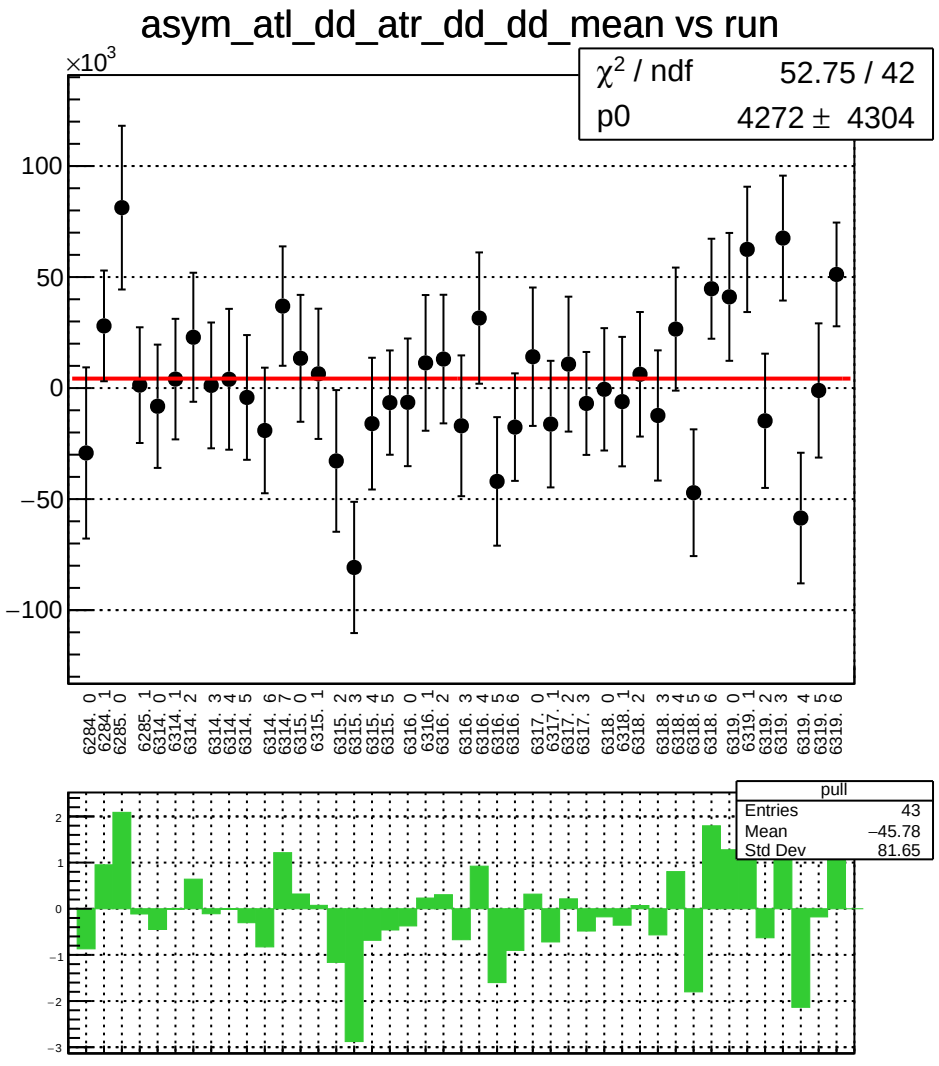

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8570 / 42
p0 5946 ± 6.428
9000
8500
8000
7500
7000
6500
6000
5500
5000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

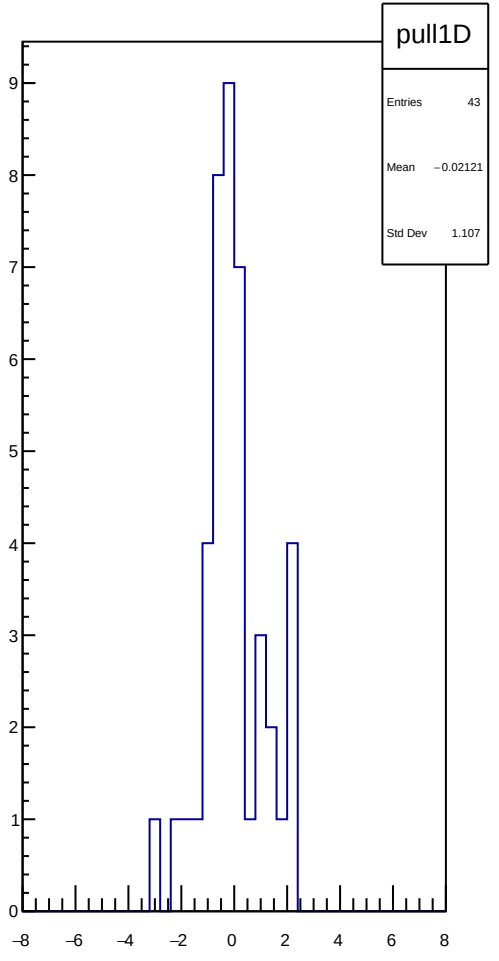

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 57.49 / 42
p0 2411 ± 2364
80000
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 177.9
Std Dev 163.8
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.00505
Std Dev 1.156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

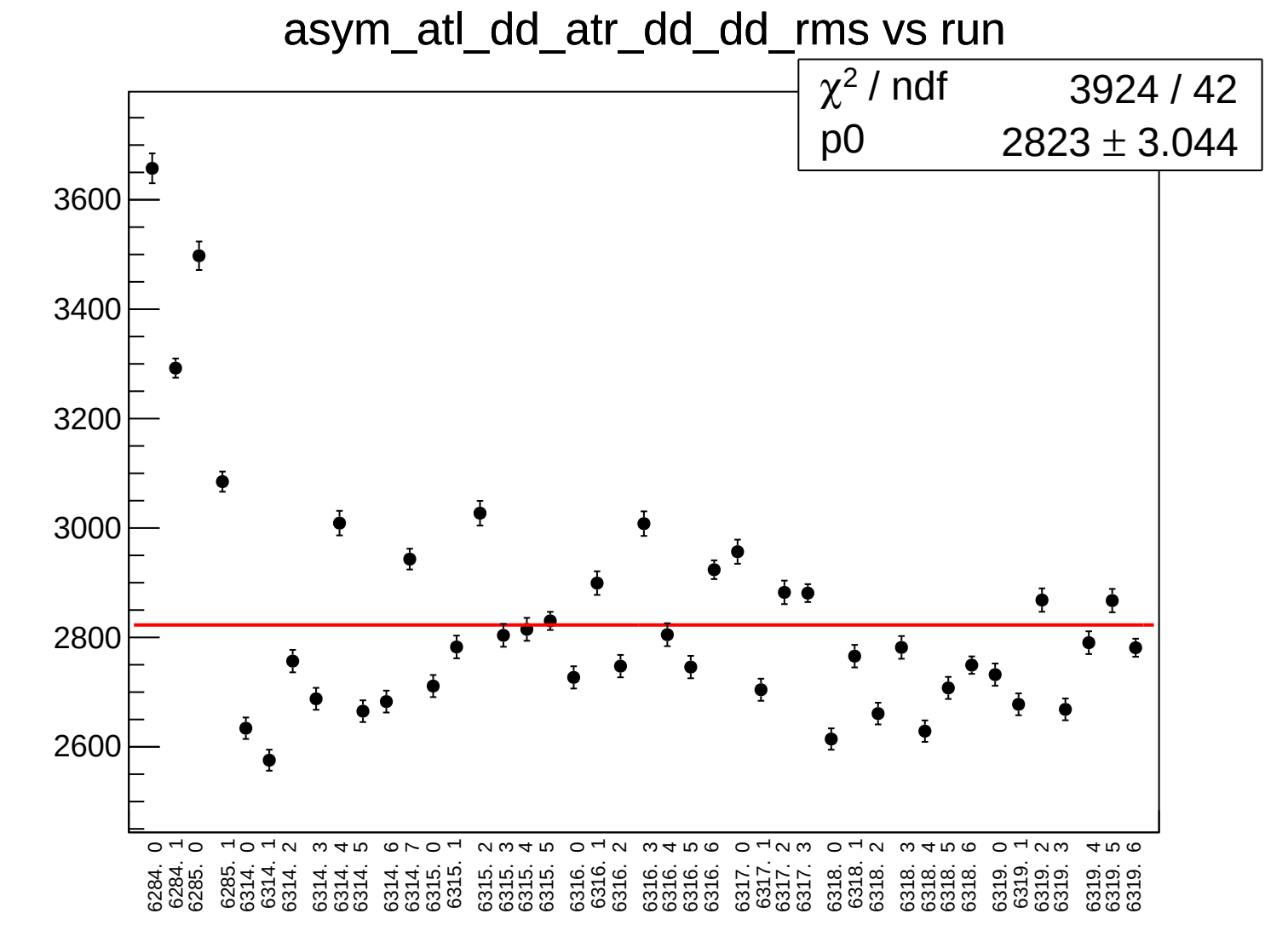

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 125.3 / 42
p0 1554 ± 1.672
1620
1600
1580
1560
1540
1520
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

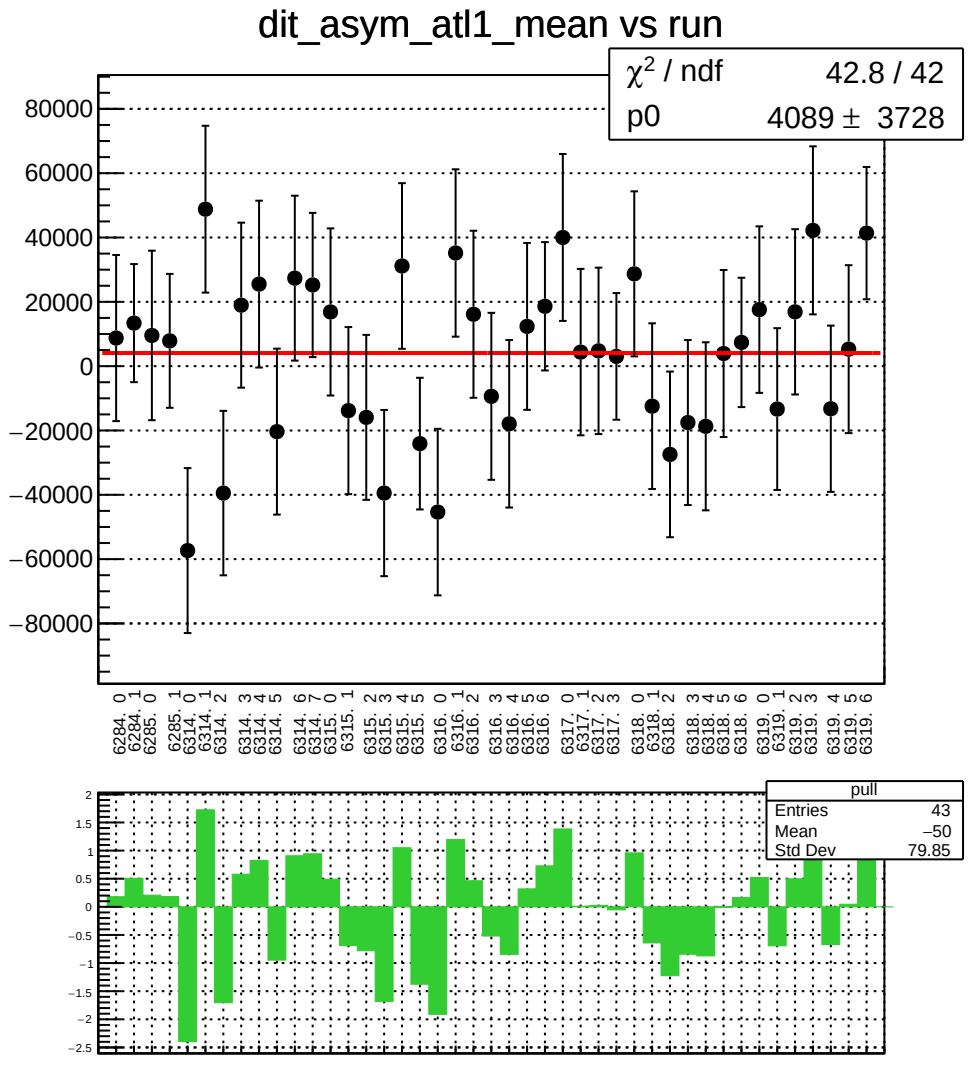

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 52.74 / 42
p0 −2311 ± 3557
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −52.09
Std Dev 83.76
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02911
Std Dev 1.107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

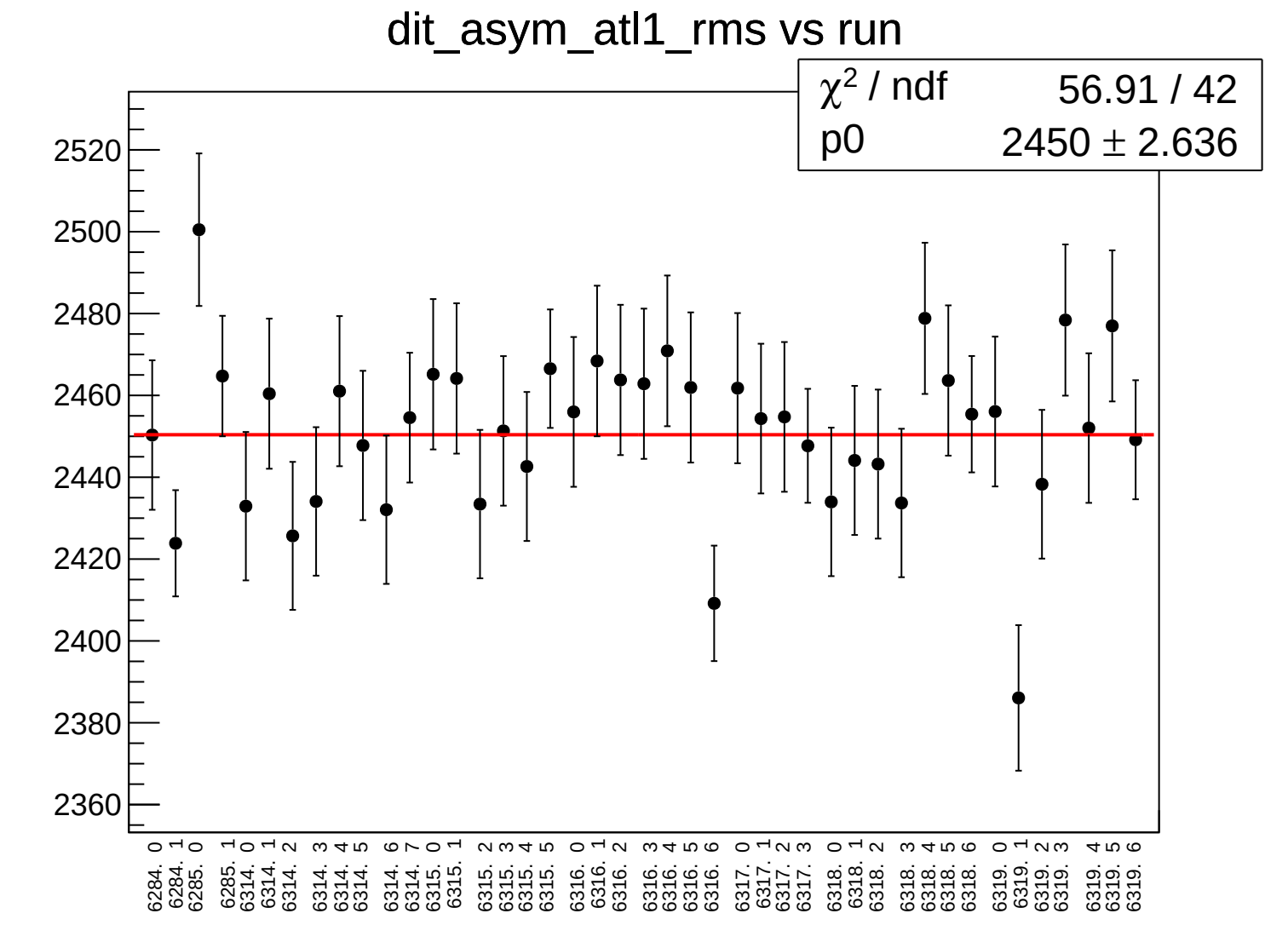

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 7063 / 42
p0 2329 ± 2.515
3600
3400
3200
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

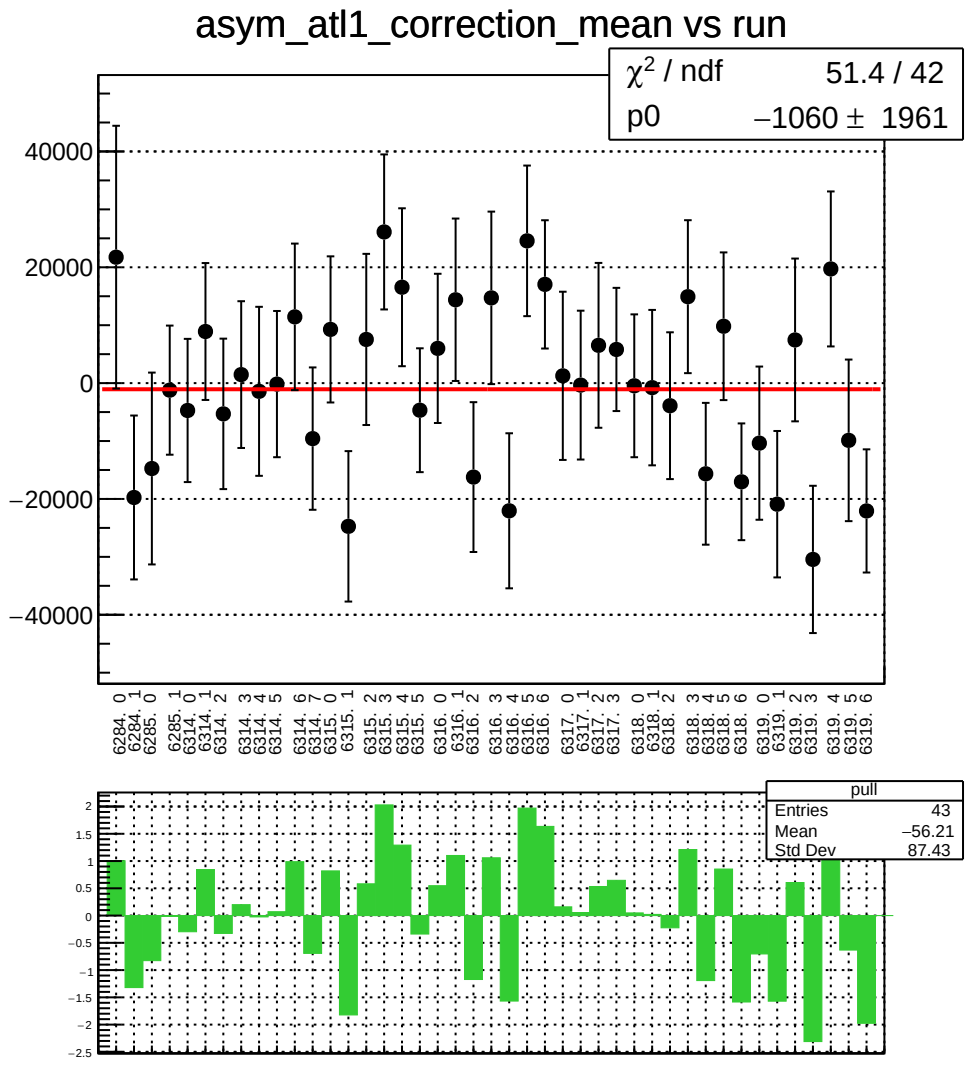

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 52.75 / 42
p0 4272 ± 4304
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −45.78
Std Dev 81.65
2
1
0
−1
−2
−3

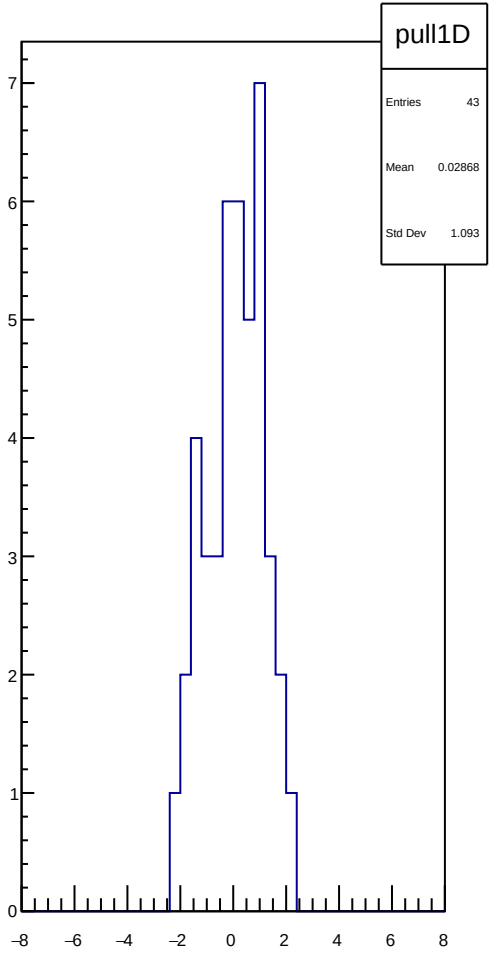

pull1D
Entries 43
Mean −0.02121
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

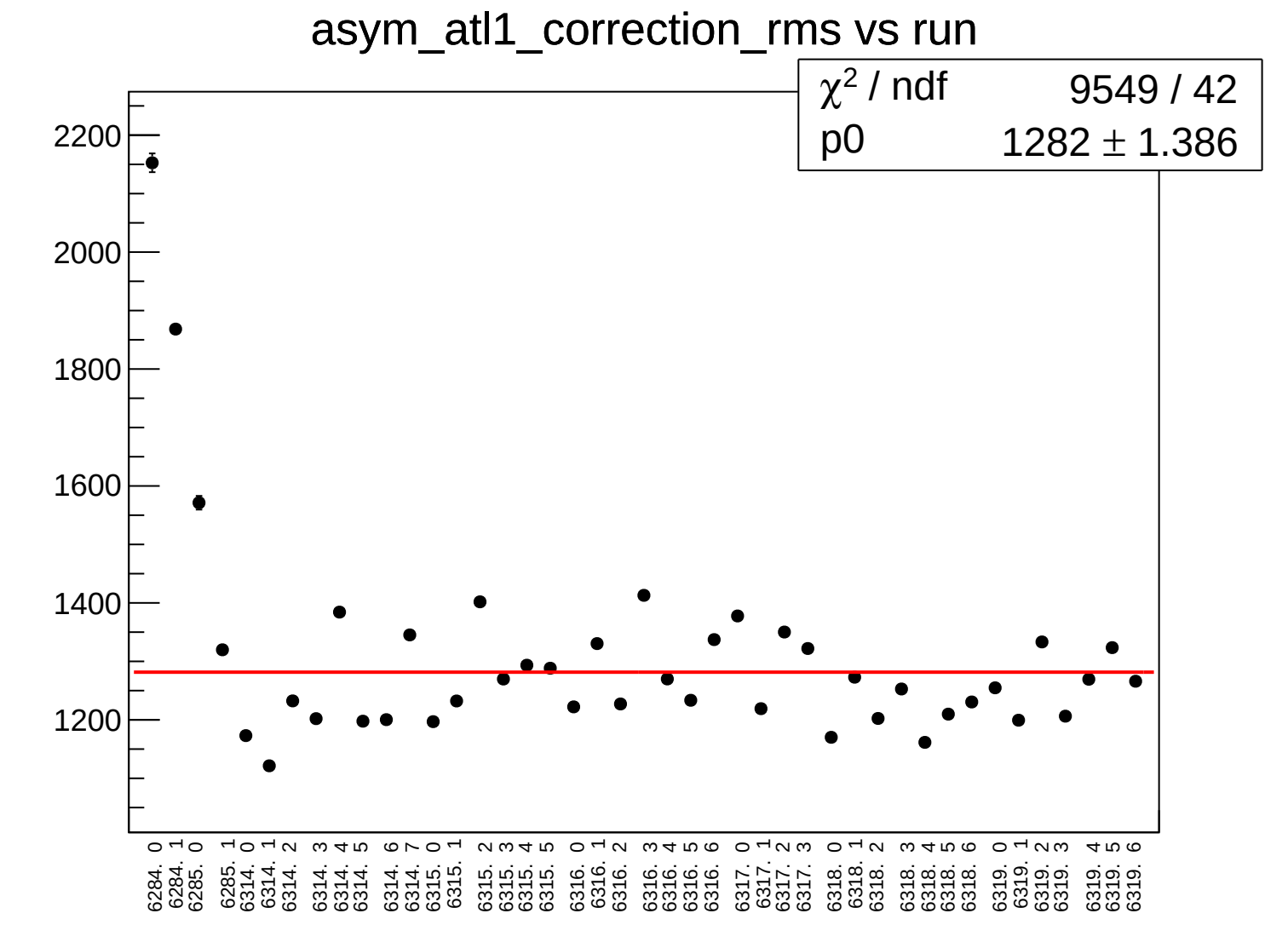

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3924 / 42
p0 2823 ± 3.044
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

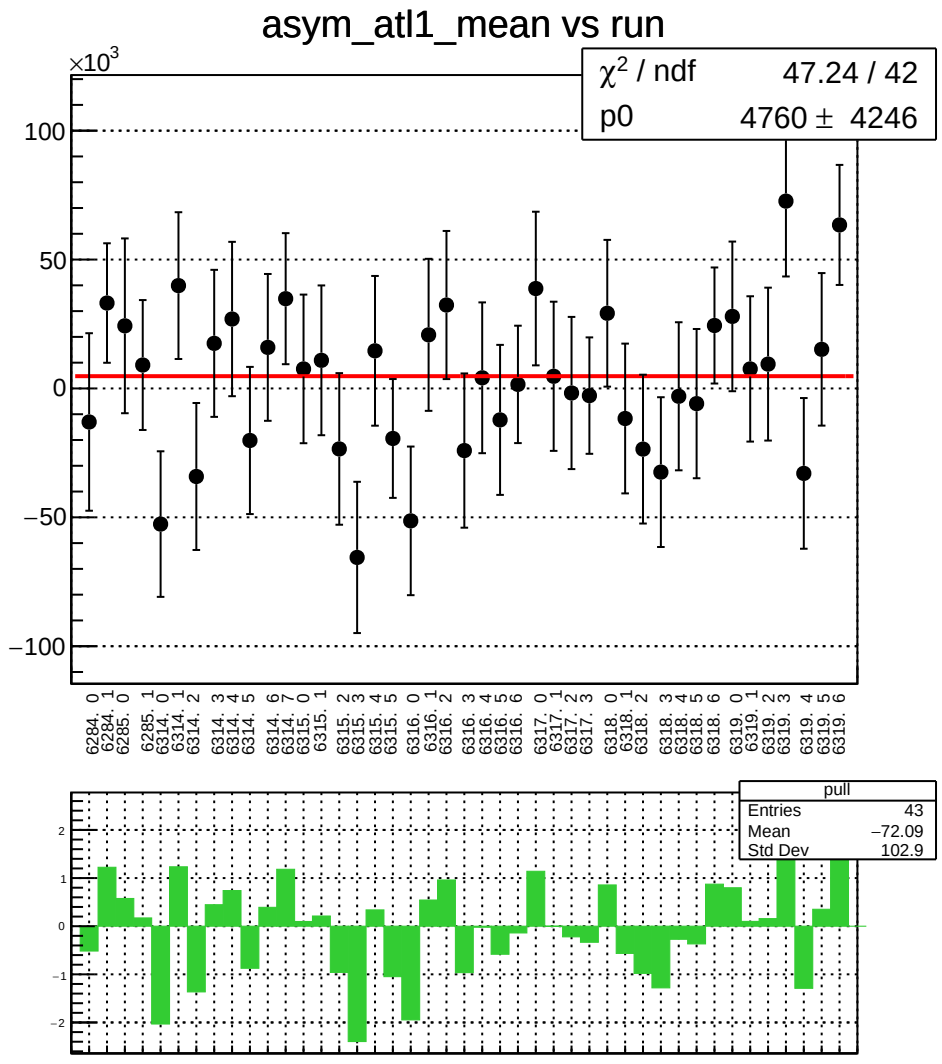

dit_asym_atl1_mean vs run
χ² / ndf 42.8 / 42
p0 4089 ± 3728
pull
Entries 43
Mean −50
Std Dev 79.85
pull1D
Entries 43
Mean −0.0155
Std Dev 0.9975

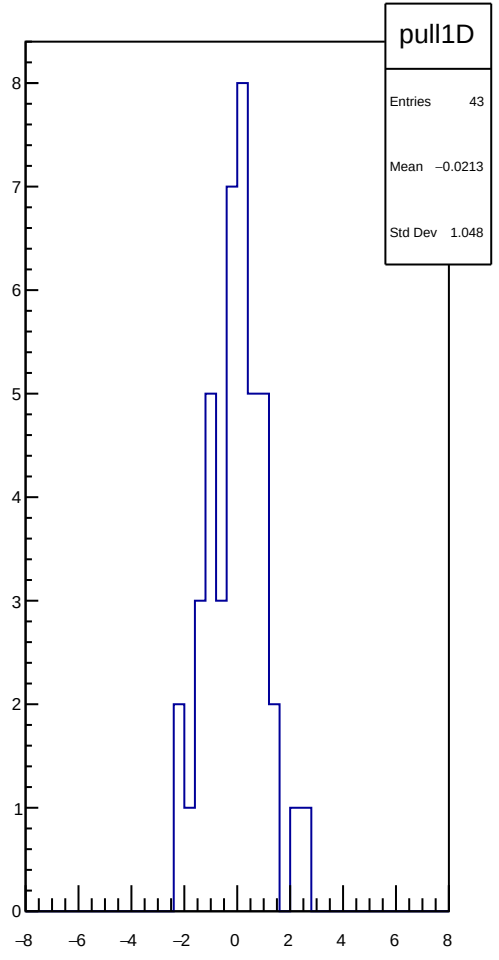

dit_asym_atl1_rms vs run
χ² / ndf 56.91 / 42
p0 2450 ± 2.636
2520
2500
2480
2460
2440
2420
2400
2380
2360
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

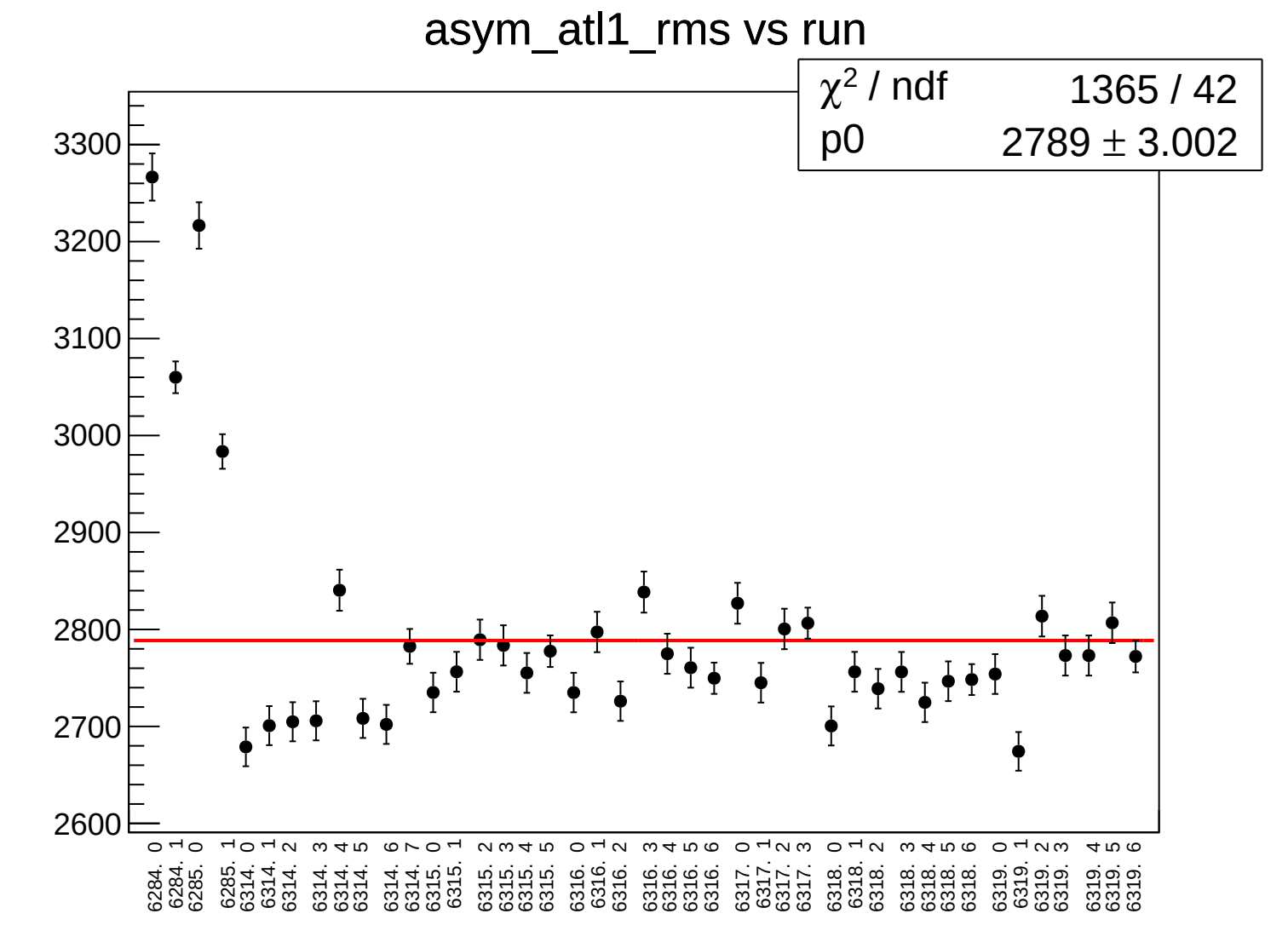

asym_atl1_correction_mean vs run
χ² / ndf 51.4 / 42
p0 −1060 ± 1961
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −56.21
Std Dev 87.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

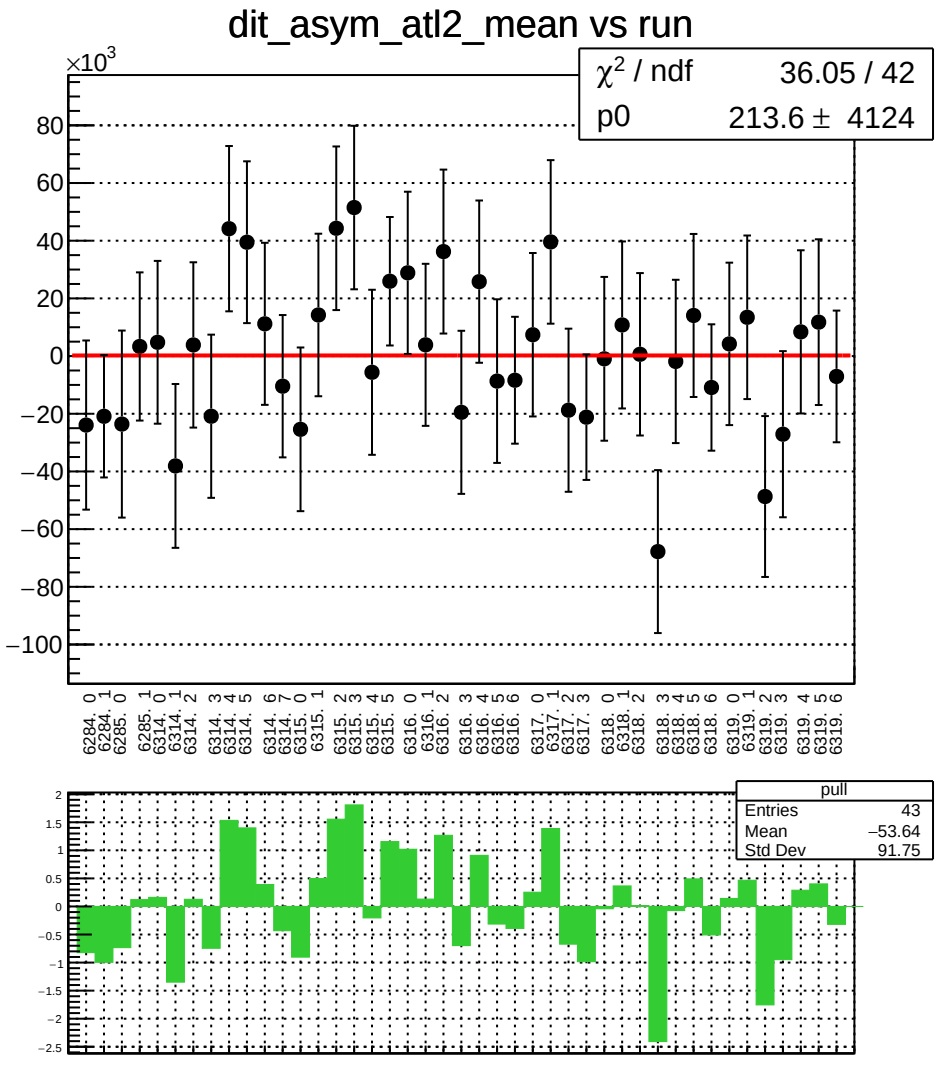

pull1D
Entries 43
Mean 0.02868
Std Dev 1.093
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

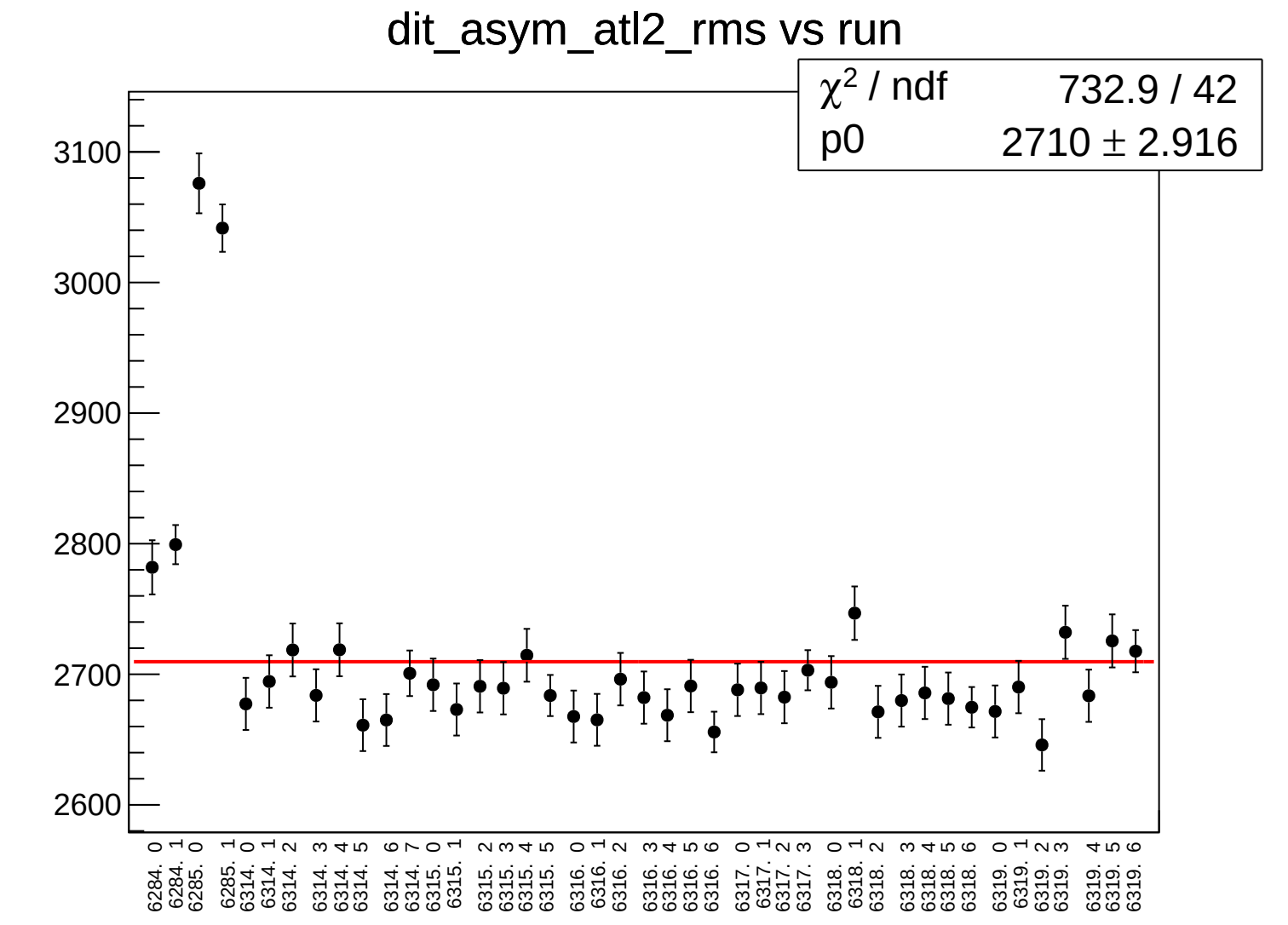

asym_atl1_correction_rms vs run
χ² / ndf 9549 / 42
p0 1282 ± 1.386
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

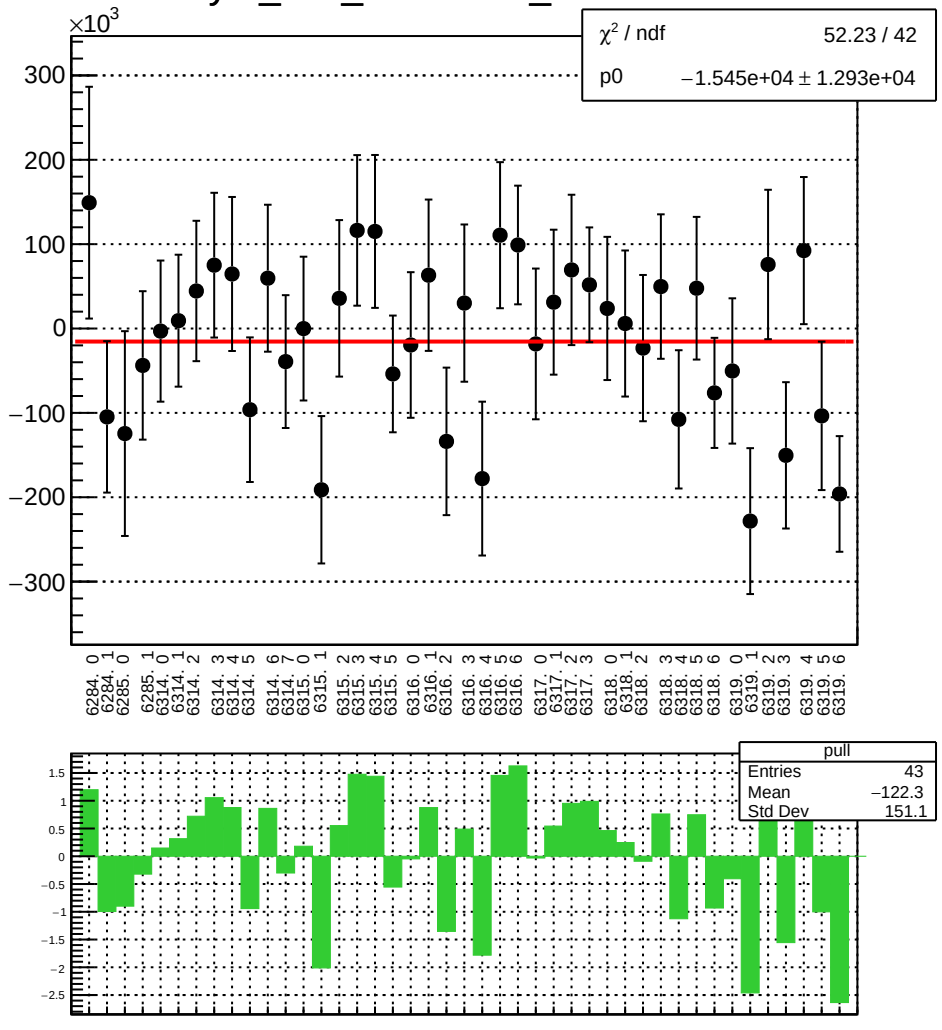

asym_atl1_mean vs run
×10^3
χ^2 / ndf 47.24 / 42
p0 4760 ± 4246
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −72.09
Std Dev 102.9
2
1
0
−1
−2

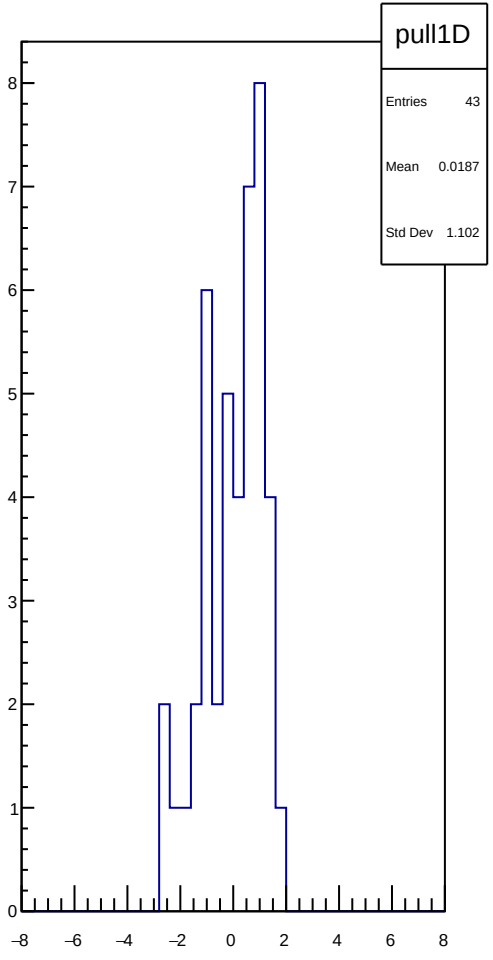

pull1D
Entries 43
Mean −0.0213
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

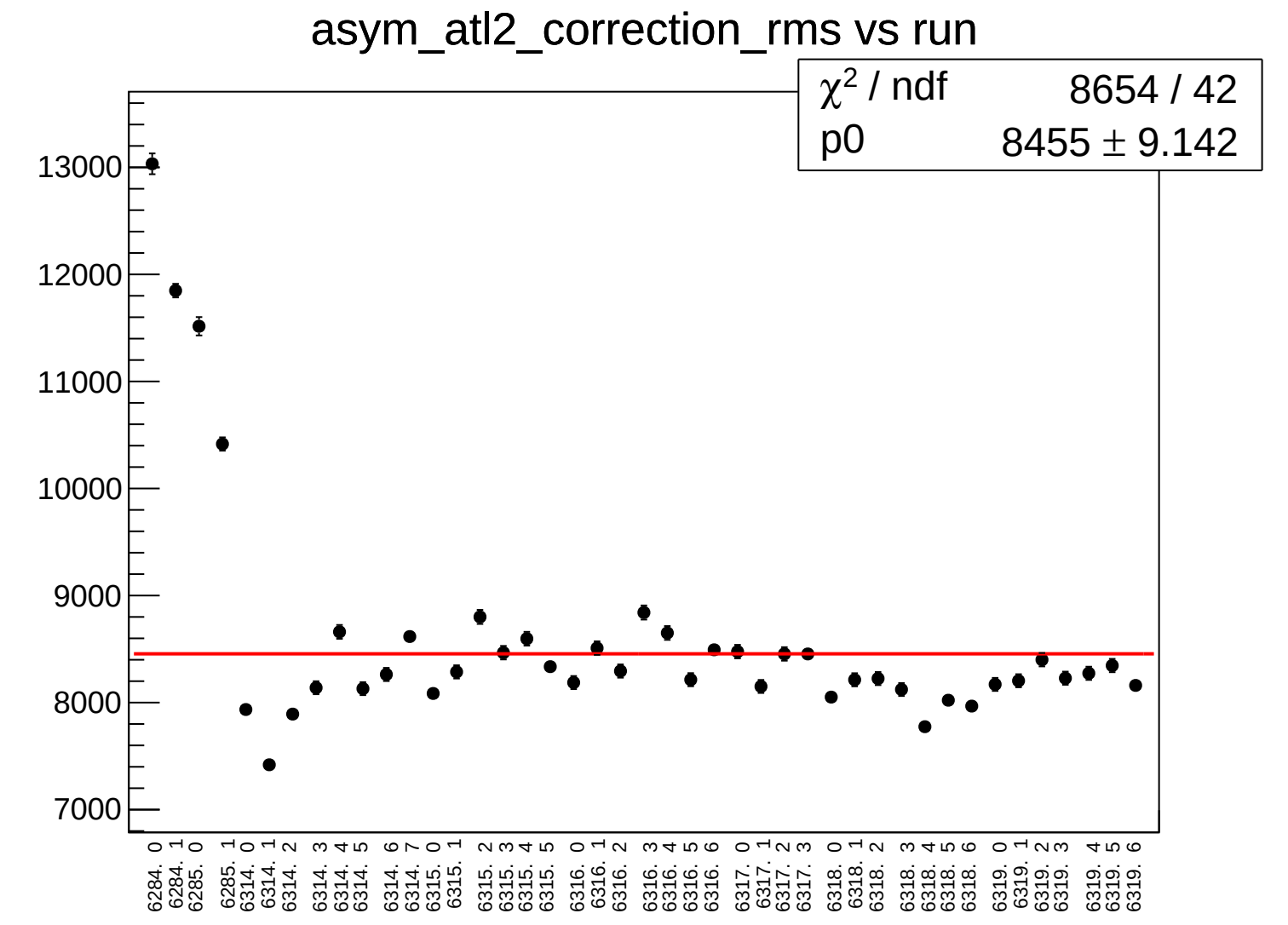

asym_atl1_rms vs run
χ² / ndf 1365 / 42
p0 2789 ± 3.002
3300
3200
3100
3000
2900
2800
2700
2600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

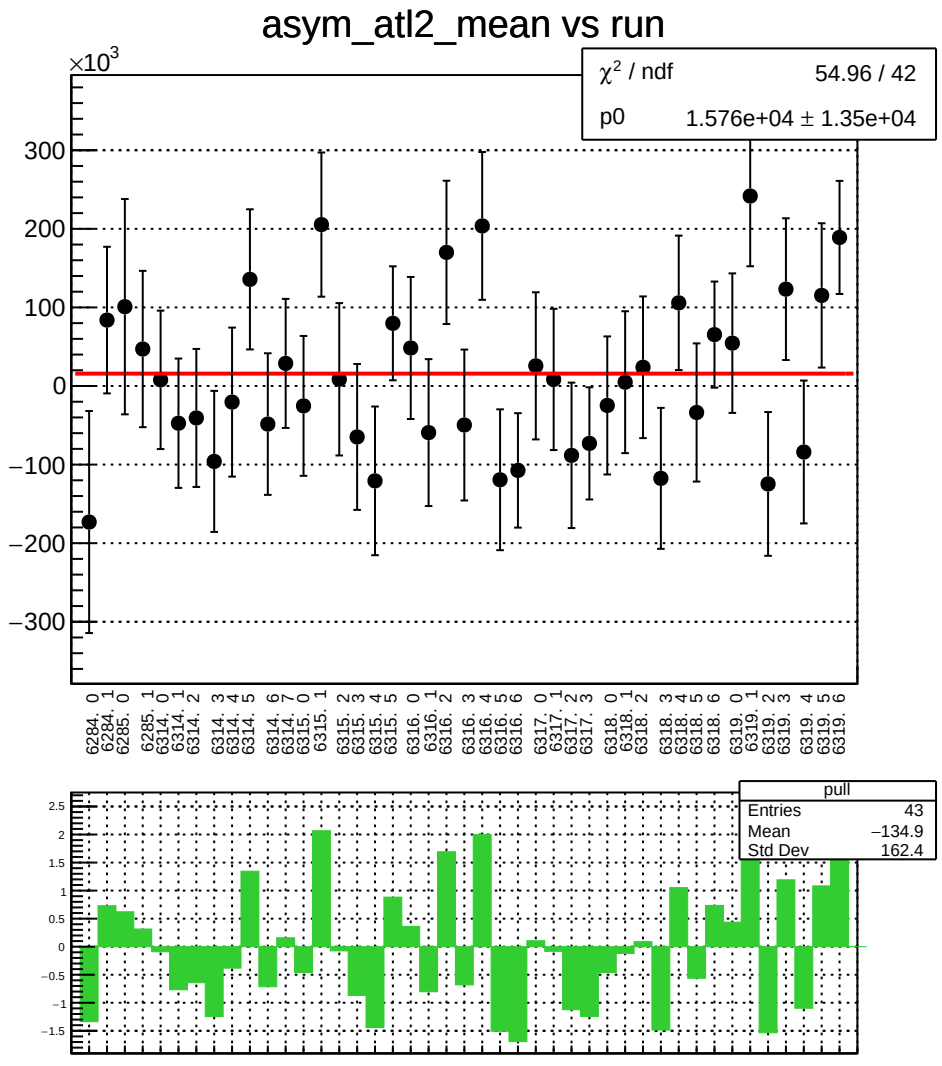

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 36.05 / 42
p0 213.6 ± 4124
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −53.64
Std Dev 91.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01407
Std Dev 0.9155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

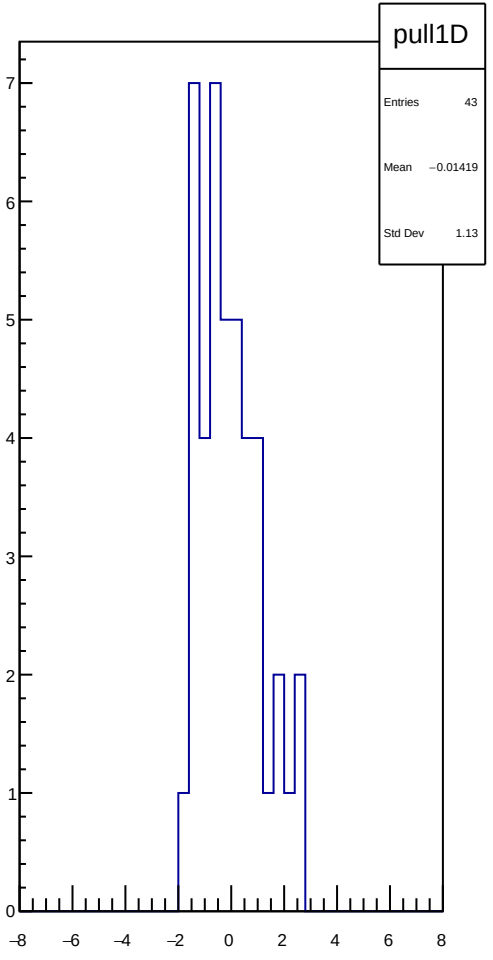

dit_asym_atl2_rms vs run
χ² / ndf 732.9 / 42
p0 2710 ± 2.916
3100
3000
2900
2800
2700
2600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

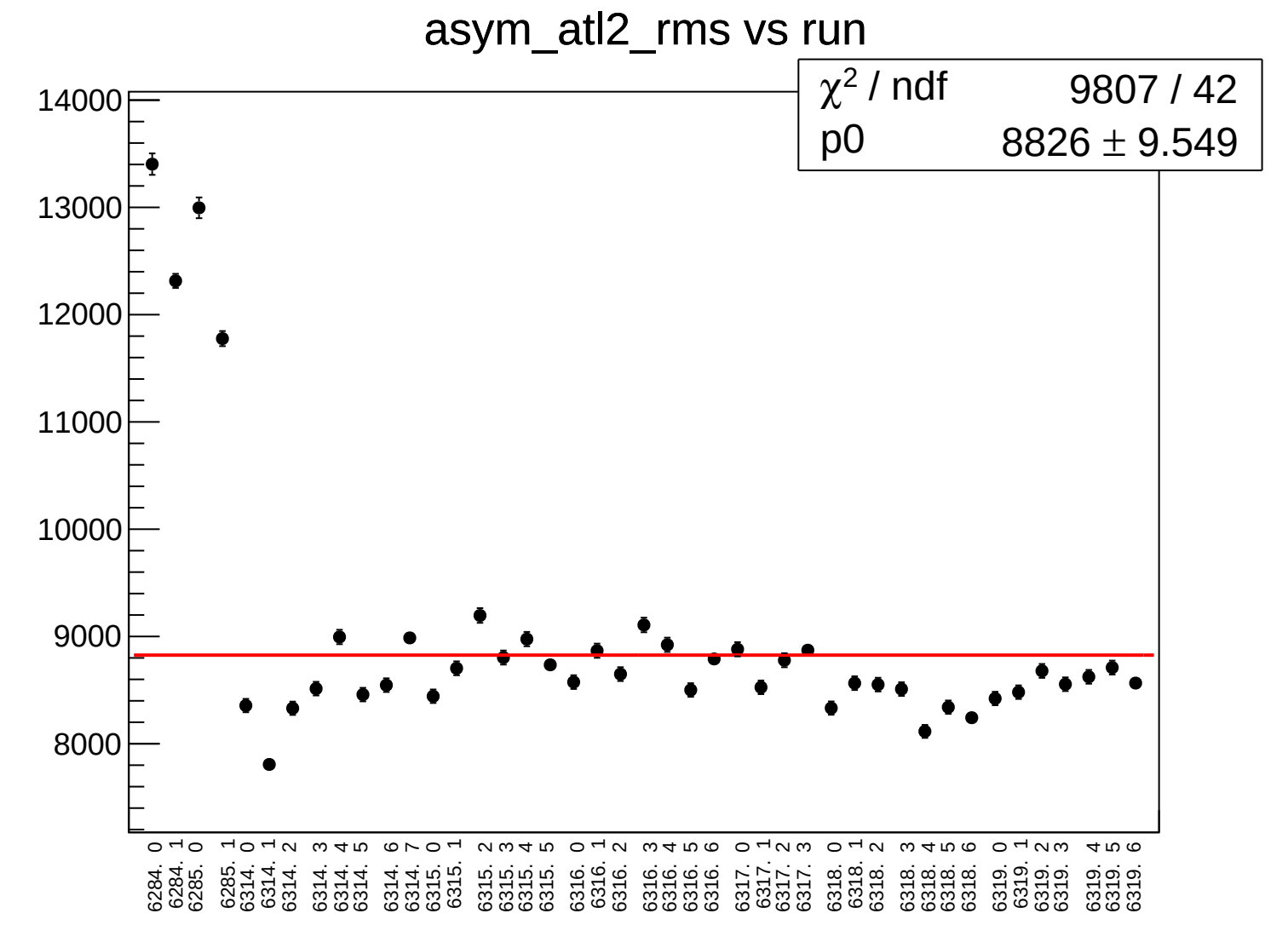

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 52.23 / 42
p0 −1.545e+04 ± 1.293e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −122.3
Std Dev 151.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

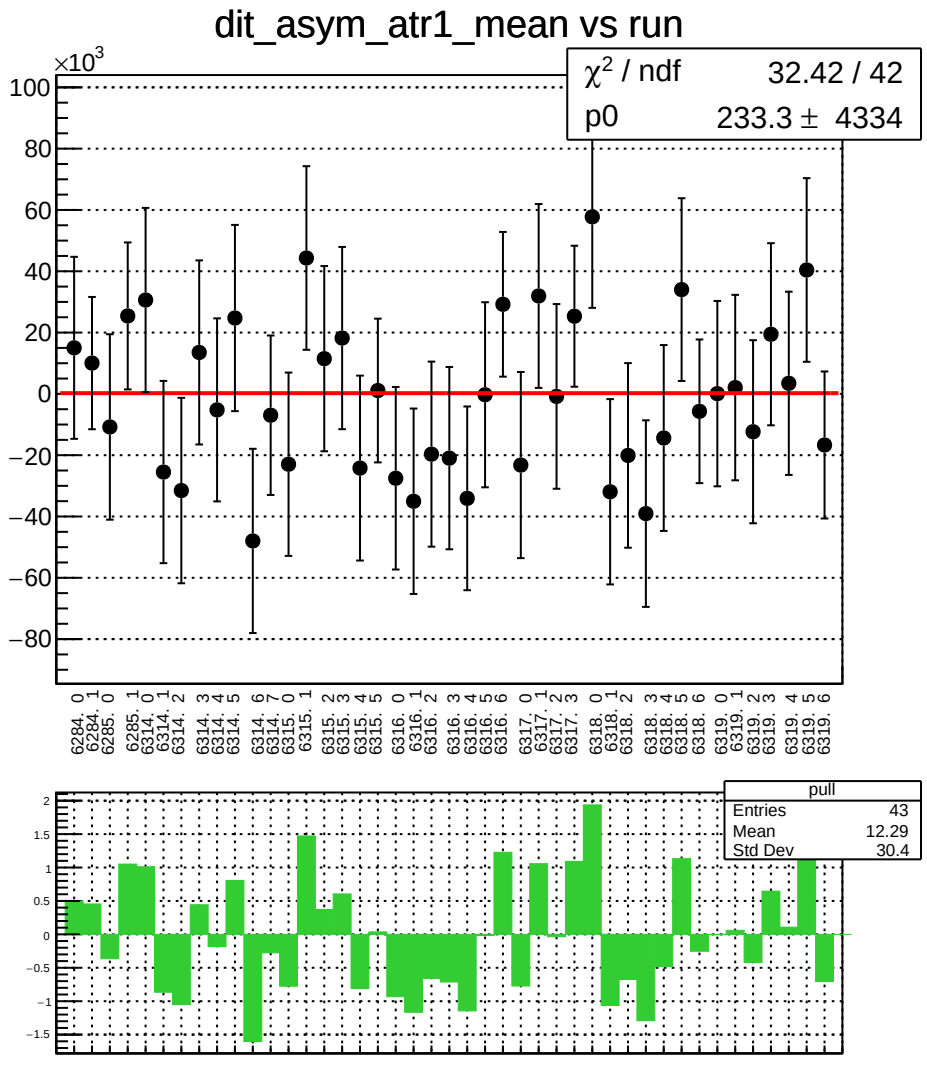

pull1D
Entries 43
Mean 0.0187
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

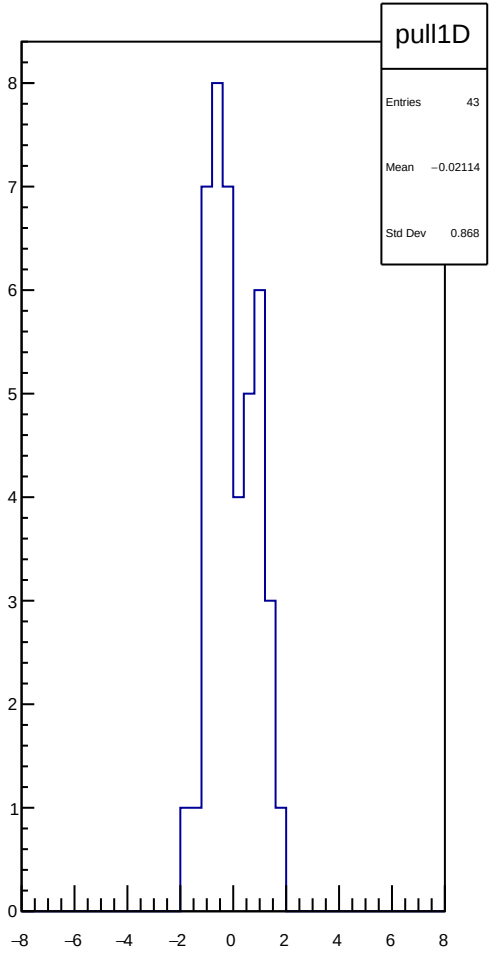

asym_atl2_correction_rms vs run
χ² / ndf 8654 / 42
p0 8455 ± 9.142
13000
12000
11000
10000
9000
8000
7000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

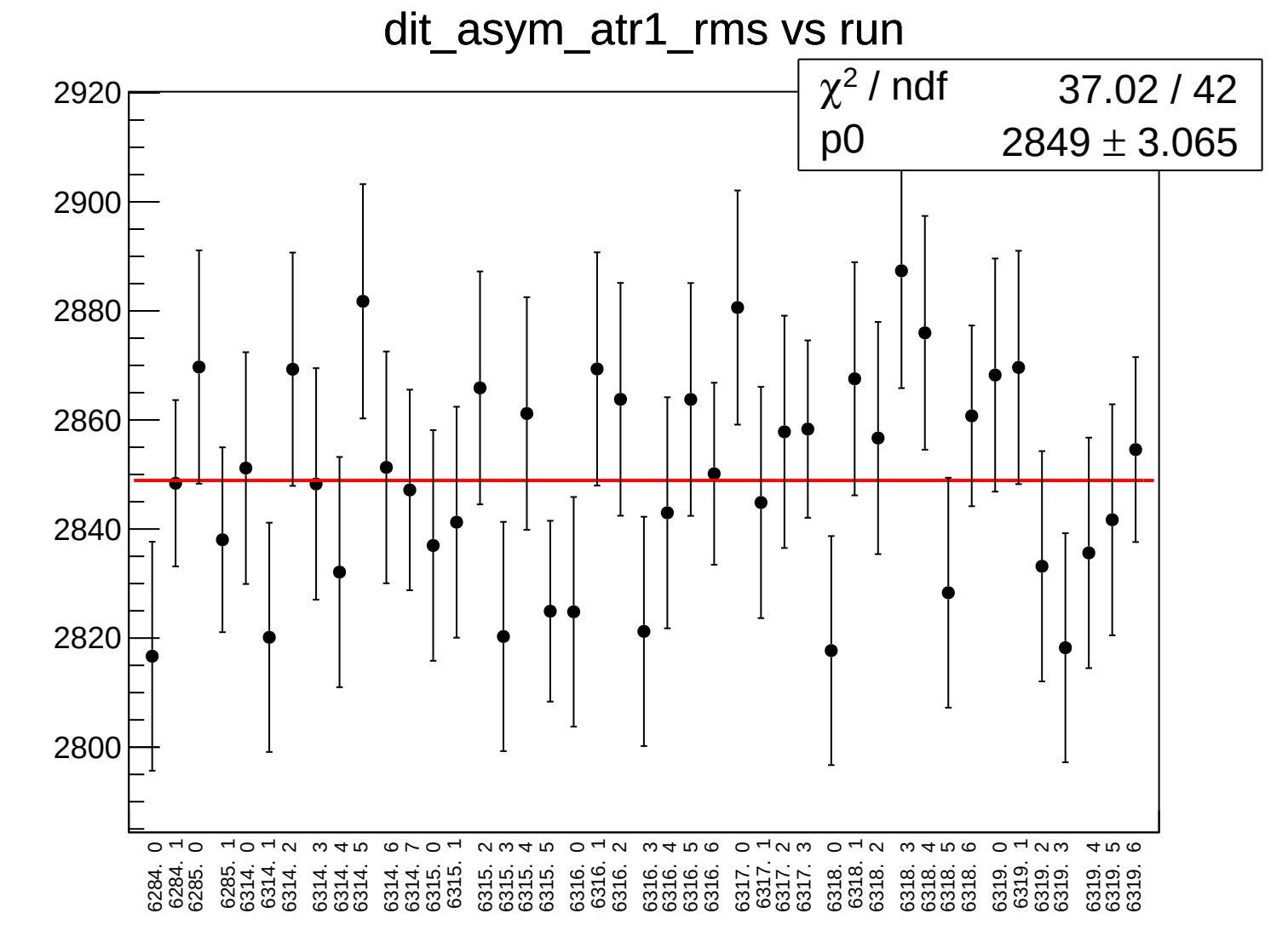

asym_atl2_mean vs run
×10^3
χ² / ndf 54.96 / 42
p0 1.576e+04 ± 1.35e+04
300
200
100
0
−100
−200
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −134.9
Std Dev 162.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

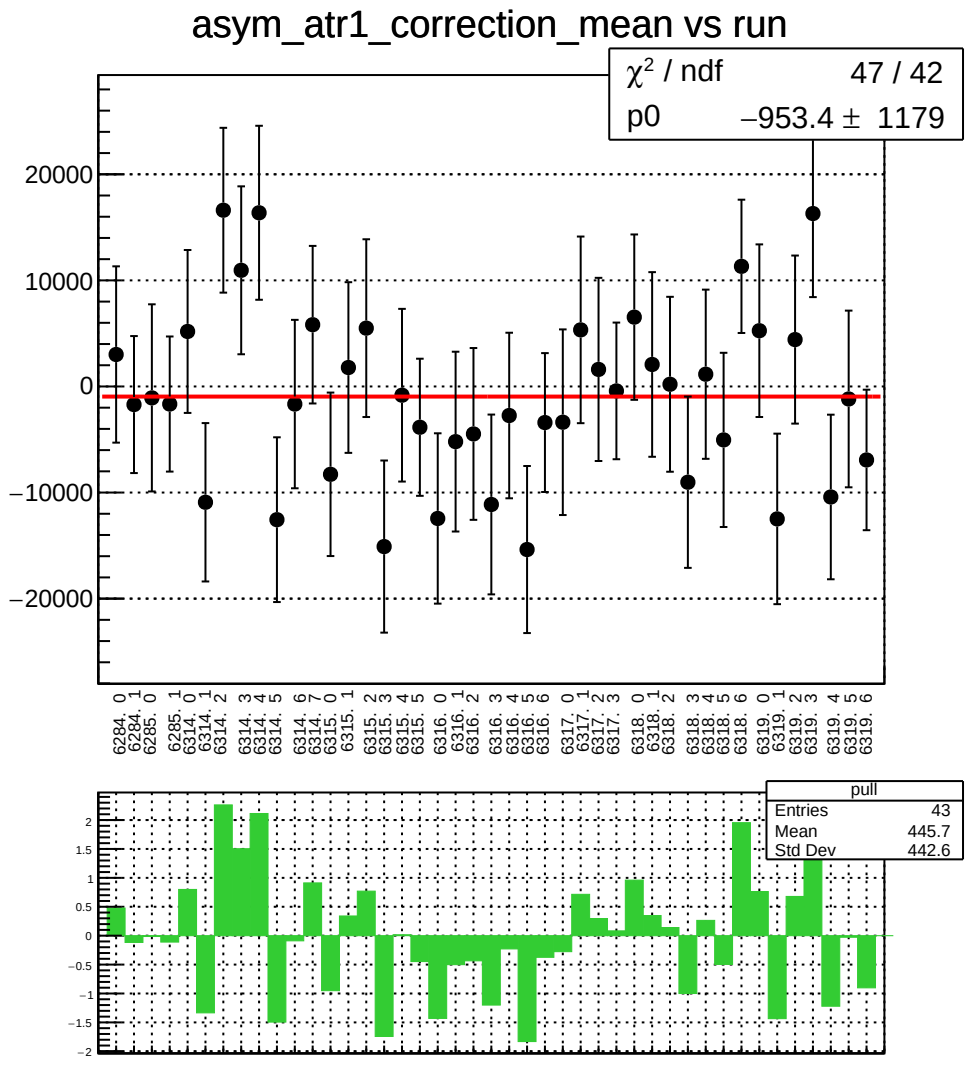

pull1D
Entries 43
Mean −0.01419
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

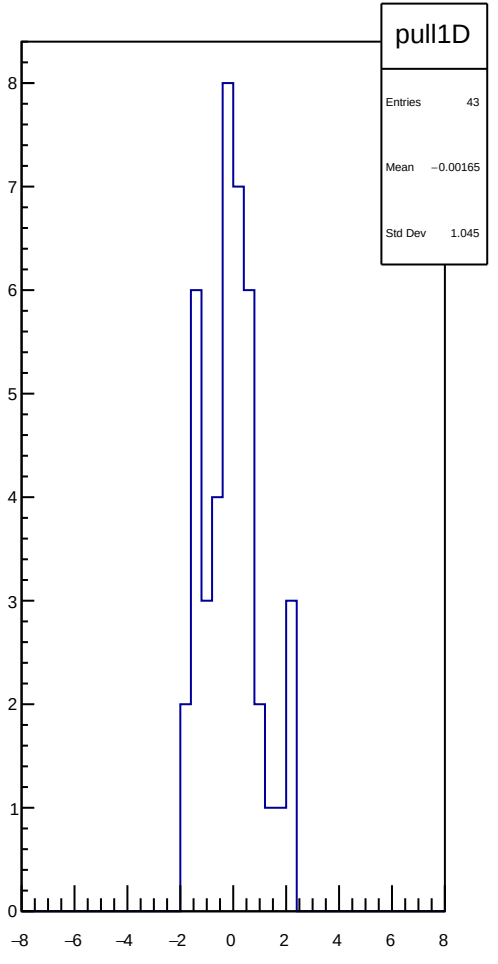

asym_atl2_rms vs run
χ² / ndf 9807 / 42
p0 8826 ± 9.549
14000
13000
12000
11000
10000
9000
8000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

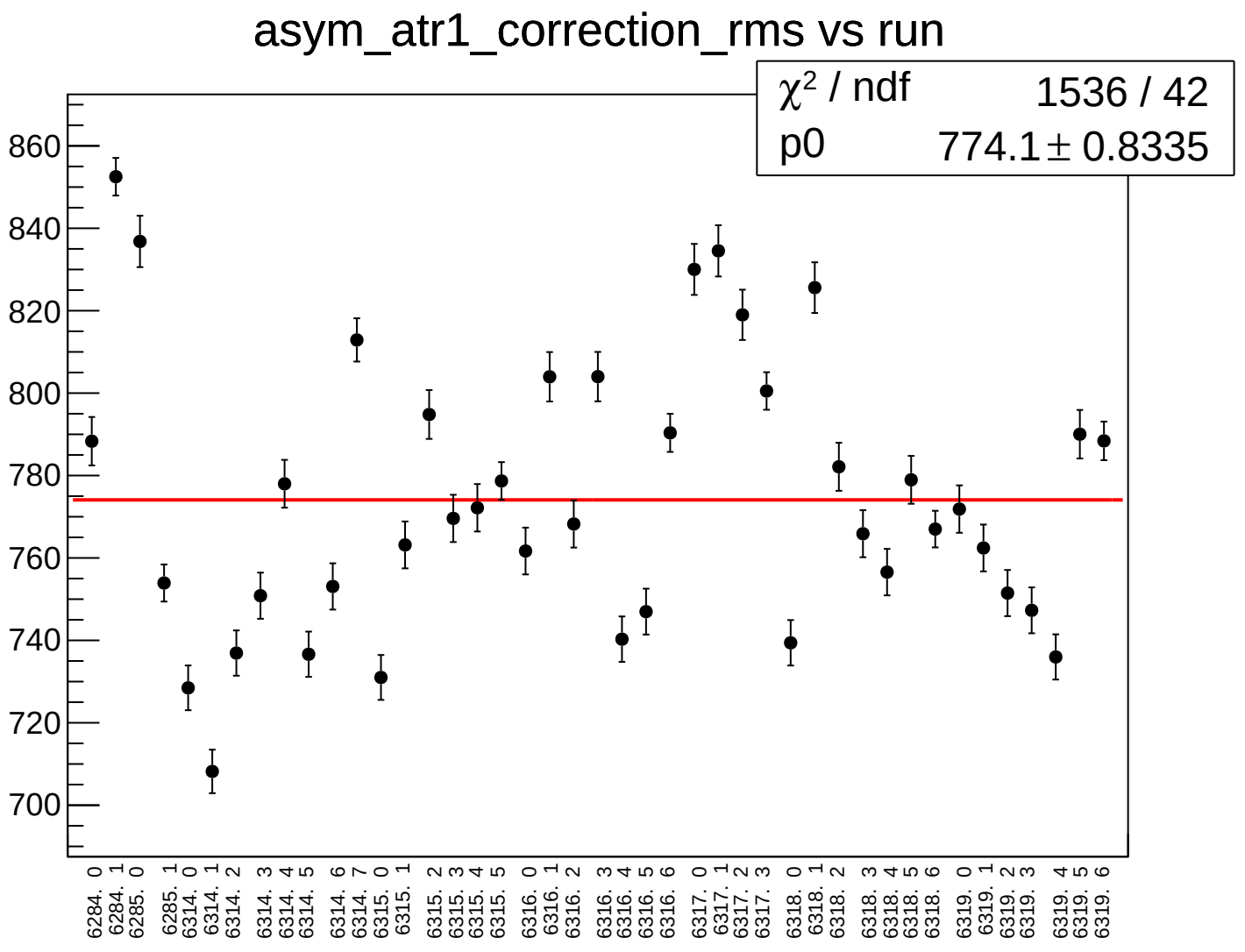

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 32.42 / 42
p0 233.3 ± 4334
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 12.29
Std Dev 30.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

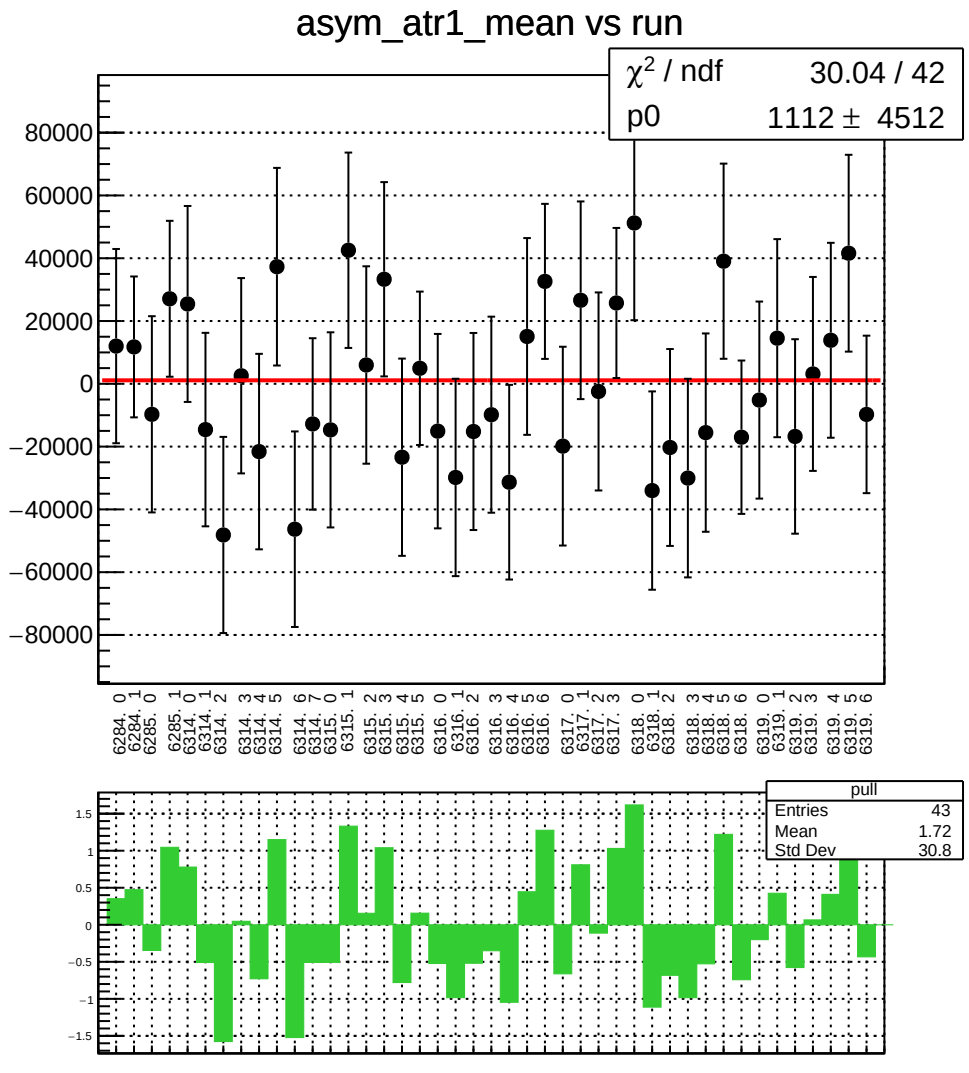

pull1D
Entries 43
Mean −0.02114
Std Dev 0.868
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

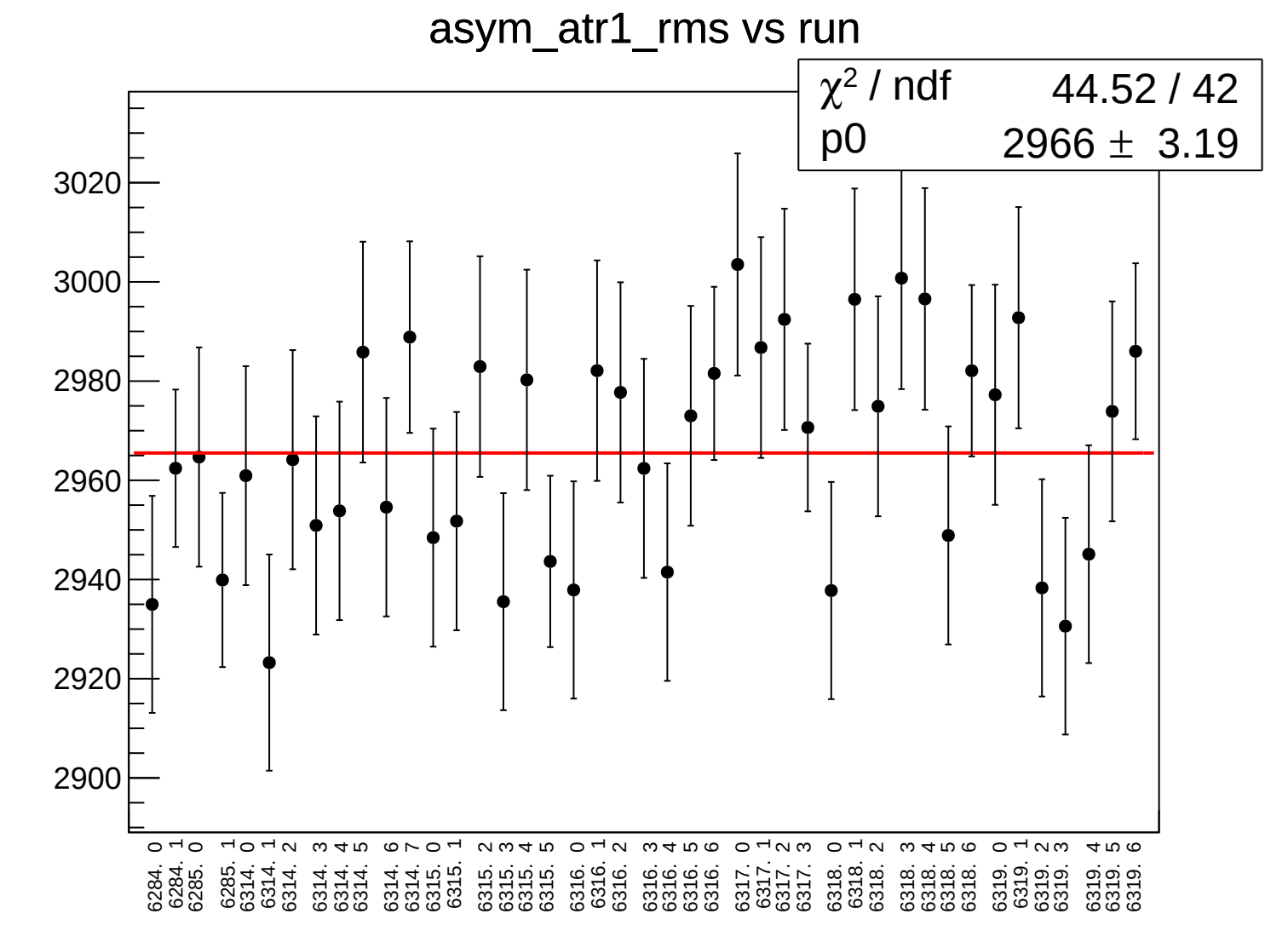

dit_asym_atr1_rms vs run
χ² / ndf 37.02 / 42
p0 2849 ± 3.065
2920
2900
2880
2860
2840
2820
2800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

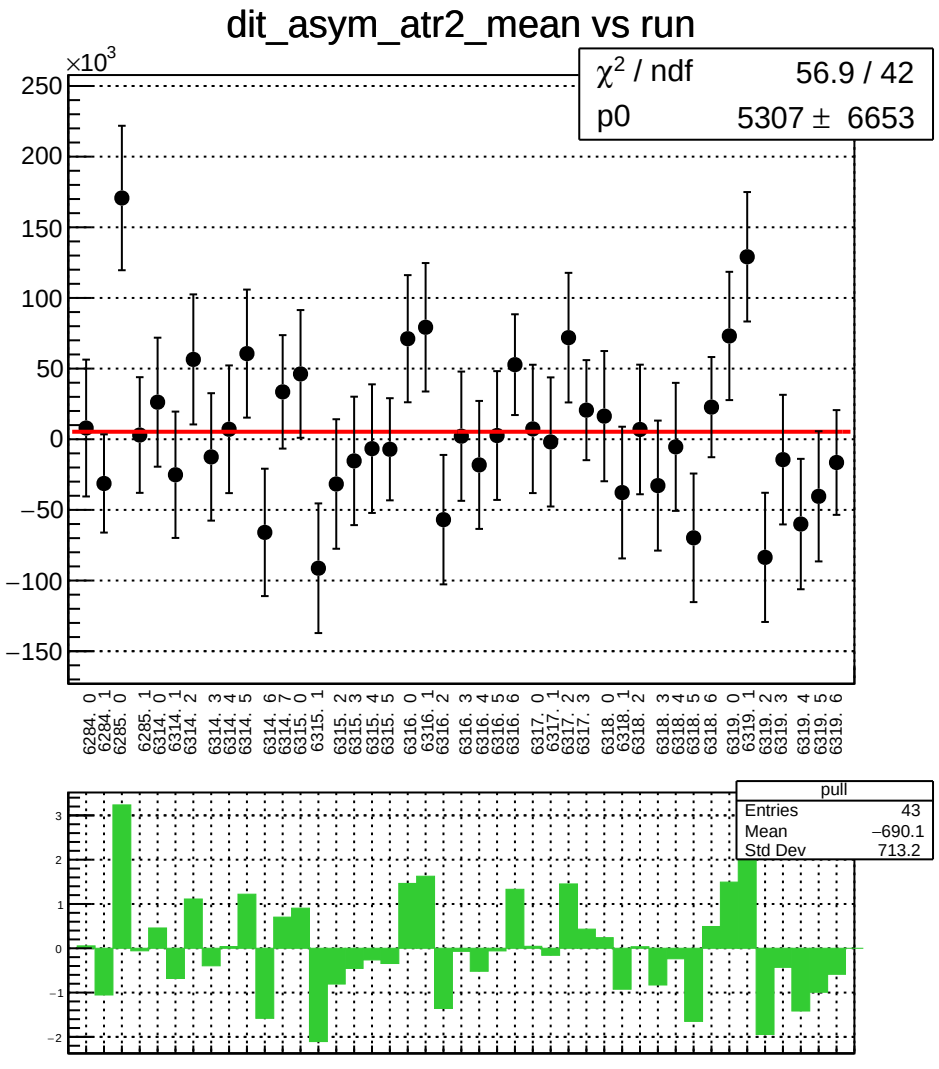

asym_atr1_correction_mean vs run
χ² / ndf 47 / 42
p0 −953.4 ± 1179
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 445.7
Std Dev 442.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

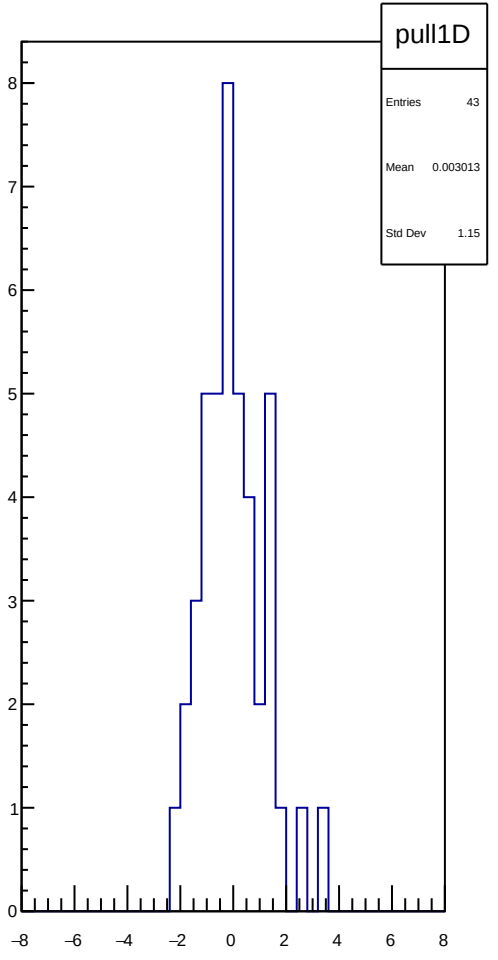

pull1D
Entries 43
Mean −0.00165
Std Dev 1.045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

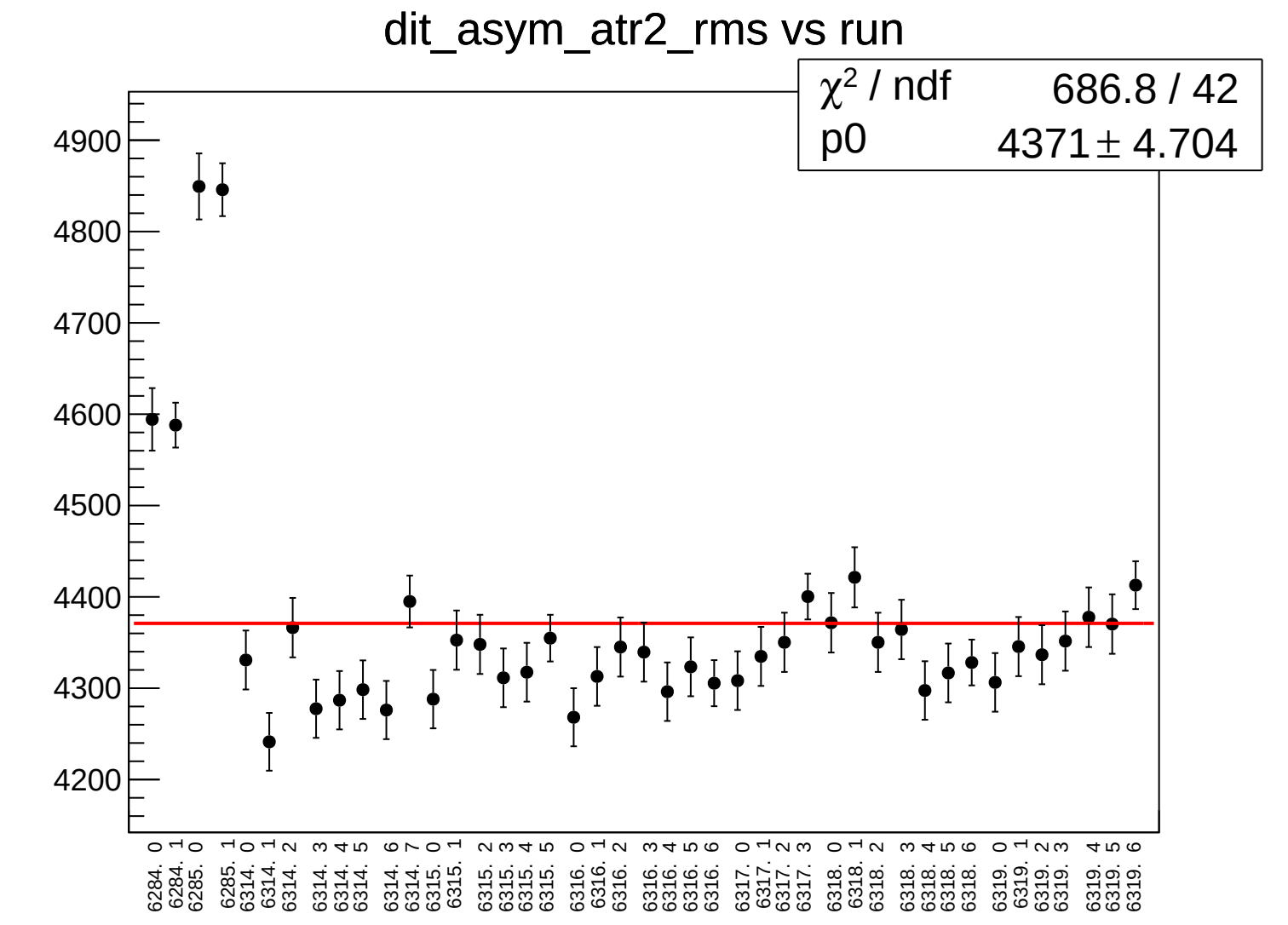

asym_atr1_correction_rms vs run
χ² / ndf 1536 / 42
p0 774.1 ± 0.8335
860
840
820
800
780
760
740
720
700
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

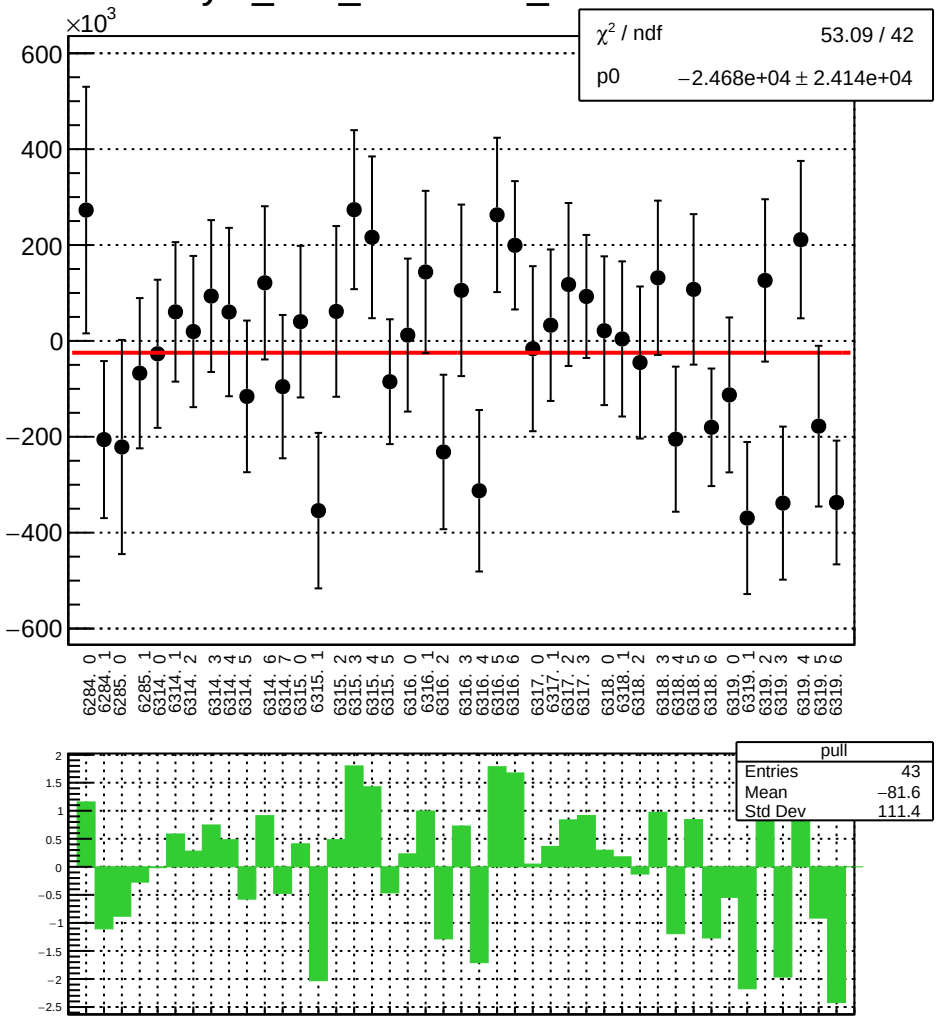

asym_atr1_mean vs run
χ² / ndf 30.04 / 42
p0 1112 ± 4512
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 1.72
Std Dev 30.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01879
Std Dev 0.8356
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

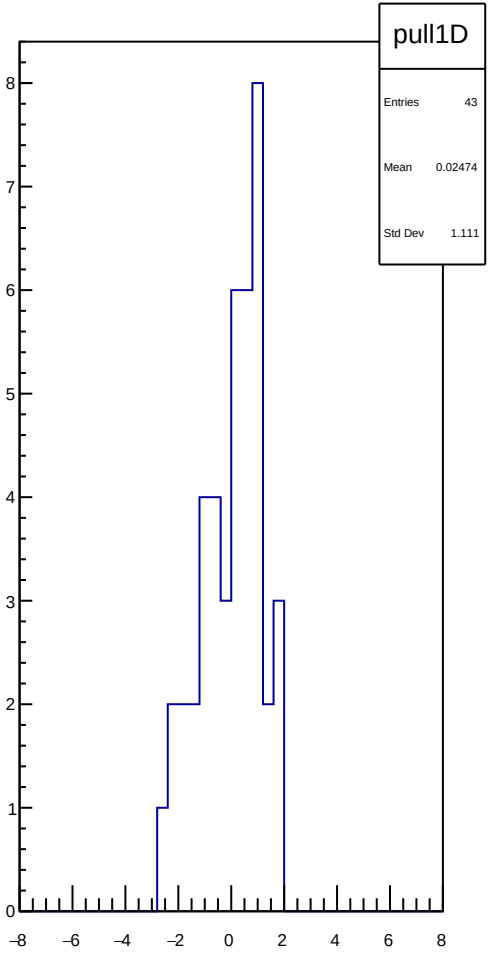

asym_atr1_rms vs run
χ² / ndf 44.52 / 42
p0 2966 ± 3.19
3020
3000
2980
2960
2940
2920
2900
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

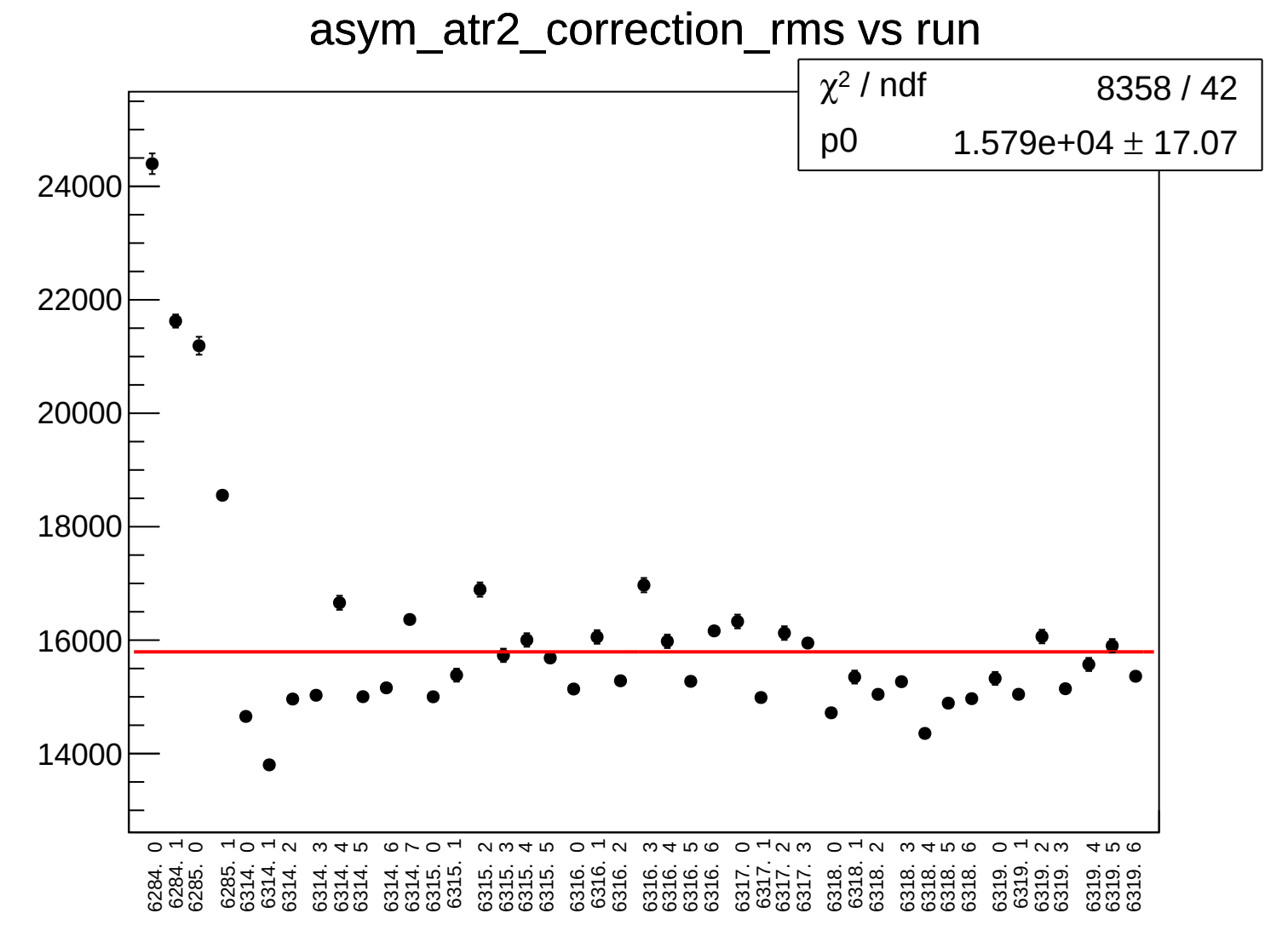

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 56.9 / 42
p0 5307 ± 6653
250
200
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −690.1
Std Dev 713.2
3
2
1
0
−1
−2

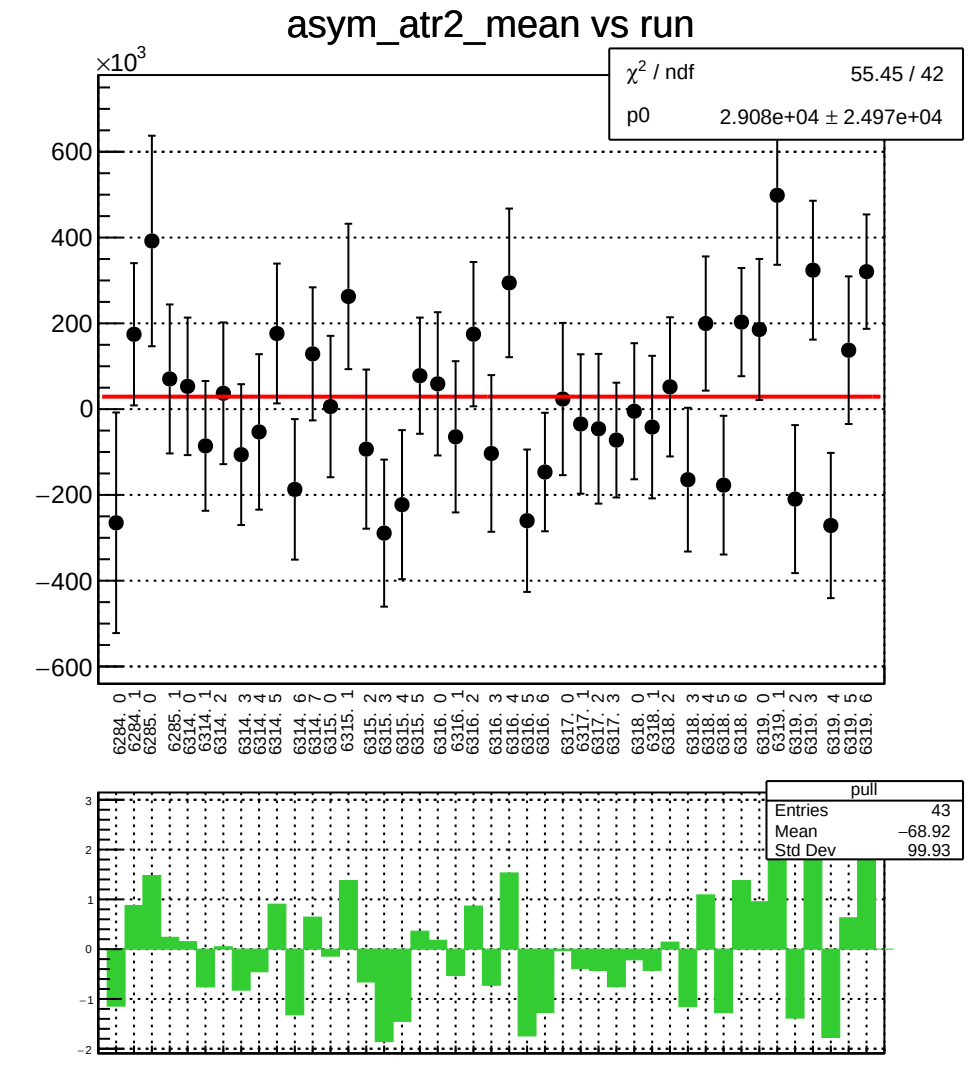

pull1D
Entries 43
Mean 0.003013
Std Dev 1.15
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

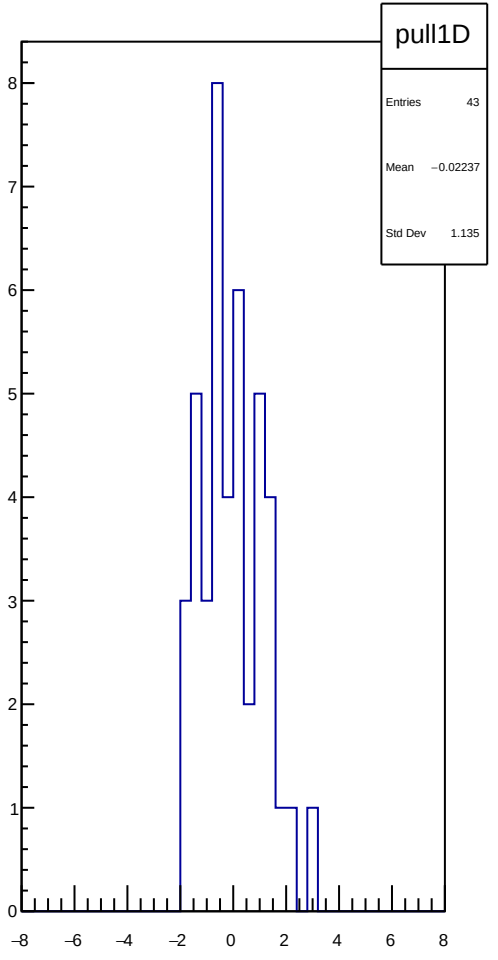

dit_asym_atr2_rms vs run
χ² / ndf 686.8 / 42
p0 4371 ± 4.704
4900
4800
4700
4600
4500
4400
4300
4200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

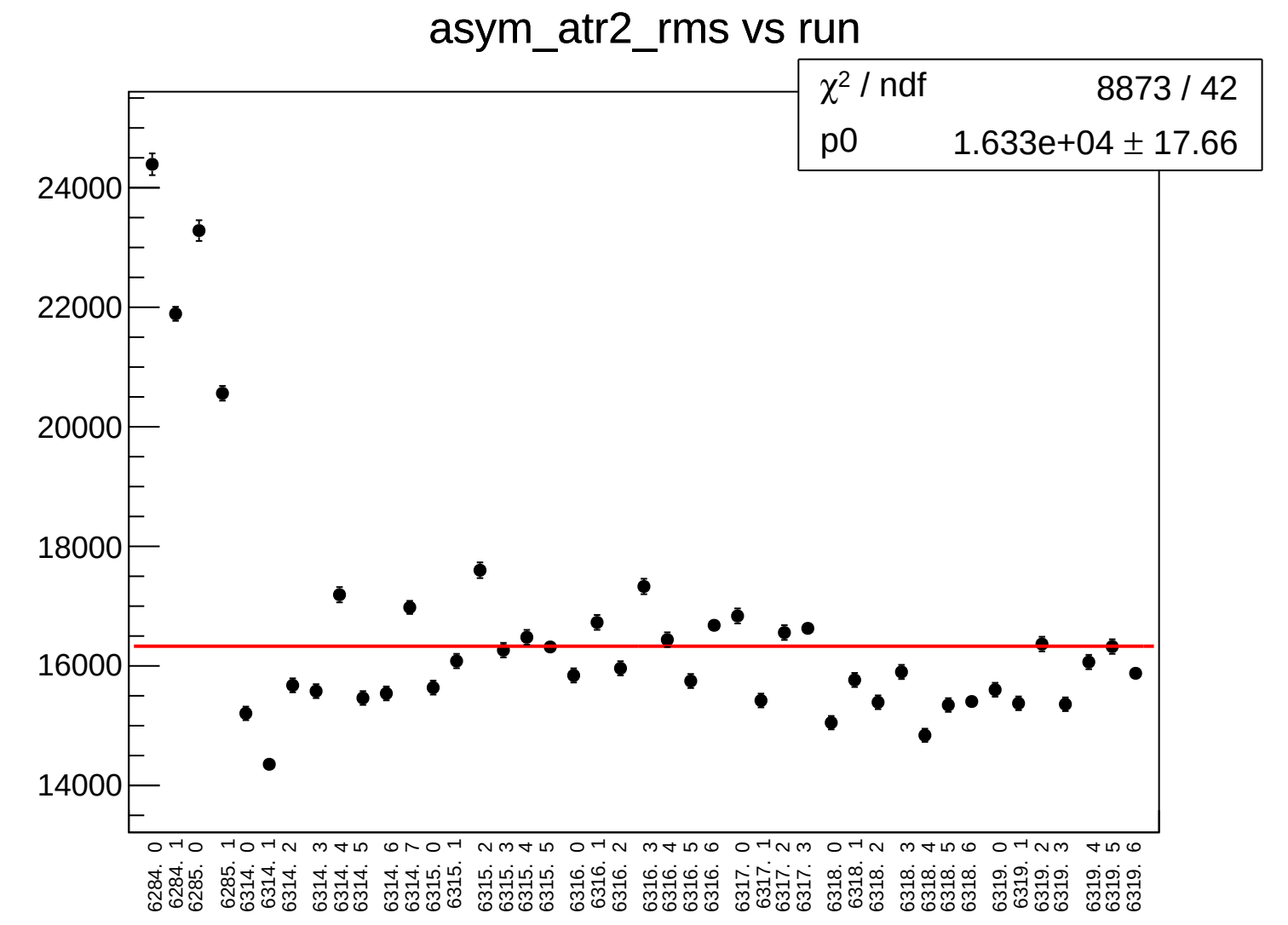

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 53.09 / 42
p0 −2.468e+04 ± 2.414e+04
pull
Entries 43
Mean −81.6
Std Dev 111.4

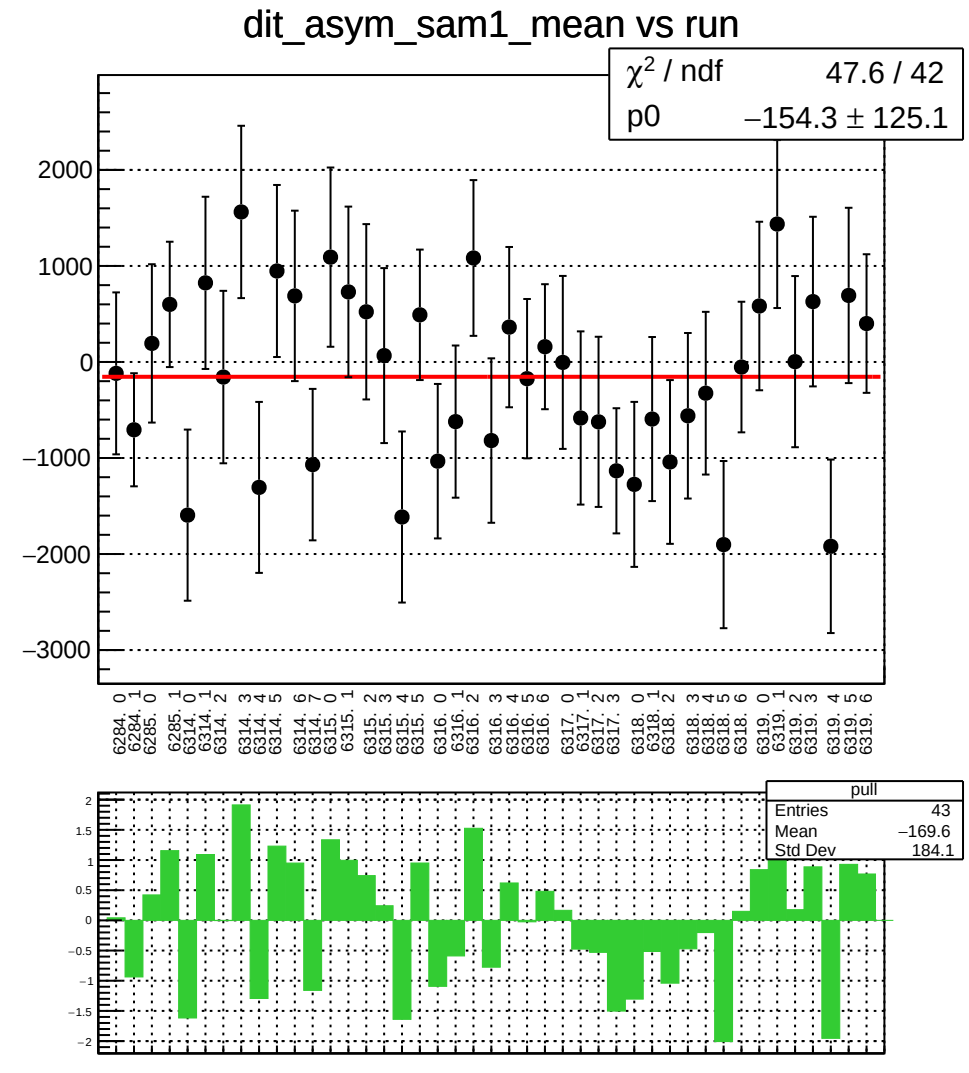

pull1D
Entries 43
Mean 0.02474
Std Dev 1.111

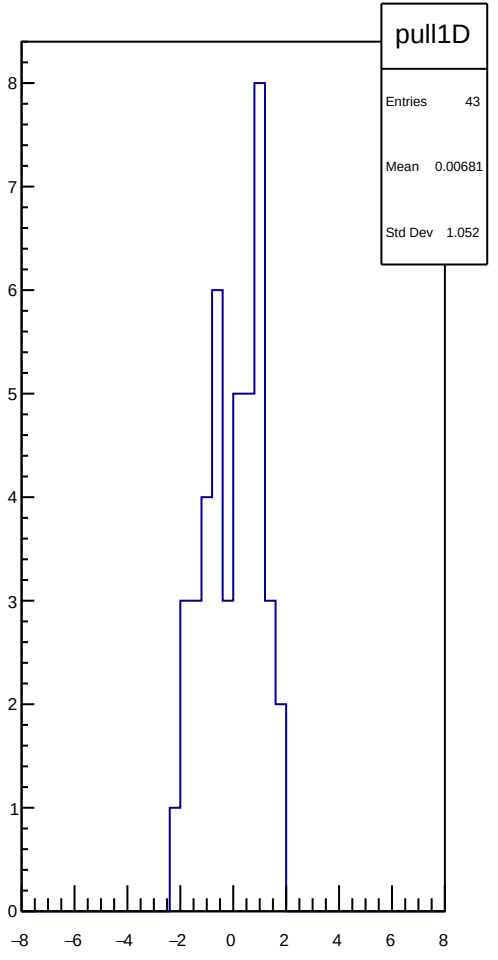

asym_atr2_correction_rms vs run
χ² / ndf 8358 / 42
p0 1.579e+04 ± 17.07
24000
22000
20000
18000
16000
14000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

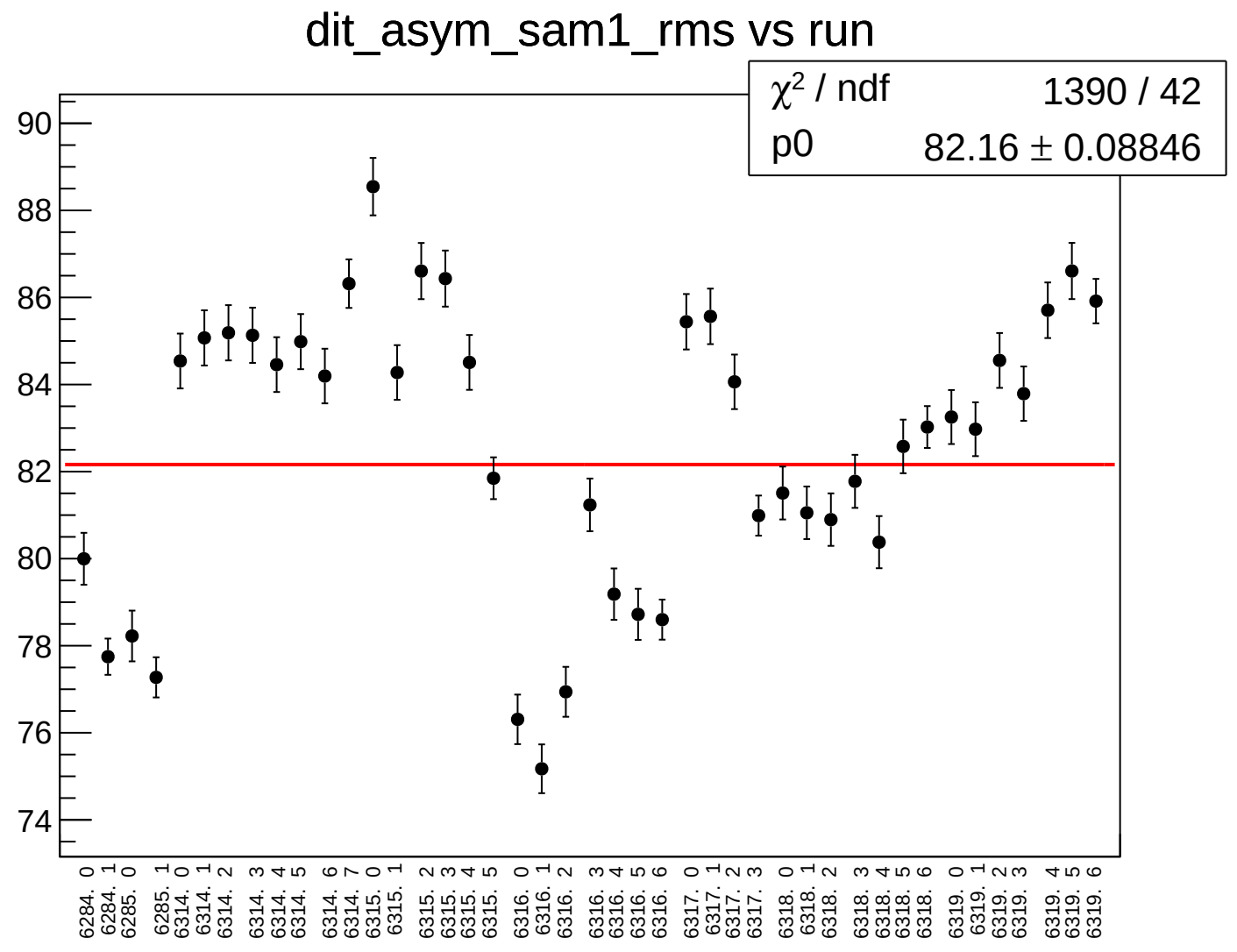

asym_atr2_mean vs run
×10^3
χ² / ndf 55.45 / 42
p0 2.908e+04 ± 2.497e+04
600
400
200
0
−200
−400
−600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −68.92
Std Dev 99.93
3
2
1
0
−1
−2

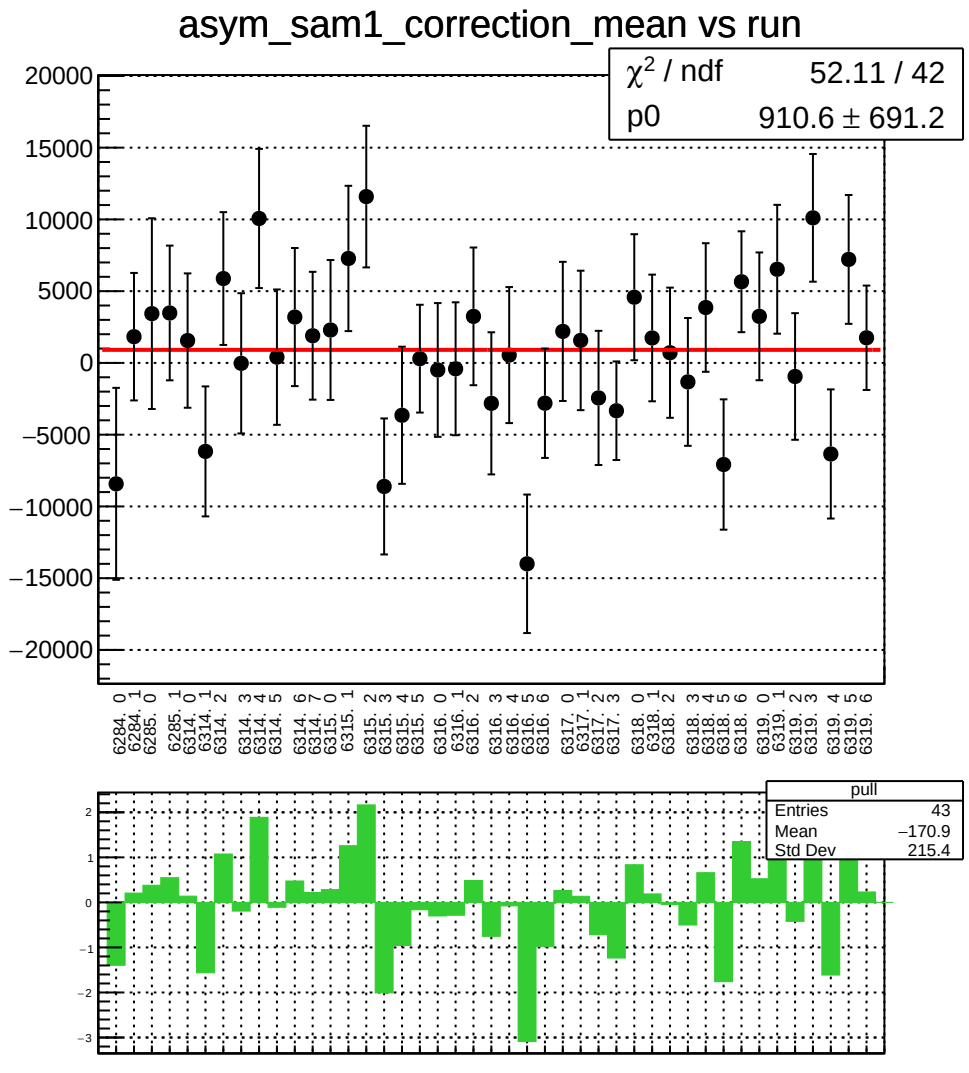

pull1D
Entries 43
Mean −0.02237
Std Dev 1.135
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

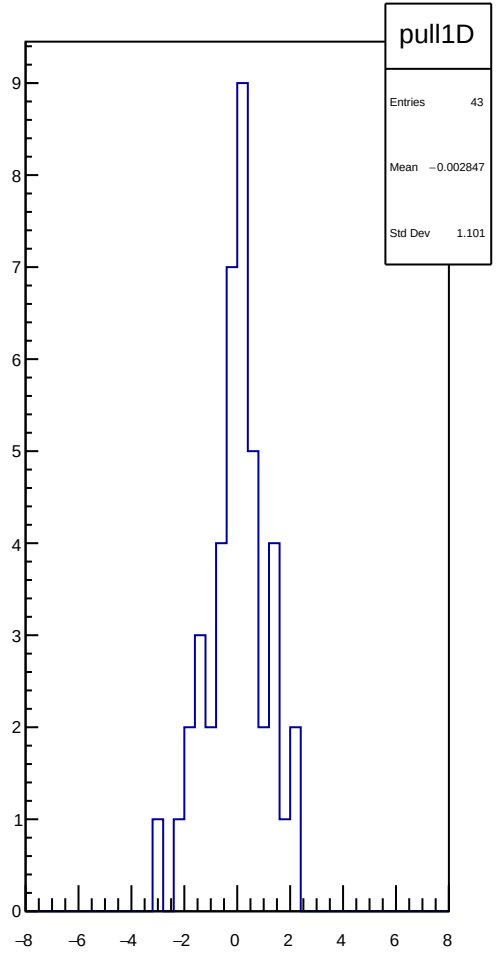

asym_atr2_rms vs run
χ² / ndf 8873 / 42
p0 1.633e+04 ± 17.66
24000
22000
20000
18000
16000
14000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

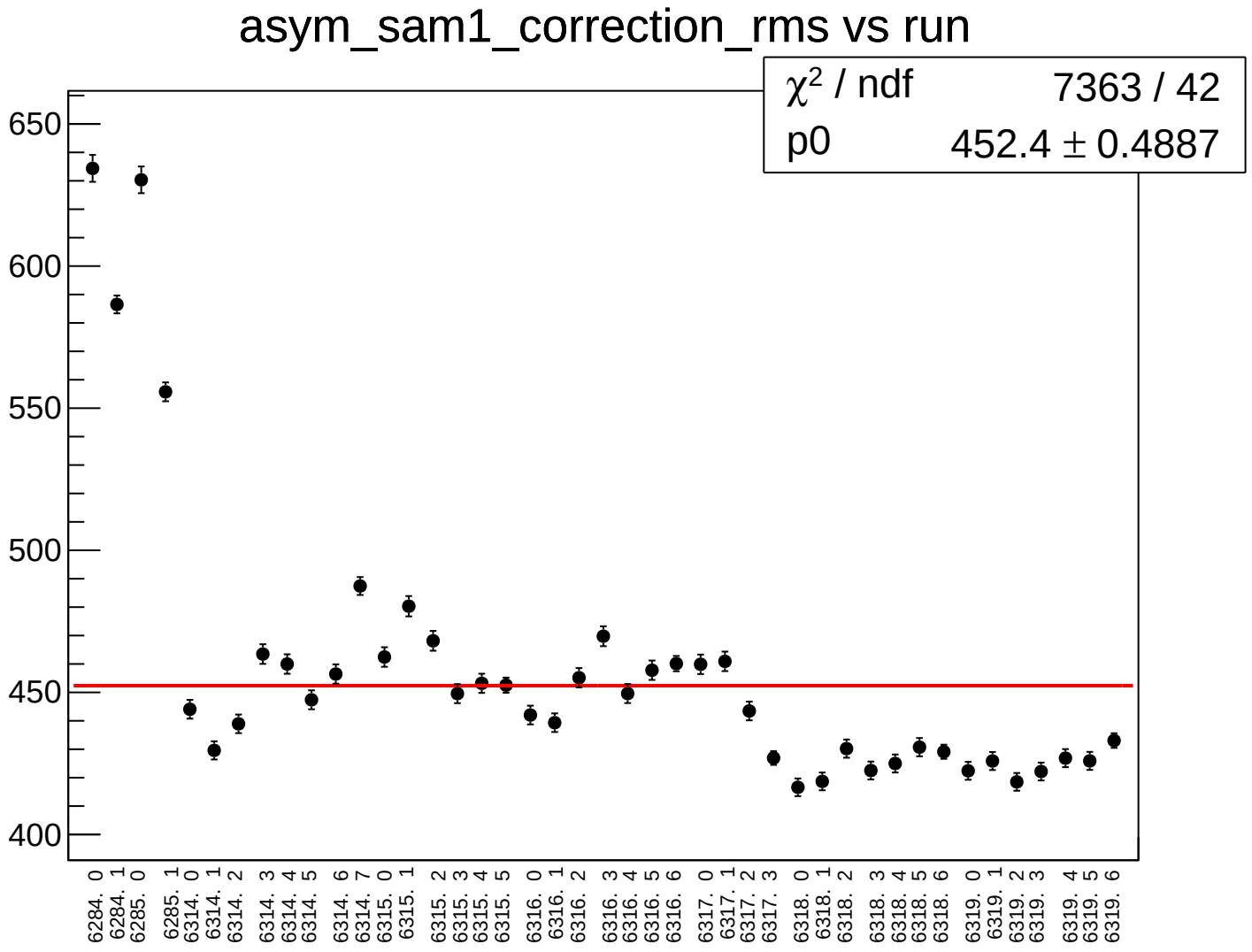

dit_asym_sam1_mean vs run
χ² / ndf 47.6 / 42
p0 −154.3 ± 125.1
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −169.6
Std Dev 184.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

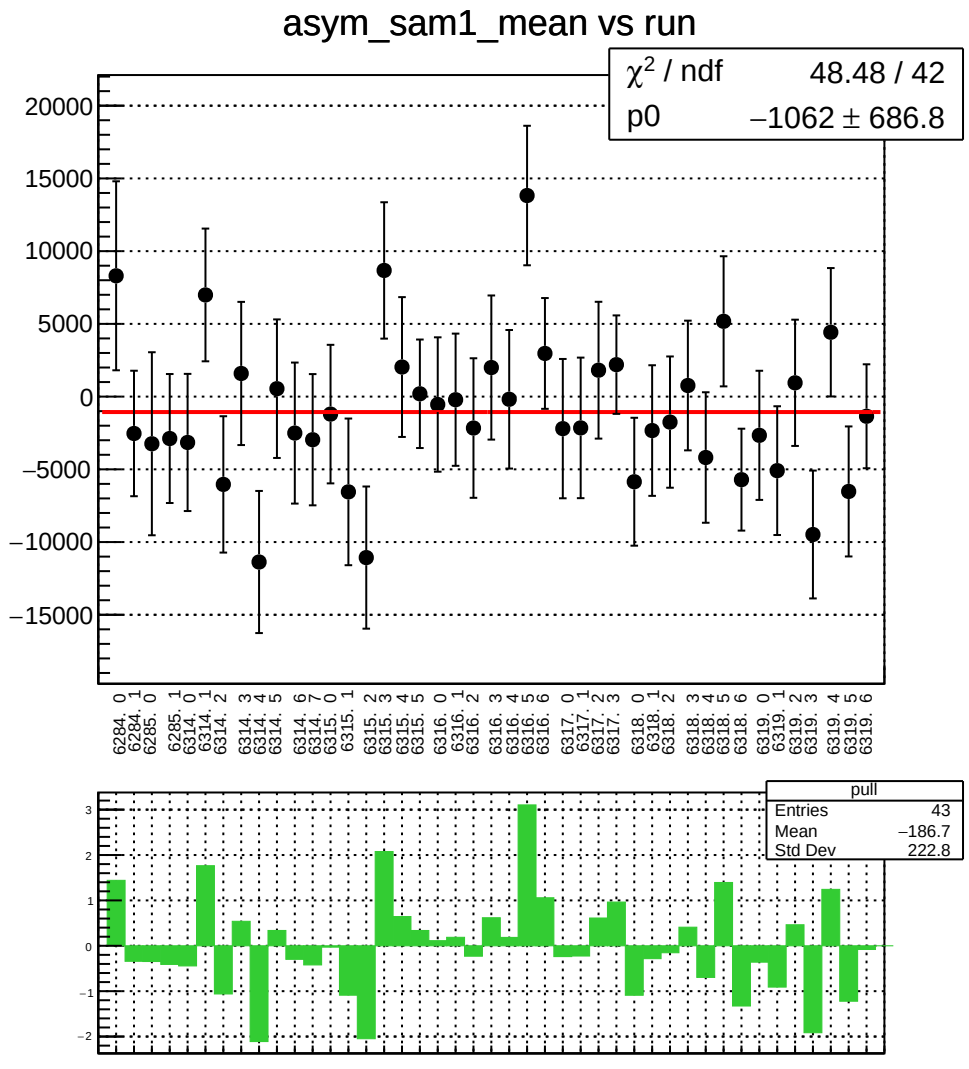

pull1D
Entries 43
Mean 0.00681
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

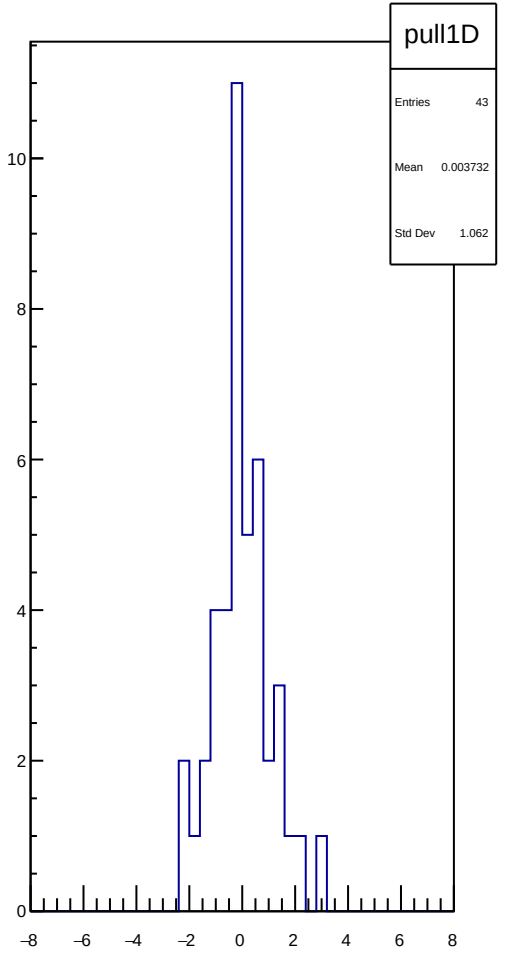

dit_asym_sam1_rms vs run
χ² / ndf 1390 / 42
p0 82.16 ± 0.08846
90
88
86
84
82
80
78
76
74
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

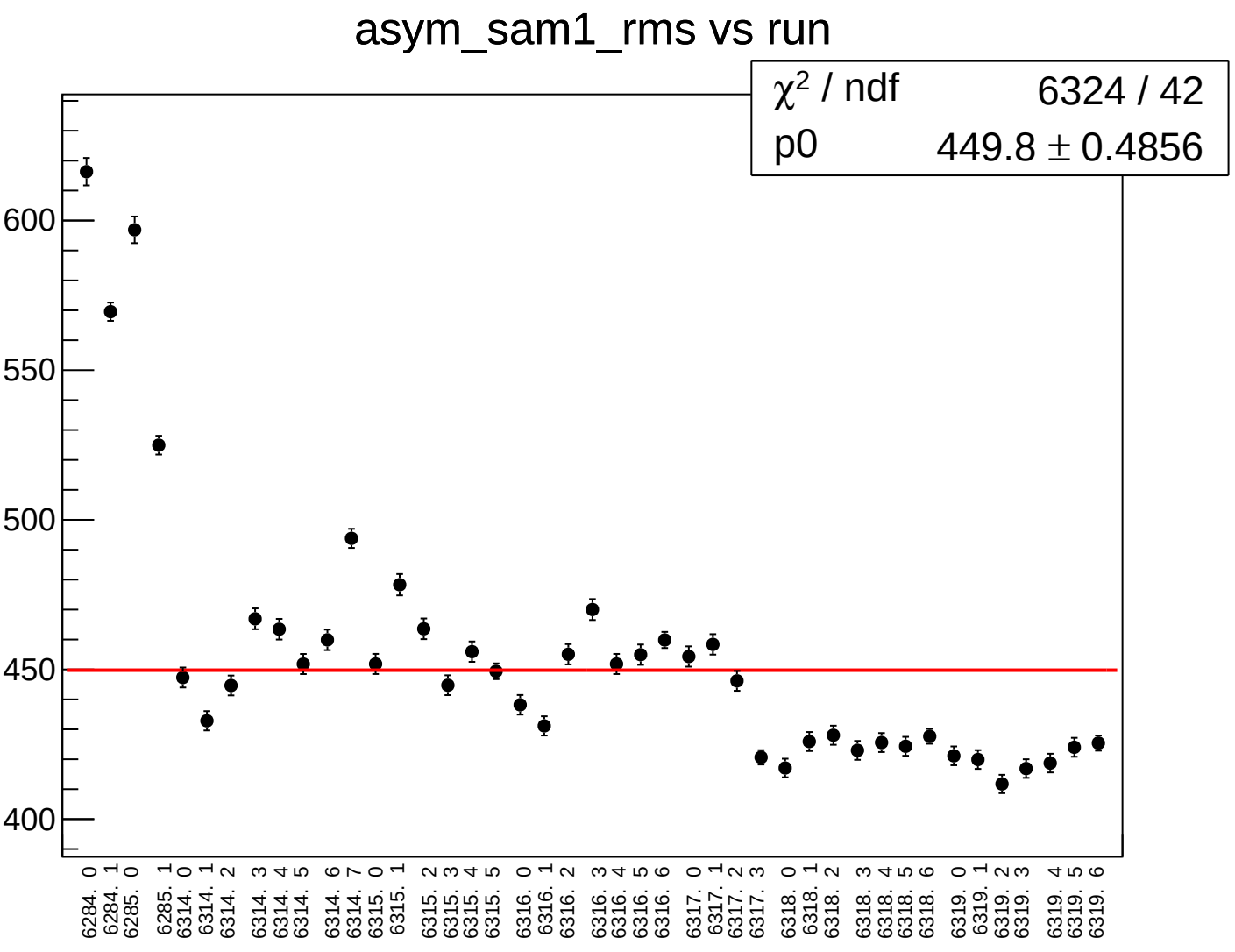

asym_sam1_correction_mean vs run
χ² / ndf 52.11 / 42
p0 910.6 ± 691.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −170.9
Std Dev 215.4
2
1
0
−1
−2
−3

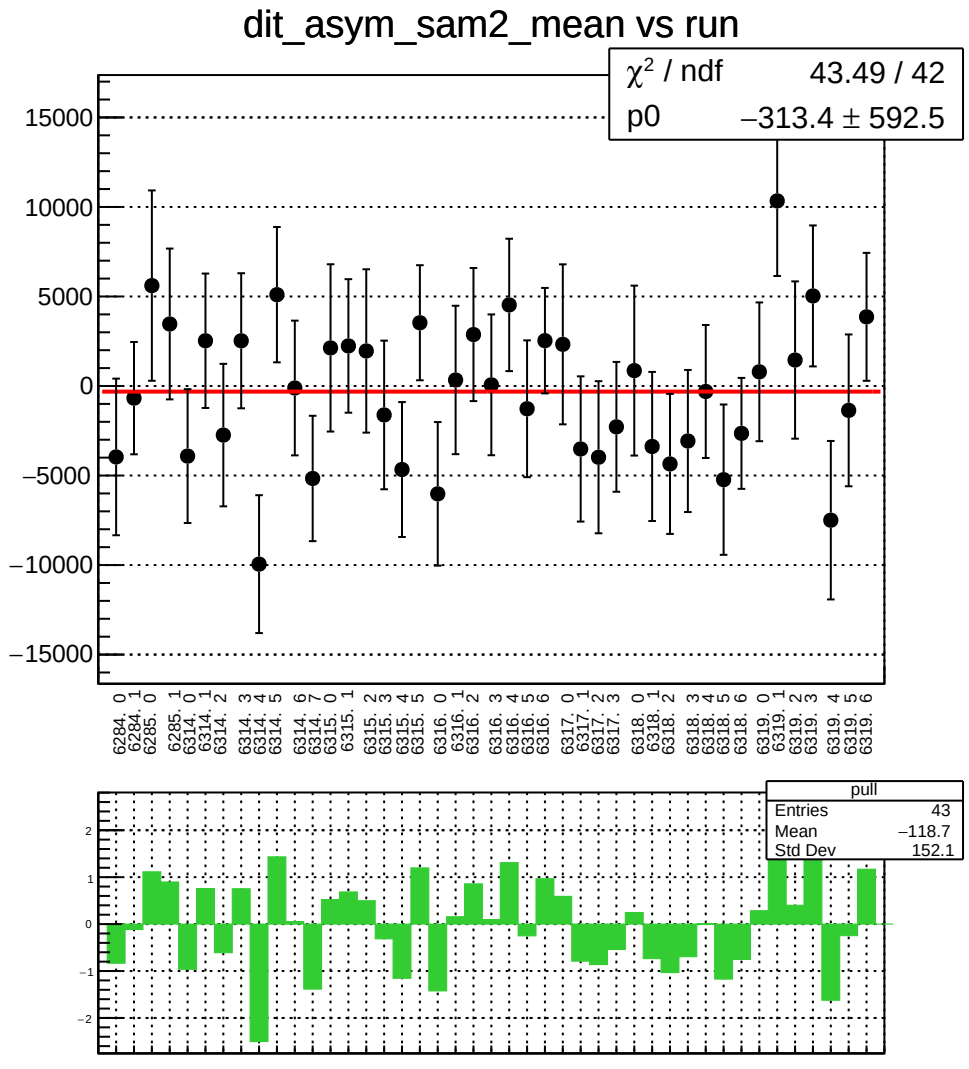

pull1D
Entries 43
Mean −0.002847
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

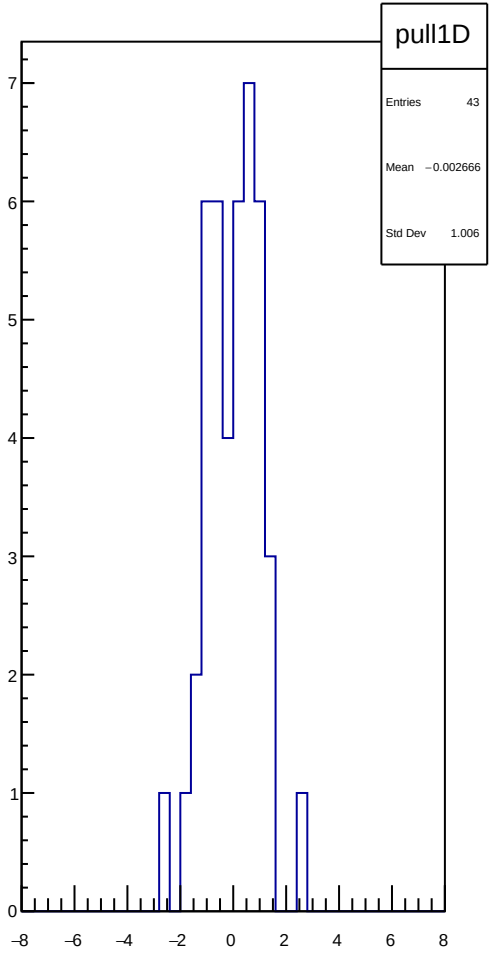

asym_sam1_correction_rms vs run
χ² / ndf 7363 / 42
p0 452.4 ± 0.4887
650
600
550
500
450
400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

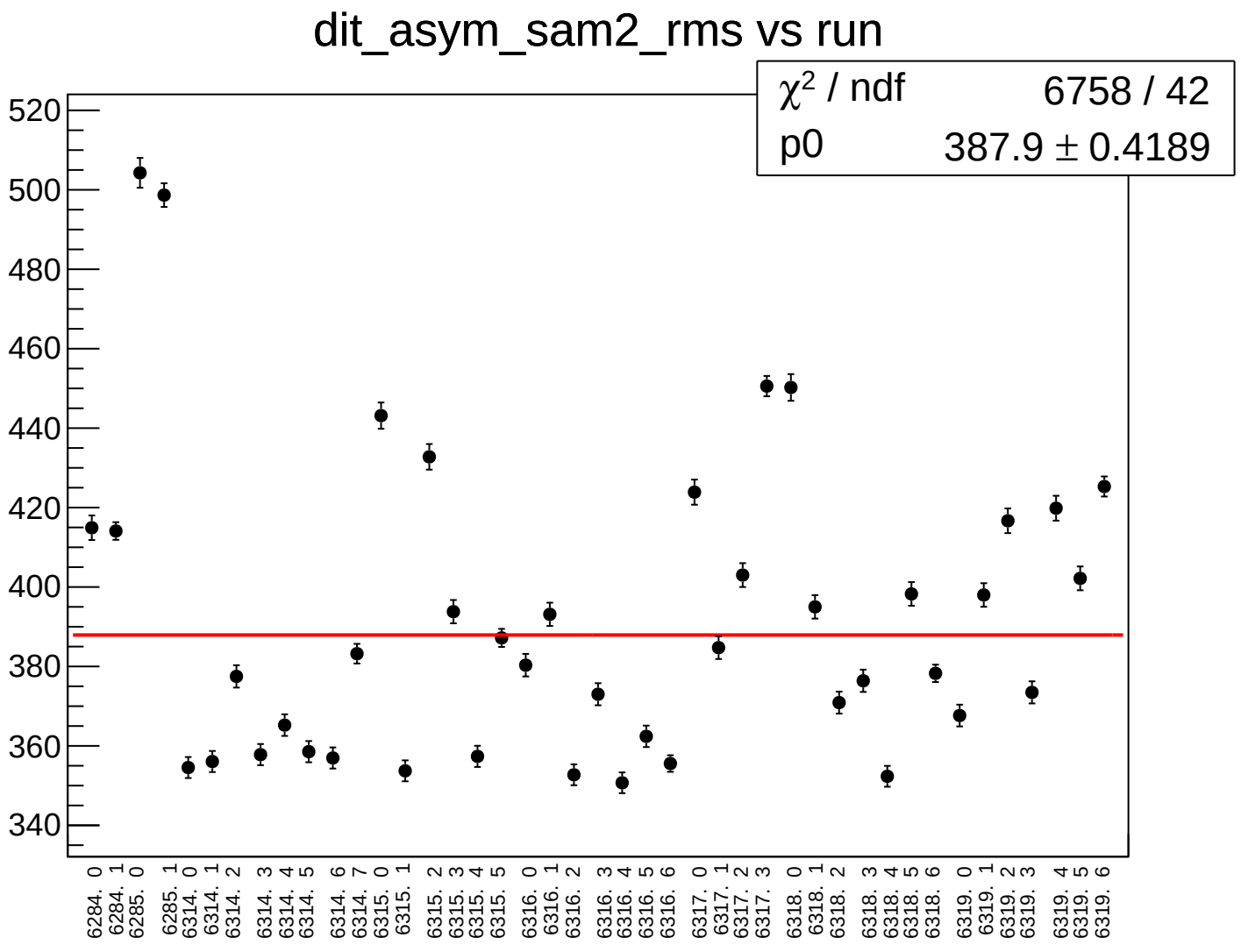

asym_sam1_mean vs run
χ² / ndf 48.48 / 42
p0 −1062 ± 686.8
20000
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −186.7
Std Dev 222.8
3
2
1
0
−1
−2

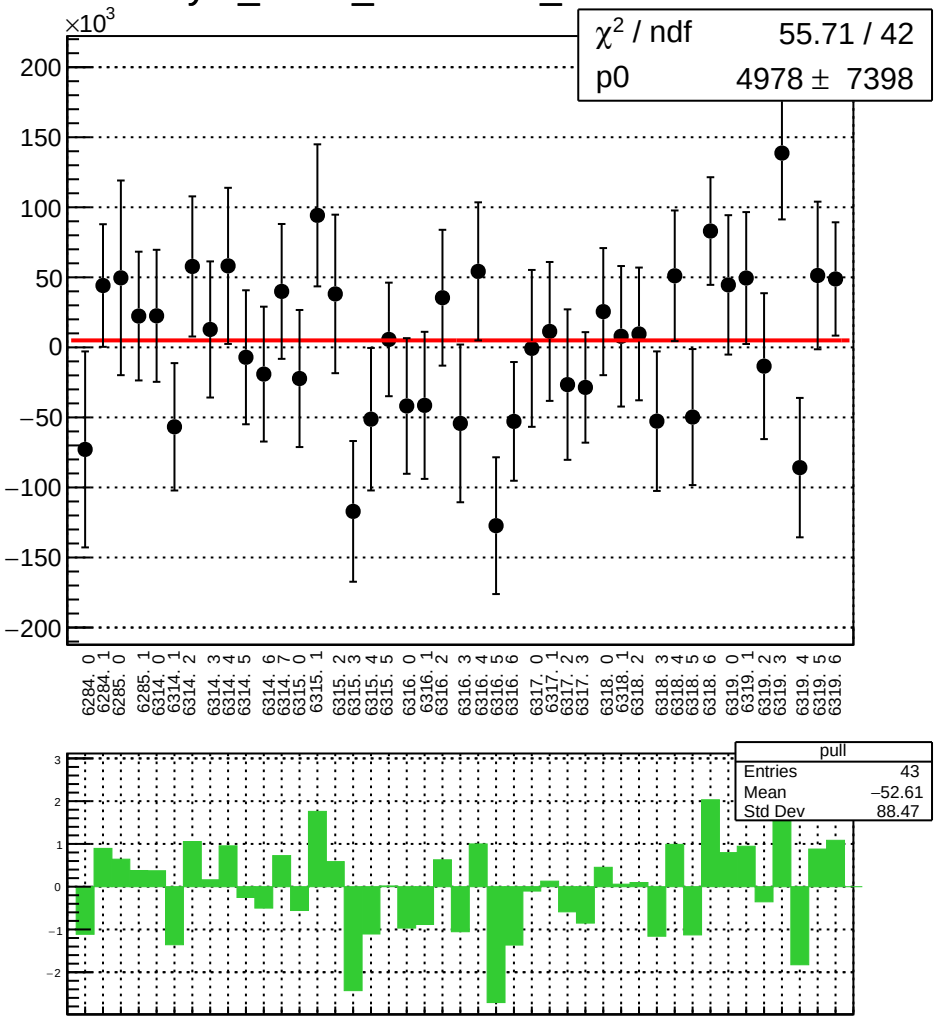

pull1D
Entries 43
Mean 0.003732
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

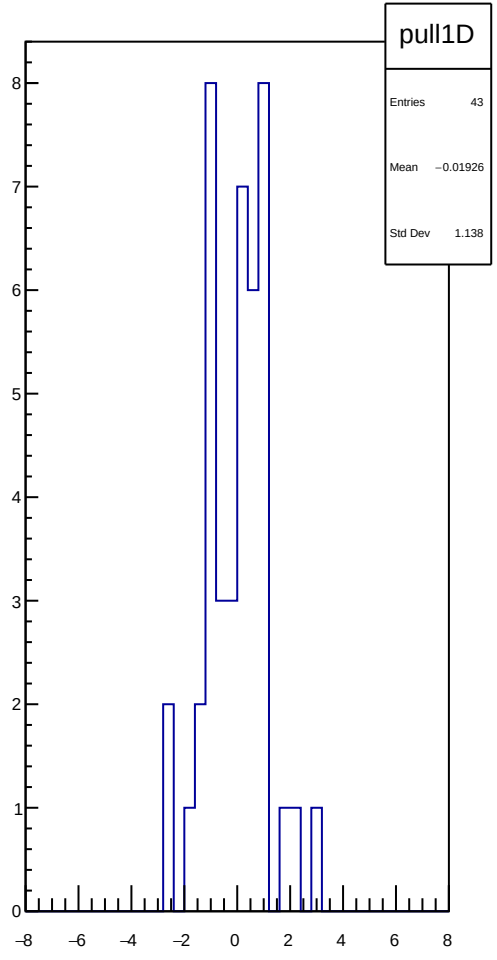

asym_sam1_rms vs run
χ² / ndf 6324 / 42
p0 449.8 ± 0.4856
600
550
500
450
400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

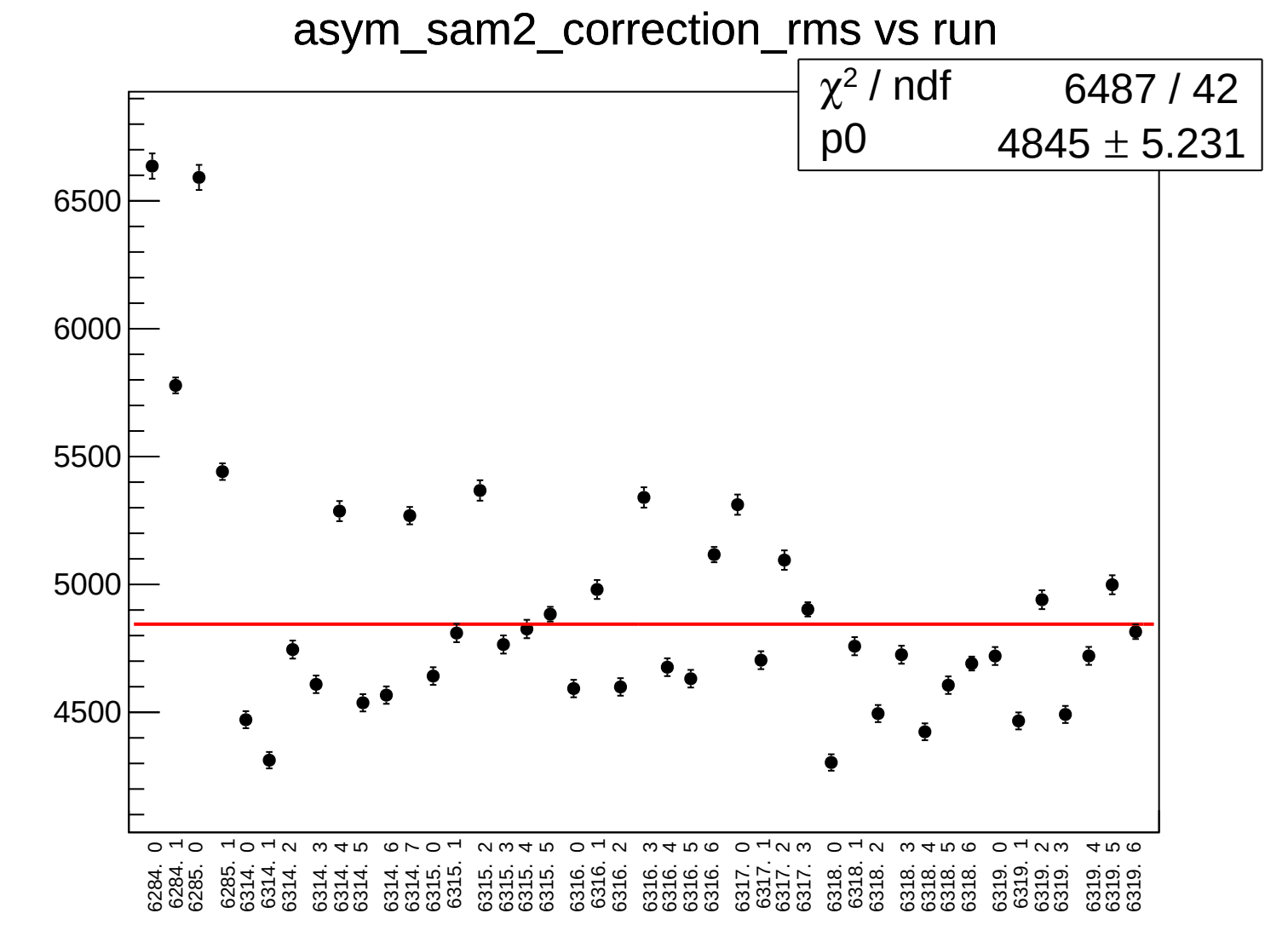

dit_asym_sam2_mean vs run
χ² / ndf 43.49 / 42
p0 −313.4 ± 592.5
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −118.7
Std Dev 152.1
2
1
0
−1
−2

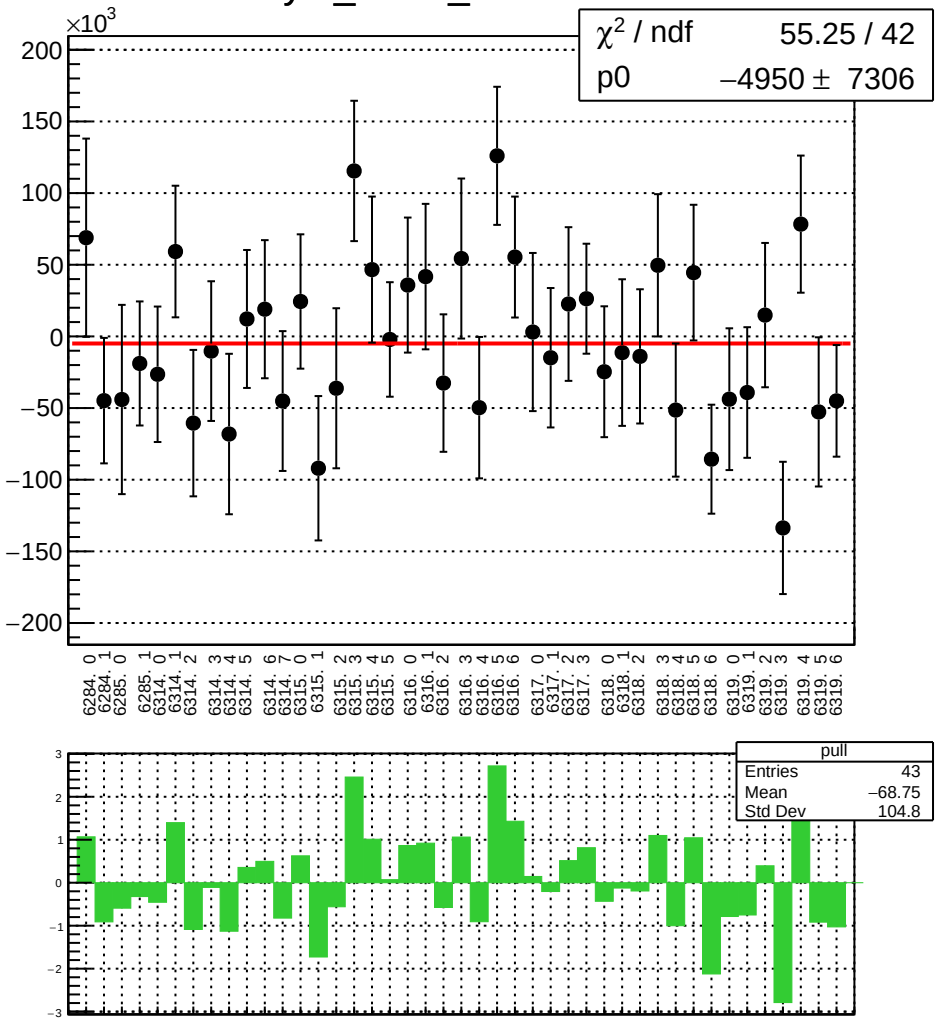

pull1D
Entries 43
Mean −0.002666
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

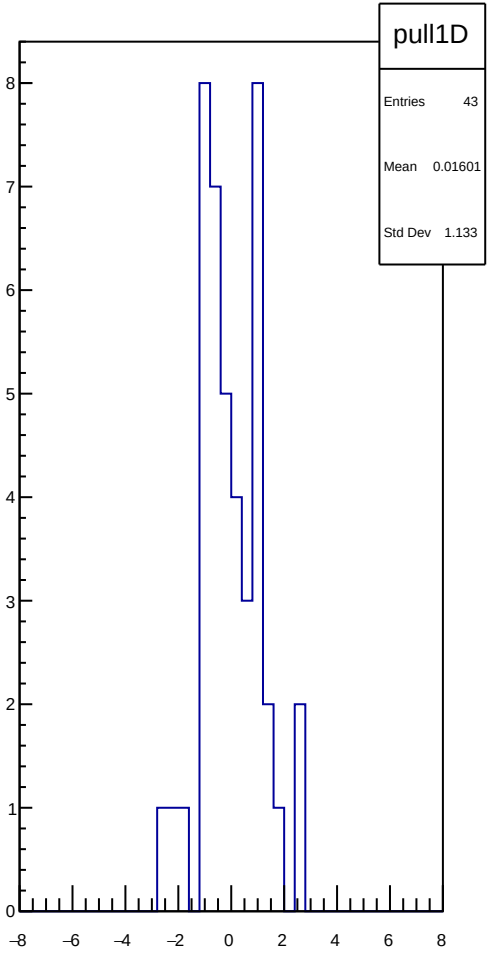

dit_asym_sam2_rms vs run
χ² / ndf 6758 / 42
p0 387.9 ± 0.4189
520
500
480
460
440
420
400
380
360
340
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

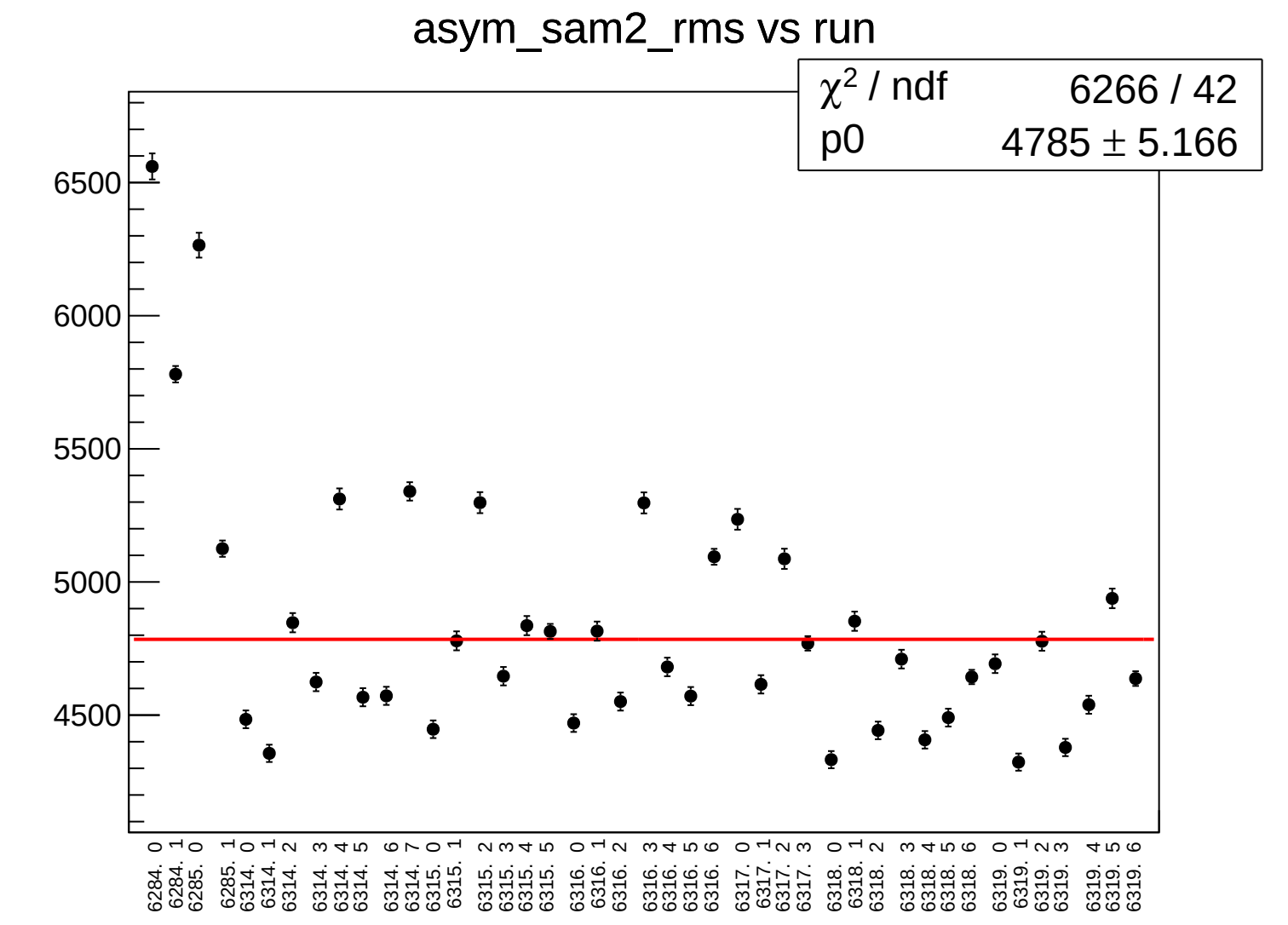

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 55.71 / 42
p0 4978 ± 7398
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −52.61
Std Dev 88.47
3
2
1
0
−1
−2

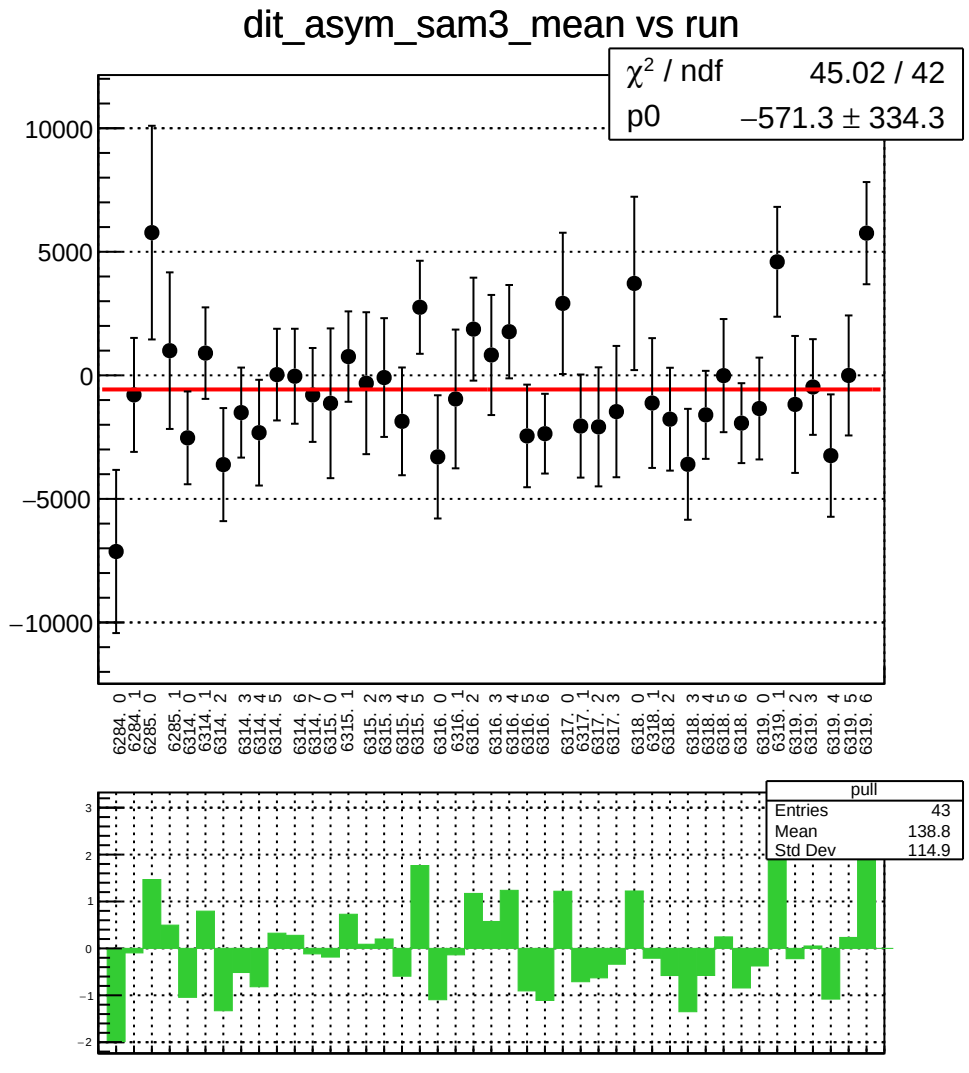

pull1D
Entries 43
Mean −0.01926
Std Dev 1.138
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

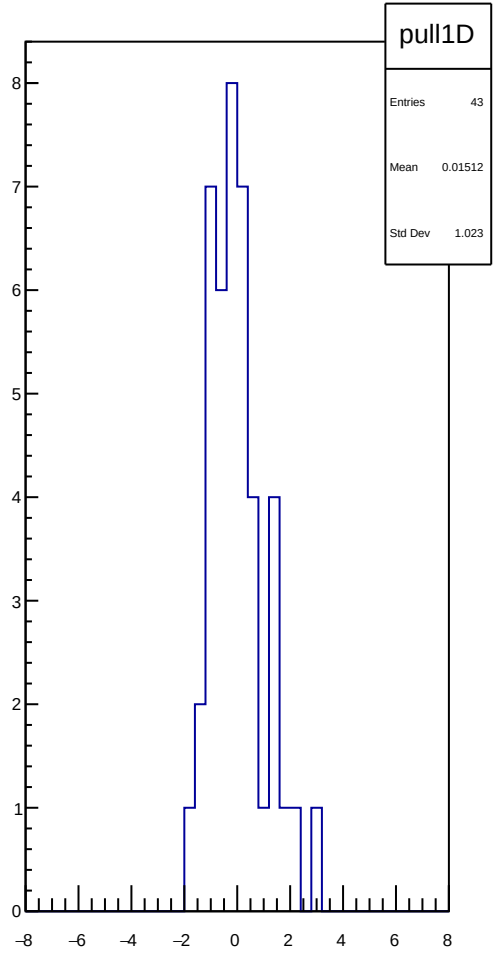

asym_sam2_correction_rms vs run
χ² / ndf 6487 / 42
p0 4845 ± 5.231
6500
6000
5500
5000
4500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

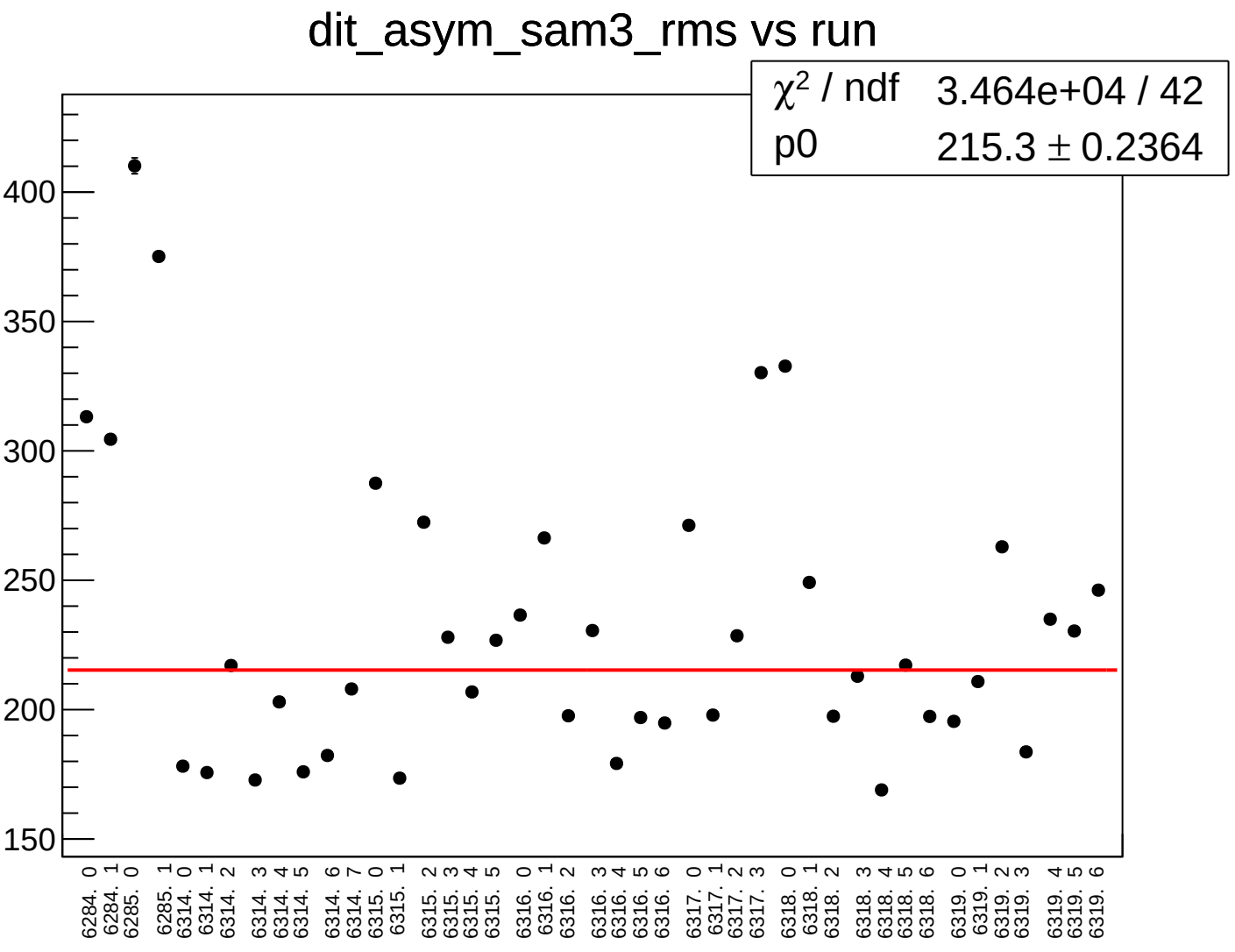

asym_sam2_mean vs run
×10^3
χ² / ndf 55.25 / 42
p0 −4950 ± 7306
200
150
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −68.75
Std Dev 104.8
3
2
1
0
−1
−2
−3

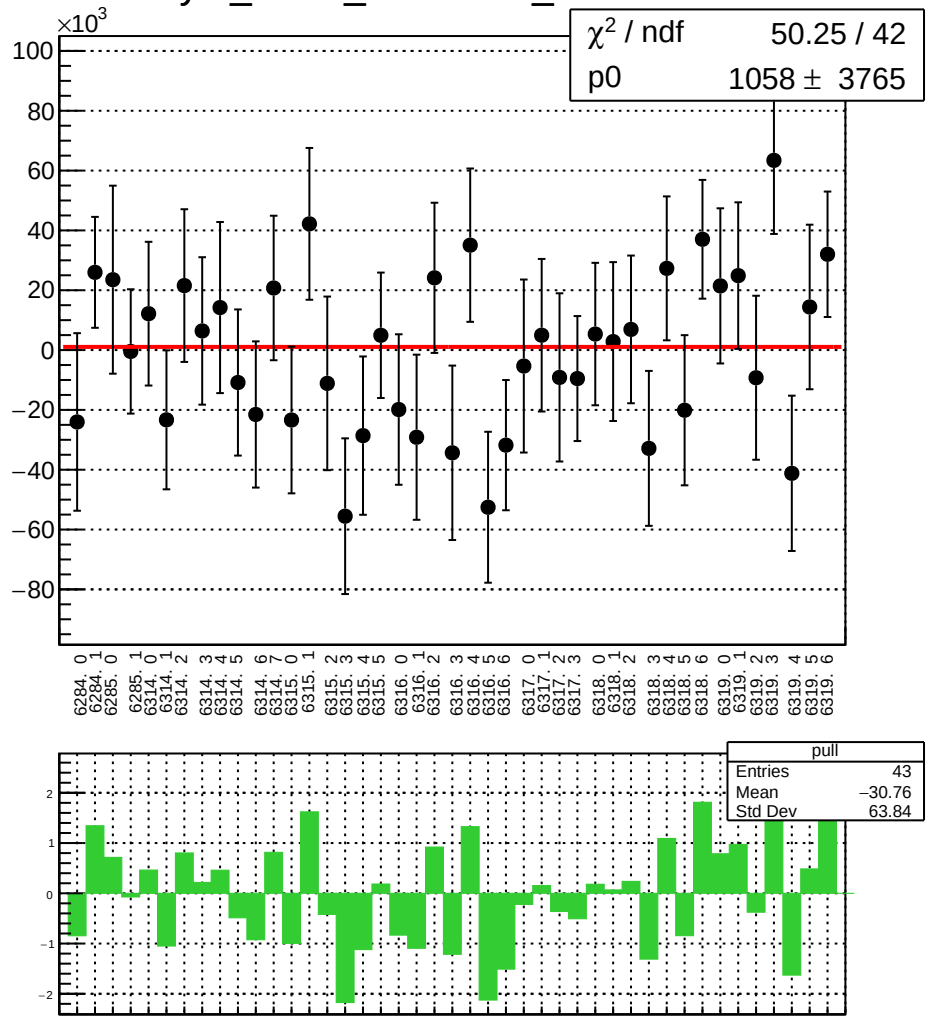

pull1D
Entries 43
Mean 0.01601
Std Dev 1.133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

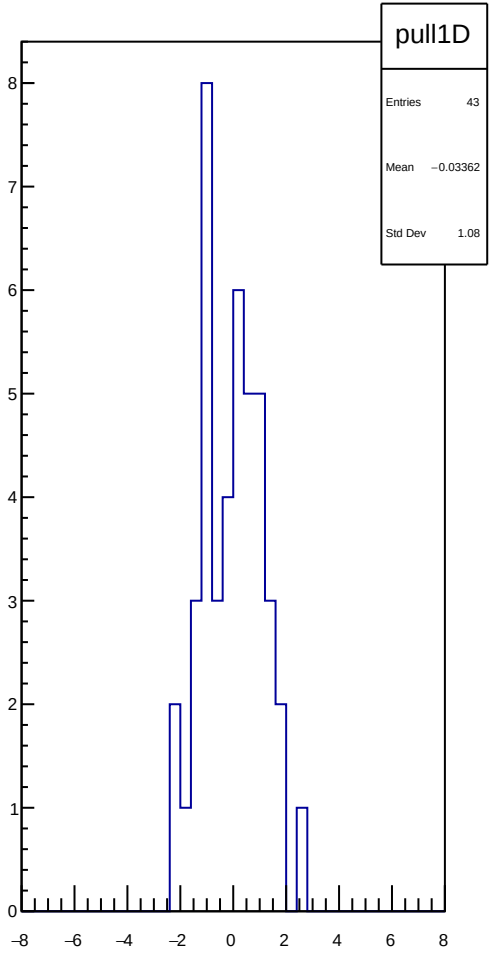

asym_sam2_rms vs run
χ² / ndf 6266 / 42
p0 4785 ± 5.166
6500
6000
5500
5000
4500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

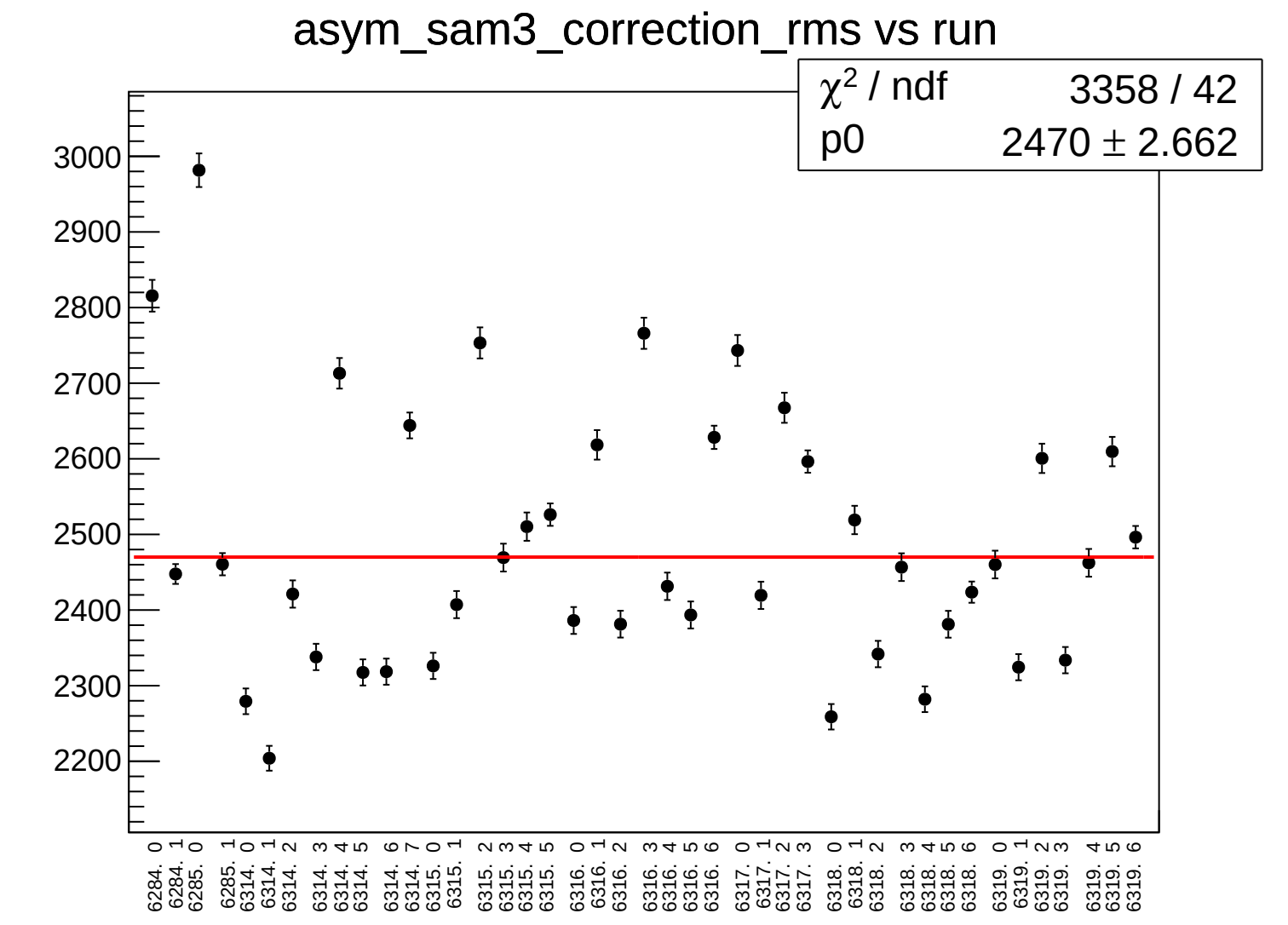

dit_asym_sam3_mean vs run
χ² / ndf 45.02 / 42
p0 −571.3 ± 334.3
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 138.8
Std Dev 114.9
3
2
1
0
−1
−2

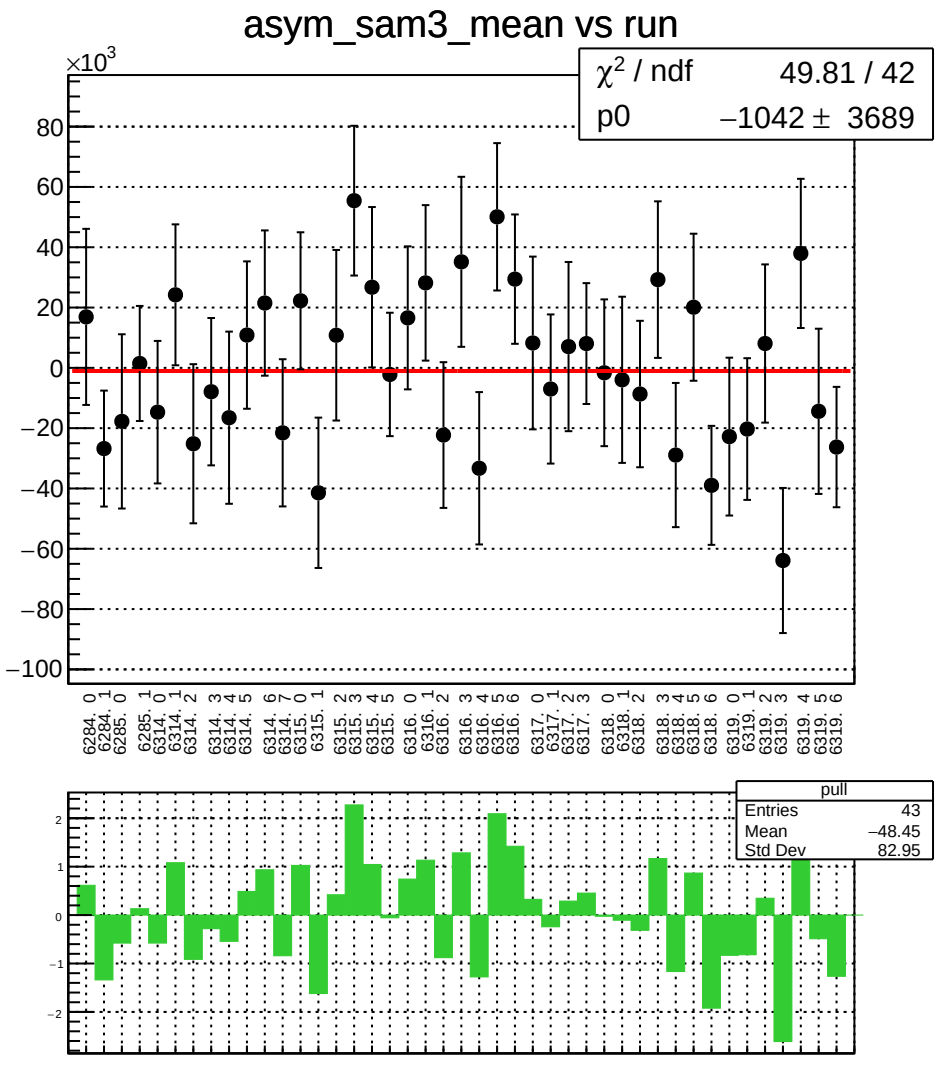

pull1D
Entries 43
Mean 0.01512
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

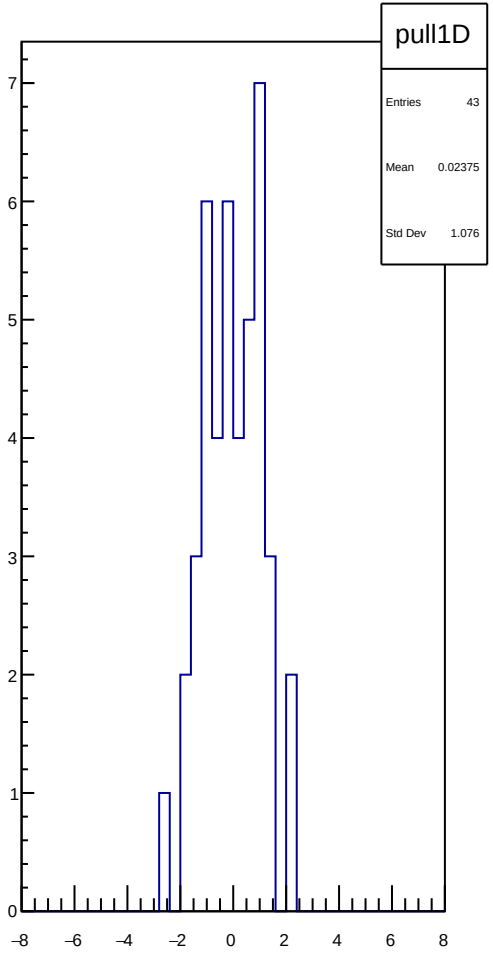

dit_asym_sam3_rms vs run
χ² / ndf 3.464e+04 / 42
p0 215.3 ± 0.2364
400
350
300
250
200
150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

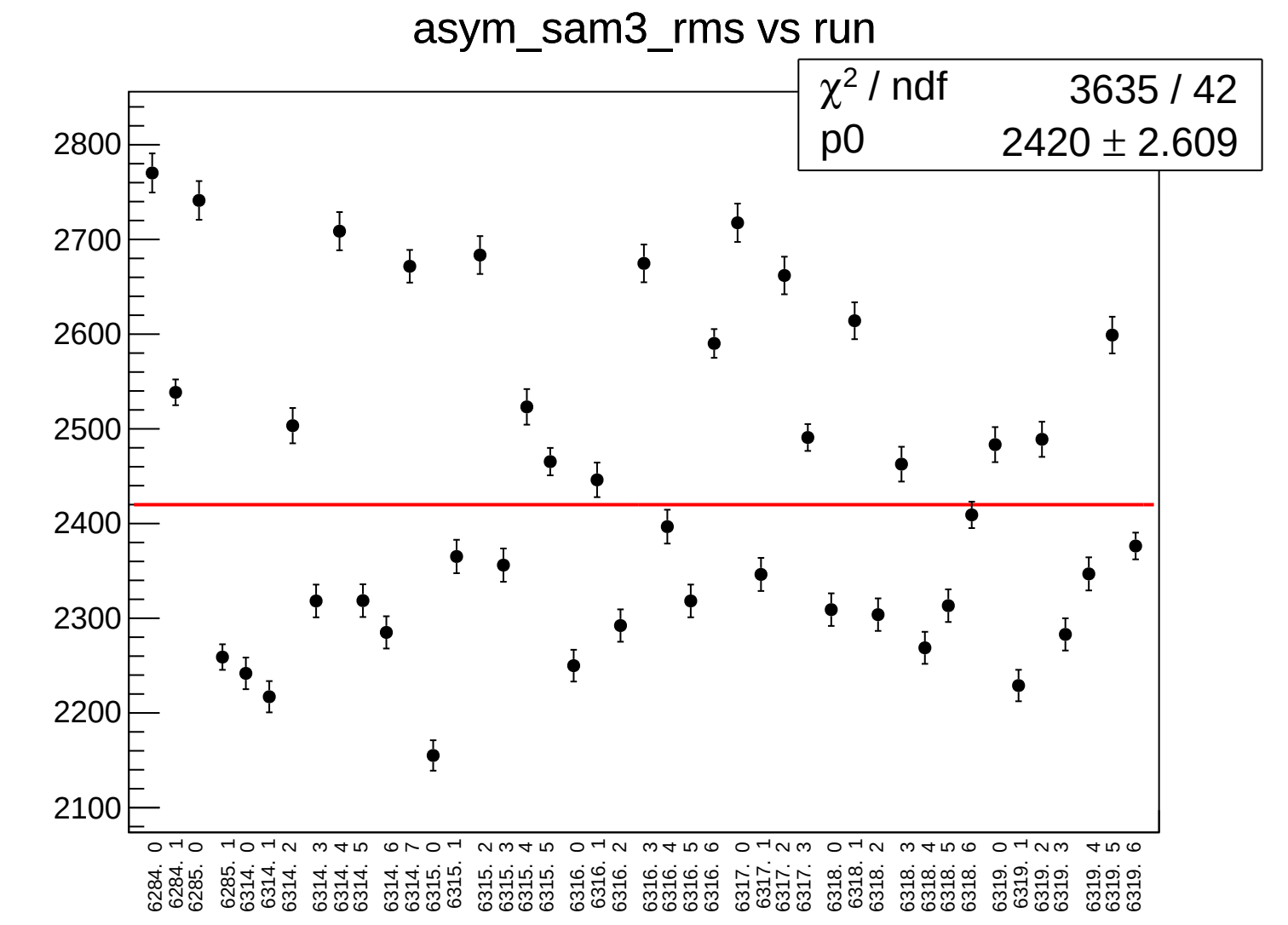

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 50.25 / 42
p0 1058 ± 3765
100
80
60
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −30.76
Std Dev 63.84
2
1
0
−1
−2

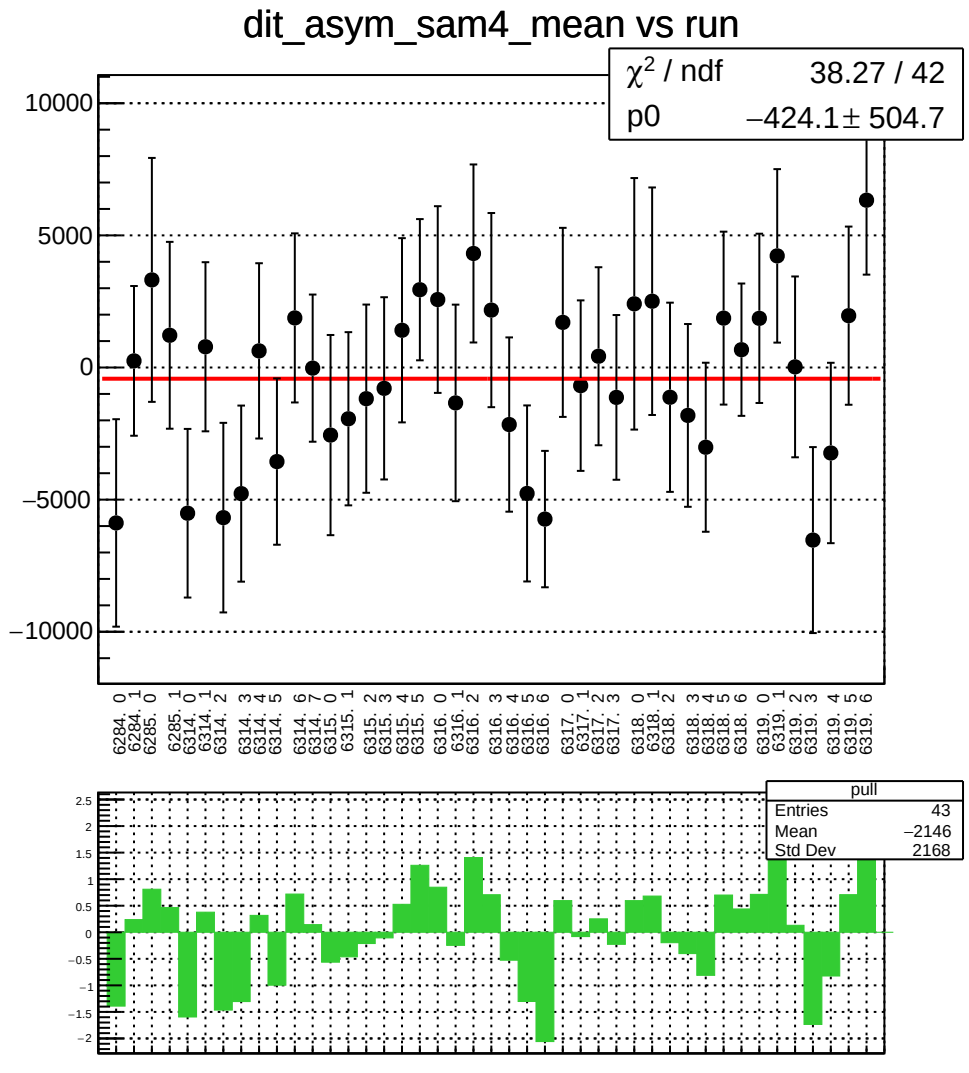

pull1D
Entries 43
Mean −0.03362
Std Dev 1.08
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

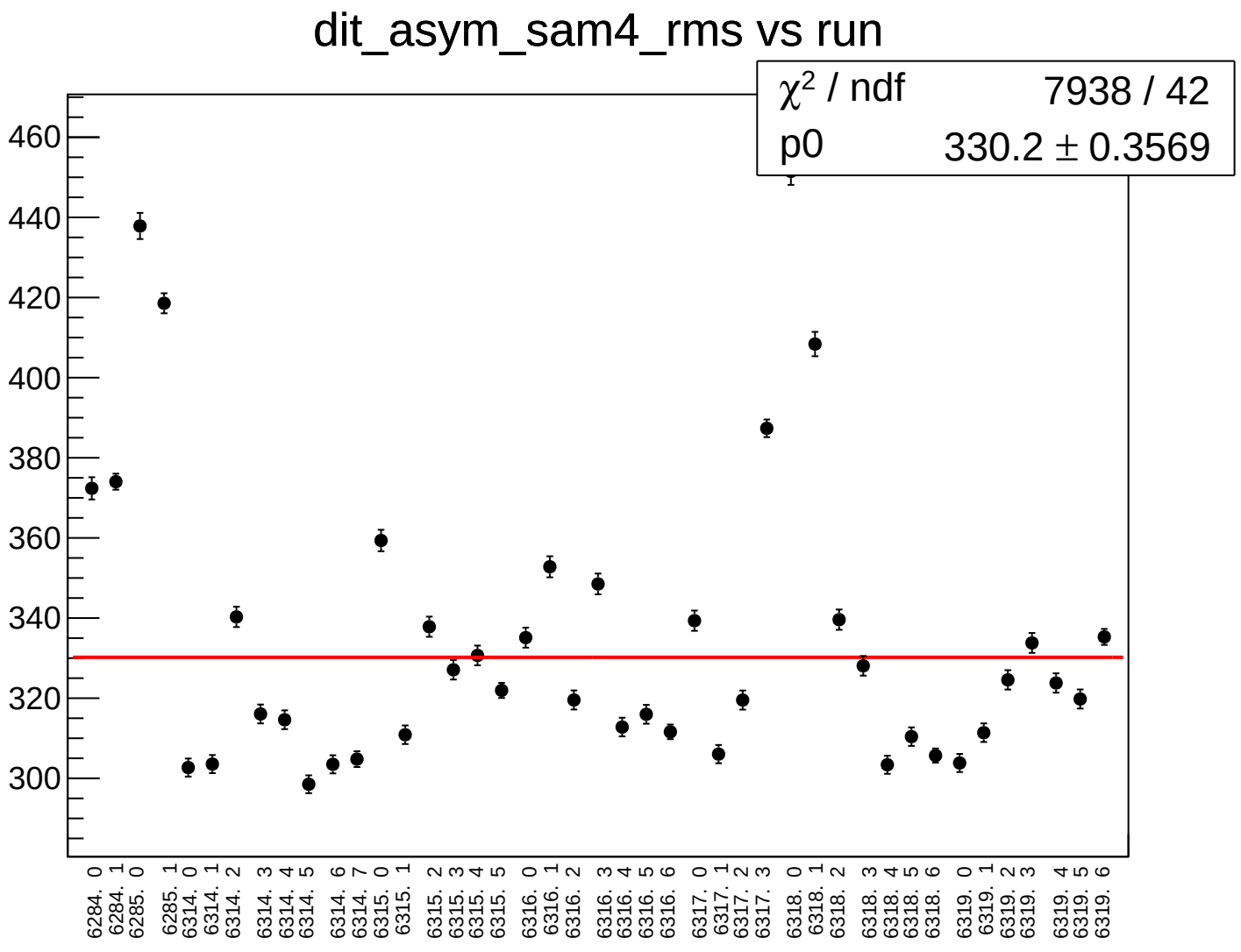

asym_sam3_correction_rms vs run
χ² / ndf 3358 / 42
p0 2470 ± 2.662
3000
2900
2800
2700
2600
2500
2400
2300
2200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

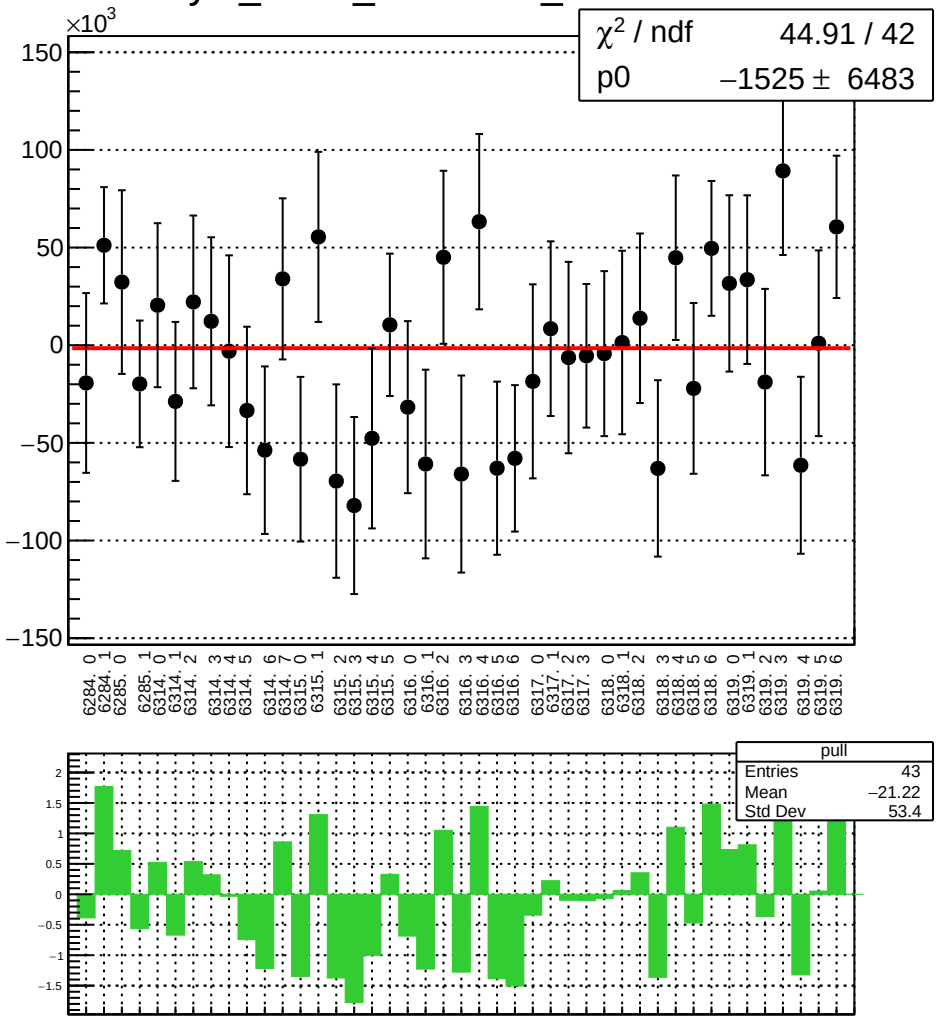

asym_sam3_mean vs run
×10^3
χ² / ndf 49.81 / 42
p0 −1042 ± 3689
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −48.45
Std Dev 82.95
2
1
0
−1
−2

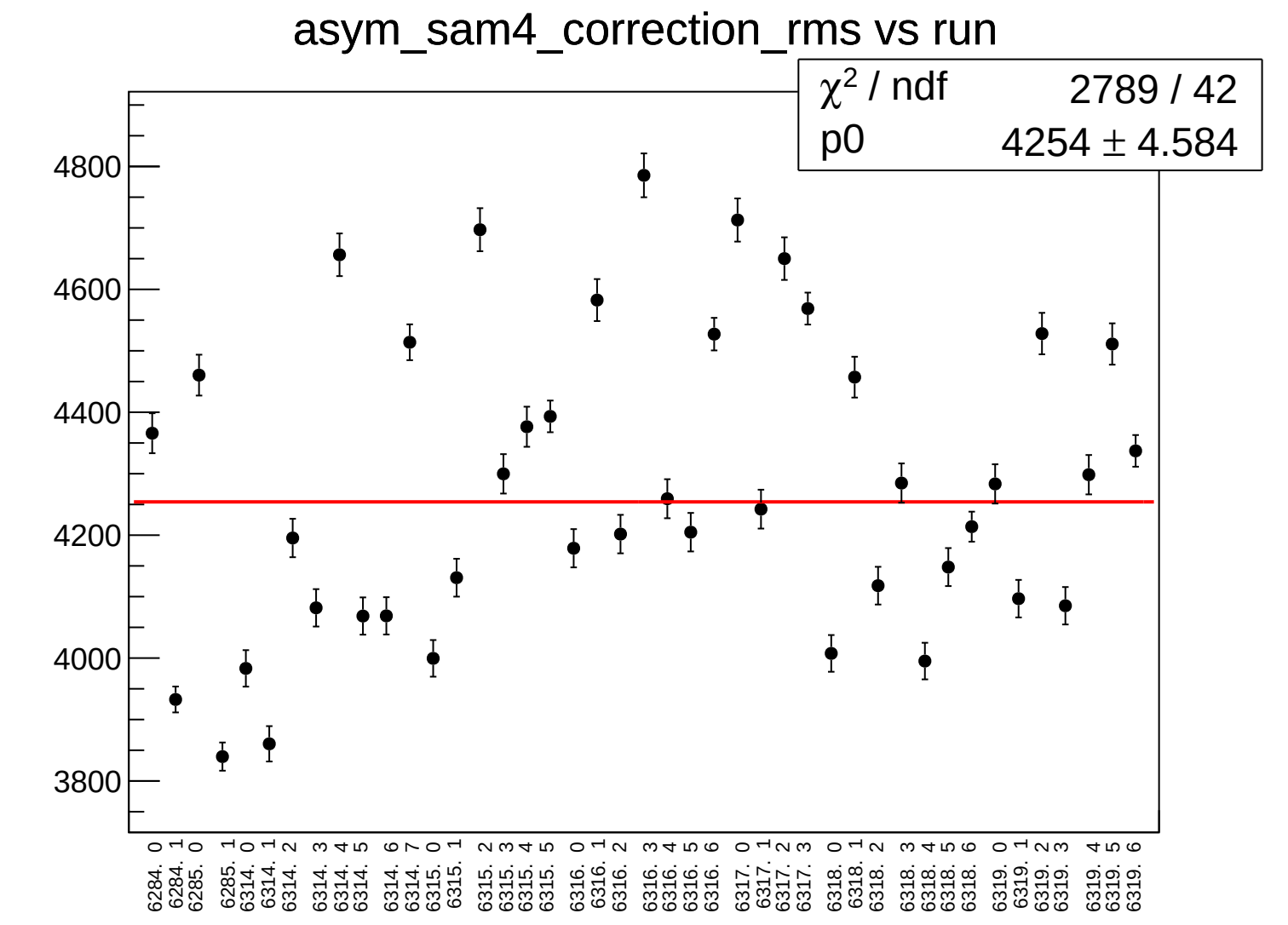

pull1D
Entries 43
Mean 0.02375
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

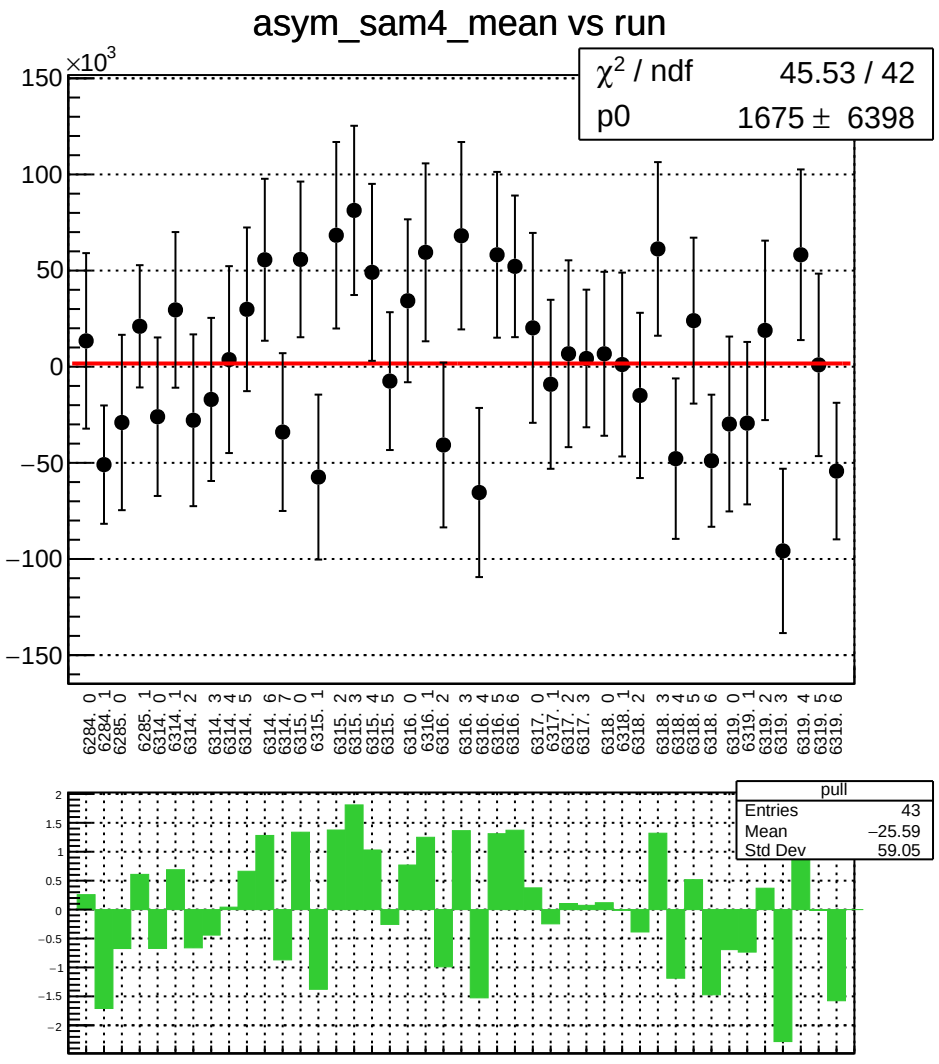

asym_sam3_rms vs run
χ² / ndf 3635 / 42
p0 2420 ± 2.609
2800
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

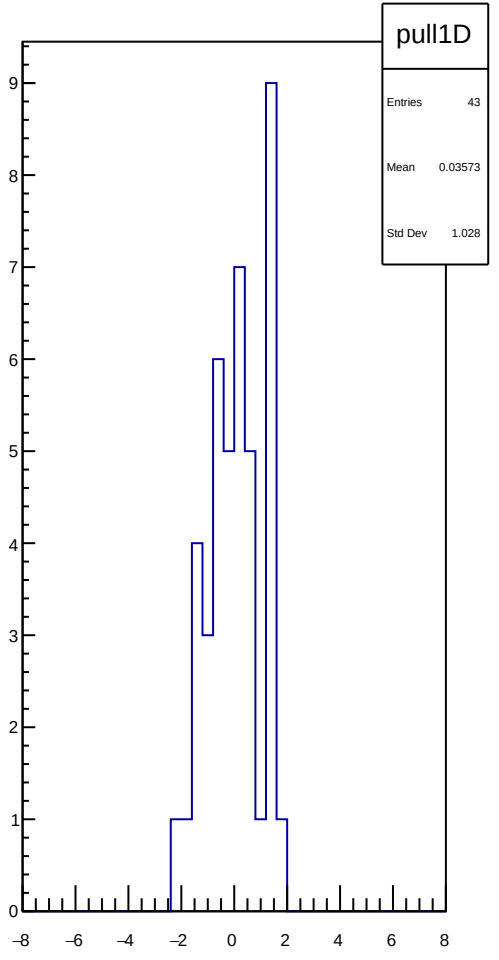

dit_asym_sam4_mean vs run
χ² / ndf 38.27 / 42
p0 −424.1 ± 504.7
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −2146
Std Dev 2168
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001245
Std Dev 0.9434
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

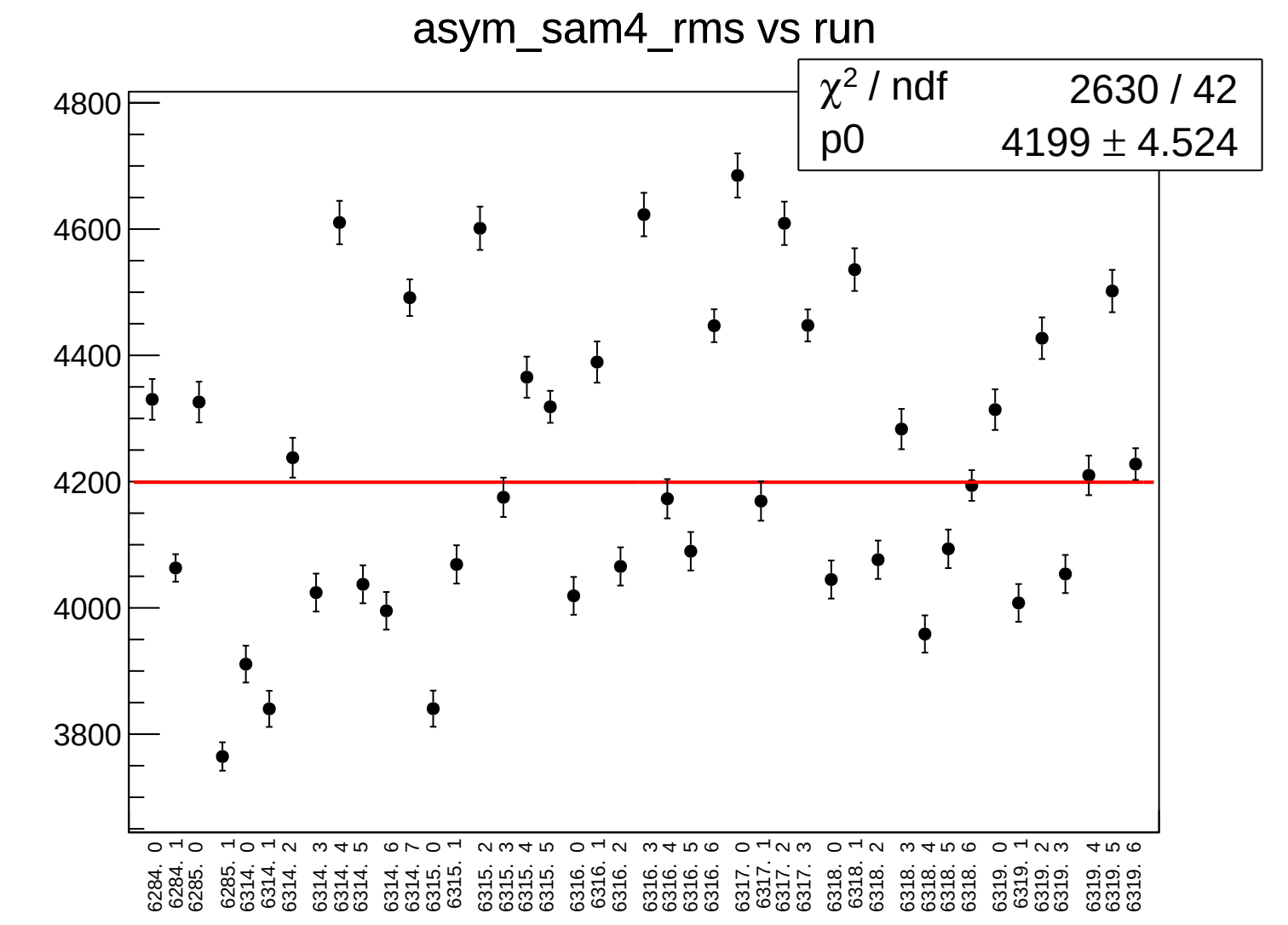

dit_asym_sam4_rms vs run
χ² / ndf 7938 / 42
p0 330.2 ± 0.3569
460
440
420
400
380
360
340
320
300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

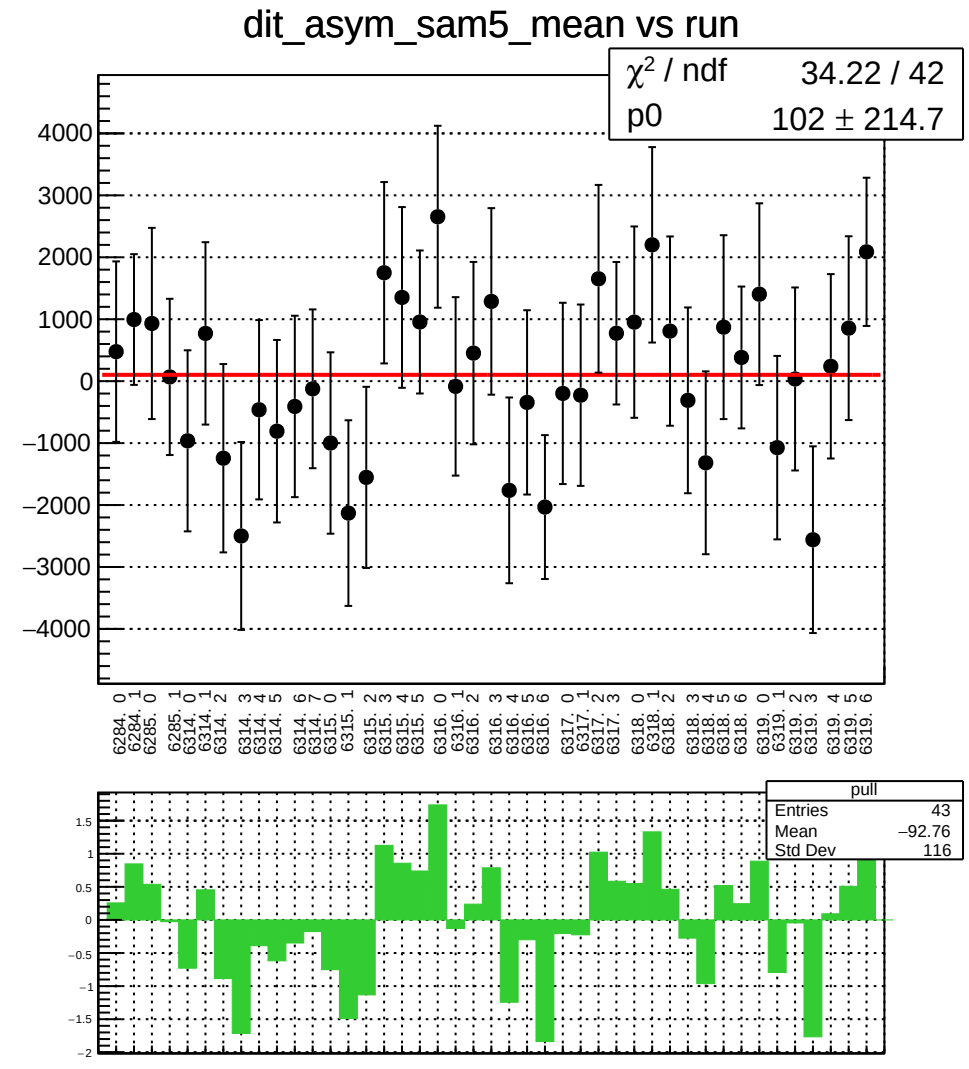

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 44.91 / 42
p0 −1525 ± 6483
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −21.22
Std Dev 53.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.04257
Std Dev 1.021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

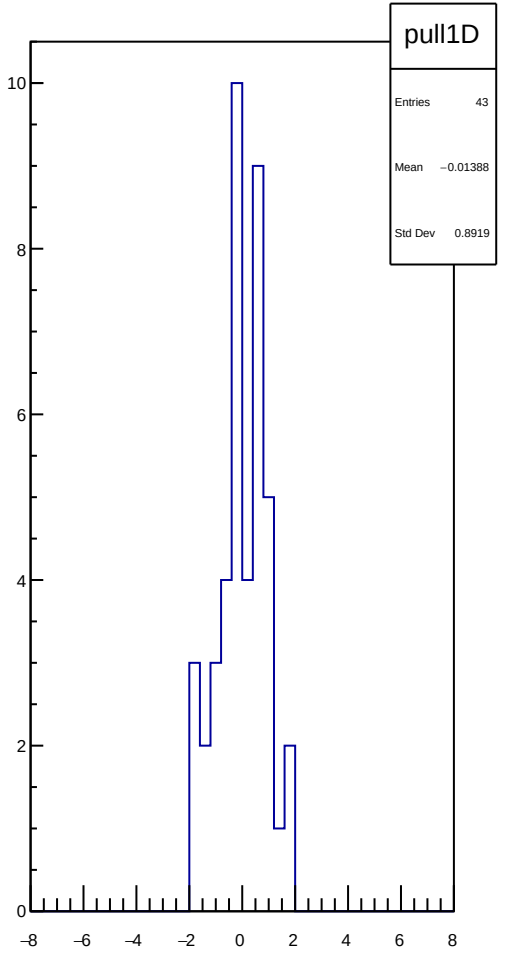

asym_sam4_correction_rms vs run
χ² / ndf 2789 / 42
p0 4254 ± 4.584
4800
4600
4400
4200
4000
3800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

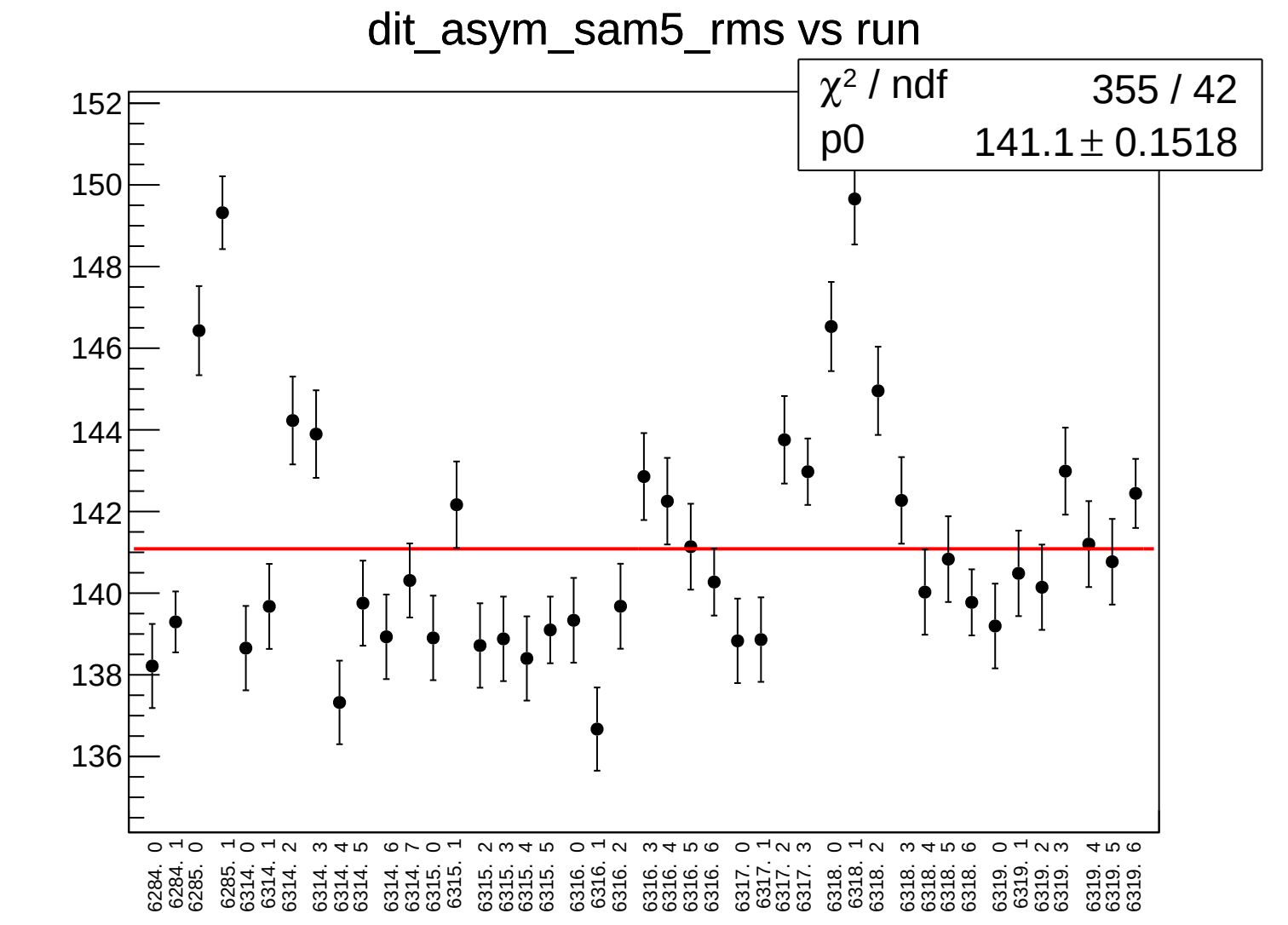

asym_sam4_mean vs run
×10^3
χ² / ndf 45.53 / 42
p0 1675 ± 6398
150
100
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −25.59
Std Dev 59.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

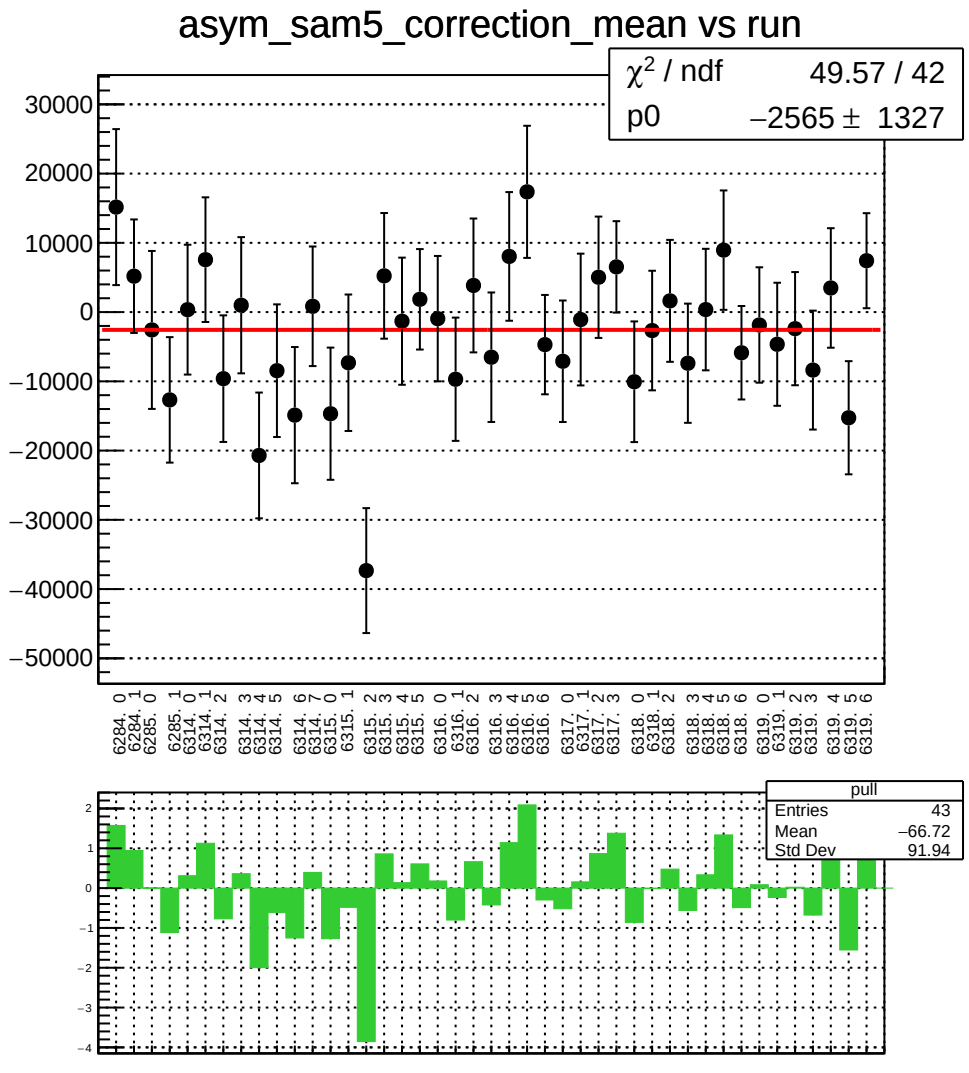

pull1D
Entries 43
Mean 0.03573
Std Dev 1.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

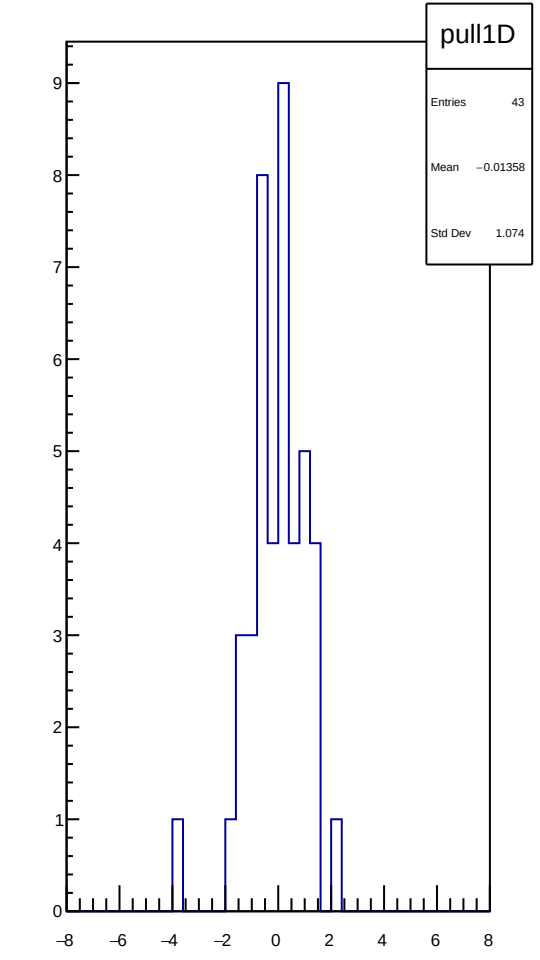

asym_sam4_rms vs run
χ² / ndf 2630 / 42
p0 4199 ± 4.524
4800
4600
4400
4200
4000
3800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

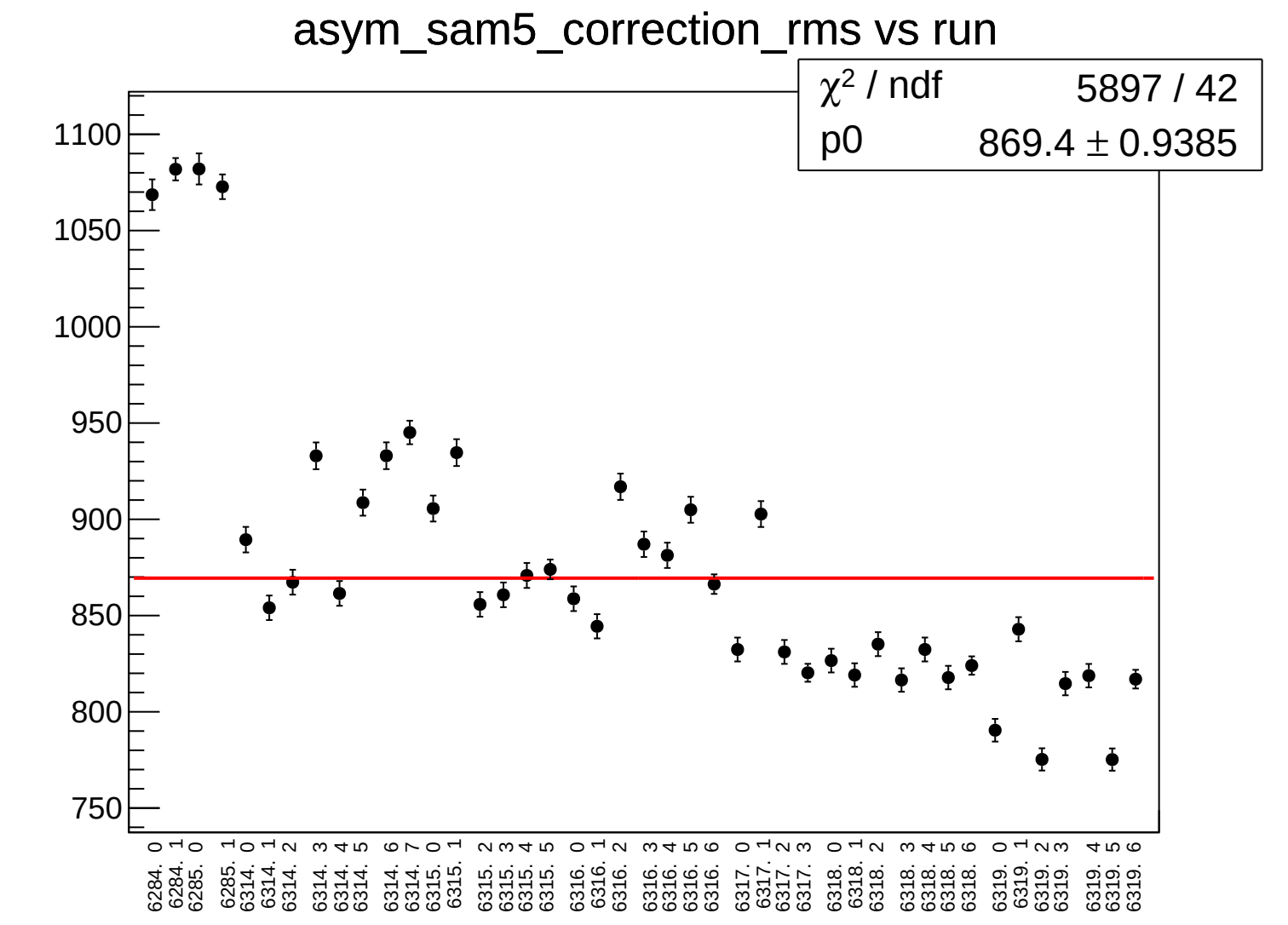

dit_asym_sam5_mean vs run
χ² / ndf 34.22 / 42
p0 102 ± 214.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −92.76
Std Dev 116
1.5
1
0.5
0
−0.5
−1
−1.5
−2

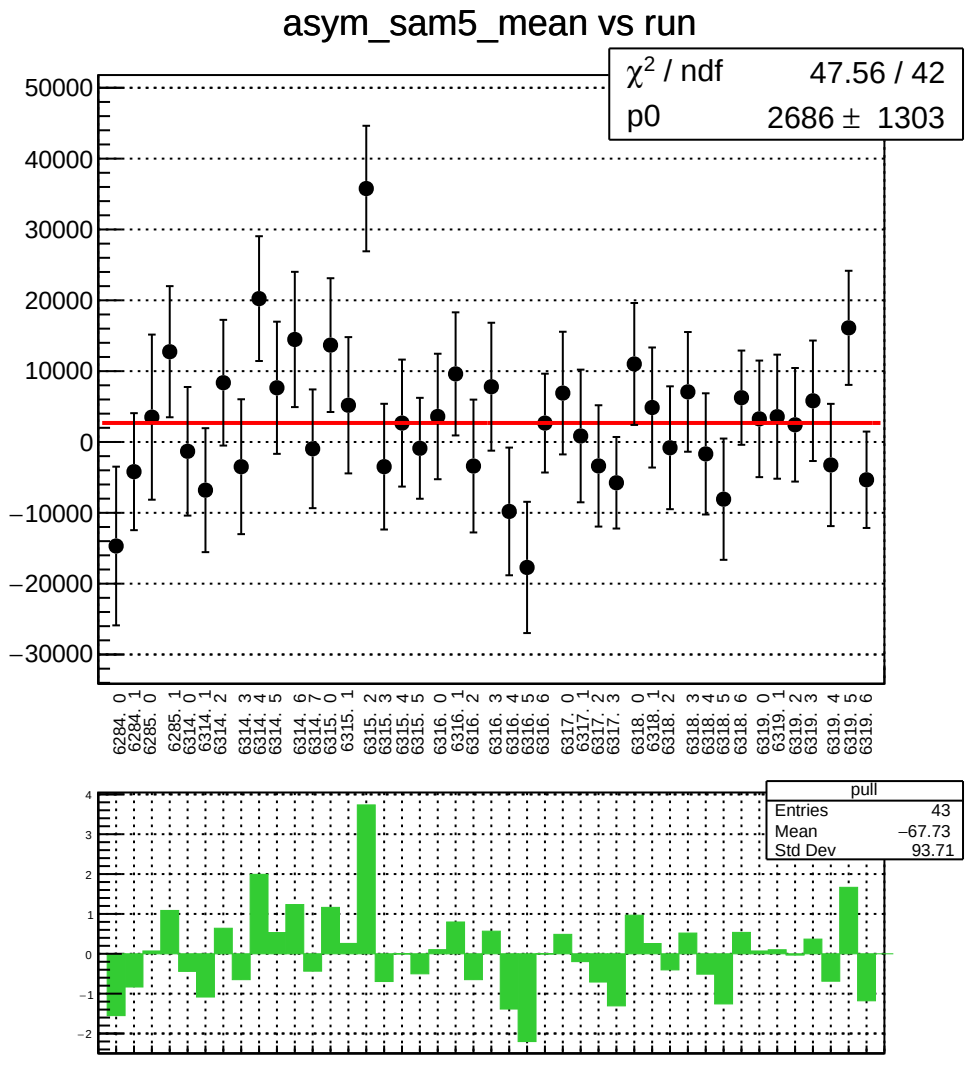

pull1D
Entries 43
Mean −0.01388
Std Dev 0.8919
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

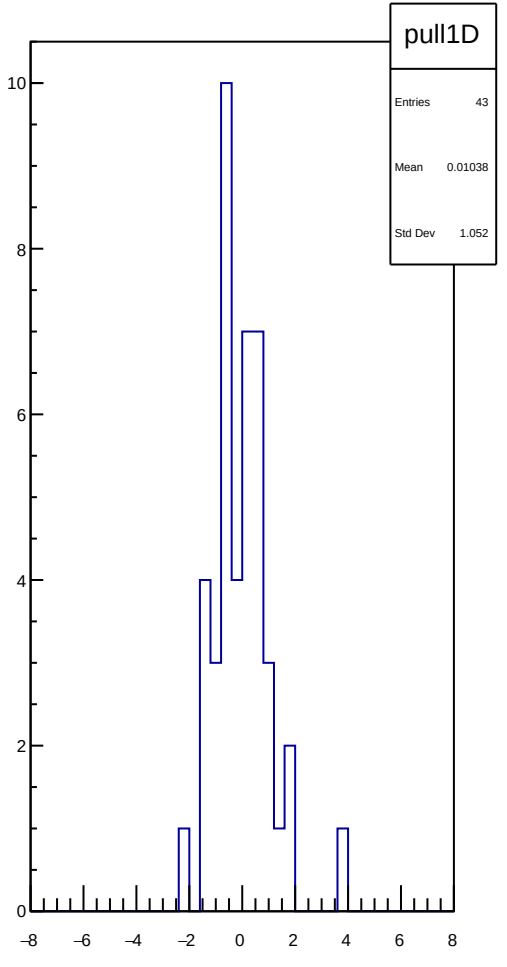

dit_asym_sam5_rms vs run
χ² / ndf 355 / 42
p0 141.1 ± 0.1518
152
150
148
146
144
142
140
138
136
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

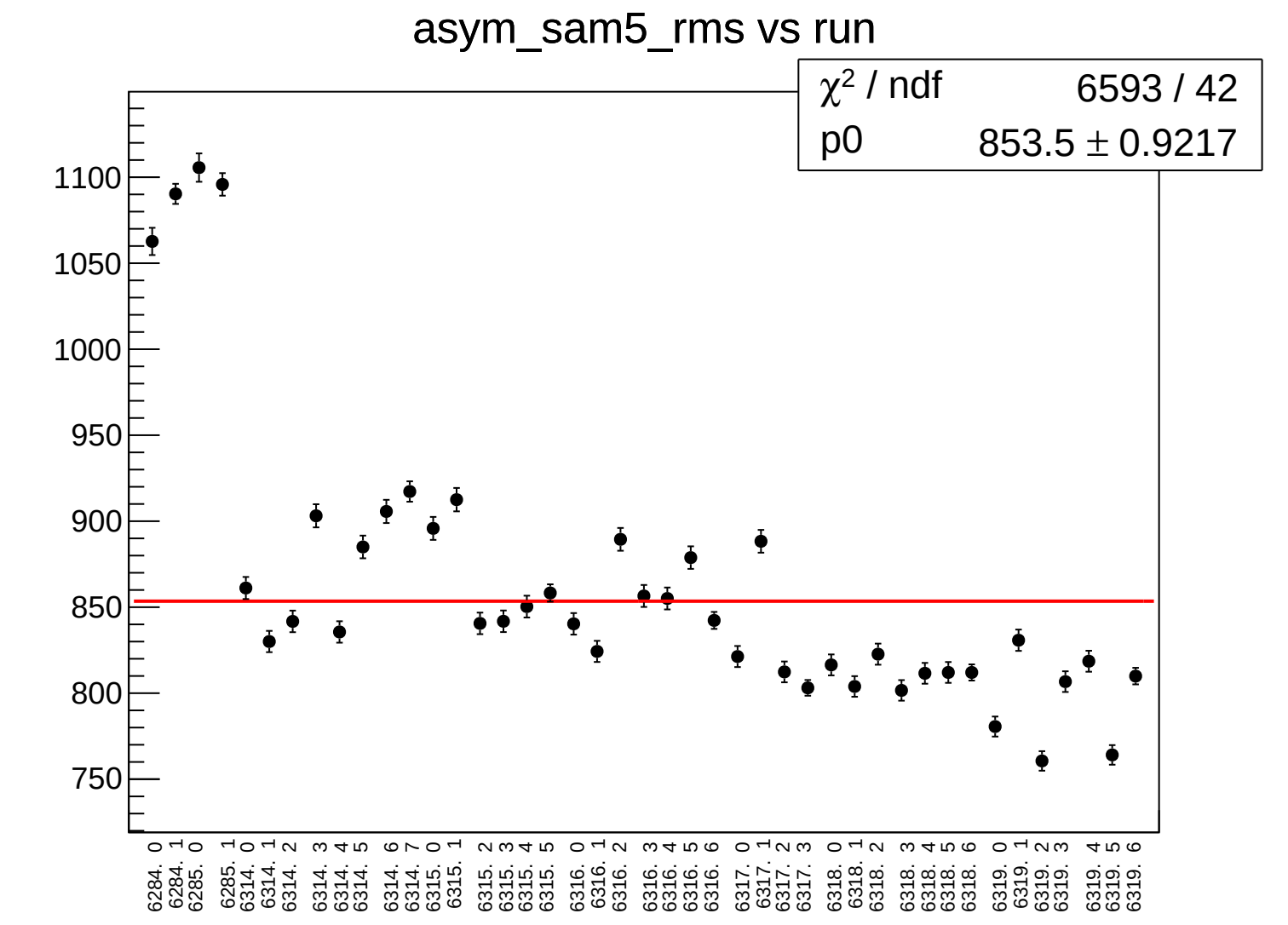

asym_sam5_correction_mean vs run
χ² / ndf 49.57 / 42
p0 −2565 ± 1327
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −66.72
Std Dev 91.94
2
1
0
−1
−2
−3
−4

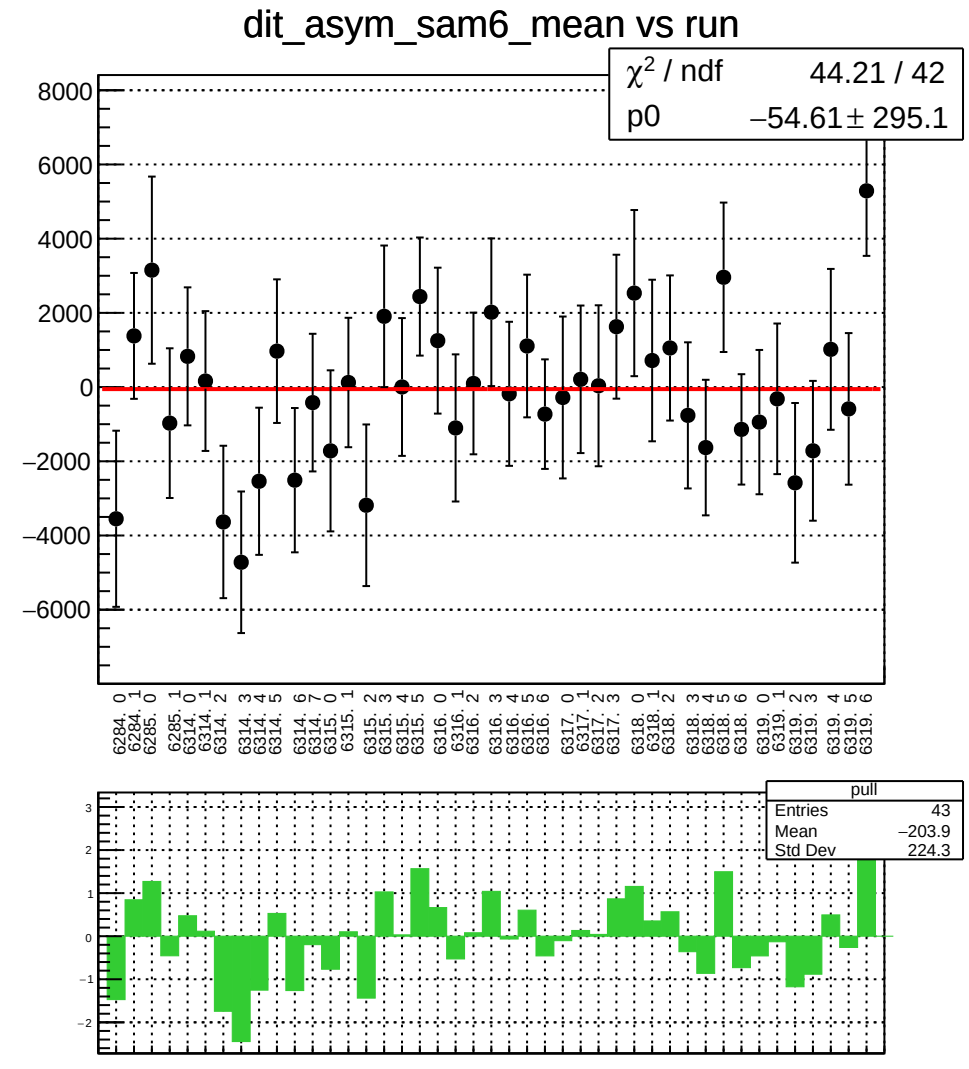

pull1D
Entries 43
Mean −0.01358
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

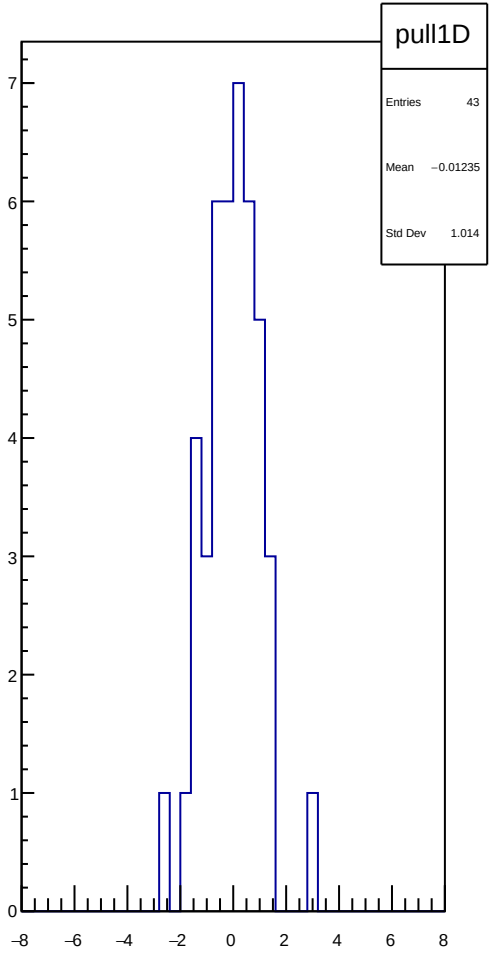

asym_sam5_correction_rms vs run
χ² / ndf 5897 / 42
p0 869.4 ± 0.9385
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

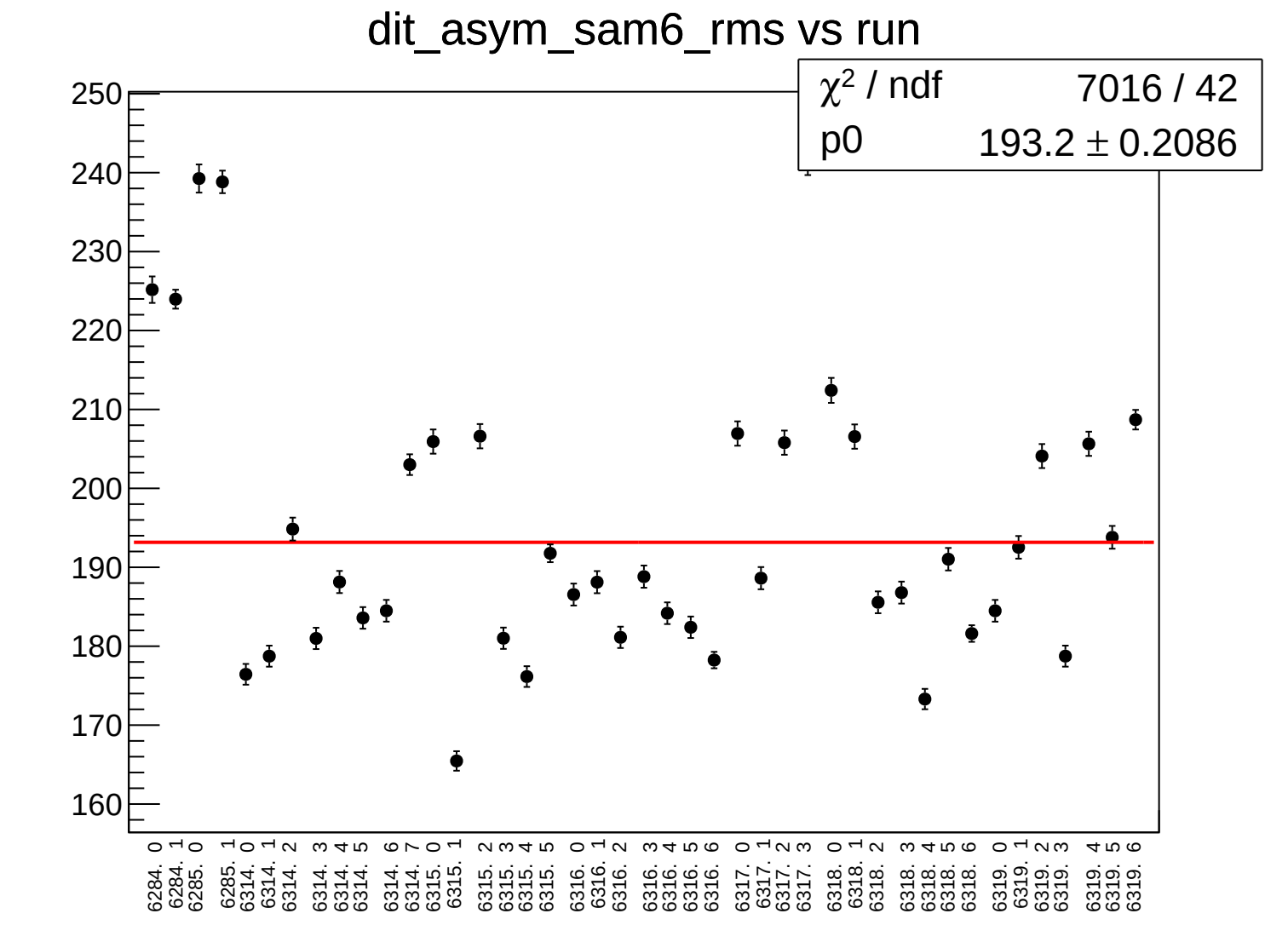

asym_sam5_mean vs run
χ² / ndf 47.56 / 42
p0 2686 ± 1303
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −67.73
Std Dev 93.71
4
3
2
1
0
−1
−2

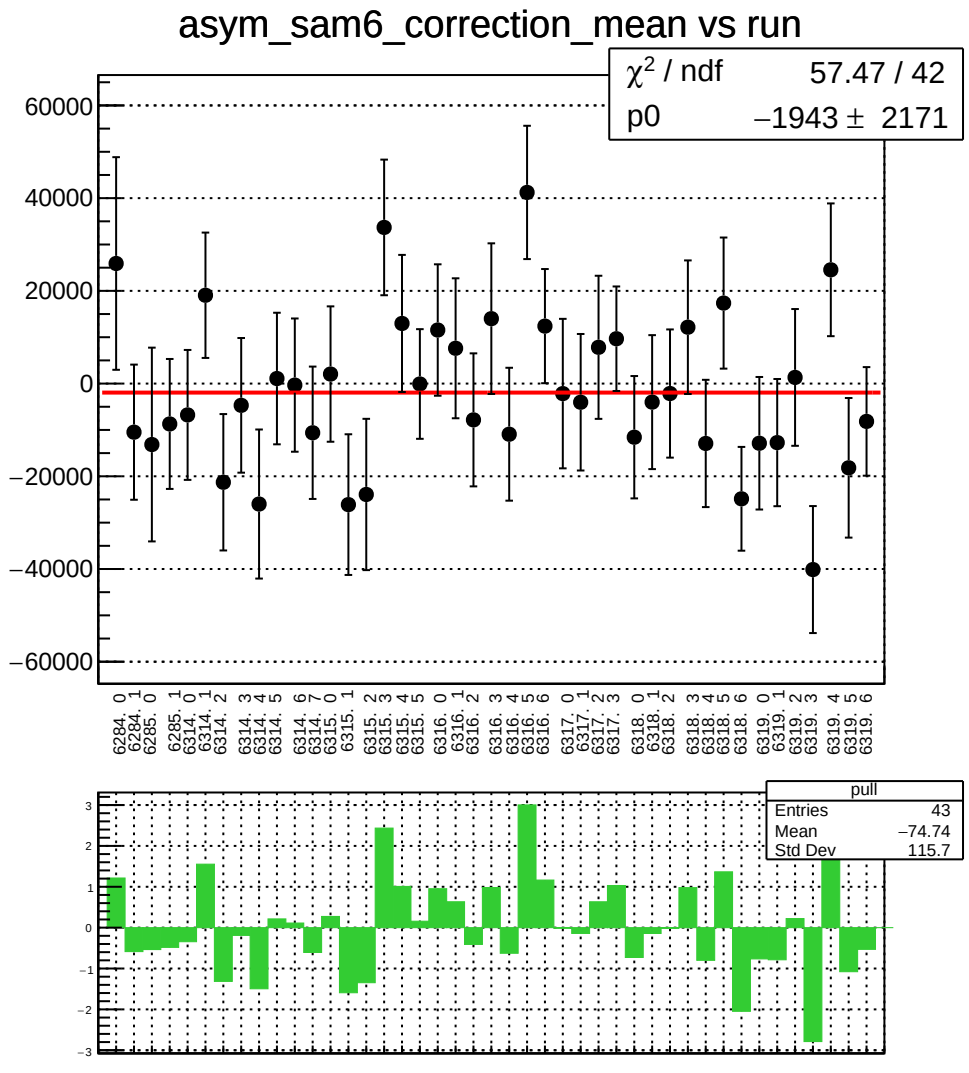

pull1D
Entries 43
Mean 0.01038
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

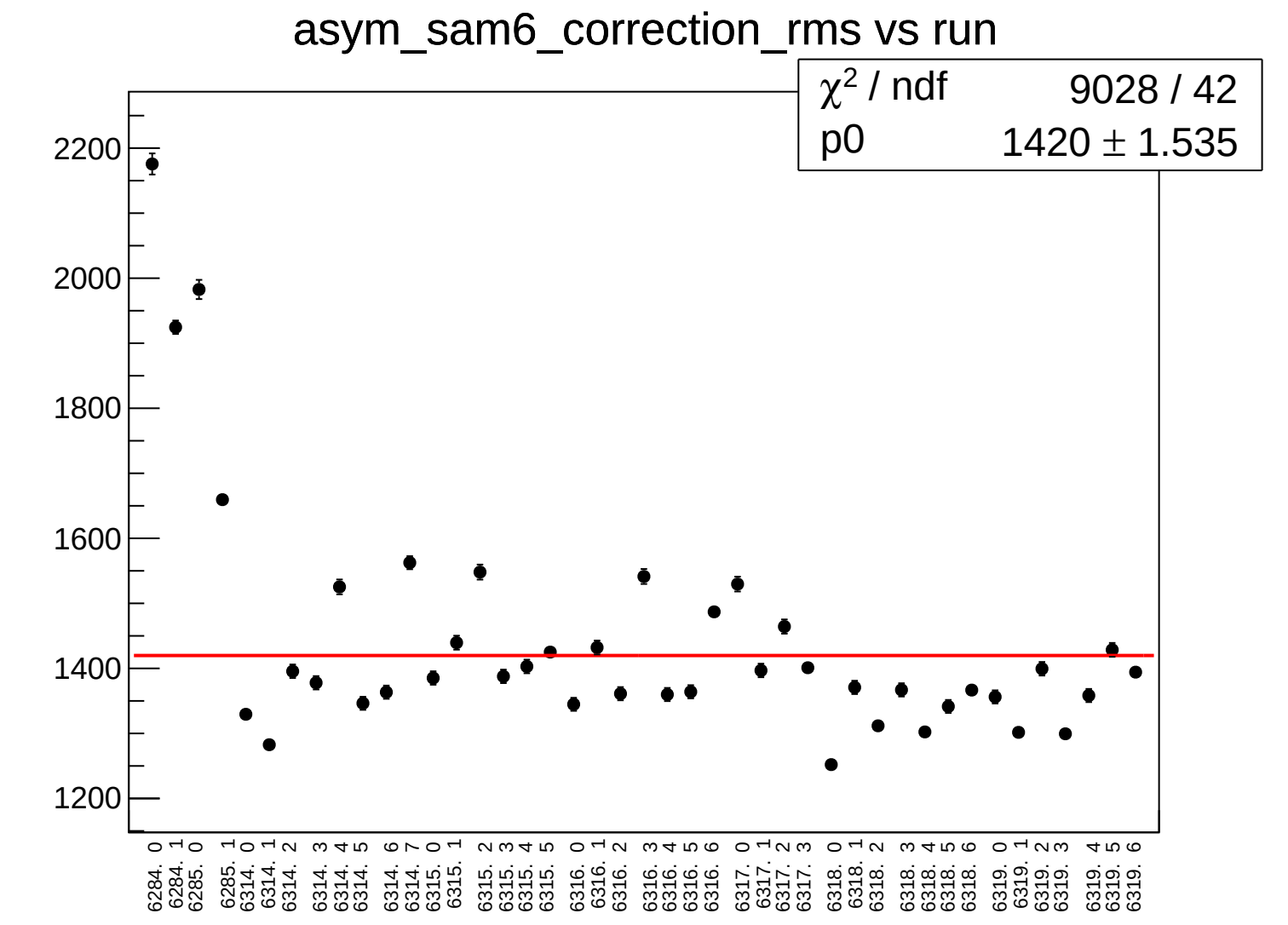

asym_sam5_rms vs run
χ² / ndf 6593 / 42
p0 853.5 ± 0.9217
1100
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

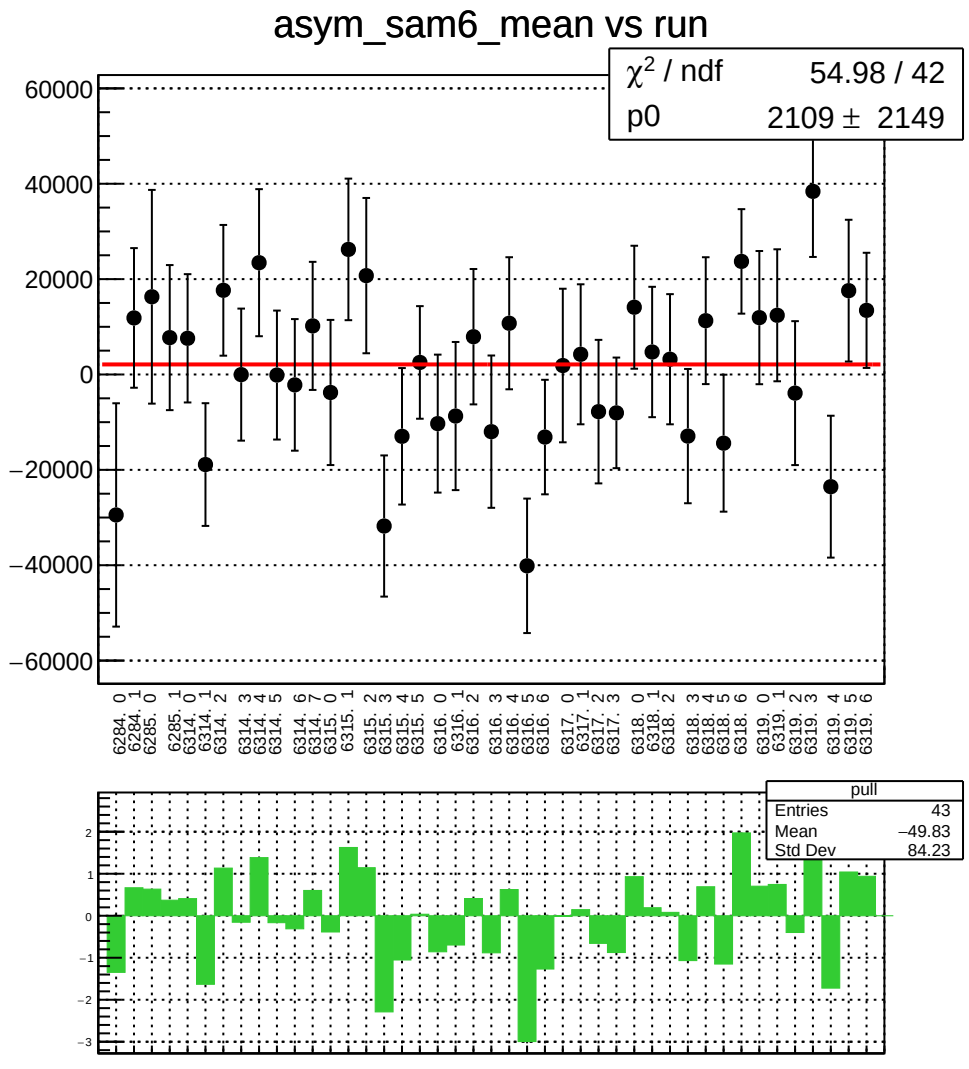

dit_asym_sam6_mean vs run
χ² / ndf 44.21 / 42
p0 −54.61 ± 295.1
8000
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −203.9
Std Dev 224.3
3
2
1
0
−1
−2

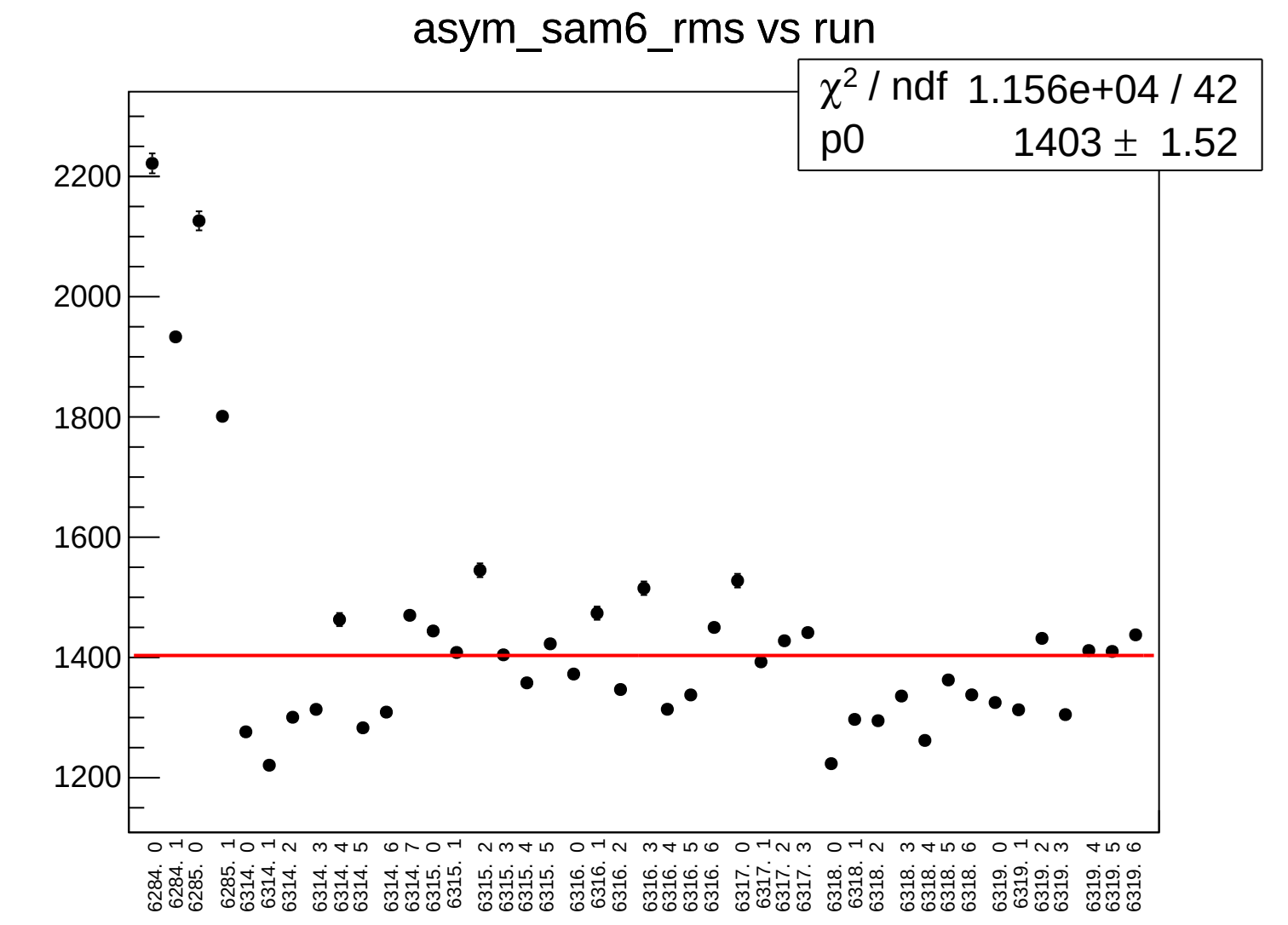

pull1D
Entries 43
Mean −0.01235
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

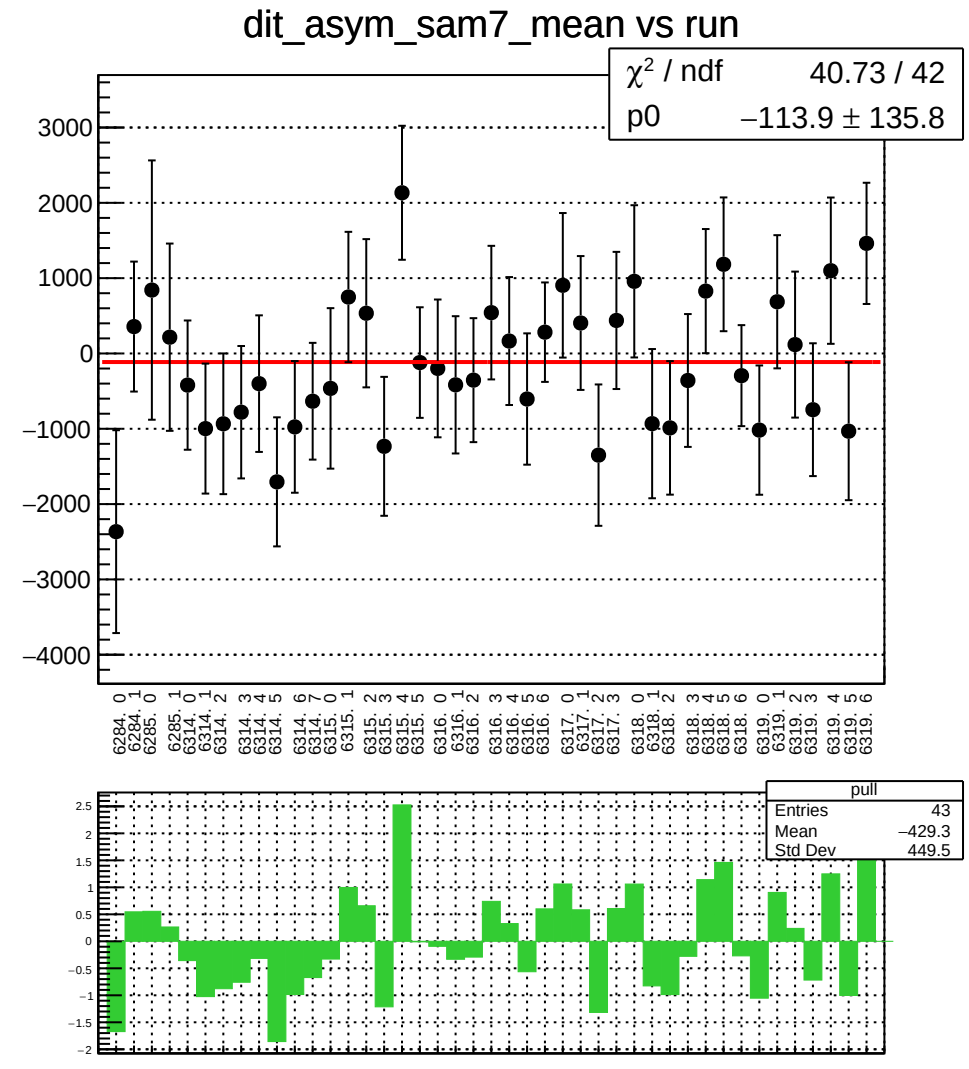

dit_asym_sam6_rms vs run
χ² / ndf 7016 / 42
p0 193.2 ± 0.2086
250
240
230
220
210
200
190
180
170
160
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

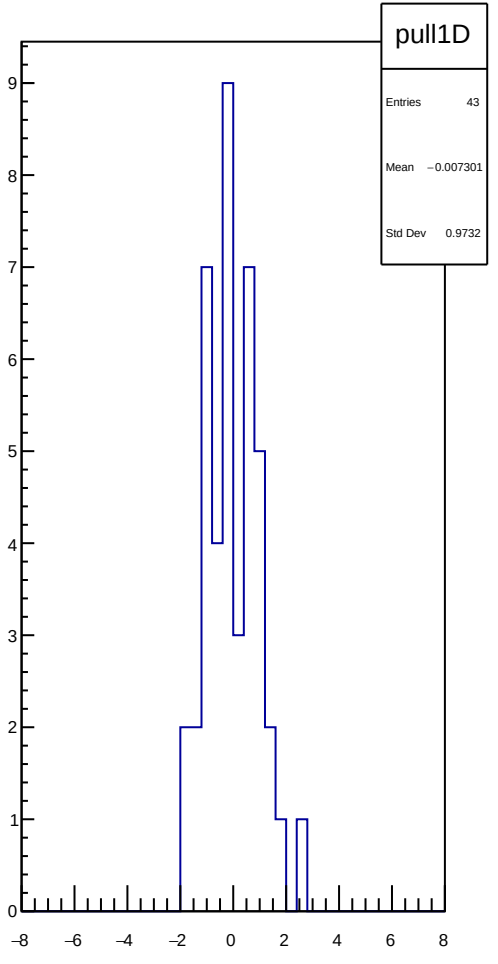

asym_sam6_correction_mean vs run
χ² / ndf 57.47 / 42
p0 −1943 ± 2171
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −74.74
Std Dev 115.7
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.009664
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

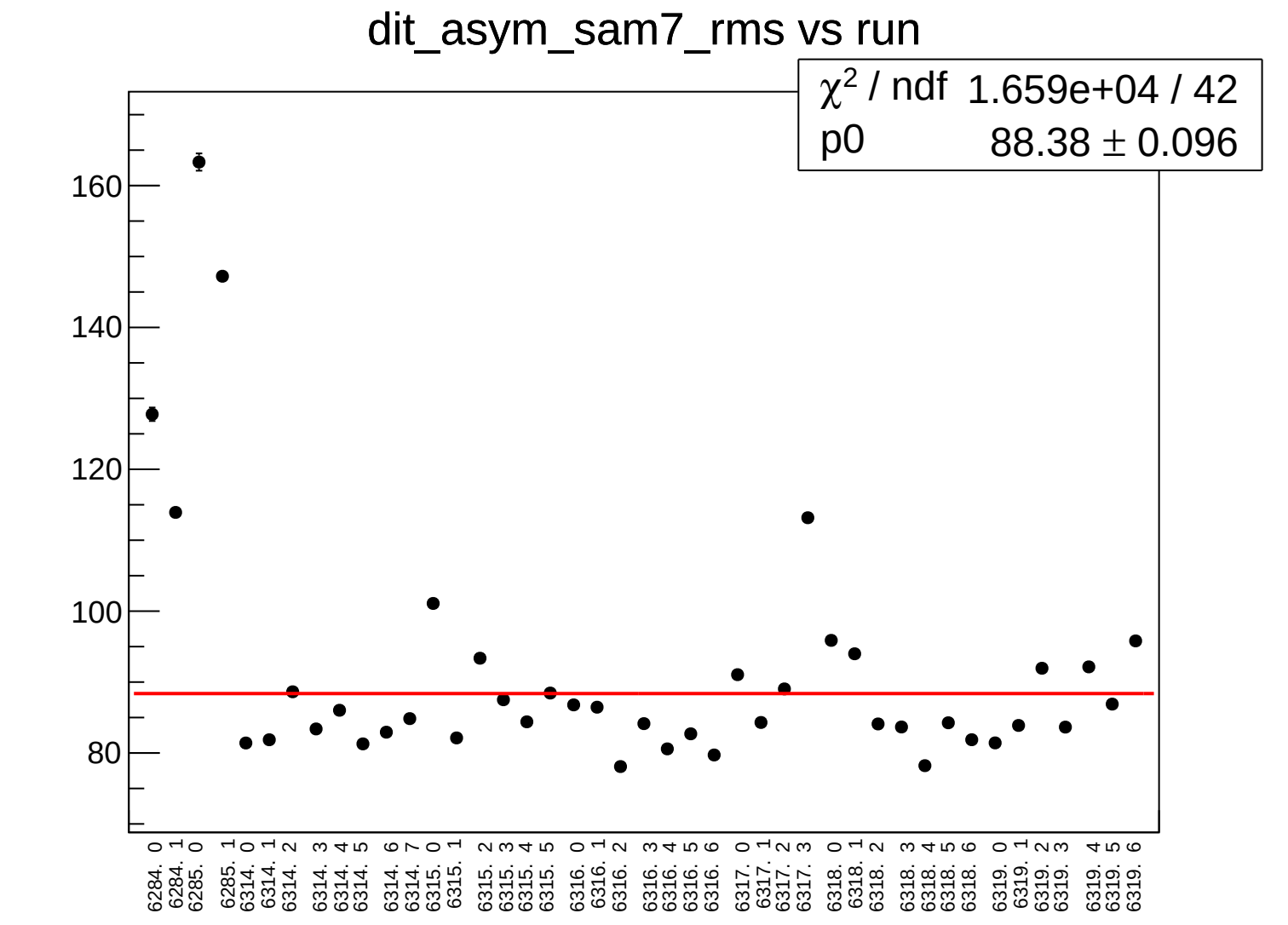

asym_sam6_correction_rms vs run
χ² / ndf 9028 / 42
p0 1420 ± 1.535
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

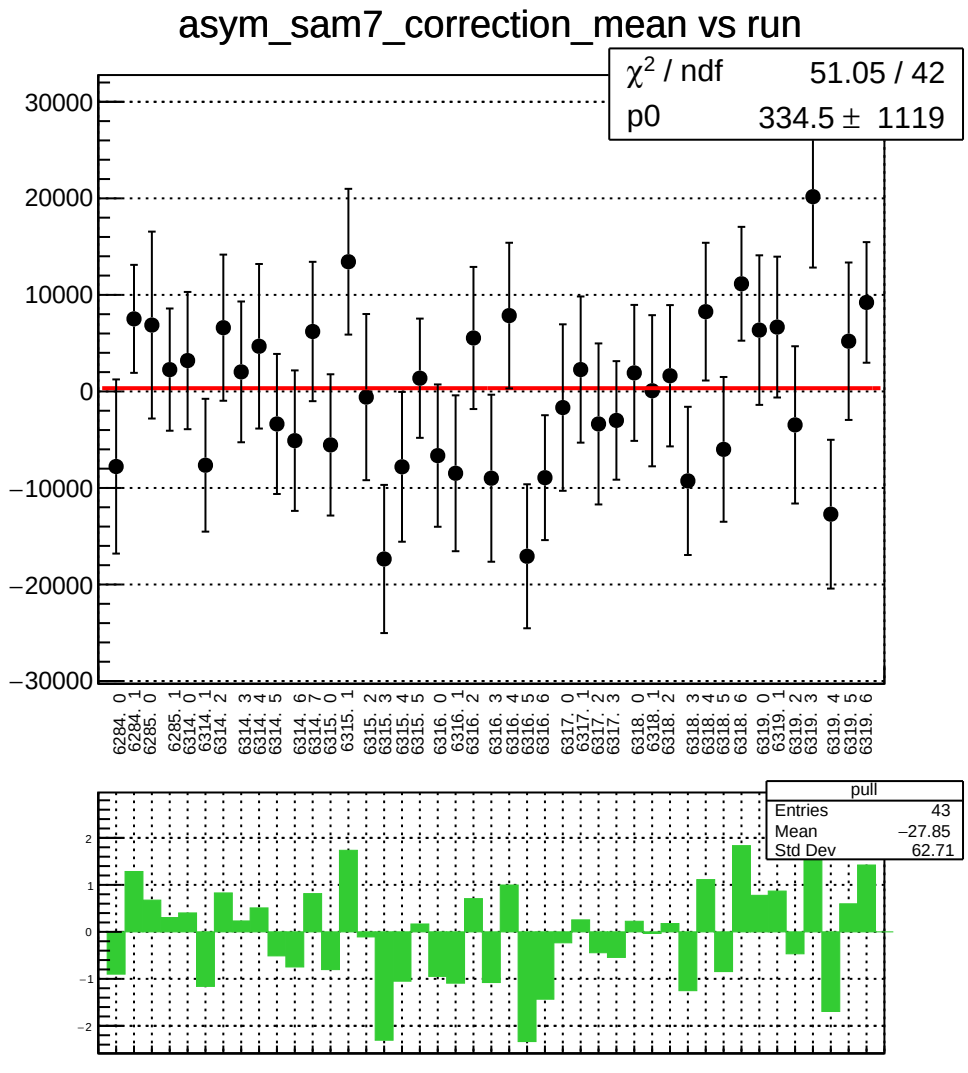

asym_sam6_mean vs run
χ² / ndf 54.98 / 42
p0 2109 ± 2149
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −49.83
Std Dev 84.23
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01906
Std Dev 1.131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

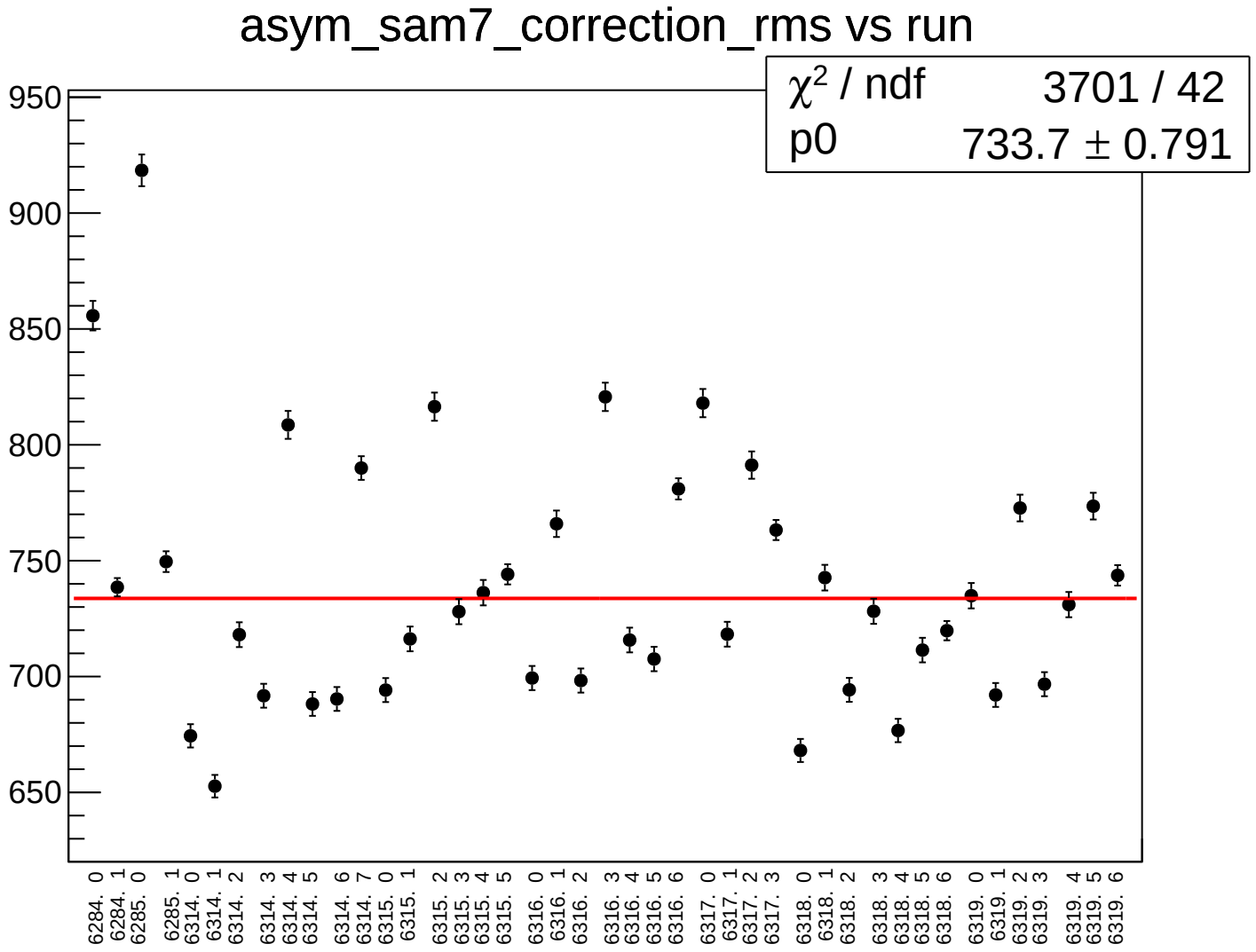

asym_sam6_rms vs run
χ² / ndf 1.156e+04 / 42
p0 1403 ± 1.52
2200
2000
1800
1600
1400
1200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

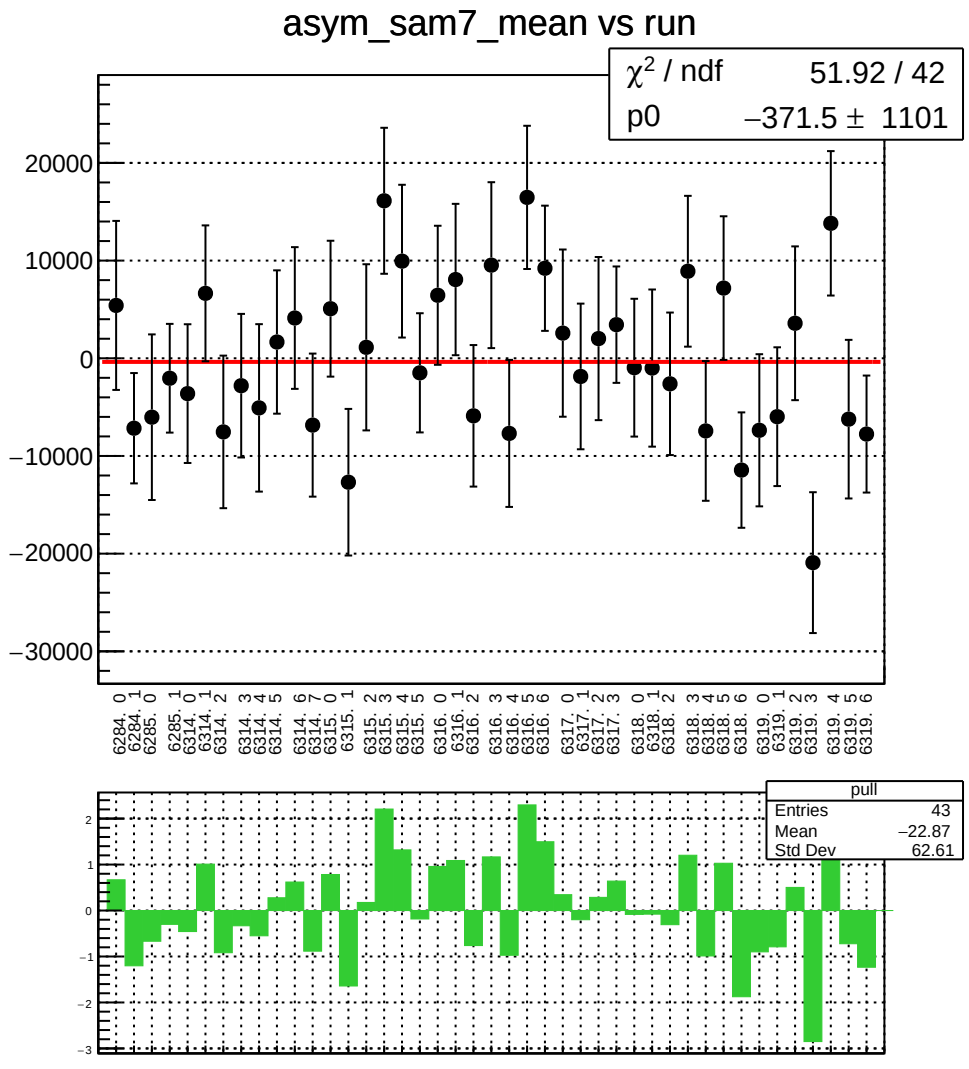

dit_asym_sam7_mean vs run
χ² / ndf 40.73 / 42
p0 −113.9 ± 135.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −429.3
Std Dev 449.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

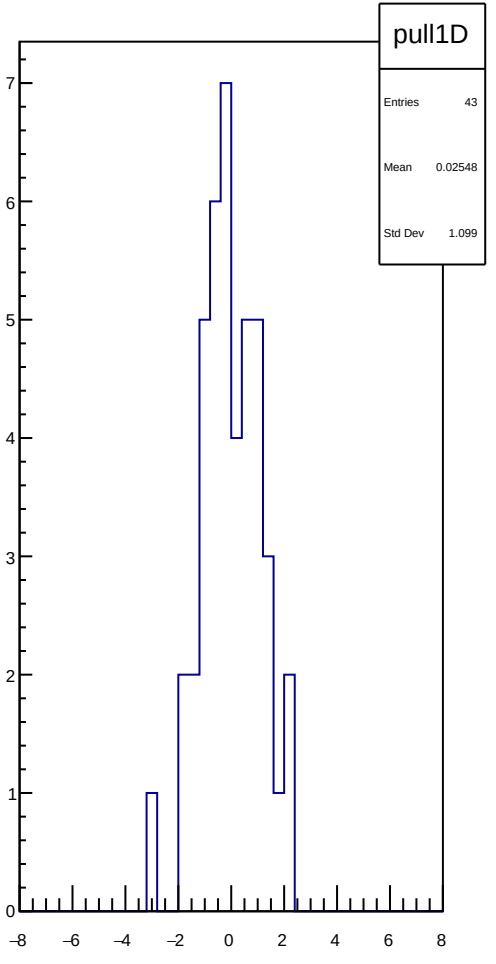

pull1D
Entries 43
Mean −0.007301
Std Dev 0.9732
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

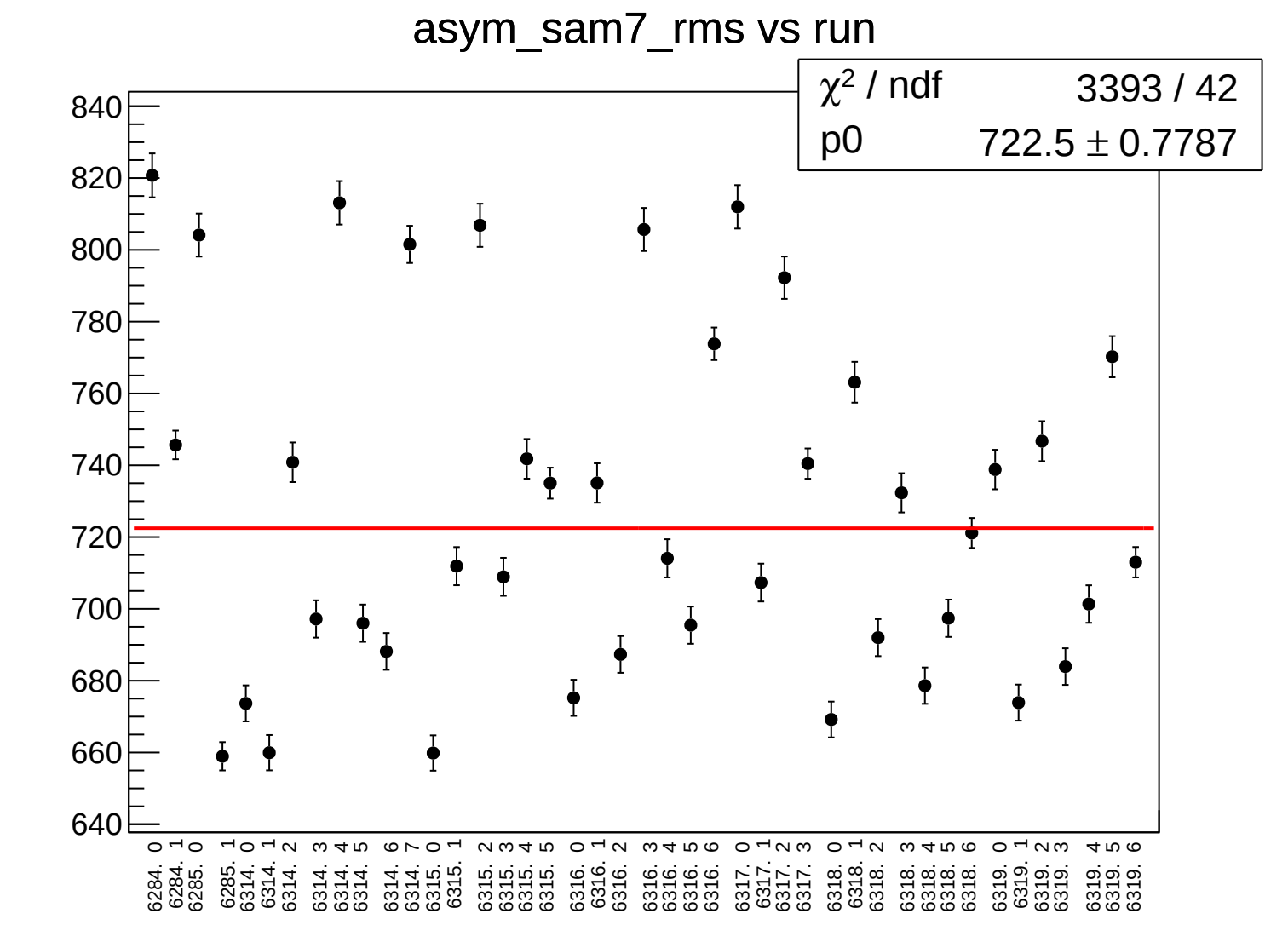

dit_asym_sam7_rms vs run
χ² / ndf 1.659e+04 / 42
p0 88.38 ± 0.096
160
140
120
100
80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

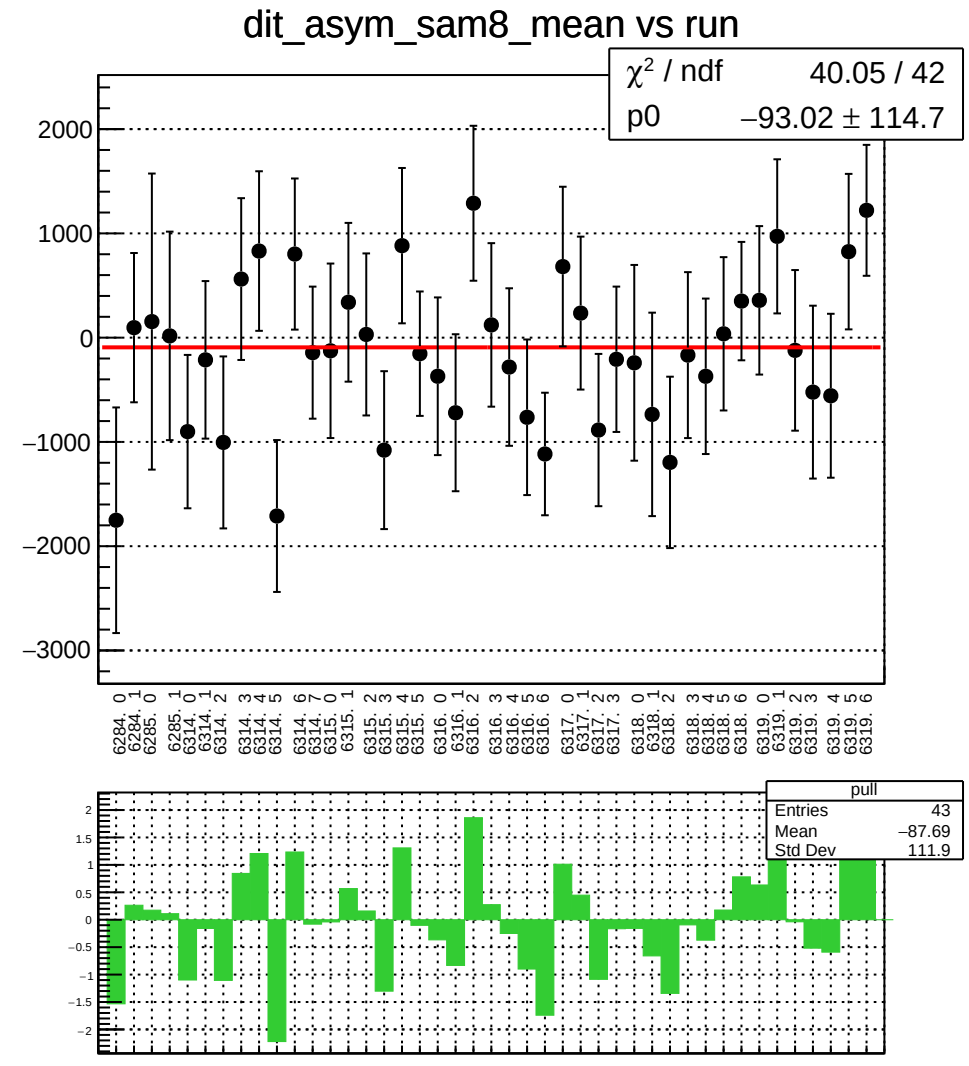

asym_sam7_correction_mean vs run
χ² / ndf 51.05 / 42
p0 334.5 ± 1119
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −27.85
Std Dev 62.71
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03141
Std Dev 1.089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

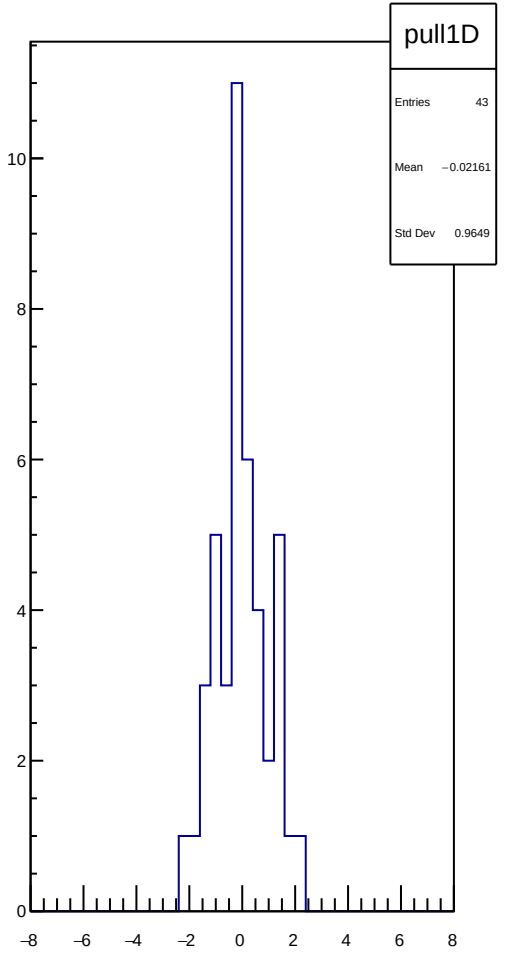

asym_sam7_correction_rms vs run
χ² / ndf 3701 / 42
p0 733.7 ± 0.791
950
900
850
800
750
700
650
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

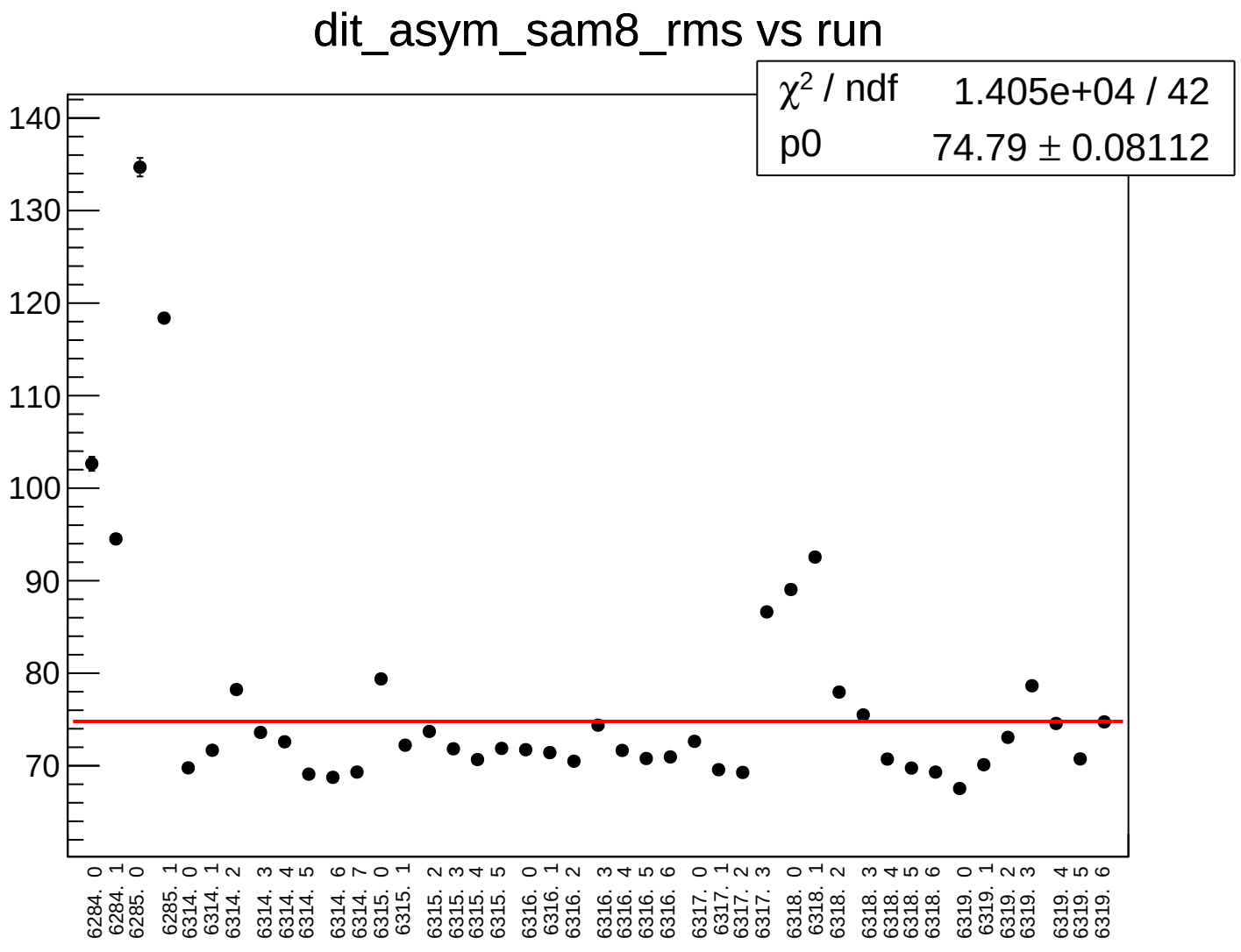

asym_sam7_mean vs run
χ² / ndf 51.92 / 42
p0 −371.5 ± 1101
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −22.87
Std Dev 62.61
2
1
0
−1
−2
−3

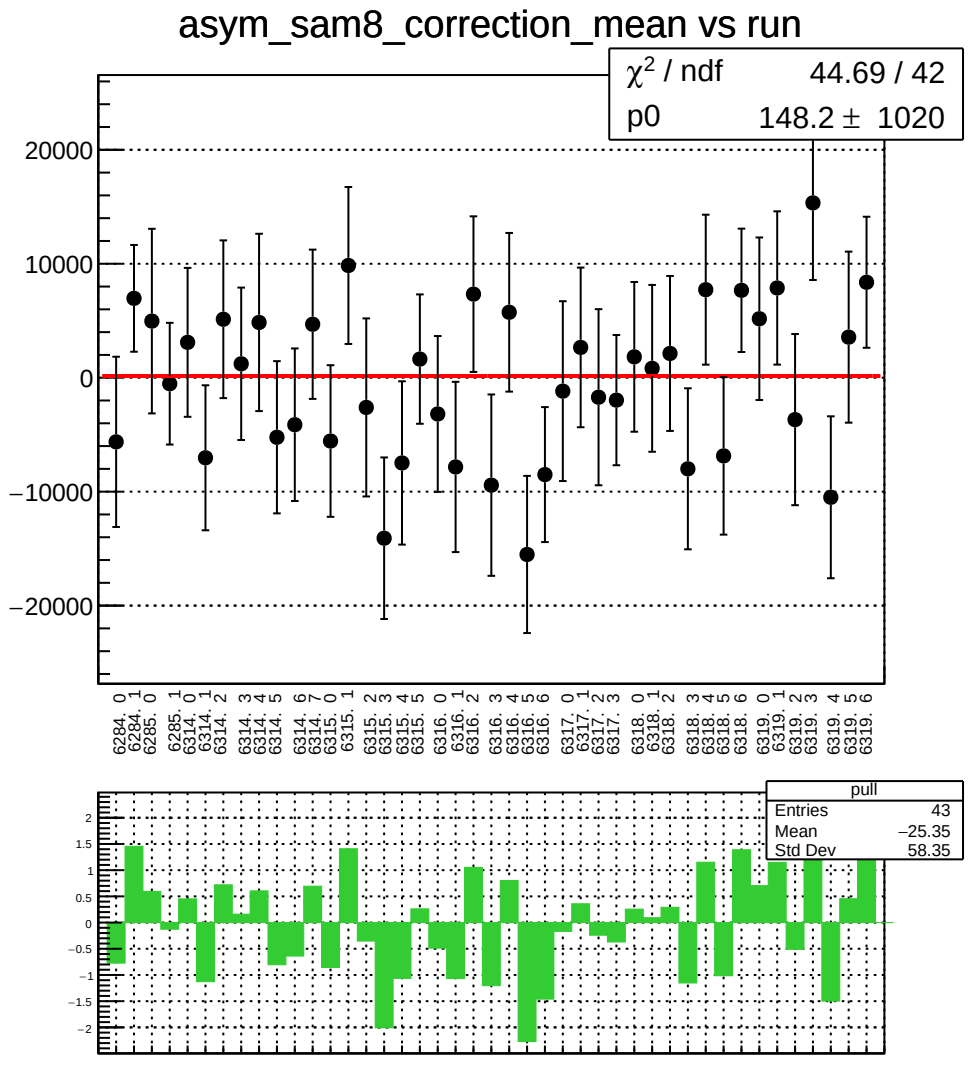

pull1D
Entries 43
Mean 0.02548
Std Dev 1.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

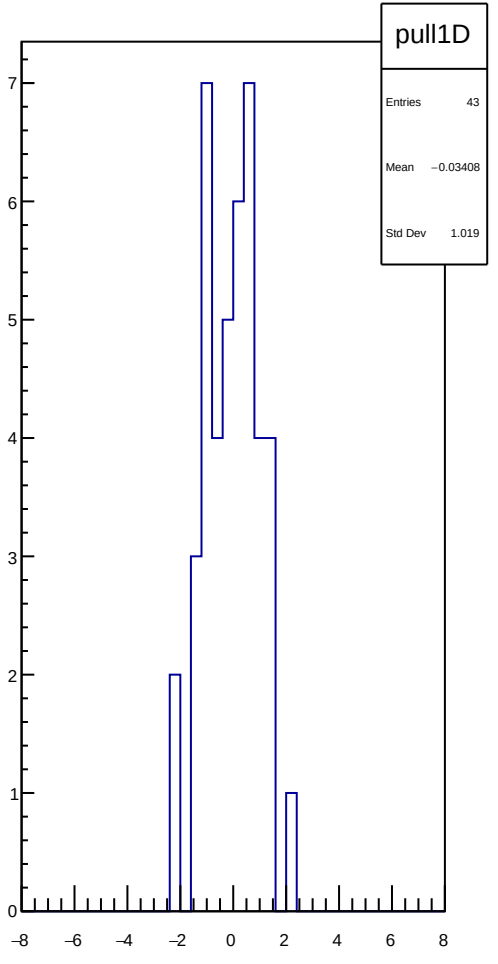

asym_sam7_rms vs run
χ² / ndf 3393 / 42
p0 722.5 ± 0.7787
840
820
800
780
760
740
720
700
680
660
640
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

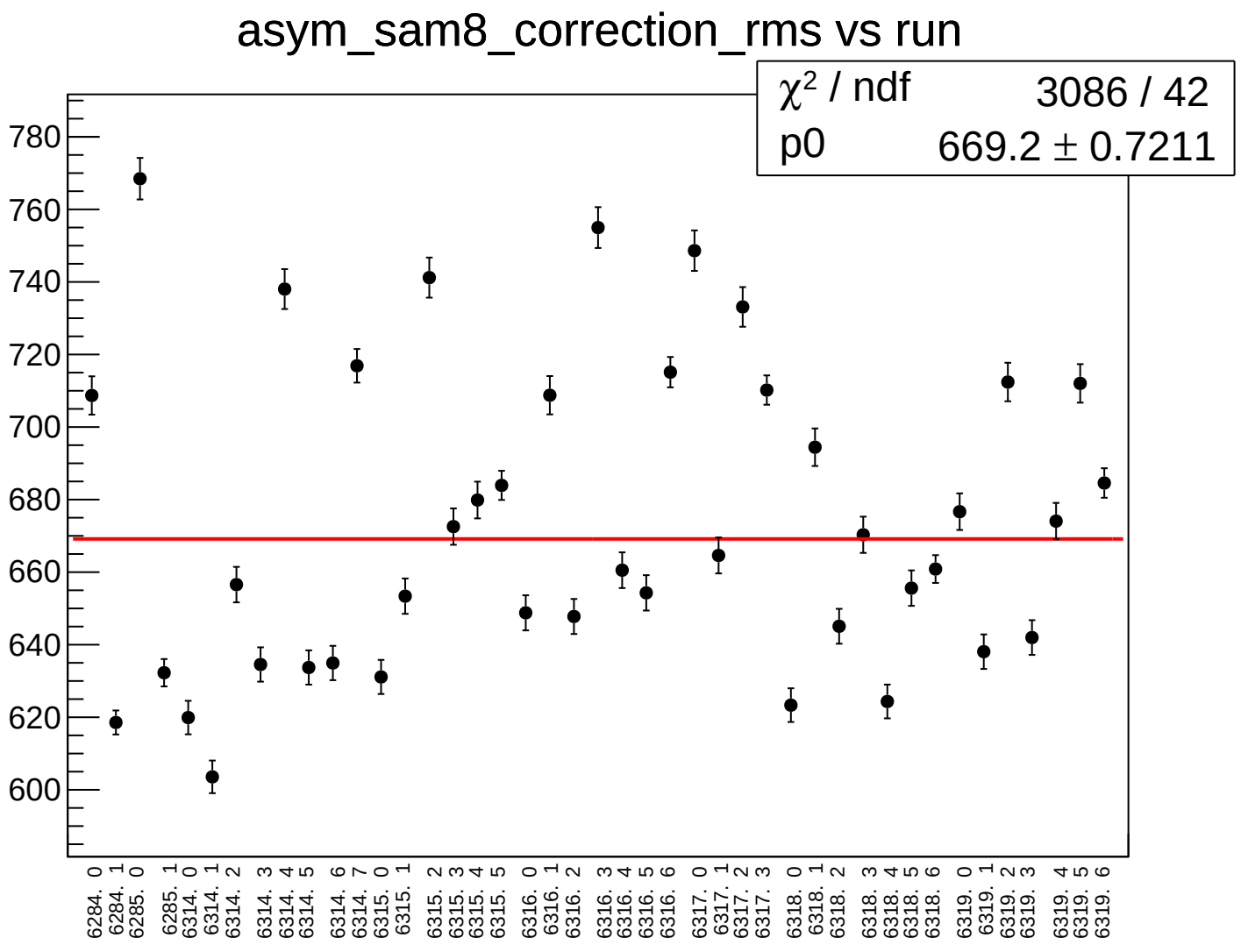

dit_asym_sam8_mean vs run
χ² / ndf 40.05 / 42
p0 −93.02 ± 114.7
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −87.69
Std Dev 111.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

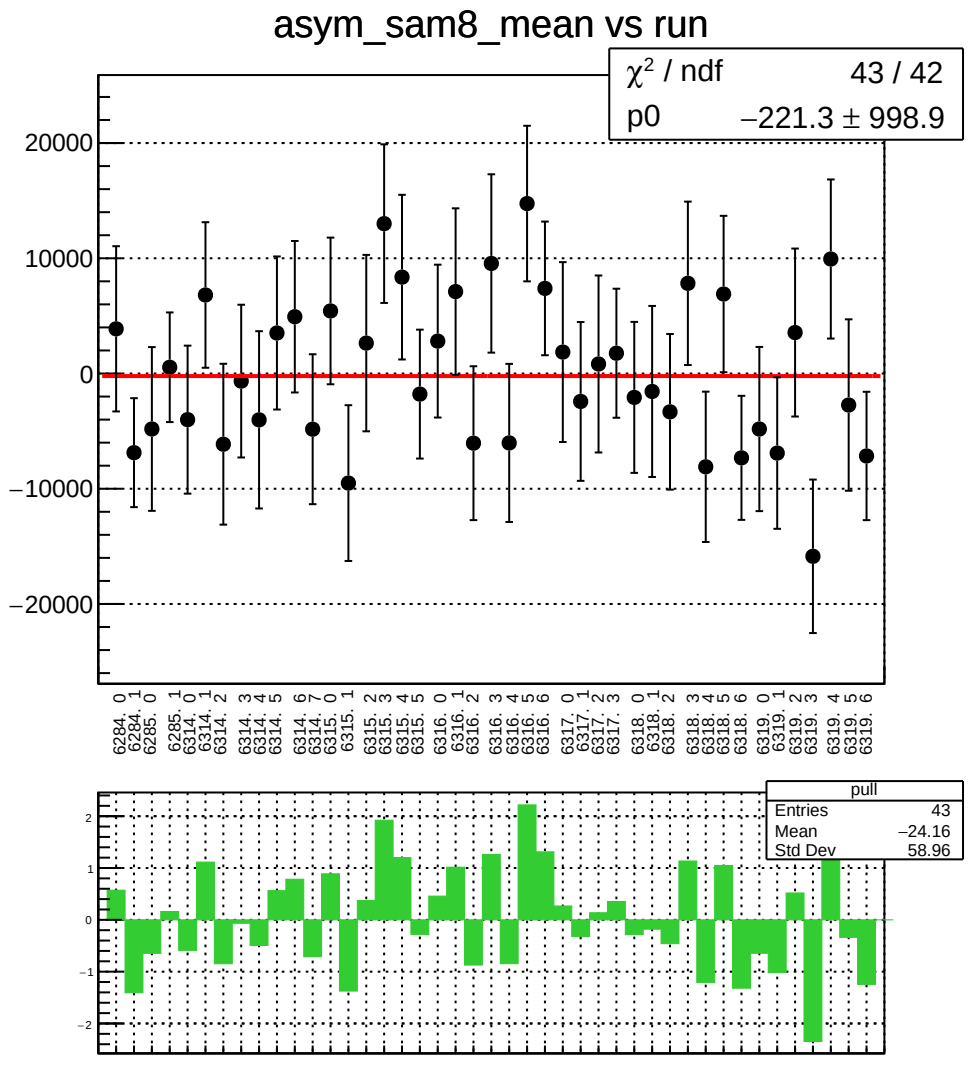

pull1D
Entries 43
Mean −0.02161
Std Dev 0.9649
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

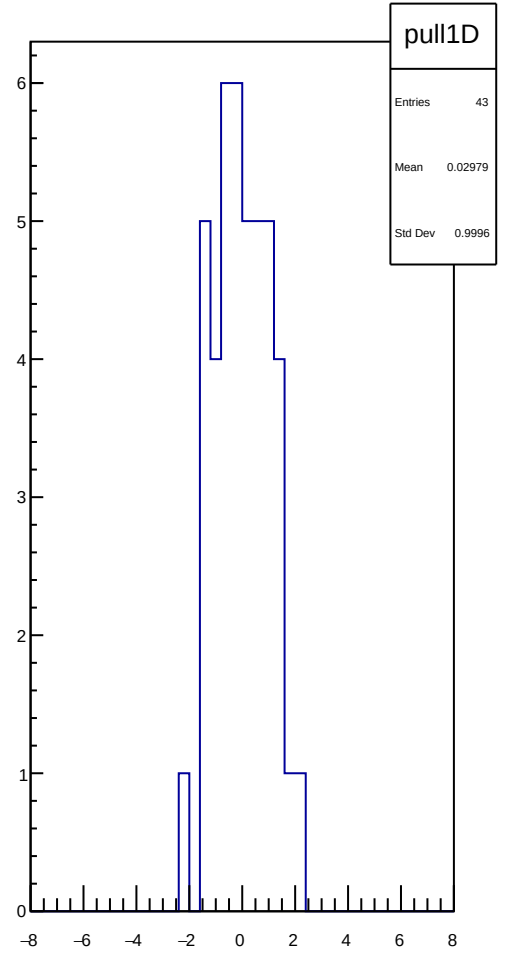

dit_asym_sam8_rms vs run
χ^2 / ndf 1.405e+04 / 42
p0 74.79 ± 0.08112
140
130
120
110
100
90
80
70
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

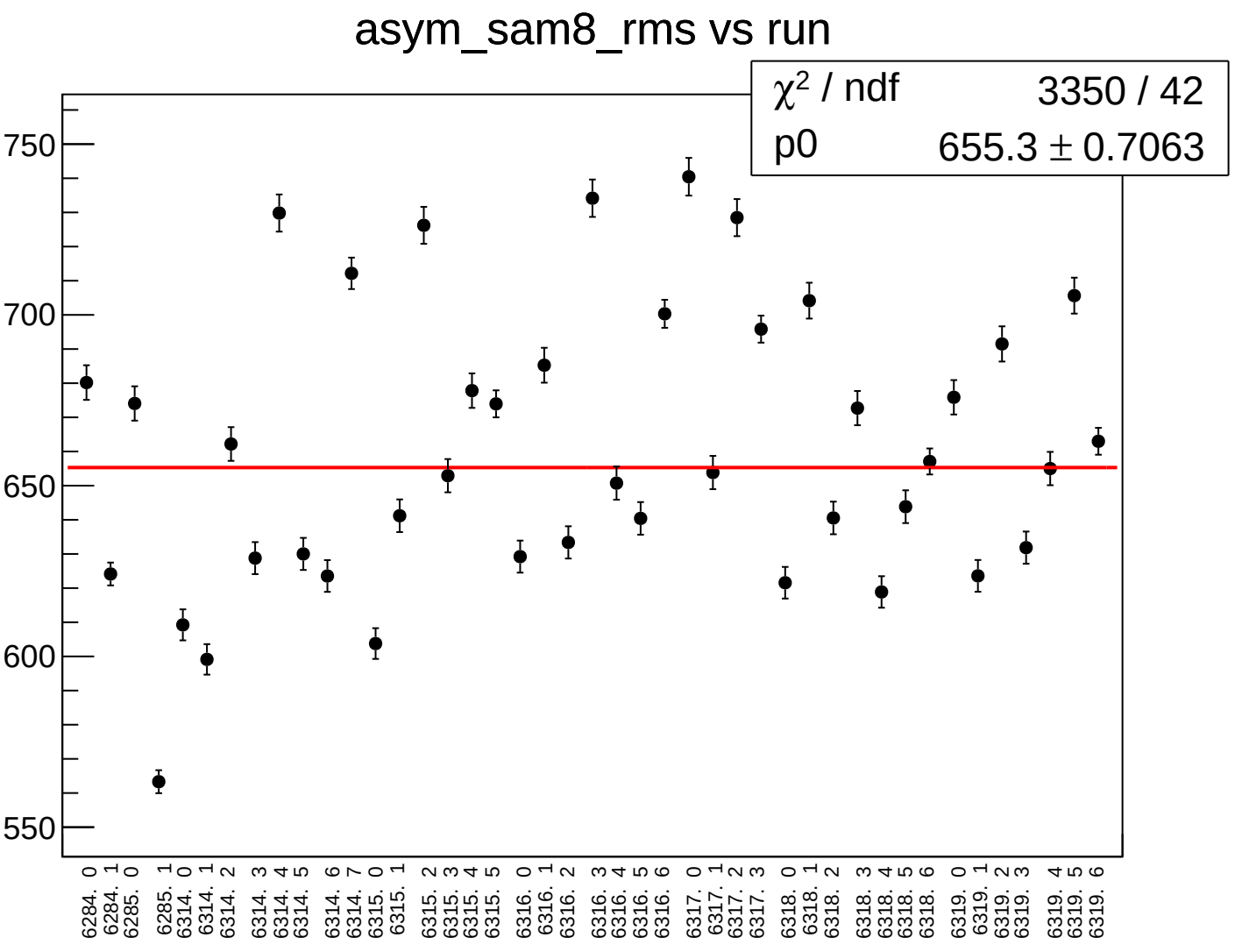

asym_sam8_correction_mean vs run
χ² / ndf 44.69 / 42
p0 148.2 ± 1020
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −25.35
Std Dev 58.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

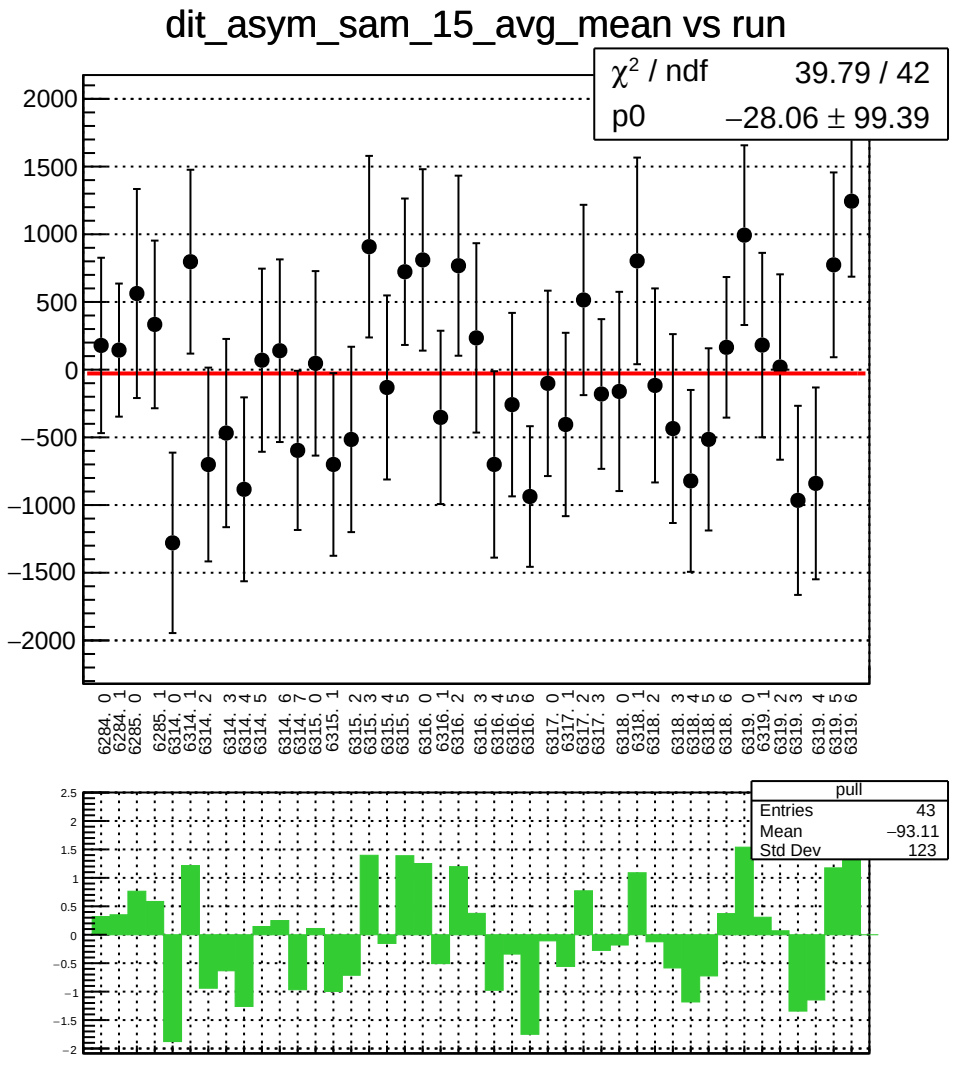

pull1D
Entries 43
Mean −0.03408
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

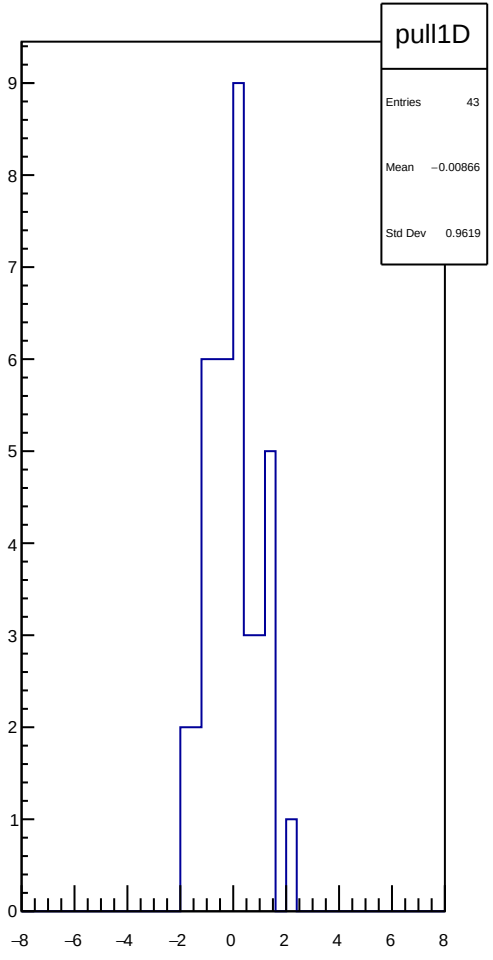

asym_sam8_correction_rms vs run
χ² / ndf 3086 / 42
p0 669.2 ± 0.7211
780
760
740
720
700
680
660
640
620
600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

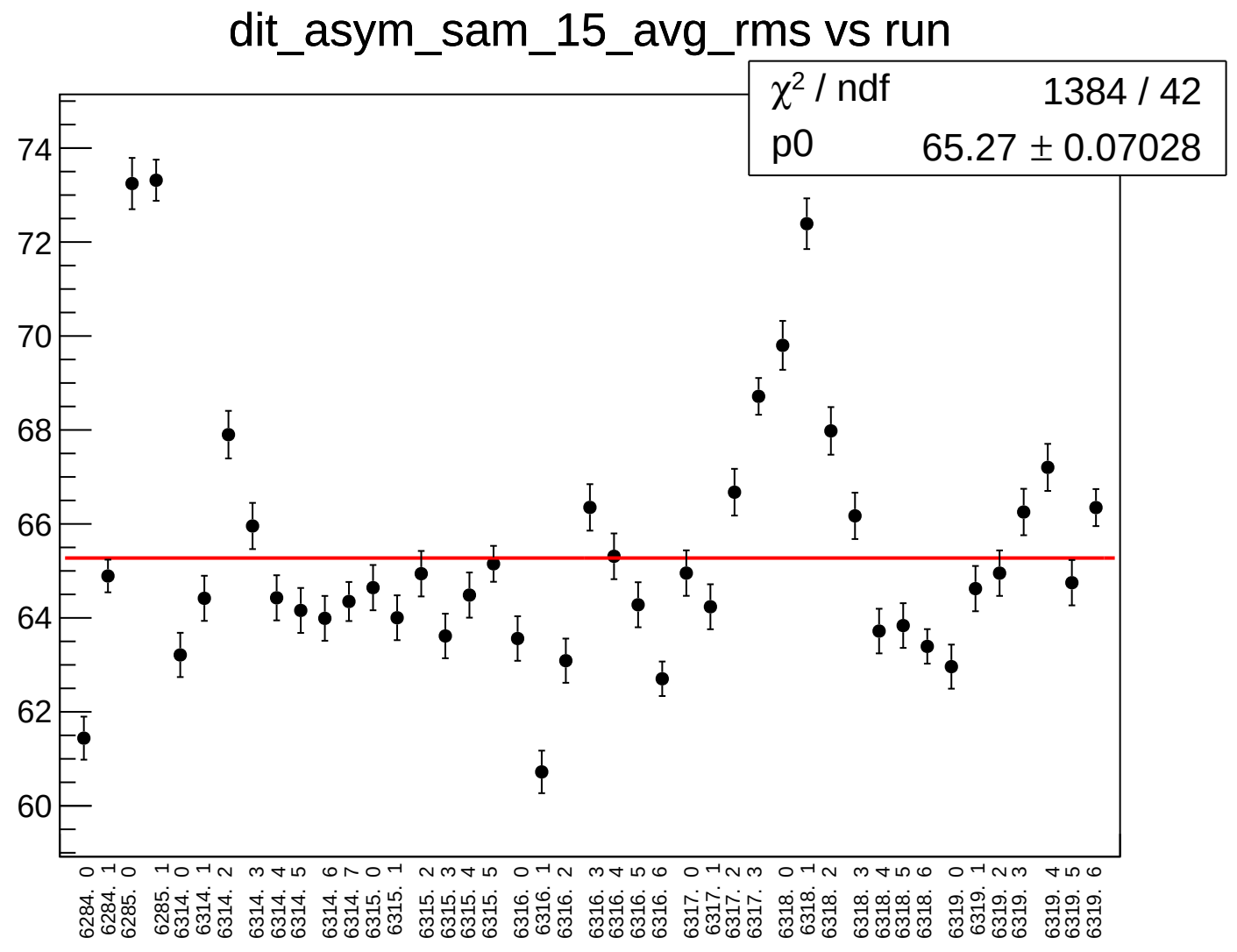

asym_sam8_mean vs run
χ² / ndf 43 / 42
p0 −221.3 ± 998.9
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −24.16
Std Dev 58.96
2
1
0
−1
−2

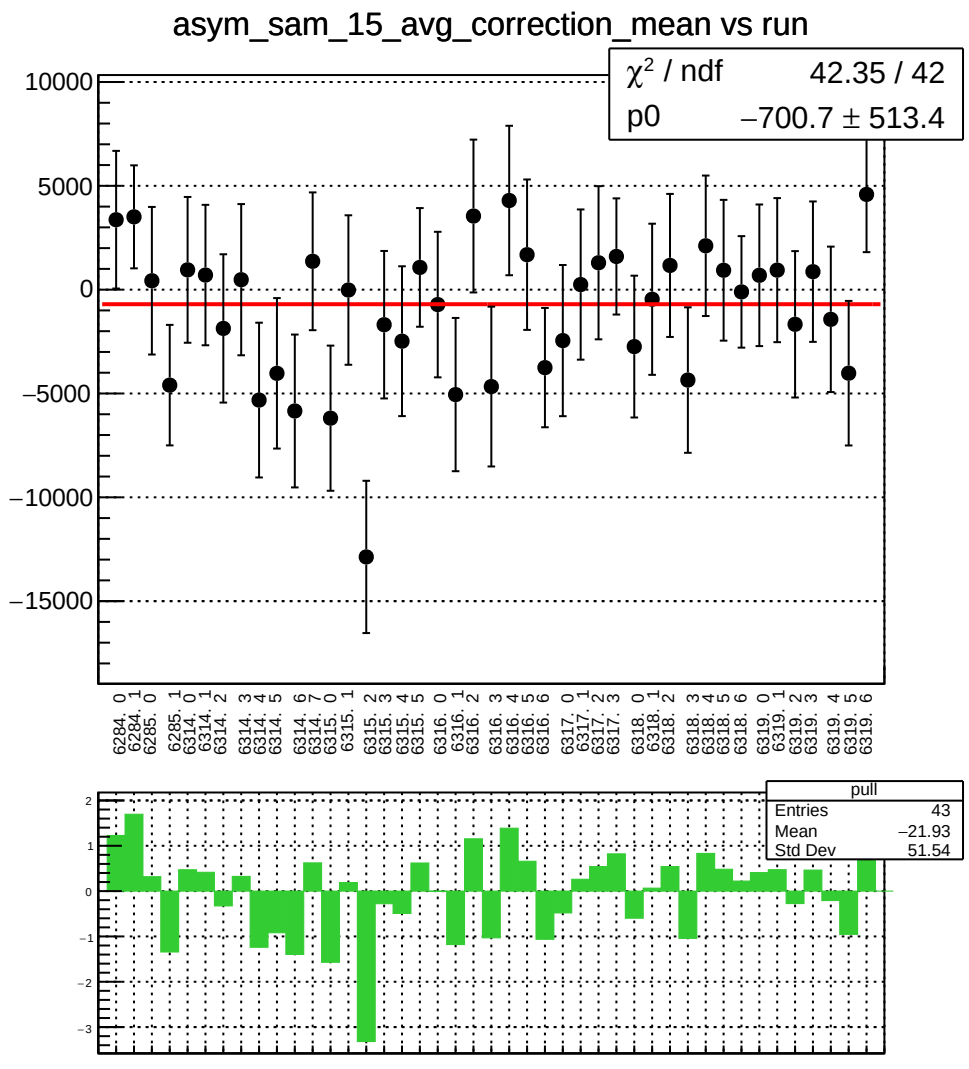

pull1D
Entries 43
Mean 0.02979
Std Dev 0.9996
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

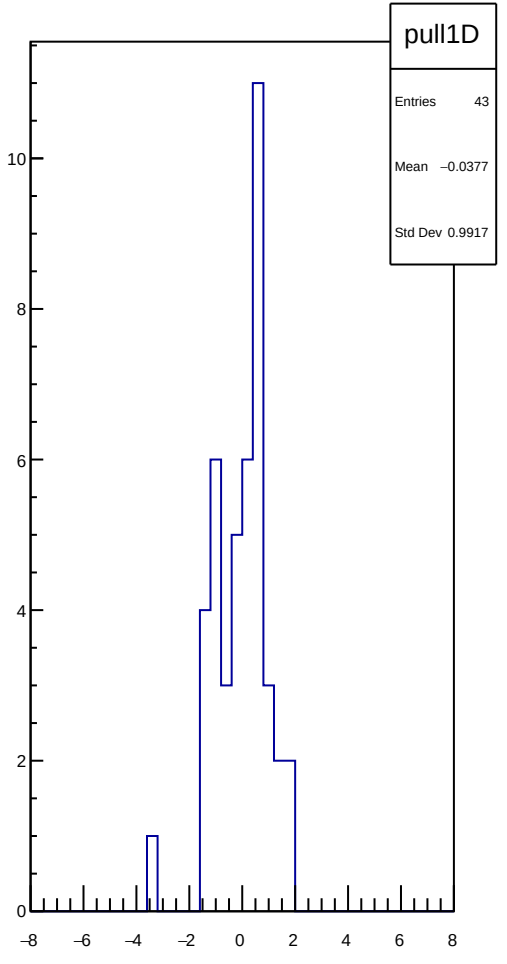

asym_sam8_rms vs run
χ² / ndf 3350 / 42
p0 655.3 ± 0.7063
750
700
650
600
550
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

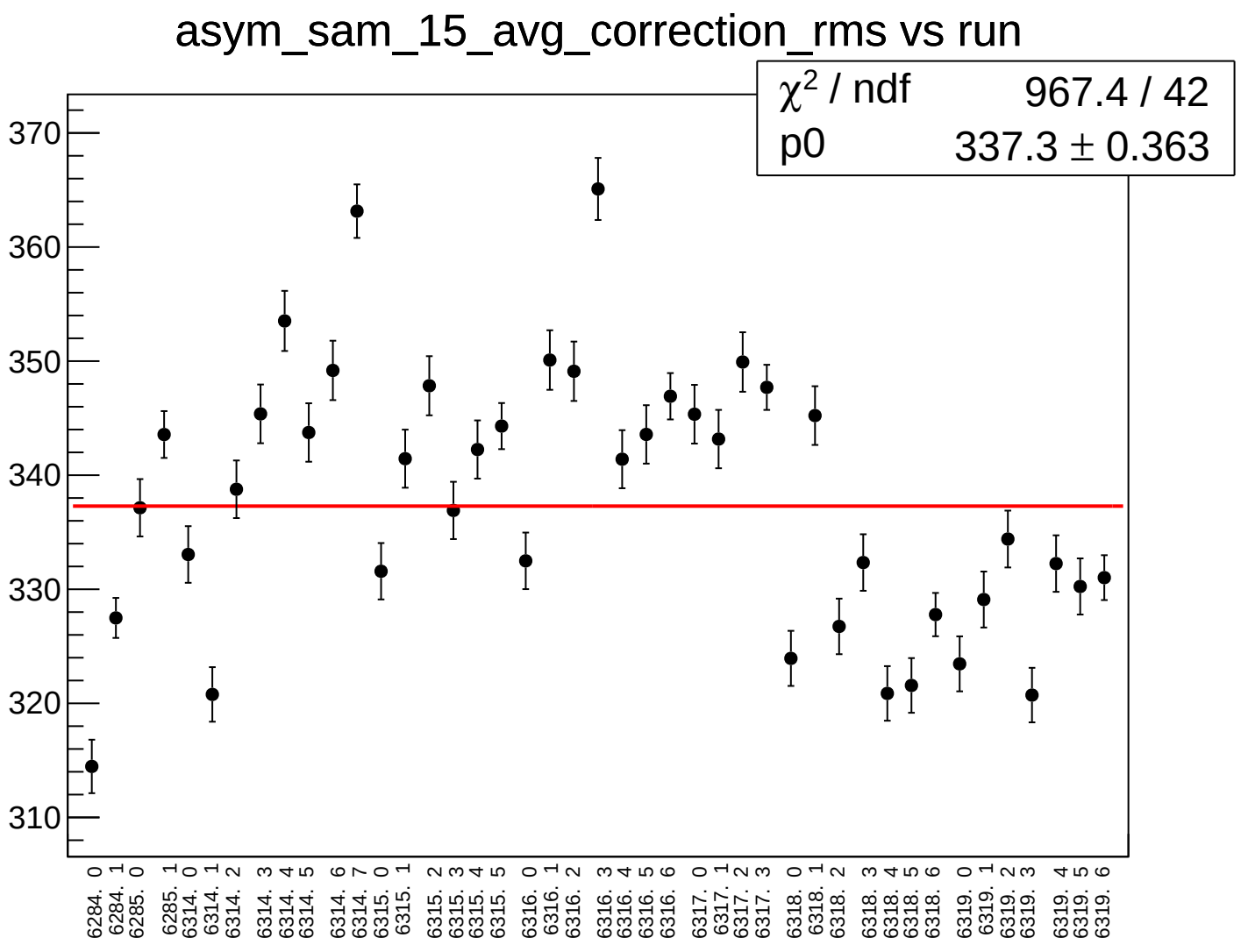

dit_asym_sam_15_avg_mean vs run
χ² / ndf 39.79 / 42
p0 −28.06 ± 99.39
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −93.11
Std Dev 123
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

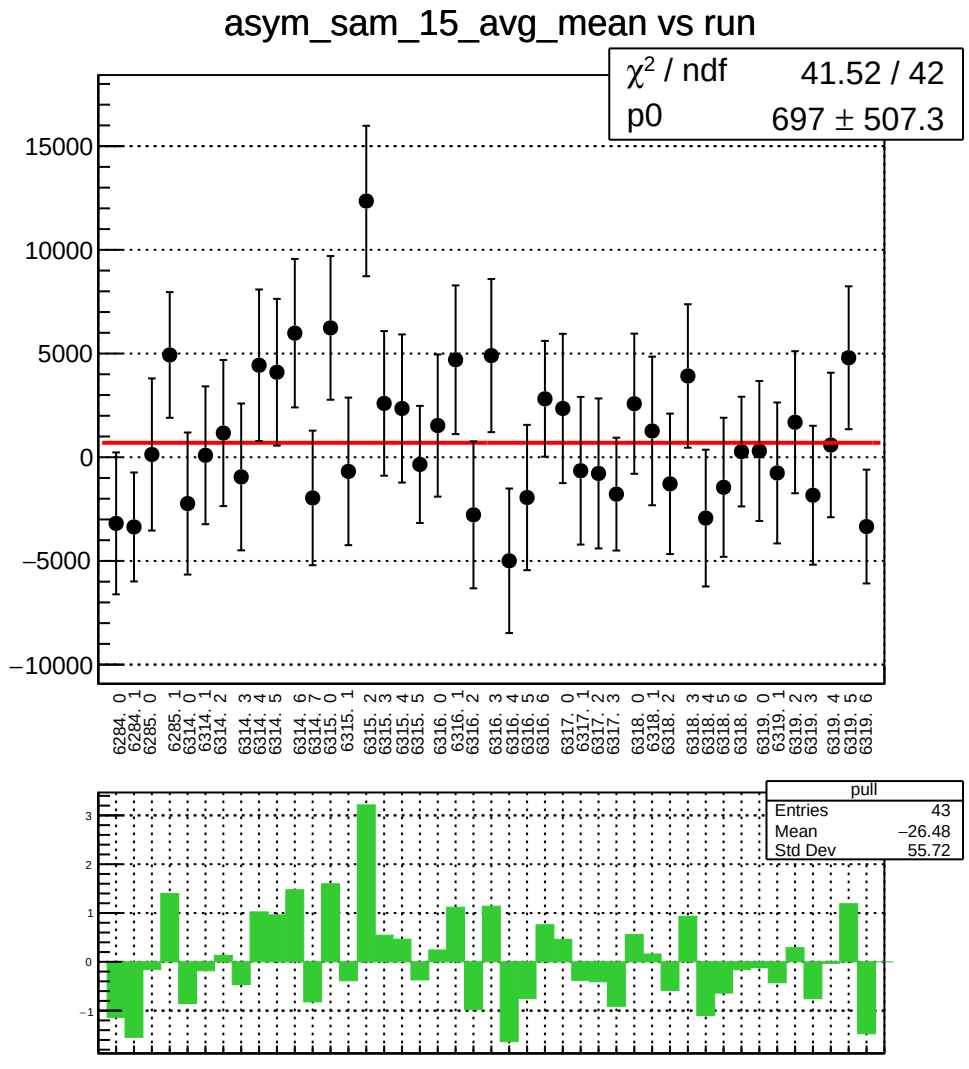

pull1D
Entries 43
Mean −0.00866
Std Dev 0.9619
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

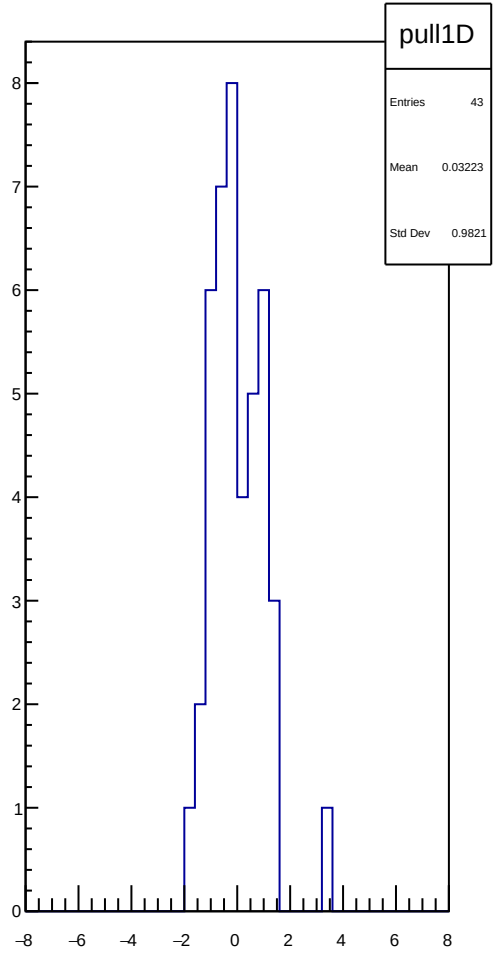

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1384 / 42
p0 65.27 ± 0.07028
74
72
70
68
66
64
62
60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

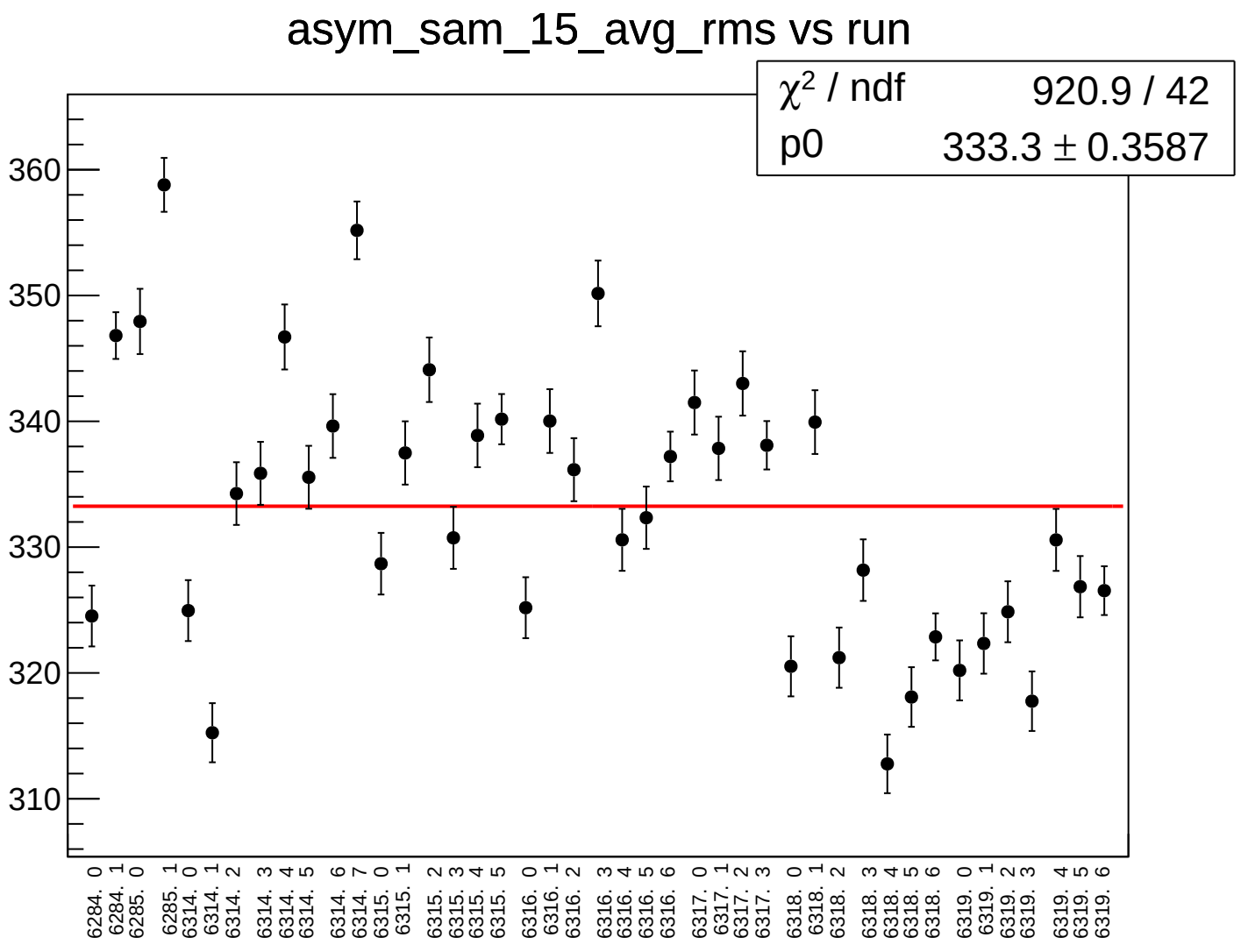

asym_sam_15_avg_correction_mean vs run
χ² / ndf 42.35 / 42
p0 −700.7 ± 513.4
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −21.93
Std Dev 51.54
2
1
0
−1
−2
−3

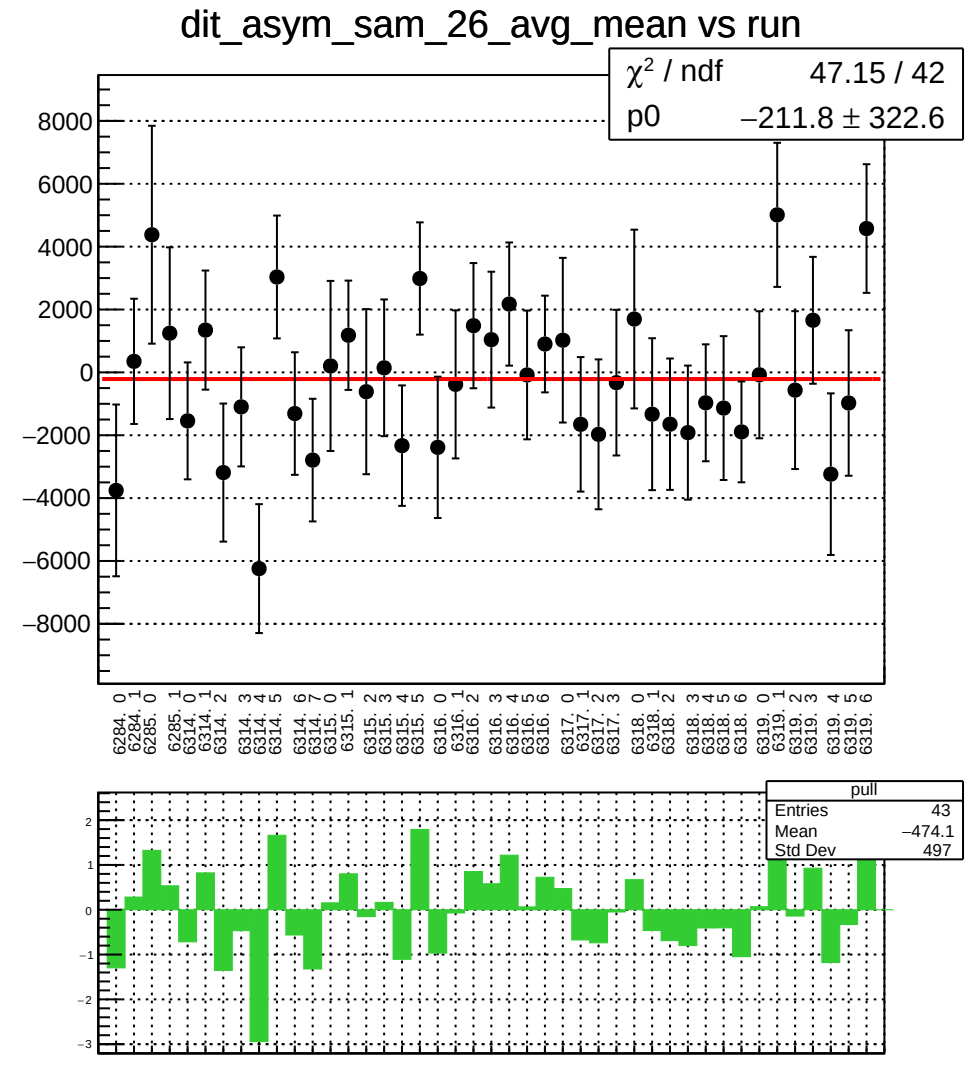

pull1D
Entries 43
Mean −0.0377
Std Dev 0.9917
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

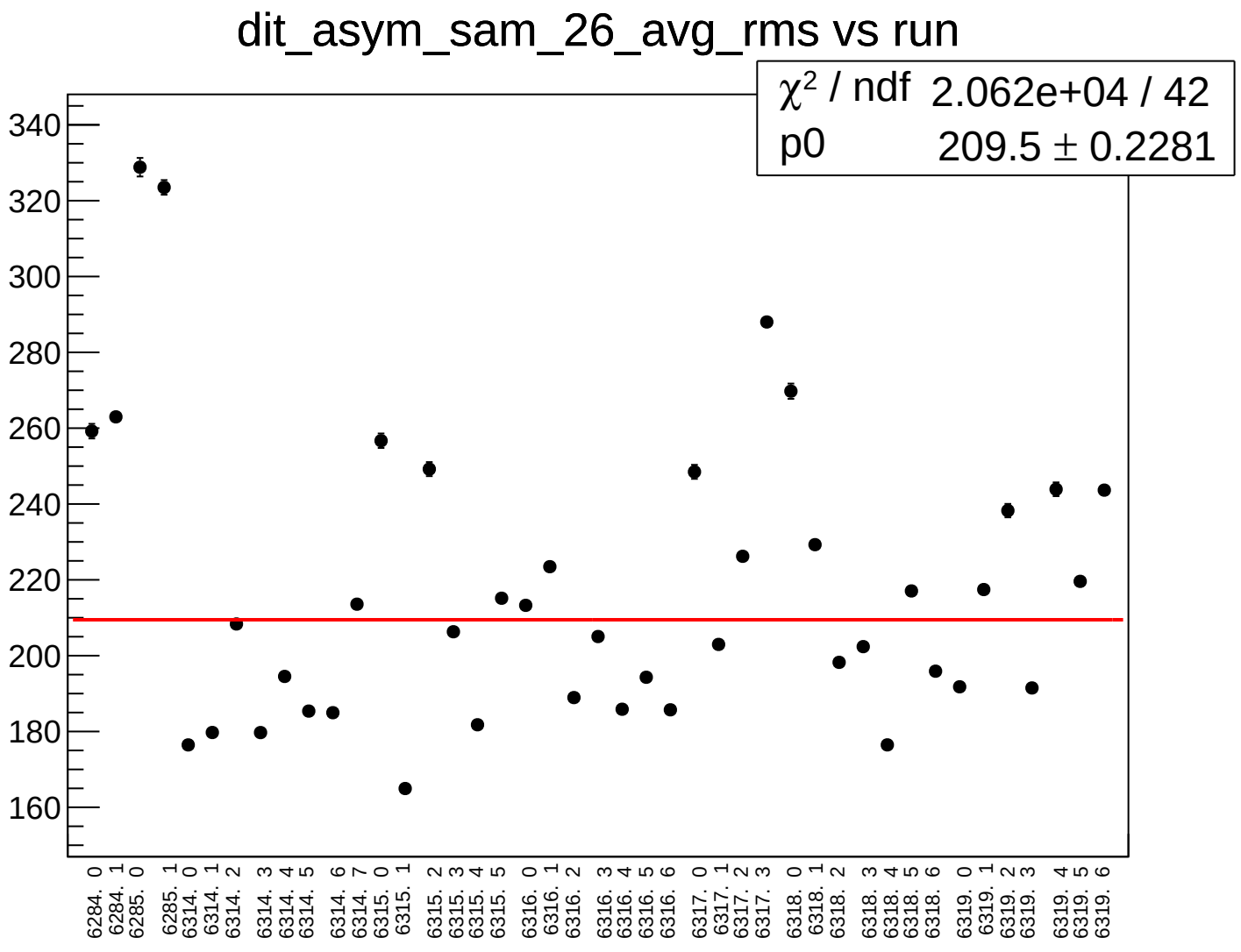

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 967.4 / 42
p0 337.3 ± 0.363
370
360
350
340
330
320
310
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

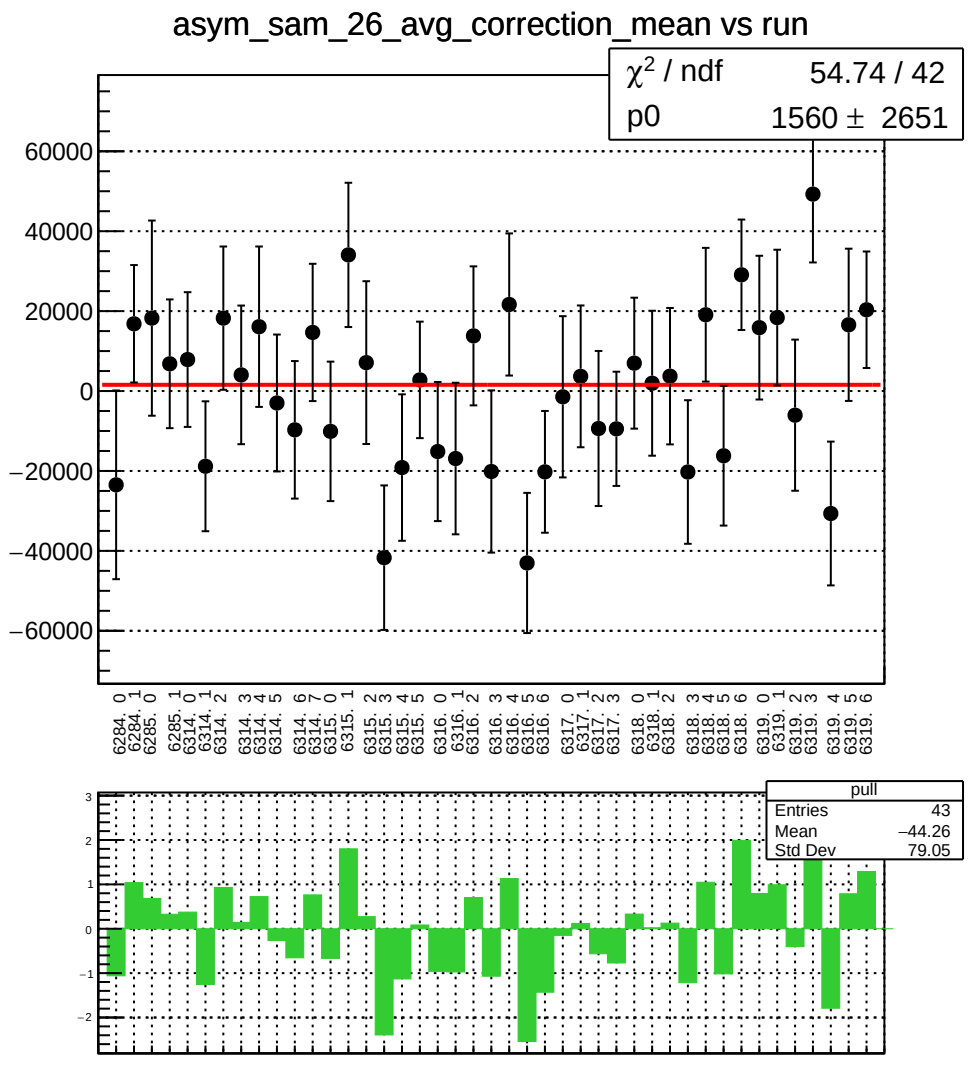

asym_sam_15_avg_mean vs run
χ² / ndf 41.52 / 42
p0 697 ± 507.3
15000
10000
5000
0
−5000
−10000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −26.48
Std Dev 55.72
3
2
1
0
−1

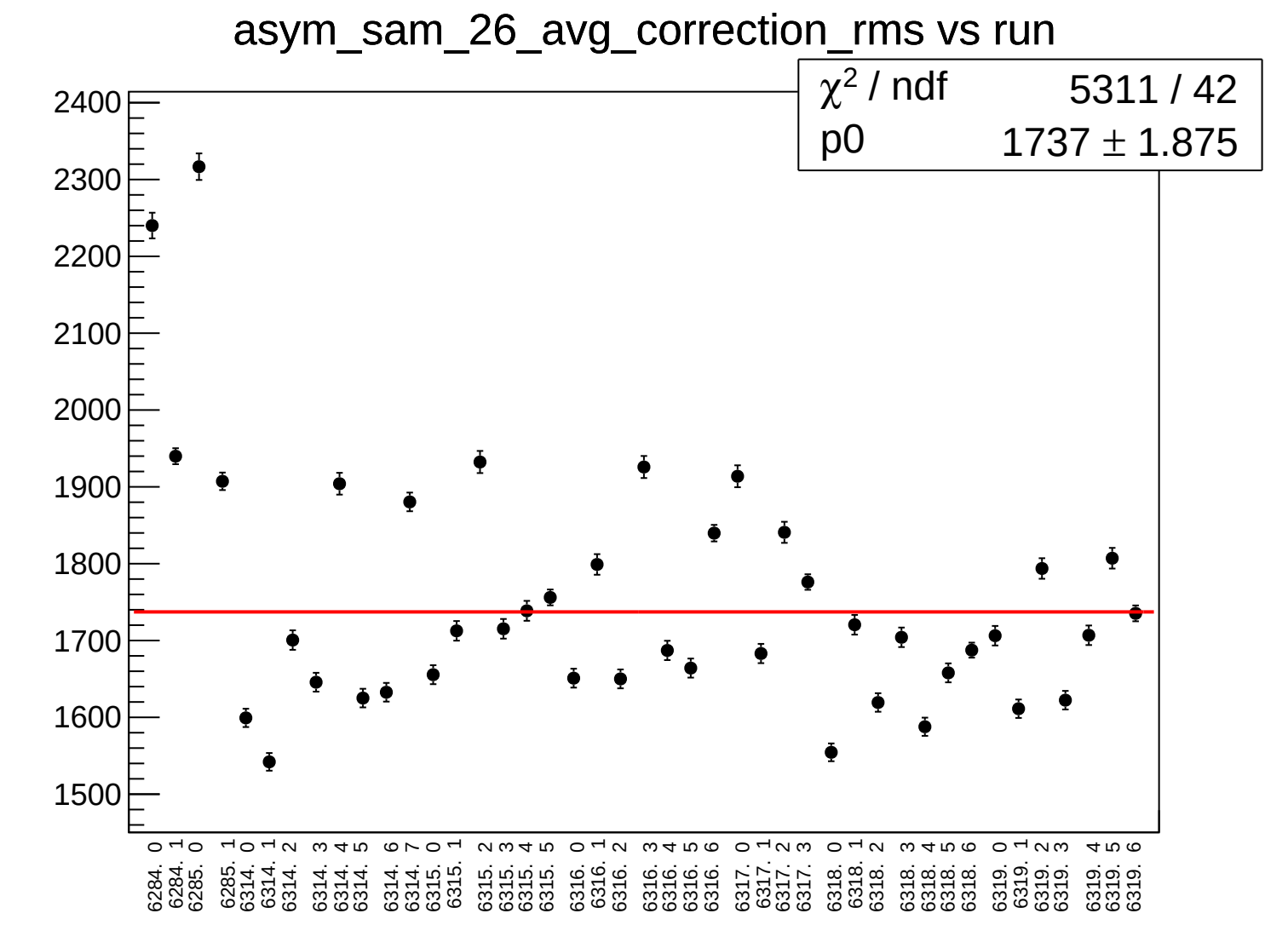

pull1D
Entries 43
Mean 0.03223
Std Dev 0.9821
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

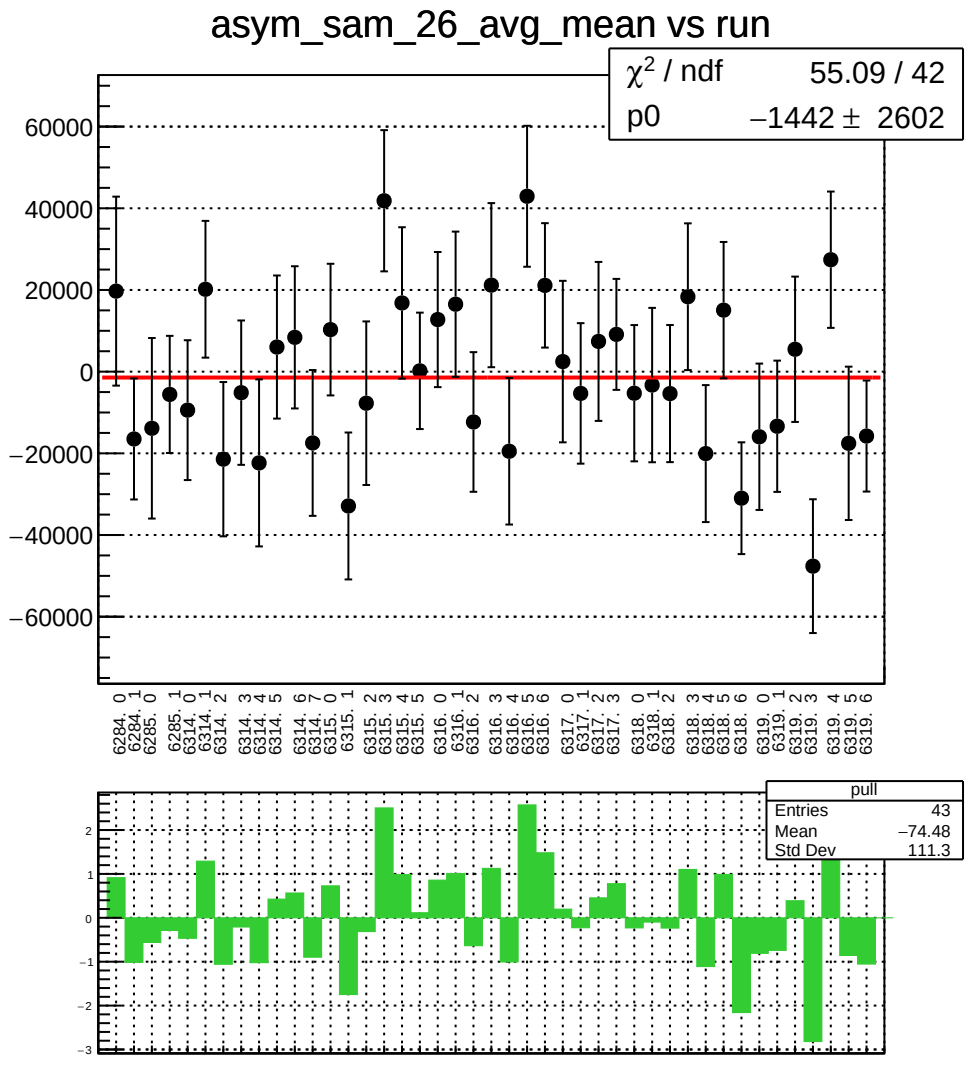

asym_sam_15_avg_rms vs run
χ^2 / ndf 920.9 / 42
p0 333.3 ± 0.3587
360
350
340
330
320
310
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

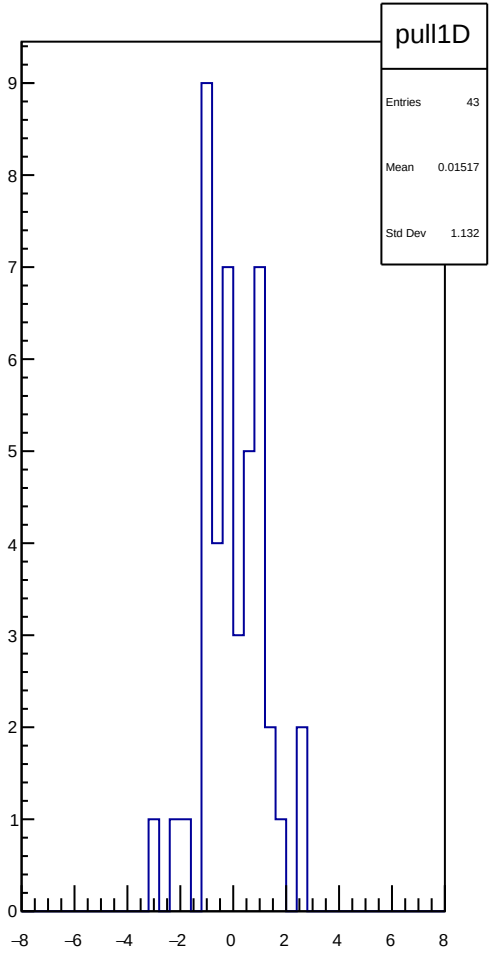

dit_asym_sam_26_avg_mean vs run
χ² / ndf 47.15 / 42
p0 −211.8 ± 322.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −474.1
Std Dev 497
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.003435
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

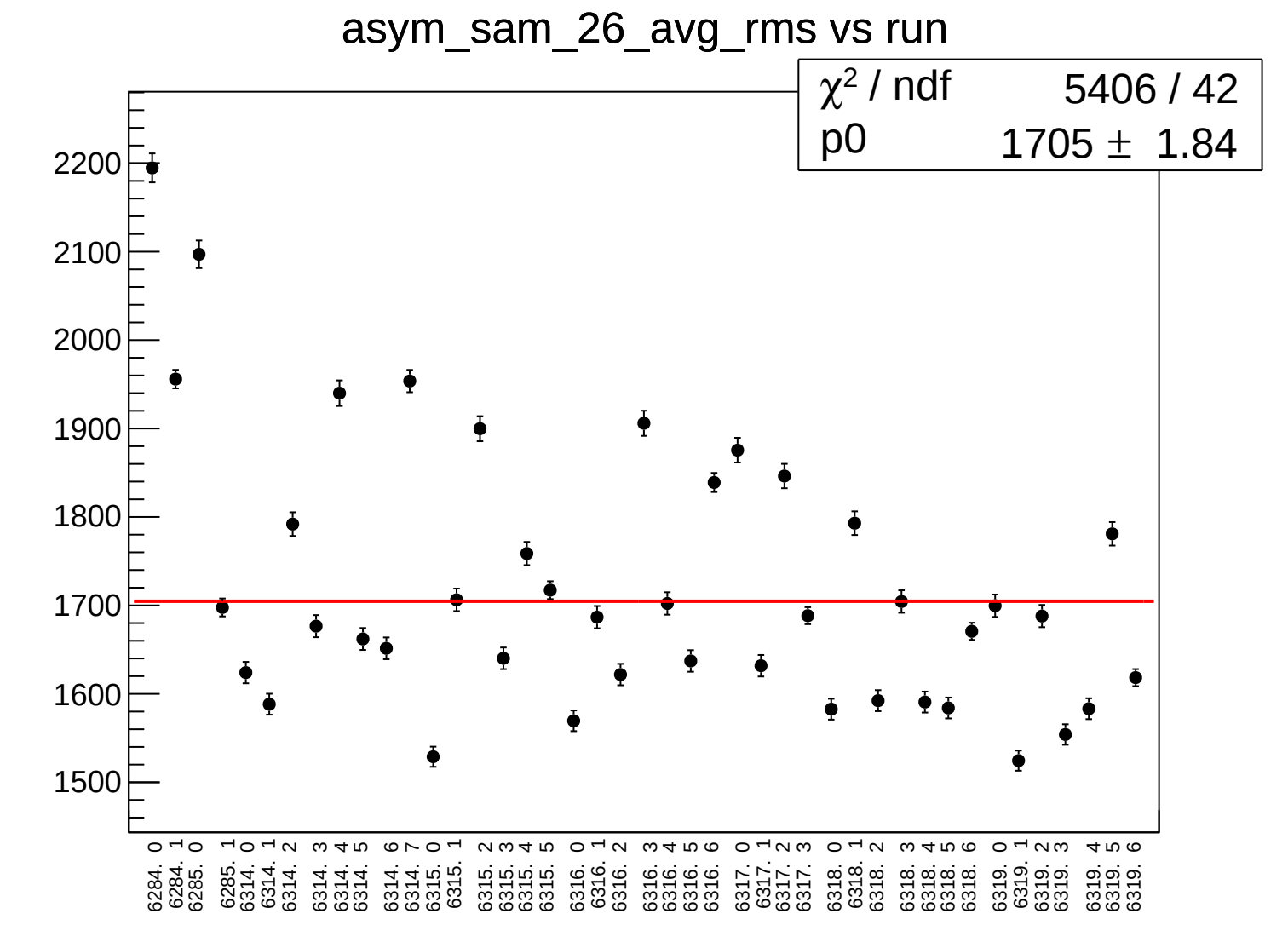

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.062e+04 / 42
p0 209.5 ± 0.2281
340
320
300
280
260
240
220
200
180
160
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

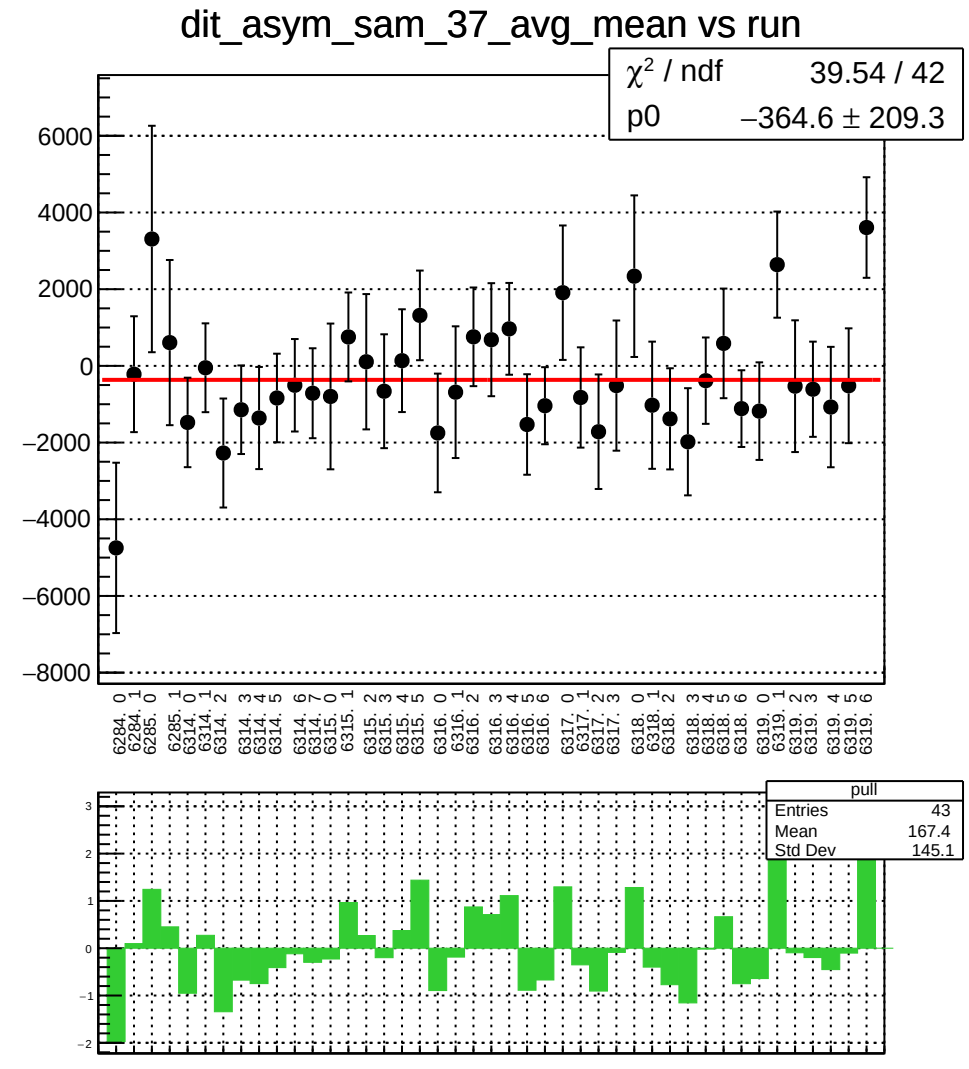

asym_sam_26_avg_correction_mean vs run
χ² / ndf 54.74 / 42
p0 1560 ± 2651
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −44.26
Std Dev 79.05
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02409
Std Dev 1.128
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

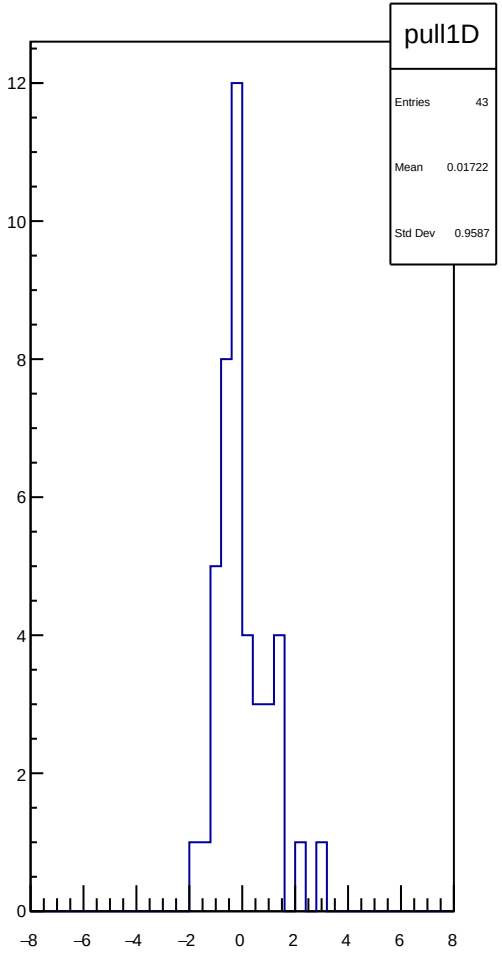

asym_sam_26_avg_correction_rms vs run
χ² / ndf 5311 / 42
p0 1737 ± 1.875
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

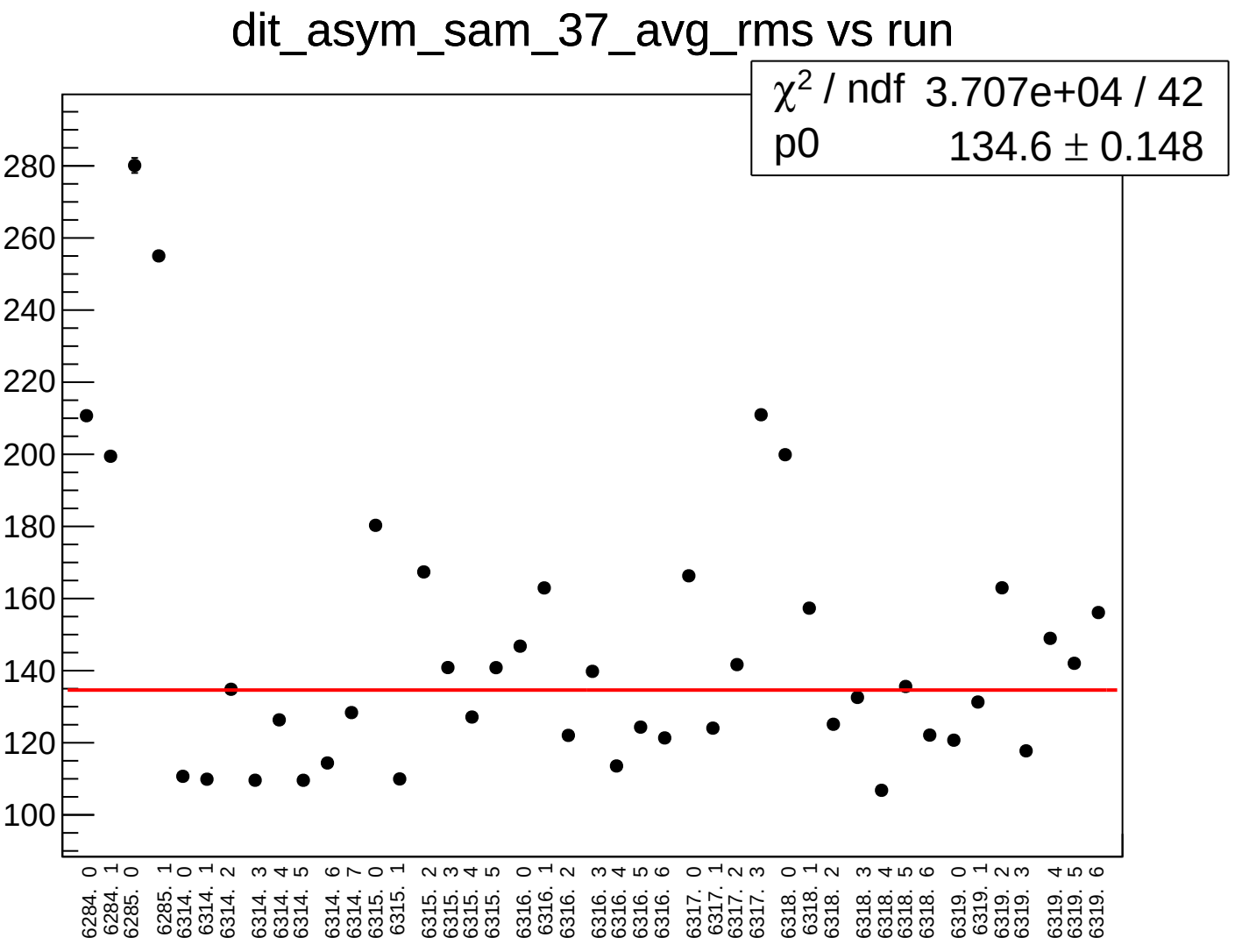

asym_sam_26_avg_mean vs run
χ² / ndf 55.09 / 42
p0 −1442 ± 2602
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −74.48
Std Dev 111.3
2
1
0
−1
−2
−3

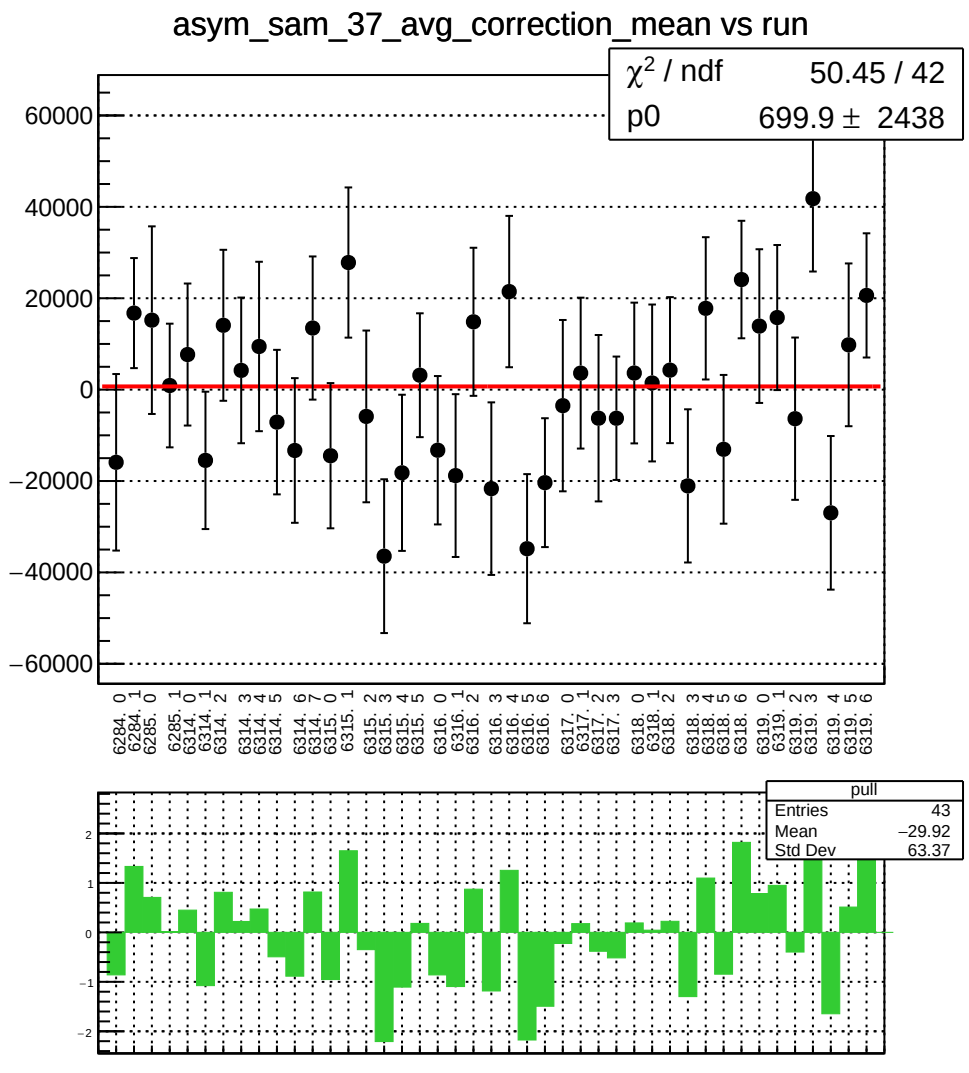

pull1D
Entries 43
Mean 0.01517
Std Dev 1.132
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

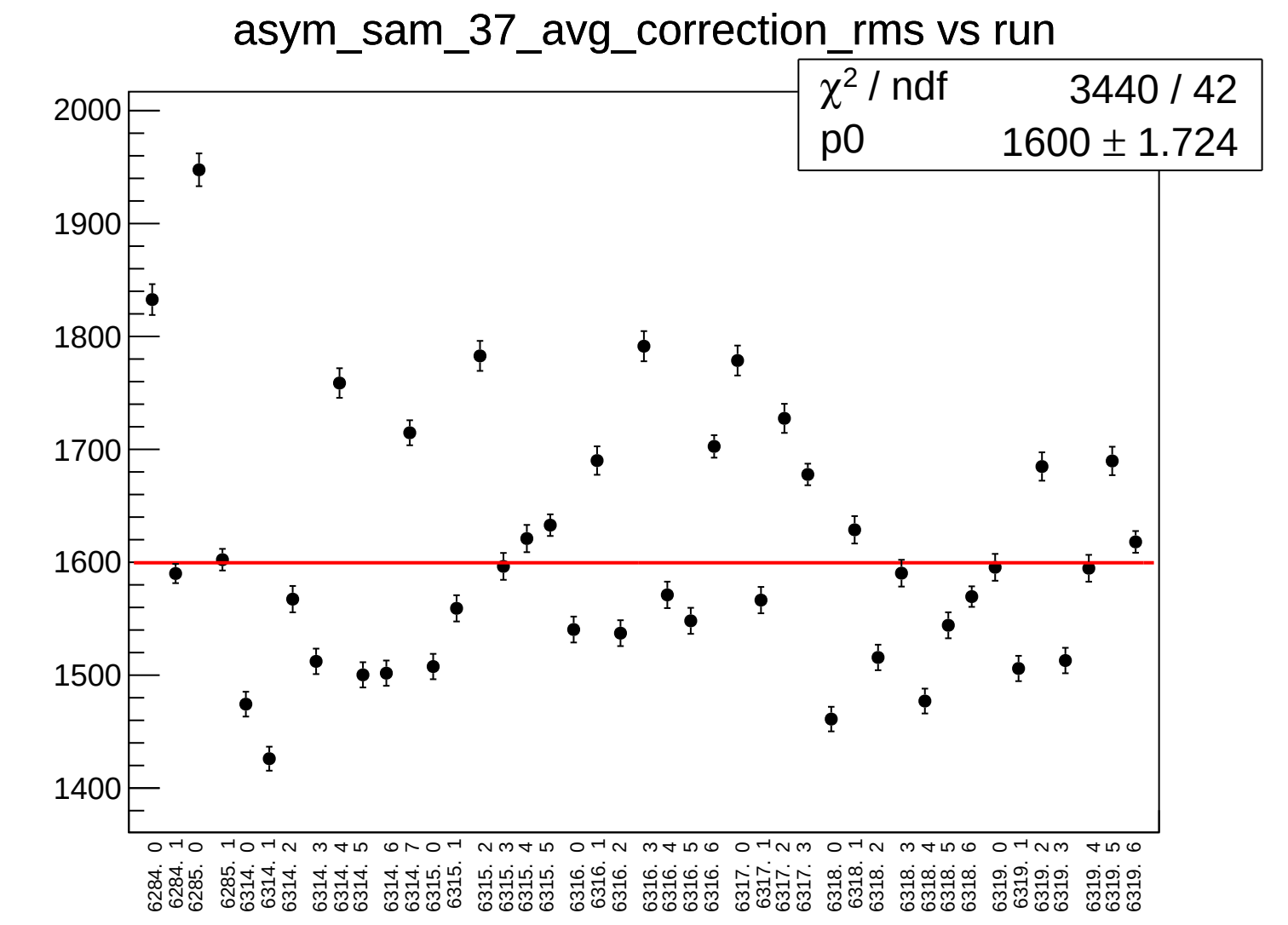

asym_sam_26_avg_rms vs run
χ² / ndf 5406 / 42
p0 1705 ± 1.84
2200
2100
2000
1900
1800
1700
1600
1500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

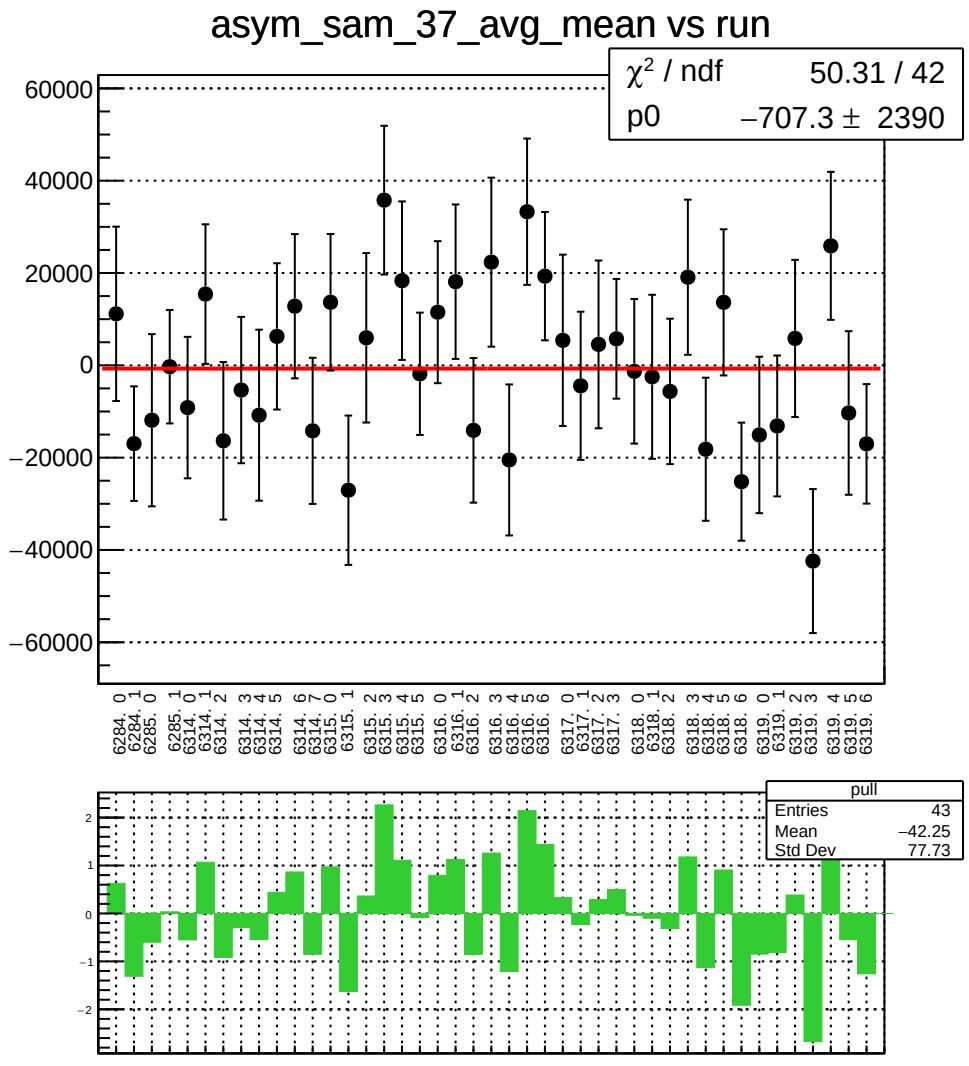

dit_asym_sam_37_avg_mean vs run
χ² / ndf 39.54 / 42
p0 −364.6 ± 209.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 167.4
Std Dev 145.1
3
2
1
0
−1
−2

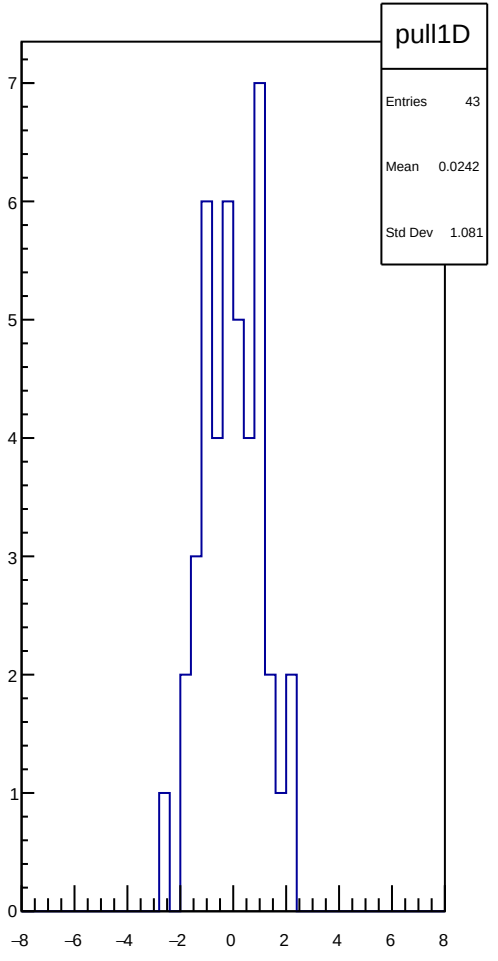

pull1D
Entries 43
Mean 0.01722
Std Dev 0.9587
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

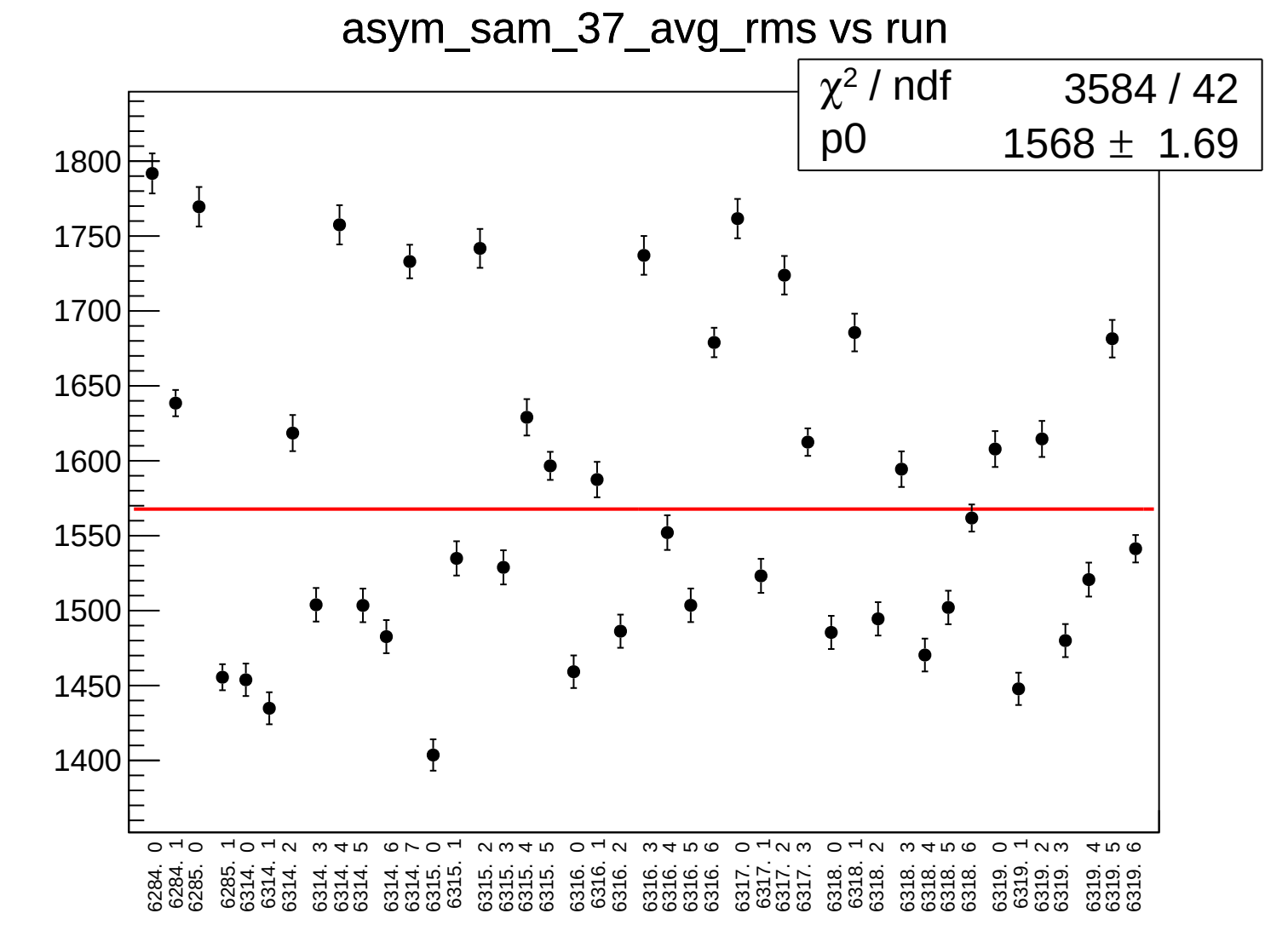

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.707e+04 / 42
p0 134.6 ± 0.148
280
260
240
220
200
180
160
140
120
100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

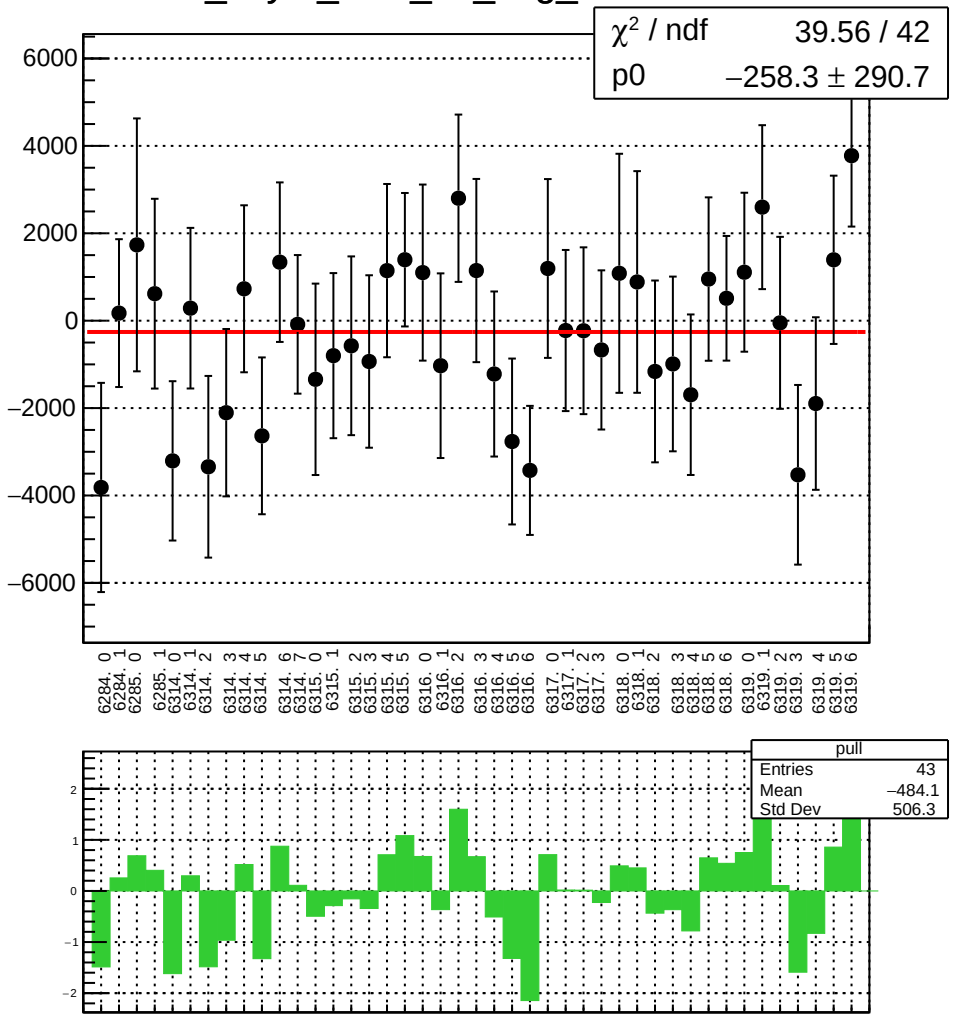

asym_sam_37_avg_correction_mean vs run
χ² / ndf 50.45 / 42
p0 699.9 ± 2438
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −29.92
Std Dev 63.37
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03328
Std Dev 1.083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

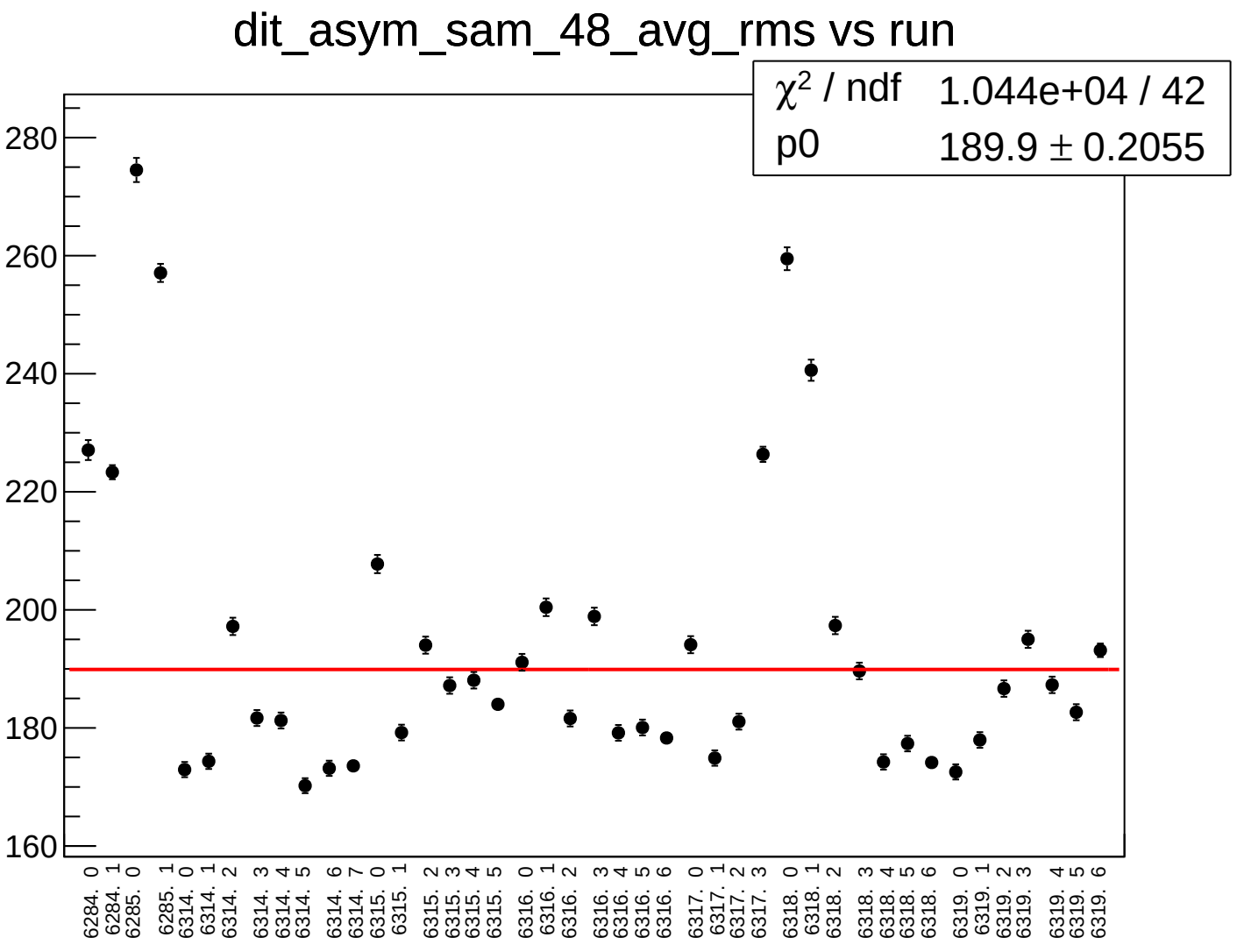

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3440 / 42
p0 1600 ± 1.724
2000
1900
1800
1700
1600
1500
1400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

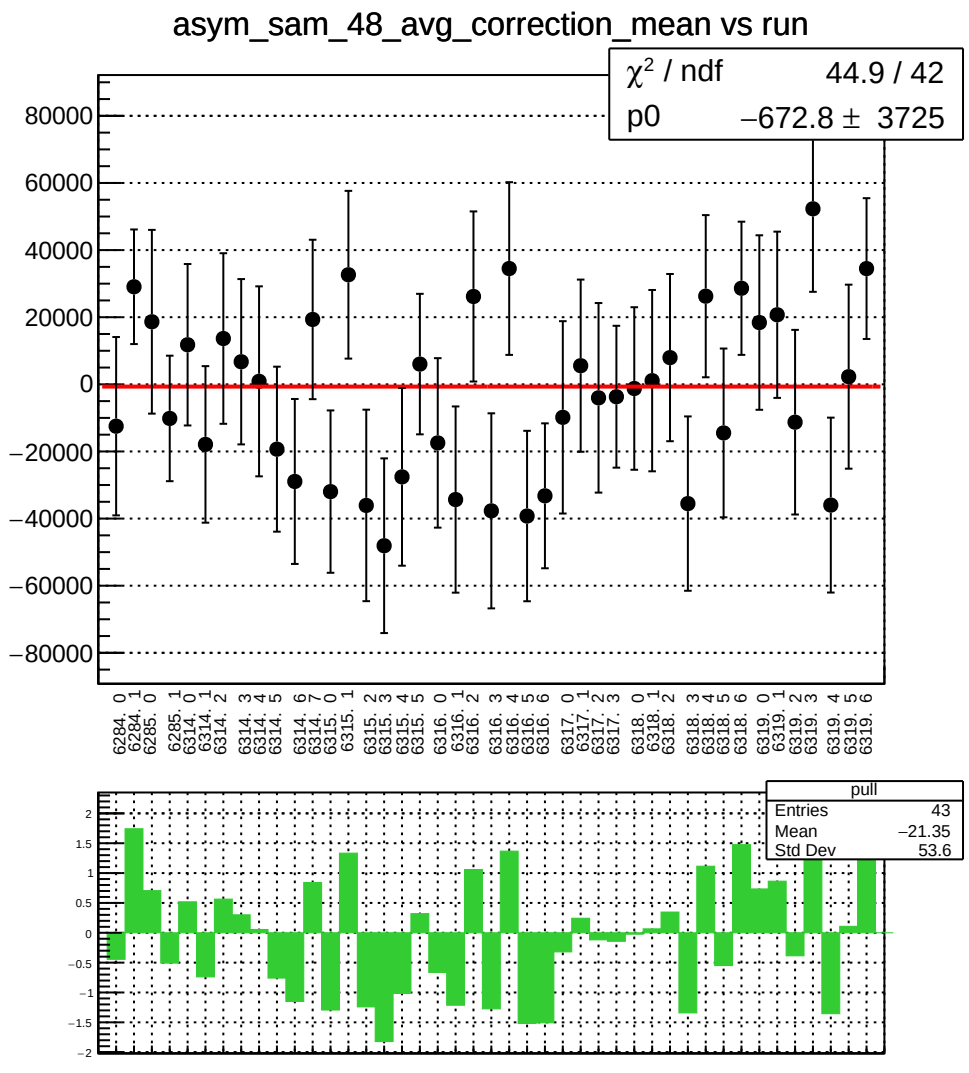

asym_sam_37_avg_mean vs run
χ² / ndf 50.31 / 42
p0 −707.3 ± 2390
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −42.25
Std Dev 77.73
2
1
0
−1
−2

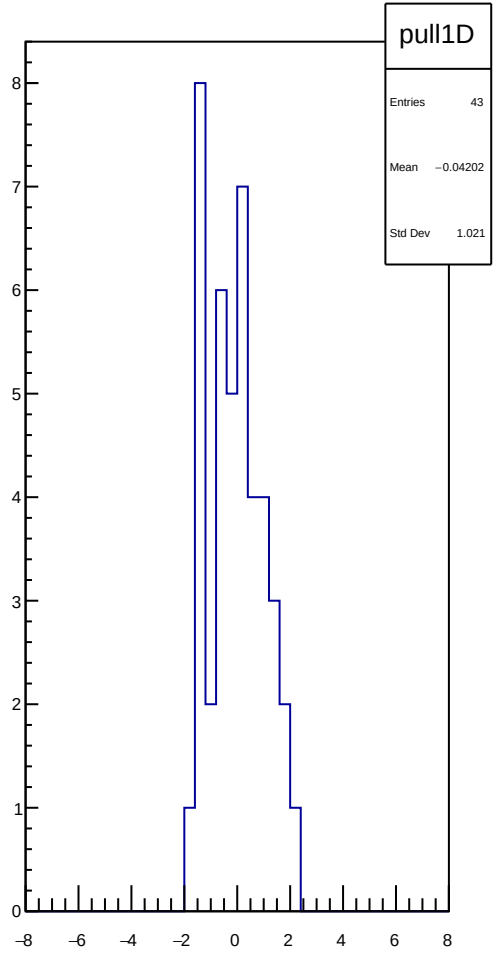

pull1D
Entries 43
Mean 0.0242
Std Dev 1.081
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

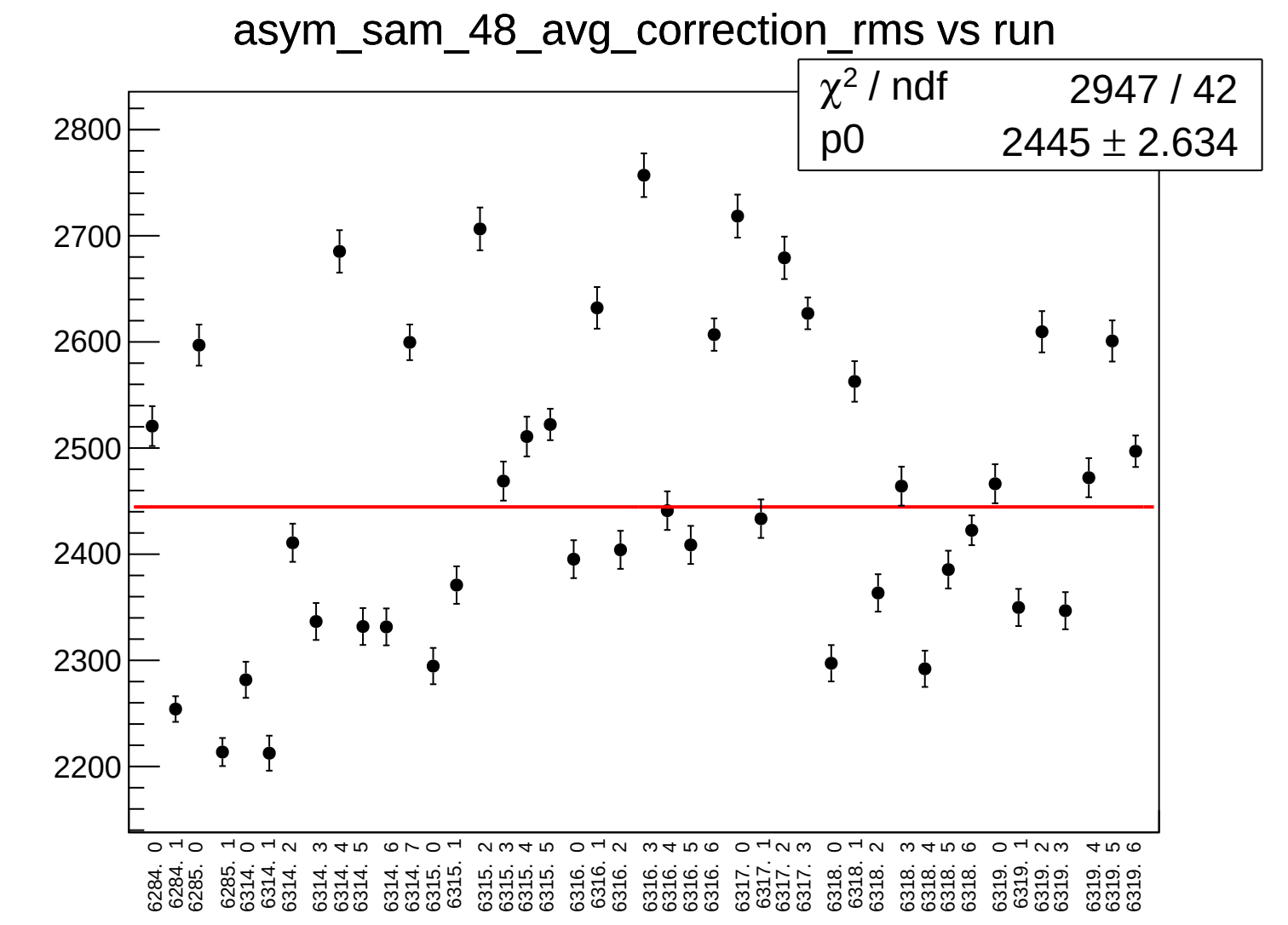

asym_sam_37_avg_rms vs run
χ² / ndf 3584 / 42
p0 1568 ± 1.69
1800
1750
1700
1650
1600
1550
1500
1450
1400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

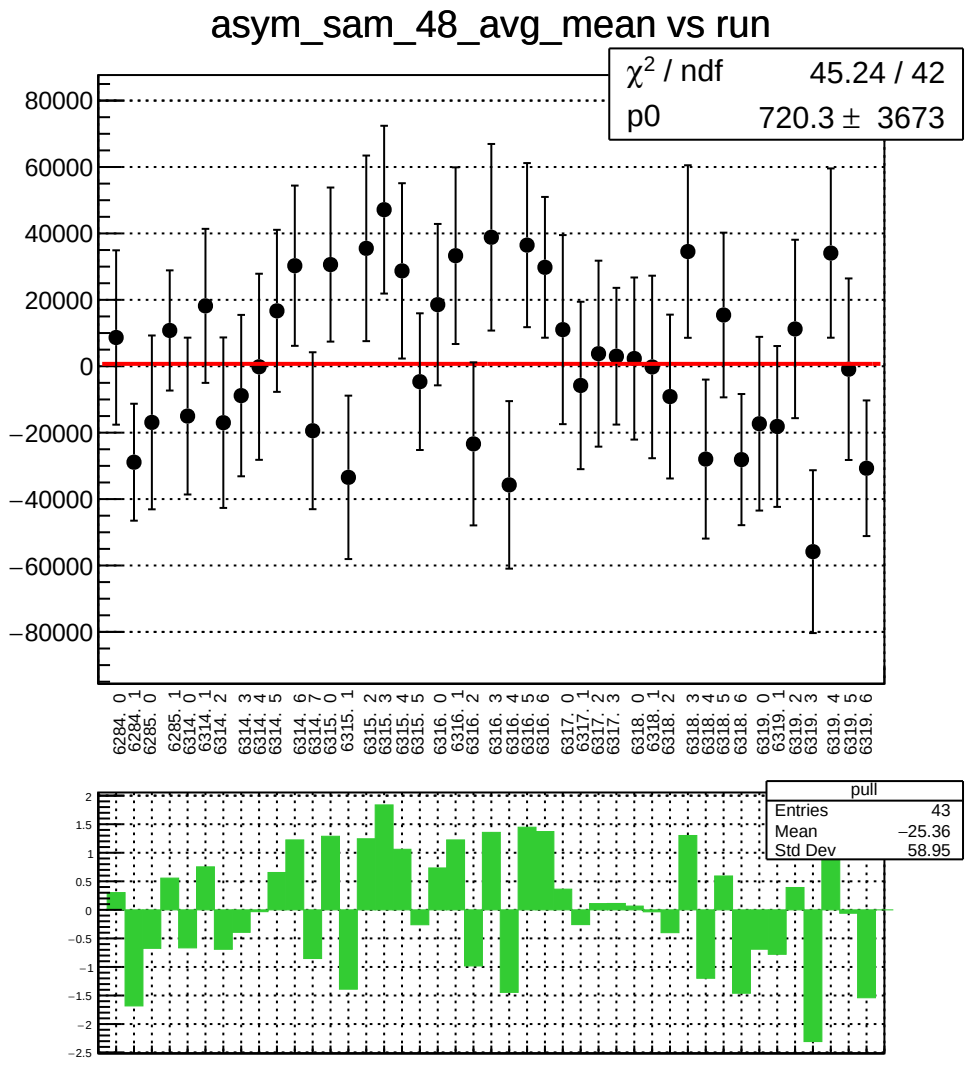

dit_asym_sam_48_avg_mean vs run
χ² / ndf 39.56 / 42
p0 −258.3 ± 290.7
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −484.1
Std Dev 506.3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005628
Std Dev 0.9592
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

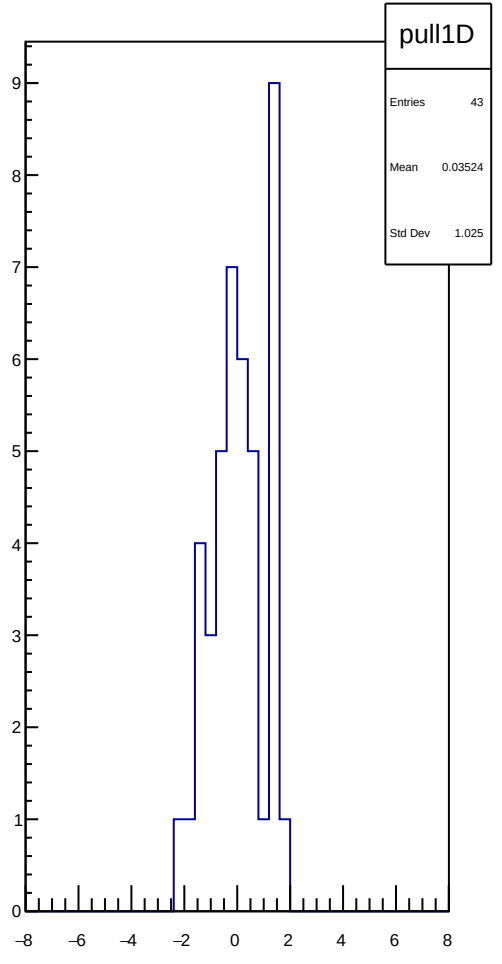

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.044e+04 / 42
p0 189.9 ± 0.2055
280
260
240
220
200
180
160
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

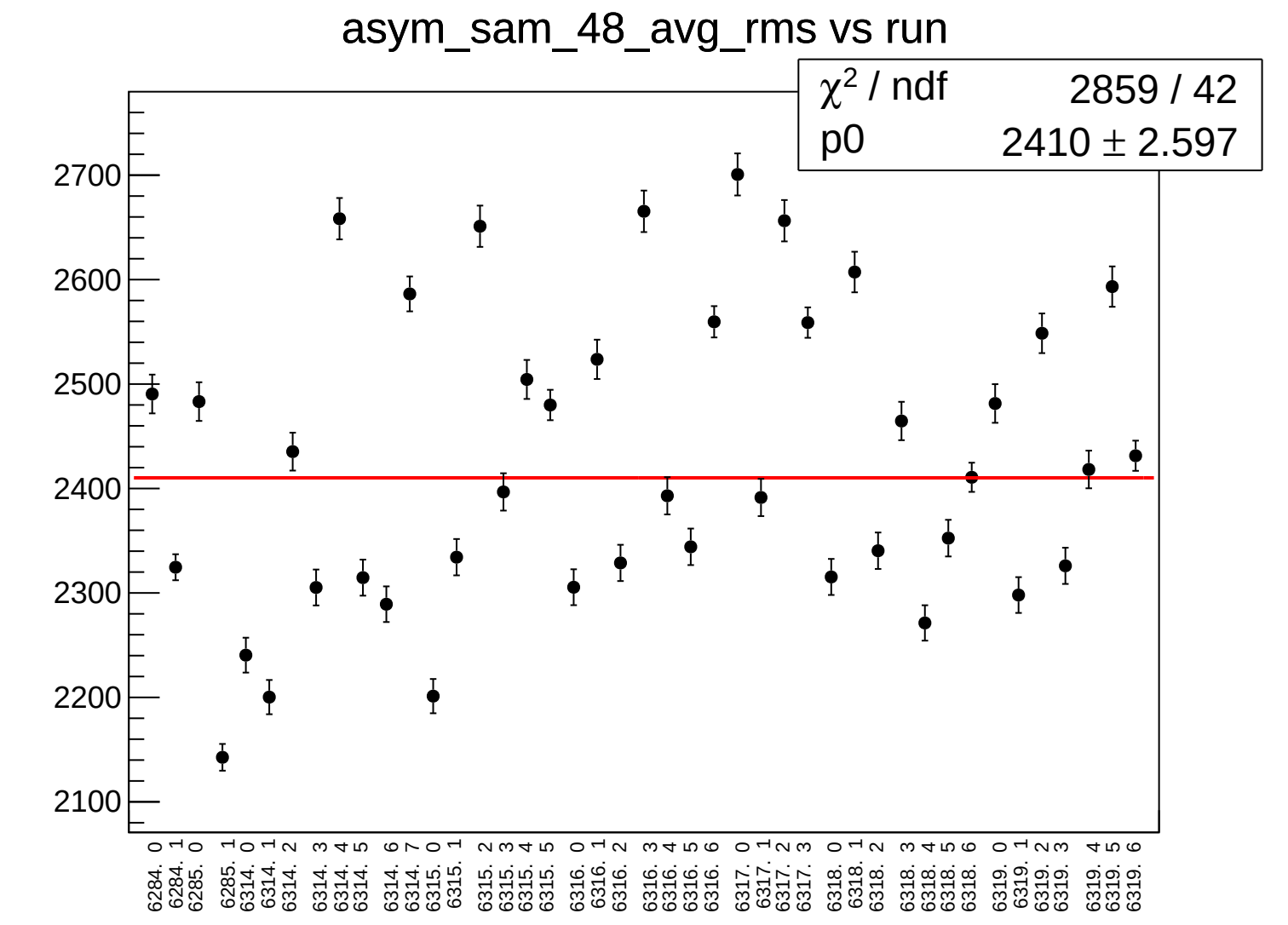

asym_sam_48_avg_correction_mean vs run
χ² / ndf 44.9 / 42
p0 −672.8 ± 3725
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −21.35
Std Dev 53.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

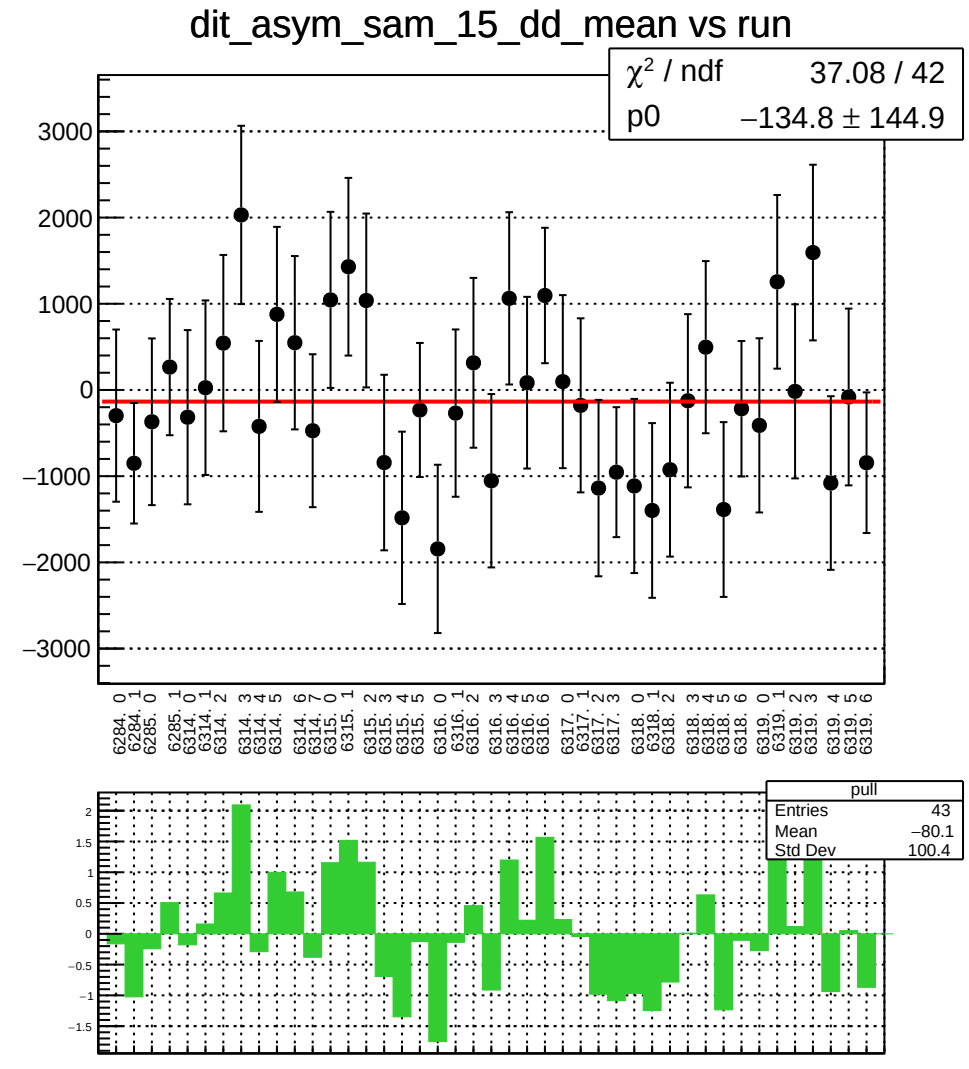

pull1D
Entries 43
Mean −0.04202
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

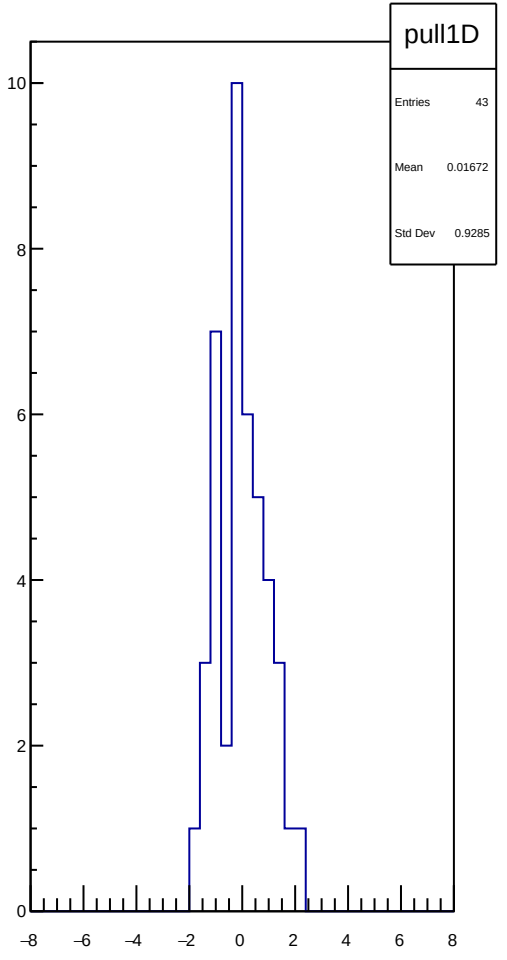

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2947 / 42
p0 2445 ± 2.634
2800
2700
2600
2500
2400
2300
2200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

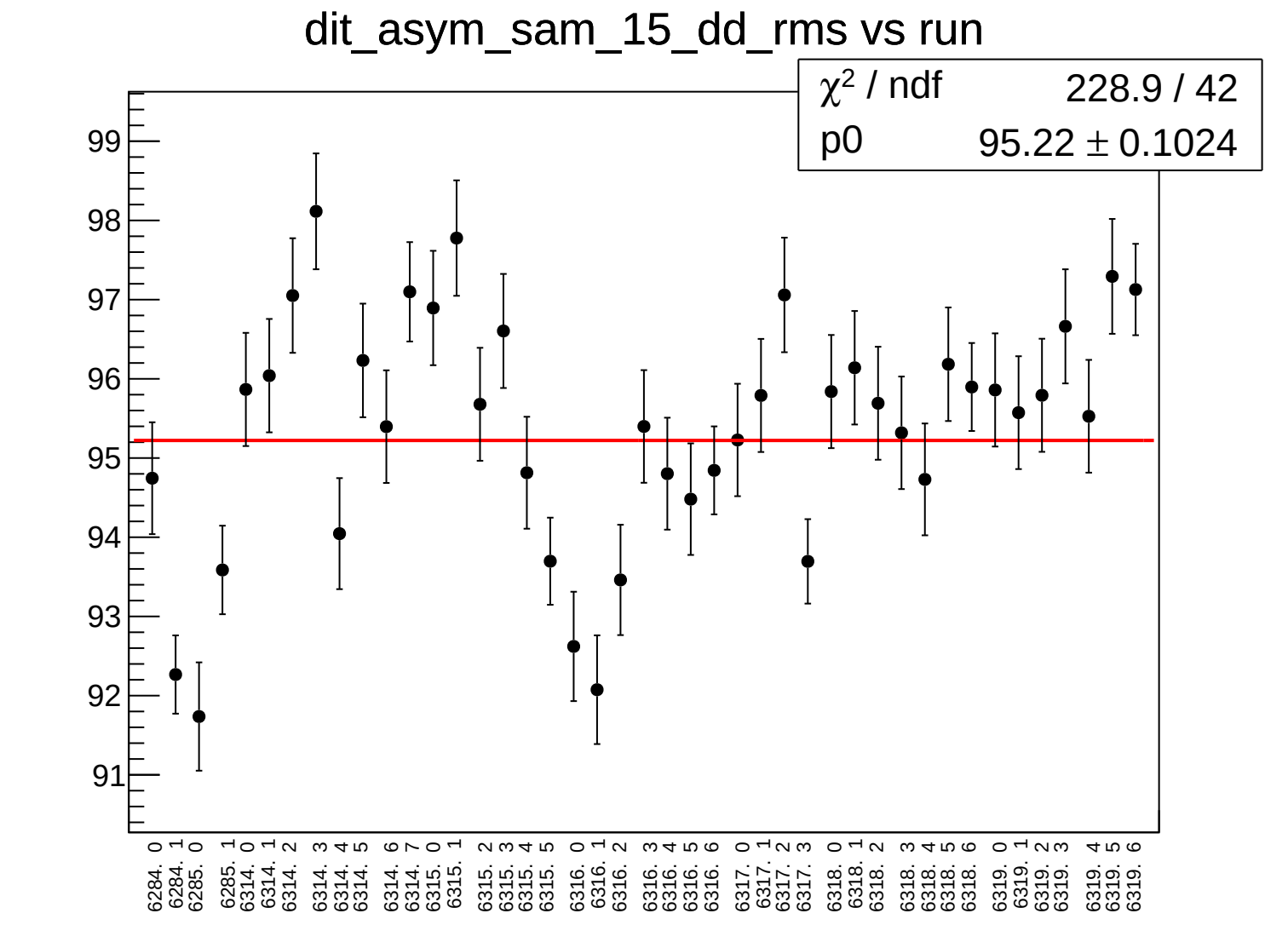

asym_sam_48_avg_mean vs run
χ² / ndf 45.24 / 42
p0 720.3 ± 3673
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −25.36
Std Dev 58.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

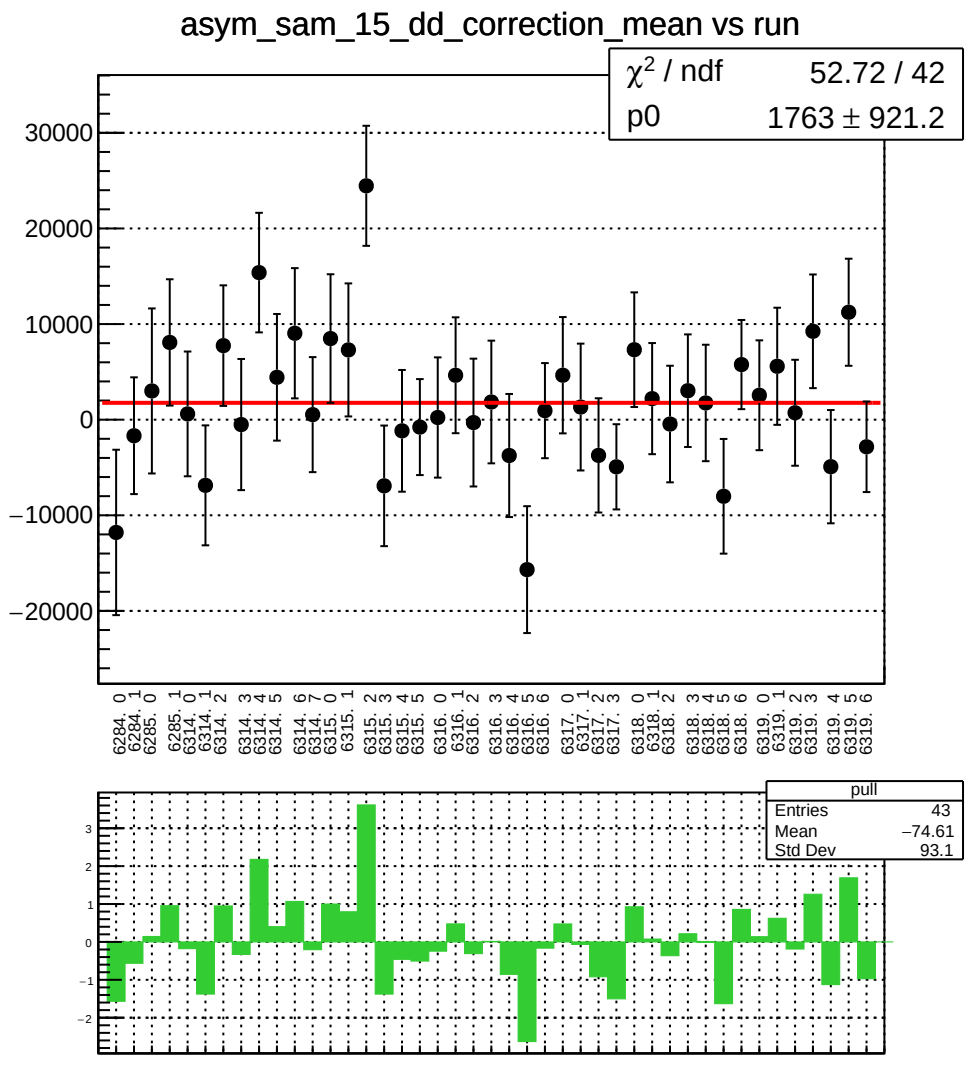

pull1D
Entries 43
Mean 0.03524
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

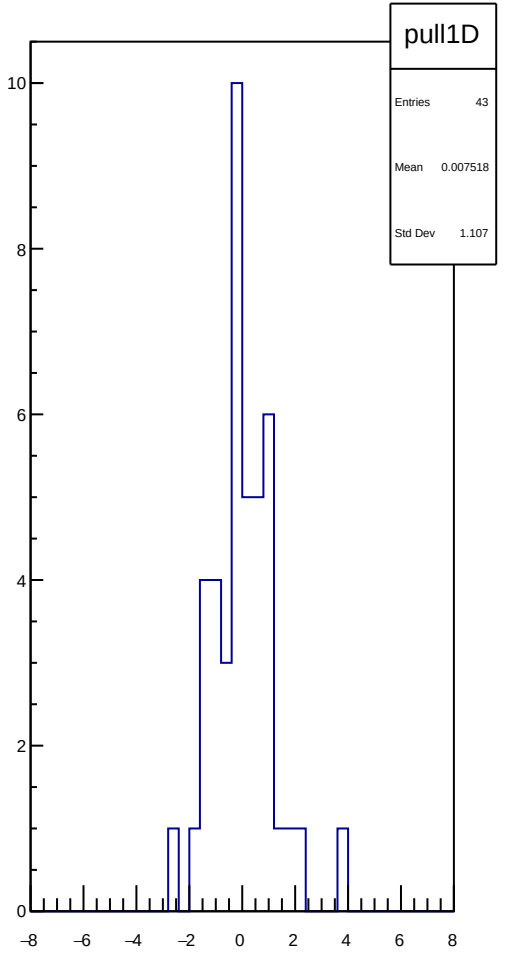

asym_sam_48_avg_rms vs run
χ² / ndf 2859 / 42
p0 2410 ± 2.597
2700
2600
2500
2400
2300
2200
2100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

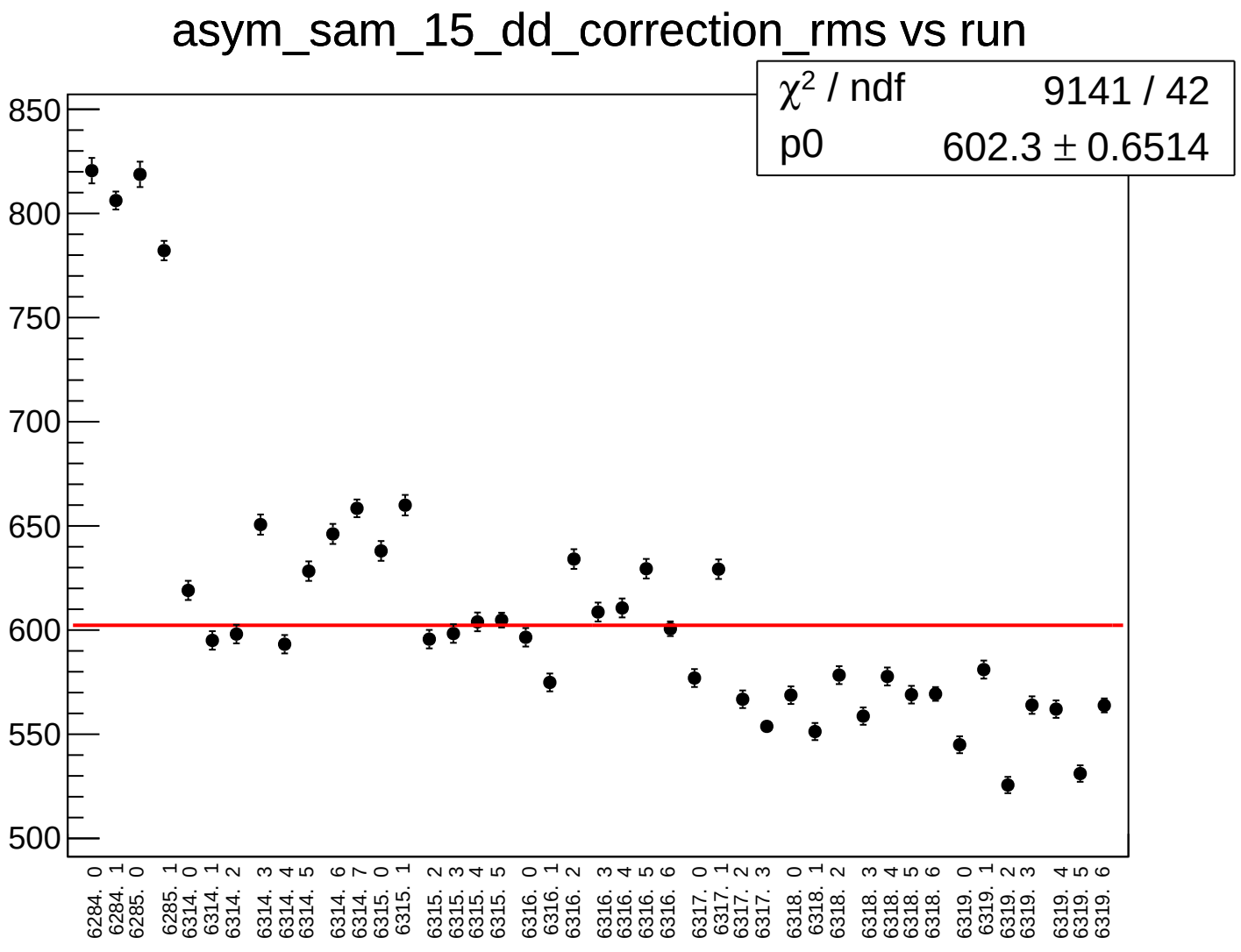

dit_asym_sam_15_dd_mean vs run
χ² / ndf 37.08 / 42
p0 −134.8 ± 144.9
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −80.1
Std Dev 100.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

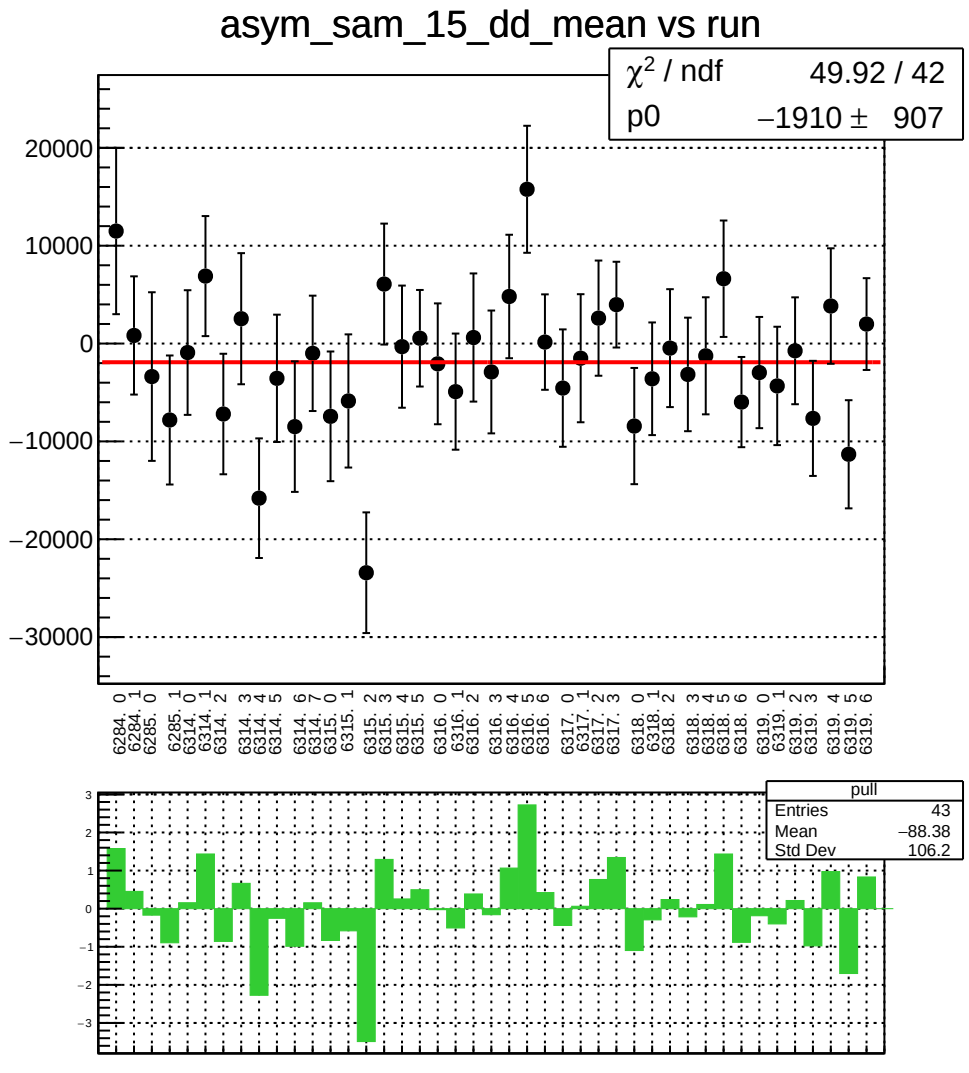

pull1D
Entries 43
Mean 0.01672
Std Dev 0.9285
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

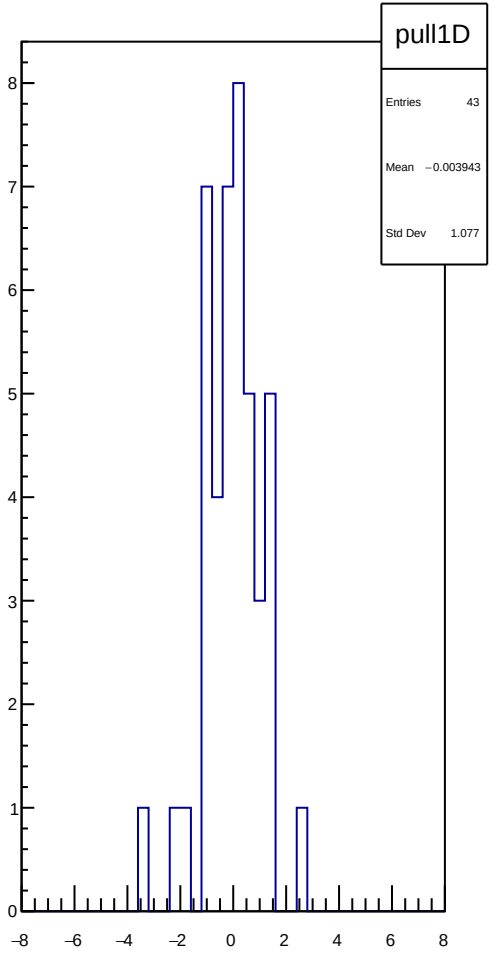

dit_asym_sam_15_dd_rms vs run
χ² / ndf 228.9 / 42
p0 95.22 ± 0.1024
99
98
97
96
95
94
93
92
91
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

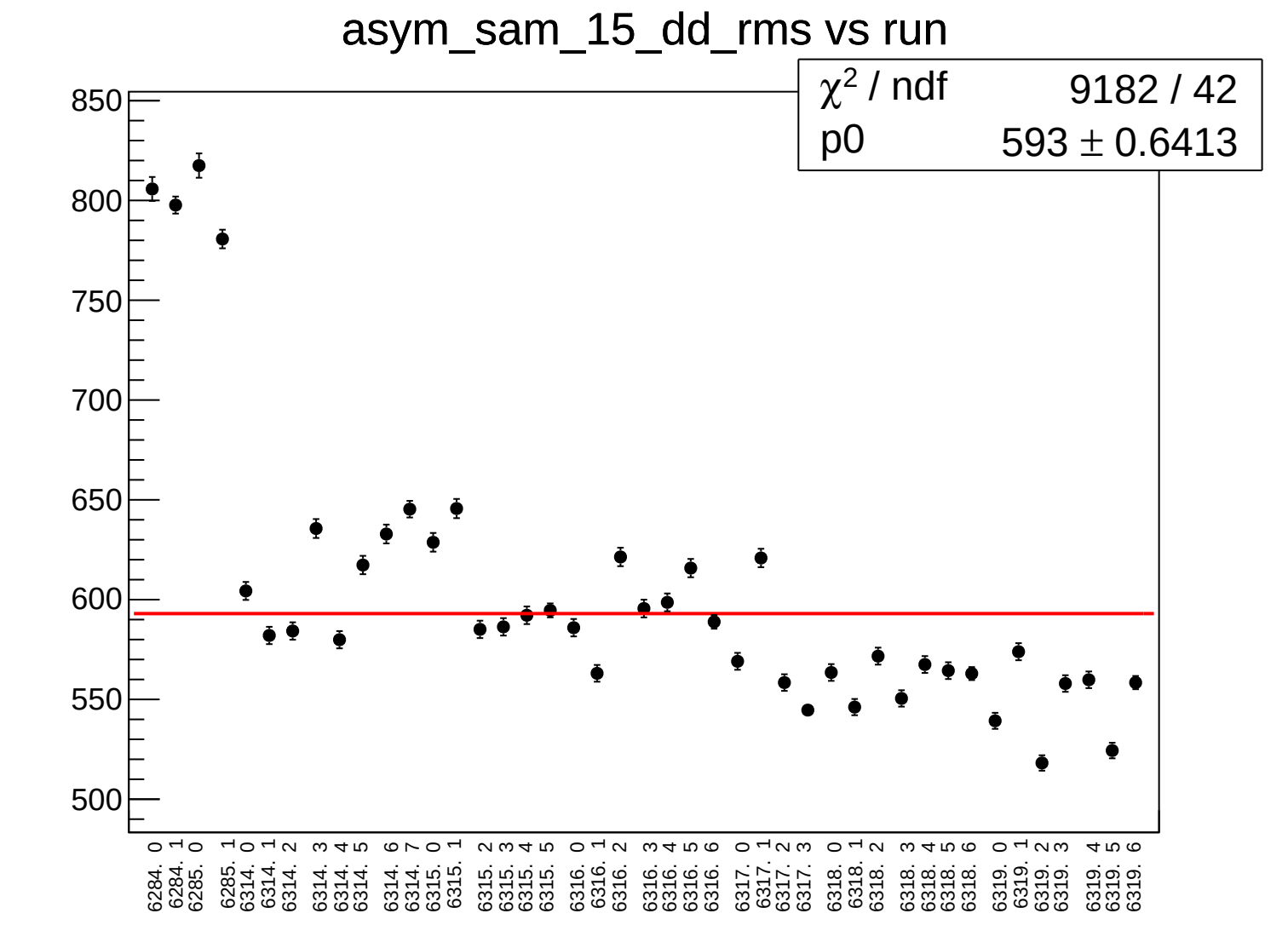

asym_sam_15_dd_correction_mean vs run
χ² / ndf 52.72 / 42
p0 1763 ± 921.2
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −74.61
Std Dev 93.1
3
2
1
0
−1
−2

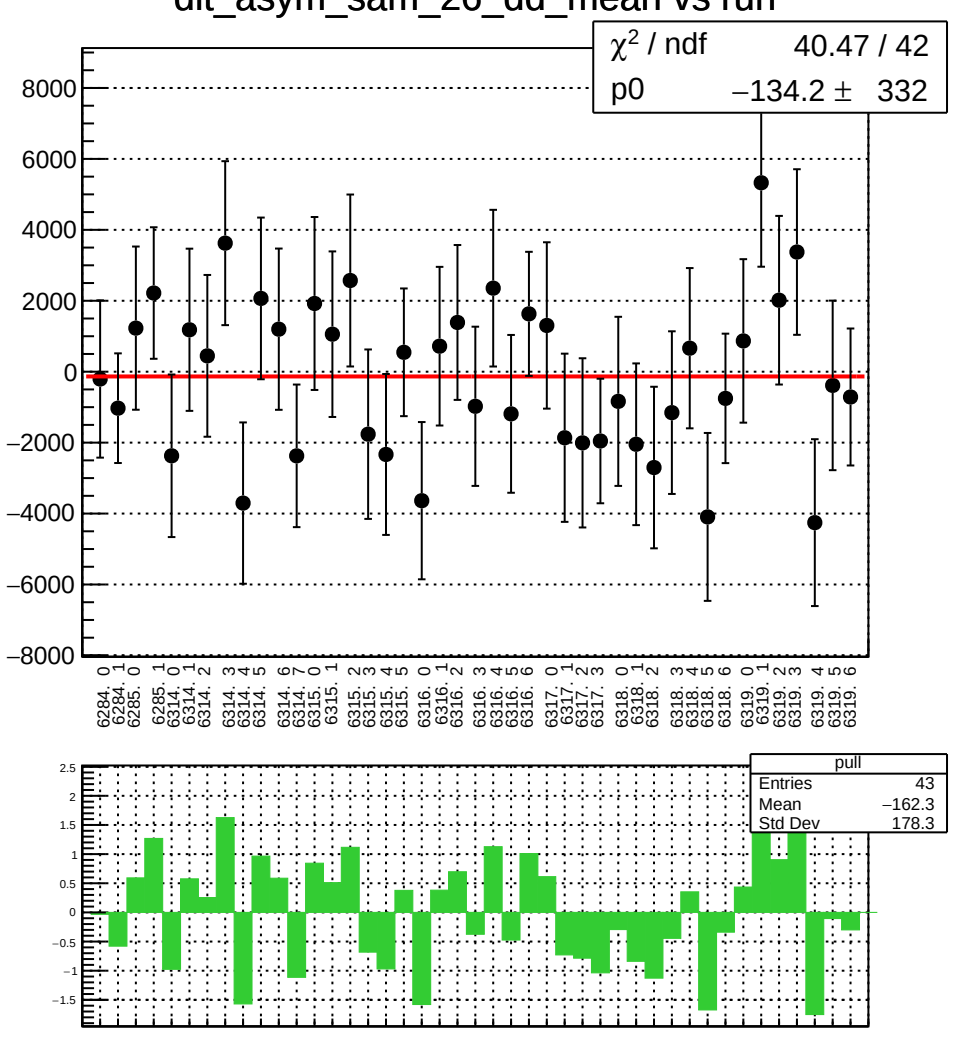

pull1D
Entries 43
Mean 0.007518
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

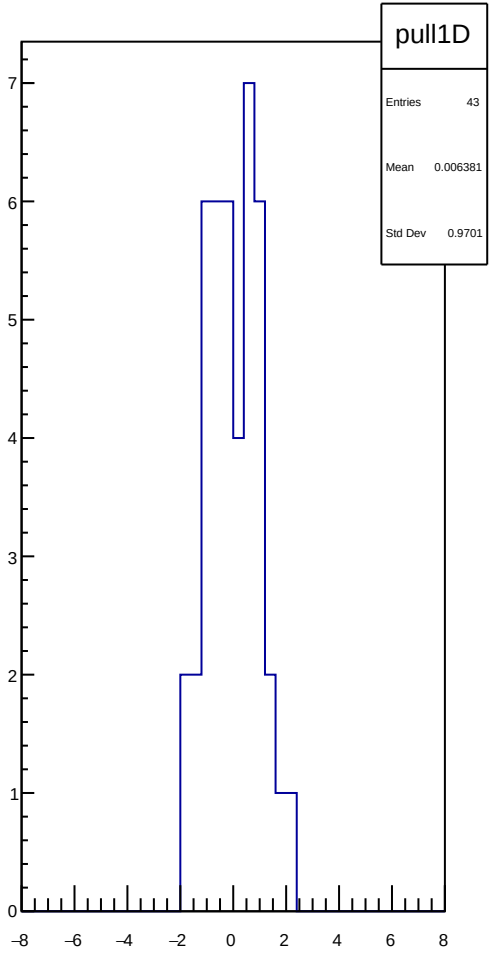

asym_sam_15_dd_correction_rms vs run
χ² / ndf 9141 / 42
p0 602.3 ± 0.6514
850
800
750
700
650
600
550
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

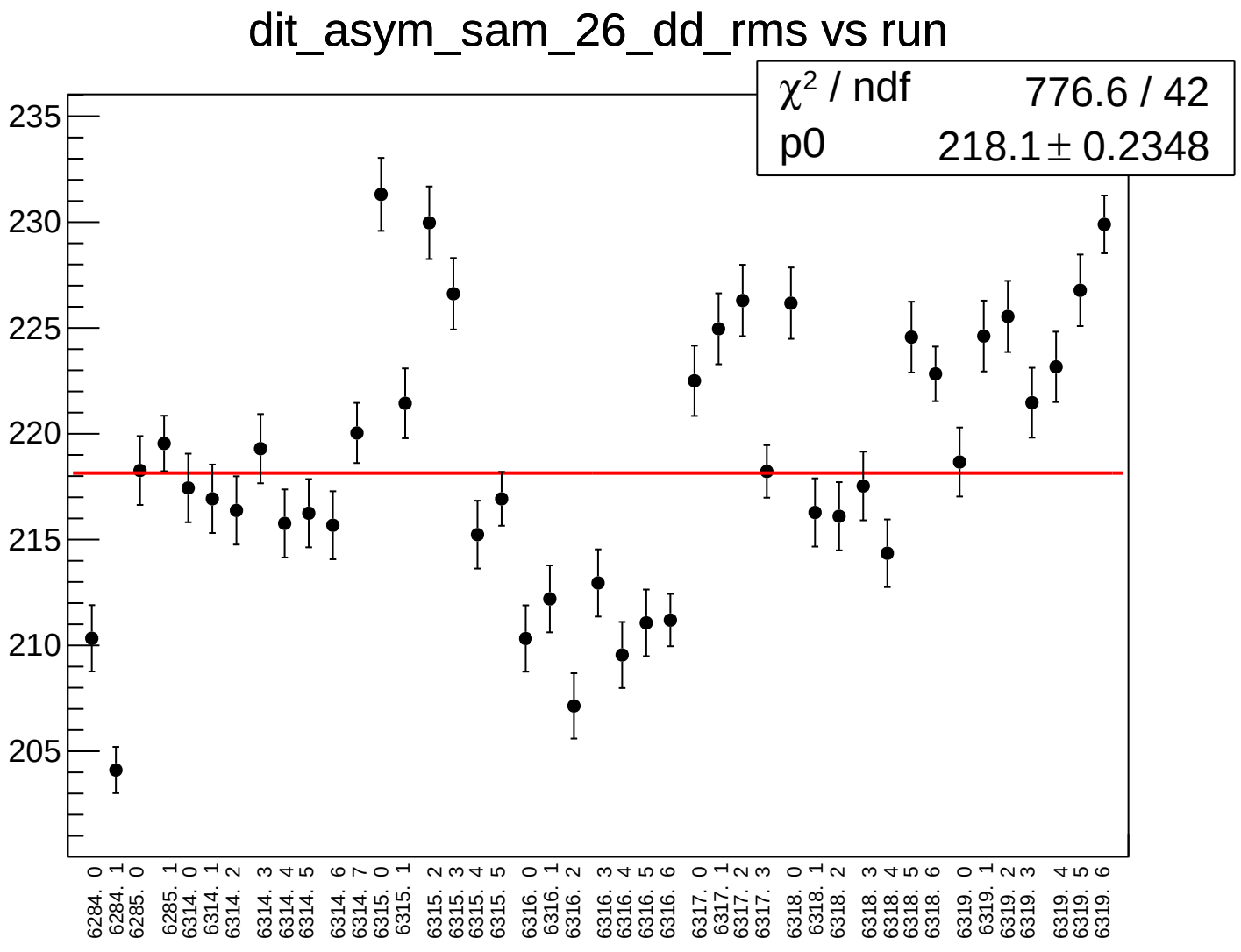

asym_sam_15_dd_mean vs run
χ² / ndf 49.92 / 42
p0 −1910 ± 907
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −88.38
Std Dev 106.2
3
2
1
0
−1
−2
−3

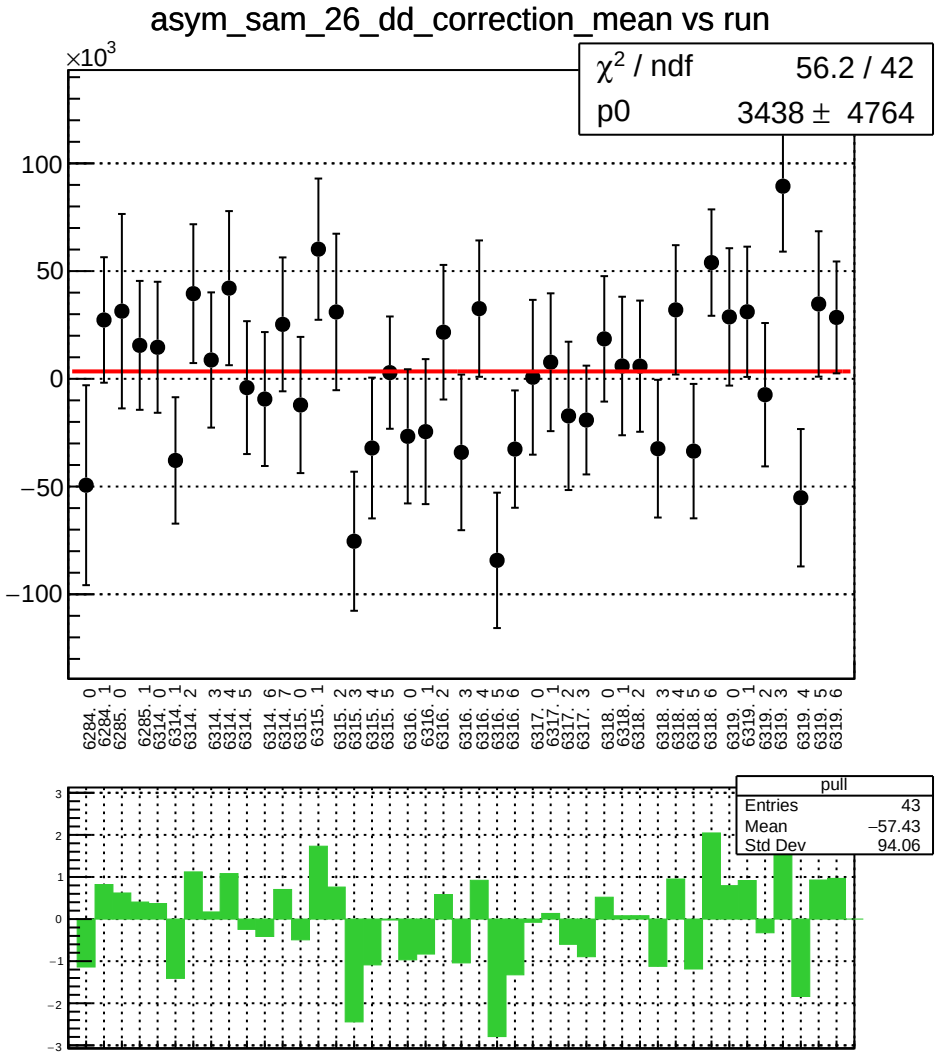

pull1D
Entries 43
Mean −0.003943
Std Dev 1.077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

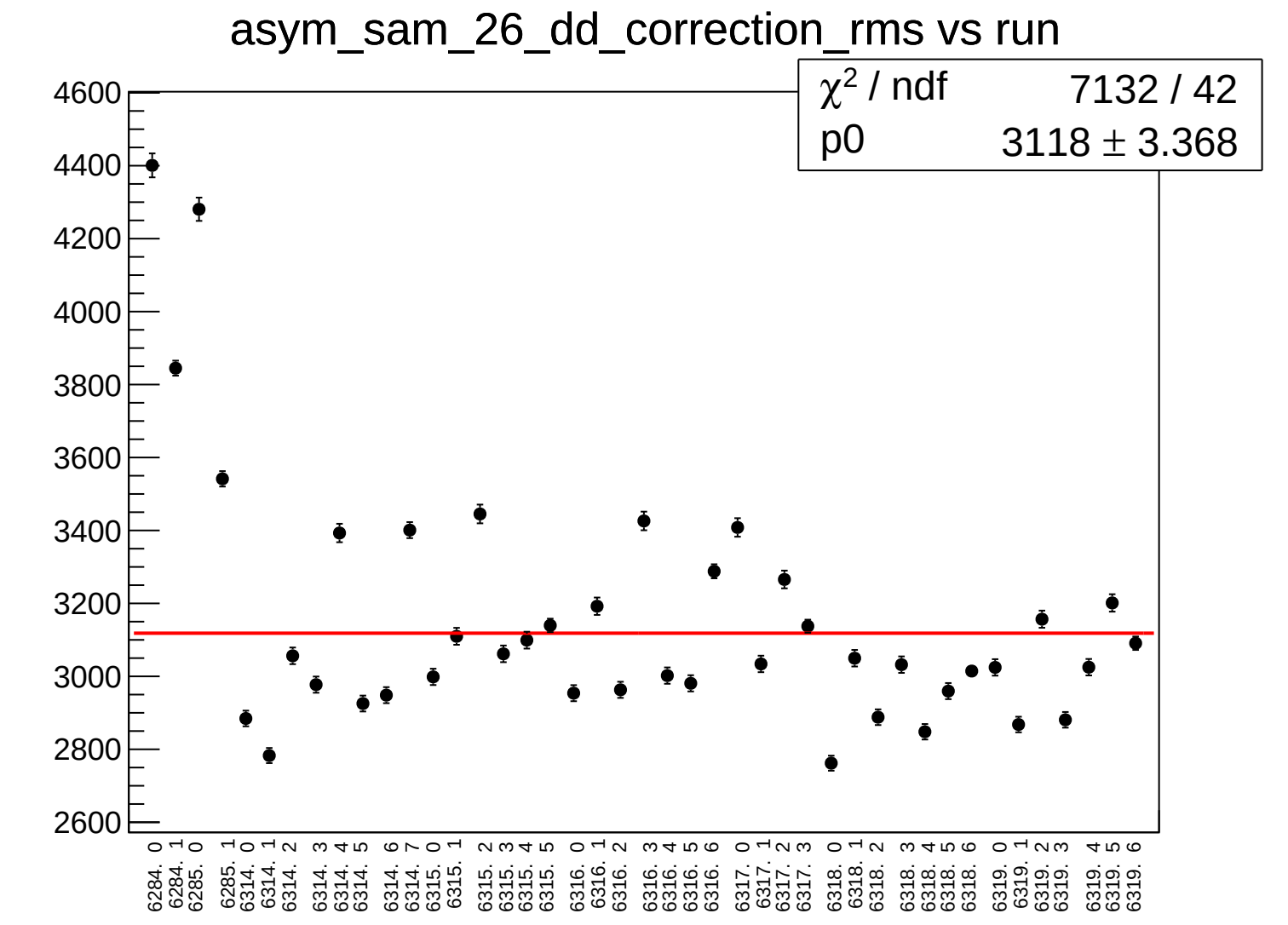

asym_sam_15_dd_rms vs run
χ^2 / ndf 9182 / 42
p0 593 ± 0.6413
850
800
750
700
650
600
550
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

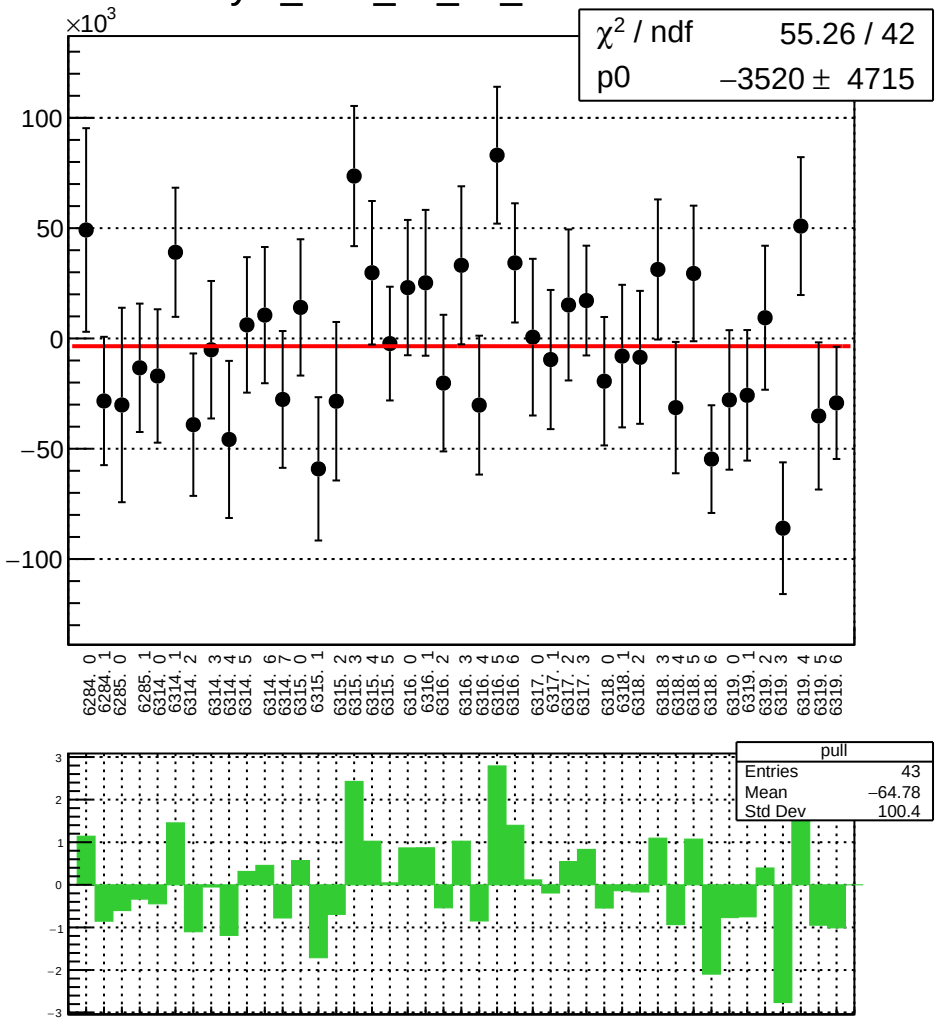

dit_asym_sam_26_dd_mean vs run
χ² / ndf 40.47 / 42
p0 −134.2 ± 332
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −162.3
Std Dev 178.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

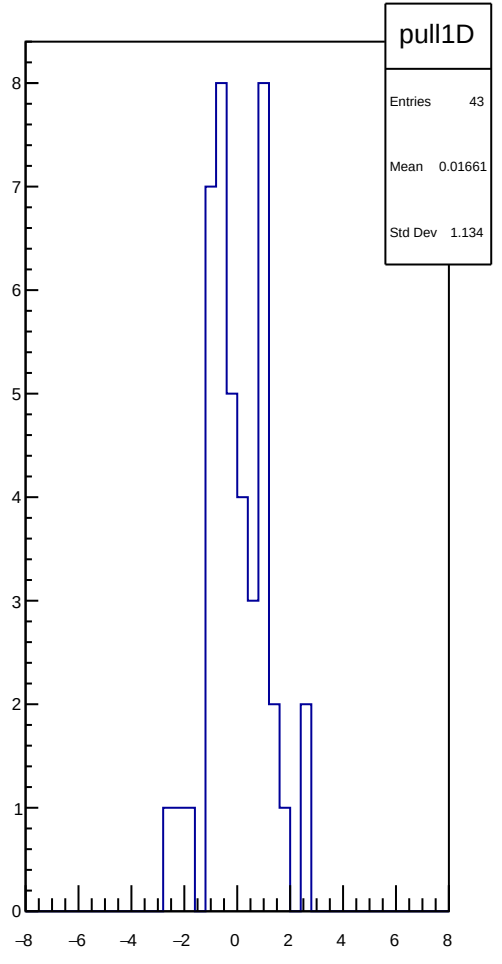

pull1D
Entries 43
Mean 0.006381
Std Dev 0.9701
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

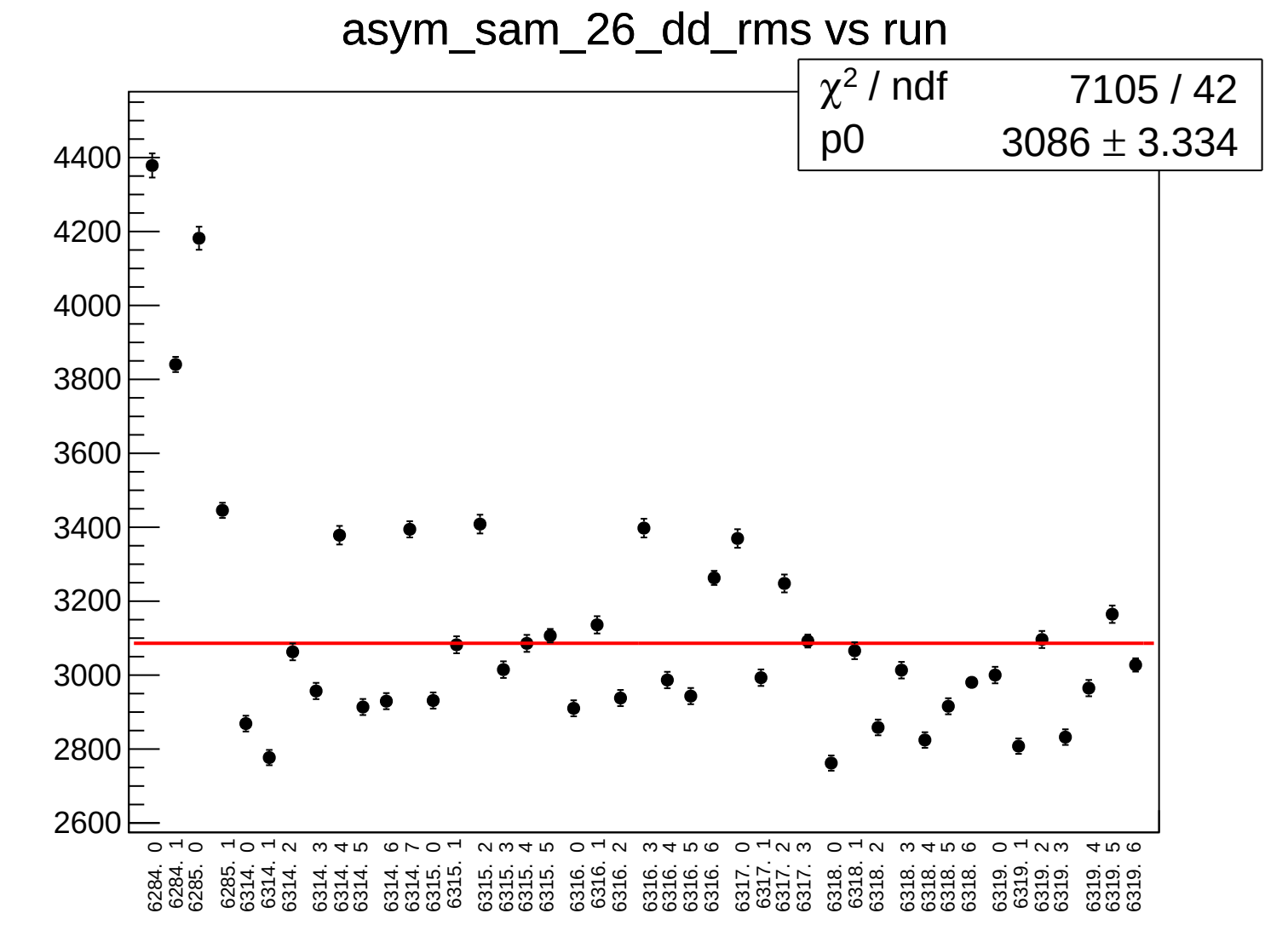

dit_asym_sam_26_dd_rms vs run
χ² / ndf 776.6 / 42
p0 218.1 ± 0.2348
235
230
225
220
215
210
205
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

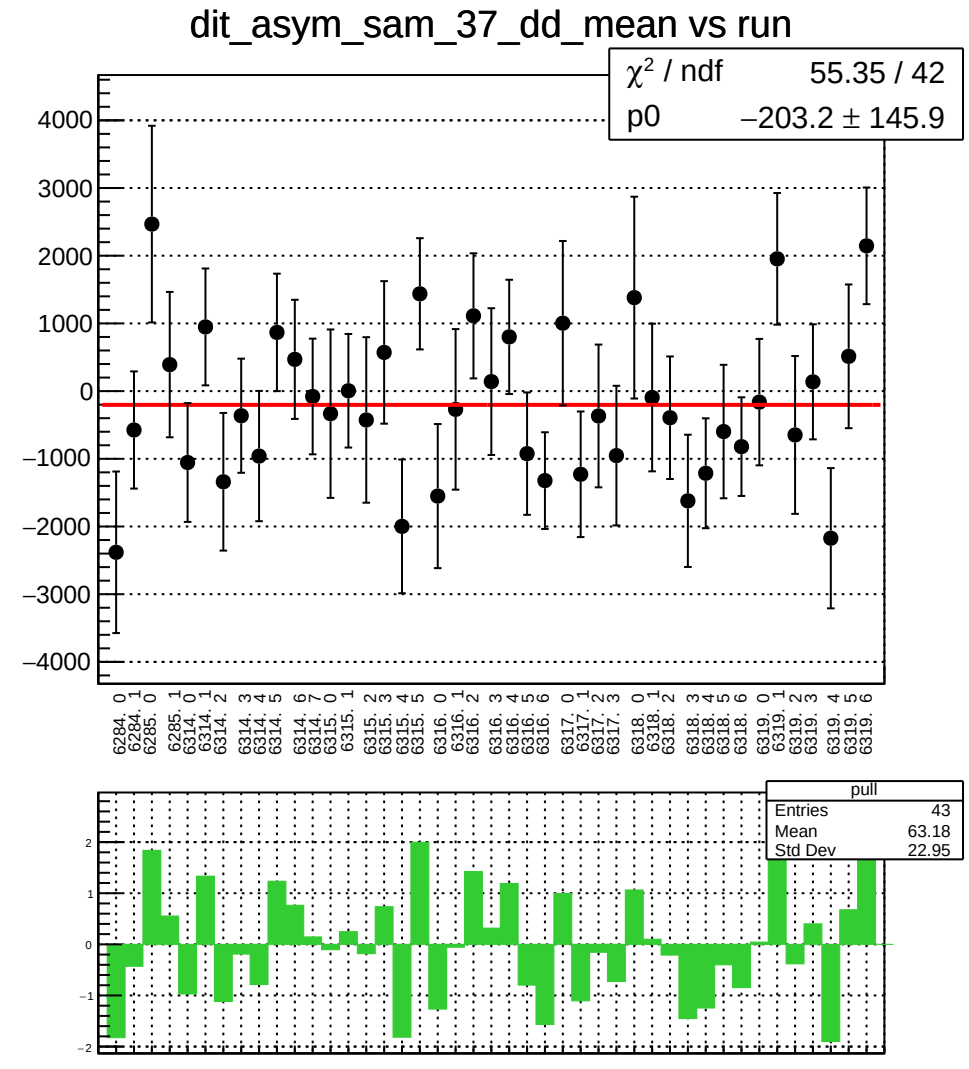

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 56.2 / 42
p0 3438 ± 4764
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −57.43
Std Dev 94.06
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01682
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

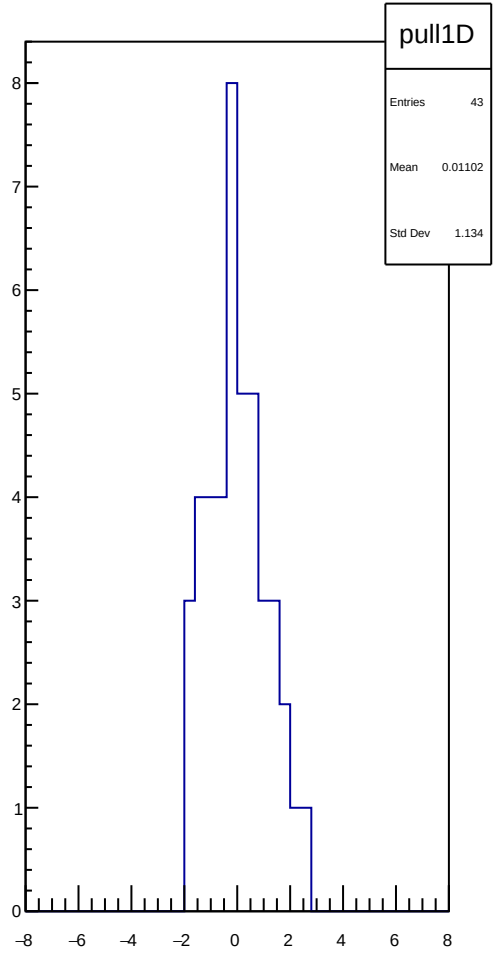

asym_sam_26_dd_correction_rms vs run
χ² / ndf 7132 / 42
p0 3118 ± 3.368
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

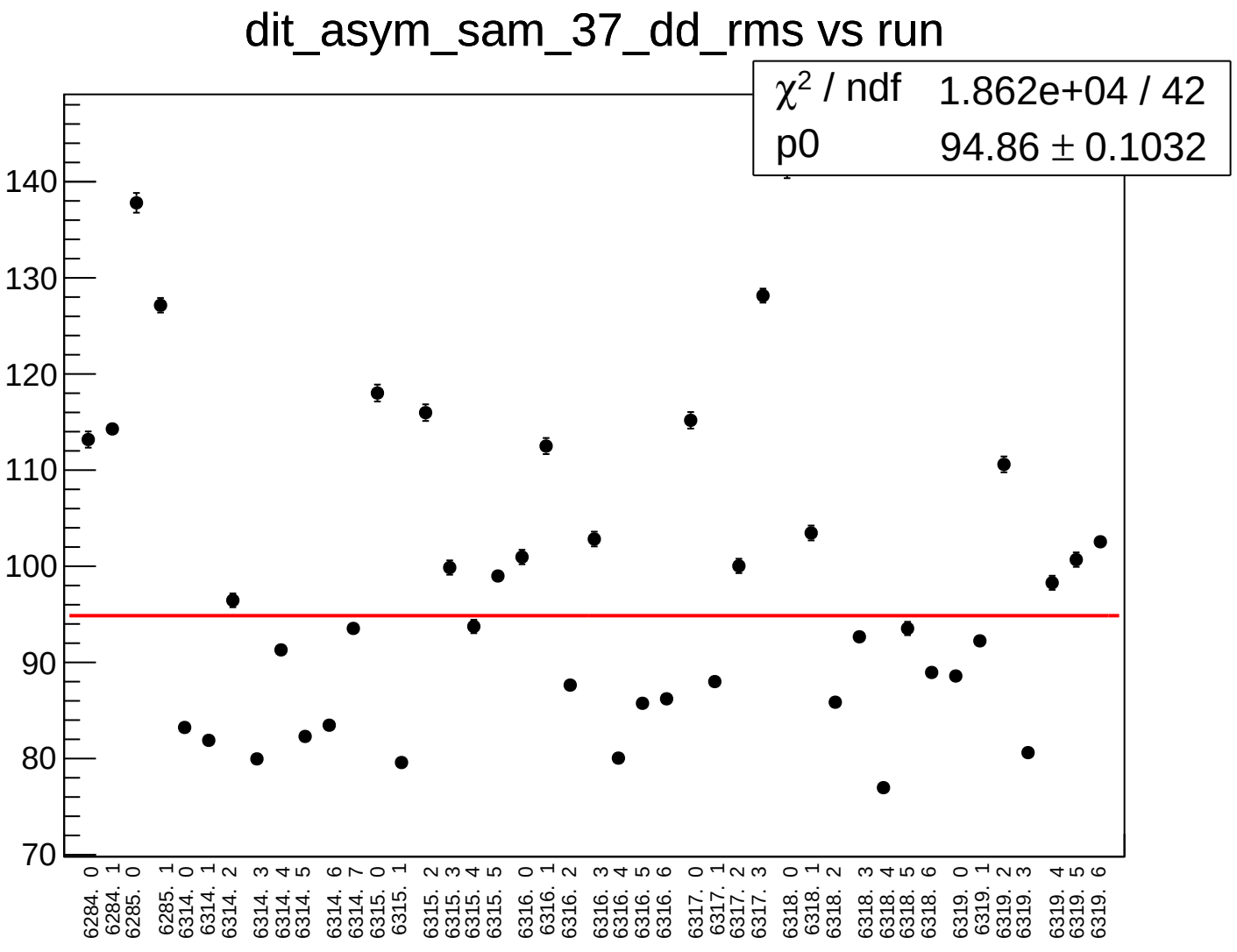

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 55.26 / 42
p0 −3520 ± 4715
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −64.78
Std Dev 100.4
3
2
1
0
−1
−2
−3

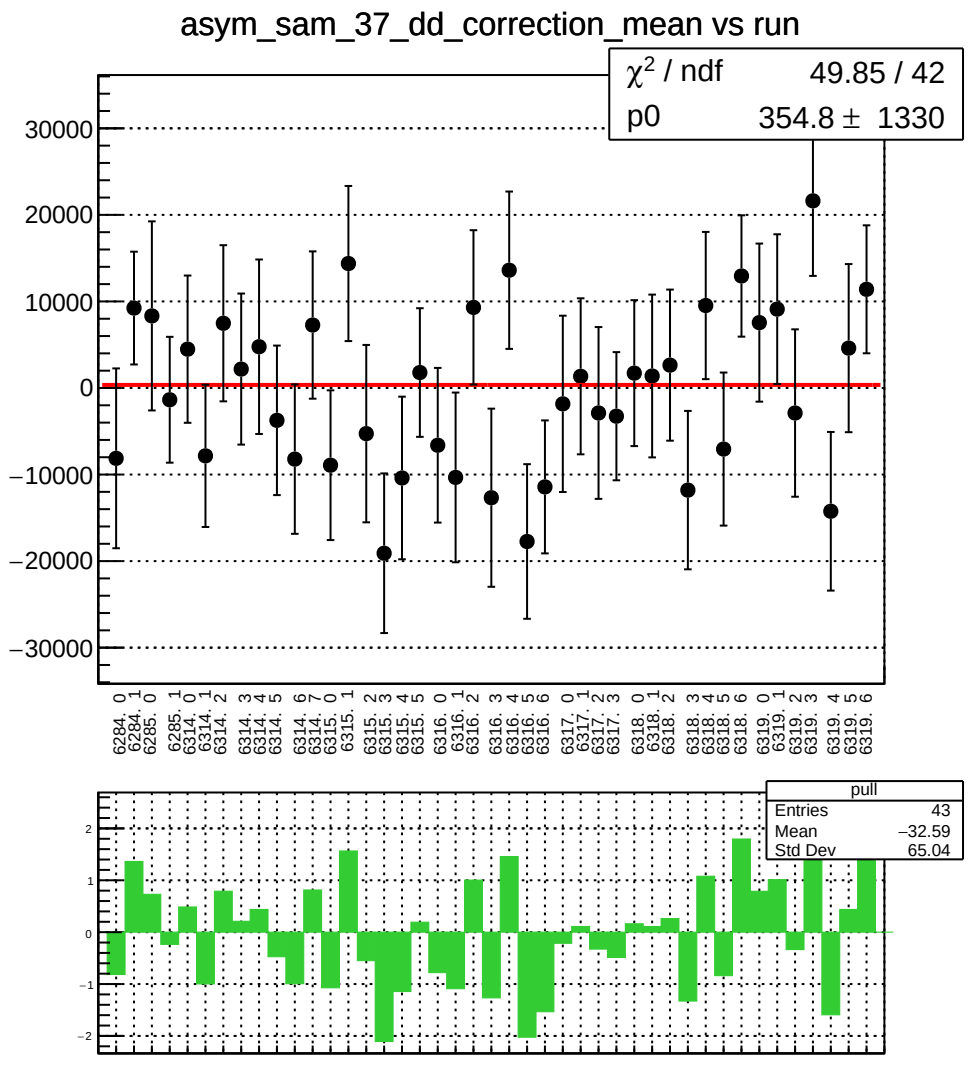

pull1D
Entries 43
Mean 0.01661
Std Dev 1.134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

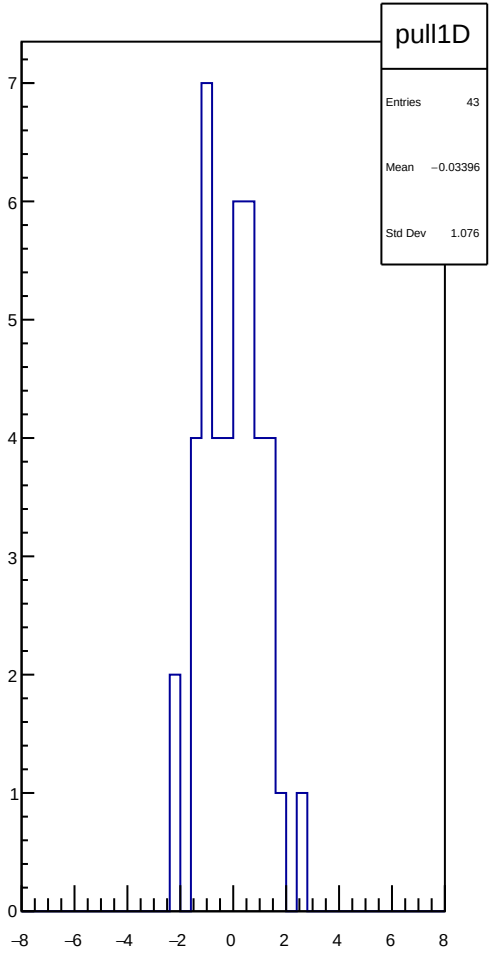

asym_sam_26_dd_rms vs run
χ^2 / ndf 7105 / 42
p0 3086 ± 3.334
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

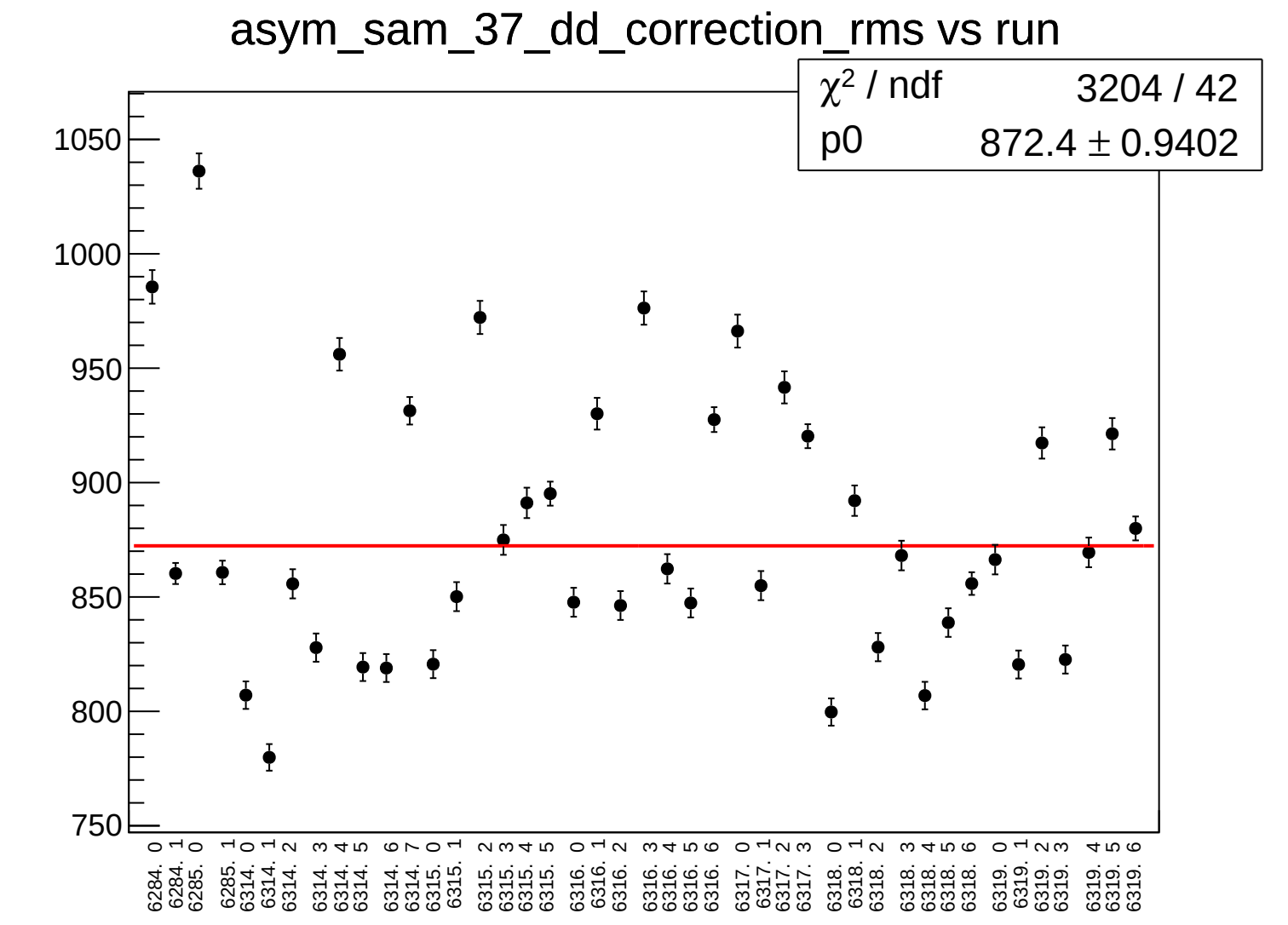

dit_asym_sam_37_dd_mean vs run
χ² / ndf 55.35 / 42
p0 −203.2 ± 145.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 63.18
Std Dev 22.95
2
1
0
−1
−2

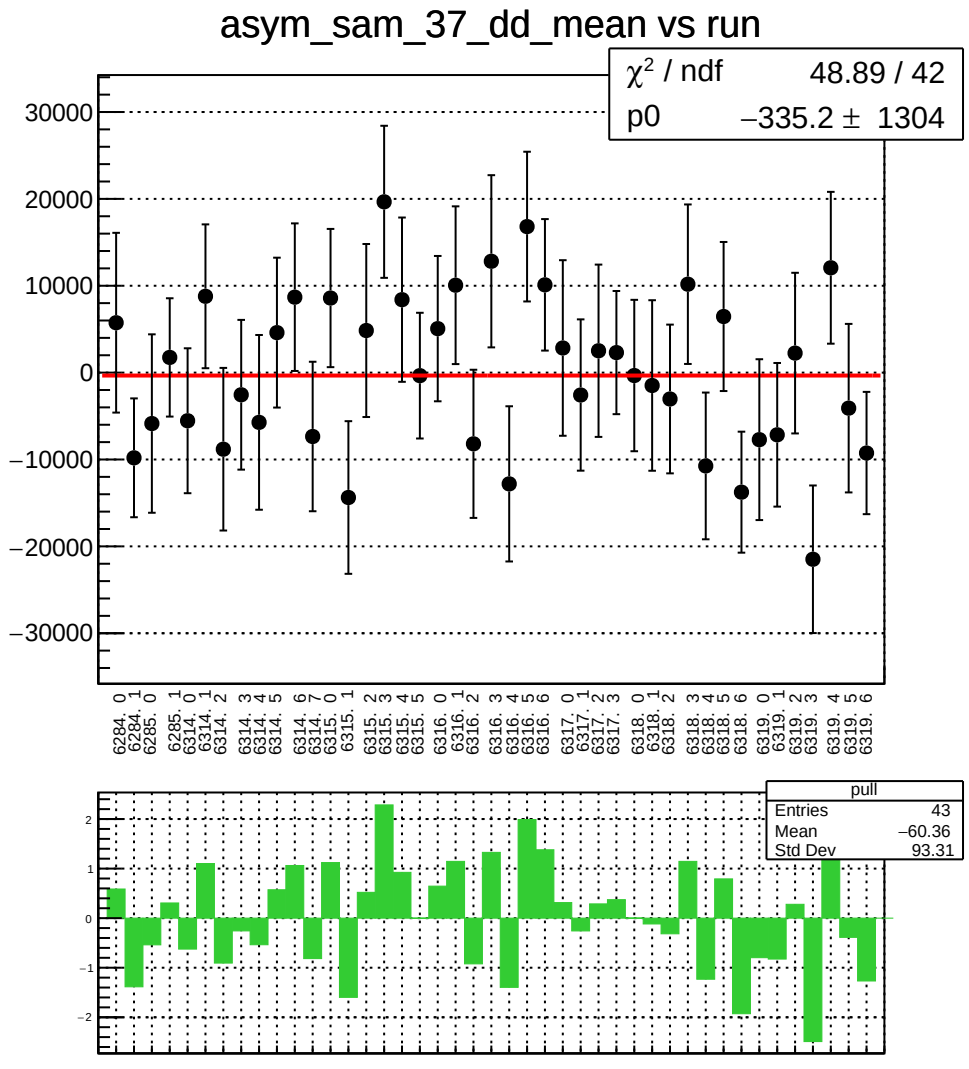

pull1D
Entries 43
Mean 0.01102
Std Dev 1.134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

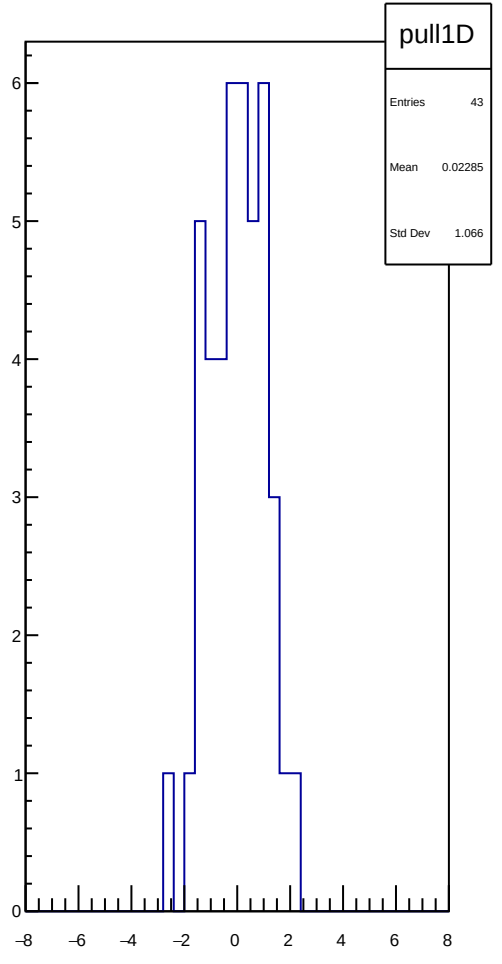

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.862e+04 / 42
p0 94.86 ± 0.1032
140
130
120
110
100
90
80
70
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

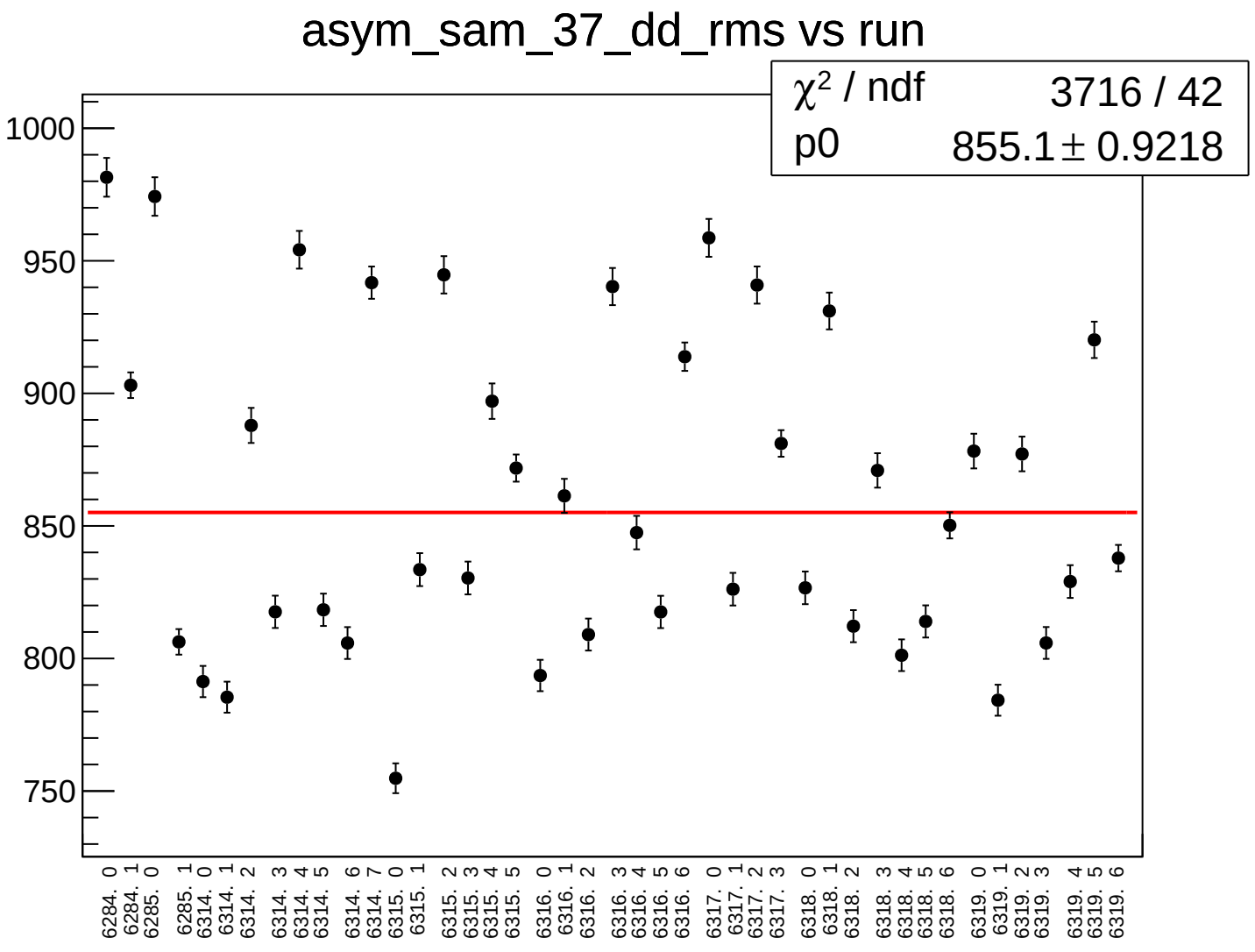

asym_sam_37_dd_correction_mean vs run
χ² / ndf 49.85 / 42
p0 354.8 ± 1330
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −32.59
Std Dev 65.04
2
1
0
−1
−2

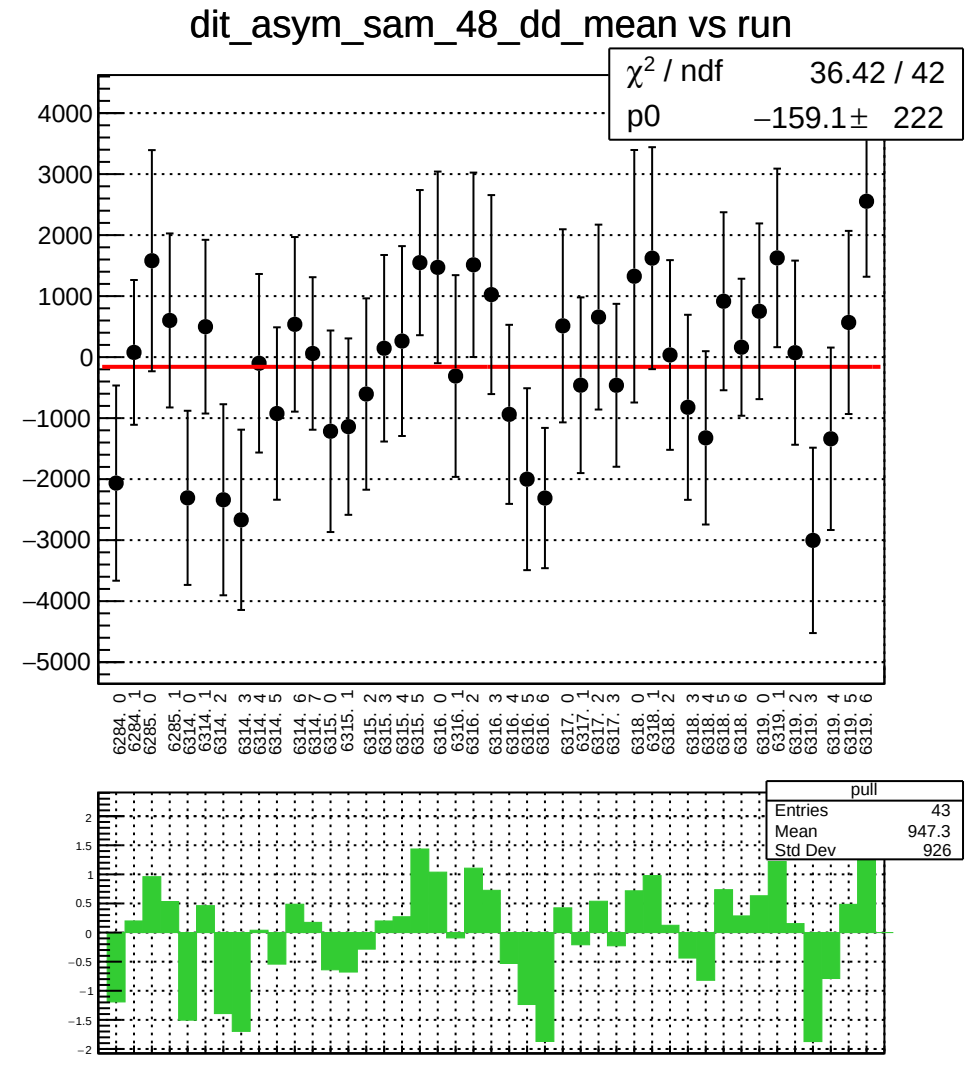

pull1D
Entries 43
Mean −0.03396
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

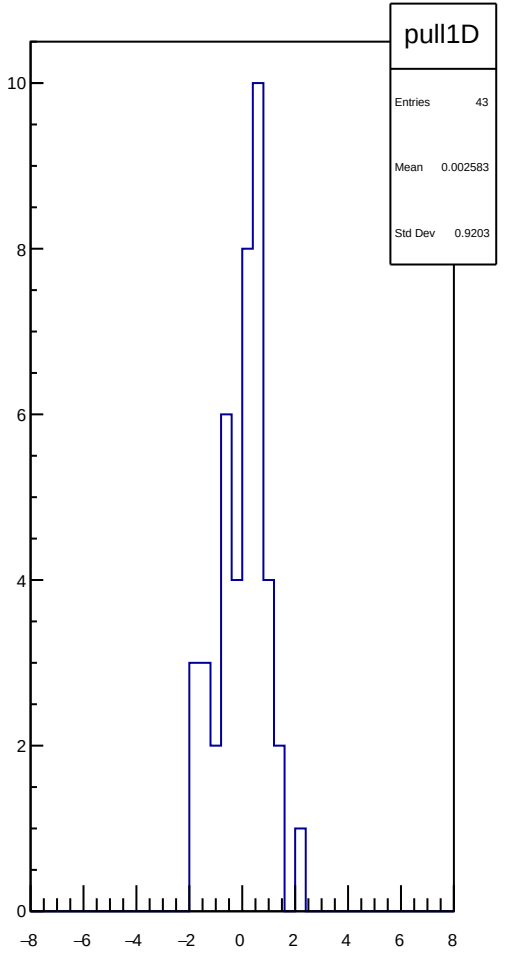

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3204 / 42
p0 872.4 ± 0.9402
1050
1000
950
900
850
800
750
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

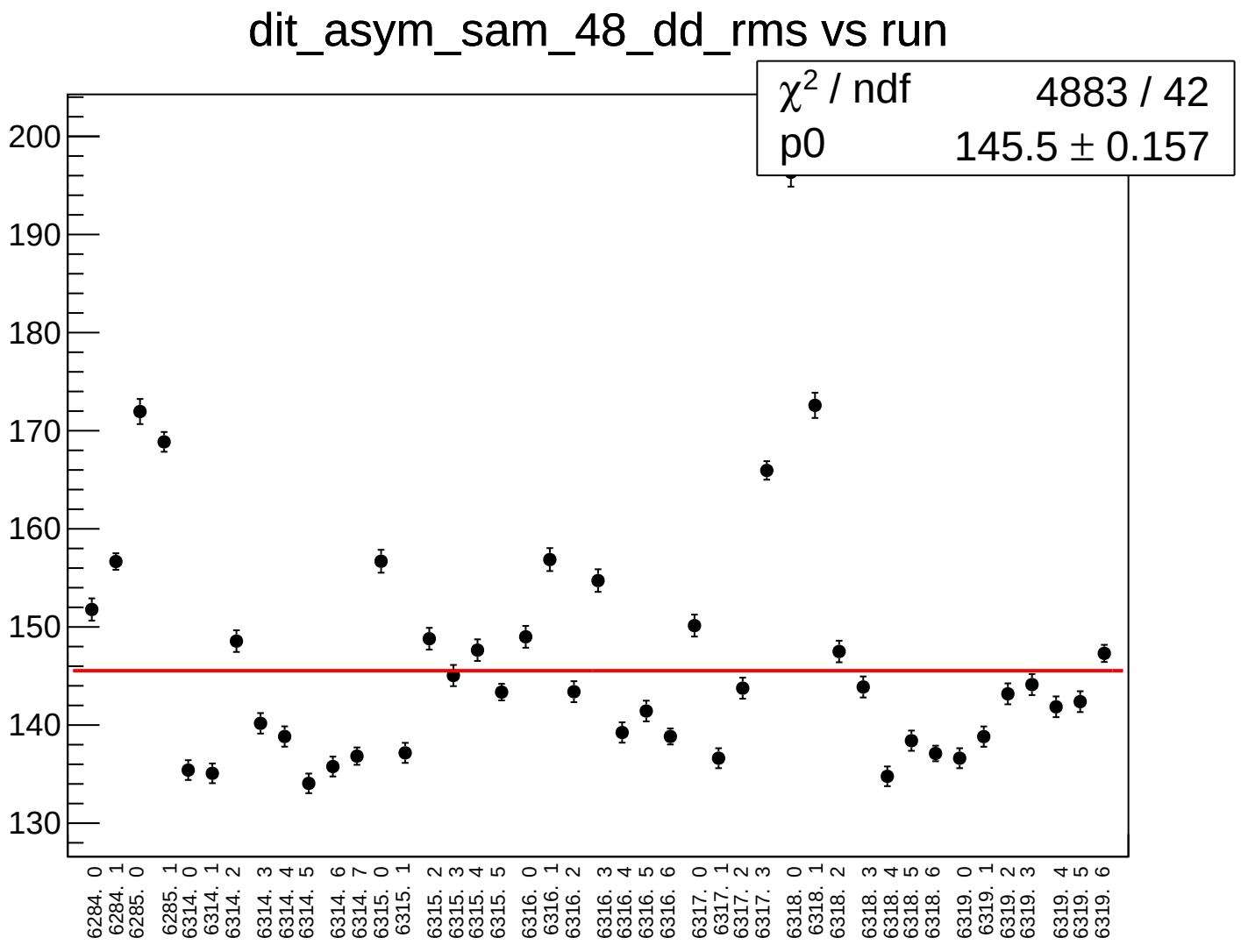

asym_sam_37_dd_mean vs run
χ² / ndf 48.89 / 42
p0 −335.2 ± 1304
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −60.36
Std Dev 93.31
2
1
0
−1
−2

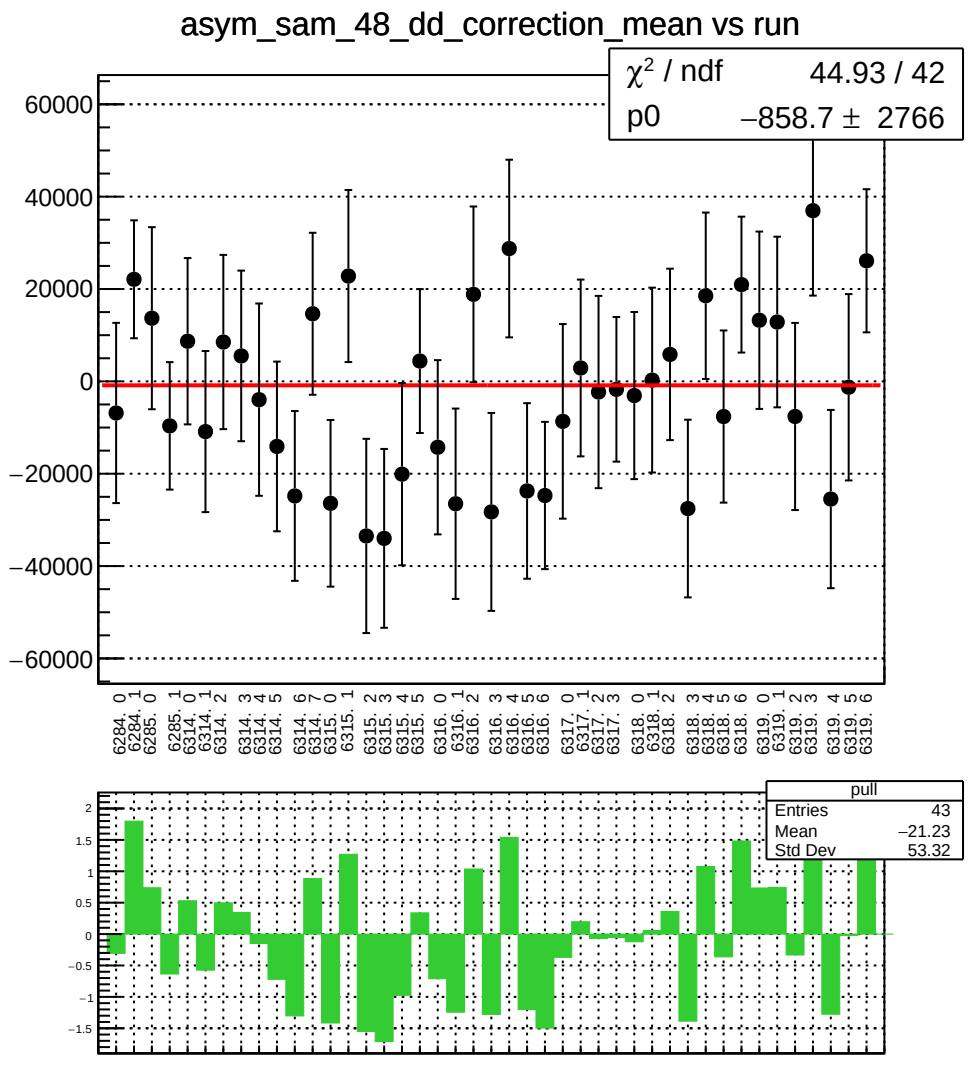

pull1D
Entries 43
Mean 0.02285
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

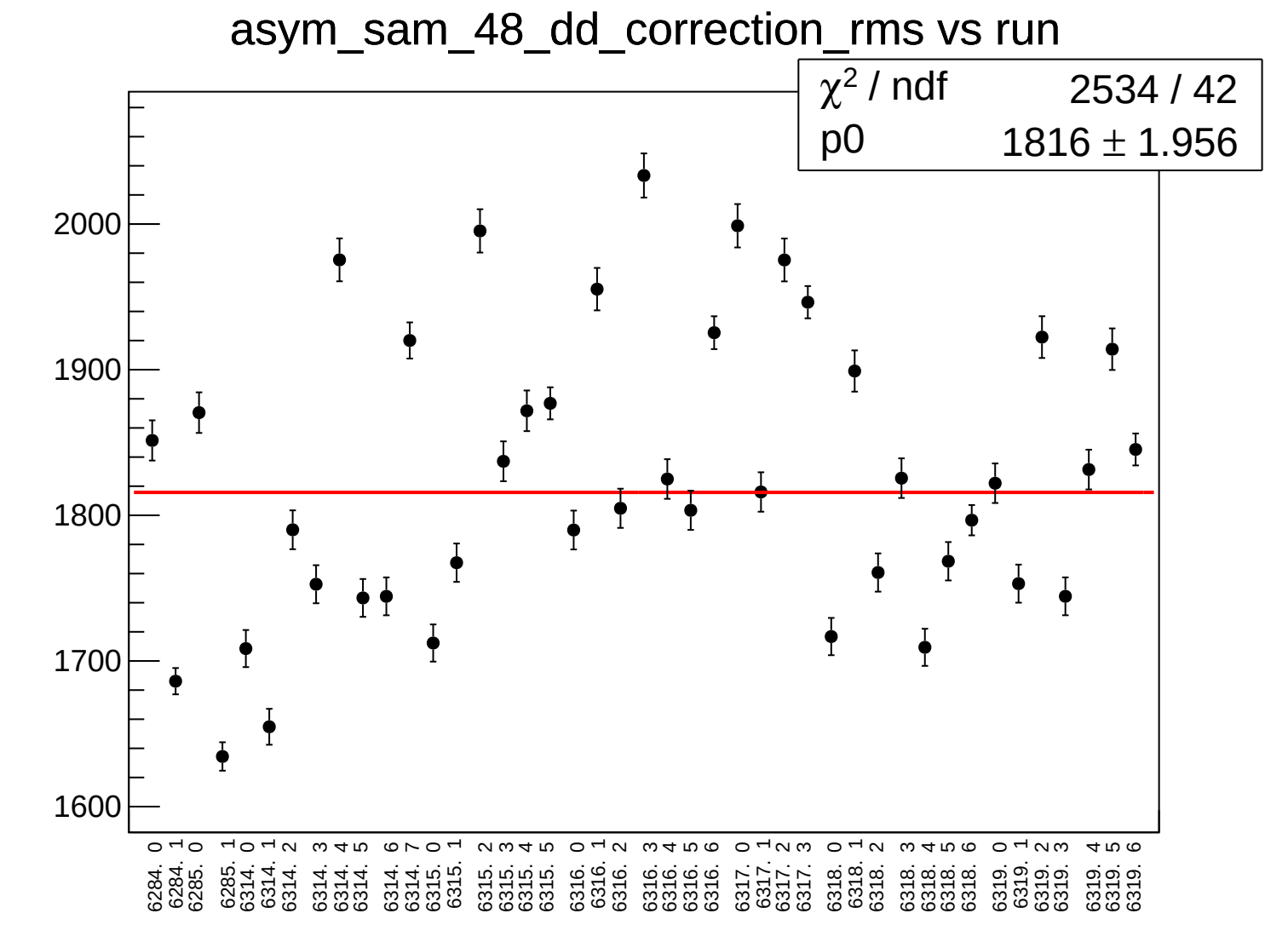

asym_sam_37_dd_rms vs run
χ² / ndf 3716 / 42
p0 855.1 ± 0.9218
1000
950
900
850
800
750
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

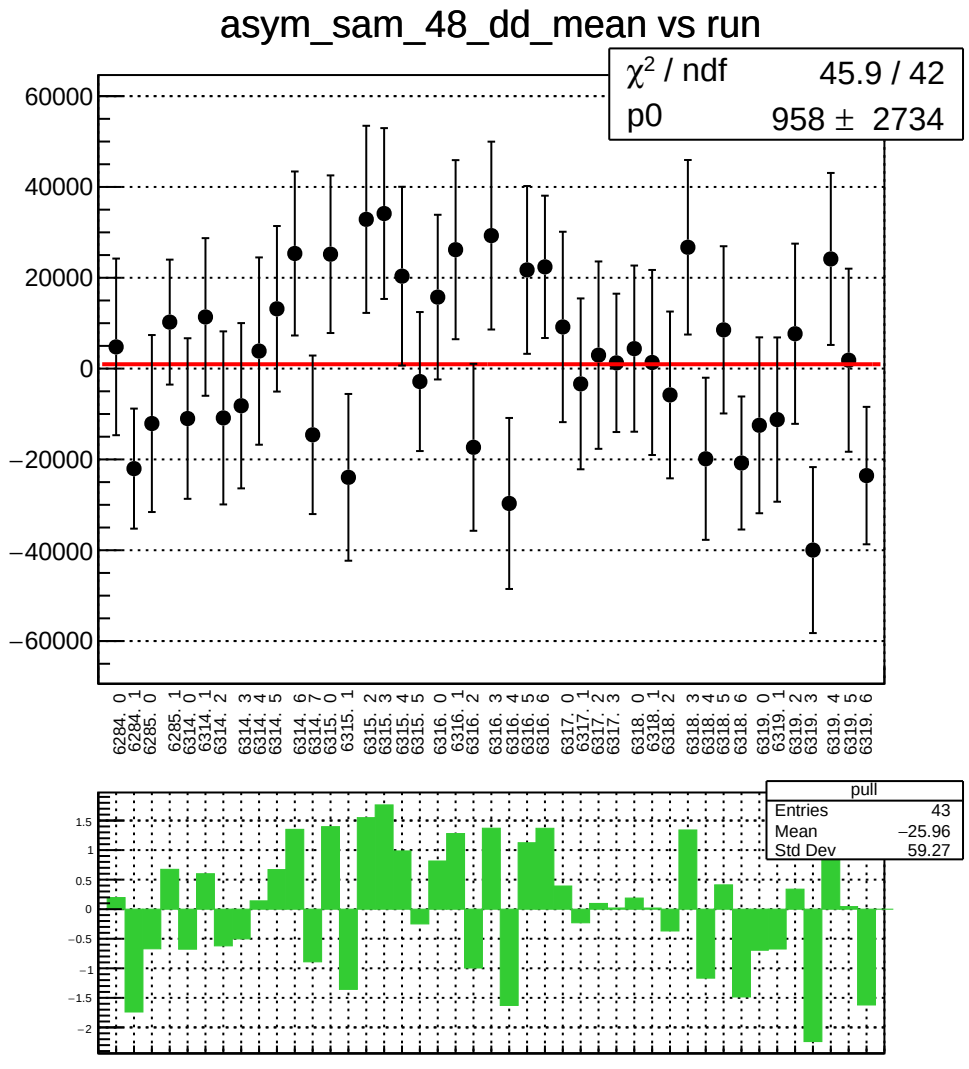

dit_asym_sam_48_dd_mean vs run
χ² / ndf 36.42 / 42
p0 −159.1± 222
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 947.3
Std Dev 926
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

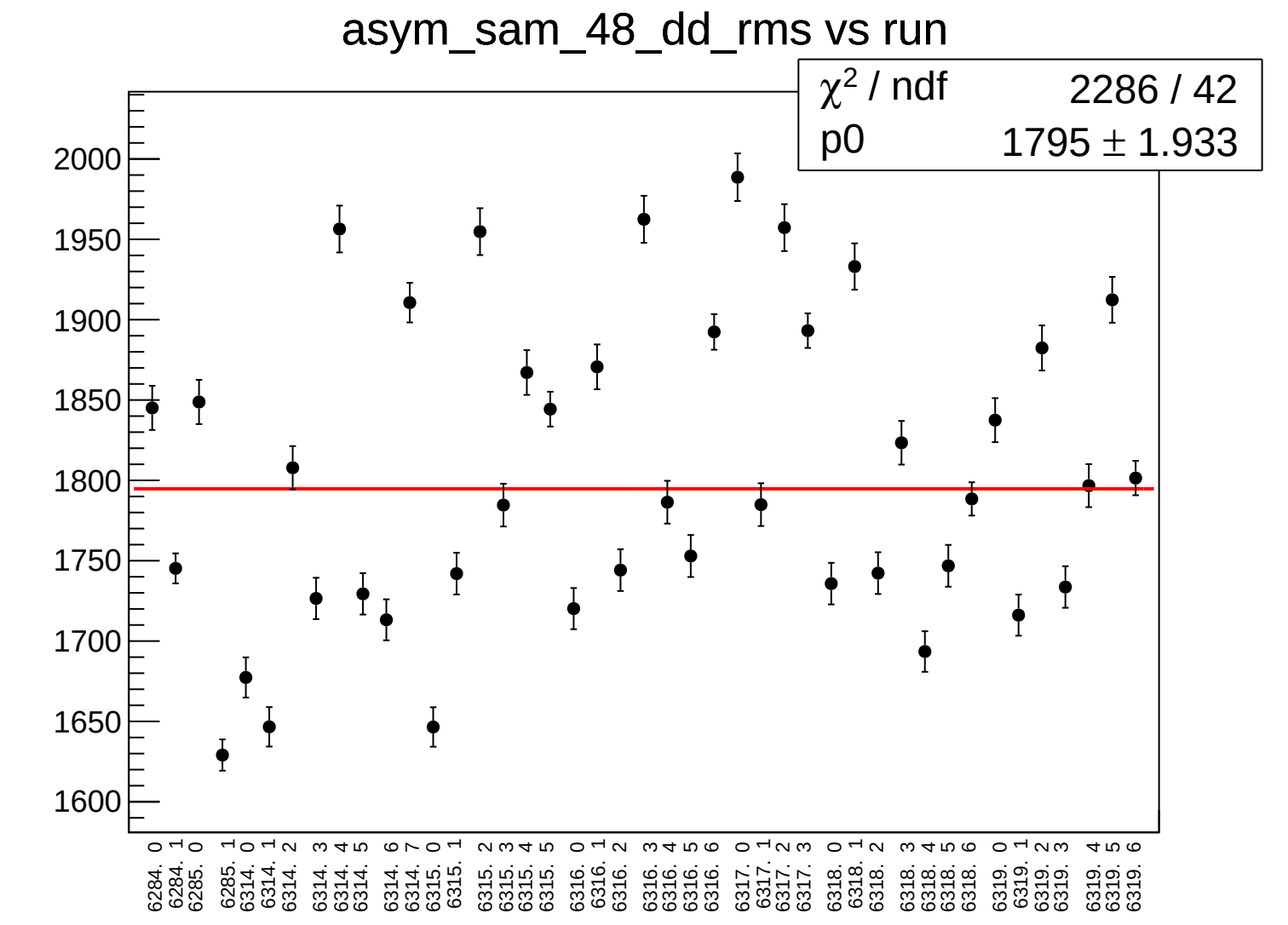

pull1D
Entries 43
Mean 0.002583
Std Dev 0.9203
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

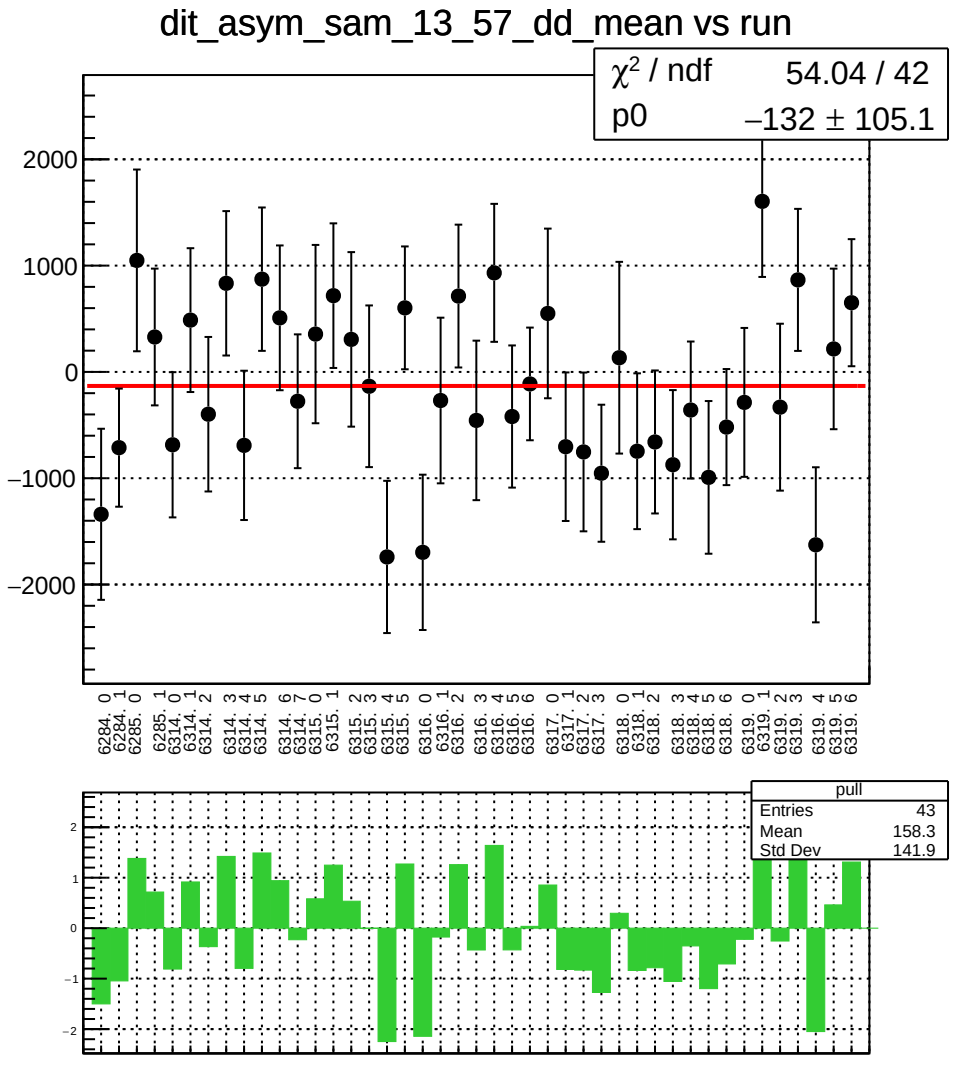

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4883 / 42
p0 145.5 ± 0.157
200
190
180
170
160
150
140
130
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

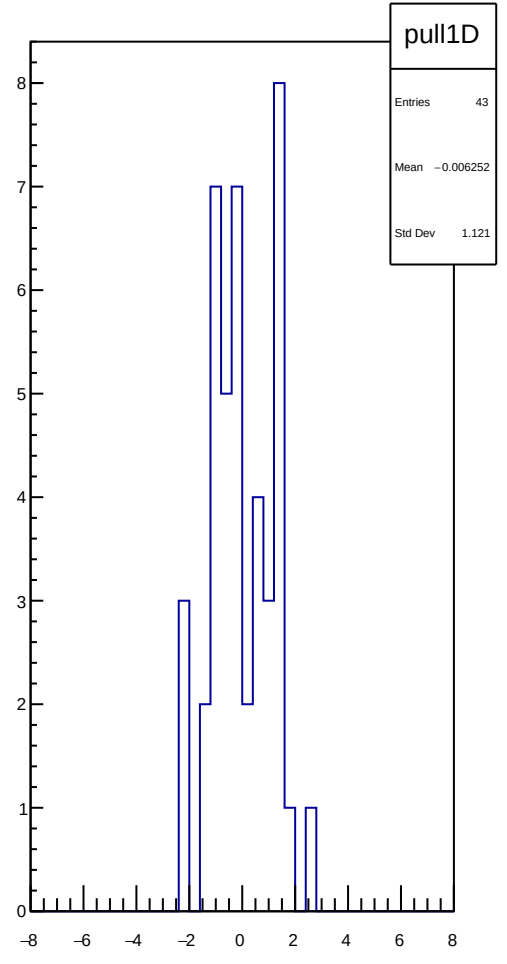

asym_sam_48_dd_correction_mean vs run
χ² / ndf 44.93 / 42
p0 −858.7 ± 2766
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −21.23
Std Dev 53.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.043
Std Dev 1.021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

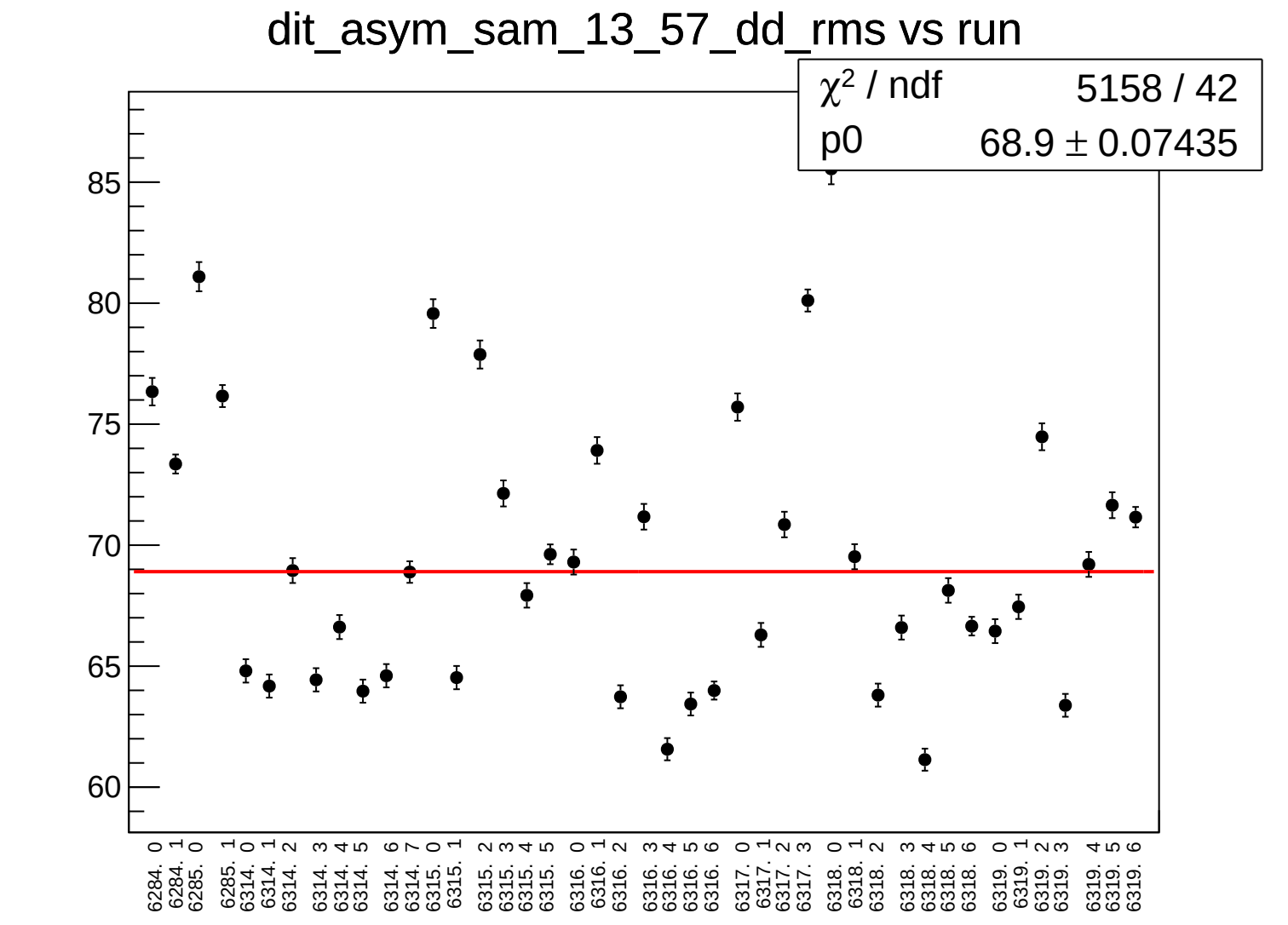

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2534 / 42
p0 1816 ± 1.956
2000
1900
1800
1700
1600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

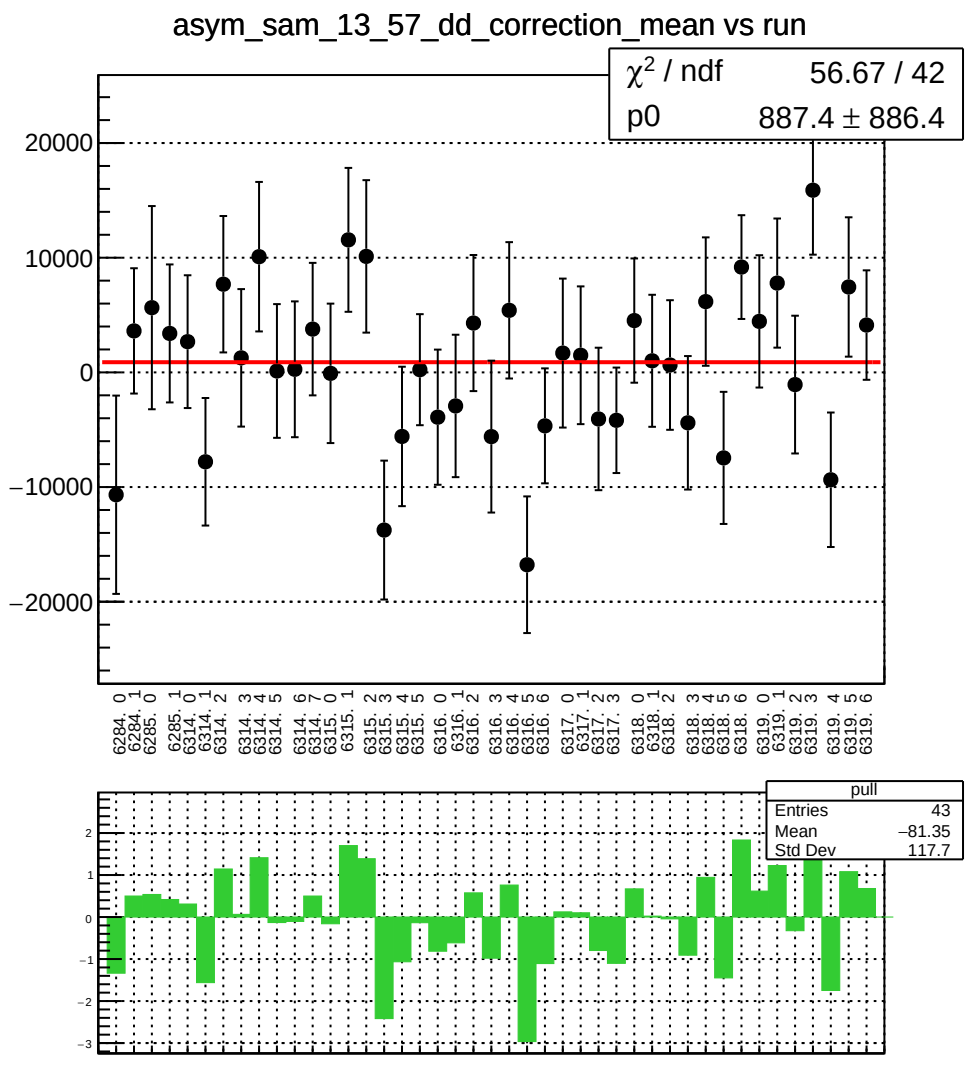

asym_sam_48_dd_mean vs run
χ² / ndf 45.9 / 42
p0 958 ± 2734
60000
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −25.96
Std Dev 59.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03621
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

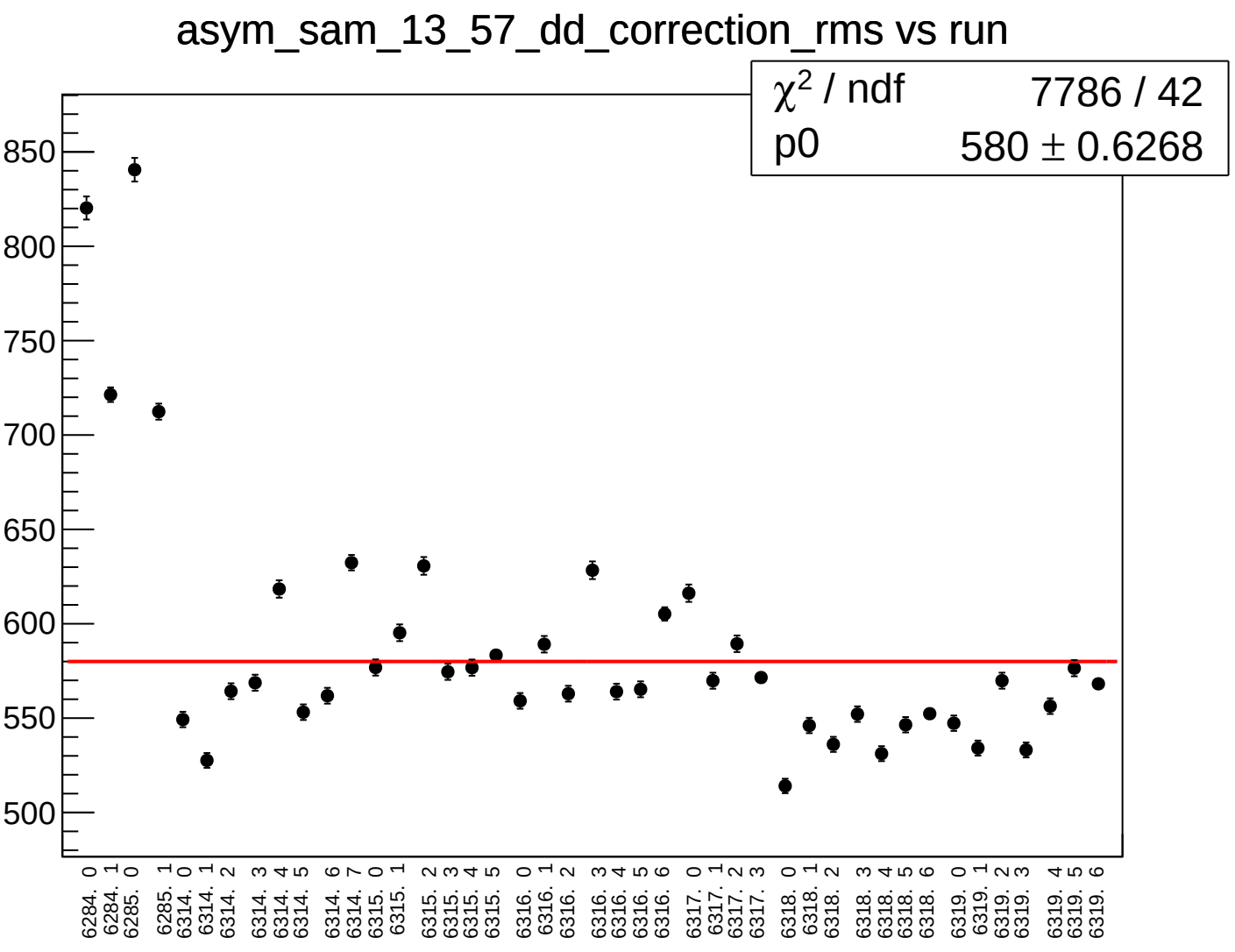

asym_sam_48_dd_rms vs run
χ² / ndf 2286 / 42
p0 1795 ± 1.933
2000
1950
1900
1850
1800
1750
1700
1650
1600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

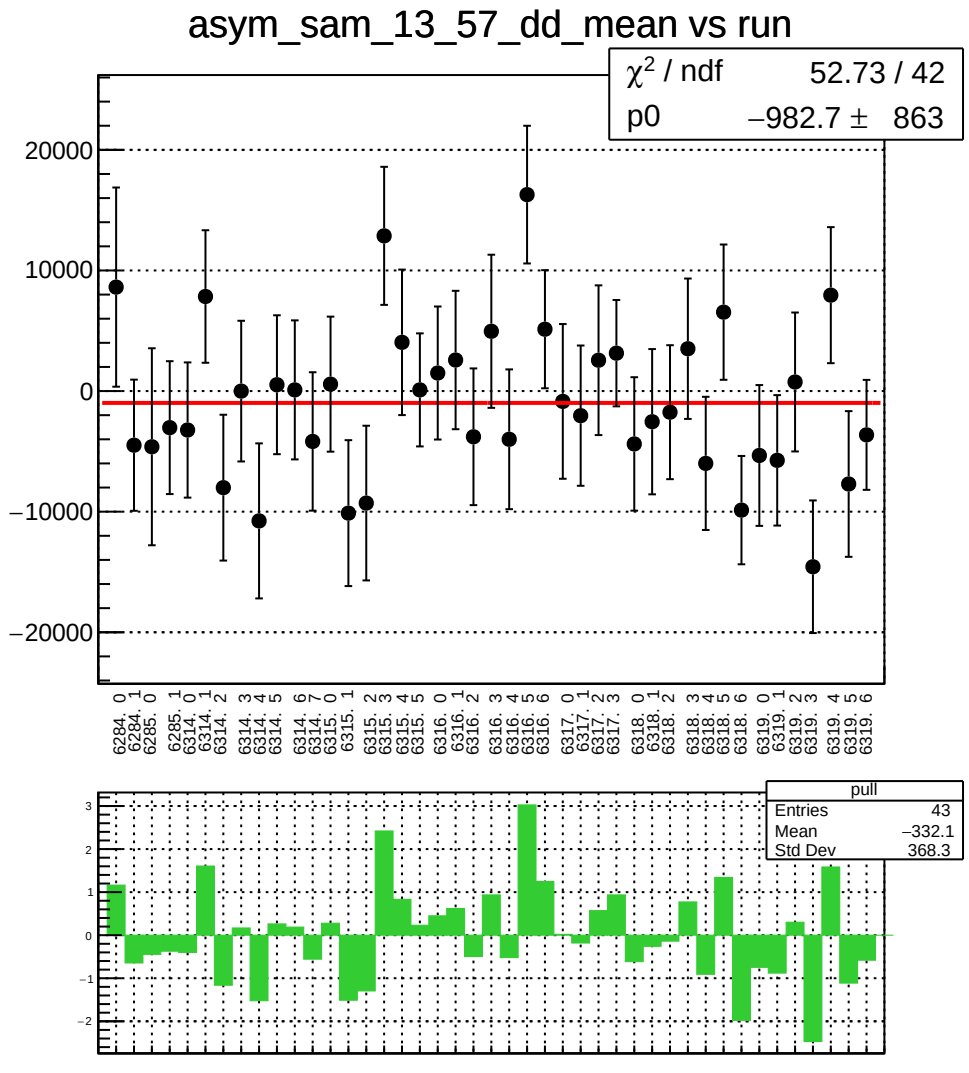

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 54.04 / 42
p0 −132 ± 105.1
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 158.3
Std Dev 141.9
2
1
0
−1
−2

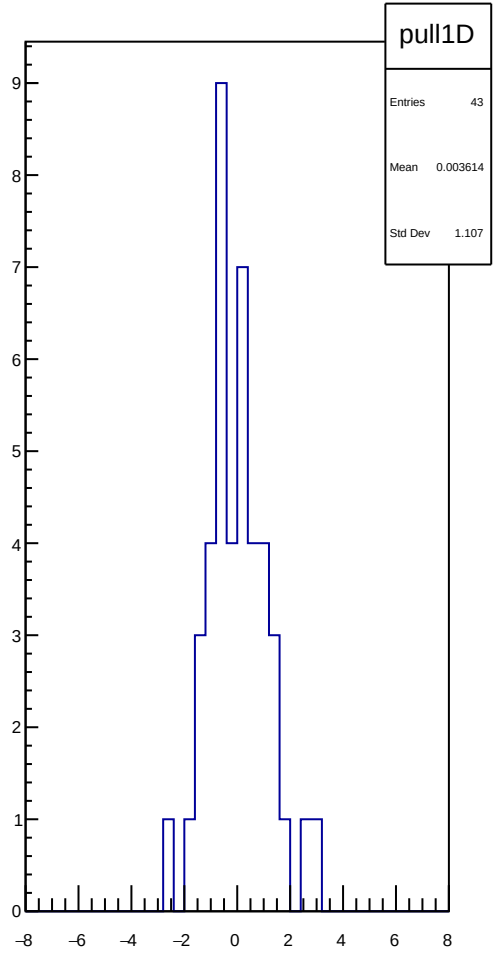

pull1D
Entries 43
Mean −0.006252
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

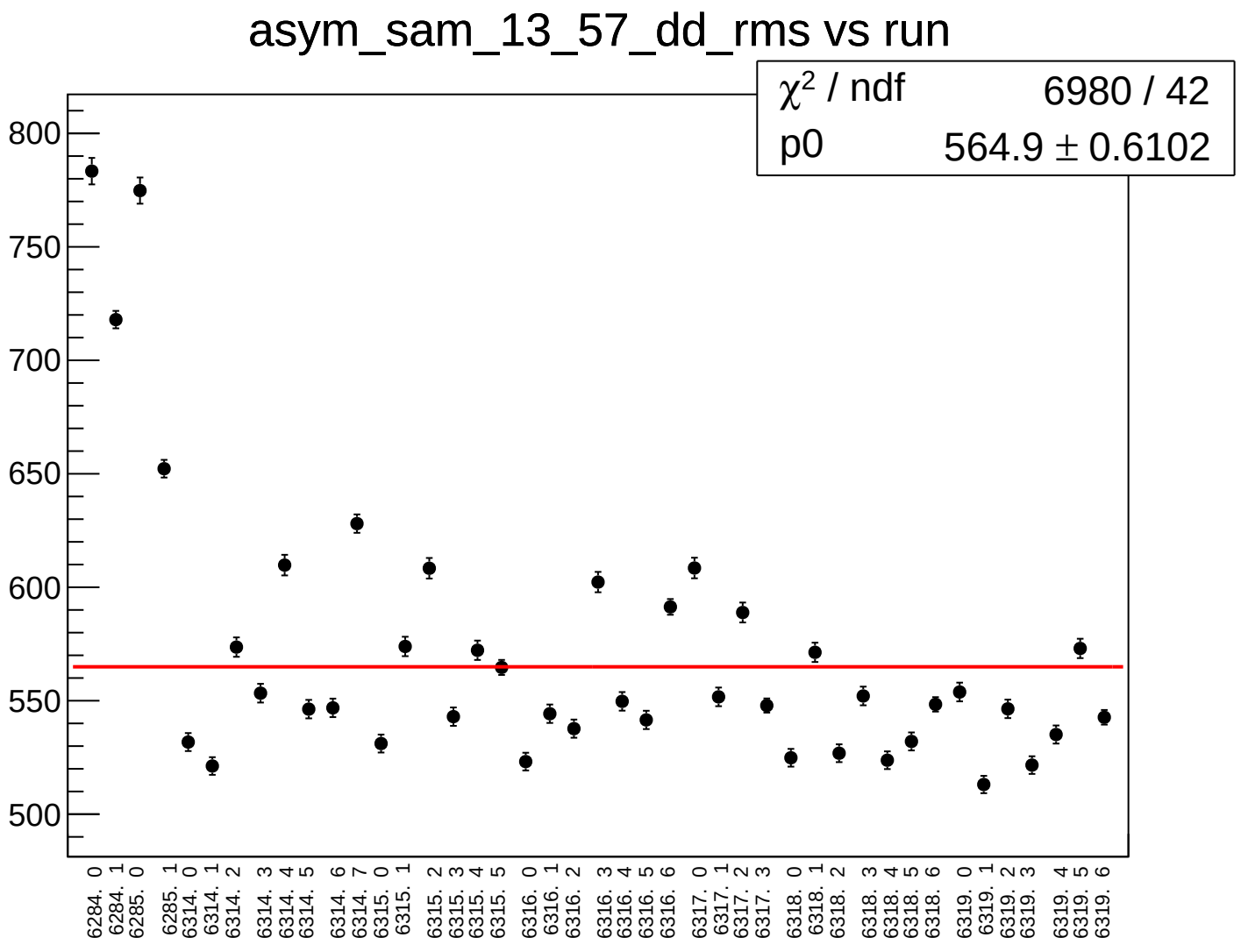

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 5158 / 42
p0 68.9 ± 0.07435
85
80
75
70
65
60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

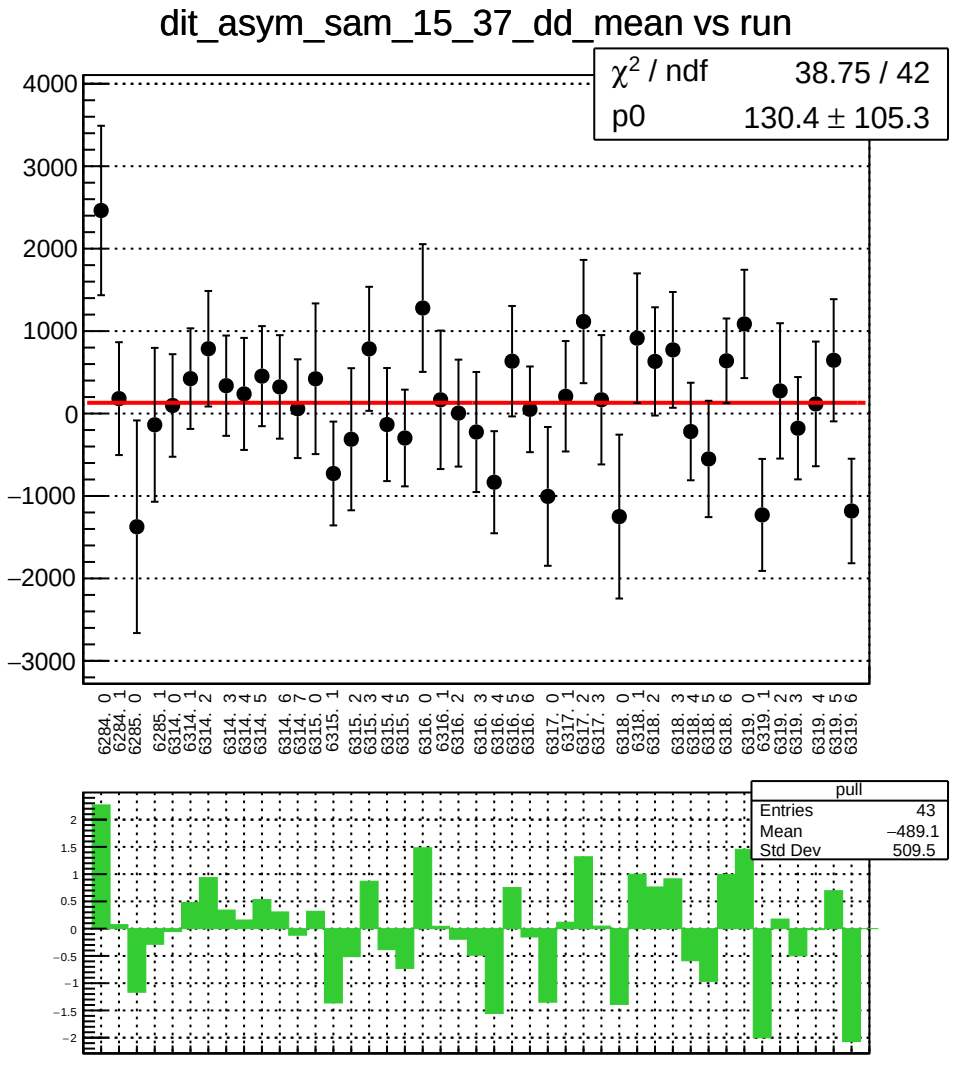

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 56.67 / 42
p0 887.4 ± 886.4
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −81.35
Std Dev 117.7
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01138
Std Dev 1.148
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

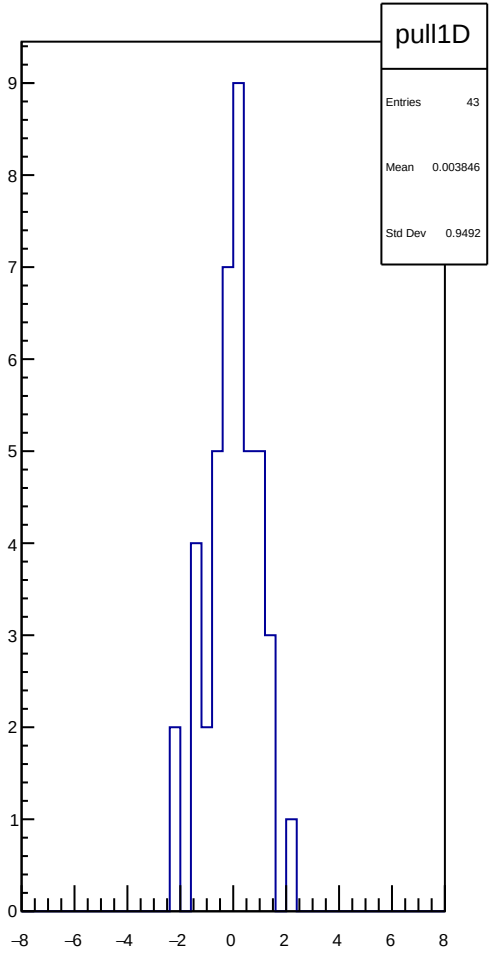

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 7786 / 42
p0 580 ± 0.6268
850
800
750
700
650
600
550
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

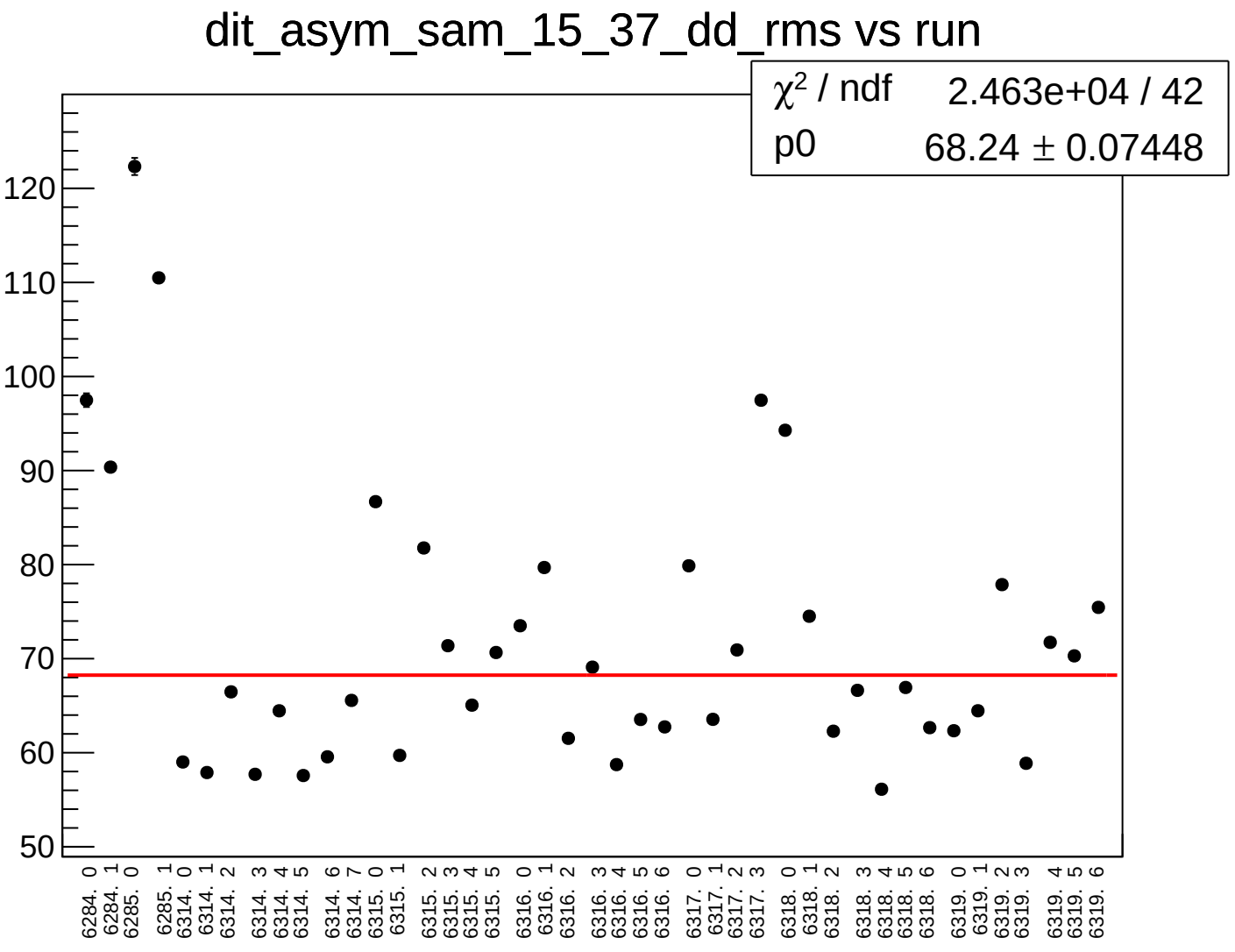

asym_sam_13_57_dd_mean vs run
χ² / ndf 52.73 / 42
p0 −982.7 ± 863
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −332.1
Std Dev 368.3
3
2
1
0
−1
−2

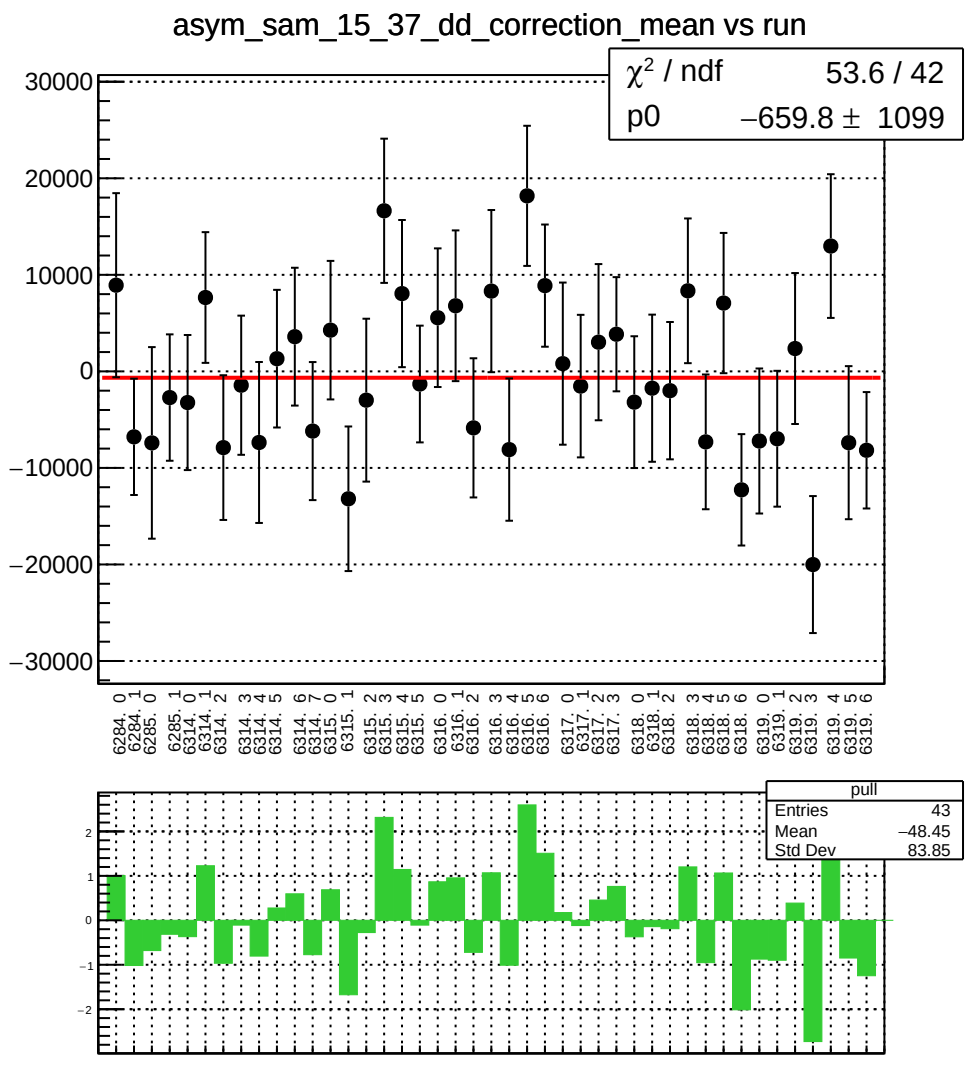

pull1D
Entries 43
Mean 0.003614
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

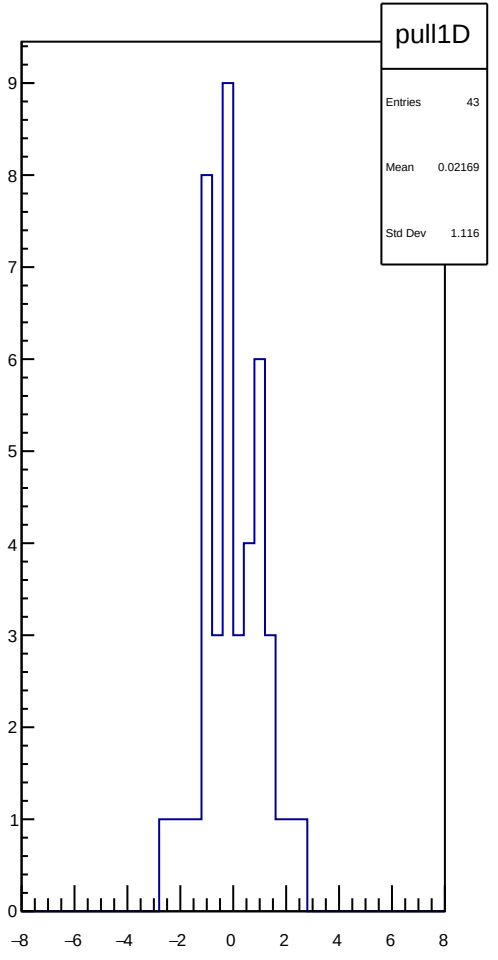

asym_sam_13_57_dd_rms vs run
χ² / ndf 6980 / 42
p0 564.9 ± 0.6102
800
750
700
650
600
550
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

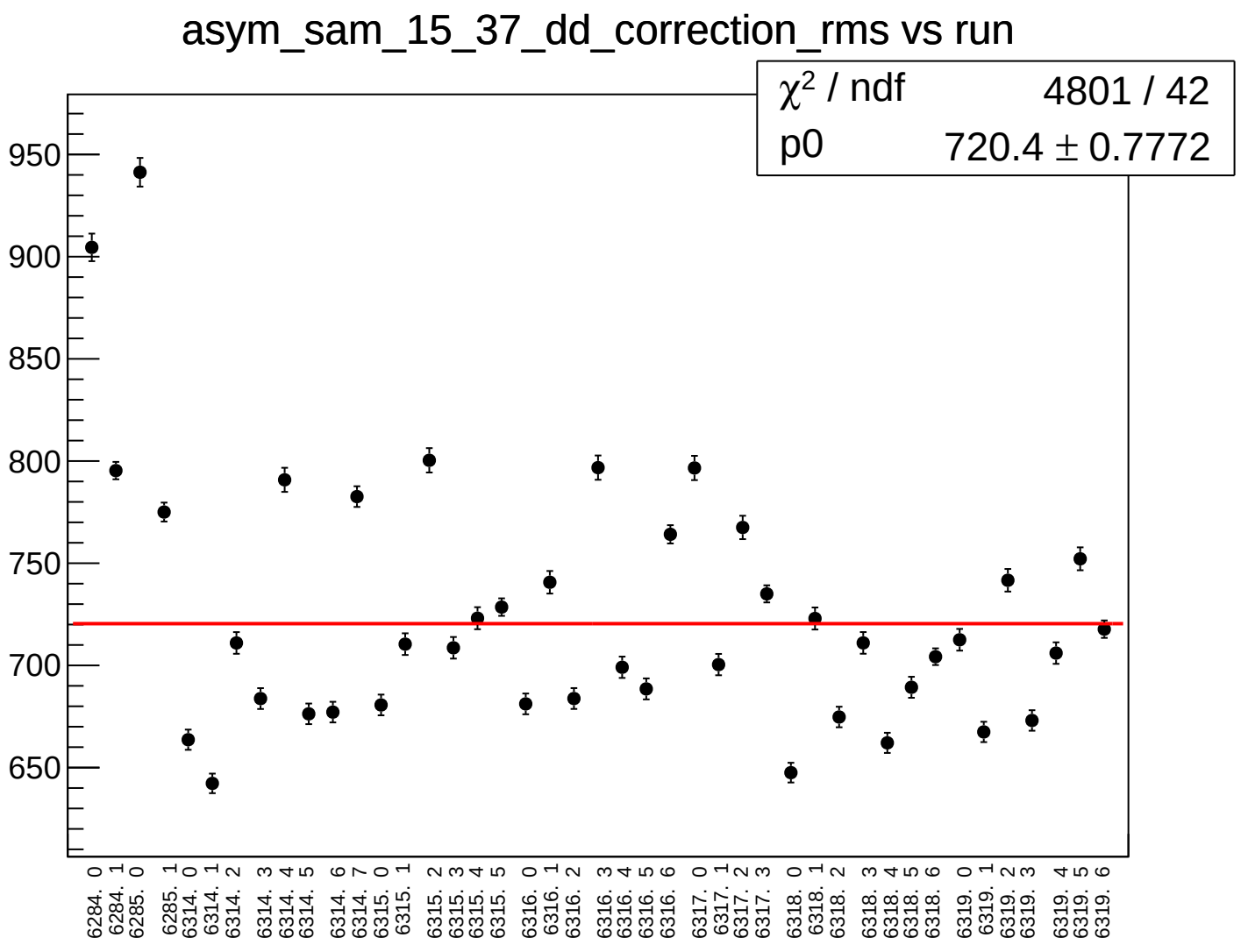

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 38.75 / 42
p0 130.4 ± 105.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −489.1
Std Dev 509.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

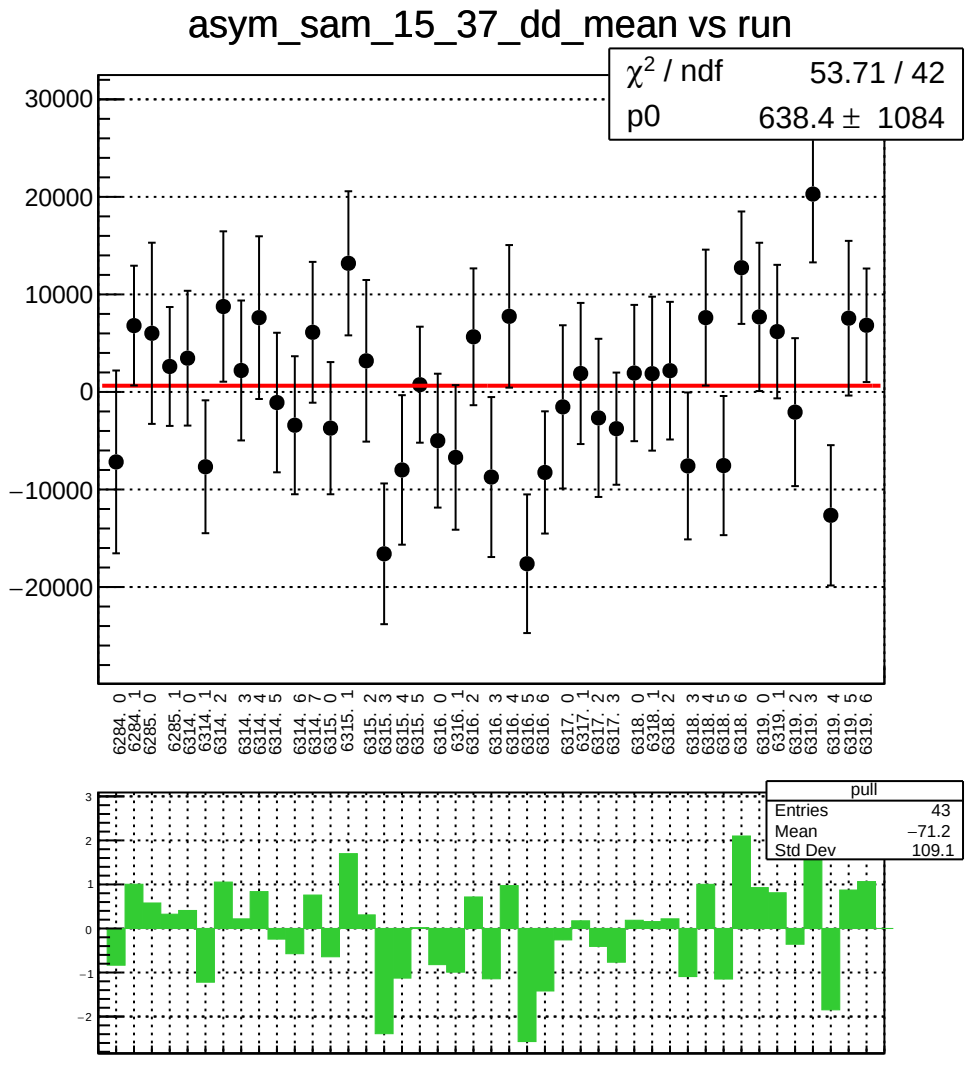

pull1D
Entries 43
Mean 0.003846
Std Dev 0.9492
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

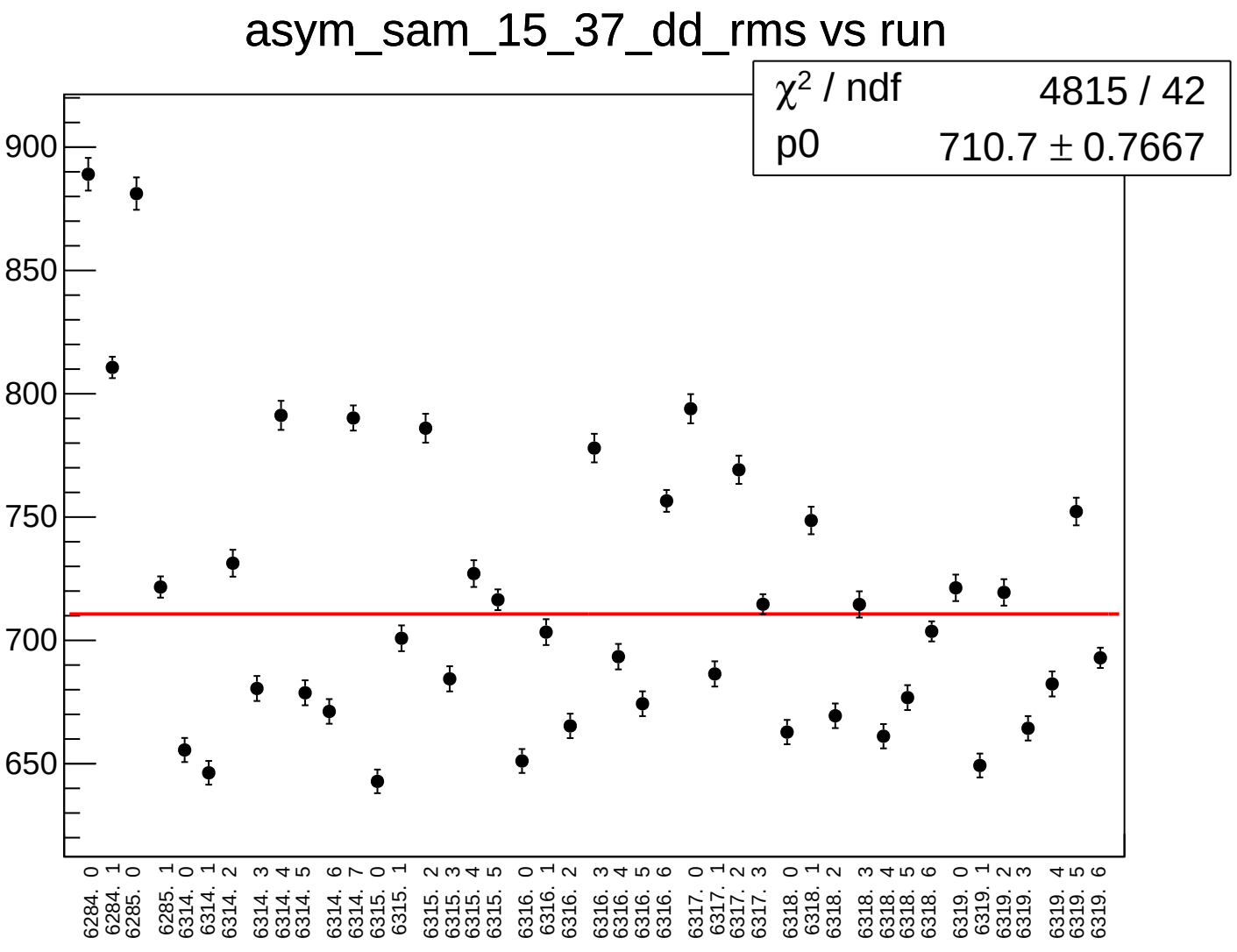

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.463e+04 / 42
p0 68.24 ± 0.07448
120
110
100
90
80
70
60
50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

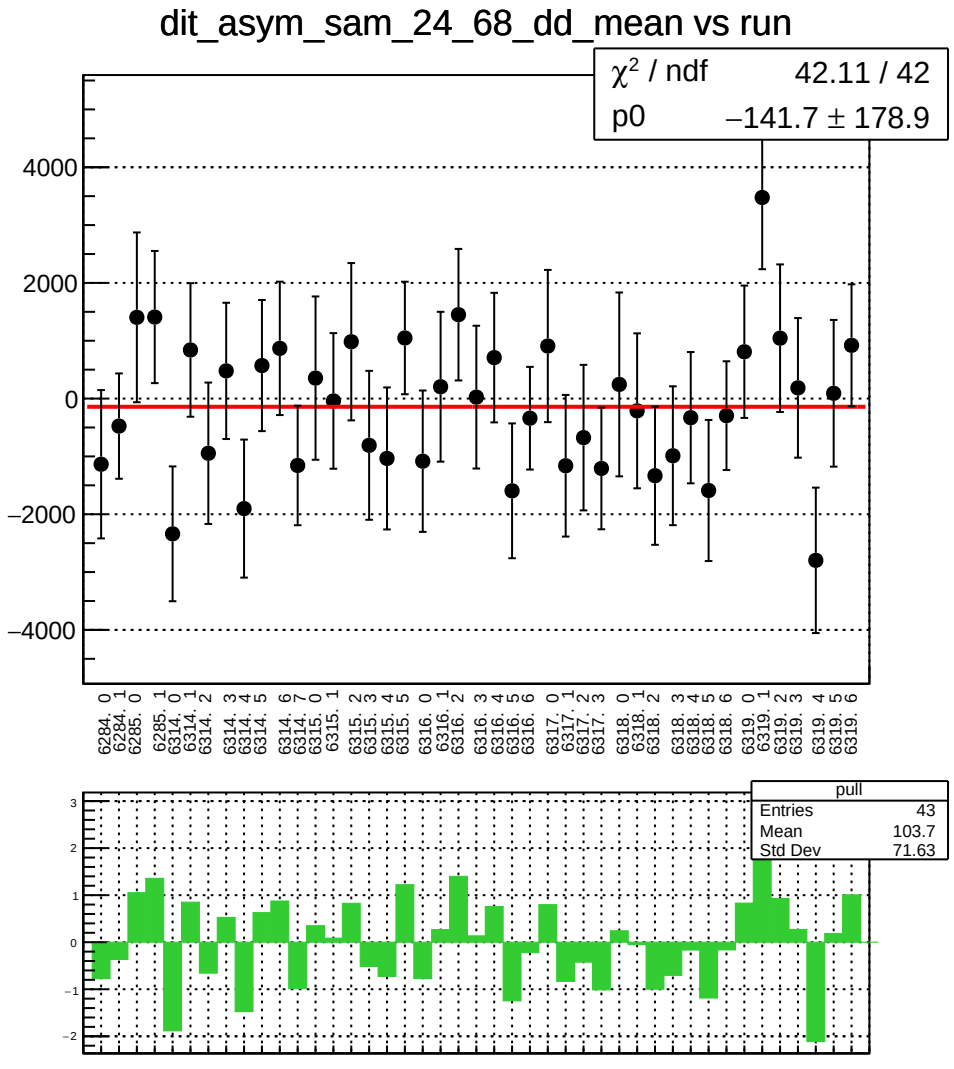

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 53.6 / 42
p0 −659.8 ± 1099
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −48.45
Std Dev 83.85
2
1
0
−1
−2

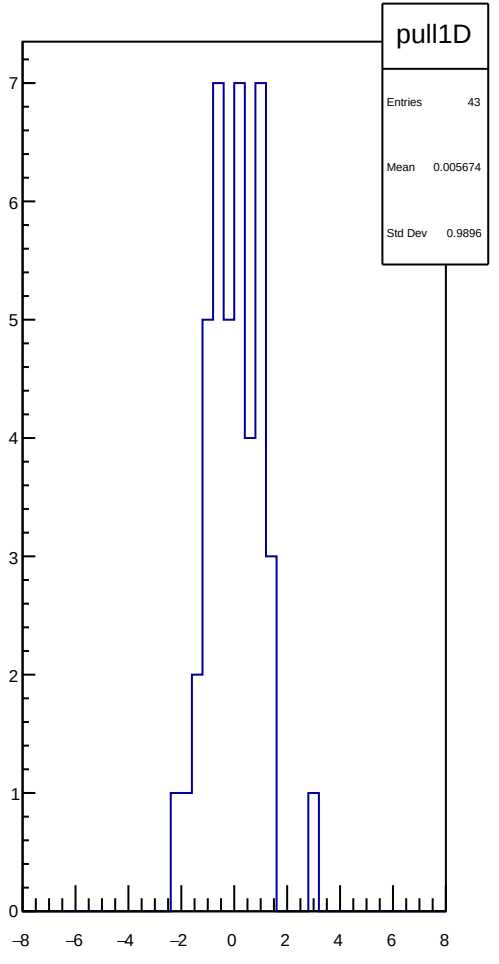

pull1D
Entries 43
Mean 0.02169
Std Dev 1.116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

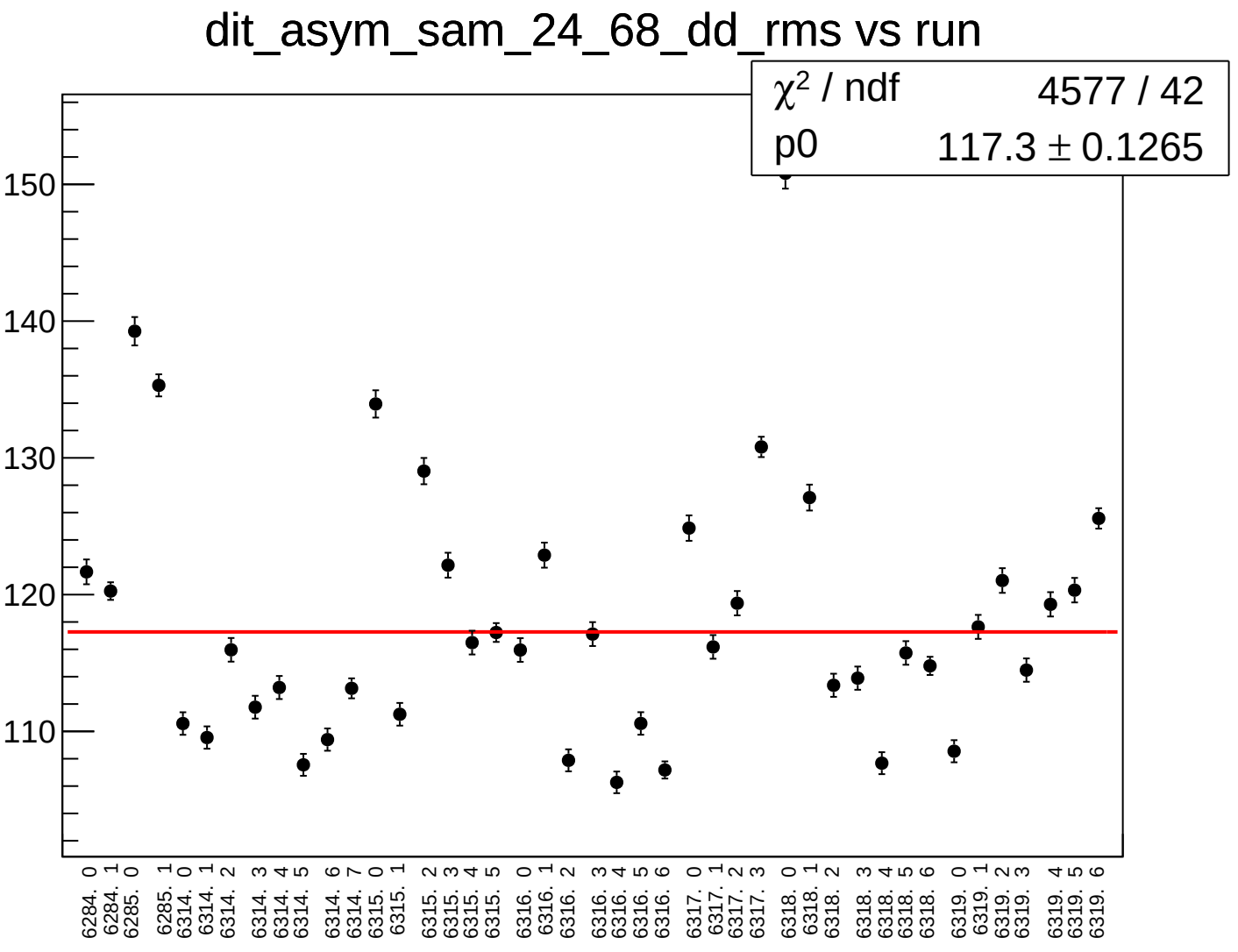

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 4801 / 42
p0 720.4 ± 0.7772
950
900
850
800
750
700
650
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

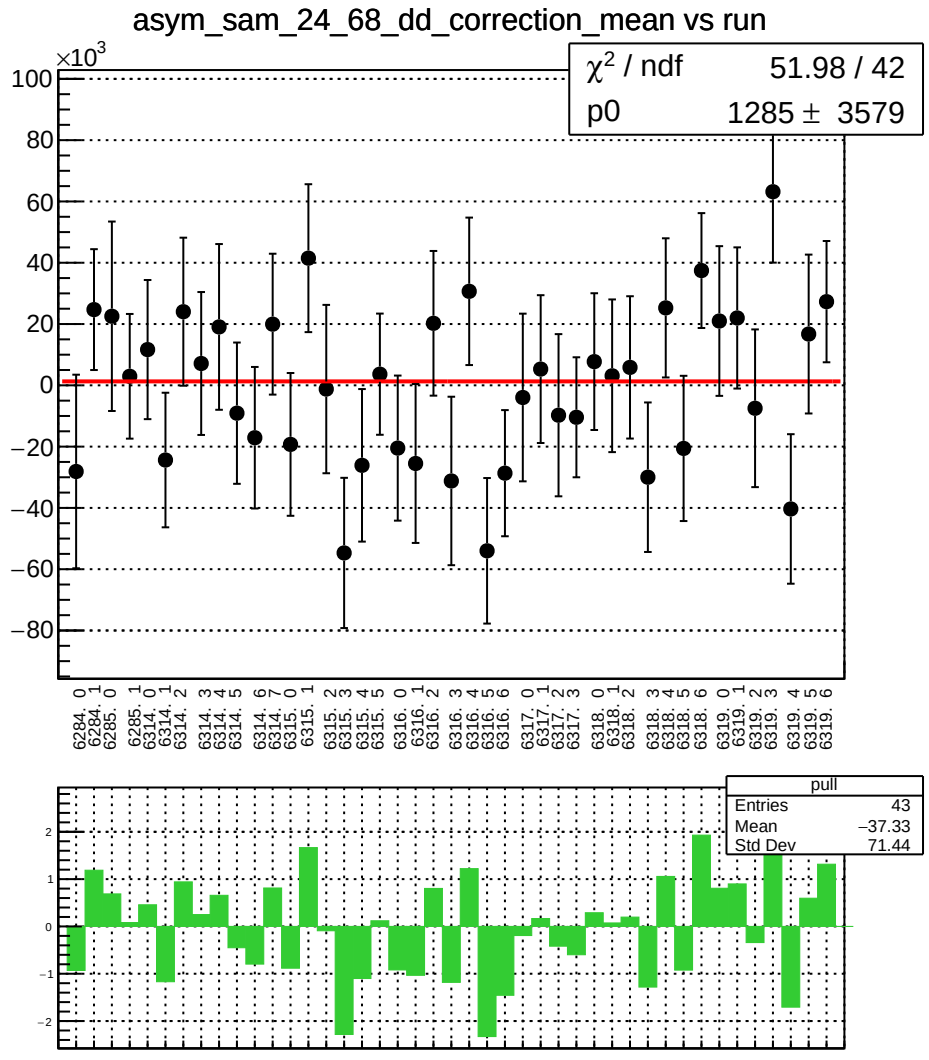

asym_sam_15_37_dd_mean vs run
χ² / ndf 53.71 / 42
p0 638.4 ± 1084
30000
20000
10000
0
−10000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −71.2
Std Dev 109.1
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01453
Std Dev 1.118
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

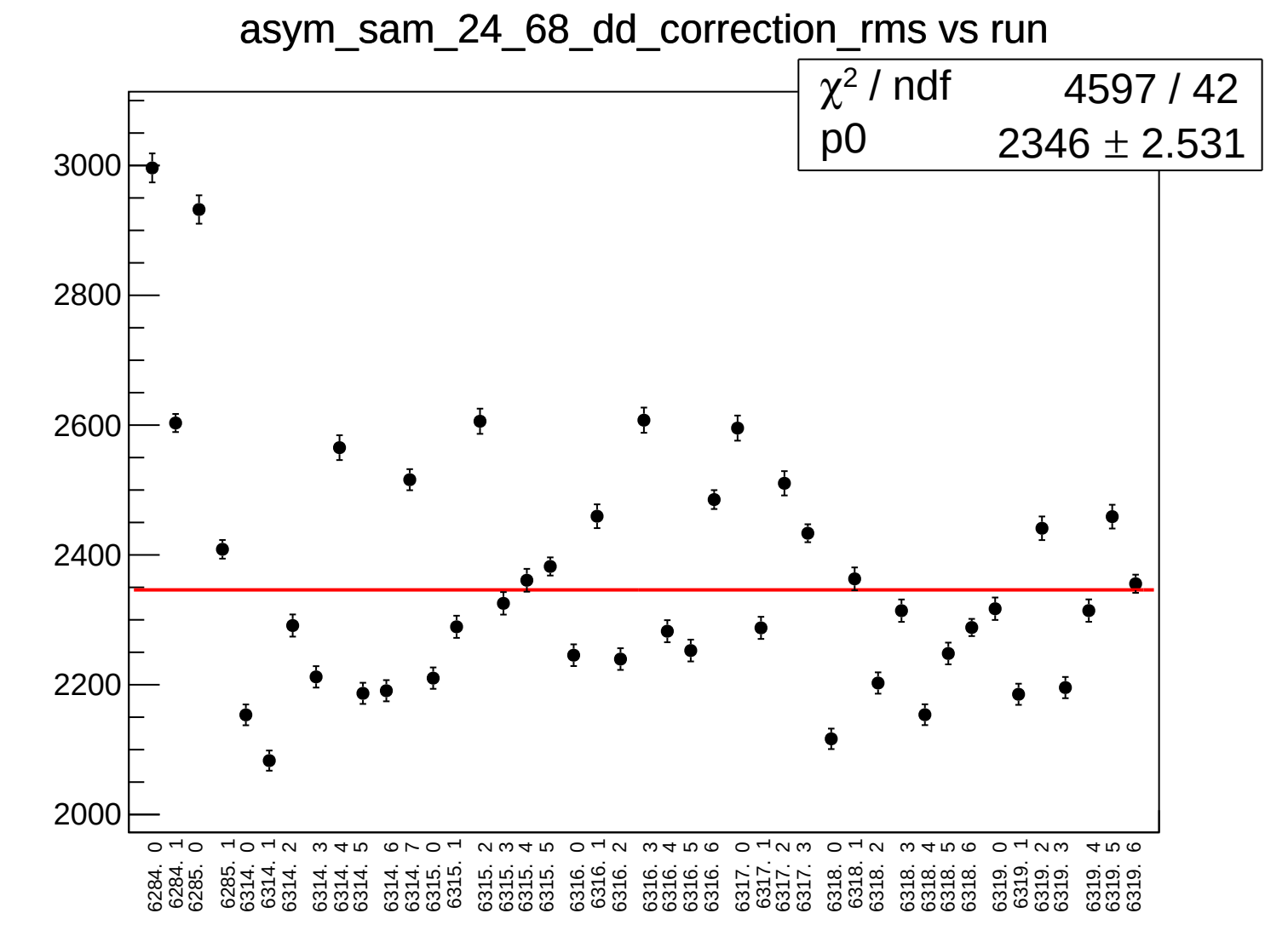

asym_sam_15_37_dd_rms vs run
χ² / ndf 4815 / 42
p0 710.7 ± 0.7667
900
850
800
750
700
650
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

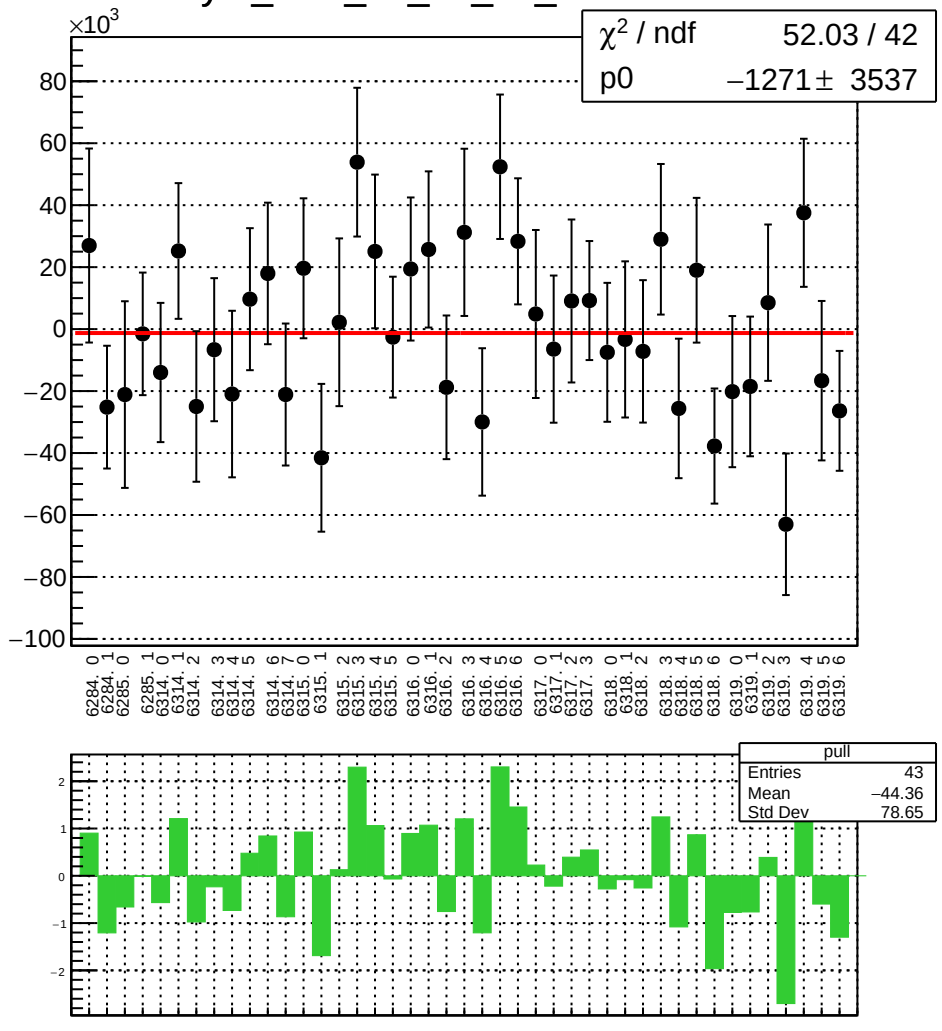

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 42.11 / 42
p0 −141.7 ± 178.9
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 103.7
Std Dev 71.63
3
2
1
0
−1
−2

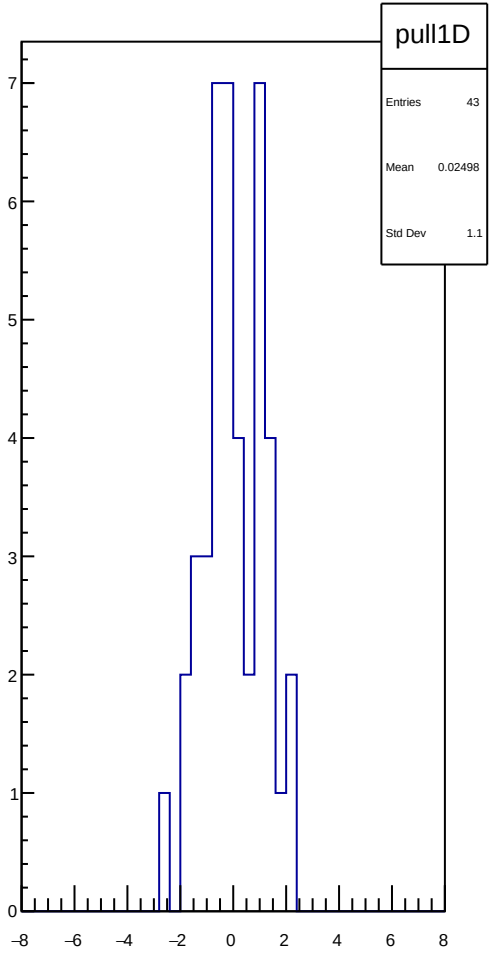

pull1D
Entries 43
Mean 0.005674
Std Dev 0.9896
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

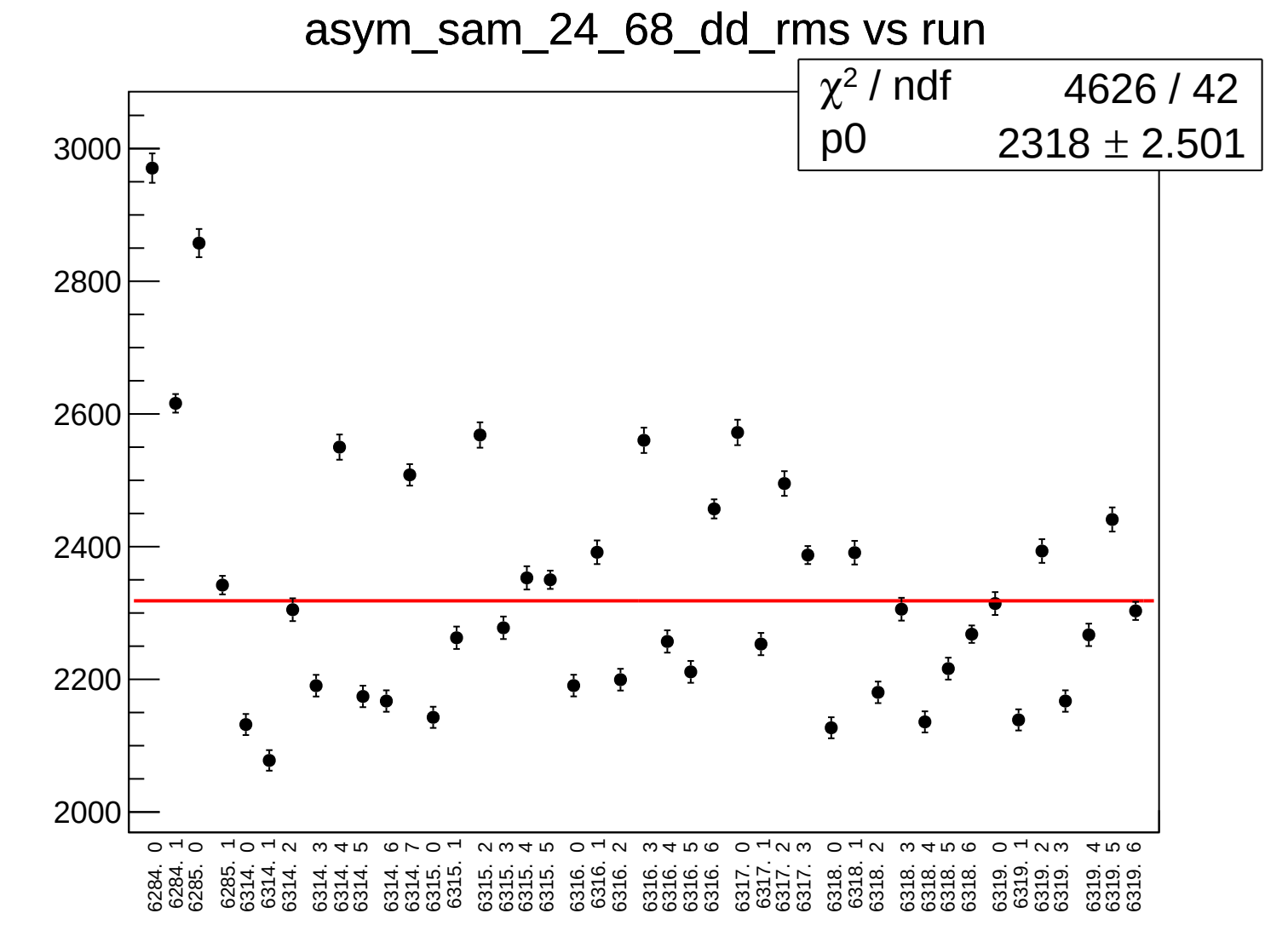

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4577 / 42
p0 117.3 ± 0.1265
150
140
130
120
110
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

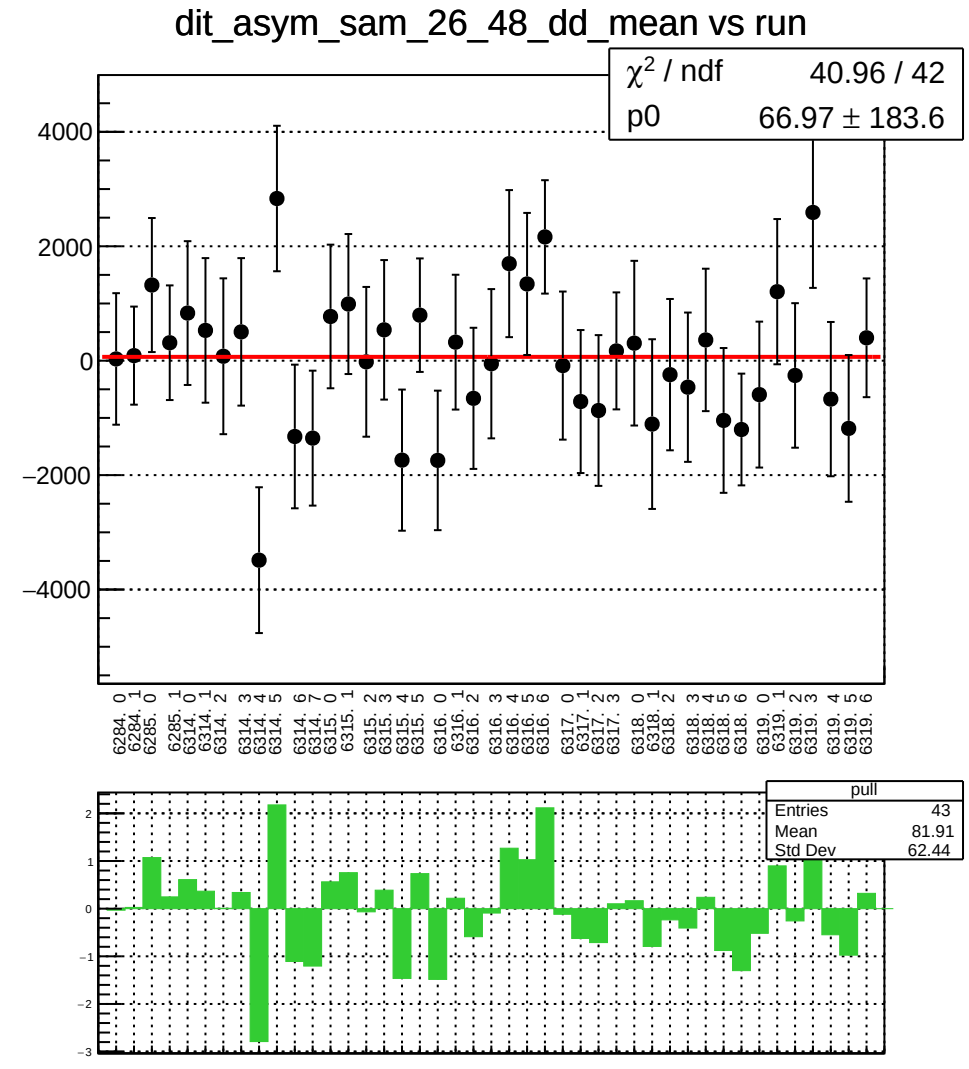

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 51.98 / 42
p0 1285 ± 3579
pull
Entries 43
Mean −37.33
Std Dev 71.44
pull1D
Entries 43
Mean −0.0277
Std Dev 1.099

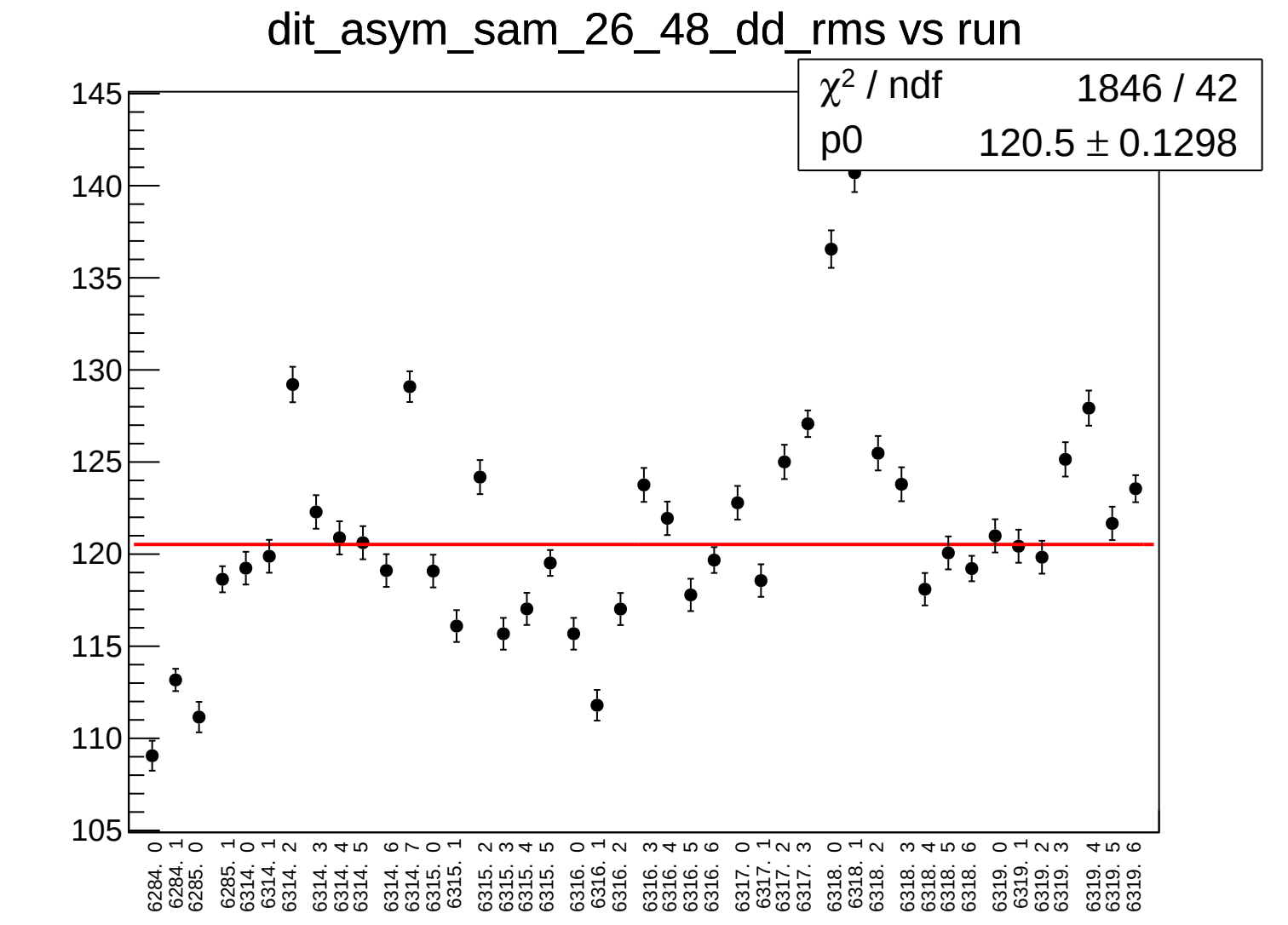

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 4597 / 42
p0 2346 ± 2.531
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

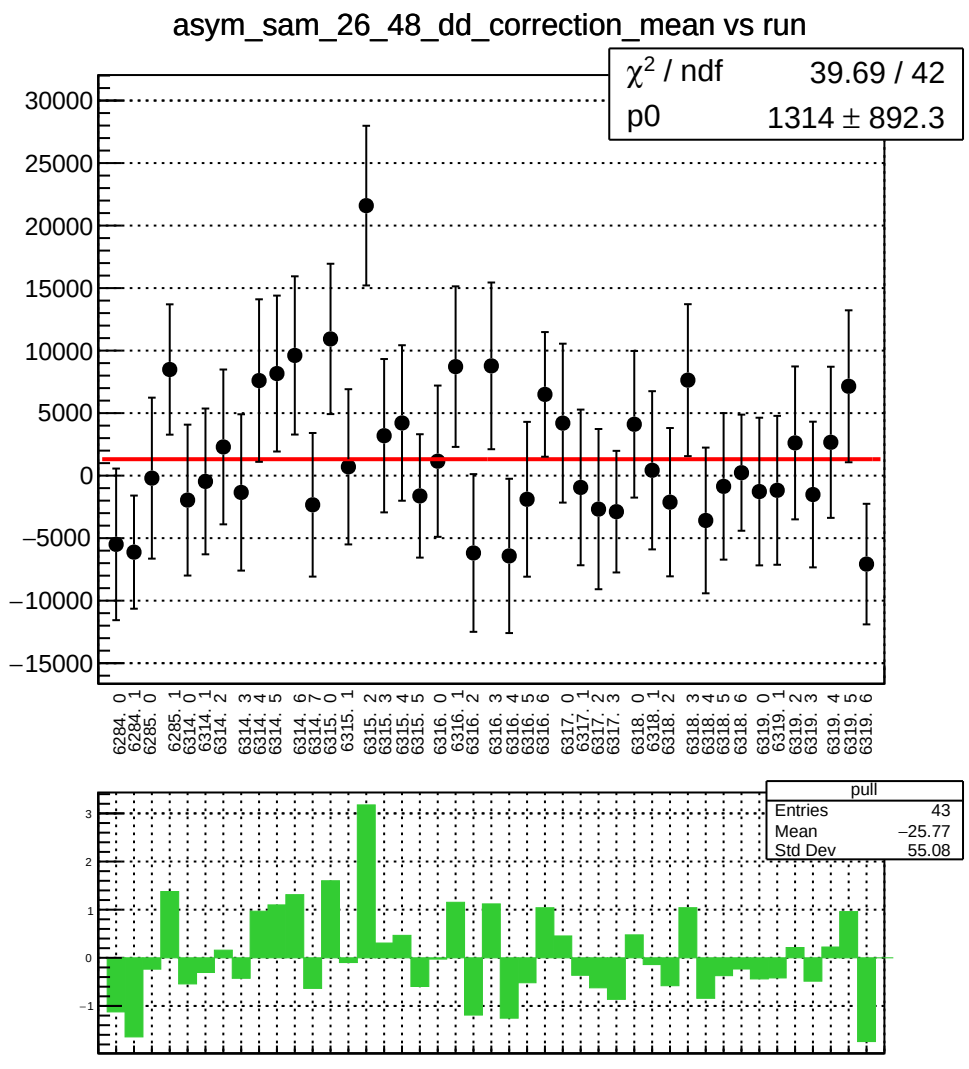

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 52.03 / 42
p0 −1271 ± 3537
80
60
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −44.36
Std Dev 78.65
2
1
0
−1
−2

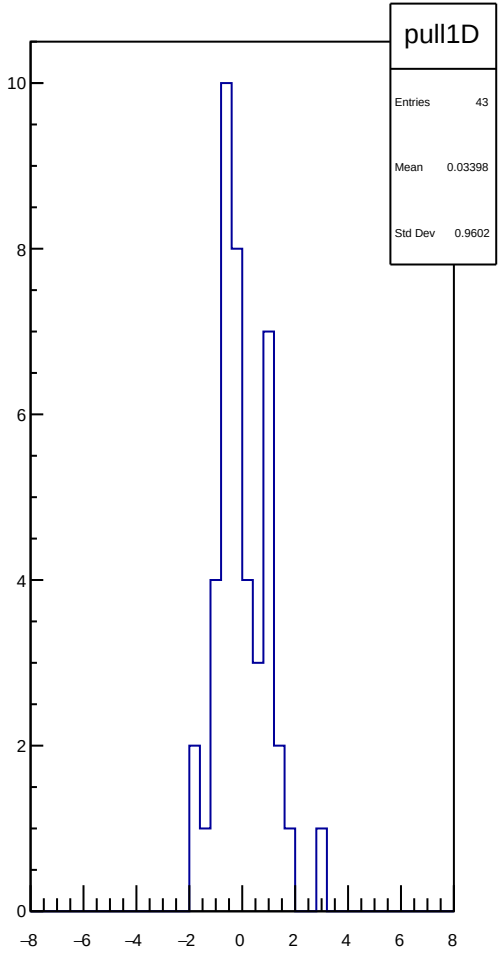

pull1D
Entries 43
Mean 0.02498
Std Dev 1.1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

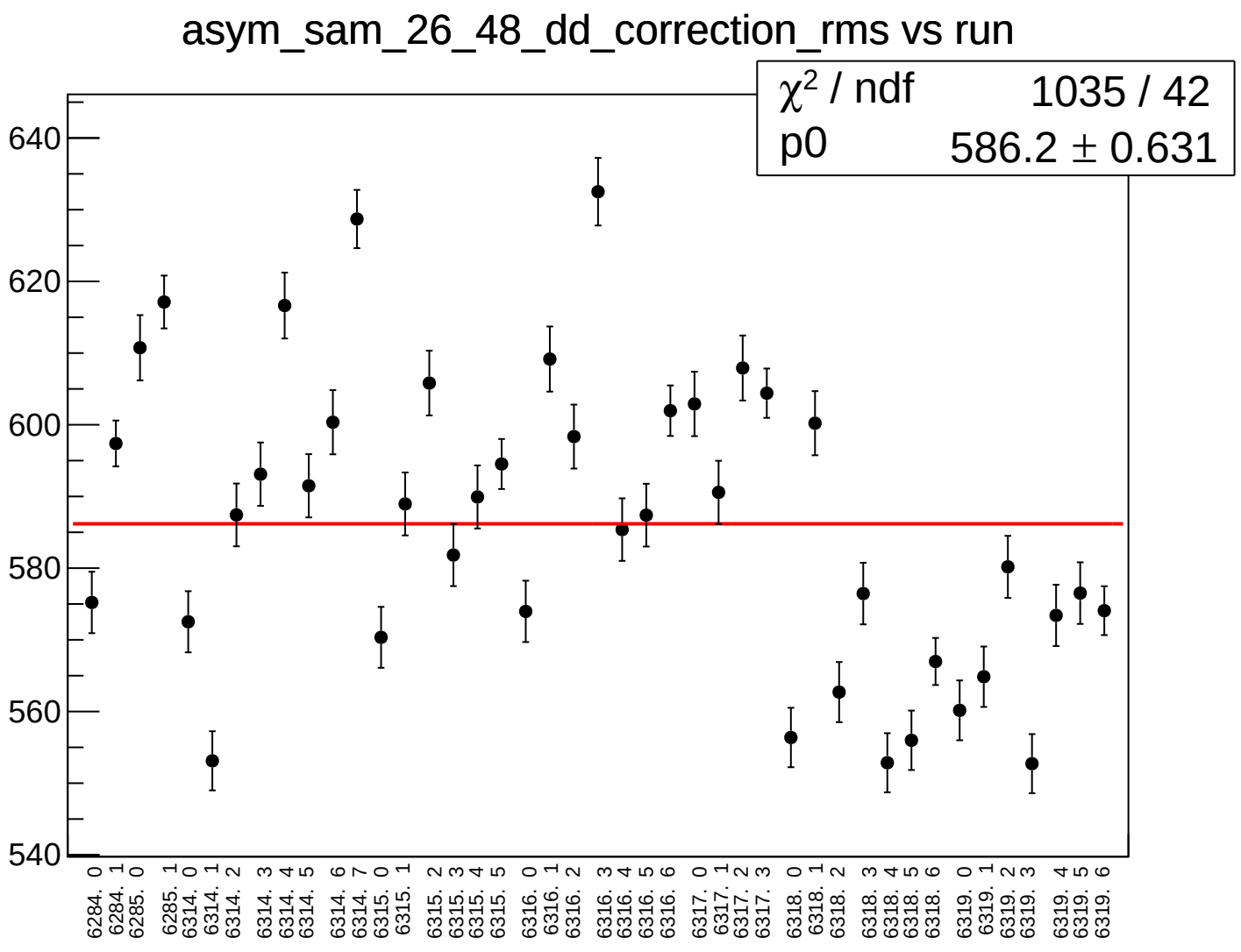

asym_sam_24_68_dd_rms vs run
χ² / ndf 4626 / 42
p0 2318 ± 2.501
3000
2800
2600
2400
2200
2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

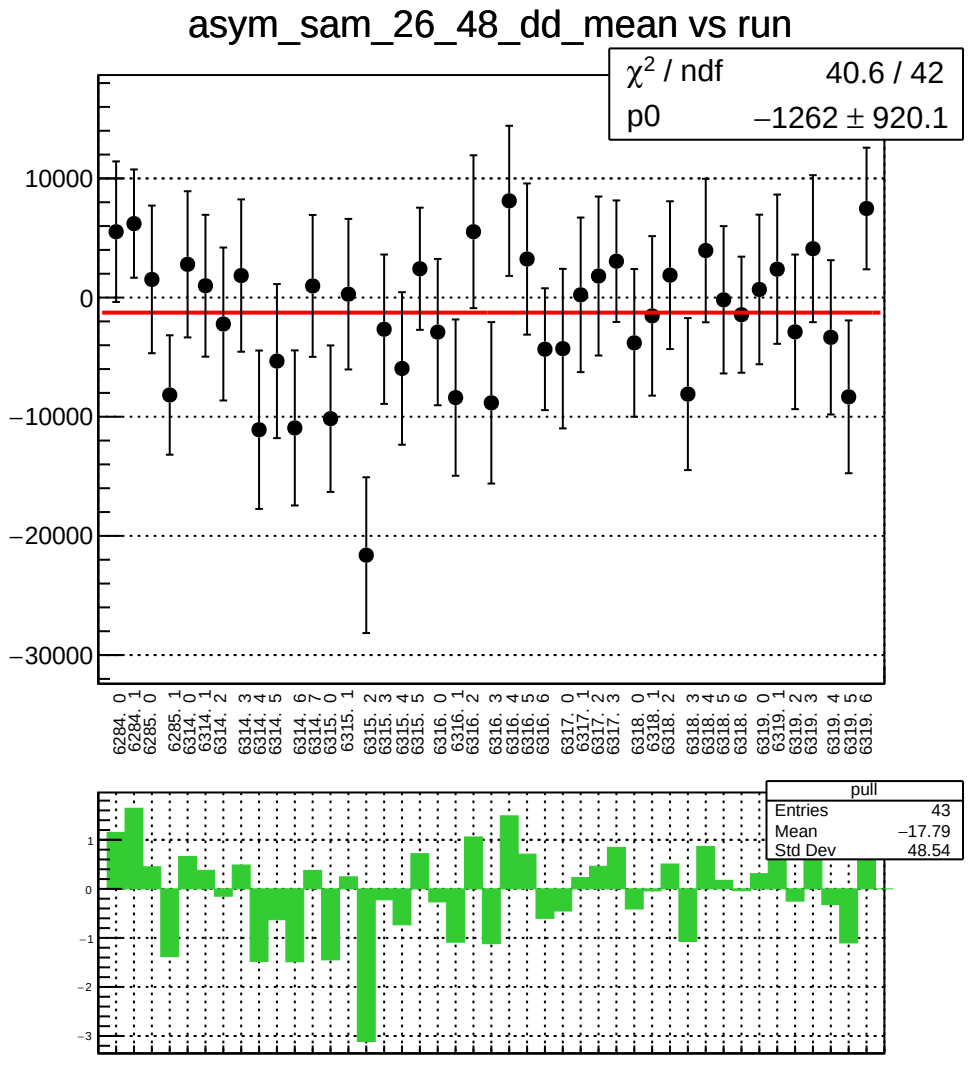

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 40.96 / 42
p0 66.97 ± 183.6
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 81.91
Std Dev 62.44
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01488
Std Dev 0.9759
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

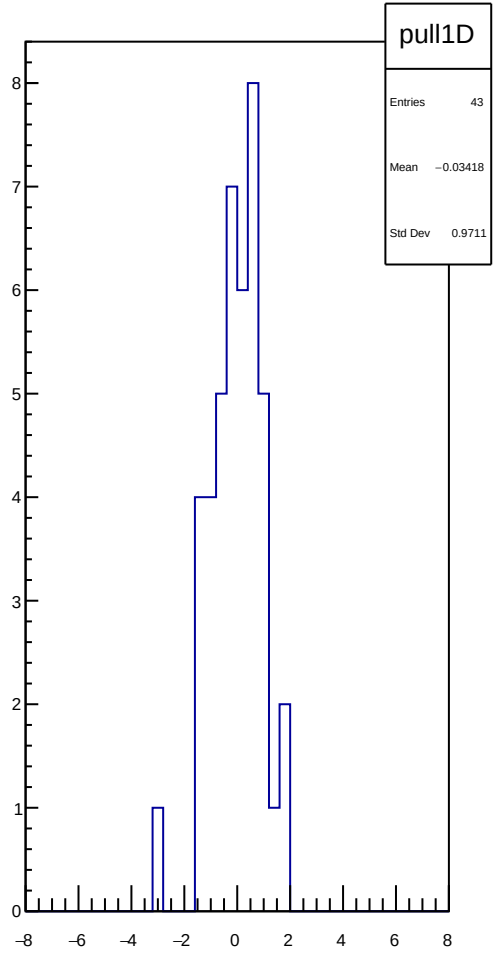

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1846 / 42
p0 120.5 ± 0.1298
145
140
135
130
125
120
115
110
105
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

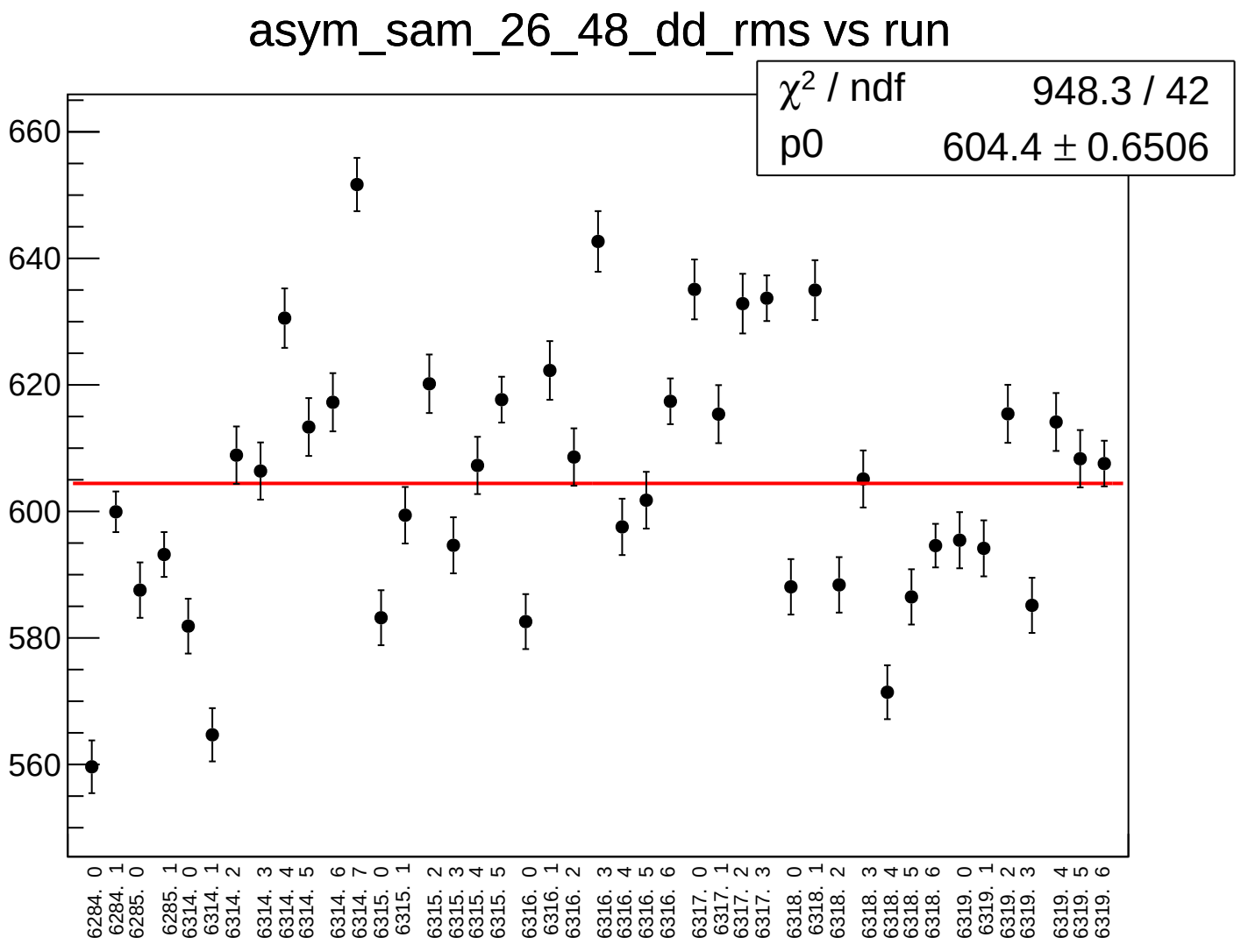

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 39.69 / 42
p0 1314 ± 892.3
30000
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −25.77
Std Dev 55.08
3
2
1
0
−1

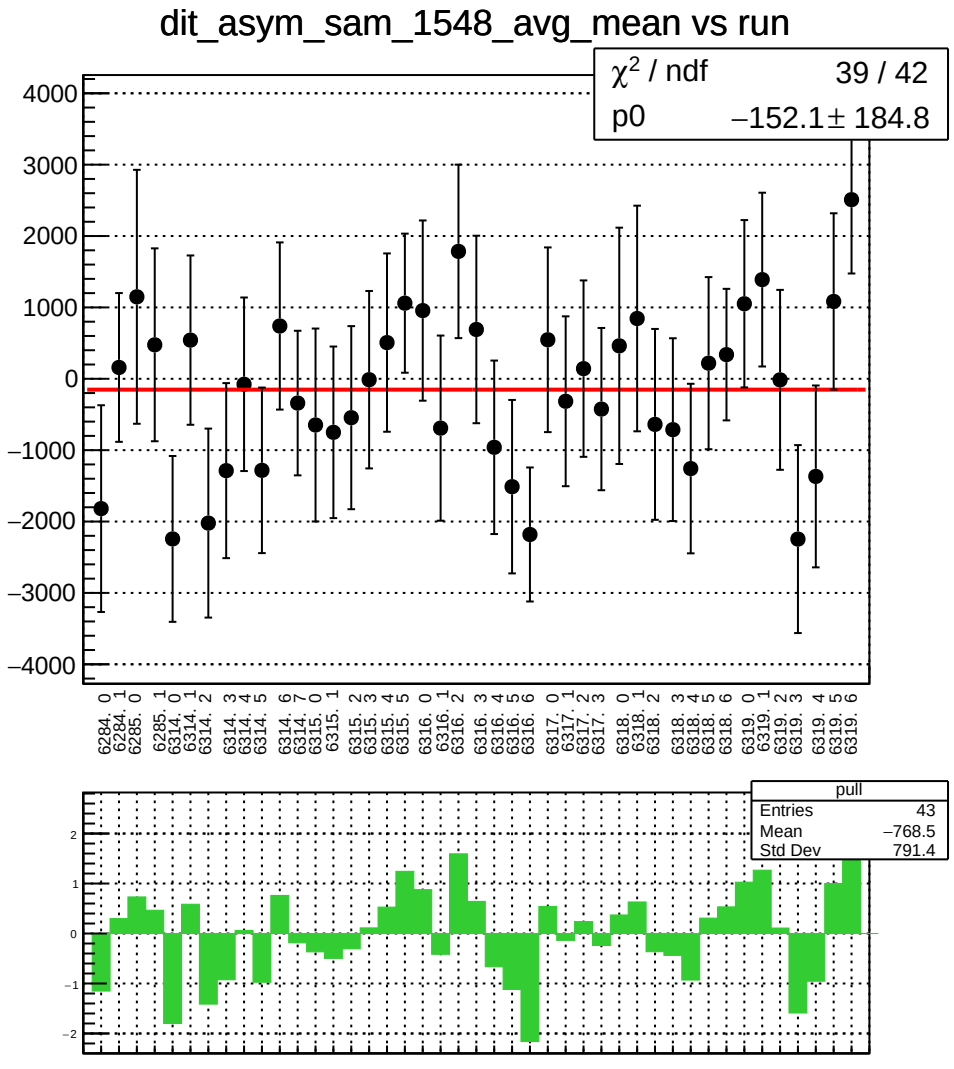

pull1D
Entries 43
Mean 0.03398
Std Dev 0.9602
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

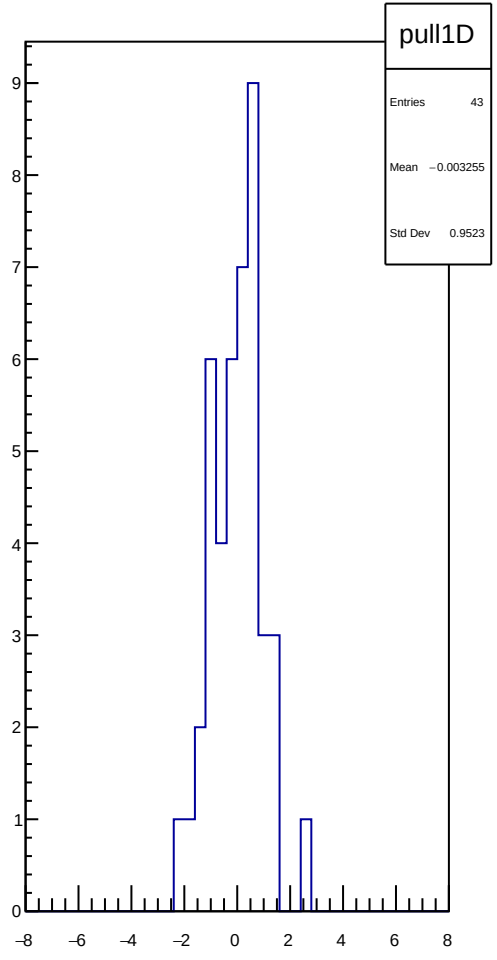

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1035 / 42
p0 586.2 ± 0.631
640
620
600
580
560
540
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

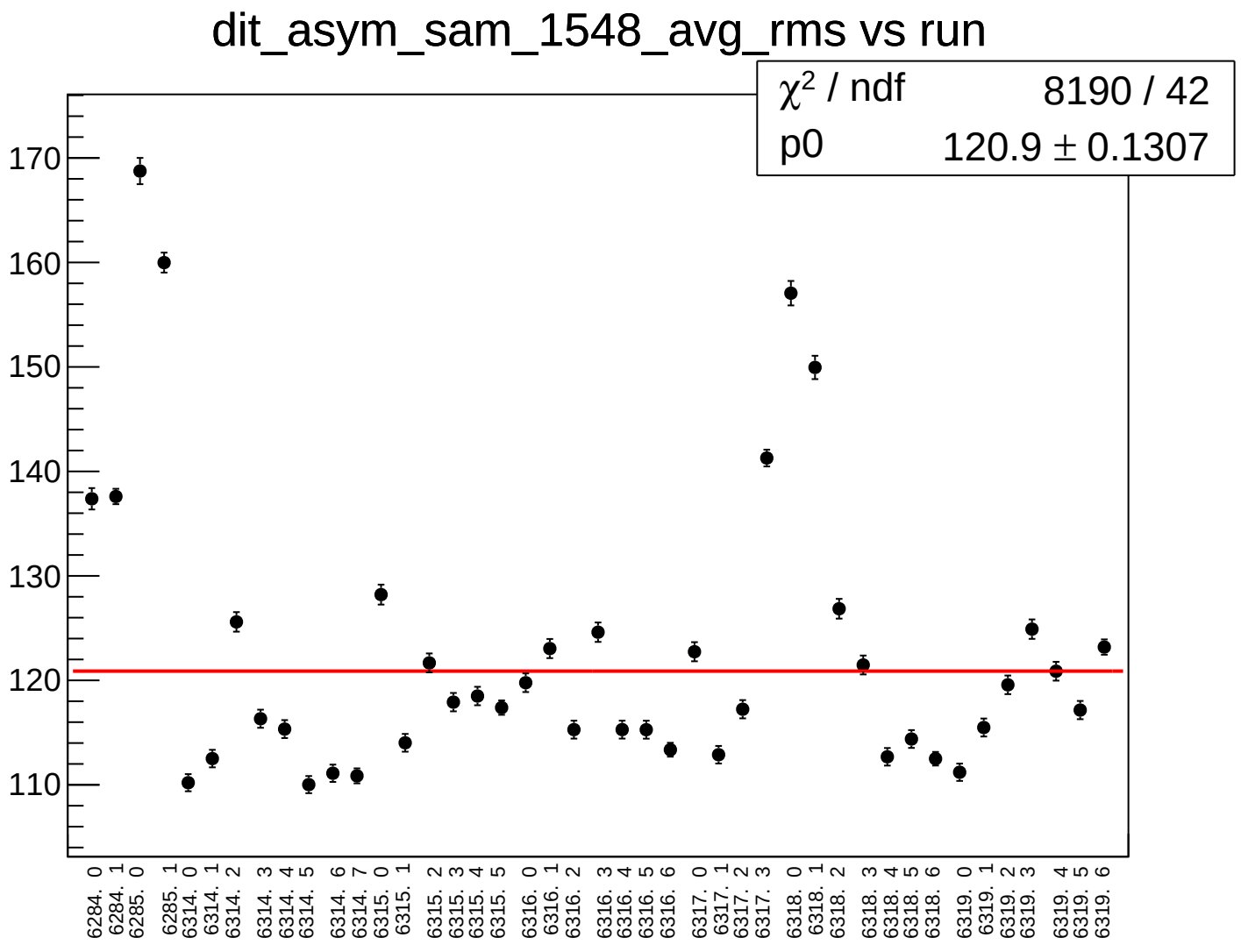

asym_sam_26_48_dd_mean vs run
χ² / ndf 40.6 / 42
p0 −1262 ± 920.1
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −17.79
Std Dev 48.54
1
0
−1
−2
−3

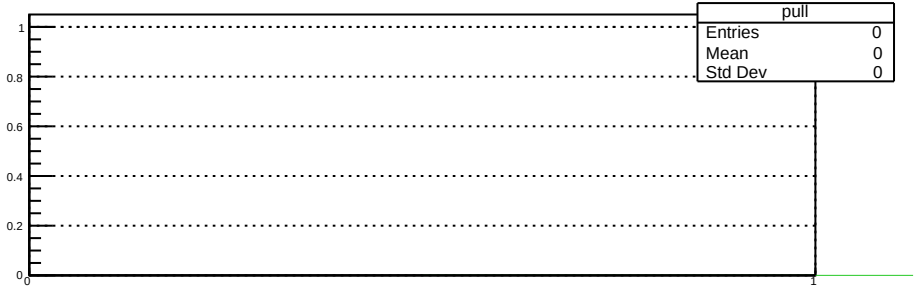

pull1D
Entries 43
Mean −0.03418
Std Dev 0.9711
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

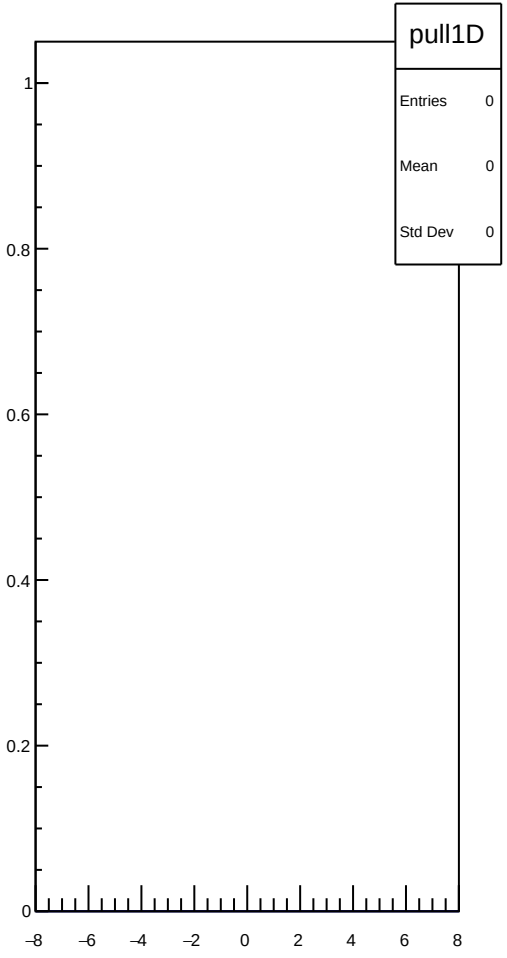

asym_sam_26_48_dd_rms vs run
χ² / ndf 948.3 / 42
p0 604.4 ± 0.6506
660
640
620
600
580
560
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

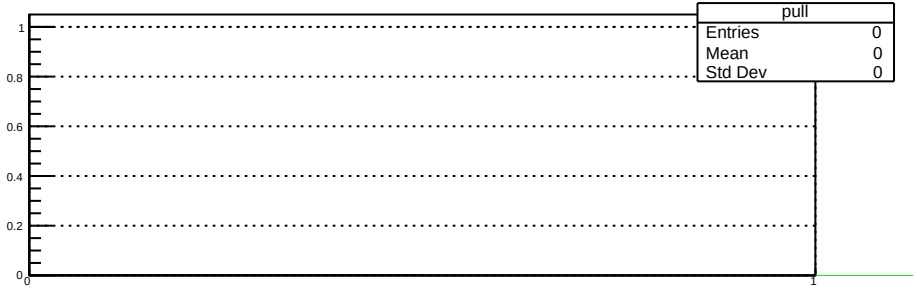

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 39 / 42
p0 −152.1± 184.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −768.5
Std Dev 791.4
2
1
0
−1
−2

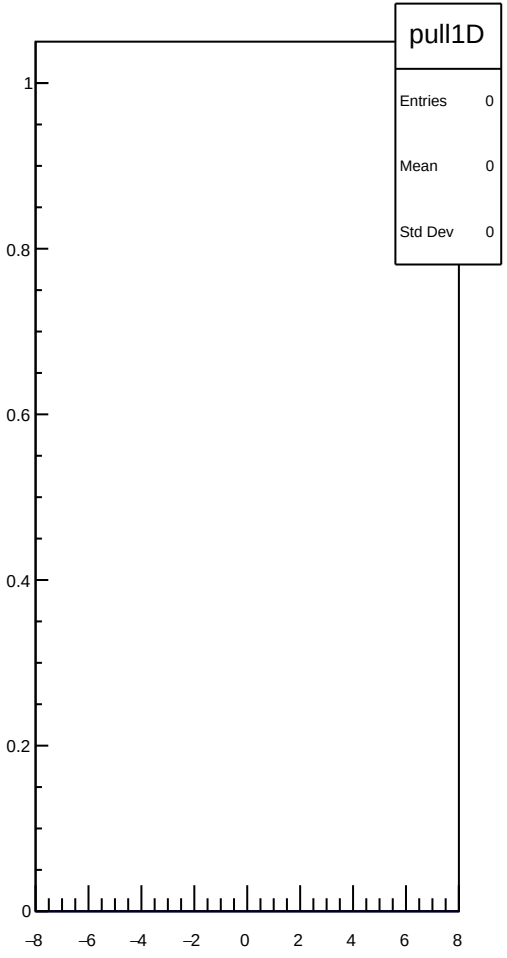

pull1D
Entries 43
Mean −0.003255
Std Dev 0.9523
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

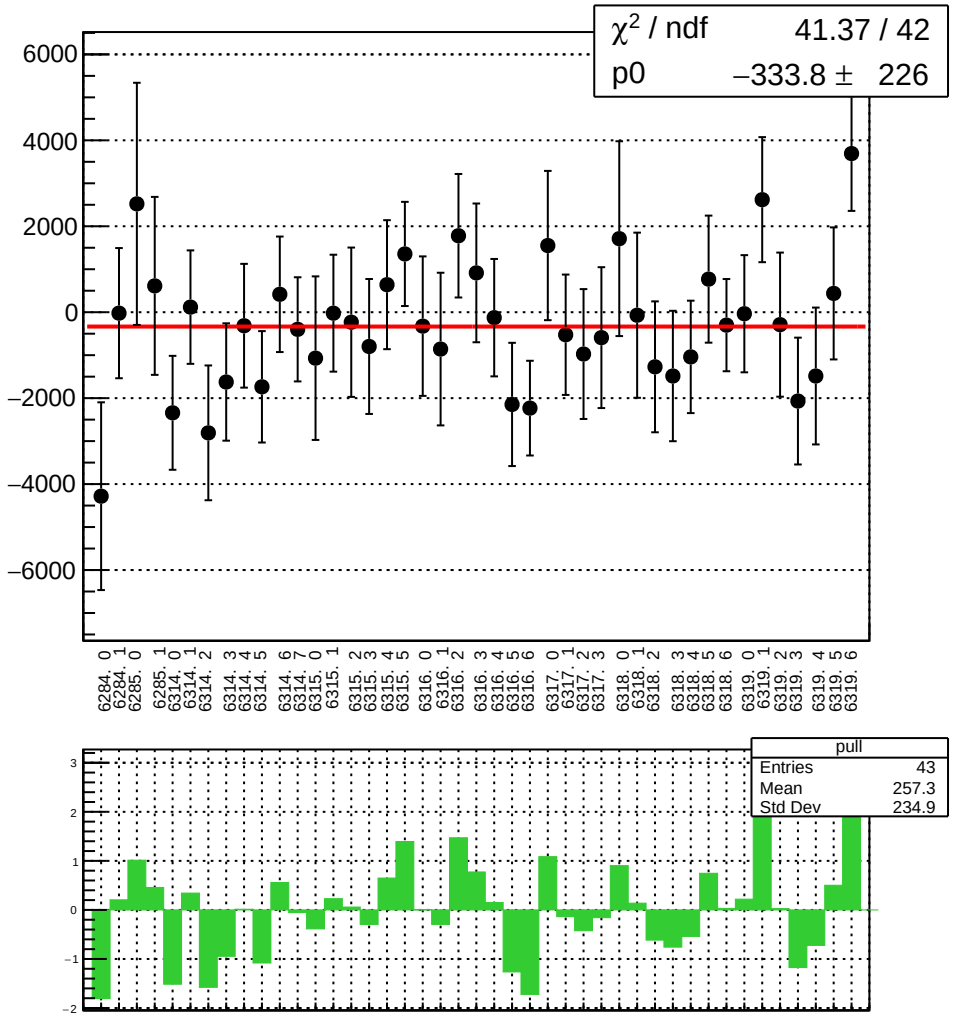

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 8190 / 42
p0 120.9 ± 0.1307
170
160
150
140
130
120
110
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

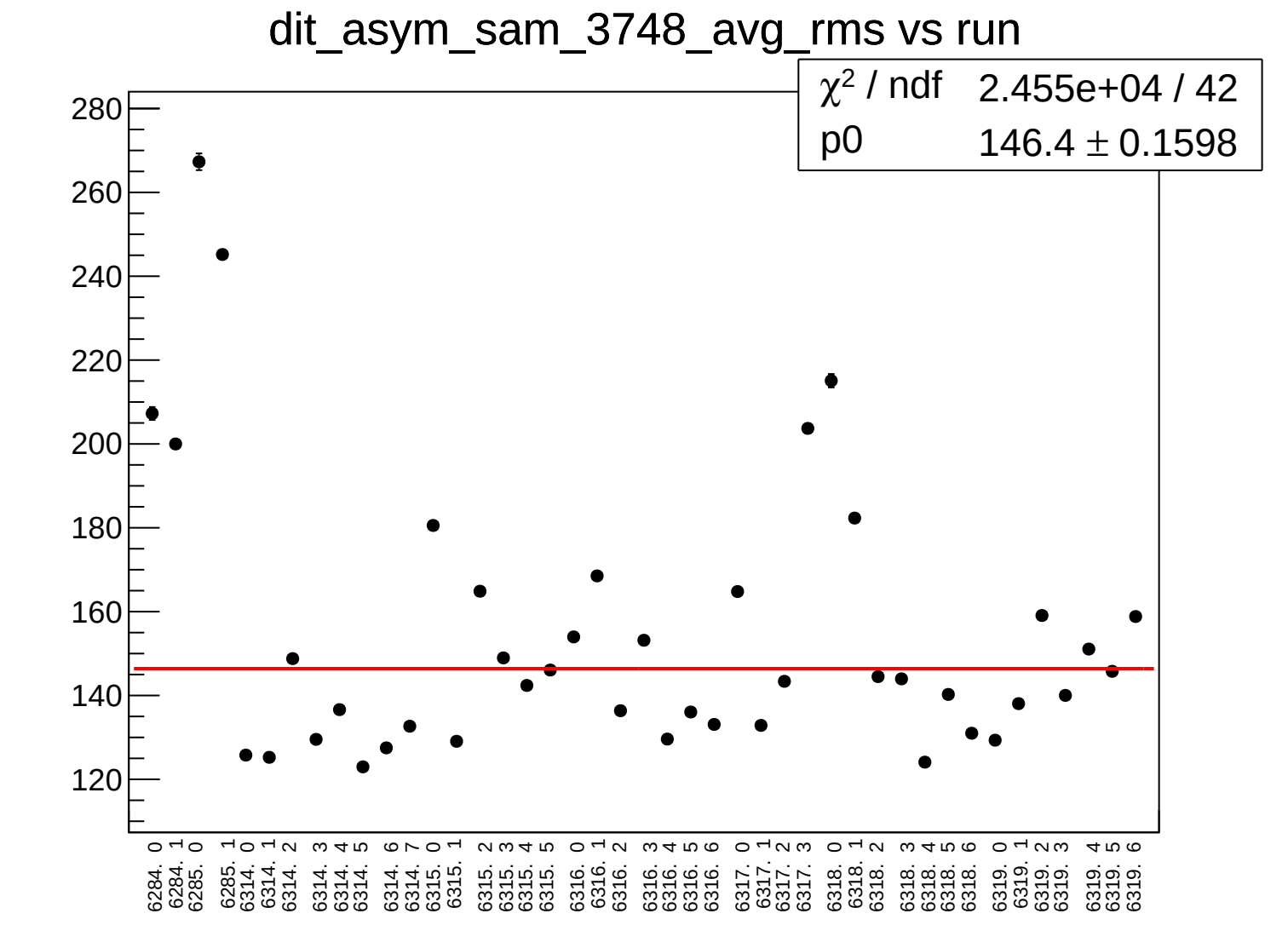

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

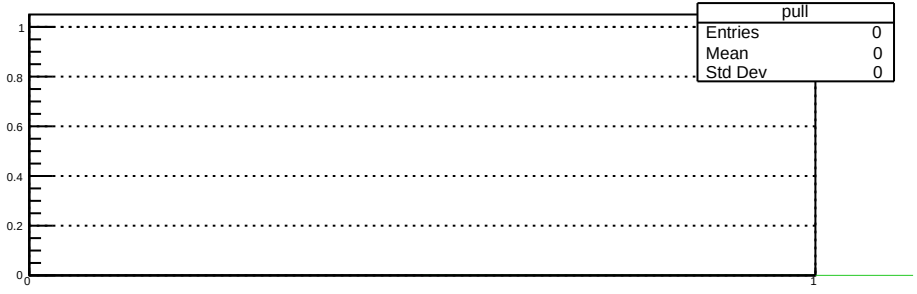

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

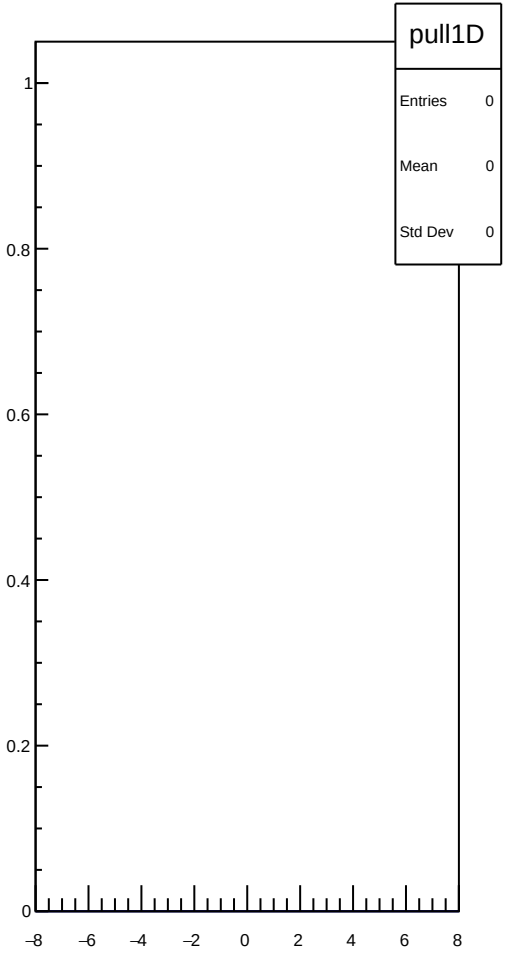

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

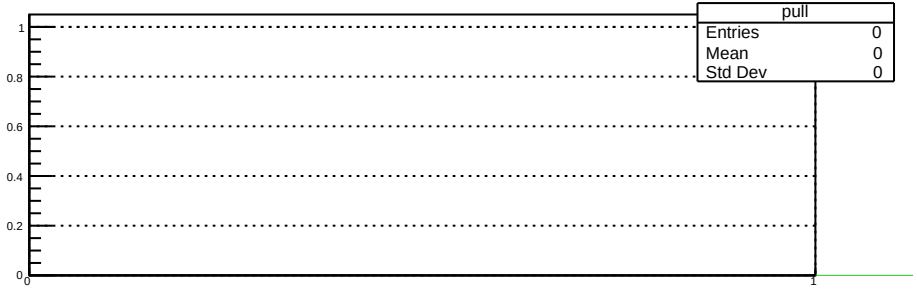

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

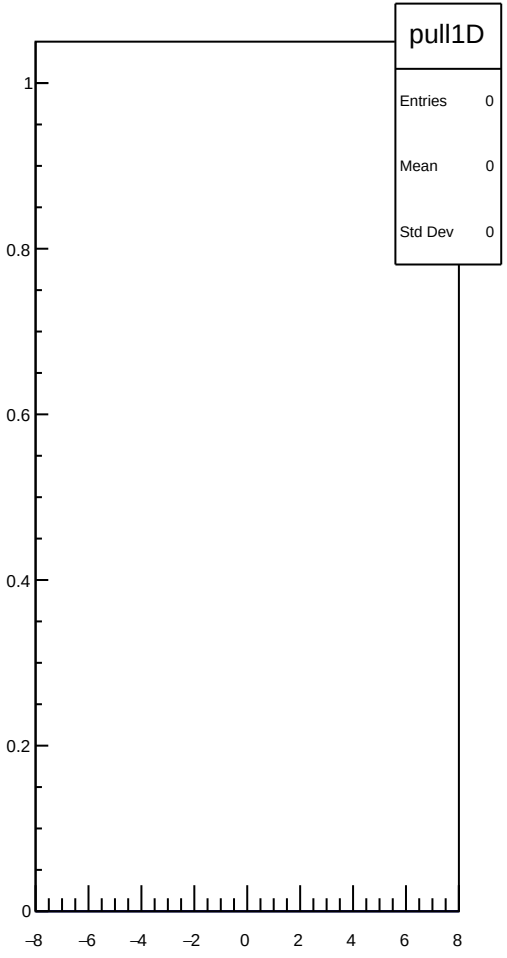

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 41.37 / 42
p0 −333.8 ± 226
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 257.3
Std Dev 234.9
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0127
Std Dev 0.9808
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

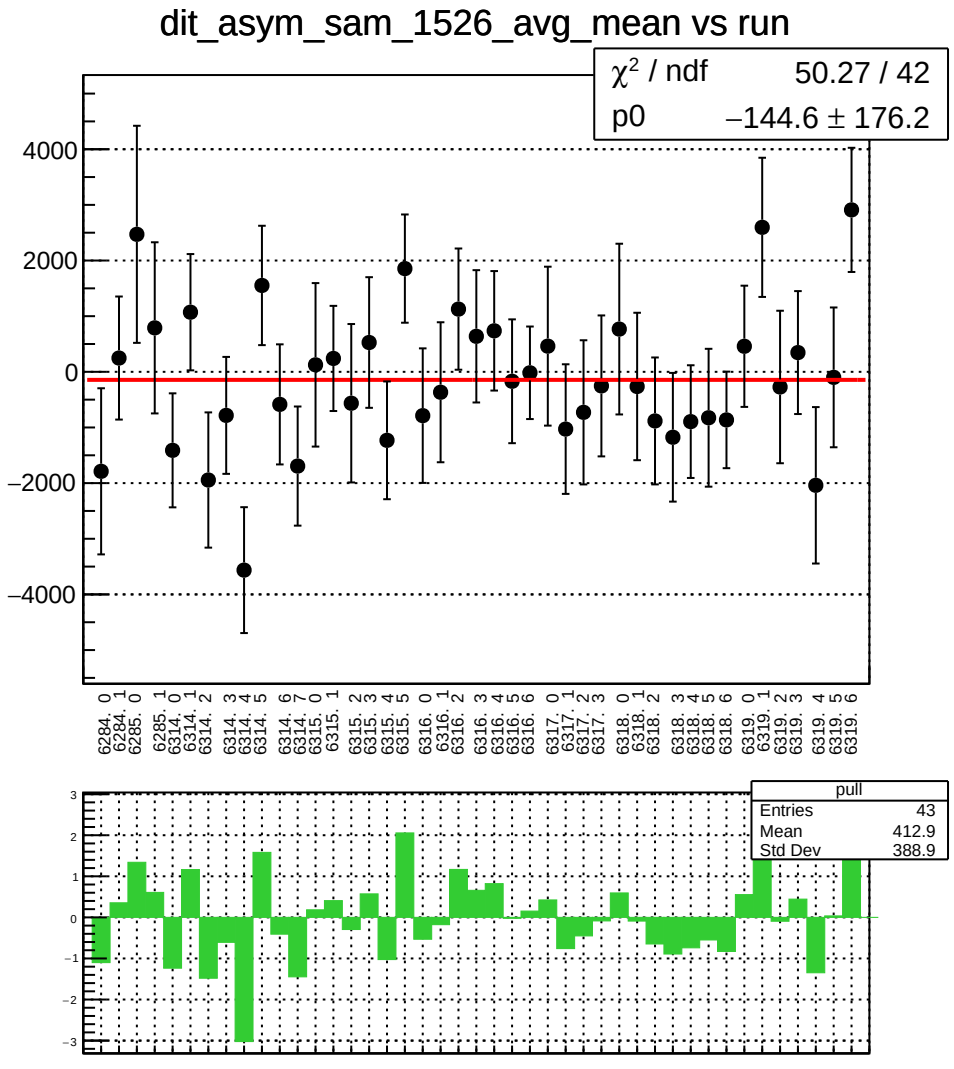

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.455e+04 / 42
p0 146.4 ± 0.1598
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

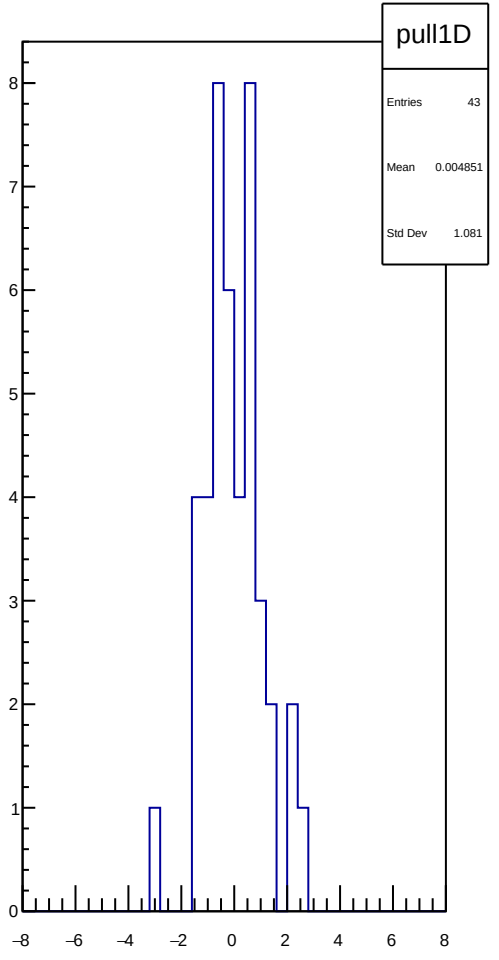

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

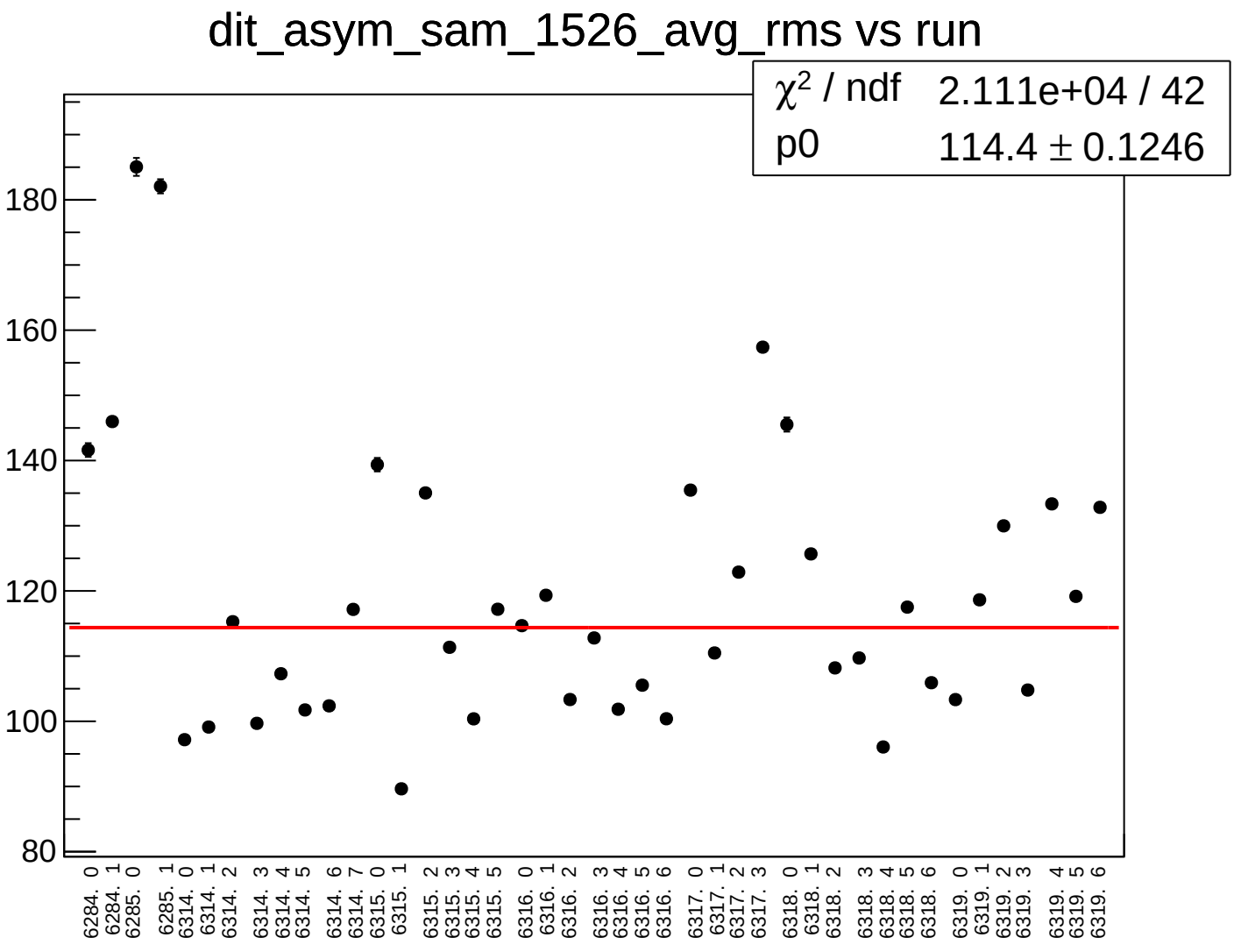

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

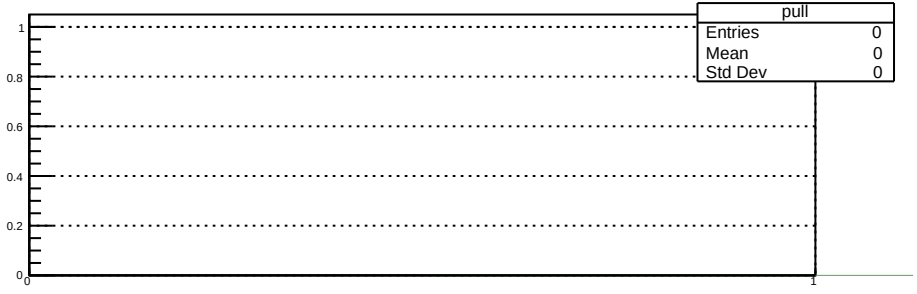

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

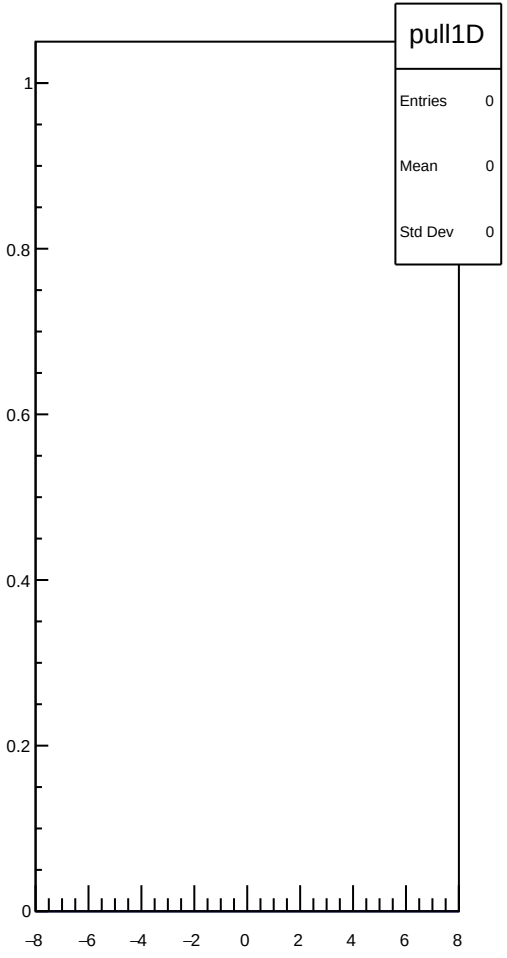

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

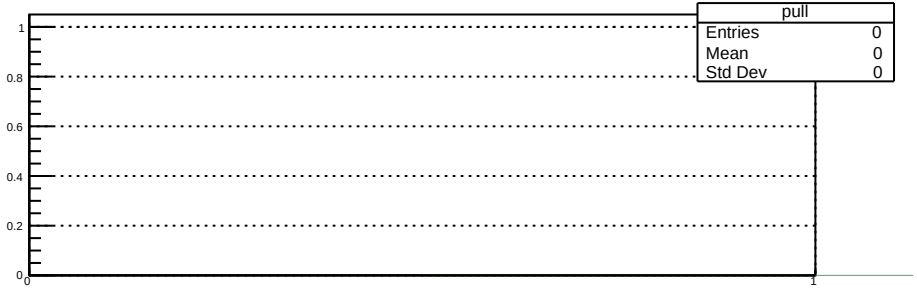

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 50.27 / 42
p0 −144.6 ± 176.2
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 412.9
Std Dev 388.9
3
2
1
0
−1
−2
−3

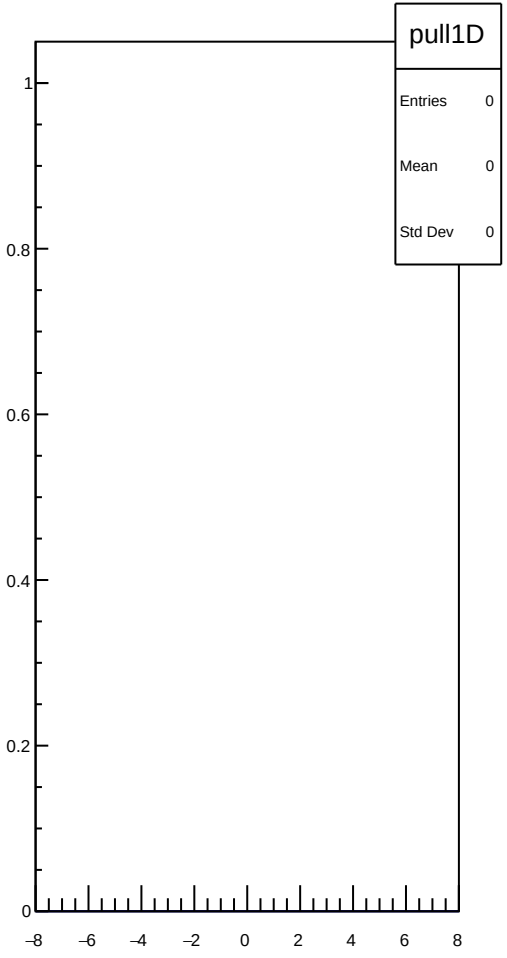

pull1D
Entries 43
Mean 0.004851
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

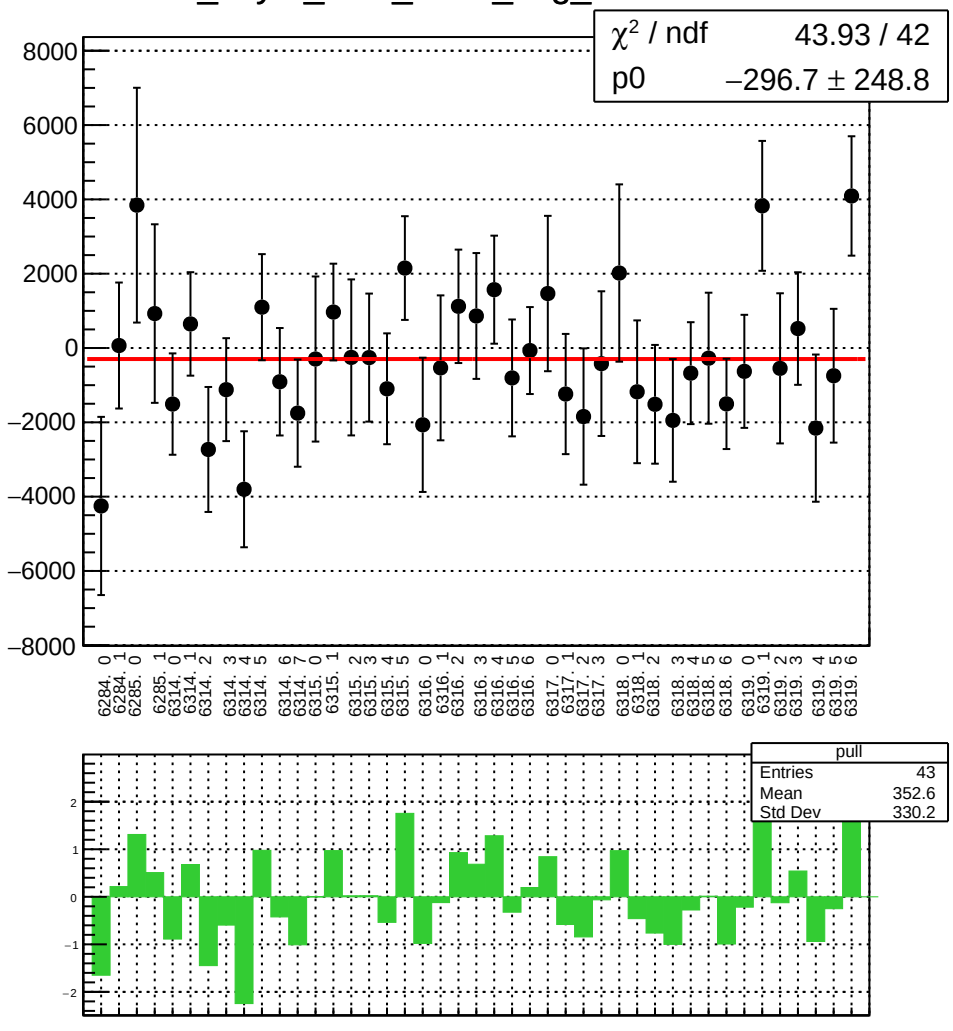

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.111e+04 / 42
p0 114.4 ± 0.1246
180
160
140
120
100
80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

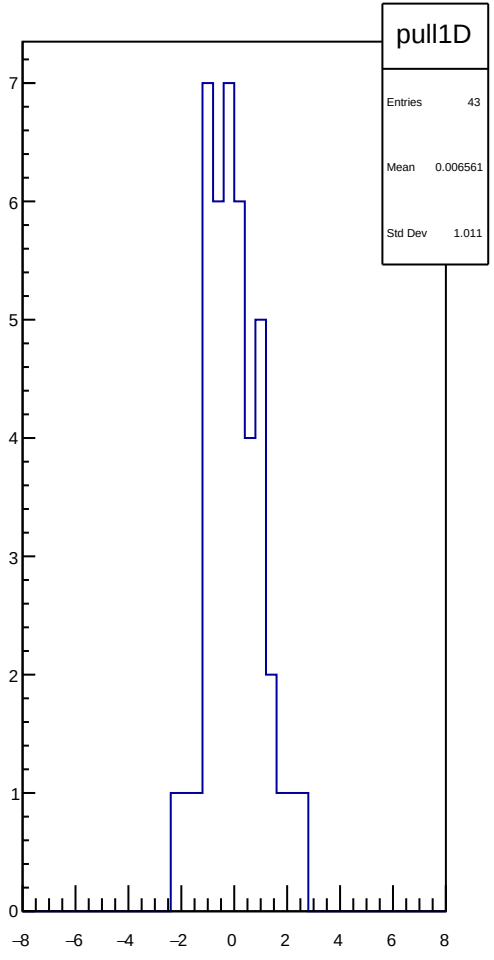

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

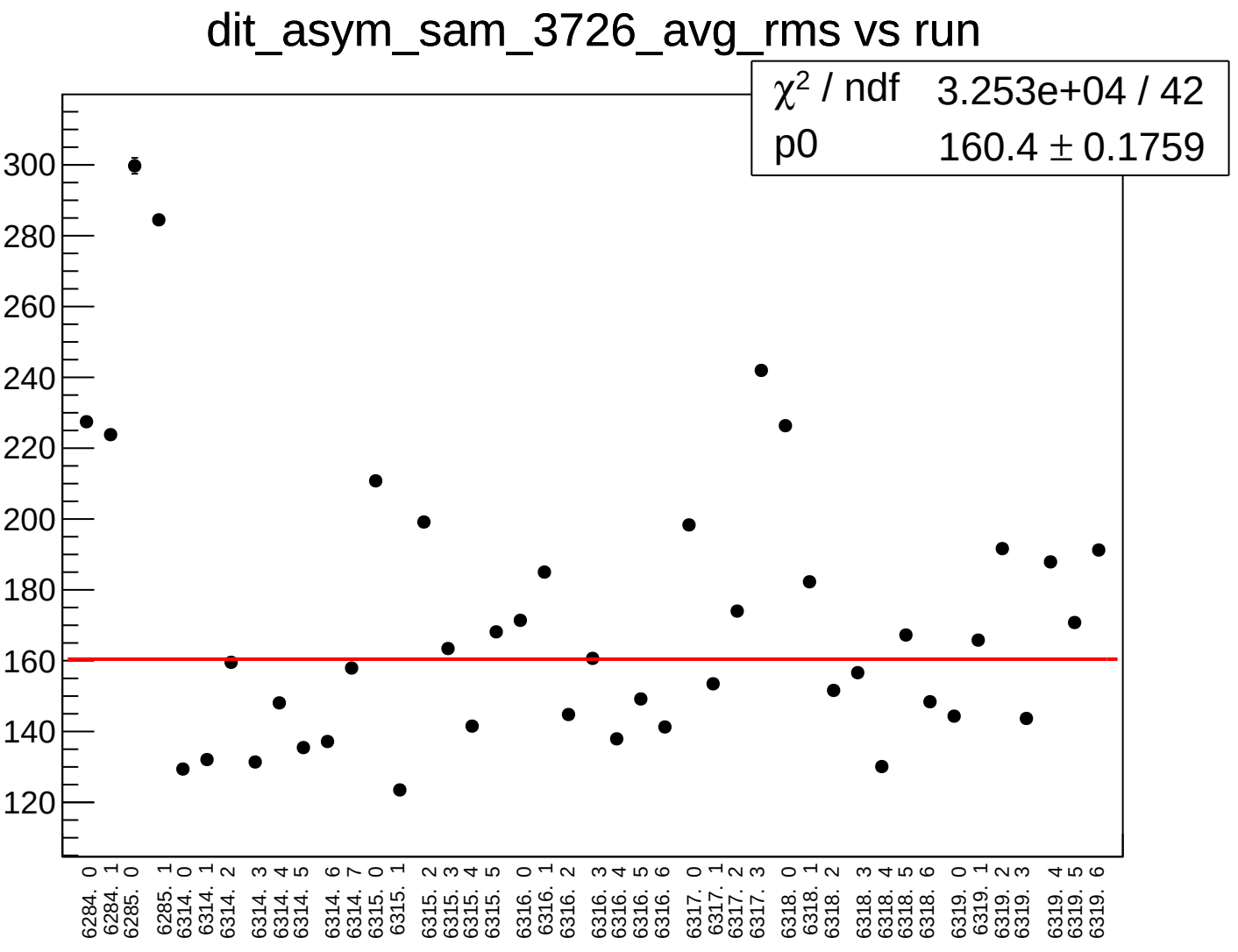

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

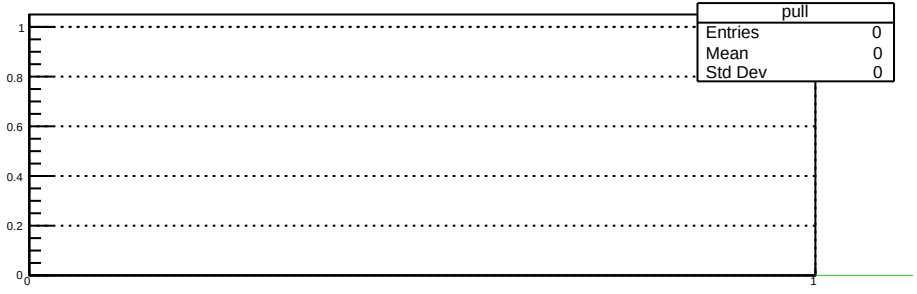

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

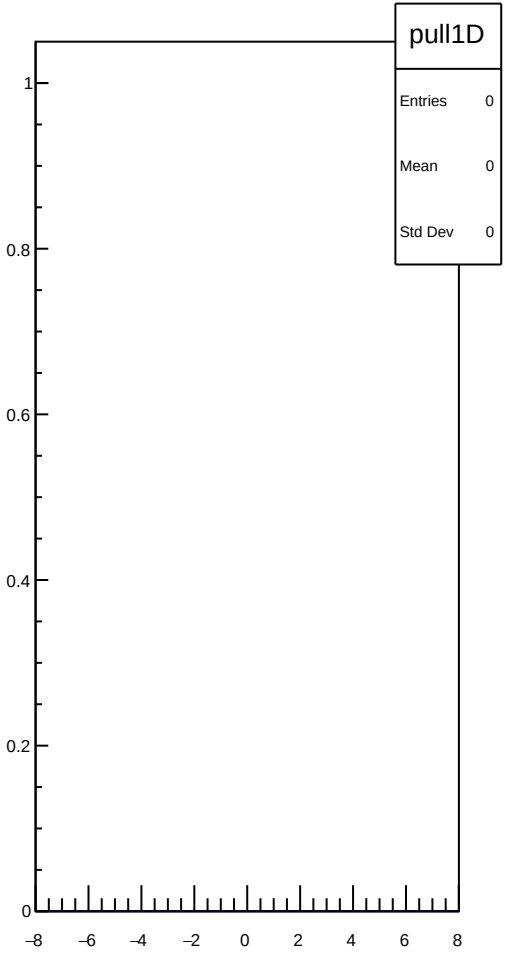

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

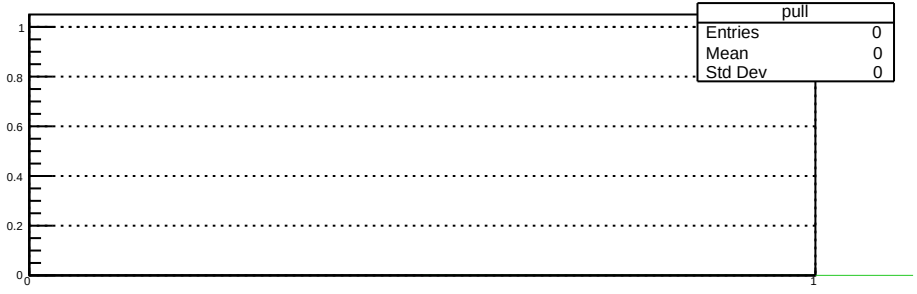

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 43.93 / 42
p0 −296.7 ± 248.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 352.6
Std Dev 330.2
2
1
0
−1
−2

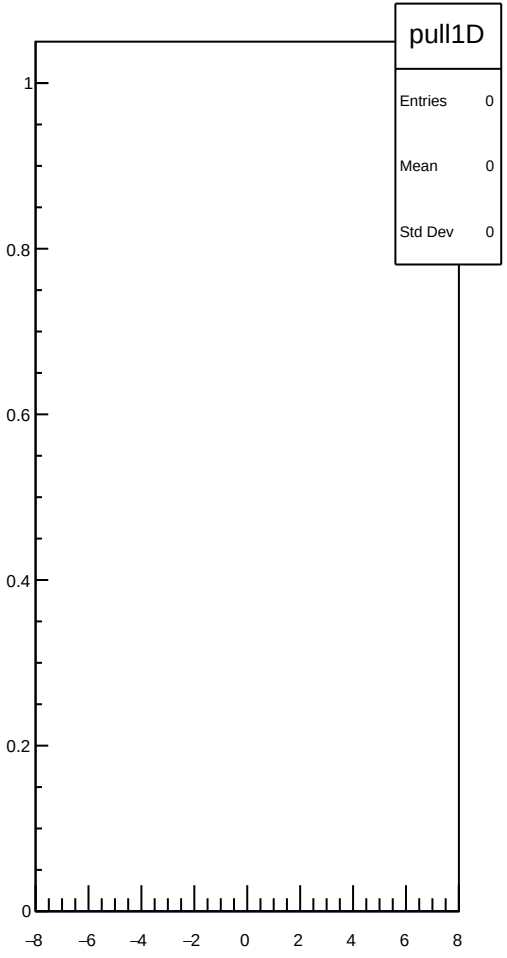

pull1D
Entries 43
Mean 0.006561
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

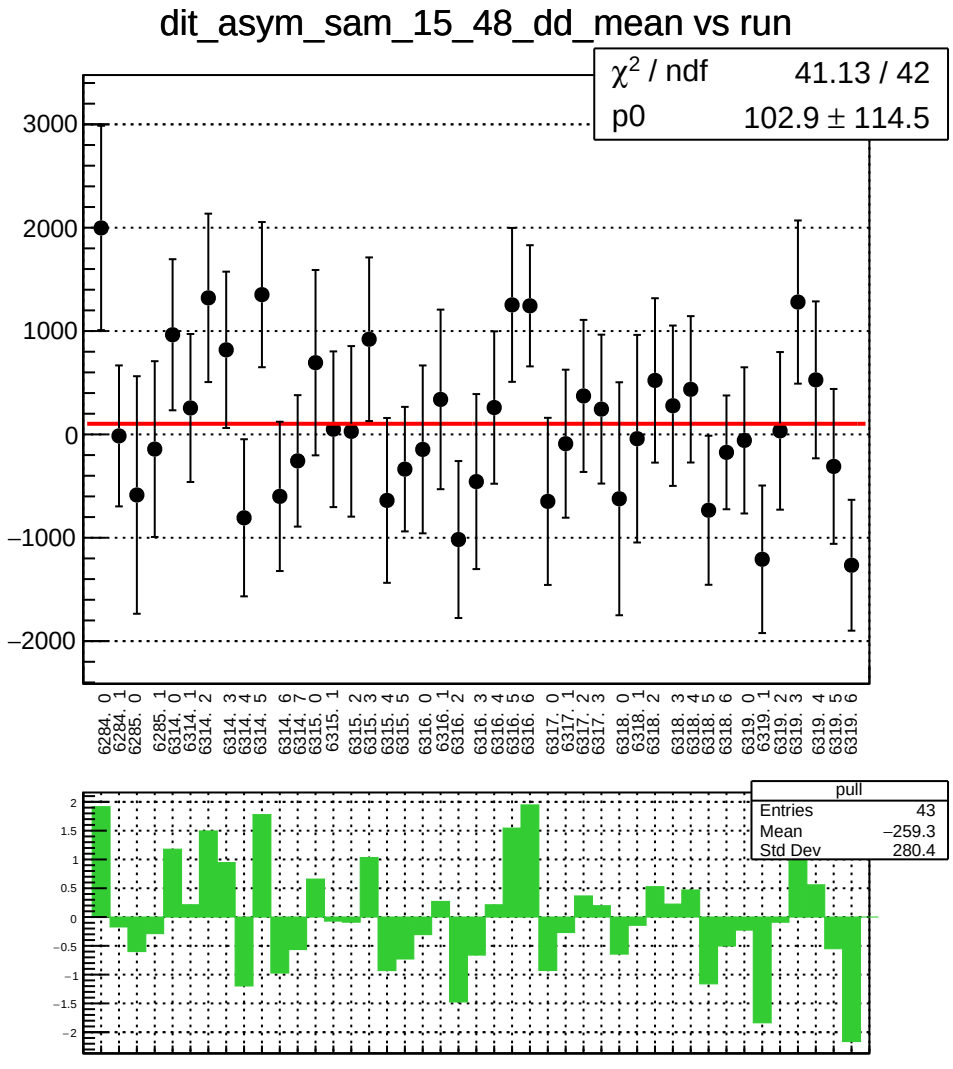

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.253e+04 / 42
p0 160.4 ± 0.1759
300
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

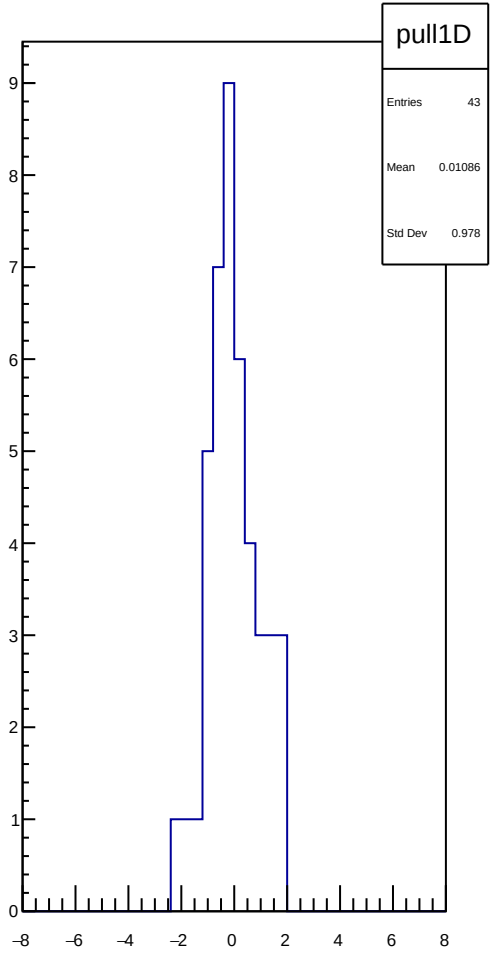

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

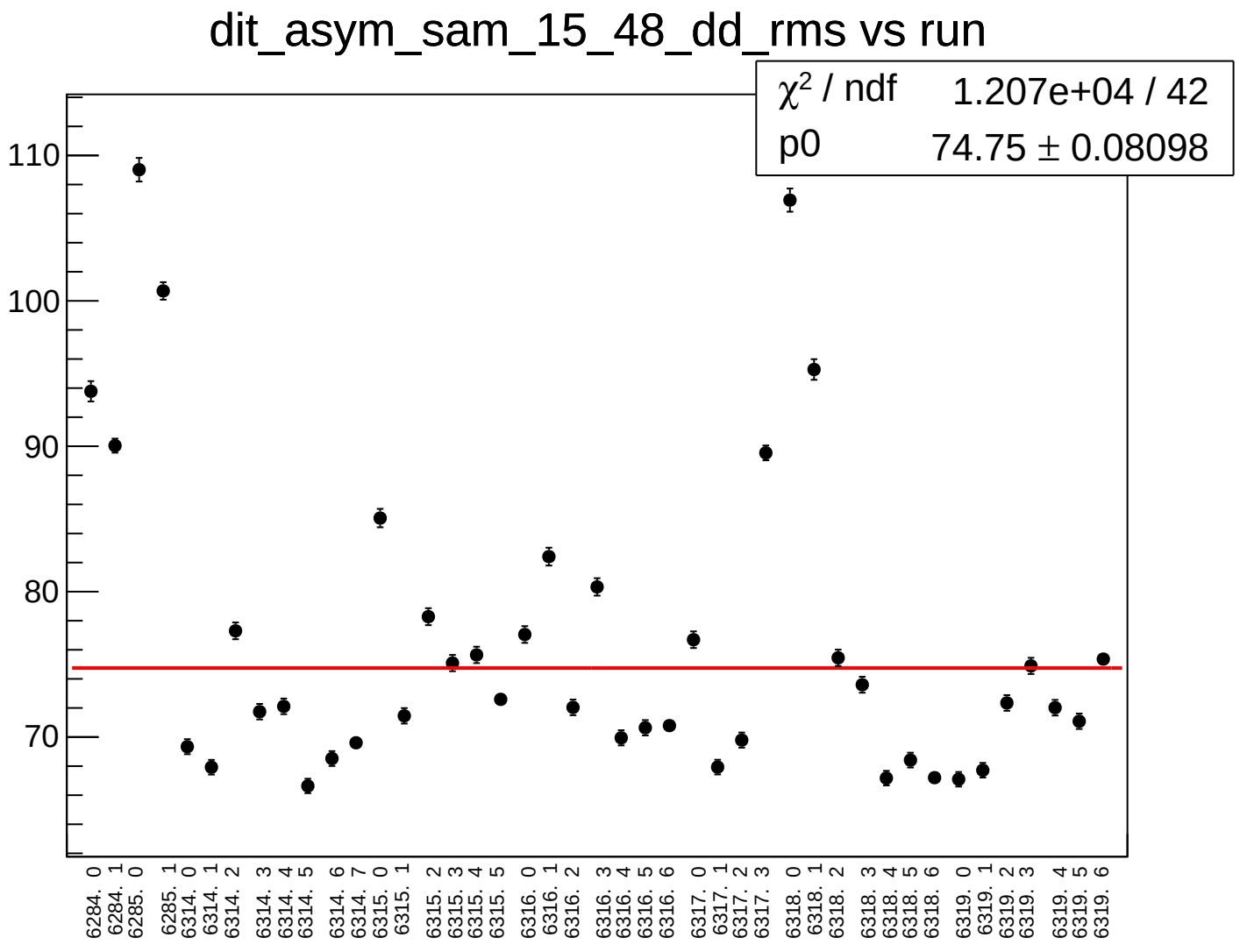

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

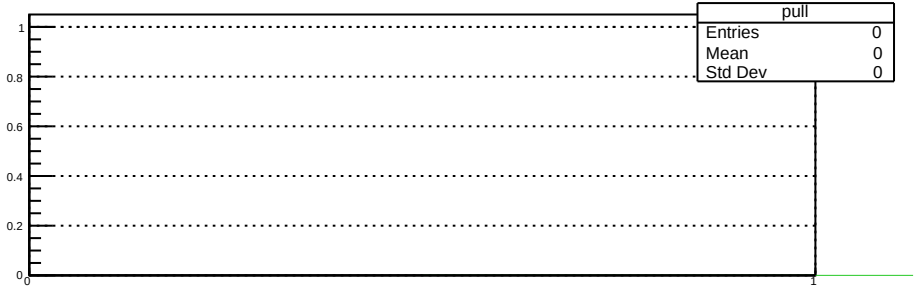

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

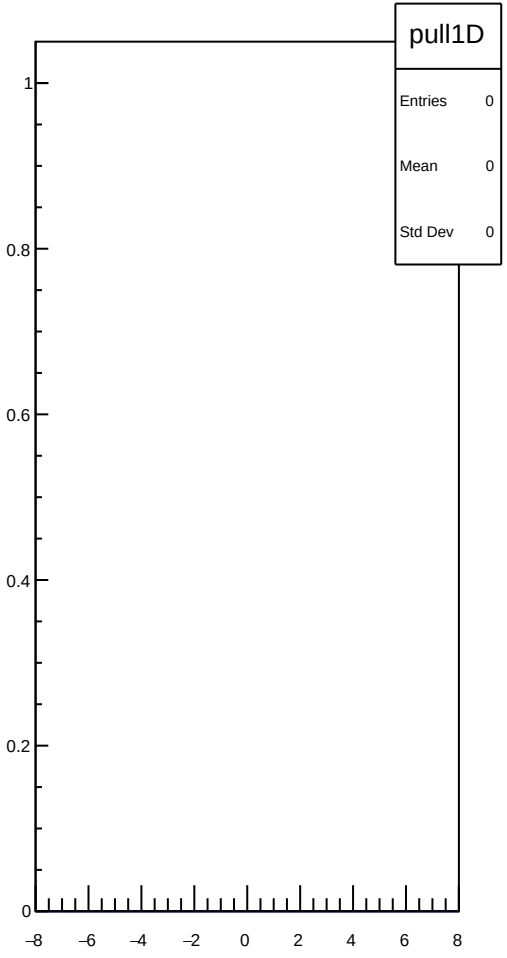

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

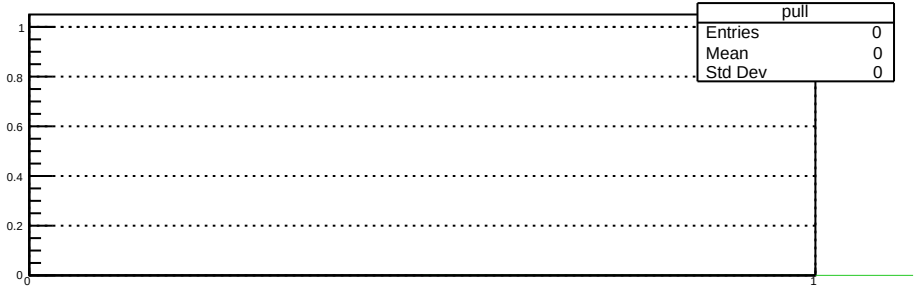

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 41.13 / 42
p0 102.9 ± 114.5
3000
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −259.3
Std Dev 280.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

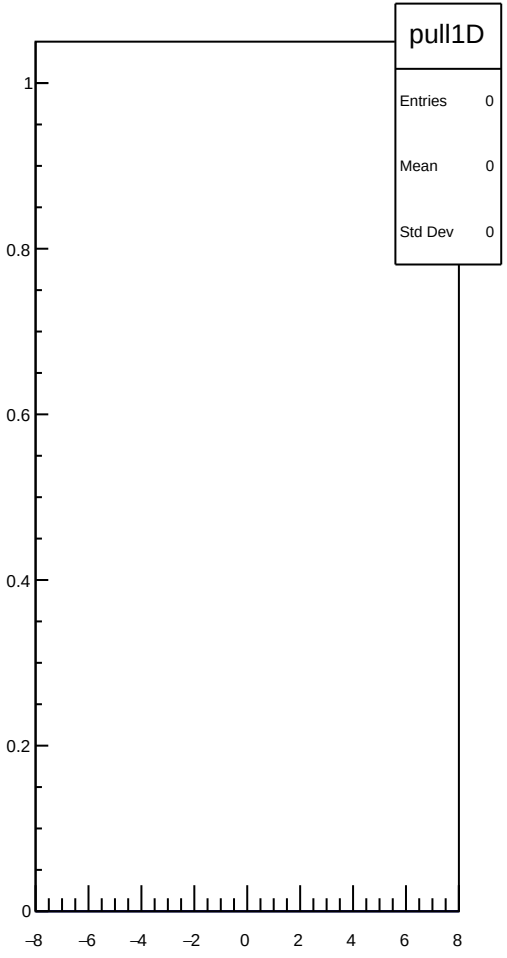

pull1D
Entries 43
Mean 0.01086
Std Dev 0.978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

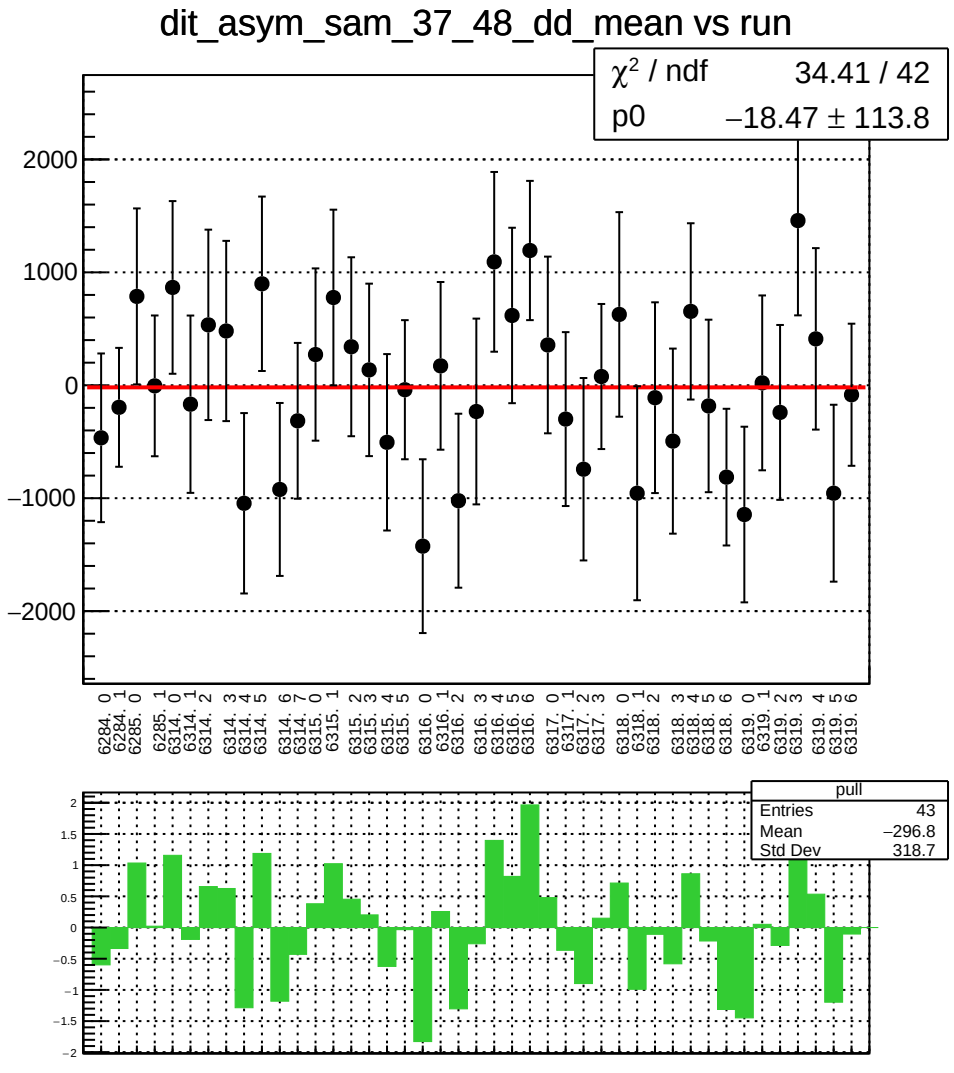

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.207e+04 / 42
p0 74.75 ± 0.08098
110
100
90
80
70
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

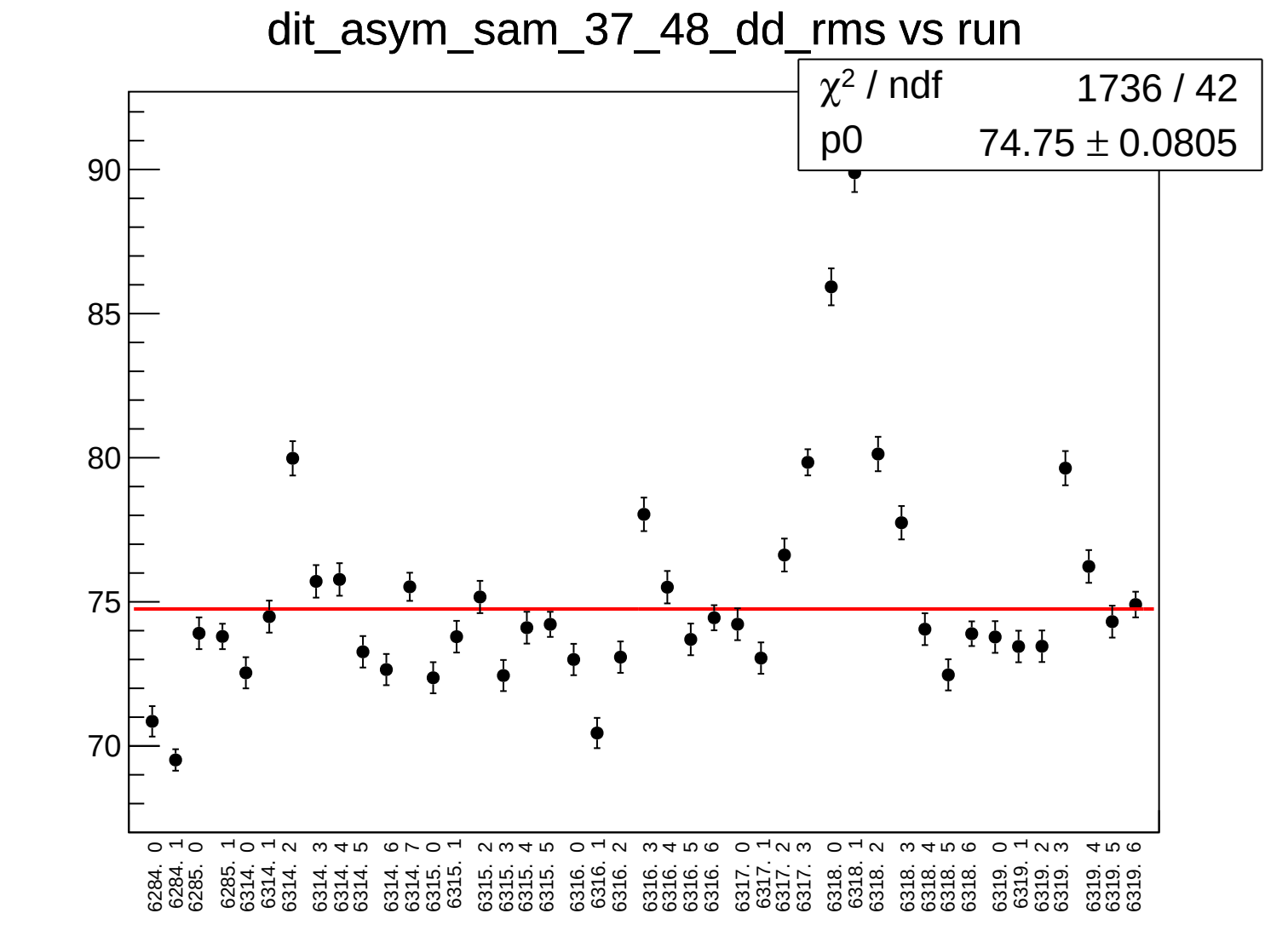

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

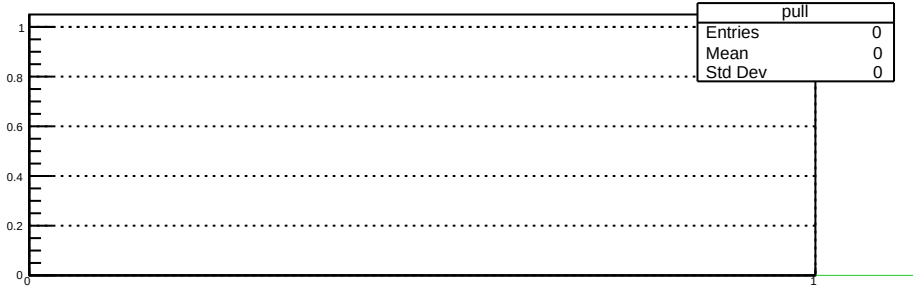

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

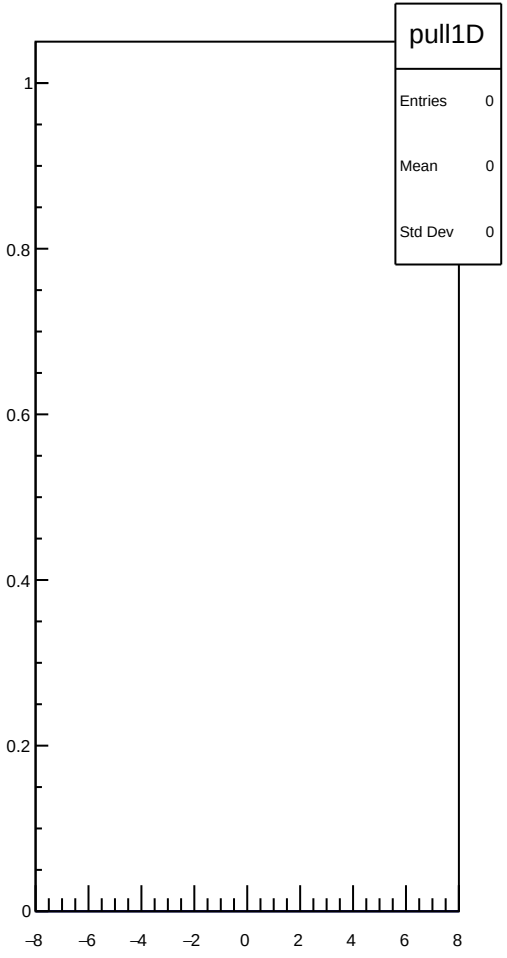

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

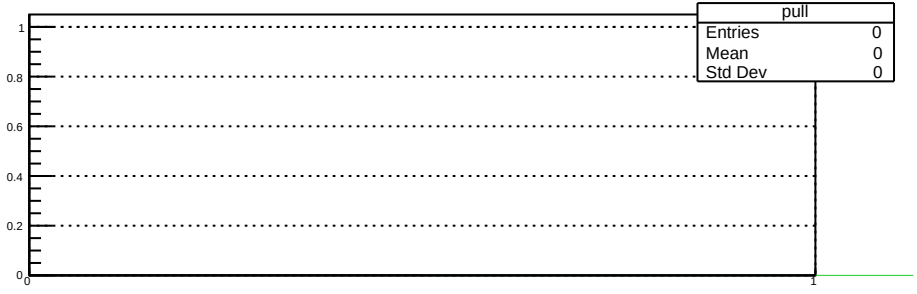

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

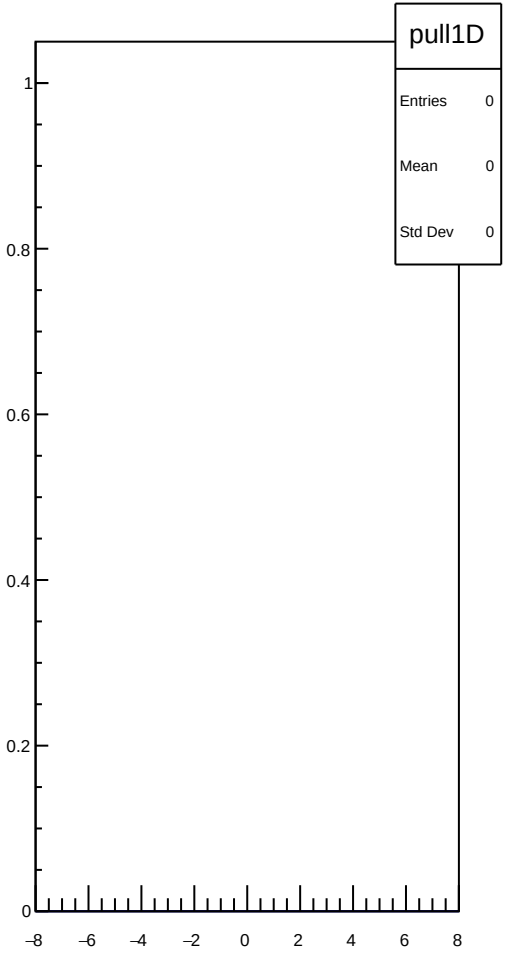

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 34.41 / 42
p0 −18.47 ± 113.8
2000
1000
0
−1000
−2000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −296.8
Std Dev 318.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.003627
Std Dev 0.8946
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

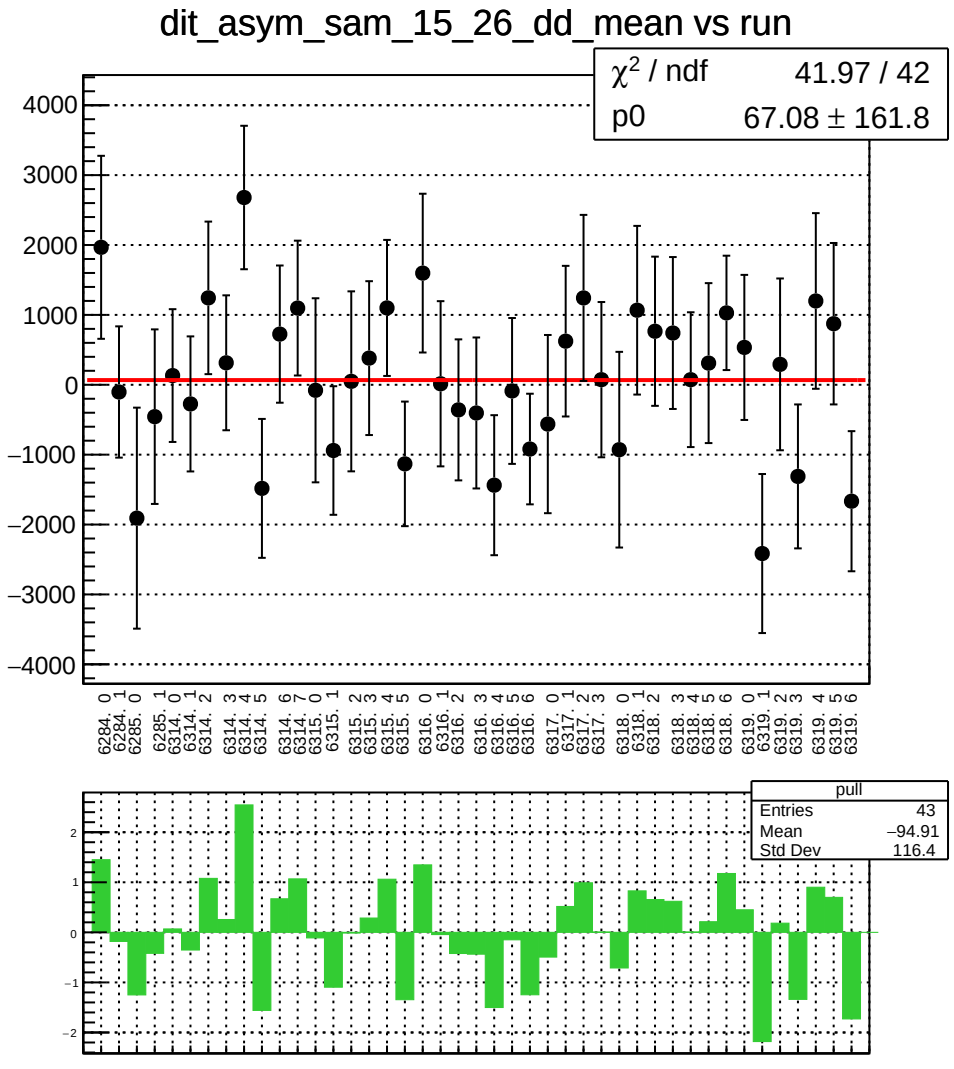

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1736 / 42
p0 74.75 ± 0.0805
90
85
80
75
70
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

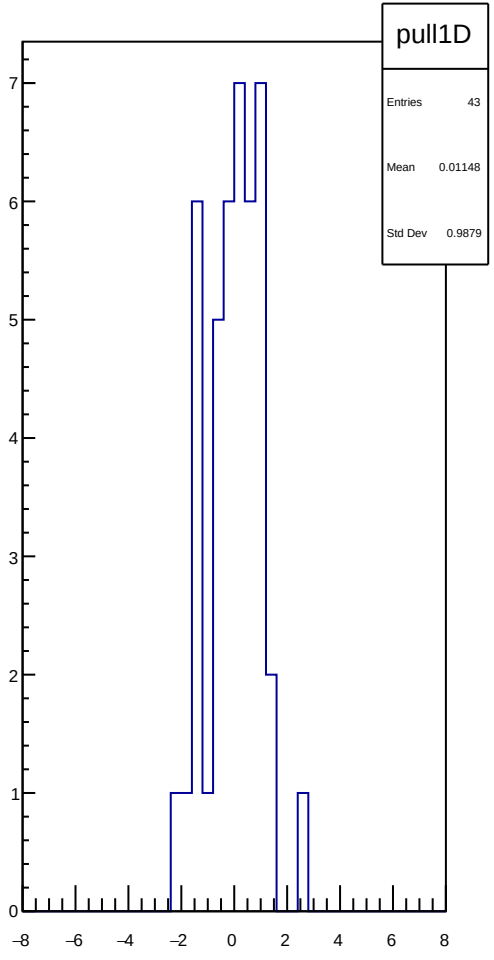

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

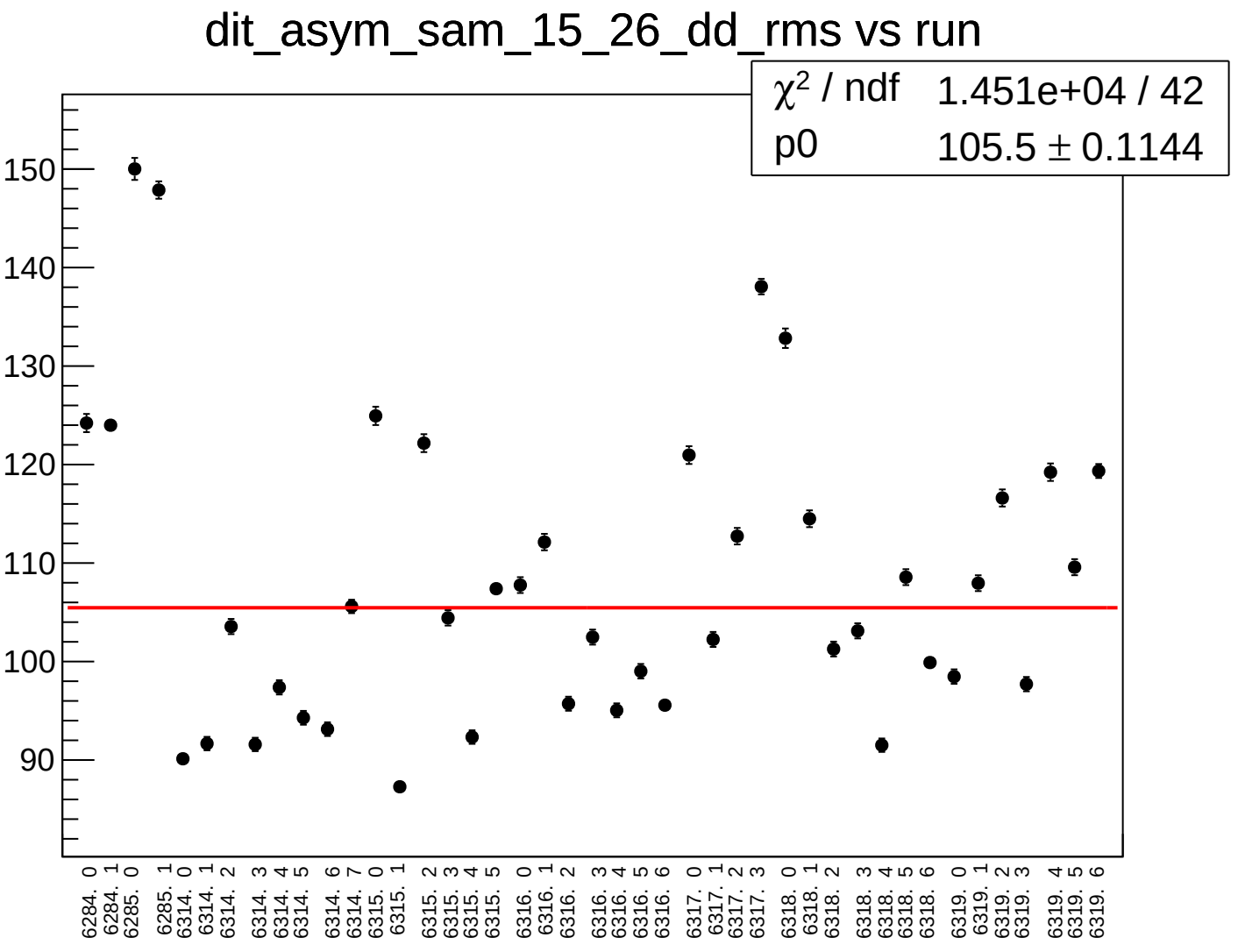

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

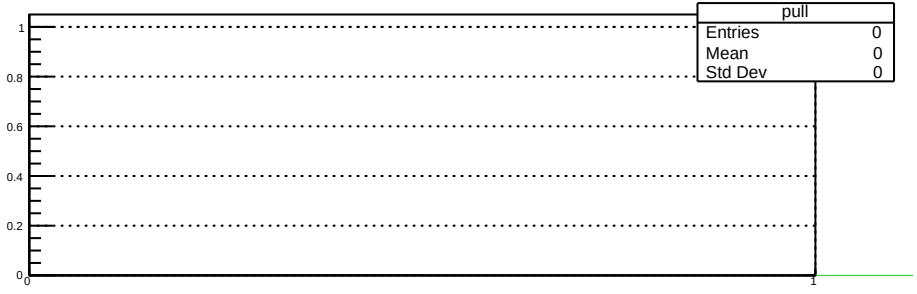

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

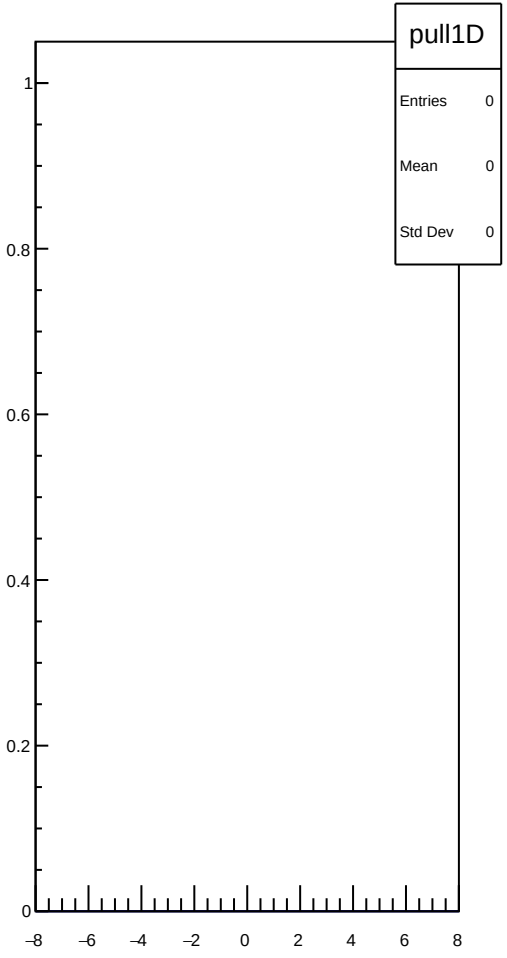

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

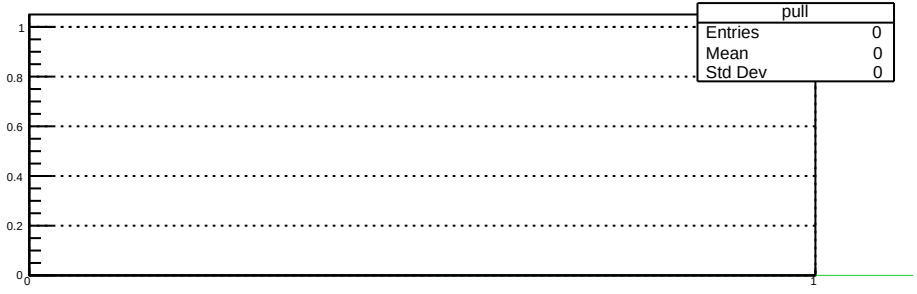

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 41.97 / 42
p0 67.08 ± 161.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −94.91
Std Dev 116.4
2
1
0
−1
−2

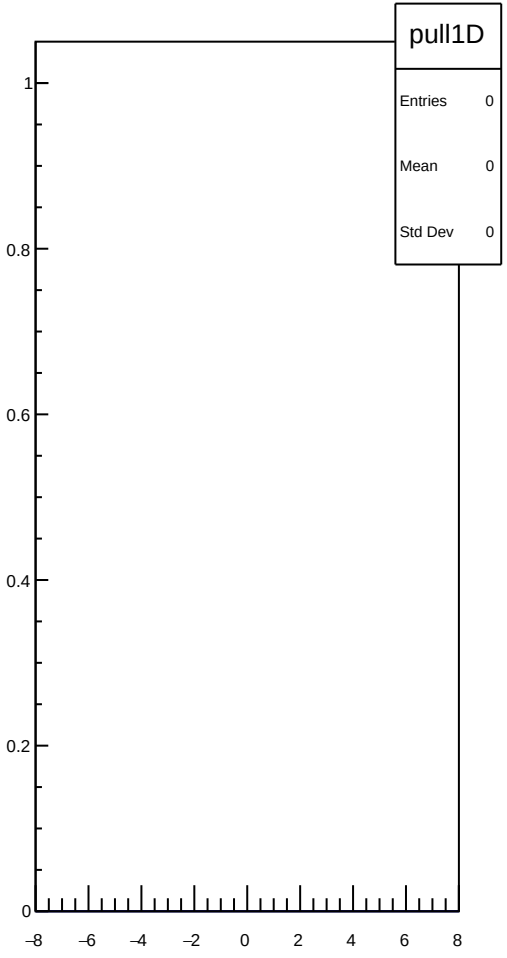

pull1D
Entries 43
Mean 0.01148
Std Dev 0.9879
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

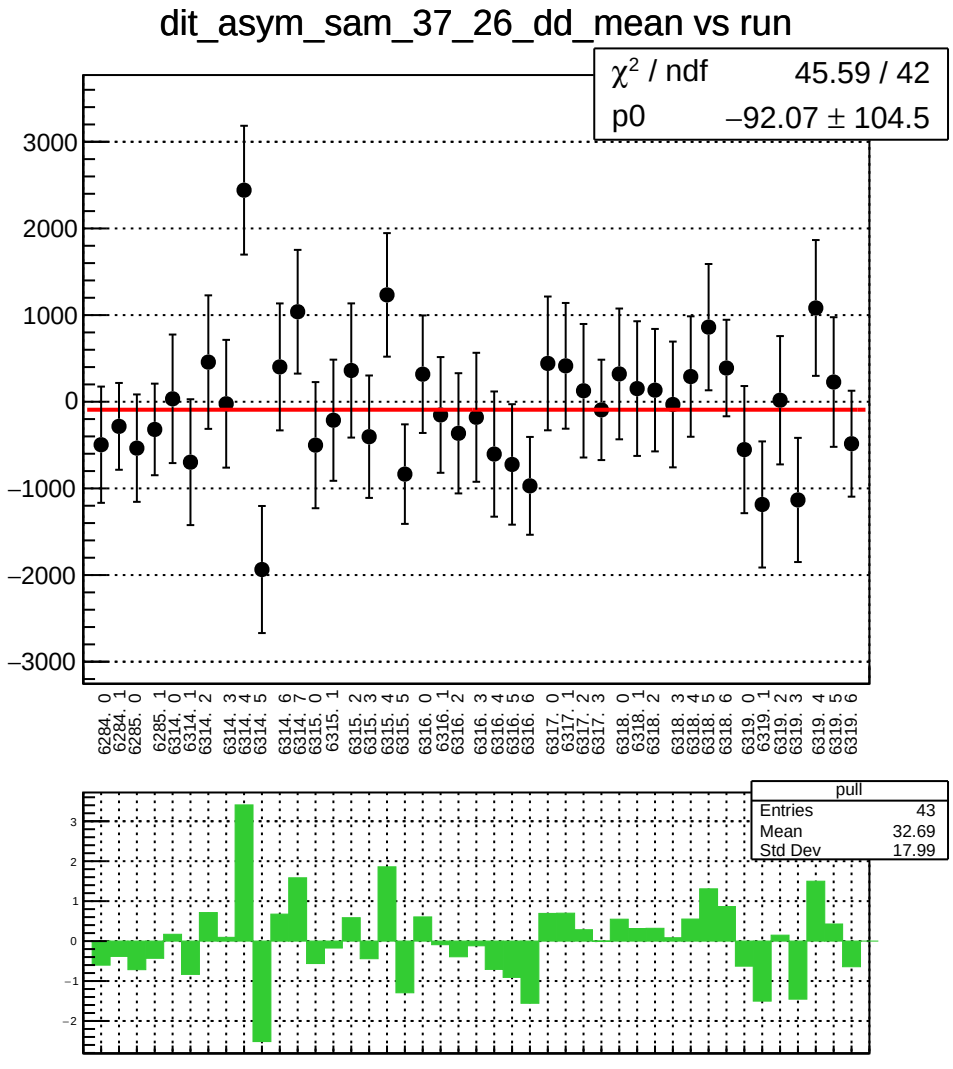

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.451e+04 / 42
p0 105.5 ± 0.1144
150
140
130
120
110
100
90
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

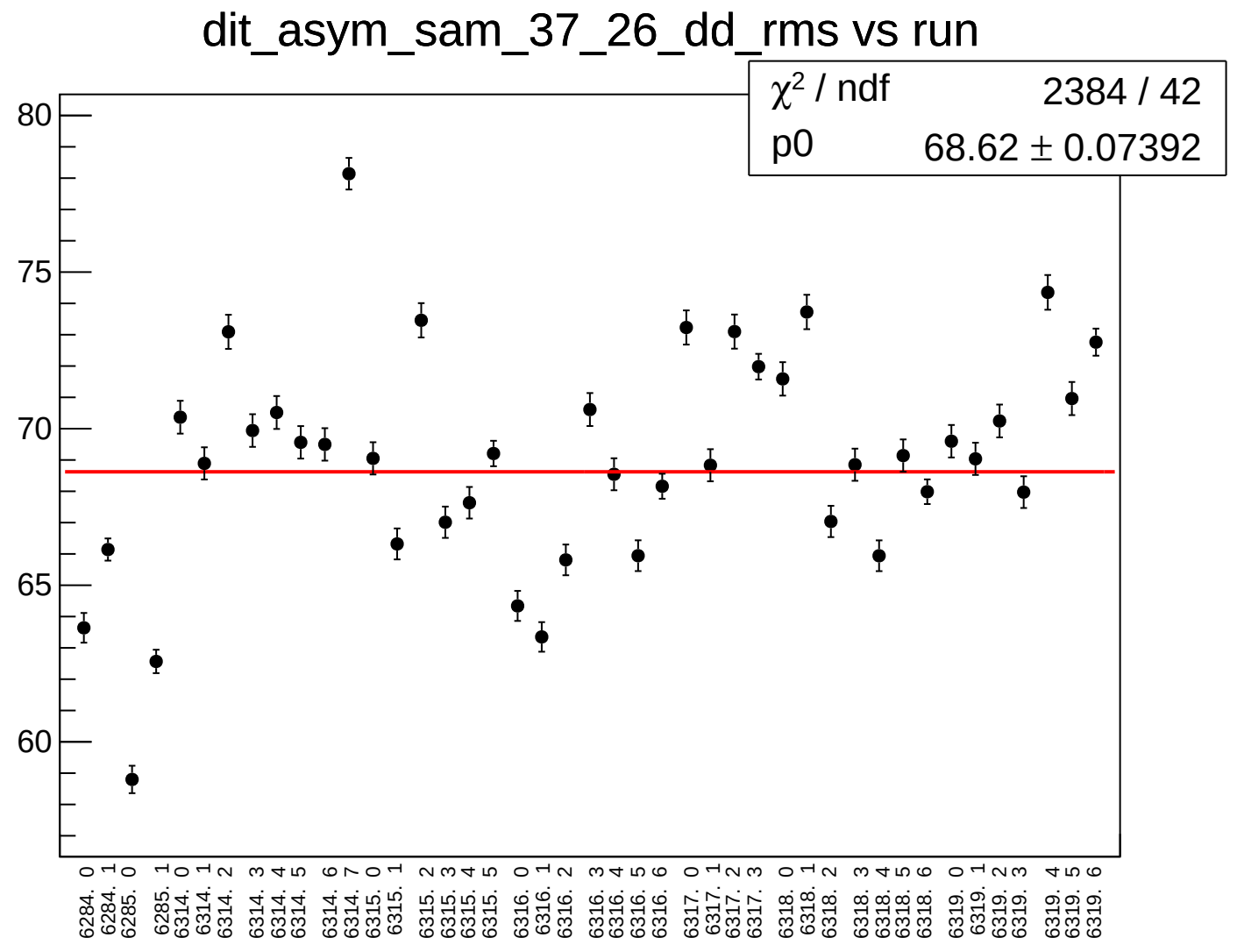

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

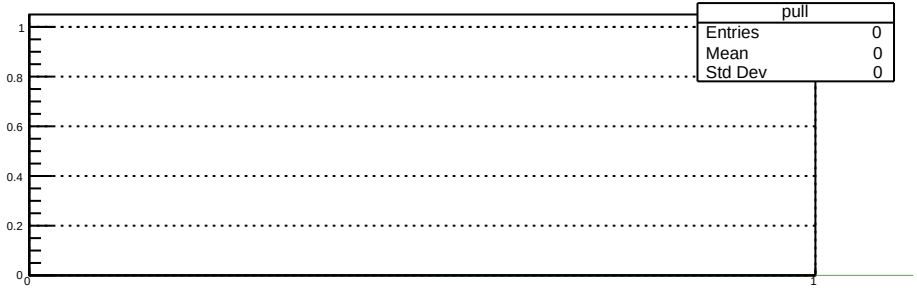

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

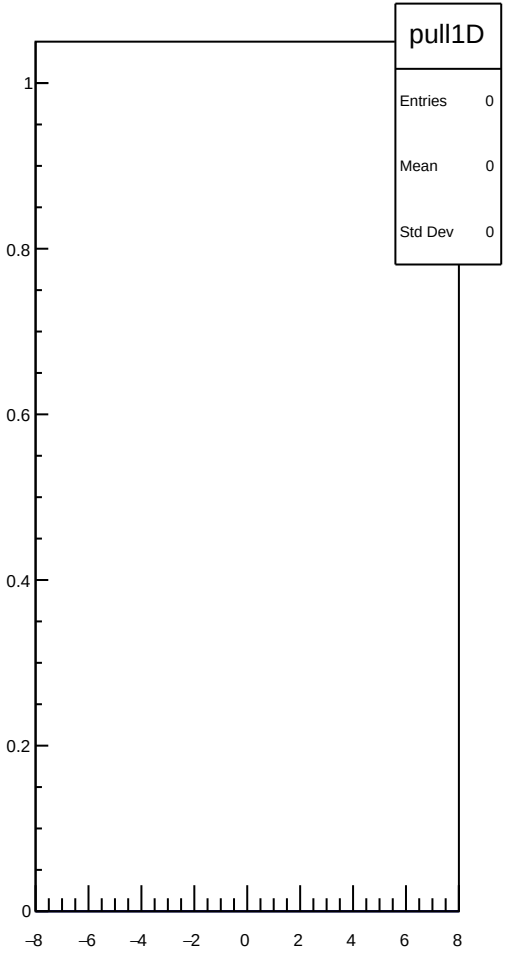

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

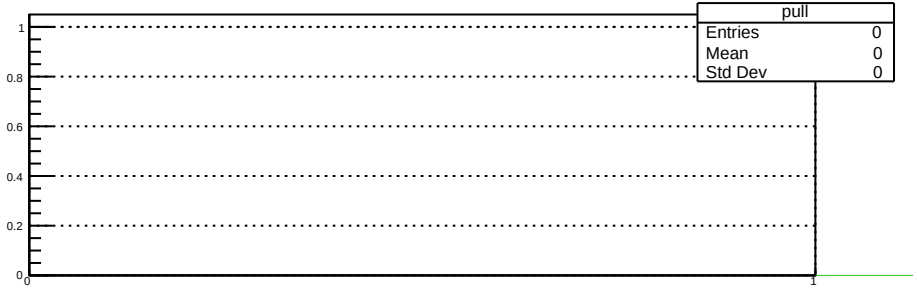

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

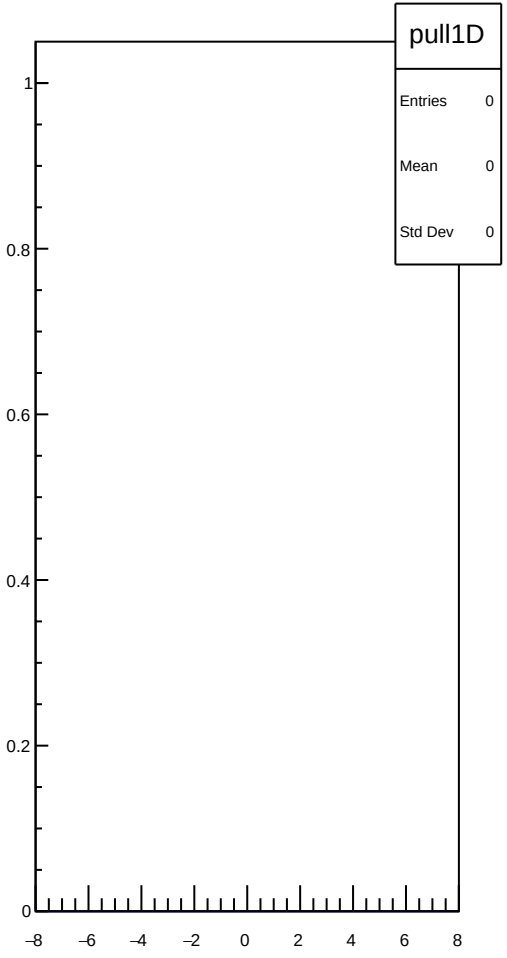

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 45.59 / 42
p0 −92.07 ± 104.5
3000
2000
1000
0
−1000
−2000
−3000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 32.69
Std Dev 17.99
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03442
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

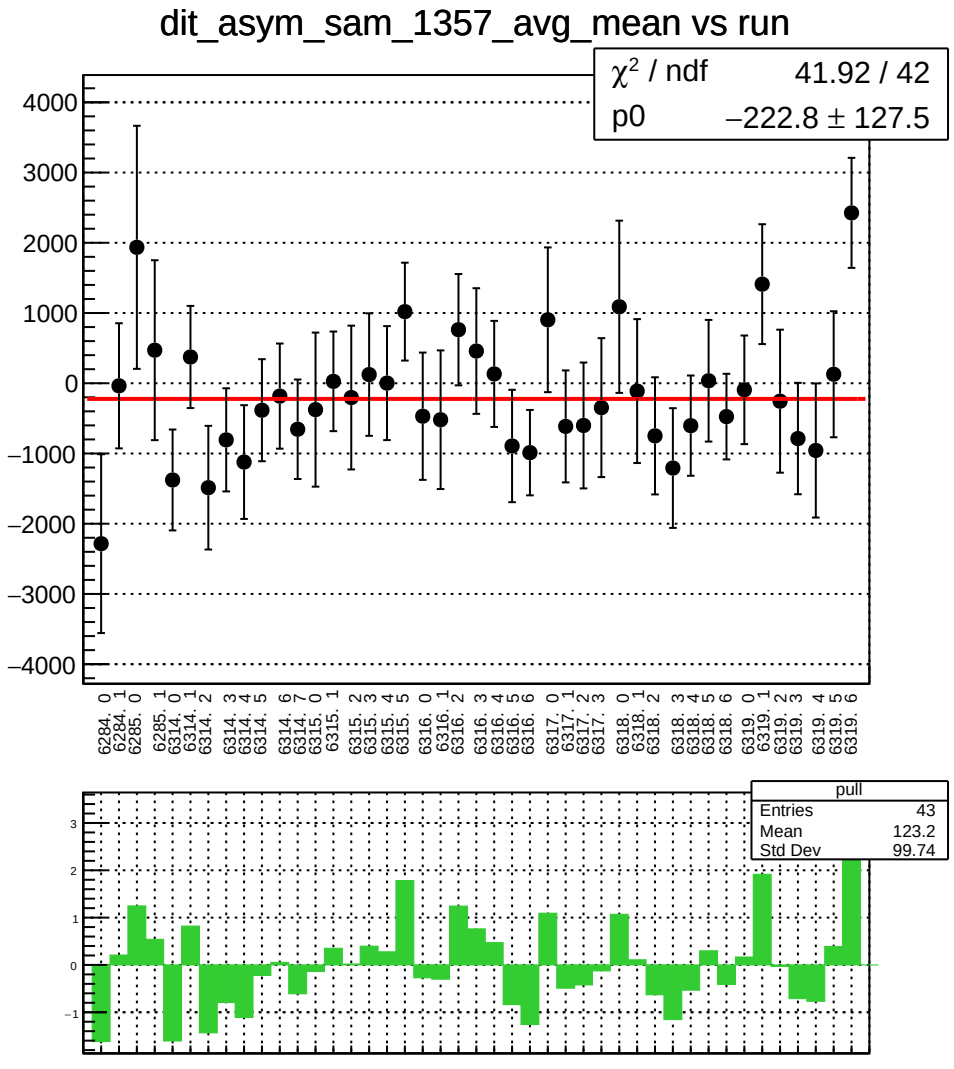

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2384 / 42
p0 68.62 ± 0.07392
80
75
70
65
60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

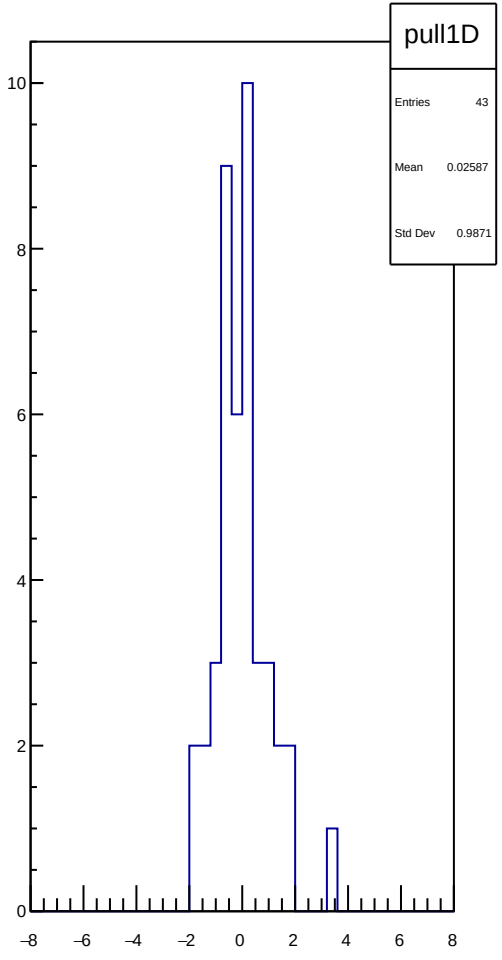

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

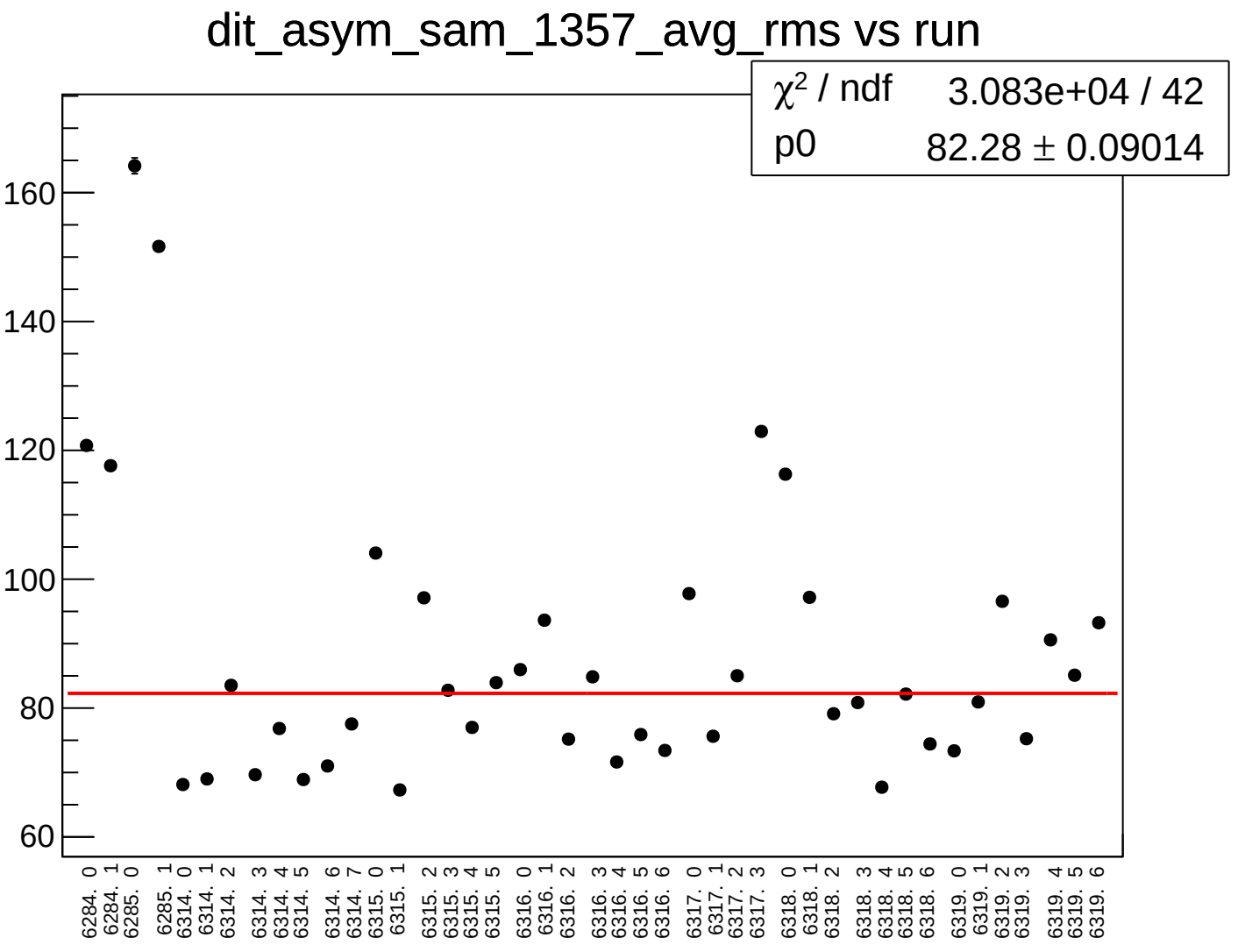

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

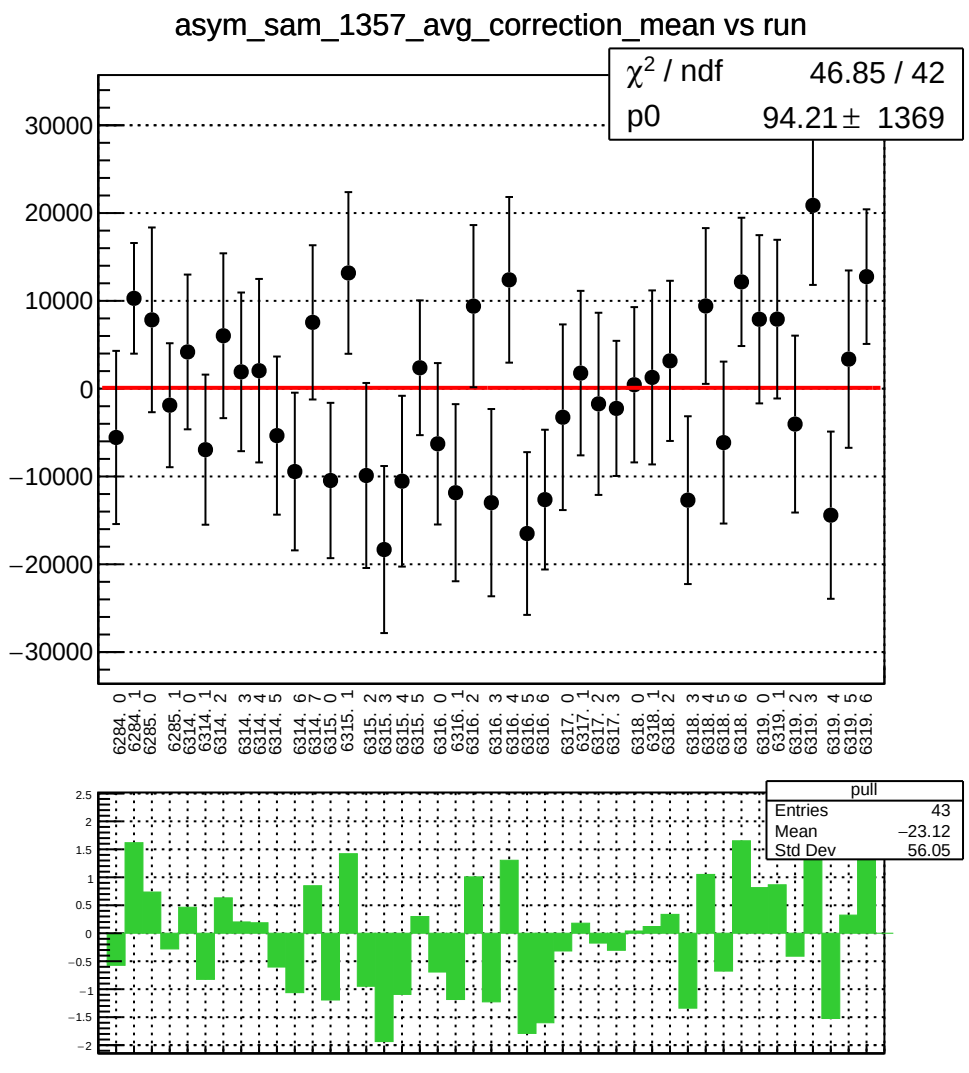

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

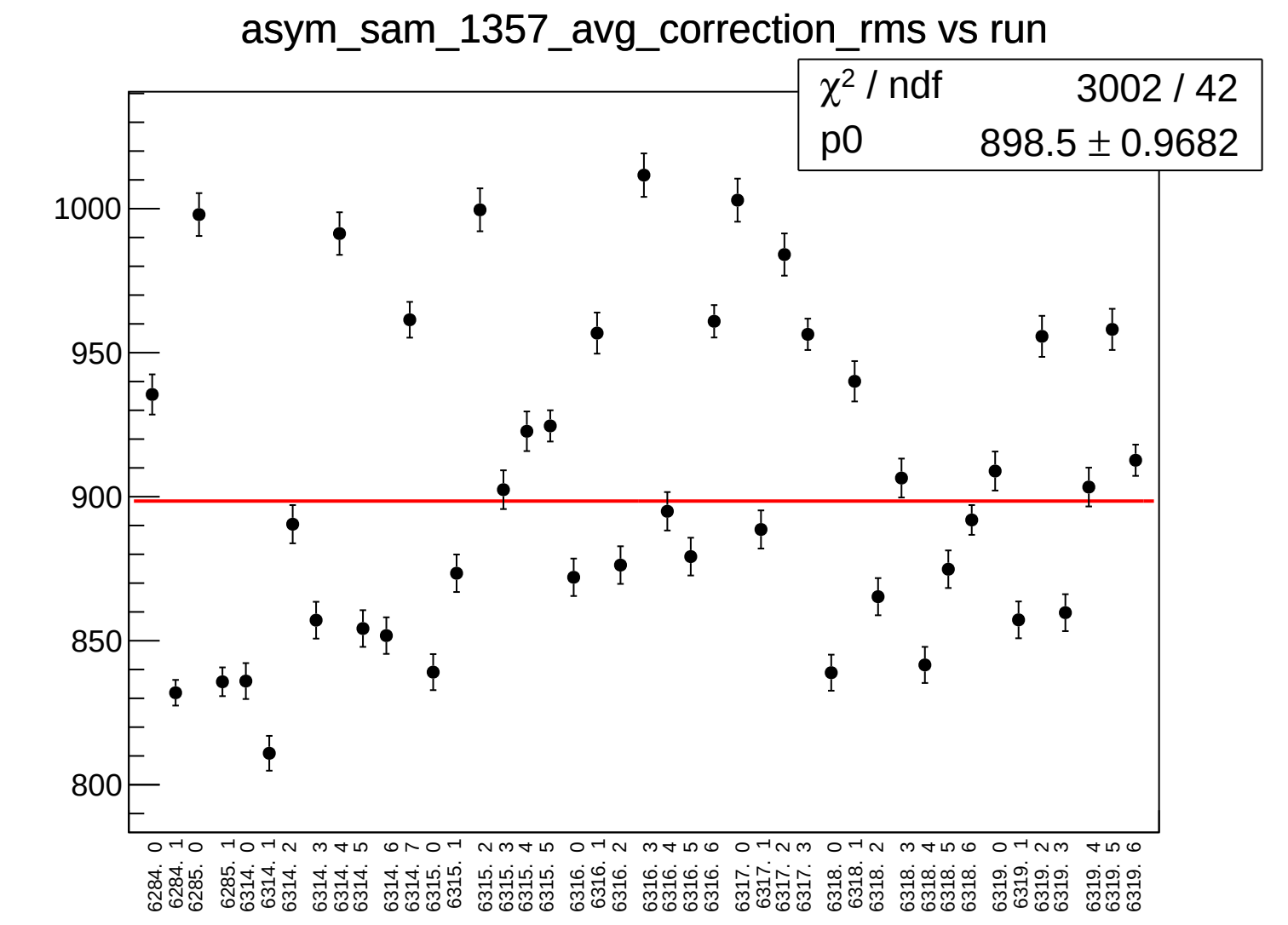

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

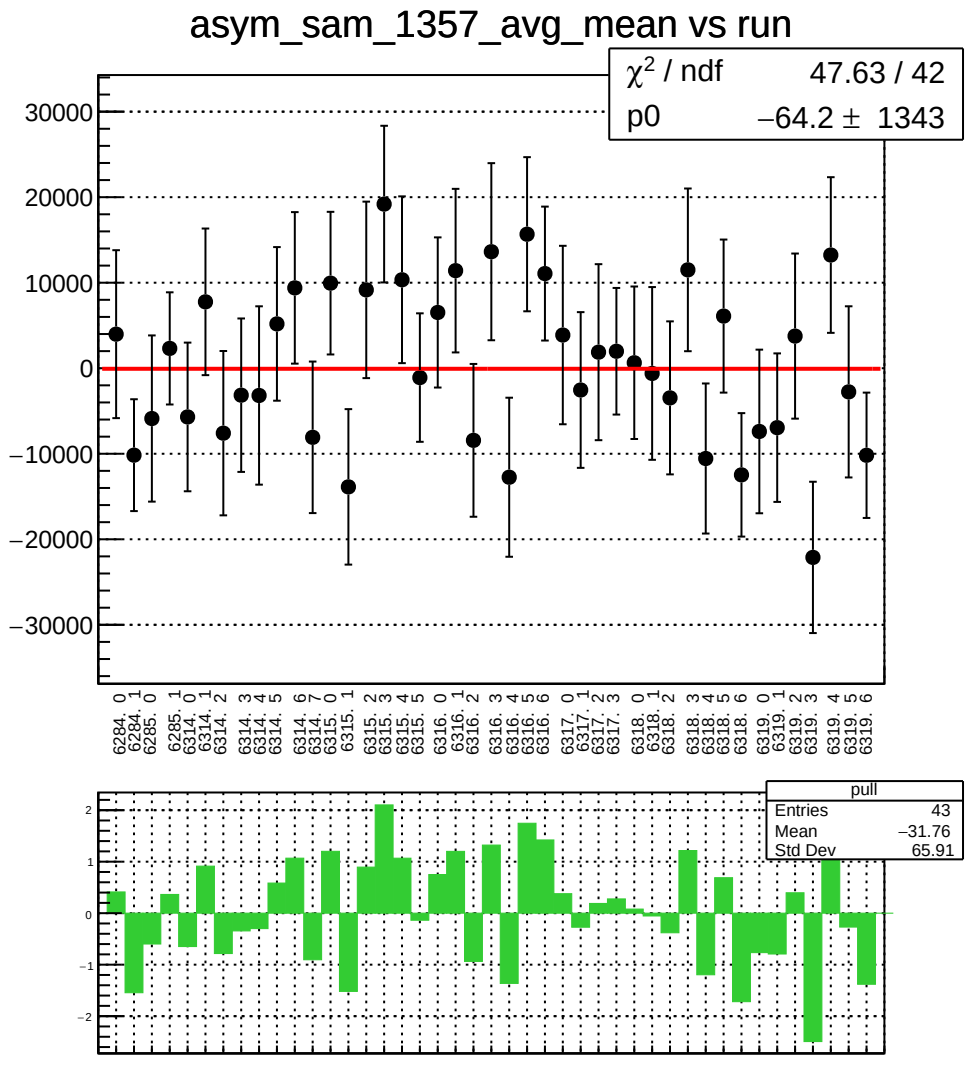

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 41.92 / 42
p0 −222.8 ± 127.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 123.2
Std Dev 99.74
3
2
1
0
−1

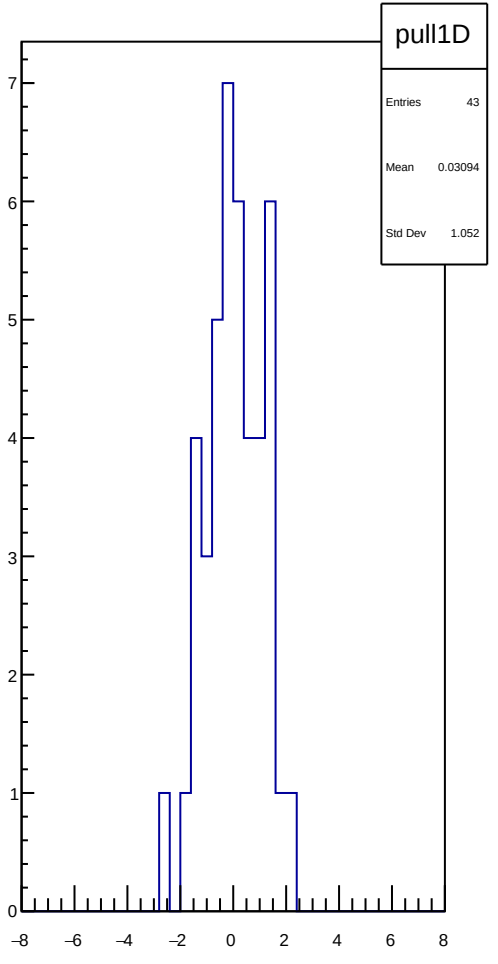

pull1D
Entries 43
Mean 0.02587
Std Dev 0.9871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

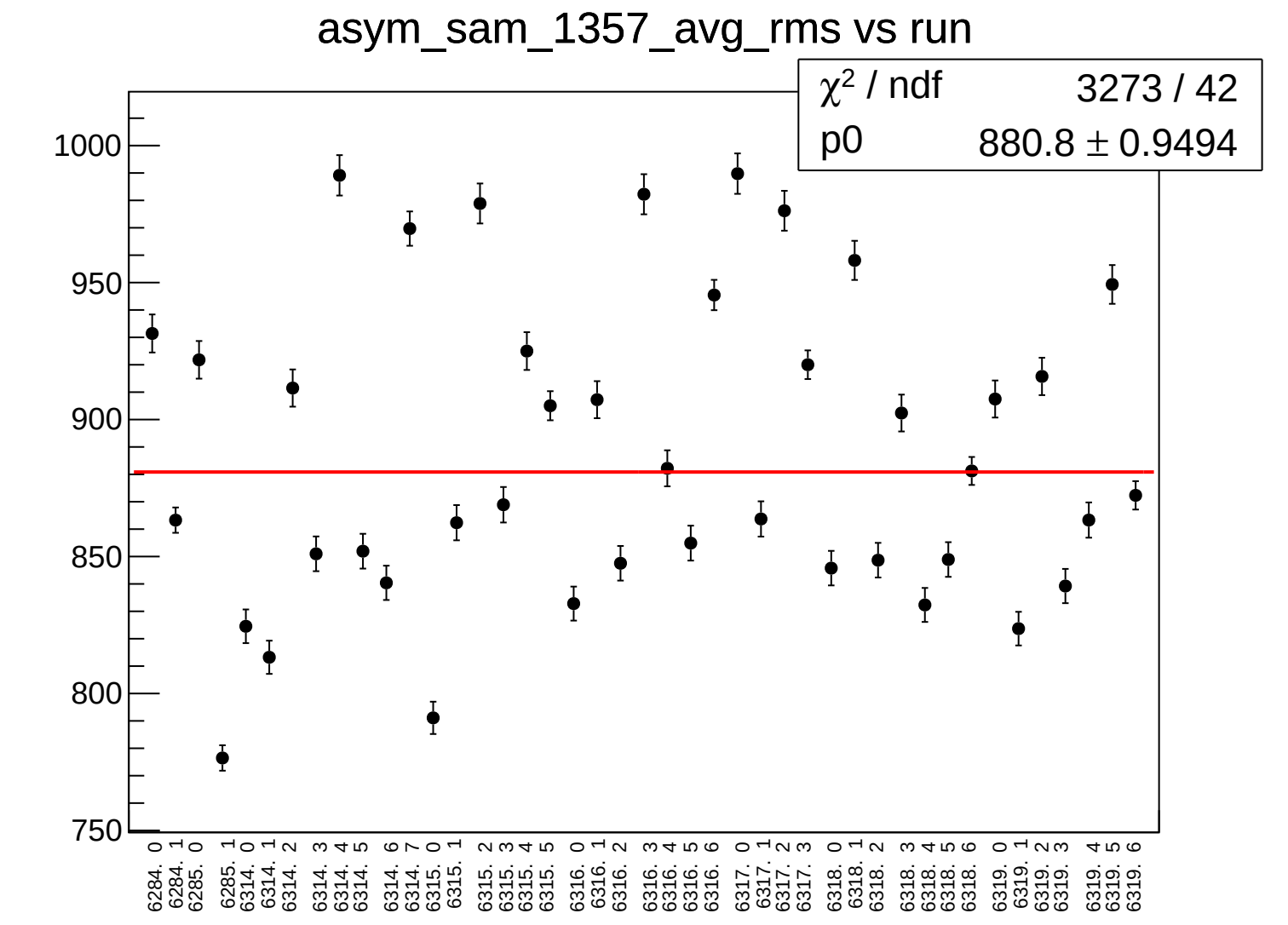

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.083e+04 / 42
p0 82.28 ± 0.09014
160
140
120
100
80
60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

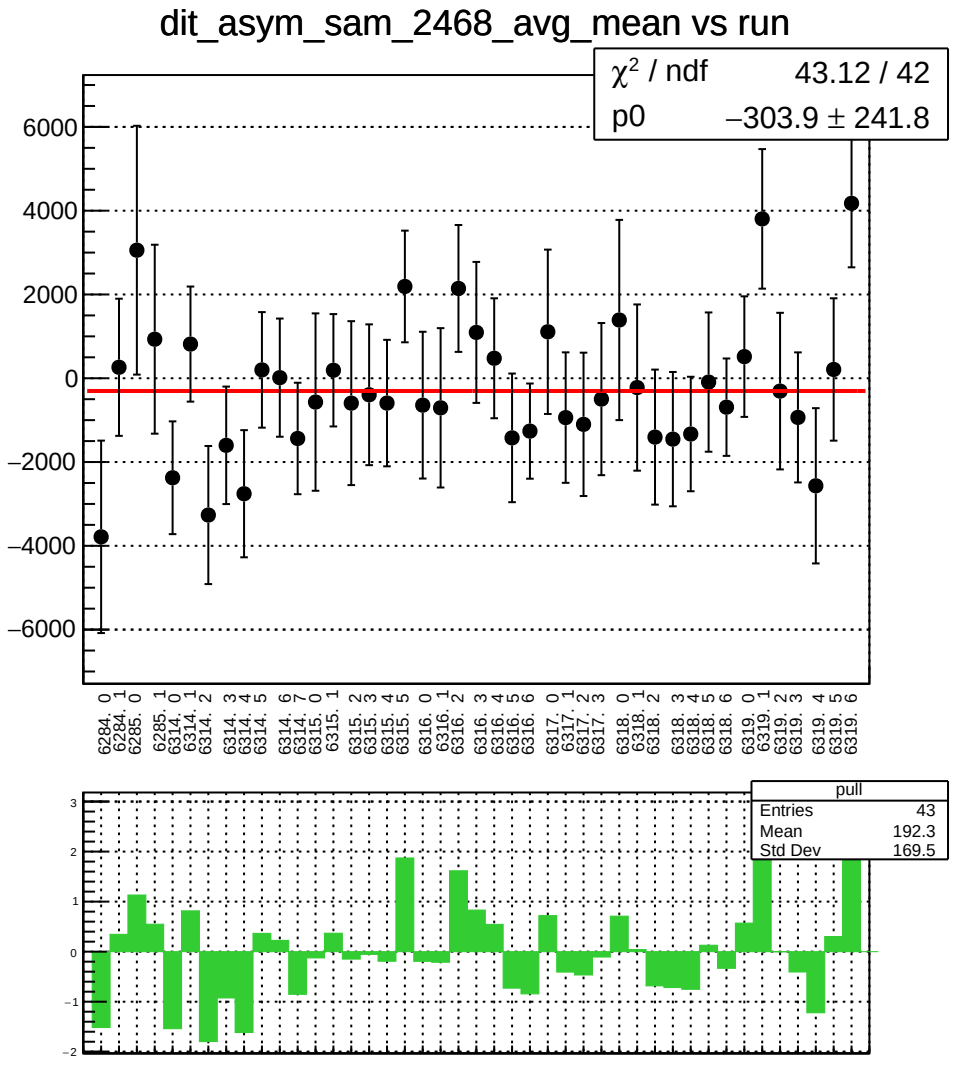

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 46.85 / 42
p0 94.21 ± 1369
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −23.12
Std Dev 56.05
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03963
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

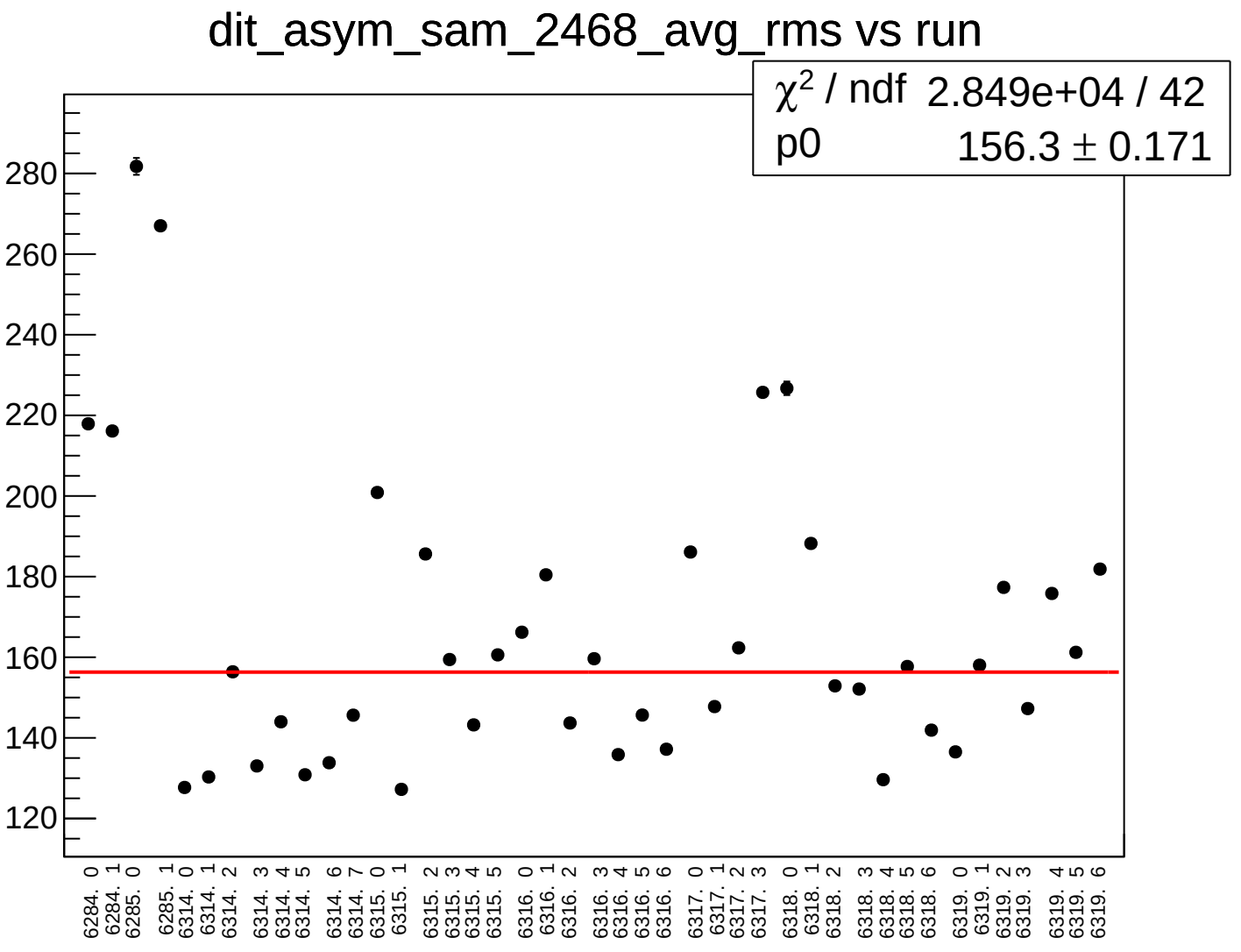

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3002 / 42
p0 898.5 ± 0.9682
1000
950
900
850
800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

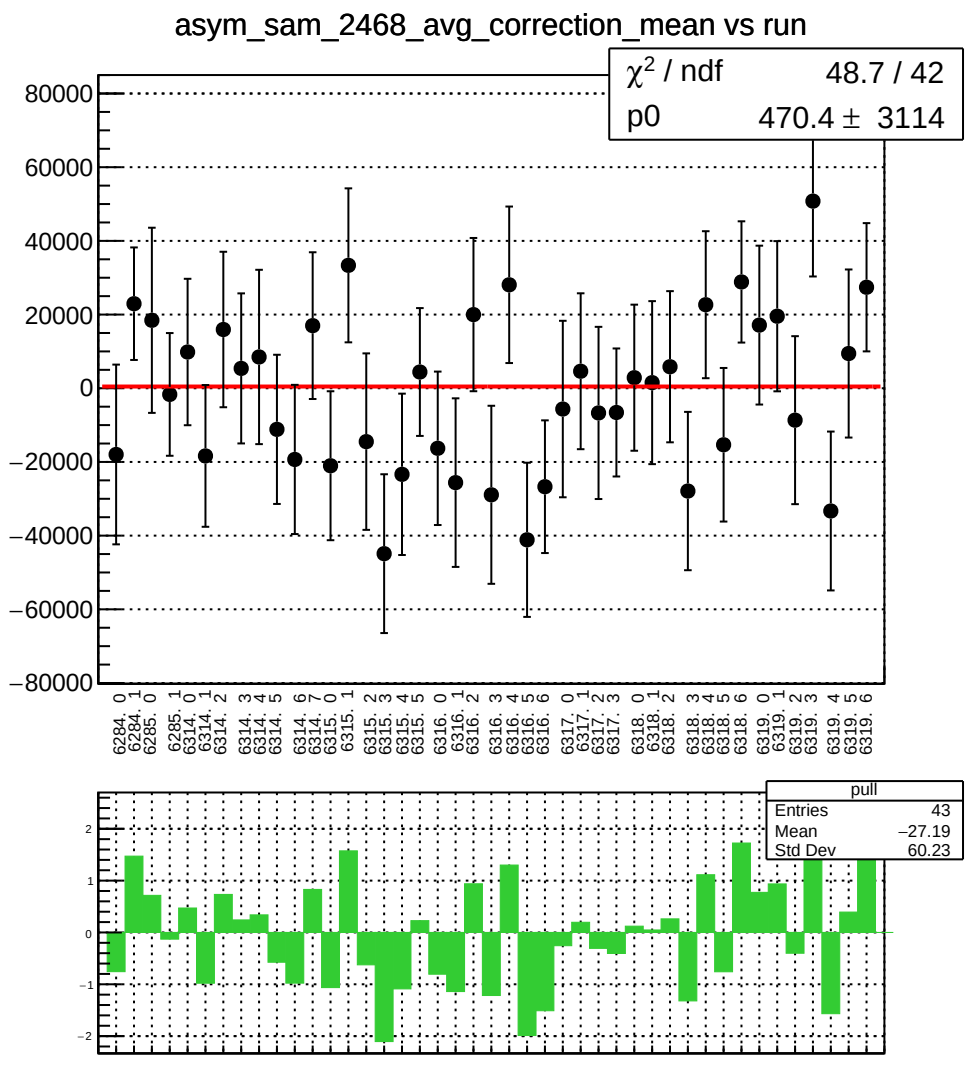

asym_sam_1357_avg_mean vs run
χ² / ndf 47.63 / 42
p0 −64.2 ± 1343
30000
20000
10000
0
−10000
−20000
−30000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −31.76
Std Dev 65.91
2
1
0
−1
−2

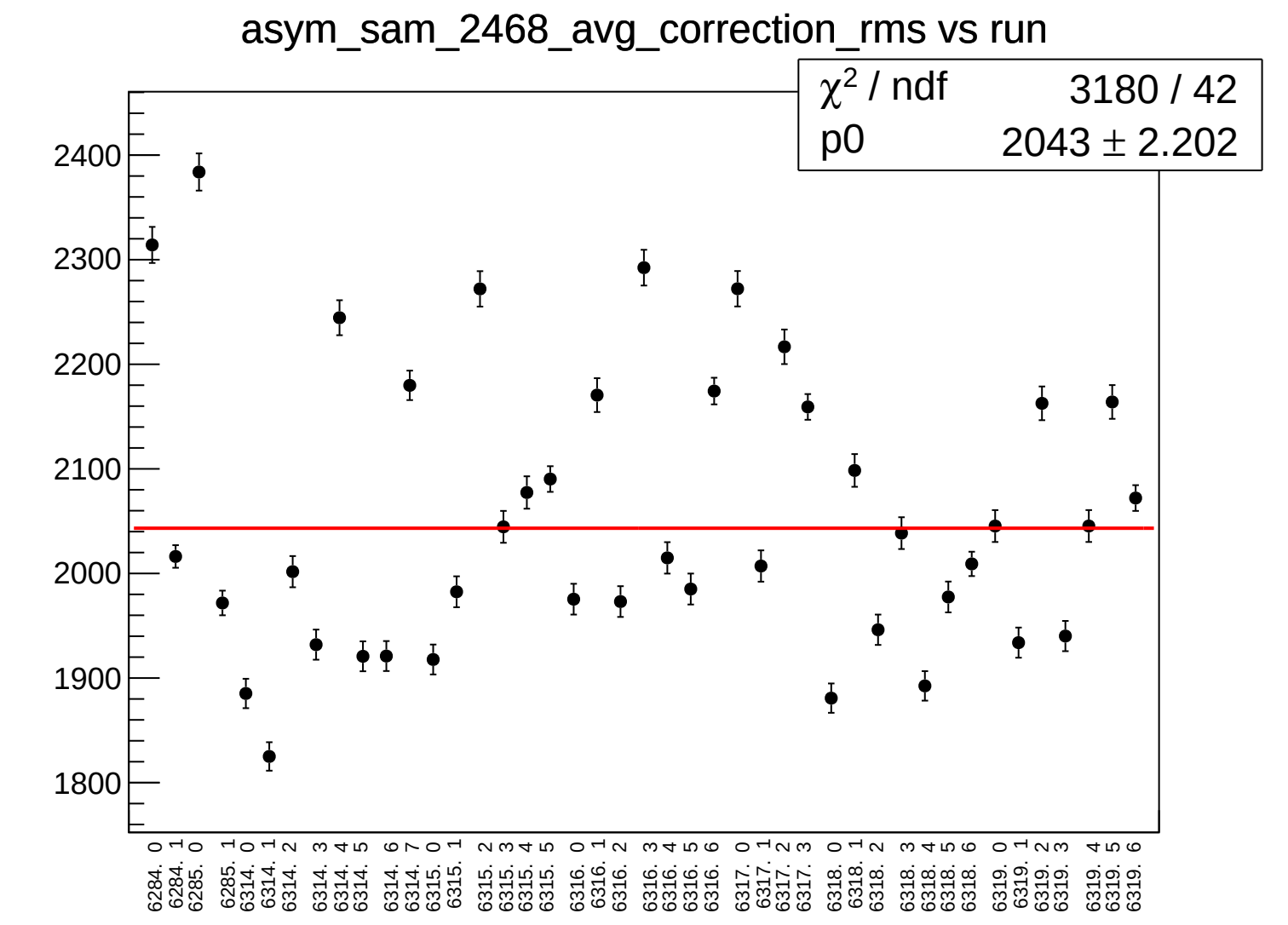

pull1D
Entries 43
Mean 0.03094
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

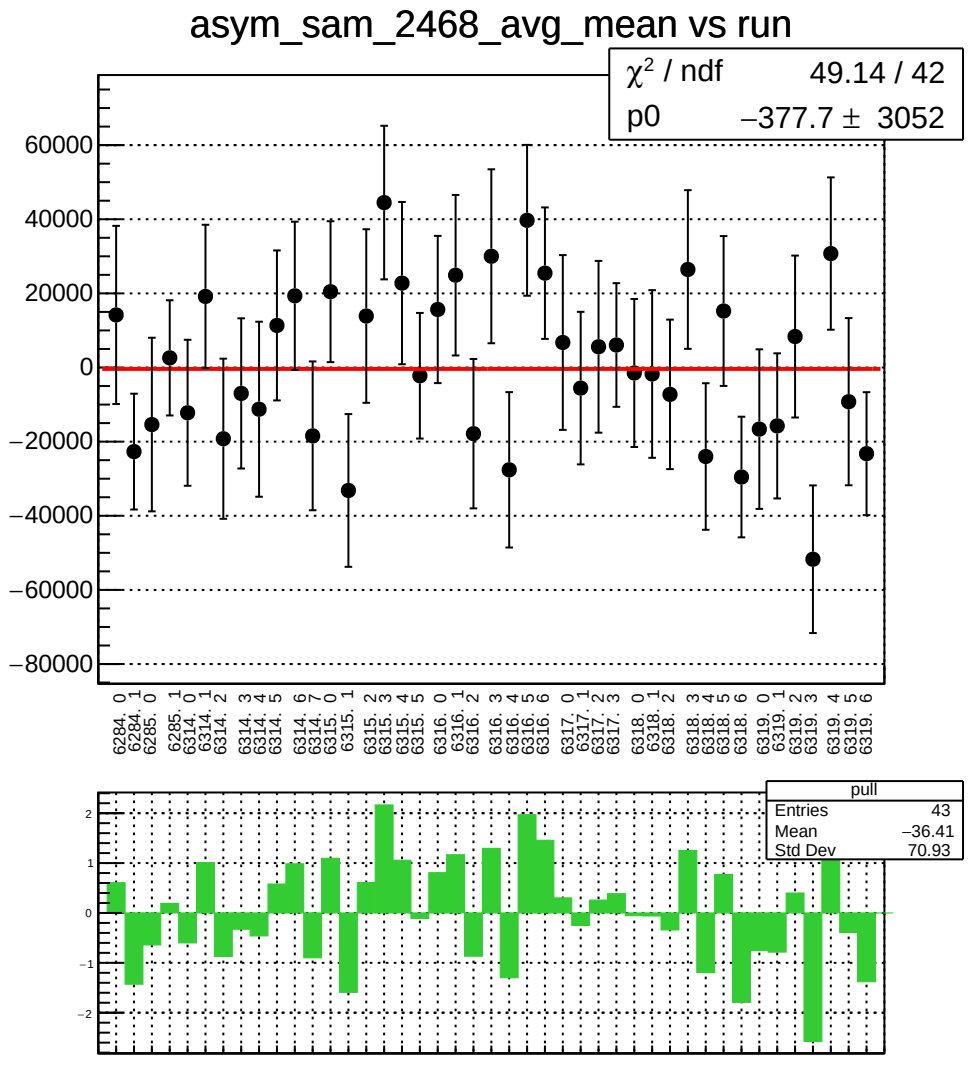

asym_sam_1357_avg_rms vs run
χ² / ndf 3273 / 42
p0 880.8 ± 0.9494
1000
950
900
850
800
750
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

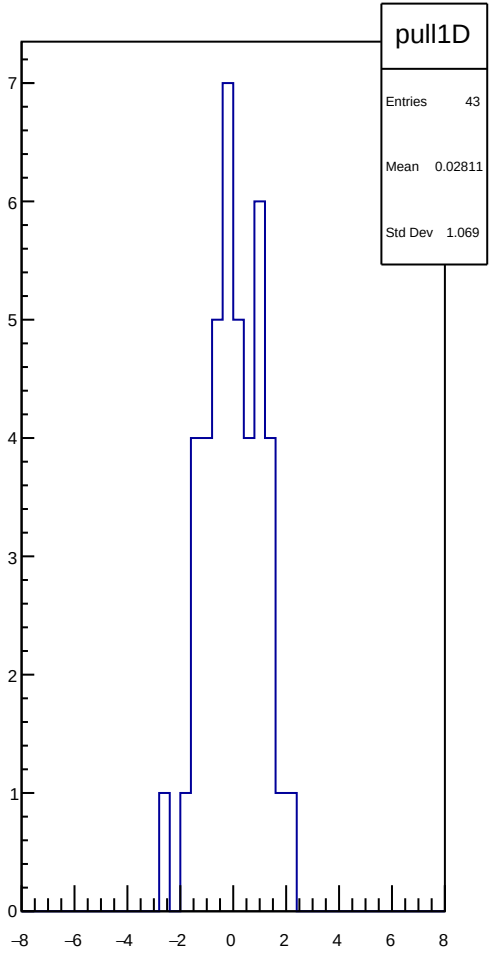

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 43.12 / 42
p0 −303.9 ± 241.8
6000
4000
2000
0
−2000
−4000
−6000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 192.3
Std Dev 169.5
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01633
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

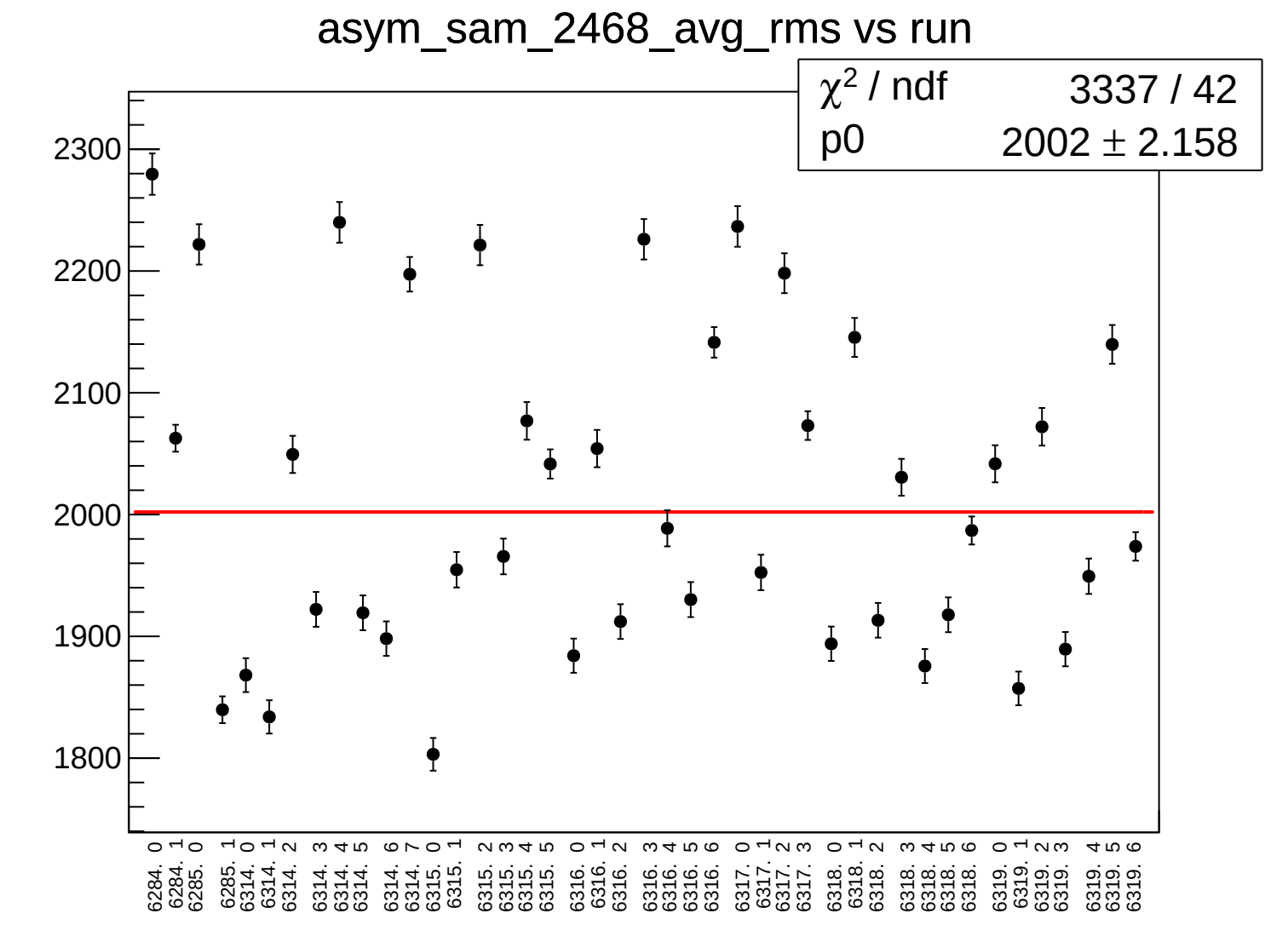

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.849e+04 / 42
p0 156.3 ± 0.171
280
260
240
220
200
180
160
140
120
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

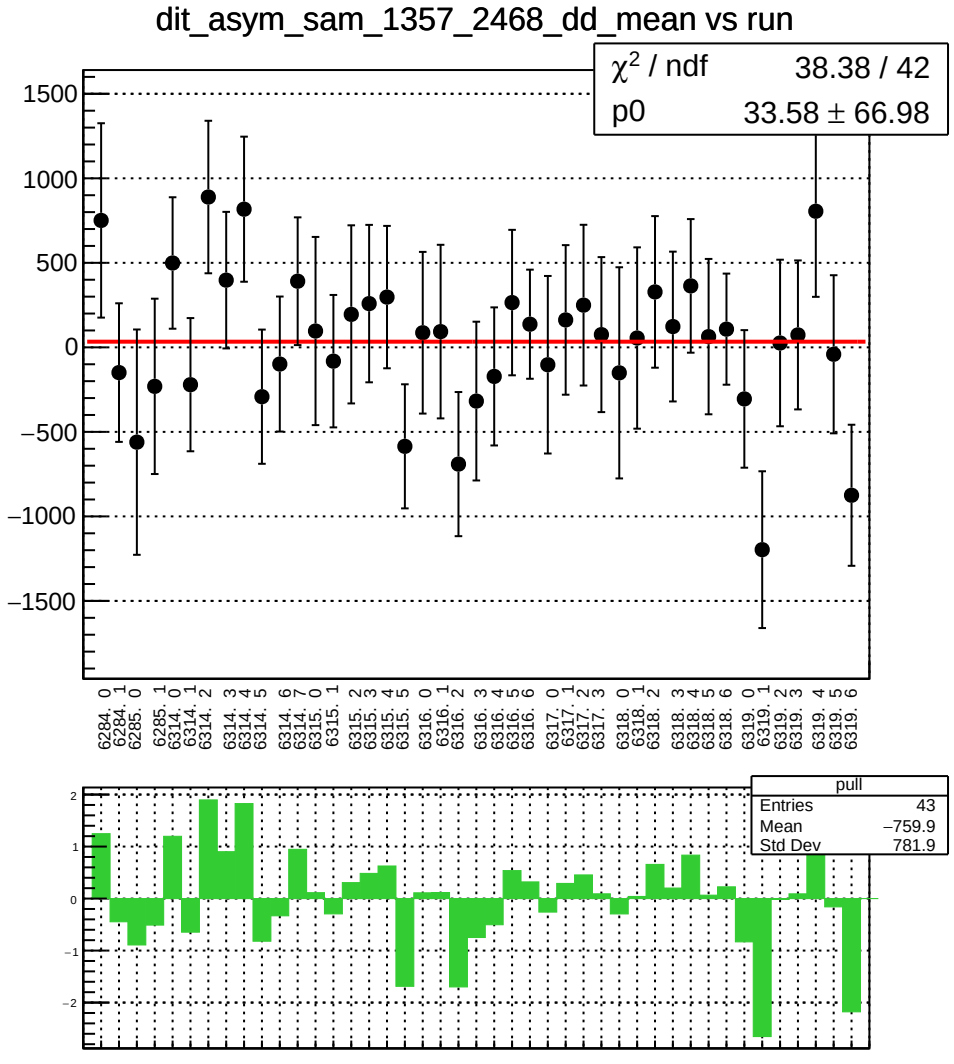

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 48.7 / 42
p0 470.4 ± 3114
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −27.19
Std Dev 60.23
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03606
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

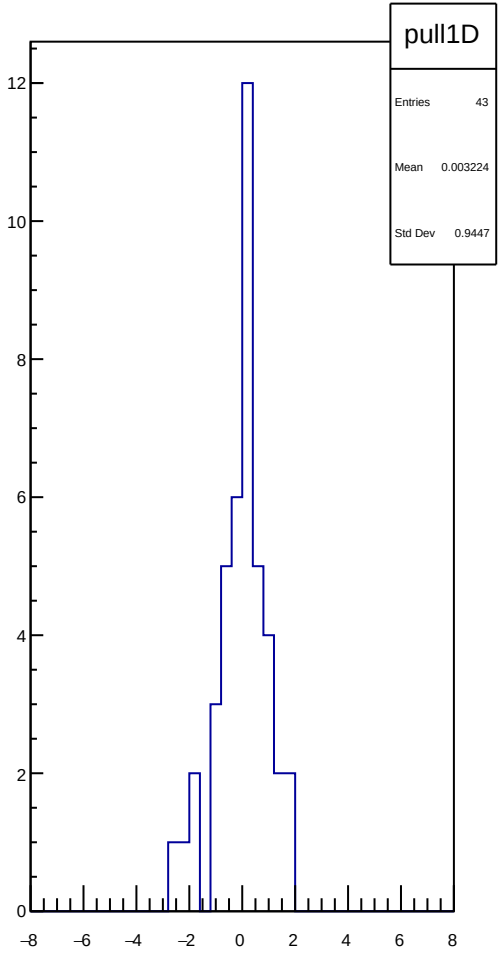

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 3180 / 42
p0 2043 ± 2.202
2400
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

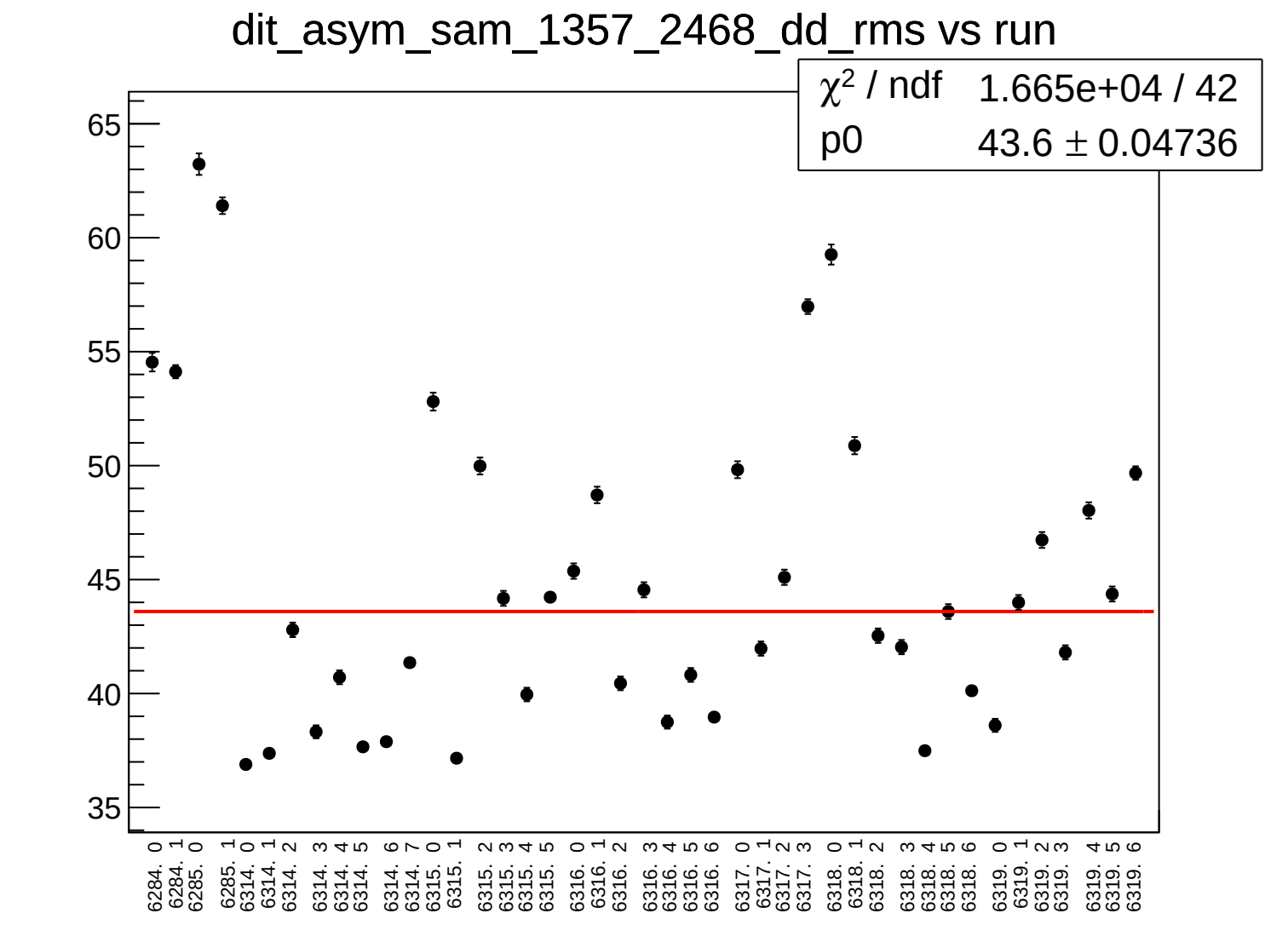

asym_sam_2468_avg_mean vs run
χ² / ndf 49.14 / 42
p0 −377.7 ± 3052
60000
40000
20000
0
−20000
−40000
−60000
−80000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −36.41
Std Dev 70.93
2
1
0
−1
−2

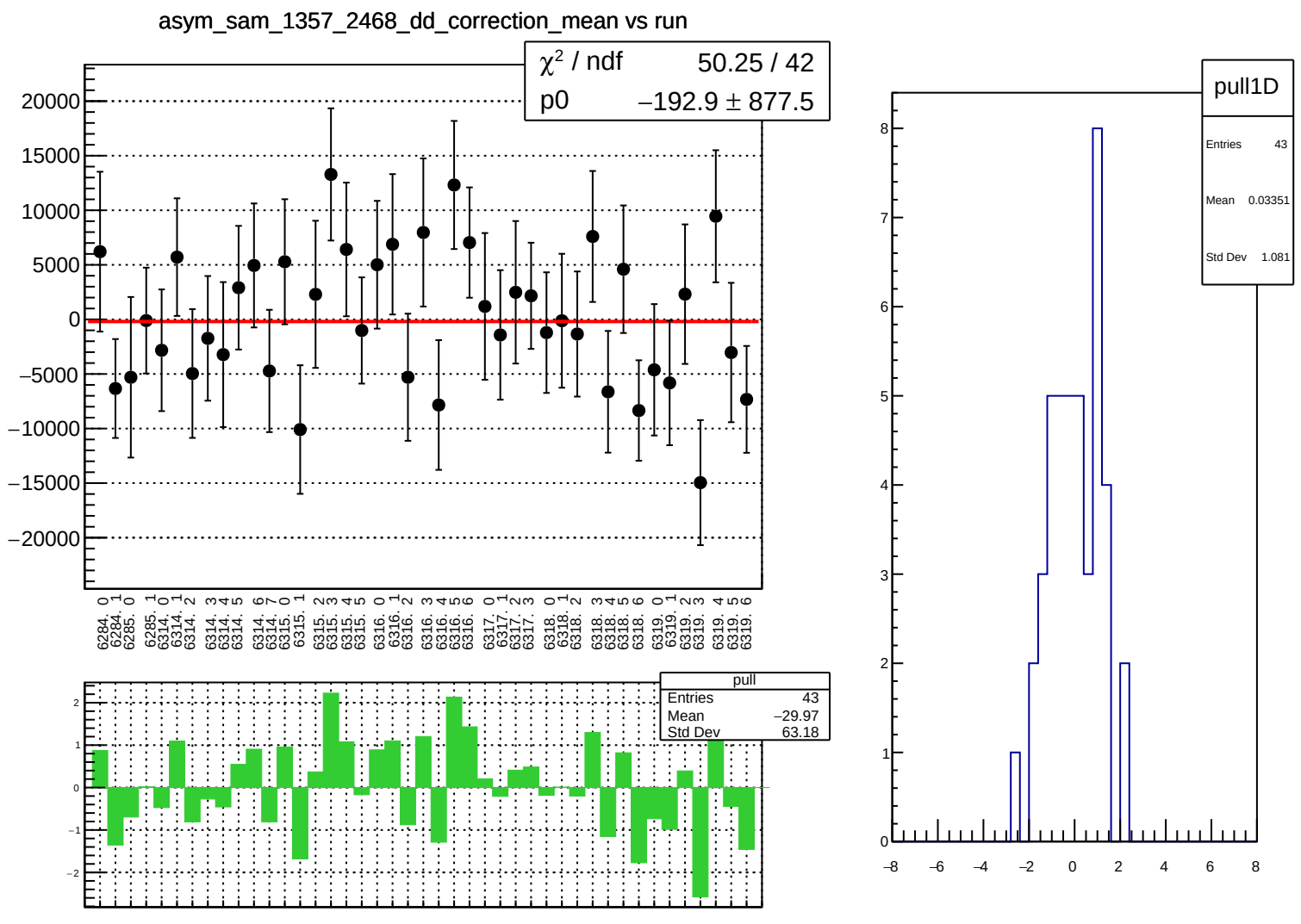

pull1D
Entries 43
Mean 0.02811
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

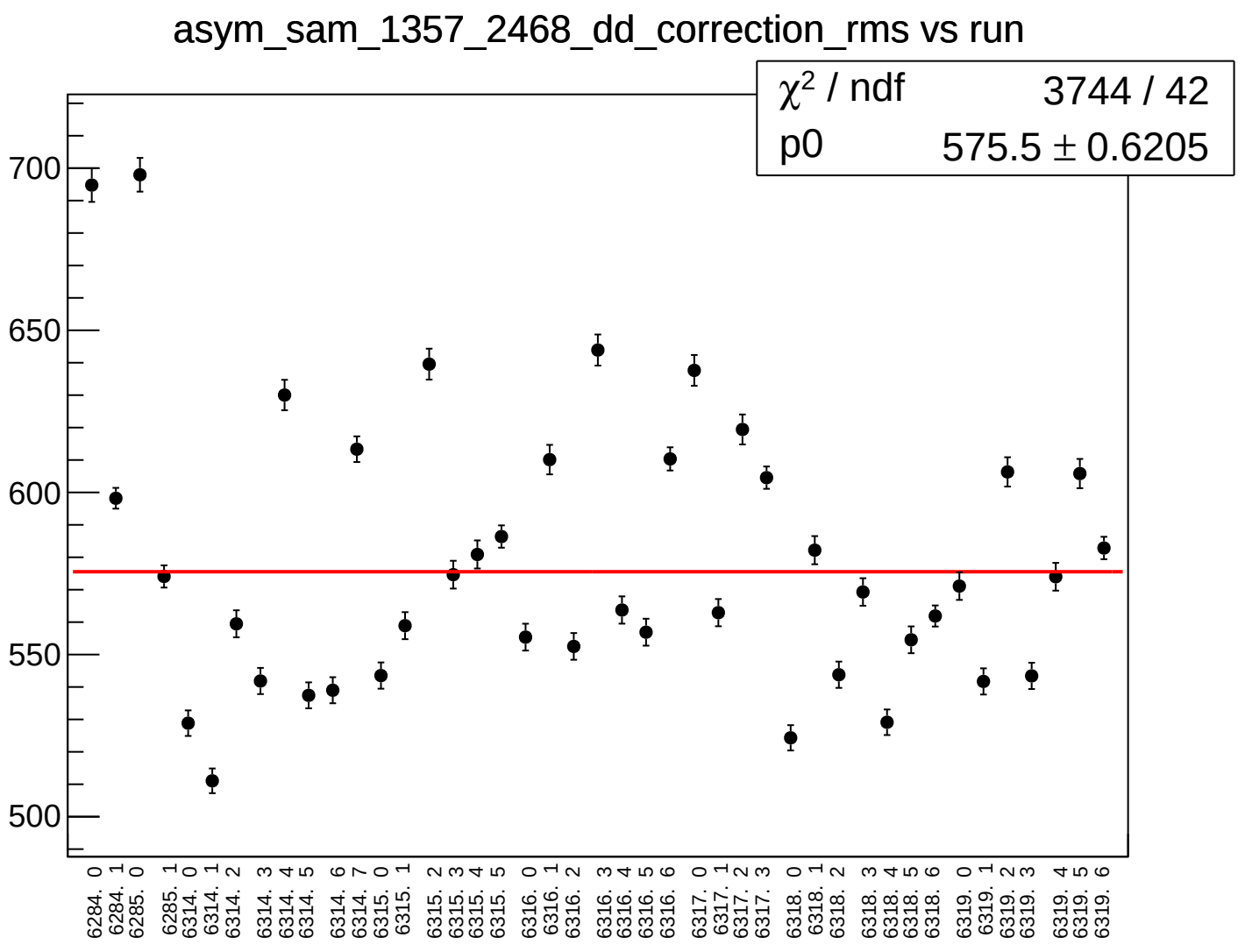

asym_sam_2468_avg_rms vs run
χ² / ndf 3337 / 42
p0 2002 ± 2.158
2300
2200
2100
2000
1900
1800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

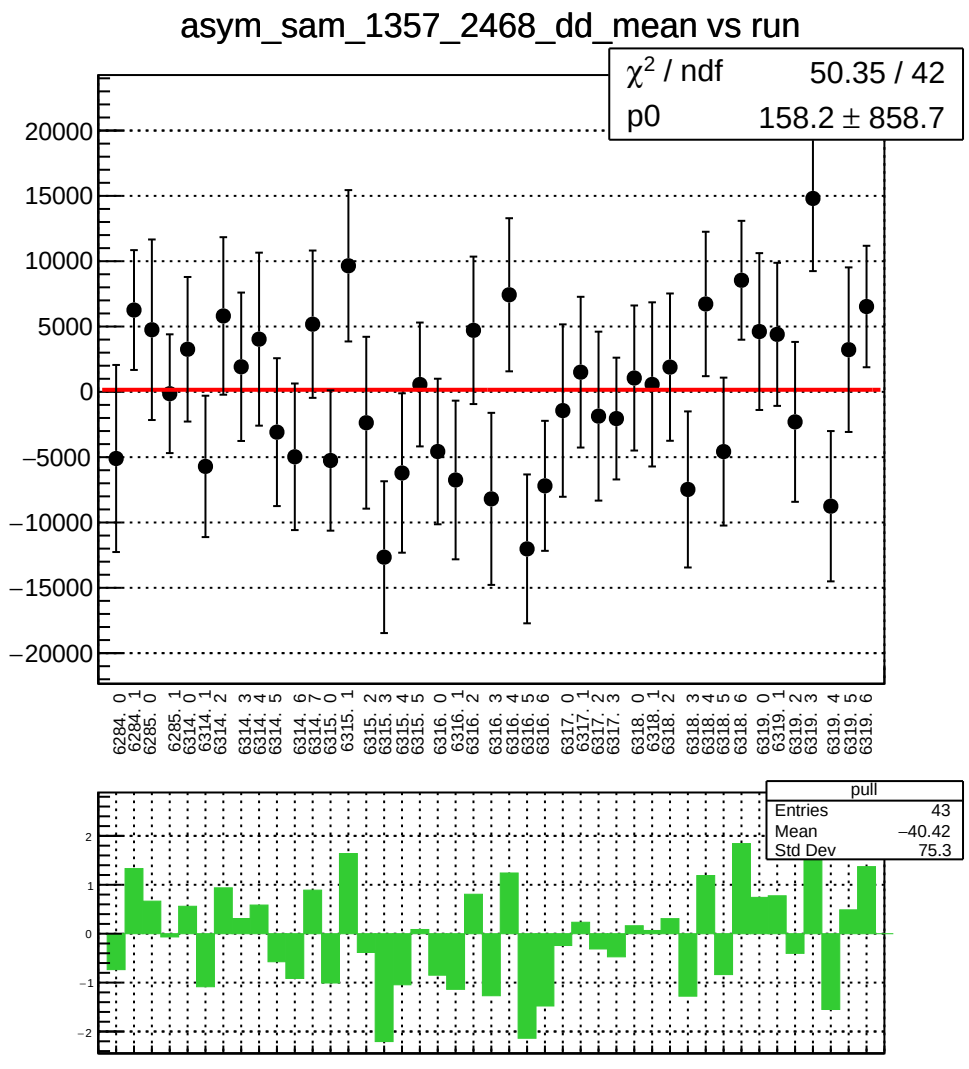

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 38.38 / 42
p0 33.58 ± 66.98
1500
1000
500
0
−500
−1000
−1500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −759.9
Std Dev 781.9
2
1
0
−1
−2

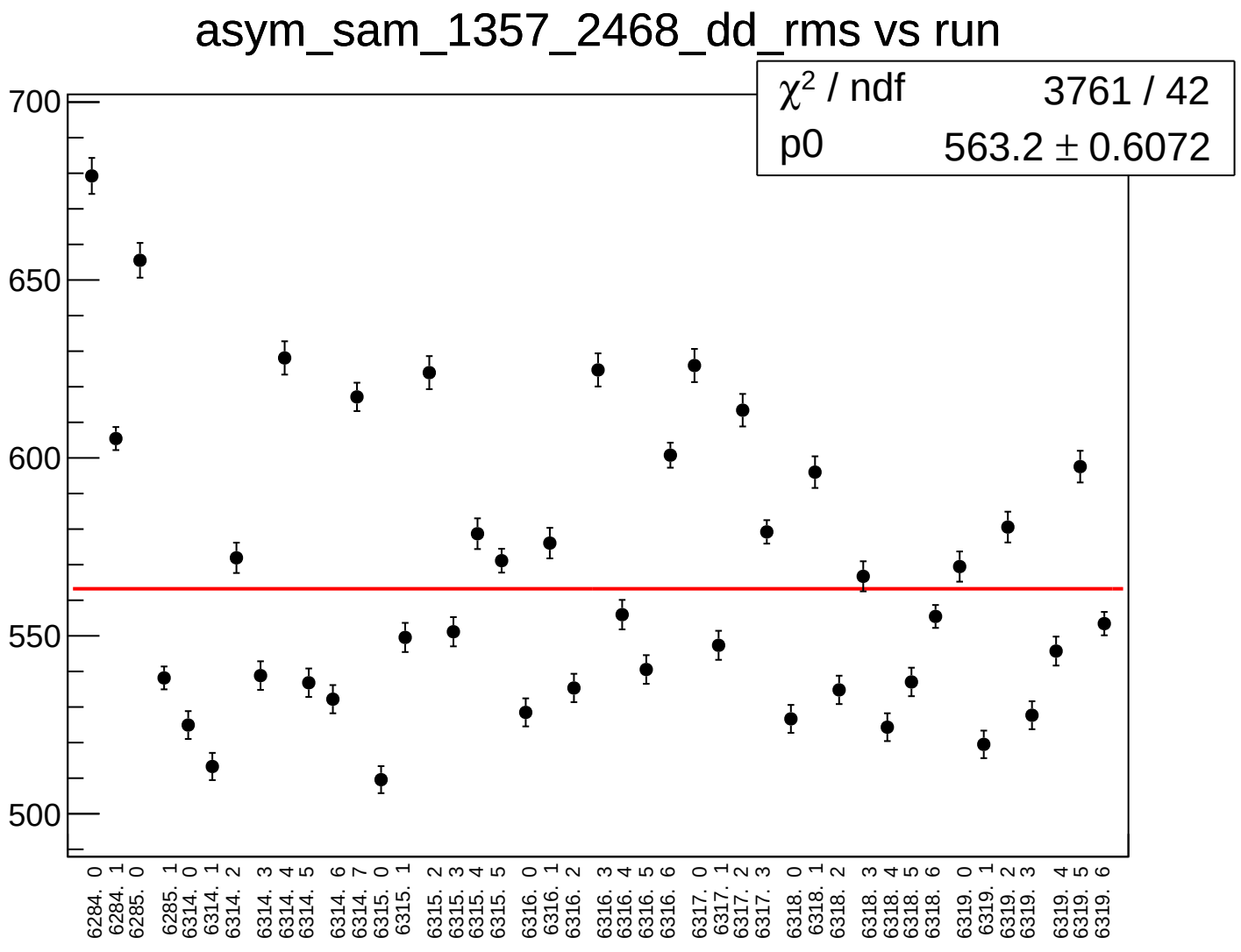

pull1D
Entries 43
Mean 0.003224
Std Dev 0.9447
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

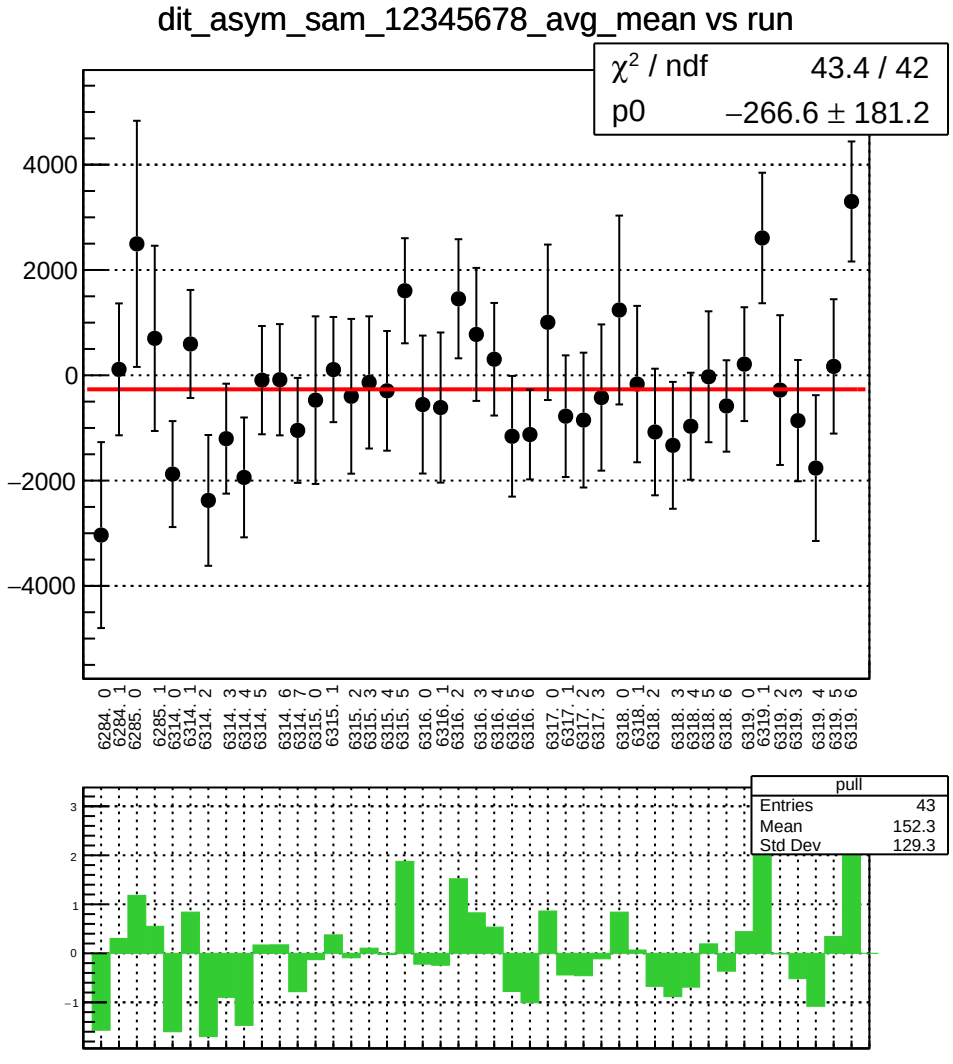

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.665e+04 / 42
p0 43.6 ± 0.04736
65
60
55
50
45
40
35
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

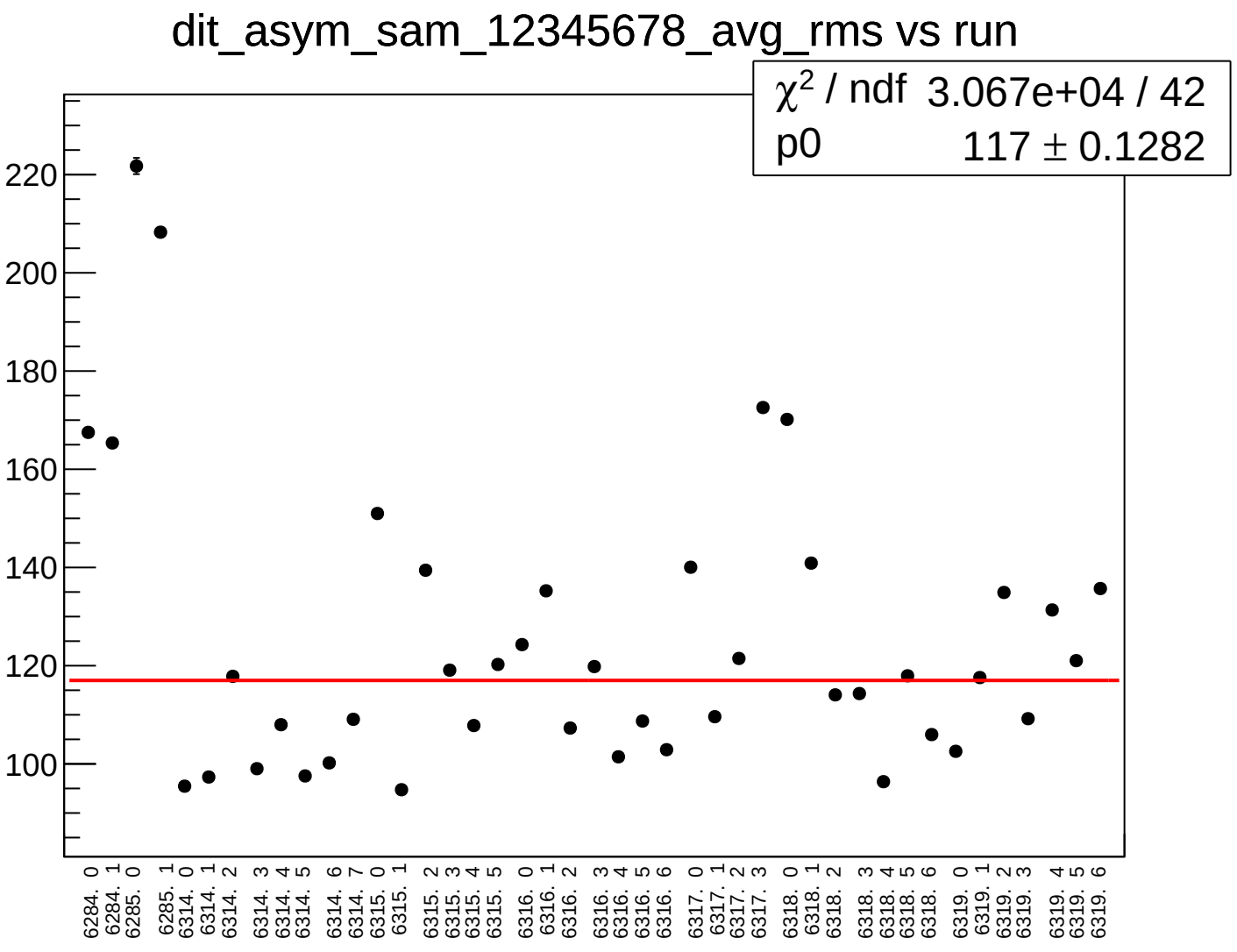

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 50.25 / 42
p0 −192.9 ± 877.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −29.97
Std Dev 63.18
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03351
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

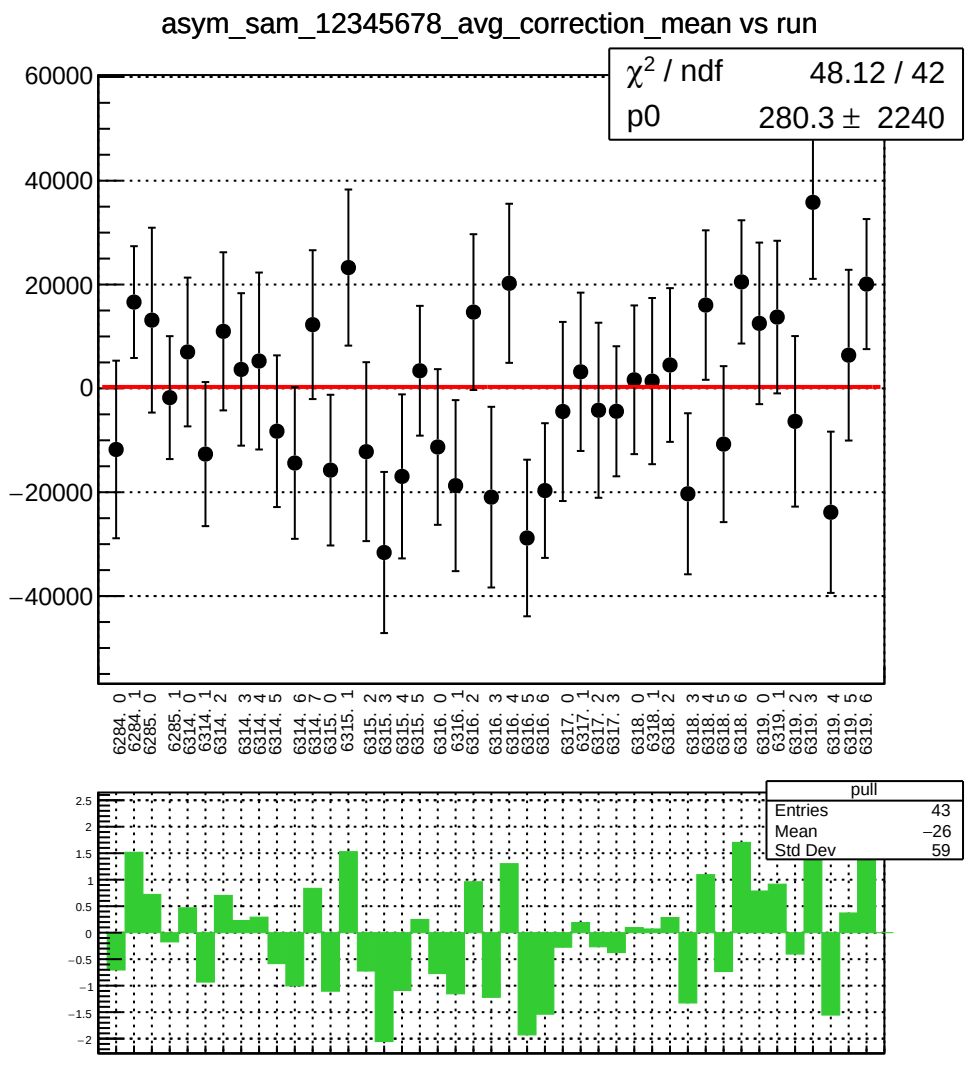

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 3744 / 42
p0 575.5 ± 0.6205
700
650
600
550
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

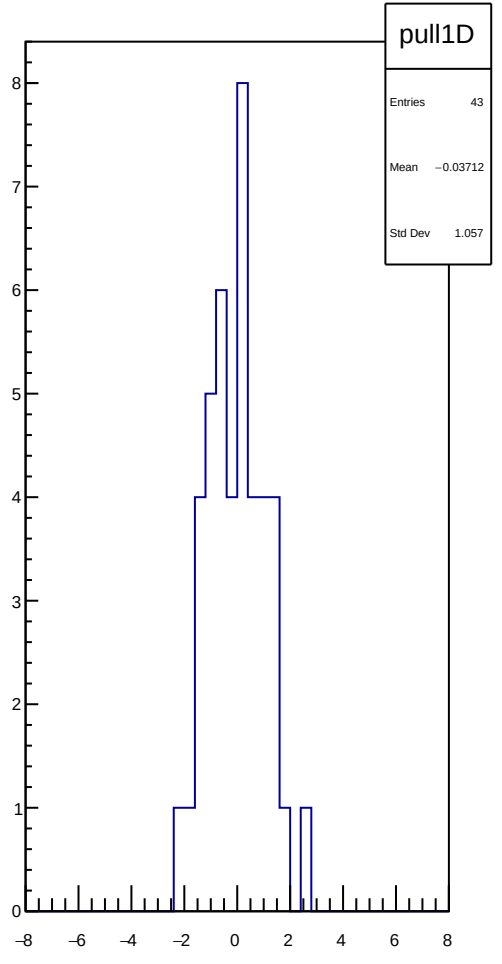

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.35 / 42
p0 158.2 ± 858.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −40.42
Std Dev 75.3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02585
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

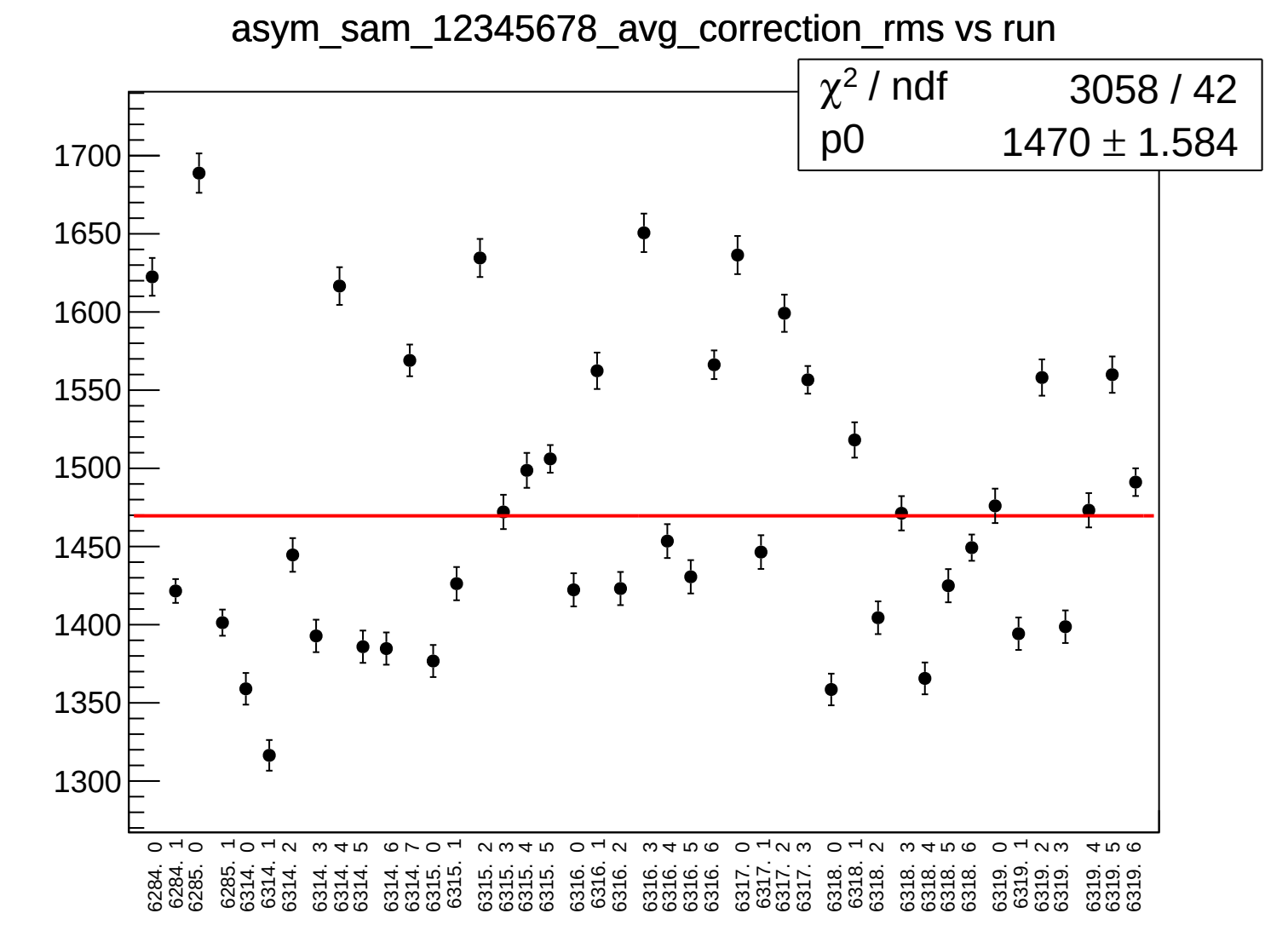

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3761 / 42
p0 563.2 ± 0.6072
700
650
600
550
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

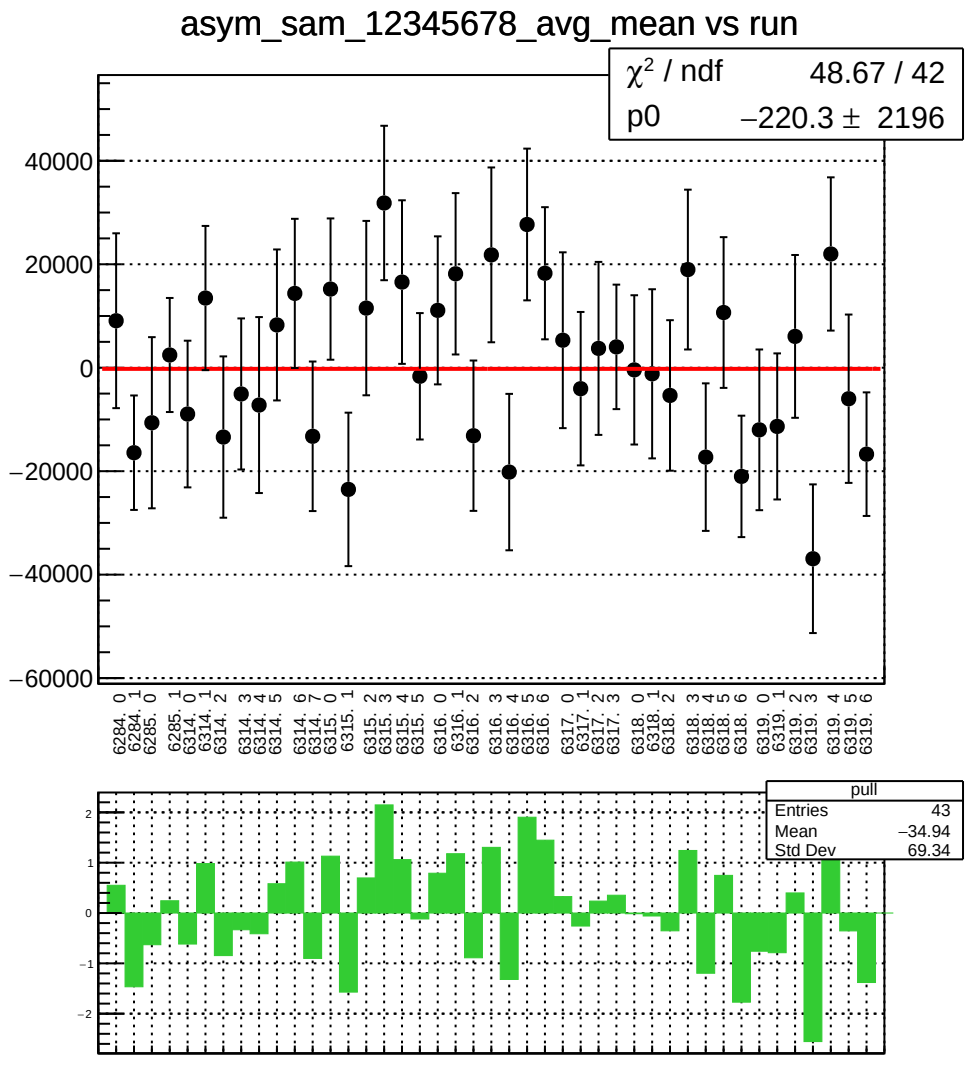

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 43.4 / 42
p0 −266.6 ± 181.2
4000
2000
0
−2000
−4000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 152.3
Std Dev 129.3
3
2
1
0
−1
pull1D
Entries 43
Mean 0.02127
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

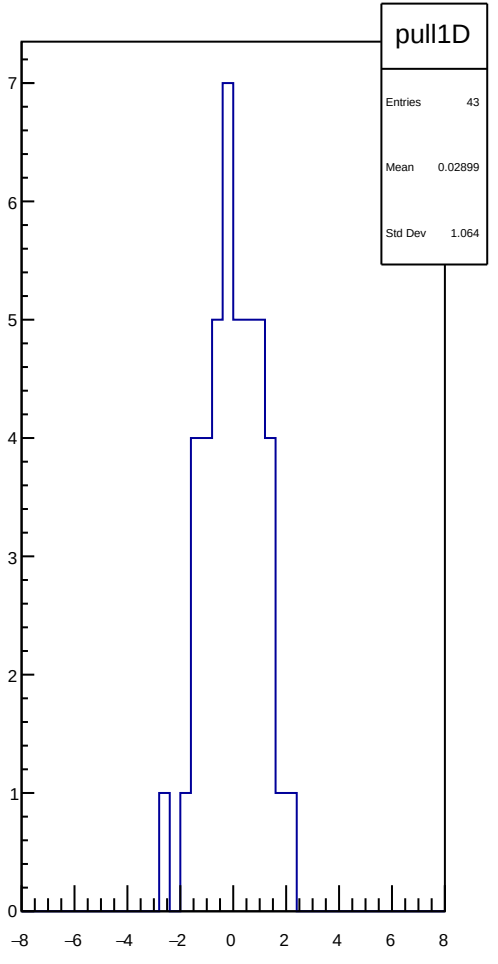

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.067e+04 / 42
p0 117 ± 0.1282
220
200
180
160
140
120
100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

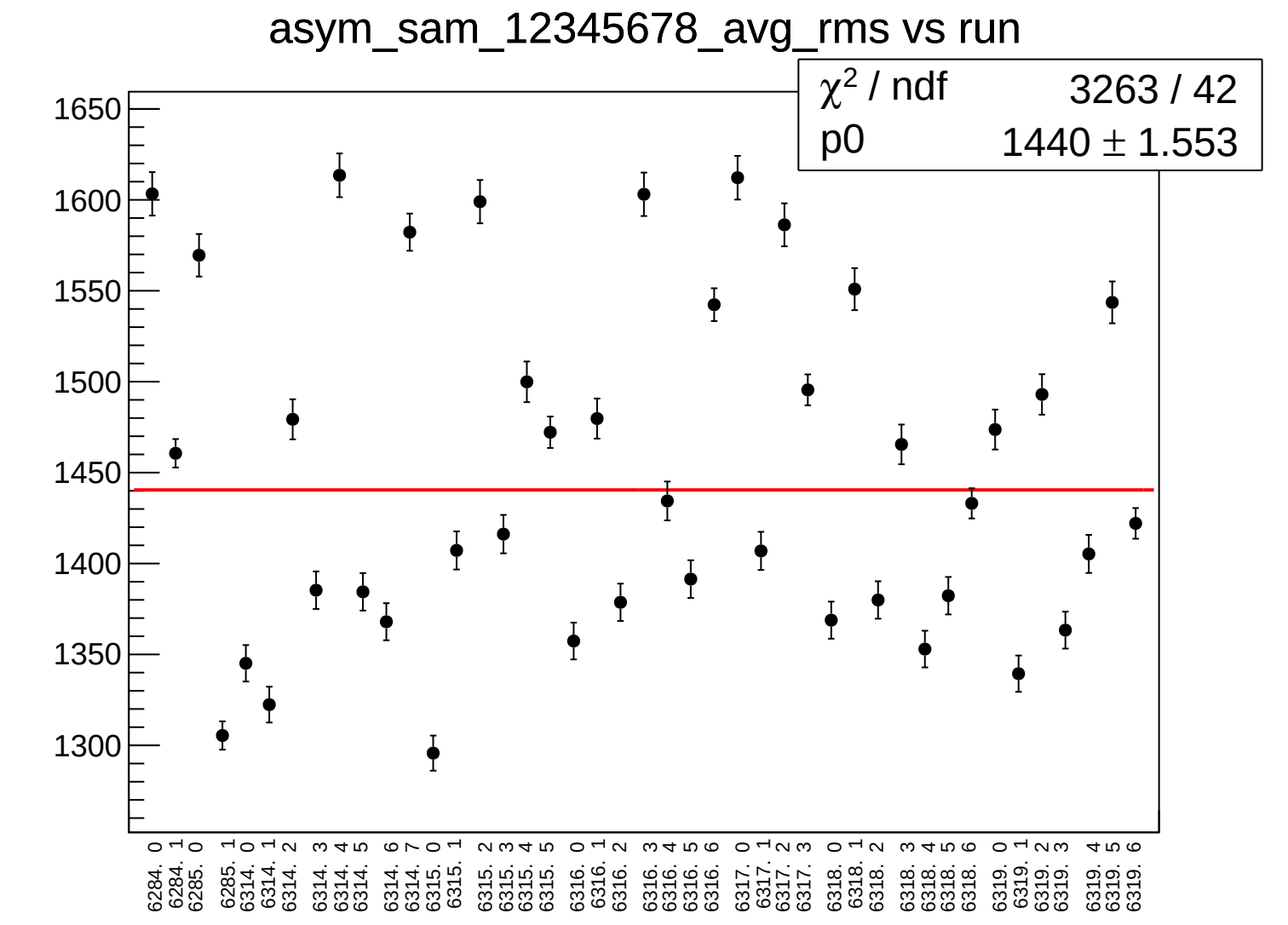

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 48.12 / 42
p0 280.3 ± 2240
60000
40000
20000
0
−20000
−40000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −26
Std Dev 59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

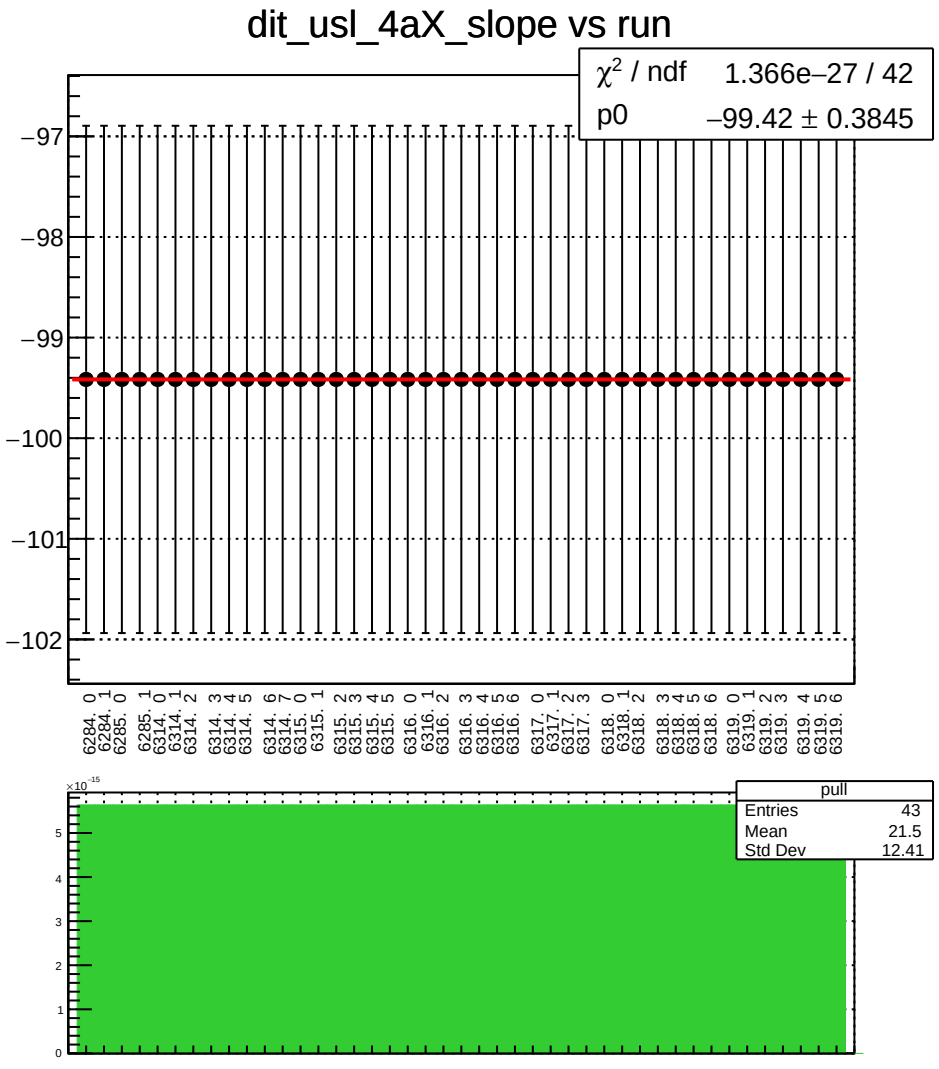

pull1D
Entries 43
Mean −0.03712
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

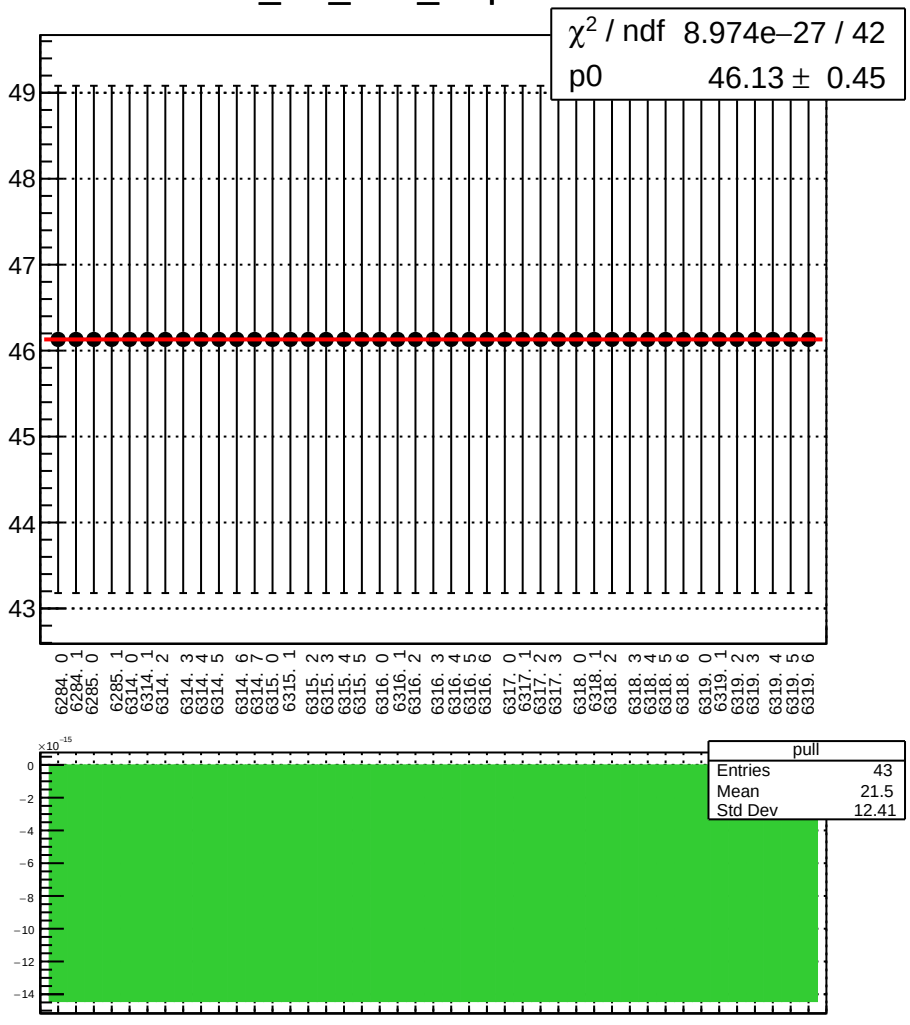

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 3058 / 42
p0 1470 ± 1.584
1700
1650
1600
1550
1500
1450
1400
1350
1300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

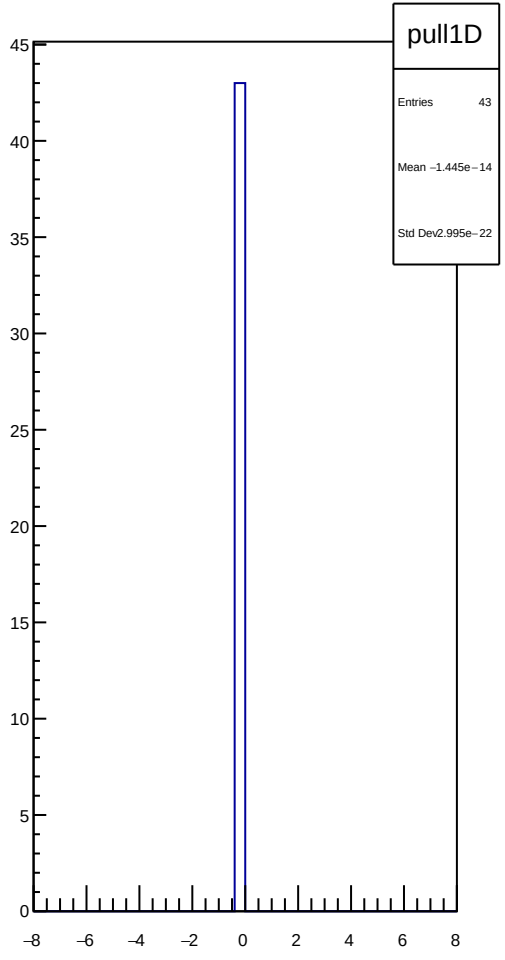

asym_sam_12345678_avg_mean vs run
χ² / ndf 48.67 / 42
p0 −220.3 ± 2196
40000
20000
0
−20000
−40000
−60000
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −34.94
Std Dev 69.34
2
1
0
−1
−2

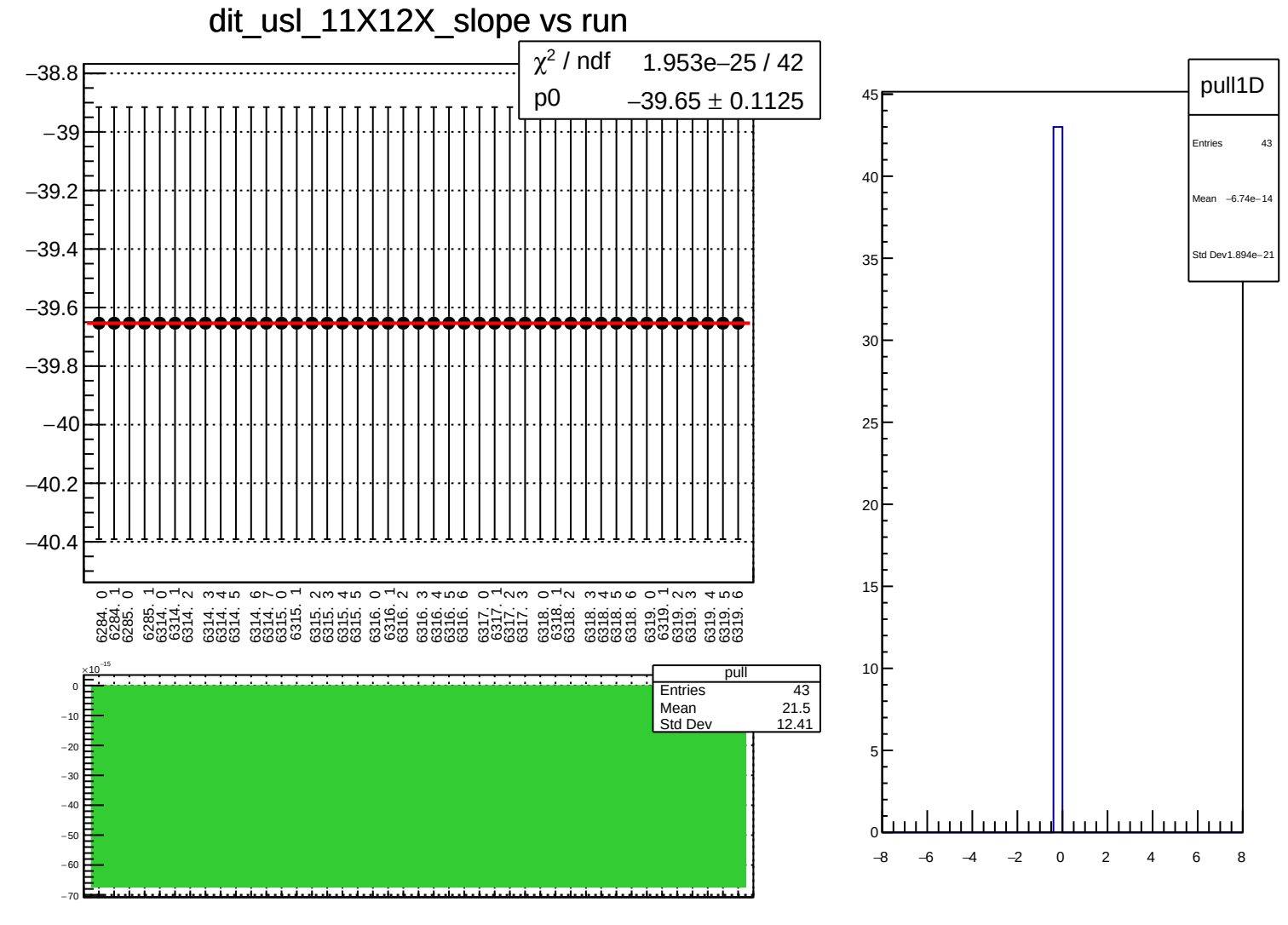

pull1D
Entries 43
Mean 0.02899
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

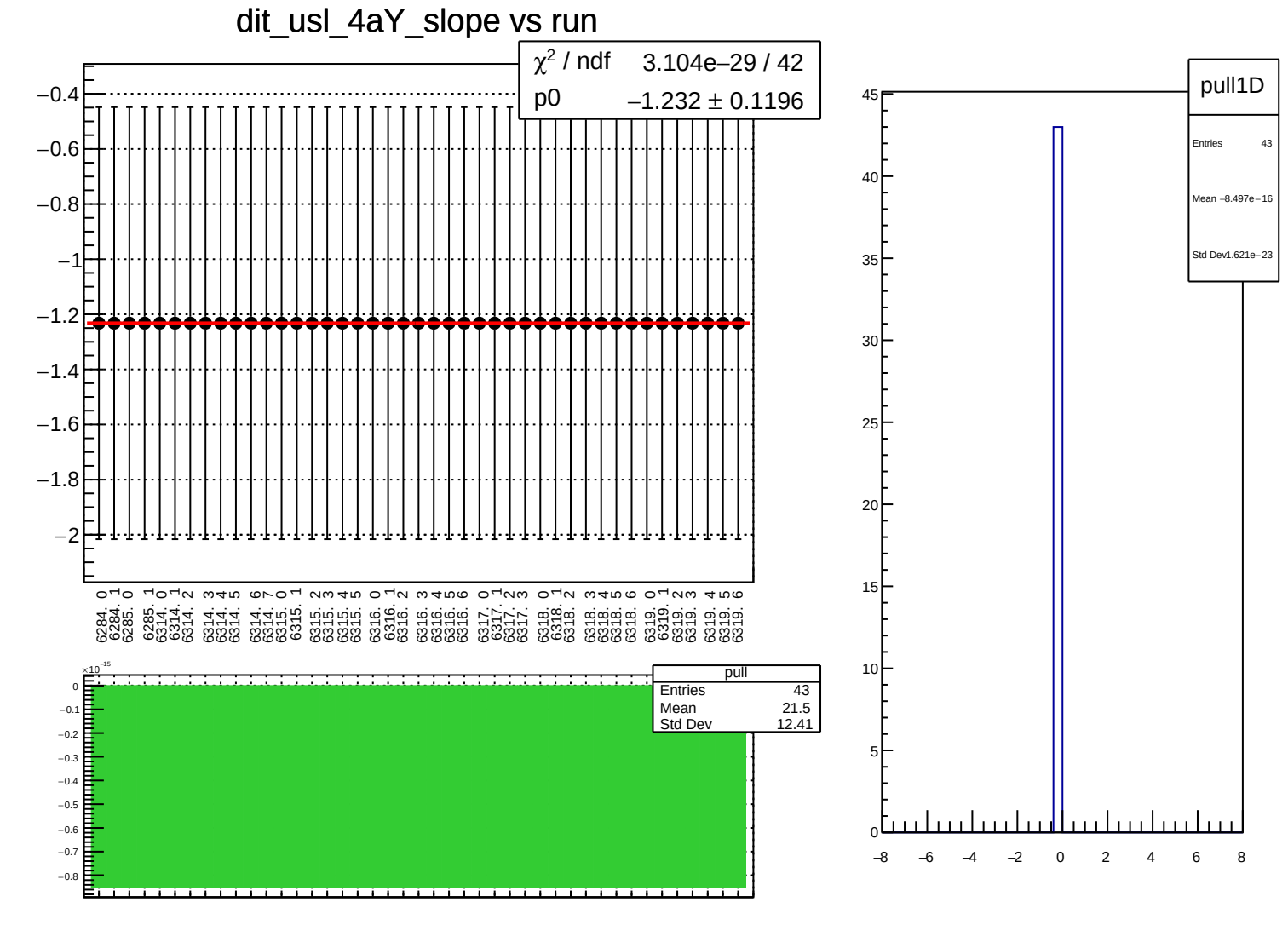

asym_sam_12345678_avg_rms vs run
χ² / ndf 3263 / 42
p0 1440 ± 1.553
1650
1600
1550
1500
1450
1400
1350
1300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

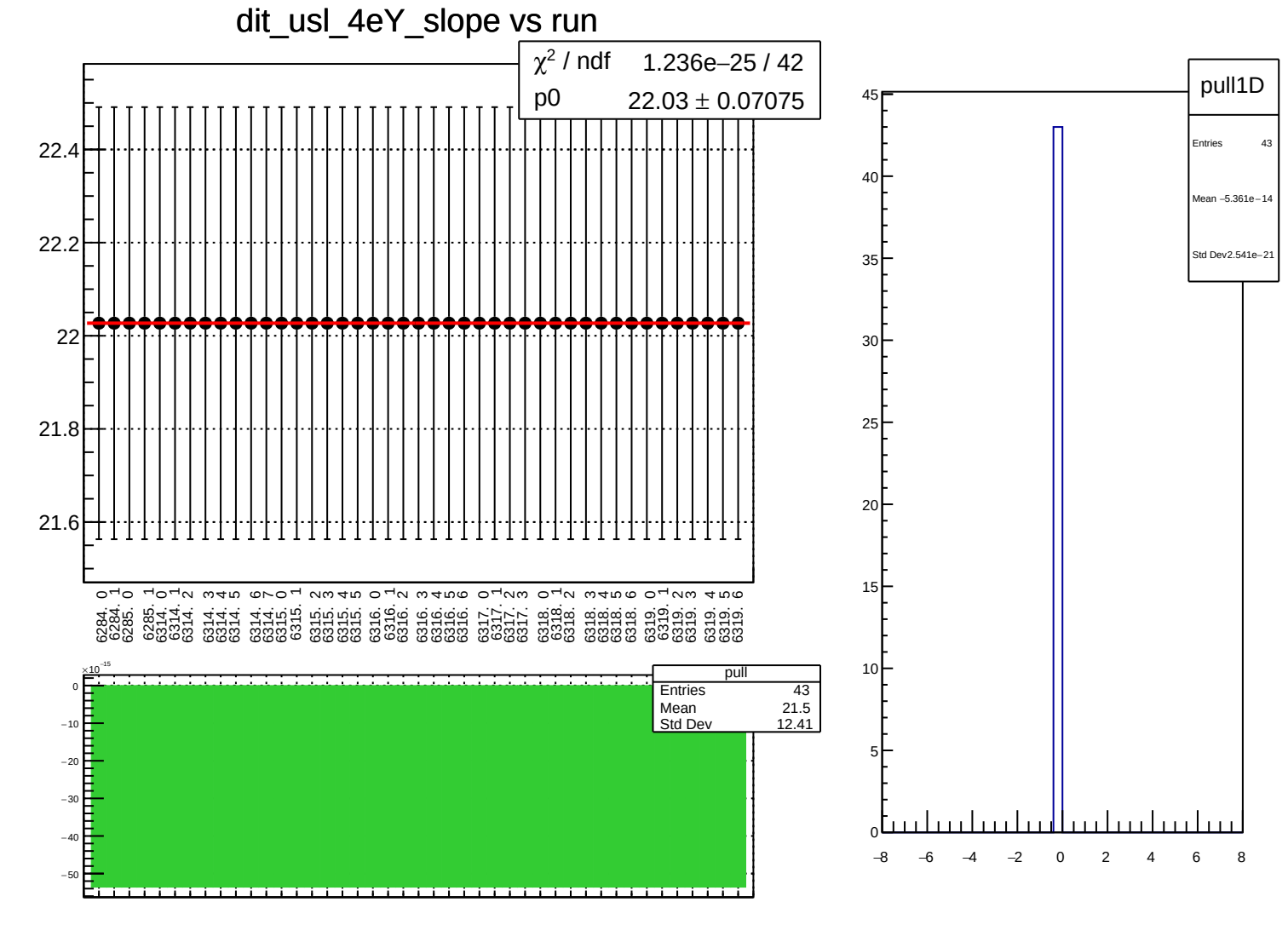

dit_usl_4aX_slope vs run
χ² / ndf 1.366e−27 / 42
p0 −99.42 ± 0.3845
−97
−98
−99
−100
−101
−102
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 5.637e−15
Std Dev 2.118e−22

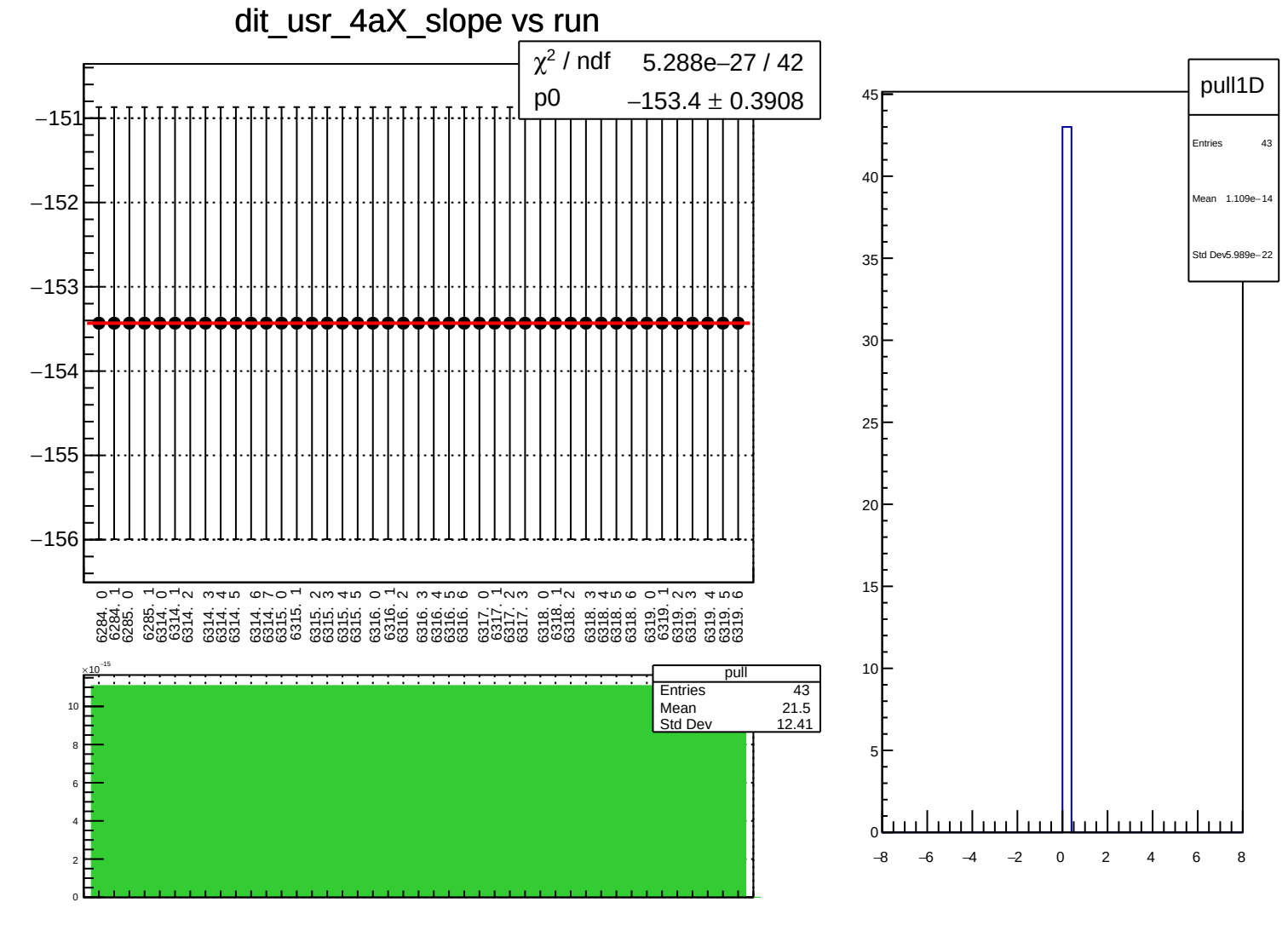

dit_usl_4eX_slope vs run
χ² / ndf 8.974e−27 / 42
p0 46.13 ± 0.45
49
48
47
46
45
44
43
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 43
Mean 21.5
Std Dev 12.41

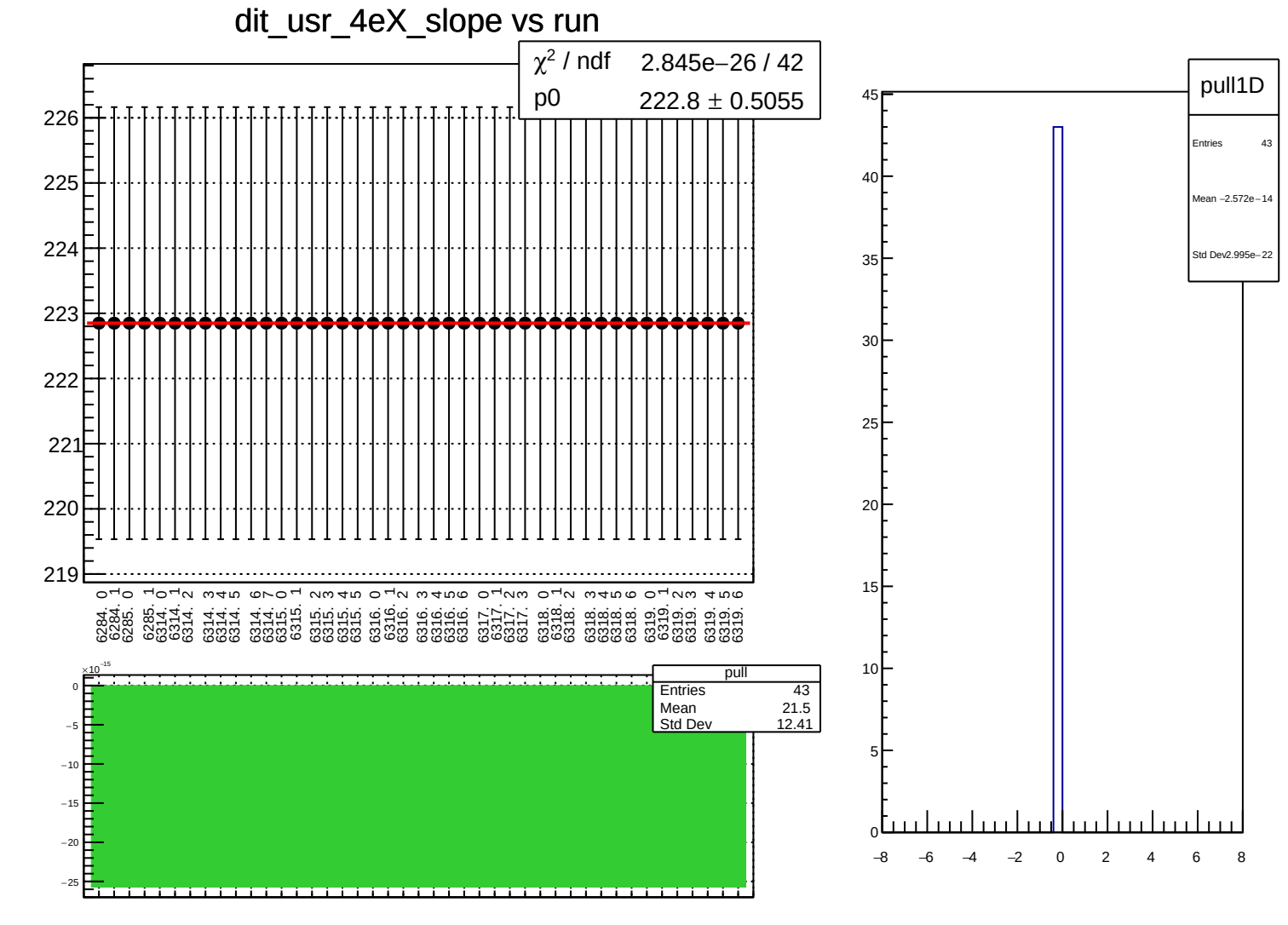

pull1D
Entries 43
Mean −1.445e−14
Std Dev 2.995e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

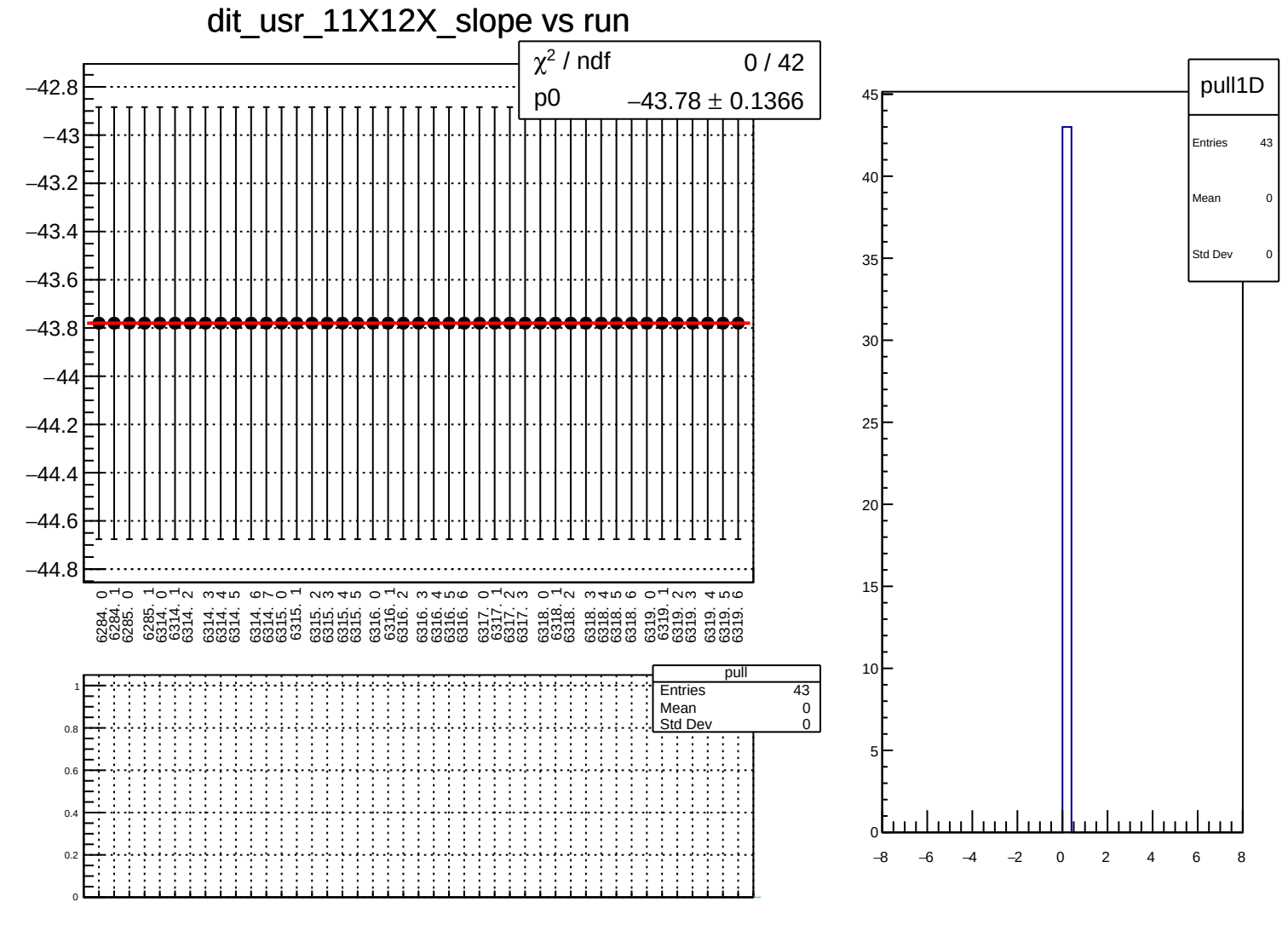

dit_usl_11X12X_slope vs run
χ² / ndf 1.953e−25 / 42
p0 −39.65 ± 0.1125
−38.8
−39
−39.2
−39.4
−39.6
−39.8
−40
−40.2
−40.4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −6.74e−14
Std Dev 1.894e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

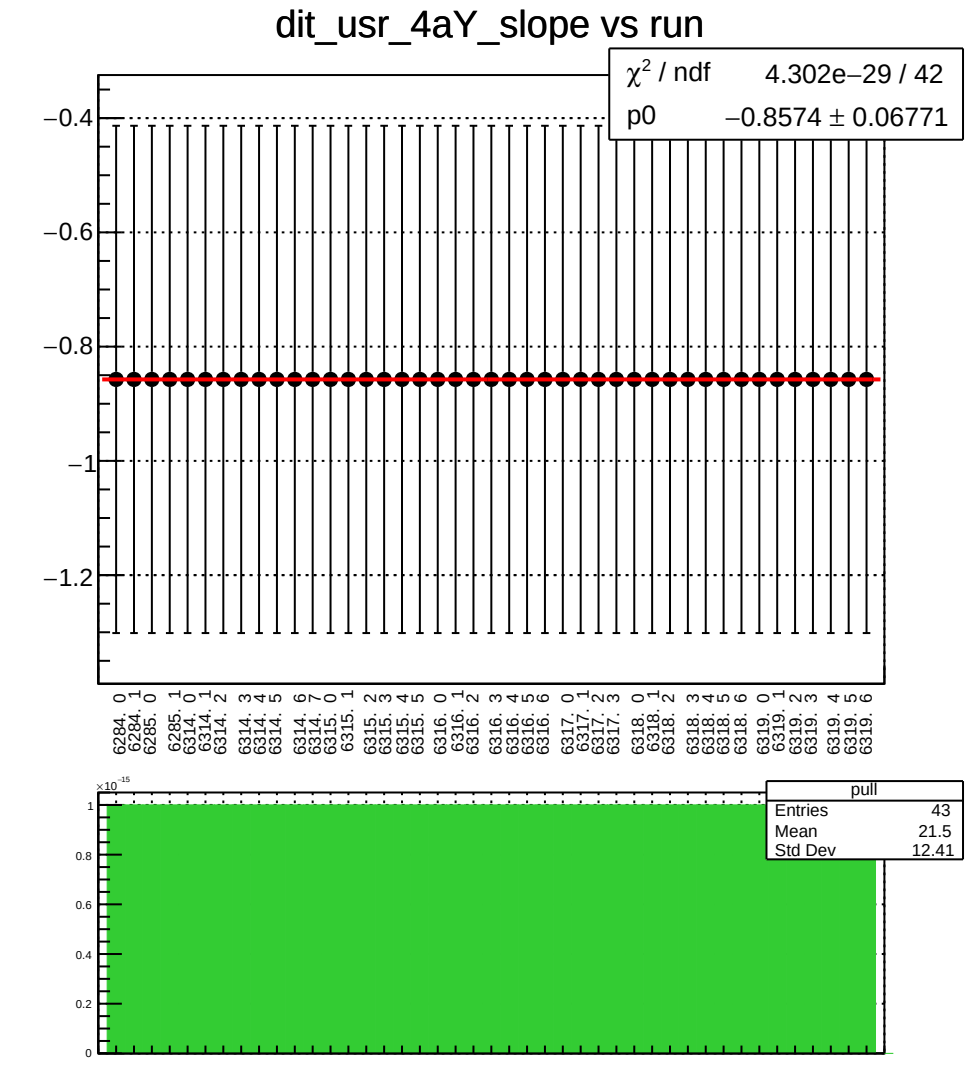

dit_usl_4aY_slope vs run
χ² / ndf 3.104e−29 / 42
p0 −1.232 ± 0.1196
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −8.497e−16
Std Dev1.621e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

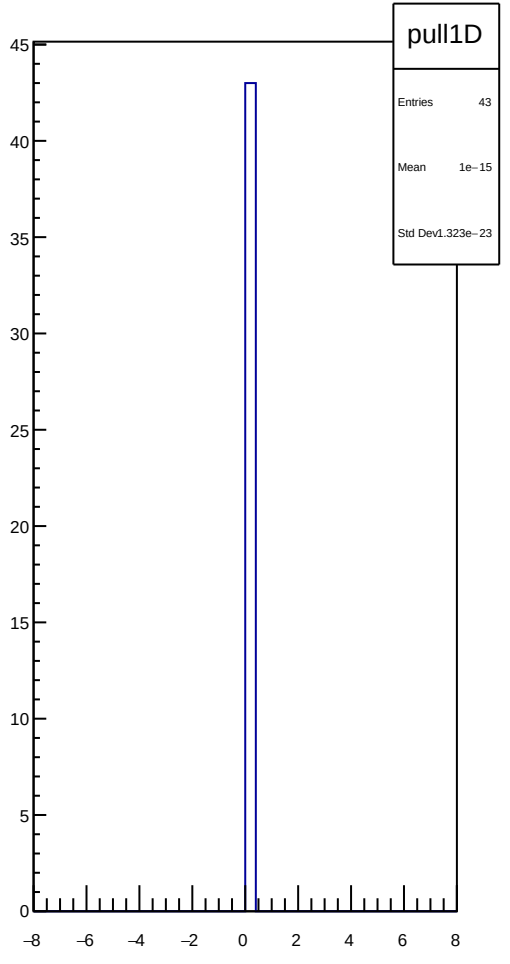

dit_usl_4eY_slope vs run
χ² / ndf 1.236e−25 / 42
p0 22.03 ± 0.07075
22.4
22.2
22
21.8
21.6
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −5.361e−14
Std Dev2.541e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

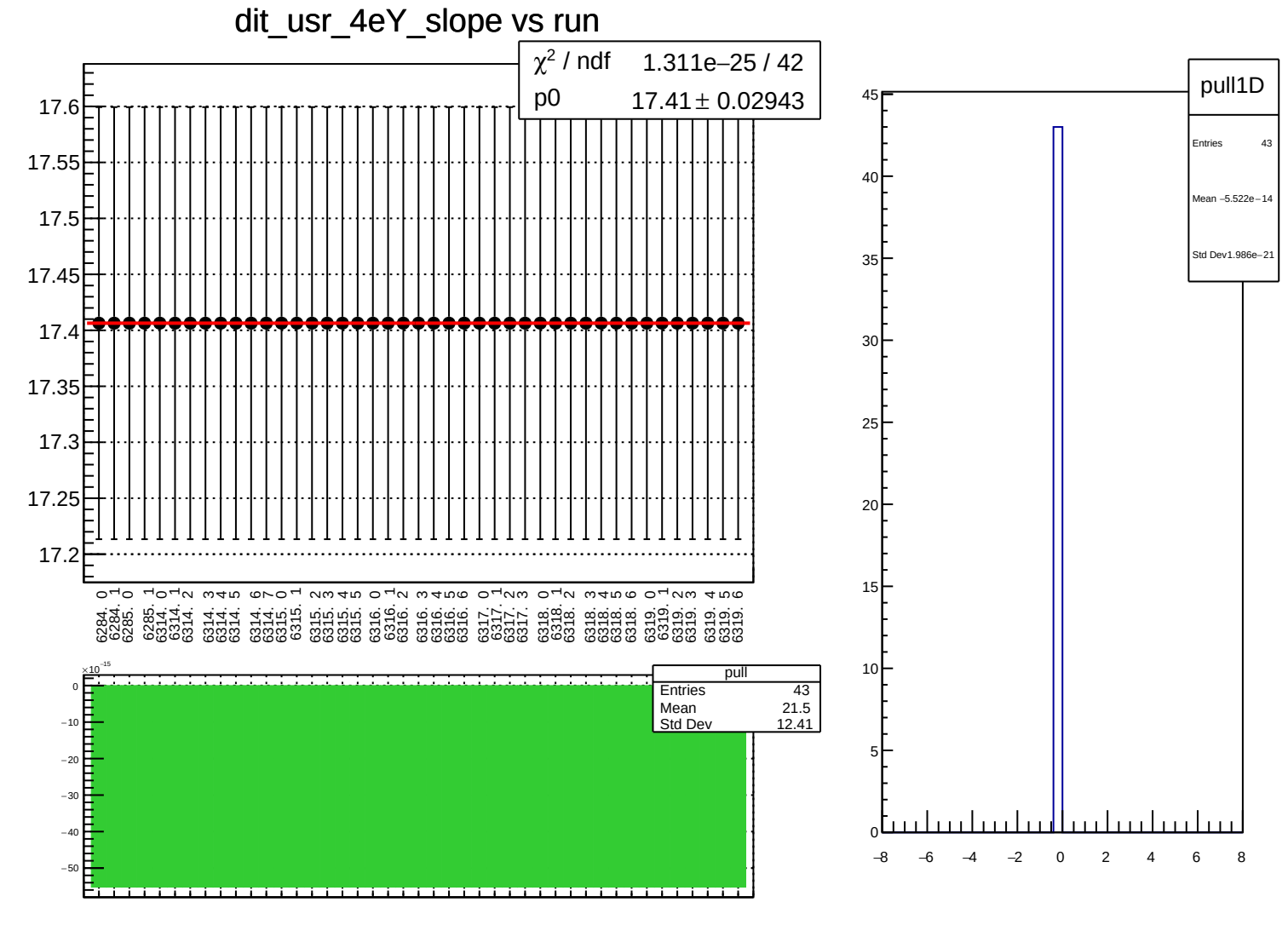

dit_usr_4aX_slope vs run
χ² / ndf 5.288e−27 / 42
p0 −153.4 ± 0.3908
−151
−152
−153
−154
−155
−156
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 1.109e−14
Std Dev 5.989e−22

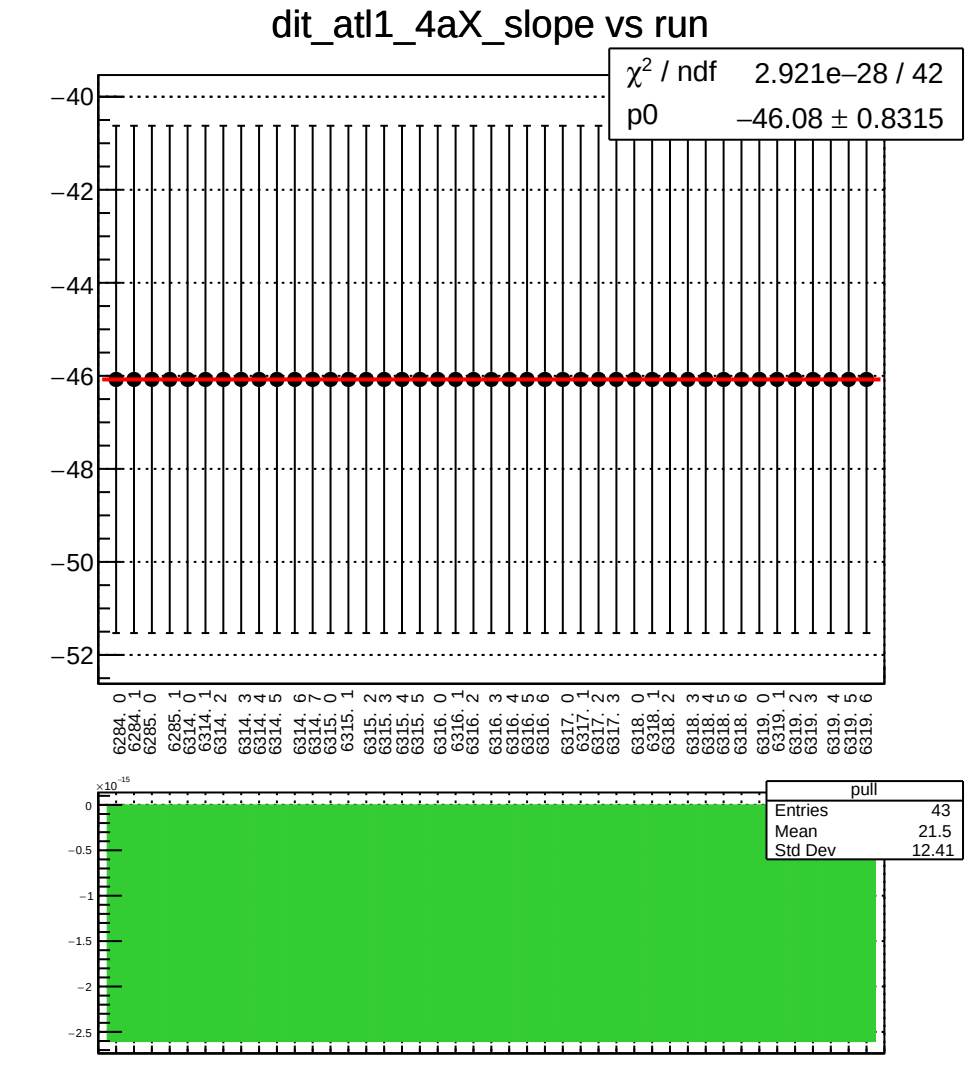

dit_usr_4eX_slope vs run
χ² / ndf 2.845e−26 / 42
p0 222.8 ± 0.5055
226
225
224
223
222
221
220
219
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −2.572e−14
Std Dev 2.995e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

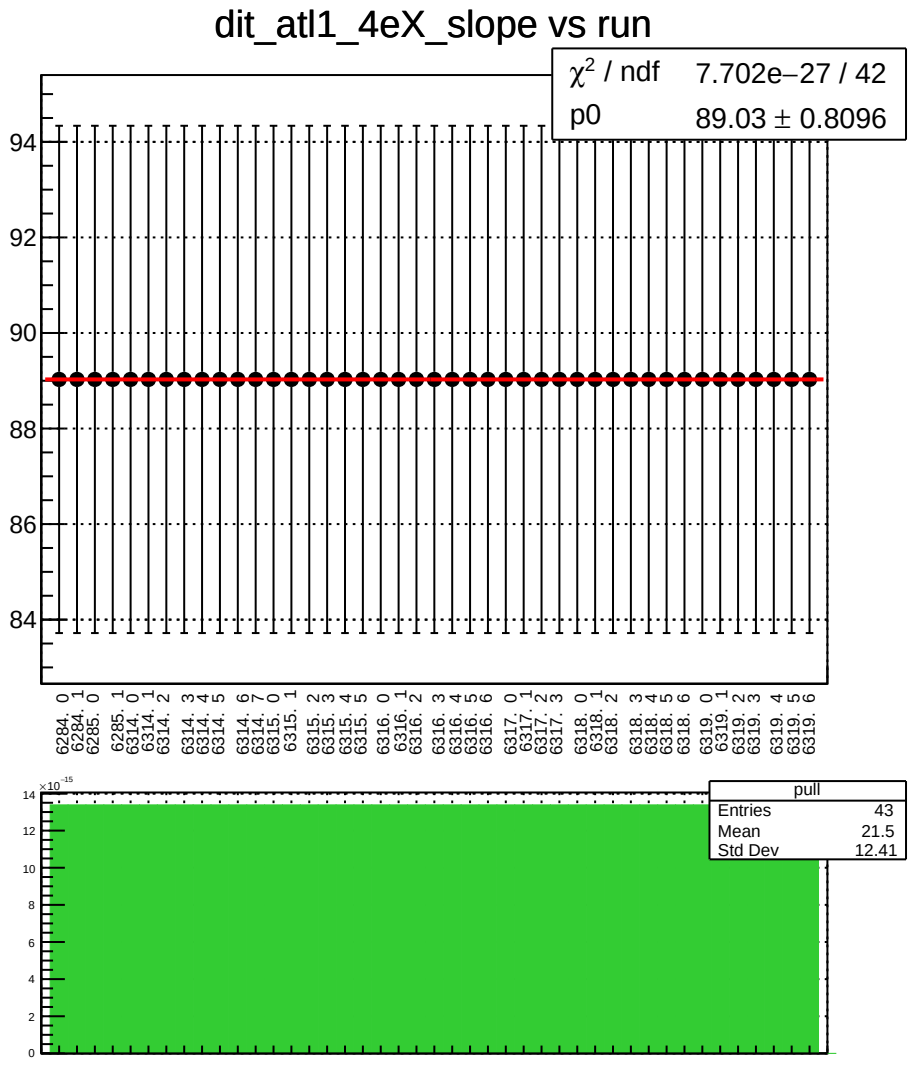

dit_usr_11X12X_slope vs run
χ² / ndf 0 / 42
p0 −43.78 ± 0.1366
−42.8
−43
−43.2
−43.4
−43.6
−43.8
−44
−44.2
−44.4
−44.6
−44.8
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 43
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

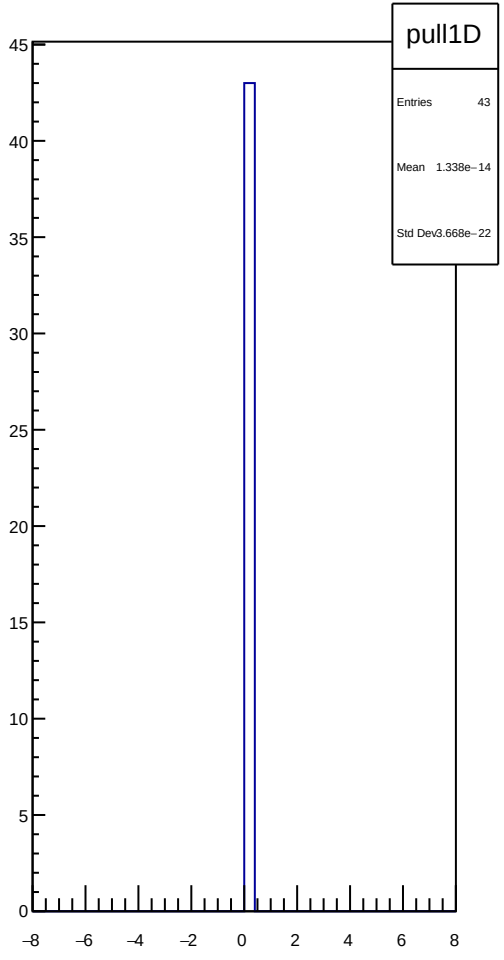

dit_usr_4aY_slope vs run
χ² / ndf 4.302e−29 / 42
p0 −0.8574 ± 0.06771
−0.4
−0.6
−0.8
−1
−1.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
1
0.8
0.6
0.4
0.2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41

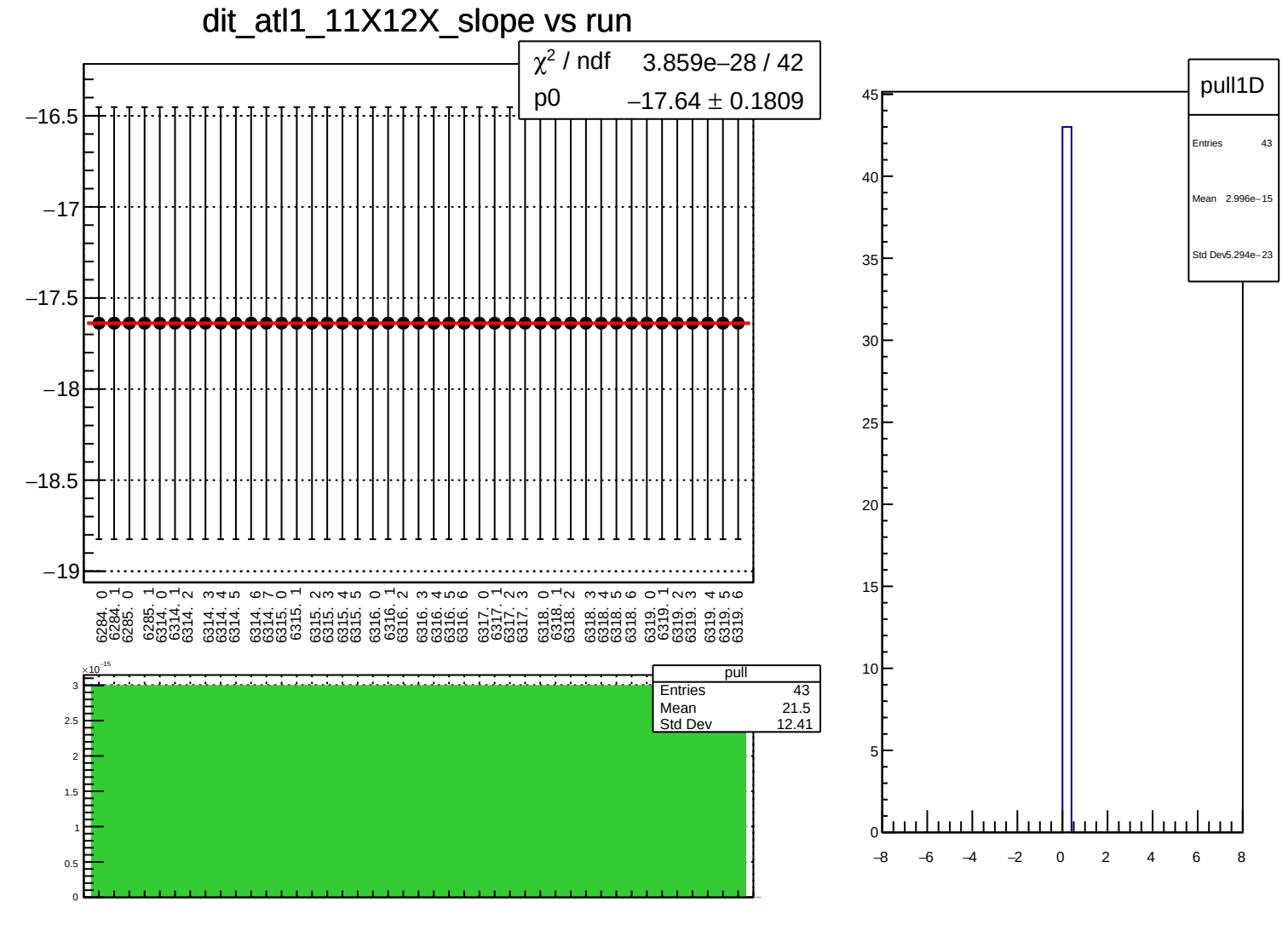

pull1D
Entries 43
Mean 1e−15
Std Dev1.323e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

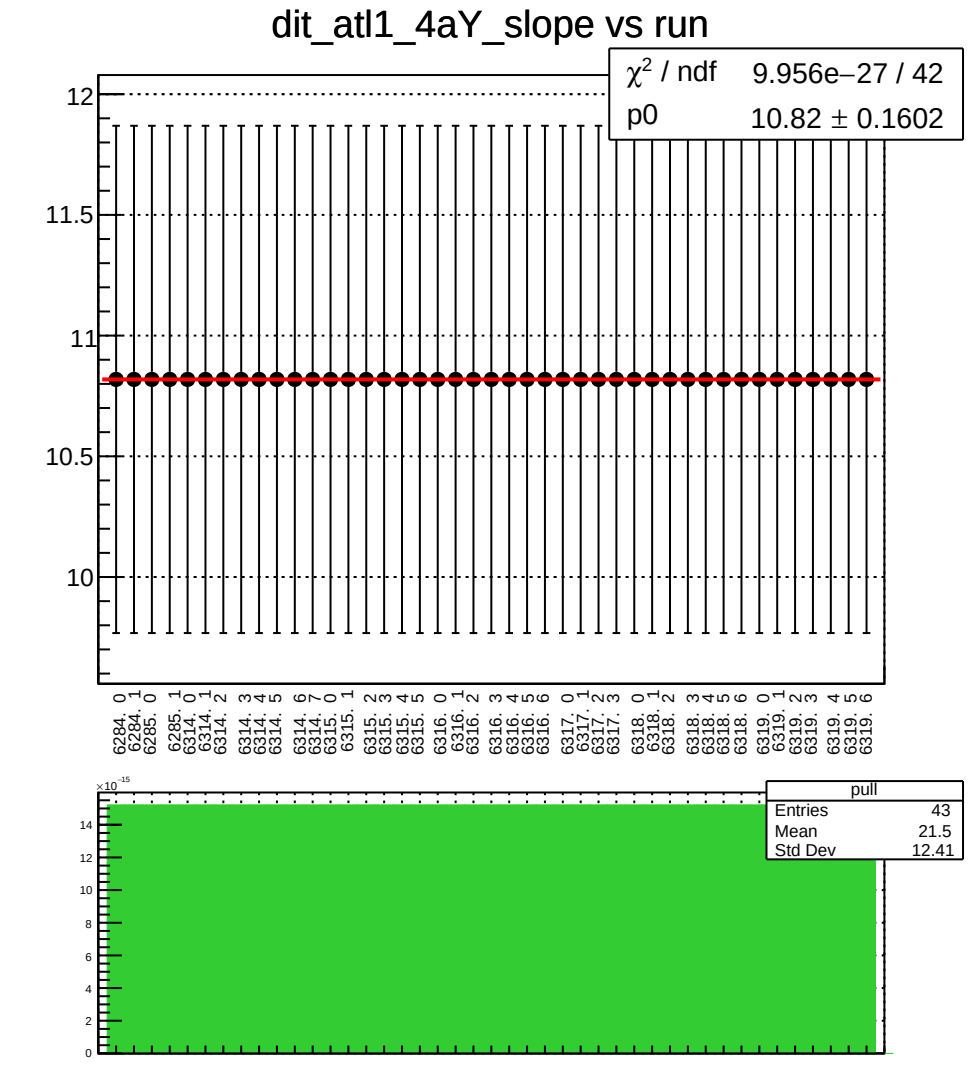

dit_usr_4eY_slope vs run
χ² / ndf 1.311e−25 / 42
p0 17.41 ± 0.02943
17.6
17.55
17.5
17.45
17.4
17.35
17.3
17.25
17.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −5.522e−14
Std Dev 1.986e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

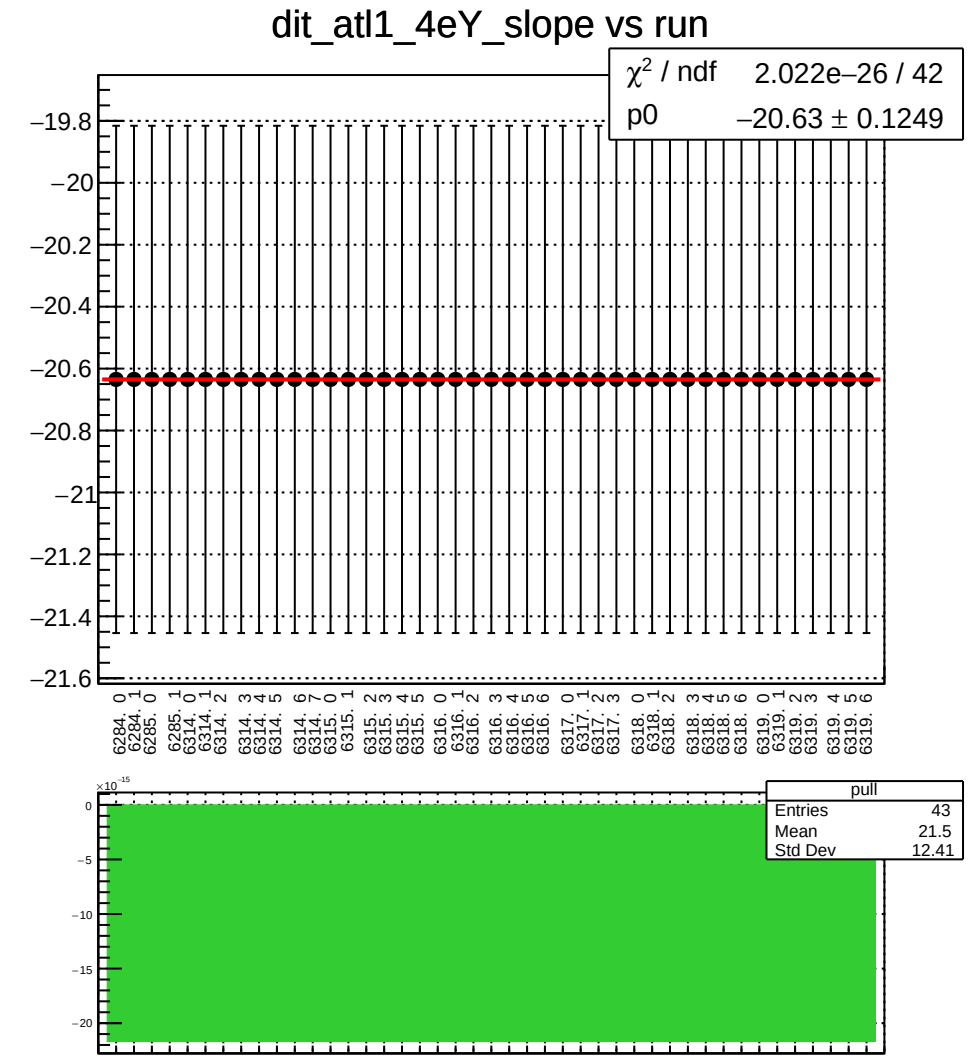

dit_atl1_4aX_slope vs run
χ² / ndf 2.921e−28 / 42
p0 −46.08 ± 0.8315
−40
−42
−44
−46
−48
−50
−52
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −2.606e−15
Std Dev9.904e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

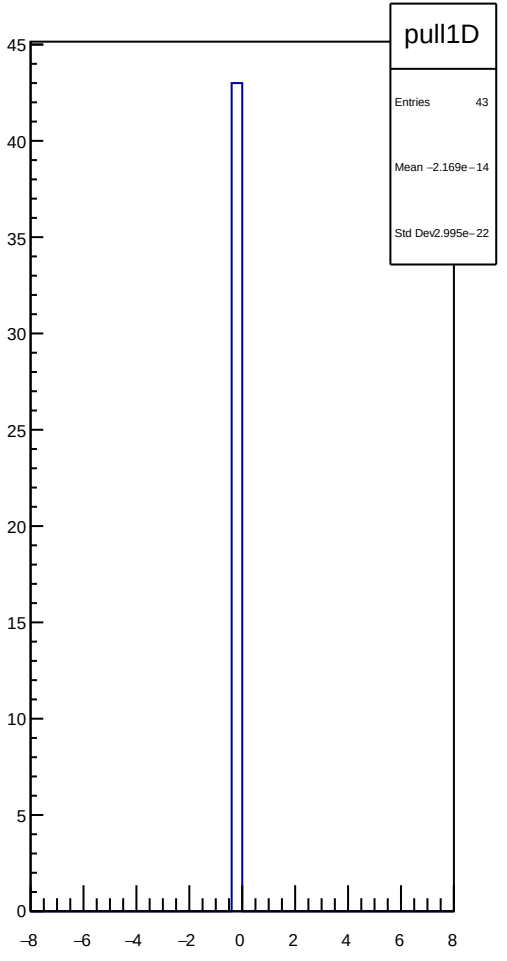

dit_atl1_4eX_slope vs run
χ² / ndf 7.702e−27 / 42
p0 89.03 ± 0.8096
94
92
90
88
86
84
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
14
12
10
8
6
4
2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41

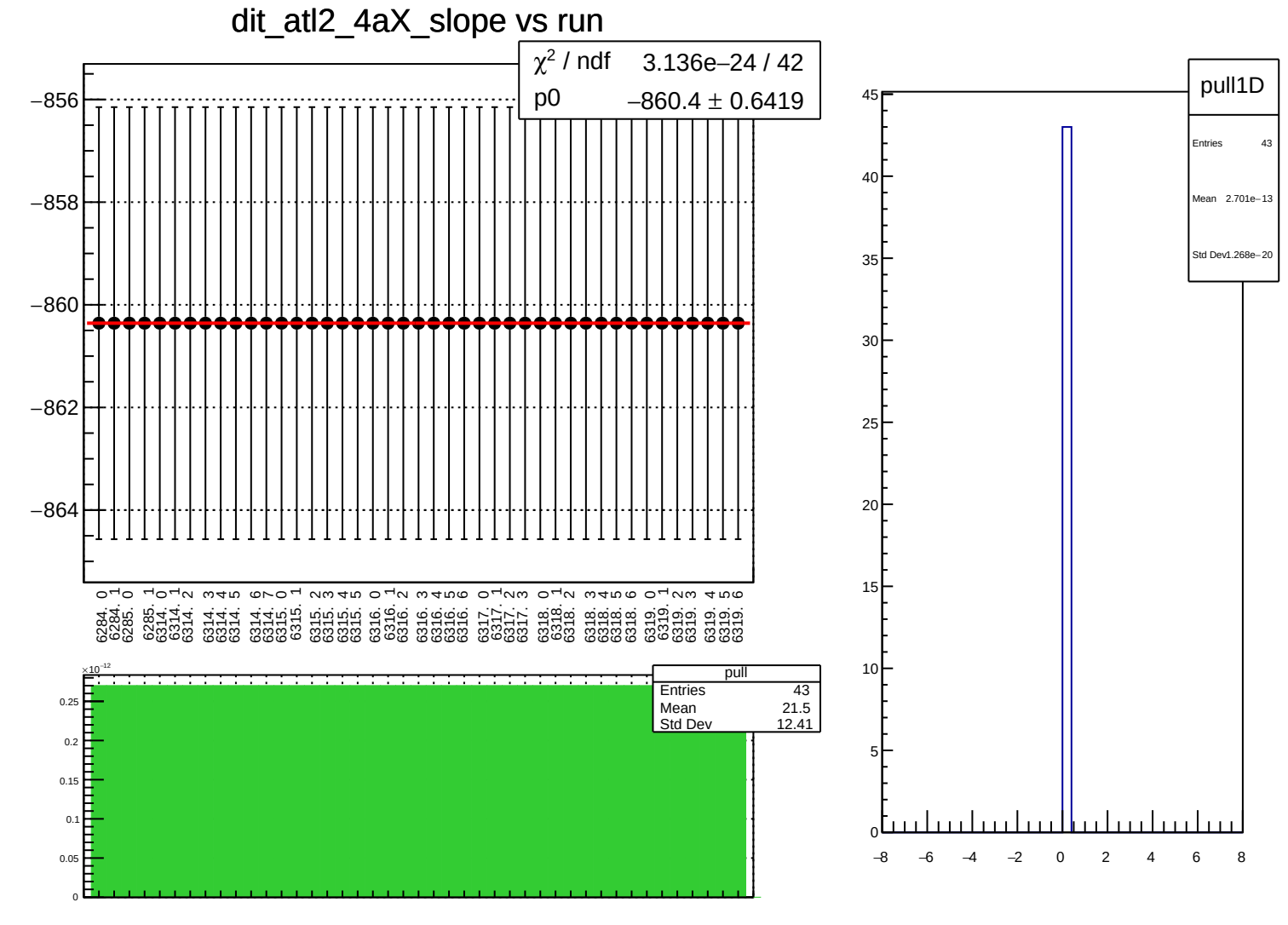

pull1D
Entries 43
Mean 1.338e−14
Std Dev3.668e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

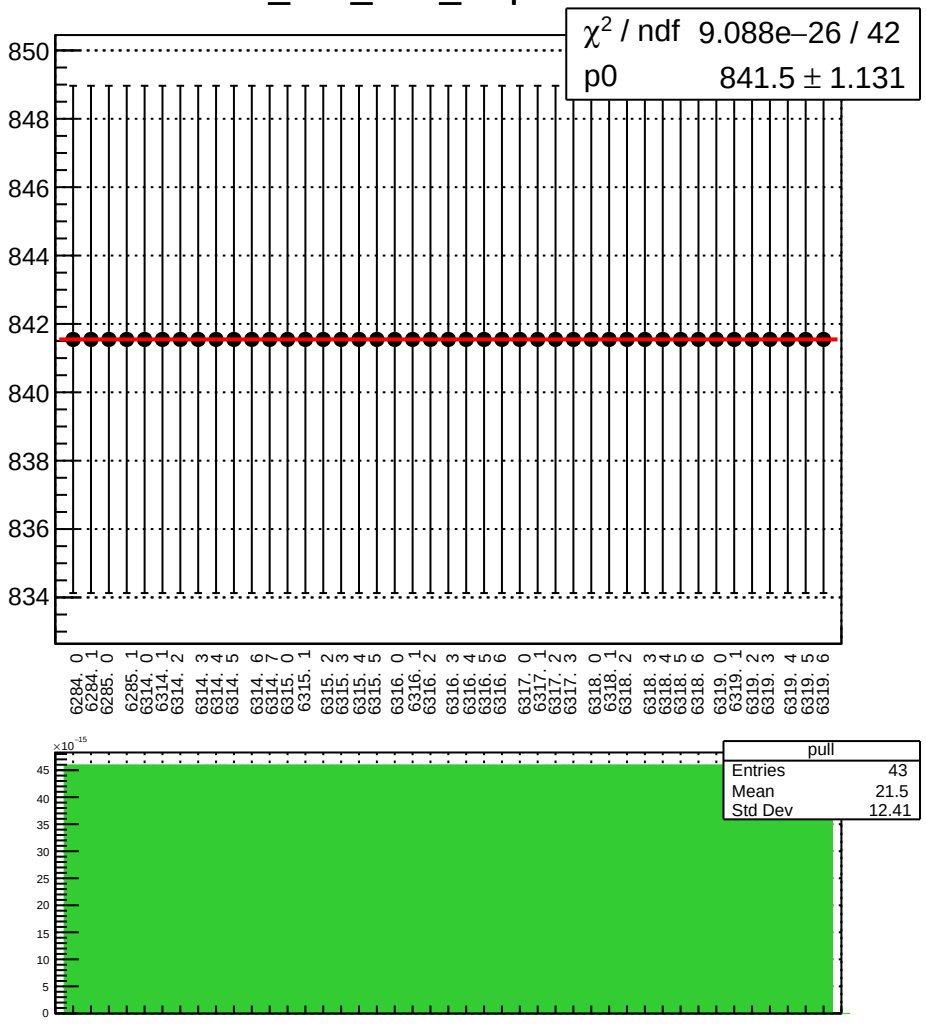

dit_atl1_11X12X_slope vs run
χ² / ndf 3.859e−28 / 42
p0 −17.64 ± 0.1809
−16.5
−17
−17.5
−18
−18.5
−19
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
3
2.5
2
1.5
1
0.5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 2.996e−15
Std Dev 5.294e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

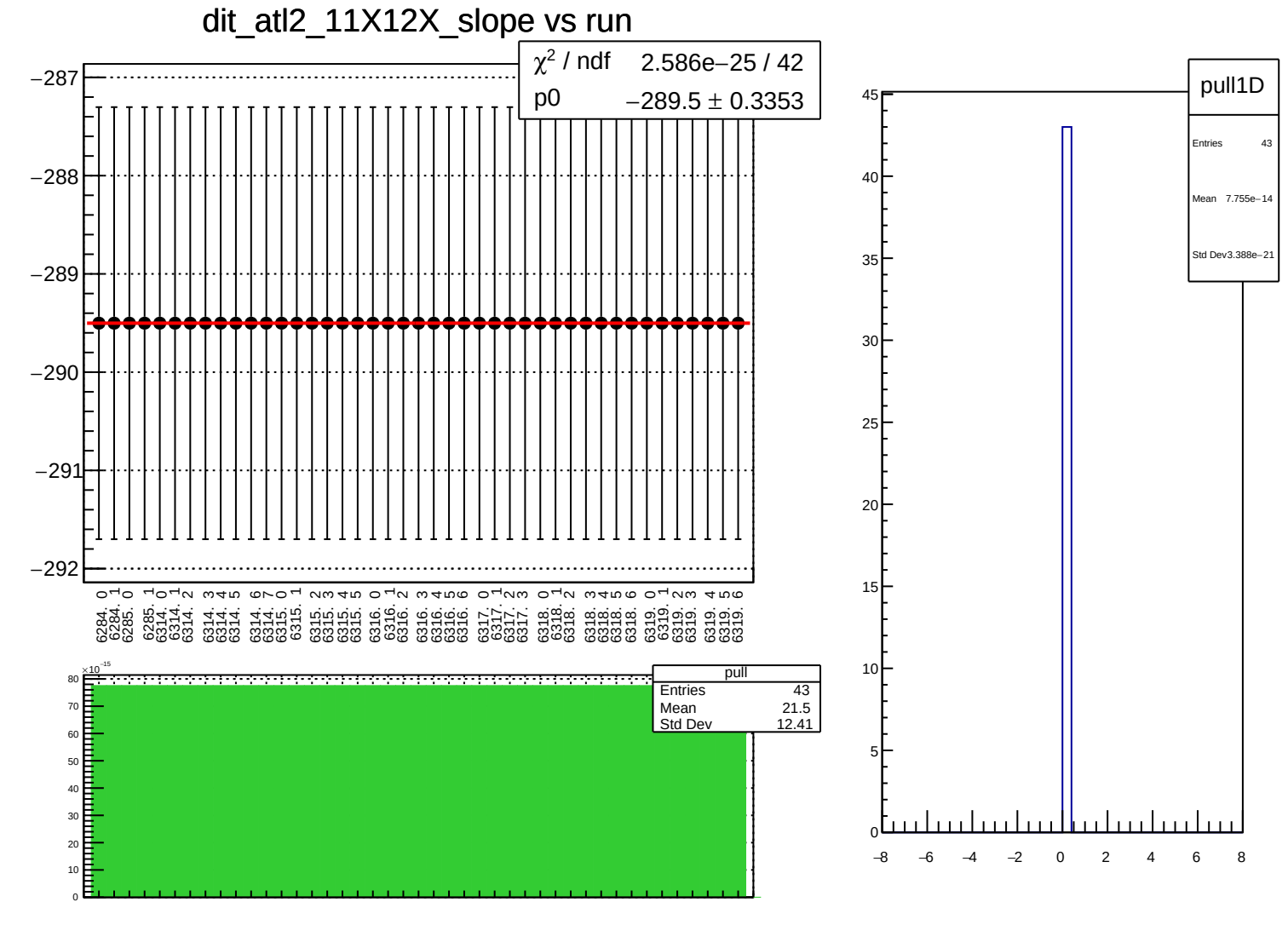

dit_atl1_4aY_slope vs run
χ² / ndf 9.956e−27 / 42
p0 10.82 ± 0.1602
12
11.5
11
10.5
10
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 1.522e−14
Std Dev5.603e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

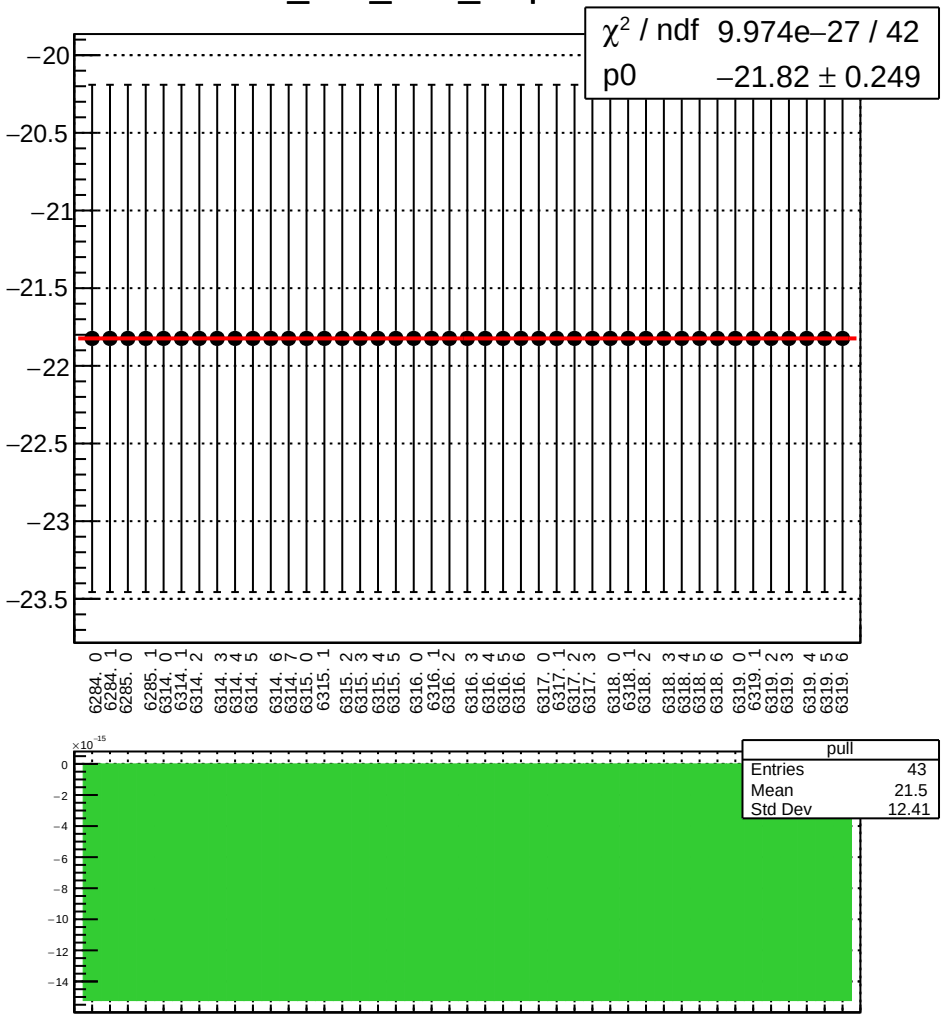

dit_atl1_4eY_slope vs run
χ² / ndf 2.022e−26 / 42
p0 −20.63 ± 0.1249
−19.8
−20
−20.2
−20.4
−20.6
−20.8
−21
−21.2
−21.4
−21.6
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 43
Mean 21.5
Std Dev 12.41

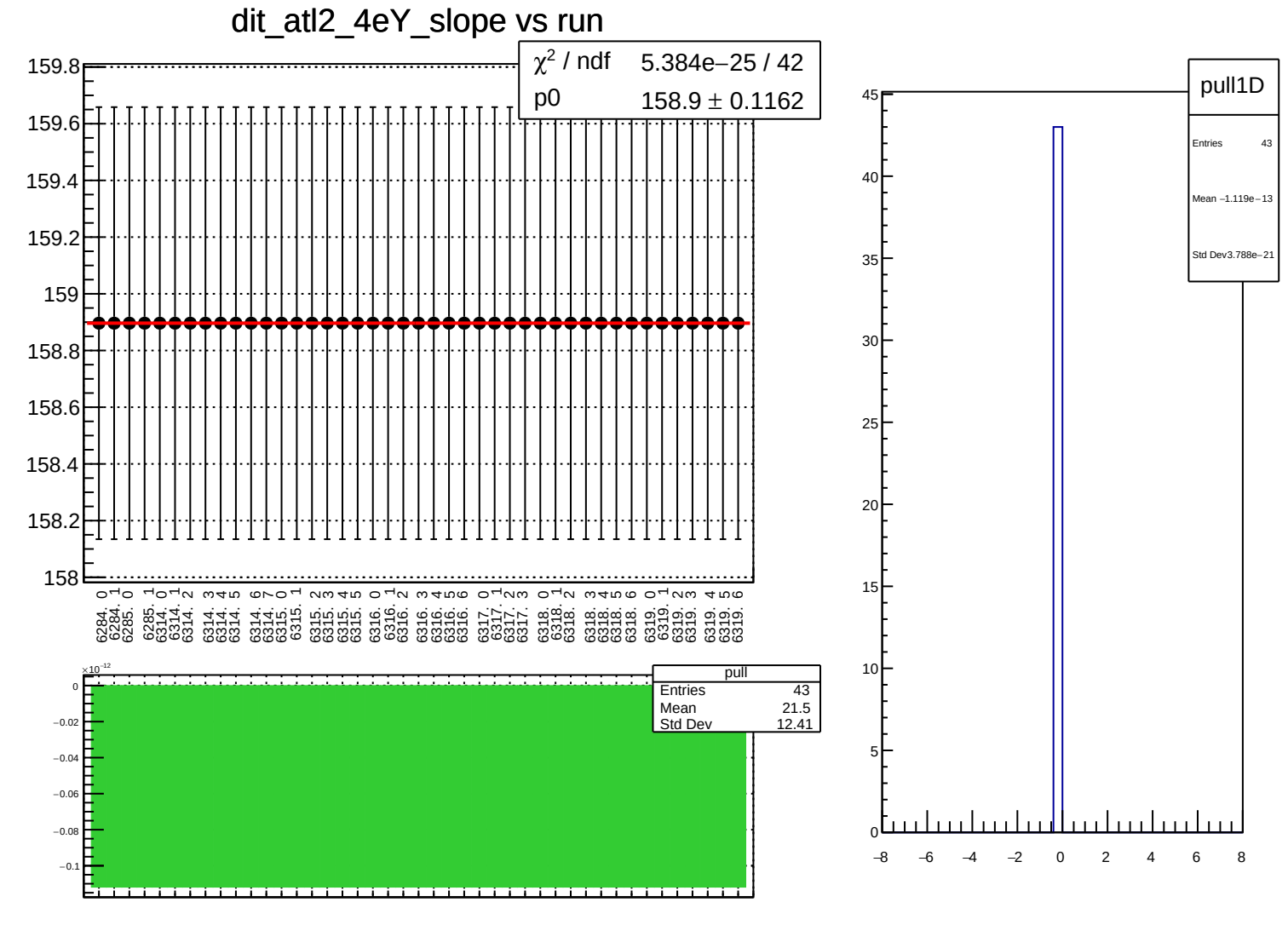

pull1D
Entries 43
Mean −2.169e−14
Std Dev 2.995e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

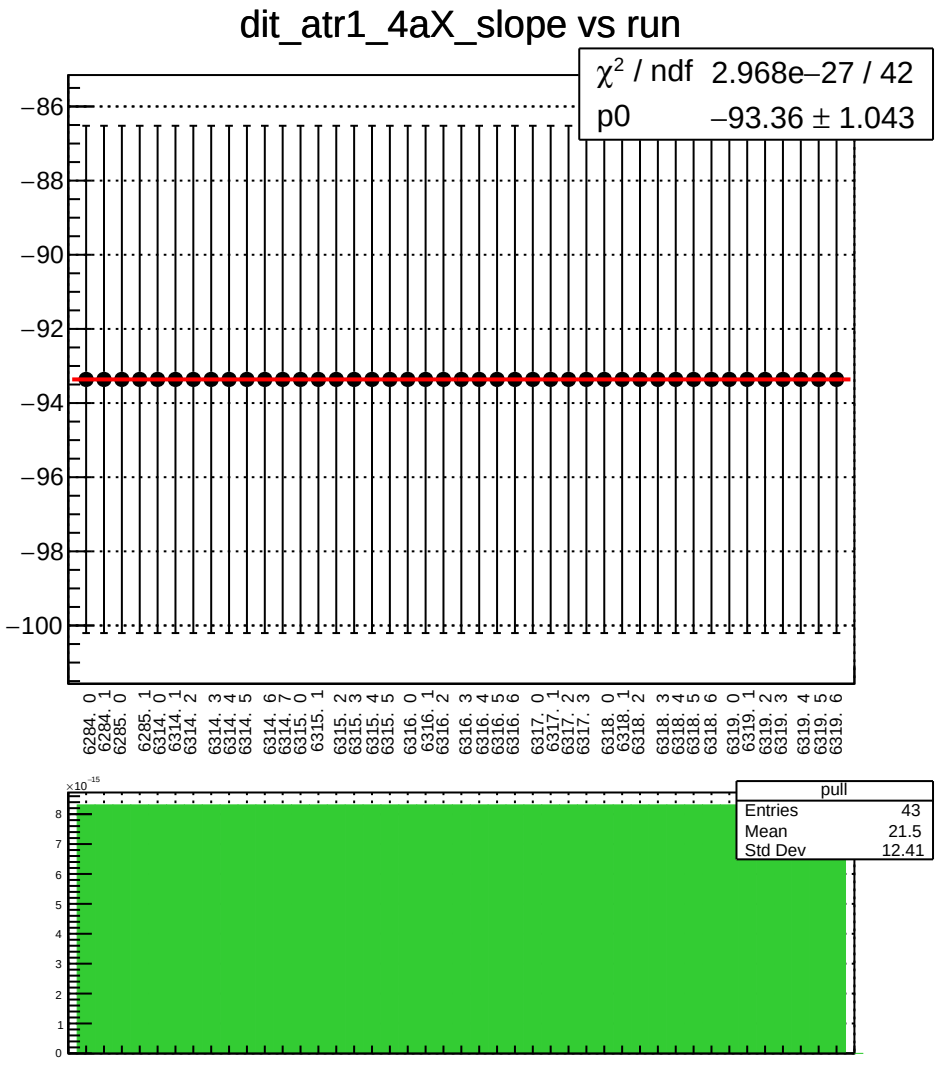

dit_atl2_4aX_slope vs run
χ² / ndf 3.136e−24 / 42
p0 −860.4 ± 0.6419
−856
−858
−860
−862
−864
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹²
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 2.701e−13
Std Dev1.268e−20
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

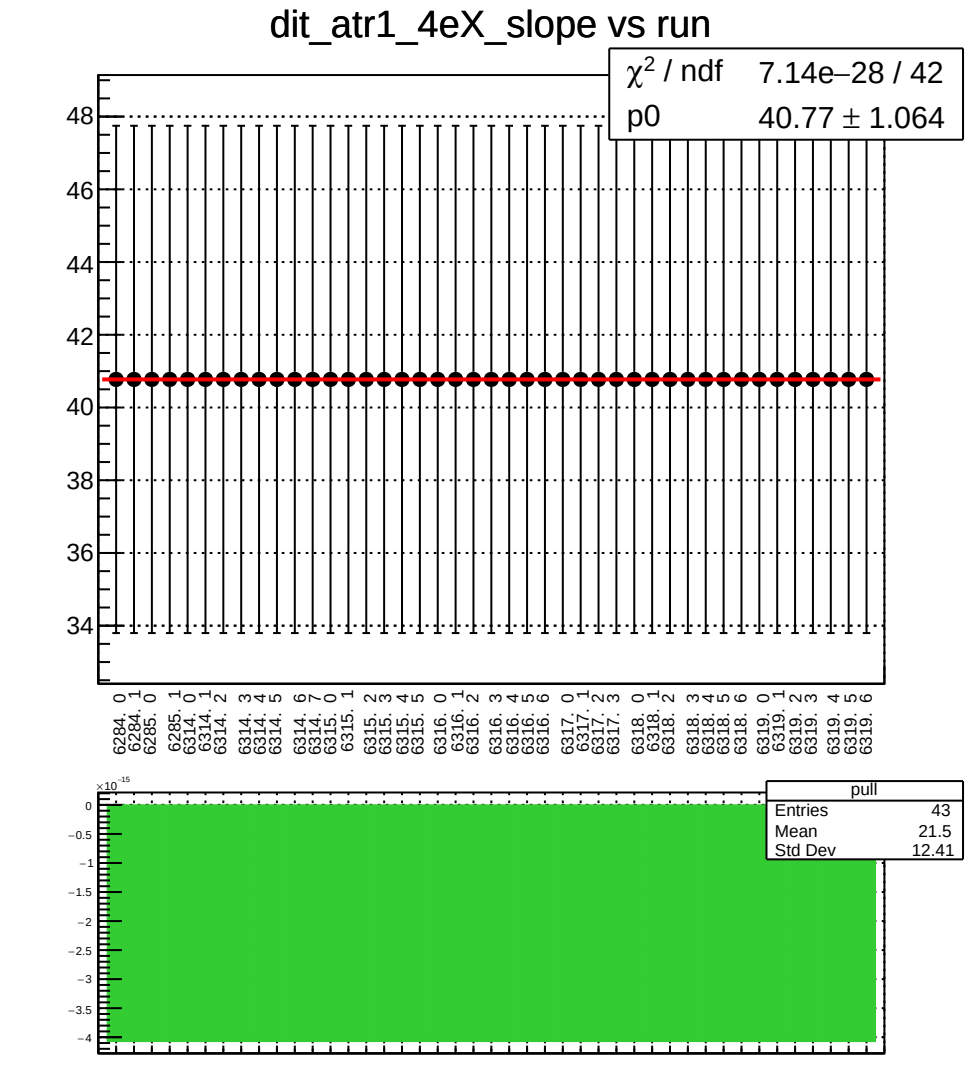

dit_atl2_4eX_slope vs run
χ^2 / ndf 9.088e−26 / 42
p0 841.5 ± 1.131
850
848
846
844
842
840
838
836
834
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 4.597e−14
Std Dev1.585e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

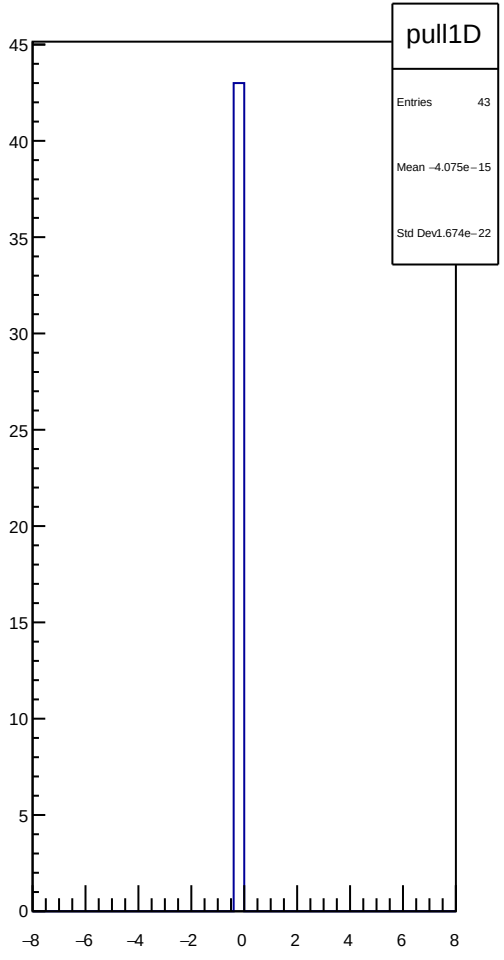

dit_atl2_11X12X_slope vs run
χ² / ndf 2.586e−25 / 42
p0 −289.5 ± 0.3353
−287
−288
−289
−290
−291
−292
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
80
70
60
50
40
30
20
10
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 7.755e−14
Std Dev3.388e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

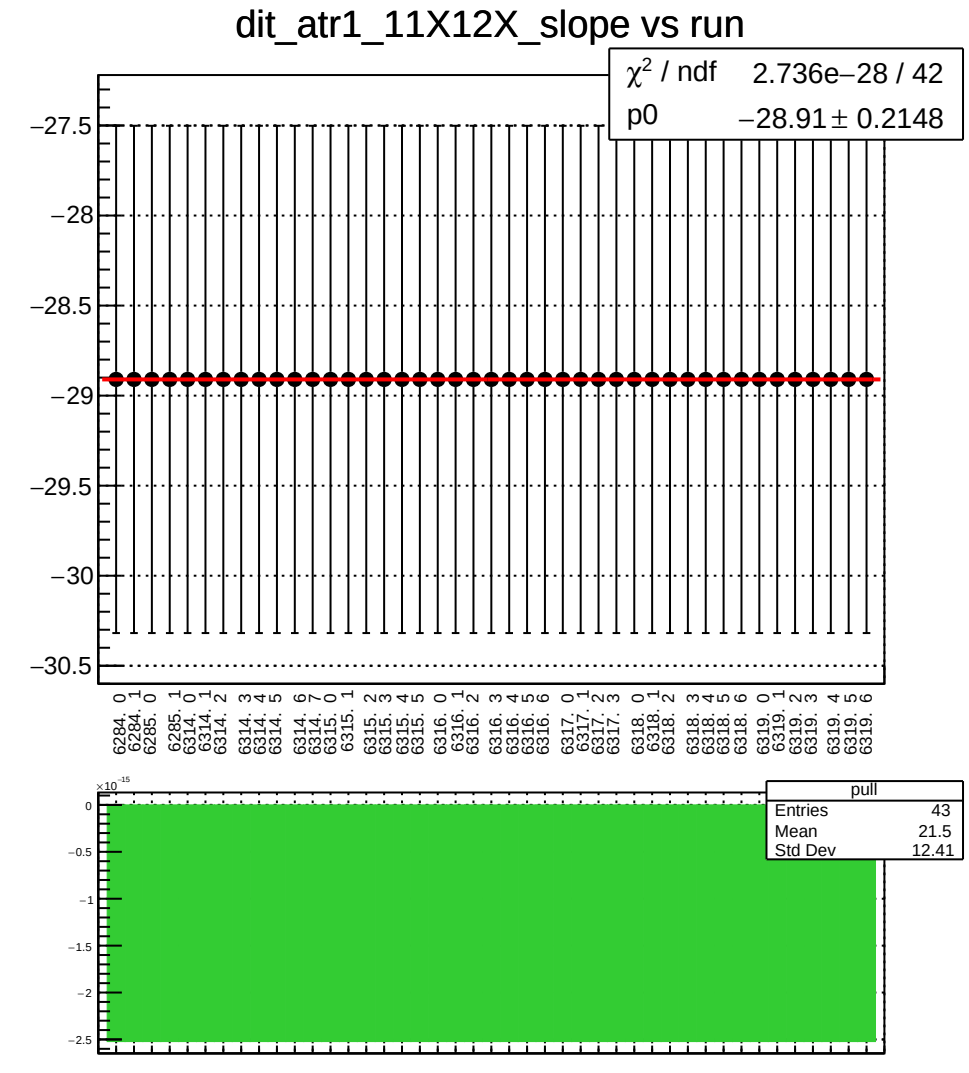

dit_atl2_4aY_slope vs run
χ² / ndf 9.974e−27 / 42
p0 −21.82 ± 0.249
−20
−20.5
−21
−21.5
−22
−22.5
−23
−23.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −1.523e−14
Std Dev3.668e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

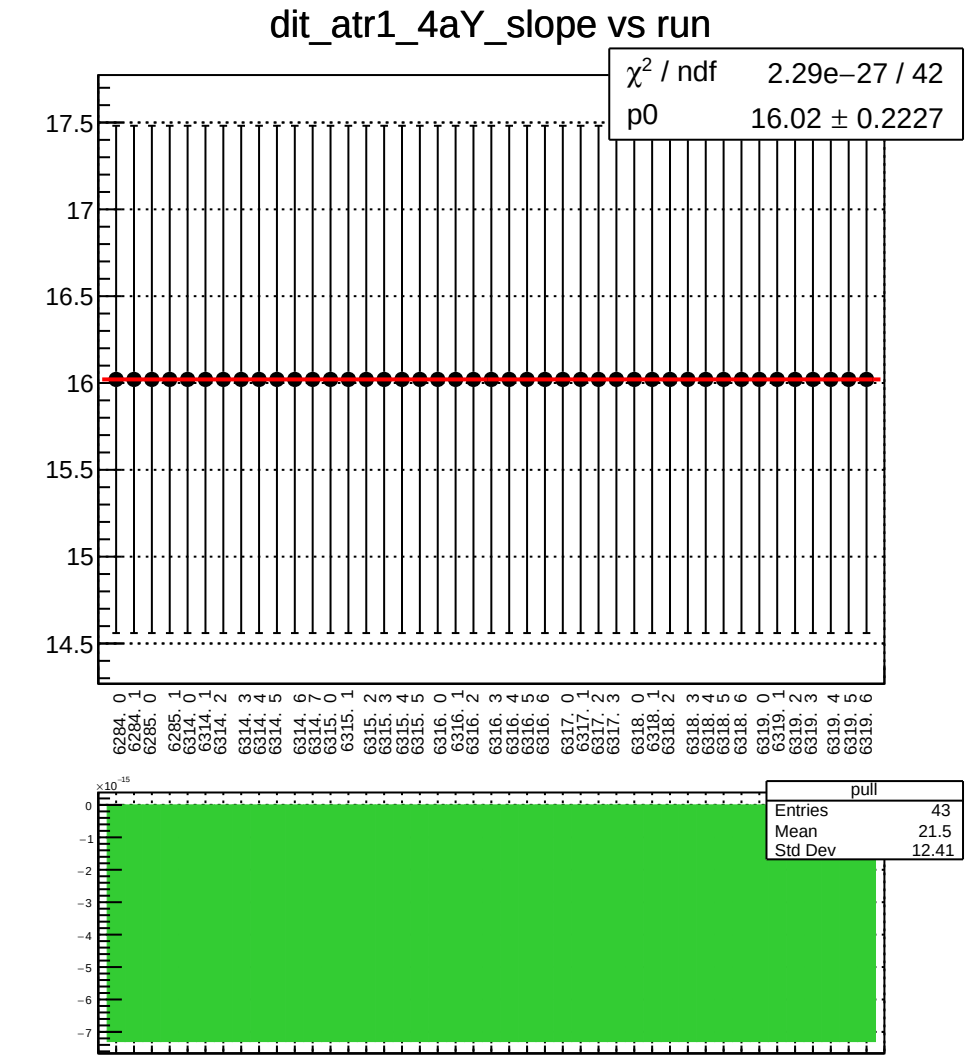

dit_atl2_4eY_slope vs run
χ² / ndf 5.384e−25 / 42
p0 158.9 ± 0.1162
159.8
159.6
159.4
159.2
159
158.8
158.6
158.4
158.2
158
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −1.119e−13
Std Dev3.788e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

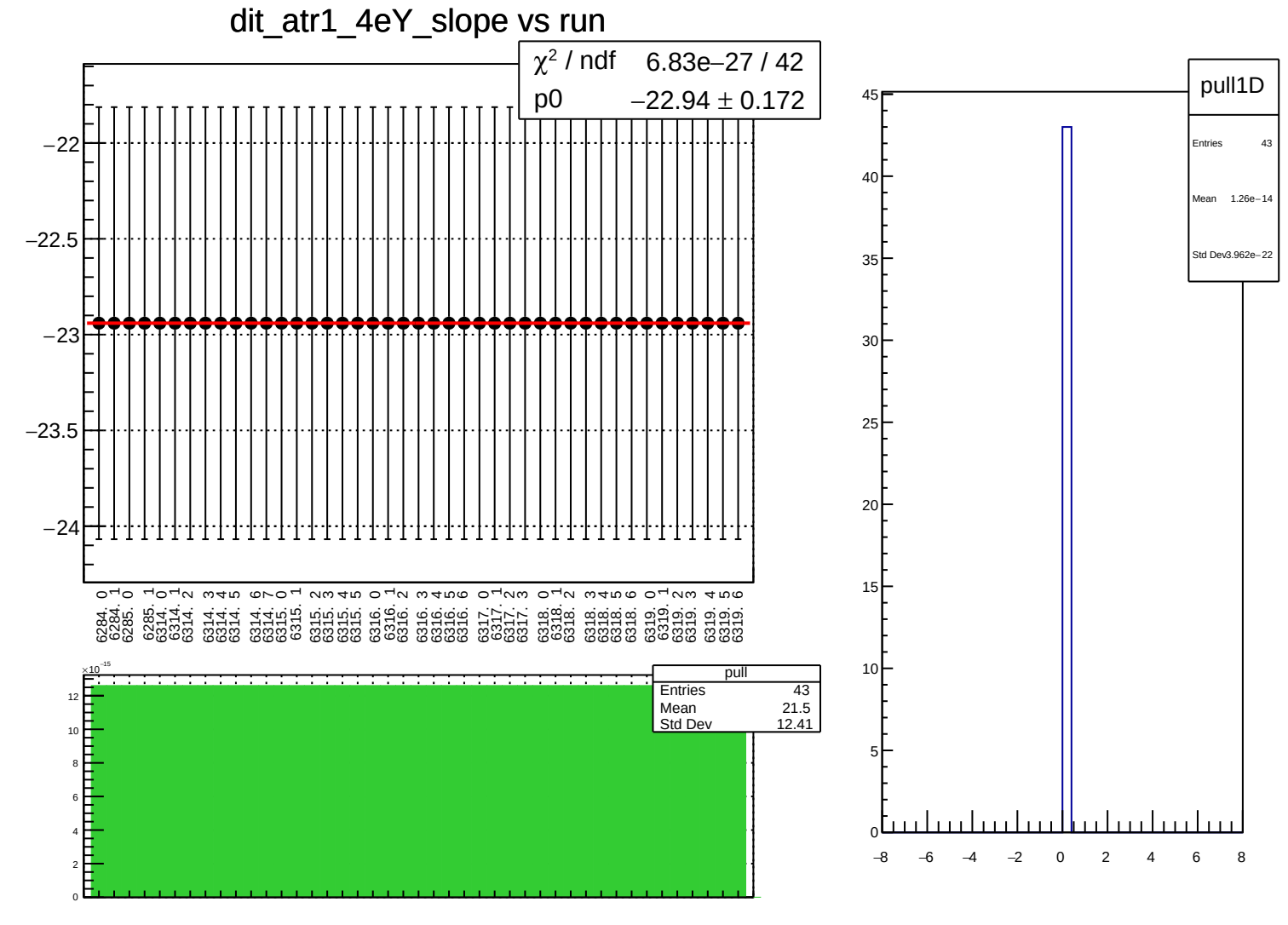

dit_atr1_4aX_slope vs run
χ² / ndf 2.968e−27 / 42
p0 −93.36 ± 1.043
−86
−88
−90
−92
−94
−96
−98
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
8
7
6
5
4
3
2
1
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 8.308e−15
Std Dev1.834e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

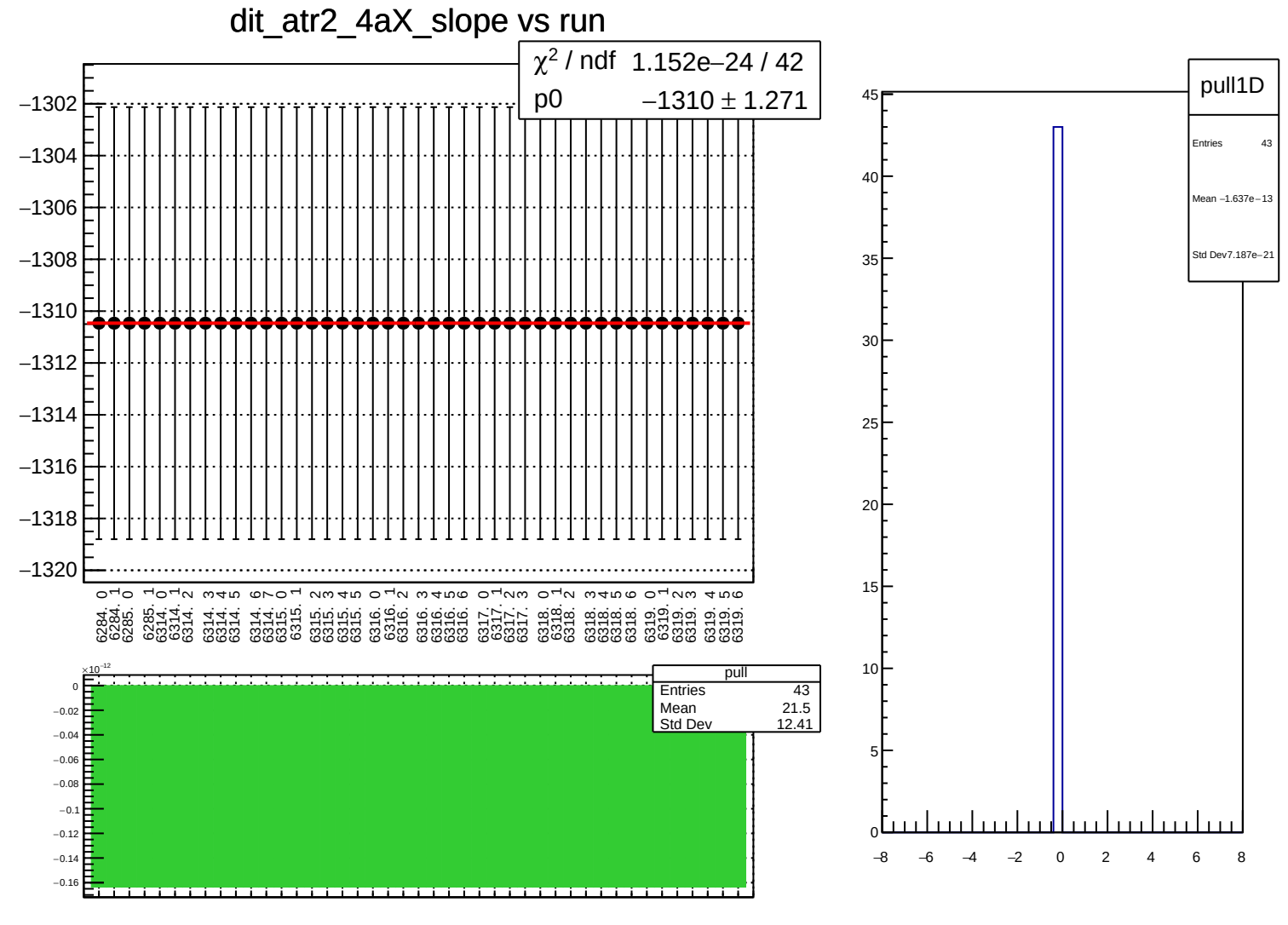

dit_atr1_4eX_slope vs run
χ² / ndf 7.14e−28 / 42
p0 40.77 ± 1.064
48
46
44
42
40
38
36
34
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 43
Mean 21.5
Std Dev 12.41

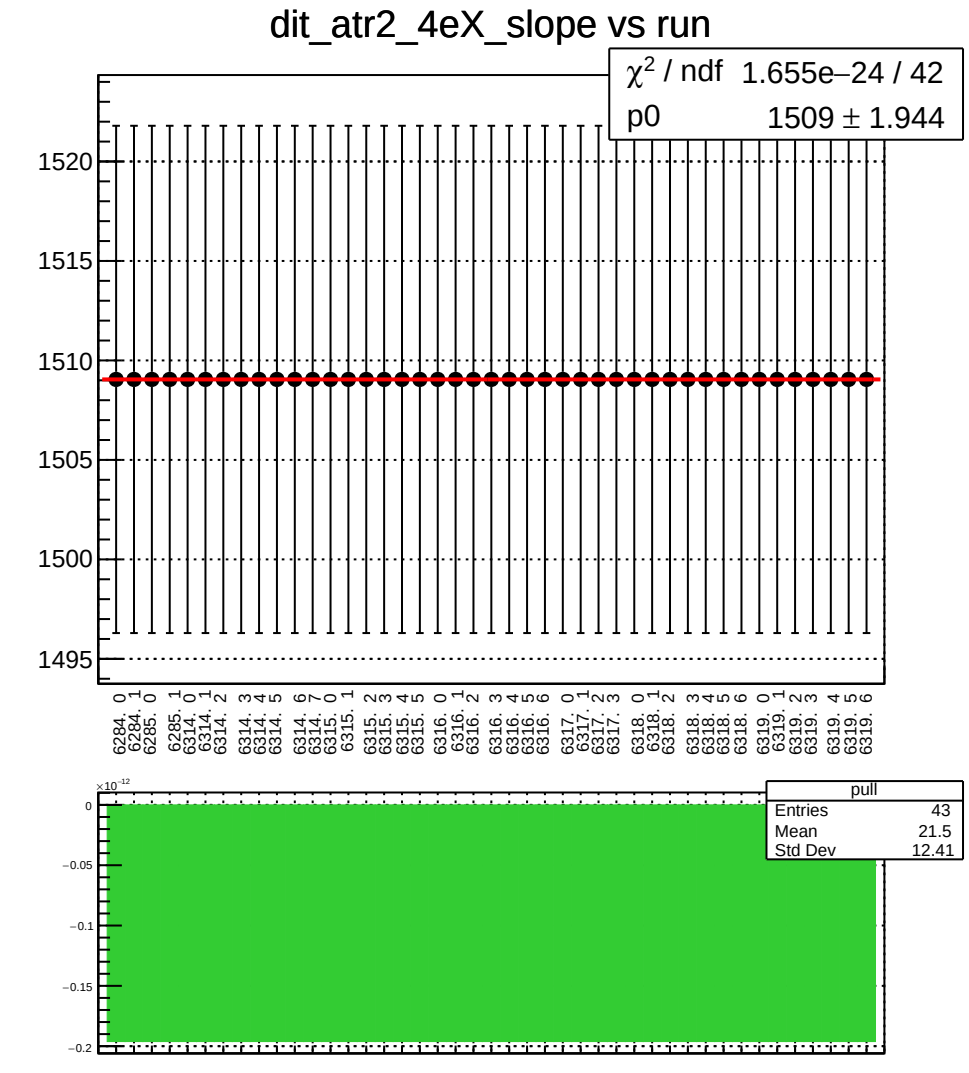

pull1D
Entries 43
Mean −4.075e−15
Std Dev1.674e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

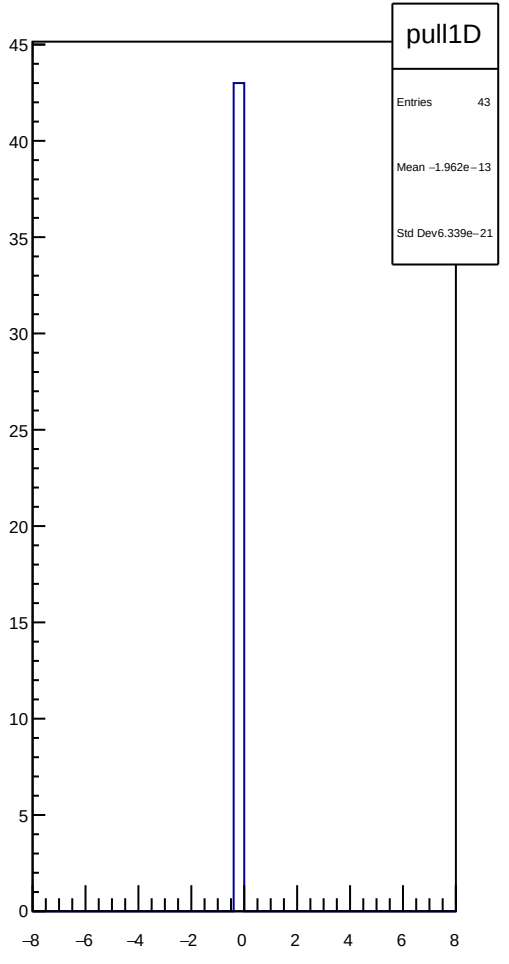

dit_atr1_11X12X_slope vs run
χ² / ndf 2.736e−28 / 42
p0 −28.91 ± 0.2148
−27.5
−28
−28.5
−29
−29.5
−30
−30.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −2.522e−15
Std Dev1.059e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

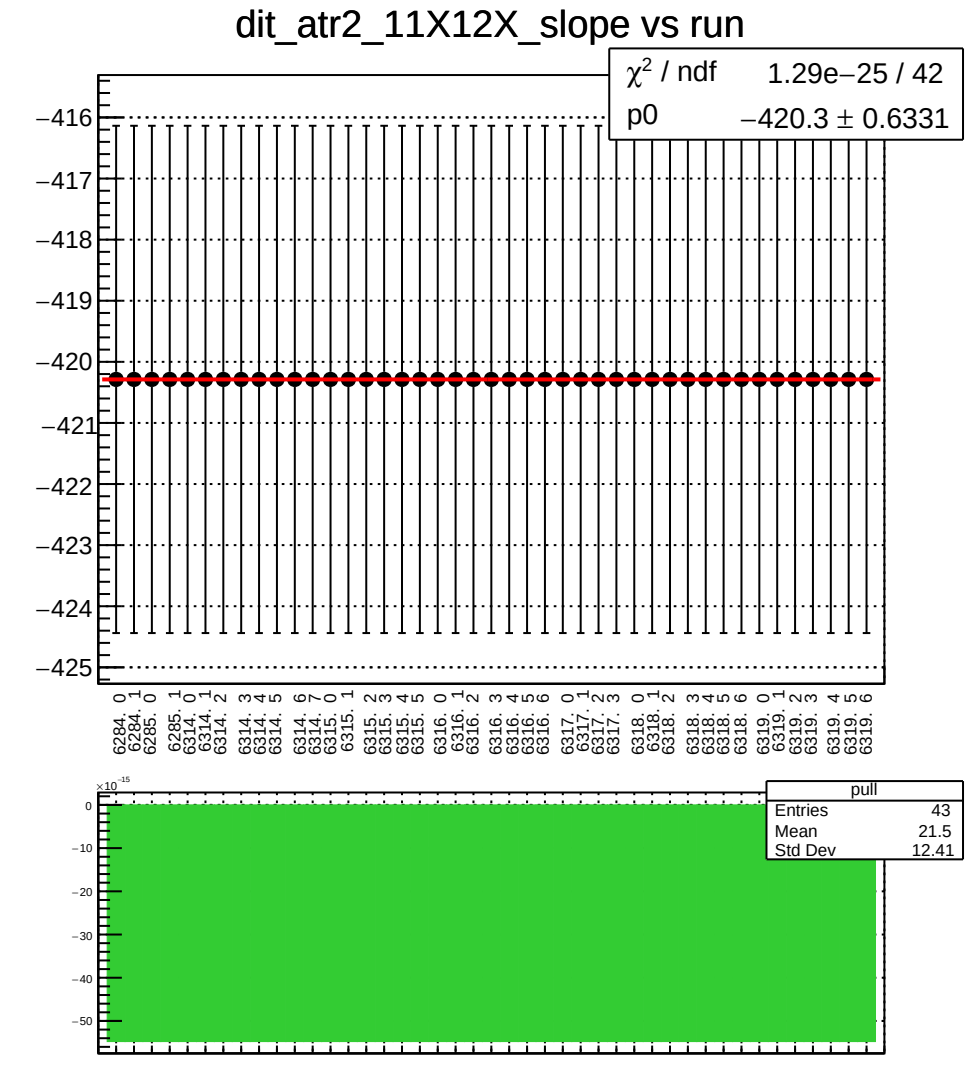

dit_atr1_4aY_slope vs run
χ² / ndf 2.29e−27 / 42
p0 16.02 ± 0.2227
17.5
17
16.5
16
15.5
15
14.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −7.297e−15
Std Dev1.497e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

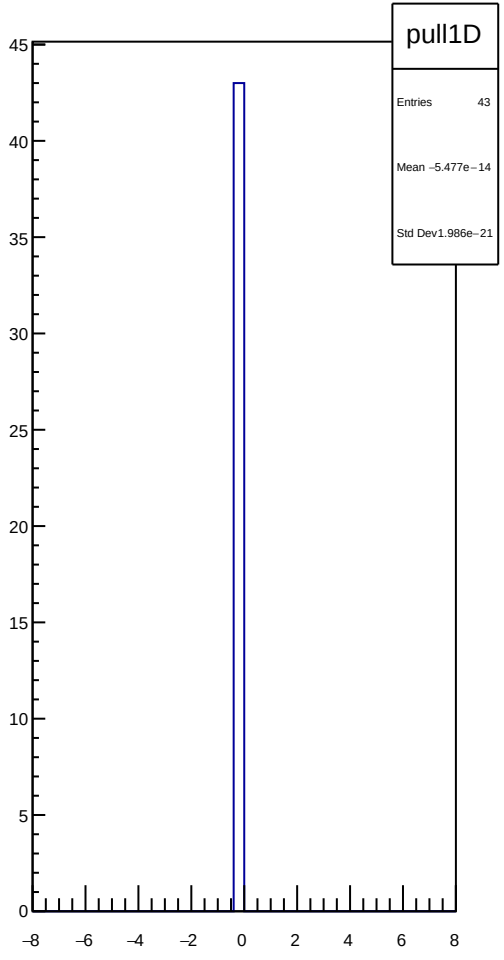

dit_atr1_4eY_slope vs run
χ² / ndf 6.83e−27 / 42
p0 −22.94 ± 0.172
−22
−22.5
−23
−23.5
−24
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
12
10
8
6
4
2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 1.26e−14
Std Dev 3.962e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

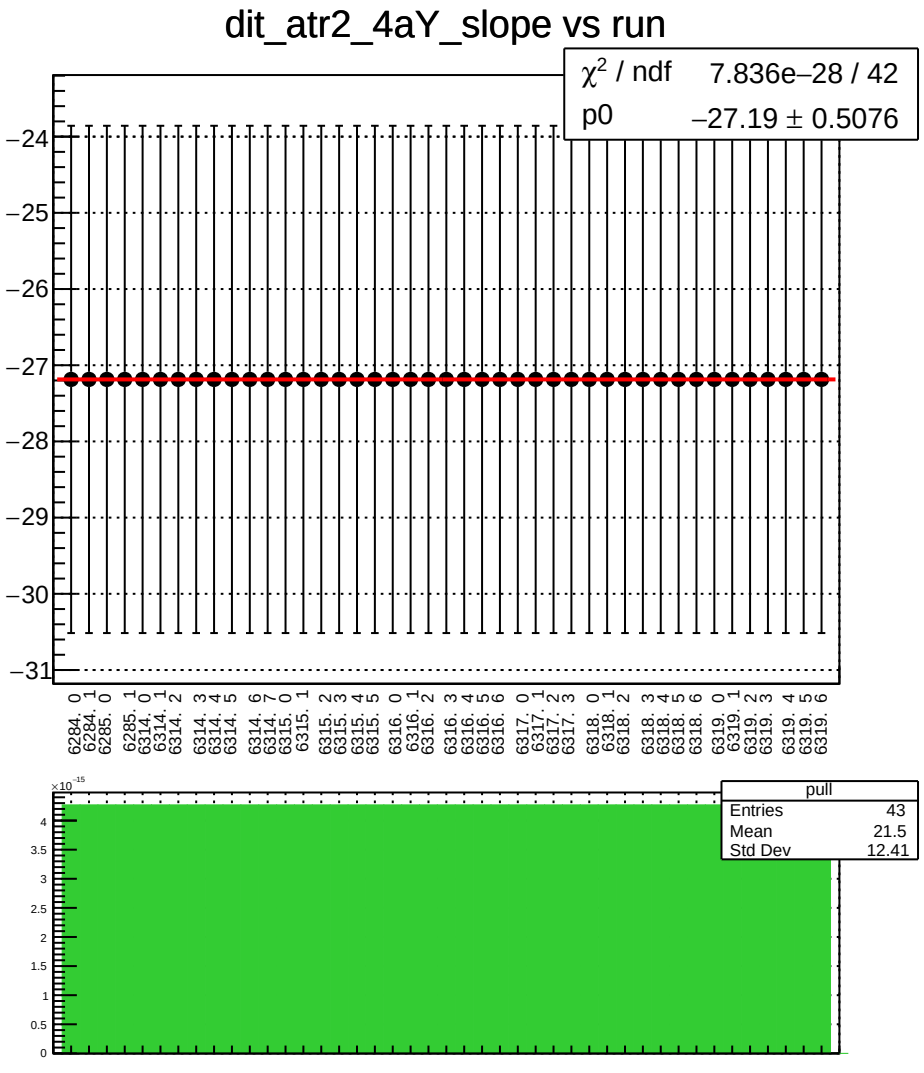

dit_atr2_4aX_slope vs run
χ² / ndf 1.152e−24 / 42
p0 −1310 ± 1.271
−1302
−1304
−1306
−1308
−1310
−1312
−1314
−1316
−1318
−1320
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻±²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −1.637e−13
Std Dev7.187e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

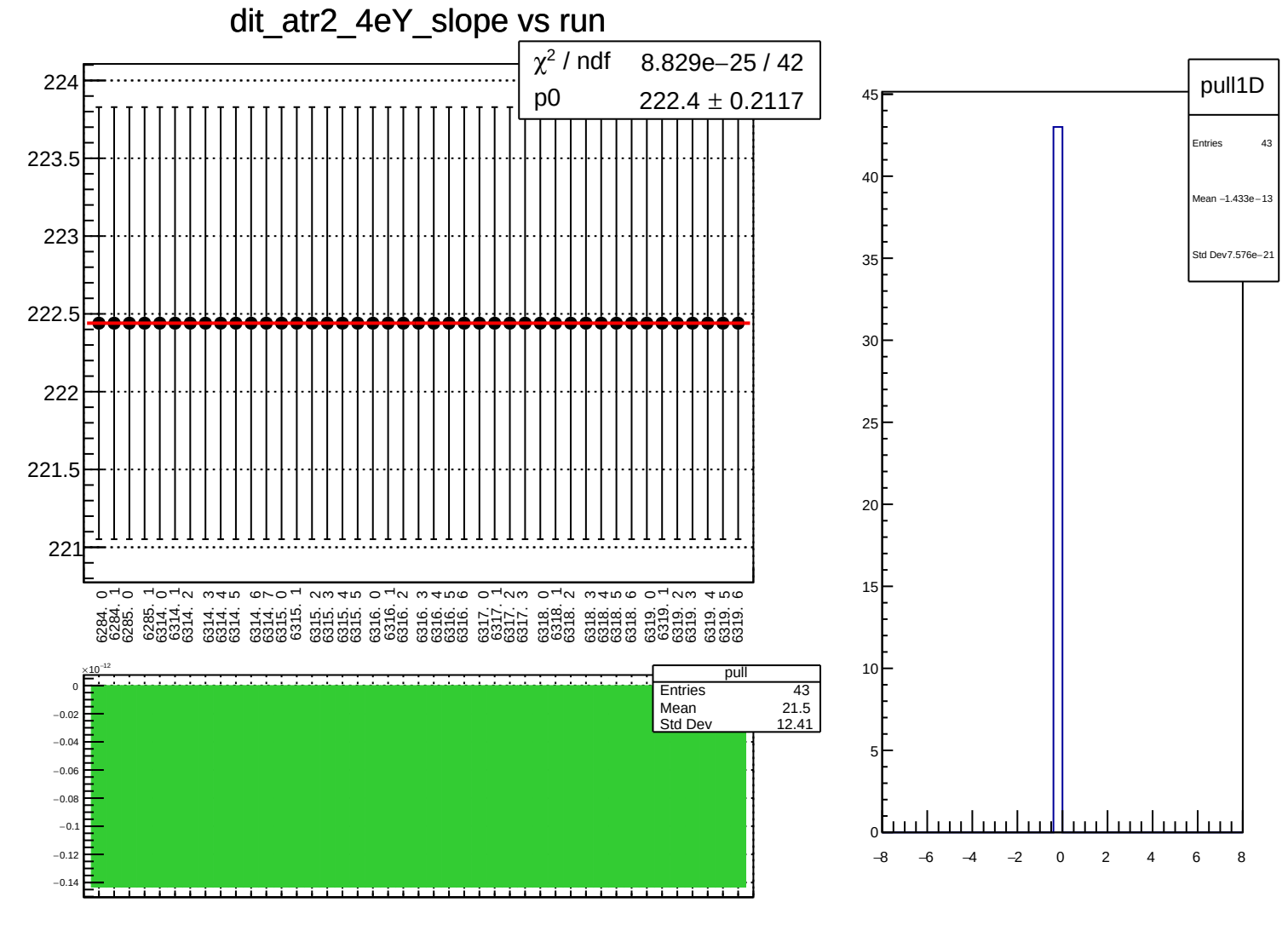

dit_atr2_4eX_slope vs run
χ² / ndf 1.655e−24 / 42
p0 1509 ± 1.944
1520
1515
1510
1505
1500
1495
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 43
Mean 21.5
Std Dev 12.41

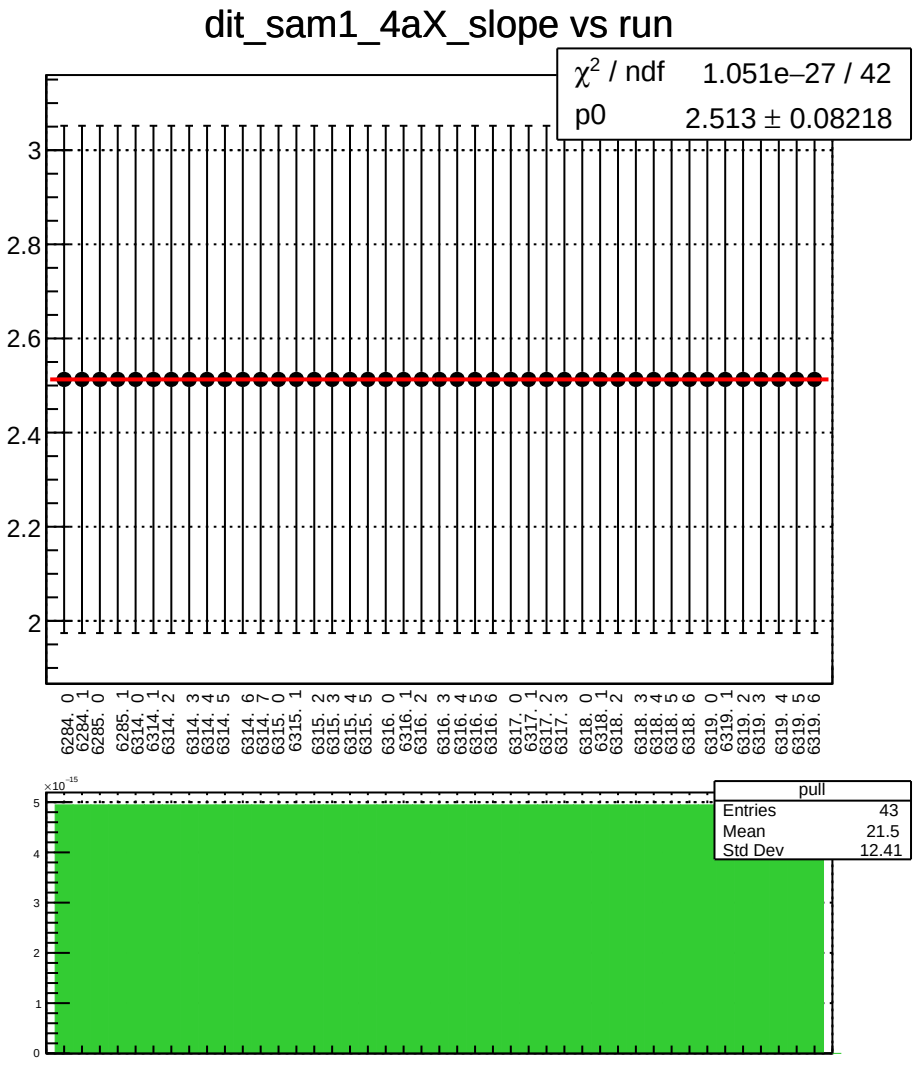

pull1D
Entries 43
Mean −1.962e−13
Std Dev6.339e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

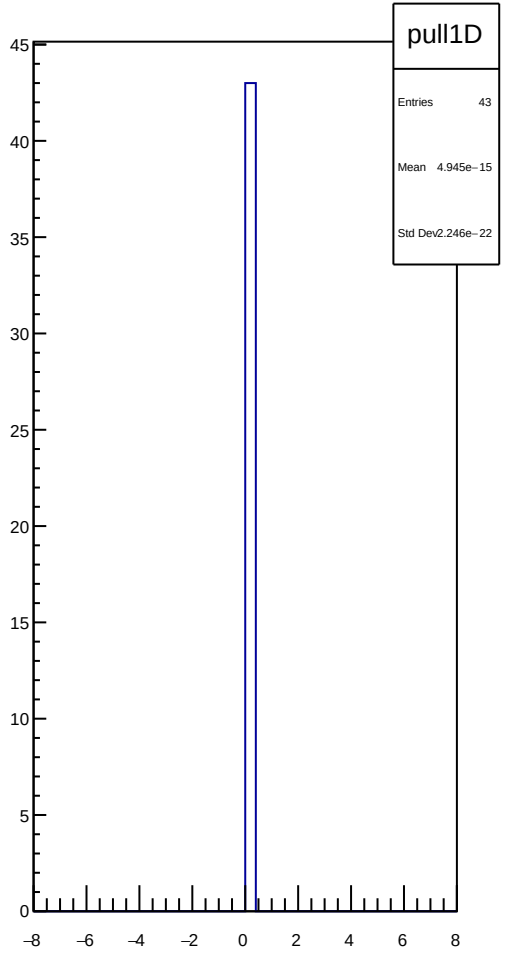

dit_atr2_11X12X_slope vs run
χ² / ndf 1.29e−25 / 42
p0 −420.3 ± 0.6331
−416
−417
−418
−419
−420
−421
−422
−423
−424
−425
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−10
−20
−30
−40
−50
pull
Entries 43
Mean 21.5
Std Dev 12.41

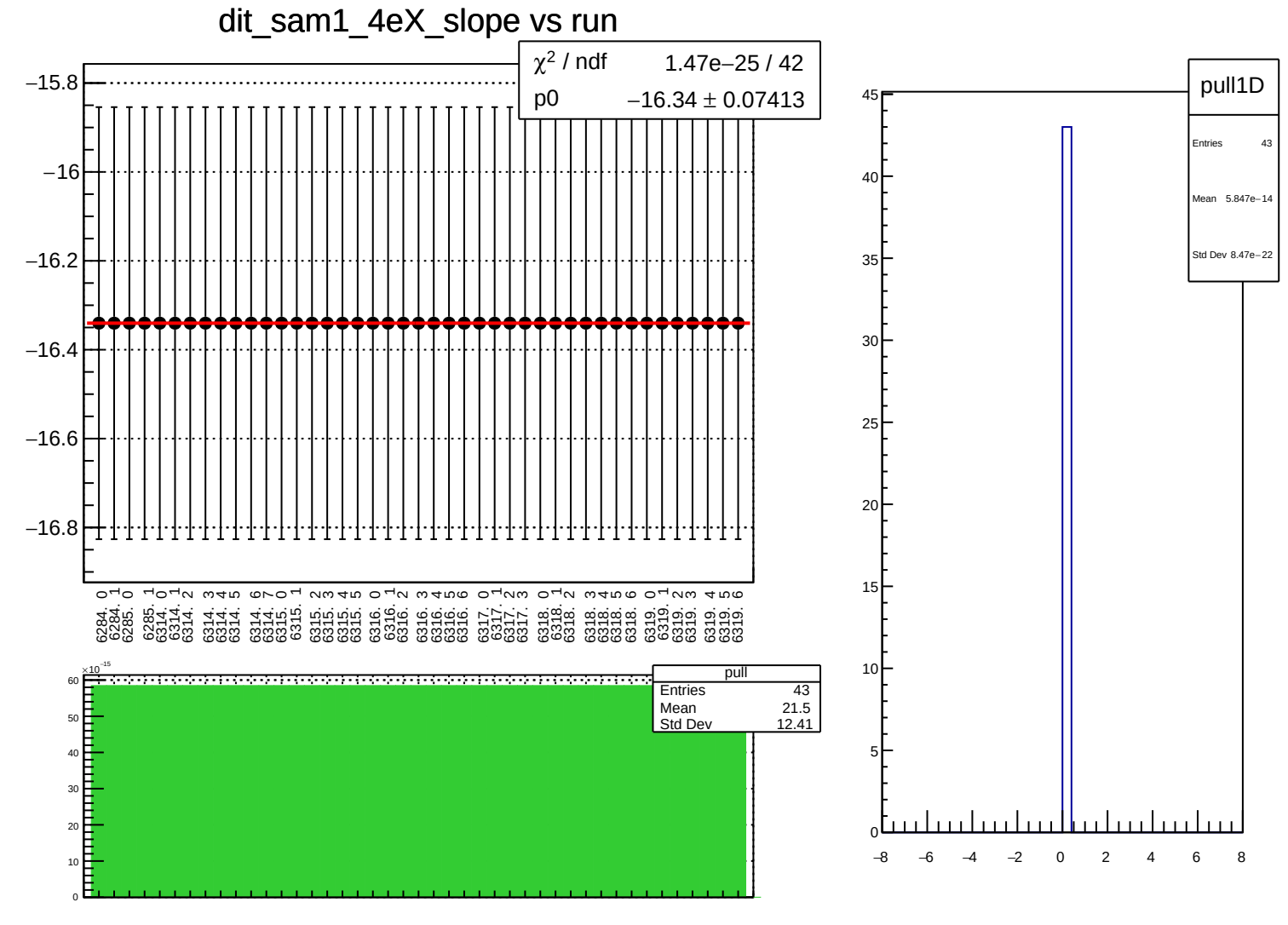

pull1D
Entries 43
Mean −5.477e−14
Std Dev1.986e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

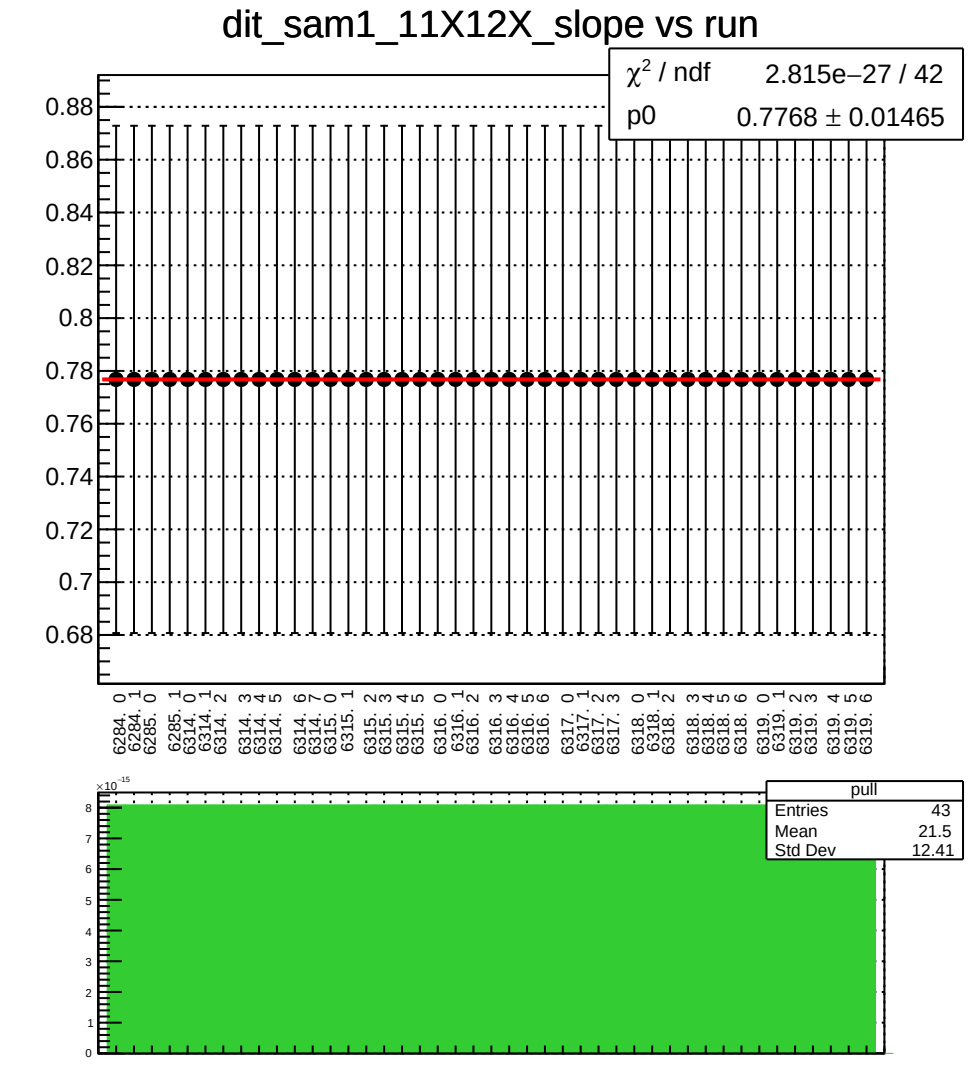

dit_atr2_4aY_slope vs run
χ² / ndf 7.836e−28 / 42
p0 −27.19 ± 0.5076
−24
−25
−26
−27
−28
−29
−30
−31
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 4.269e−15
Std Dev 9.169e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

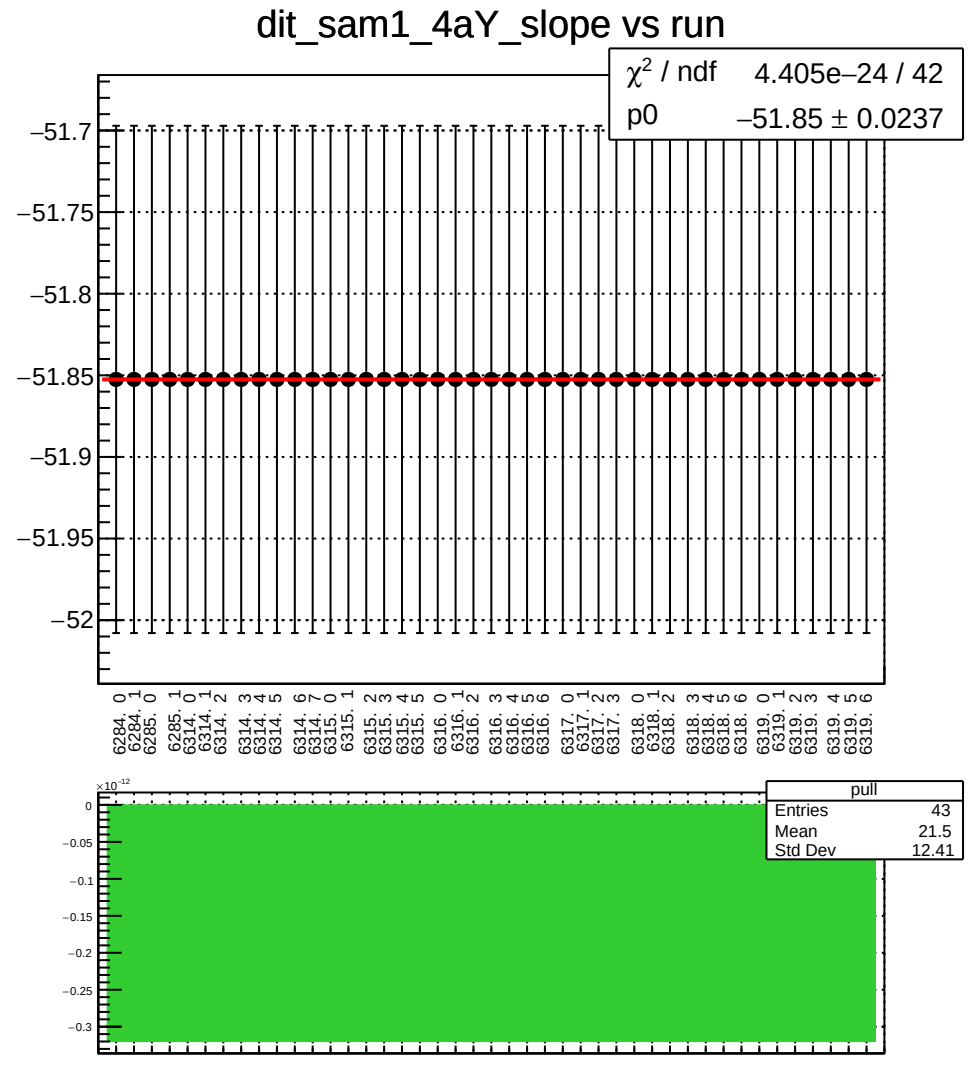

dit_atr2_4eY_slope vs run
χ² / ndf 8.829e−25 / 42
p0 222.4 ± 0.2117
224
223.5
223
222.5
222
221.5
221
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −1.433e−13
Std Dev7.576e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

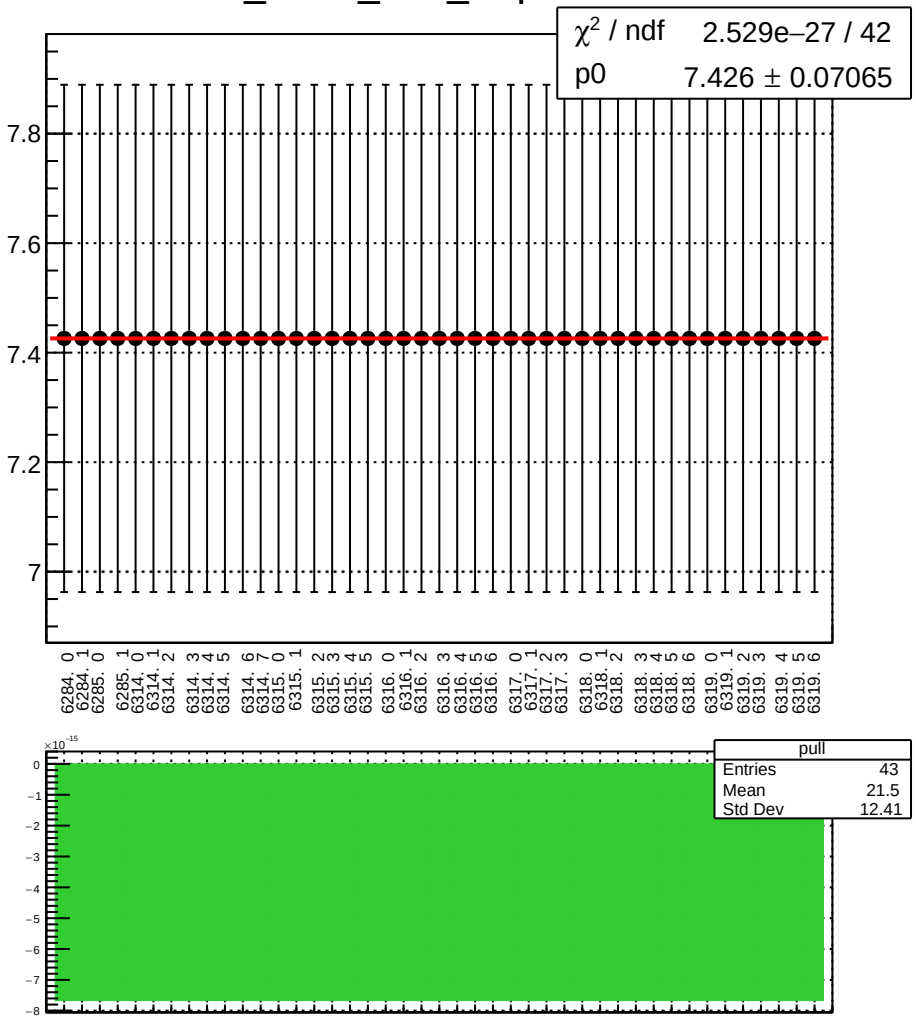

dit_sam1_4aX_slope vs run
χ² / ndf 1.051e−27 / 42
p0 2.513 ± 0.08218
3
2.8
2.6
2.4
2.2
2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
5
4
3
2
1
0
pull
Entries 43
Mean 21.5
Std Dev 12.41

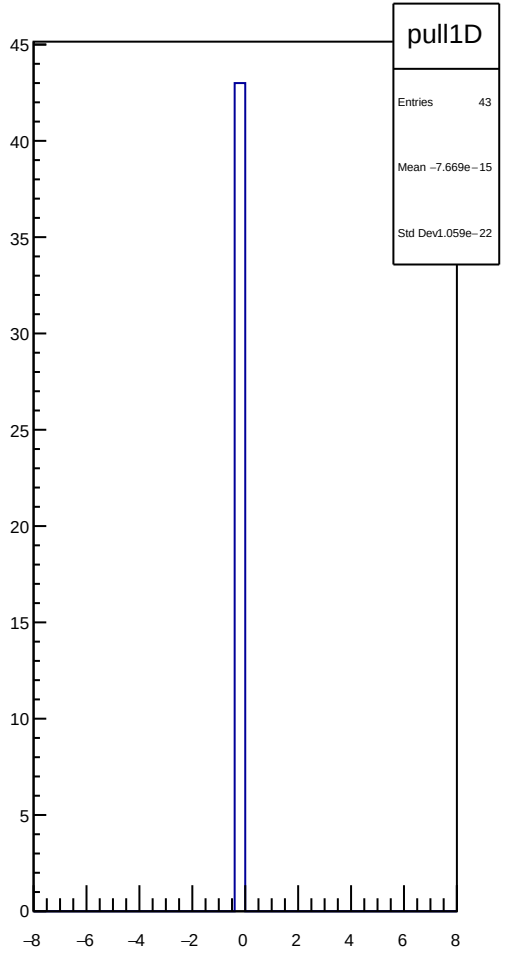

pull1D
Entries 43
Mean 4.945e−15
Std Dev 2.246e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

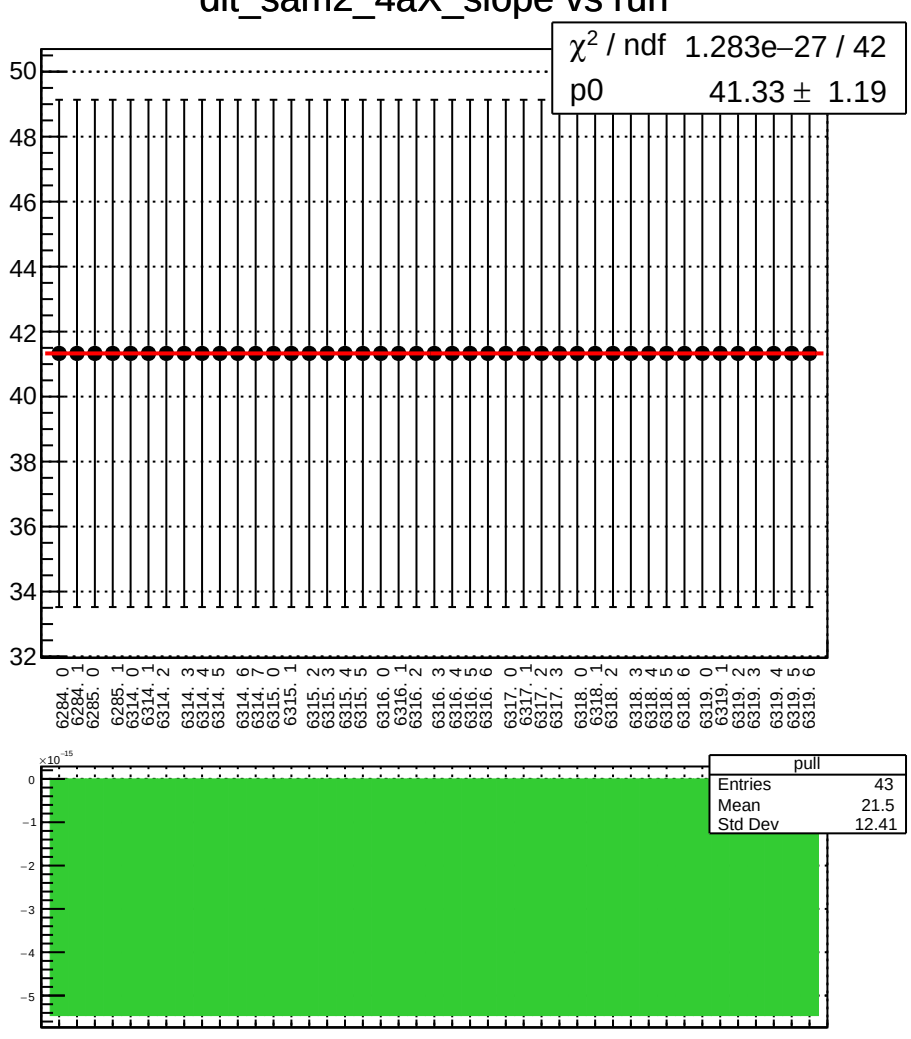

dit_sam1_4eX_slope vs run
χ² / ndf 1.47e−25 / 42
p0 −16.34 ± 0.07413
−15.8
−16
−16.2
−16.4
−16.6
−16.8
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
60
50
40
30
20
10
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 5.847e−14
Std Dev 8.47e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

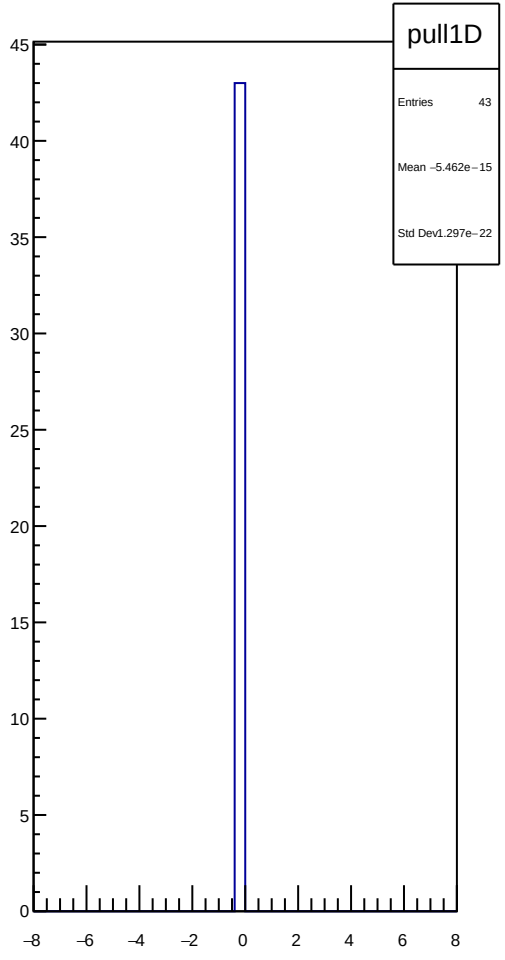

dit_sam1_11X12X_slope vs run
χ² / ndf 2.815e−27 / 42
p0 0.7768 ± 0.01465
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
8
7
6
5
4
3
2
1
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 8.09e−15
Std Dev1.834e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

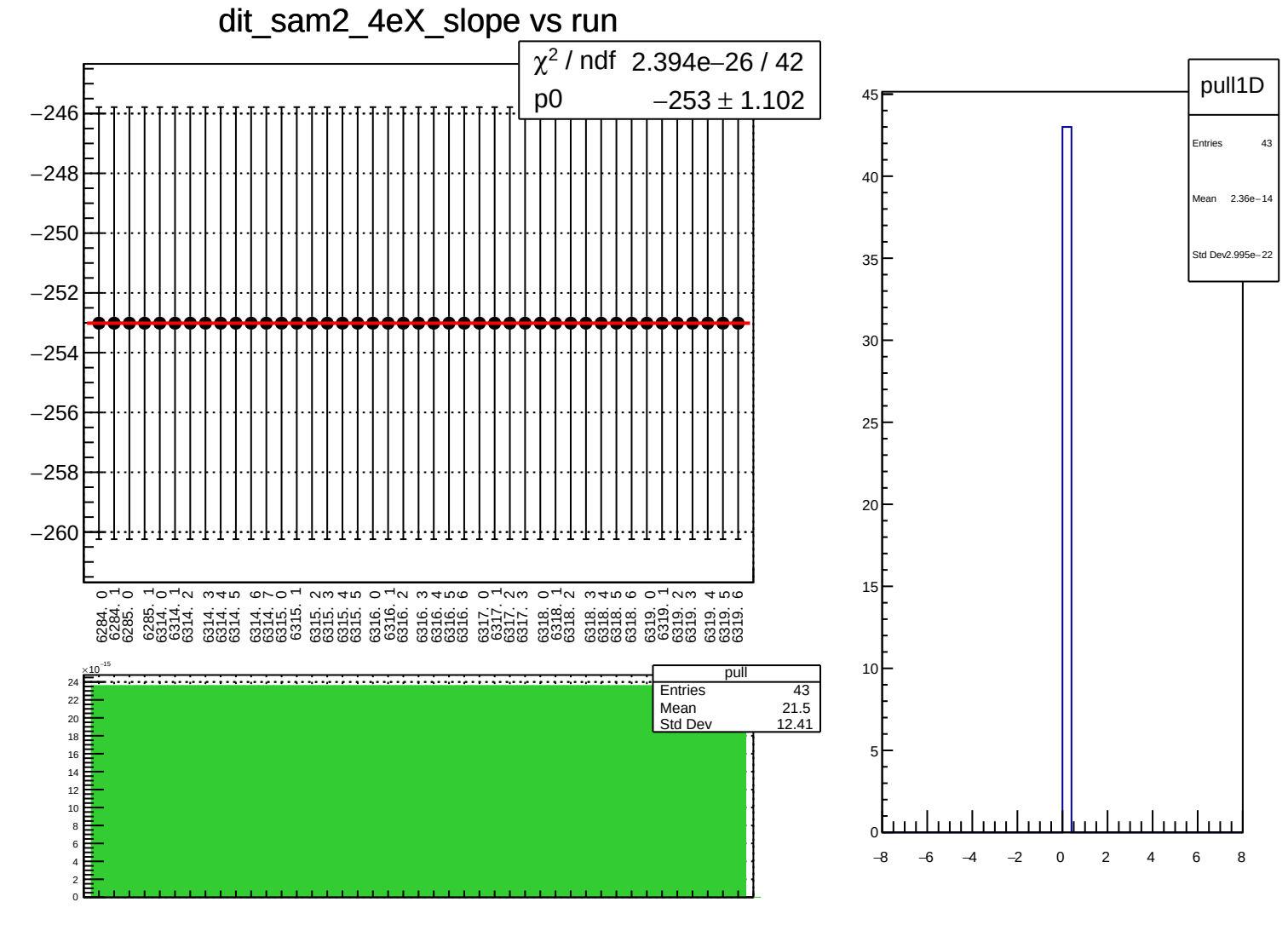

dit_sam1_4aY_slope vs run
χ² / ndf 4.405e−24 / 42
p0 −51.85 ± 0.0237
−51.7
−51.75
−51.8
−51.85
−51.9
−51.95
−52
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −3.201e−13
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

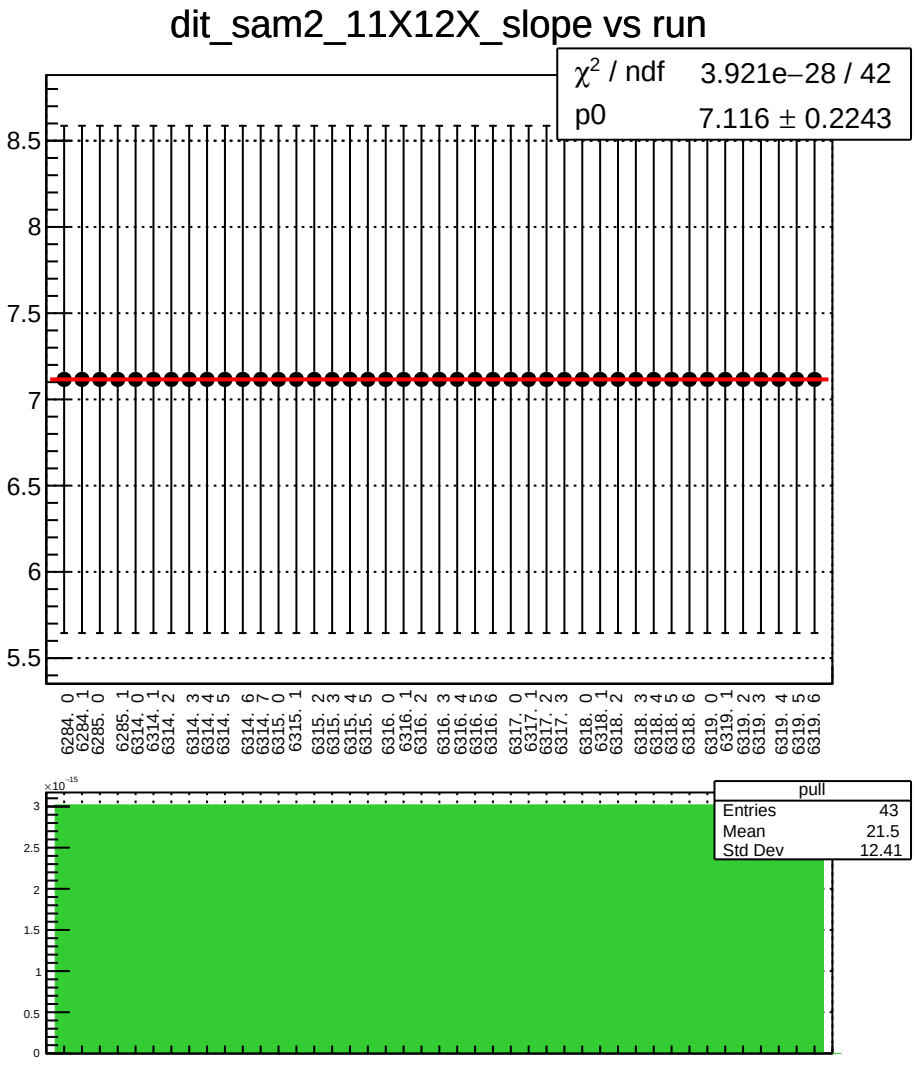

dit_sam1_4eY_slope vs run
χ² / ndf 2.529e−27 / 42
p0 7.426 ± 0.07065
7.8
7.6
7.4
7.2
7
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−1
−2
−3
−4
−5
−6
−7
−8
pull
Entries 43
Mean 21.5
Std Dev 12.41

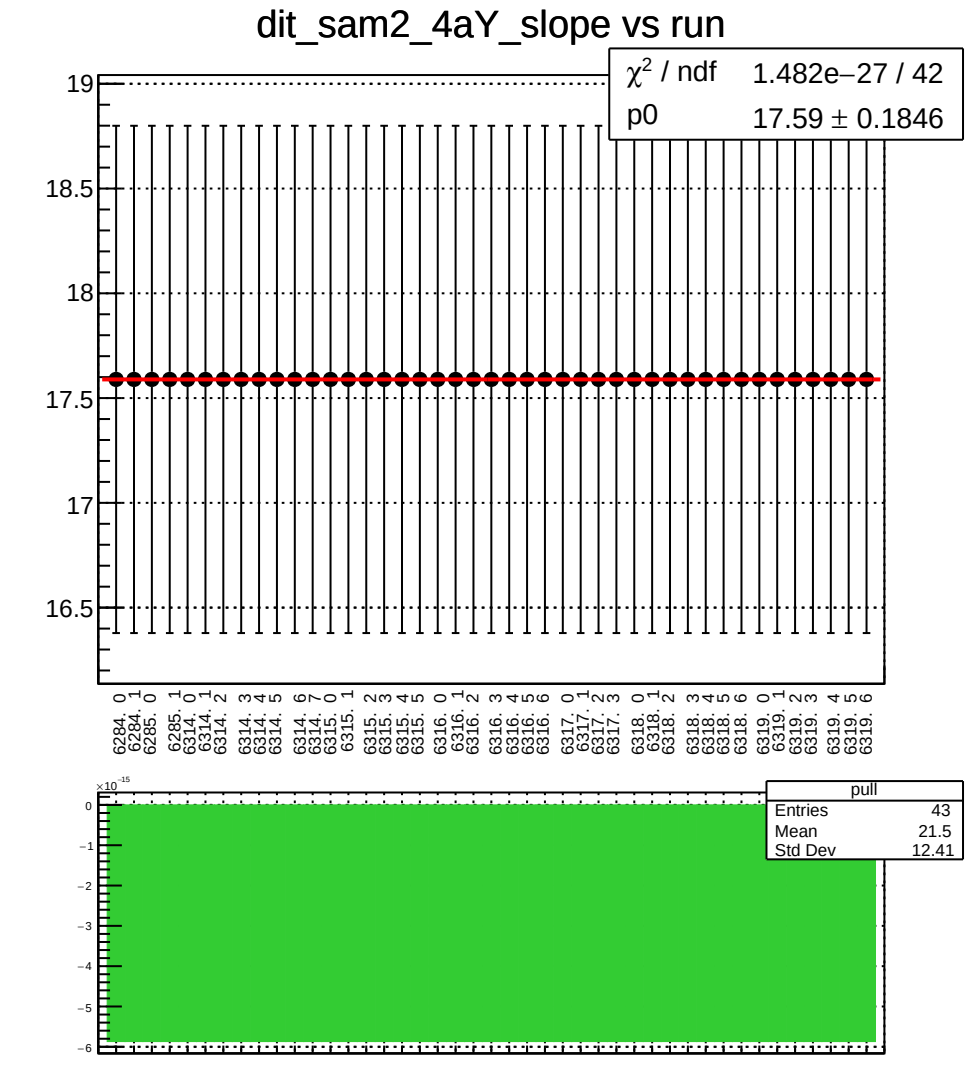

pull1D
Entries 43
Mean −7.669e−15
Std Dev1.059e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

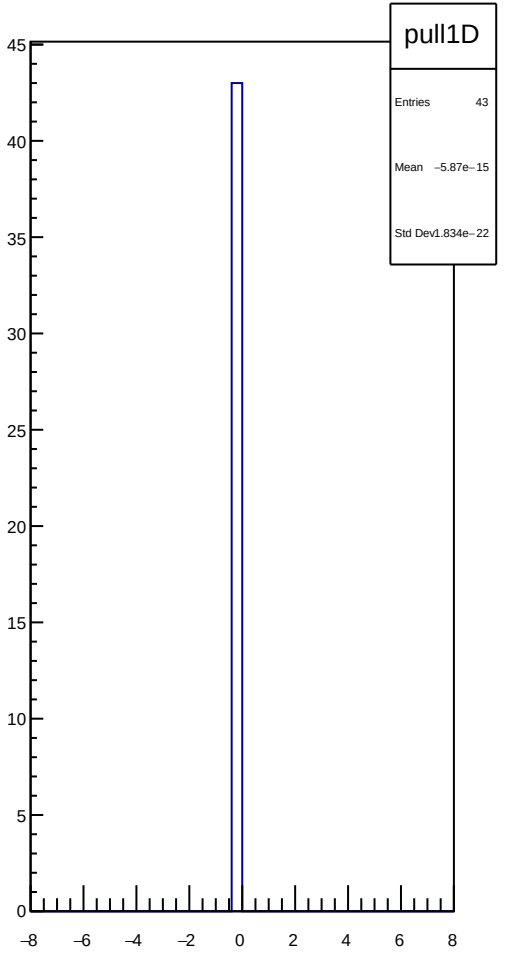

dit_sam2_4aX_slope vs run
χ² / ndf 1.283e−27 / 42
p0 41.33 ± 1.19
50
48
46
44
42
40
38
36
34
32
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 43
Mean 21.5
Std Dev 12.41

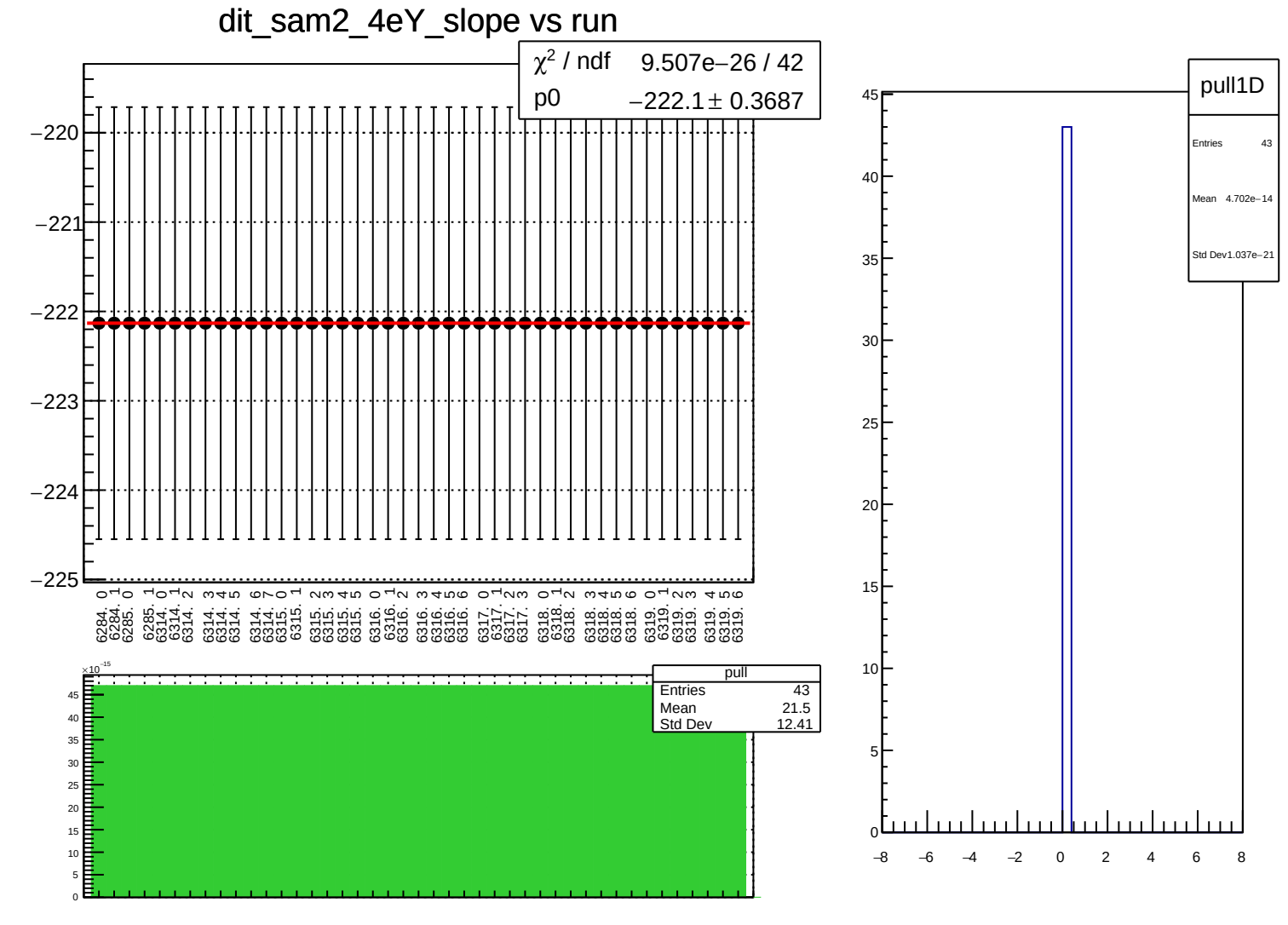

pull1D
Entries 43
Mean −5.462e−15
Std Dev1.297e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

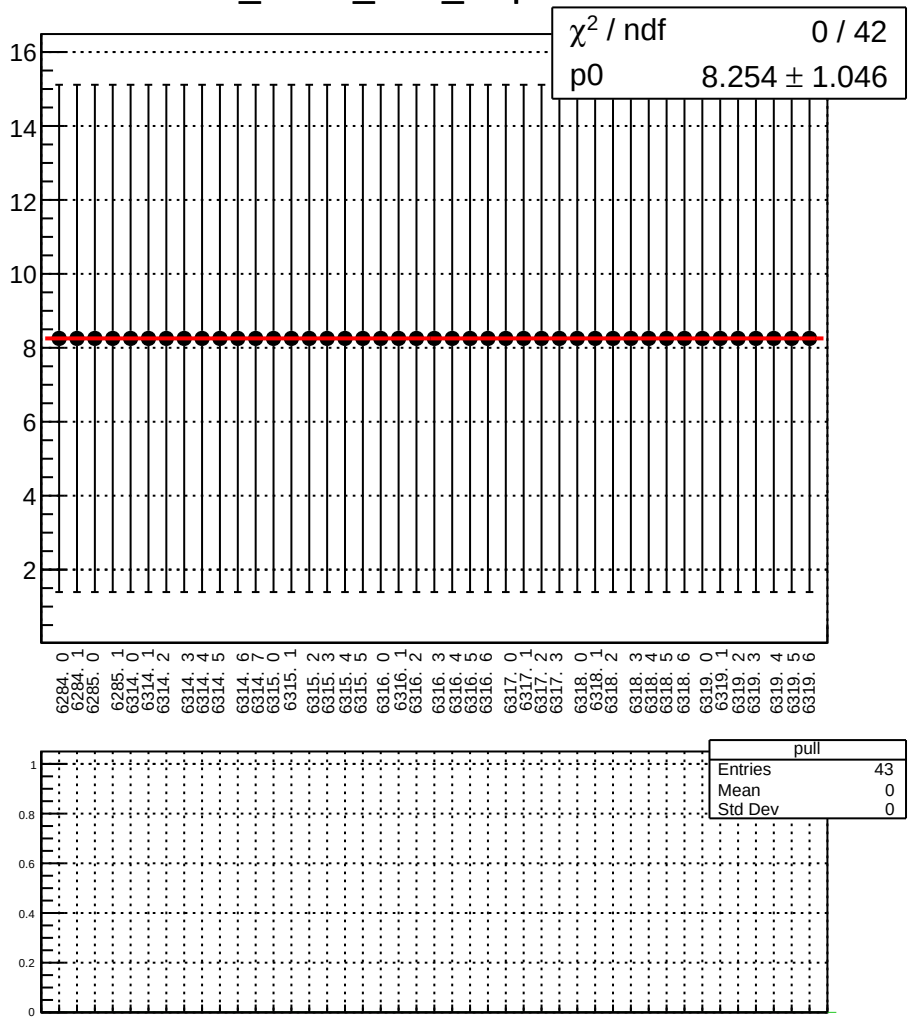

dit_sam2_4eX_slope vs run
χ² / ndf 2.394e−26 / 42
p0 −253 ± 1.102
−246
−248
−250
−252
−254
−256
−258
−260
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
24
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 2.36e−14
Std Dev 2.995e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

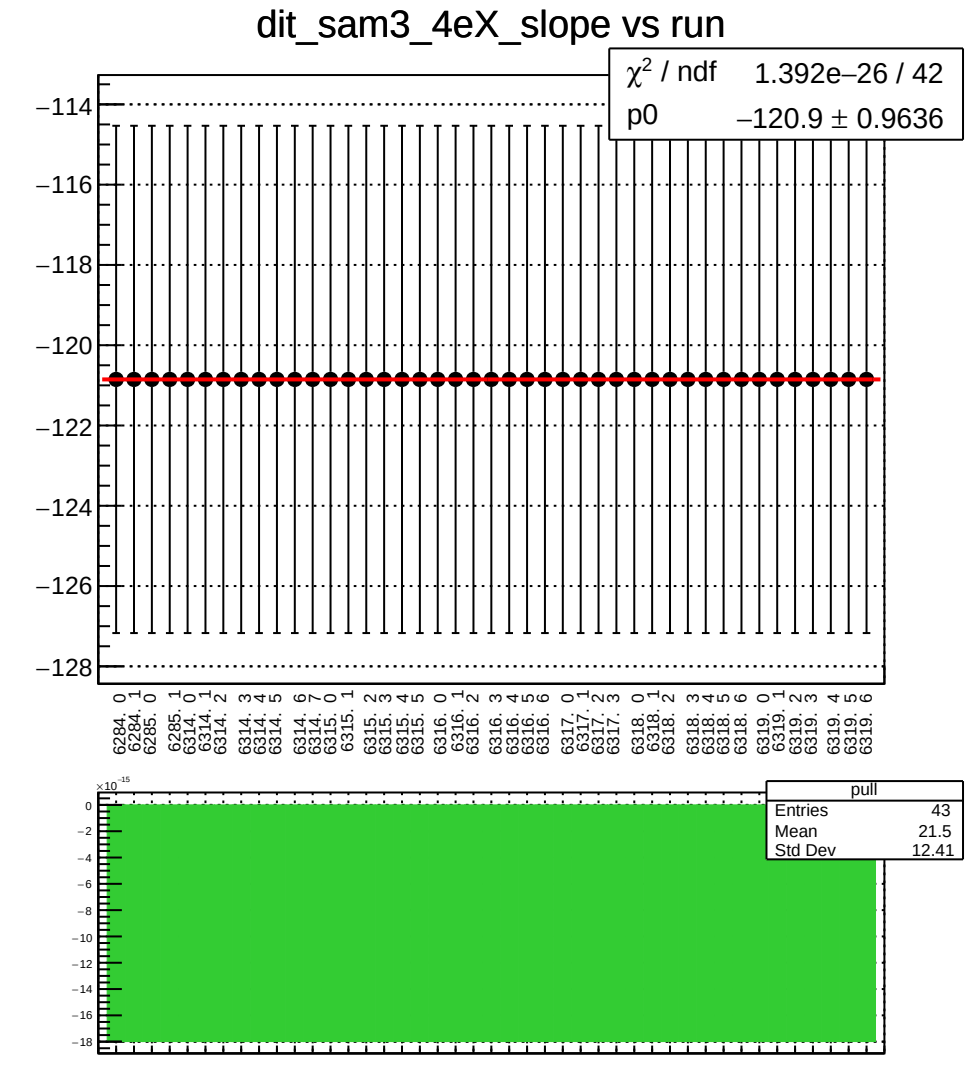

dit_sam2_11X12X_slope vs run
χ² / ndf 3.921e−28 / 42
p0 7.116 ± 0.2243
8.5
8
7.5
7
6.5
6
5.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 3.02e−15
Std Dev 8.37e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

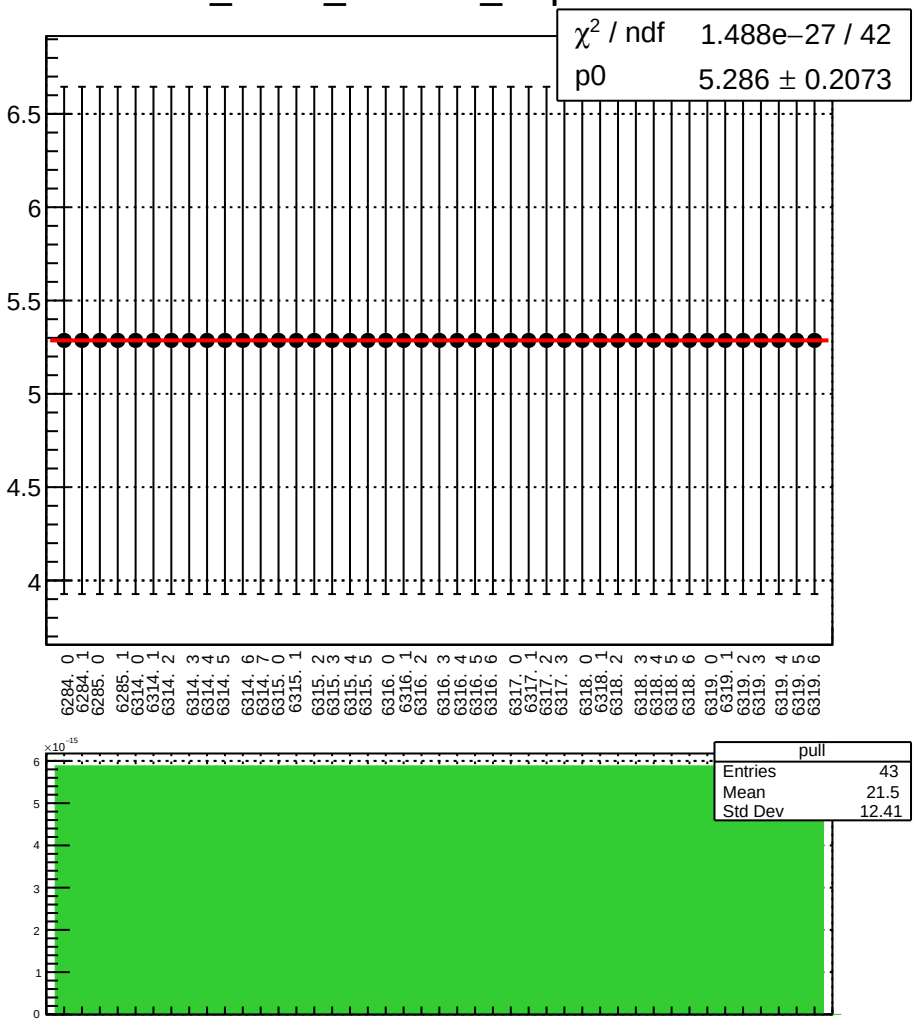

dit_sam2_4aY_slope vs run
χ² / ndf 1.482e−27 / 42
p0 17.59 ± 0.1846
19
18.5
18
17.5
17
16.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 43
Mean 21.5
Std Dev 12.41

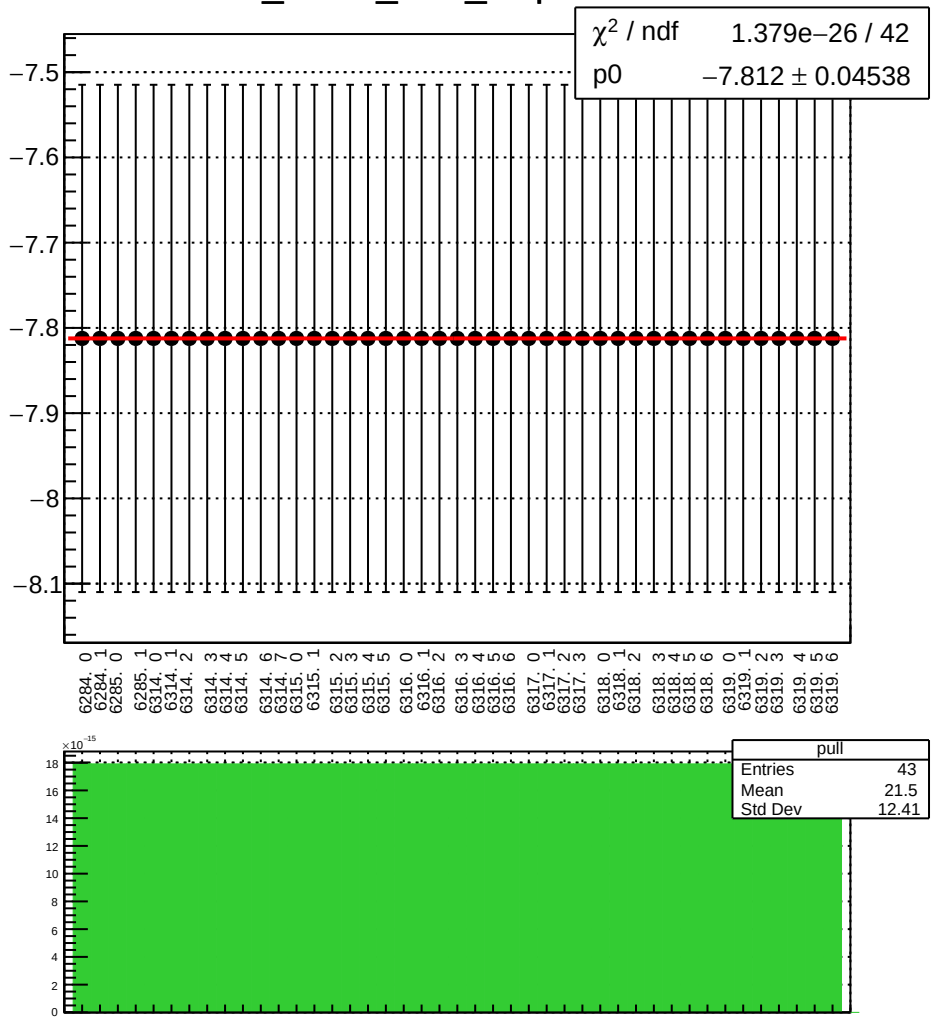

pull1D
Entries 43
Mean −5.87e−15
Std Dev1.834e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

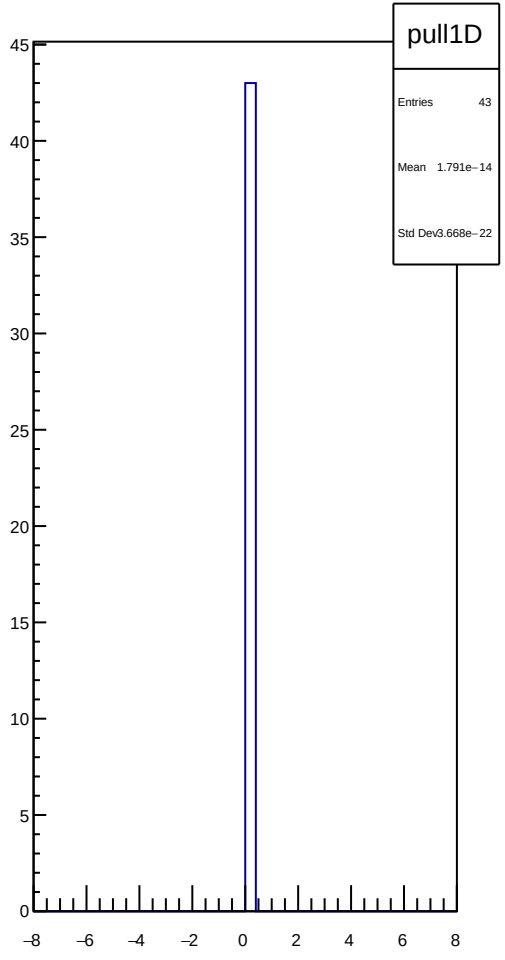

dit_sam2_4eY_slope vs run
χ² / ndf 9.507e−26 / 42
p0 −222.1 ± 0.3687
−220
−221
−222
−223
−224
−225
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 4.702e−14
Std Dev1.037e−21

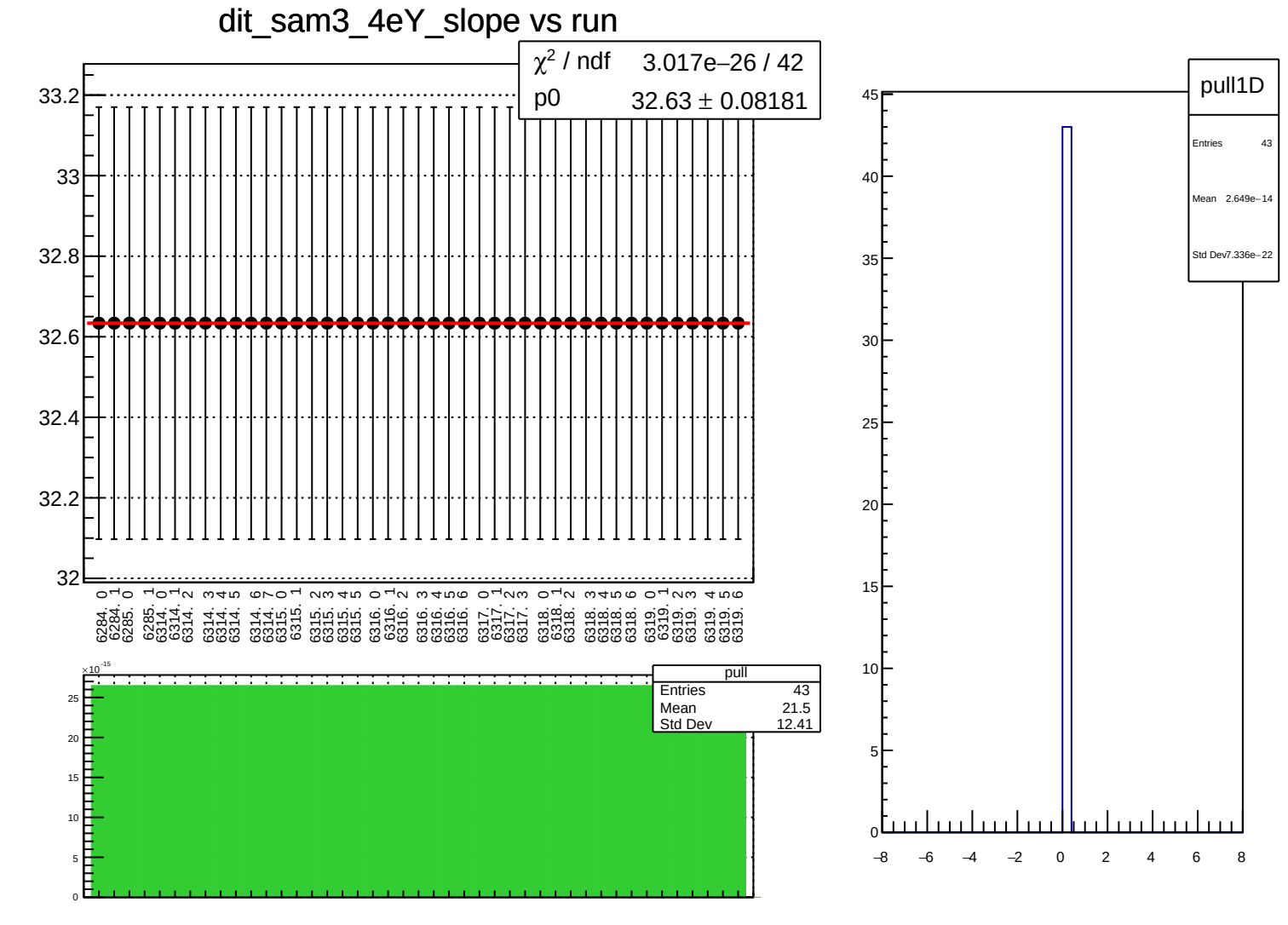

dit_sam3_4aX_slope vs run
χ^2 / ndf 0 / 42
p0 8.254 ± 1.046
16
14
12
10
8
6
4
2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 43
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

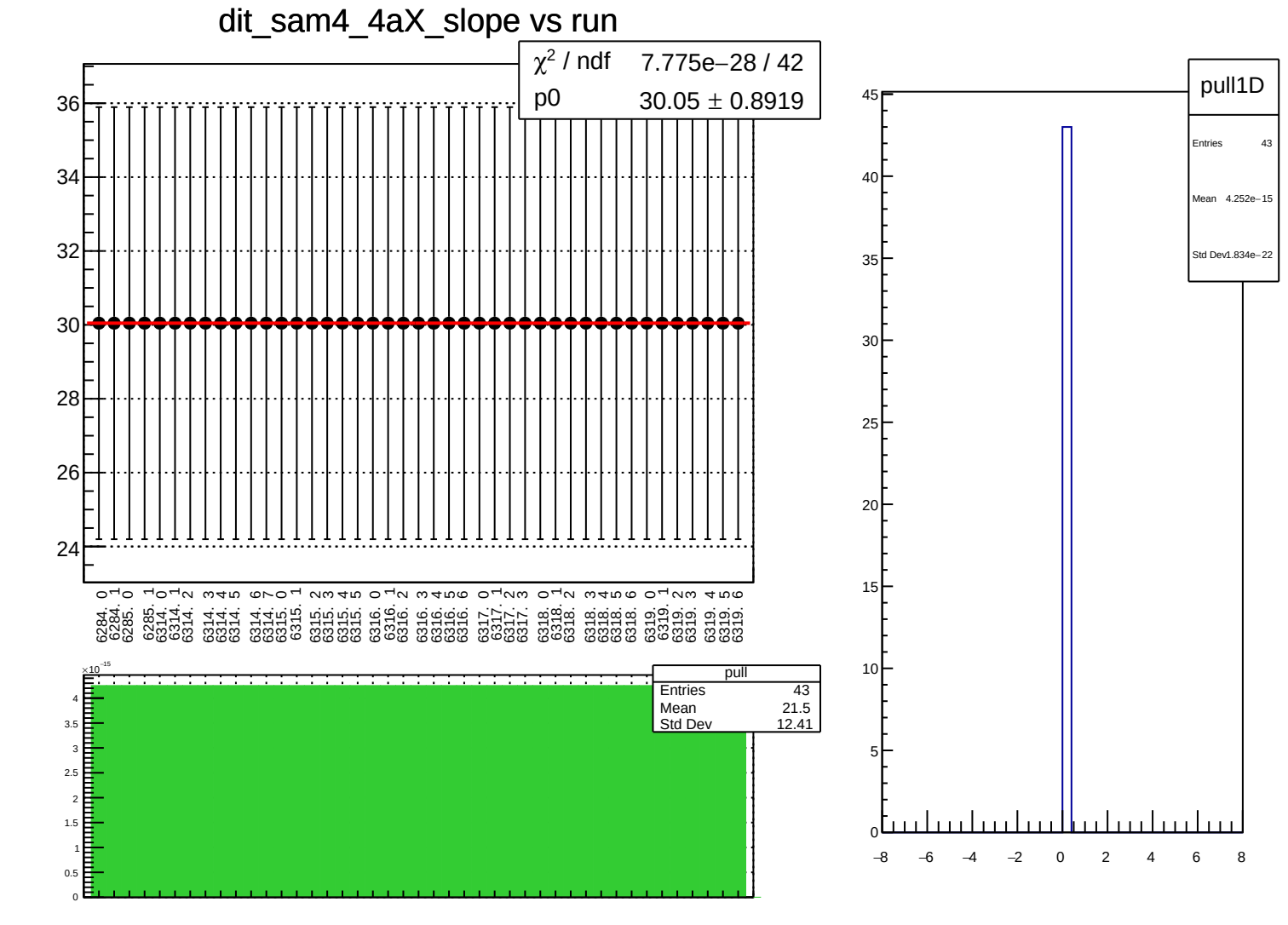

dit_sam3_4eX_slope vs run
χ² / ndf 1.392e−26 / 42
p0 −120.9 ± 0.9636
−114
−116
−118
−120
−122
−124
−126
−128
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −1.799e−14
Std Dev7.023e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

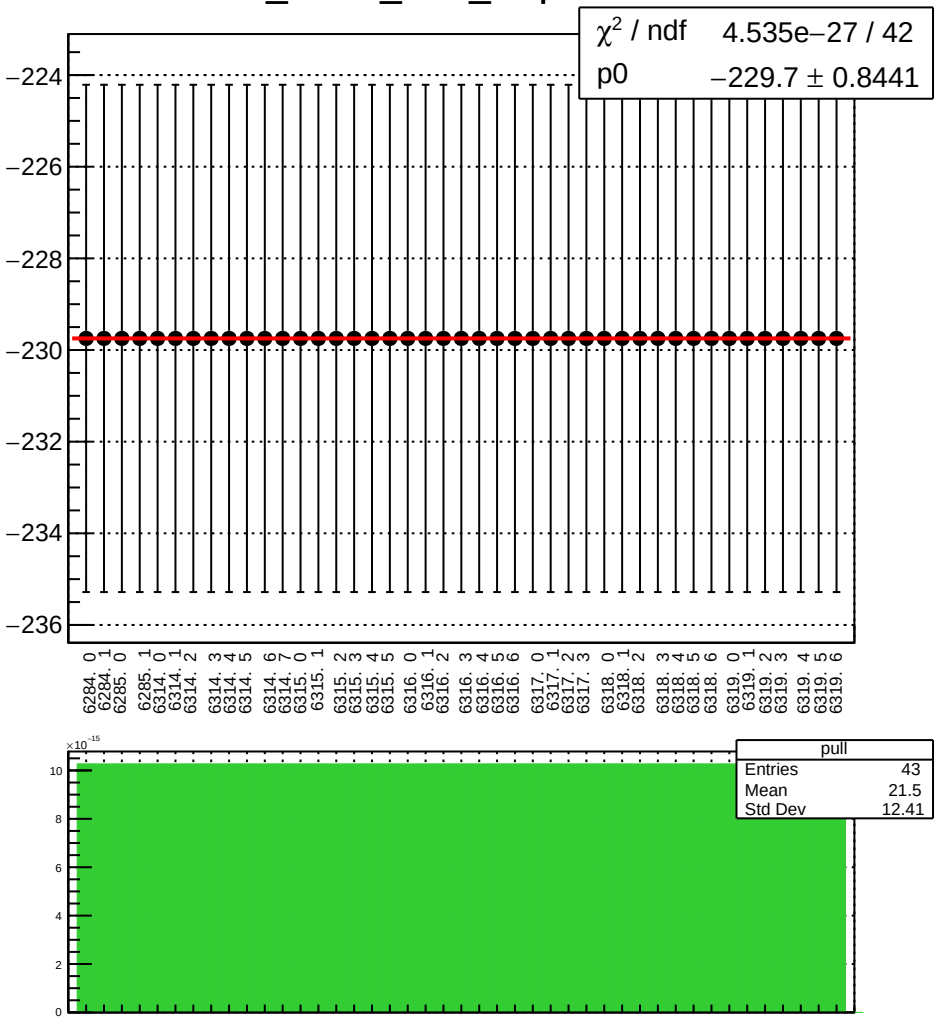

dit_sam3_11X12X_slope vs run
χ² / ndf 1.488e−27 / 42
p0 5.286 ± 0.2073
6.5
6
5.5
5
4.5
4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
6
5
4
3
2
1
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 5.882e−15
Std Dev1.059e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

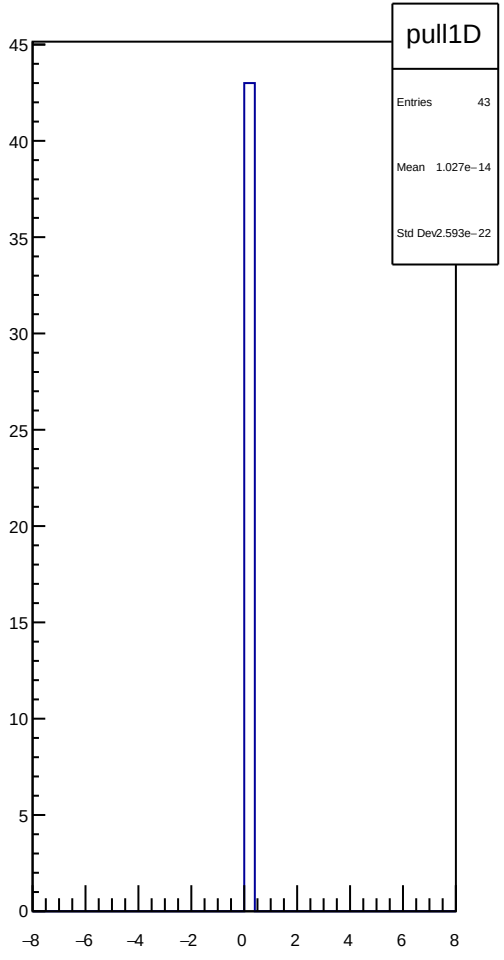

dit_sam3_4aY_slope vs run
χ² / ndf 1.379e−26 / 42
p0 −7.812 ± 0.04538
−7.5
−7.6
−7.7
−7.8
−7.9
−8
−8.1
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
18
16
14
12
10
8
6
4
2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41

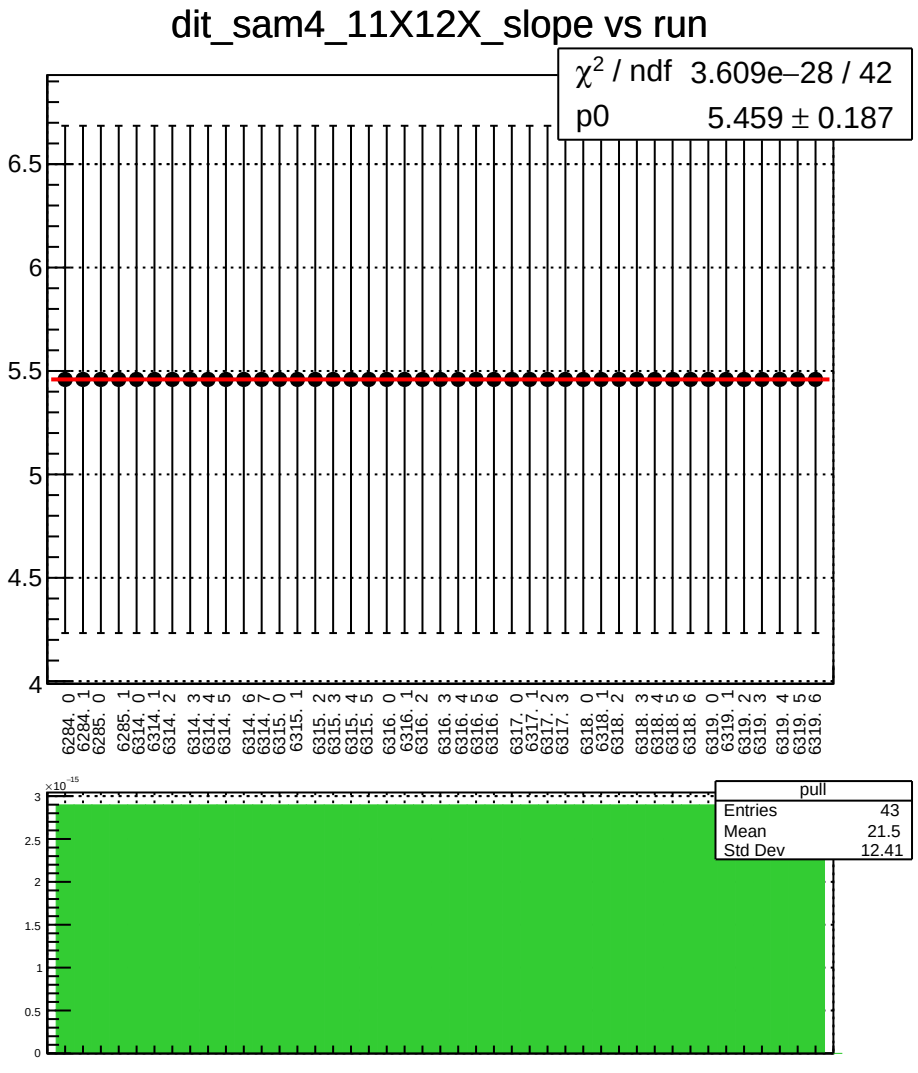

pull1D
Entries 43
Mean 1.791e−14
Std Dev3.668e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

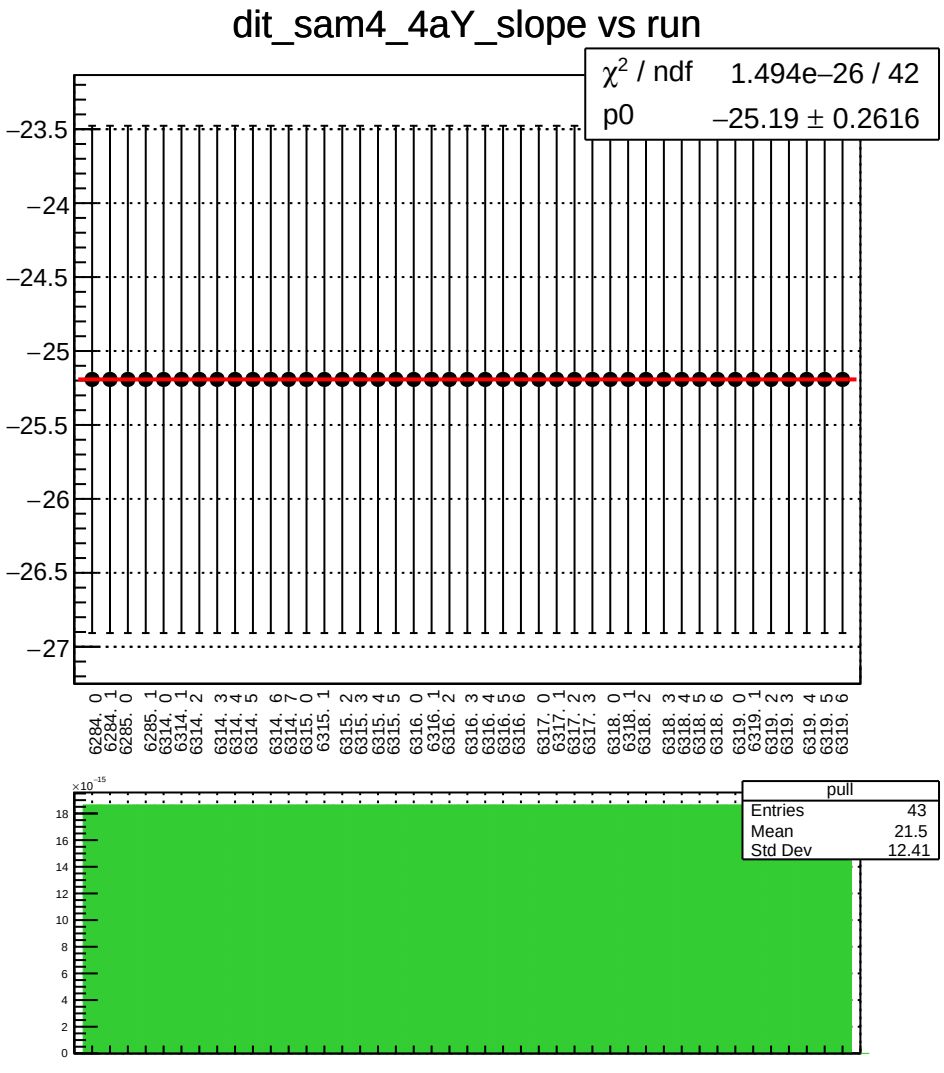

dit_sam3_4eY_slope vs run
χ² / ndf 3.017e−26 / 42
p0 32.63 ± 0.08181
33.2
33
32.8
32.6
32.4
32.2
32
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 2.649e−14
Std Dev7.336e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

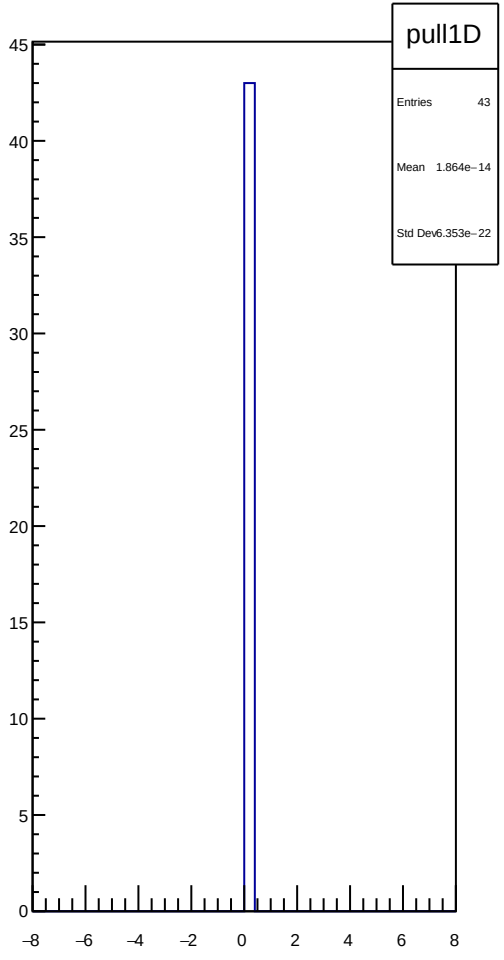

dit_sam4_4aX_slope vs run
χ² / ndf 7.775e−28 / 42
p0 30.05 ± 0.8919
36
34
32
30
28
26
24
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 4.252e−15
Std Dev1.834e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

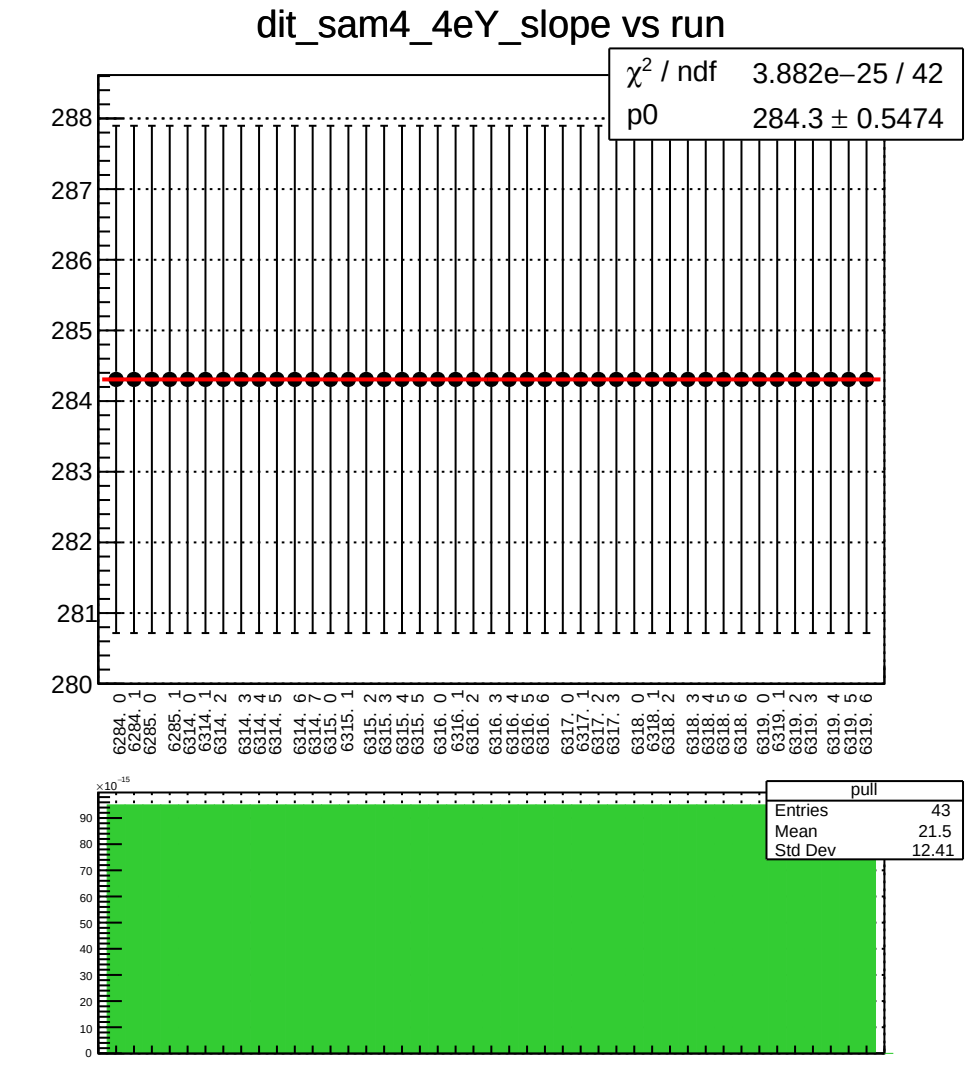

dit_sam4_4eX_slope vs run
χ² / ndf 4.535e−27 / 42
p0 −229.7 ± 0.8441
−224
−226
−228
−230
−232
−234
−236
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41

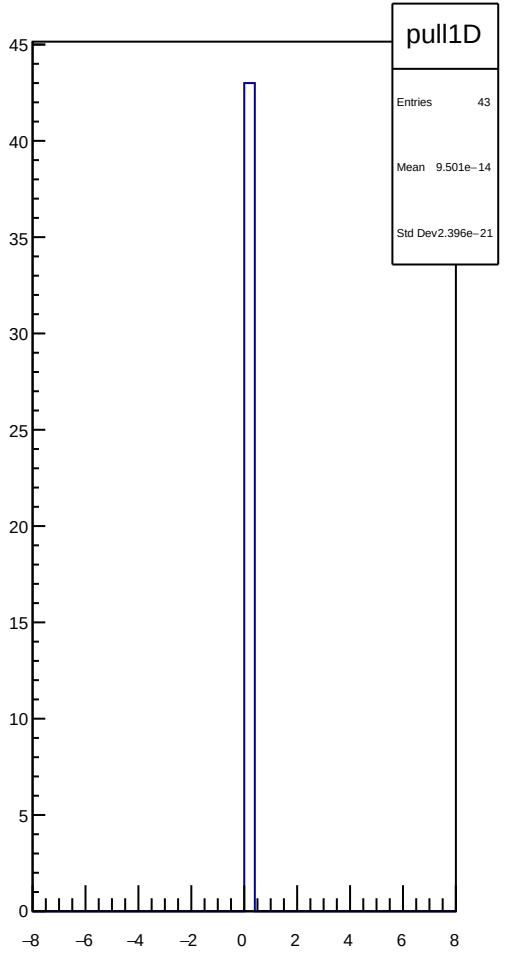

pull1D
Entries 43
Mean 1.027e−14
Std Dev 2.593e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

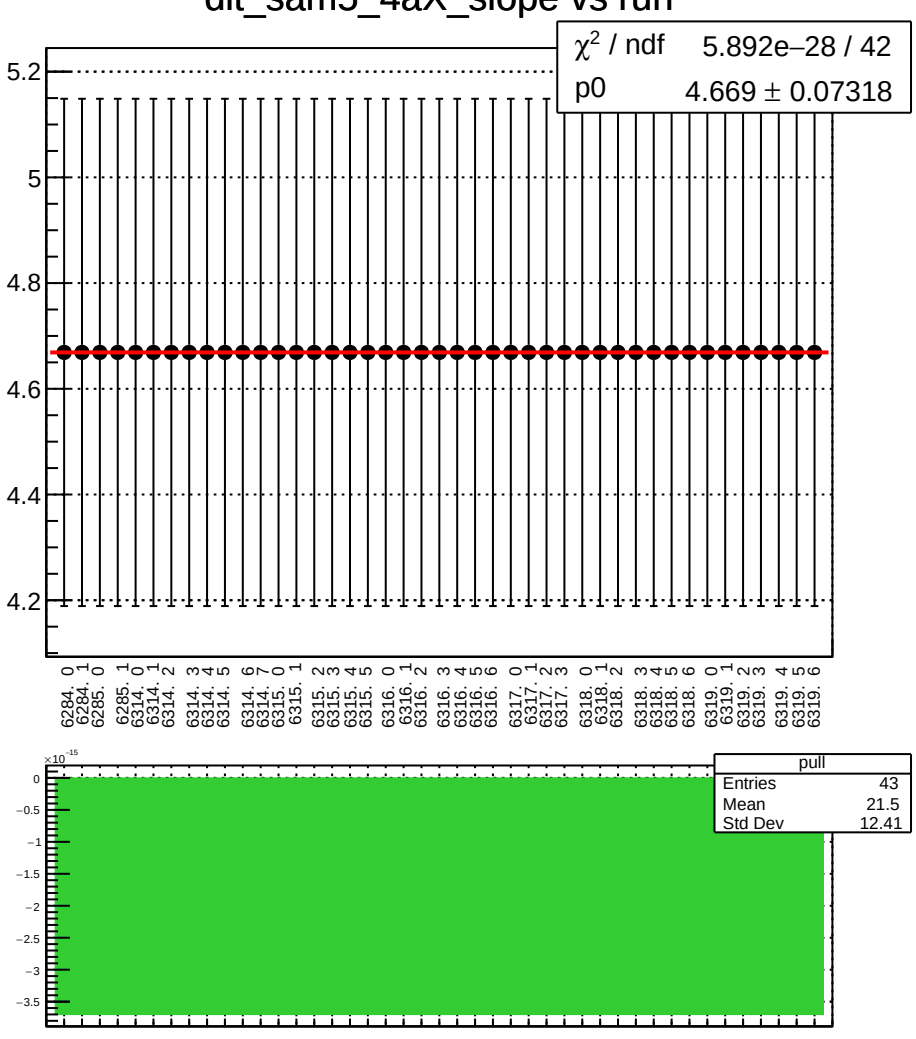

dit_sam4_11X12X_slope vs run
χ² / ndf 3.609e−28 / 42
p0 5.459 ± 0.187
6.5
6
5.5
5
4.5
4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 2.897e−15
Std Dev 3.743e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

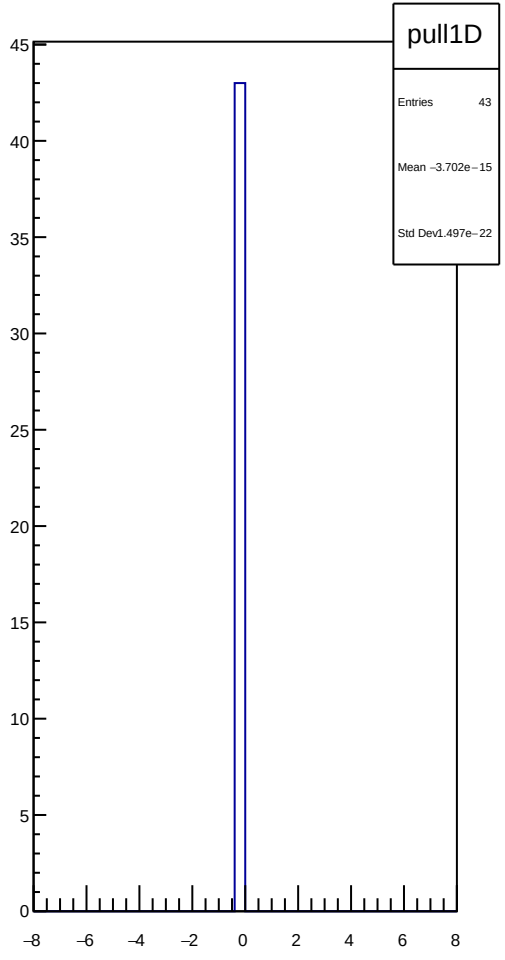

dit_sam4_4aY_slope vs run
χ² / ndf 1.494e−26 / 42
p0 −25.19 ± 0.2616
−23.5
−24
−24.5
−25
−25.5
−26
−26.5
−27
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
18
16
14
12
10
8
6
4
2
0
pull
Entries 43
Mean 21.5
Std Dev 12.41

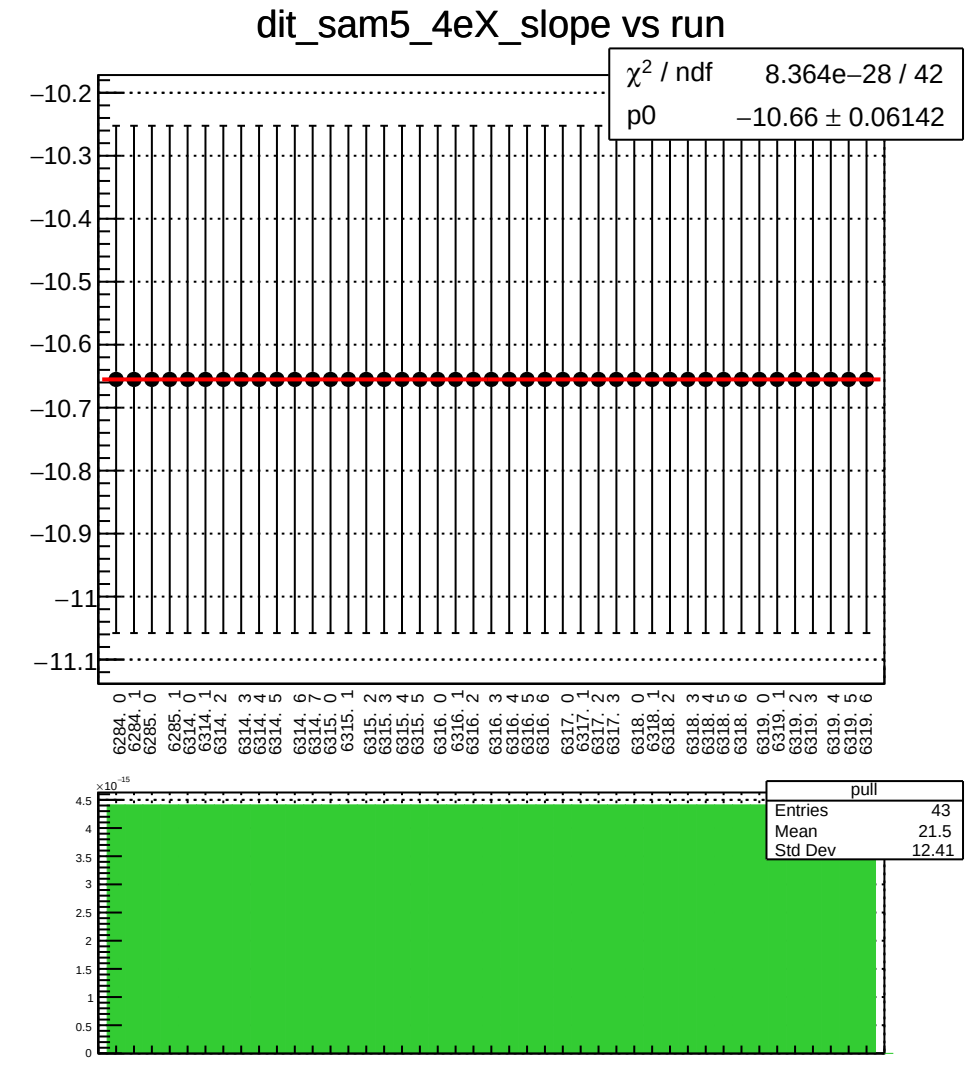

pull1D
Entries 43
Mean 1.864e−14
Std Dev 6.353e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

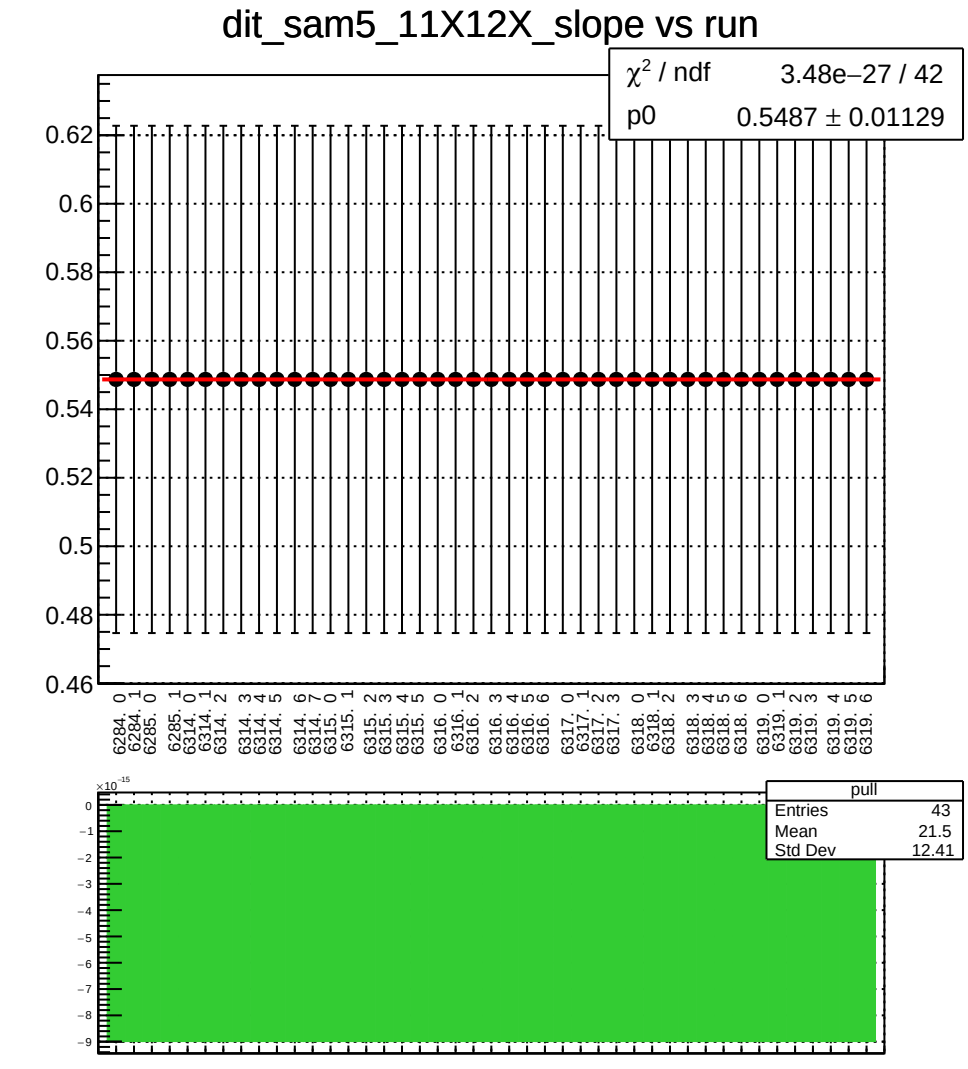

dit_sam4_4eY_slope vs run
χ² / ndf 3.882e−25 / 42
p0 284.3 ± 0.5474
288
287
286
285
284
283
282
281
280
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
90
80
70
60
50
40
30
20
10
0
pull
Entries 43
Mean 21.5
Std Dev 12.41

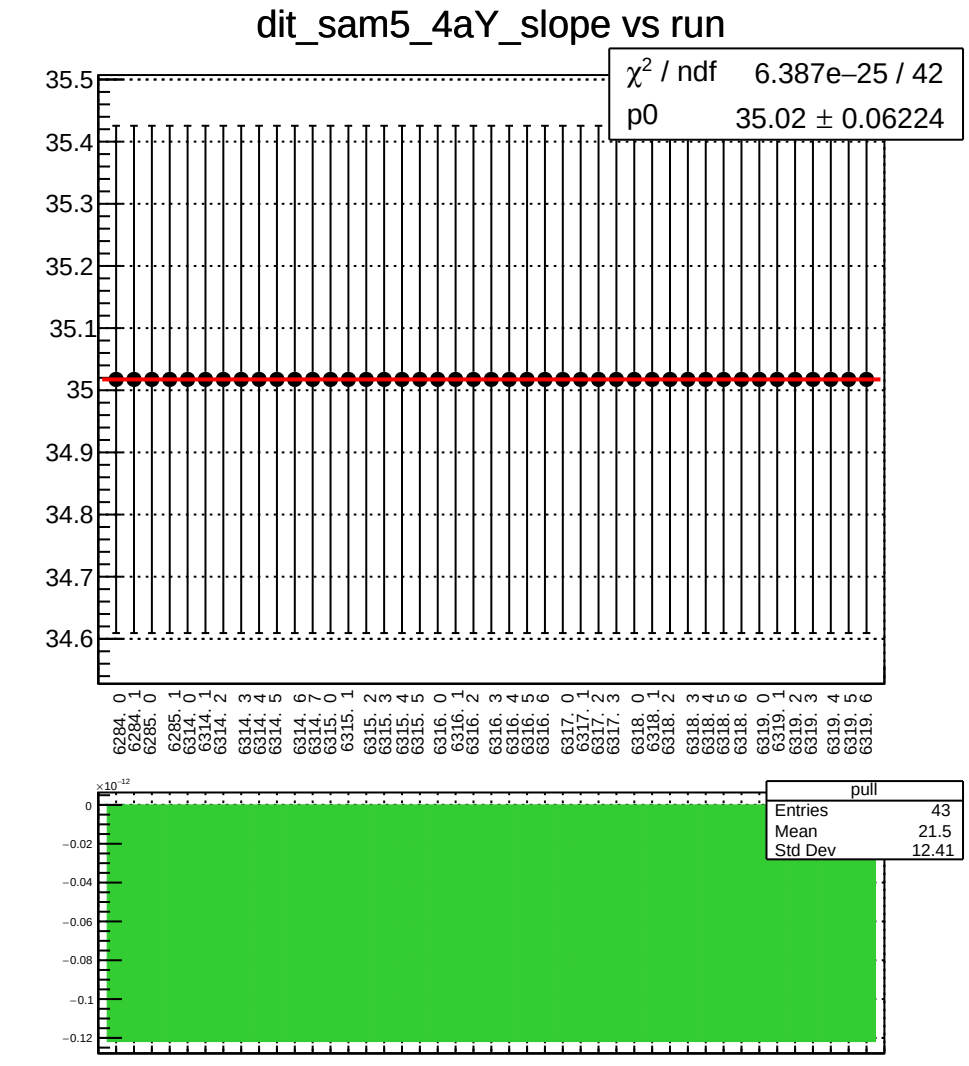

pull1D
Entries 43
Mean 9.501e−14
Std Dev2.396e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

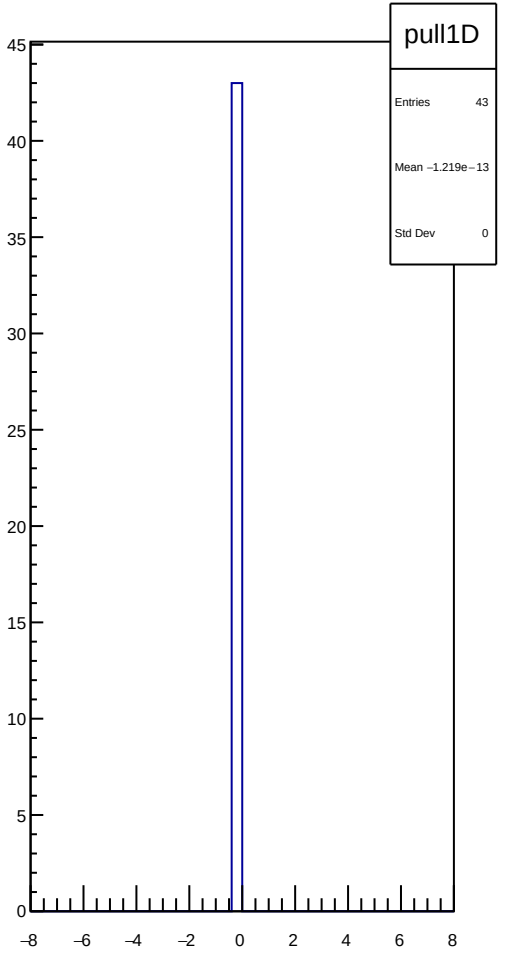

dit_sam5_4aX_slope vs run
χ^2 / ndf 5.892e−28 / 42
p0 4.669 ± 0.07318
5.2
5
4.8
4.6
4.4
4.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 43
Mean 21.5
Std Dev 12.41

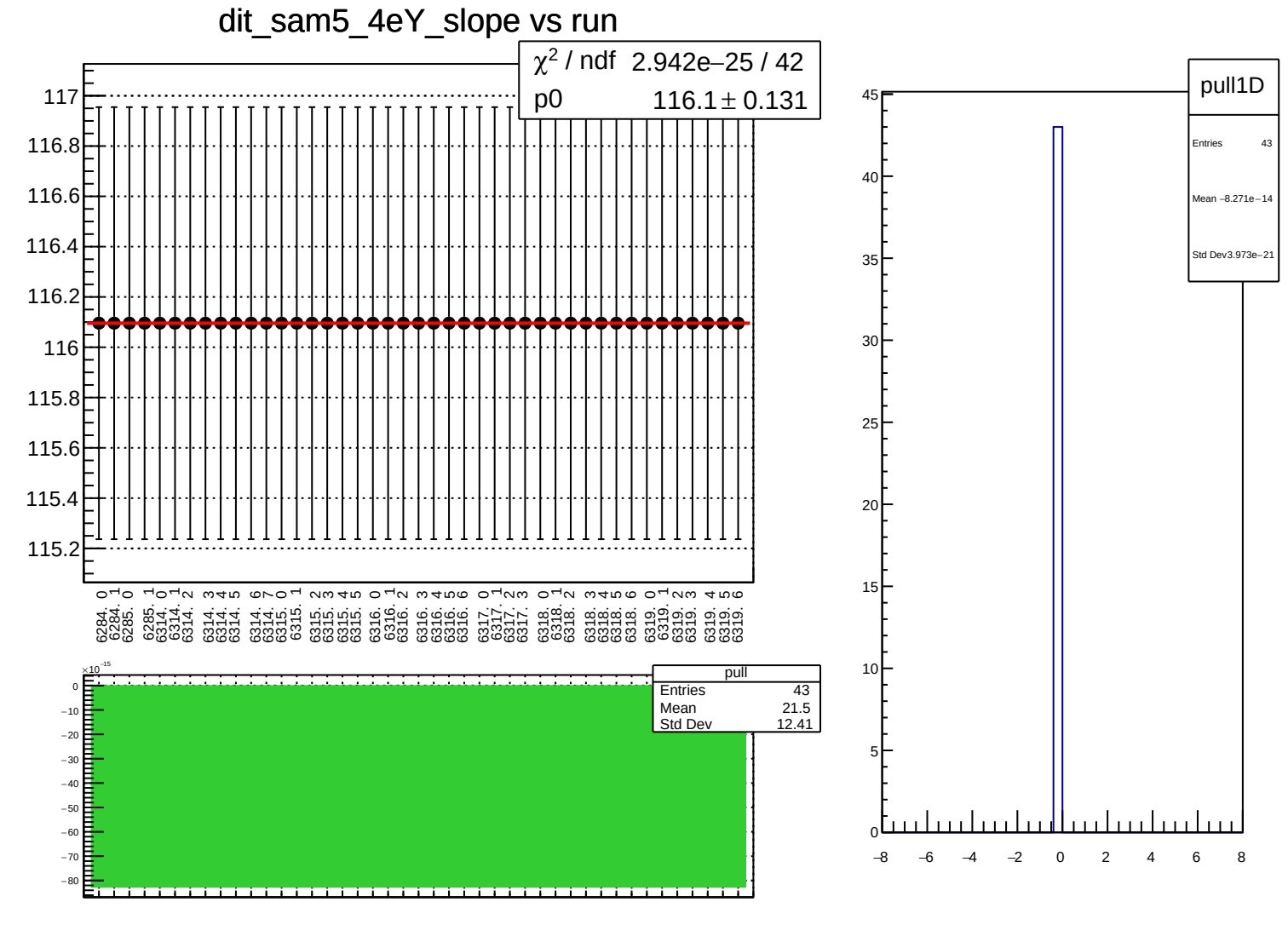

pull1D
Entries 43
Mean −3.702e−15
Std Dev1.497e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

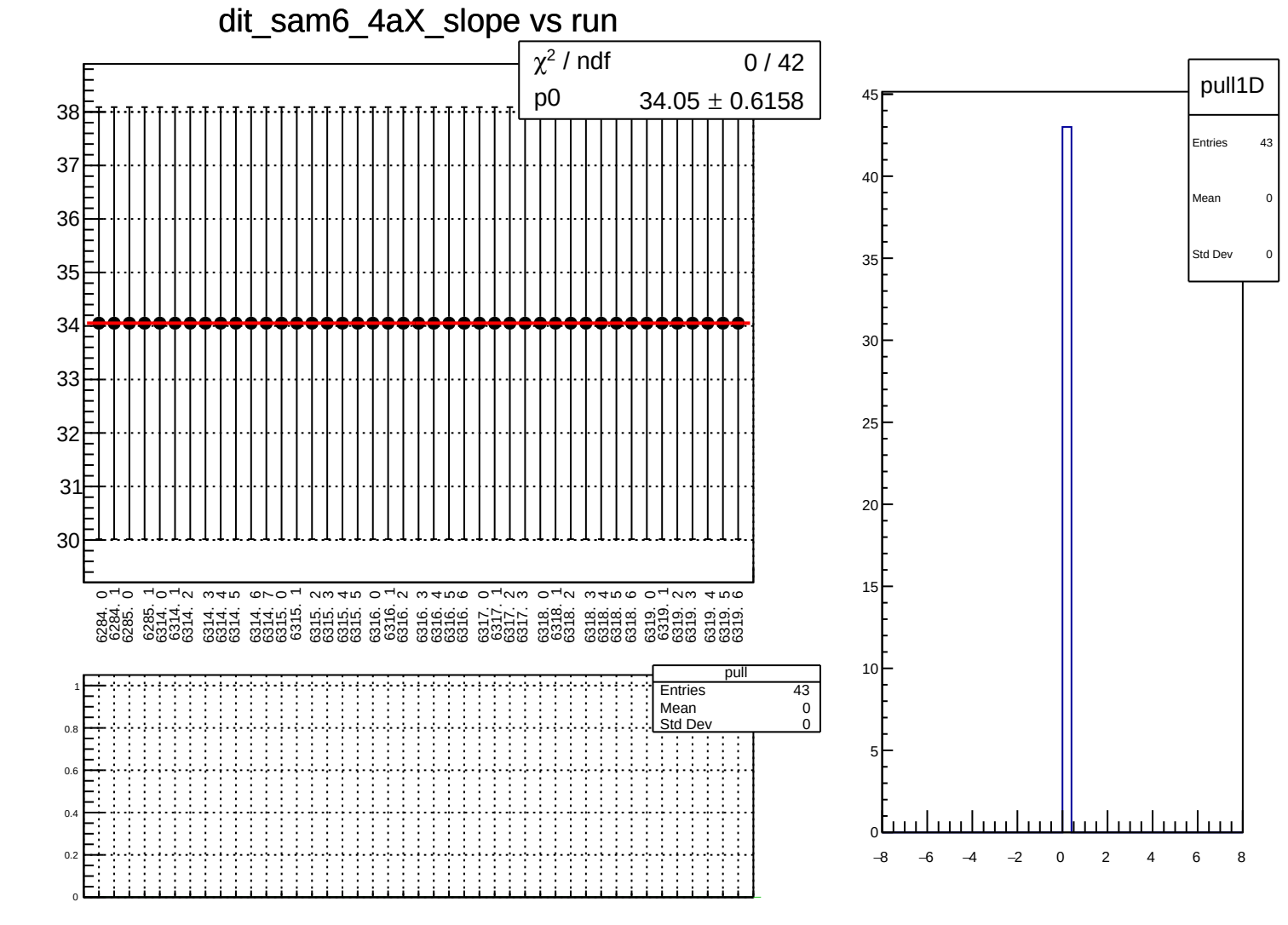

dit_sam5_4eX_slope vs run
χ² / ndf 8.364e−28 / 42
p0 −10.66 ± 0.06142
−10.2
−10.3
−10.4
−10.5
−10.6
−10.7
−10.8
−10.9
−11
−11.1
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 4.41e−15
Std Dev1.059e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

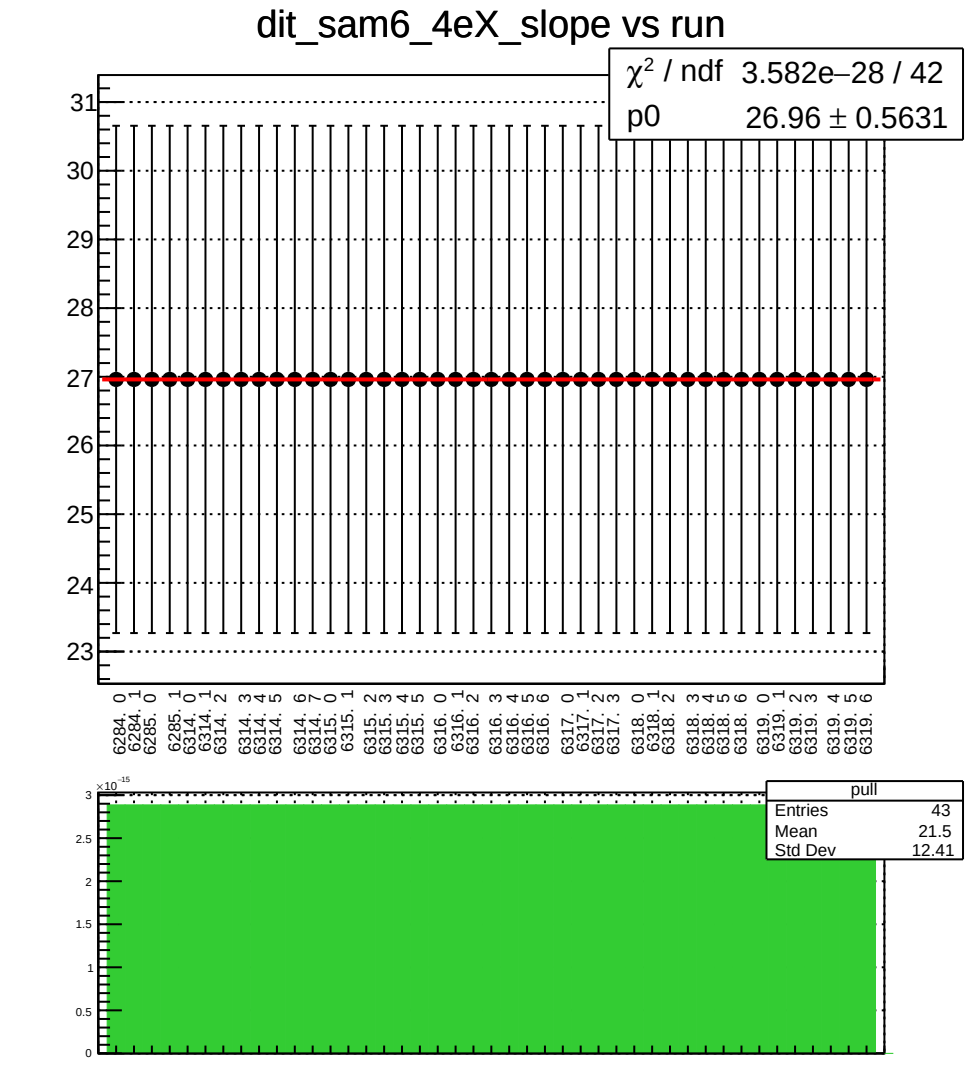

dit_sam5_11X12X_slope vs run
χ² / ndf 3.48e−27 / 42
p0 0.5487 ± 0.01129
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
0.46
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−1
−2
−3
−4
−5
−6
−7
−8
−9
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −8.996e−15
Std Dev4.735e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

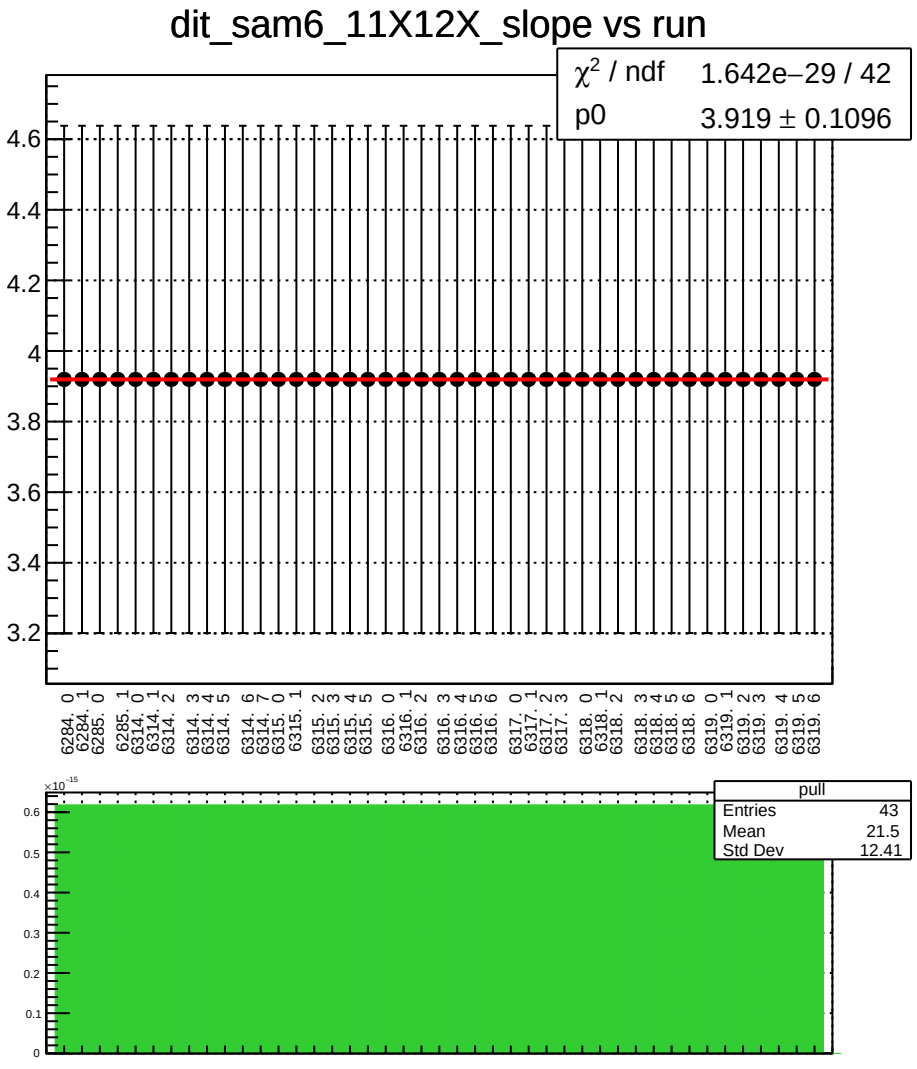

dit_sam5_4aY_slope vs run
χ² / ndf 6.387e−25 / 42
p0 35.02 ± 0.06224
35.5
35.4
35.3
35.2
35.1
35
34.9
34.8
34.7
34.6
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 43
Mean 21.5
Std Dev 12.41

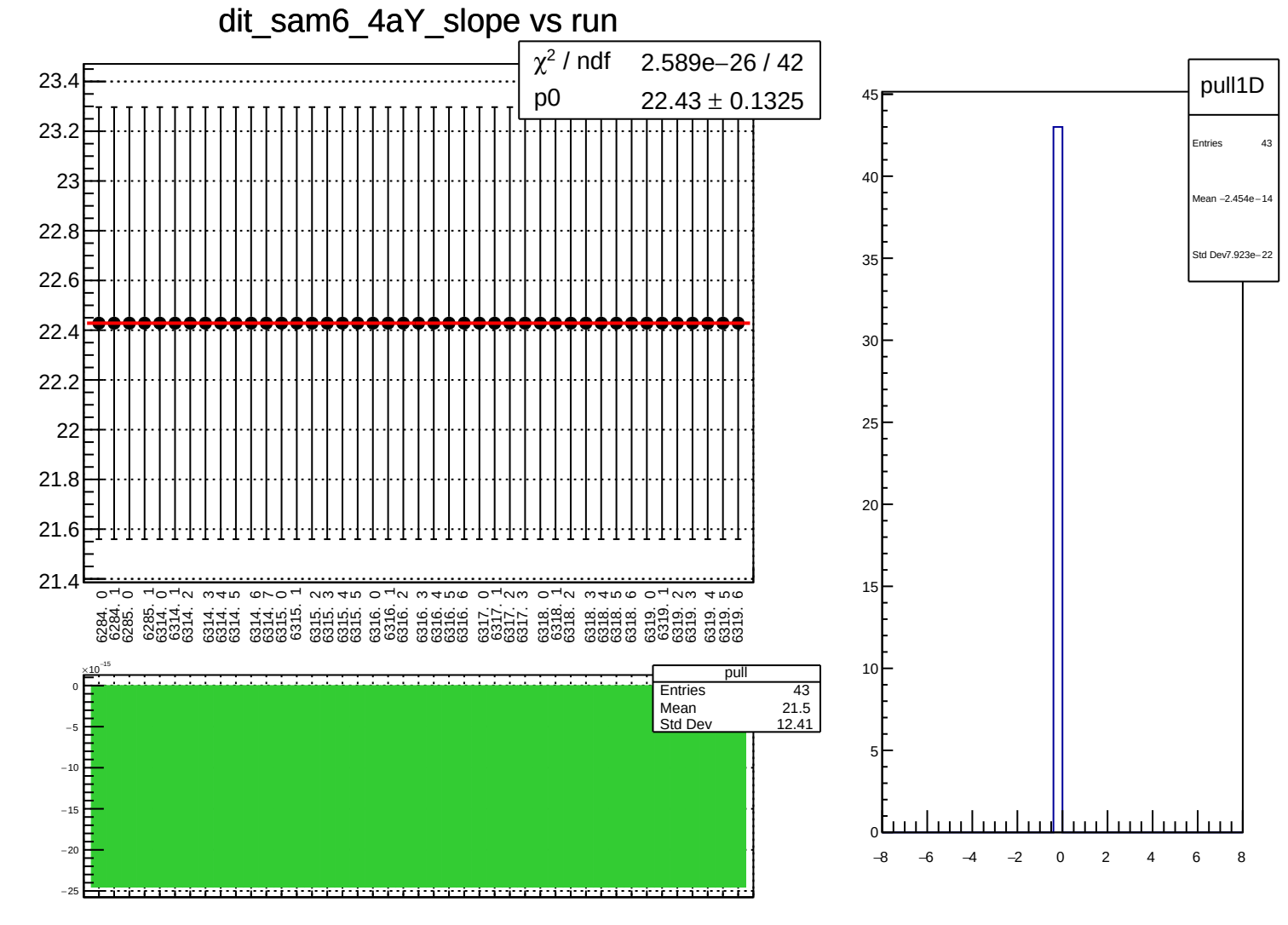

pull1D
Entries 43
Mean −1.219e−13
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

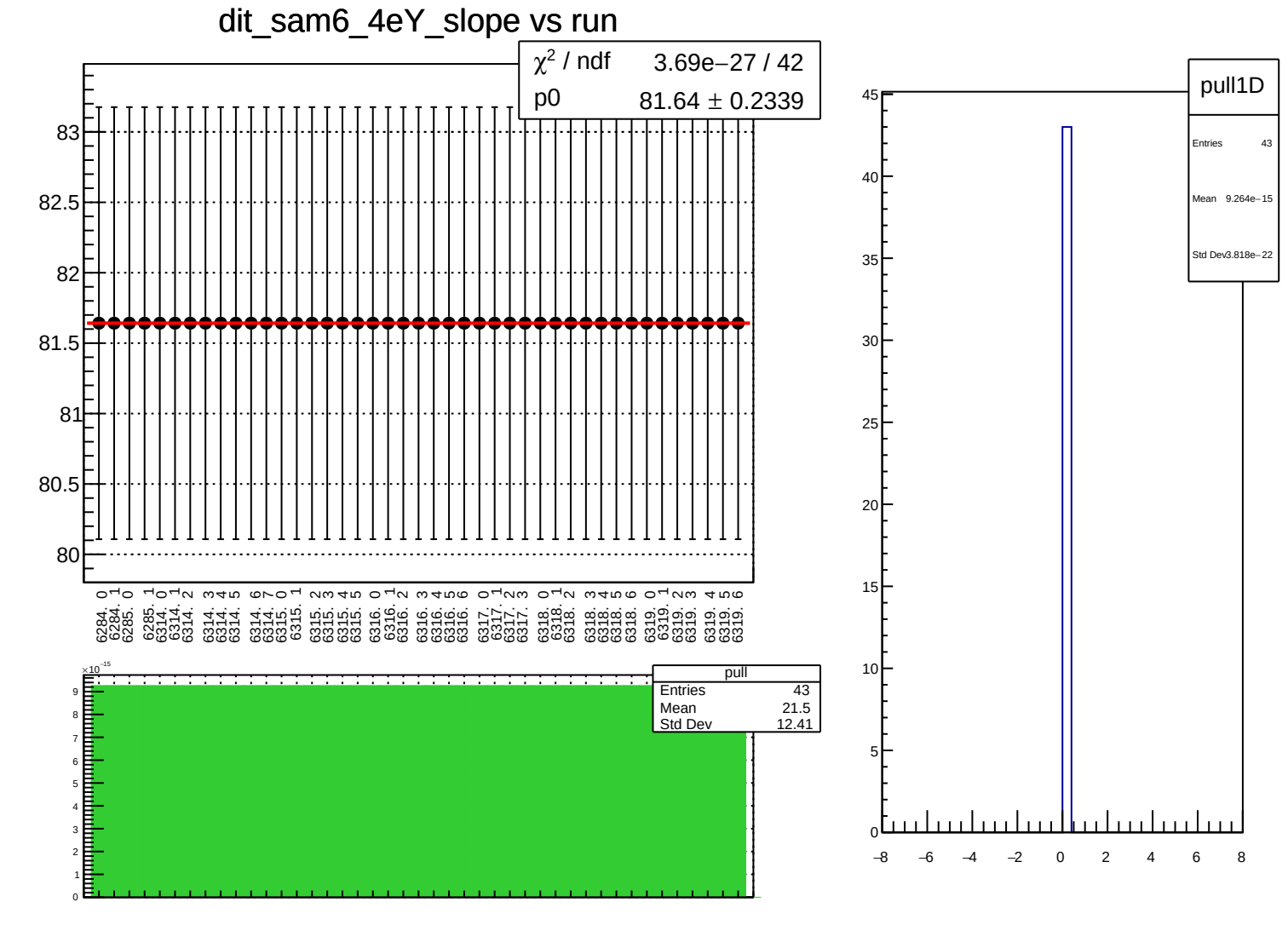

dit_sam5_4eY_slope vs run
χ² / ndf 2.942e−25 / 42
p0 116.1 ± 0.131
117
116.8
116.6
116.4
116.2
116
115.8
115.6
115.4
115.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 21.5
Std Dev 12.41
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 43
Mean −8.271e−14
Std Dev3.973e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

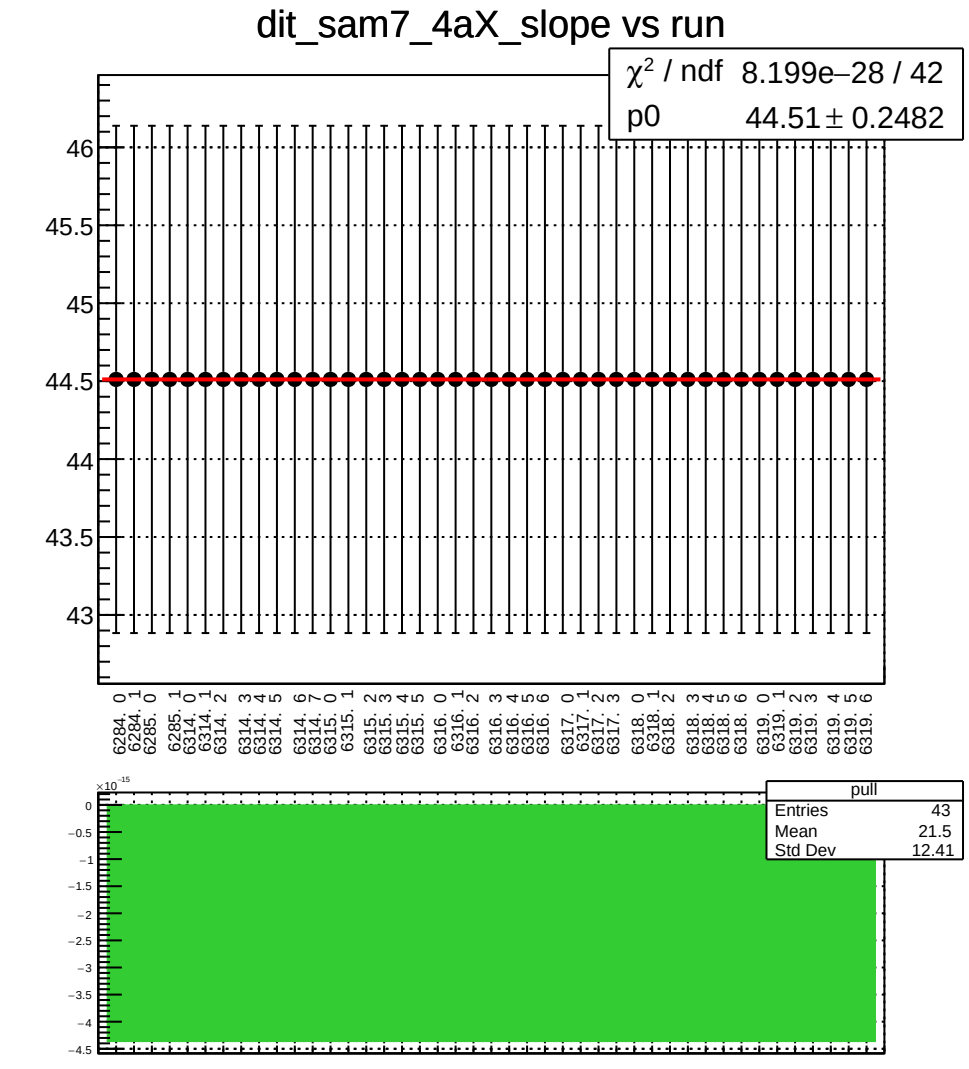

dit_sam6_4aX_slope vs run
χ² / ndf 0 / 42
p0 34.05 ± 0.6158
38
37
36
35
34
33
32
31
30
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 43
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

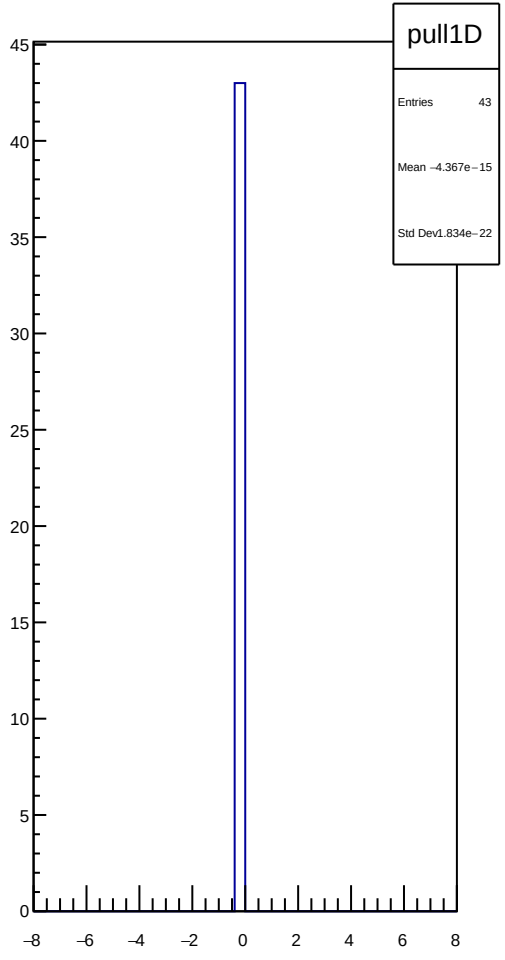

dit_sam6_4eX_slope vs run
χ² / ndf 3.582e−28 / 42
p0 26.96 ± 0.5631
31
30
29
28
27
26
25
24
23
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 2.886e−15
Std Dev 6.484e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

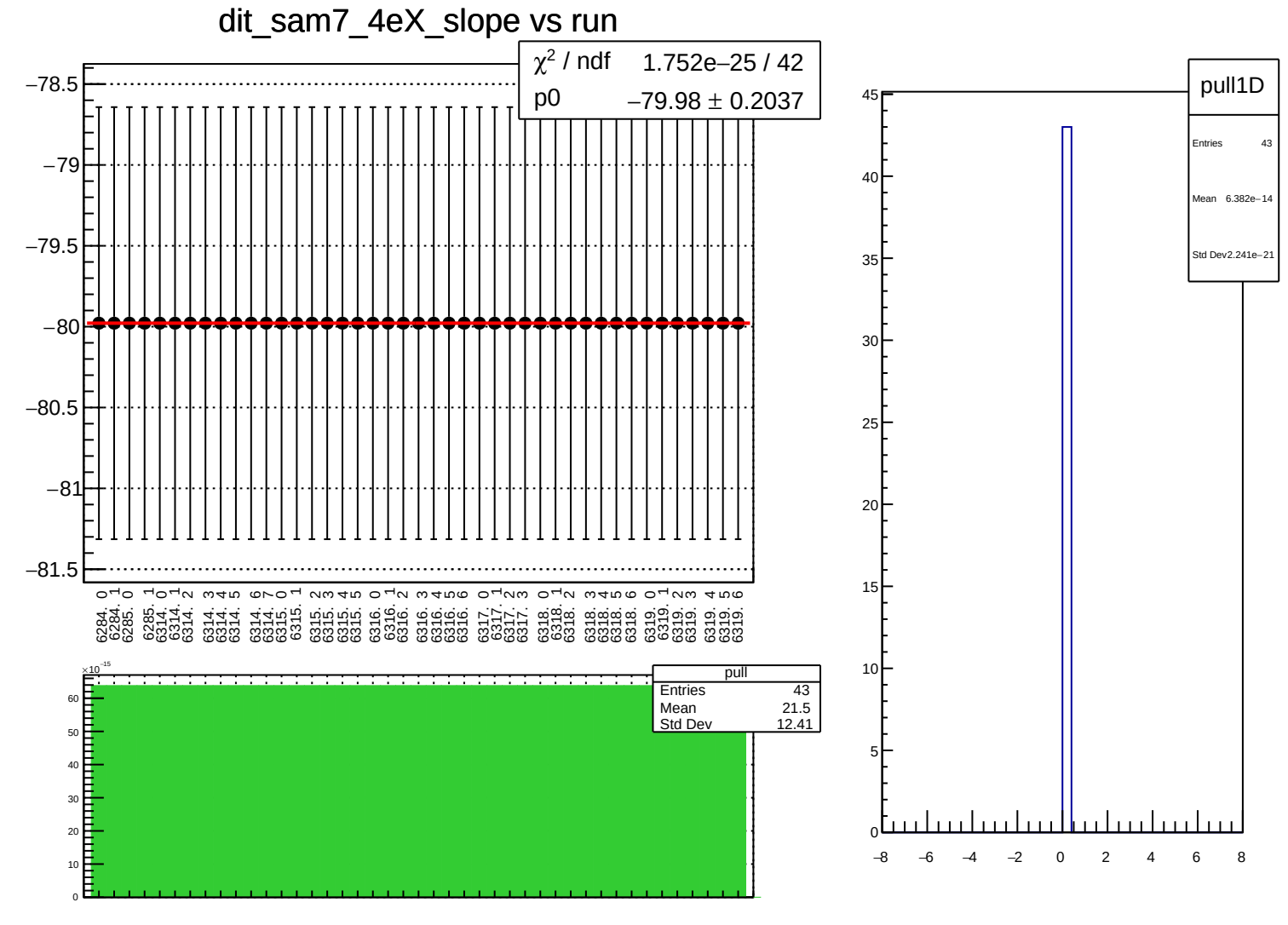

dit_sam6_11X12X_slope vs run
χ^2 / ndf 1.642e−29 / 42
p0 3.919 ± 0.1096
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 6.18e−16
Std Dev 2.647e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

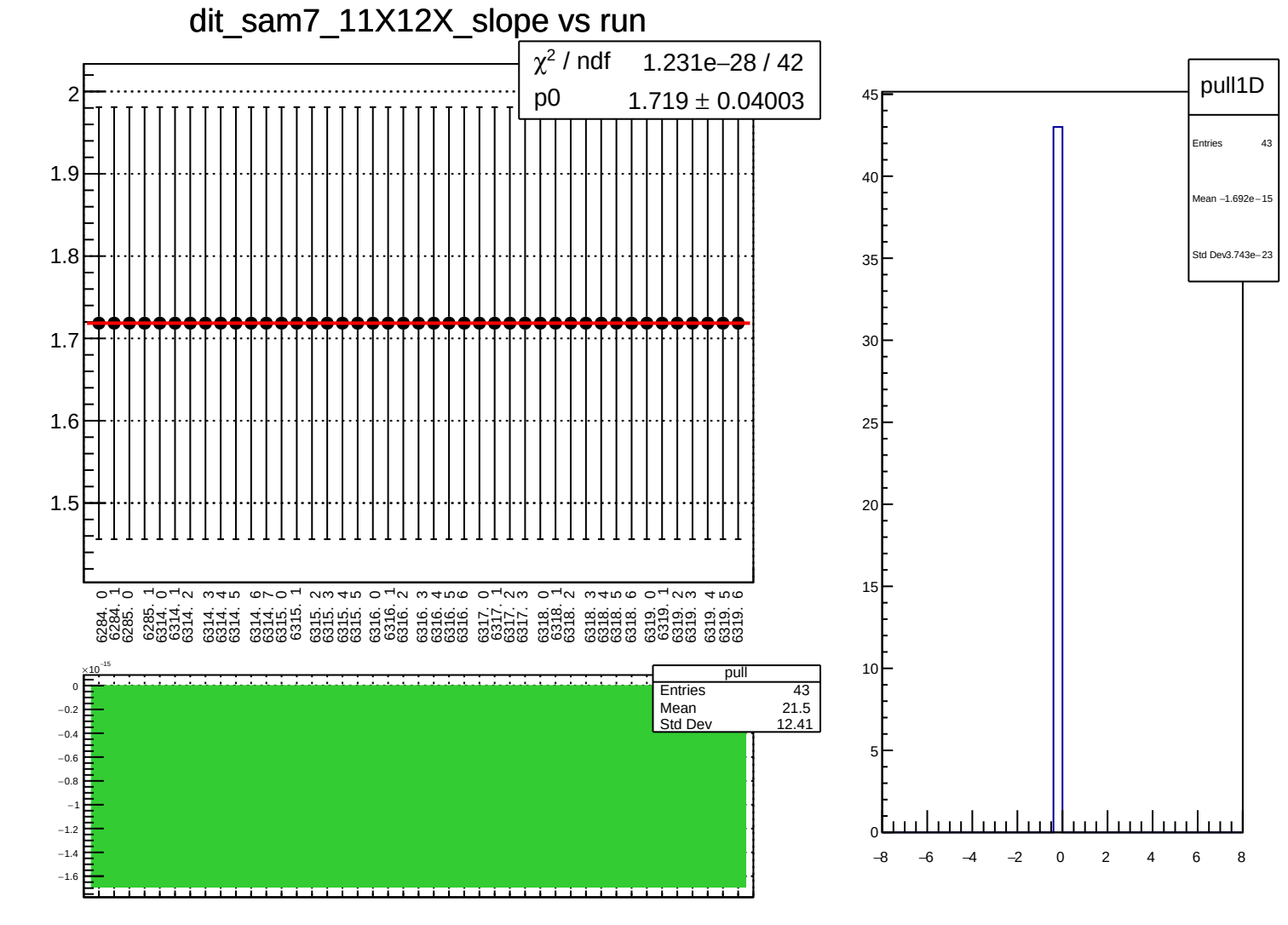

dit_sam6_4aY_slope vs run
χ² / ndf 2.589e−26 / 42
p0 22.43 ± 0.1325
23.4
23.2
23
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −2.454e−14
Std Dev7.923e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

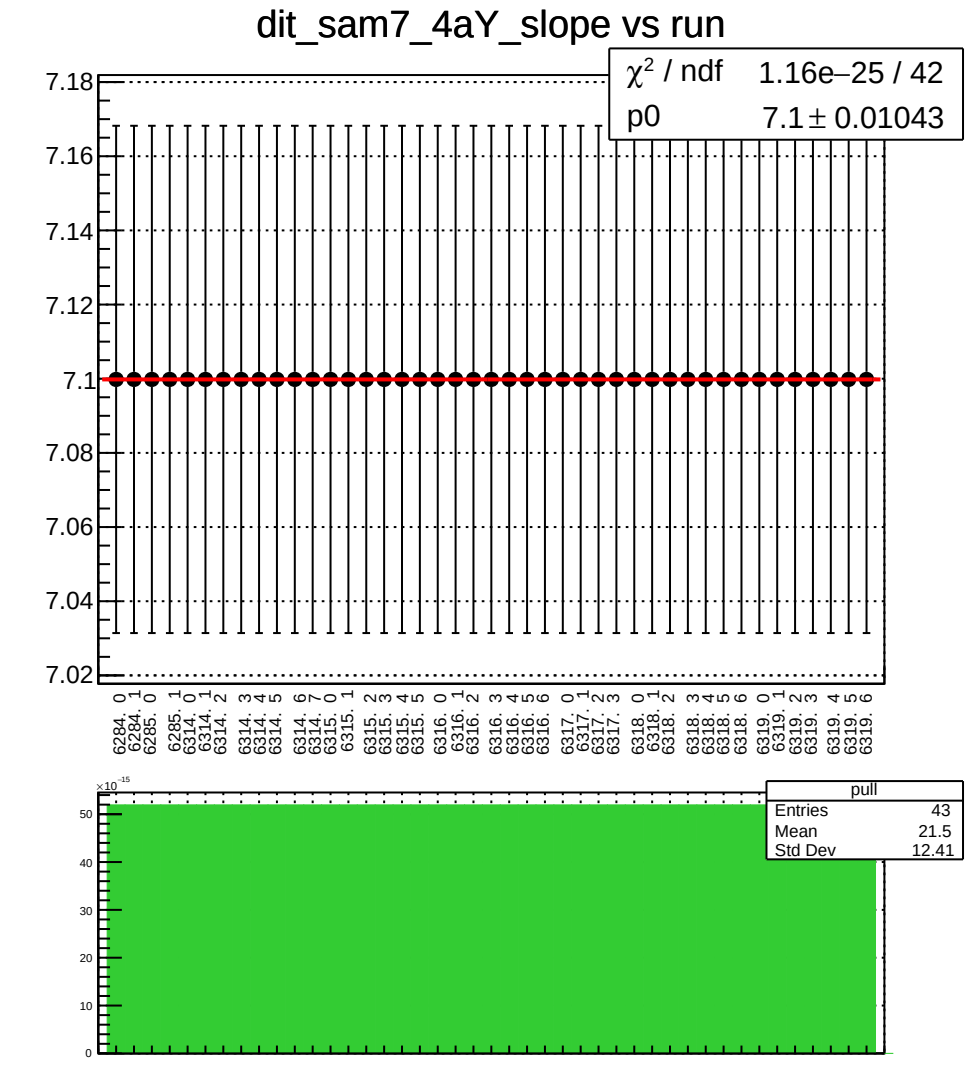

dit_sam6_4eY_slope vs run
χ² / ndf 3.69e−27 / 42
p0 81.64 ± 0.2339
83
82.5
82
81.5
81
80.5
80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
9
8
7
6
5
4
3
2
1
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 9.264e−15
Std Dev 3.818e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

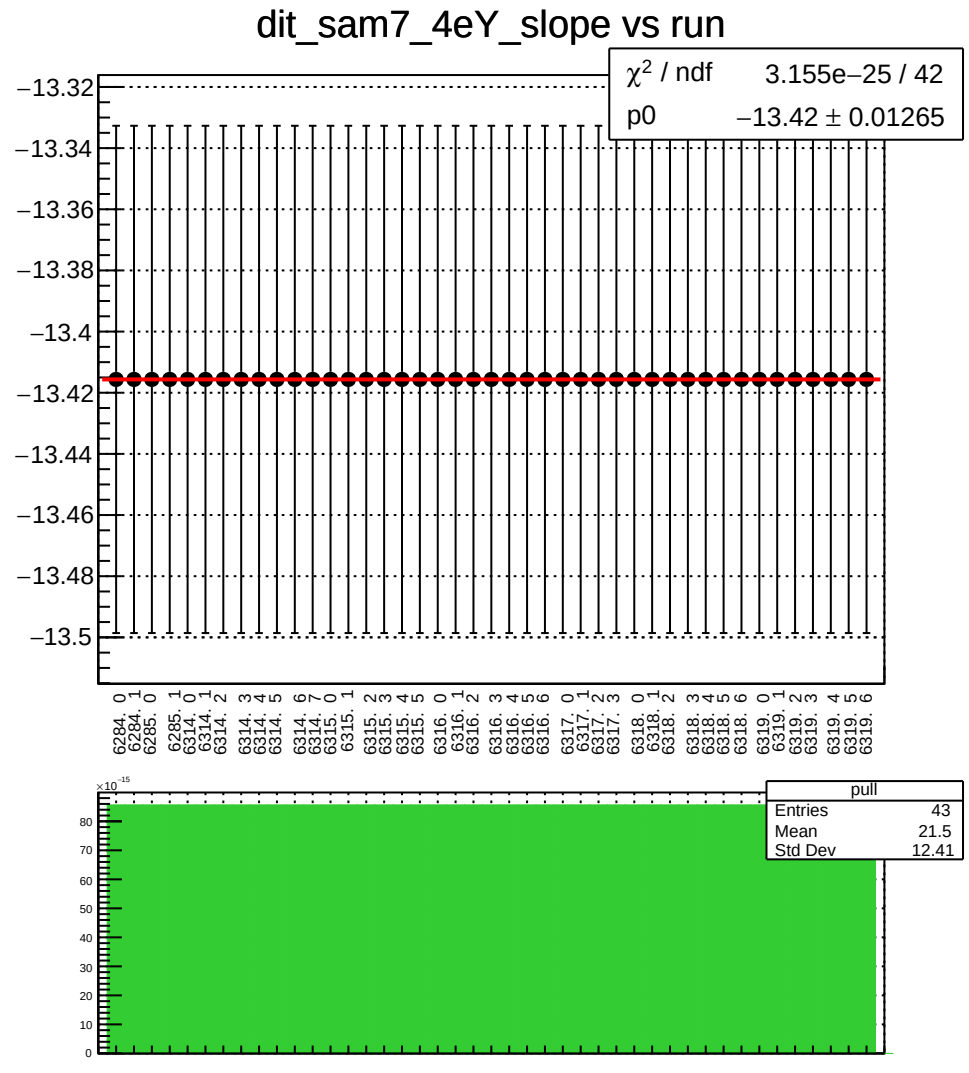

dit_sam7_4aX_slope vs run
χ² / ndf 8.199e−28 / 42
p0 44.51 ± 0.2482
46
45.5
45
44.5
44
43.5
43
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
pull
Entries 43
Mean 21.5
Std Dev 12.41

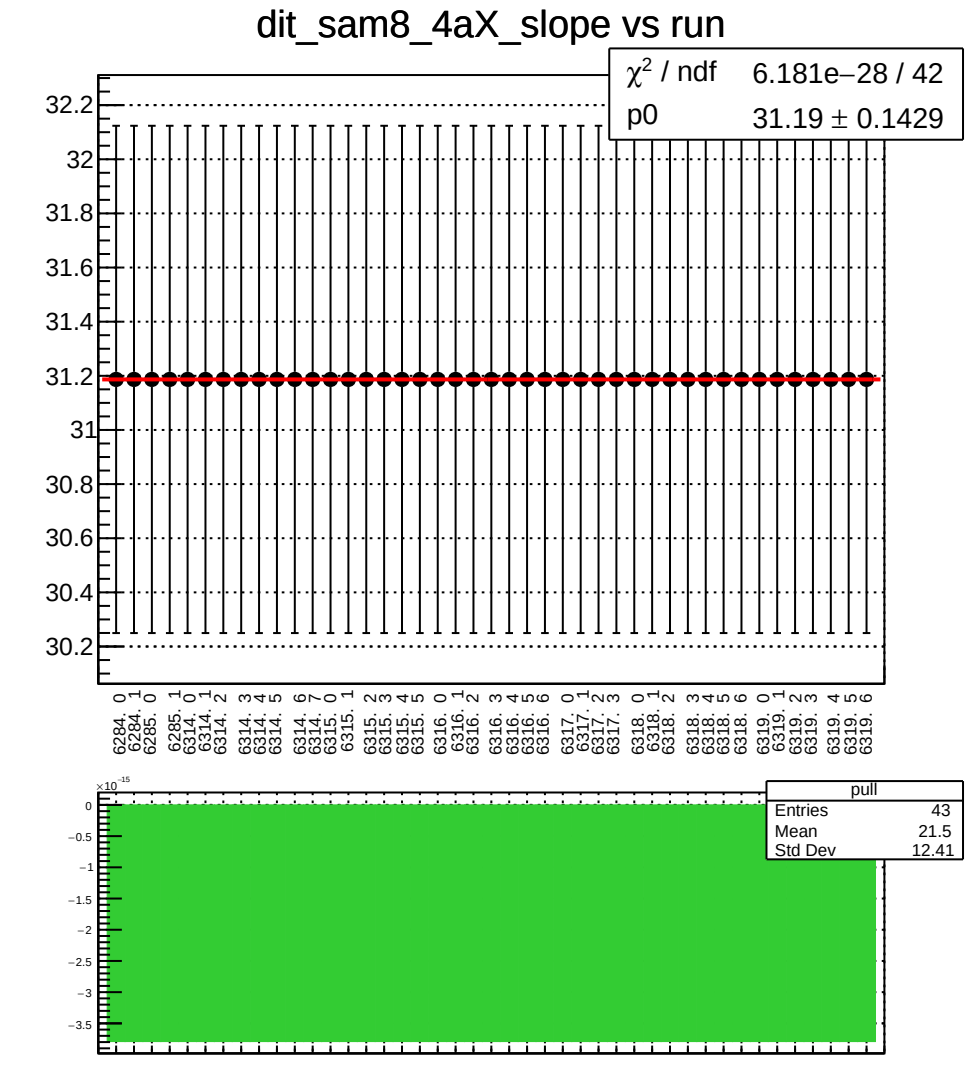

pull1D
Entries 43
Mean −4.367e−15
Std Dev1.834e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

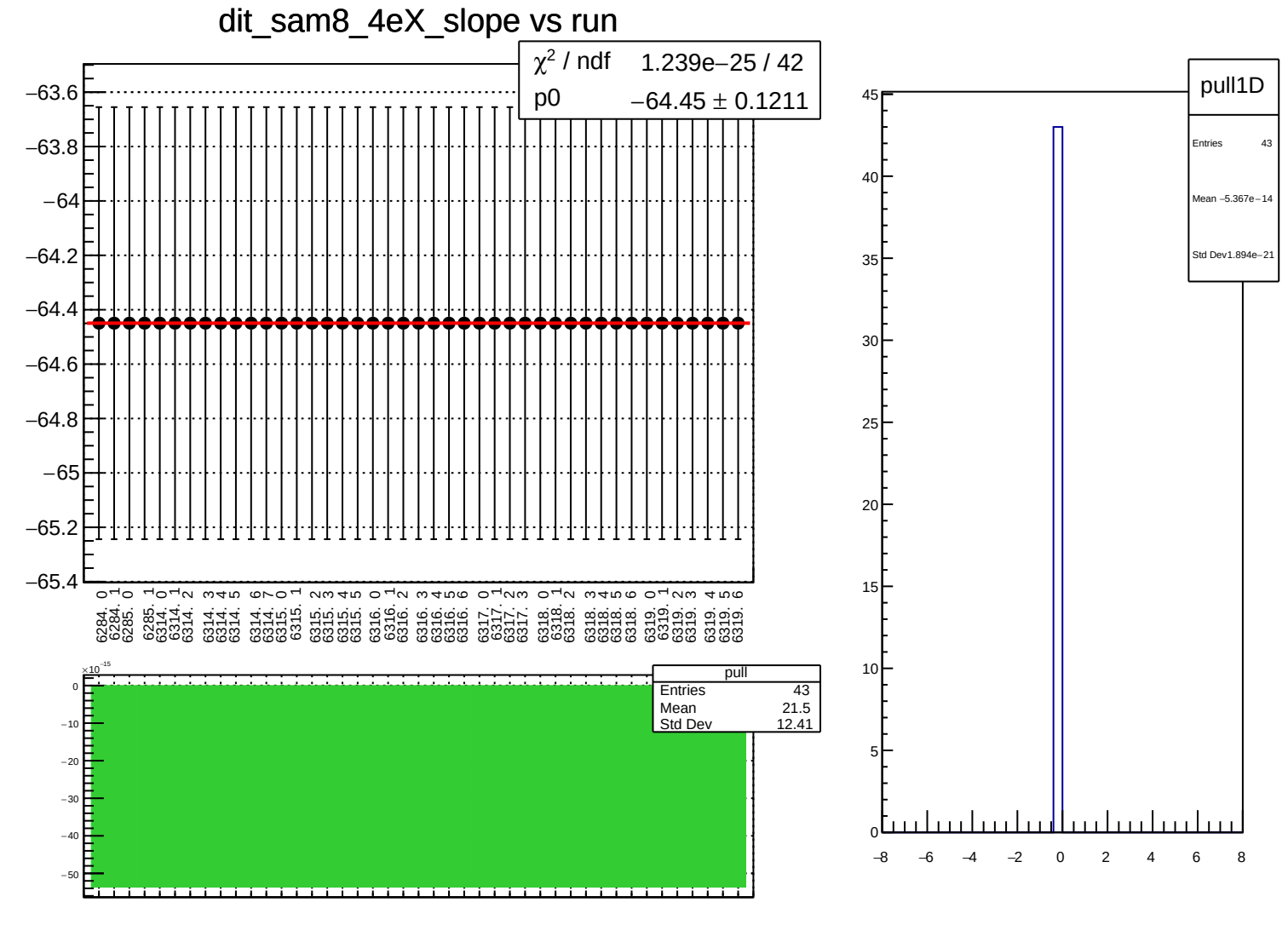

dit_sam7_4eX_slope vs run
χ² / ndf 1.752e−25 / 42
p0 −79.98 ± 0.2037
−78.5
−79
−79.5
−80
−80.5
−81
−81.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
60
50
40
30
20
10
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 6.382e−14
Std Dev2.241e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

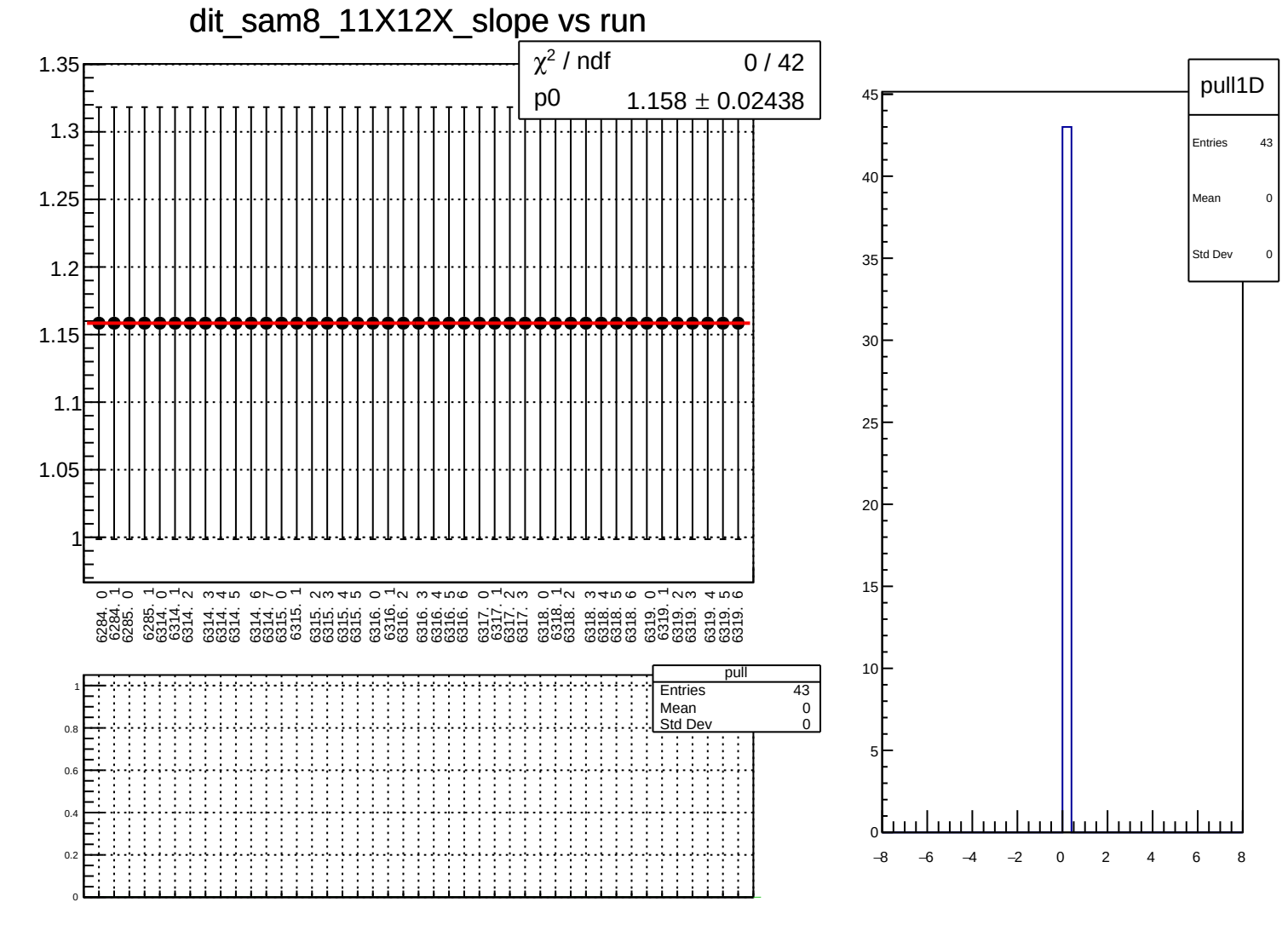

dit_sam7_11X12X_slope vs run
χ² / ndf 1.231e−28 / 42
p0 1.719 ± 0.04003
2
1.9
1.8
1.7
1.6
1.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −1.692e−15
Std Dev 3.743e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

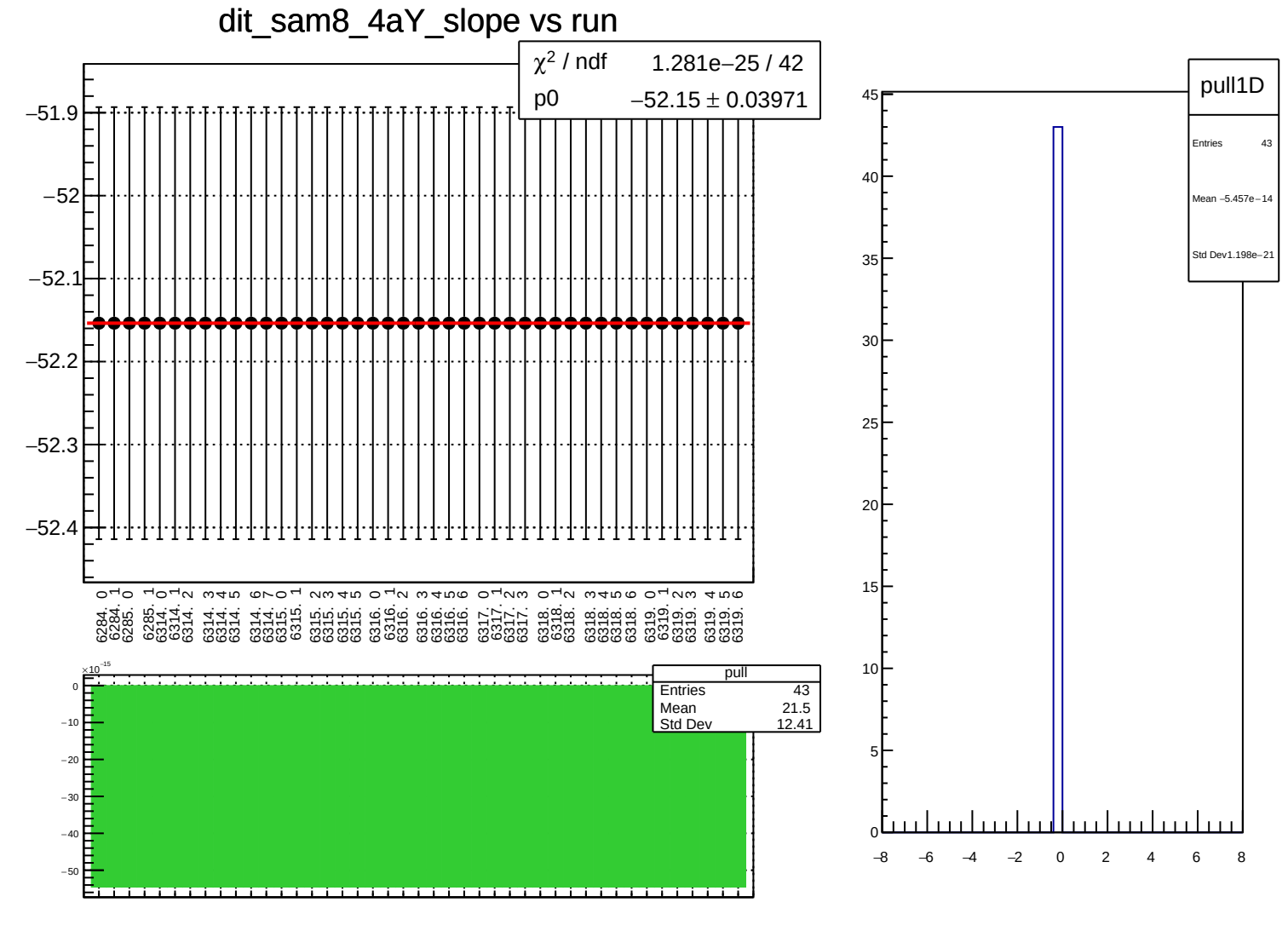

dit_sam7_4aY_slope vs run
χ² / ndf 1.16e−25 / 42
p0 7.1 ± 0.01043
7.18
7.16
7.14
7.12
7.1
7.08
7.06
7.04
7.02
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 5.194e−14
Std Dev 1.339e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

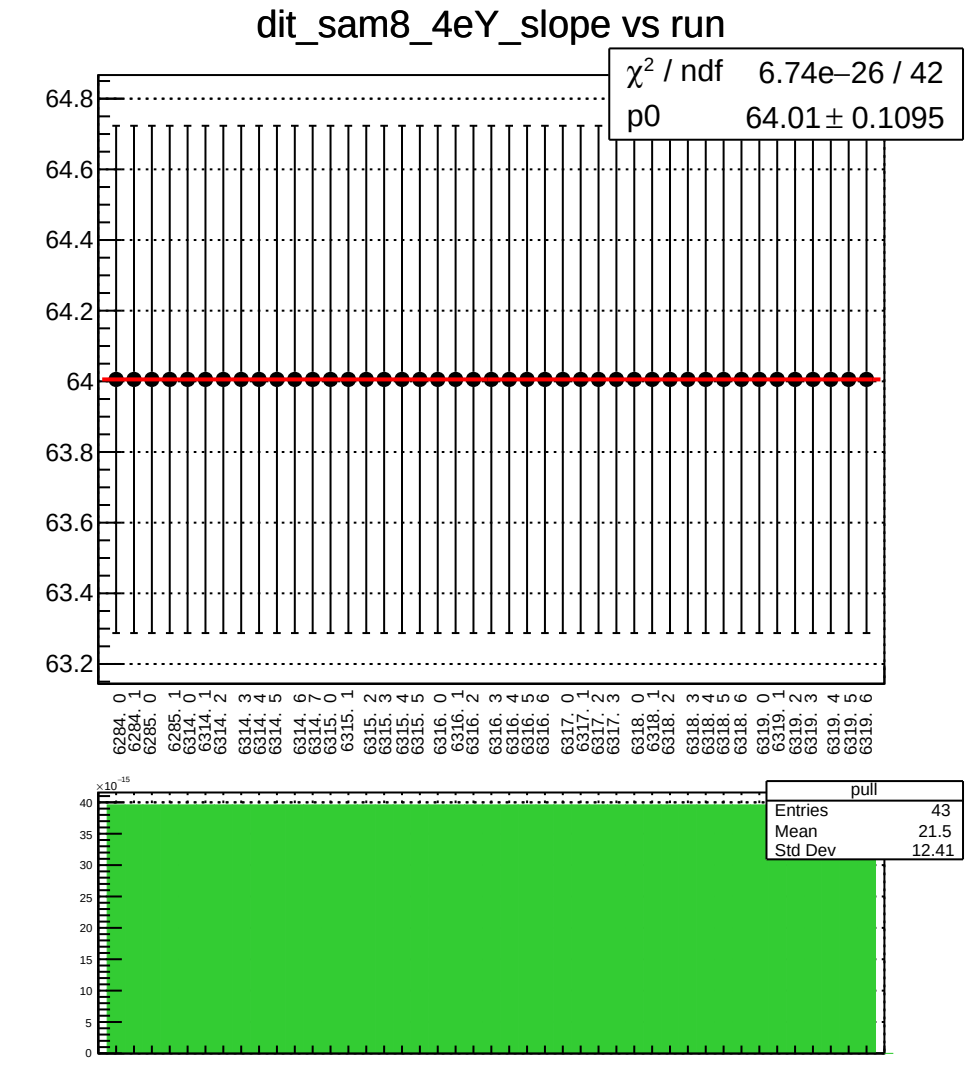

dit_sam7_4eY_slope vs run
χ² / ndf 3.155e−25 / 42
p0 −13.42 ± 0.01265
−13.32
−13.34
−13.36
−13.38
−13.4
−13.42
−13.44
−13.46
−13.48
−13.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
80
70
60
50
40
30
20
10
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 8.566e−14
Std Dev2.075e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

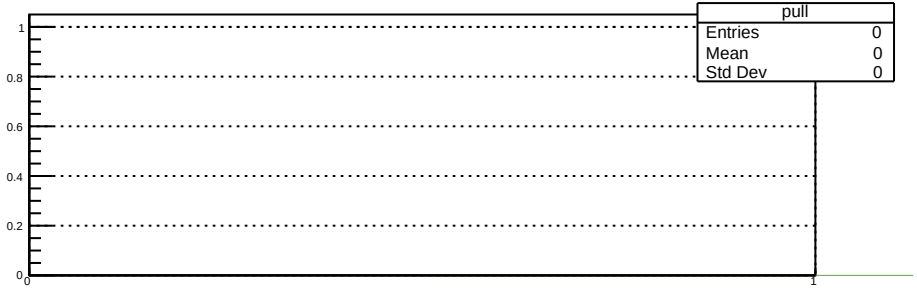

dit_sam8_4aX_slope vs run
χ² / ndf 6.181e−28 / 42
p0 31.19 ± 0.1429
32.2
32
31.8
31.6
31.4
31.2
31
30.8
30.6
30.4
30.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −3.792e−15
Std Dev1.401e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

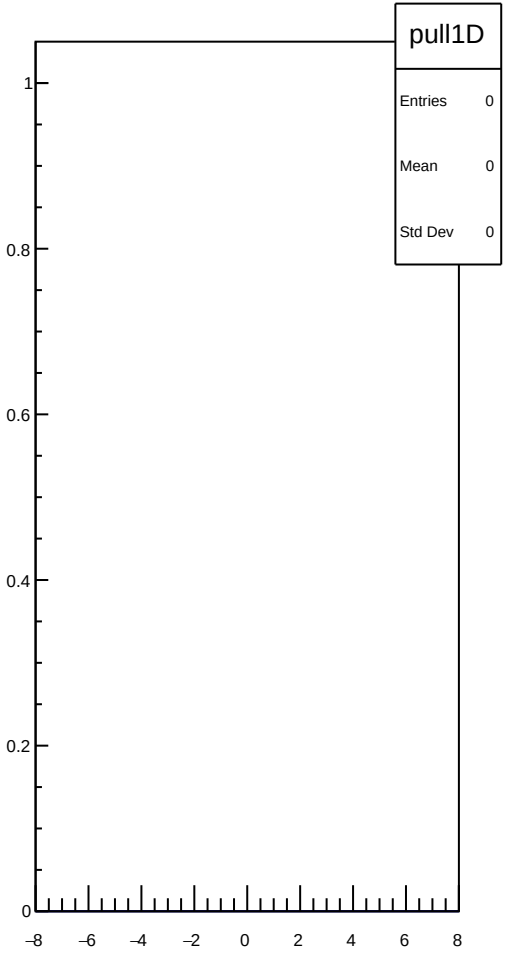

dit_sam8_4eX_slope vs run
χ² / ndf 1.239e−25 / 42
p0 −64.45 ± 0.1211
−63.6
−63.8
−64
−64.2
−64.4
−64.6
−64.8
−65
−65.2
−65.4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻�15
0
−10
−20
−30
−40
−50
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −5.367e−14
Std Dev1.894e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

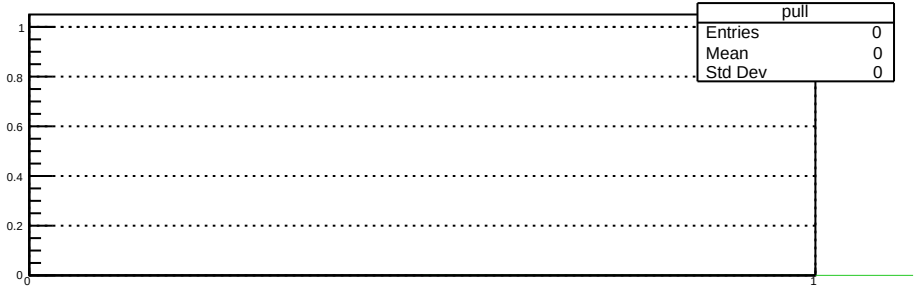

dit_sam8_11X12X_slope vs run
χ² / ndf 0 / 42
p0 1.158 ± 0.02438
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 43
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

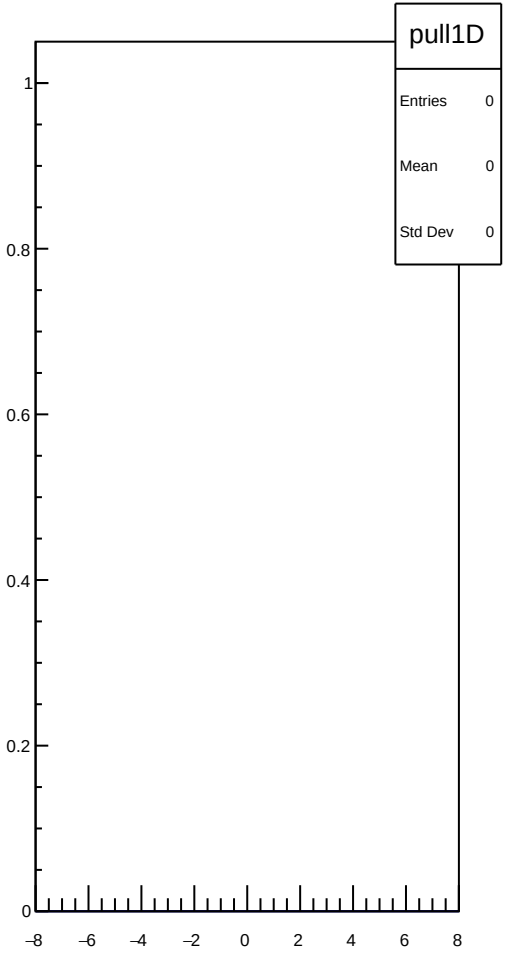

dit_sam8_4aY_slope vs run
χ² / ndf 1.281e−25 / 42
p0 −52.15 ± 0.03971
−51.9
−52
−52.1
−52.2
−52.3
−52.4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −5.457e−14
Std Dev1.198e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

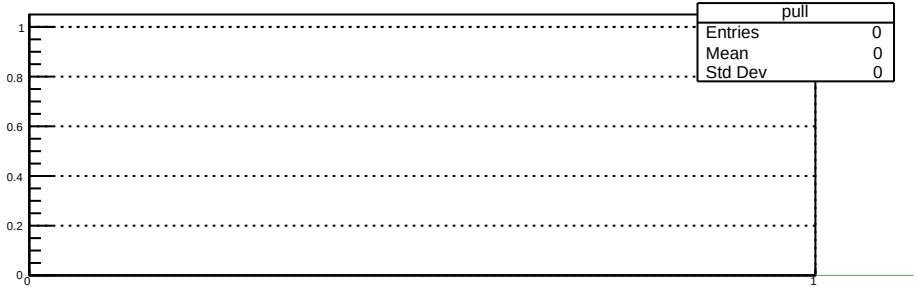

dit_sam8_4eY_slope vs run
χ² / ndf 6.74e−26 / 42
p0 64.01 ± 0.1095
64.8
64.6
64.4
64.2
64
63.8
63.6
63.4
63.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
40
35
30
25
20
15
10
5
0
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean 3.959e−14
Std Dev 1.64e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

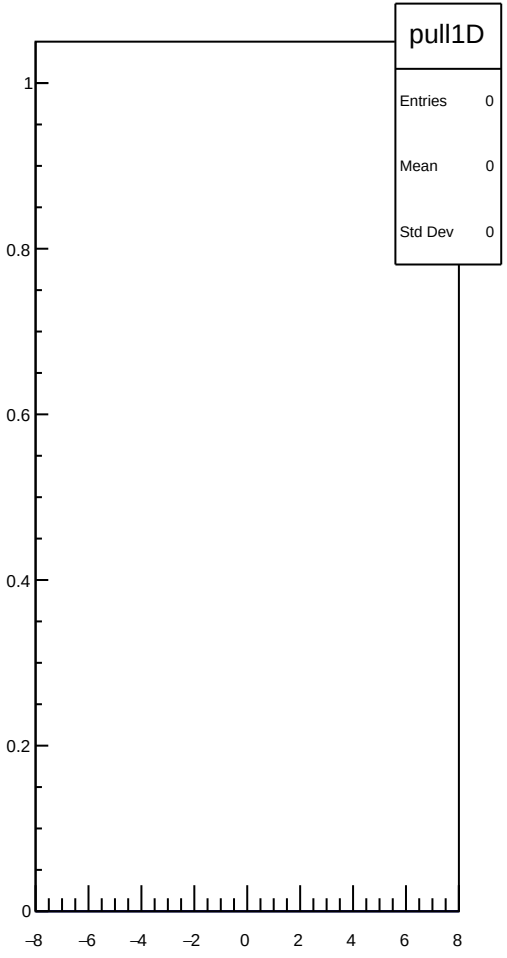

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

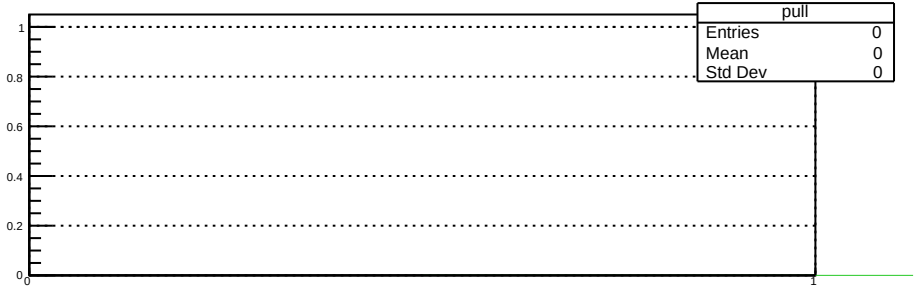

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

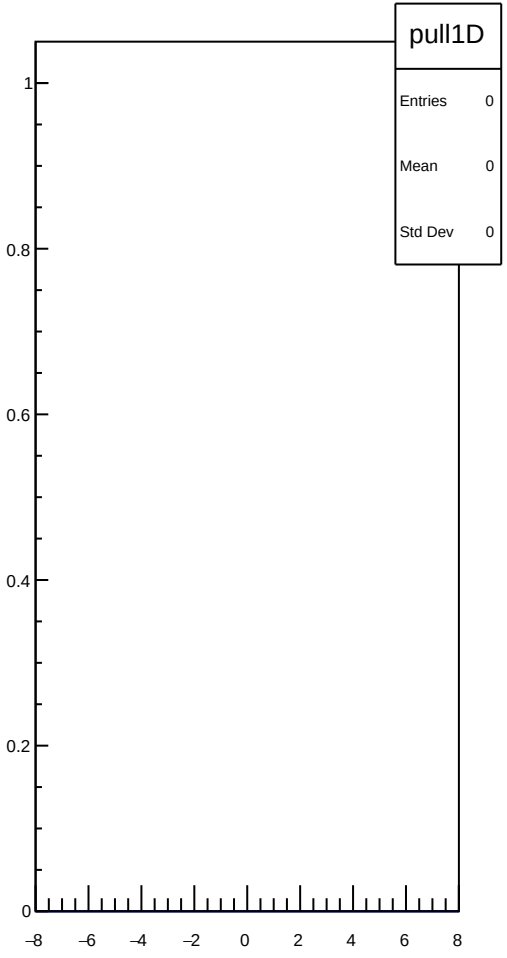

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

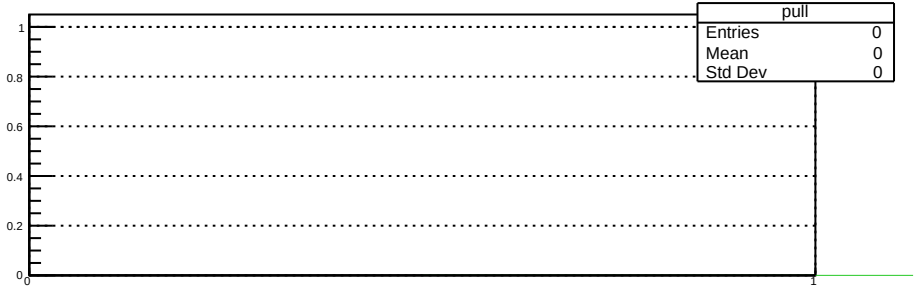

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

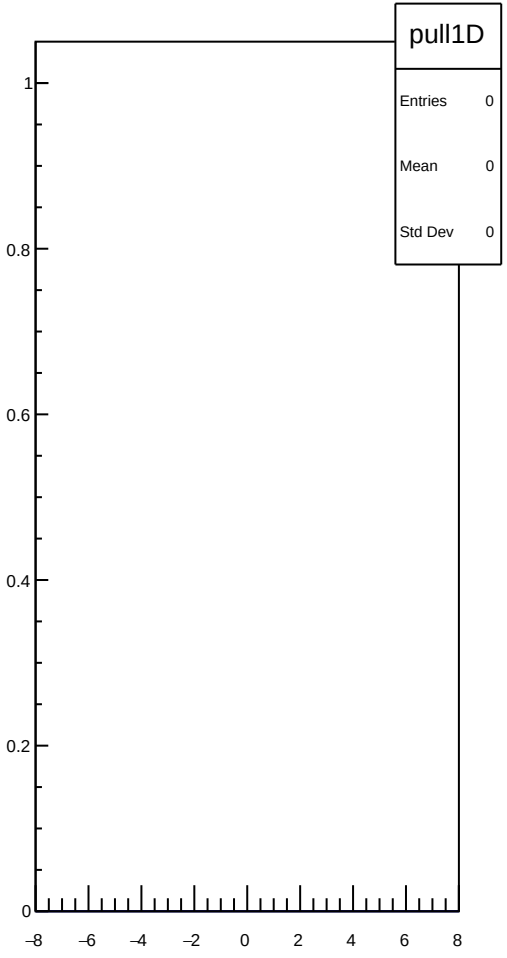

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

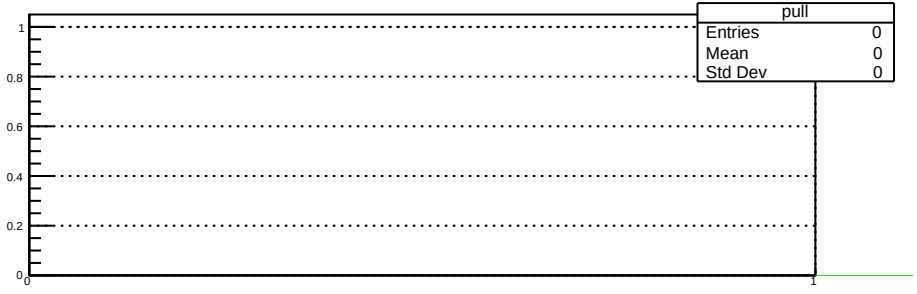

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

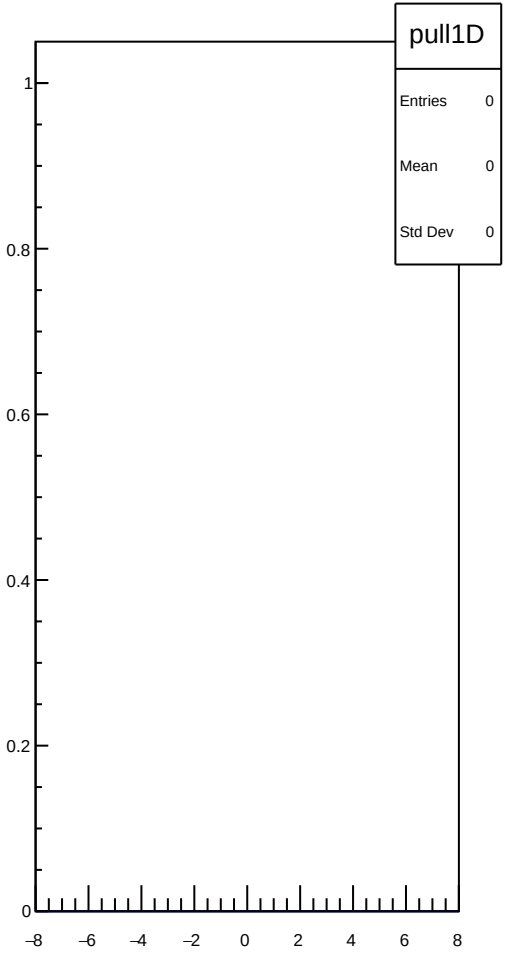

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

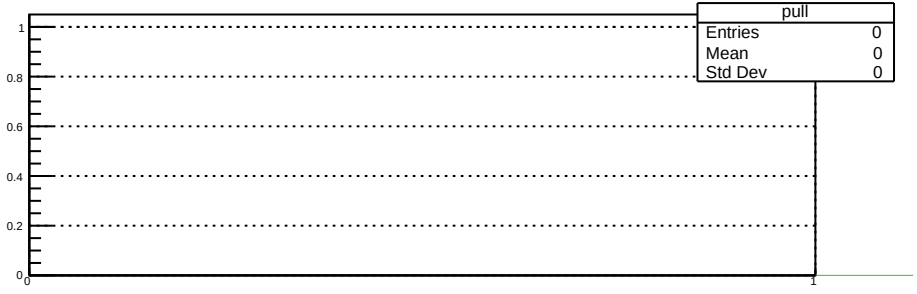

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

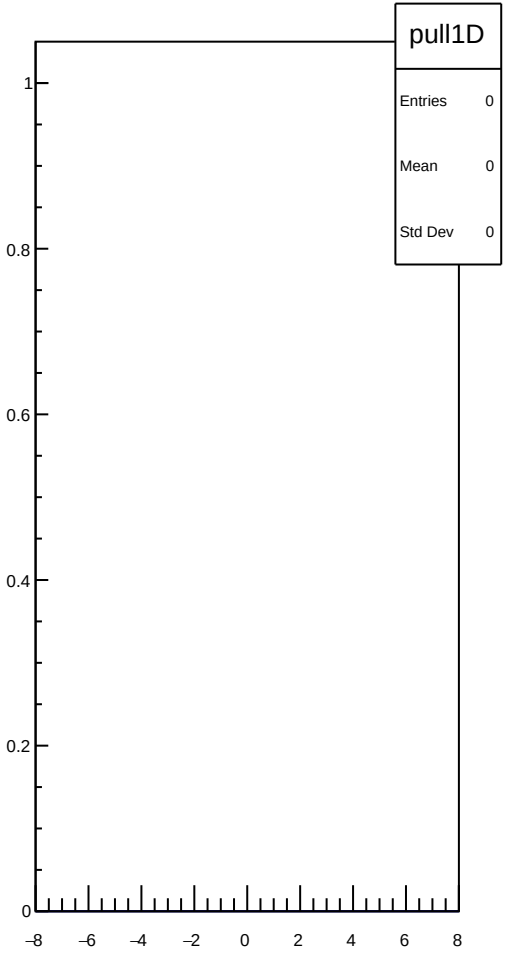

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

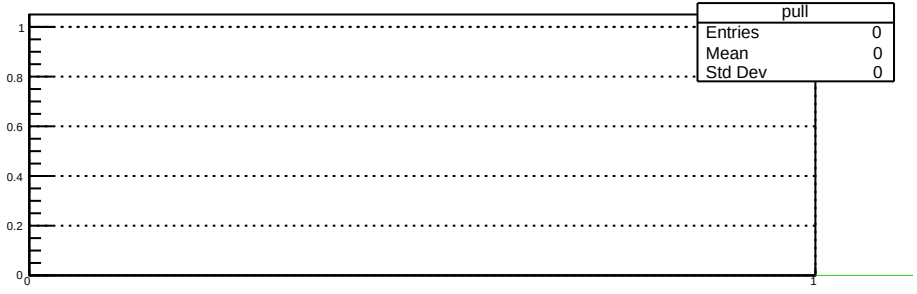

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

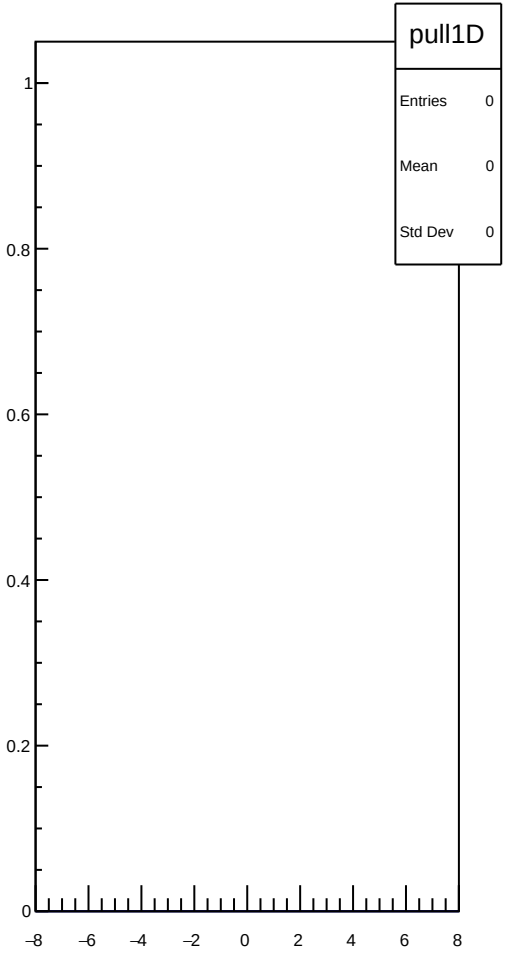

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

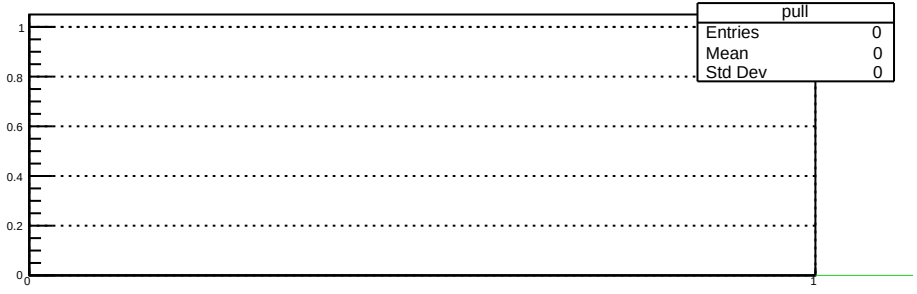

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

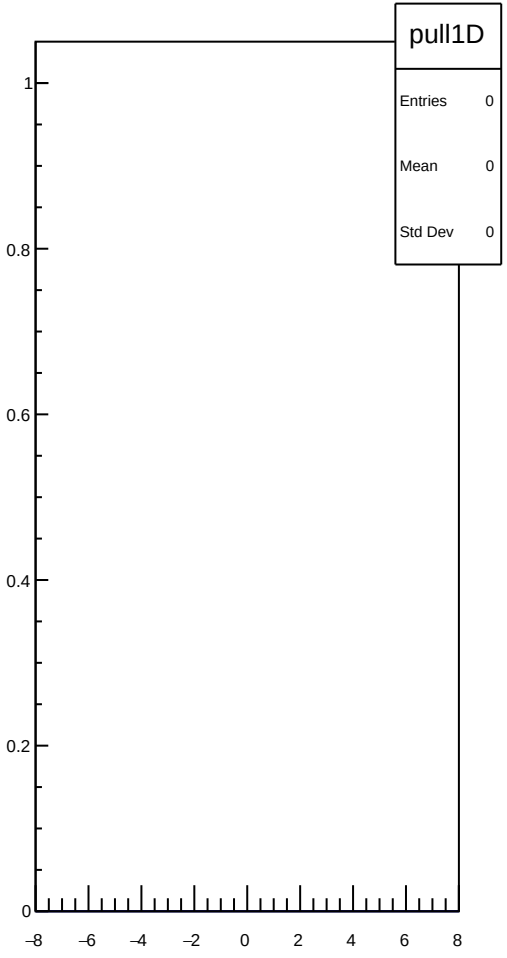

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

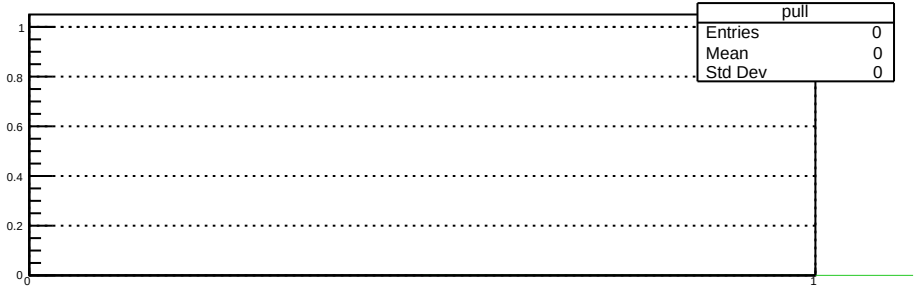

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

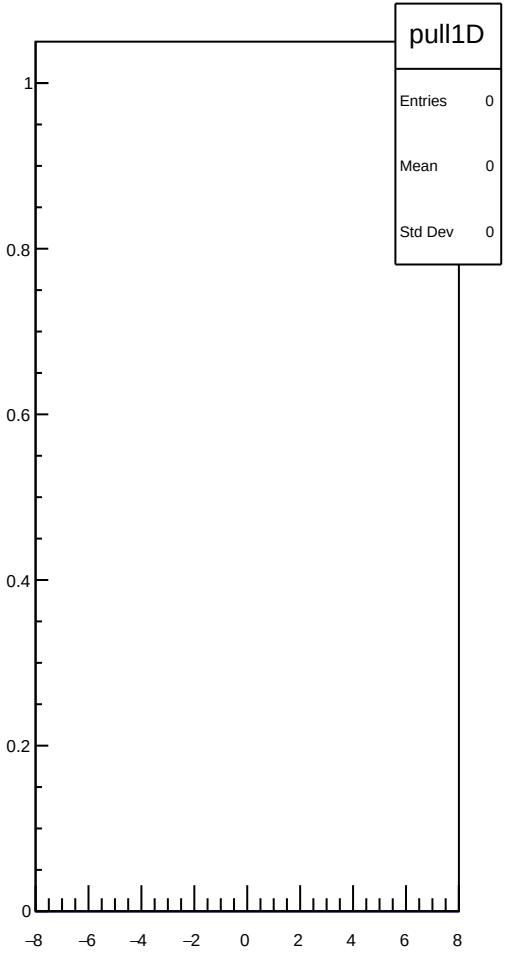

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

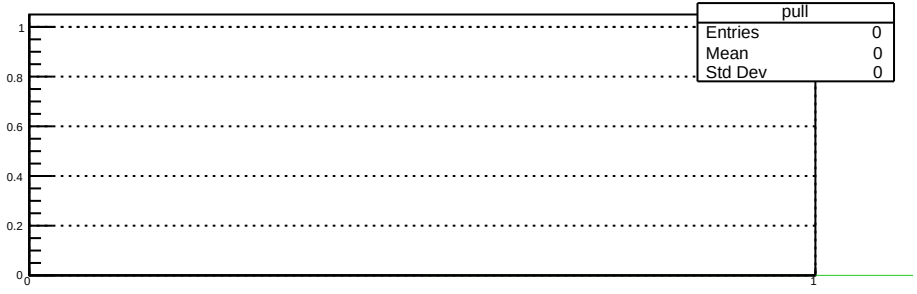

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

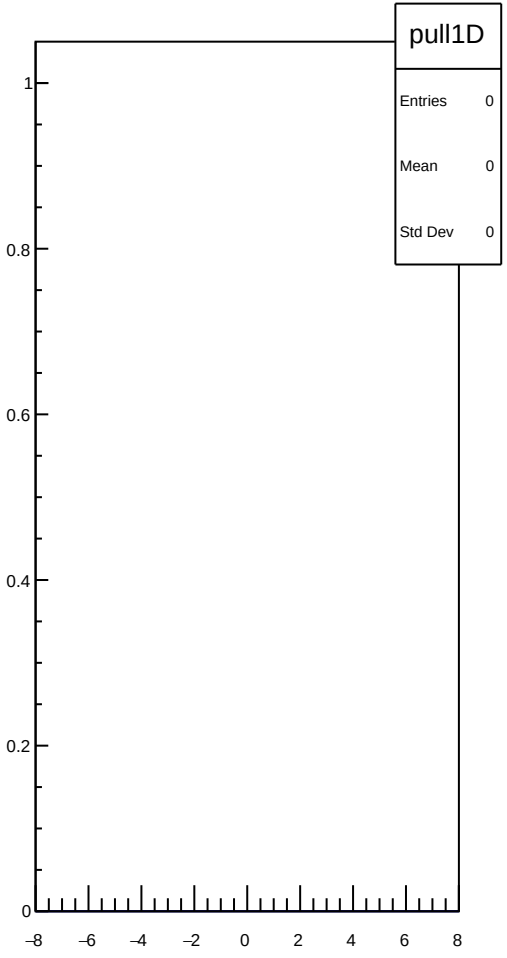

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

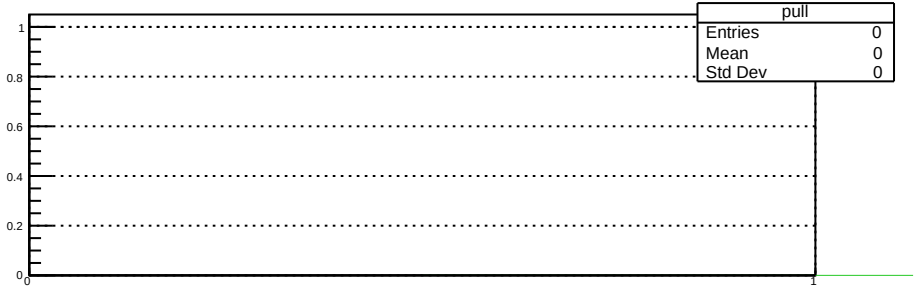

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

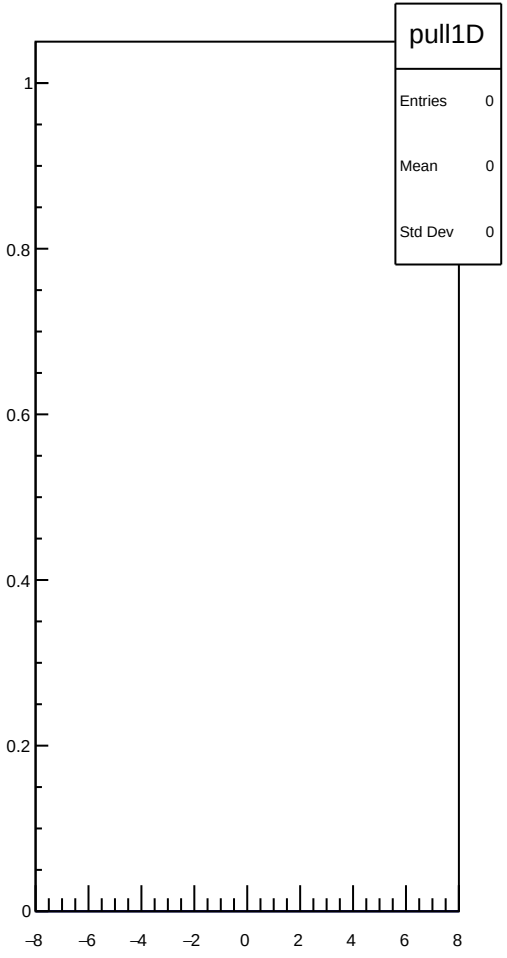

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

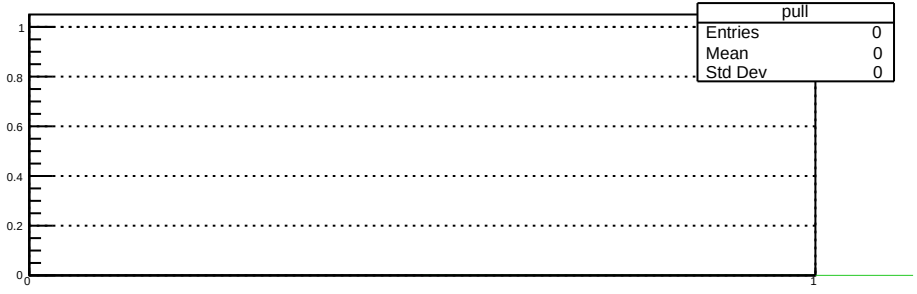

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

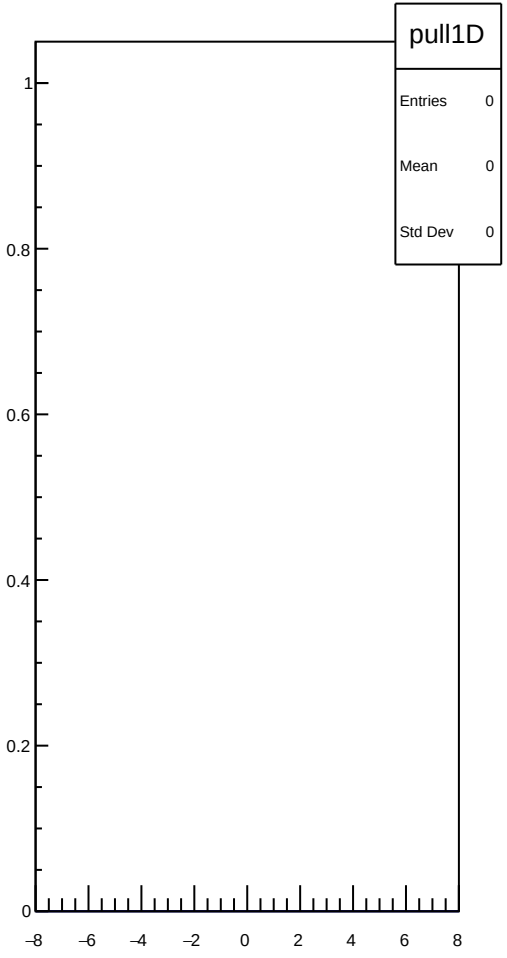

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

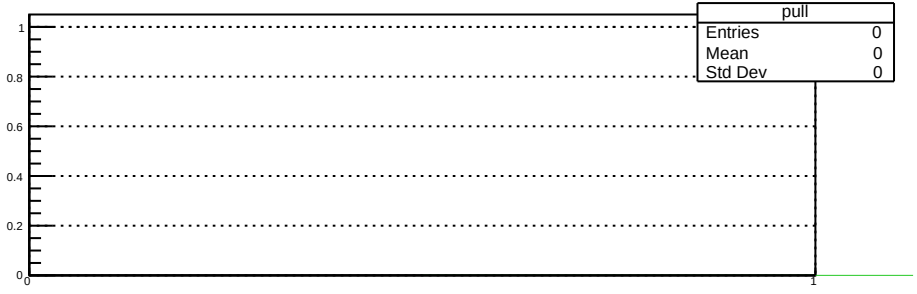

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

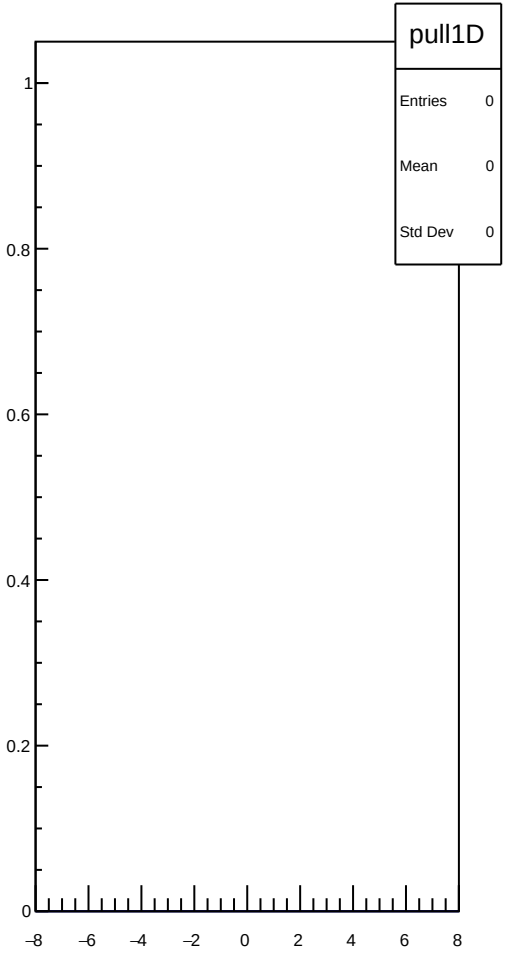

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

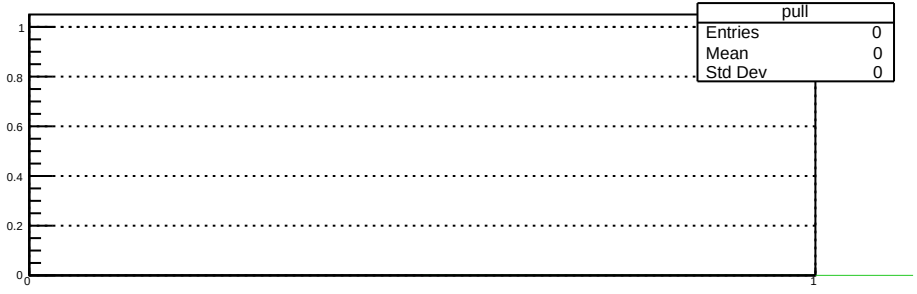

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

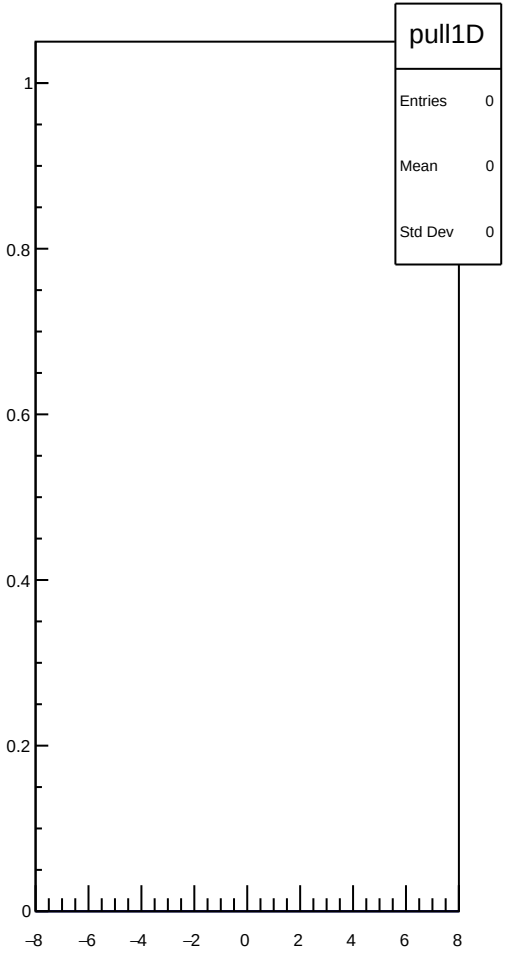

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

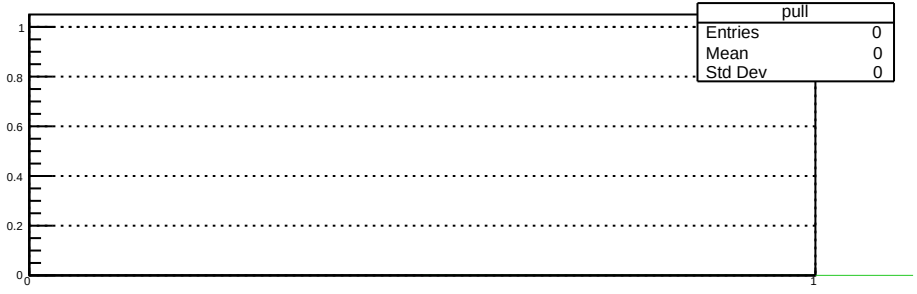

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

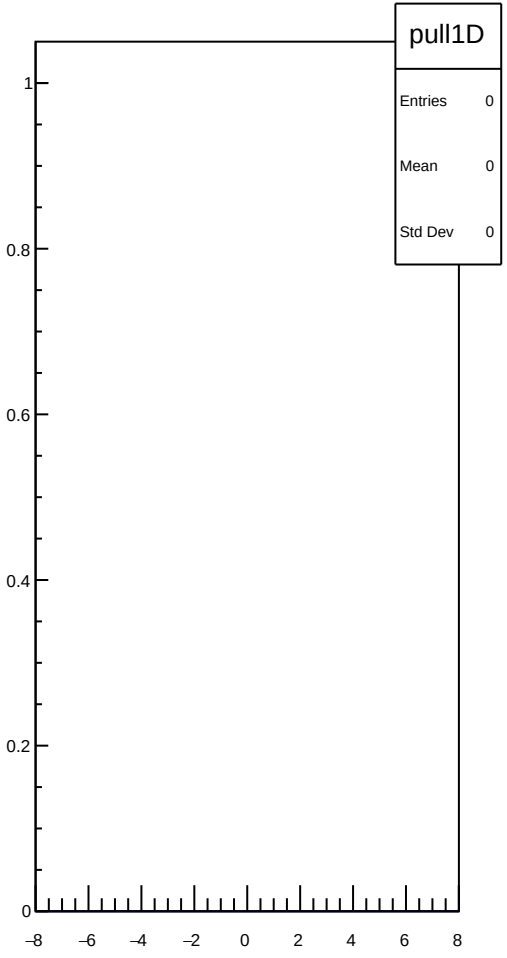

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

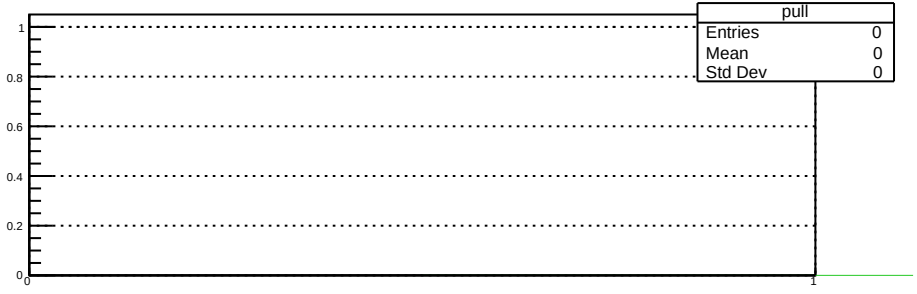

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

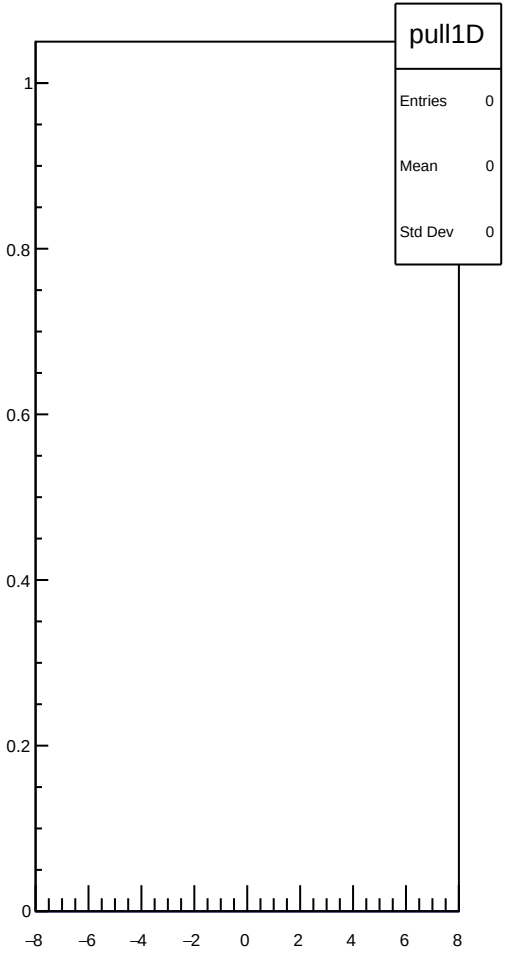

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

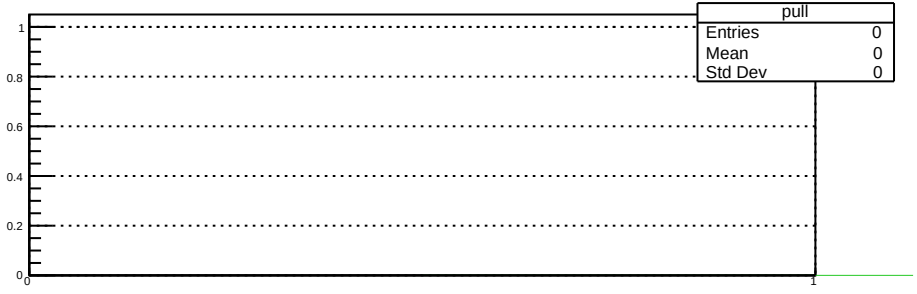

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

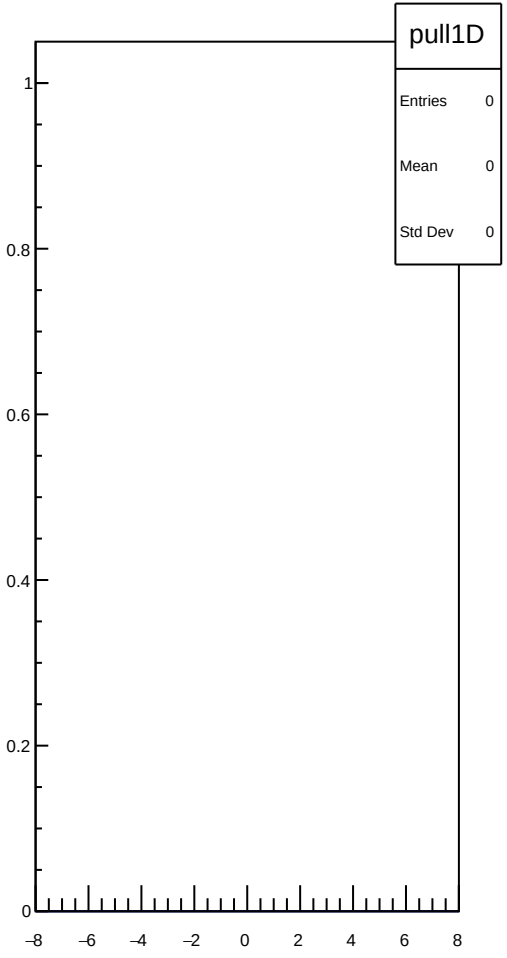

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

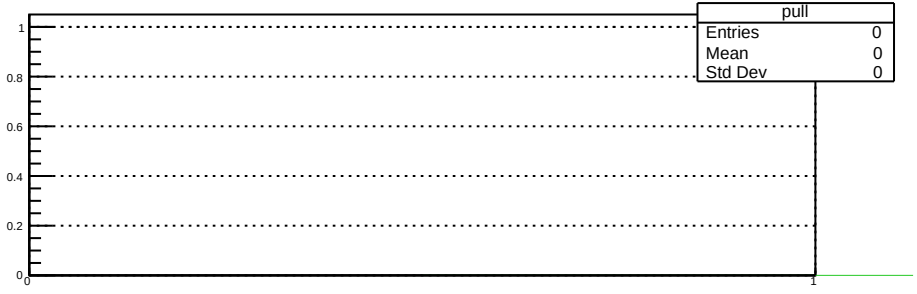

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

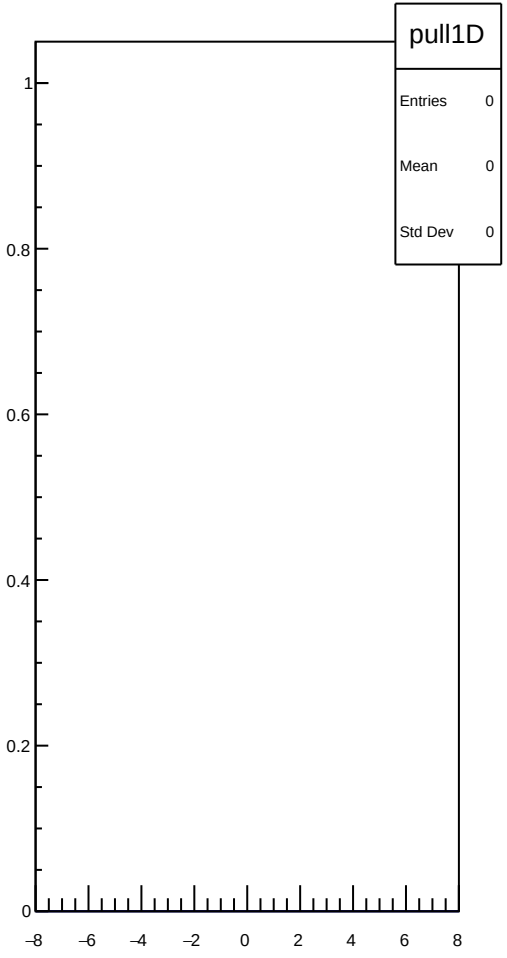

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

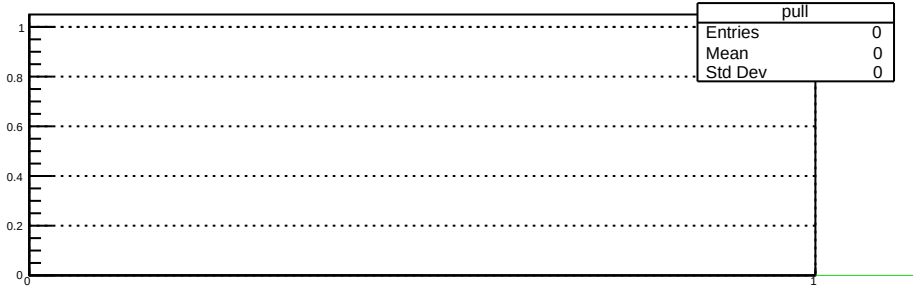

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

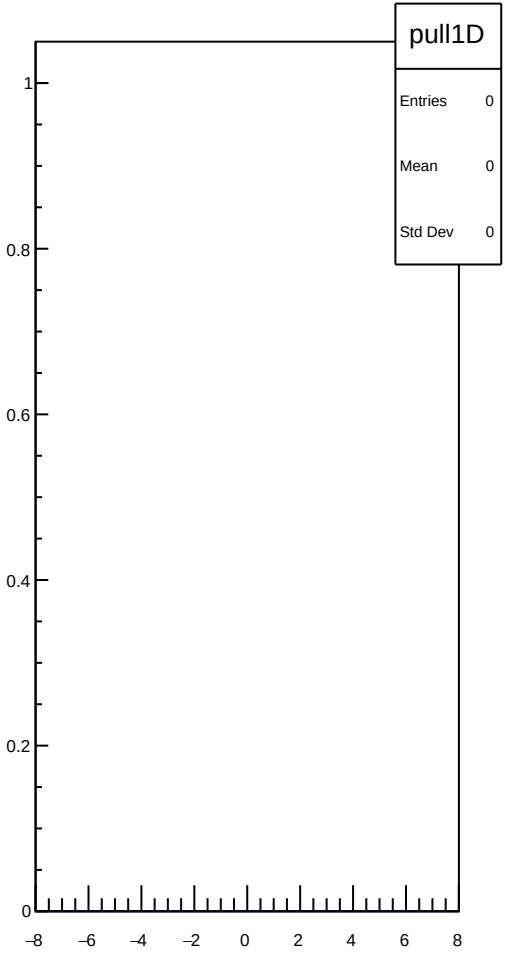

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

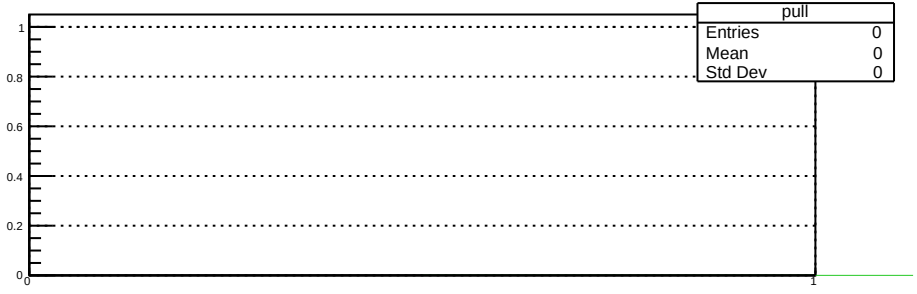

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

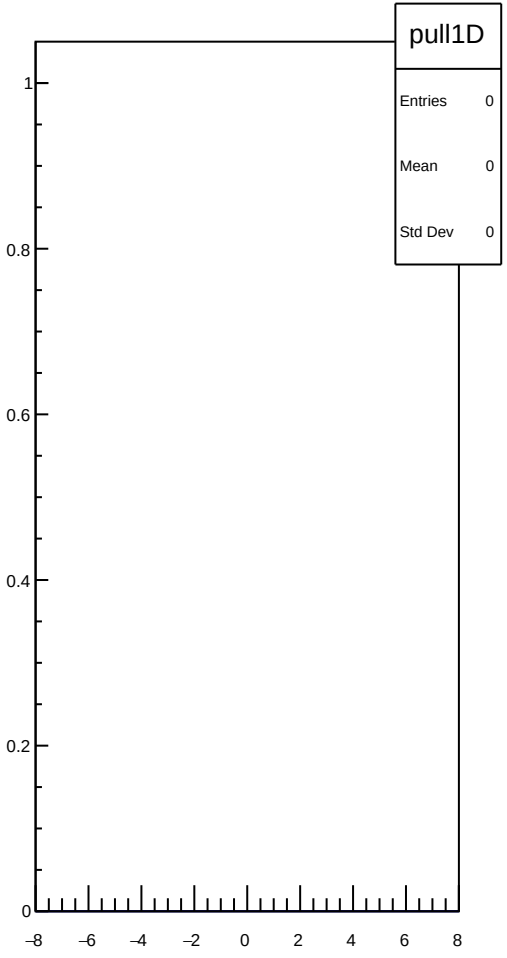

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

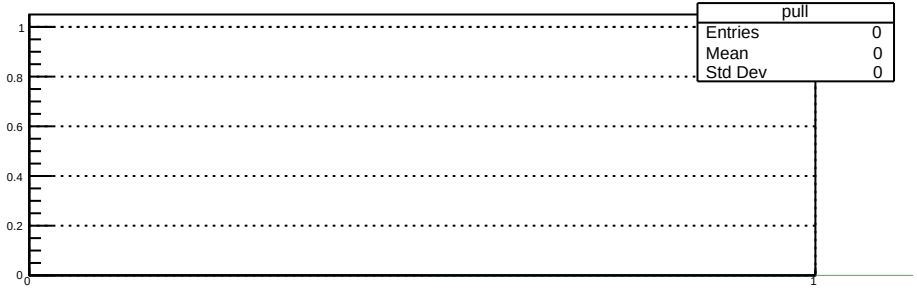

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

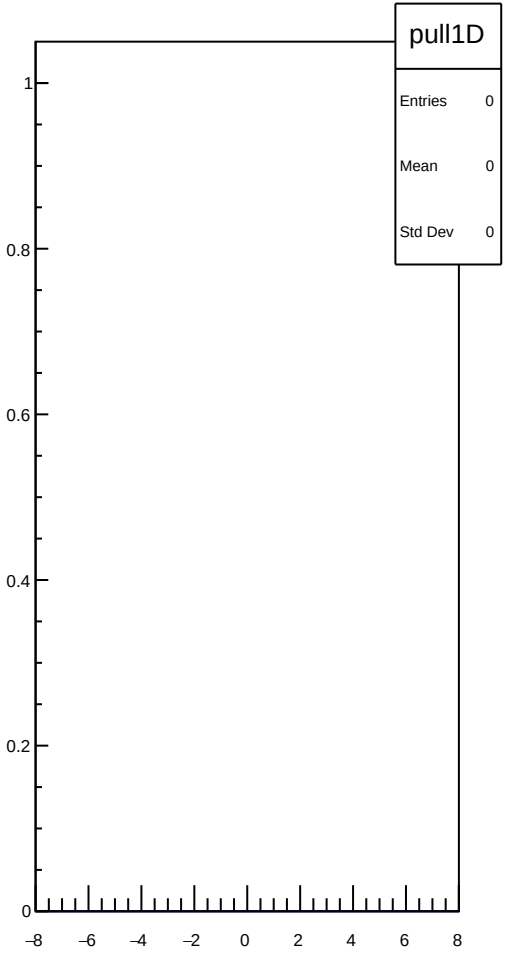

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

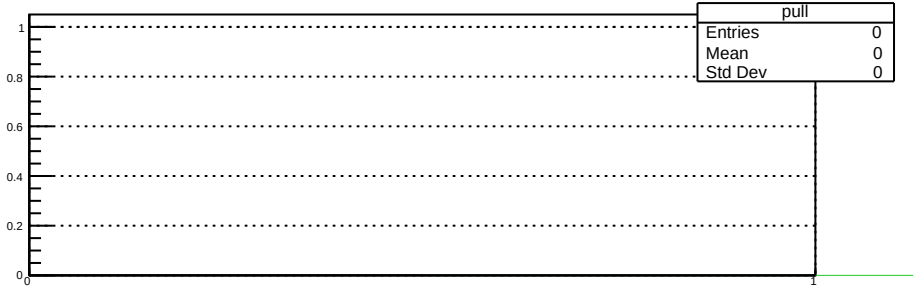

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

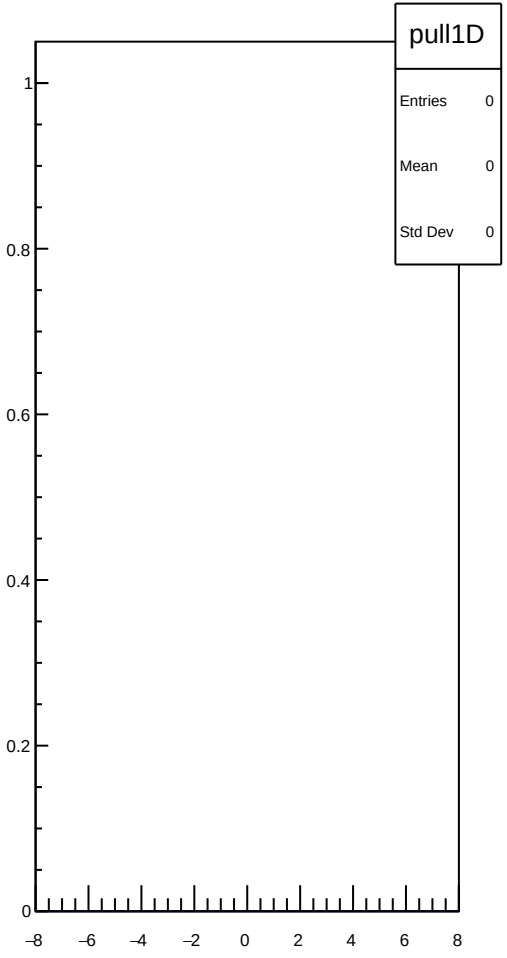

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

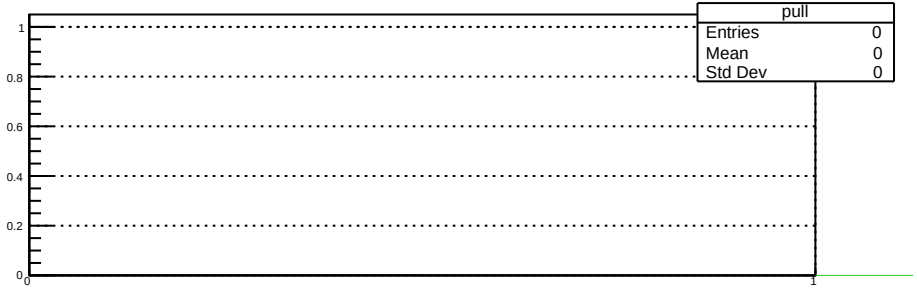

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

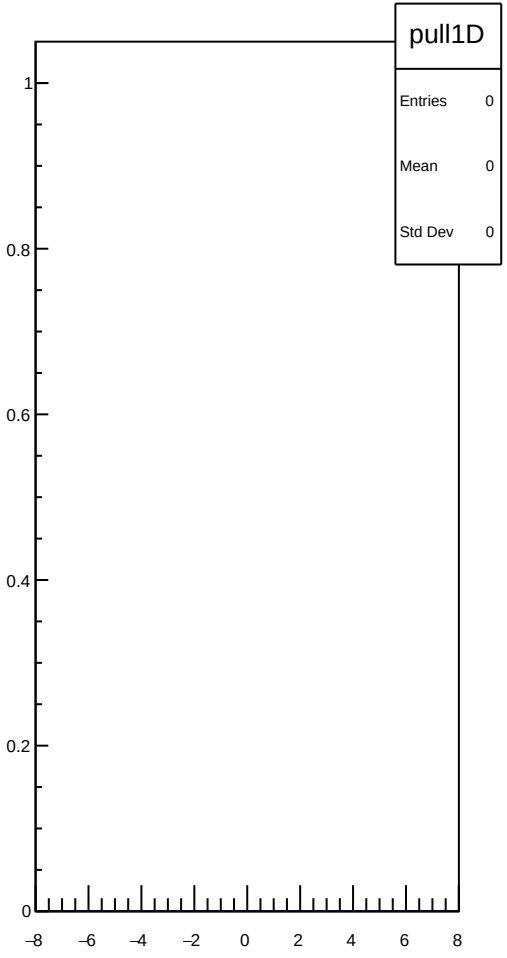

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

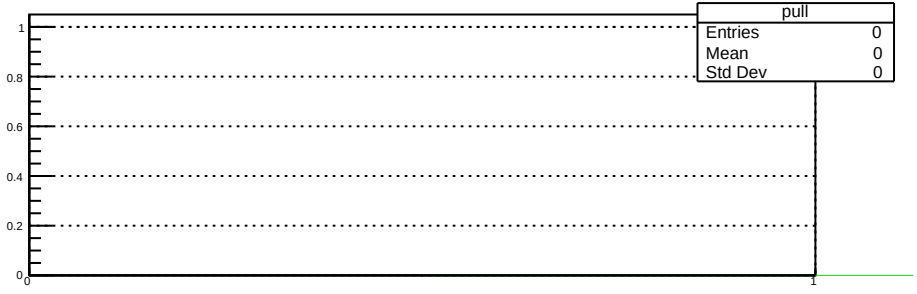

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

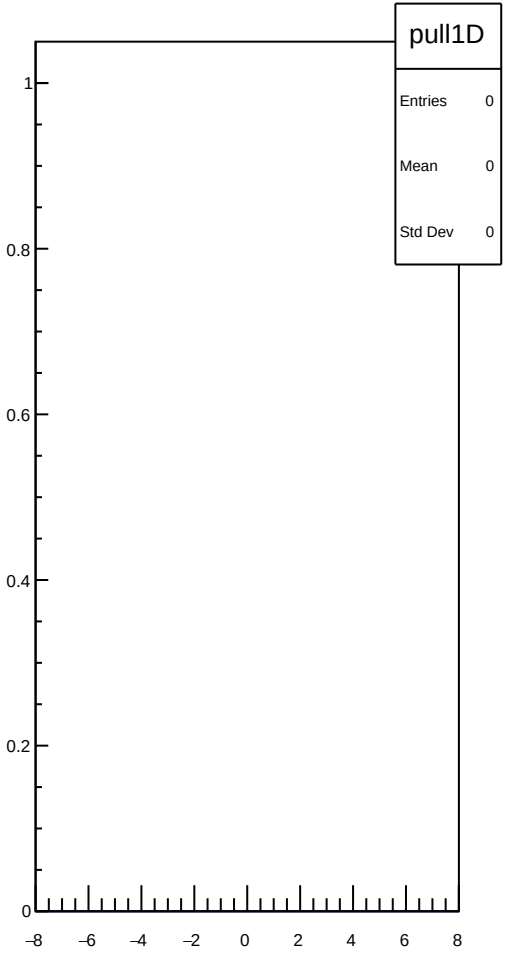

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

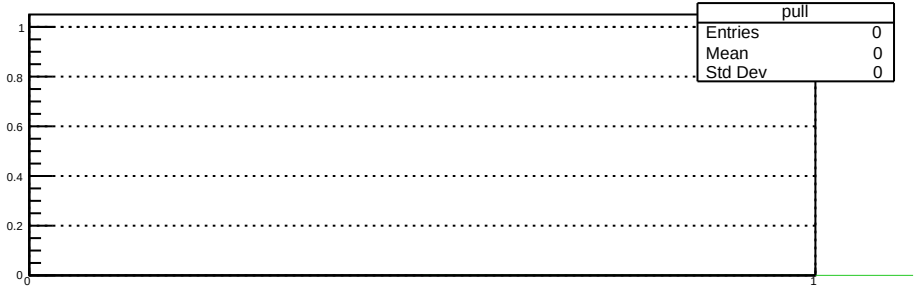

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

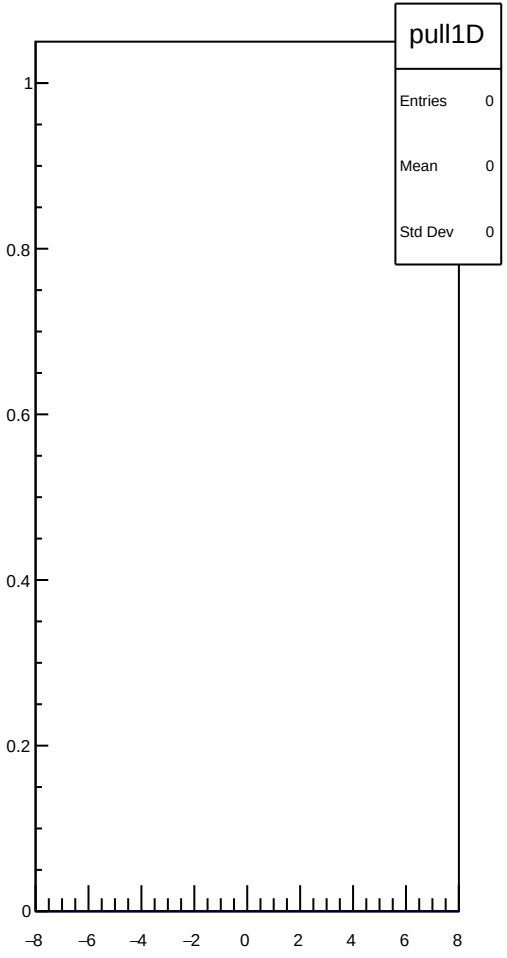

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

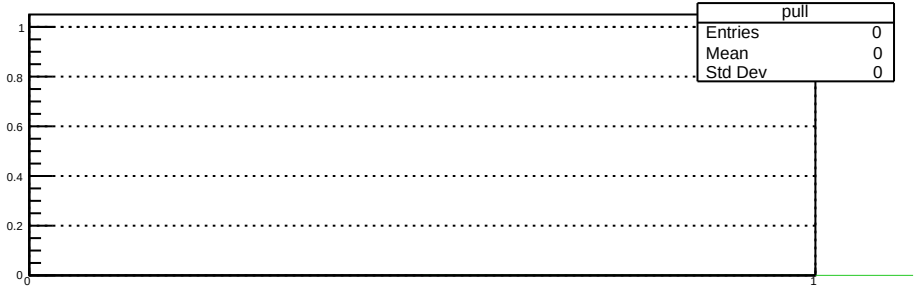

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

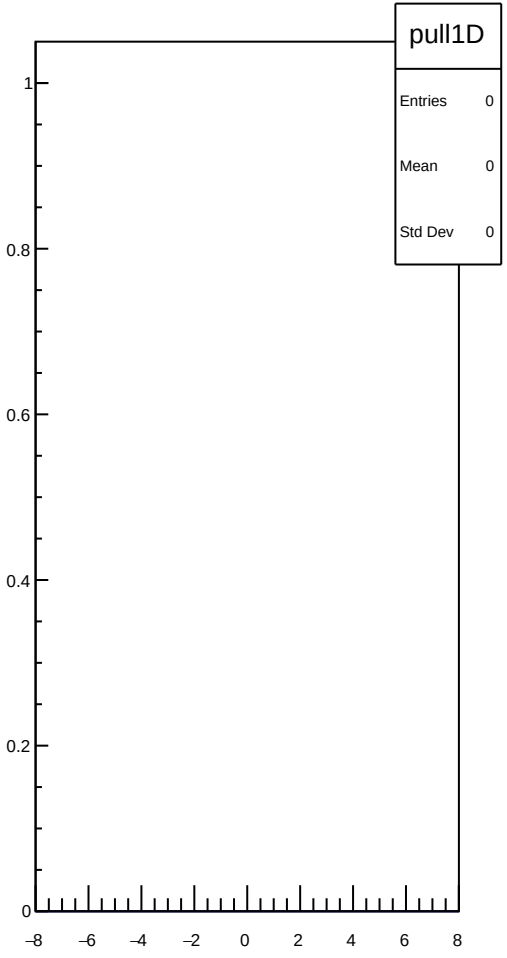

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

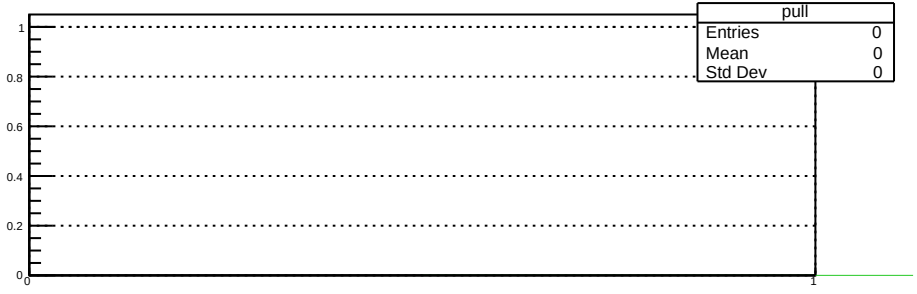

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

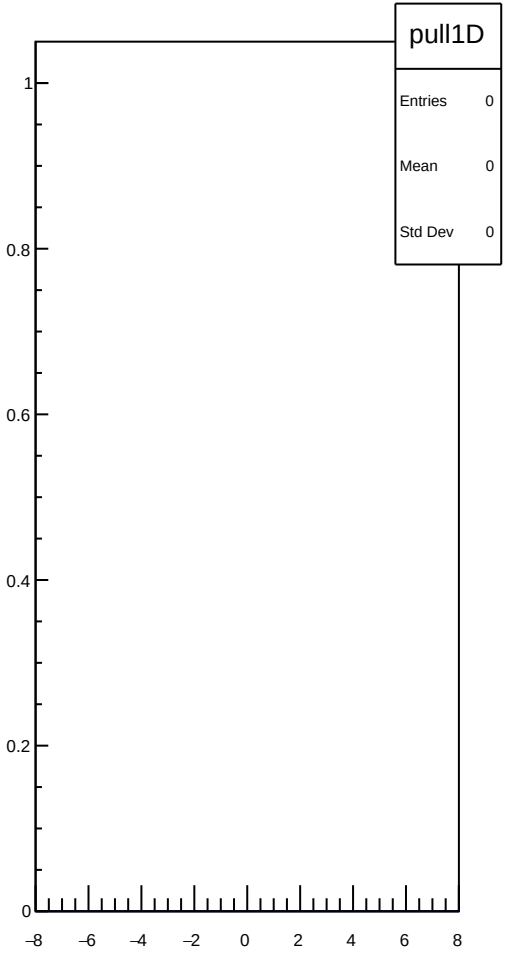

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

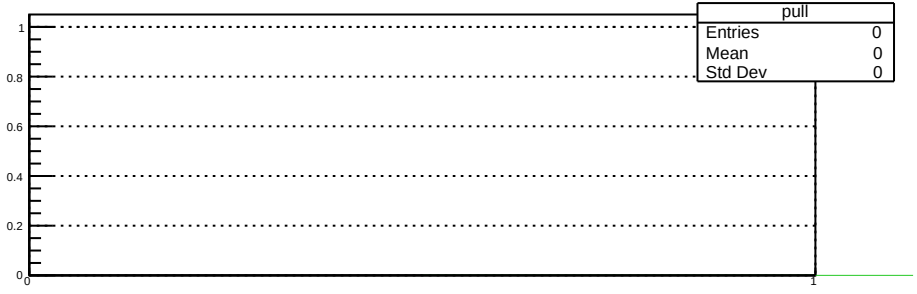

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

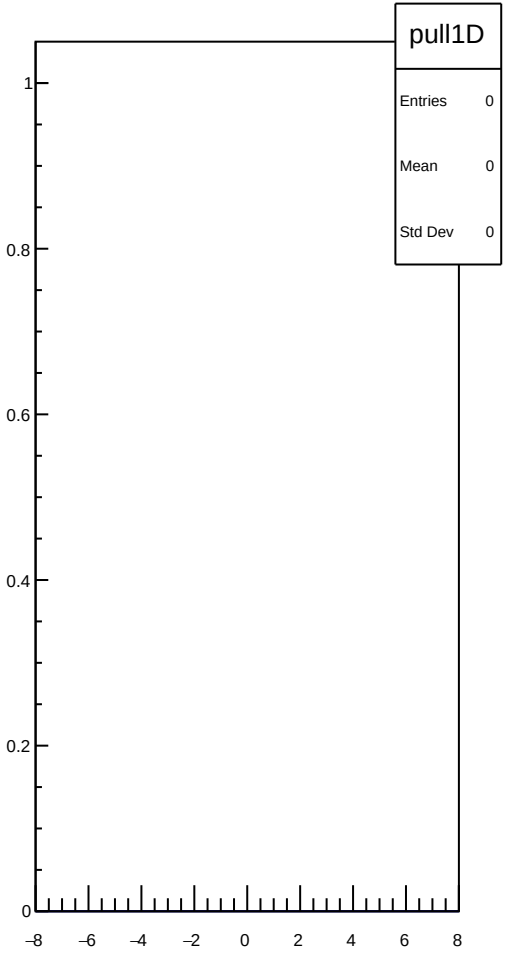

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

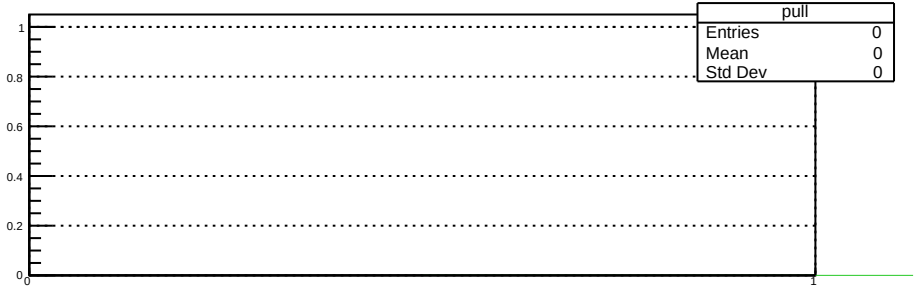

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

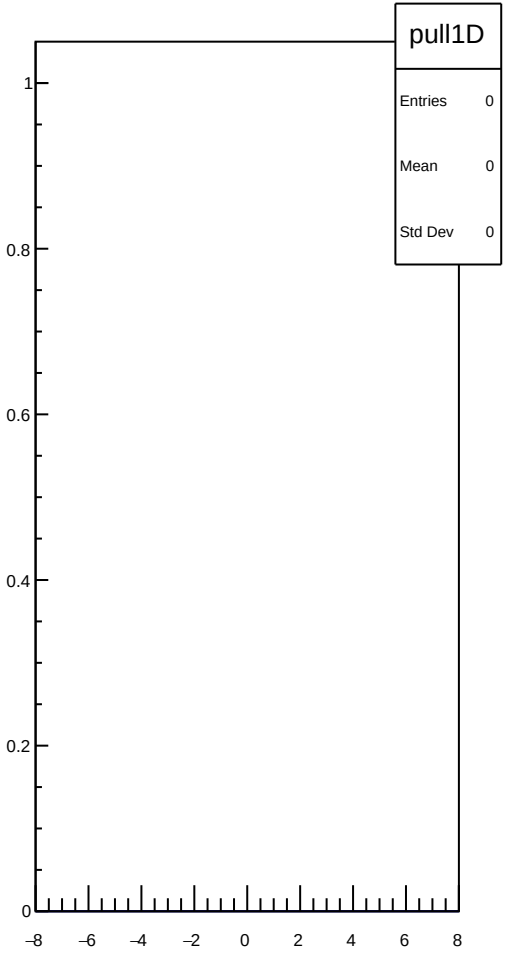

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

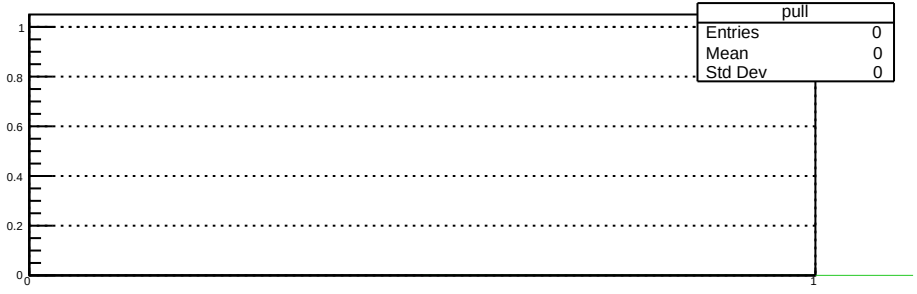

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

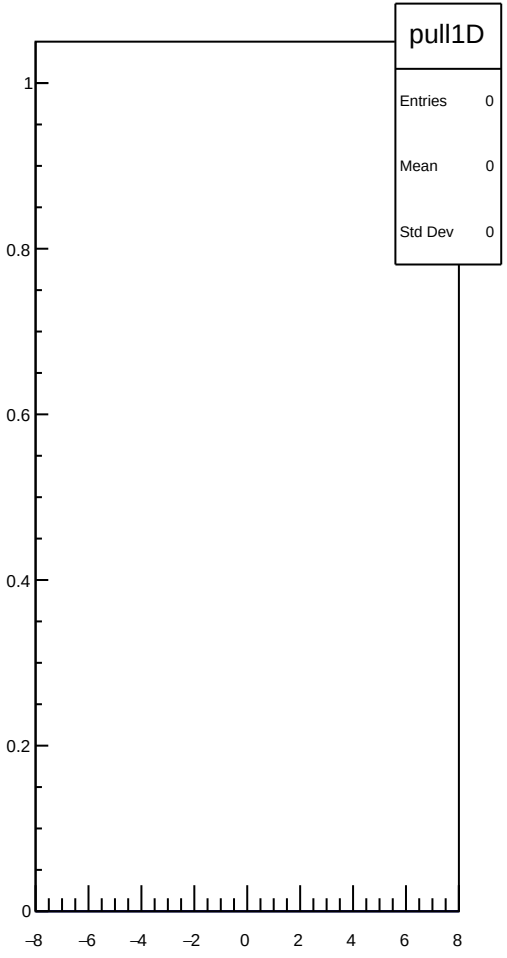

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

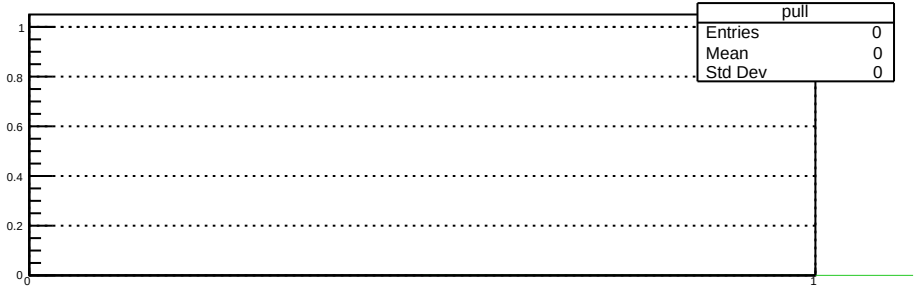

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

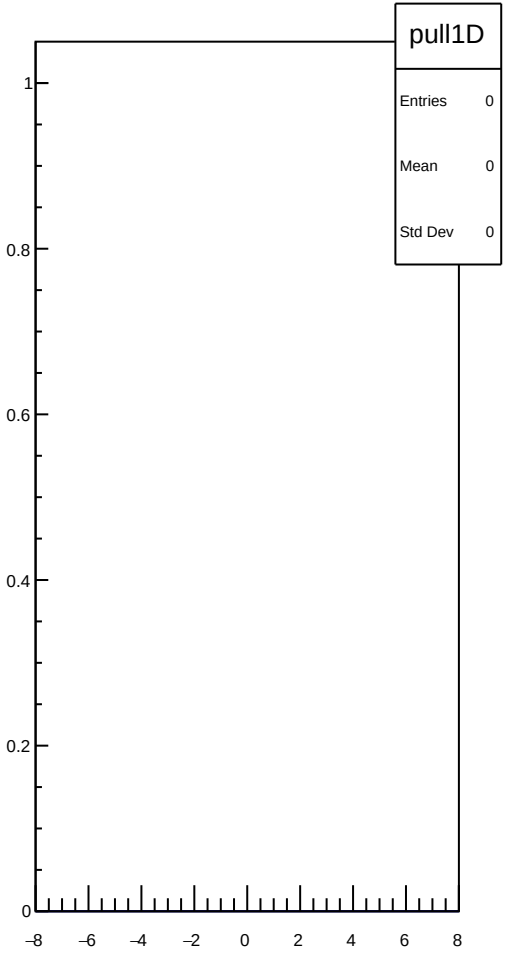

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

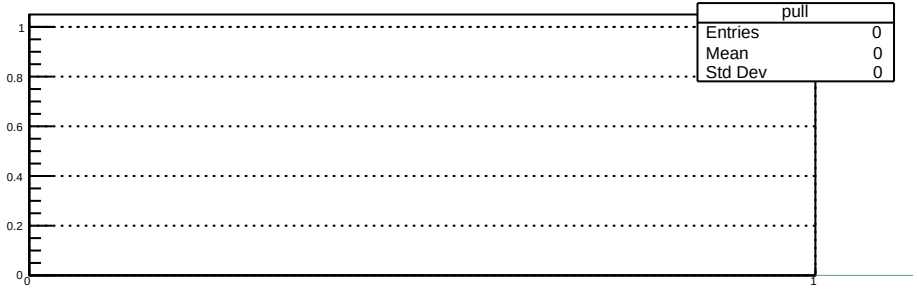

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

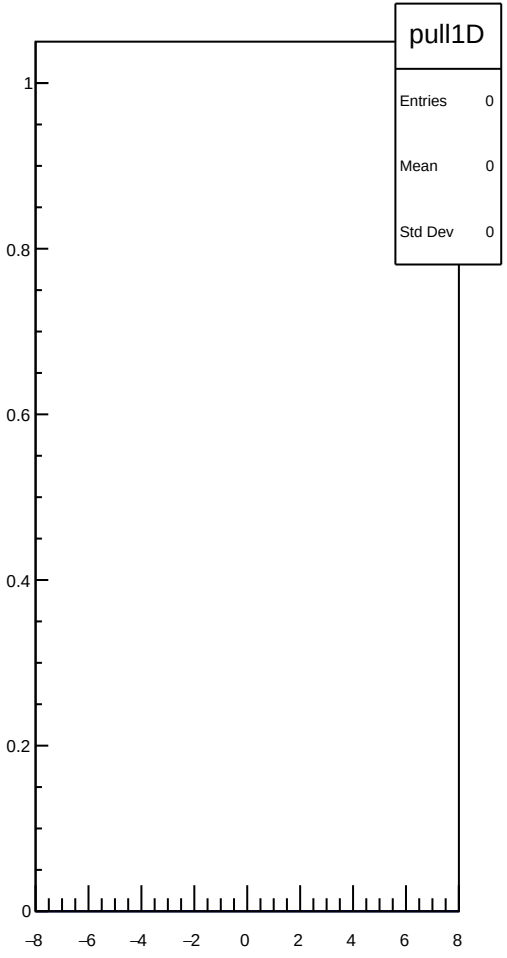

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

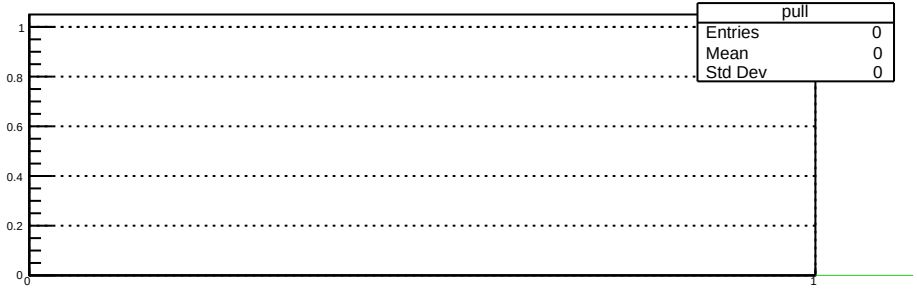

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

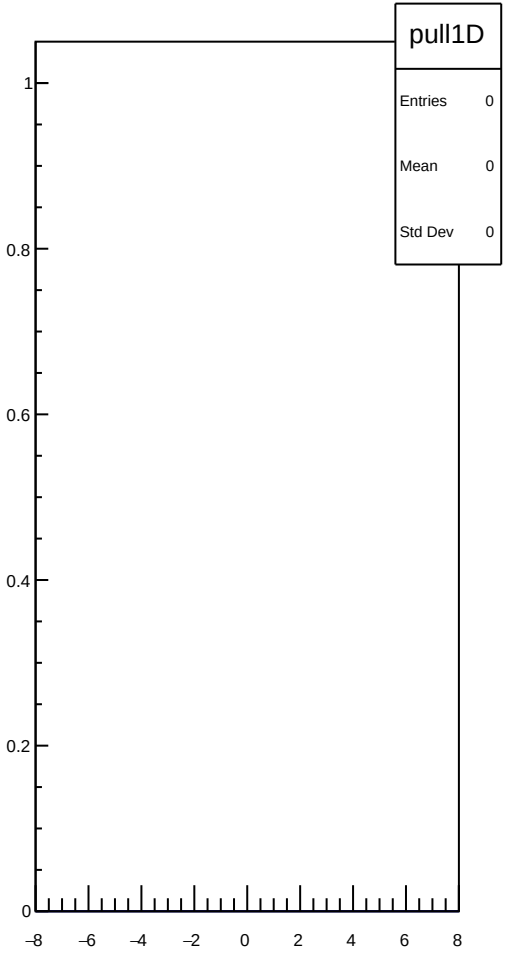

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

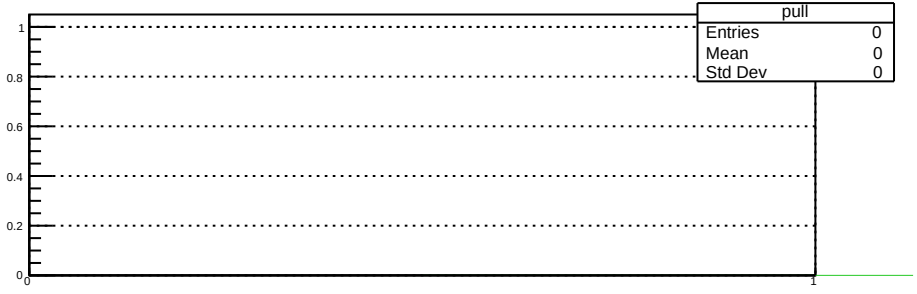

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

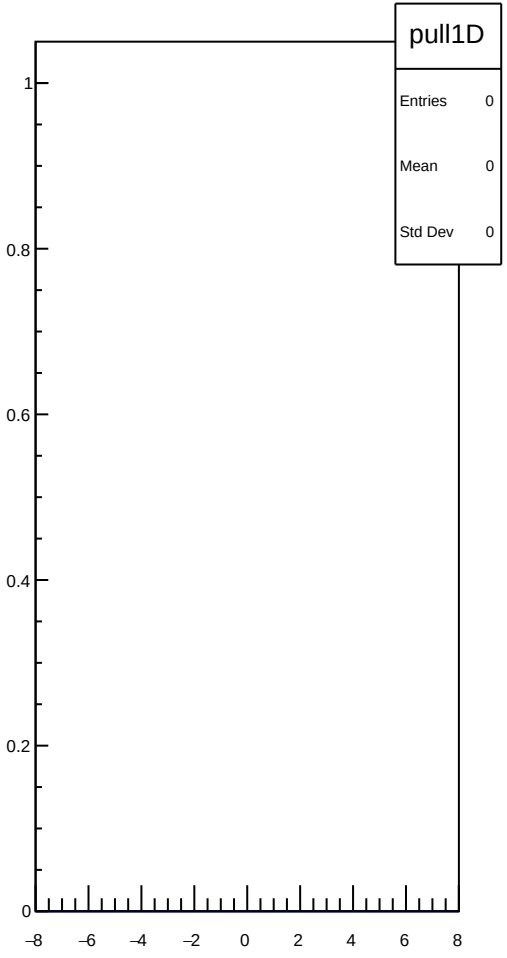

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

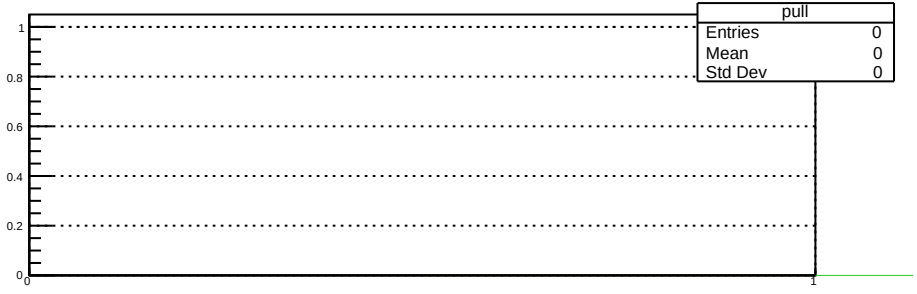

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

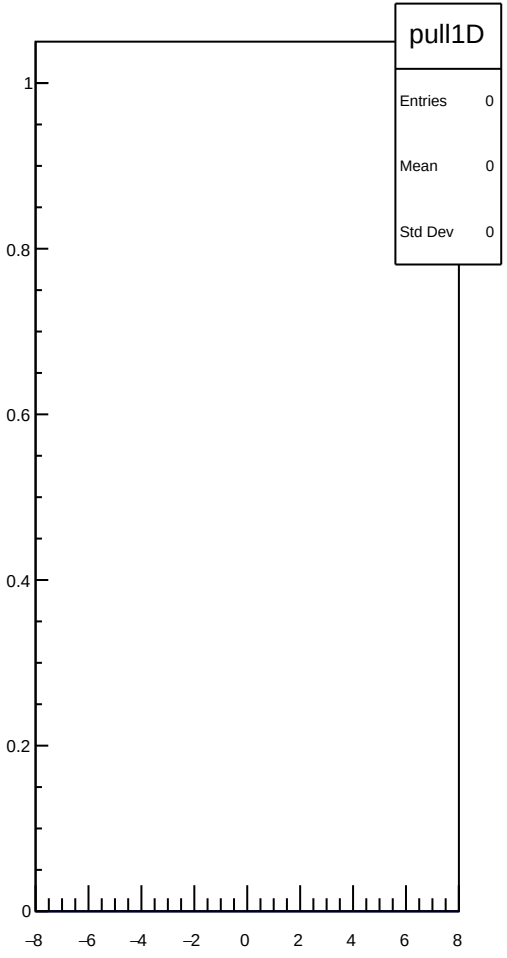

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

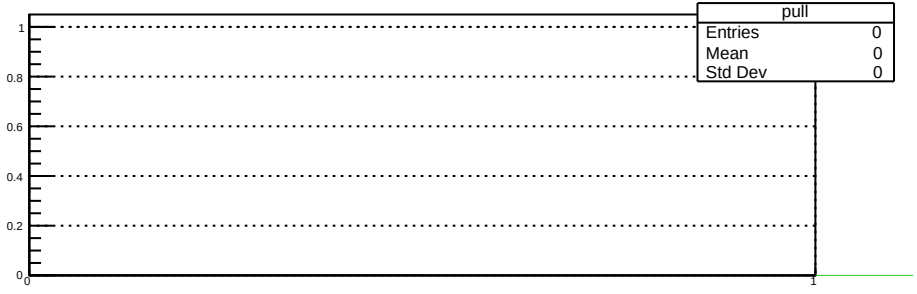

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

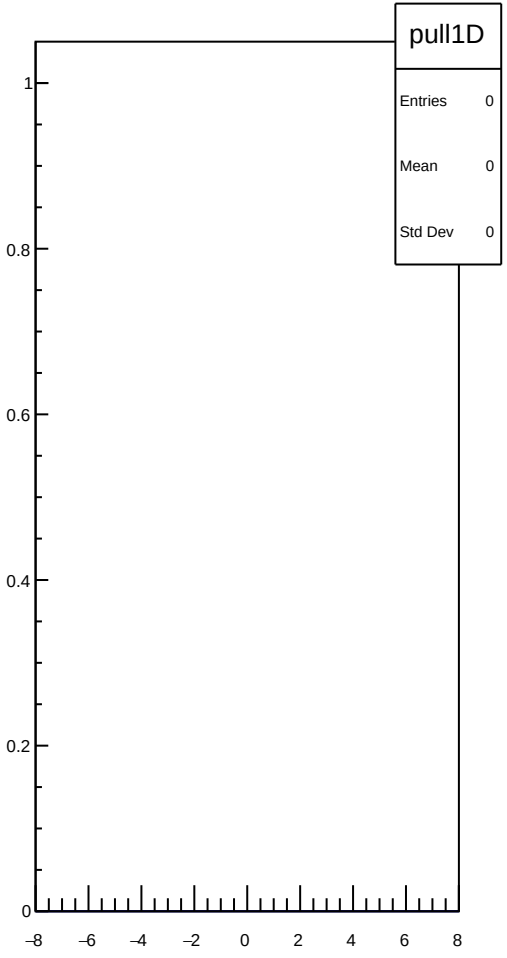

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

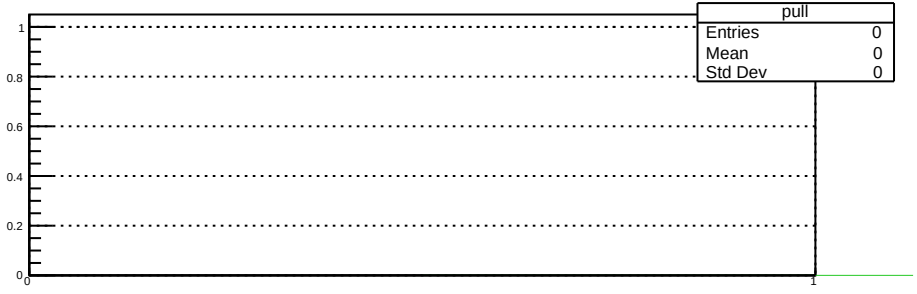

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

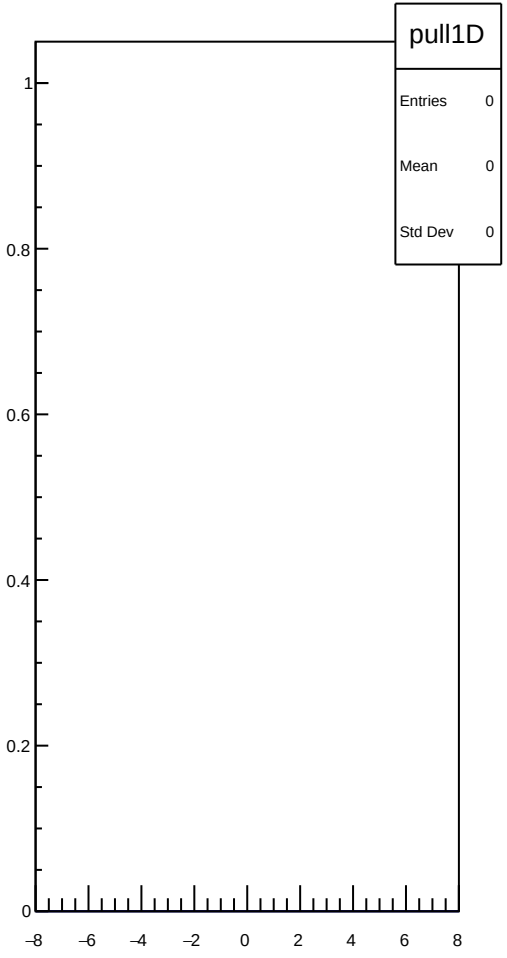

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

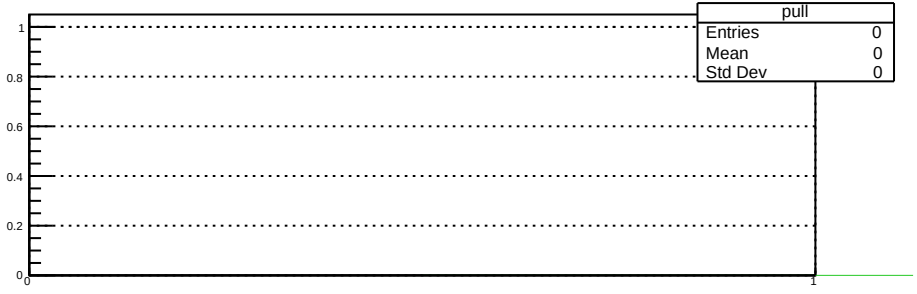

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

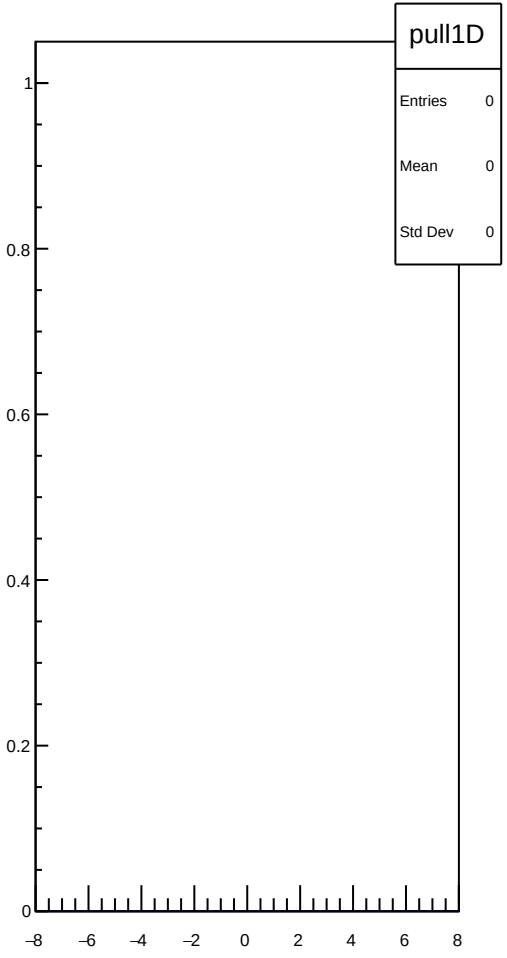

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

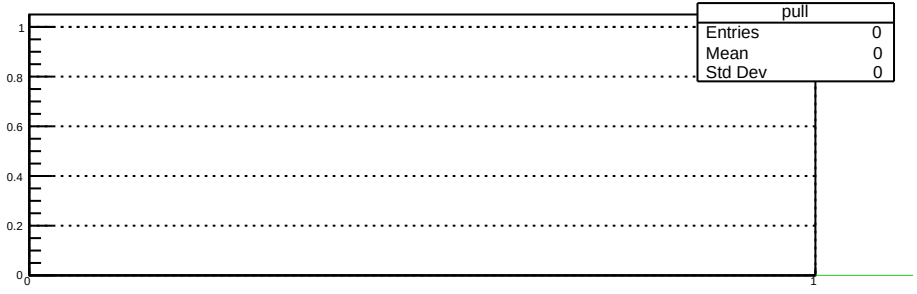

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

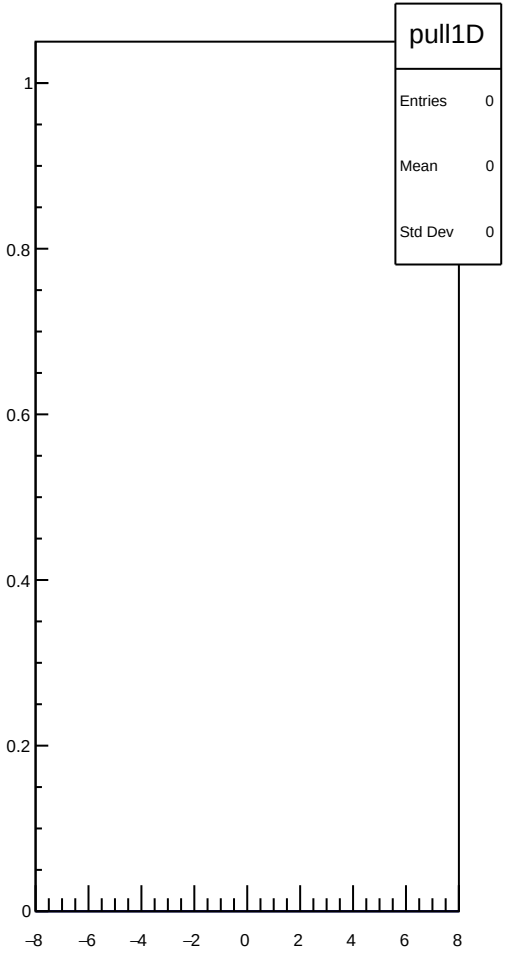

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

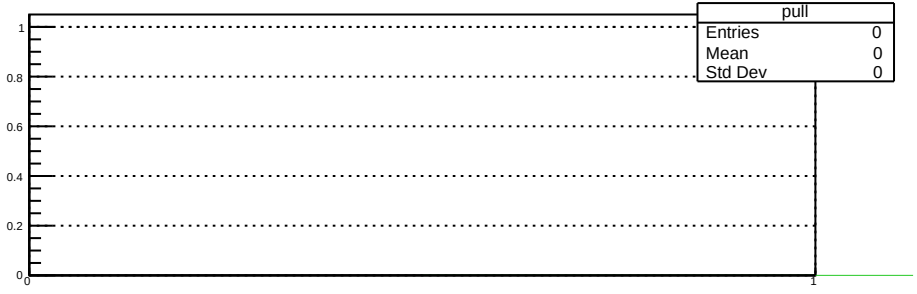

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

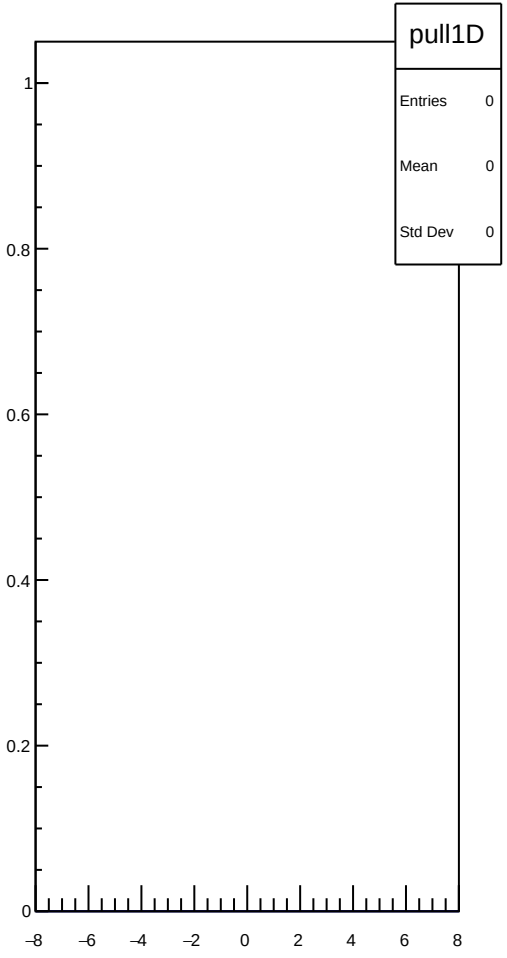

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

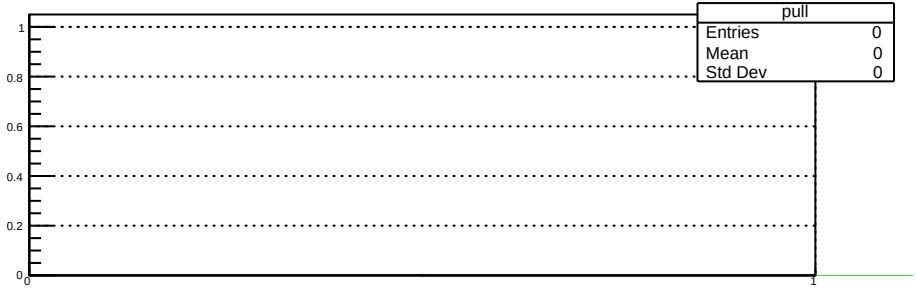

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

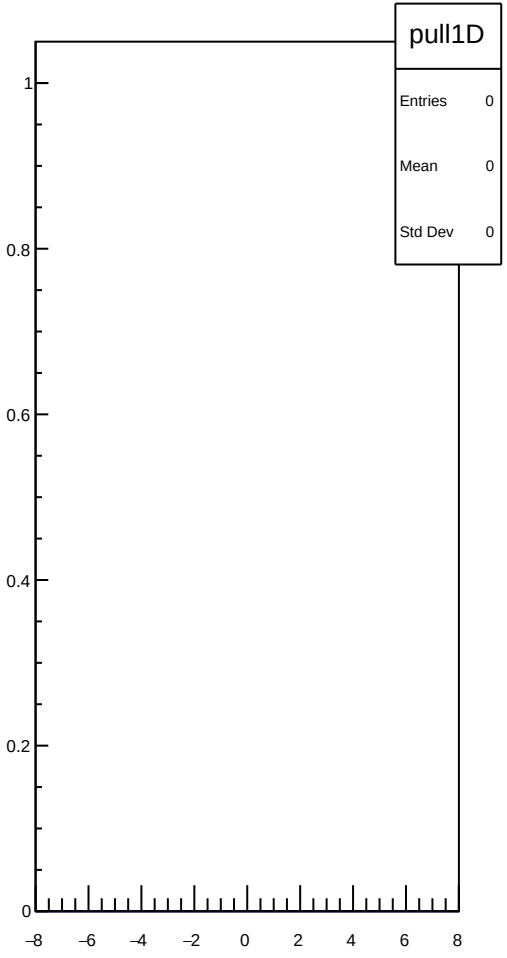

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

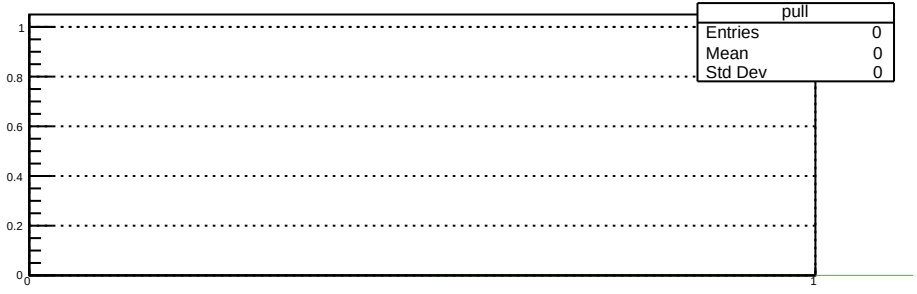

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

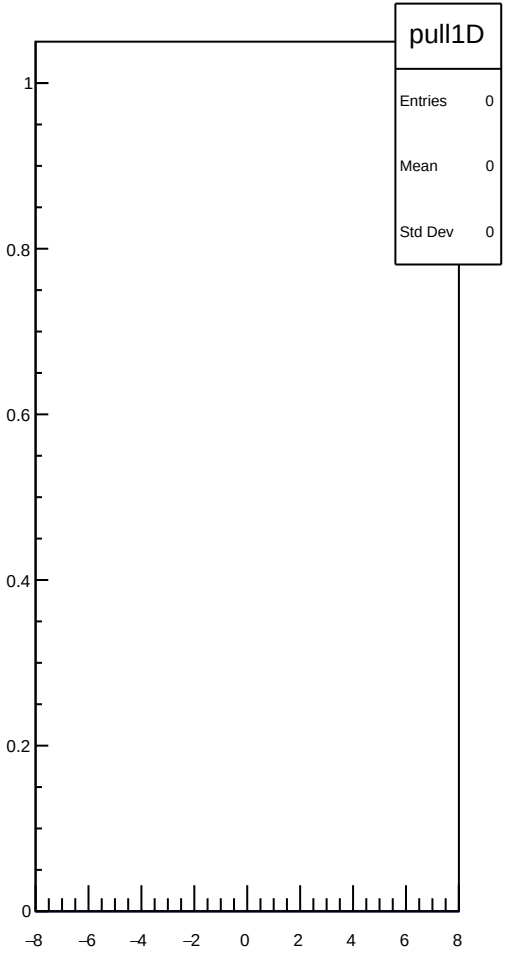

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

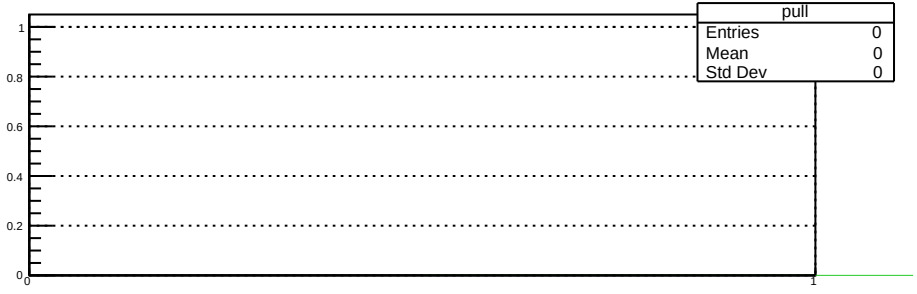

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

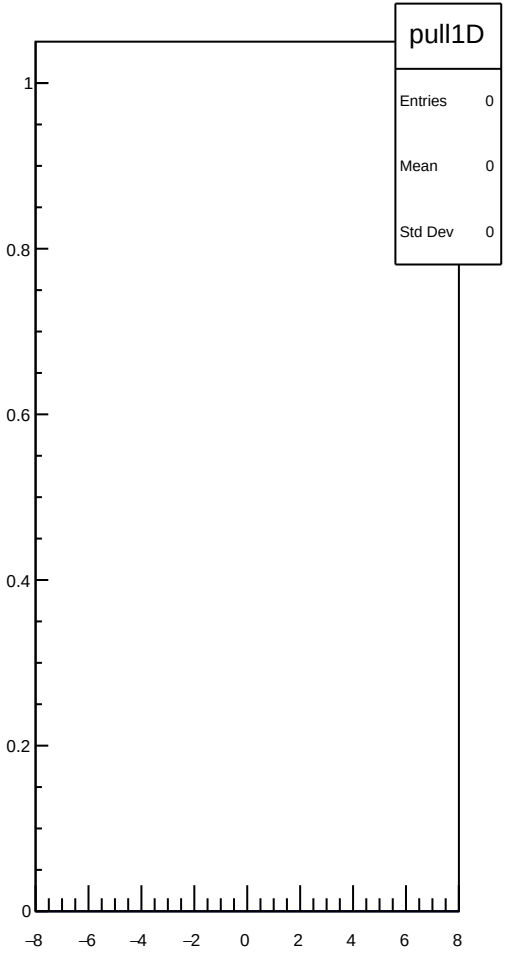

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

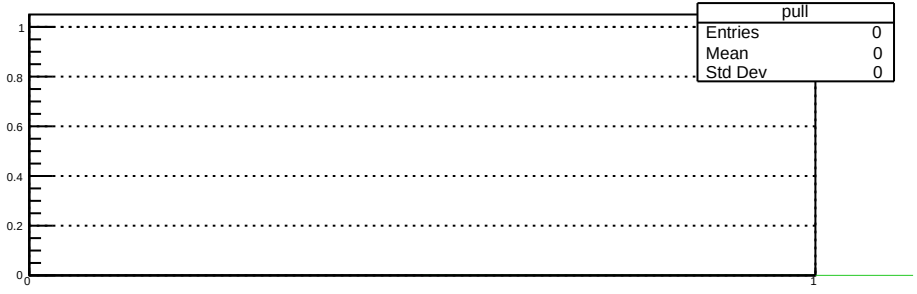

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

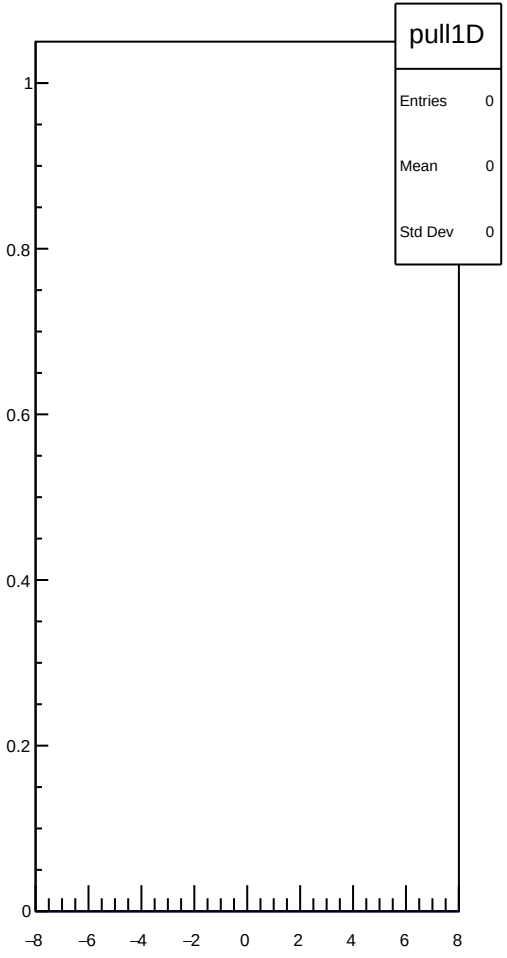

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

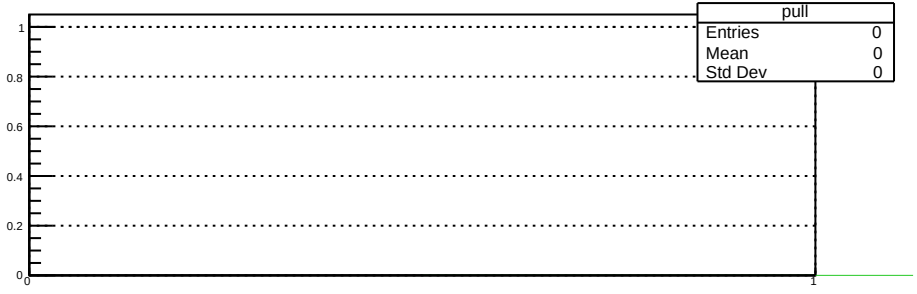

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

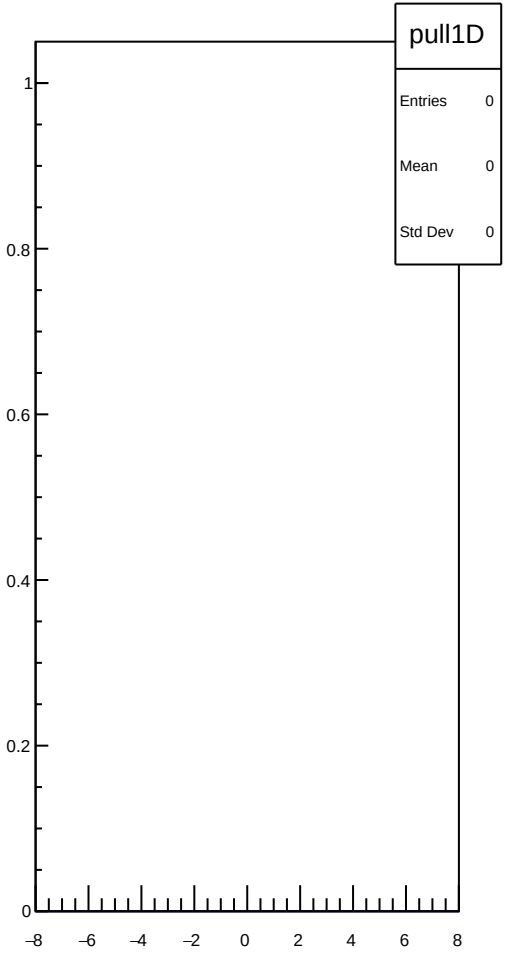

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

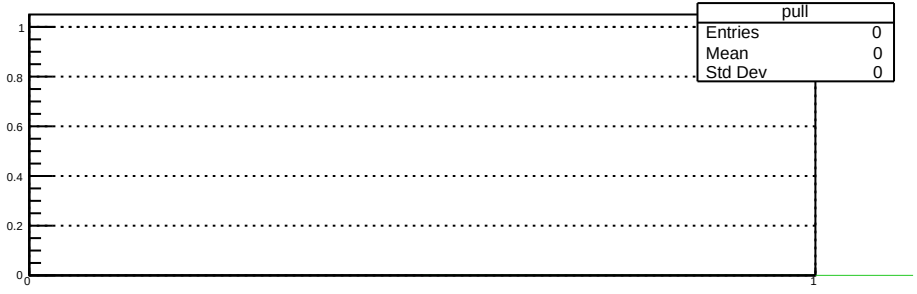

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

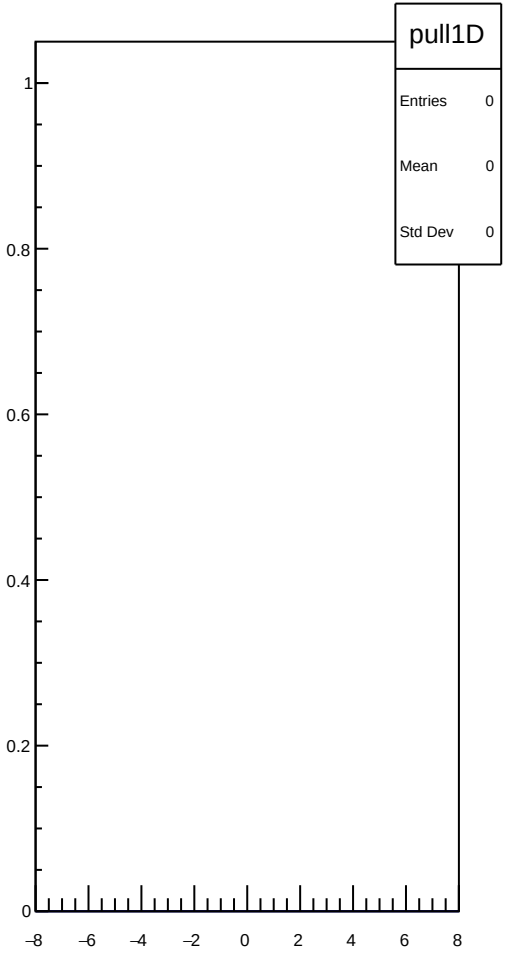

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

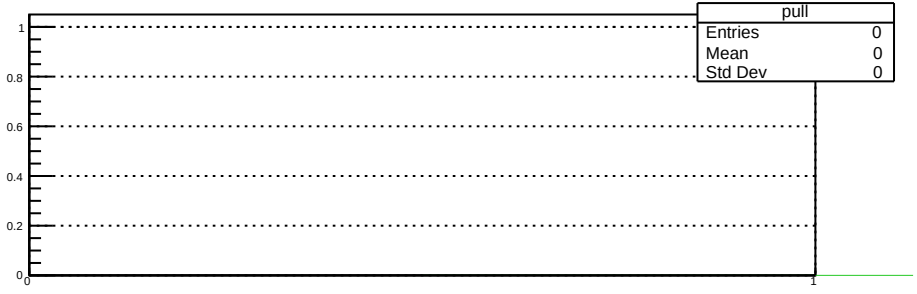

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

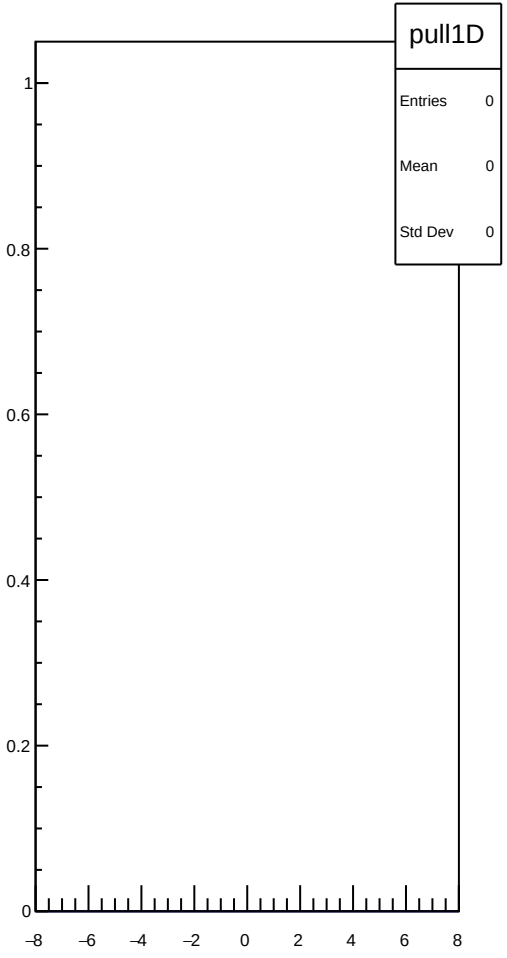

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

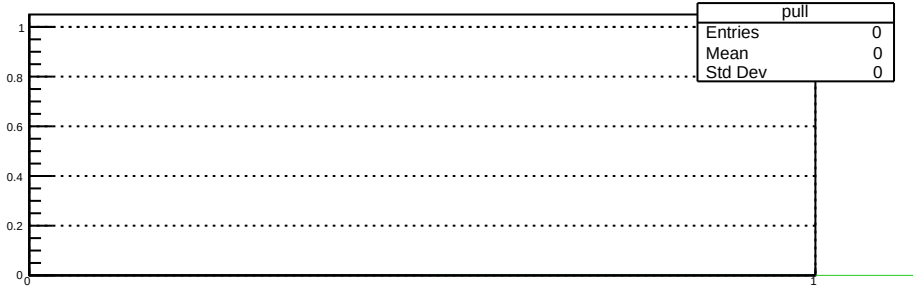

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

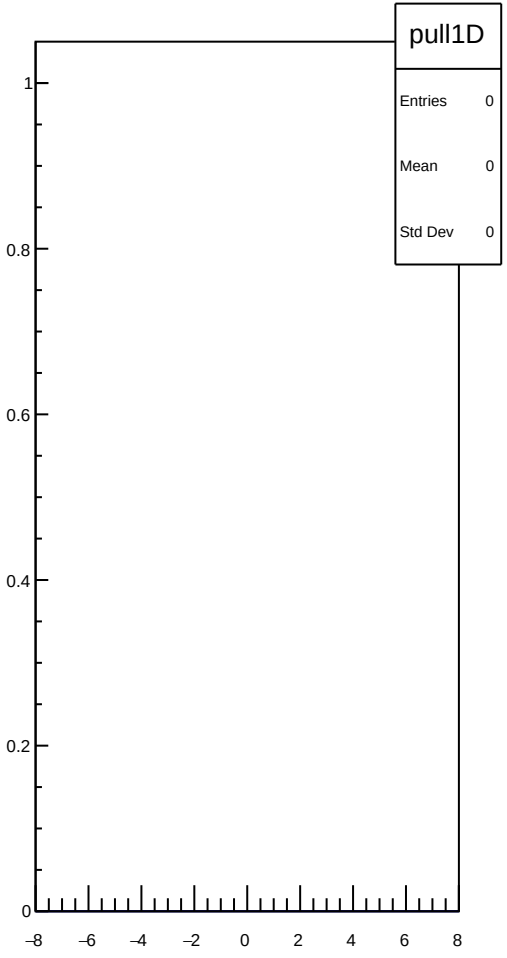

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

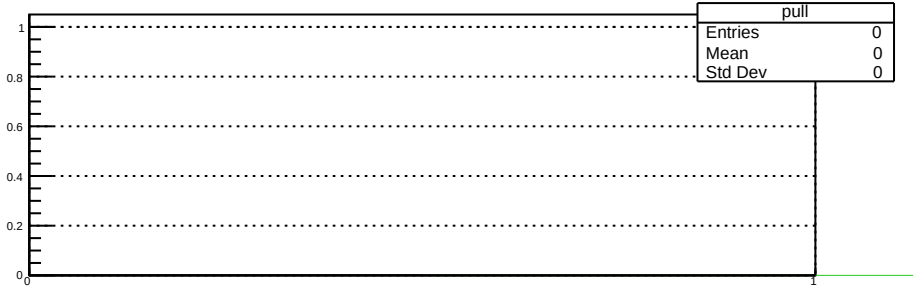

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

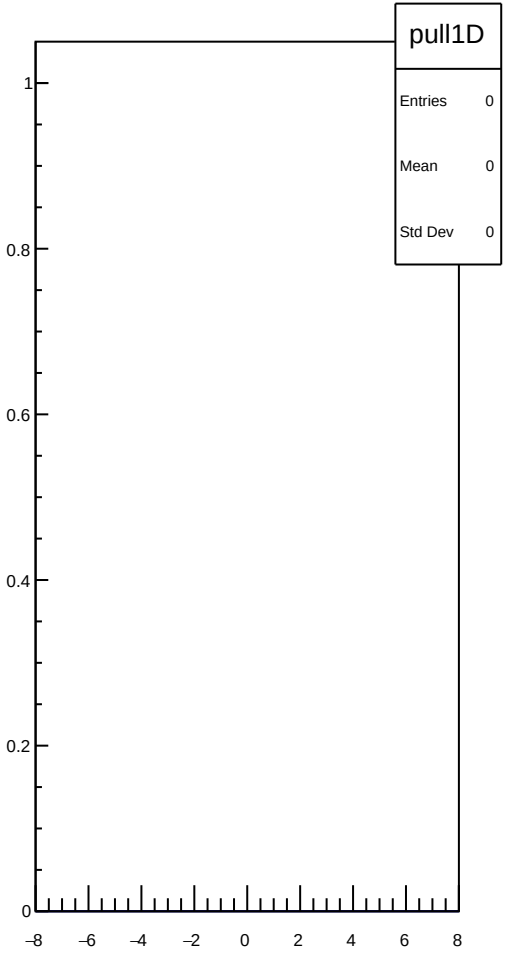

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

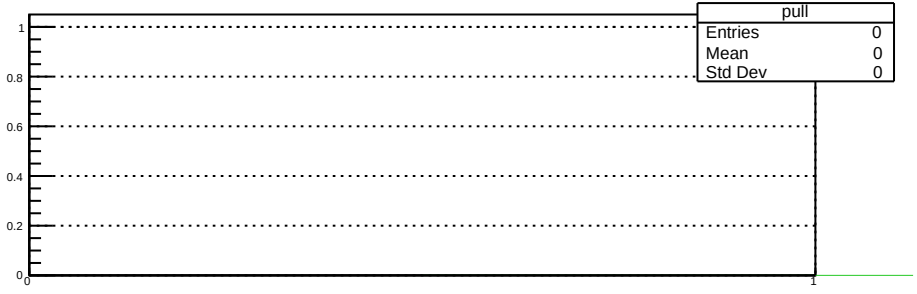

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

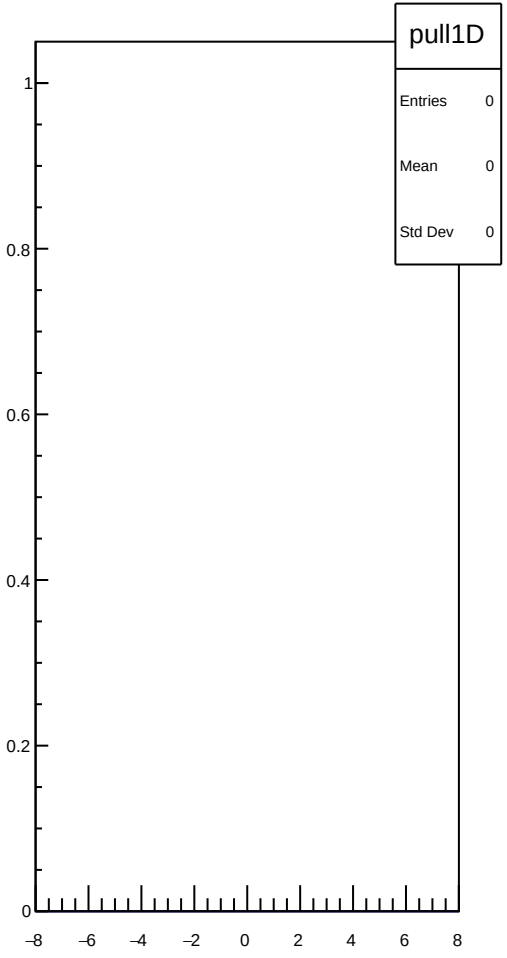

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

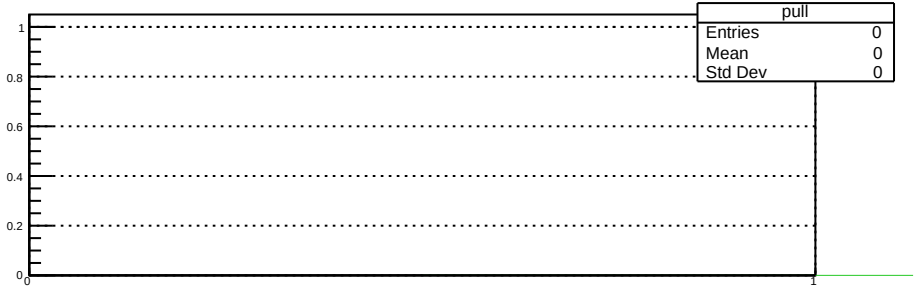

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

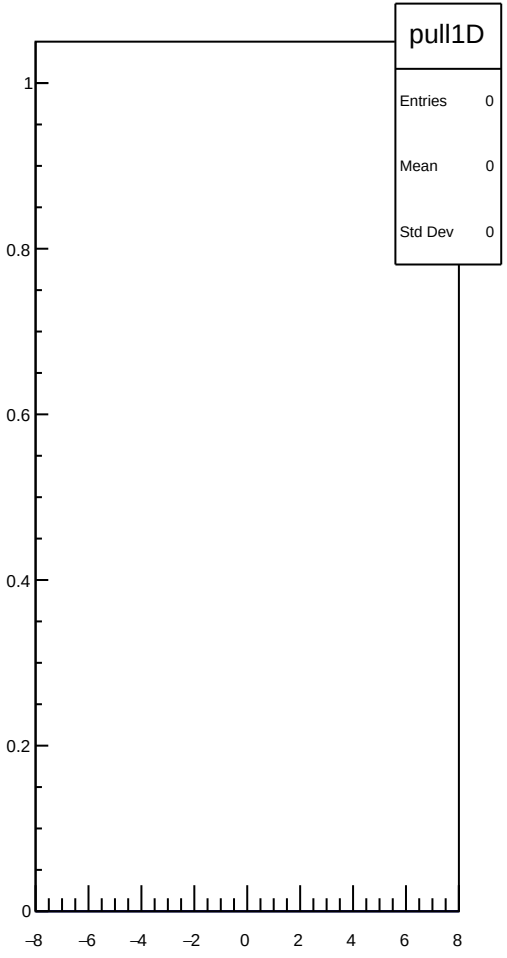

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

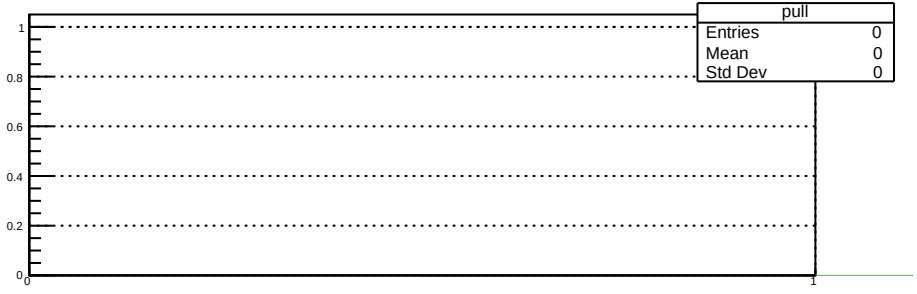

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

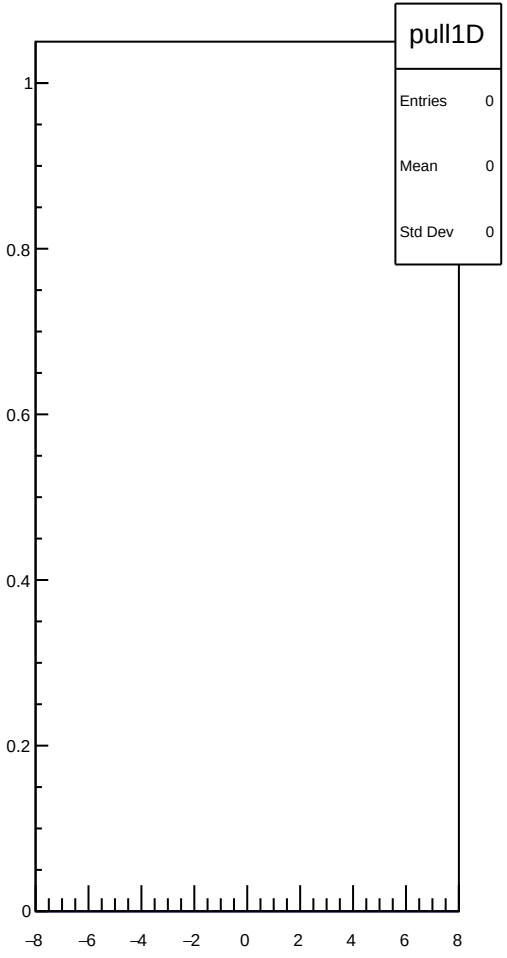

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

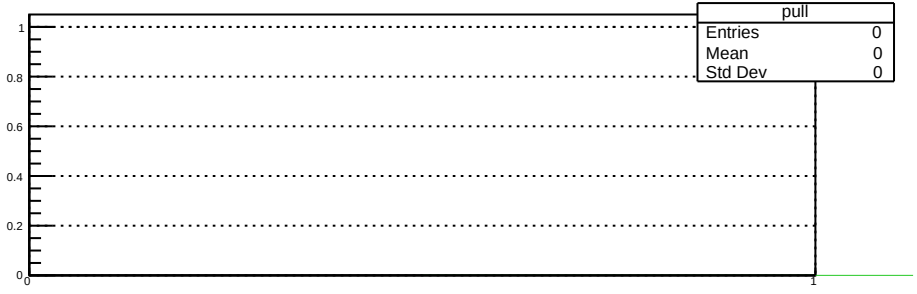

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

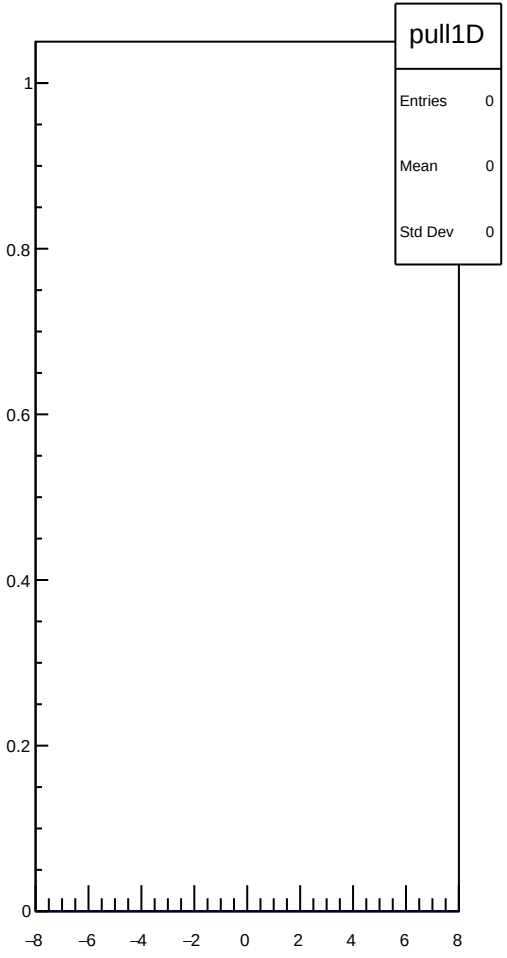

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

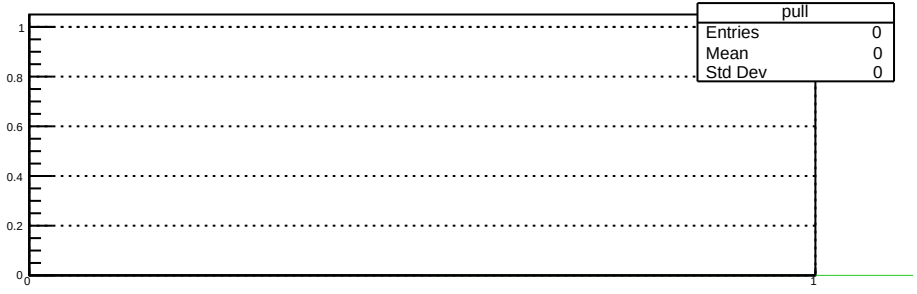

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

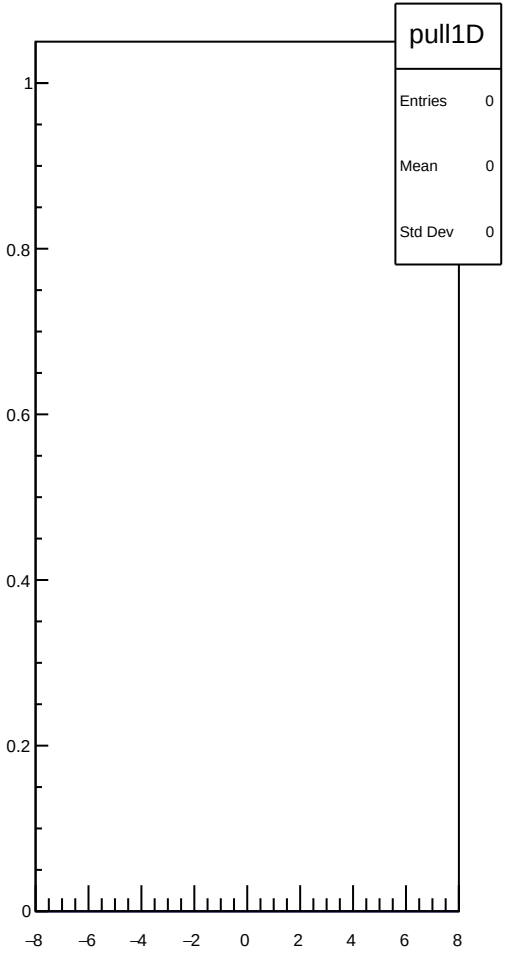

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

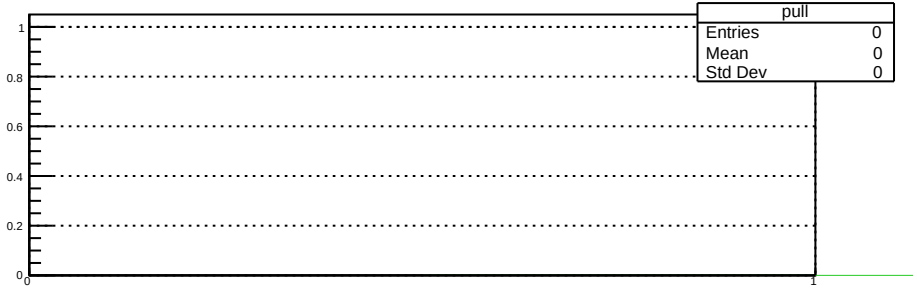

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

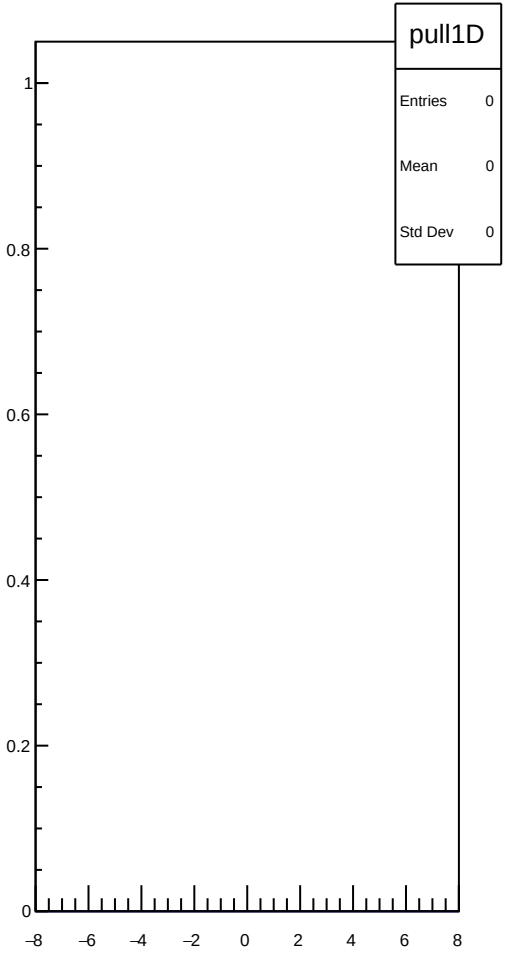

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

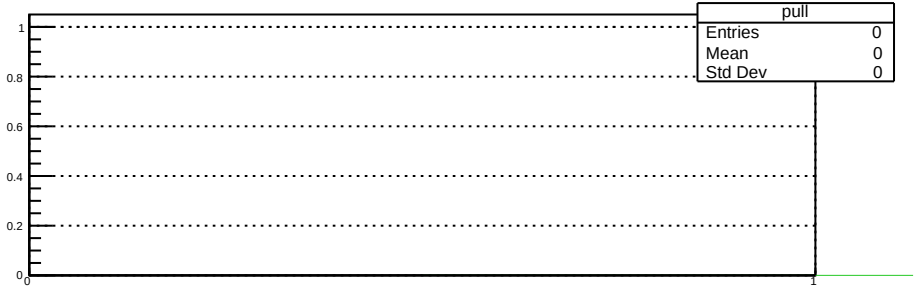

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

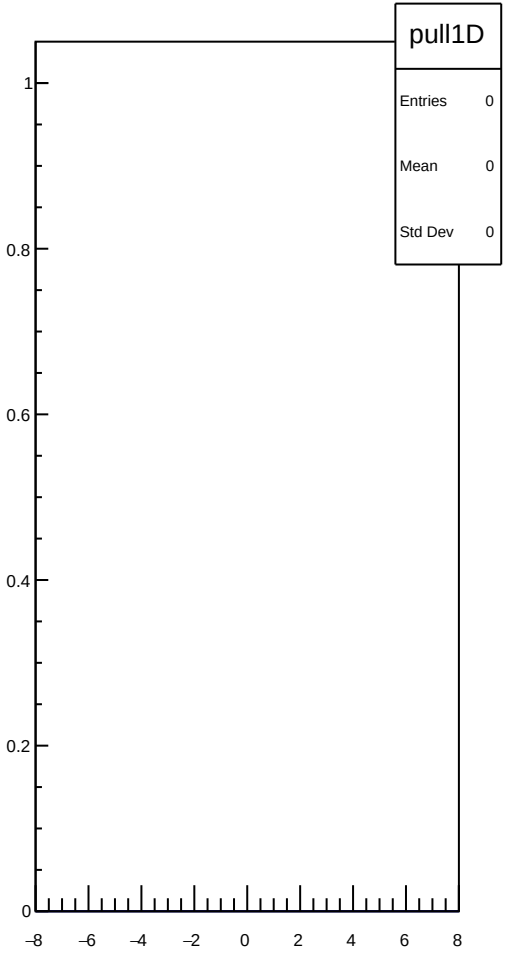

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

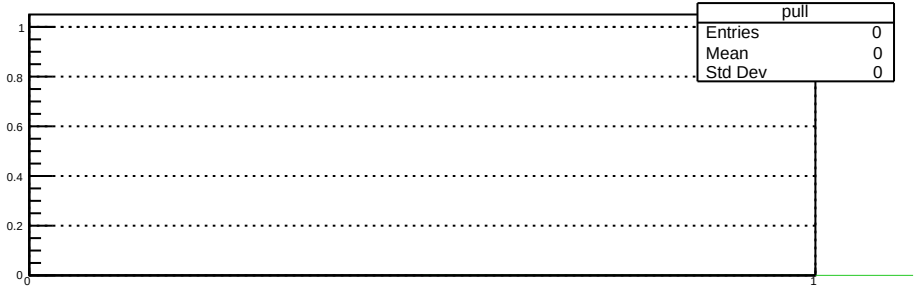

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

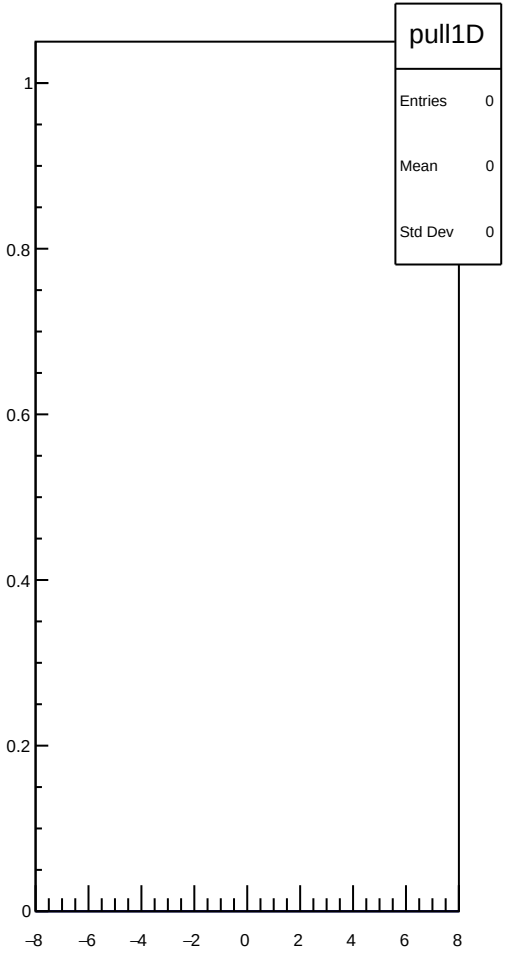

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

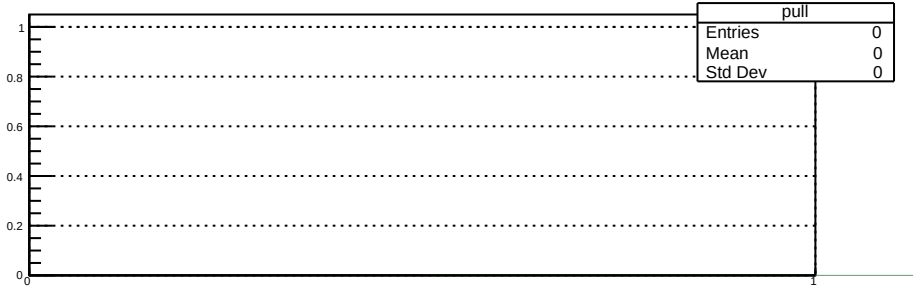

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

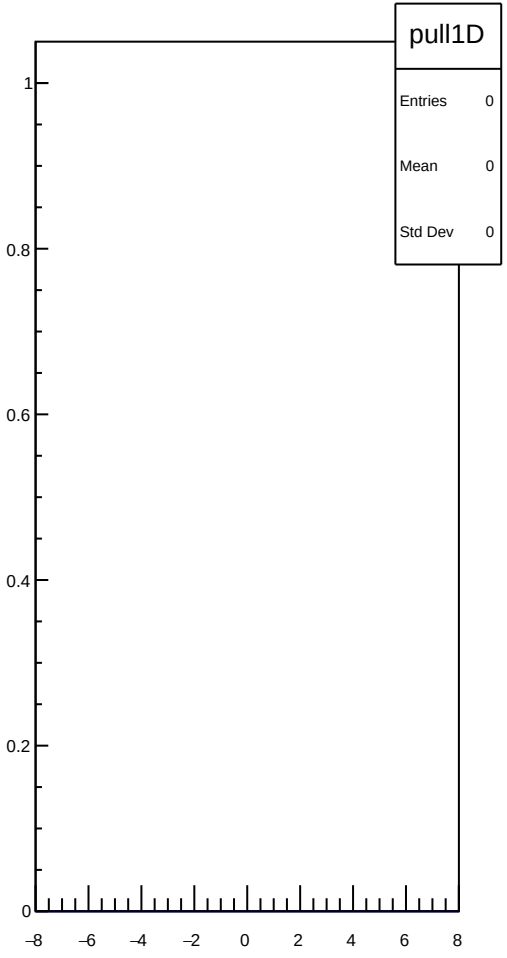

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

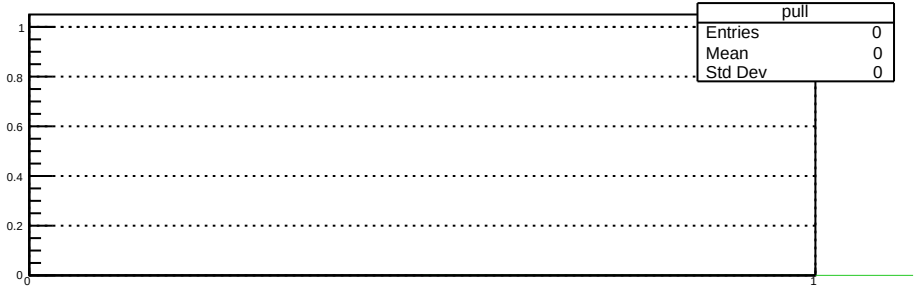

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

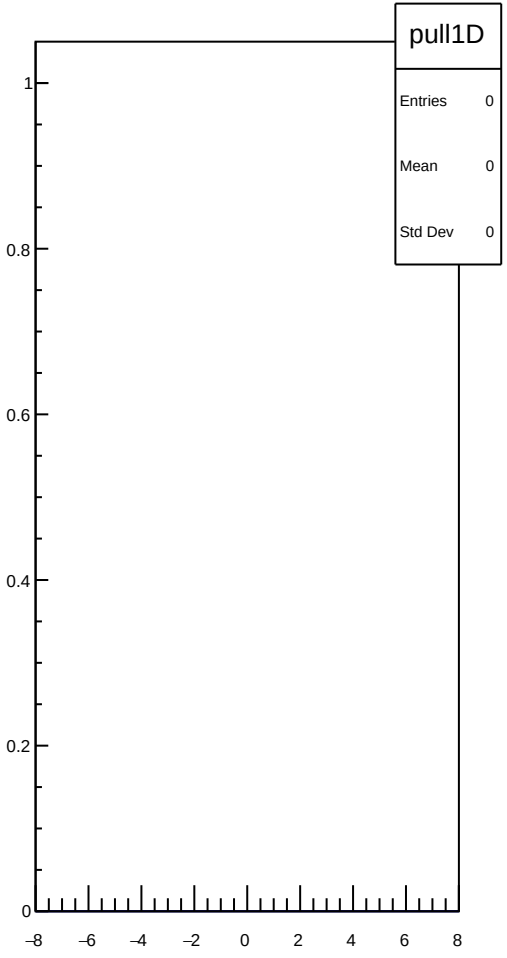

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

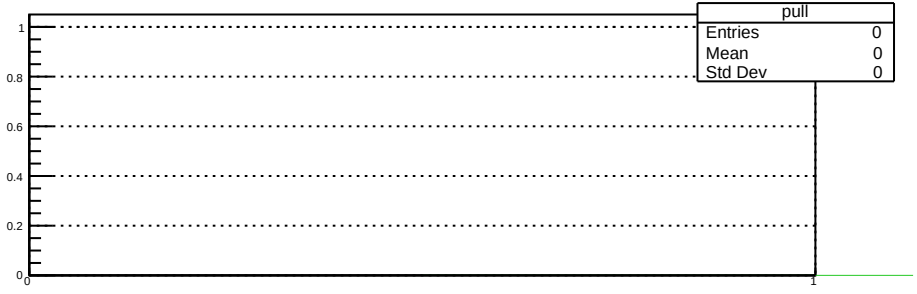

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

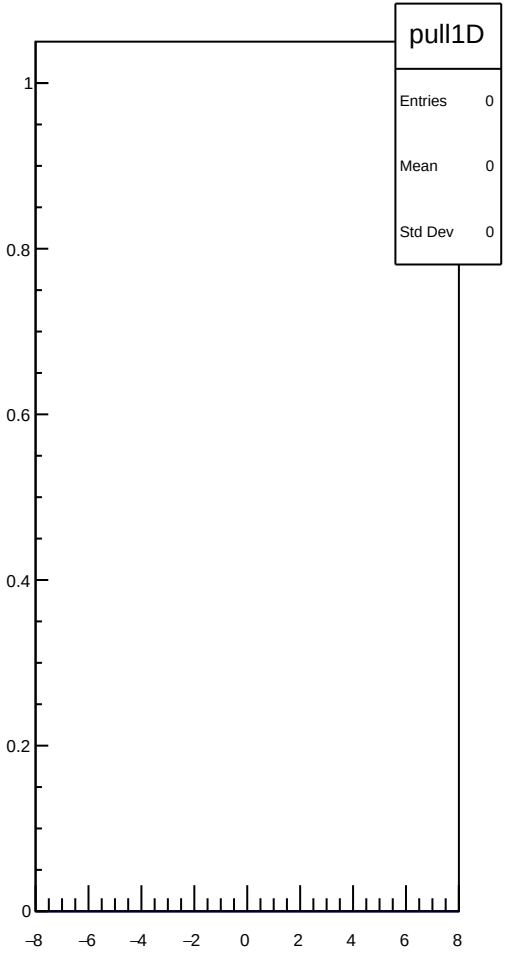

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

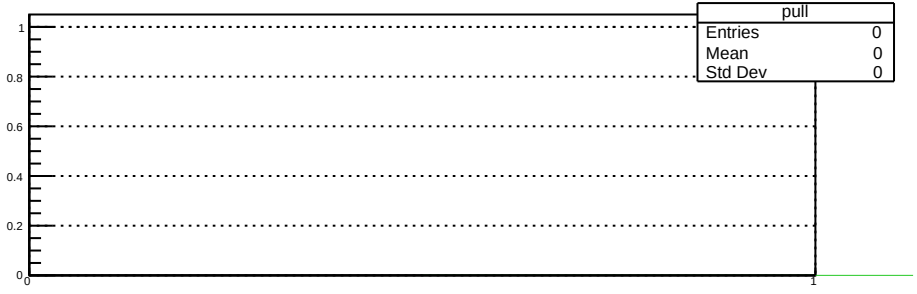

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

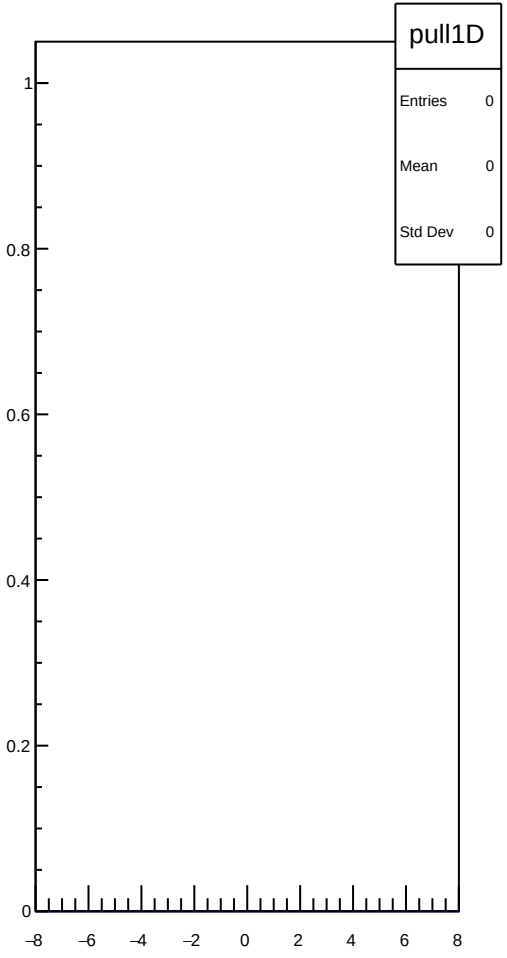

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

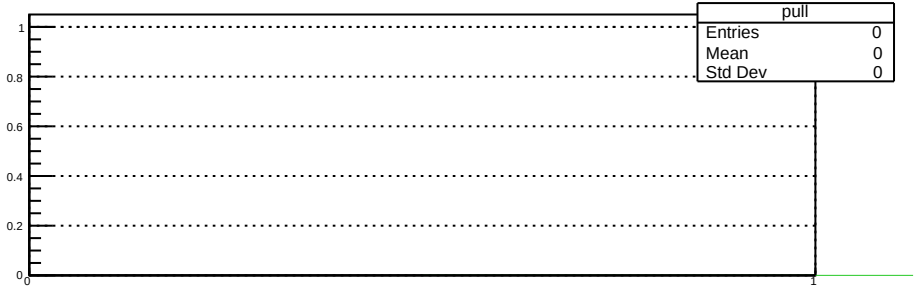

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

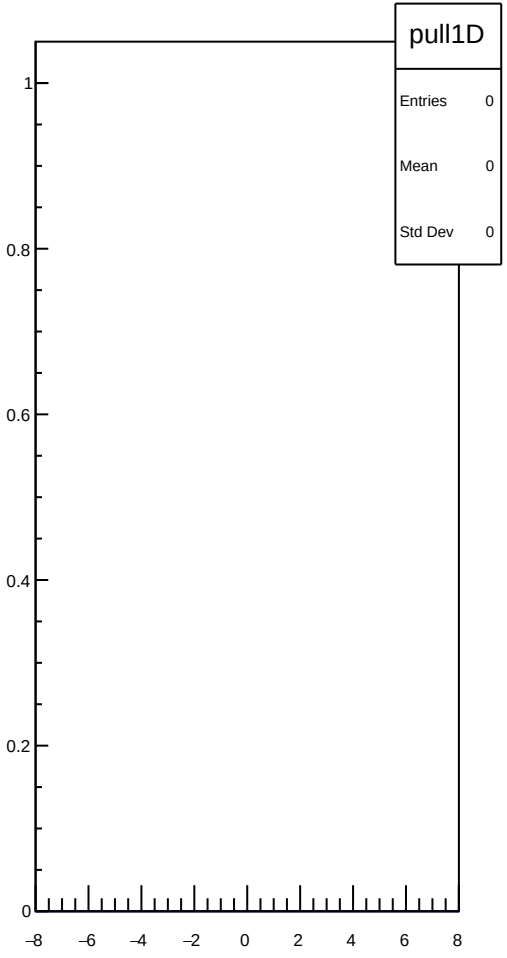

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

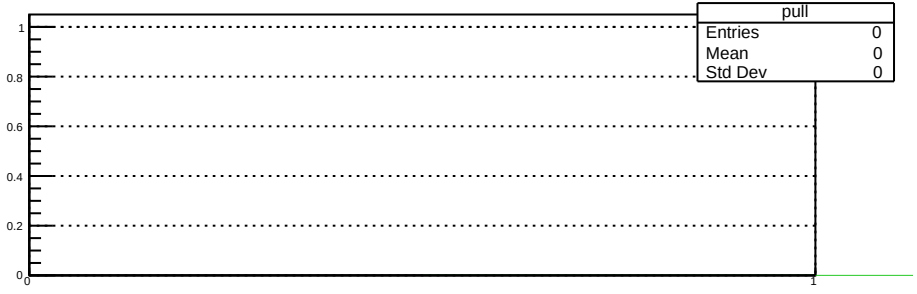

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

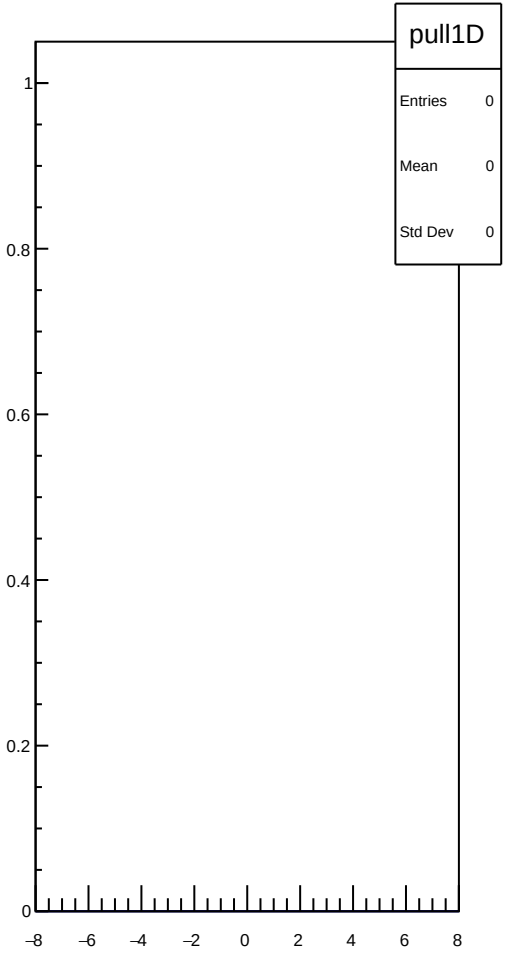

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

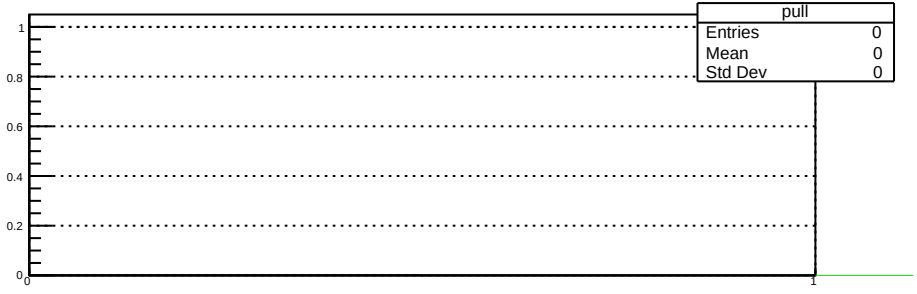

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

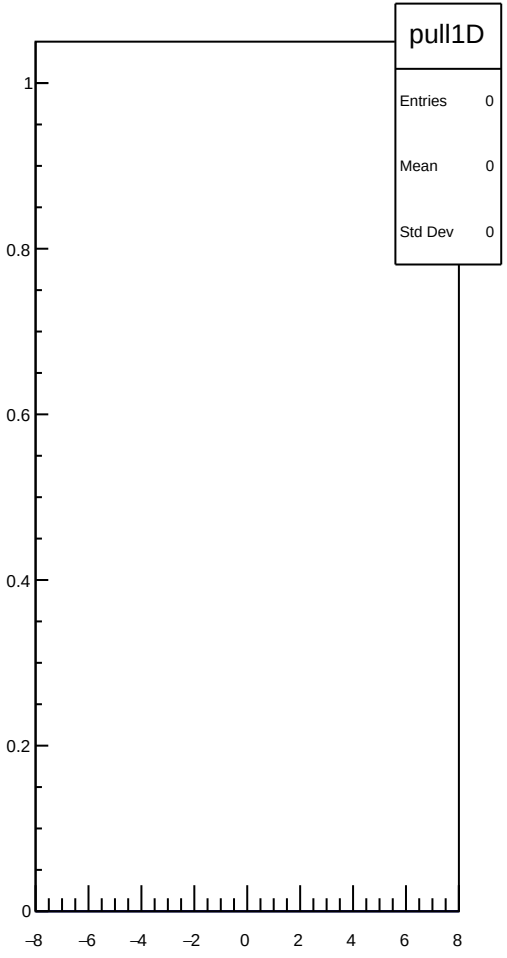

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

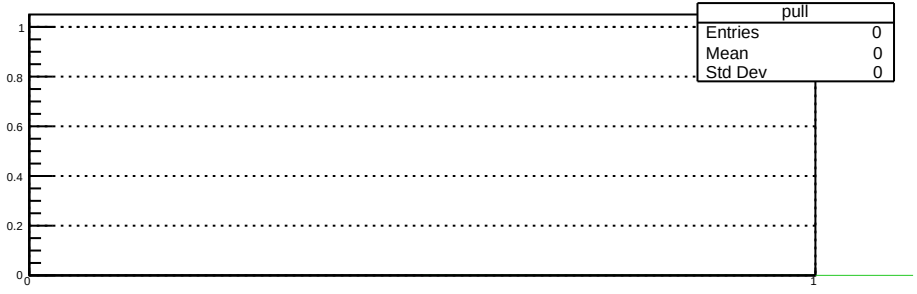

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

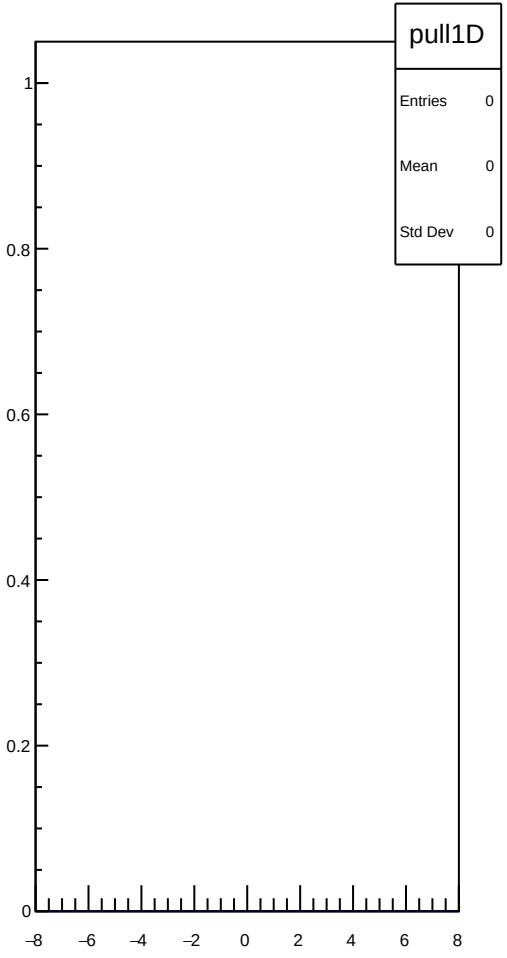

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

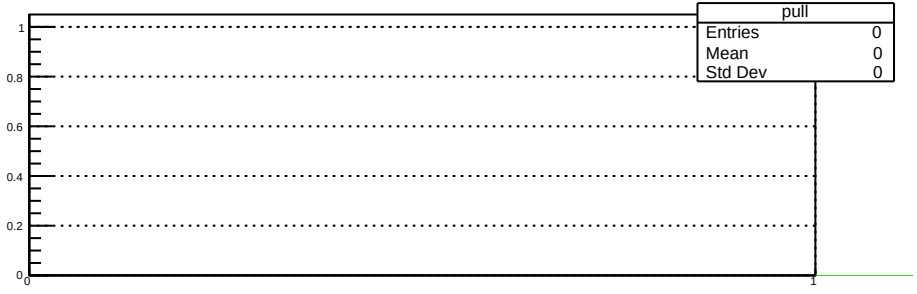

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

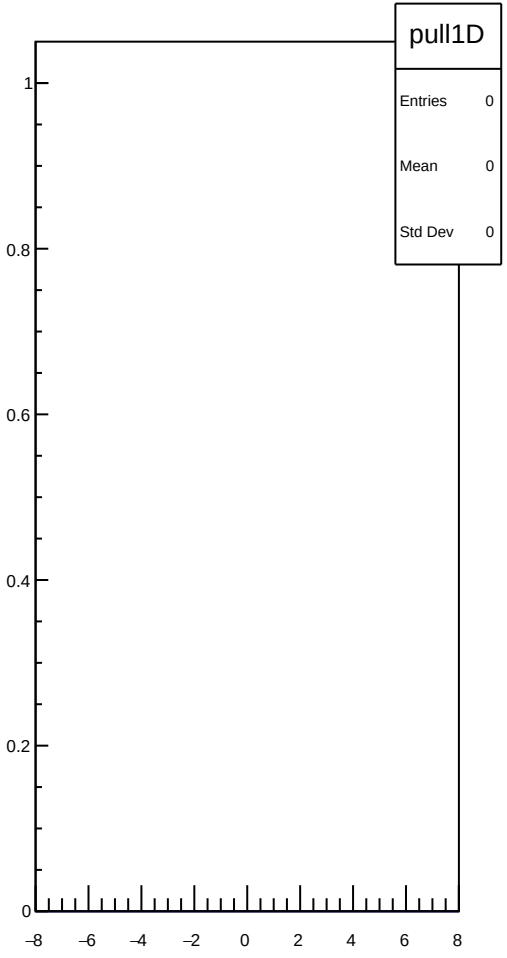

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

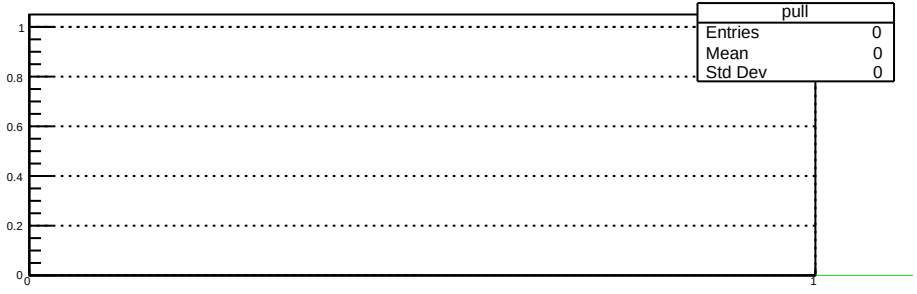

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

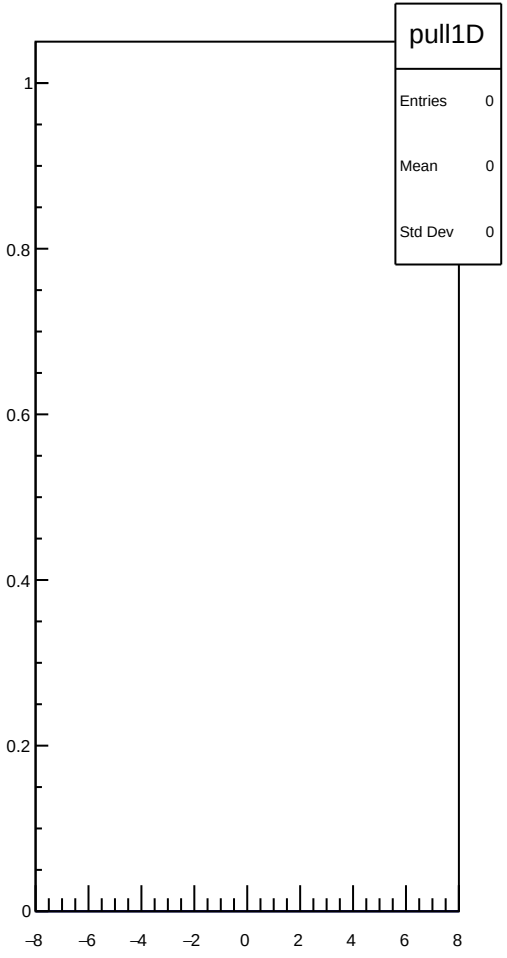

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

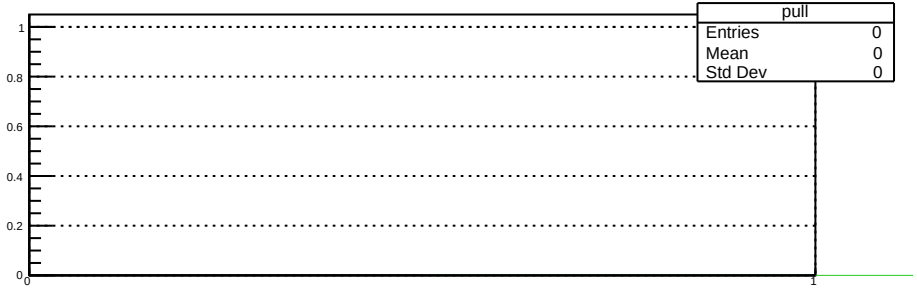

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

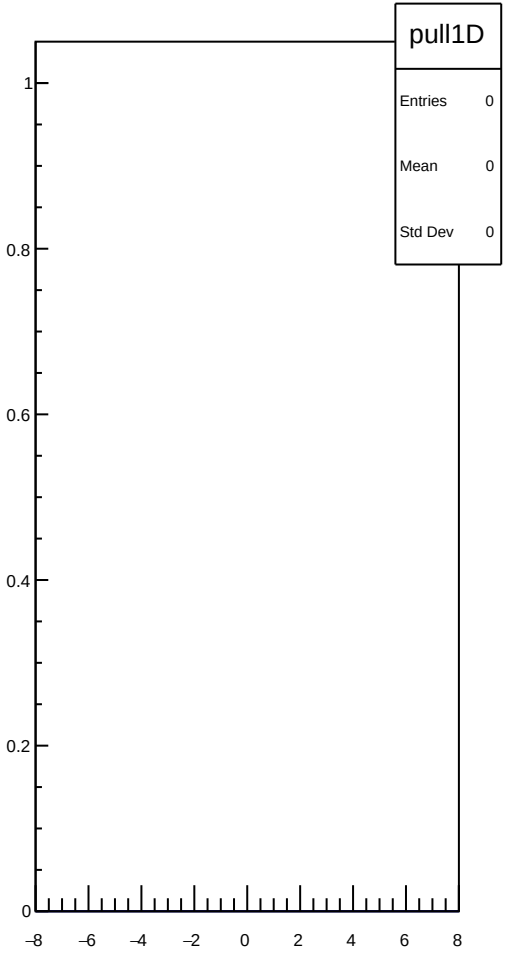

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

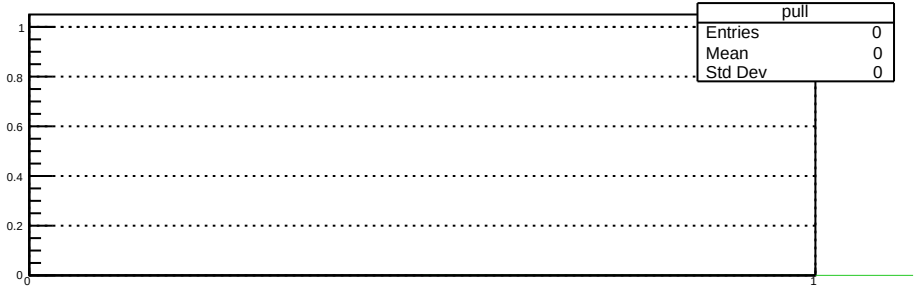

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

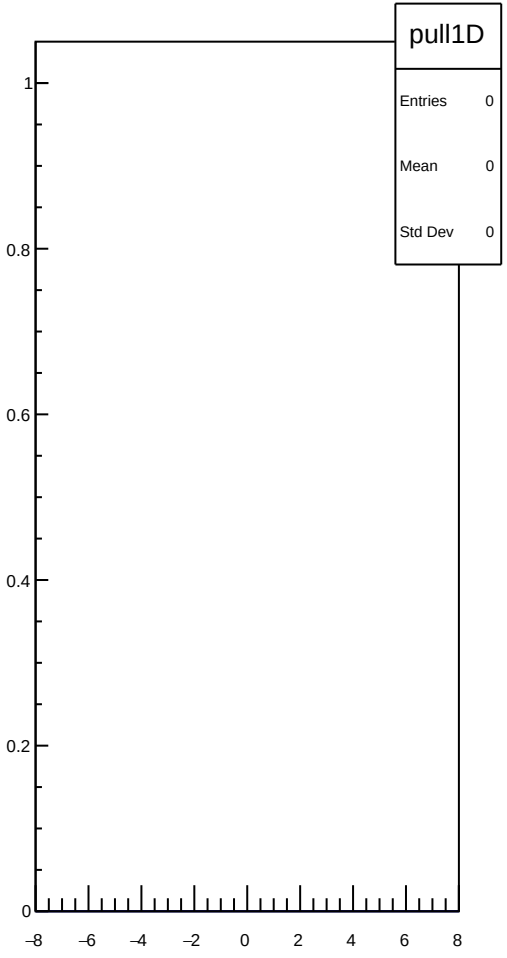

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

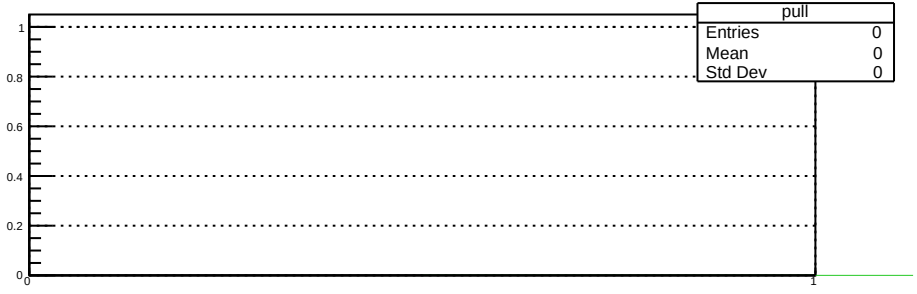

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

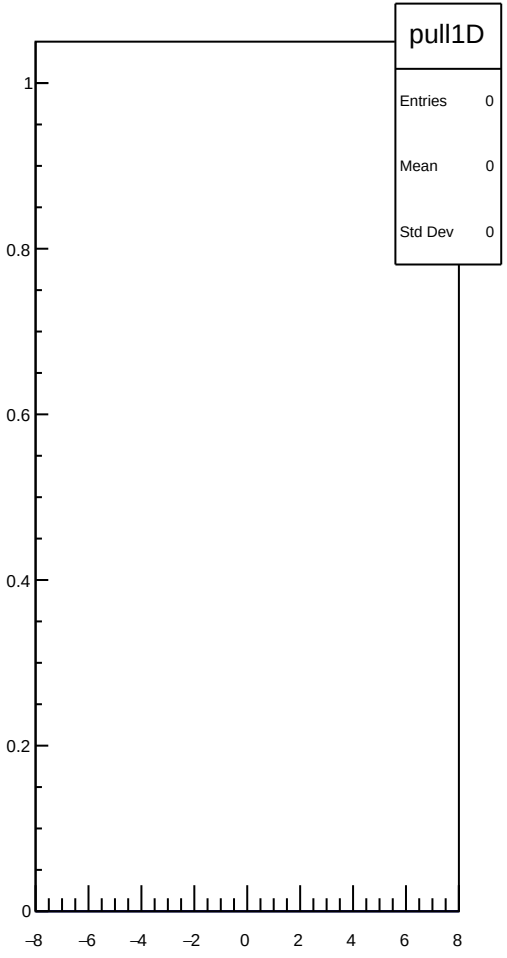

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

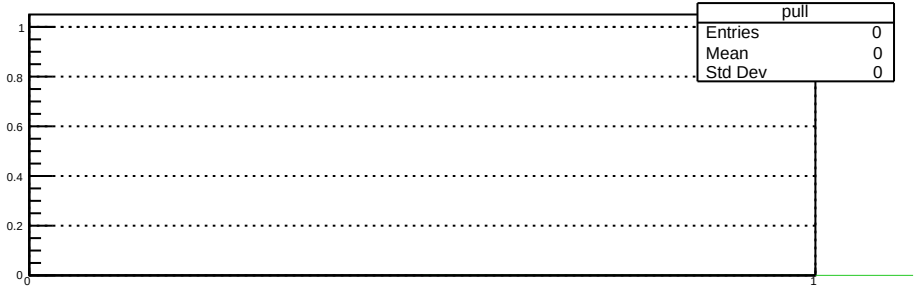

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

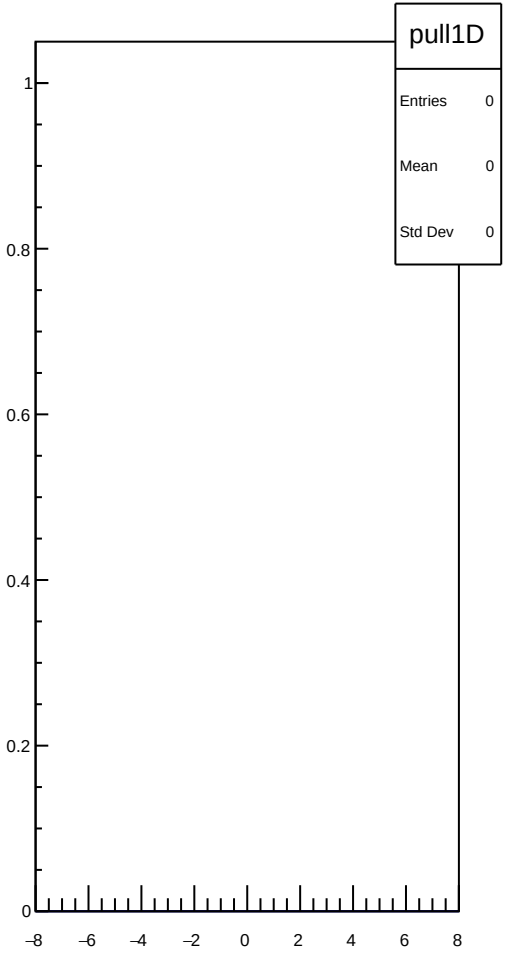

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

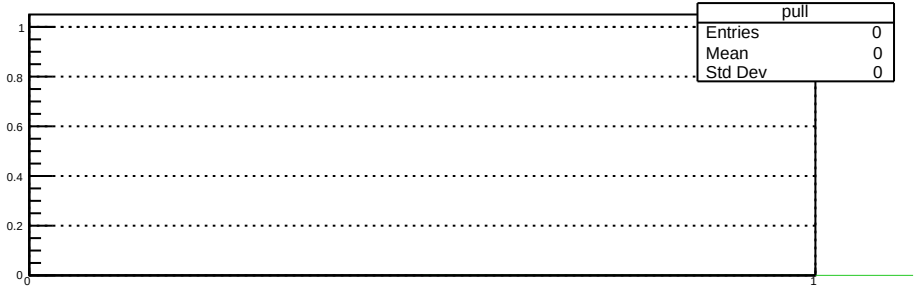

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

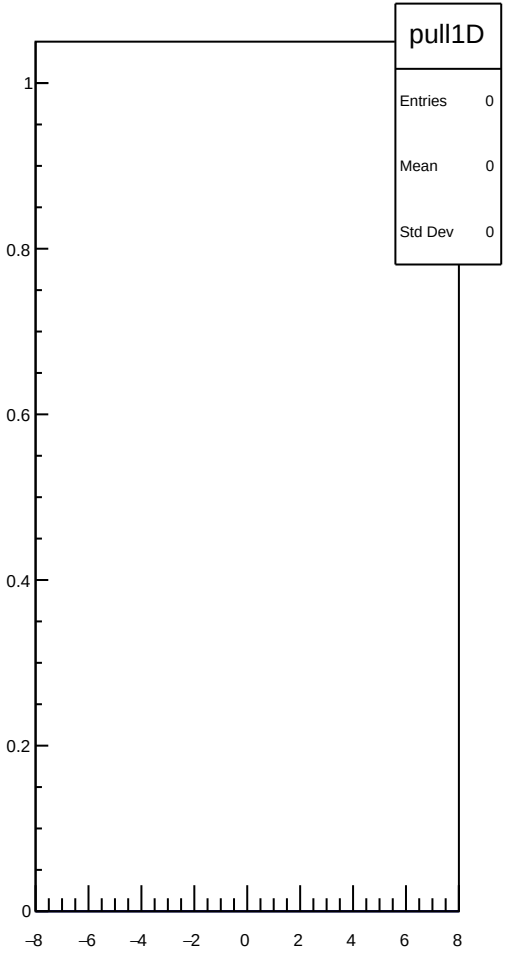

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

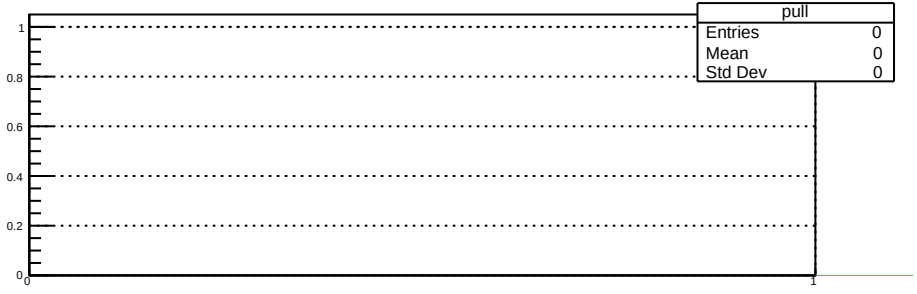

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

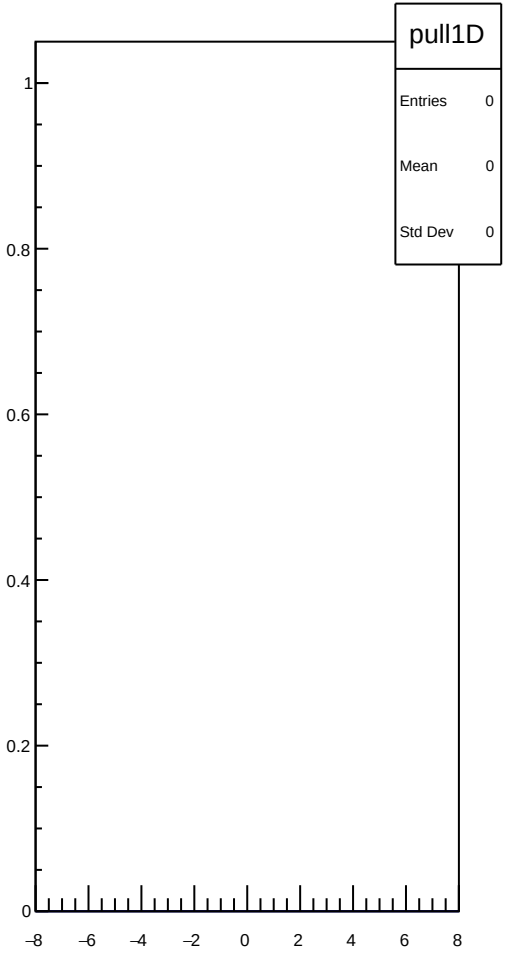

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

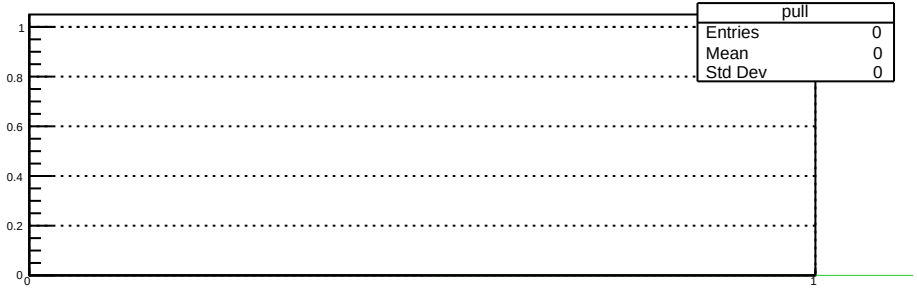

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

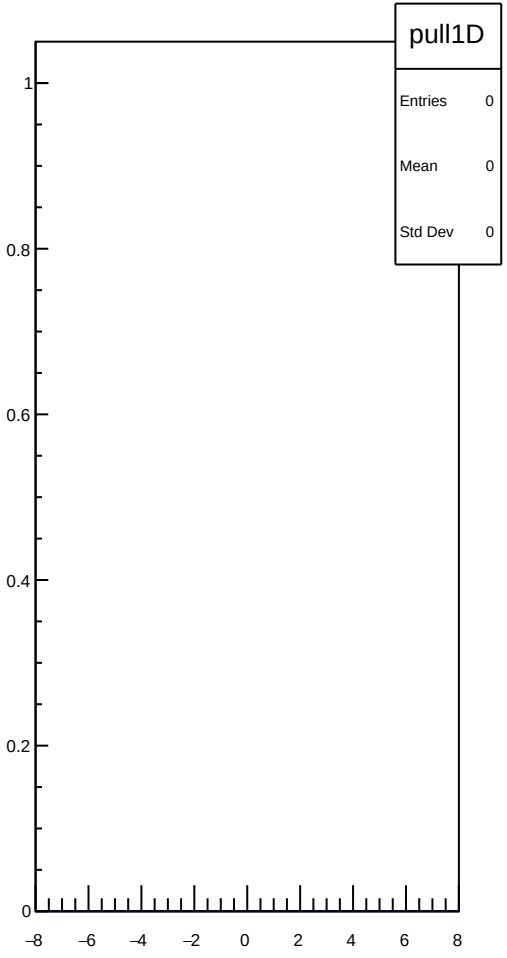

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

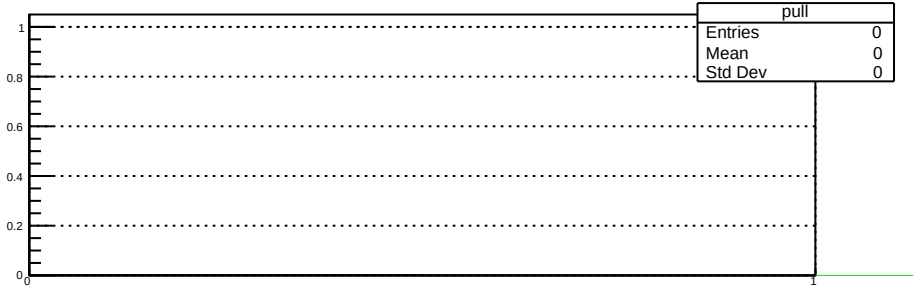

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

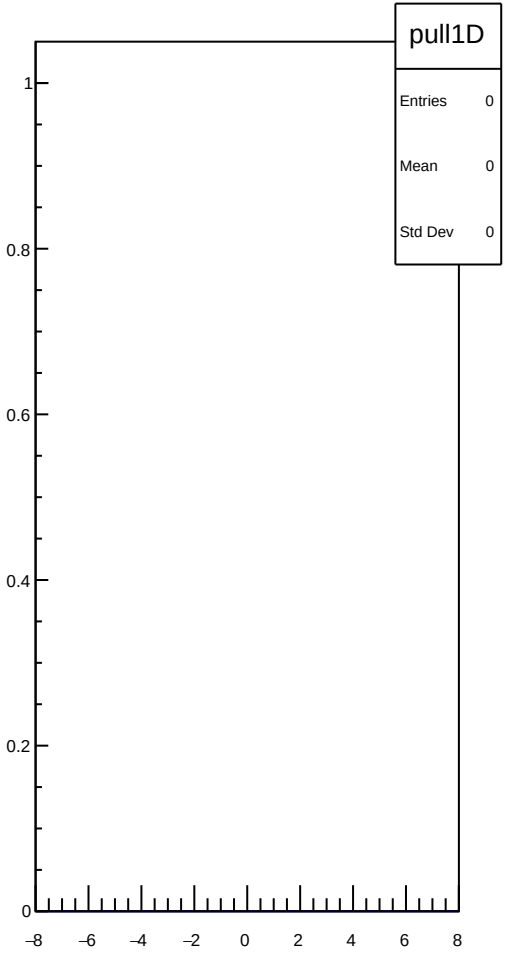

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

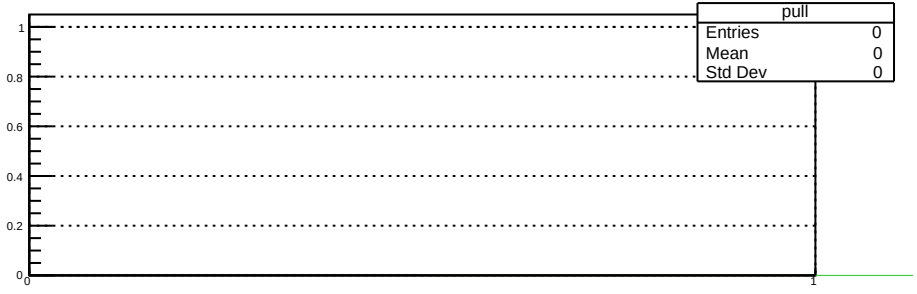

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

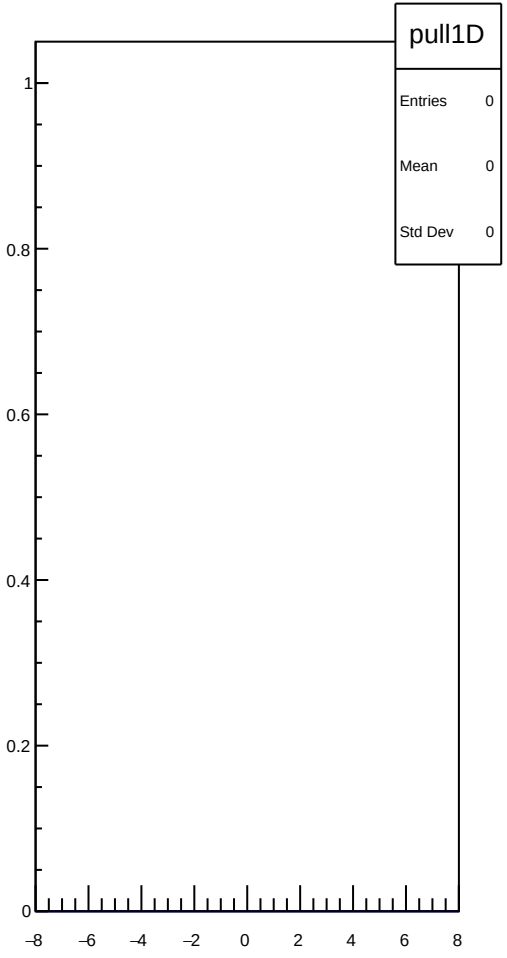

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

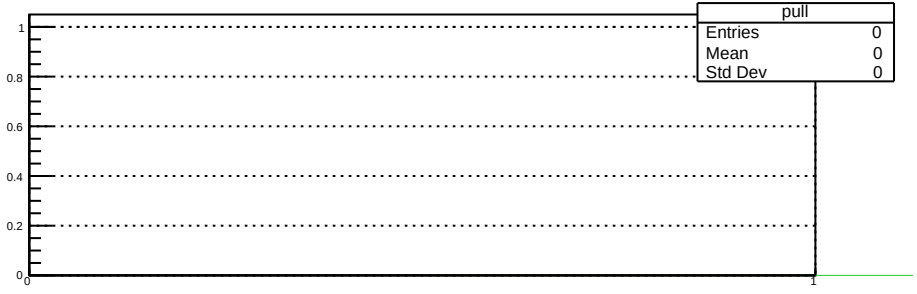

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

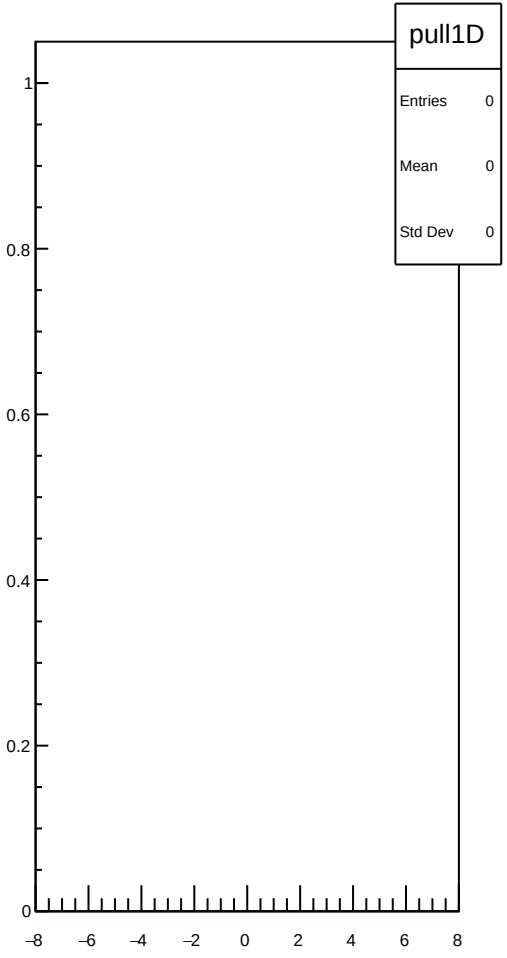

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

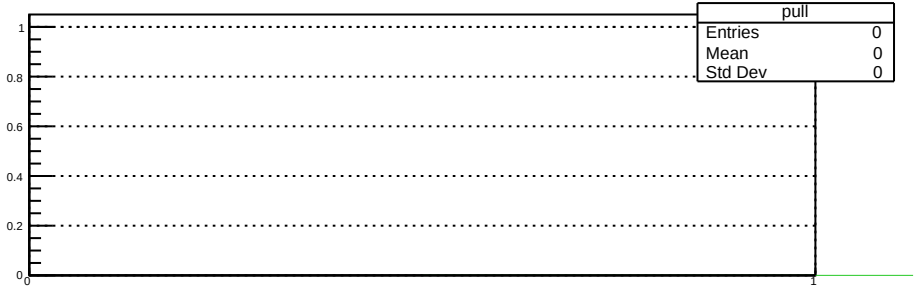

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

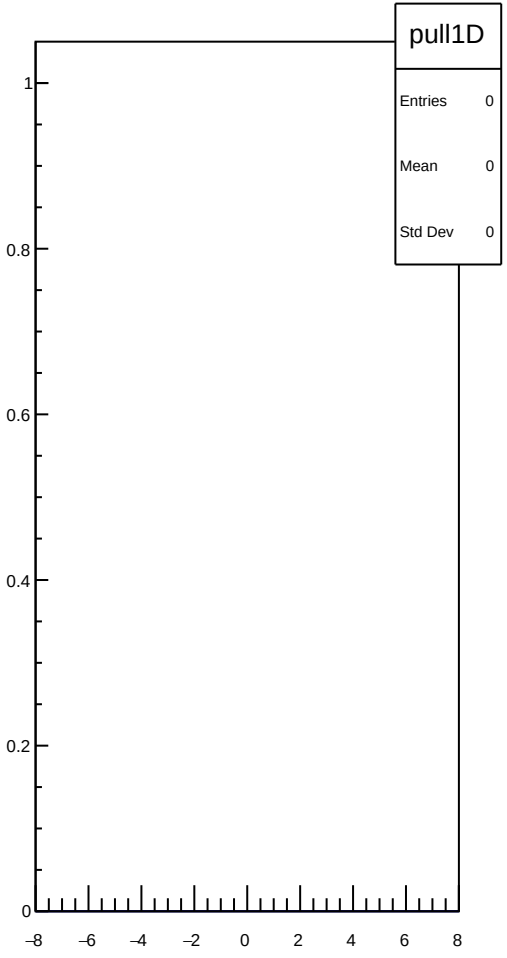

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

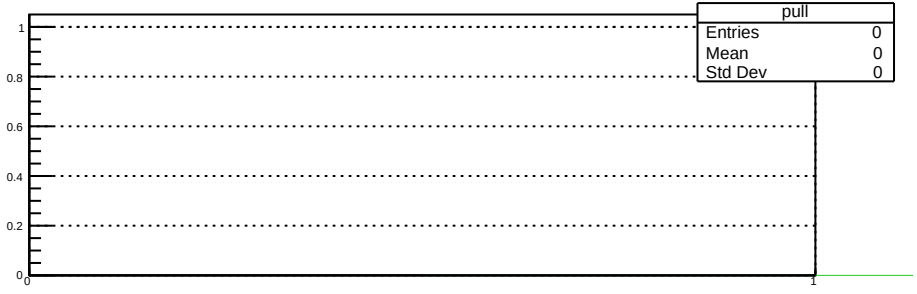

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

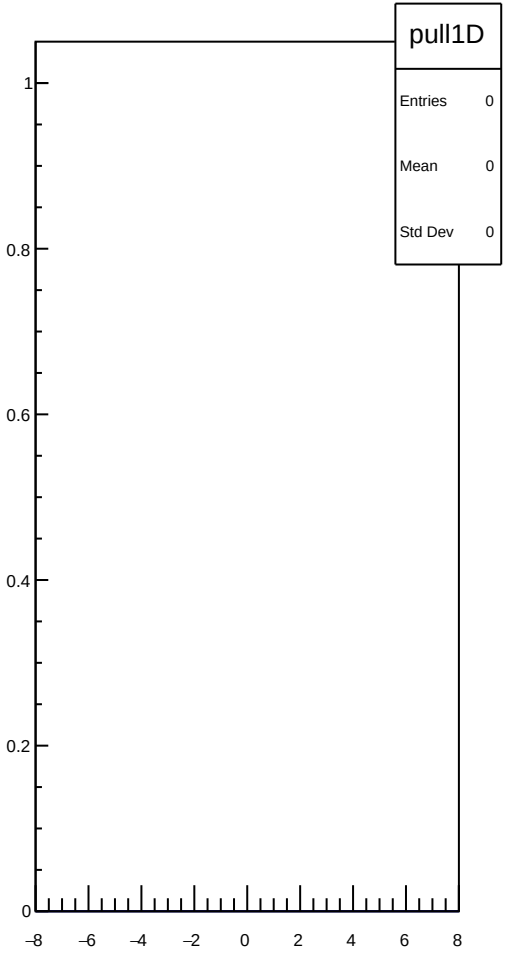

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

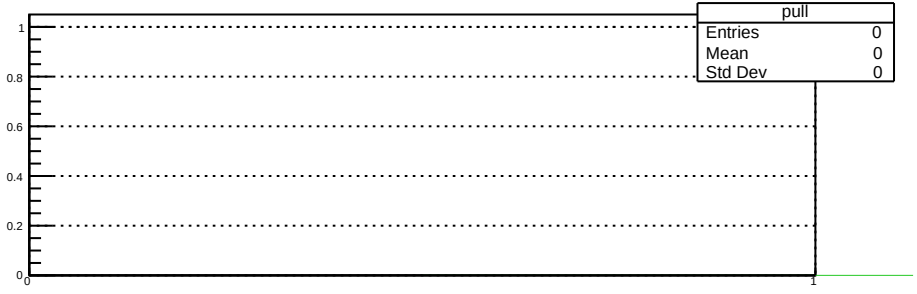

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

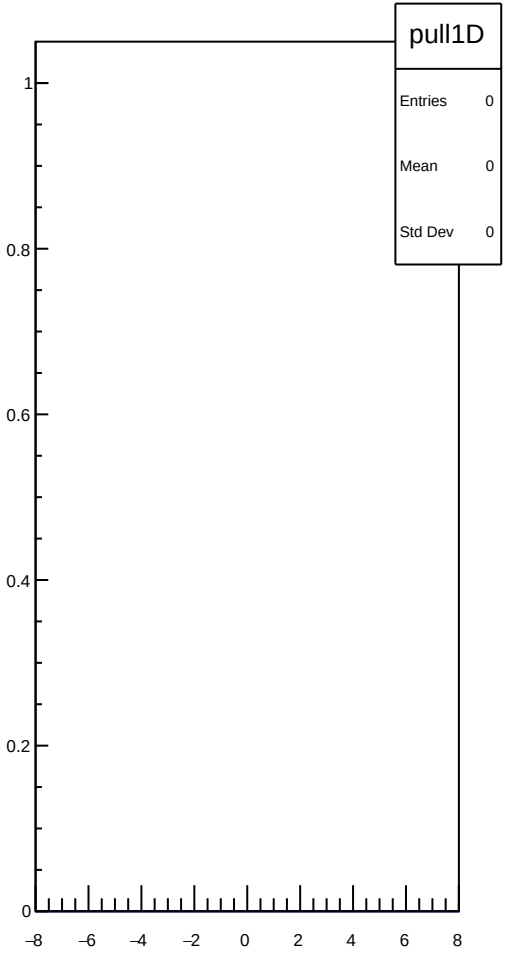

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

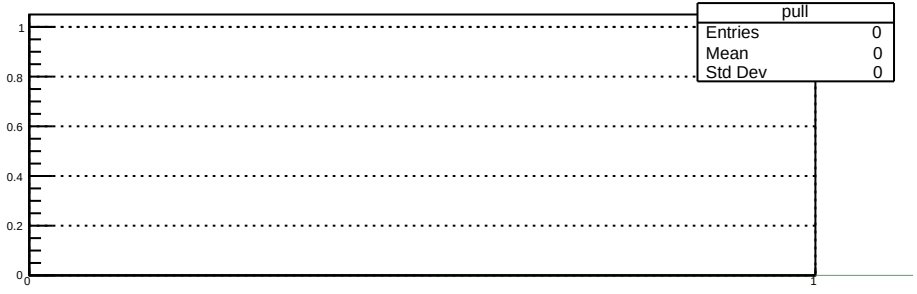

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

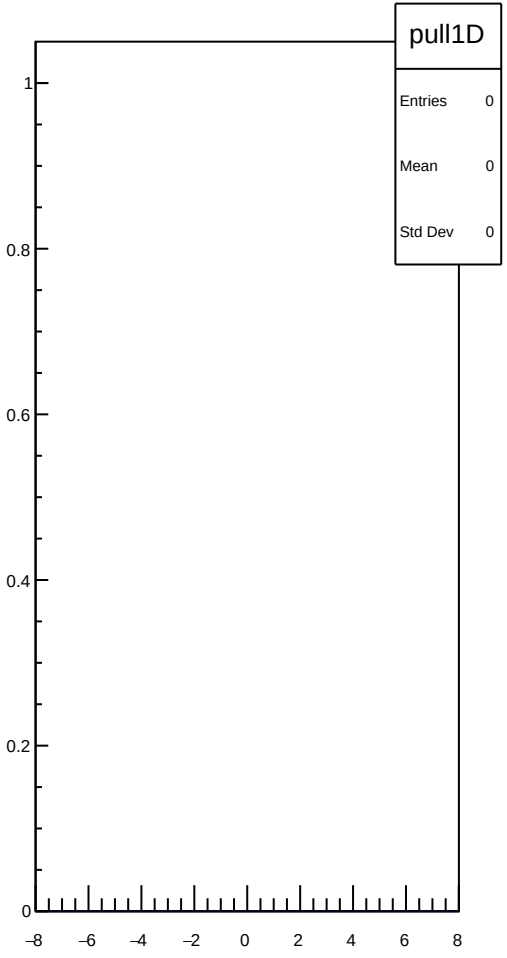

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

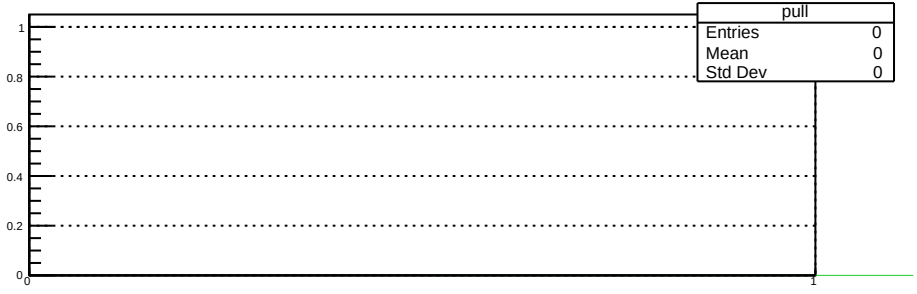

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

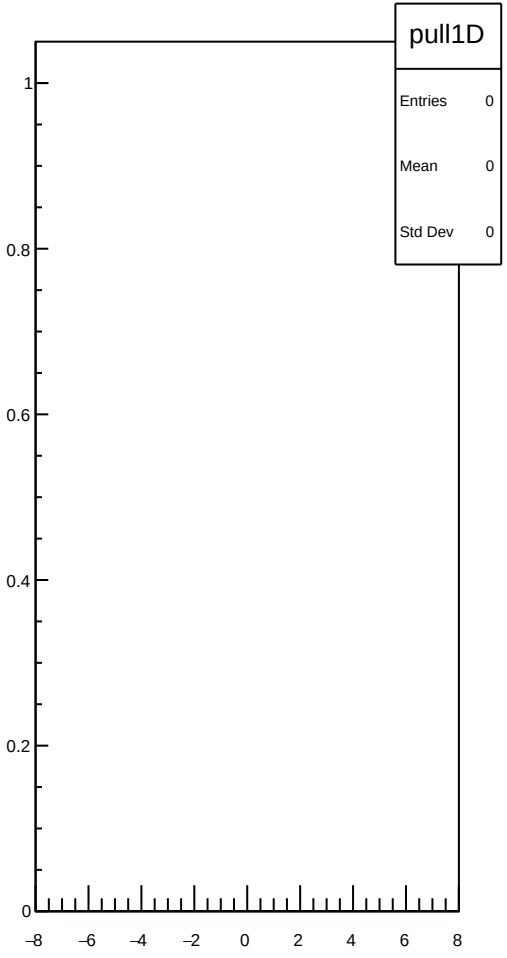

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

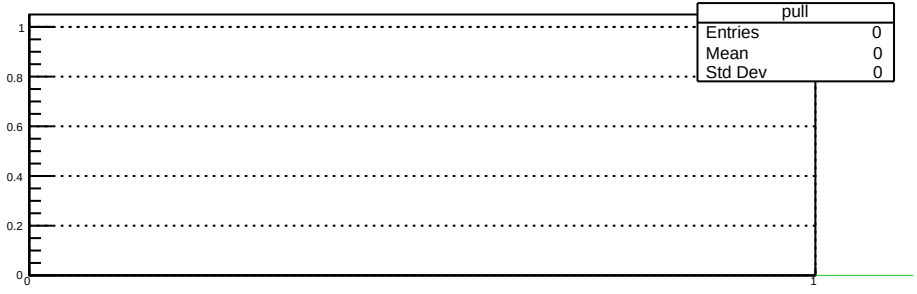

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

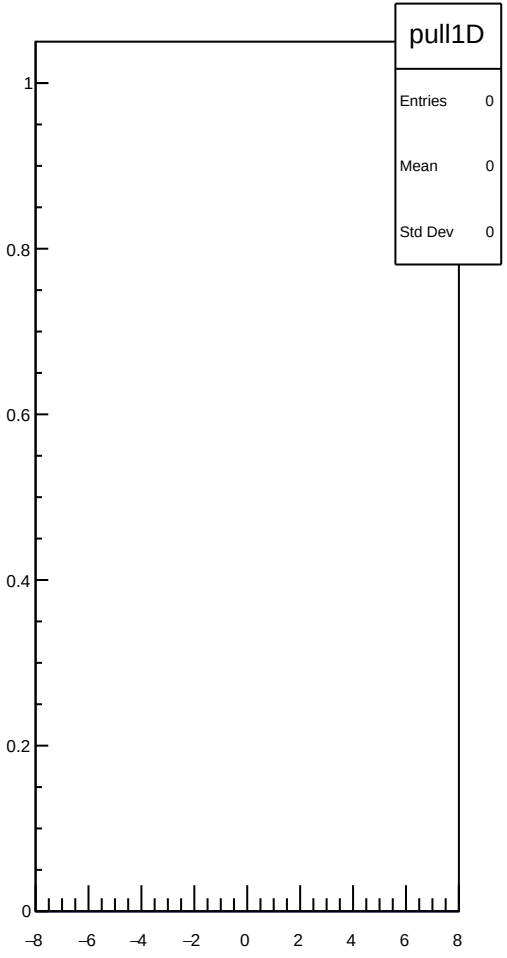

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

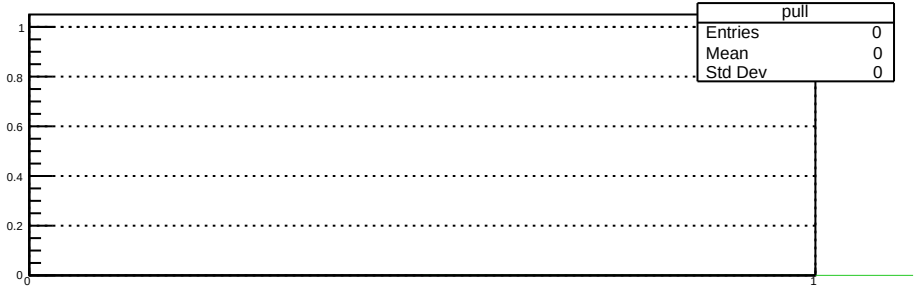

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

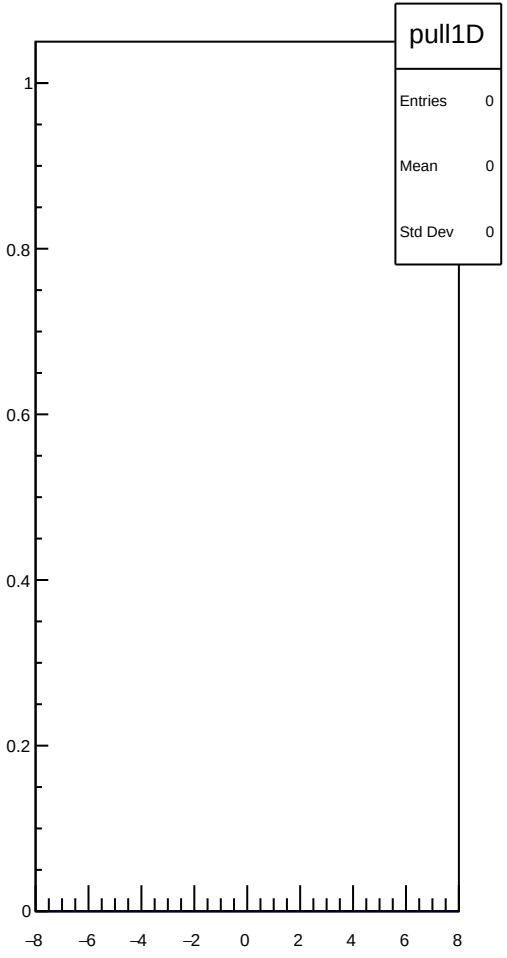

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

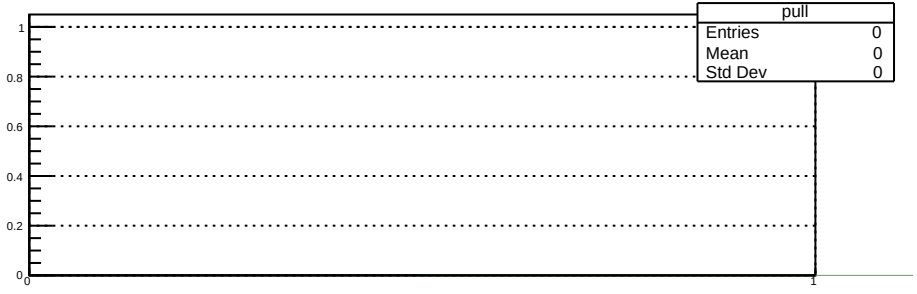

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

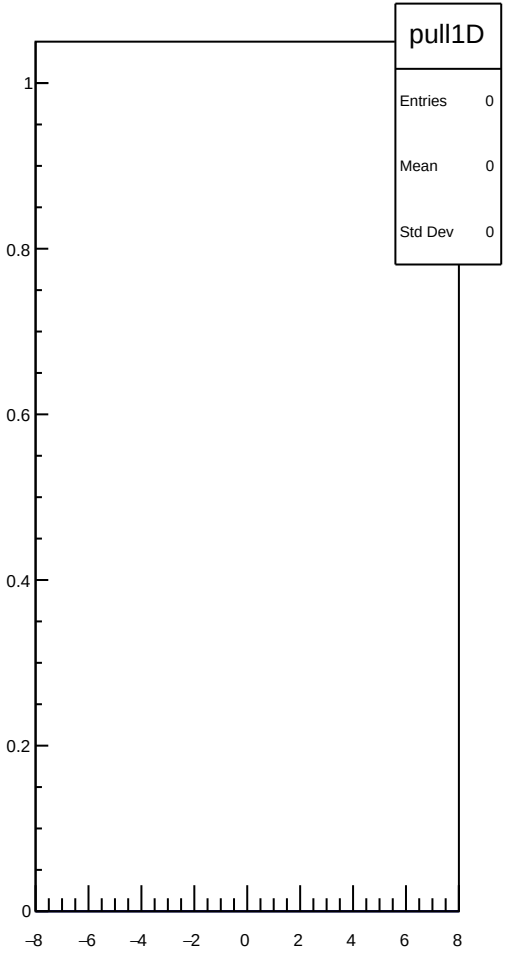

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

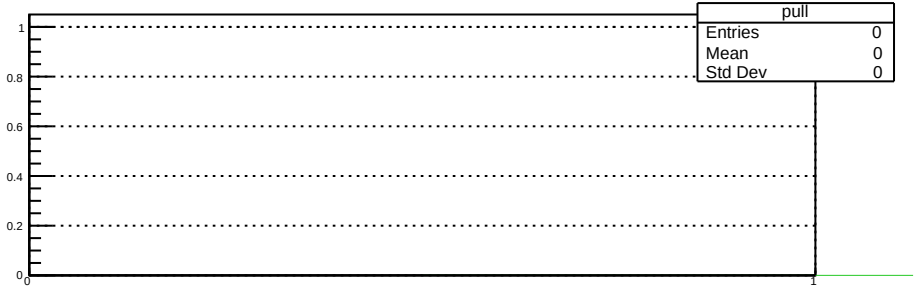

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

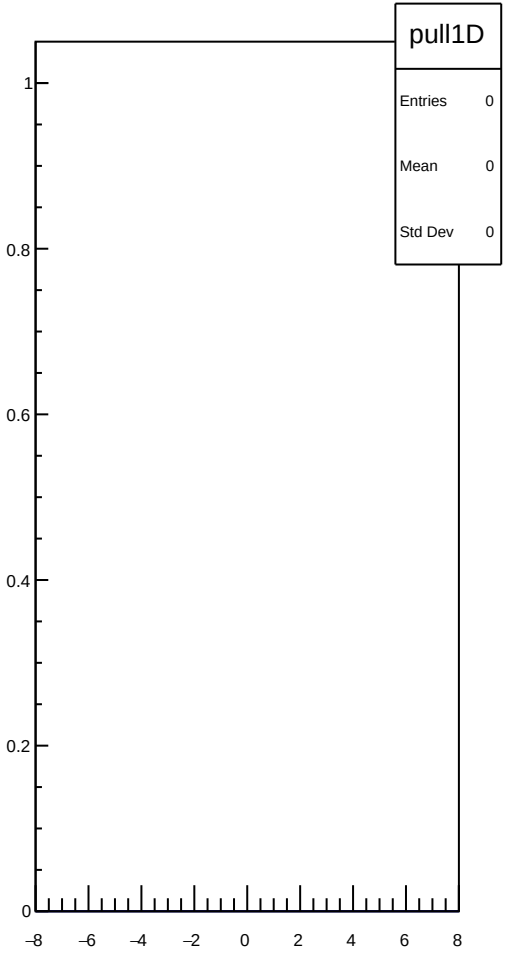

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

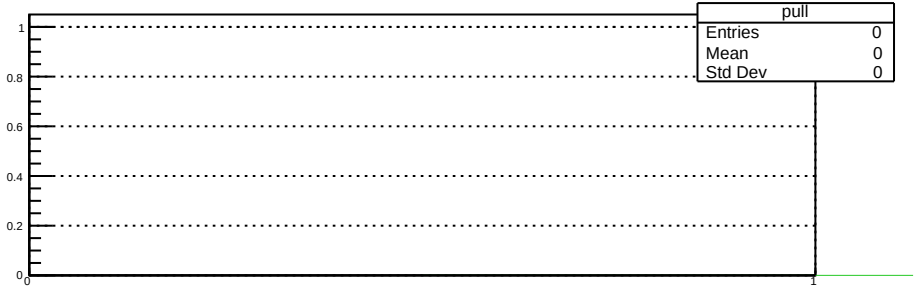

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

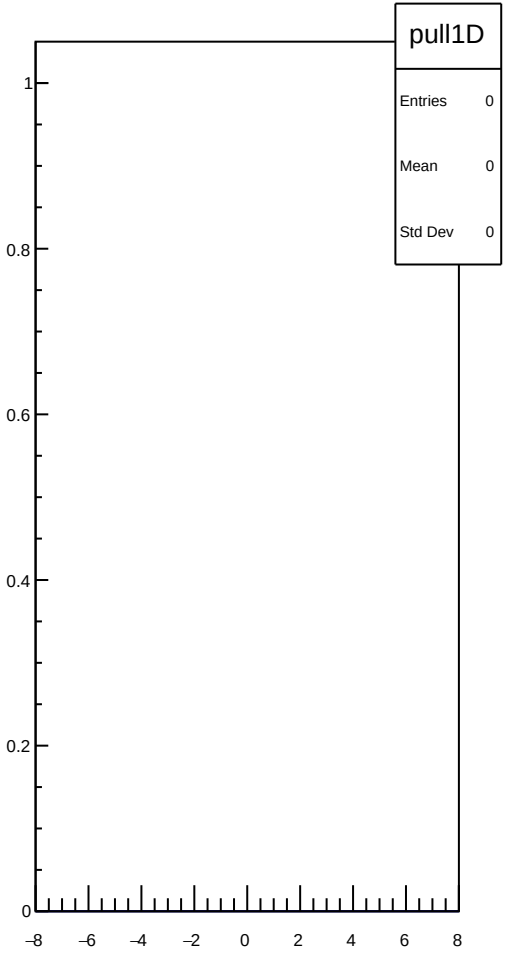

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

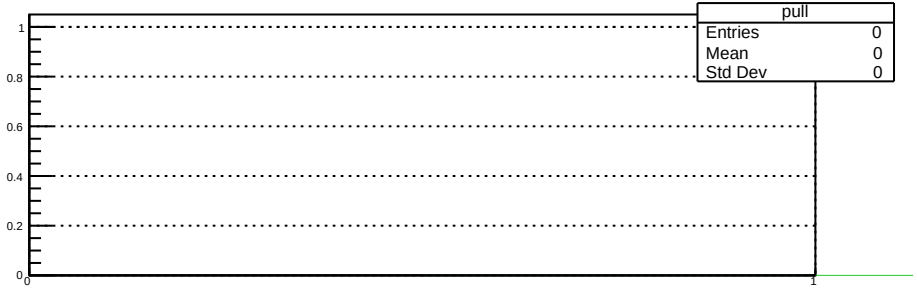

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

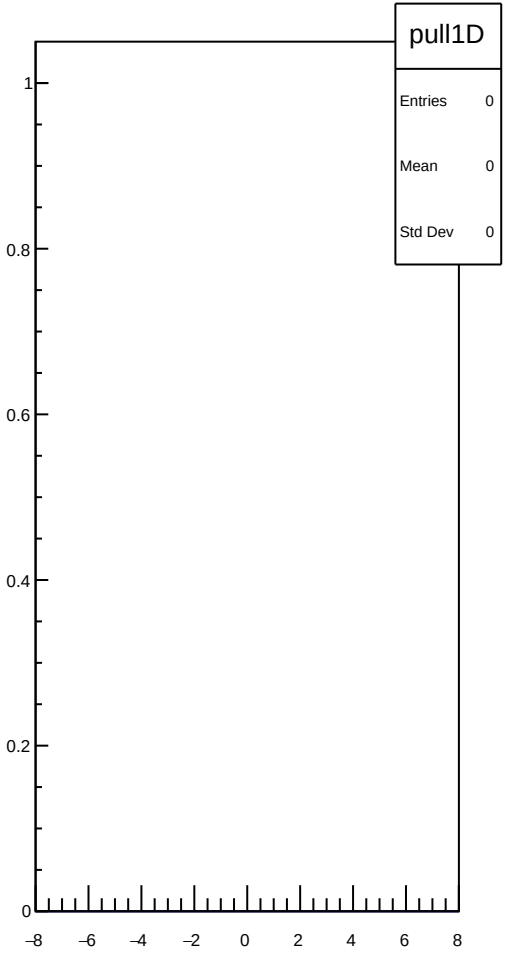

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

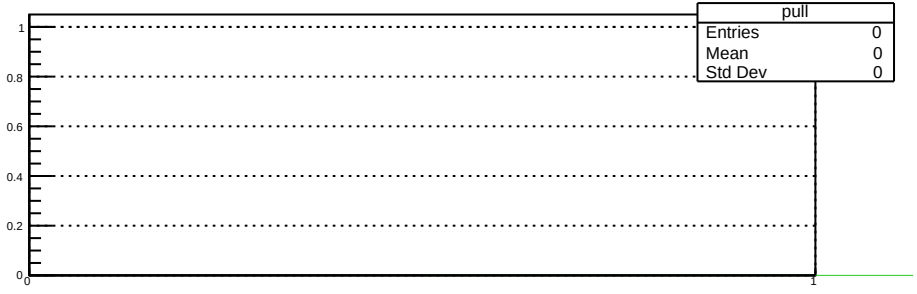

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

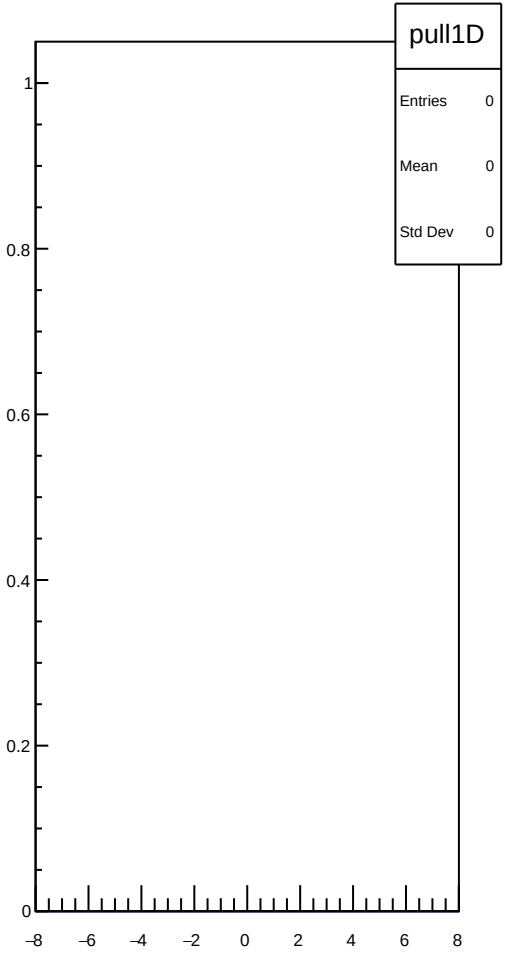

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

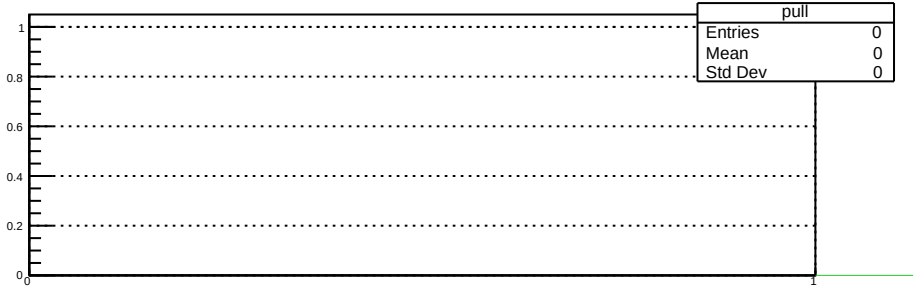

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

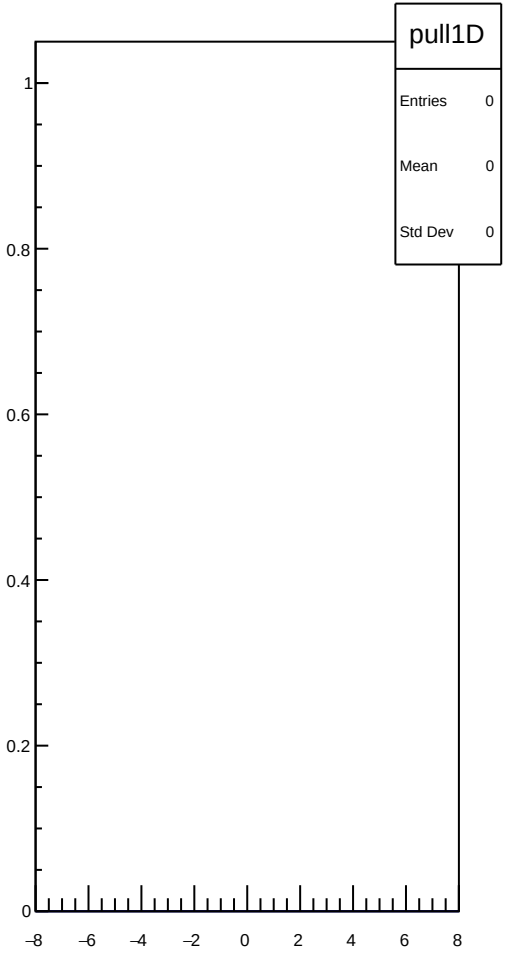

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

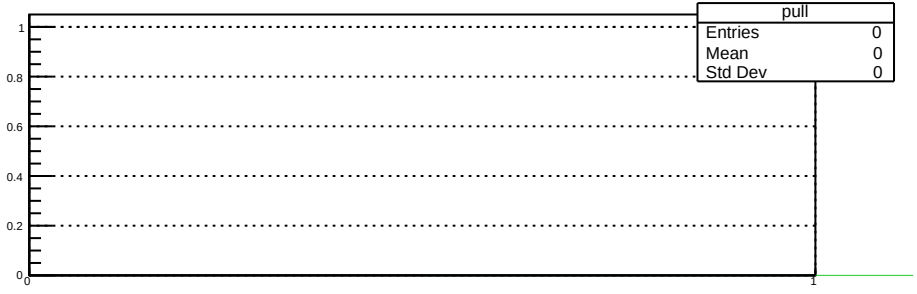

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

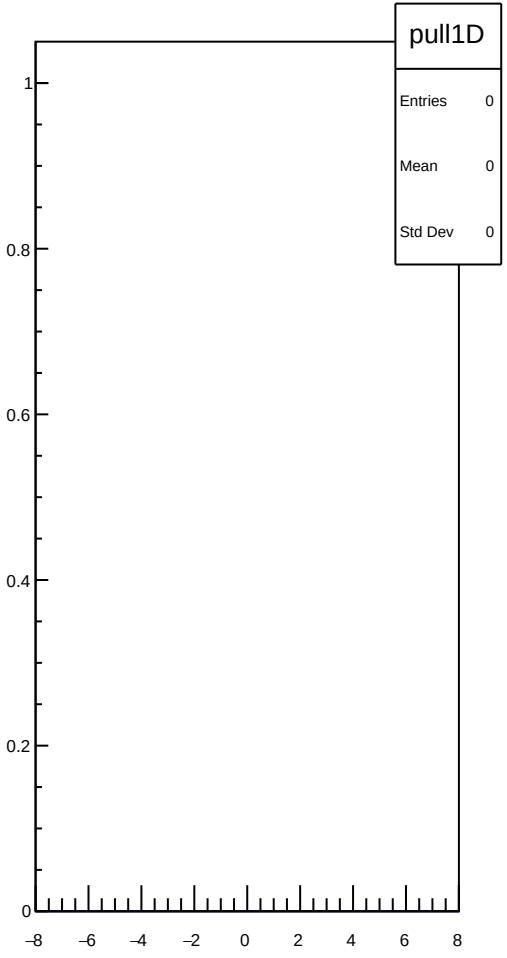

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

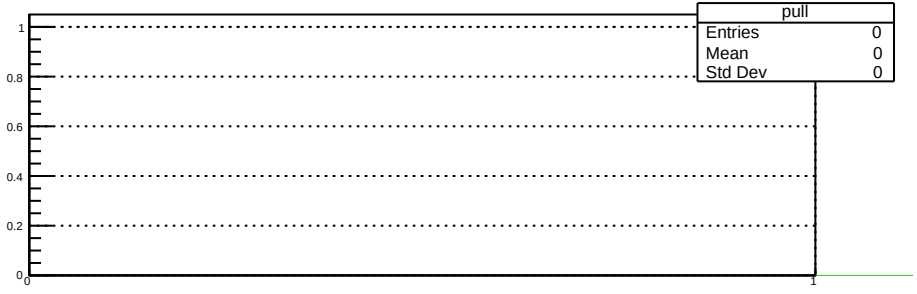

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

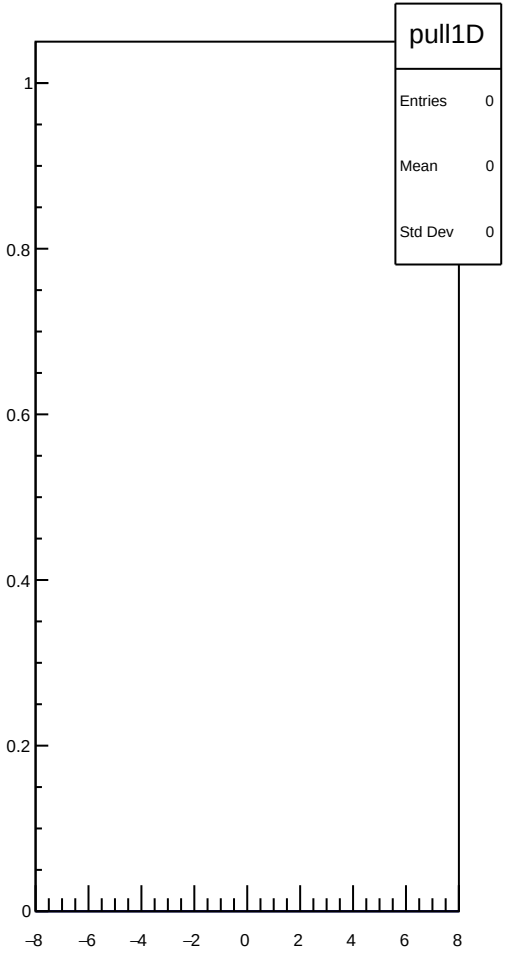

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

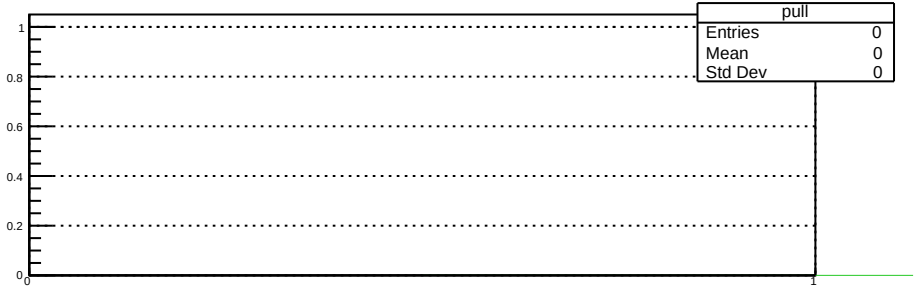

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

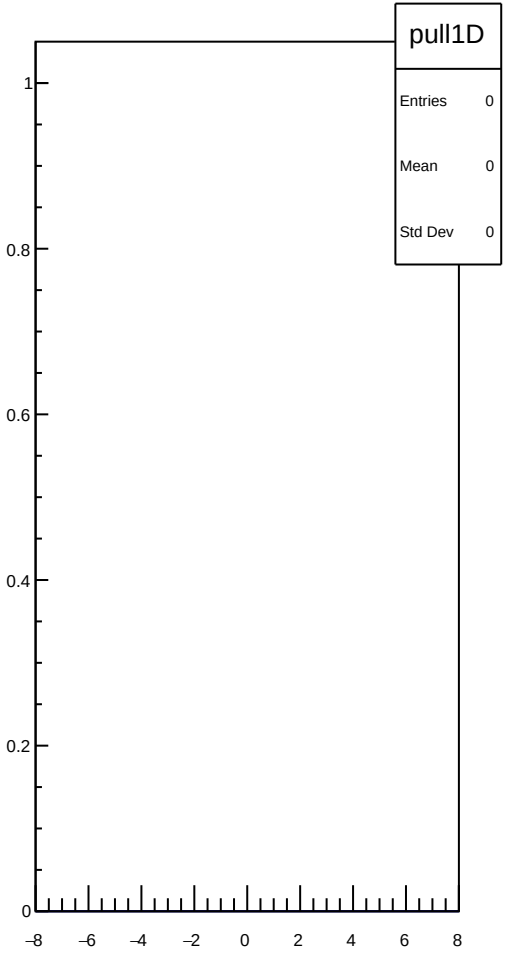

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

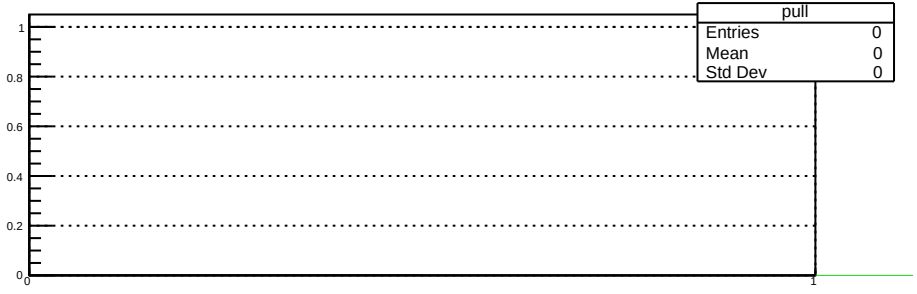

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

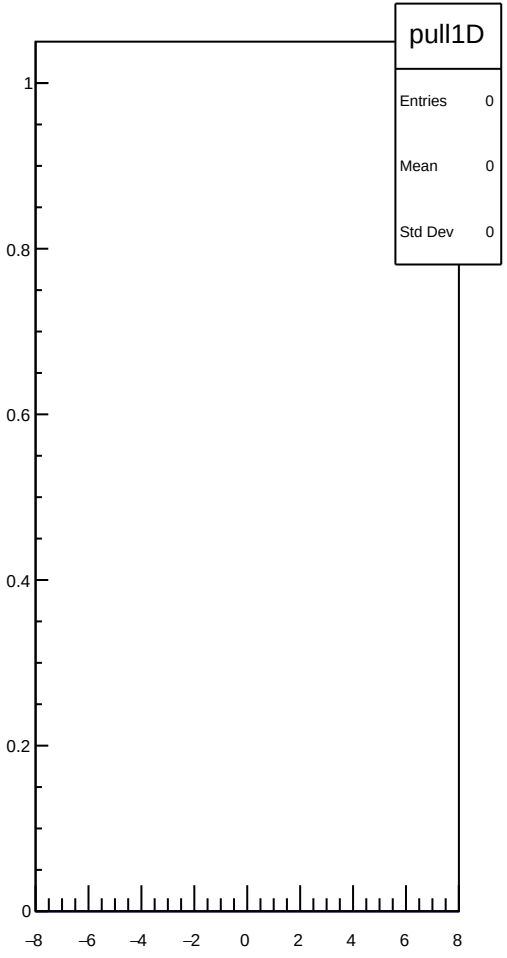

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

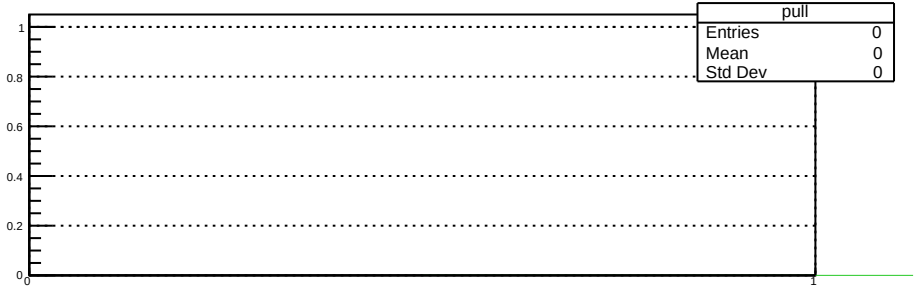

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

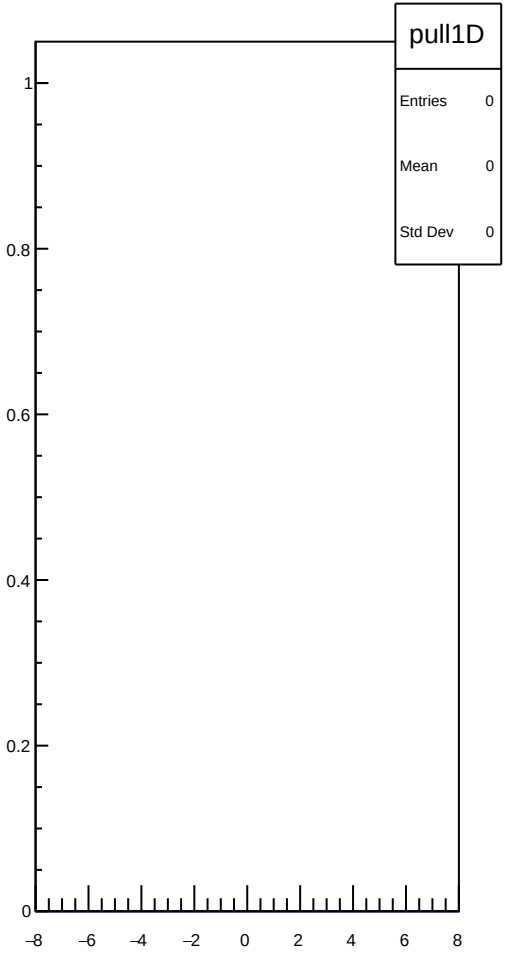

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

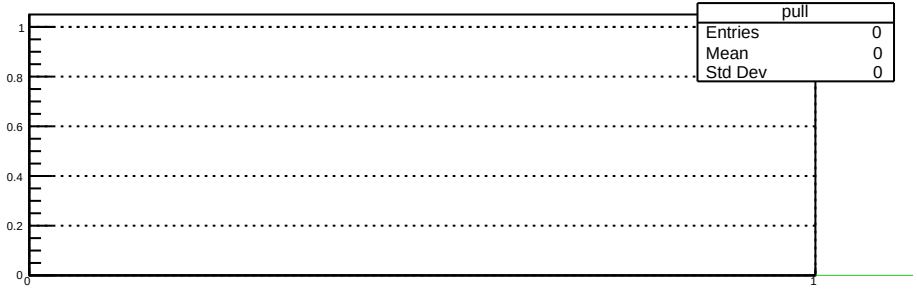

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

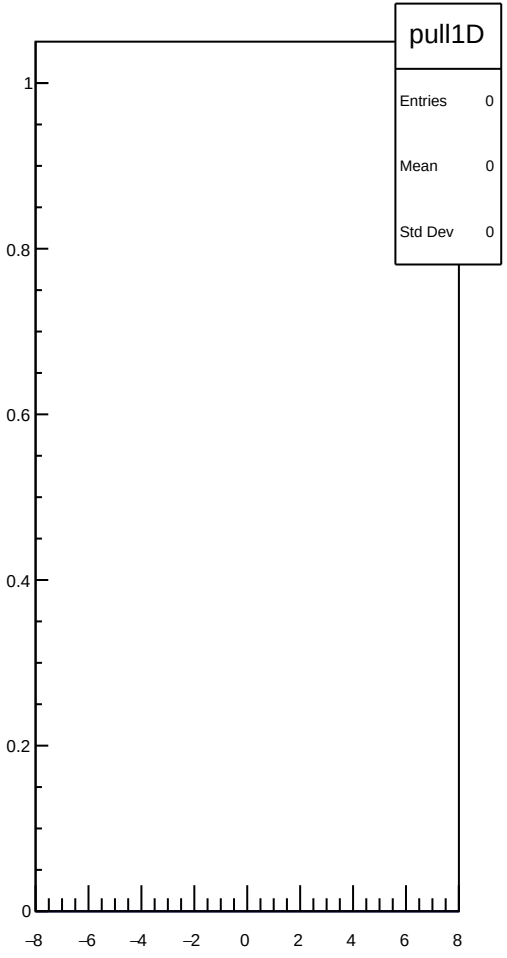

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

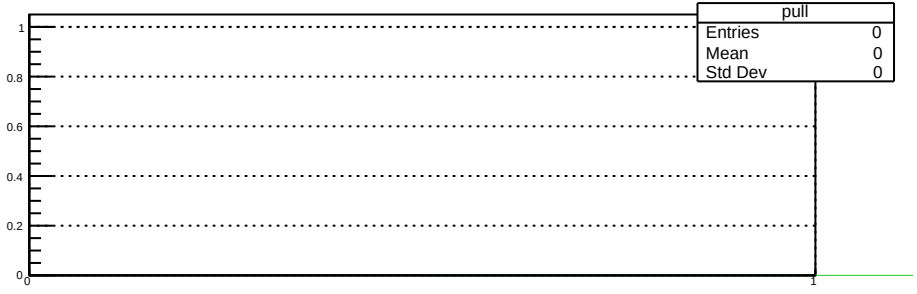

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

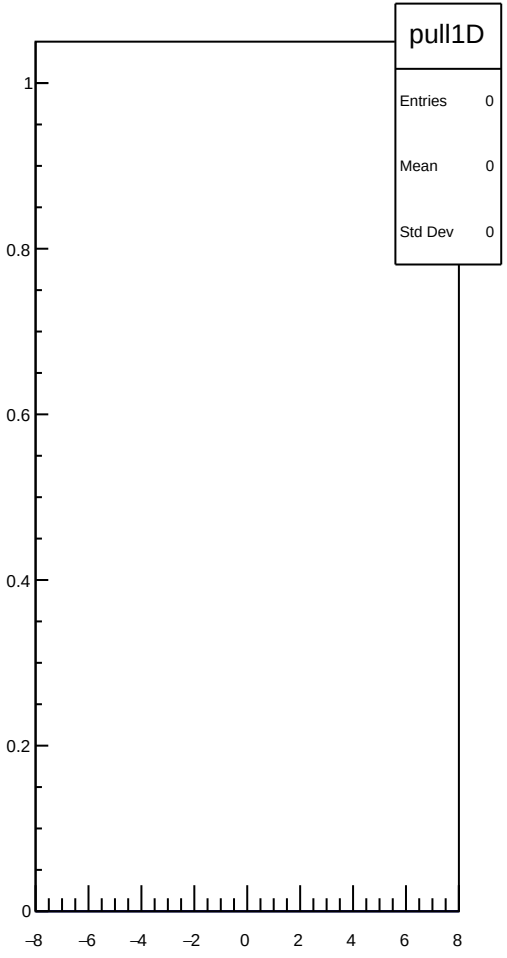

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

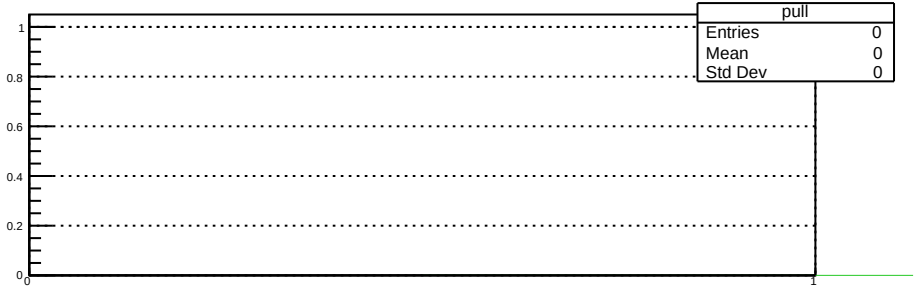

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

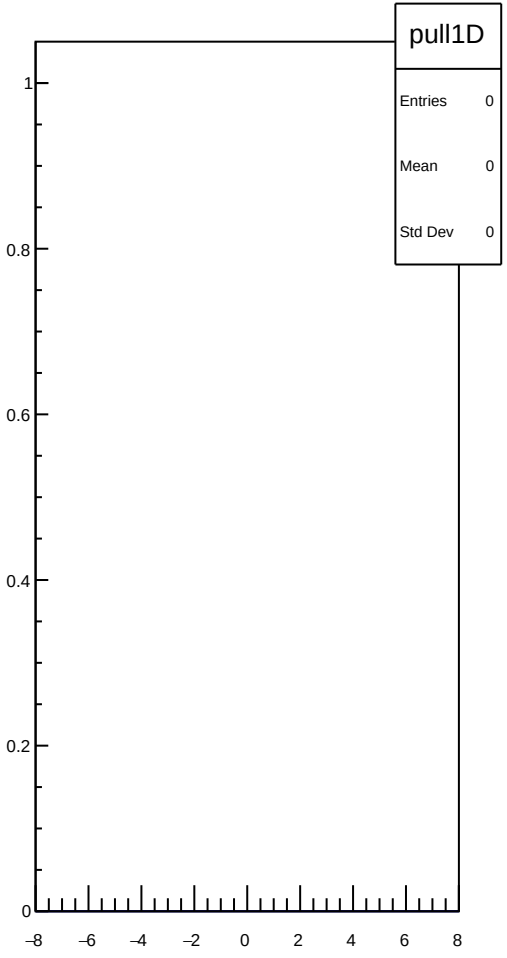

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

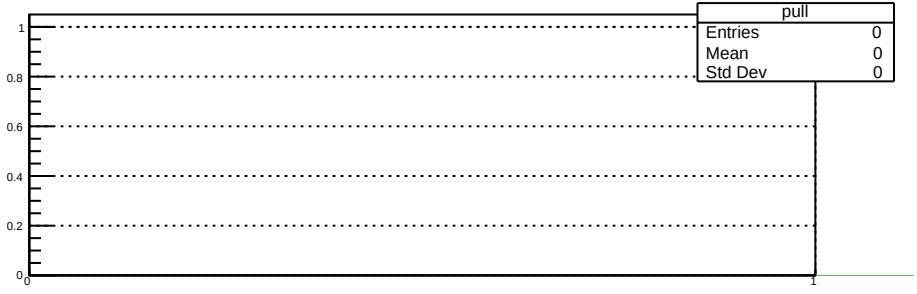

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

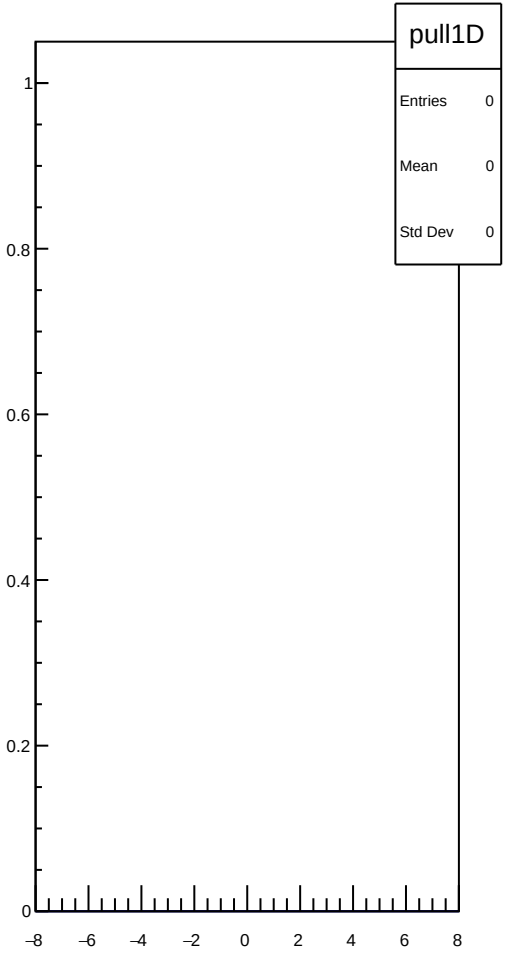

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

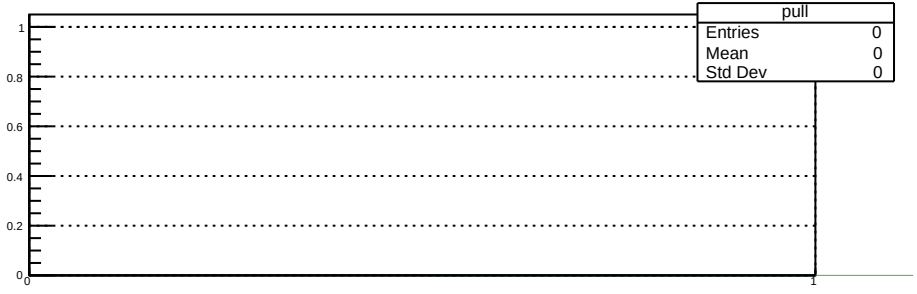

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

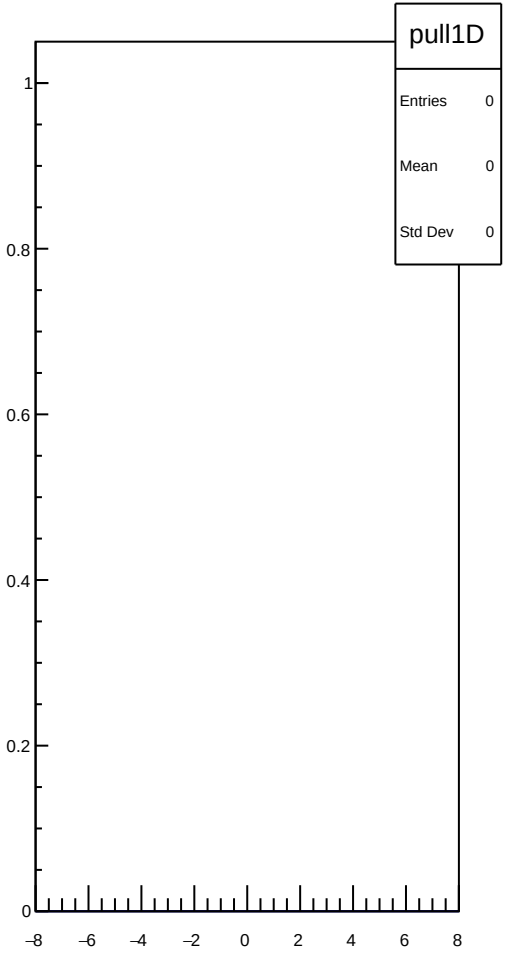

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

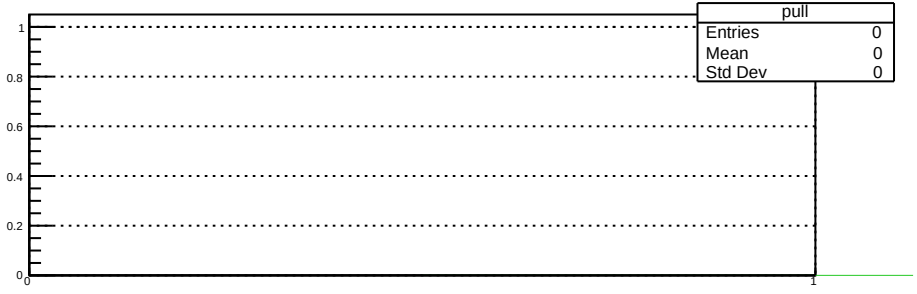

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

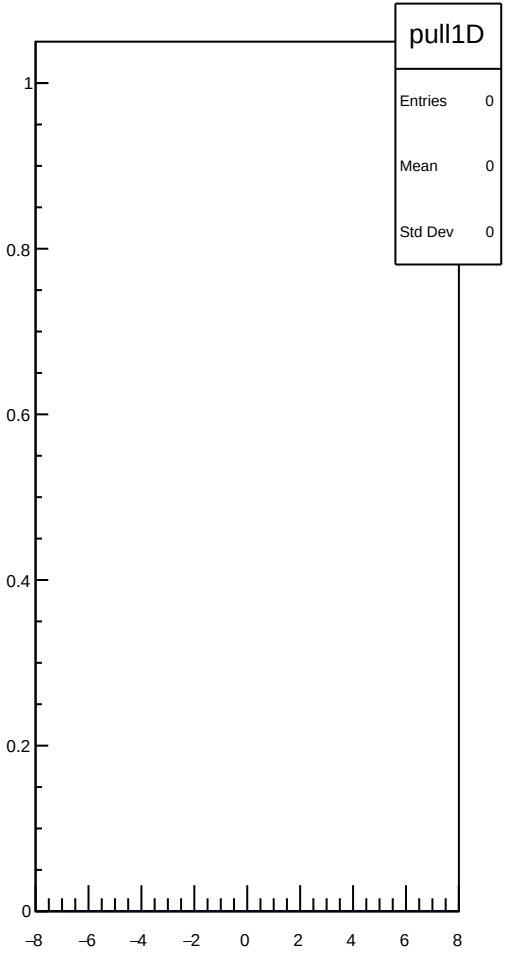

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

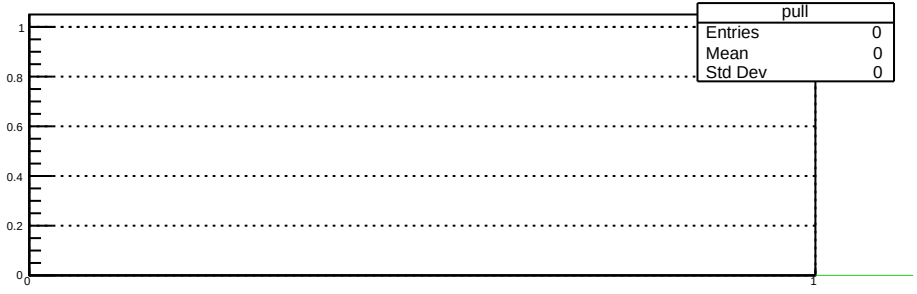

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

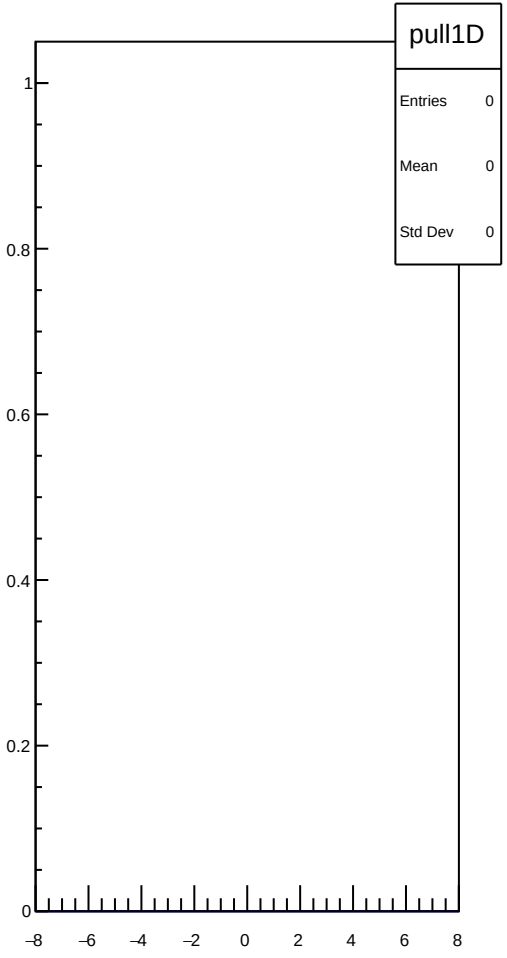

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

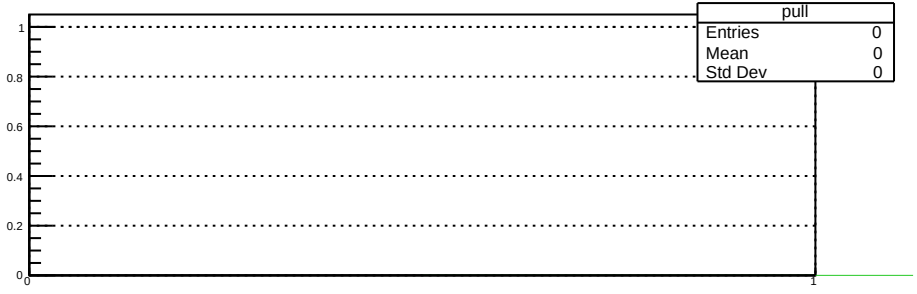

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

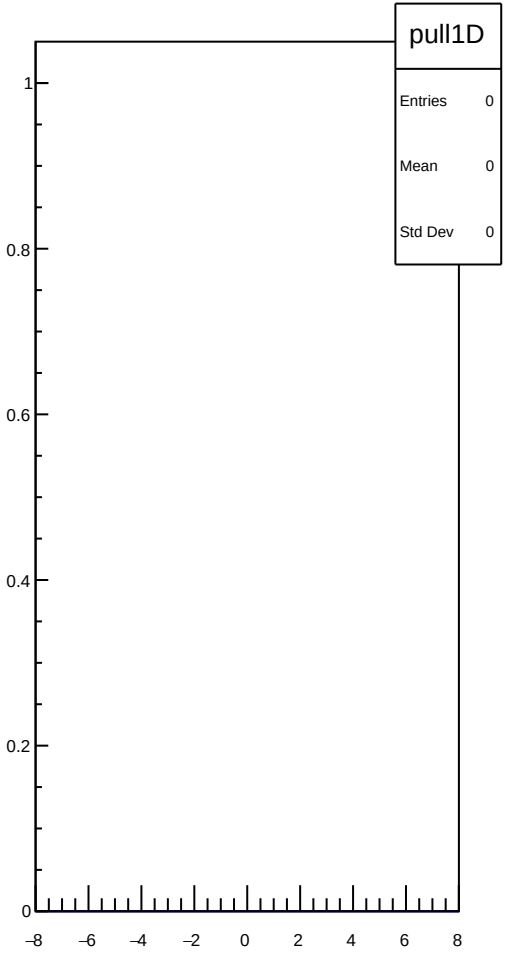

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

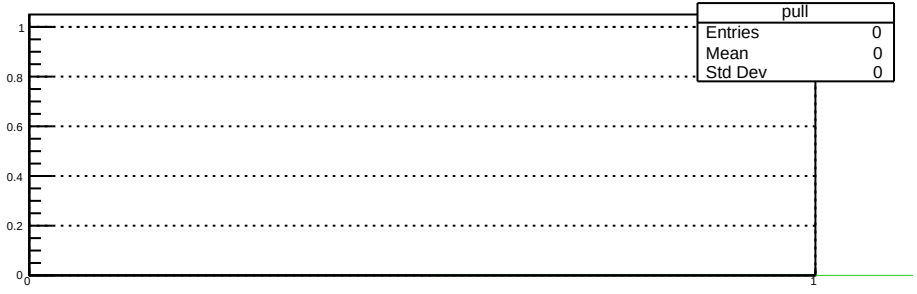

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

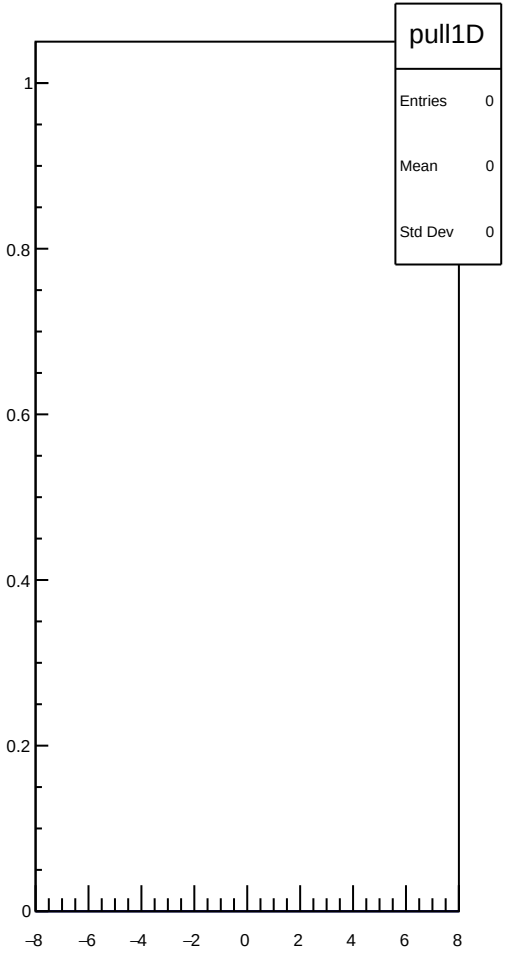

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

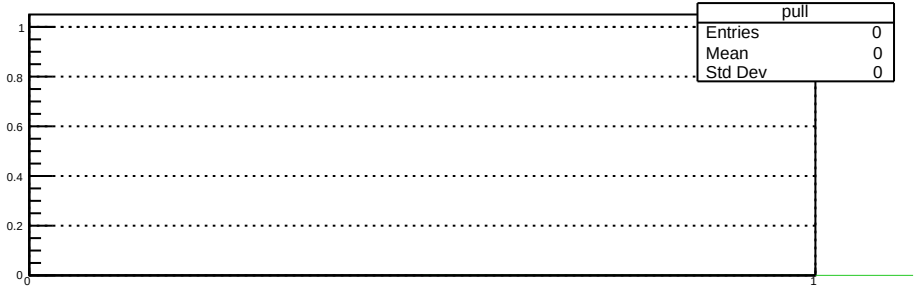

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

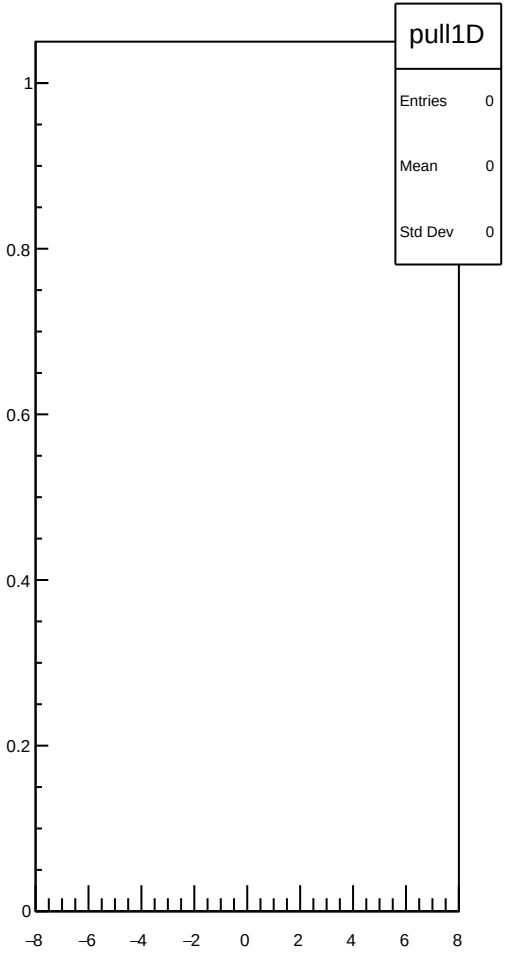

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

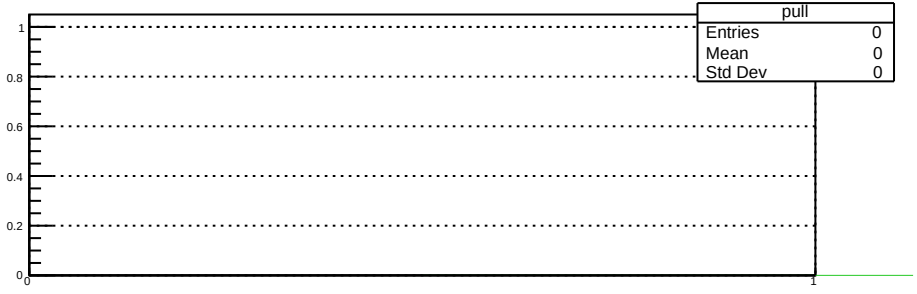

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

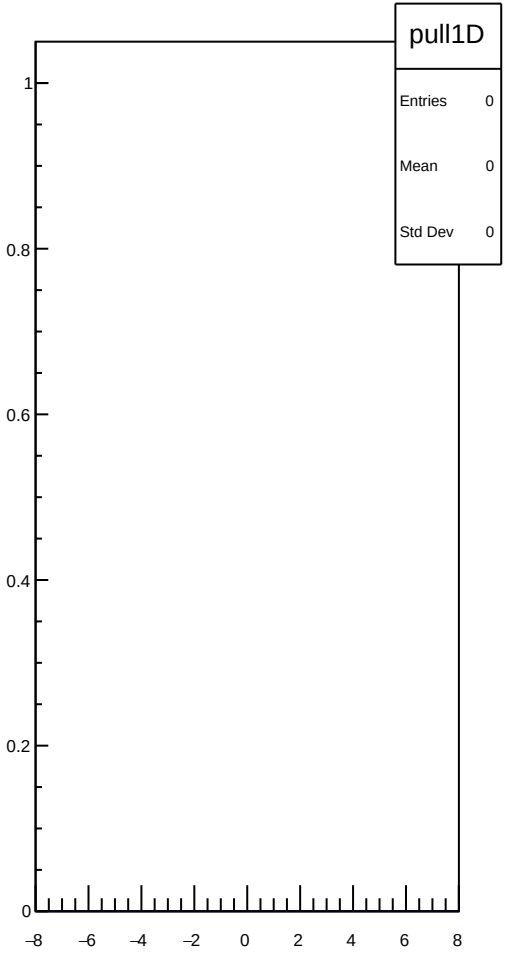

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

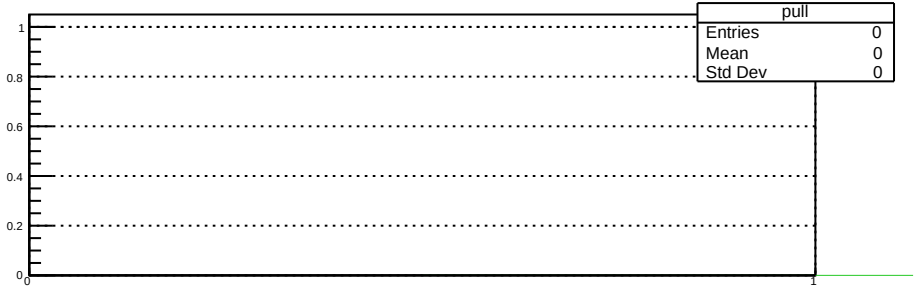

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

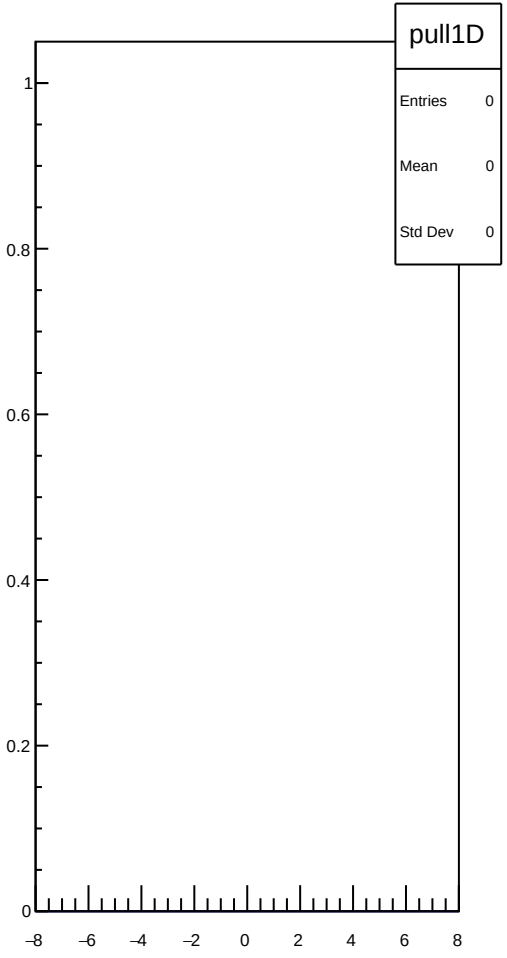

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

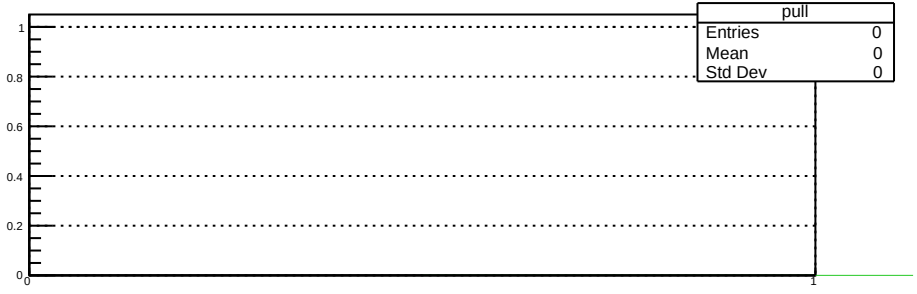

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

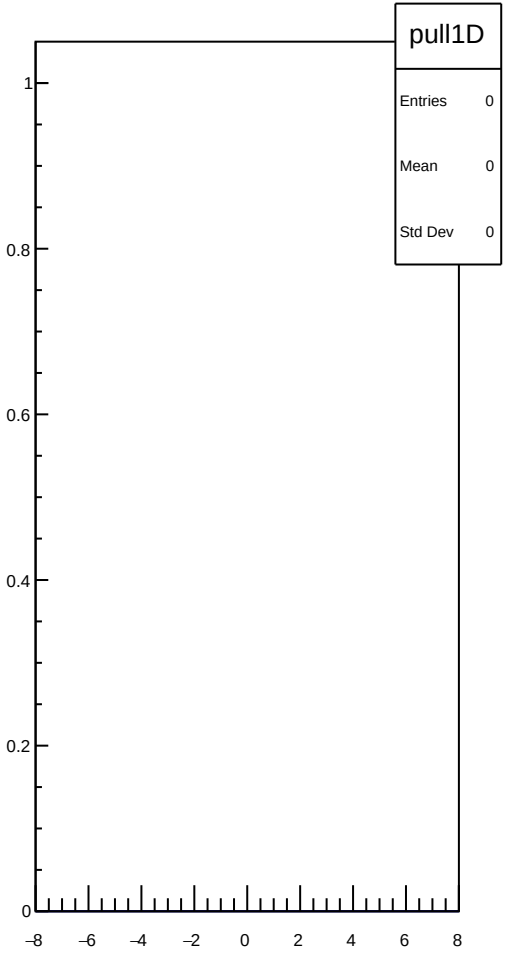

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

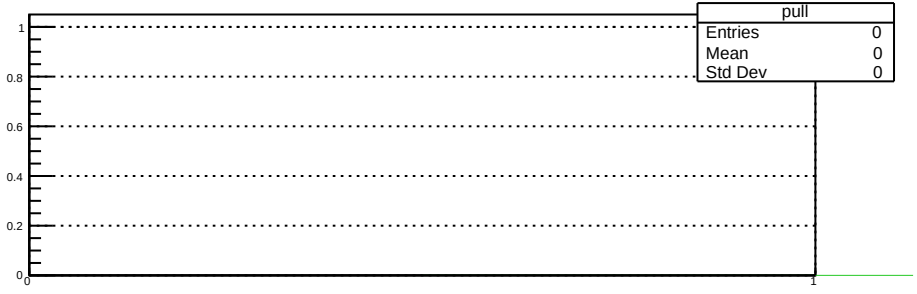

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

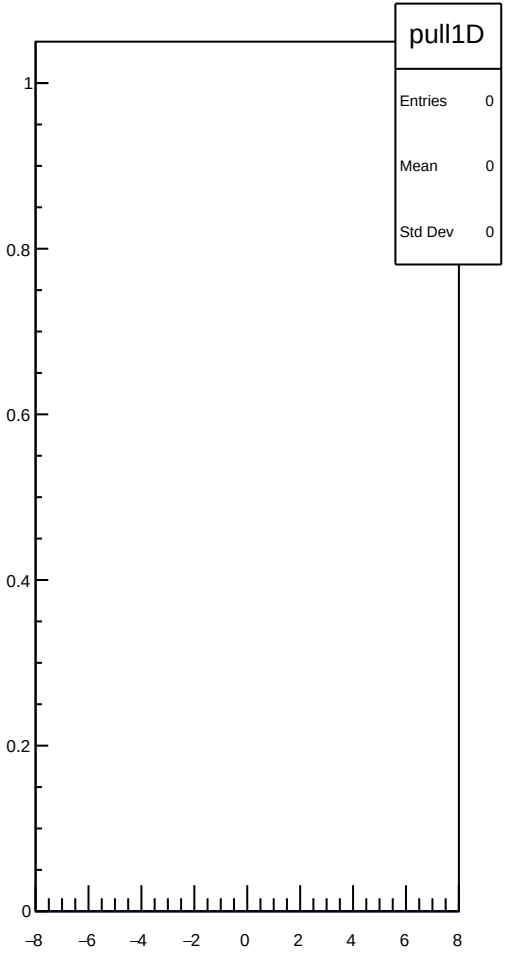

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

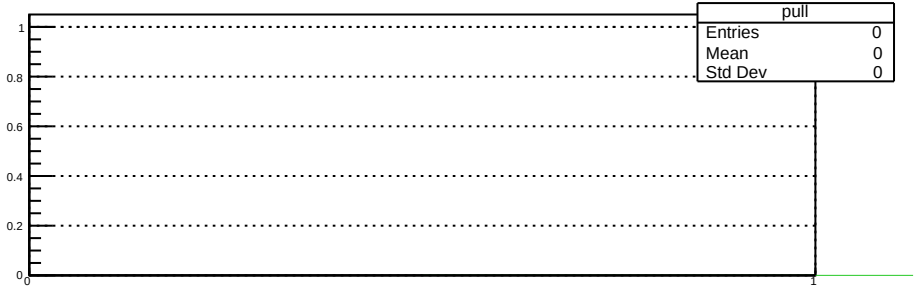

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

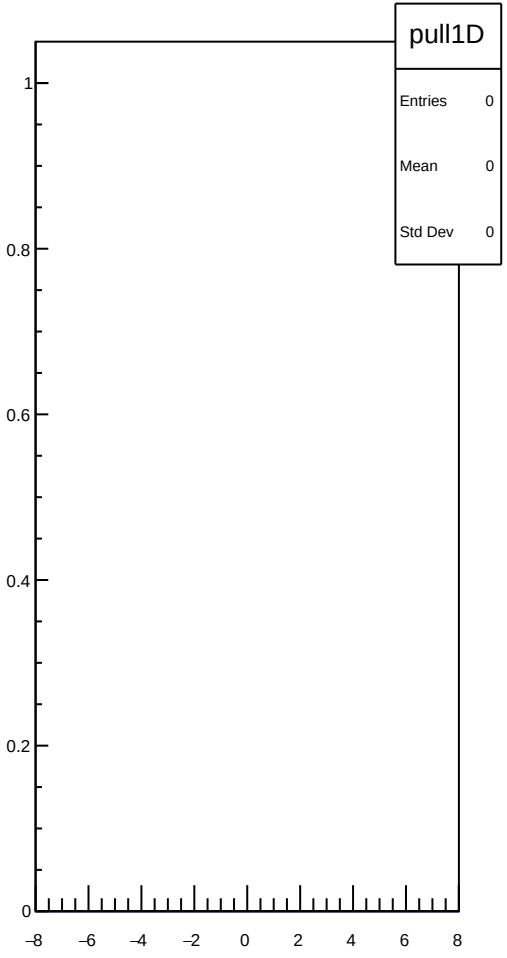

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

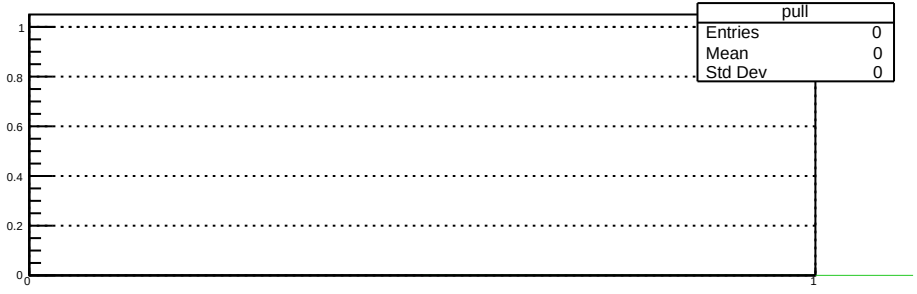

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

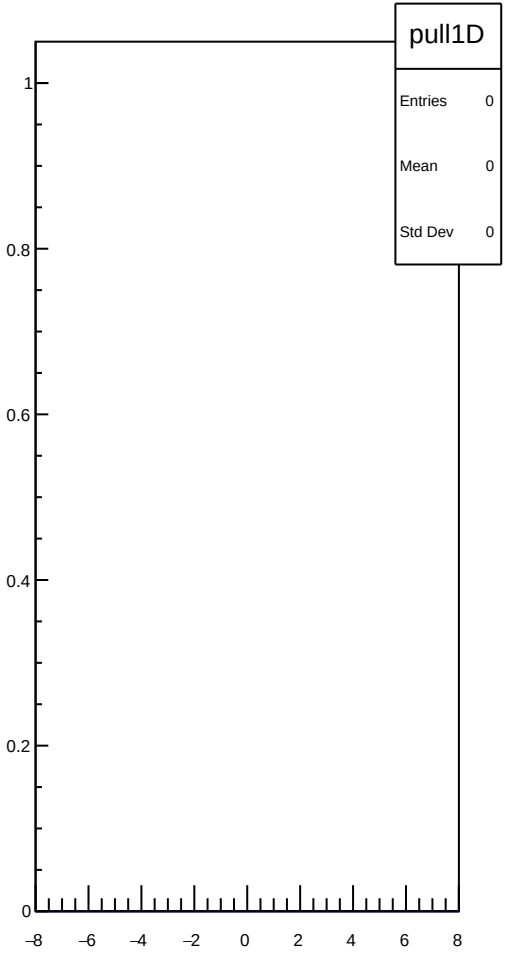

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

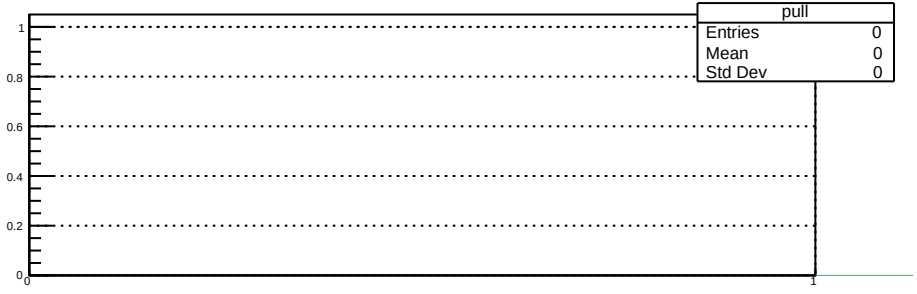

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

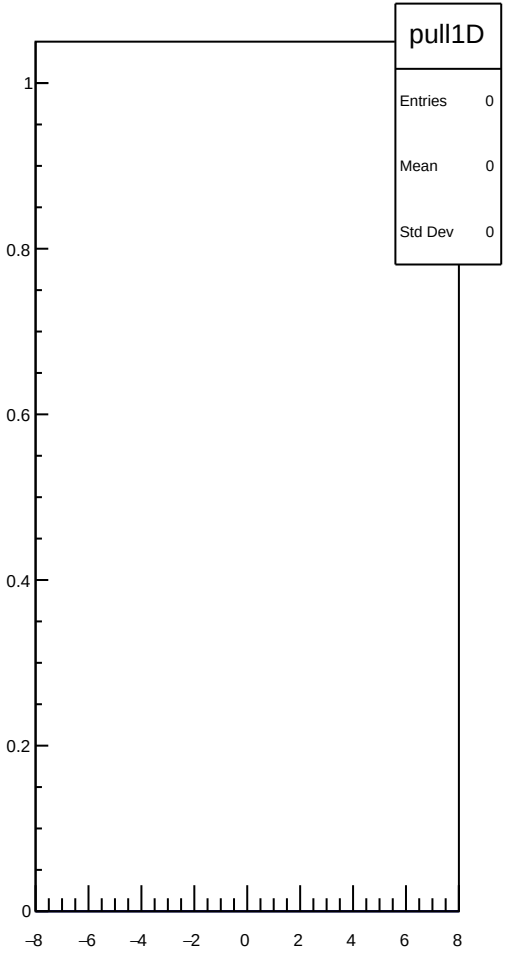

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

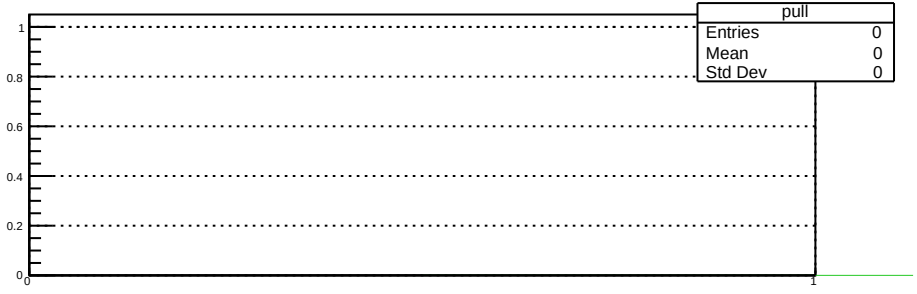

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

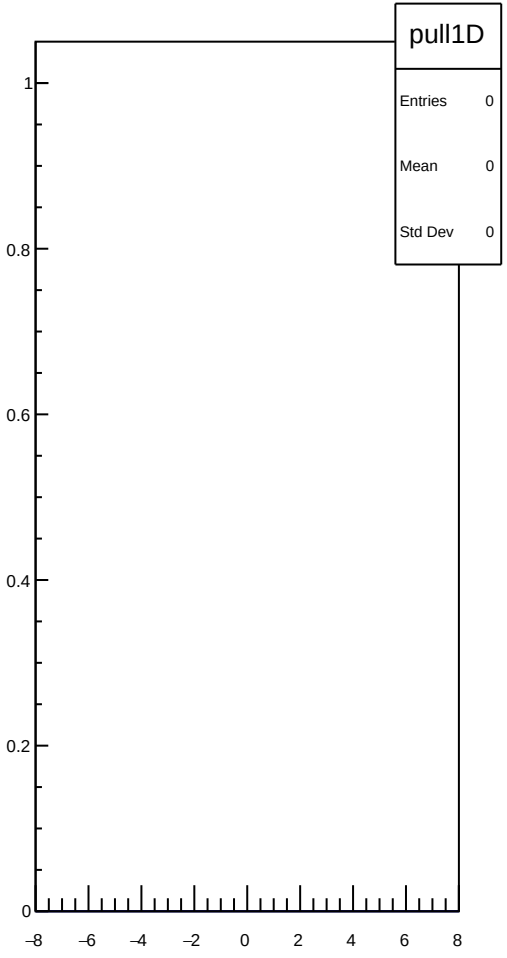

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

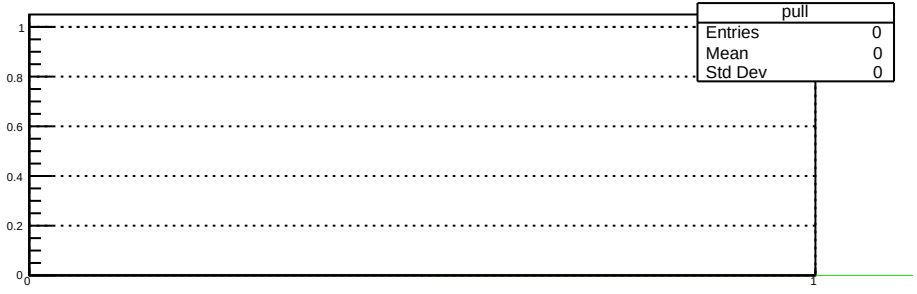

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

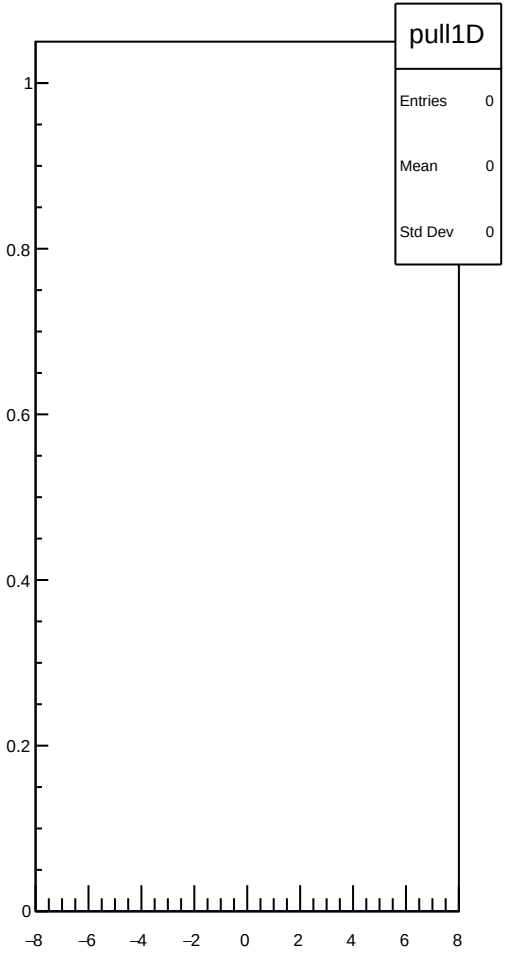

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

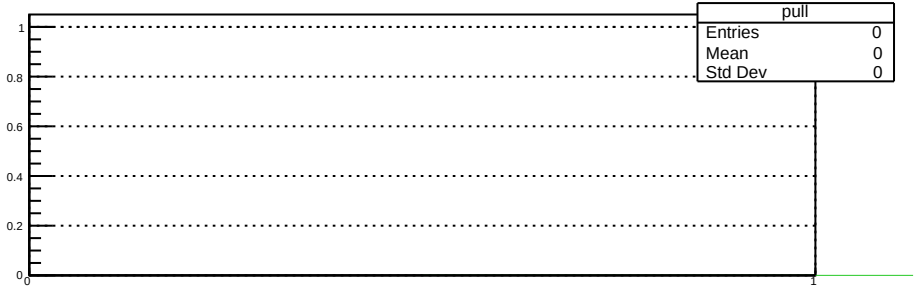

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

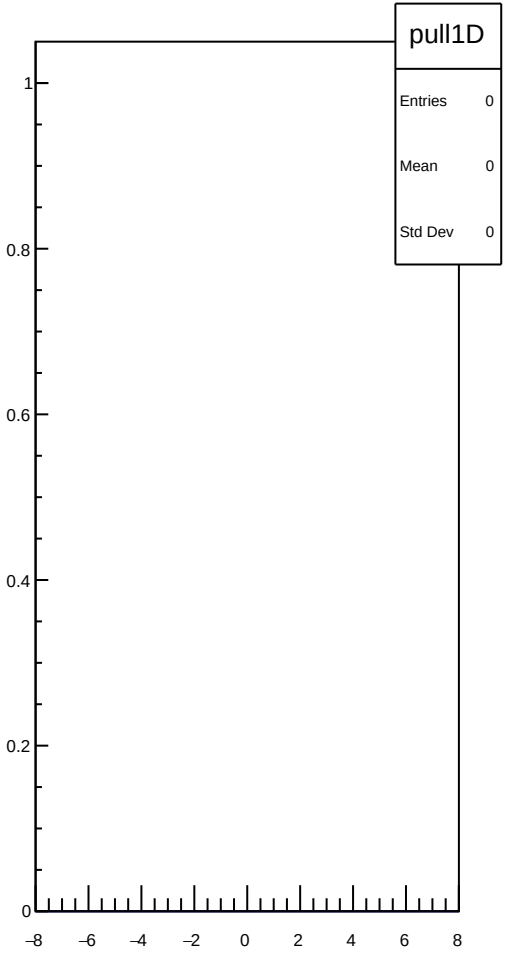

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

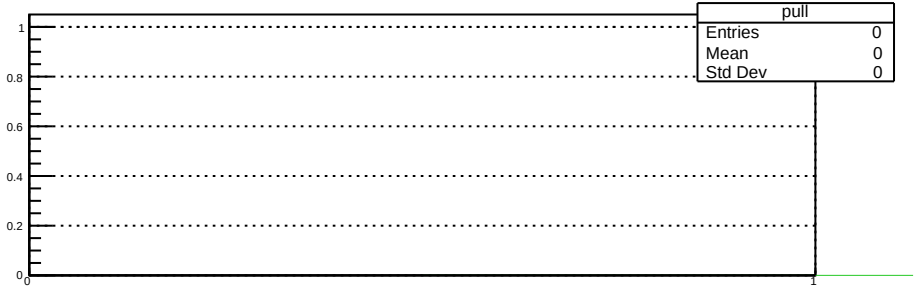

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

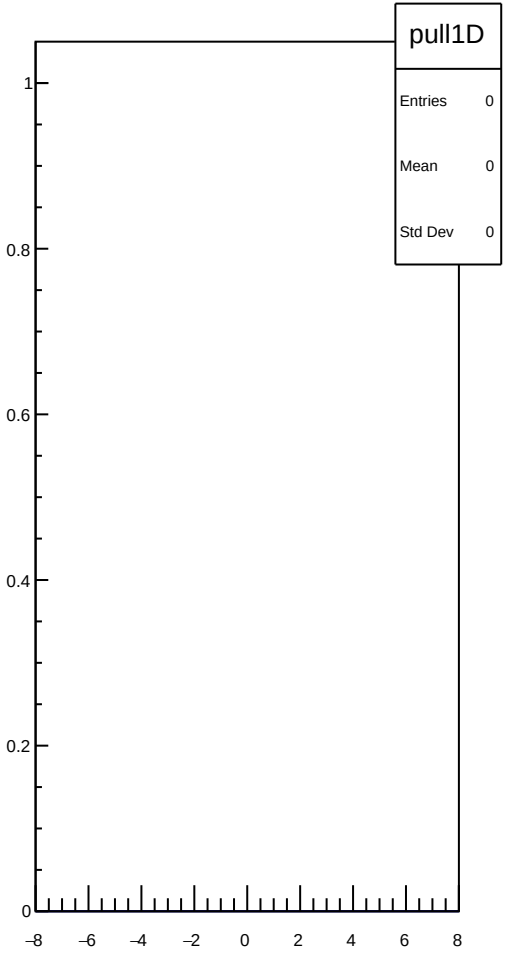

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

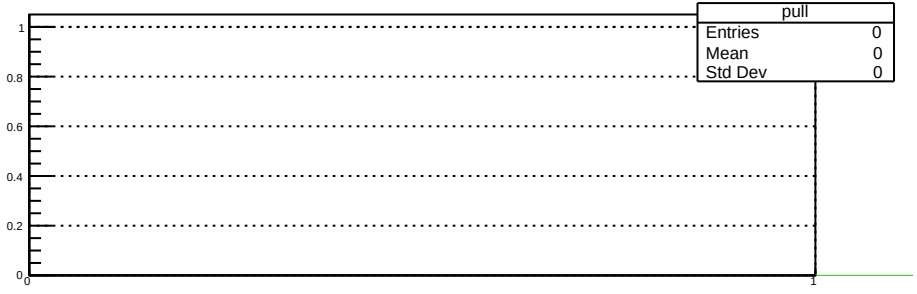

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

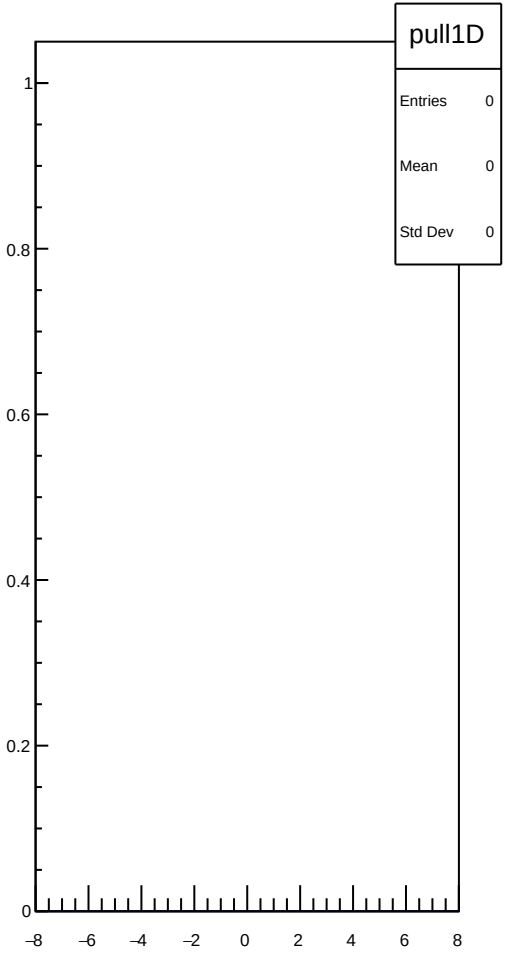

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

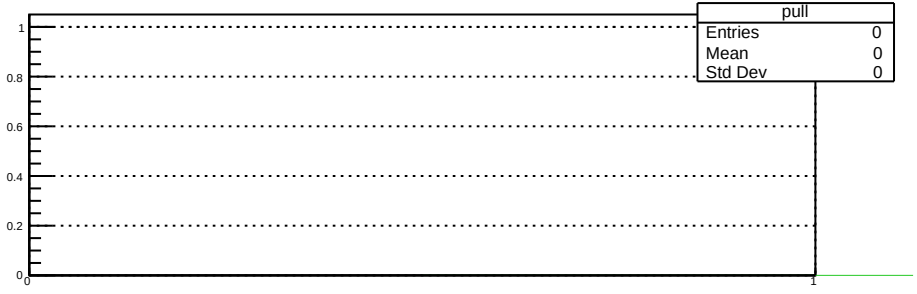

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

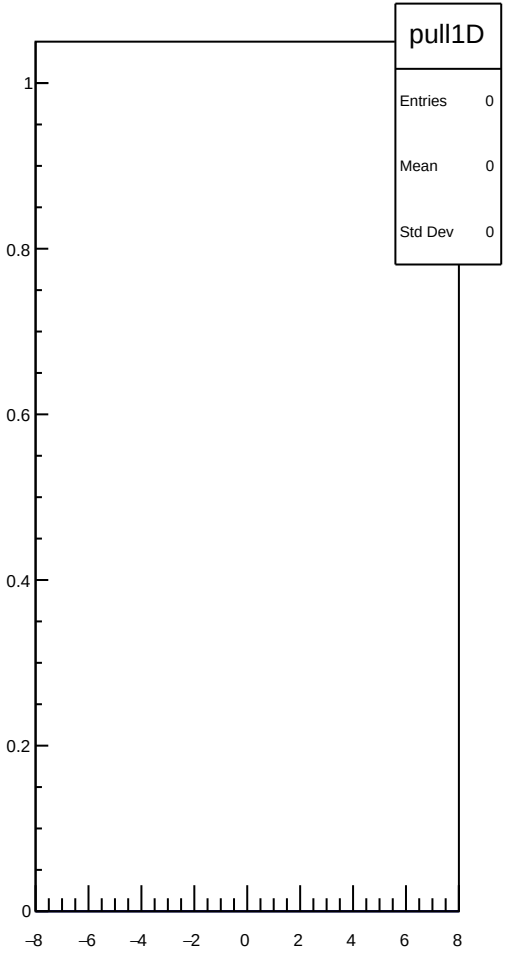

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

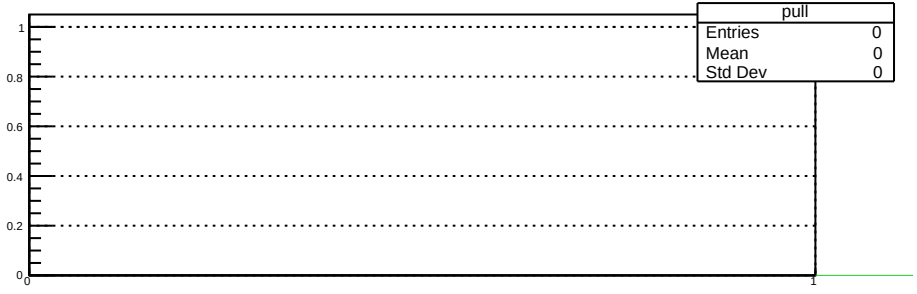

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

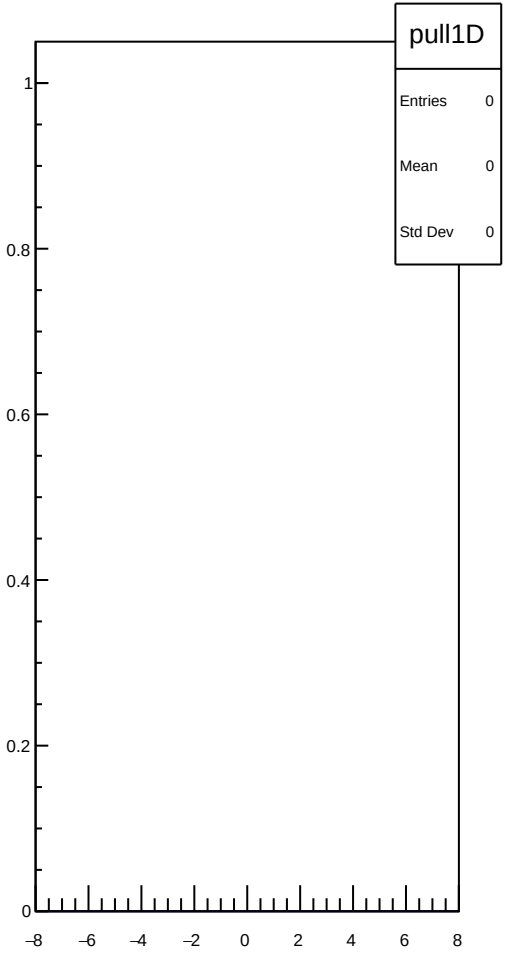

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

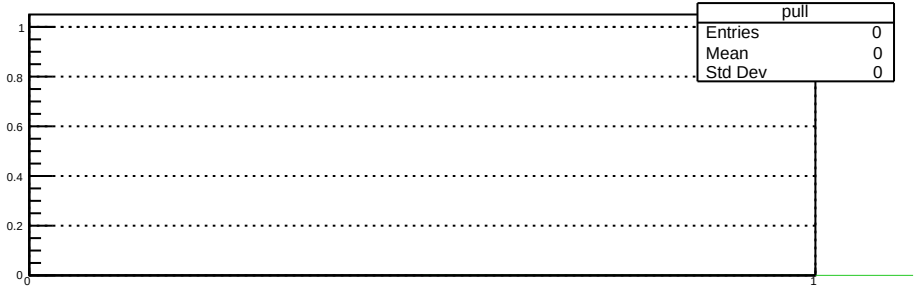

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

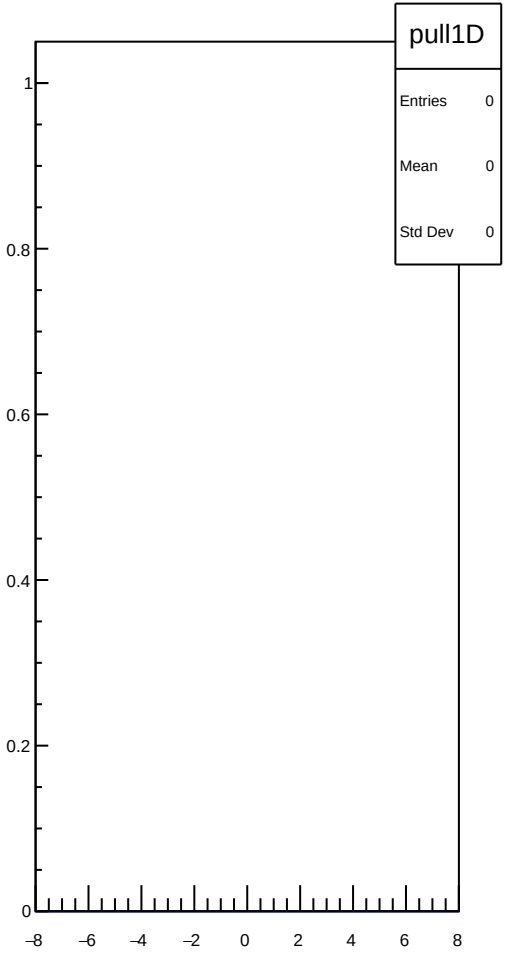

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

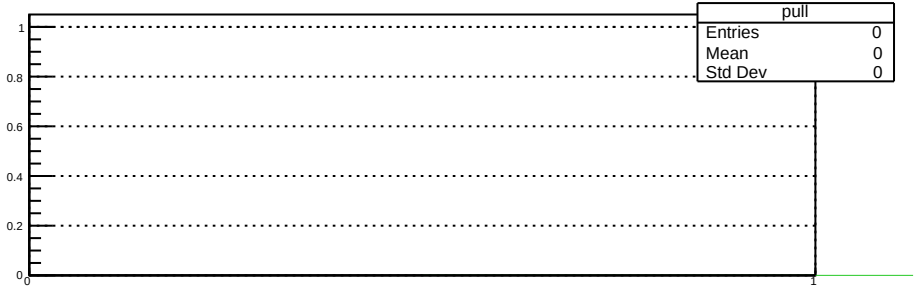

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

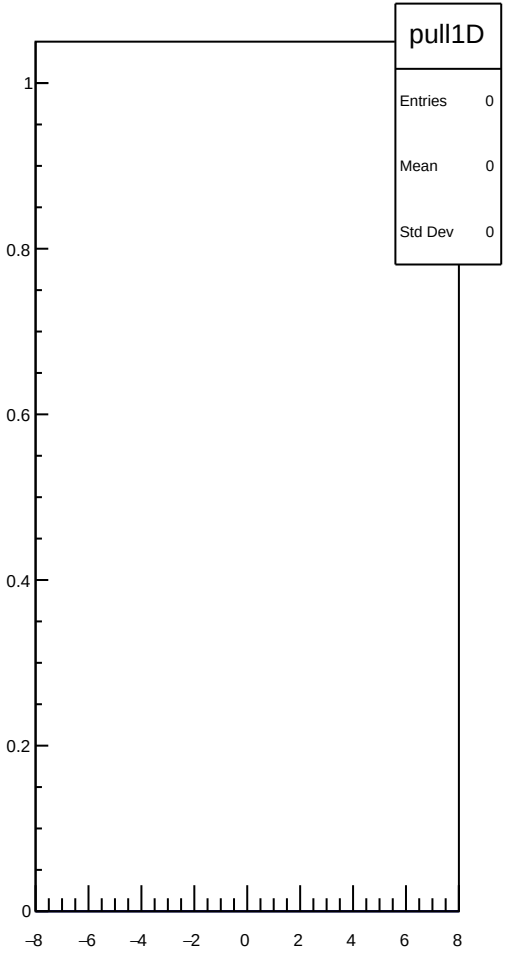

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

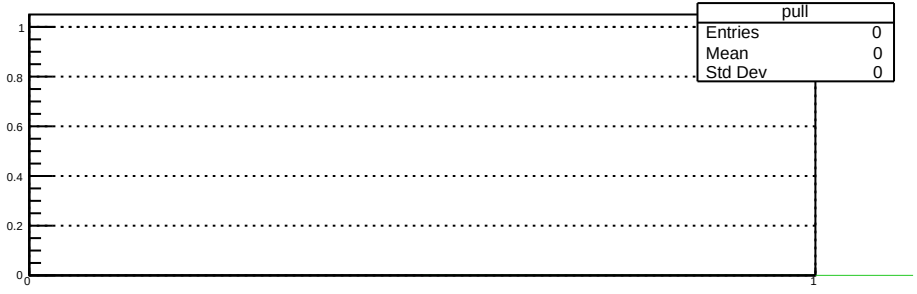

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

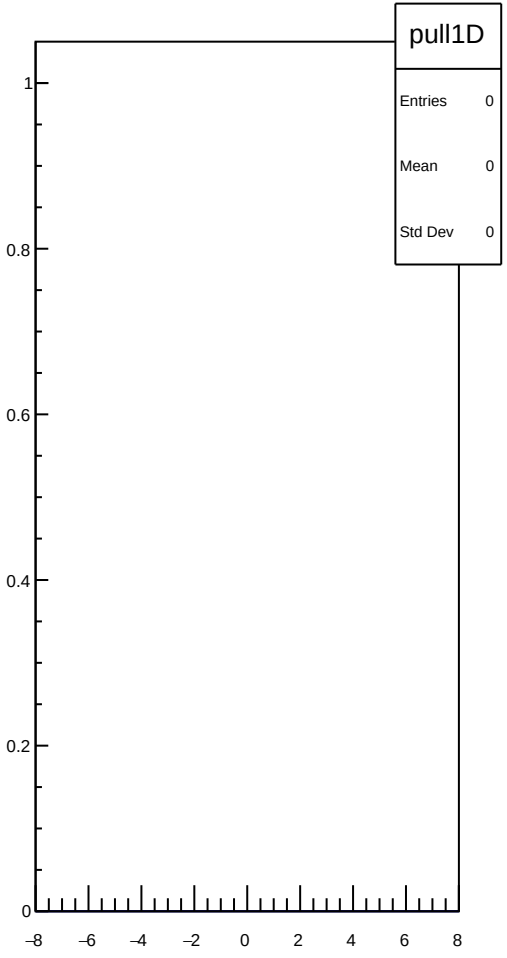

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

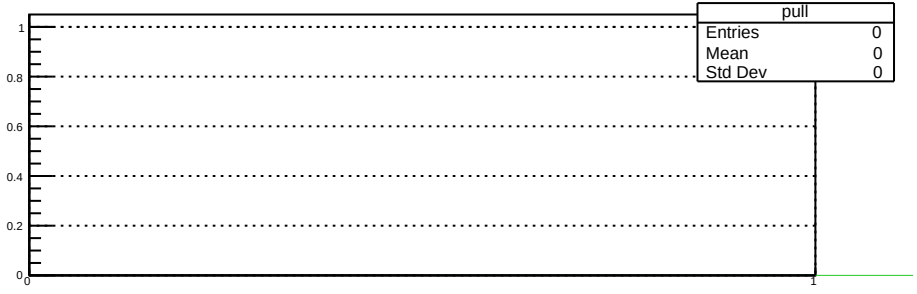

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

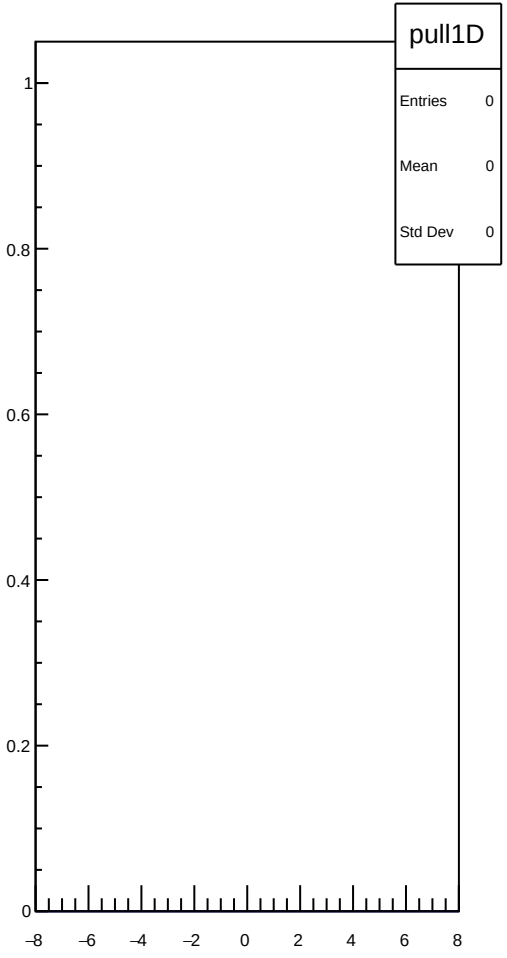

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

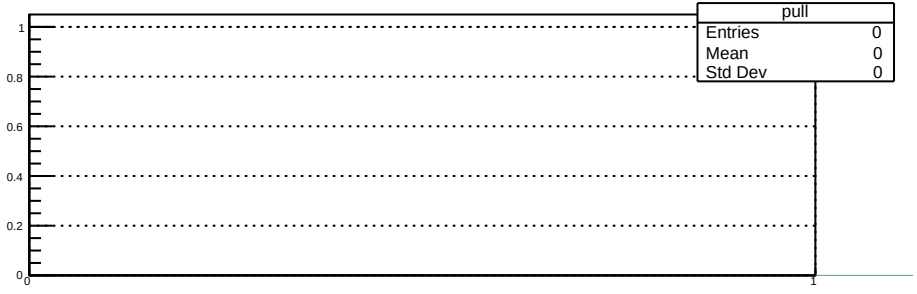

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

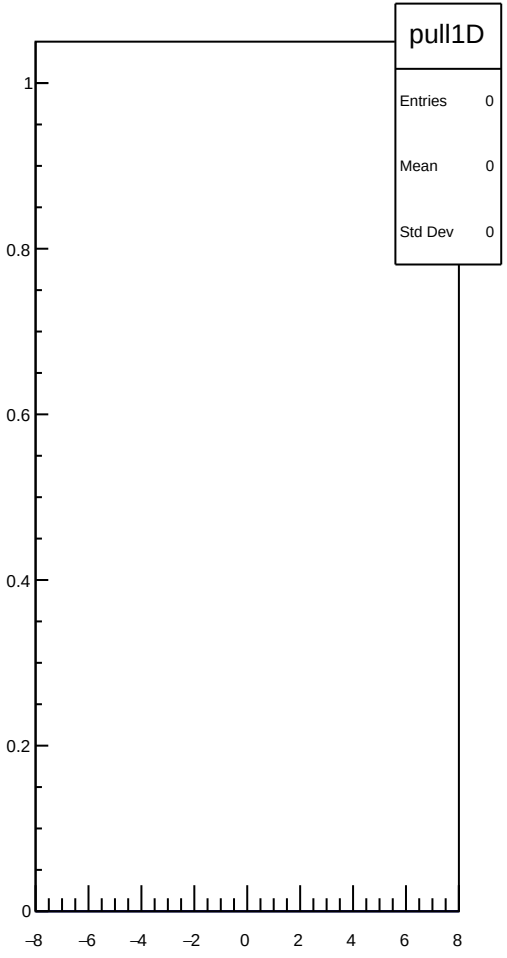

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

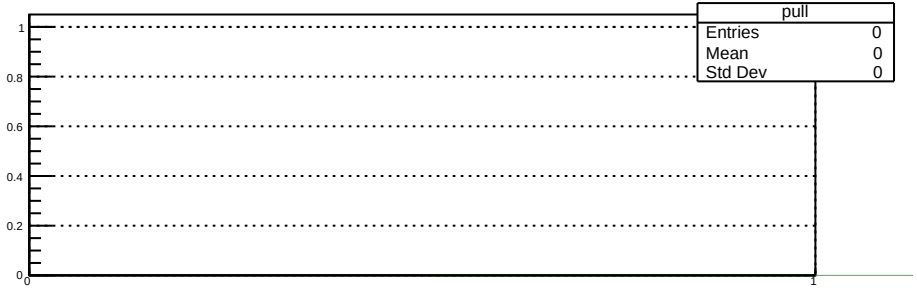

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

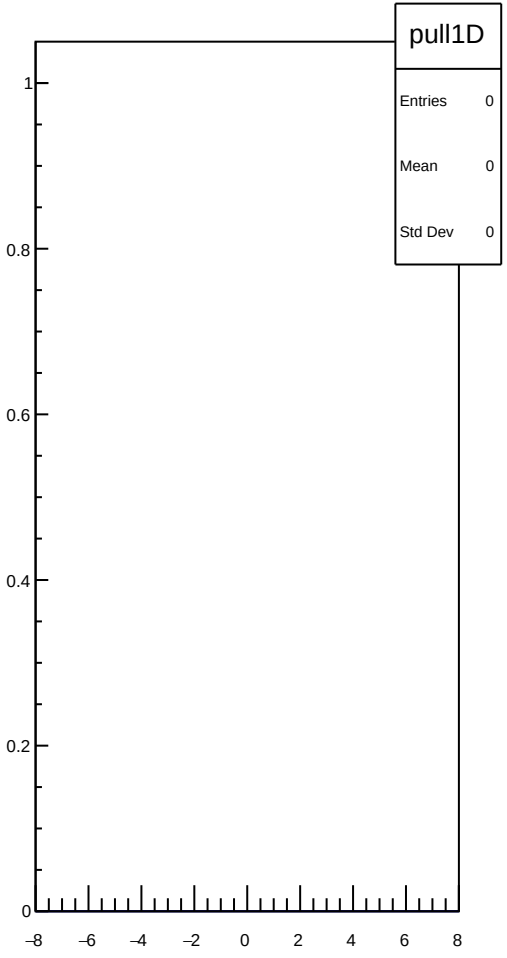

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

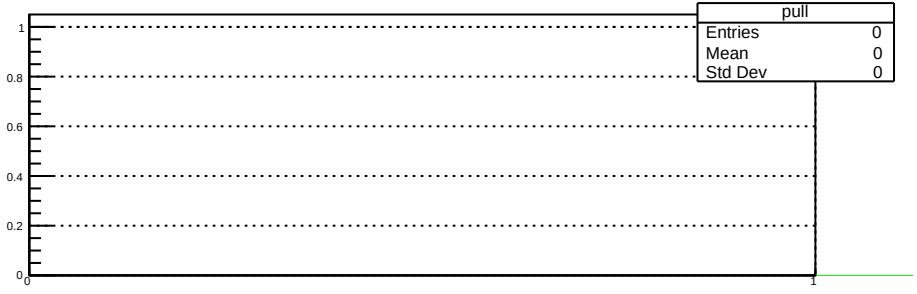

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

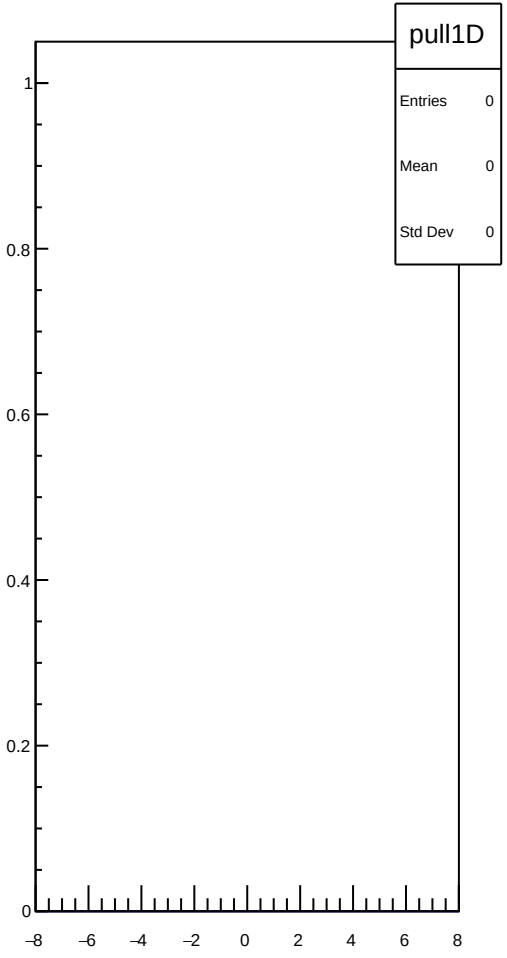

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

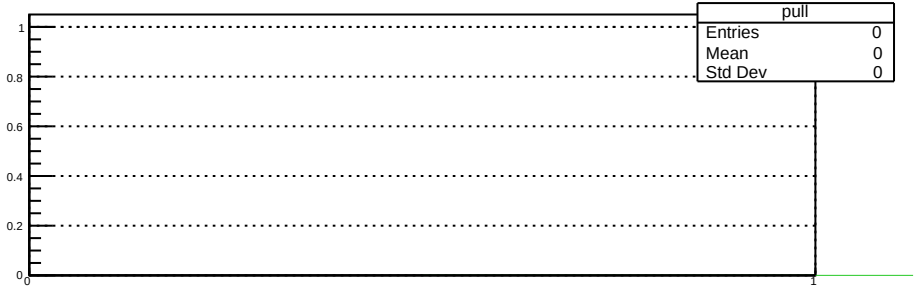

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

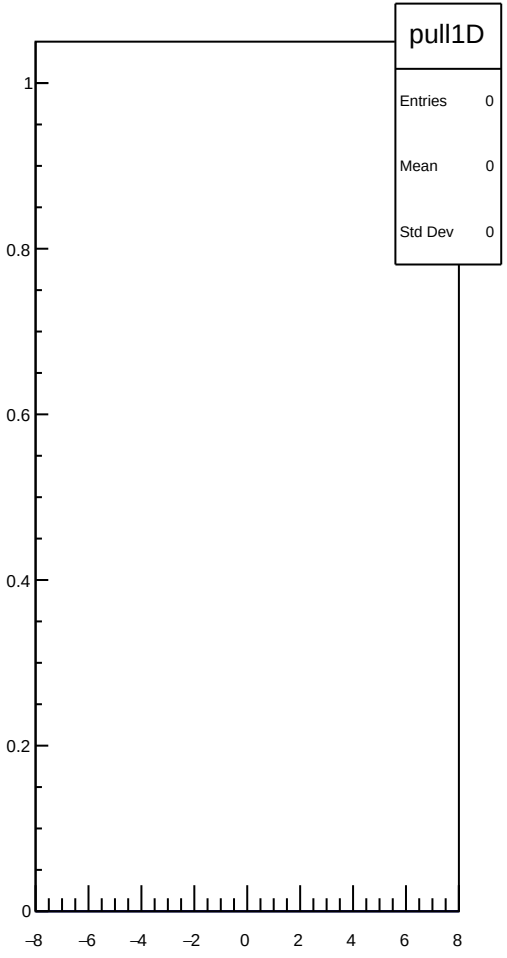

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

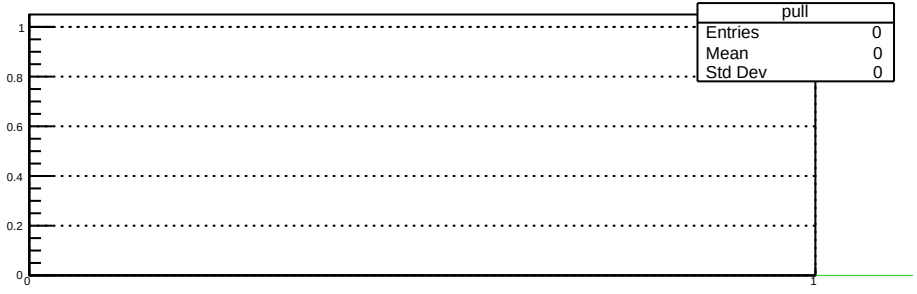

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

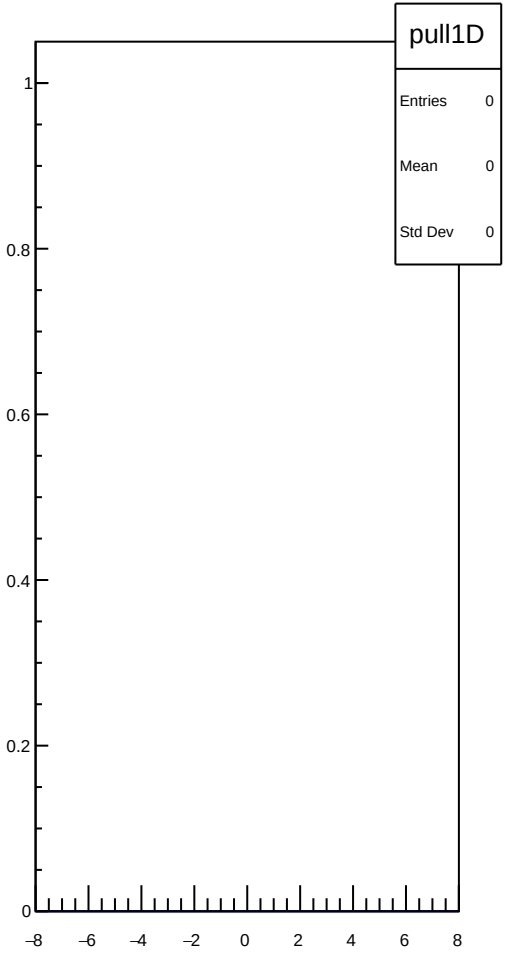

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

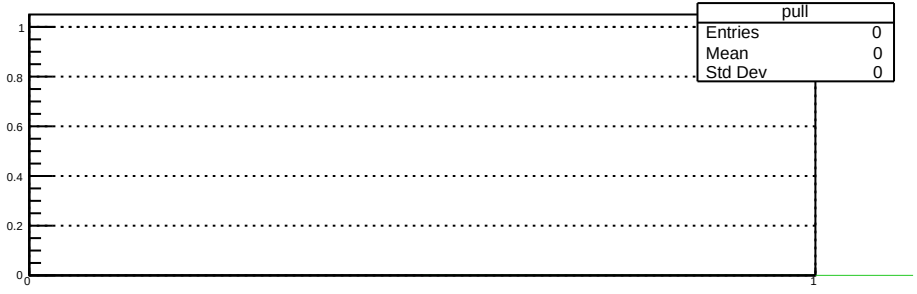

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

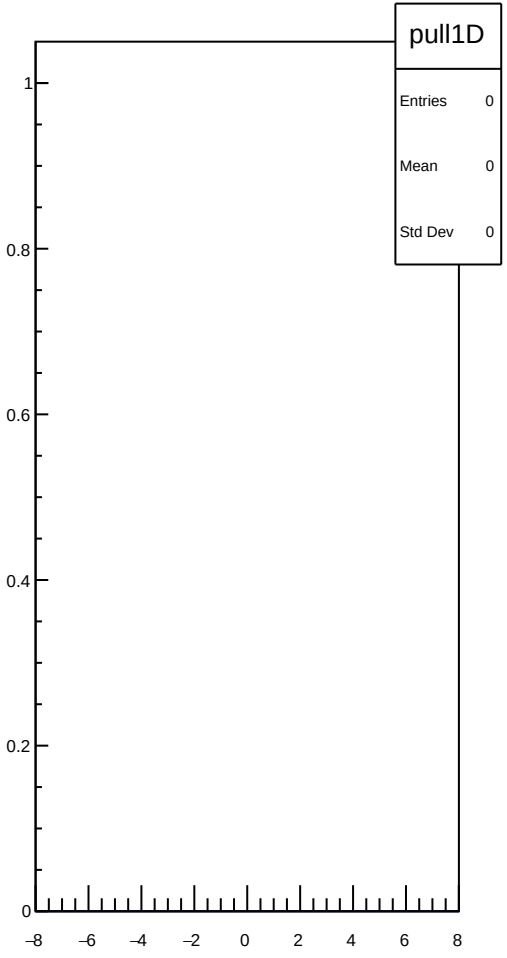

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

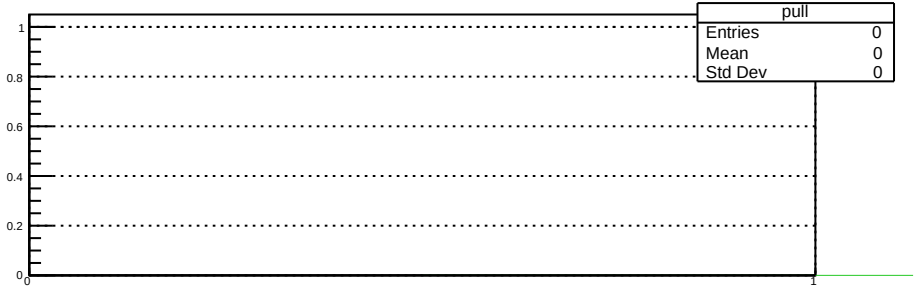

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

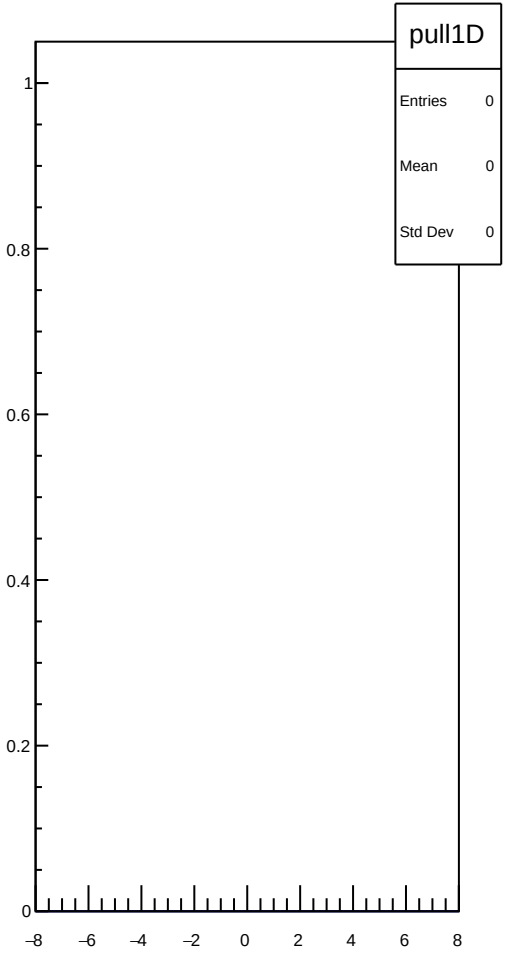

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

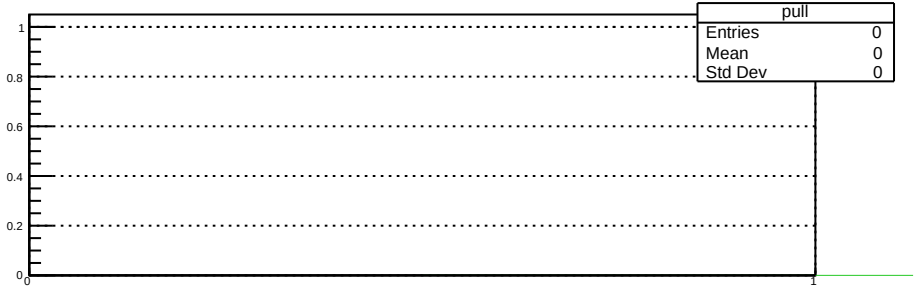

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

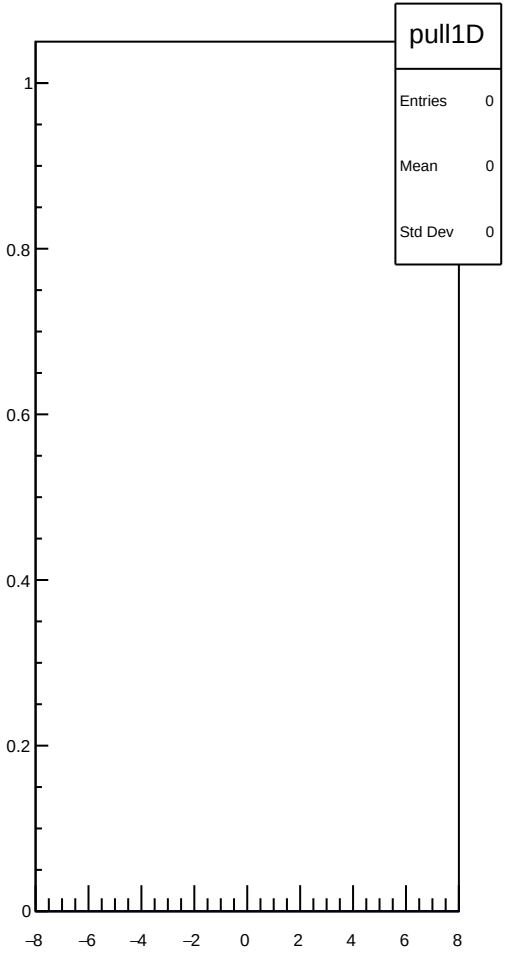

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

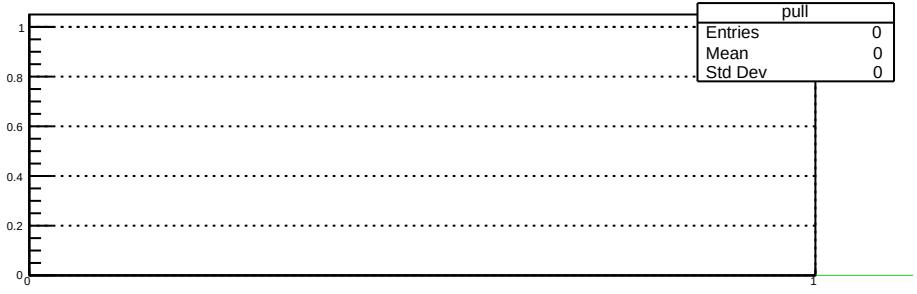

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

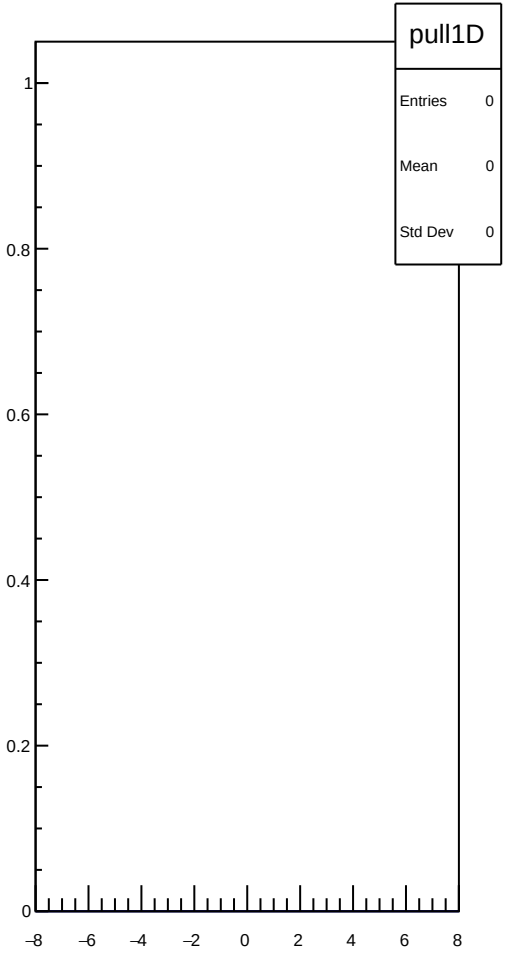

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

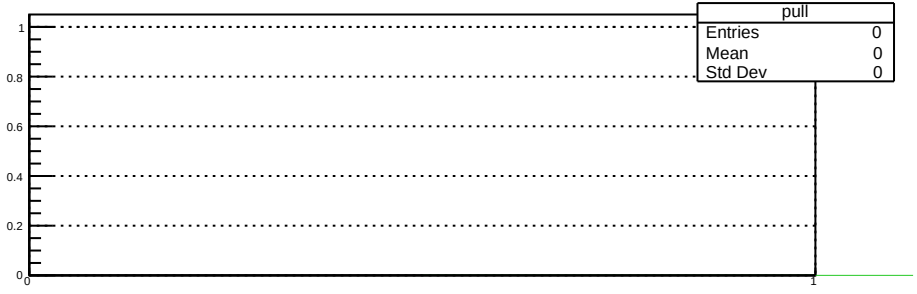

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

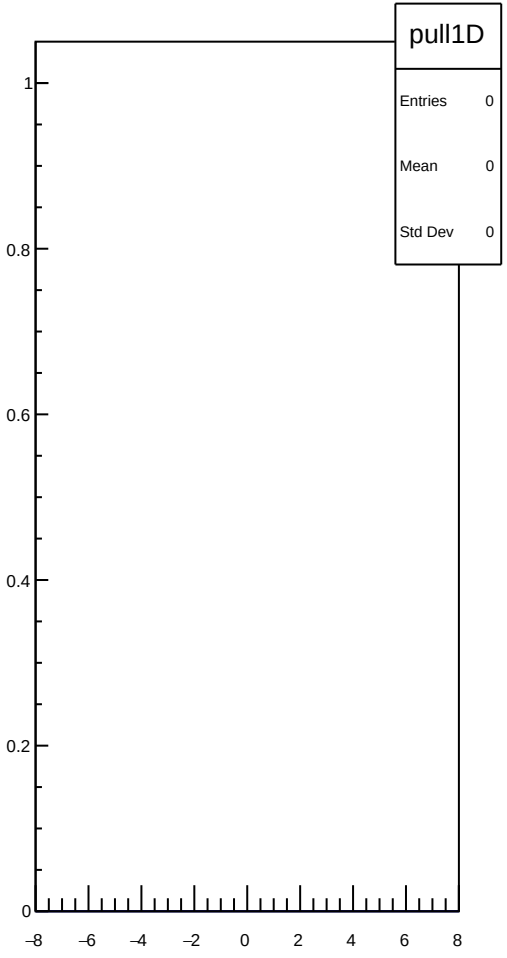

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

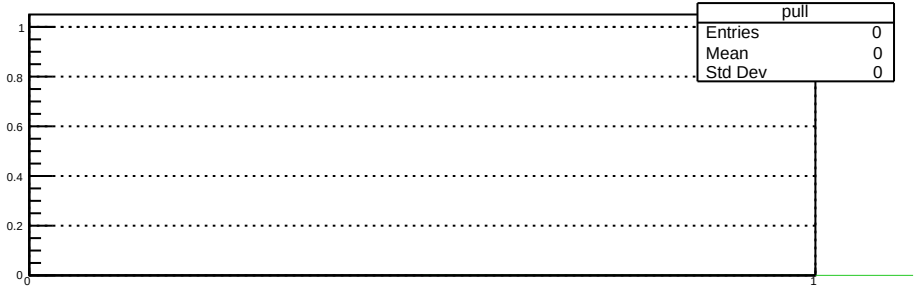

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

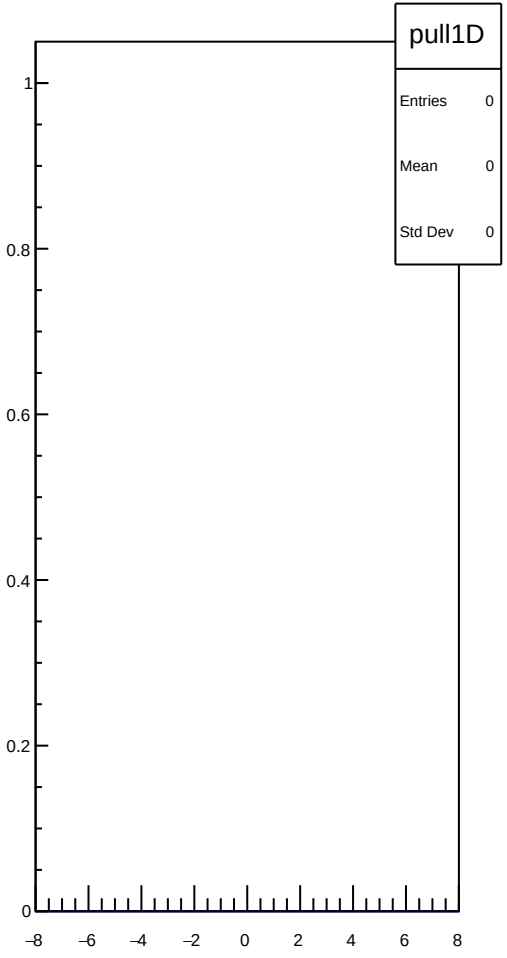

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

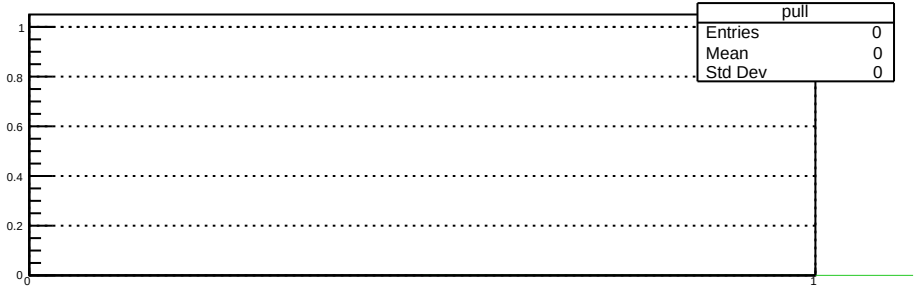

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

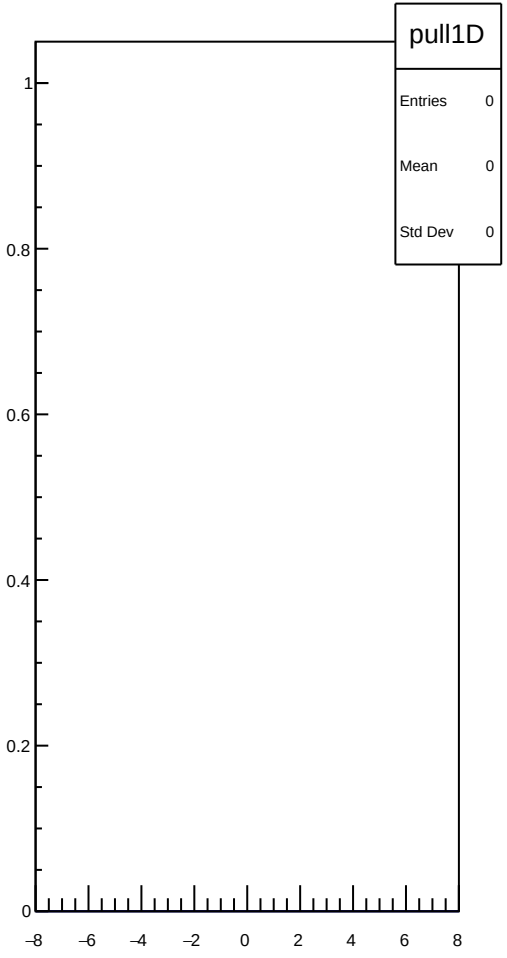

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

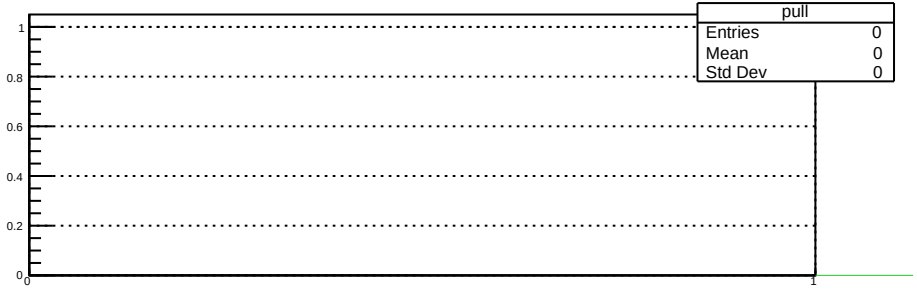

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

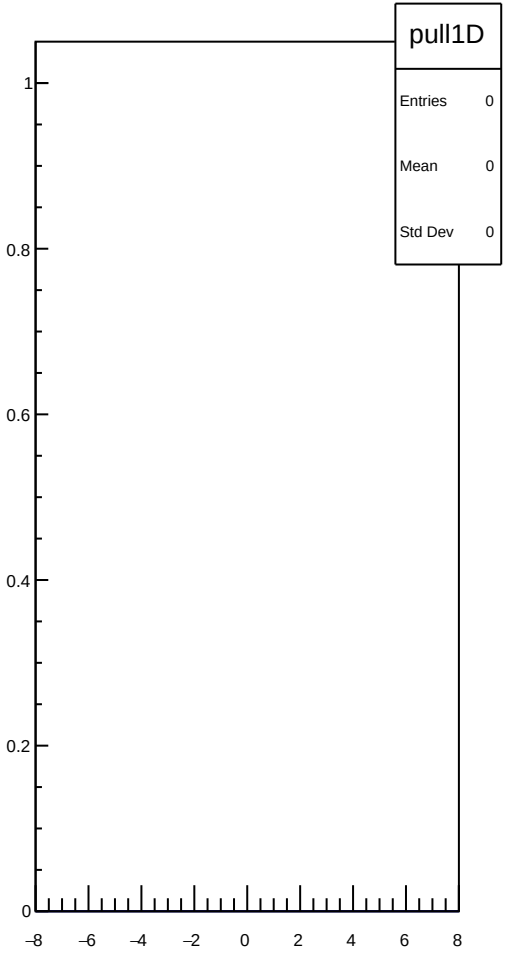

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

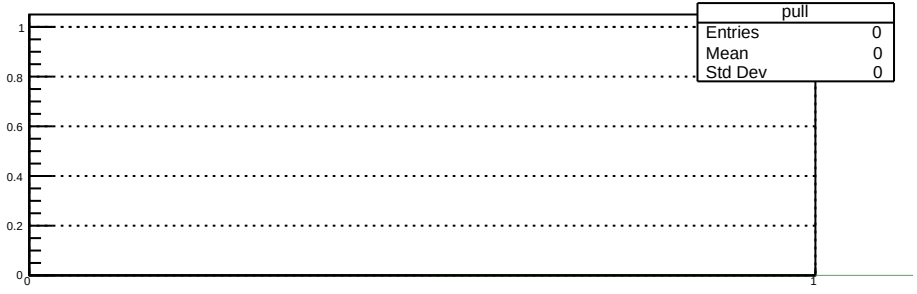

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

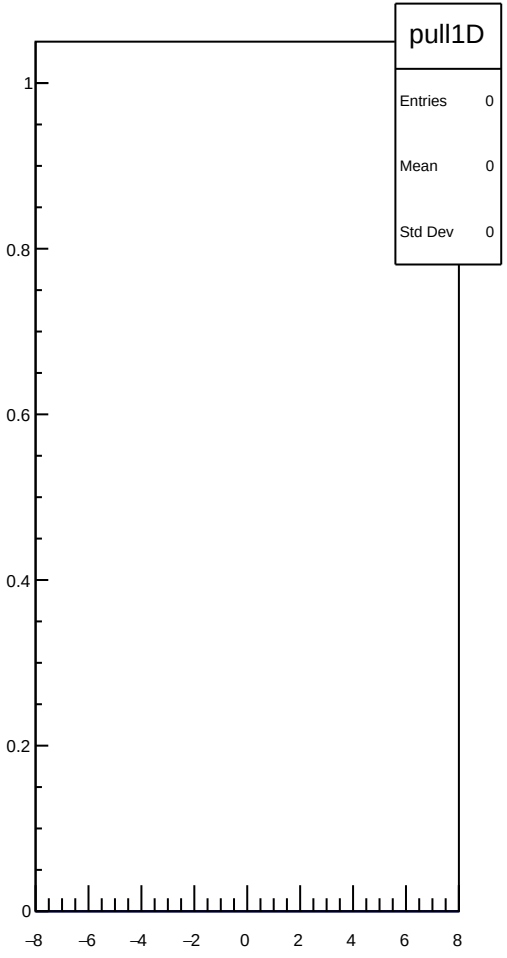

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

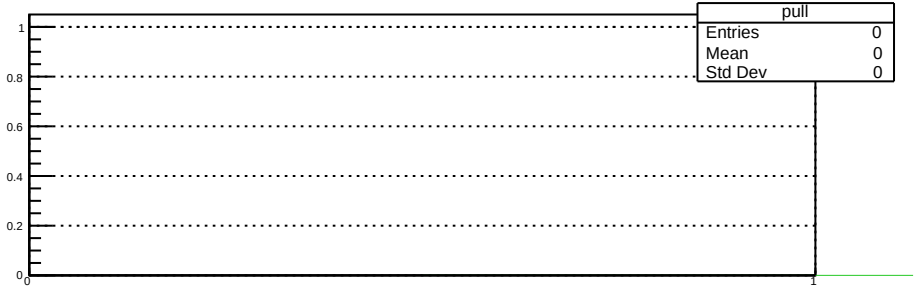

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

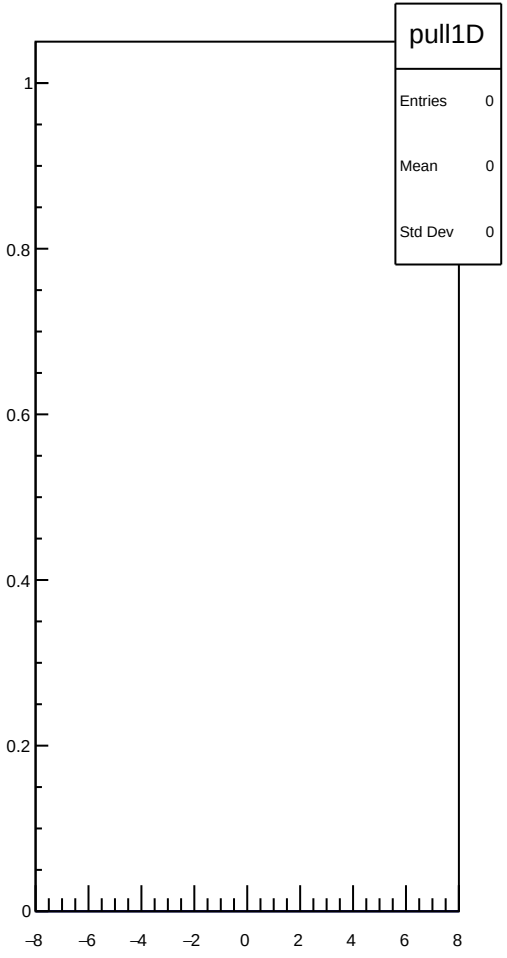

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

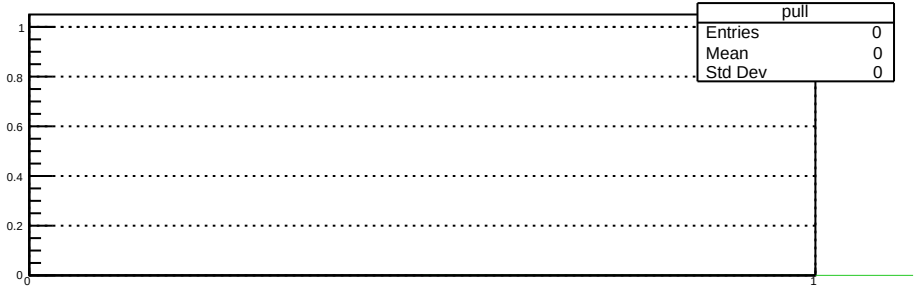

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

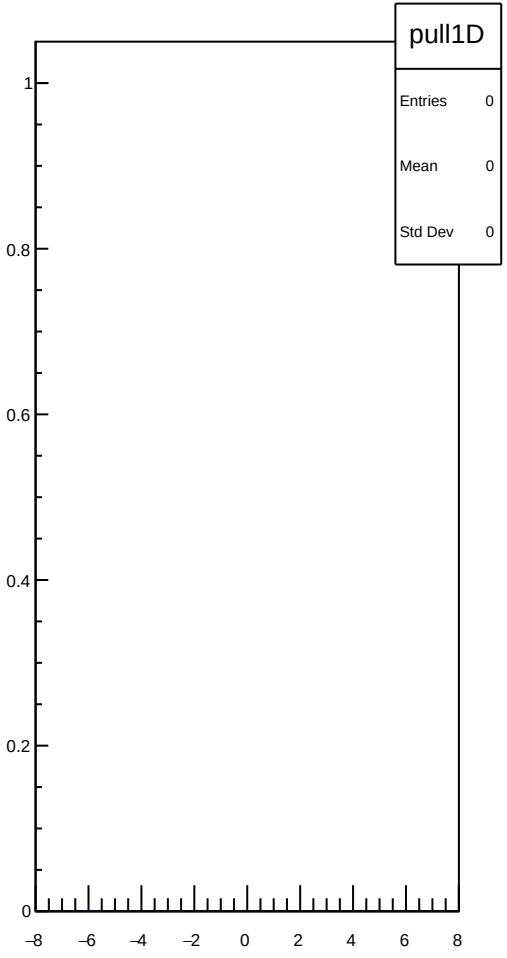

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

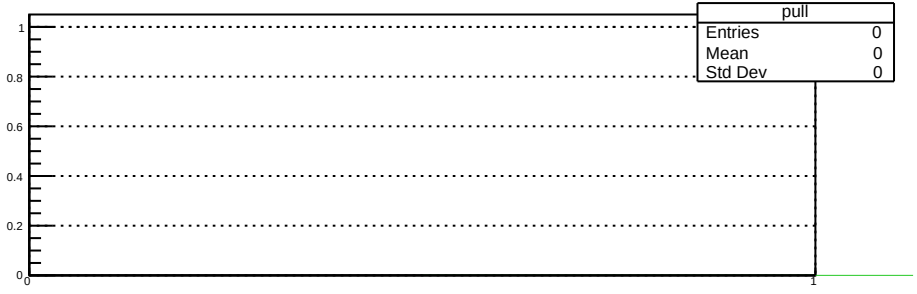

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

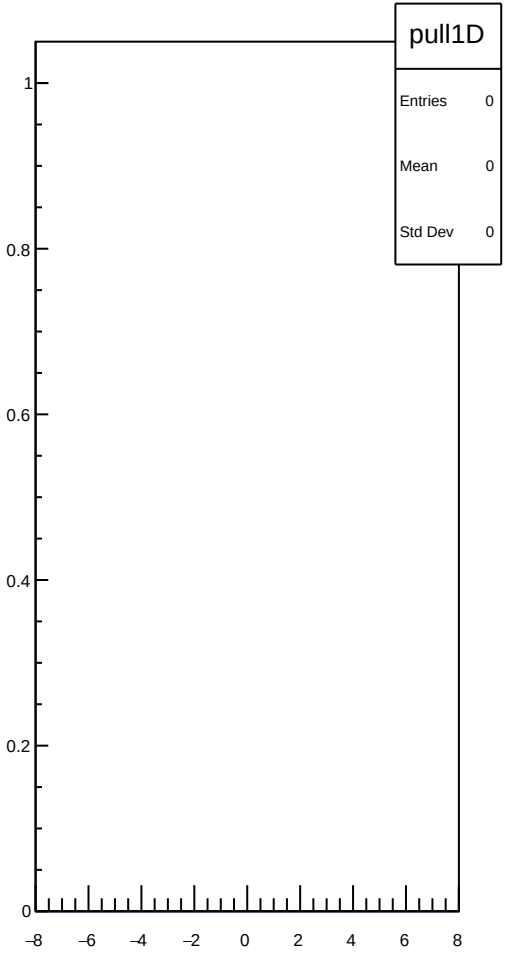

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

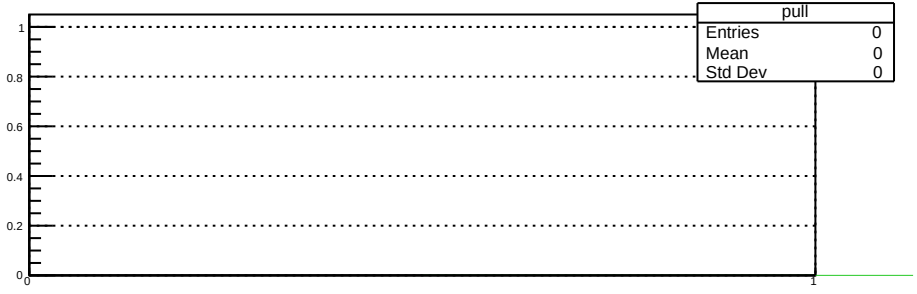

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

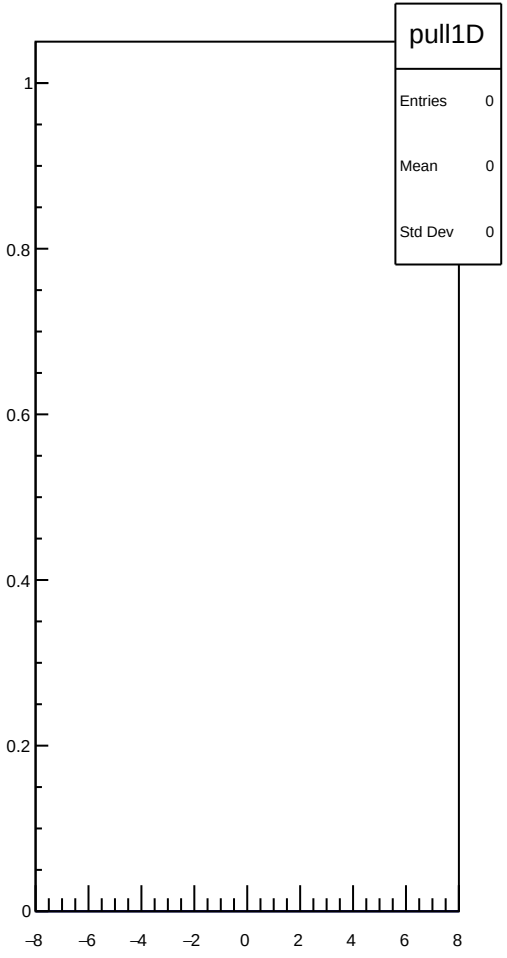

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

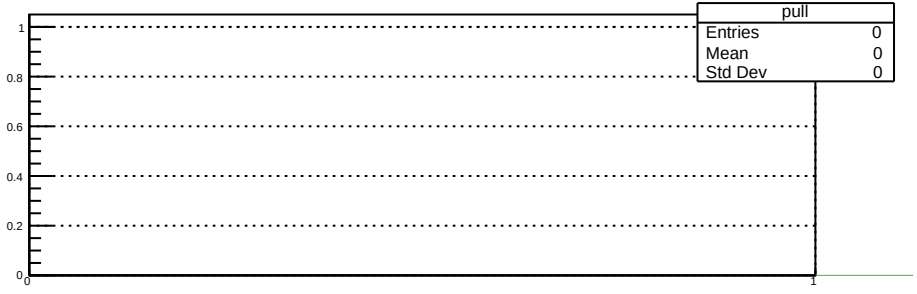

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

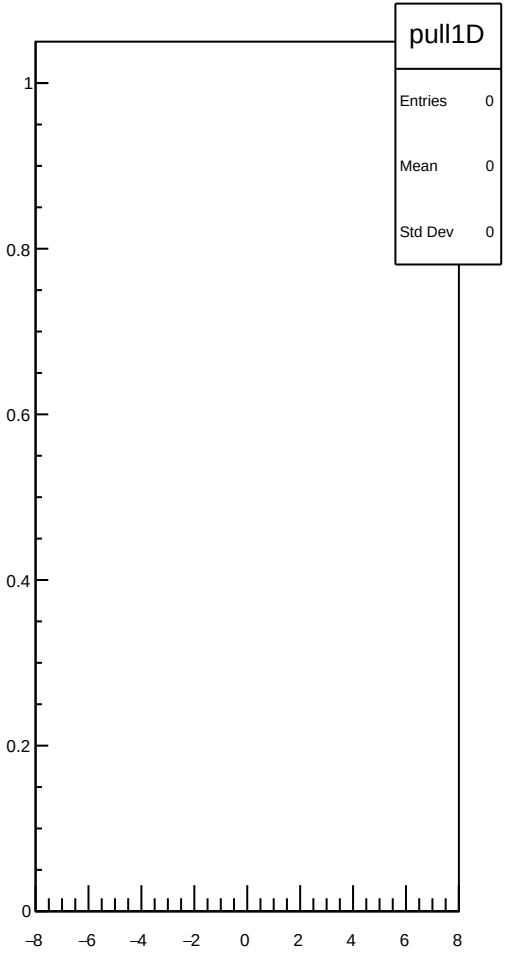

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

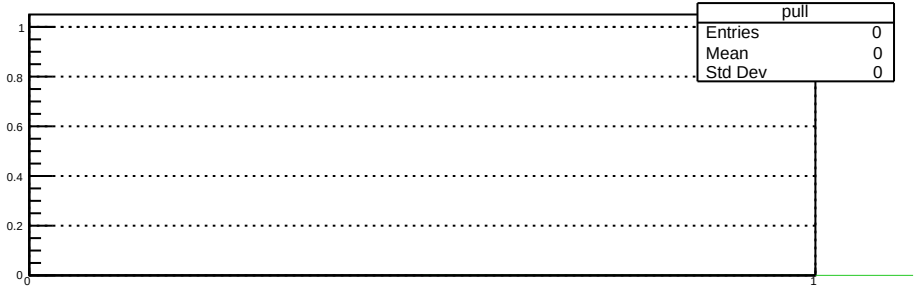

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

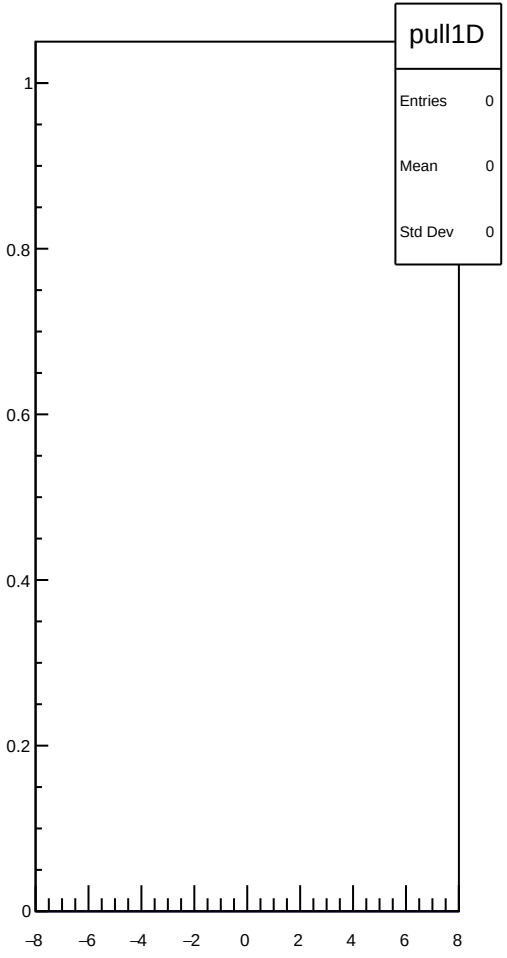

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

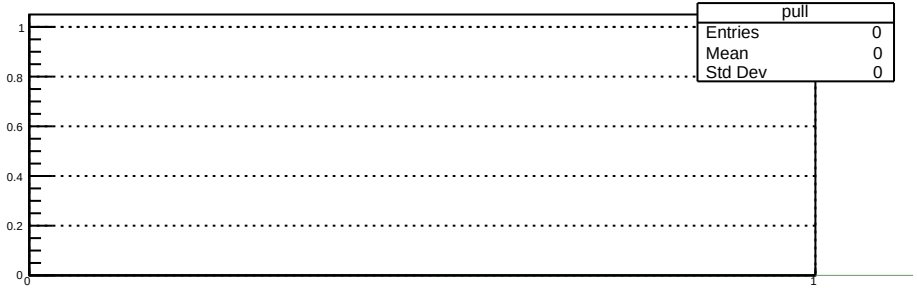

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

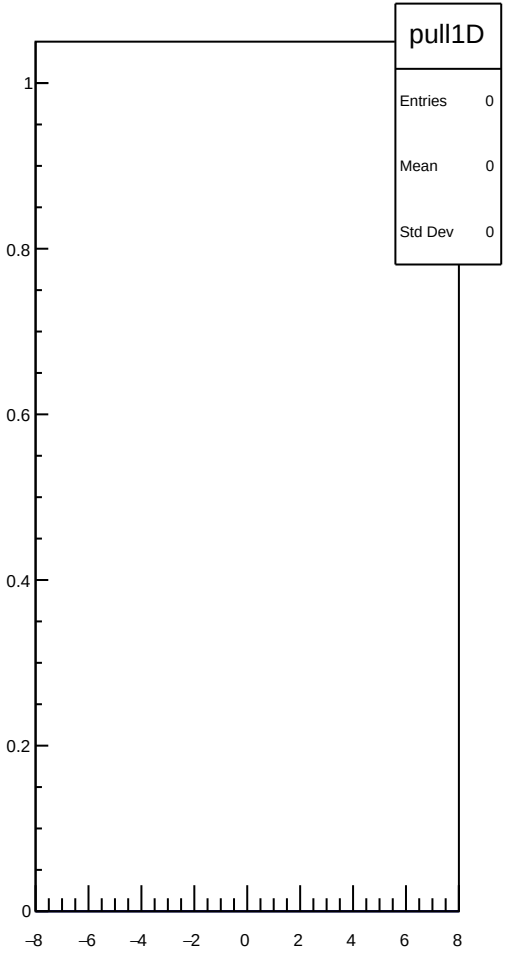

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

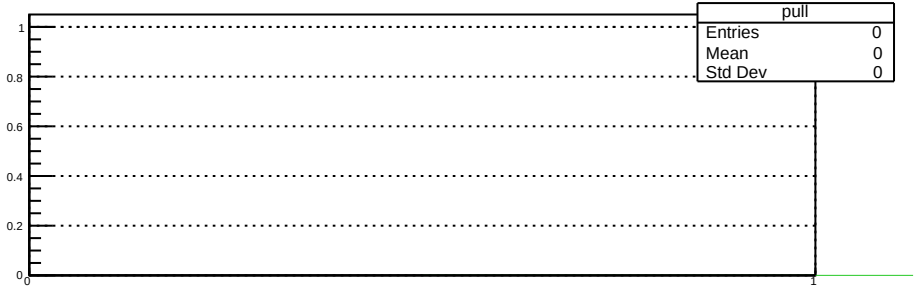

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

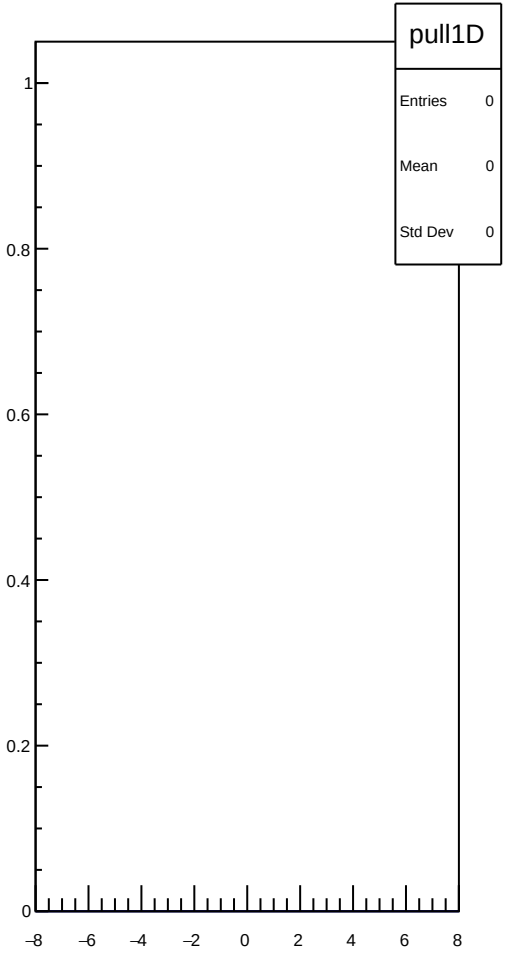

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

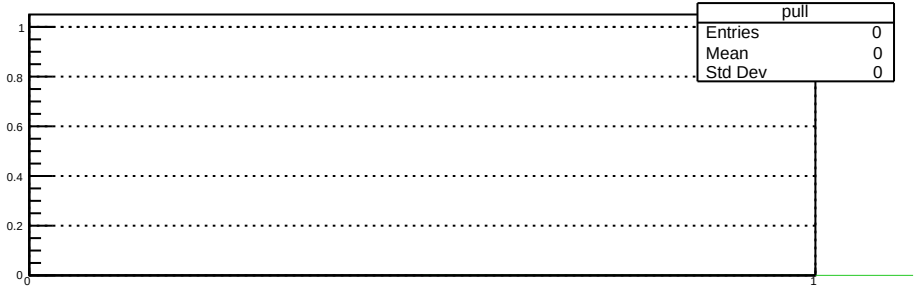

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

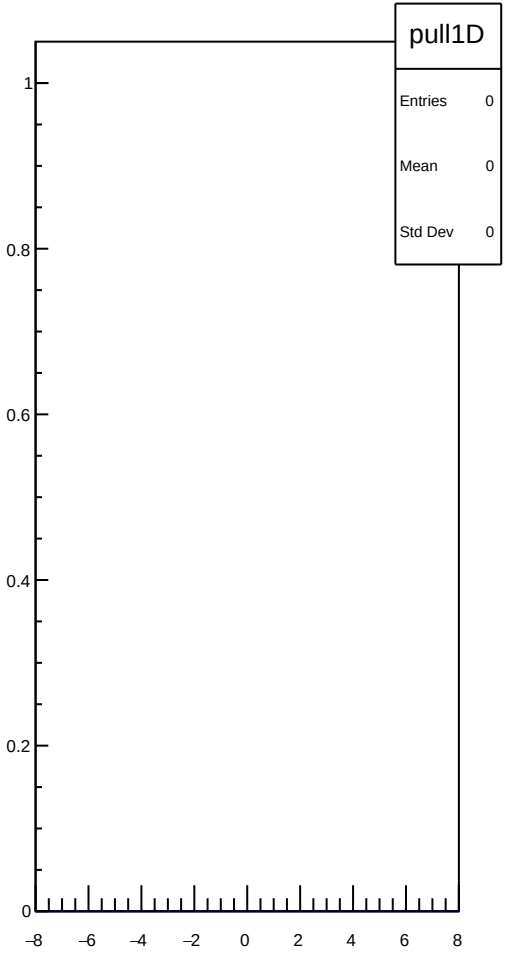

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

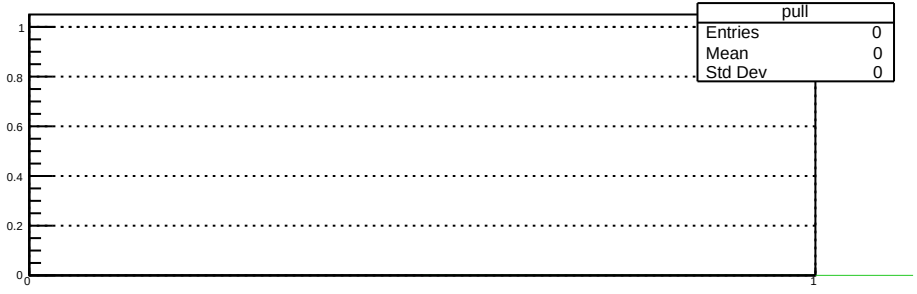

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

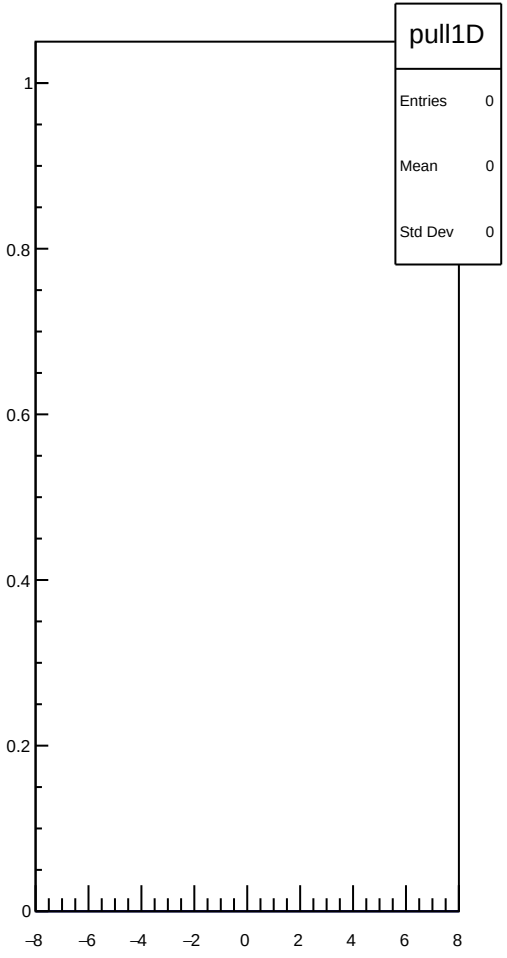

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

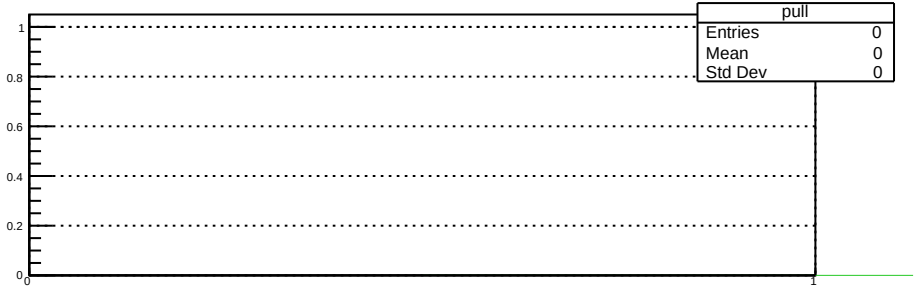

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

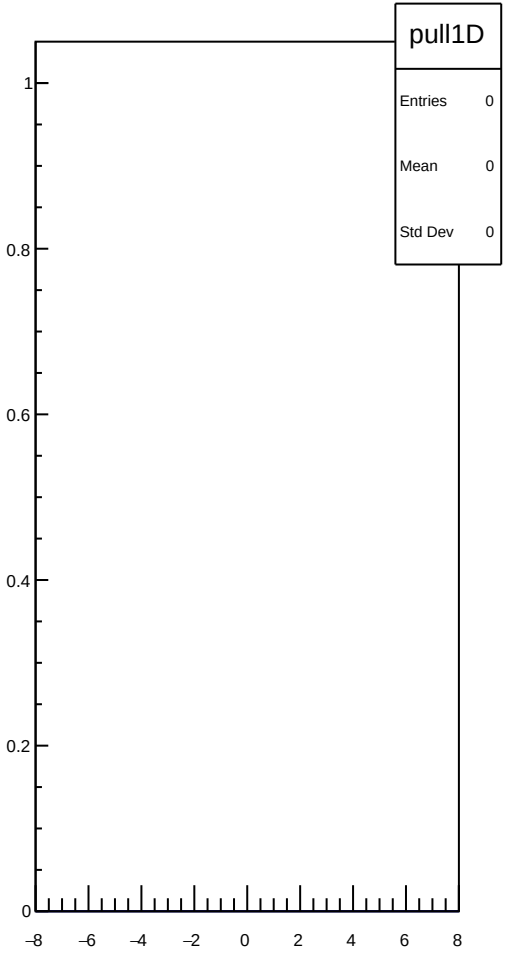

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

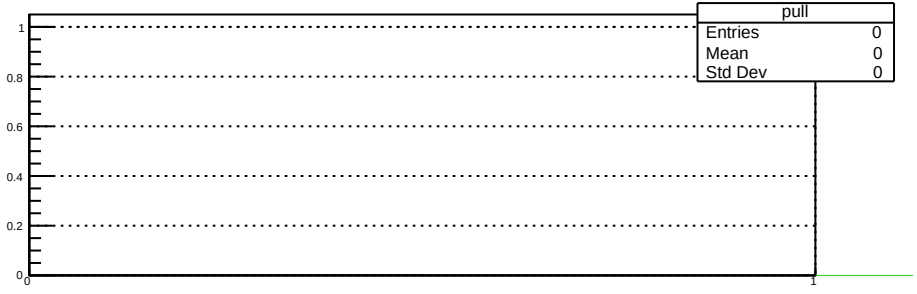

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

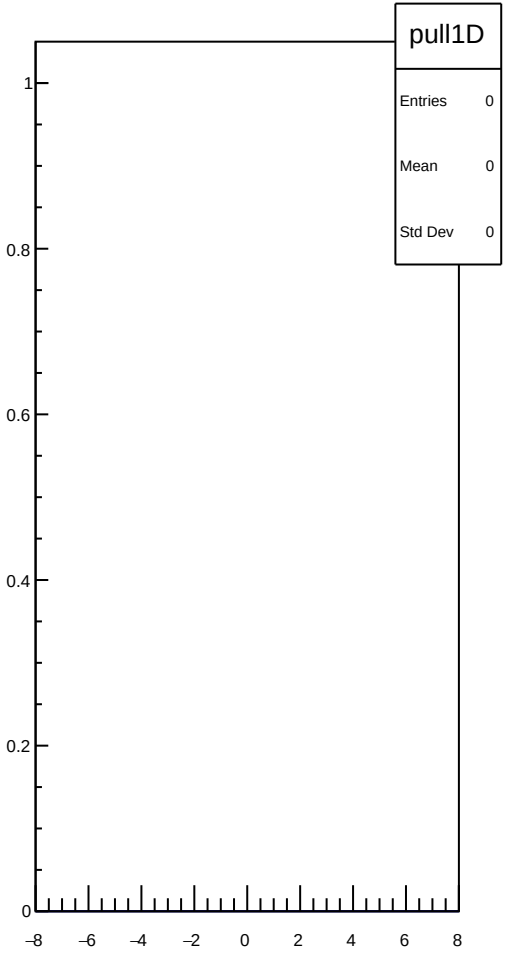

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

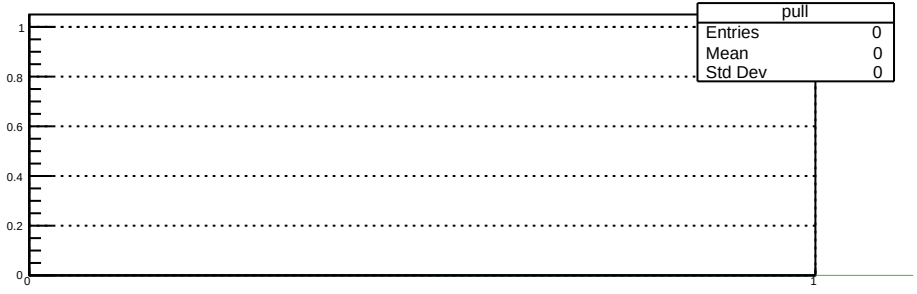

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

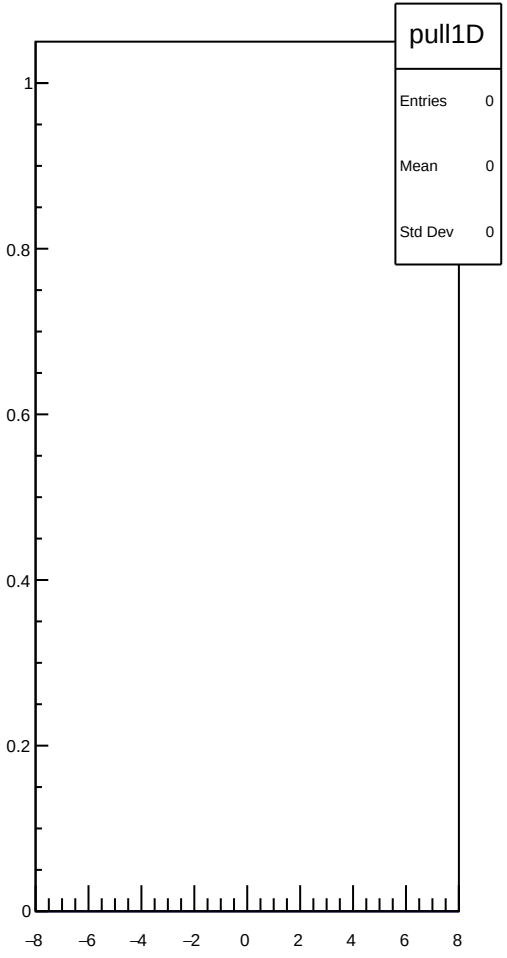

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

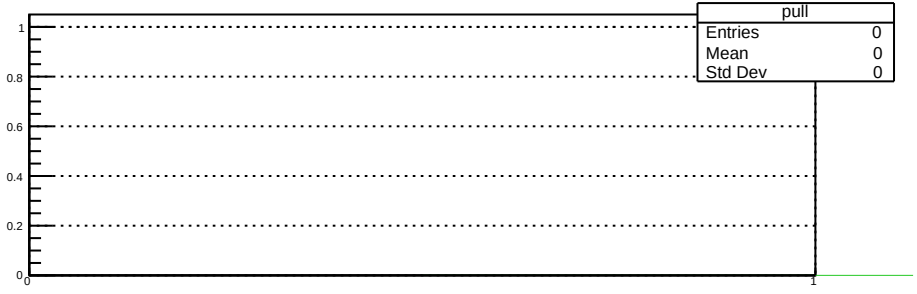

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

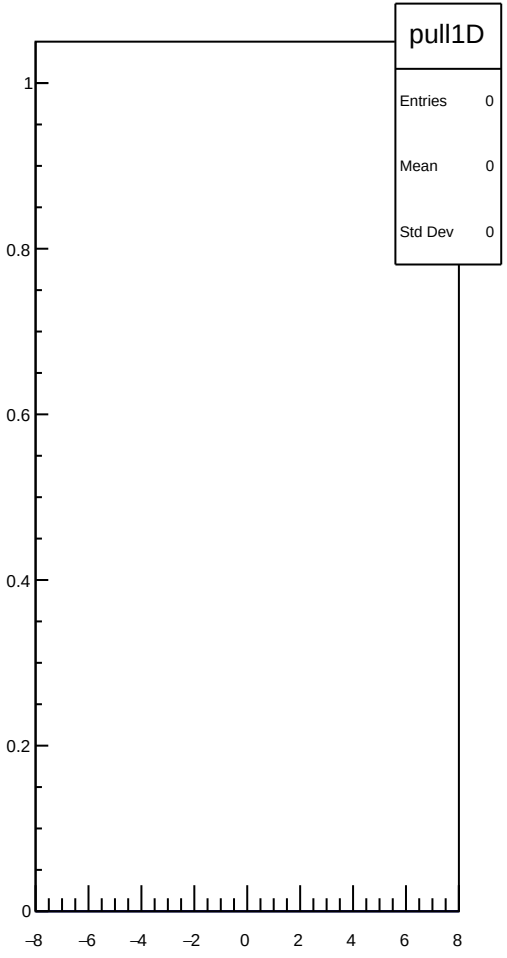

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

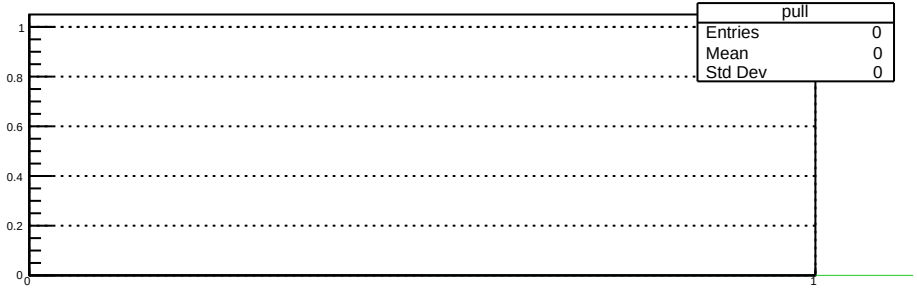

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

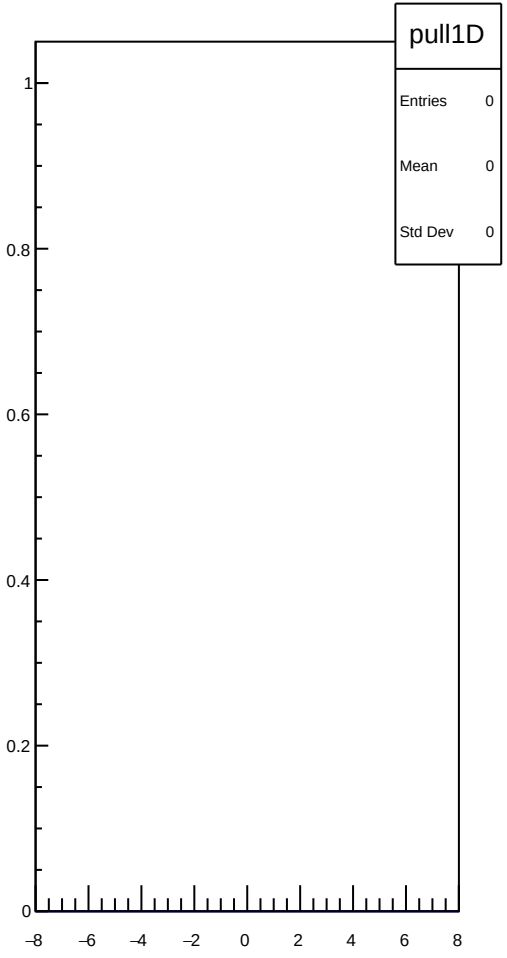

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

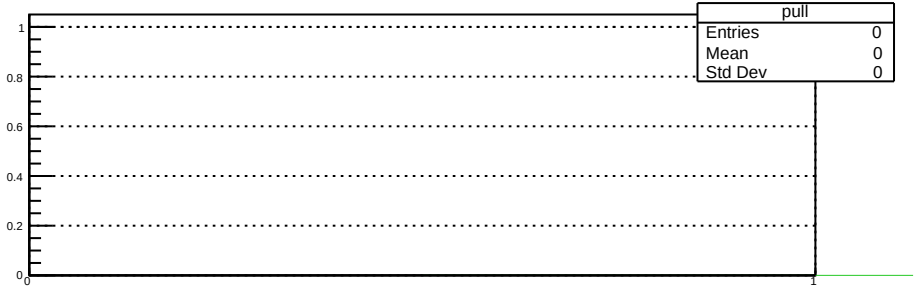

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

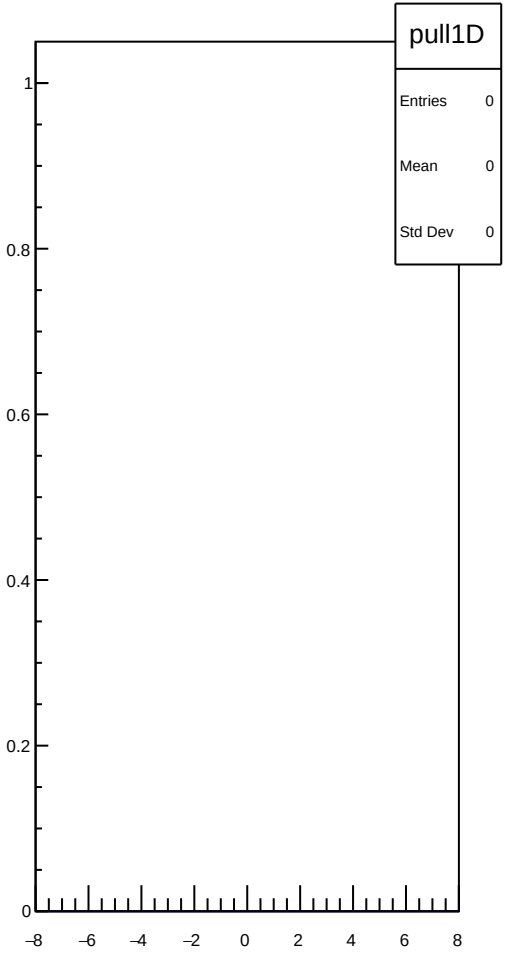

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

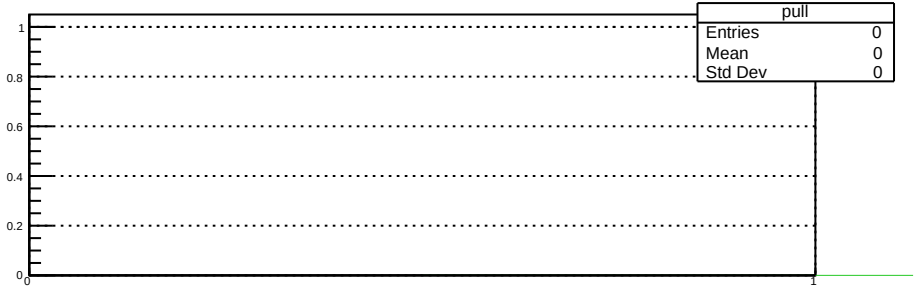

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

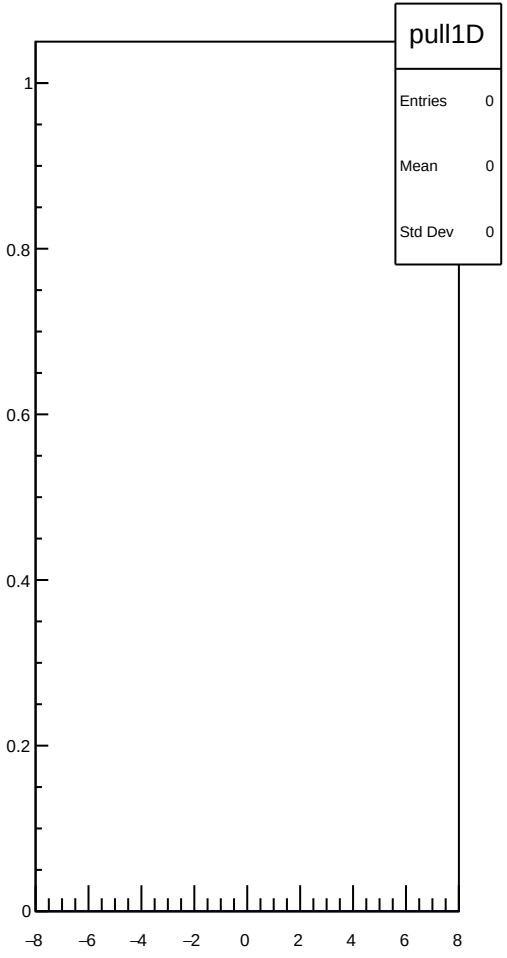

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

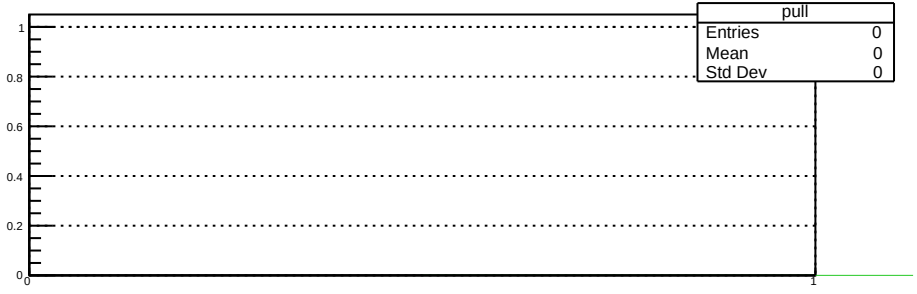

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

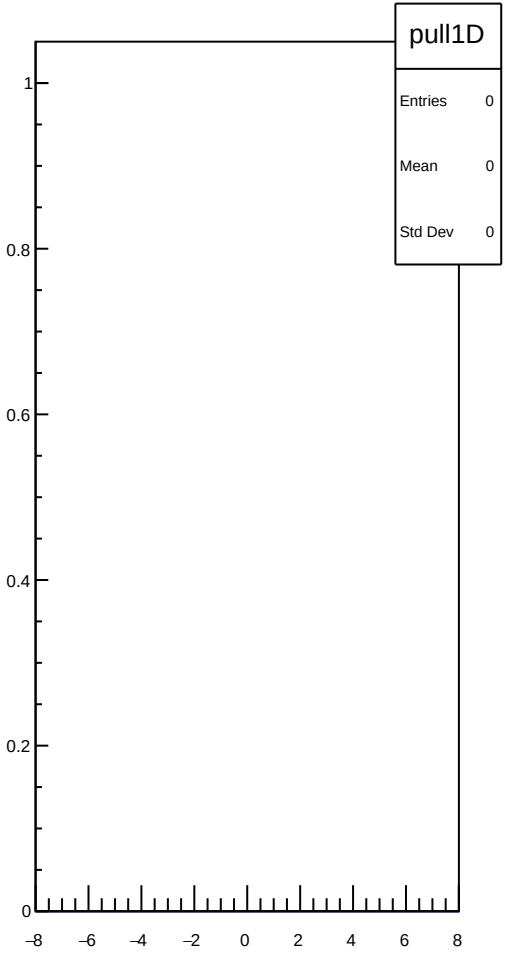

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

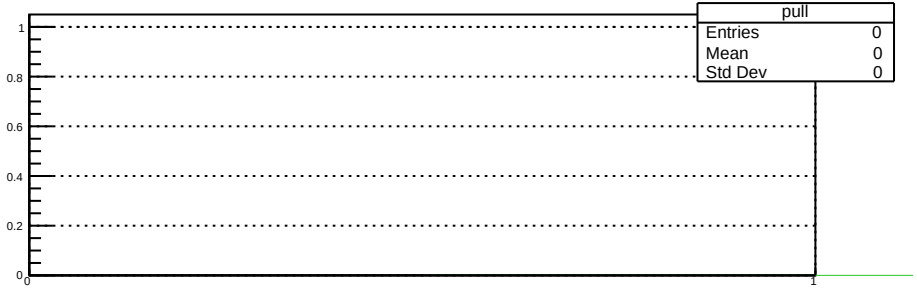

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

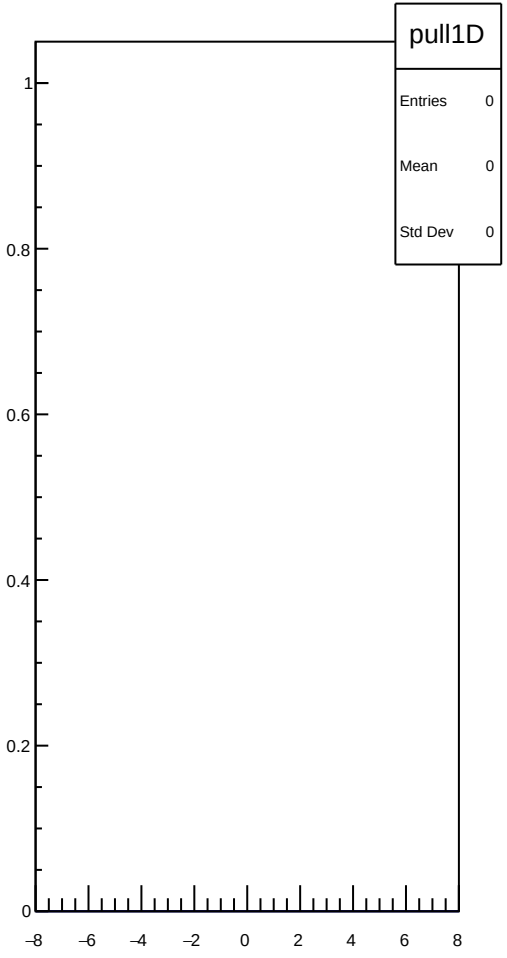

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

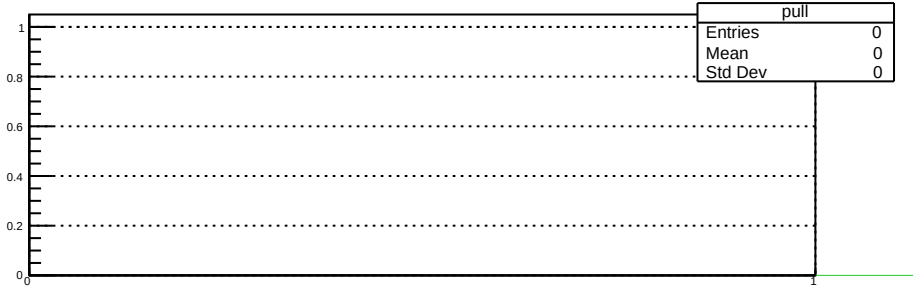

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

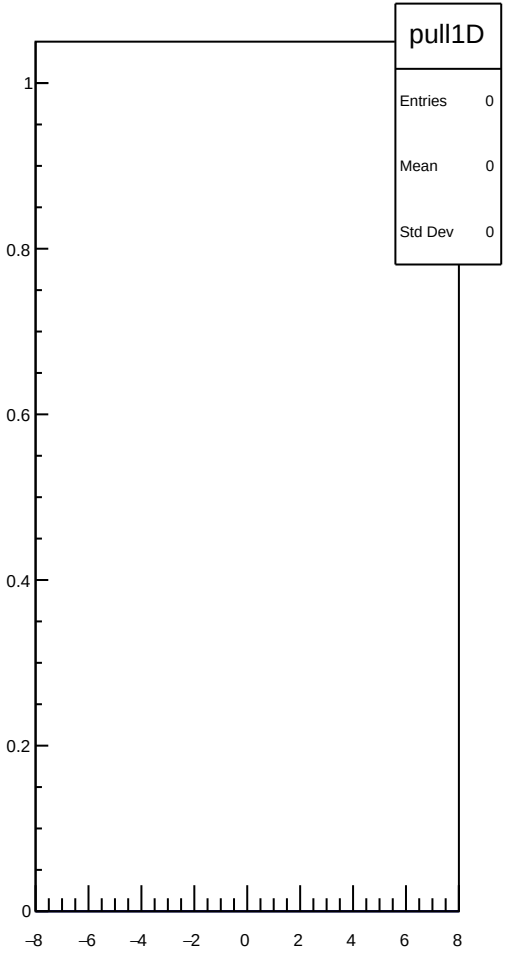

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

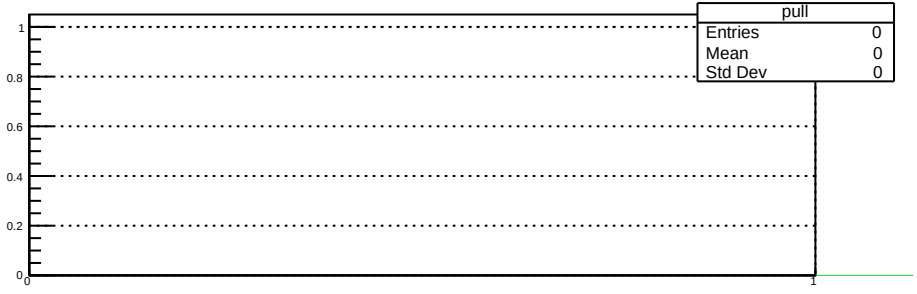

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

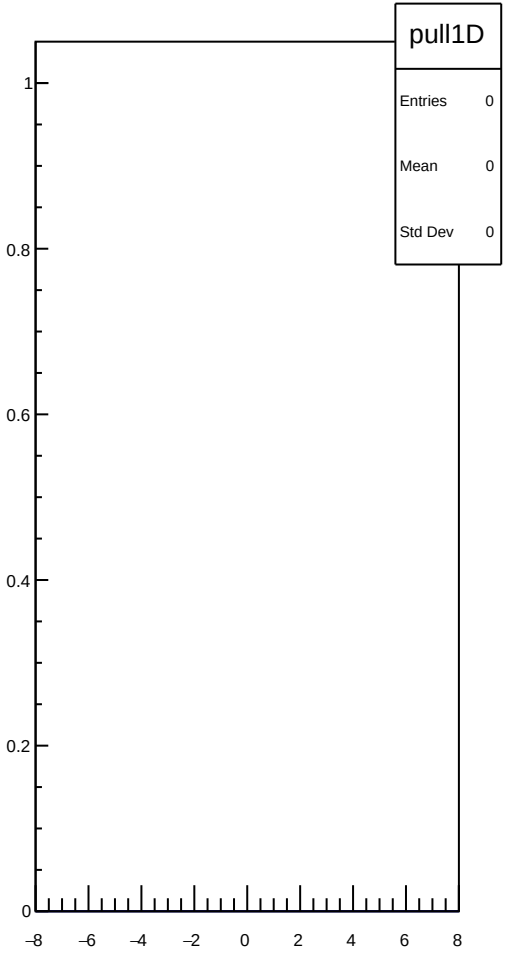

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

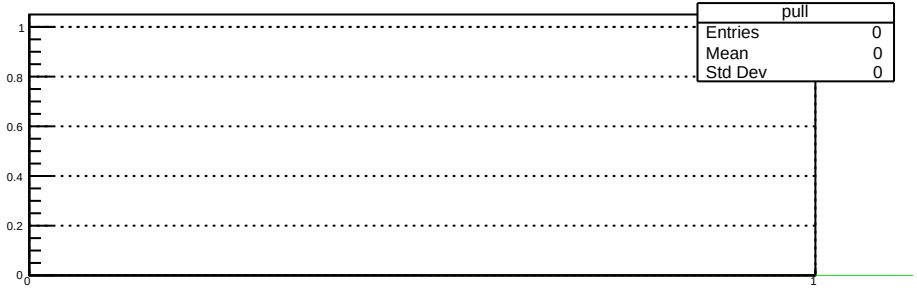

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

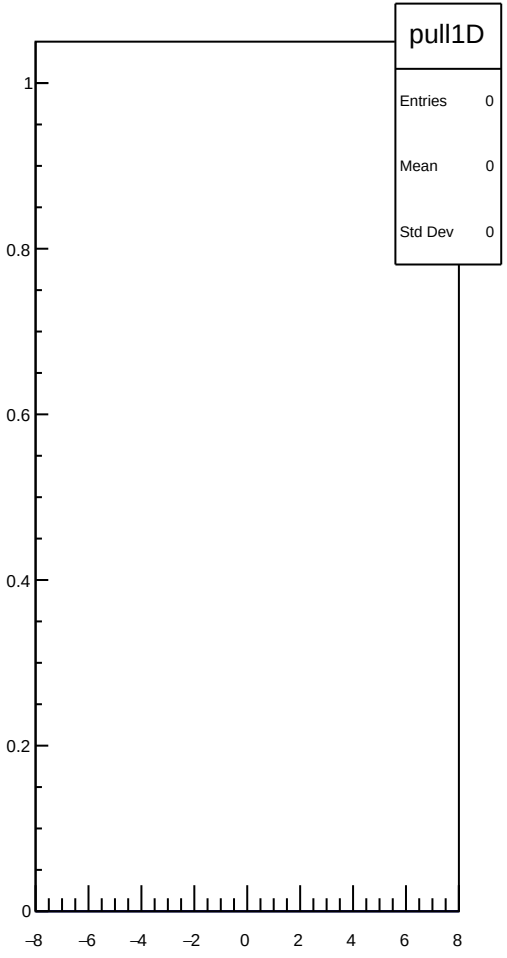

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

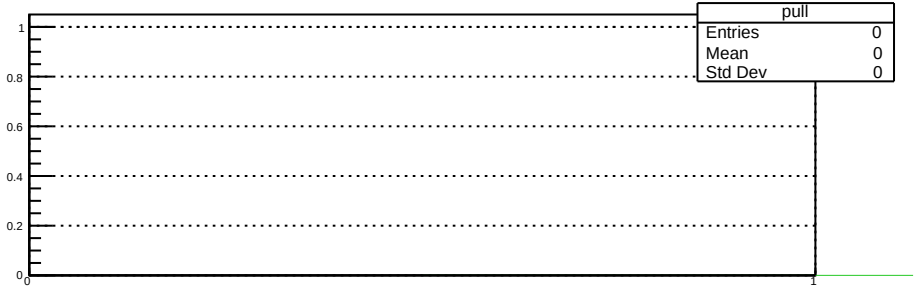

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

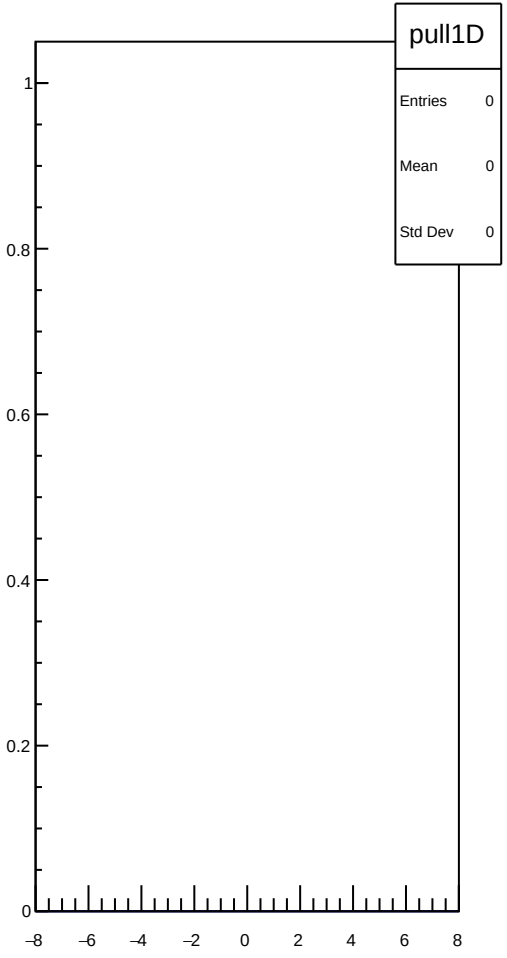

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

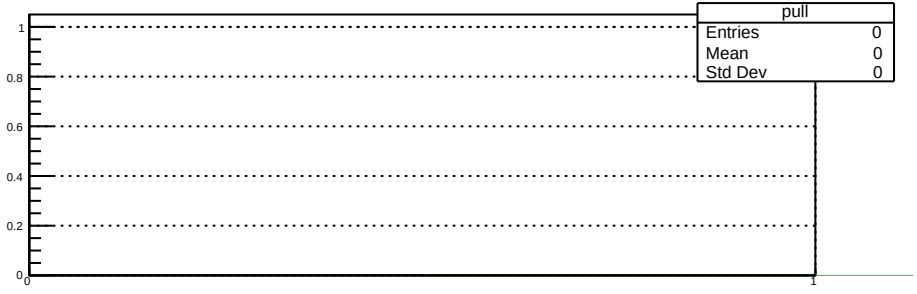

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

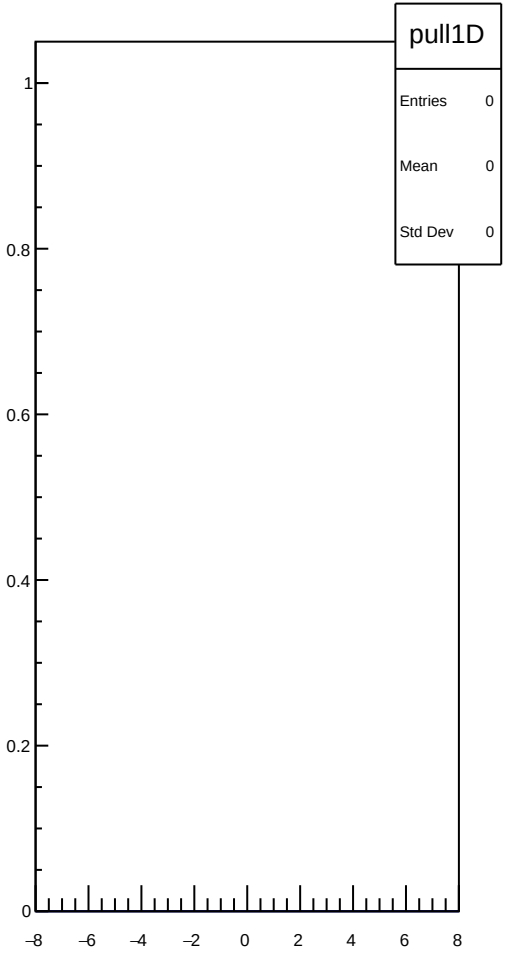

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

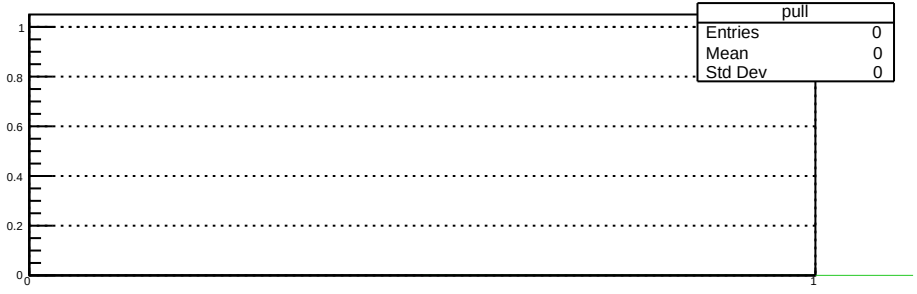

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

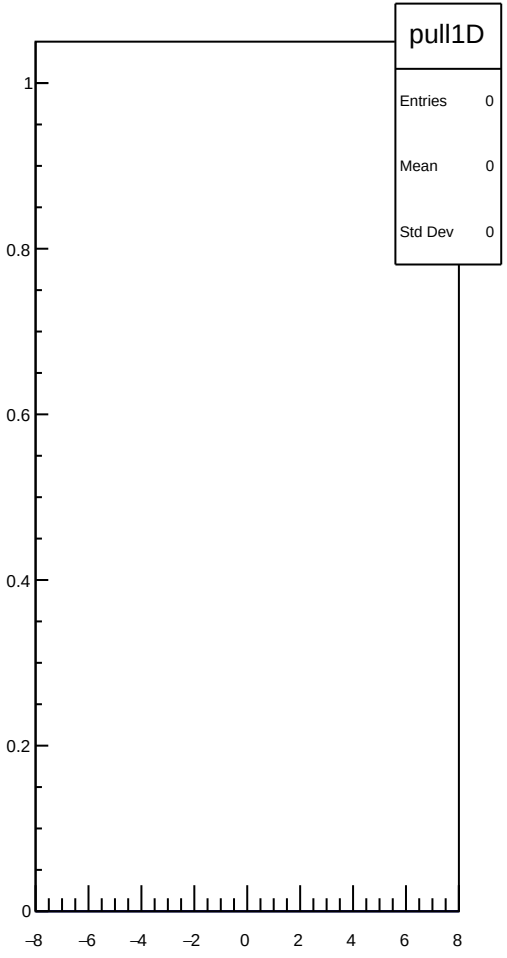

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

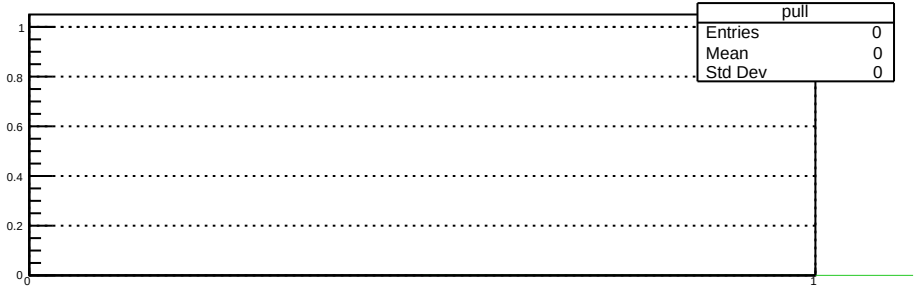

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

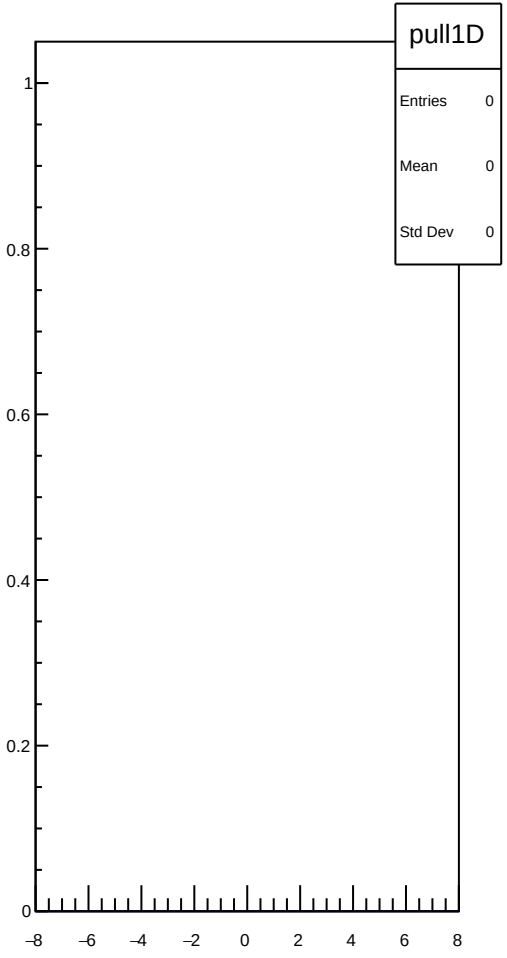

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

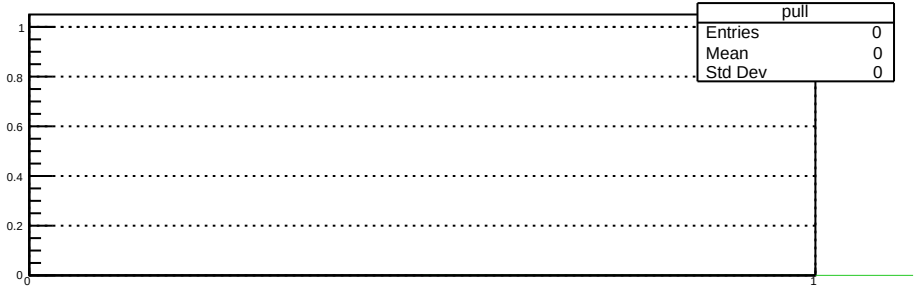

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

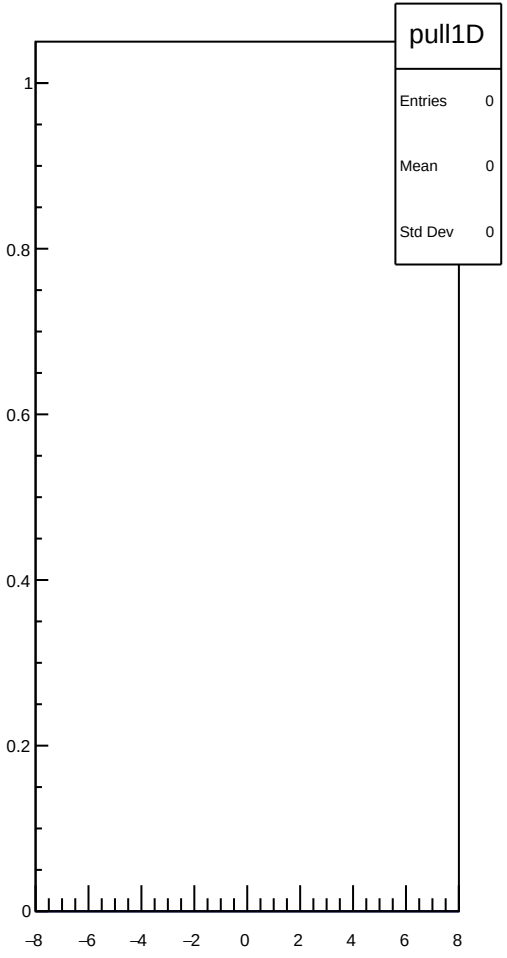

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

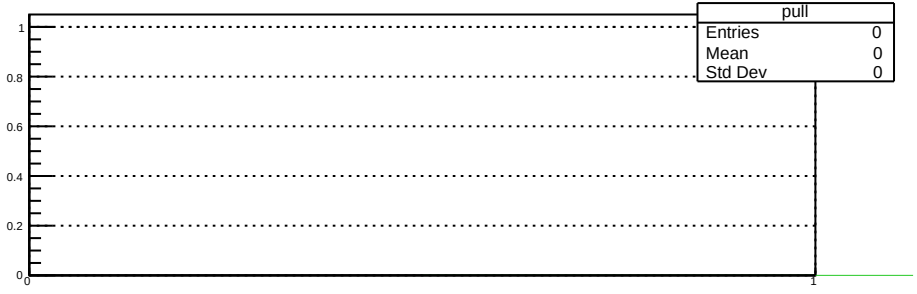

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

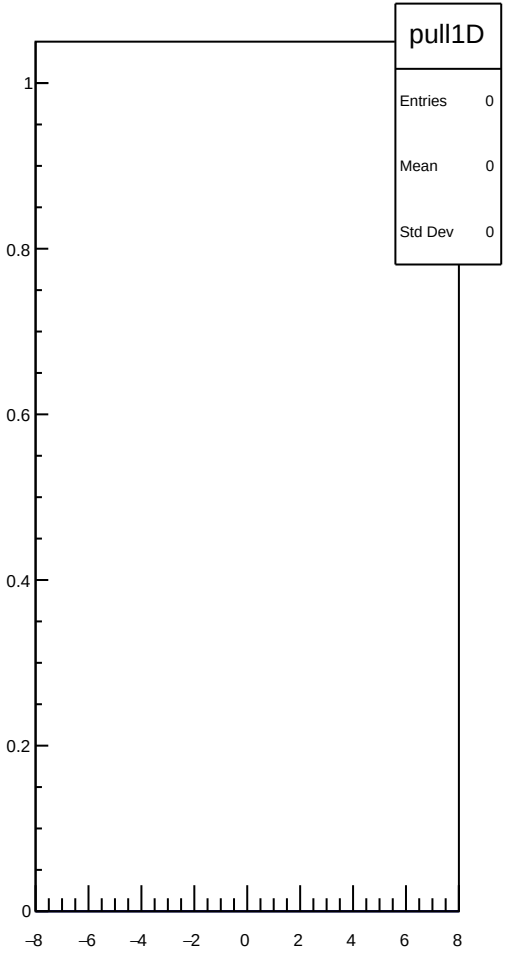

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

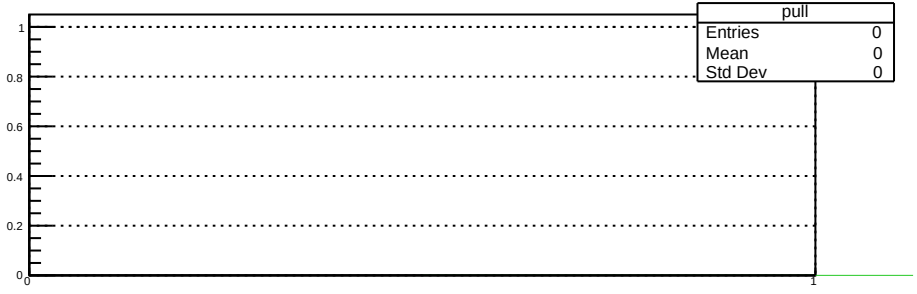

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

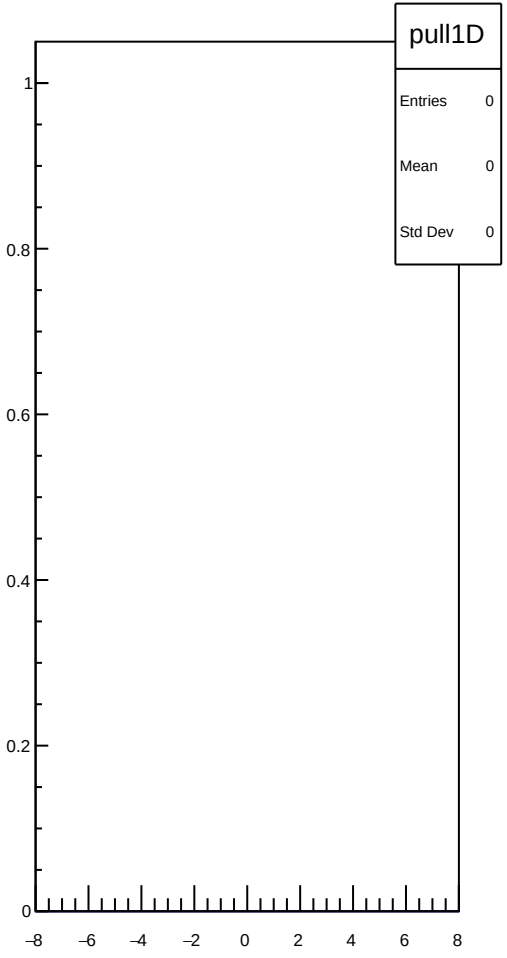

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

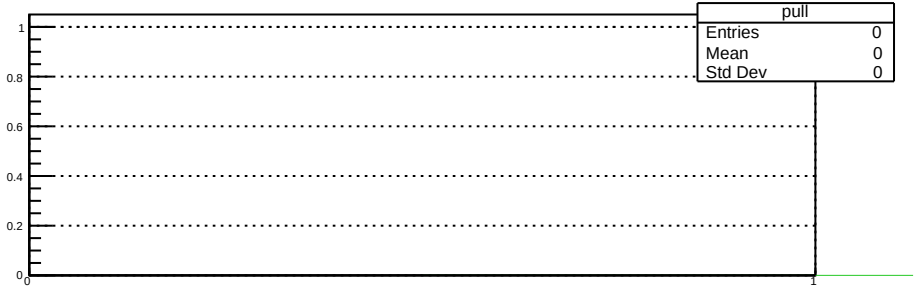

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

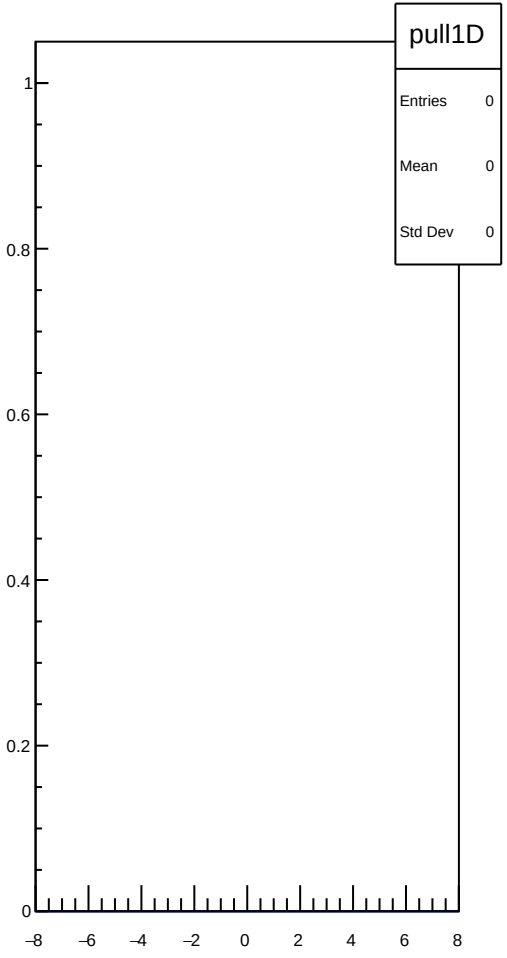

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

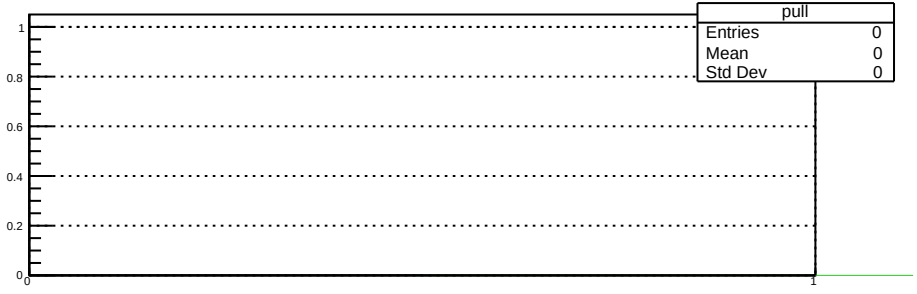

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

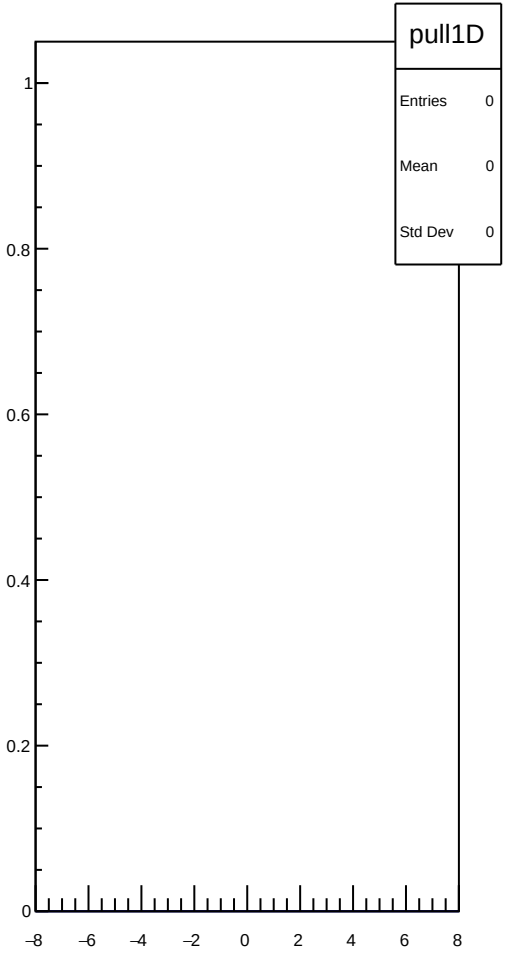

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

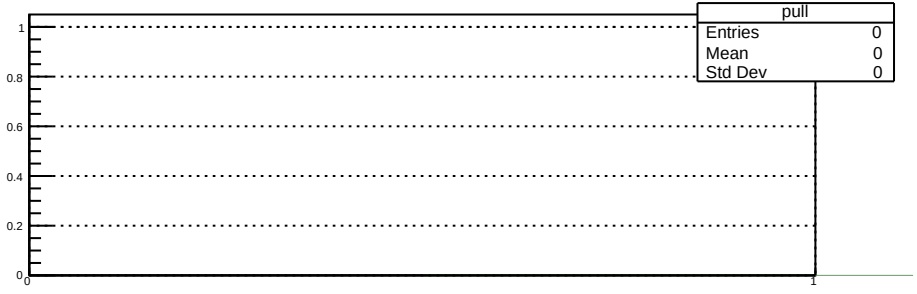

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

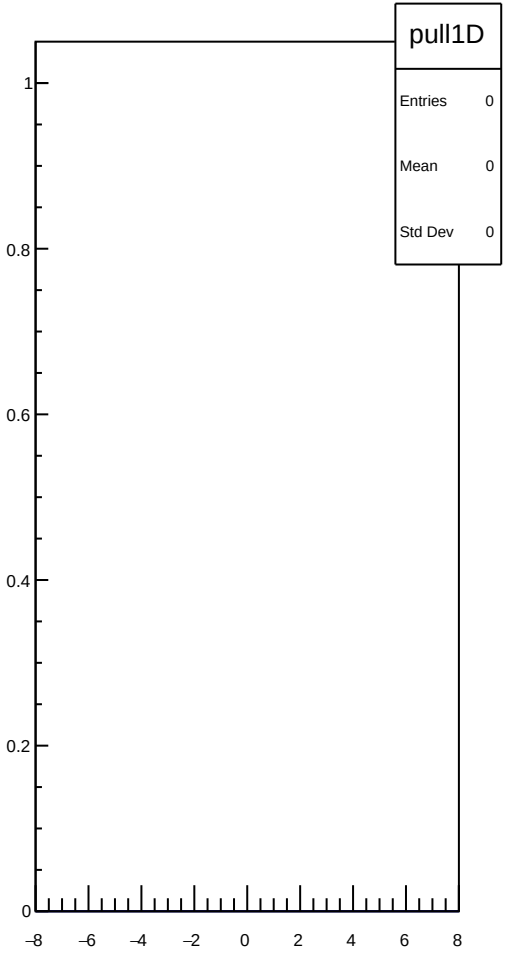

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

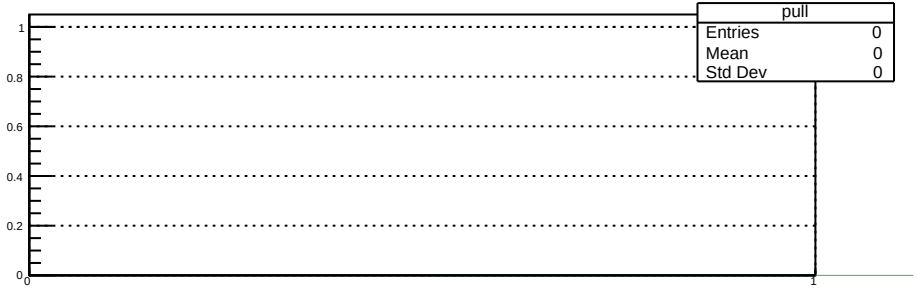

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

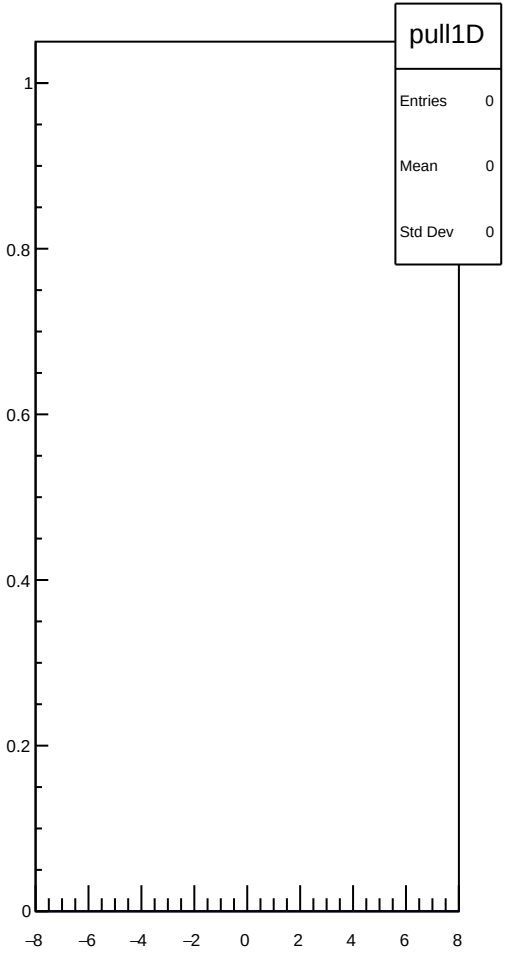

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

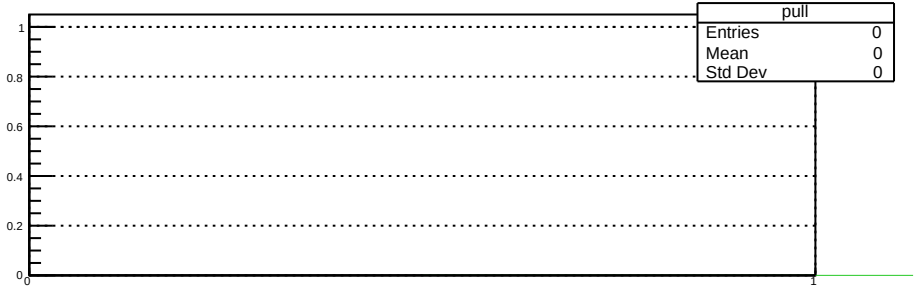

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

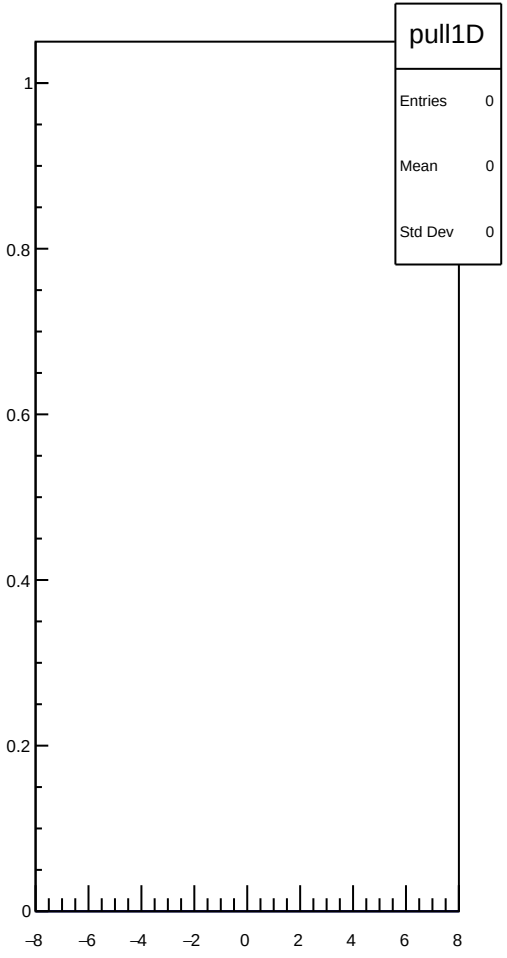

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

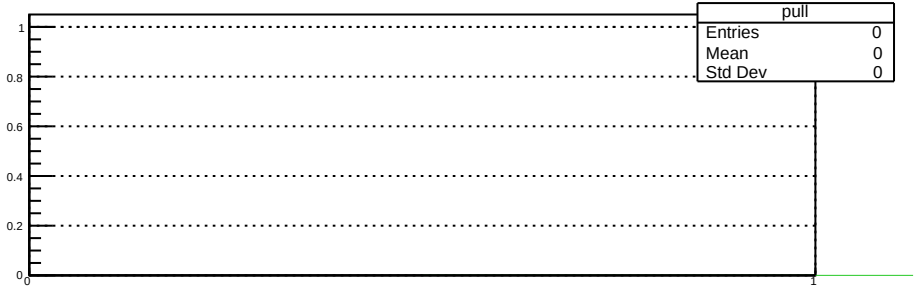

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

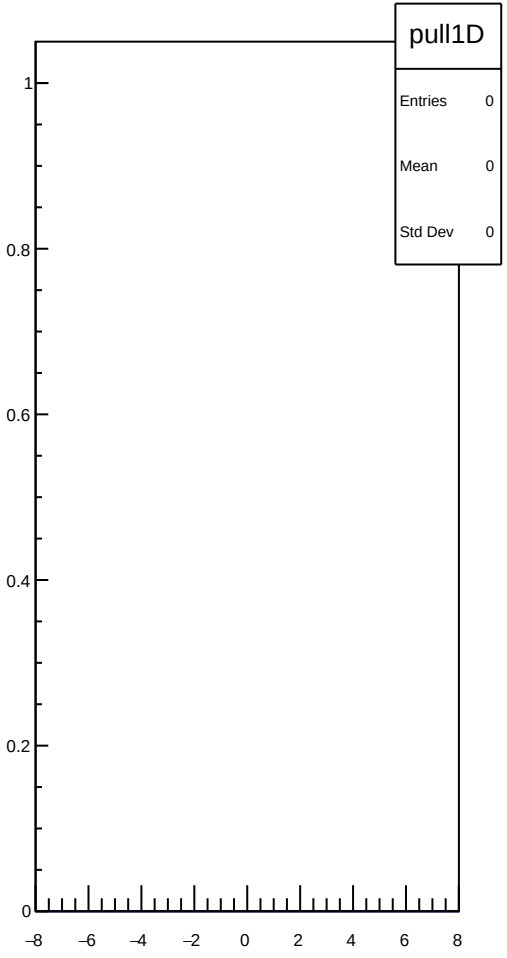

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

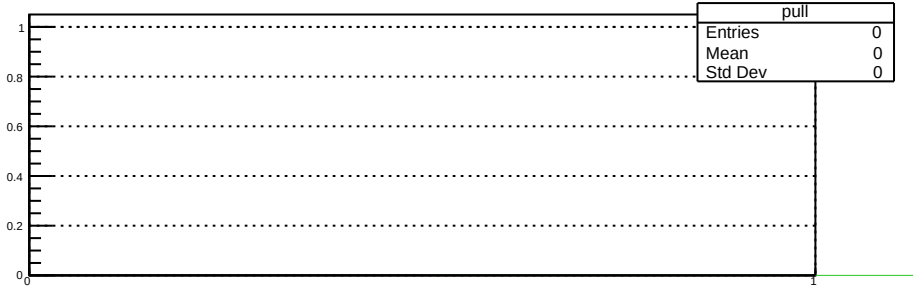

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

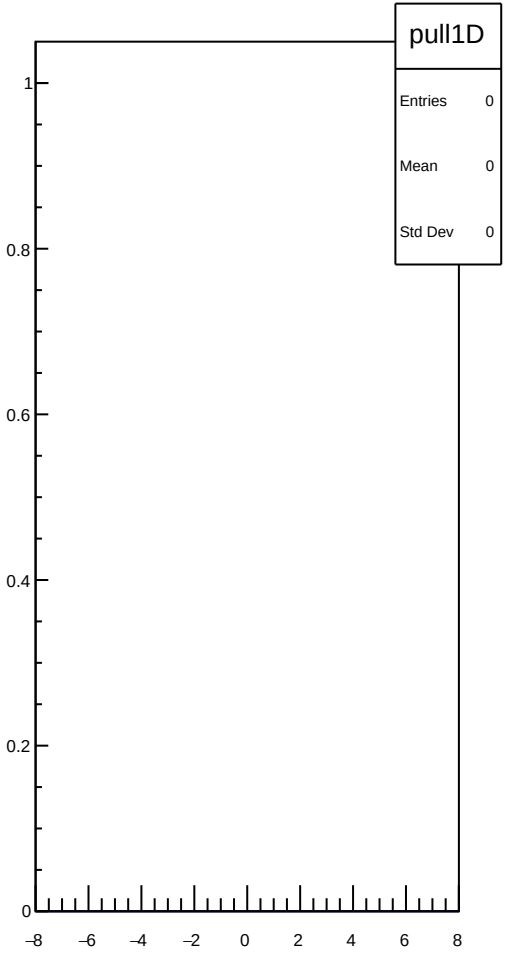

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

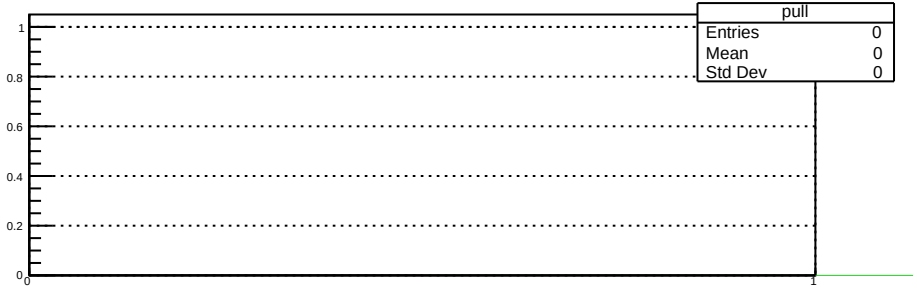

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

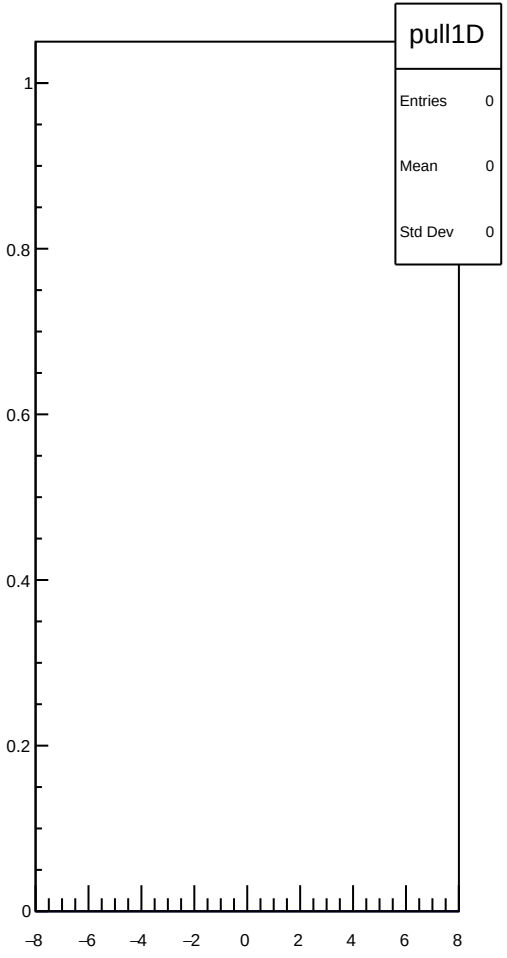

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

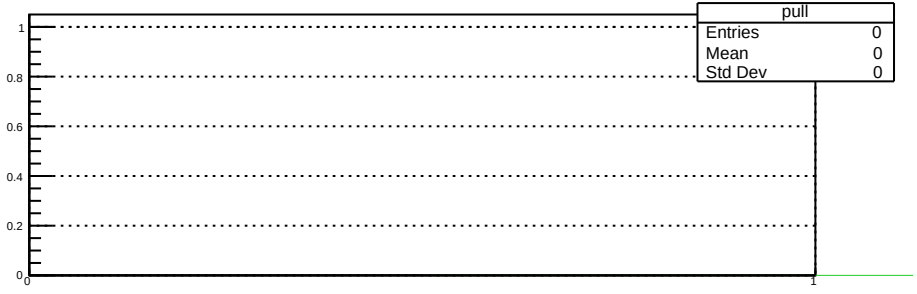

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

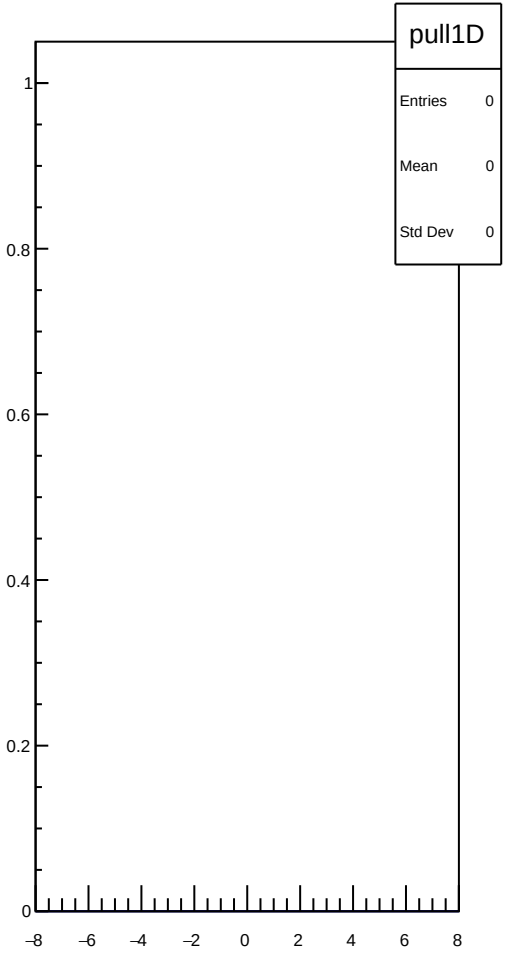

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

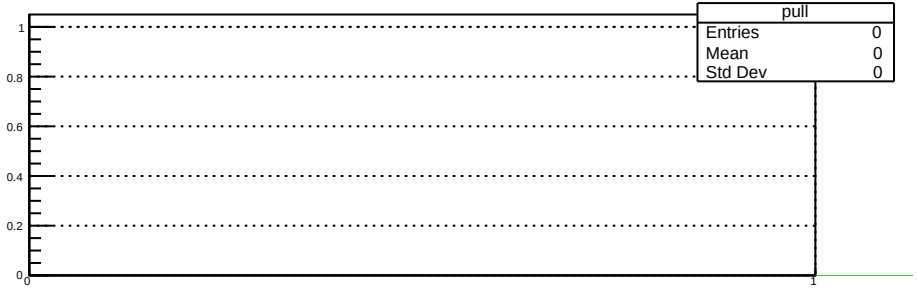

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

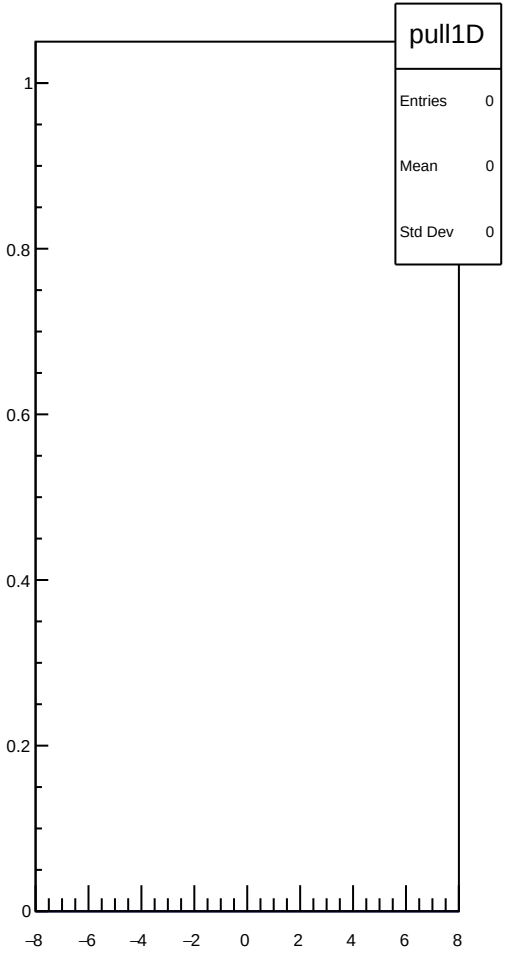

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

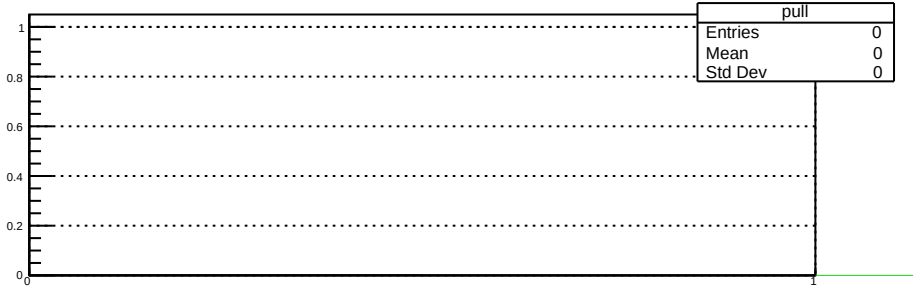

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

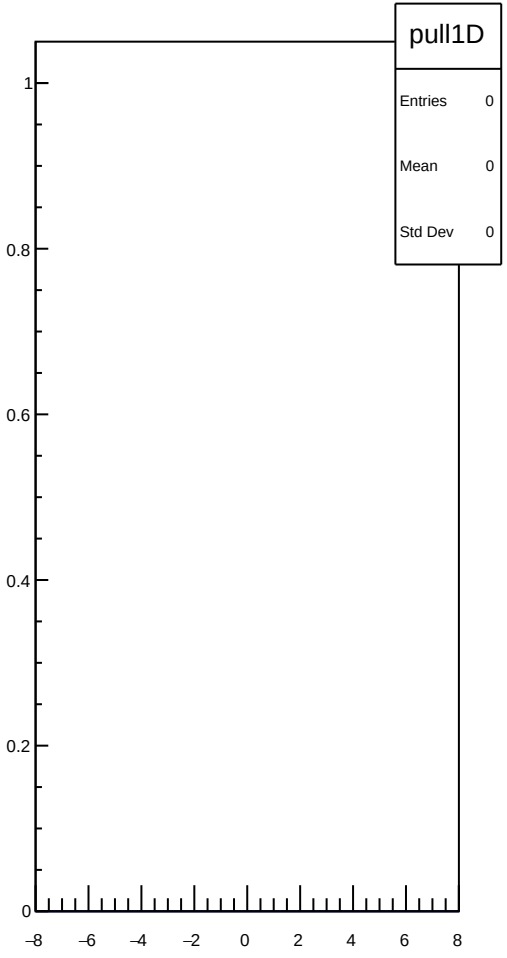

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

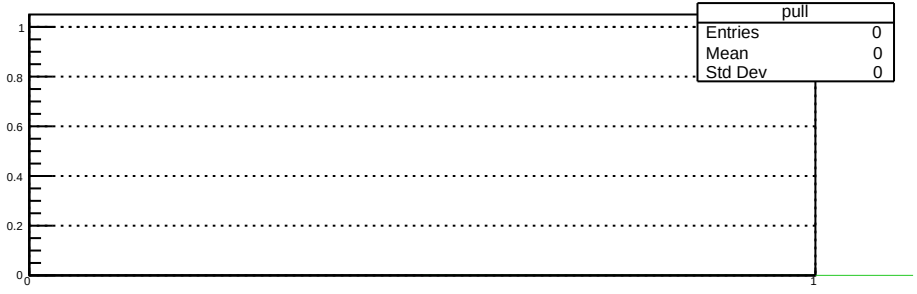

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

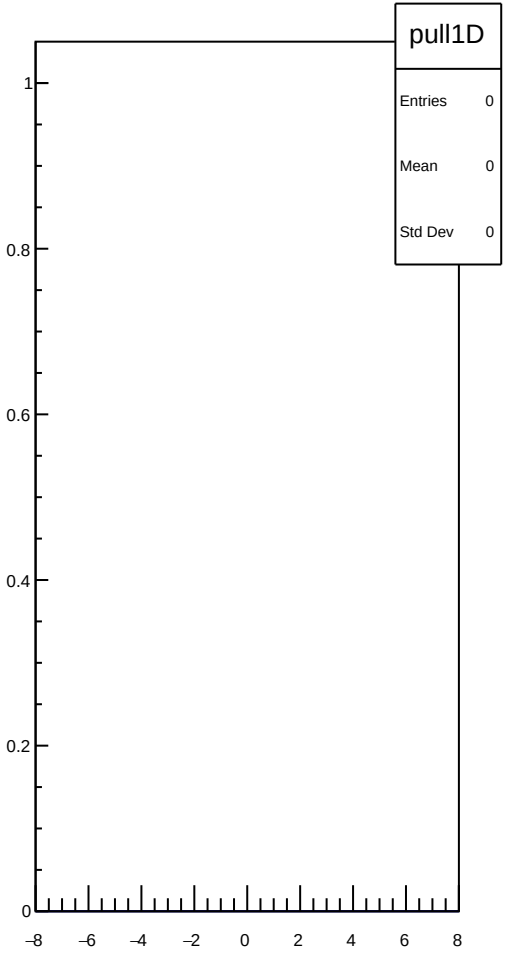

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

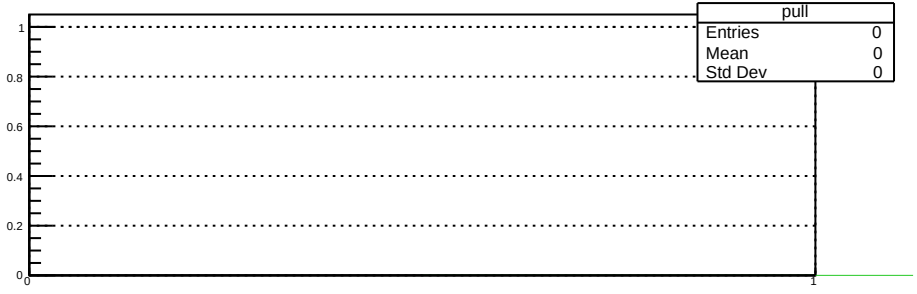

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

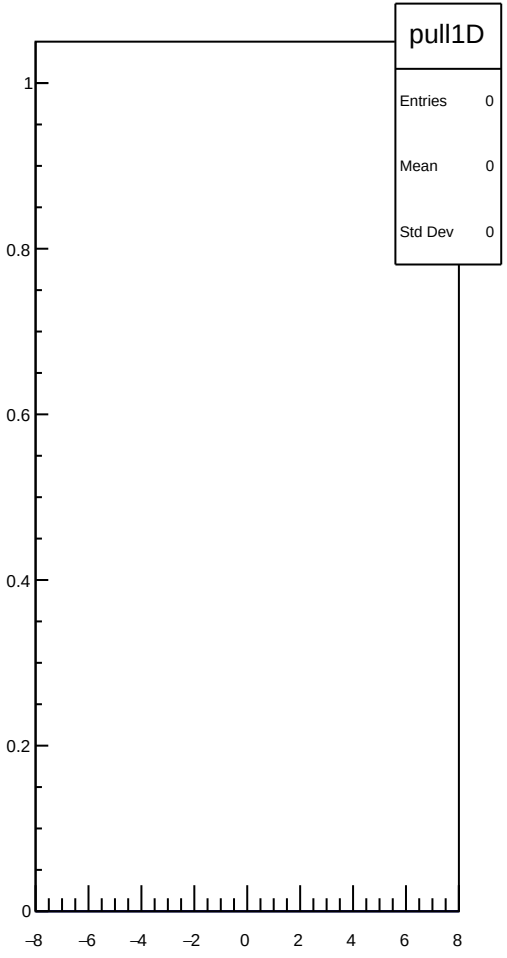

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

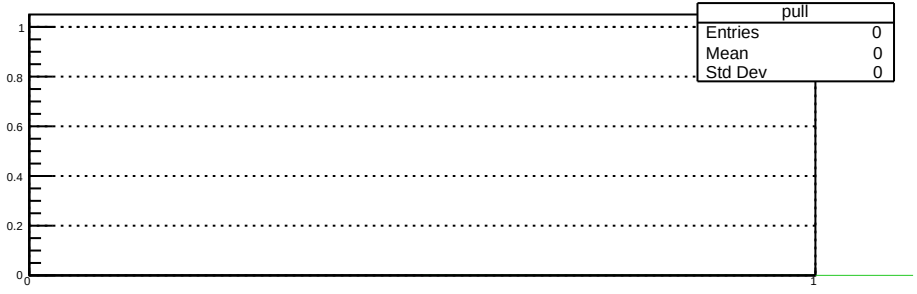

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

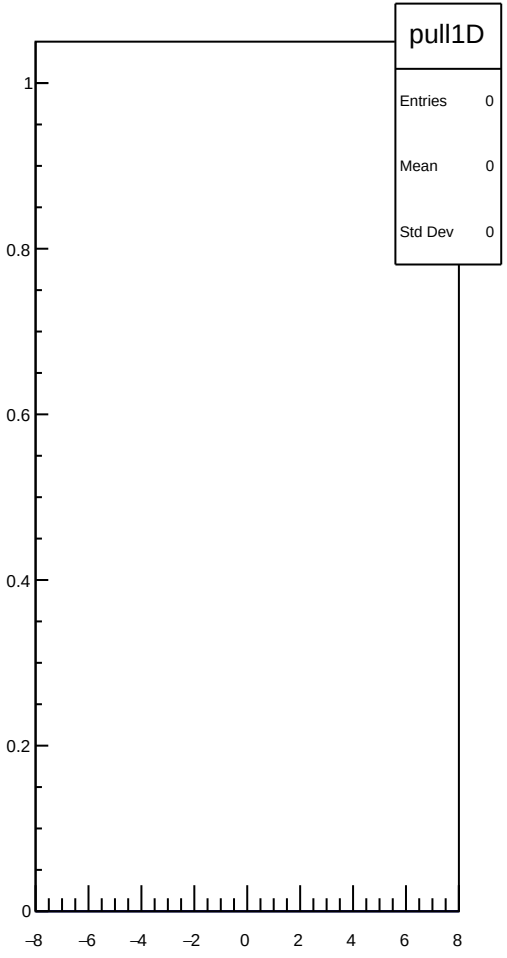

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

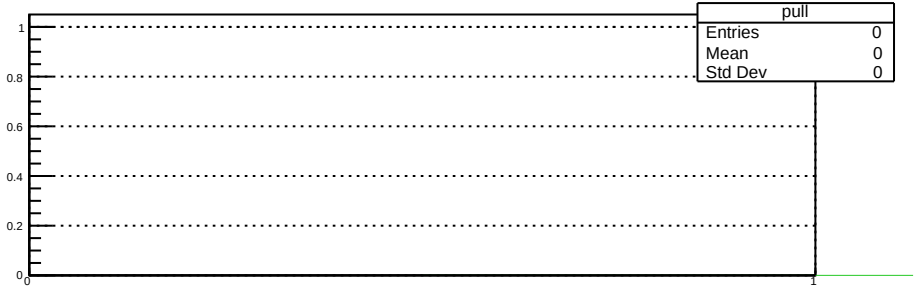

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

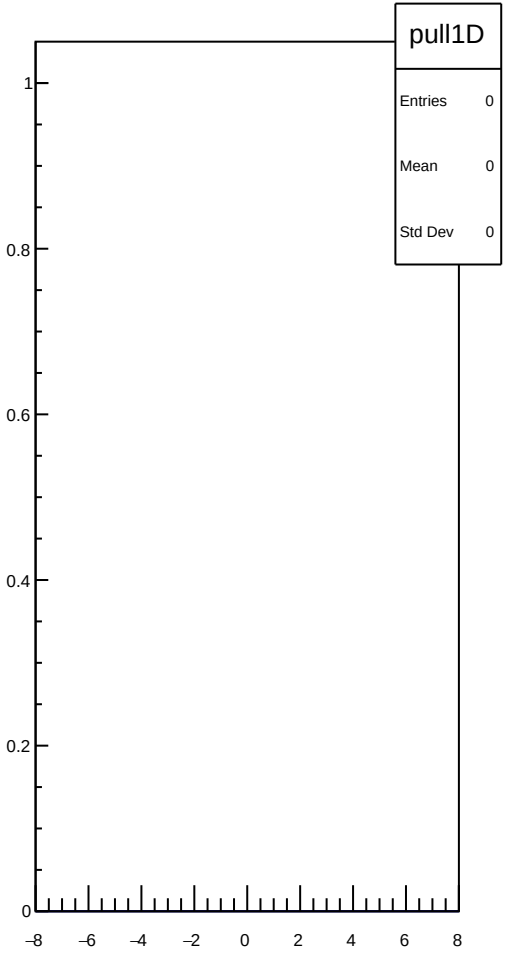

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

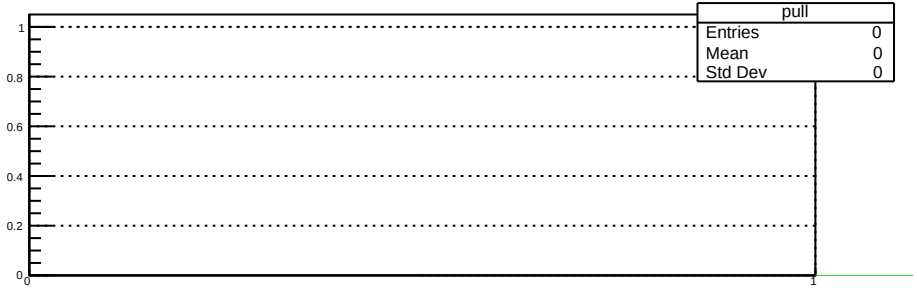

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

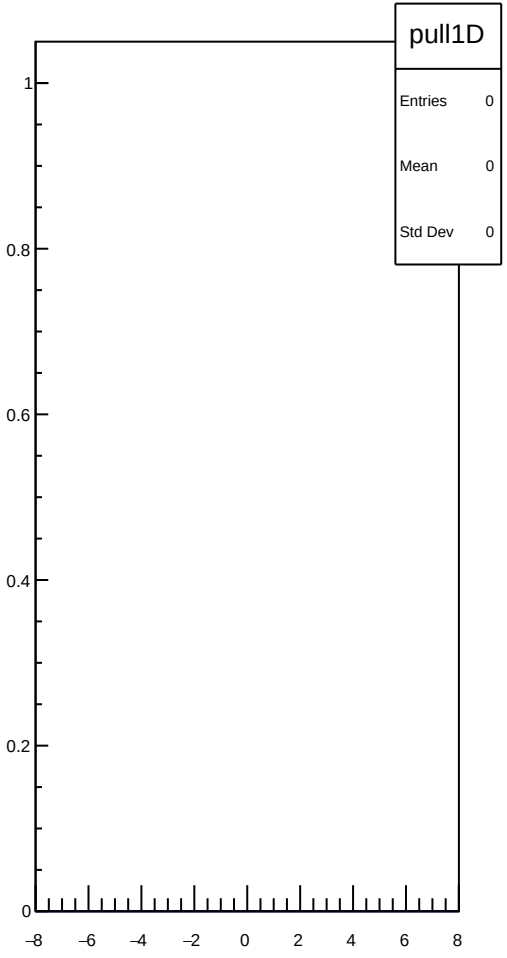

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

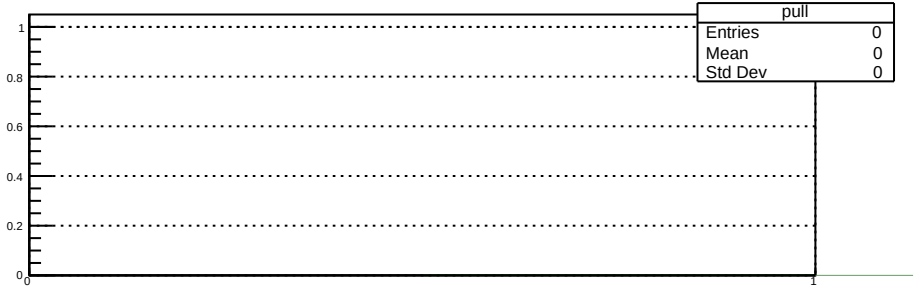

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

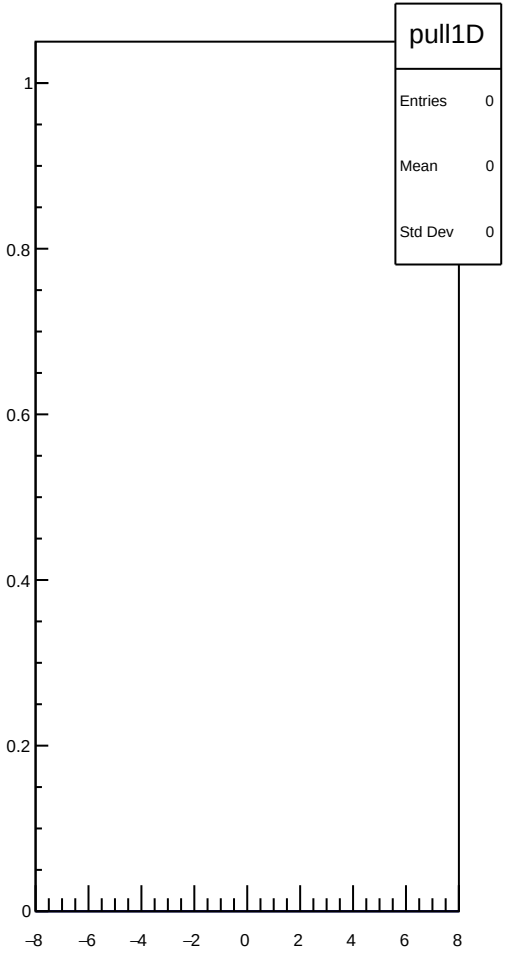

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

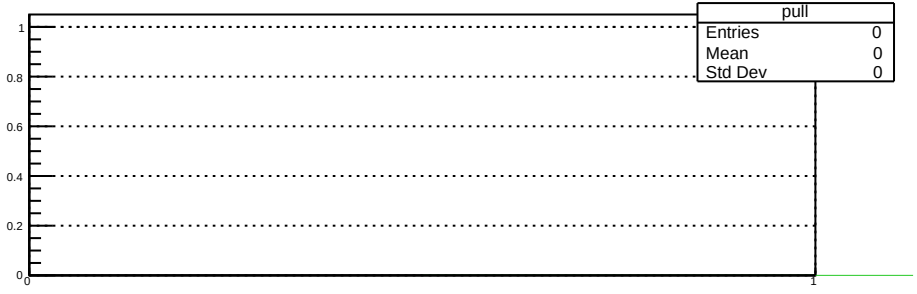

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

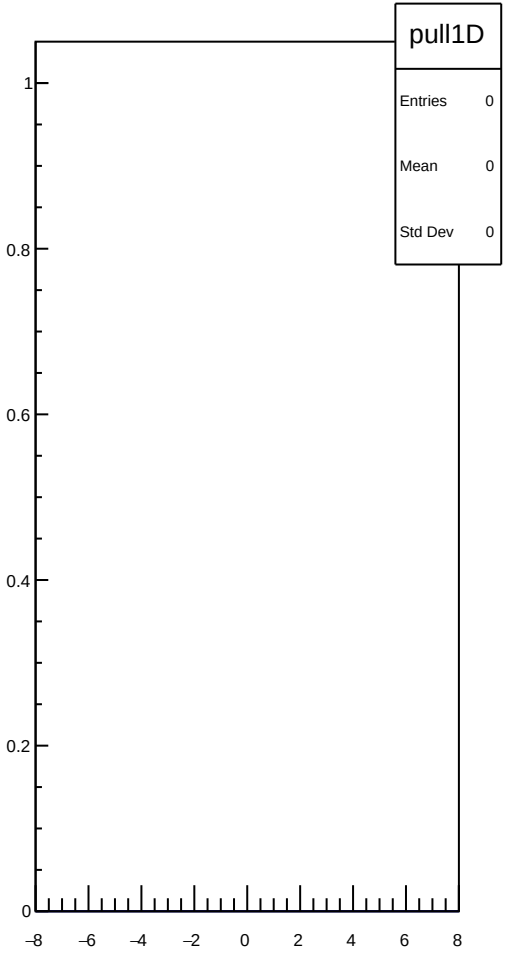

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

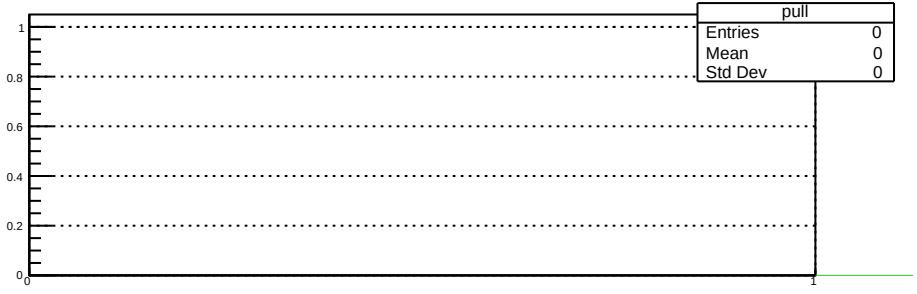

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

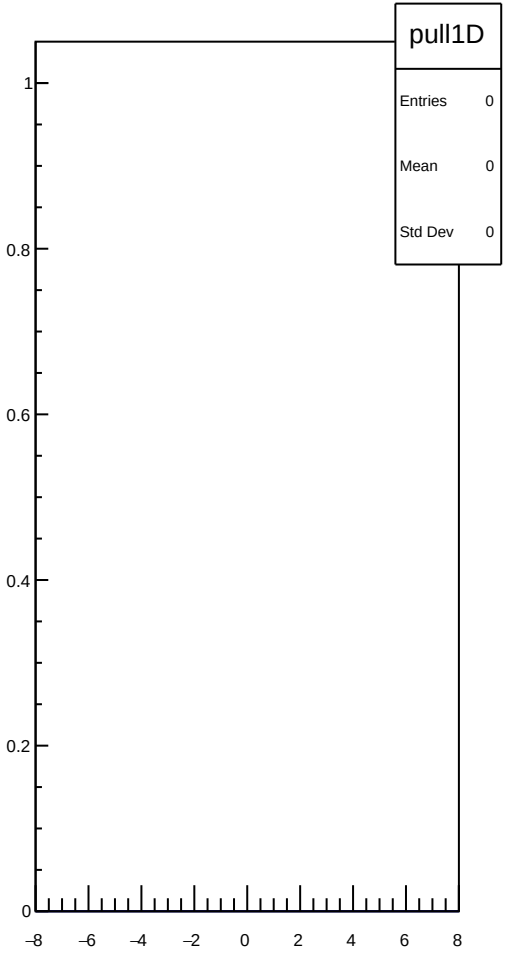

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

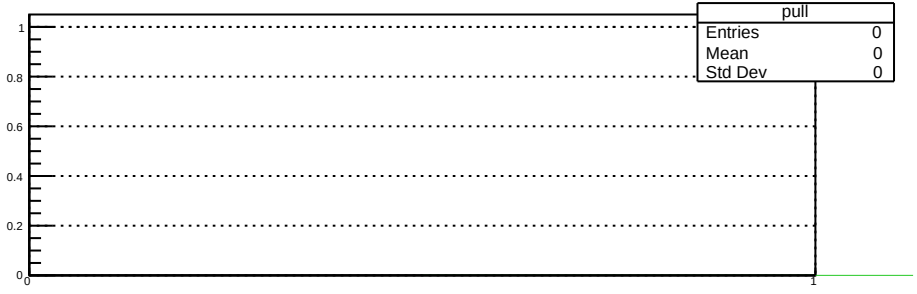

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

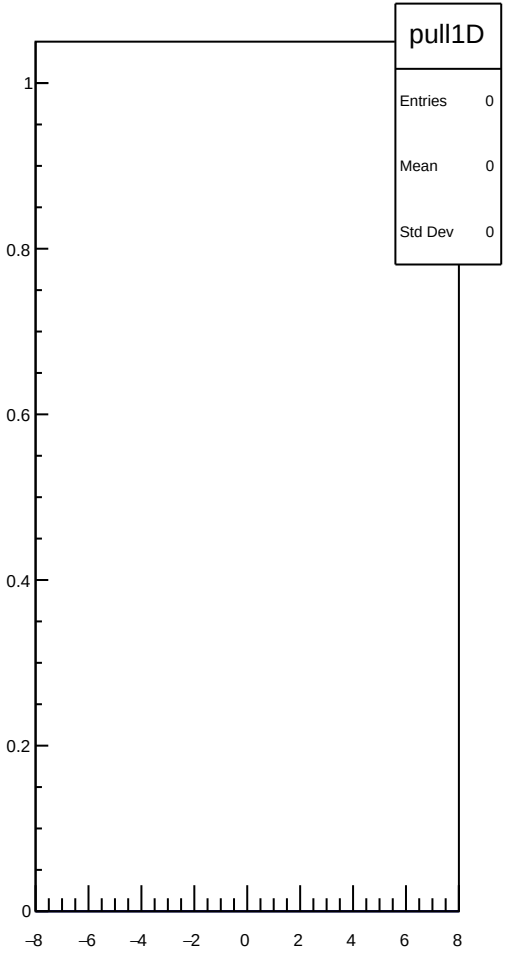

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

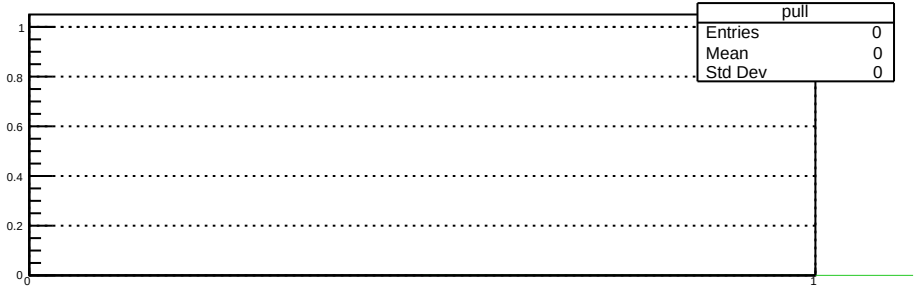

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

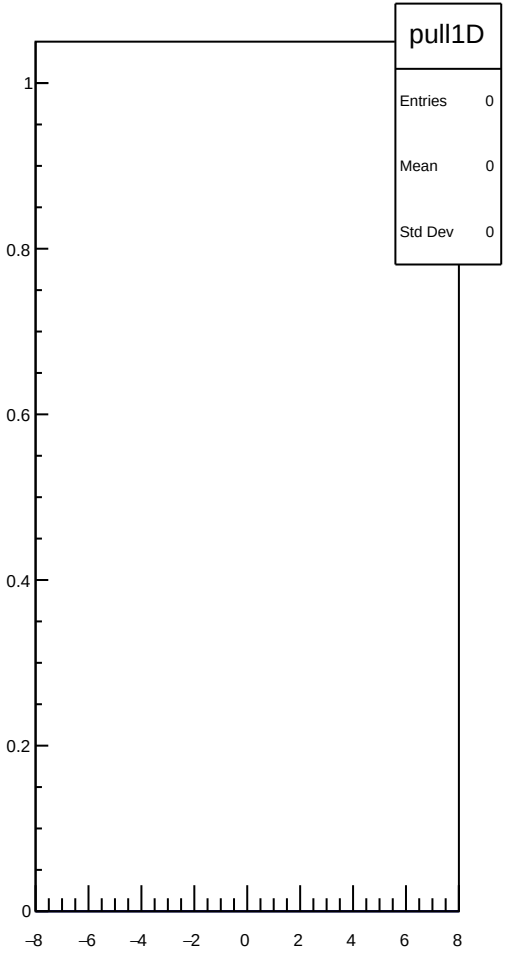

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

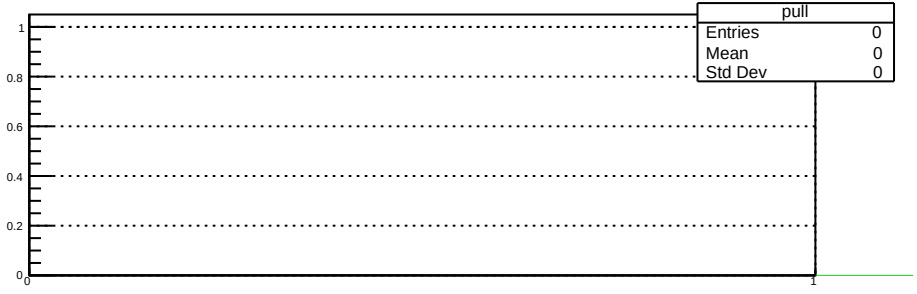

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

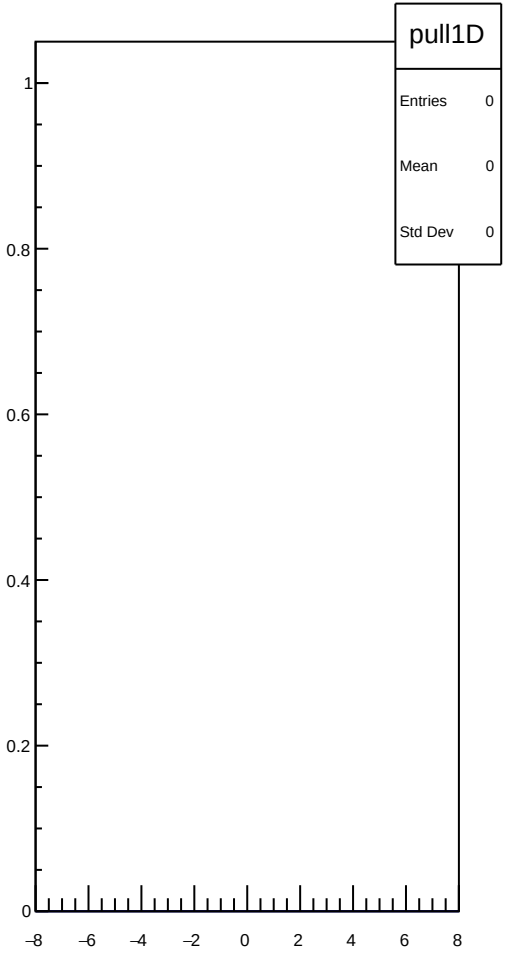

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

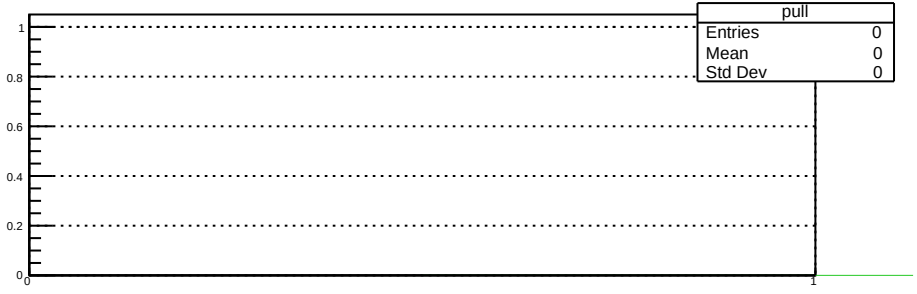

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

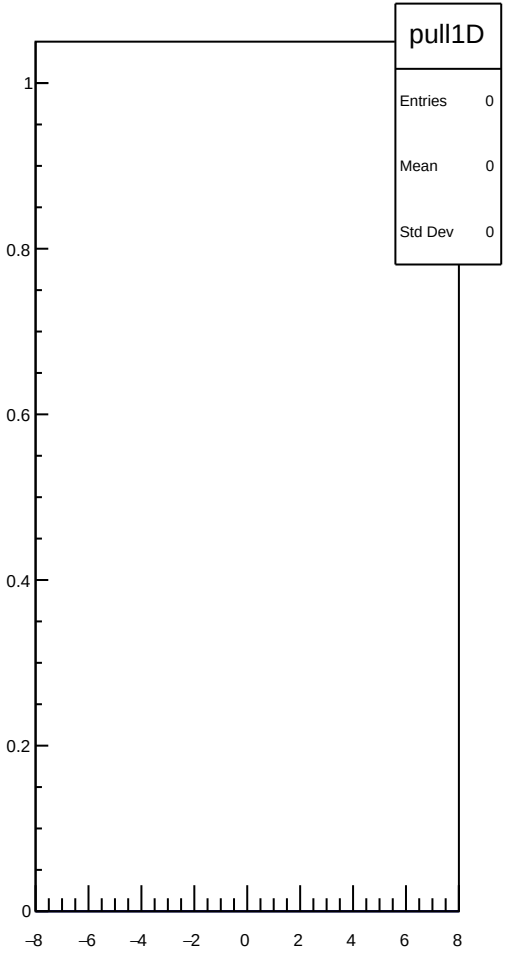

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

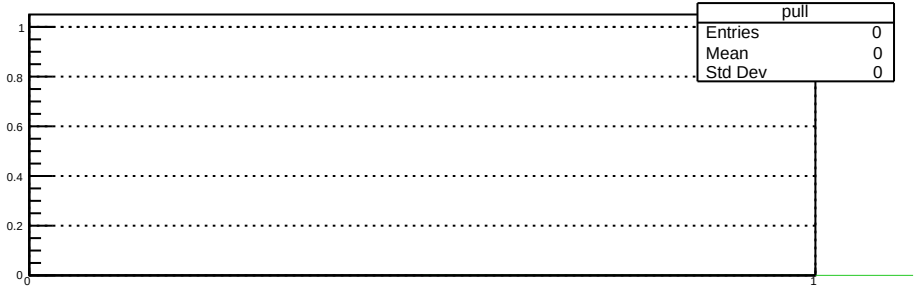

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

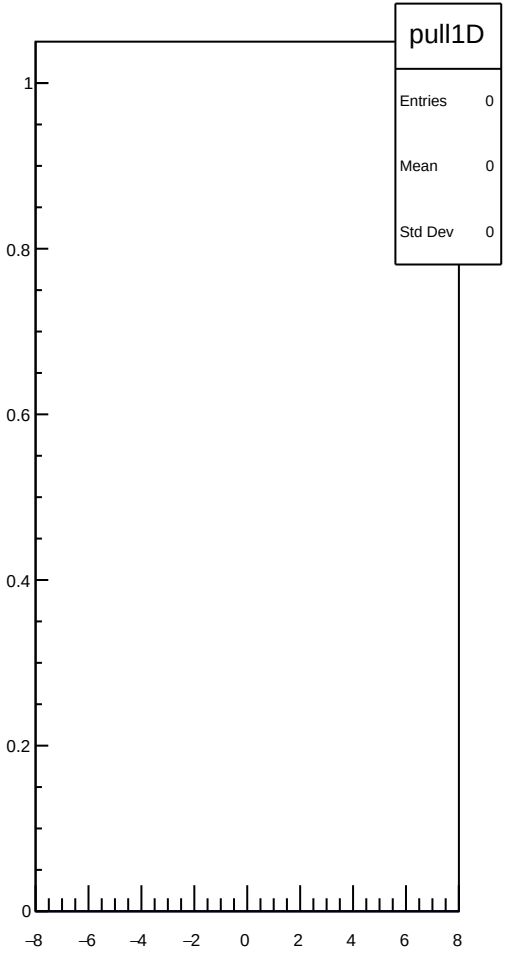

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

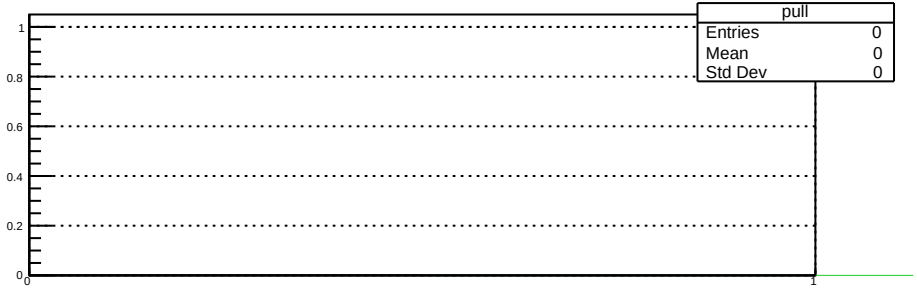

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

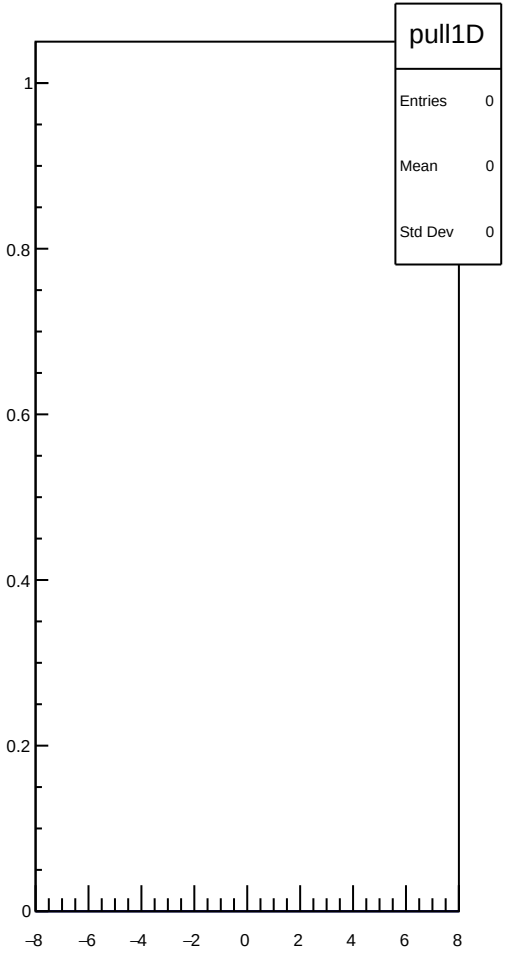

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

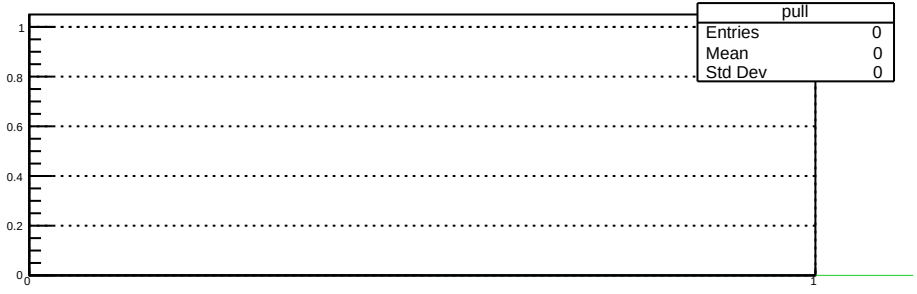

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

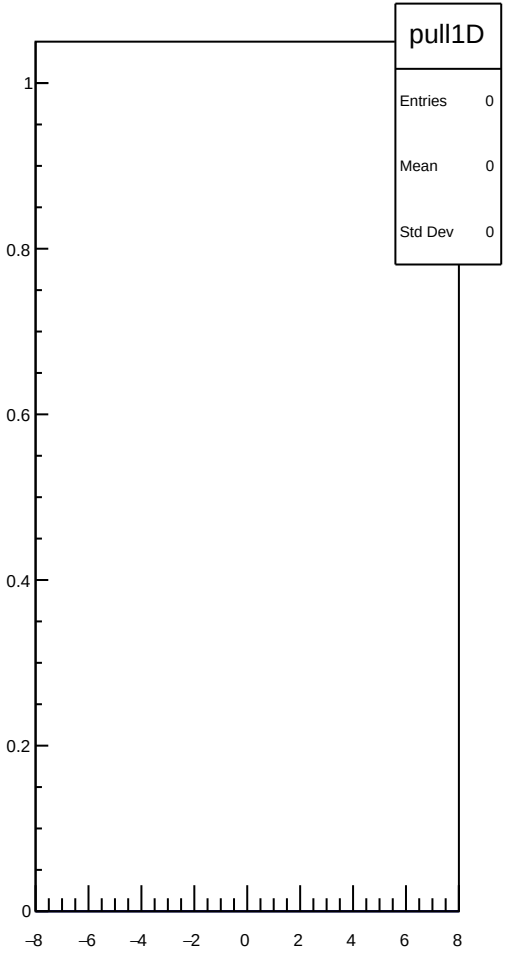

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

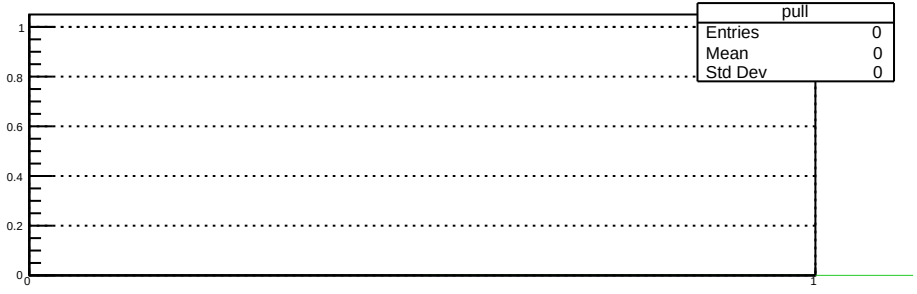

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

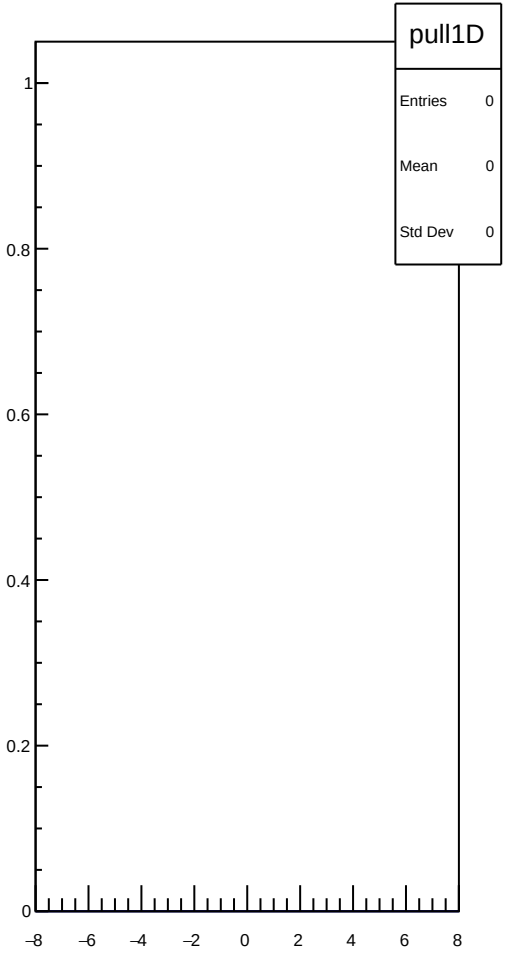

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

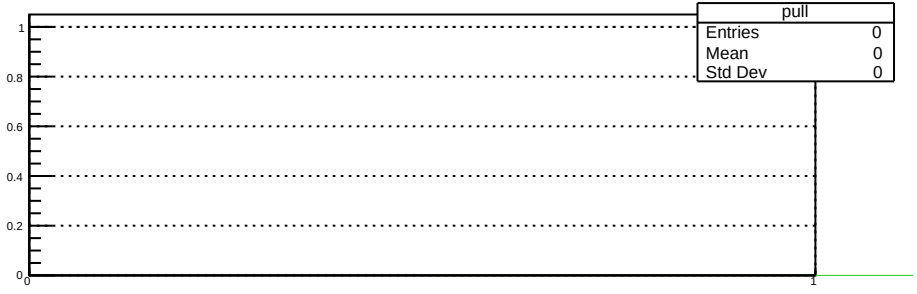

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

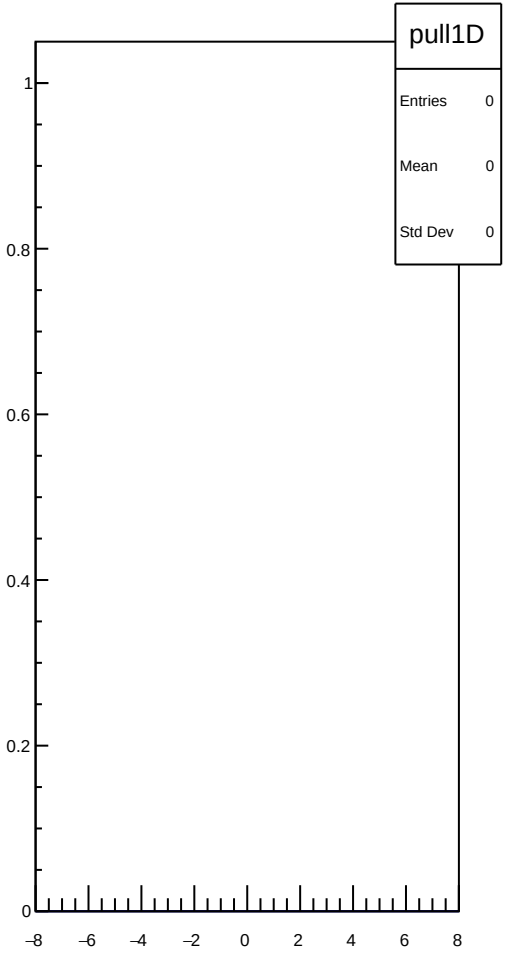

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

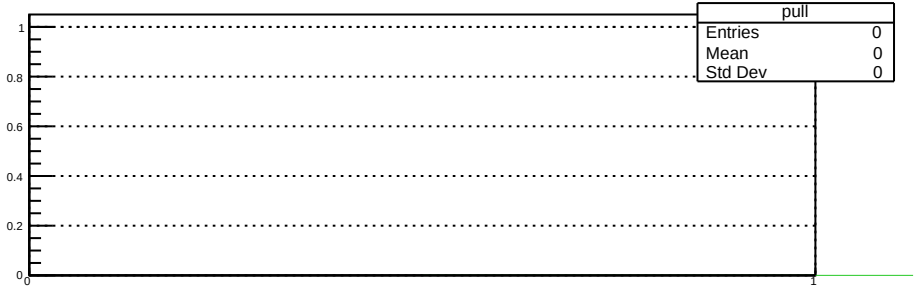

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

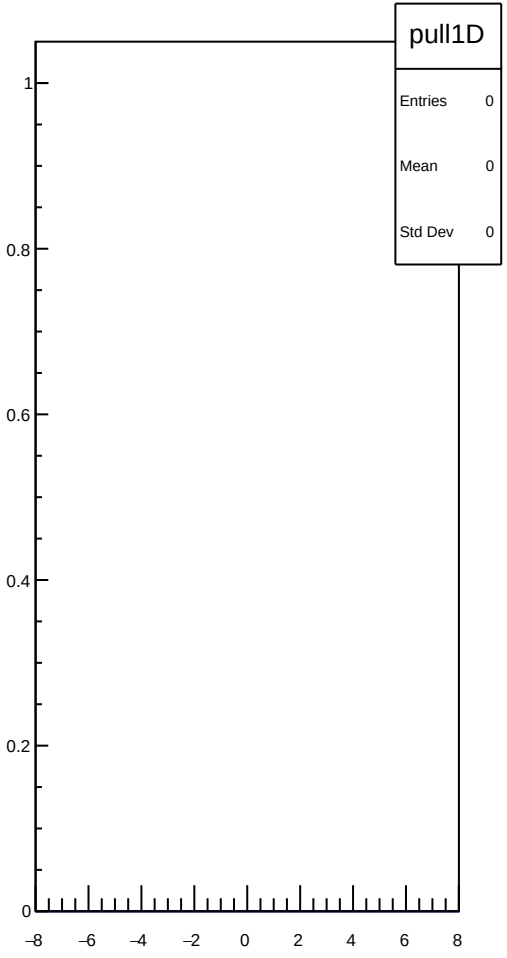

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

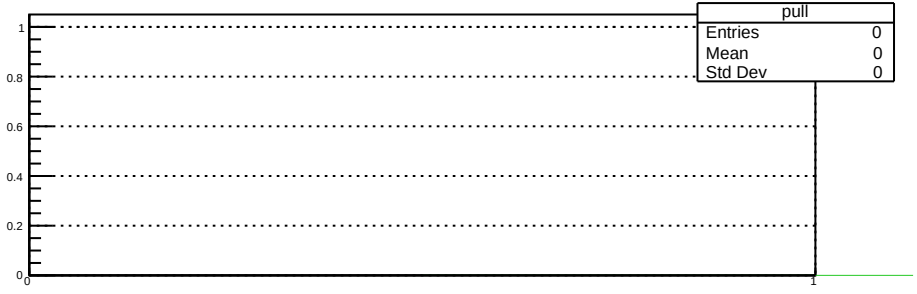

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

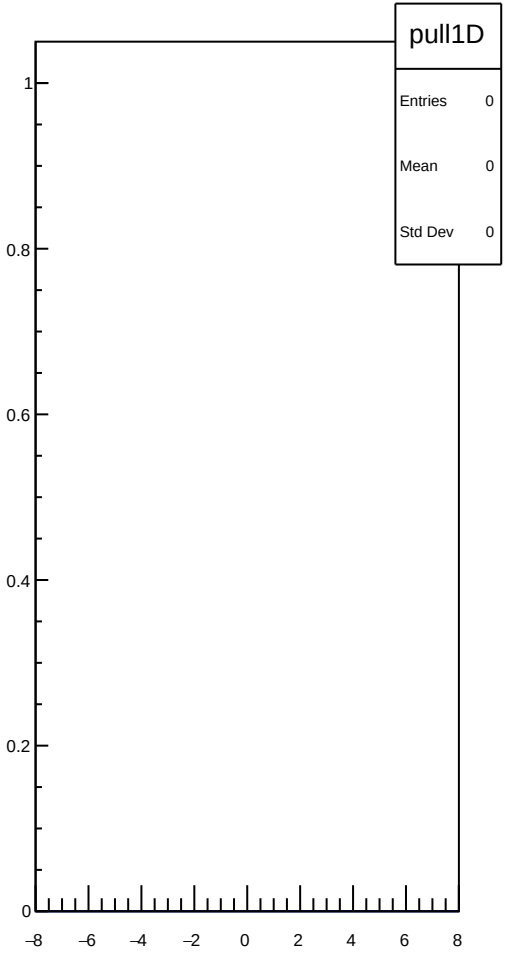

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

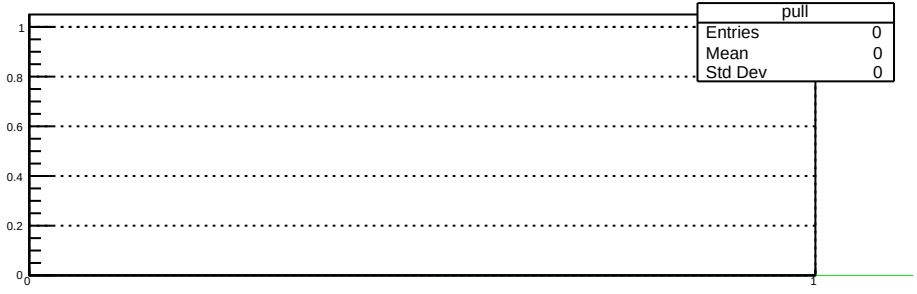

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

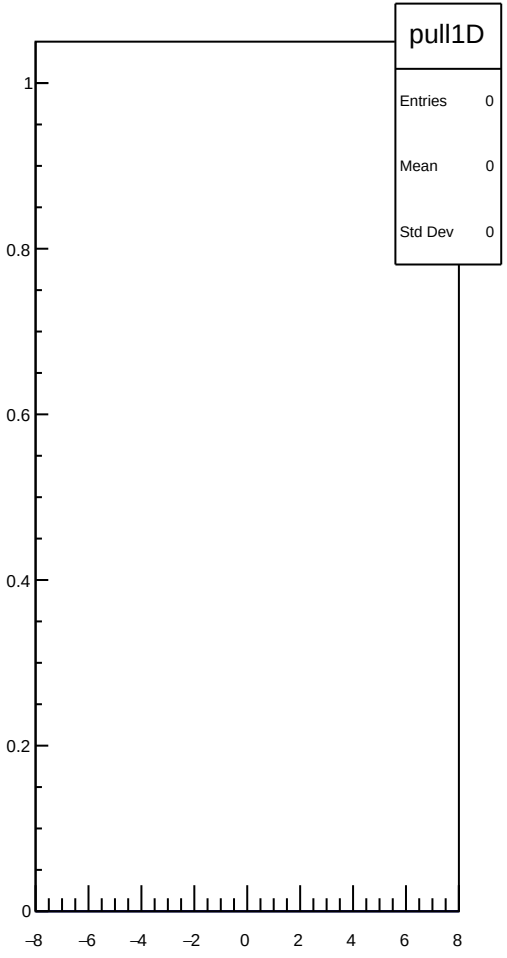

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

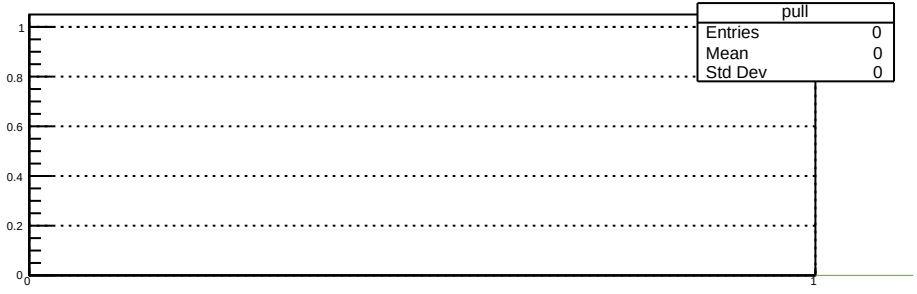

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

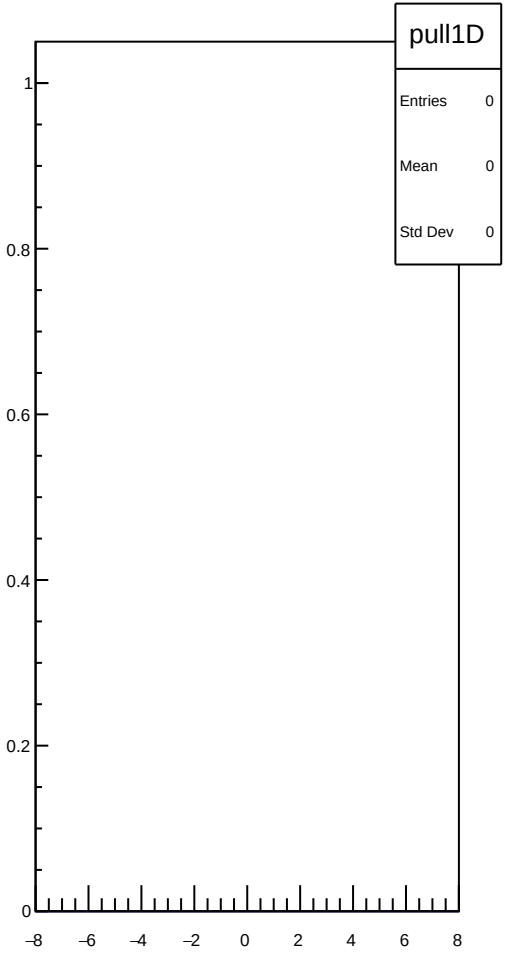

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

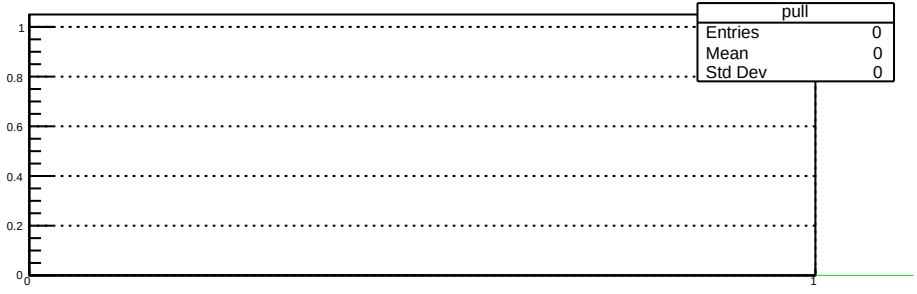

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

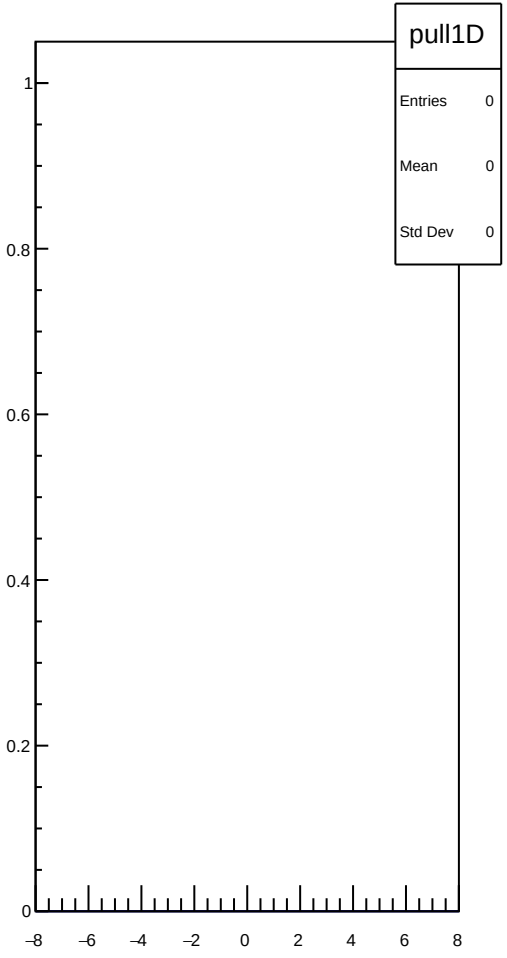

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

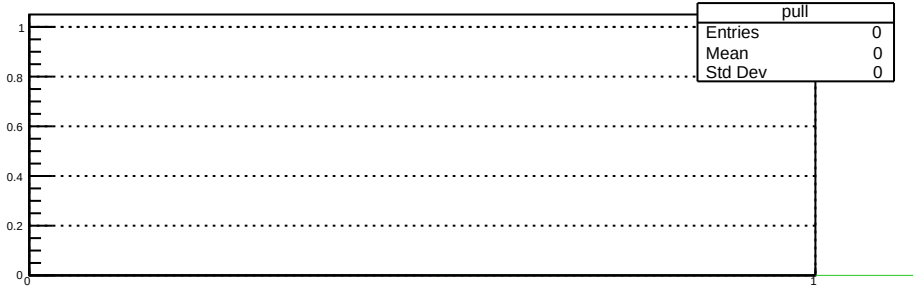

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

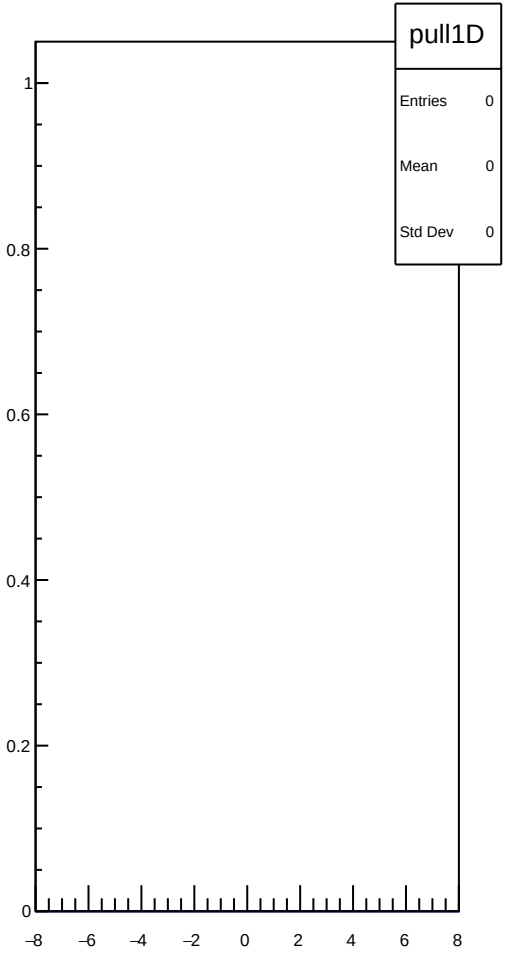

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

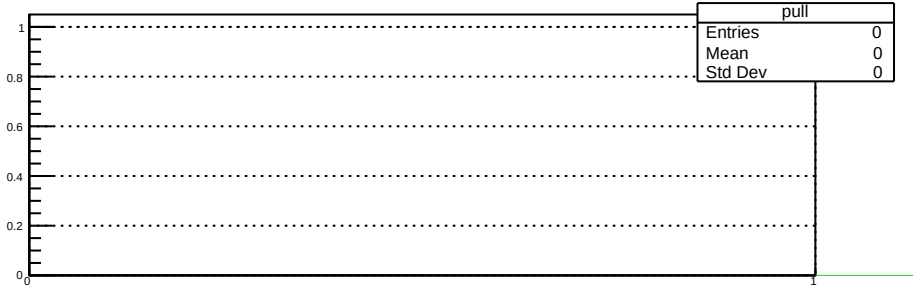

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

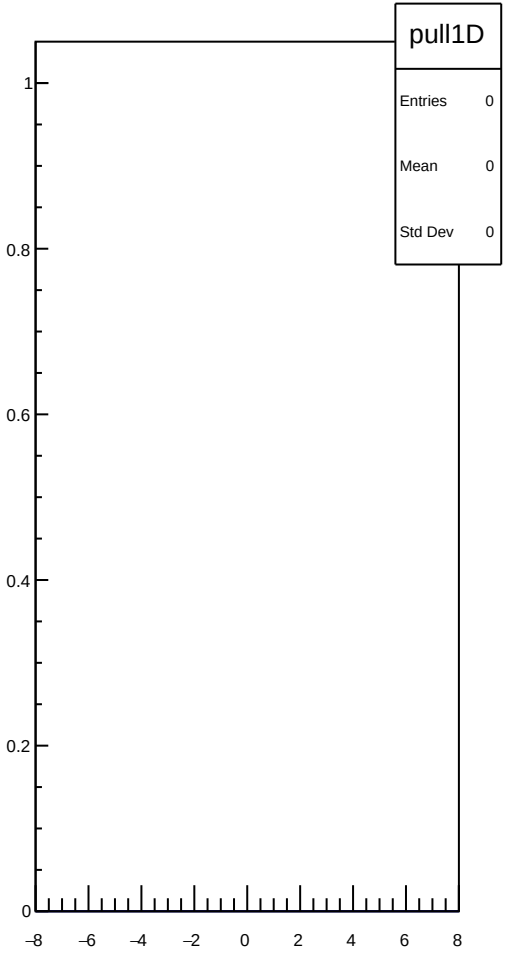

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

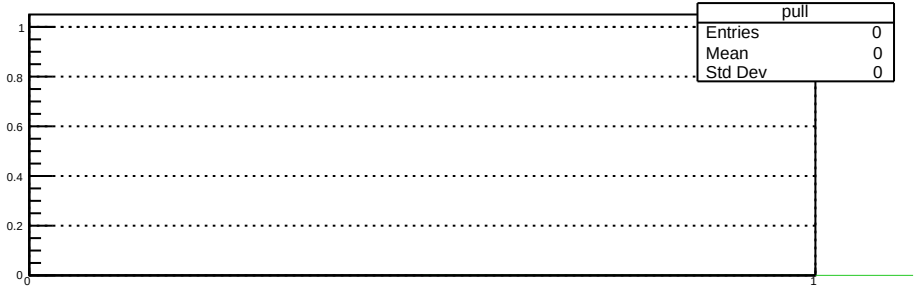

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

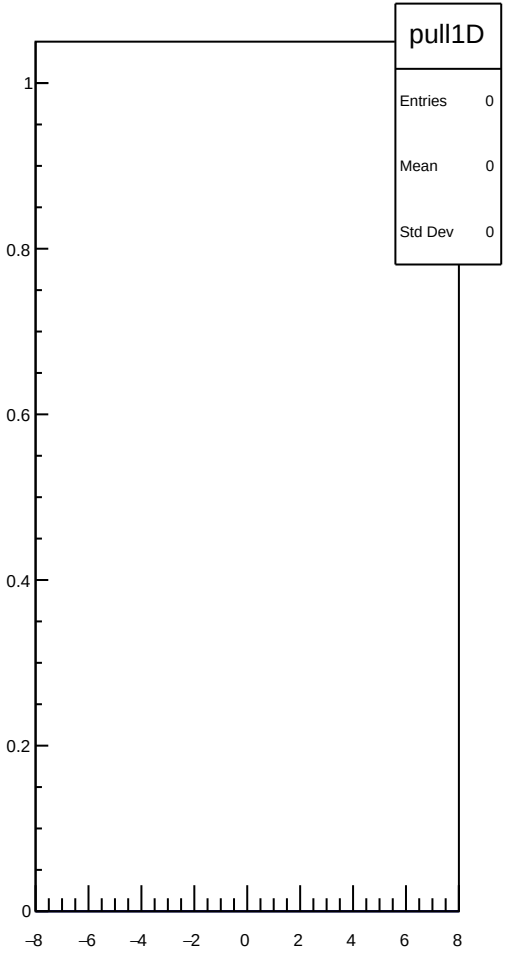

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

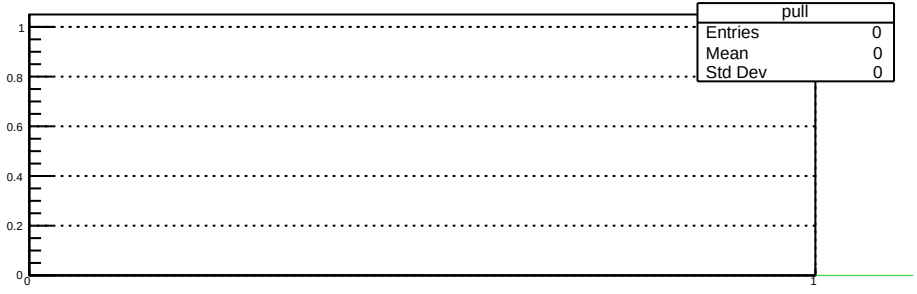

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

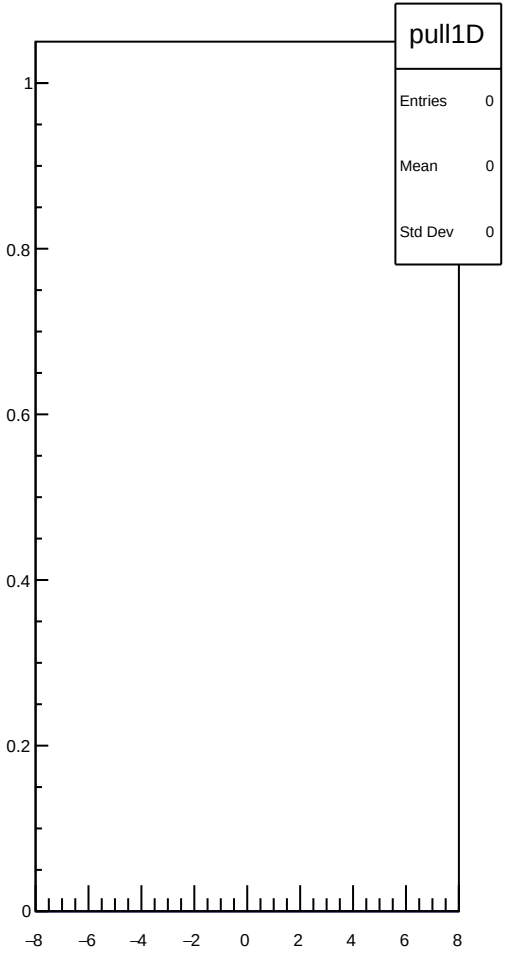

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

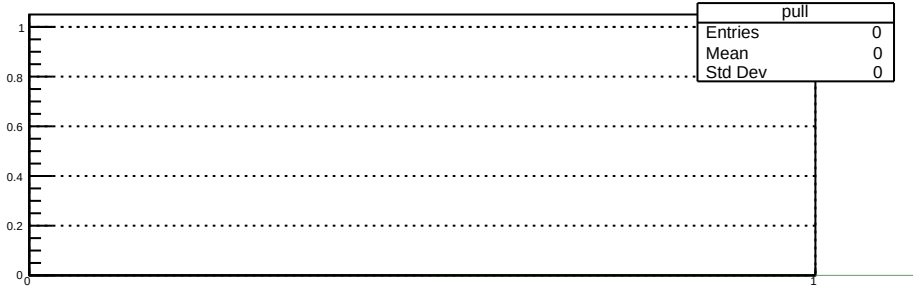

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

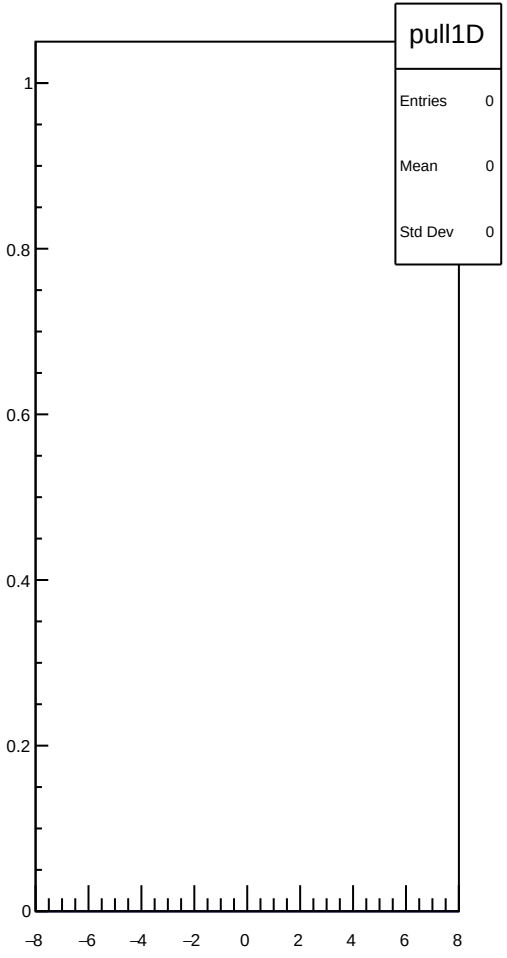

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

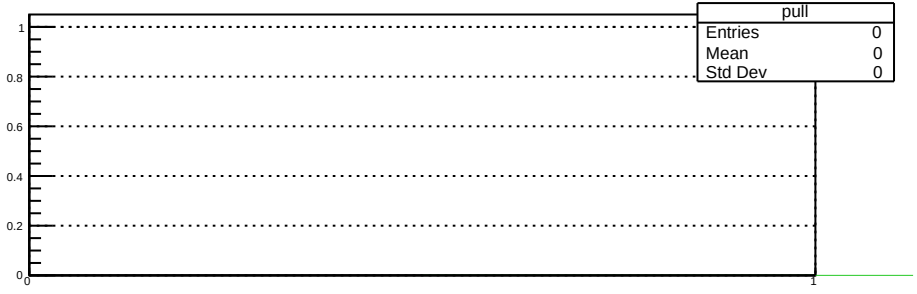

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

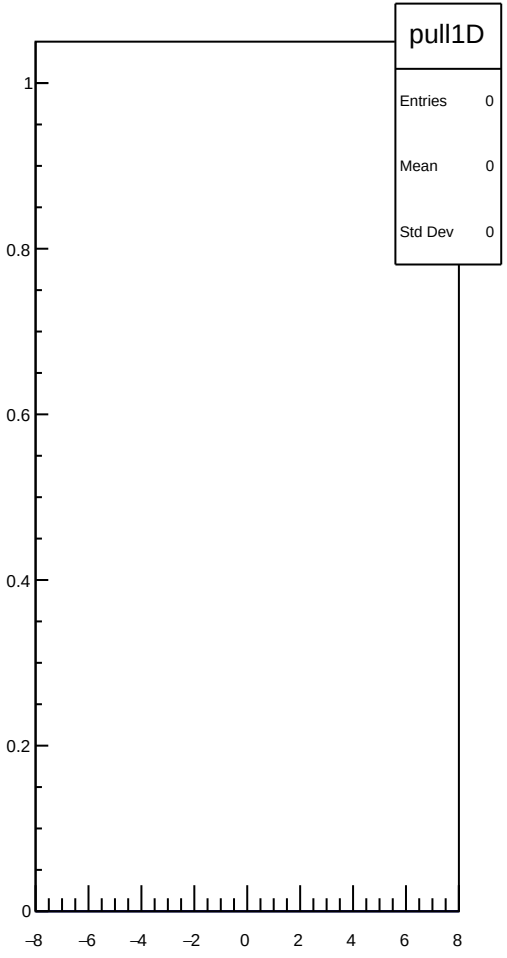

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

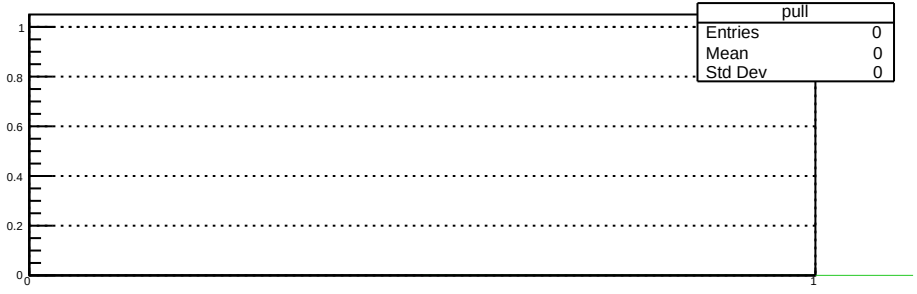

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

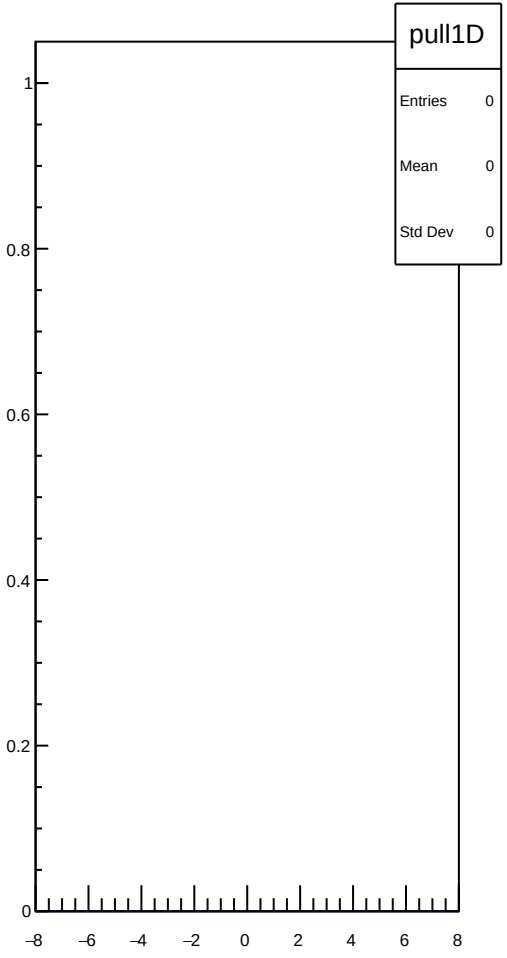

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

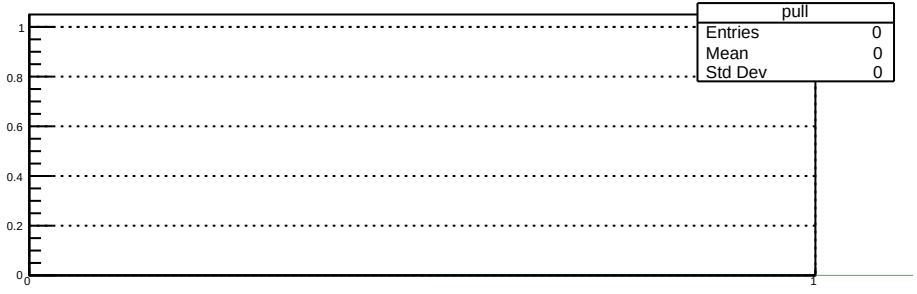

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

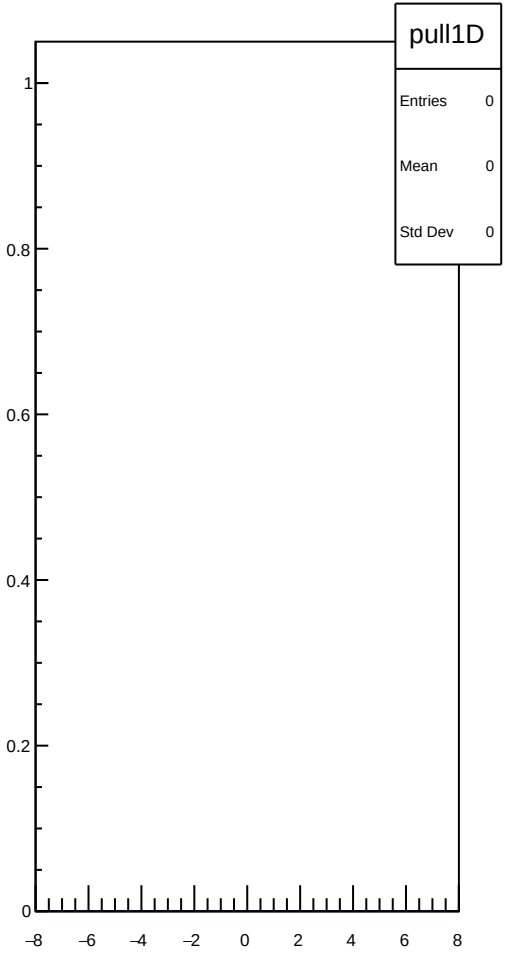

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

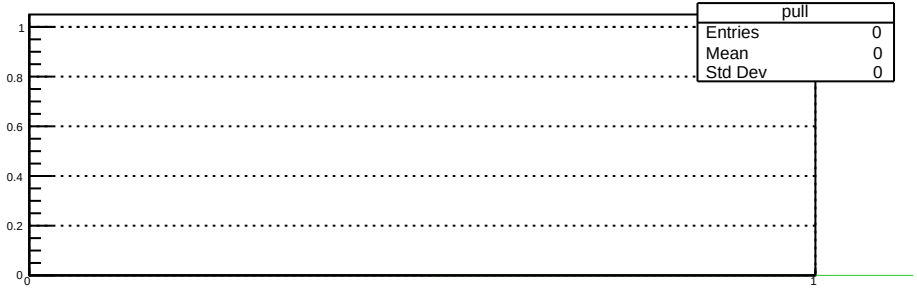

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

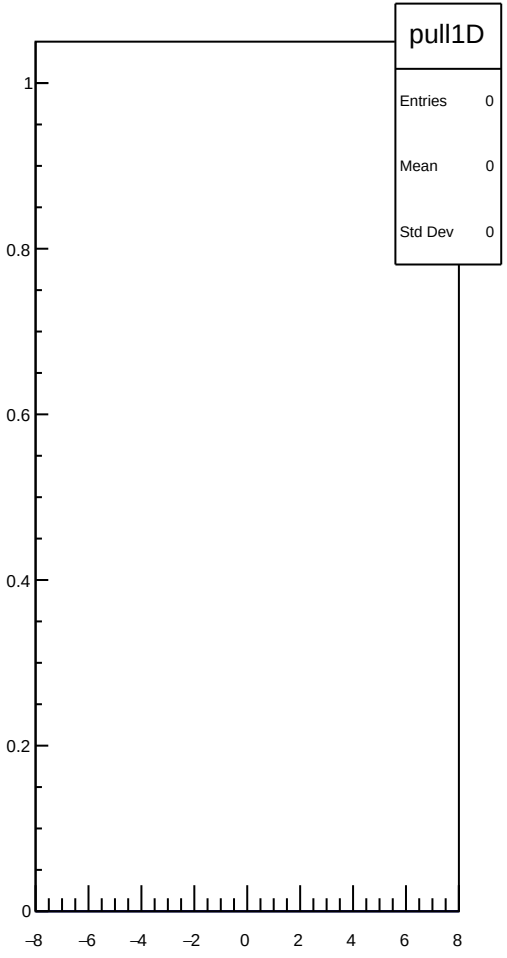

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

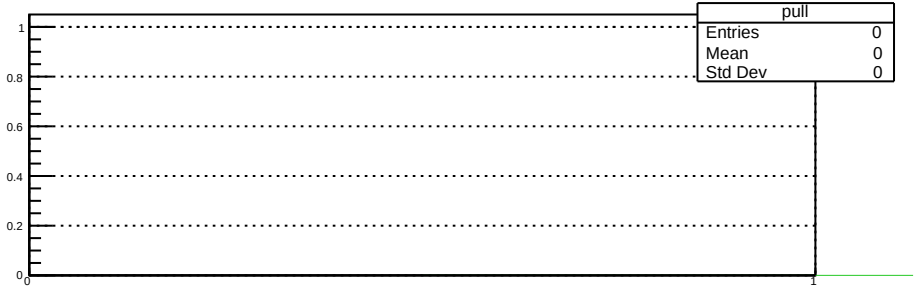

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

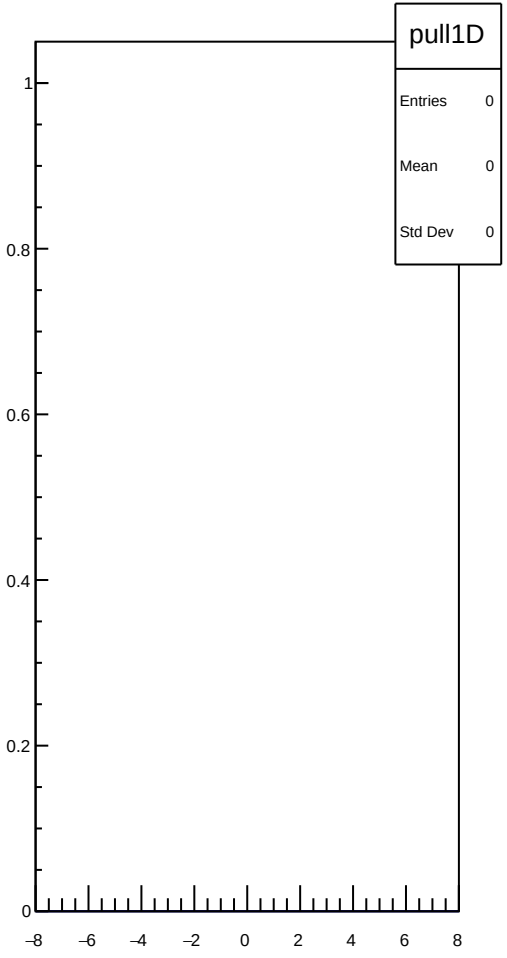

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

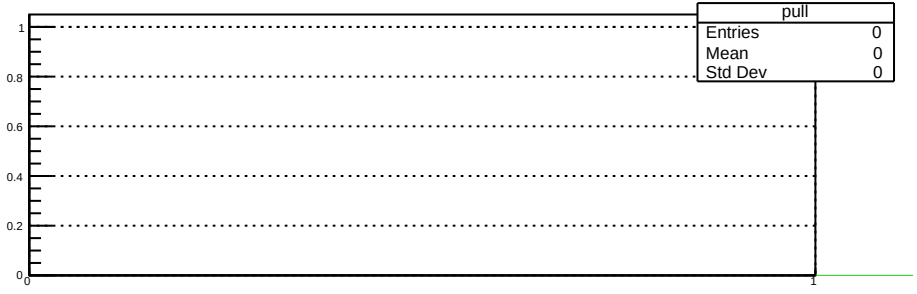

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

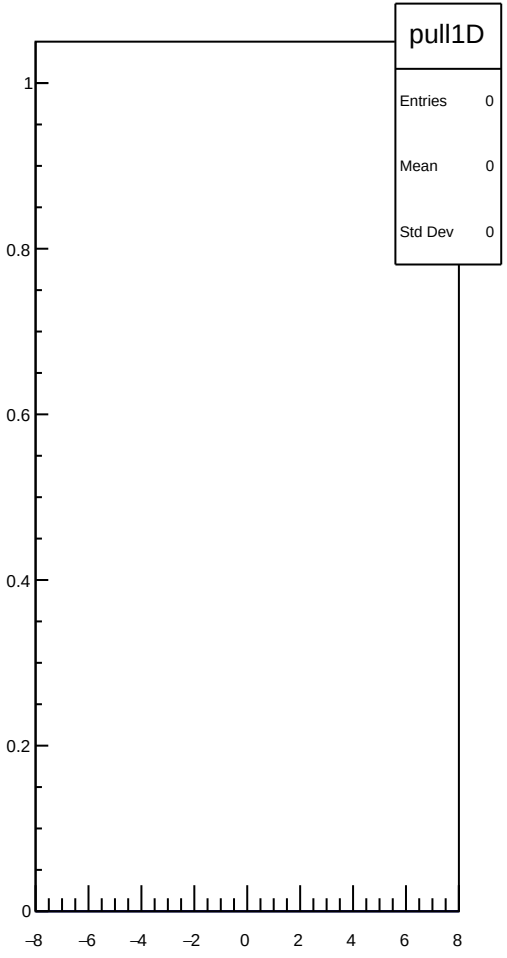

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

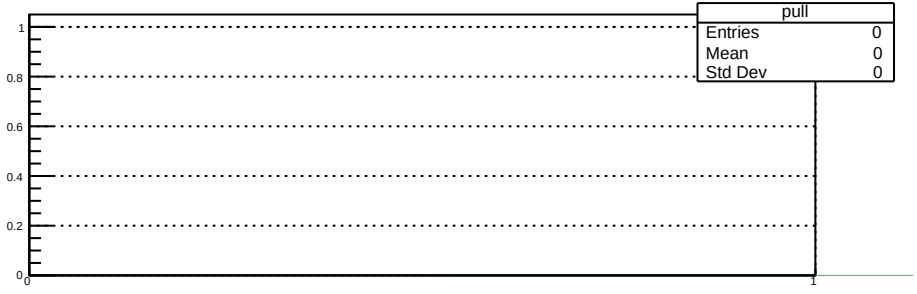

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

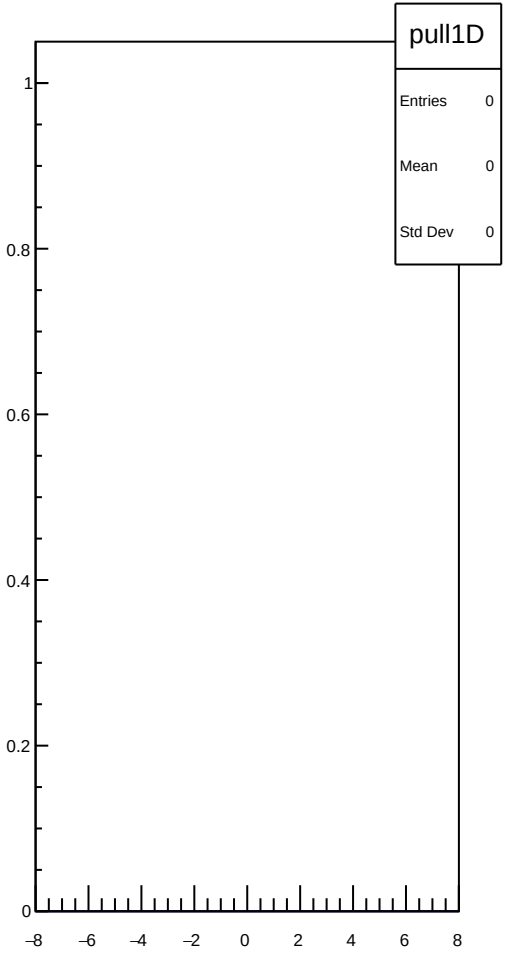

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

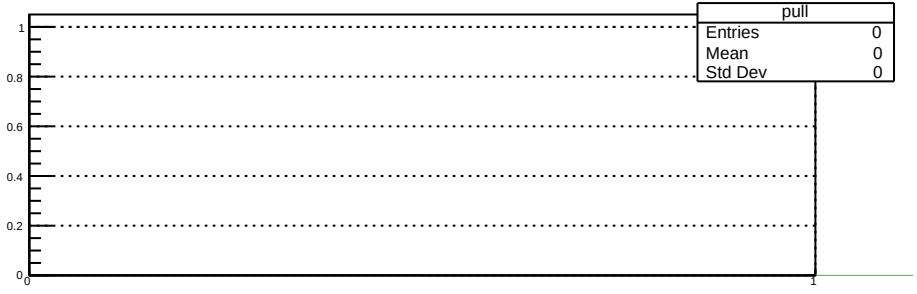

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

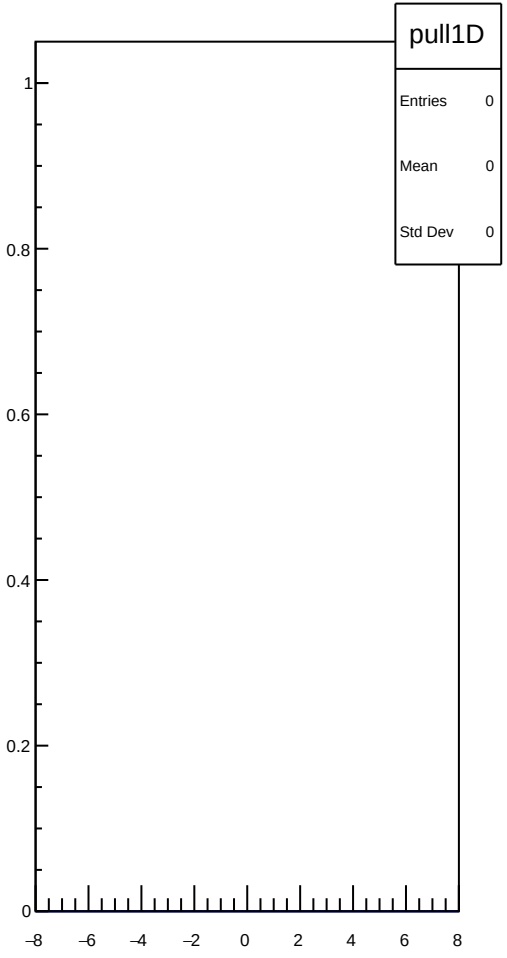

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

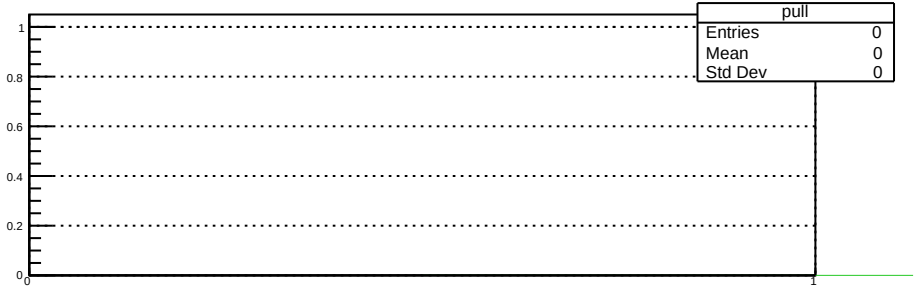

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

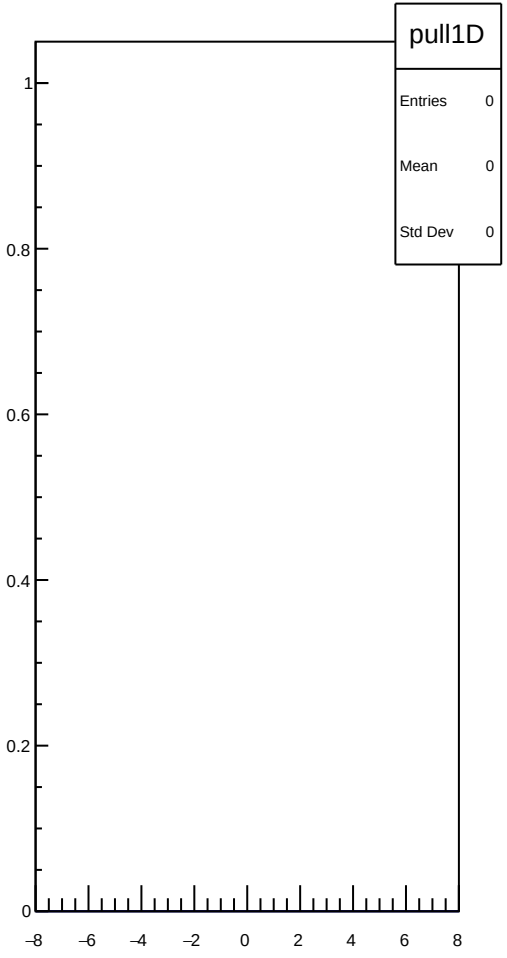

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

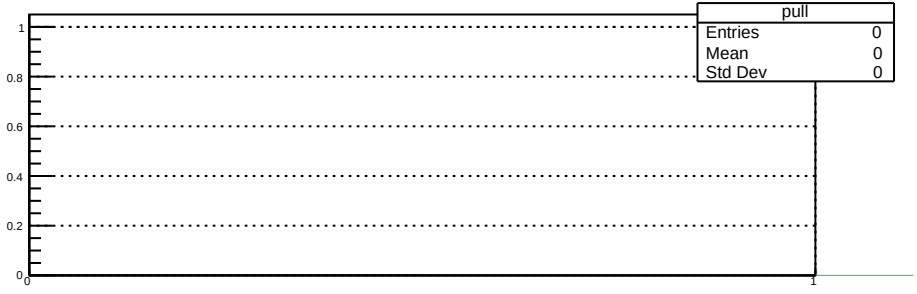

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

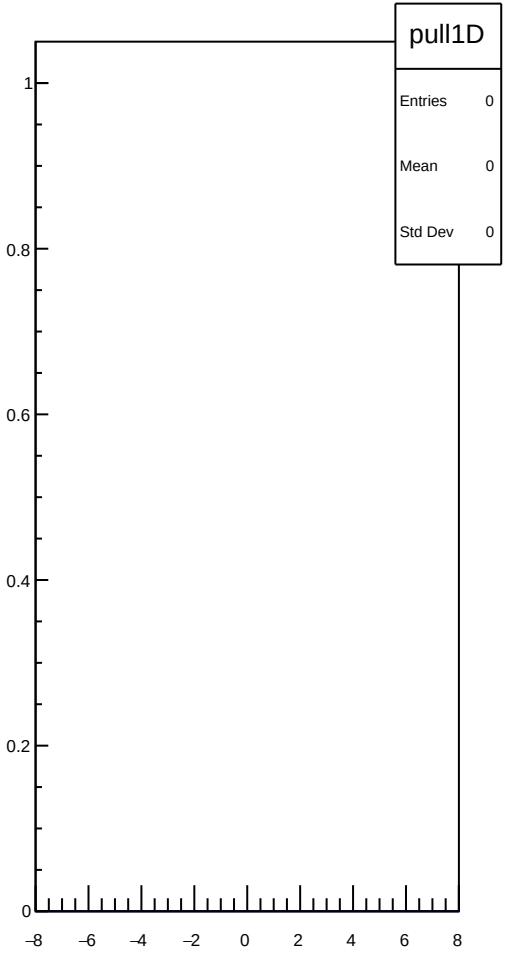

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

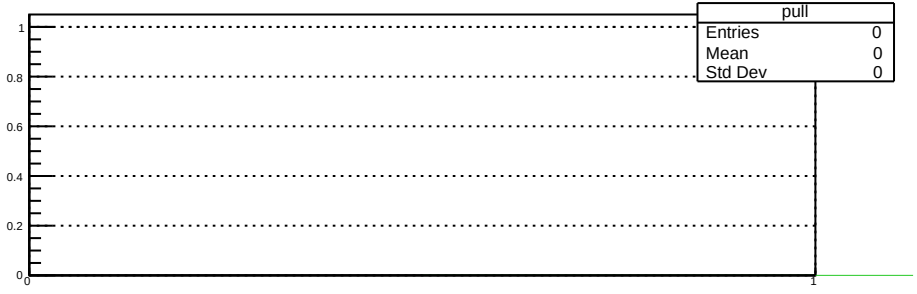

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

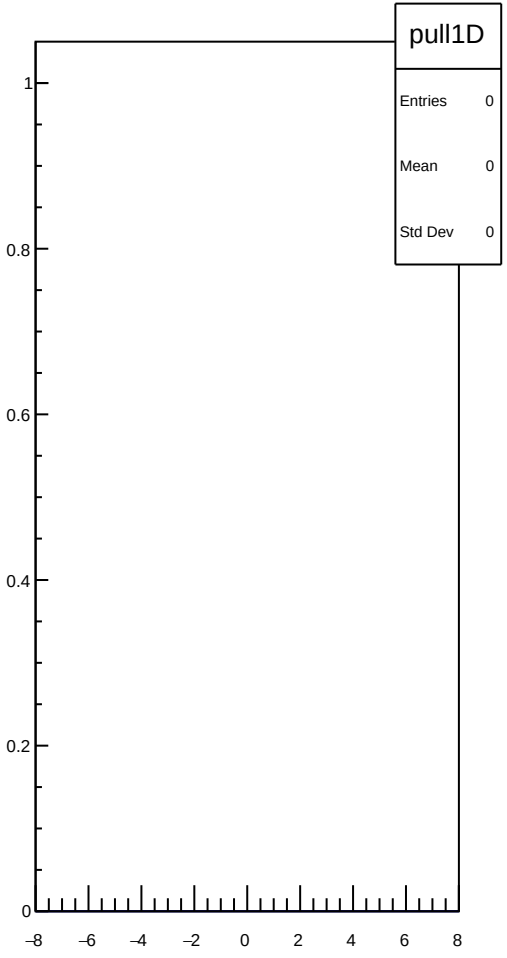

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

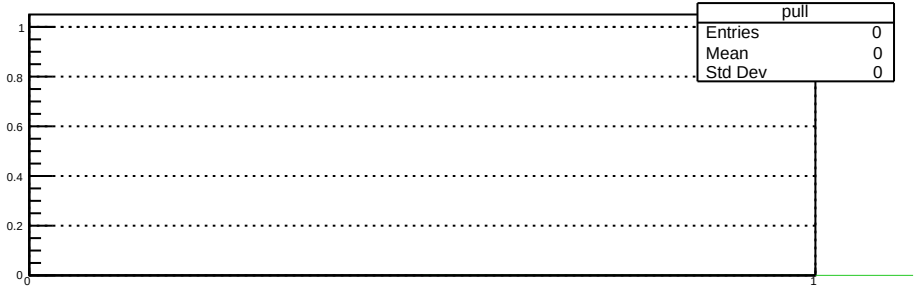

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

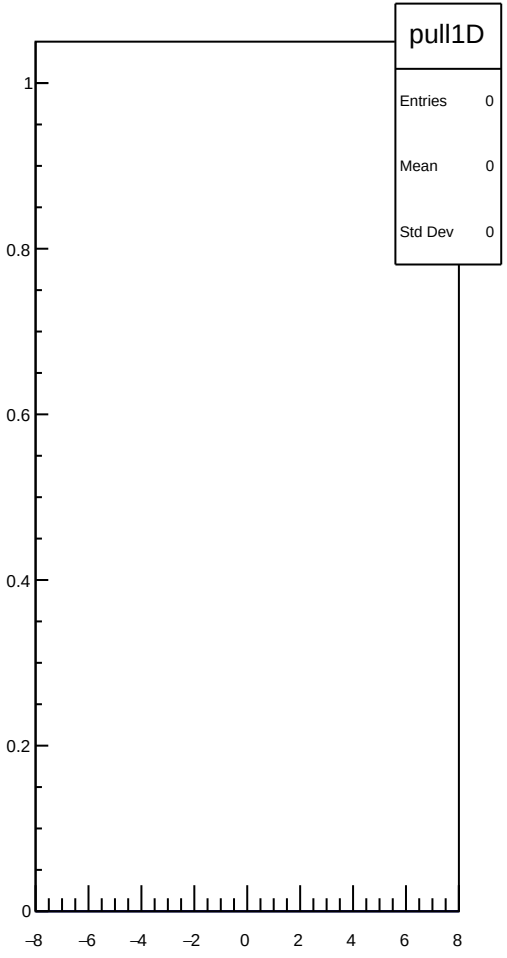

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

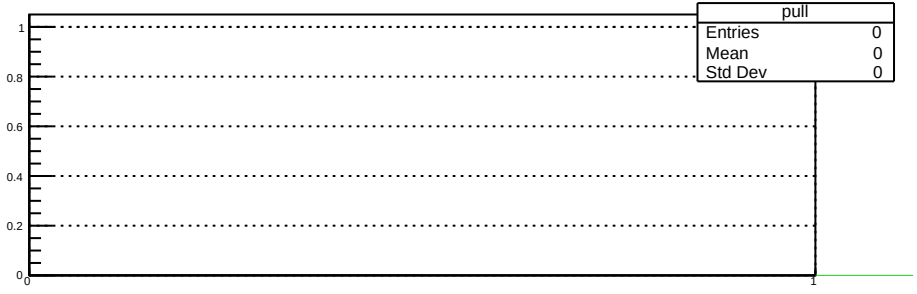

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

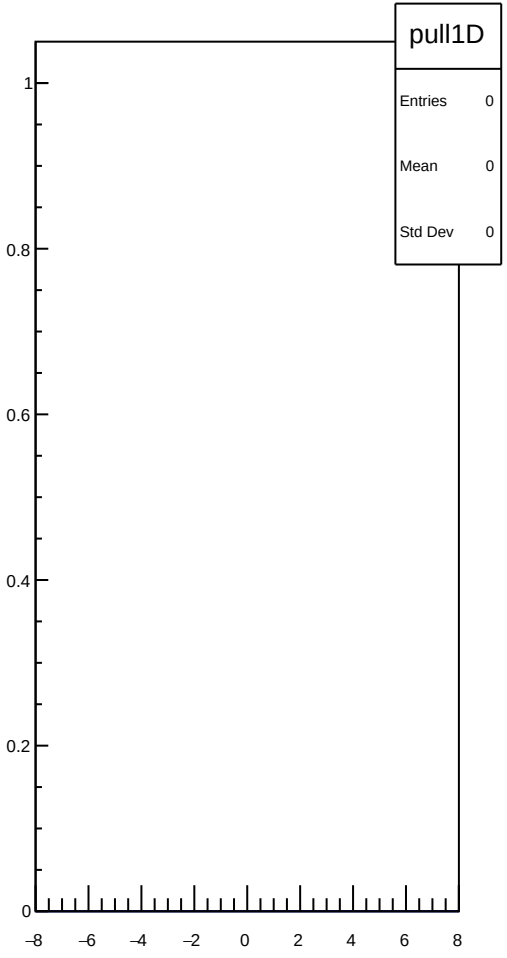

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

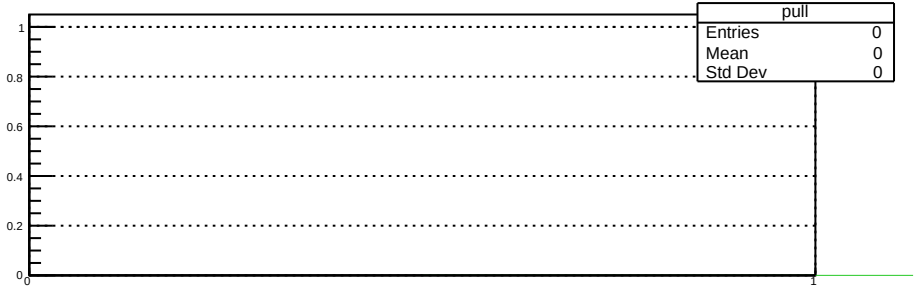

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

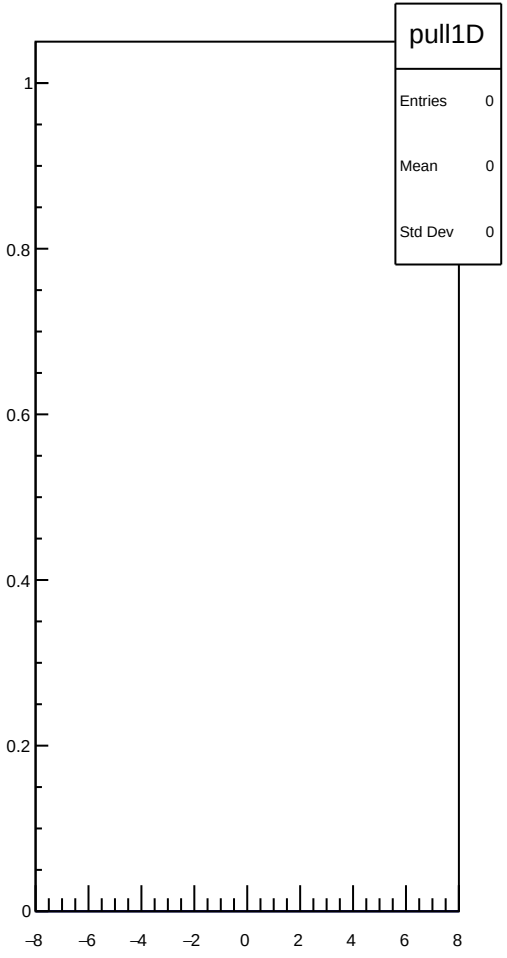

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

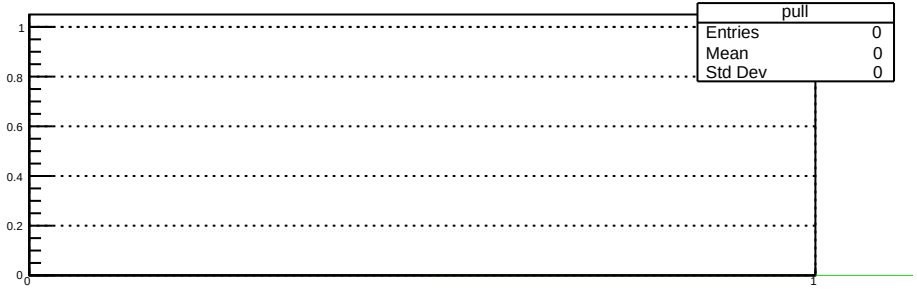

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

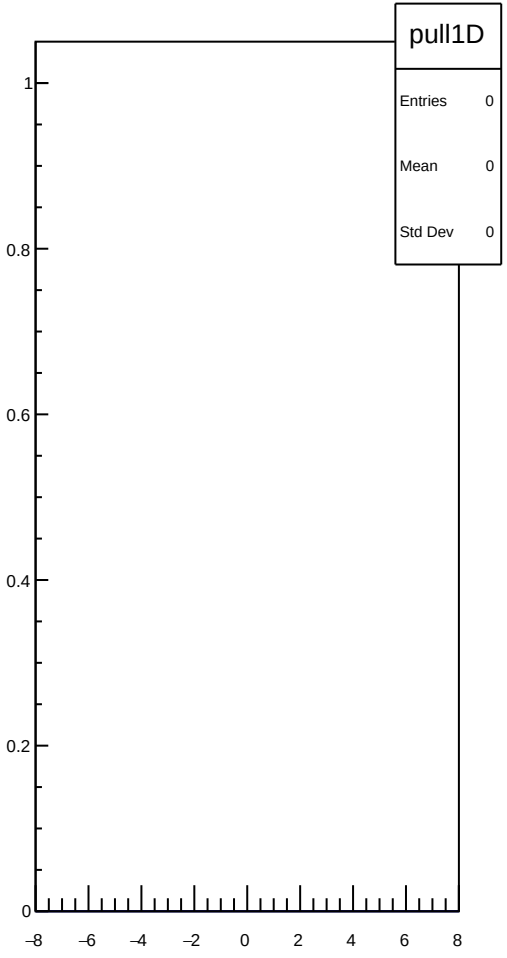

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

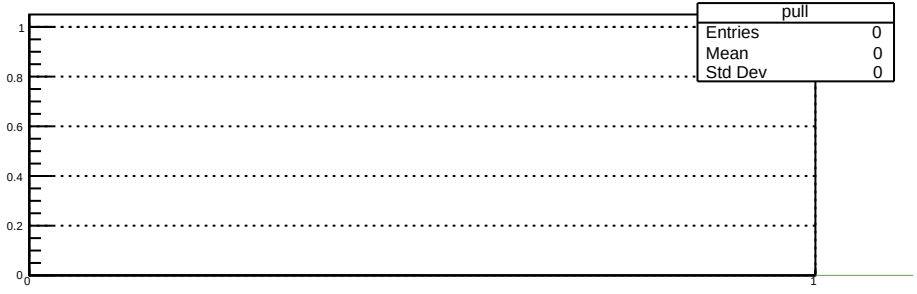

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

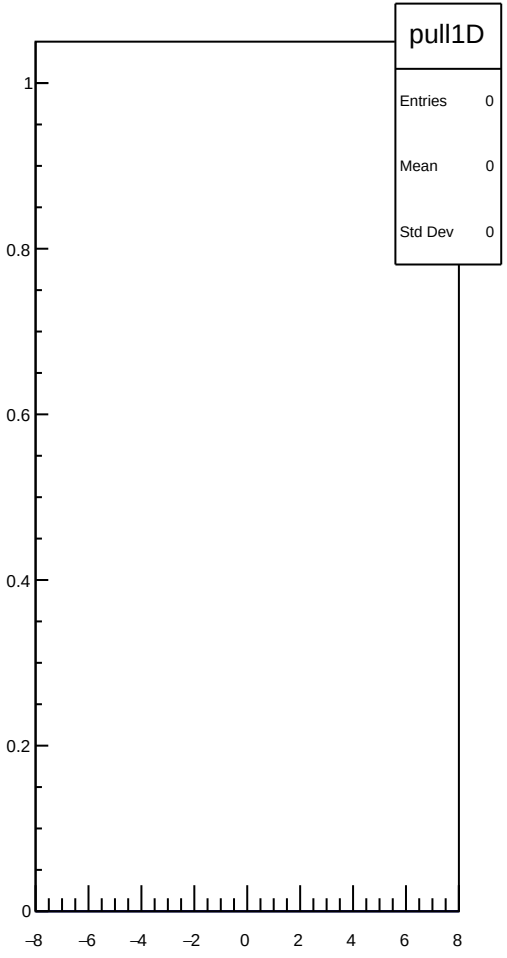

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

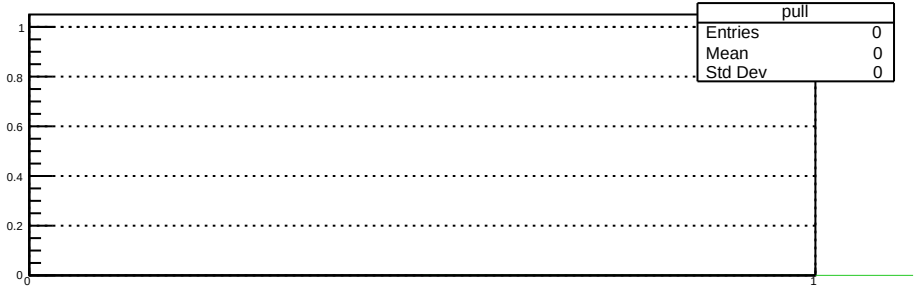

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

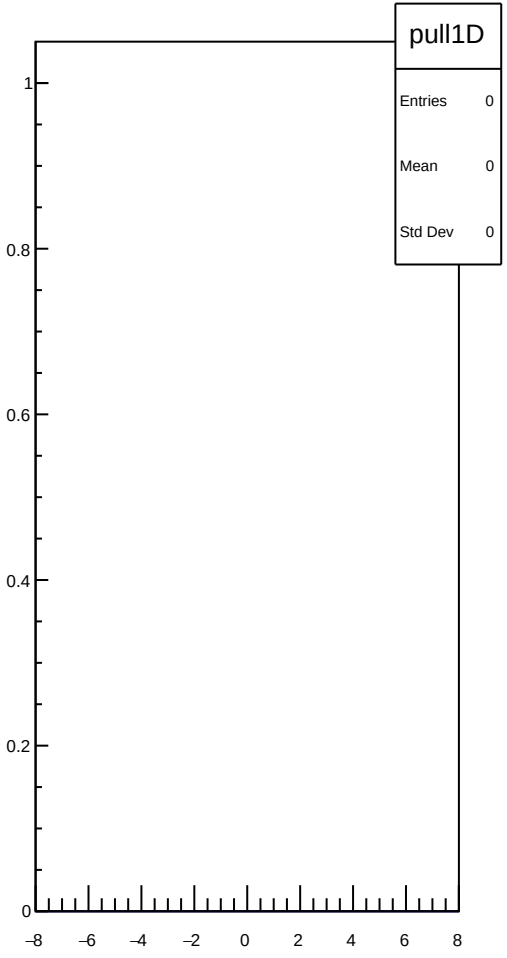

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

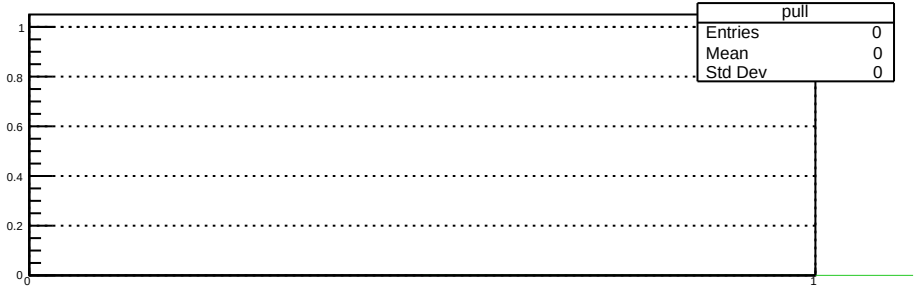

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

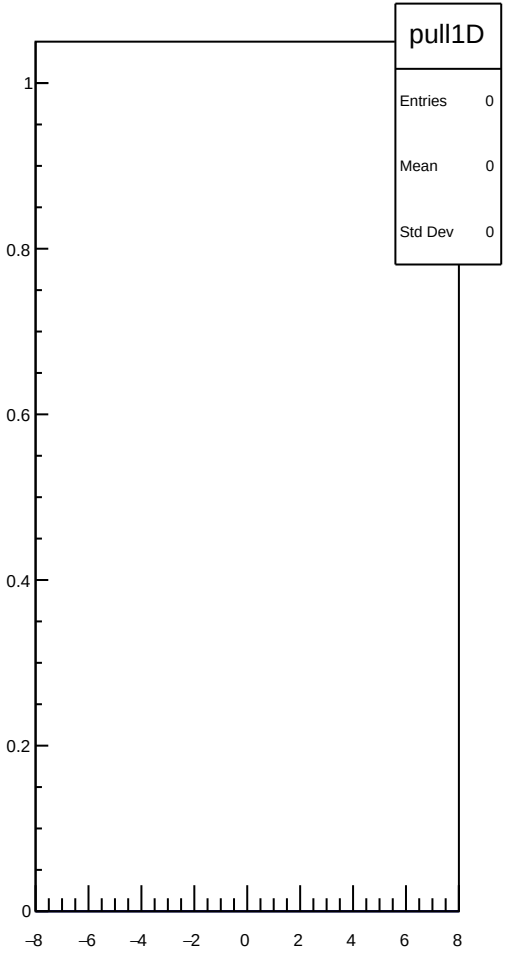

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

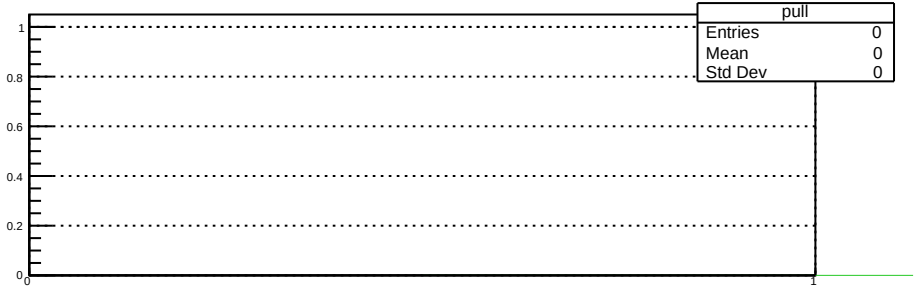

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

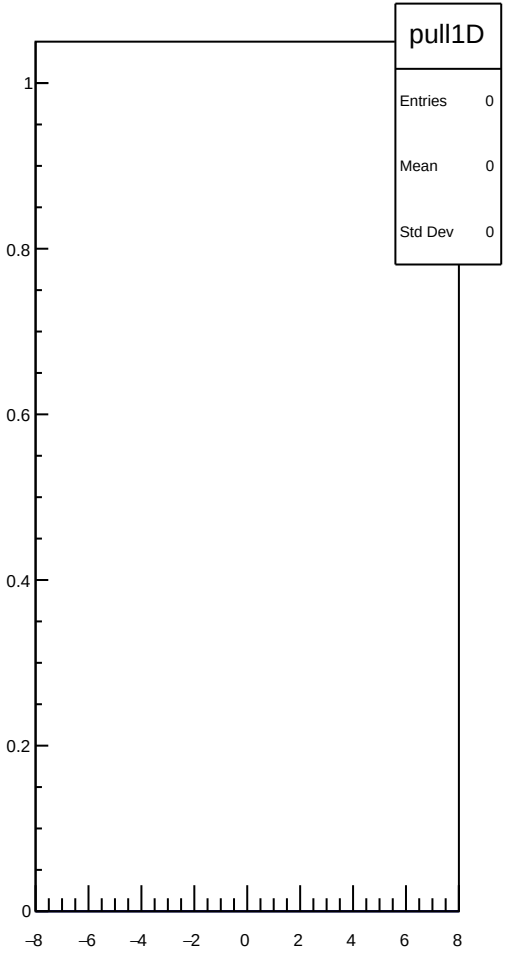

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

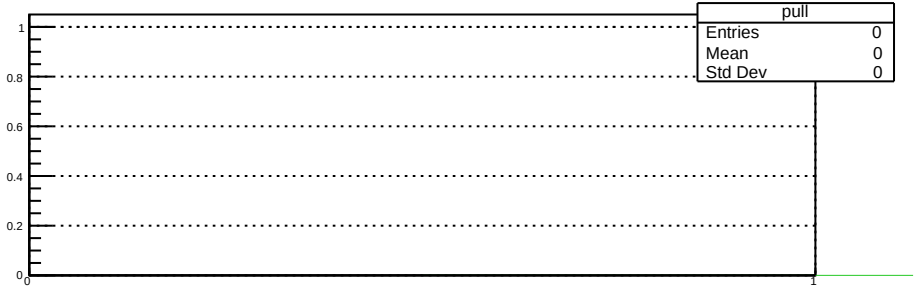

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

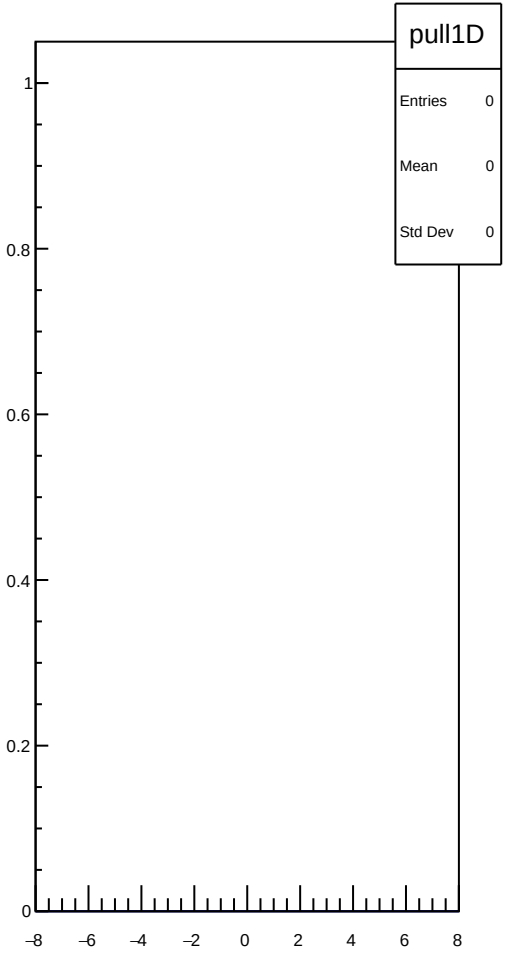

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

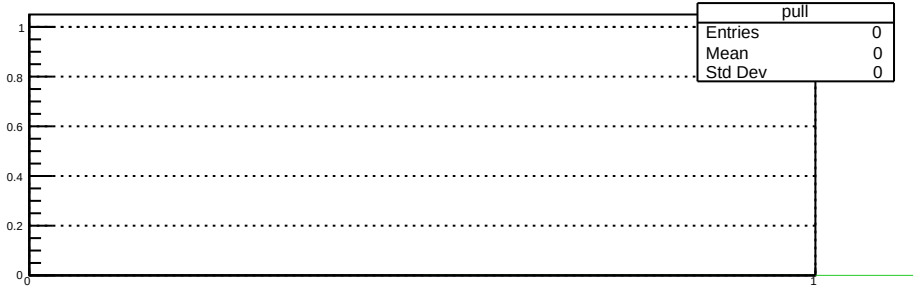

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

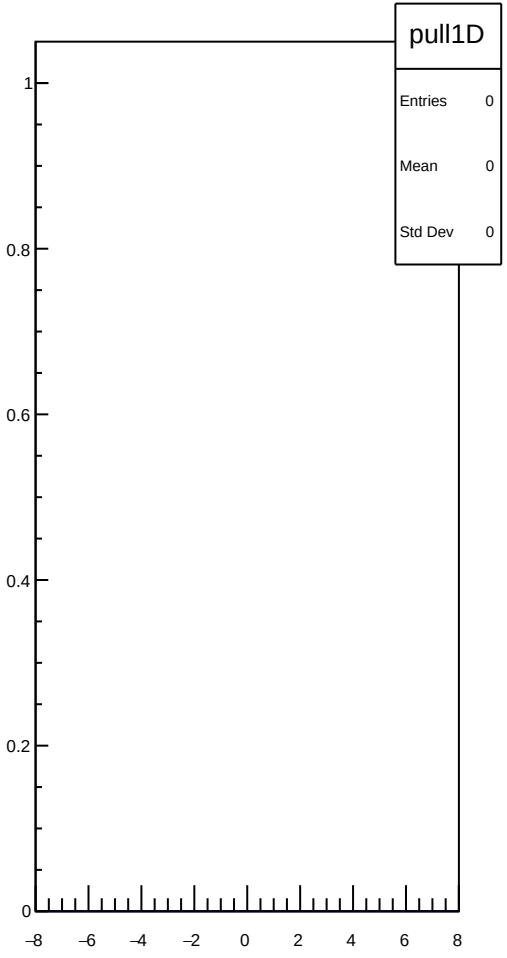

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

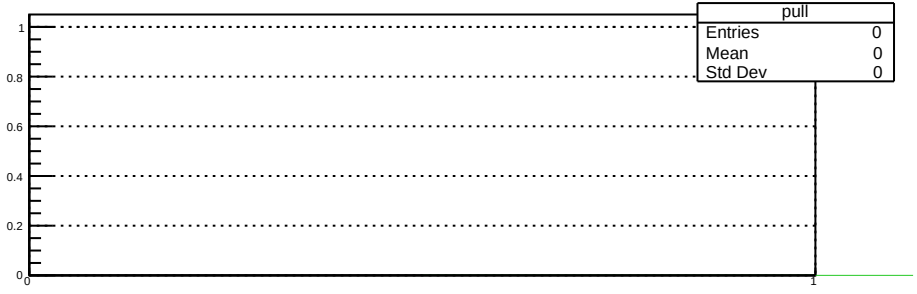

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

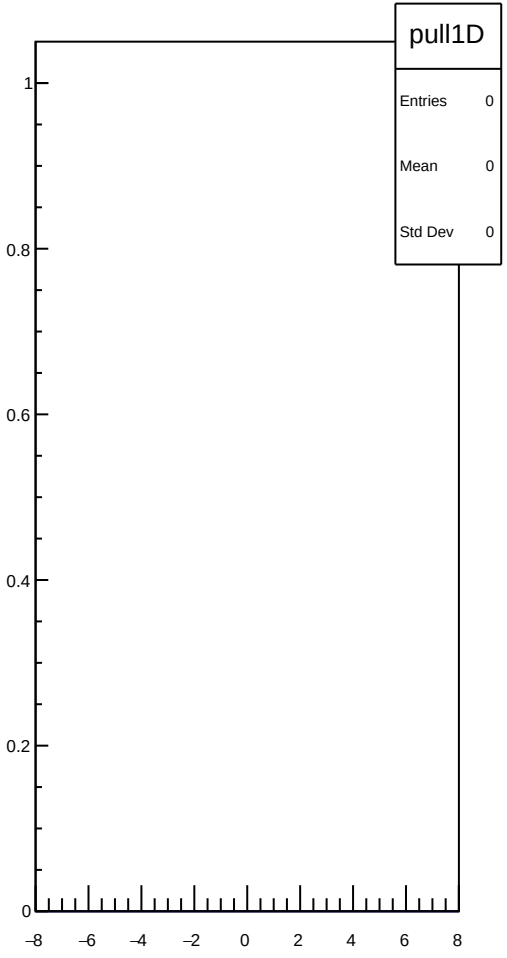

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

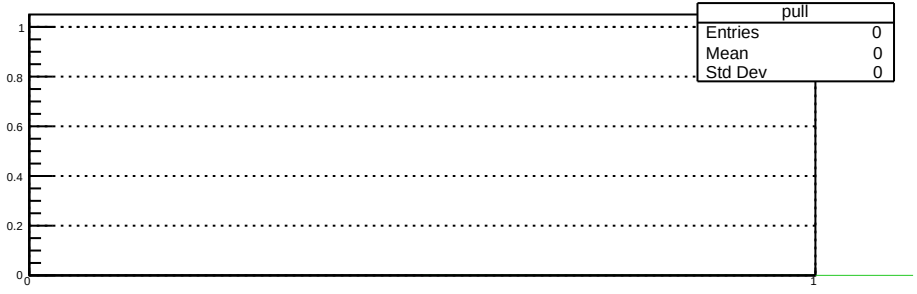

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

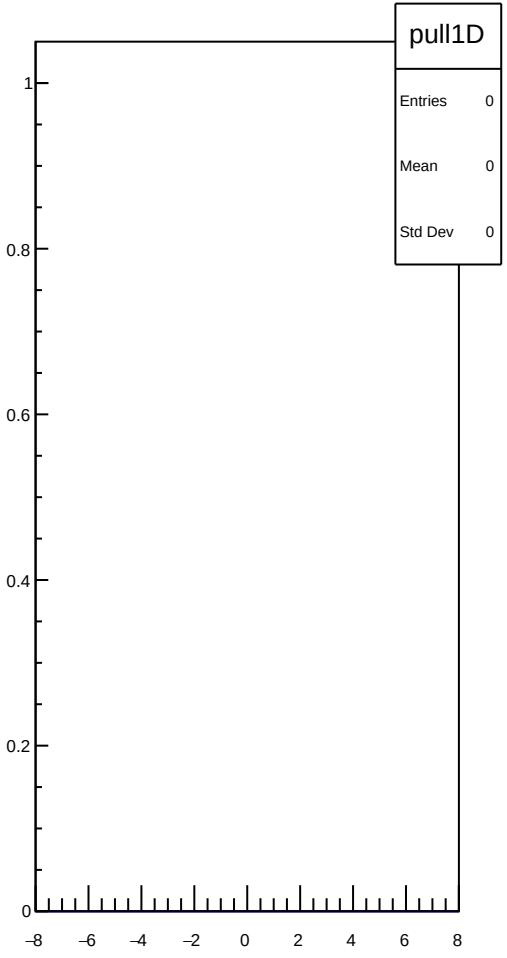

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

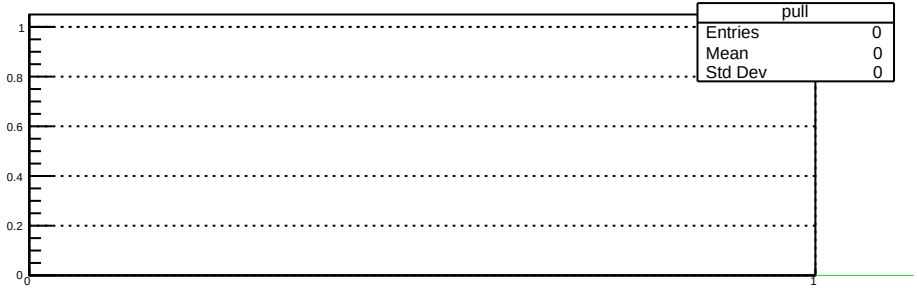

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

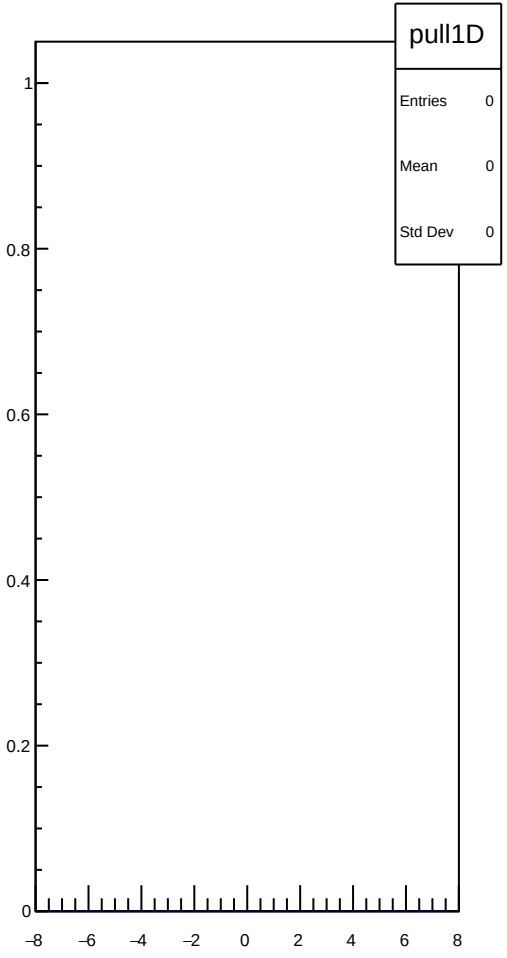

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

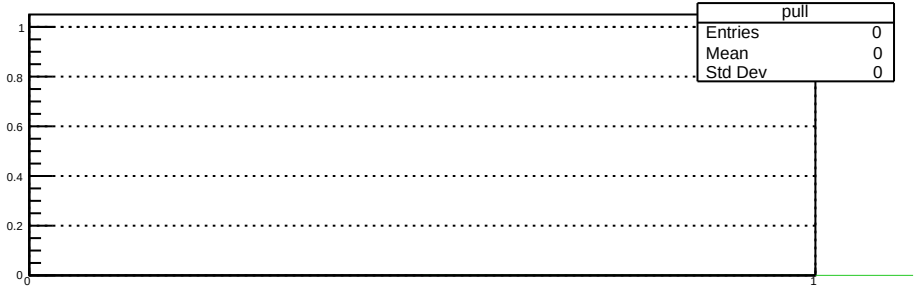

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

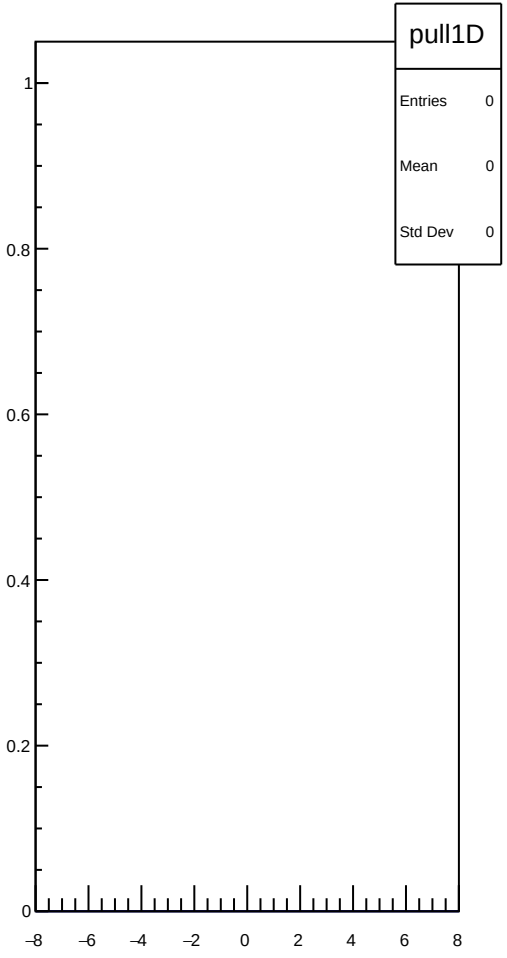

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

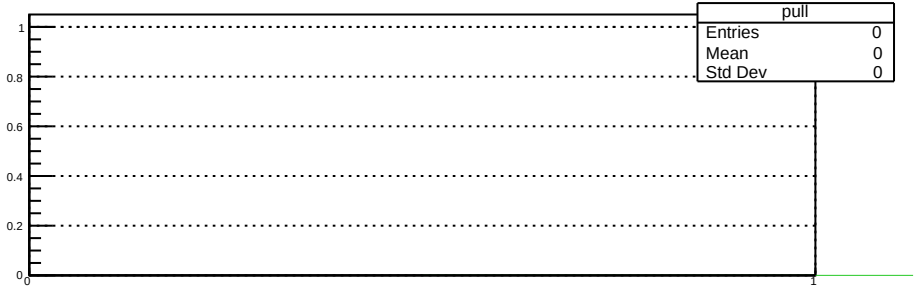

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

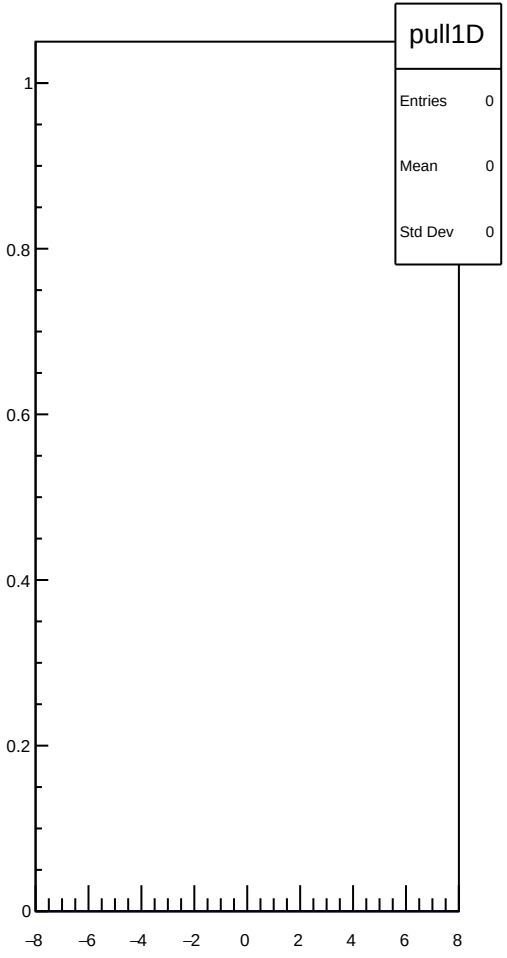

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

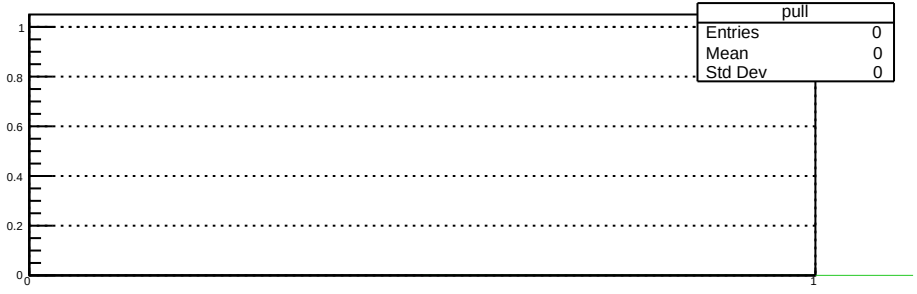

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

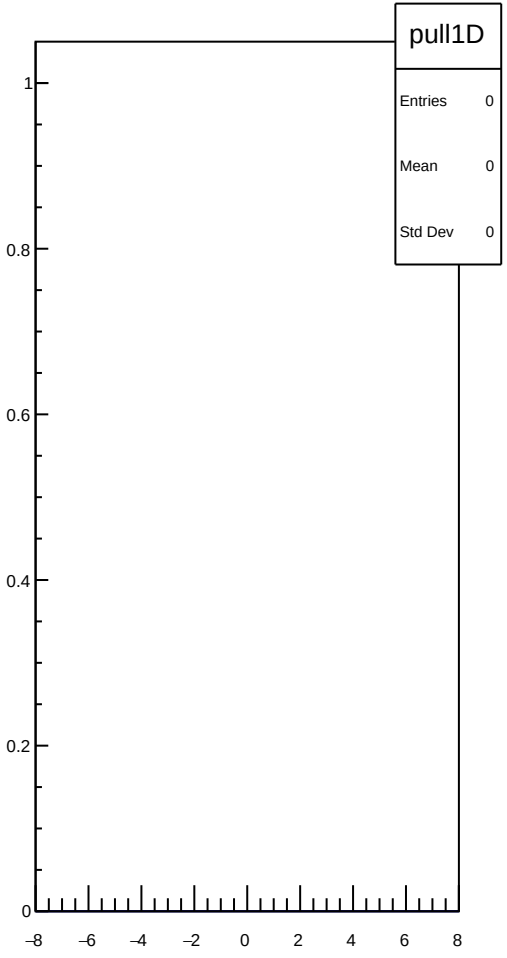

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

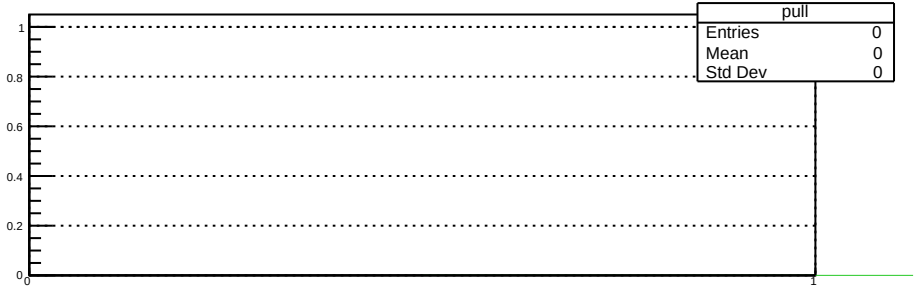

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

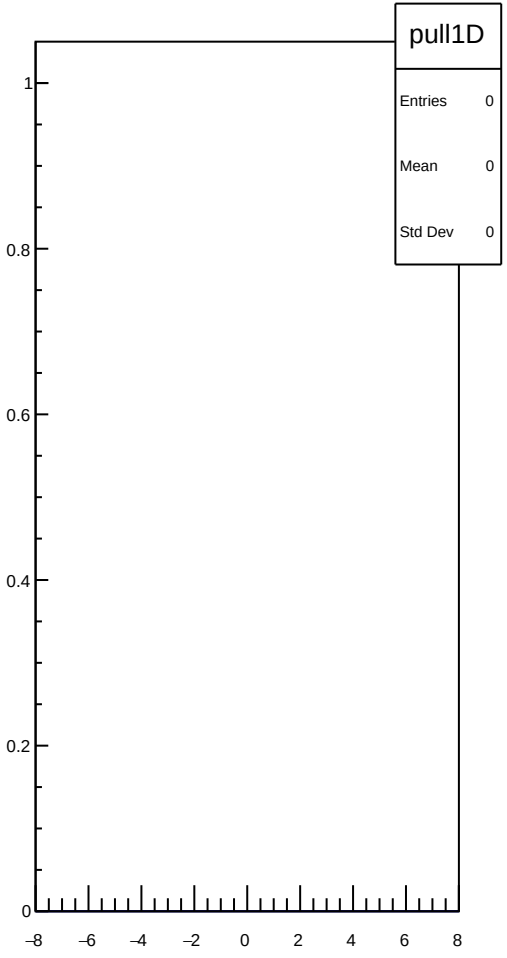

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

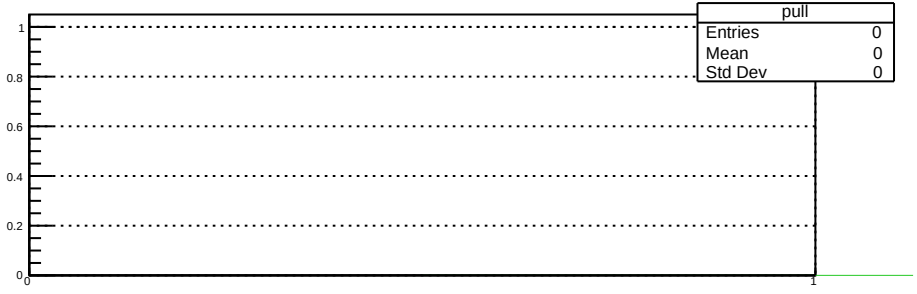

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

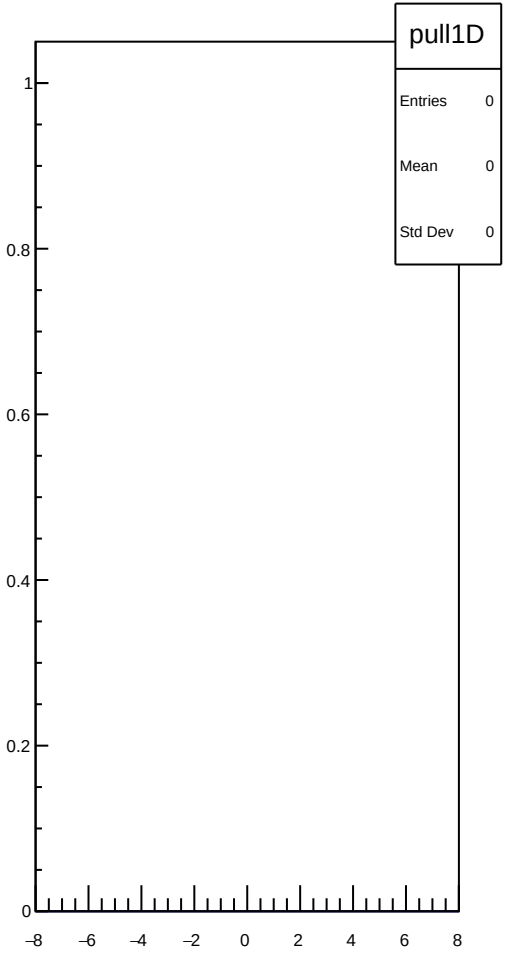

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

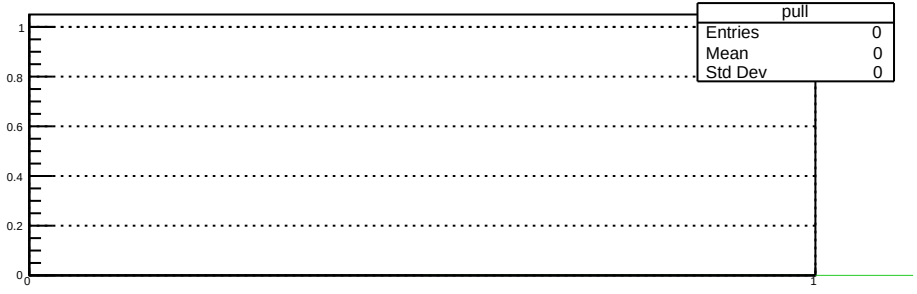

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

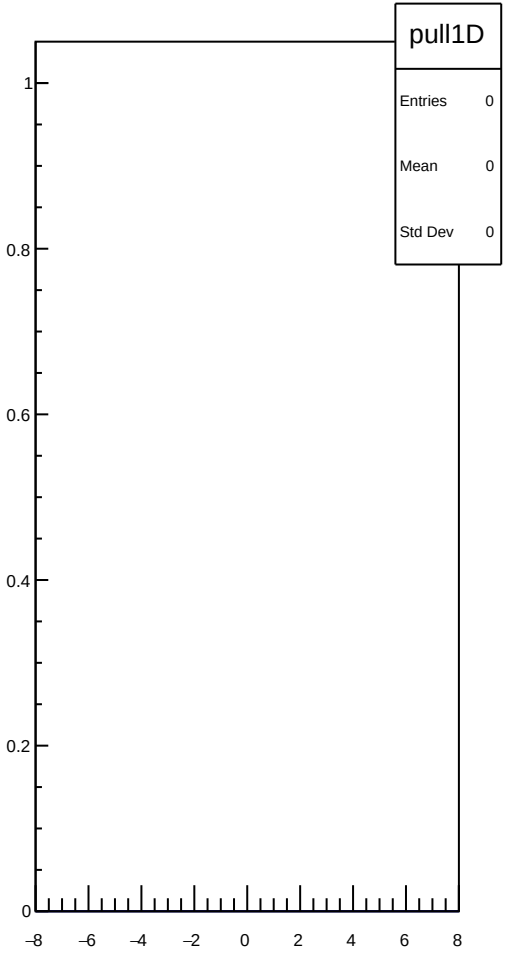

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

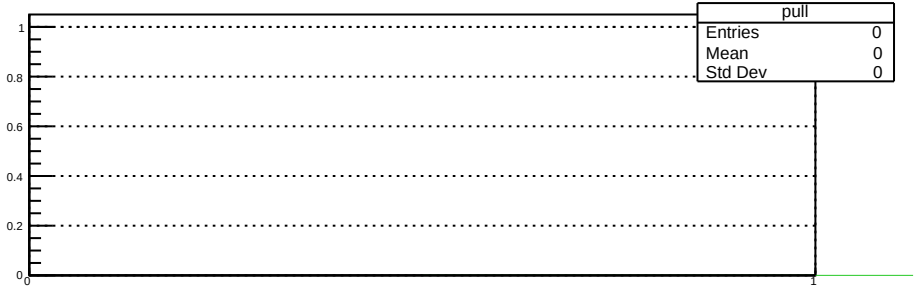

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

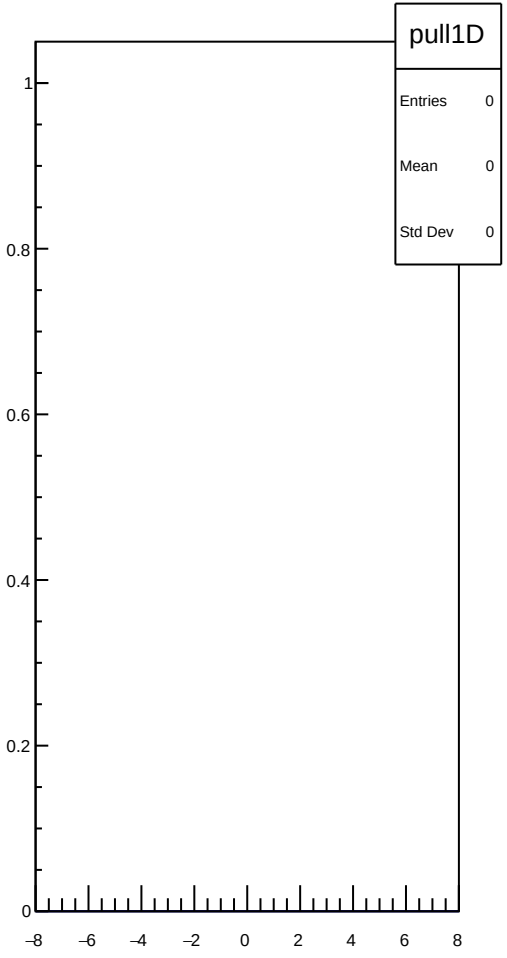

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

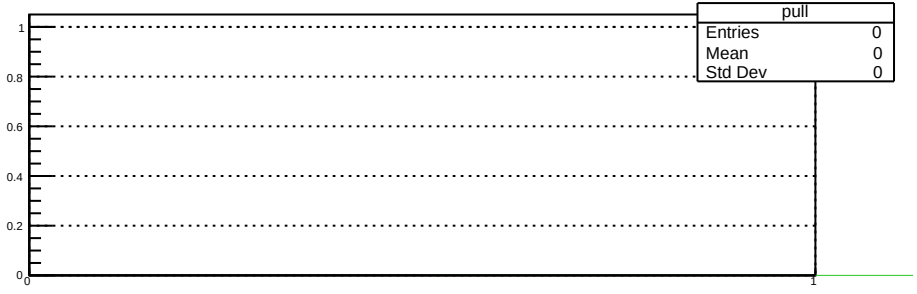

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

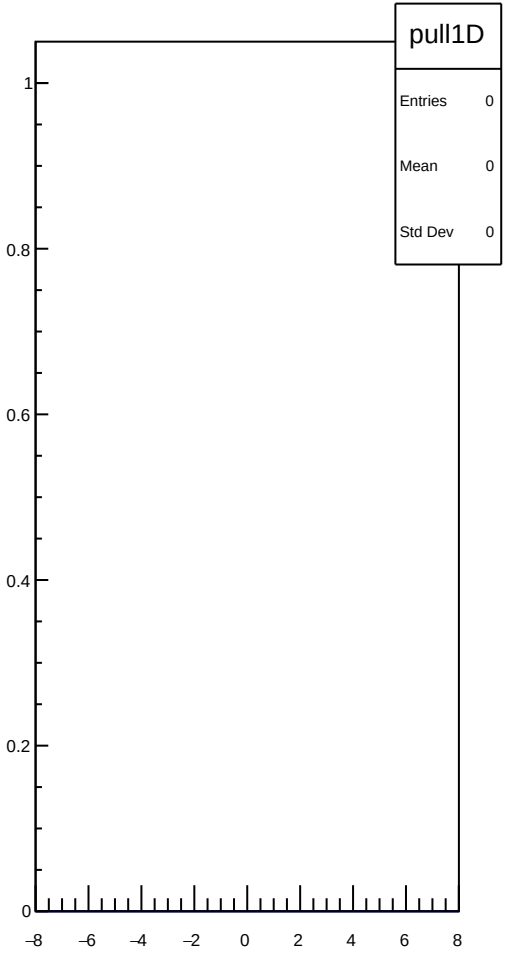

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

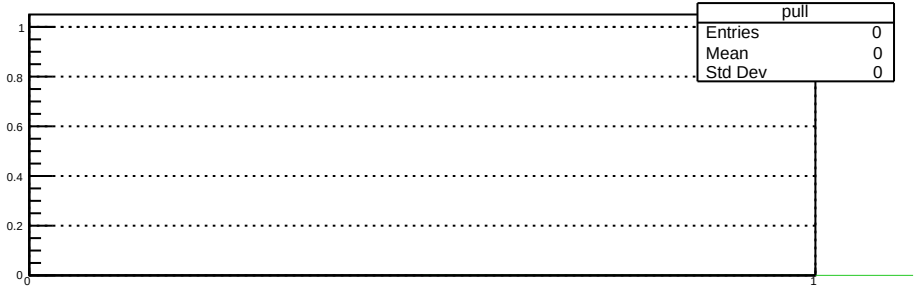

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

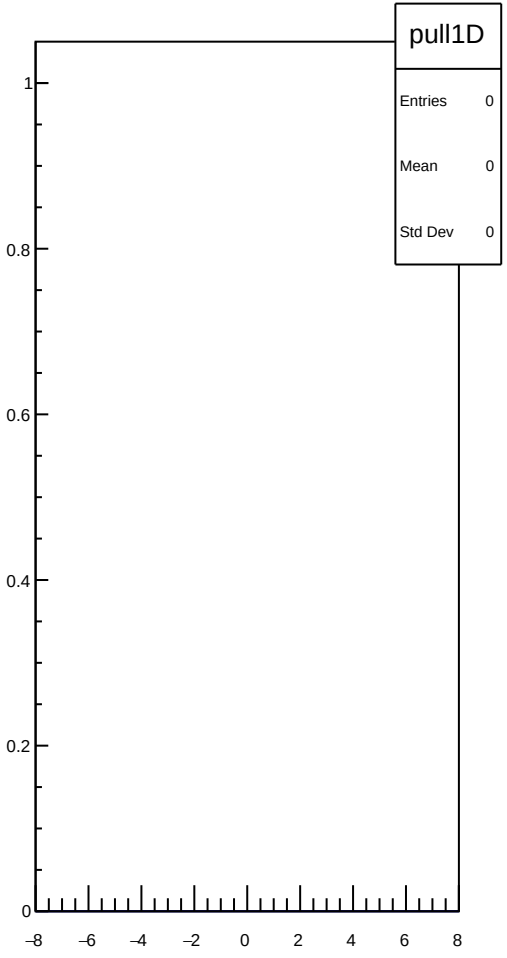

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

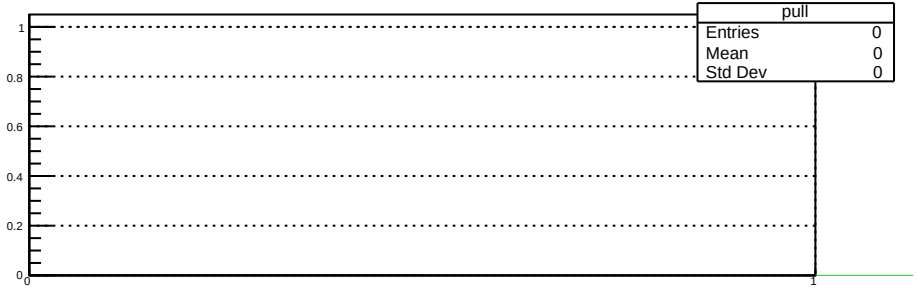

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

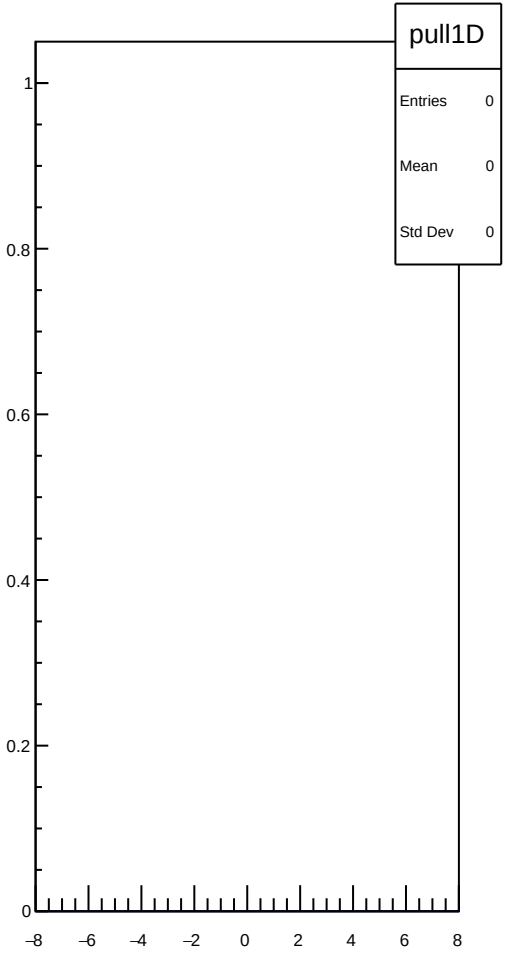

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

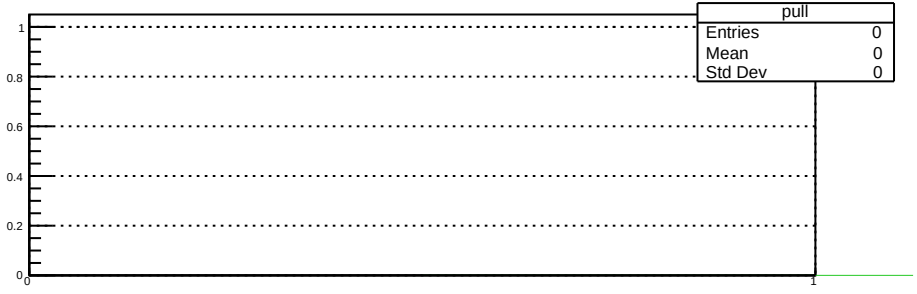

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

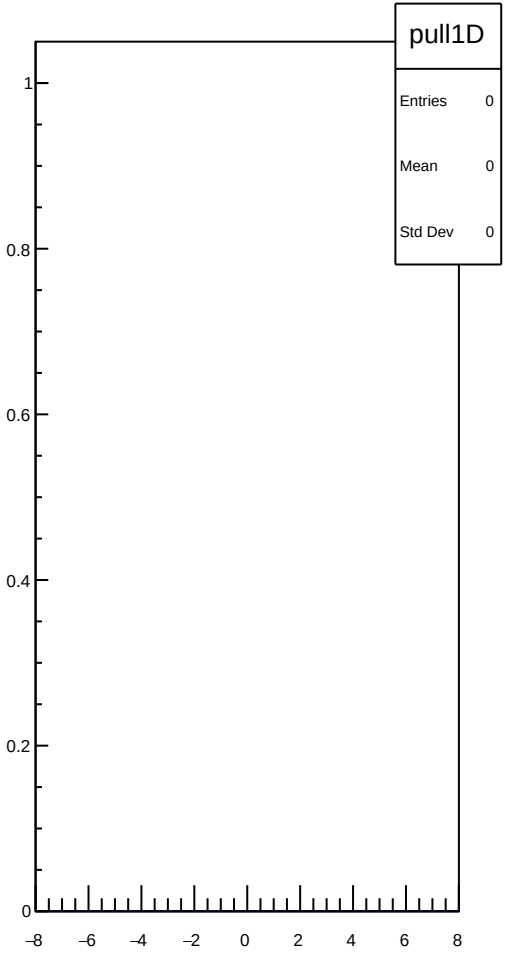

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

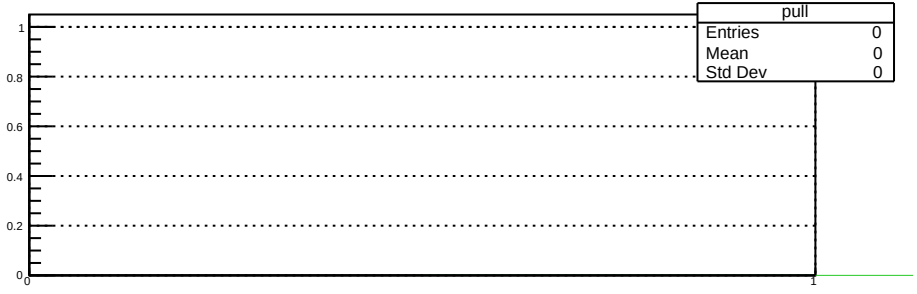

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

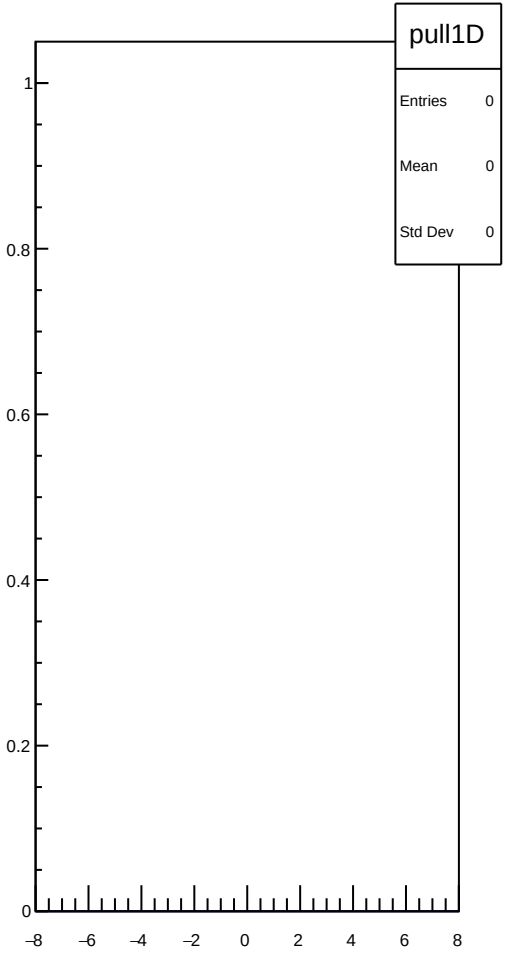

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

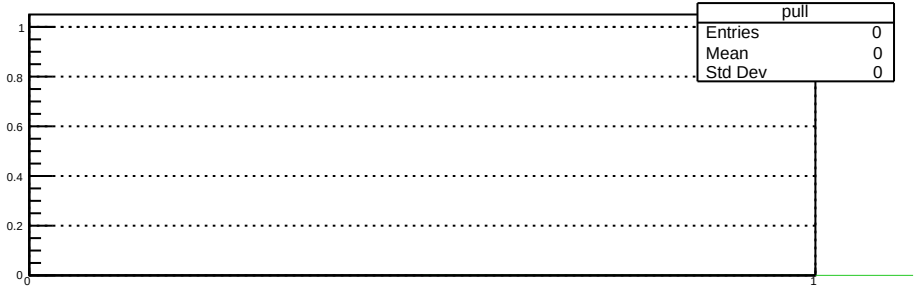

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

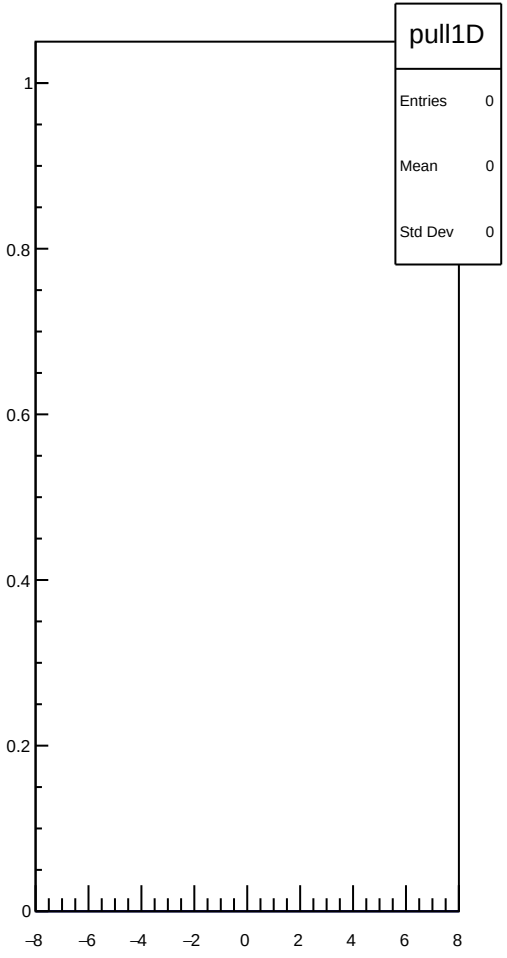

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

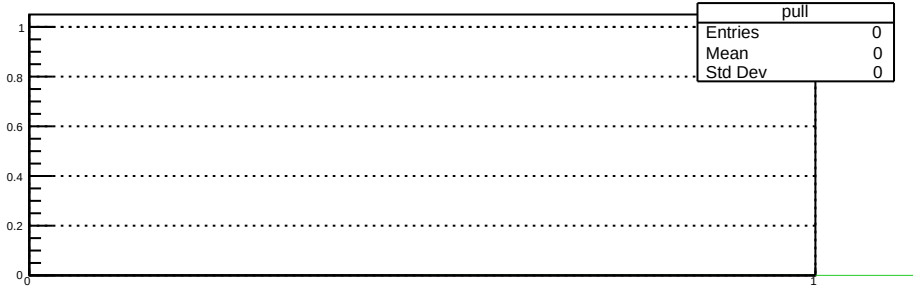

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

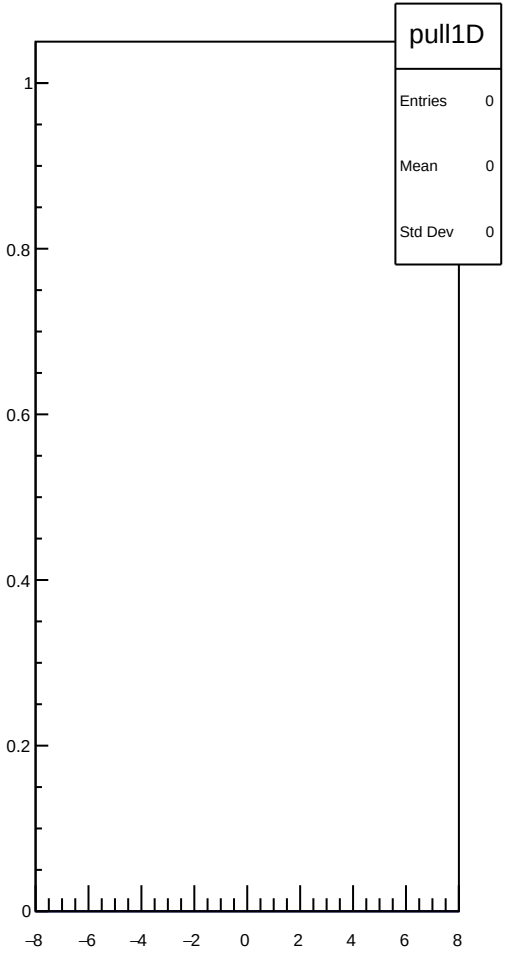

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

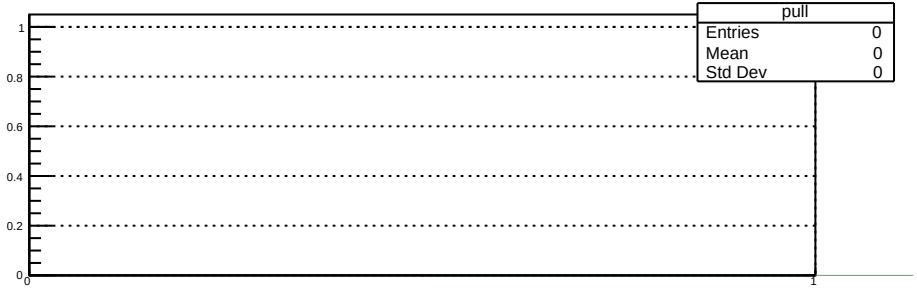

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

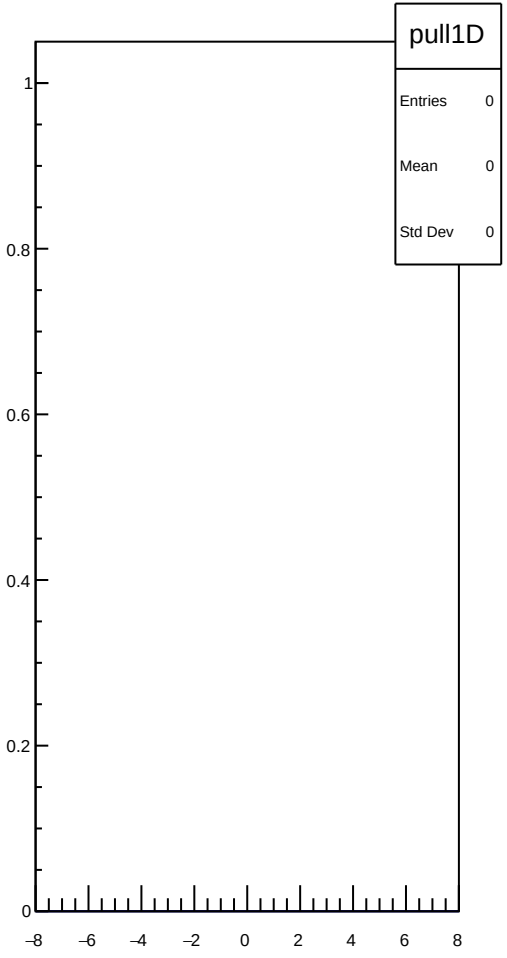

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

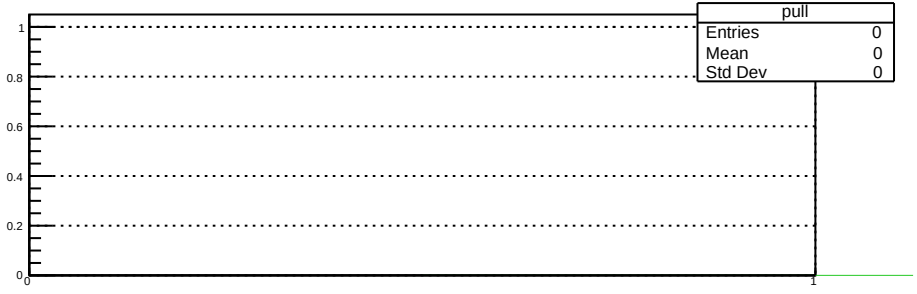

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

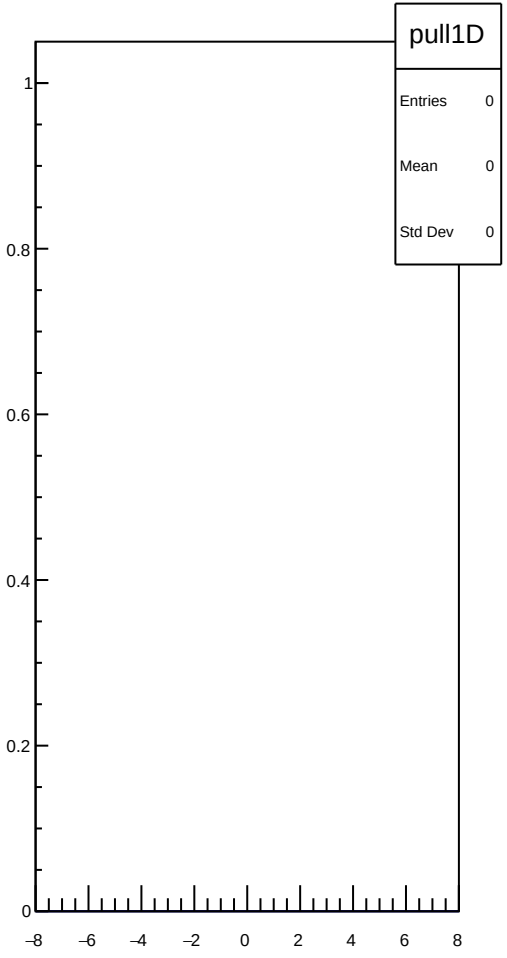

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

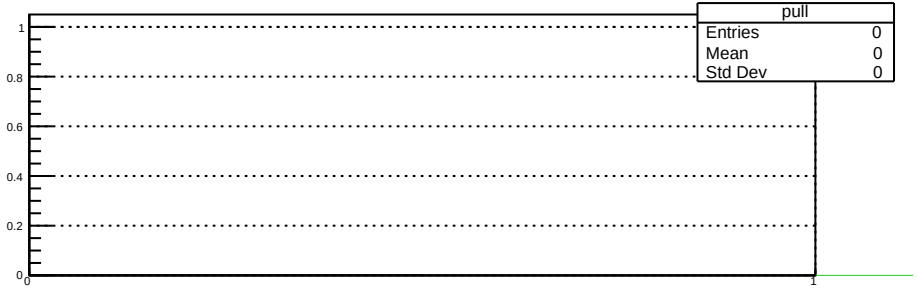

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

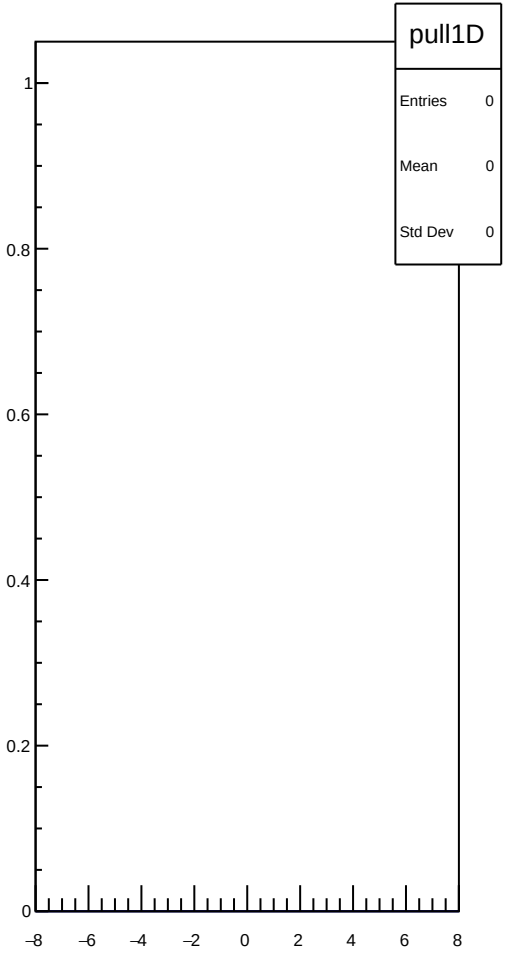

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

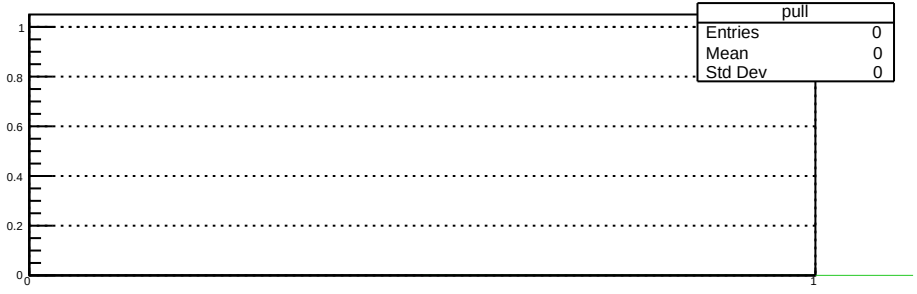

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

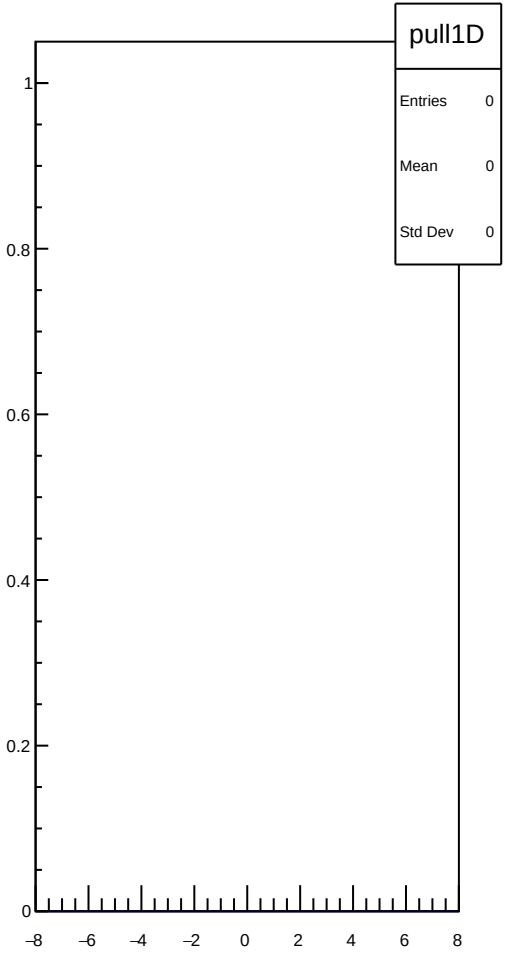

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

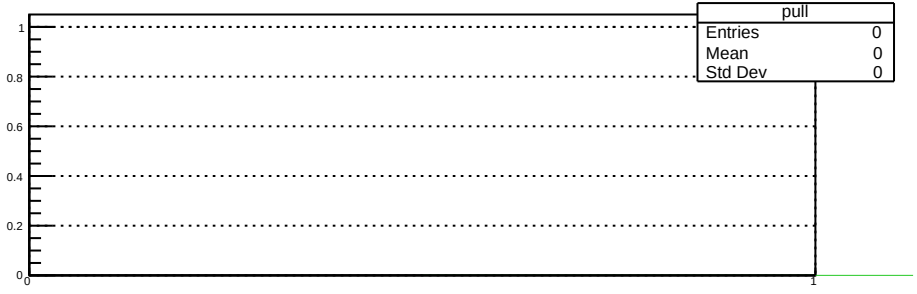

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

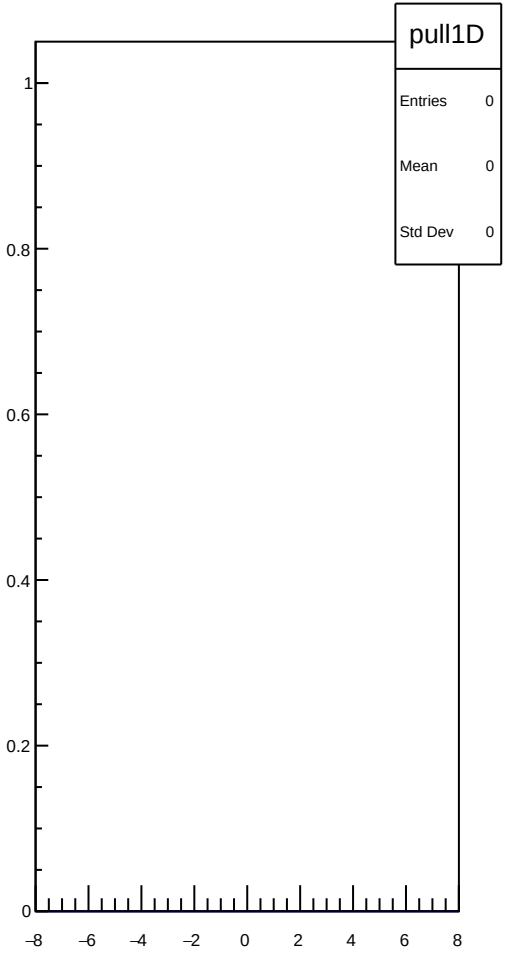

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

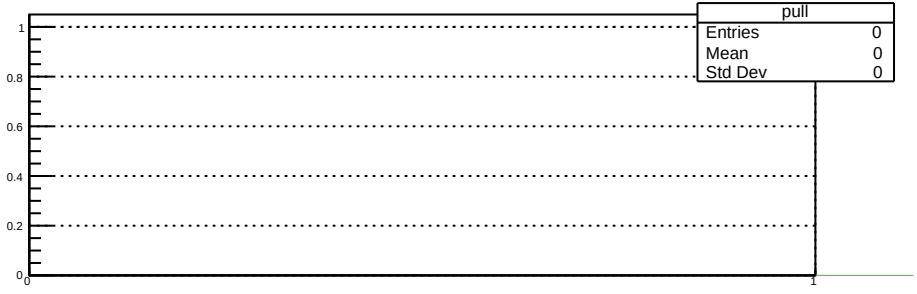

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

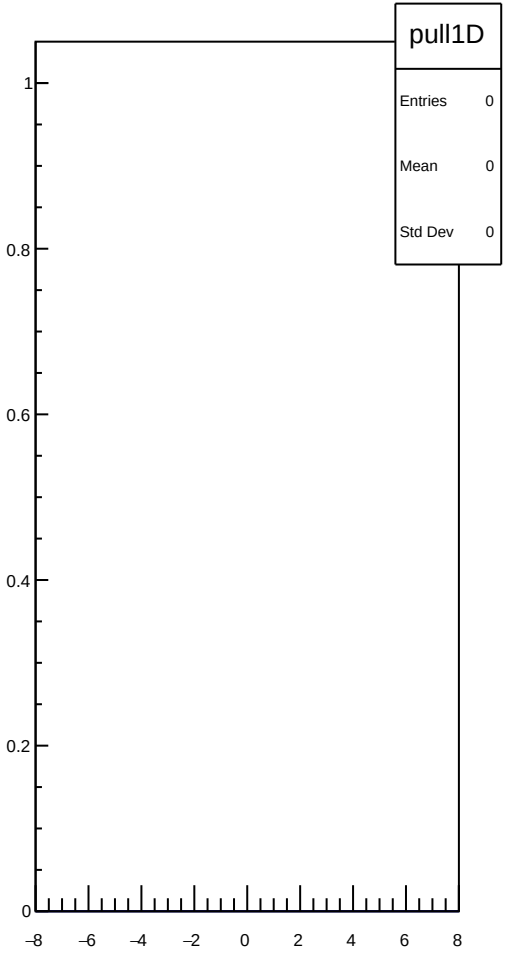

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

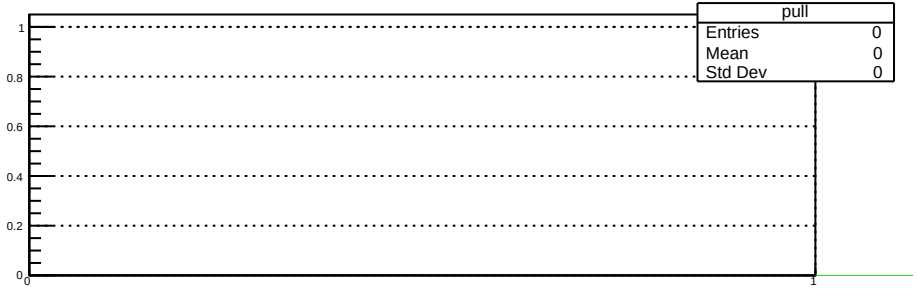

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

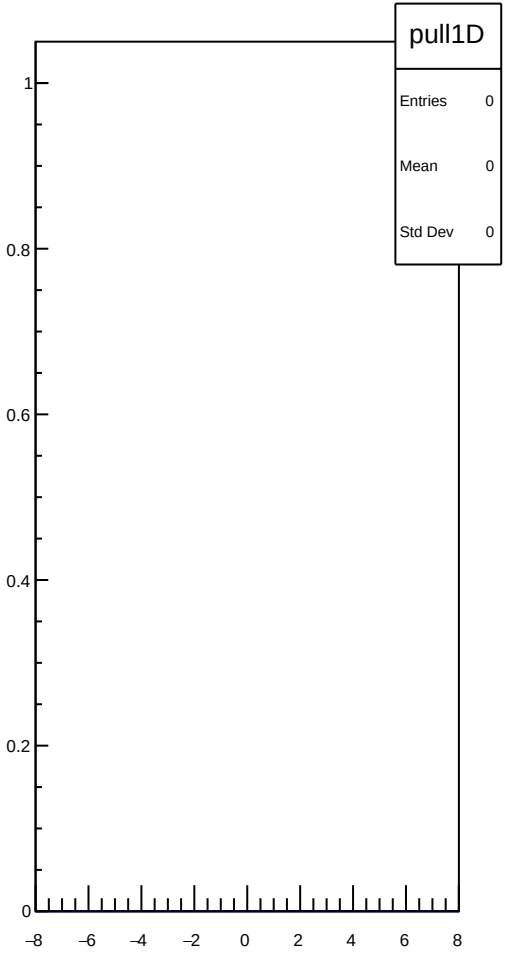

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

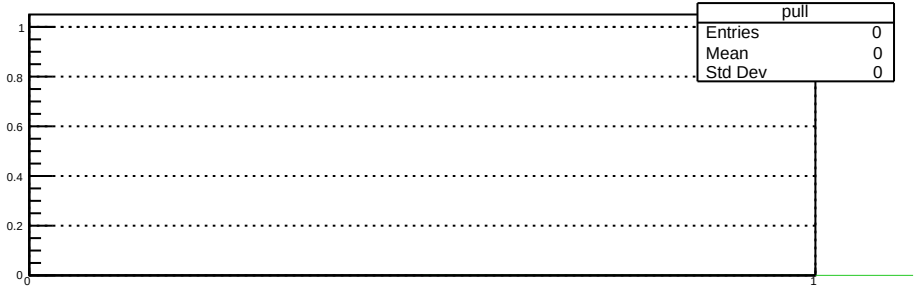

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

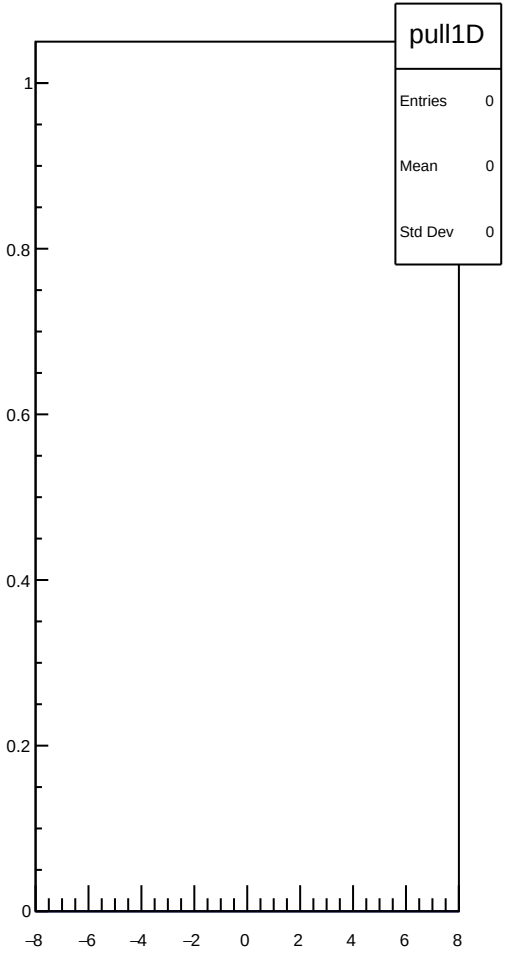

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

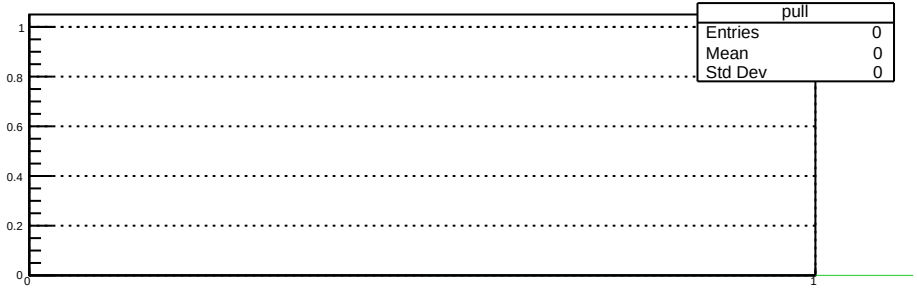

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

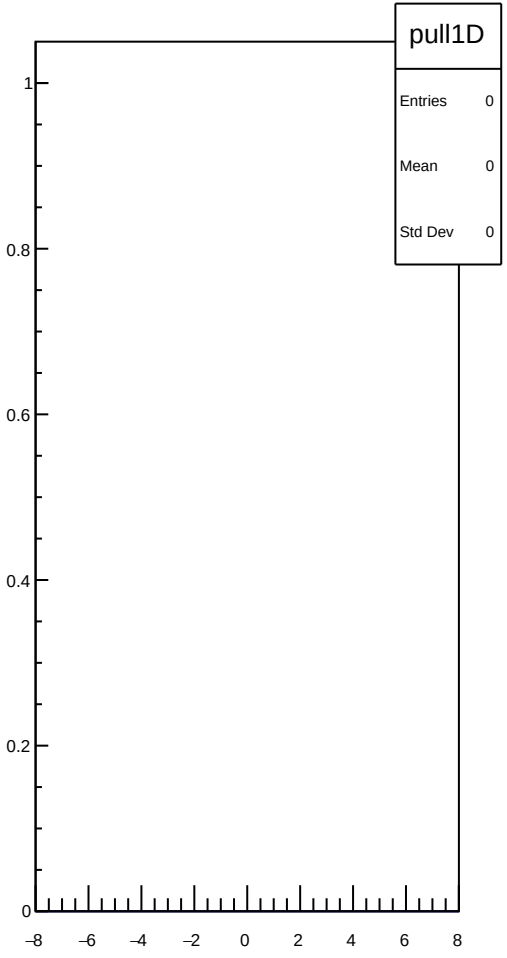

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

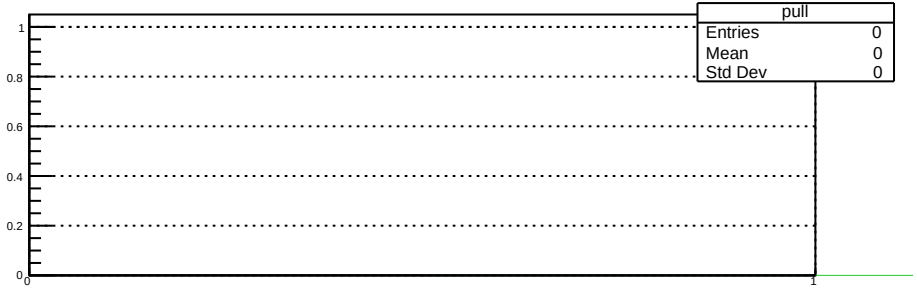

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

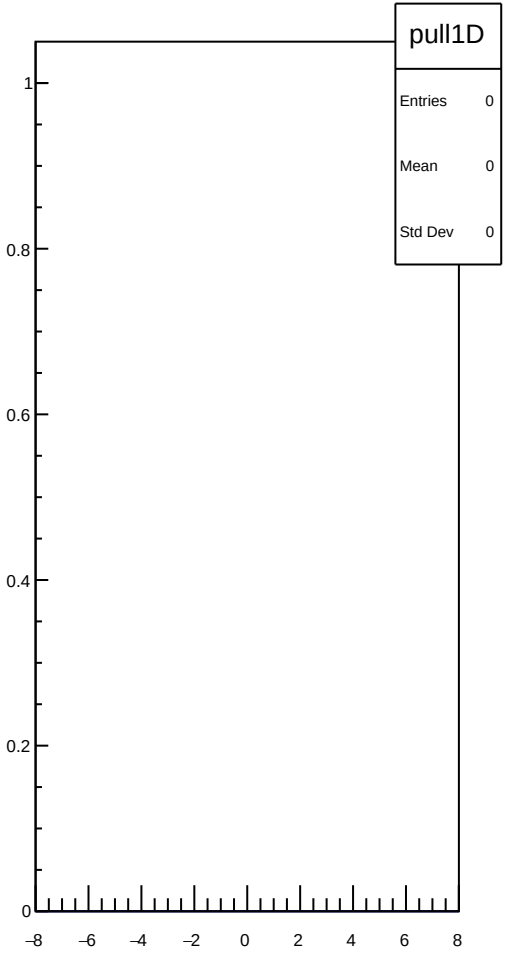

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

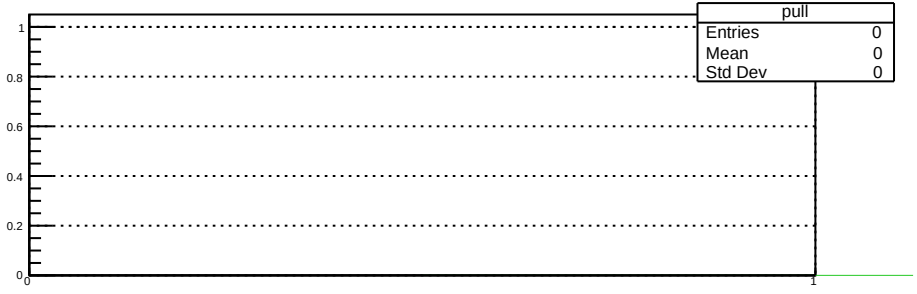

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

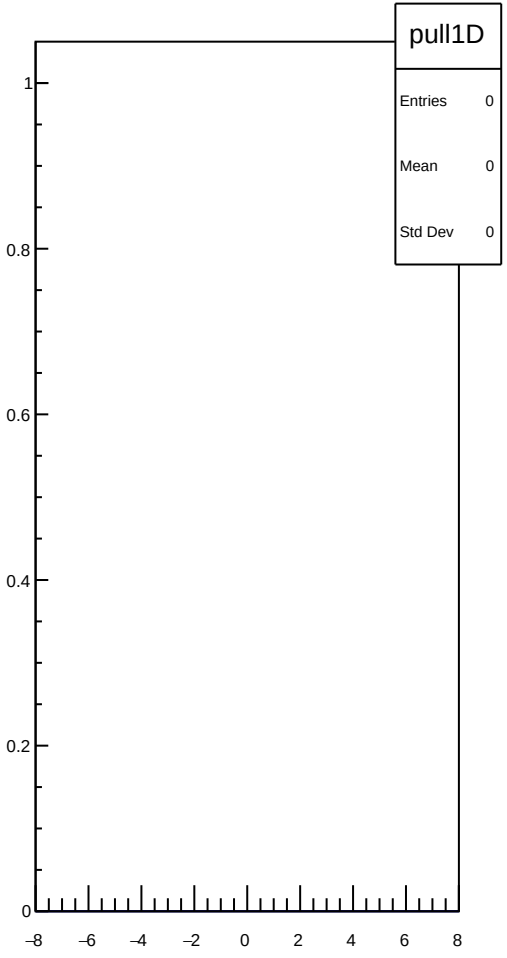

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

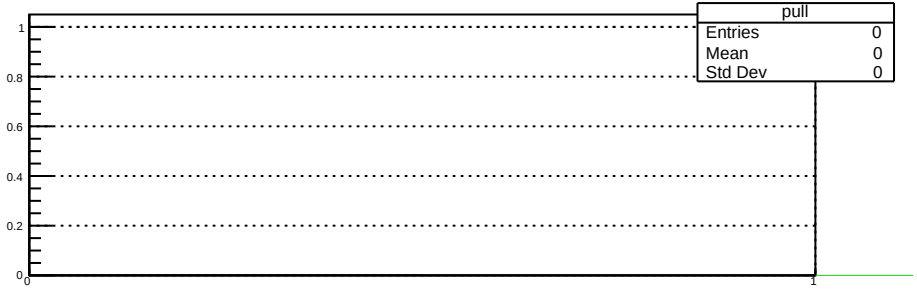

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

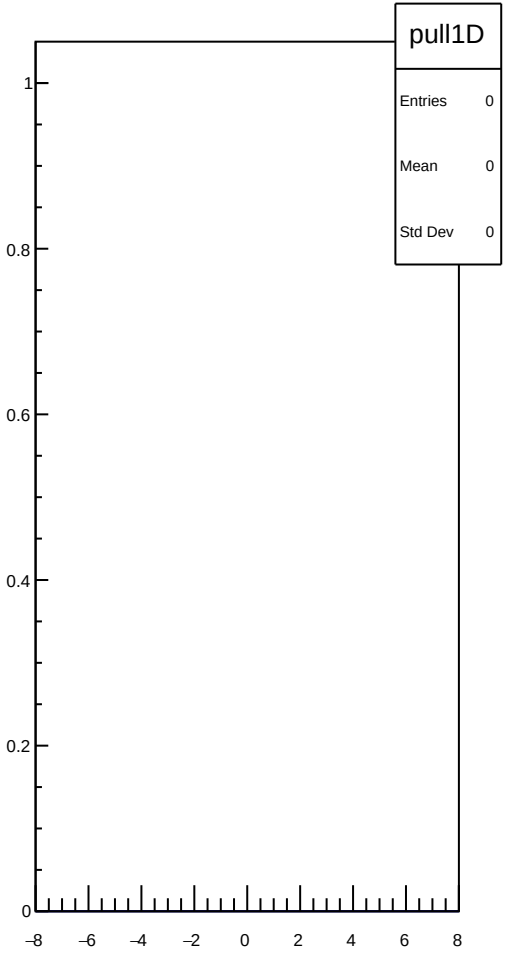

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

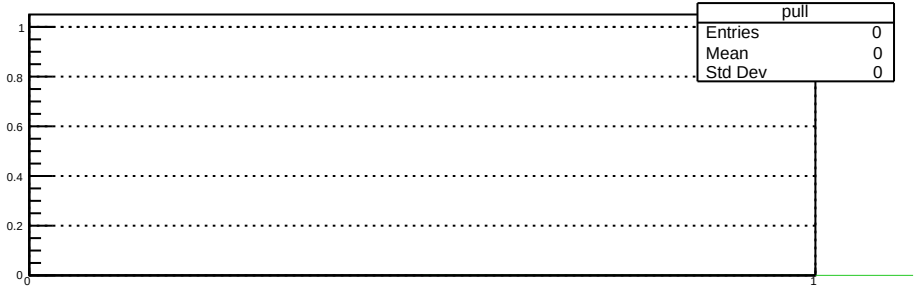

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

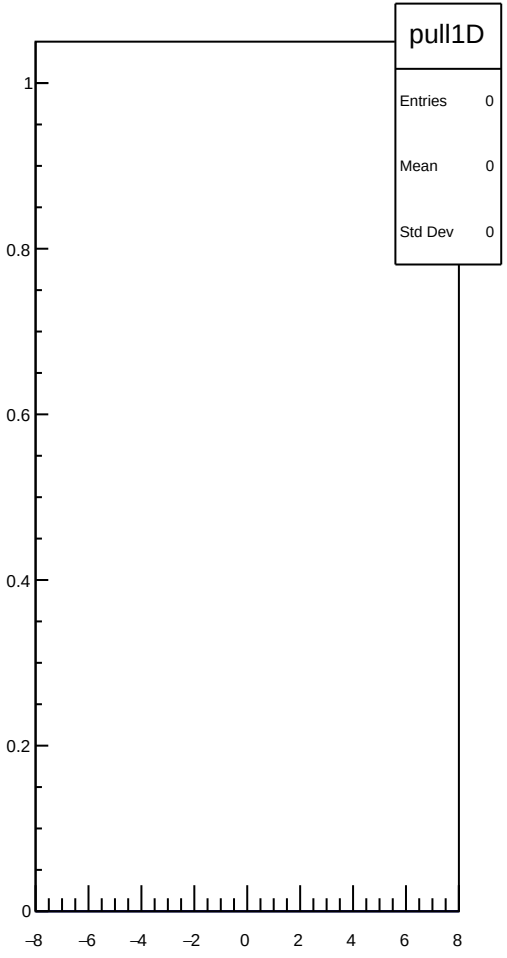

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

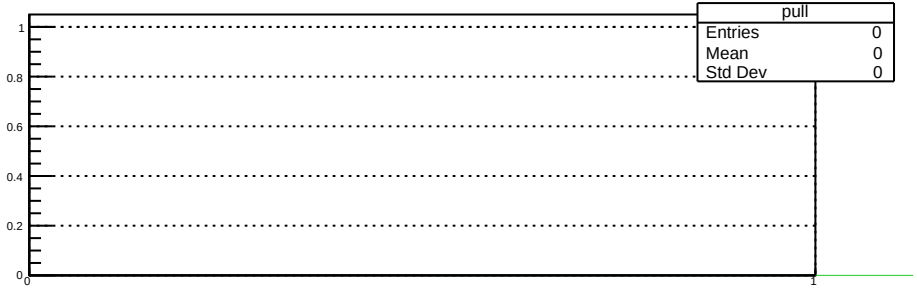

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

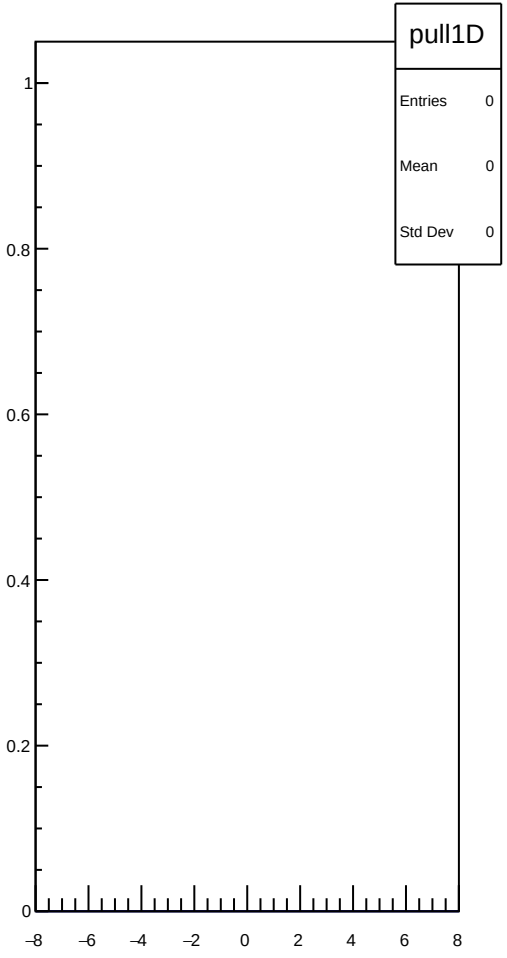

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

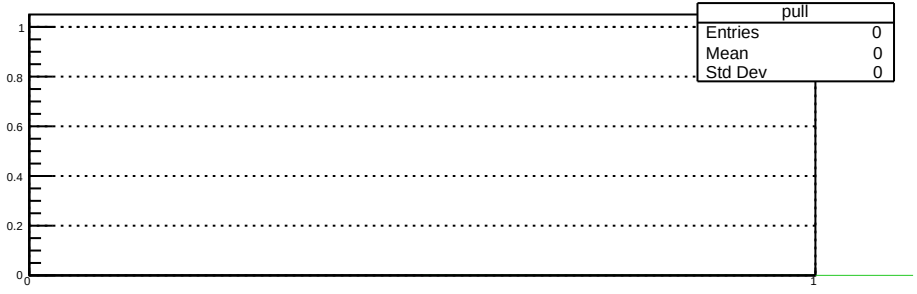

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

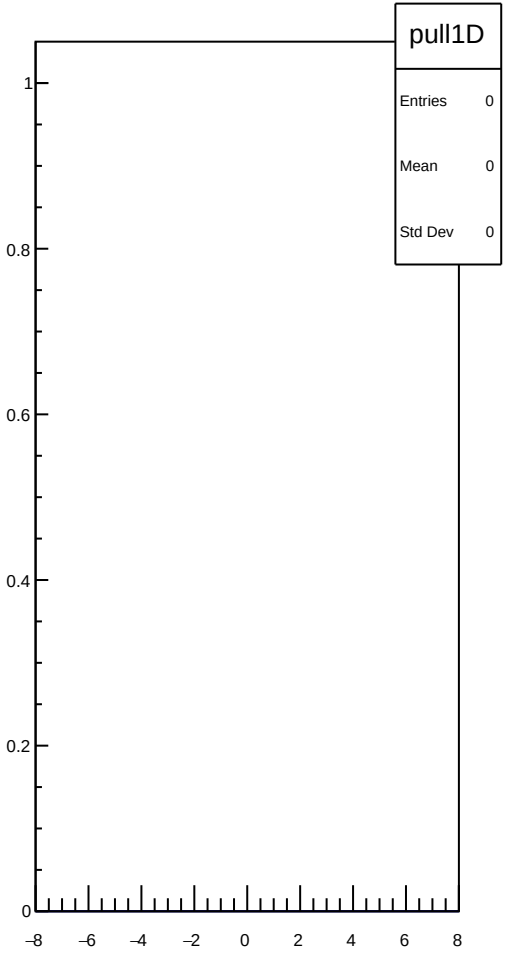

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

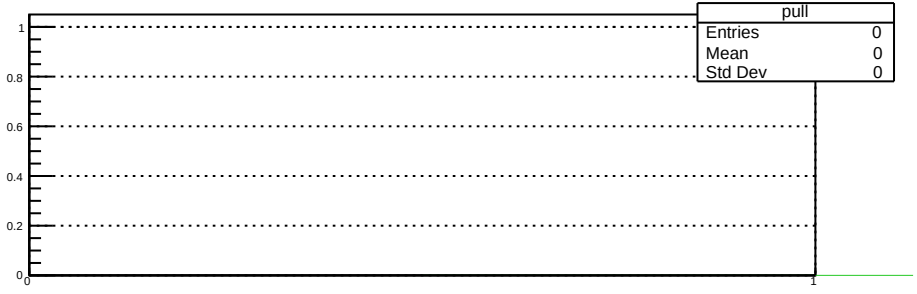

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

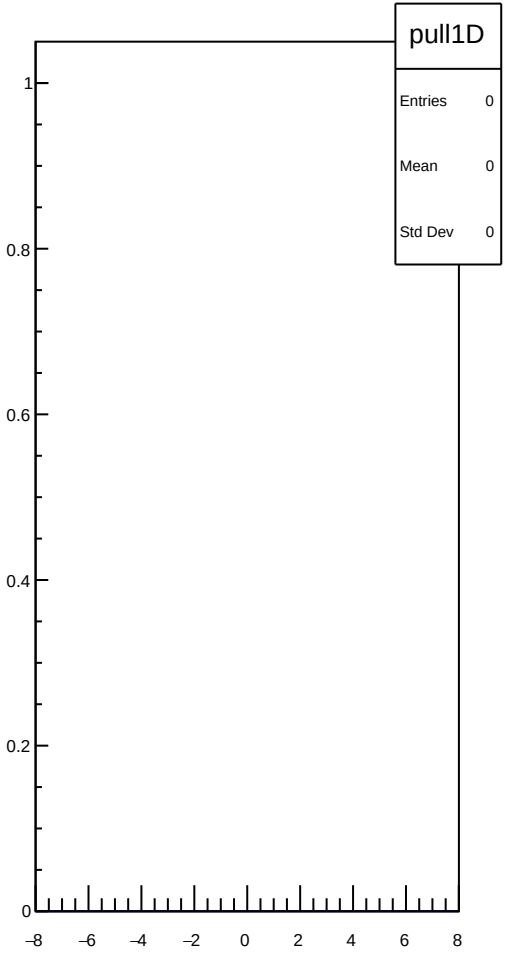

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

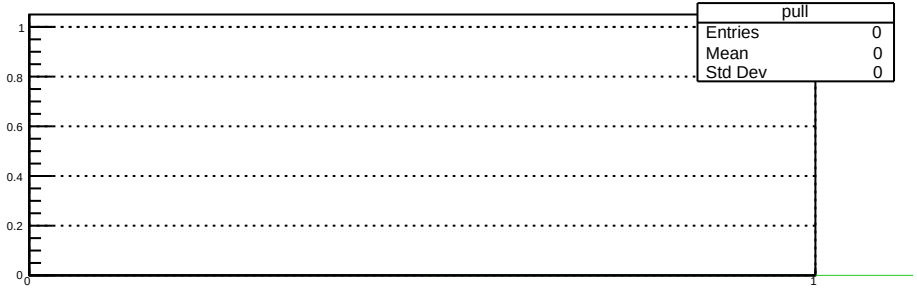

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

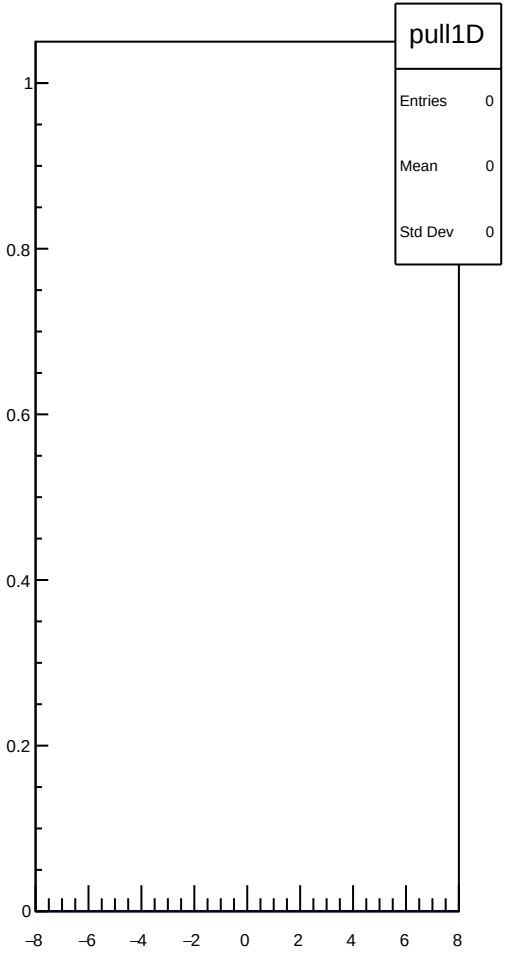

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

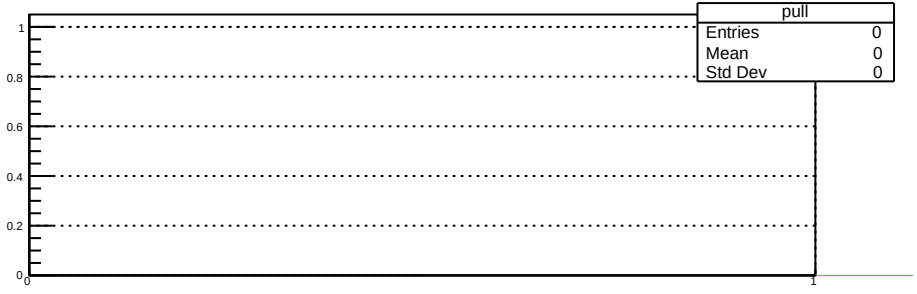

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

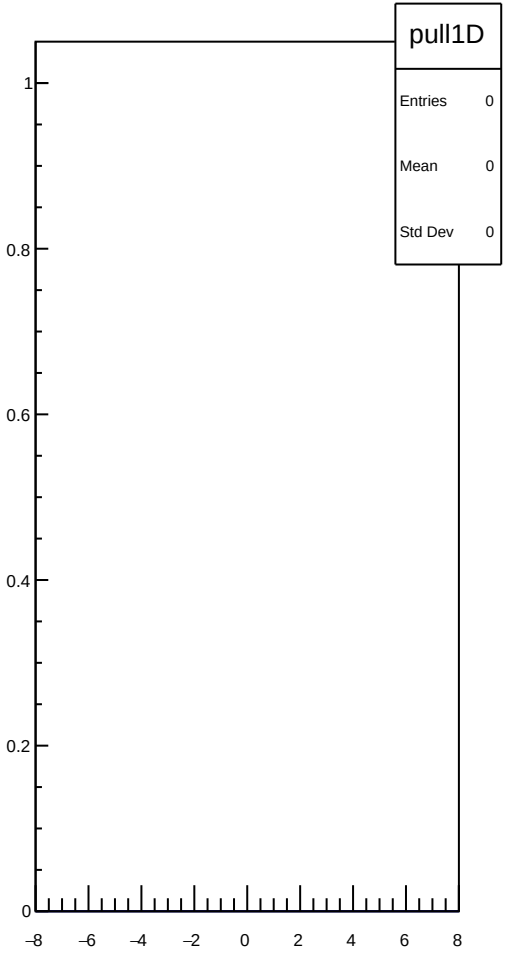

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

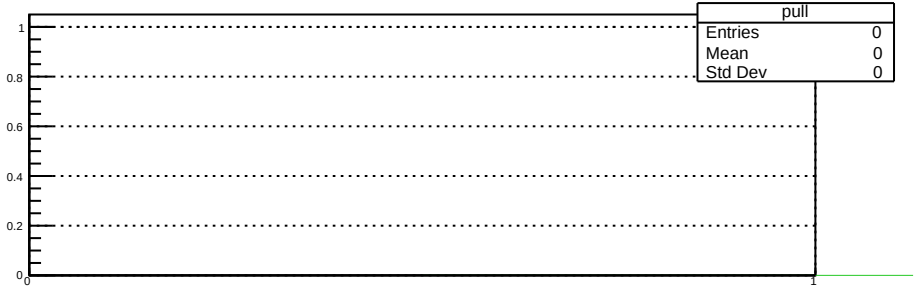

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

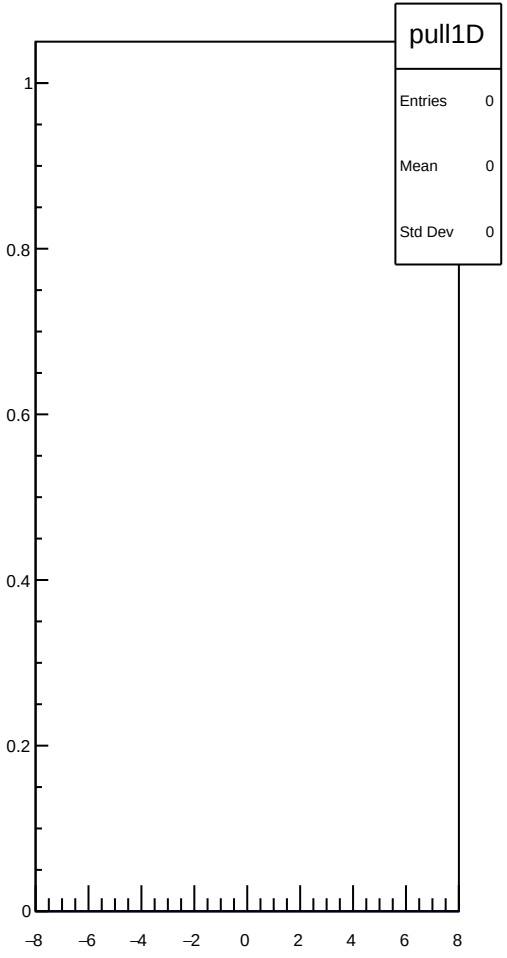

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

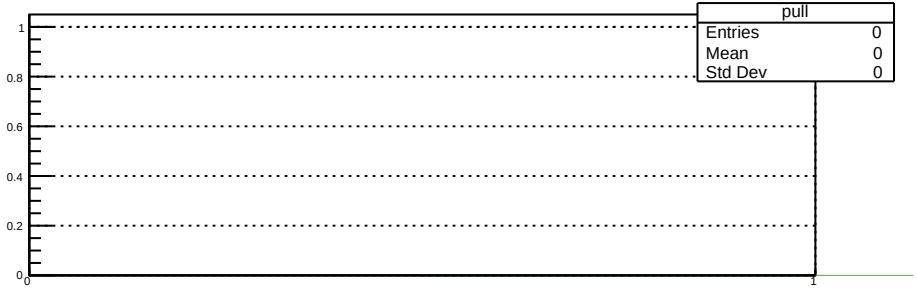

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

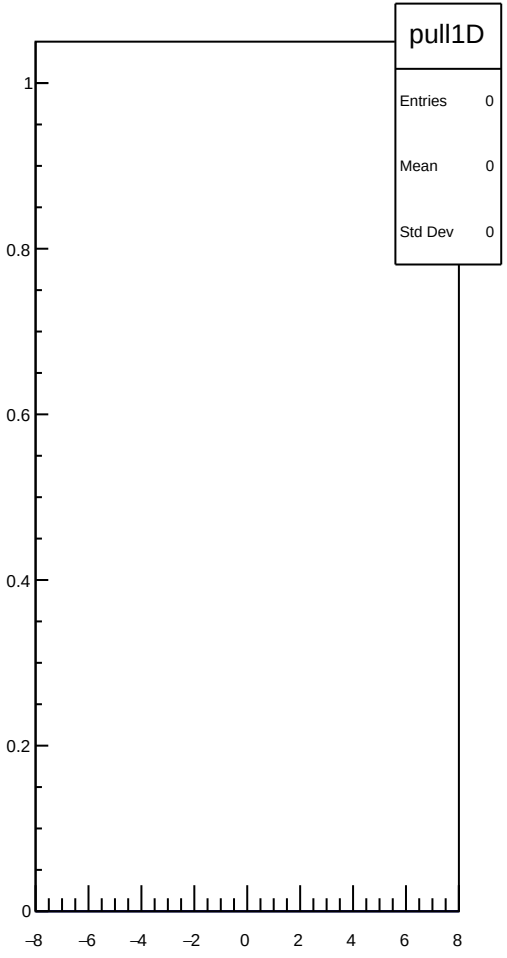

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

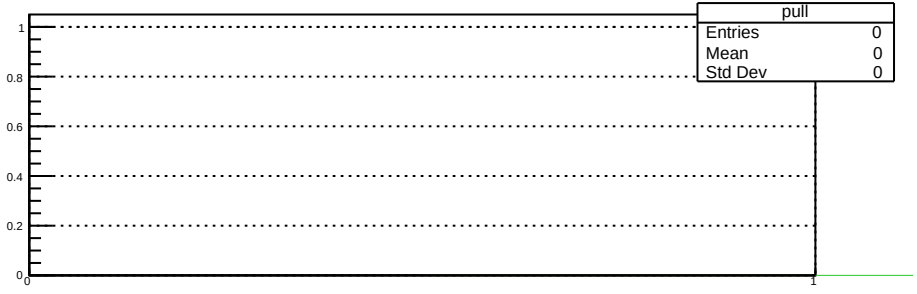

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

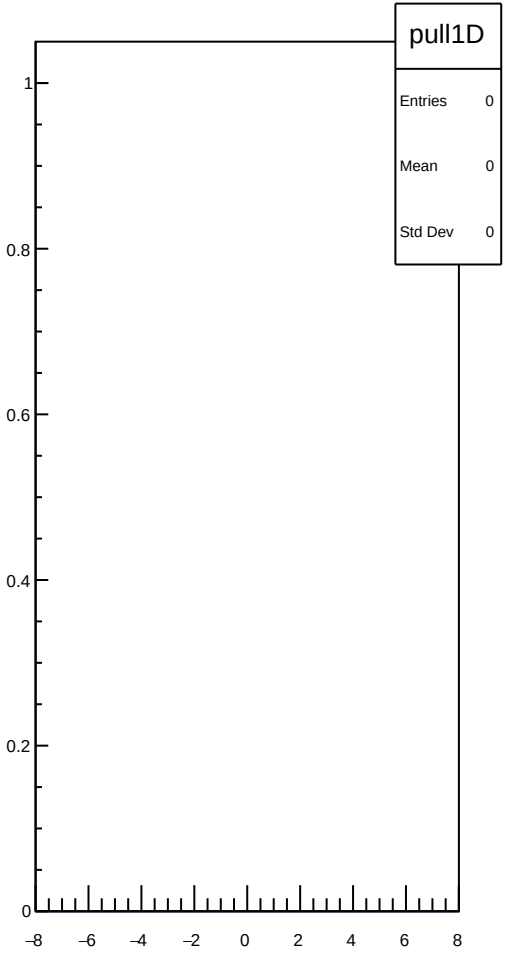

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

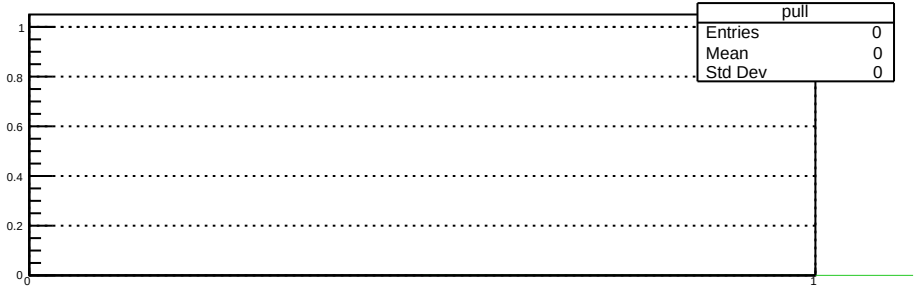

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

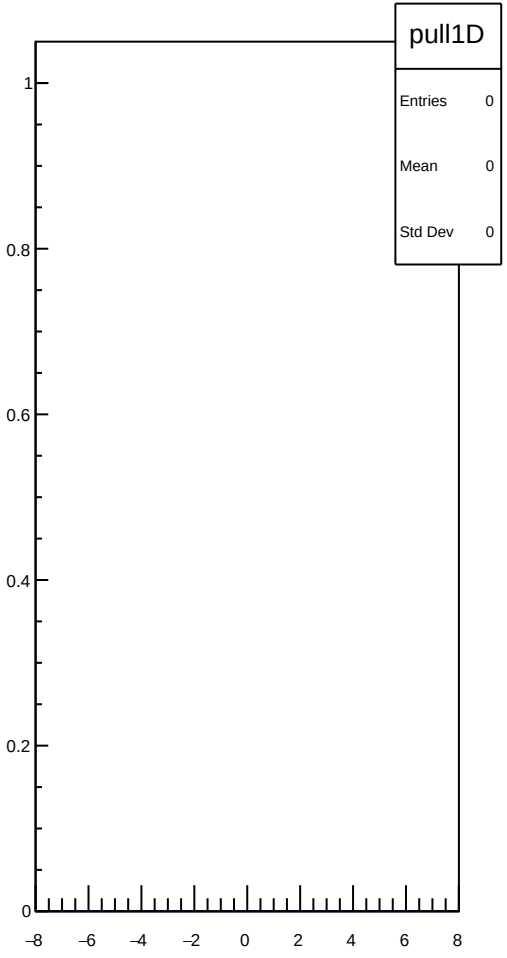

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

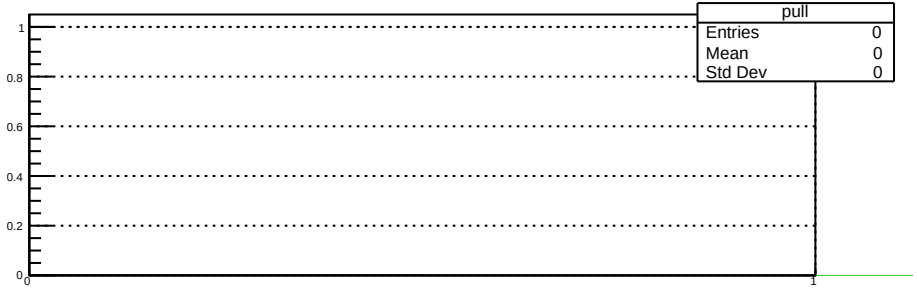

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

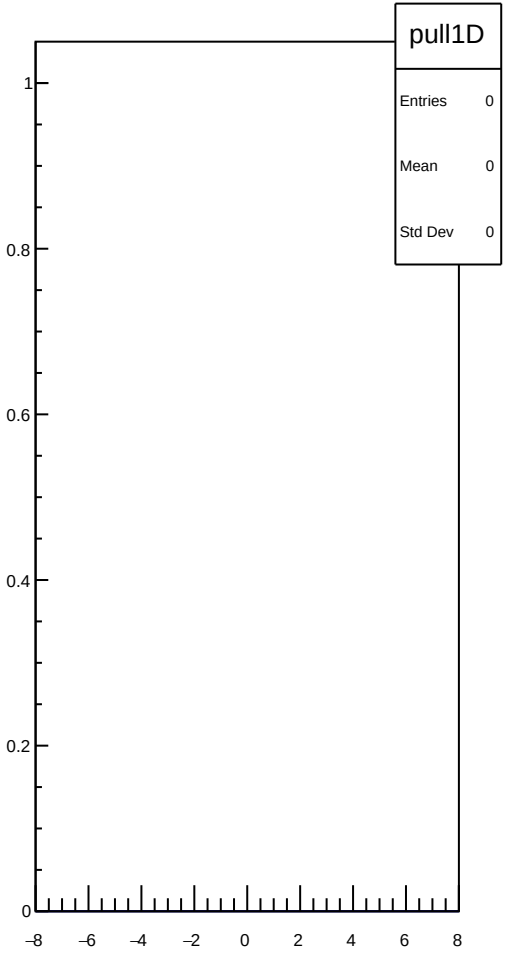

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

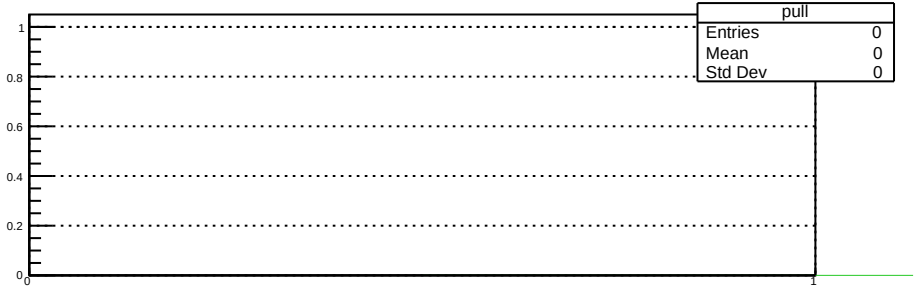

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

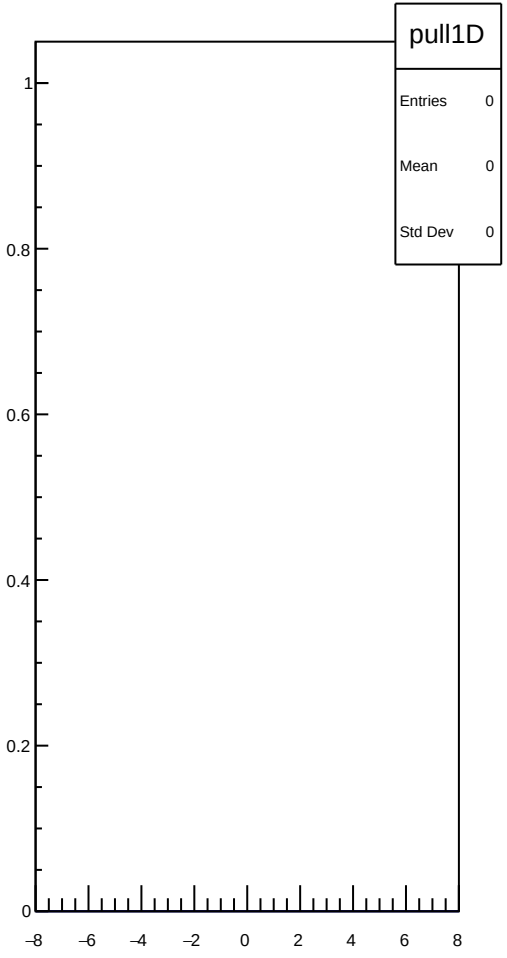

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

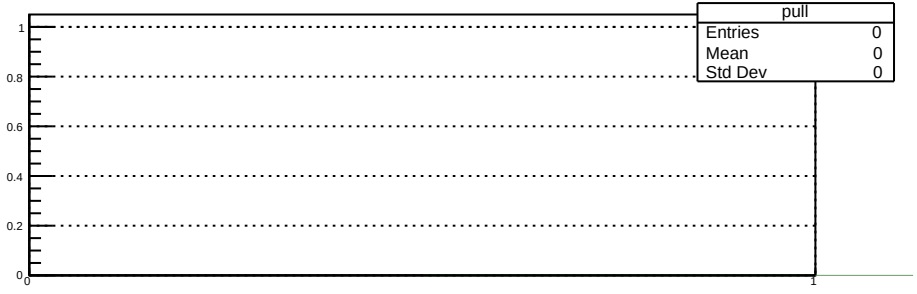

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

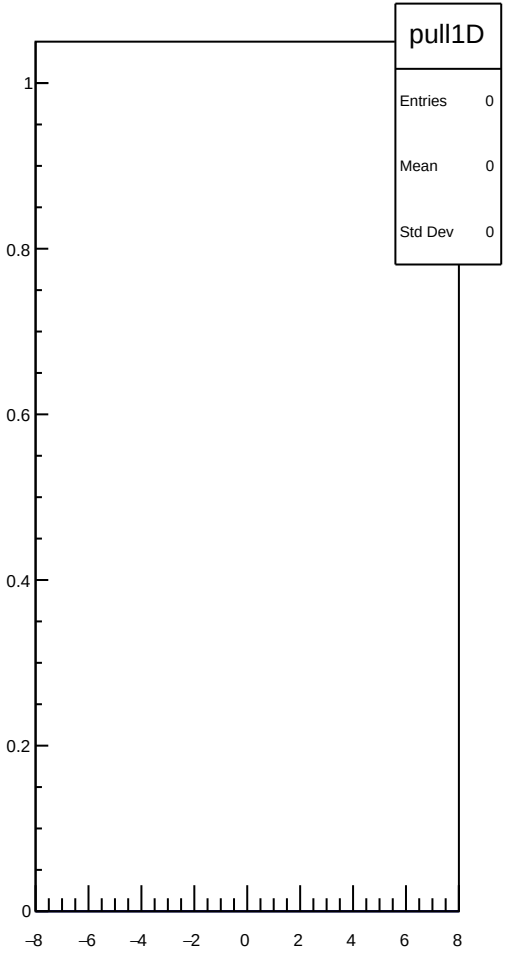

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

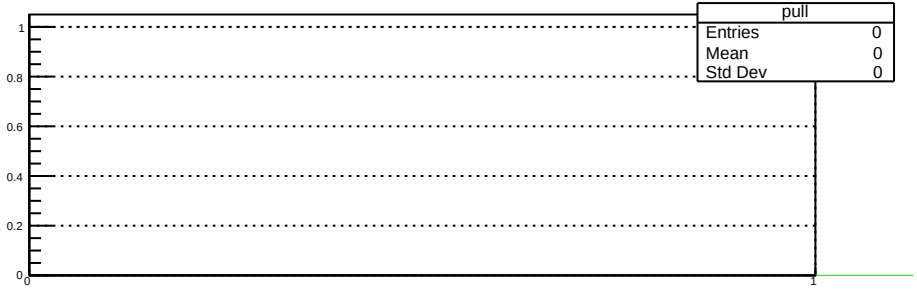

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

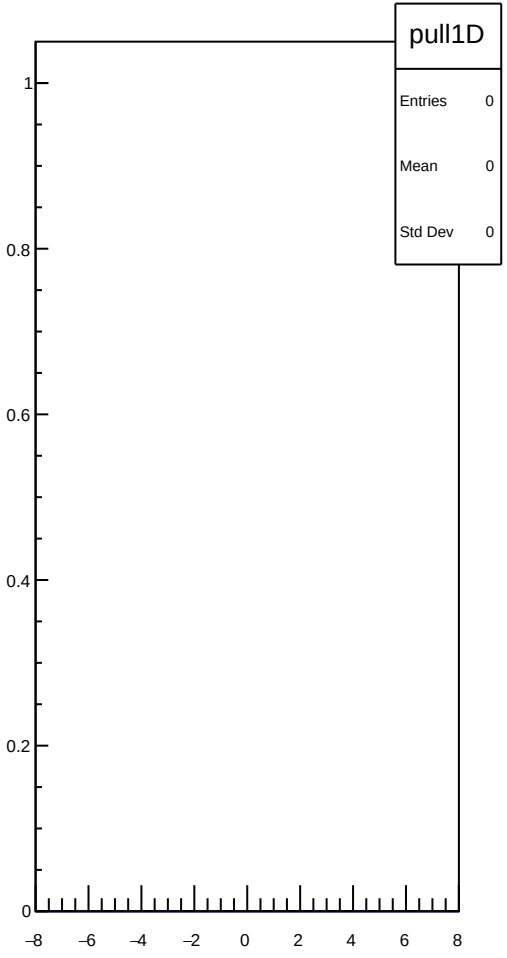

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

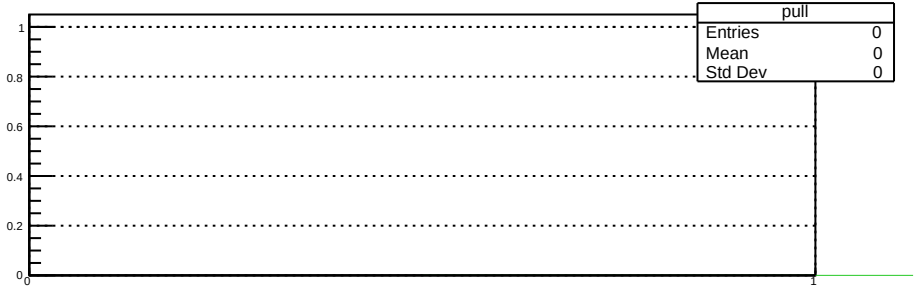

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

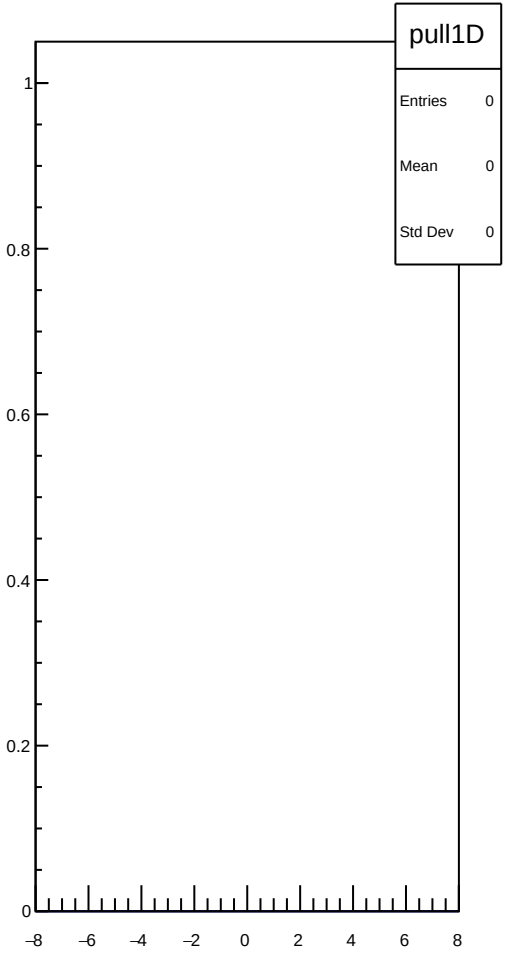

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

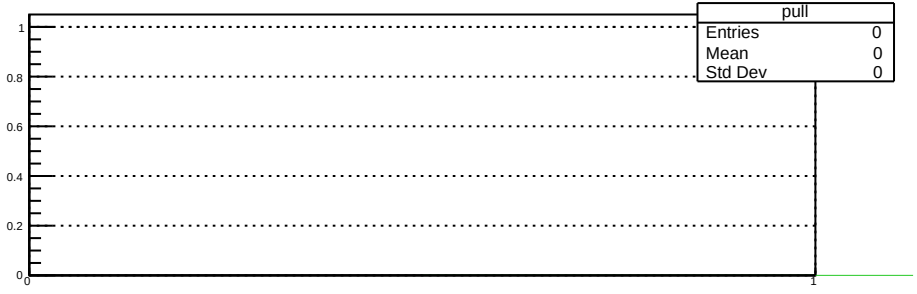

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

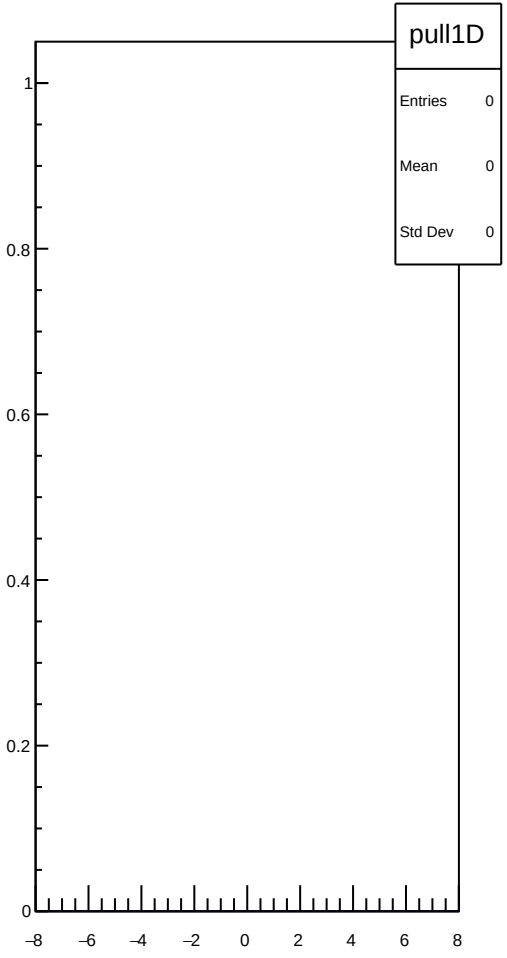

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

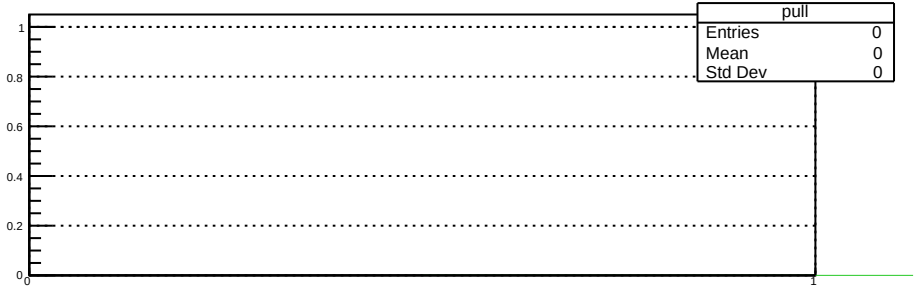

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

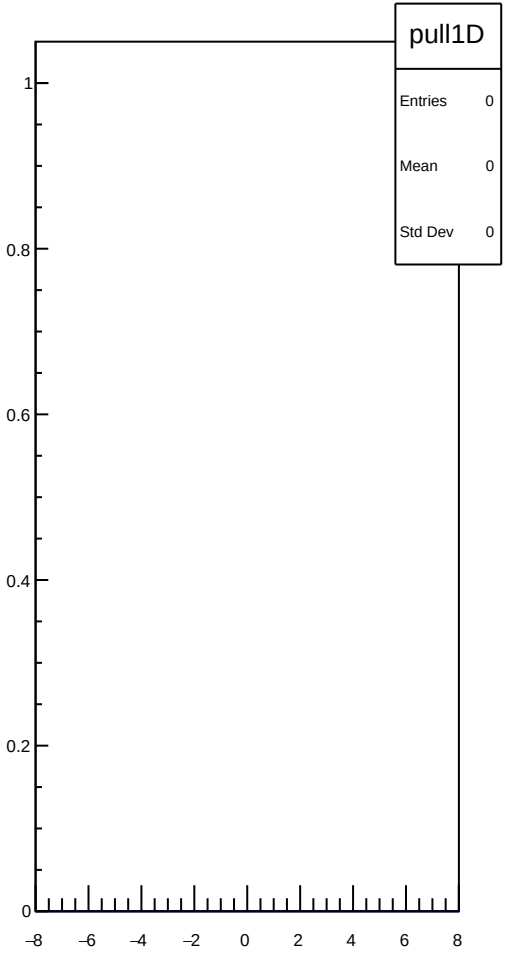

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

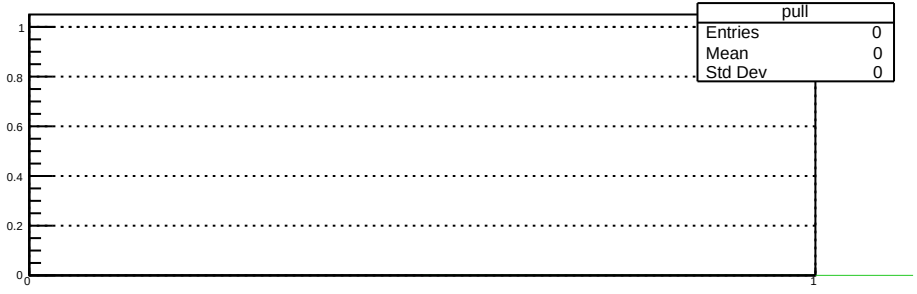

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

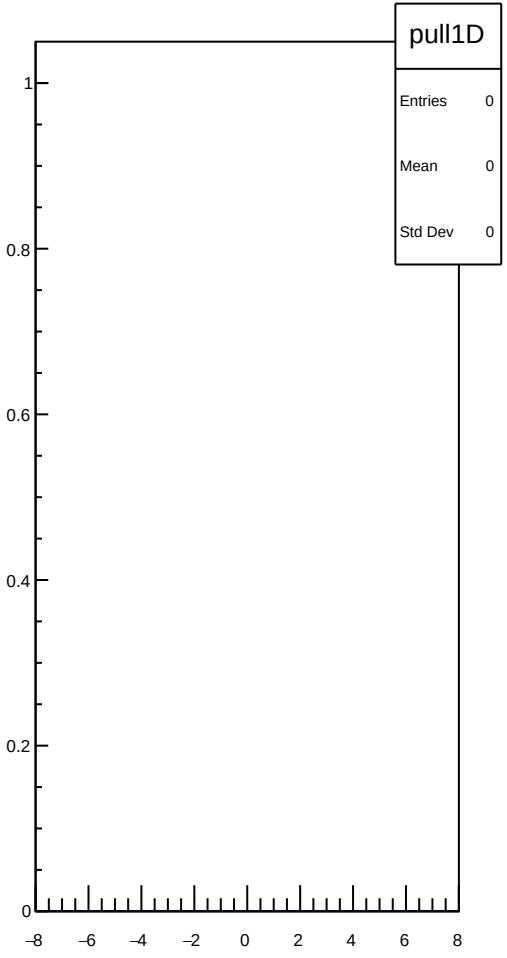

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

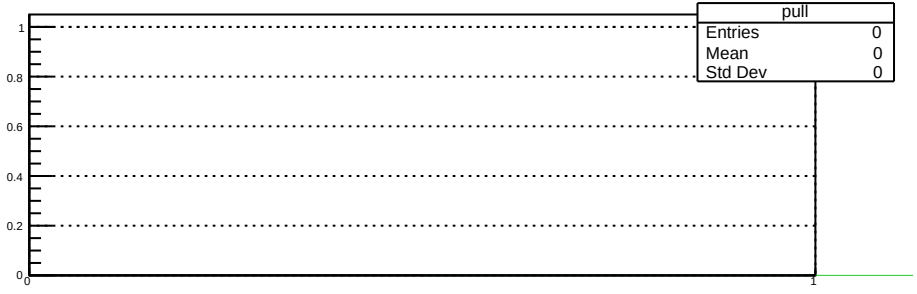

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

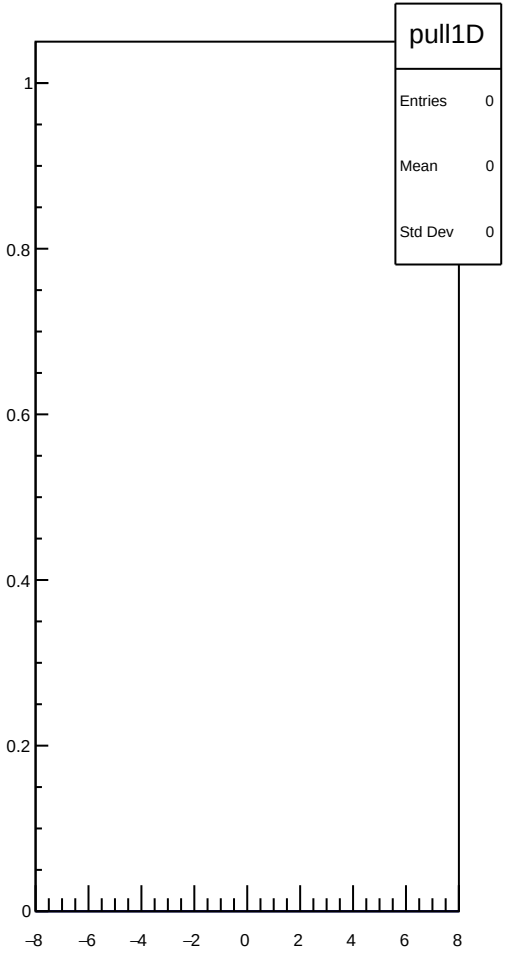

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

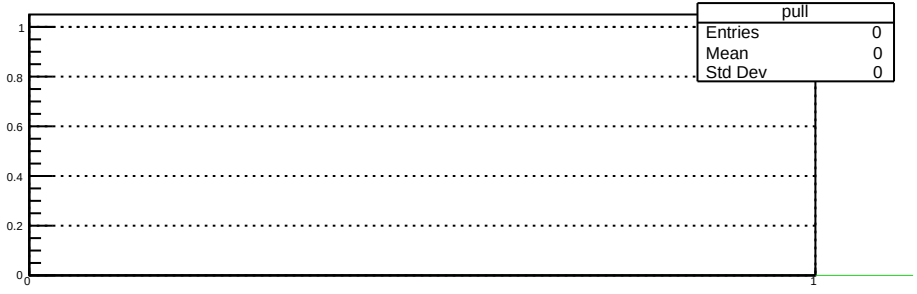

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

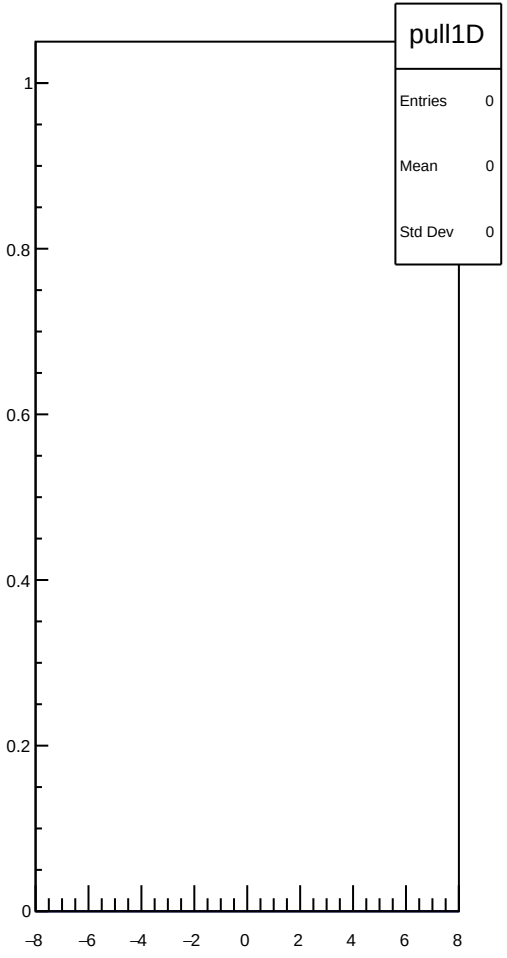

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

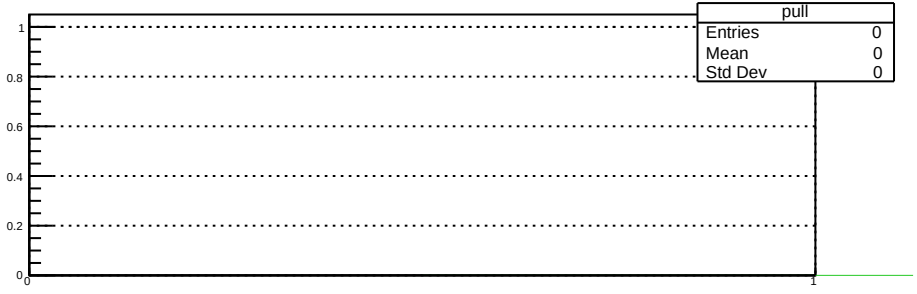

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

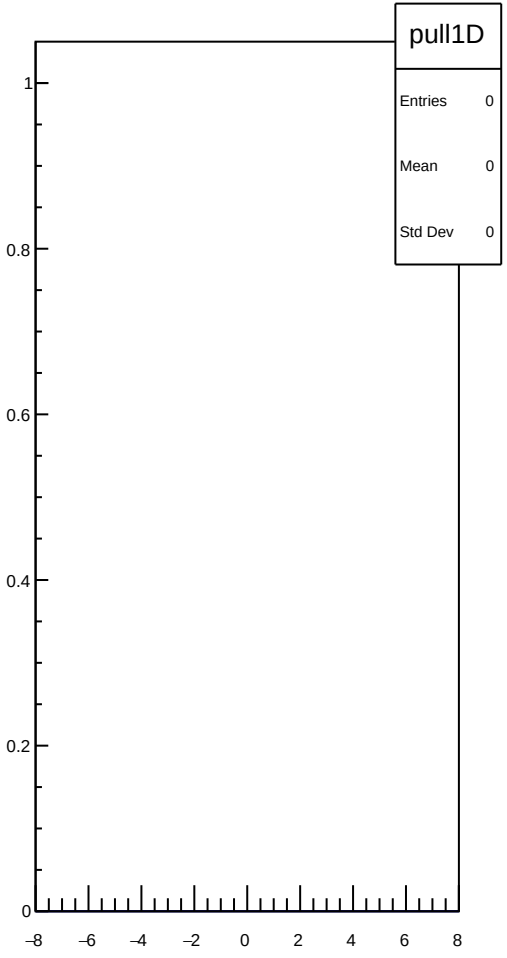

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

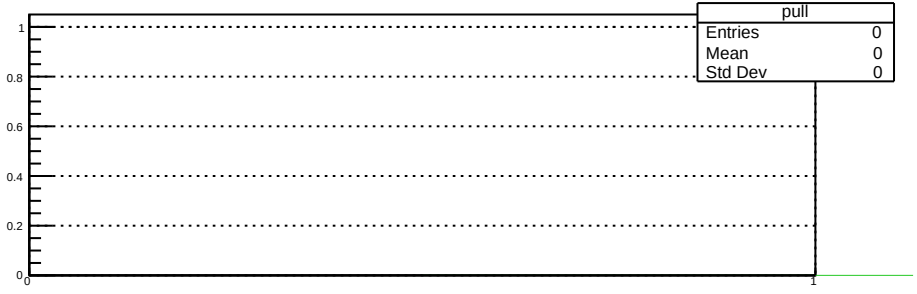

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

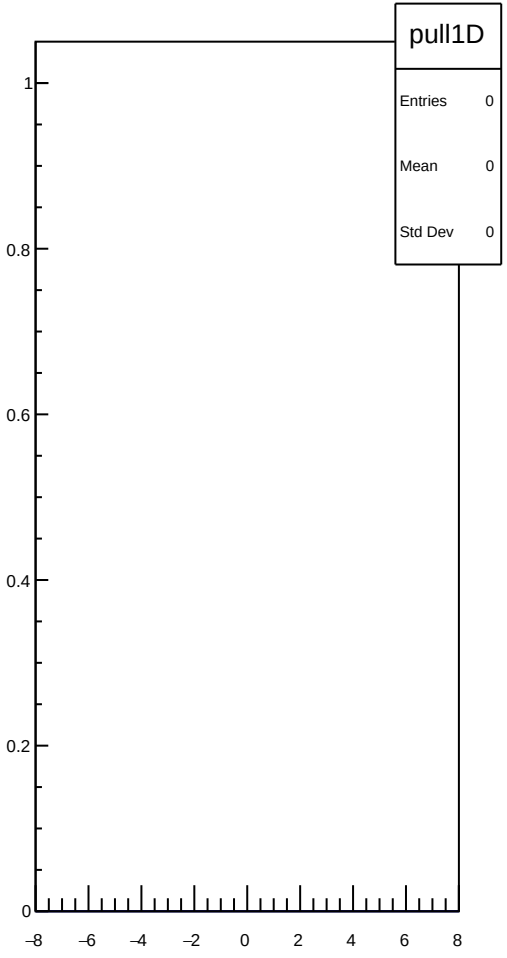

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

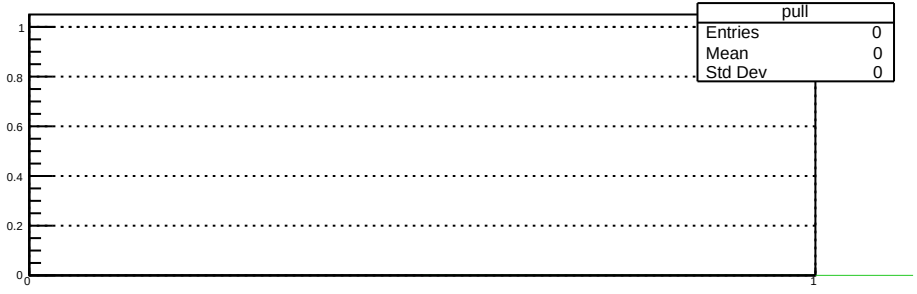

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

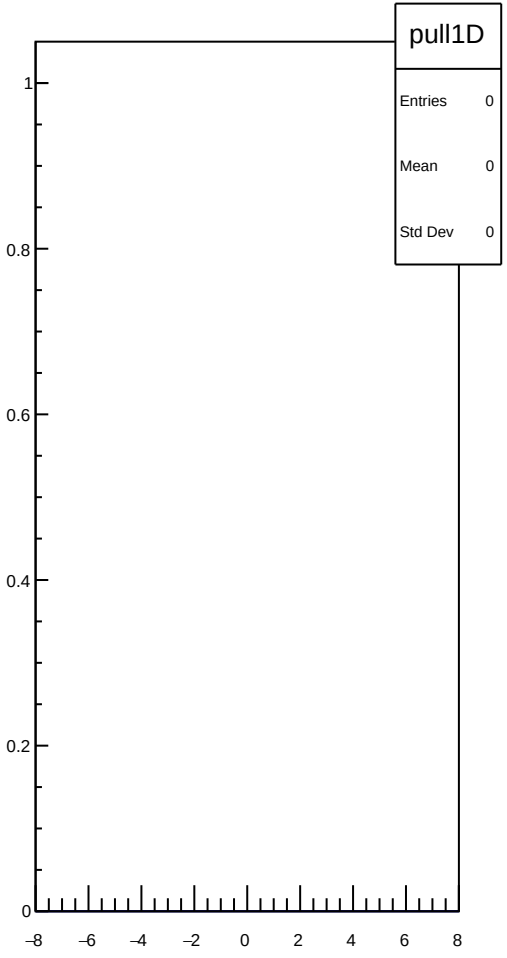

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

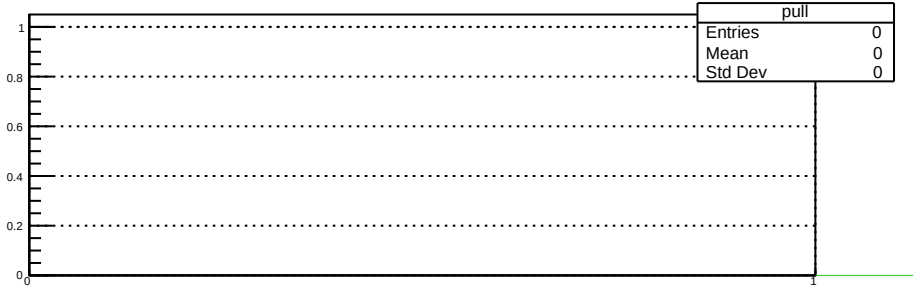

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

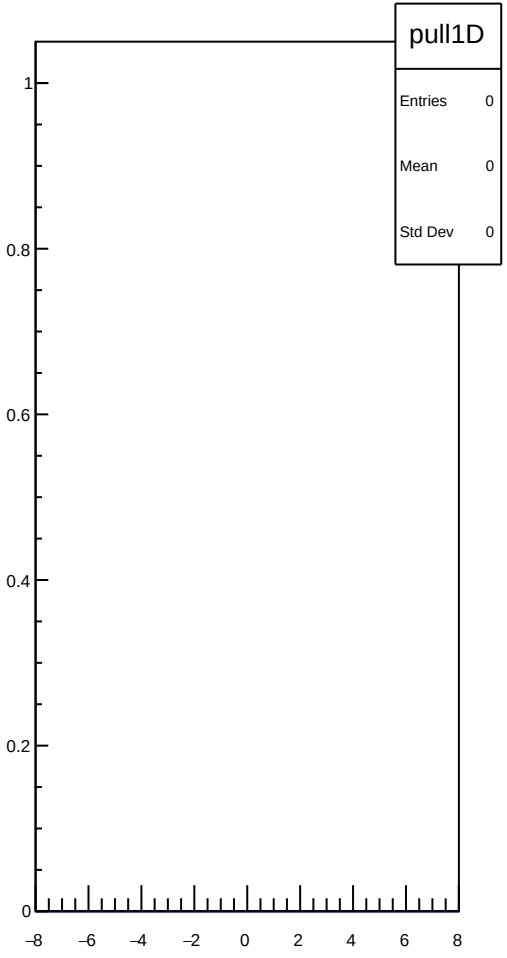

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

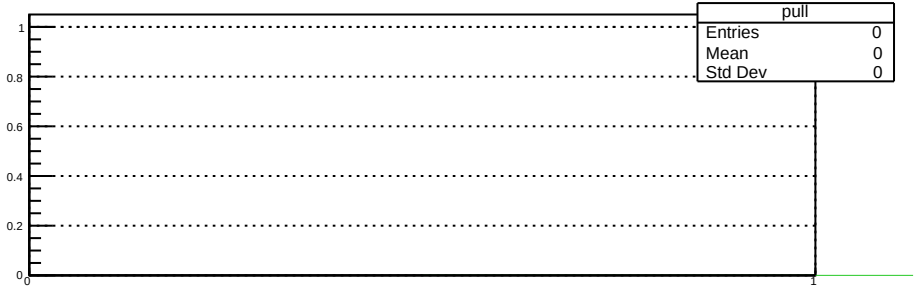

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

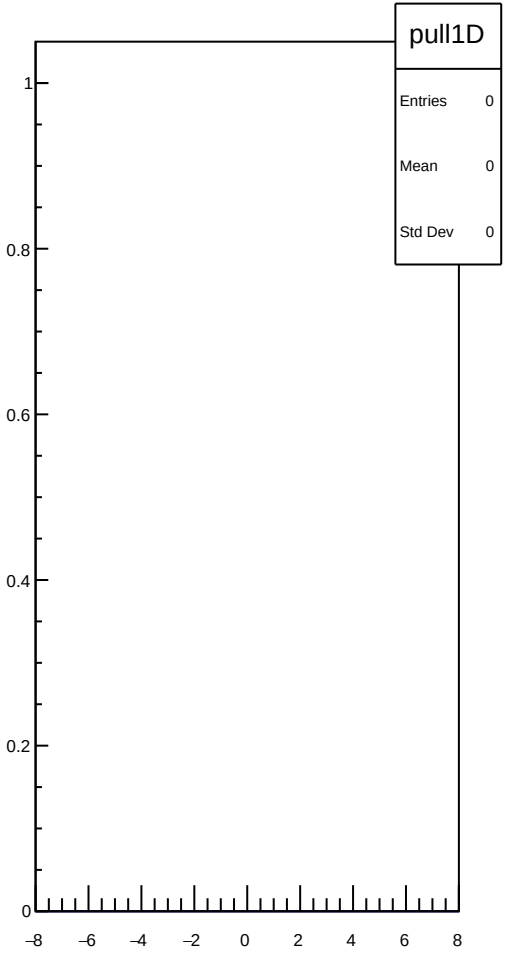

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

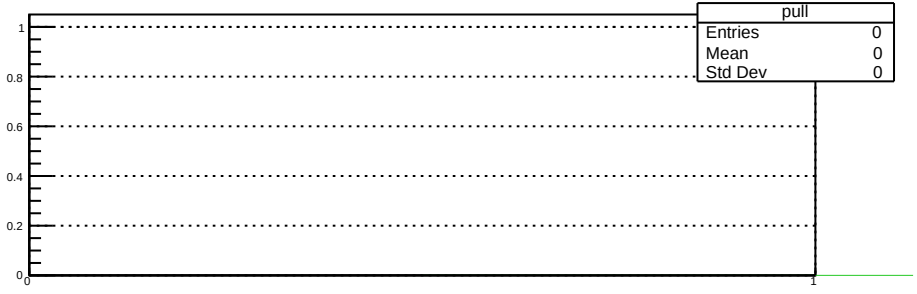

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

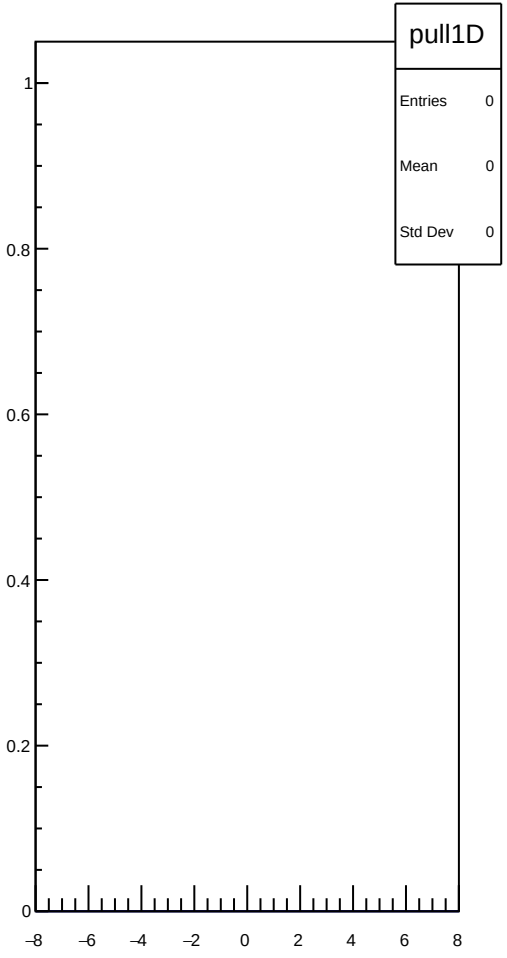

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

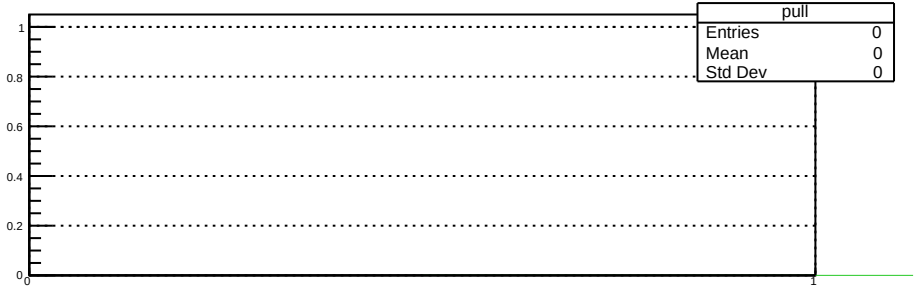

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

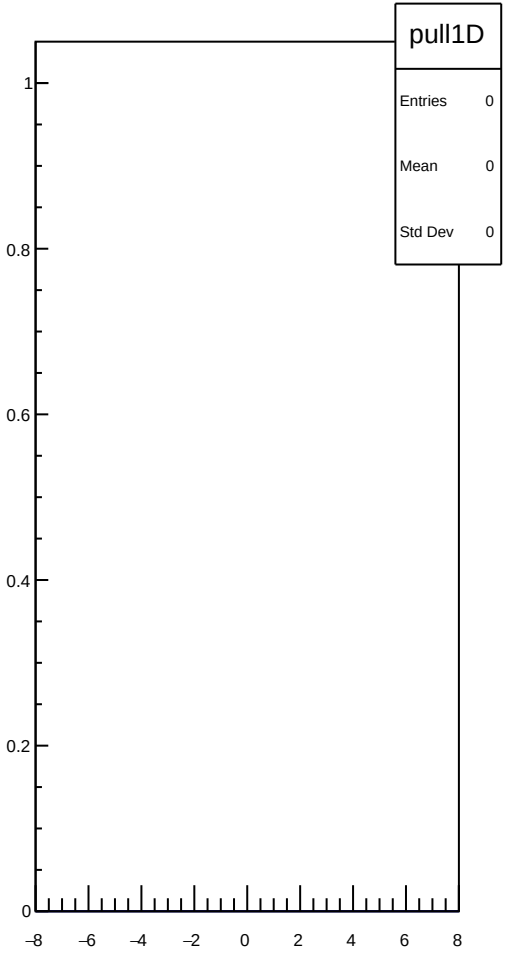

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

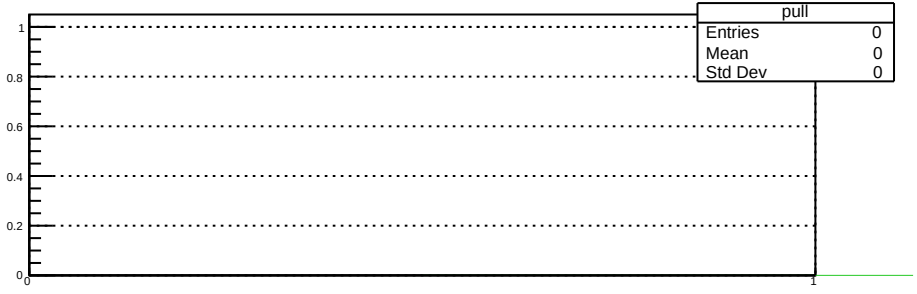

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

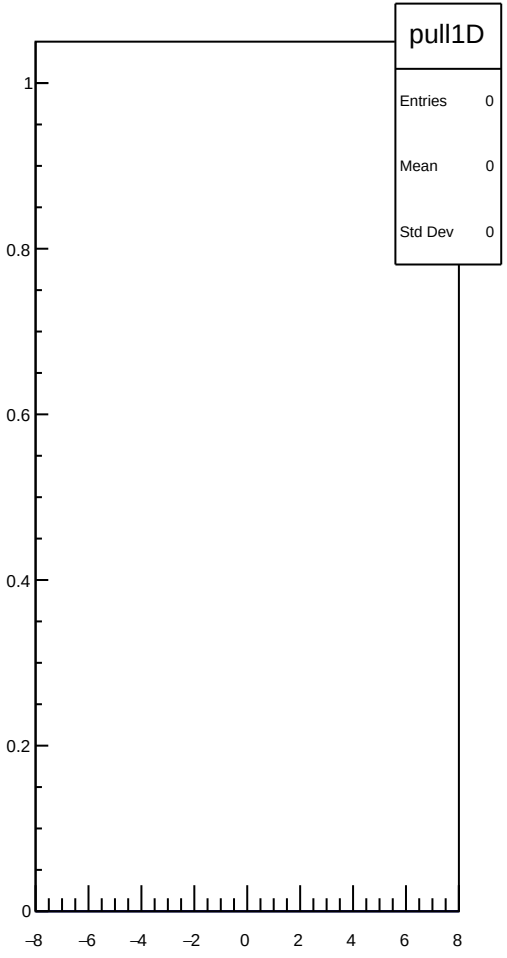

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

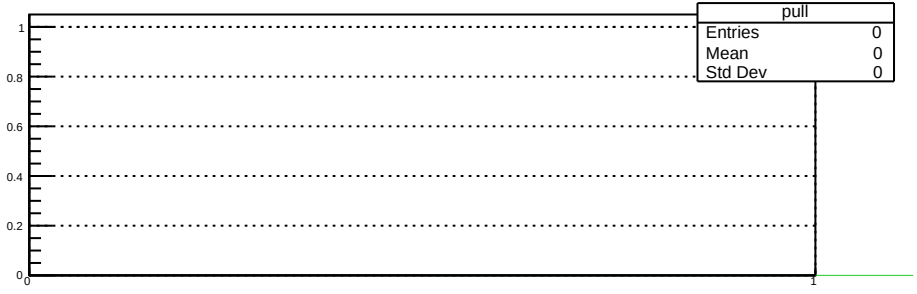

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

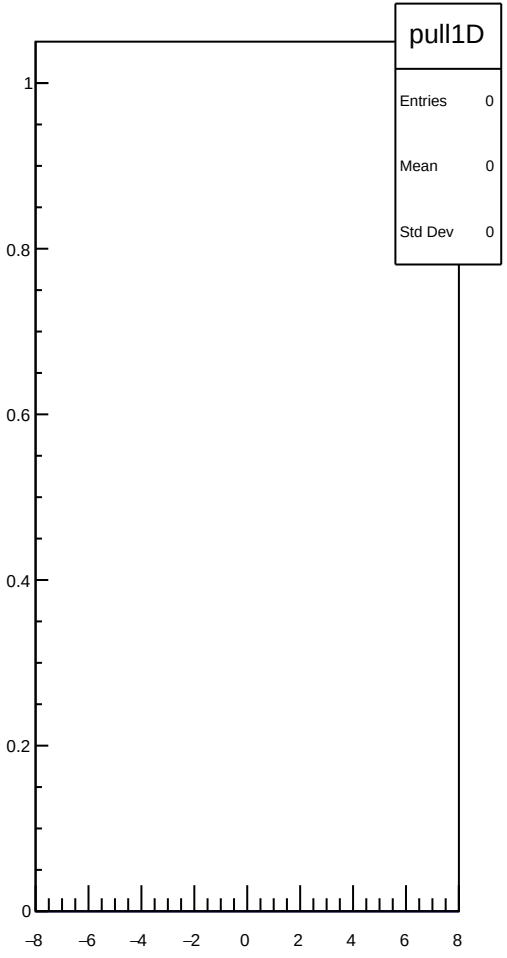

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

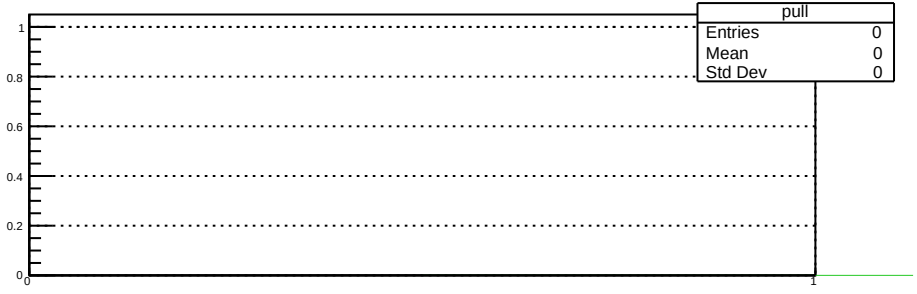

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

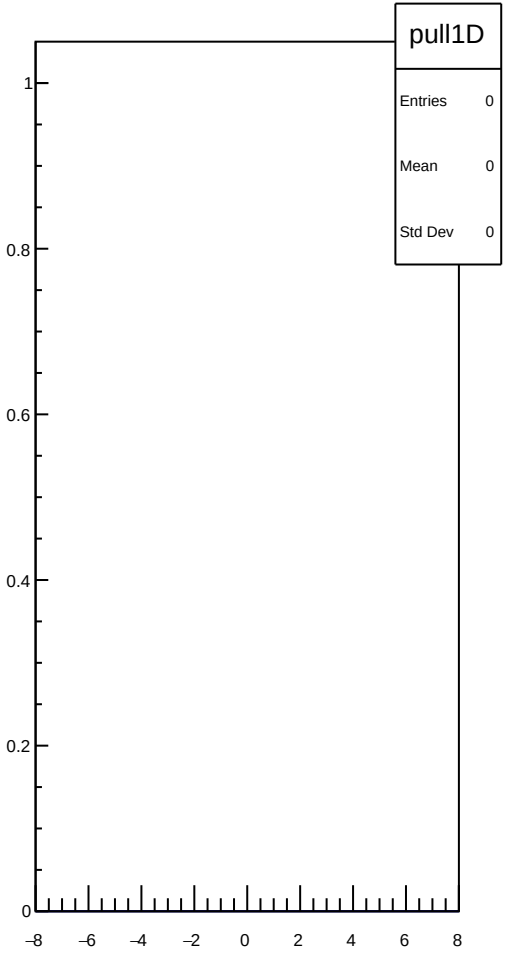

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

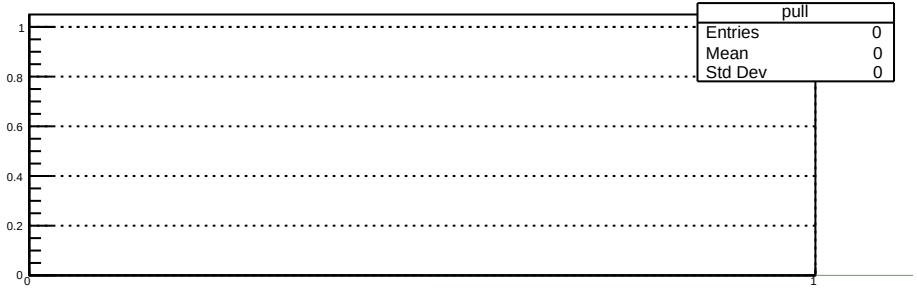

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

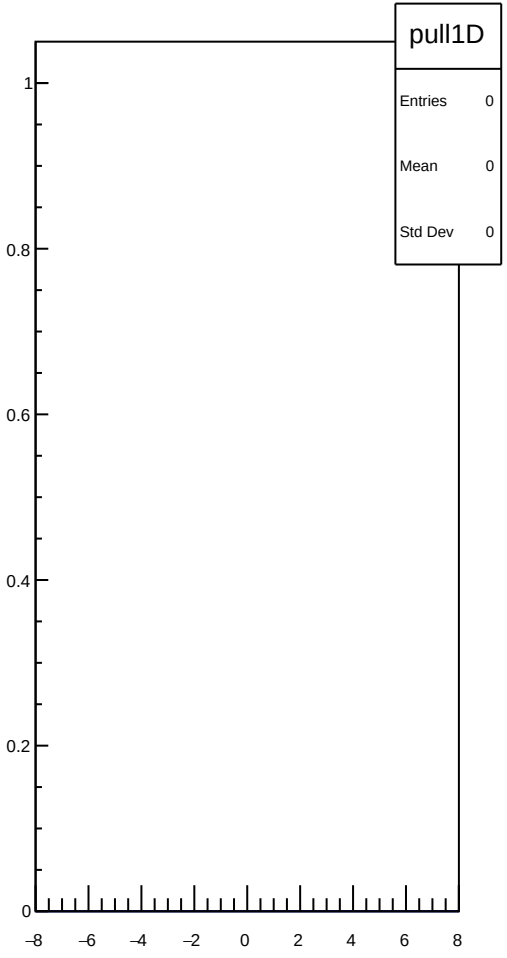

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

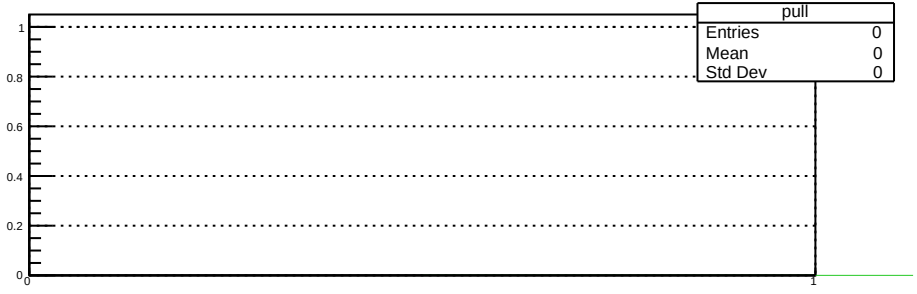

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

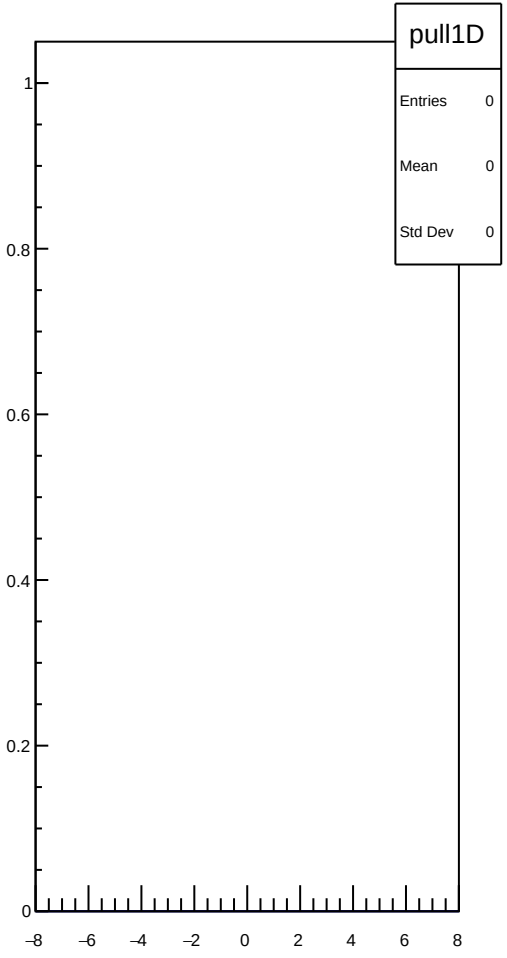

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

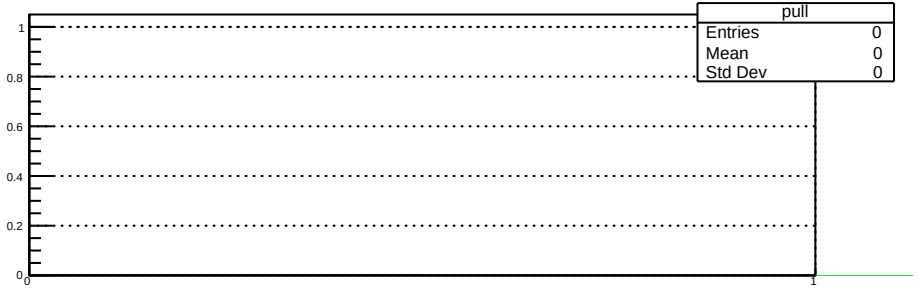

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

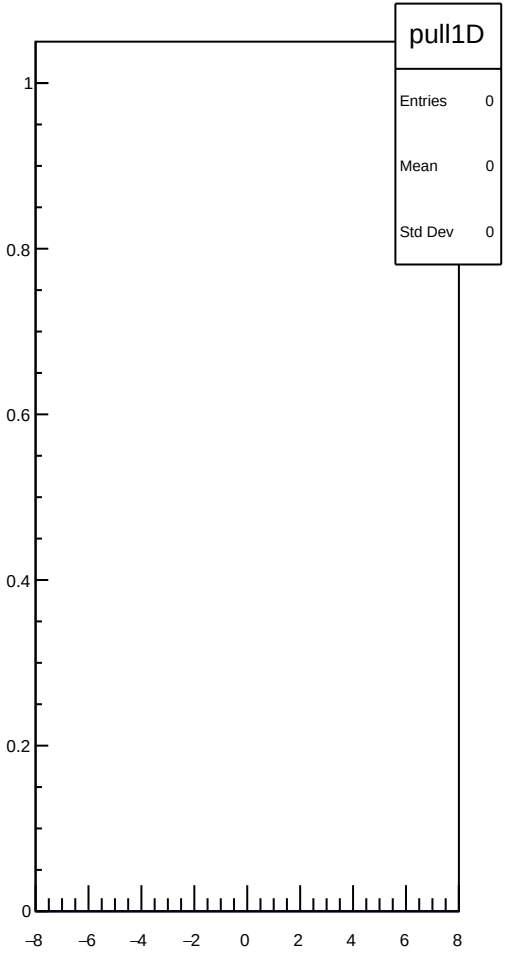

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

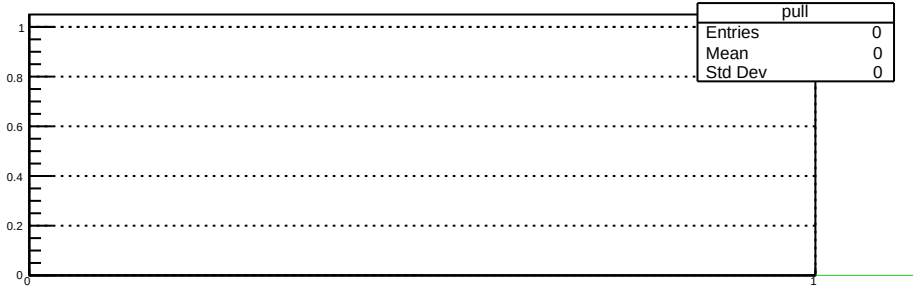

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

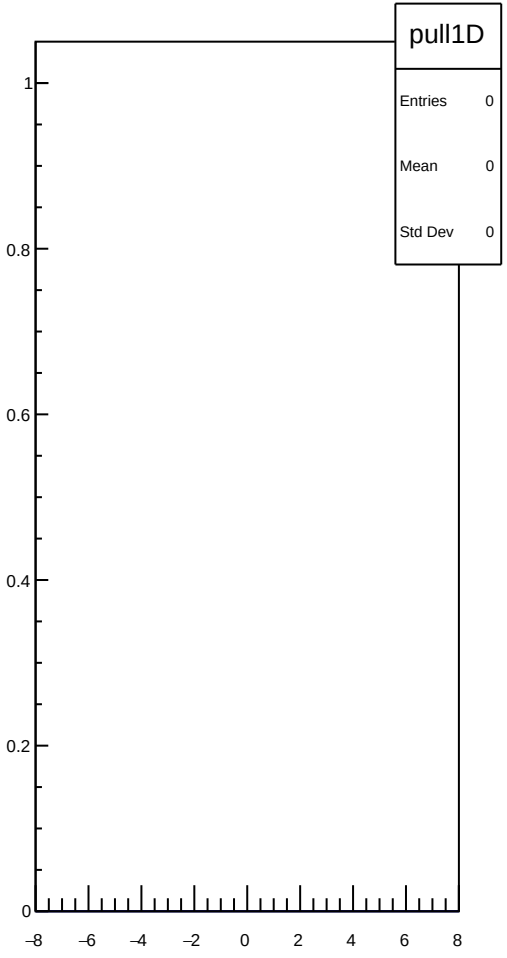

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

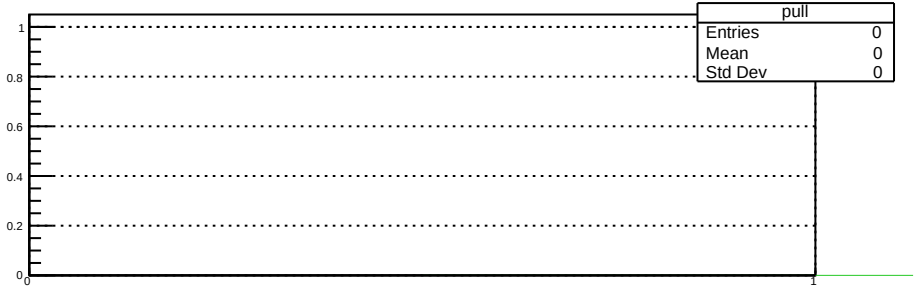

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

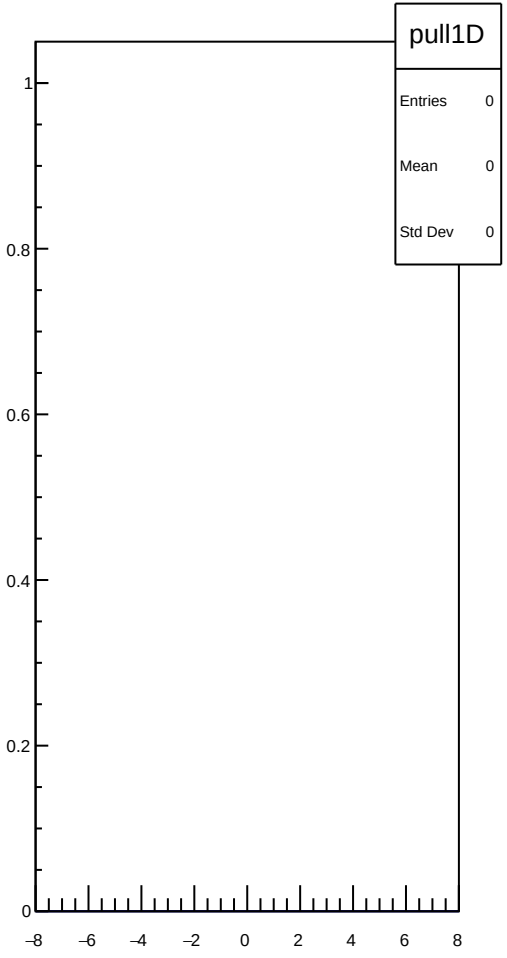

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

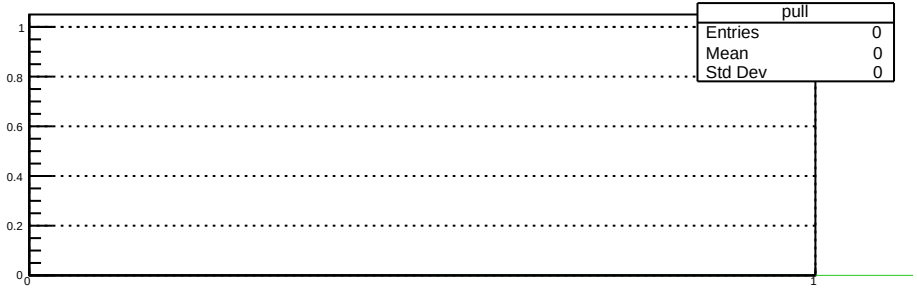

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

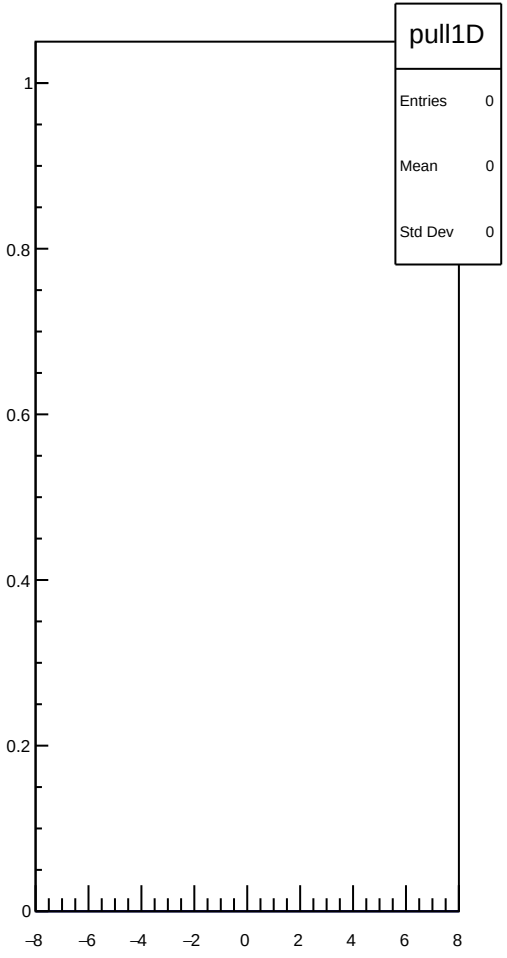

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

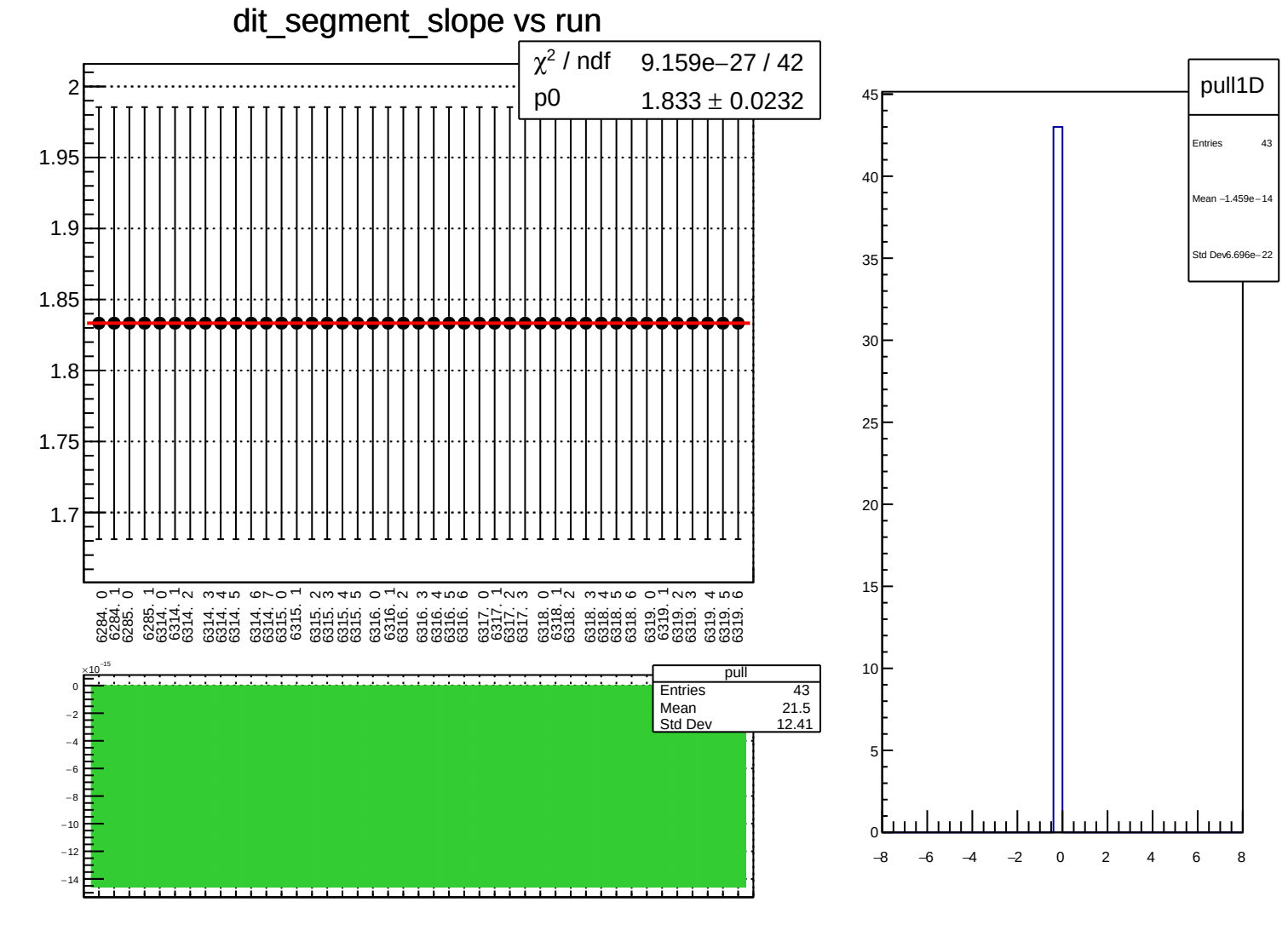

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

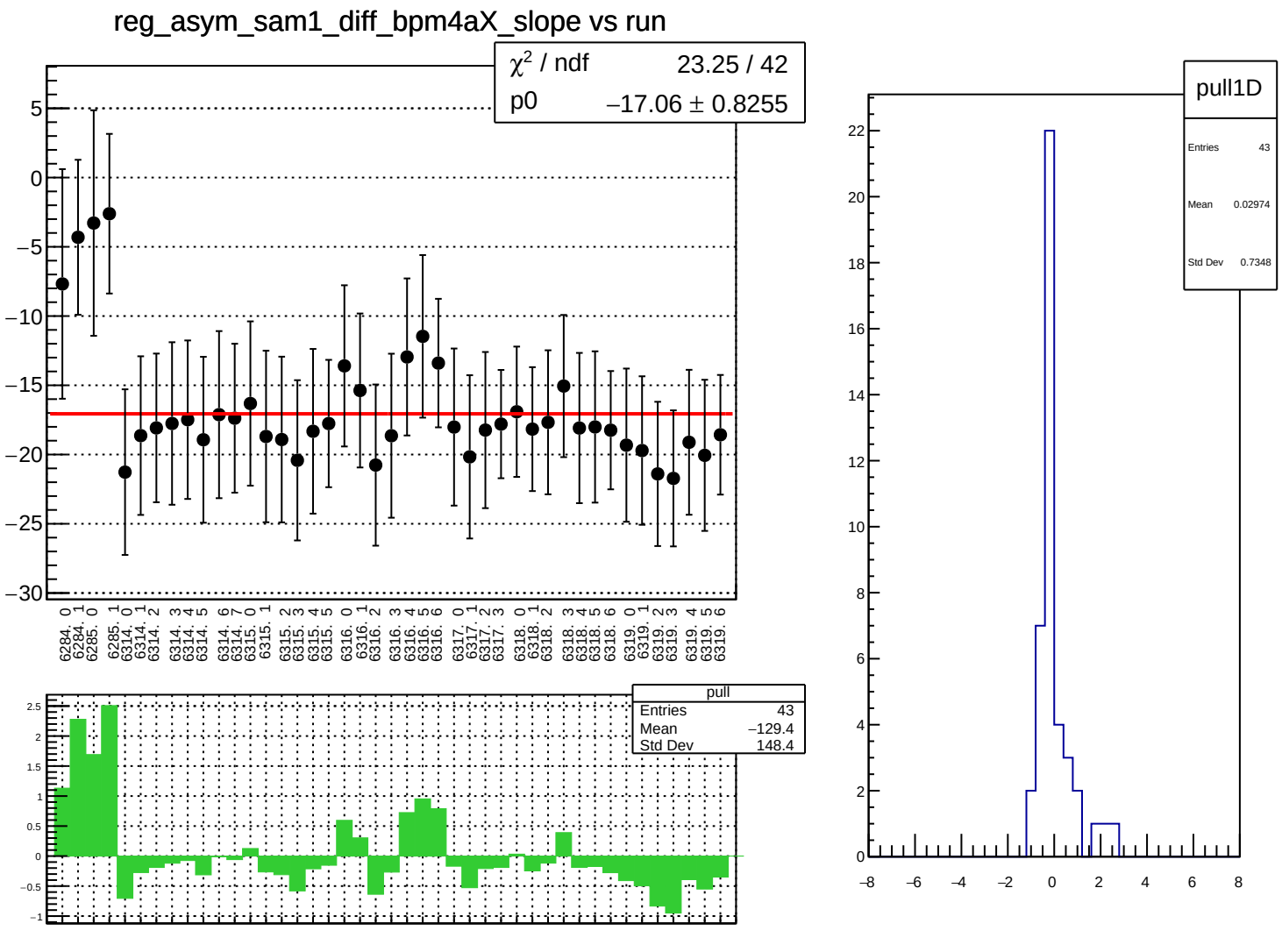

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

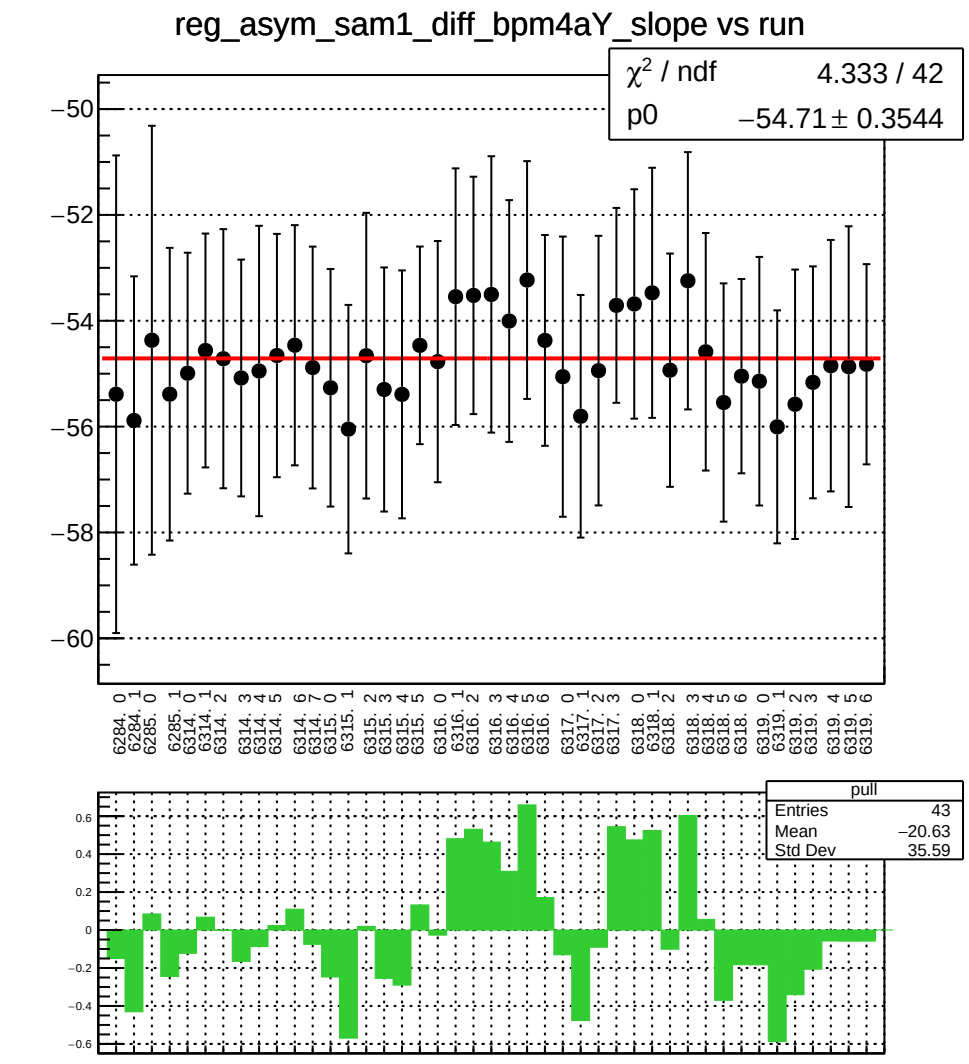

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

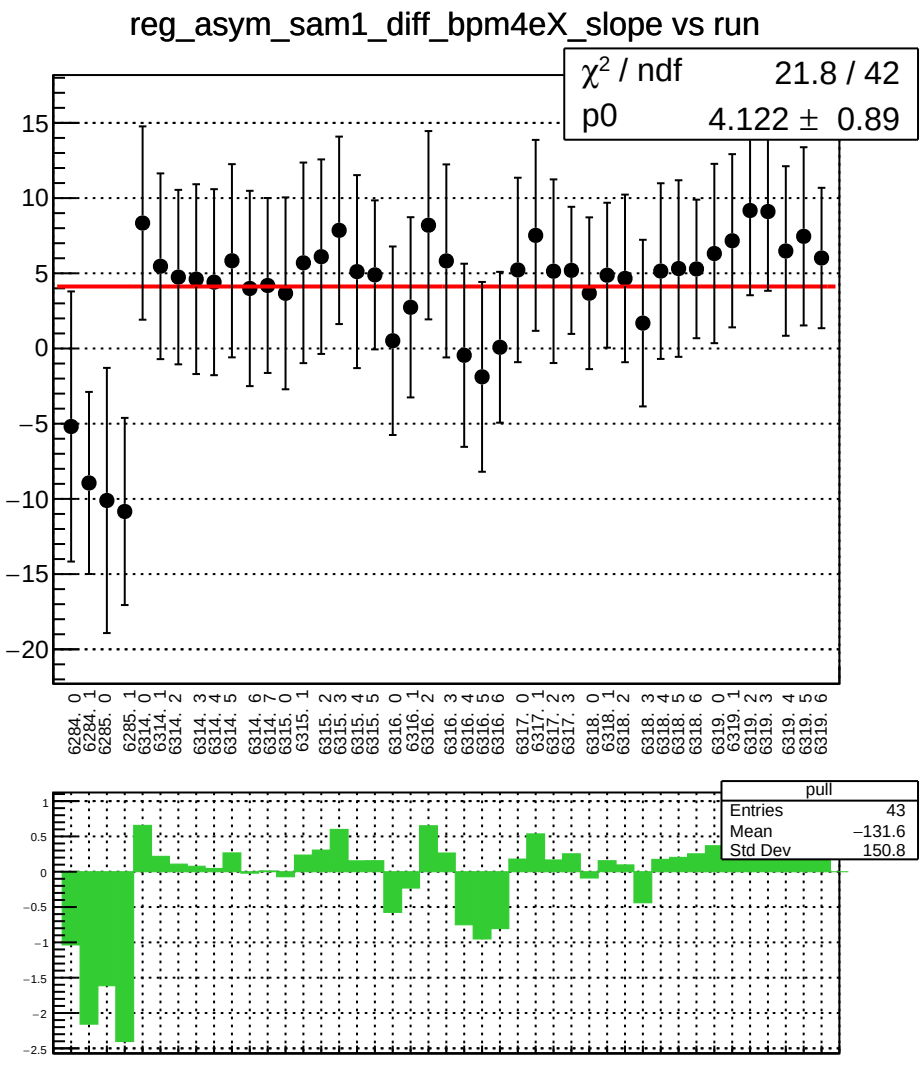

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

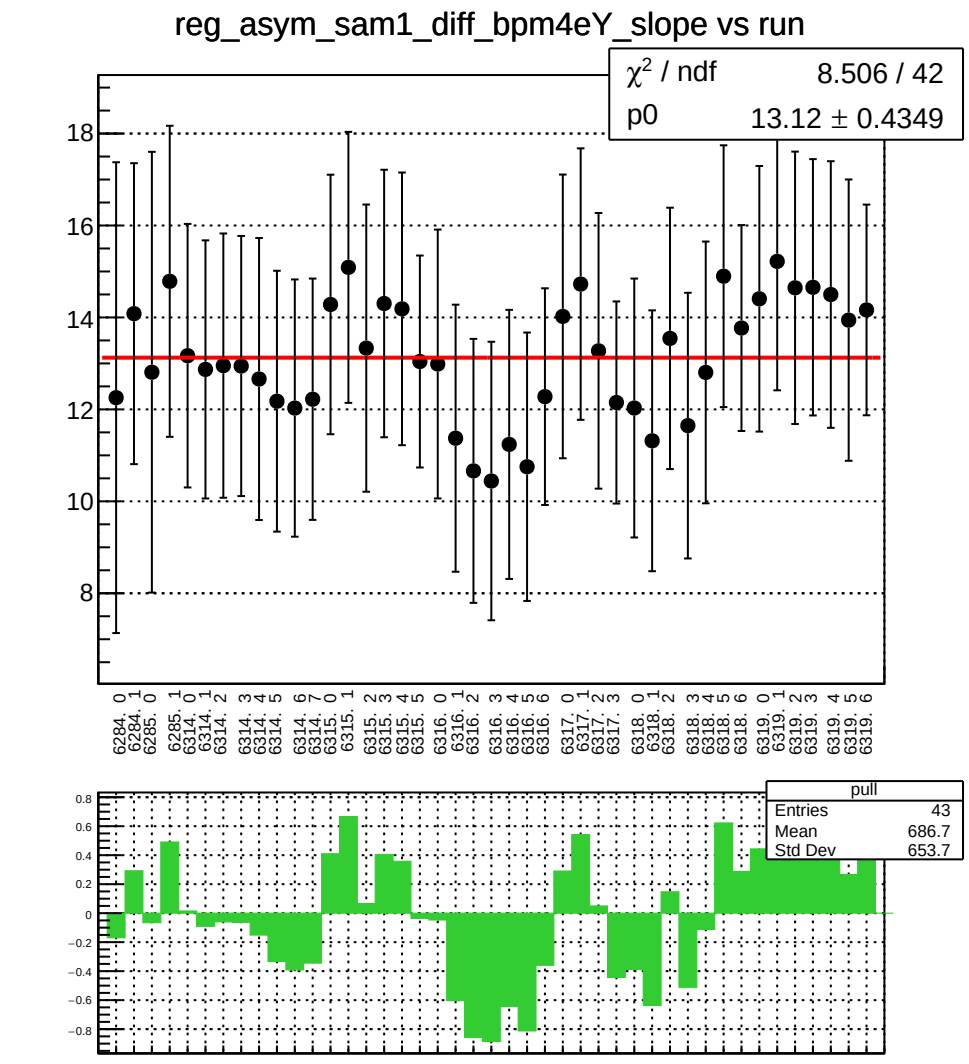

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

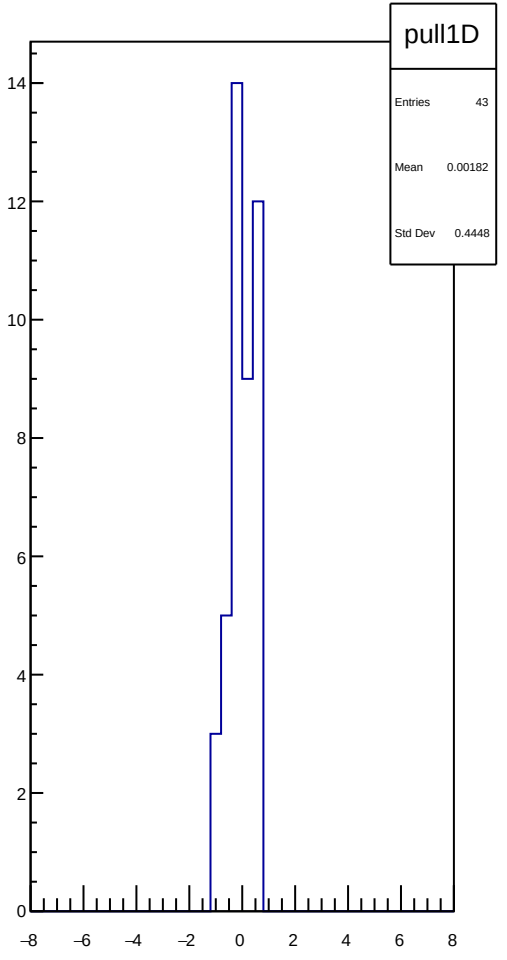

dit_segment_slope vs run
χ^2 / ndf 9.159e−27 / 42
p0 1.833 ± 0.0232
2
1.95
1.9
1.85
1.8
1.75
1.7
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −1.459e−14
Std Dev 6.696e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

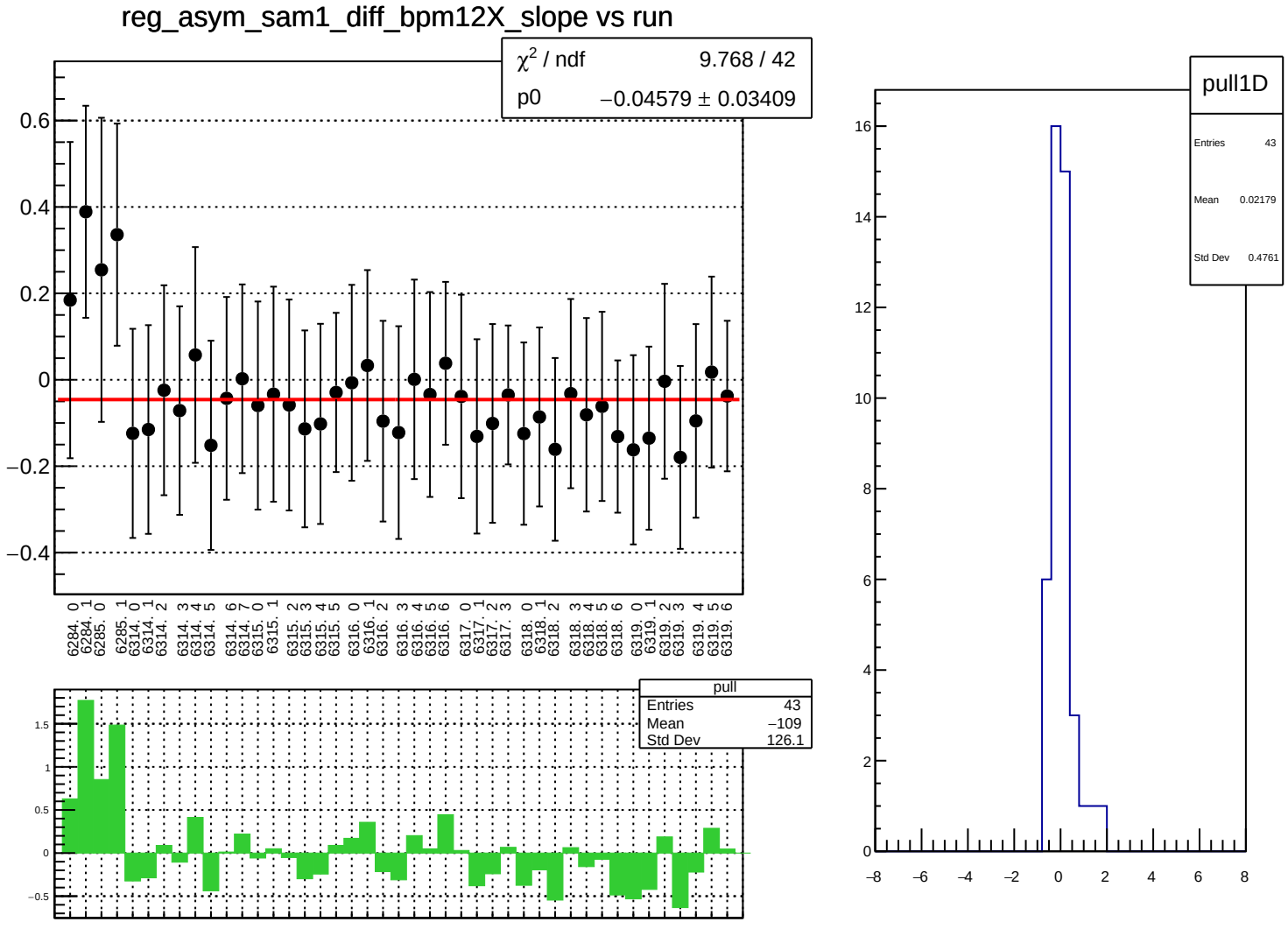

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 23.25 / 42
p0 −17.06 ± 0.8255
pull
Entries 43
Mean −129.4
Std Dev 148.4
pull1D
Entries 43
Mean 0.02974
Std Dev 0.7348

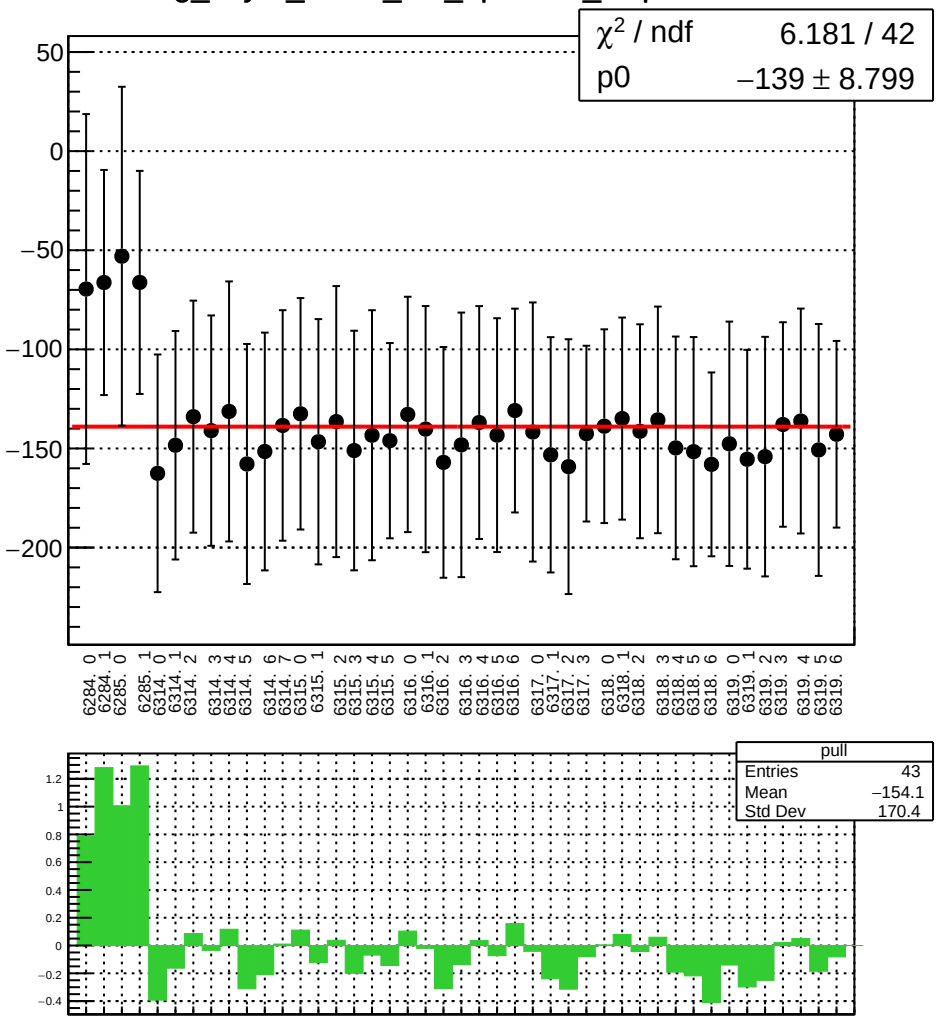

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.333 / 42
p0 −54.71 ± 0.3544
−50
−52
−54
−56
−58
−60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −20.63
Std Dev 35.59
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.005956
Std Dev 0.3174
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

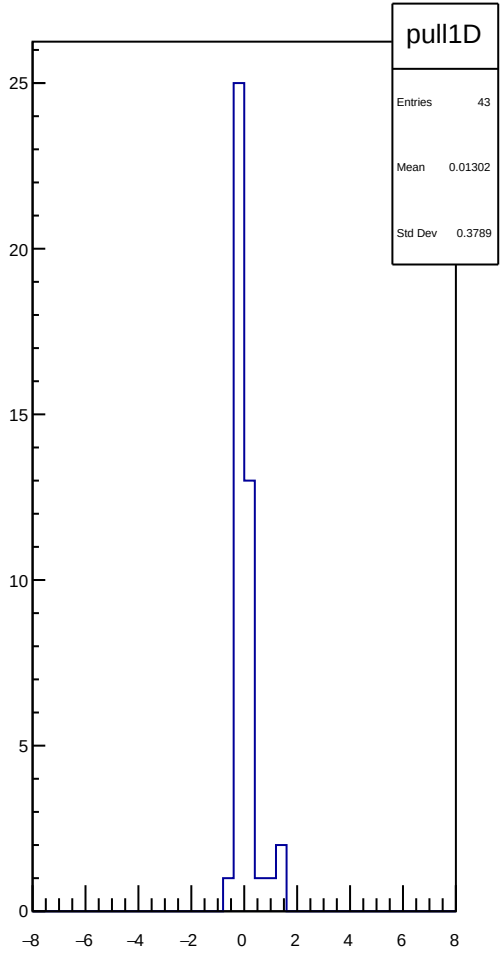

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 21.8 / 42
p0 4.122 ± 0.89
15
10
5
0
−5
−10
−15
−20
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −131.6
Std Dev 150.8
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02903
Std Dev 0.7114
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

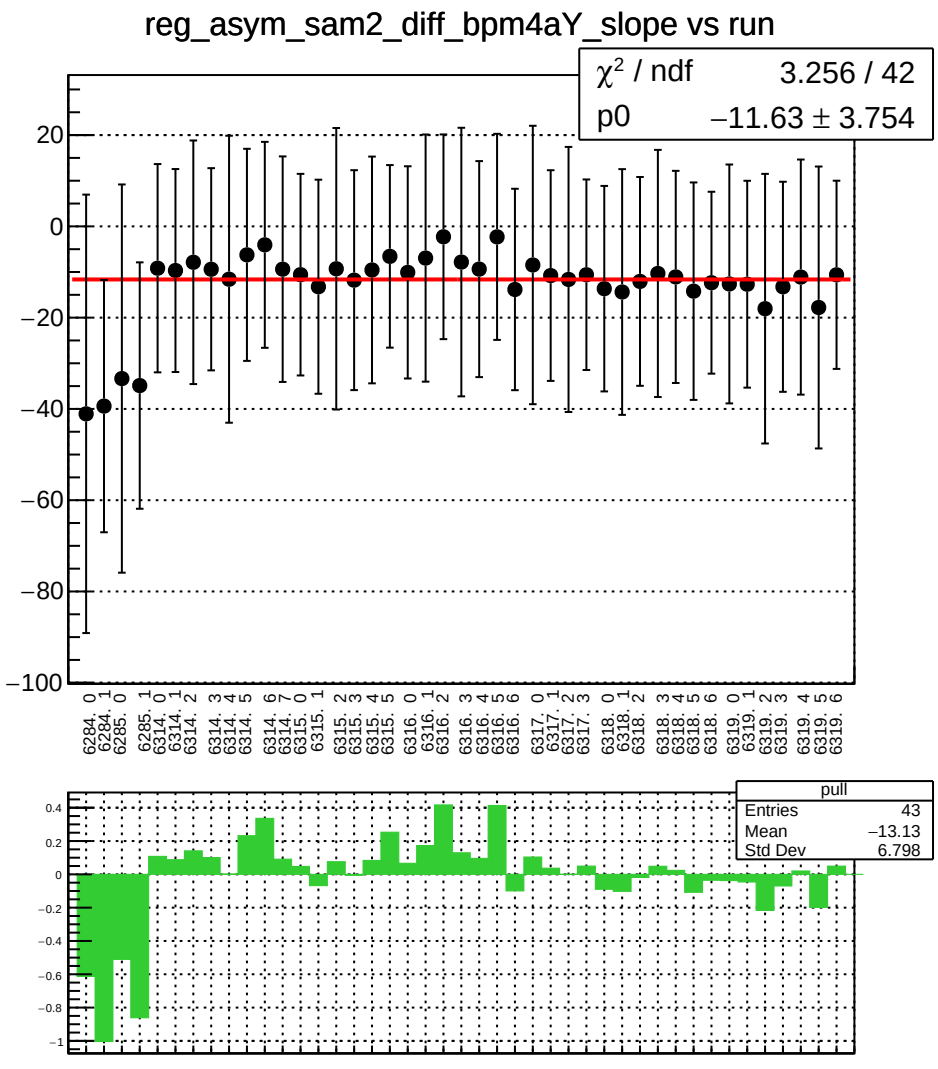

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 8.506 / 42
p0 13.12 ± 0.4349
pull
Entries 43
Mean 686.7
Std Dev 653.7

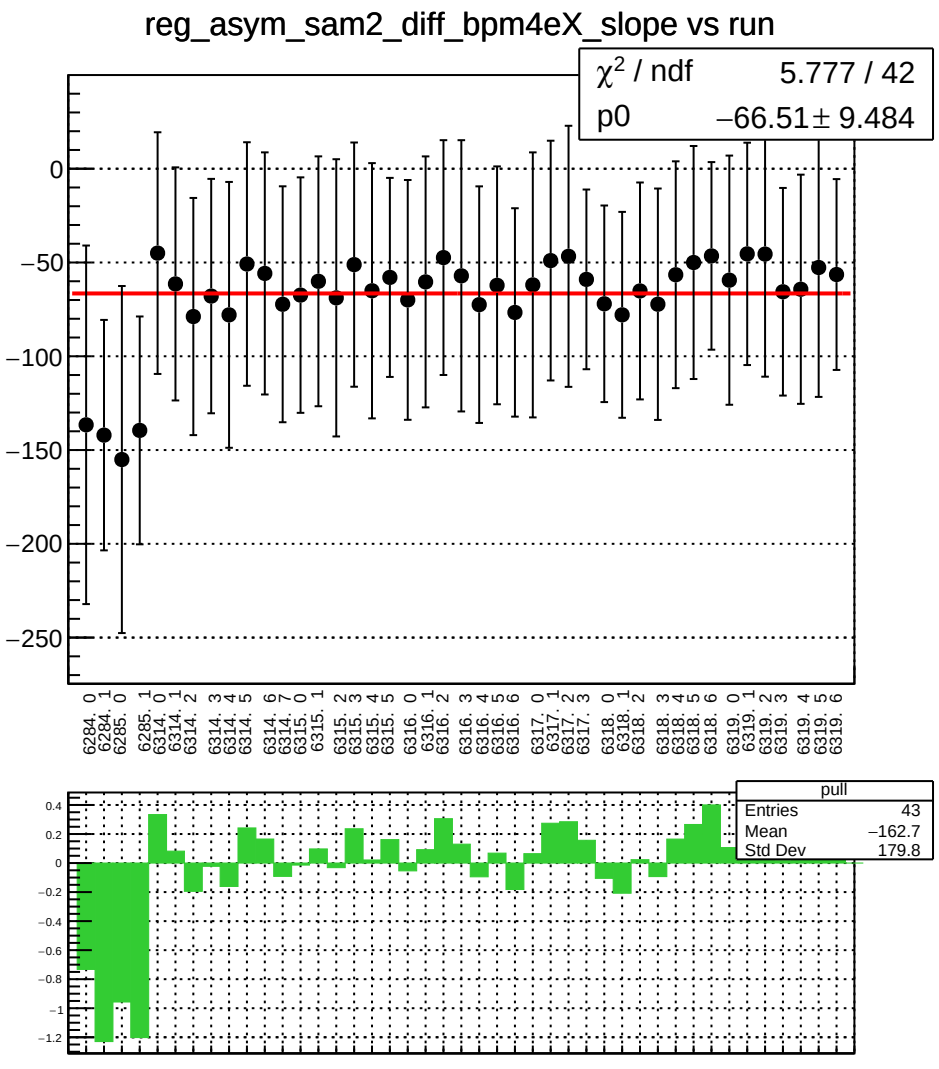

pull1D
Entries 43
Mean 0.00182
Std Dev 0.4448

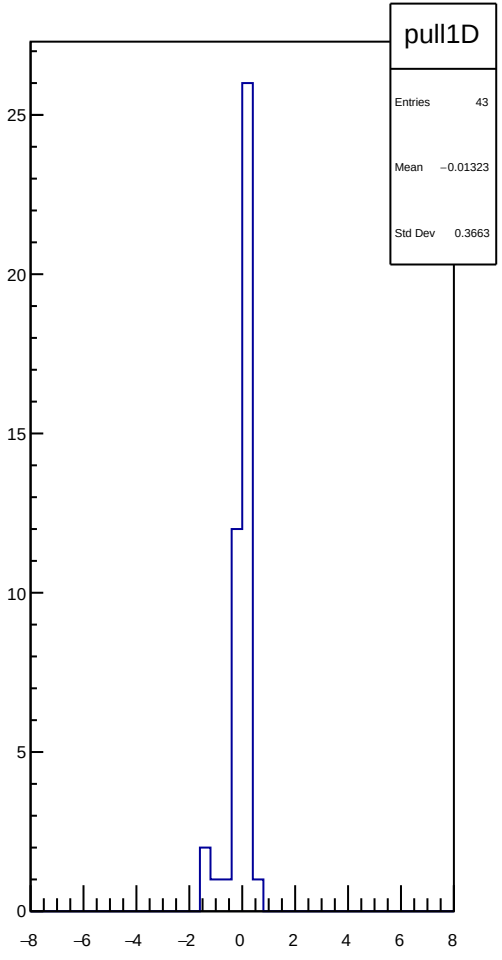

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 9.768 / 42
p0 −0.04579 ± 0.03409
0.6
0.4
0.2
0
−0.2
−0.4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −109
Std Dev 126.1
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean 0.02179
Std Dev 0.4761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

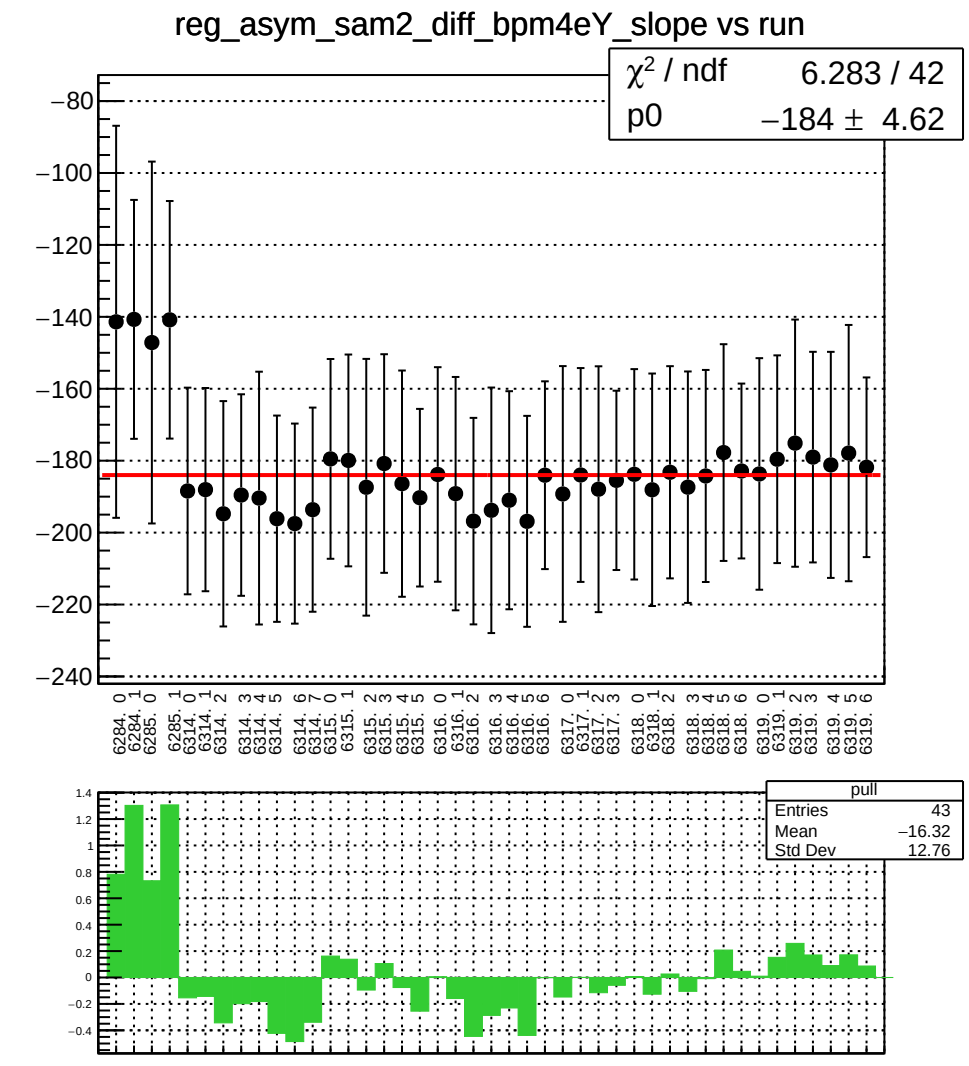

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 6.181 / 42
p0 −139 ± 8.799
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −154.1
Std Dev 170.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

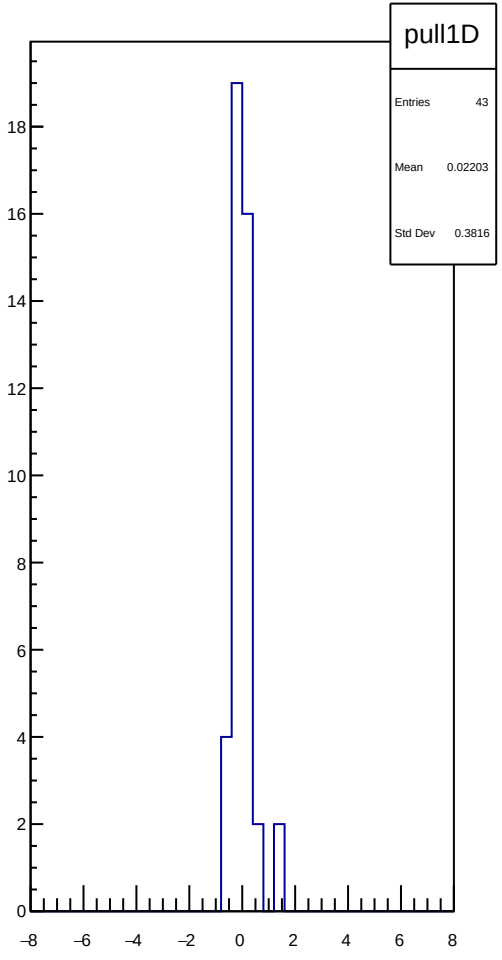

pull1D
Entries 43
Mean 0.01302
Std Dev 0.3789
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

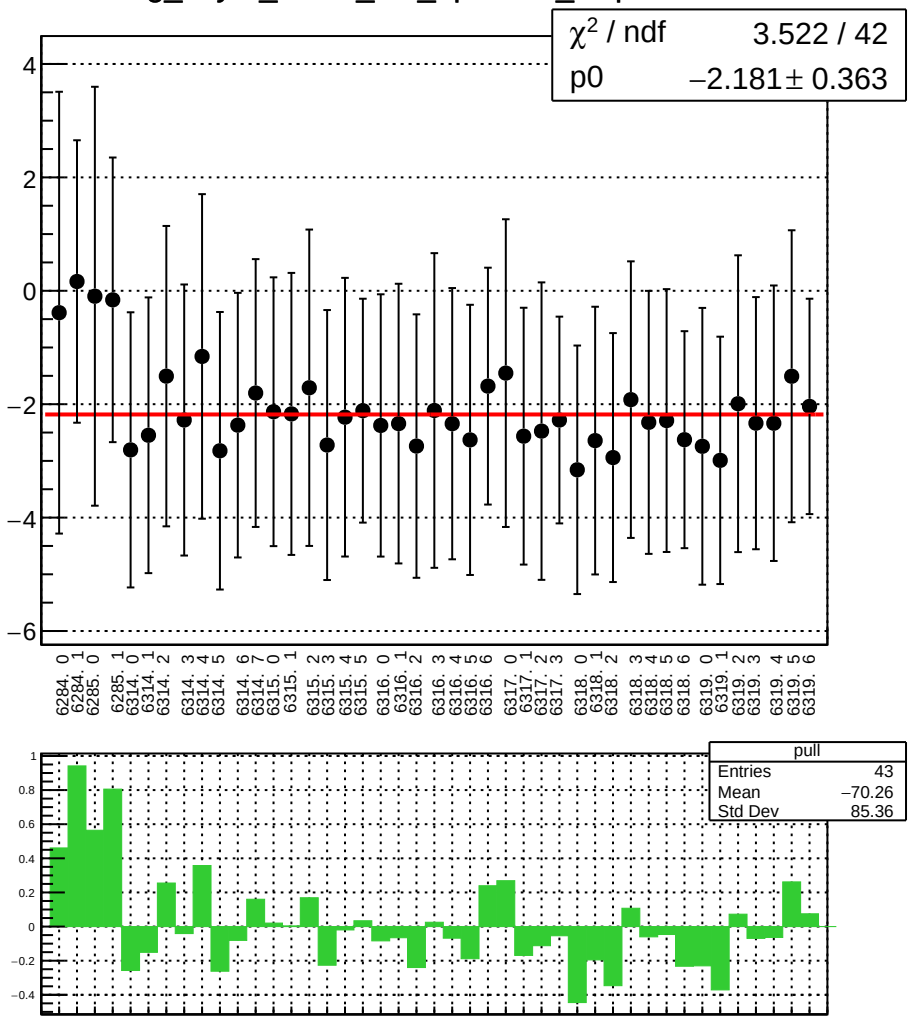

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 3.256 / 42
p0 −11.63 ± 3.754
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −13.13
Std Dev 6.798
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean −0.02086
Std Dev 0.2744
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

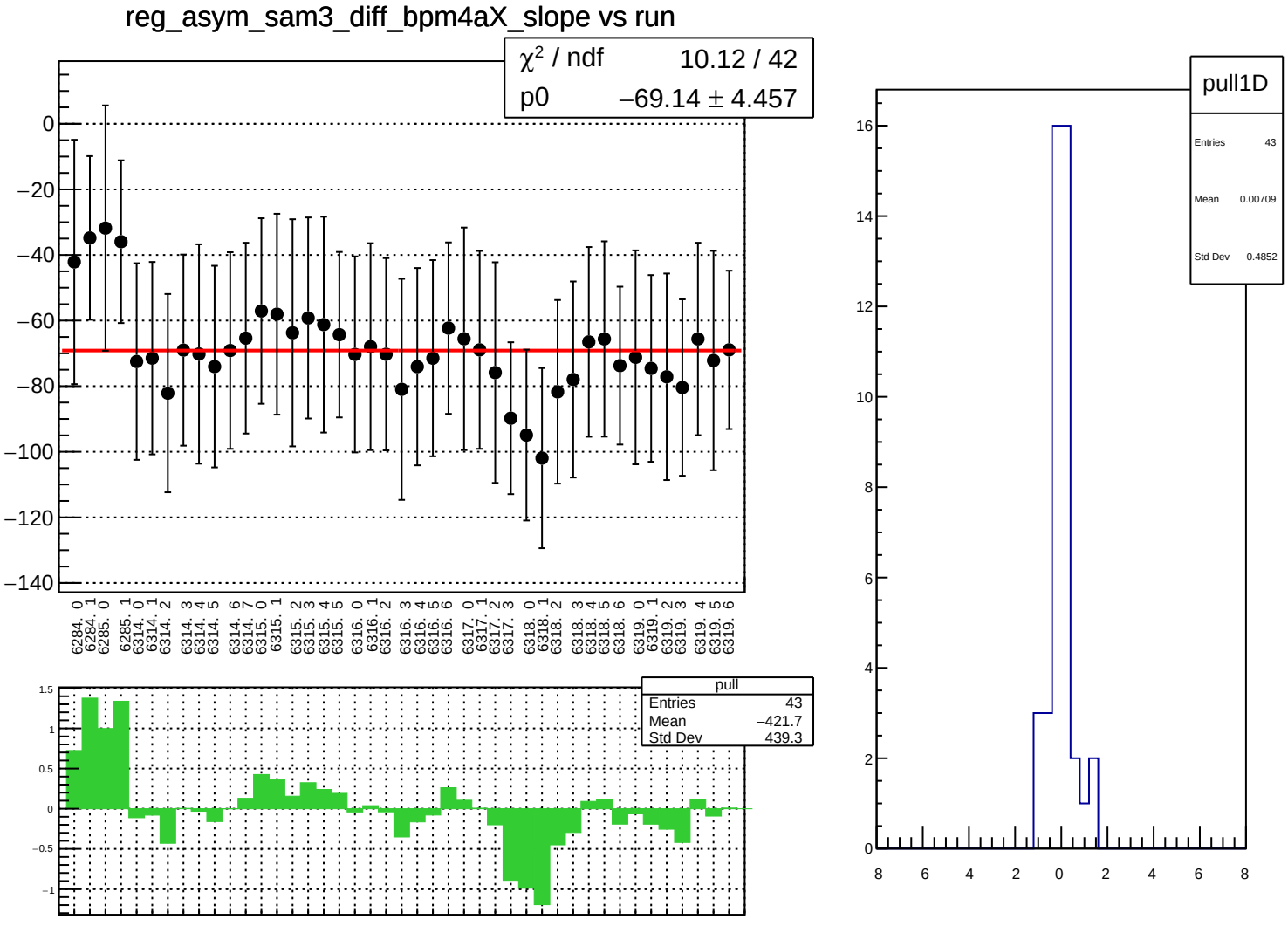

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 5.777 / 42
p0 −66.51 ± 9.484
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −162.7
Std Dev 179.8
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

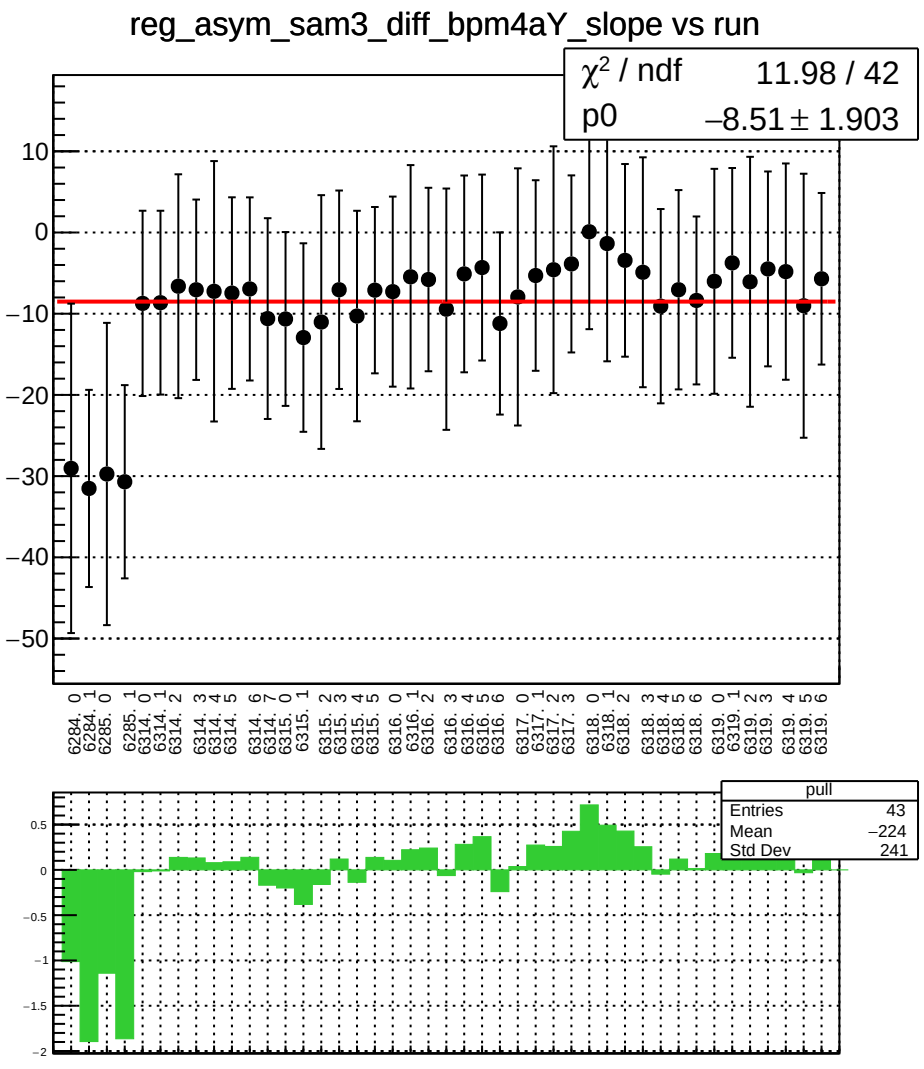

pull1D
Entries 43
Mean −0.01323
Std Dev 0.3663
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

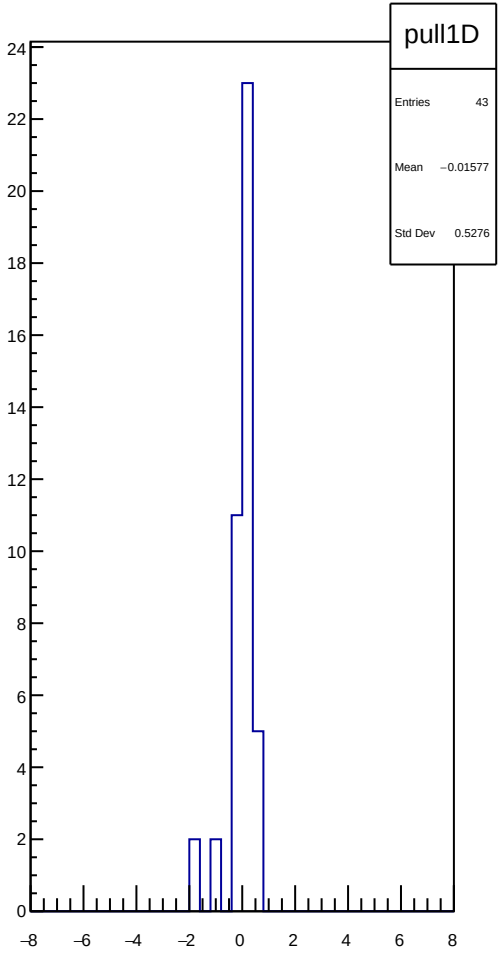

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 6.283 / 42
p0 −184 ± 4.62
−80
−100
−120
−140
−160
−180
−200
−220
−240
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −16.32
Std Dev 12.76
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

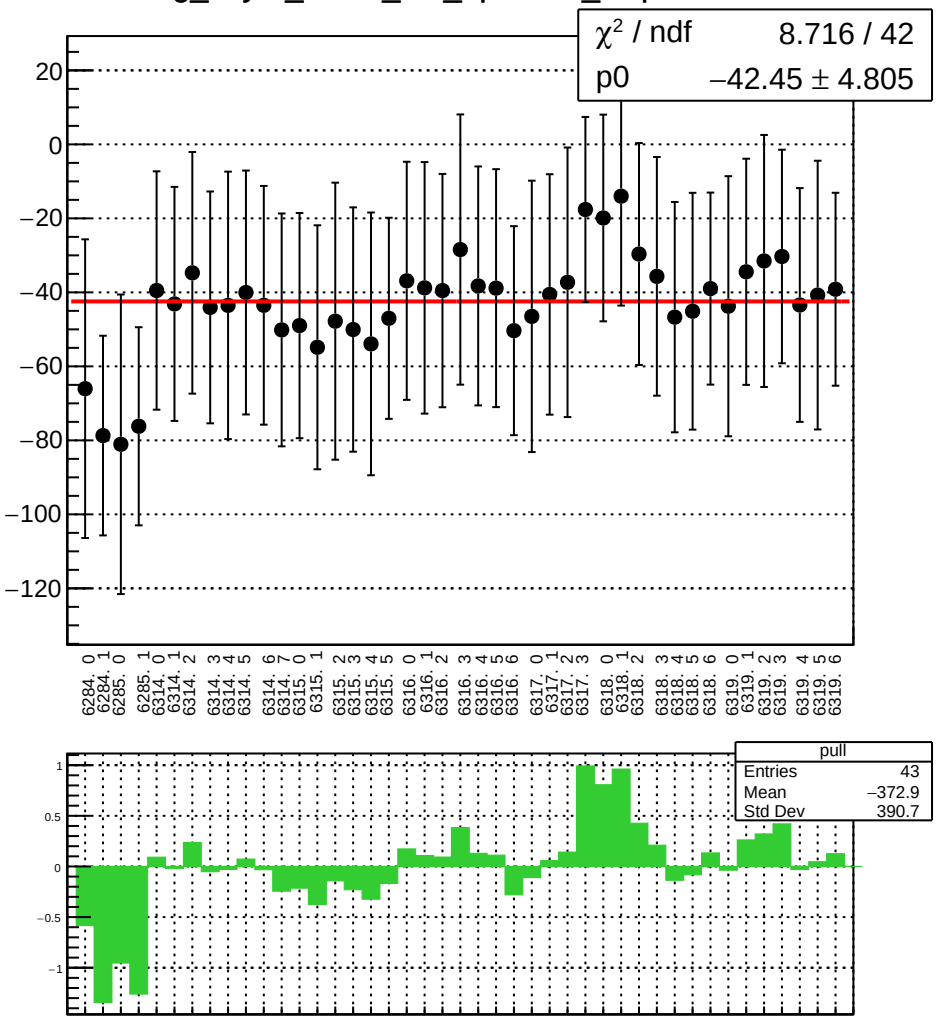

pull1D
Entries 43
Mean 0.02203
Std Dev 0.3816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

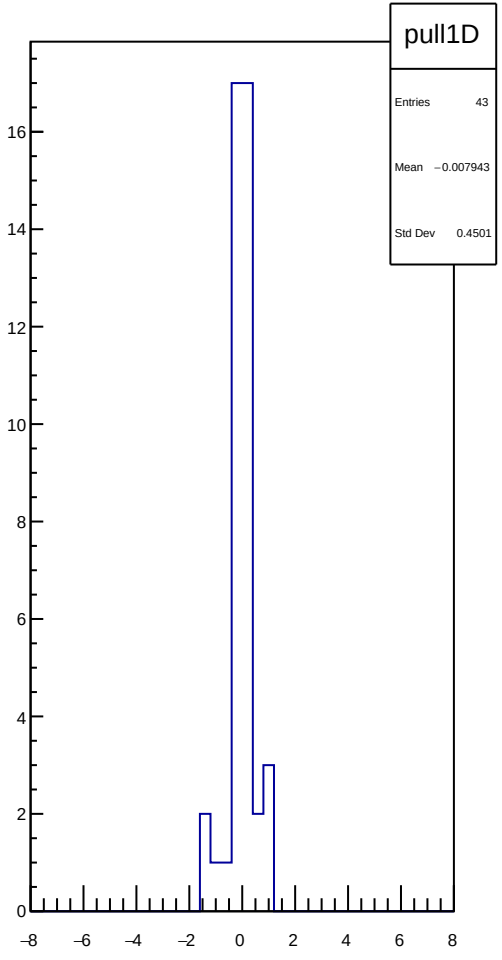

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 3.522 / 42
p0 −2.181 ± 0.363
pull
Entries 43
Mean −70.26
Std Dev 85.36
pull1D
Entries 43
Mean 0.01734
Std Dev 0.2856

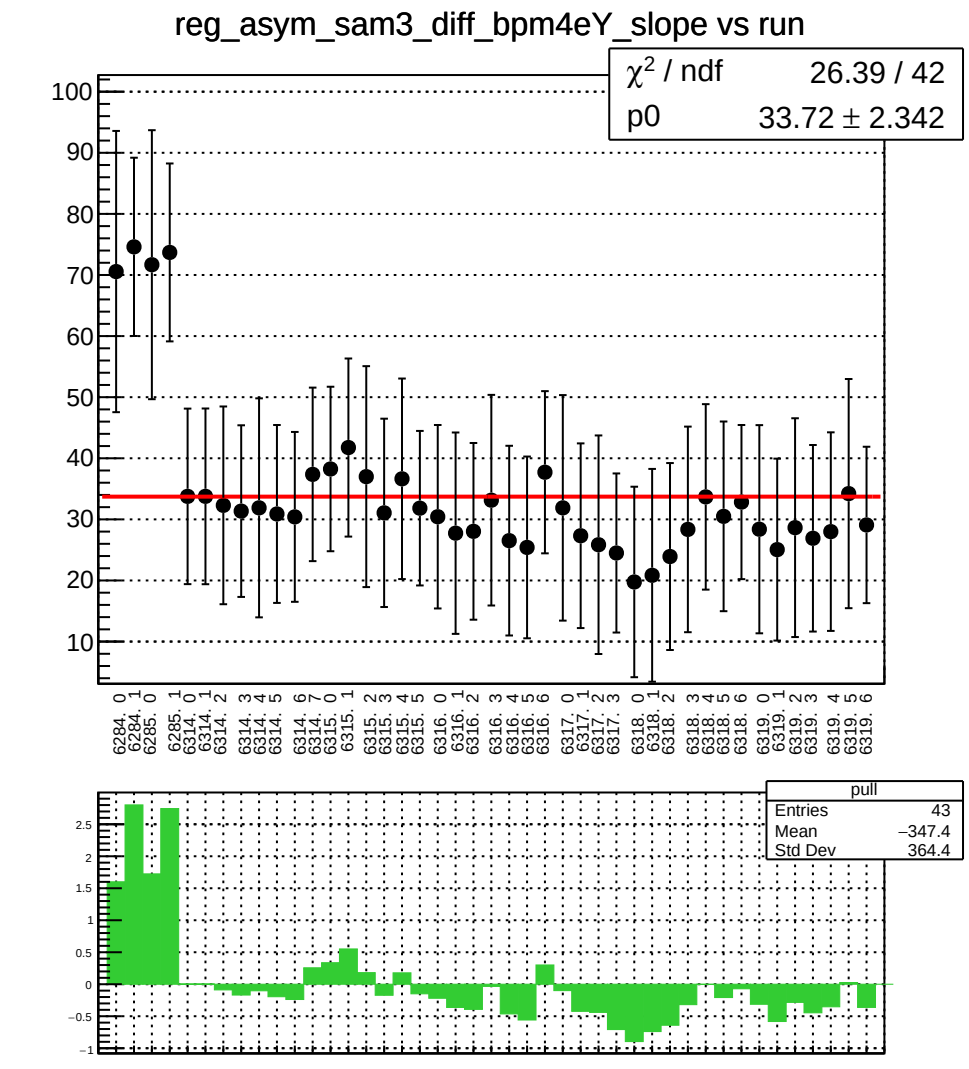

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 10.12 / 42
p0 −69.14 ± 4.457
0
−20
−40
−60
−80
−100
−120
−140
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −421.7
Std Dev 439.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.00709
Std Dev 0.4852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

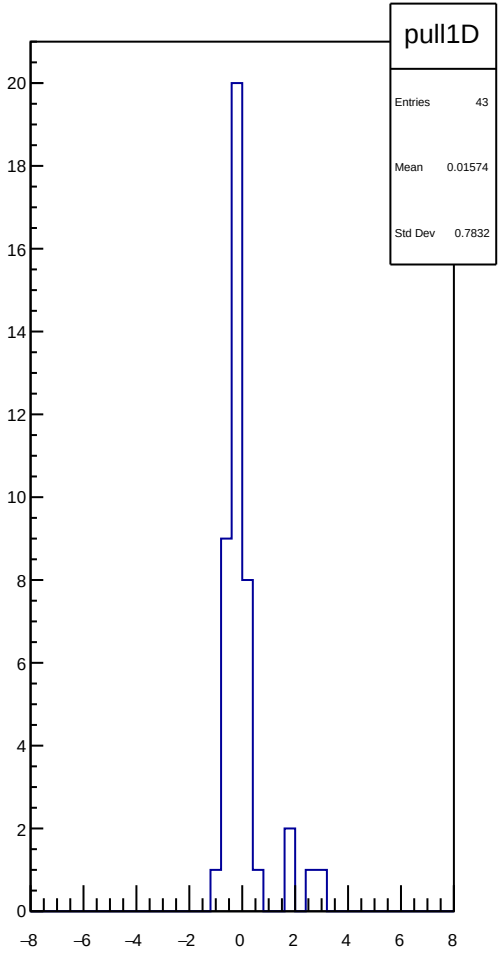

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 11.98 / 42
p0 −8.51 ± 1.903
10
0
−10
−20
−30
−40
−50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −224
Std Dev 241
0.5
0
−0.5
−1
−1.5
−2

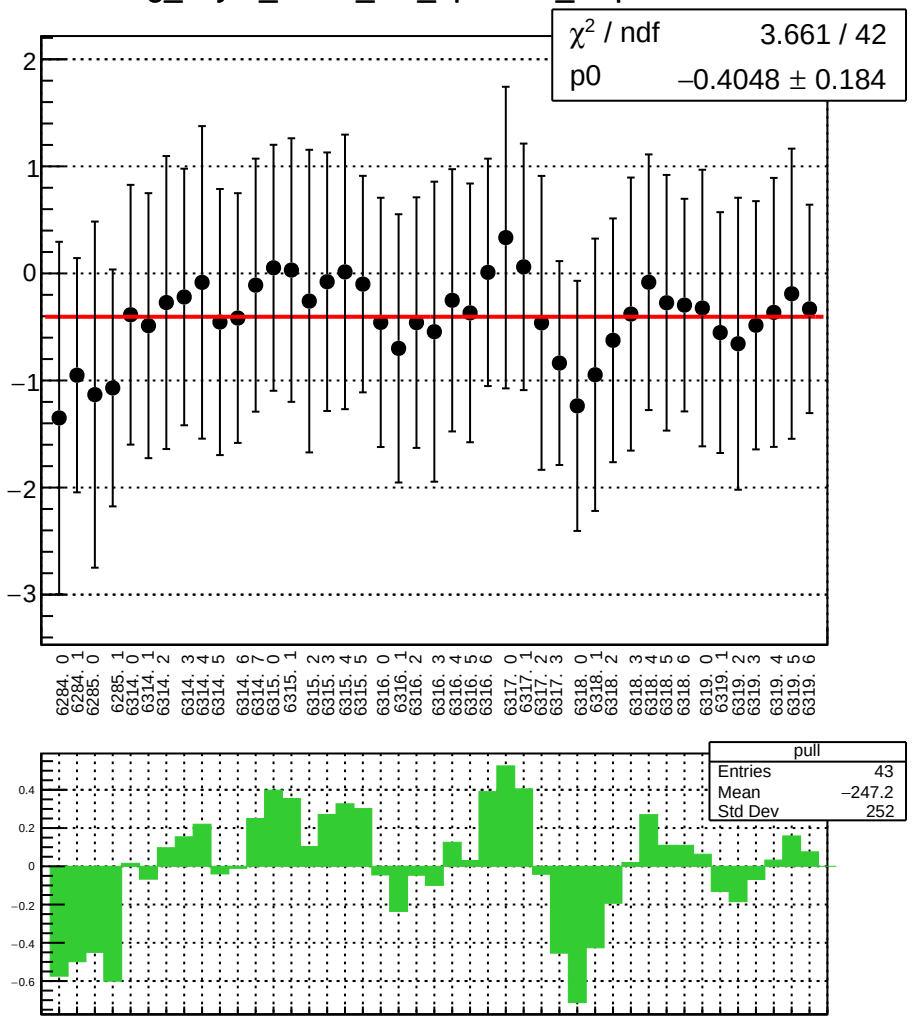

pull1D
Entries 43
Mean −0.01577
Std Dev 0.5276
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

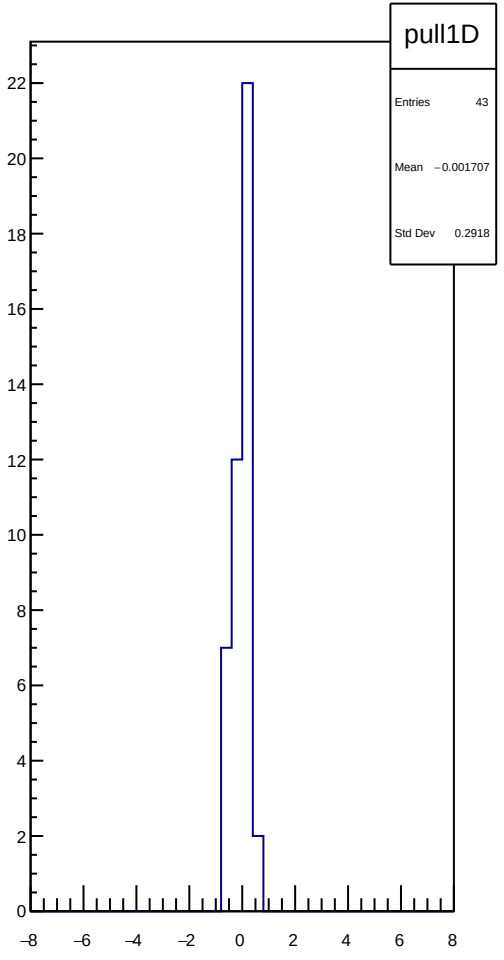

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 8.716 / 42
p0 −42.45 ± 4.805
pull
Entries 43
Mean −372.9
Std Dev 390.7

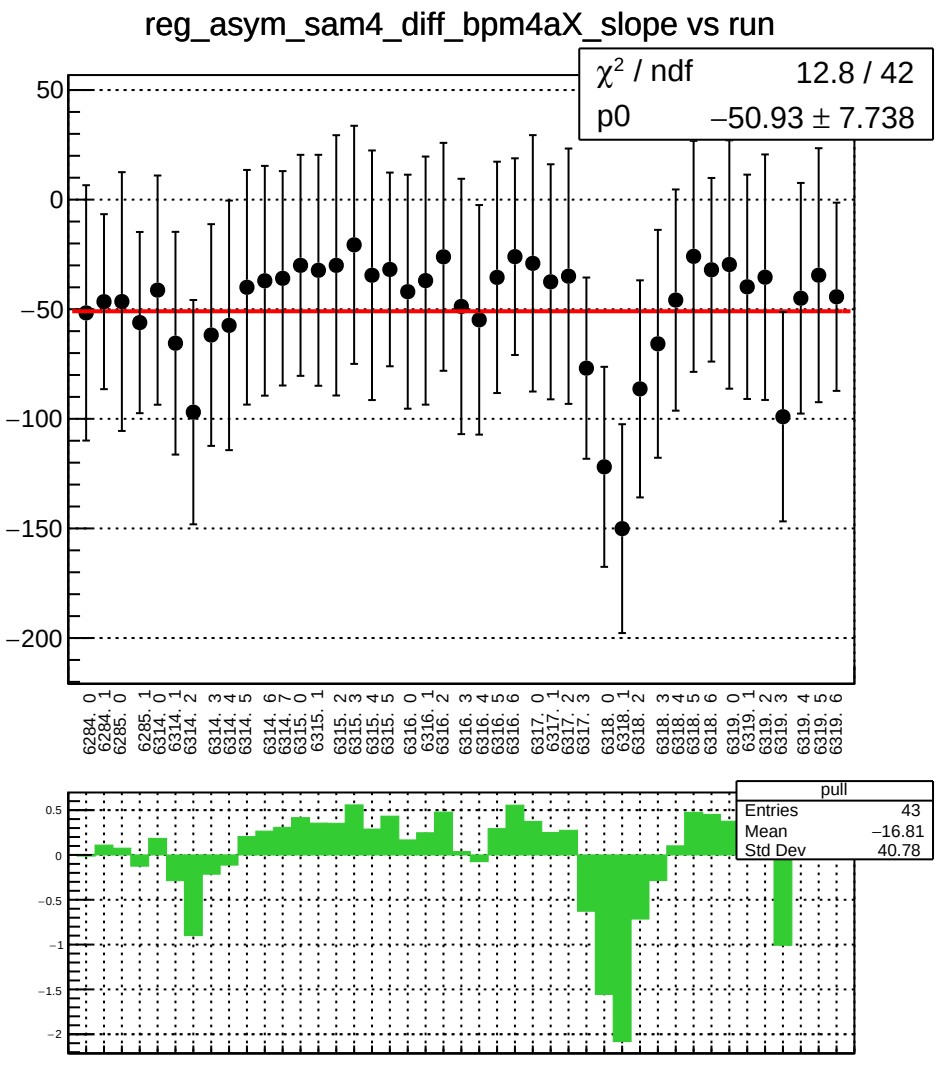

pull1D
Entries 43
Mean −0.007943
Std Dev 0.4501

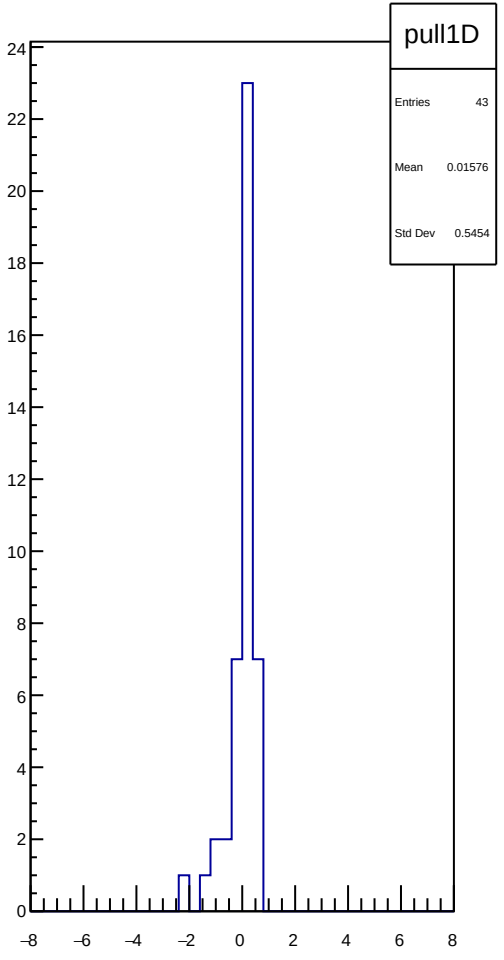

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 26.39 / 42
p0 33.72 ± 2.342
pull
Entries 43
Mean −347.4
Std Dev 364.4

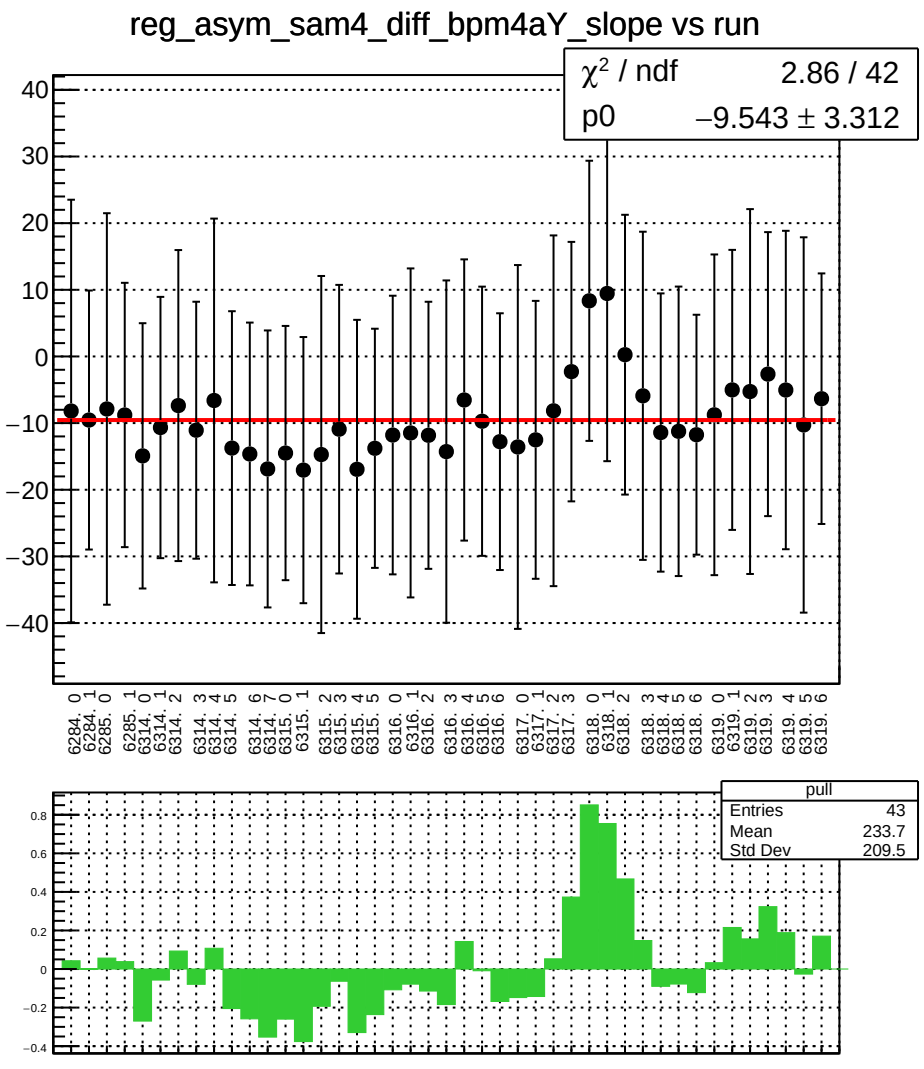

pull1D
Entries 43
Mean 0.01574
Std Dev 0.7832

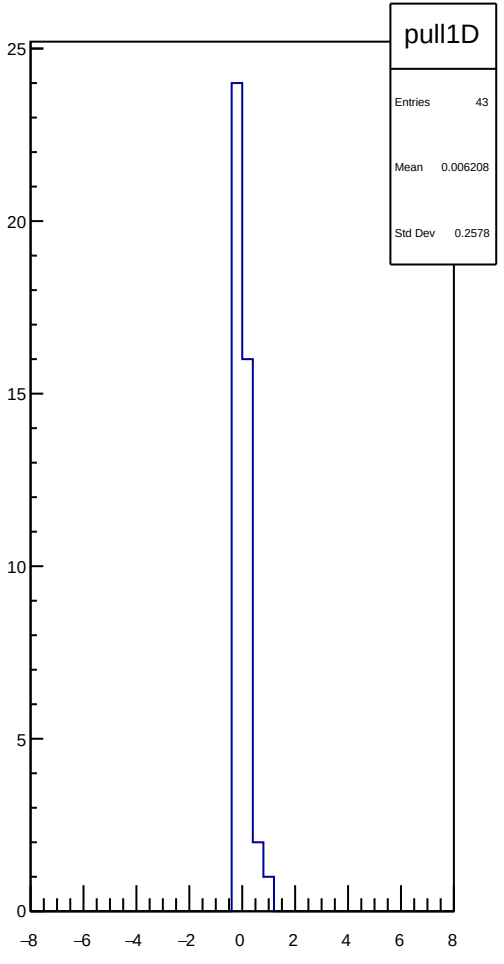

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.661 / 42
p0 −0.4048 ± 0.184
pull
Entries 43
Mean −247.2
Std Dev 252
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6

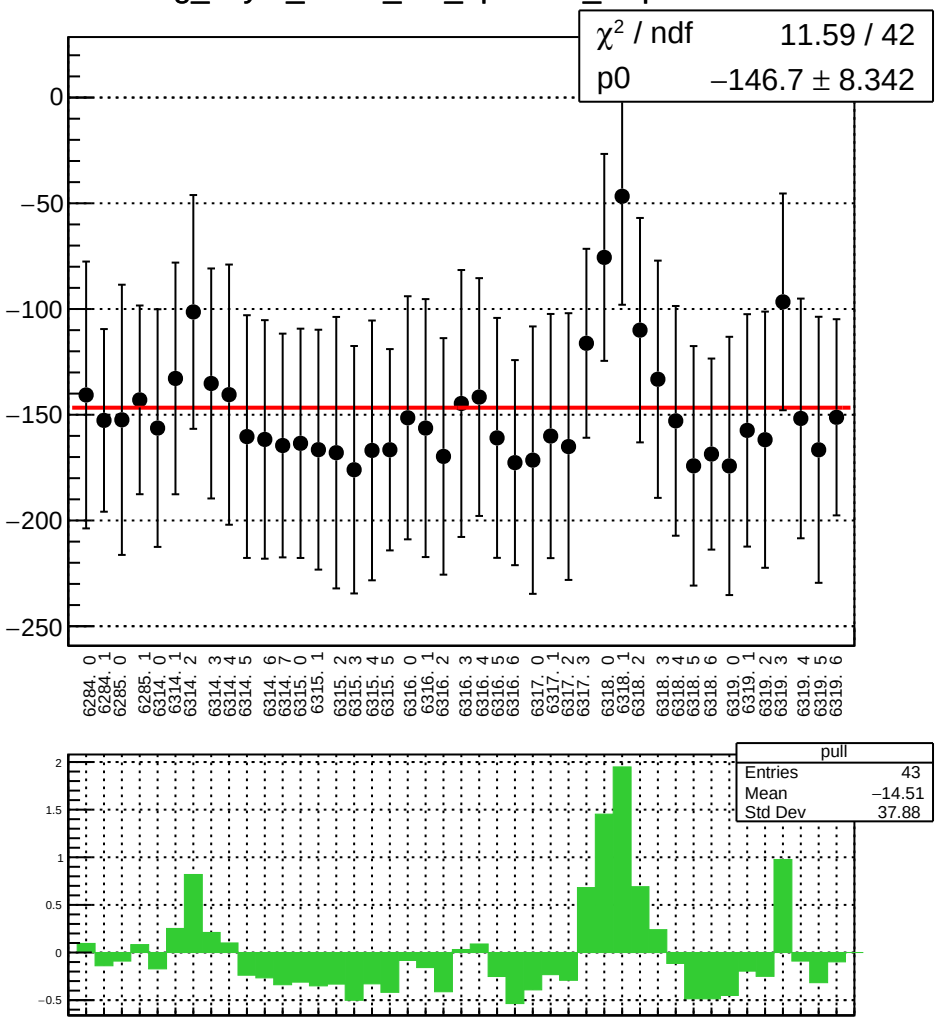

pull1D
Entries 43
Mean −0.001707
Std Dev 0.2918

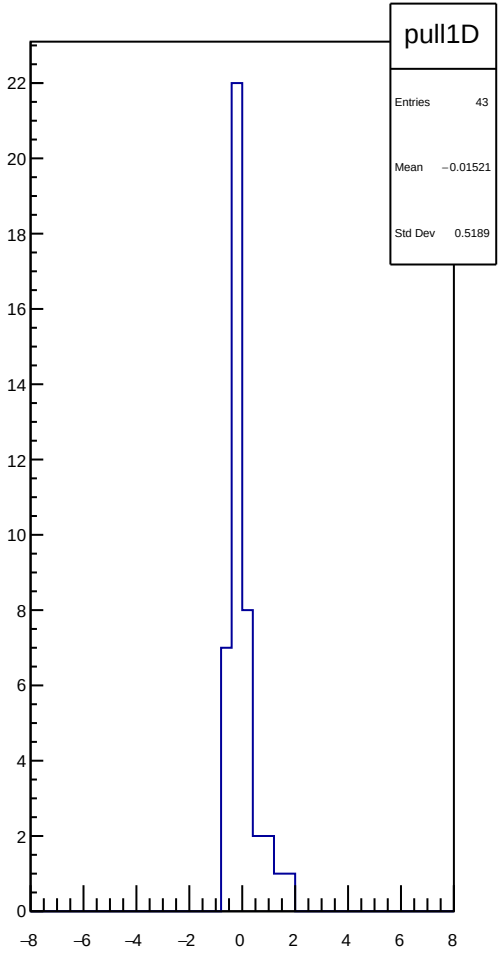

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 12.8 / 42
p0 −50.93 ± 7.738
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −16.81
Std Dev 40.78
0.5
0
−0.5
−1
−1.5
−2

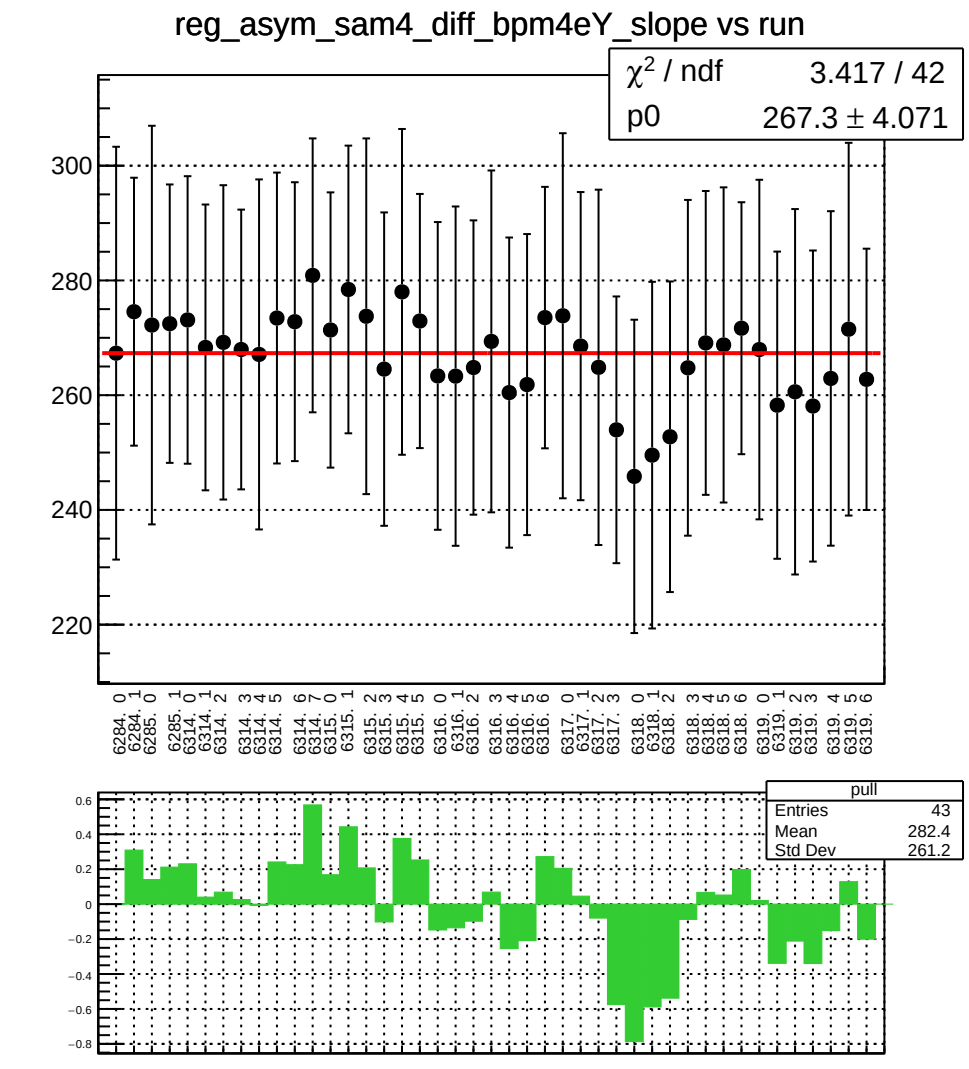

pull1D
Entries 43
Mean 0.01576
Std Dev 0.5454
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

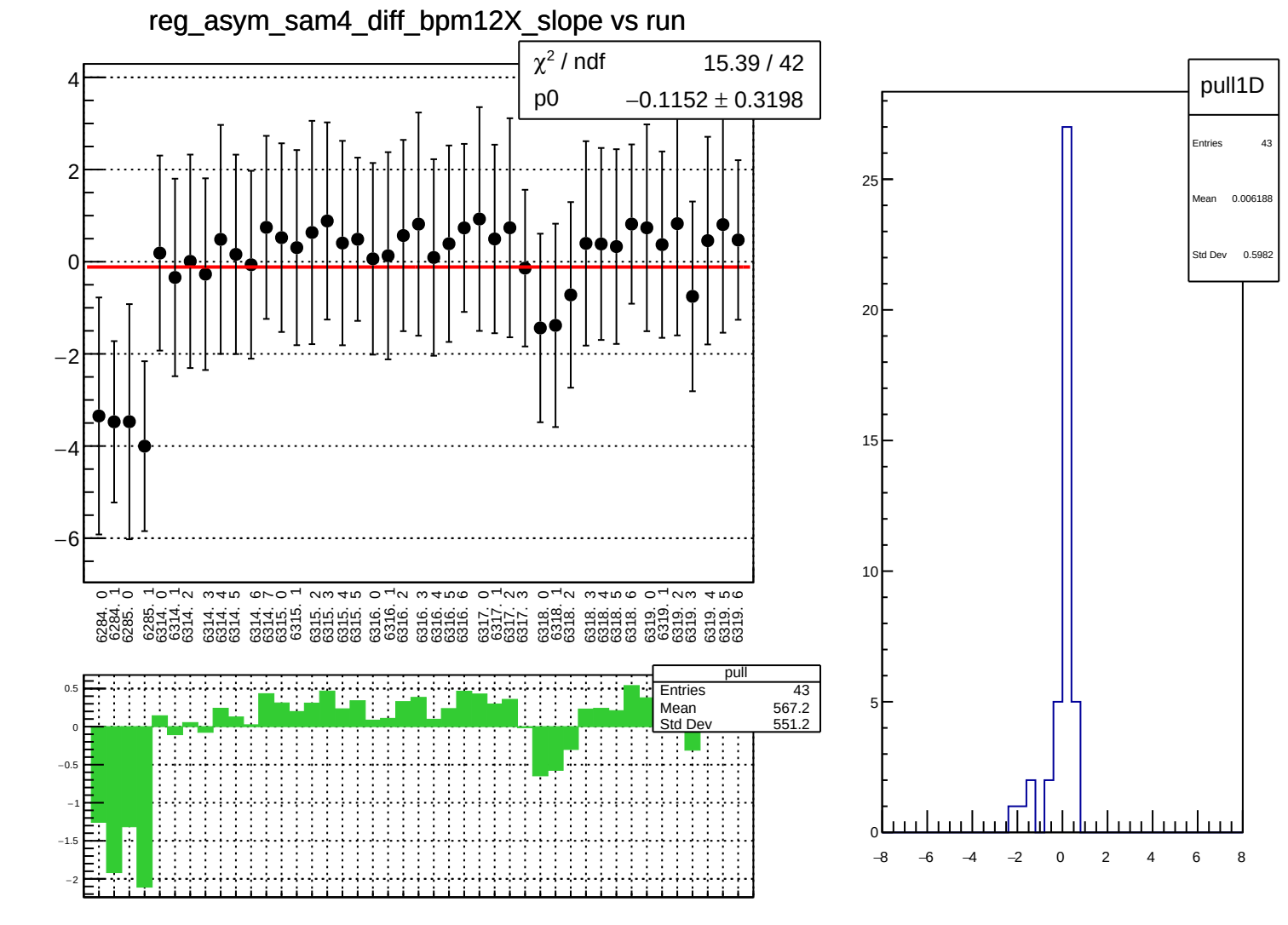

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.86 / 42
p0 −9.543 ± 3.312
pull
Entries 43
Mean 233.7
Std Dev 209.5


pull1D
Entries 43
Mean 0.006208
Std Dev 0.2578

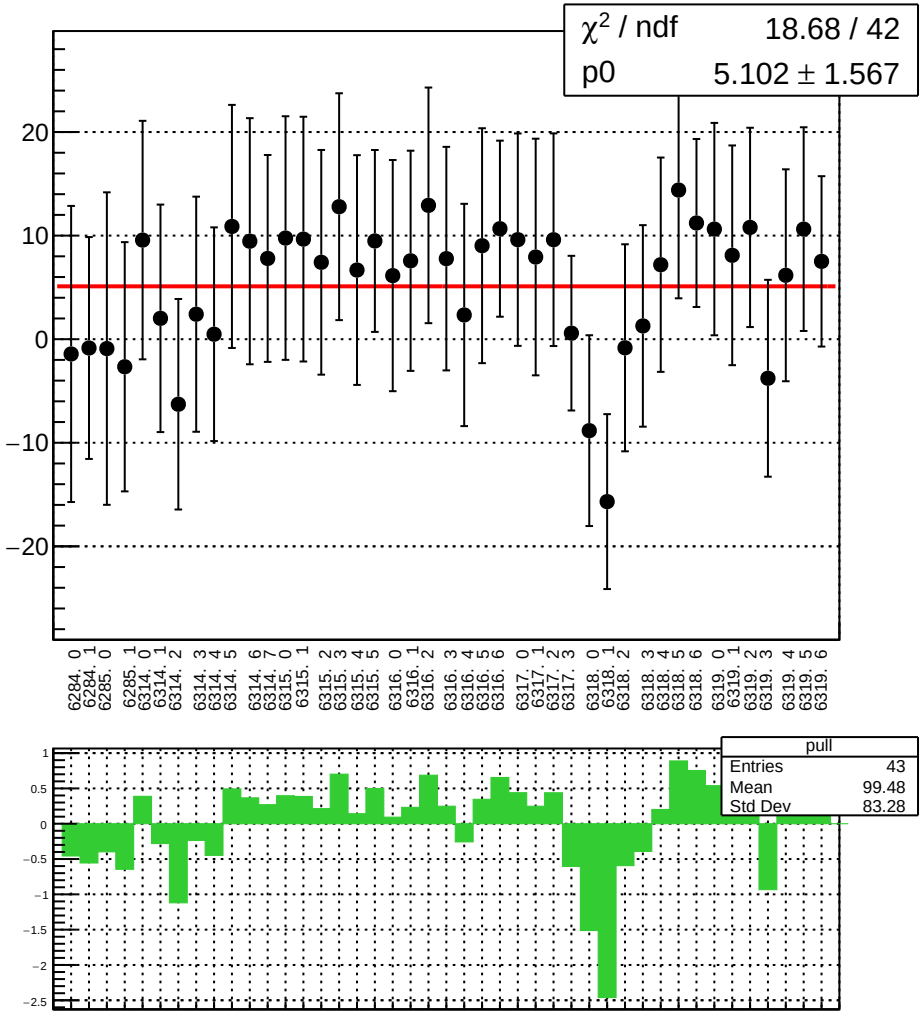

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 42
p0 −146.7 ± 8.342
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −14.51
Std Dev 37.88
2
1.5
1
0.5
0
−0.5

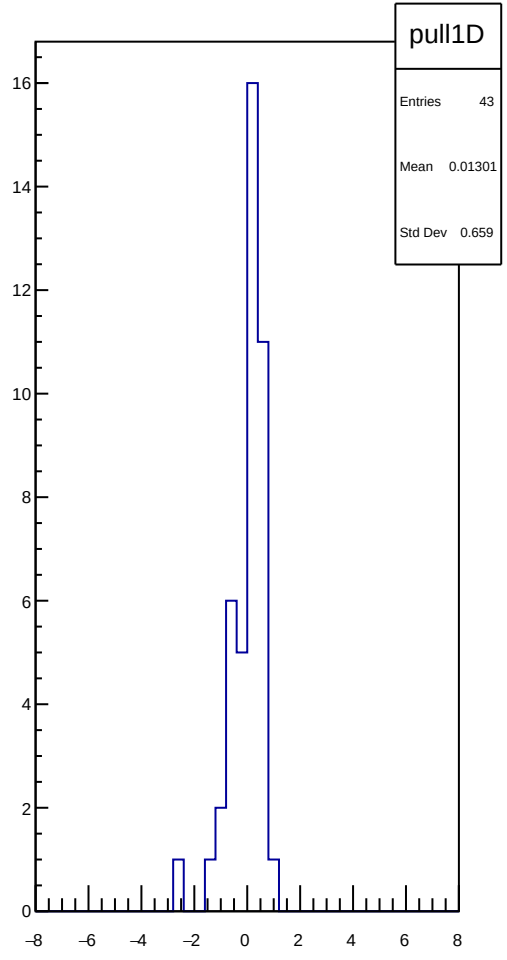

pull1D
Entries 43
Mean −0.01521
Std Dev 0.5189
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

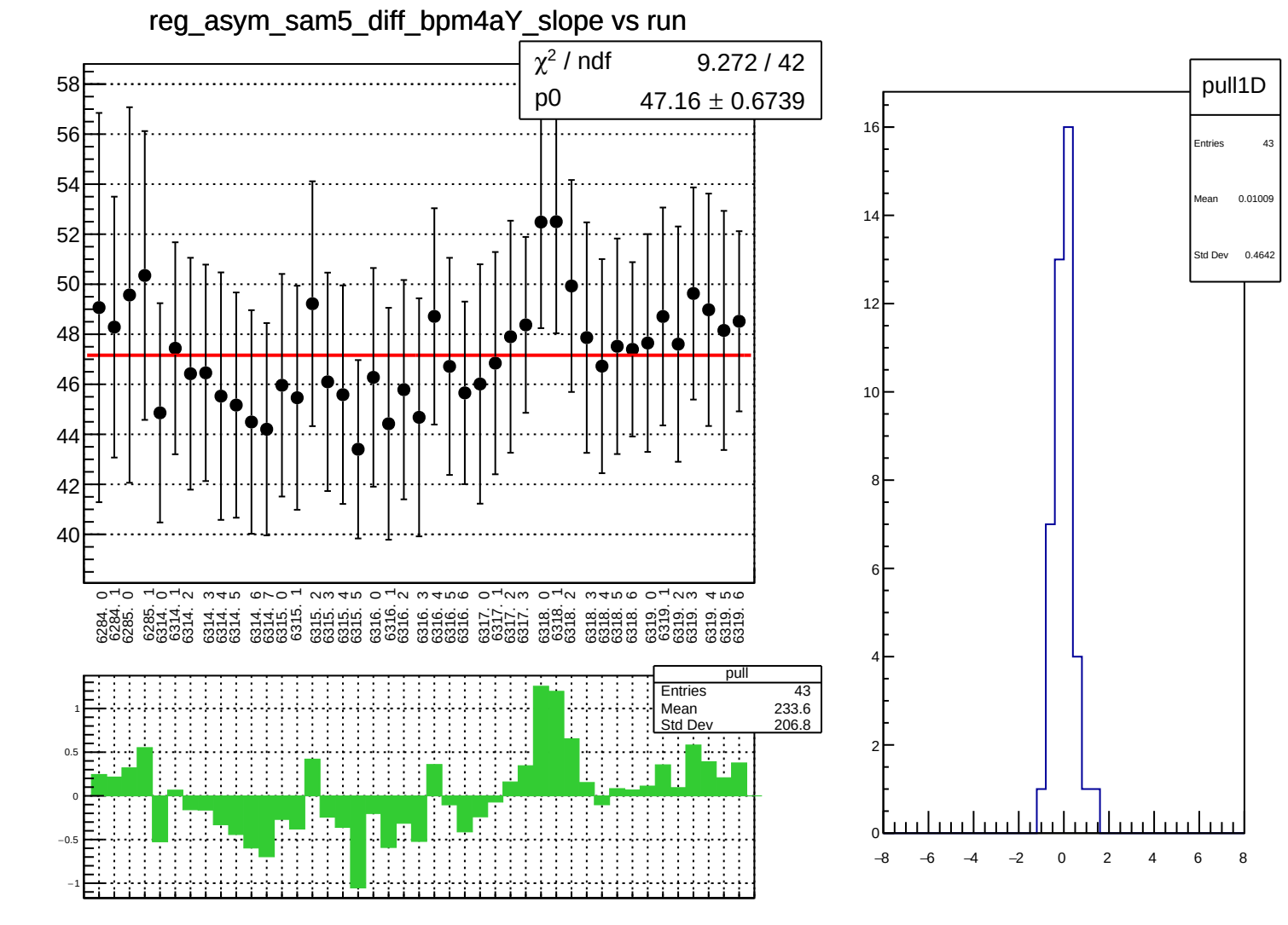

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.417 / 42
p0 267.3 ± 4.071
300
280
260
240
220
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 282.4
Std Dev 261.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.006587
Std Dev 0.2818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

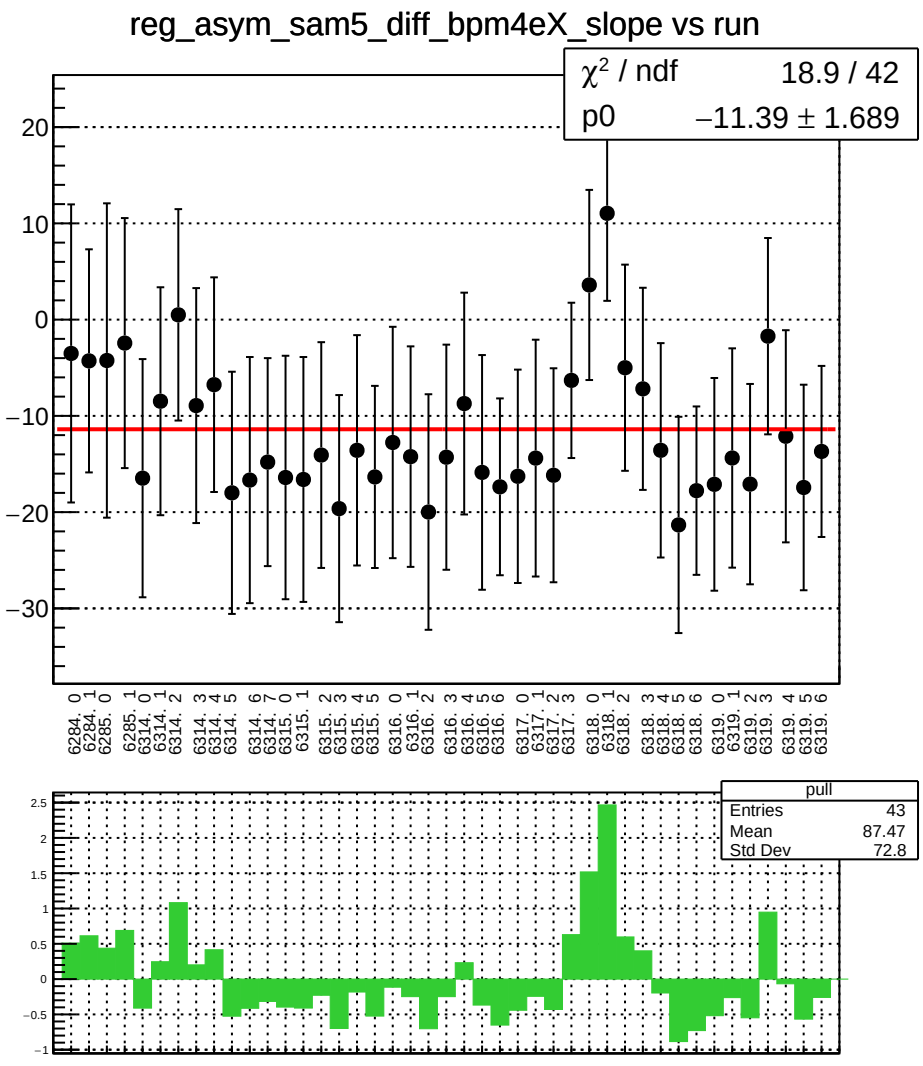

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 15.39 / 42
p0 −0.1152 ± 0.3198
pull
Entries 43
Mean 567.2
Std Dev 551.2
pull1D
Entries 43
Mean 0.006188
Std Dev 0.5982

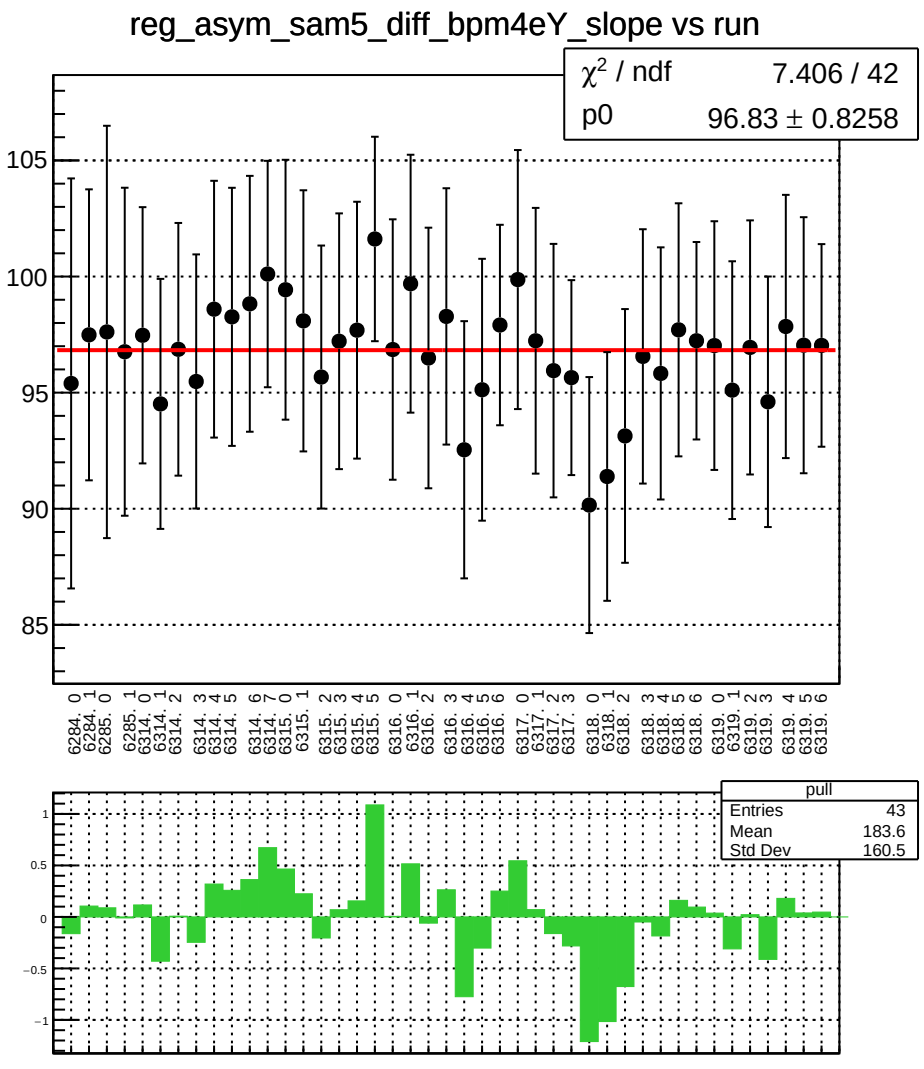
reg_asym_sam5_diff_bpm4aX_slope vs run

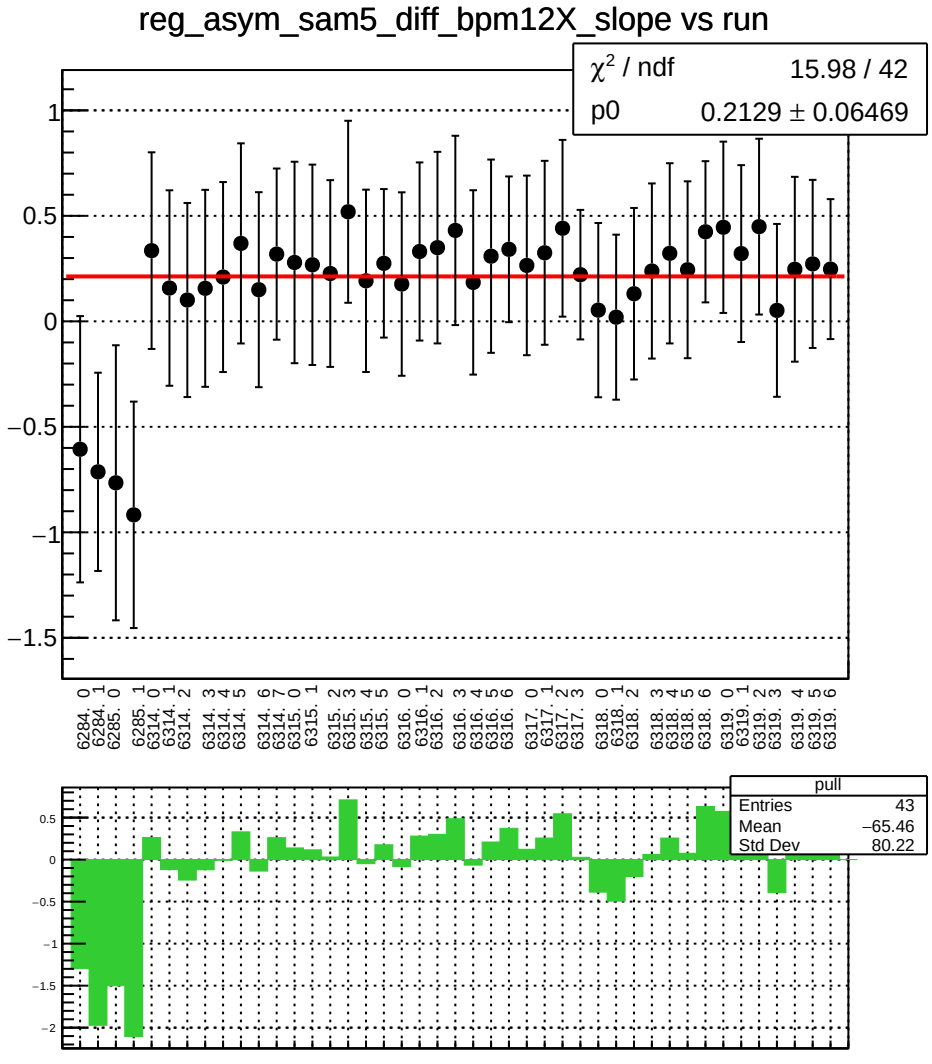


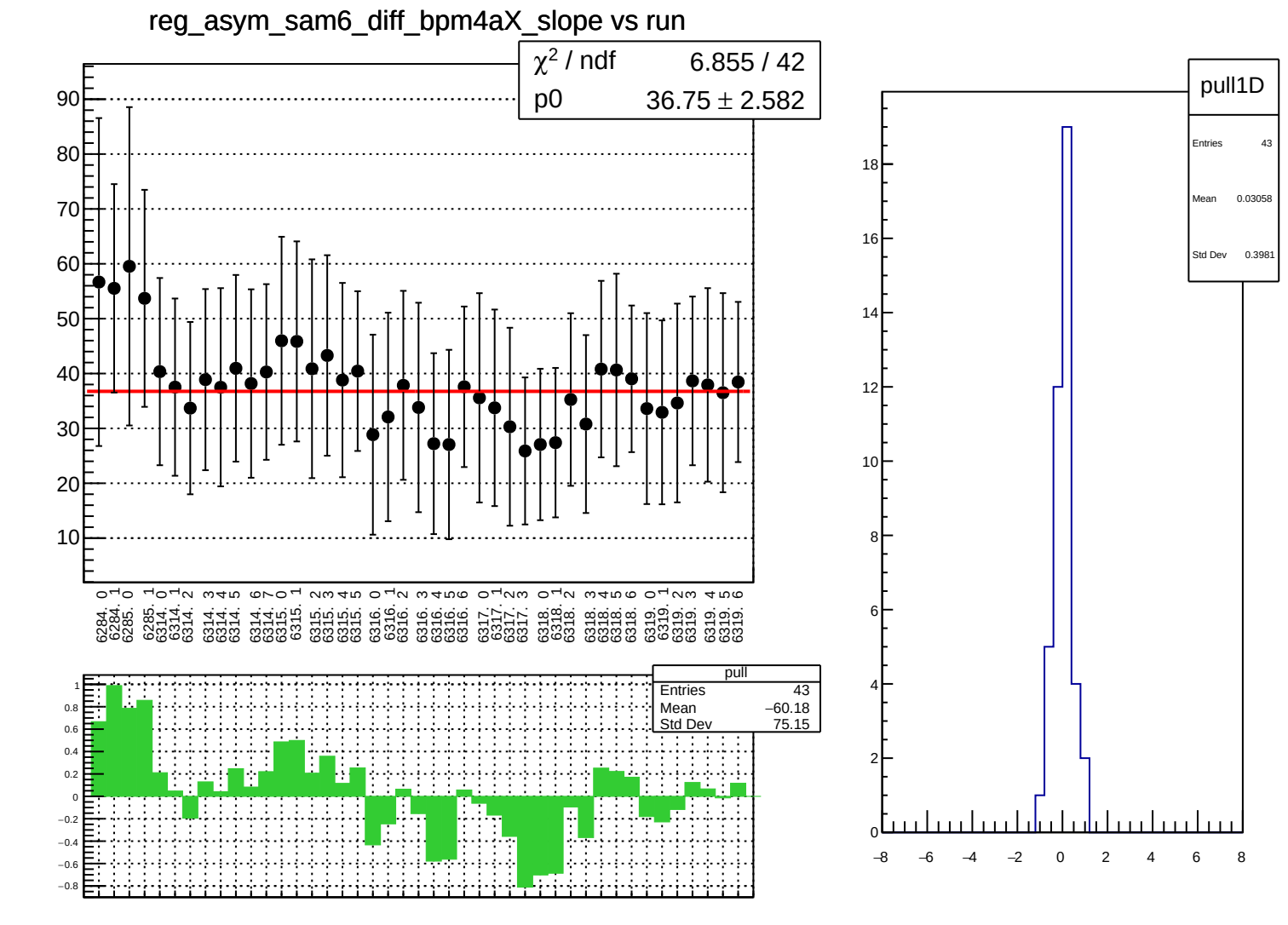


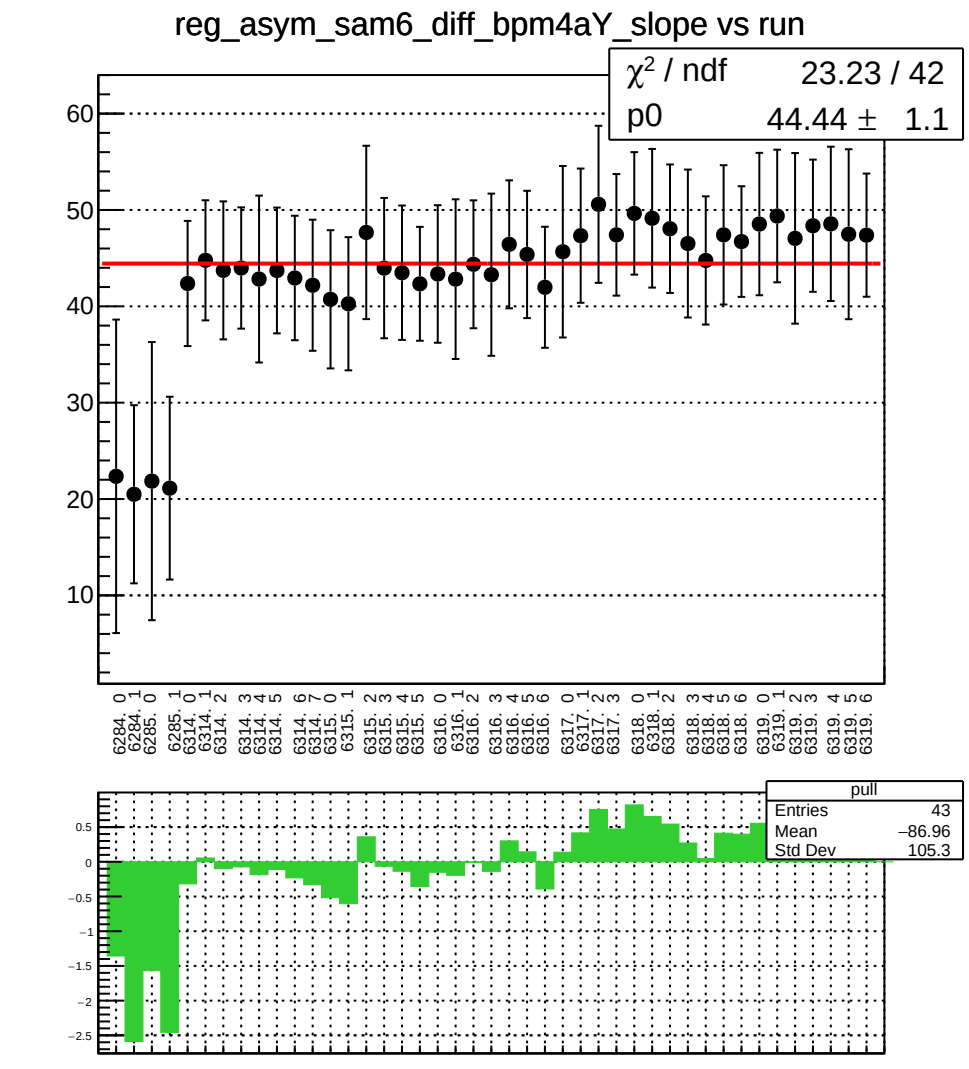

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 9.272 / 42
p0 47.16 ± 0.6739
pull
Entries 43
Mean 233.6
Std Dev 206.8
pull1D
Entries 43
Mean 0.01009
Std Dev 0.4642

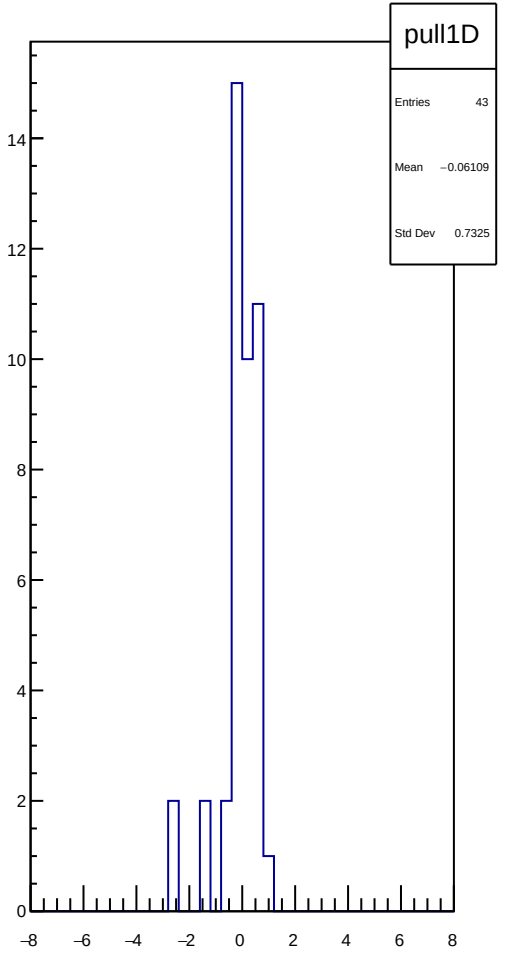

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 18.9 / 42
p0 −11.39 ± 1.689
20
10
0
−10
−20
−30
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 87.47
Std Dev 72.8
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01378
Std Dev 0.6628
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

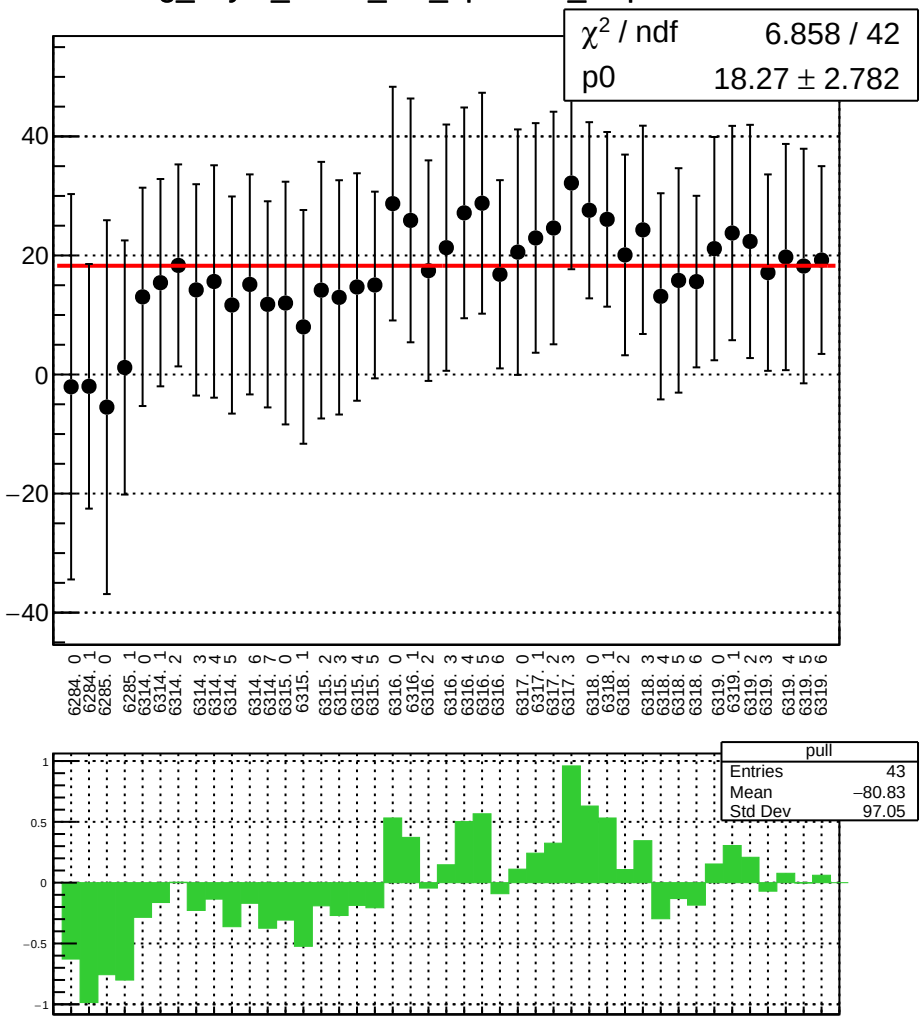

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.406 / 42
p0 96.83 ± 0.8258
105
100
95
90
85
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 183.6
Std Dev 160.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.007635
Std Dev 0.4149
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

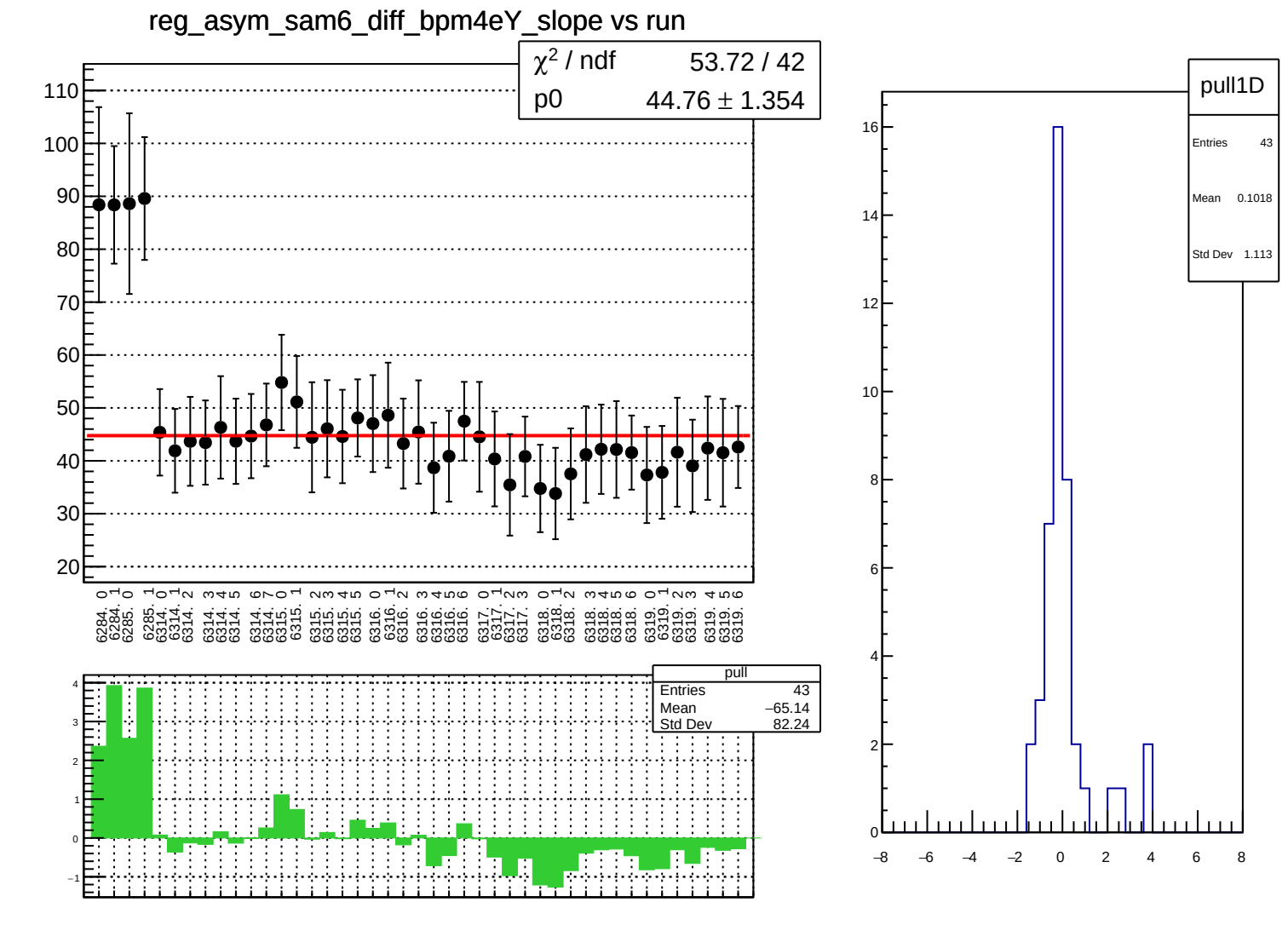

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 15.98 / 42
p0 0.2129 ± 0.06469
pull
Entries 43
Mean −65.46
Std Dev 80.22
pull1D
Entries 43
Mean −0.04168
Std Dev 0.6081

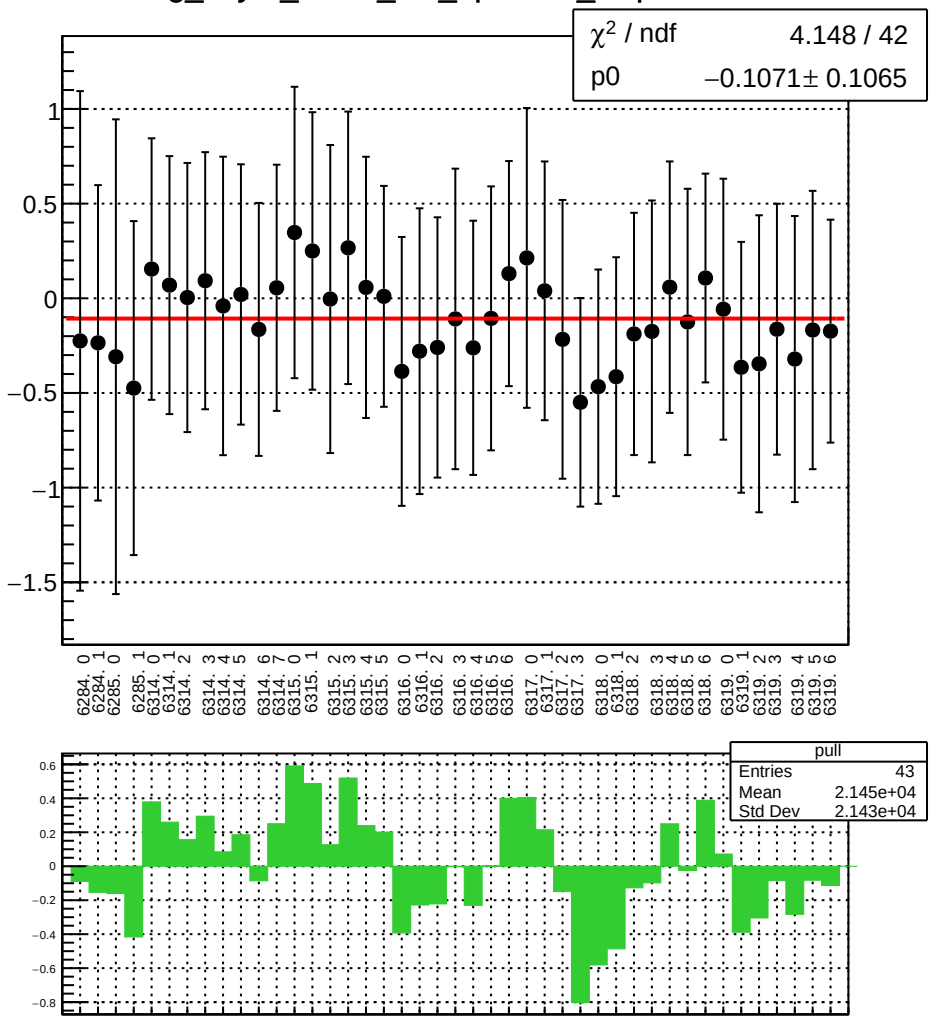

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 6.855 / 42
p0 36.75 ± 2.582
pull
Entries 43
Mean −60.18
Std Dev 75.15
pull1D
Entries 43
Mean 0.03058
Std Dev 0.3981

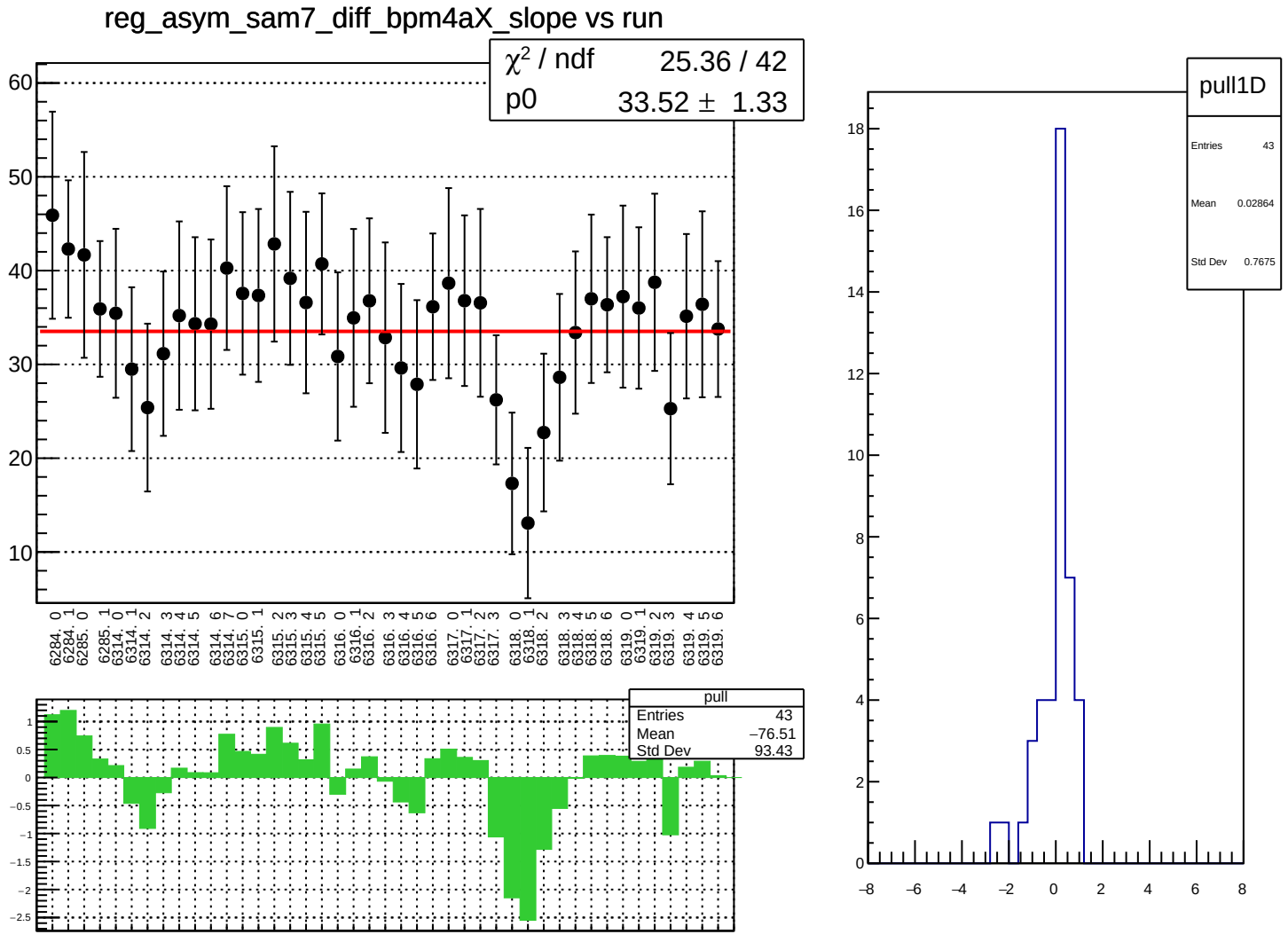

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 23.23 / 42
p0 44.44 ± 1.1
pull
Entries 43
Mean −86.96
Std Dev 105.3

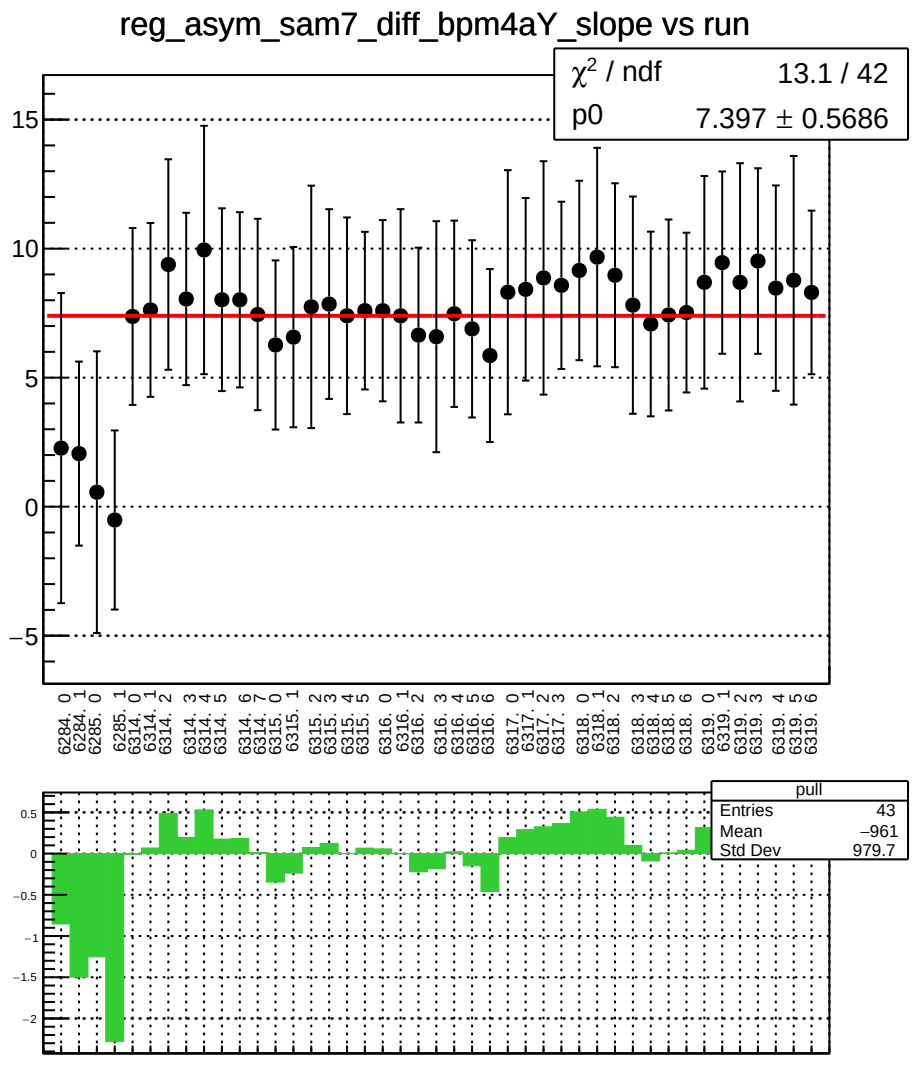

pull1D
Entries 43
Mean −0.06109
Std Dev 0.7325

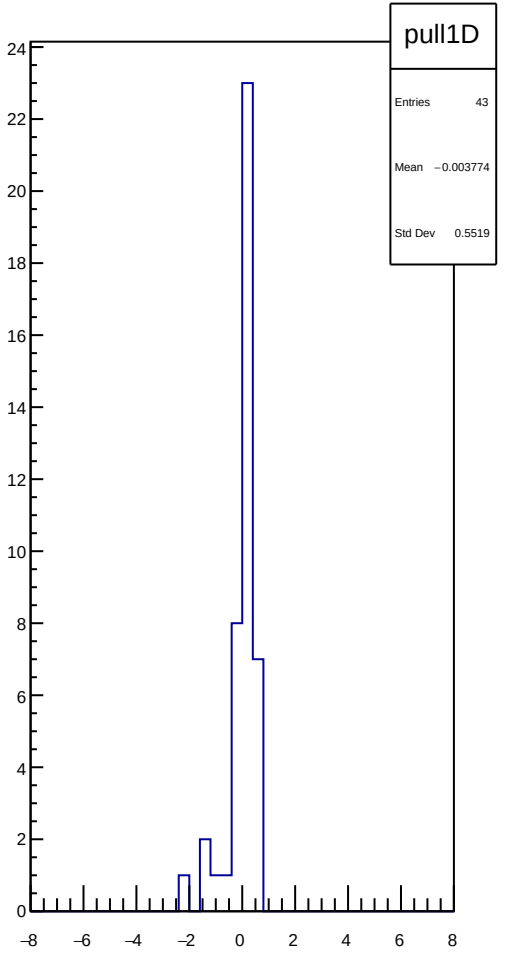

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.858 / 42
p0 18.27 ± 2.782
40
20
0
−20
−40
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −80.83
Std Dev 97.05
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.02819
Std Dev 0.3984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

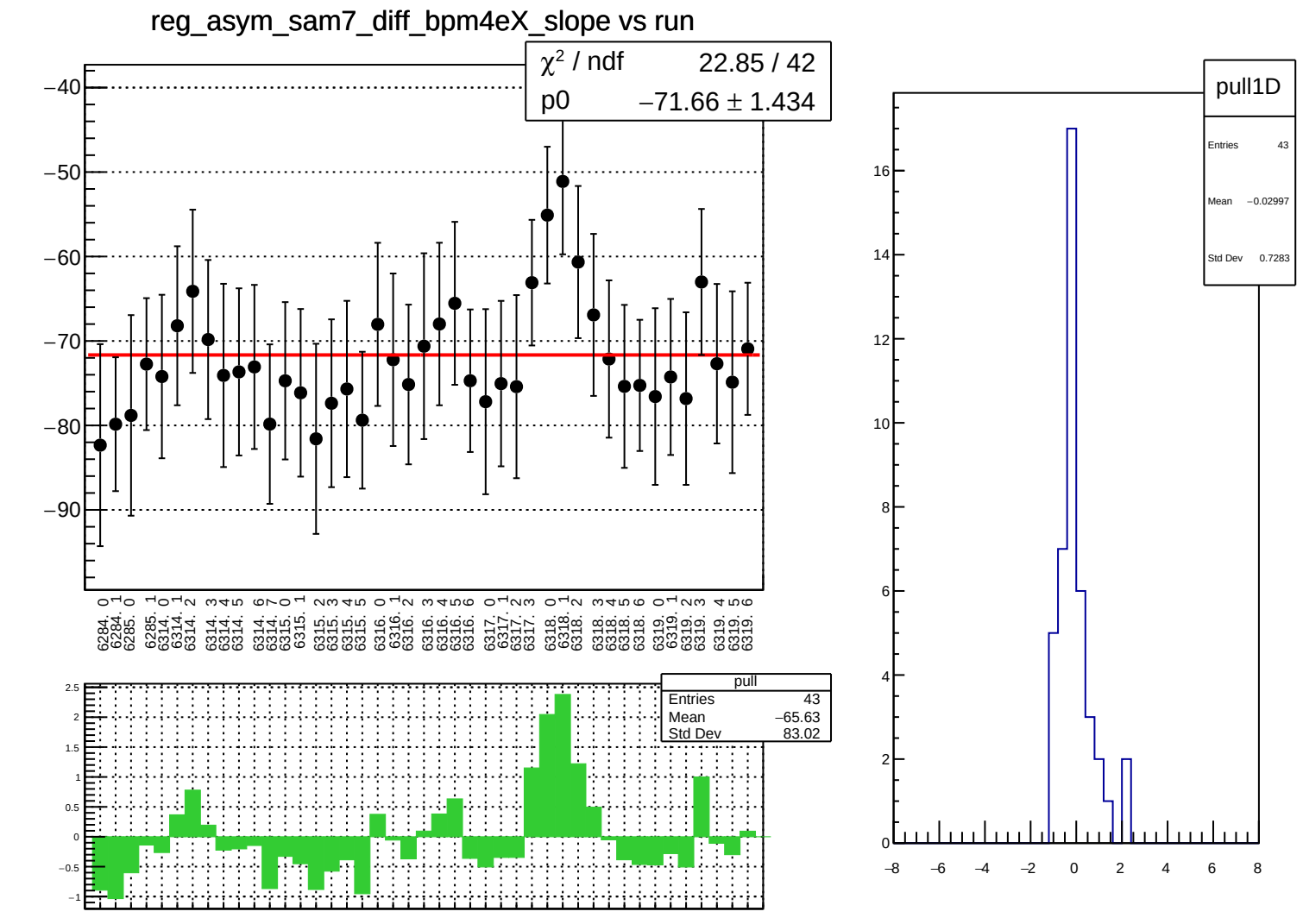

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 53.72 / 42
p0 44.76 ± 1.354
pull
Entries 43
Mean −65.14
Std Dev 82.24
pull1D
Entries 43
Mean 0.1018
Std Dev 1.113

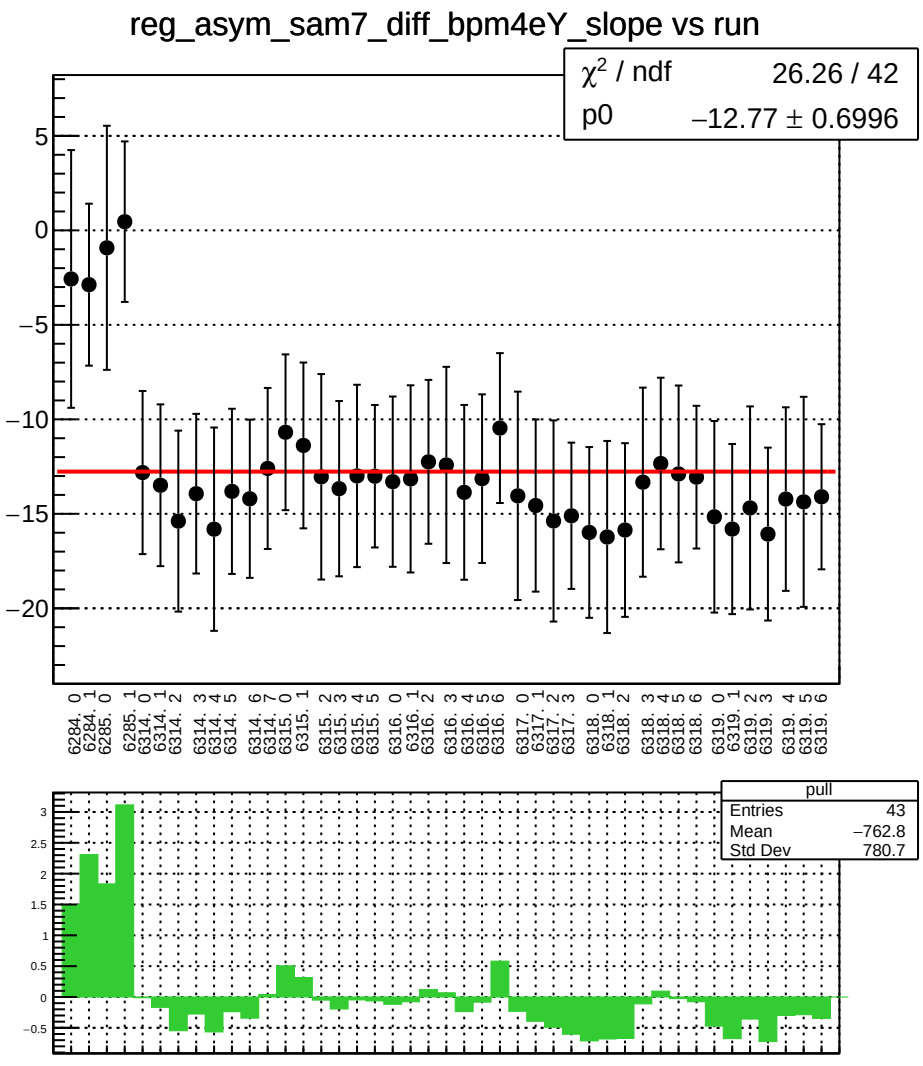

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 4.148 / 42
p0 −0.1071± 0.1065
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 2.145e+04
Std Dev 2.143e+04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −5.115e−05
Std Dev 0.3106
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

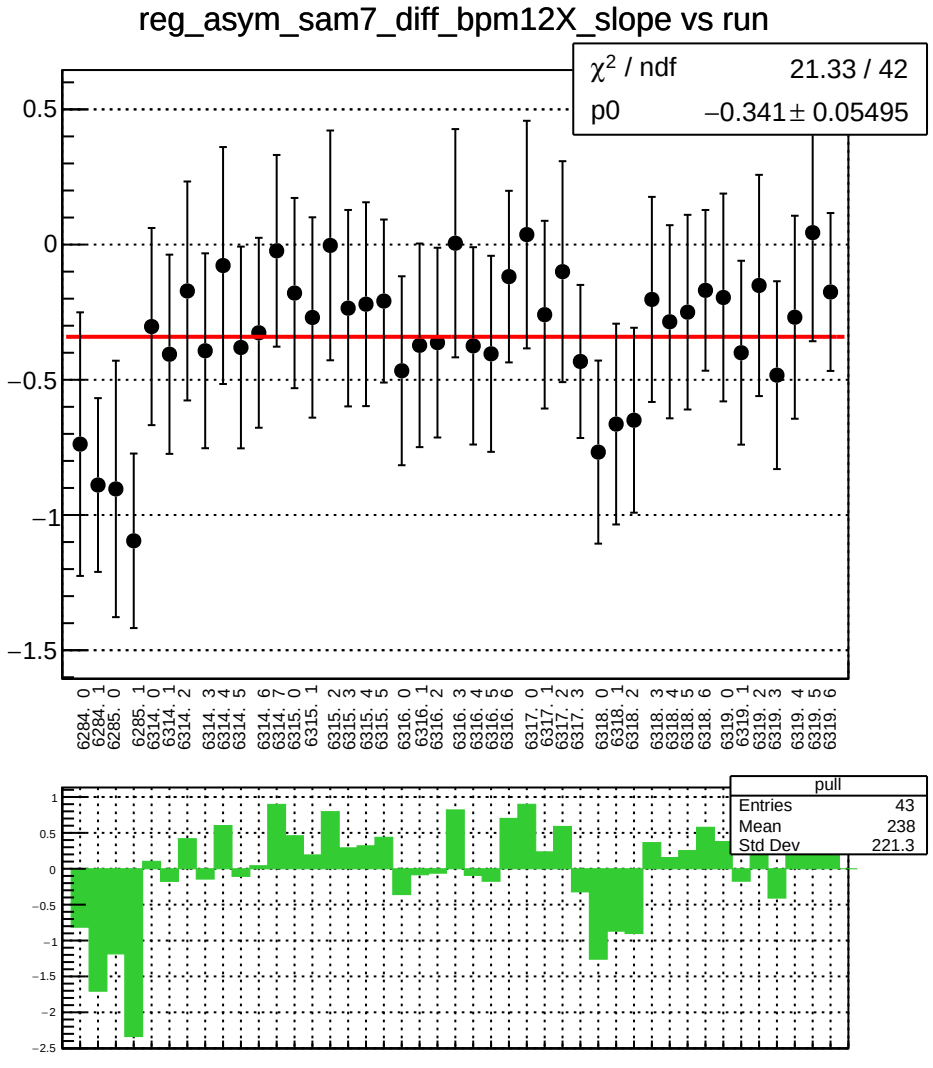

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 25.36 / 42
p0 33.52 ± 1.33
pull
Entries 43
Mean −76.51
Std Dev 93.43
pull1D
Entries 43
Mean 0.02864
Std Dev 0.7675

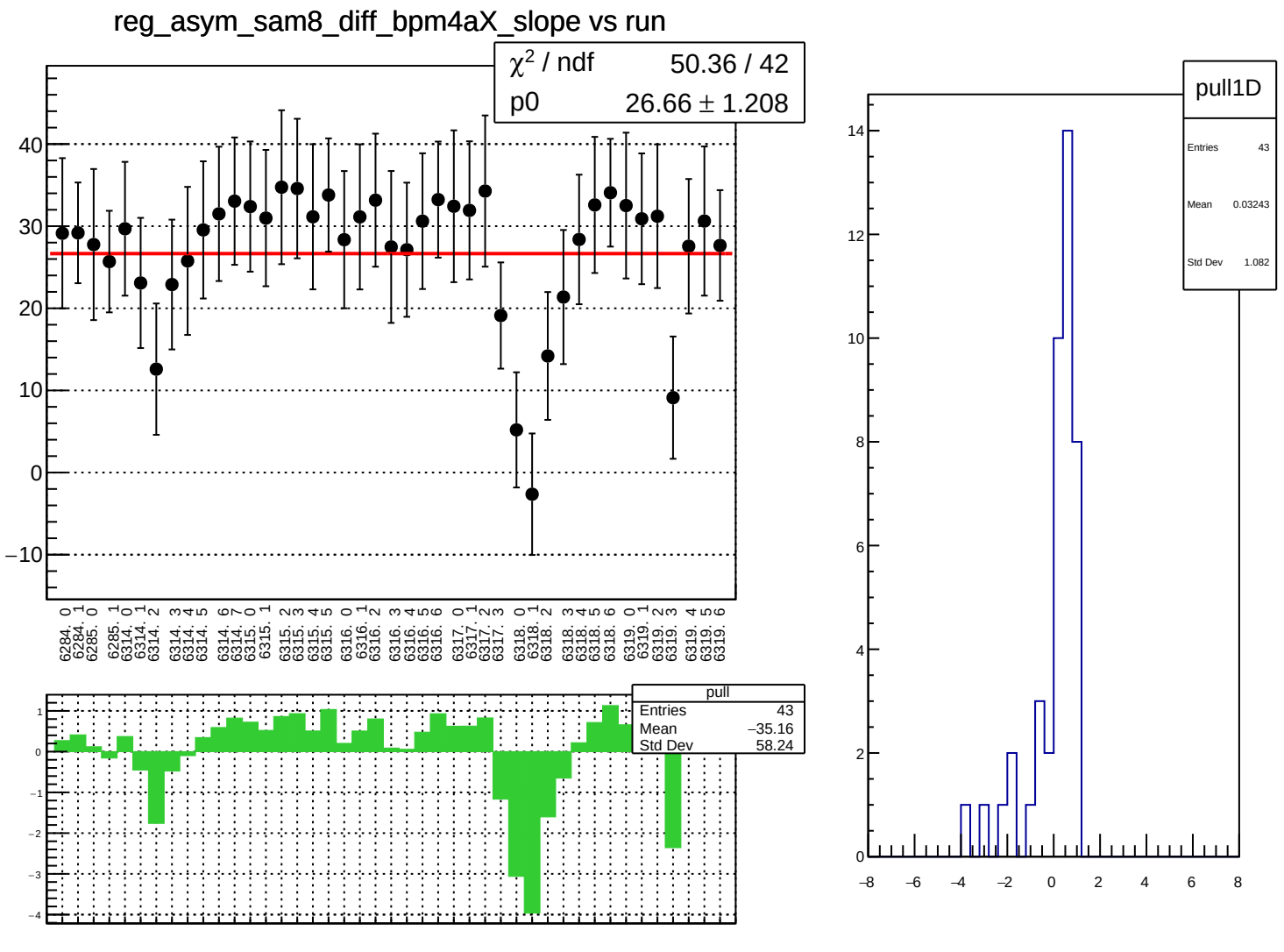

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 13.1 / 42
p0 7.397 ± 0.5686
15
10
5
0
−5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −961
Std Dev 979.7
0.5
0
−0.5
−1
−1.5
−2

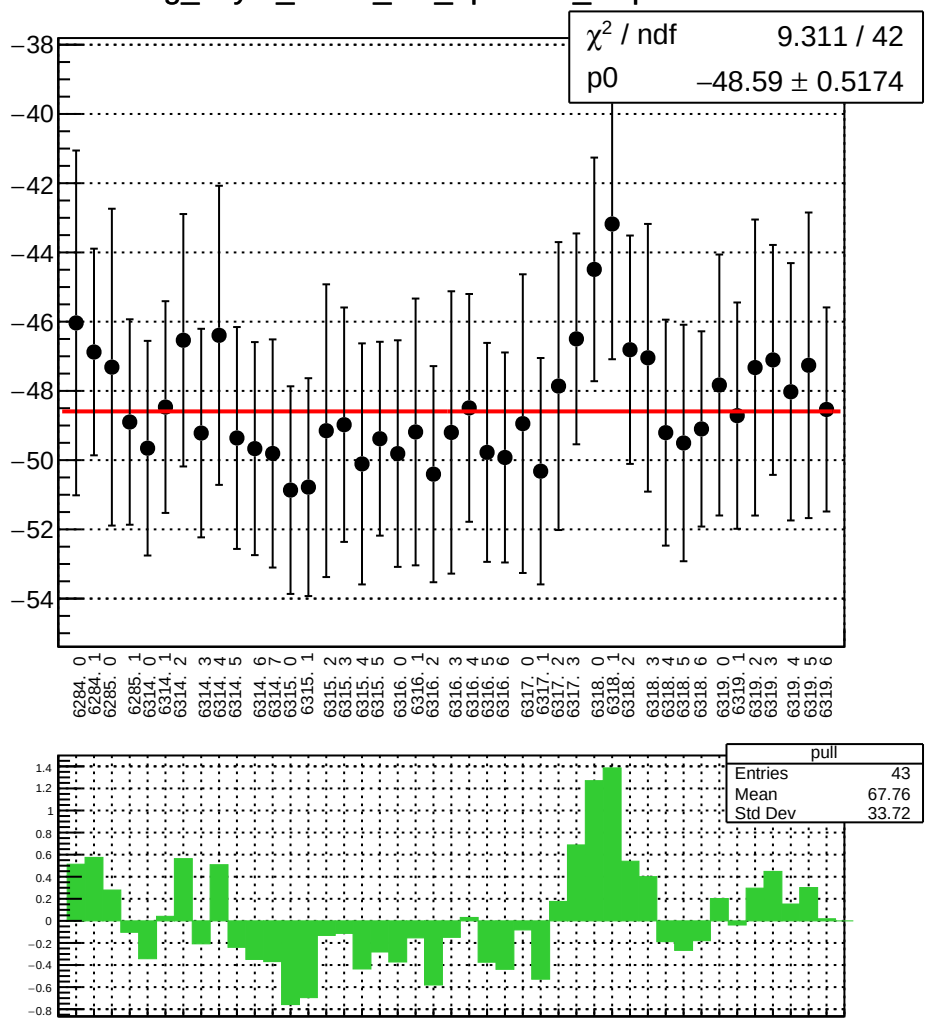

pull1D
Entries 43
Mean −0.003774
Std Dev 0.5519
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

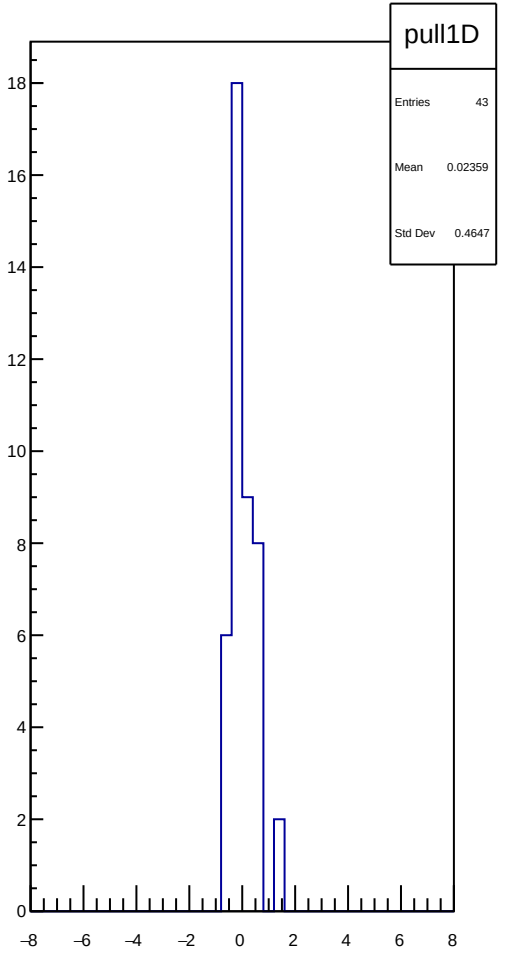

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 22.85 / 42
p0 −71.66 ± 1.434
−40
−50
−60
−70
−80
−90
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −65.63
Std Dev 83.02
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.02997
Std Dev 0.7283
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

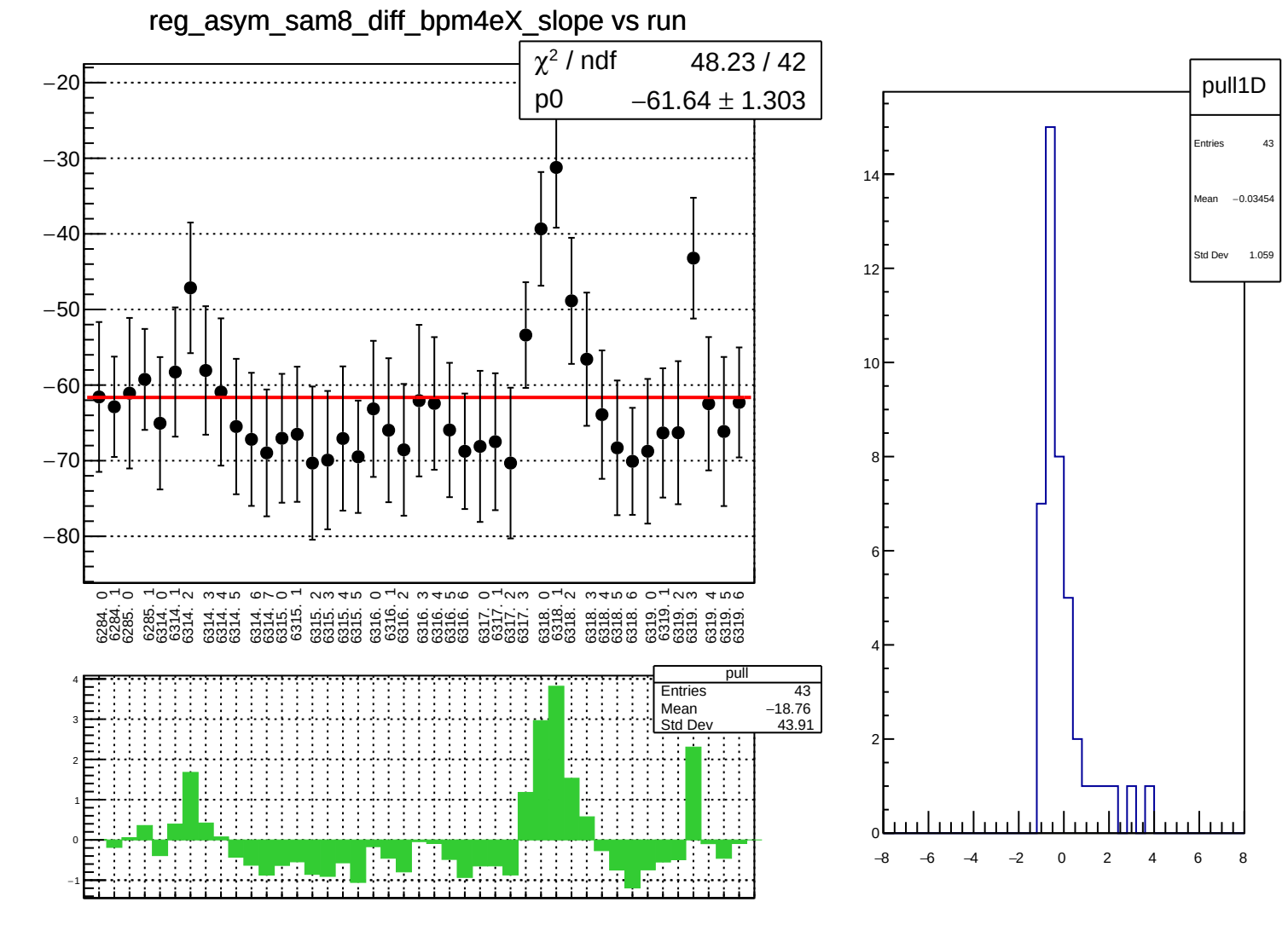

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 26.26 / 42
p0 −12.77 ± 0.6996
5
0
−5
−10
−15
−20
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −762.8
Std Dev 780.7
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean 0.006791
Std Dev 0.7814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

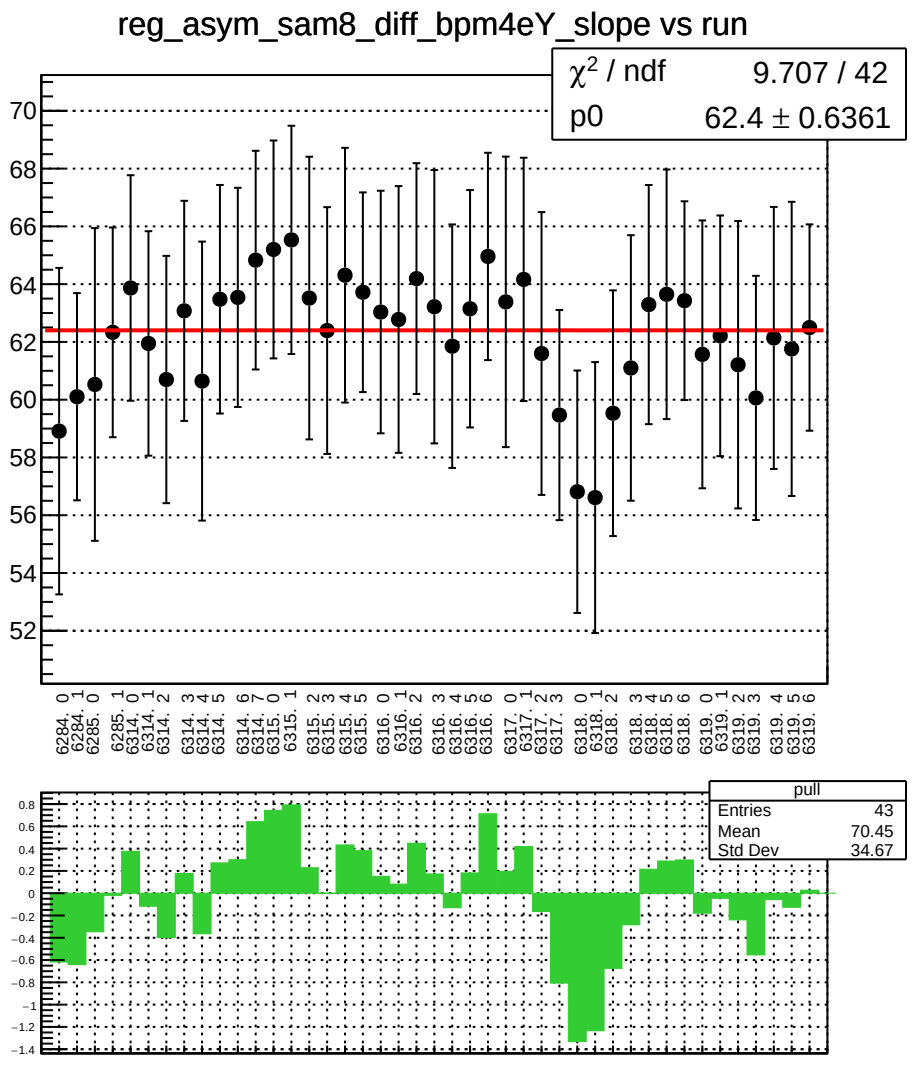

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 21.33 / 42
p0 −0.341 ± 0.05495
pull
Entries 43
Mean 238
Std Dev 221.3
pull1D
Entries 43
Mean 0.01266
Std Dev 0.7042

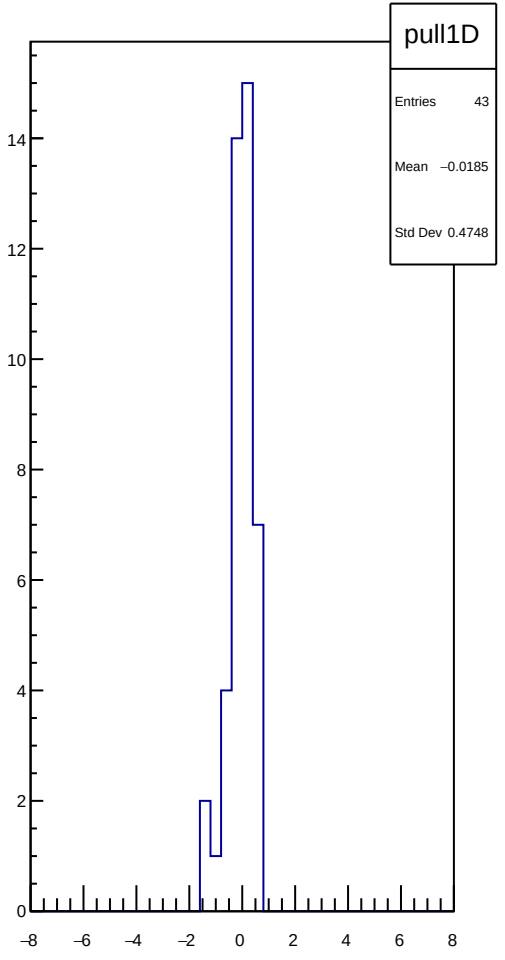

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 50.36 / 42
p0 26.66 ± 1.208
pull
Entries 43
Mean −35.16
Std Dev 58.24
pull1D
Entries 43
Mean 0.03243
Std Dev 1.082

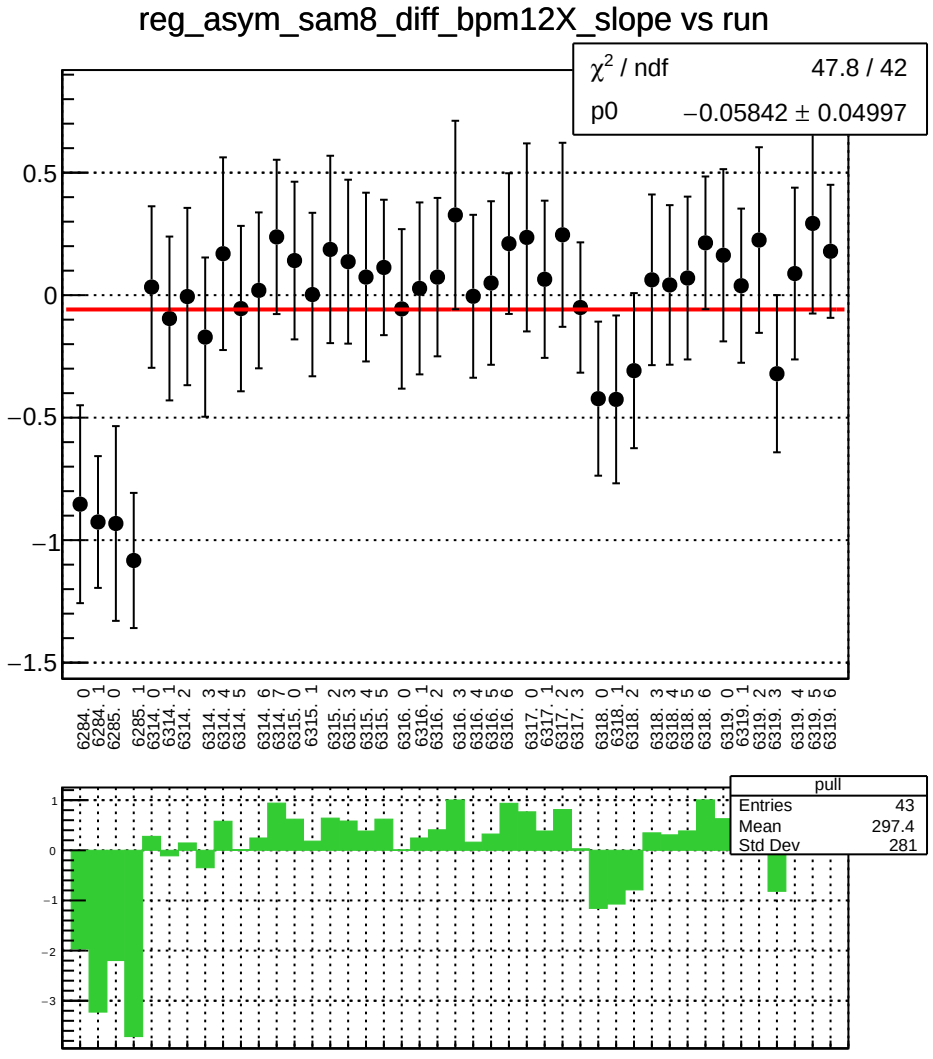

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 9.311 / 42
p0 −48.59 ± 0.5174
pull
Entries 43
Mean 67.76
Std Dev 33.72

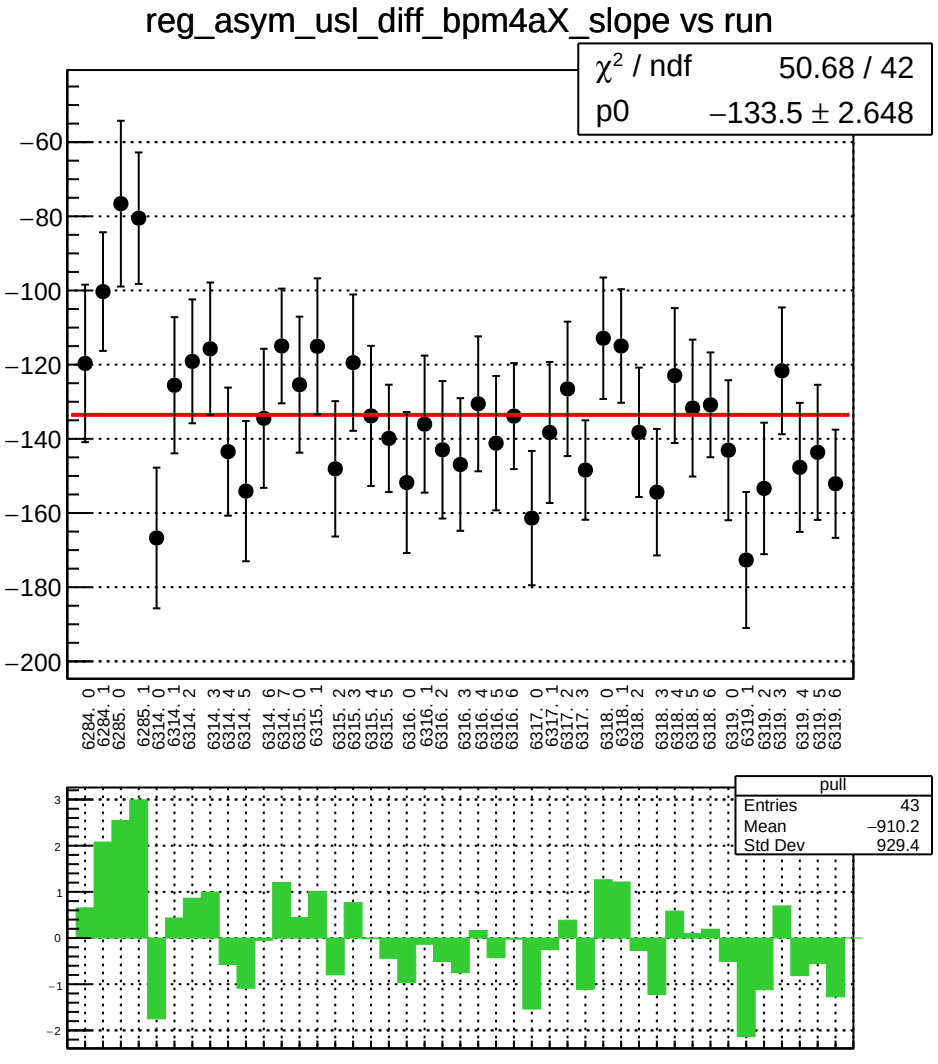

pull1D
Entries 43
Mean 0.02359
Std Dev 0.4647

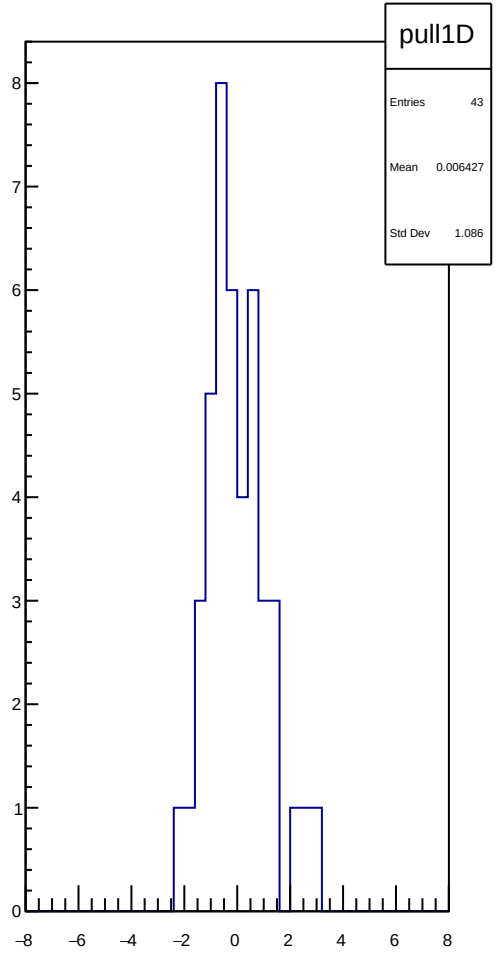

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 48.23 / 42
p0 −61.64 ± 1.303
−20
−30
−40
−50
−60
−70
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −18.76
Std Dev 43.91
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.03454
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

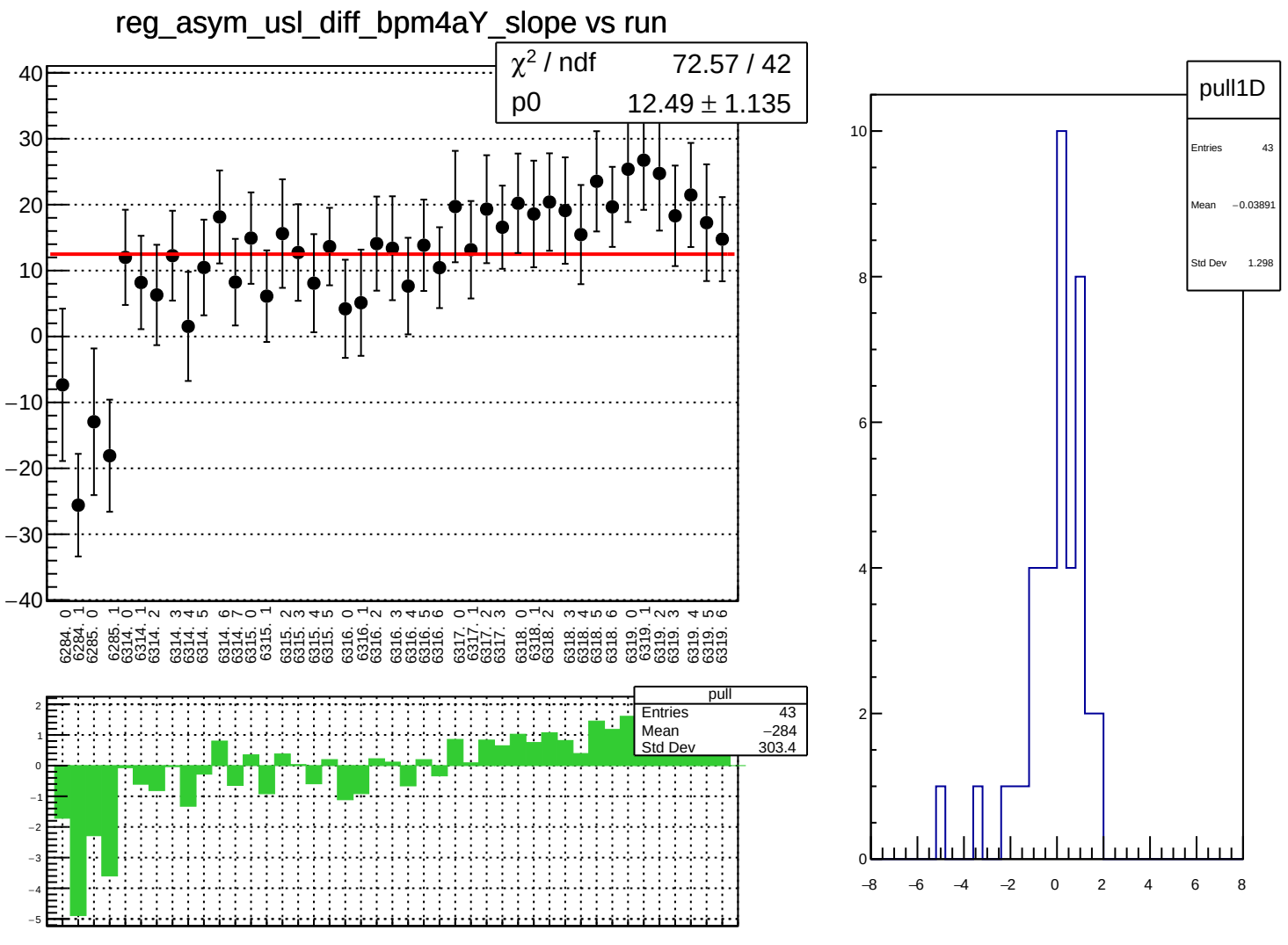

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 9.707 / 42
p0 62.4 ± 0.6361
pull
Entries 43
Mean 70.45
Std Dev 34.67

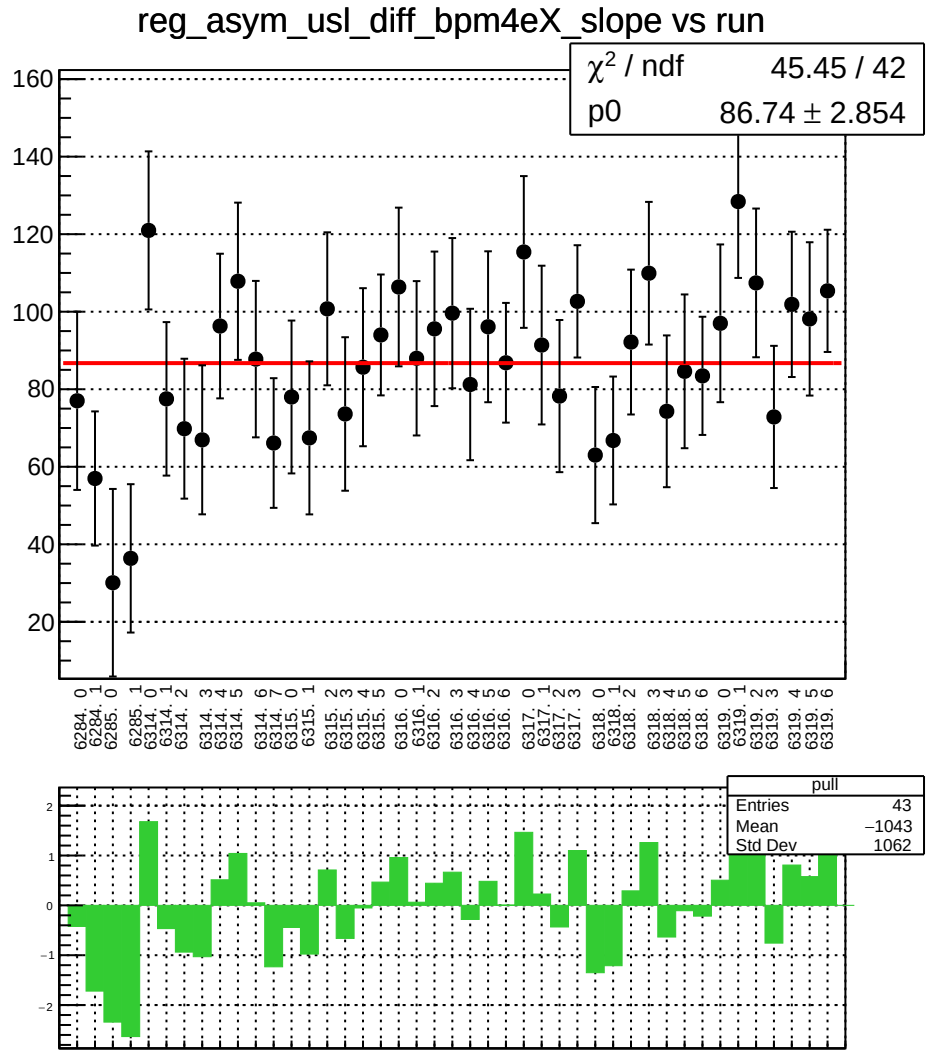

pull1D
Entries 43
Mean −0.0185
Std Dev 0.4748

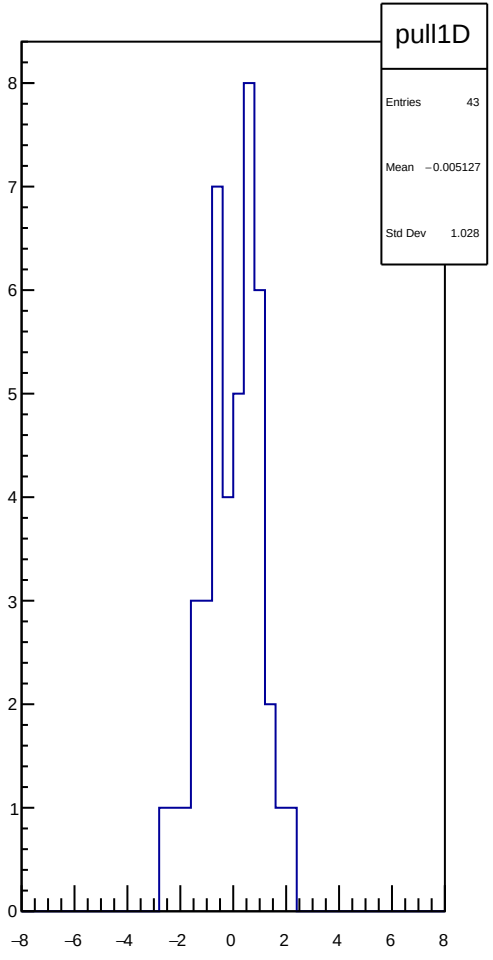

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 47.8 / 42
p0 −0.05842 ± 0.04997
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 297.4
Std Dev 281
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.02068
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

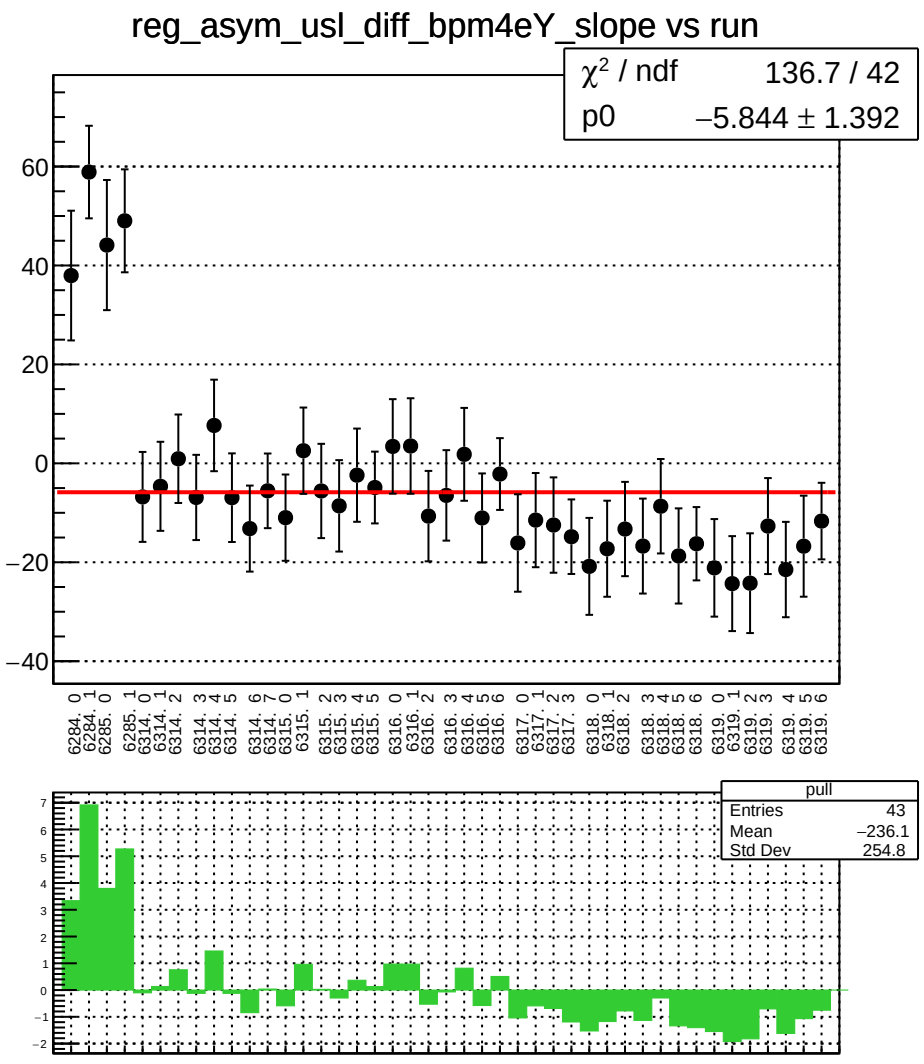

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 50.68 / 42
p0 −133.5 ± 2.648
pull
Entries 43
Mean −910.2
Std Dev 929.4

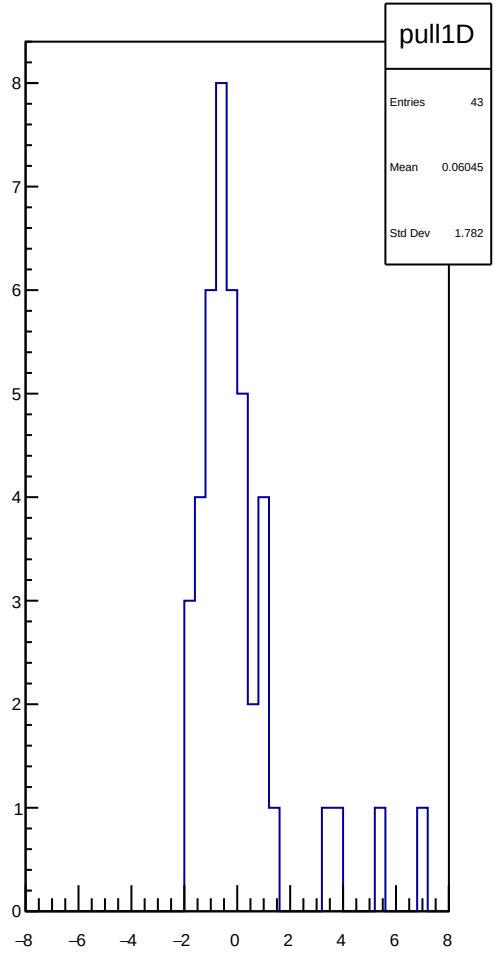

pull1D
Entries 43
Mean 0.006427
Std Dev 1.086

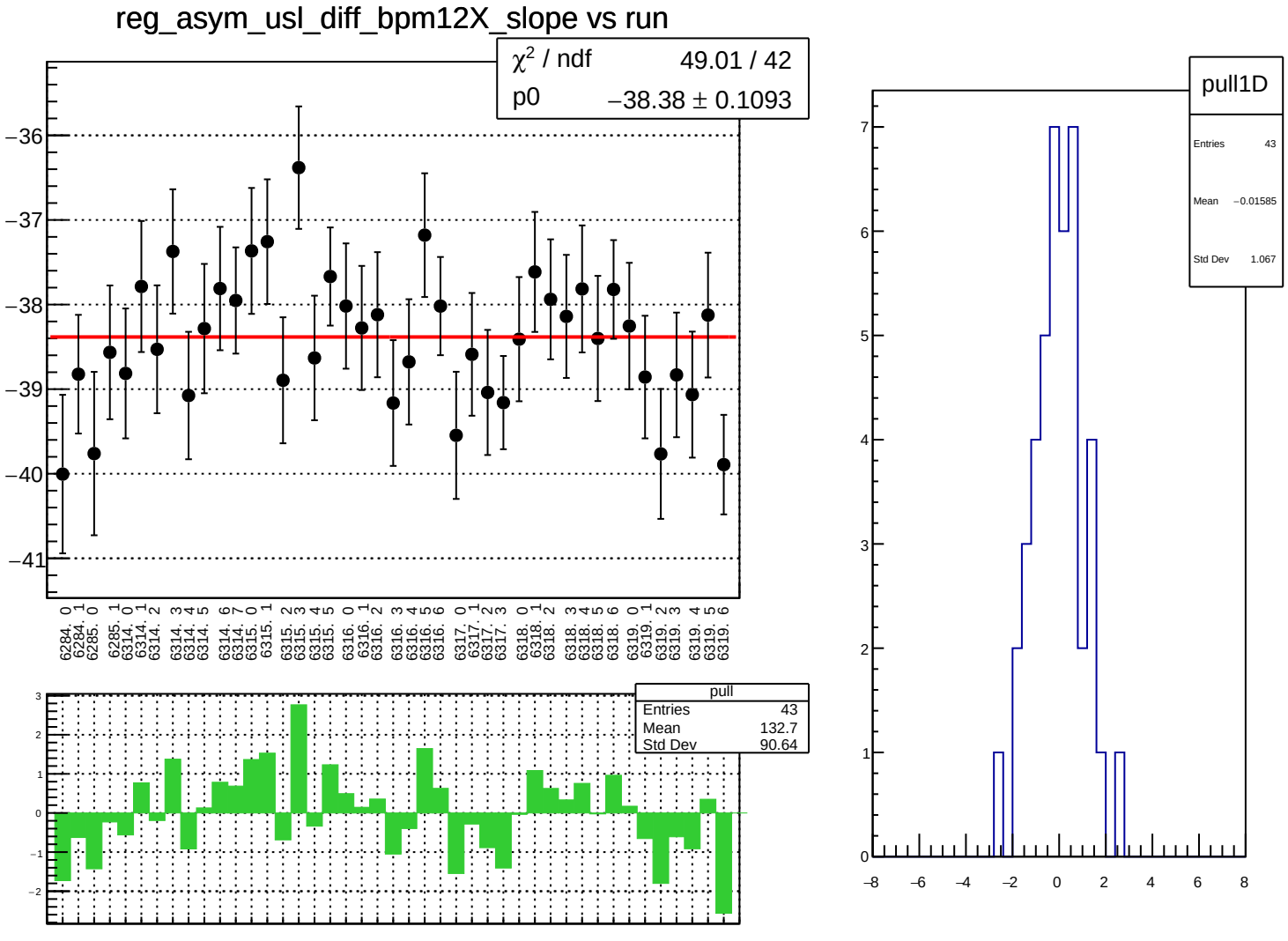

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 72.57 / 42
p0 12.49 ± 1.135
pull
Entries 43
Mean −284
Std Dev 303.4
pull1D
Entries 43
Mean −0.03891
Std Dev 1.298

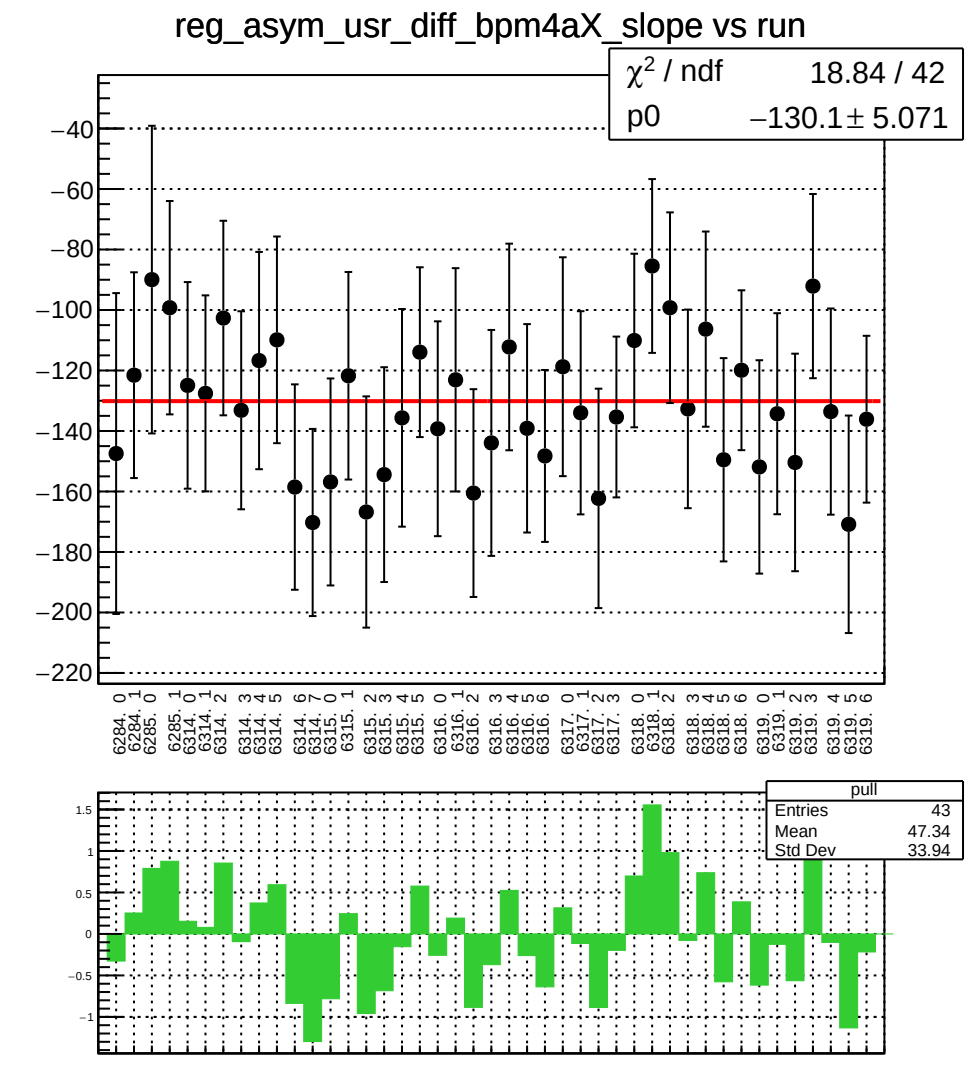

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 45.45 / 42
p0 86.74 ± 2.854
160
140
120
100
80
60
40
20
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −1043
Std Dev 1062
2
1
0
−1
−2

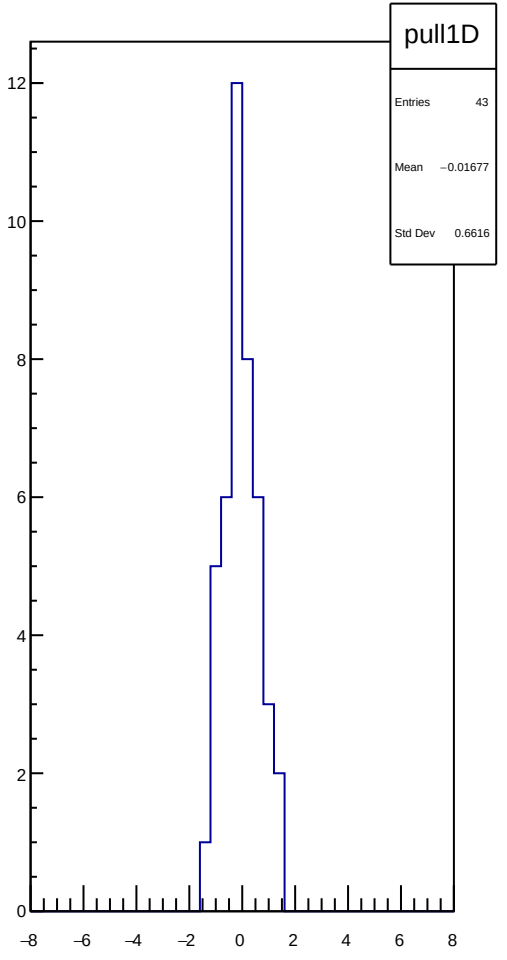

pull1D
Entries 43
Mean −0.005127
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

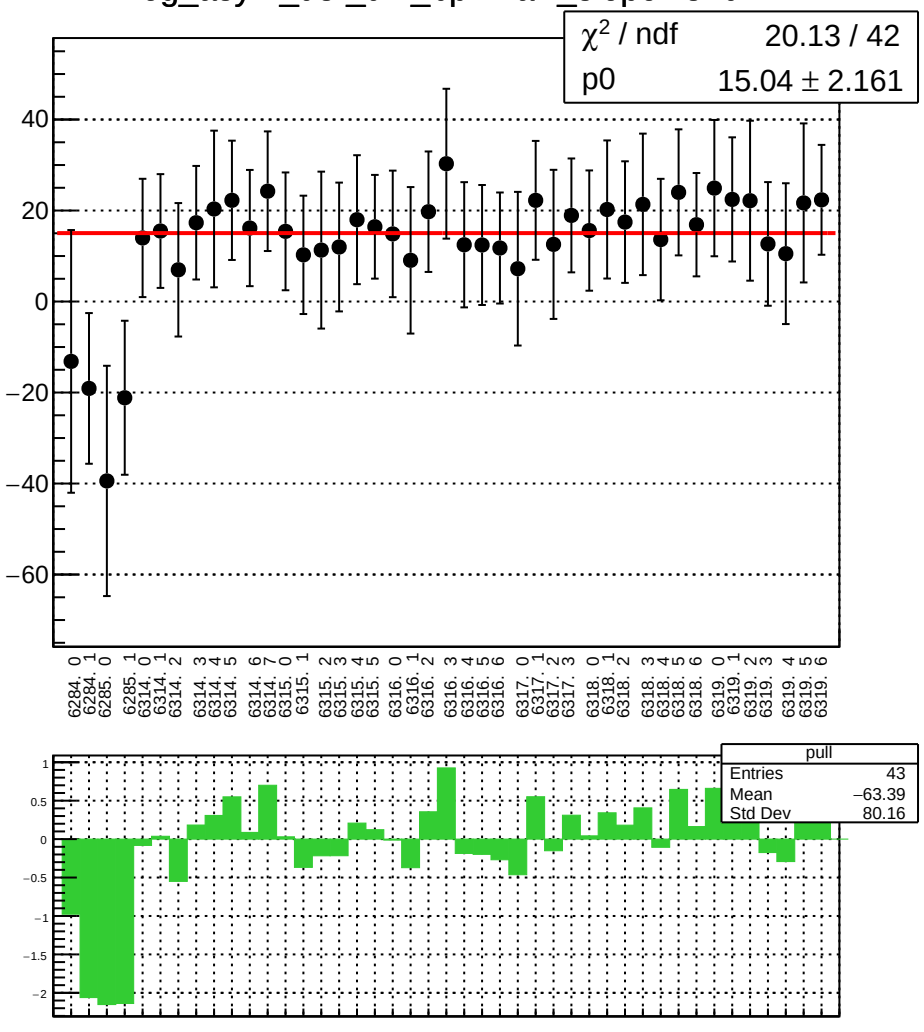

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 136.7 / 42
p0 −5.844 ± 1.392
60
40
20
0
−20
−40
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −236.1
Std Dev 254.8
7
6
5
4
3
2
1
0
−1
−2

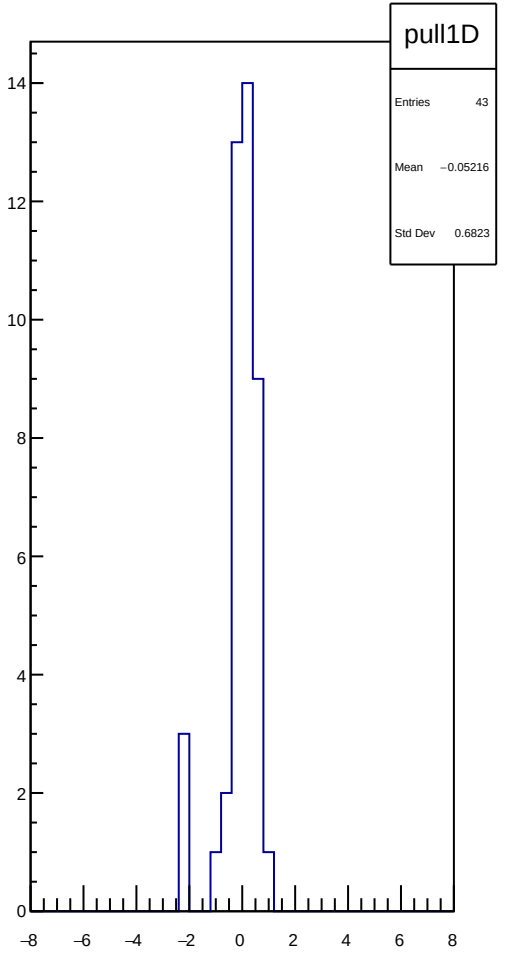

pull1D
Entries 43
Mean 0.06045
Std Dev 1.782
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

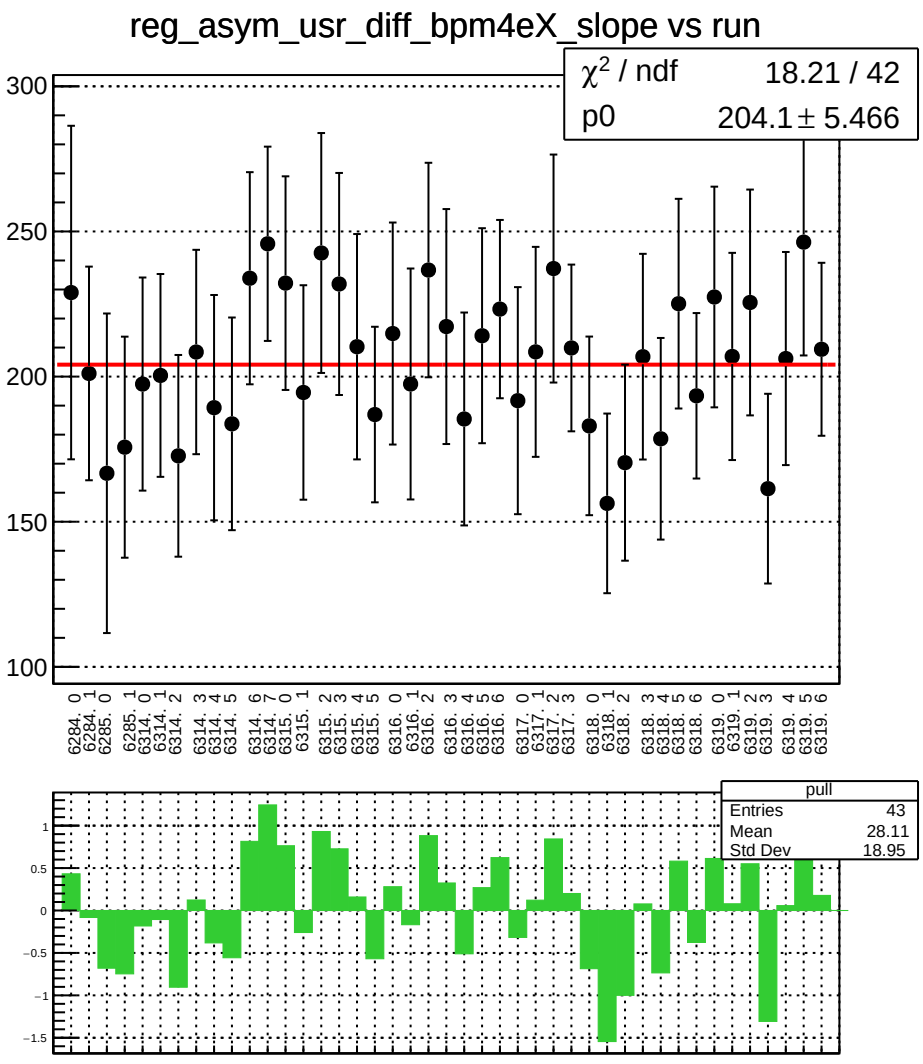

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 49.01 / 42
p0 −38.38 ± 0.1093
−36
−37
−38
−39
−40
−41
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 132.7
Std Dev 90.64
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01585
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

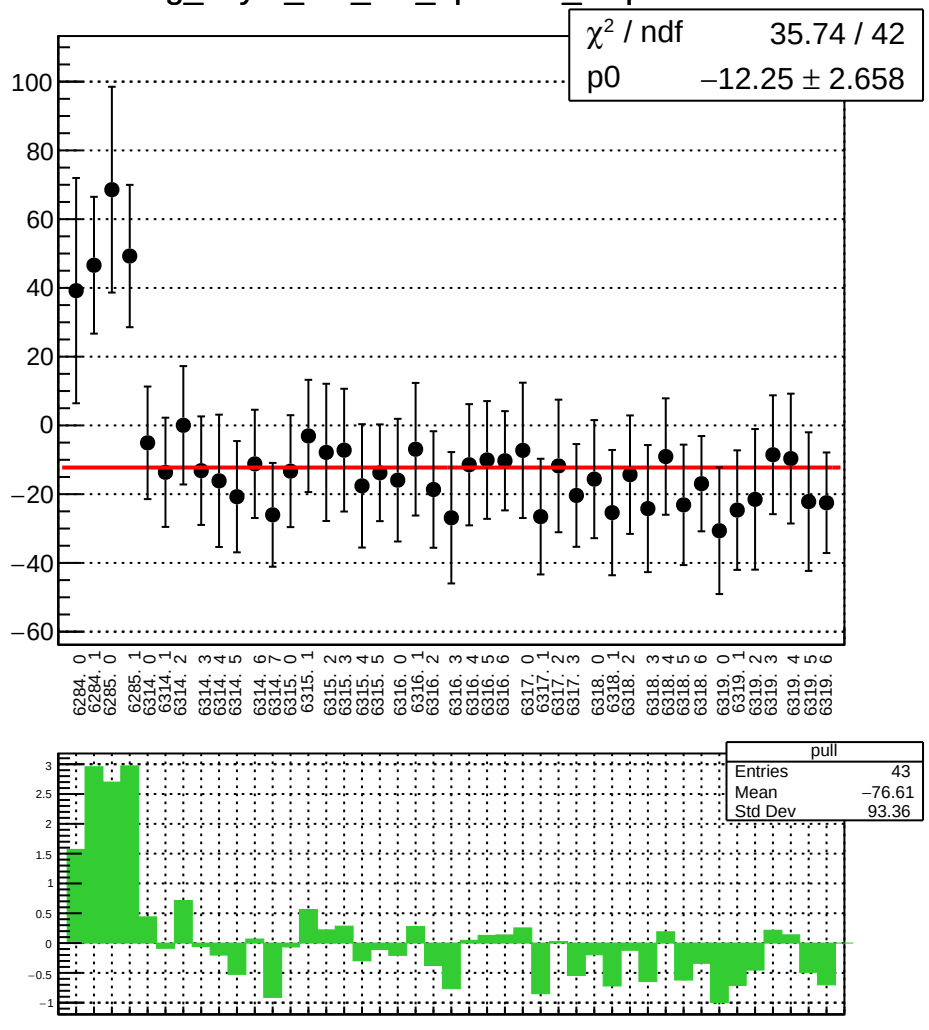

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 18.84 / 42
p0 −130.1 ± 5.071
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 47.34
Std Dev 33.94
1.5
1
0.5
0
−0.5
−1

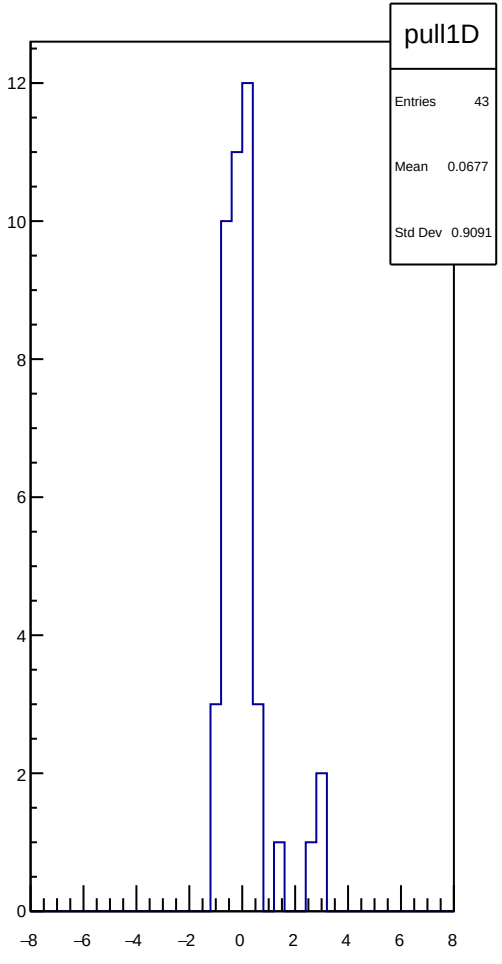

pull1D
Entries 43
Mean −0.01677
Std Dev 0.6616
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

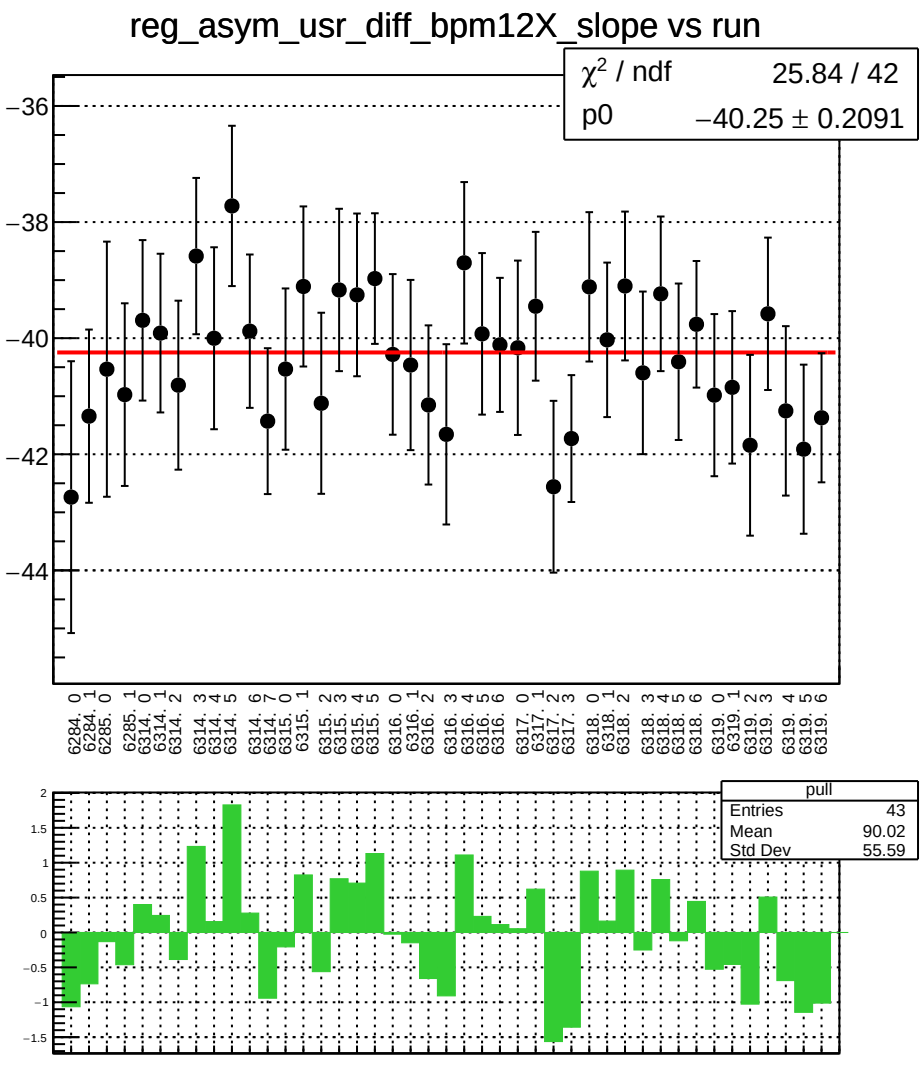

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 20.13 / 42
p0 15.04 ± 2.161
40
20
0
−20
−40
−60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −63.39
Std Dev 80.16
1
0.5
0
−0.5
−1
−1.5
−2

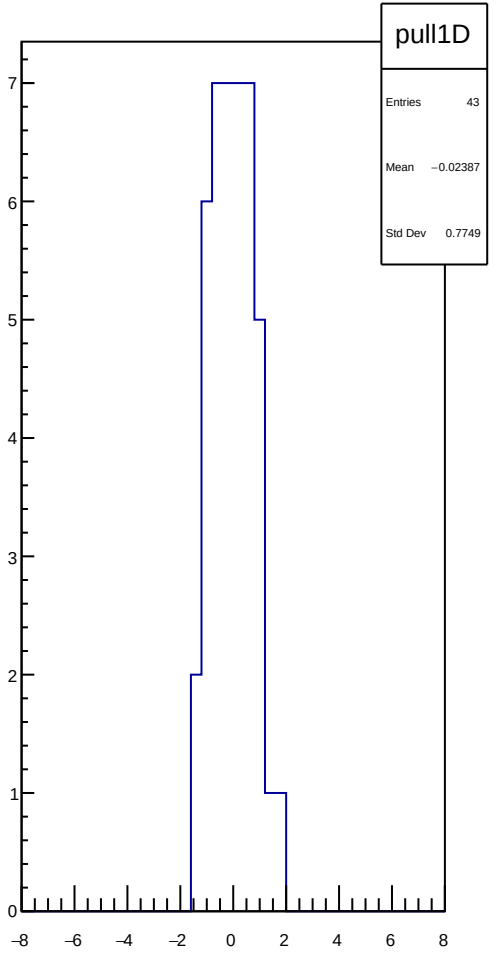

pull1D
Entries 43
Mean −0.05216
Std Dev 0.6823
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

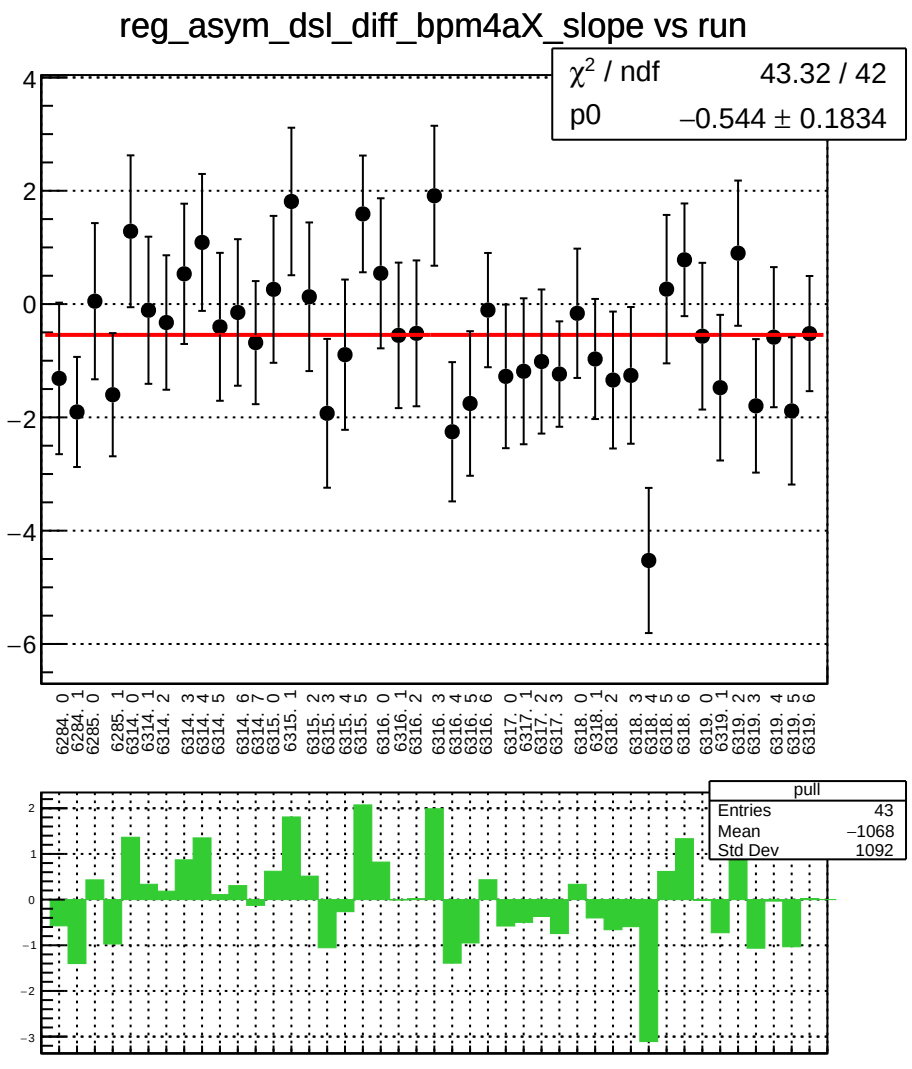

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 18.21 / 42
p0 204.1 ± 5.466
300
250
200
150
100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 28.11
Std Dev 18.95
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01968
Std Dev 0.6504
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

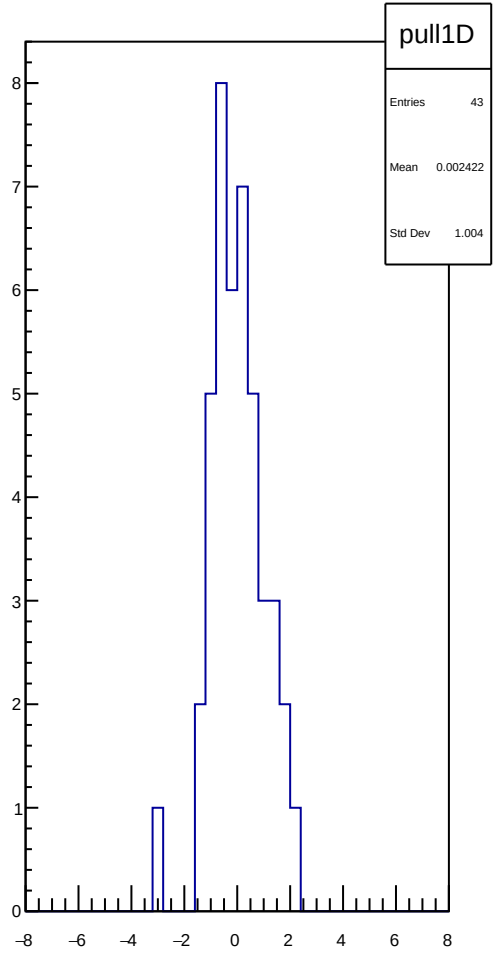

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 35.74 / 42
p0 −12.25 ± 2.658
pull
Entries 43
Mean −76.61
Std Dev 93.36

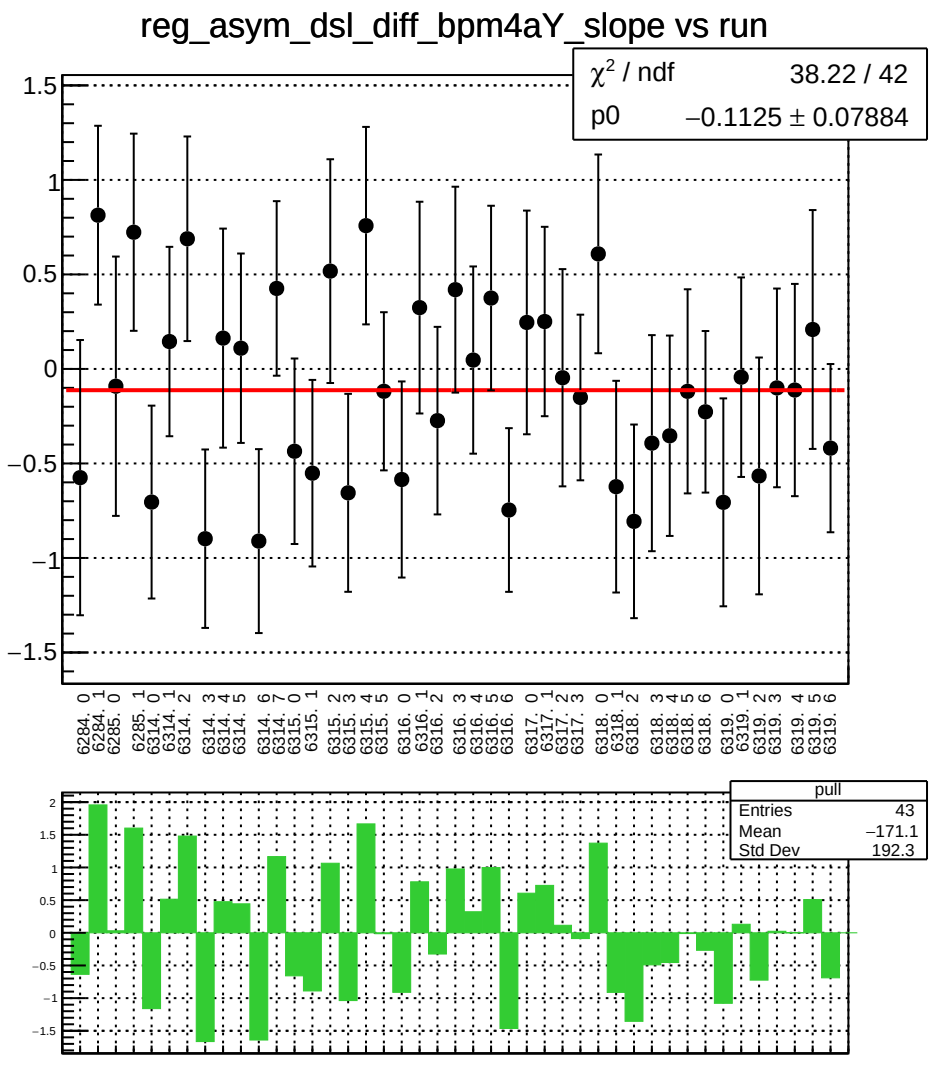

pull1D
Entries 43
Mean 0.0677
Std Dev 0.9091

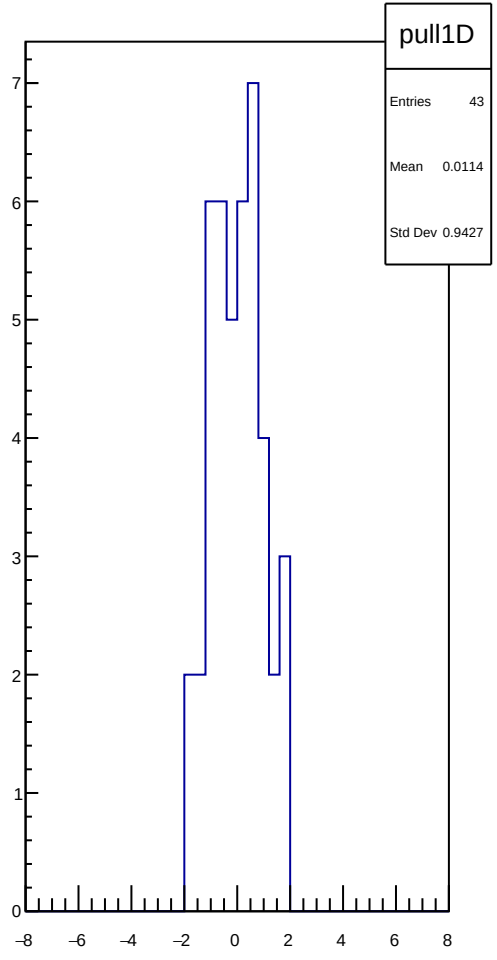

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 25.84 / 42
p0 −40.25 ± 0.2091
−36
−38
−40
−42
−44
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 90.02
Std Dev 55.59
2
1.5
1
0.5
0
−0.5
−1
−1.5

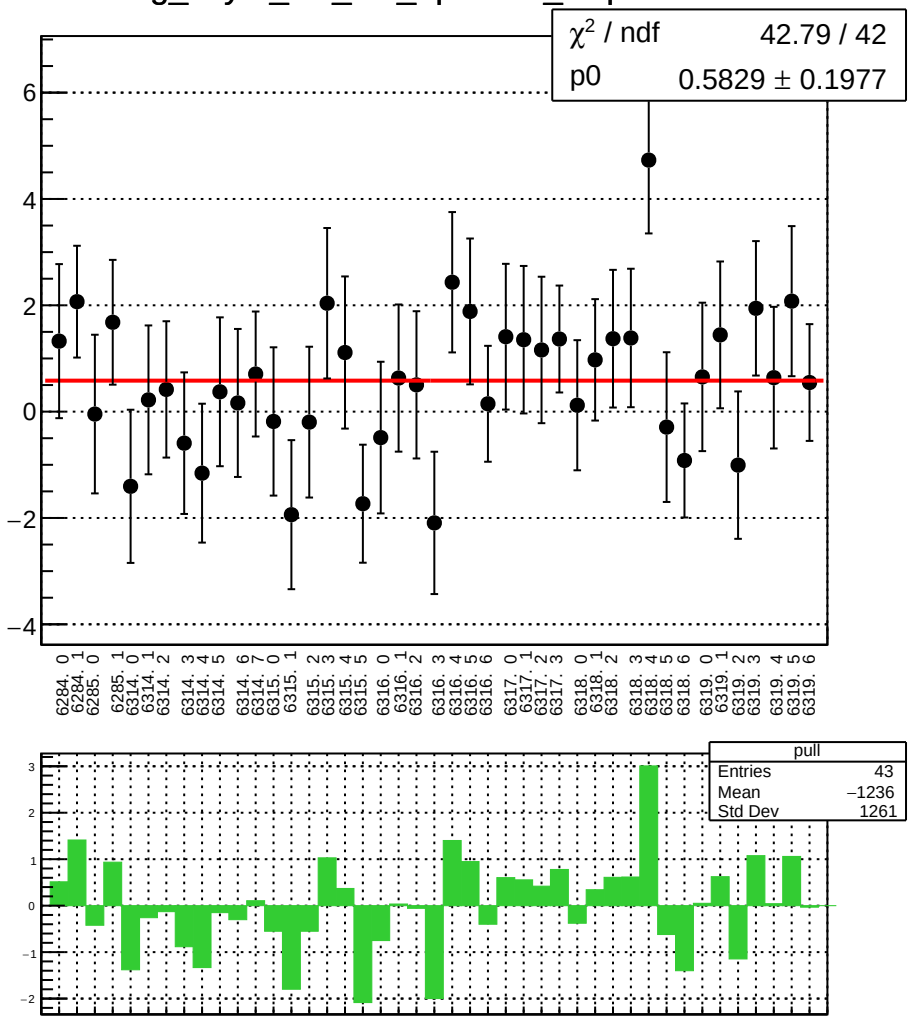

pull1D
Entries 43
Mean −0.02387
Std Dev 0.7749
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

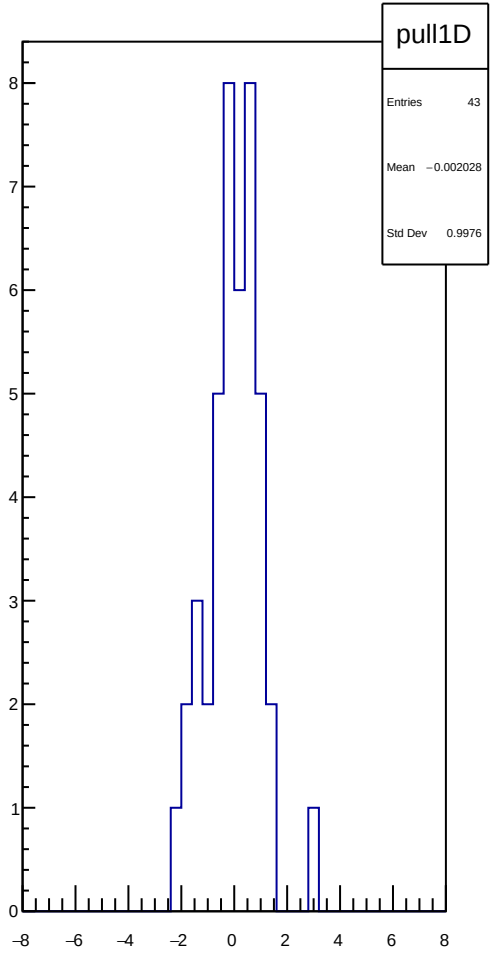

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 43.32 / 42
p0 −0.544 ± 0.1834
pull
Entries 43
Mean −1068
Std Dev 1092

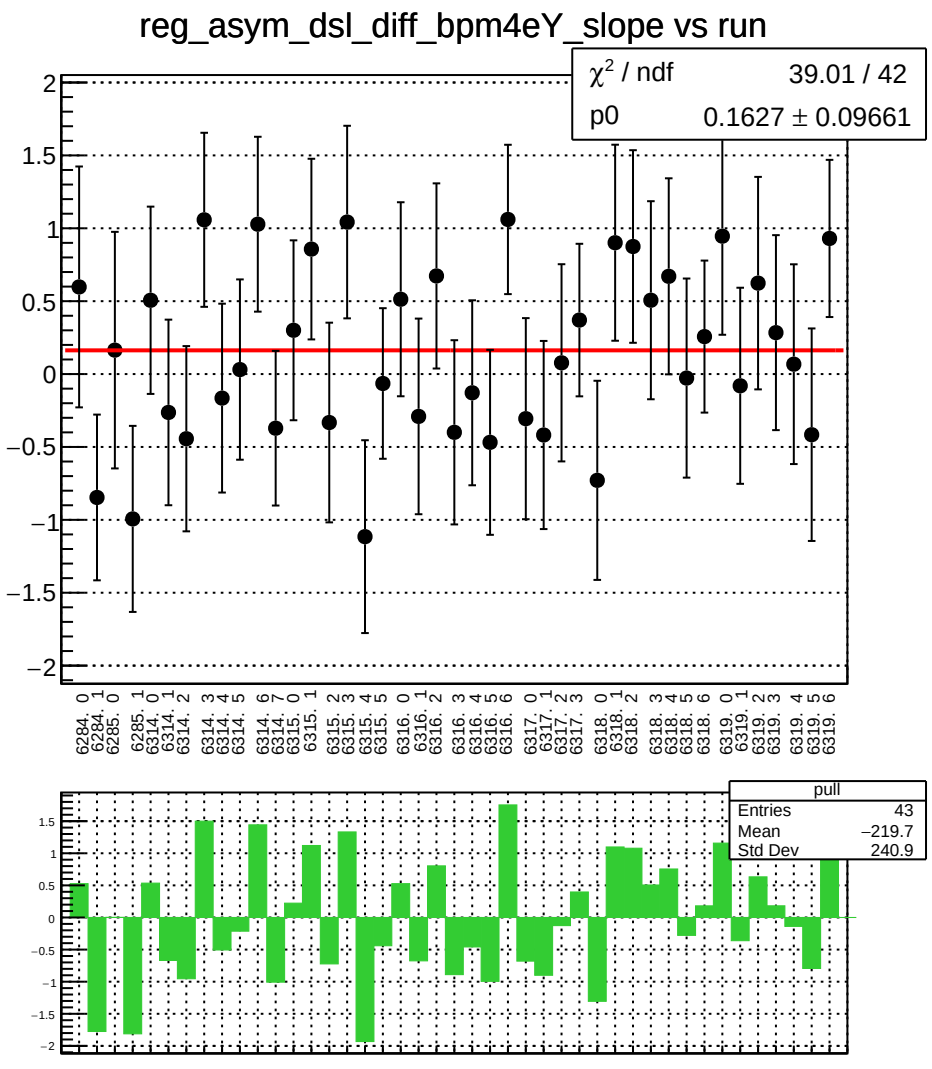

pull1D
Entries 43
Mean 0.002422
Std Dev 1.004

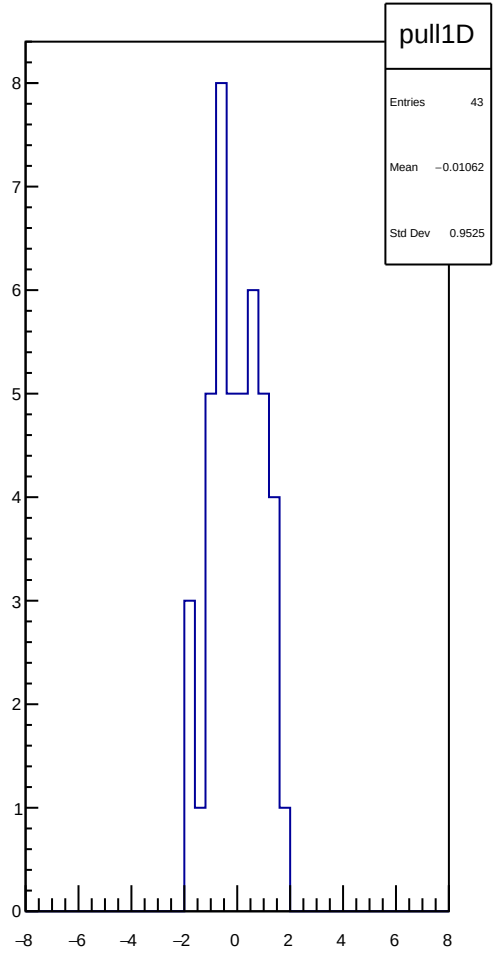

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 38.22 / 42
p0 −0.1125 ± 0.07884
pull
Entries 43
Mean −171.1
Std Dev 192.3

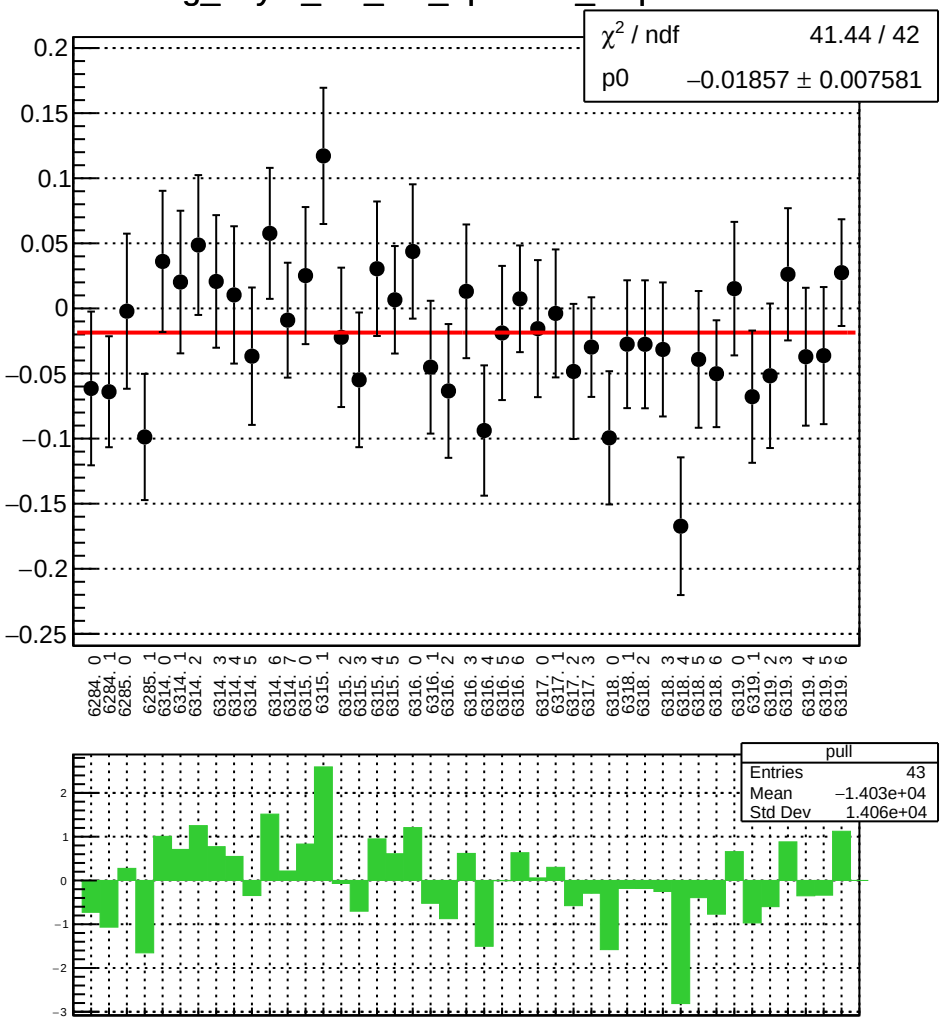

pull1D
Entries 43
Mean 0.0114
Std Dev 0.9427

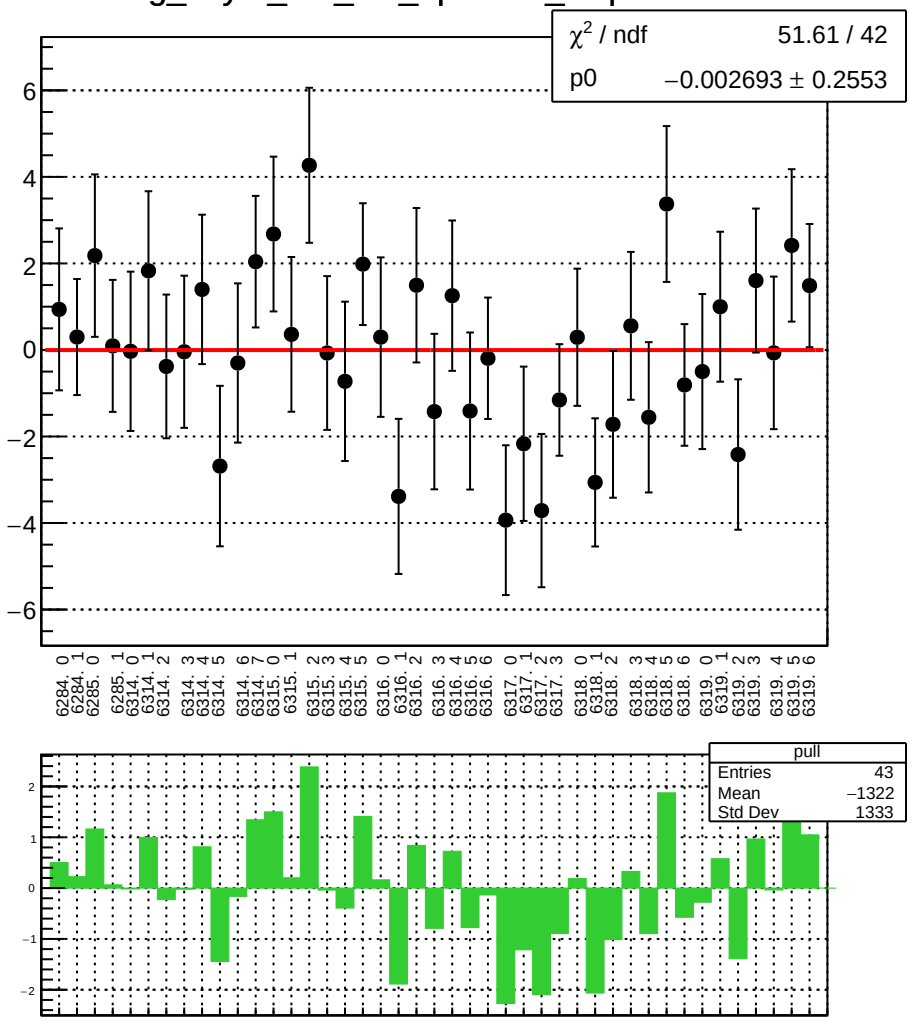

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 42.79 / 42
p0 0.5829 ± 0.1977
pull
Entries 43
Mean −1236
Std Dev 1261

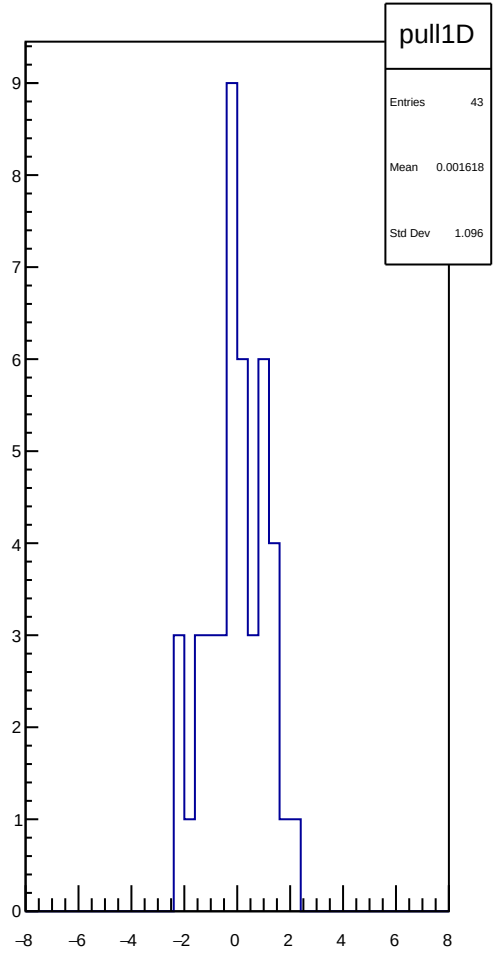

pull1D
Entries 43
Mean −0.002028
Std Dev 0.9976

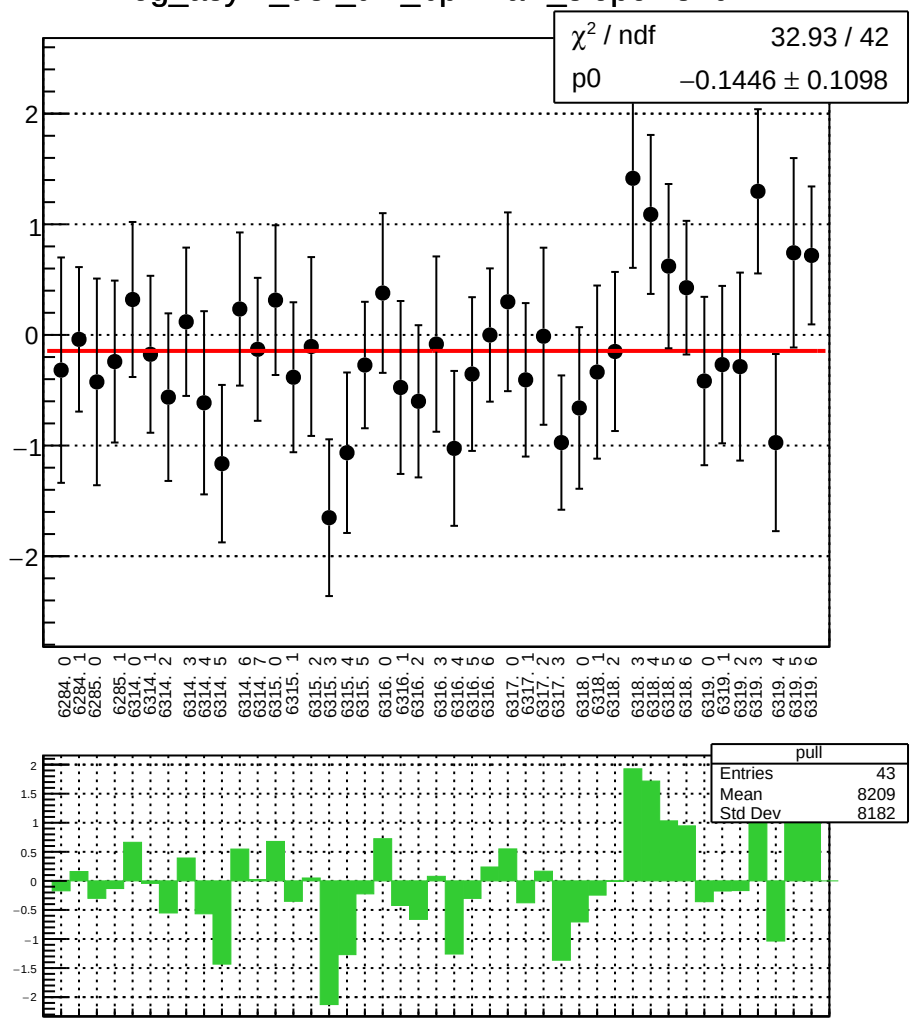

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 39.01 / 42
p0 0.1627 ± 0.09661
pull
Entries 43
Mean −219.7
Std Dev 240.9

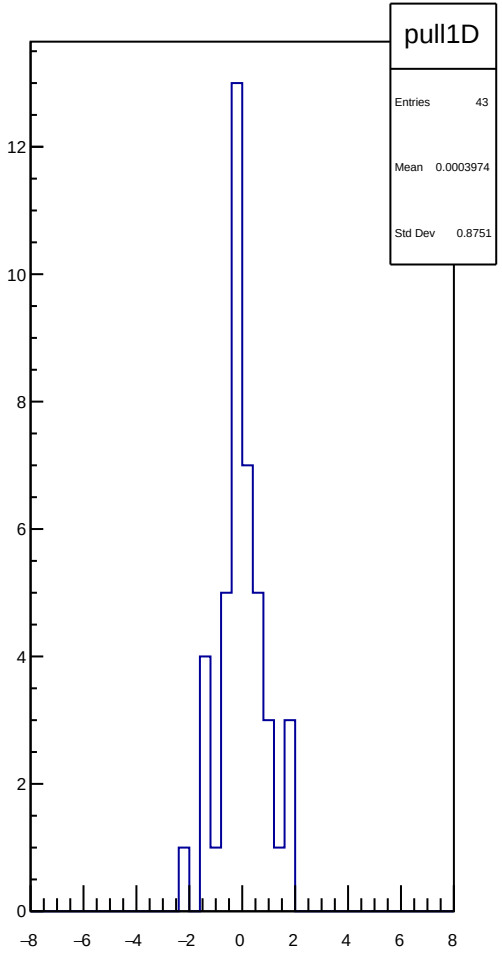

pull1D
Entries 43
Mean −0.01062
Std Dev 0.9525

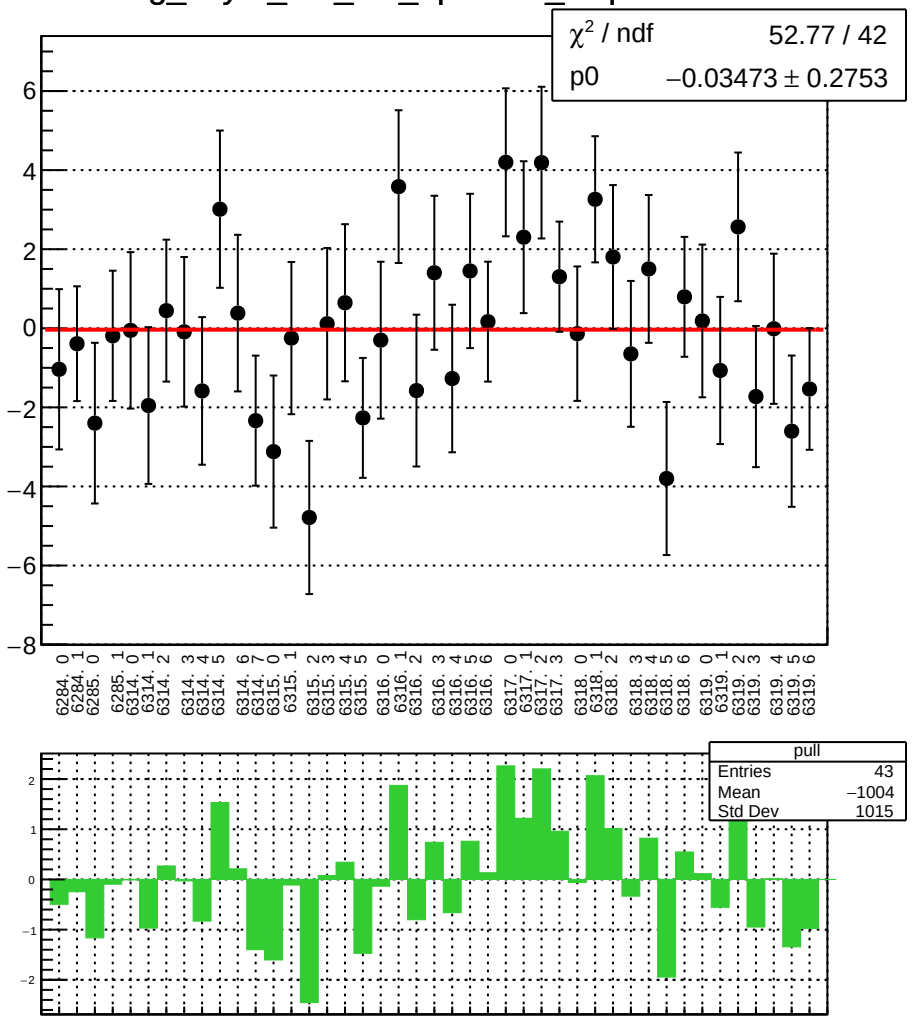

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 41.44 / 42
p0 −0.01857 ± 0.007581
pull
Entries 43
Mean −1.403e+04
Std Dev 1.406e+04
pull1D
Entries 43
Mean 0.0001866
Std Dev 0.9816

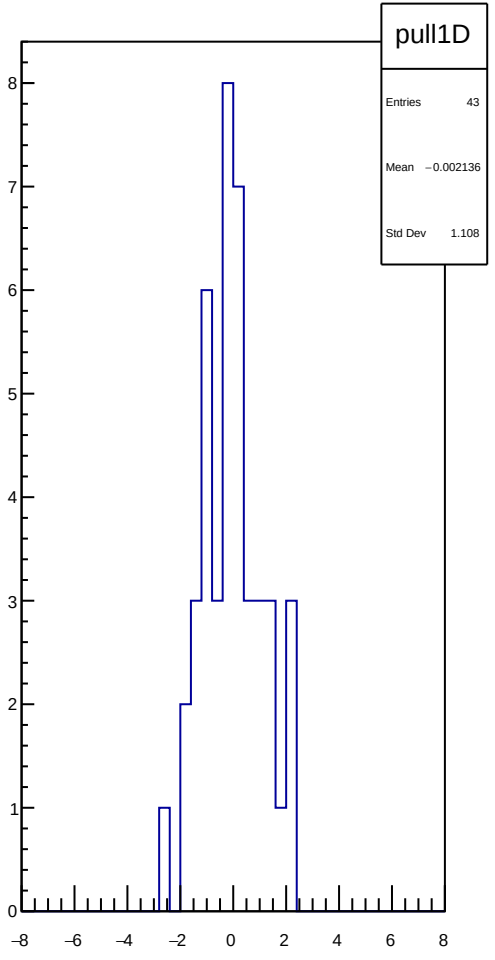

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 51.61 / 42
p0 −0.002693 ± 0.2553
6
4
2
0
−2
−4
−6
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −1322
Std Dev 1333
2
1
0
−1
−2

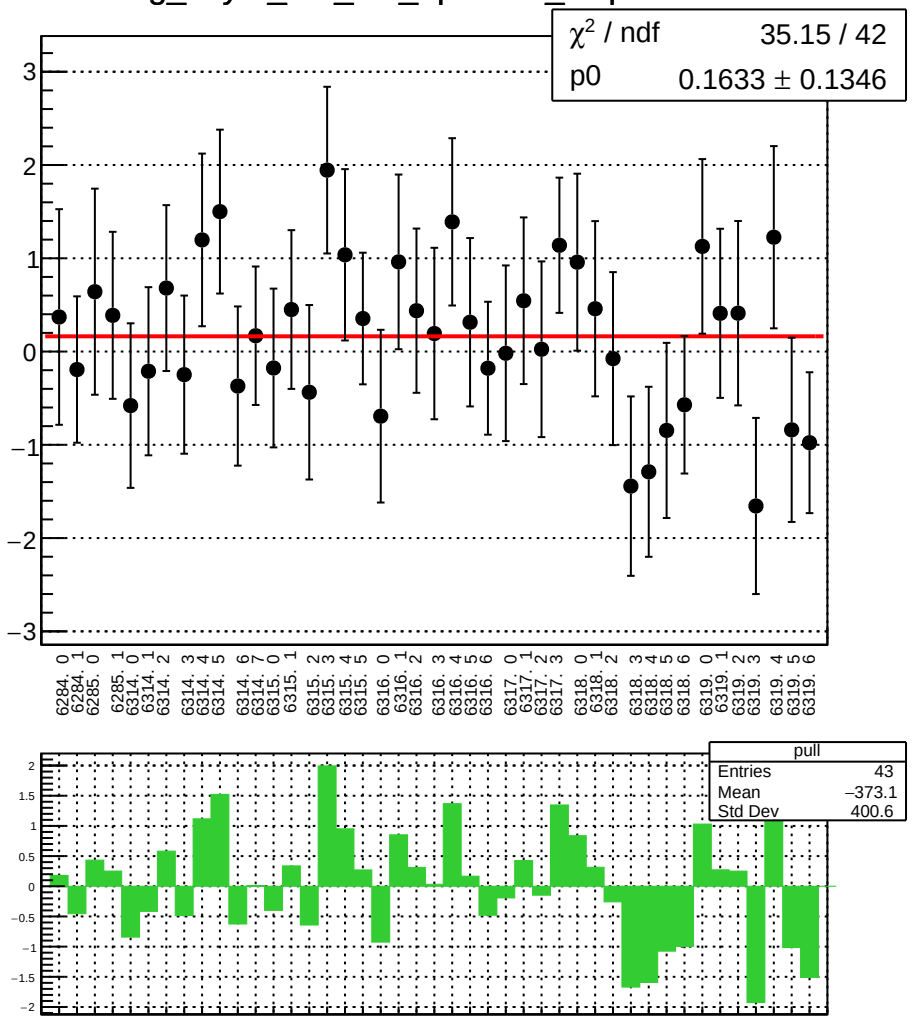

pull1D
Entries 43
Mean 0.001618
Std Dev 1.096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

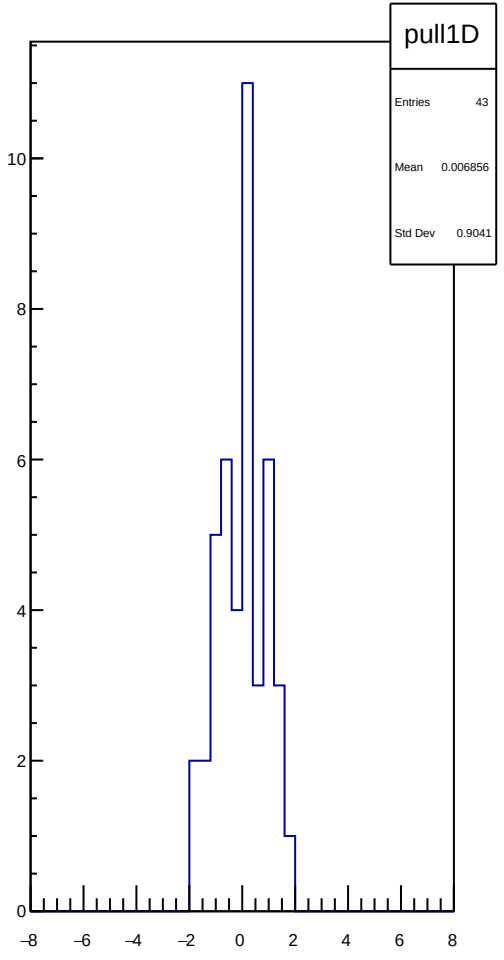

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 32.93 / 42
p0 −0.1446 ± 0.1098
pull
Entries 43
Mean 8209
Std Dev 8182

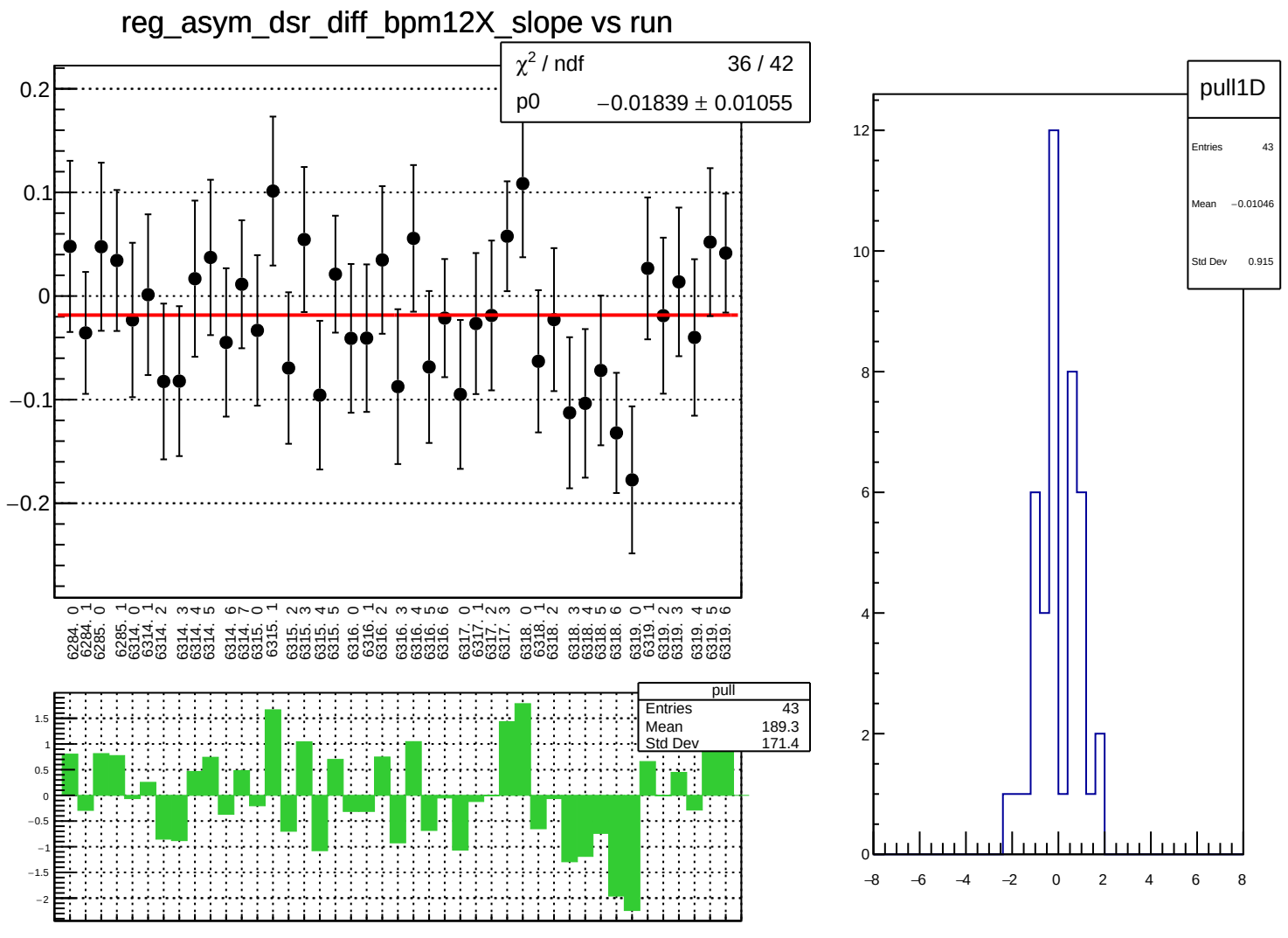

pull1D
Entries 43
Mean 0.0003974
Std Dev 0.8751

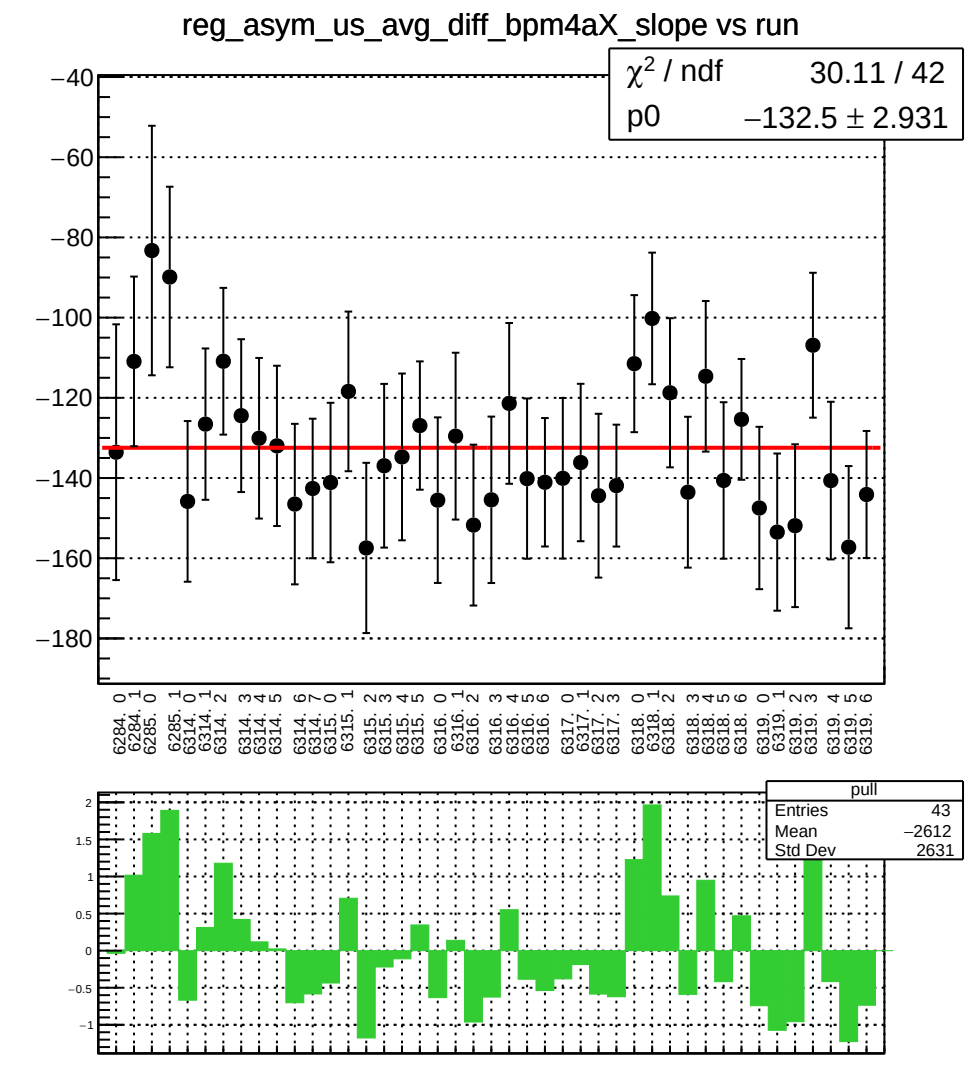

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 52.77 / 42
p0 −0.03473 ± 0.2753
pull
Entries 43
Mean −1004
Std Dev 1015

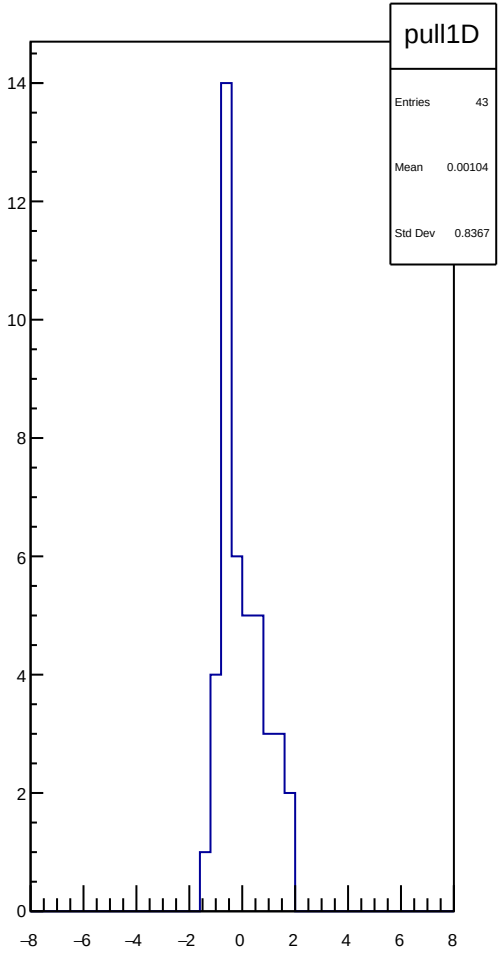

pull1D
Entries 43
Mean −0.002136
Std Dev 1.108

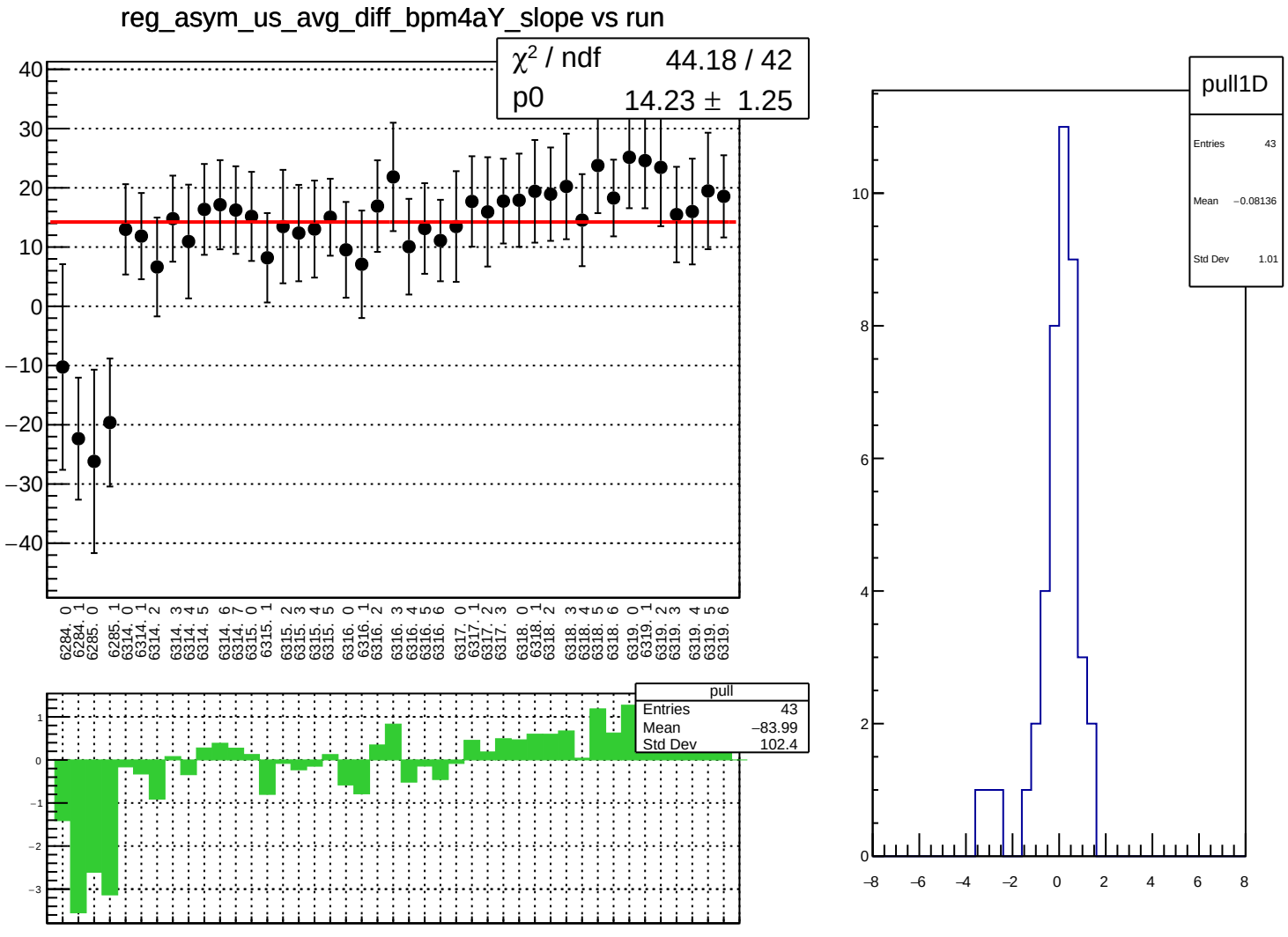

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 35.15 / 42
p0 0.1633 ± 0.1346
pull
Entries 43
Mean −373.1
Std Dev 400.6

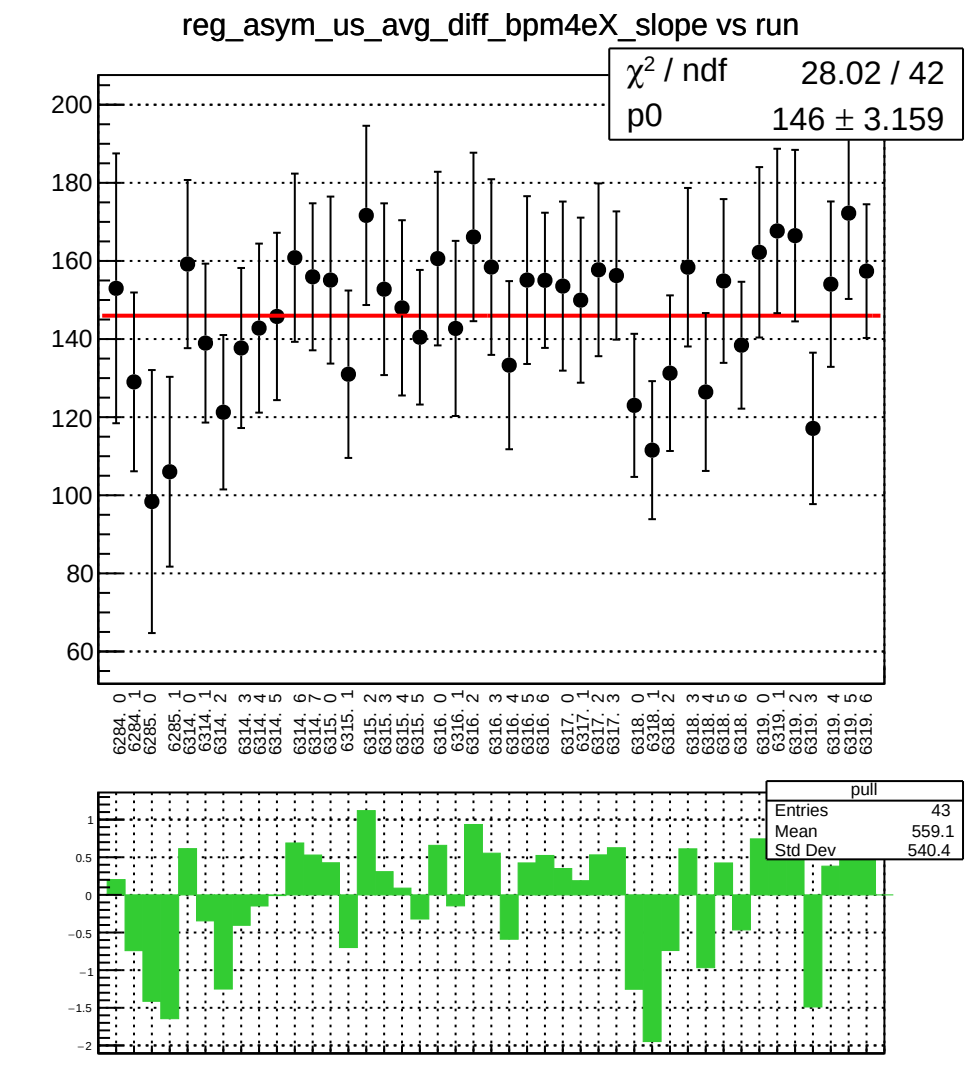

pull1D
Entries 43
Mean 0.006856
Std Dev 0.9041

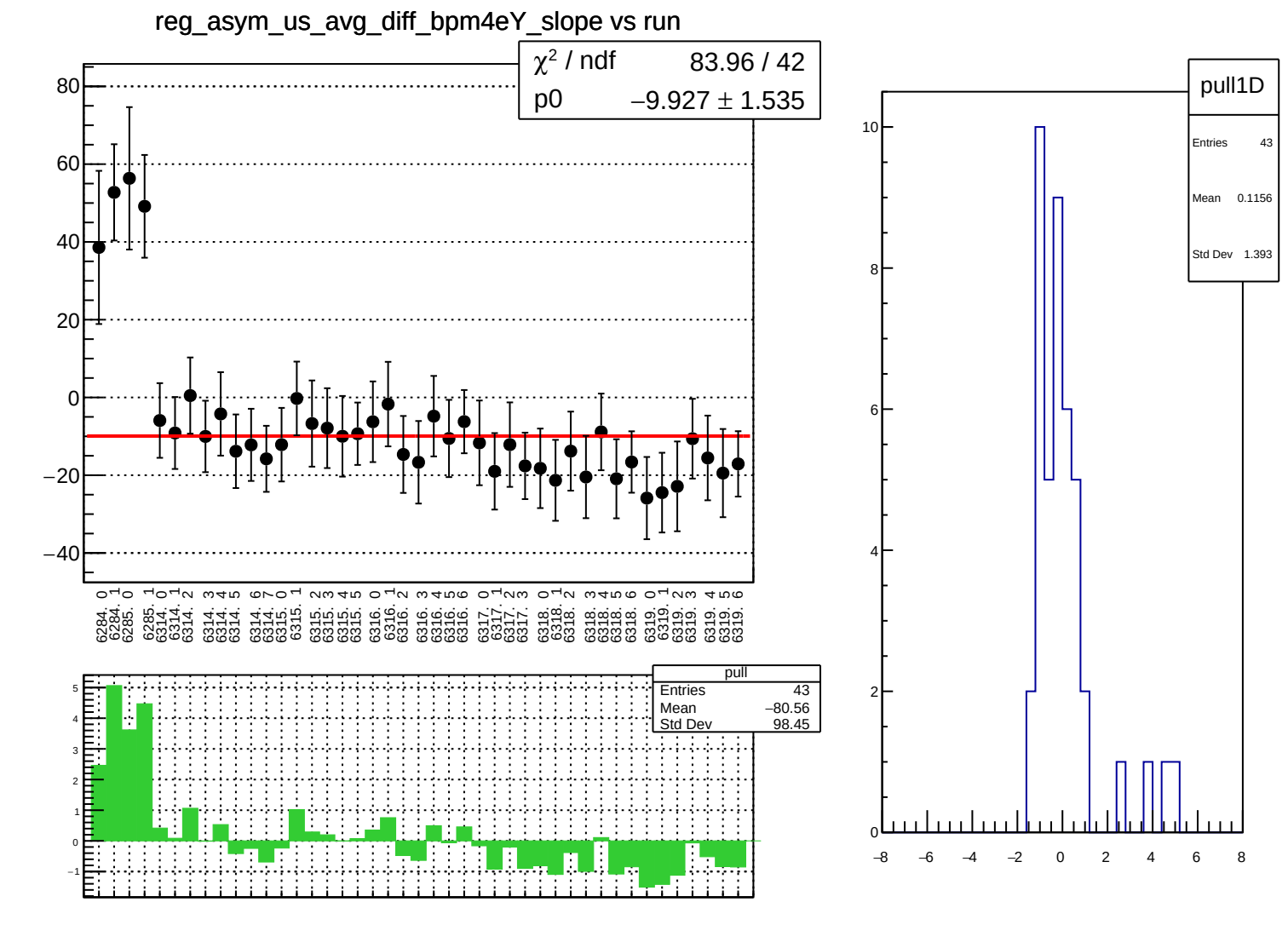

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 36 / 42
p0 −0.01839 ± 0.01055
0.2
0.1
0
−0.1
−0.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 189.3
Std Dev 171.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01046
Std Dev 0.915
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

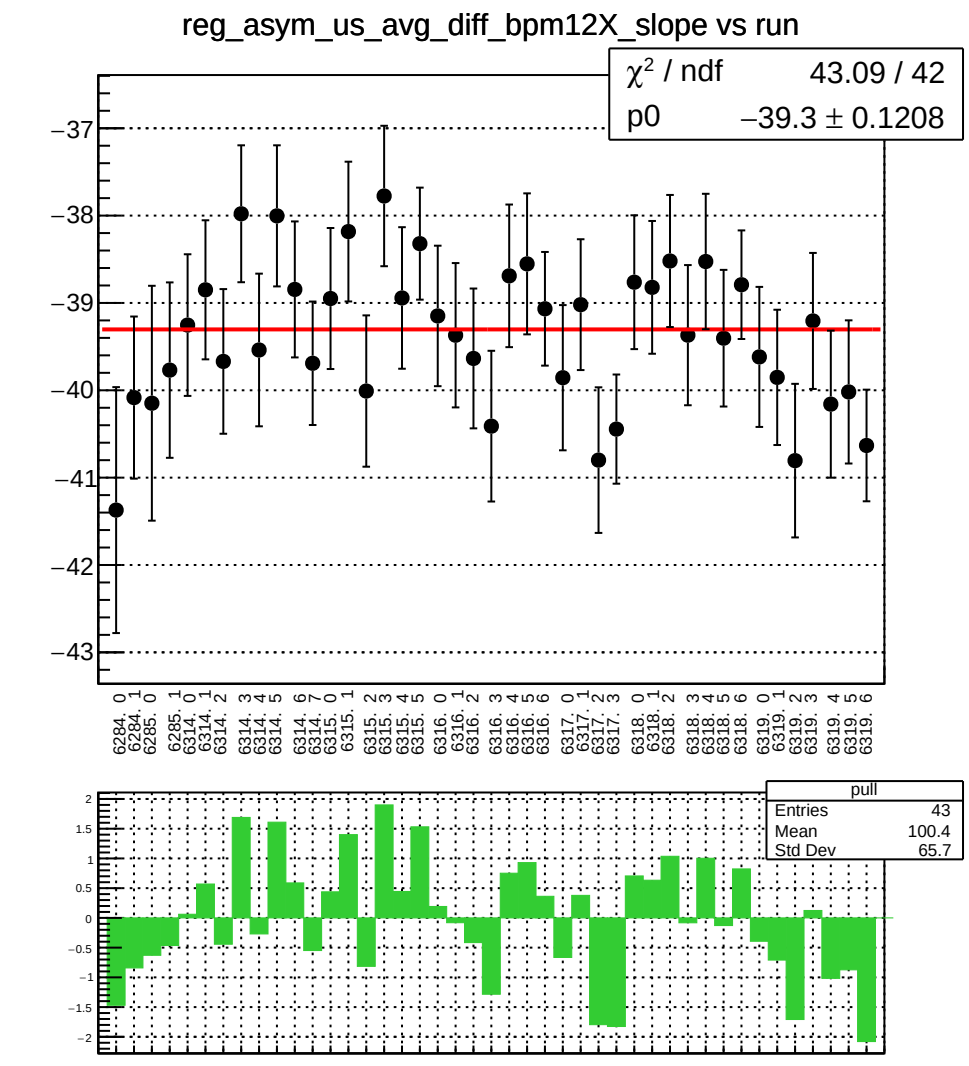

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.11 / 42
p0 −132.5 ± 2.931
pull
Entries 43
Mean −2612
Std Dev 2631

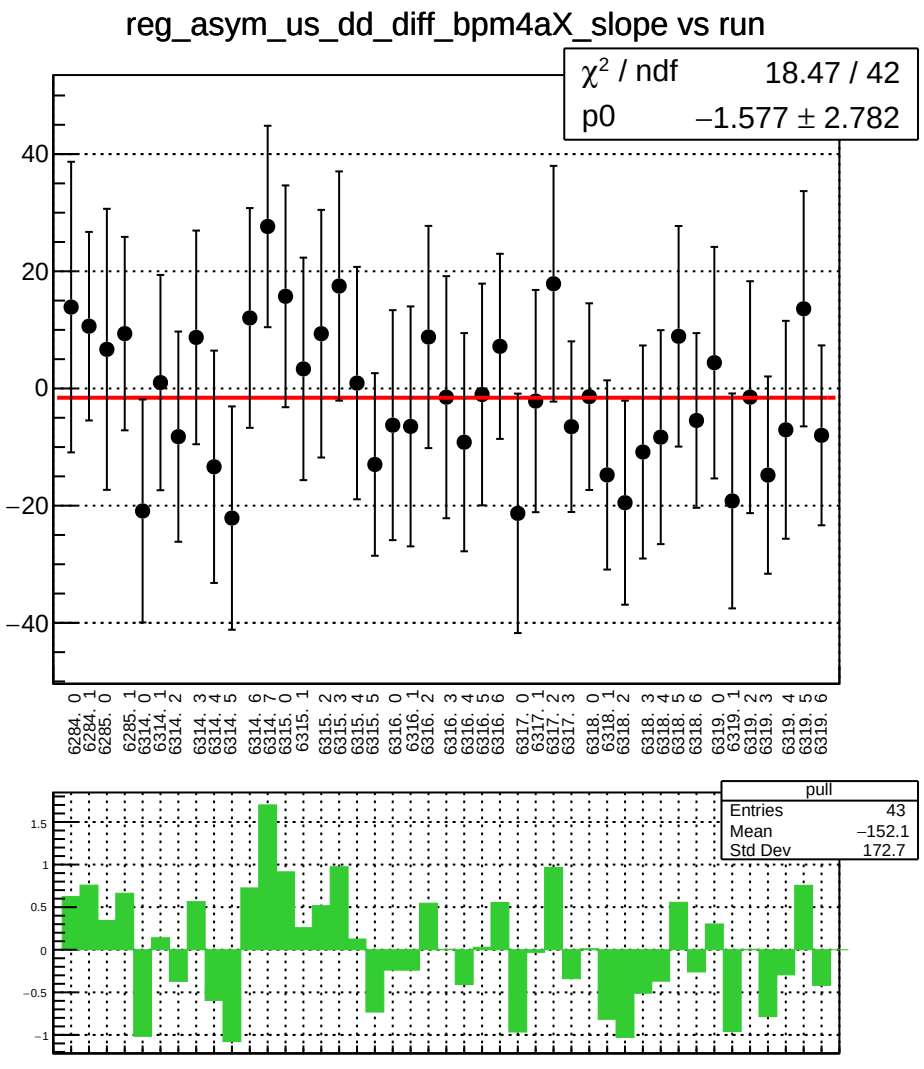

pull1D
Entries 43
Mean 0.00104
Std Dev 0.8367

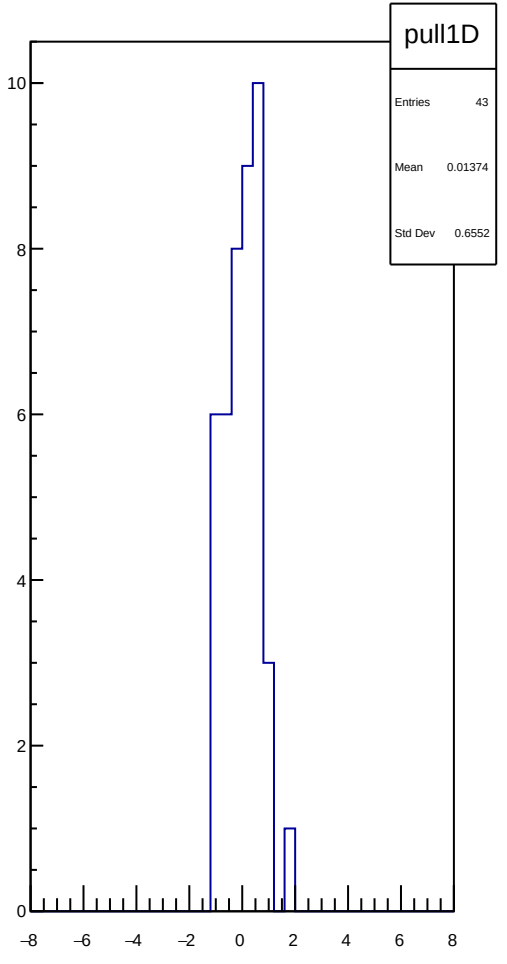

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.18 / 42
p0 14.23 ± 1.25
pull
Entries 43
Mean −83.99
Std Dev 102.4
pull1D
Entries 43
Mean −0.08136
Std Dev 1.01

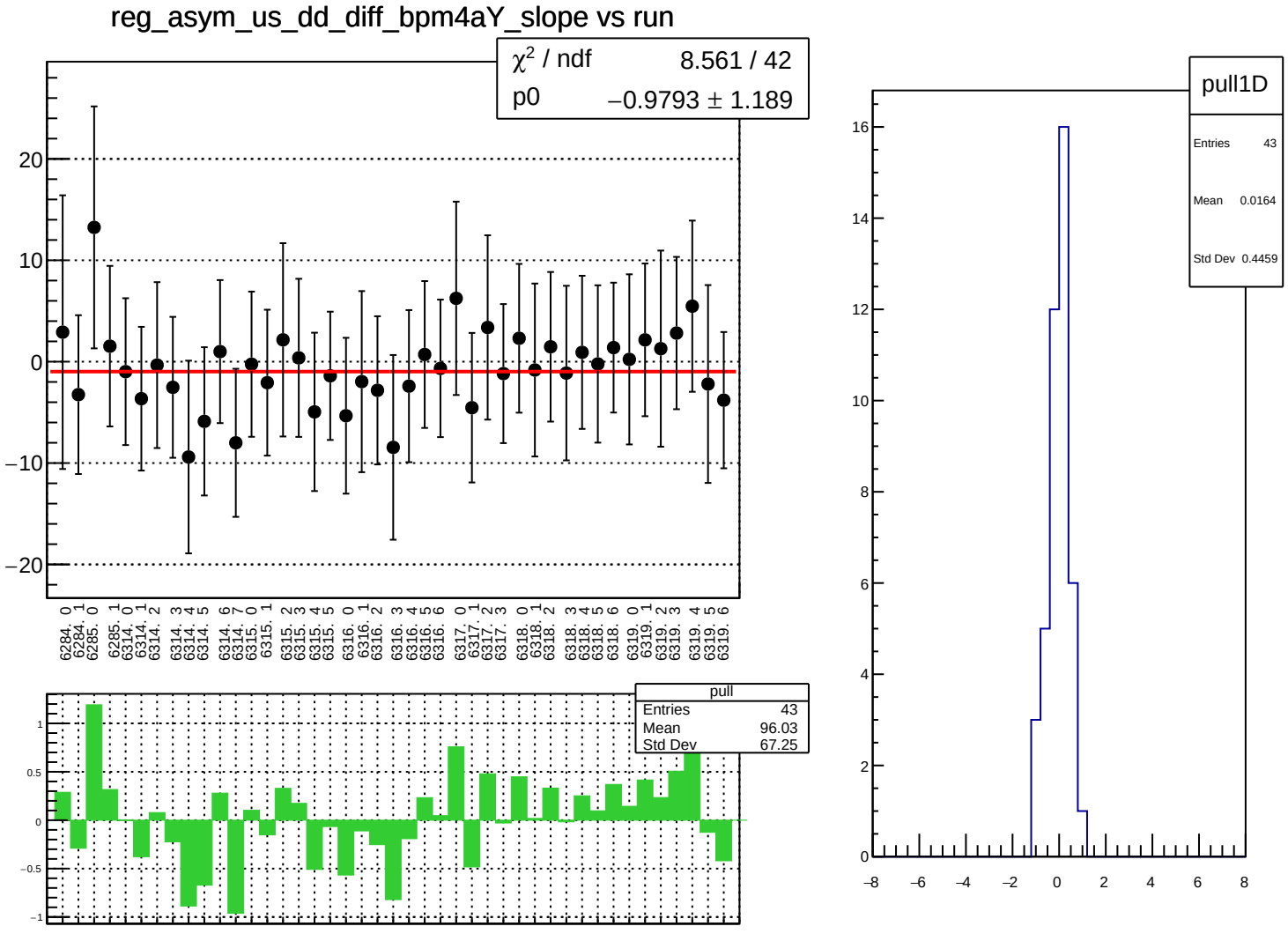

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.02 / 42
p0 146 ± 3.159
200
180
160
140
120
100
80
60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 559.1
Std Dev 540.4
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.004271
Std Dev 0.8073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

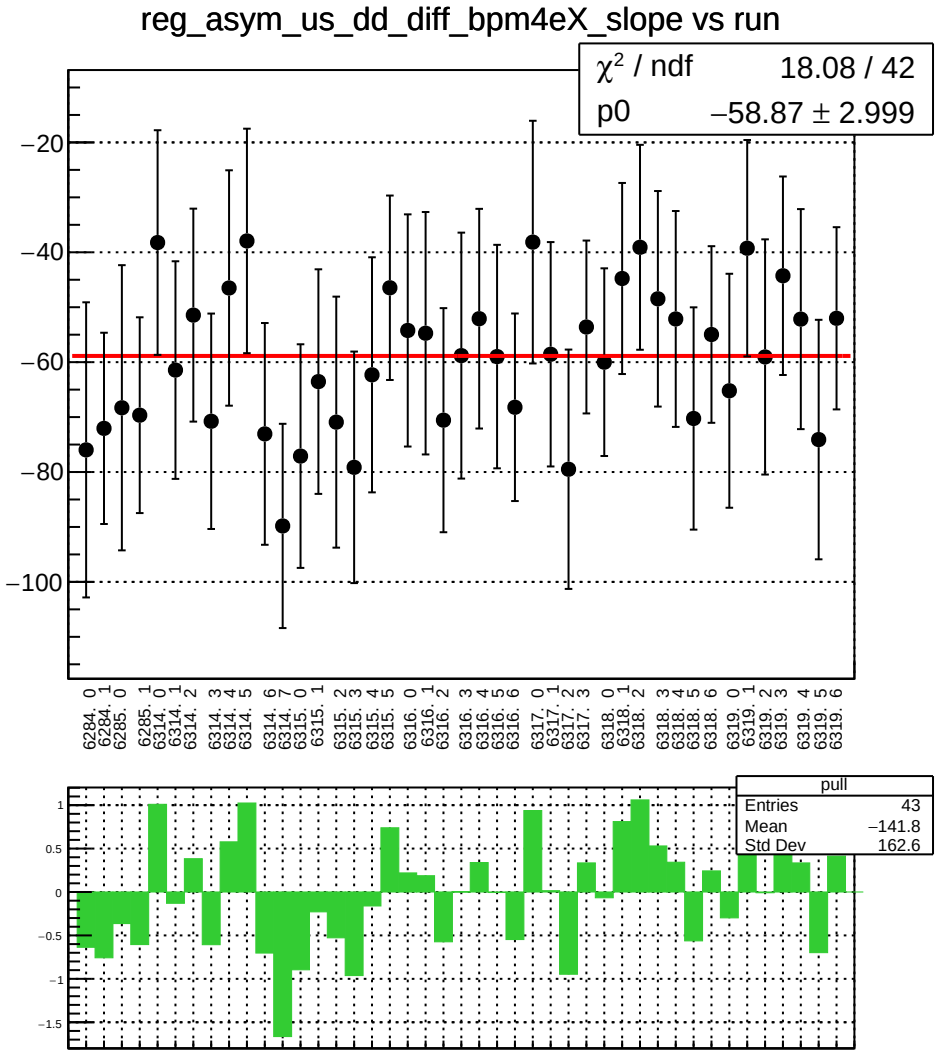

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.96 / 42
p0 −9.927 ± 1.535
pull
Entries 43
Mean −80.56
Std Dev 98.45
pull1D
Entries 43
Mean 0.1156
Std Dev 1.393

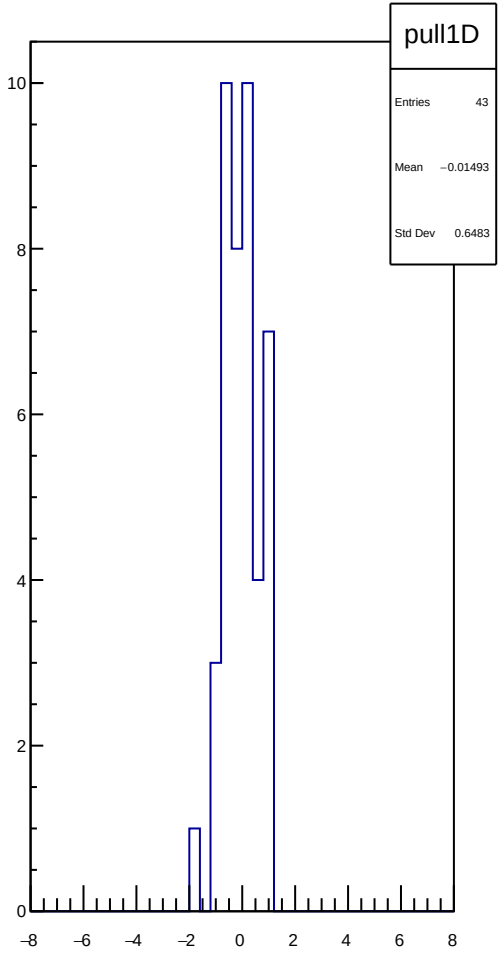

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 43.09 / 42
p0 −39.3 ± 0.1208
−37
−38
−39
−40
−41
−42
−43
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 100.4
Std Dev 65.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03171
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

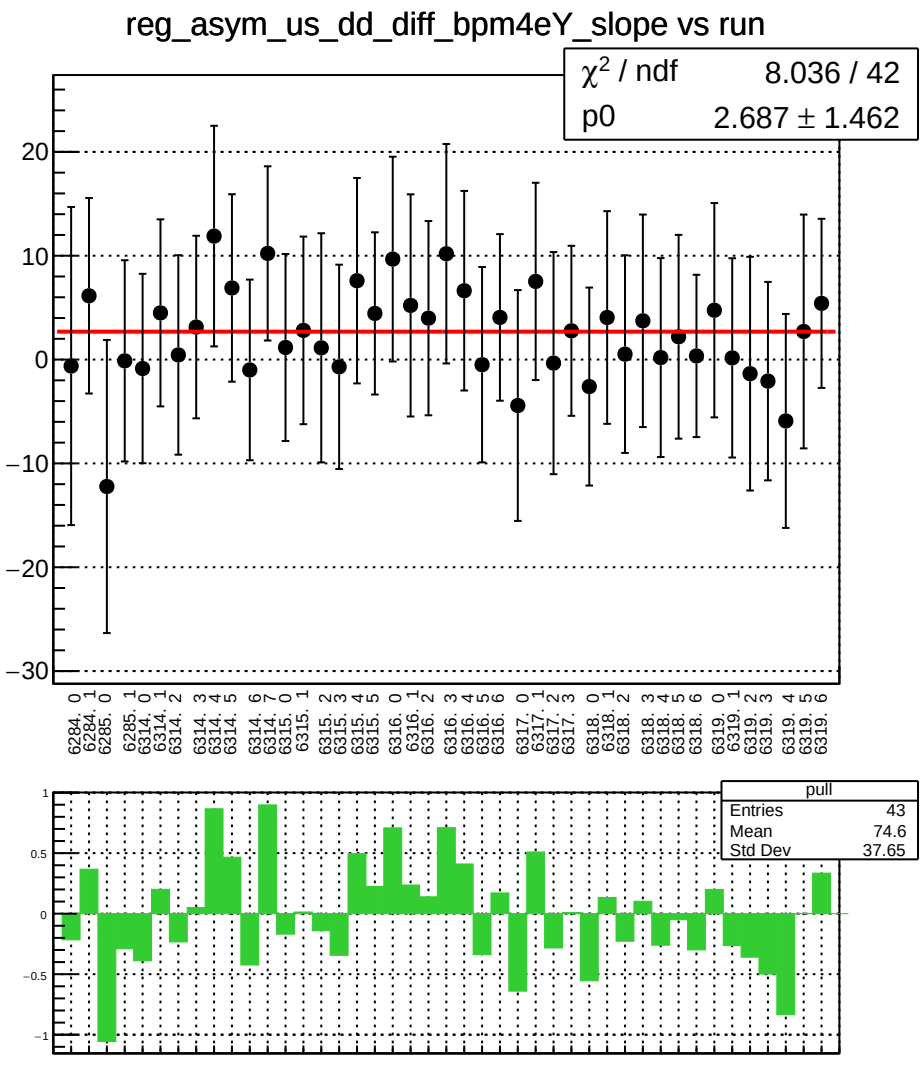

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.47 / 42
p0 −1.577 ± 2.782
40
20
0
−20
−40
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −152.1
Std Dev 172.7
1.5
1
0.5
0
−0.5
−1

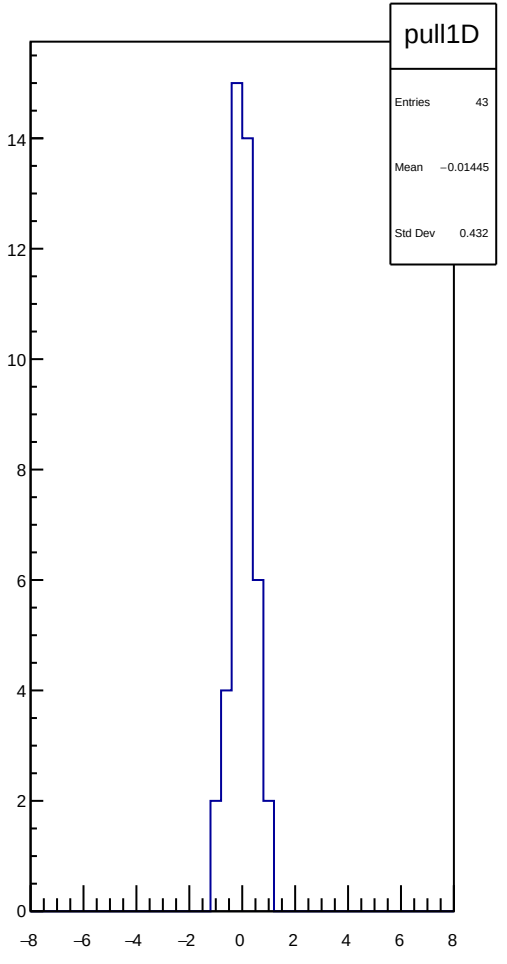

pull1D
Entries 43
Mean 0.01374
Std Dev 0.6552
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

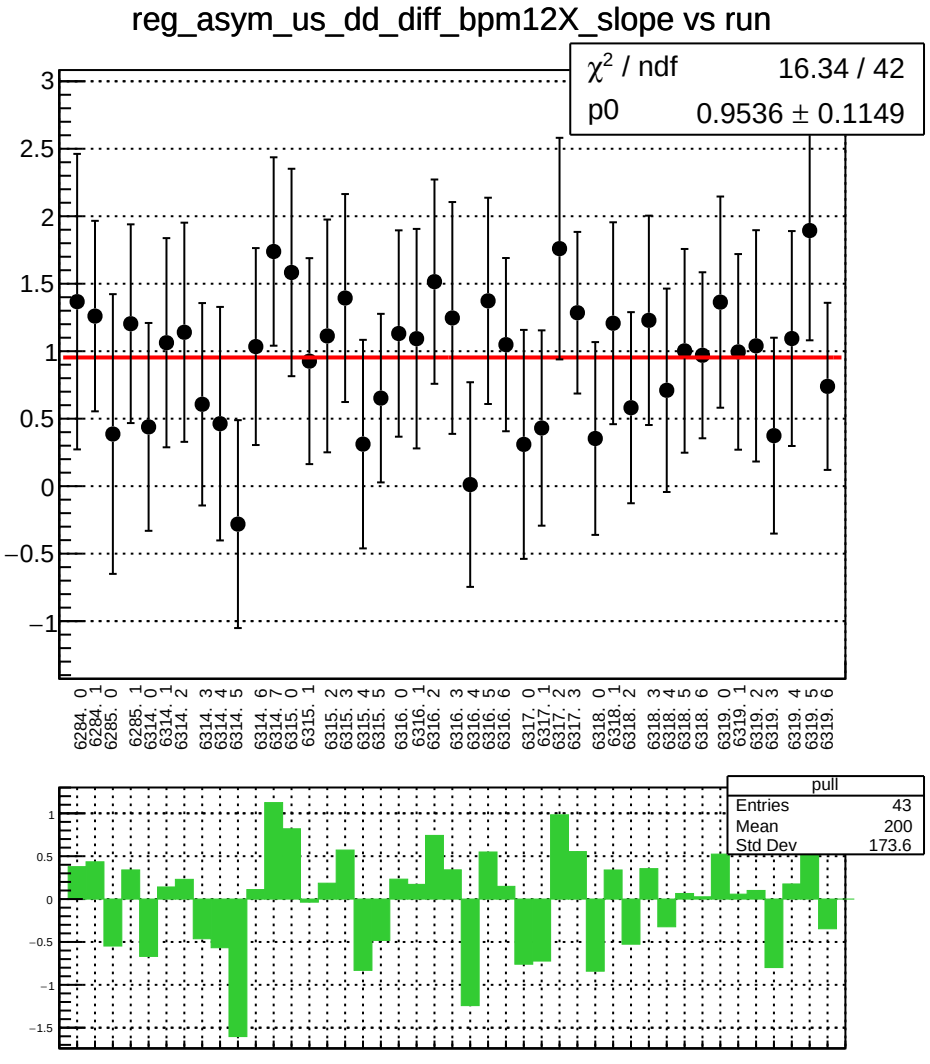

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.561 / 42
p0 −0.9793 ± 1.189
20
10
0
−10
−20
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 96.03
Std Dev 67.25
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.0164
Std Dev 0.4459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

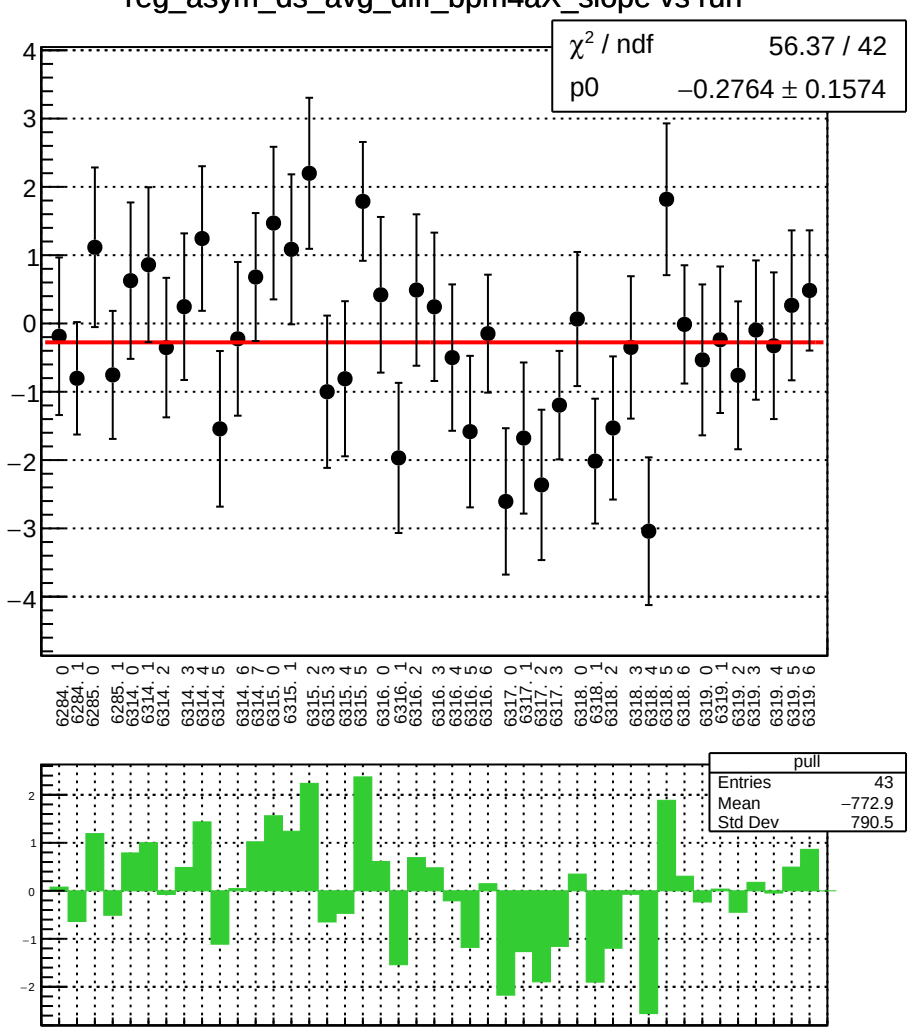

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.08 / 42
p0 −58.87 ± 2.999
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −141.8
Std Dev 162.6
1
0.5
0
−0.5
−1
−1.5

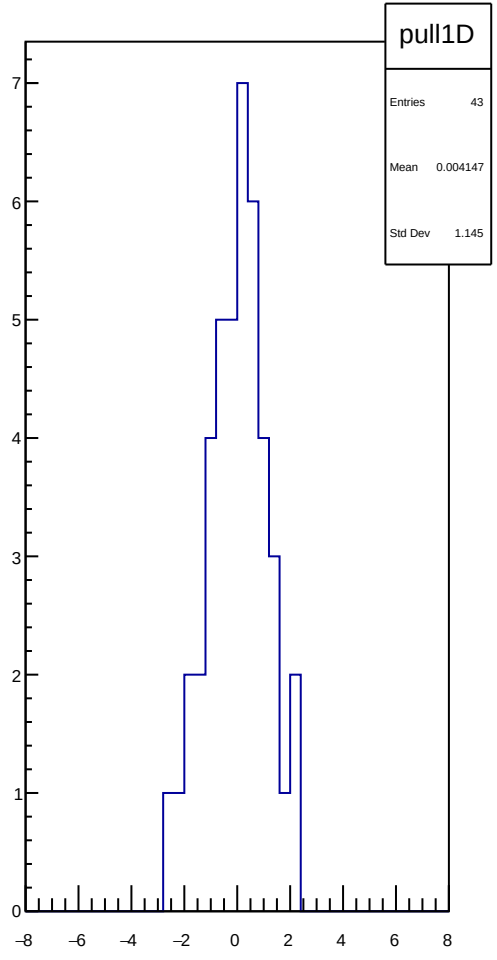

pull1D
Entries 43
Mean −0.01493
Std Dev 0.6483
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

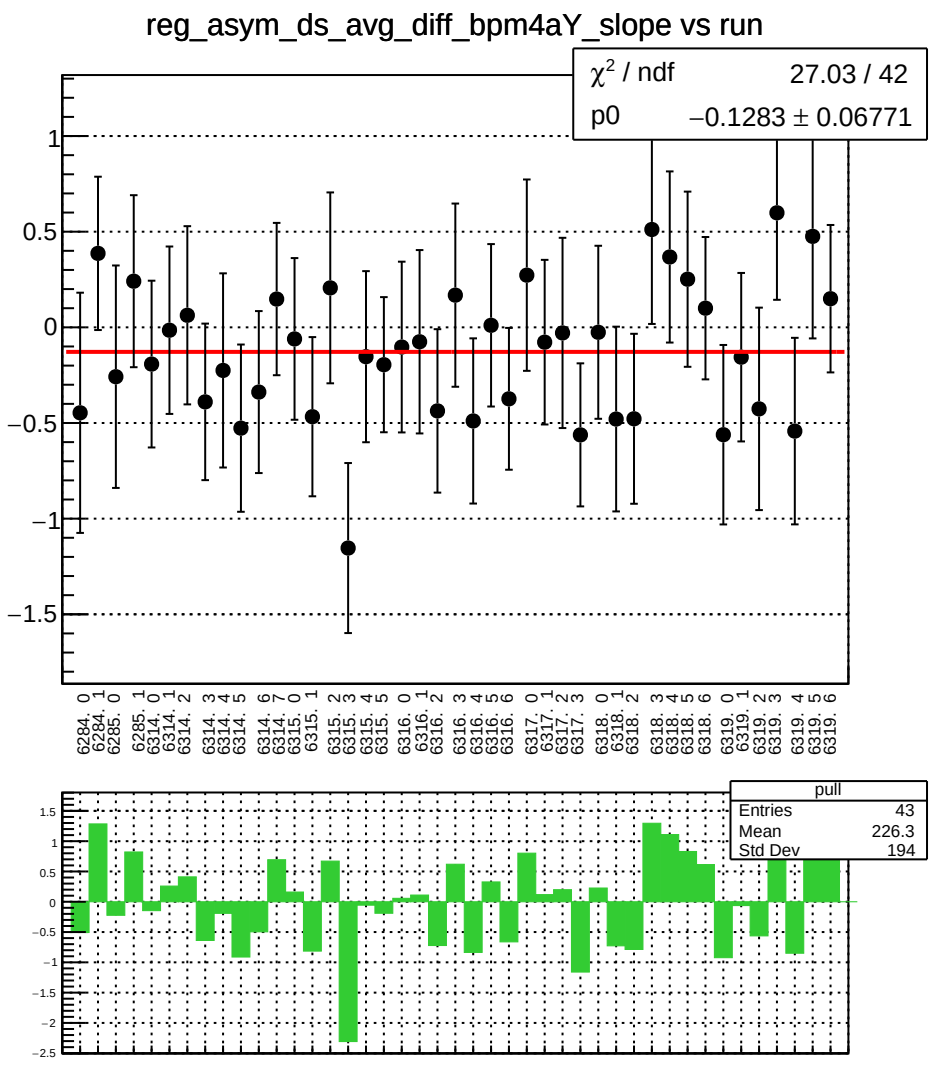

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.036 / 42
p0 2.687 ± 1.462
20
10
0
−10
−20
−30
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 74.6
Std Dev 37.65
1
0.5
0
−0.5
−1

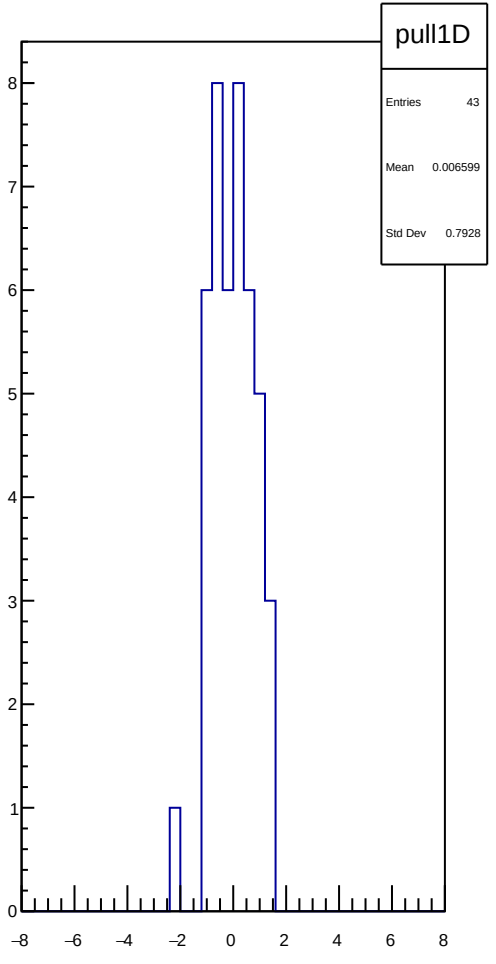

pull1D
Entries 43
Mean −0.01445
Std Dev 0.432
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

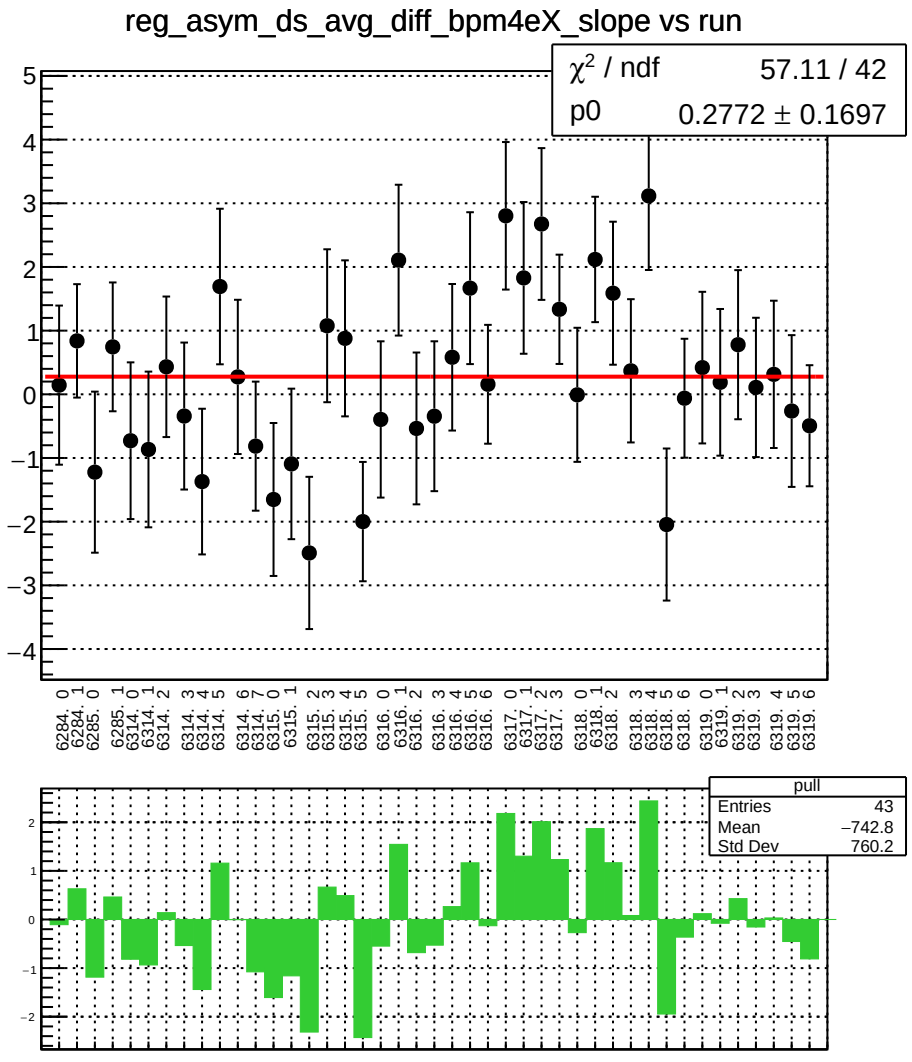

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 16.34 / 42
p0 0.9536 ± 0.1149
pull
Entries 43
Mean 200
Std Dev 173.6
pull1D
Entries 43
Mean 0.002277
Std Dev 0.6164

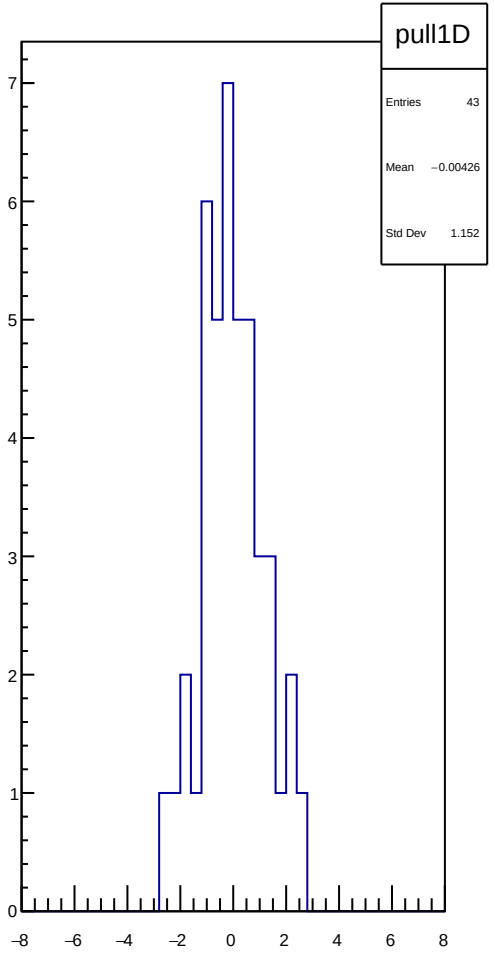

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 56.37 / 42
p0 −0.2764 ± 0.1574
pull
Entries 43
Mean −772.9
Std Dev 790.5

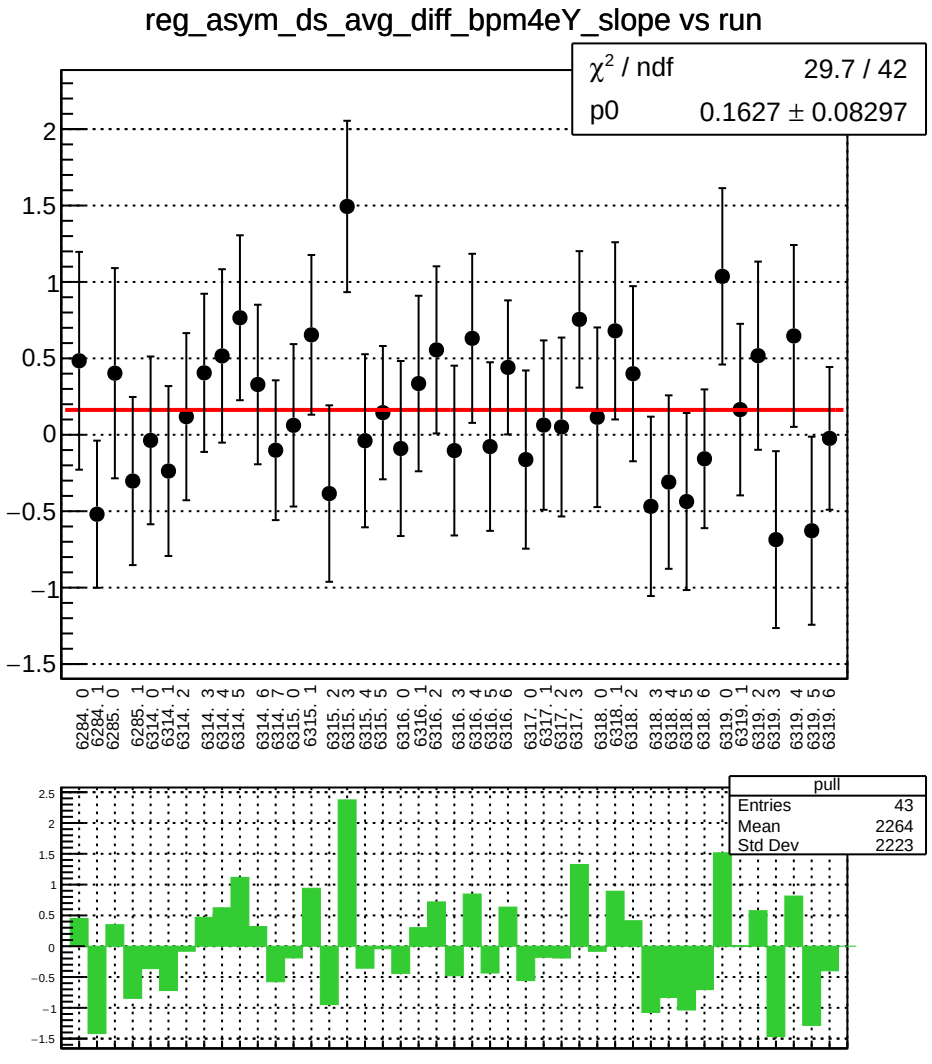

pull1D
Entries 43
Mean 0.004147
Std Dev 1.145

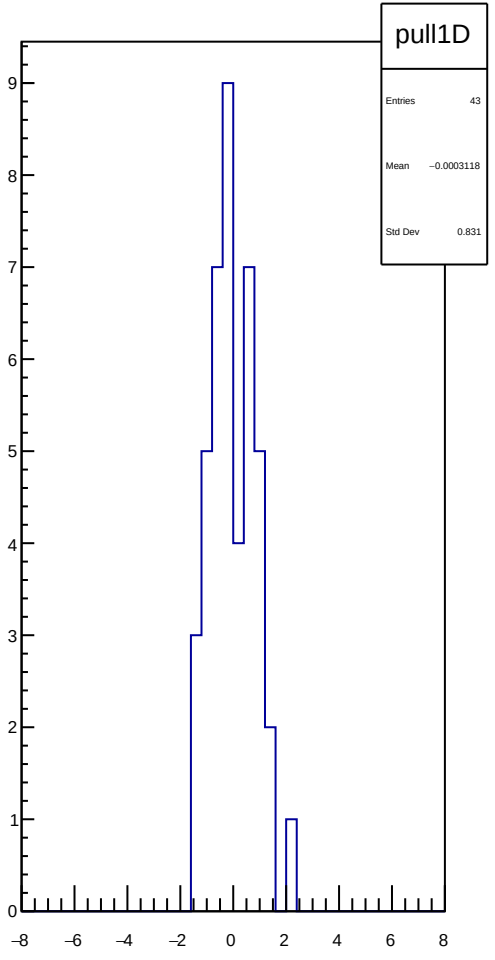

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.03 / 42
p0 −0.1283 ± 0.06771
pull
Entries 43
Mean 226.3
Std Dev 194

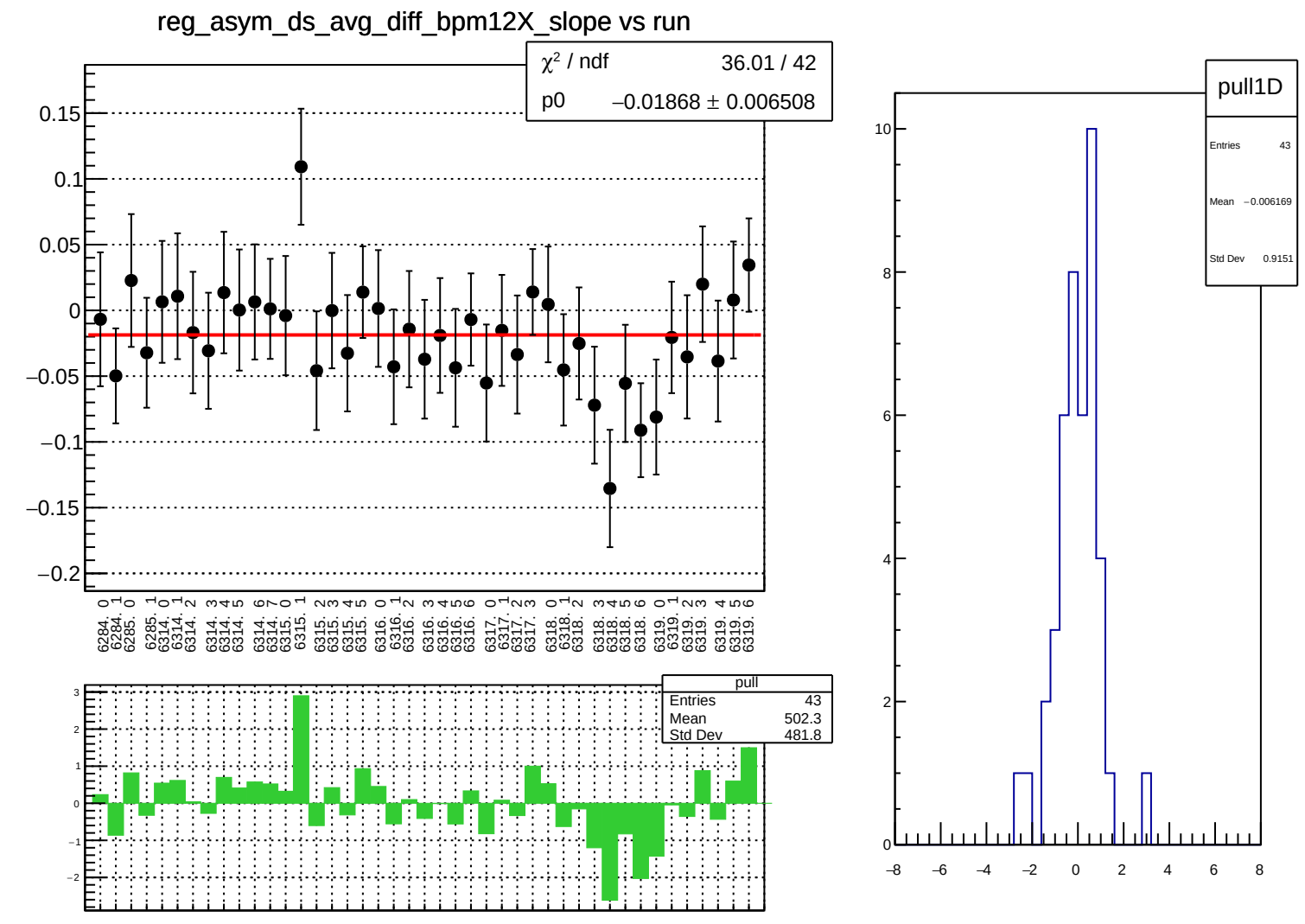

pull1D
Entries 43
Mean 0.006599
Std Dev 0.7928

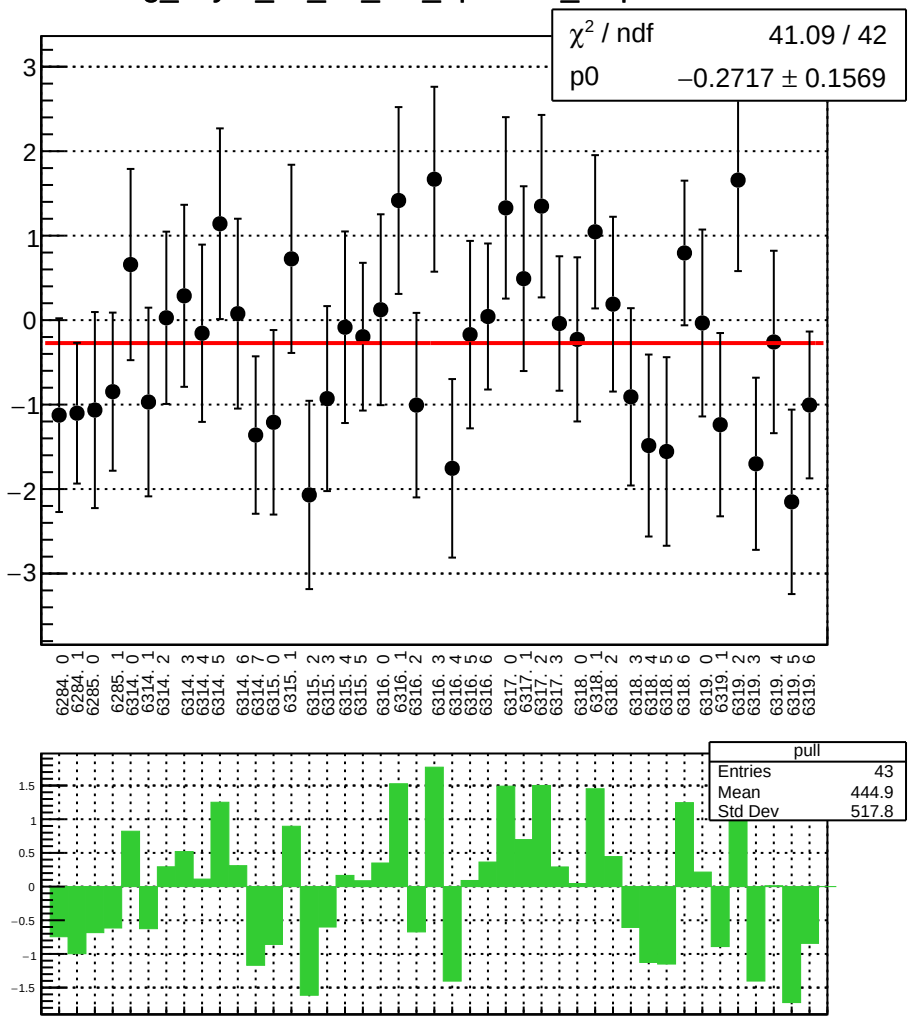

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.11 / 42
p0 0.2772 ± 0.1697
pull
Entries 43
Mean −742.8
Std Dev 760.2

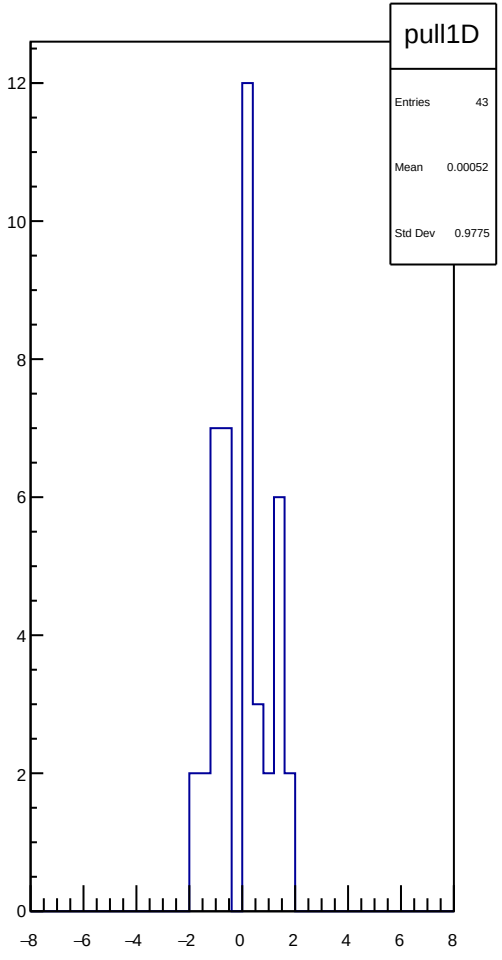

pull1D
Entries 43
Mean −0.00426
Std Dev 1.152

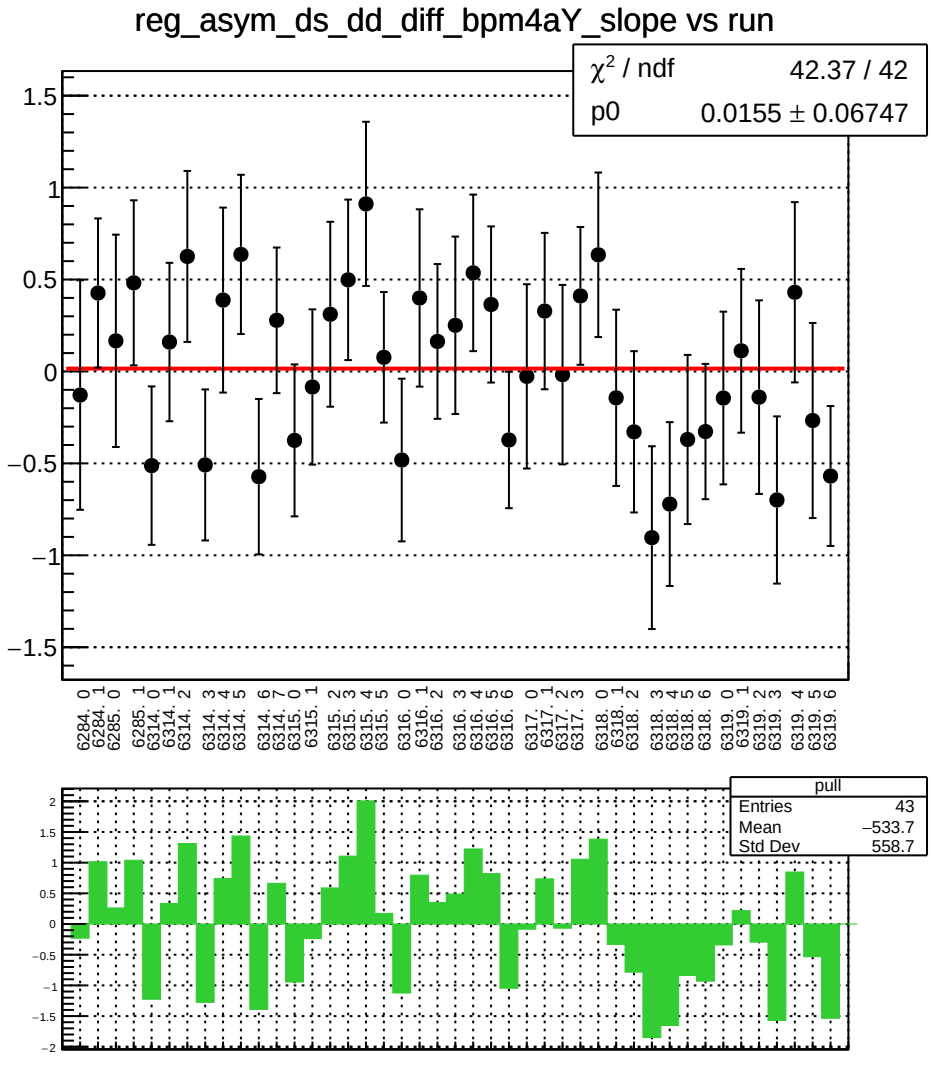

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.7 / 42
p0 0.1627 ± 0.08297
pull
Entries 43
Mean 2264
Std Dev 2223

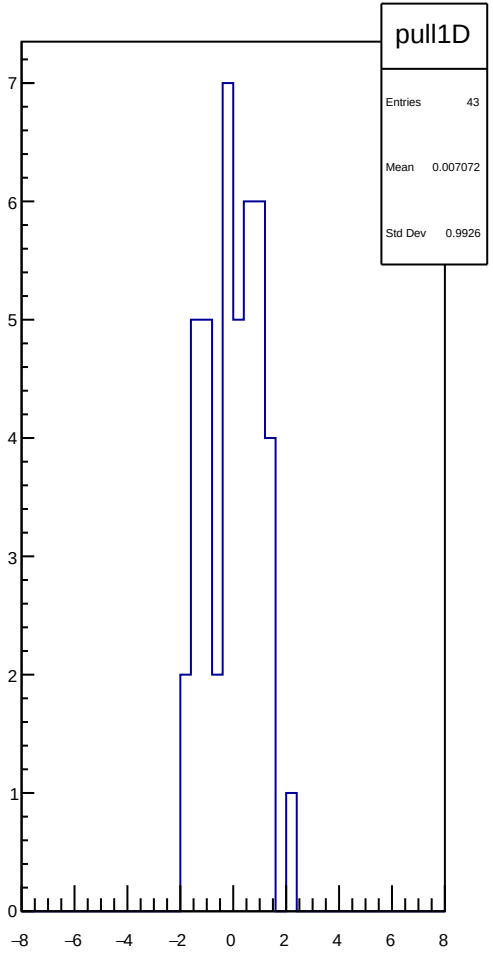

pull1D
Entries 43
Mean −0.0003118
Std Dev 0.831

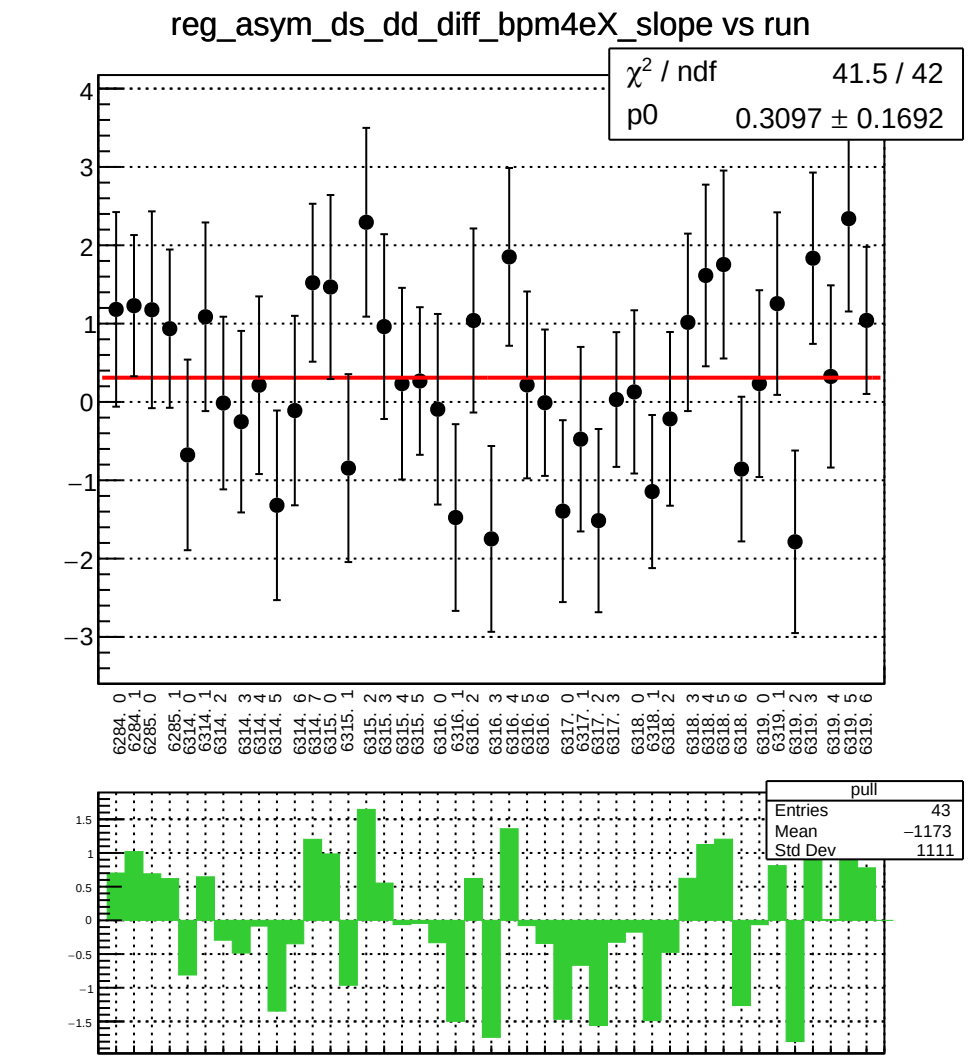

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 36.01 / 42
p0 −0.01868 ± 0.006508
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 502.3
Std Dev 481.8
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.006169
Std Dev 0.9151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

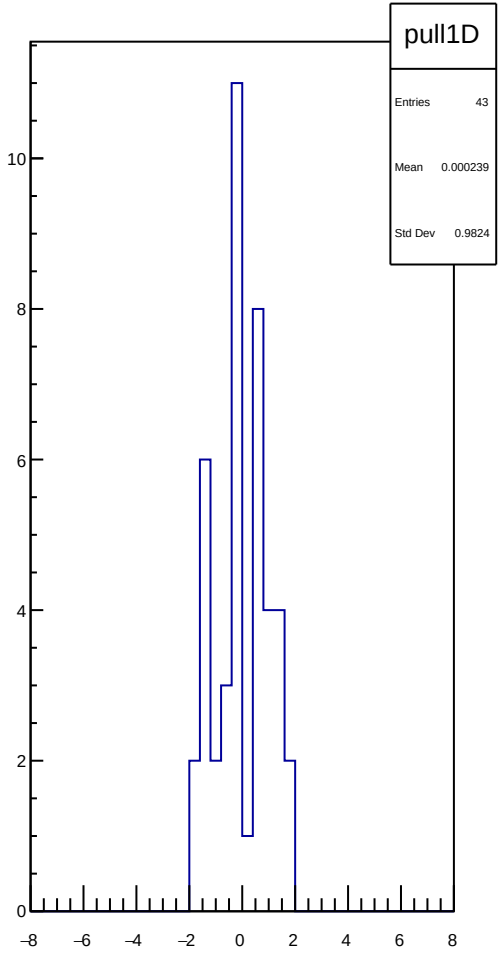

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.09 / 42
p0 −0.2717 ± 0.1569
pull
Entries 43
Mean 444.9
Std Dev 517.8

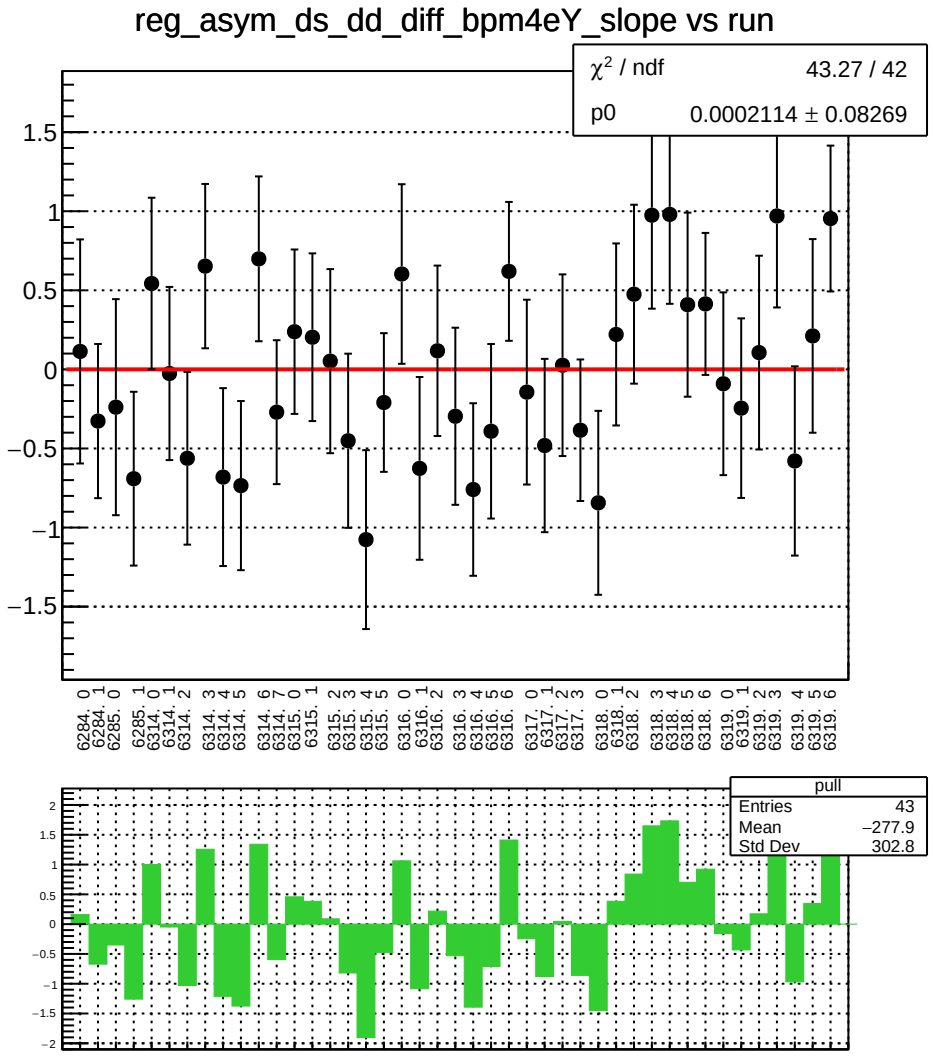

pull1D
Entries 43
Mean 0.00052
Std Dev 0.9775

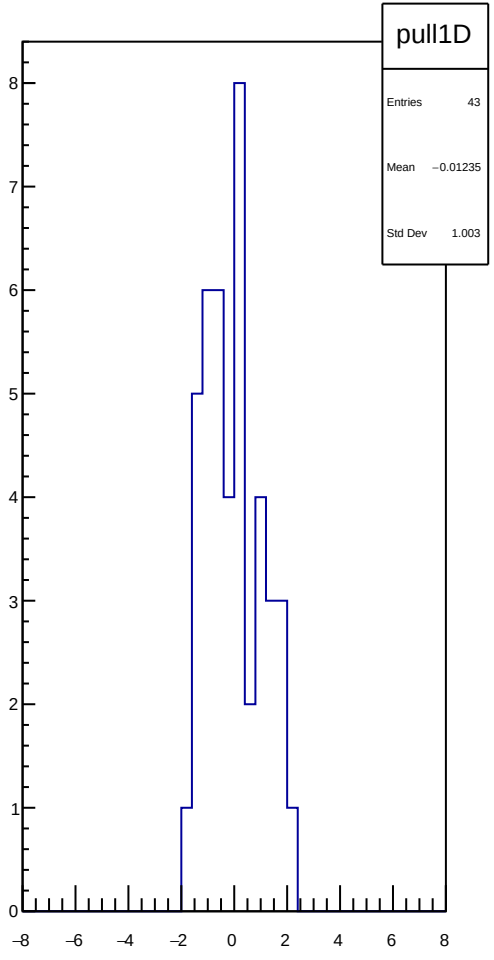

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.37 / 42
p0 0.0155 ± 0.06747
1.5
1
0.5
0
−0.5
−1
−1.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −533.7
Std Dev 558.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

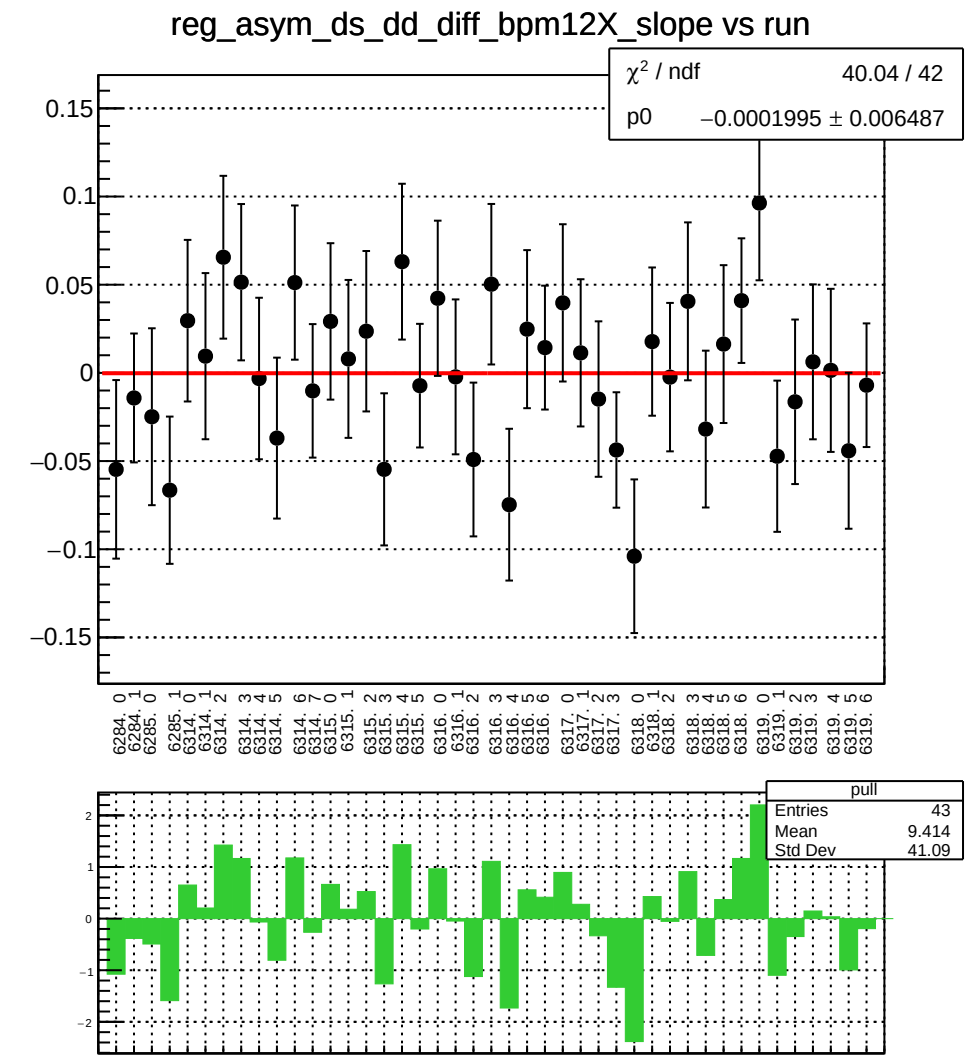

pull1D
Entries 43
Mean 0.007072
Std Dev 0.9926
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

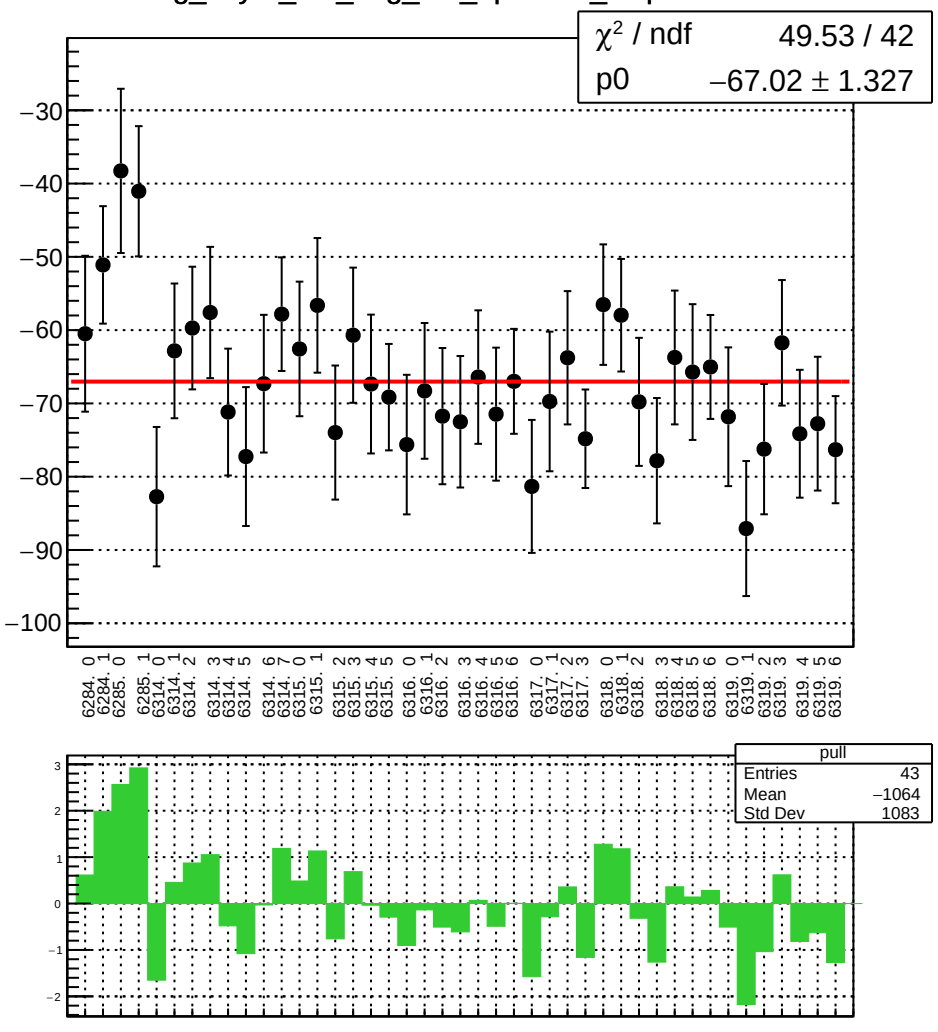

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.5 / 42
p0 0.3097 ± 0.1692
pull
Entries 43
Mean −1173
Std Dev 1111

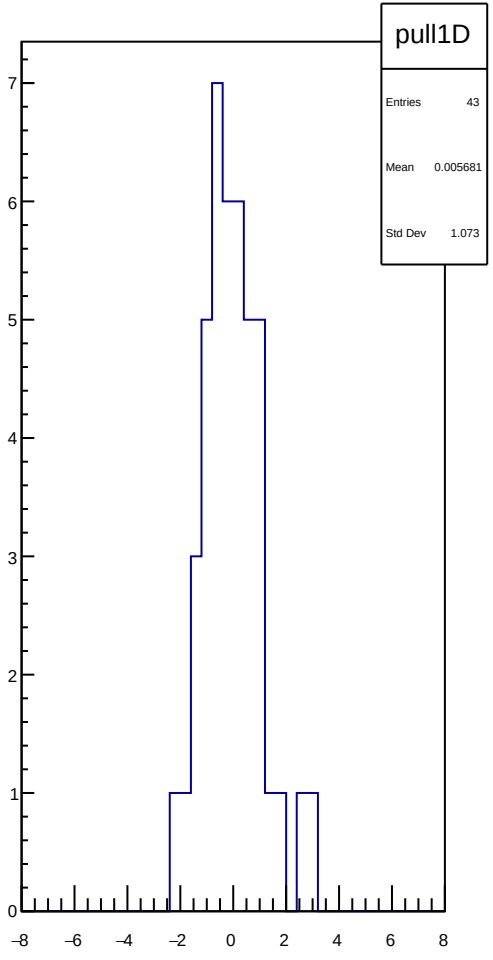

pull1D
Entries 43
Mean 0.000239
Std Dev 0.9824

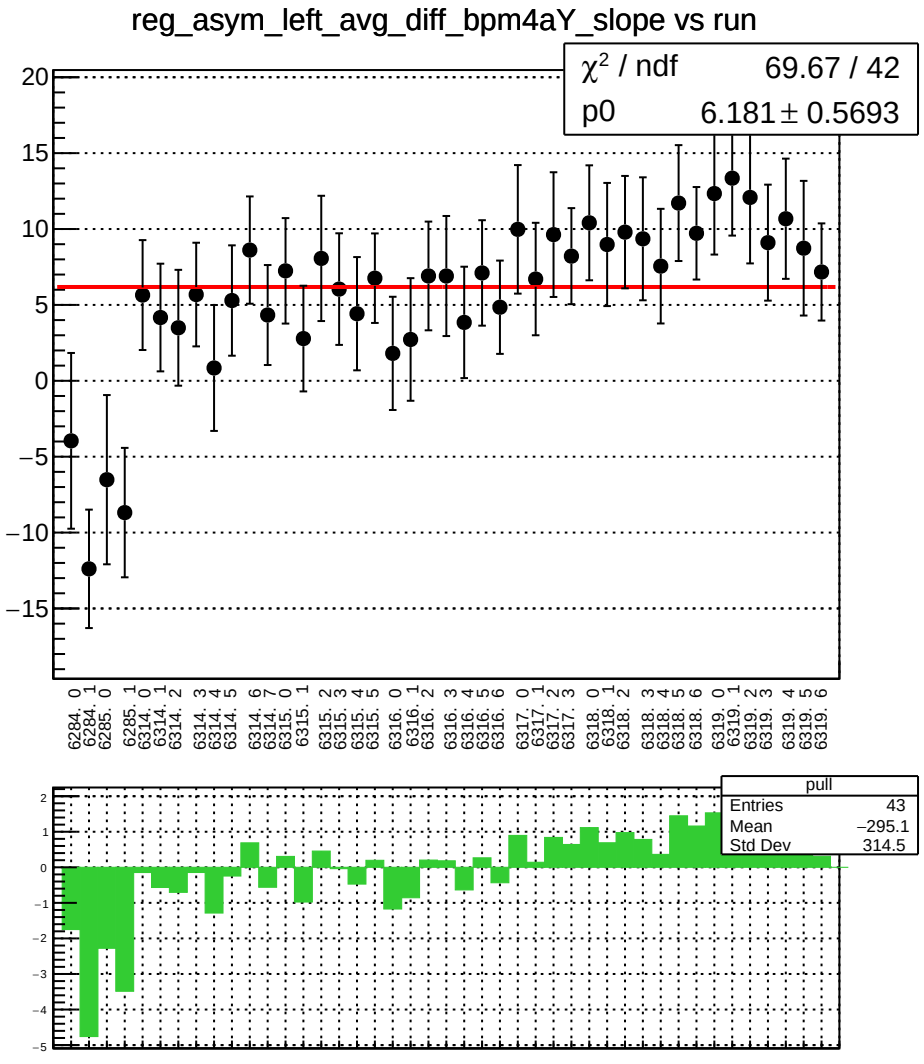

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.27 / 42
p0 0.0002114 ± 0.08269
pull
Entries 43
Mean −277.9
Std Dev 302.8

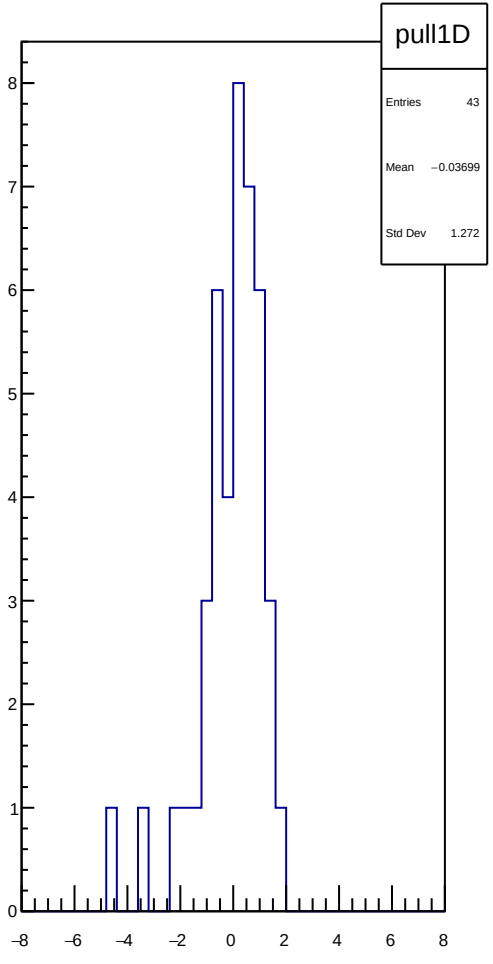

pull1D
Entries 43
Mean −0.01235
Std Dev 1.003

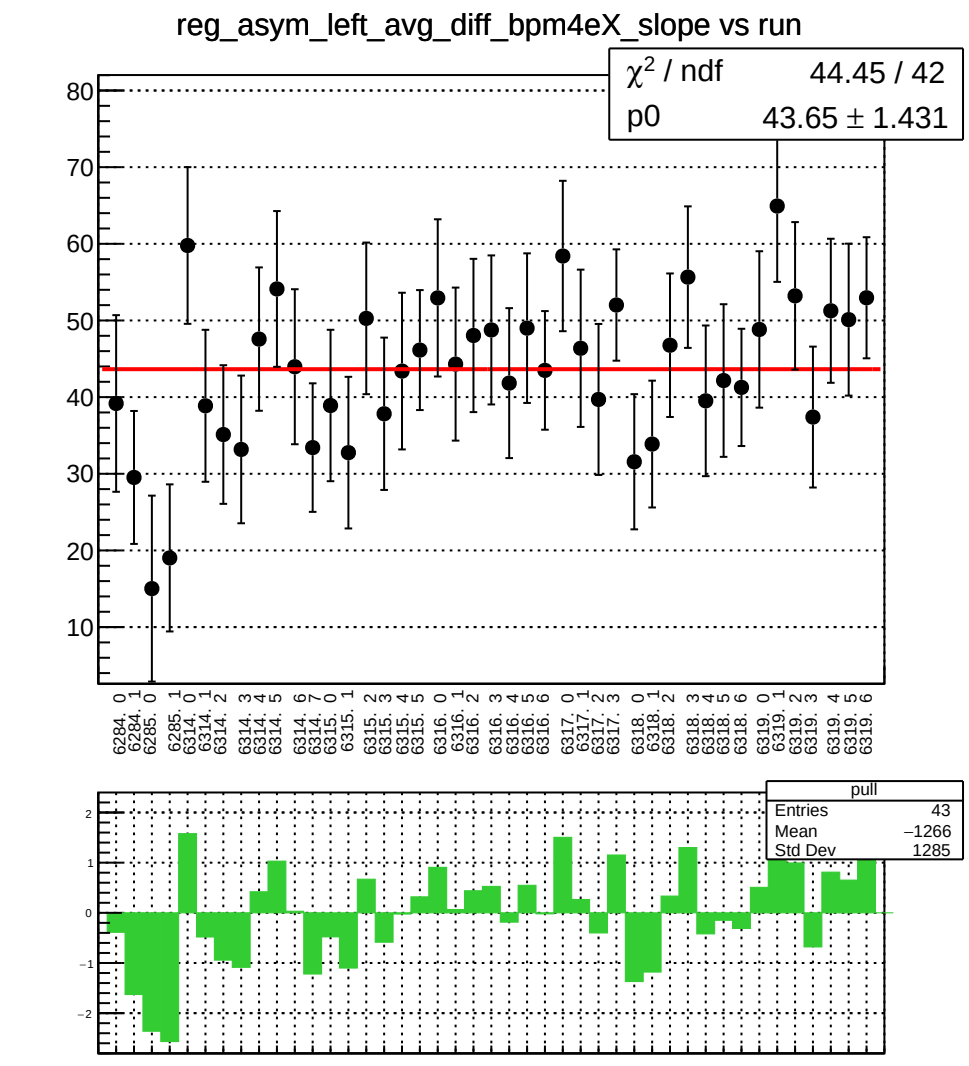

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 40.04 / 42
p0 −0.0001995 ± 0.006487
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 9.414
Std Dev 41.09
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00967
Std Dev 0.9649
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

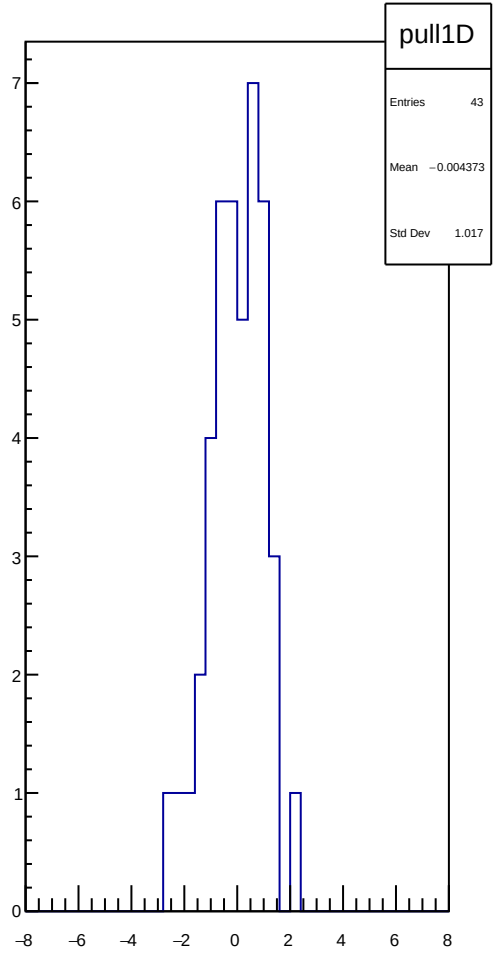

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 49.53 / 42
p0 −67.02 ± 1.327
pull
Entries 43
Mean −1064
Std Dev 1083

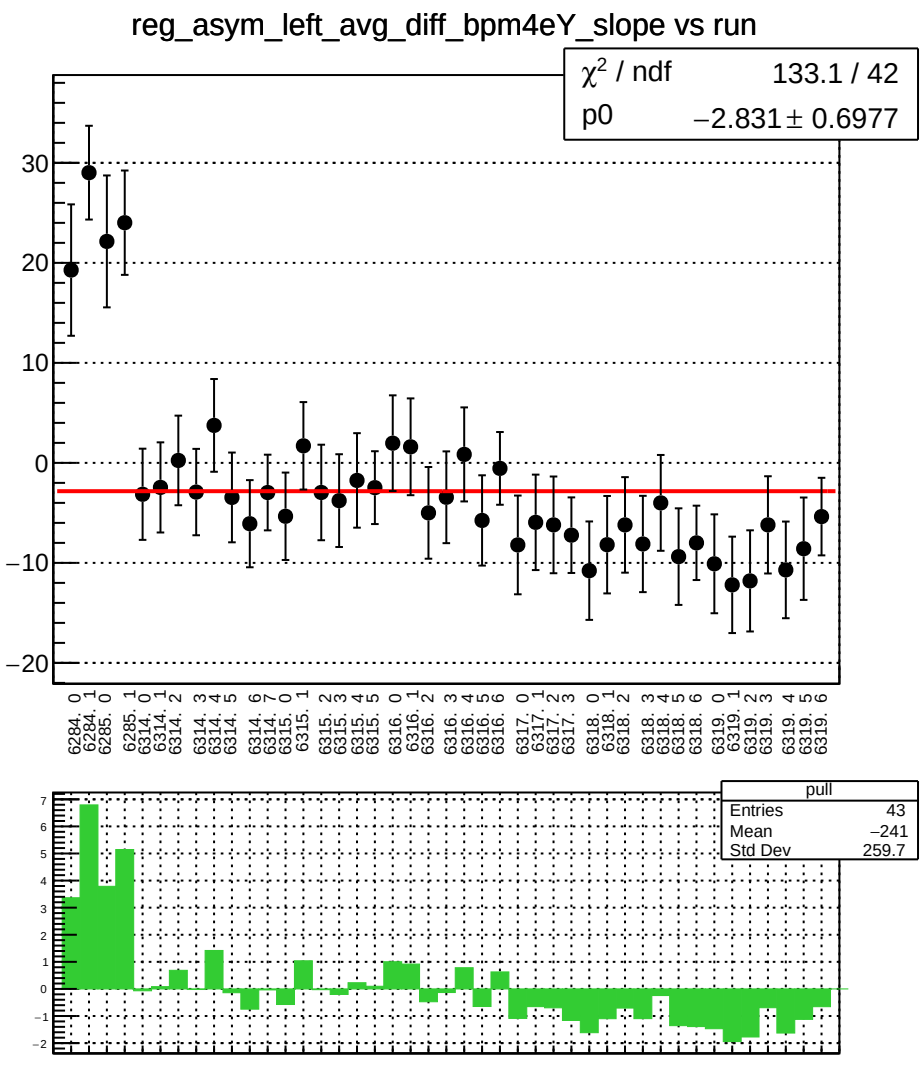

pull1D
Entries 43
Mean 0.005681
Std Dev 1.073

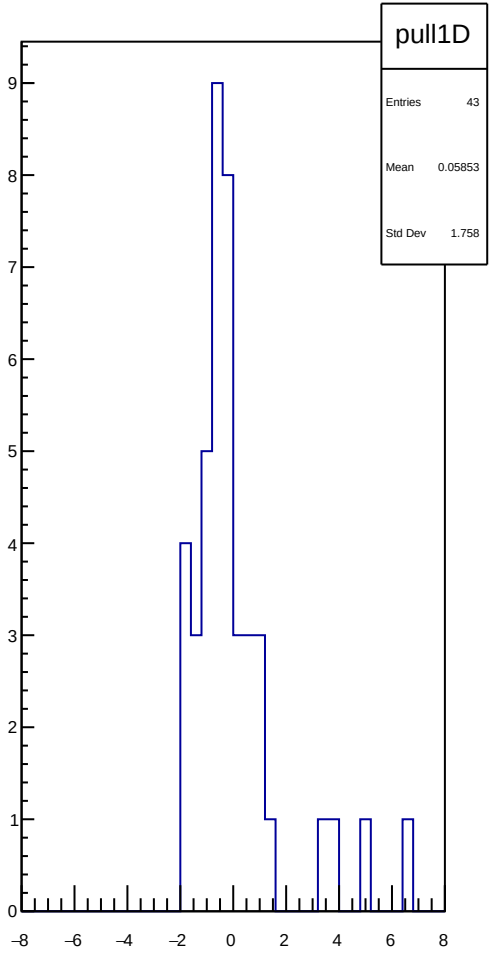

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.67 / 42
p0 6.181 ± 0.5693
pull
Entries 43
Mean −295.1
Std Dev 314.5

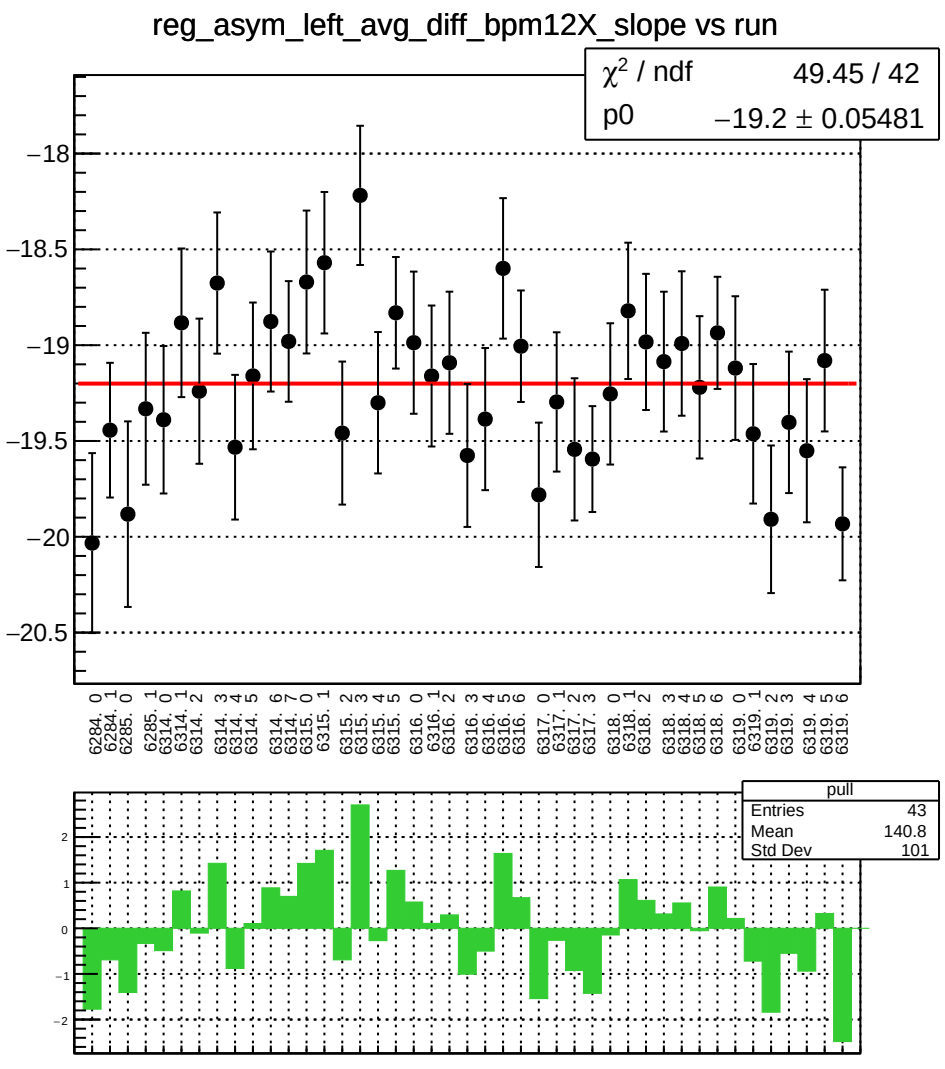

pull1D
Entries 43
Mean −0.03699
Std Dev 1.272

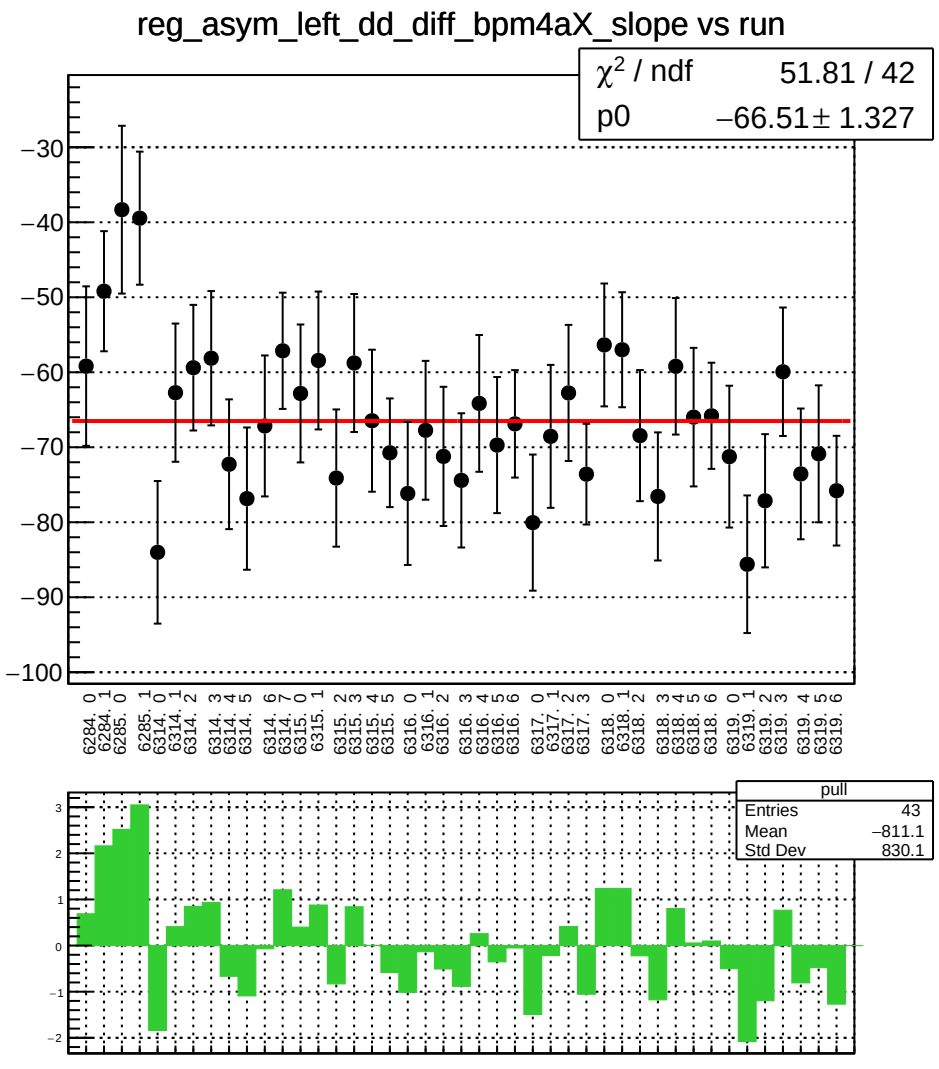

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.45 / 42
p0 43.65 ± 1.431
pull
Entries 43
Mean −1266
Std Dev 1285

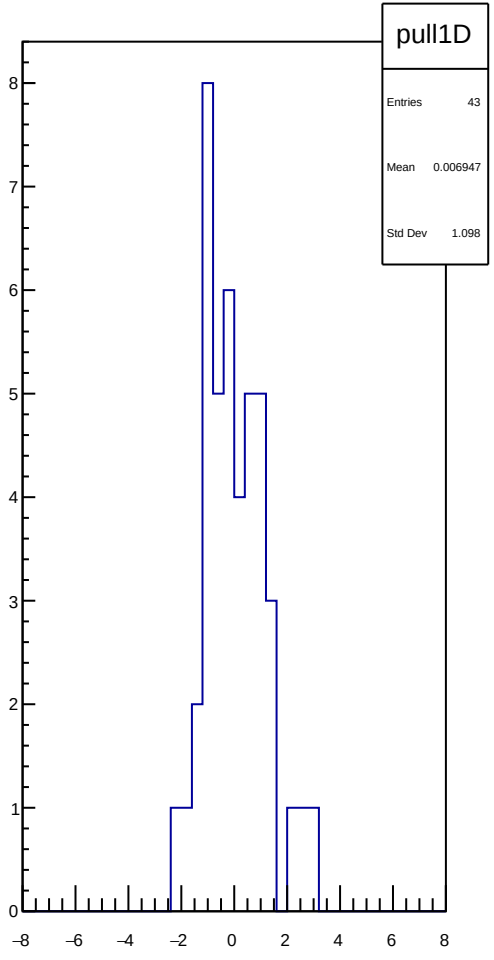

pull1D
Entries 43
Mean −0.004373
Std Dev 1.017

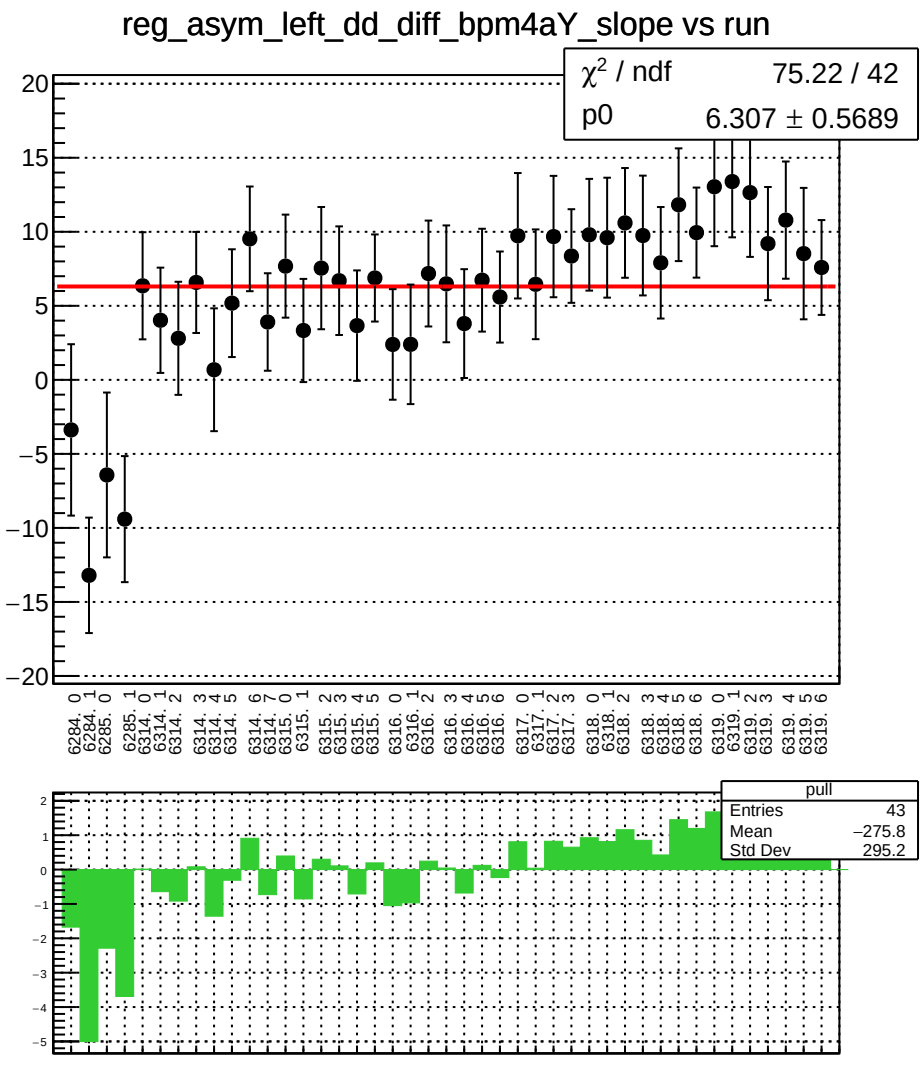

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 133.1 / 42
p0 −2.831 ± 0.6977
pull
Entries 43
Mean −241
Std Dev 259.7

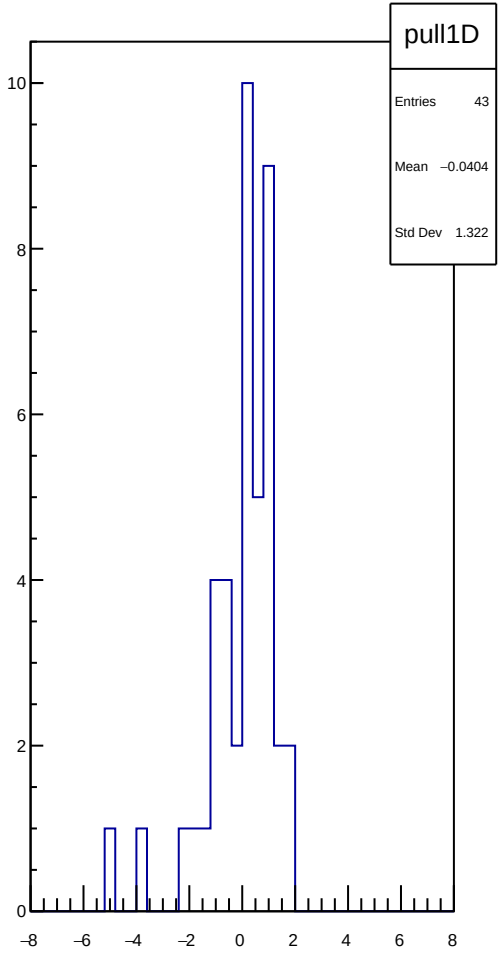

pull1D
Entries 43
Mean 0.05853
Std Dev 1.758

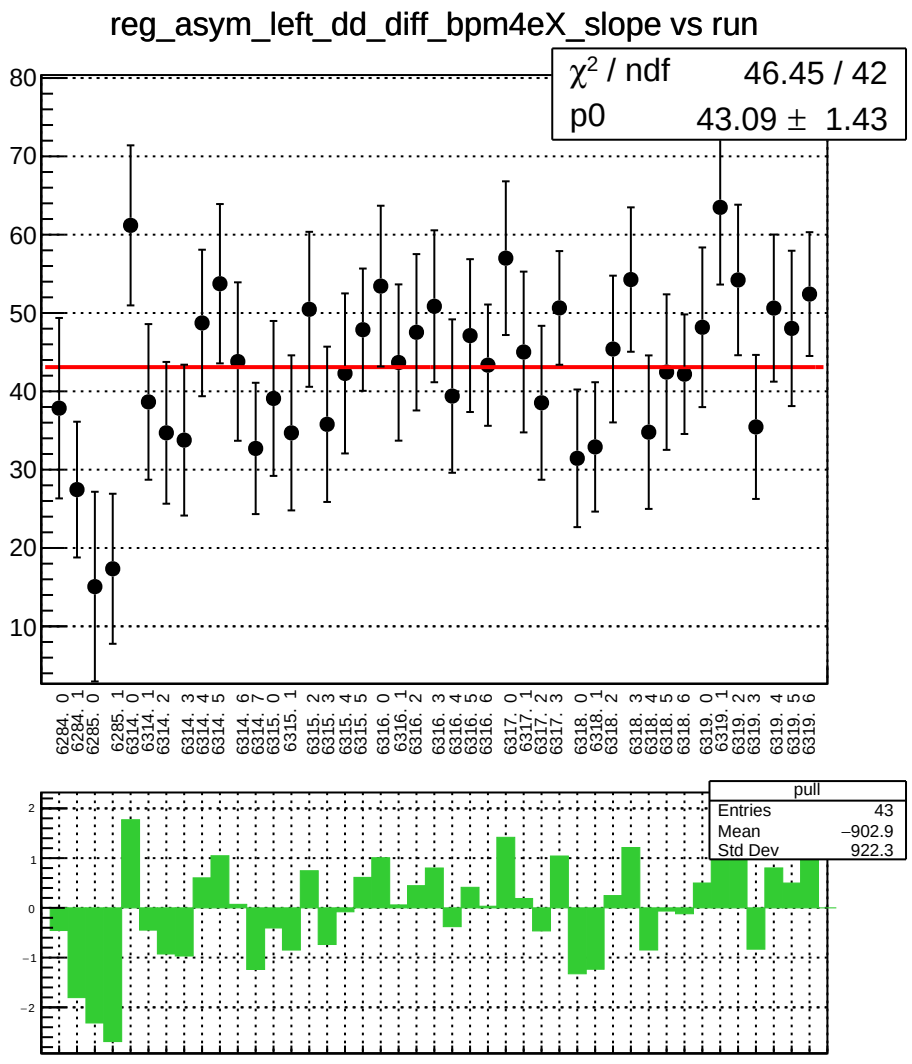

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 49.45 / 42
p0 −19.2 ± 0.05481
−18
−18.5
−19
−19.5
−20
−20.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 140.8
Std Dev 101
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0164
Std Dev 1.072
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

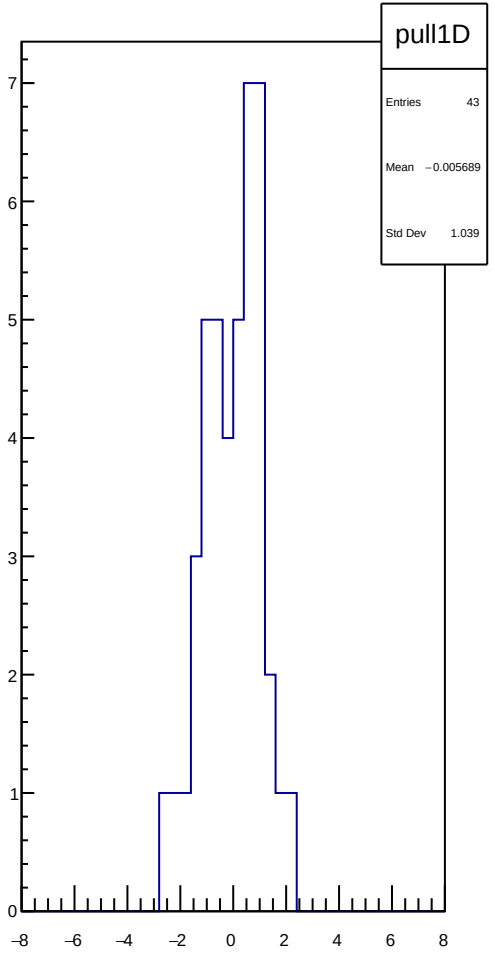

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 51.81 / 42
p0 −66.51 ± 1.327
pull
Entries 43
Mean −811.1
Std Dev 830.1

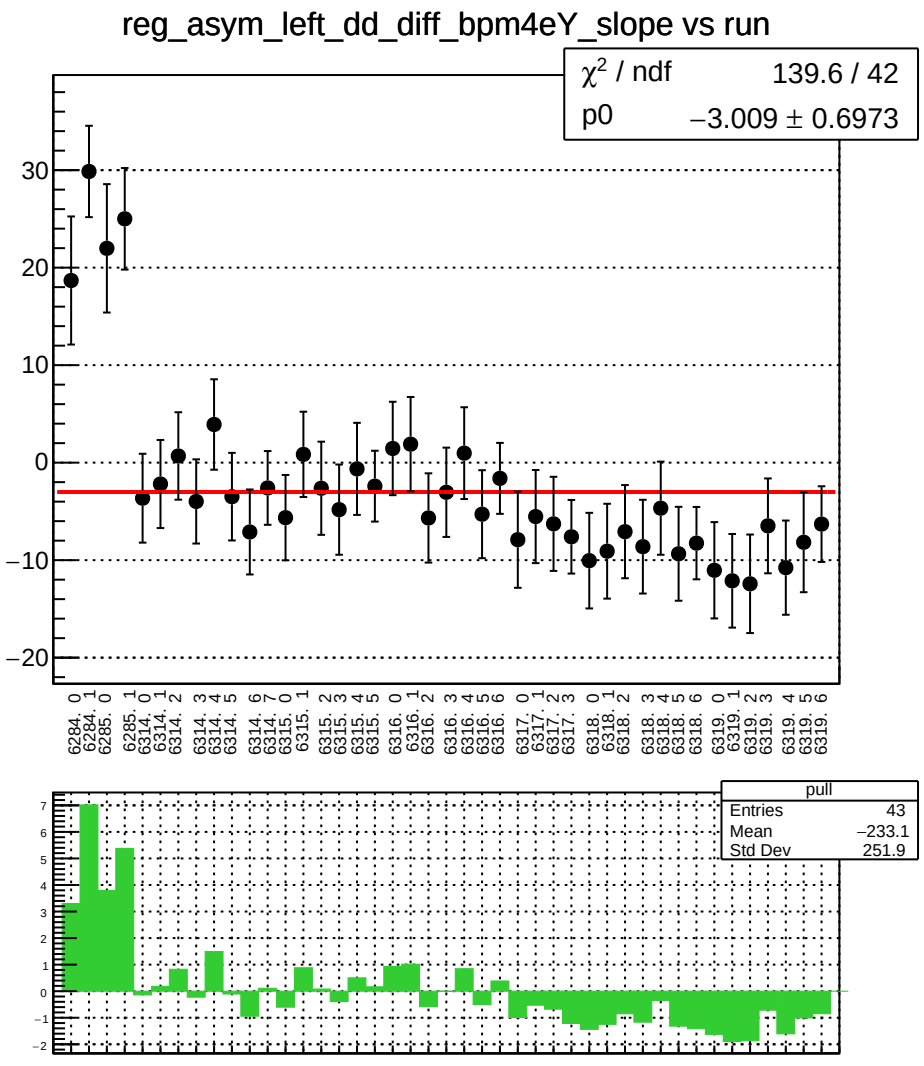

pull1D
Entries 43
Mean 0.006947
Std Dev 1.098

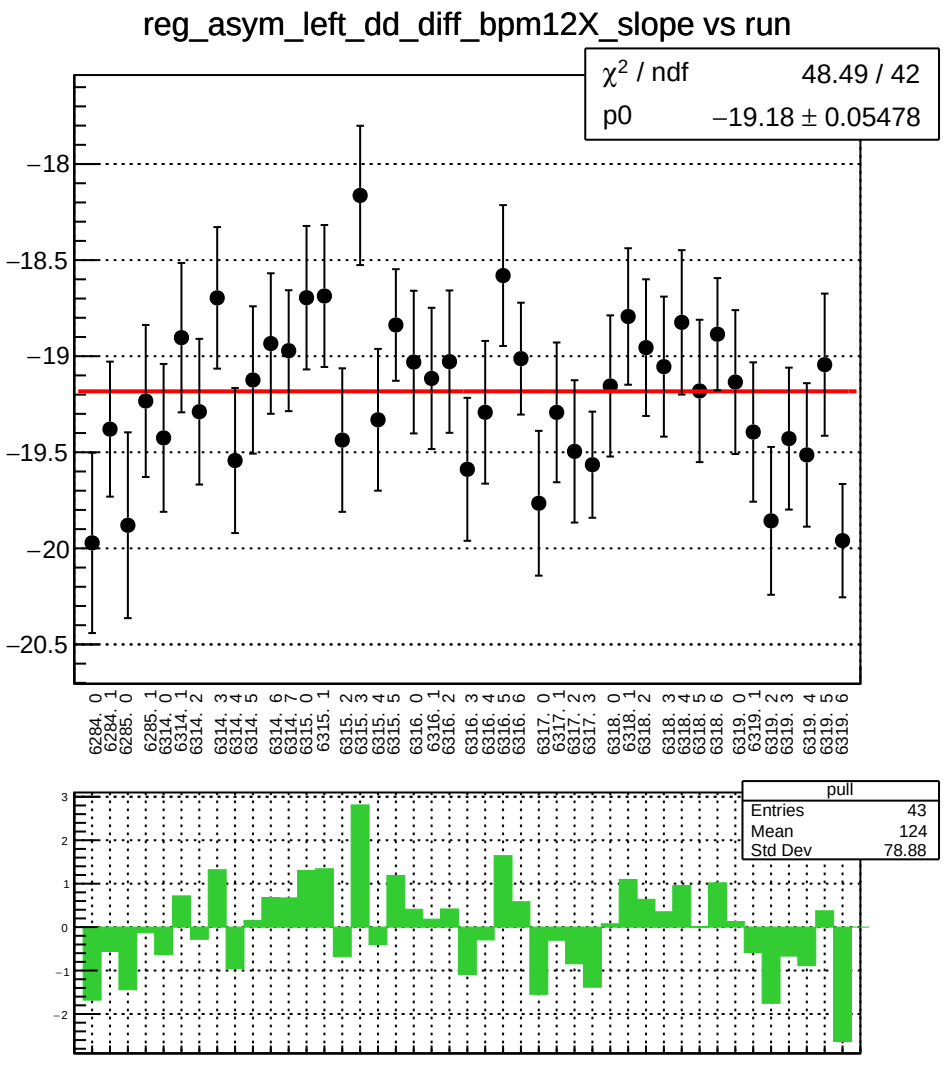

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.22 / 42
p0 6.307 ± 0.5689
pull
Entries 43
Mean −275.8
Std Dev 295.2

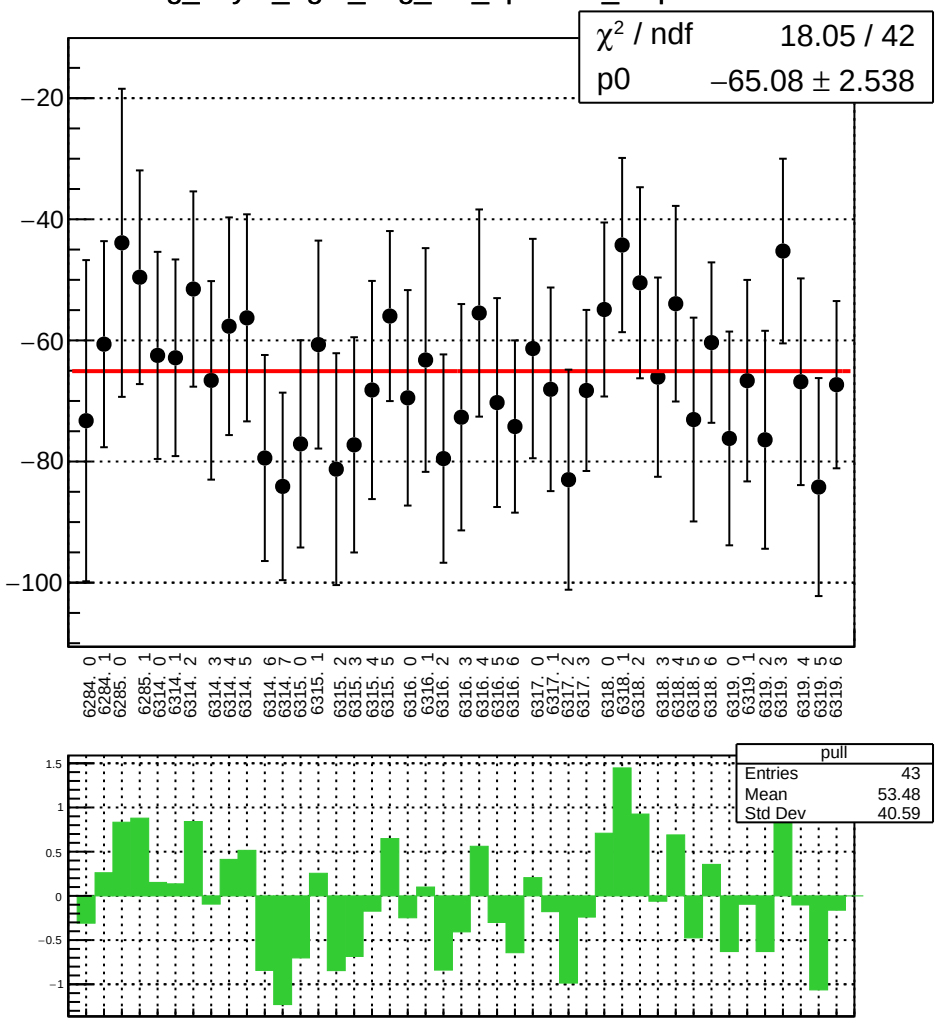

pull1D
Entries 43
Mean −0.0404
Std Dev 1.322

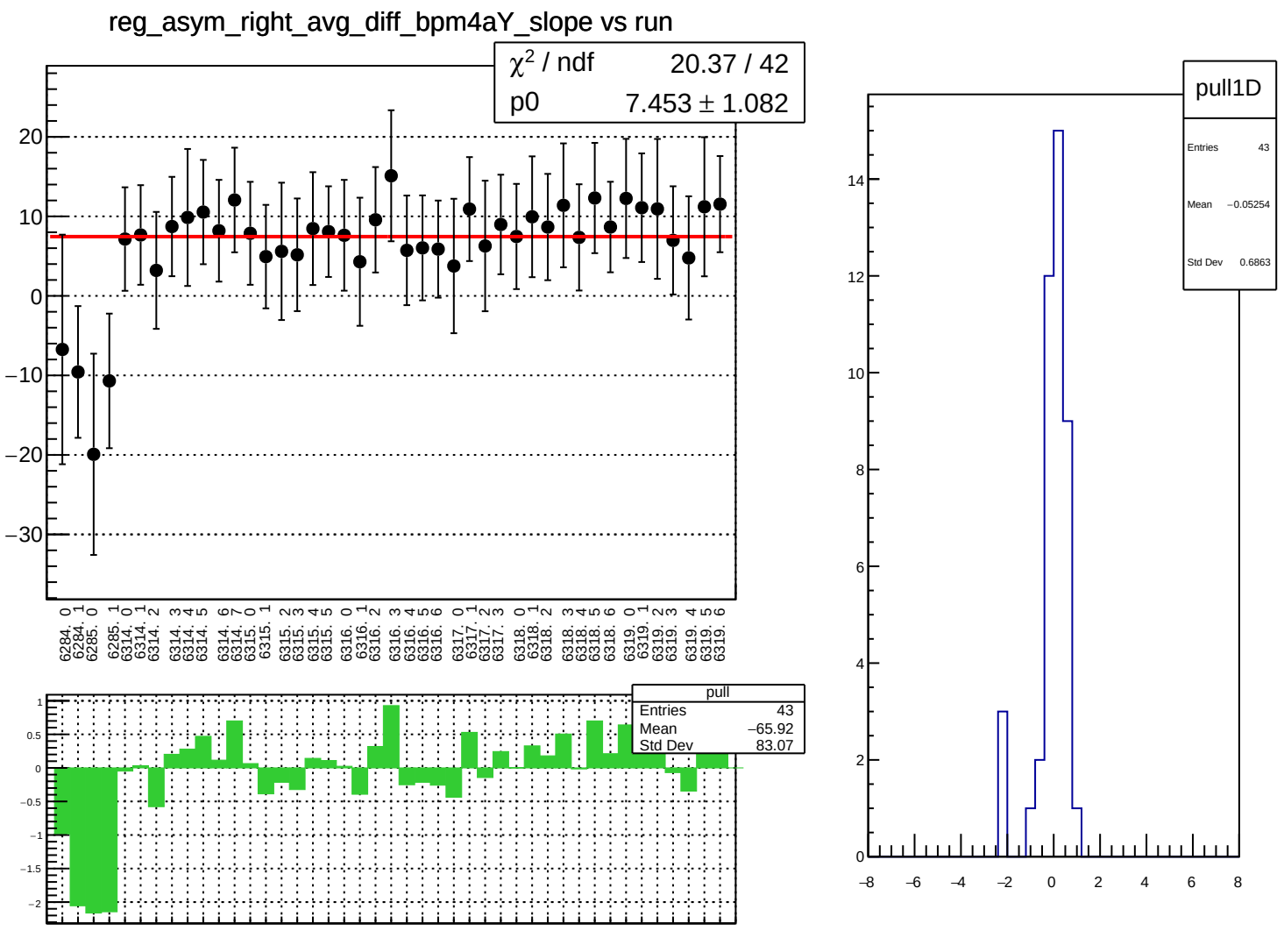

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.45 / 42
p0 43.09 ± 1.43
pull
Entries 43
Mean −902.9
Std Dev 922.3

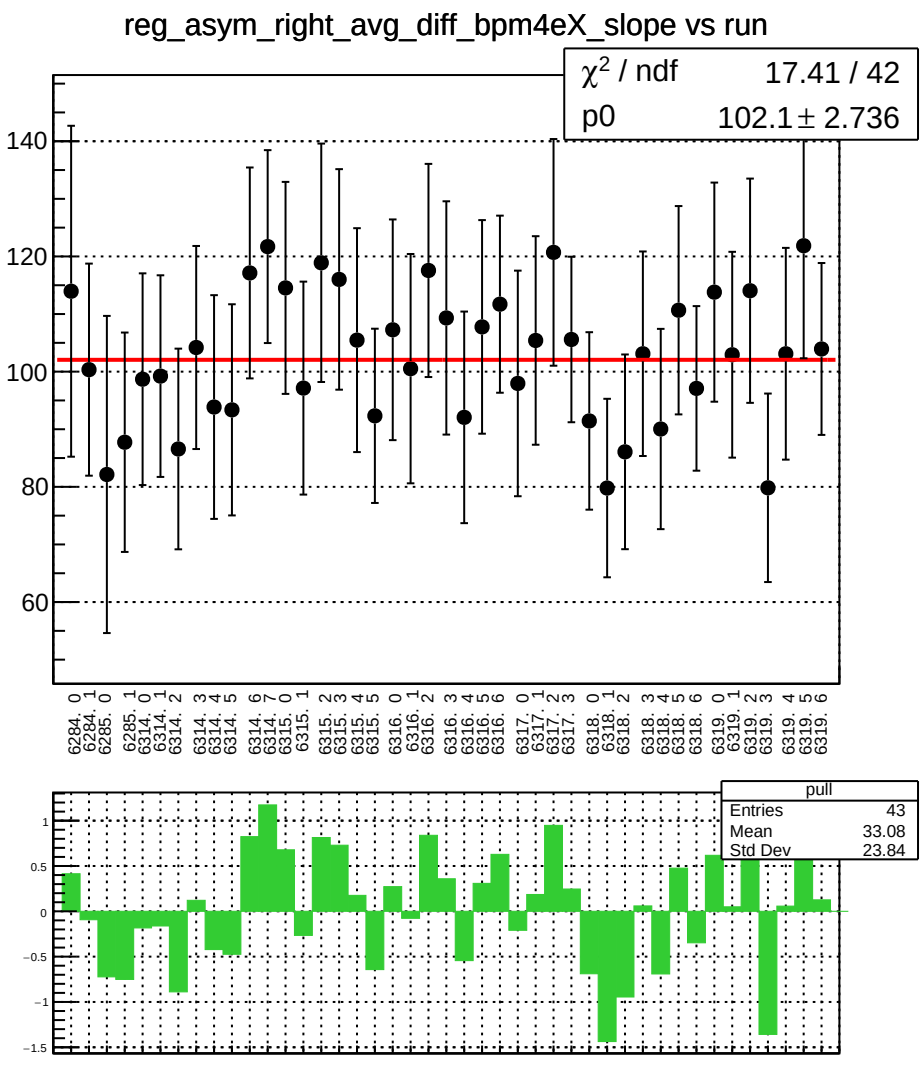

pull1D
Entries 43
Mean −0.005689
Std Dev 1.039

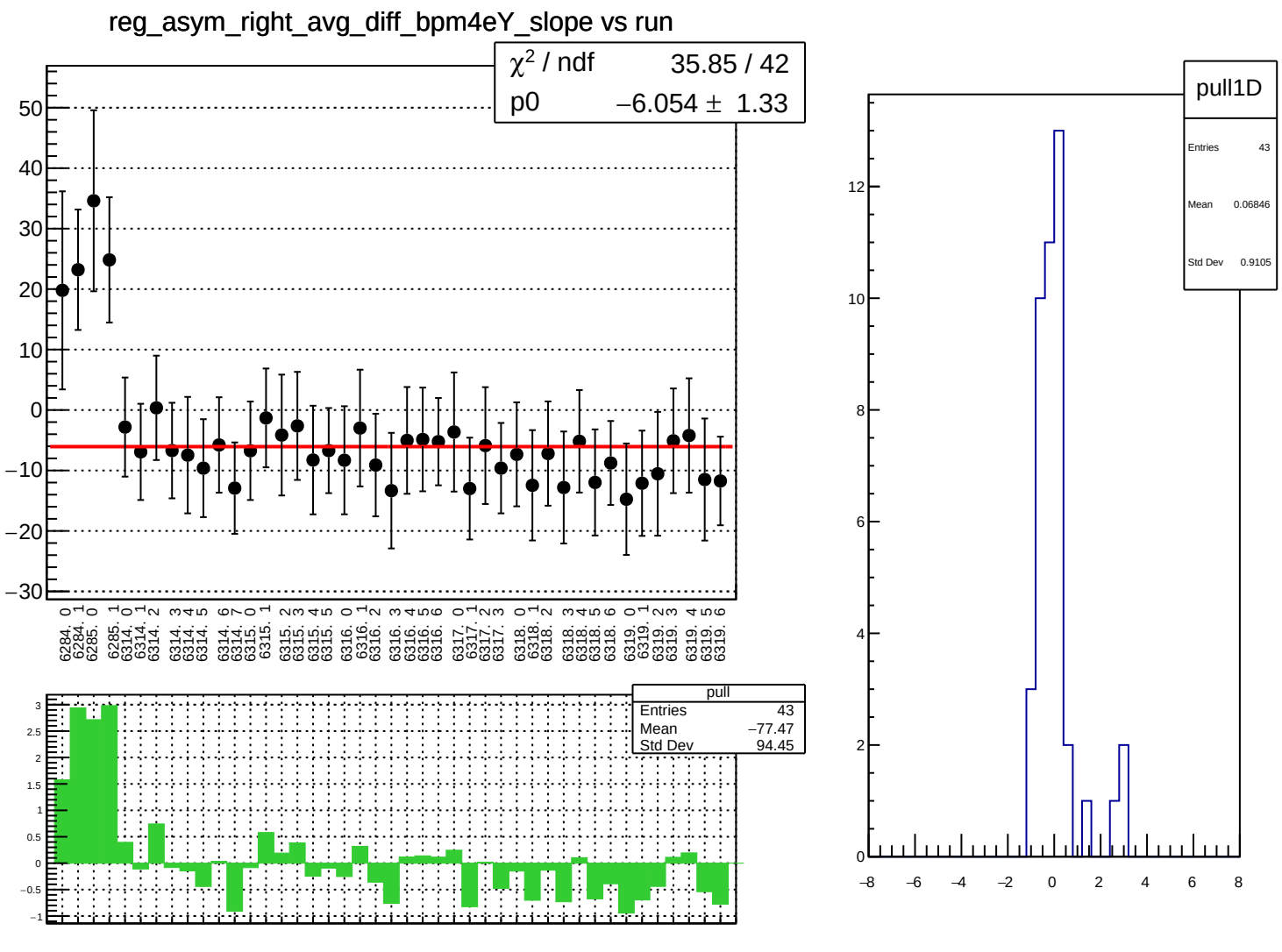

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 139.6 / 42
p0 −3.009 ± 0.6973
30
20
10
0
−10
−20
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −233.1
Std Dev 251.9
7
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.06171
Std Dev 1.801
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

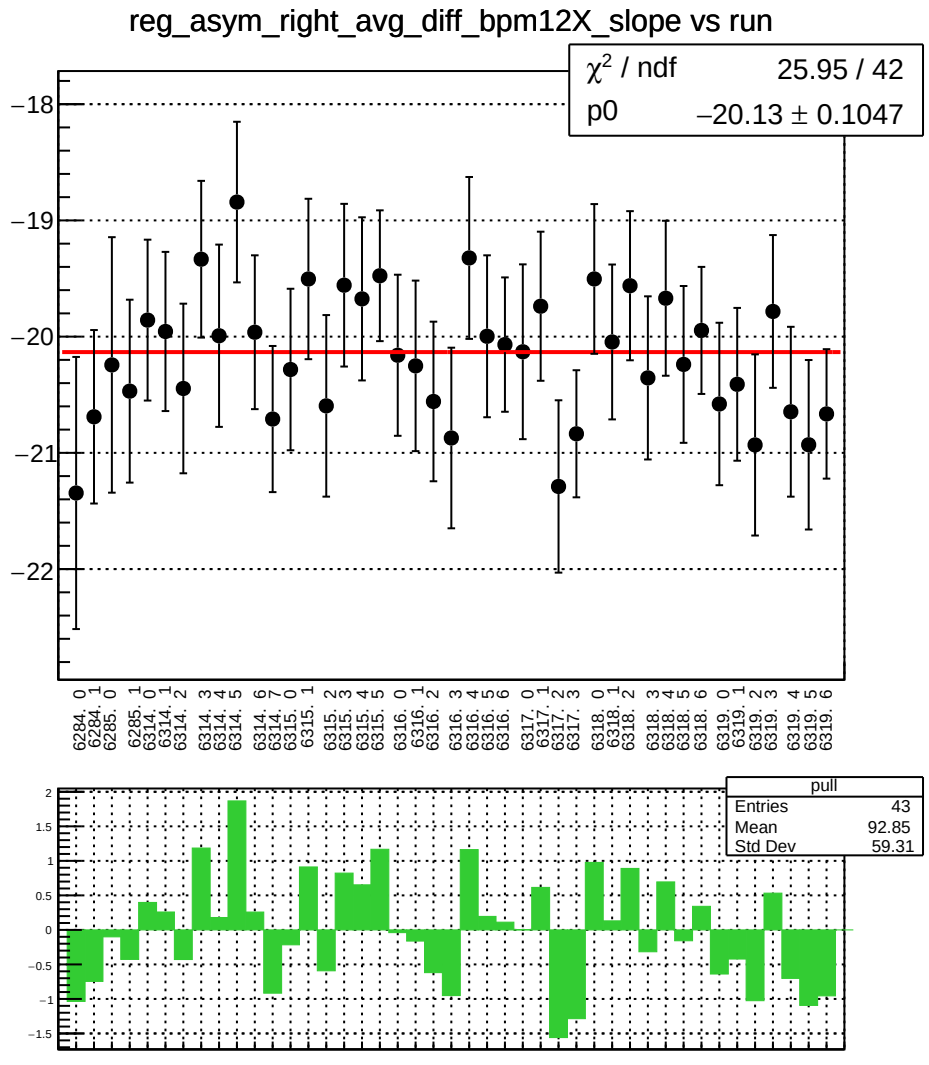

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 48.49 / 42
p0 −19.18 ± 0.05478
−18
−18.5
−19
−19.5
−20
−20.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 124
Std Dev 78.88
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01519
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

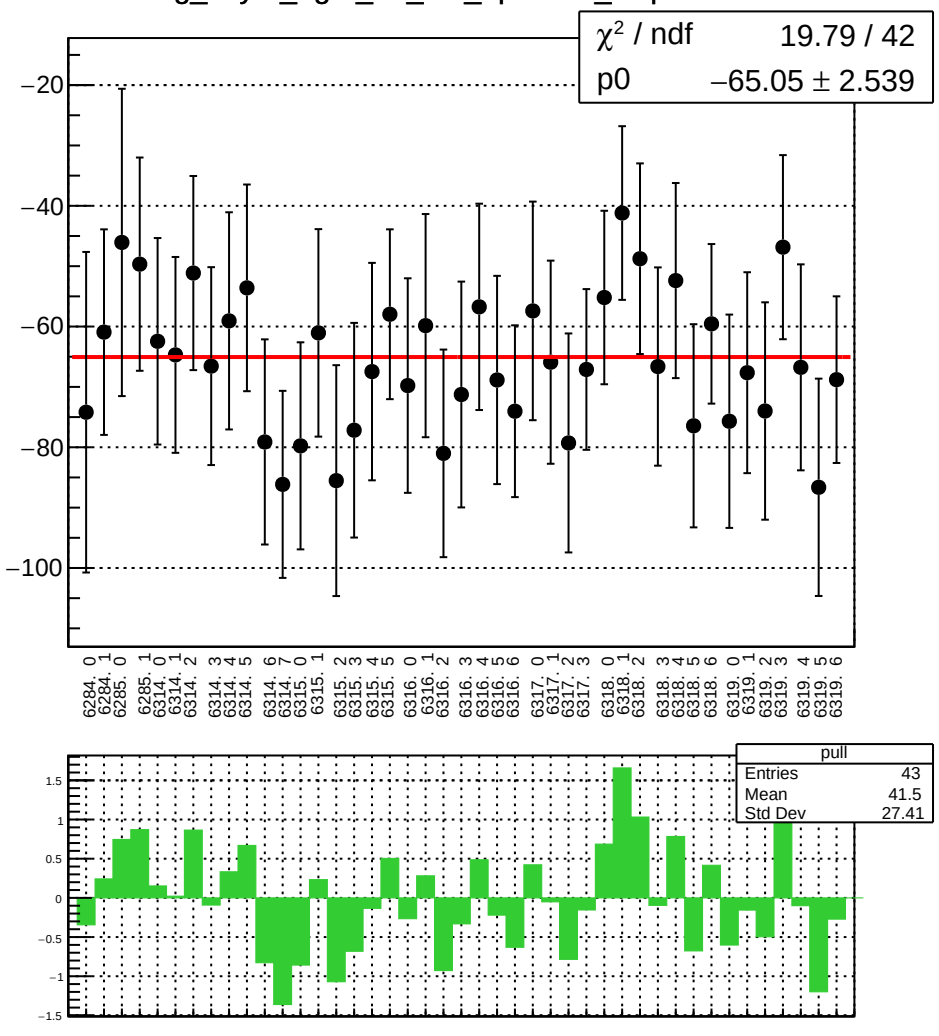

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.05 / 42
p0 −65.08 ± 2.538
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 53.48
Std Dev 40.59
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01645
Std Dev 0.6476
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

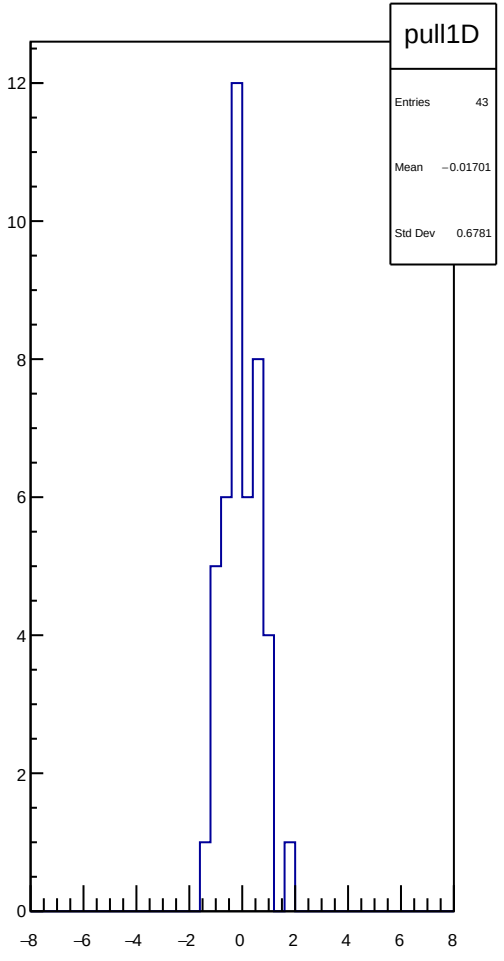

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.37 / 42
p0 7.453 ± 1.082
pull
Entries 43
Mean −65.92
Std Dev 83.07
pull1D
Entries 43
Mean −0.05254
Std Dev 0.6863

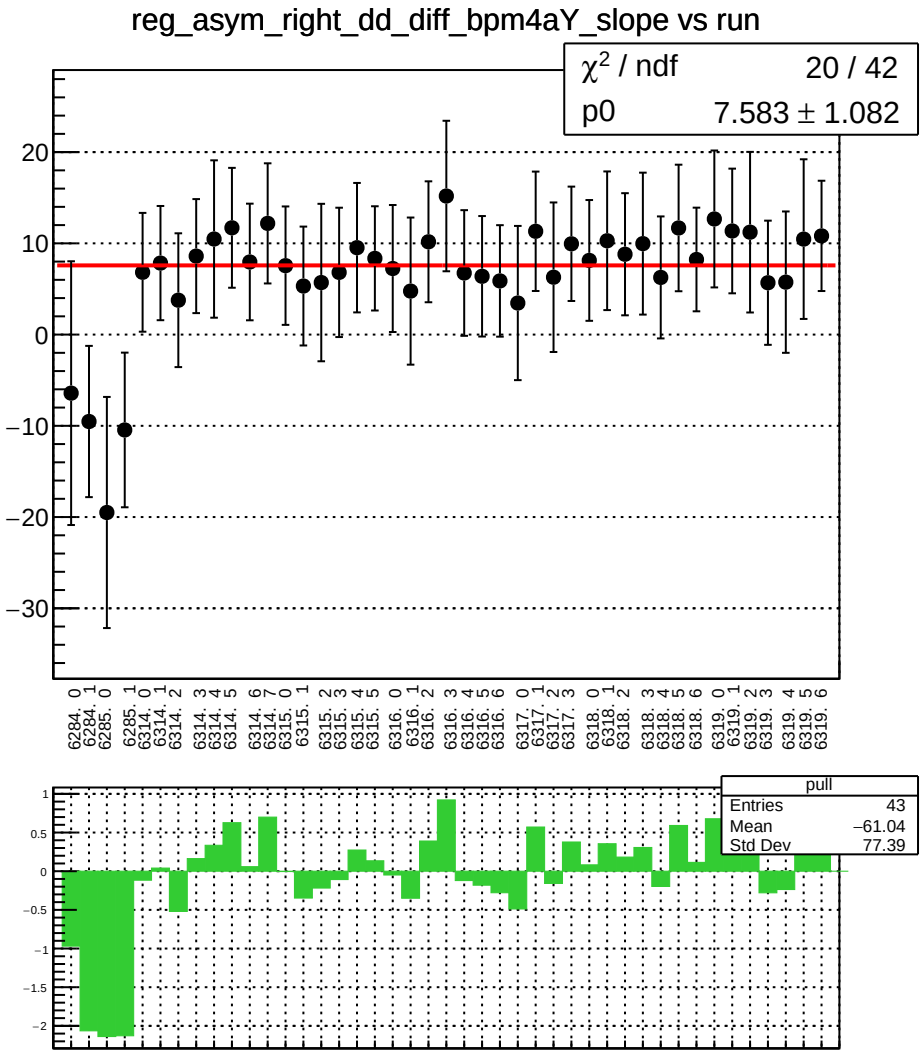

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.41 / 42
p0 102.1 ± 2.736
140
120
100
80
60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 33.08
Std Dev 23.84
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0193
Std Dev 0.636
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

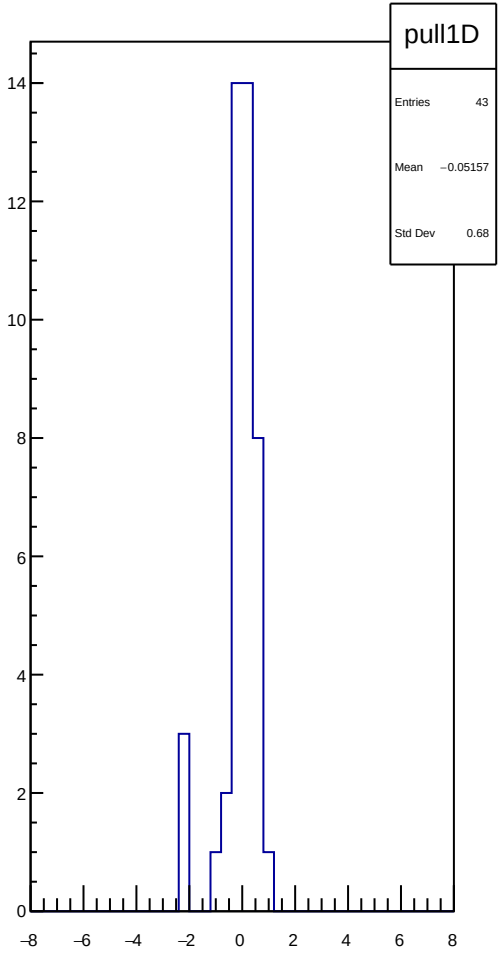

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.85 / 42
p0 −6.054 ± 1.33
pull
Entries 43
Mean −77.47
Std Dev 94.45
pull1D
Entries 43
Mean 0.06846
Std Dev 0.9105

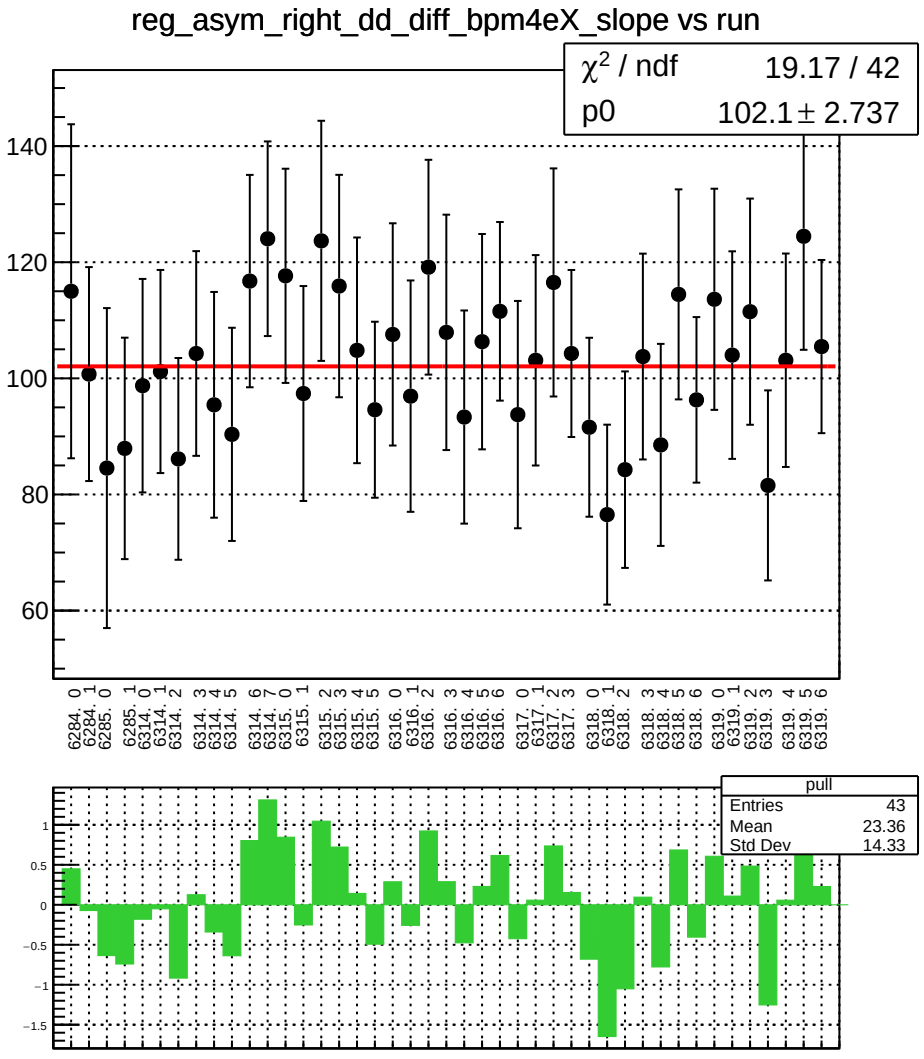

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 25.95 / 42
p0 −20.13 ± 0.1047
−18
−19
−20
−21
−22
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 92.85
Std Dev 59.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02398
Std Dev 0.7764
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

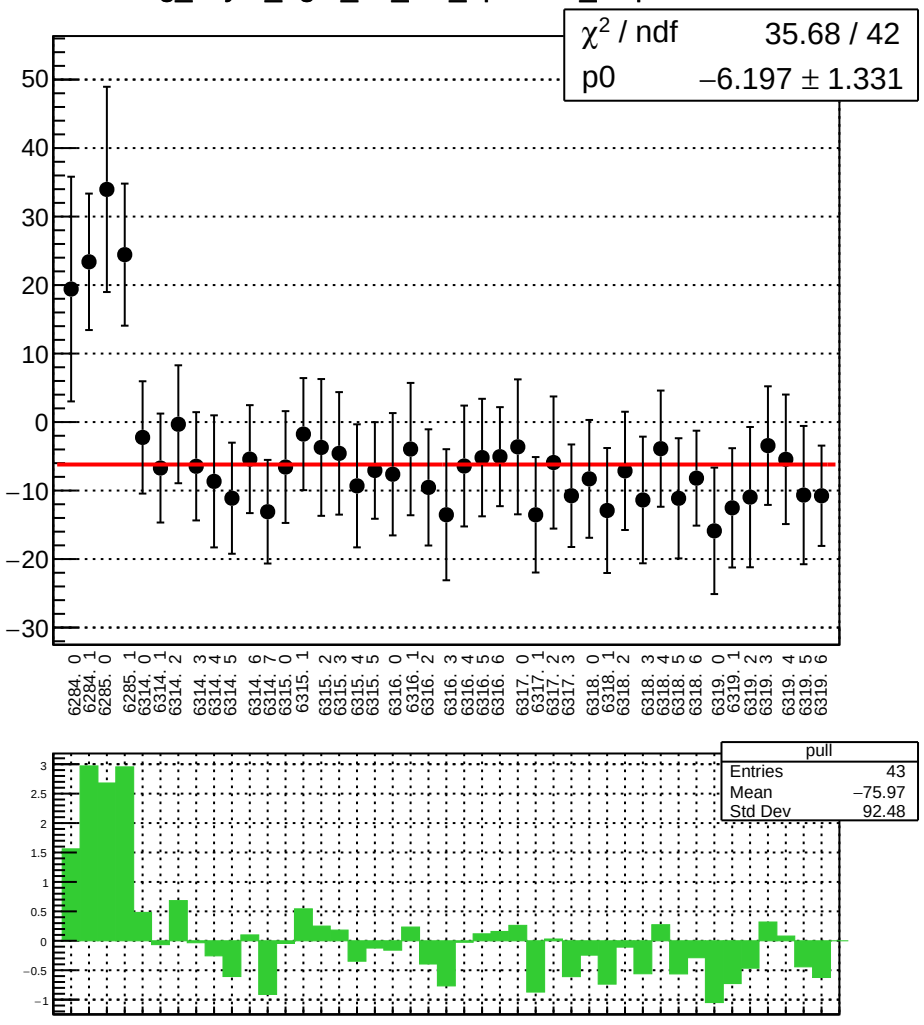

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.79 / 42
p0 −65.05 ± 2.539
pull
Entries 43
Mean 41.5
Std Dev 27.41

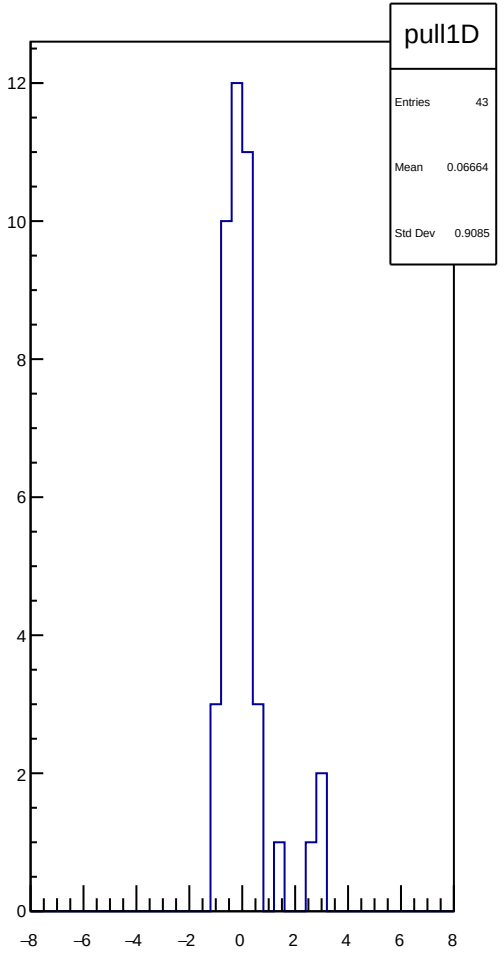

pull1D
Entries 43
Mean −0.01701
Std Dev 0.6781

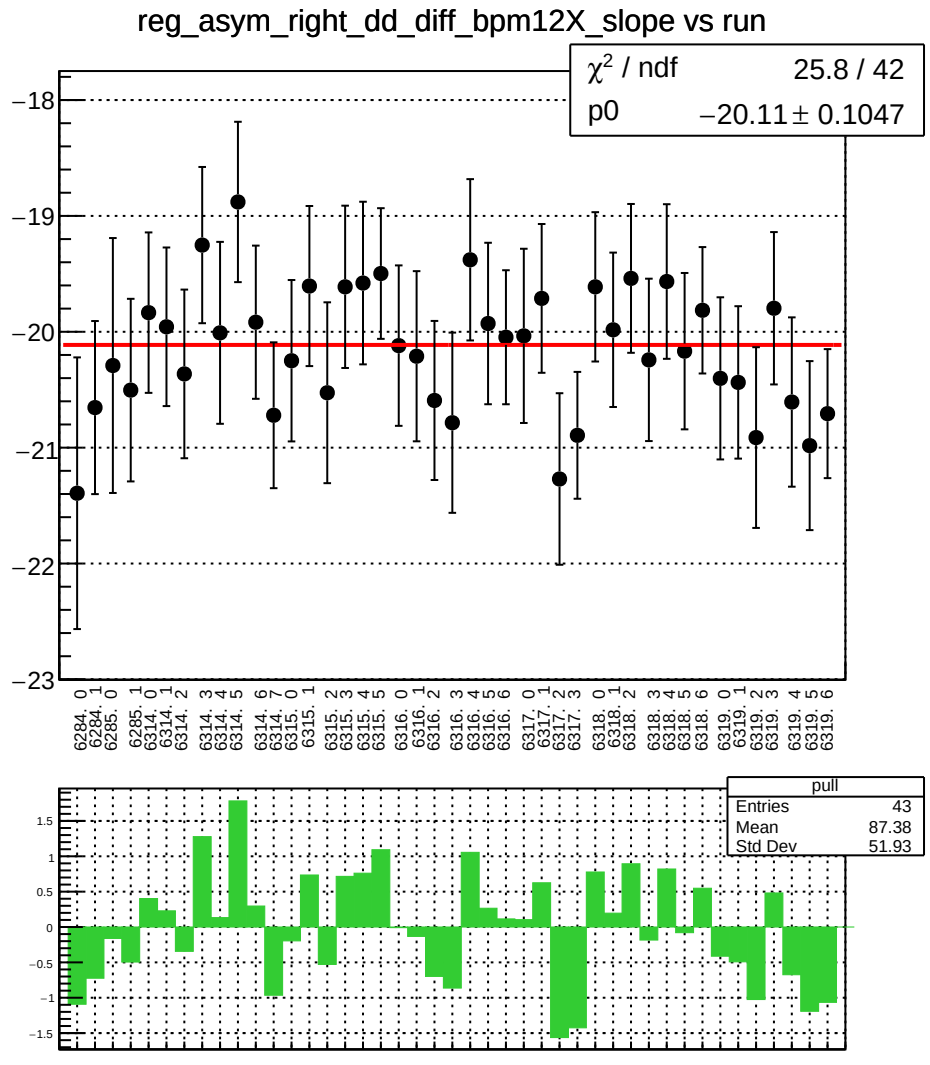

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 20 / 42
p0 7.583 ± 1.082
pull
Entries 43
Mean −61.04
Std Dev 77.39

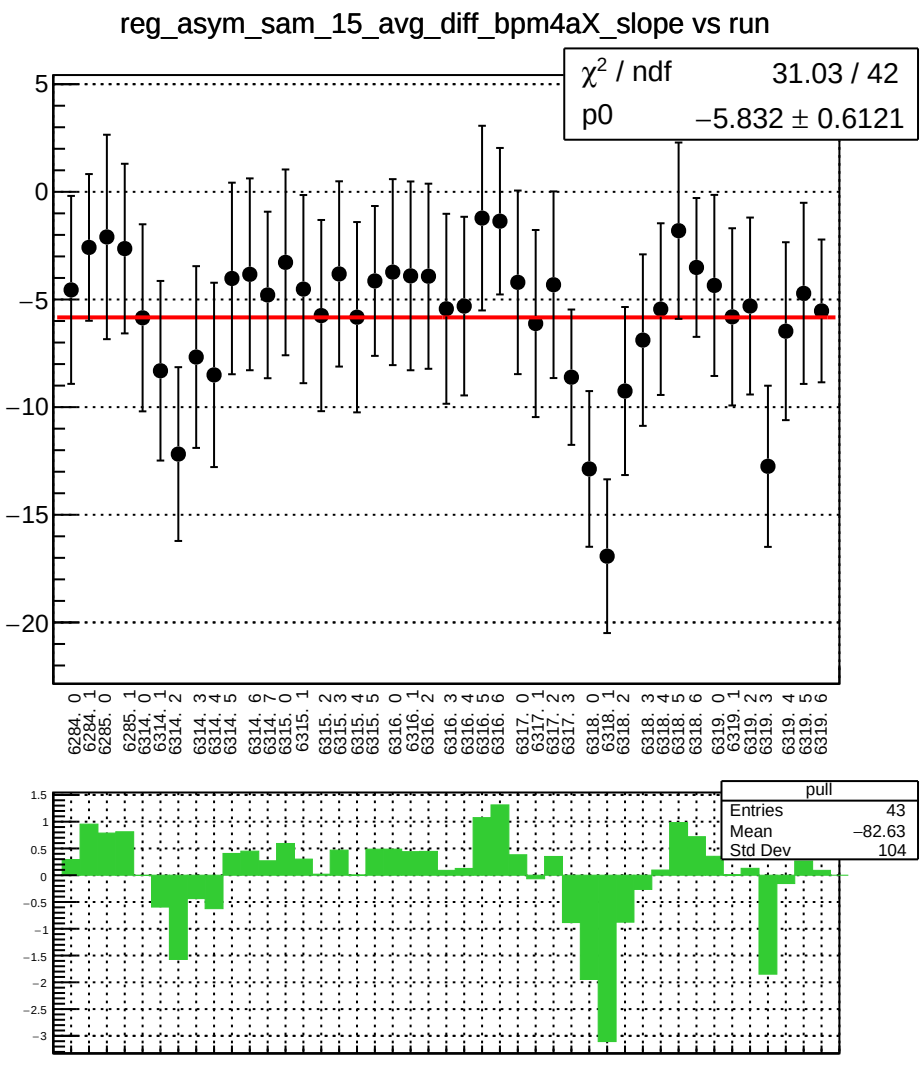

pull1D
Entries 43
Mean −0.05157
Std Dev 0.68

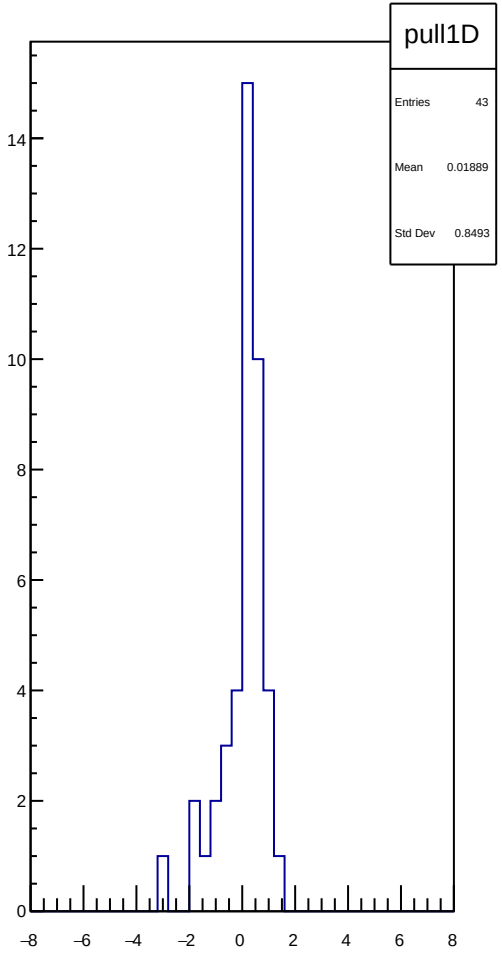

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.17 / 42
p0 102.1 ± 2.737
140
120
100
80
60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 23.36
Std Dev 14.33
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01997
Std Dev 0.6674
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

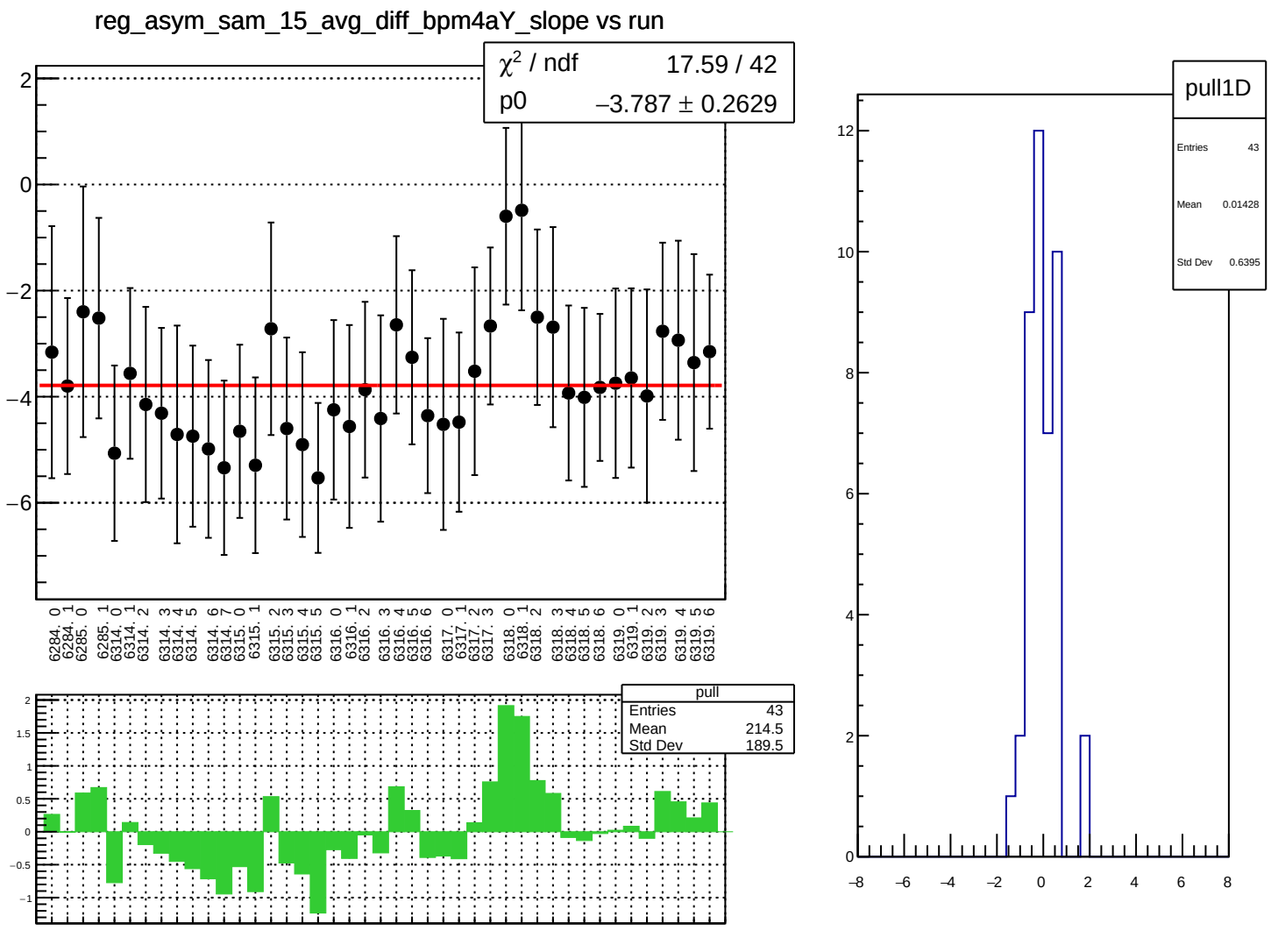

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.68 / 42
p0 −6.197 ± 1.331
pull
Entries 43
Mean −75.97
Std Dev 92.48

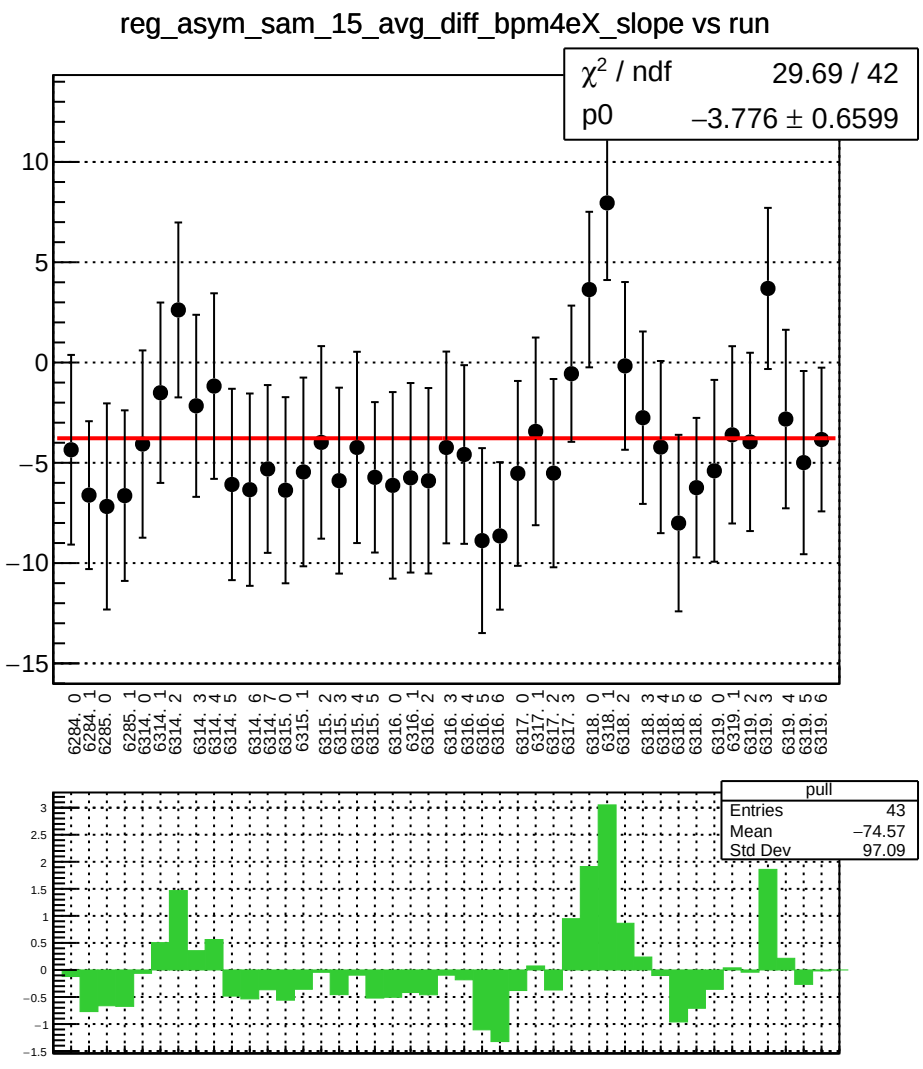

pull1D
Entries 43
Mean 0.06664
Std Dev 0.9085

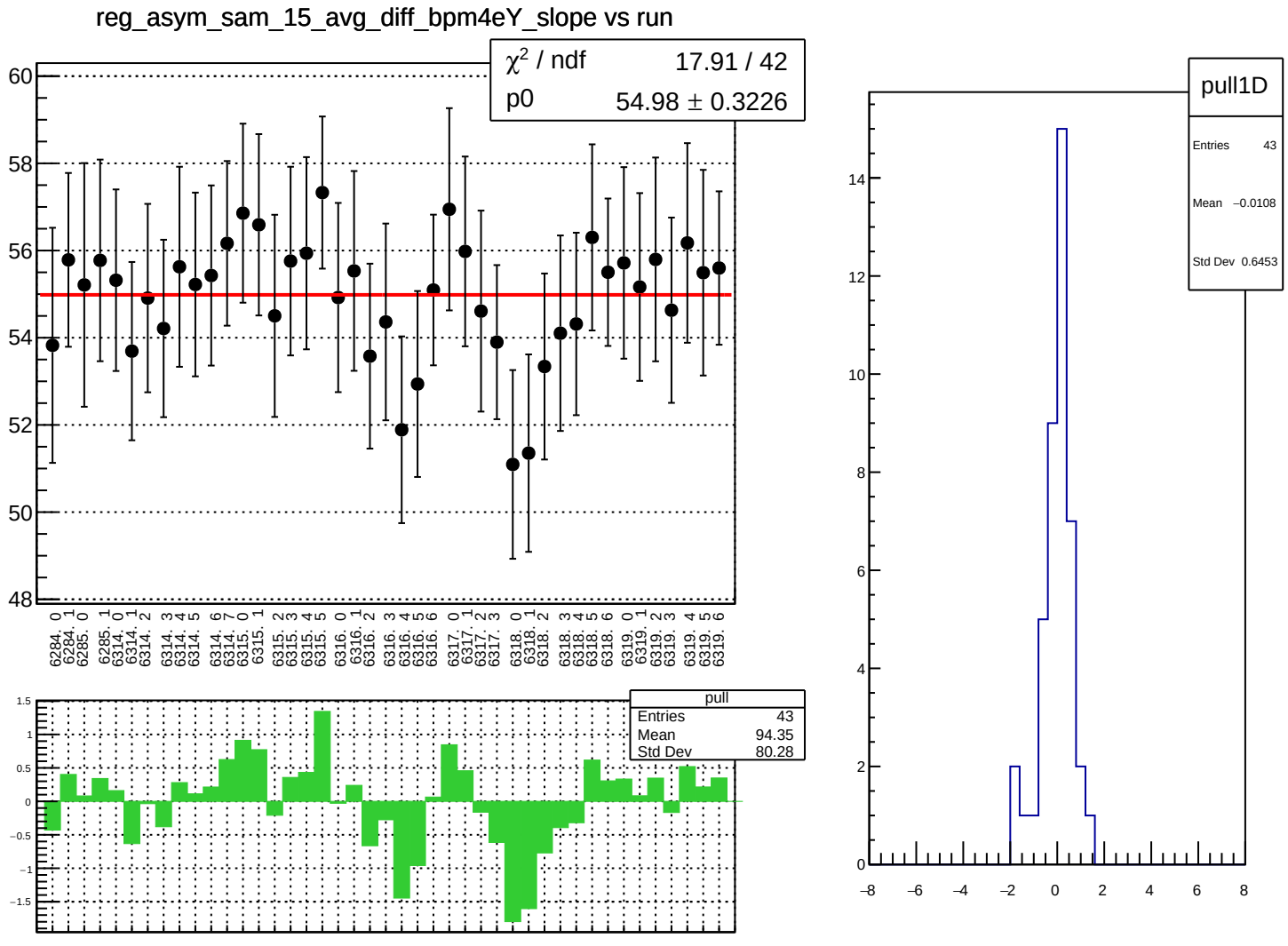

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 25.8 / 42
p0 −20.11 ± 0.1047
−18
−19
−20
−21
−22
−23
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 87.38
Std Dev 51.93
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02359
Std Dev 0.7742
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

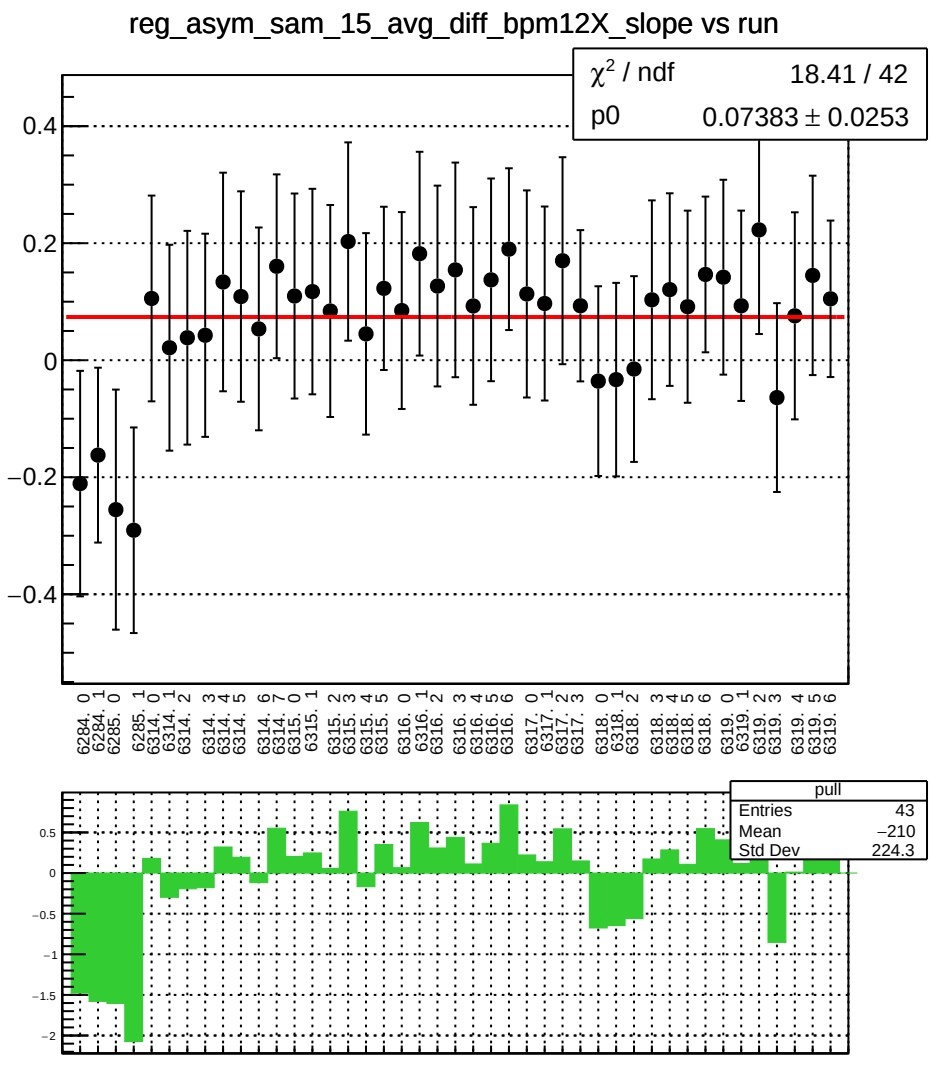

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.03 / 42
p0 −5.832 ± 0.6121
pull
Entries 43
Mean −82.63
Std Dev 104

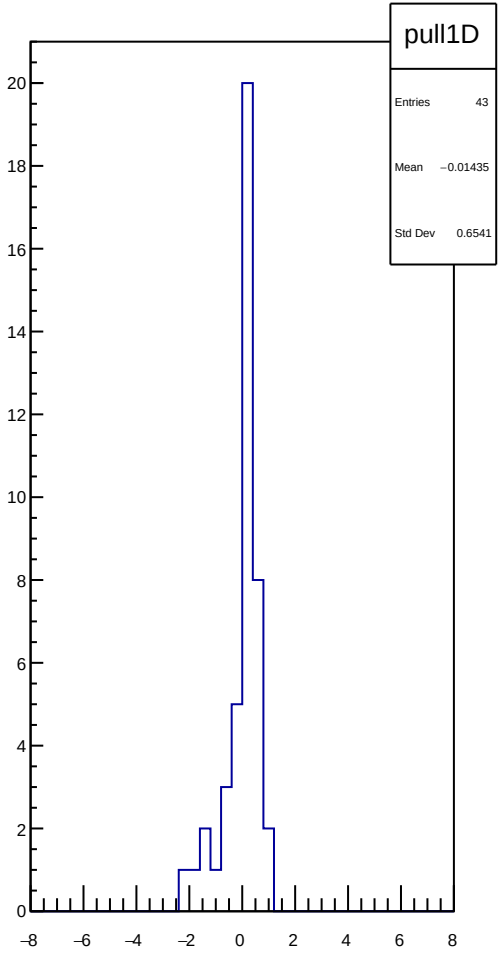

pull1D
Entries 43
Mean 0.01889
Std Dev 0.8493

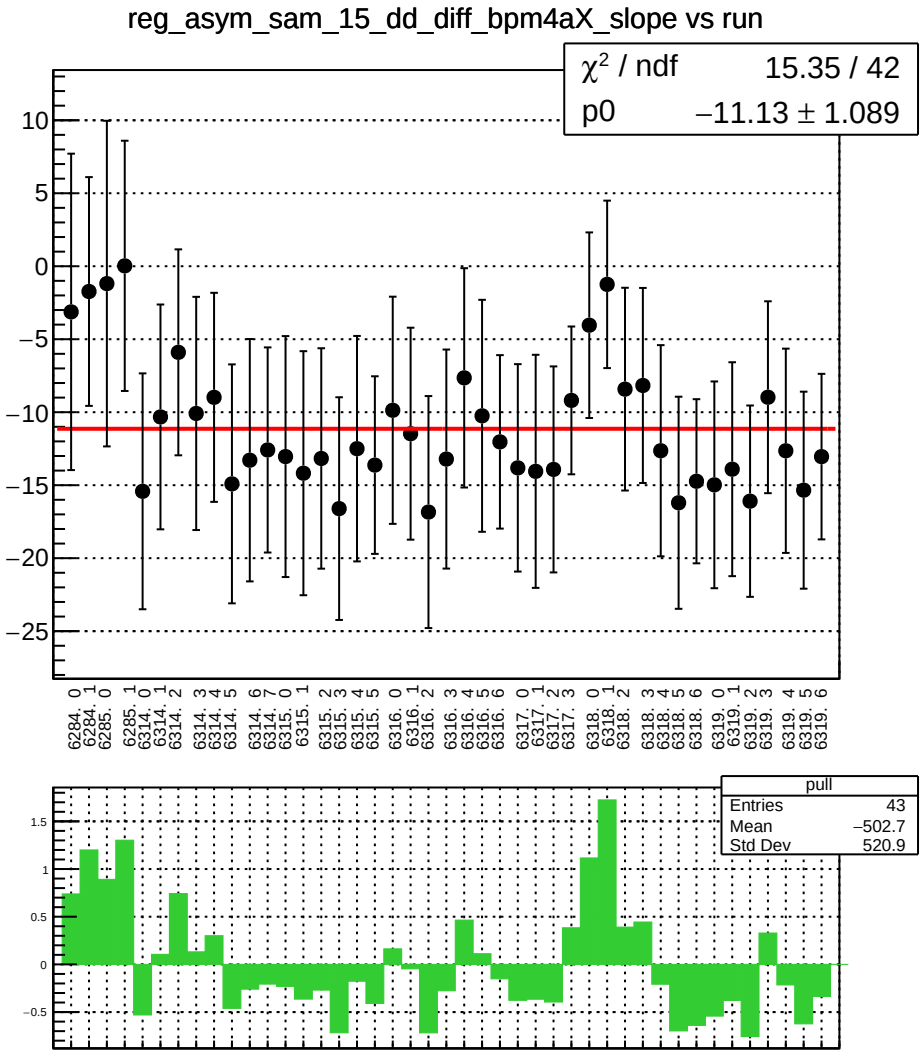

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.59 / 42
p0 −3.787 ± 0.2629
pull
Entries 43
Mean 214.5
Std Dev 189.5
pull1D
Entries 43
Mean 0.01428
Std Dev 0.6395

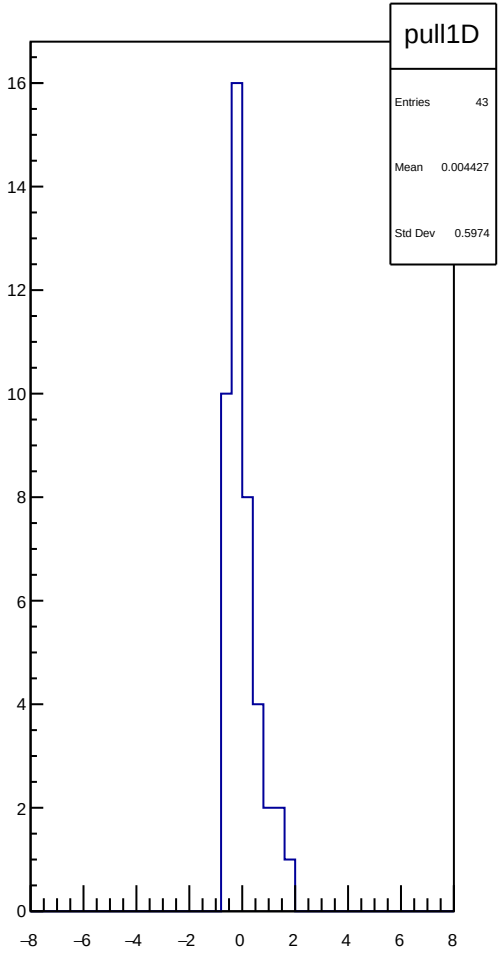

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.69 / 42
p0 −3.776 ± 0.6599
10
5
0
−5
−10
−15
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −74.57
Std Dev 97.09
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02096
Std Dev 0.8306
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

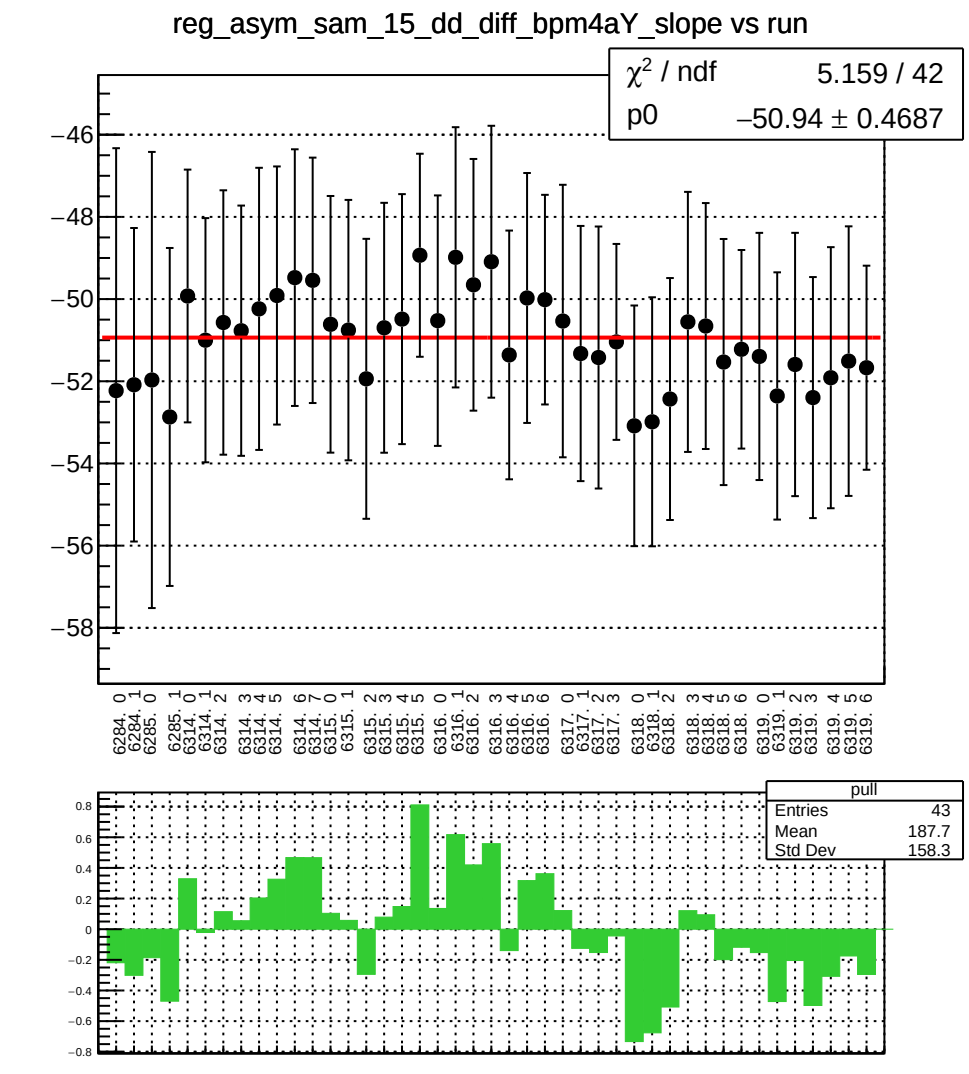

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.91 / 42
p0 54.98 ± 0.3226
60
58
56
54
52
50
48
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 94.35
Std Dev 80.28
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0108
Std Dev 0.6453
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

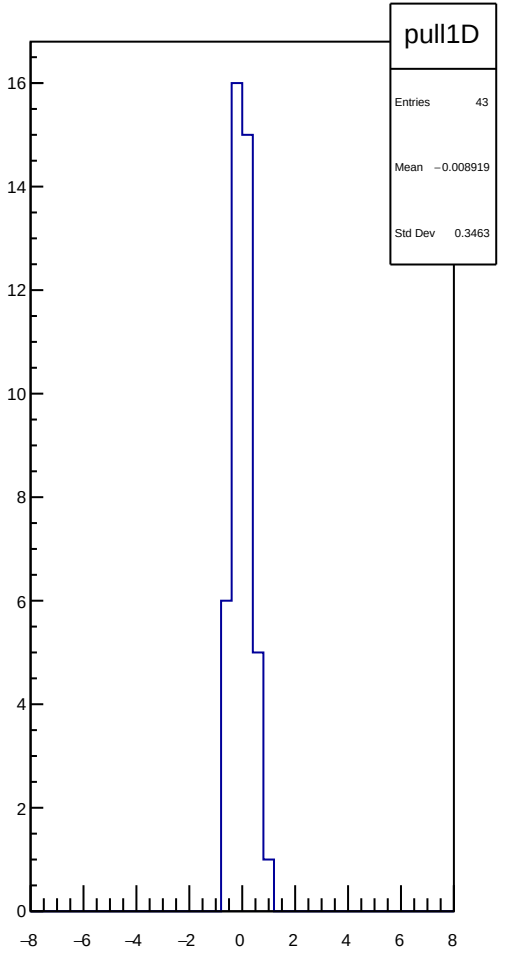

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 18.41 / 42
p0 0.07383 ± 0.0253
0.4
0.2
0
−0.2
−0.4
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −210
Std Dev 224.3
0.5
0
−0.5
−1
−1.5
−2

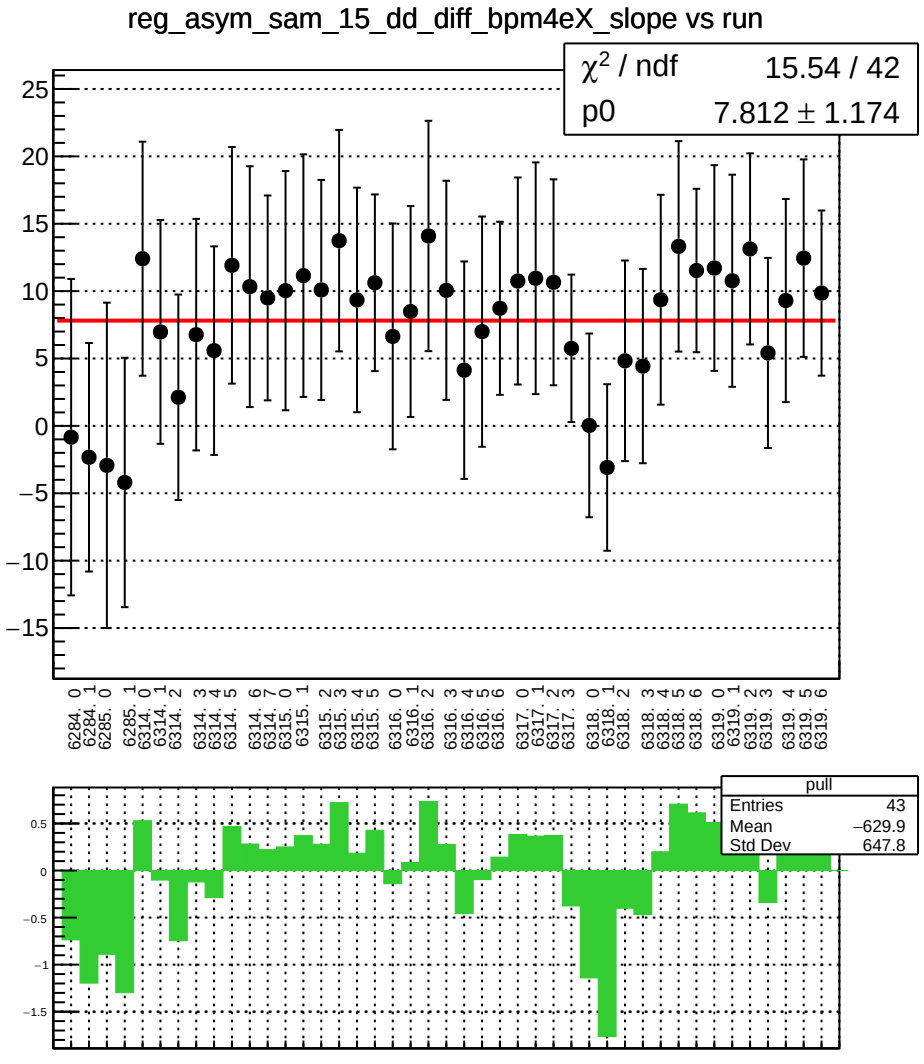

pull1D
Entries 43
Mean −0.01435
Std Dev 0.6541
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

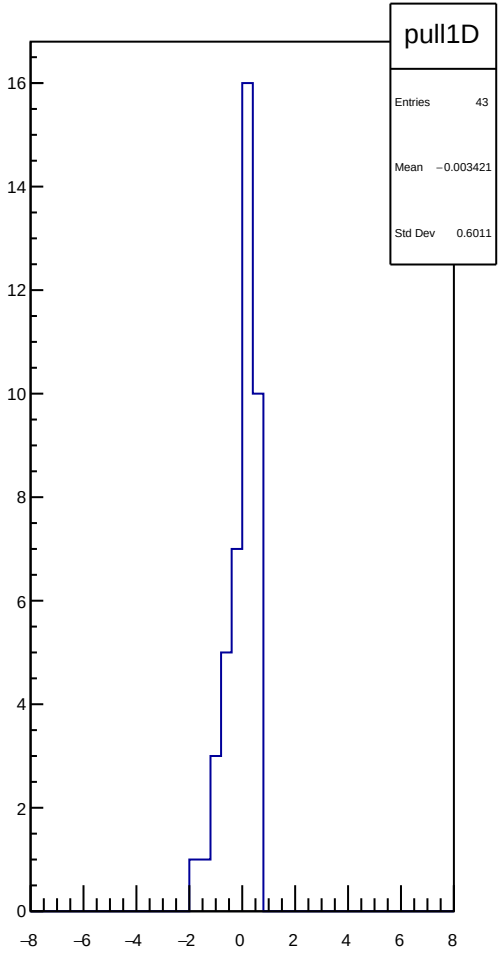

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.35 / 42
p0 −11.13 ± 1.089
pull
Entries 43
Mean −502.7
Std Dev 520.9

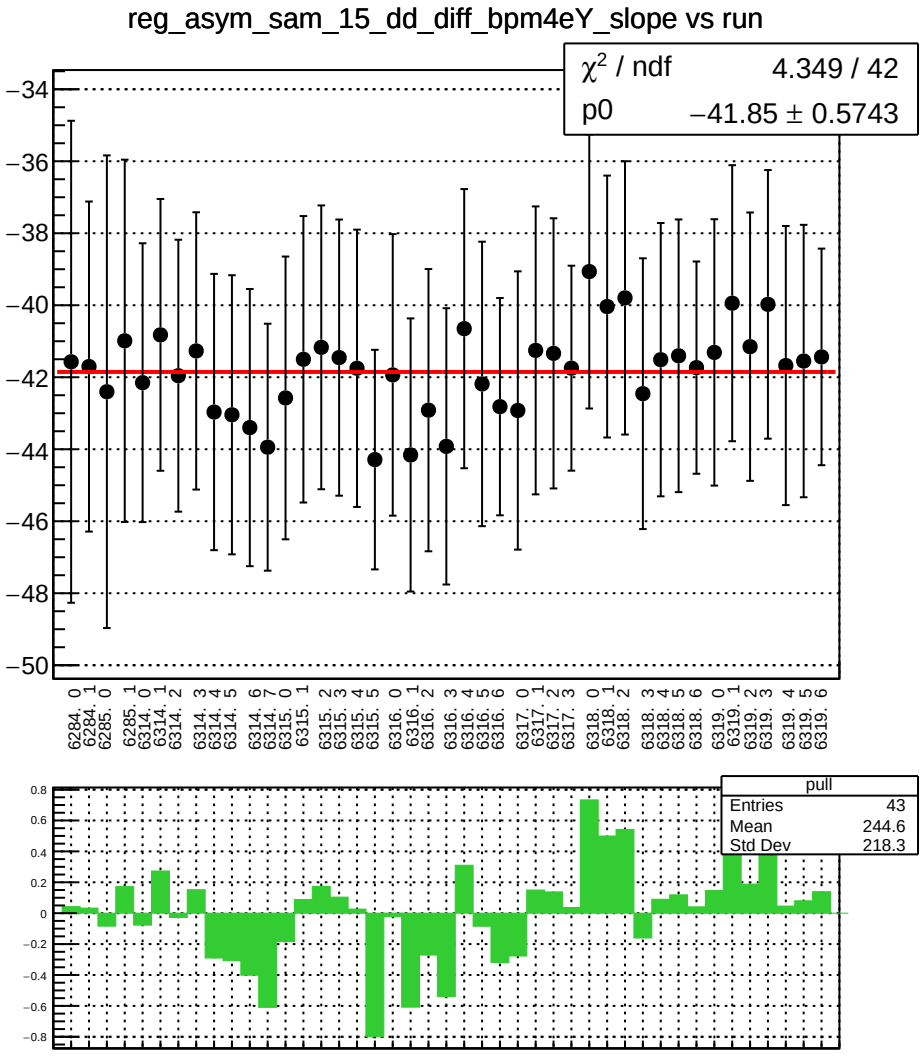

pull1D
Entries 43
Mean 0.004427
Std Dev 0.5974

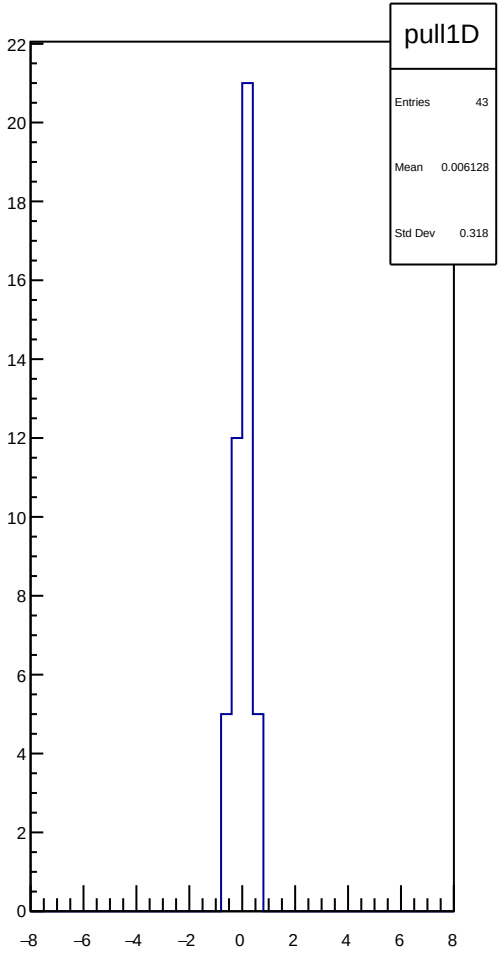

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.159 / 42
p0 −50.94 ± 0.4687
−46
−48
−50
−52
−54
−56
−58
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 187.7
Std Dev 158.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

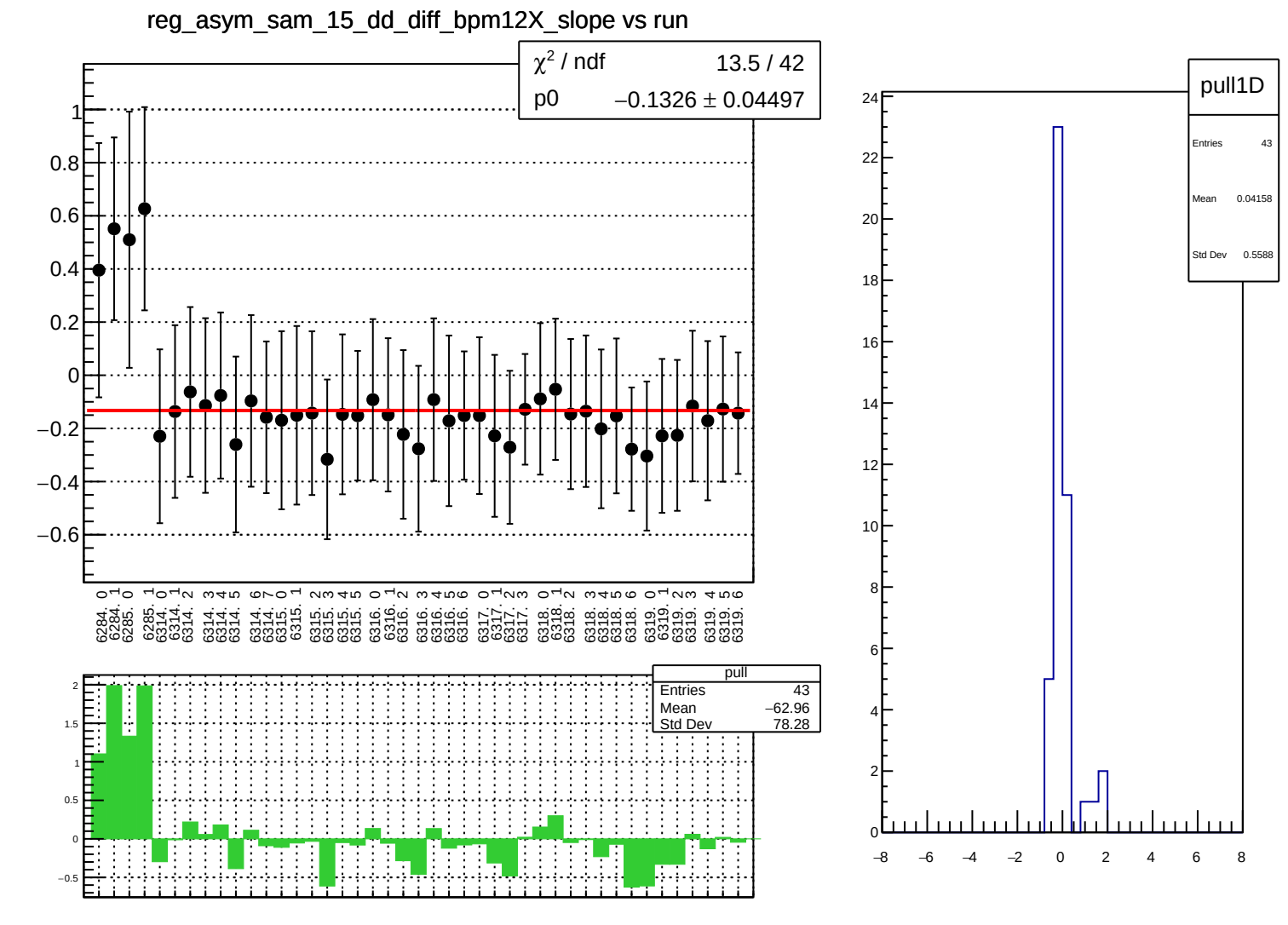

pull1D
Entries 43
Mean −0.008919
Std Dev 0.3463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

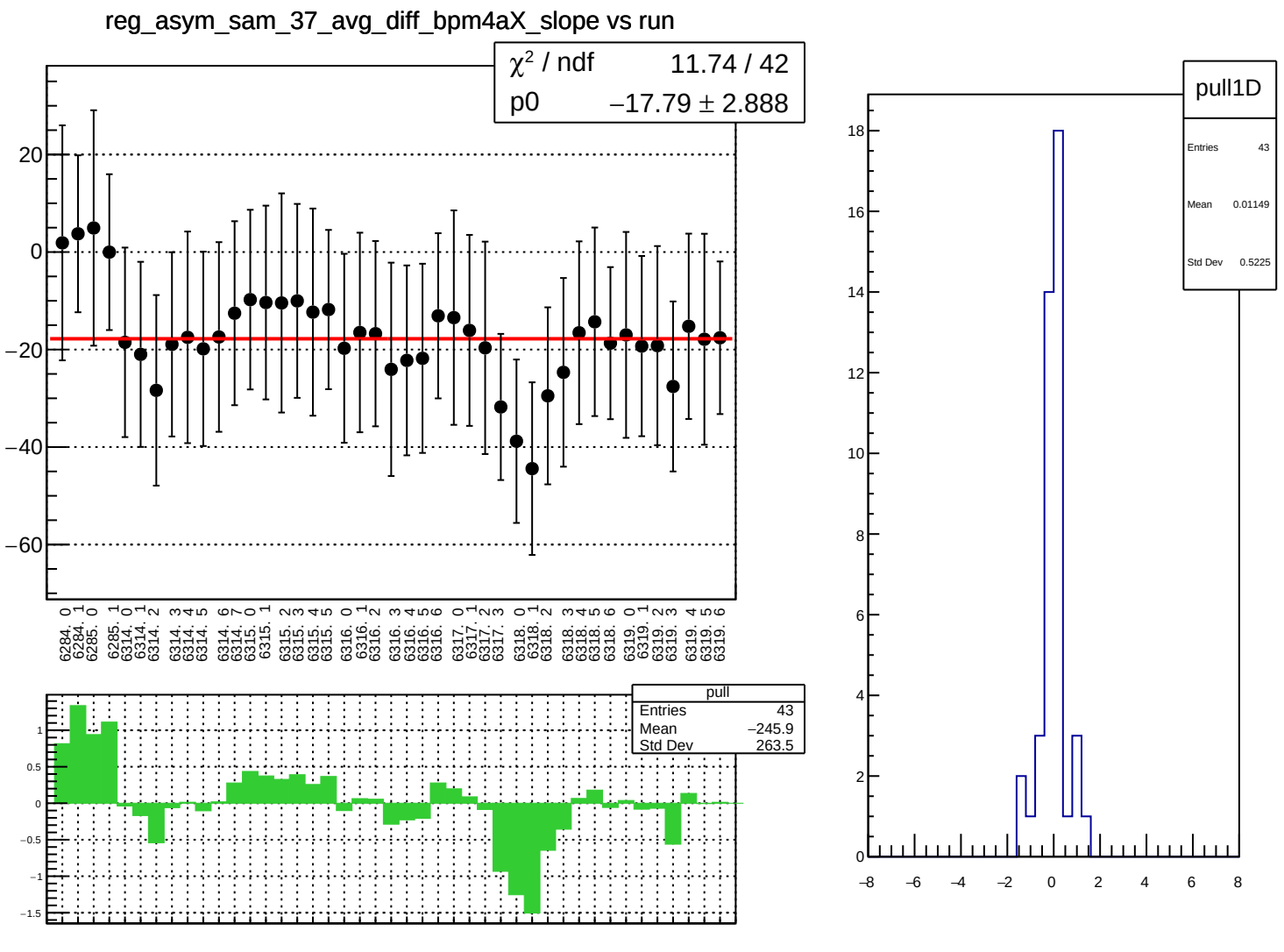

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.54 / 42
p0 7.812 ± 1.174
pull
Entries 43
Mean −629.9
Std Dev 647.8

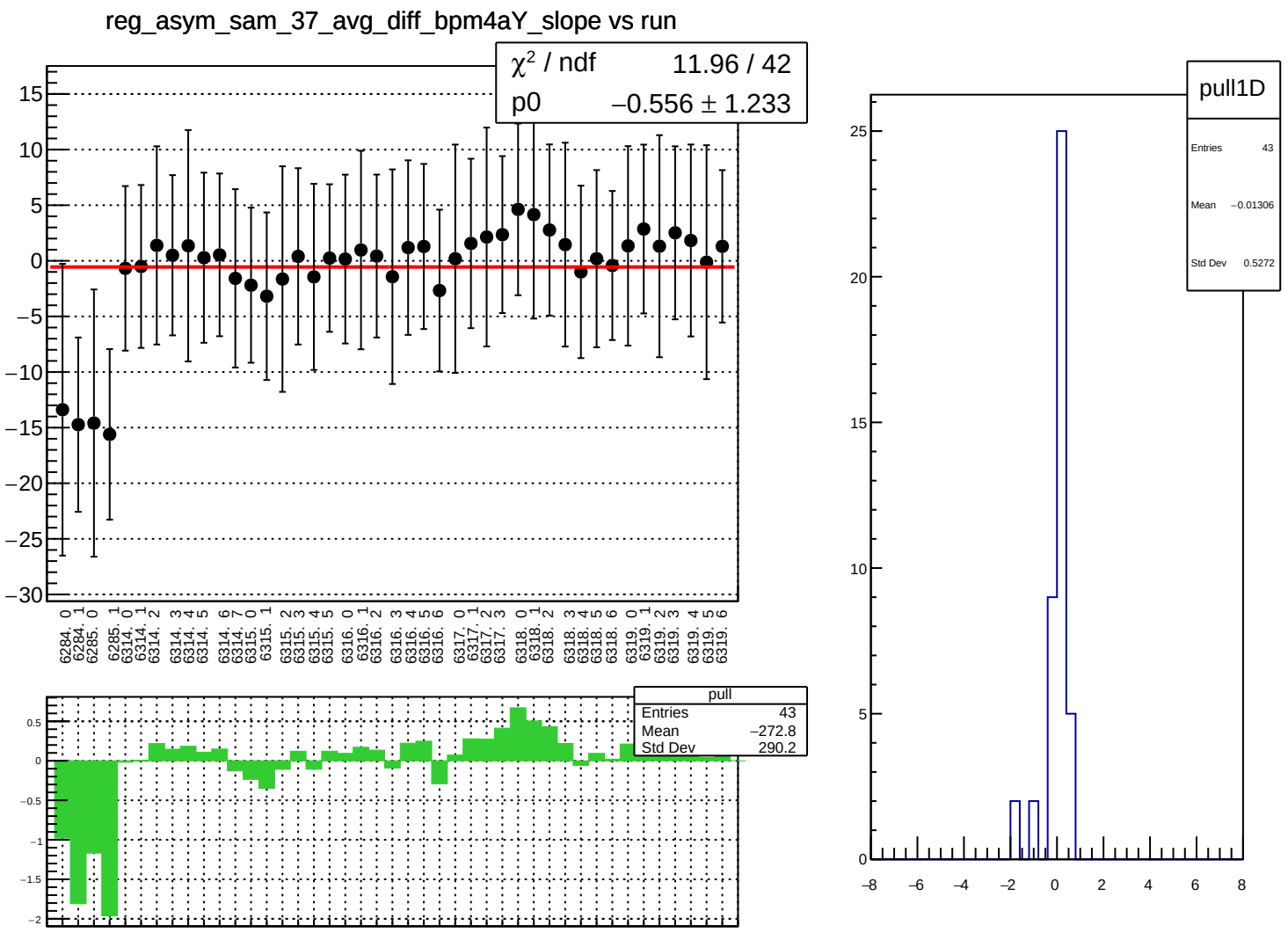

pull1D
Entries 43
Mean −0.003421
Std Dev 0.6011

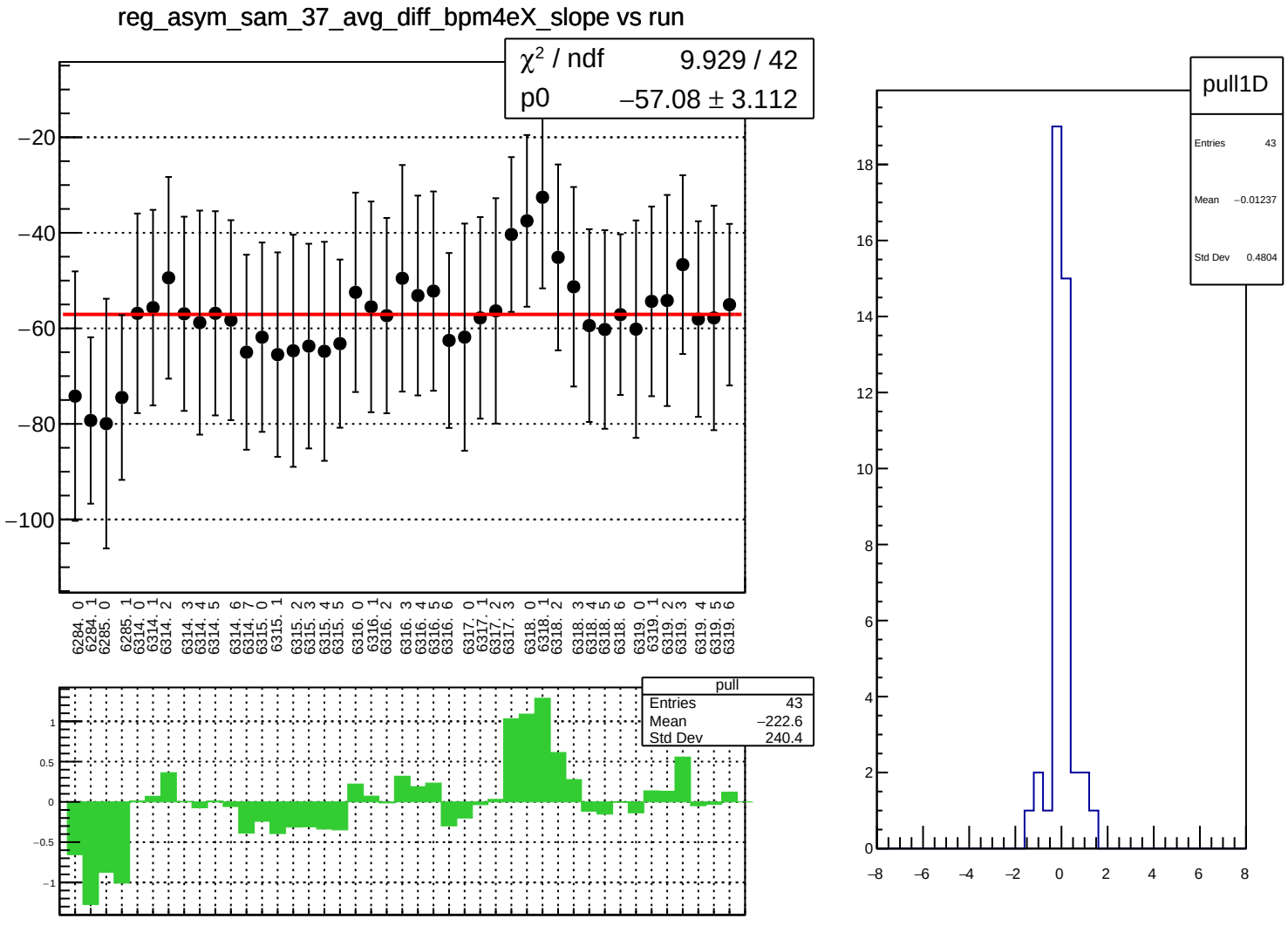

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.349 / 42
p0 −41.85 ± 0.5743
pull
Entries 43
Mean 244.6
Std Dev 218.3

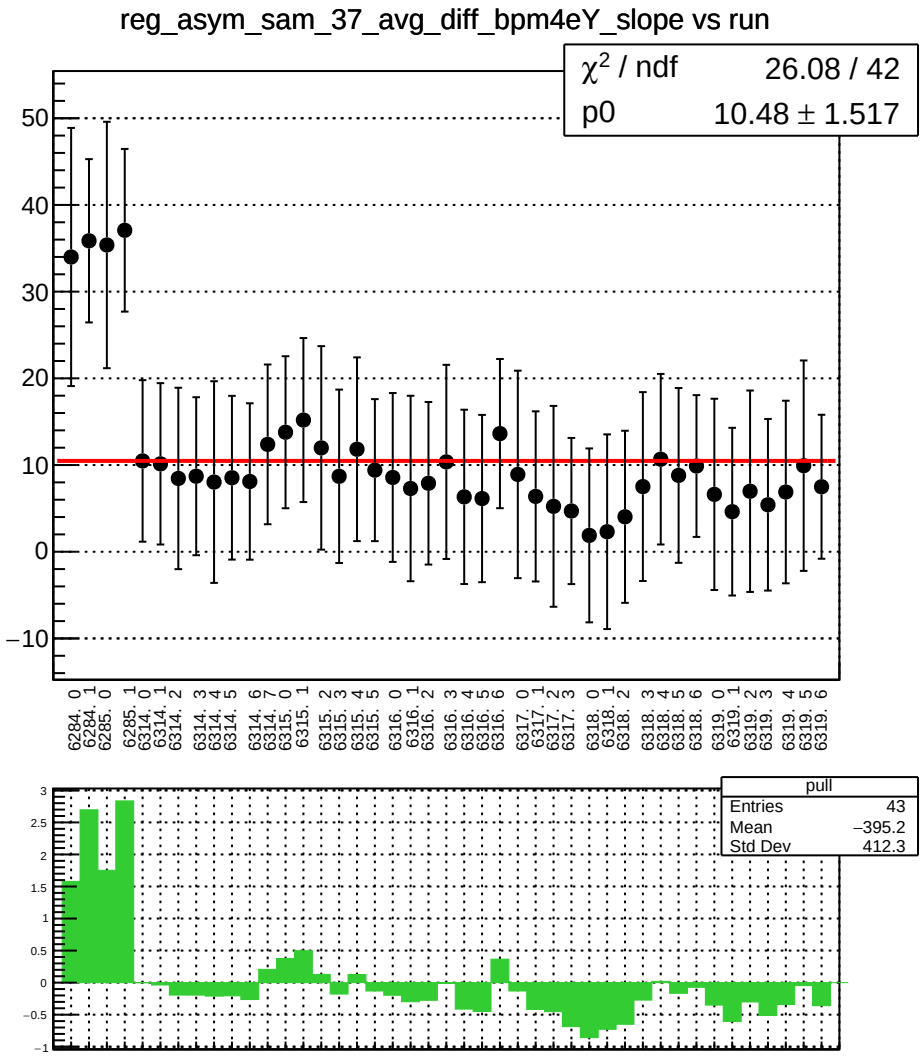

pull1D
Entries 43
Mean 0.006128
Std Dev 0.318

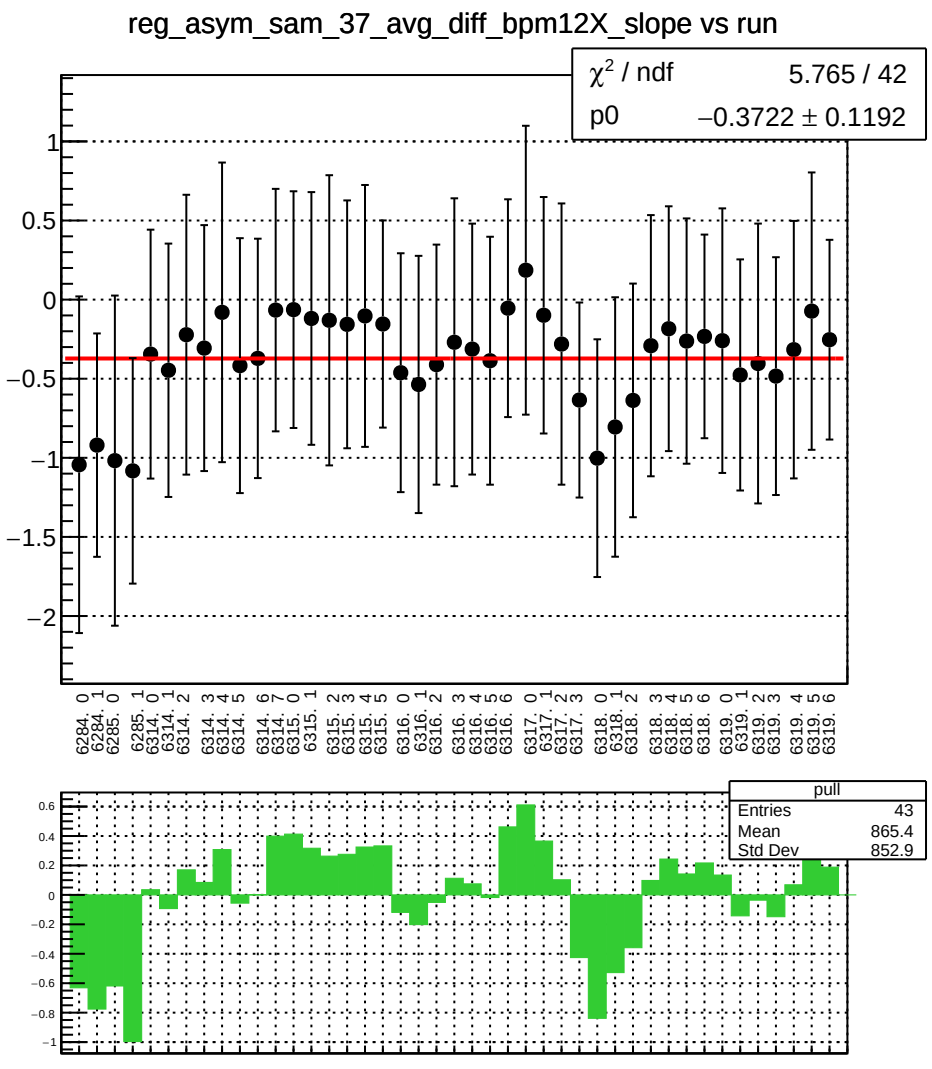

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 13.5 / 42
p0 −0.1326 ± 0.04497
pull
Entries 43
Mean −62.96
Std Dev 78.28
pull1D
Entries 43
Mean 0.04158
Std Dev 0.5588

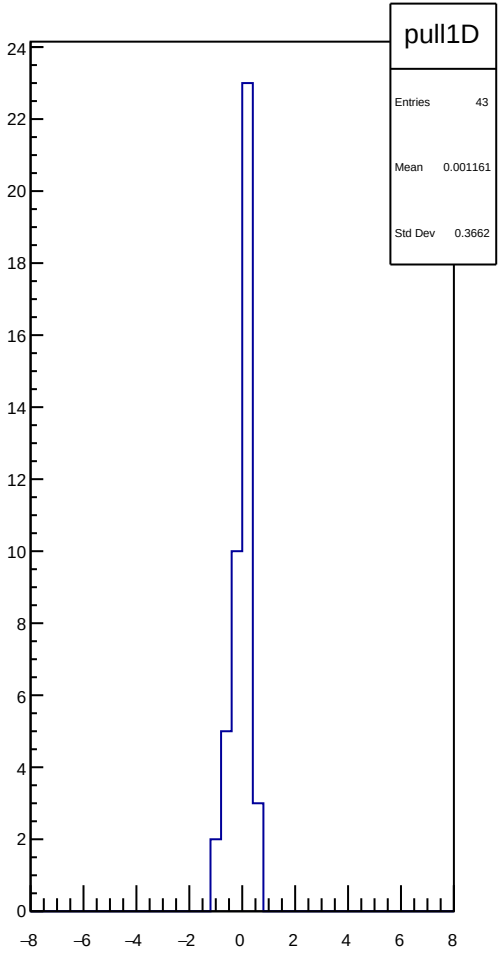

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.74 / 42
p0 −17.79 ± 2.888
20
0
−20
−40
−60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −245.9
Std Dev 263.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01149
Std Dev 0.5225
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

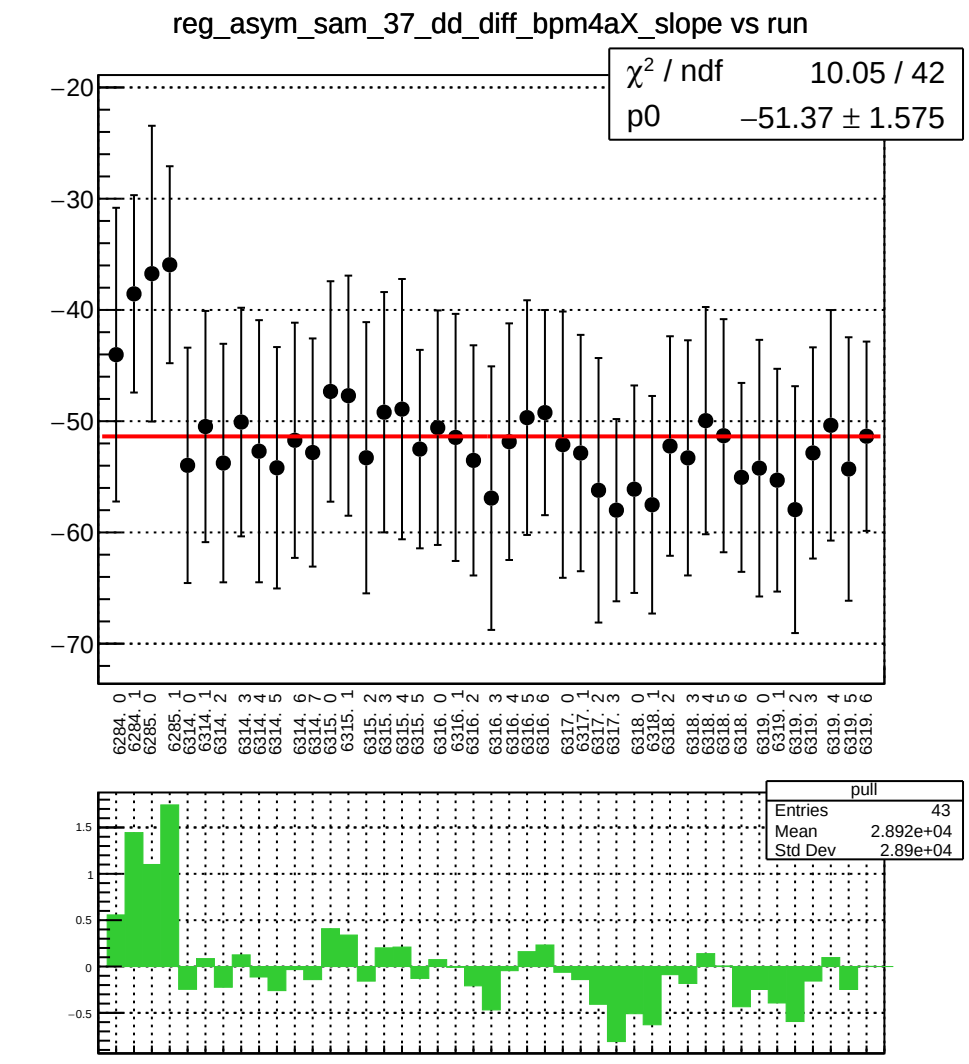

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.96 / 42
p0 −0.556 ± 1.233
pull
Entries 43
Mean −272.8
Std Dev 290.2
pull1D
Entries 43
Mean −0.01306
Std Dev 0.5272

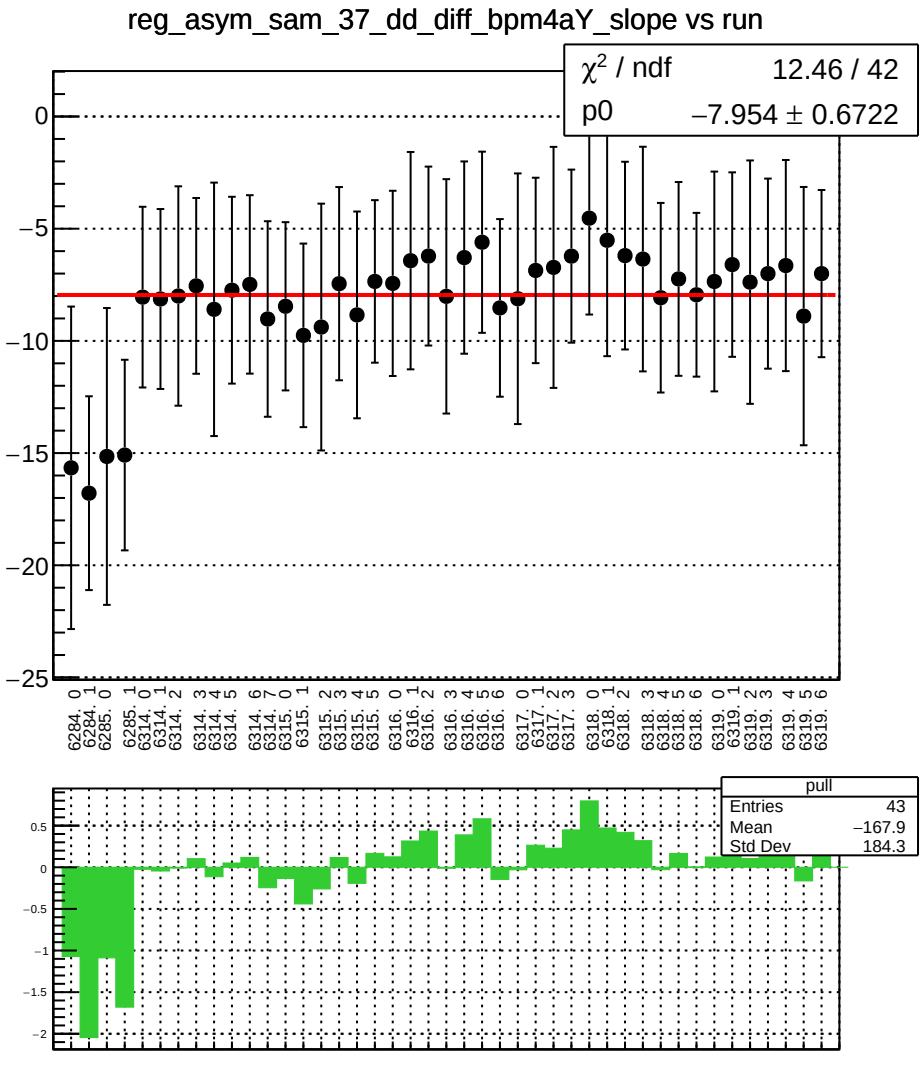

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.929 / 42
p0 −57.08 ± 3.112
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −222.6
Std Dev 240.4
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01237
Std Dev 0.4804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

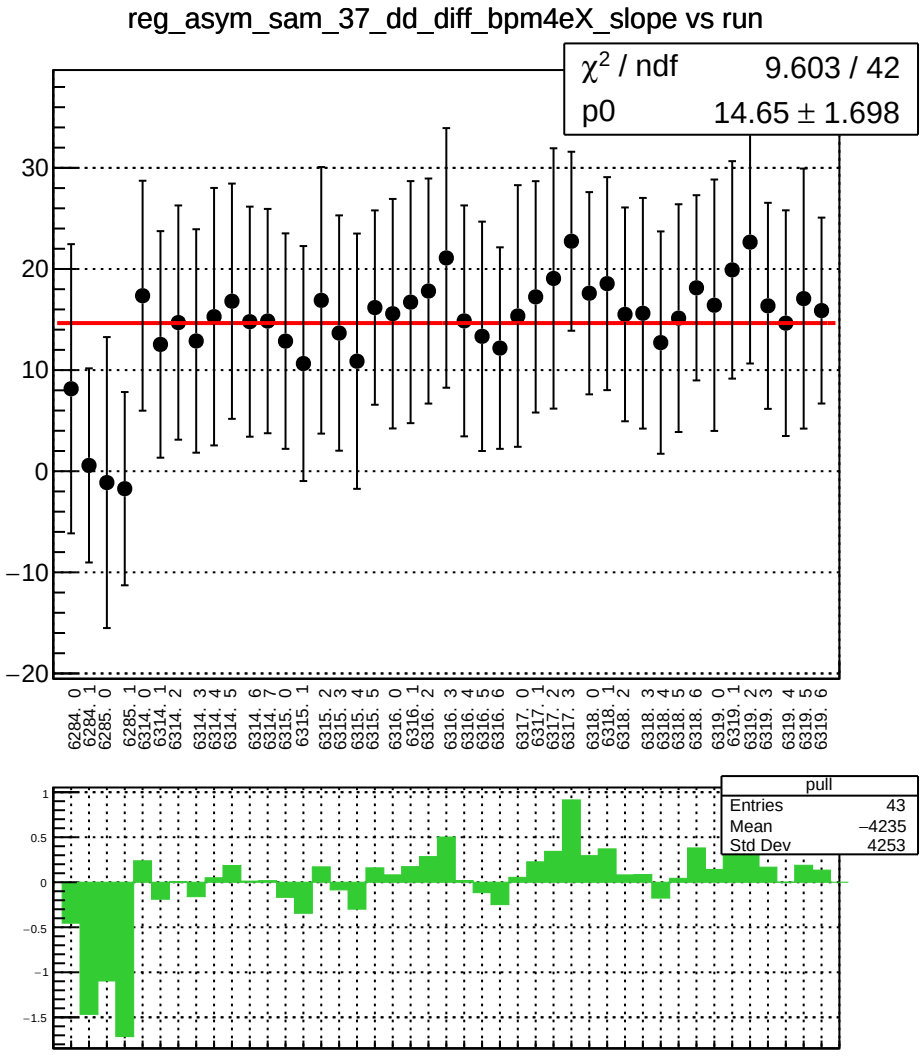

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.08 / 42
p0 10.48 ± 1.517
pull
Entries 43
Mean −395.2
Std Dev 412.3
pull1D
Entries 43
Mean 0.0137
Std Dev 0.7786

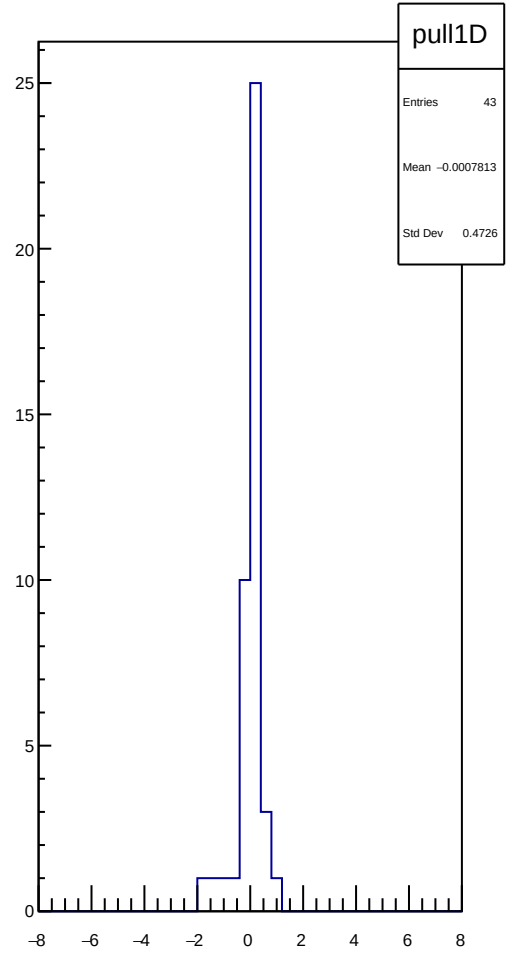

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 5.765 / 42
p0 −0.3722 ± 0.1192
pull
Entries 43
Mean 865.4
Std Dev 852.9

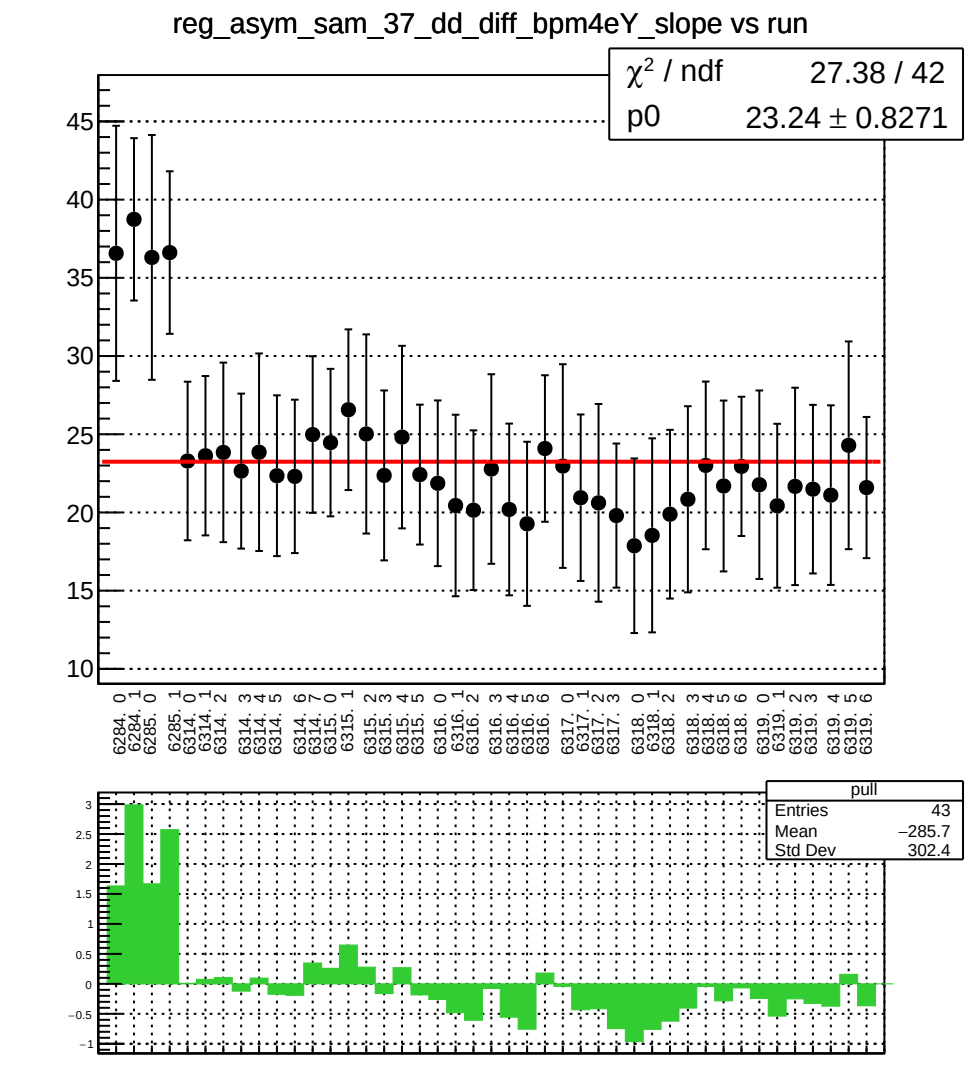

pull1D
Entries 43
Mean 0.001161
Std Dev 0.3662

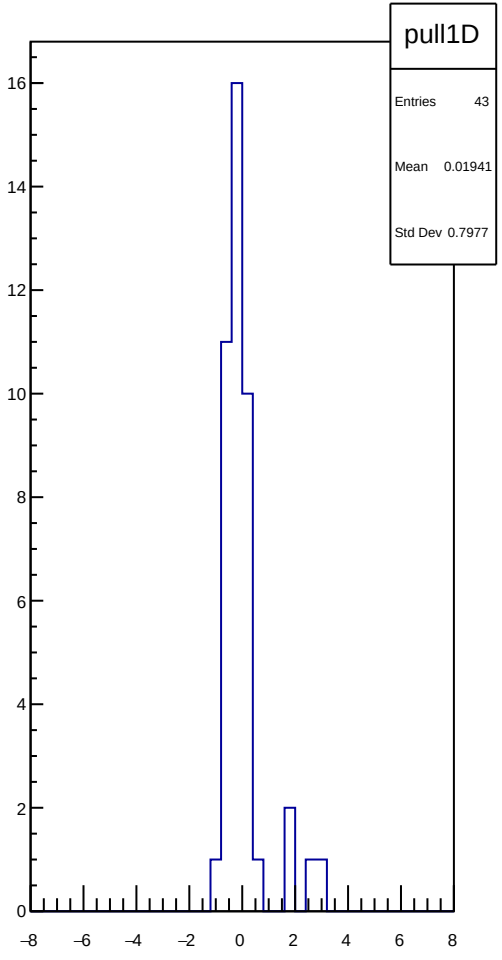

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.05 / 42
p0 −51.37 ± 1.575
−20
−30
−40
−50
−60
−70
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 2.892e+04
Std Dev 2.89e+04
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.0001128
Std Dev 0.4834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

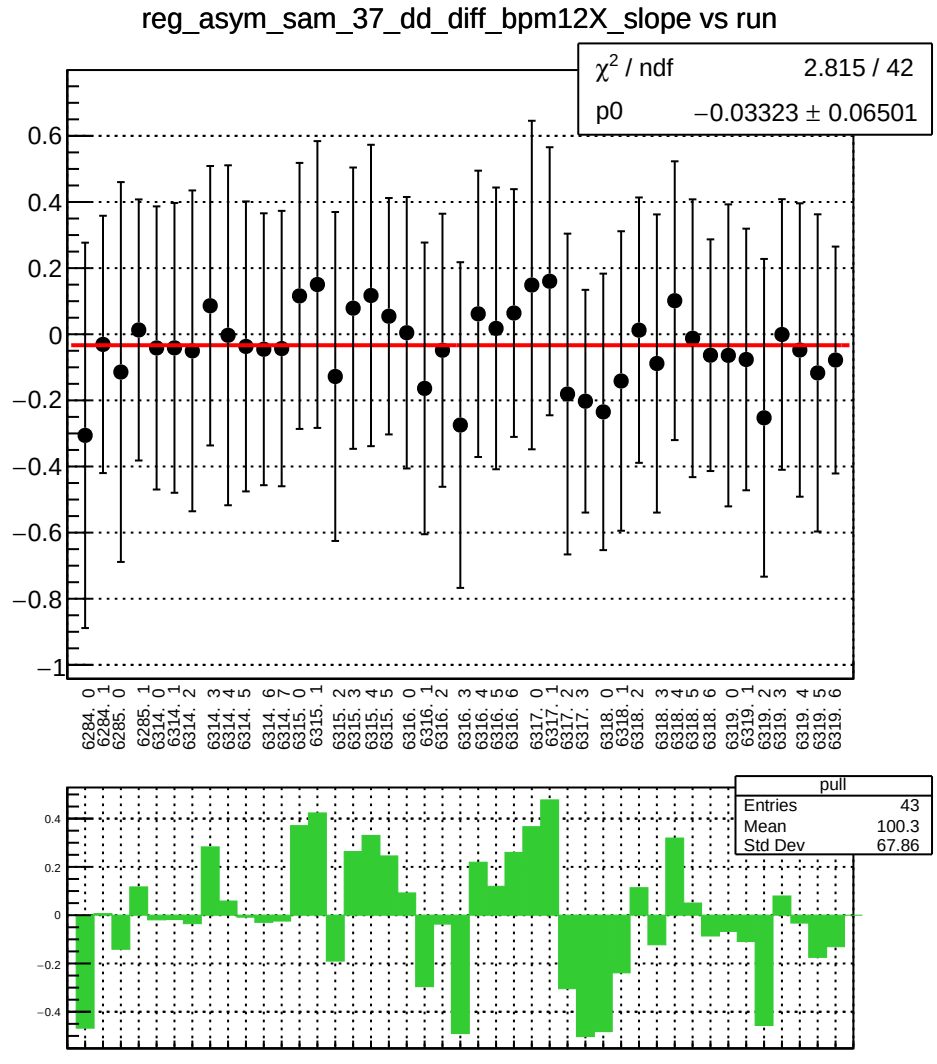

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.46 / 42
p0 −7.954 ± 0.6722
0
−5
−10
−15
−20
−25
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −167.9
Std Dev 184.3
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02066
Std Dev 0.5379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

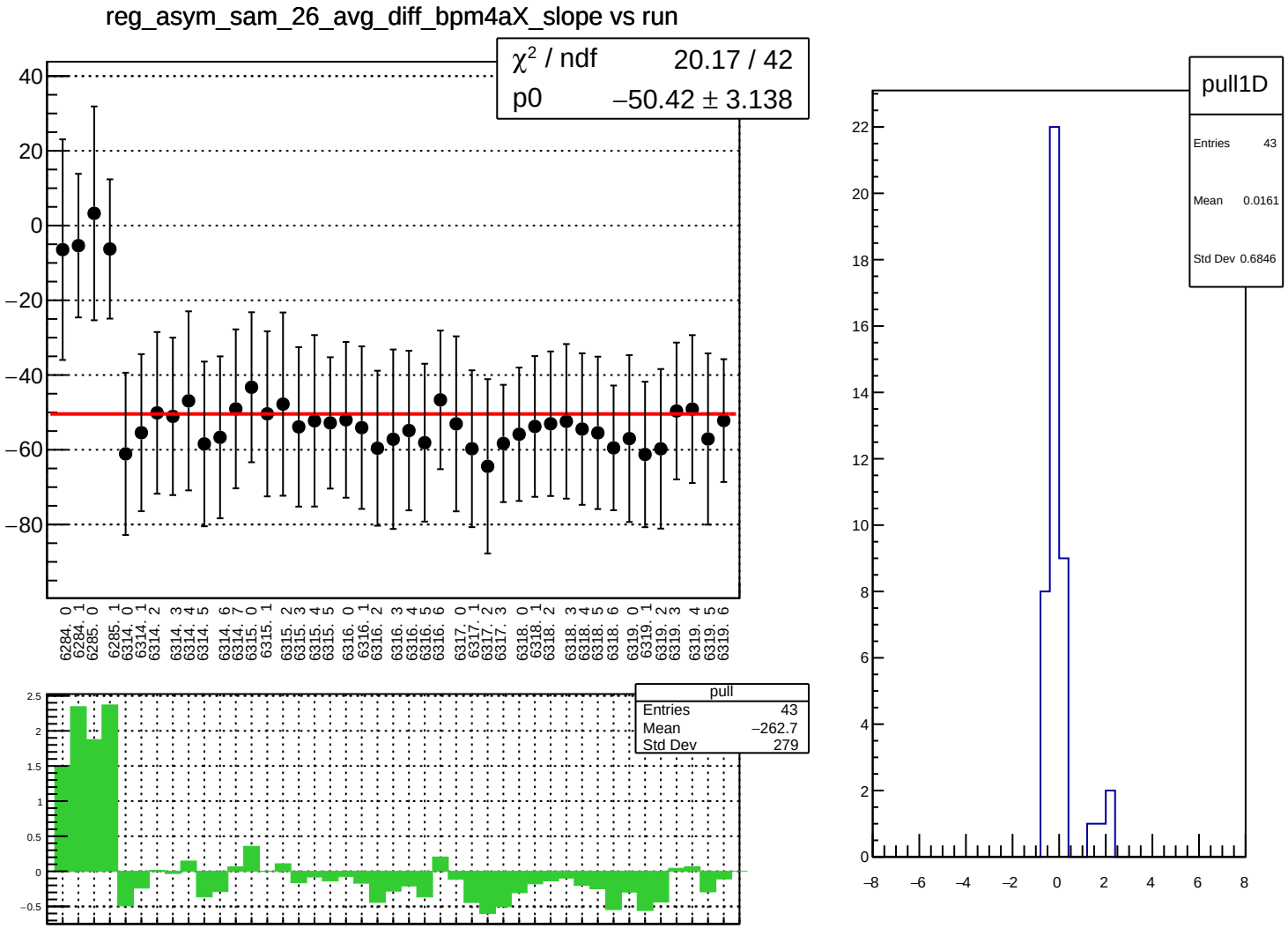

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.603 / 42
p0 14.65 ± 1.698
pull
Entries 43
Mean −4235
Std Dev 4253

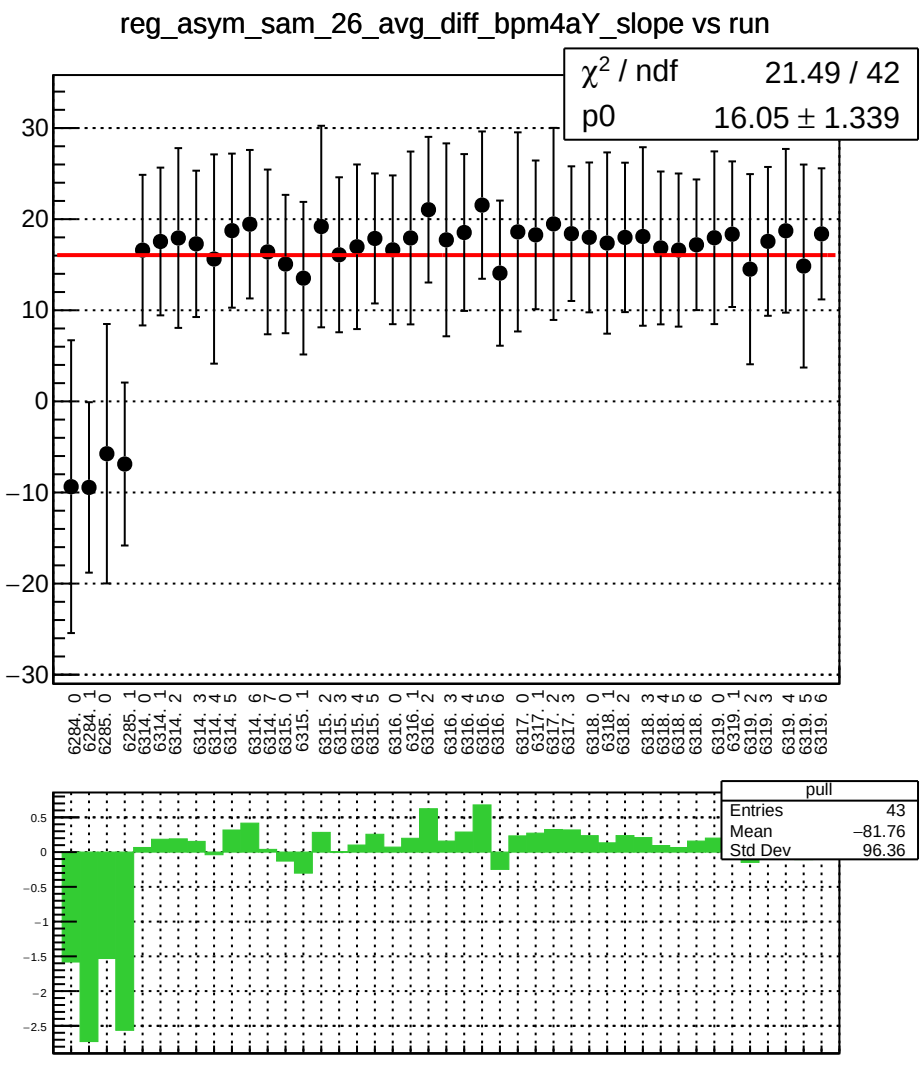

pull1D
Entries 43
Mean −0.0007813
Std Dev 0.4726

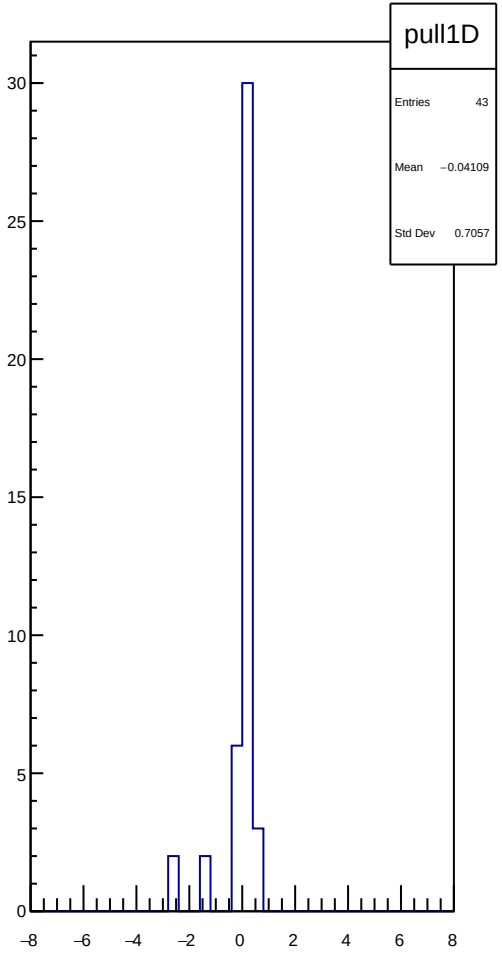

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.38 / 42
p0 23.24 ± 0.8271
45
40
35
30
25
20
15
10
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −285.7
Std Dev 302.4
3
2.5
2
1.5
1
0.5
0
−0.5
−1

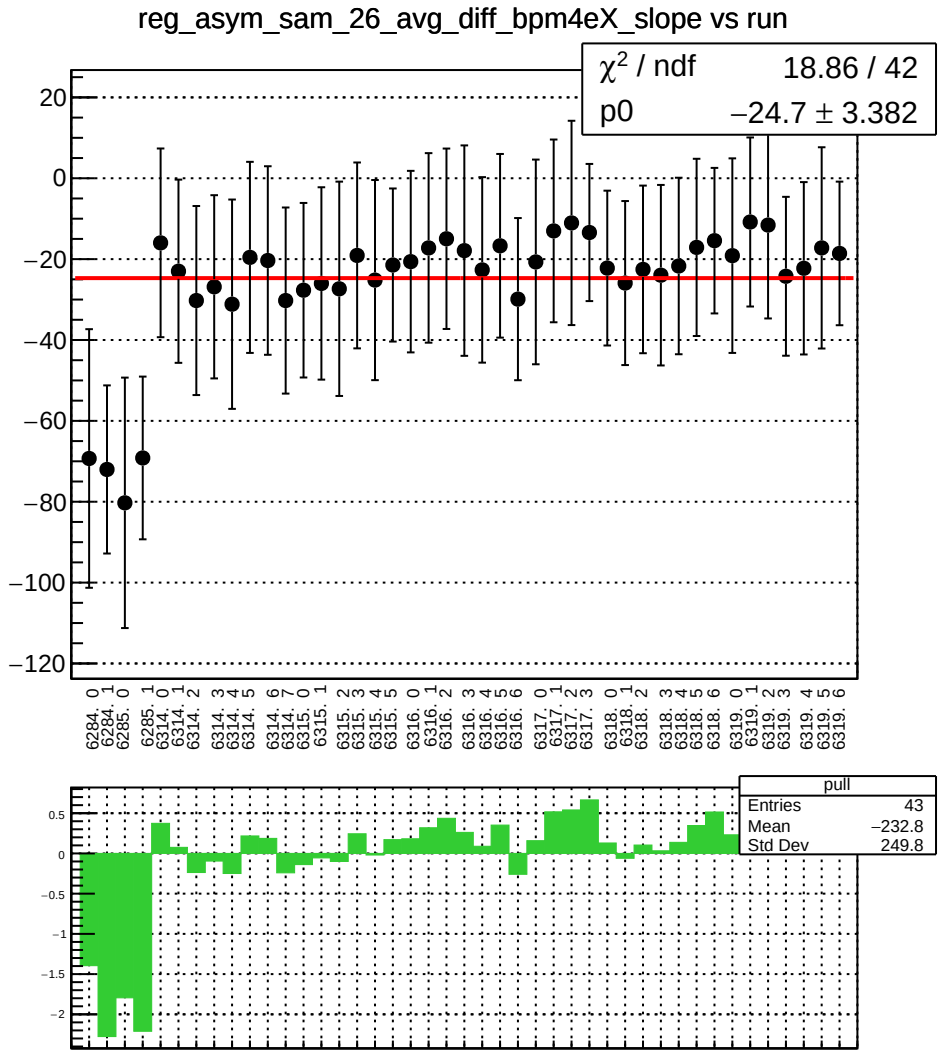

pull1D
Entries 43
Mean 0.01941
Std Dev 0.7977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

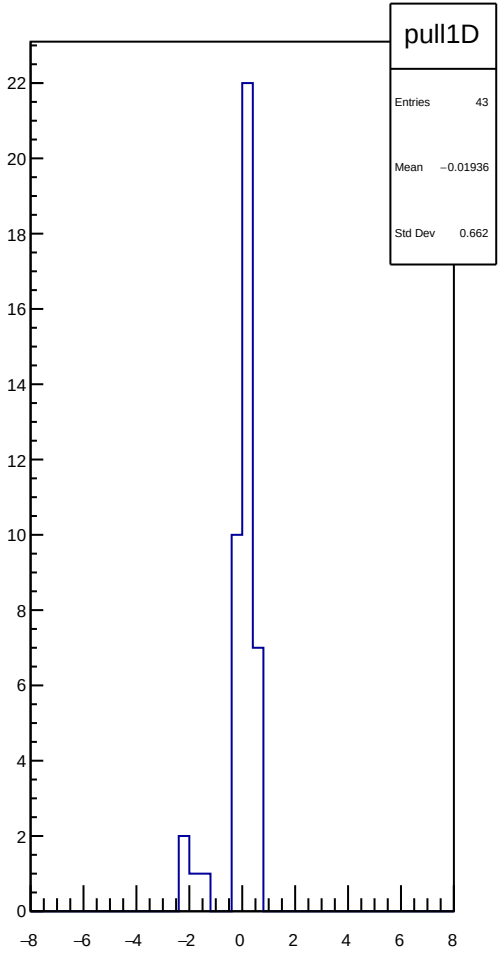

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.815 / 42
p0 −0.03323 ± 0.06501
pull
Entries 43
Mean 100.3
Std Dev 67.86
pull1D
Entries 43
Mean −0.006207
Std Dev 0.2558

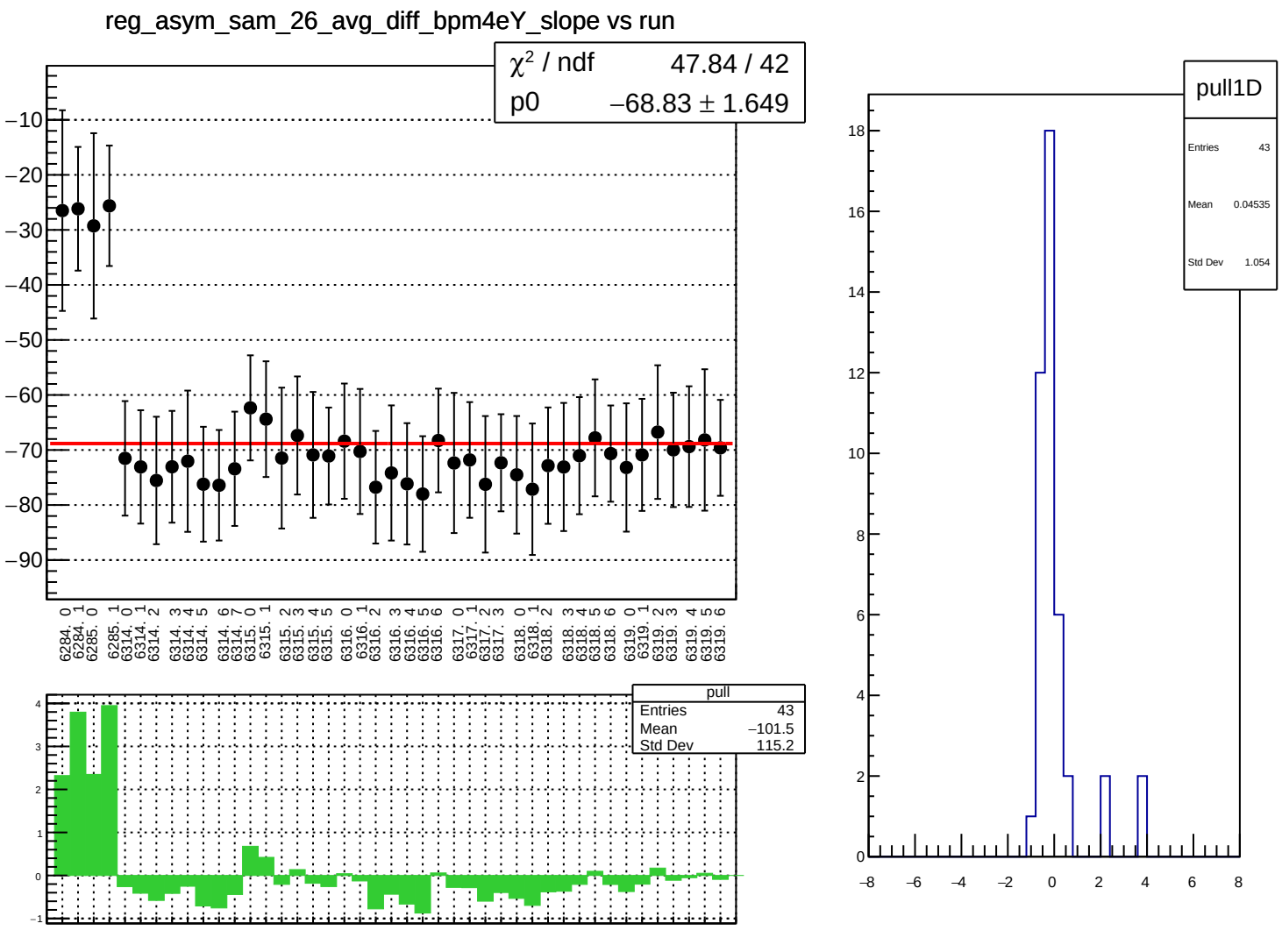

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.17 / 42
p0 −50.42 ± 3.138
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −262.7
Std Dev 279
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean 0.0161
Std Dev 0.6846
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

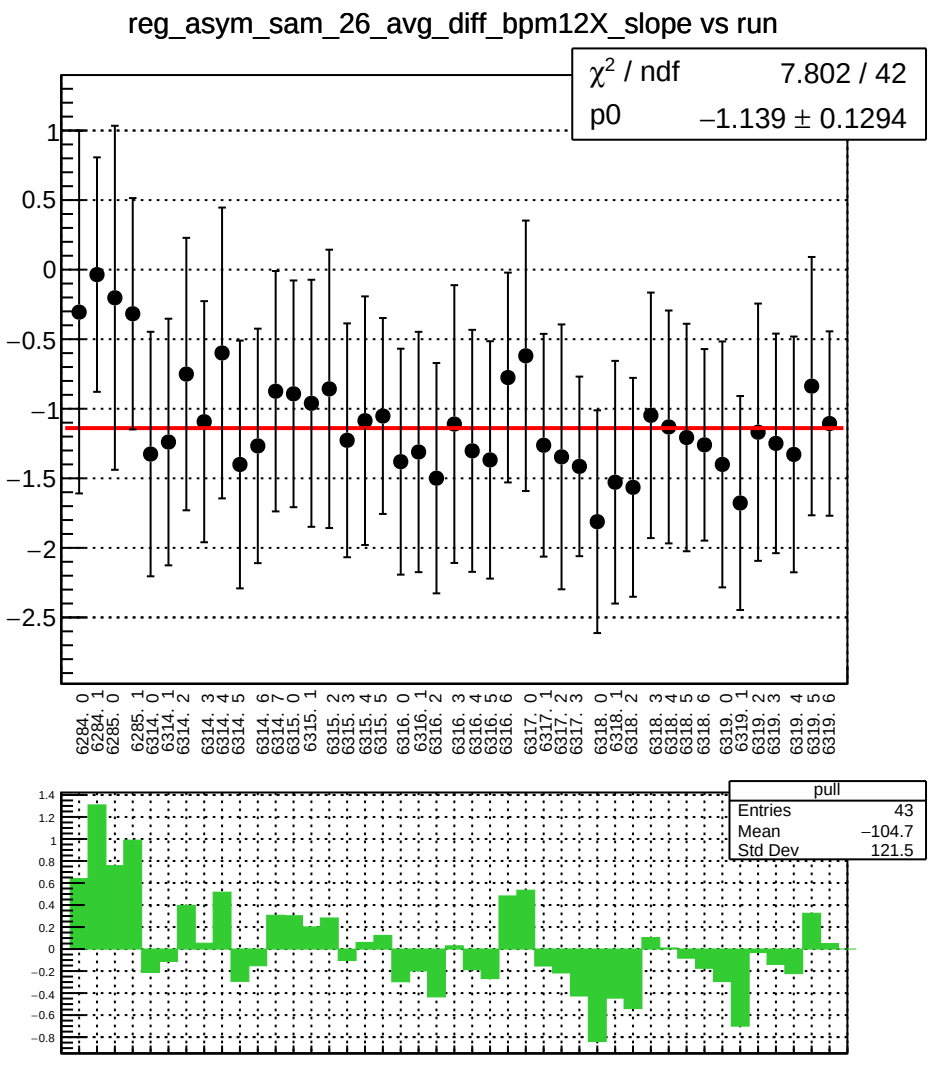

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 21.49 / 42
p0 16.05 ± 1.339
pull
Entries 43
Mean −81.76
Std Dev 96.36

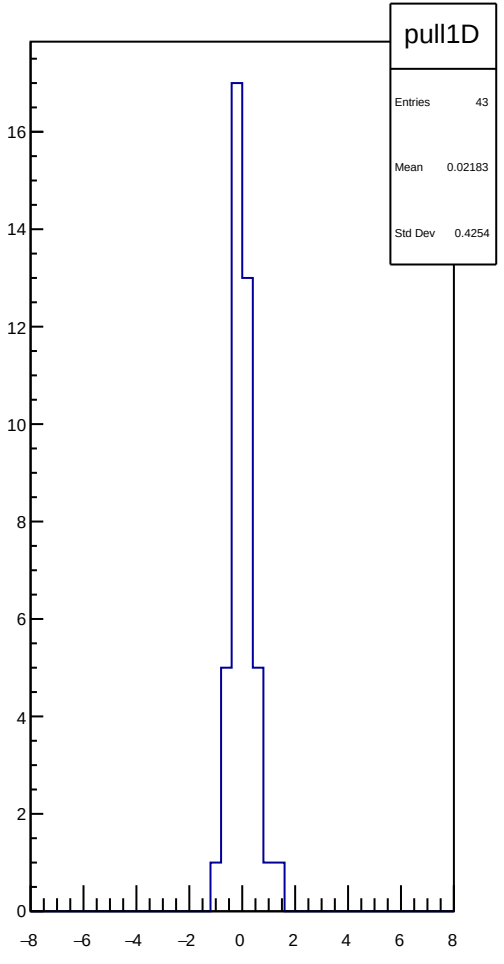

pull1D
Entries 43
Mean −0.04109
Std Dev 0.7057

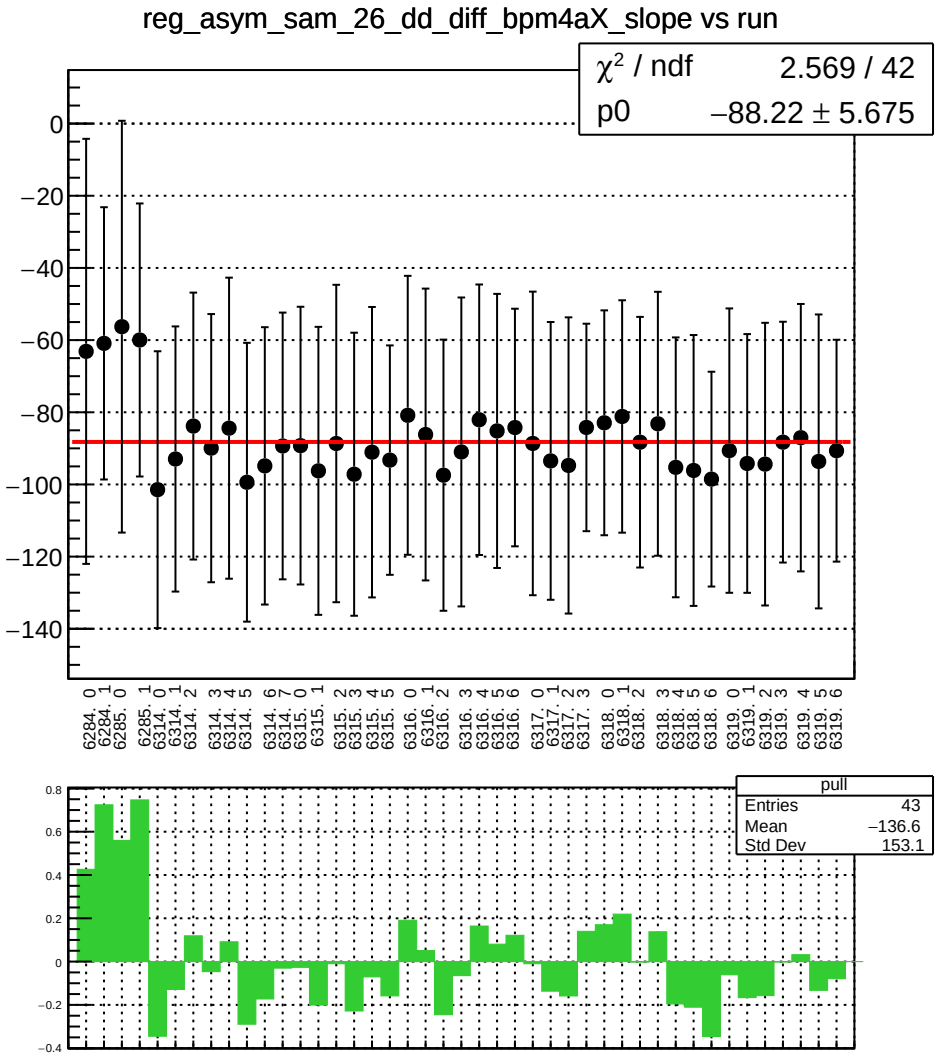

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.86 / 42
p0 −24.7 ± 3.382
pull
Entries 43
Mean −232.8
Std Dev 249.8

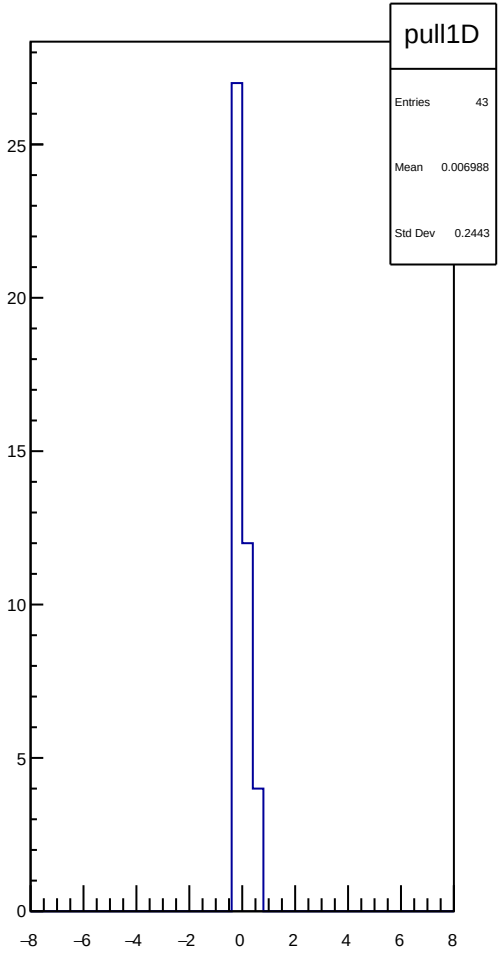

pull1D
Entries 43
Mean −0.01936
Std Dev 0.662

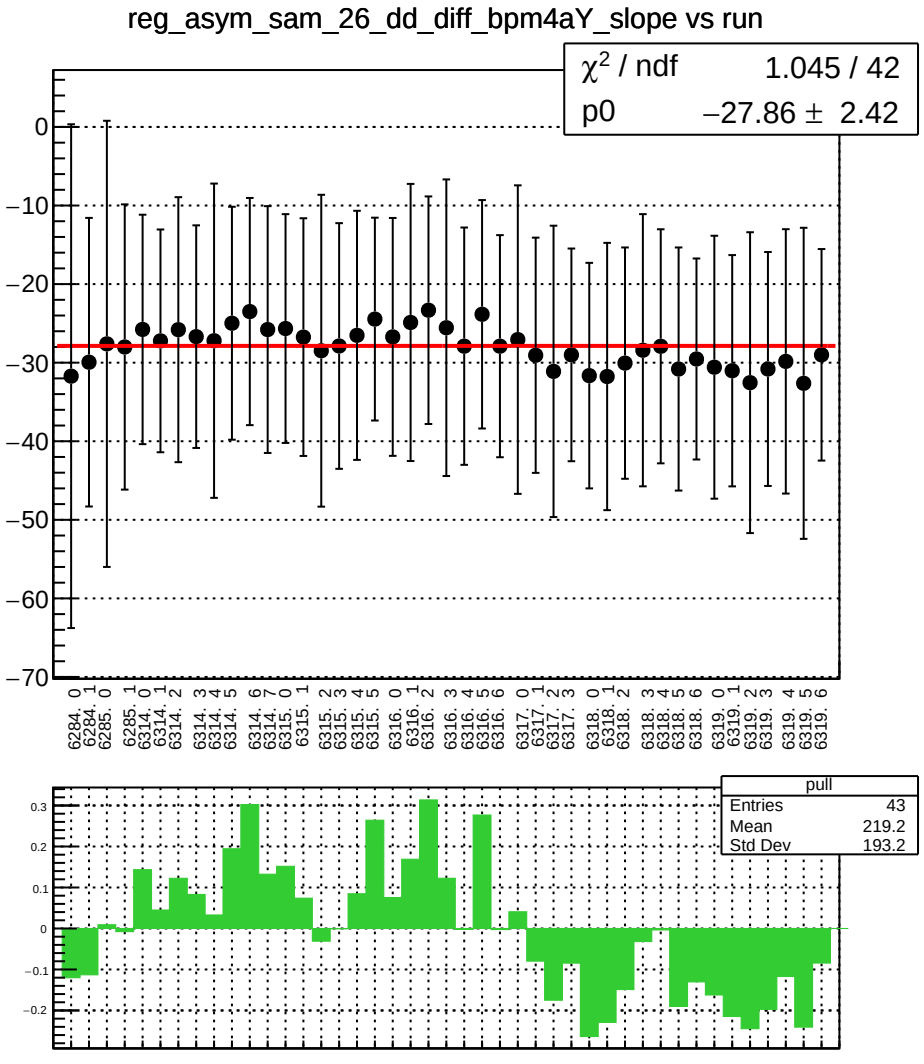

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.84 / 42
p0 −68.83 ± 1.649
pull
Entries 43
Mean −101.5
Std Dev 115.2
pull1D
Entries 43
Mean 0.04535
Std Dev 1.054

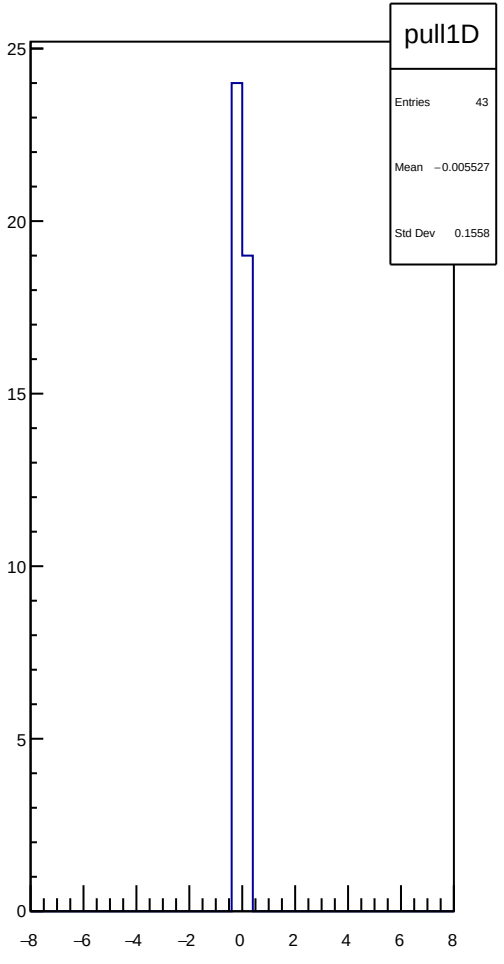

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.802 / 42
p0 −1.139 ± 0.1294
pull
Entries 43
Mean −104.7
Std Dev 121.5

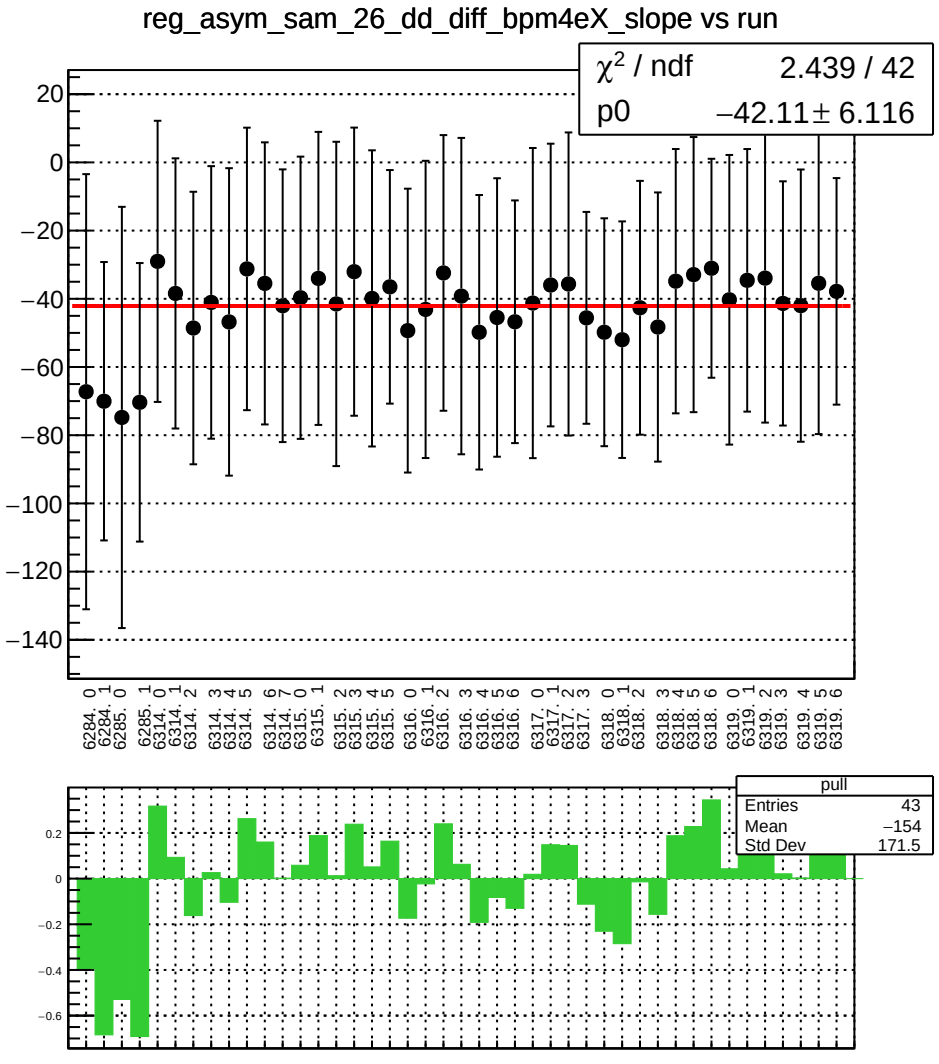

pull1D
Entries 43
Mean 0.02183
Std Dev 0.4254

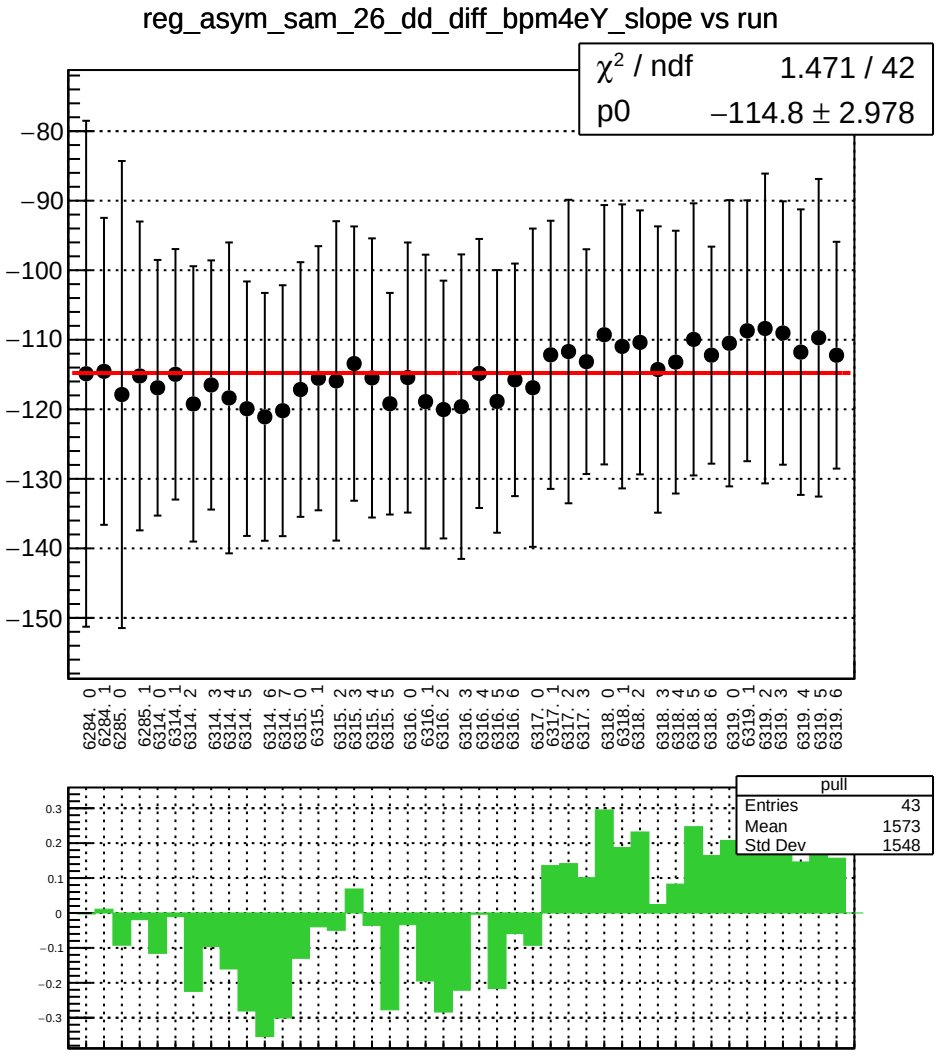

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.569 / 42
p0 −88.22 ± 5.675
0
−20
−40
−60
−80
−100
−120
−140
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −136.6
Std Dev 153.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

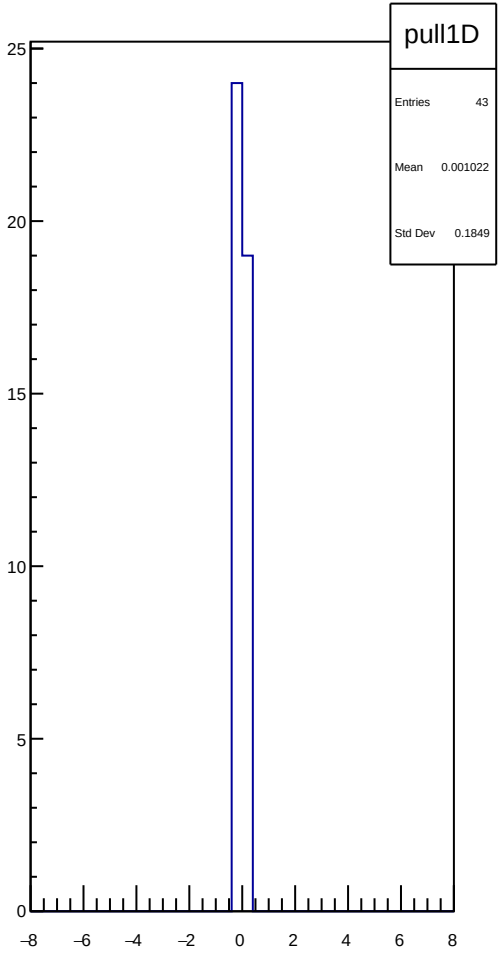

pull1D
Entries 43
Mean 0.006988
Std Dev 0.2443
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

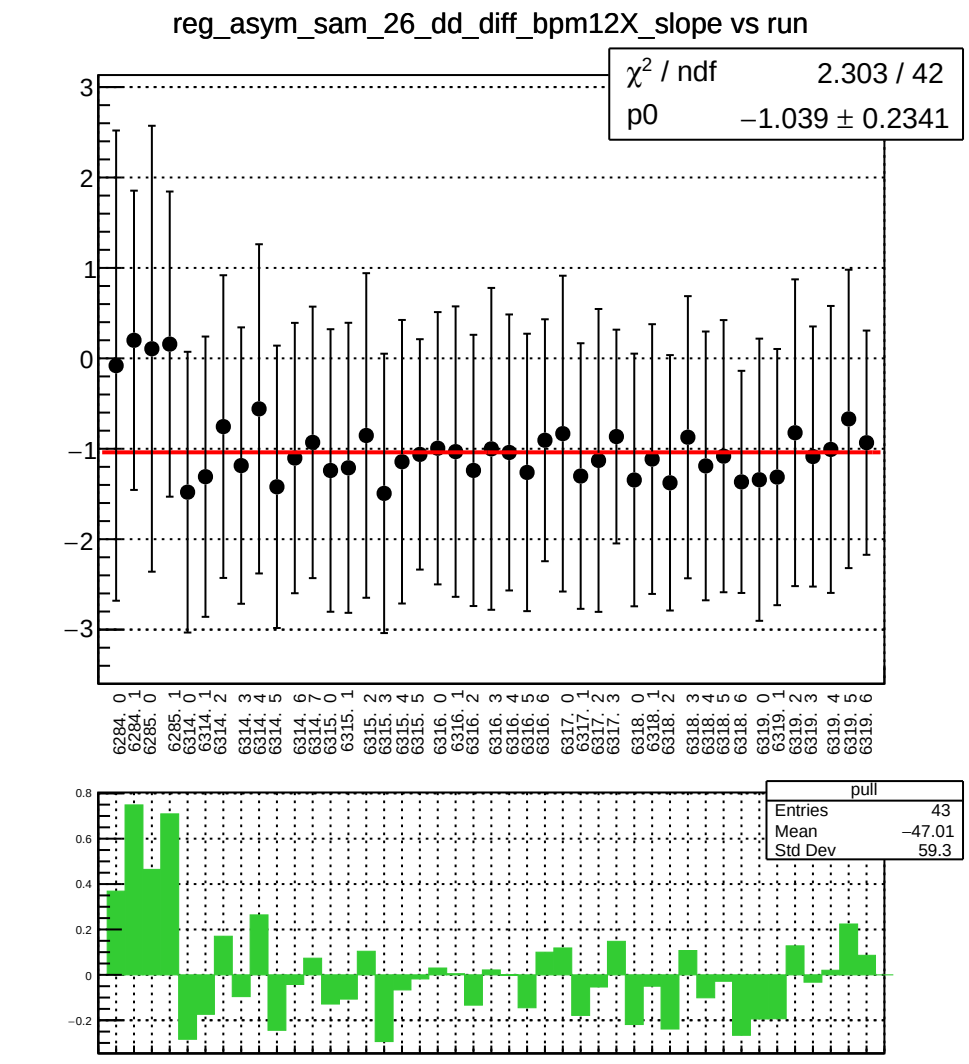

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.045 / 42
p0 −27.86 ± 2.42
pull
Entries 43
Mean 219.2
Std Dev 193.2

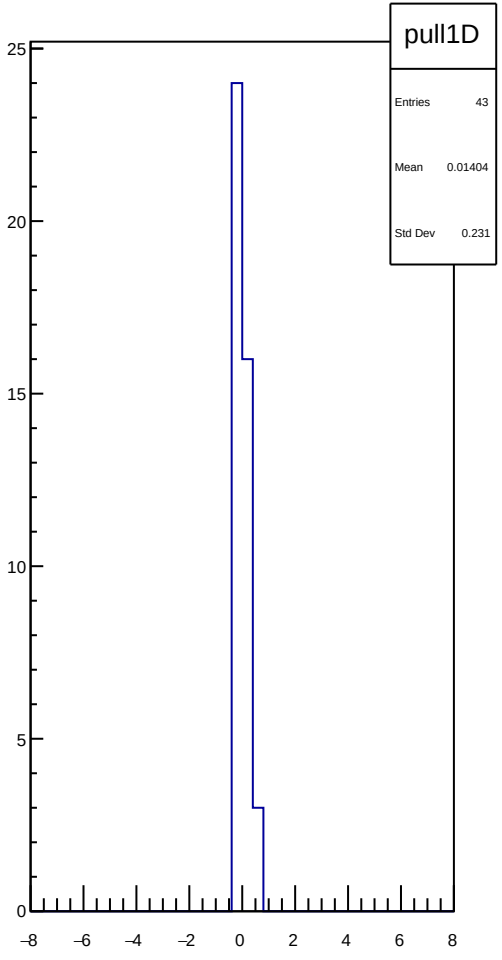

pull1D
Entries 43
Mean −0.005527
Std Dev 0.1558

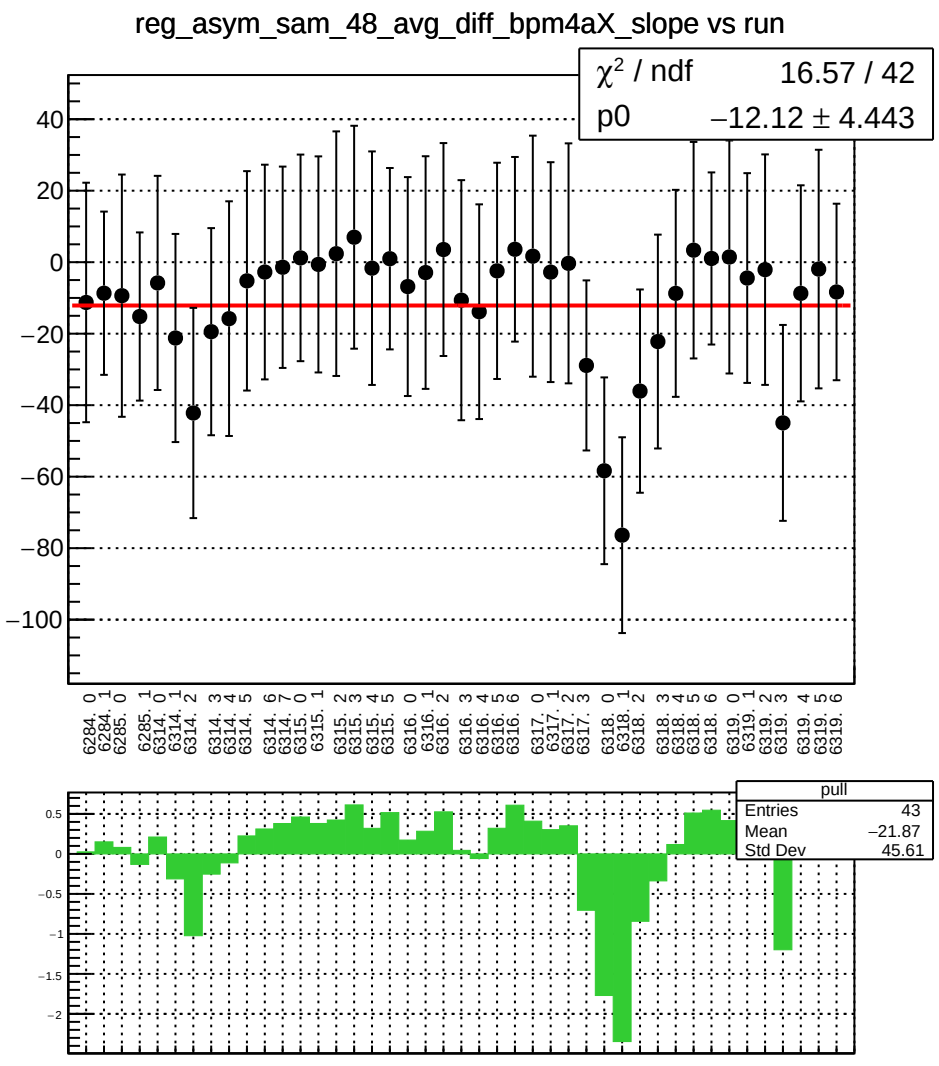

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.439 / 42
p0 −42.11 ± 6.116
pull
Entries 43
Mean −154
Std Dev 171.5
pull1D
Entries 43
Mean −0.006499
Std Dev 0.2381

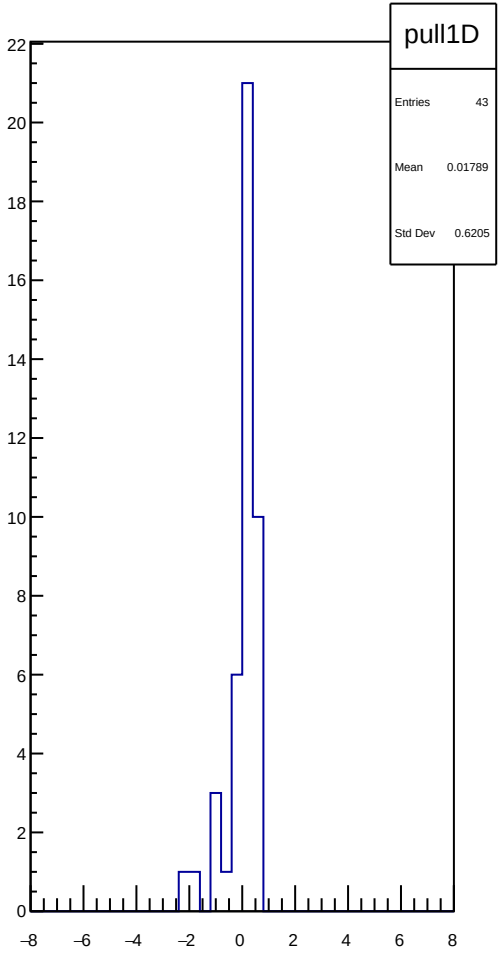

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.471 / 42
p0 −114.8 ± 2.978
pull
Entries 43
Mean 1573
Std Dev 1548

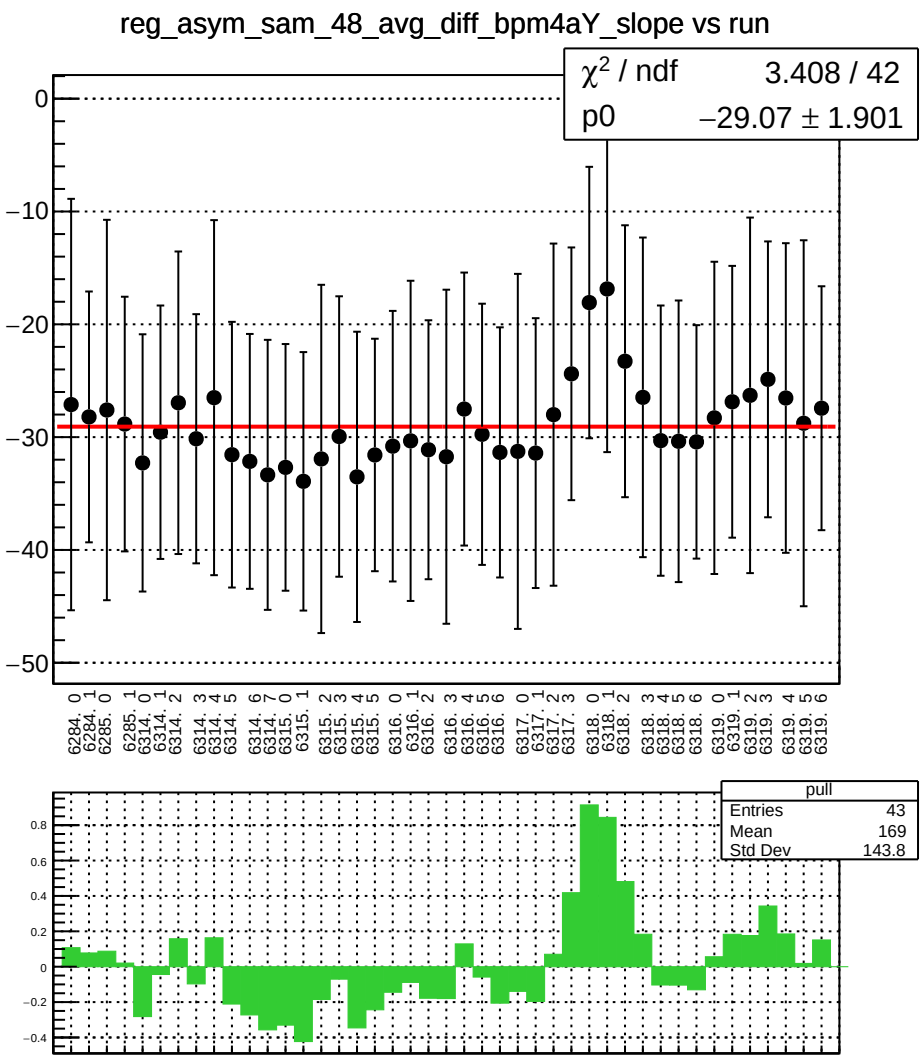

pull1D
Entries 43
Mean 0.001022
Std Dev 0.1849

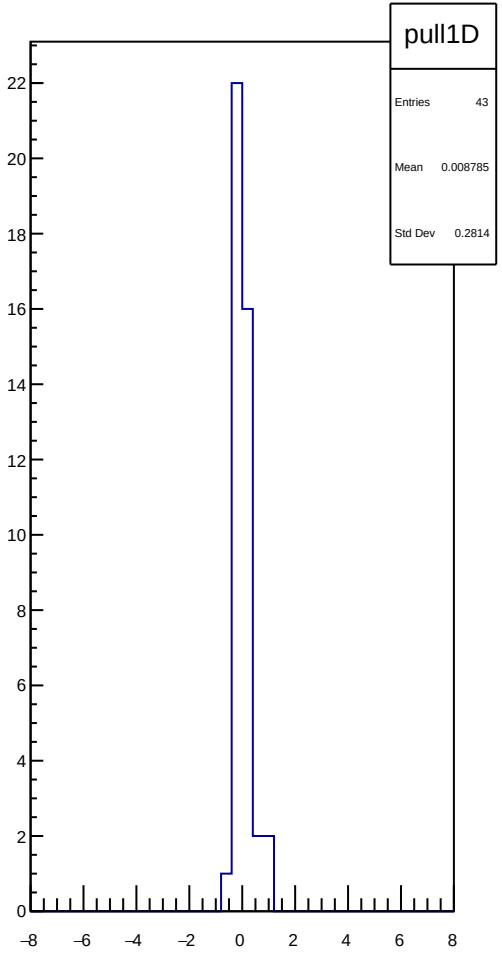

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.303 / 42
p0 −1.039 ± 0.2341
pull
Entries 43
Mean −47.01
Std Dev 59.3

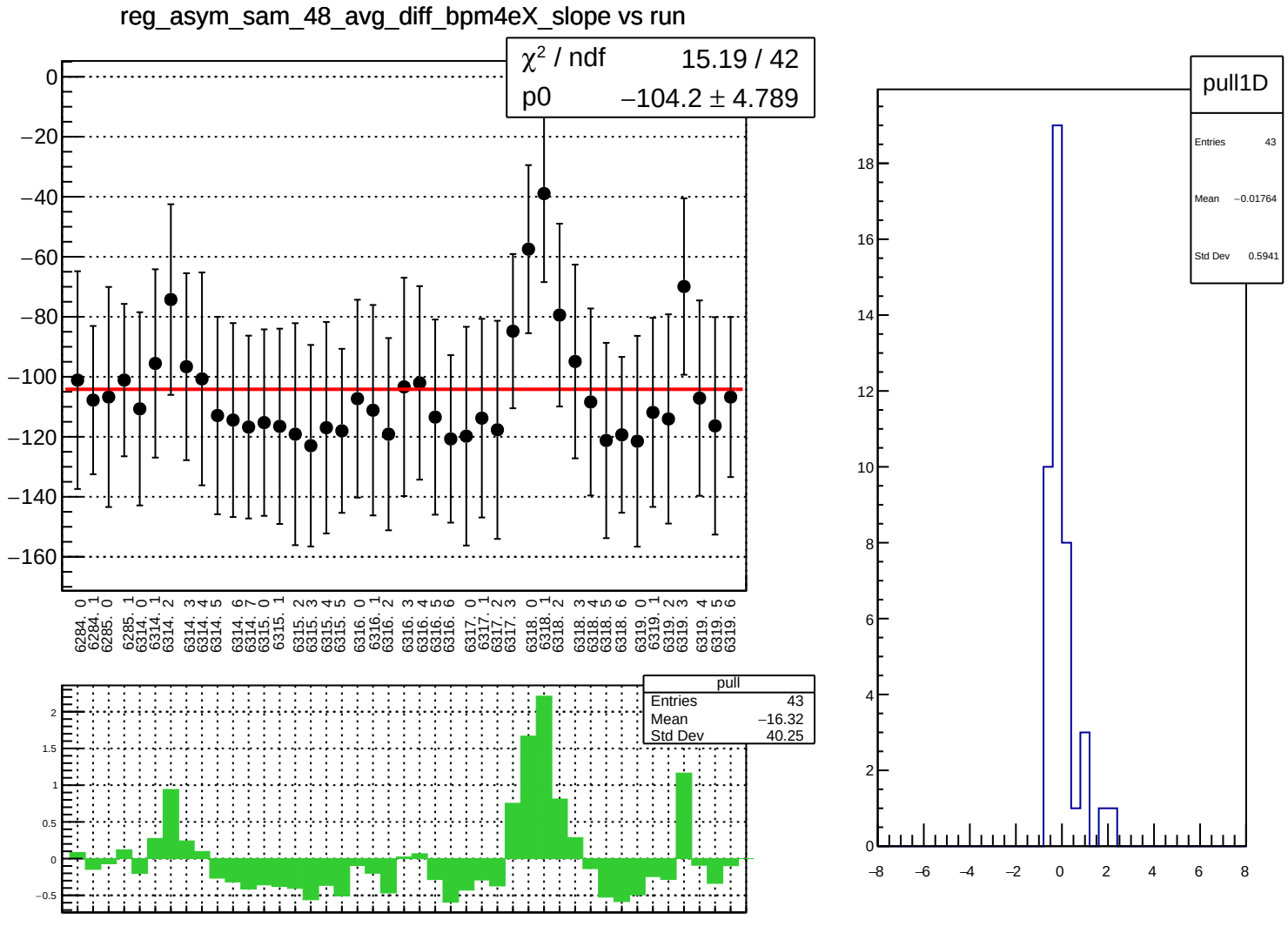

pull1D
Entries 43
Mean 0.01404
Std Dev 0.231

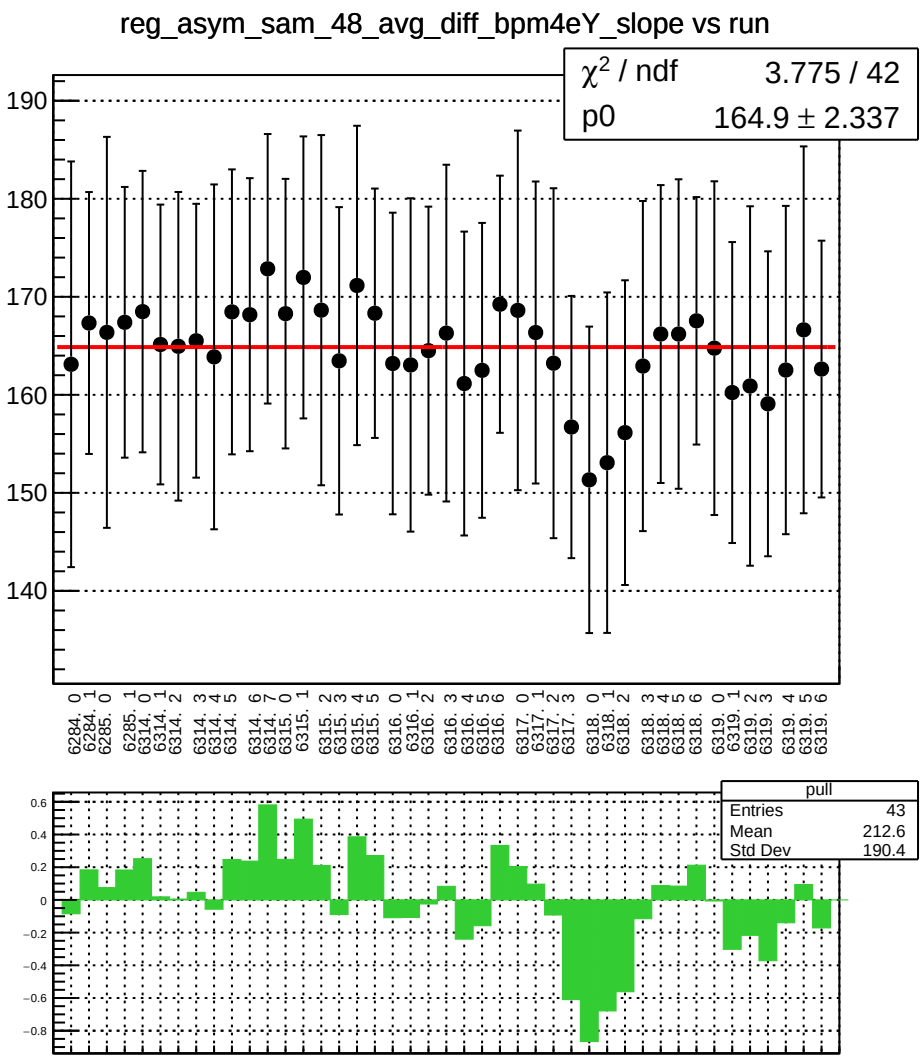

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.57 / 42
p0 −12.12 ± 4.443
40
20
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −21.87
Std Dev 45.61
0.5
0
−0.5
−1
−1.5
−2

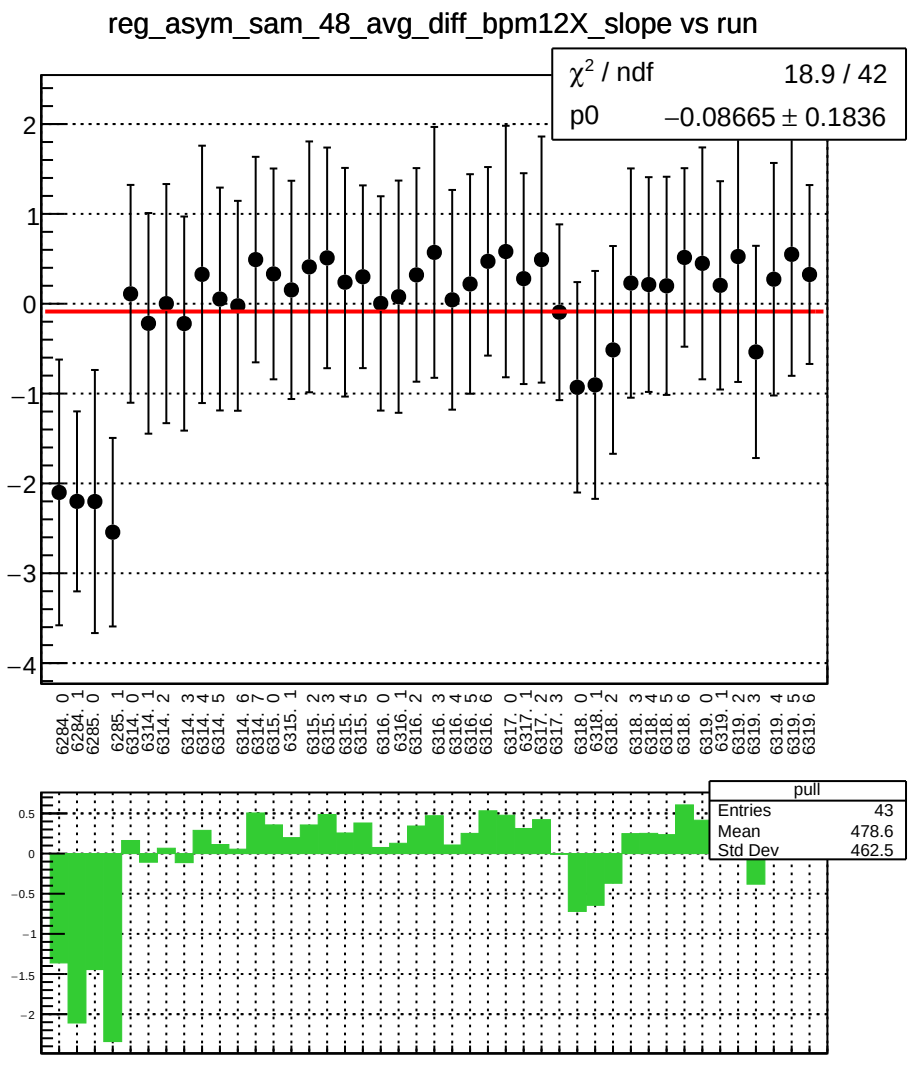

pull1D
Entries 43
Mean 0.01789
Std Dev 0.6205
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

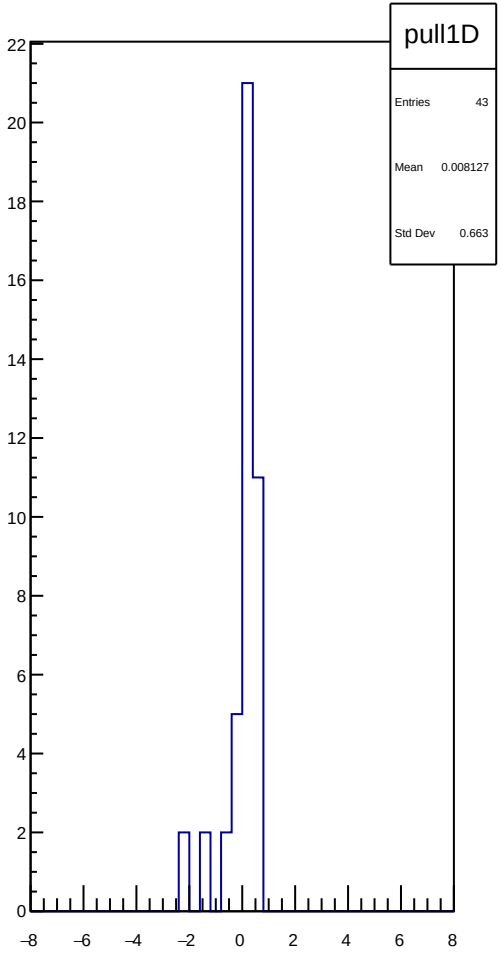

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.408 / 42
p0 −29.07 ± 1.901
pull
Entries 43
Mean 169
Std Dev 143.8

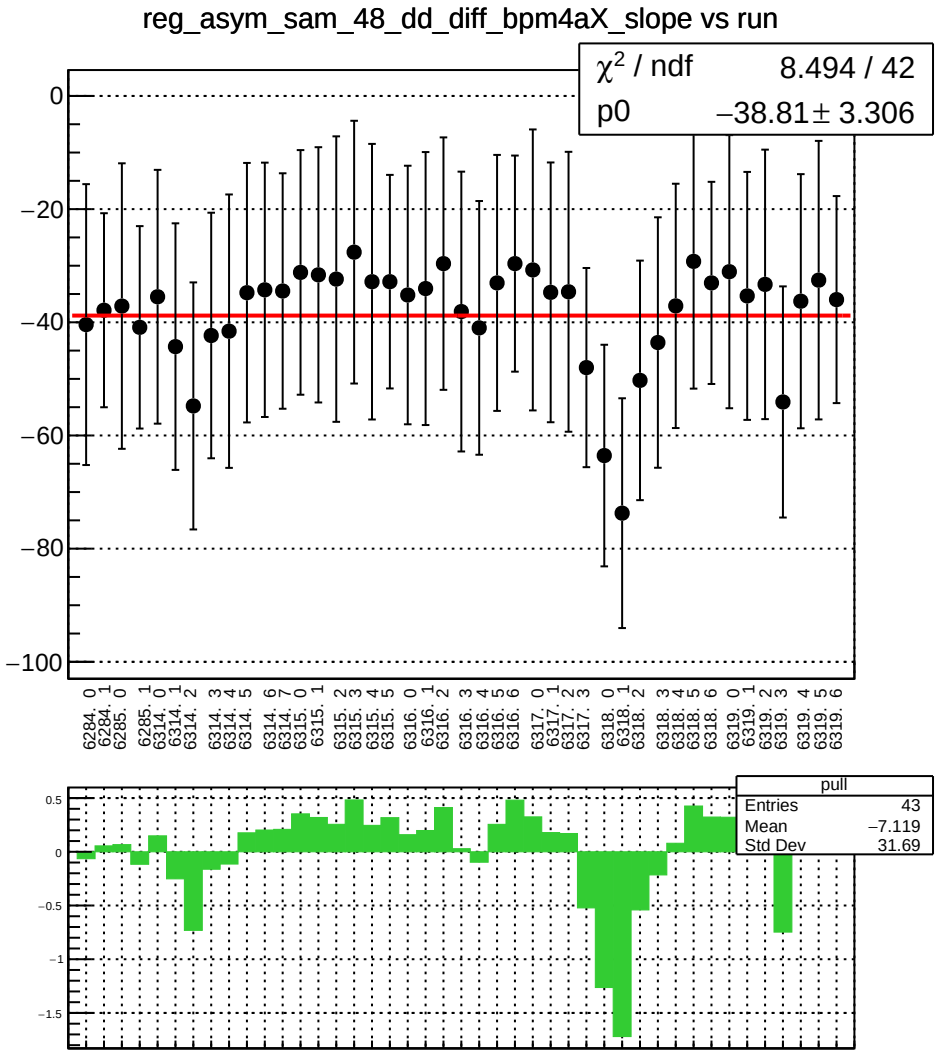

pull1D
Entries 43
Mean 0.008785
Std Dev 0.2814

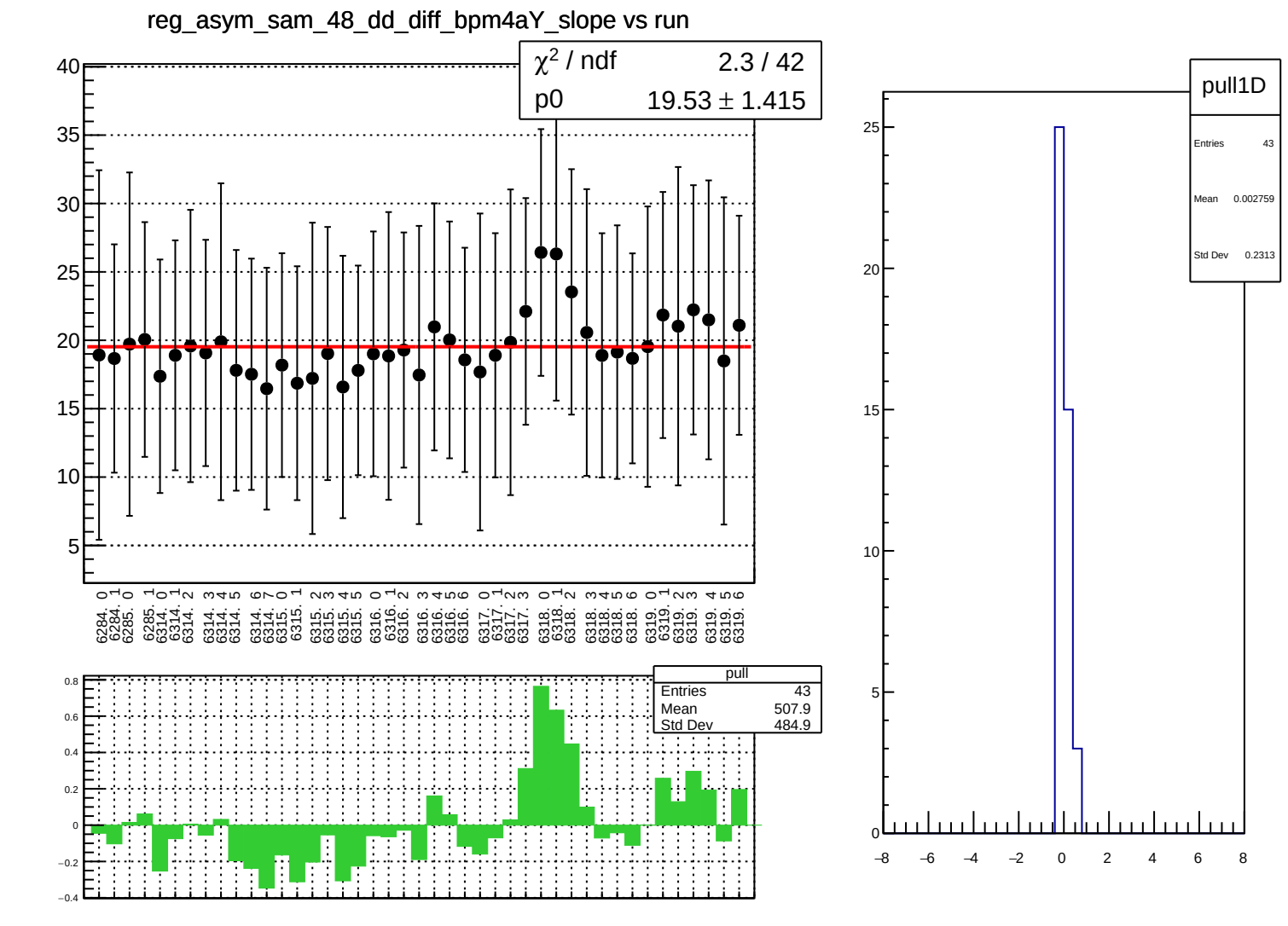

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.19 / 42
p0 −104.2 ± 4.789
0
−20
−40
−60
−80
−100
−120
−140
−160
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −16.32
Std Dev 40.25
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.01764
Std Dev 0.5941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

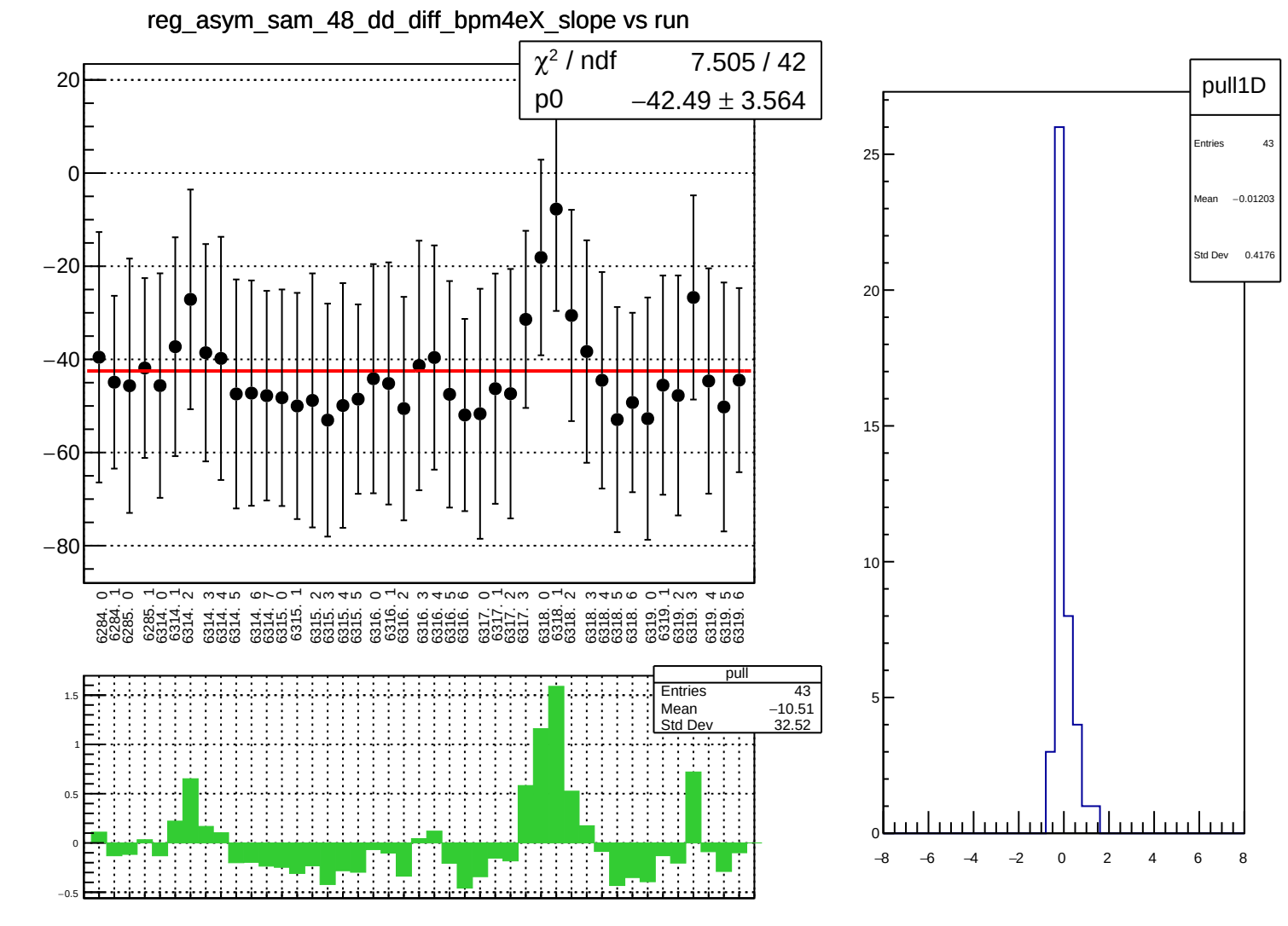

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.775 / 42
p0 164.9 ± 2.337
190
180
170
160
150
140
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 212.6
Std Dev 190.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.008484
Std Dev 0.2962
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

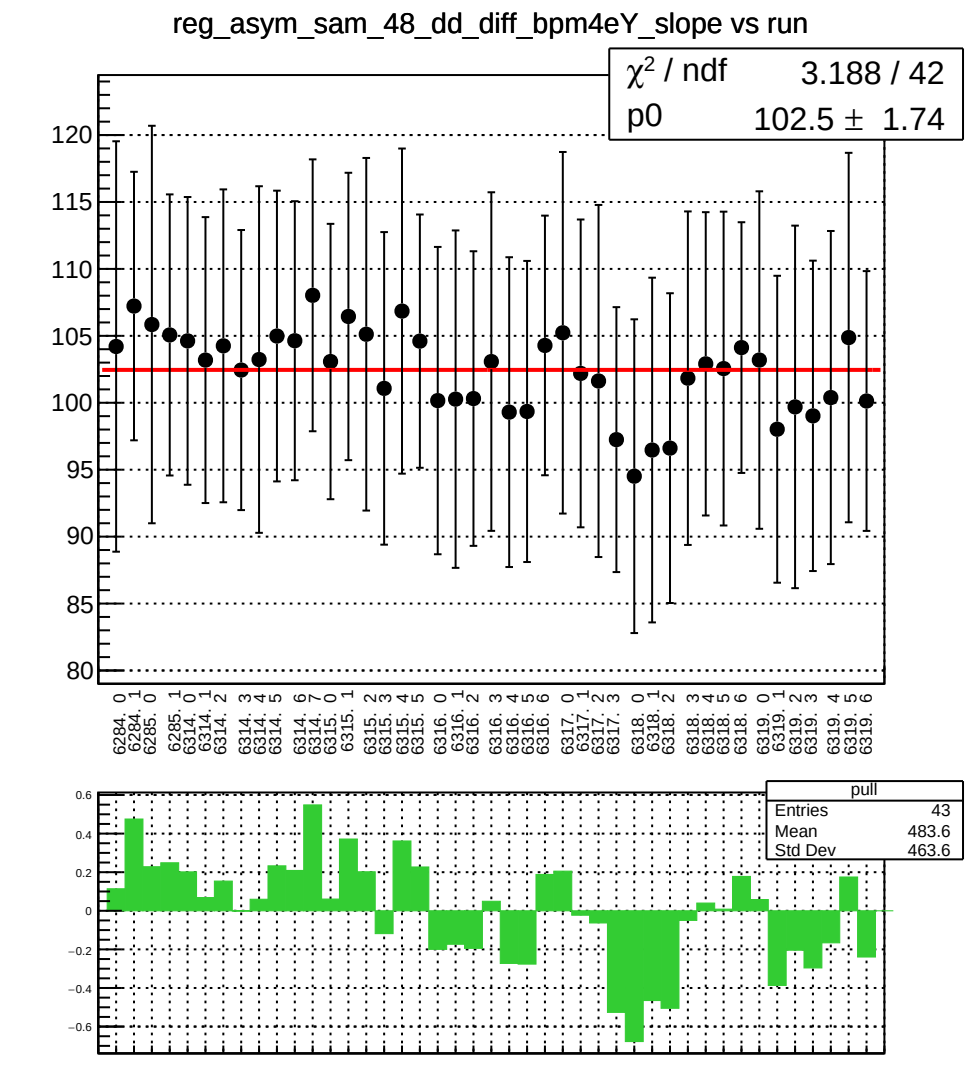

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 18.9 / 42
p0 −0.08665 ± 0.1836
pull
Entries 43
Mean 478.6
Std Dev 462.5

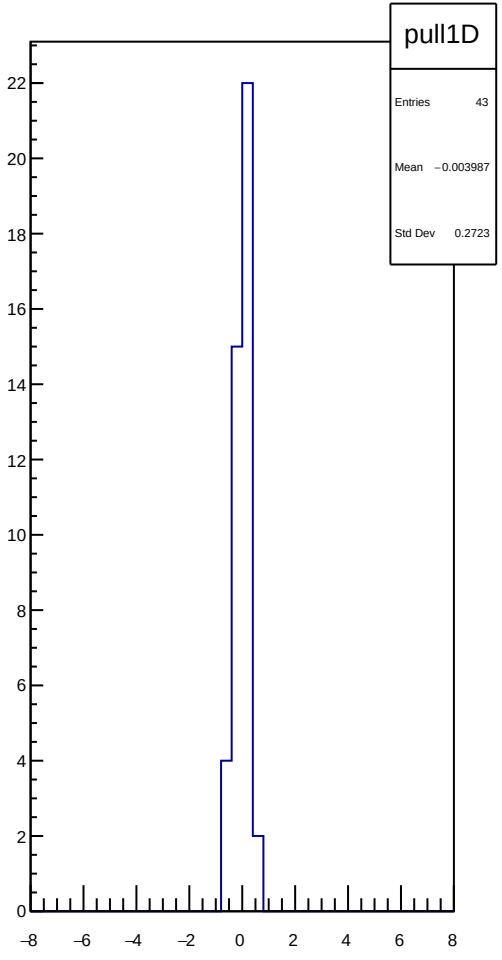

pull1D
Entries 43
Mean 0.008127
Std Dev 0.663

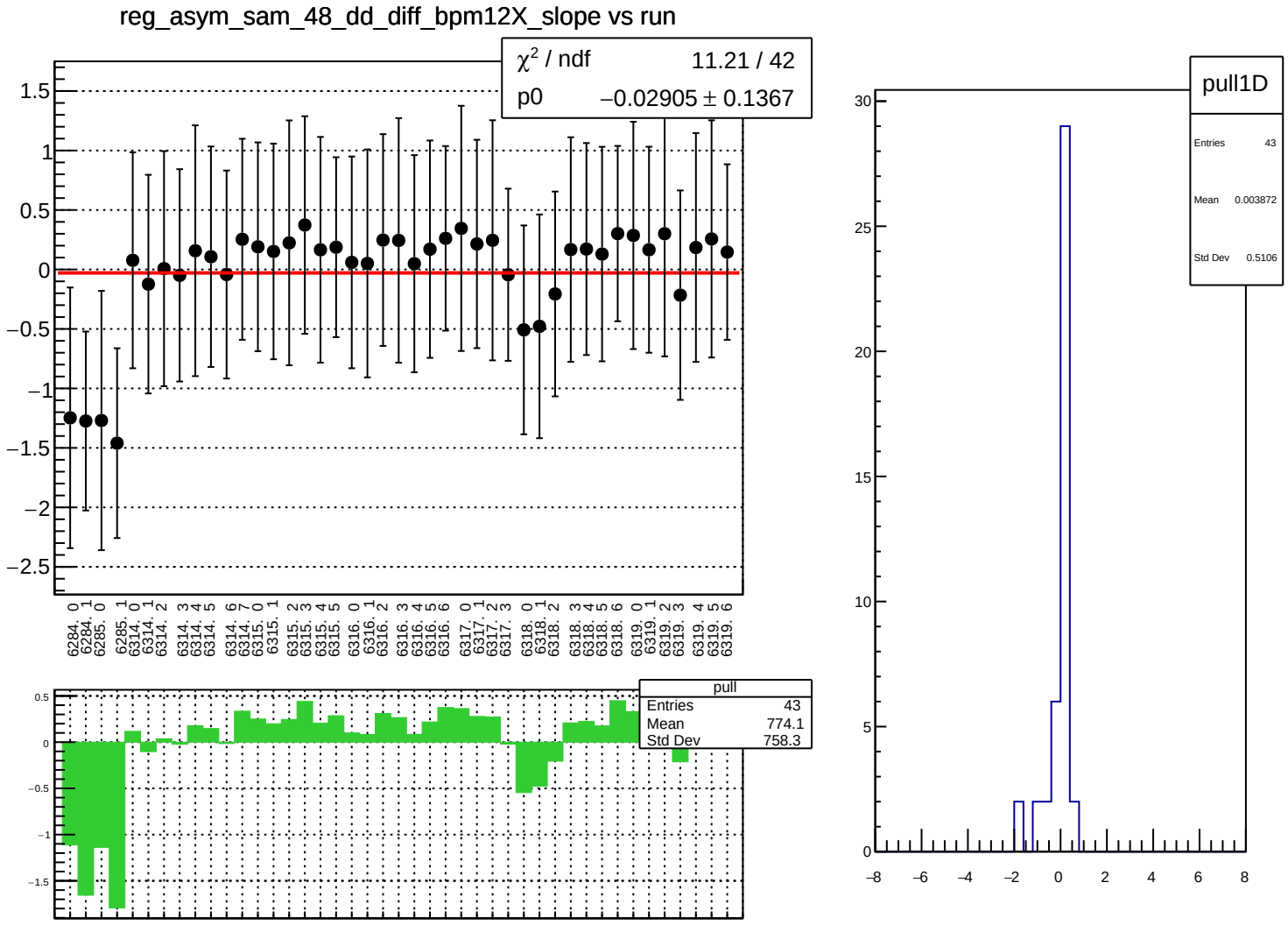

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.494 / 42
p0 −38.81 ± 3.306
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −7.119
Std Dev 31.69
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01295
Std Dev 0.4442
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

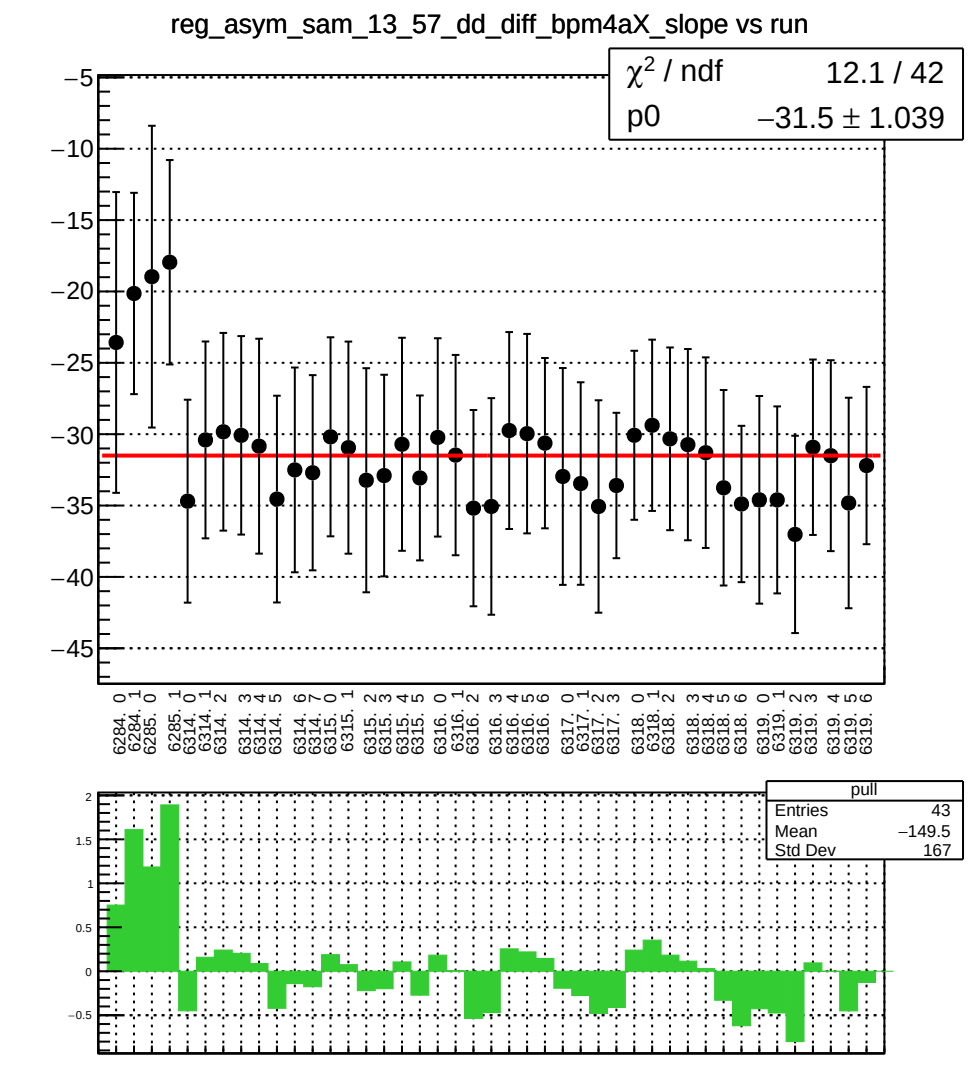

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.3 / 42
p0 19.53 ± 1.415
pull
Entries 43
Mean 507.9
Std Dev 484.9
pull1D
Entries 43
Mean 0.002759
Std Dev 0.2313

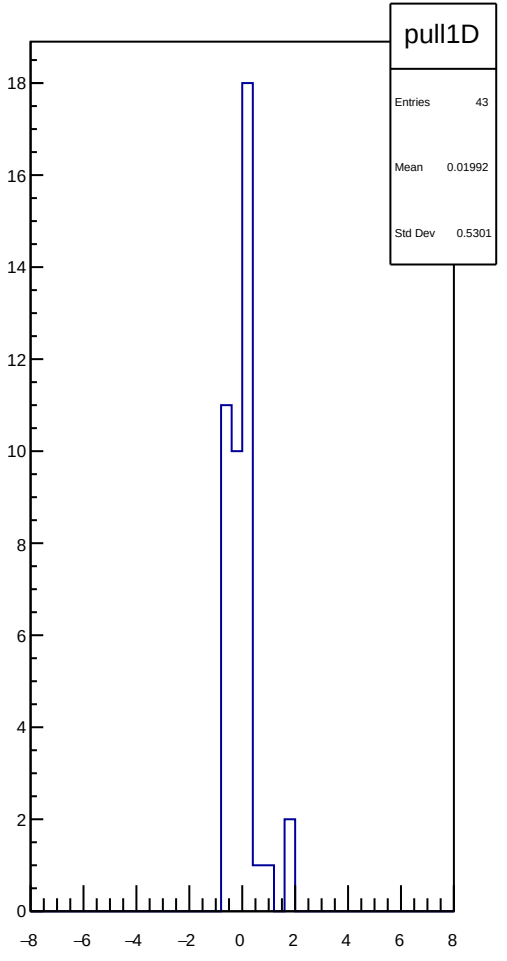

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.505 / 42
p0 −42.49 ± 3.564
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −10.51
Std Dev 32.52
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.01203
Std Dev 0.4176
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

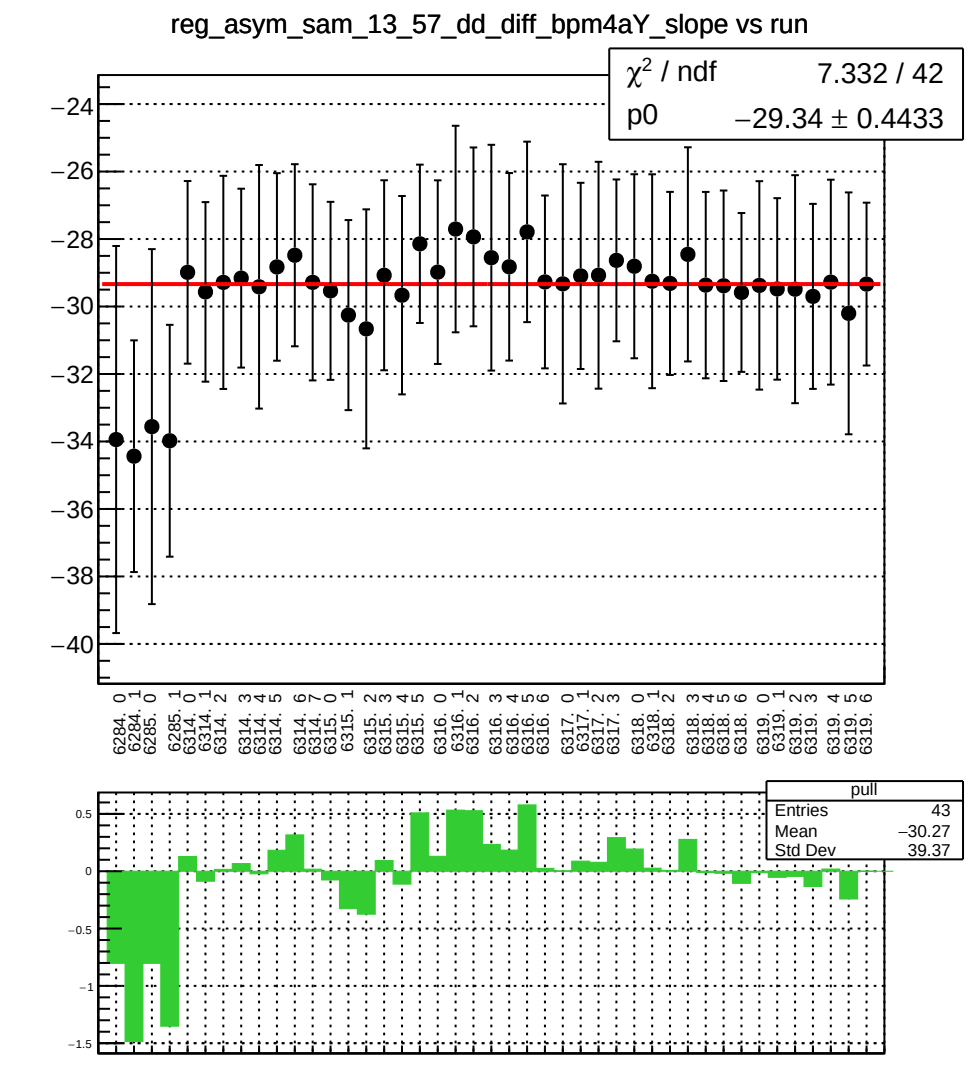

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.188 / 42
p0 102.5 ± 1.74
pull
Entries 43
Mean 483.6
Std Dev 463.6

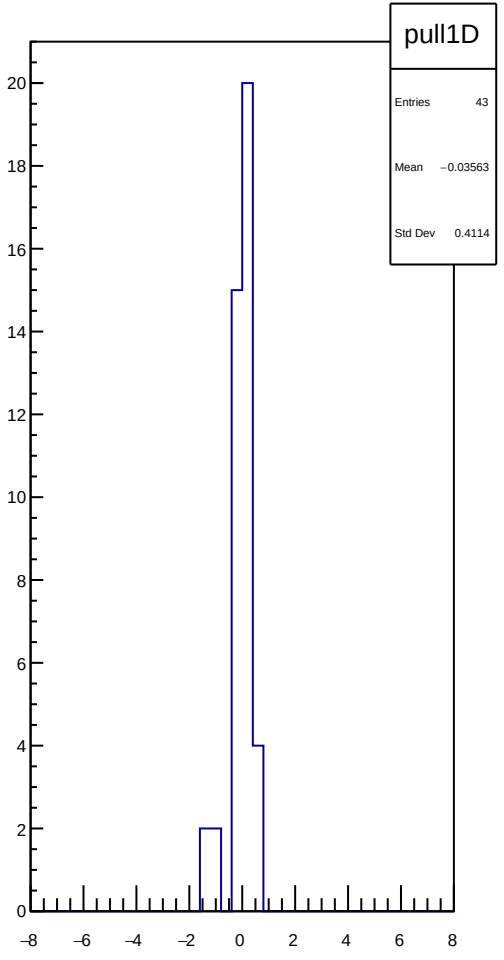

pull1D
Entries 43
Mean −0.003987
Std Dev 0.2723

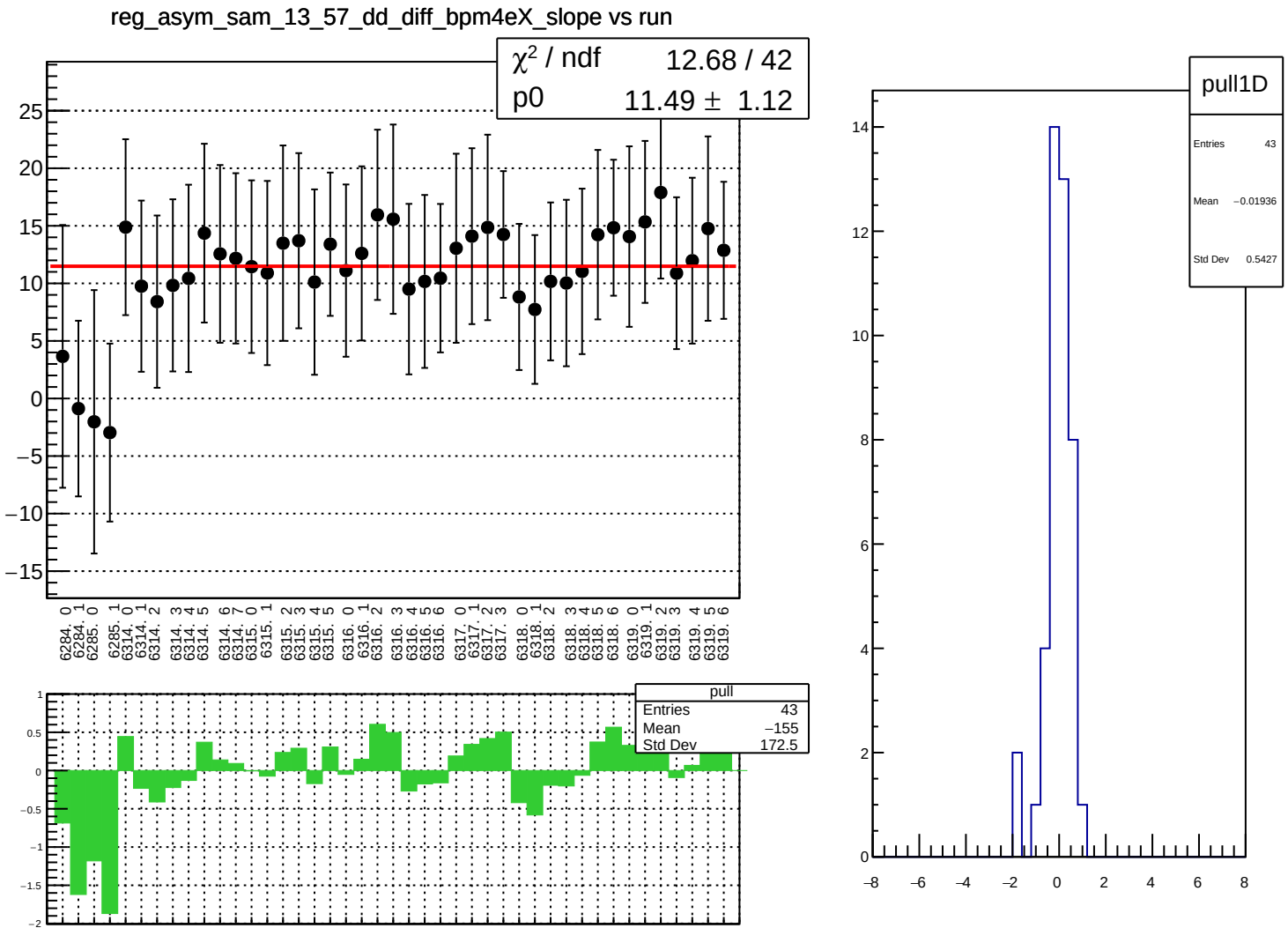

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.21 / 42
p0 −0.02905 ± 0.1367
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 774.1
Std Dev 758.3
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.003872
Std Dev 0.5106
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

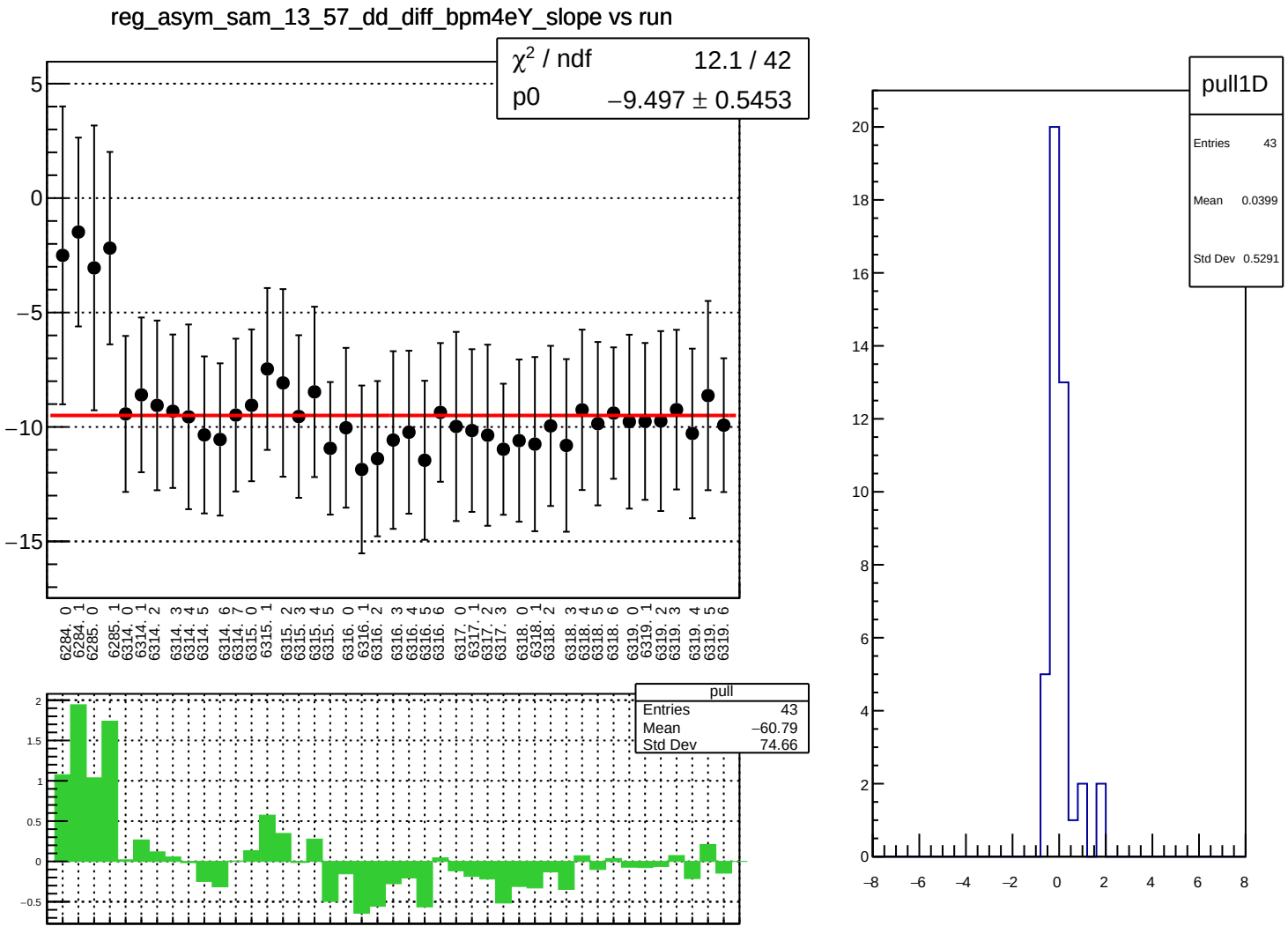

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.1 / 42
p0 −31.5 ± 1.039
pull
Entries 43
Mean −149.5
Std Dev 167

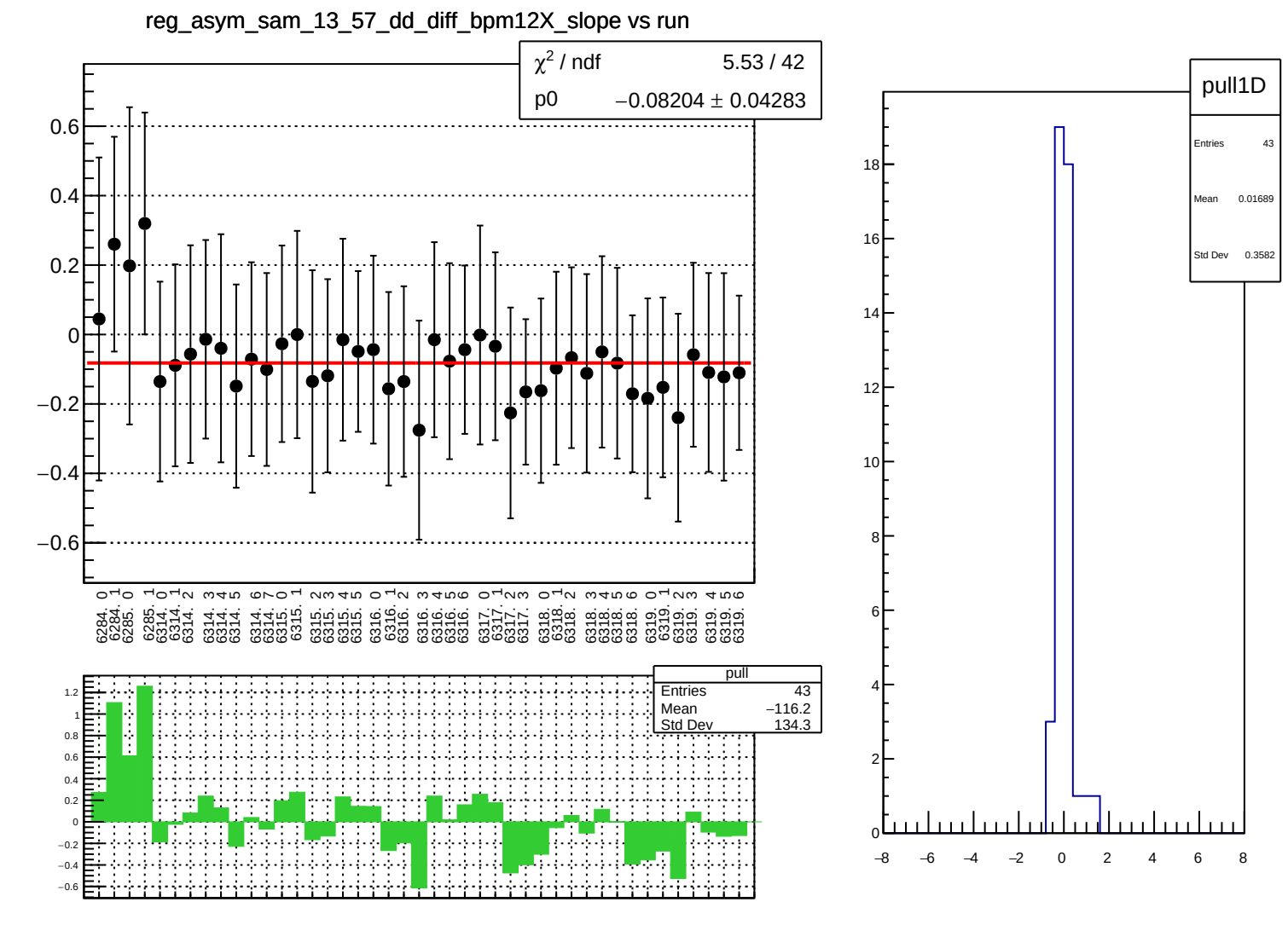

pull1D
Entries 43
Mean 0.01992
Std Dev 0.5301

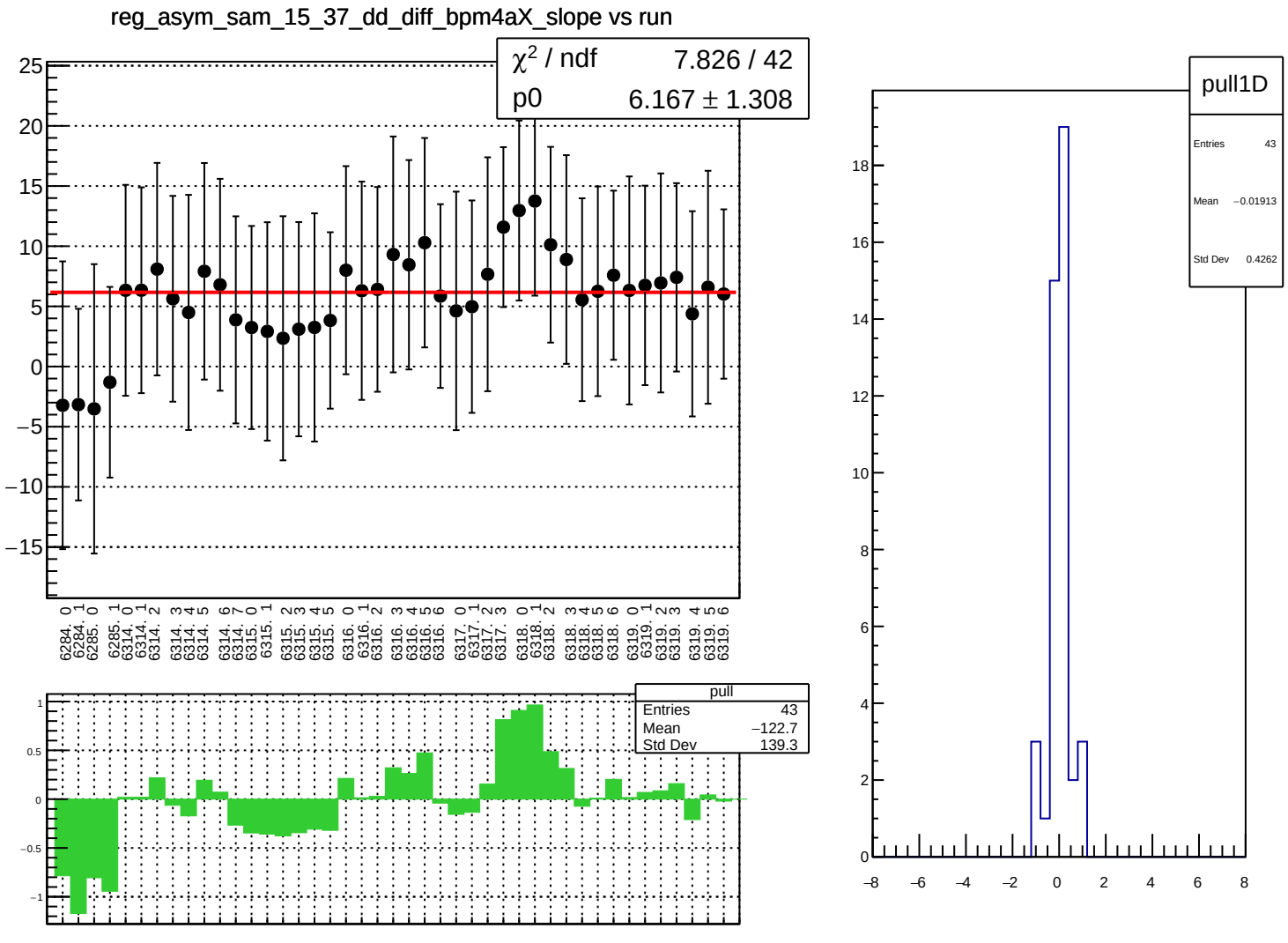

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.332 / 42
p0 −29.34 ± 0.4433
pull
Entries 43
Mean −30.27
Std Dev 39.37

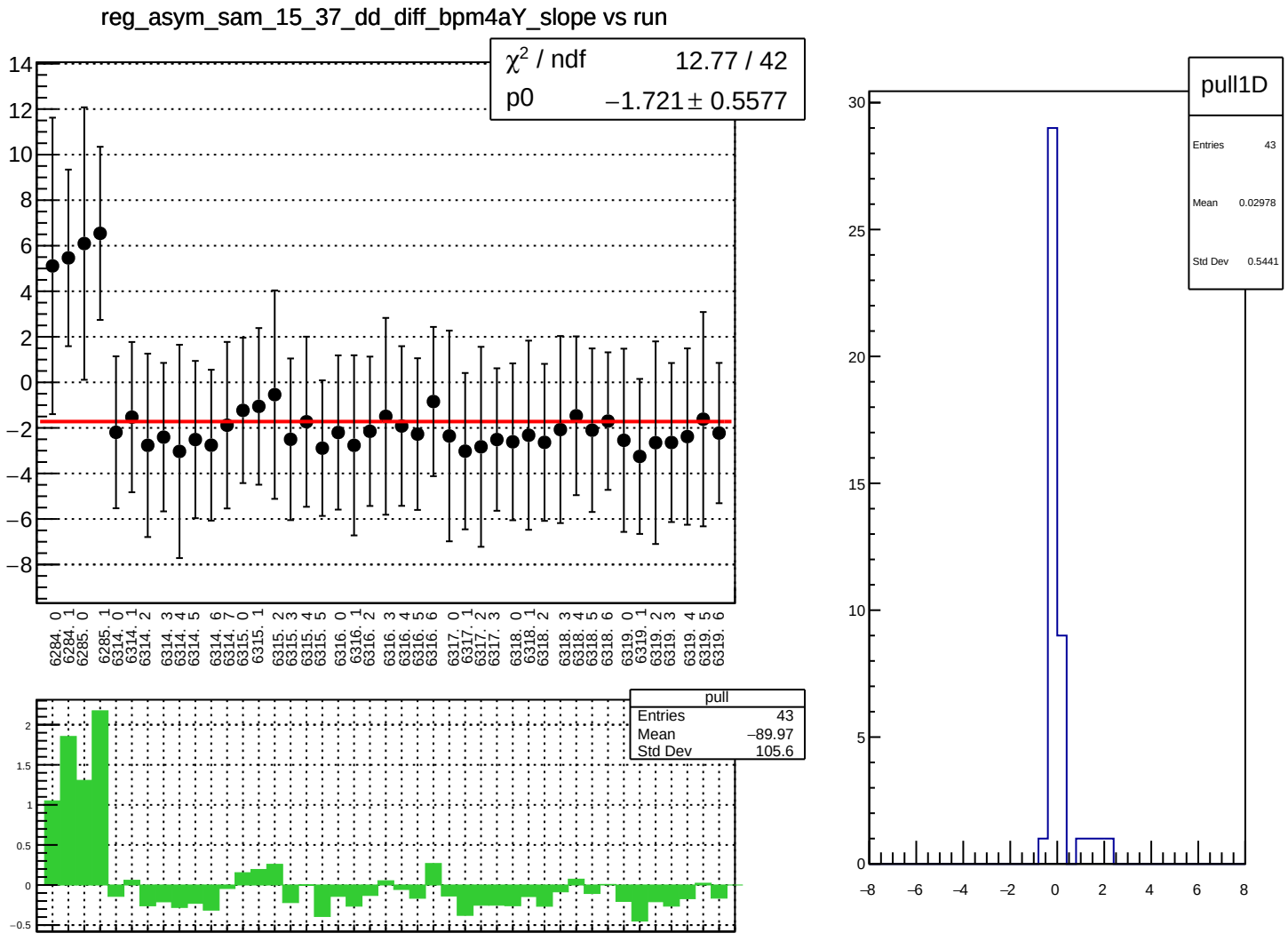

pull1D
Entries 43
Mean −0.03563
Std Dev 0.4114

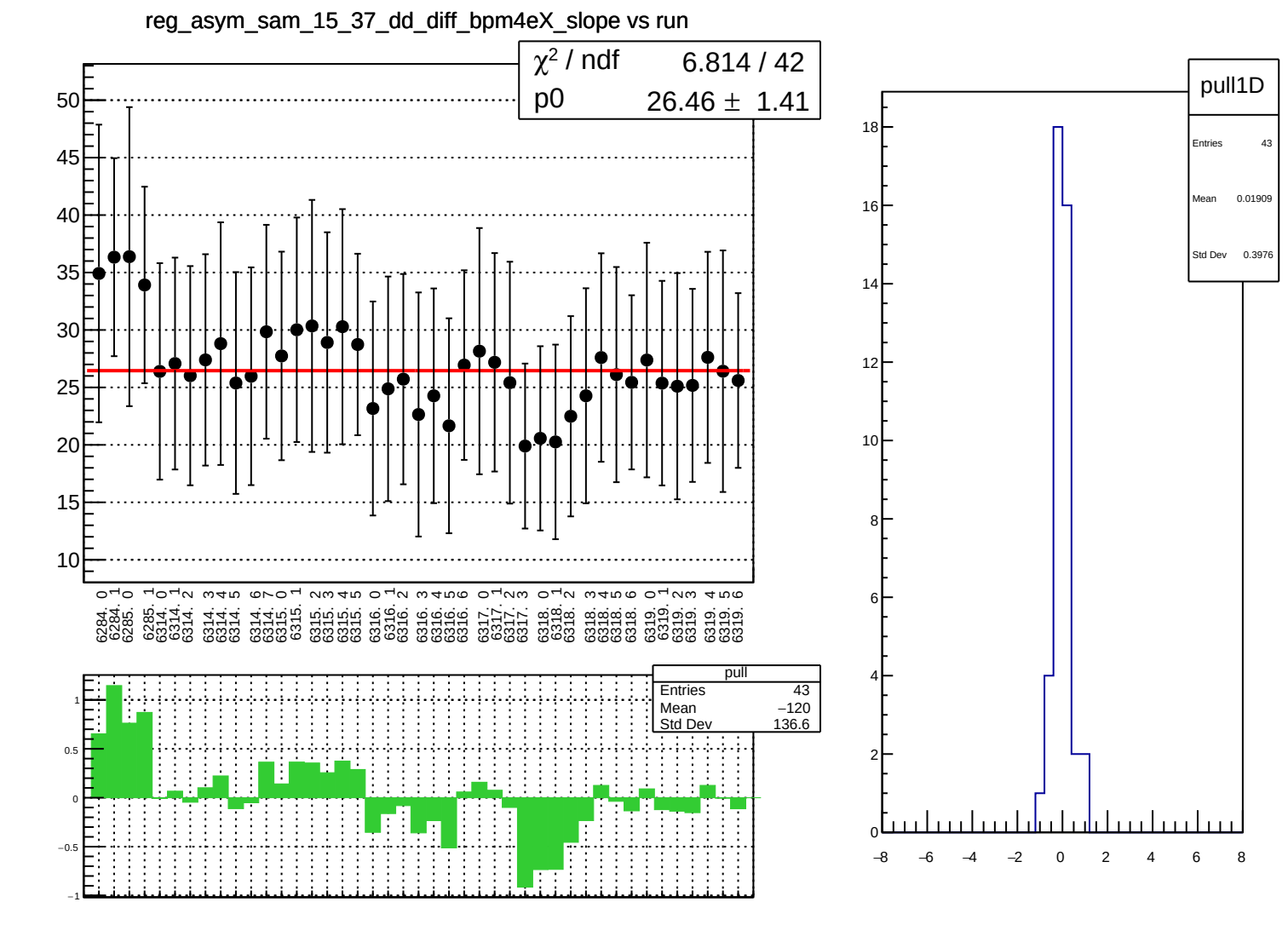

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.68 / 42
p0 11.49 ± 1.12
pull
Entries 43
Mean −155
Std Dev 172.5
pull1D
Entries 43
Mean −0.01936
Std Dev 0.5427

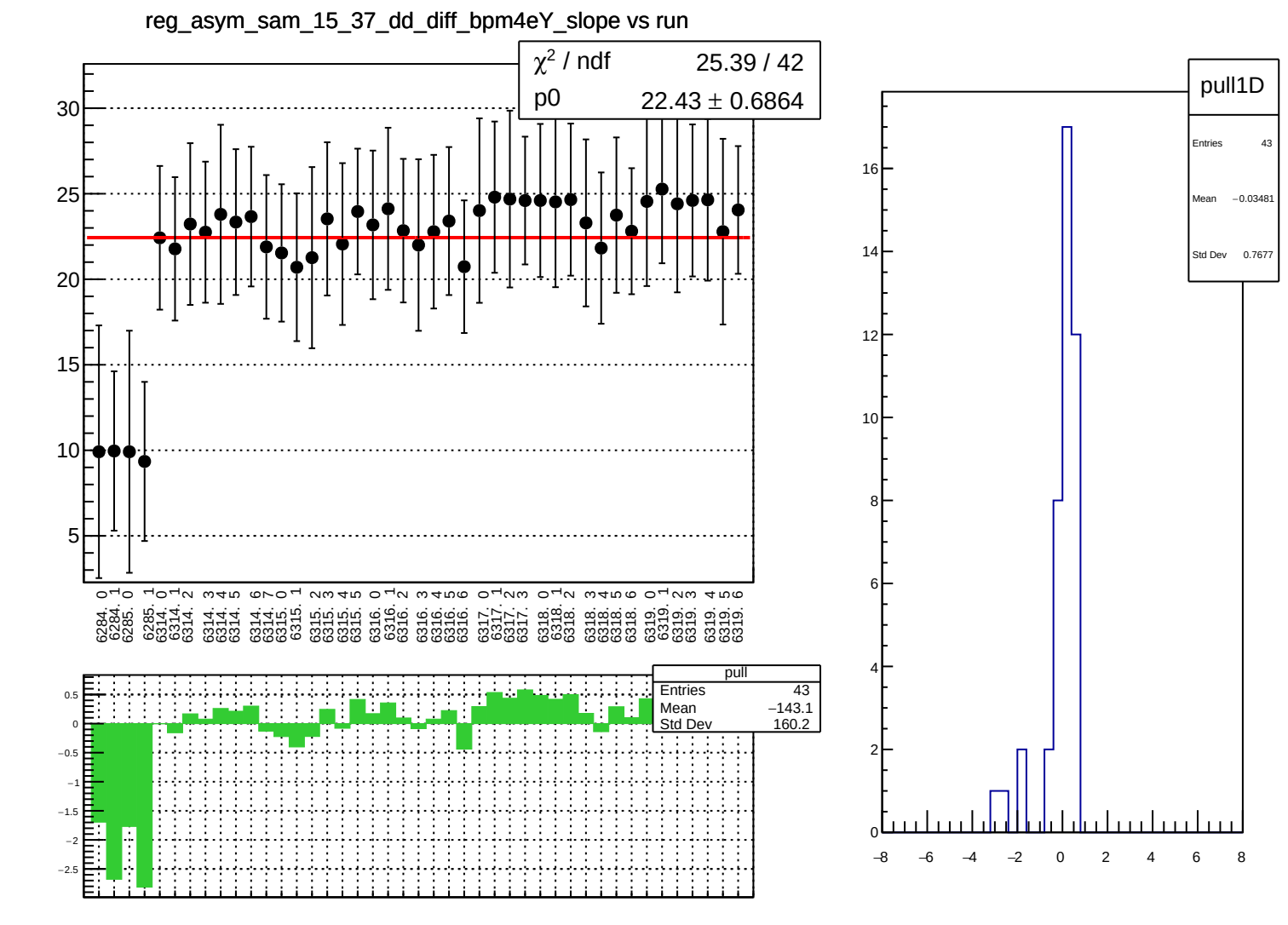

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.1 / 42
p0 −9.497 ± 0.5453
5
0
−5
−10
−15
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −60.79
Std Dev 74.66
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean 0.0399
Std Dev 0.5291
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

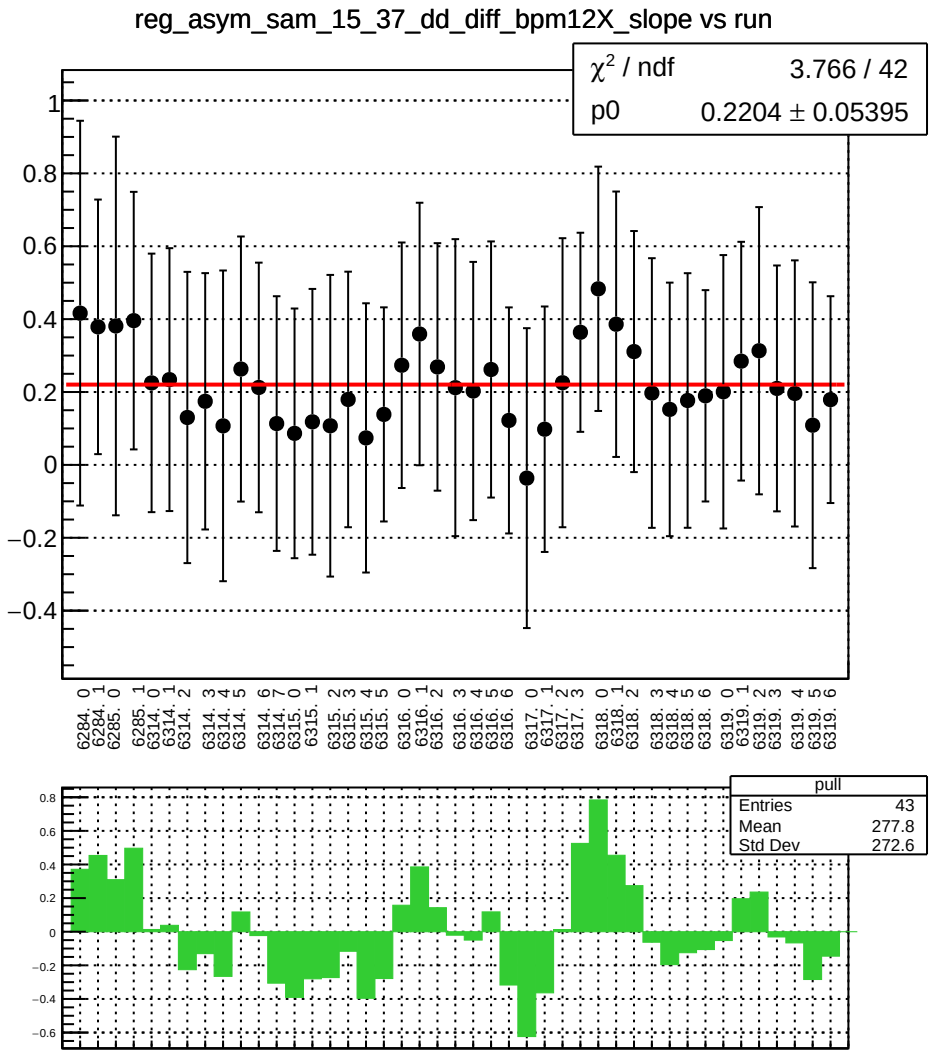

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 5.53 / 42
p0 −0.08204 ± 0.04283
pull
Entries 43
Mean −116.2
Std Dev 134.3
pull1D
Entries 43
Mean 0.01689
Std Dev 0.3582

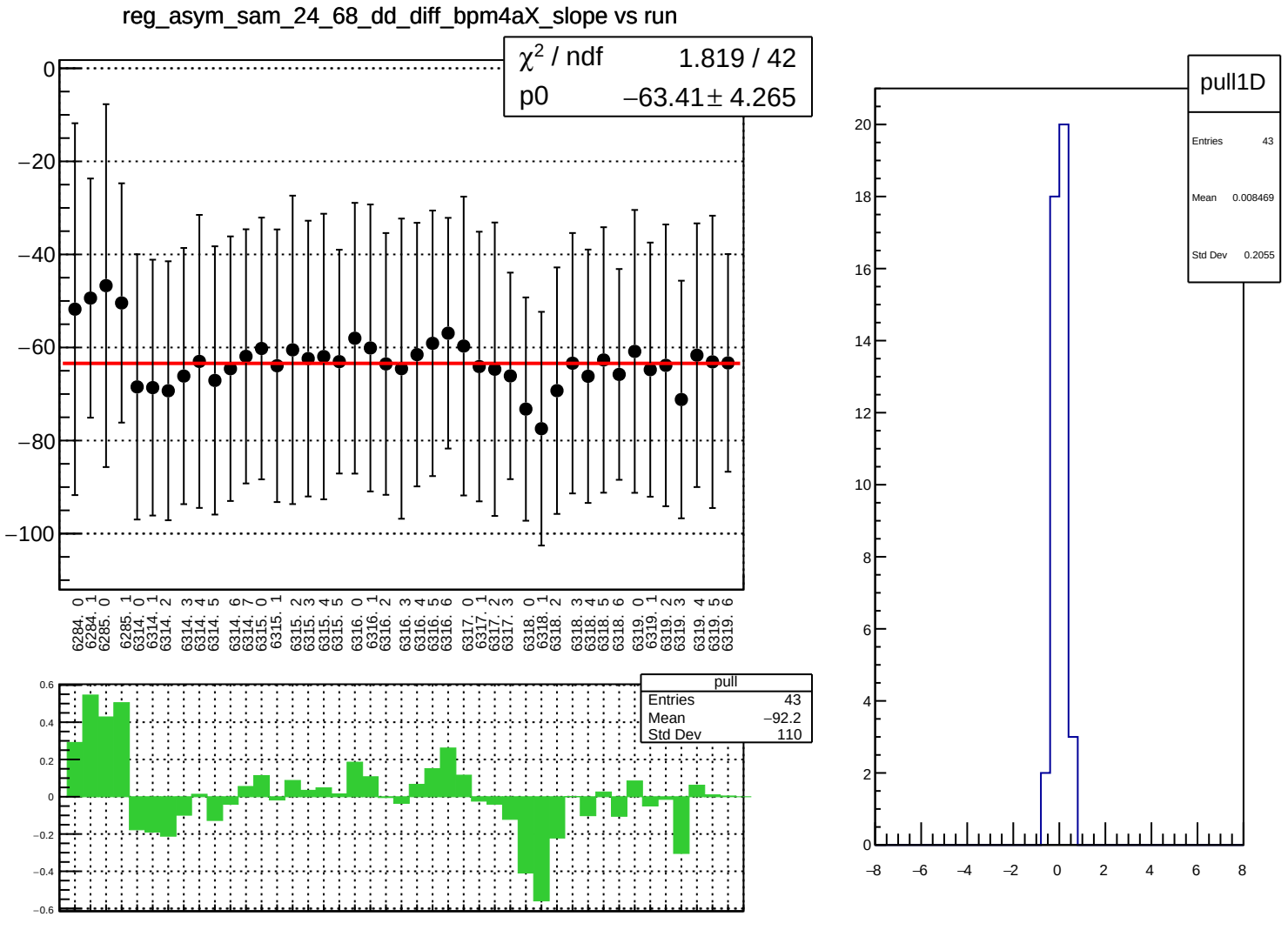

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.826 / 42
p0 6.167 ± 1.308
pull
Entries 43
Mean −122.7
Std Dev 139.3
pull1D
Entries 43
Mean −0.01913
Std Dev 0.4262

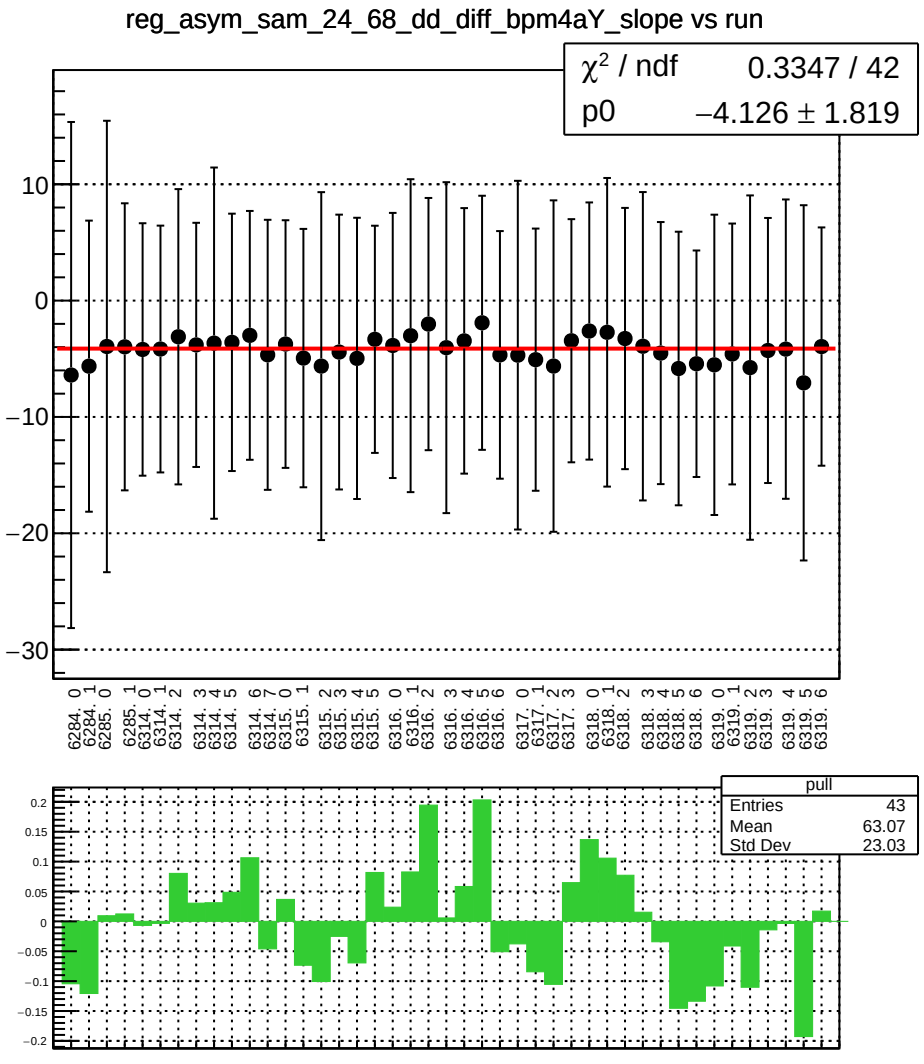

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.77 / 42
p0 −1.721 ± 0.5577
pull
Entries 43
Mean −89.97
Std Dev 105.6
pull1D
Entries 43
Mean 0.02978
Std Dev 0.5441

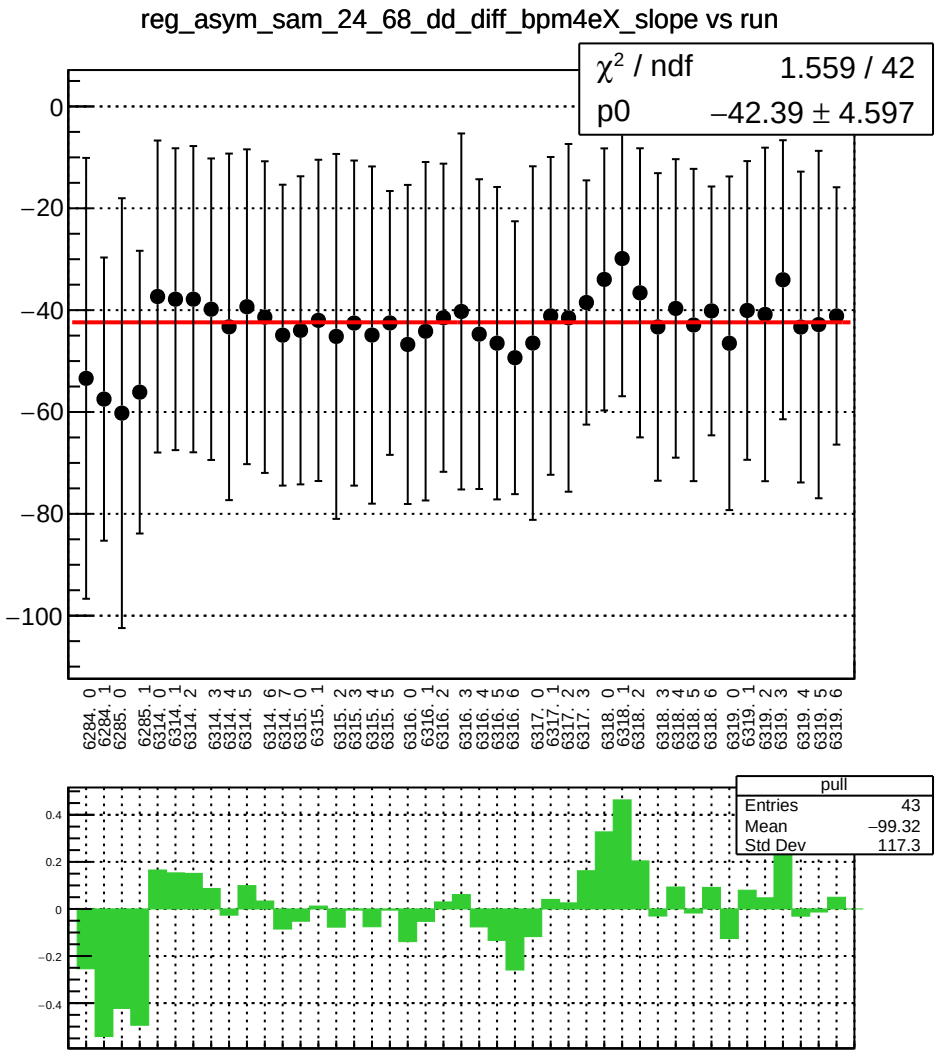

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.814 / 42
p0 26.46 ± 1.41
50
45
40
35
30
25
20
15
10
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −120
Std Dev 136.6
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01909
Std Dev 0.3976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

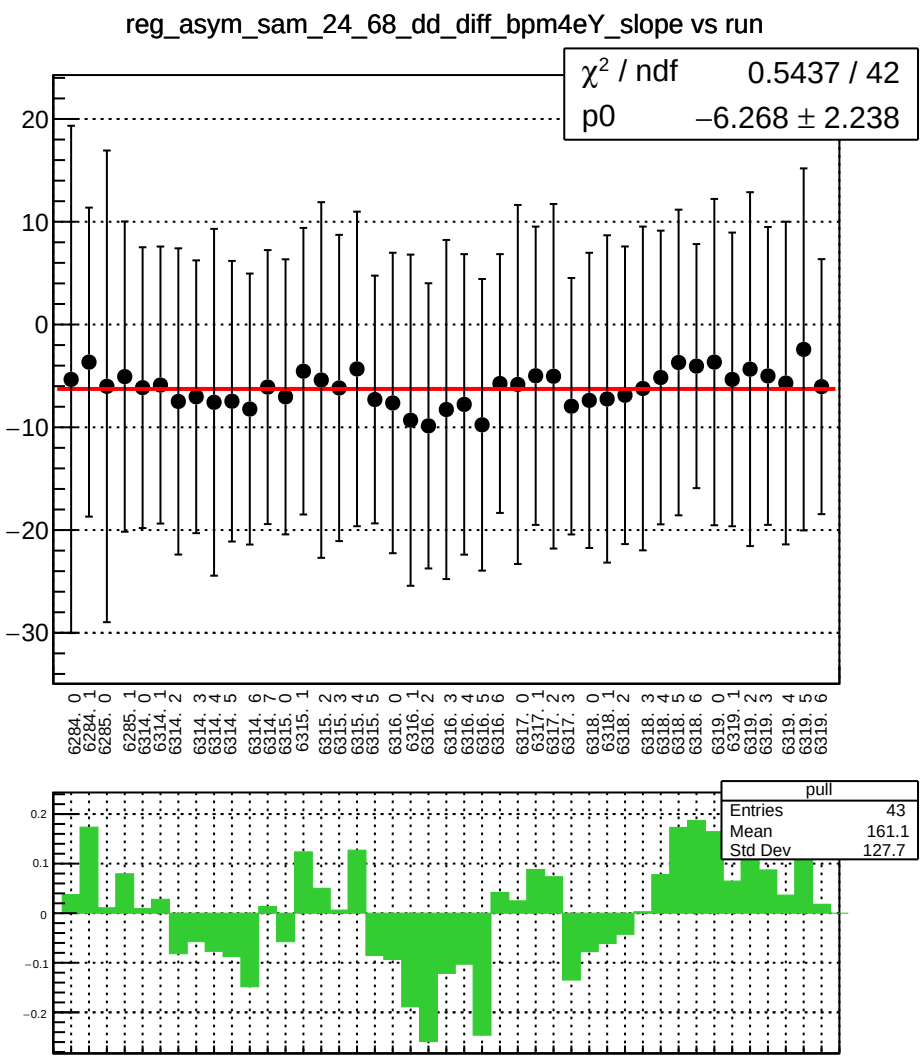

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.39 / 42
p0 22.43 ± 0.6864
pull
Entries 43
Mean −143.1
Std Dev 160.2
pull1D
Entries 43
Mean −0.03481
Std Dev 0.7677

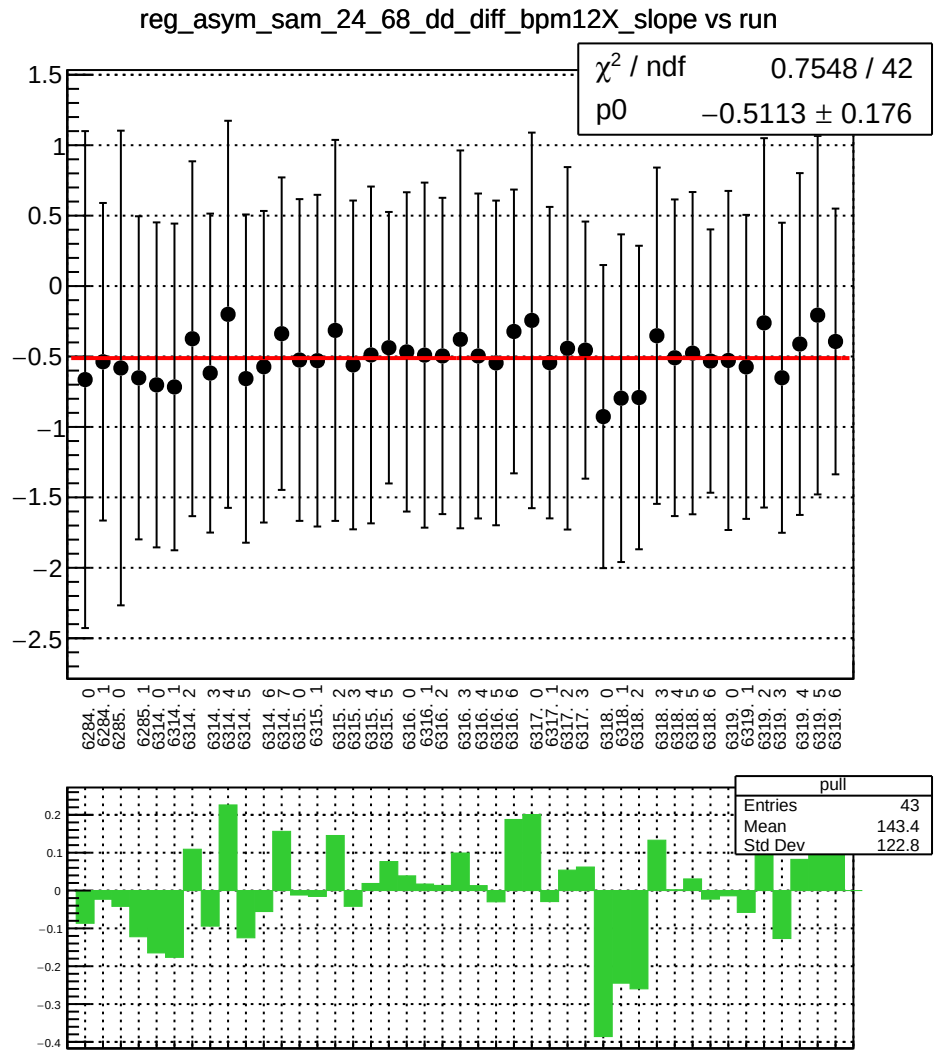

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.766 / 42
p0 0.2204 ± 0.05395
pull
Entries 43
Mean 277.8
Std Dev 272.6
pull1D
Entries 43
Mean −0.0009477
Std Dev 0.296

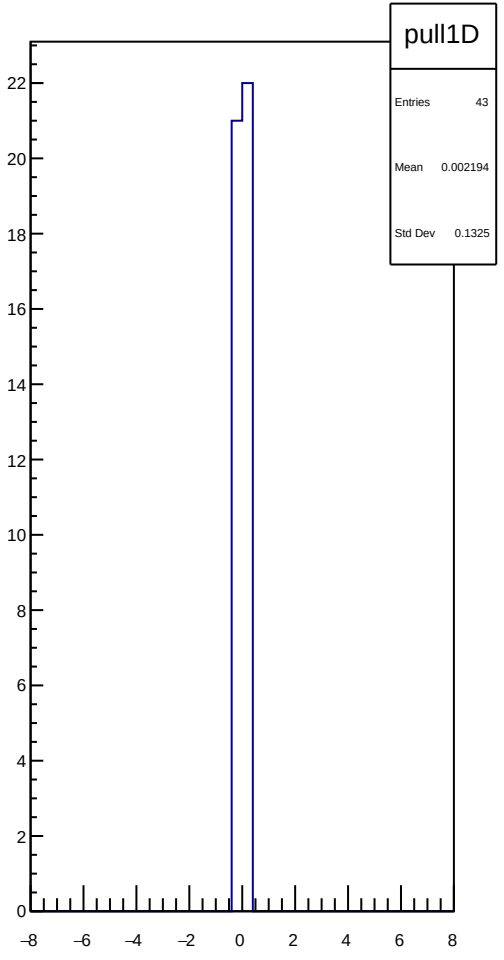

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.819 / 42
p0 −63.41 ± 4.265
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −92.2
Std Dev 110
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.008469
Std Dev 0.2055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

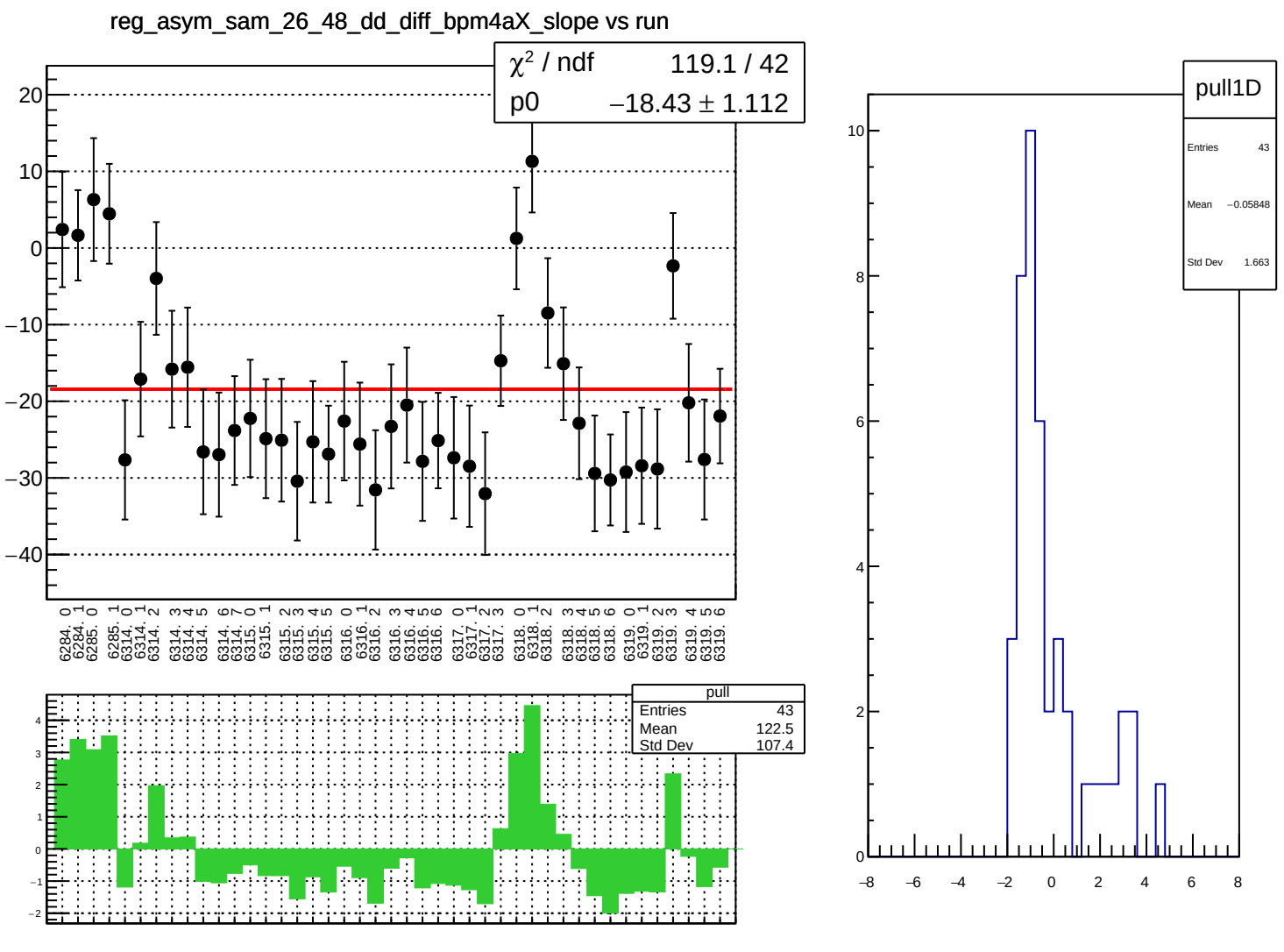

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3347 / 42
p0 −4.126 ± 1.819
10
0
−10
−20
−30
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 63.07
Std Dev 23.03
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 43
Mean −0.004391
Std Dev 0.08812
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

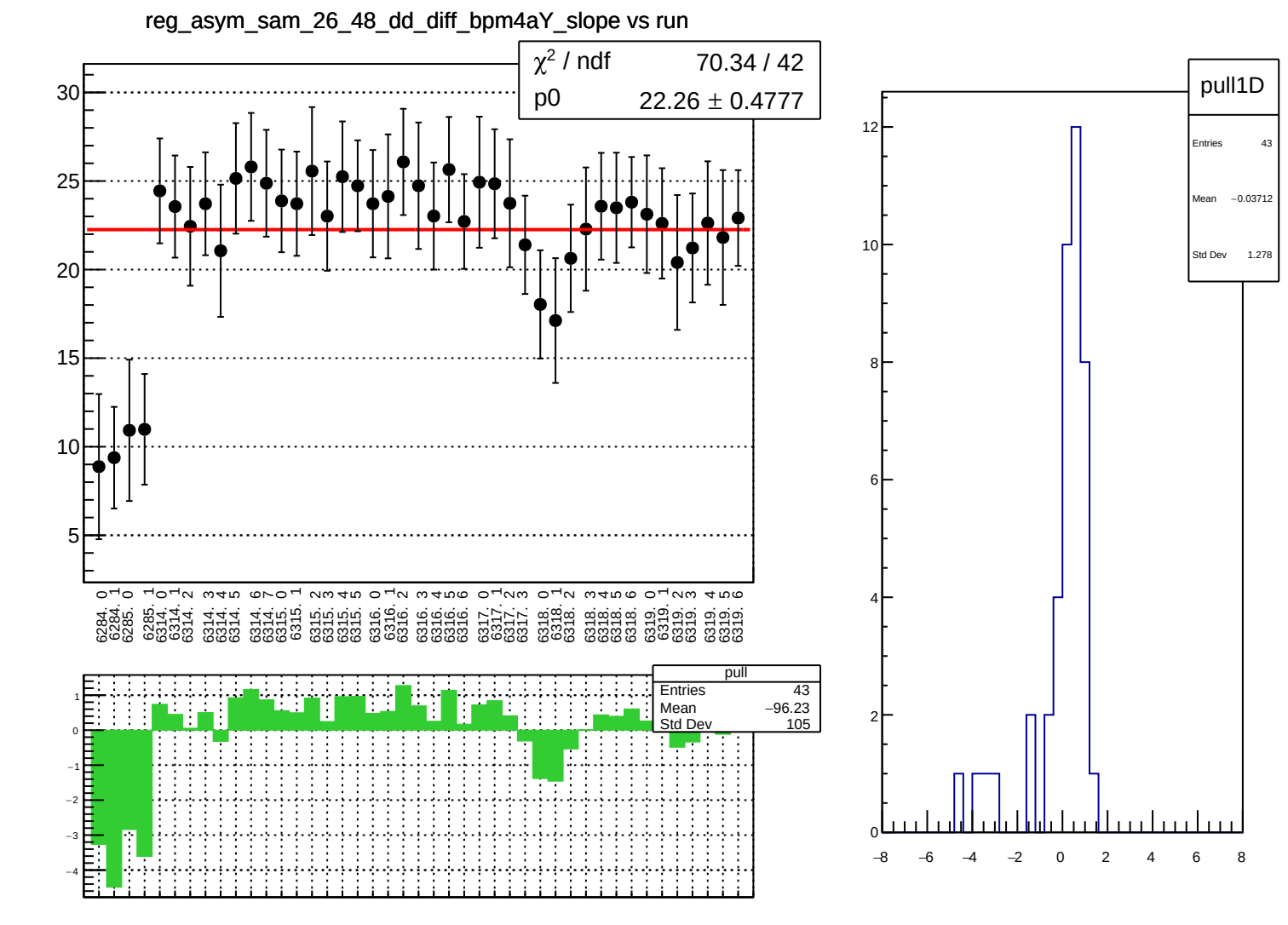

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.559 / 42
p0 −42.39 ± 4.597
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −99.32
Std Dev 117.3
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.00814
Std Dev 0.1902
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

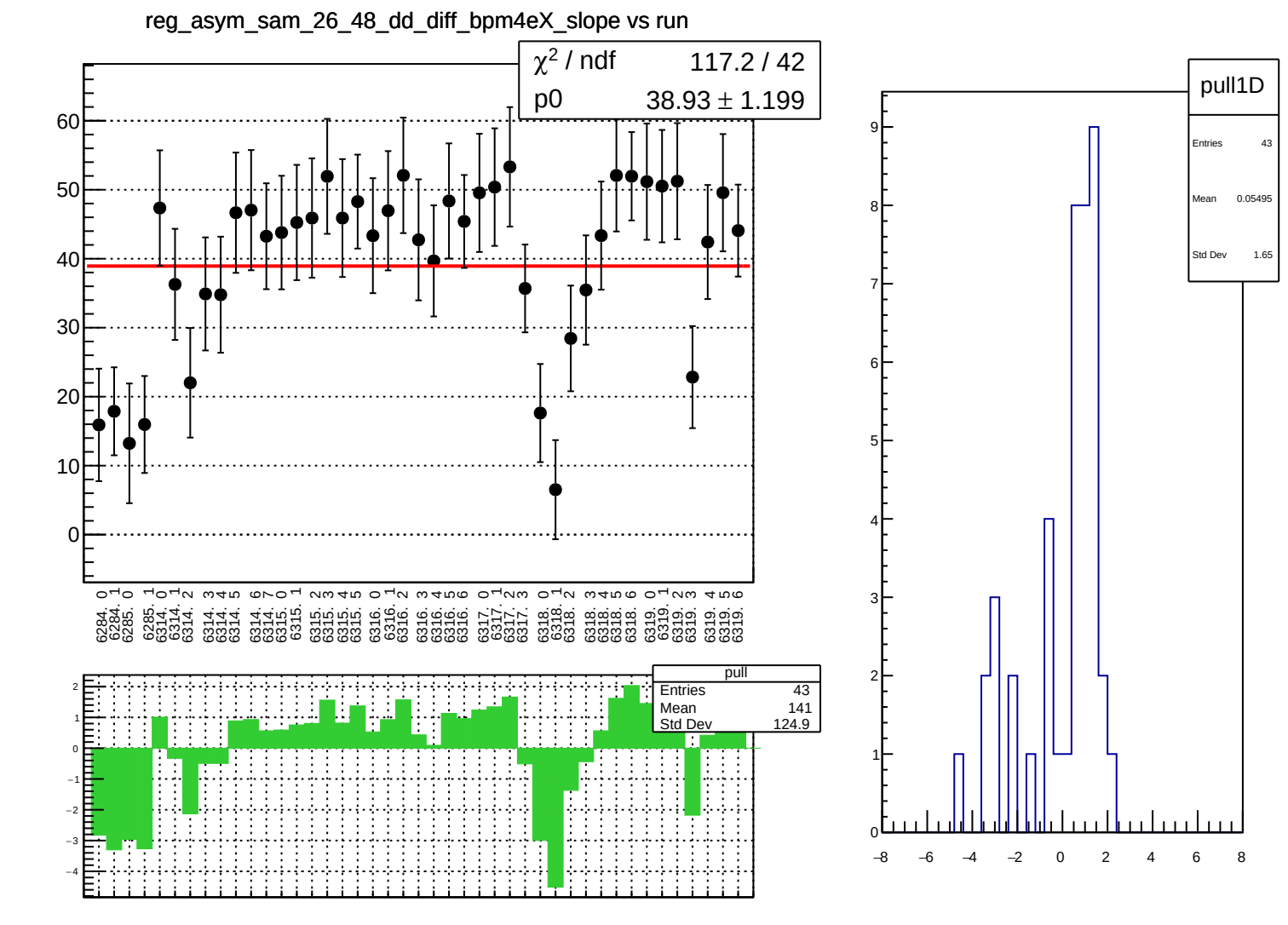

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5437 / 42
p0 −6.268 ± 2.238
20
10
0
−10
−20
−30
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 161.1
Std Dev 127.7
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 43
Mean 0.002509
Std Dev 0.1124
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

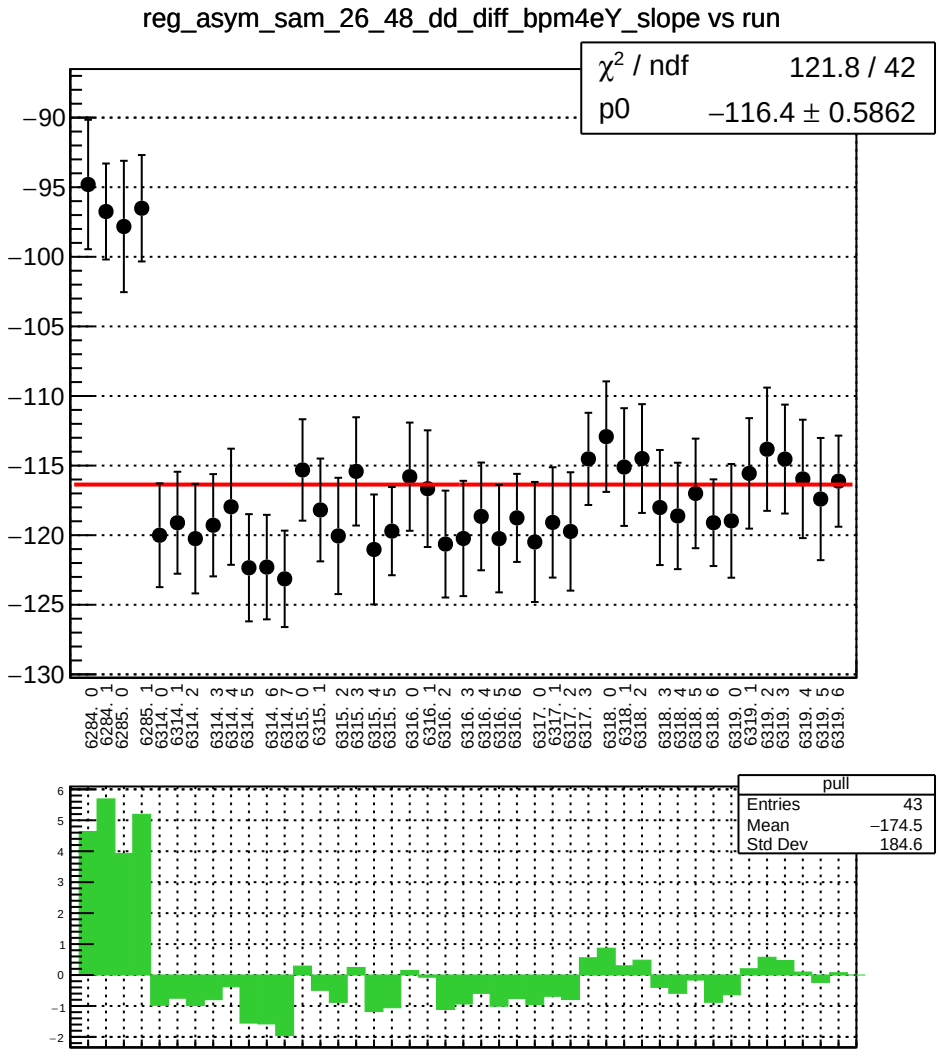

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7548 / 42
p0 −0.5113 ± 0.176
pull
Entries 43
Mean 143.4
Std Dev 122.8

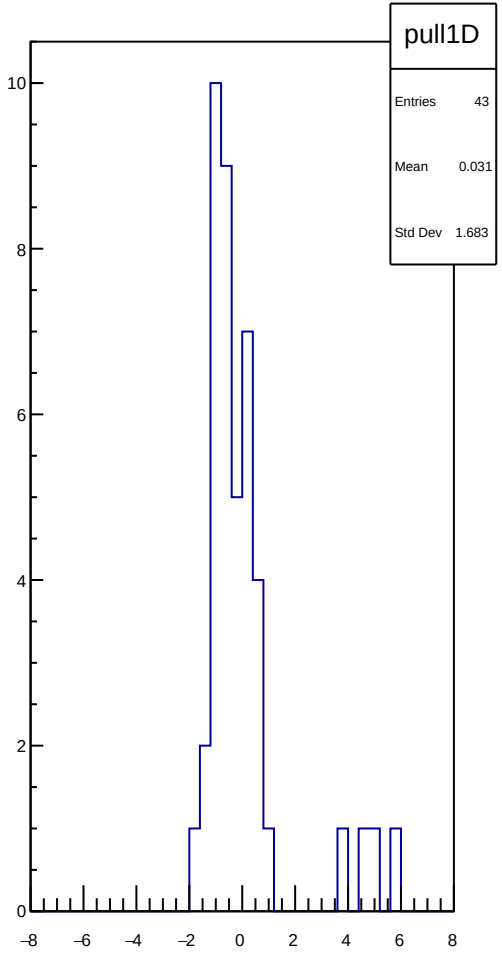

pull1D
Entries 43
Mean 0.002194
Std Dev 0.1325

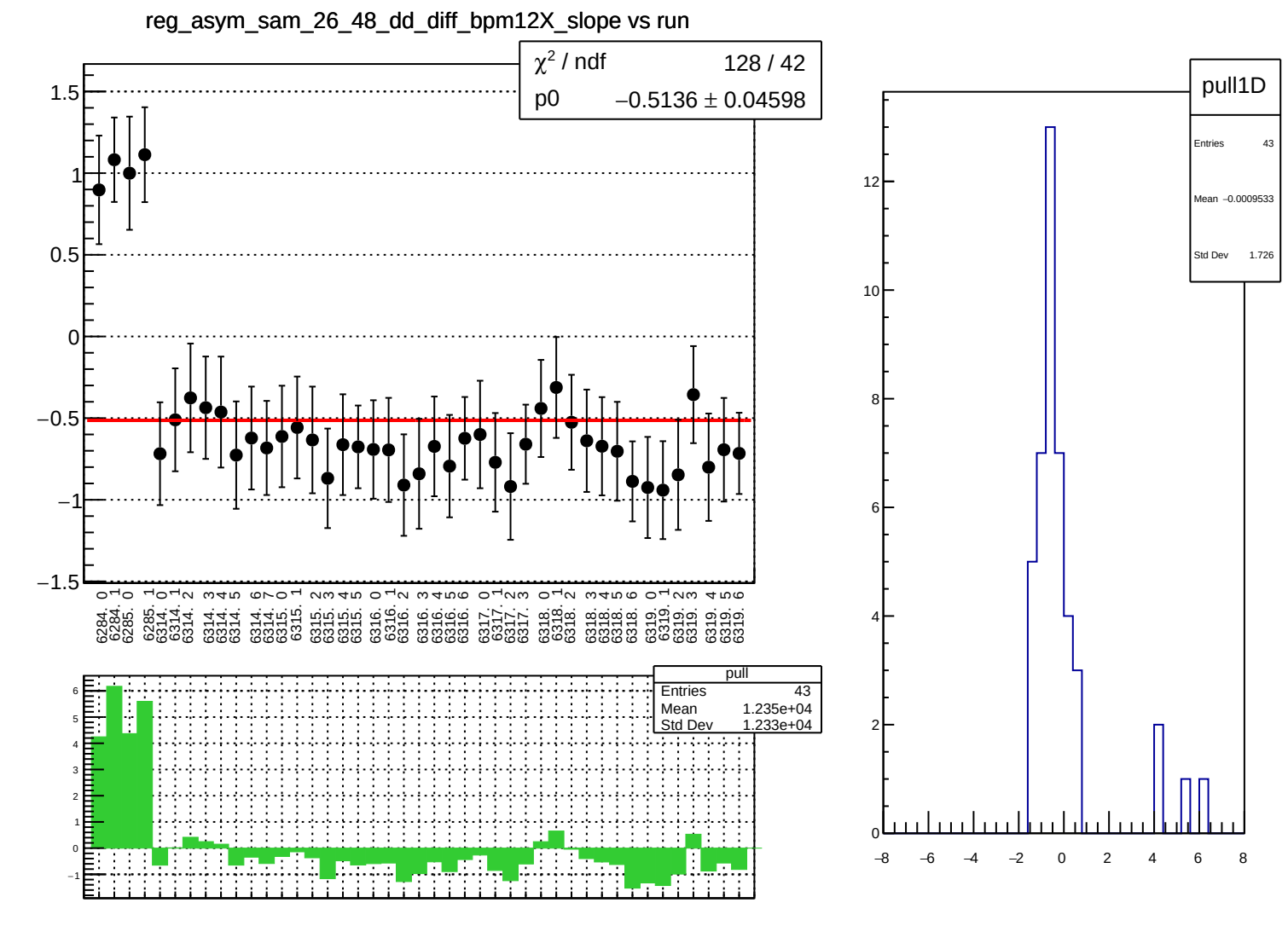

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 119.1 / 42
p0 −18.43 ± 1.112
pull
Entries 43
Mean 122.5
Std Dev 107.4
pull1D
Entries 43
Mean −0.05848
Std Dev 1.663

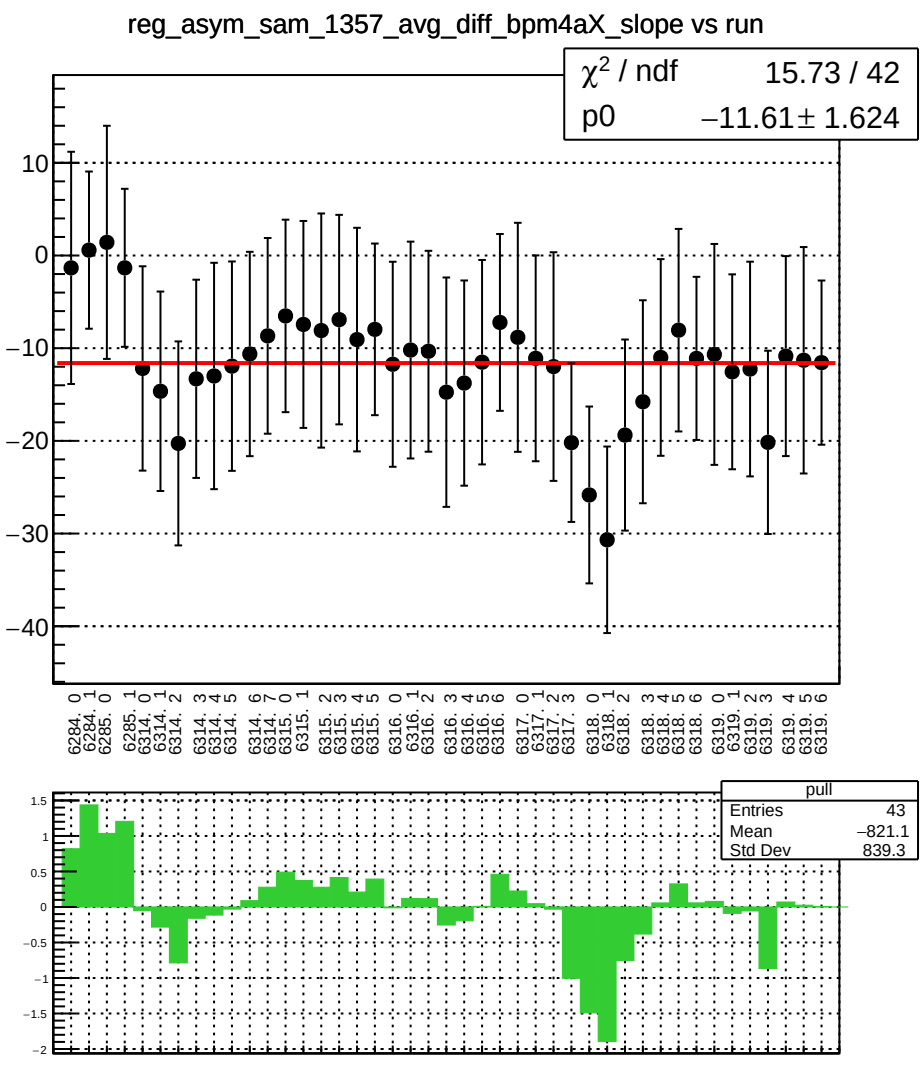

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.34 / 42
p0 22.26 ± 0.4777
pull
Entries 43
Mean −96.23
Std Dev 105
pull1D
Entries 43
Mean −0.03712
Std Dev 1.278

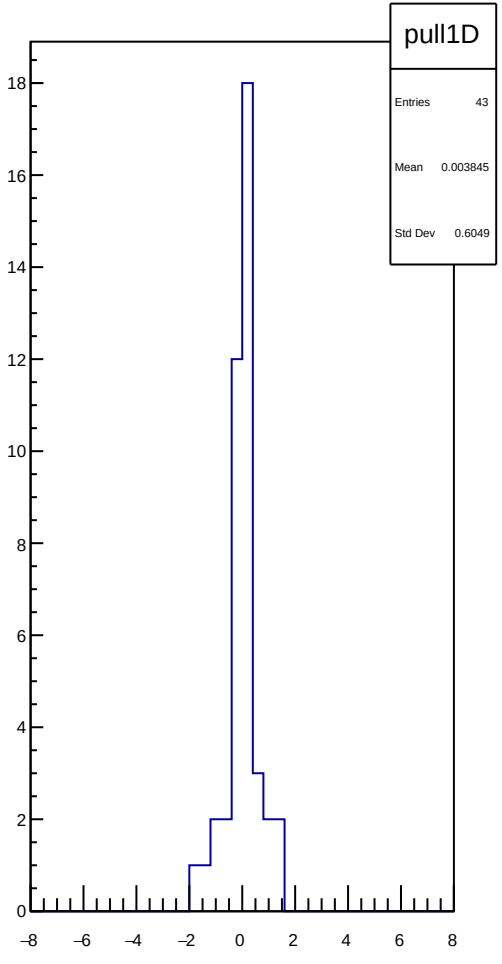

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.2 / 42
p0 38.93 ± 1.199
pull
Entries 43
Mean 141
Std Dev 124.9
pull1D
Entries 43
Mean 0.05495
Std Dev 1.65

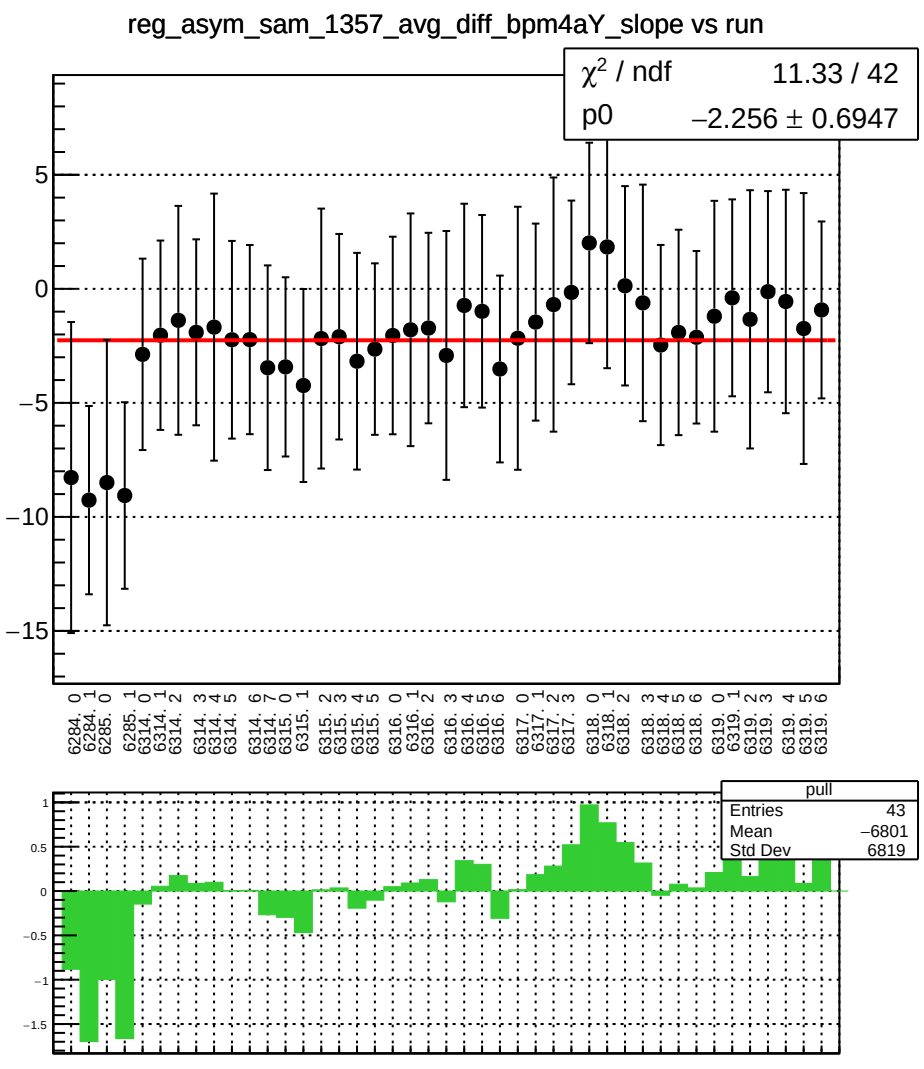

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 121.8 / 42
p0 −116.4 ± 0.5862
pull
Entries 43
Mean −174.5
Std Dev 184.6

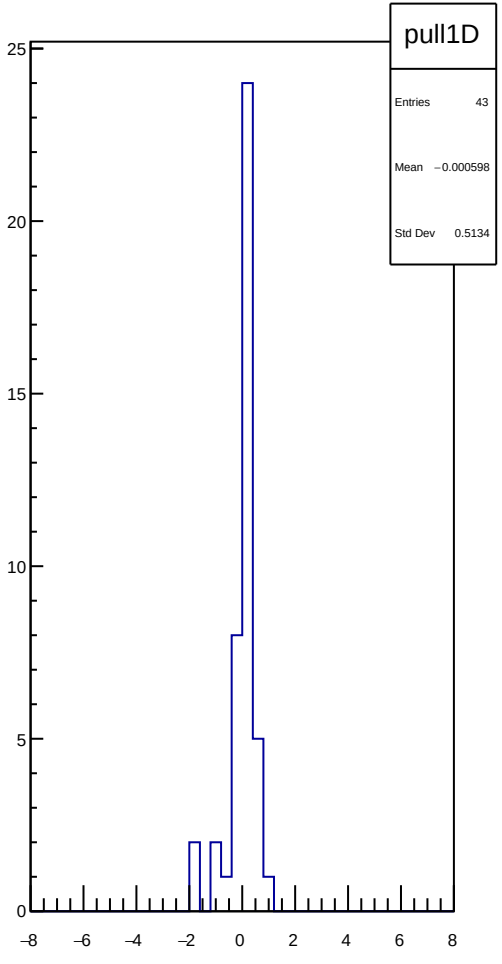

pull1D
Entries 43
Mean 0.031
Std Dev 1.683

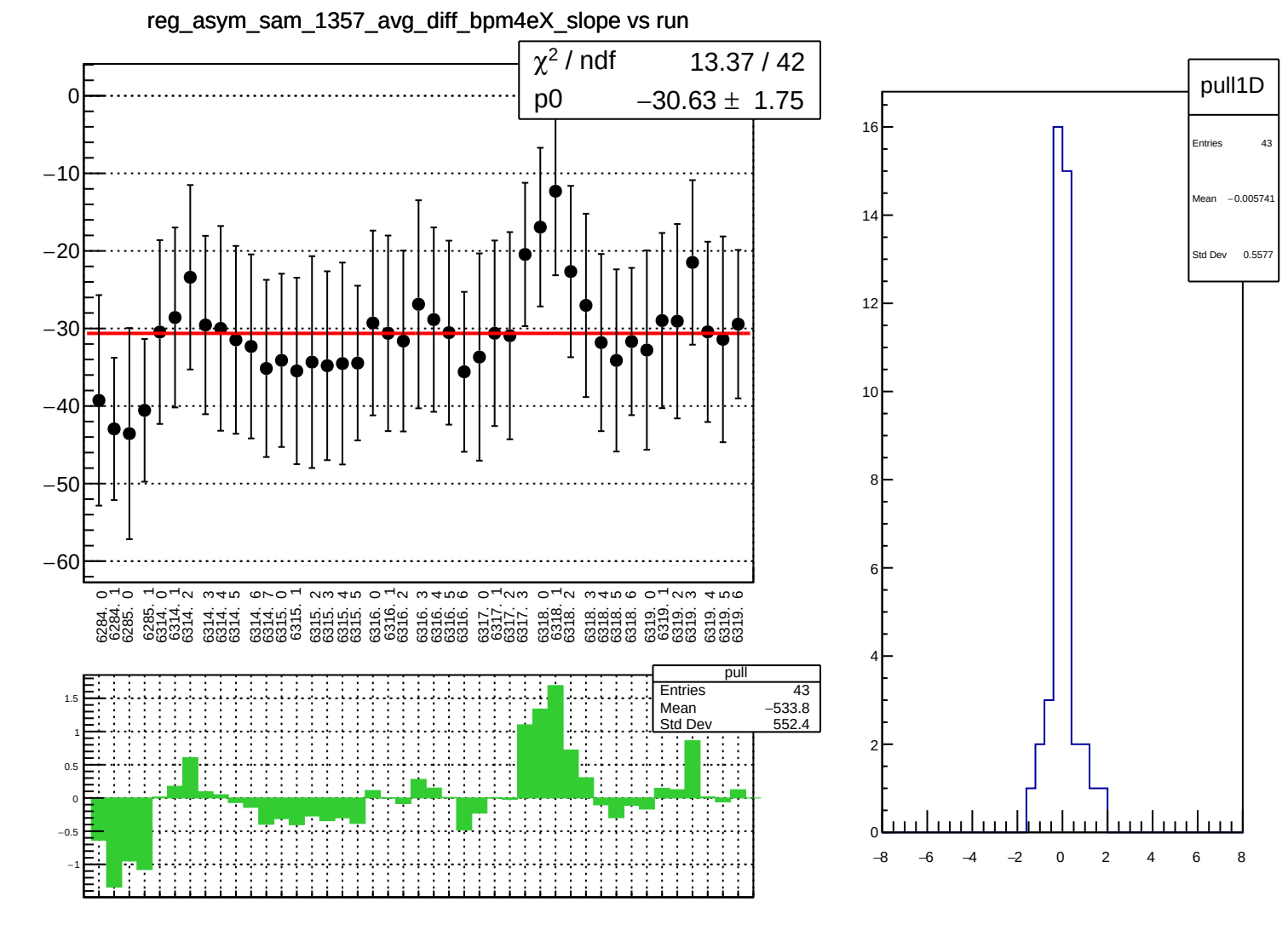

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 128 / 42
p0 −0.5136 ± 0.04598
pull
Entries 43
Mean 1.235e+04
Std Dev 1.233e+04
pull1D
Entries 43
Mean −0.0009533
Std Dev 1.726

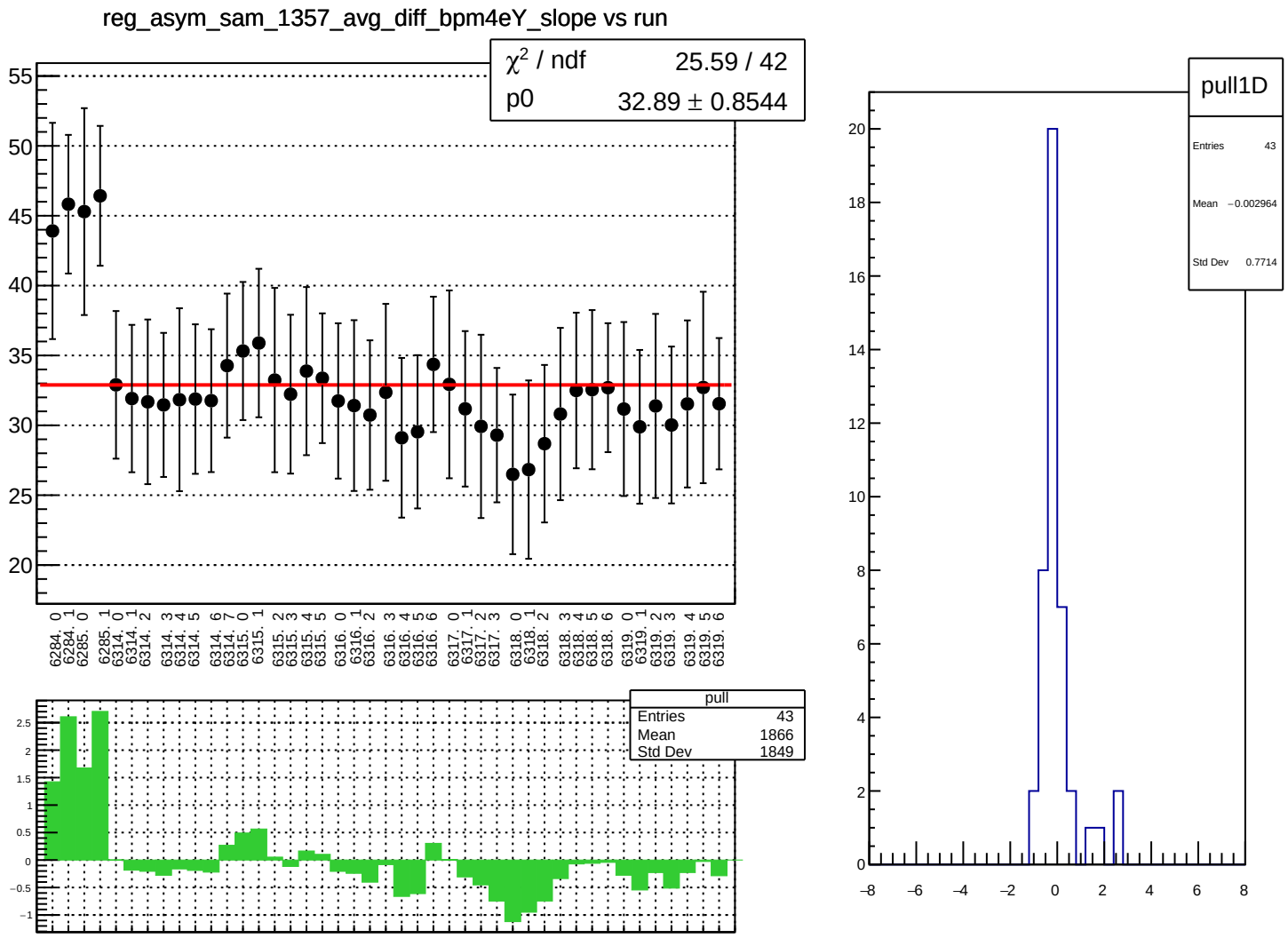

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 15.73 / 42
p0 −11.61± 1.624
pull
Entries 43
Mean −821.1
Std Dev 839.3

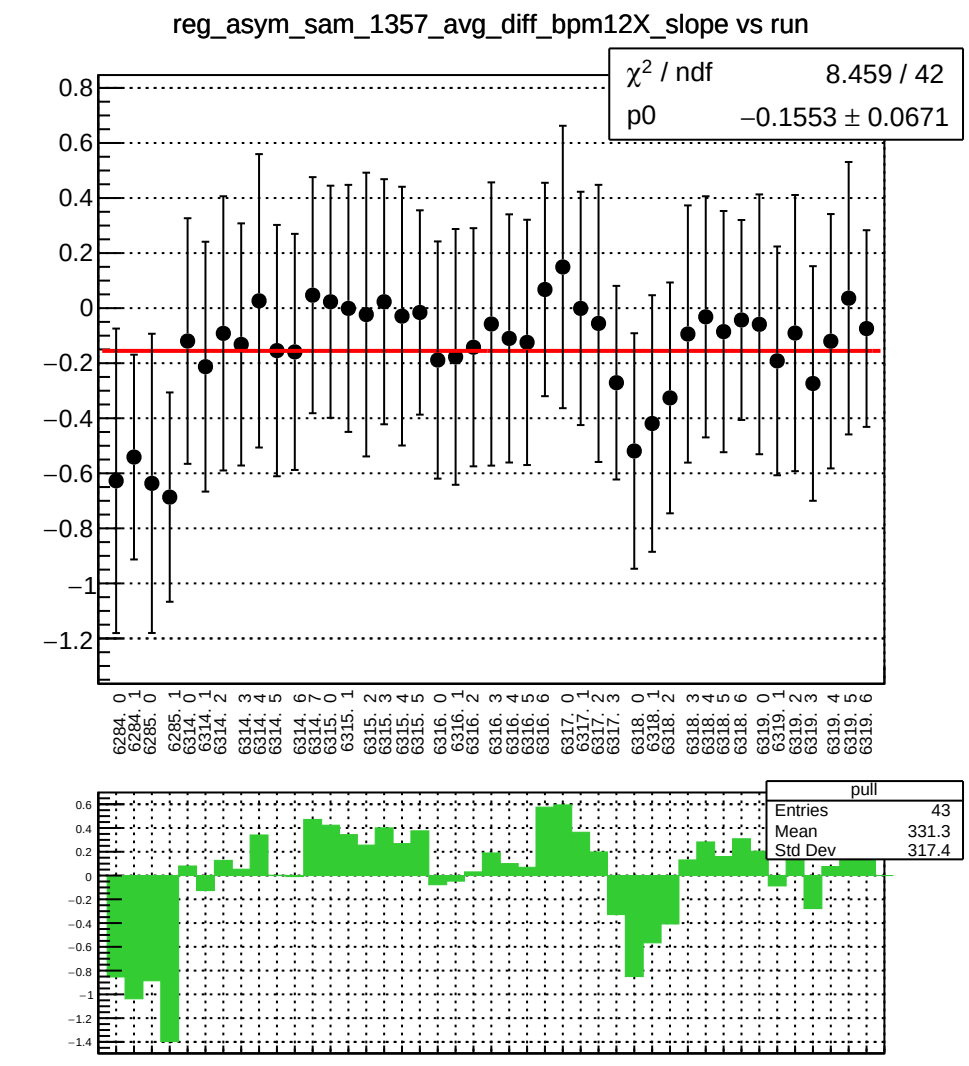

pull1D
Entries 43
Mean 0.003845
Std Dev 0.6049

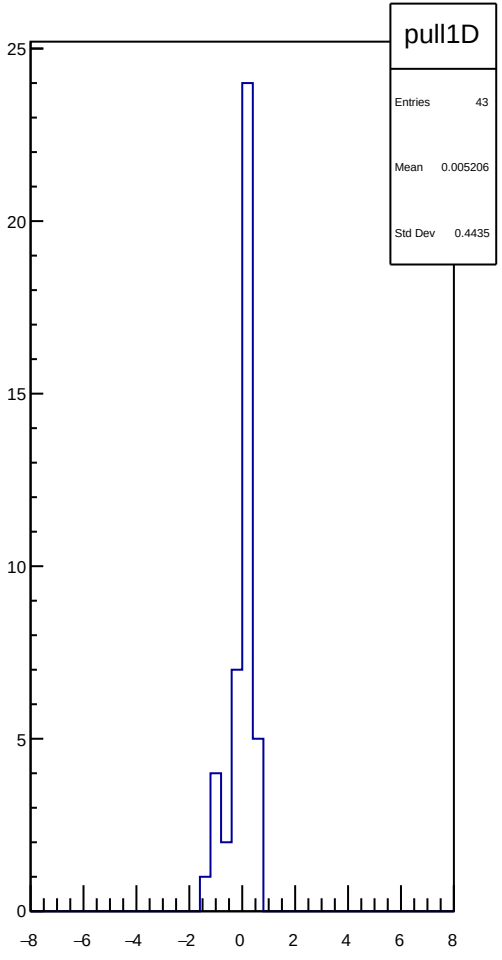

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.33 / 42
p0 −2.256 ± 0.6947
pull
Entries 43
Mean −6801
Std Dev 6819

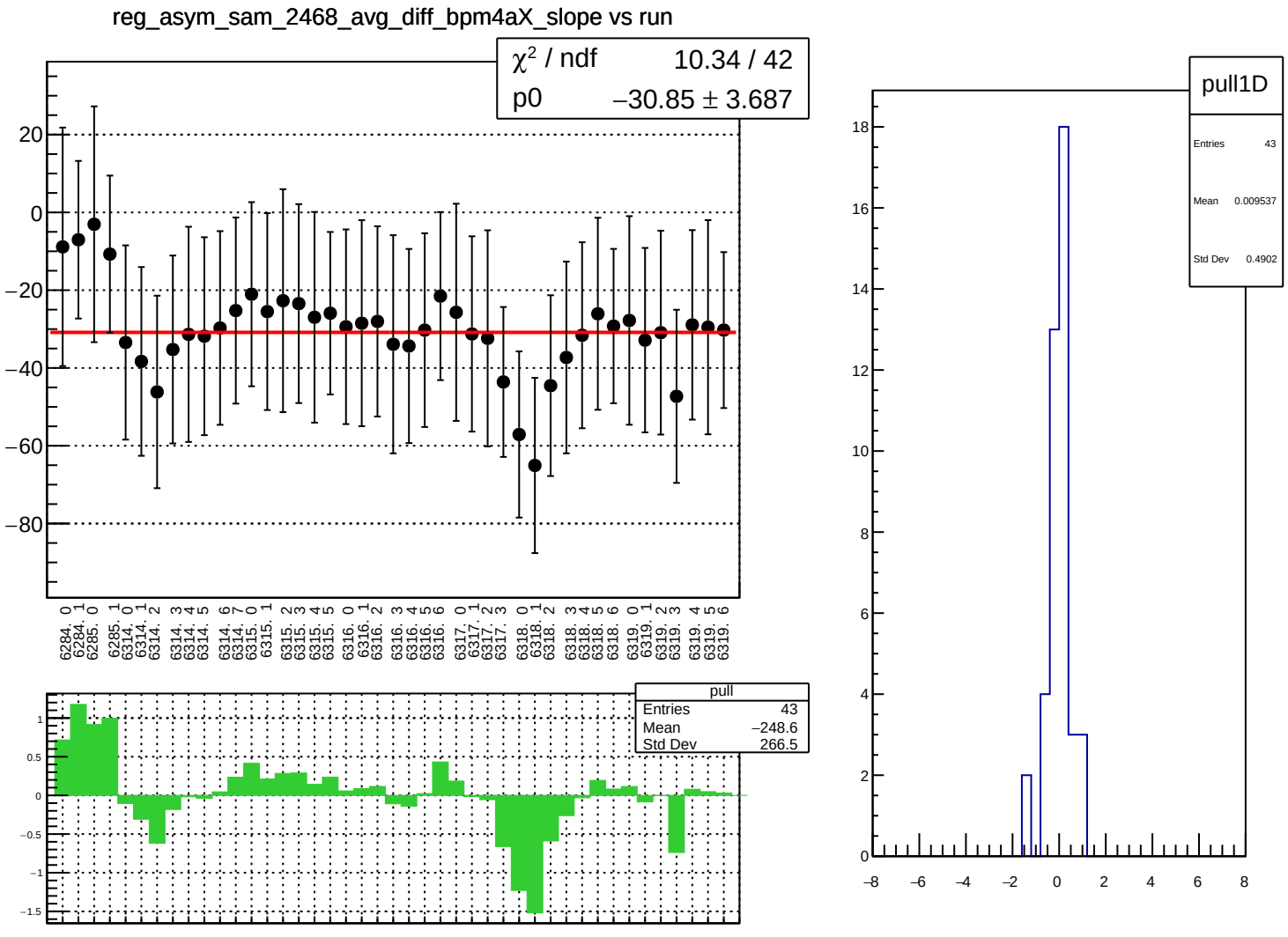

pull1D
Entries 43
Mean −0.000598
Std Dev 0.5134

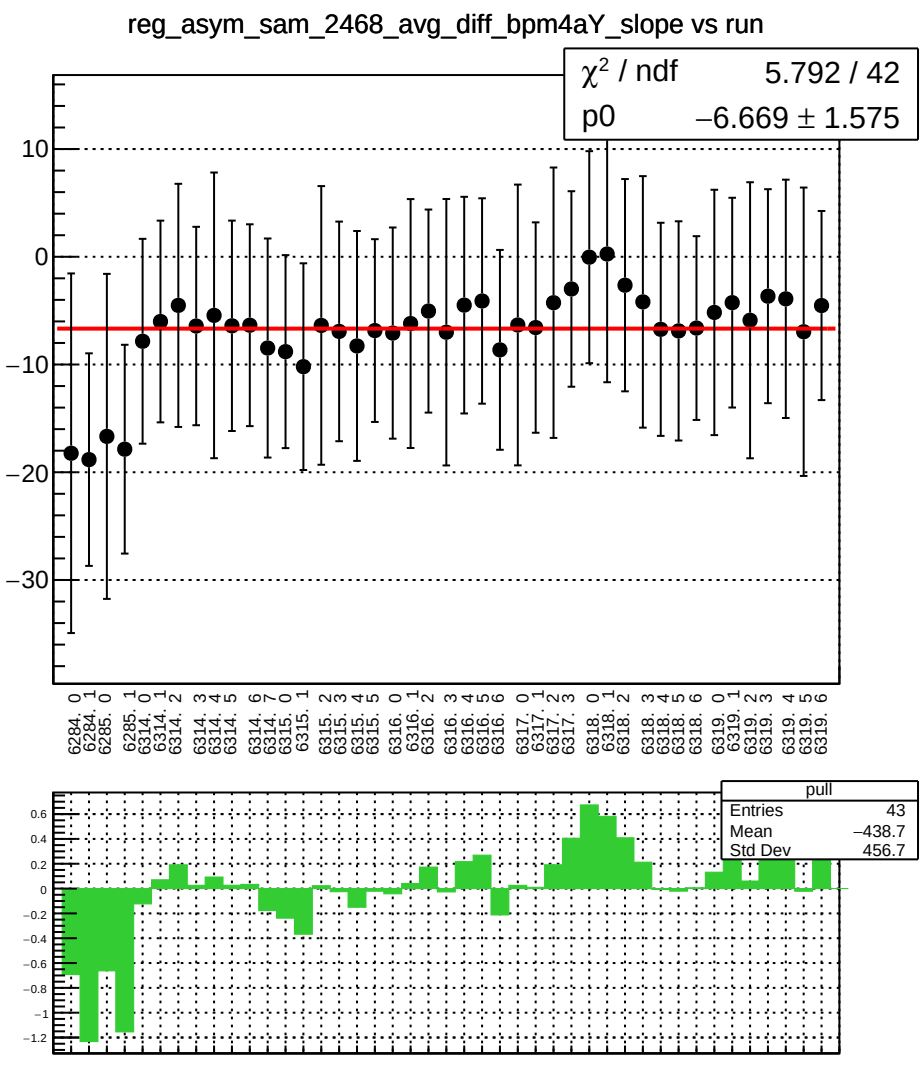

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.37 / 42
p0 −30.63 ± 1.75
pull
Entries 43
Mean −533.8
Std Dev 552.4
pull1D
Entries 43
Mean −0.005741
Std Dev 0.5577

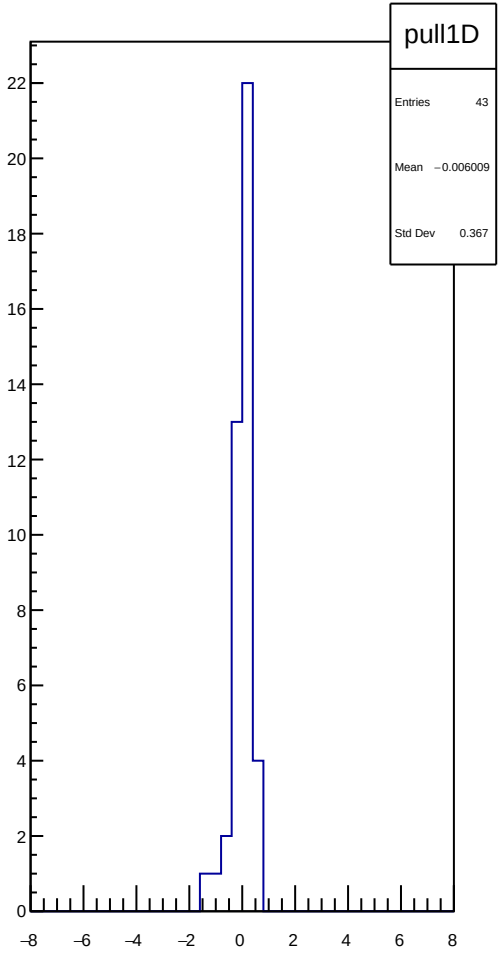

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.59 / 42
p0 32.89 ± 0.8544
pull
Entries 43
Mean 1866
Std Dev 1849
pull1D
Entries 43
Mean −0.002964
Std Dev 0.7714

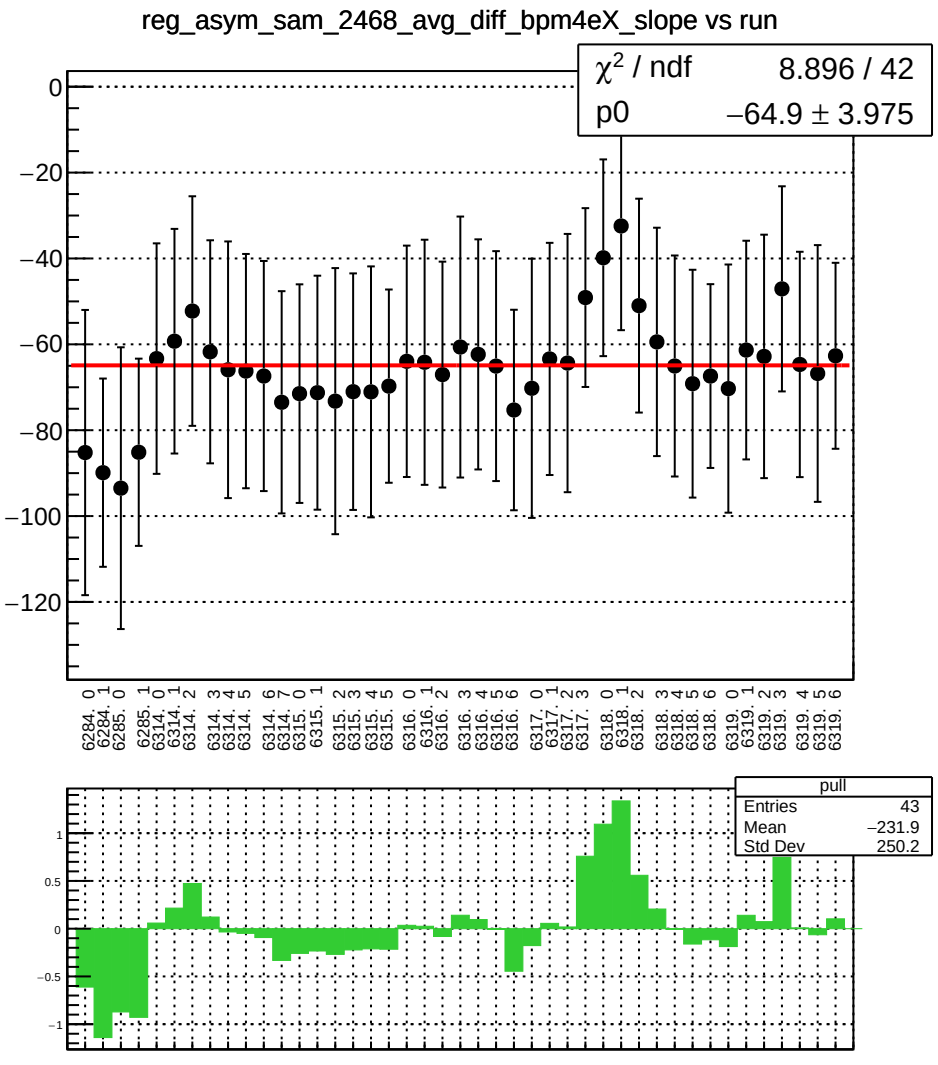

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 8.459 / 42
p0 −0.1553 ± 0.0671
pull
Entries 43
Mean 331.3
Std Dev 317.4

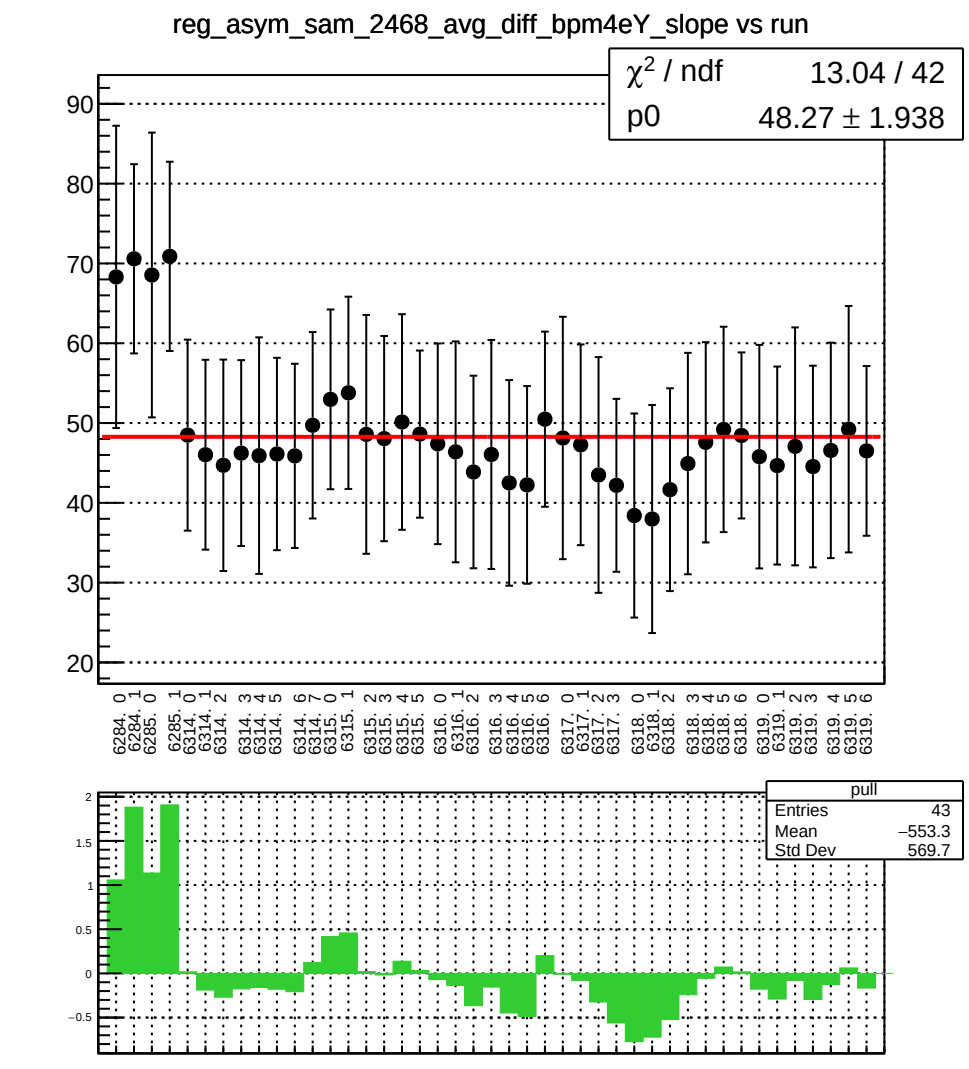

pull1D
Entries 43
Mean 0.005206
Std Dev 0.4435

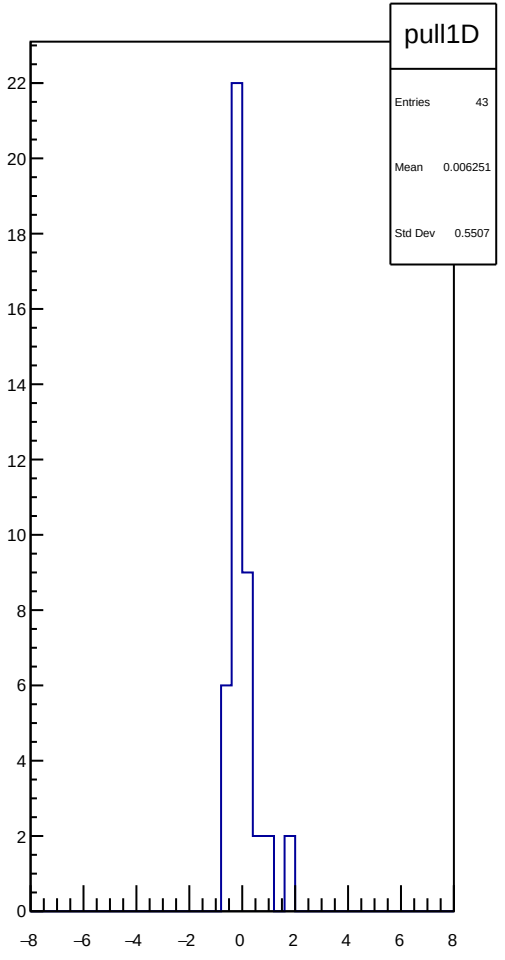

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.34 / 42
p0 −30.85 ± 3.687
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −248.6
Std Dev 266.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.009537
Std Dev 0.4902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

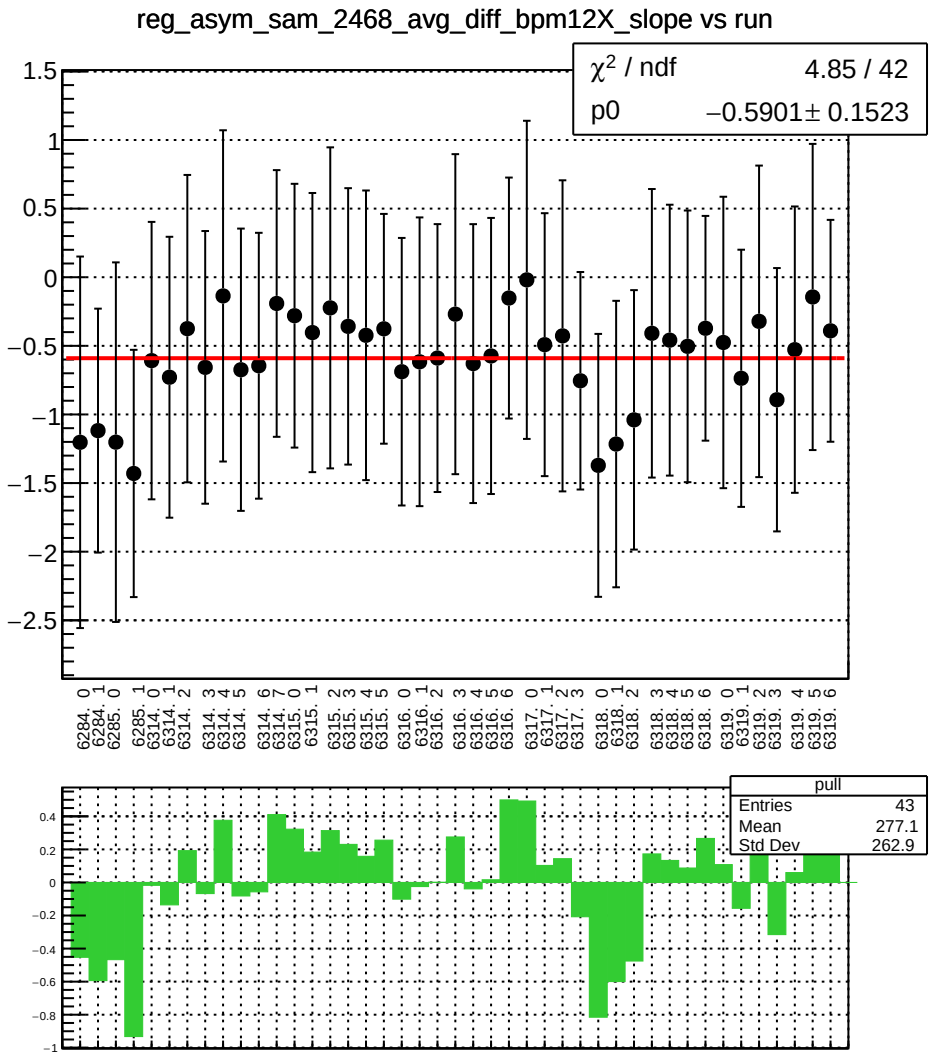

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.792 / 42
p0 −6.669 ± 1.575
10
0
−10
−20
−30
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −438.7
Std Dev 456.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

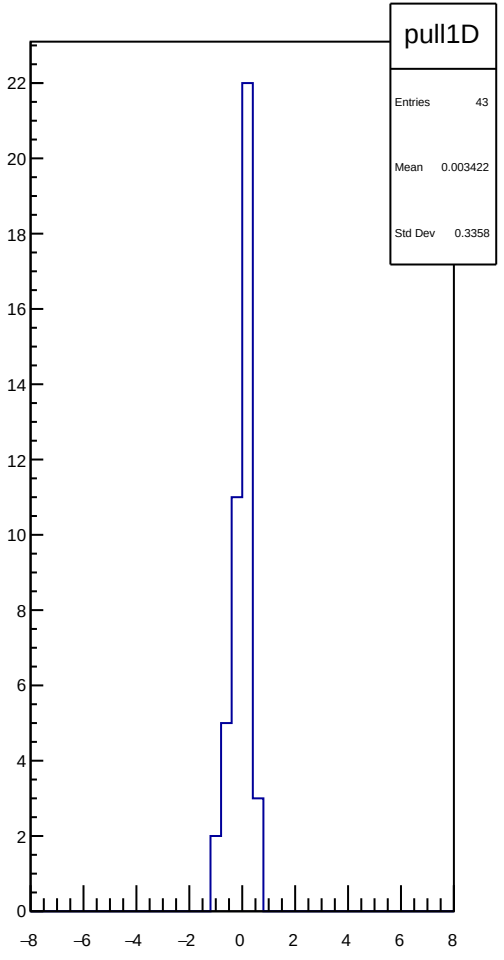

pull1D
Entries 43
Mean −0.006009
Std Dev 0.367
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

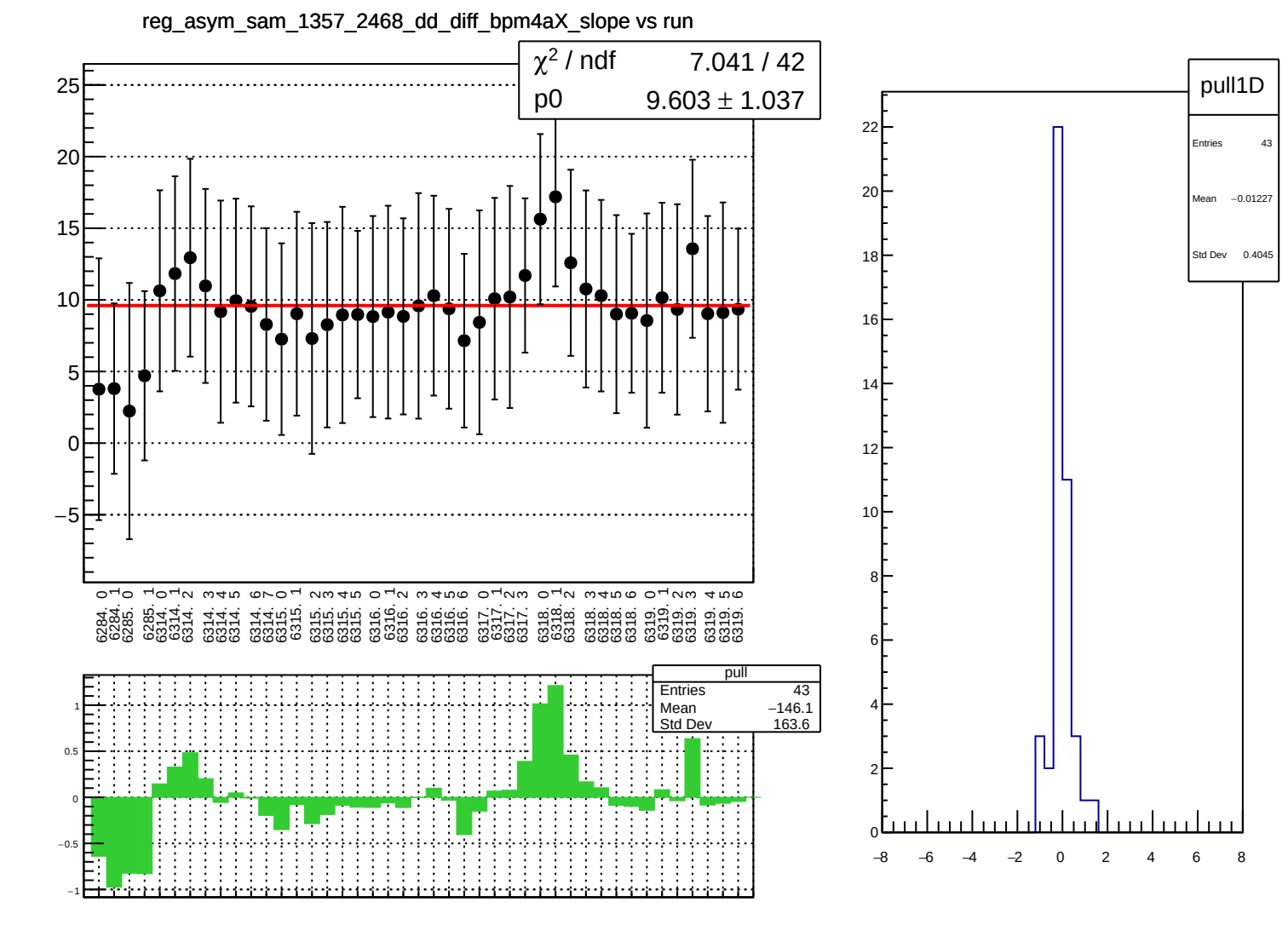

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.896 / 42
p0 −64.9 ± 3.975
0
−20
−40
−60
−80
−100
−120
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −231.9
Std Dev 250.2
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01047
Std Dev 0.4547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

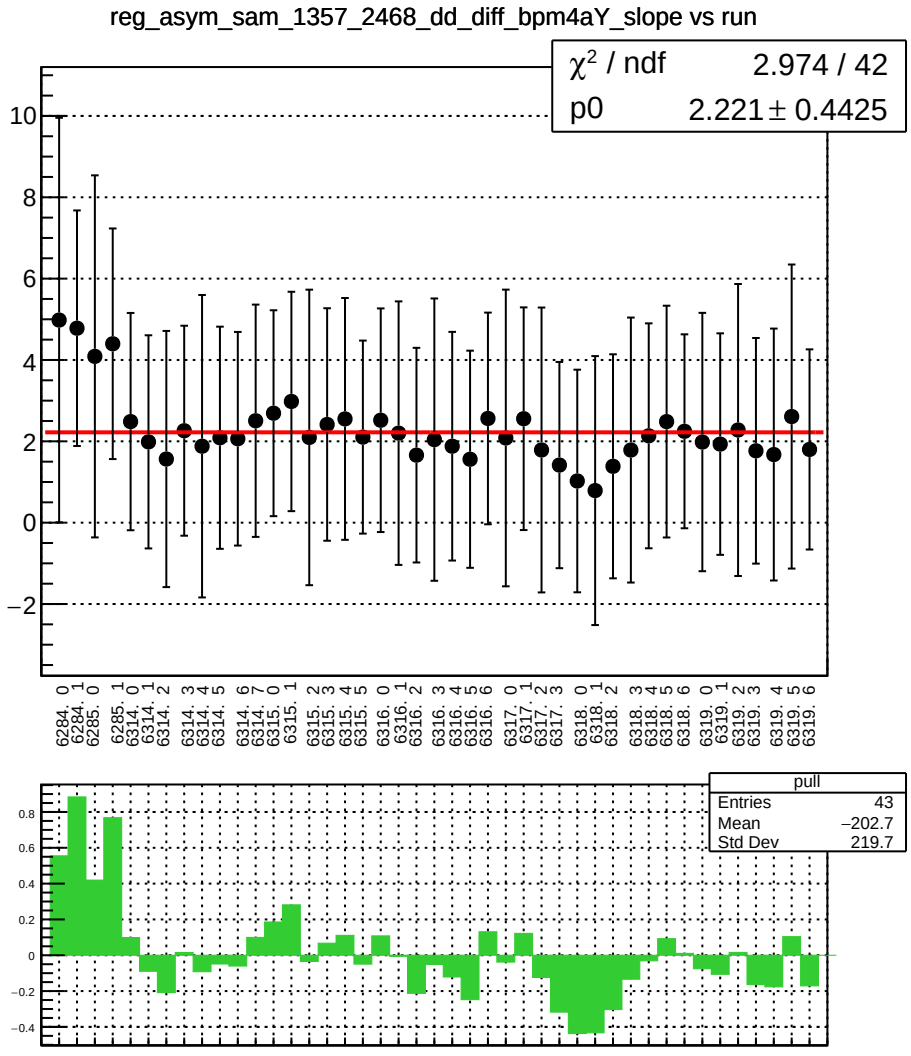

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.04 / 42
p0 48.27 ± 1.938
pull
Entries 43
Mean −553.3
Std Dev 569.7

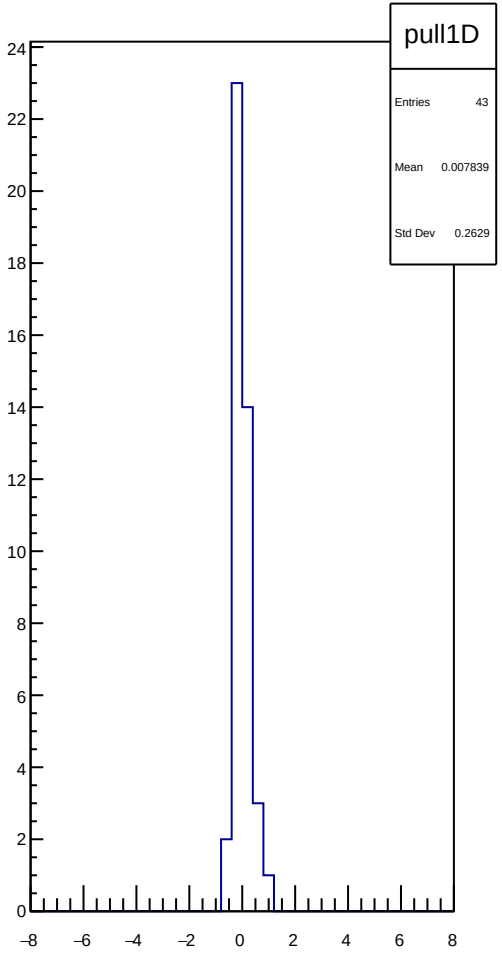

pull1D
Entries 43
Mean 0.006251
Std Dev 0.5507

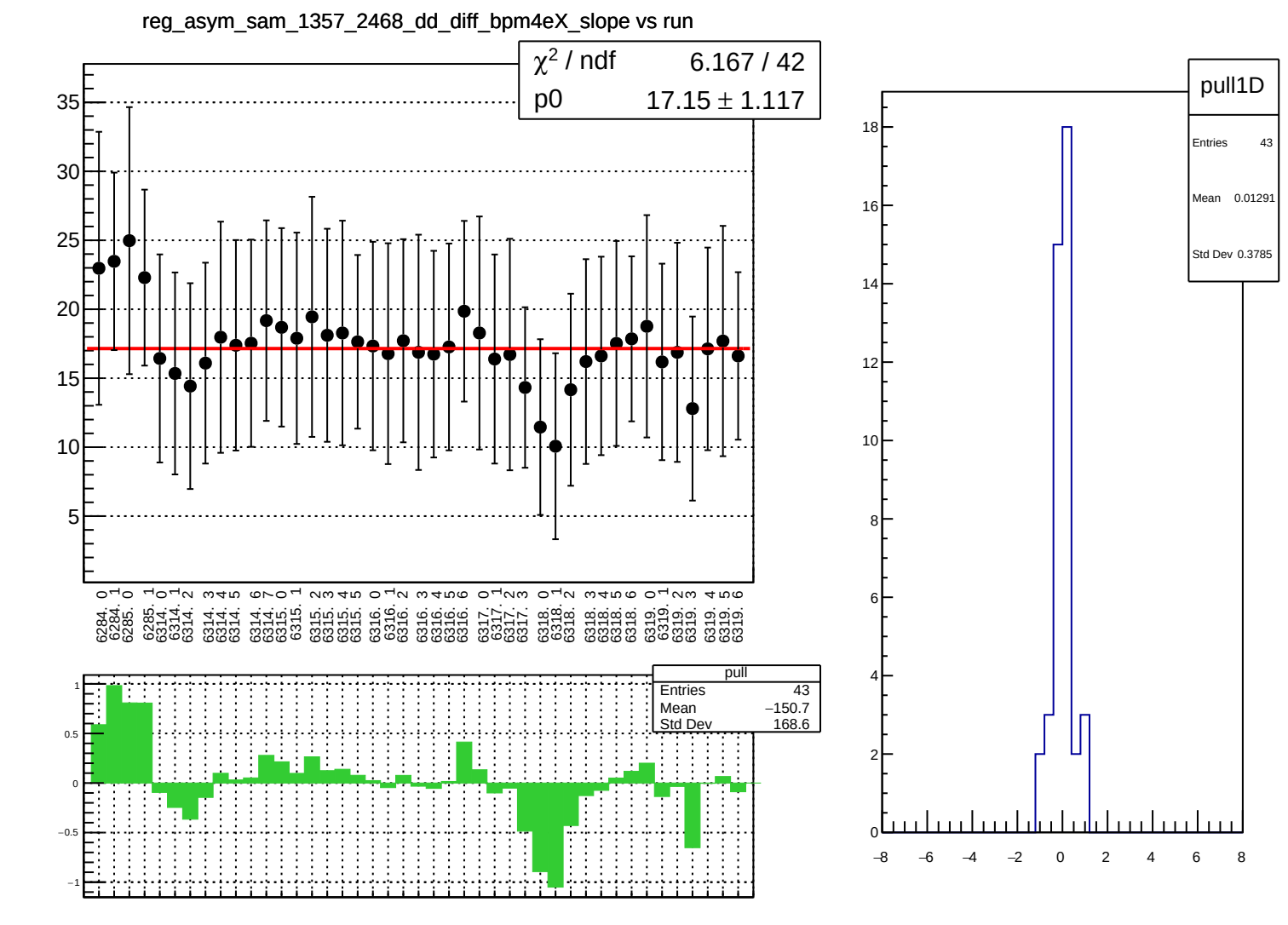

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 4.85 / 42
p0 −0.5901± 0.1523
pull
Entries 43
Mean 277.1
Std Dev 262.9

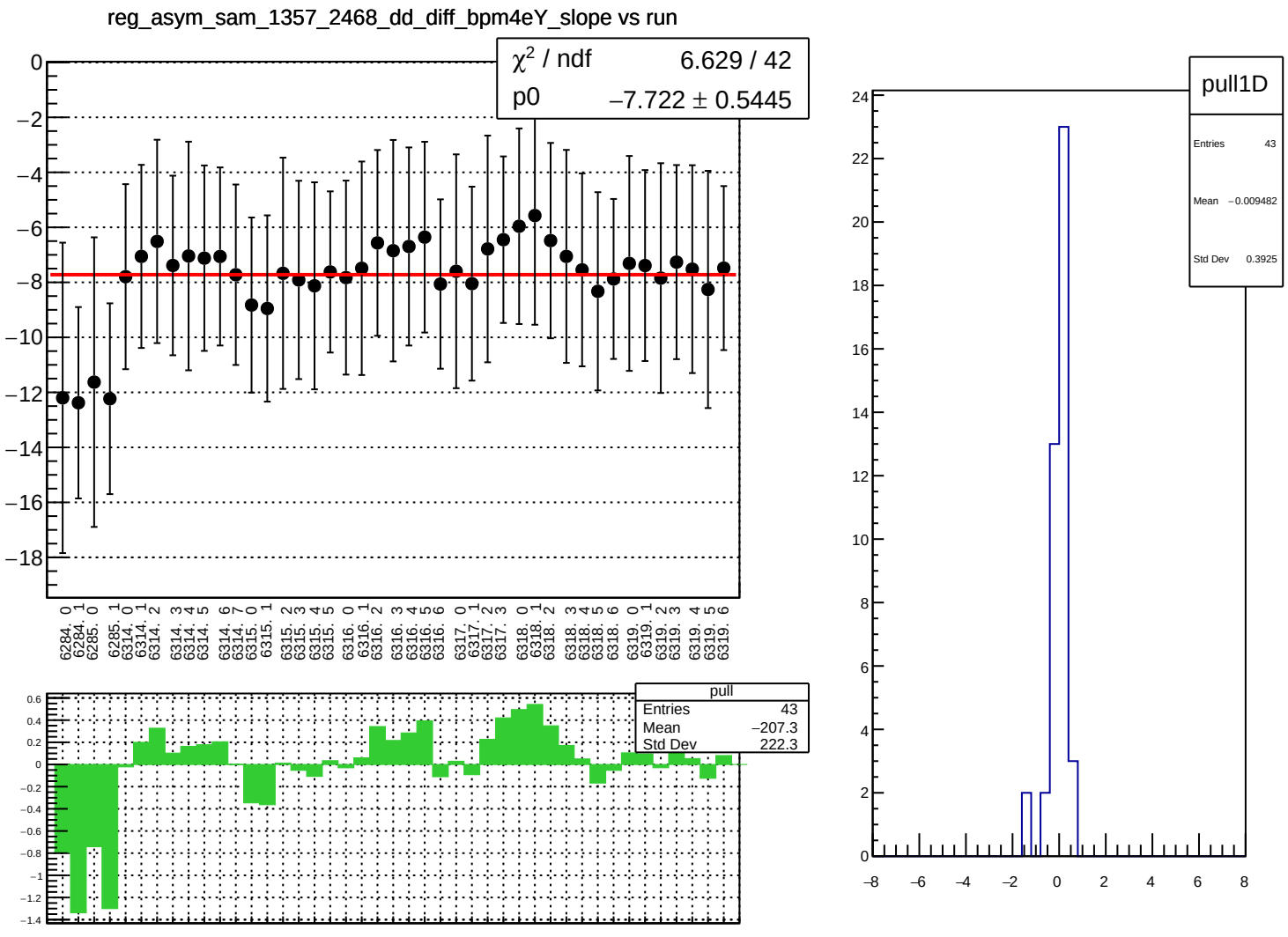

pull1D
Entries 43
Mean 0.003422
Std Dev 0.3358

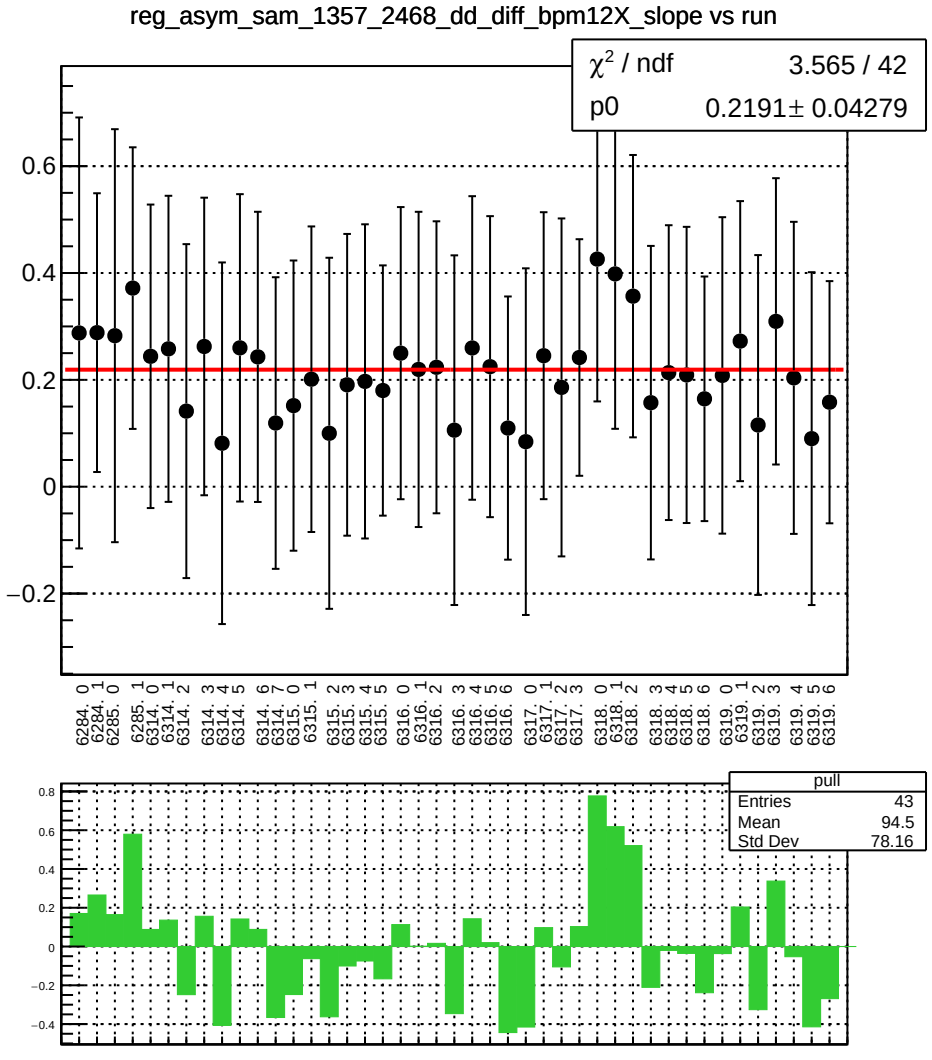

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.041 / 42
p0 9.603 ± 1.037
pull
Entries 43
Mean −146.1
Std Dev 163.6
pull1D
Entries 43
Mean −0.01227
Std Dev 0.4045

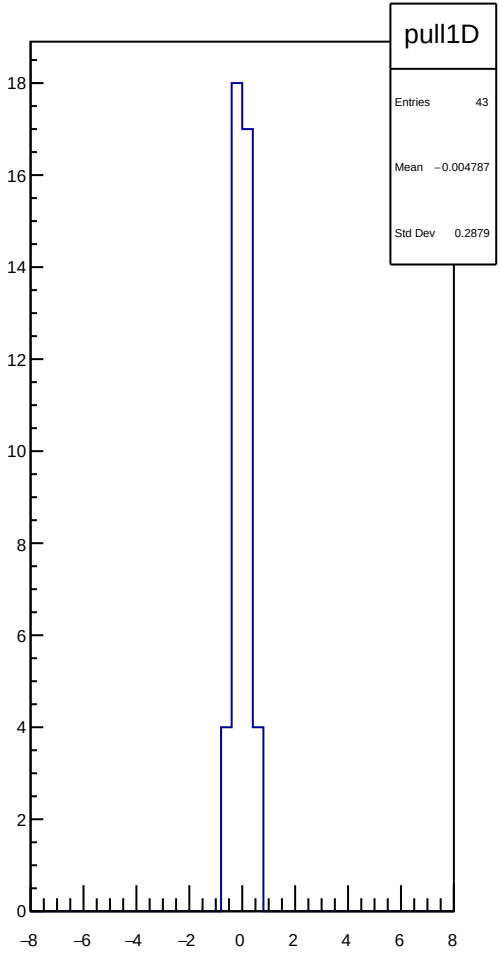

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.974 / 42
p0 2.221 ± 0.4425
pull
Entries 43
Mean −202.7
Std Dev 219.7

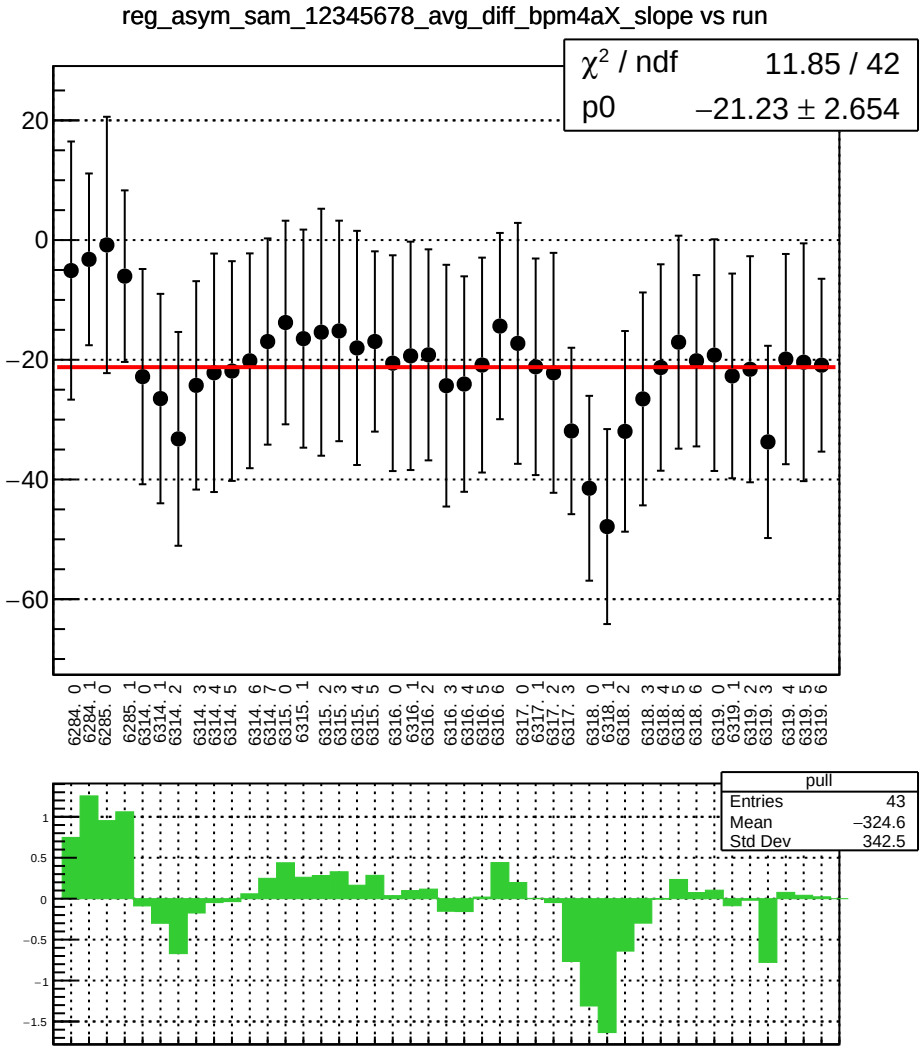

pull1D
Entries 43
Mean 0.007839
Std Dev 0.2629

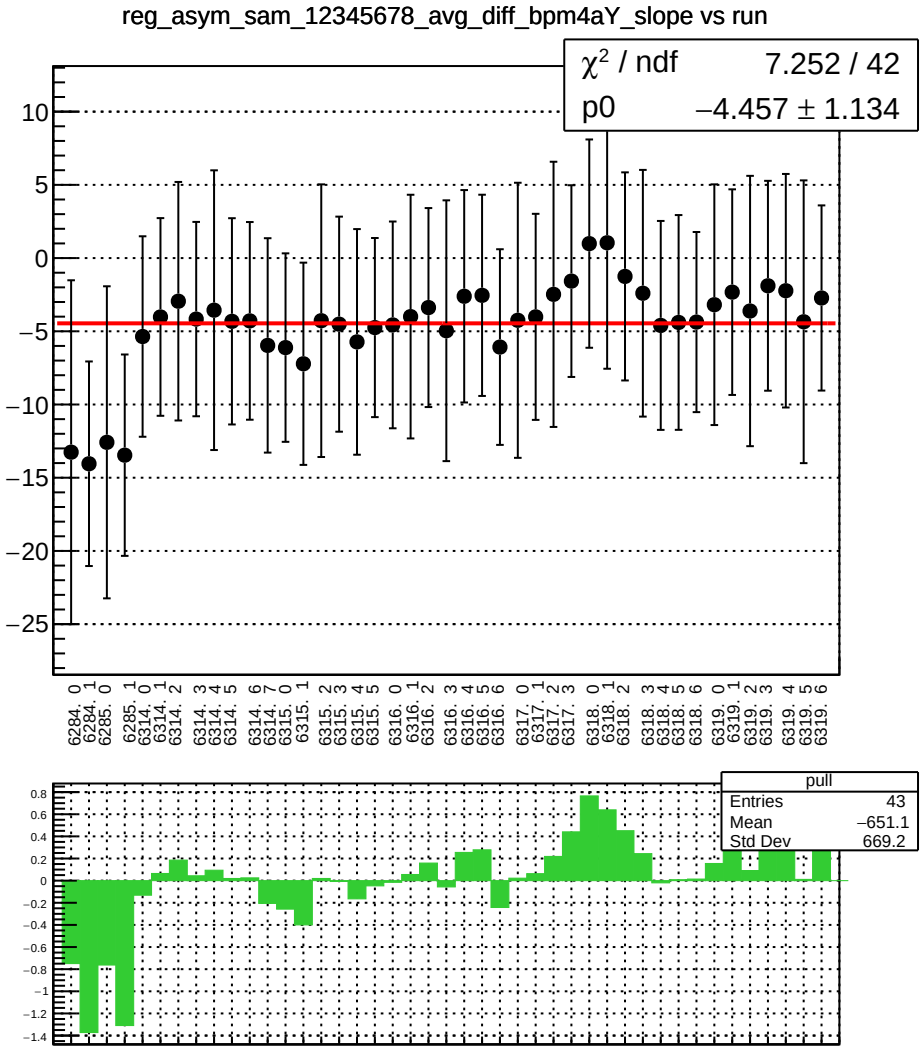

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.167 / 42
p0 17.15 ± 1.117
pull
Entries 43
Mean −150.7
Std Dev 168.6
pull1D
Entries 43
Mean 0.01291
Std Dev 0.3785

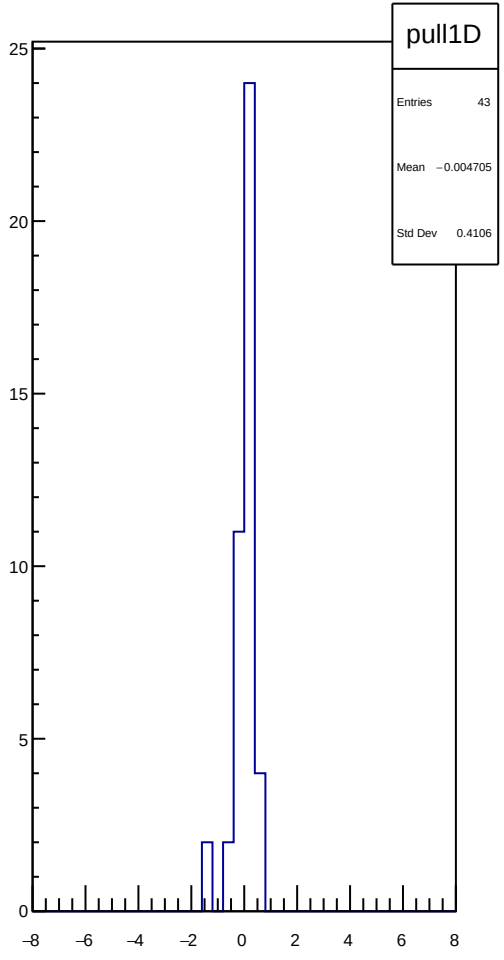

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.629 / 42
p0 −7.722 ± 0.5445
pull
Entries 43
Mean −207.3
Std Dev 222.3
pull1D
Entries 43
Mean −0.009482
Std Dev 0.3925

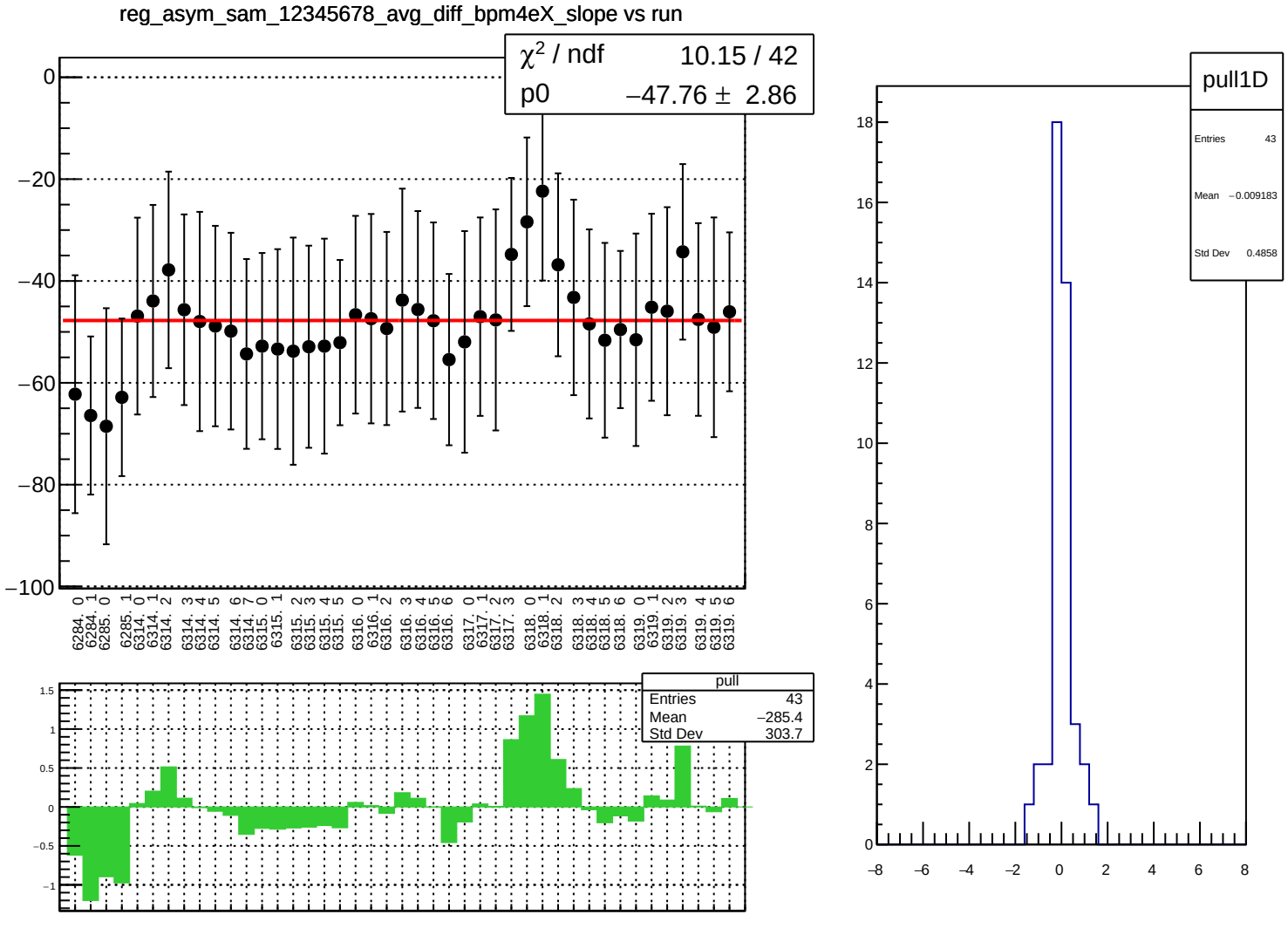

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.565 / 42
p0 0.2191± 0.04279
pull
Entries 43
Mean 94.5
Std Dev 78.16

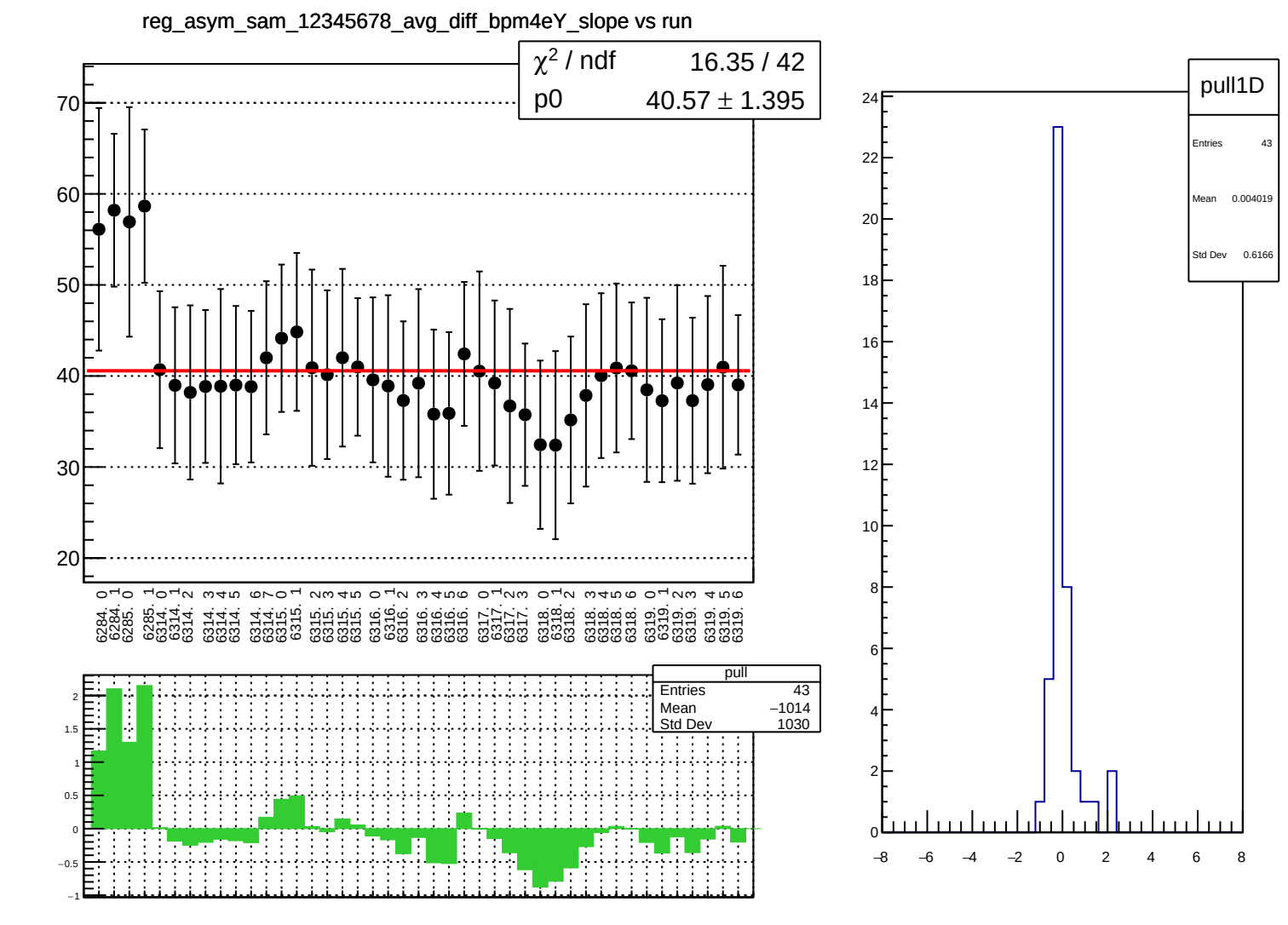

pull1D
Entries 43
Mean −0.004787
Std Dev 0.2879

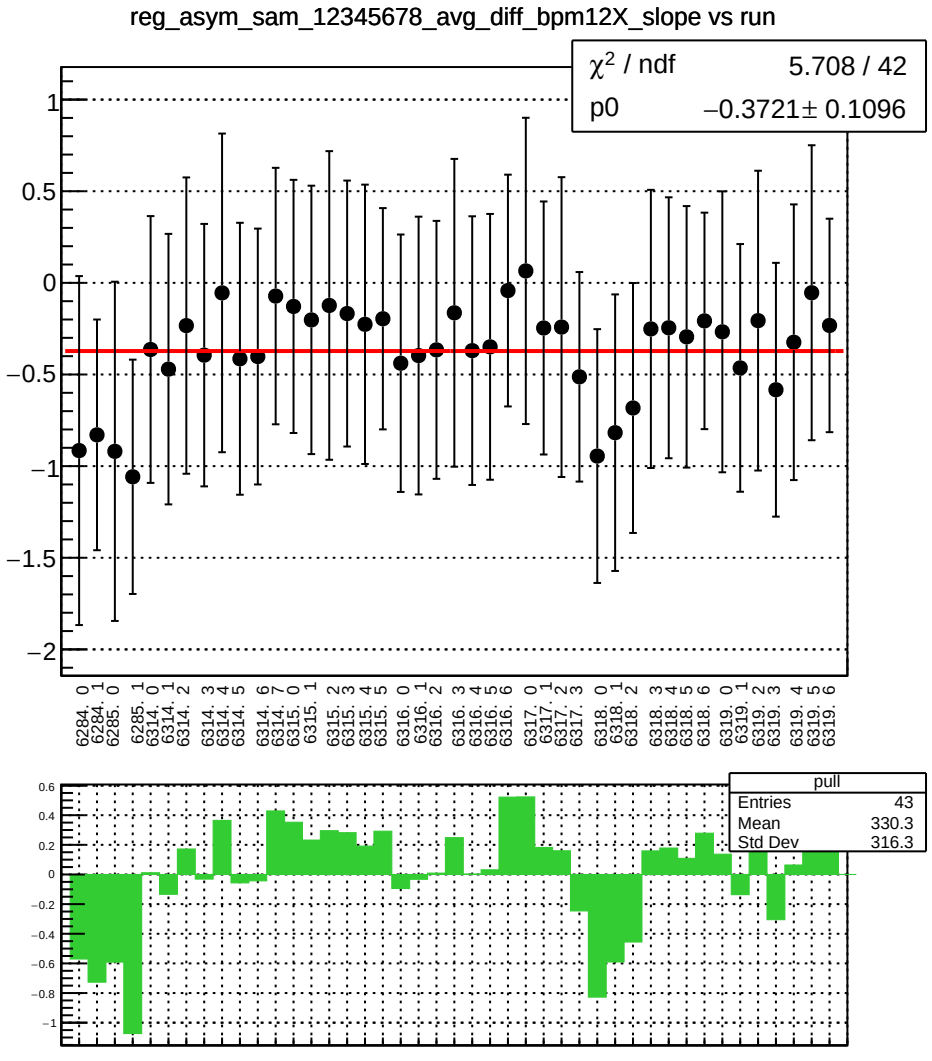

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.85 / 42
p0 −21.23 ± 2.654
20
0
−20
−40
−60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −324.6
Std Dev 342.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.008032
Std Dev 0.5249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

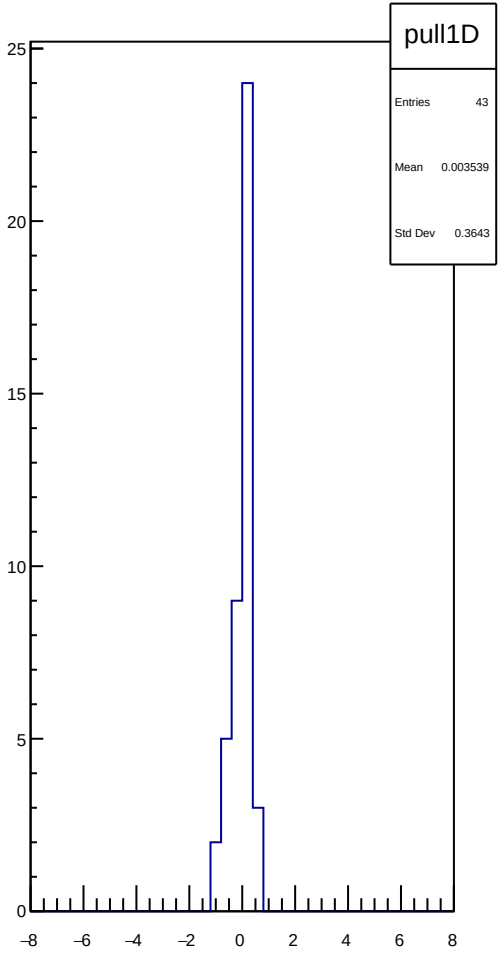

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.252 / 42
p0 −4.457 ± 1.134
10
5
0
−5
−10
−15
−20
−25
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −651.1
Std Dev 669.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

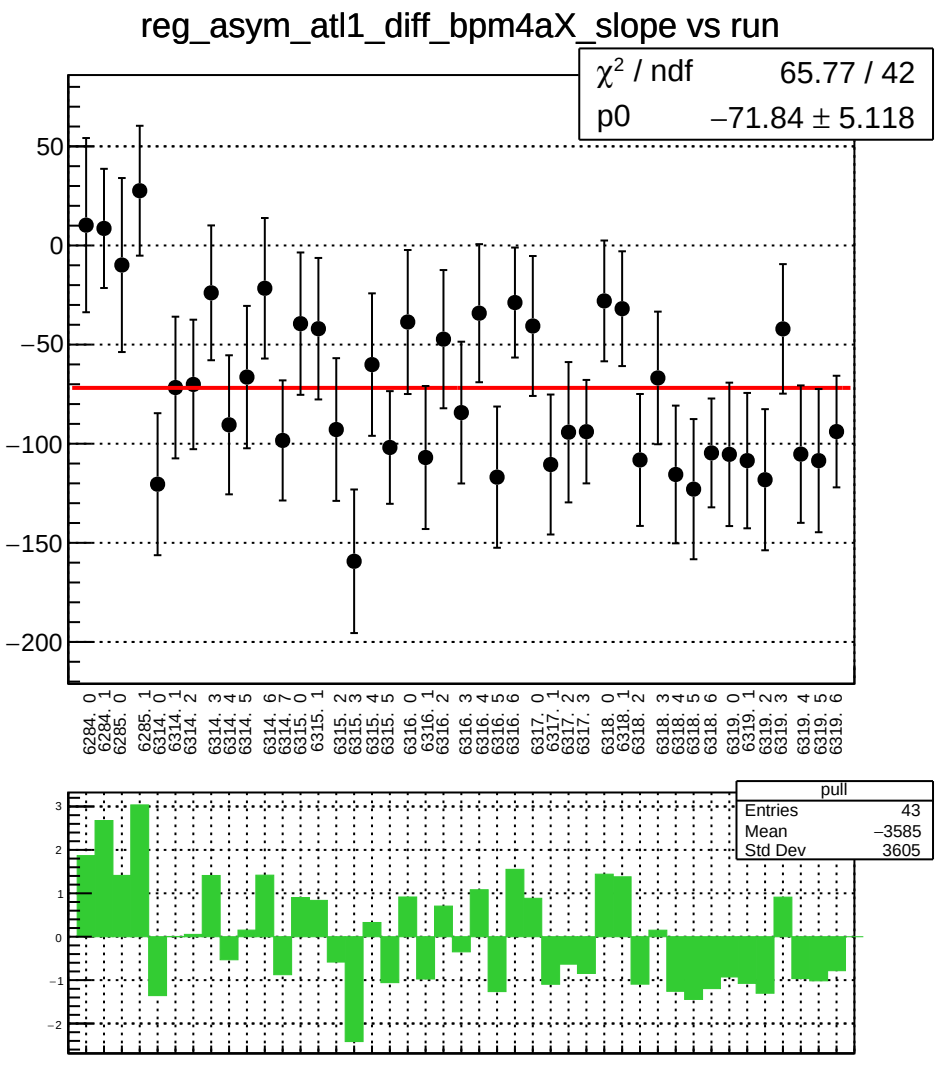

pull1D
Entries 43
Mean −0.004705
Std Dev 0.4106
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

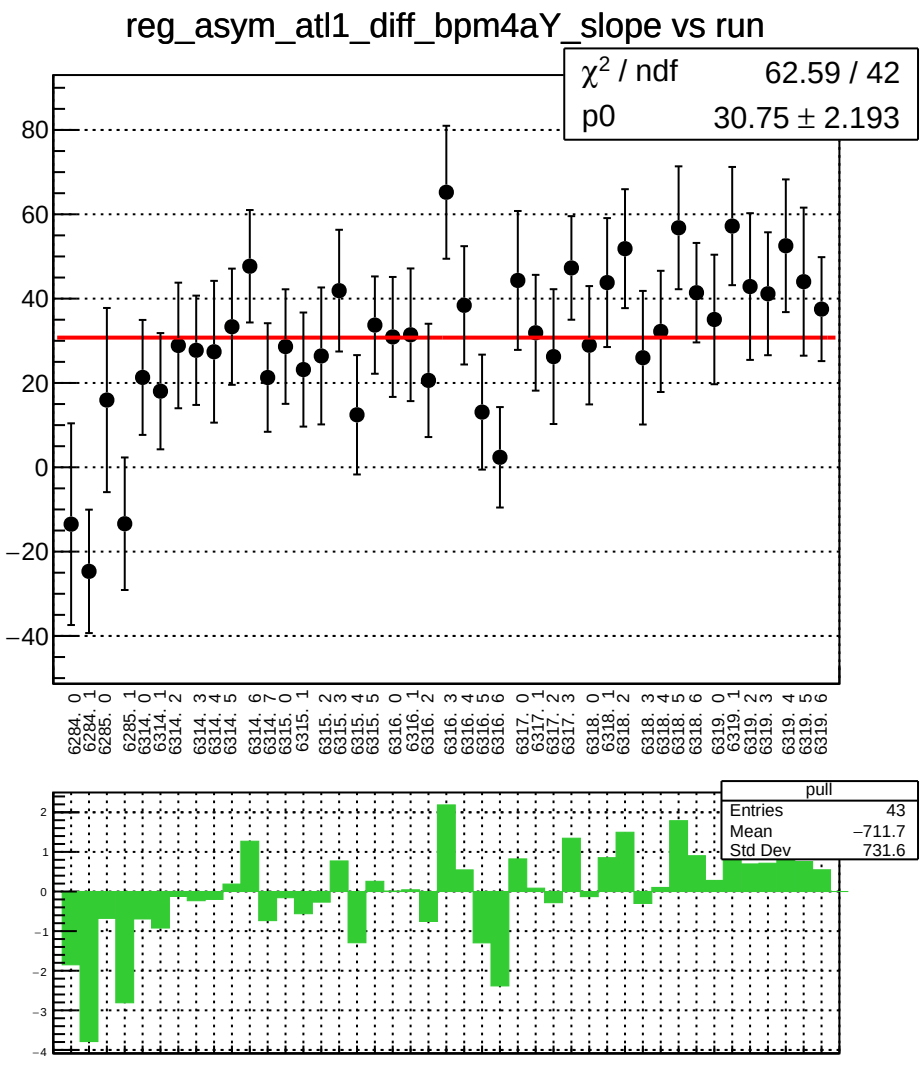

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.15 / 42
p0 −47.76 ± 2.86
0
−20
−40
−60
−80
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −285.4
Std Dev 303.7
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.009183
Std Dev 0.4858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

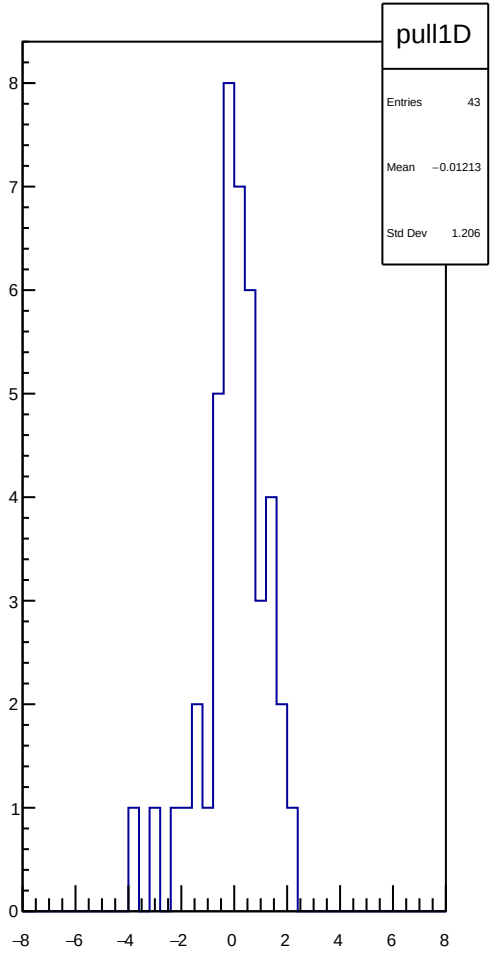

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.35 / 42
p0 40.57 ± 1.395
70
60
50
40
30
20
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −1014
Std Dev 1030
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.004019
Std Dev 0.6166
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

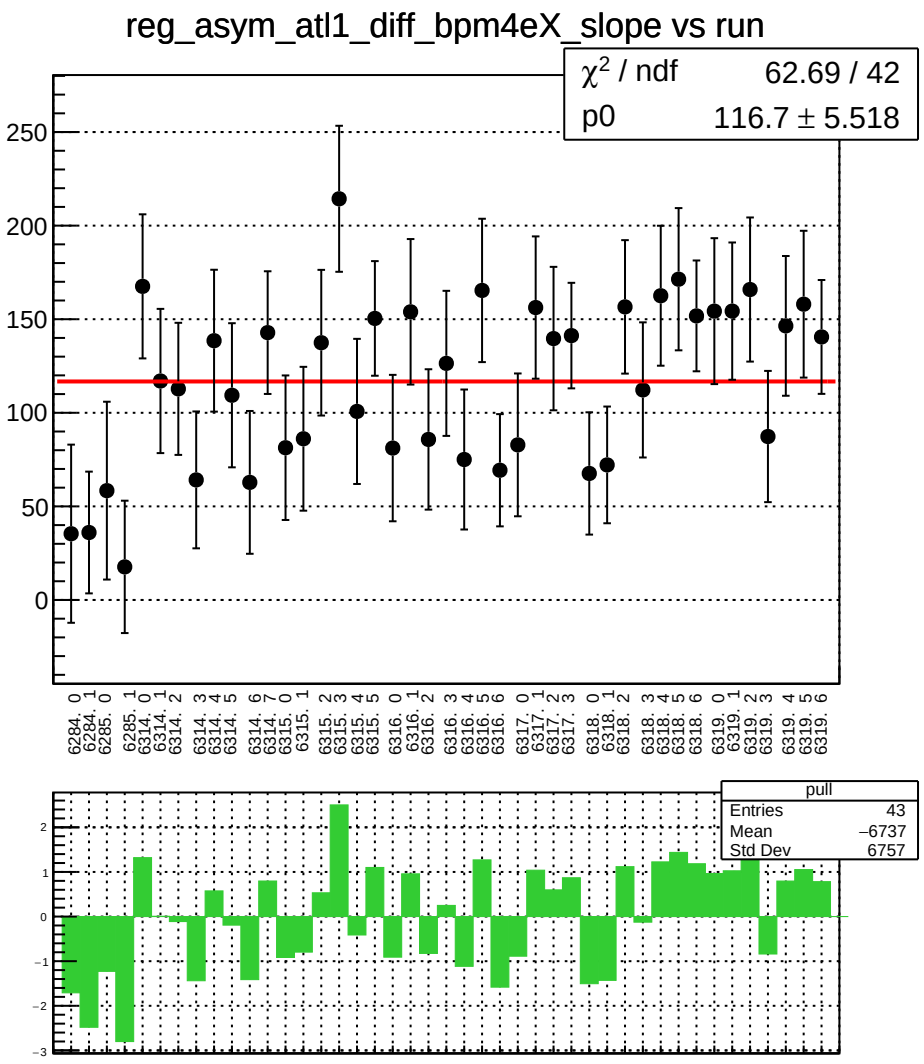

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 5.708 / 42
p0 −0.3721± 0.1096
pull
Entries 43
Mean 330.3
Std Dev 316.3

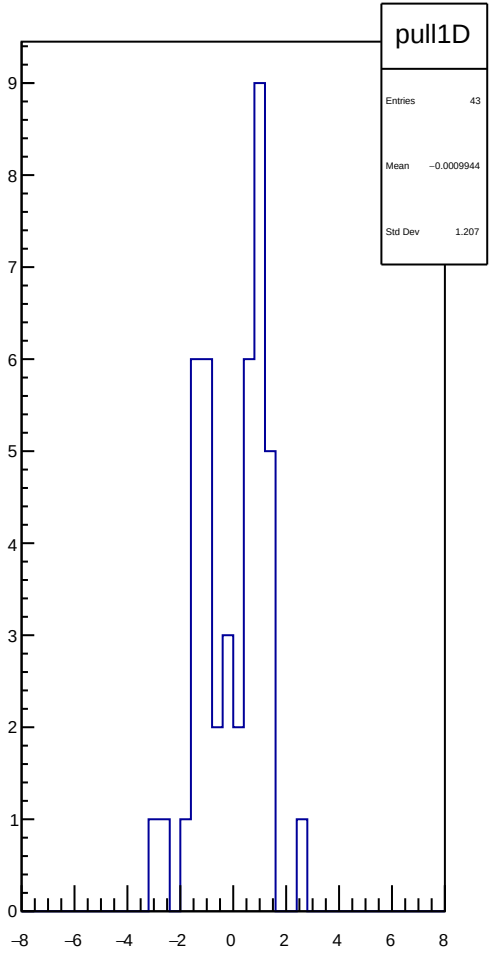

pull1D
Entries 43
Mean 0.003539
Std Dev 0.3643

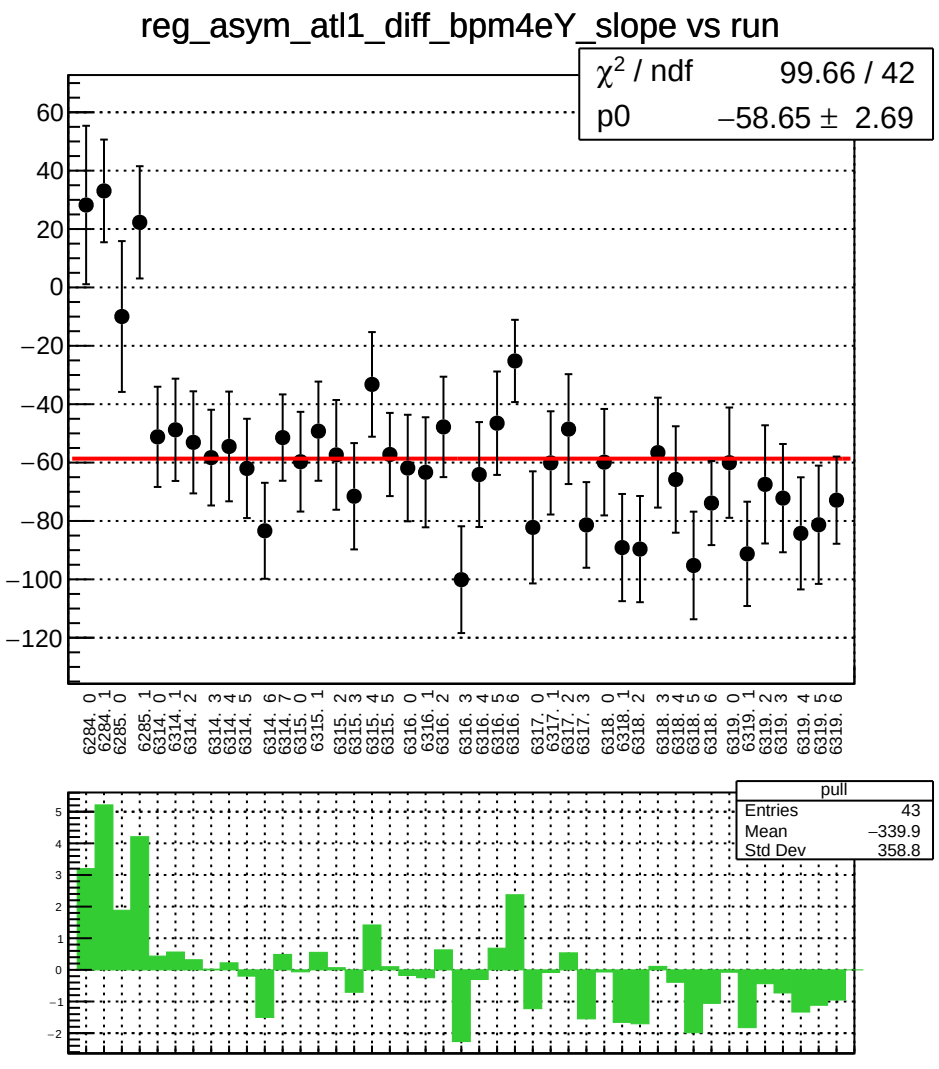

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 65.77 / 42
p0 −71.84 ± 5.118
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −3585
Std Dev 3605
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001967
Std Dev 1.237
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

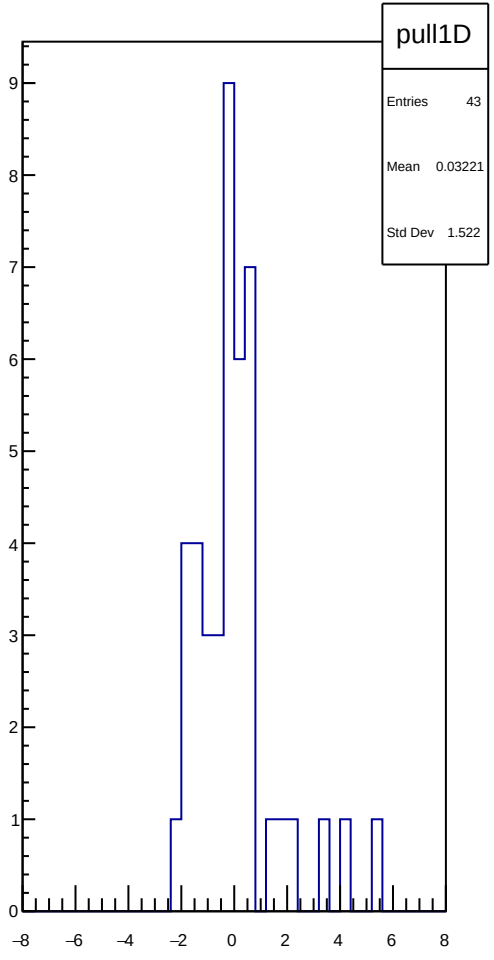

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 62.59 / 42
p0 30.75 ± 2.193
pull
Entries 43
Mean −711.7
Std Dev 731.6

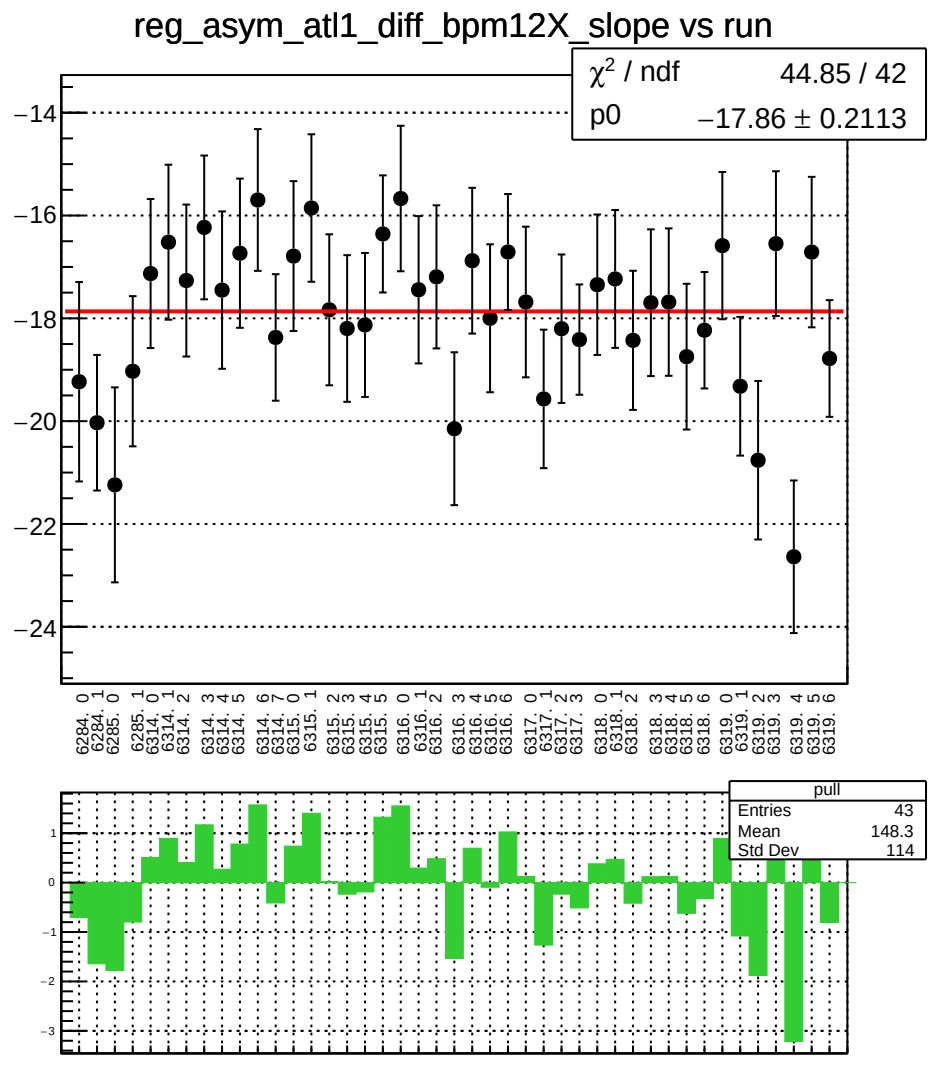

pull1D
Entries 43
Mean −0.01213
Std Dev 1.206

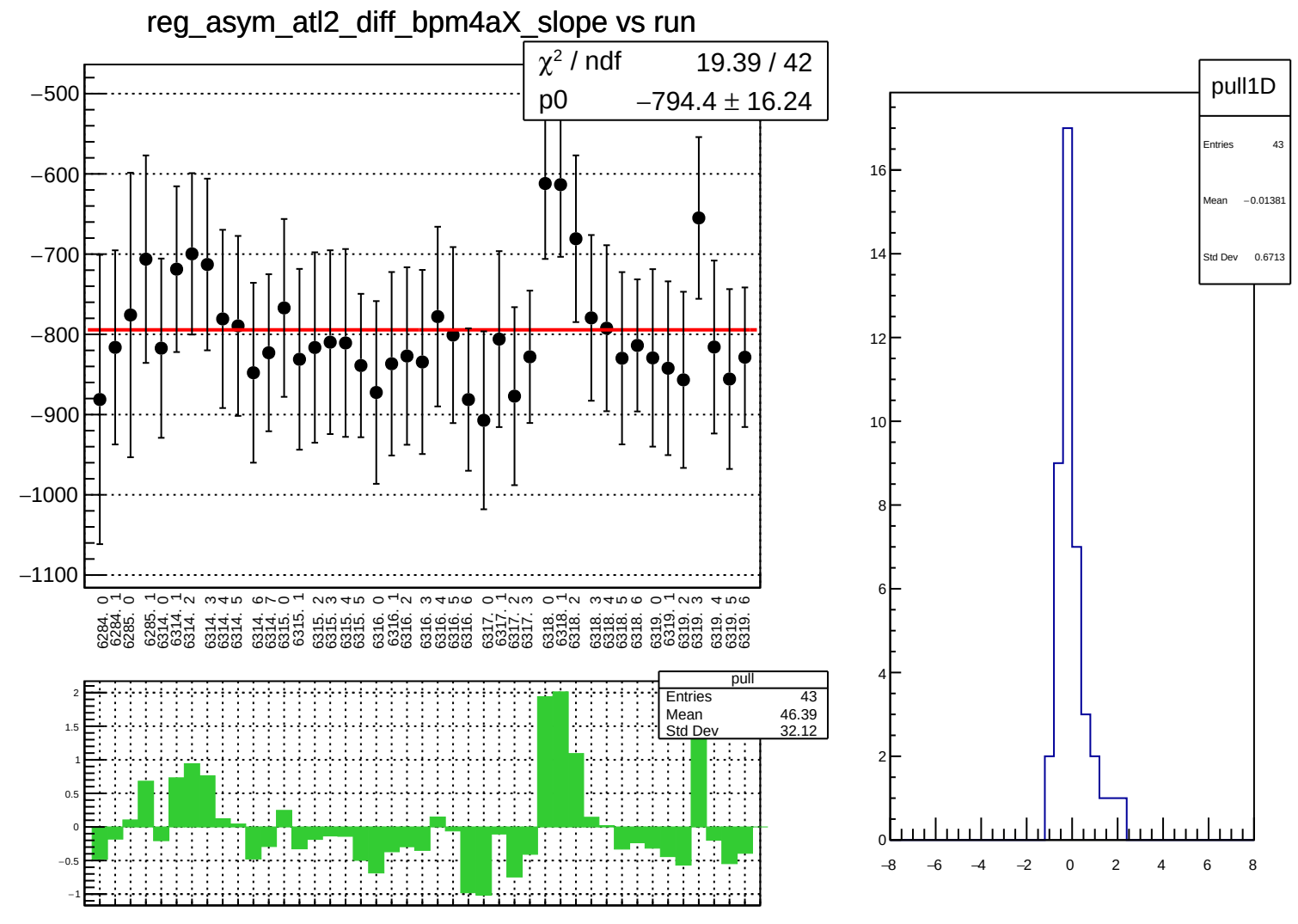

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 62.69 / 42
p0 116.7 ± 5.518
250
200
150
100
50
0
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −6737
Std Dev 6757
2
1
0
−1
−2
−3

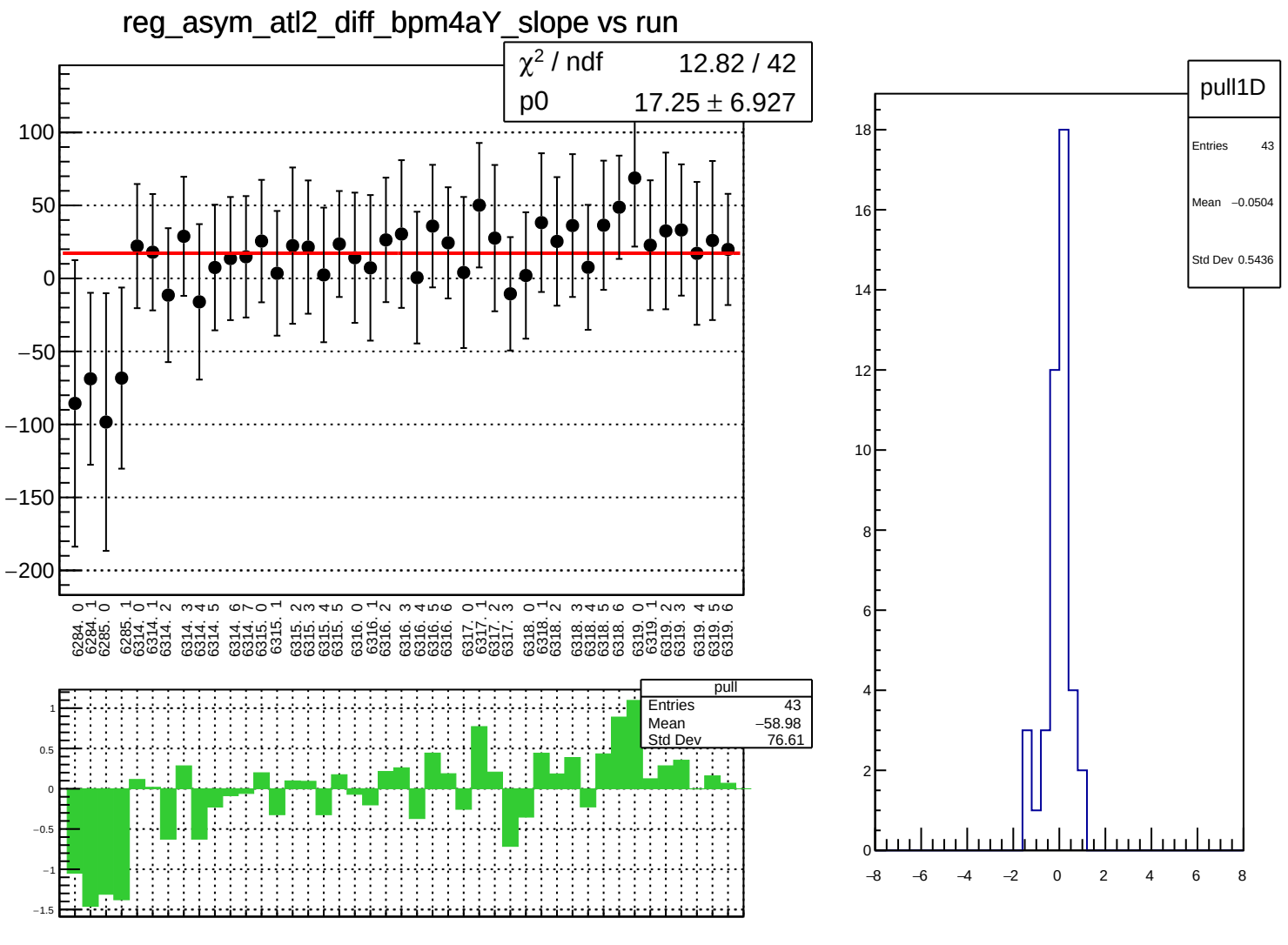

pull1D
Entries 43
Mean −0.0009944
Std Dev 1.207
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

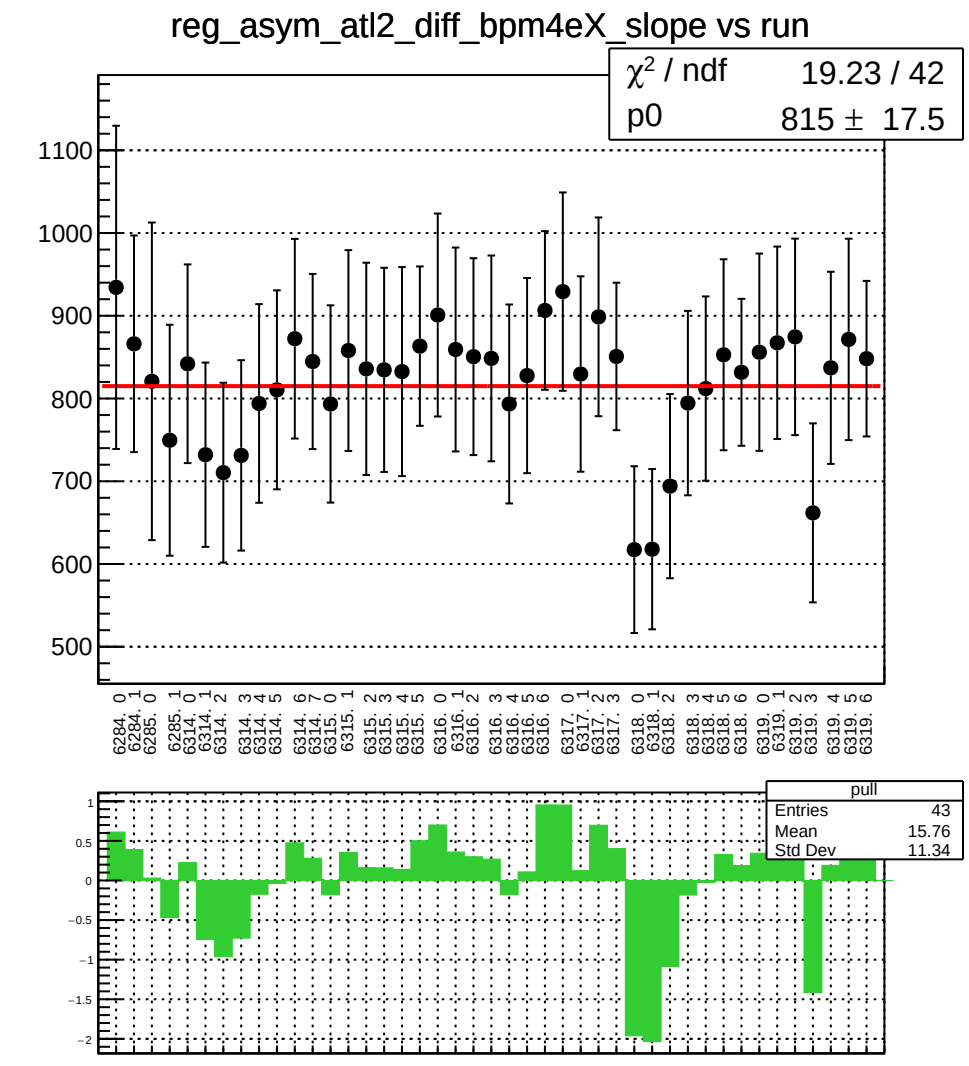

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 99.66 / 42
p0 −58.65 ± 2.69
pull
Entries 43
Mean −339.9
Std Dev 358.8

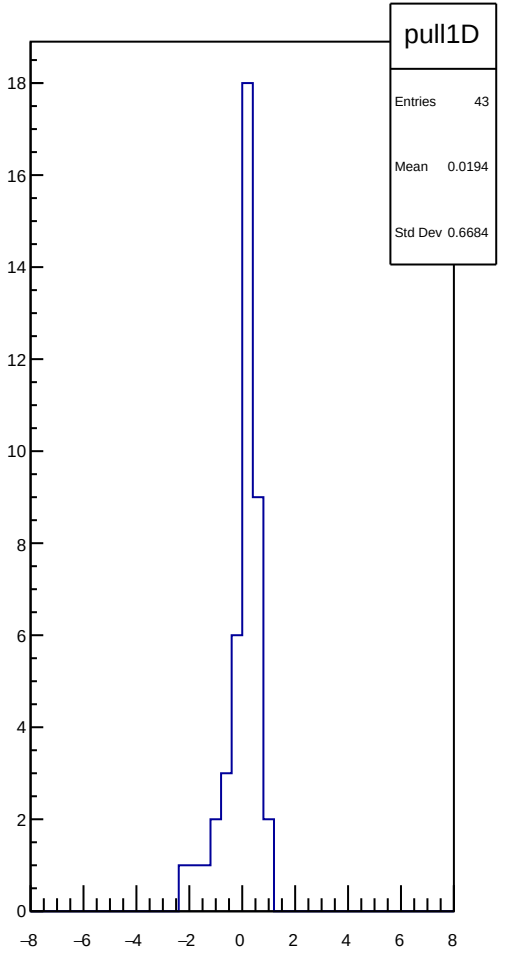

pull1D
Entries 43
Mean 0.03221
Std Dev 1.522

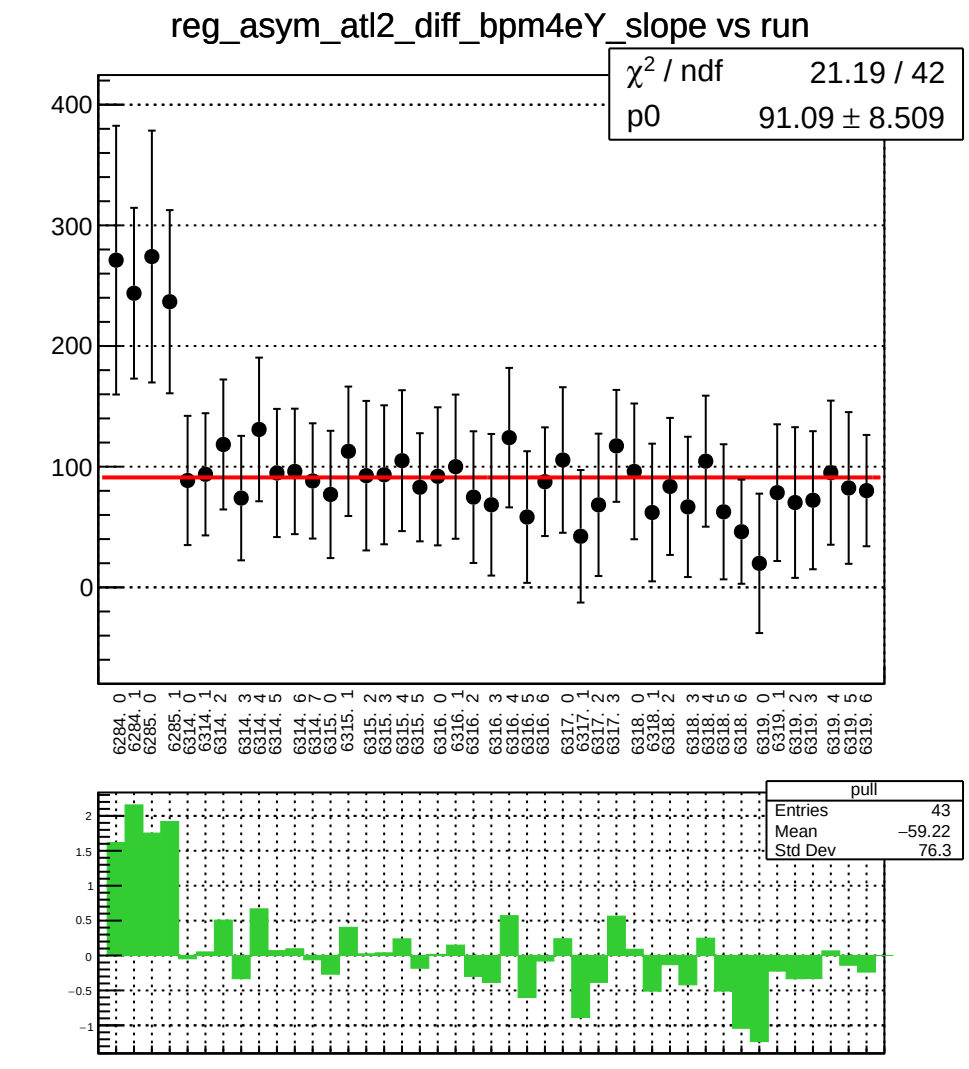

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 44.85 / 42
p0 −17.86 ± 0.2113
−14
−16
−18
−20
−22
−24
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 148.3
Std Dev 114
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01786
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

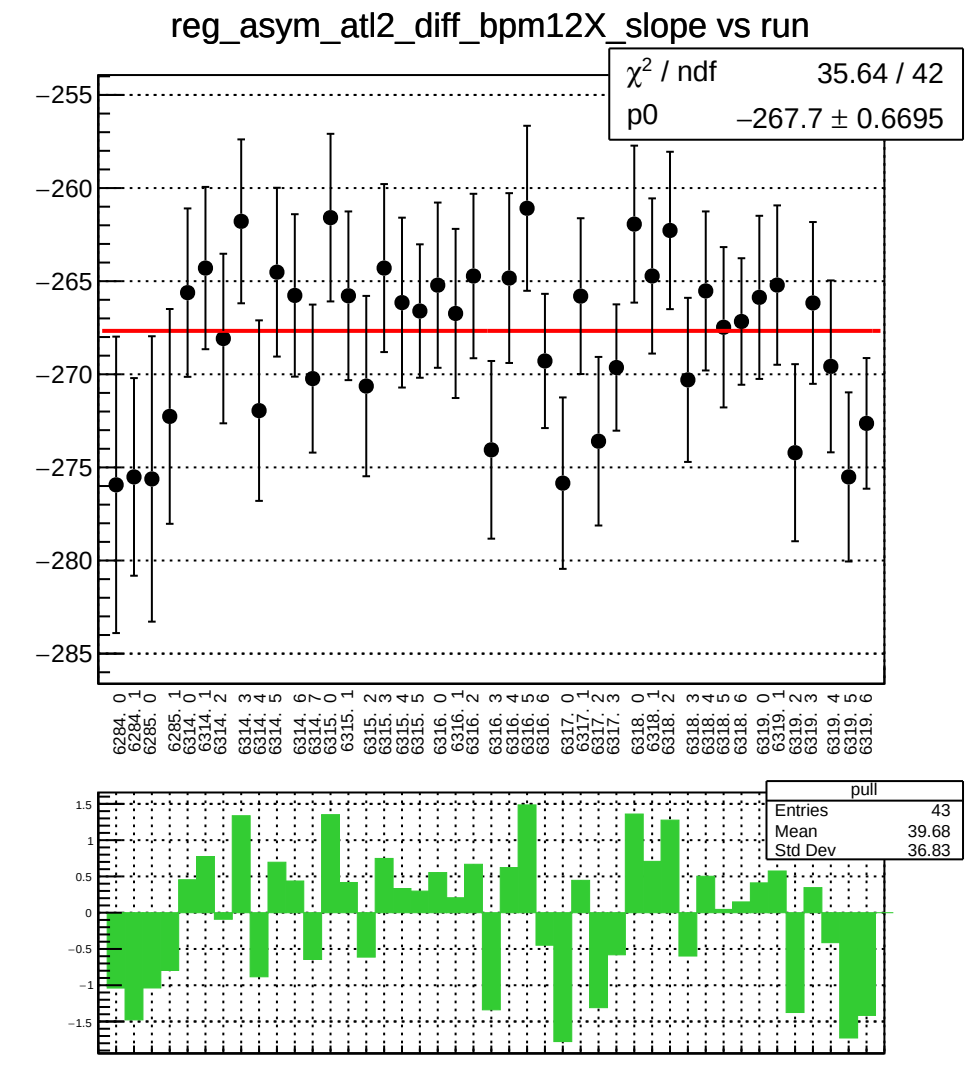

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 19.39 / 42
p0 −794.4 ± 16.24
−500
−600
−700
−800
−900
−1000
−1100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 46.39
Std Dev 32.12
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01381
Std Dev 0.6713
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

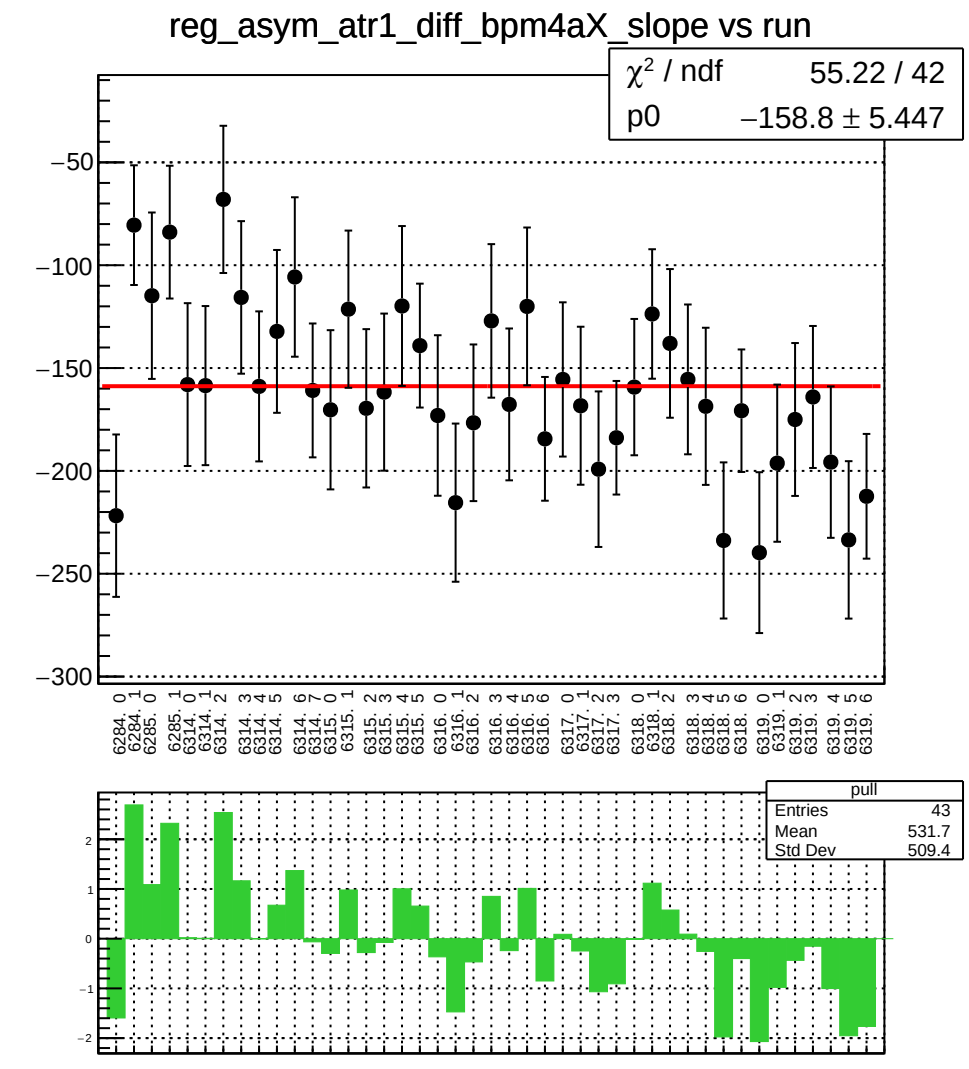

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 12.82 / 42
p0 17.25 ± 6.927
100
50
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −58.98
Std Dev 76.61
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0504
Std Dev 0.5436
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

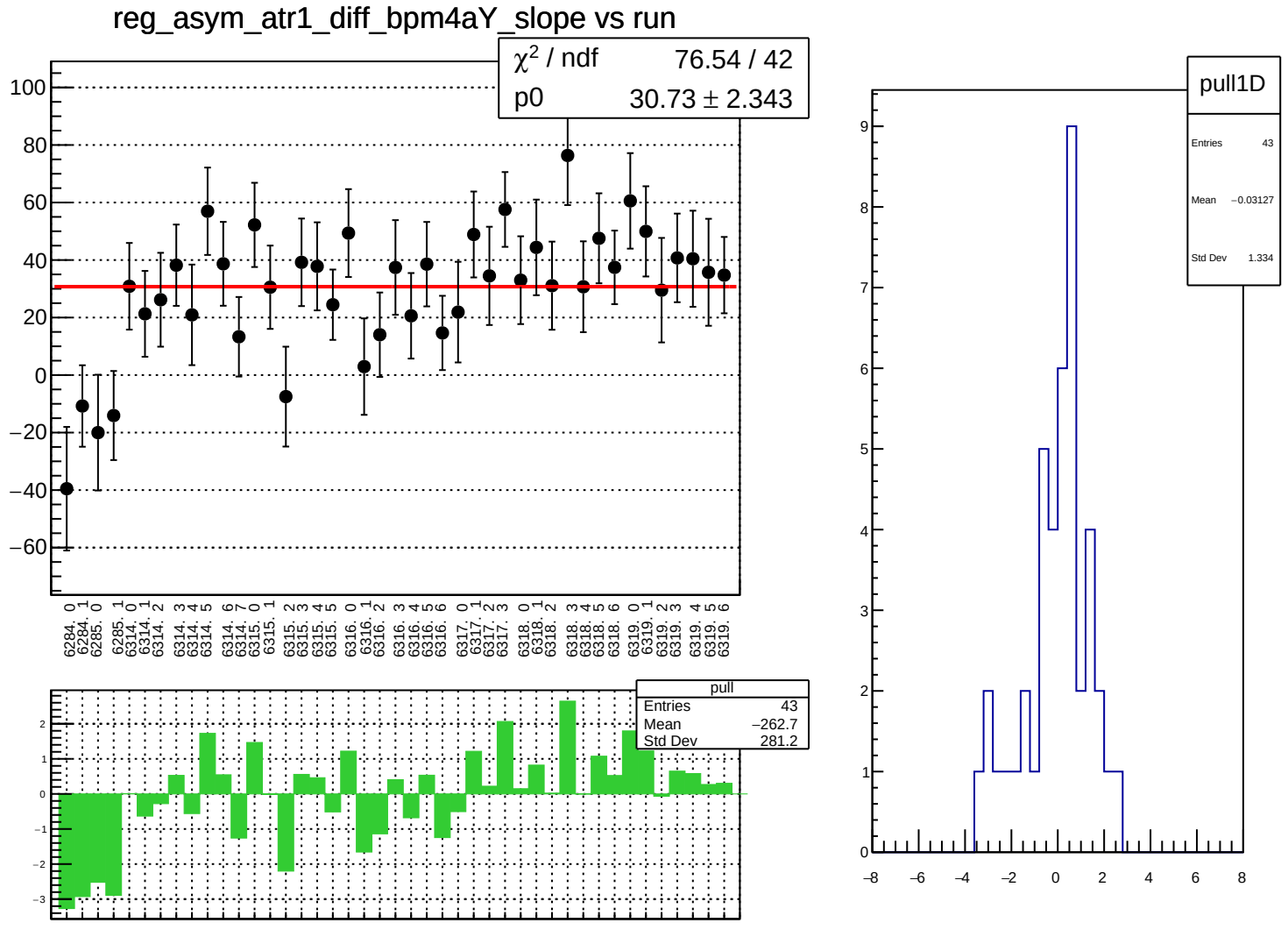

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 19.23 / 42
p0 815 ± 17.5
1100
1000
900
800
700
600
500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 15.76
Std Dev 11.34
1
0.5
0
−0.5
−1
−1.5
−2

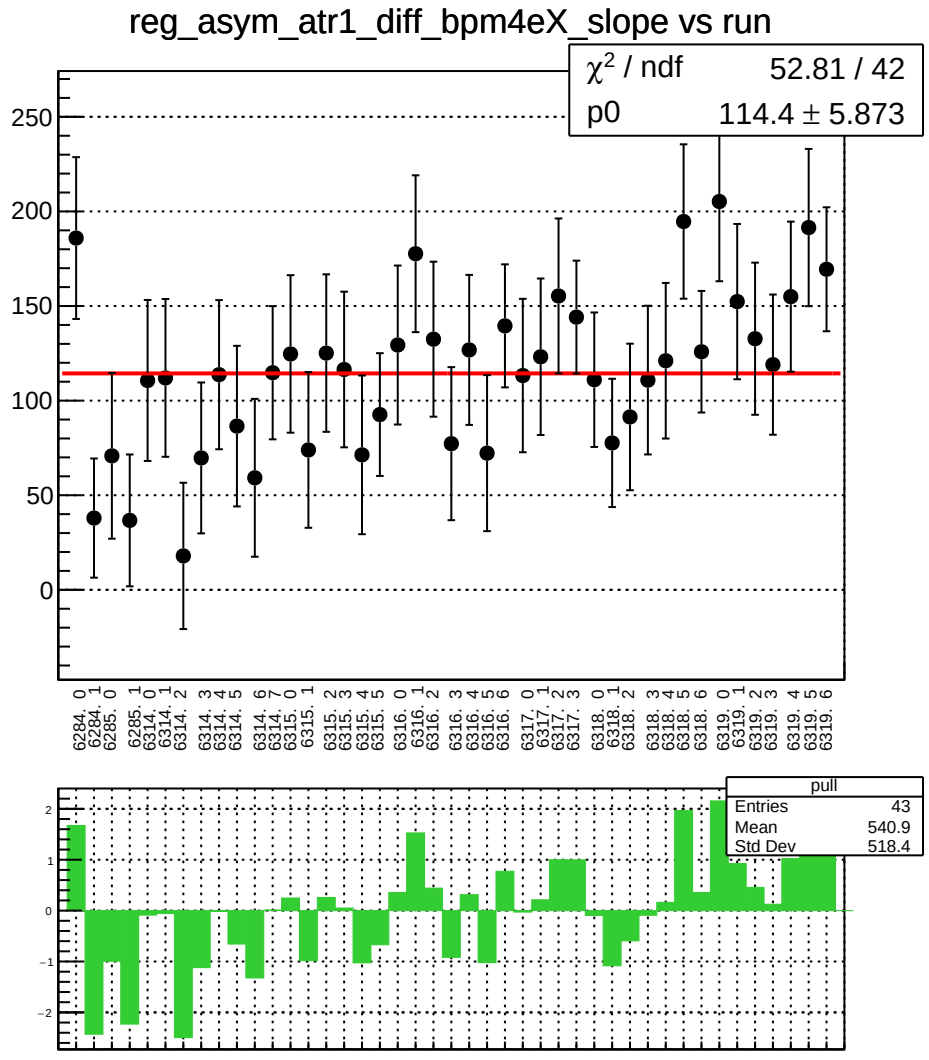

pull1D
Entries 43
Mean 0.0194
Std Dev 0.6684
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

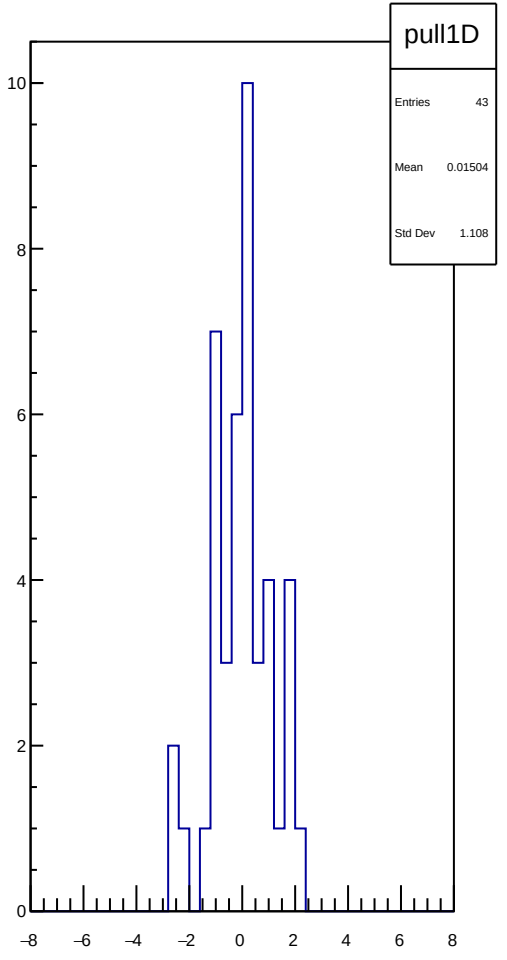

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 21.19 / 42
p0 91.09 ± 8.509
400
300
200
100
0
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −59.22
Std Dev 76.3
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.06641
Std Dev 0.6989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

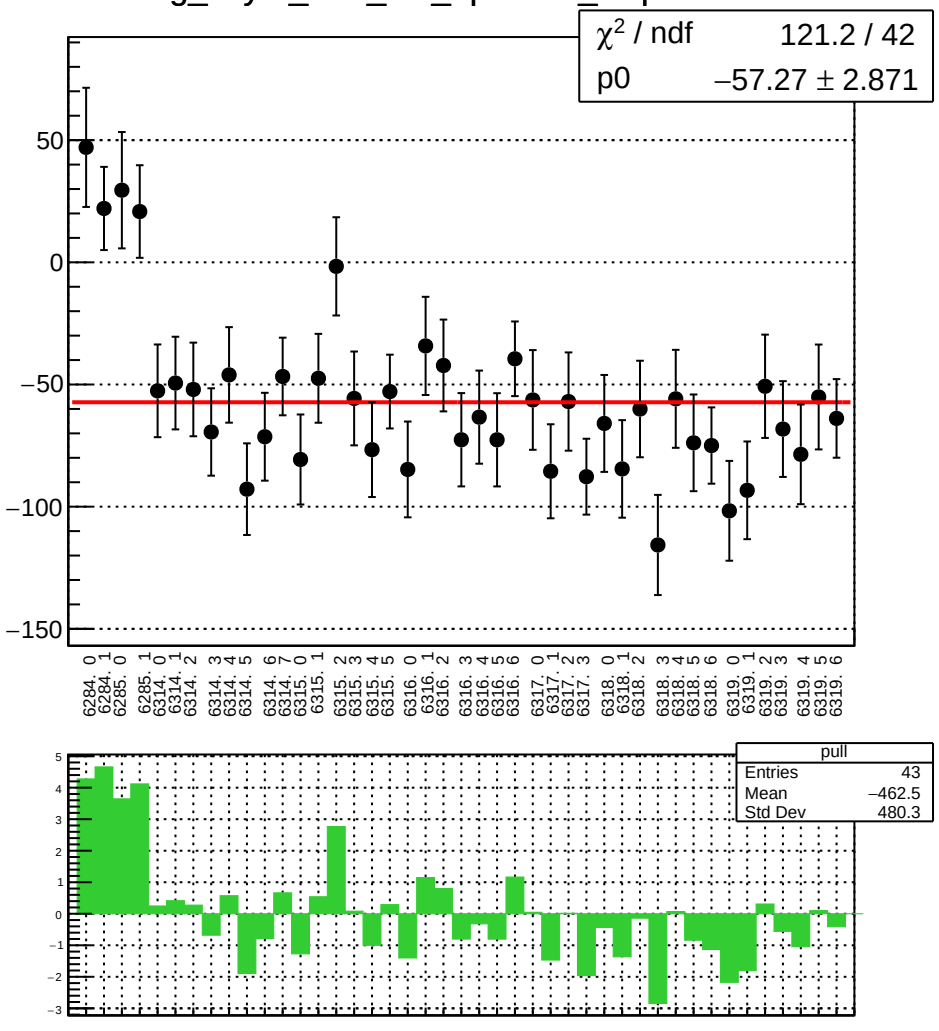

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 35.64 / 42
p0 −267.7 ± 0.6695
−255
−260
−265
−270
−275
−280
−285
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 39.68
Std Dev 36.83
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.03186
Std Dev 0.9099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

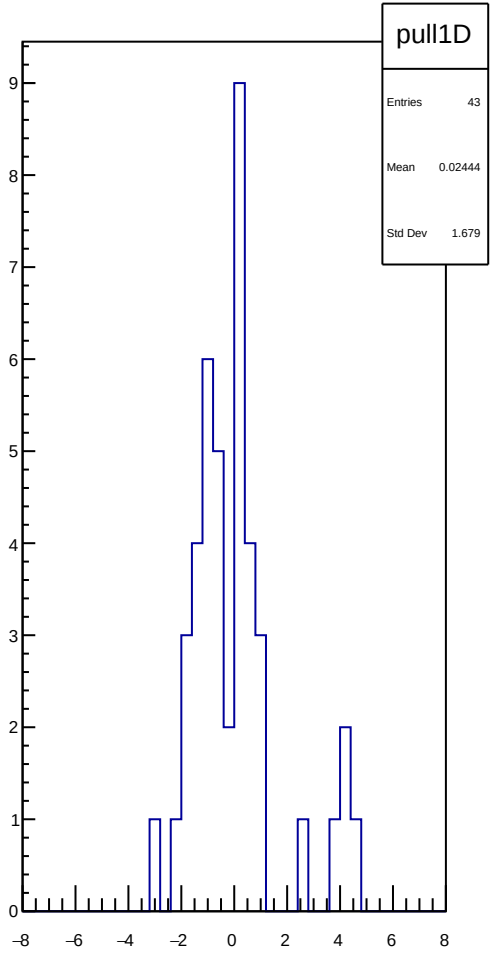

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 55.22 / 42
p0 −158.8 ± 5.447
−50
−100
−150
−200
−250
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 531.7
Std Dev 509.4
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01596
Std Dev 1.133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

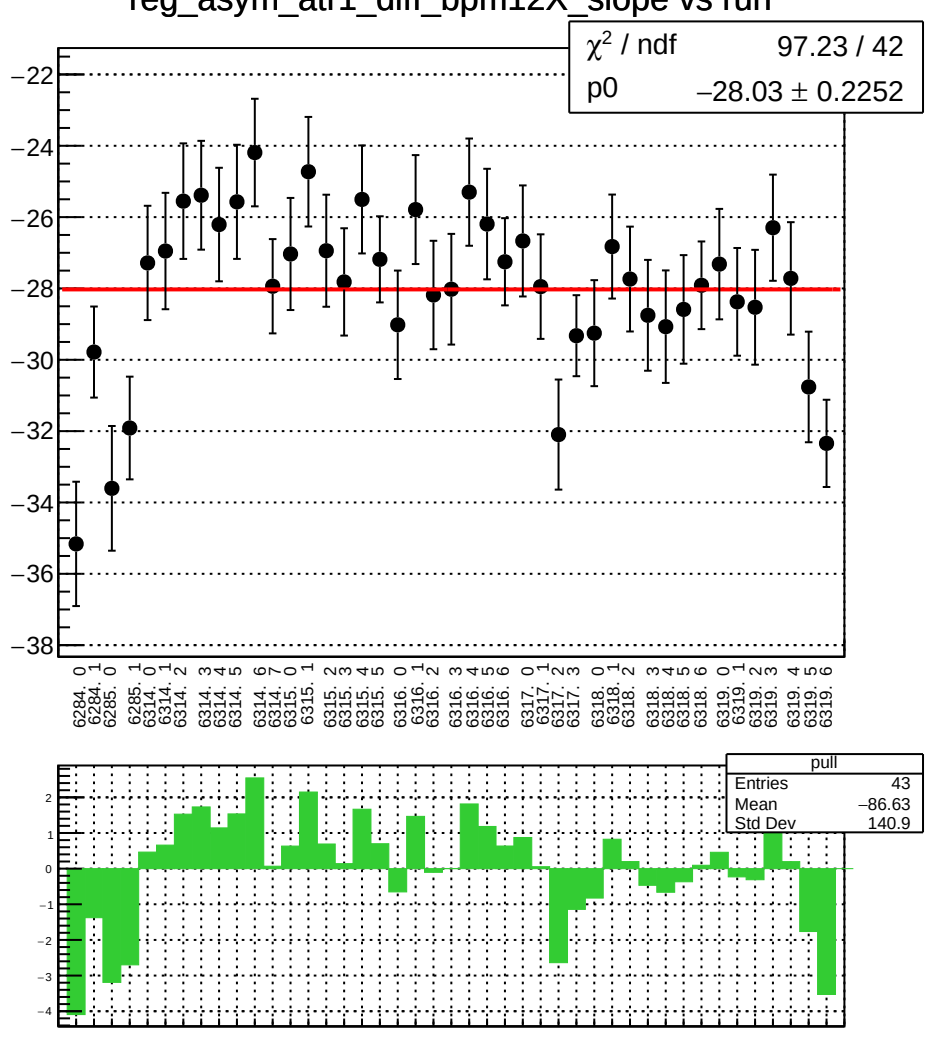

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 76.54 / 42
p0 30.73 ± 2.343
100
80
60
40
20
0
−20
−40
−60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −262.7
Std Dev 281.2
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03127
Std Dev 1.334
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

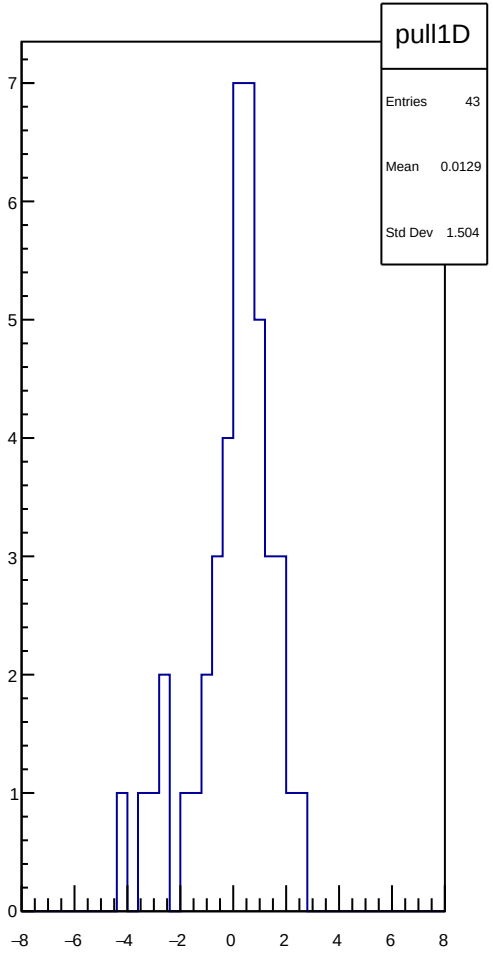

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 52.81 / 42
p0 114.4 ± 5.873
250
200
150
100
50
0
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 540.9
Std Dev 518.4
2
1
0
−1
−2

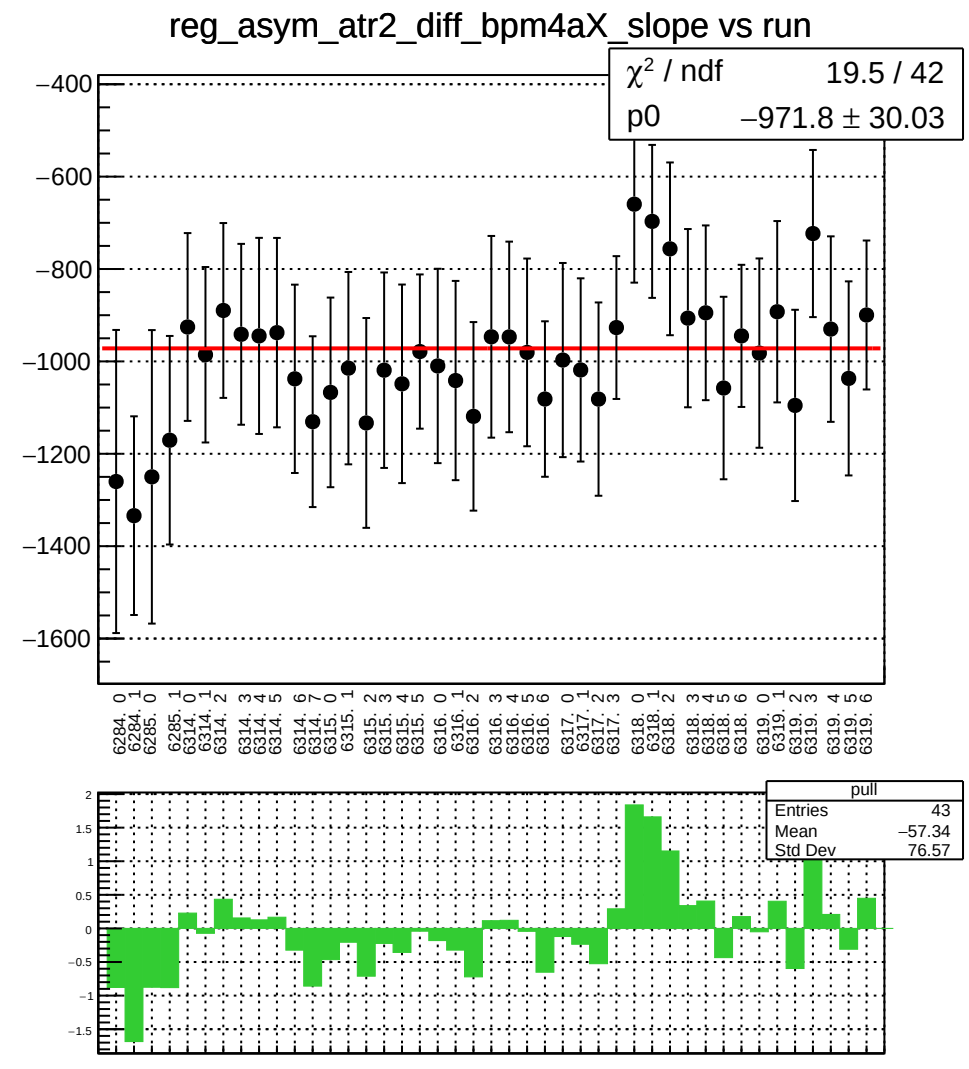

pull1D
Entries 43
Mean 0.01504
Std Dev 1.108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

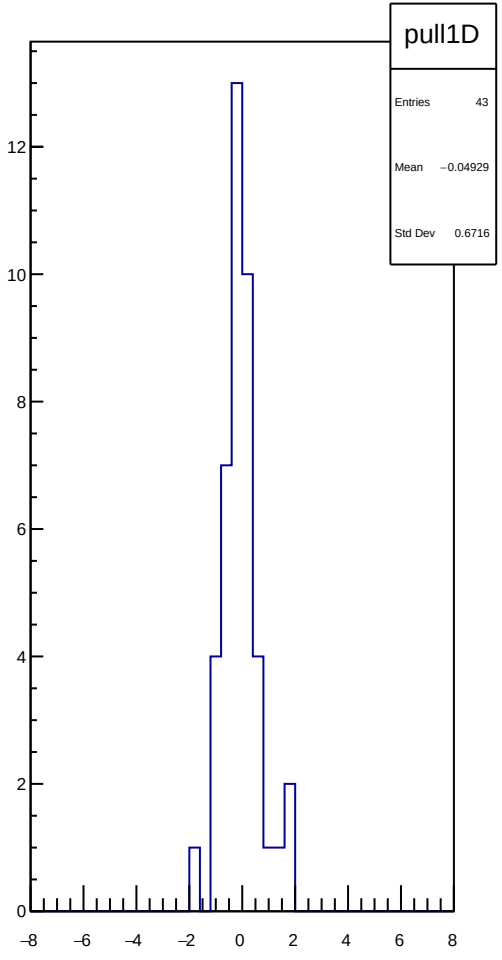

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 121.2 / 42
p0 −57.27 ± 2.871
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −462.5
Std Dev 480.3
5
4
3
2
1
0
−1
−2
−3

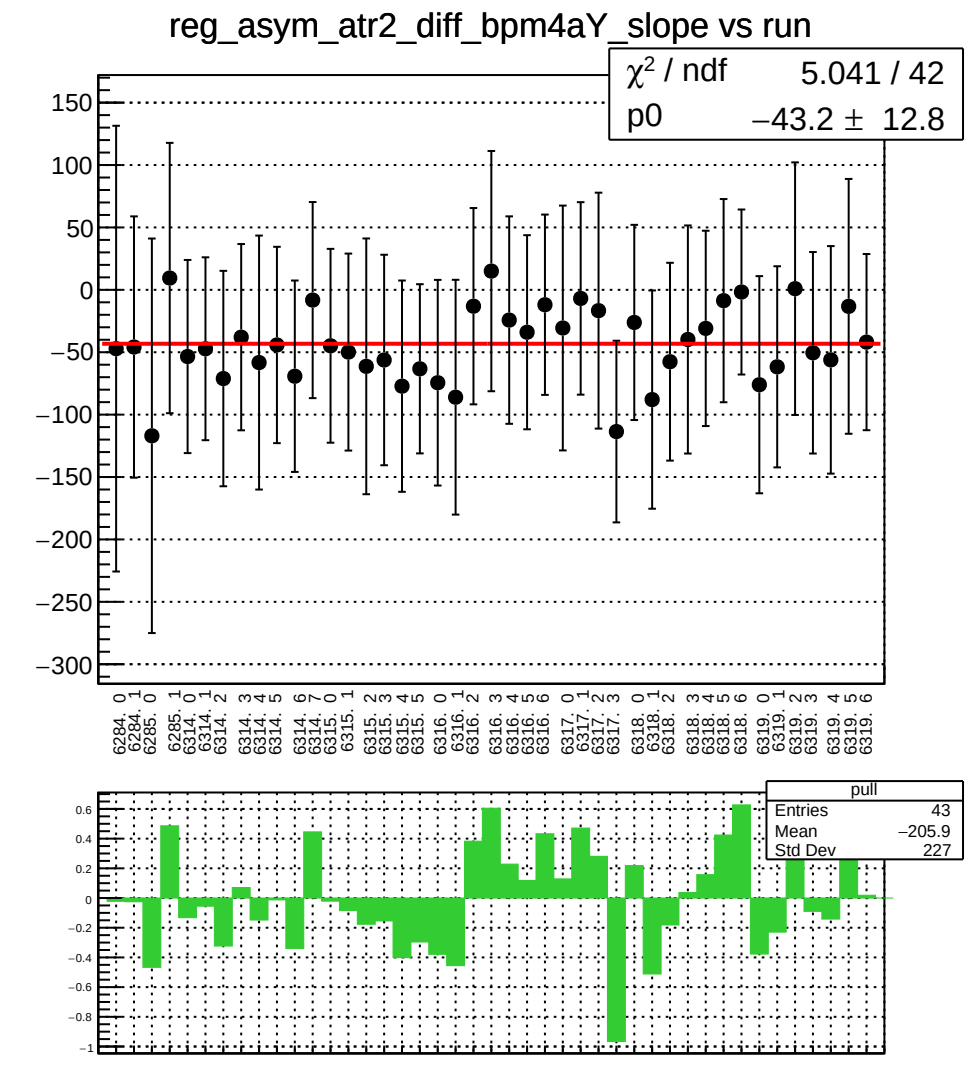

pull1D
Entries 43
Mean 0.02444
Std Dev 1.679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

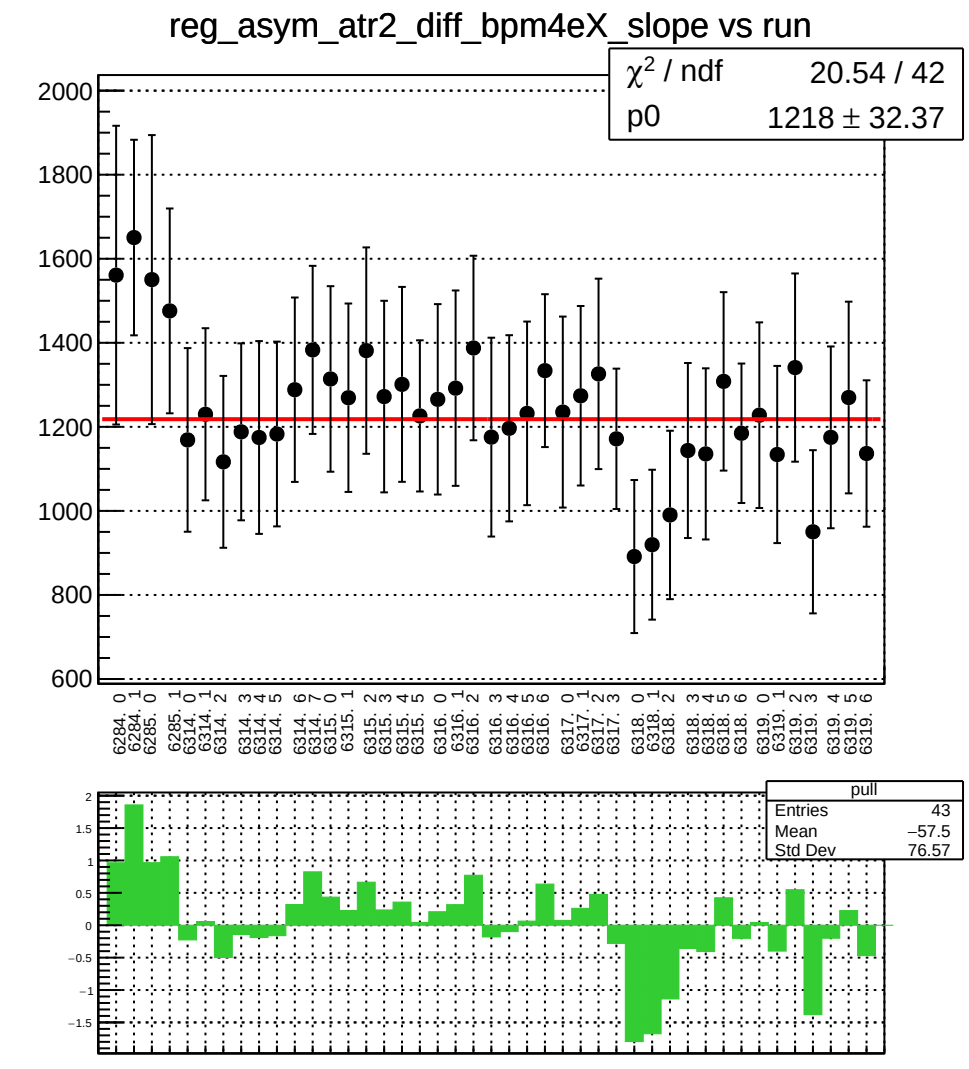

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 97.23 / 42
p0 −28.03 ± 0.2252
pull
Entries 43
Mean −86.63
Std Dev 140.9

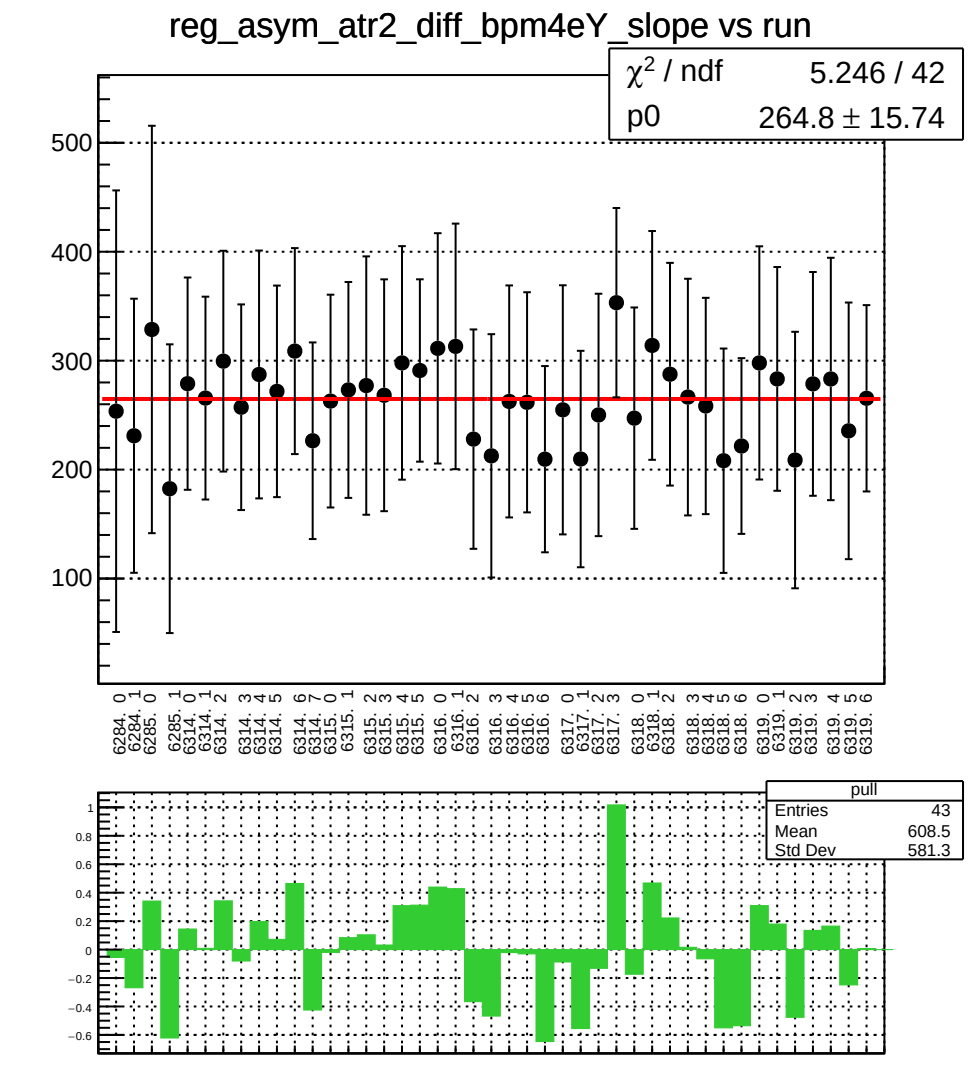

pull1D
Entries 43
Mean 0.0129
Std Dev 1.504

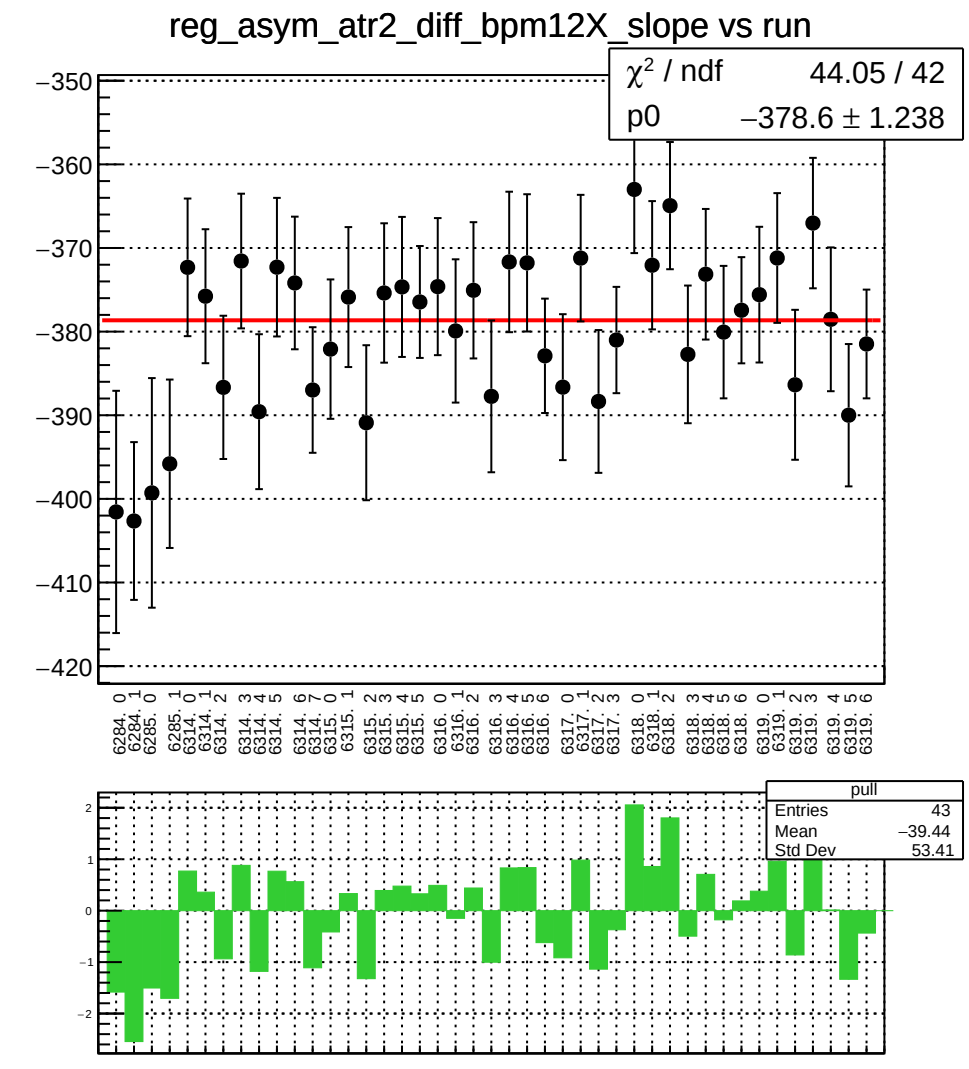

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 19.5 / 42
p0 −971.8 ± 30.03
−400
−600
−800
−1000
−1200
−1400
−1600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −57.34
Std Dev 76.57
2
1.5
1
0.5
0
−0.5
−1
−1.5

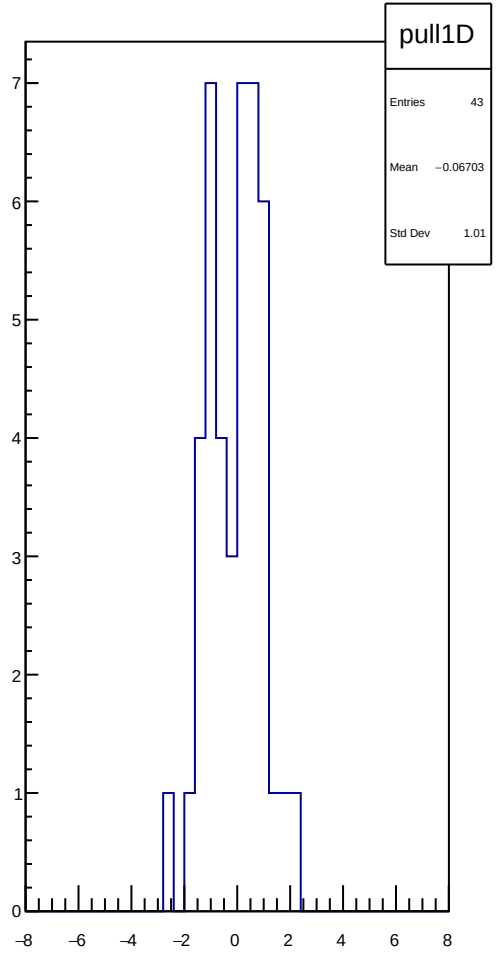

pull1D
Entries 43
Mean −0.04929
Std Dev 0.6716
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

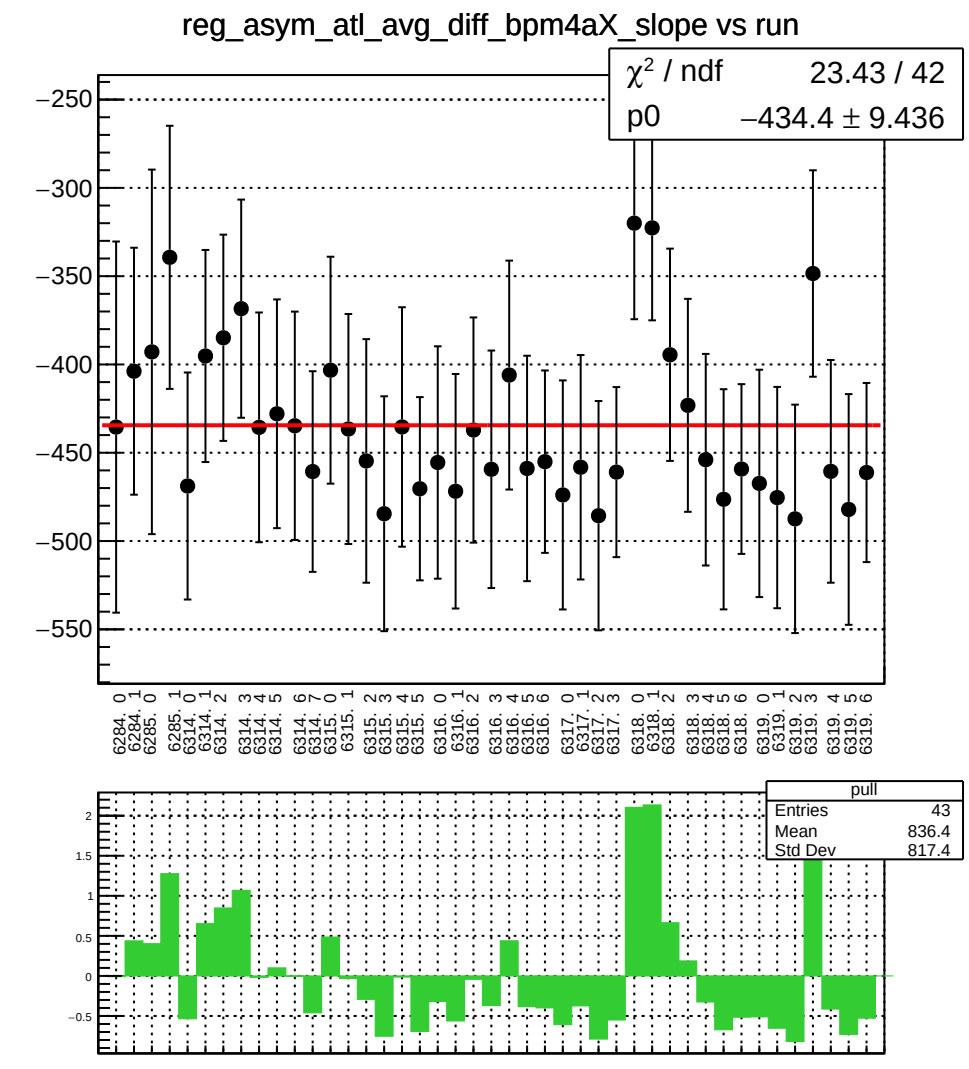

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.041 / 42
p0 −43.2 ± 12.8
150
100
50
0
−50
−100
−150
−200
−250
−300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −205.9
Std Dev 227
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean −0.002947
Std Dev 0.3424
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

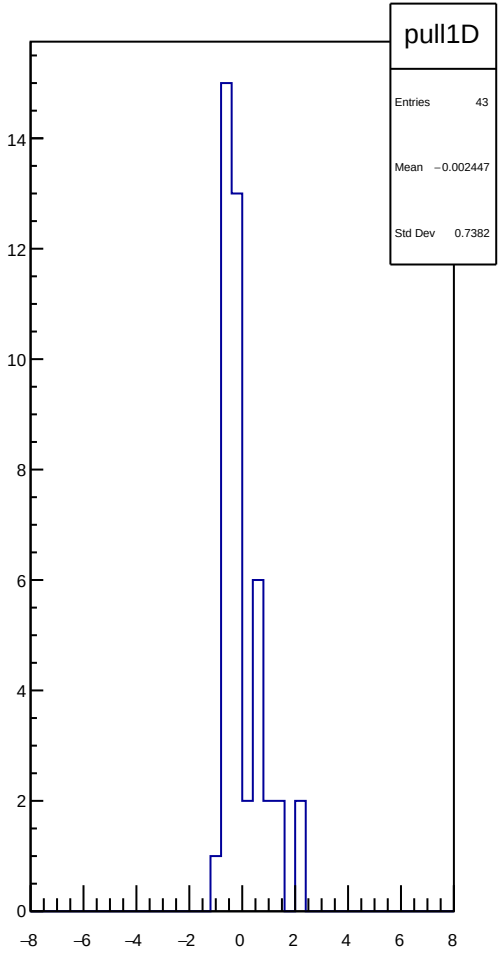

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 20.54 / 42
p0 1218 ± 32.37
2000
1800
1600
1400
1200
1000
800
600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −57.5
Std Dev 76.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.05253
Std Dev 0.6892
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

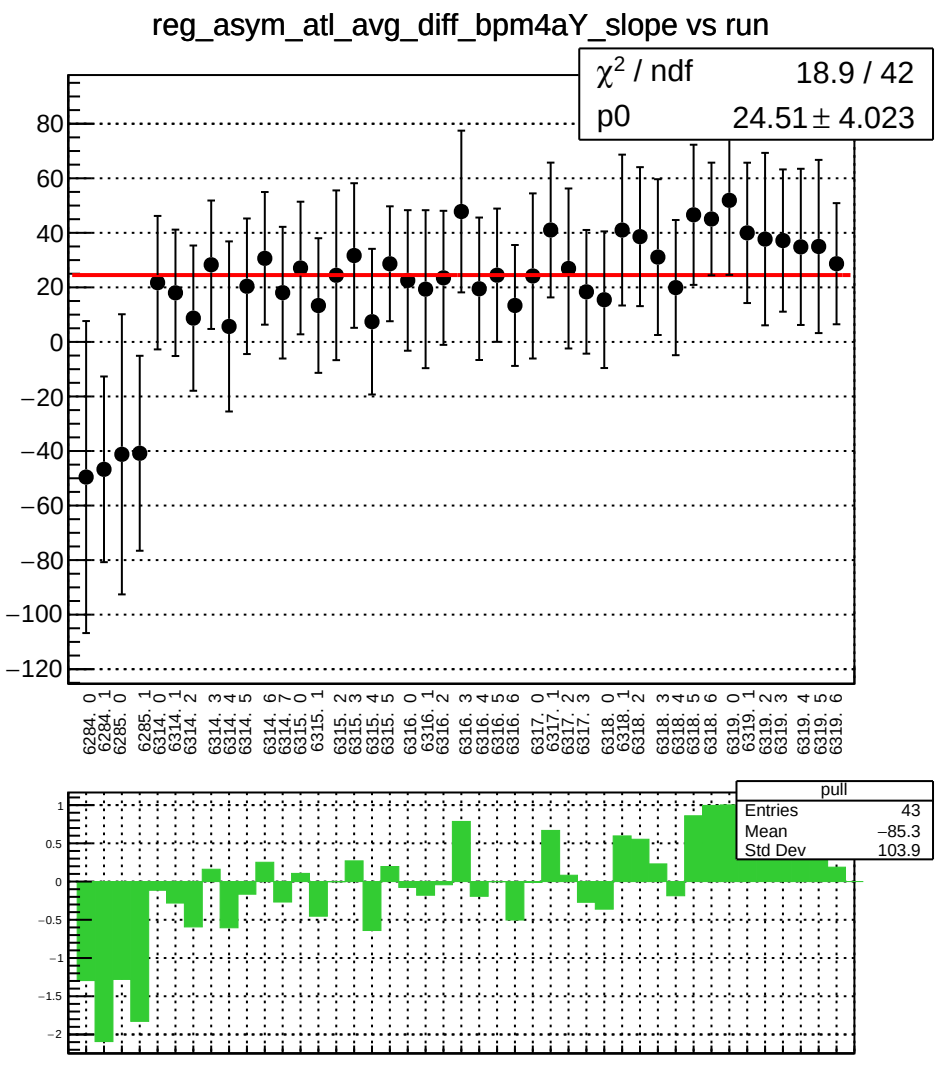

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.246 / 42
p0 264.8 ± 15.74
500
400
300
200
100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 608.5
Std Dev 581.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.000576
Std Dev 0.3493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

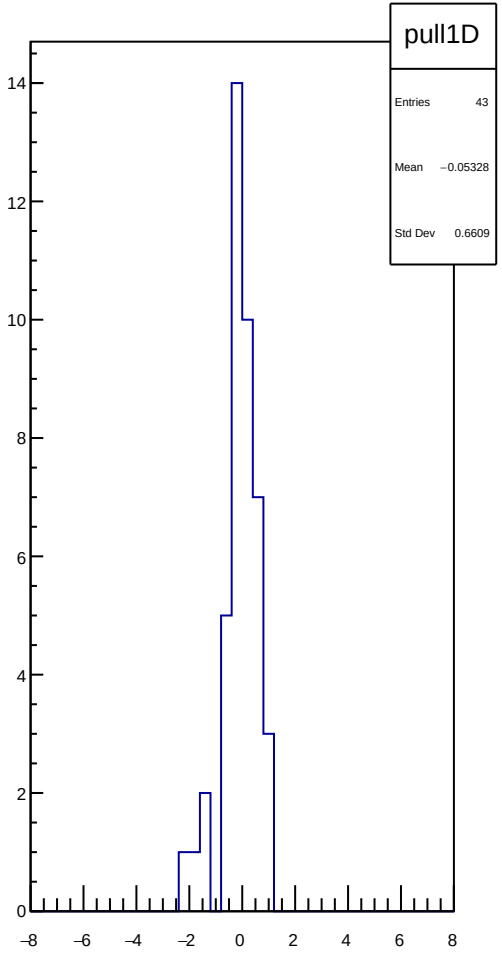

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 44.05 / 42
p0 −378.6 ± 1.238
pull
Entries 43
Mean −39.44
Std Dev 53.41

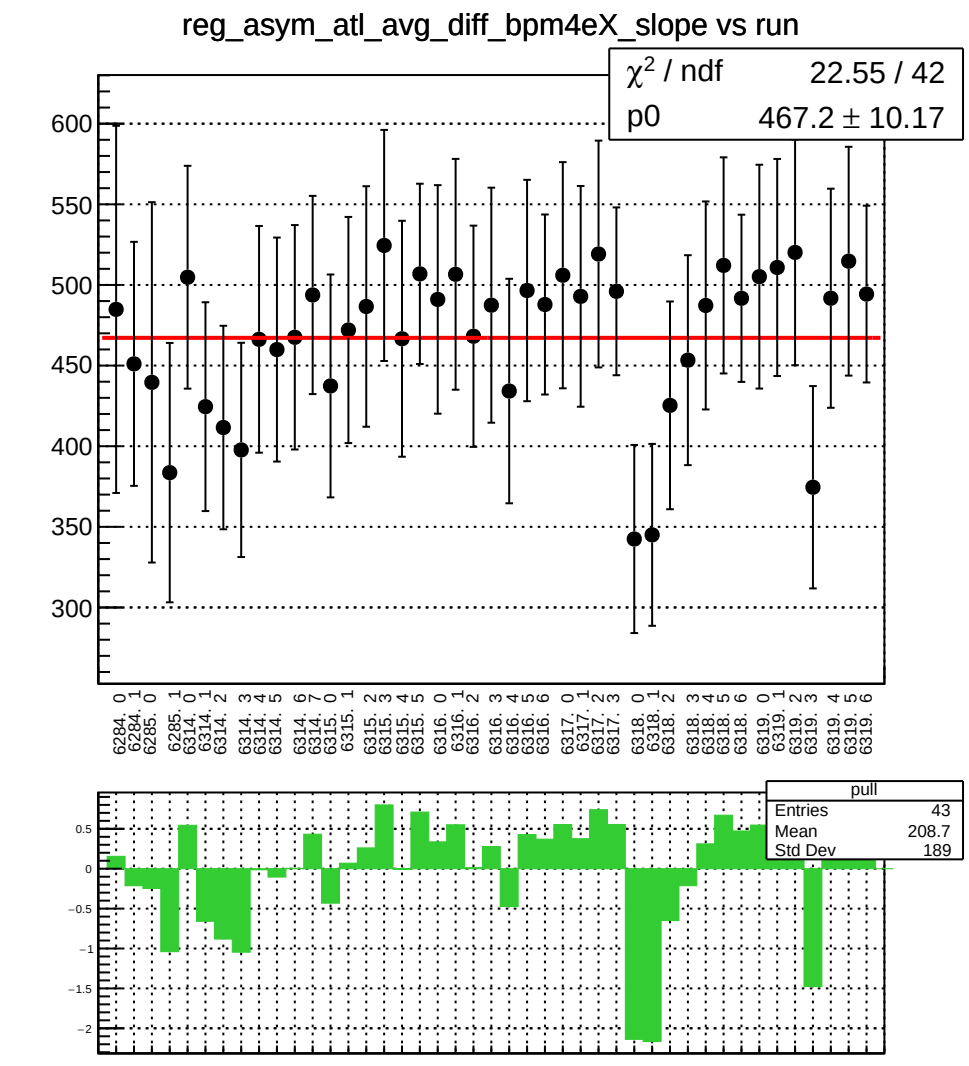

pull1D
Entries 43
Mean −0.06703
Std Dev 1.01

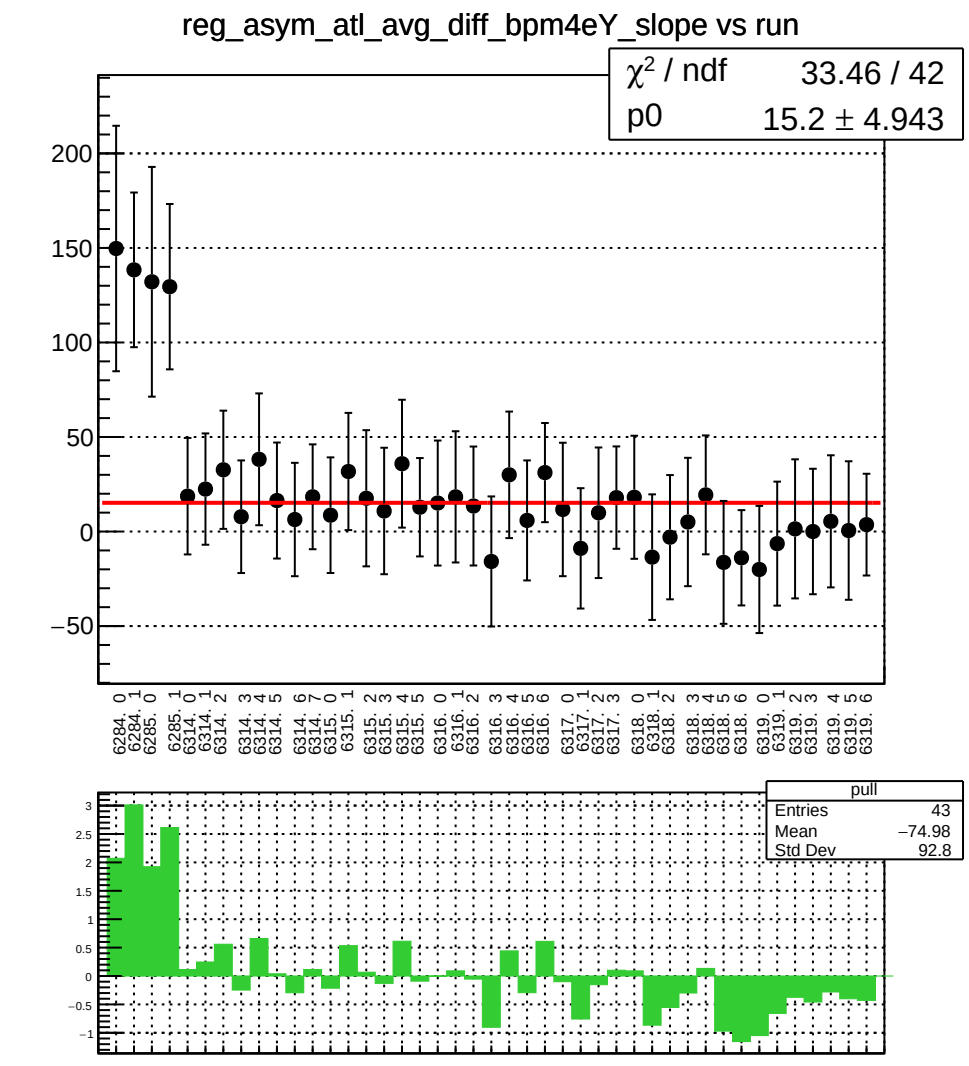

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 23.43 / 42
p0 −434.4 ± 9.436
−250
−300
−350
−400
−450
−500
−550
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 836.4
Std Dev 817.4
2
1.5
1
0.5
0
−0.5

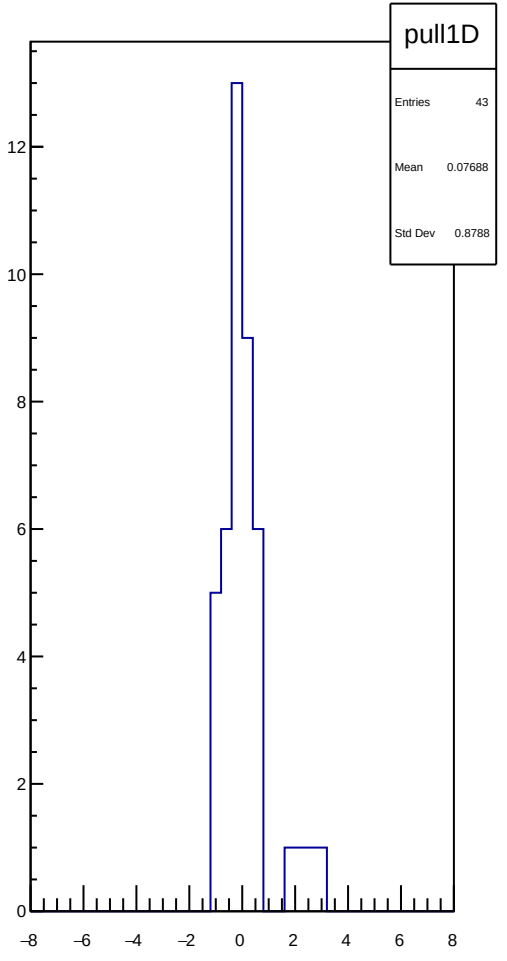

pull1D
Entries 43
Mean −0.002447
Std Dev 0.7382
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

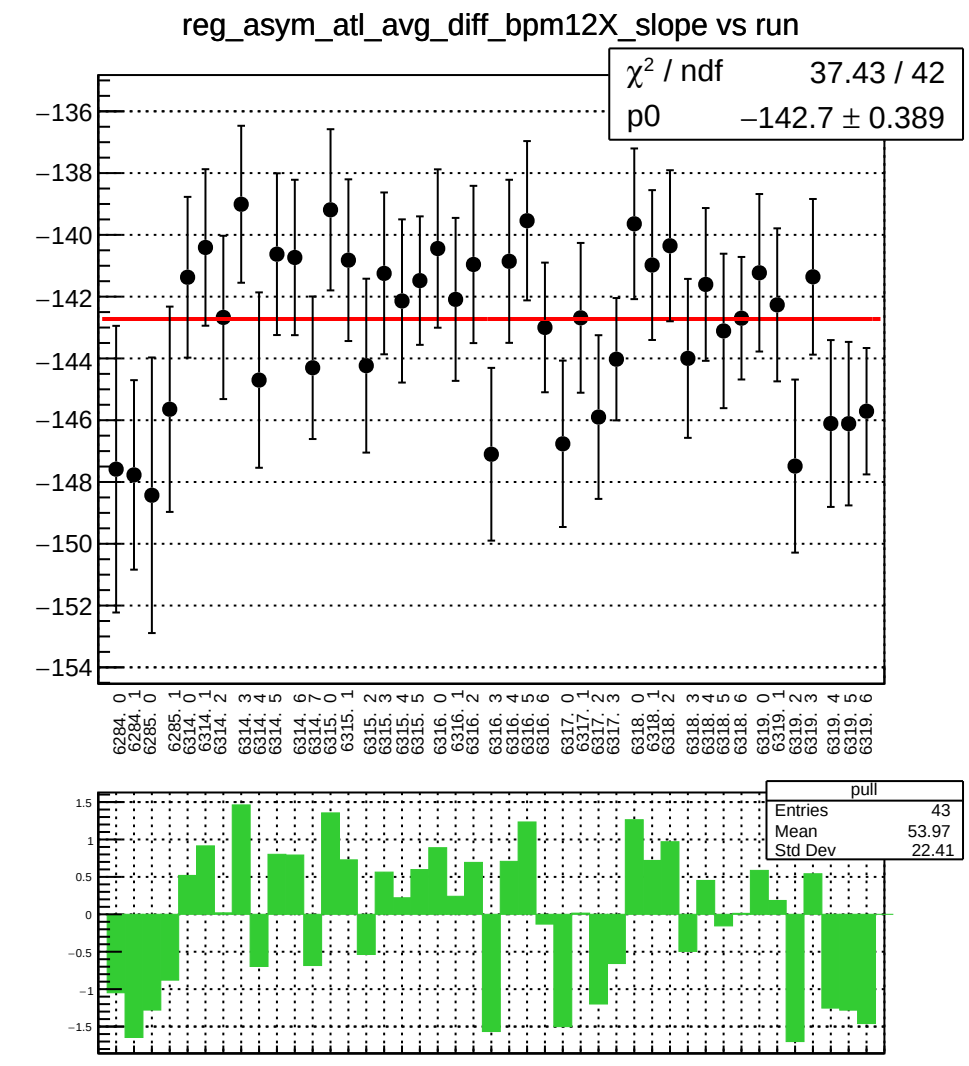

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.9 / 42
p0 24.51 ± 4.023
pull
Entries 43
Mean −85.3
Std Dev 103.9

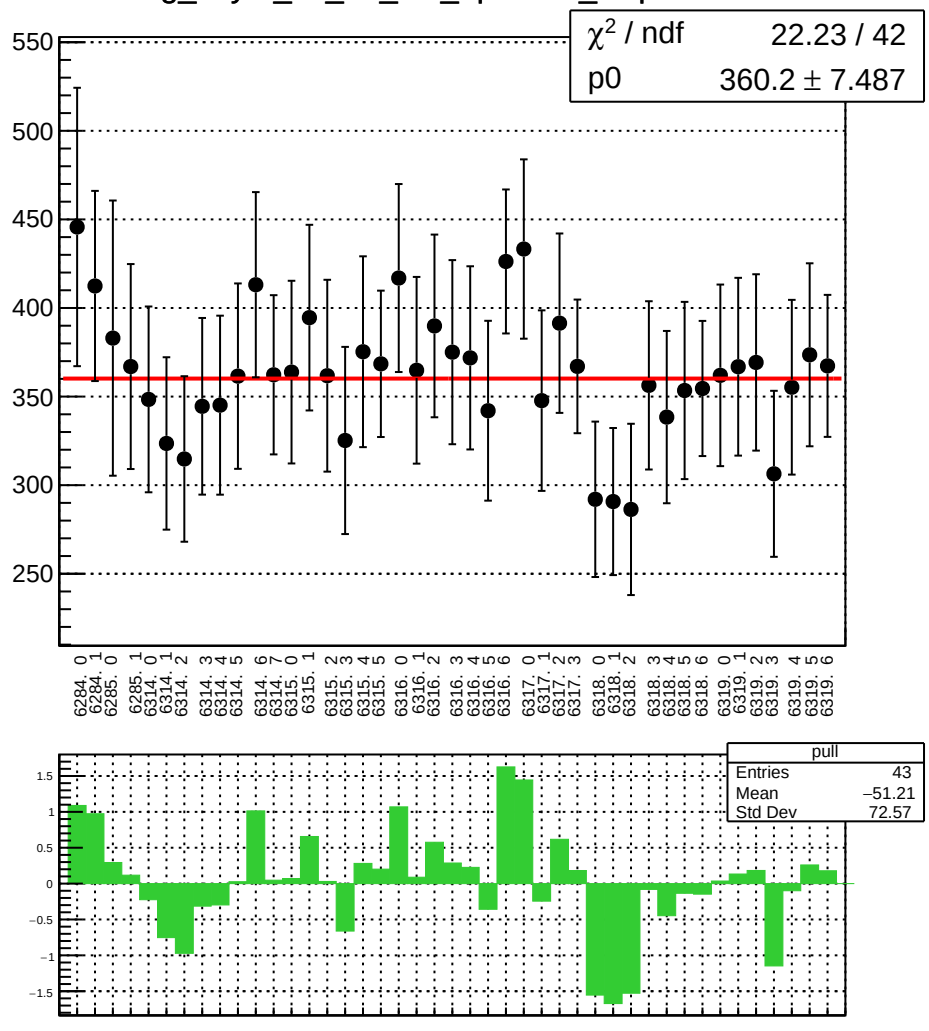

pull1D
Entries 43
Mean −0.05328
Std Dev 0.6609

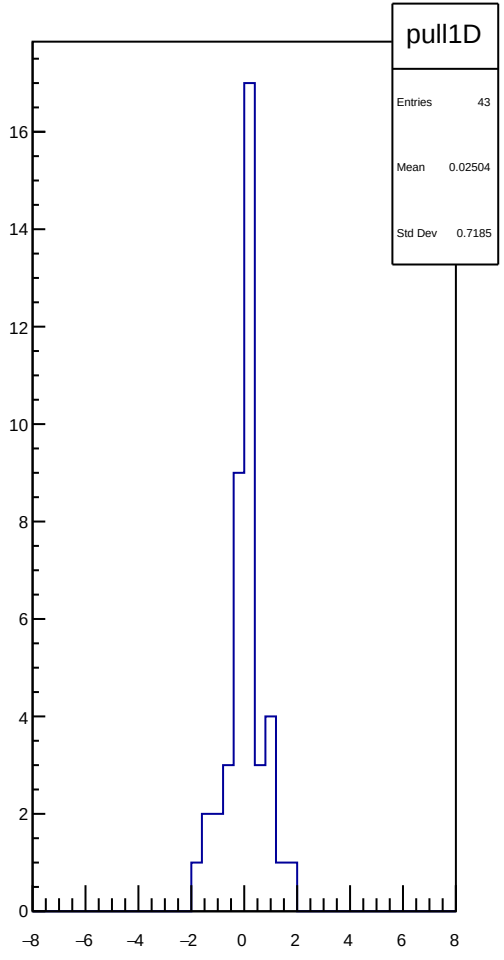

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.55 / 42
p0 467.2 ± 10.17
600
550
500
450
400
350
300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 208.7
Std Dev 189
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.008132
Std Dev 0.7242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

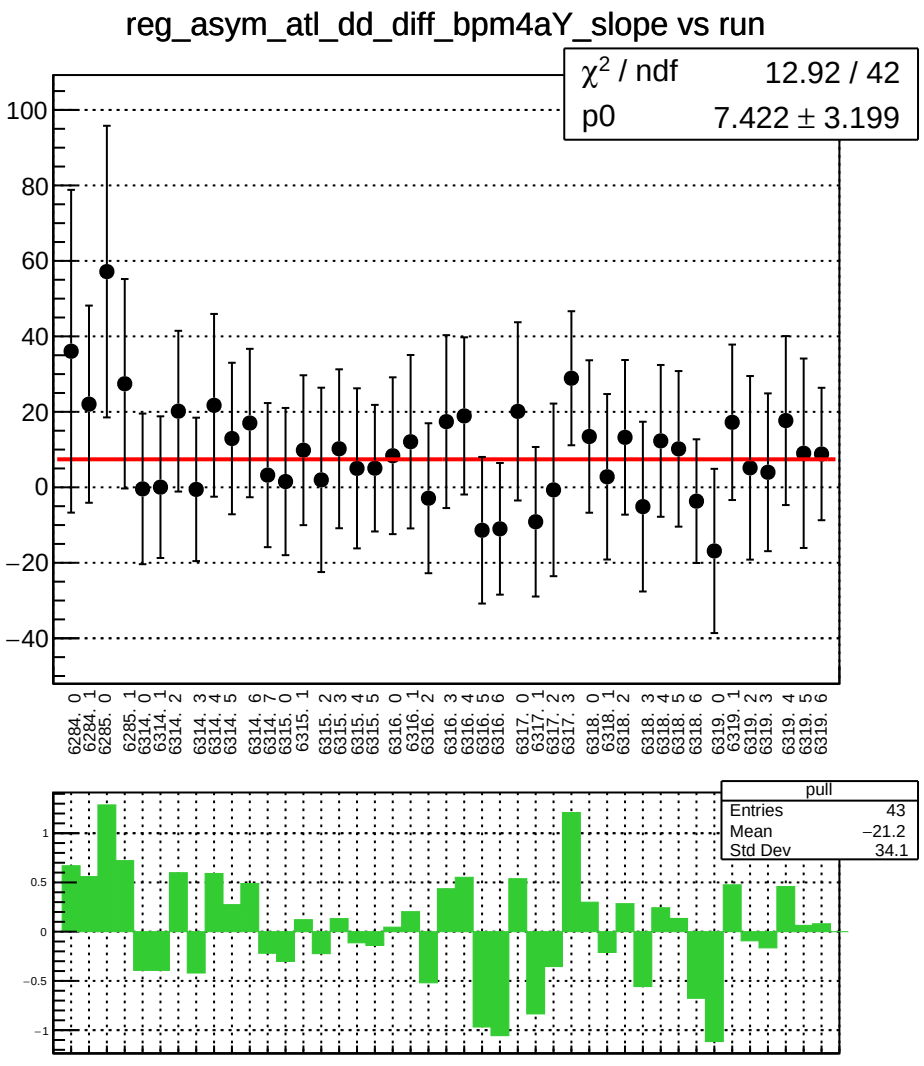

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.46 / 42
p0 15.2 ± 4.943
200
150
100
50
0
−50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −74.98
Std Dev 92.8
3
2.5
2
1.5
1
0.5
0
−0.5
−1

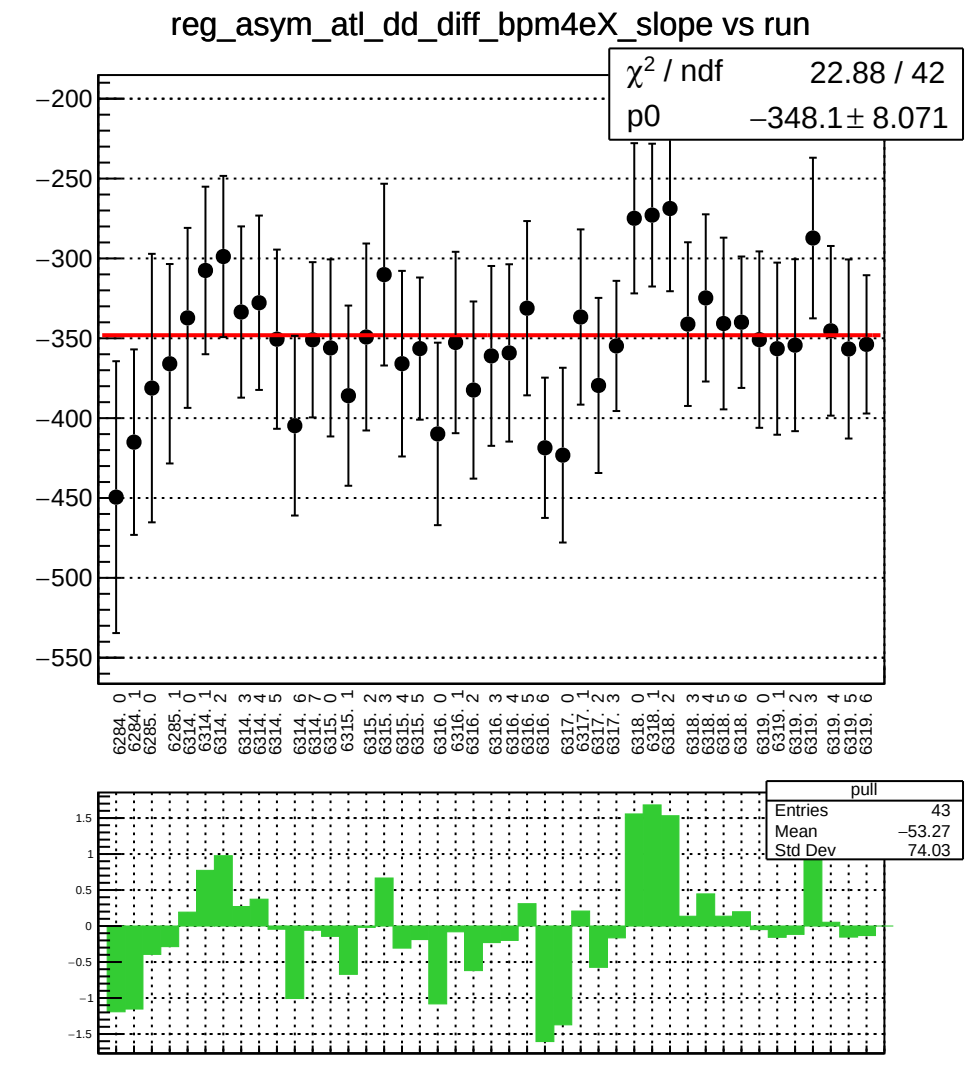

pull1D
Entries 43
Mean 0.07688
Std Dev 0.8788
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

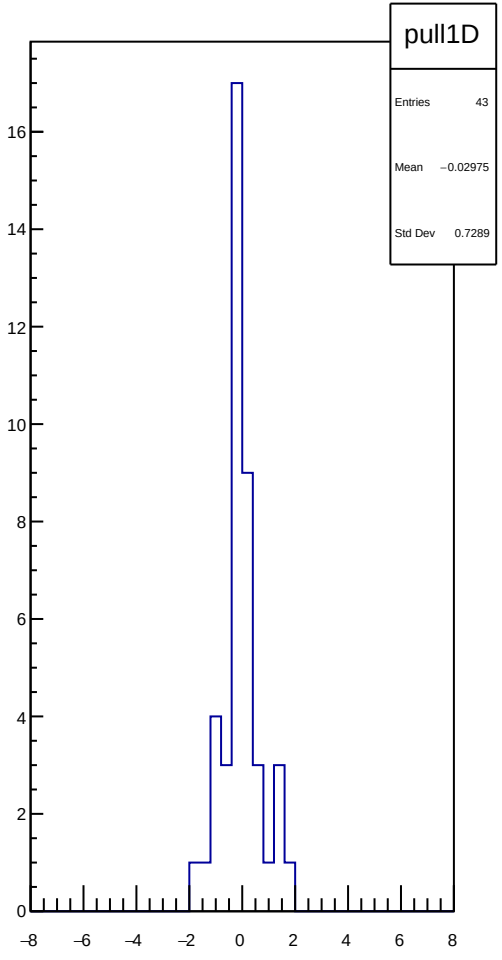

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 37.43 / 42
p0 −142.7 ± 0.389
−136
−138
−140
−142
−144
−146
−148
−150
−152
−154
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 53.97
Std Dev 22.41
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.03904
Std Dev 0.9322
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

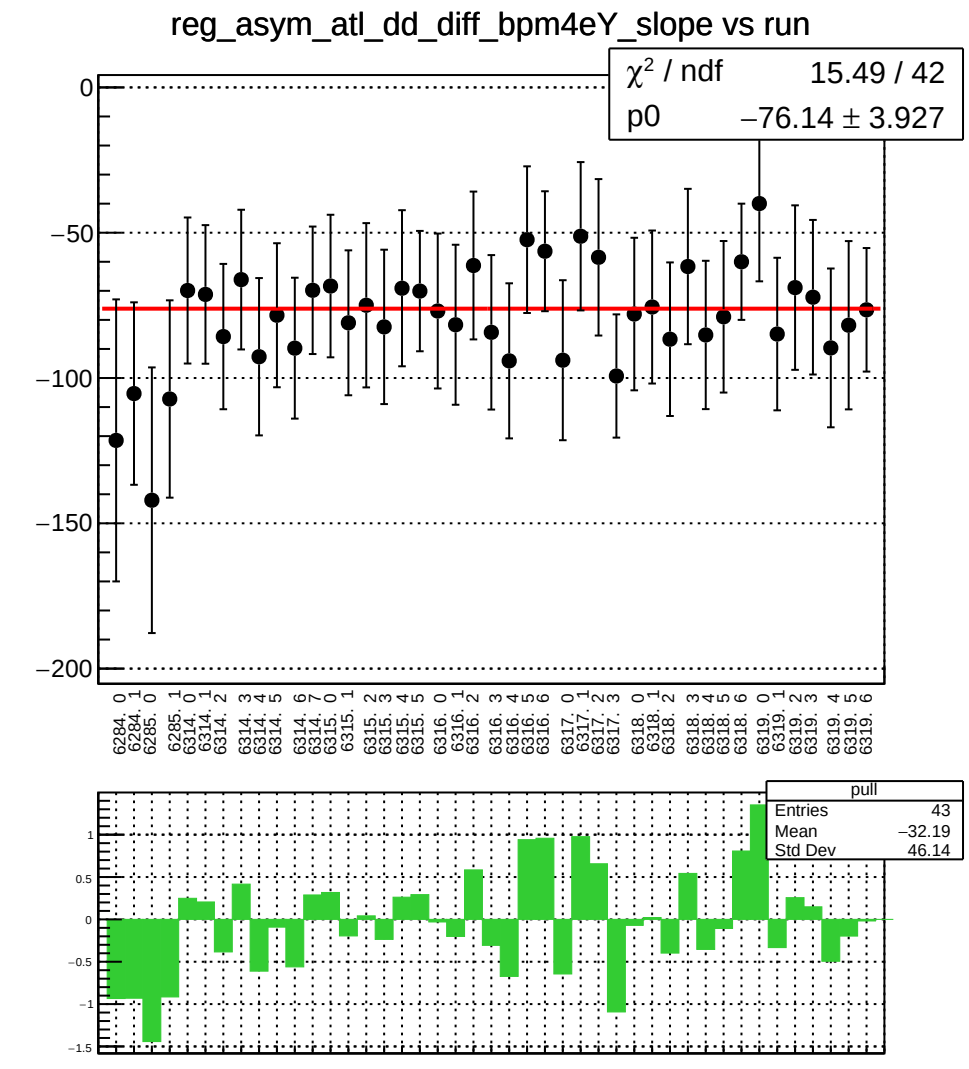

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.23 / 42
p0 360.2 ± 7.487
550
500
450
400
350
300
250
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −51.21
Std Dev 72.57
1.5
1
0.5
0
−0.5
−1
−1.5

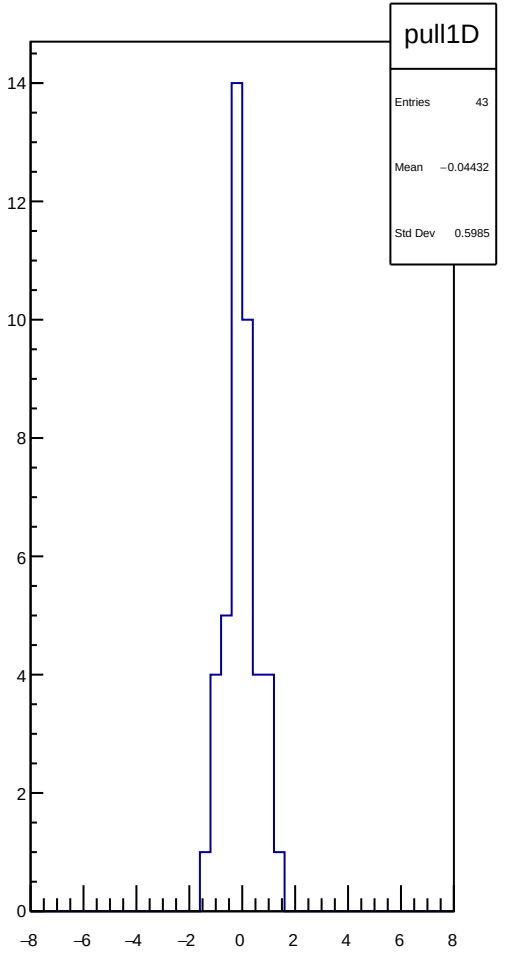

pull1D
Entries 43
Mean 0.02504
Std Dev 0.7185
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

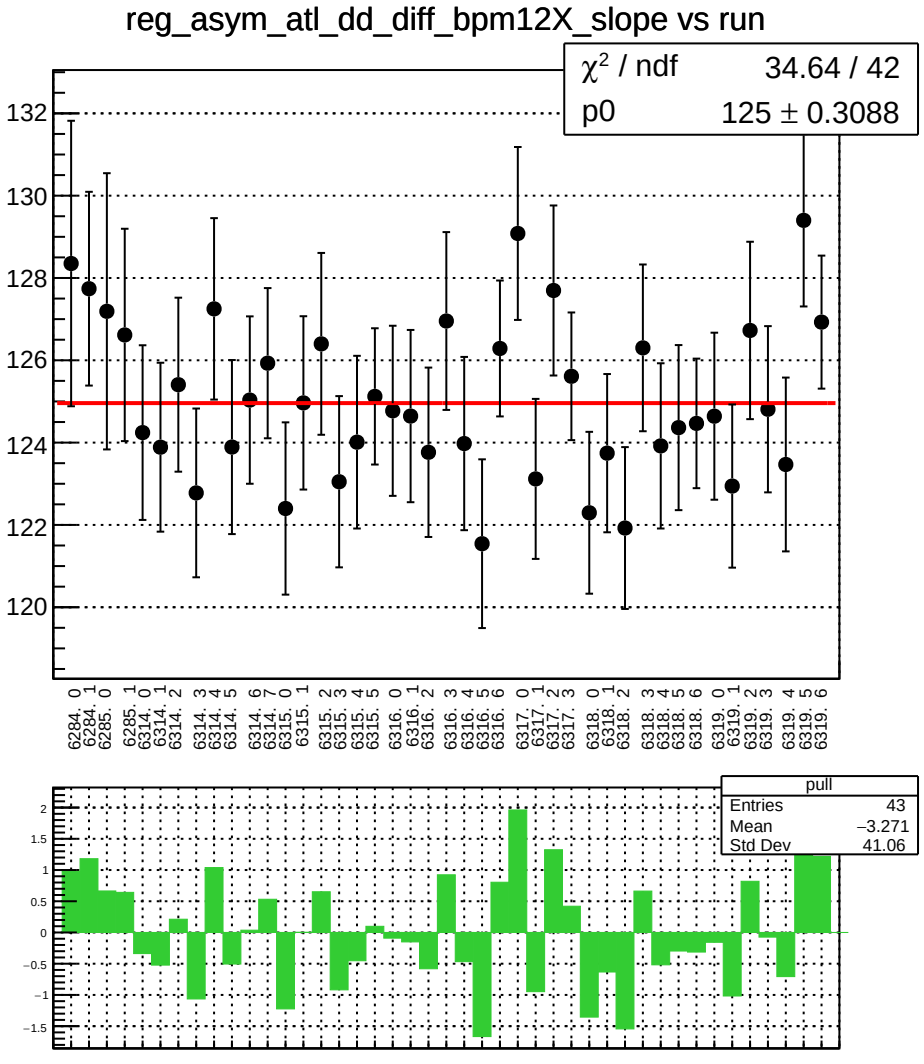

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.92 / 42
p0 7.422 ± 3.199
100
80
60
40
20
0
−20
−40
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −21.2
Std Dev 34.1
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.03987
Std Dev 0.5468
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

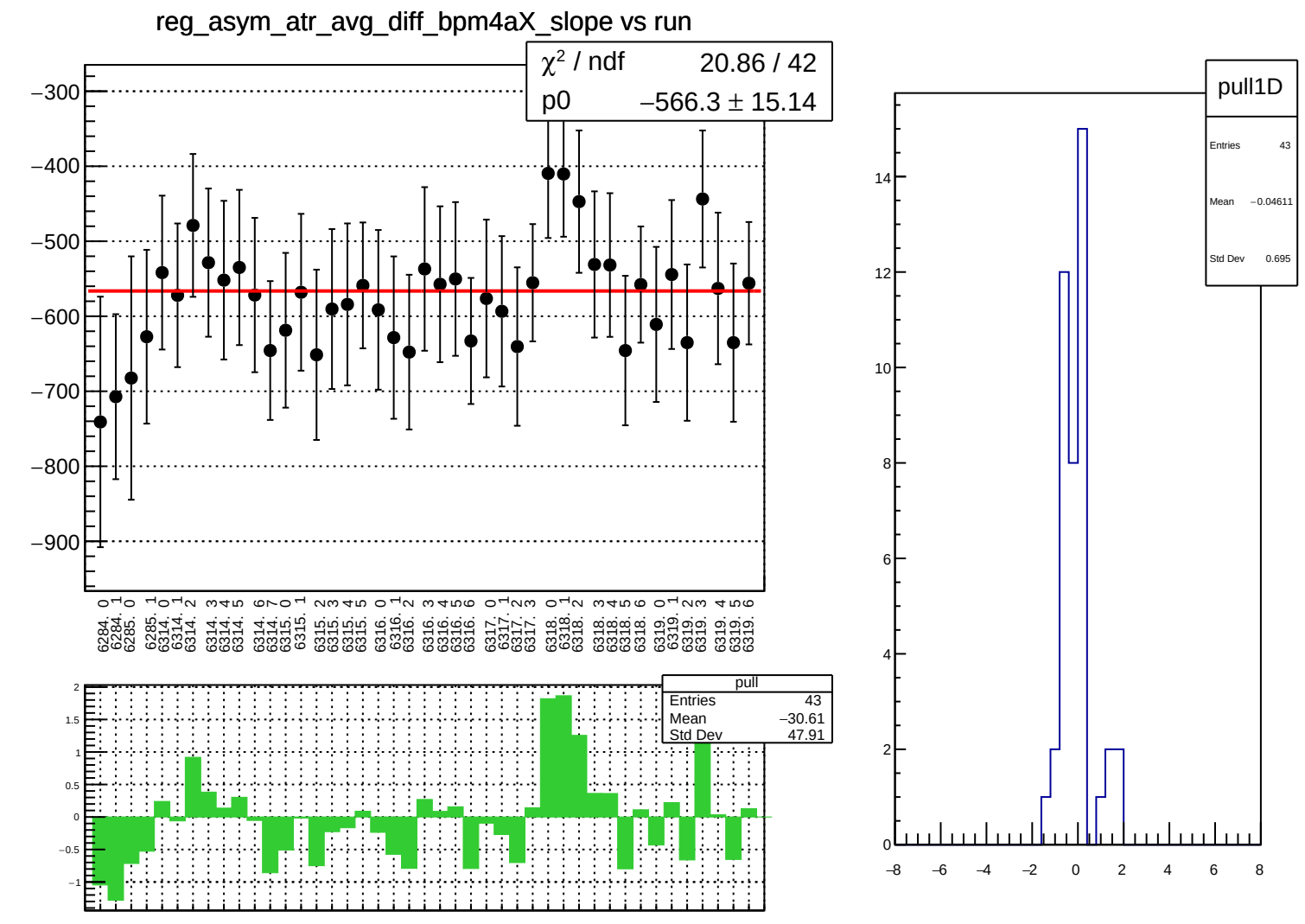

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.88 / 42
p0 −348.1 ± 8.071
−200
−250
−300
−350
−400
−450
−500
−550
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −53.27
Std Dev 74.03
1.5
1
0.5
0
−0.5
−1
−1.5

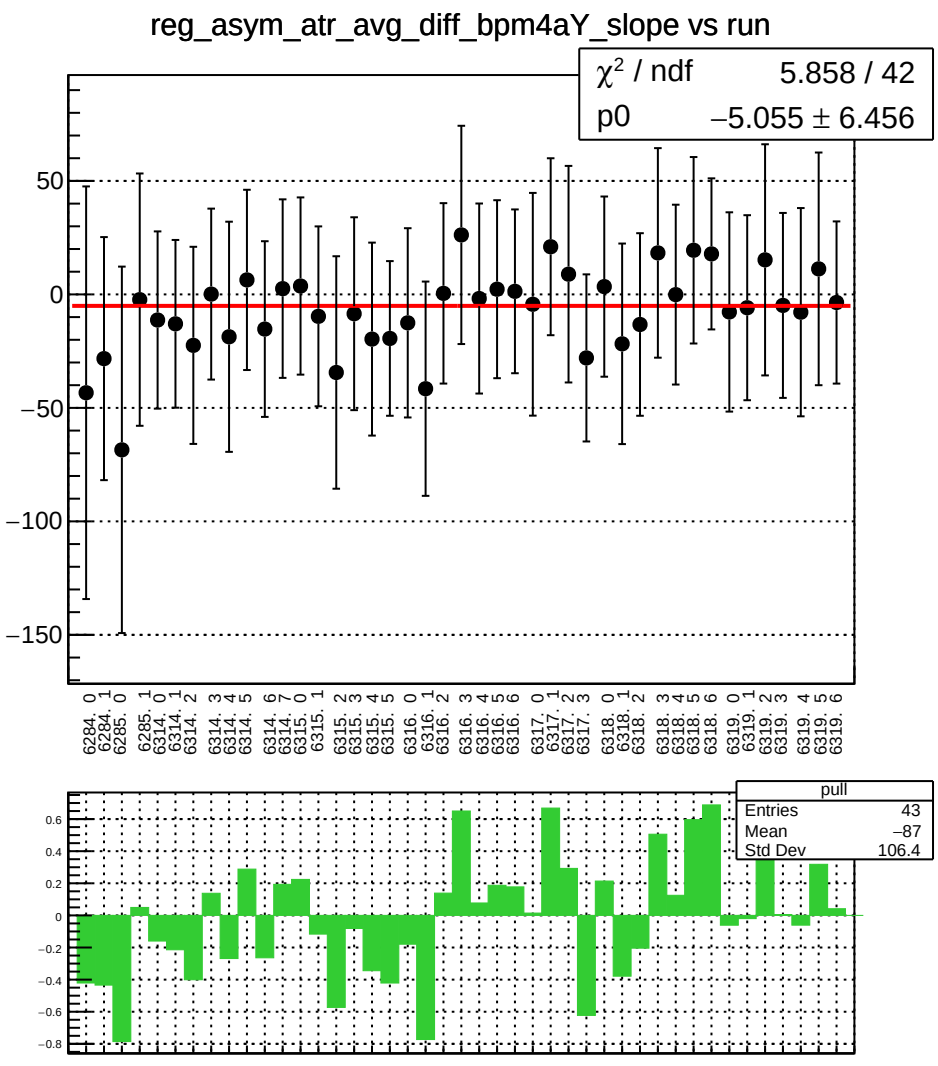

pull1D
Entries 43
Mean −0.02975
Std Dev 0.7289
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

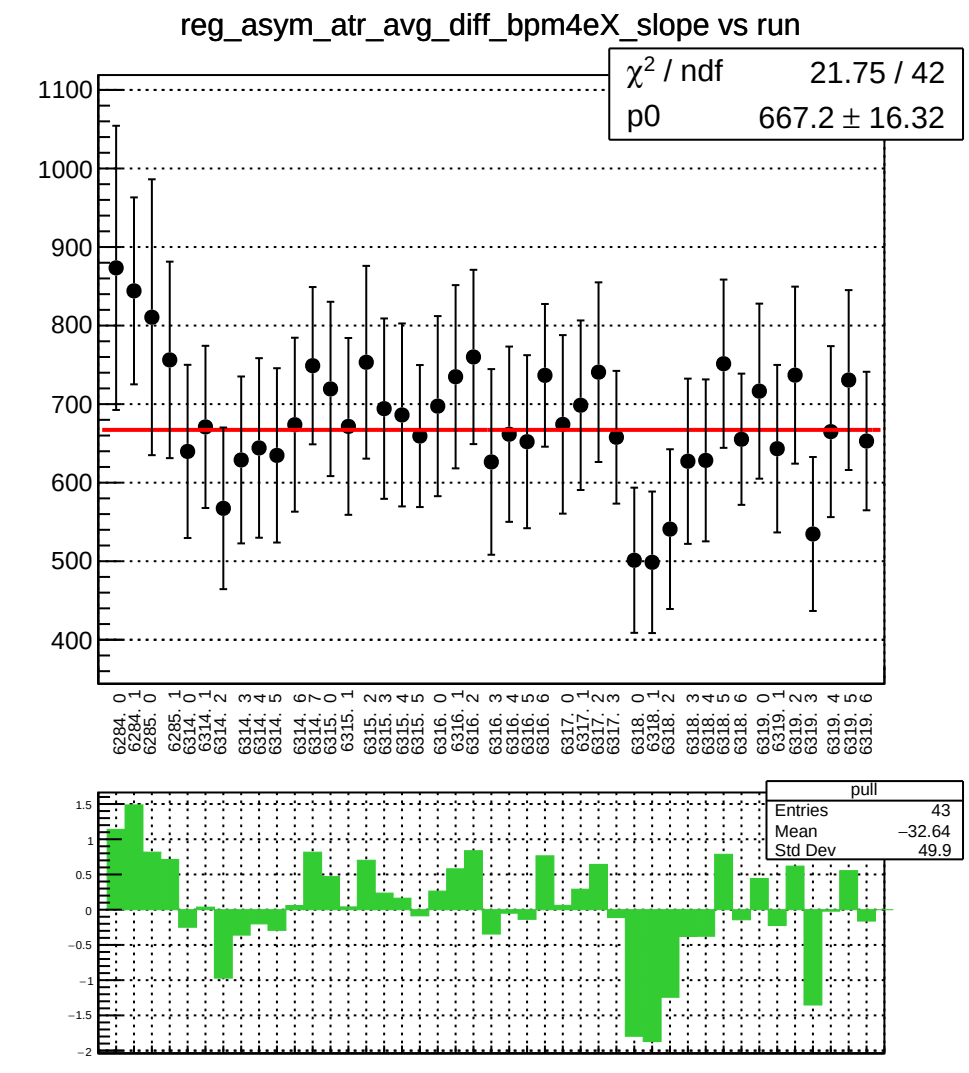

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.49 / 42
p0 −76.14 ± 3.927
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −32.19
Std Dev 46.14
1
0.5
0
−0.5
−1
−1.5

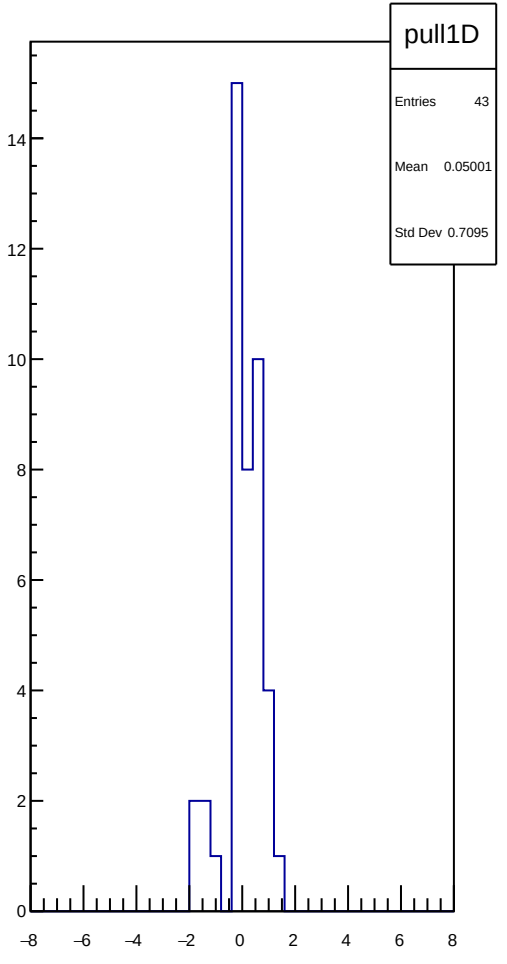

pull1D
Entries 43
Mean −0.04432
Std Dev 0.5985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

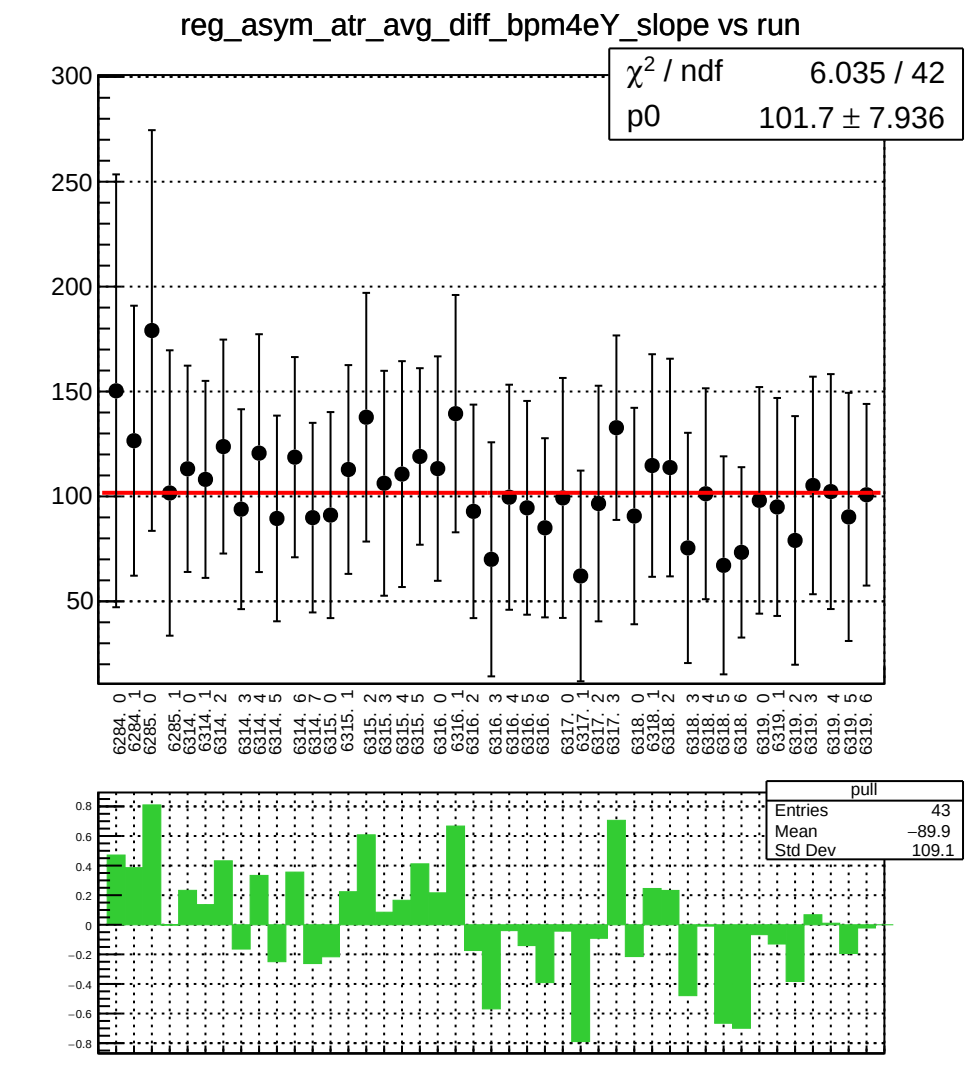

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 34.64 / 42
p0 125 ± 0.3088
132
130
128
126
124
122
120
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −3.271
Std Dev 41.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01754
Std Dev 0.8974
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

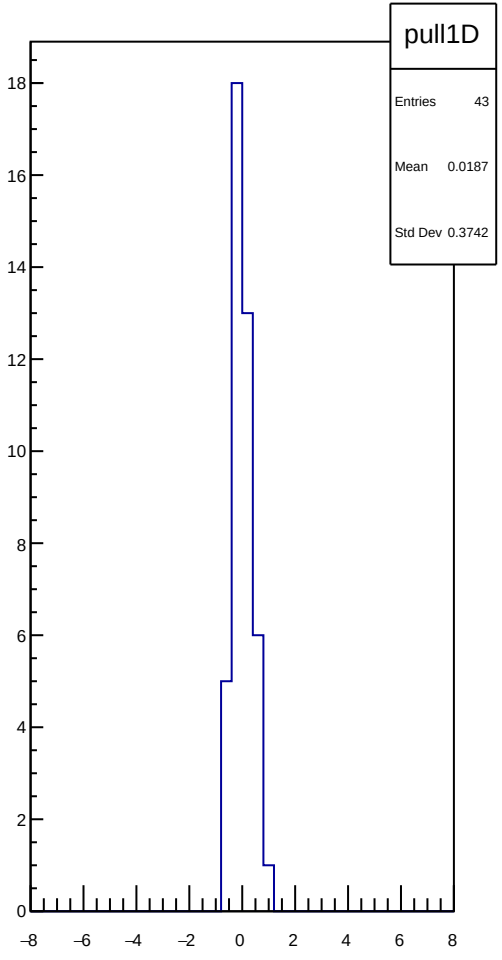

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.86 / 42
p0 −566.3 ± 15.14
−300
−400
−500
−600
−700
−800
−900
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −30.61
Std Dev 47.91
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04611
Std Dev 0.695
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

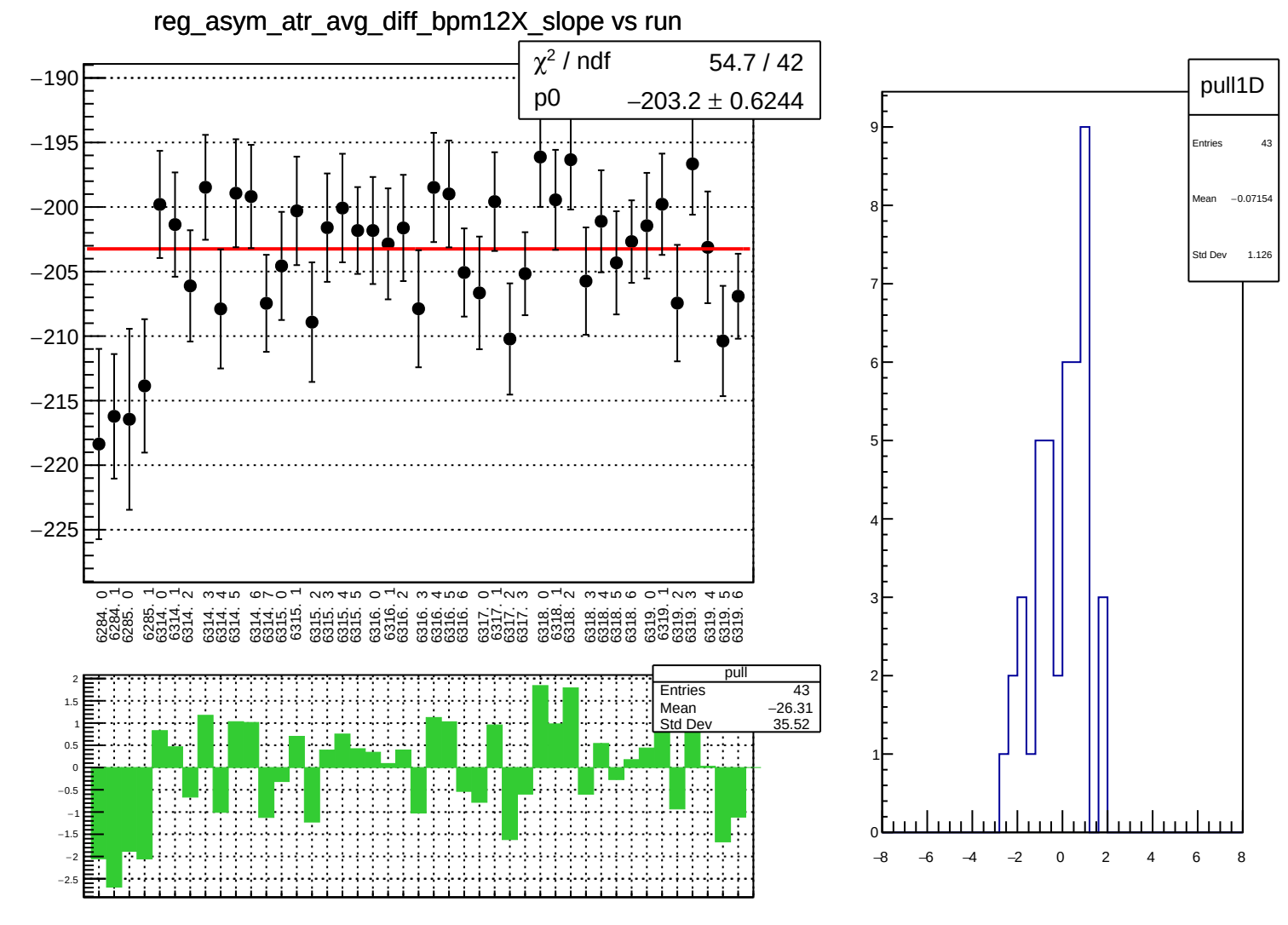

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.858 / 42
p0 −5.055 ± 6.456
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −87
Std Dev 106.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.01838
Std Dev 0.3687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

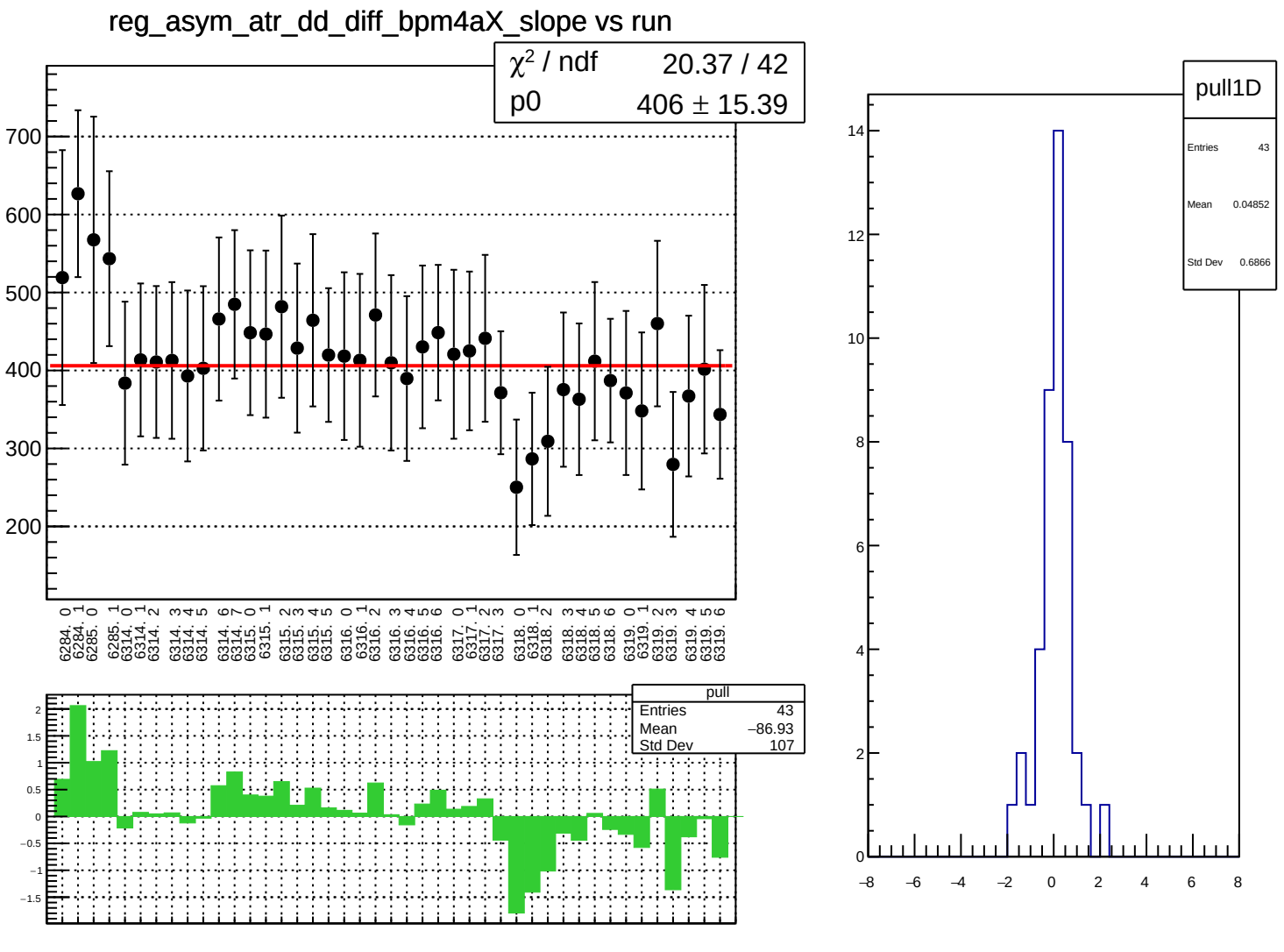

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.75 / 42
p0 667.2 ± 16.32
1100
1000
900
800
700
600
500
400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −32.64
Std Dev 49.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

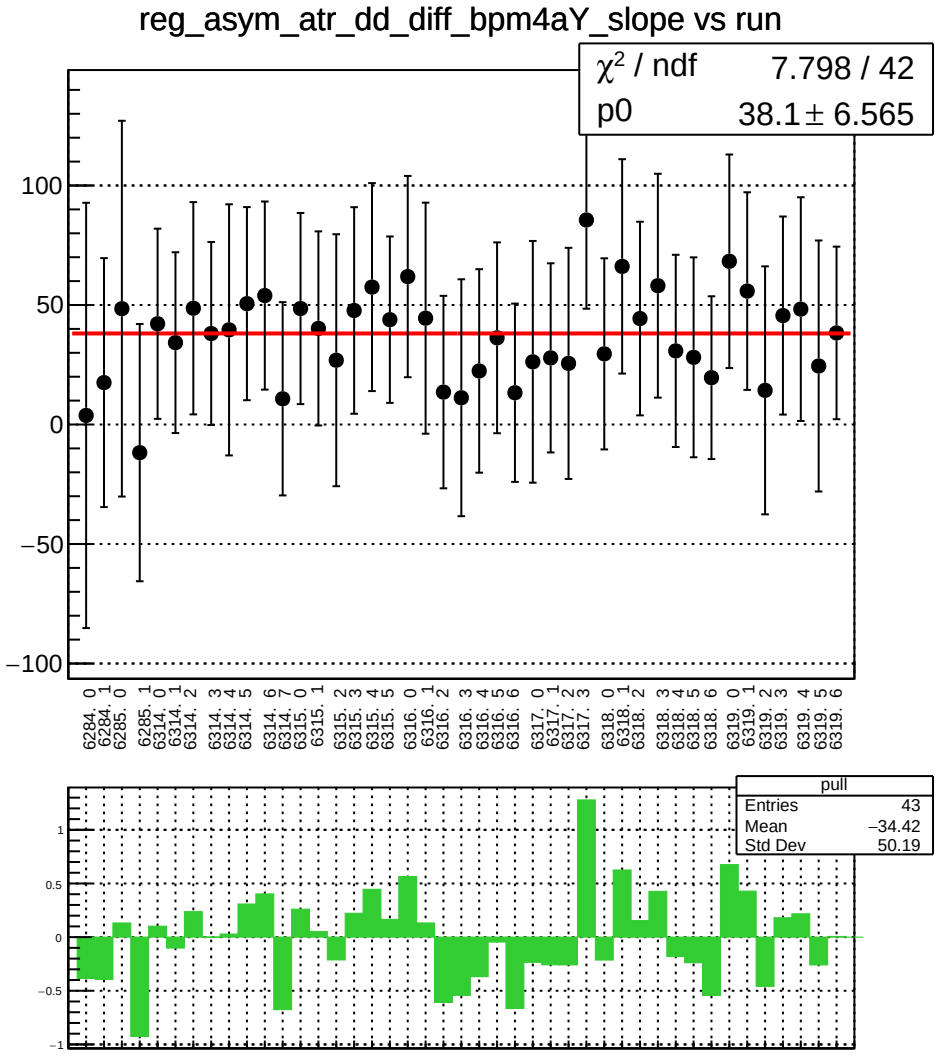

pull1D
Entries 43
Mean 0.05001
Std Dev 0.7095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

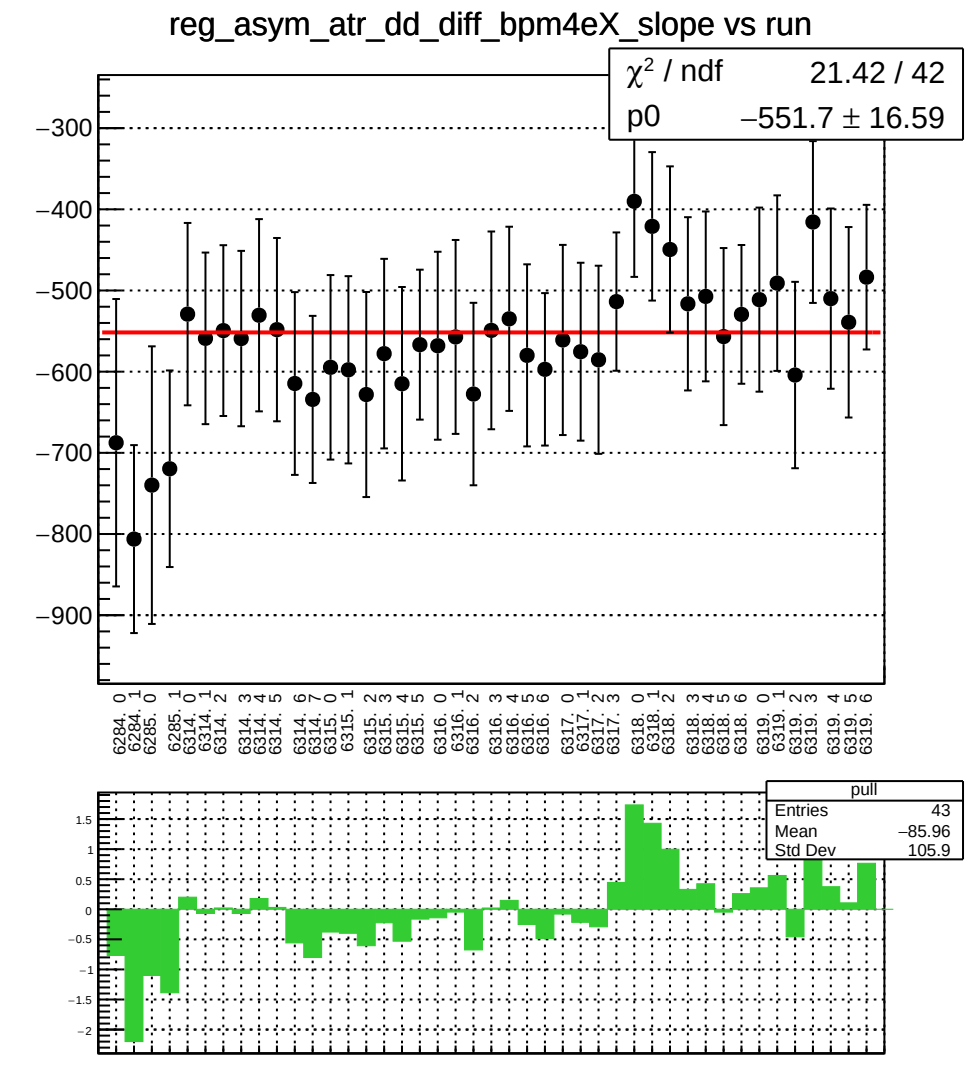

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.035 / 42
p0 101.7 ± 7.936
300
250
200
150
100
50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −89.9
Std Dev 109.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

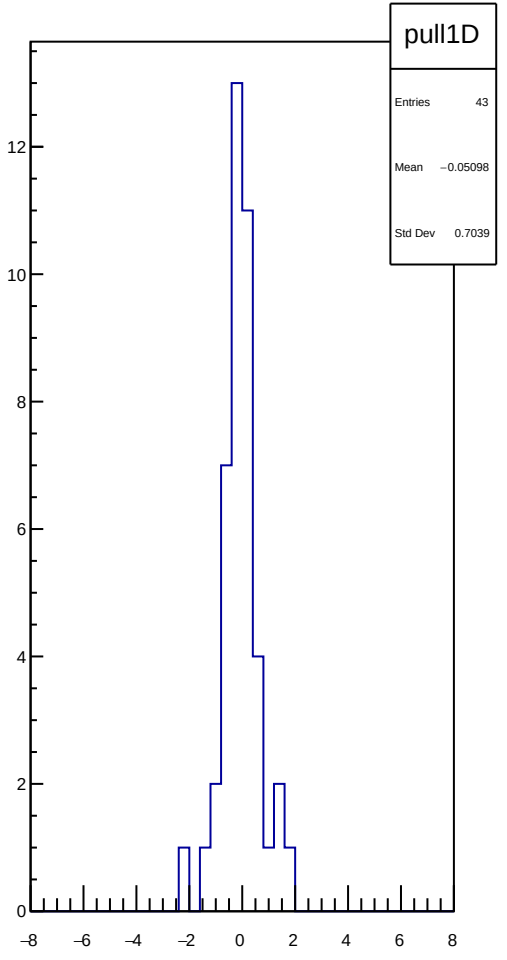

pull1D
Entries 43
Mean 0.0187
Std Dev 0.3742
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

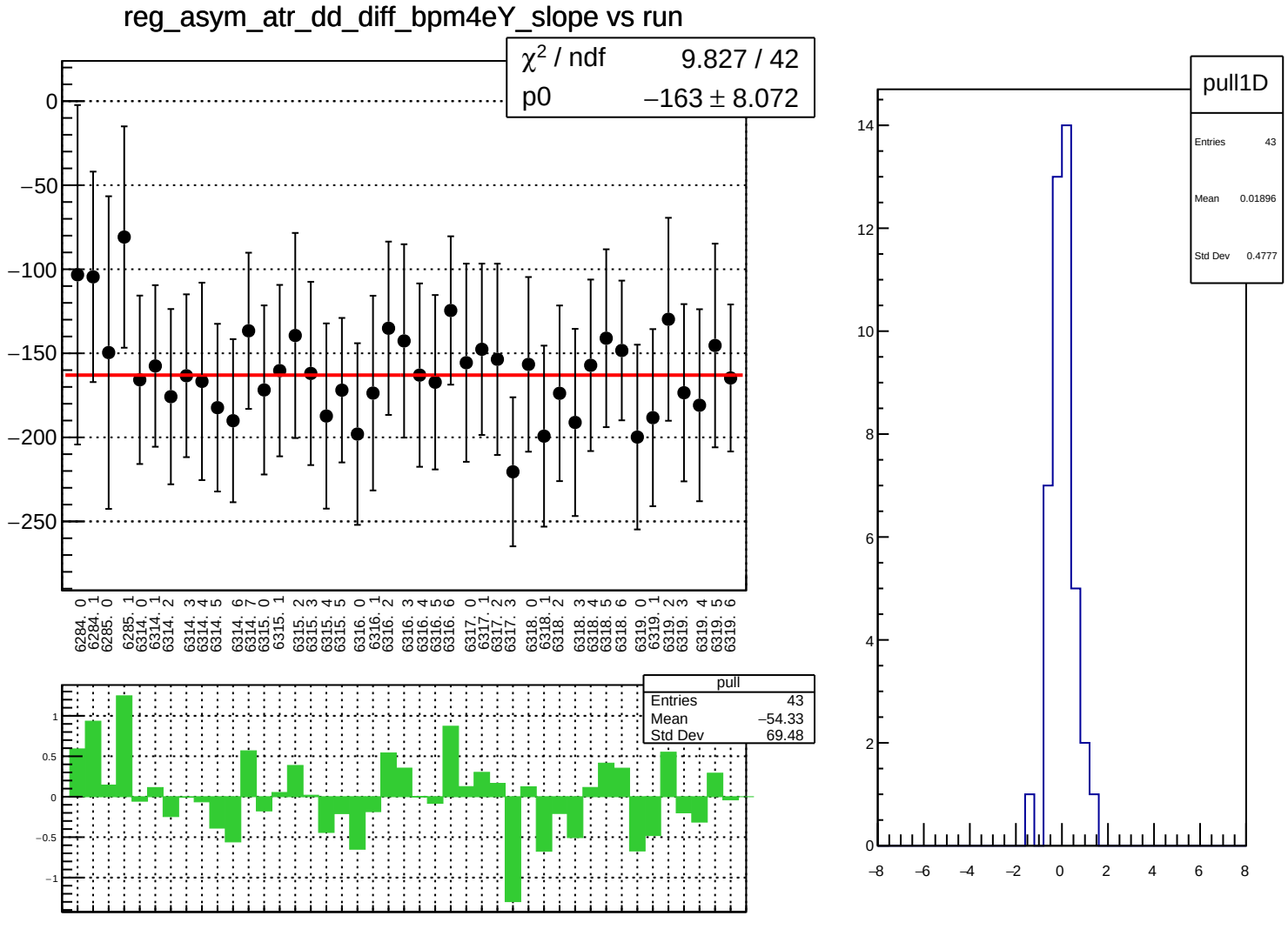

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 54.7 / 42
p0 −203.2 ± 0.6244
−190
−195
−200
−205
−210
−215
−220
−225
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −26.31
Std Dev 35.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.07154
Std Dev 1.126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

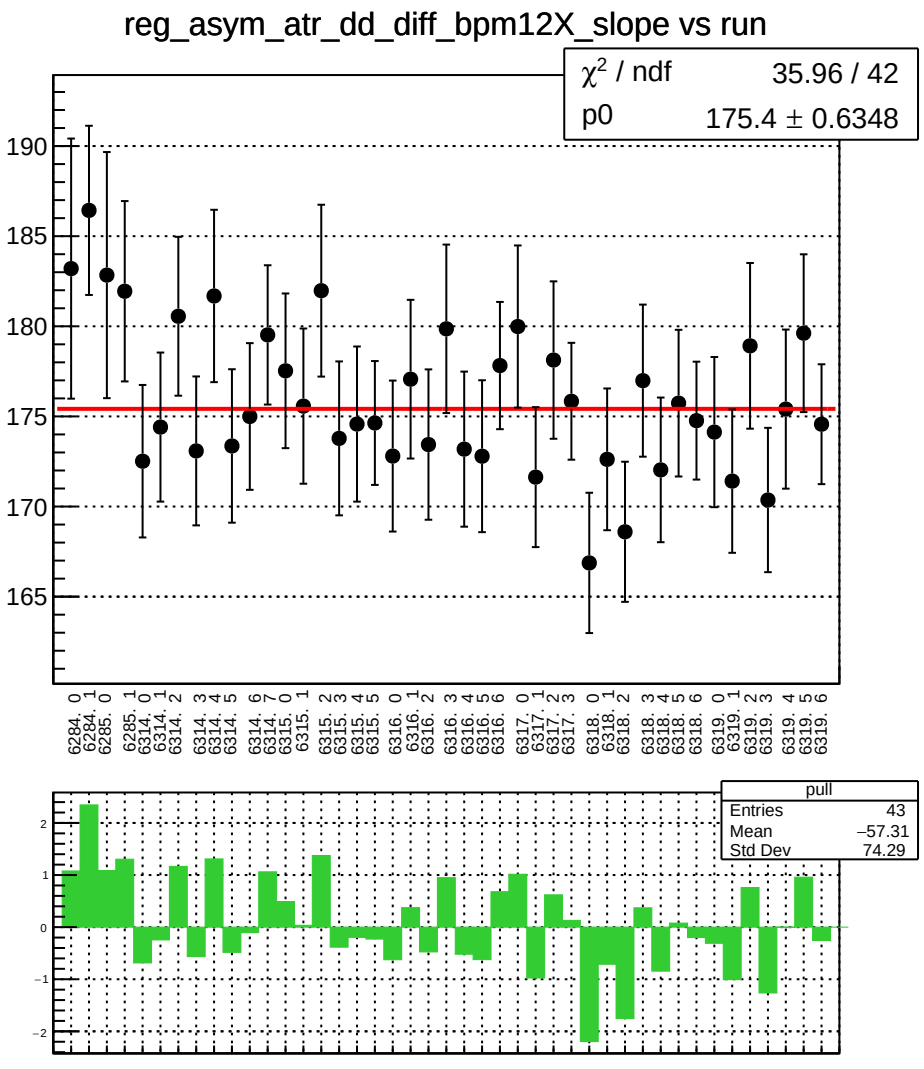

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.37 / 42
p0 406 ± 15.39
700
600
500
400
300
200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −86.93
Std Dev 107
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.04852
Std Dev 0.6866
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

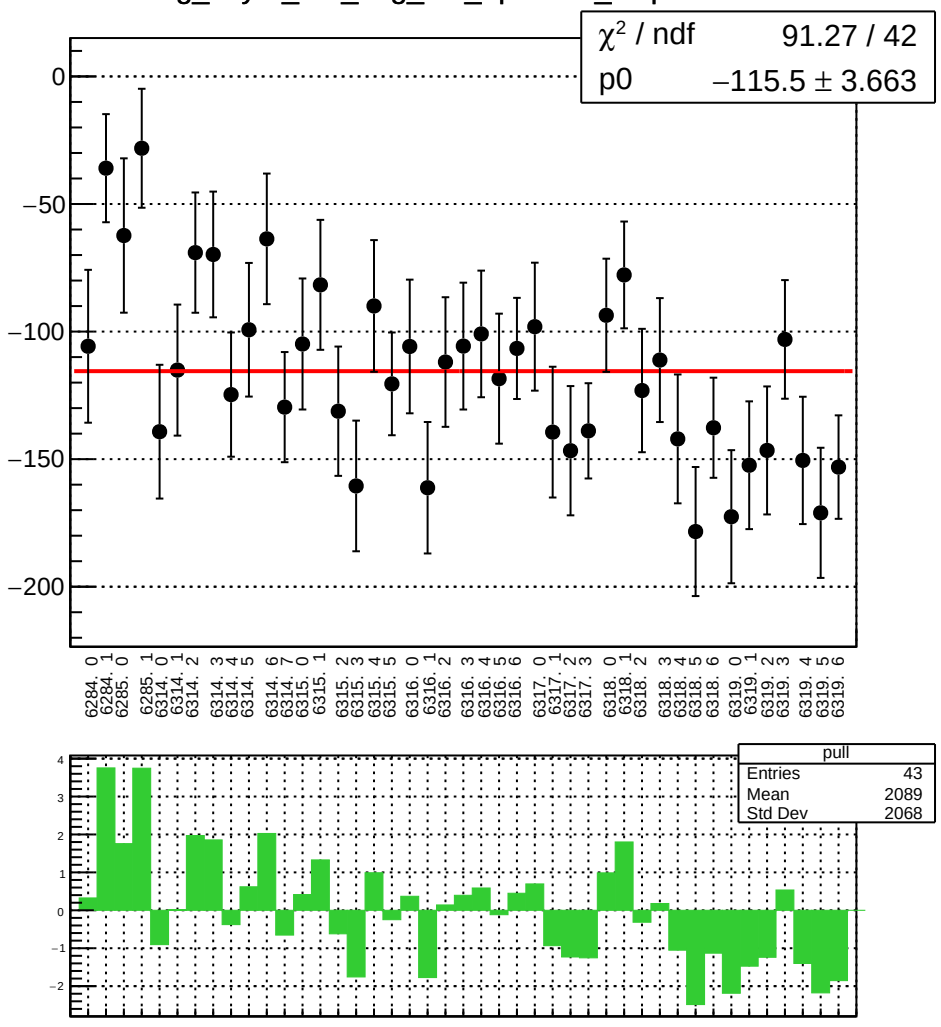

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.798 / 42
p0 38.1 ± 6.565
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −34.42
Std Dev 50.19
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01224
Std Dev 0.4257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

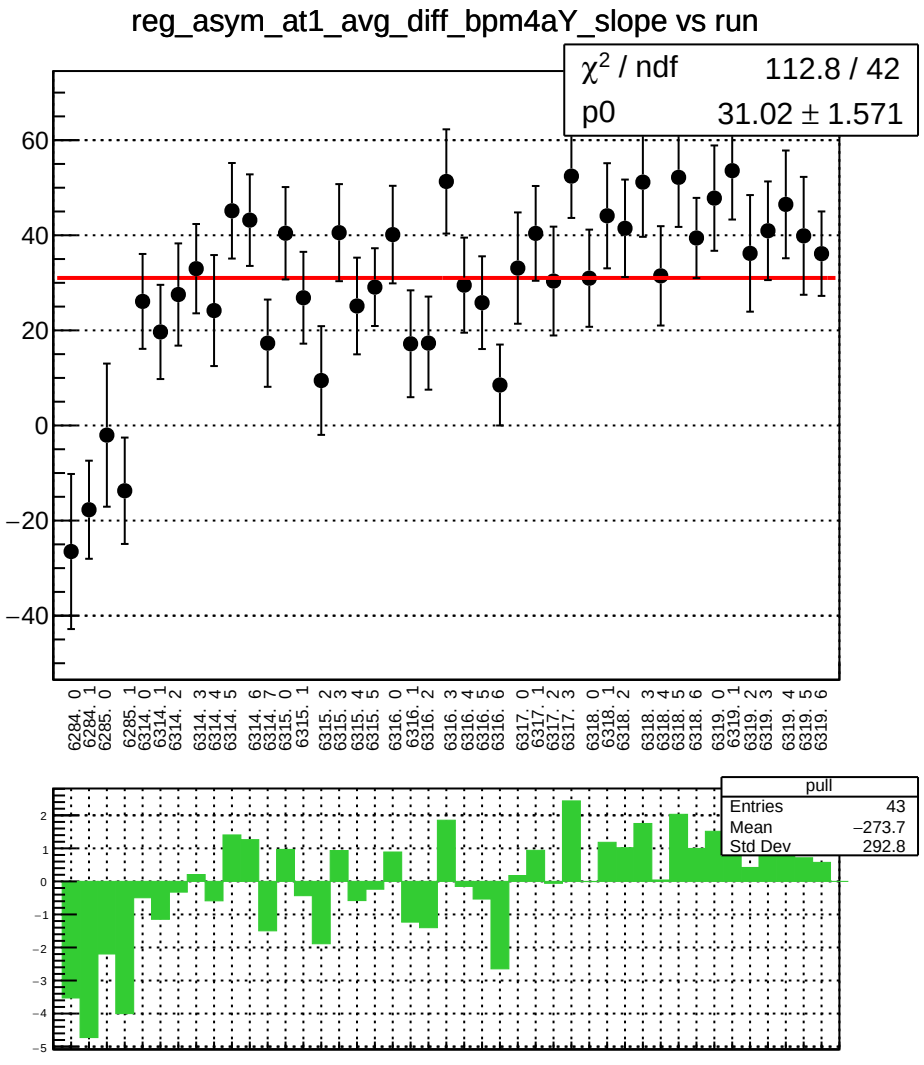

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.42 / 42
p0 −551.7 ± 16.59
−300
−400
−500
−600
−700
−800
−900
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −85.96
Std Dev 105.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

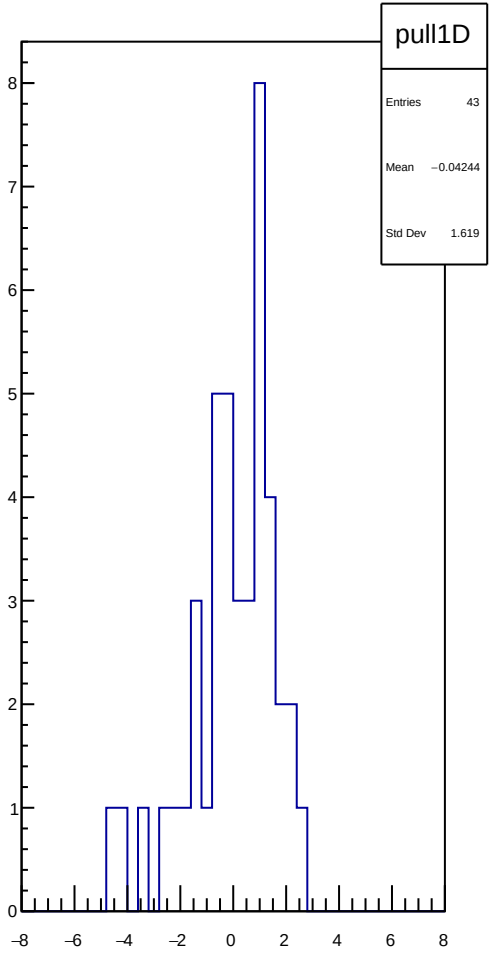

pull1D
Entries 43
Mean −0.05098
Std Dev 0.7039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

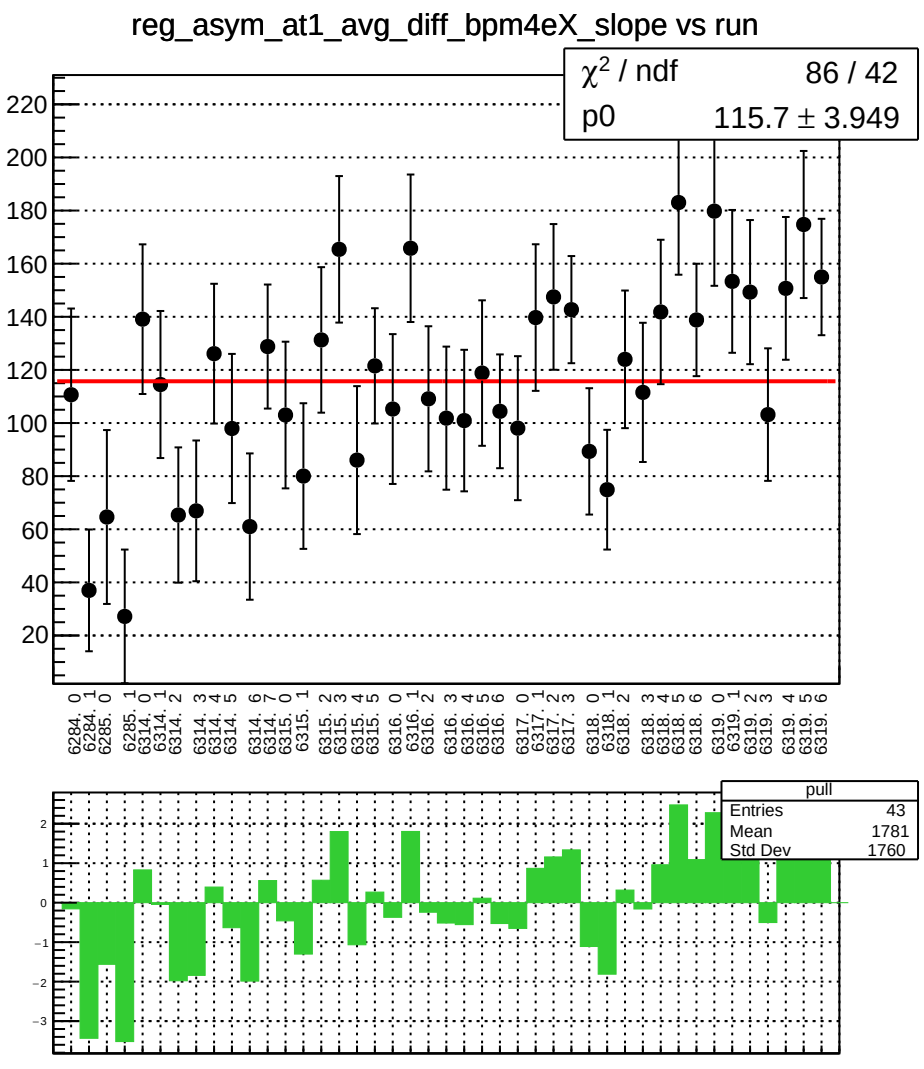

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.827 / 42
p0 −163 ± 8.072
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −54.33
Std Dev 69.48
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01896
Std Dev 0.4777
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

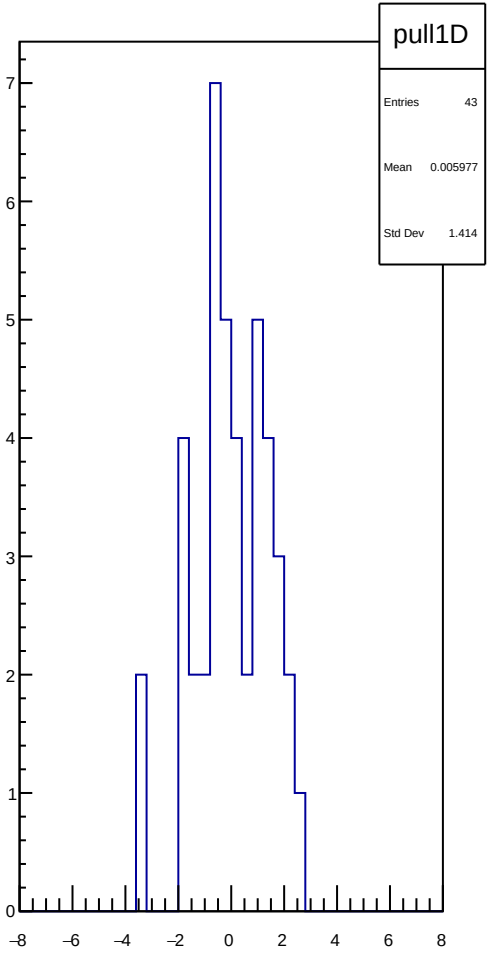

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 35.96 / 42
p0 175.4 ± 0.6348
190
185
180
175
170
165
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −57.31
Std Dev 74.29
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05874
Std Dev 0.9126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

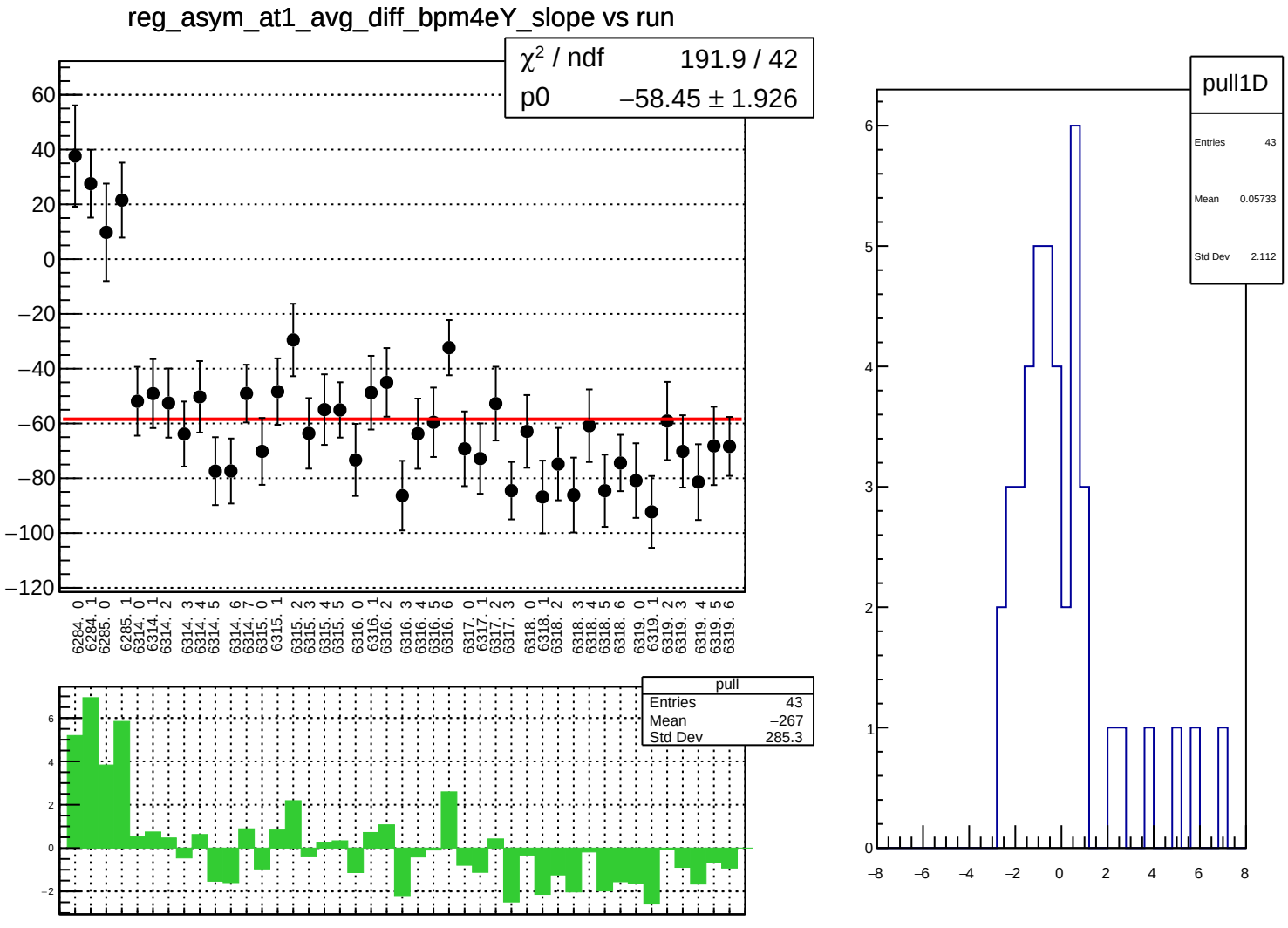

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 91.27 / 42
p0 −115.5 ± 3.663
0
−50
−100
−150
−200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 2089
Std Dev 2068
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005328
Std Dev 1.457
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

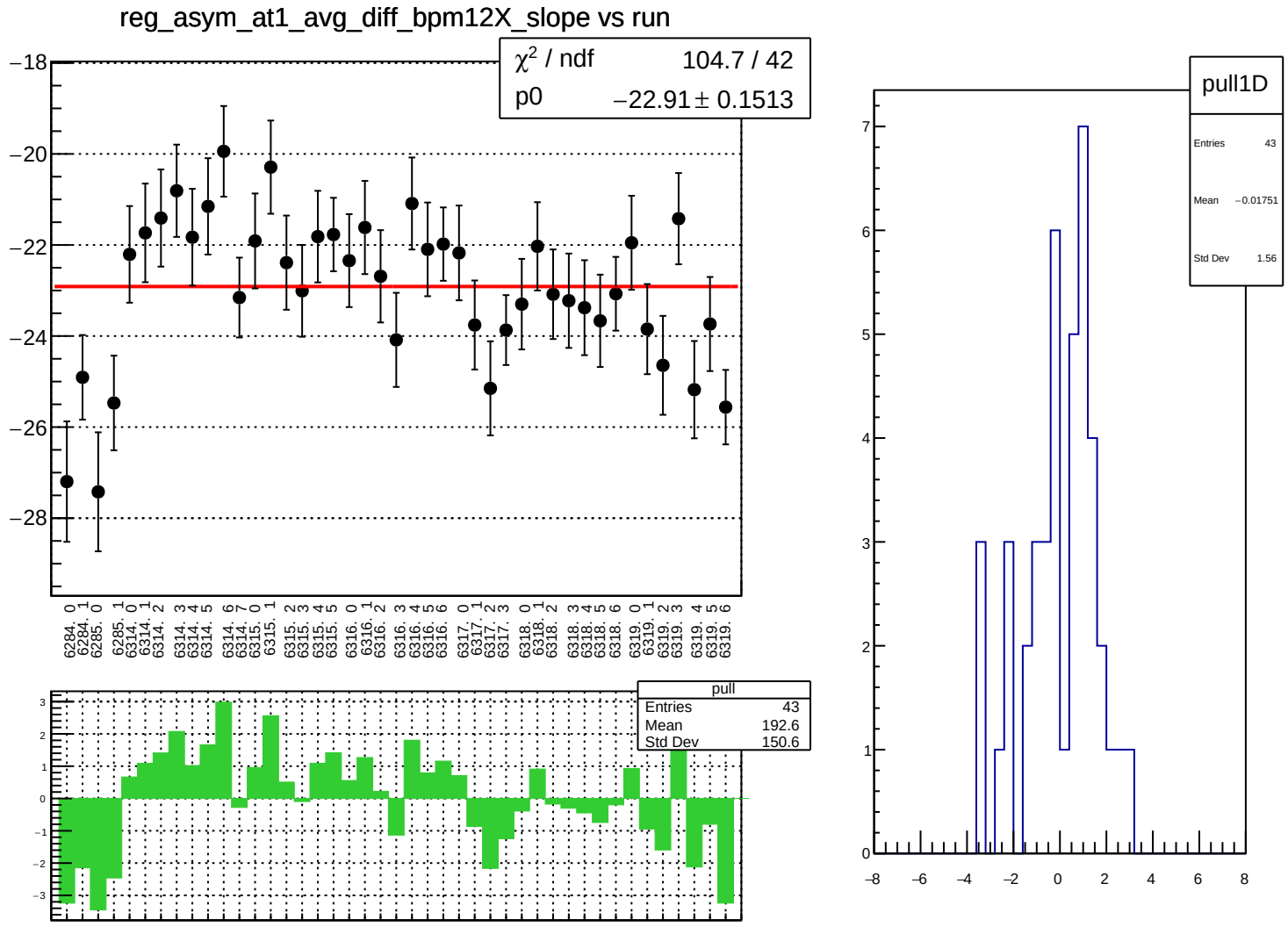

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 112.8 / 42
p0 31.02 ± 1.571
60
40
20
0
−20
−40
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −273.7
Std Dev 292.8
2
1
0
−1
−2
−3
−4
−5

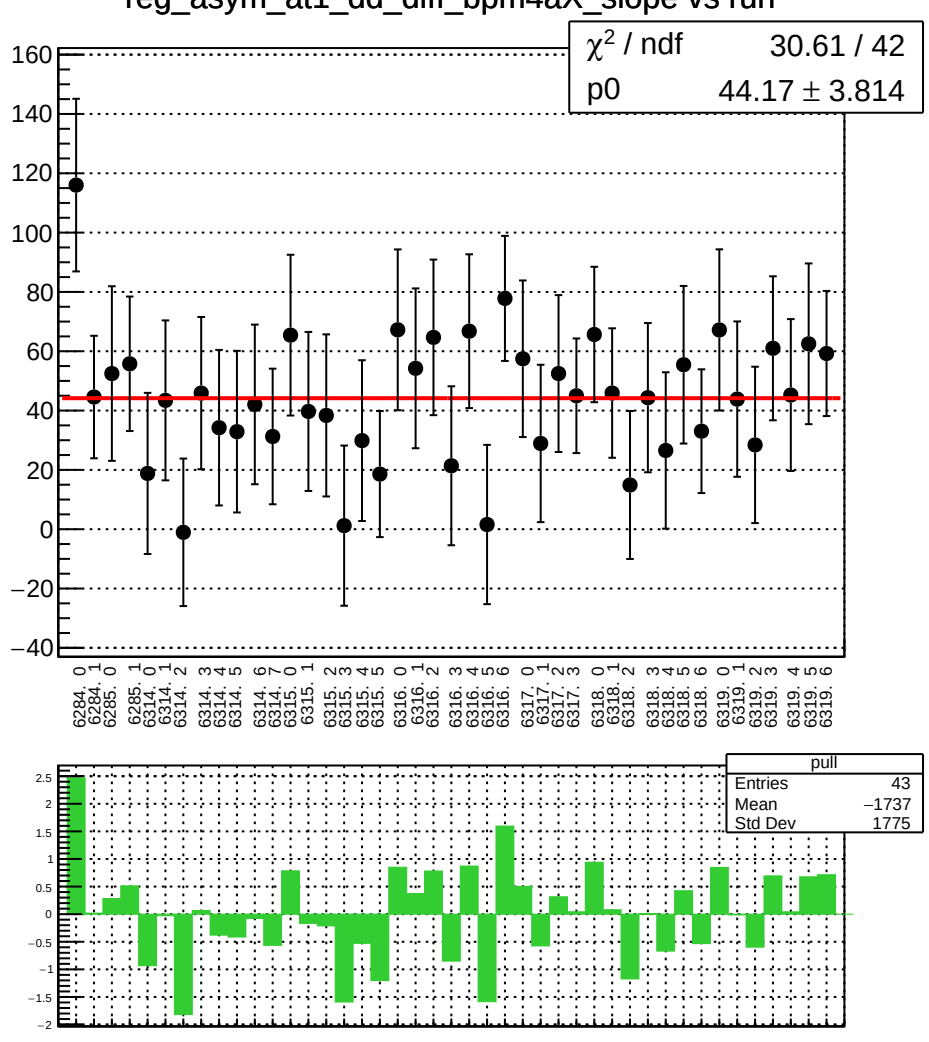

pull1D
Entries 43
Mean −0.04244
Std Dev 1.619
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

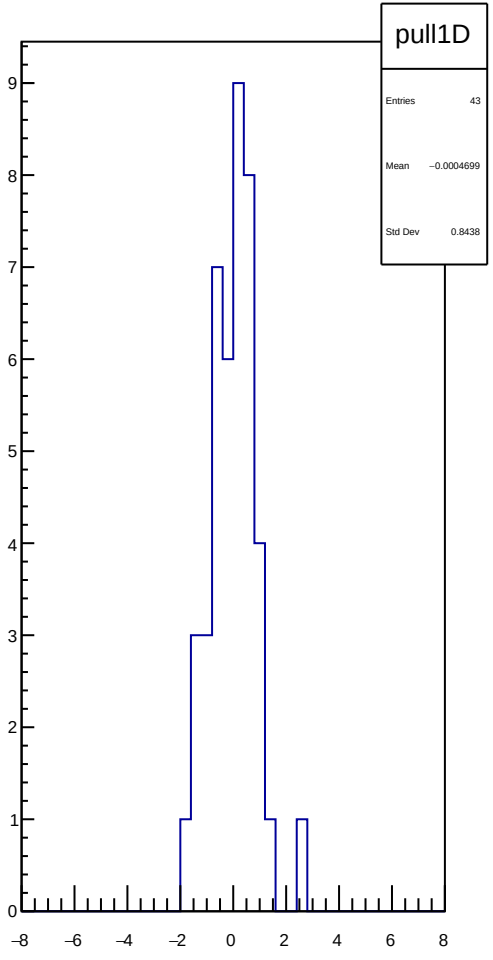

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 86 / 42
p0 115.7 ± 3.949
pull
Entries 43
Mean 1781
Std Dev 1760

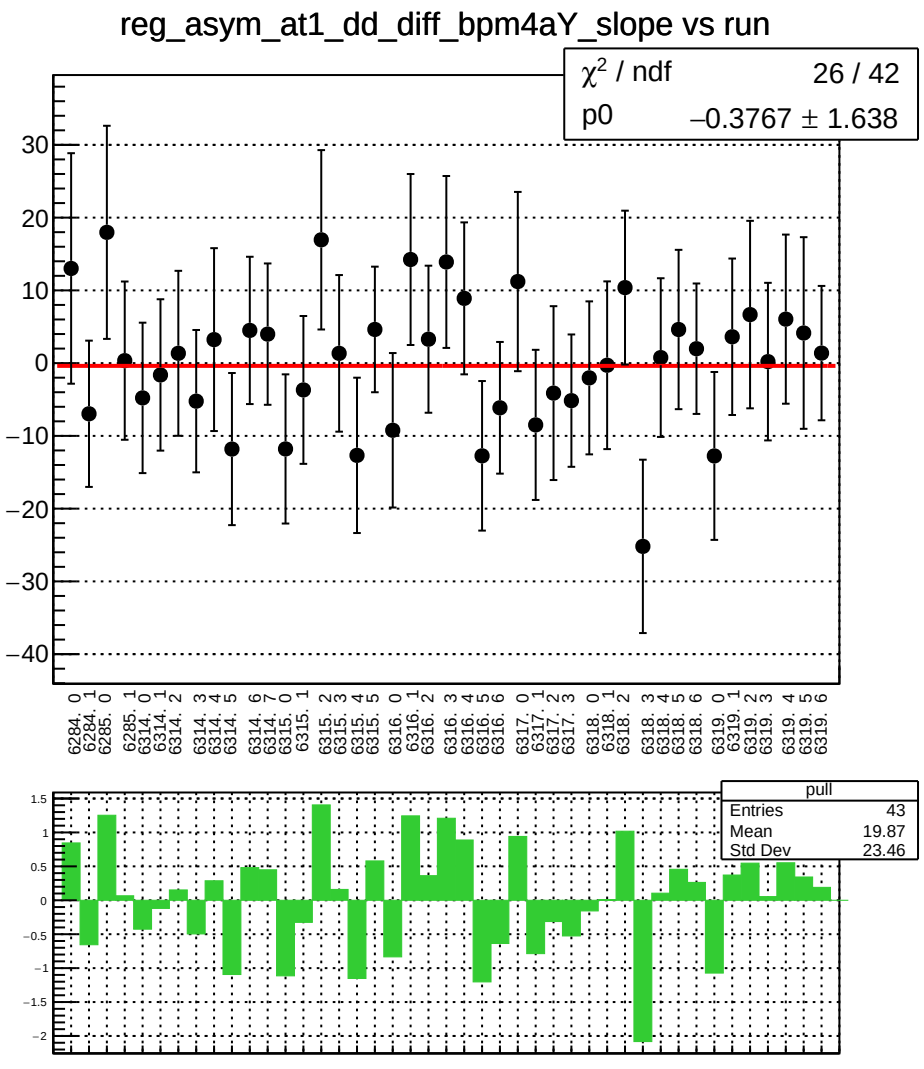

pull1D
Entries 43
Mean 0.005977
Std Dev 1.414

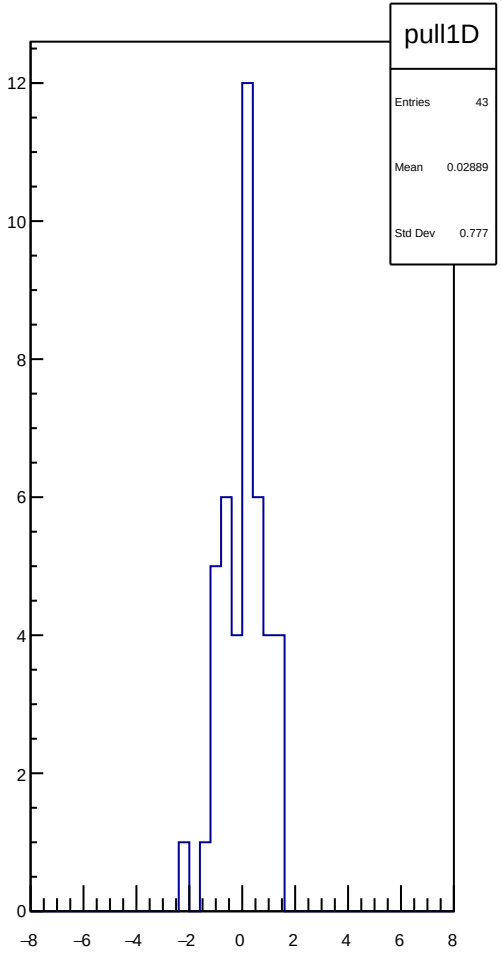

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 191.9 / 42
p0 −58.45 ± 1.926
60
40
20
0
−20
−40
−60
−80
−100
−120
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −267
Std Dev 285.3
6
4
2
0
−2
pull1D
Entries 43
Mean 0.05733
Std Dev 2.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

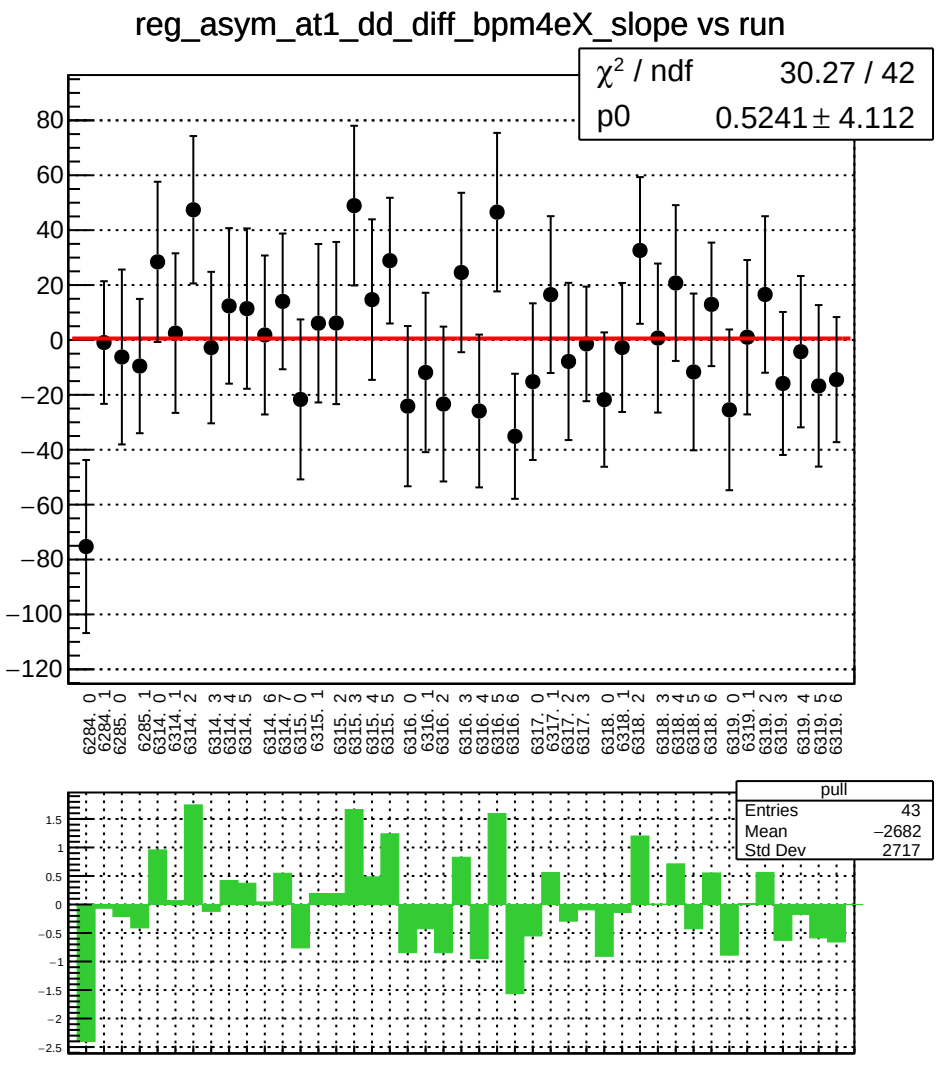

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 104.7 / 42
p0 −22.91 ± 0.1513
−18
−20
−22
−24
−26
−28
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 192.6
Std Dev 150.6
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01751
Std Dev 1.56
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

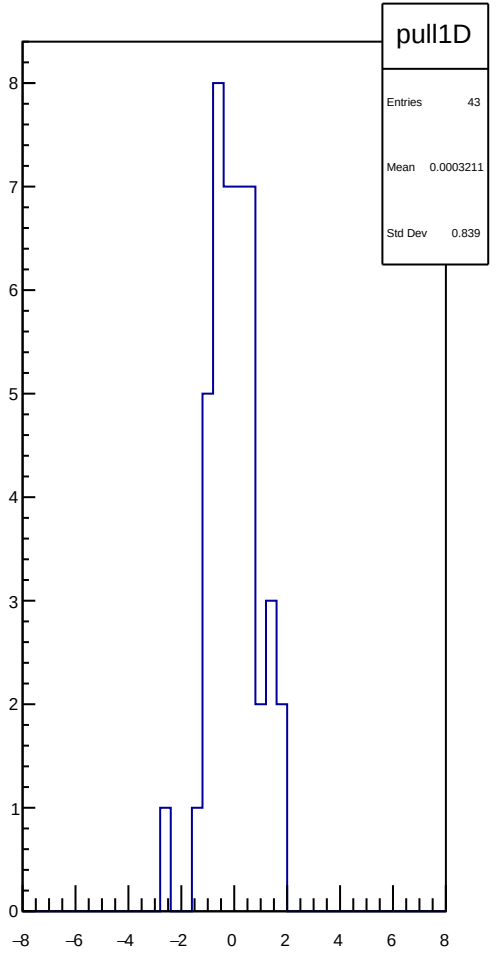

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.61 / 42
p0 44.17 ± 3.814
pull
Entries 43
Mean −1737
Std Dev 1775

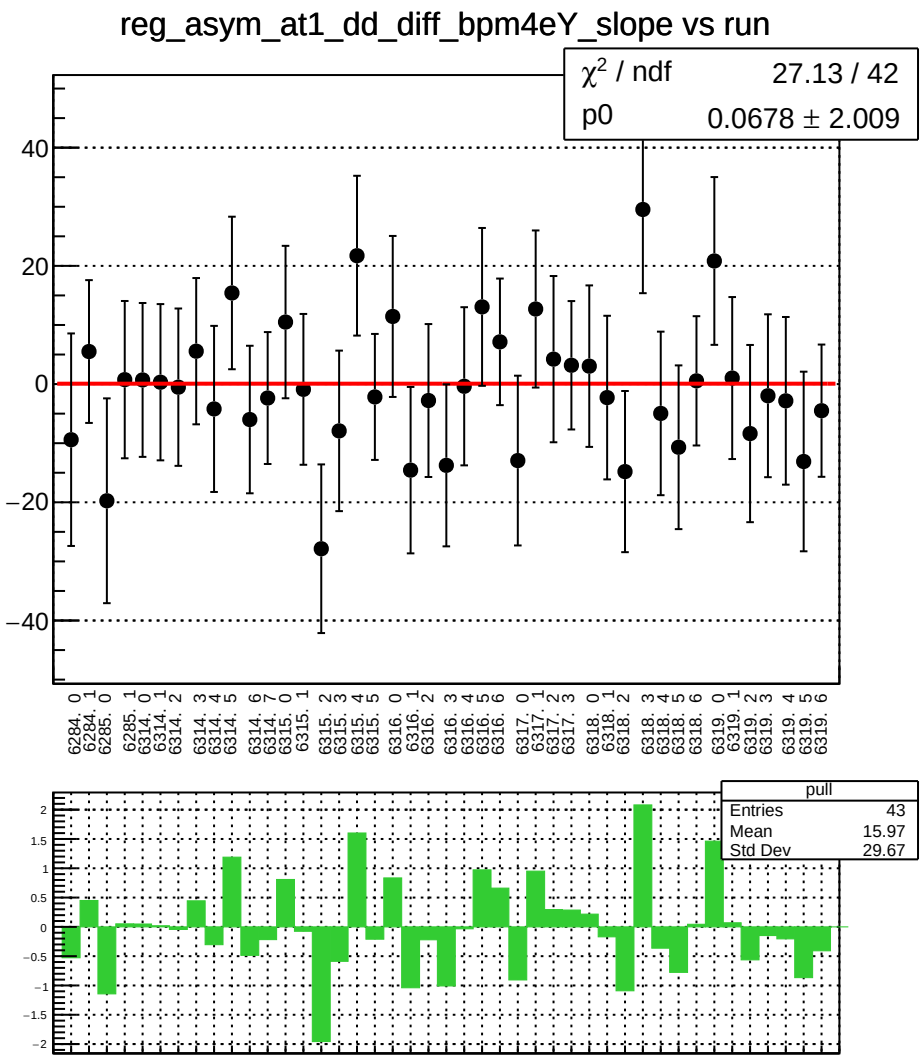

pull1D
Entries 43
Mean −0.0004699
Std Dev 0.8438

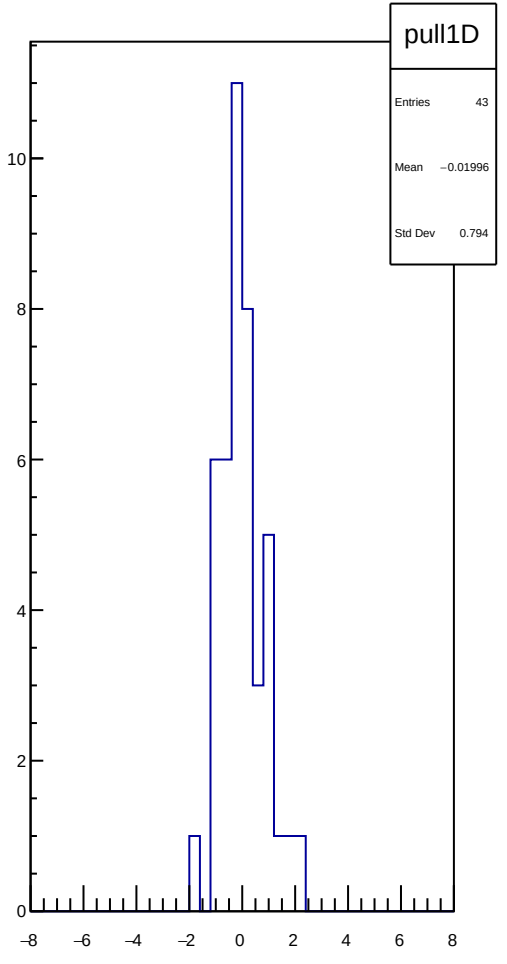

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 26 / 42
p0 −0.3767 ± 1.638
pull
Entries 43
Mean 19.87
Std Dev 23.46

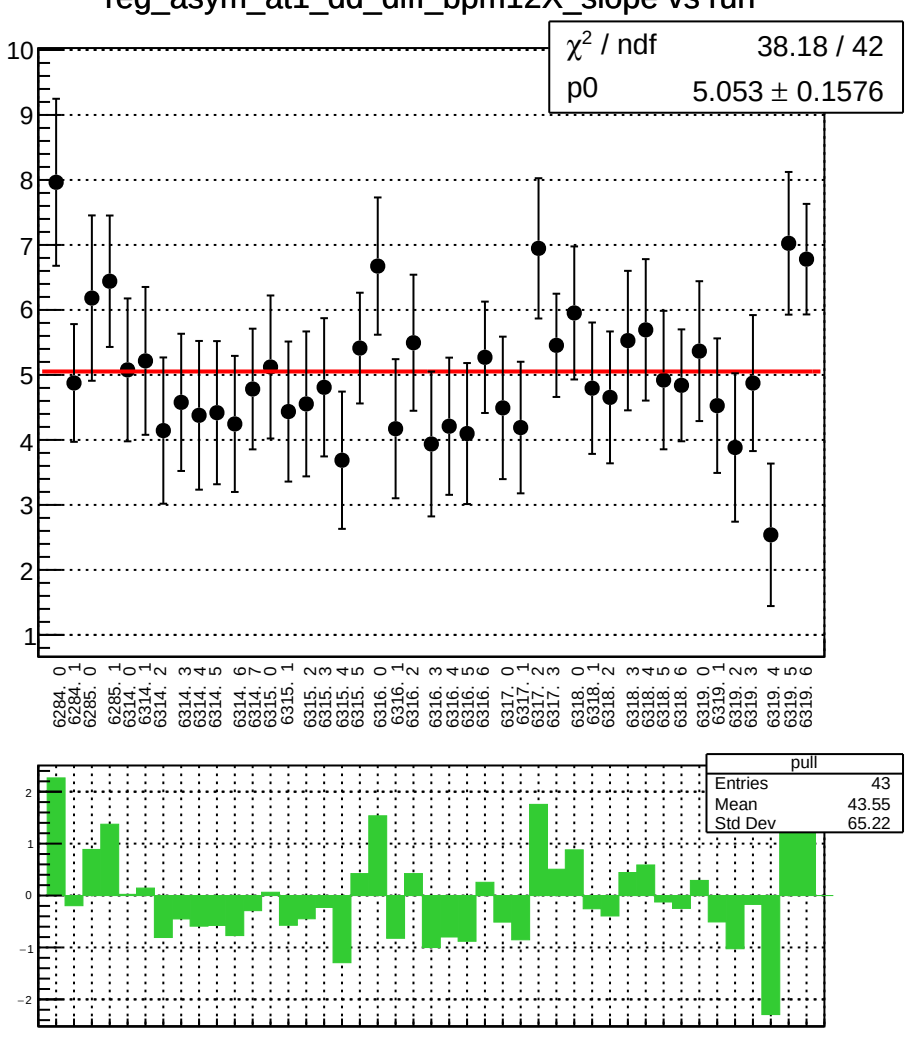

pull1D
Entries 43
Mean 0.02889
Std Dev 0.777

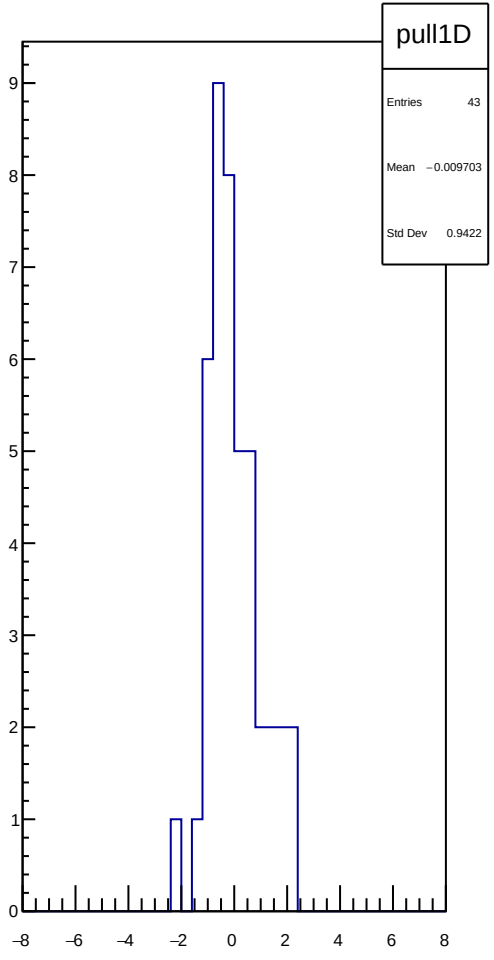

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.27 / 42
p0 0.5241 ± 4.112
pull
Entries 43
Mean −2682
Std Dev 2717

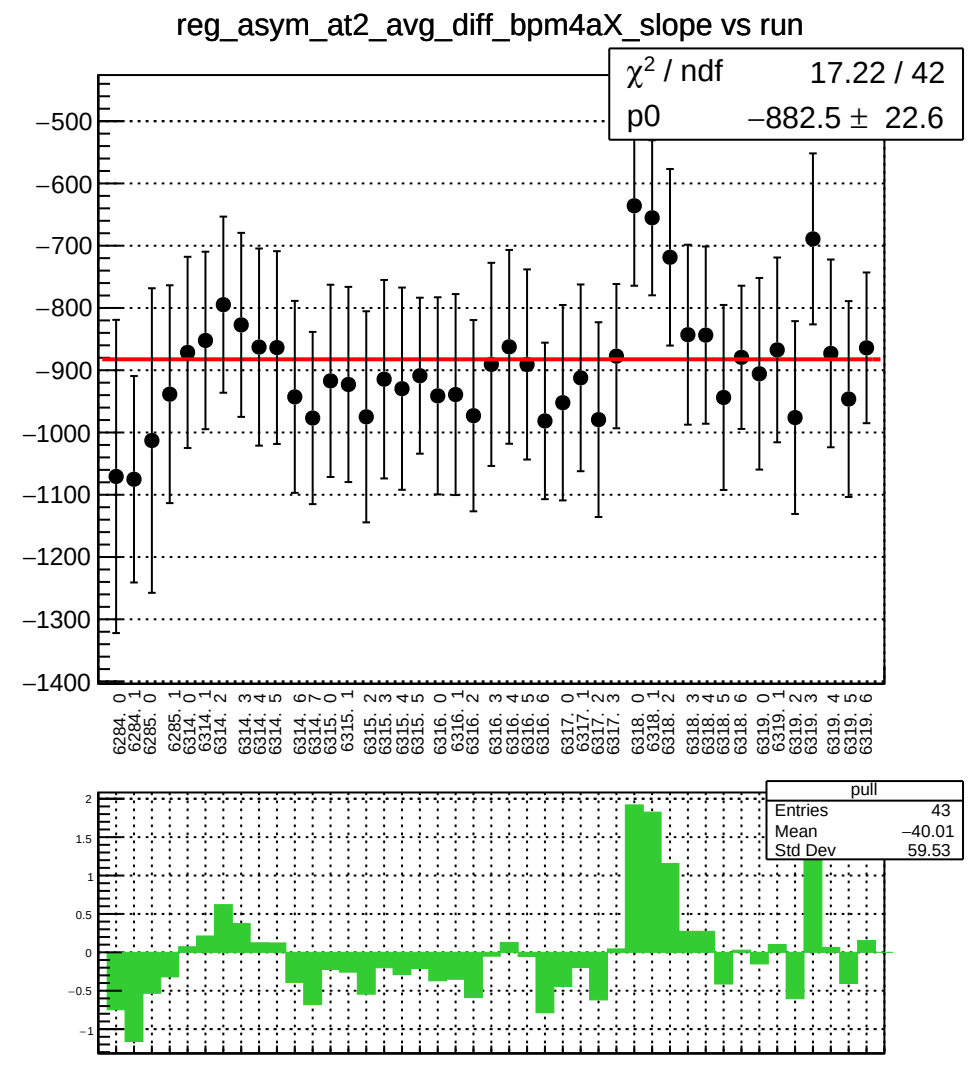

pull1D
Entries 43
Mean 0.0003211
Std Dev 0.839

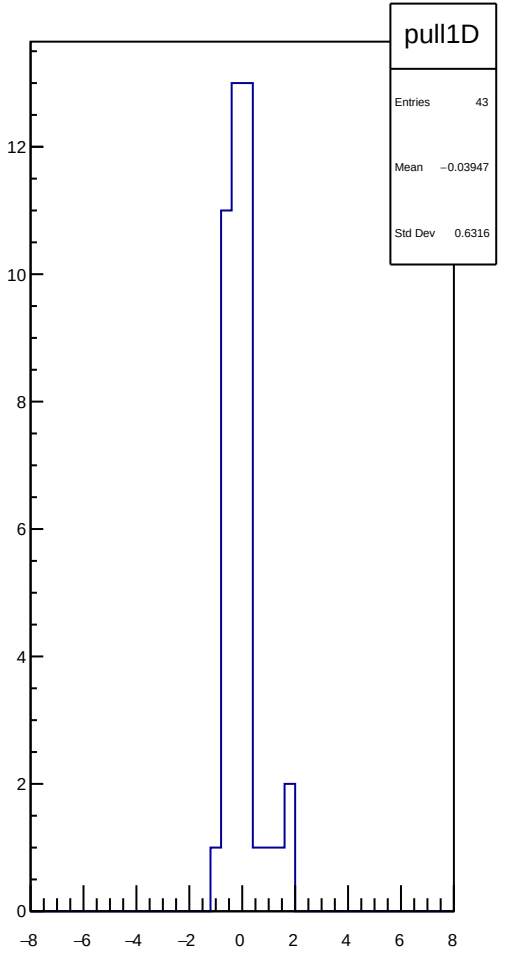

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.13 / 42
p0 0.0678 ± 2.009
40
20
0
−20
−40
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 15.97
Std Dev 29.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

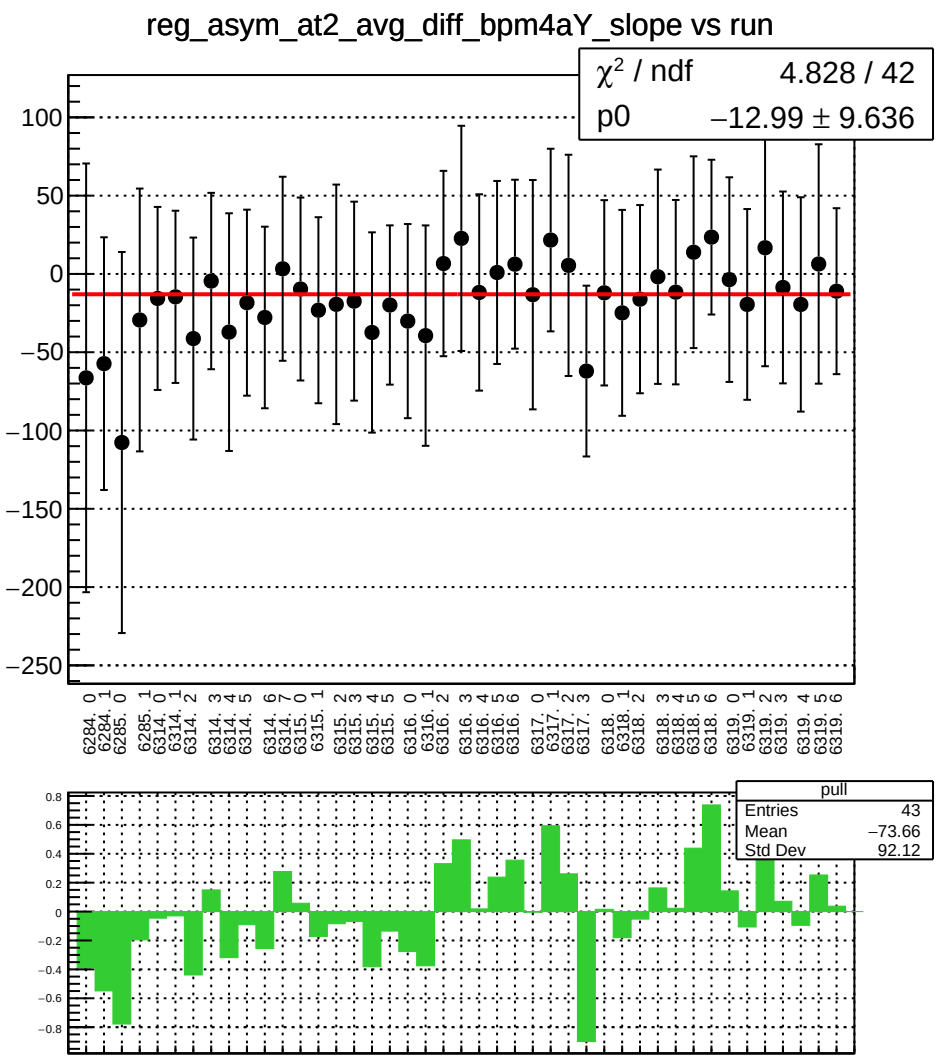

pull1D
Entries 43
Mean −0.01996
Std Dev 0.794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

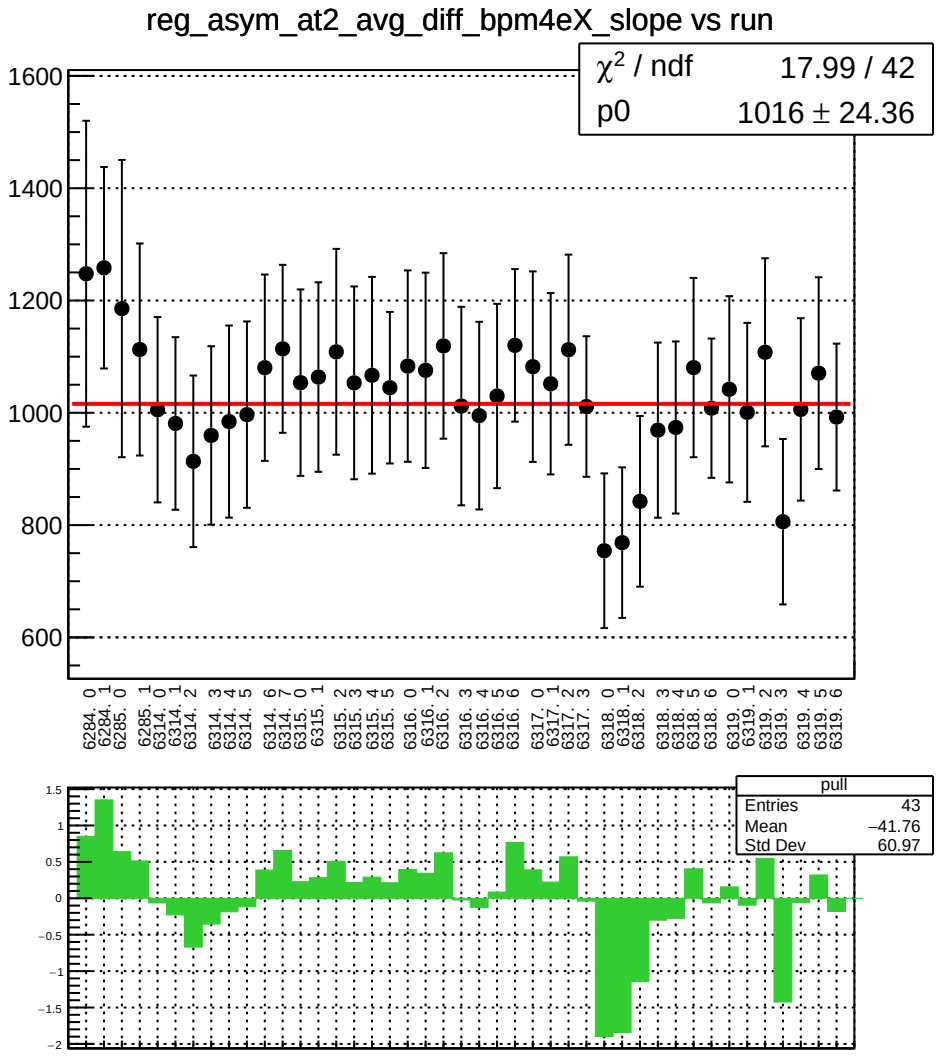

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 38.18 / 42
p0 5.053 ± 0.1576
pull
Entries 43
Mean 43.55
Std Dev 65.22

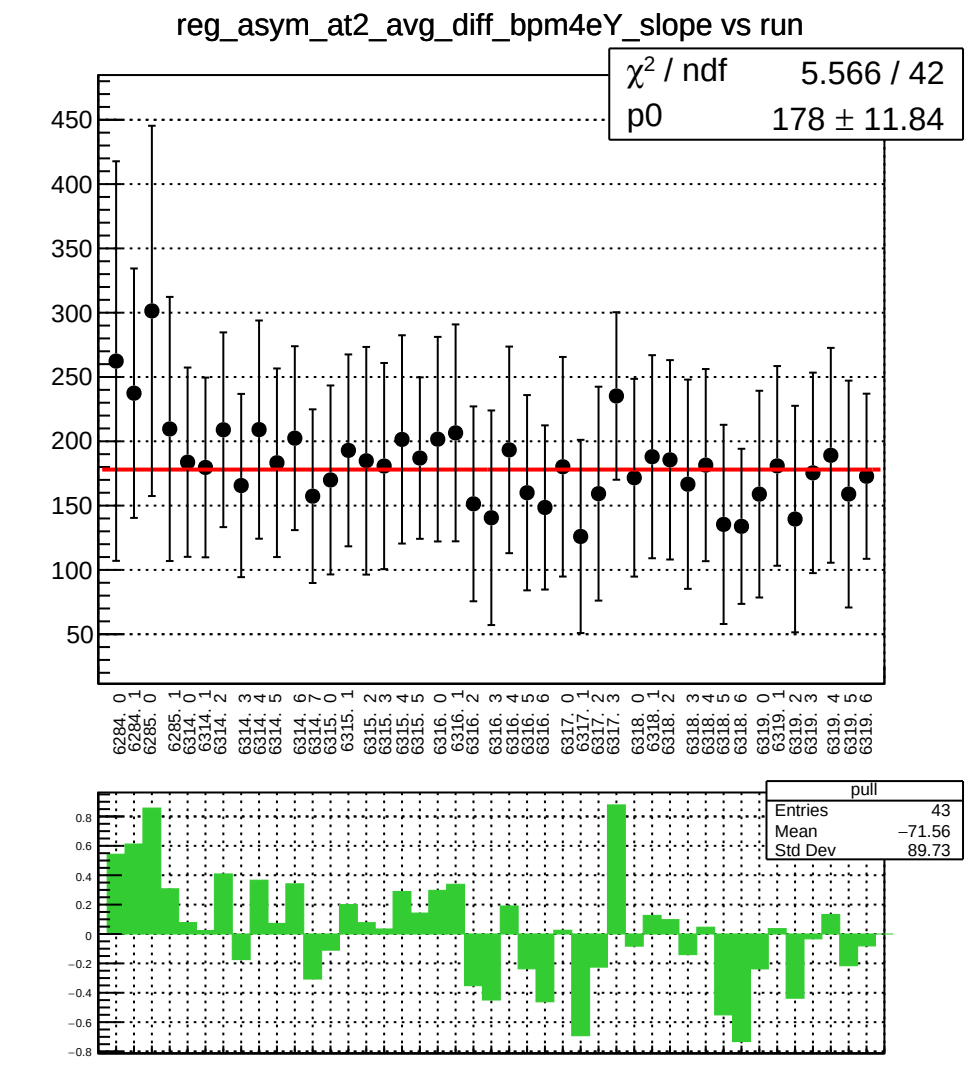

pull1D
Entries 43
Mean −0.009703
Std Dev 0.9422

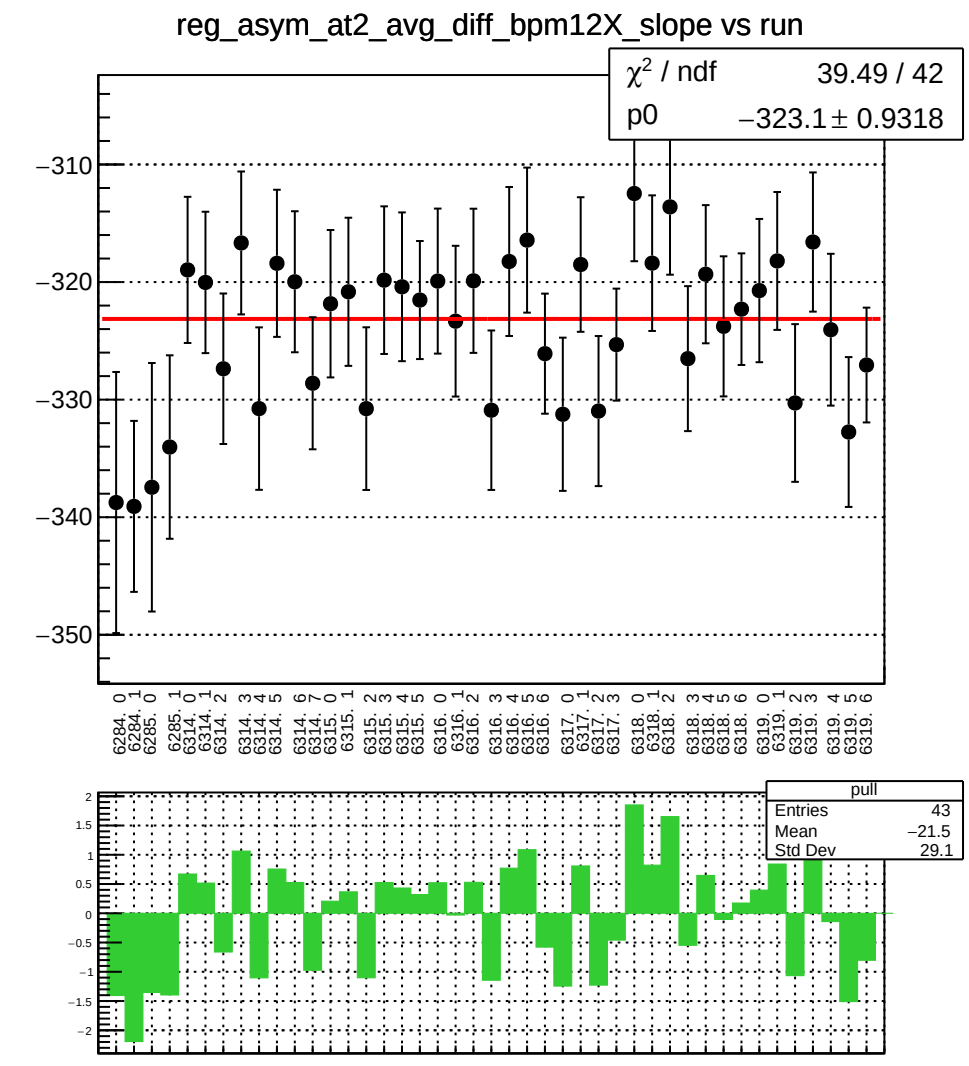

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 17.22 / 42
p0 −882.5 ± 22.6
−500
−600
−700
−800
−900
−1000
−1100
−1200
−1300
−1400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −40.01
Std Dev 59.53
2
1.5
1
0.5
0
−0.5
−1

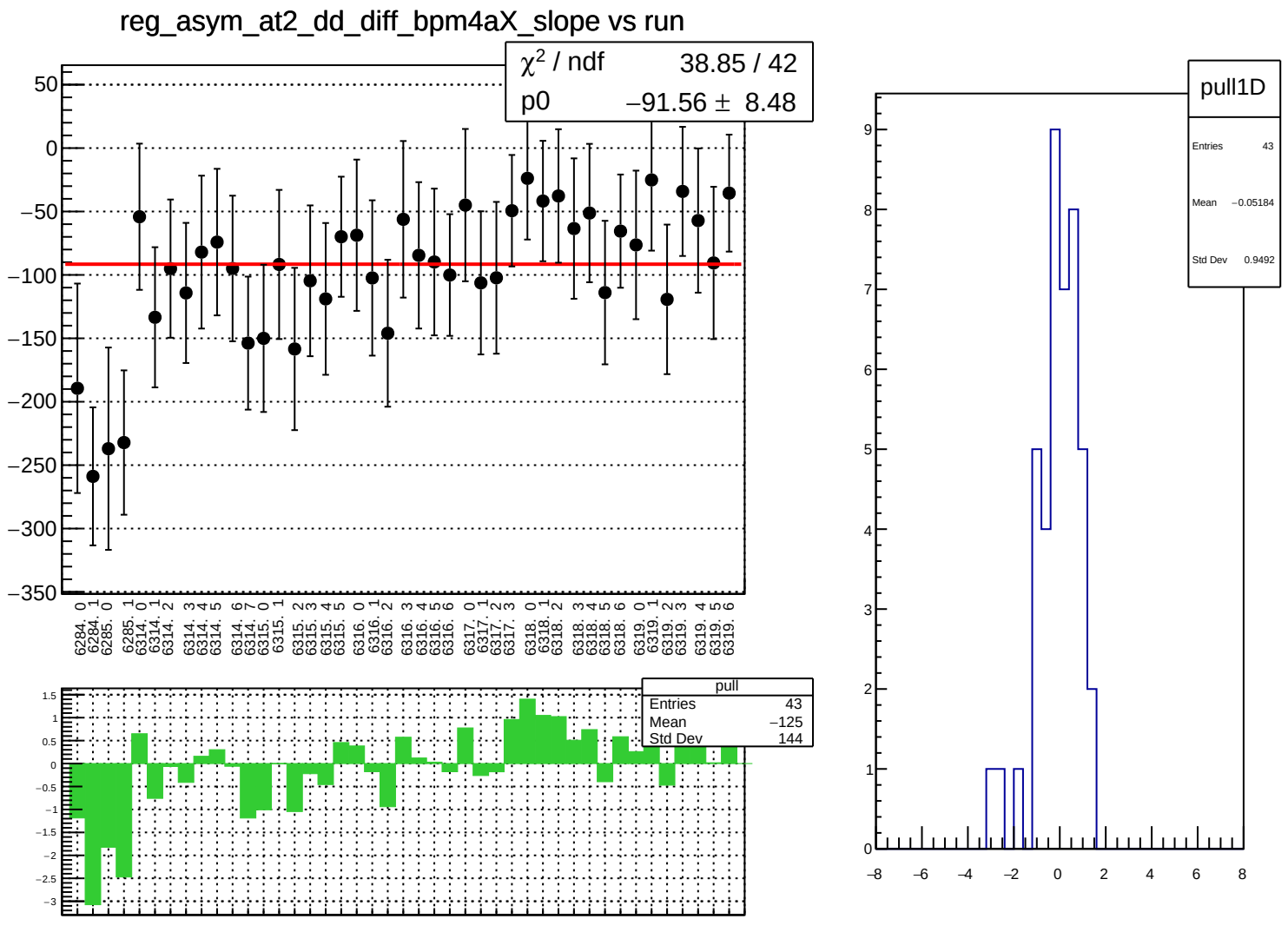

pull1D
Entries 43
Mean −0.03947
Std Dev 0.6316
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

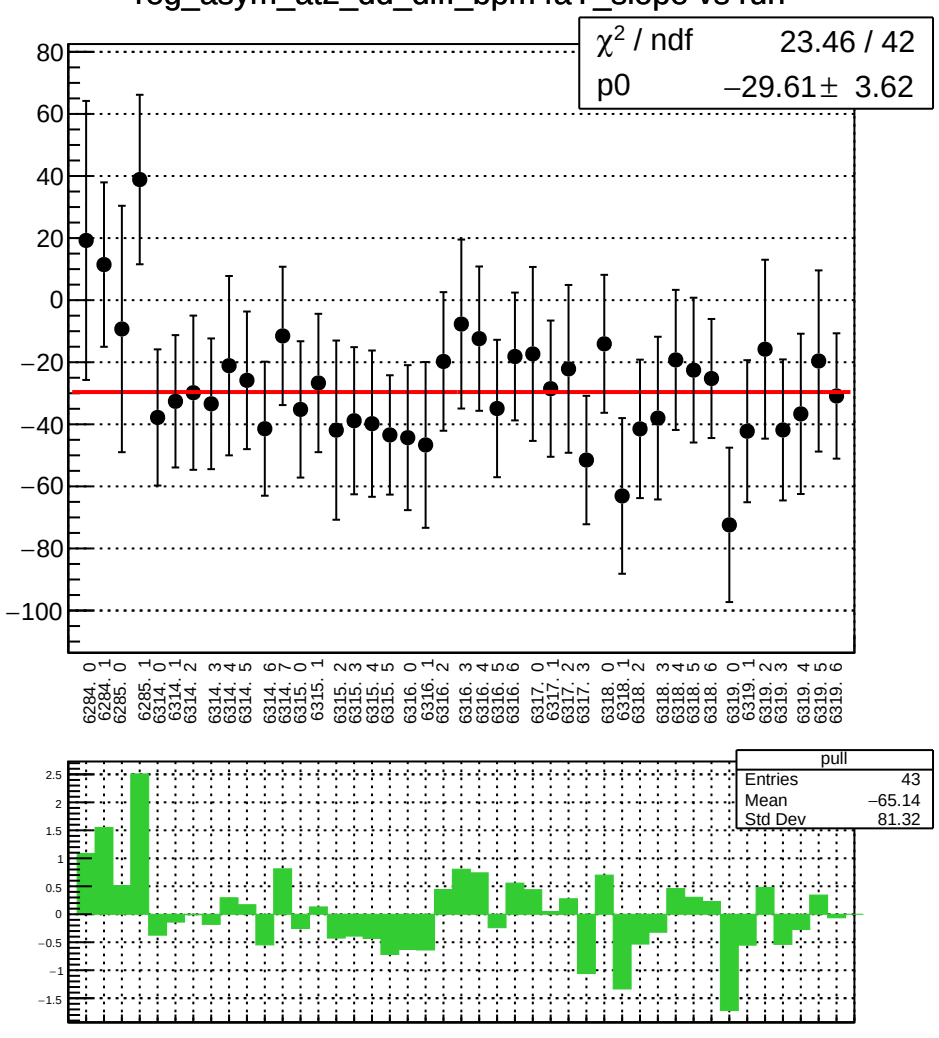

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.828 / 42
p0 −12.99 ± 9.636
100
50
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −73.66
Std Dev 92.12
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.02012
Std Dev 0.3345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

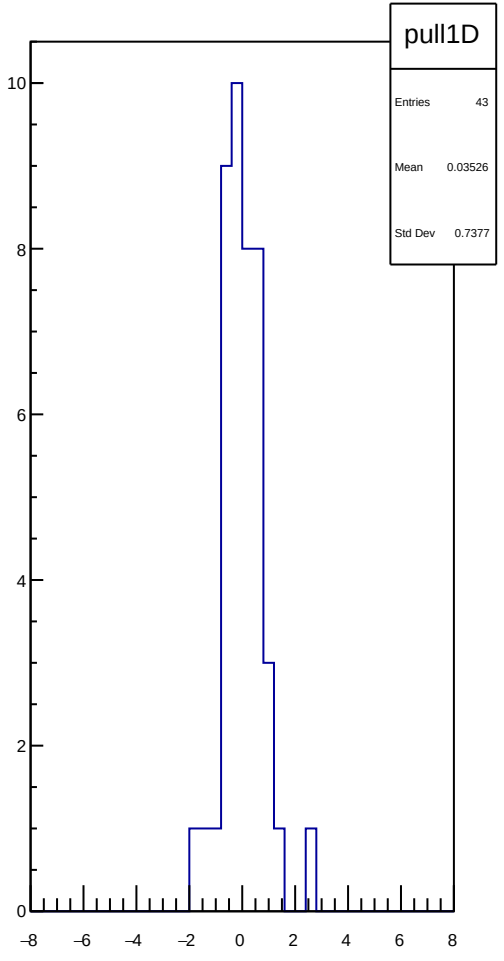

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.99 / 42
p0 1016 ± 24.36
1600
1400
1200
1000
800
600
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −41.76
Std Dev 60.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.04369
Std Dev 0.6454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

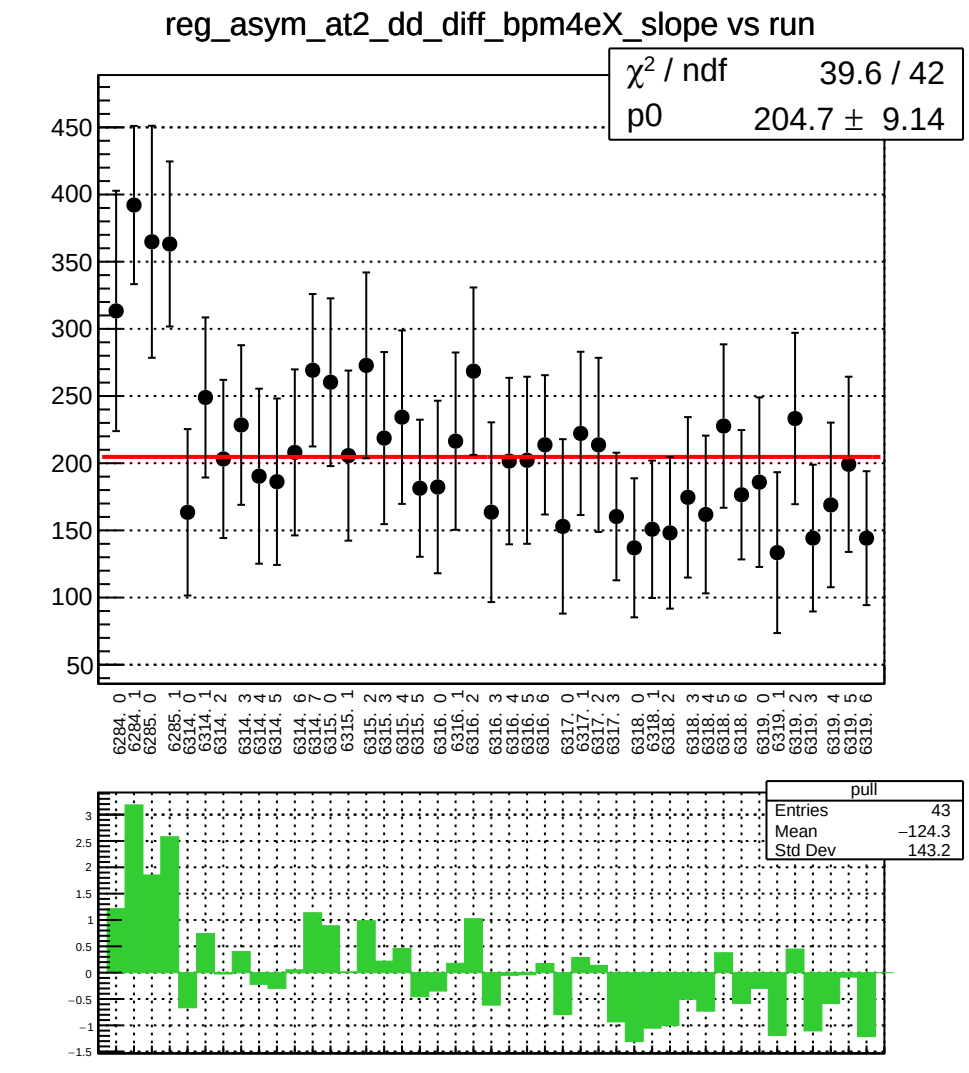

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.566 / 42
p0 178 ± 11.84
450
400
350
300
250
200
150
100
50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −71.56
Std Dev 89.73
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.02335
Std Dev 0.359
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

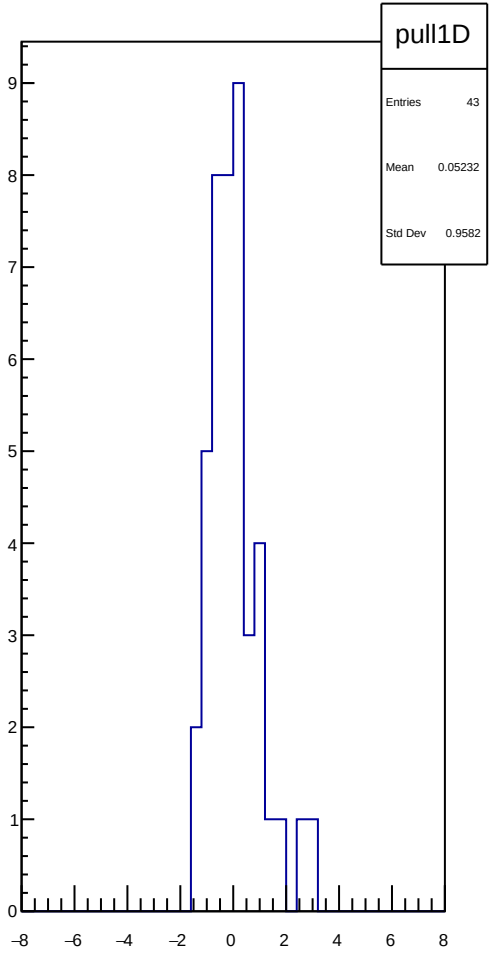

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 39.49 / 42
p0 −323.1 ± 0.9318
−310
−320
−330
−340
−350
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −21.5
Std Dev 29.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.05723
Std Dev 0.9566
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

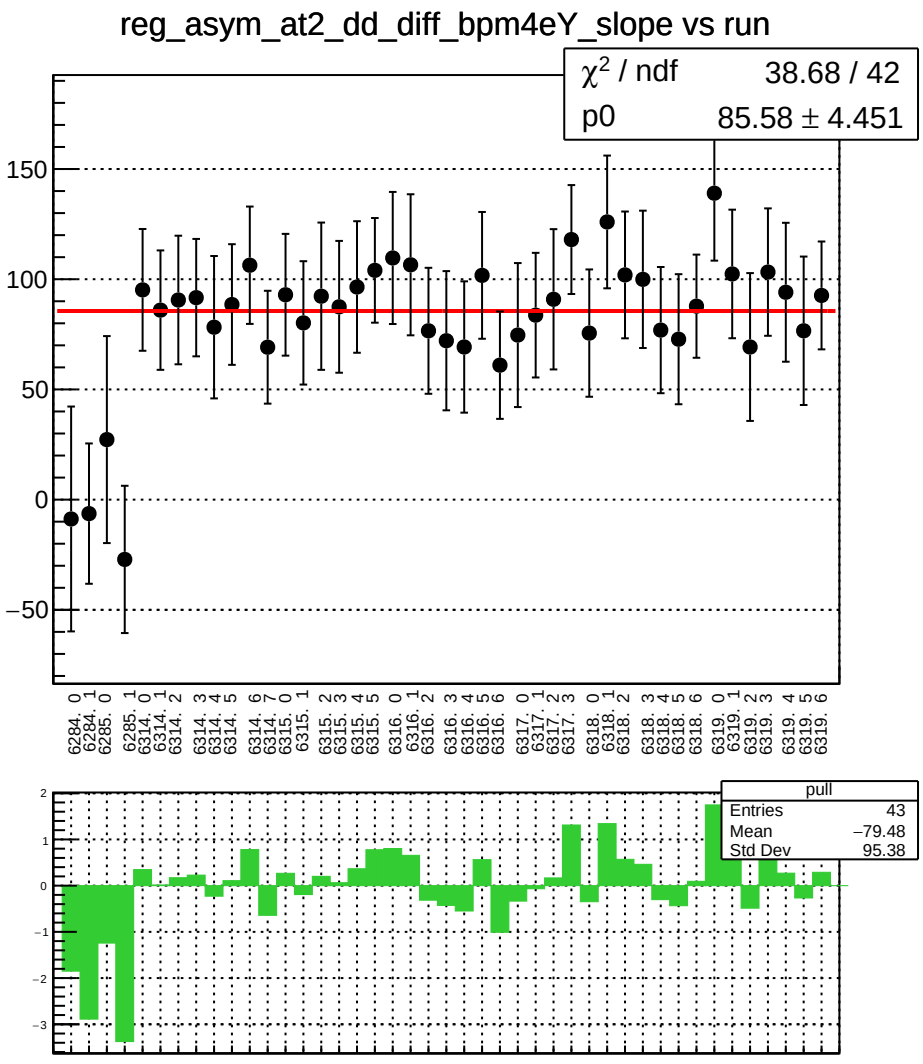

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 38.85 / 42
p0 −91.56 ± 8.48
pull
Entries 43
Mean −125
Std Dev 144
pull1D
Entries 43
Mean −0.05184
Std Dev 0.9492

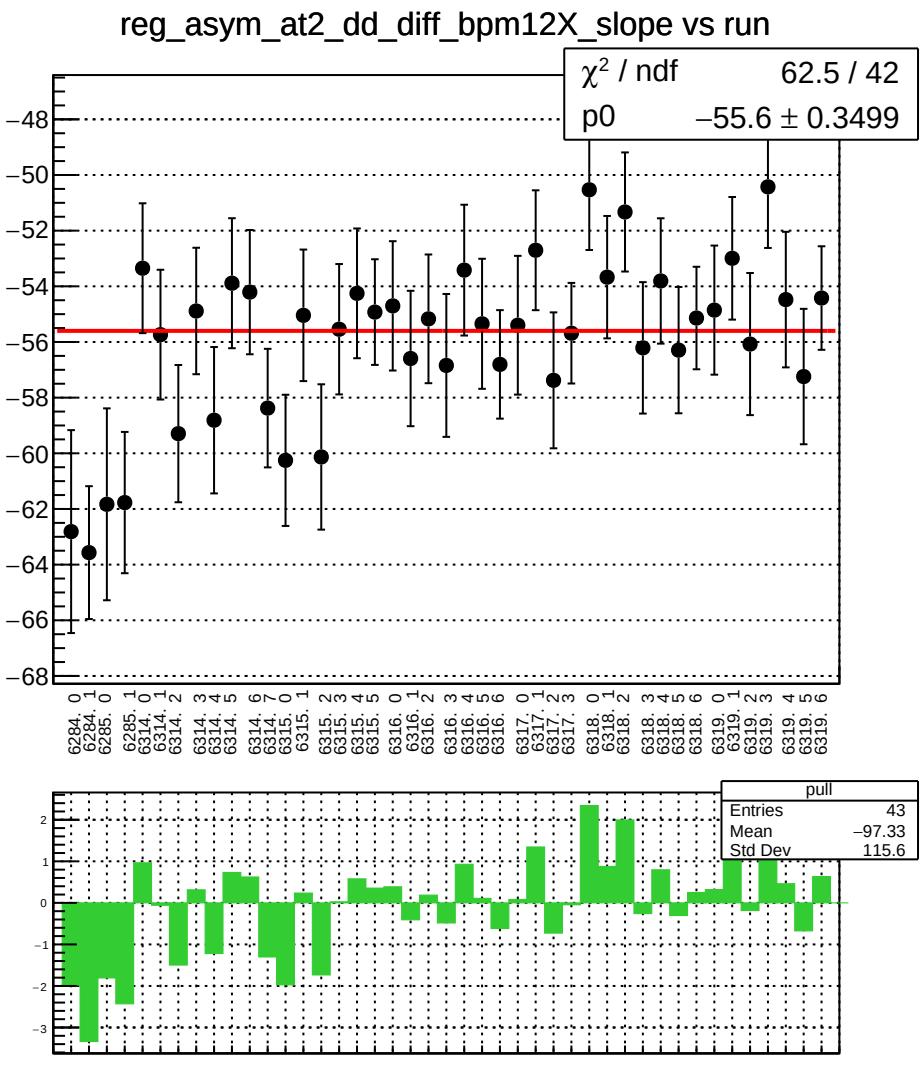

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.46 / 42
p0 −29.61 ± 3.62
pull
Entries 43
Mean −65.14
Std Dev 81.32

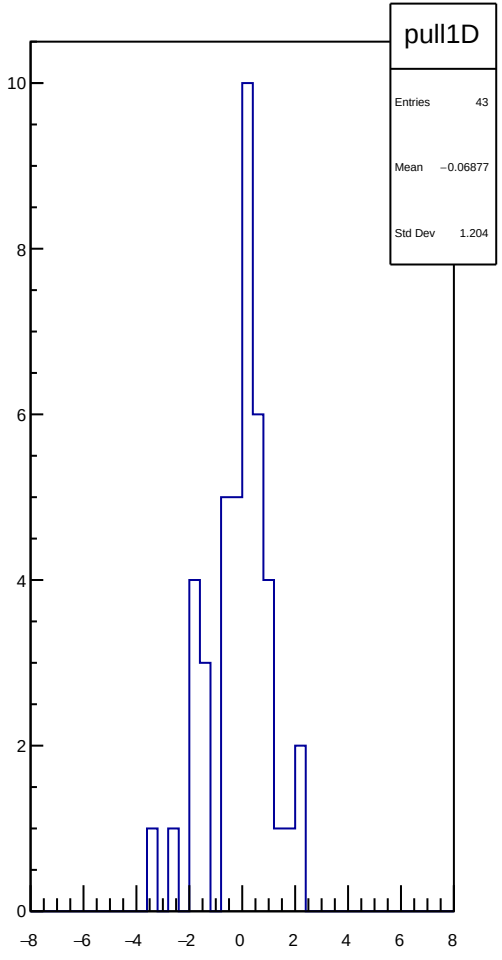

pull1D
Entries 43
Mean 0.03526
Std Dev 0.7377

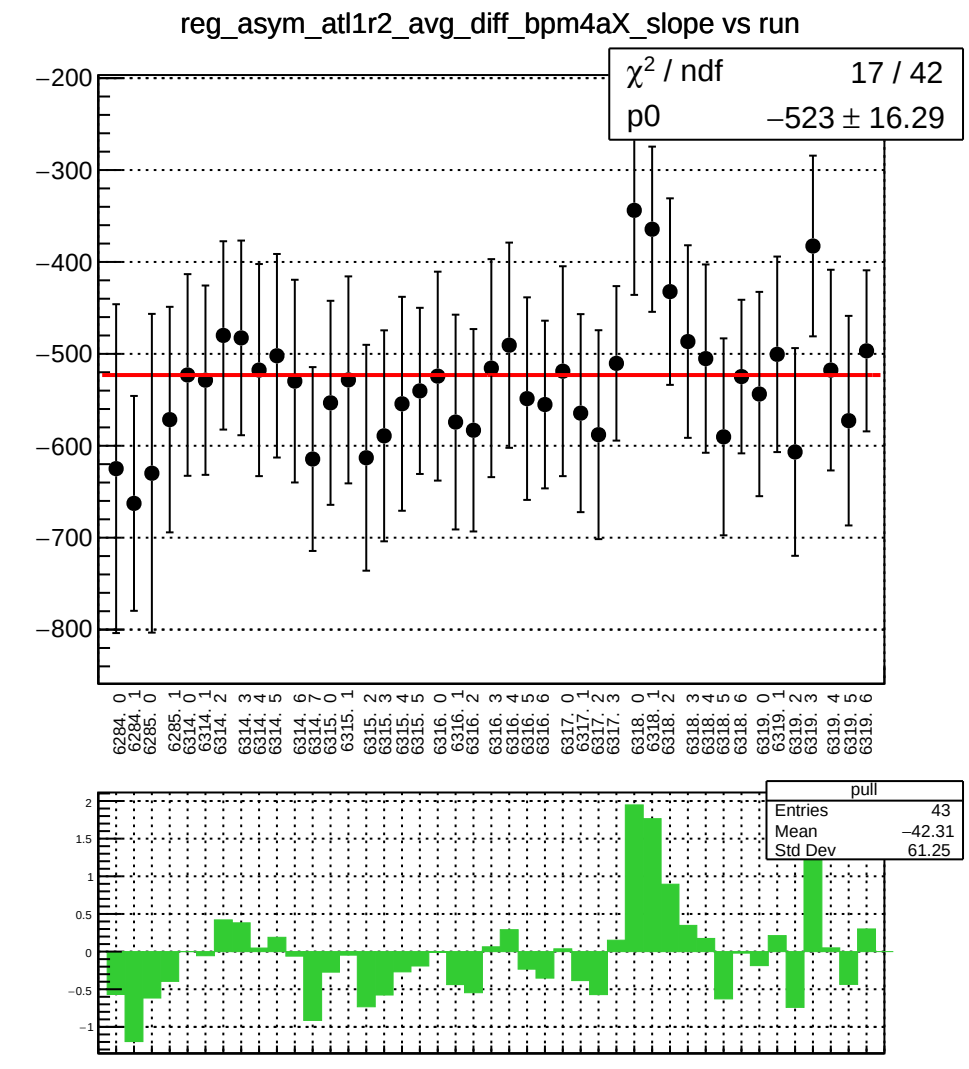

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.6 / 42
p0 204.7 ± 9.14
pull
Entries 43
Mean −124.3
Std Dev 143.2

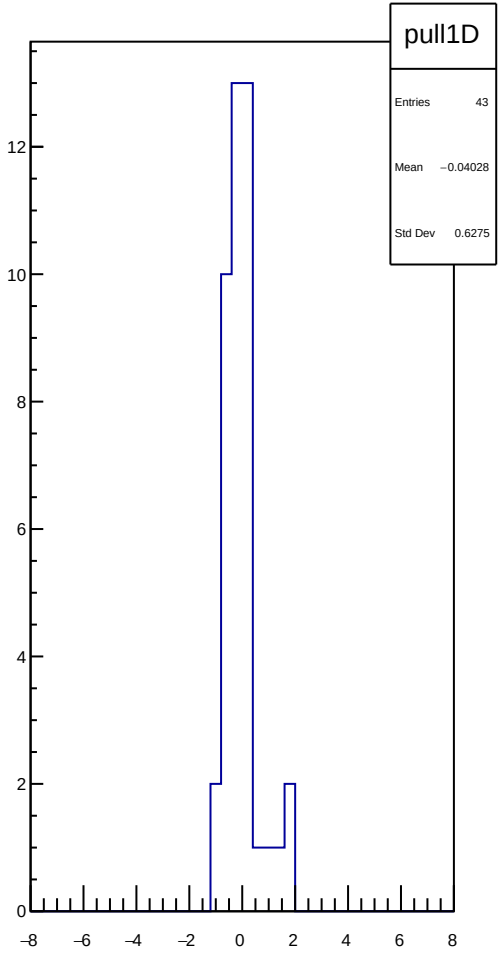

pull1D
Entries 43
Mean 0.05232
Std Dev 0.9582

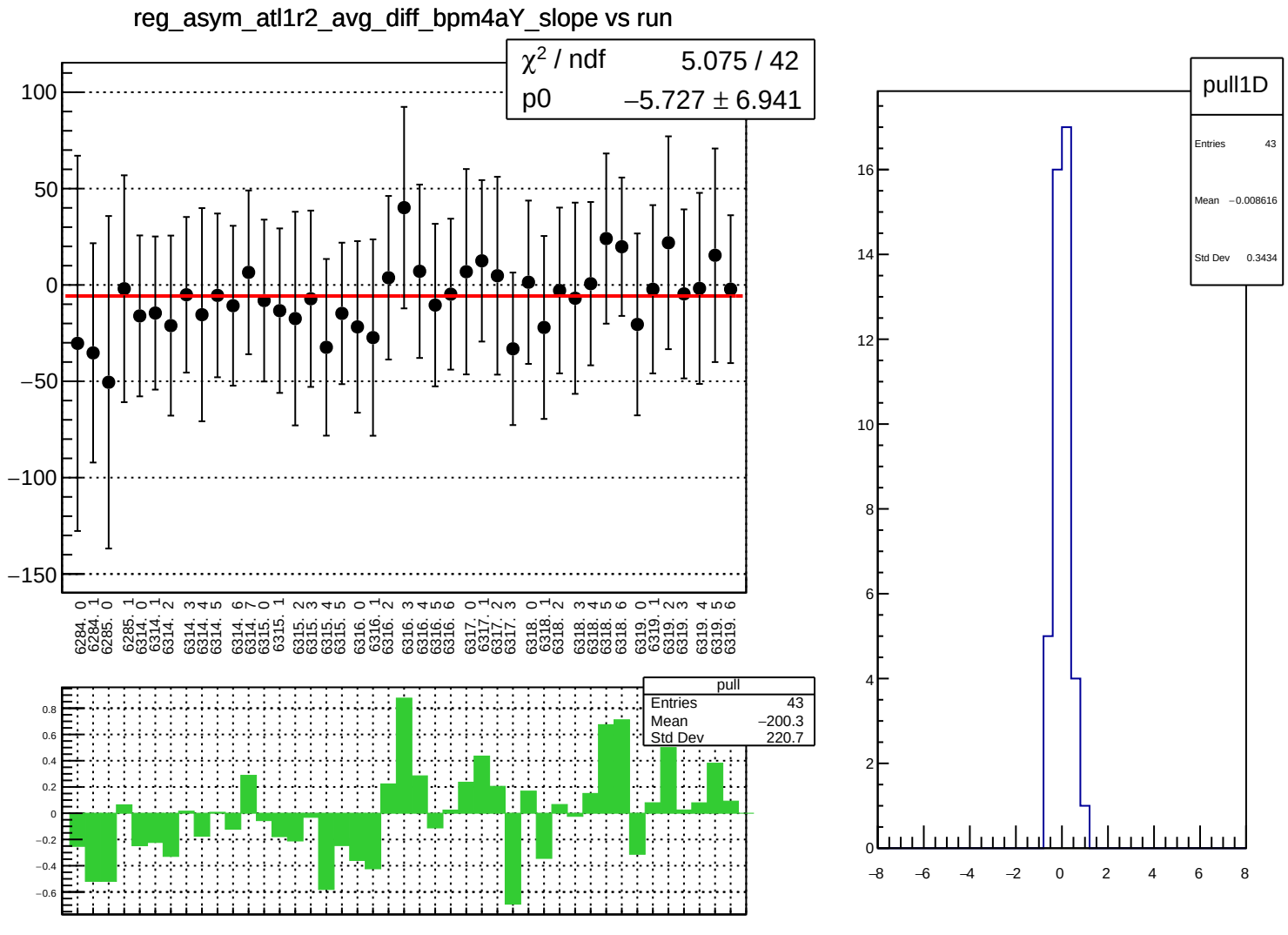

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.68 / 42
p0 85.58 ± 4.451
150
100
50
0
−50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −79.48
Std Dev 95.38
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0506
Std Dev 0.9471
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

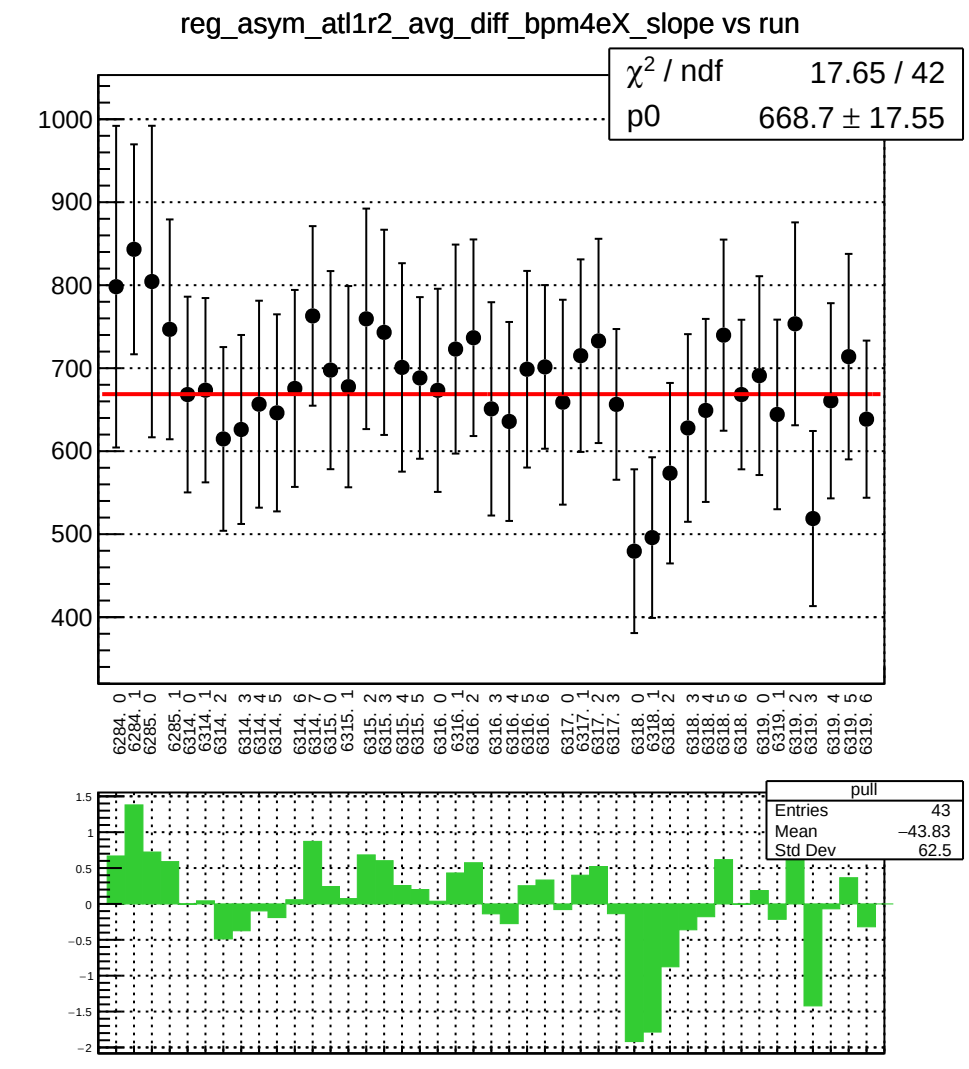

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 62.5 / 42
p0 −55.6 ± 0.3499
−48
−50
−52
−54
−56
−58
−60
−62
−64
−66
−68
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −97.33
Std Dev 115.6
2
1
0
−1
−2
−3

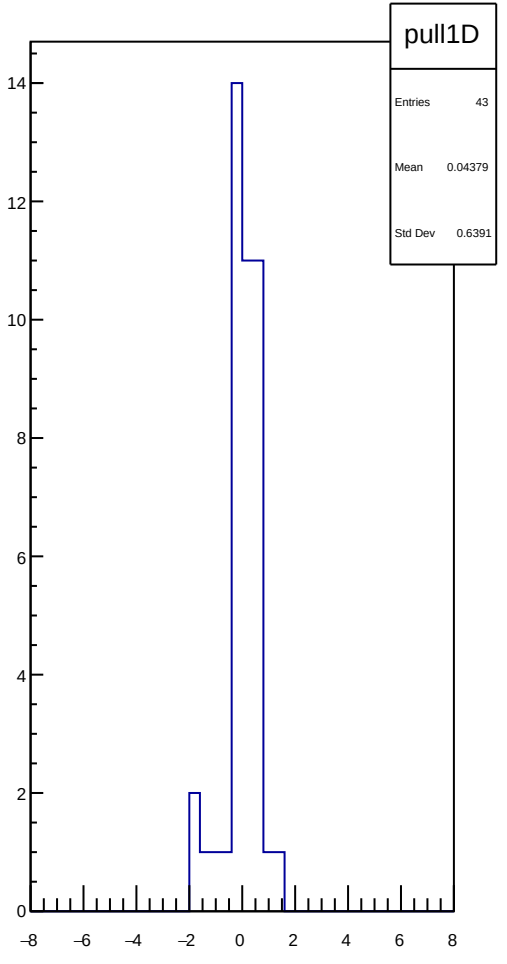

pull1D
Entries 43
Mean −0.06877
Std Dev 1.204
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

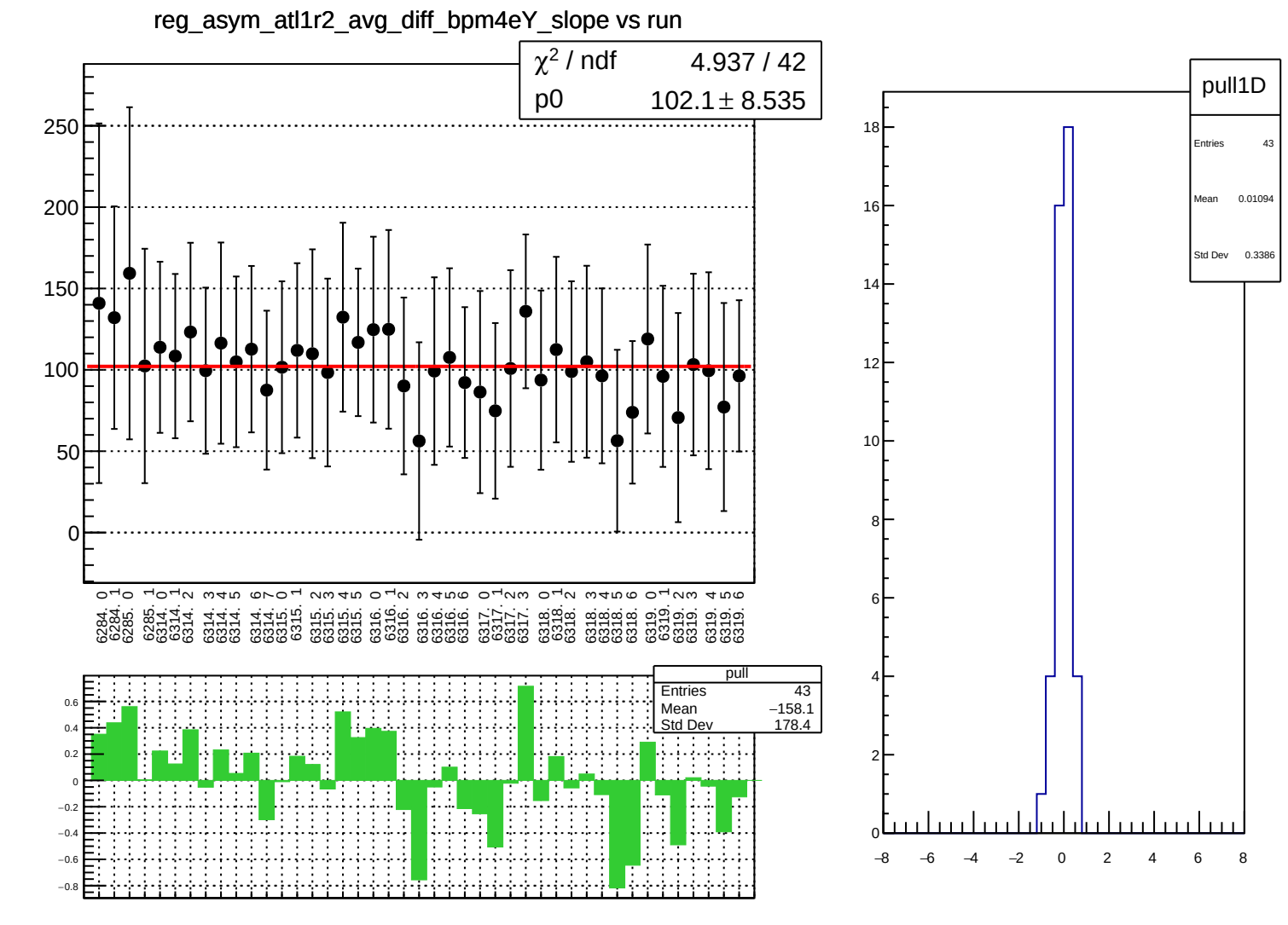

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 17 / 42
p0 −523 ± 16.29
−200
−300
−400
−500
−600
−700
−800
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −42.31
Std Dev 61.25
2
1.5
1
0.5
0
−0.5
−1

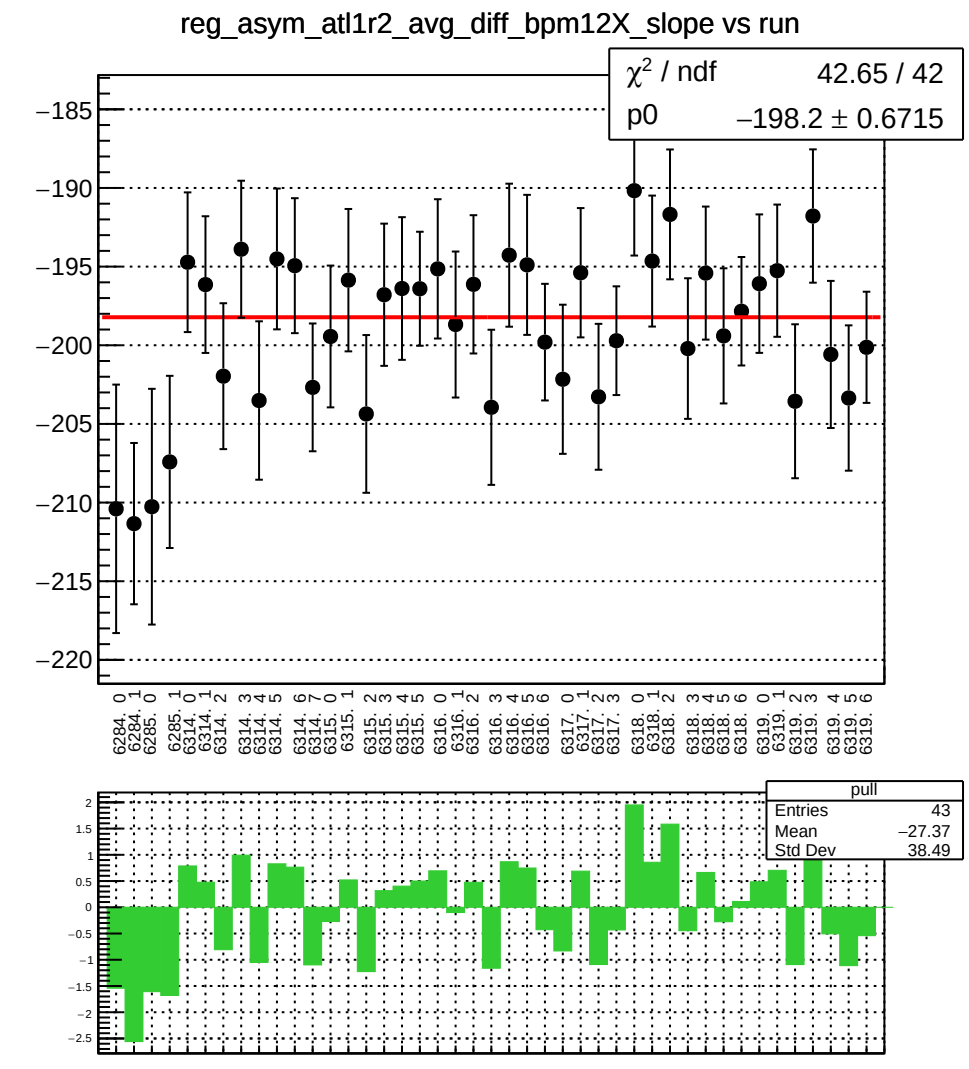

pull1D
Entries 43
Mean −0.04028
Std Dev 0.6275
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

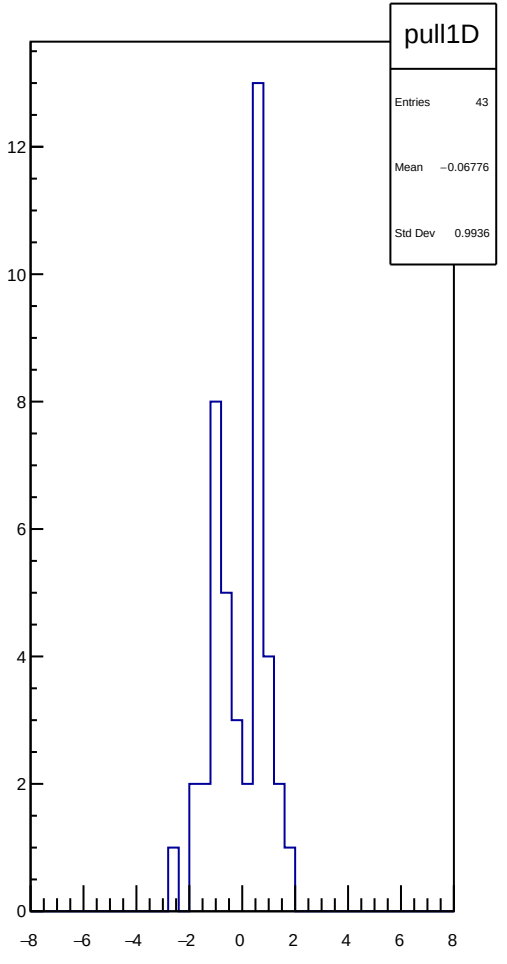

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.075 / 42
p0 −5.727 ± 6.941
100
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −200.3
Std Dev 220.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.008616
Std Dev 0.3434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

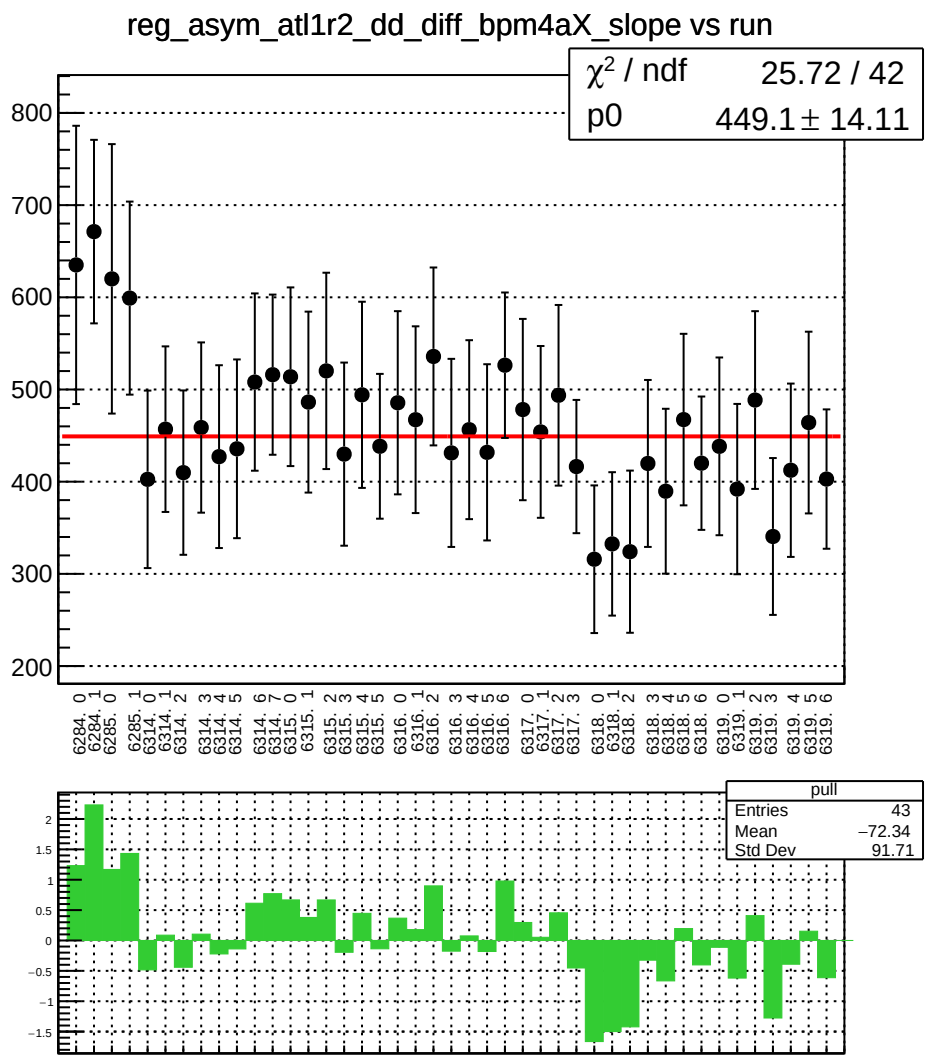

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.65 / 42
p0 668.7 ± 17.55
1000
900
800
700
600
500
400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −43.83
Std Dev 62.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

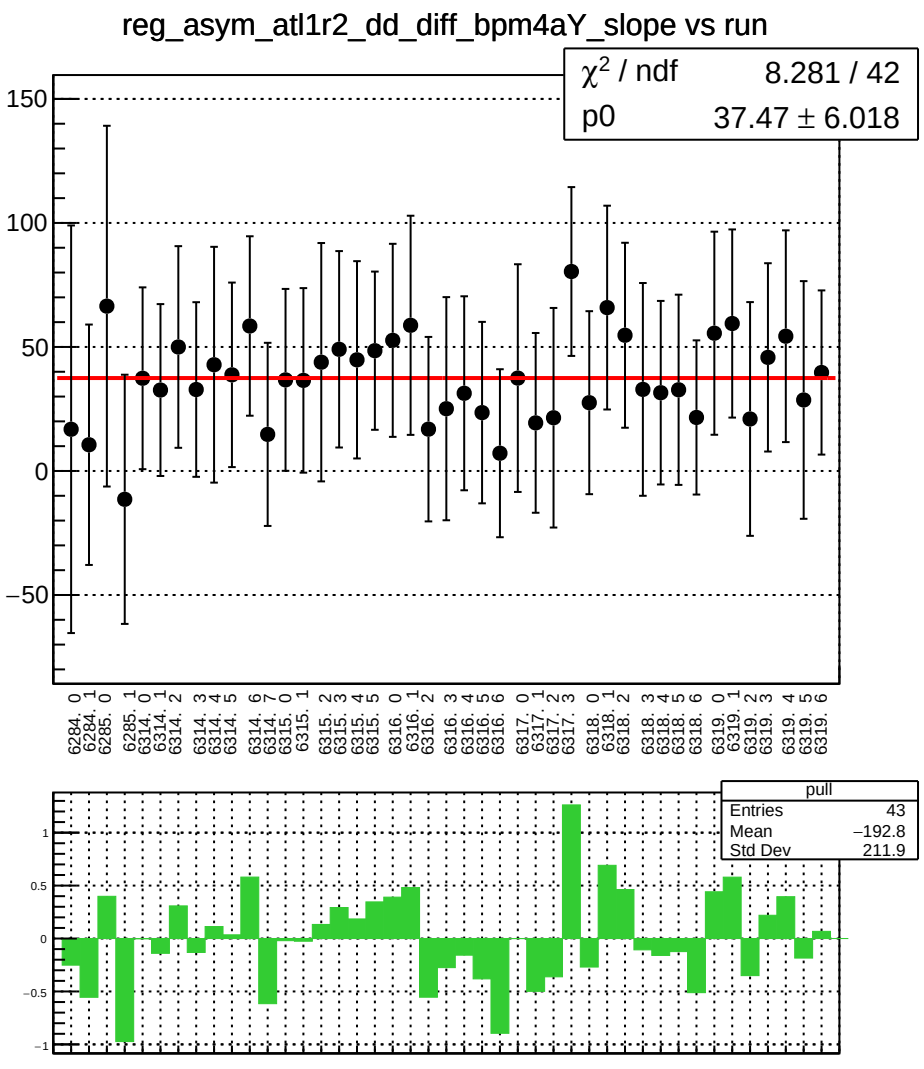

pull1D
Entries 43
Mean 0.04379
Std Dev 0.6391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

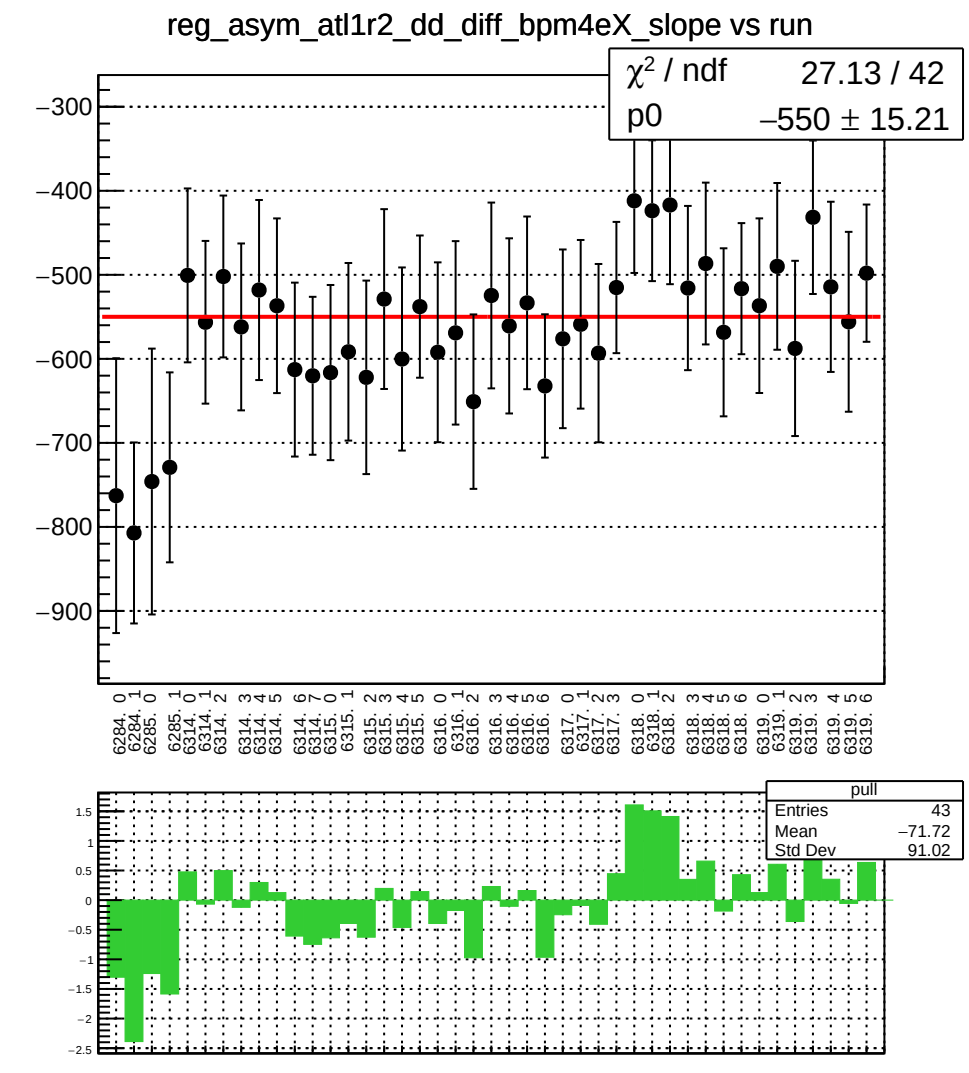

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.937 / 42
p0 102.1 ± 8.535
250
200
150
100
50
0
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −158.1
Std Dev 178.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.01094
Std Dev 0.3386
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

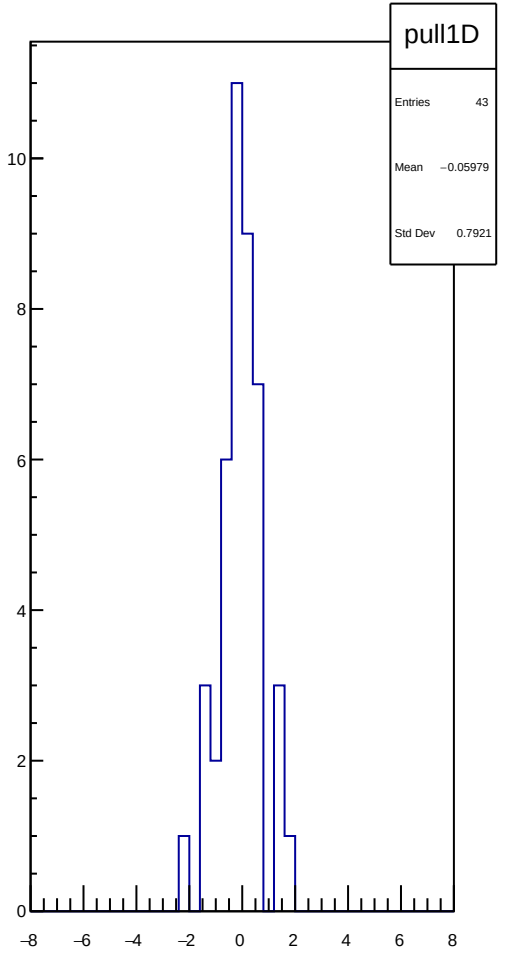

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 42.65 / 42
p0 −198.2 ± 0.6715
−185
−190
−195
−200
−205
−210
−215
−220
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −27.37
Std Dev 38.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

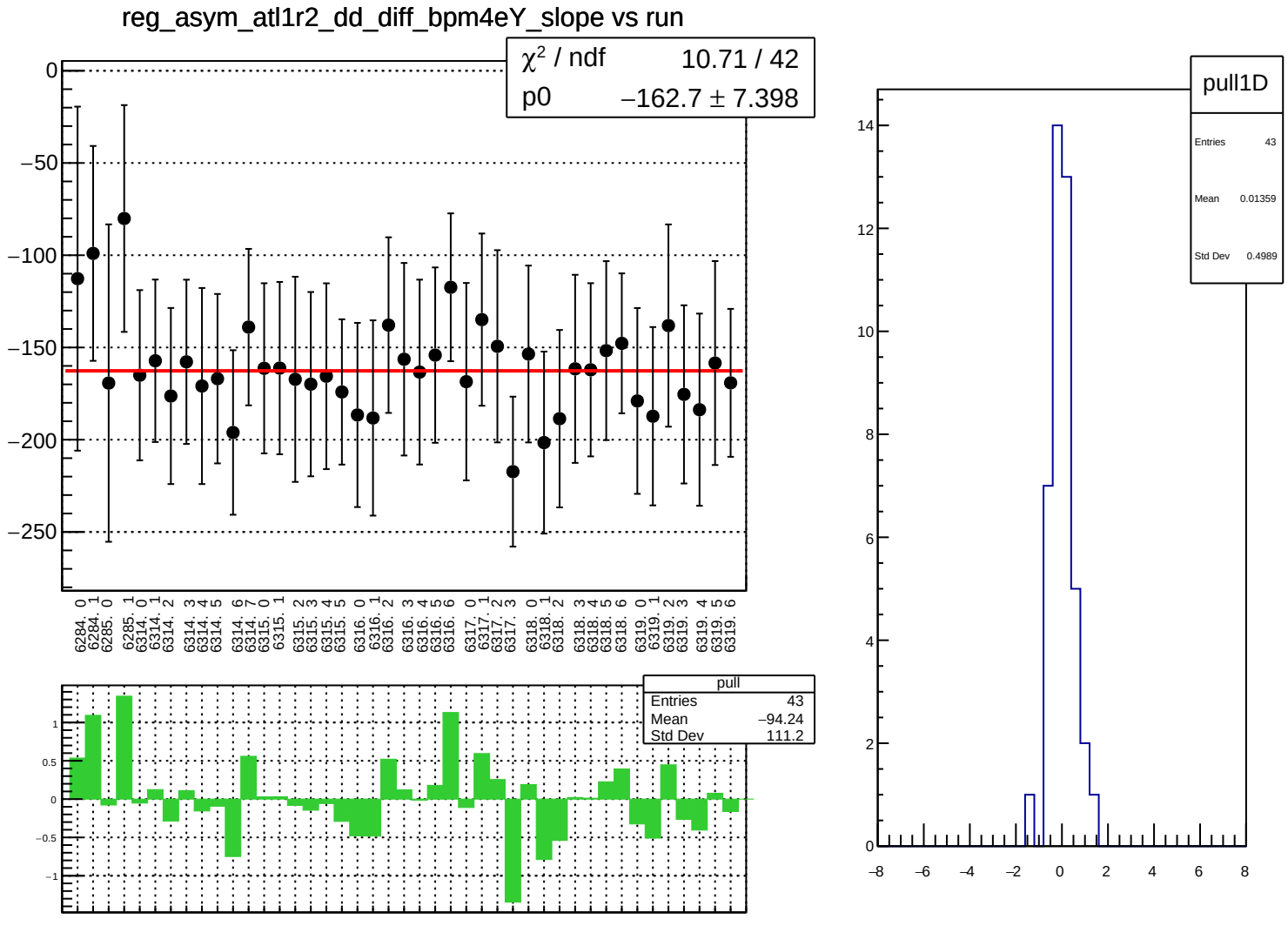

pull1D
Entries 43
Mean −0.06776
Std Dev 0.9936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

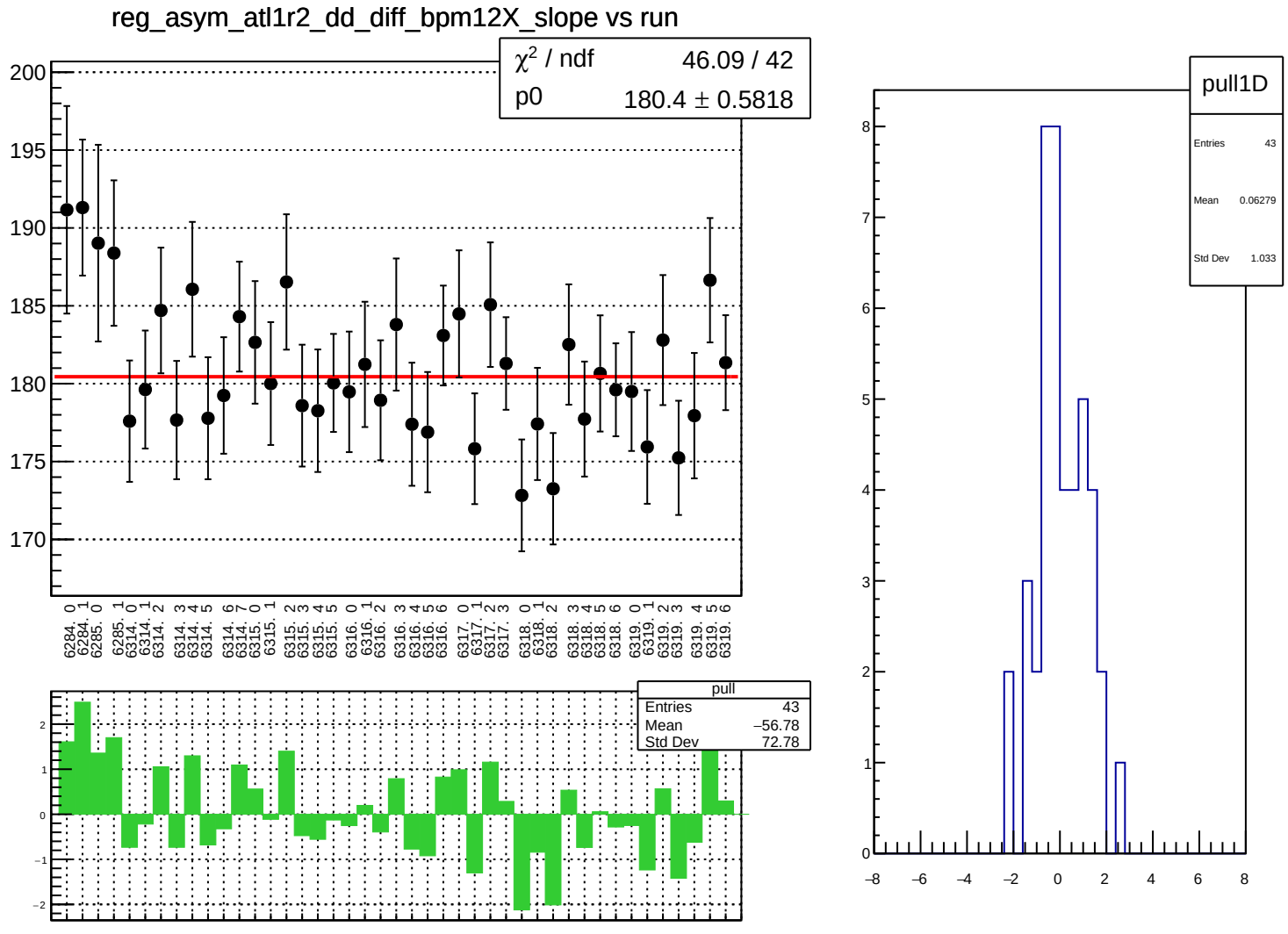

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.72 / 42
p0 449.1 ± 14.11
800
700
600
500
400
300
200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −72.34
Std Dev 91.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.05696
Std Dev 0.7714
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

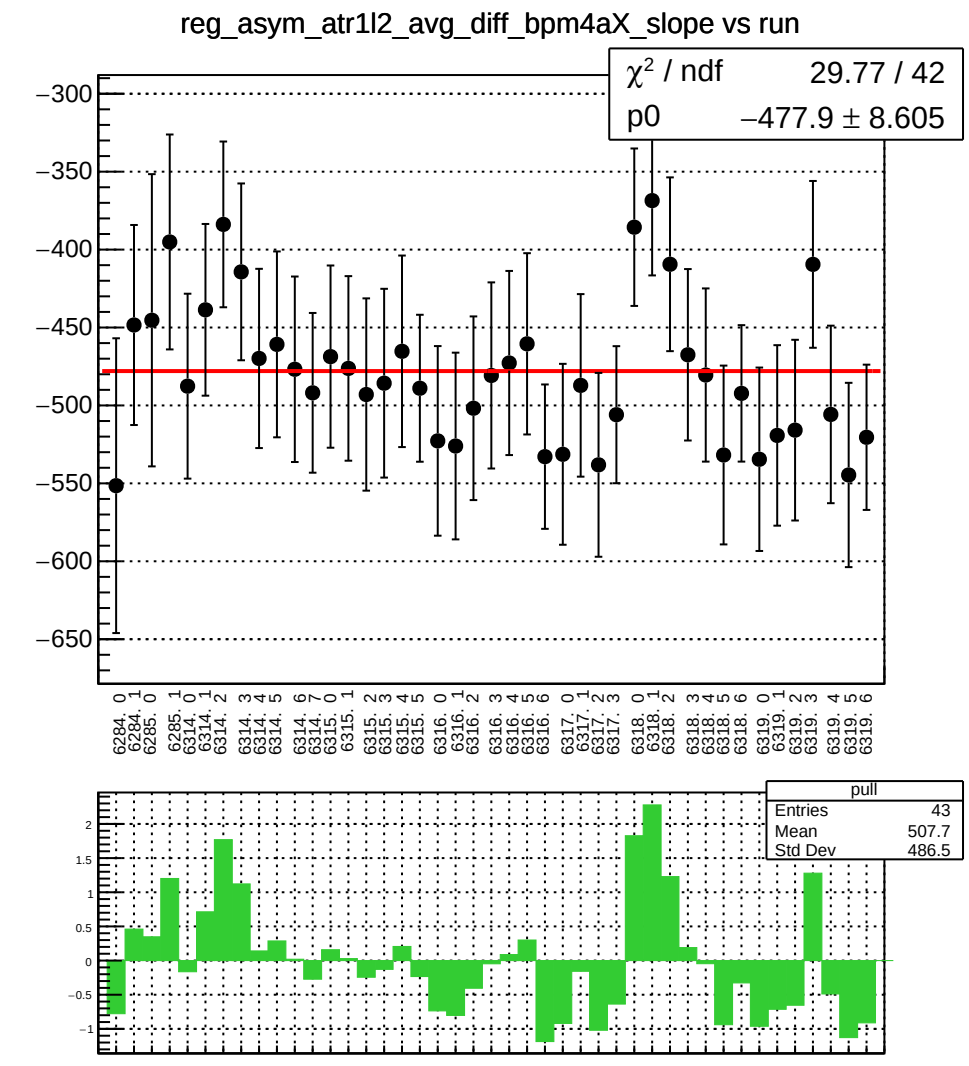

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.281 / 42
p0 37.47 ± 6.018
150
100
50
0
−50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −192.8
Std Dev 211.9
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.003694
Std Dev 0.4388
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

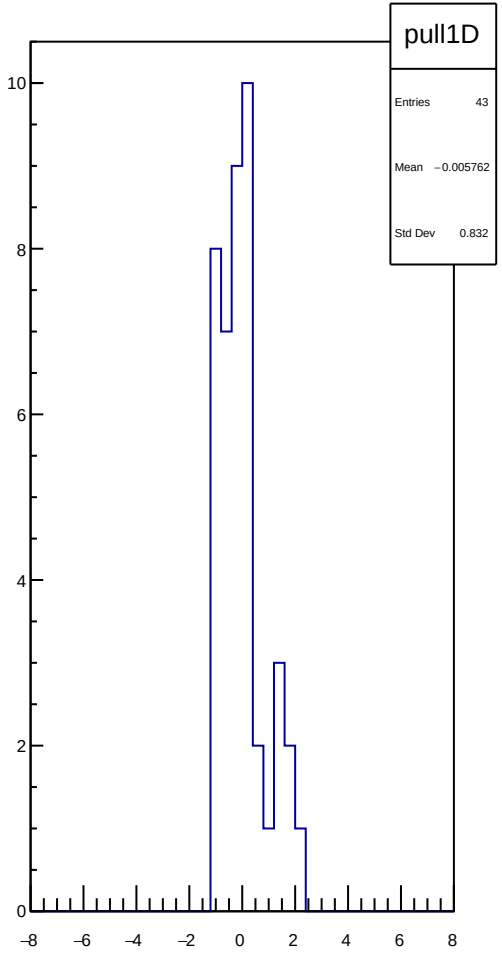

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.13 / 42
p0 −550 ± 15.21
−300
−400
−500
−600
−700
−800
−900
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −71.72
Std Dev 91.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

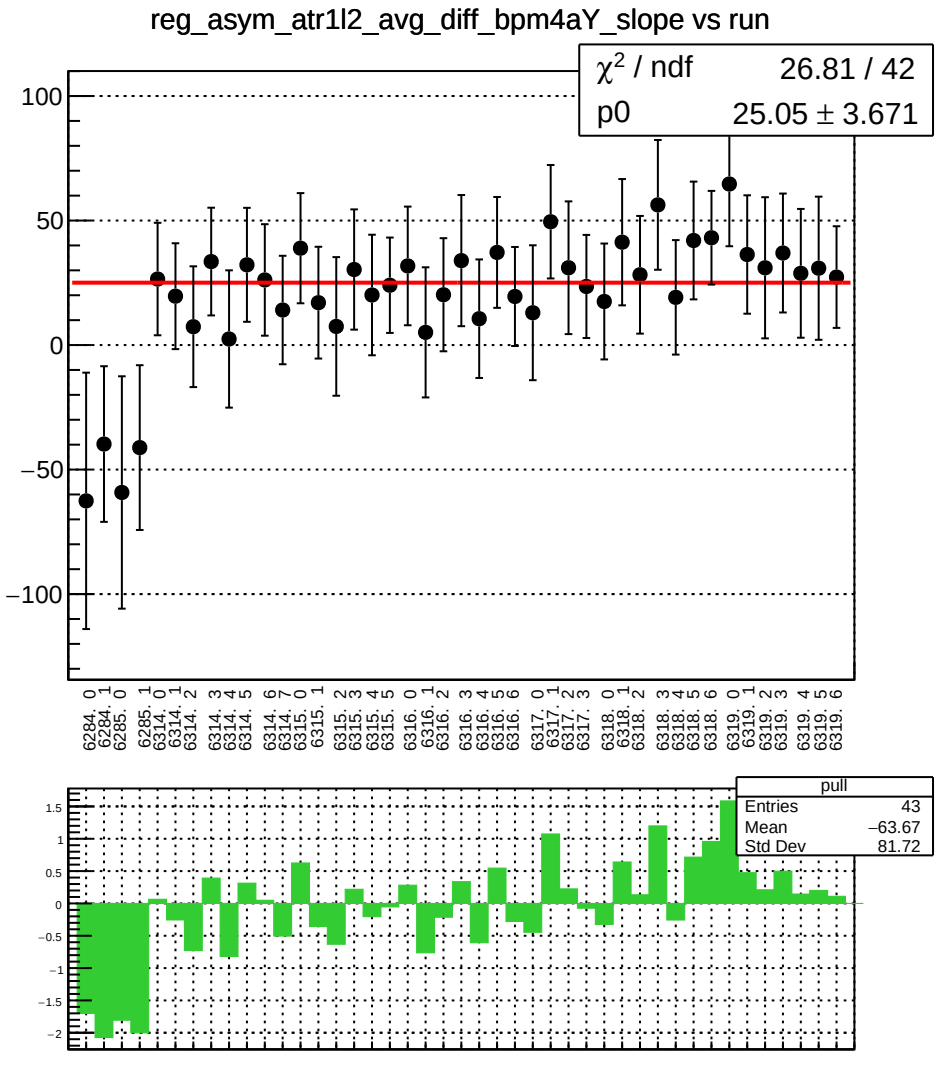

pull1D
Entries 43
Mean −0.05979
Std Dev 0.7921
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

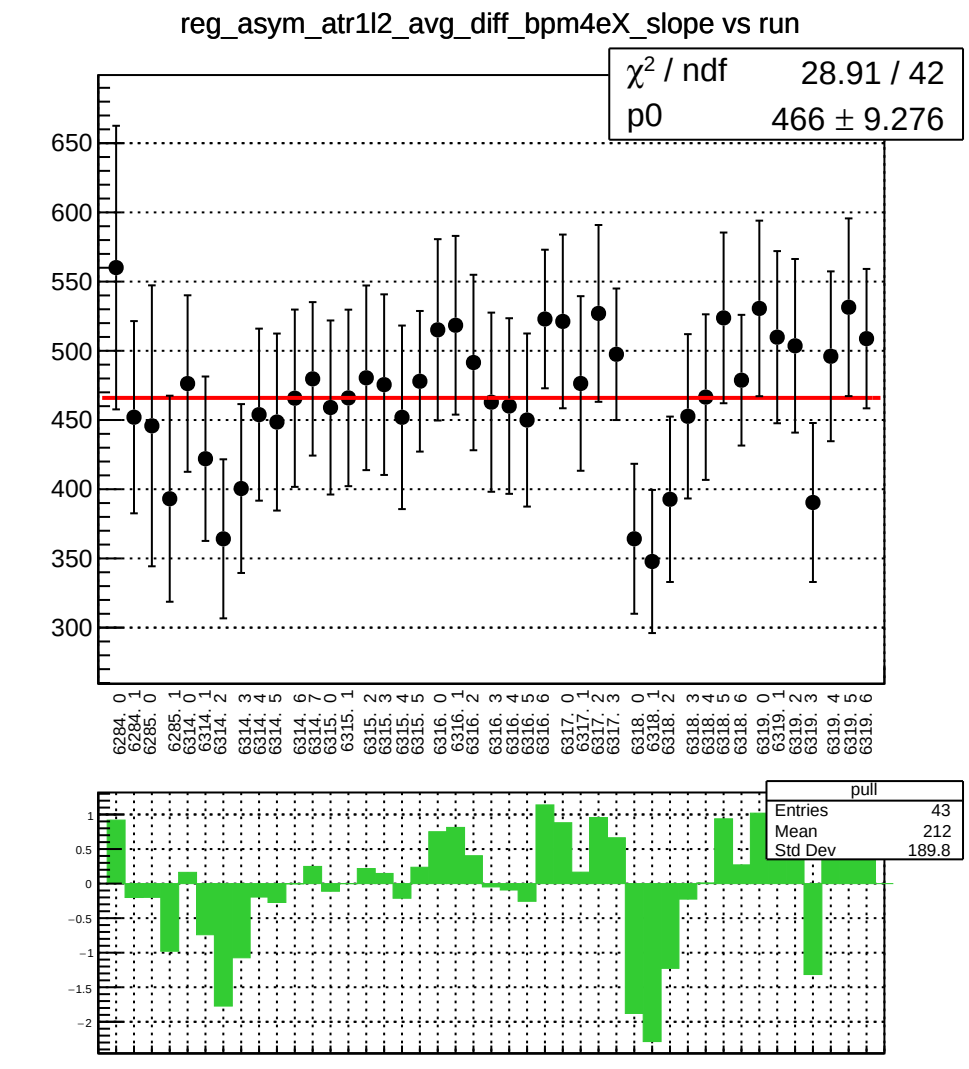

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.71 / 42
p0 −162.7 ± 7.398
0
−50
−100
−150
−200
−250
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −94.24
Std Dev 111.2
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01359
Std Dev 0.4989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

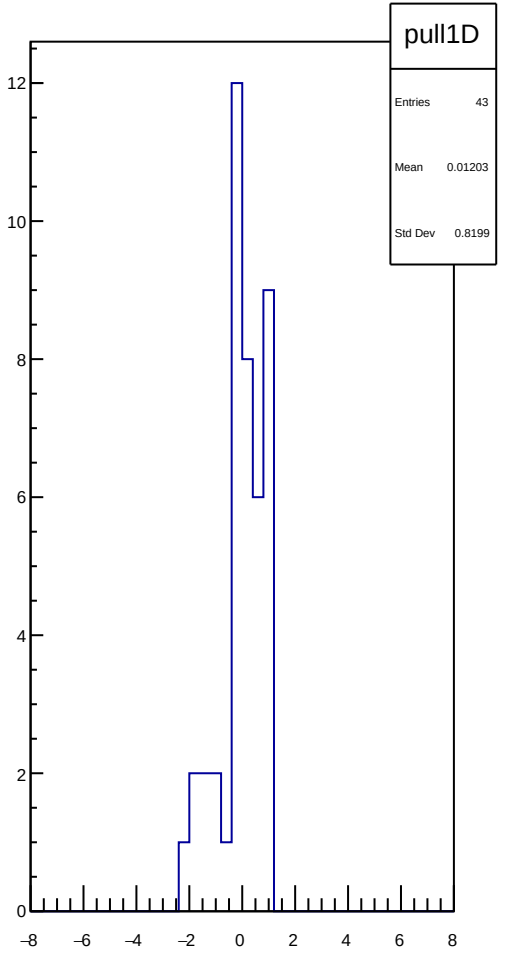

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.09 / 42
p0 180.4 ± 0.5818
200
195
190
185
180
175
170
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −56.78
Std Dev 72.78
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.06279
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

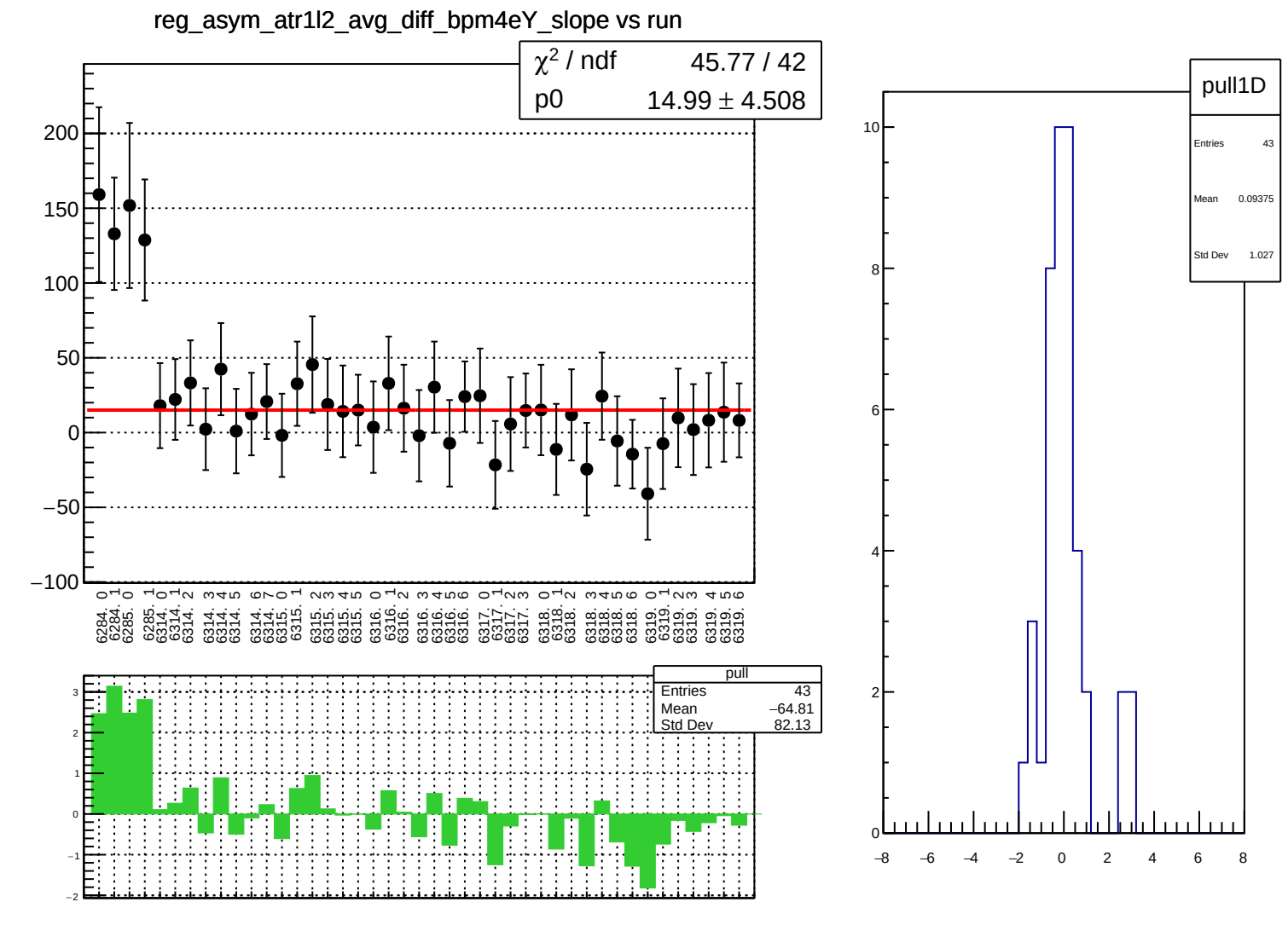

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 29.77 / 42
p0 −477.9 ± 8.605
−300
−350
−400
−450
−500
−550
−600
−650
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 507.7
Std Dev 486.5
2
1.5
1
0.5
0
−0.5
−1

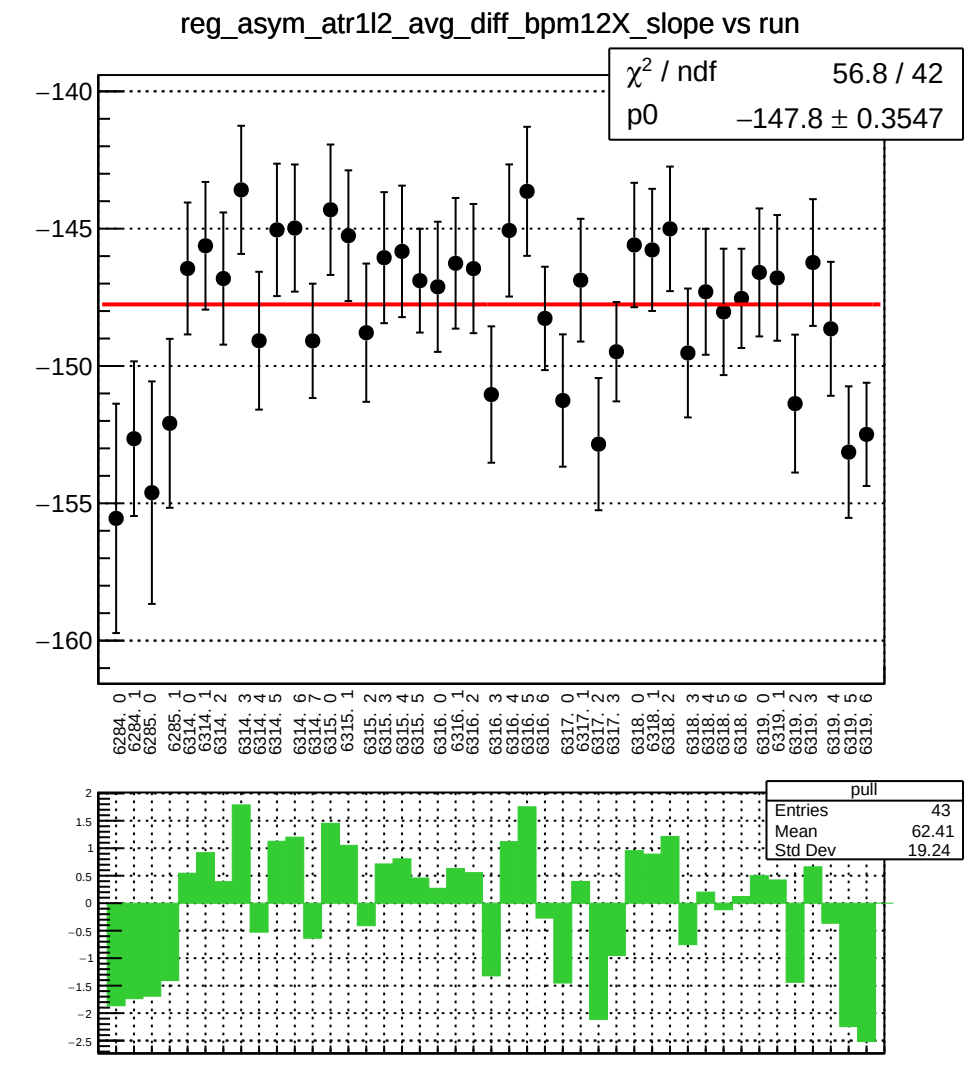

pull1D
Entries 43
Mean −0.005762
Std Dev 0.832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

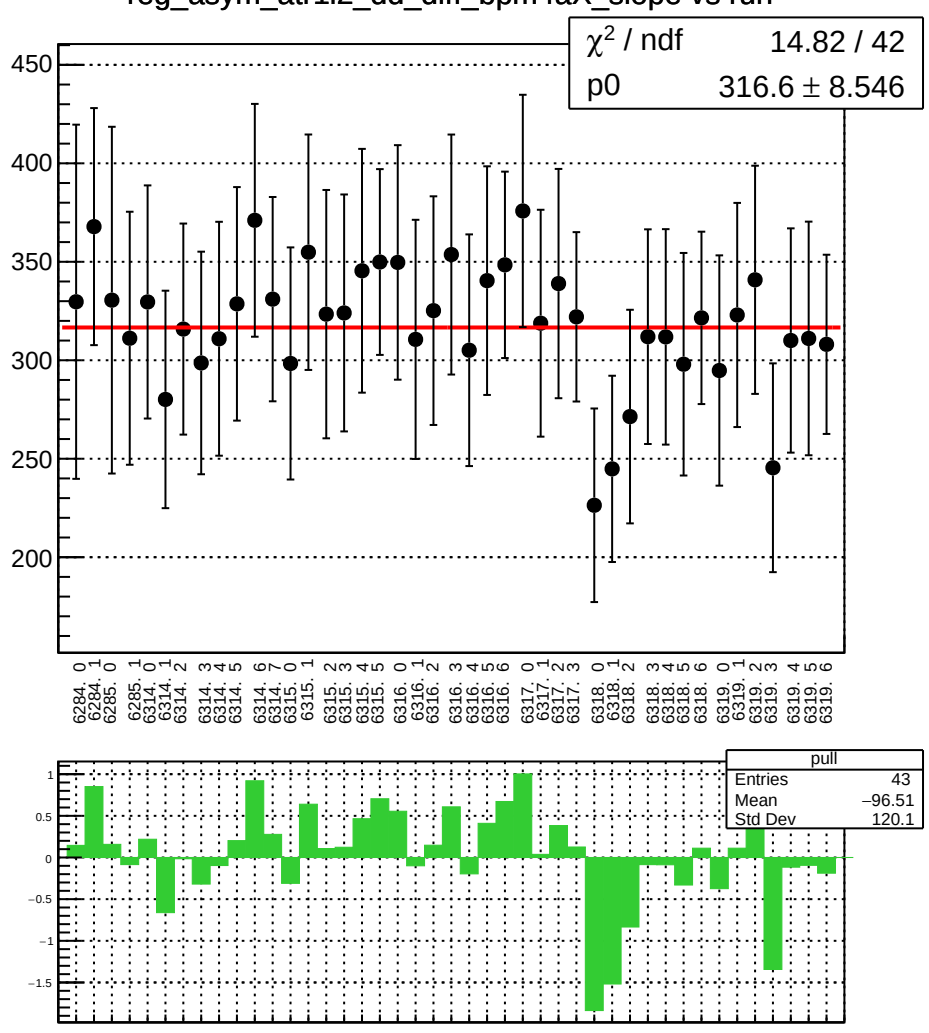

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.81 / 42
p0 25.05 ± 3.671
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −63.67
Std Dev 81.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.07219
Std Dev 0.7864
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

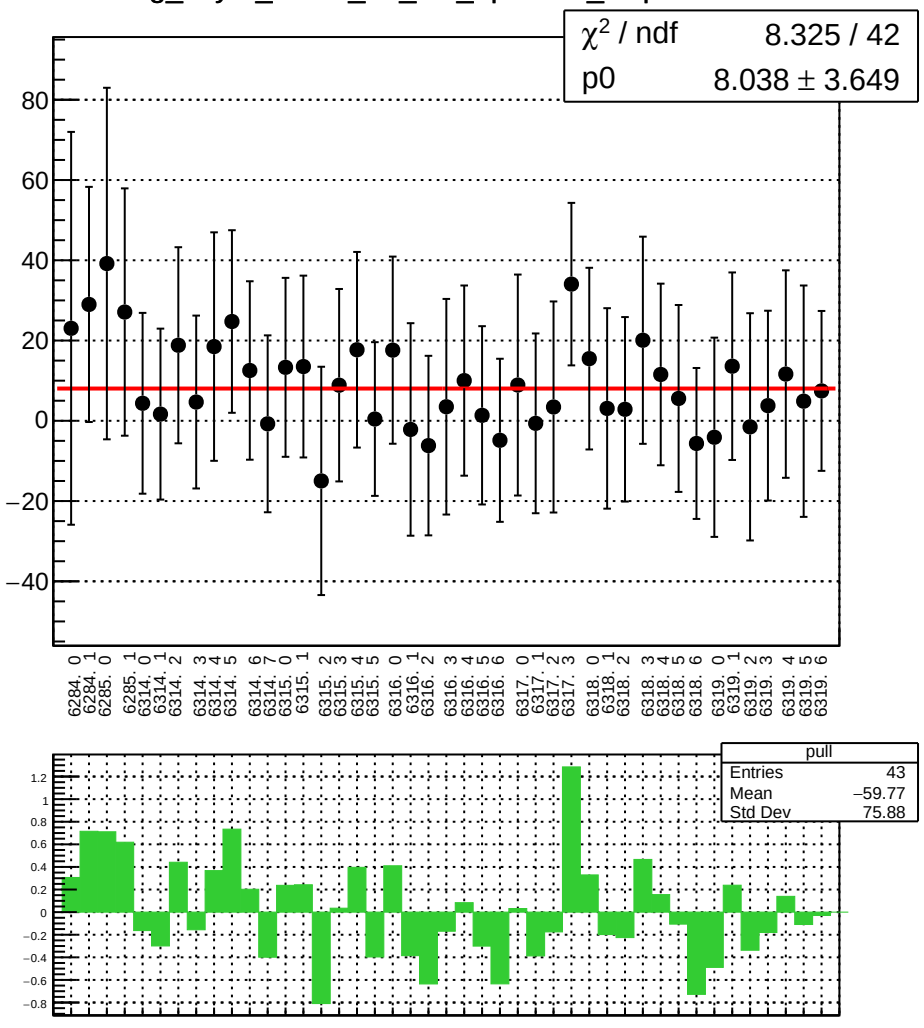

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.91 / 42
p0 466 ± 9.276
650
600
550
500
450
400
350
300
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 212
Std Dev 189.8
1
0.5
0
−0.5
−1
−1.5
−2

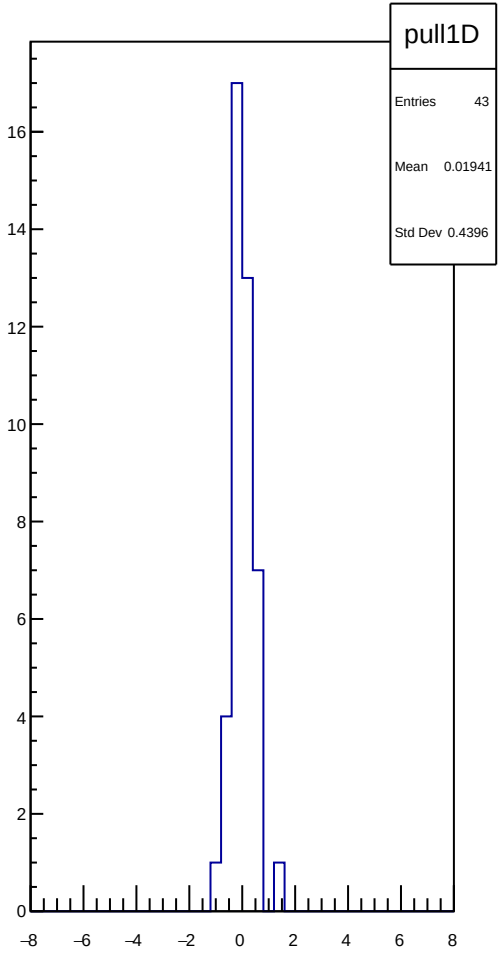

pull1D
Entries 43
Mean 0.01203
Std Dev 0.8199
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

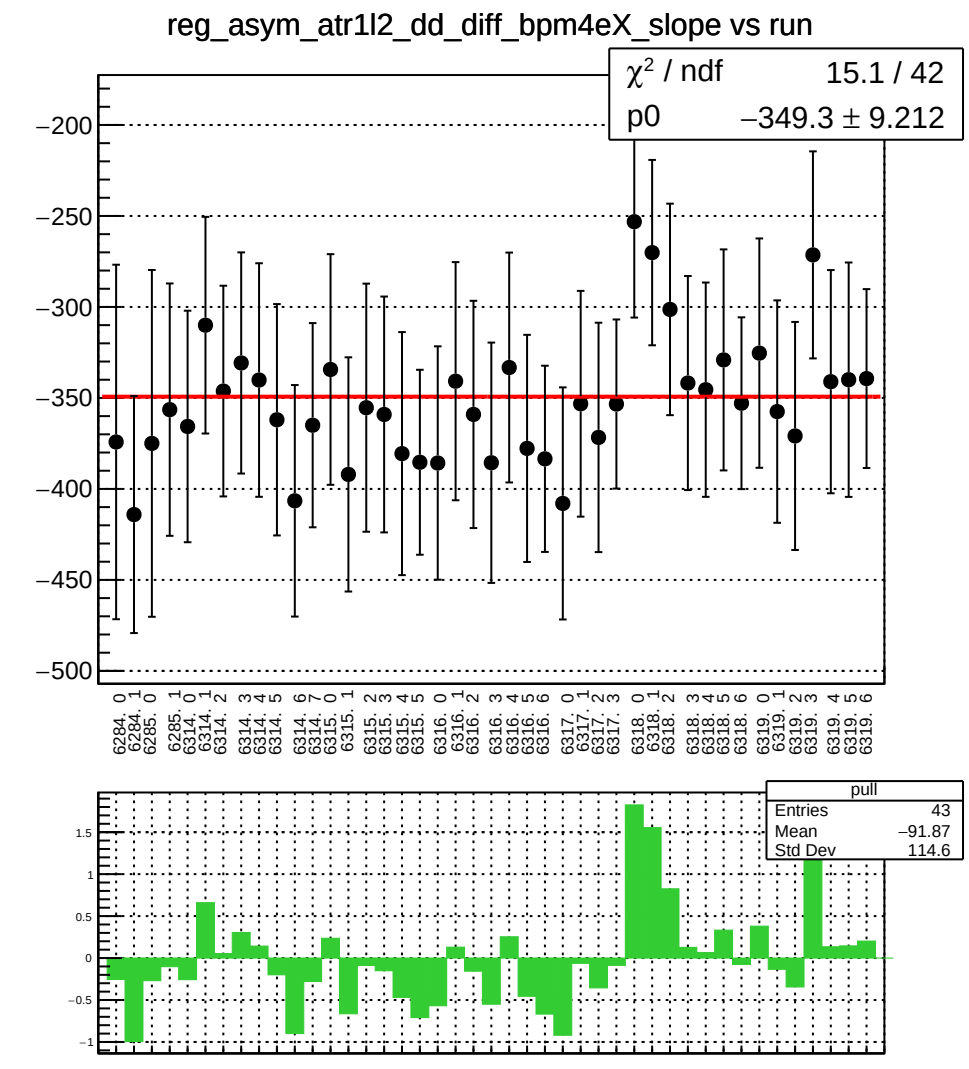

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.77 / 42
p0 14.99 ± 4.508
200
150
100
50
0
−50
−100
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −64.81
Std Dev 82.13
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.09375
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

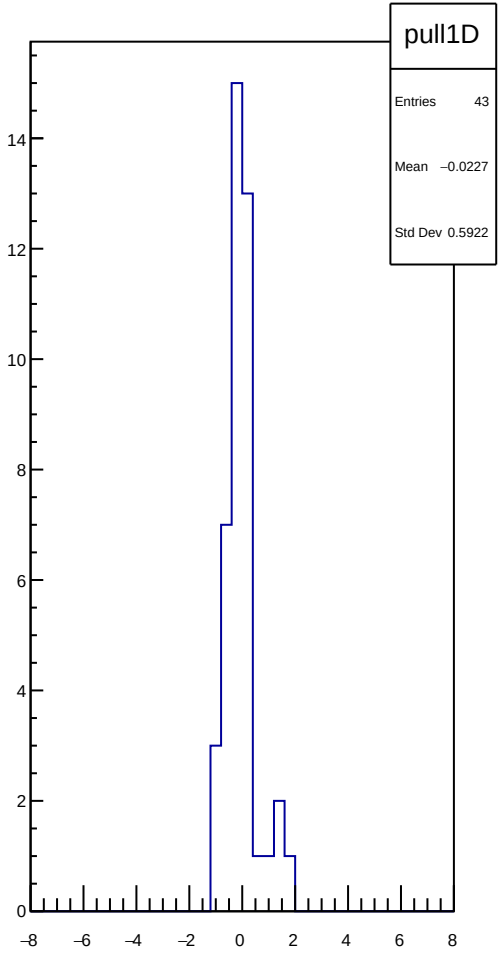

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 56.8 / 42
p0 −147.8 ± 0.3547
−140
−145
−150
−155
−160
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 62.41
Std Dev 19.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.03901
Std Dev 1.149
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

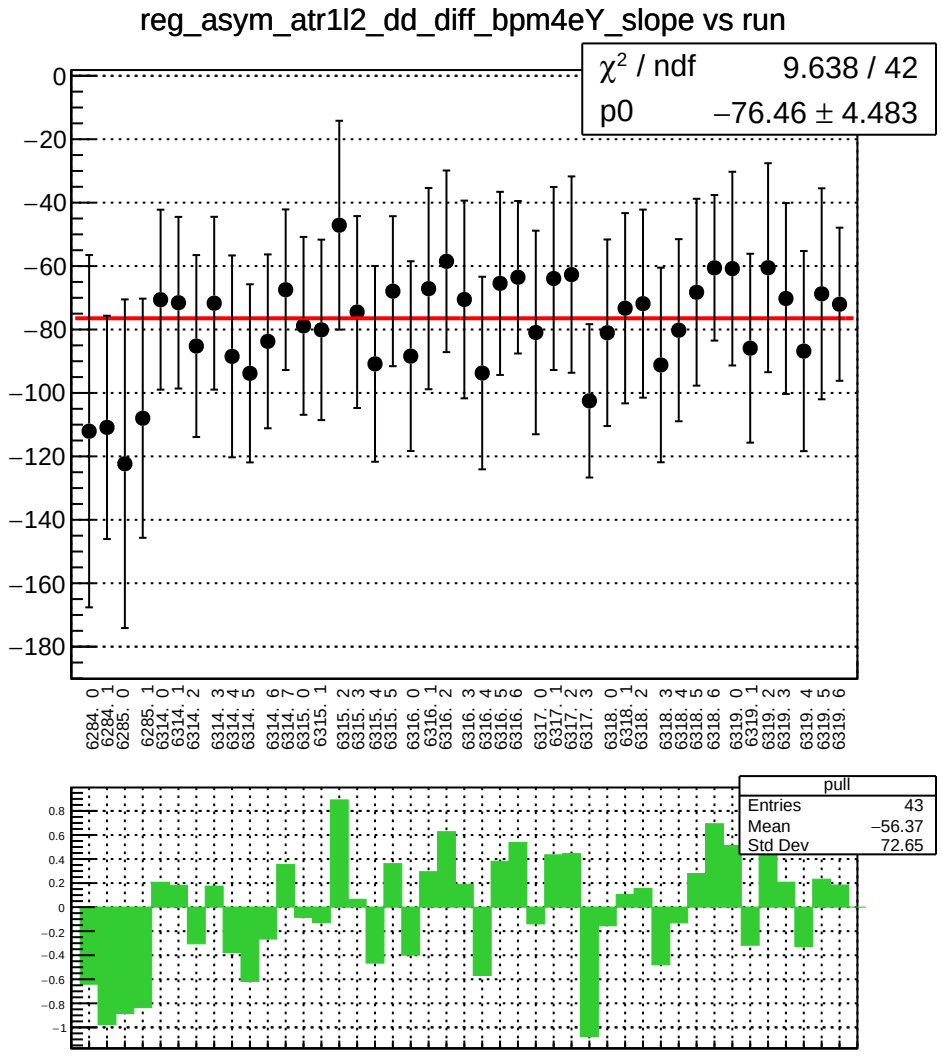

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.82 / 42
p0 316.6 ± 8.546
450
400
350
300
250
200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −96.51
Std Dev 120.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01872
Std Dev 0.5868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

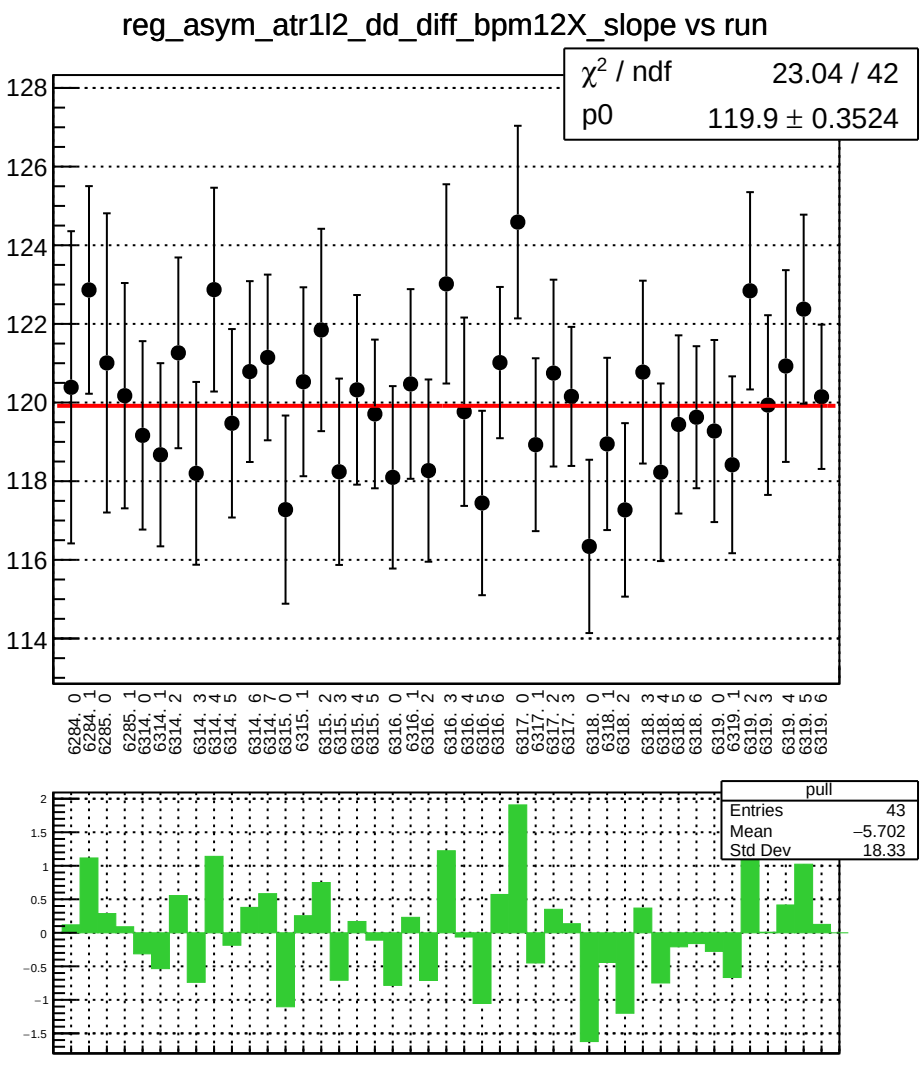

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.325 / 42
p0 8.038 ± 3.649
pull
Entries 43
Mean −59.77
Std Dev 75.88

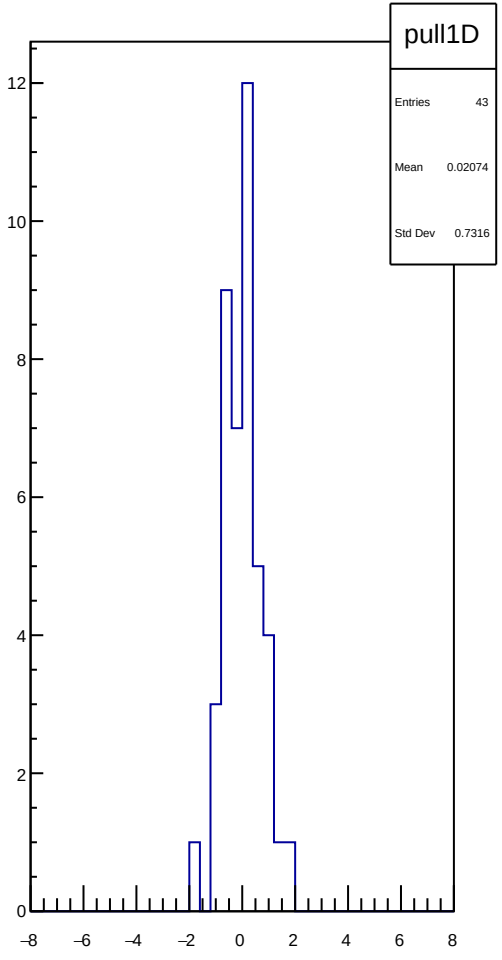

pull1D
Entries 43
Mean 0.01941
Std Dev 0.4396

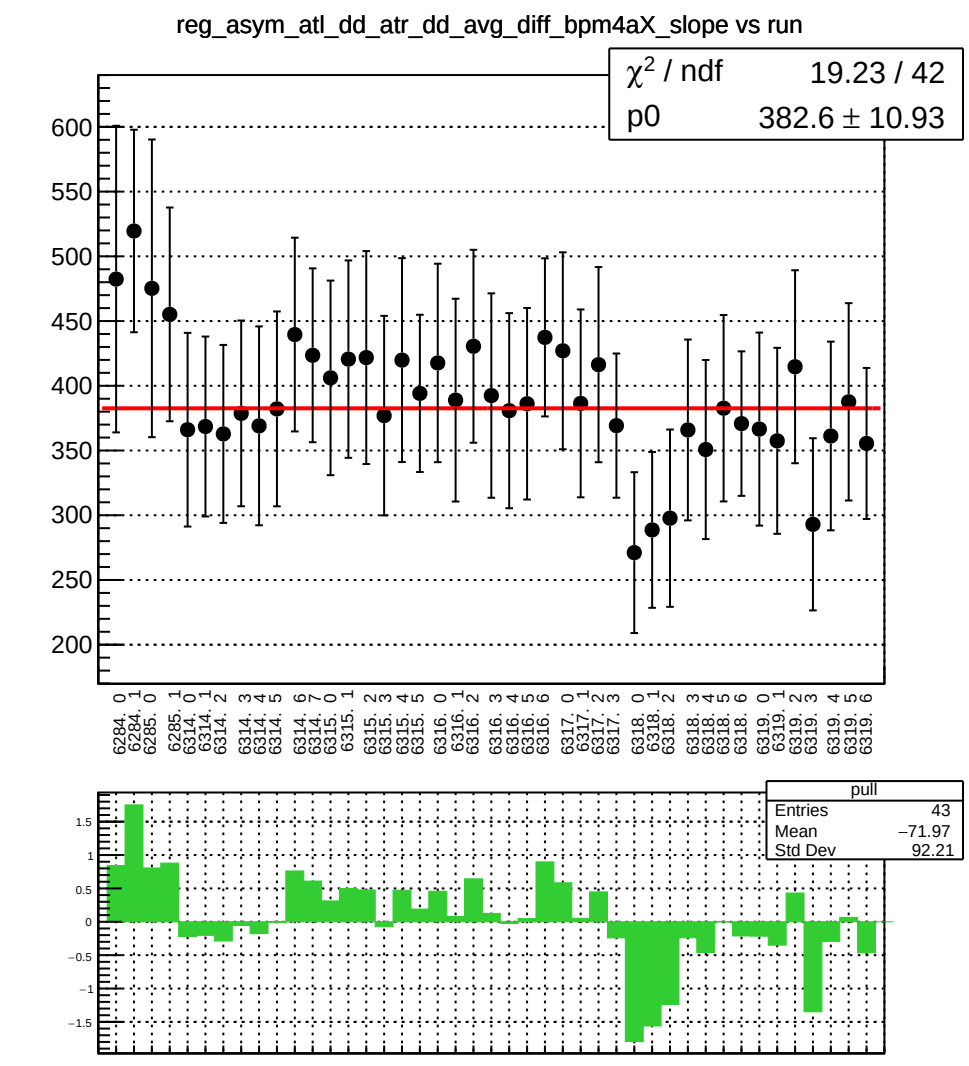

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.1 / 42
p0 −349.3 ± 9.212
−200
−250
−300
−350
−400
−450
−500
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −91.87
Std Dev 114.6
1.5
1
0.5
0
−0.5
−1

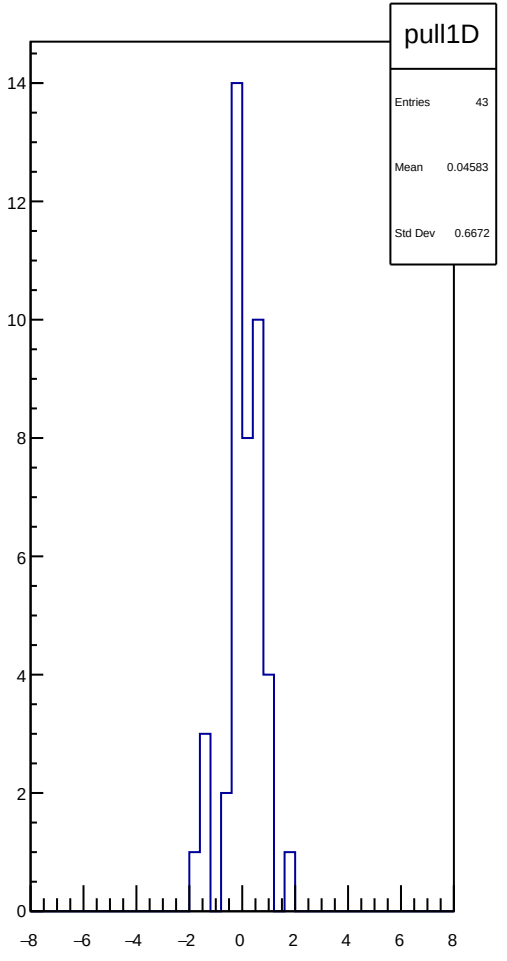

pull1D
Entries 43
Mean −0.0227
Std Dev 0.5922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

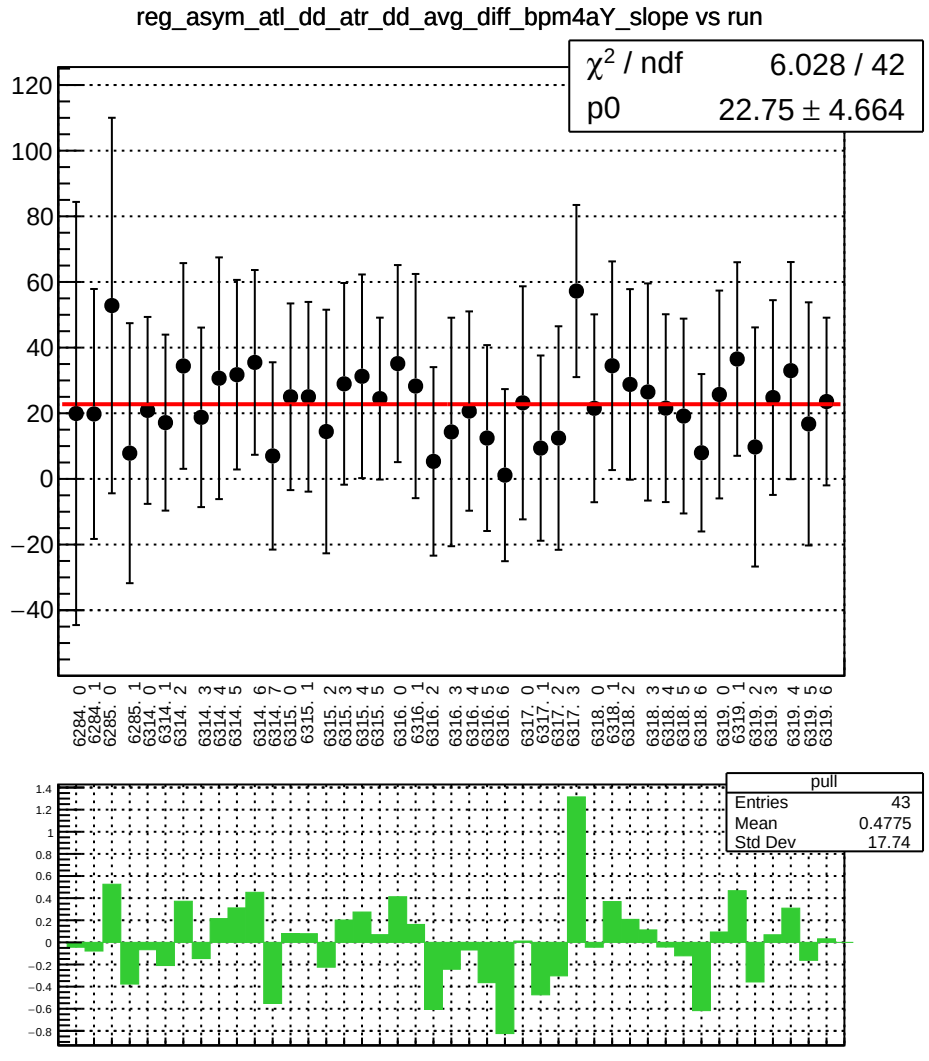

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.638 / 42
p0 −76.46 ± 4.483
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −56.37
Std Dev 72.65
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean −0.02731
Std Dev 0.4726
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

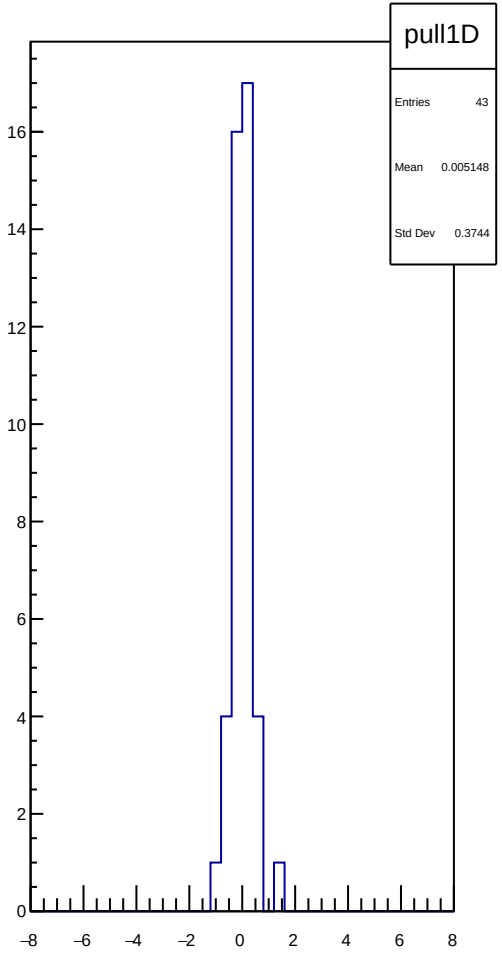

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.04 / 42
p0 119.9 ± 0.3524
128
126
124
122
120
118
116
114
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −5.702
Std Dev 18.33
2
1.5
1
0.5
0
−0.5
−1
−1.5

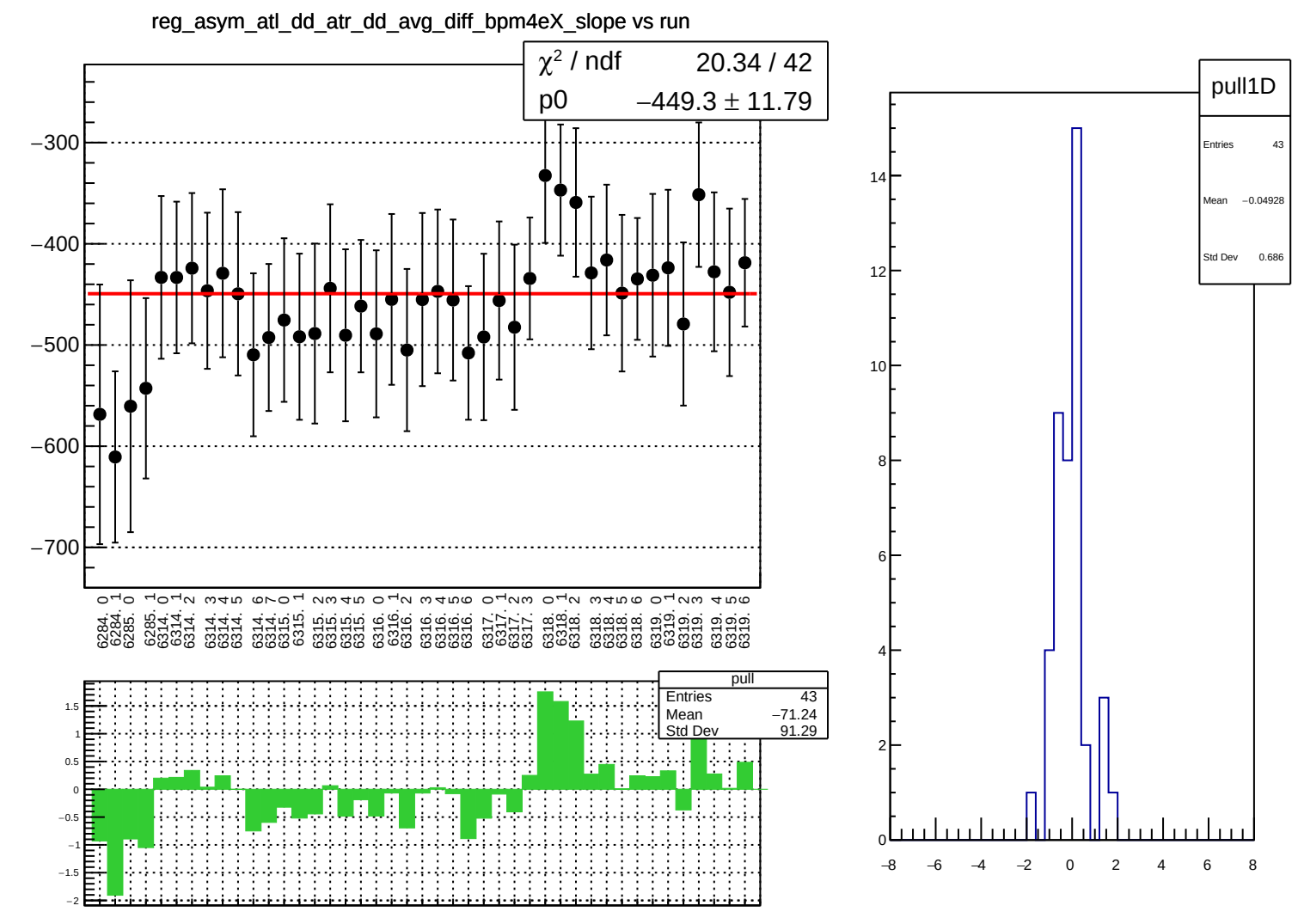

pull1D
Entries 43
Mean 0.02074
Std Dev 0.7316
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

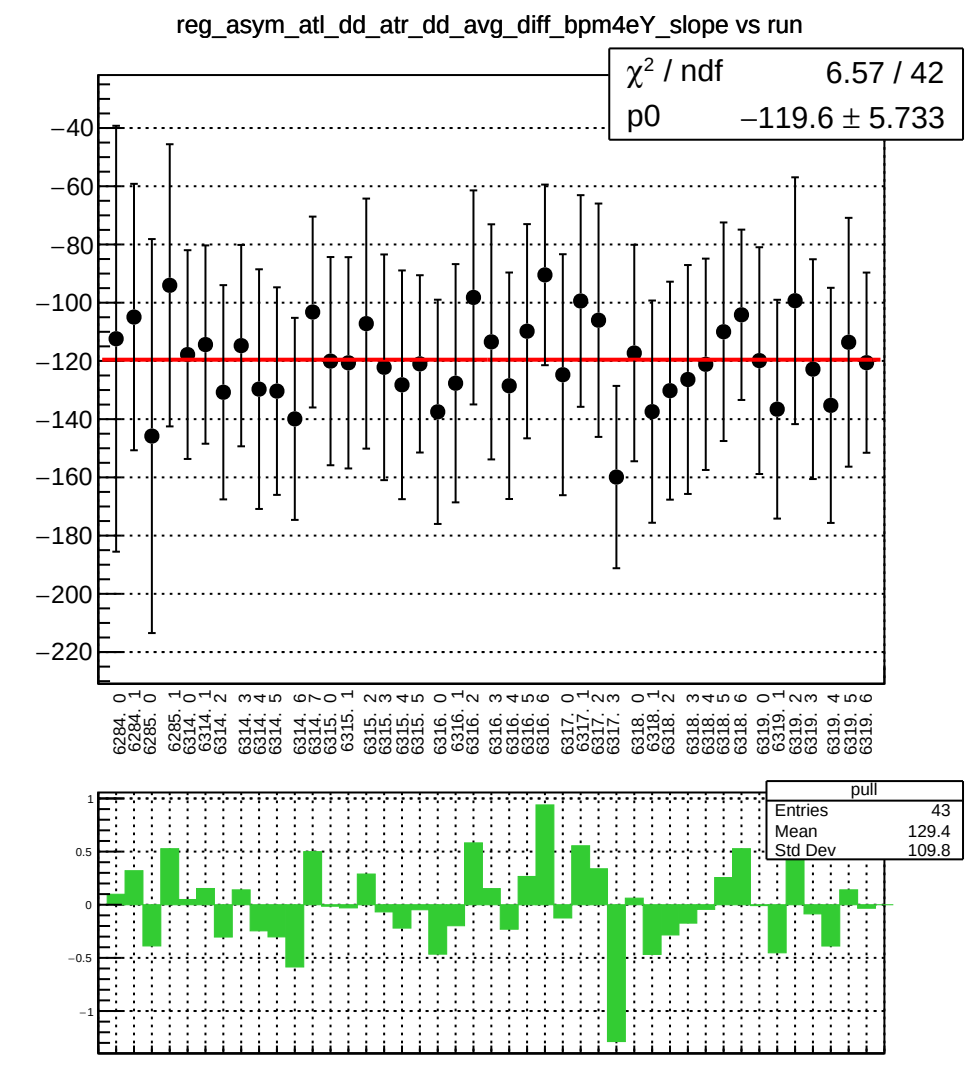

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.23 / 42
p0 382.6 ± 10.93
600
550
500
450
400
350
300
250
200
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −71.97
Std Dev 92.21
1.5
1
0.5
0
−0.5
−1
−1.5

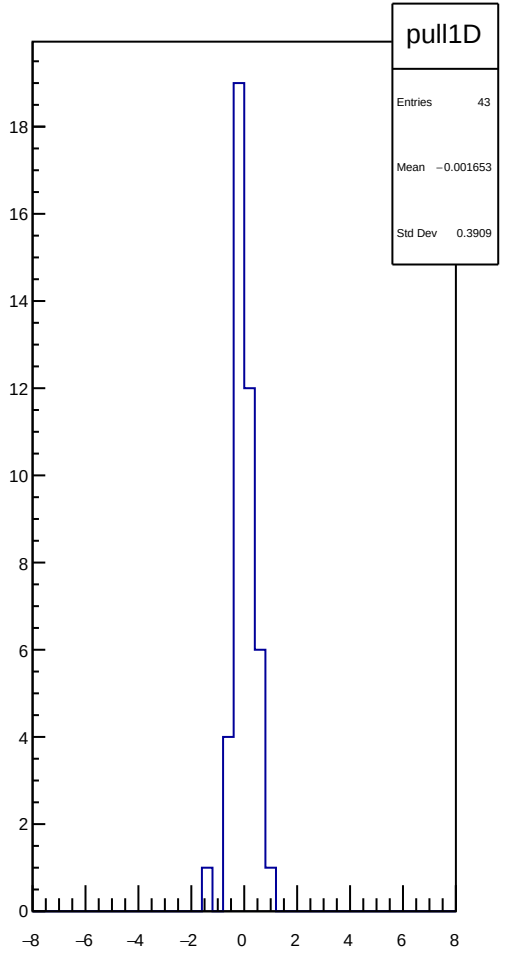

pull1D
Entries 43
Mean 0.04583
Std Dev 0.6672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

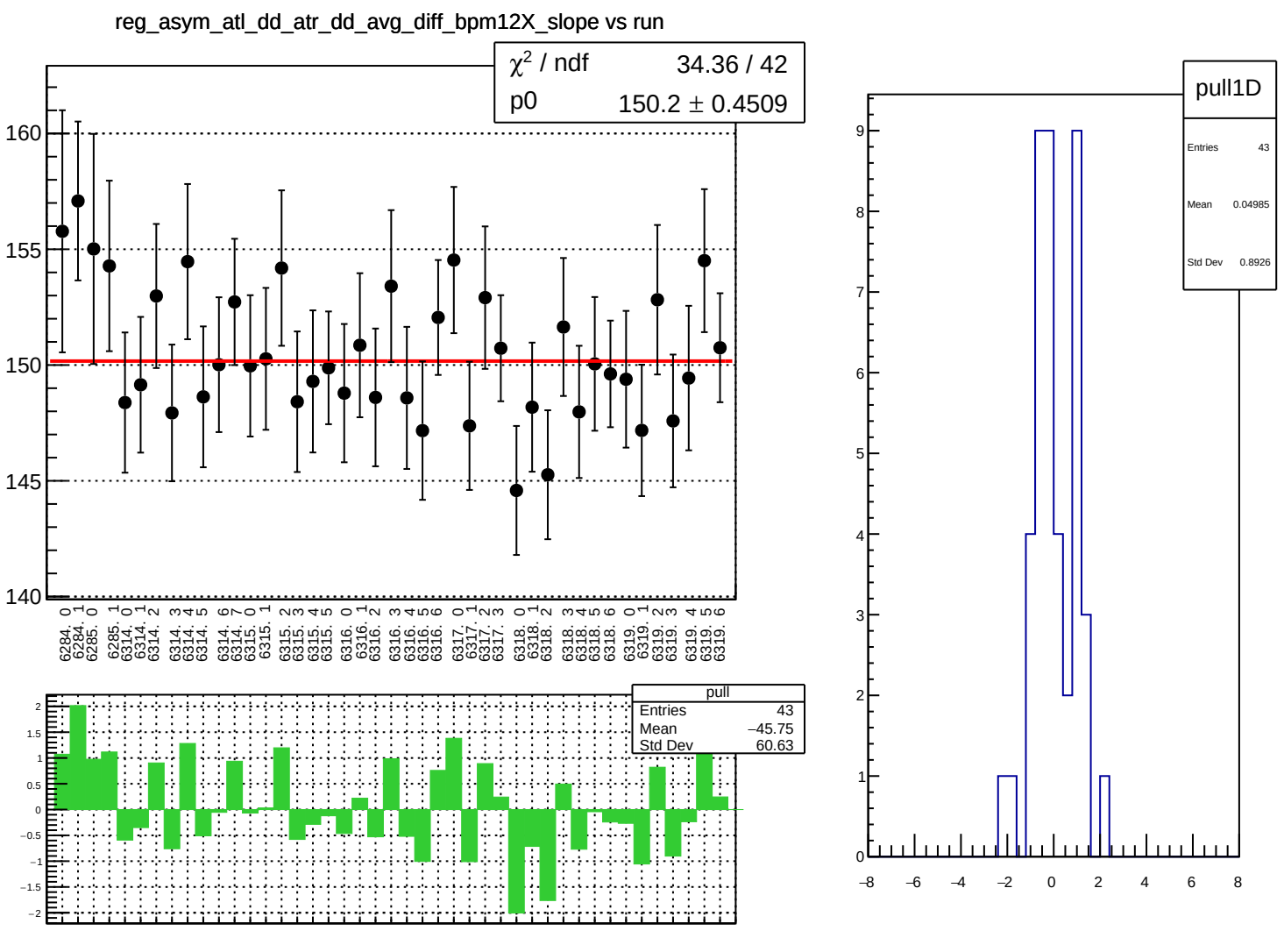

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.028 / 42
p0 22.75 ± 4.664
pull
Entries 43
Mean 0.4775
Std Dev 17.74

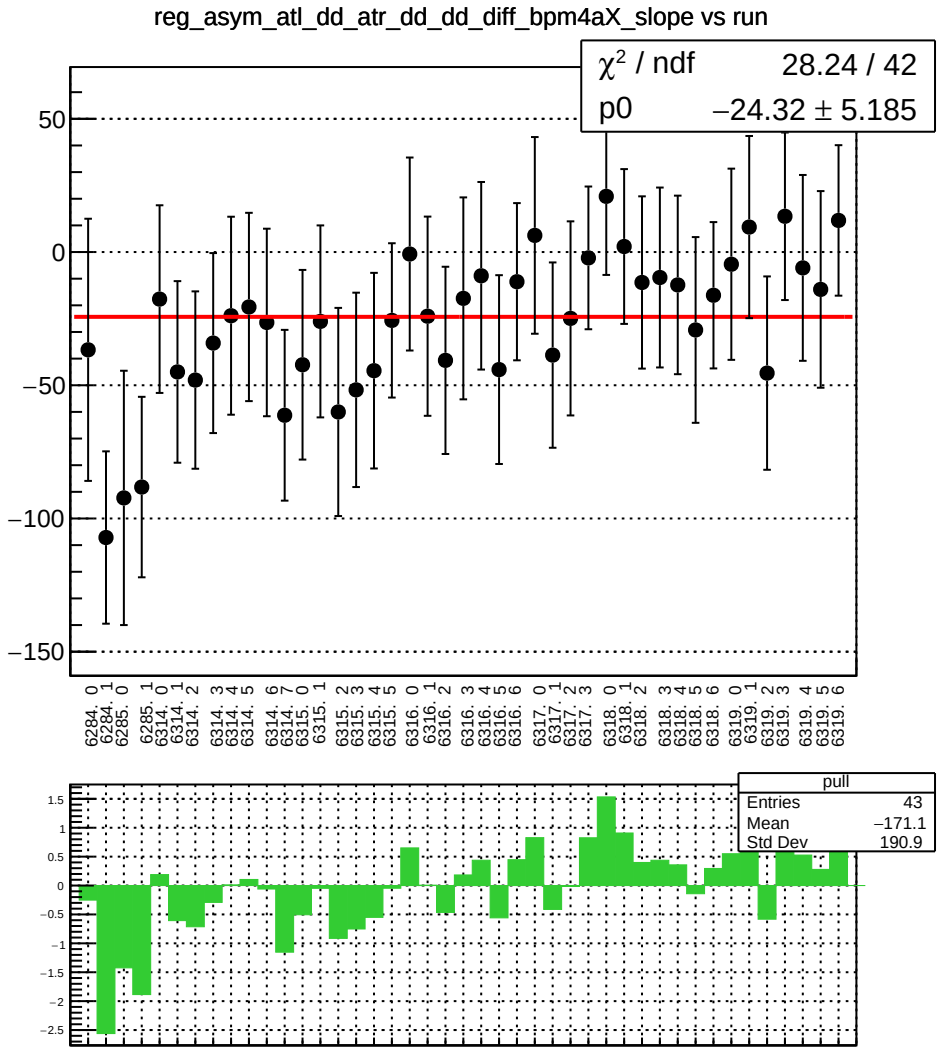

pull1D
Entries 43
Mean 0.005148
Std Dev 0.3744

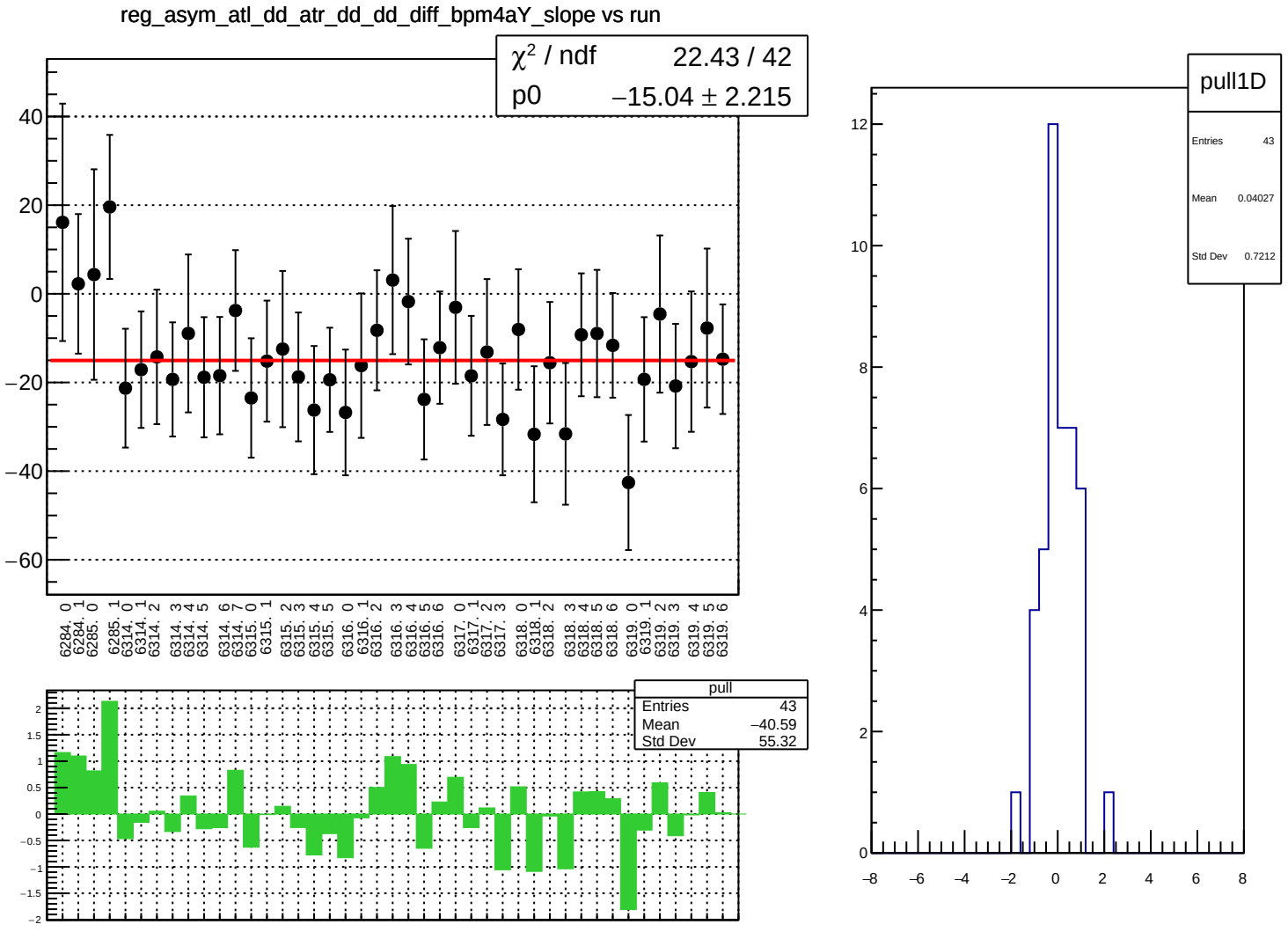

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.34 / 42
p0 −449.3 ± 11.79
−300
−400
−500
−600
−700
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −71.24
Std Dev 91.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04928
Std Dev 0.686
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

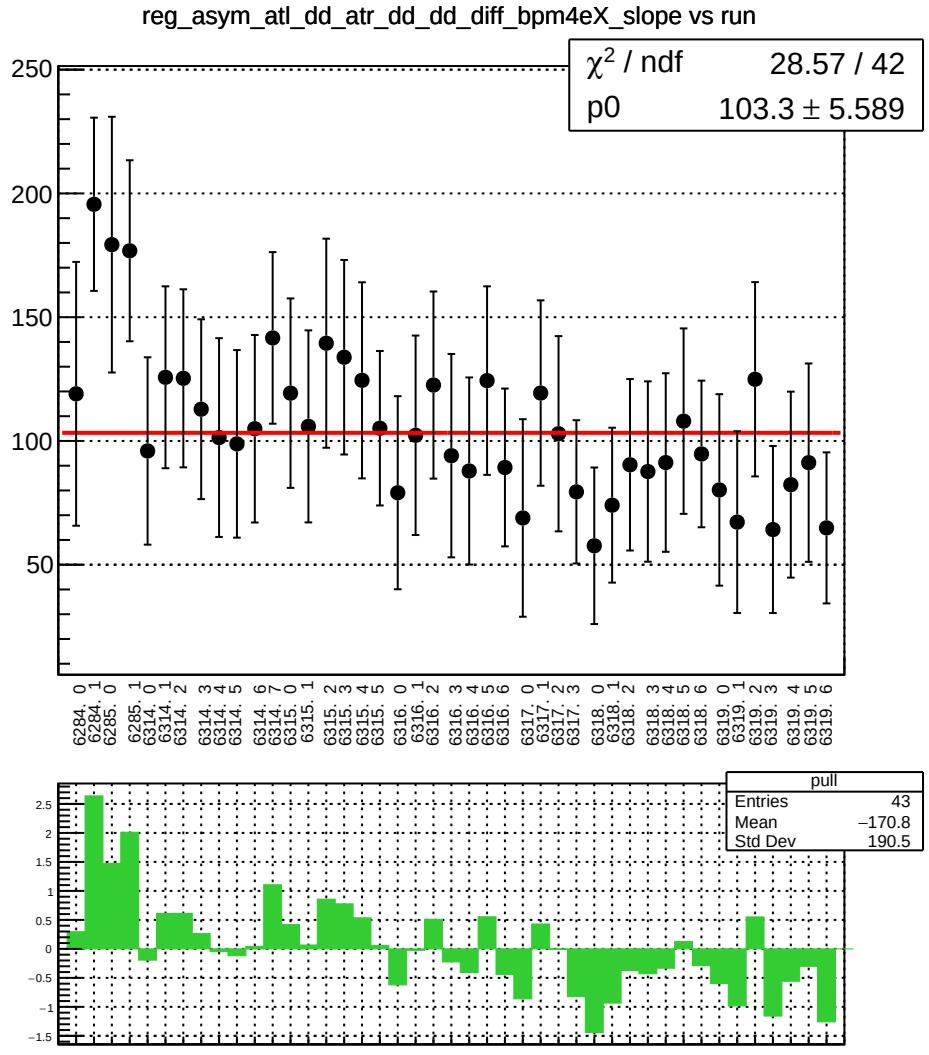

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.57 / 42
p0 −119.6 ± 5.733
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 129.4
Std Dev 109.8
1
0.5
0
−0.5
−1

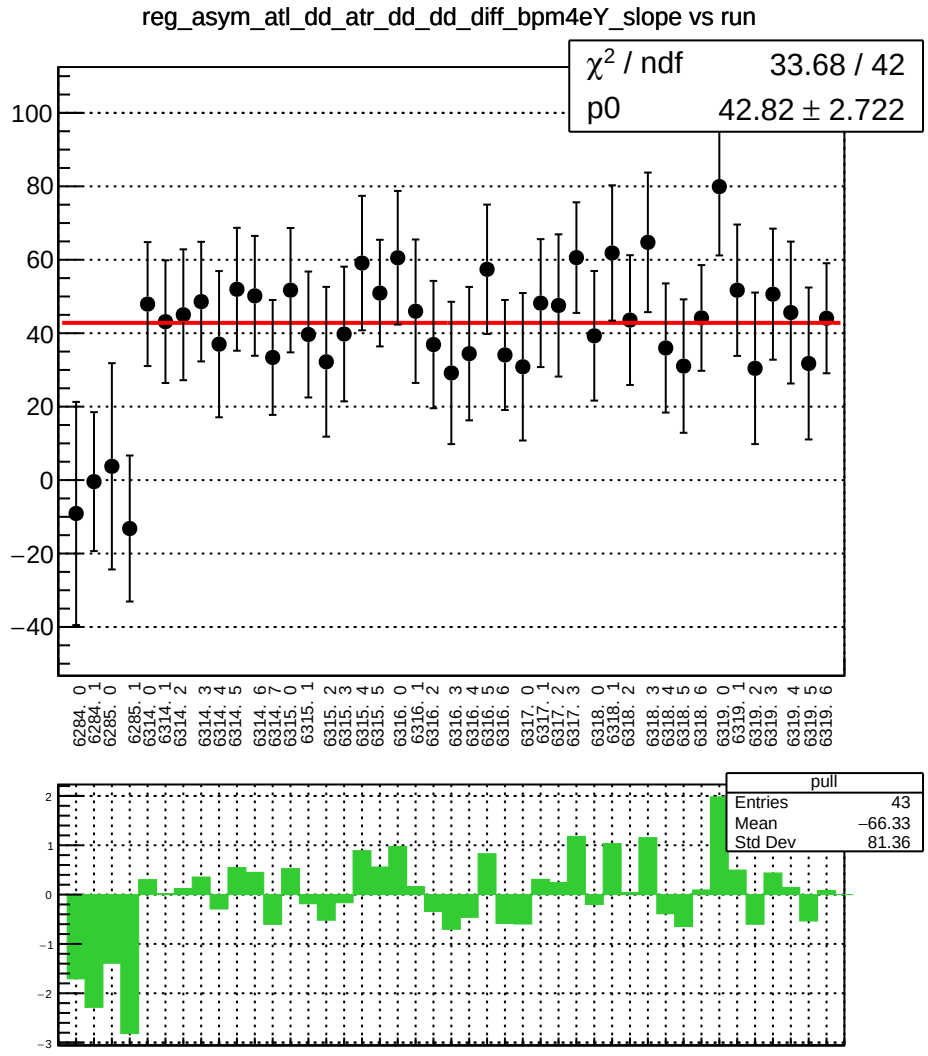

pull1D
Entries 43
Mean −0.001653
Std Dev 0.3909
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

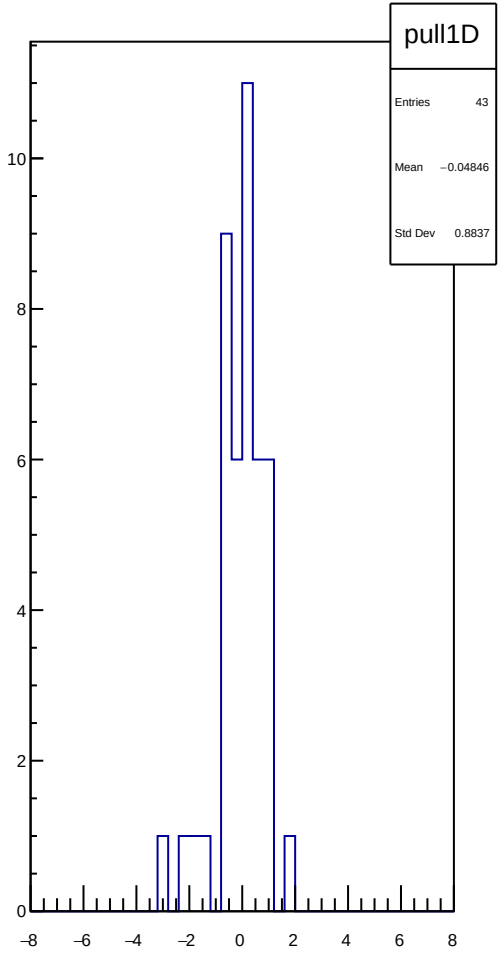

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 34.36 / 42
p0 150.2 ± 0.4509
160
155
150
145
140
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −45.75
Std Dev 60.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.04985
Std Dev 0.8926
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

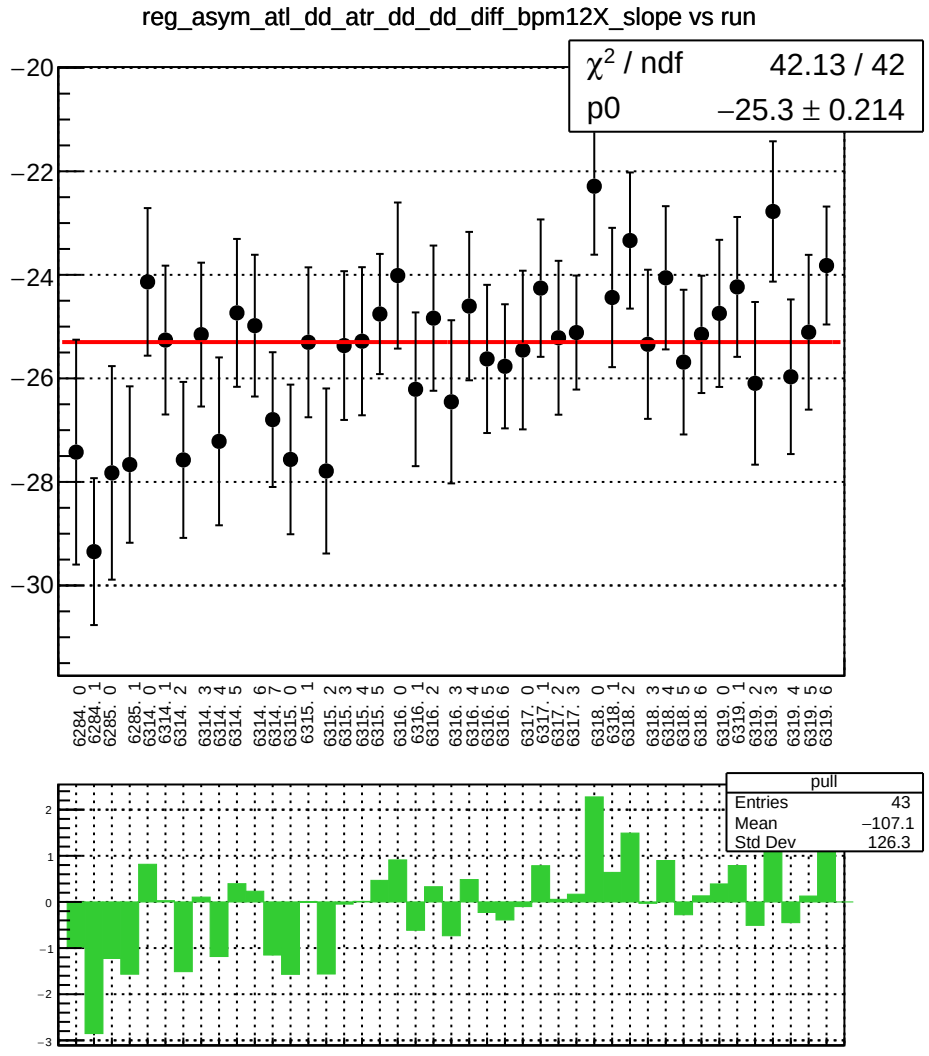

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.24 / 42
p0 −24.32 ± 5.185
50
0
−50
−100
−150
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −171.1
Std Dev 190.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.03484
Std Dev 0.8096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

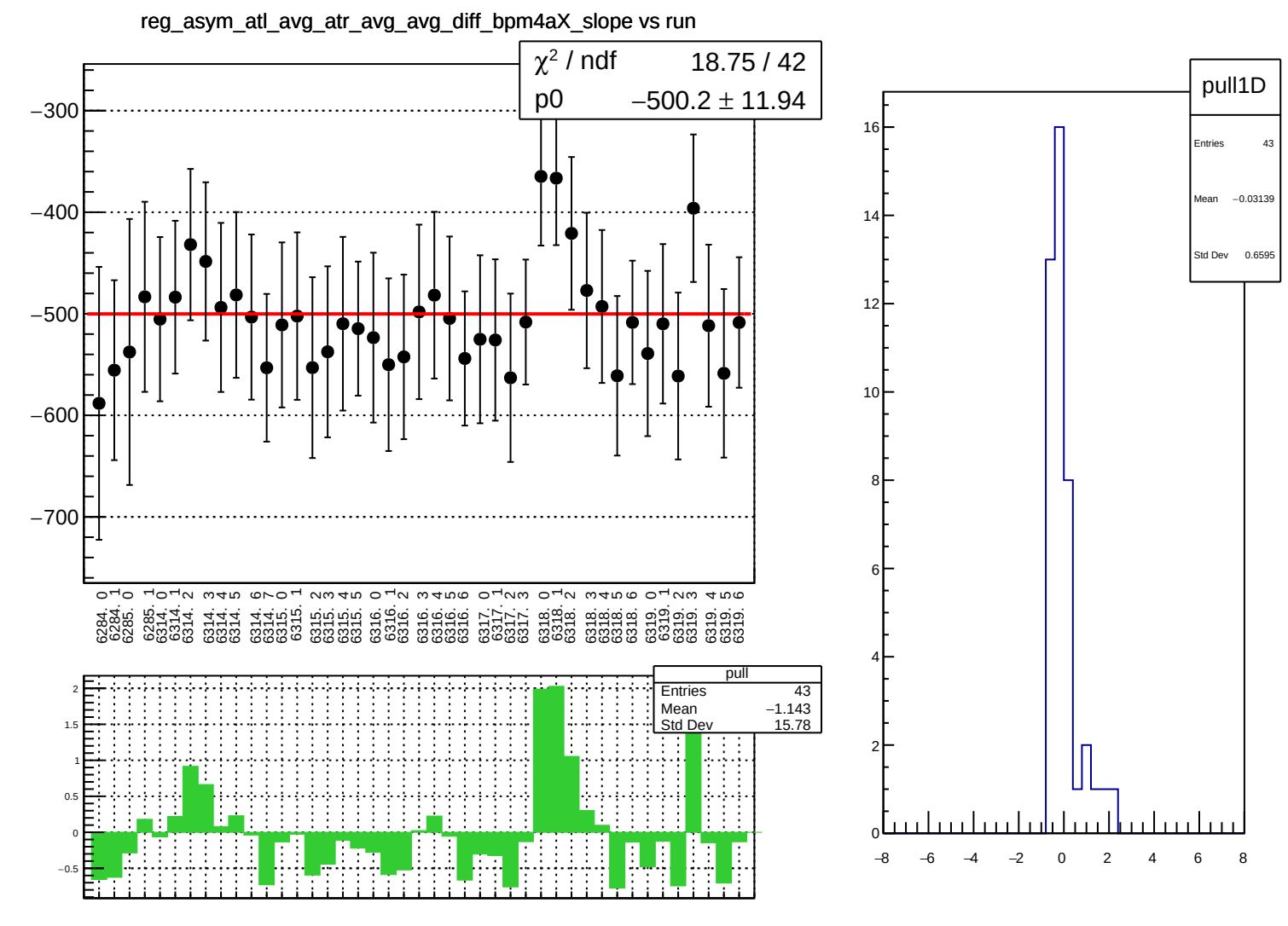

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.43 / 42
p0 −15.04 ± 2.215
40
20
0
−20
−40
−60
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −40.59
Std Dev 55.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.04027
Std Dev 0.7212
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

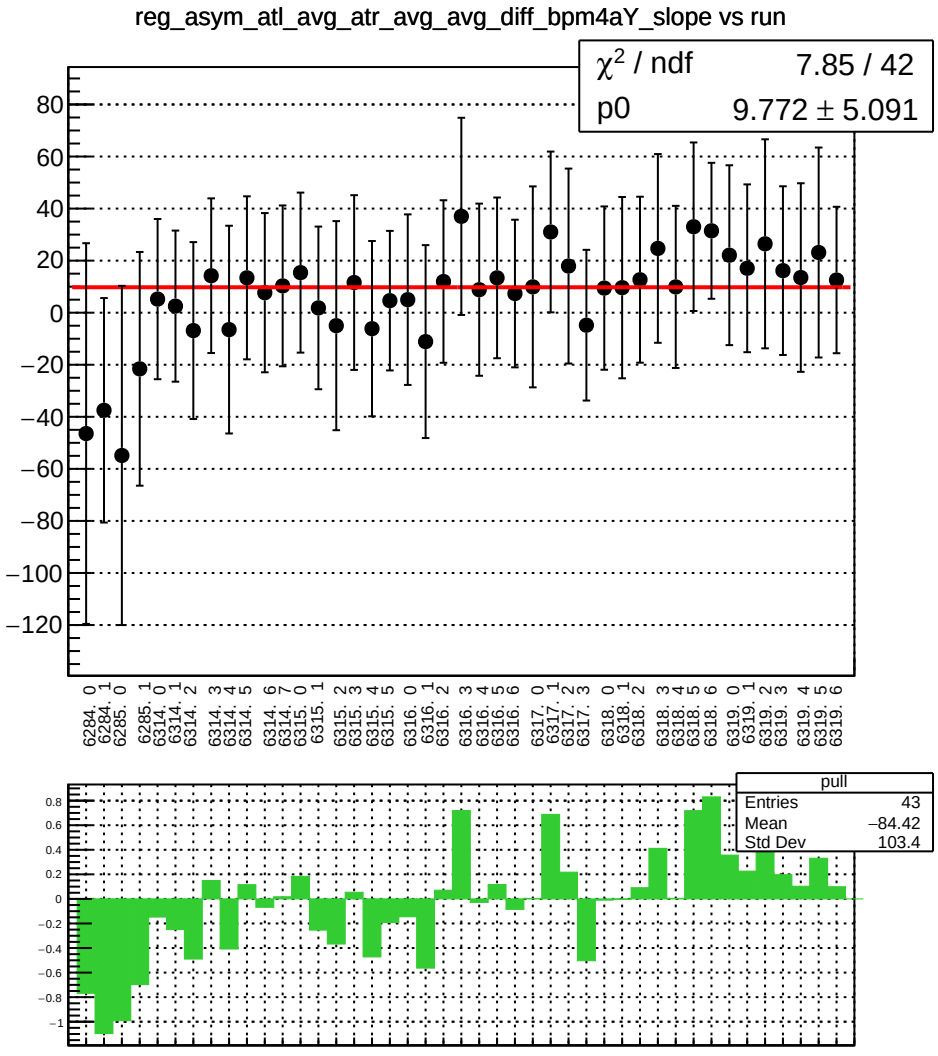

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.57 / 42
p0 103.3 ± 5.589
250
200
150
100
50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −170.8
Std Dev 190.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0351
Std Dev 0.8144
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

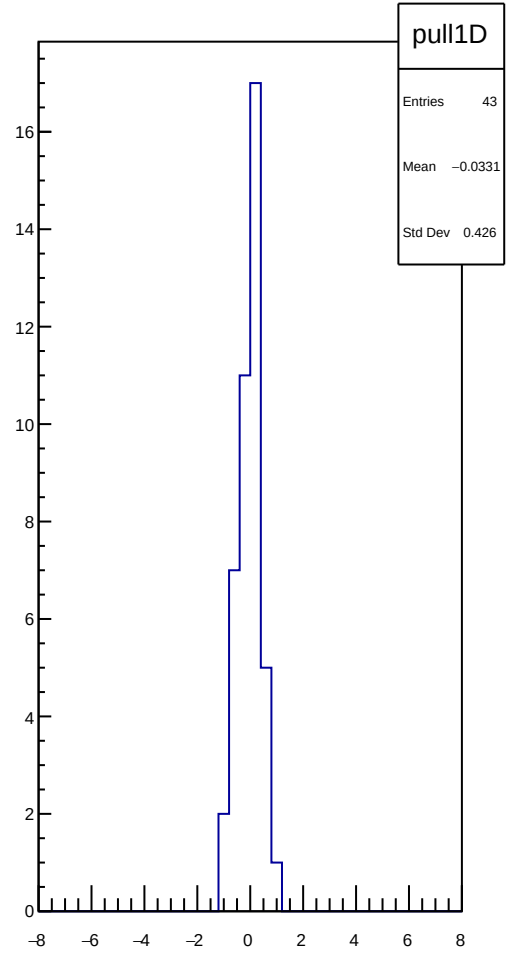

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.68 / 42
p0 42.82 ± 2.722
pull
Entries 43
Mean −66.33
Std Dev 81.36

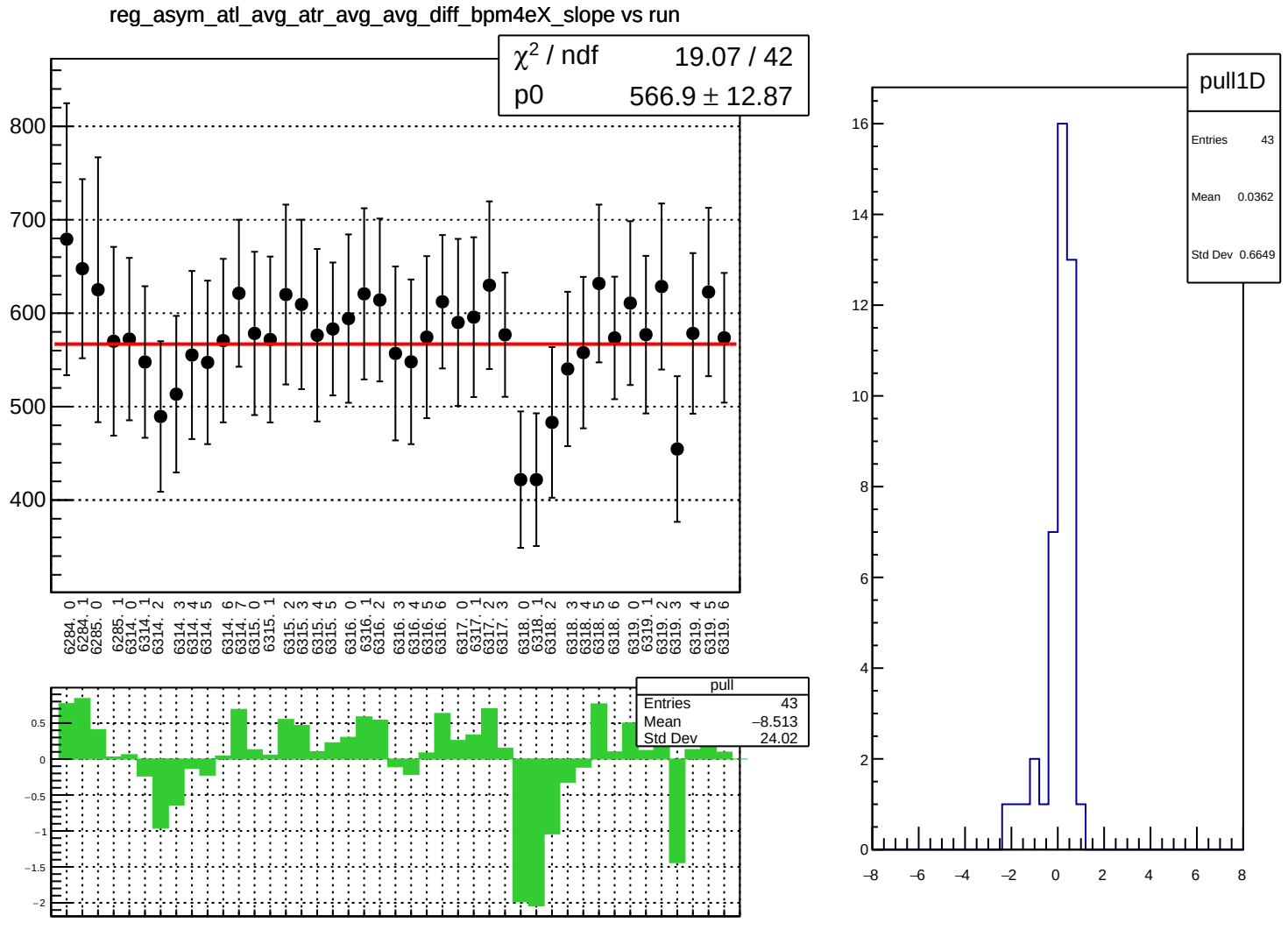

pull1D
Entries 43
Mean −0.04846
Std Dev 0.8837

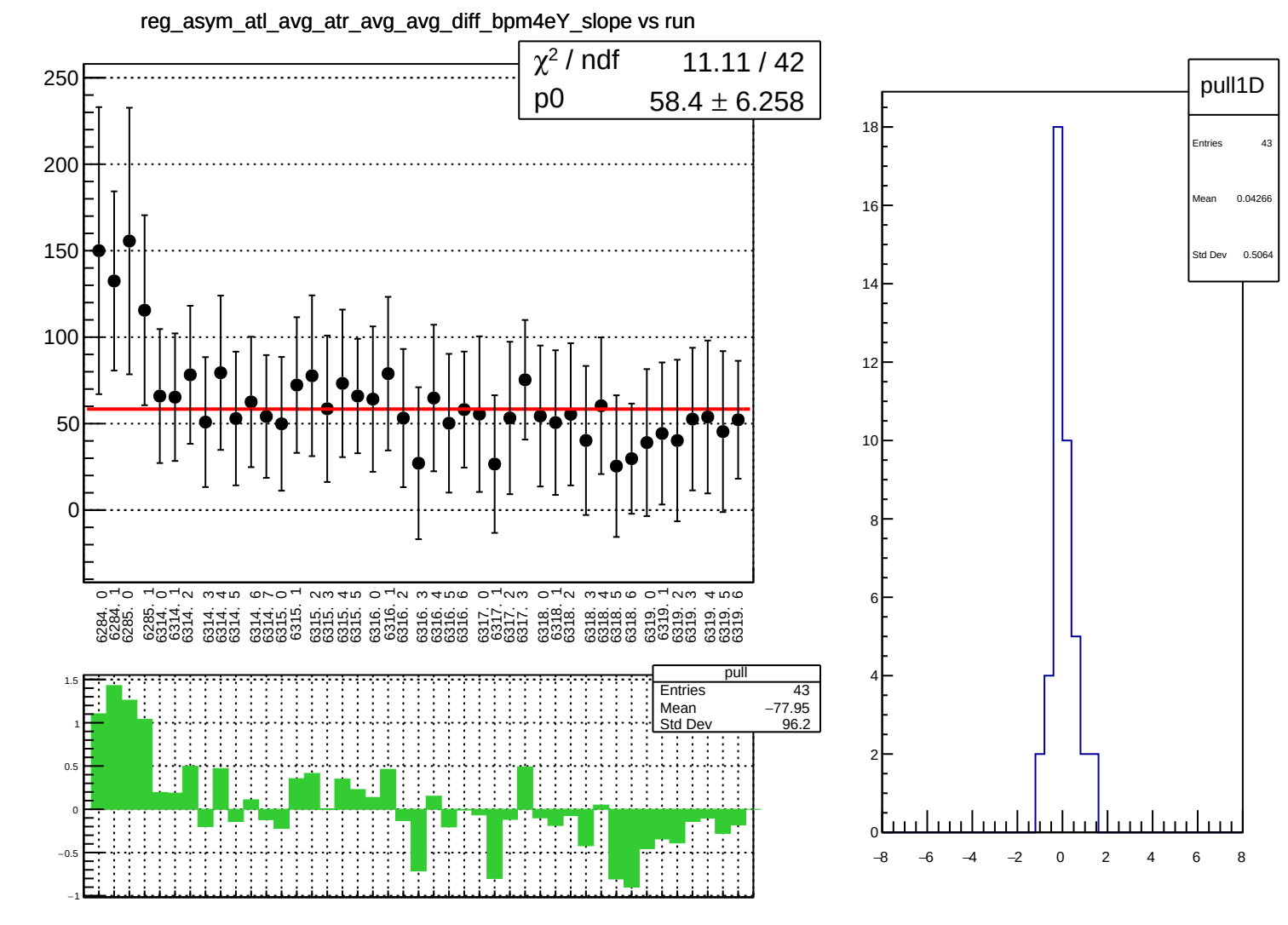

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 42.13 / 42
p0 −25.3 ± 0.214
pull
Entries 43
Mean −107.1
Std Dev 126.3
pull1D
Entries 43
Mean −0.05305
Std Dev 0.9884

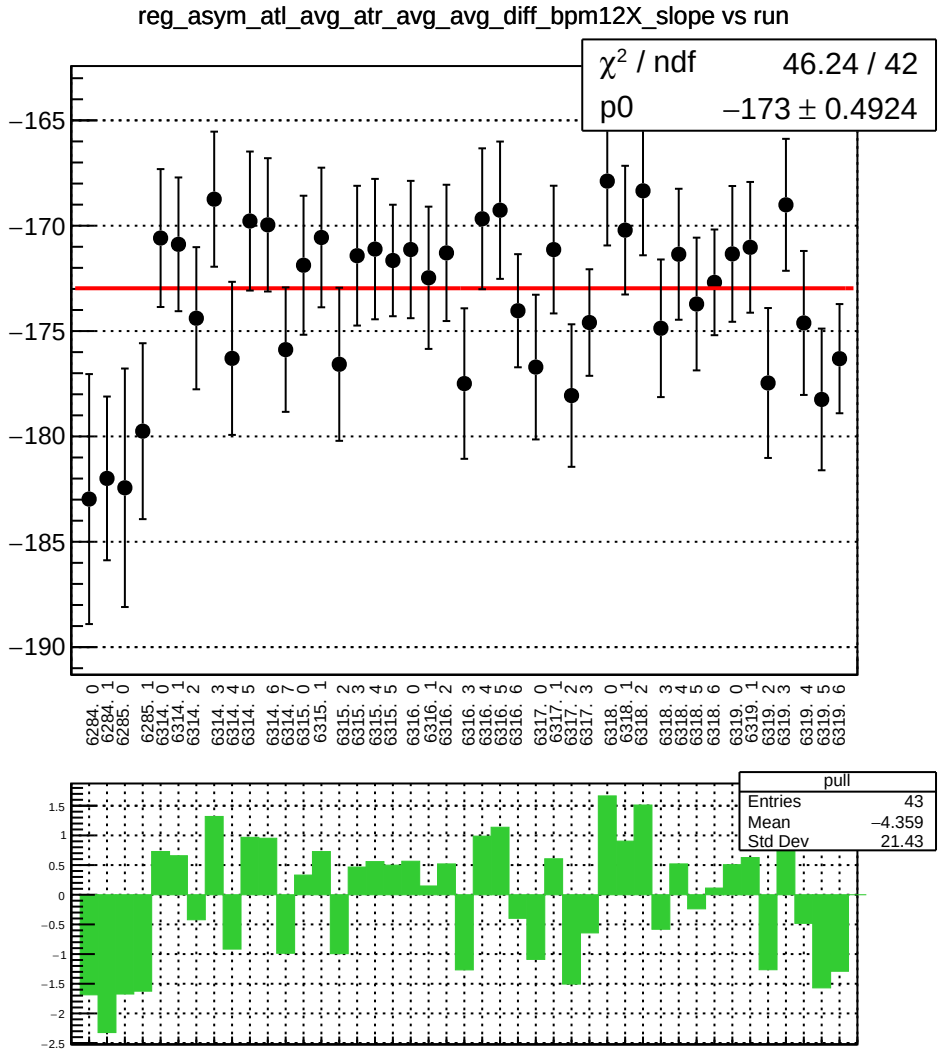

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.75 / 42
p0 −500.2 ± 11.94
−300
−400
−500
−600
−700
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −1.143
Std Dev 15.78
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.03139
Std Dev 0.6595
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

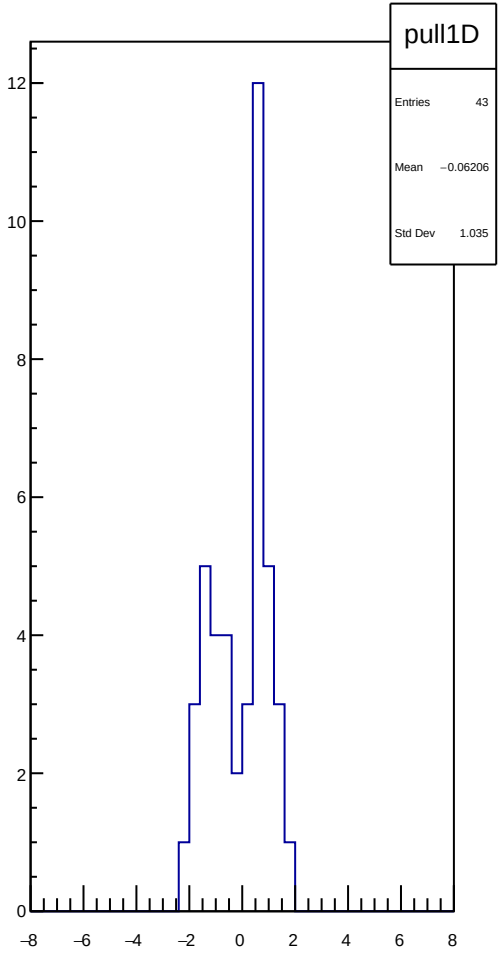

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.85 / 42
p0 9.772 ± 5.091
pull
Entries 43
Mean −84.42
Std Dev 103.4

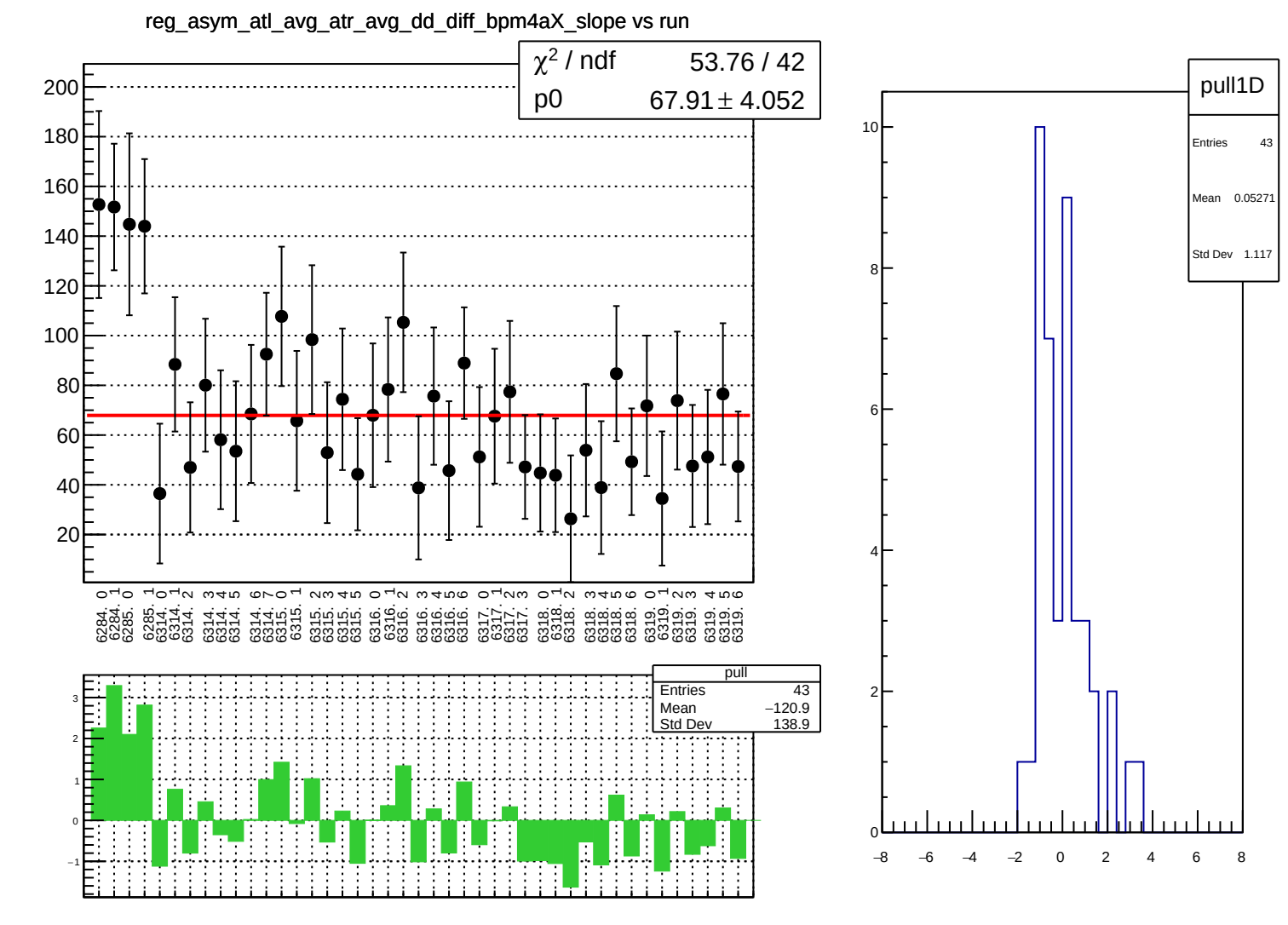

pull1D
Entries 43
Mean −0.0331
Std Dev 0.426

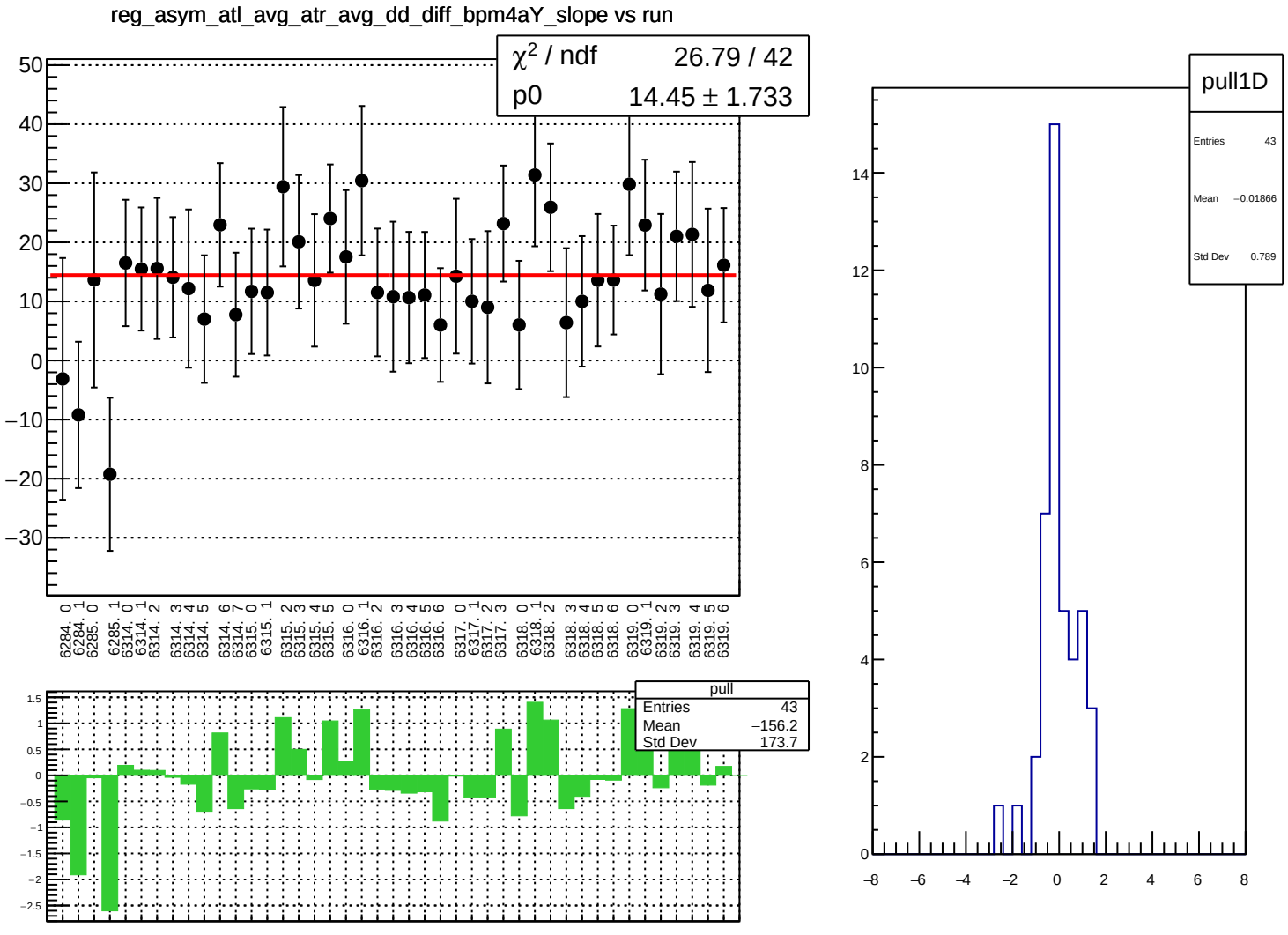

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.07 / 42
p0 566.9 ± 12.87
800
700
600
500
400
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −8.513
Std Dev 24.02
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0362
Std Dev 0.6649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

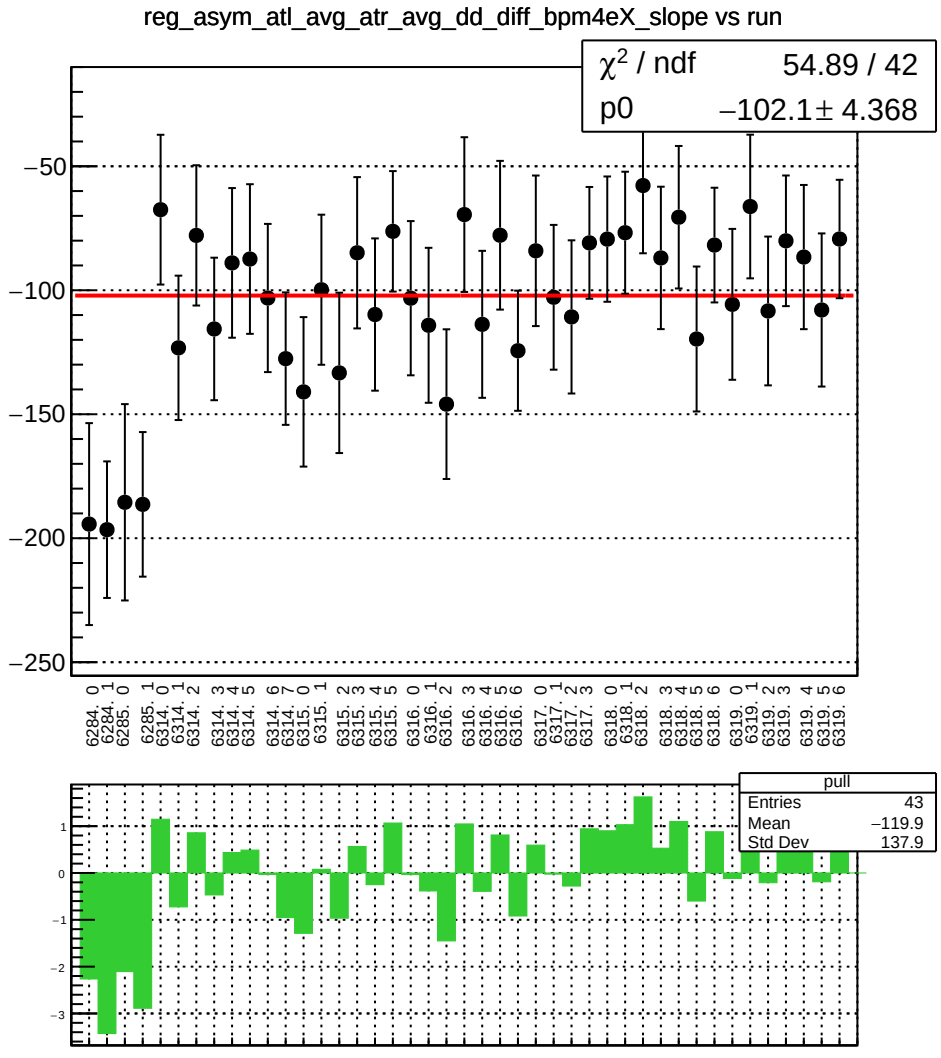

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.11 / 42
p0 58.4 ± 6.258
250
200
150
100
50
0
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −77.95
Std Dev 96.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.04266
Std Dev 0.5064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

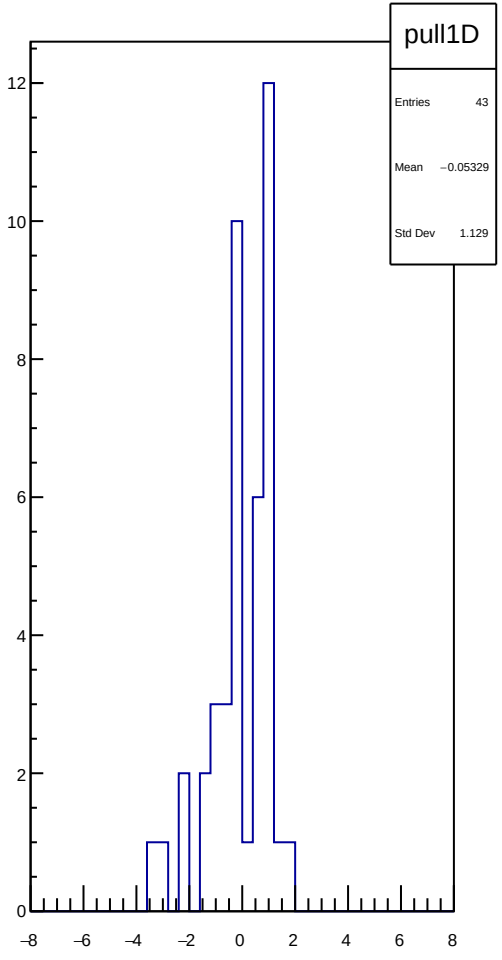

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 46.24 / 42
p0 −173 ± 0.4924
−165
−170
−175
−180
−185
−190
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −4.359
Std Dev 21.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

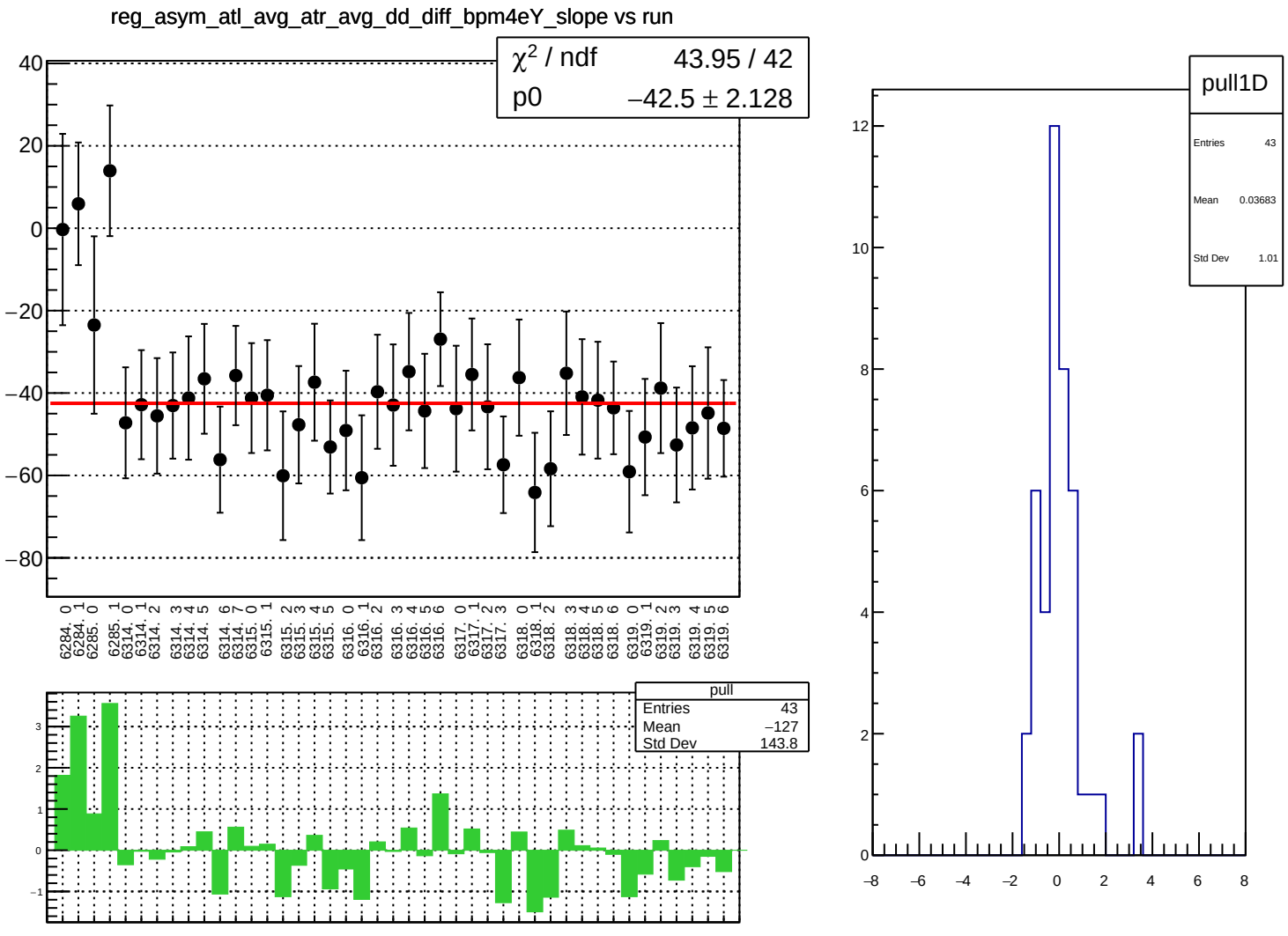

pull1D
Entries 43
Mean −0.06206
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

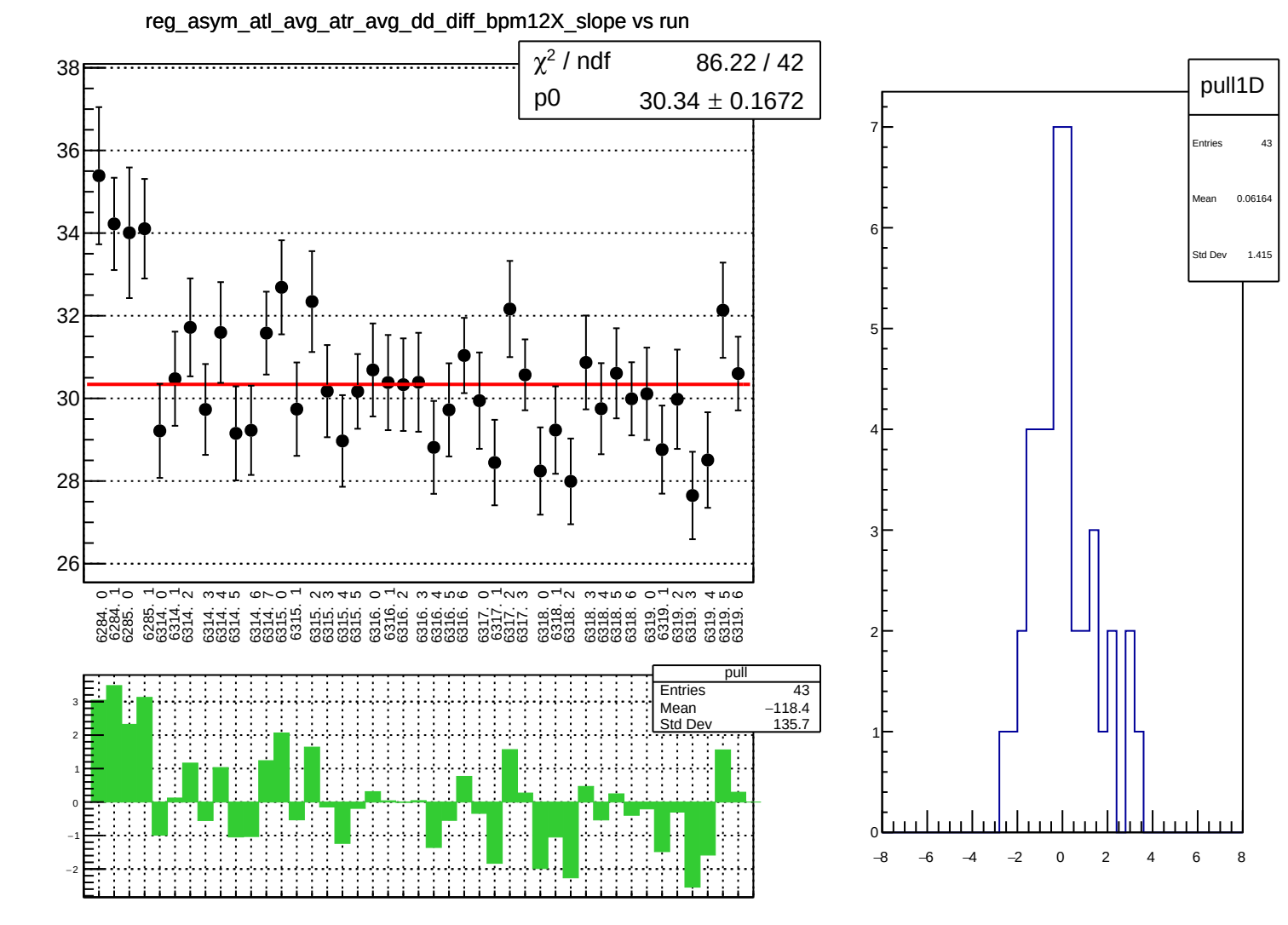

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 53.76 / 42
p0 67.91 ± 4.052
pull
Entries 43
Mean −120.9
Std Dev 138.9
pull1D
Entries 43
Mean 0.05271
Std Dev 1.117

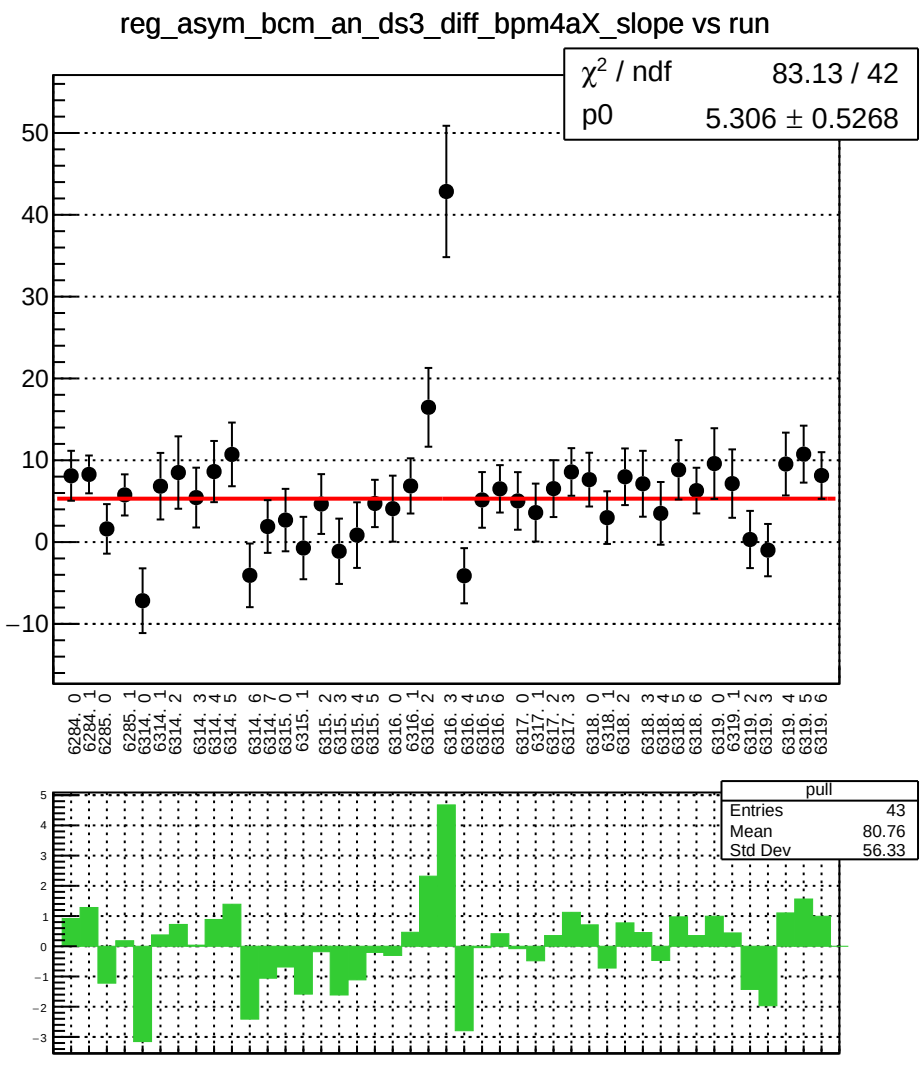

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.79 / 42
p0 14.45 ± 1.733
pull
Entries 43
Mean −156.2
Std Dev 173.7
pull1D
Entries 43
Mean −0.01866
Std Dev 0.789

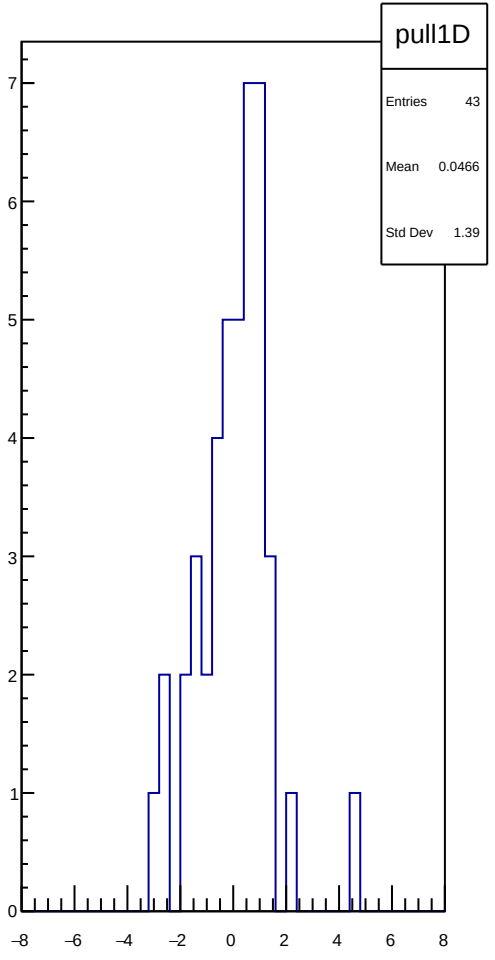

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.89 / 42
p0 −102.1± 4.368
pull
Entries 43
Mean −119.9
Std Dev 137.9

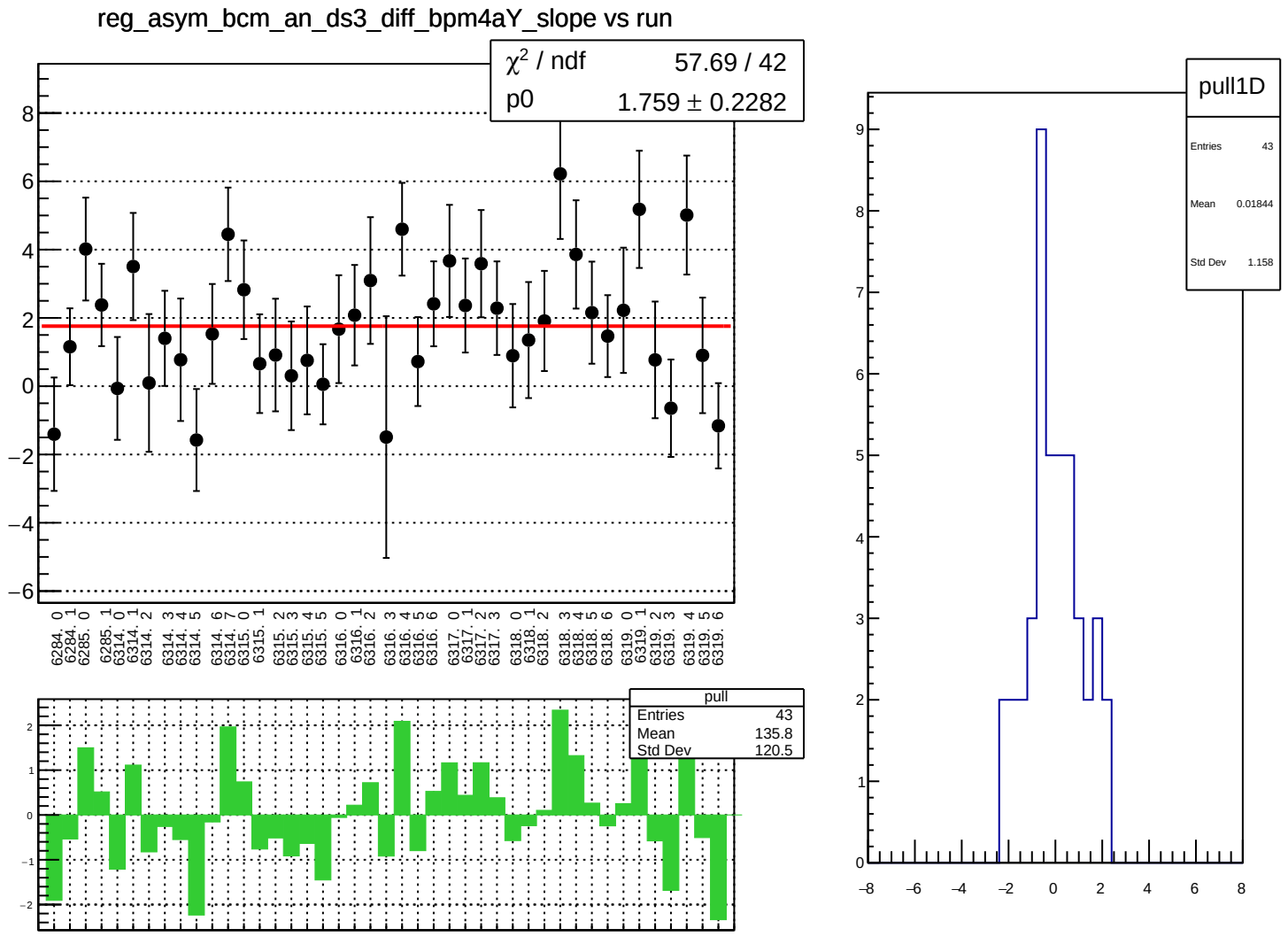

pull1D
Entries 43
Mean −0.05329
Std Dev 1.129

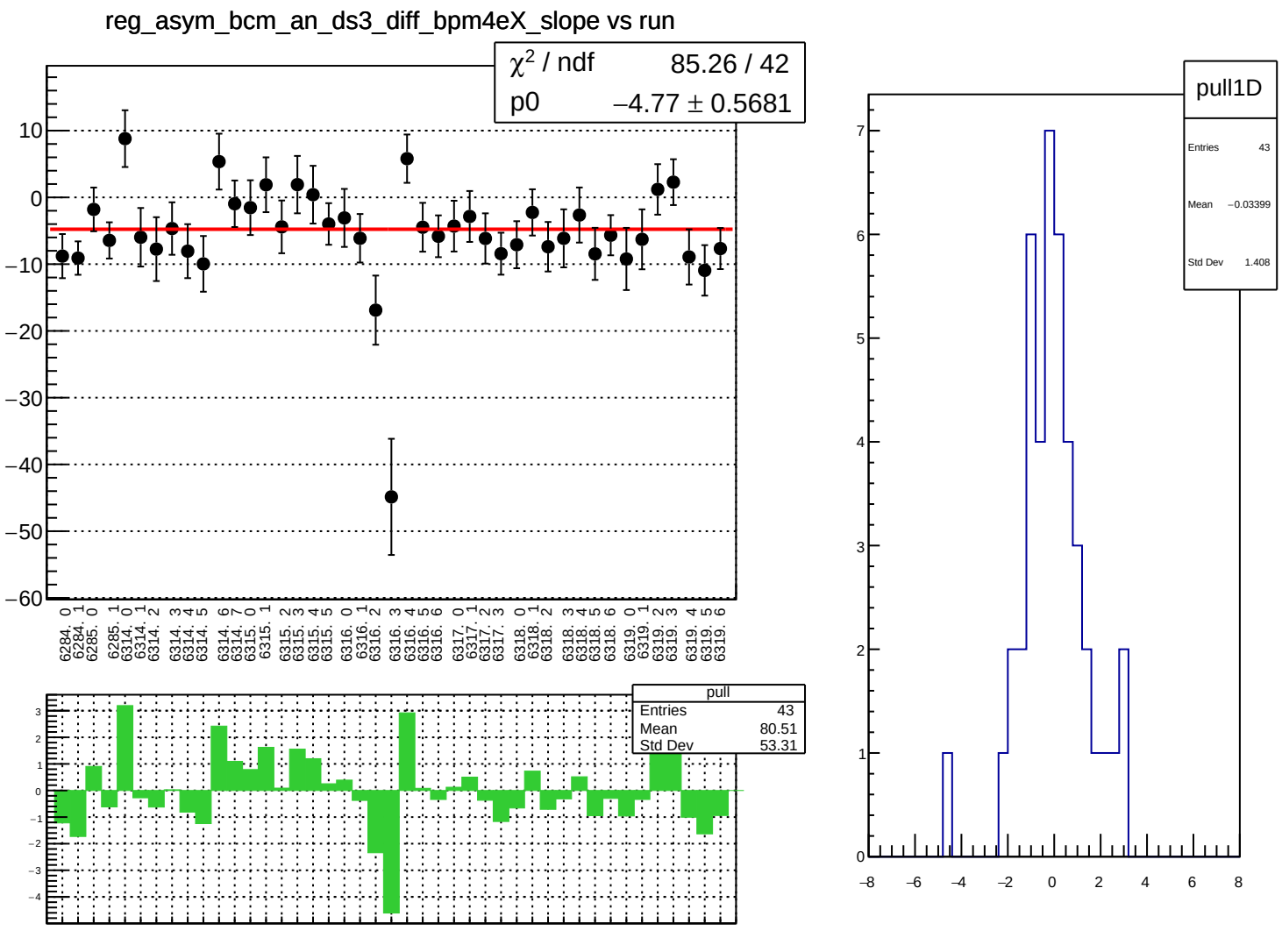

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.95 / 42
p0 −42.5 ± 2.128
40
20
0
−20
−40
−60
−80
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean −127
Std Dev 143.8
3
2
1
0
−1
pull1D
Entries 43
Mean 0.03683
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

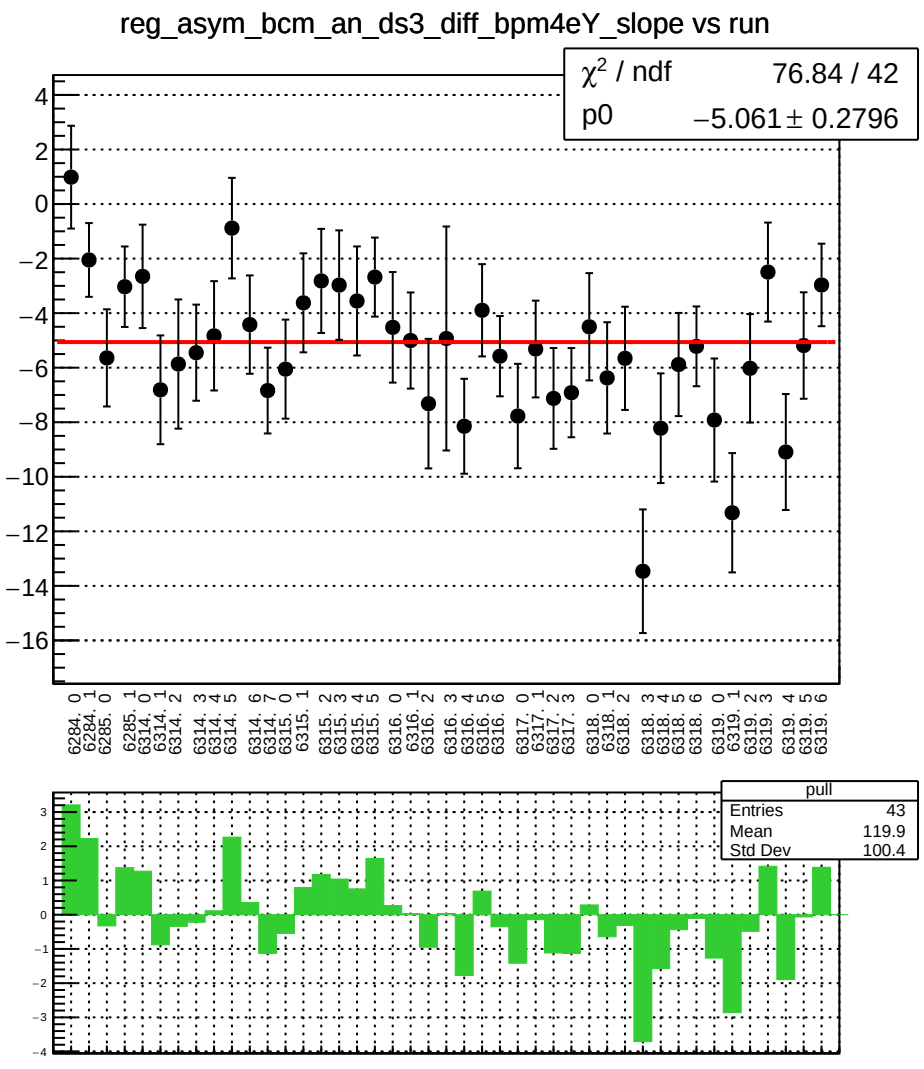

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 86.22 / 42
p0 30.34 ± 0.1672
pull
Entries 43
Mean −118.4
Std Dev 135.7
pull1D
Entries 43
Mean 0.06164
Std Dev 1.415

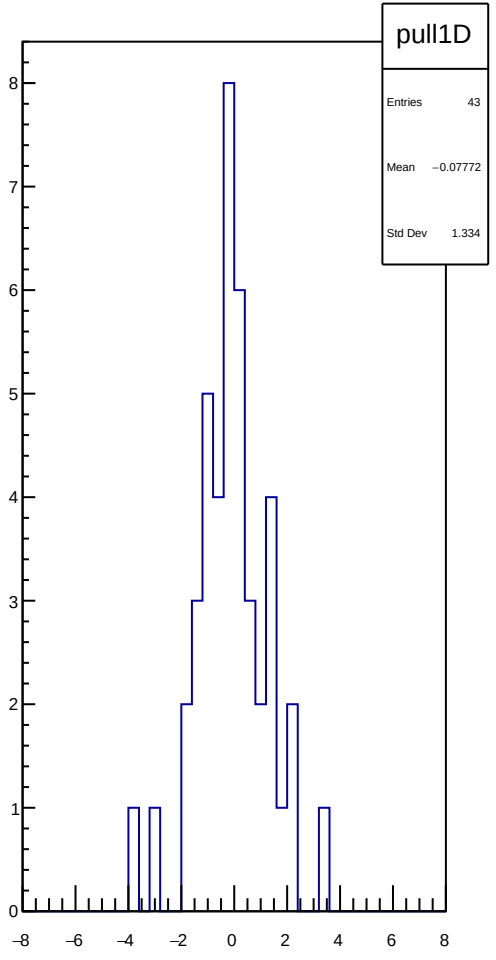

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 83.13 / 42
p0 5.306 ± 0.5268
pull
Entries 43
Mean 80.76
Std Dev 56.33

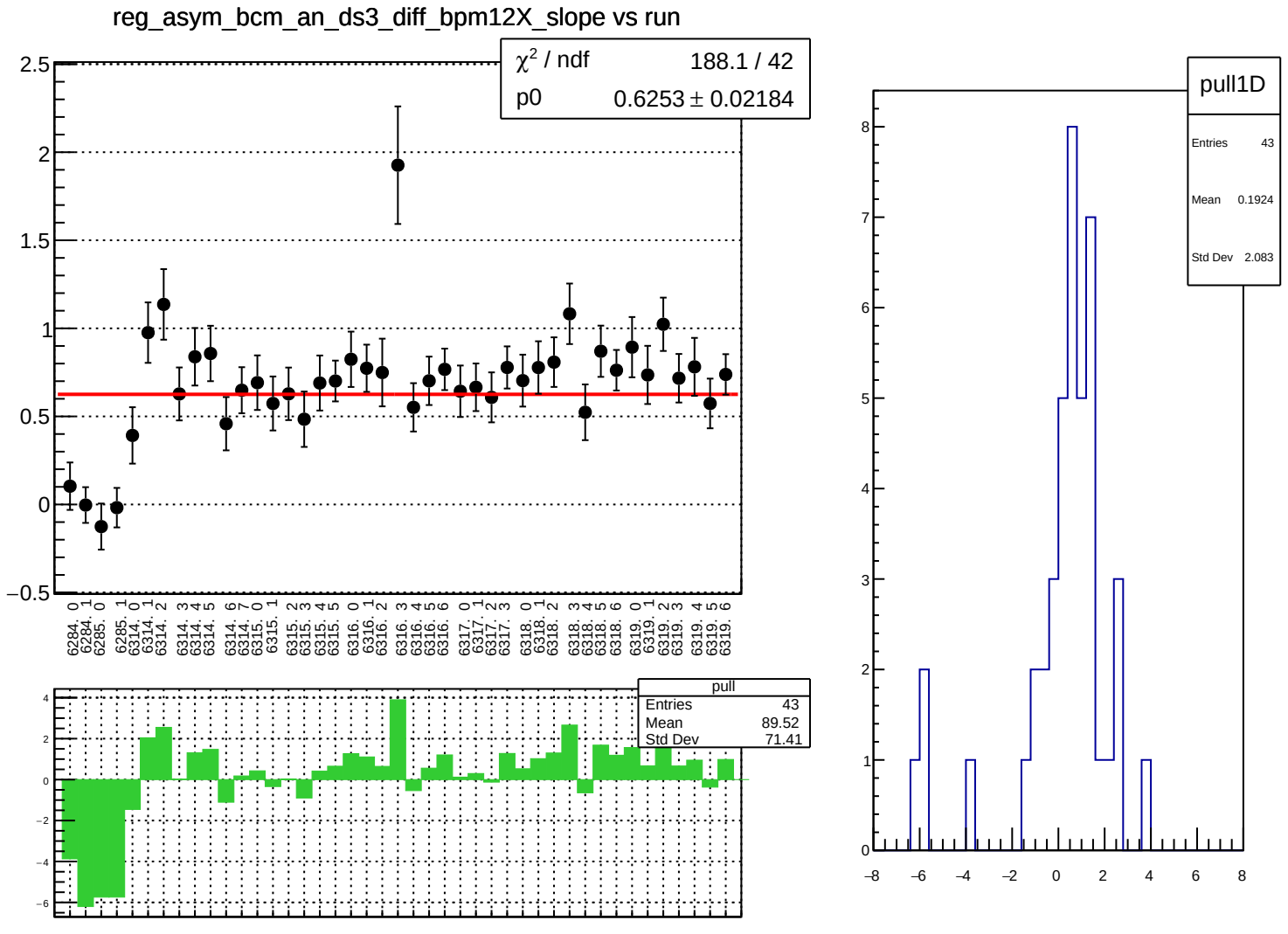

pull1D
Entries 43
Mean 0.0466
Std Dev 1.39

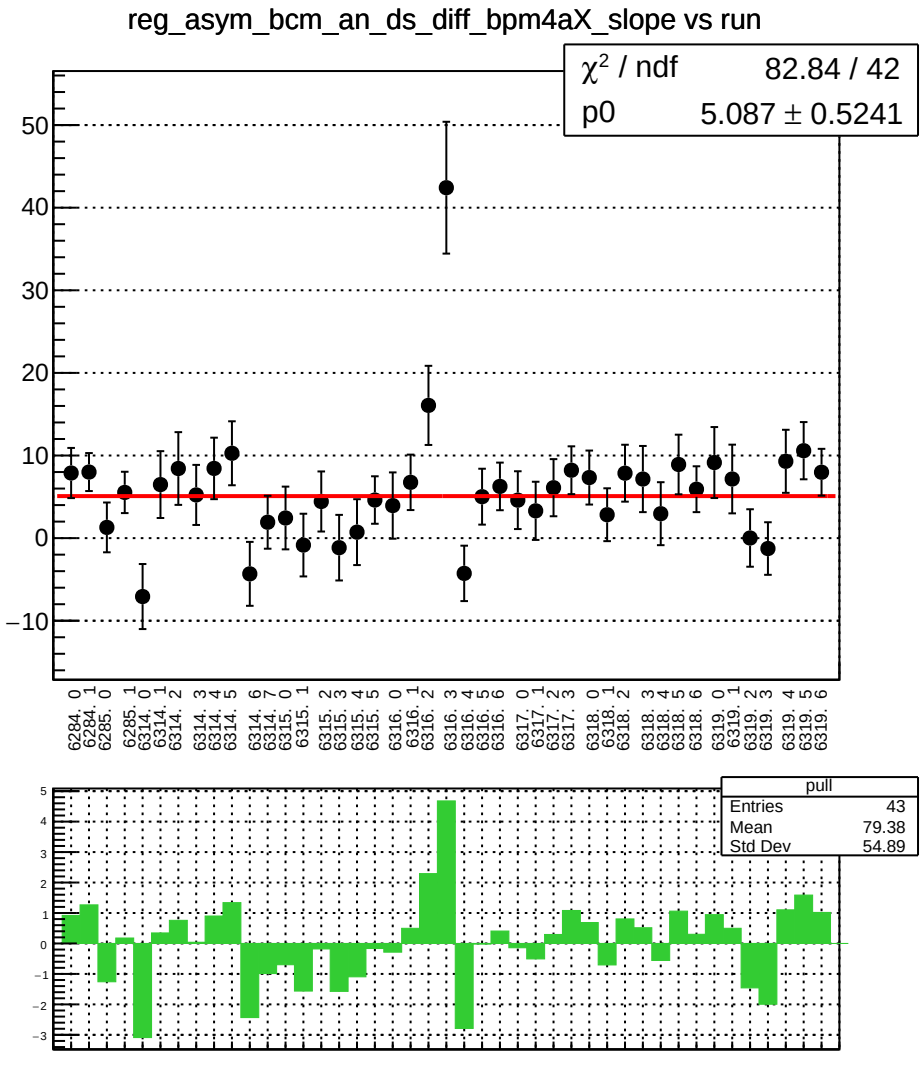

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 57.69 / 42
p0 1.759 ± 0.2282
pull
Entries 43
Mean 135.8
Std Dev 120.5
pull1D
Entries 43
Mean 0.01844
Std Dev 1.158

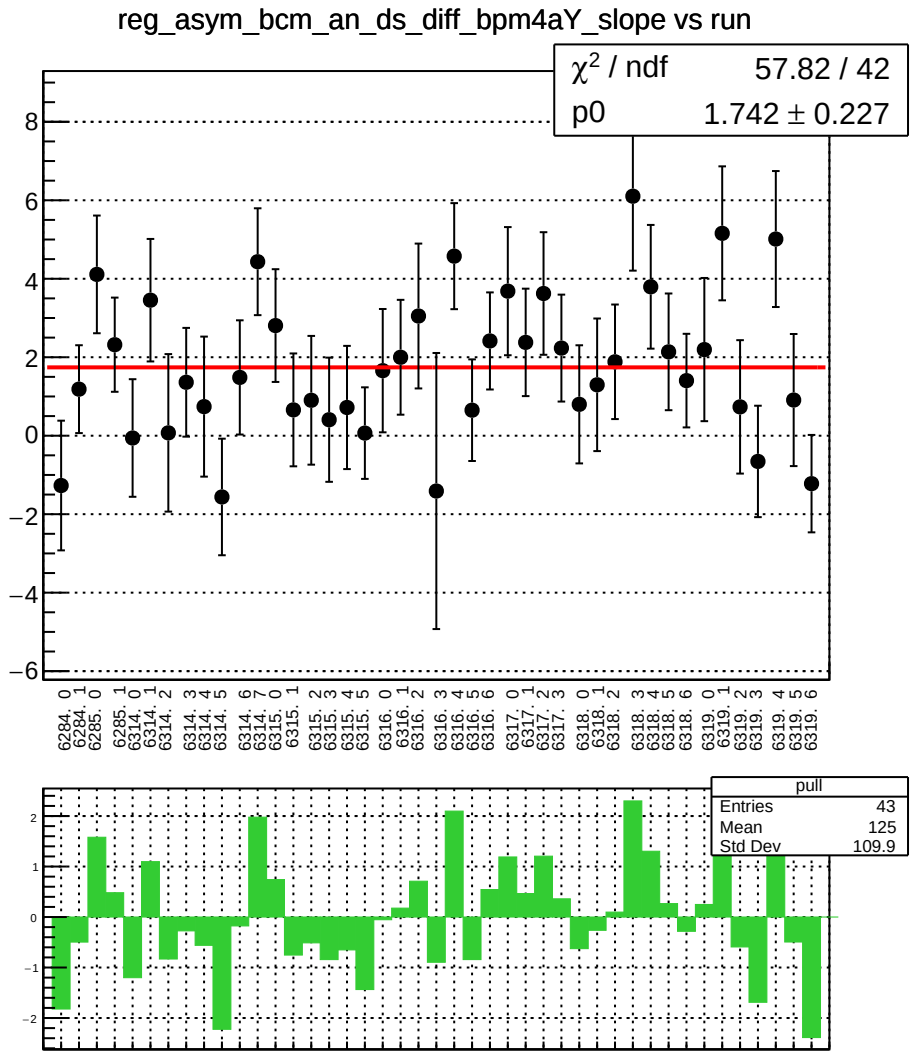

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 85.26 / 42
p0 −4.77 ± 0.5681
pull
Entries 43
Mean 80.51
Std Dev 53.31
pull1D
Entries 43
Mean −0.03399
Std Dev 1.408

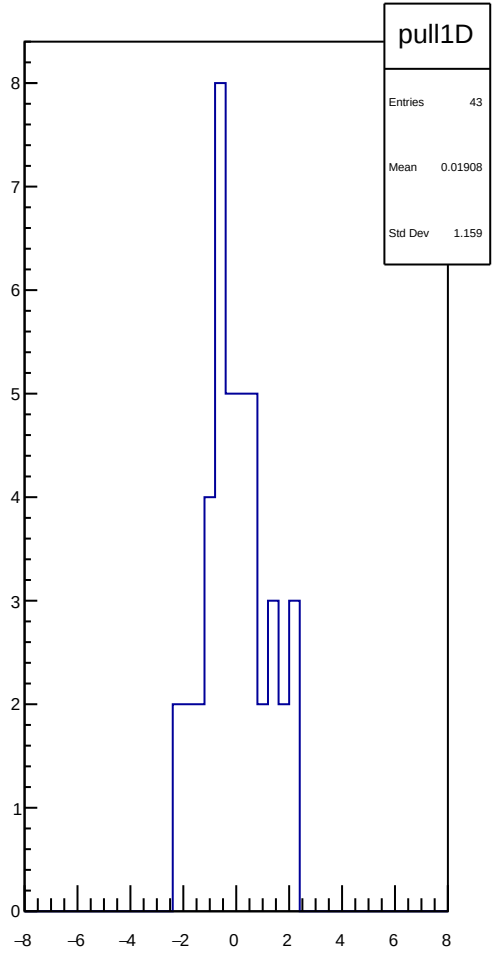

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 76.84 / 42
p0 −5.061 ± 0.2796
pull
Entries 43
Mean 119.9
Std Dev 100.4

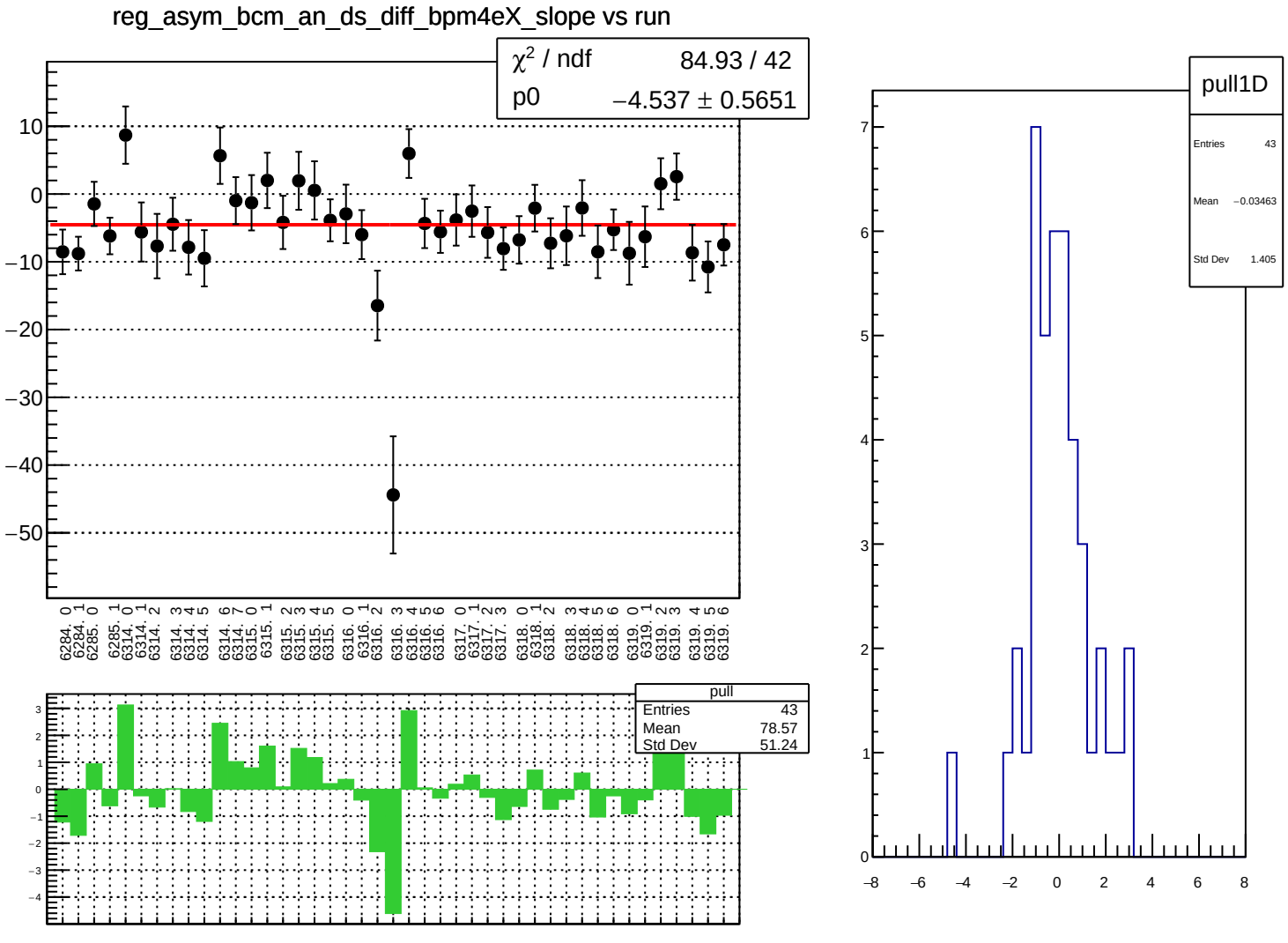

pull1D
Entries 43
Mean −0.07772
Std Dev 1.334

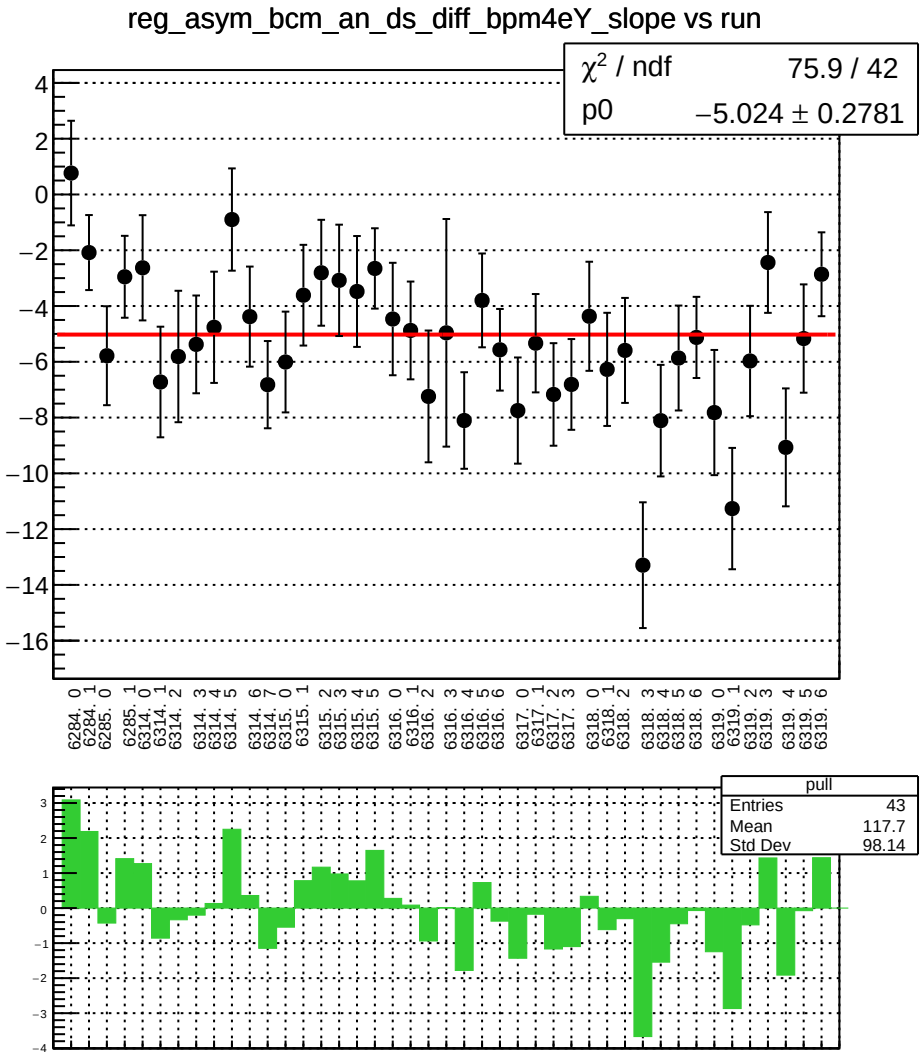

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 188.1 / 42
p0 0.6253 ± 0.02184
pull
Entries 43
Mean 89.52
Std Dev 71.41
pull1D
Entries 43
Mean 0.1924
Std Dev 2.083

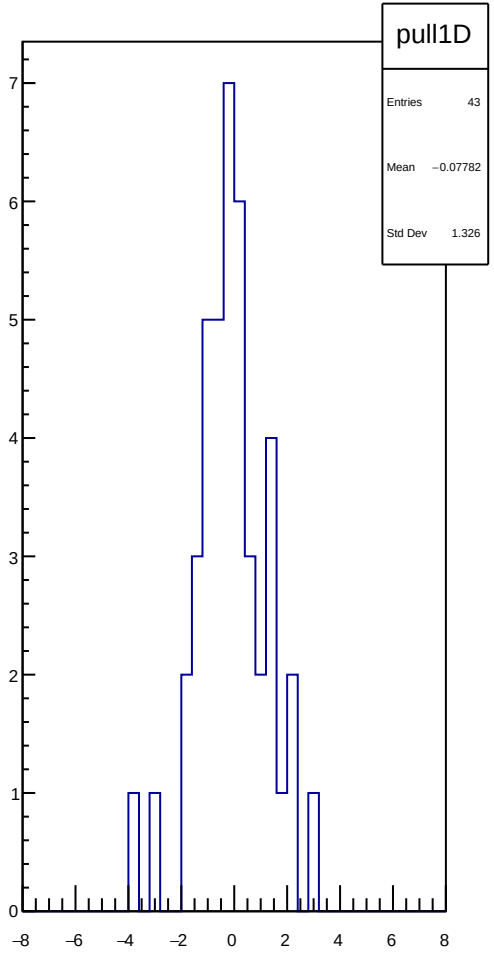

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 82.84 / 42
p0 5.087 ± 0.5241
50
40
30
20
10
0
−10
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 79.38
Std Dev 54.89
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0472
Std Dev 1.387
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

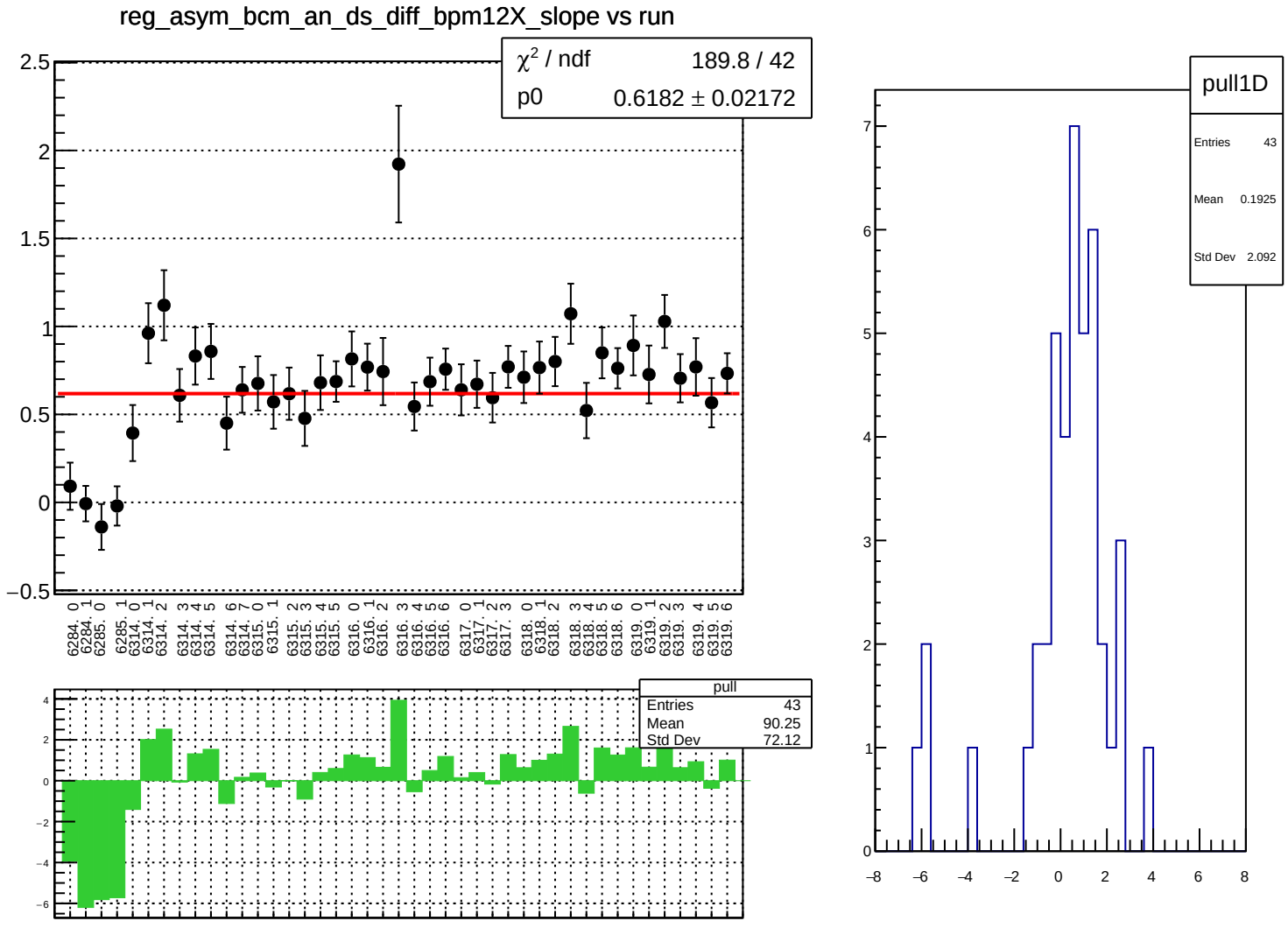

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 57.82 / 42
p0 1.742 ± 0.227
pull
Entries 43
Mean 125
Std Dev 109.9

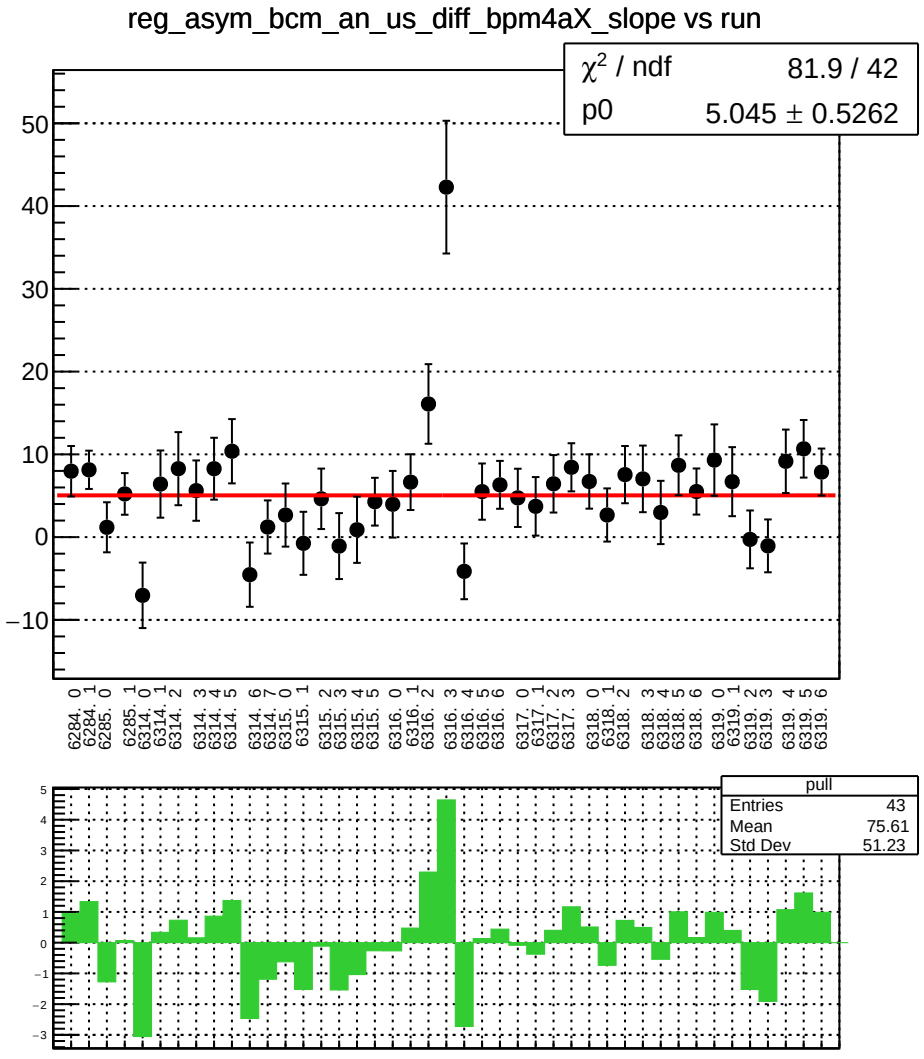

pull1D
Entries 43
Mean 0.01908
Std Dev 1.159

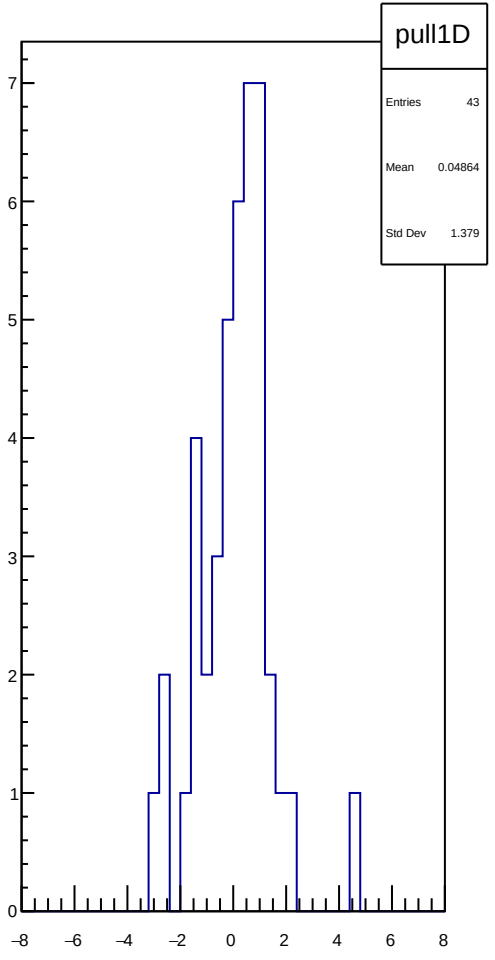

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 84.93 / 42
p0 −4.537 ± 0.5651
10
0
−10
−20
−30
−40
−50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 78.57
Std Dev 51.24
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.03463
Std Dev 1.405
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

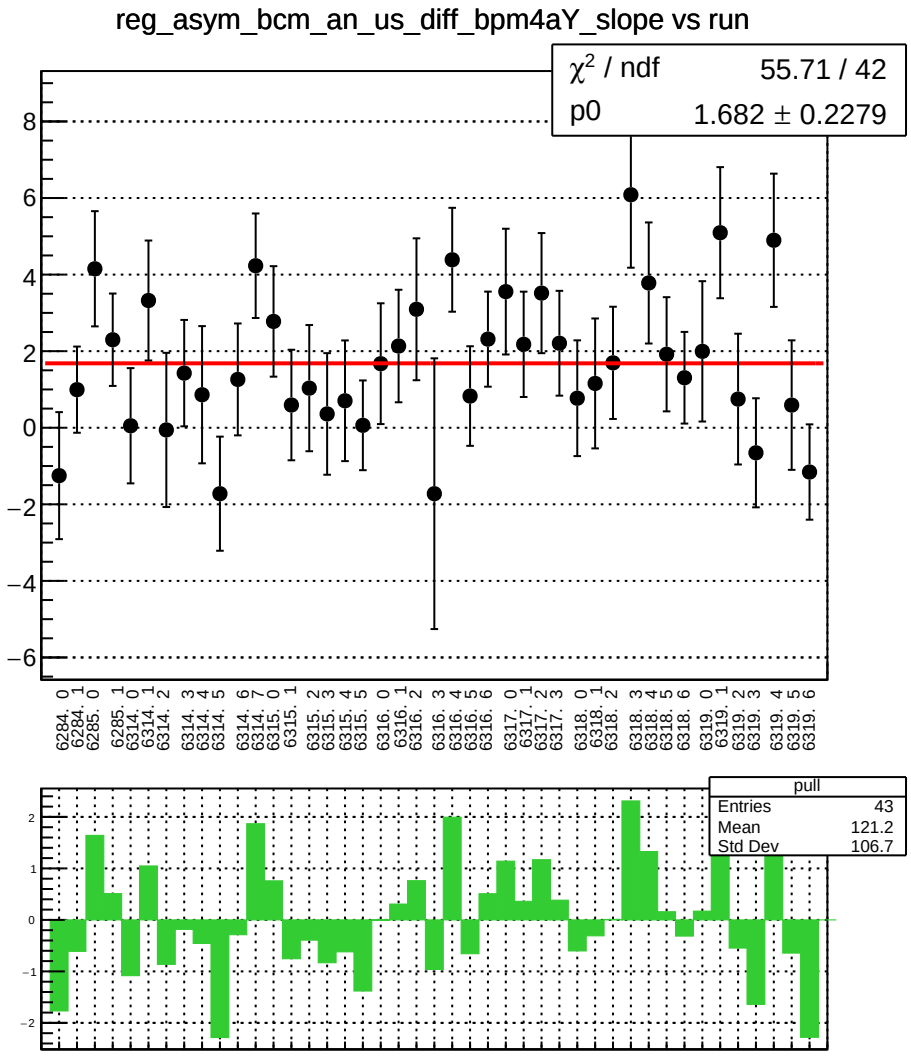

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 75.9 / 42
p0 −5.024 ± 0.2781
pull
Entries 43
Mean 117.7
Std Dev 98.14

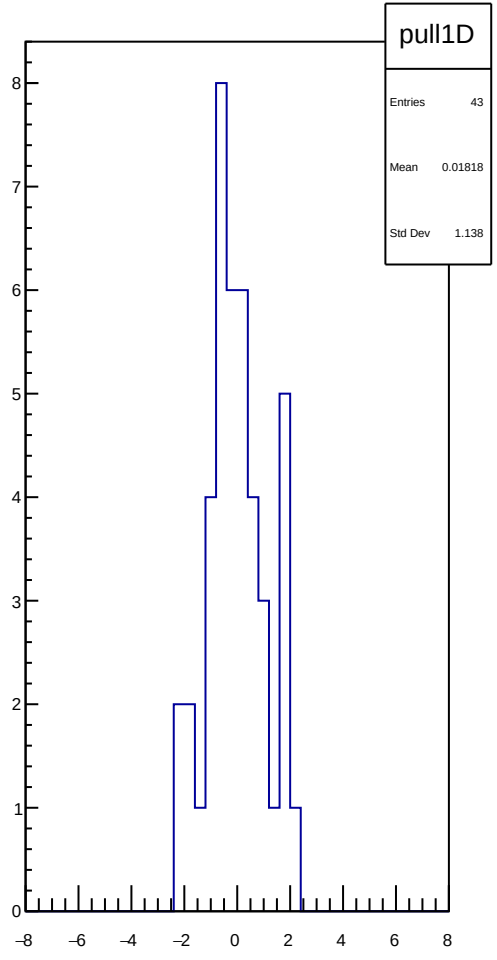

pull1D
Entries 43
Mean −0.07782
Std Dev 1.326

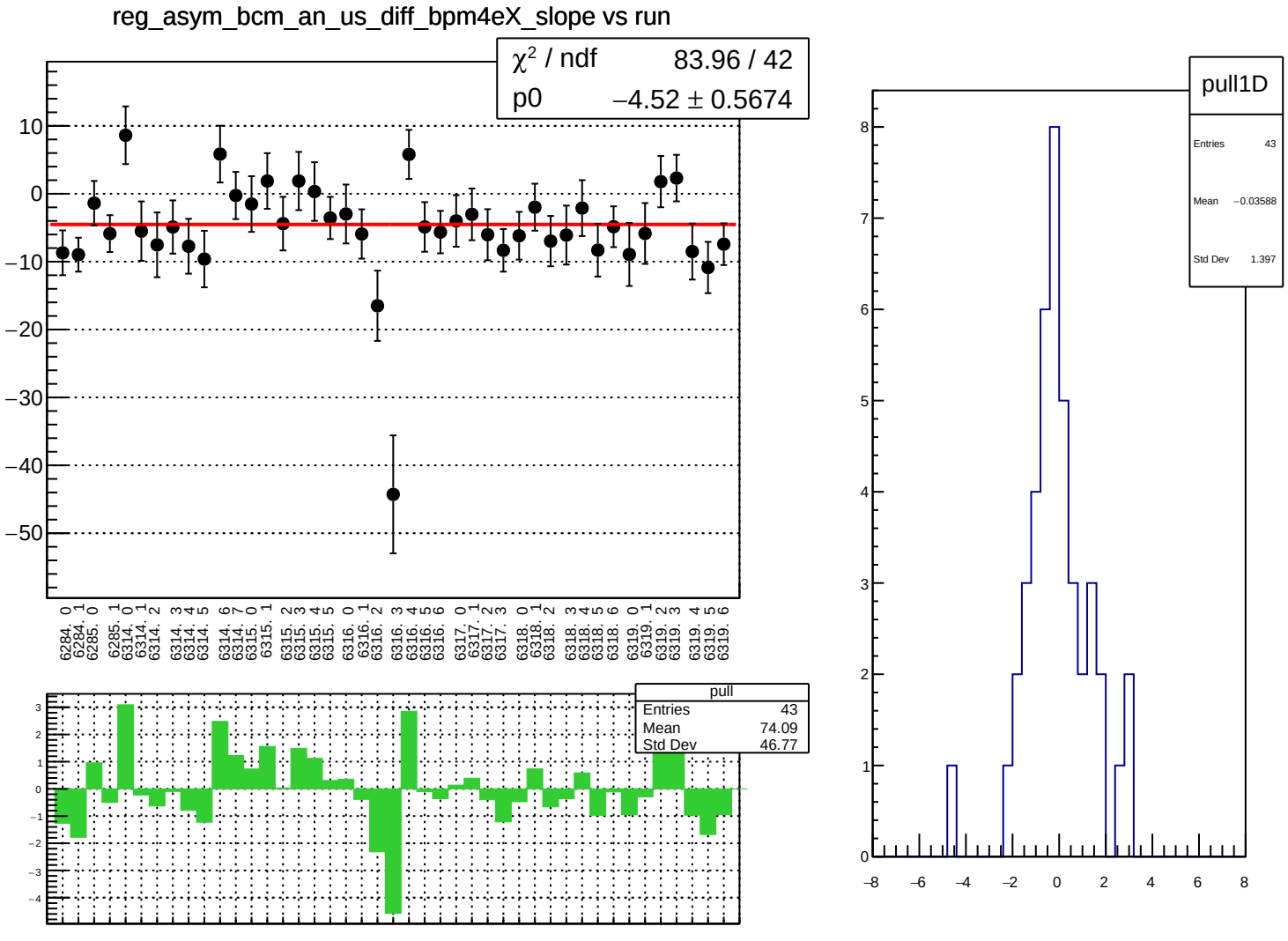

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 189.8 / 42
p0 0.6182 ± 0.02172
pull
Entries 43
Mean 90.25
Std Dev 72.12
pull1D
Entries 43
Mean 0.1925
Std Dev 2.092

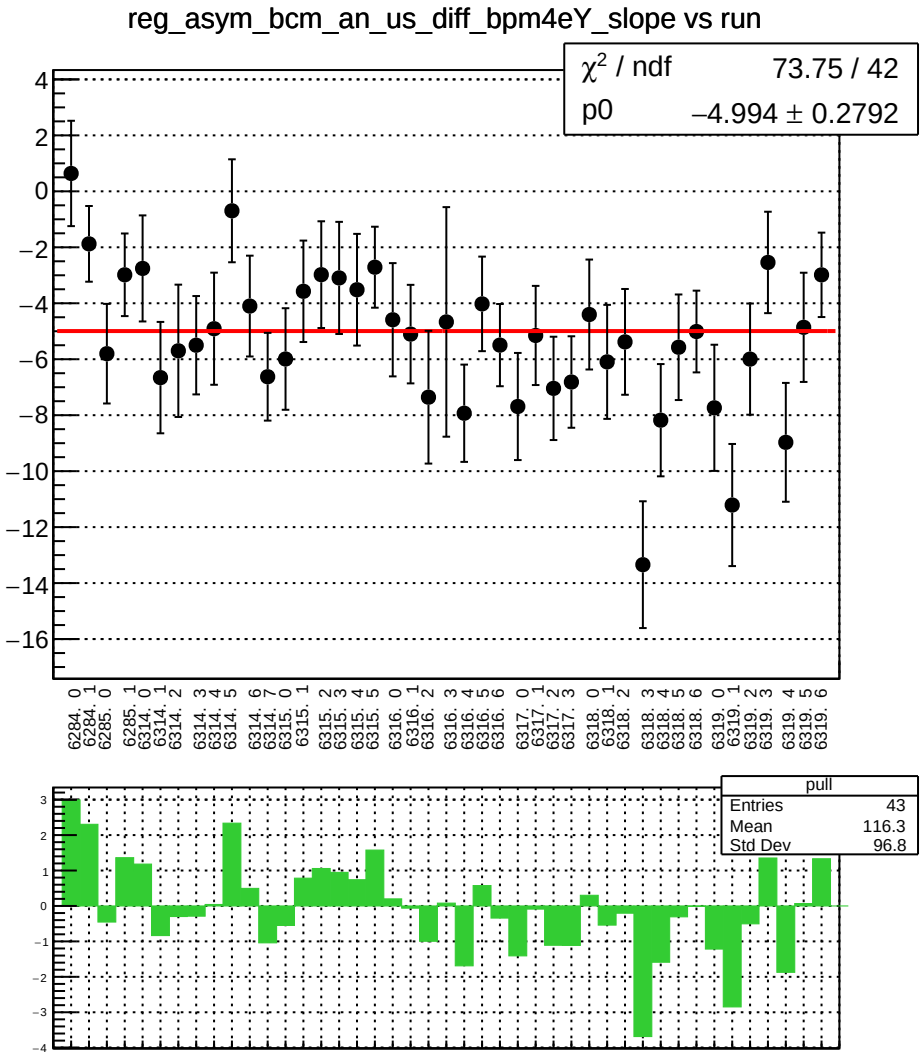

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 81.9 / 42
p0 5.045 ± 0.5262
pull
Entries 43
Mean 75.61
Std Dev 51.23

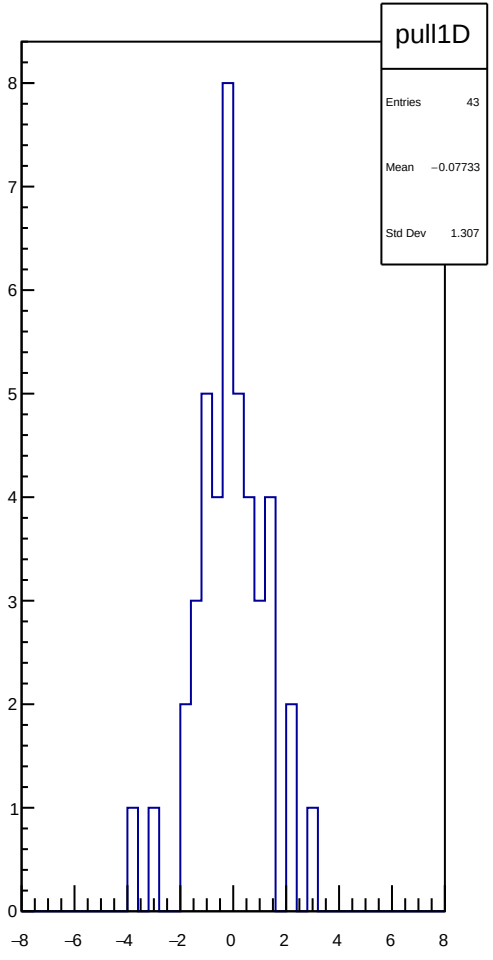

pull1D
Entries 43
Mean 0.04864
Std Dev 1.379

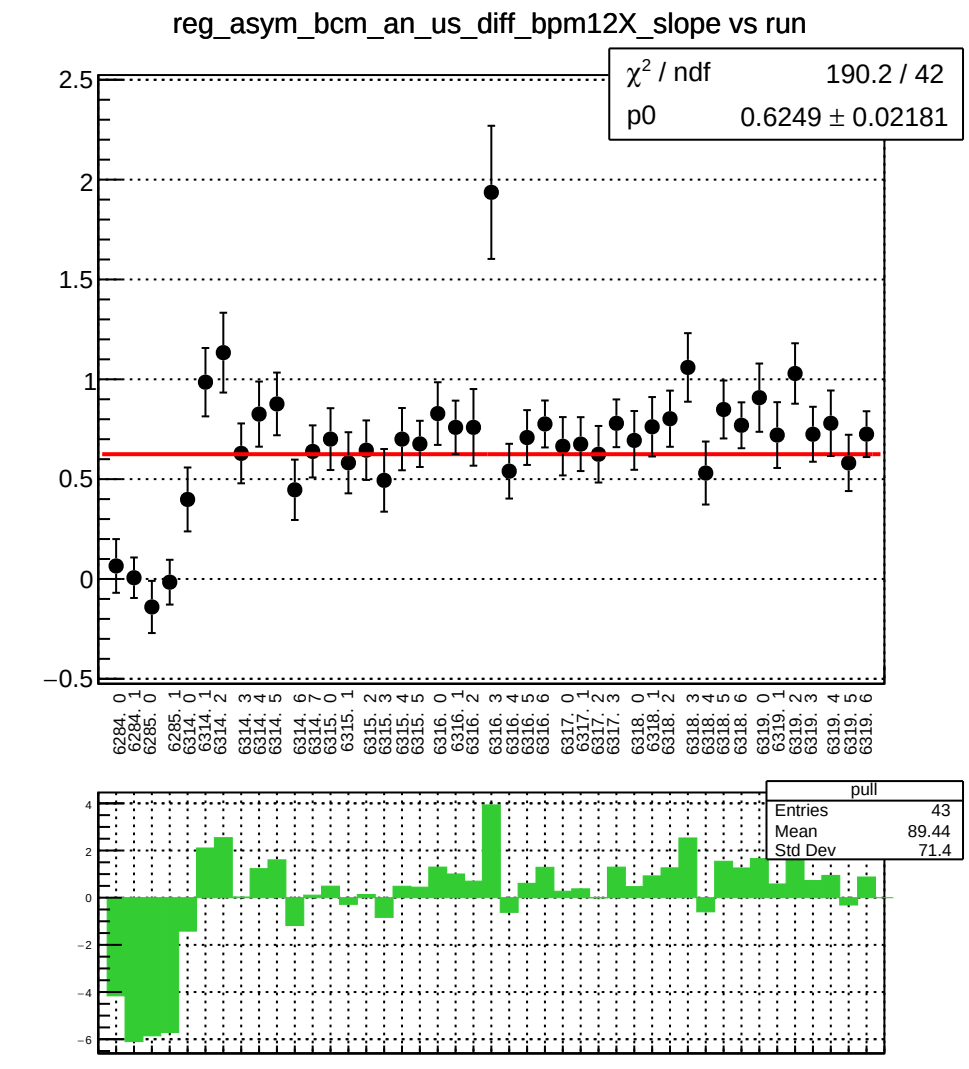

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 55.71 / 42
p0 1.682 ± 0.2279
pull
Entries 43
Mean 121.2
Std Dev 106.7

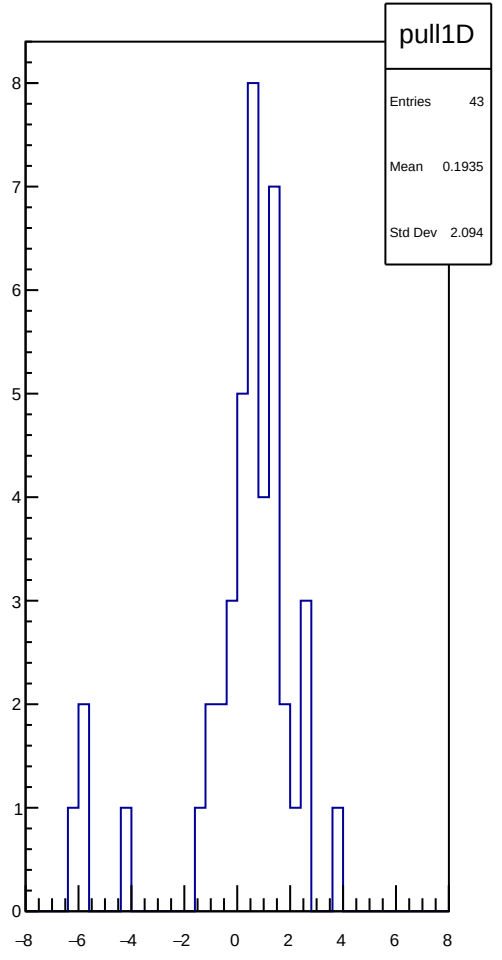

pull1D
Entries 43
Mean 0.01818
Std Dev 1.138

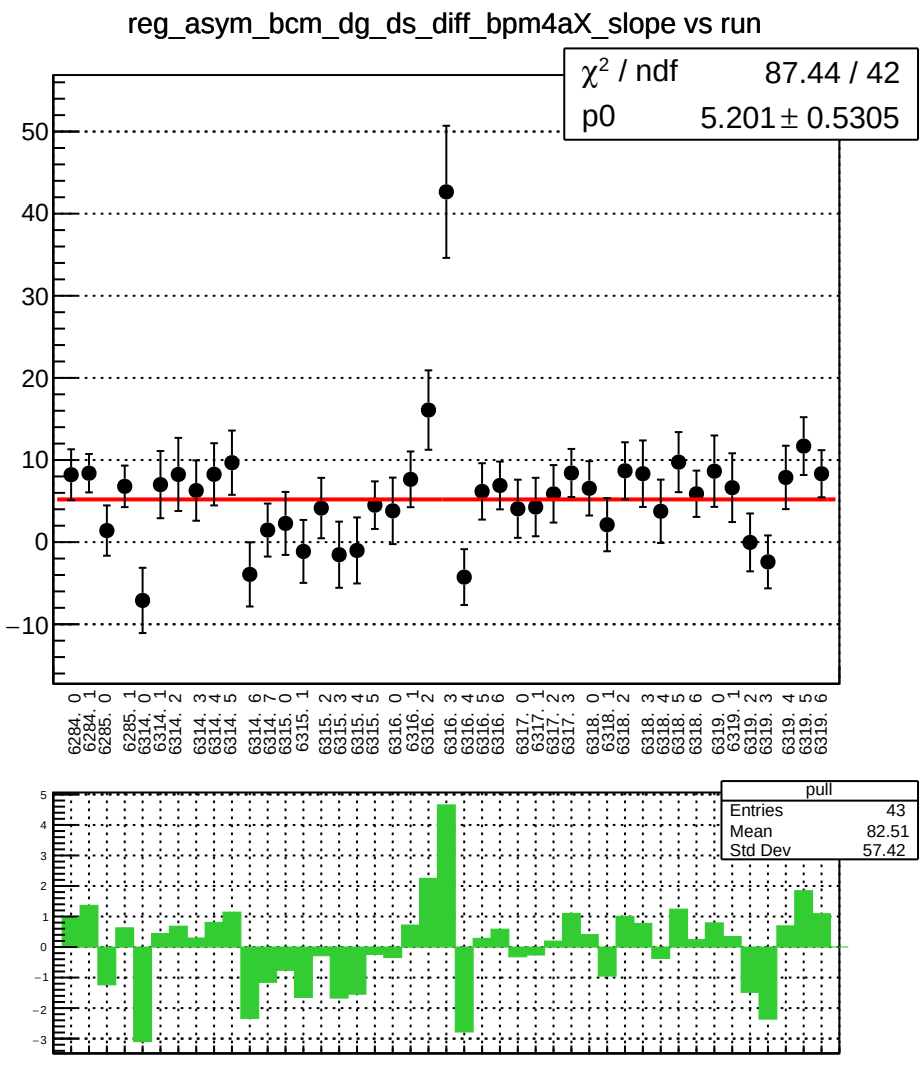

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 83.96 / 42
p0 −4.52 ± 0.5674
10
0
−10
−20
−30
−40
−50
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 74.09
Std Dev 46.77
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.03588
Std Dev 1.397
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

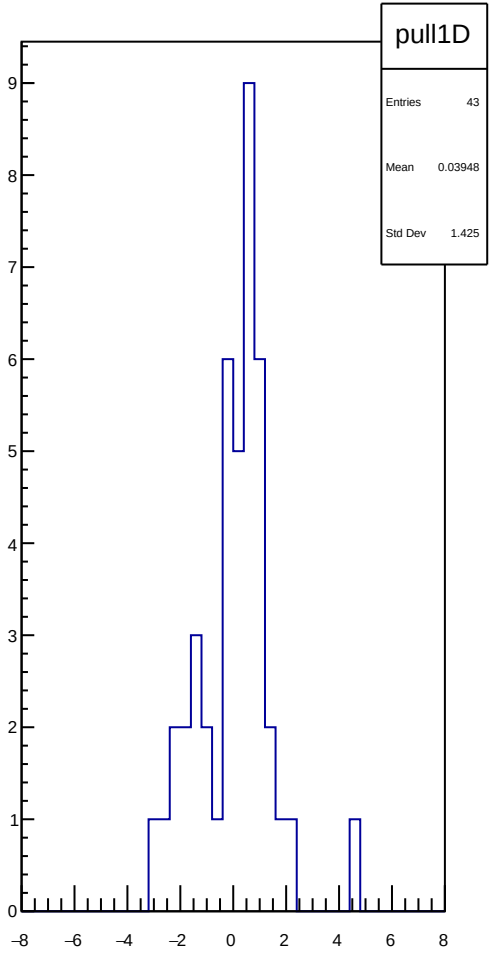

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 73.75 / 42
p0 −4.994 ± 0.2792
pull
Entries 43
Mean 116.3
Std Dev 96.8

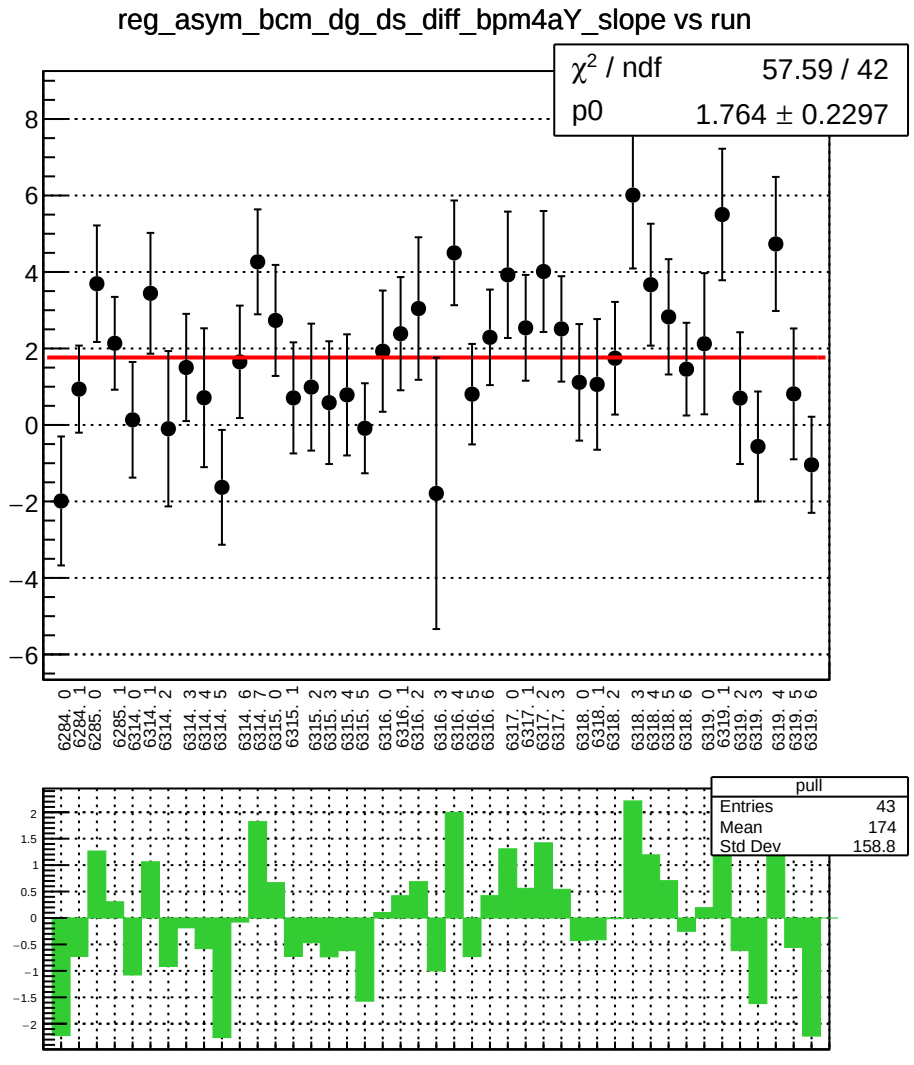

pull1D
Entries 43
Mean −0.07733
Std Dev 1.307

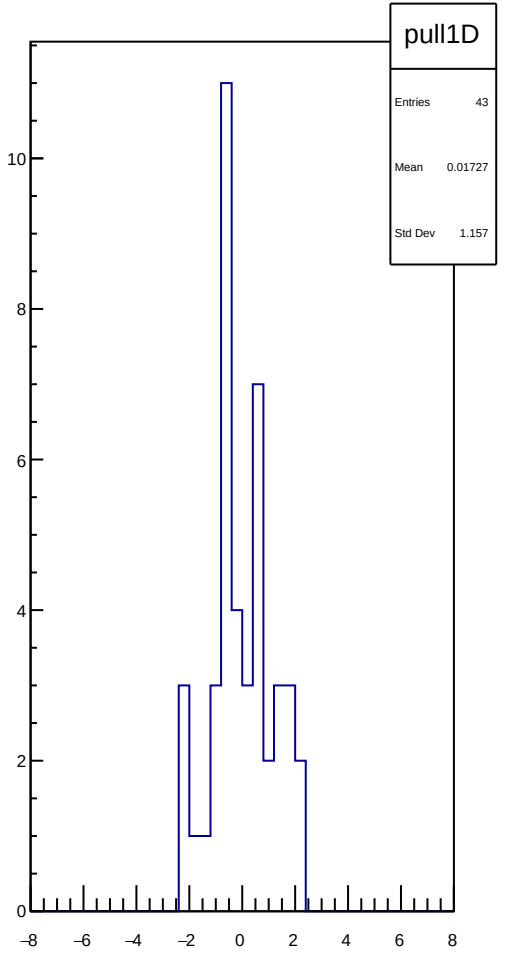

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 190.2 / 42
p0 0.6249 ± 0.02181
pull
Entries 43
Mean 89.44
Std Dev 71.4

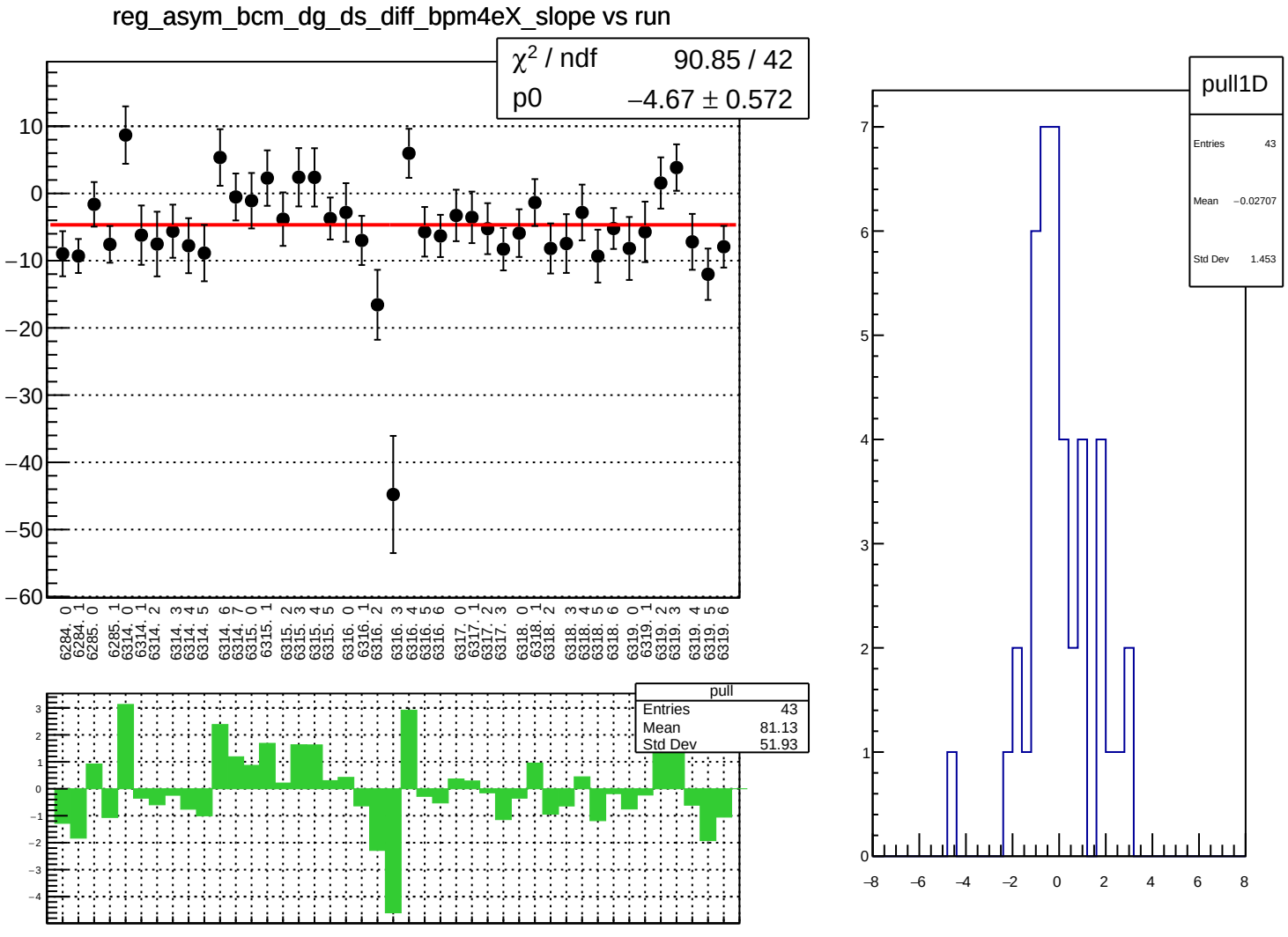

pull1D
Entries 43
Mean 0.1935
Std Dev 2.094

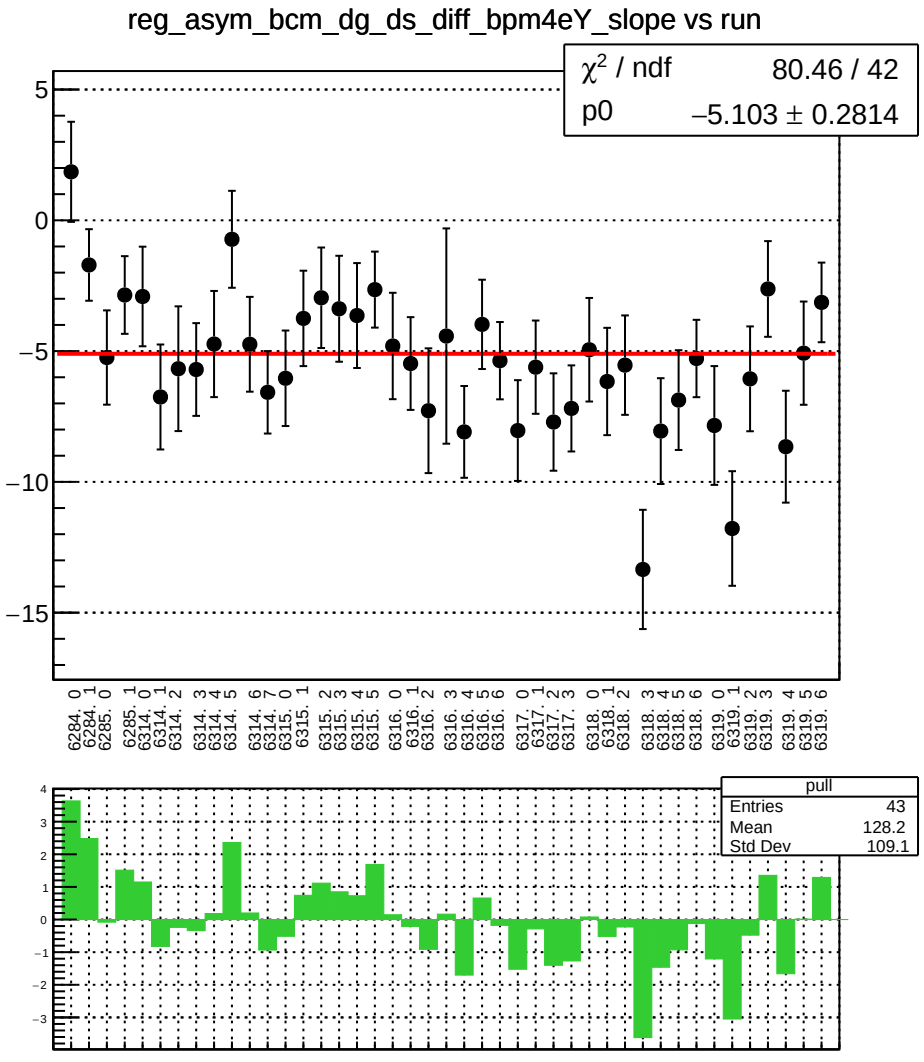

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 87.44 / 42
p0 5.201 ± 0.5305
pull
Entries 43
Mean 82.51
Std Dev 57.42

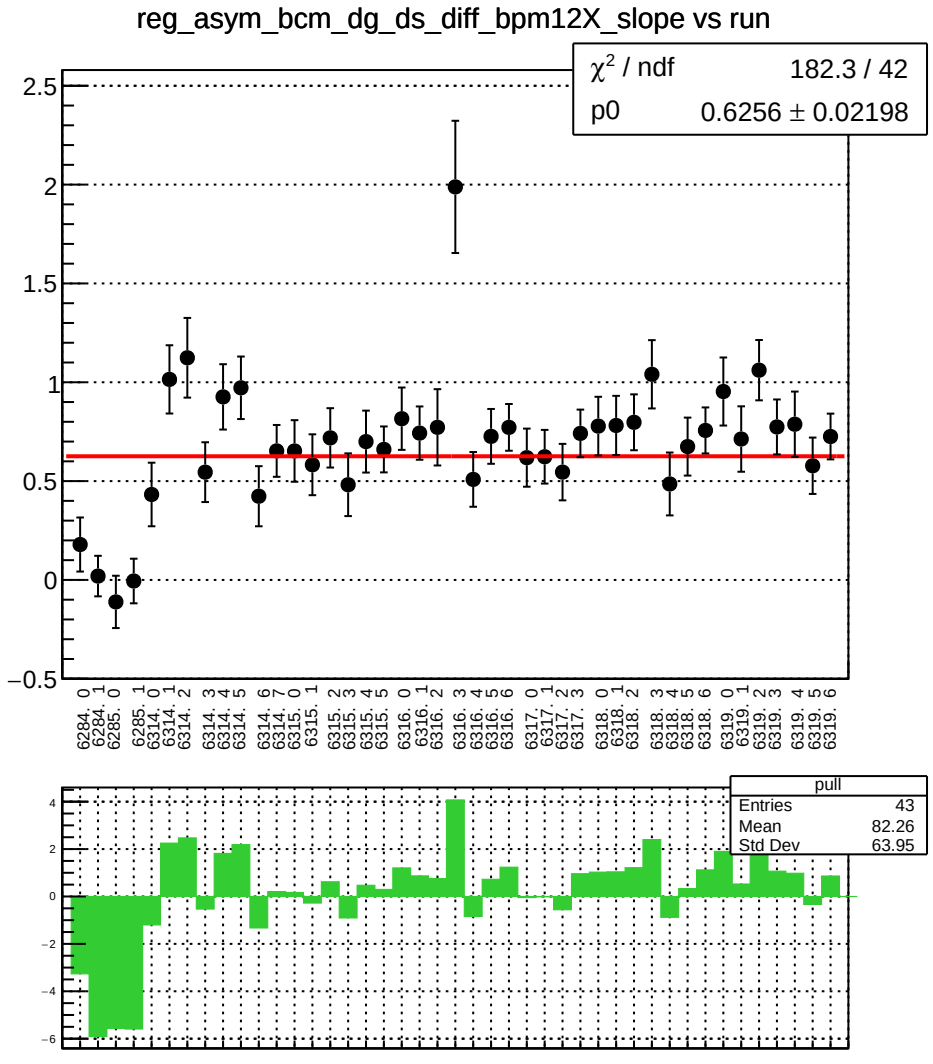

pull1D
Entries 43
Mean 0.03948
Std Dev 1.425

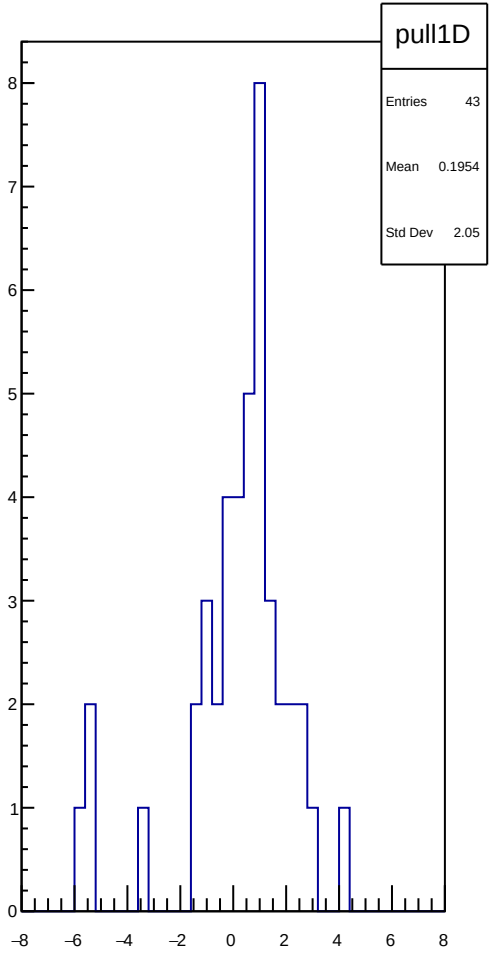

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 57.59 / 42
p0 1.764 ± 0.2297
pull
Entries 43
Mean 174
Std Dev 158.8

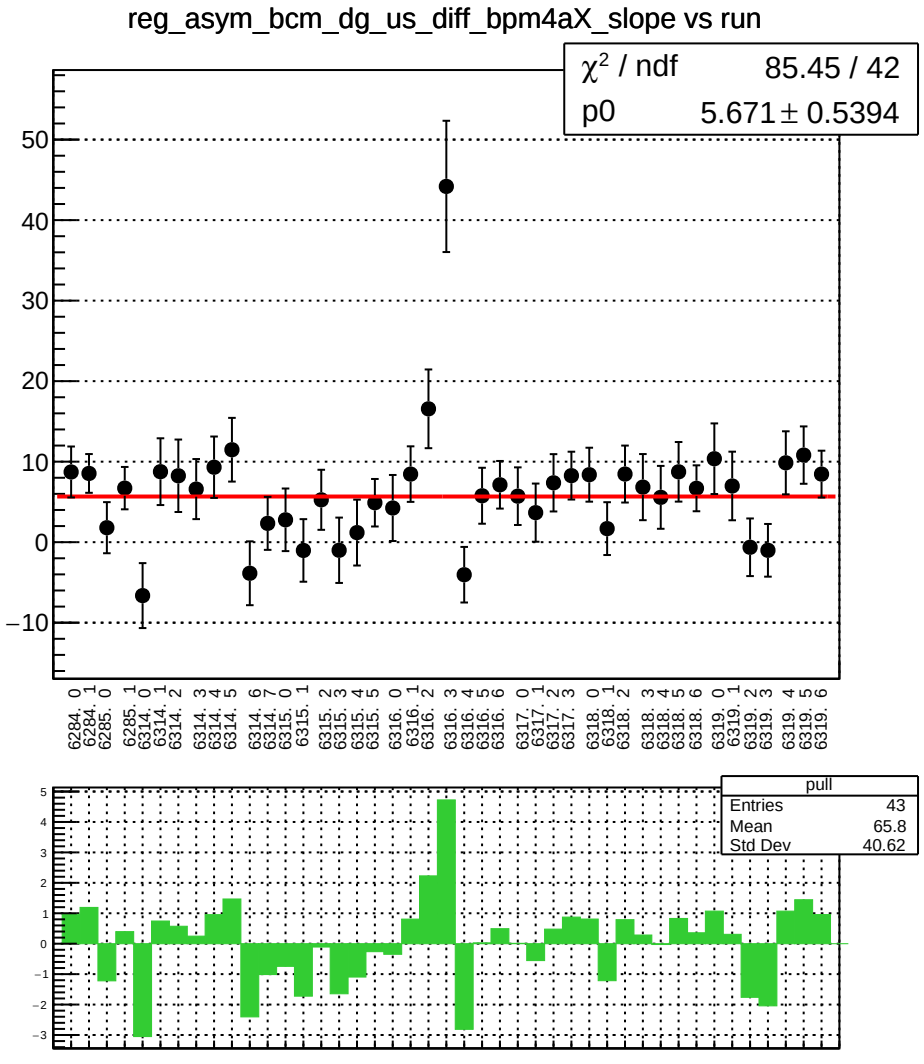

pull1D
Entries 43
Mean 0.01727
Std Dev 1.157

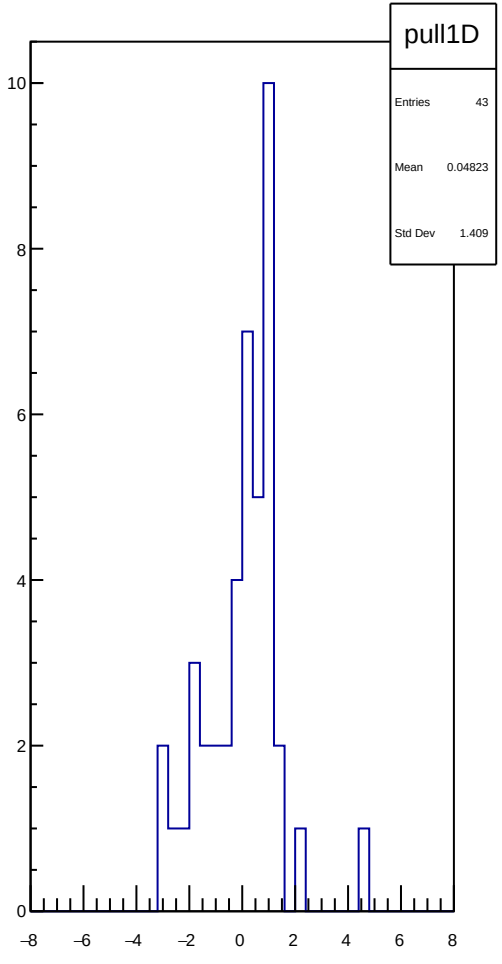

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 90.85 / 42
p0 −4.67 ± 0.572
pull
Entries 43
Mean 81.13
Std Dev 51.93
pull1D
Entries 43
Mean −0.02707
Std Dev 1.453

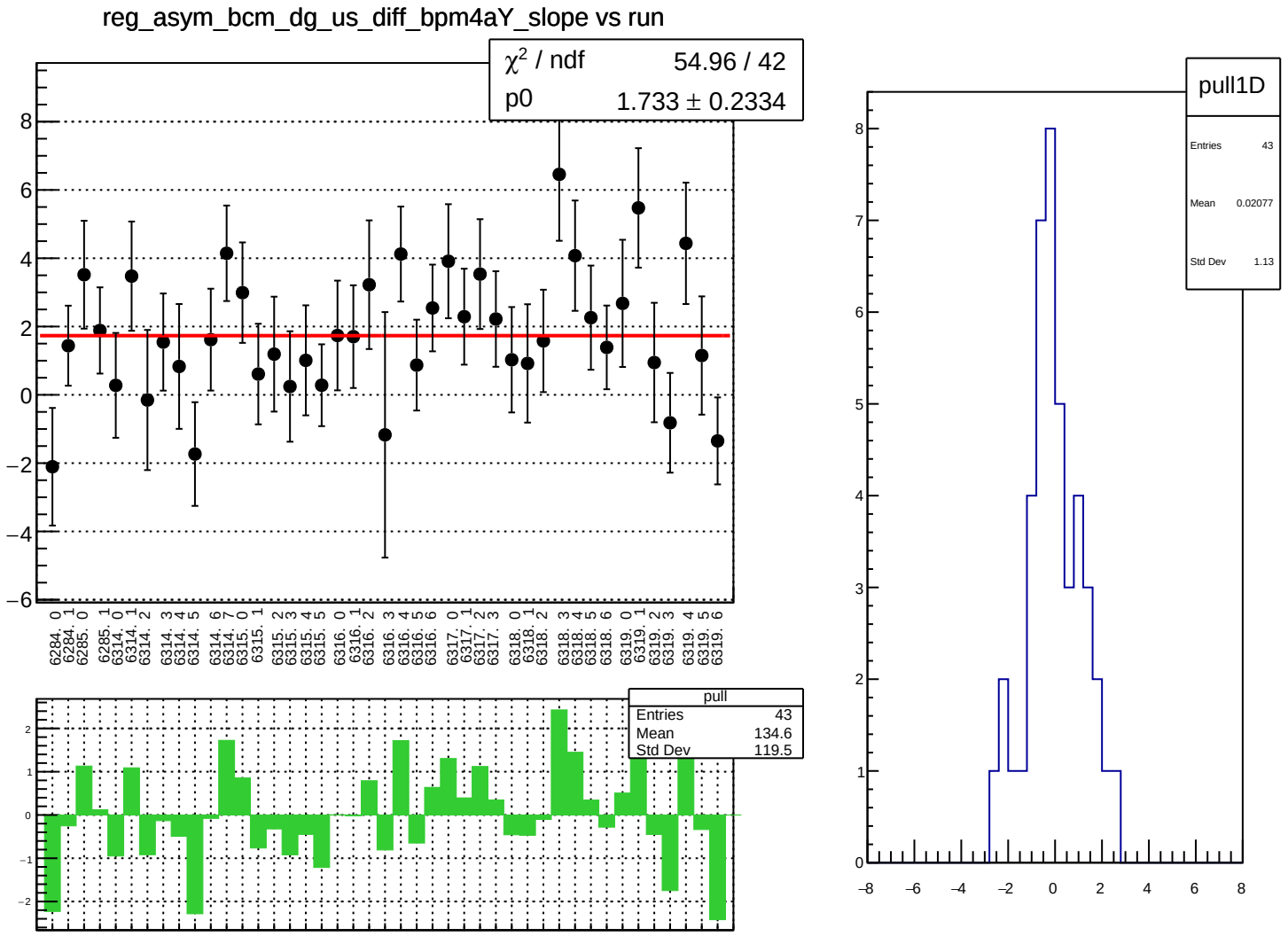

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 80.46 / 42
p0 −5.103 ± 0.2814
5
0
−5
−10
−15
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 128.2
Std Dev 109.1
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.07737
Std Dev 1.366
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

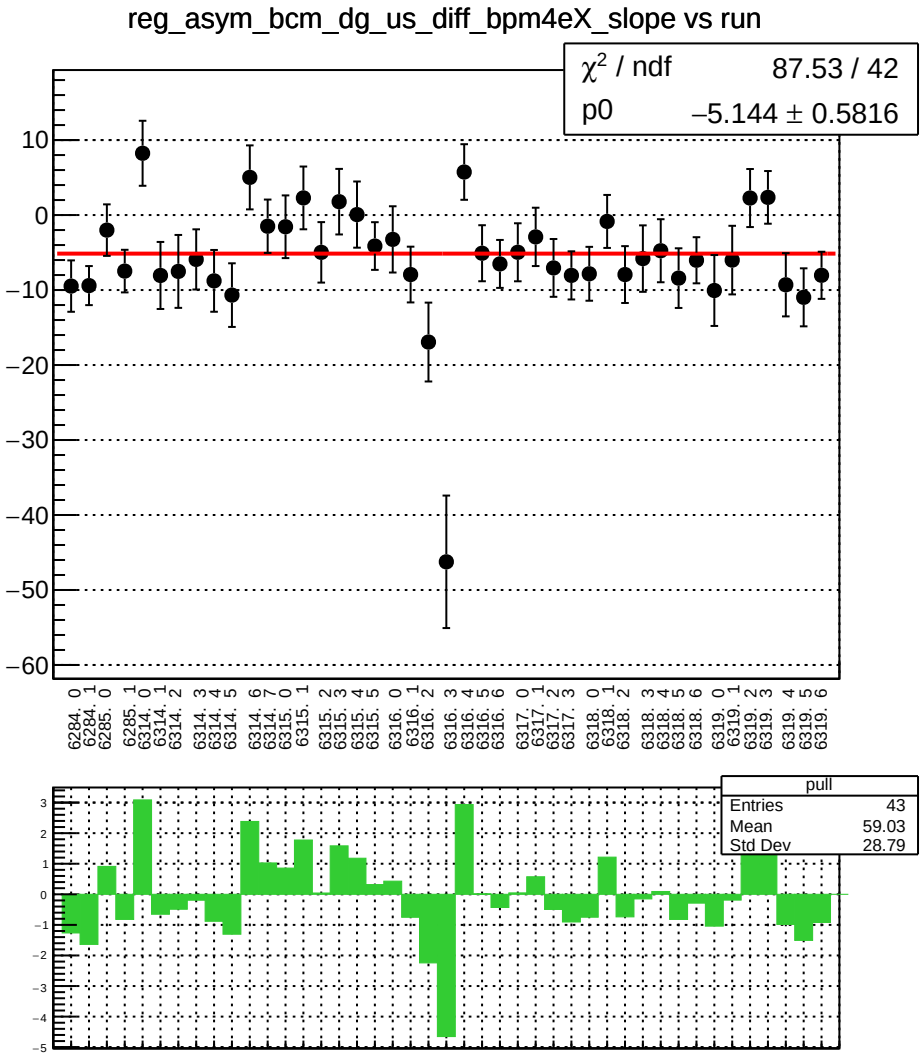

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 182.3 / 42
p0 0.6256 ± 0.02198
pull
Entries 43
Mean 82.26
Std Dev 63.95

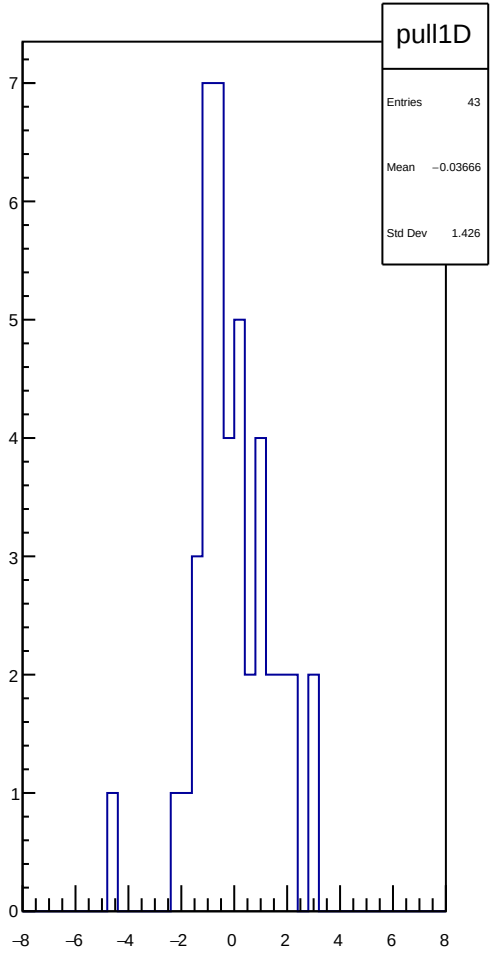

pull1D
Entries 43
Mean 0.1954
Std Dev 2.05

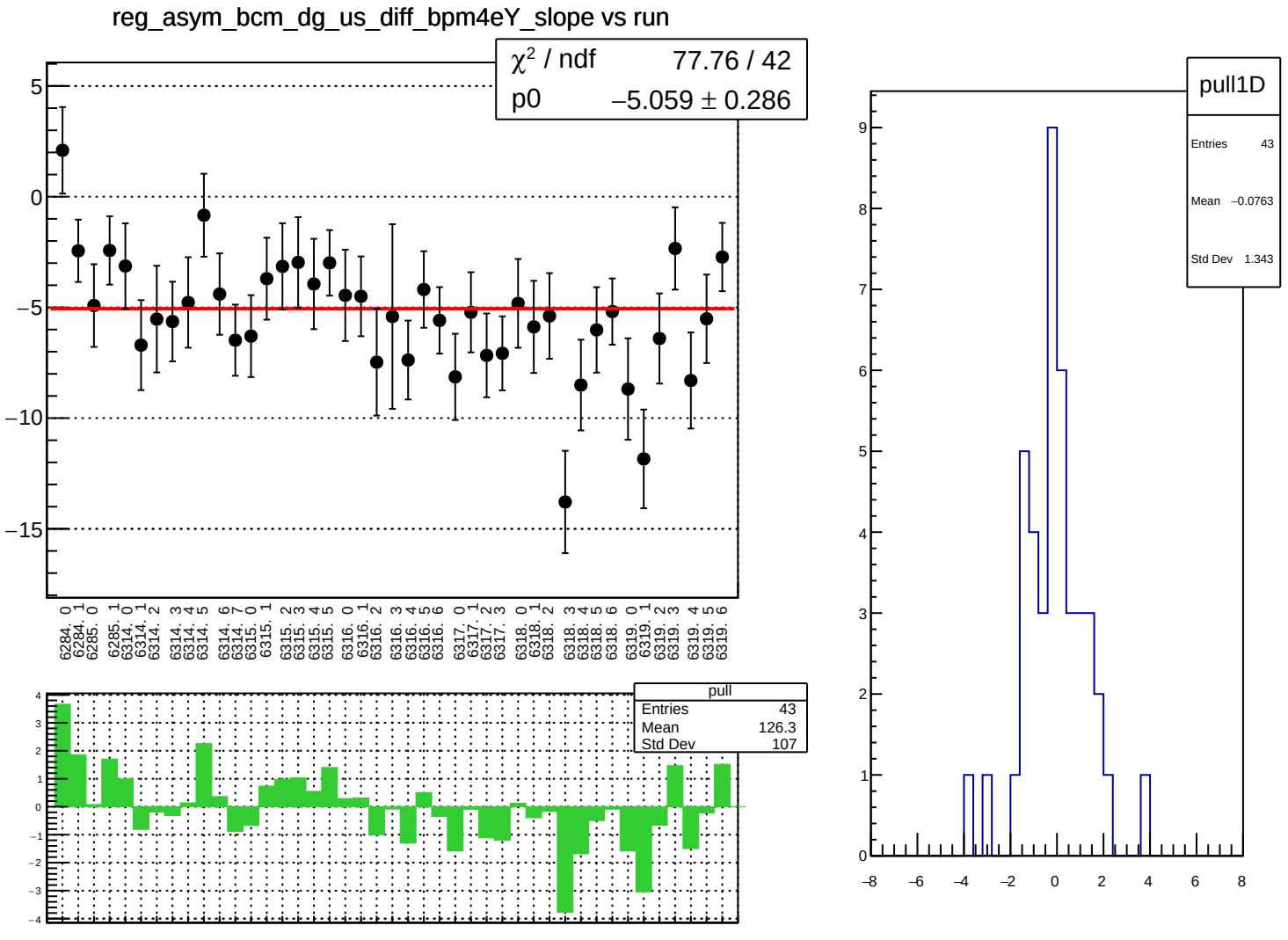

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 85.45 / 42
p0 5.671 ± 0.5394
pull
Entries 43
Mean 65.8
Std Dev 40.62

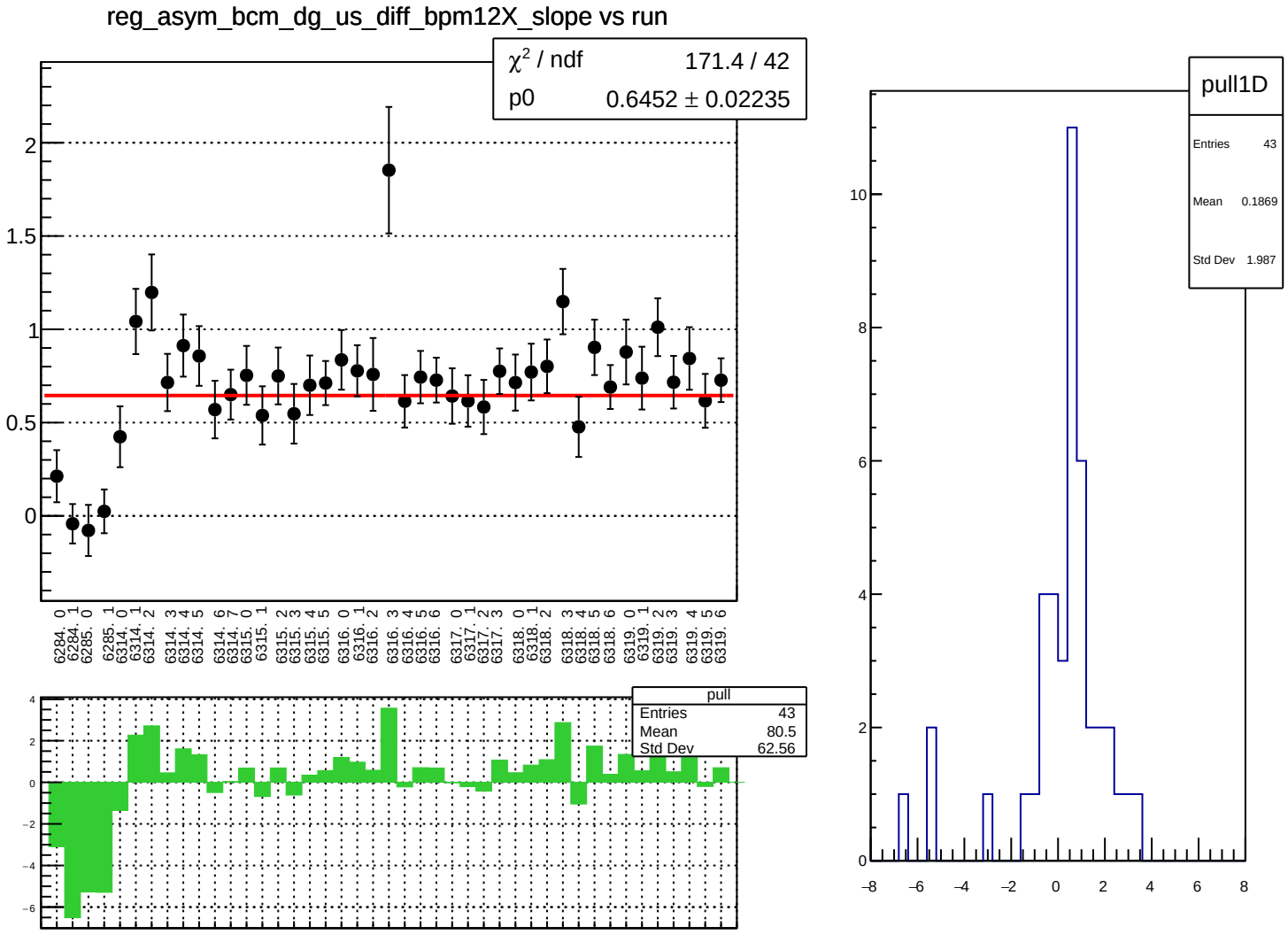

pull1D
Entries 43
Mean 0.04823
Std Dev 1.409


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 54.96 / 42
p0 1.733 ± 0.2334
pull
Entries 43
Mean 134.6
Std Dev 119.5
pull1D
Entries 43
Mean 0.02077
Std Dev 1.13


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 87.53 / 42
p0 −5.144 ± 0.5816
pull
Entries 43
Mean 59.03
Std Dev 28.79


pull1D
Entries 43
Mean −0.03666
Std Dev 1.426


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 77.76 / 42
p0 −5.059 ± 0.286
5
0
−5
−10
−15
6284. 0
6284. 1
6285. 0
6285. 1
6314. 0
6314. 1
6314. 2
6314. 3
6314. 4
6314. 5
6314. 6
6314. 7
6315. 0
6315. 1
6315. 2
6315. 3
6315. 4
6315. 5
6316. 0
6316. 1
6316. 2
6316. 3
6316. 4
6316. 5
6316. 6
6317. 0
6317. 1
6317. 2
6317. 3
6318. 0
6318. 1
6318. 2
6318. 3
6318. 4
6318. 5
6318. 6
6319. 0
6319. 1
6319. 2
6319. 3
6319. 4
6319. 5
6319. 6
pull
Entries 43
Mean 126.3
Std Dev 107
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.0763
Std Dev 1.343
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 171.4 / 42
p0 0.6452 ± 0.02235
pull
Entries 43
Mean 80.5
Std Dev 62.56
pull1D
Entries 43
Mean 0.1869
Std Dev 1.987