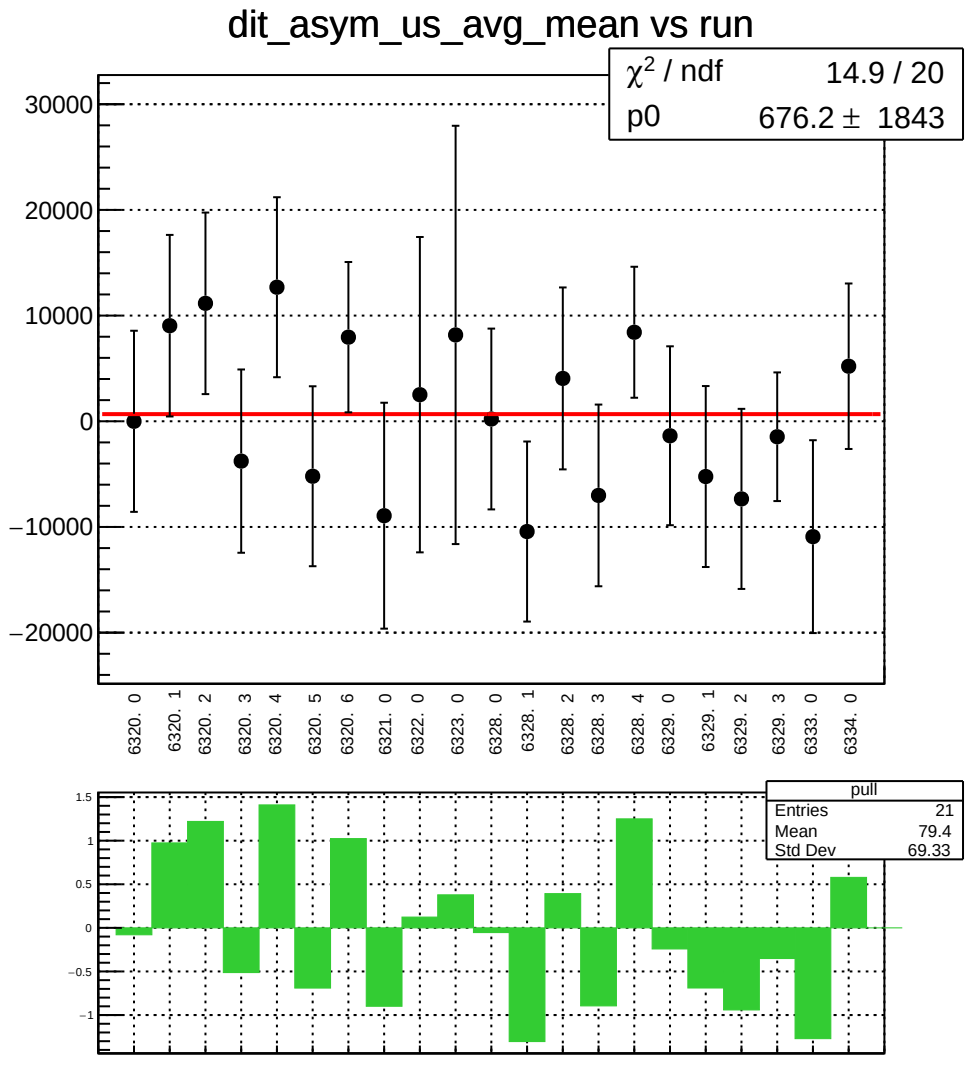
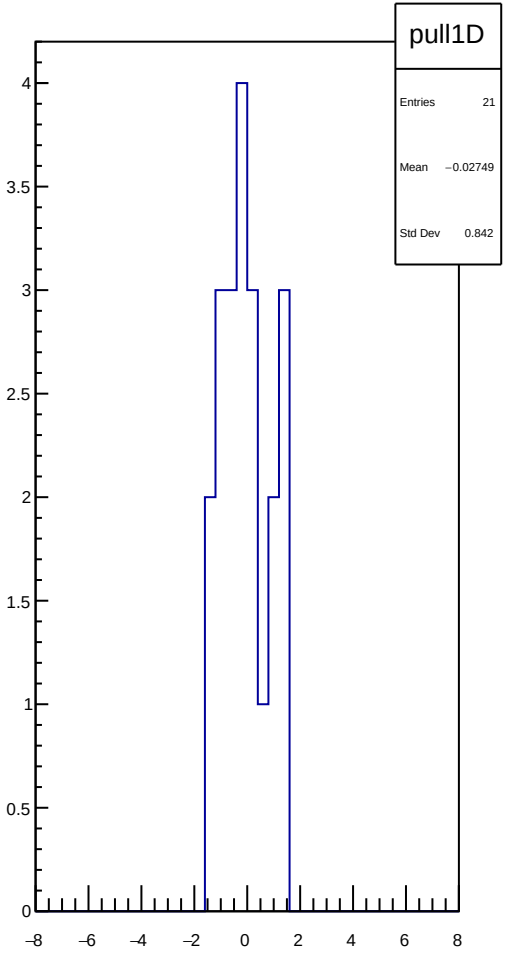
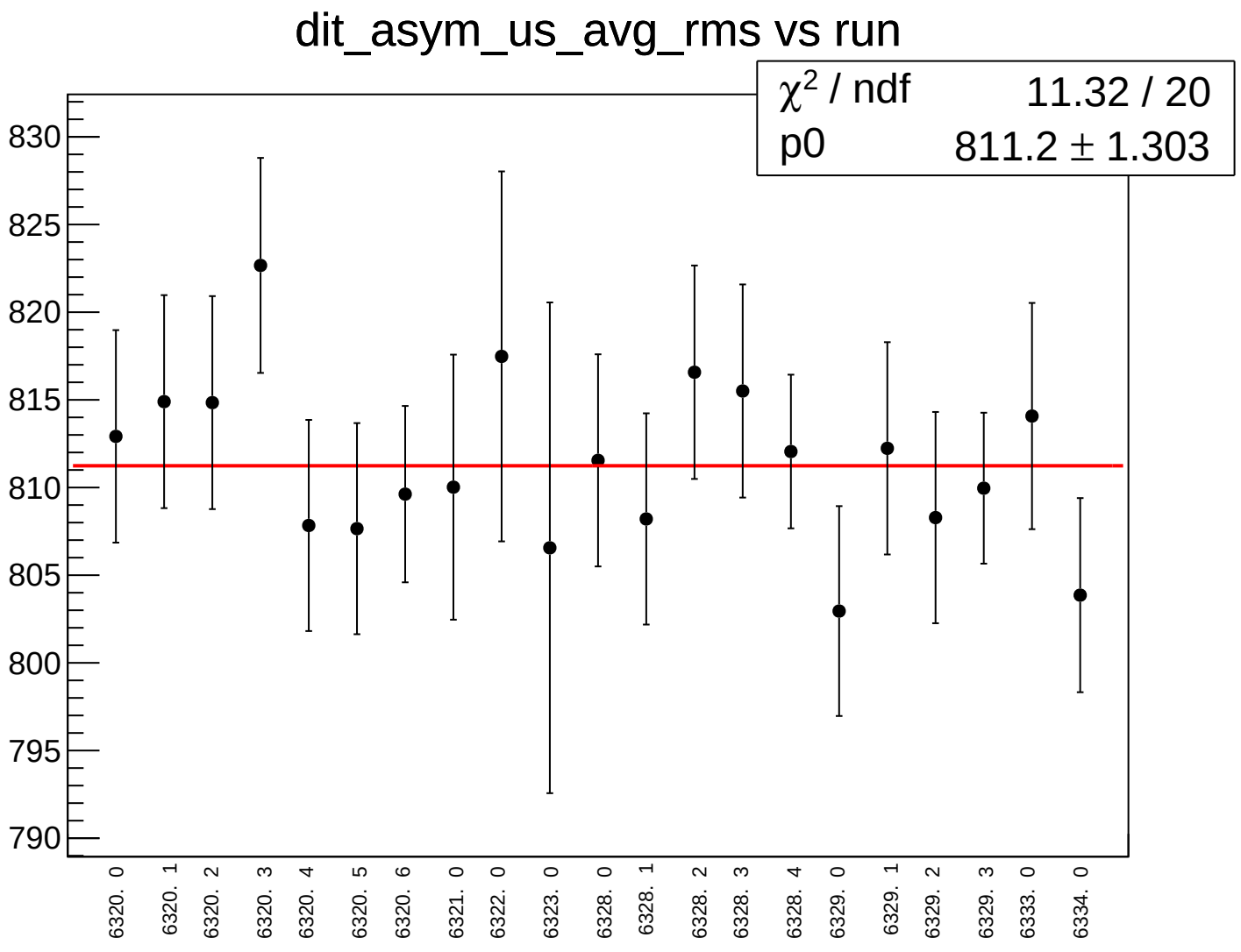
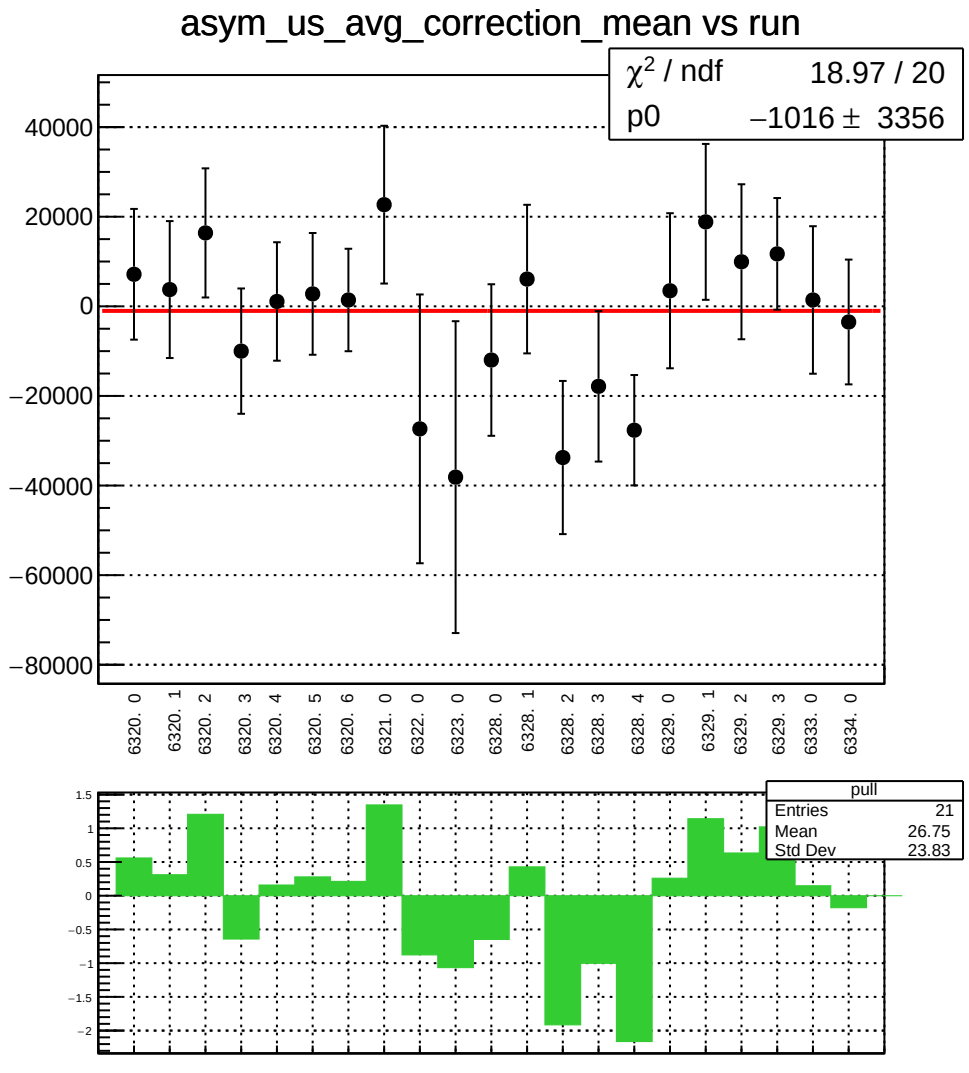
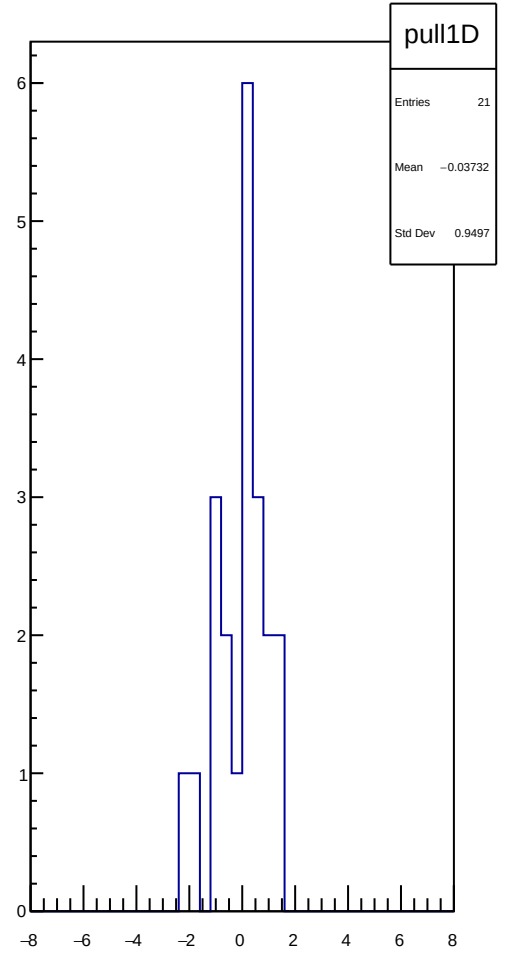
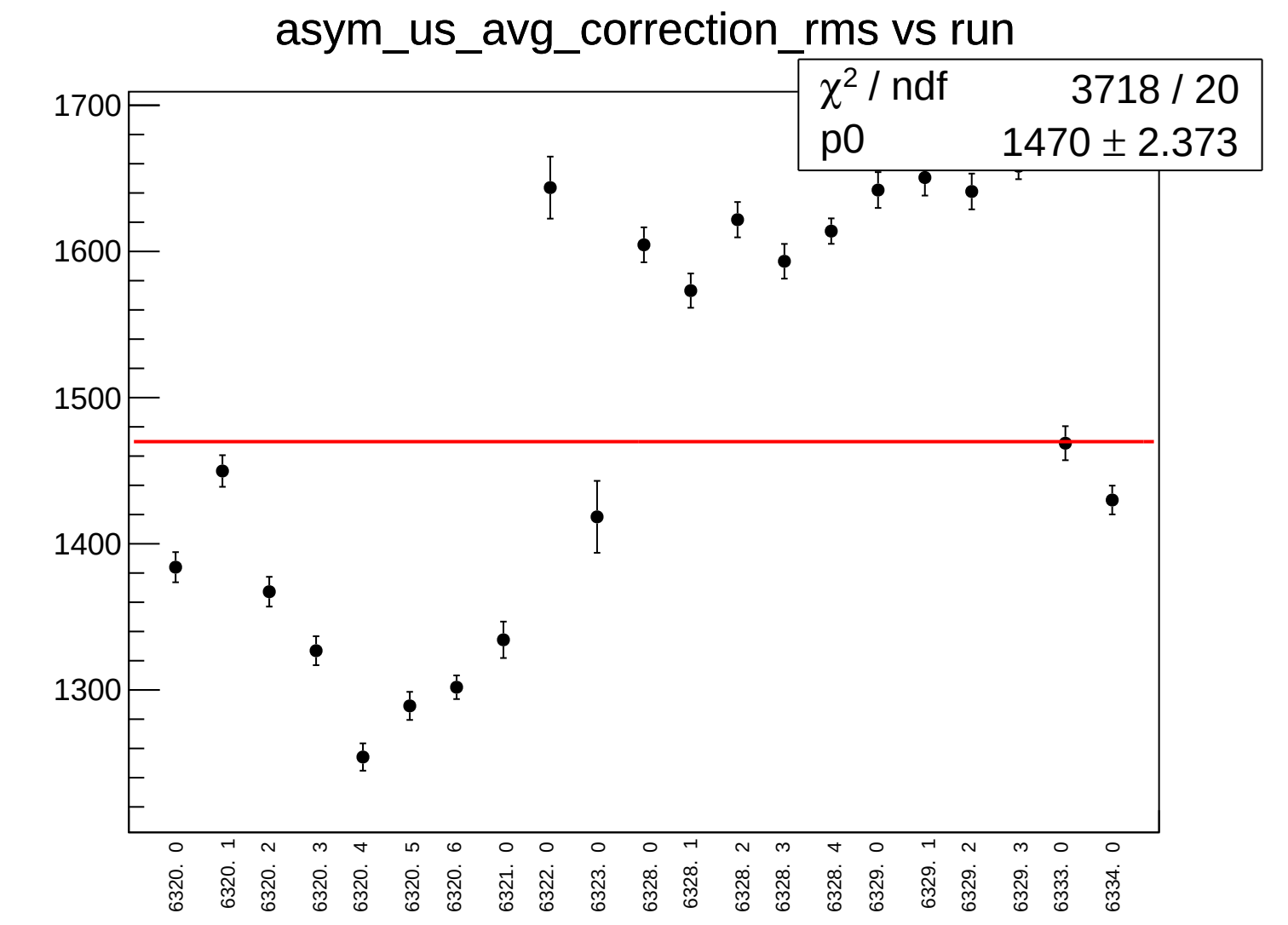

dit_asym_us_avg_mean vs run
χ² / ndf 14.9 / 20
p0 676.2 ± 1843
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 79.4
Std Dev 69.33
1.5
1
0.5
0
−0.5
−1

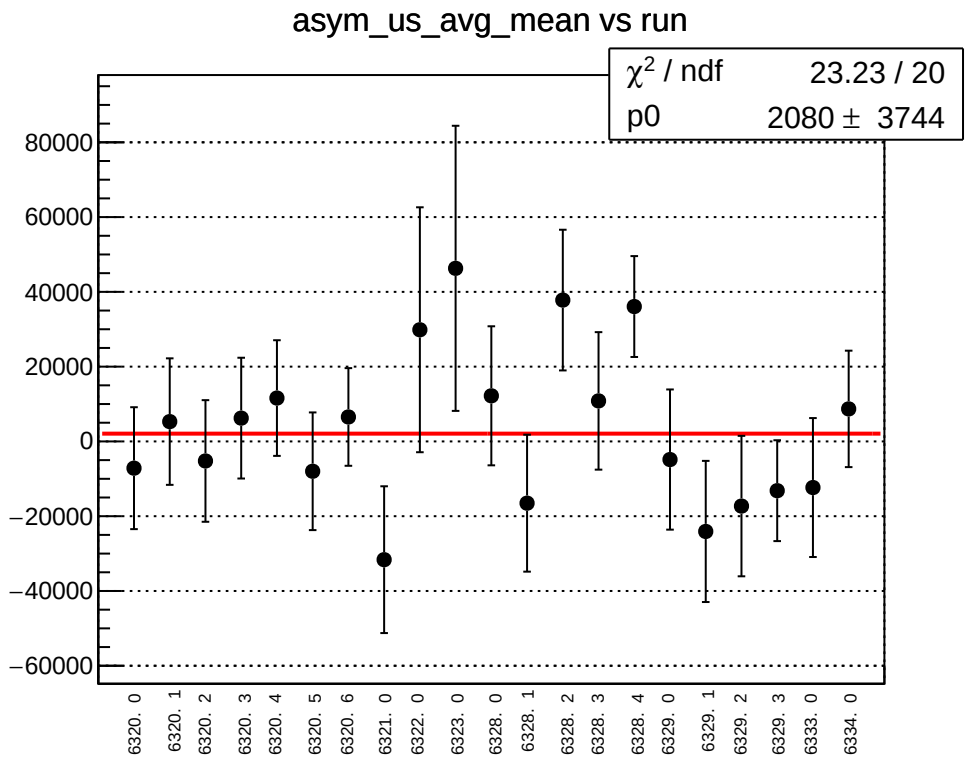

pull1D
Entries 21
Mean −0.02749
Std Dev 0.842
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

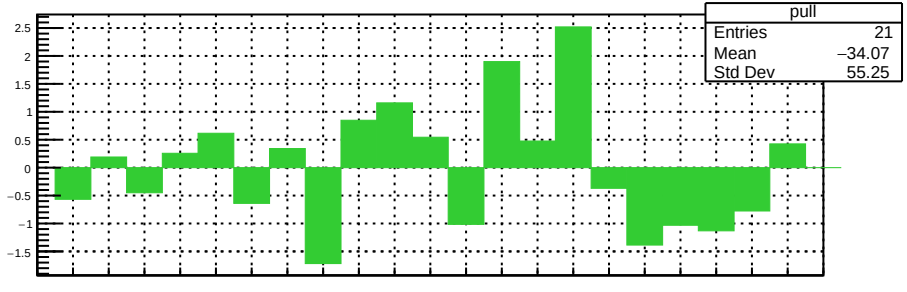

dit_asym_us_avg_rms vs run
χ² / ndf 11.32 / 20
p0 811.2 ± 1.303
830
825
820
815
810
805
800
795
790
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

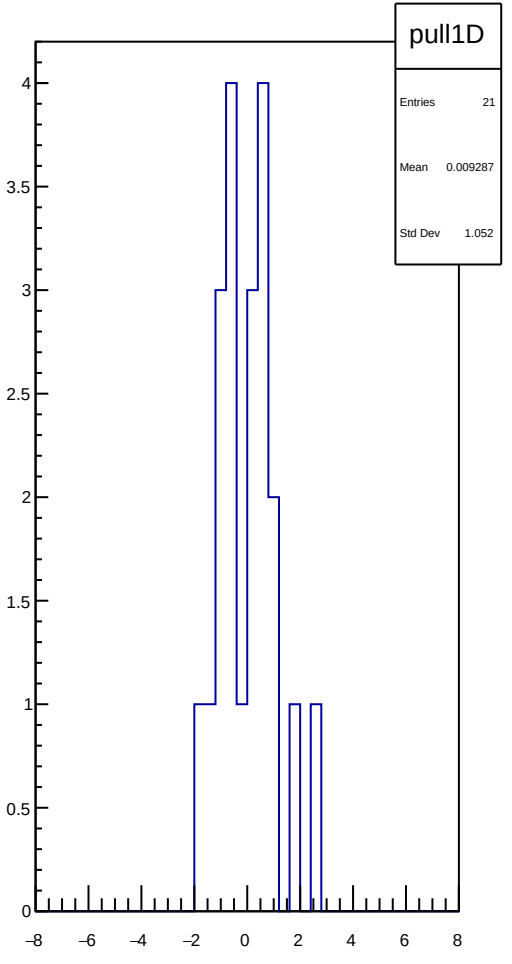

asym_us_avg_correction_mean vs run
χ² / ndf 18.97 / 20
p0 −1016 ± 3356
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 26.75
Std Dev 23.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2

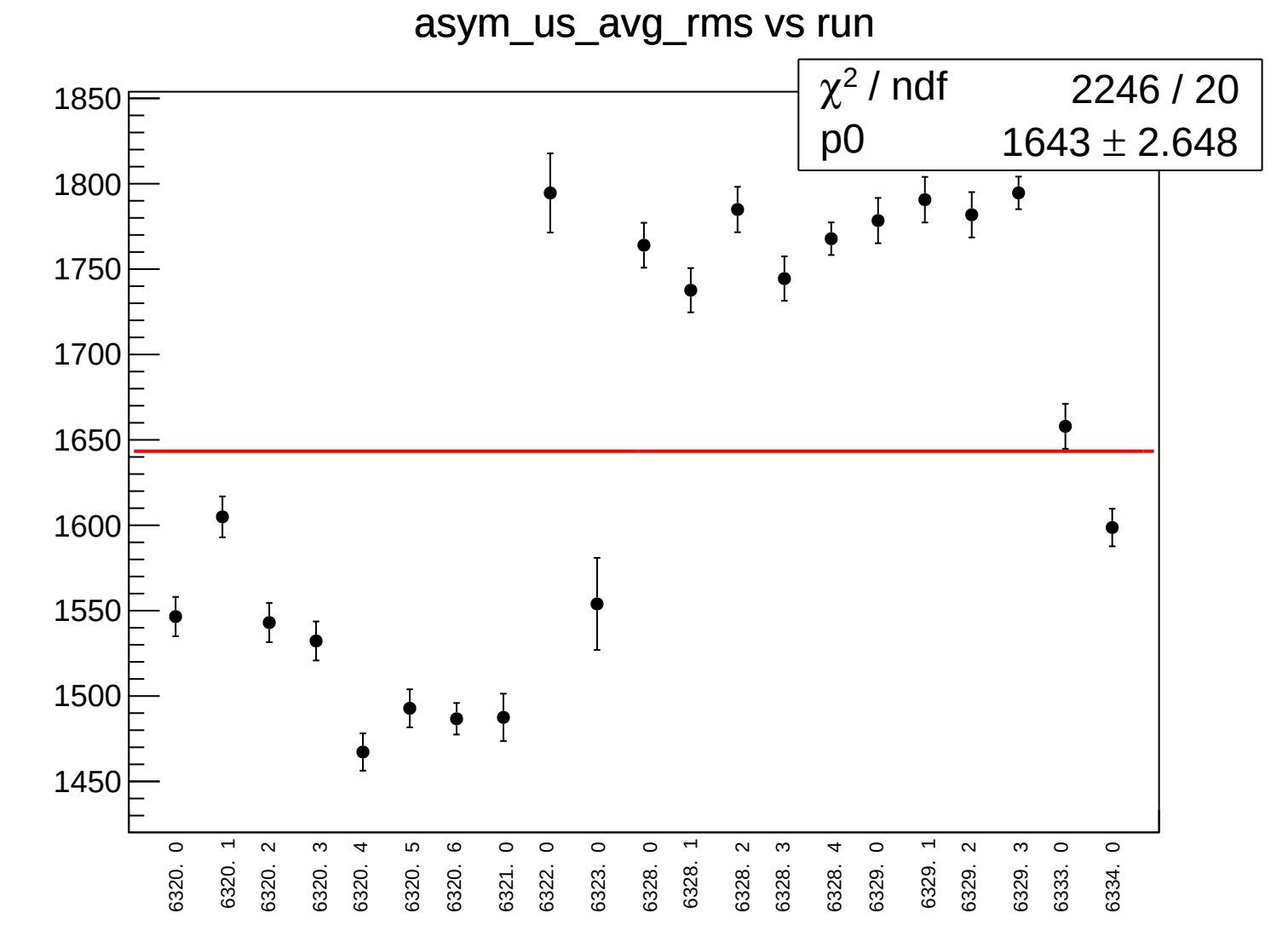

pull1D
Entries 21
Mean −0.03732
Std Dev 0.9497
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

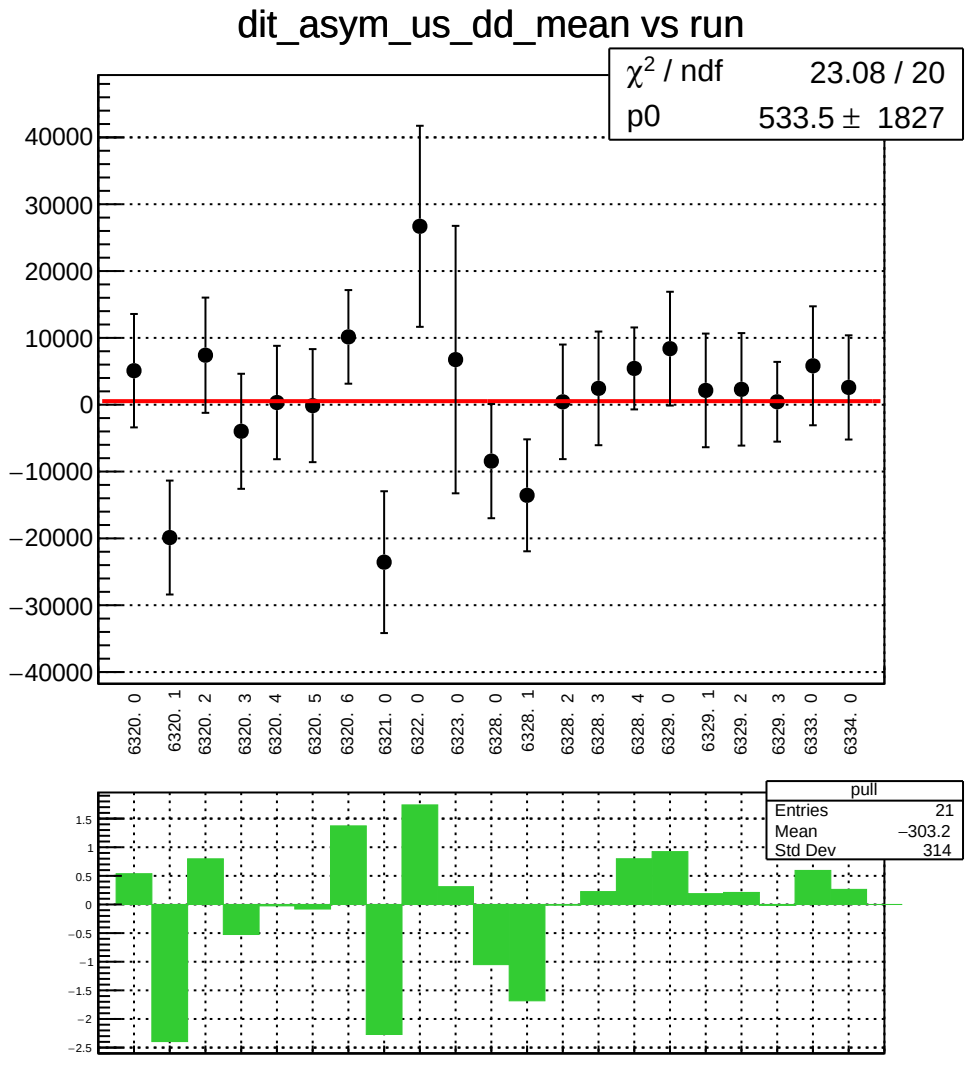

asym_us_avg_correction_rms vs run
χ² / ndf 3718 / 20
p0 1470 ± 2.373
1700
1600
1500
1400
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

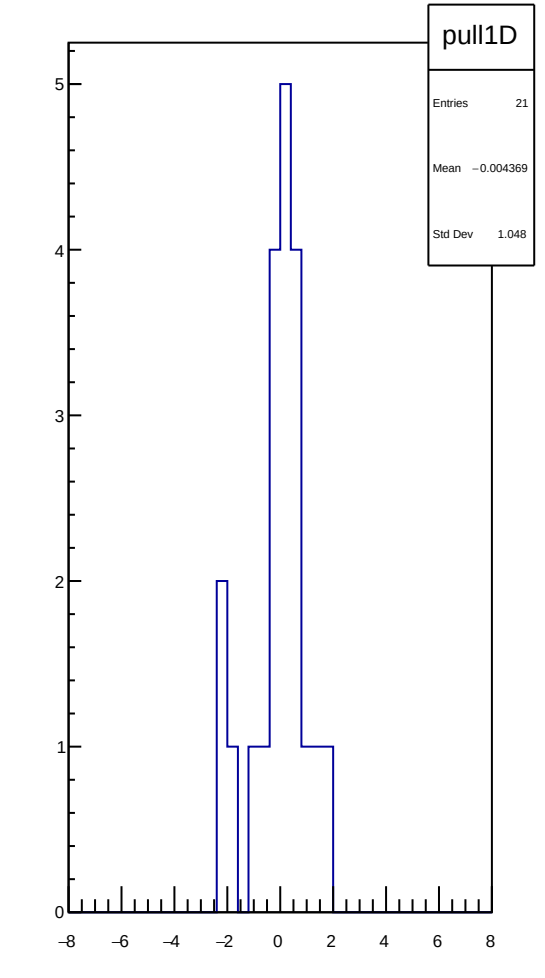

asym_us_avg_mean vs run
χ² / ndf 23.23 / 20
p0 2080 ± 3744
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

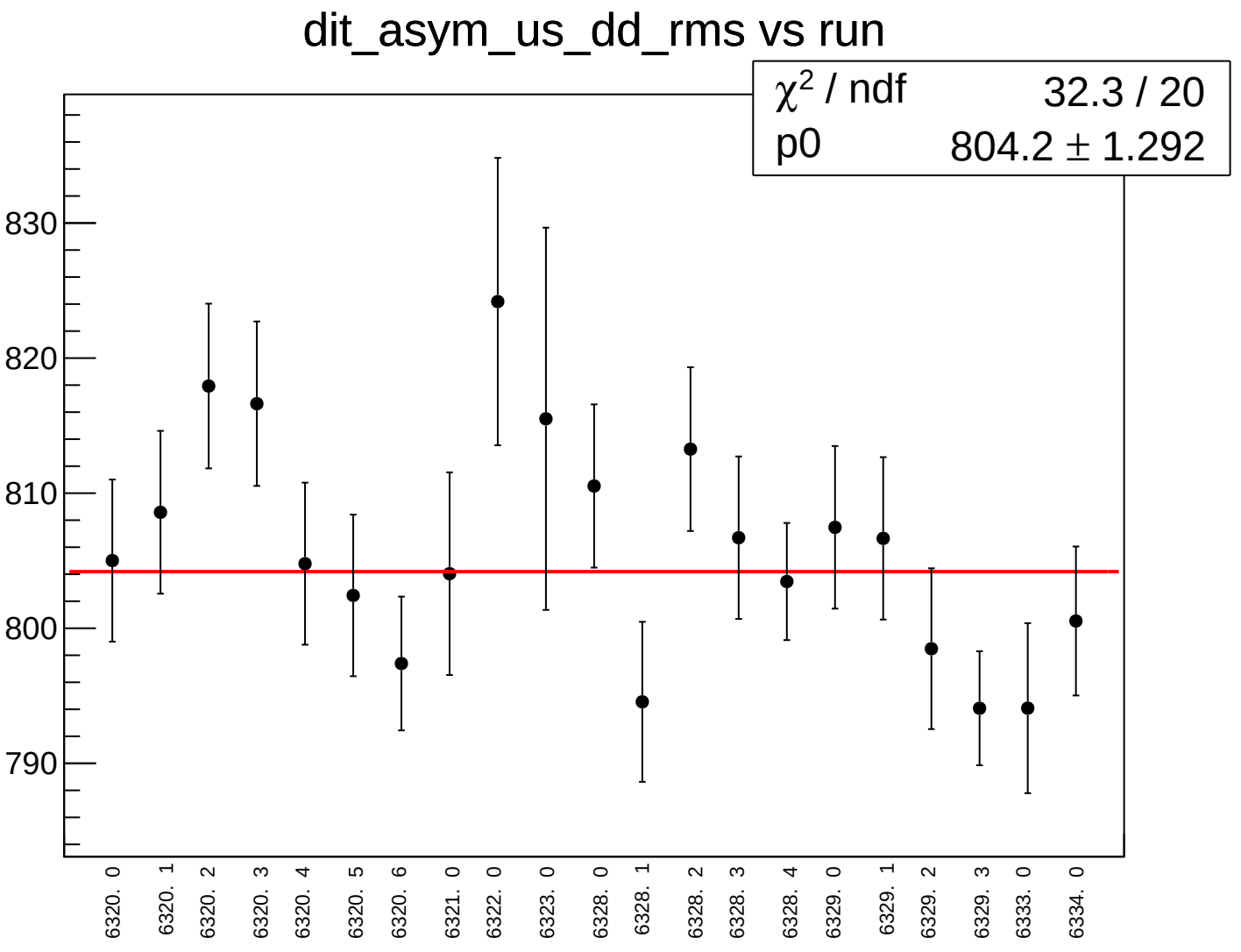

pull
Entries 21
Mean −34.07
Std Dev 55.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

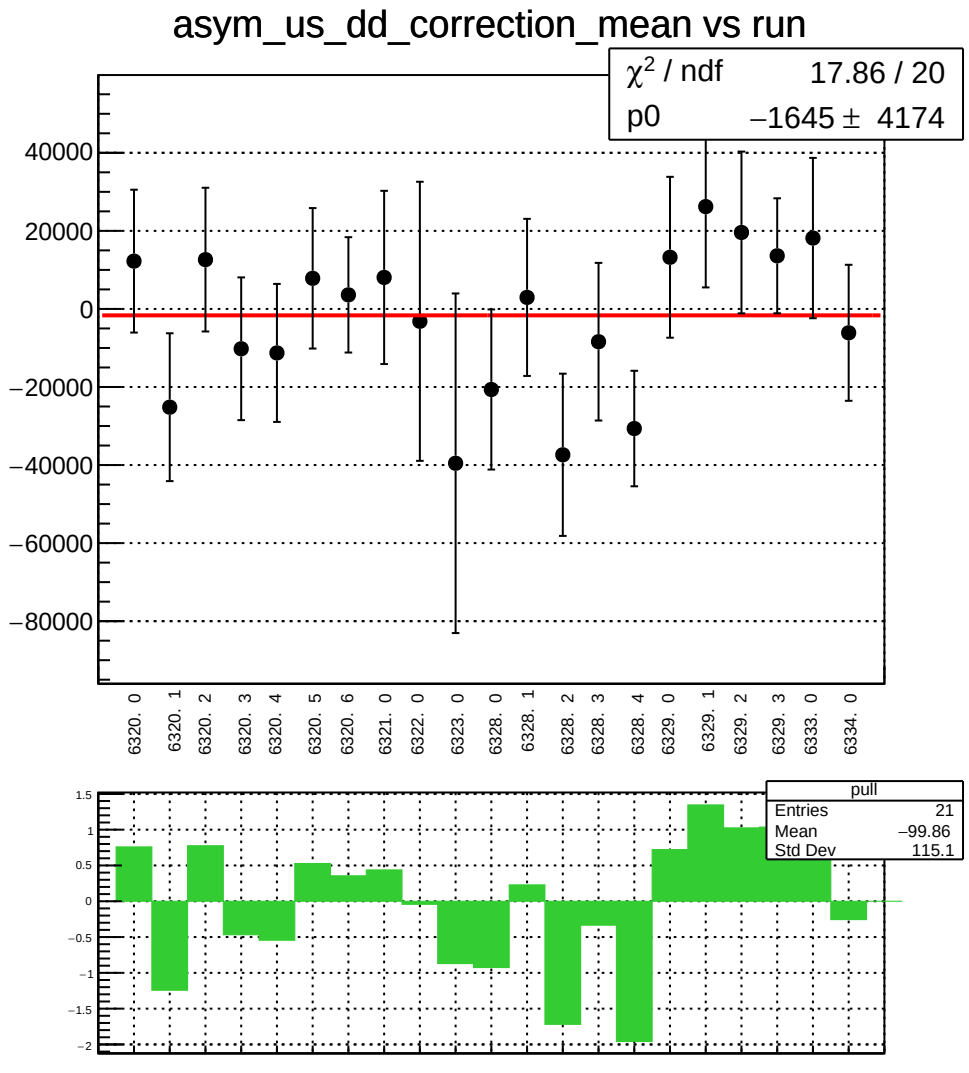

pull1D
Entries 21
Mean 0.009287
Std Dev 1.052
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

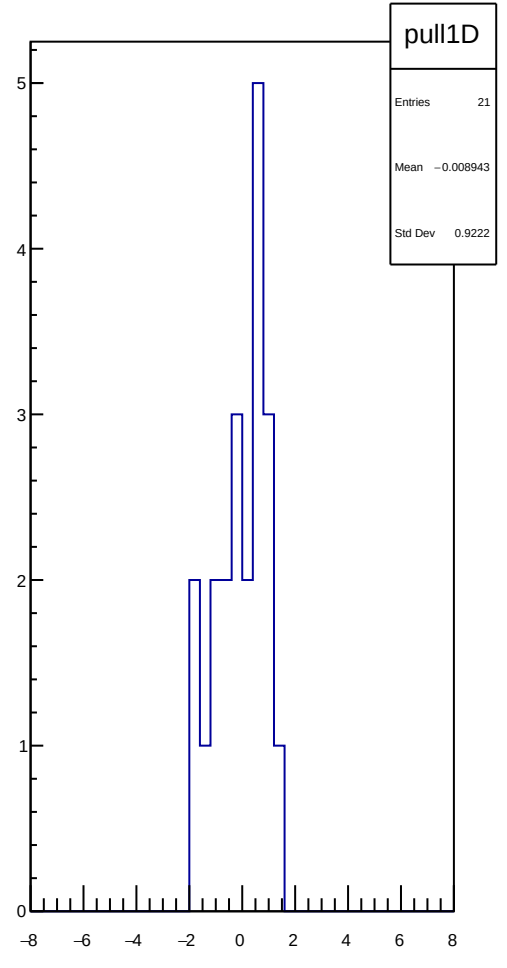

asym_us_avg_rms vs run
χ² / ndf 2246 / 20
p0 1643 ± 2.648
1850
1800
1750
1700
1650
1600
1550
1500
1450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

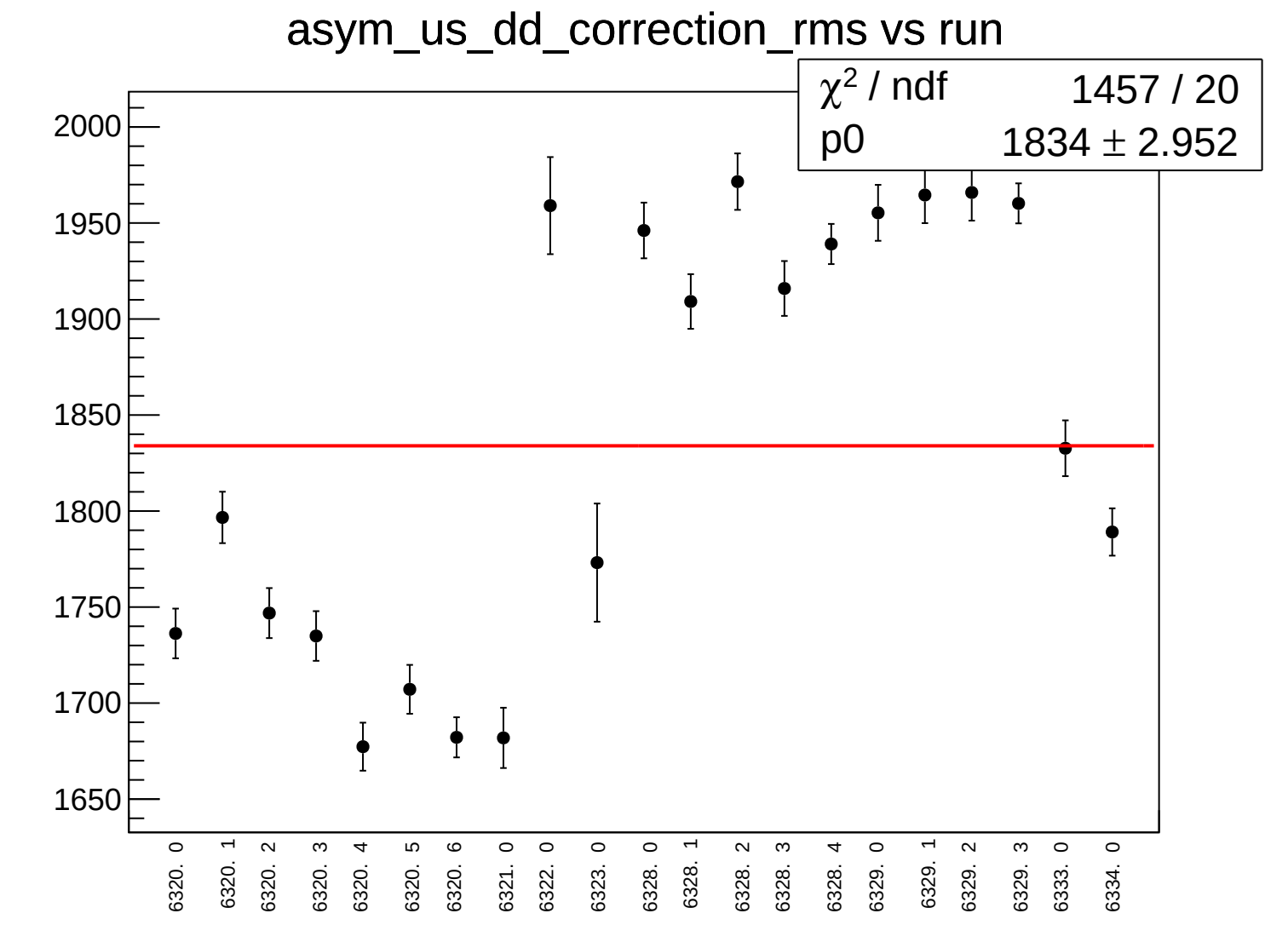

dit_asym_us_dd_mean vs run
χ² / ndf 23.08 / 20
p0 533.5 ± 1827
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −303.2
Std Dev 314
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

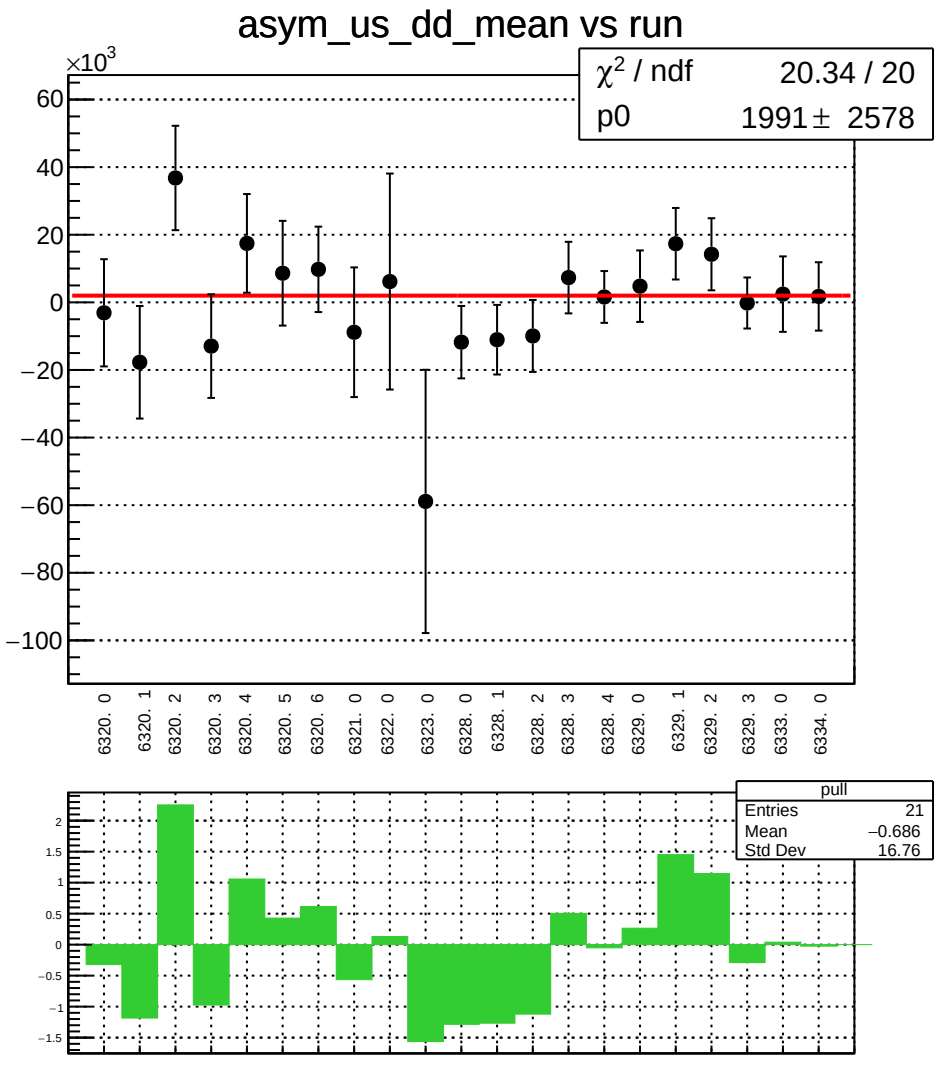

pull1D
Entries 21
Mean −0.004369
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

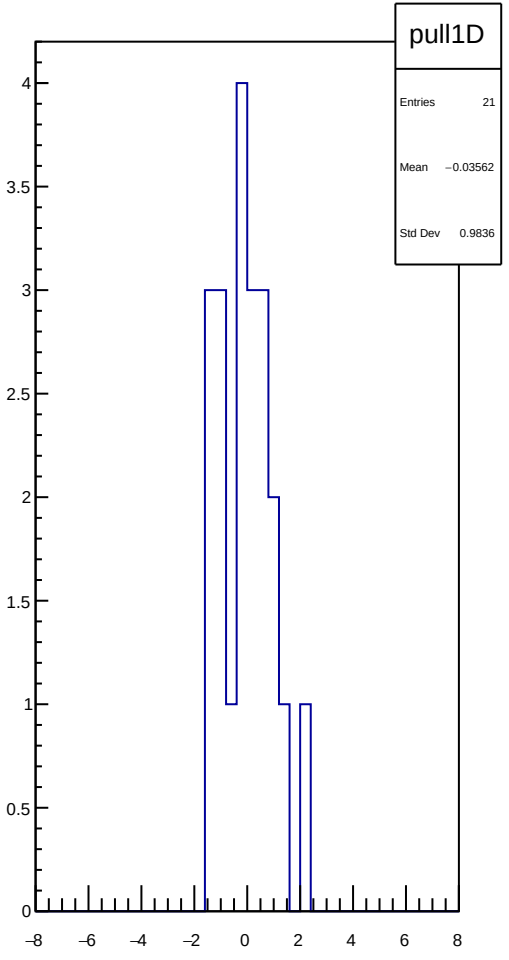

dit_asym_us_dd_rms vs run
χ² / ndf 32.3 / 20
p0 804.2 ± 1.292
830
820
810
800
790
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

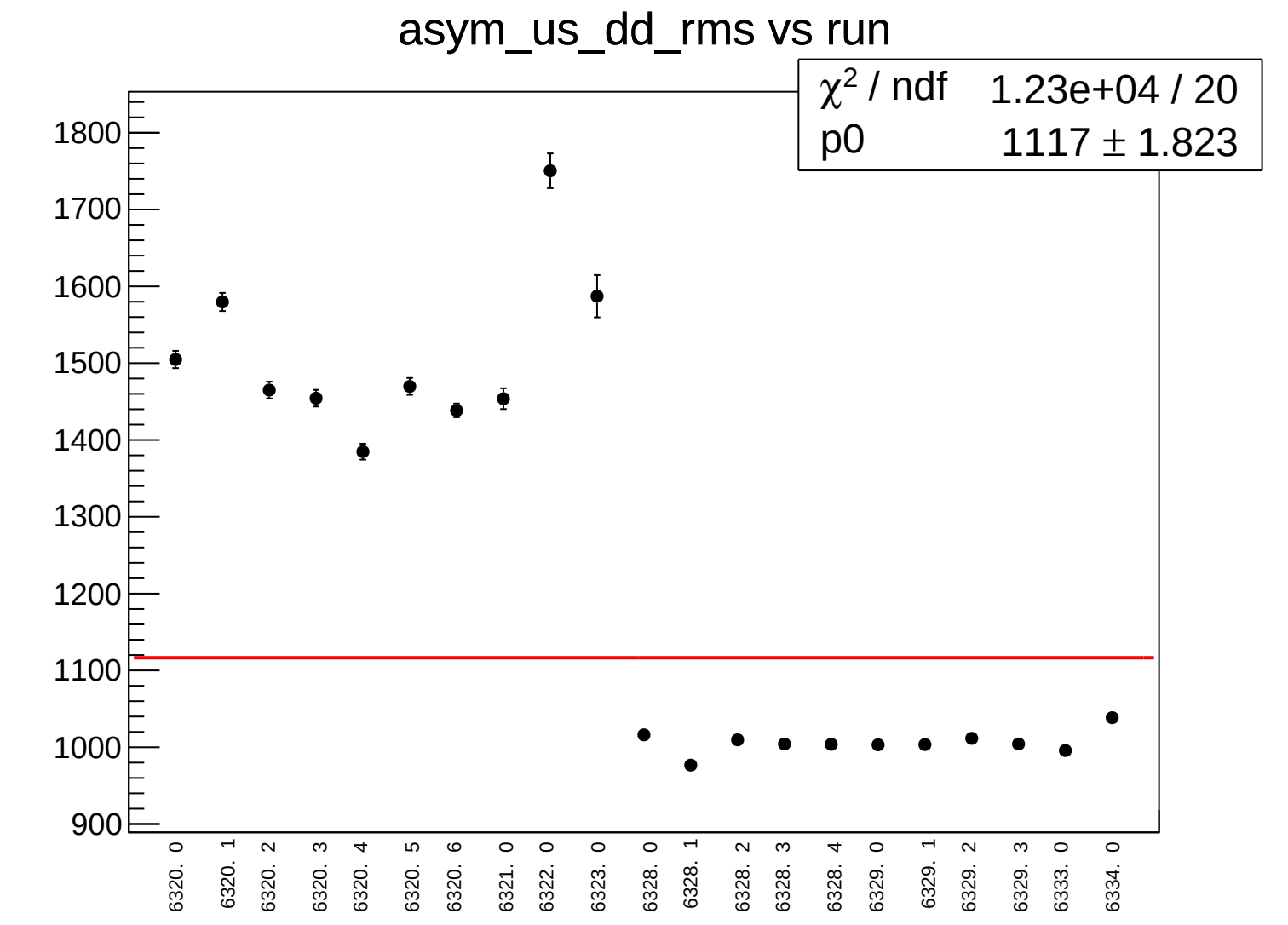

asym_us_dd_correction_mean vs run
χ² / ndf 17.86 / 20
p0 −1645 ± 4174
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −99.86
Std Dev 115.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

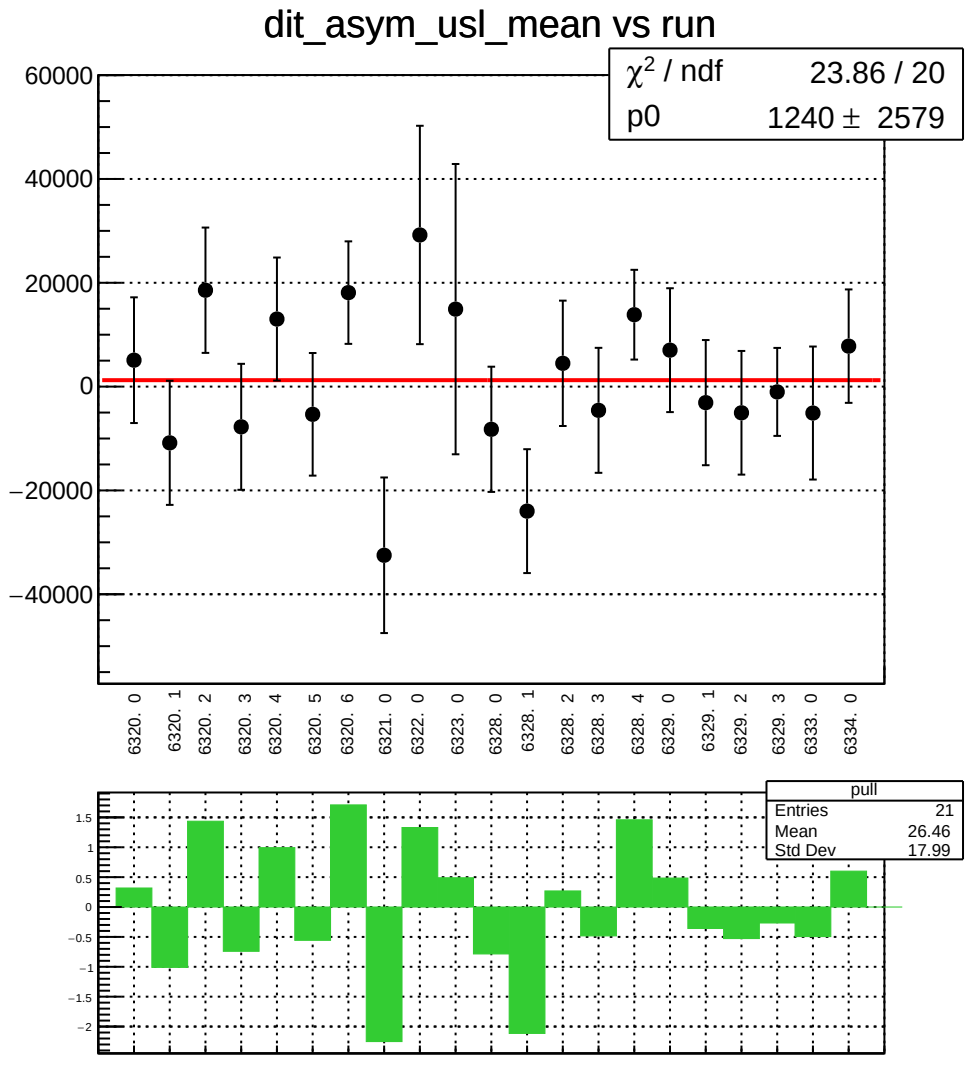

pull1D
Entries 21
Mean −0.008943
Std Dev 0.9222
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

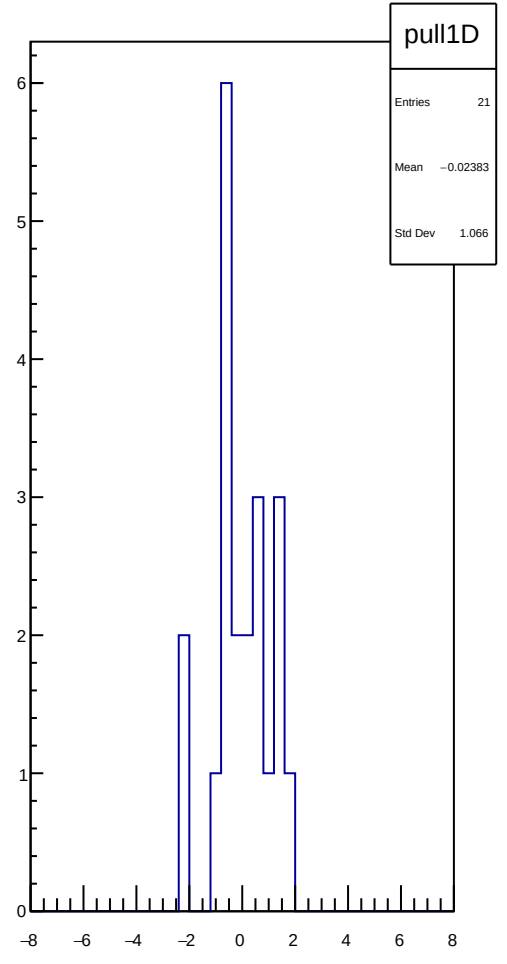

asym_us_dd_correction_rms vs run
χ² / ndf 1457 / 20
p0 1834 ± 2.952
2000
1950
1900
1850
1800
1750
1700
1650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

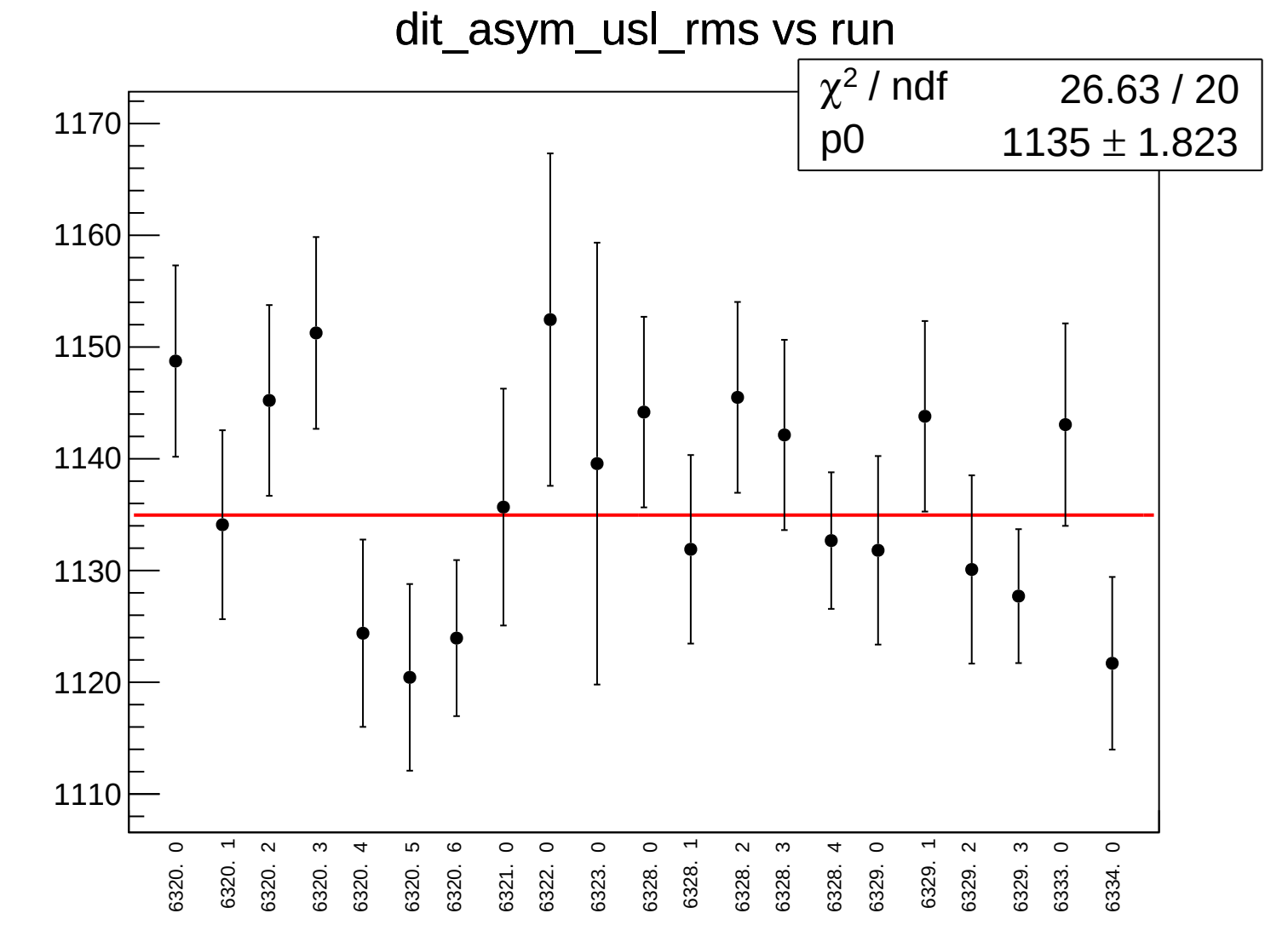

asym_us_dd_mean vs run
×10^3
χ^2 / ndf 20.34 / 20
p0 1991 ± 2578
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.686
Std Dev 16.76
2
1.5
1
0.5
0
−0.5
−1
−1.5

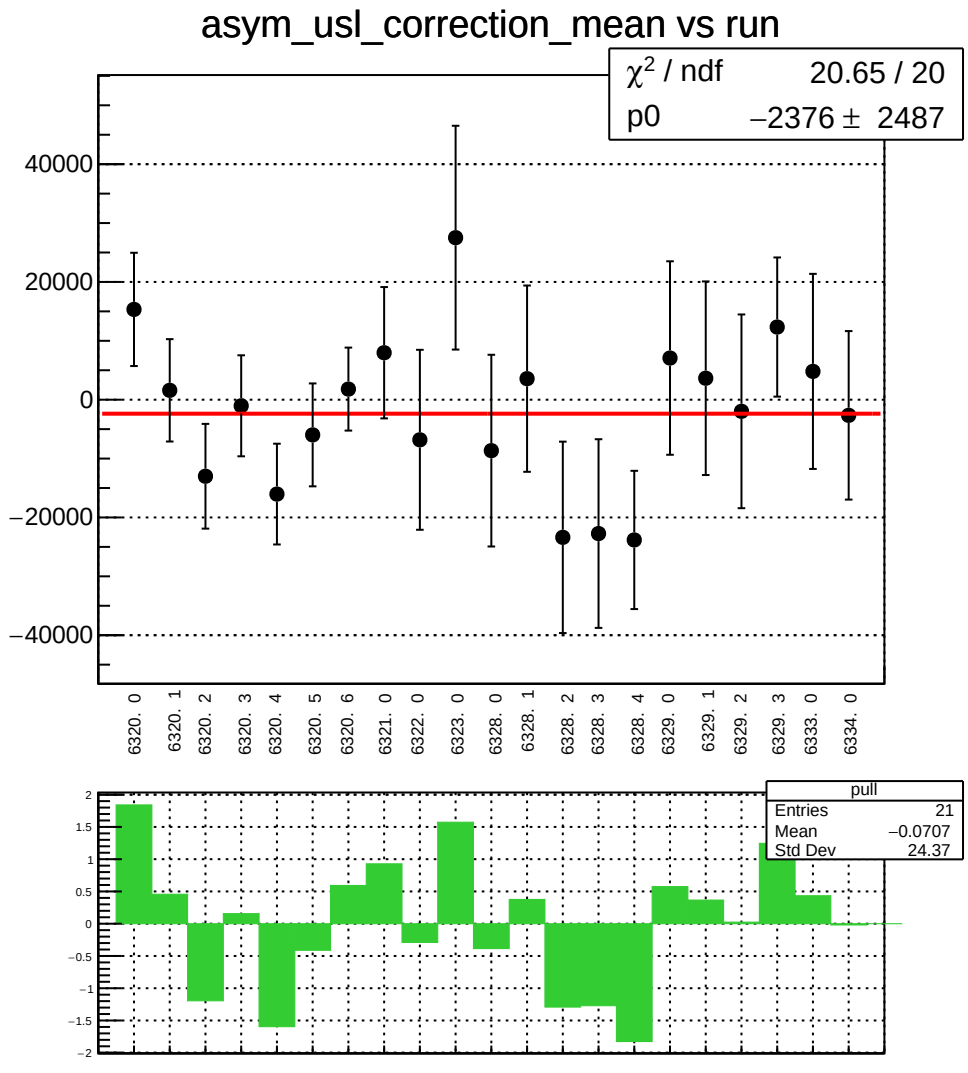

pull1D
Entries 21
Mean −0.03562
Std Dev 0.9836
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

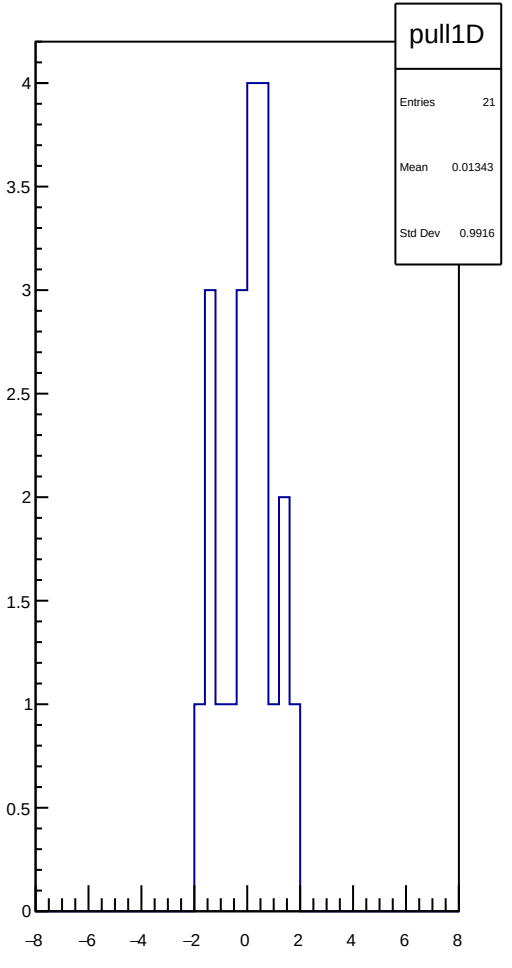

asym_us_dd_rms vs run
χ² / ndf 1.23e+04 / 20
p0 1117 ± 1.823
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

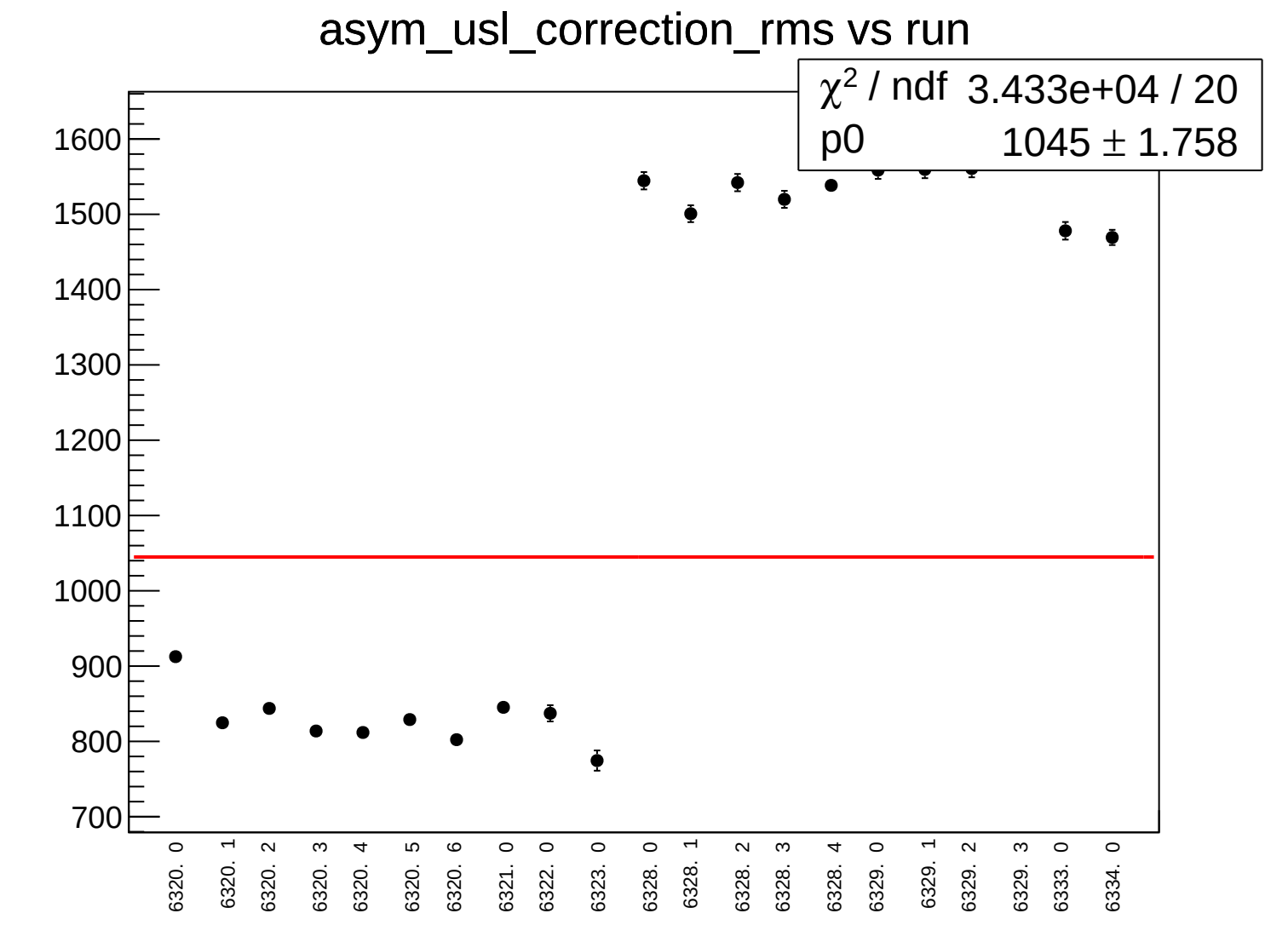

dit_asym_usl_mean vs run
χ² / ndf 23.86 / 20
p0 1240 ± 2579
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 26.46
Std Dev 17.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2

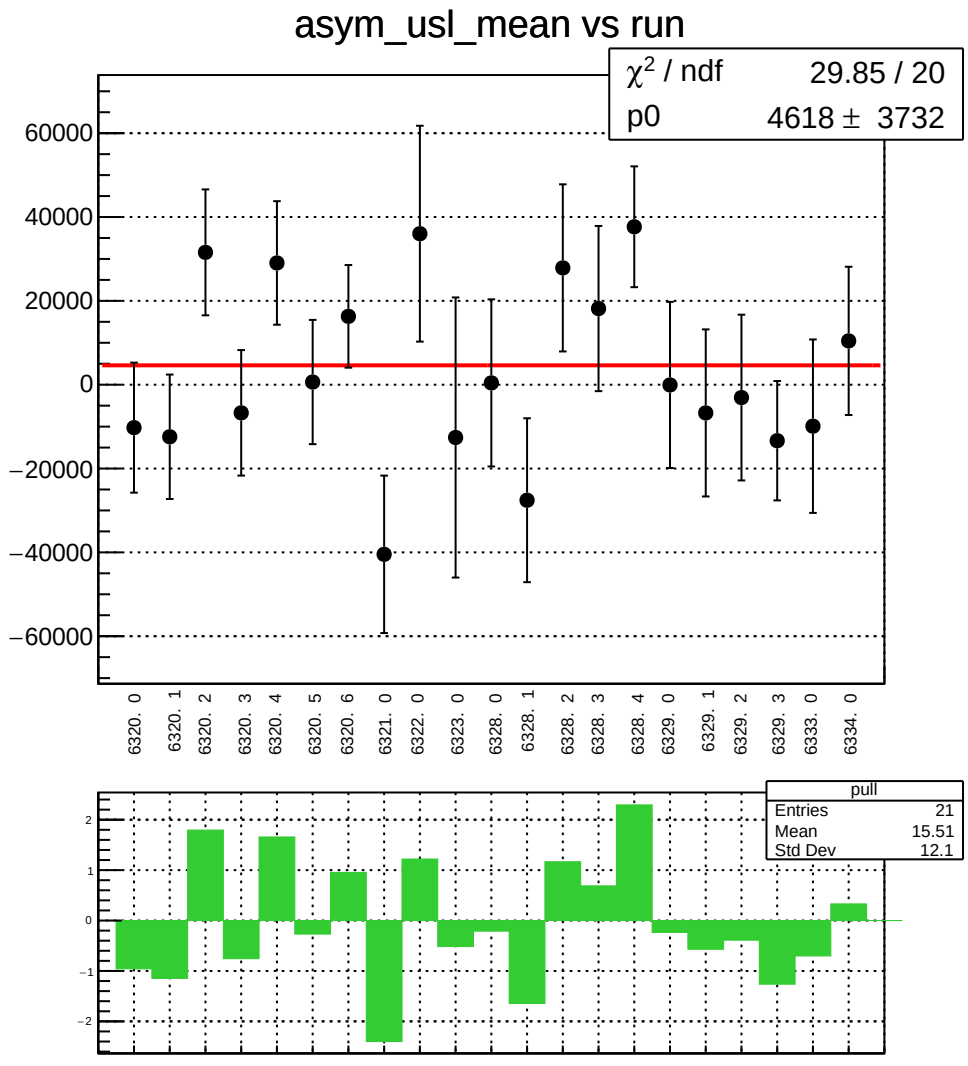

pull1D
Entries 21
Mean −0.02383
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

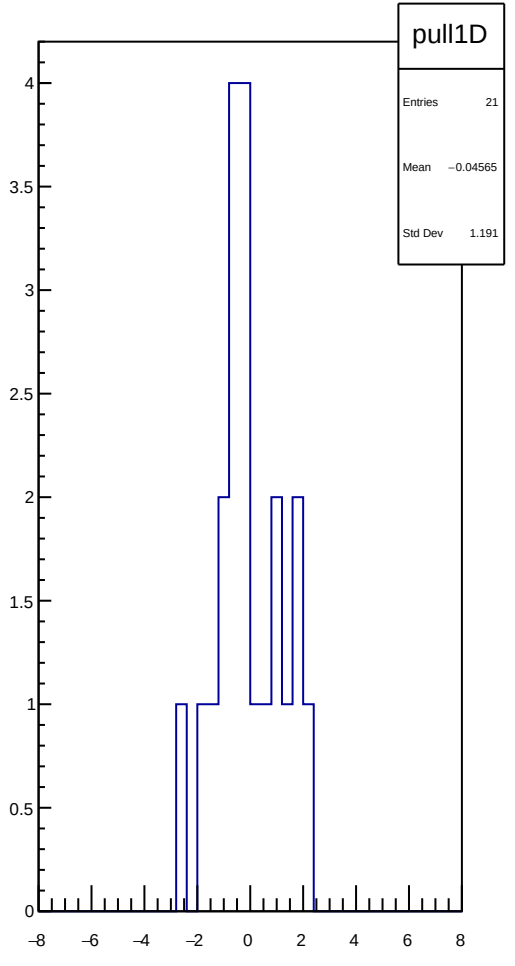

dit_asym_usl_rms vs run
χ² / ndf 26.63 / 20
p0 1135 ± 1.823
1170
1160
1150
1140
1130
1120
1110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

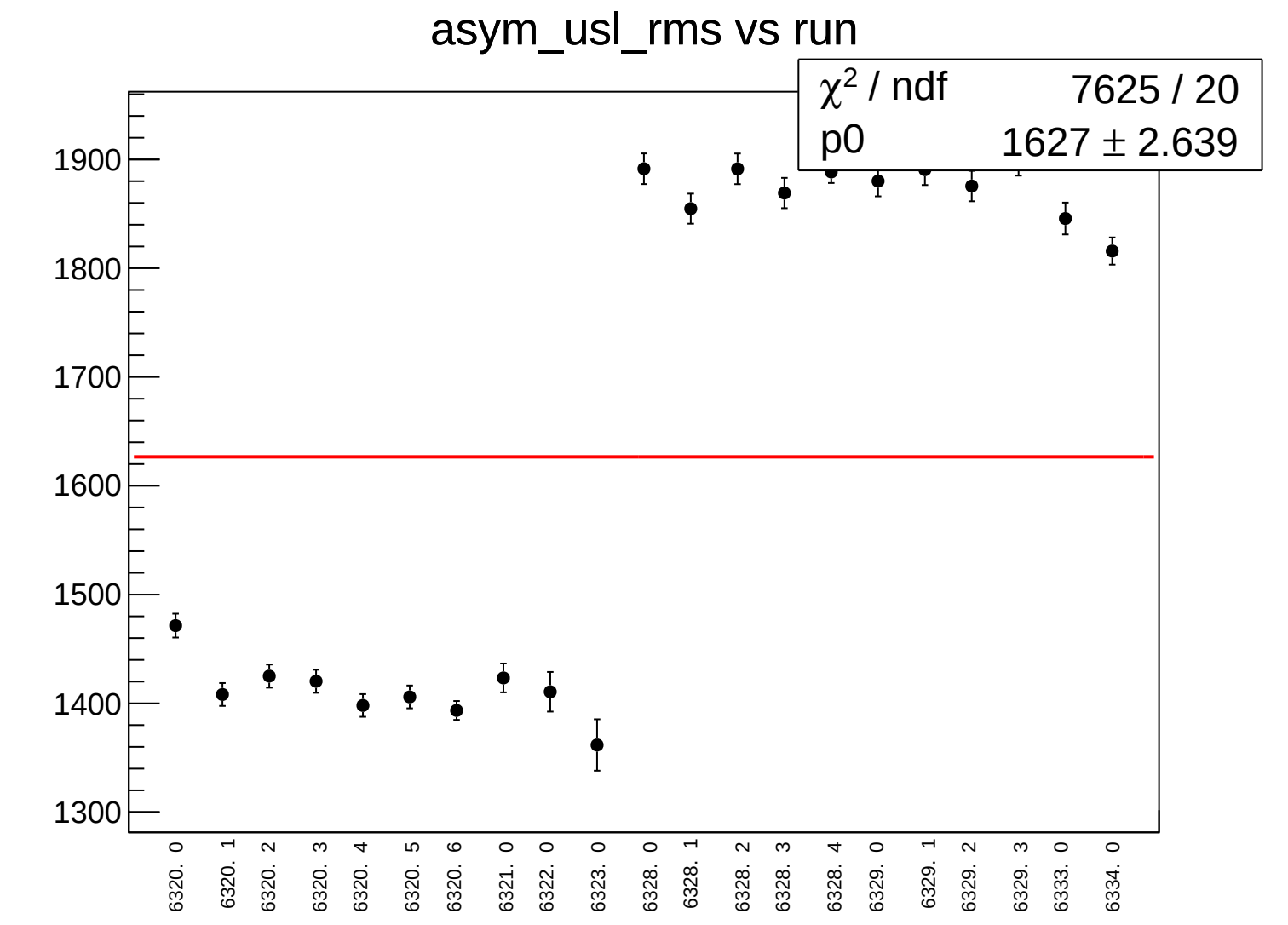

asym_usl_correction_mean vs run
χ² / ndf 20.65 / 20
p0 −2376 ± 2487
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.0707
Std Dev 24.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

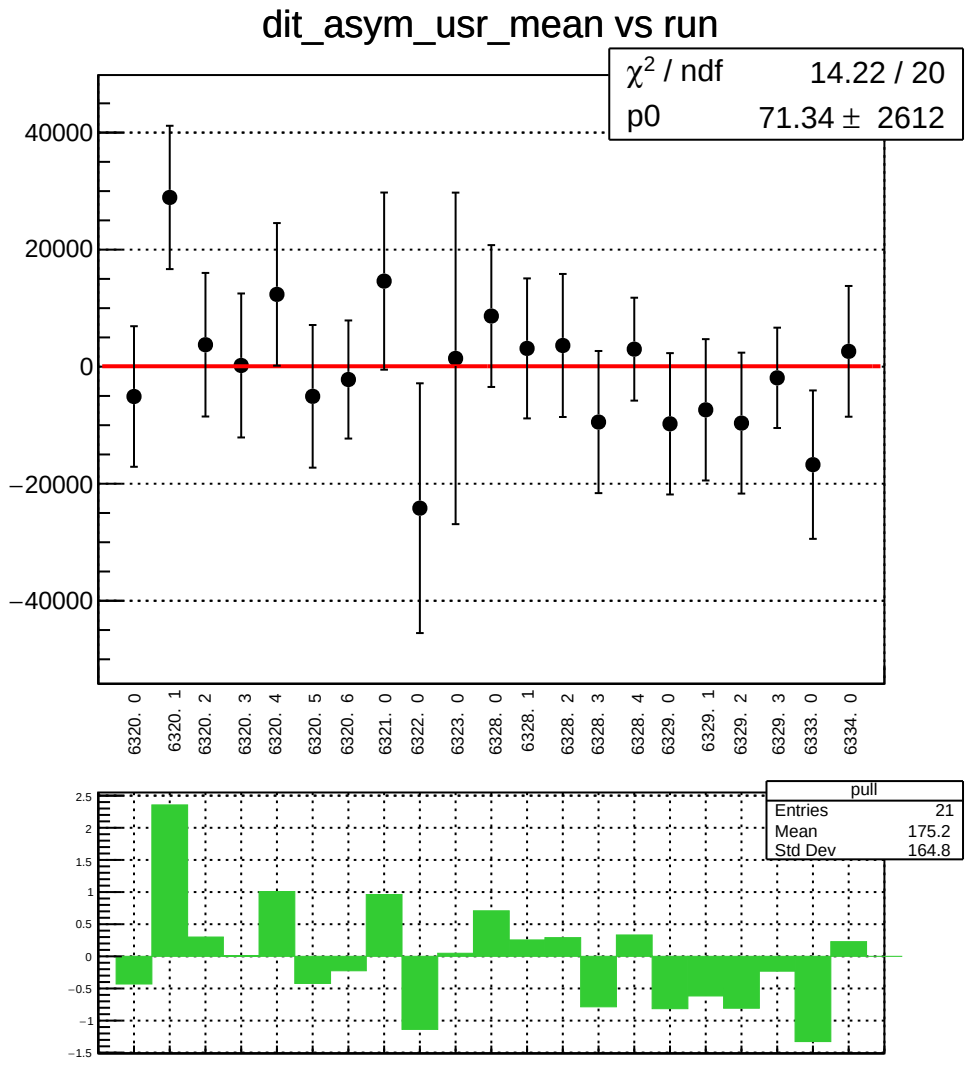

pull1D
Entries 21
Mean 0.01343
Std Dev 0.9916
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

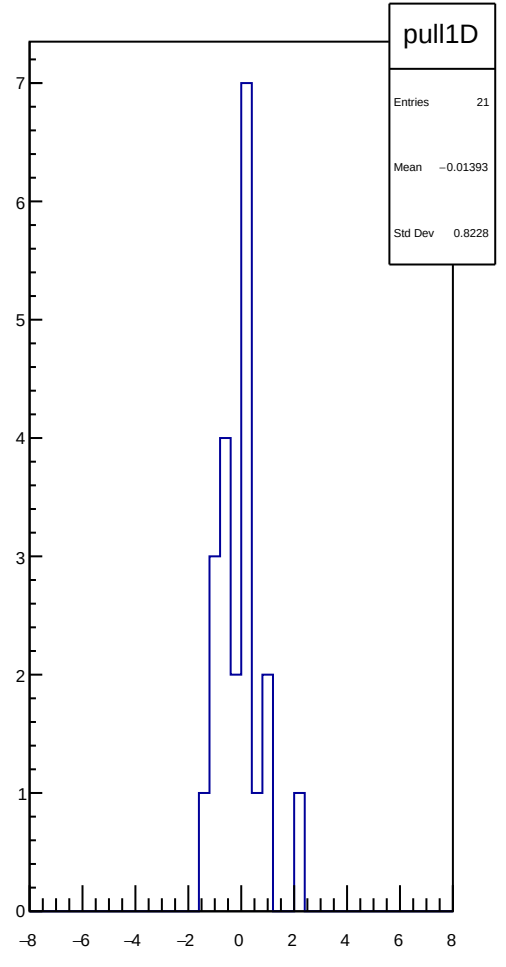

asym_usl_correction_rms vs run
χ² / ndf 3.433e+04 / 20
p0 1045 ± 1.758
1600
1500
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

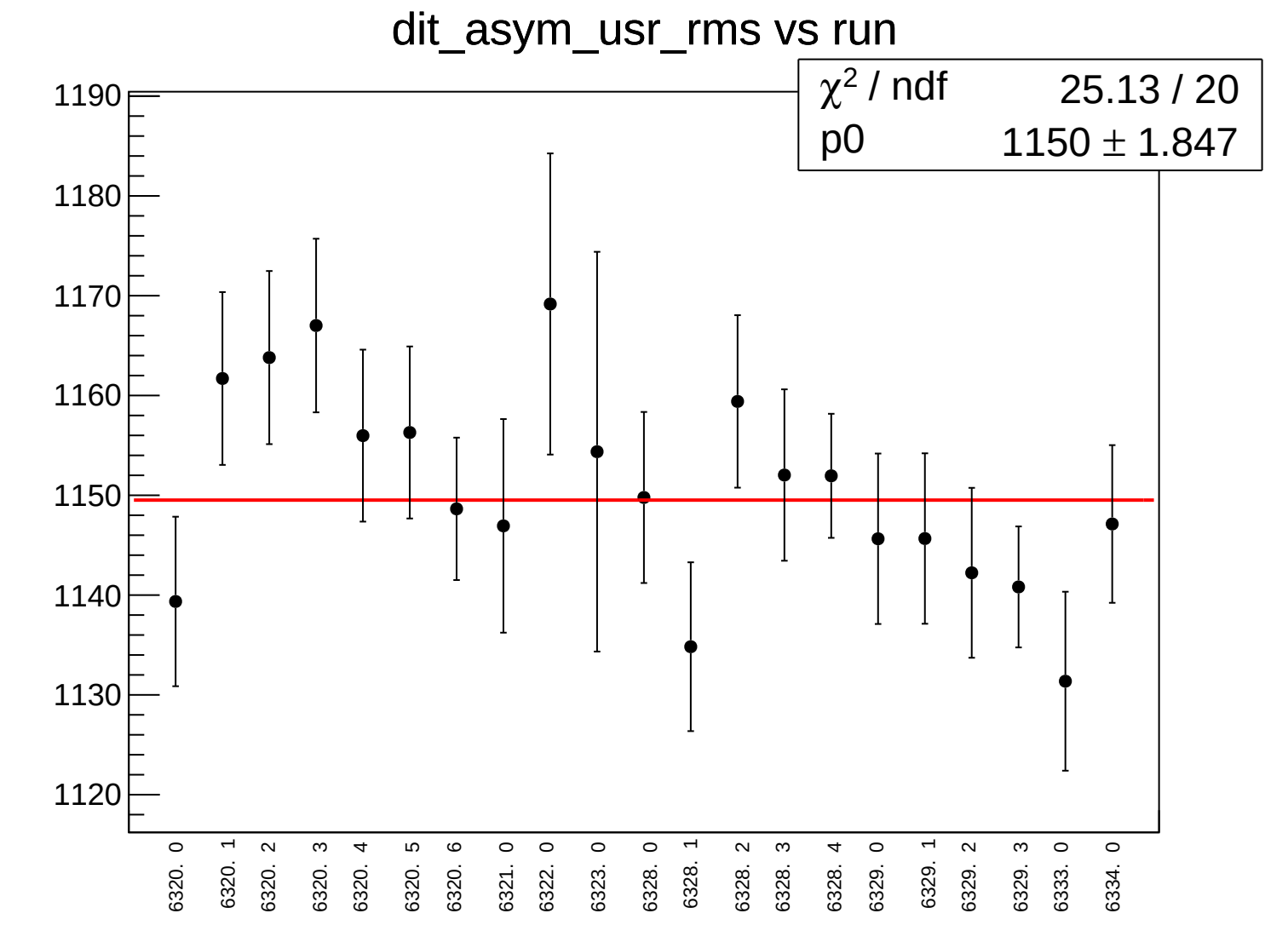

asym_usl_mean vs run
χ² / ndf 29.85 / 20
p0 4618 ± 3732
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 15.51
Std Dev 12.1
2
1
0
−1
−2

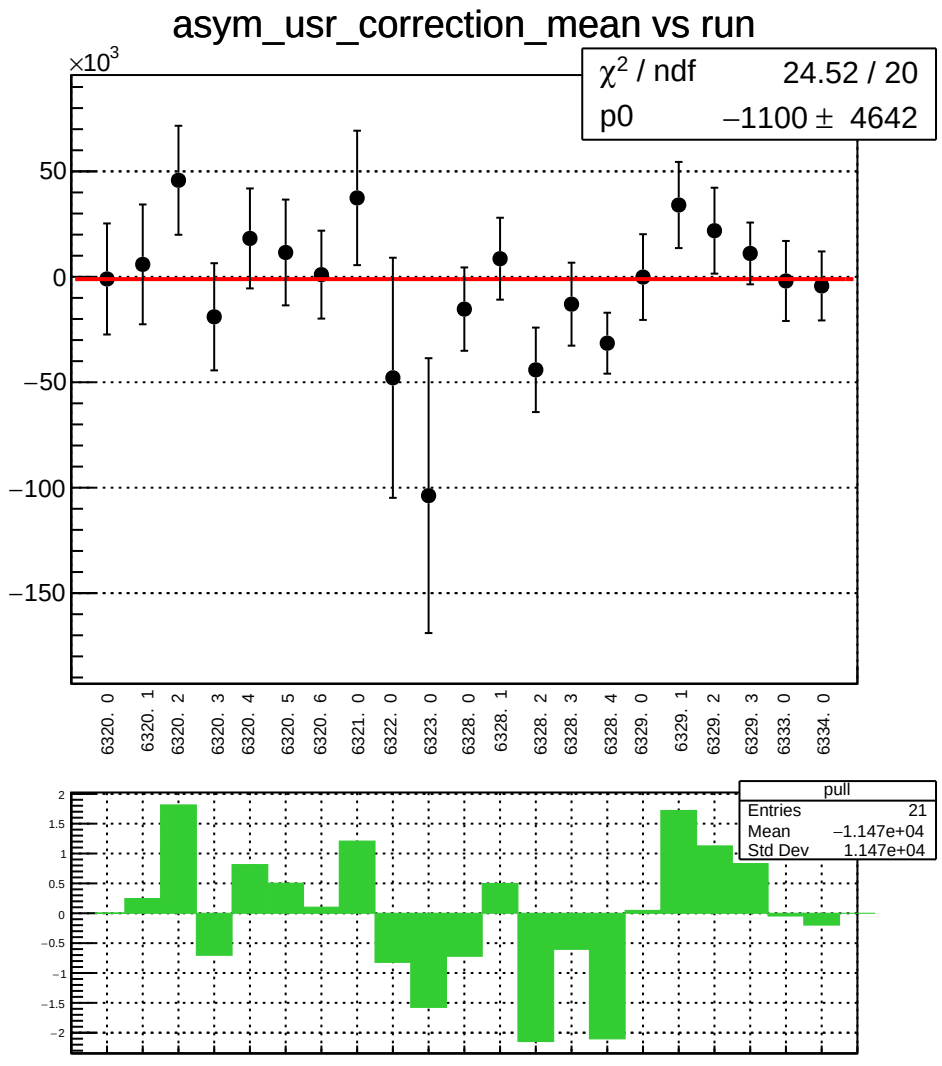

pull1D
Entries 21
Mean −0.04565
Std Dev 1.191
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

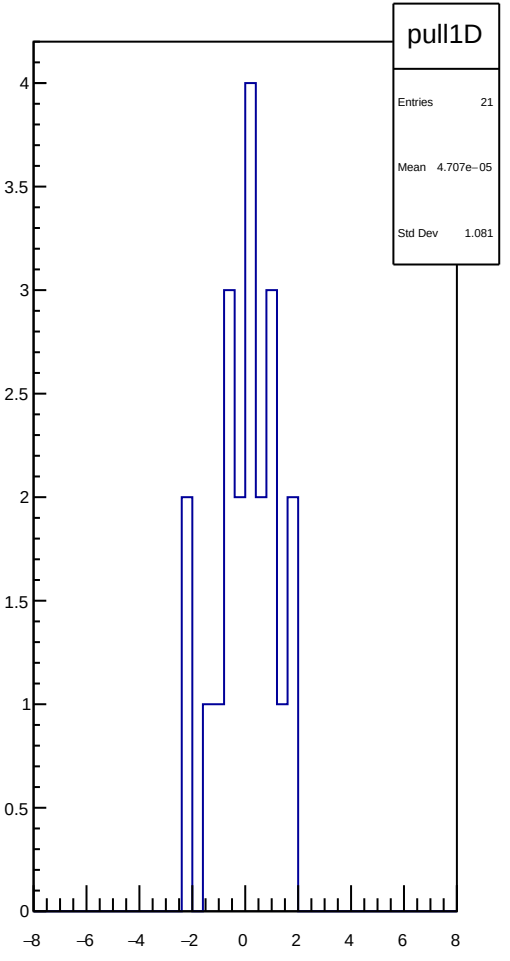

asym_usl_rms vs run
χ² / ndf 7625 / 20
p0 1627 ± 2.639
1900
1800
1700
1600
1500
1400
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

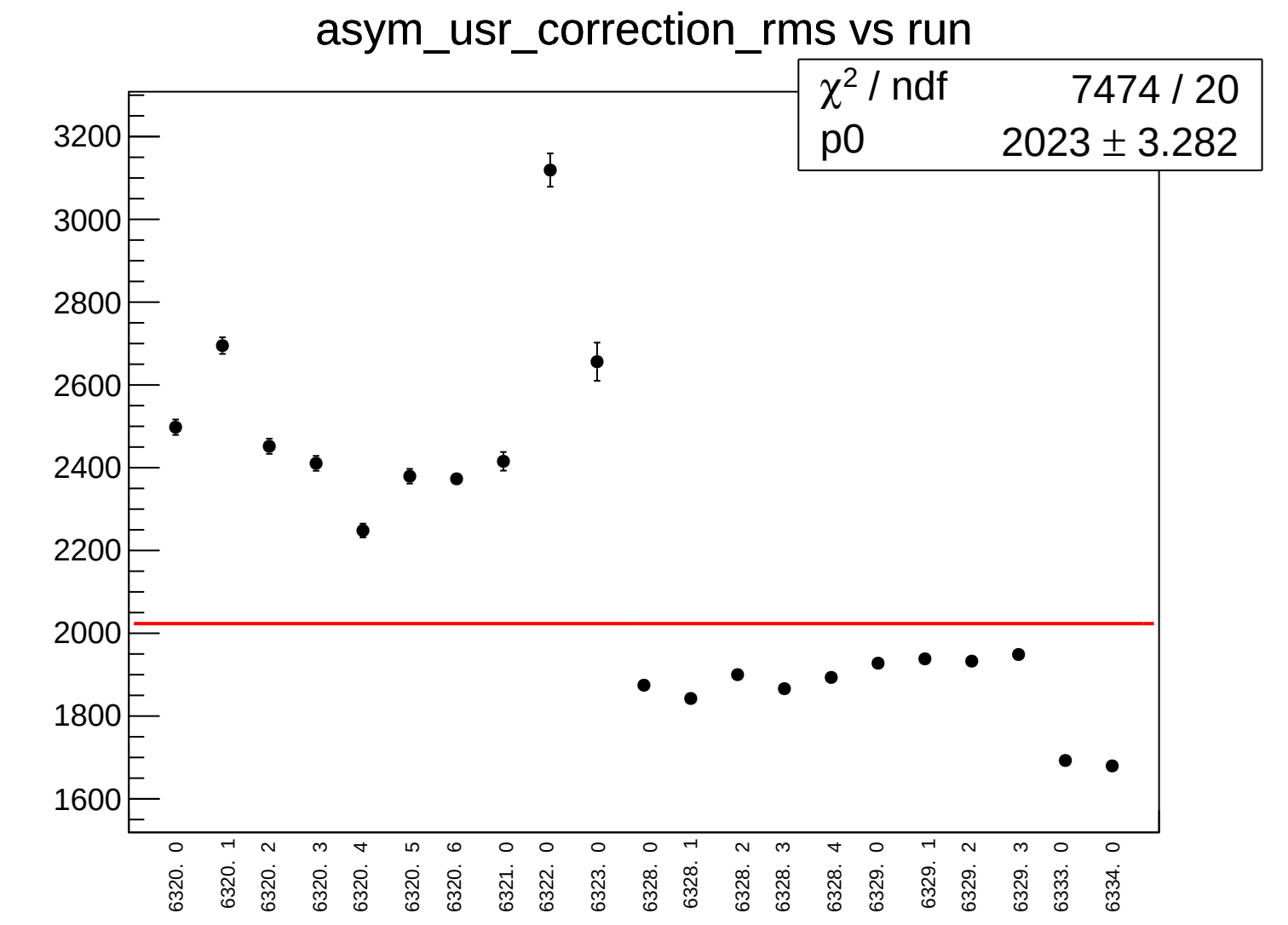

dit_asym_usr_mean vs run
χ² / ndf 14.22 / 20
p0 71.34 ± 2612
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 175.2
Std Dev 164.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

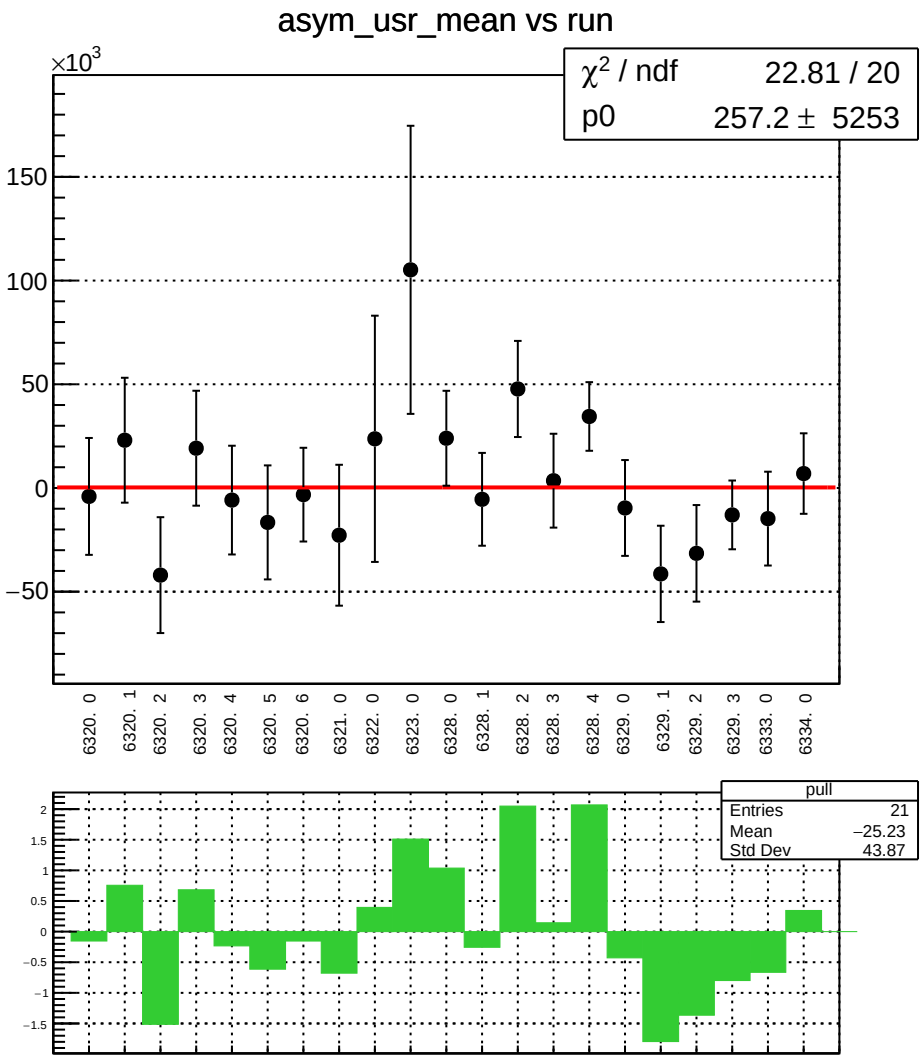

pull1D
Entries 21
Mean −0.01393
Std Dev 0.8228
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

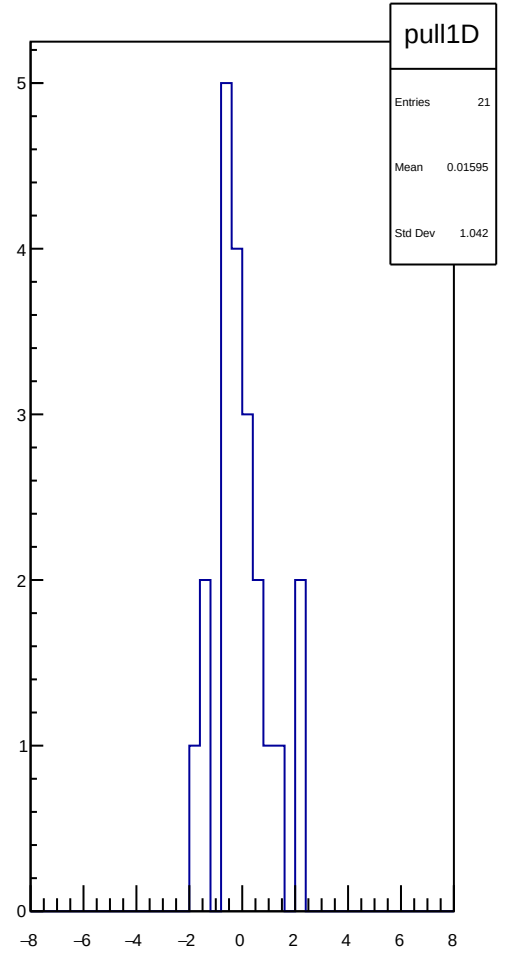

dit_asym_usr_rms vs run
χ² / ndf 25.13 / 20
p0 1150 ± 1.847
1190
1180
1170
1160
1150
1140
1130
1120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

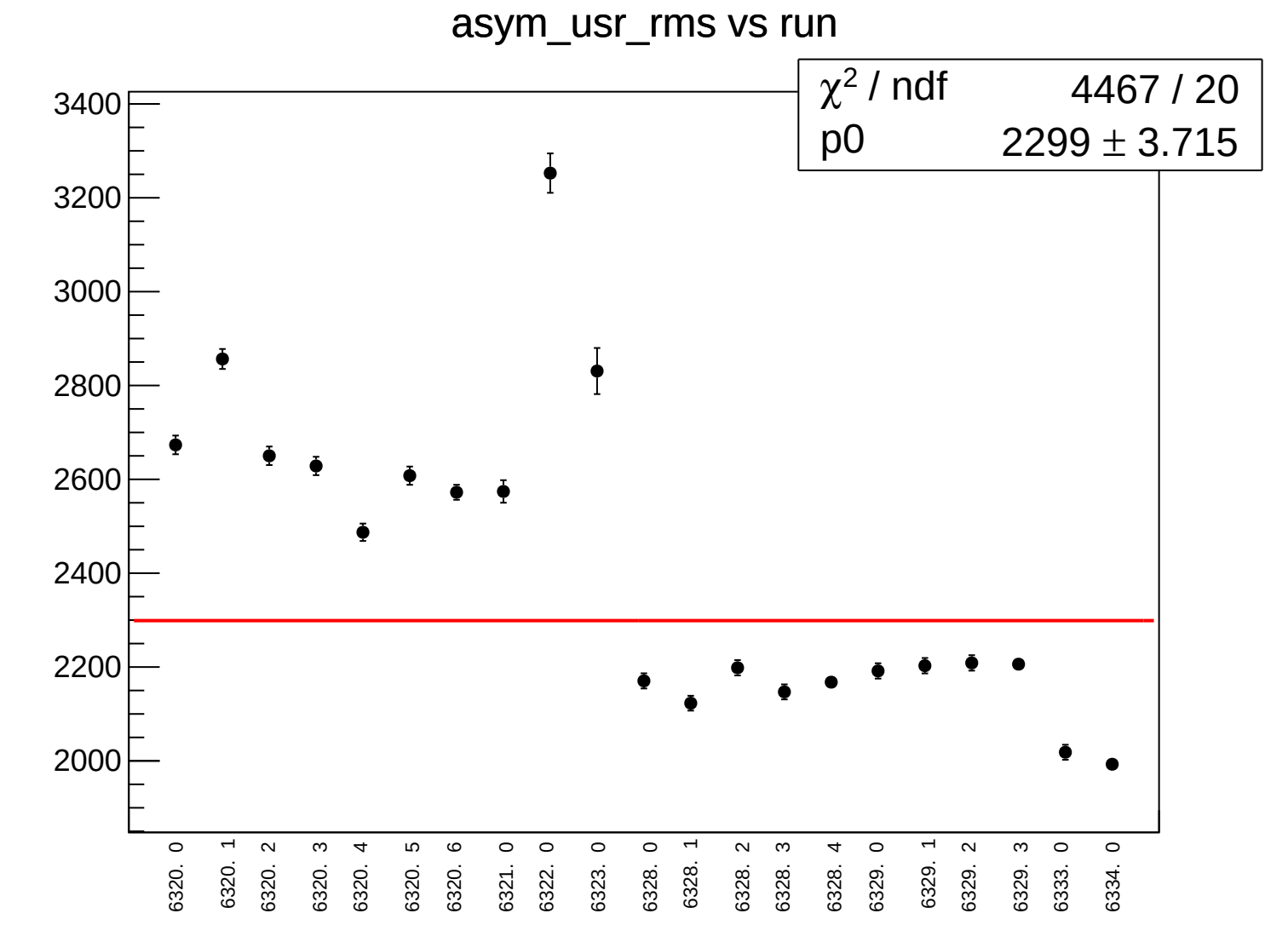

asym_usr_correction_mean vs run
×10^3
χ^2 / ndf 24.52 / 20
p0 −1100 ± 4642
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.147e+04
Std Dev 1.147e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

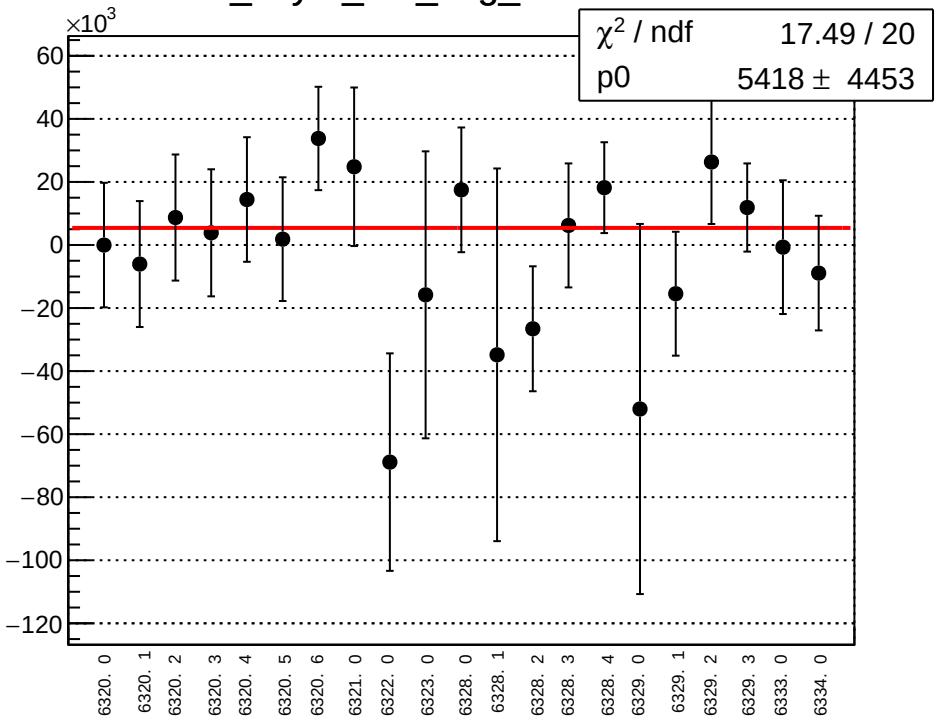

pull1D
Entries 21
Mean 4.707e−05
Std Dev 1.081
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

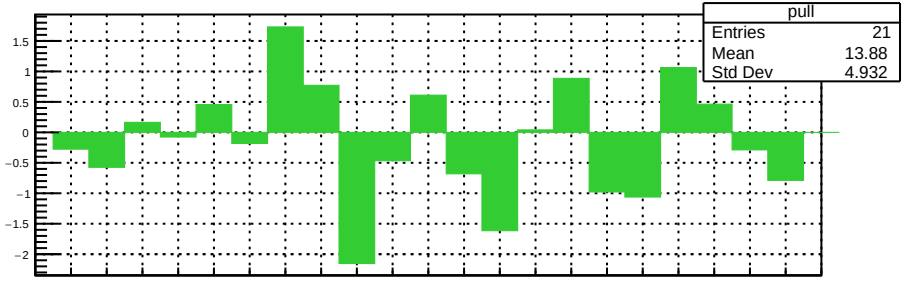

asym_usr_correction_rms vs run
χ² / ndf 7474 / 20
p0 2023 ± 3.282
3200
3000
2800
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

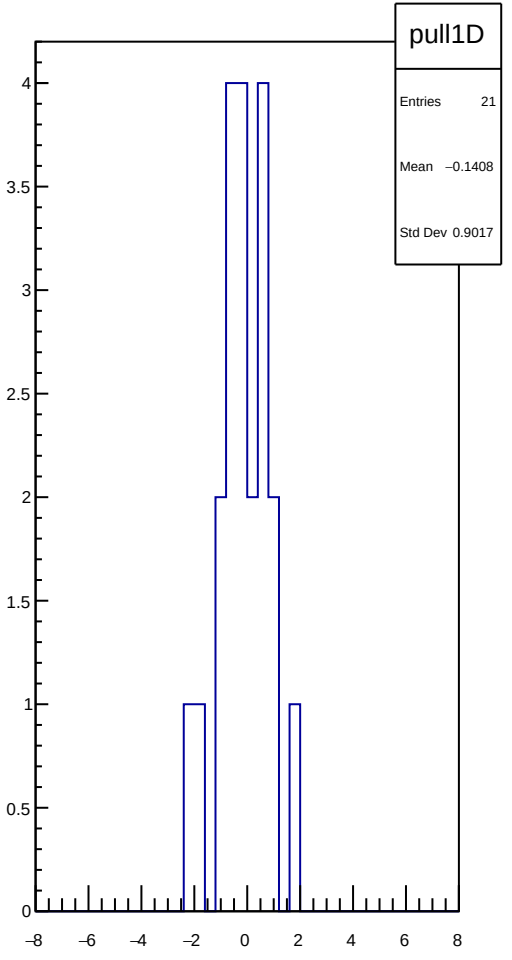

asym_usr_mean vs run
×10^3
χ² / ndf 22.81 / 20
p0 257.2 ± 5253
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.23
Std Dev 43.87
2
1.5
1
0.5
0
−0.5
−1
−1.5

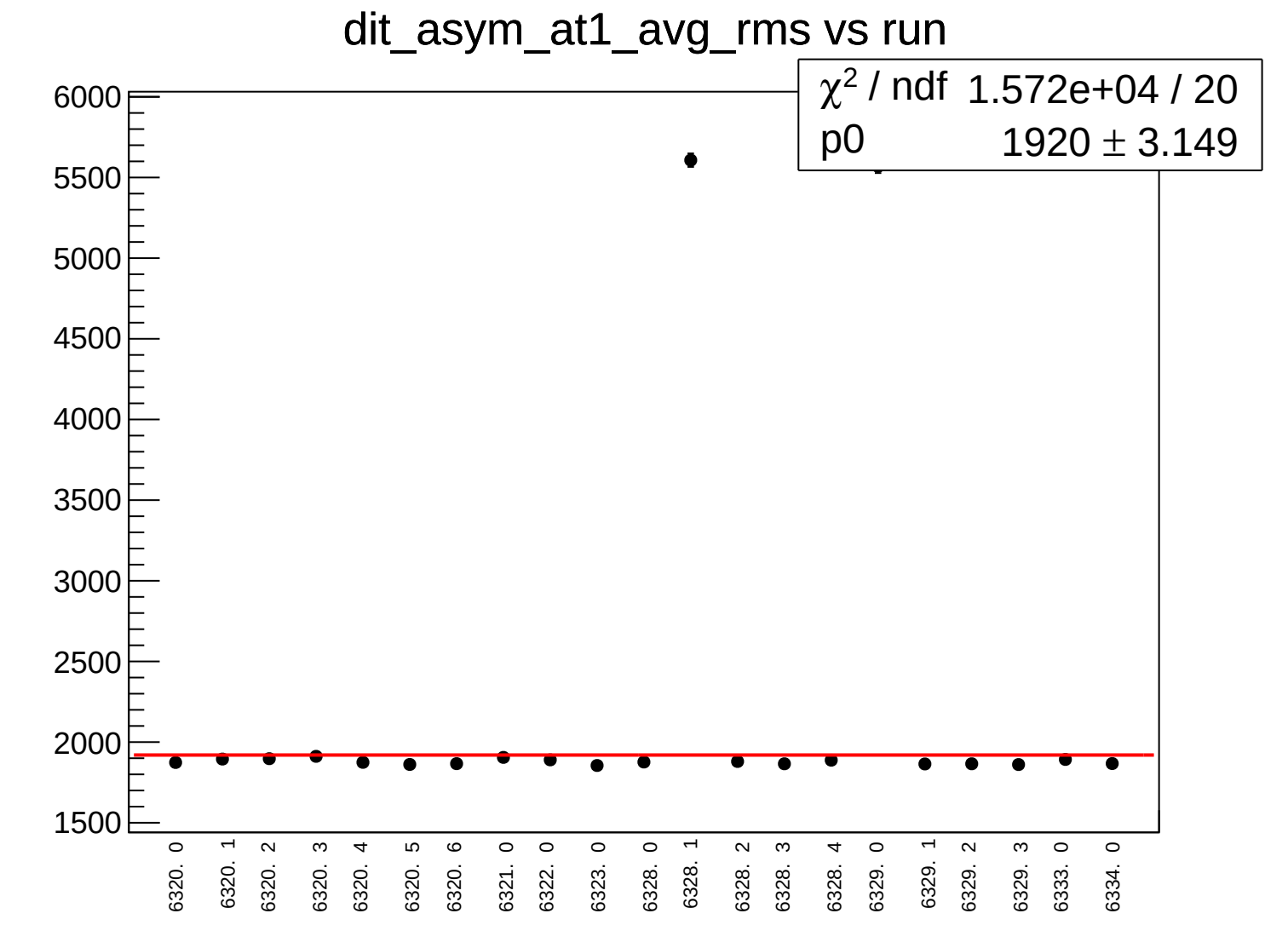

pull1D
Entries 21
Mean 0.01595
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

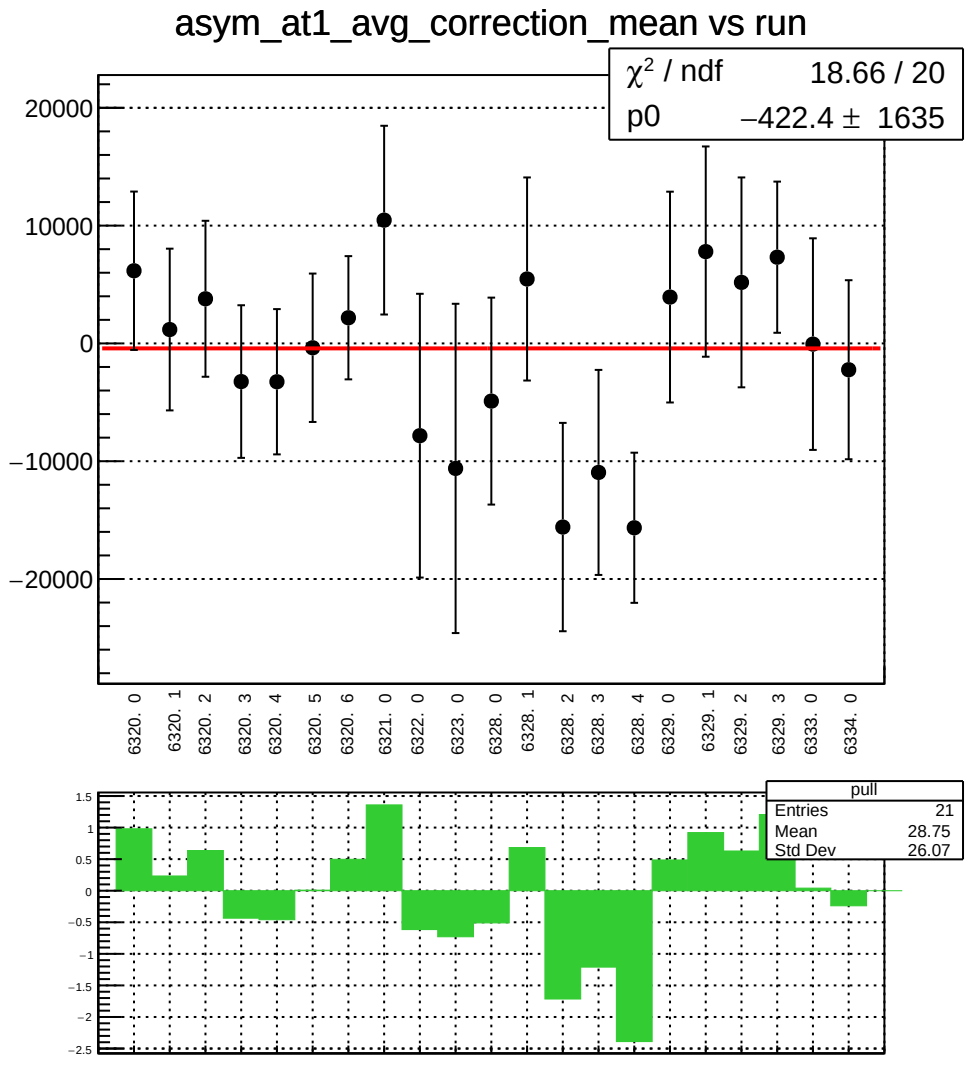

asym_usr_rms vs run
χ² / ndf 4467 / 20
p0 2299 ± 3.715
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

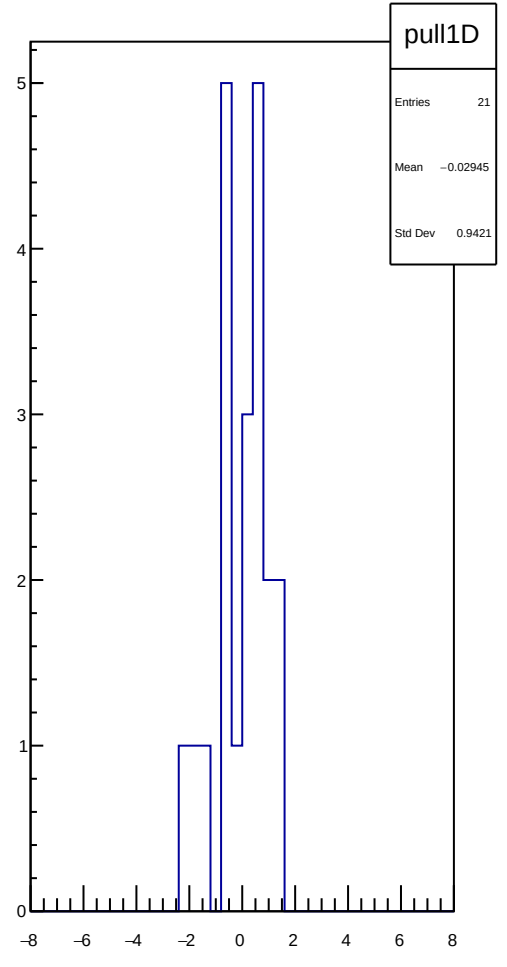

dit_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 17.49 / 20
p0 5418 ± 4453
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

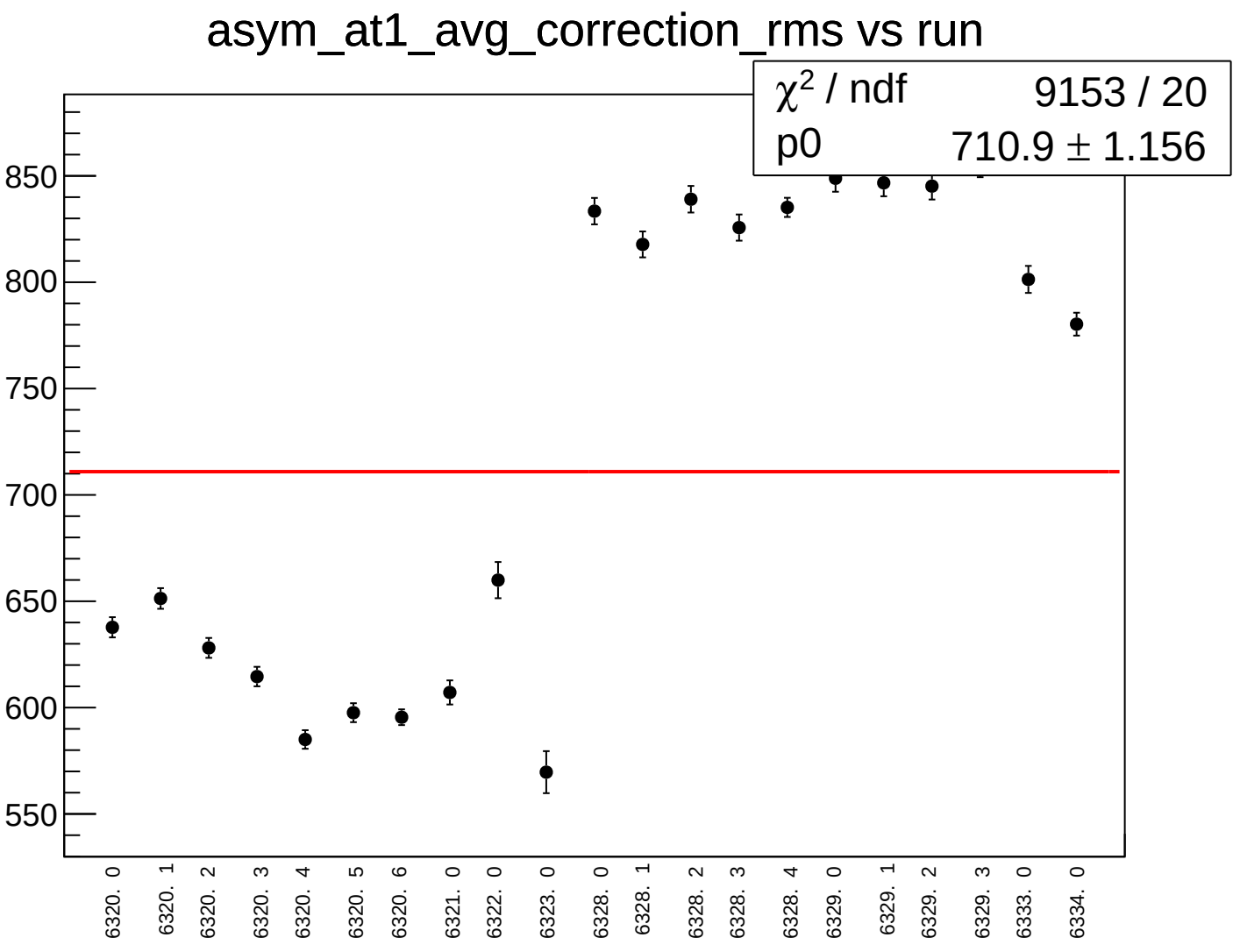

pull
Entries 21
Mean 13.88
Std Dev 4.932
1.5
1
0.5
0
−0.5
−1
−1.5
−2

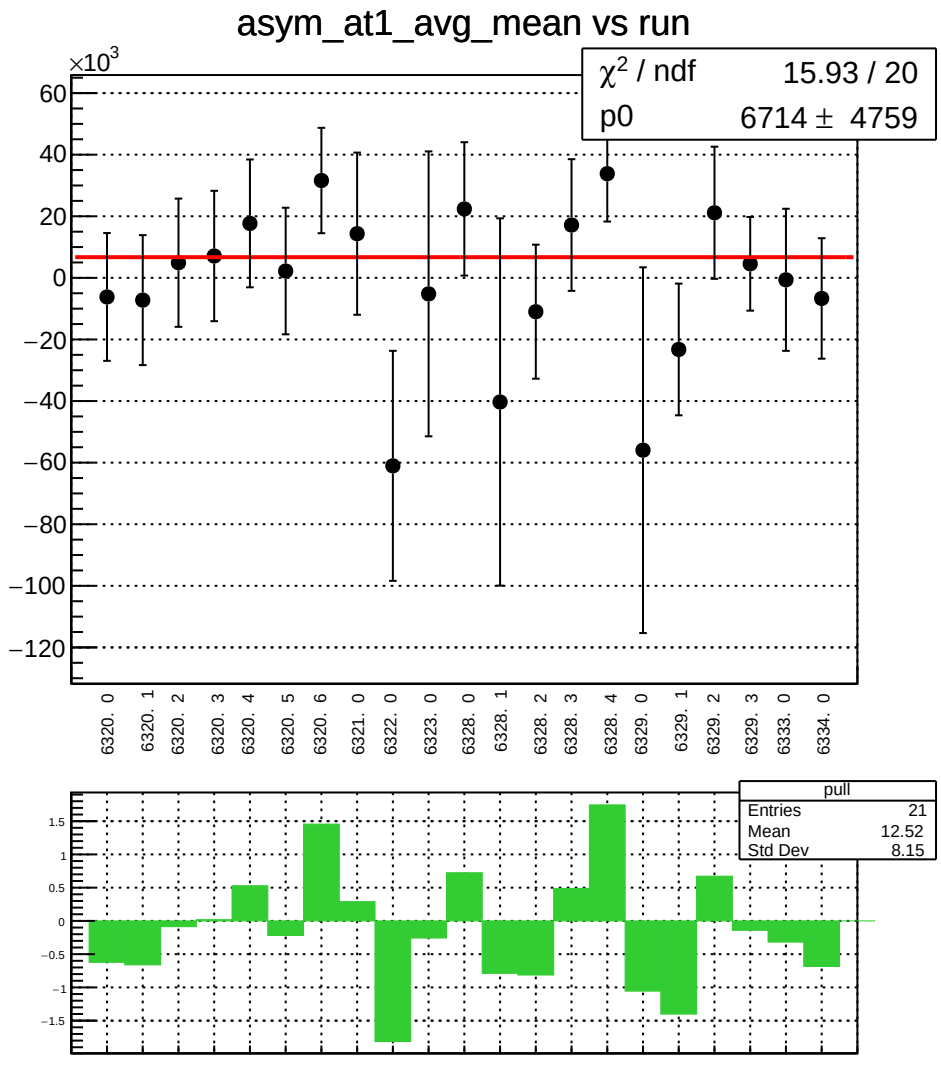

pull1D
Entries 21
Mean −0.1408
Std Dev 0.9017
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

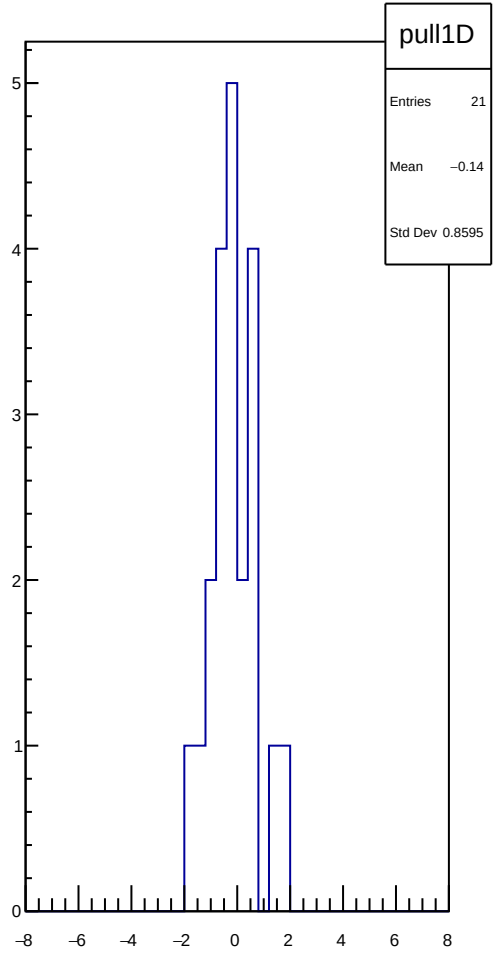

dit_asym_at1_avg_rms vs run
χ² / ndf 1.572e+04 / 20
p0 1920 ± 3.149
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

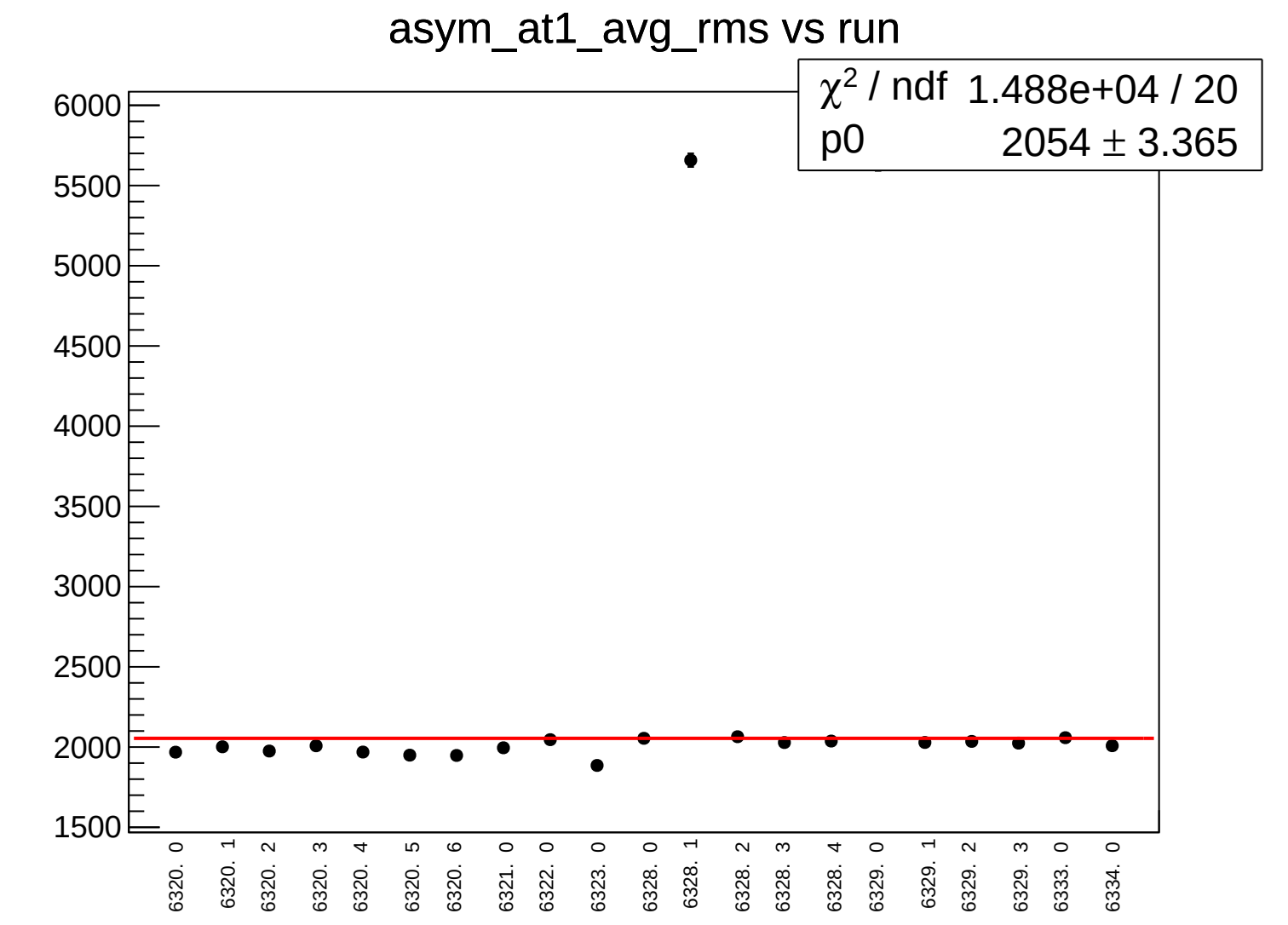

asym_at1_avg_correction_mean vs run
χ² / ndf 18.66 / 20
p0 −422.4 ± 1635
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.75
Std Dev 26.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

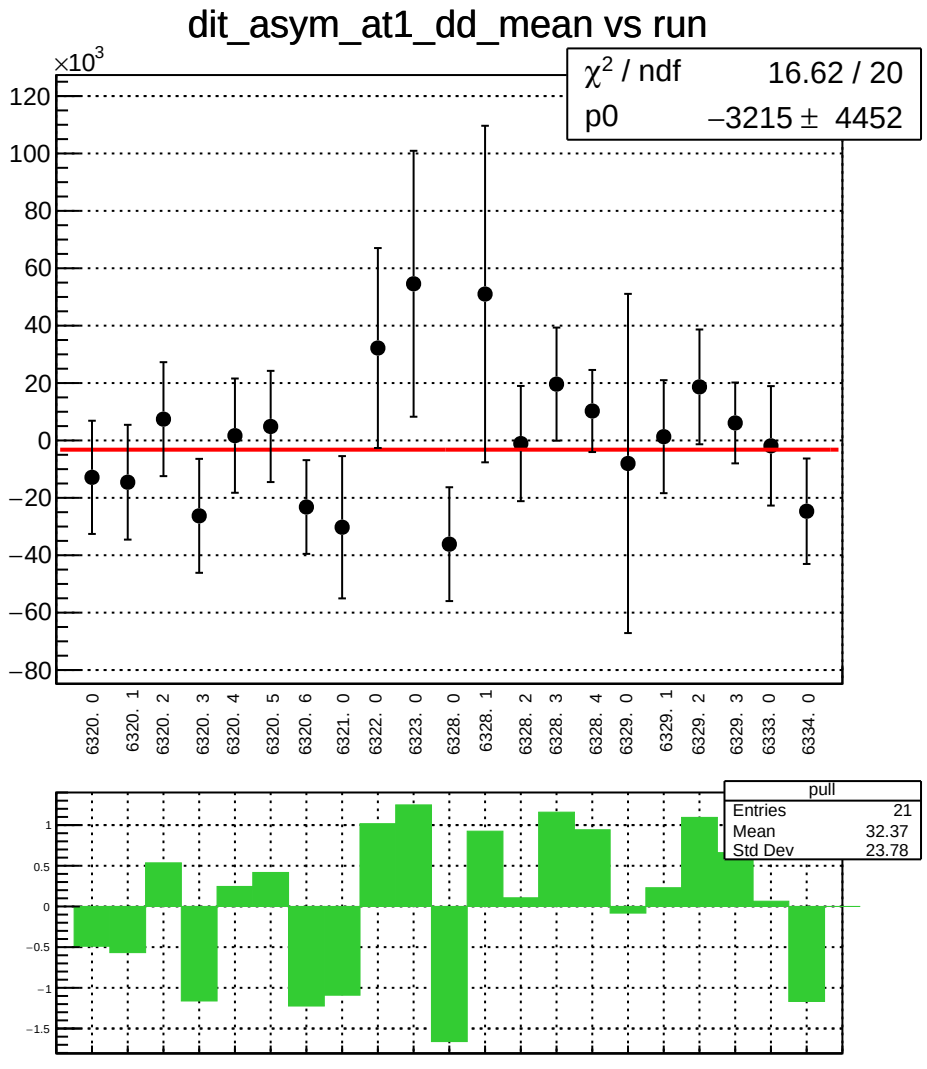

pull1D
Entries 21
Mean −0.02945
Std Dev 0.9421
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

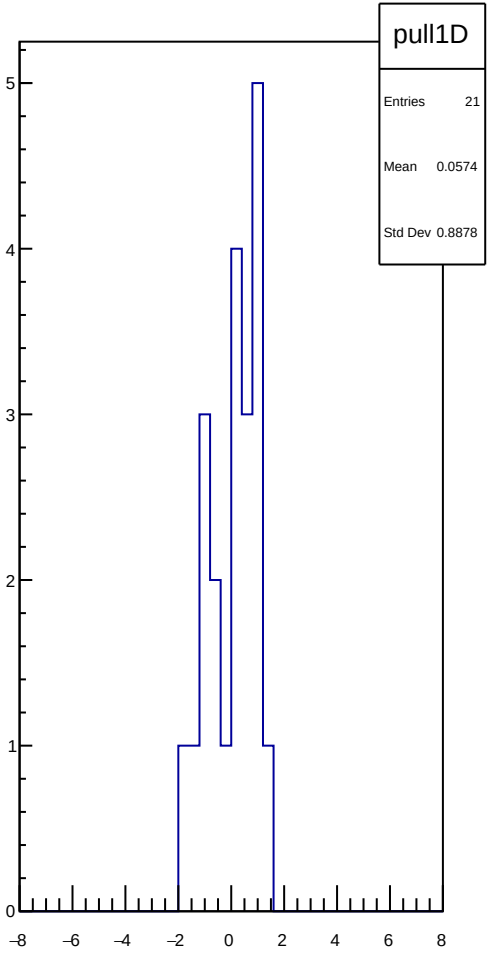

asym_at1_avg_correction_rms vs run
χ² / ndf 9153 / 20
p0 710.9 ± 1.156
850
800
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

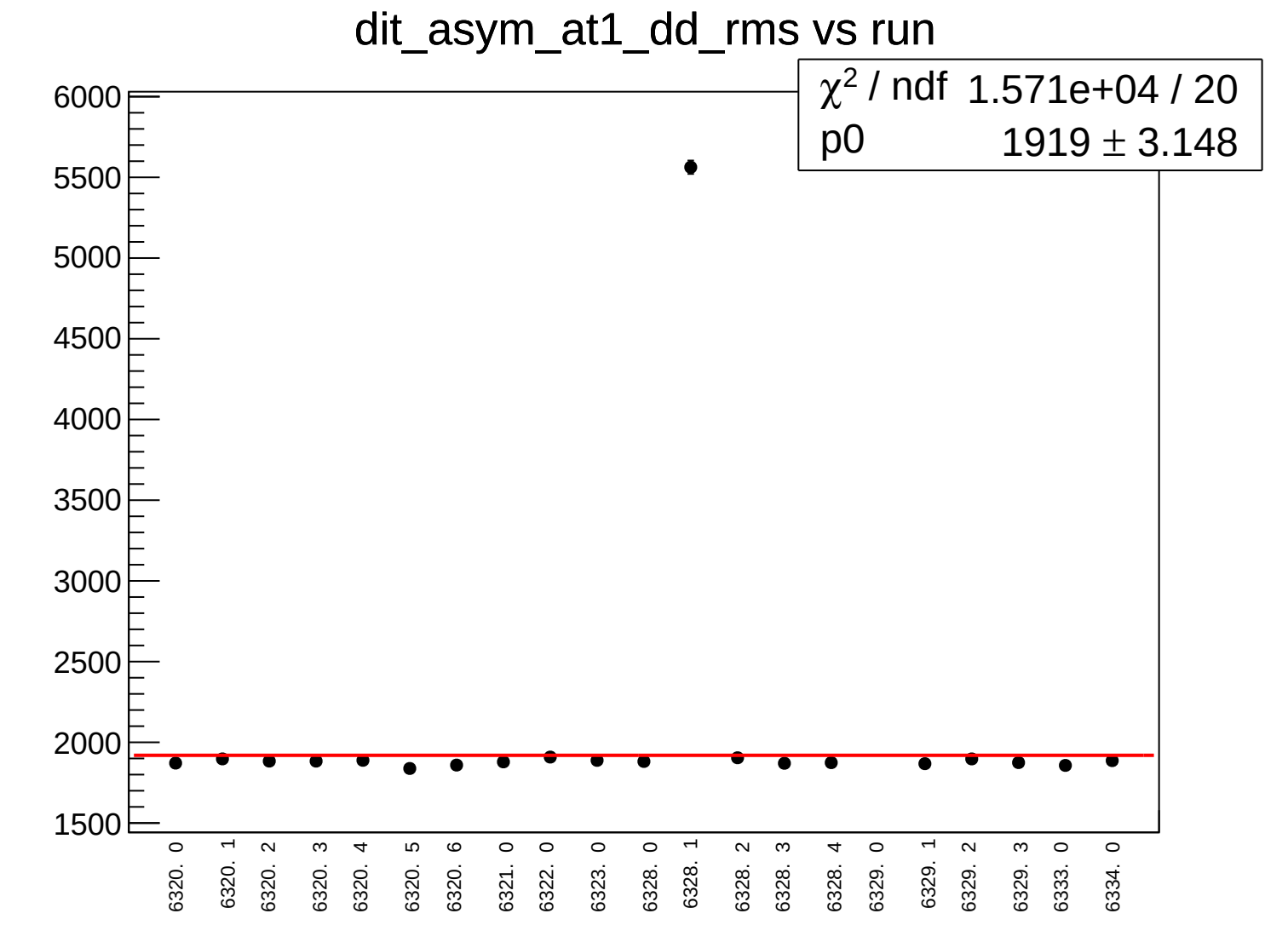

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 15.93 / 20
p0 6714 ± 4759
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 12.52
Std Dev 8.15
1.5
1
0.5
0
−0.5
−1
−1.5

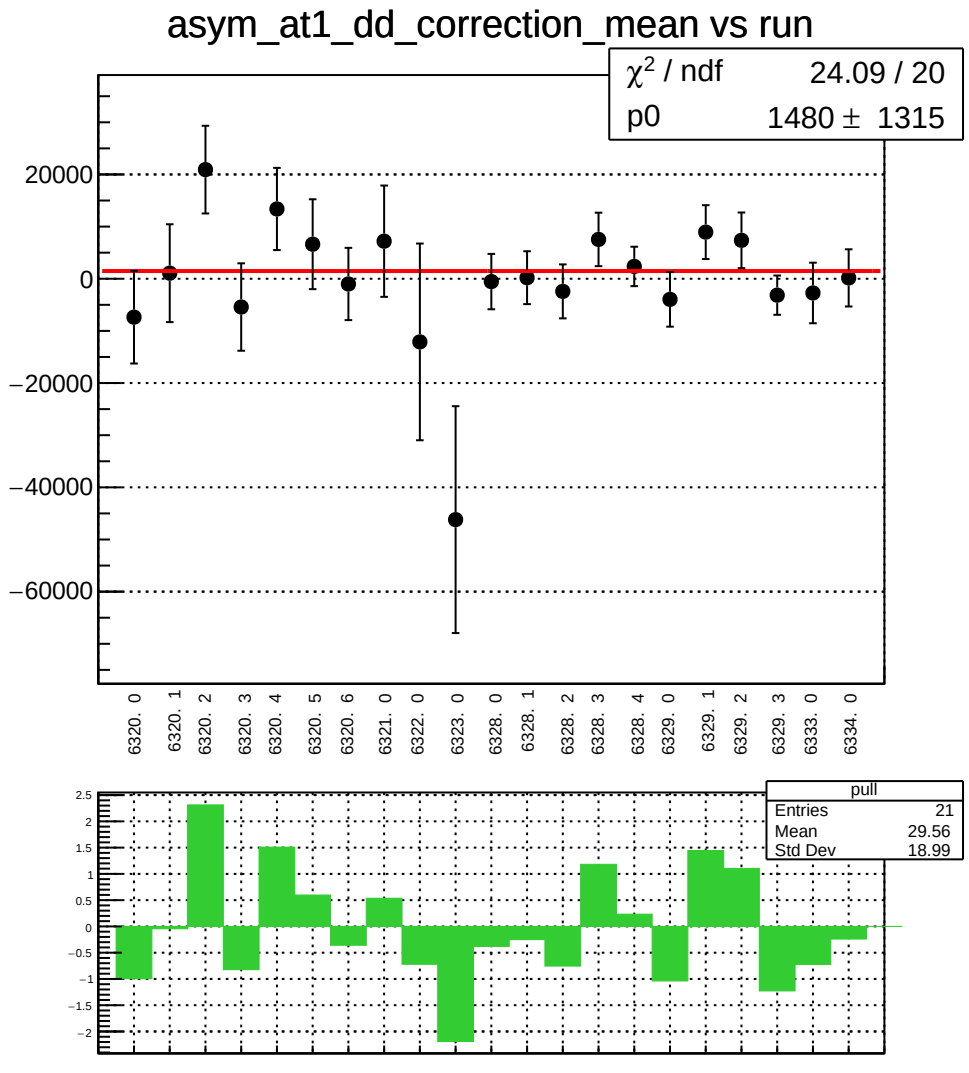

pull1D
Entries 21
Mean −0.14
Std Dev 0.8595
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

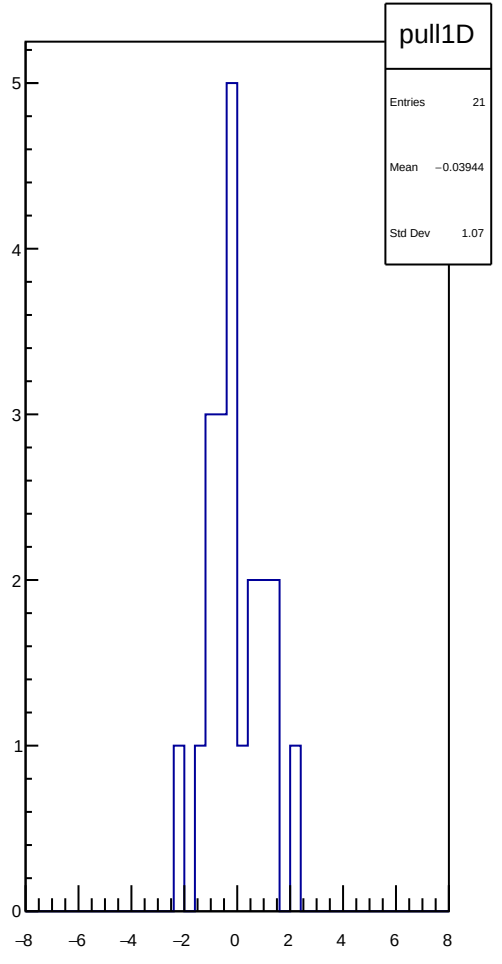

asym_at1_avg_rms vs run
χ² / ndf 1.488e+04 / 20
p0 2054 ± 3.365
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

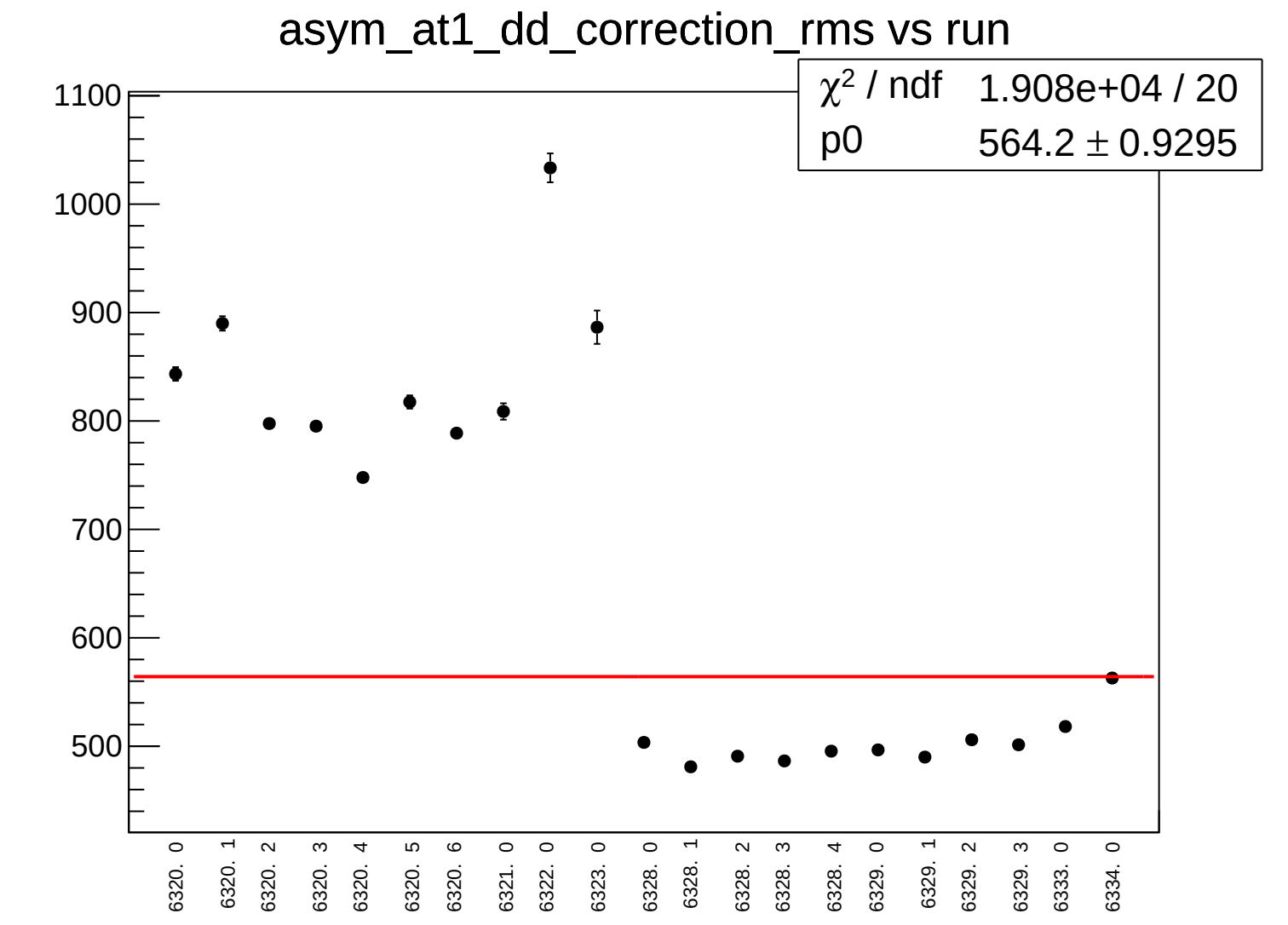

dit_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 16.62 / 20
p0 −3215 ± 4452
120
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.37
Std Dev 23.78
1
0.5
0
−0.5
−1
−1.5

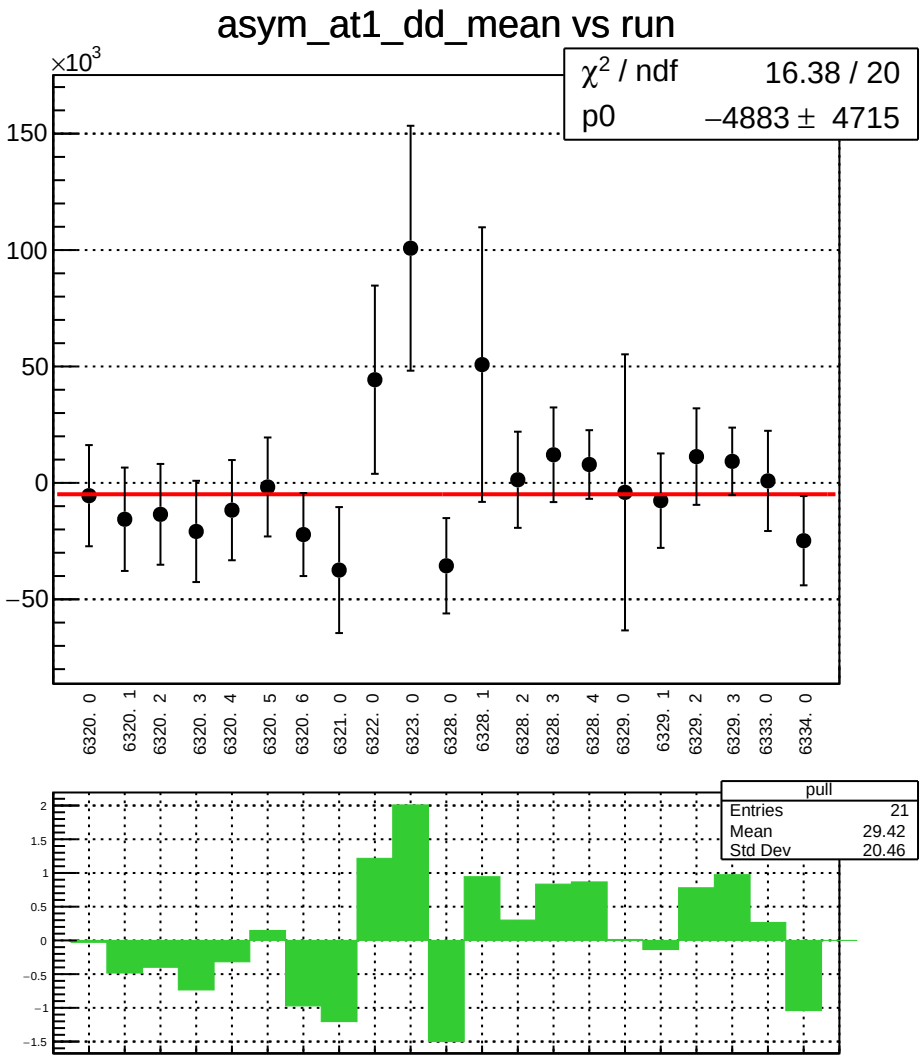

pull1D
Entries 21
Mean 0.0574
Std Dev 0.8878
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

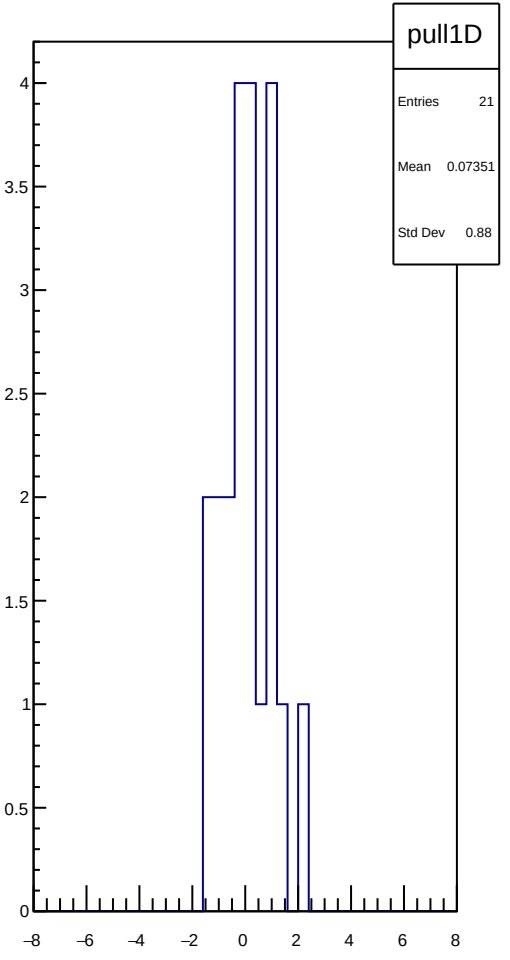

dit_asym_at1_dd_rms vs run
χ² / ndf 1.571e+04 / 20
p0 1919 ± 3.148
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

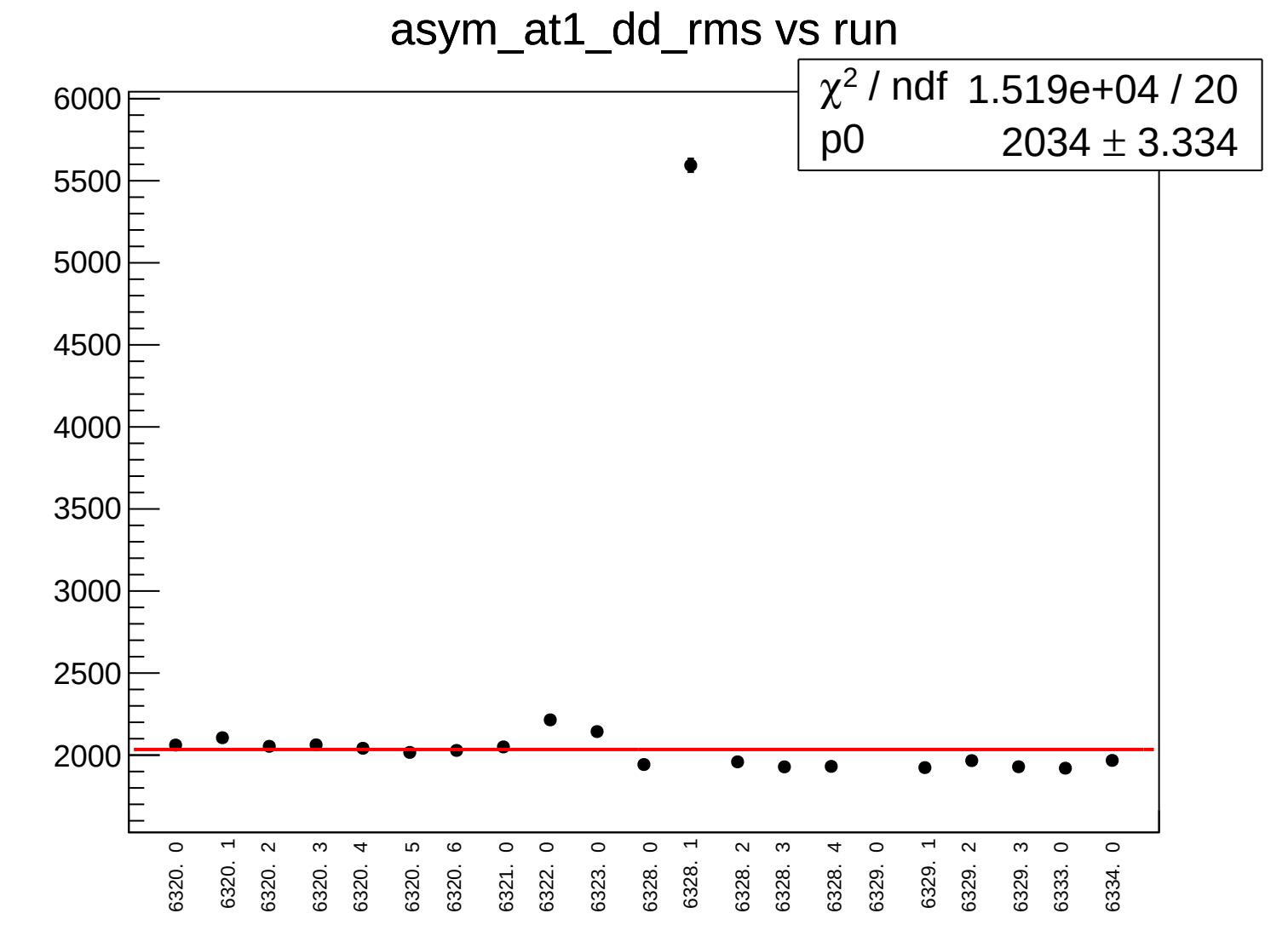

asym_at1_dd_correction_mean vs run
χ² / ndf 24.09 / 20
p0 1480 ± 1315
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.56
Std Dev 18.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

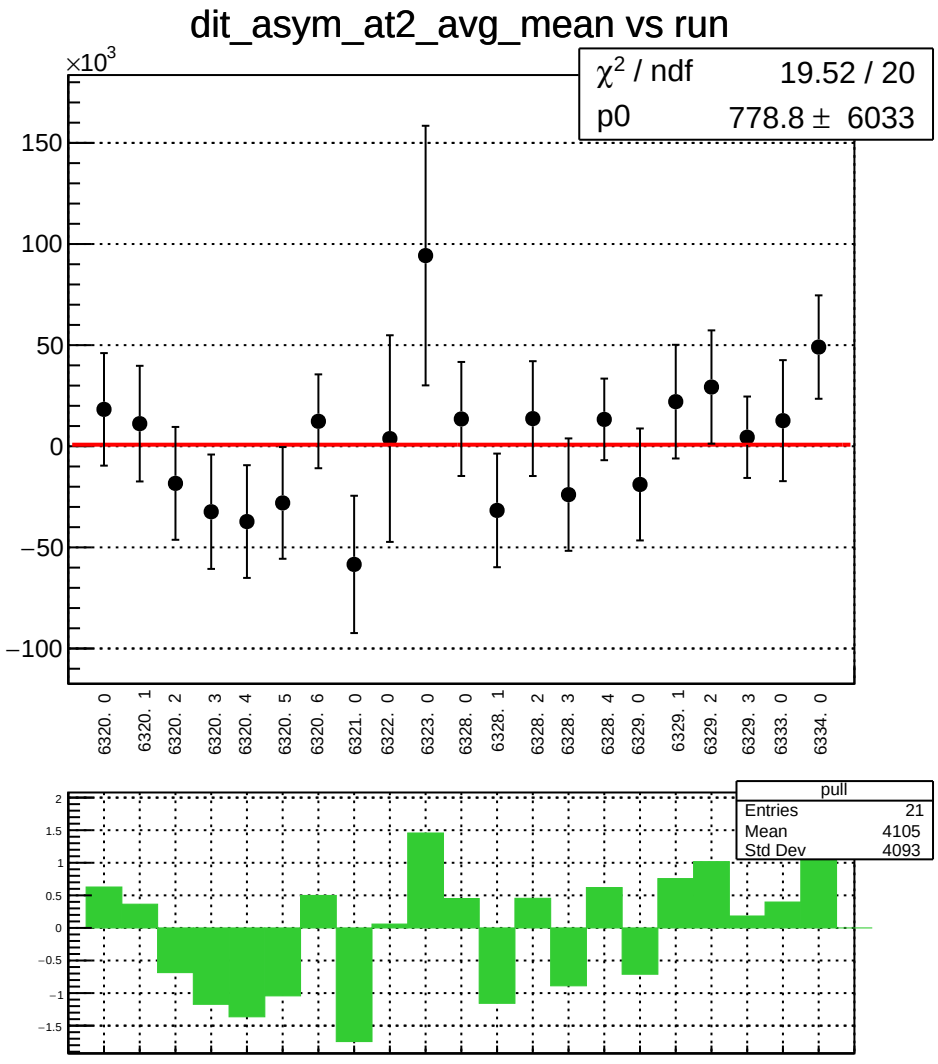

pull1D
Entries 21
Mean −0.03944
Std Dev 1.07
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

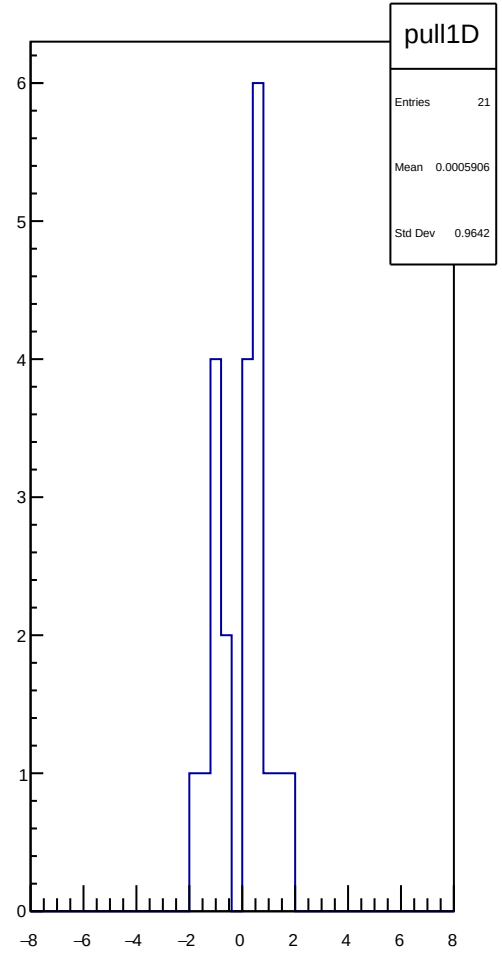

asym_at1_dd_correction_rms vs run
χ² / ndf 1.908e+04 / 20
p0 564.2 ± 0.9295
1100
1000
900
800
700
600
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

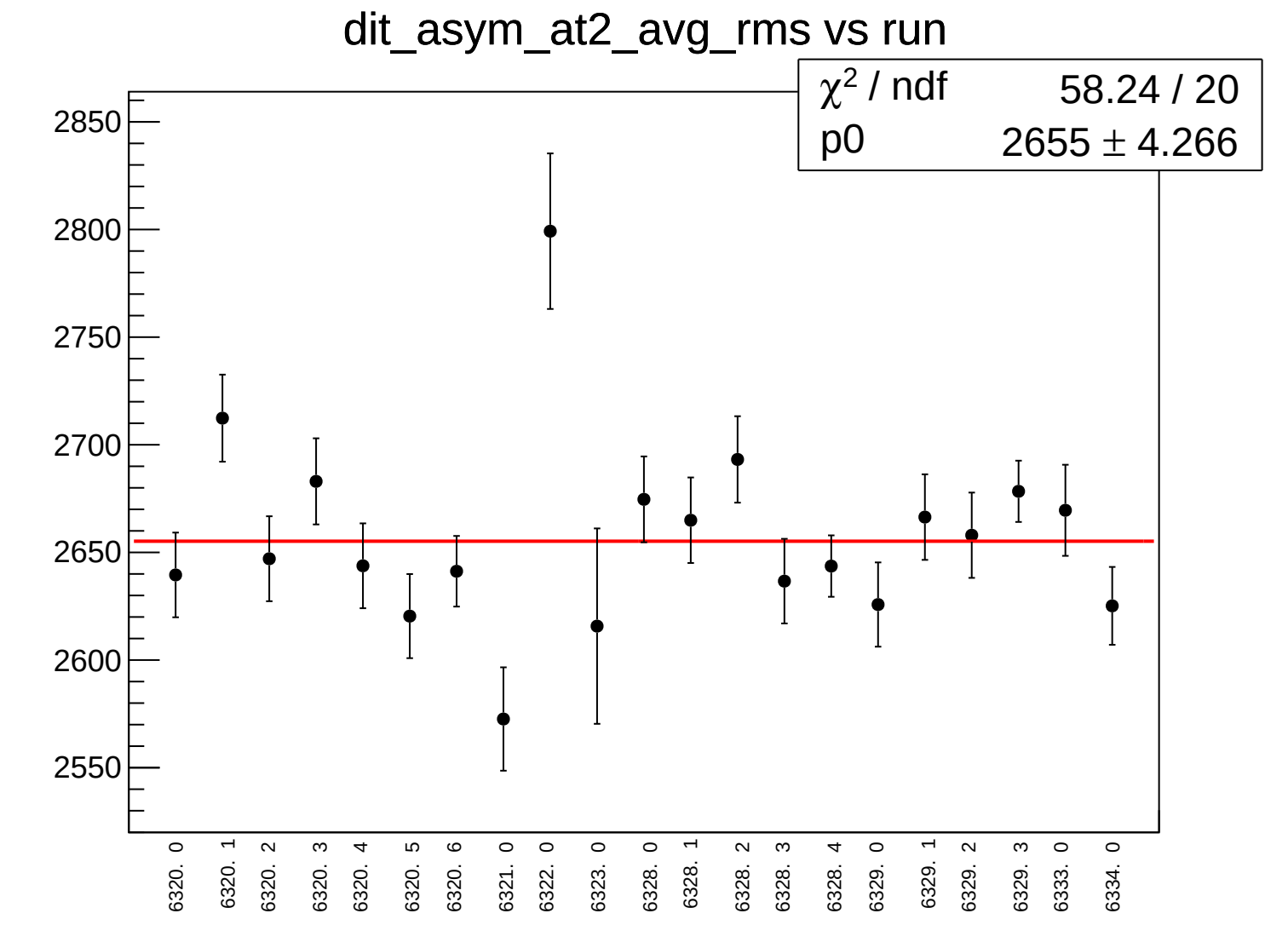

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 16.38 / 20
p0 −4883 ± 4715
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.42
Std Dev 20.46
2
1.5
1
0.5
0
−0.5
−1
−1.5

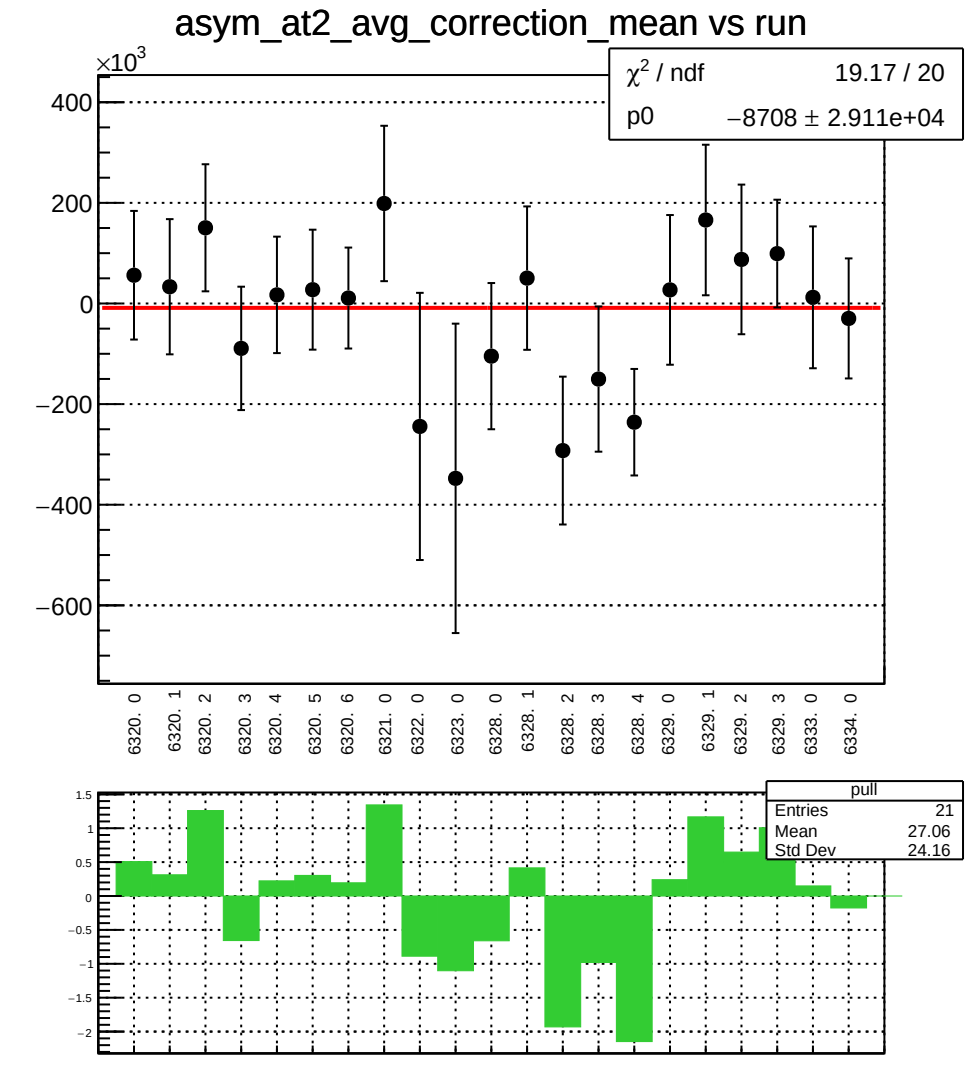

pull1D
Entries 21
Mean 0.07351
Std Dev 0.88
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

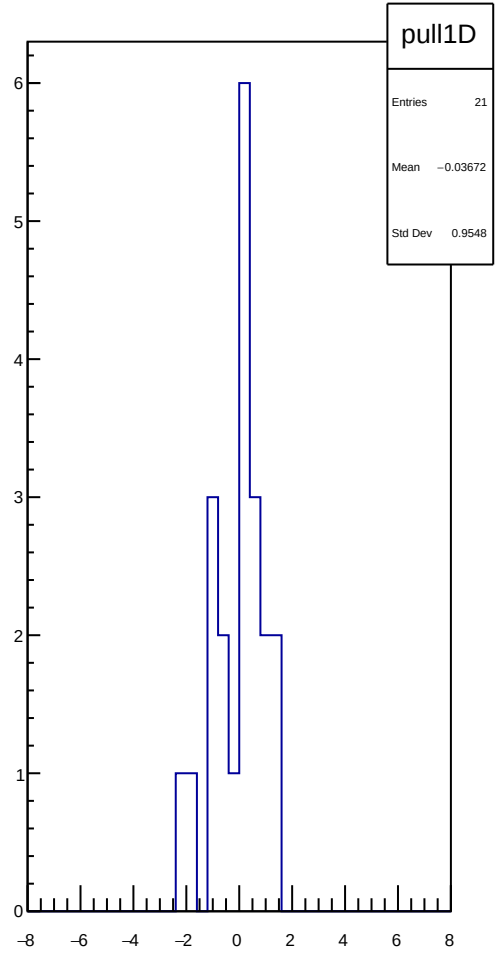

asym_at1_dd_rms vs run
χ² / ndf 1.519e+04 / 20
p0 2034 ± 3.334
6000
5500
5000
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

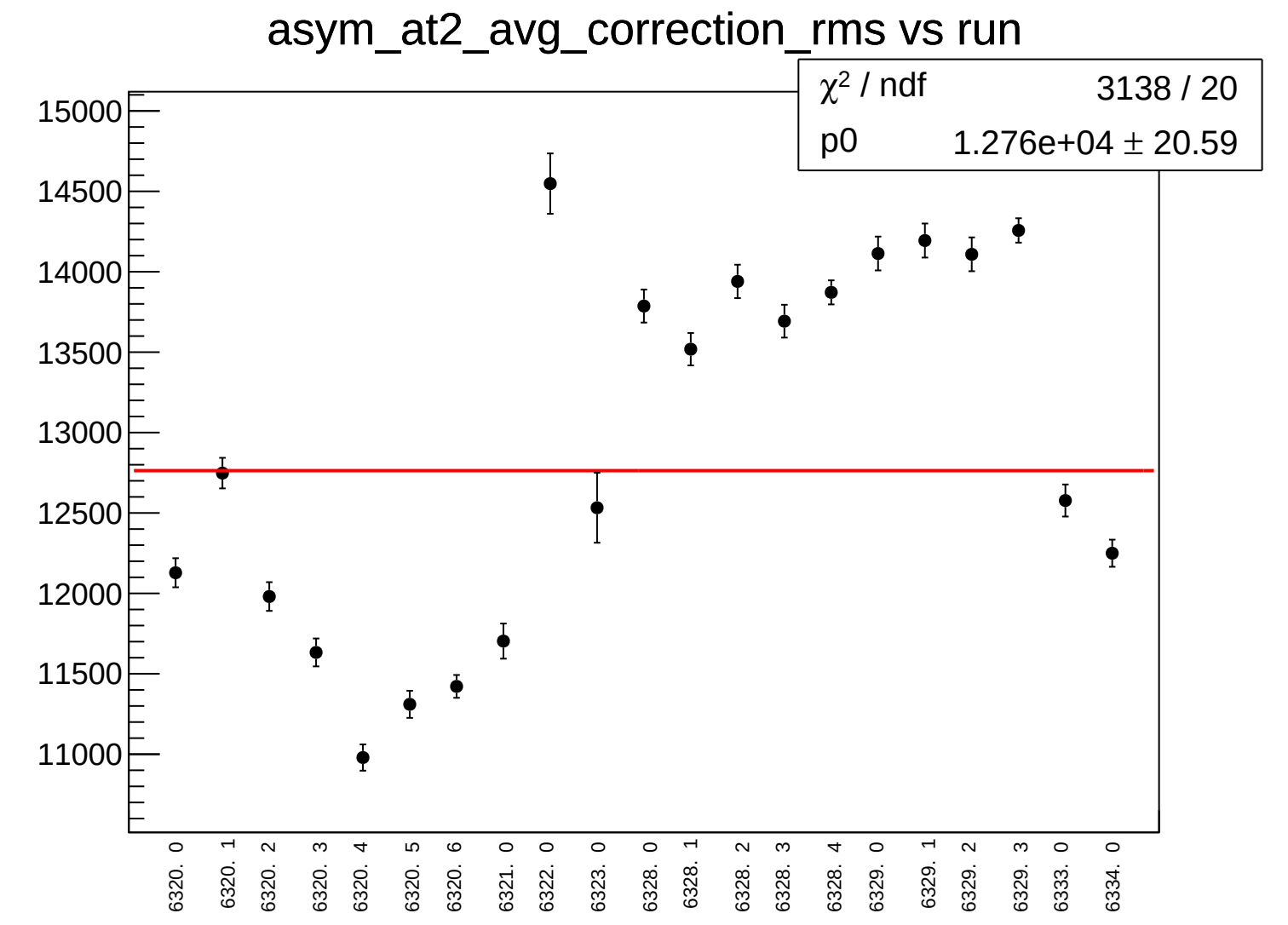

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 19.52 / 20
p0 778.8 ± 6033
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 4105
Std Dev 4093
2
1.5
1
0.5
0
−0.5
−1
−1.5

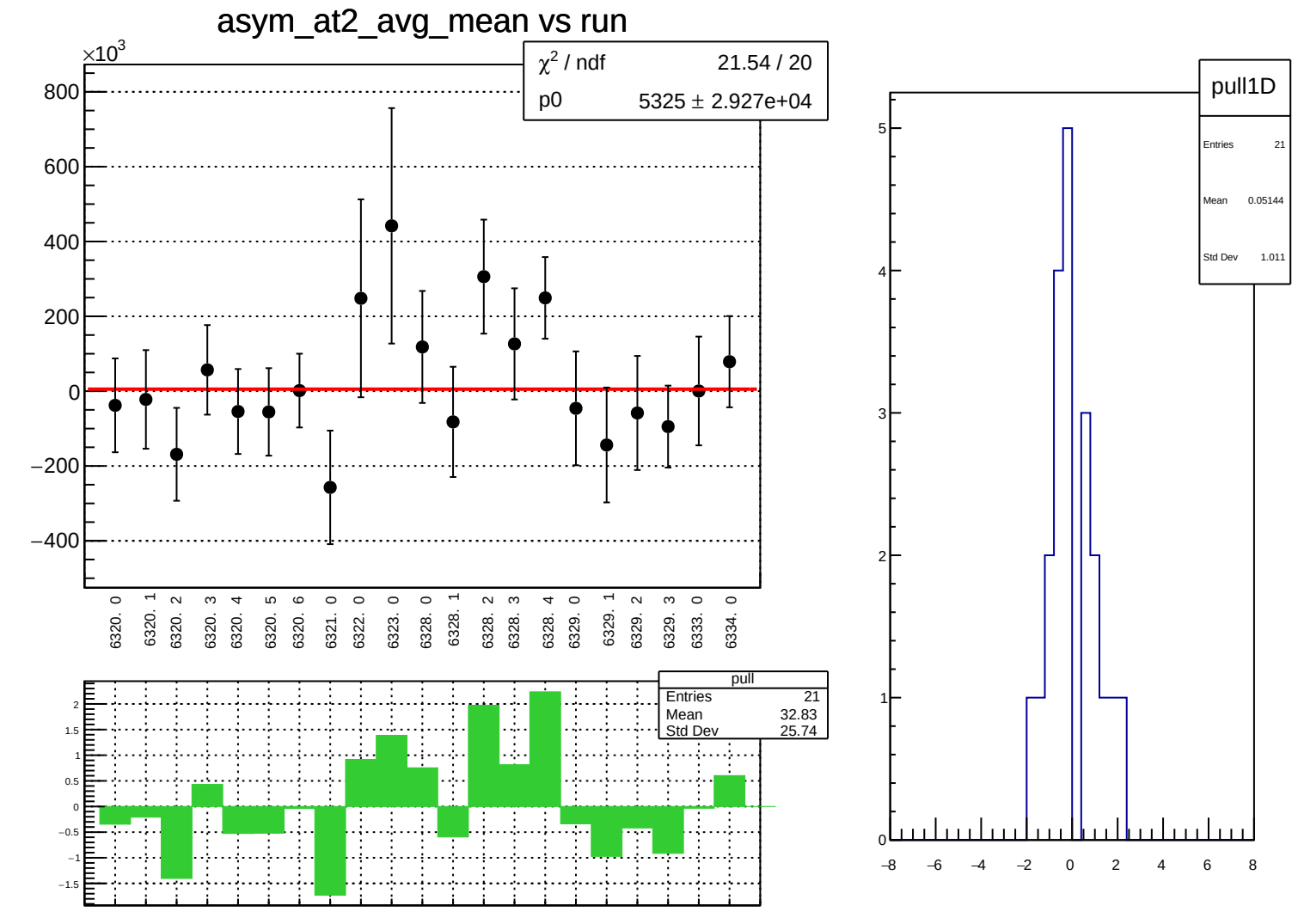

pull1D
Entries 21
Mean 0.0005906
Std Dev 0.9642
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

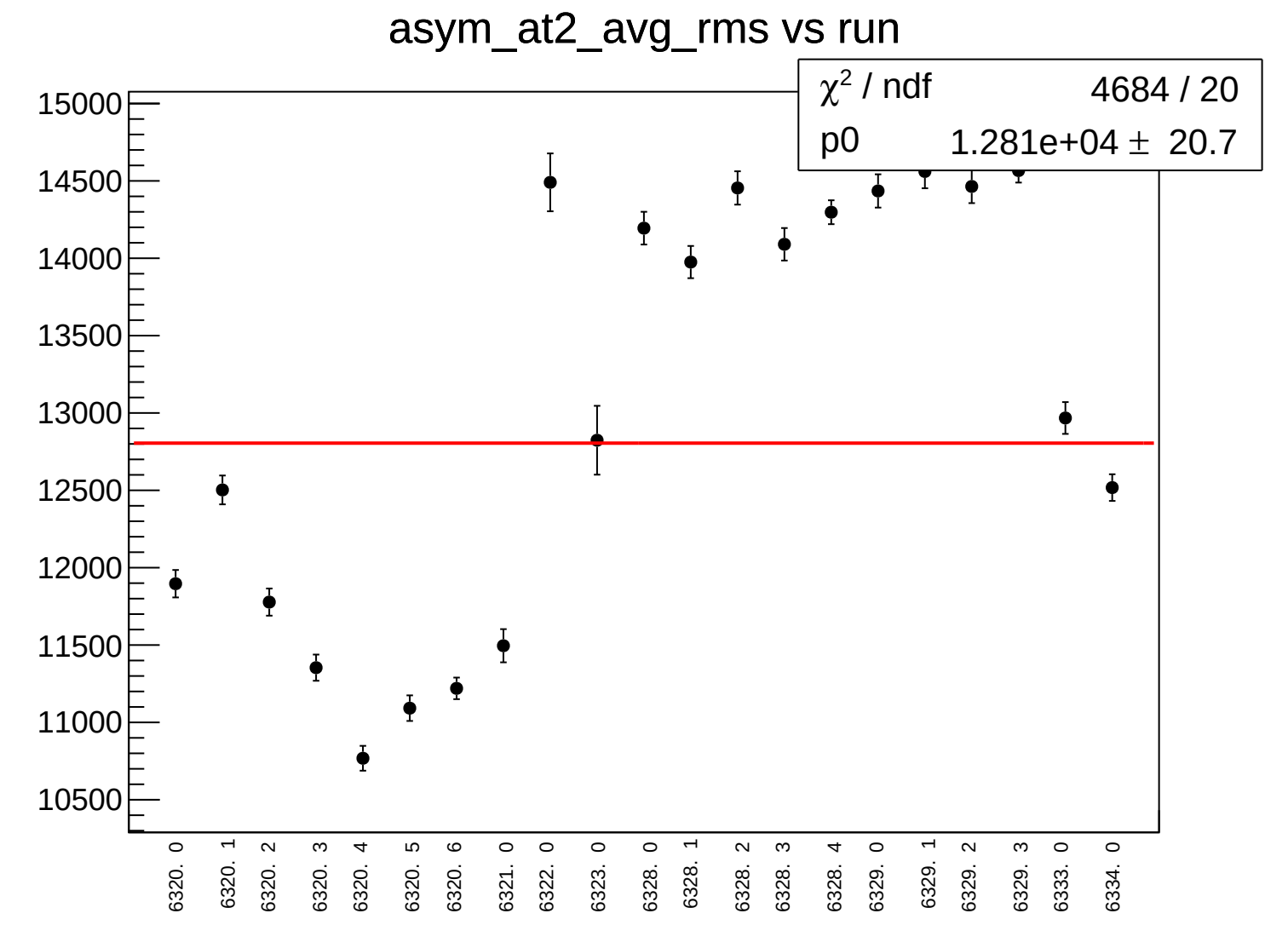

dit_asym_at2_avg_rms vs run
χ² / ndf 58.24 / 20
p0 2655 ± 4.266
2850
2800
2750
2700
2650
2600
2550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

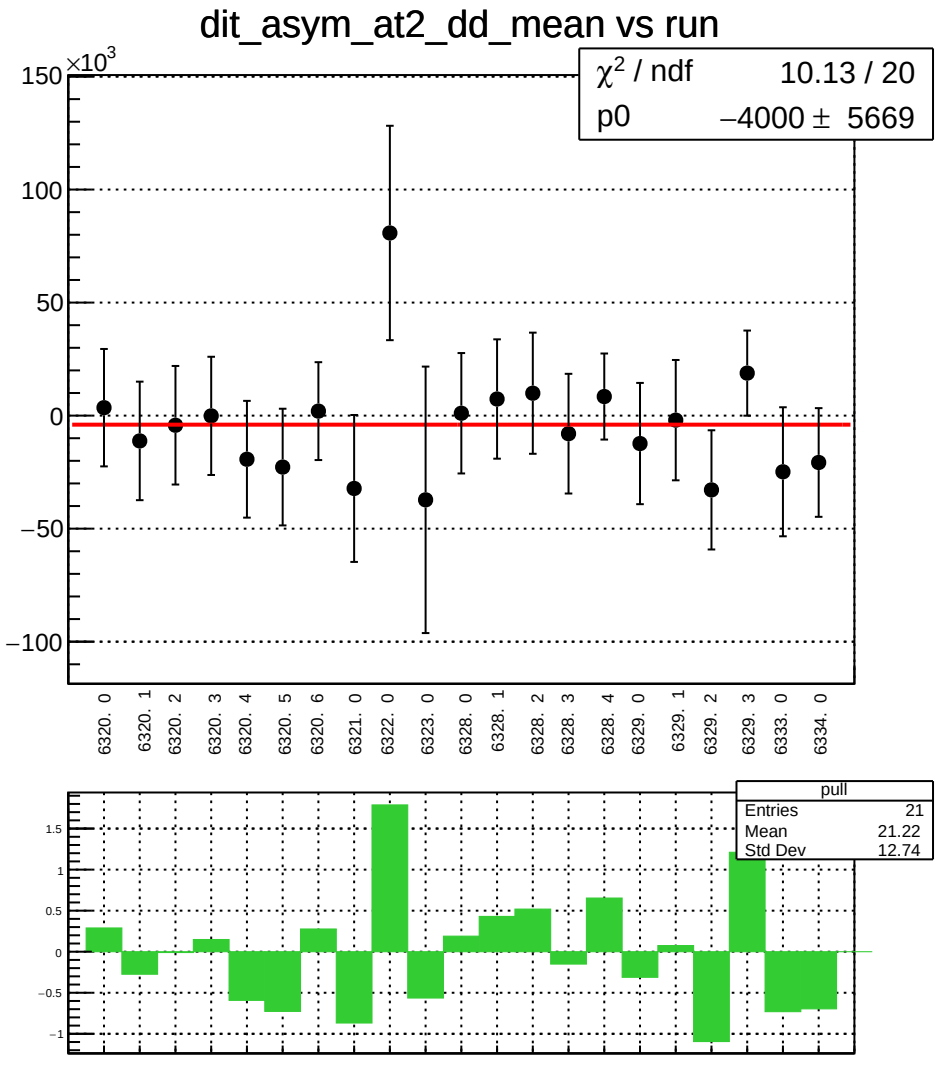

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 19.17 / 20
p0 −8708 ± 2.911e+04
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.06
Std Dev 24.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

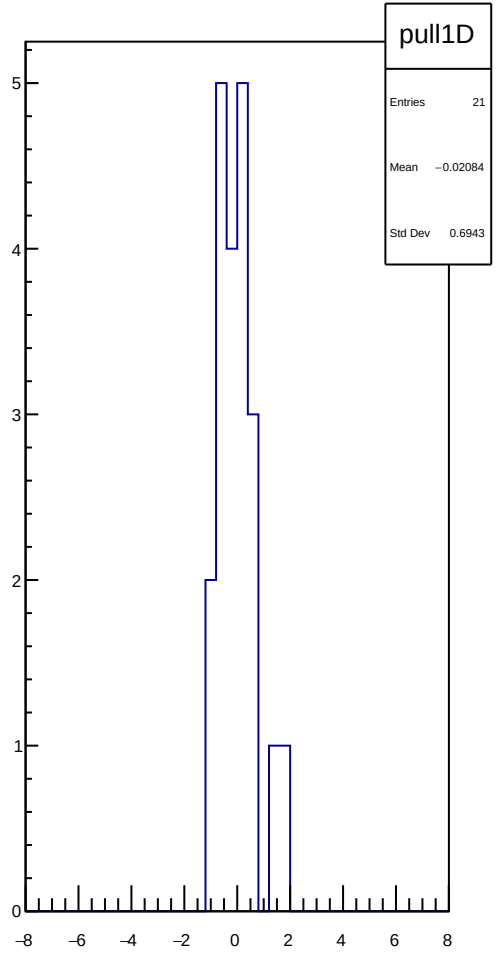

pull1D
Entries 21
Mean −0.03672
Std Dev 0.9548
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

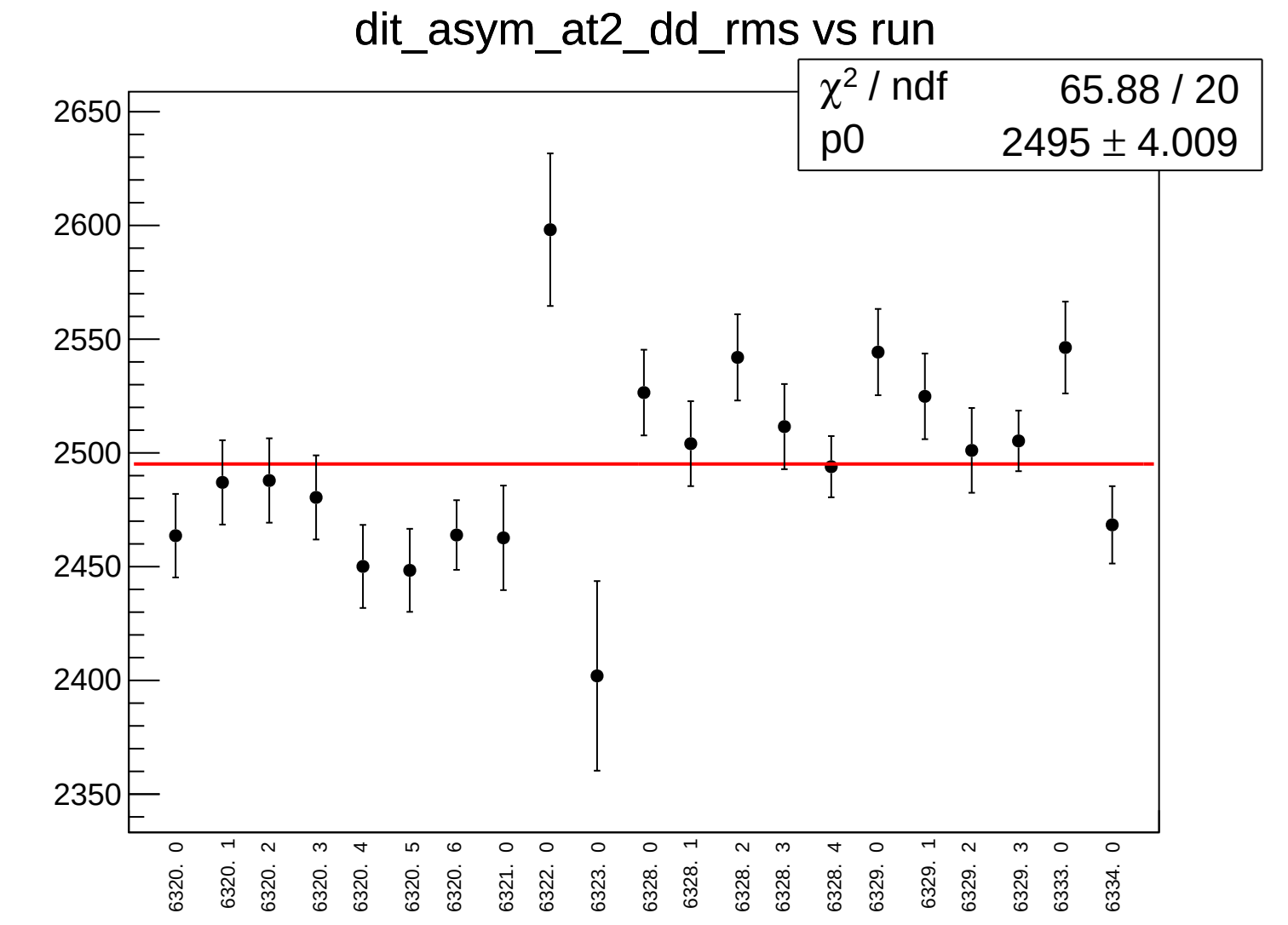

asym_at2_avg_correction_rms vs run
χ² / ndf 3138 / 20
p0 1.276e+04 ± 20.59
15000
14500
14000
13500
13000
12500
12000
11500
11000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

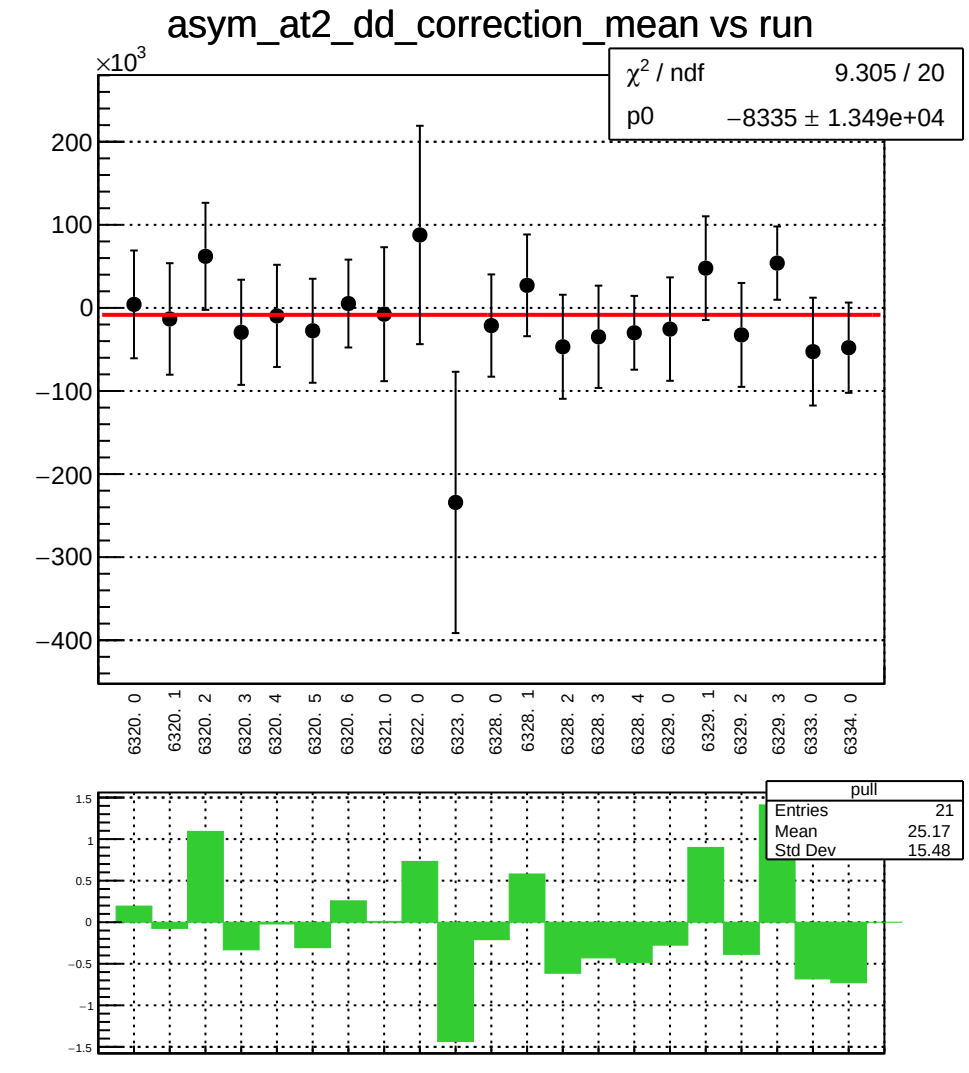

asym_at2_avg_mean vs run
×10^3
χ² / ndf 21.54 / 20
p0 5325 ± 2.927e+04
800
600
400
200
0
−200
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.83
Std Dev 25.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.05144
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

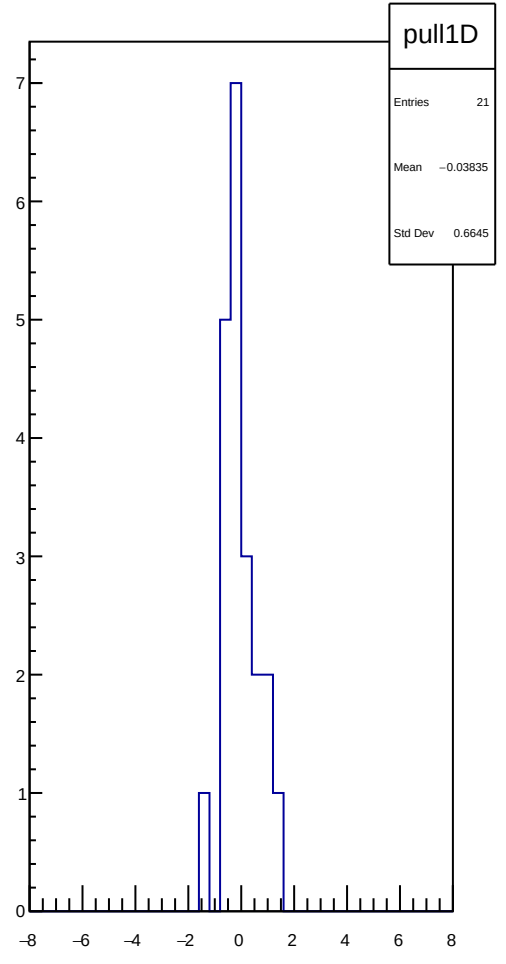

asym_at2_avg_rms vs run
χ² / ndf 4684 / 20
p0 1.281e+04 ± 20.7
15000
14500
14000
13500
13000
12500
12000
11500
11000
10500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

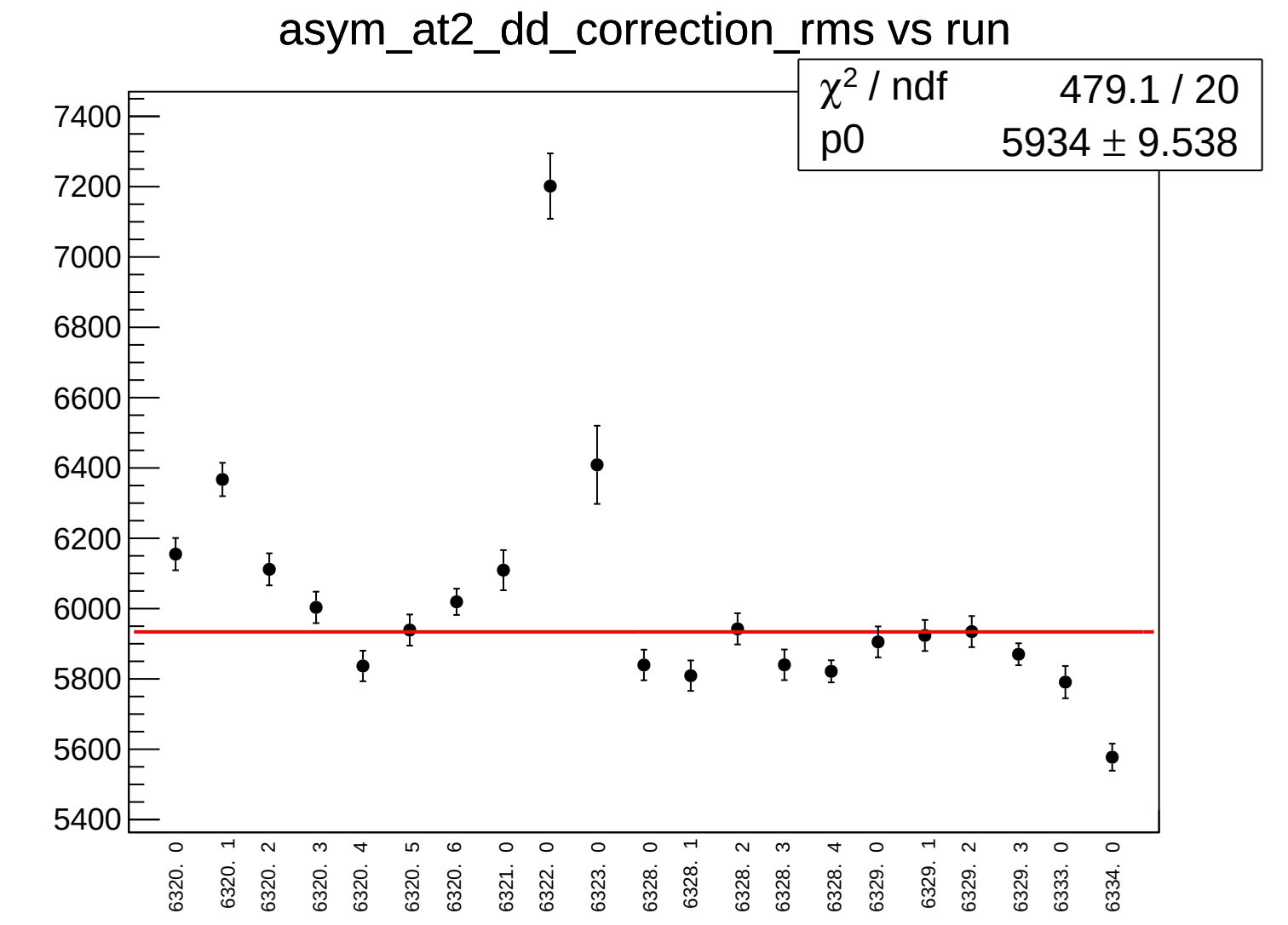

dit_asym_at2_dd_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 10.13 / 20
p0 −4000 ± 5669
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 21.22
Std Dev 12.74
1.5
1
0.5
0
−0.5
−1

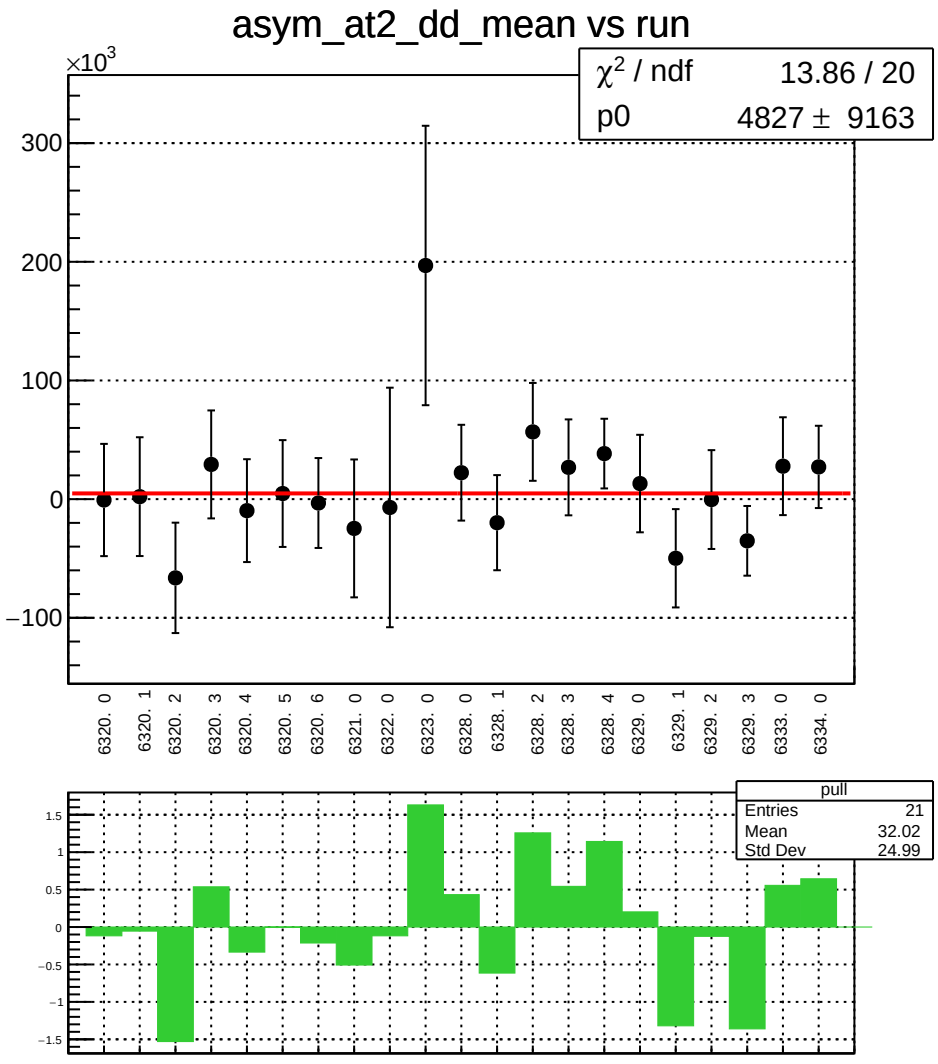

pull1D
Entries 21
Mean −0.02084
Std Dev 0.6943
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

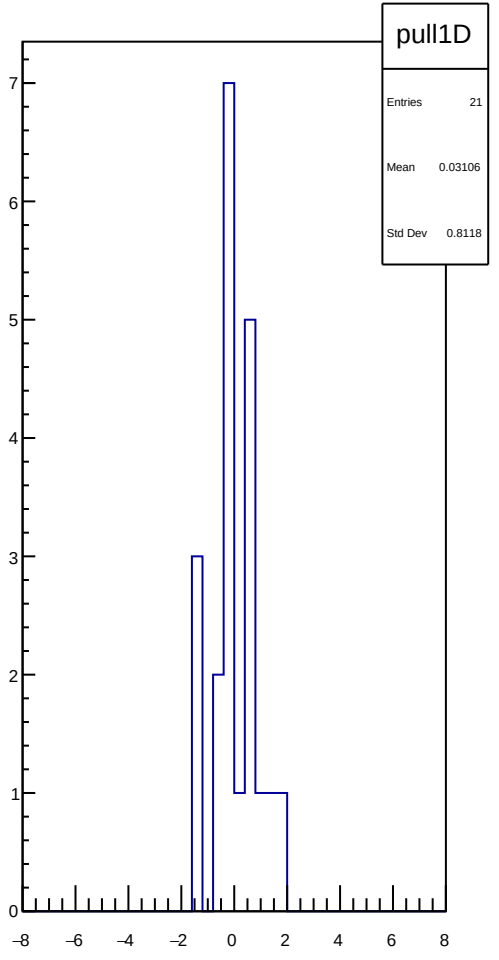

dit_asym_at2_dd_rms vs run
χ² / ndf 65.88 / 20
p0 2495 ± 4.009
2650
2600
2550
2500
2450
2400
2350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

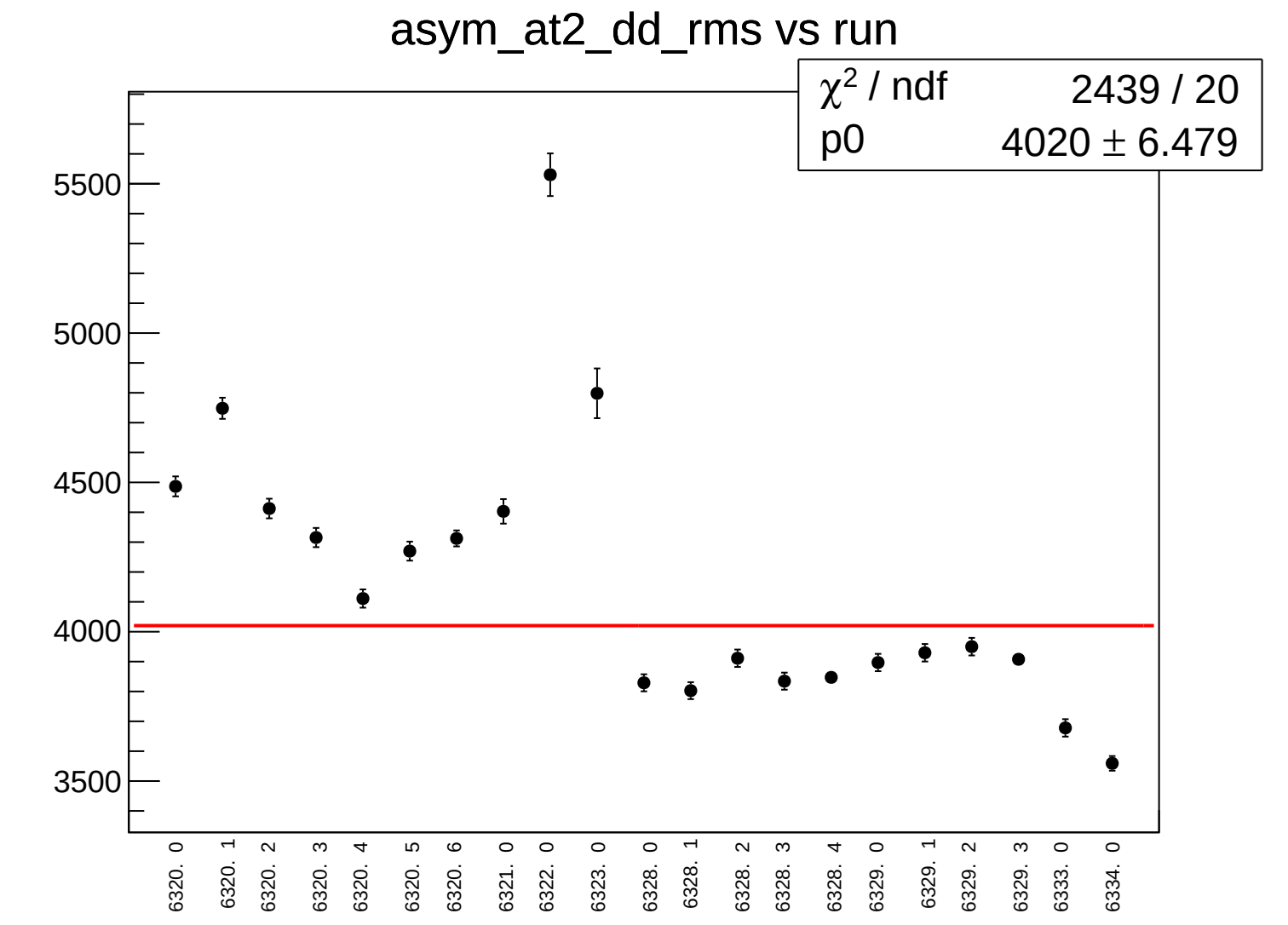

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 9.305 / 20
p0 −8335 ± 1.349e+04
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.17
Std Dev 15.48
1.5
1
0.5
0
−0.5
−1
−1.5

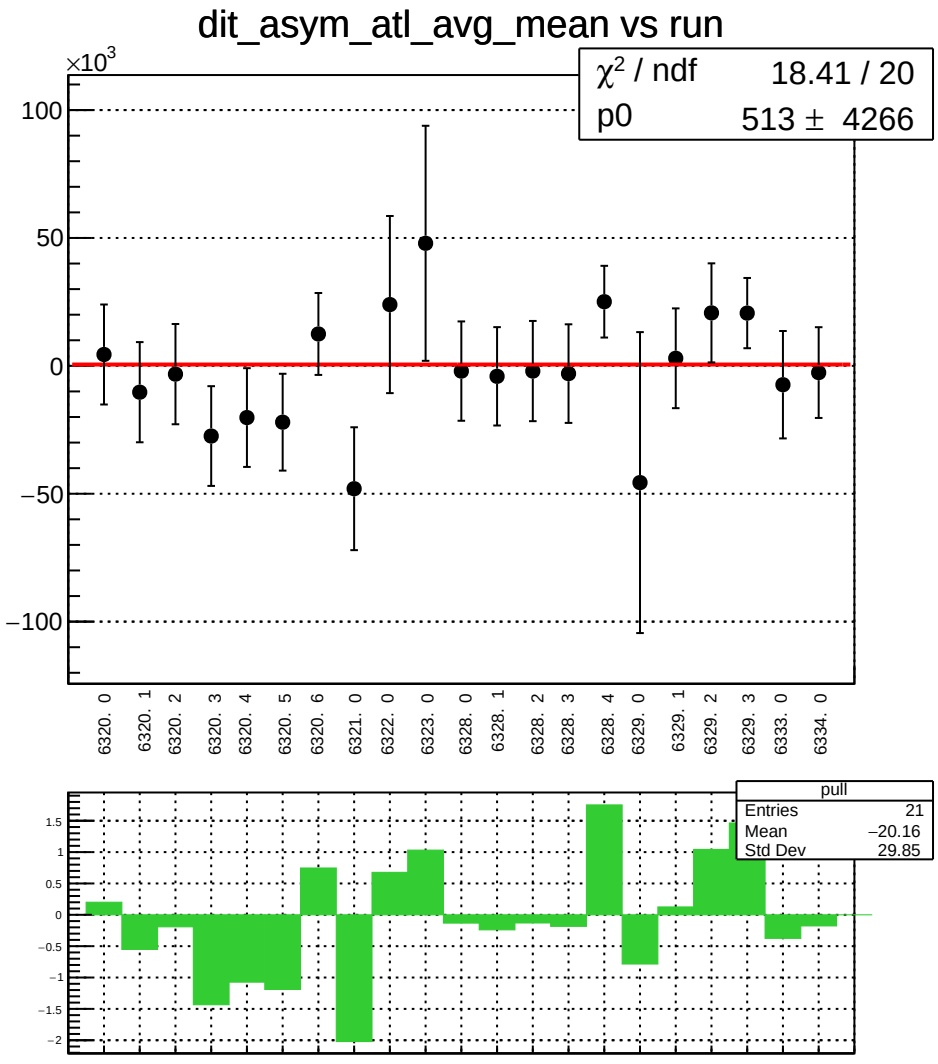

pull1D
Entries 21
Mean −0.03835
Std Dev 0.6645
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

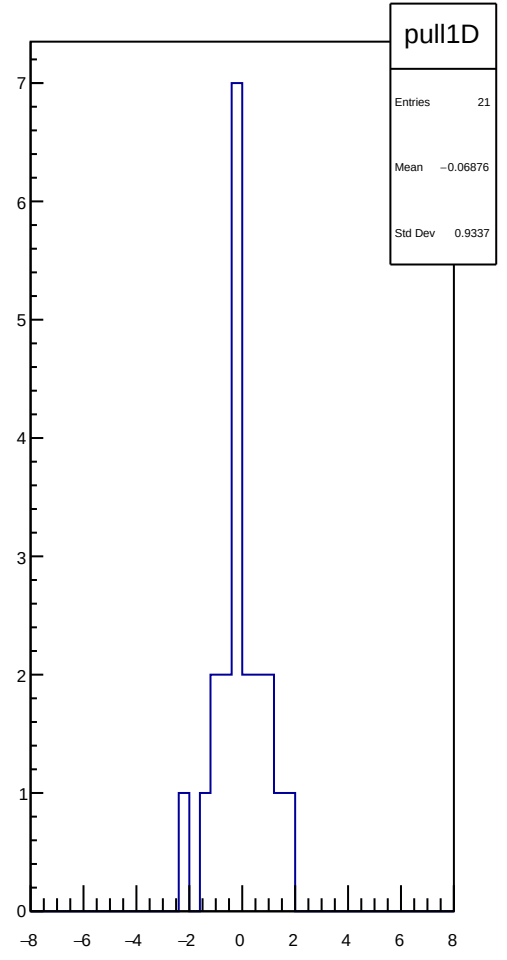

asym_at2_dd_correction_rms vs run
χ² / ndf 479.1 / 20
p0 5934 ± 9.538
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

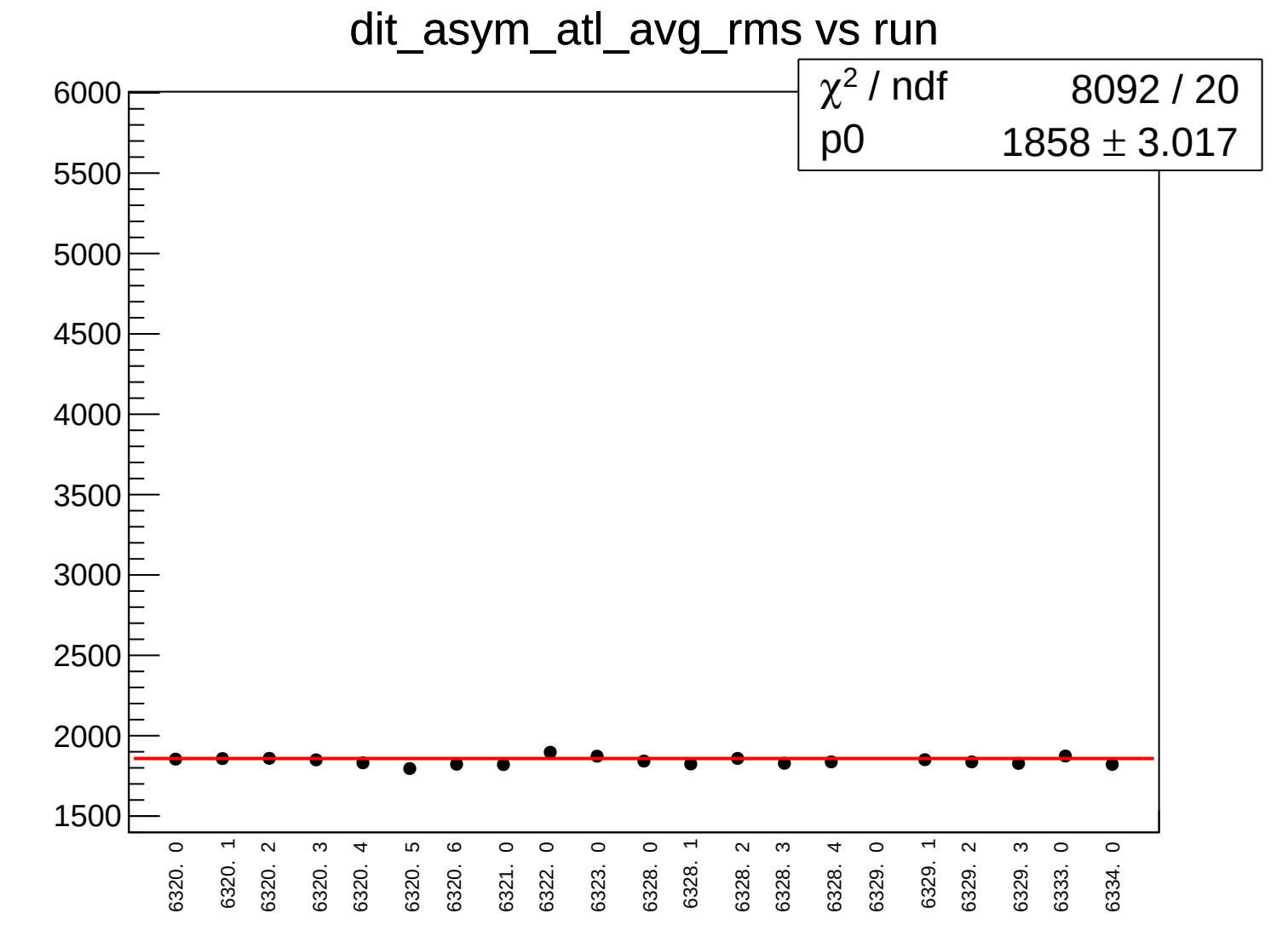

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 13.86 / 20
p0 4827 ± 9163
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.02
Std Dev 24.99
1.5
1
0.5
0
−0.5
−1
−1.5

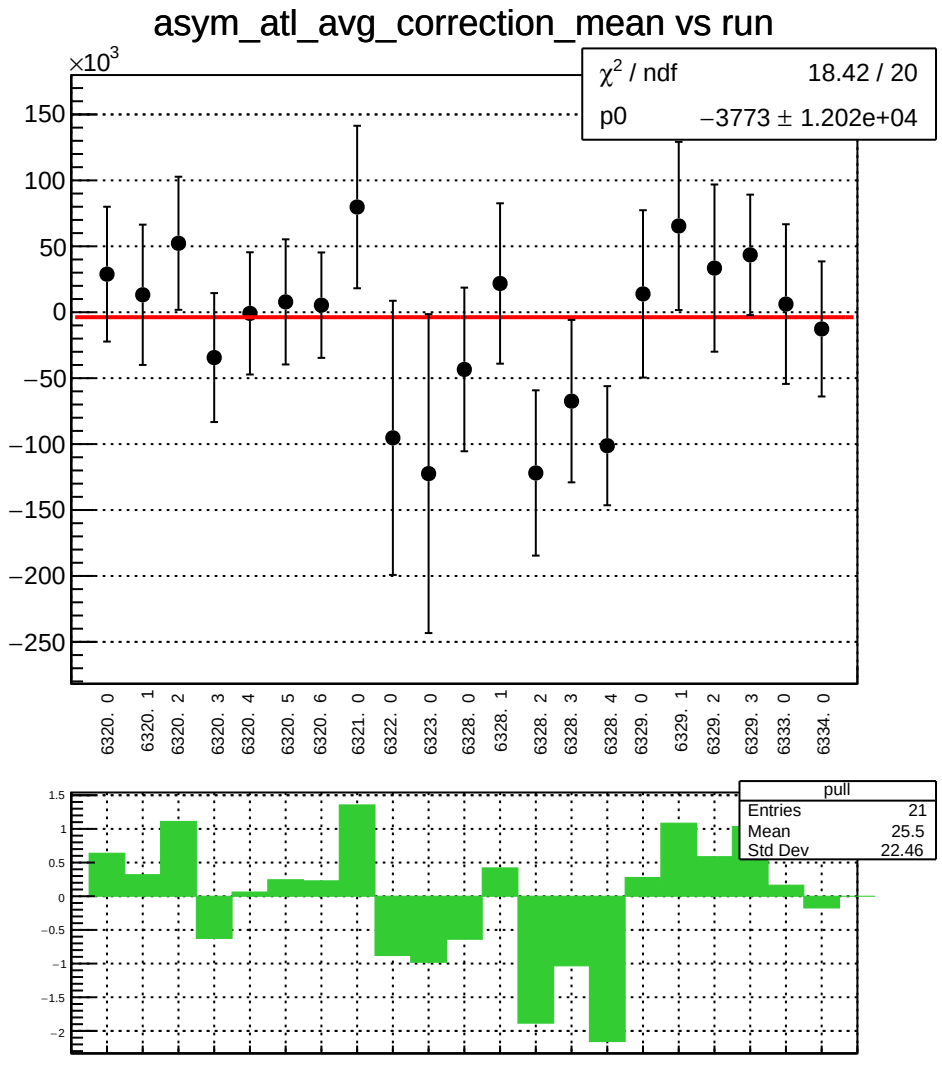

pull1D
Entries 21
Mean 0.03106
Std Dev 0.8118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

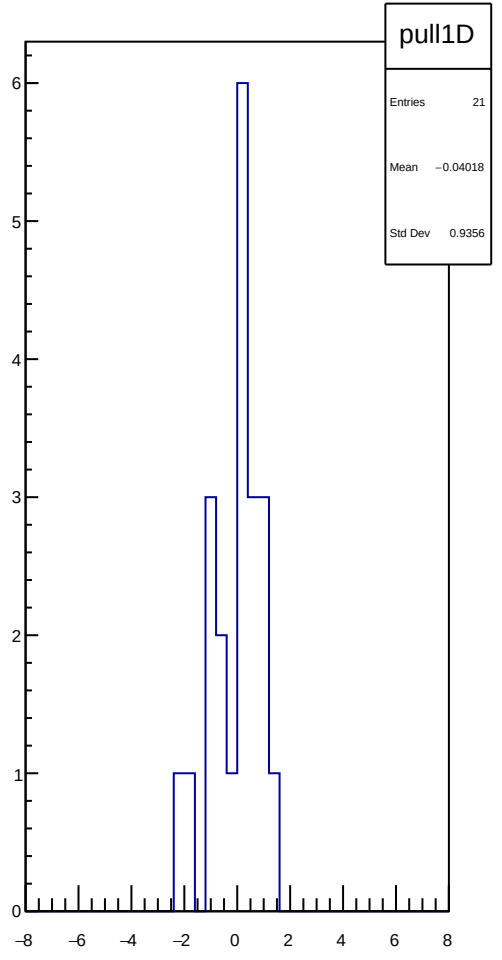

asym_at2_dd_rms vs run
χ² / ndf 2439 / 20
p0 4020 ± 6.479
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

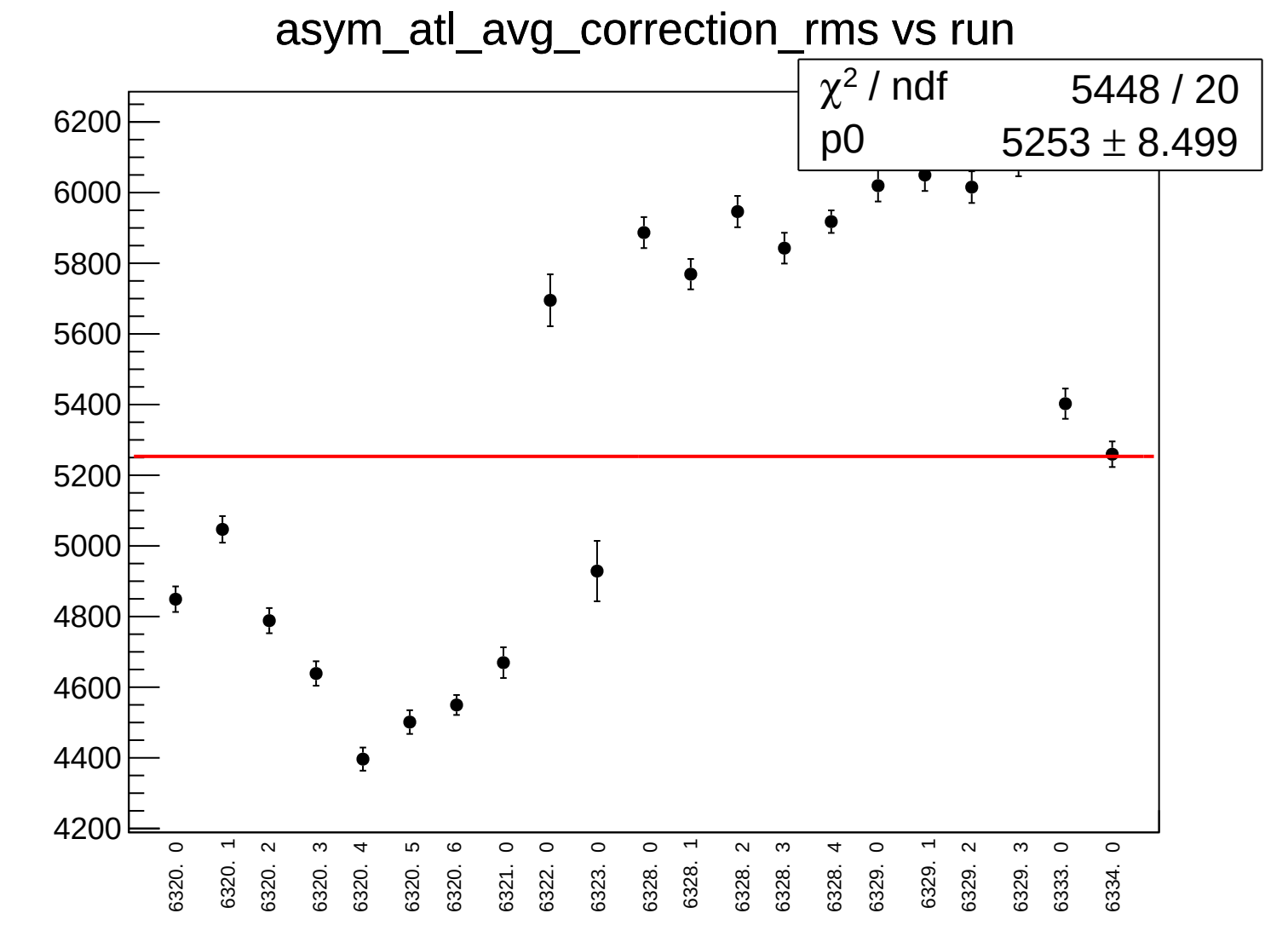

dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 18.41 / 20
p0 513 ± 4266
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.16
Std Dev 29.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2

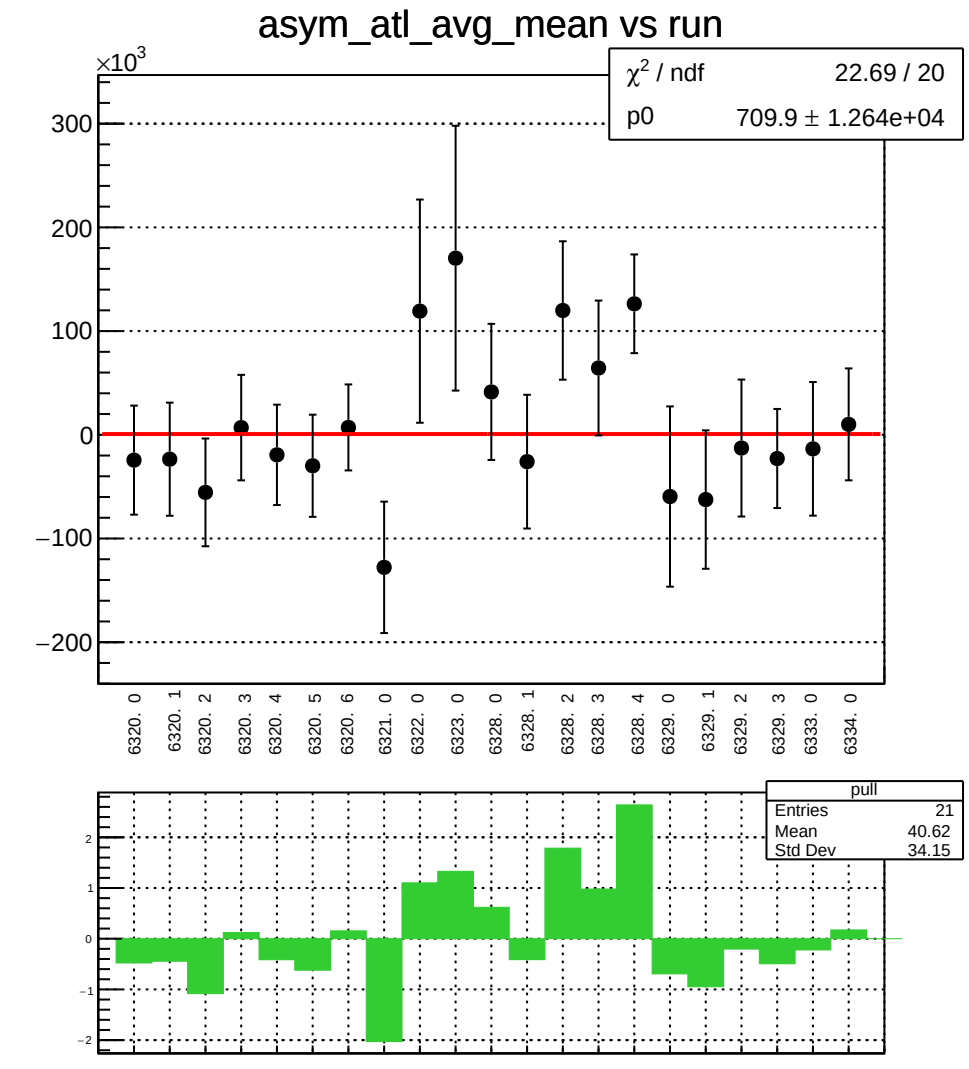

pull1D
Entries 21
Mean −0.06876
Std Dev 0.9337
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

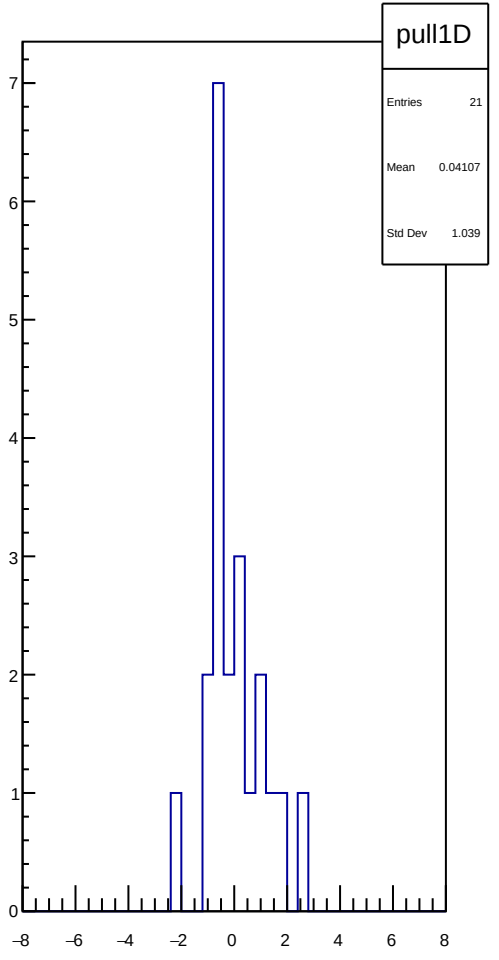

dit_asym_atl_avg_rms vs run
χ² / ndf 8092 / 20
p0 1858 ± 3.017
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

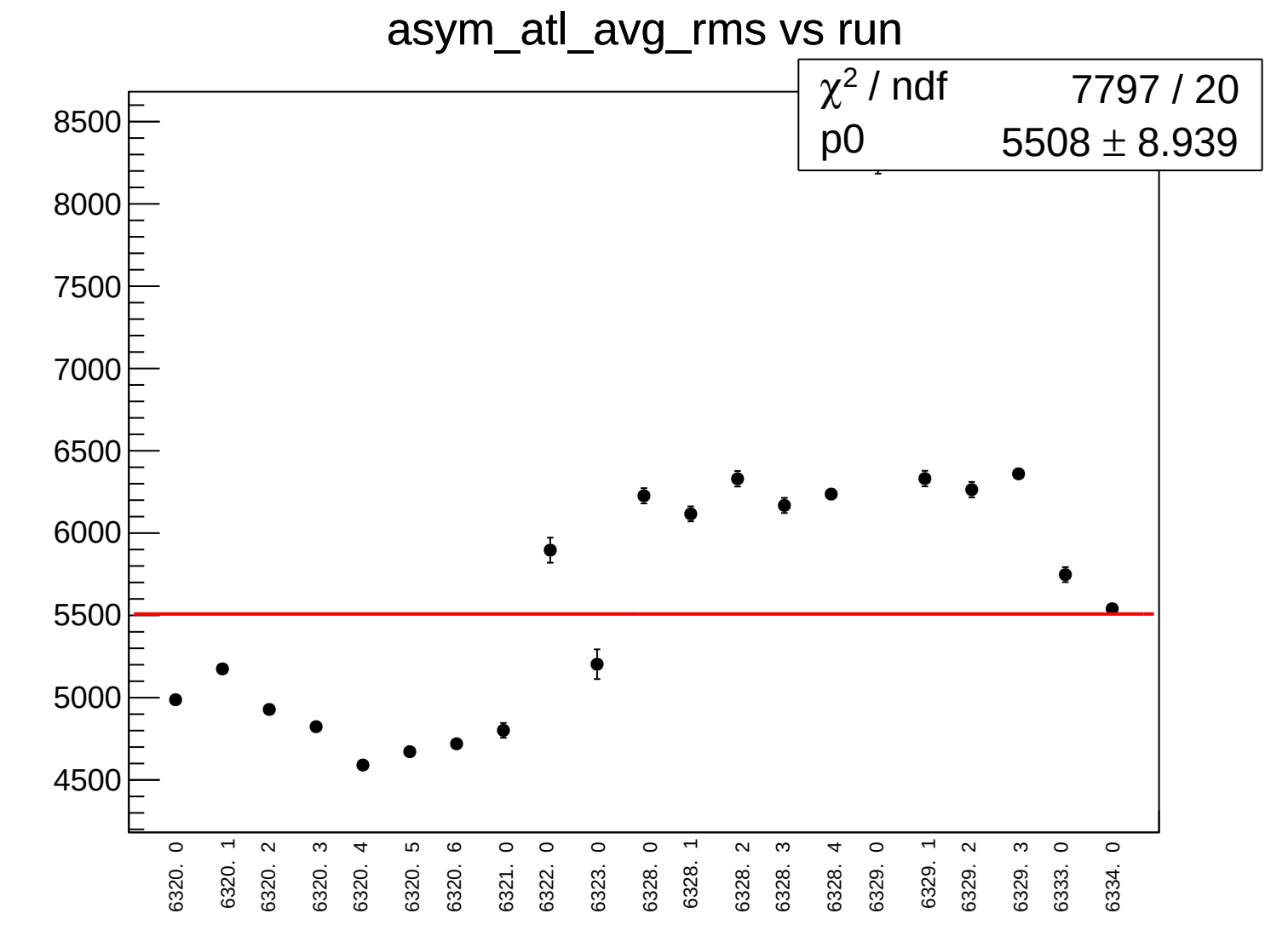

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 18.42 / 20
p0 −3773 ± 1.202e+04
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.5
Std Dev 22.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2

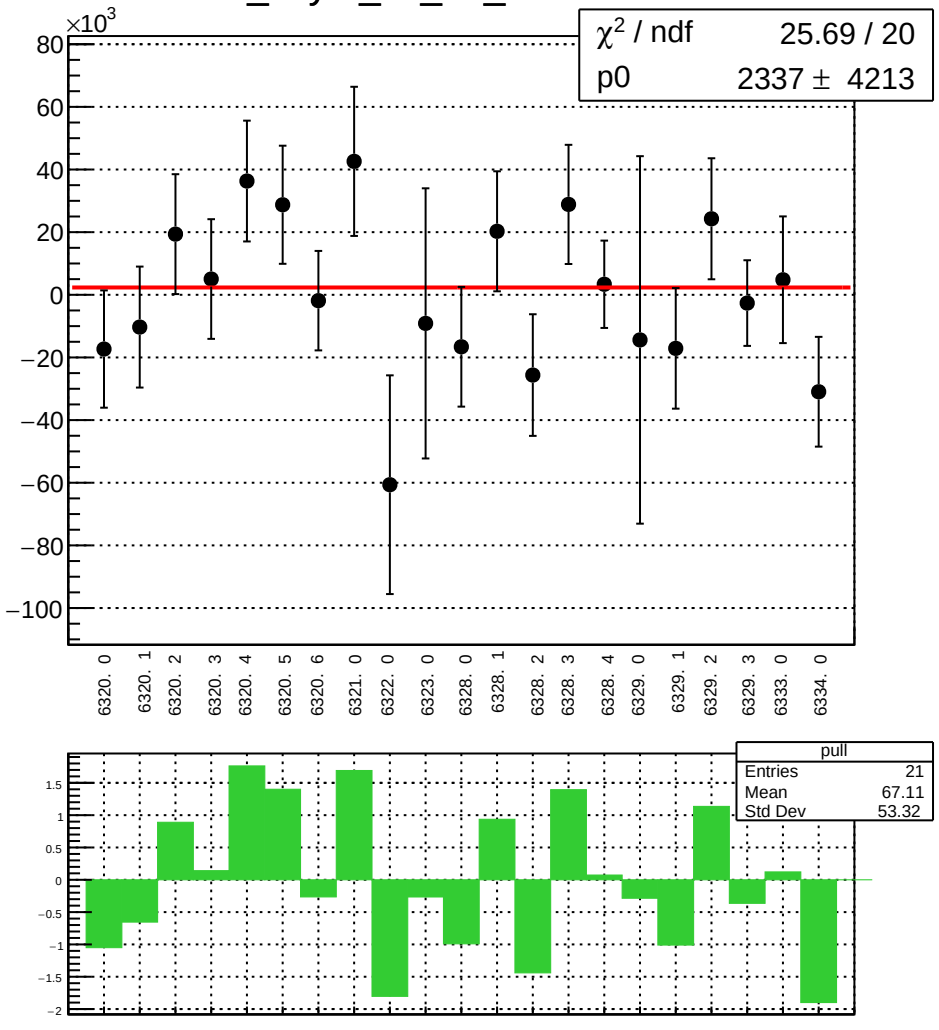

pull1D
Entries 21
Mean −0.04018
Std Dev 0.9356
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

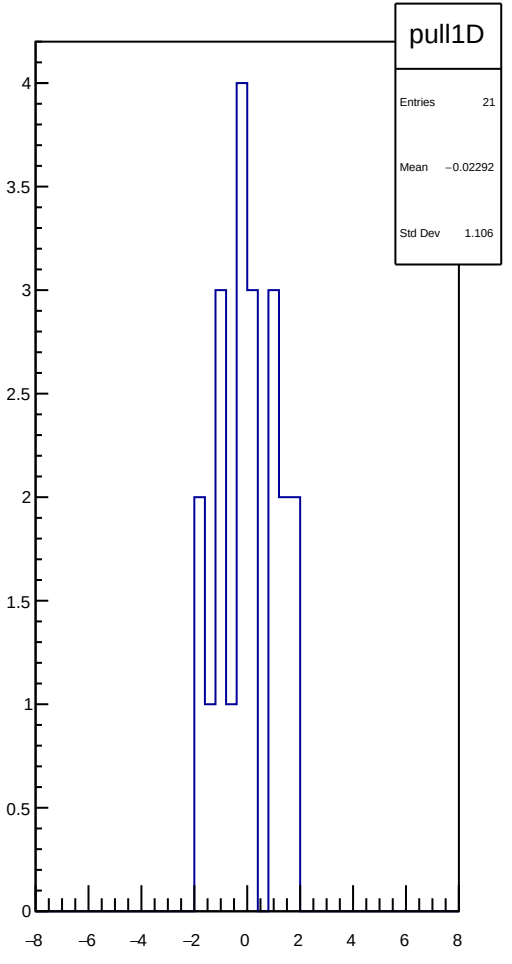

asym_atl_avg_correction_rms vs run
χ² / ndf 5448 / 20
p0 5253 ± 8.499
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

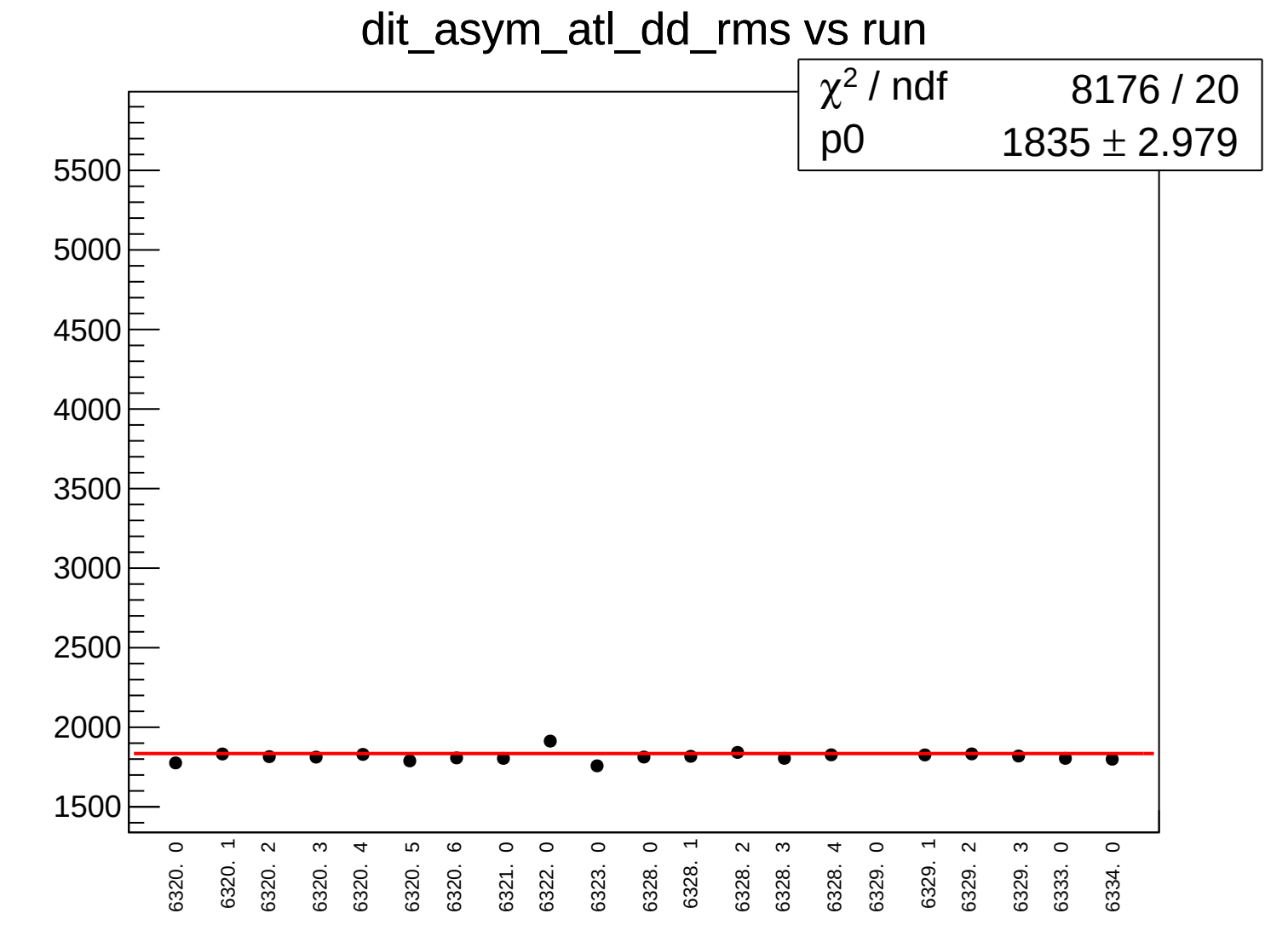

asym_atl_avg_mean vs run
×10^3
χ² / ndf 22.69 / 20
p0 709.9 ± 1.264e+04
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.62
Std Dev 34.15
2
1
0
−1
−2

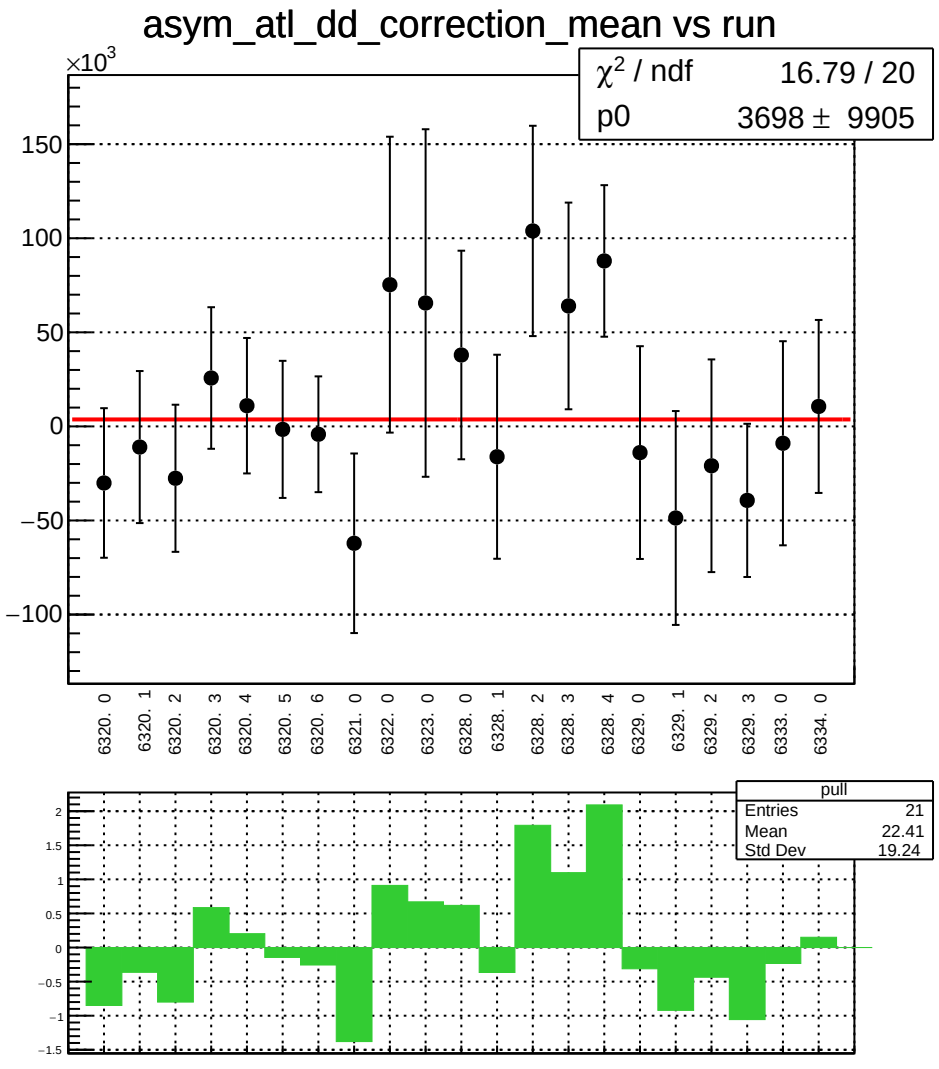

pull1D
Entries 21
Mean 0.04107
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

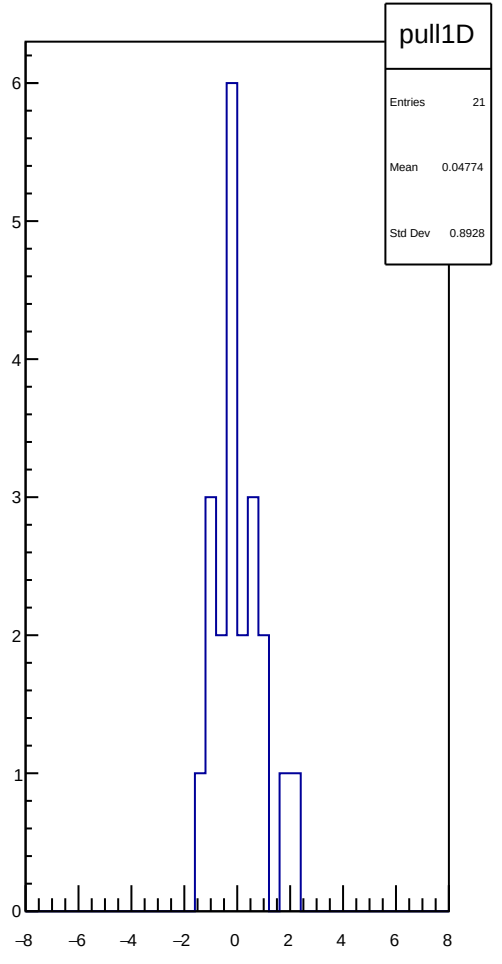

asym_atl_avg_rms vs run
χ² / ndf 7797 / 20
p0 5508 ± 8.939
8500
8000
7500
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

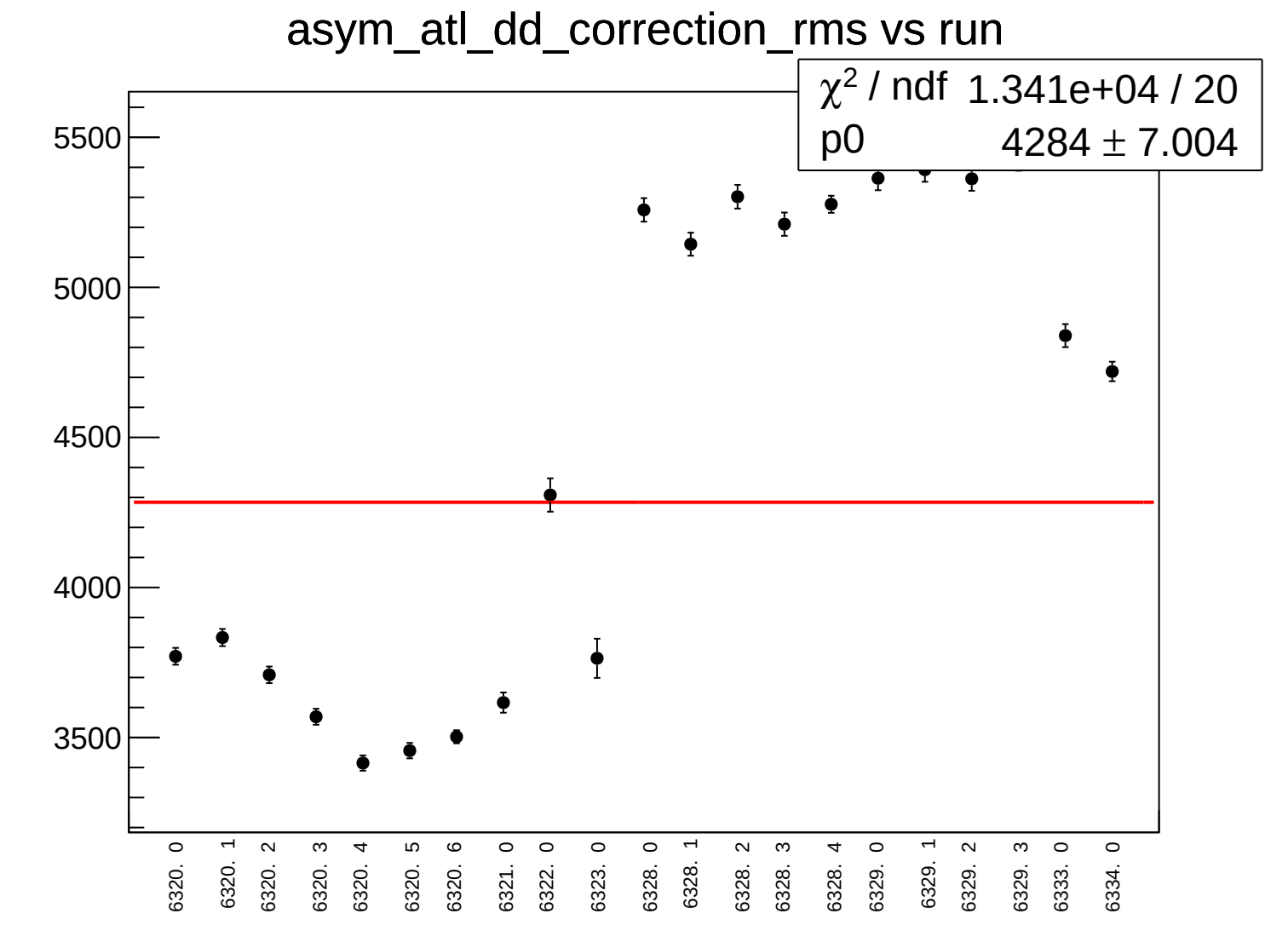

dit_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 25.69 / 20
p0 2337 ± 4213
80
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 67.11
Std Dev 53.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2

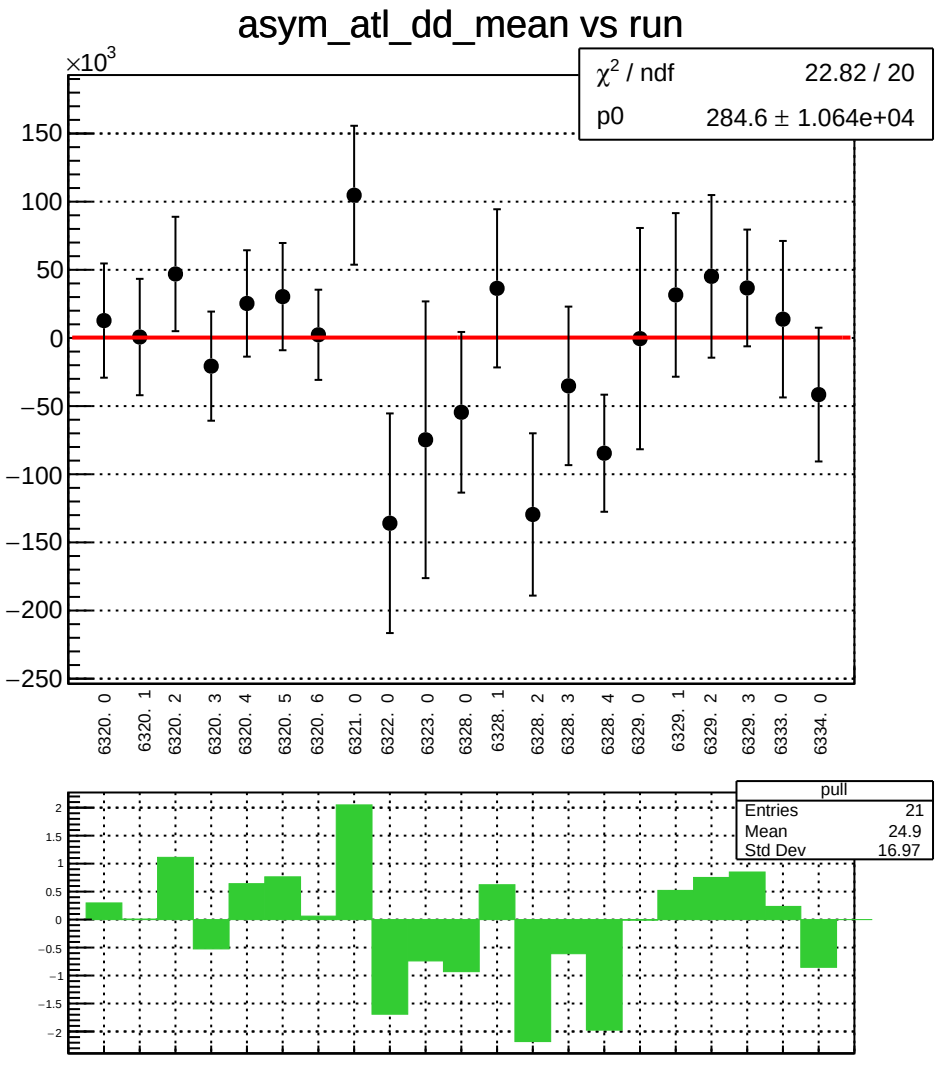

pull1D
Entries 21
Mean −0.02292
Std Dev 1.106
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

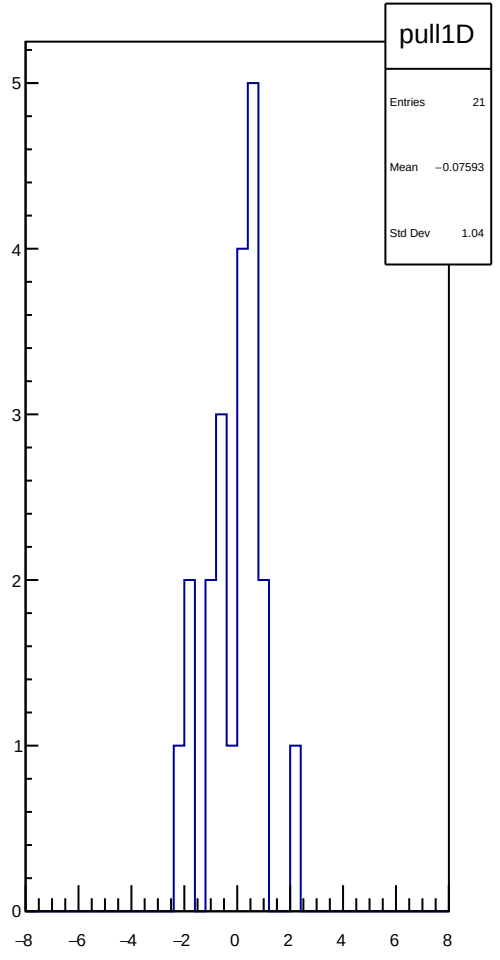

dit_asym_atl_dd_rms vs run
χ² / ndf 8176 / 20
p0 1835 ± 2.979
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

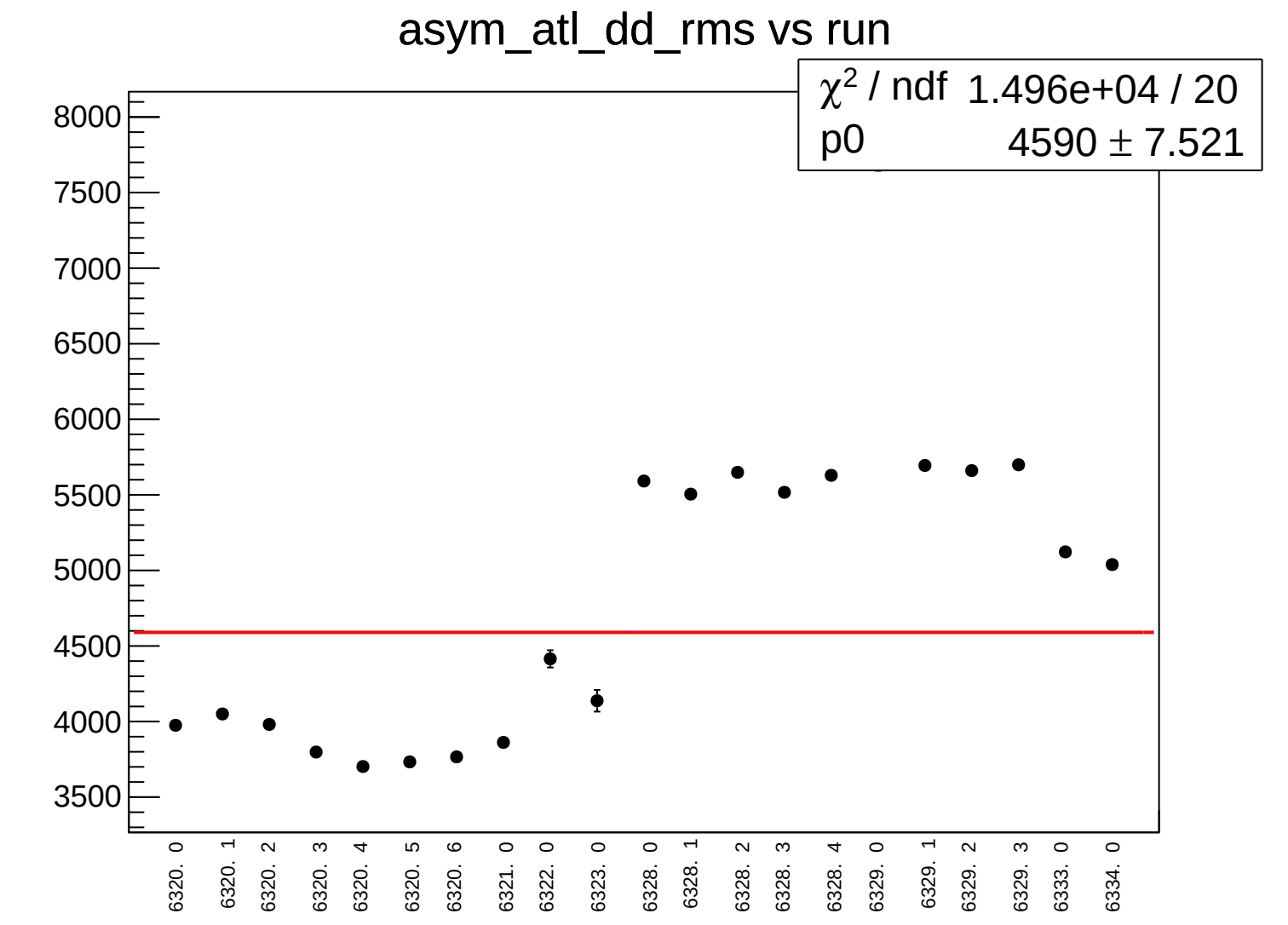

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 16.79 / 20
p0 3698 ± 9905
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 22.41
Std Dev 19.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

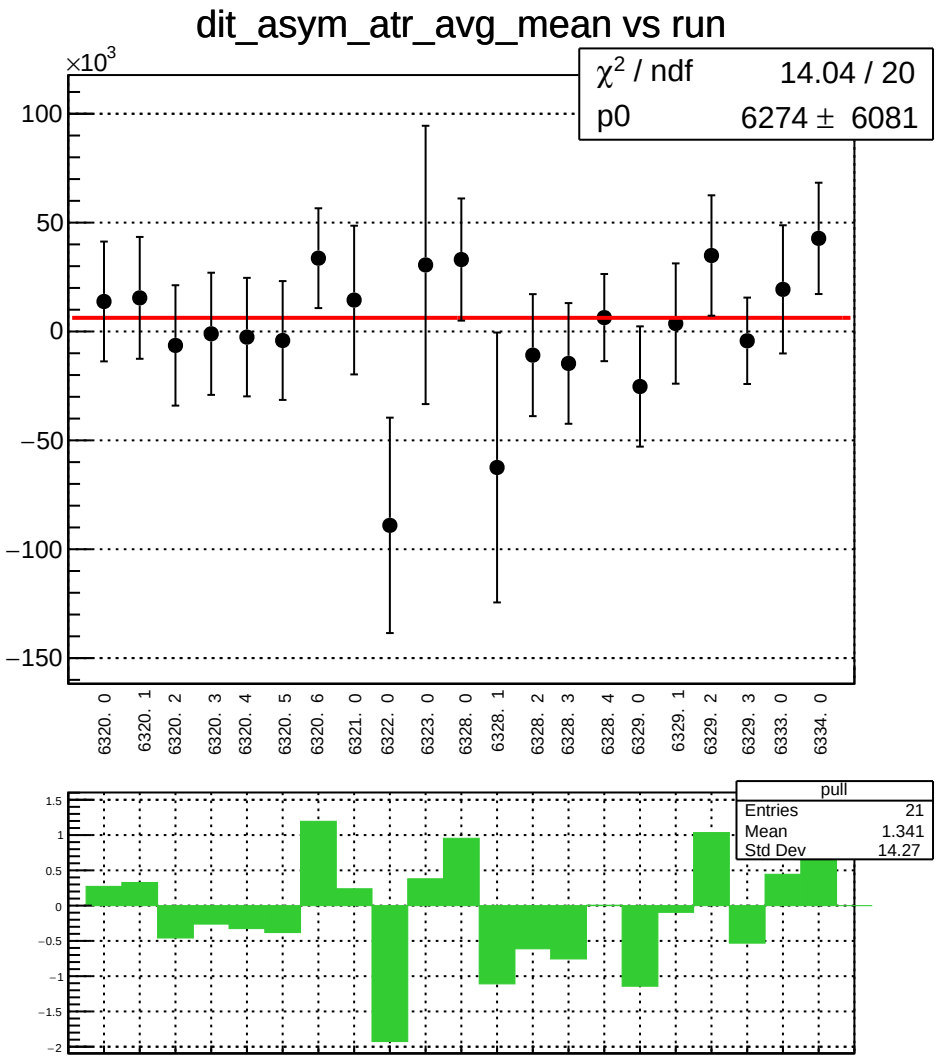

pull1D
Entries 21
Mean 0.04774
Std Dev 0.8928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

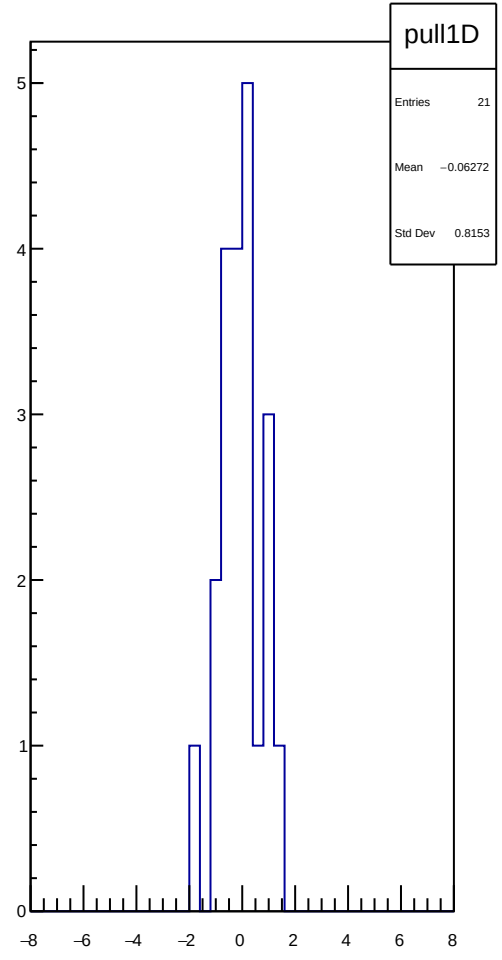

asym_atl_dd_correction_rms vs run
χ² / ndf 1.341e+04 / 20
p0 4284 ± 7.004
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

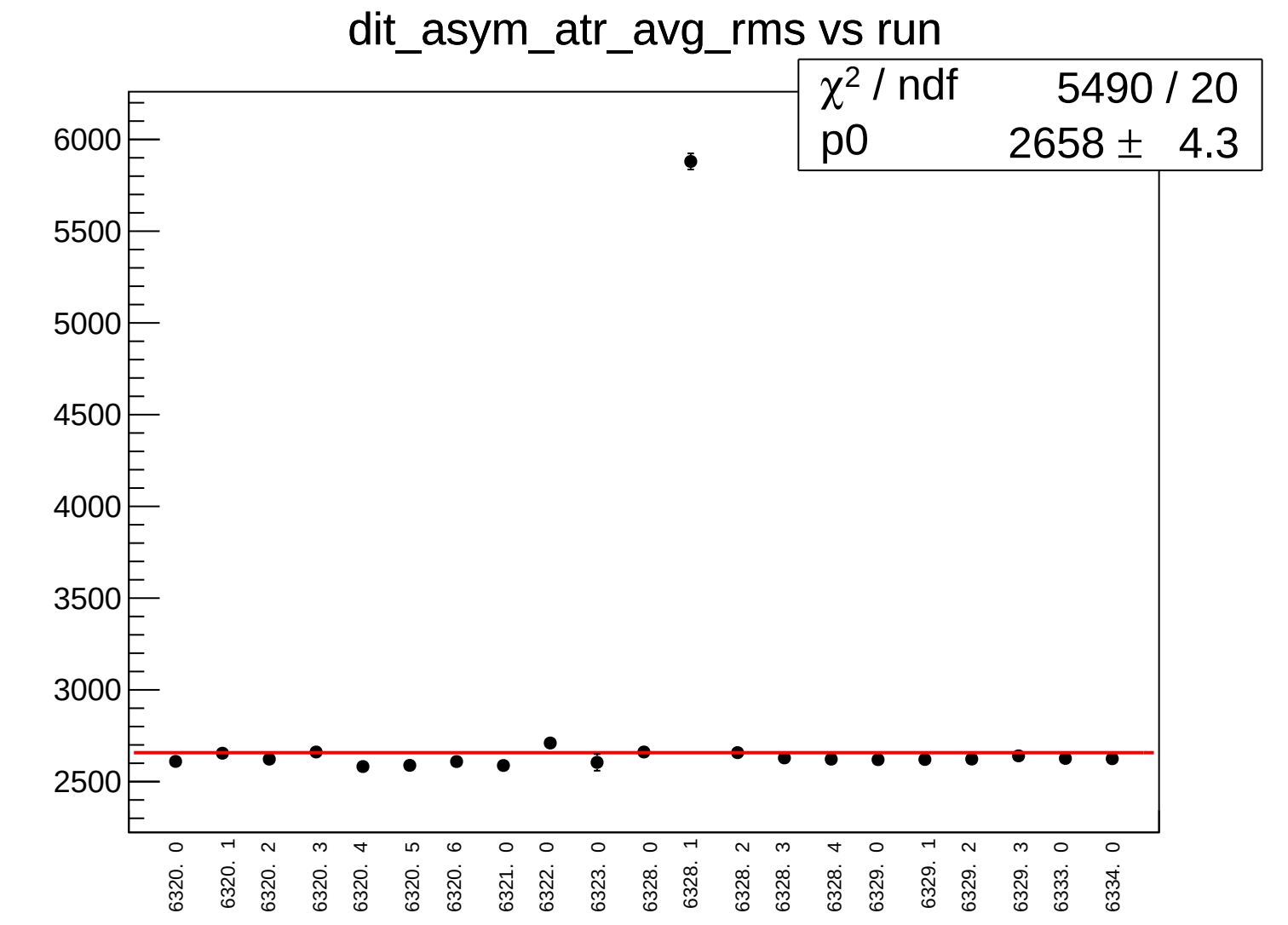

asym_atl_dd_mean vs run
×10^3
χ² / ndf 22.82 / 20
p0 284.6 ± 1.064e+04
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 24.9
Std Dev 16.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

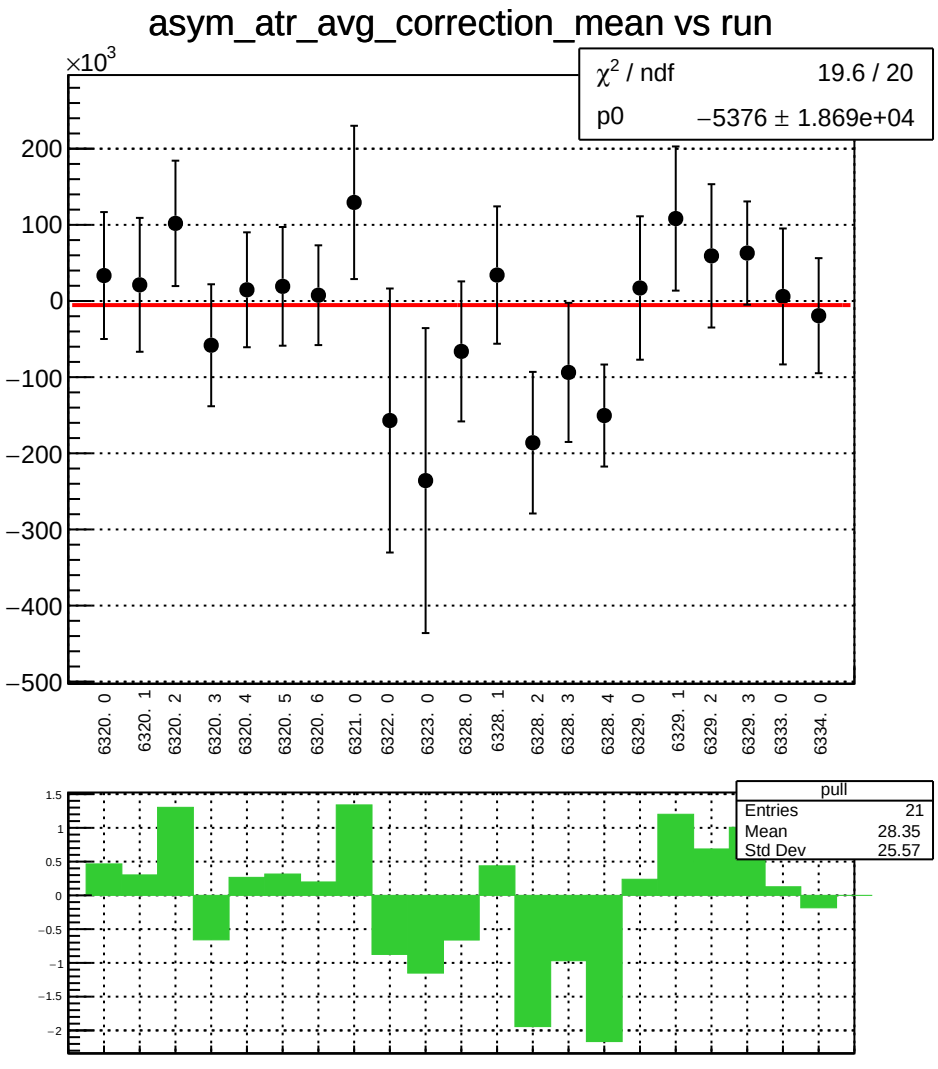

pull1D
Entries 21
Mean −0.07593
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

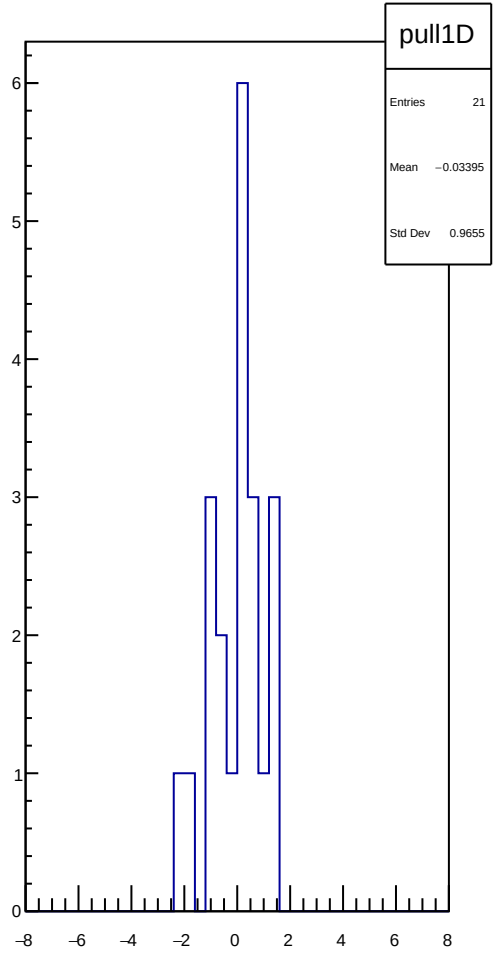

asym_atl_dd_rms vs run
χ² / ndf 1.496e+04 / 20
p0 4590 ± 7.521
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

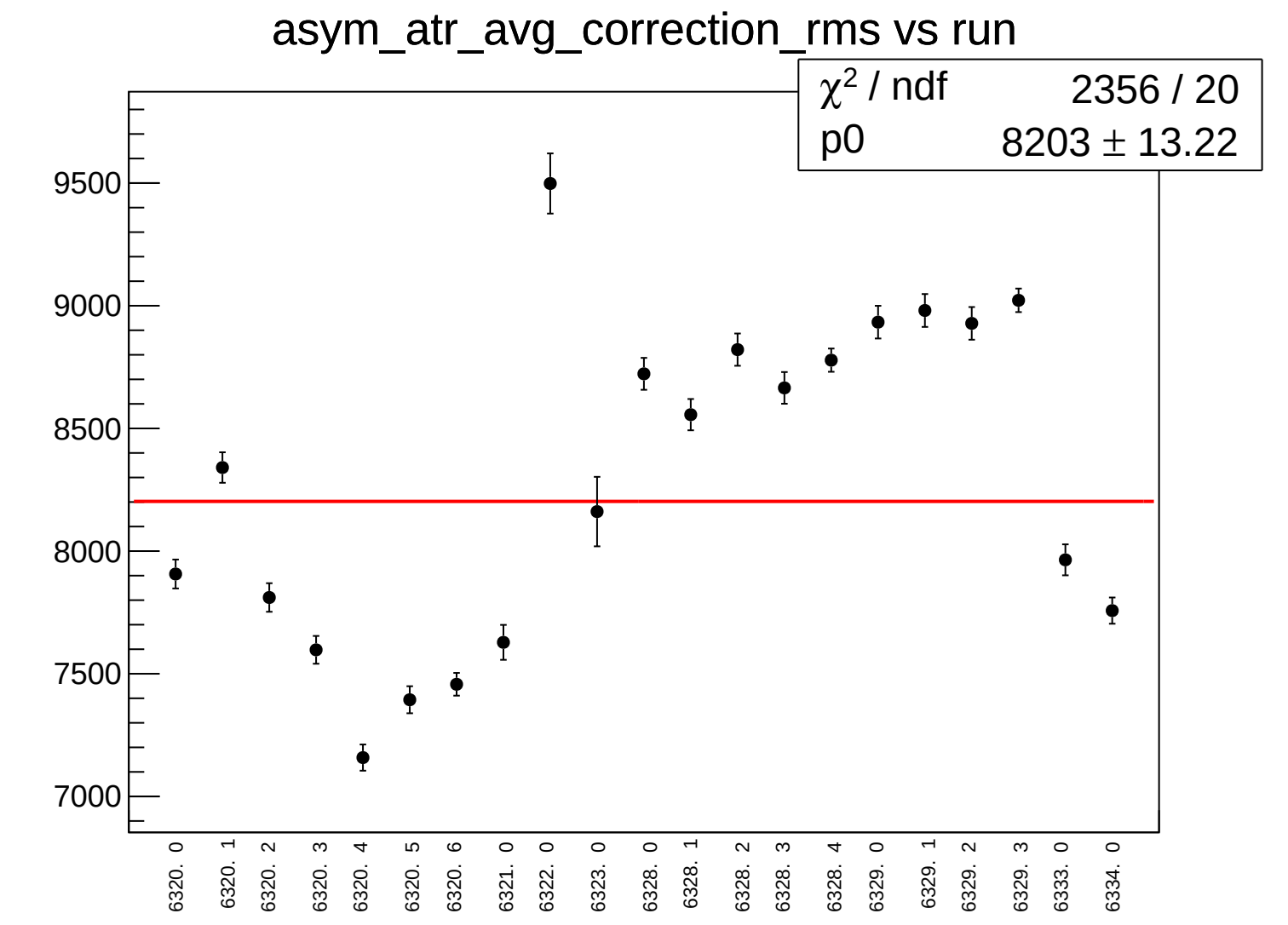

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 14.04 / 20
p0 6274 ± 6081
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.341
Std Dev 14.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

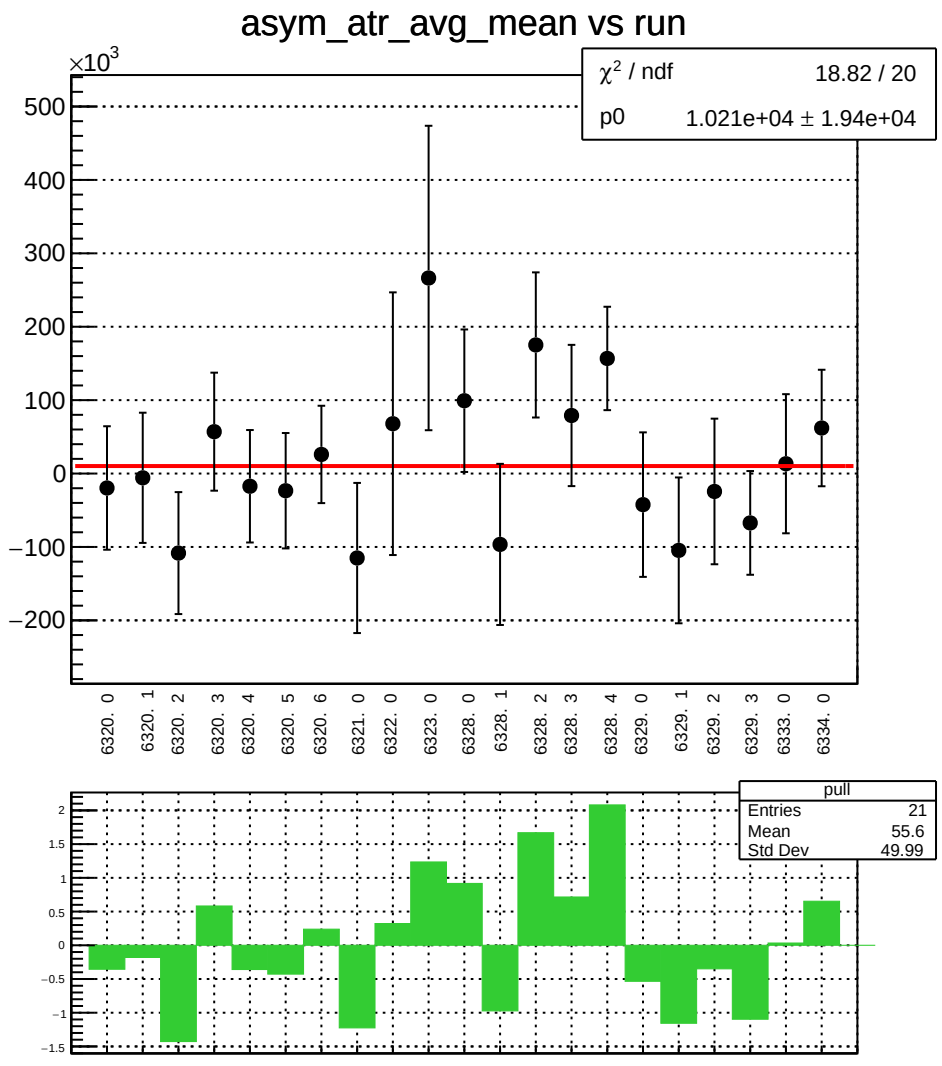

pull1D
Entries 21
Mean −0.06272
Std Dev 0.8153
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

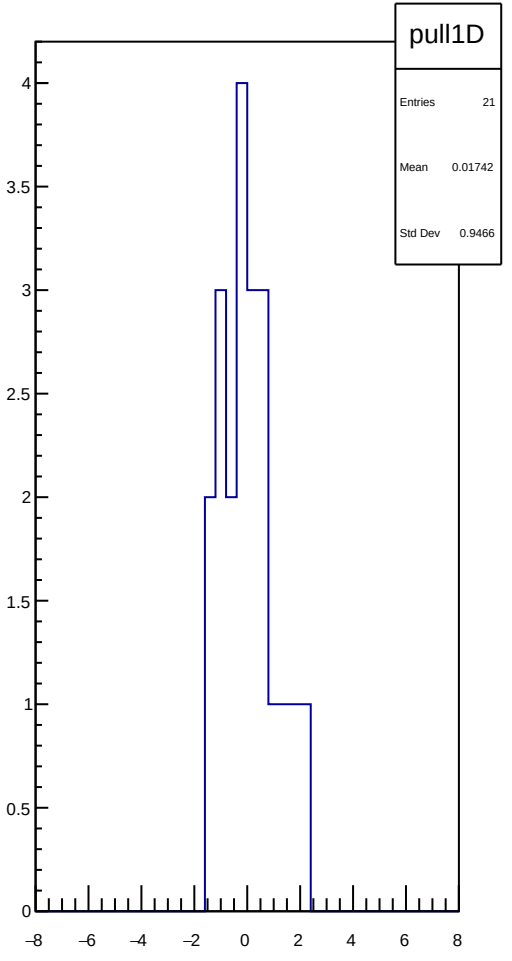

dit_asym_atr_avg_rms vs run
χ² / ndf 5490 / 20
p0 2658 ± 4.3
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

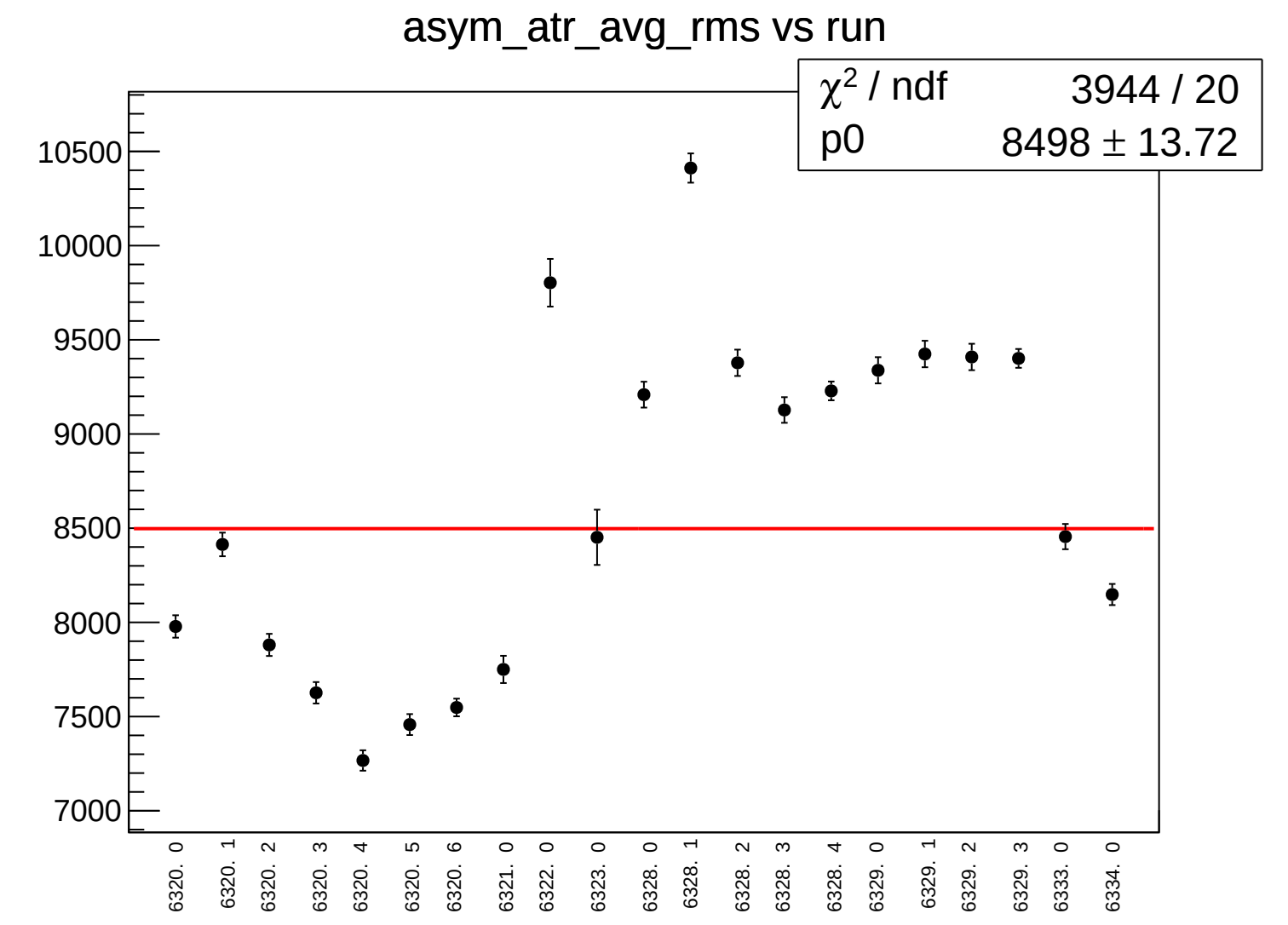

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 19.6 / 20
p0 −5376 ± 1.869e+04
200
100
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.35
Std Dev 25.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2

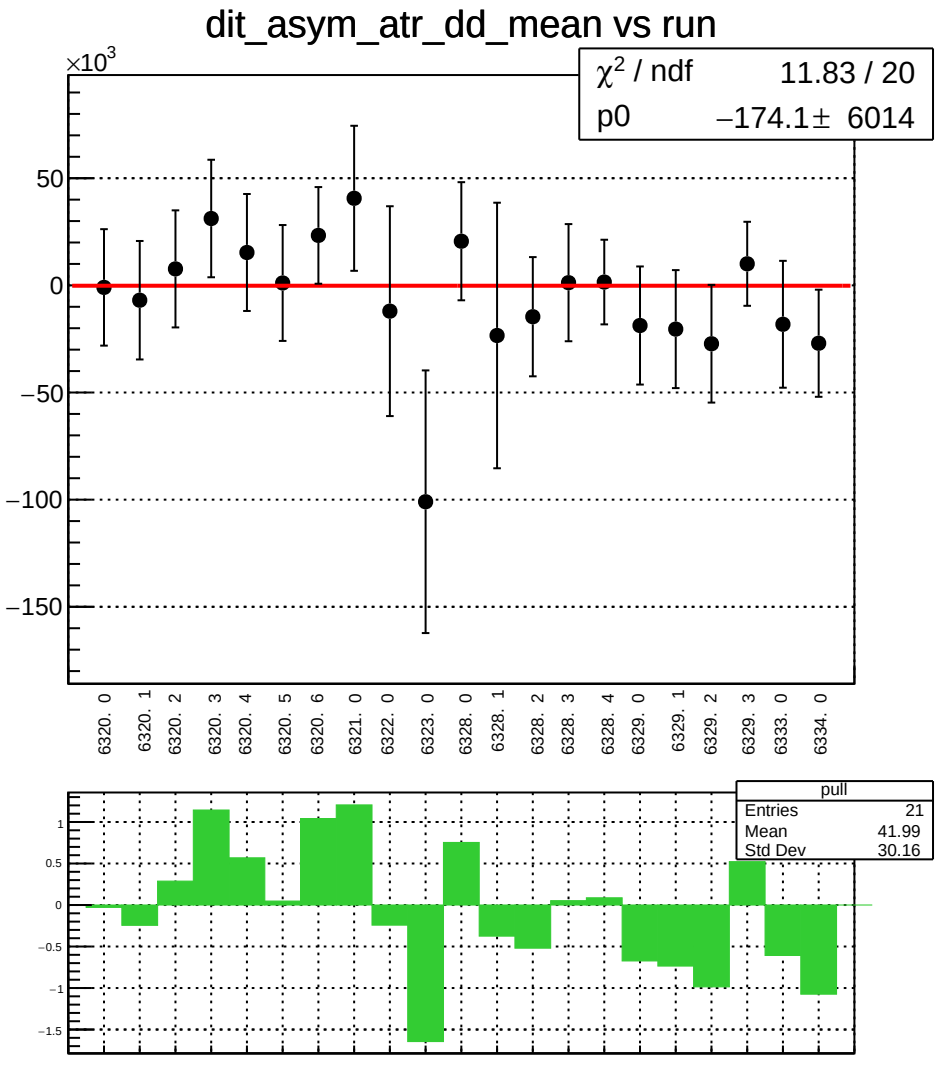

pull1D
Entries 21
Mean −0.03395
Std Dev 0.9655
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

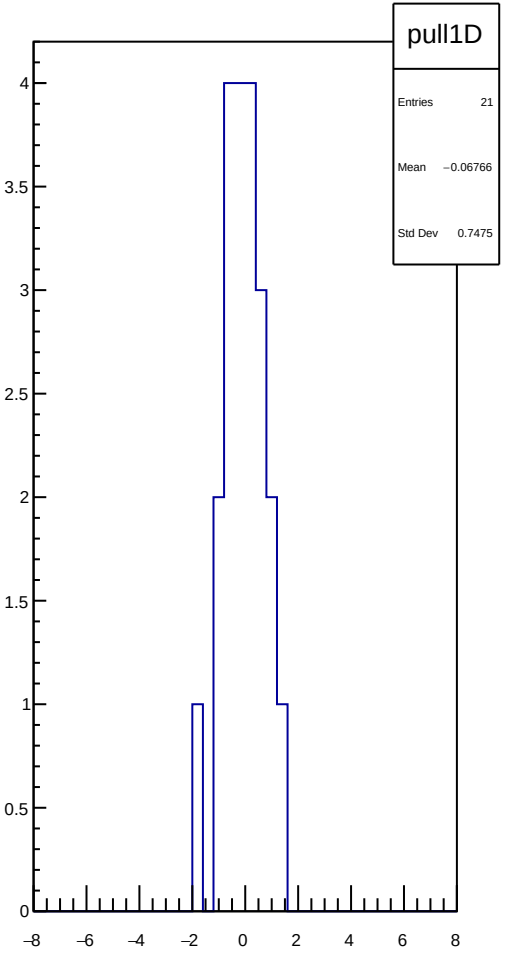

asym_atr_avg_correction_rms vs run
χ² / ndf 2356 / 20
p0 8203 ± 13.22
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

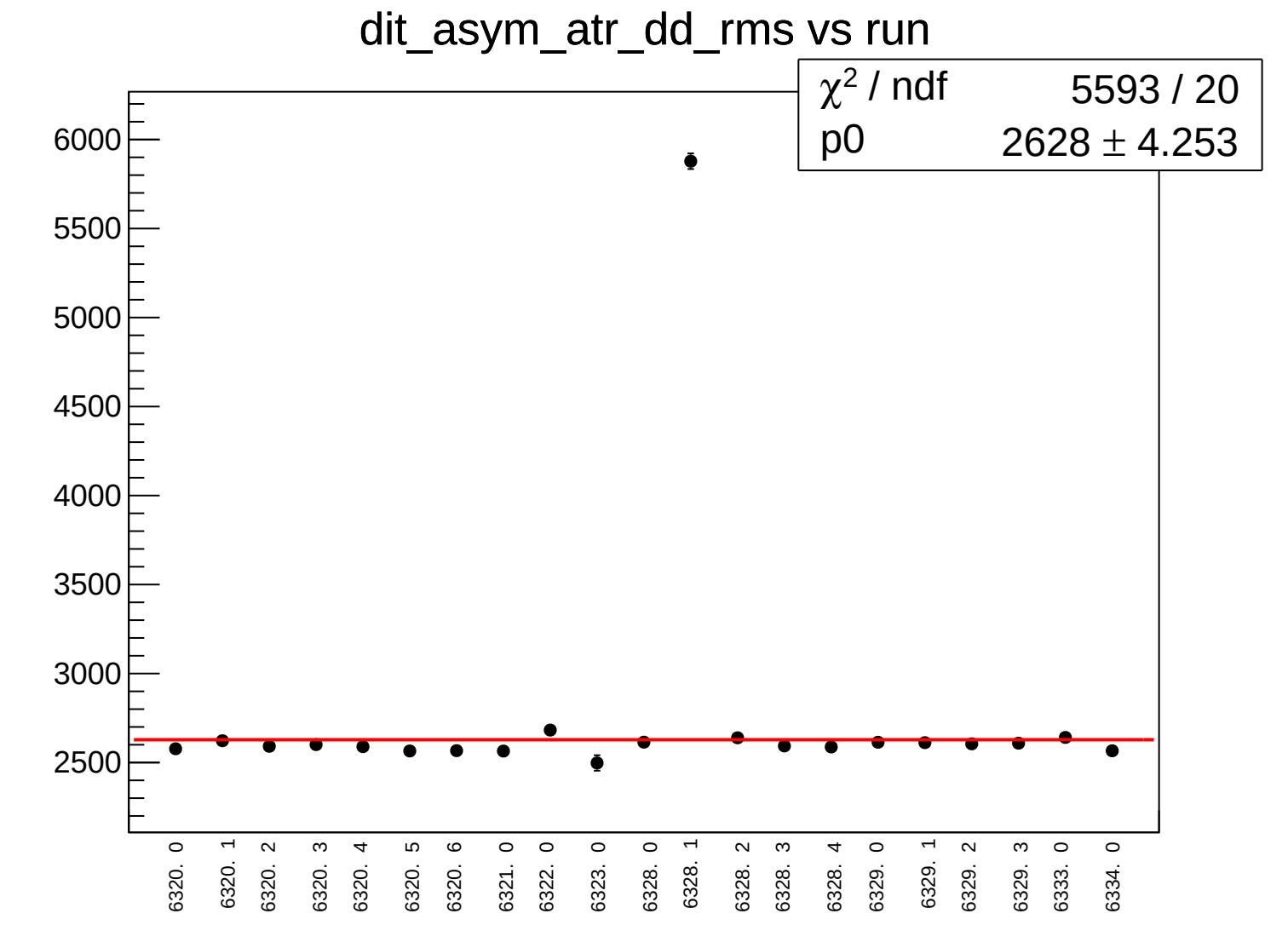

asym_atr_avg_mean vs run
×10^3
χ² / ndf 18.82 / 20
p0 1.021e+04 ± 1.94e+04
500
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 55.6
Std Dev 49.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

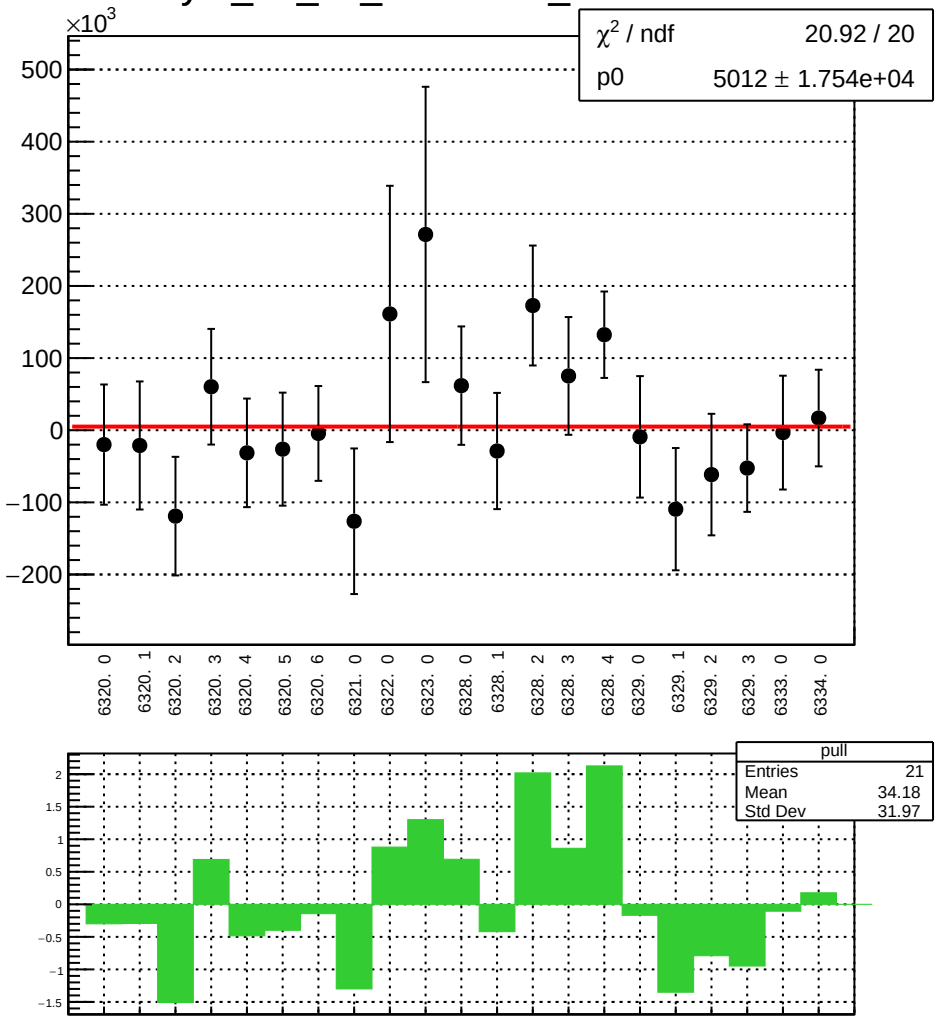

pull1D
Entries 21
Mean 0.01742
Std Dev 0.9466
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

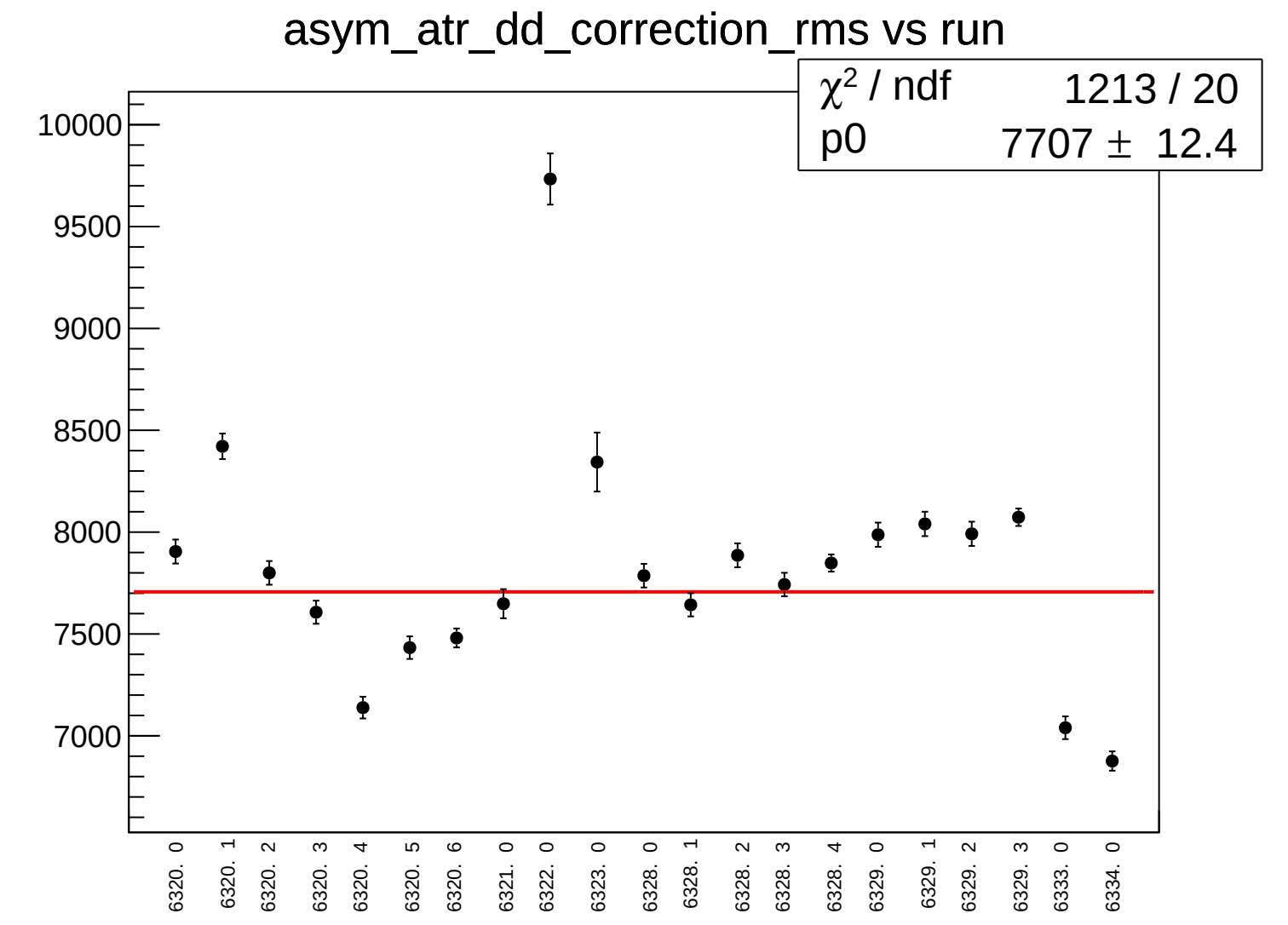

asym_atr_avg_rms vs run
χ^2 / ndf 3944 / 20
p0 8498 ± 13.72
10500
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

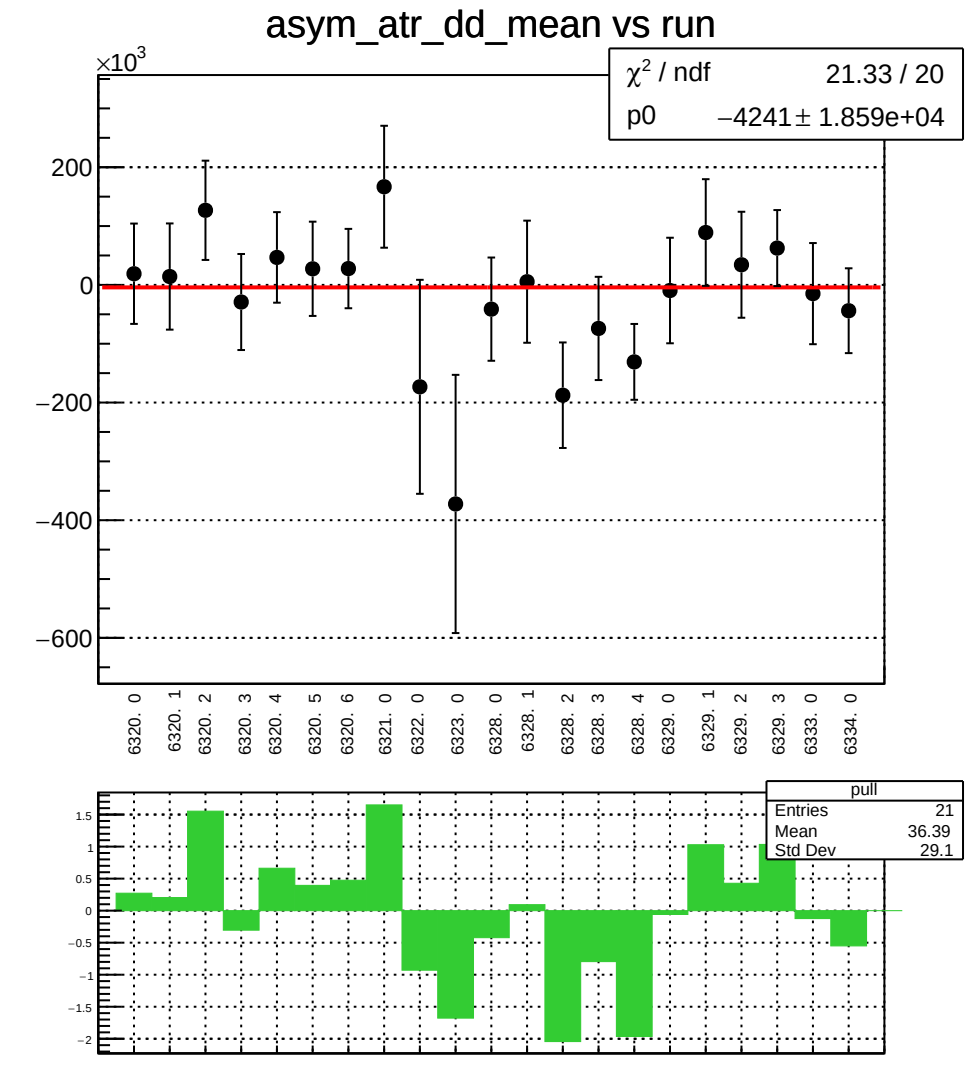

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 11.83 / 20
p0 −174.1± 6014
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 41.99
Std Dev 30.16
1
0.5
0
−0.5
−1
−1.5

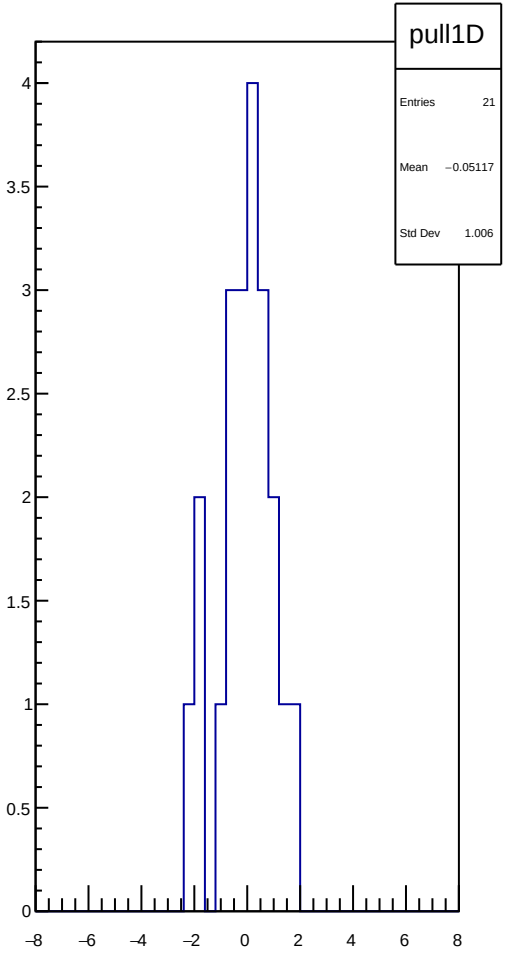

pull1D
Entries 21
Mean −0.06766
Std Dev 0.7475
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

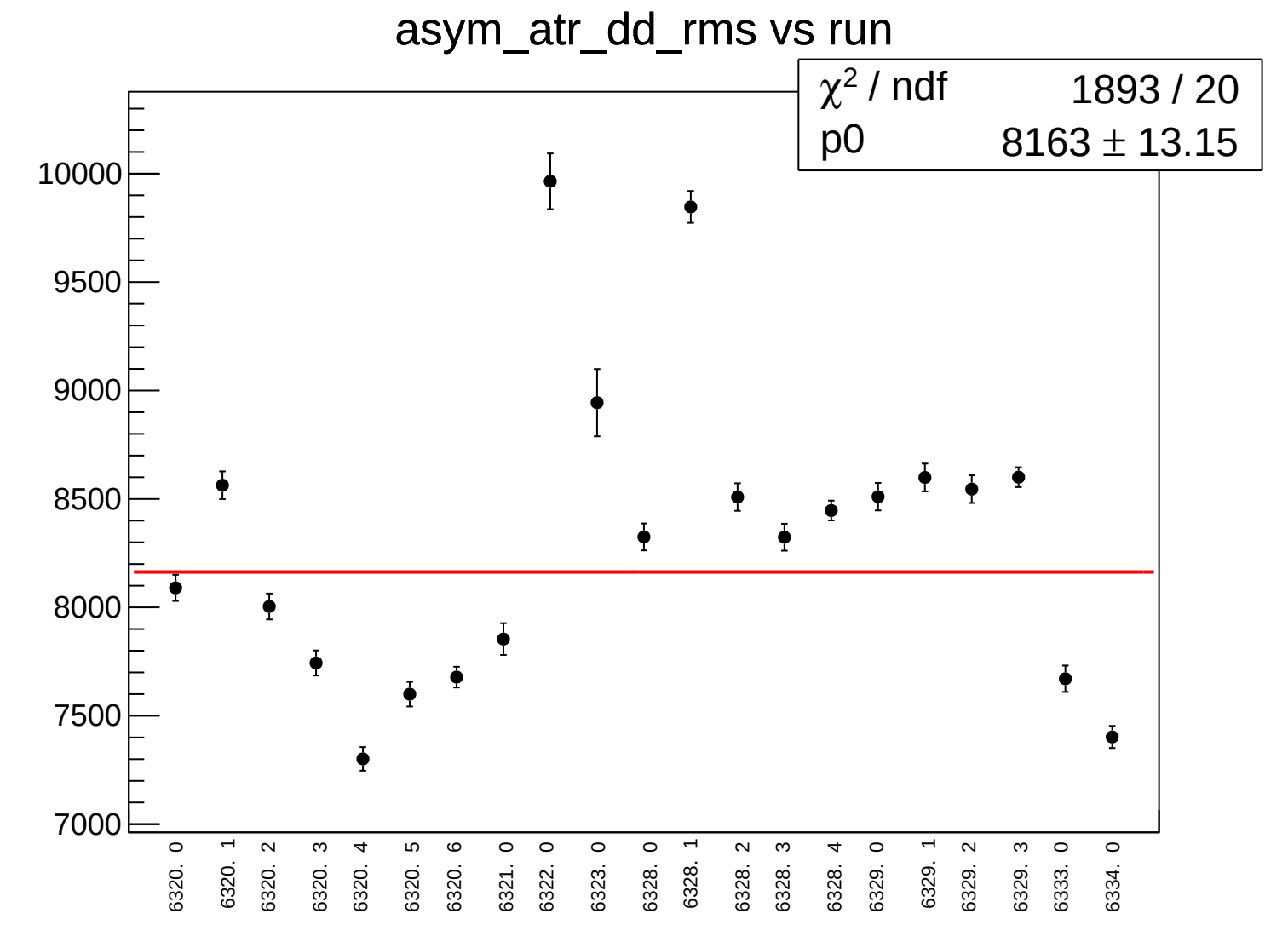

dit_asym_atr_dd_rms vs run
χ² / ndf 5593 / 20
p0 2628 ± 4.253
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

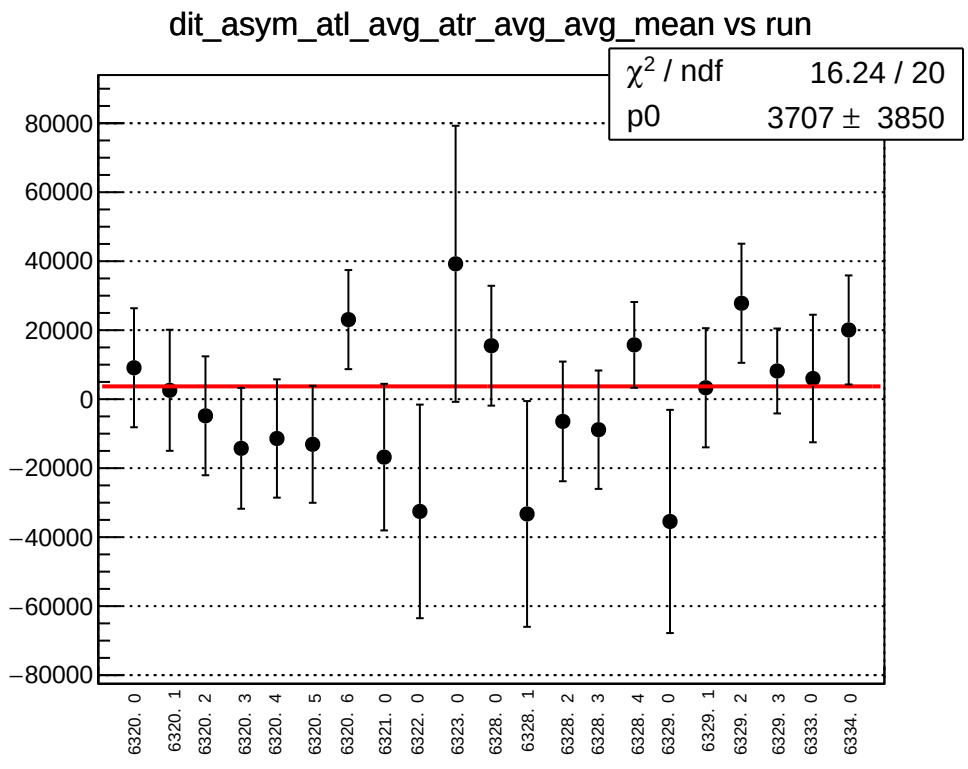

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 20.92 / 20
p0 5012 ± 1.754e+04
500
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 34.18
Std Dev 31.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.02549
Std Dev 0.9977
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

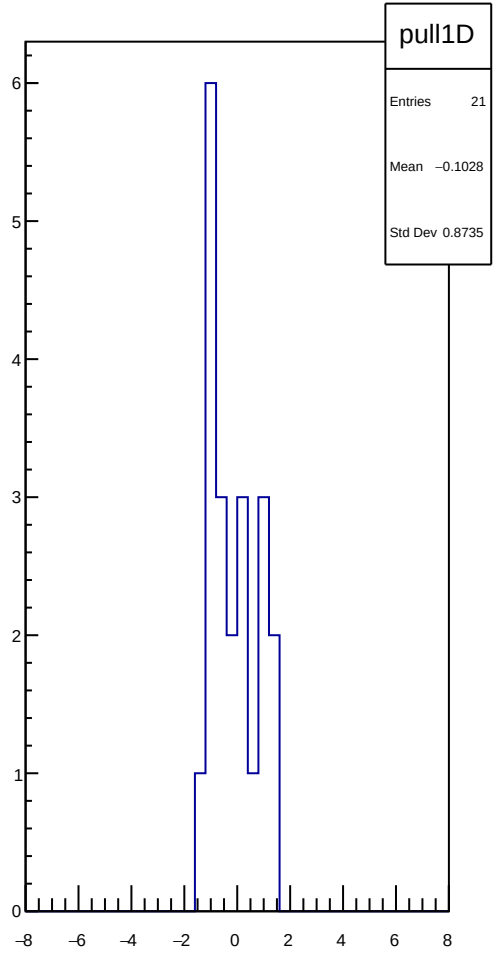

asym_atr_dd_correction_rms vs run
χ² / ndf 1213 / 20
p0 7707 ± 12.4
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

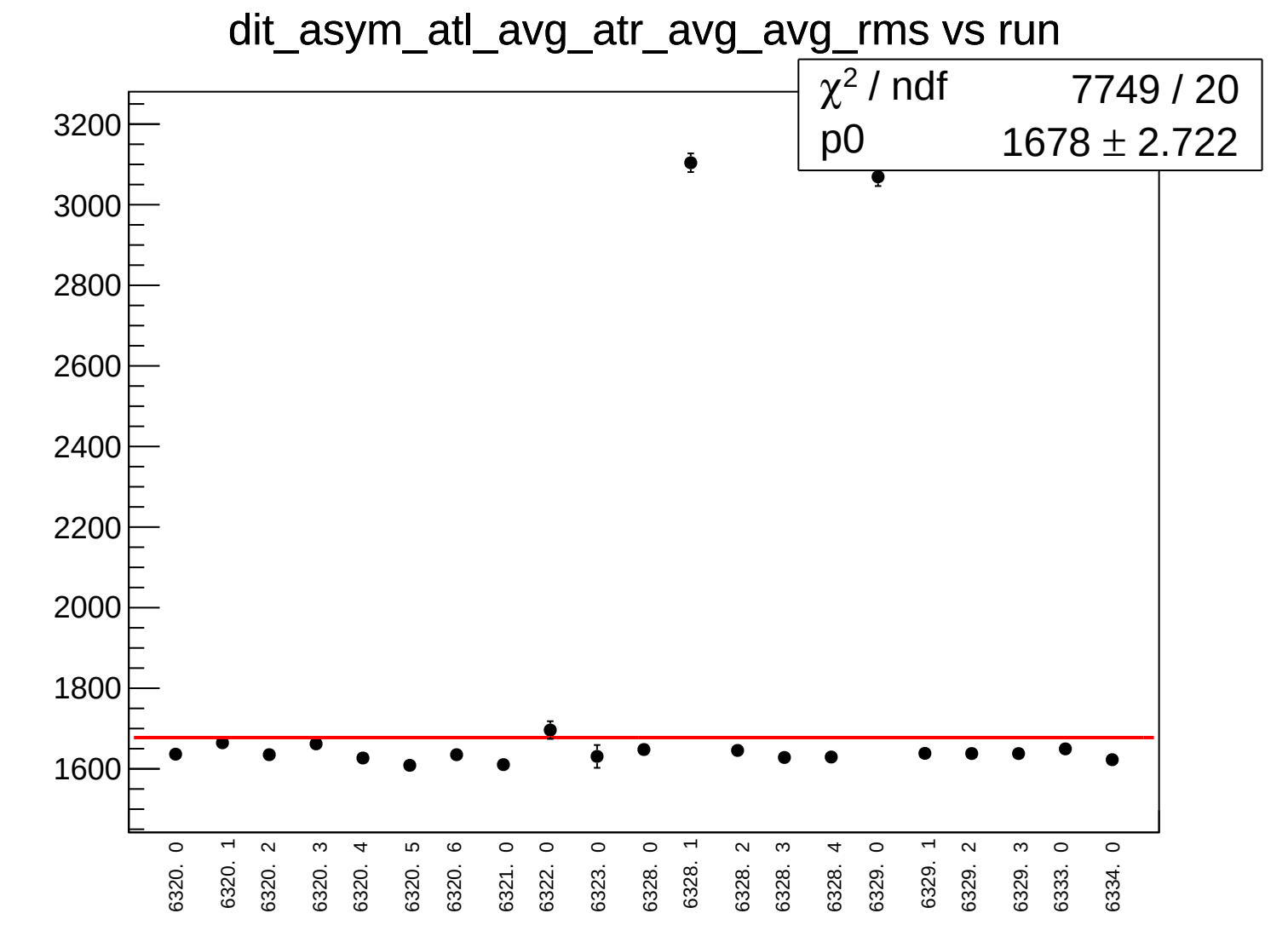

asym_atr_dd_mean vs run
×10^3
χ² / ndf 21.33 / 20
p0 −4241 ± 1.859e+04
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 36.39
Std Dev 29.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

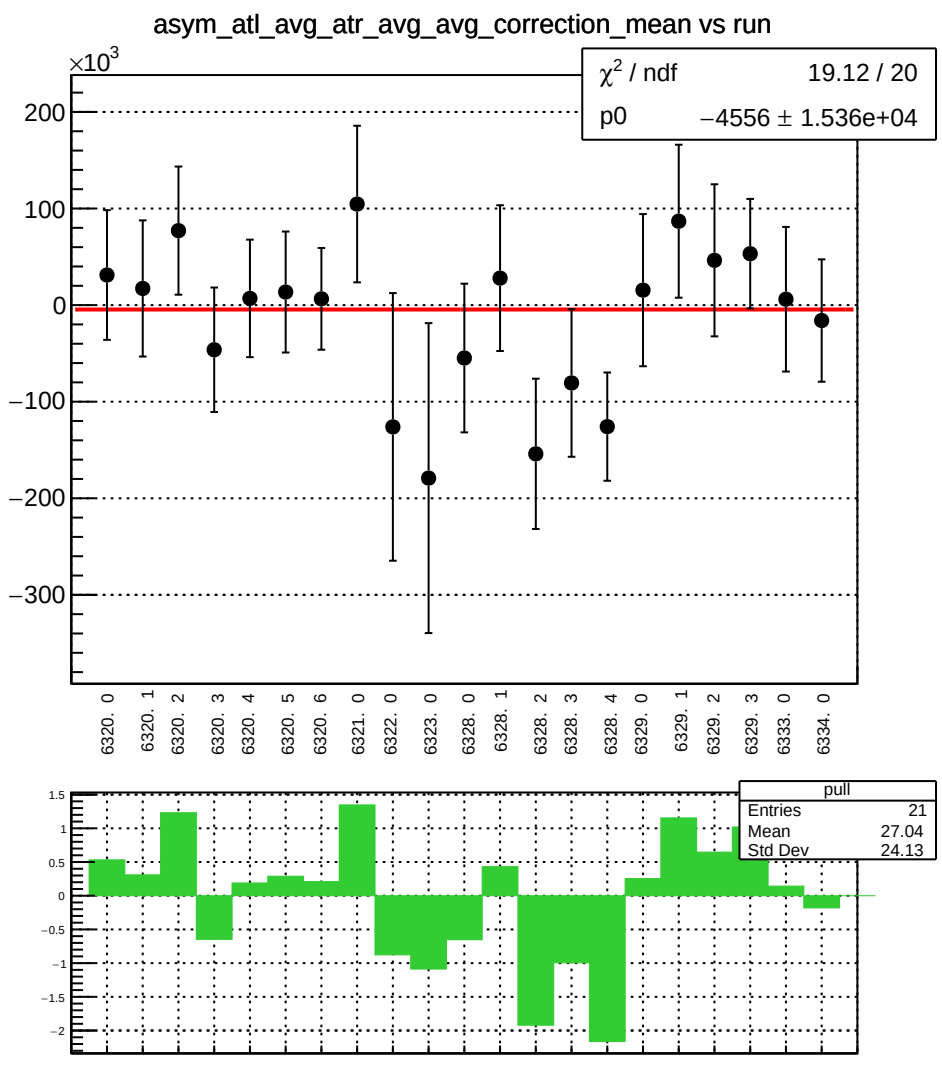

pull1D
Entries 21
Mean −0.05117
Std Dev 1.006
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

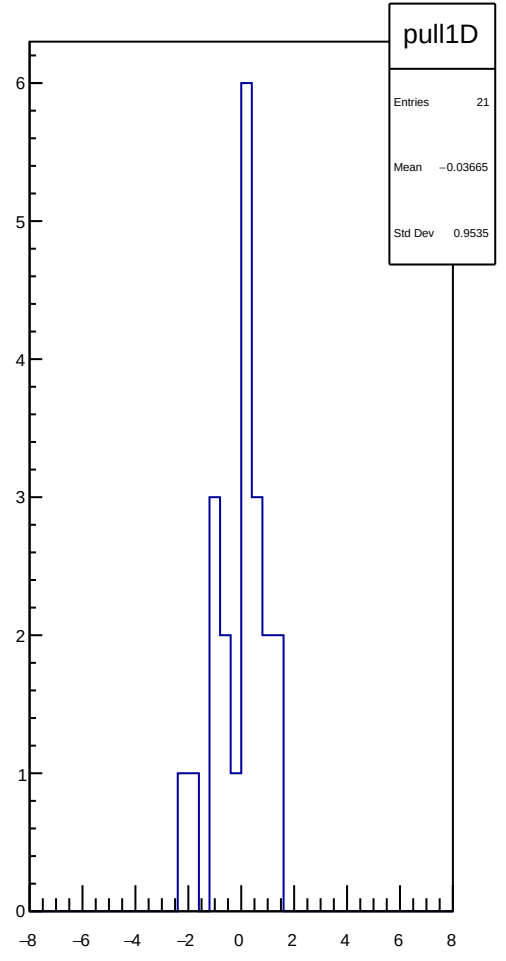

asym_atr_dd_rms vs run
χ² / ndf 1893 / 20
p0 8163 ± 13.15
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

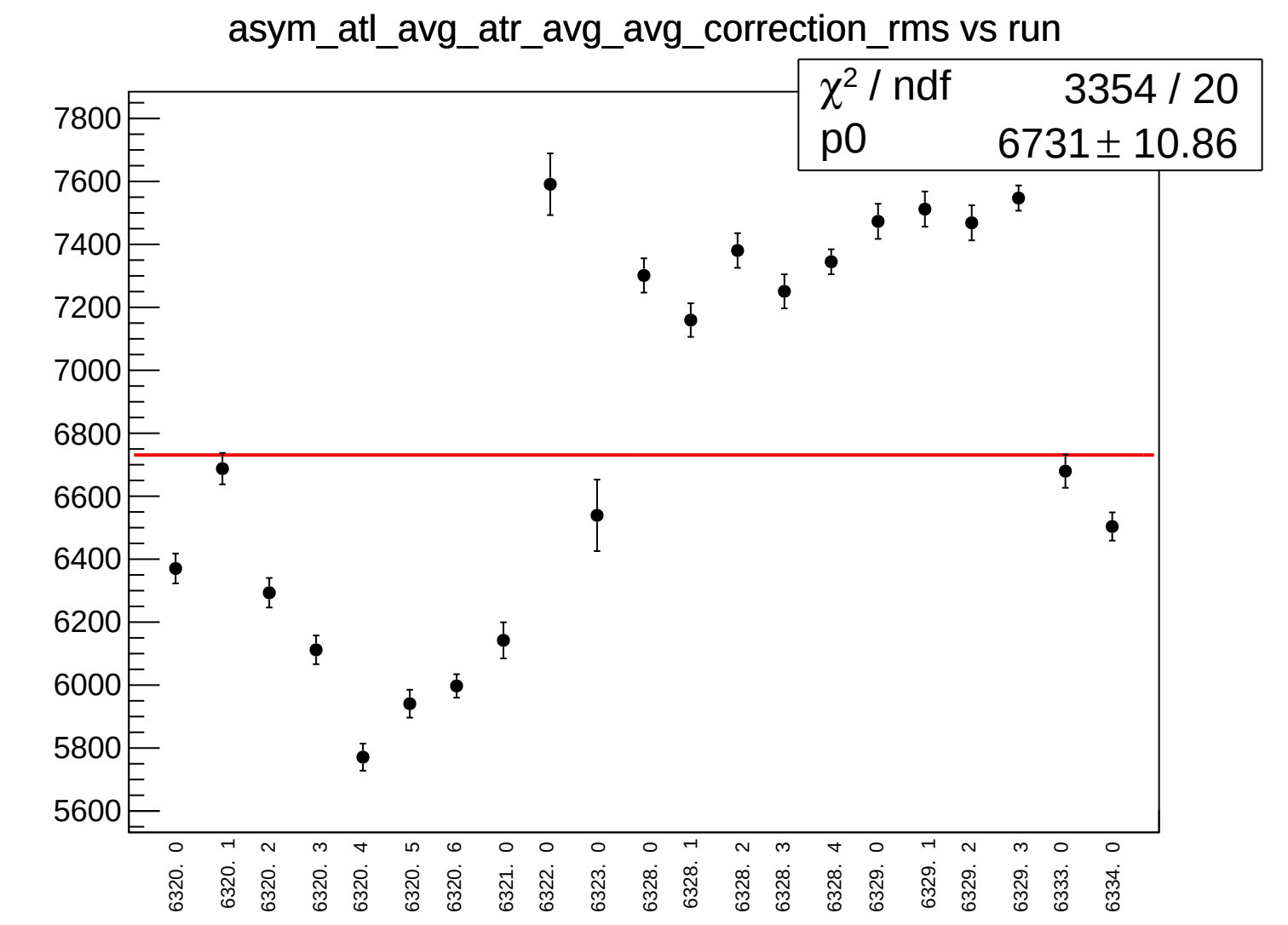

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 16.24 / 20
p0 3707 ± 3850
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.75
Std Dev 17.3
1.5
1
0.5
0
−0.5
−1

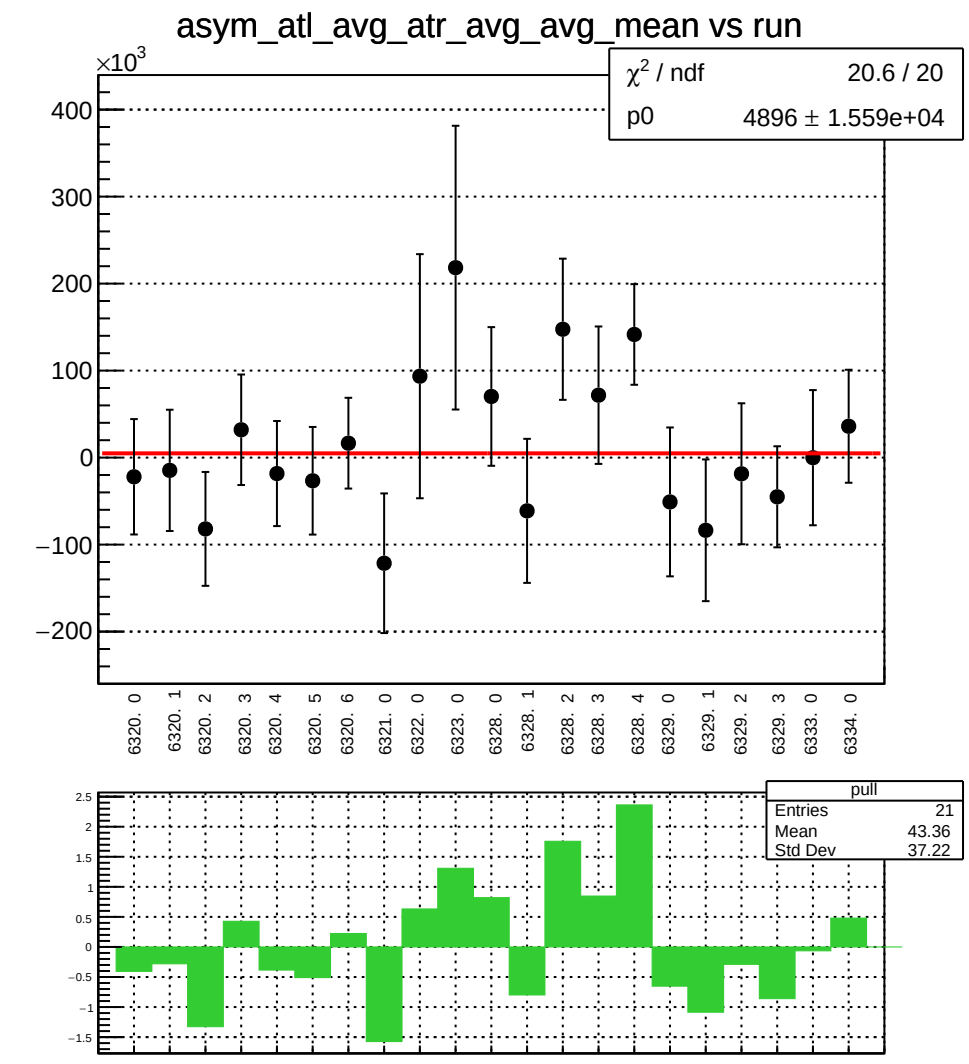

pull1D
Entries 21
Mean −0.1028
Std Dev 0.8735
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

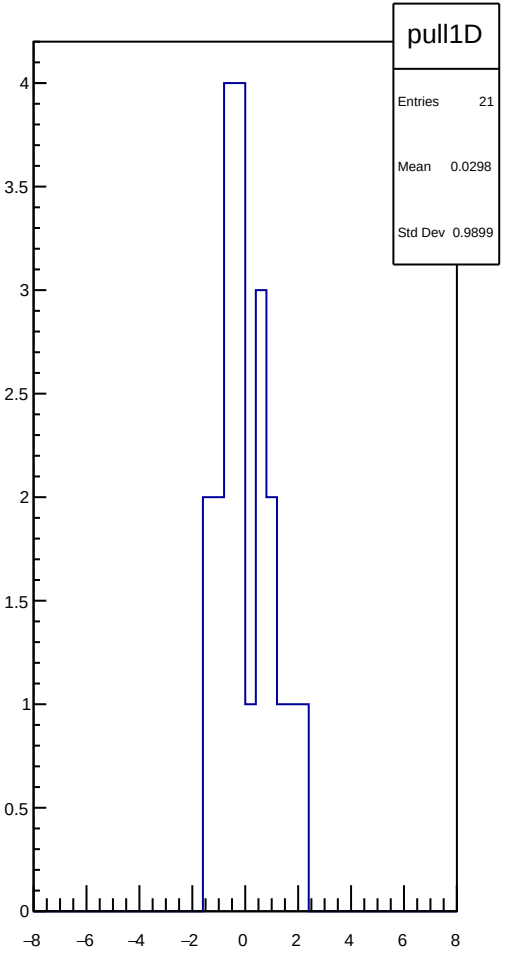

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 7749 / 20
p0 1678 ± 2.722
3200
3000
2800
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

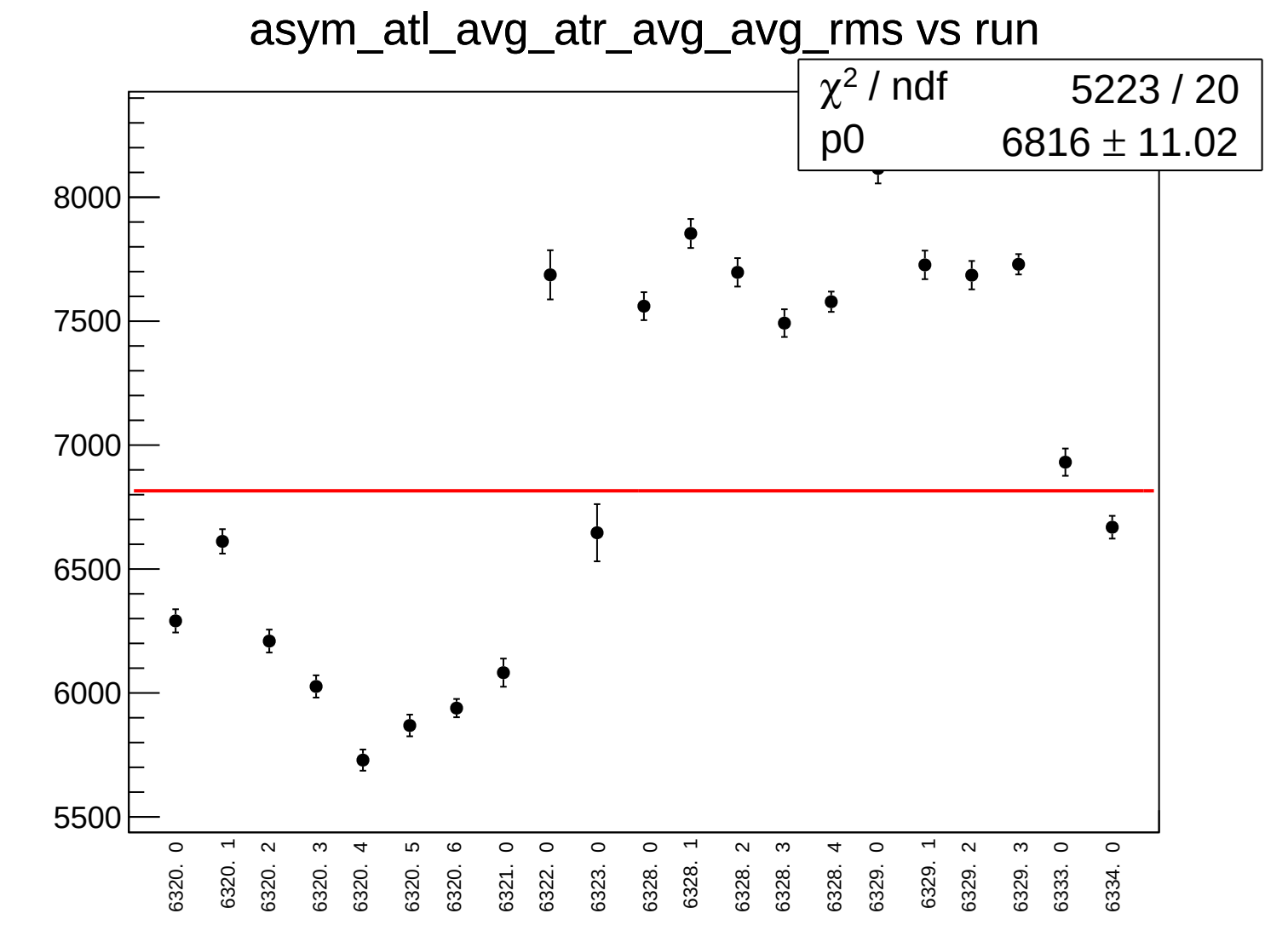

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 19.12 / 20
p0 −4556 ± 1.536e+04
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.04
Std Dev 24.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2

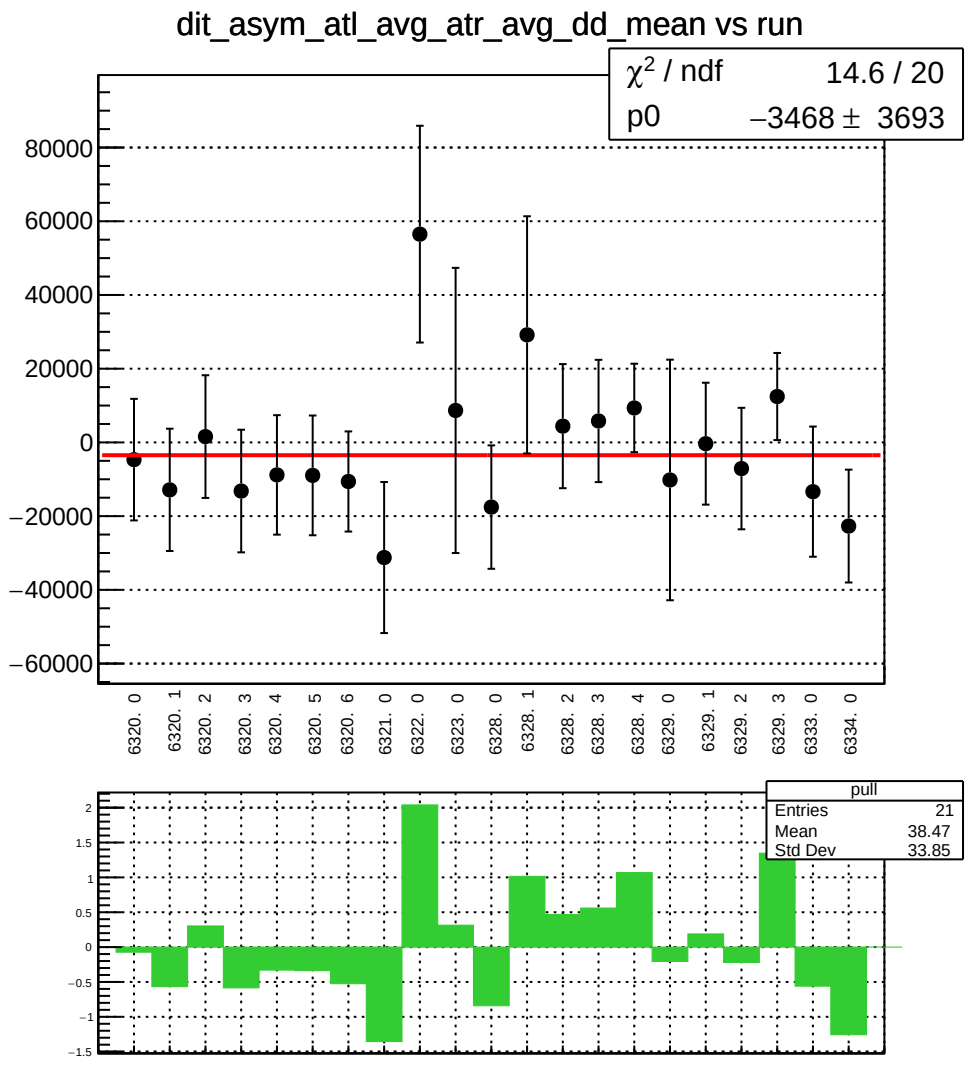

pull1D
Entries 21
Mean −0.03665
Std Dev 0.9535
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

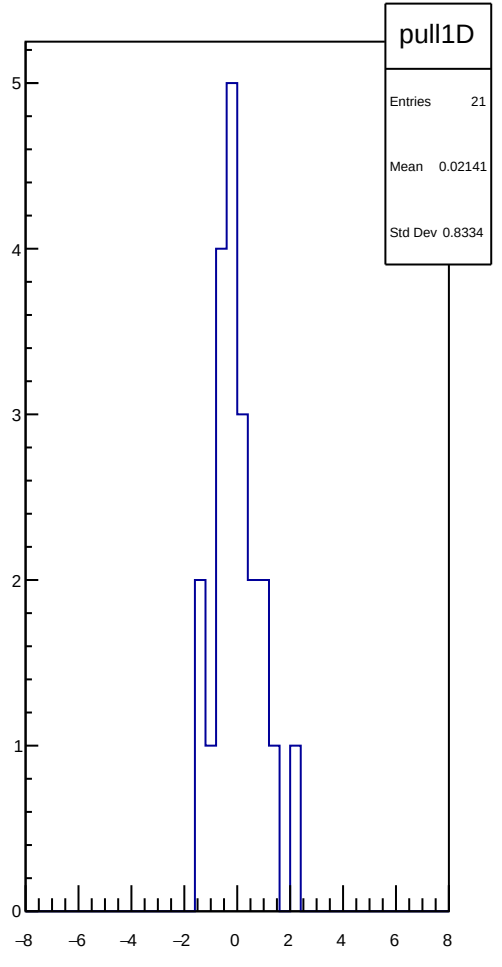

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 3354 / 20
p0 6731 ± 10.86
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

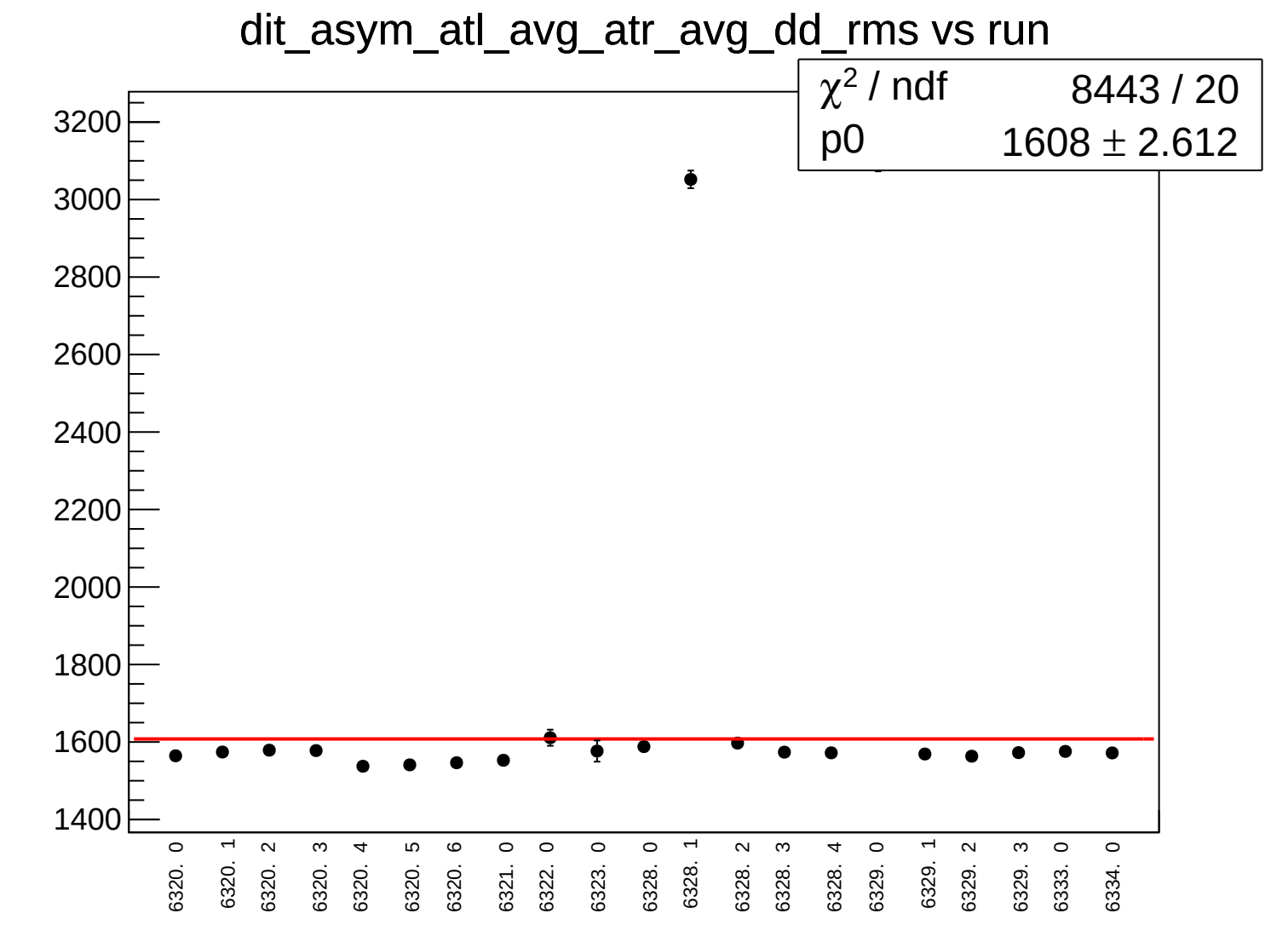

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 20.6 / 20
p0 4896 ± 1.559e+04
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 43.36
Std Dev 37.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

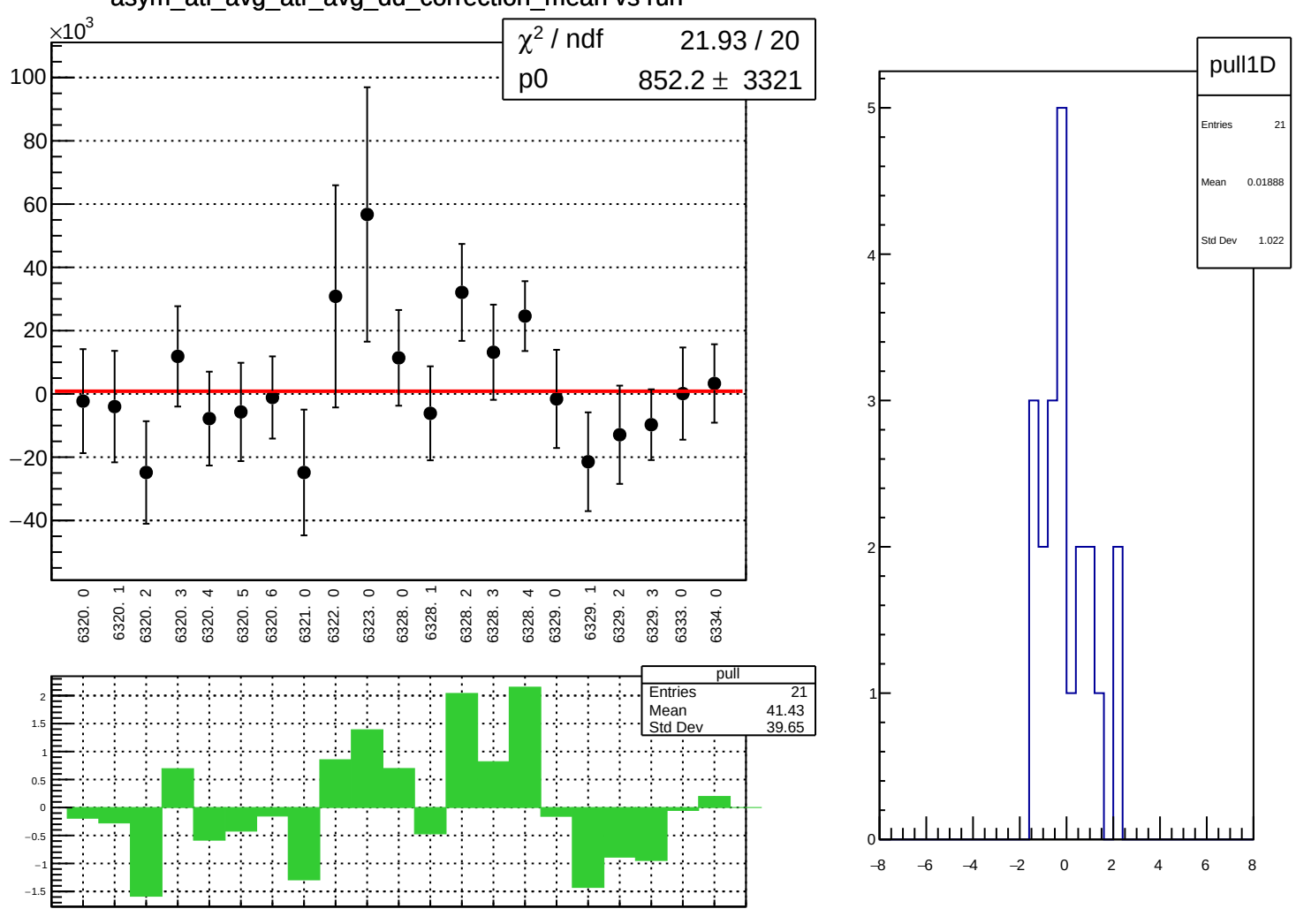

pull1D
Entries 21
Mean 0.0298
Std Dev 0.9899
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

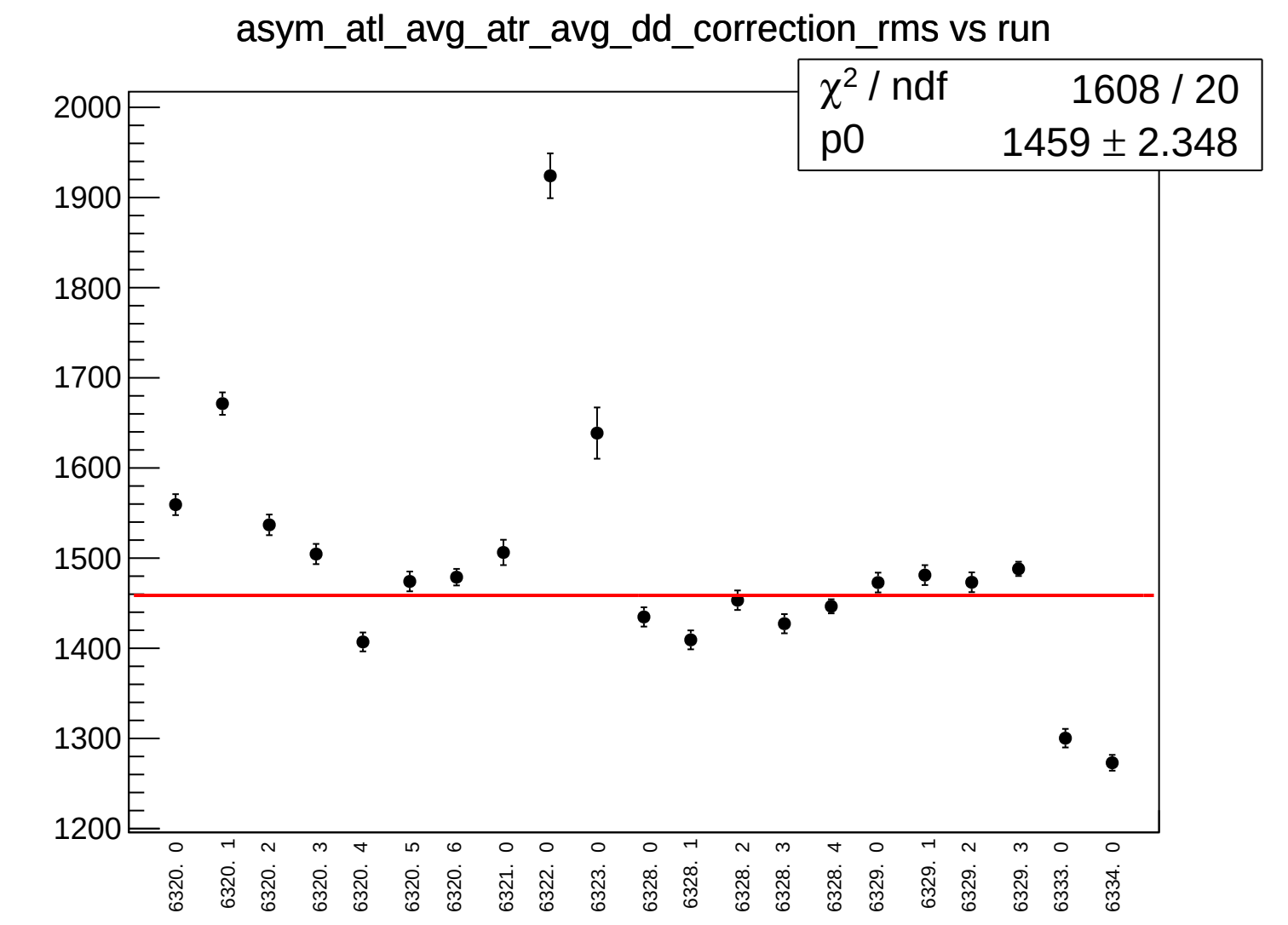

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5223 / 20
p0 6816 ± 11.02
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

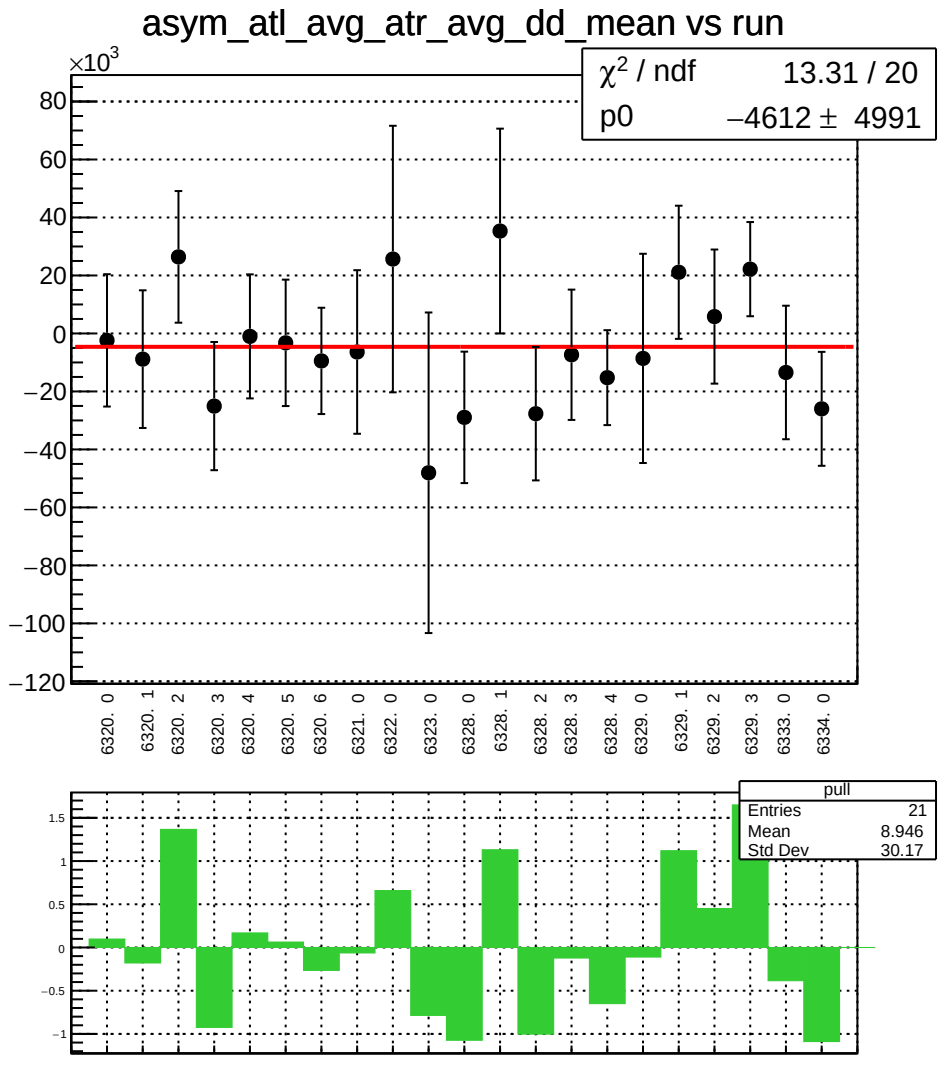

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 14.6 / 20
p0 −3468 ± 3693
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.47
Std Dev 33.85
2
1.5
1
0.5
0
−0.5
−1
−1.5

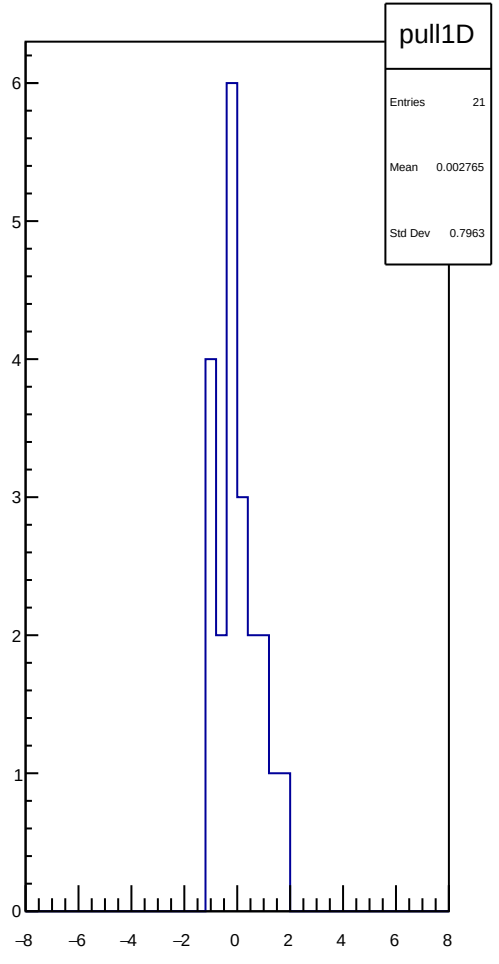

pull1D
Entries 21
Mean 0.02141
Std Dev 0.8334
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

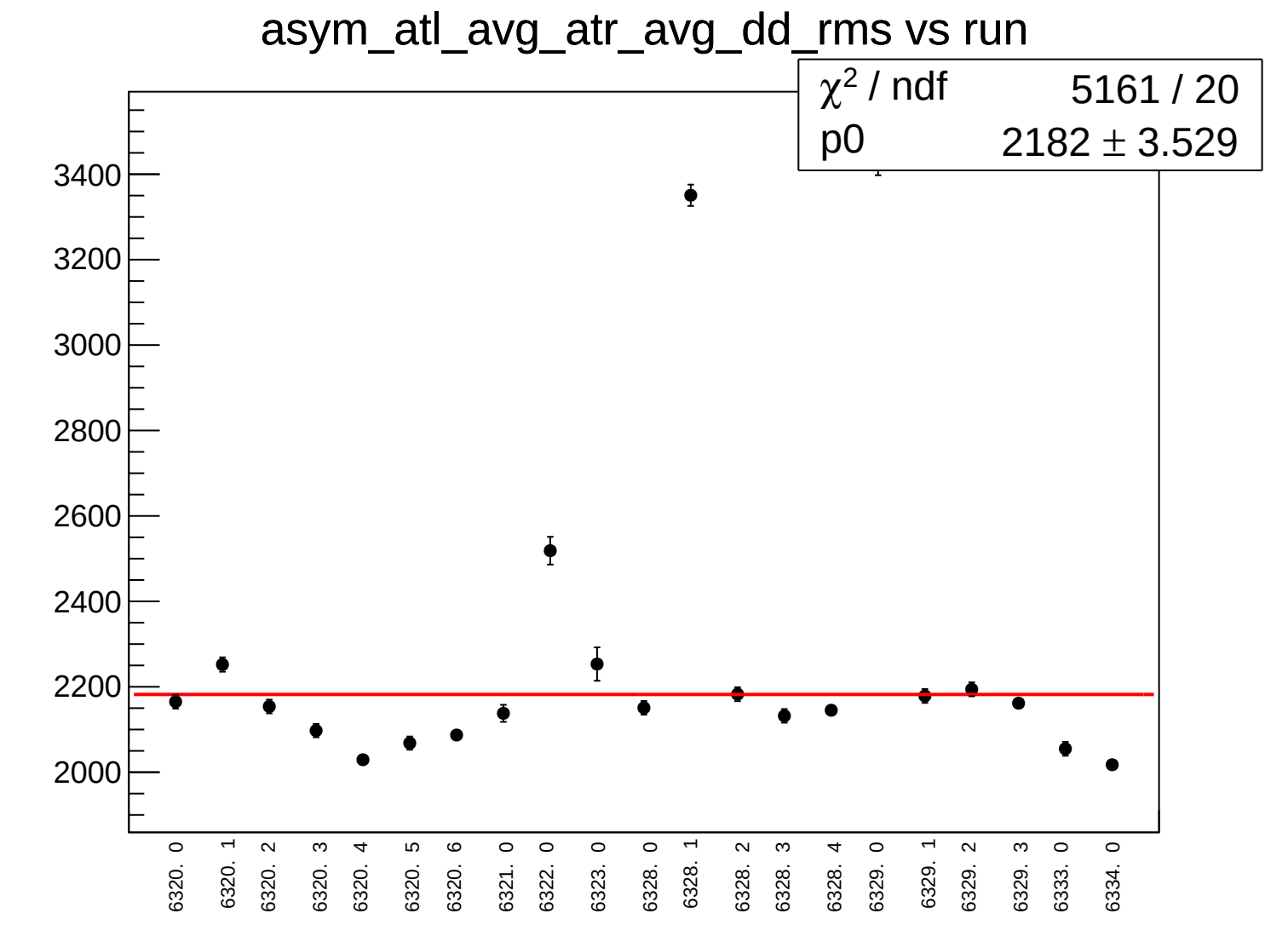

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 8443 / 20
p0 1608 ± 2.612
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

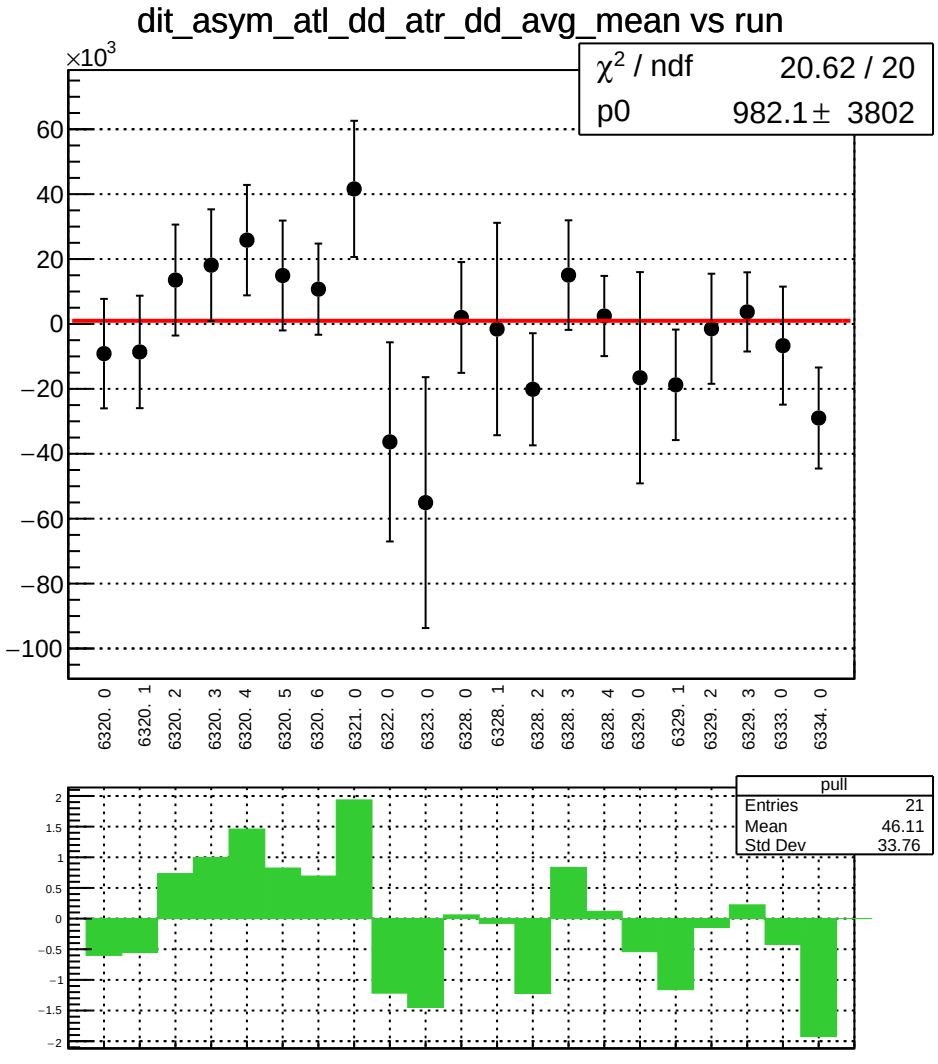

asym_atl_avg_atr_avg_dd_correction_mean vs run
×10^3
χ² / ndf 21.93 / 20
p0 852.2 ± 3321
100
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 41.43
Std Dev 39.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.01888
Std Dev 1.022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

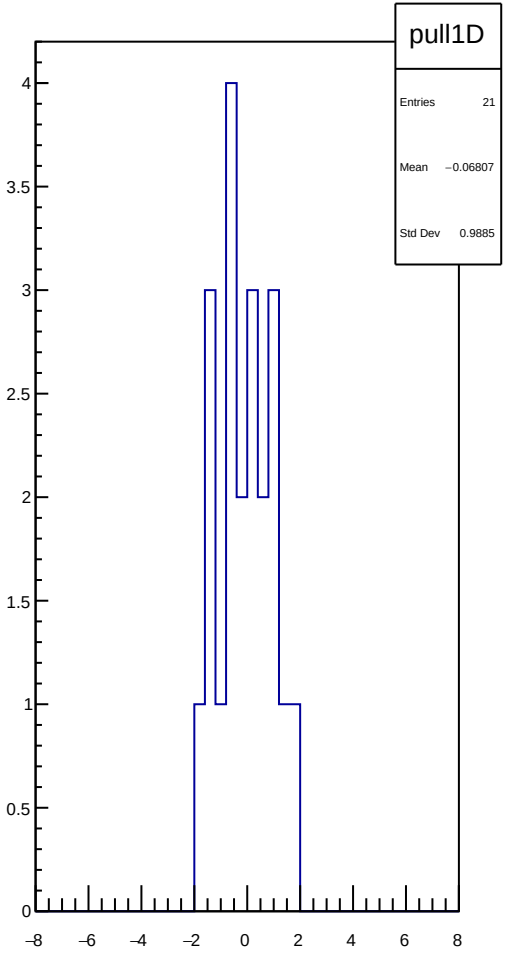

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 1608 / 20
p0 1459 ± 2.348
2000
1900
1800
1700
1600
1500
1400
1300
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

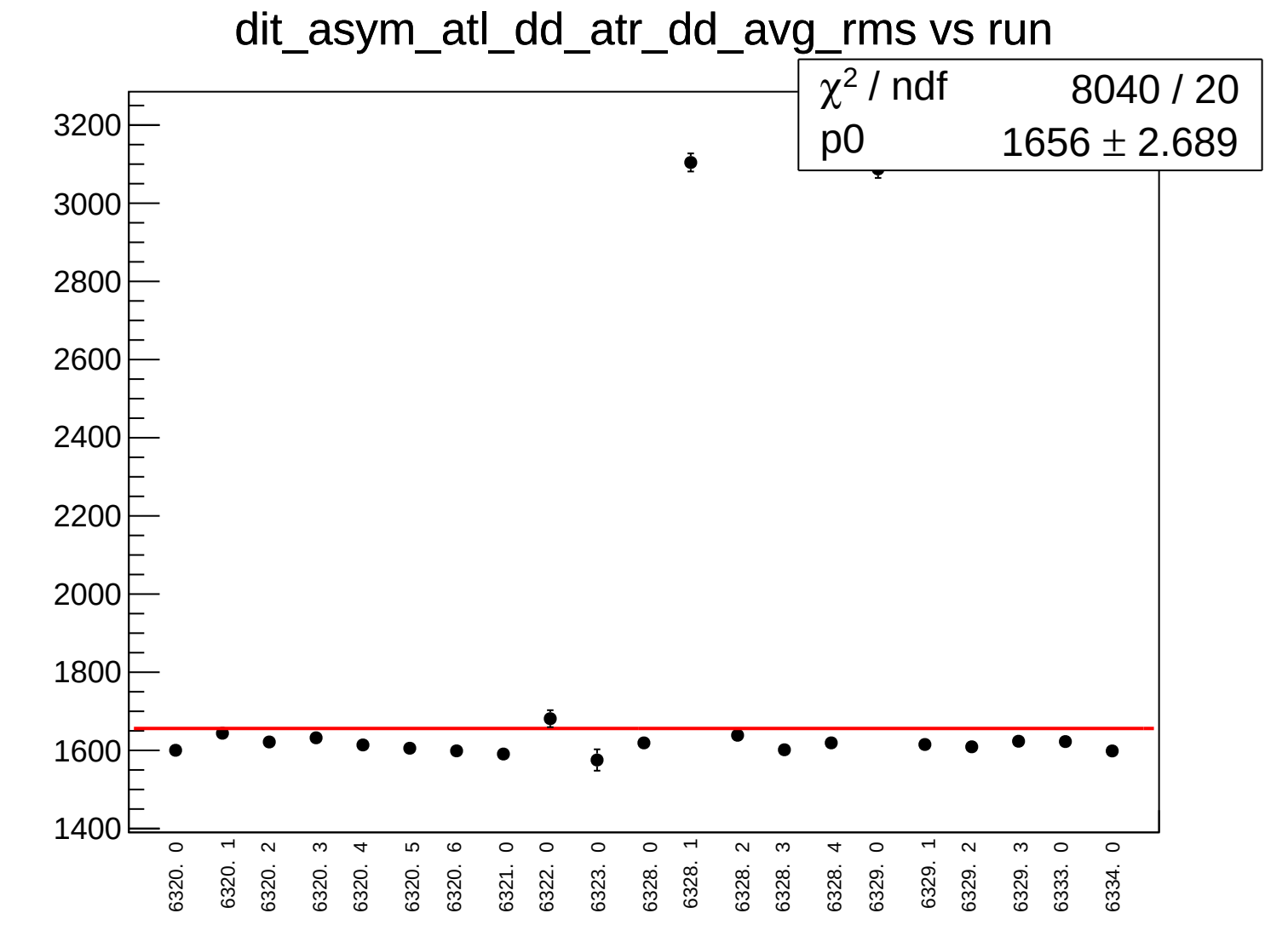

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 13.31 / 20
p0 −4612 ± 4991
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 8.946
Std Dev 30.17
1.5
1
0.5
0
−0.5
−1

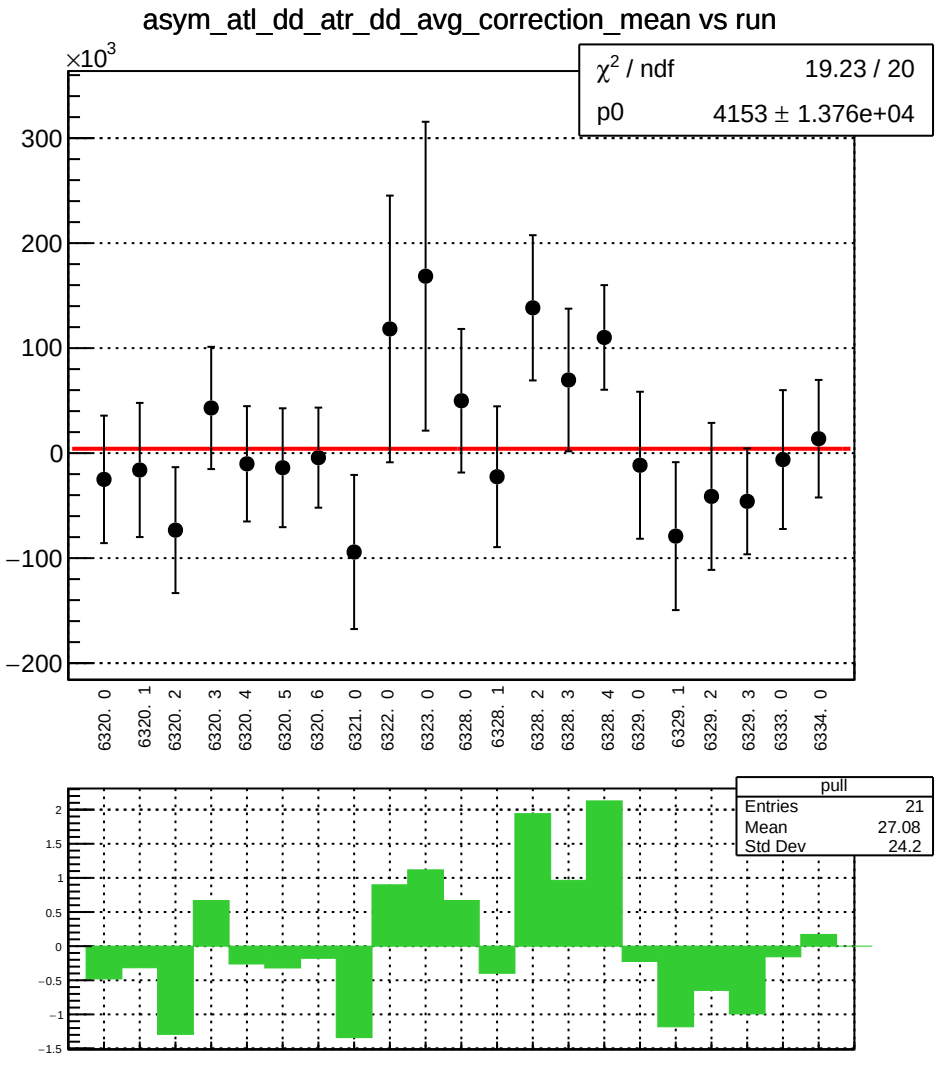

pull1D
Entries 21
Mean 0.002765
Std Dev 0.7963
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

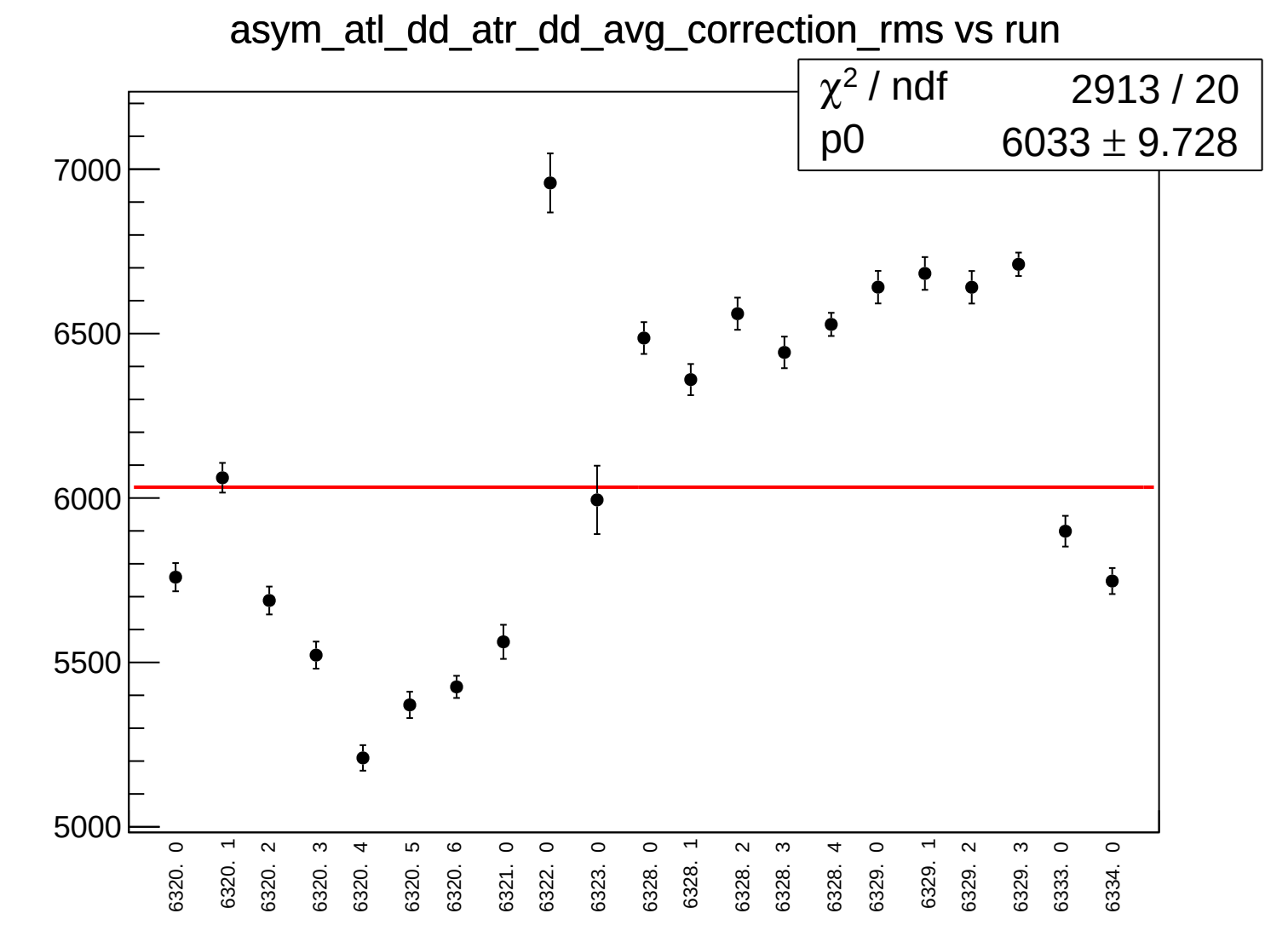

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5161 / 20
p0 2182 ± 3.529
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

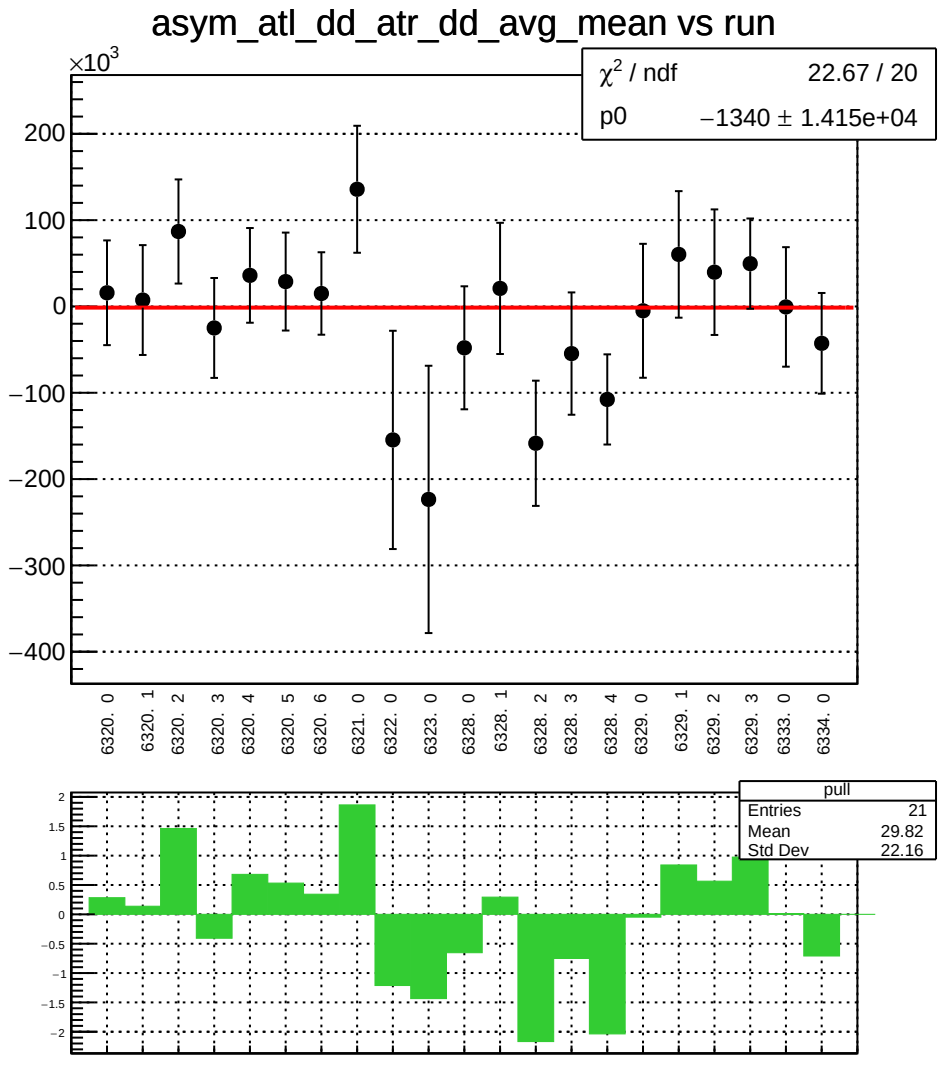

dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 20.62 / 20
p0 982.1 ± 3802
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.11
Std Dev 33.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

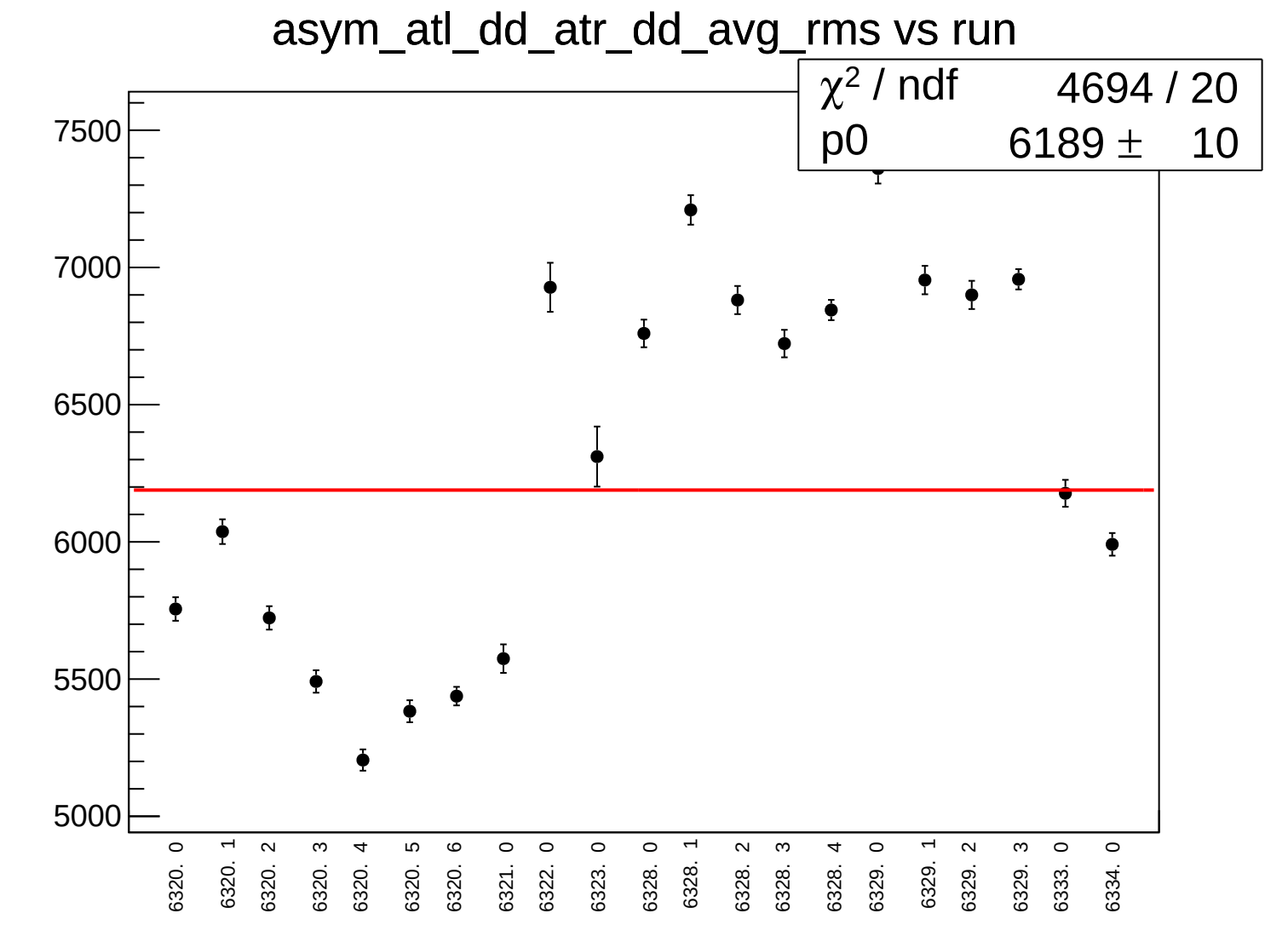

pull1D
Entries 21
Mean −0.06807
Std Dev 0.9885
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

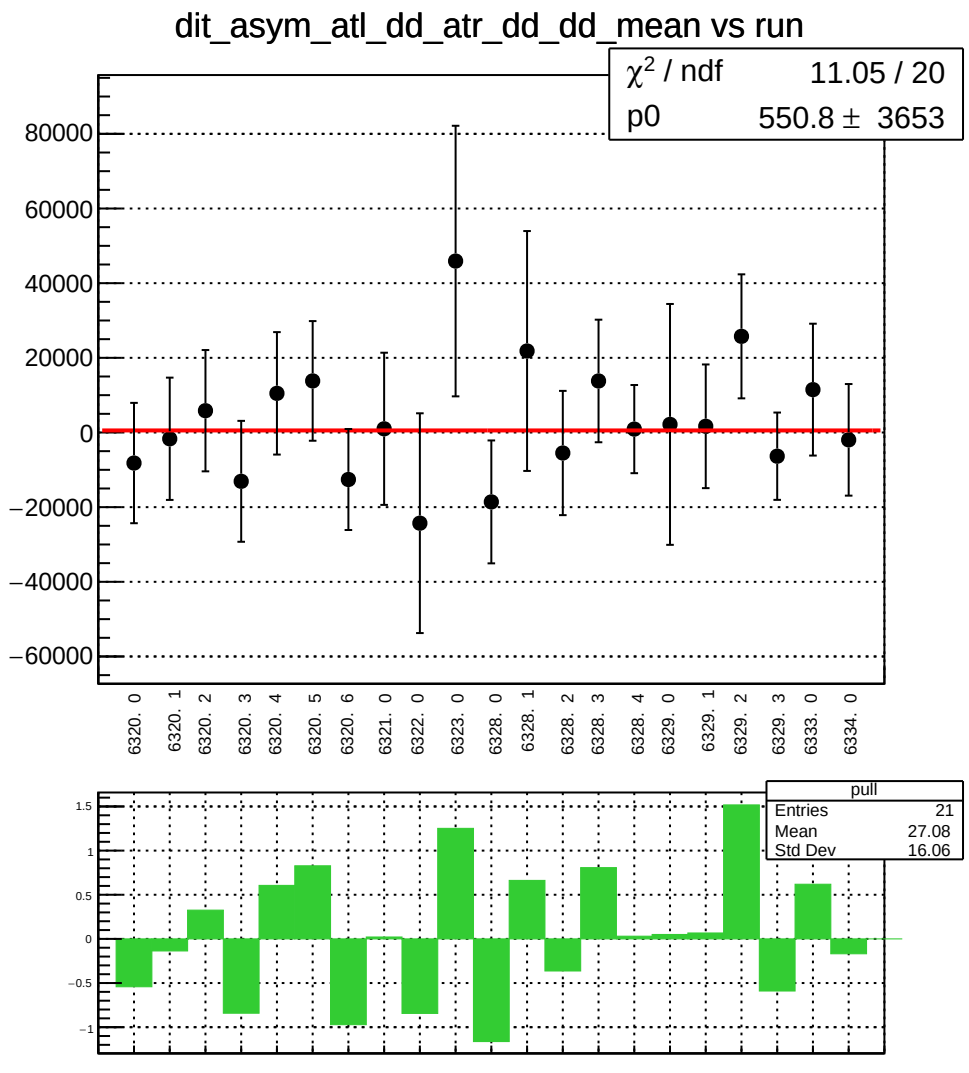

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8040 / 20
p0 1656 ± 2.689
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

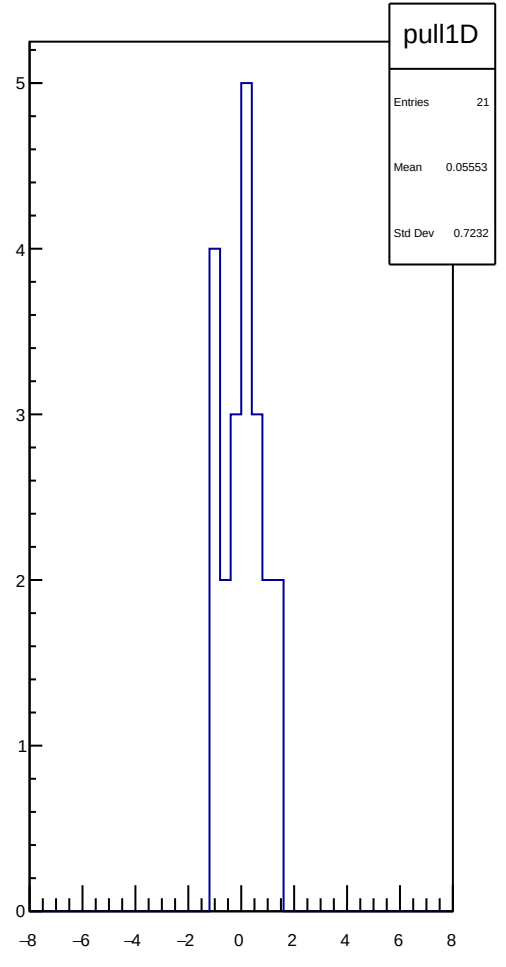

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 19.23 / 20
p0 4153 ± 1.376e+04
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.08
Std Dev 24.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.03677
Std Dev 0.9563
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

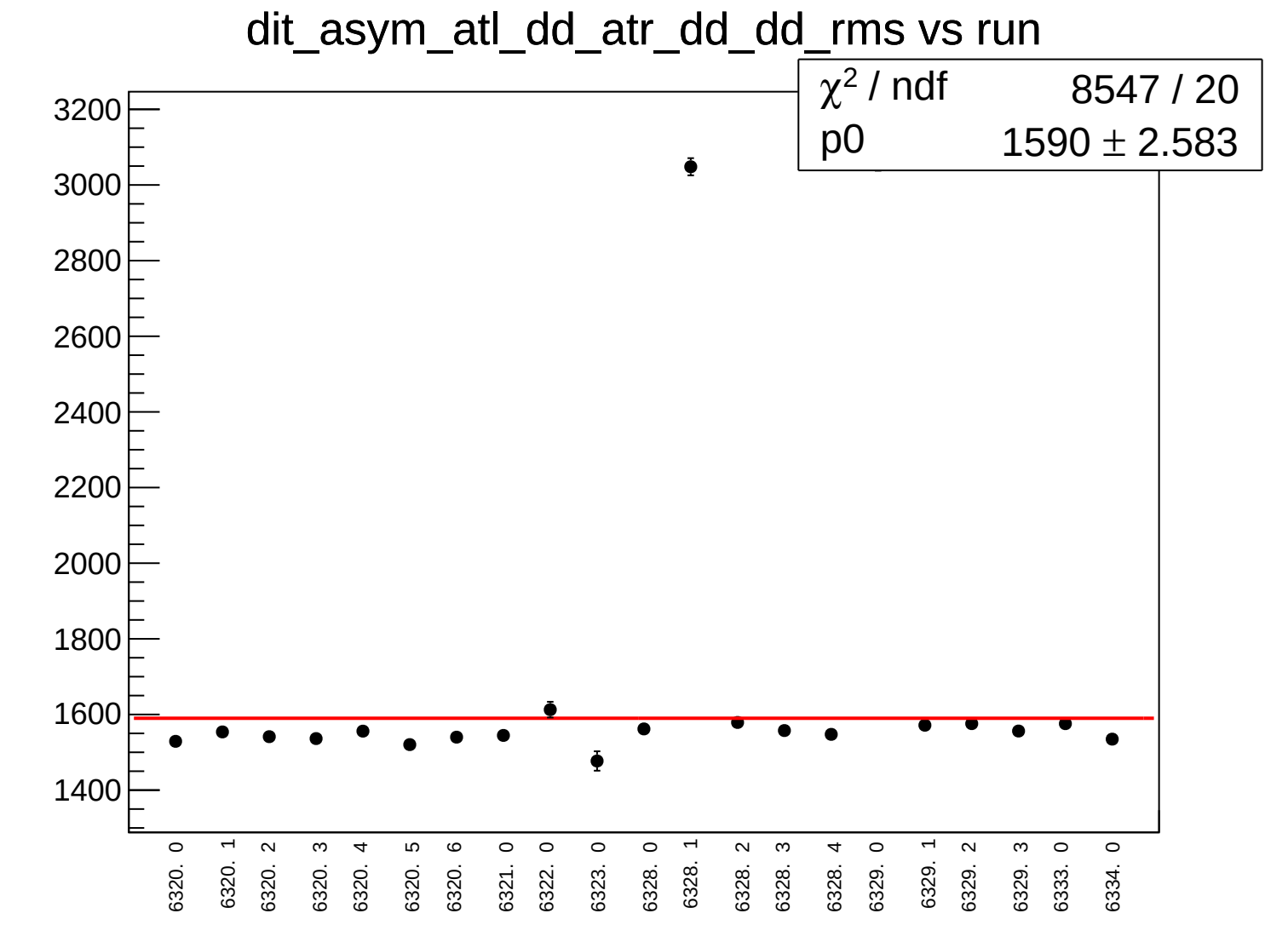

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 2913 / 20
p0 6033 ± 9.728
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

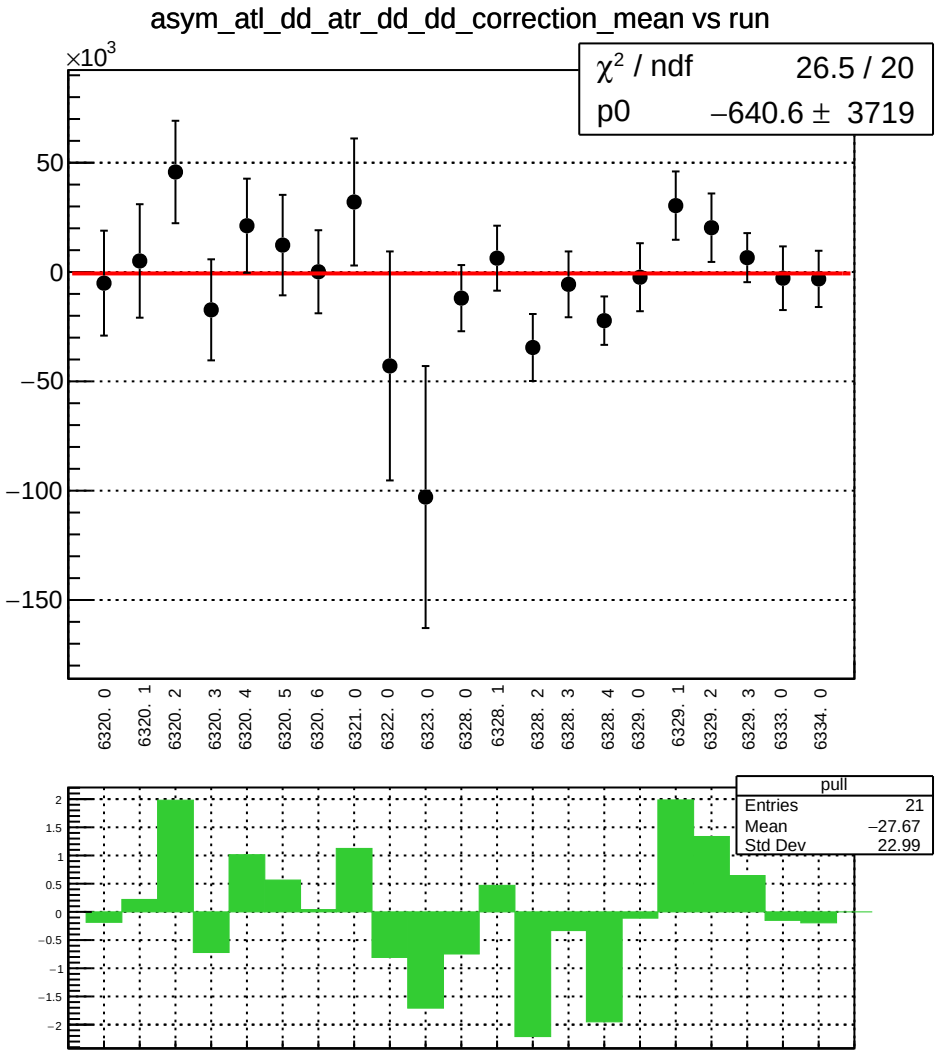

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 22.67 / 20
p0 −1340 ± 1.415e+04
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.82
Std Dev 22.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.06813
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

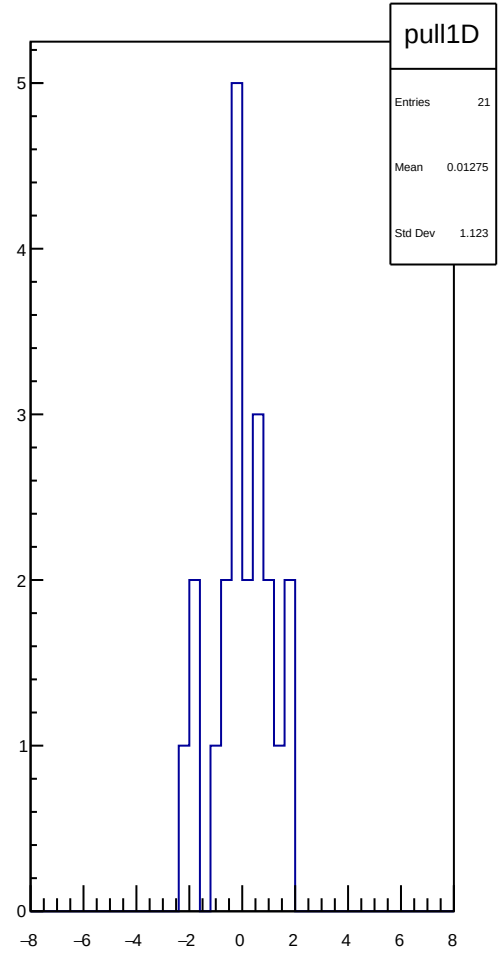

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4694 / 20
p0 6189 ± 10
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

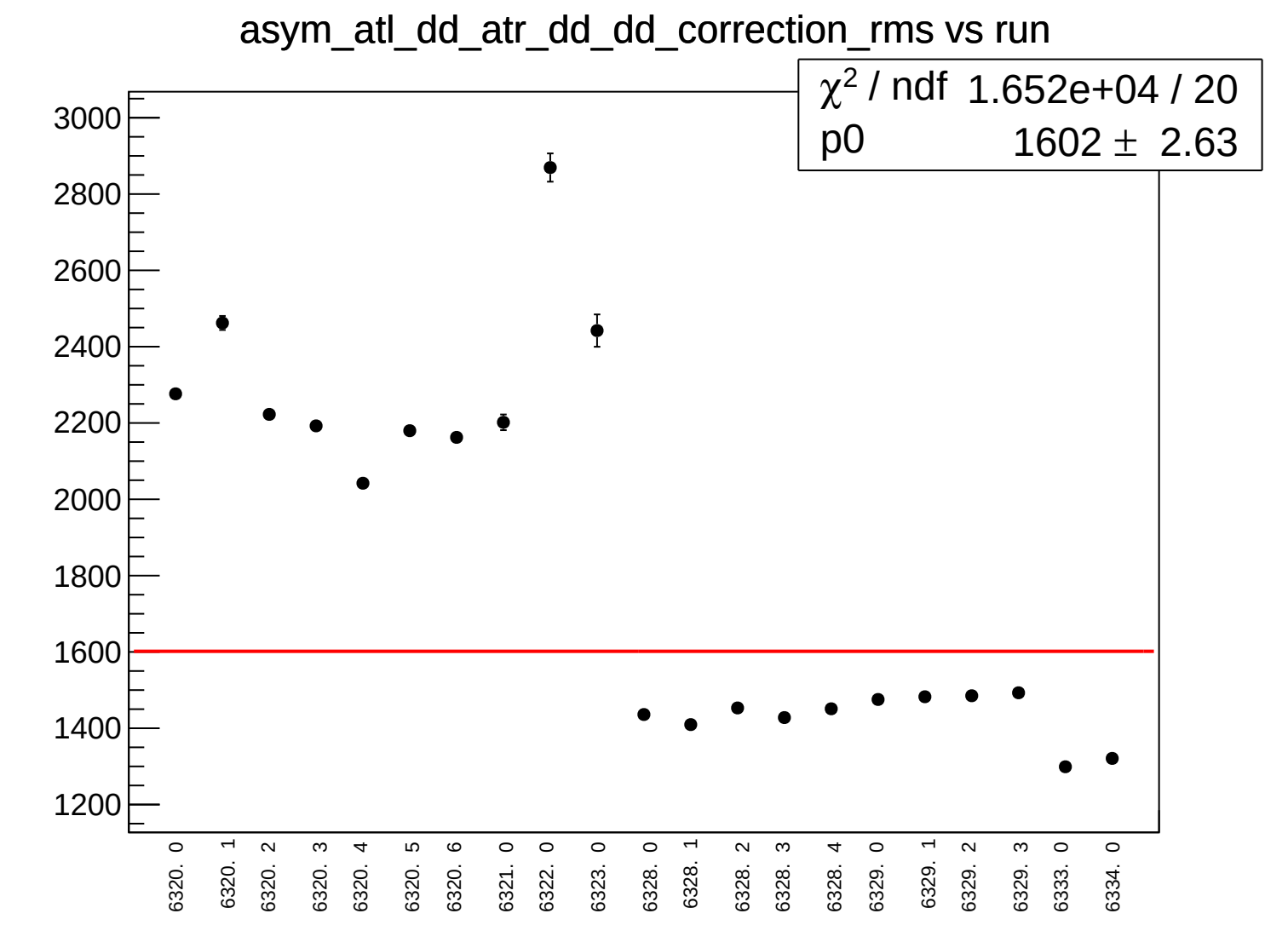

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 11.05 / 20
p0 550.8 ± 3653
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.08
Std Dev 16.06
1.5
1
0.5
0
−0.5
−1

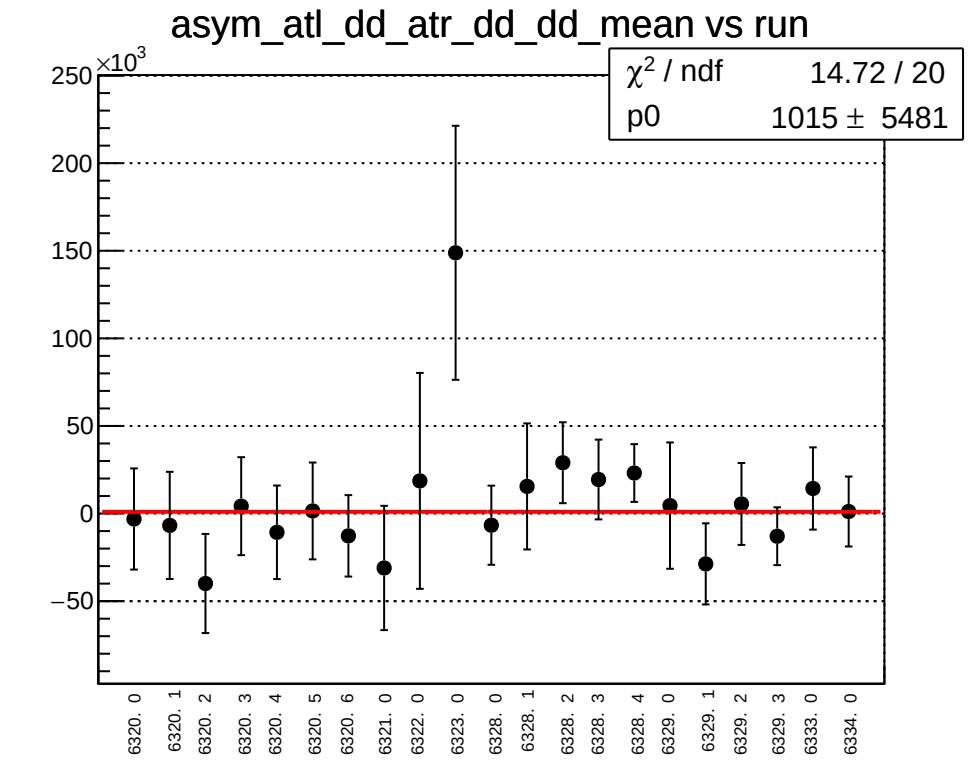

pull1D
Entries 21
Mean 0.05553
Std Dev 0.7232
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

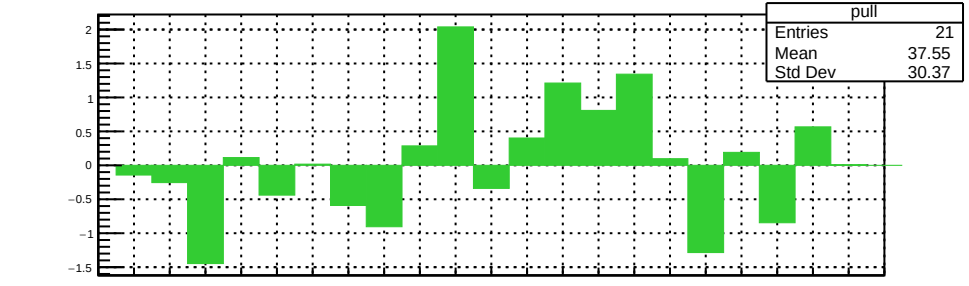

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 8547 / 20
p0 1590 ± 2.583
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

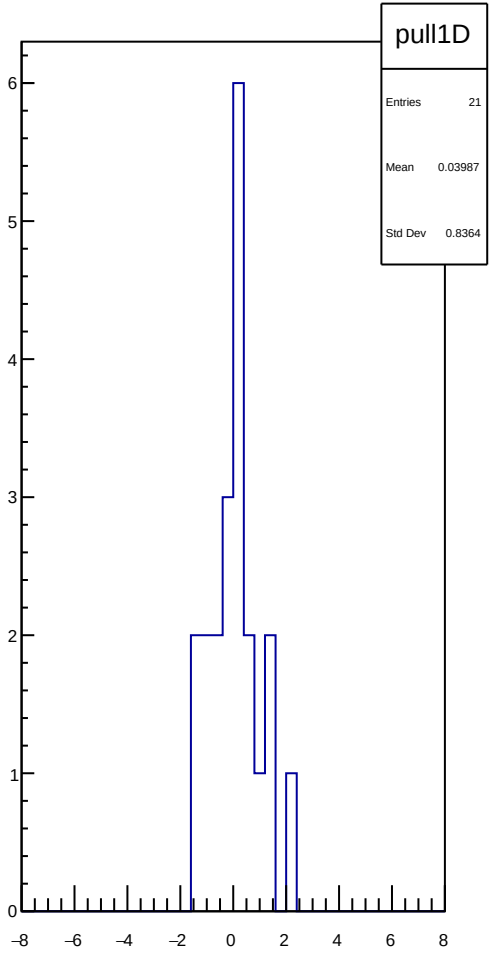

asym_atl_dd_atr_dd_dd_correction_mean vs run
×10^3
χ² / ndf 26.5 / 20
p0 −640.6 ± 3719
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −27.67
Std Dev 22.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

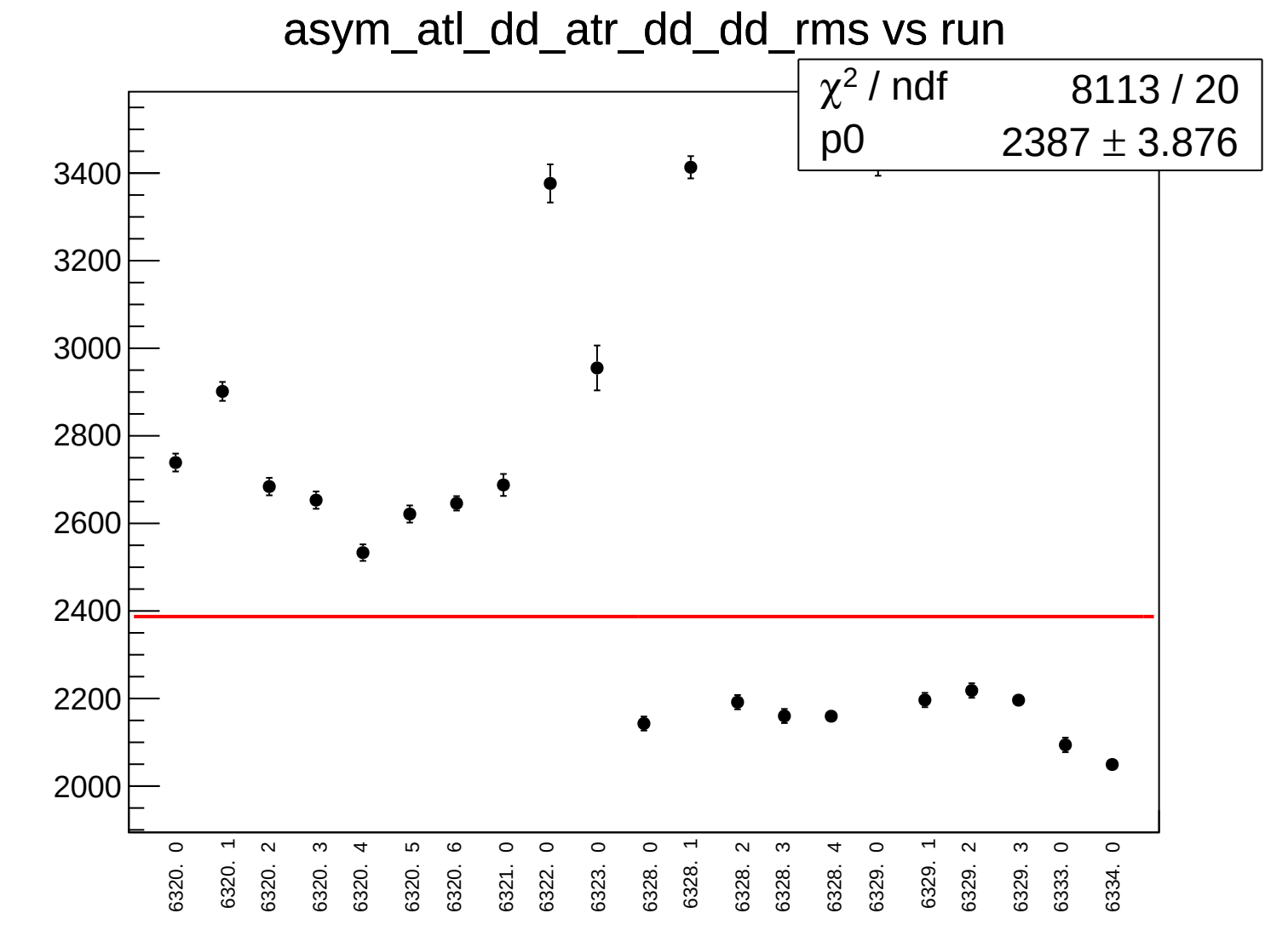

pull1D
Entries 21
Mean 0.01275
Std Dev 1.123
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

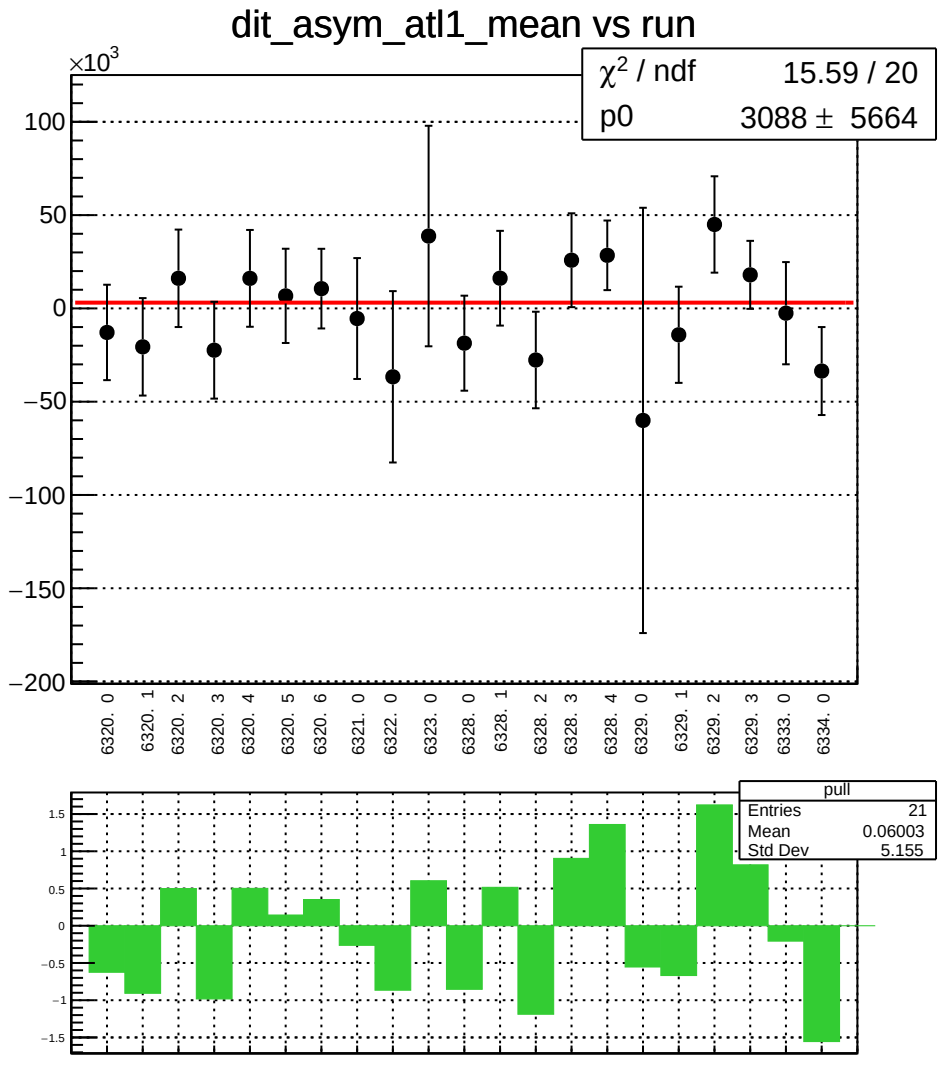

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1.652e+04 / 20
p0 1602 ± 2.63
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

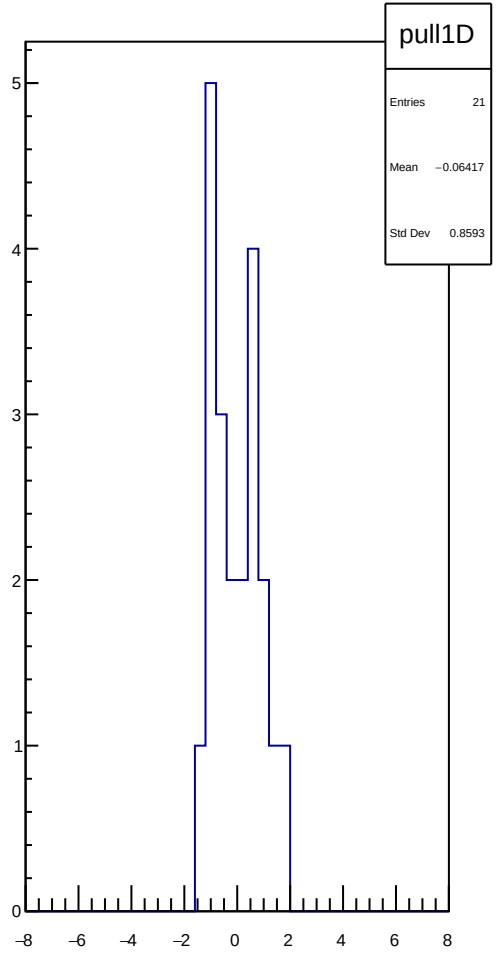

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 14.72 / 20
p0 1015 ± 5481
250
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

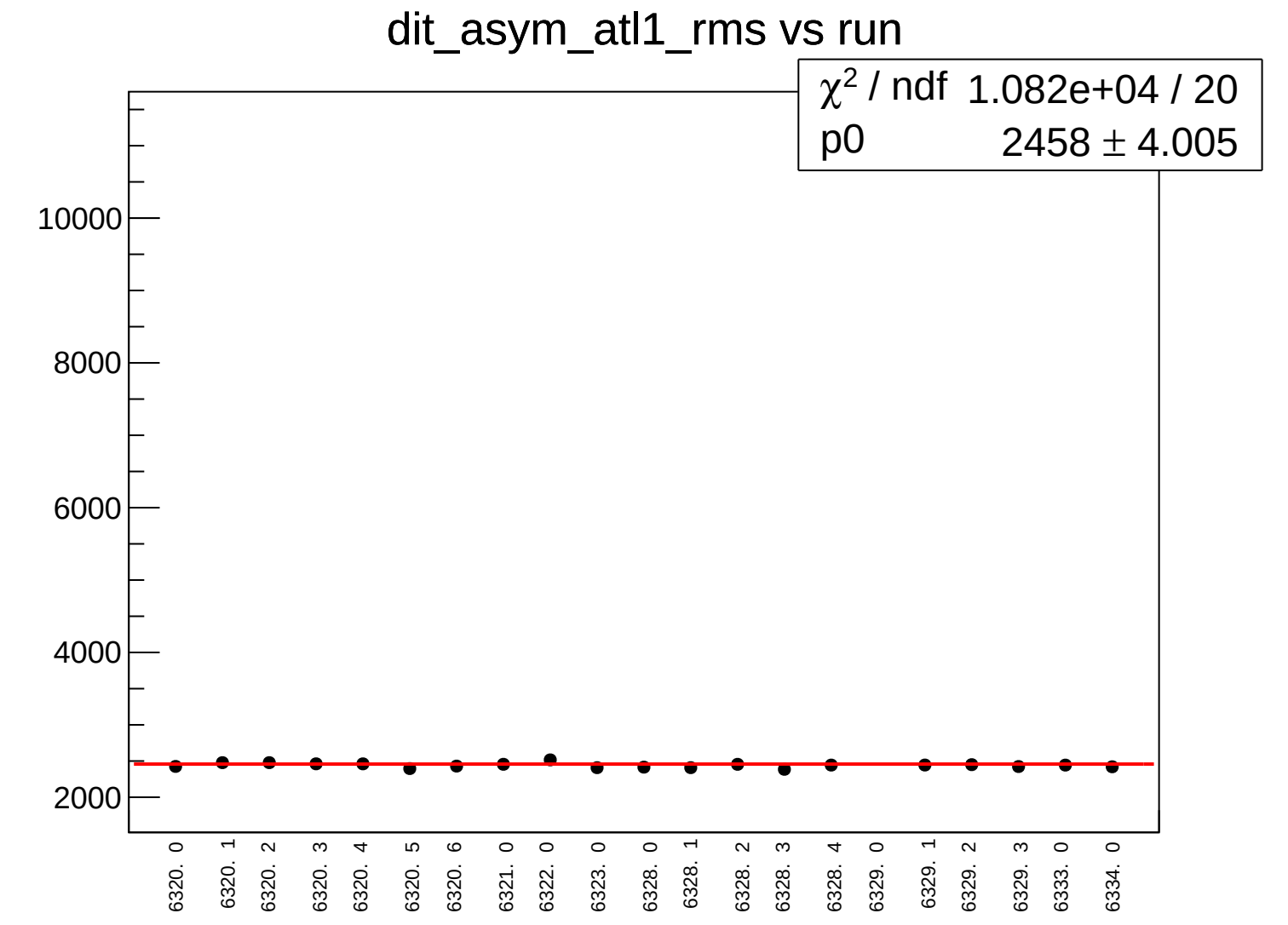

pull
Entries 21
Mean 37.55
Std Dev 30.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

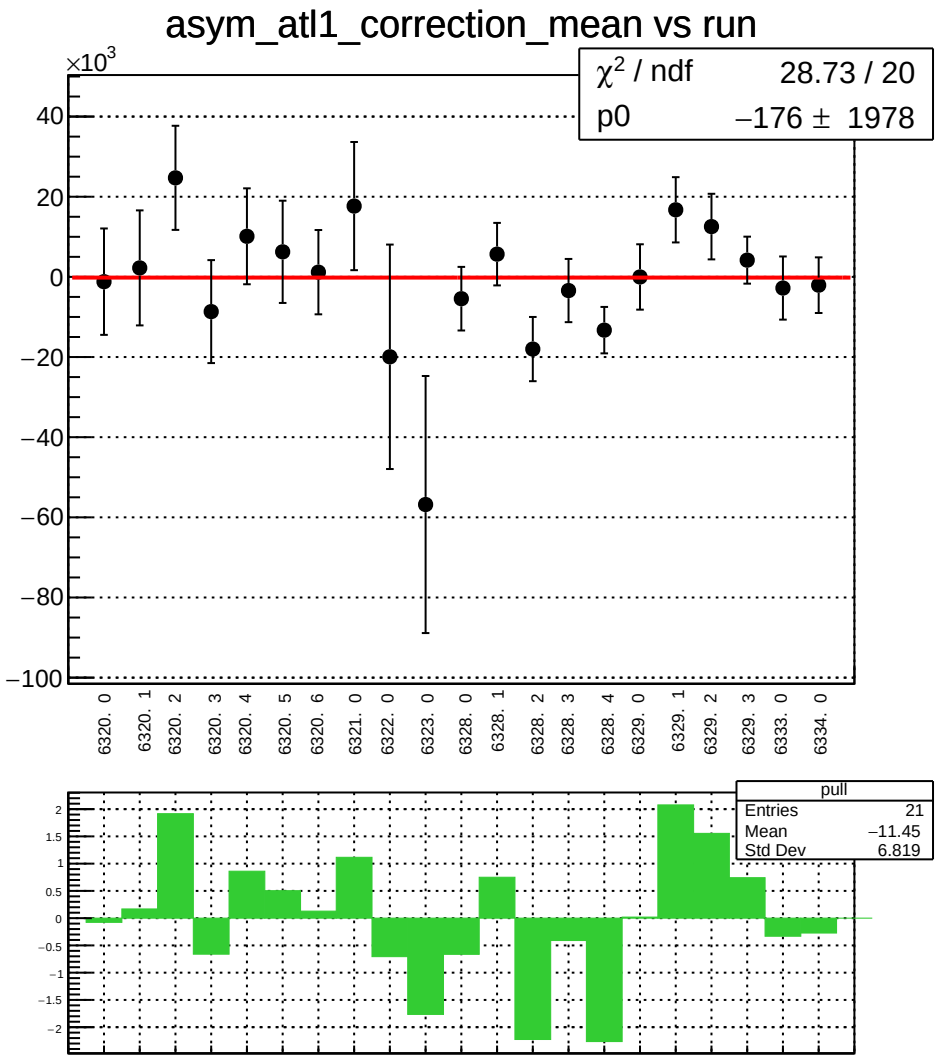

pull1D
Entries 21
Mean 0.03987
Std Dev 0.8364
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

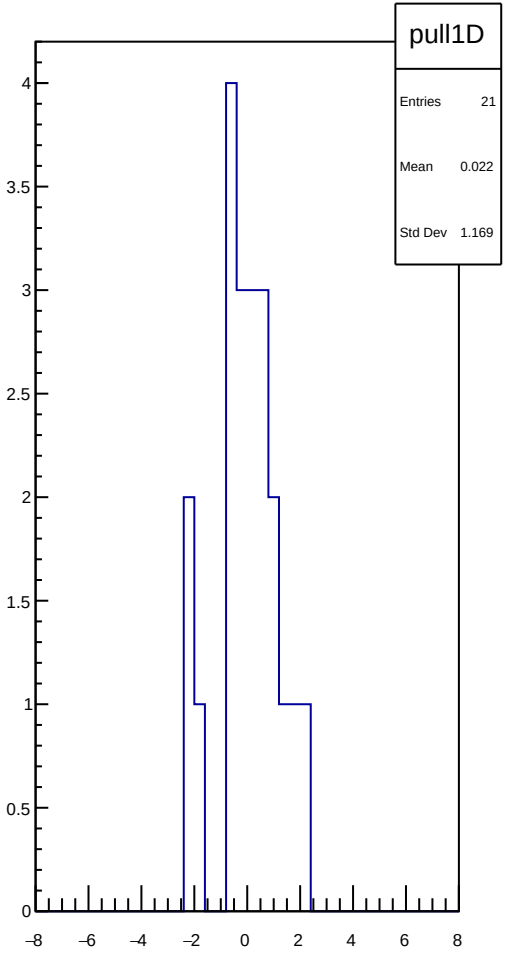

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 8113 / 20
p0 2387 ± 3.876
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

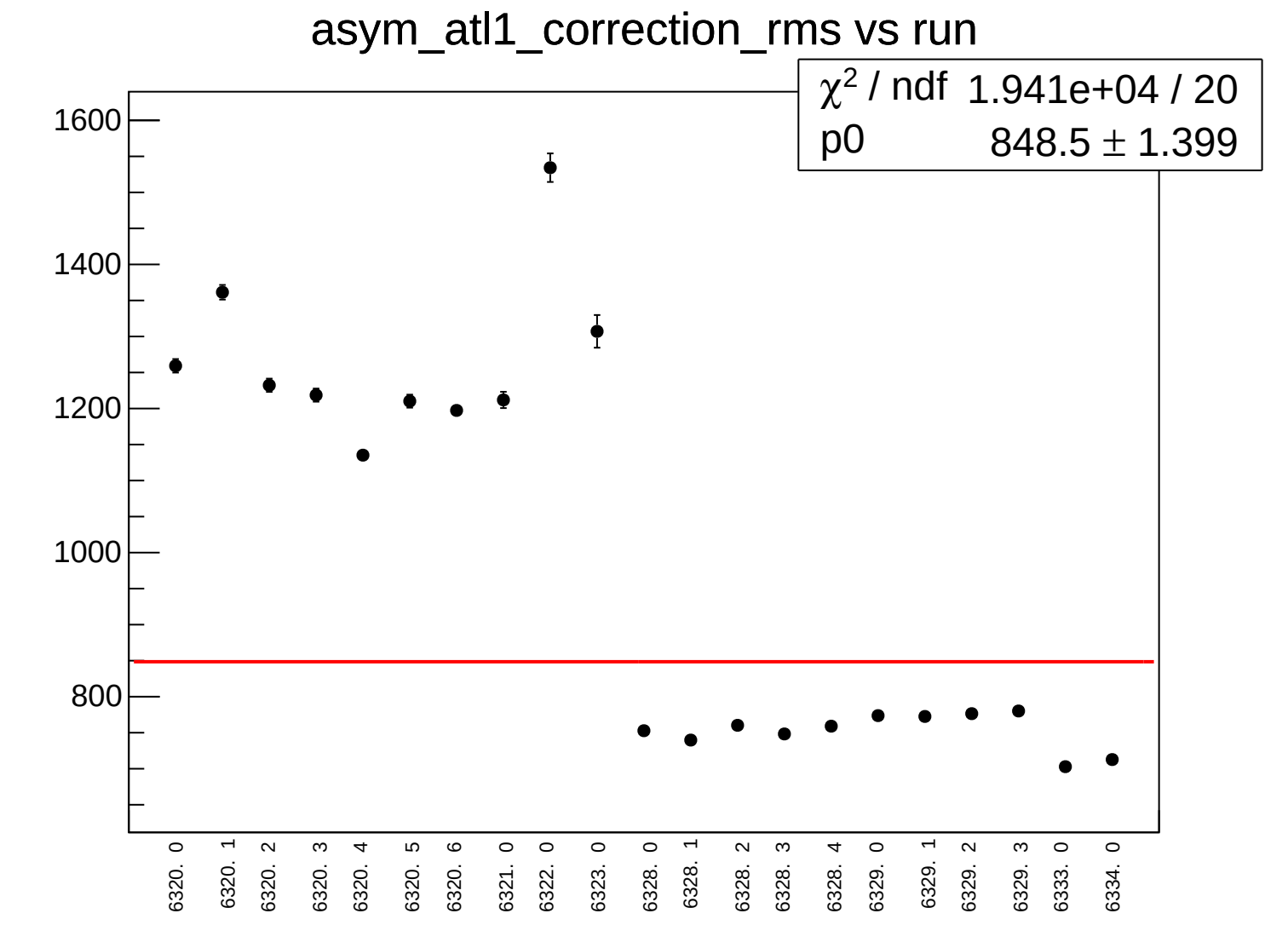

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 15.59 / 20
p0 3088 ± 5664
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.06003
Std Dev 5.155
1.5
1
0.5
0
−0.5
−1
−1.5

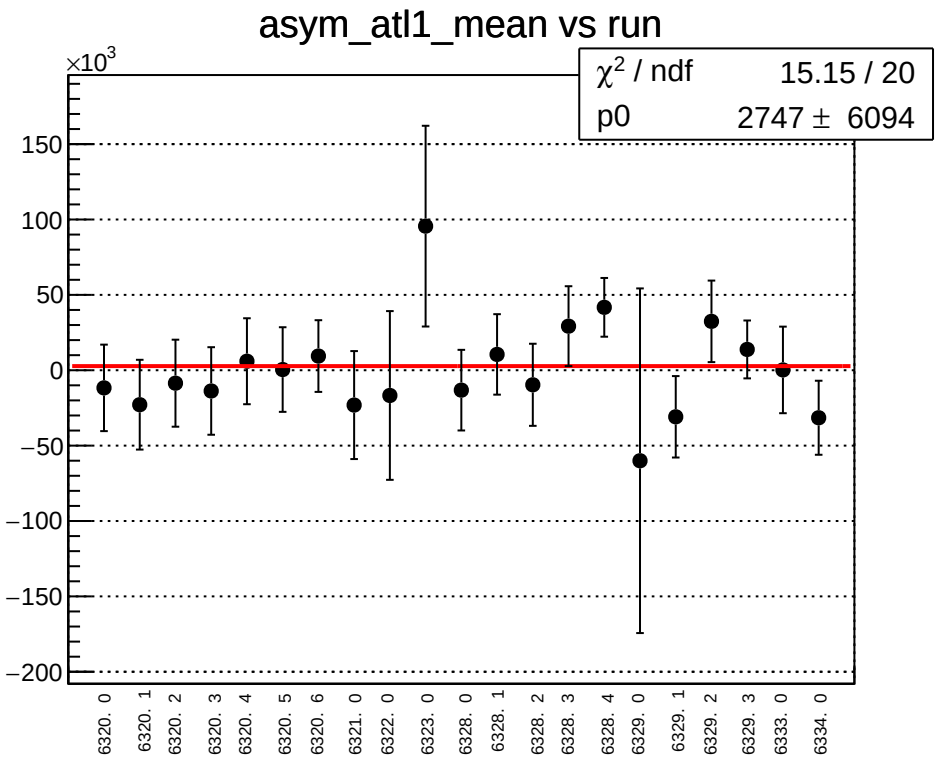

pull1D
Entries 21
Mean −0.06417
Std Dev 0.8593
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

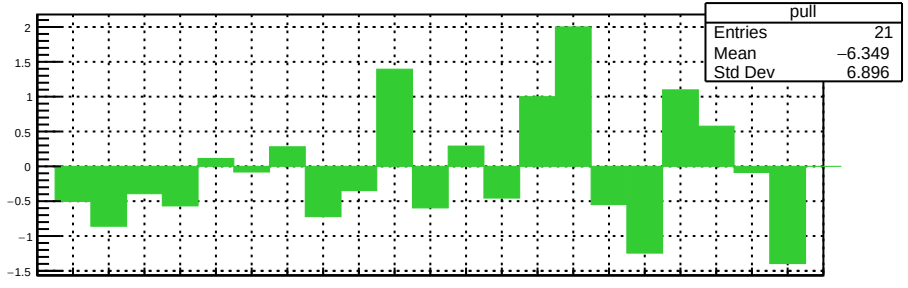

dit_asym_atl1_rms vs run
χ² / ndf 1.082e+04 / 20
p0 2458 ± 4.005
10000
8000
6000
4000
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

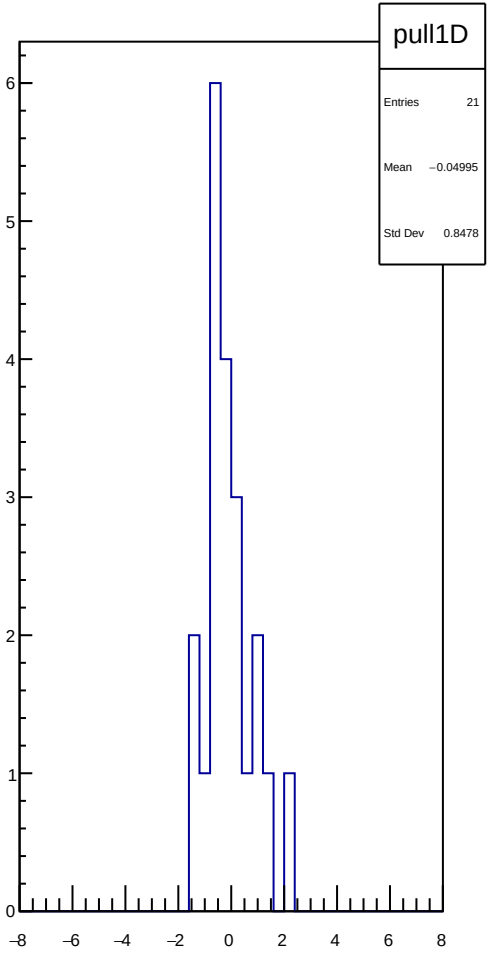

asym_atl1_correction_mean vs run
×10^3
χ² / ndf 28.73 / 20
p0 −176 ± 1978
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −11.45
Std Dev 6.819
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

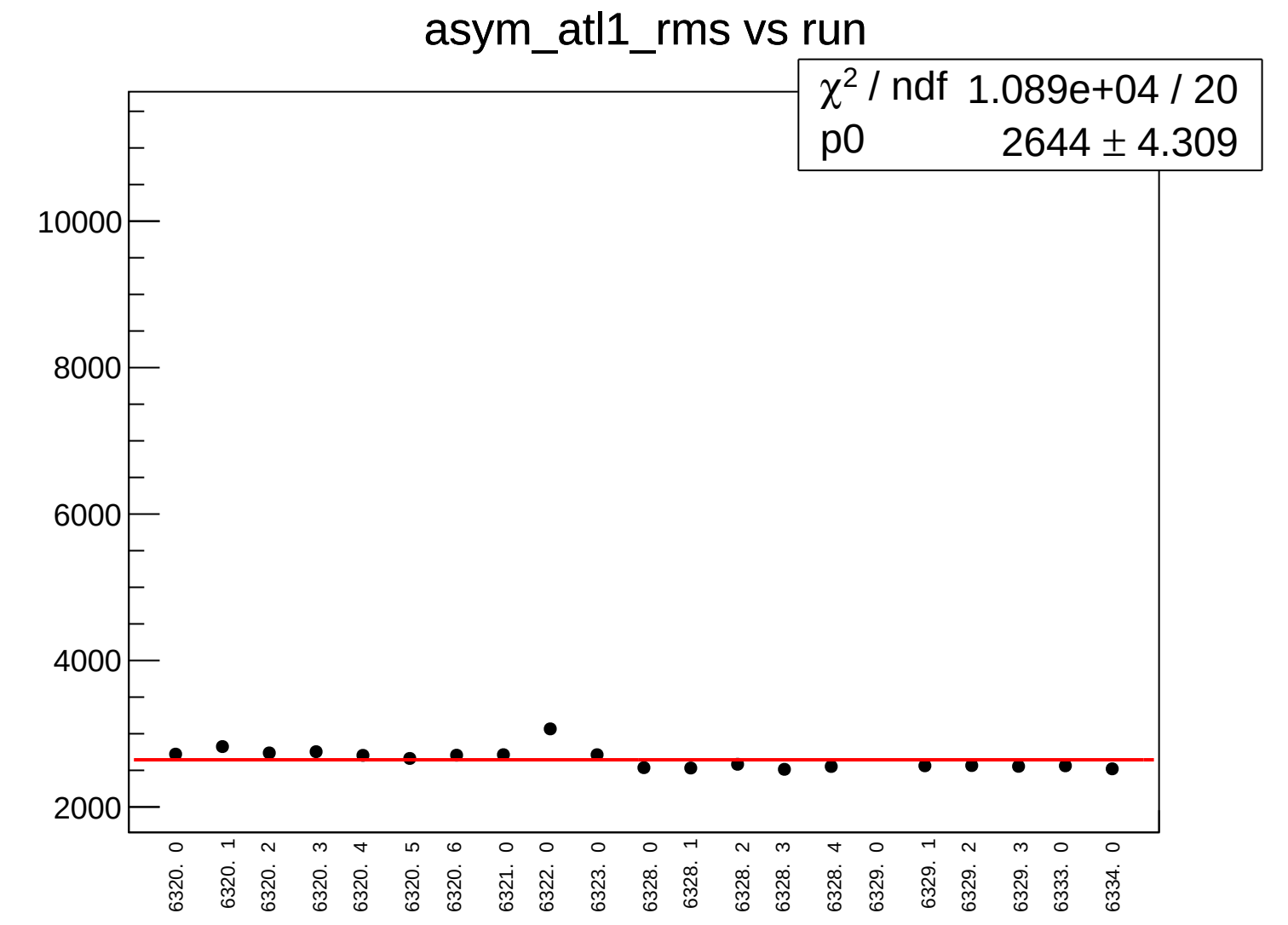

pull1D
Entries 21
Mean 0.022
Std Dev 1.169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

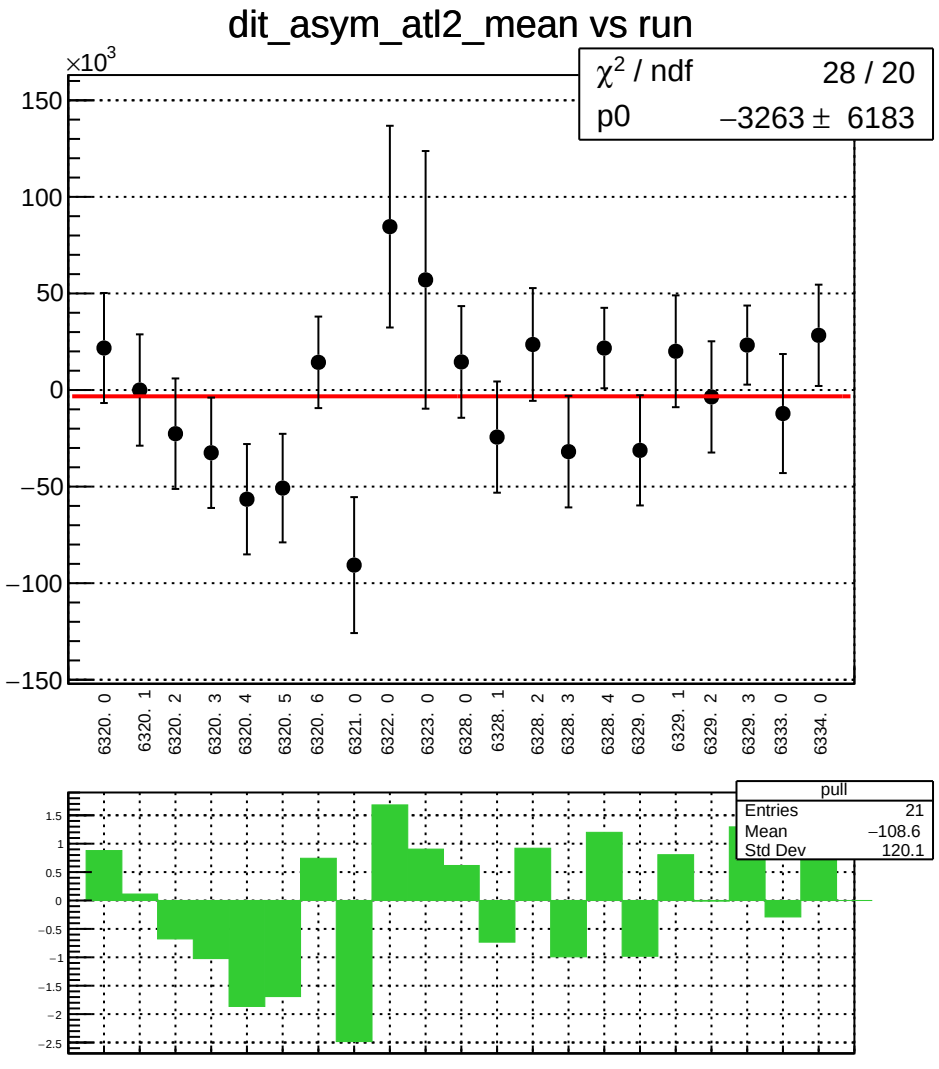

asym_atl1_correction_rms vs run
χ² / ndf 1.941e+04 / 20
p0 848.5 ± 1.399
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

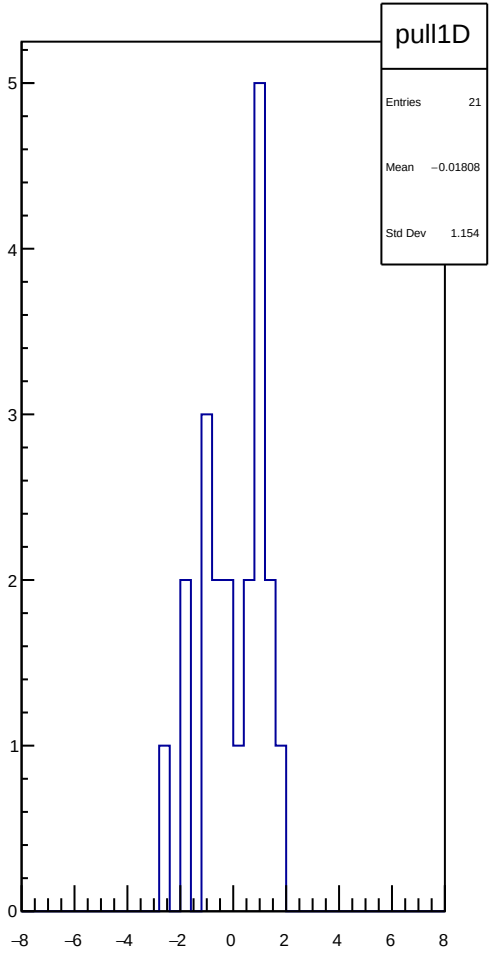

asym_atl1_mean vs run
×10^3
χ^2 / ndf 15.15 / 20
p0 2747 ± 6094
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

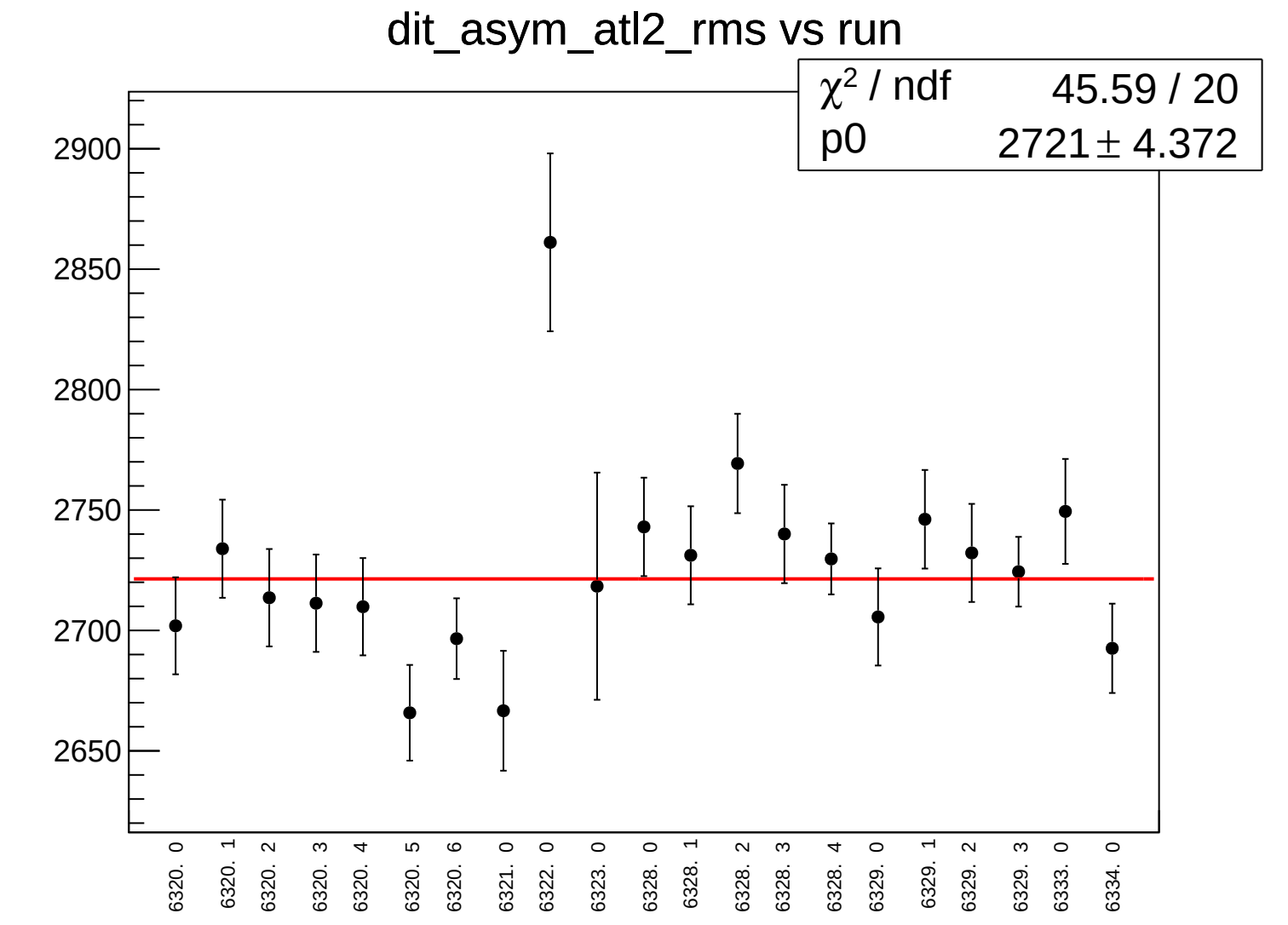

pull
Entries 21
Mean −6.349
Std Dev 6.896
2
1.5
1
0.5
0
−0.5
−1
−1.5

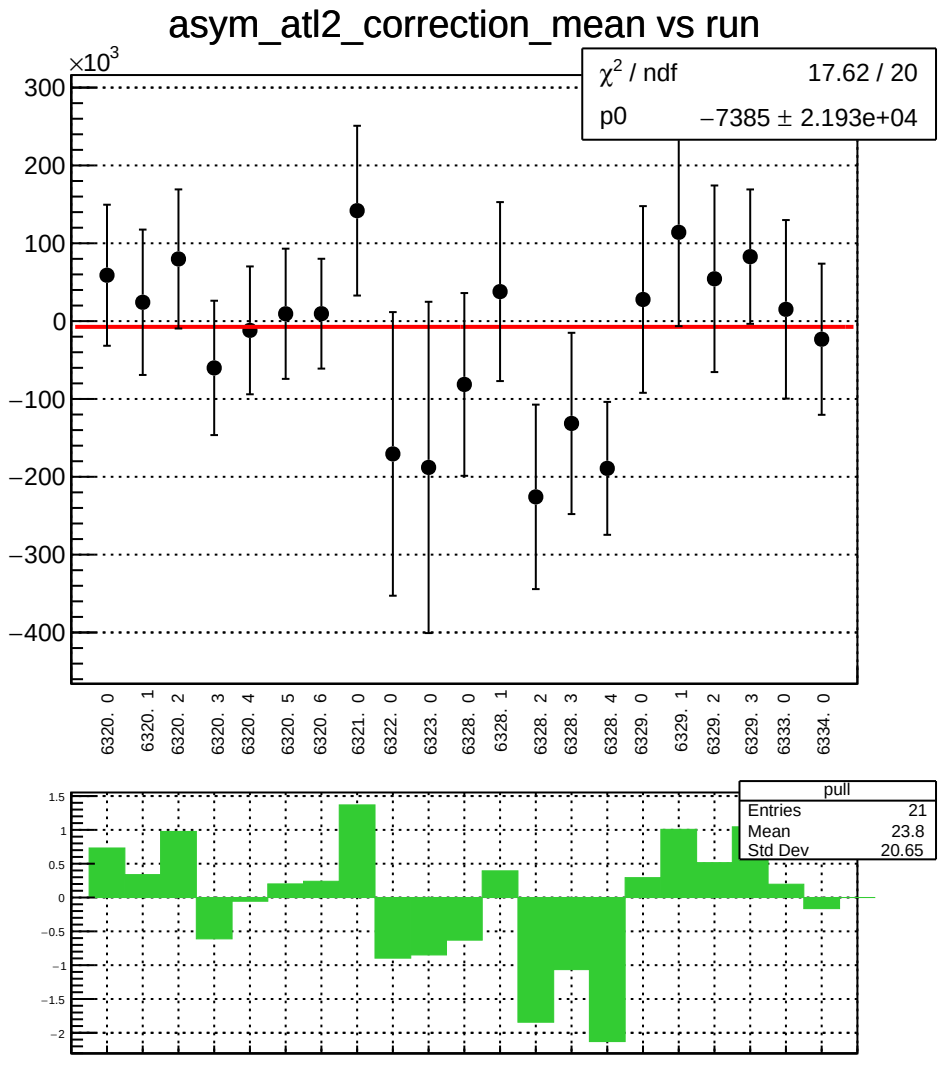

pull1D
Entries 21
Mean −0.04995
Std Dev 0.8478
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

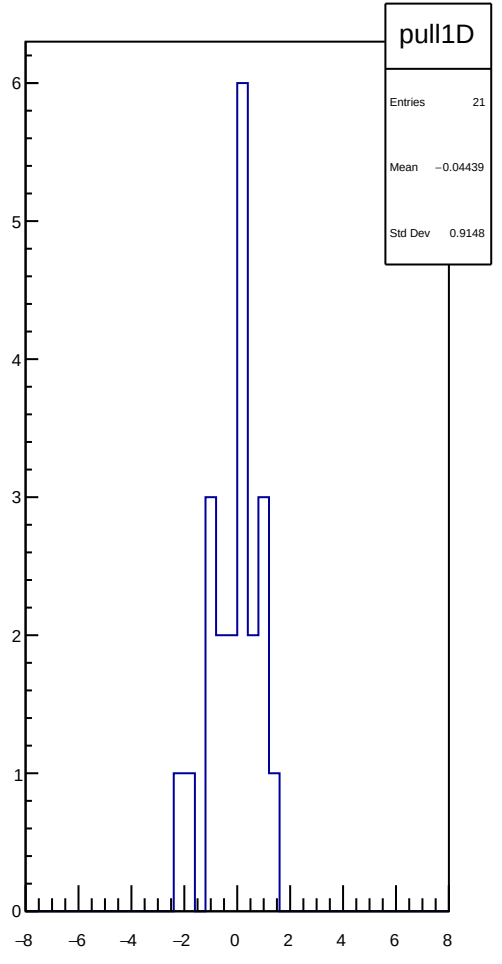

asym_atl1_rms vs run
χ² / ndf 1.089e+04 / 20
p0 2644 ± 4.309
10000
8000
6000
4000
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

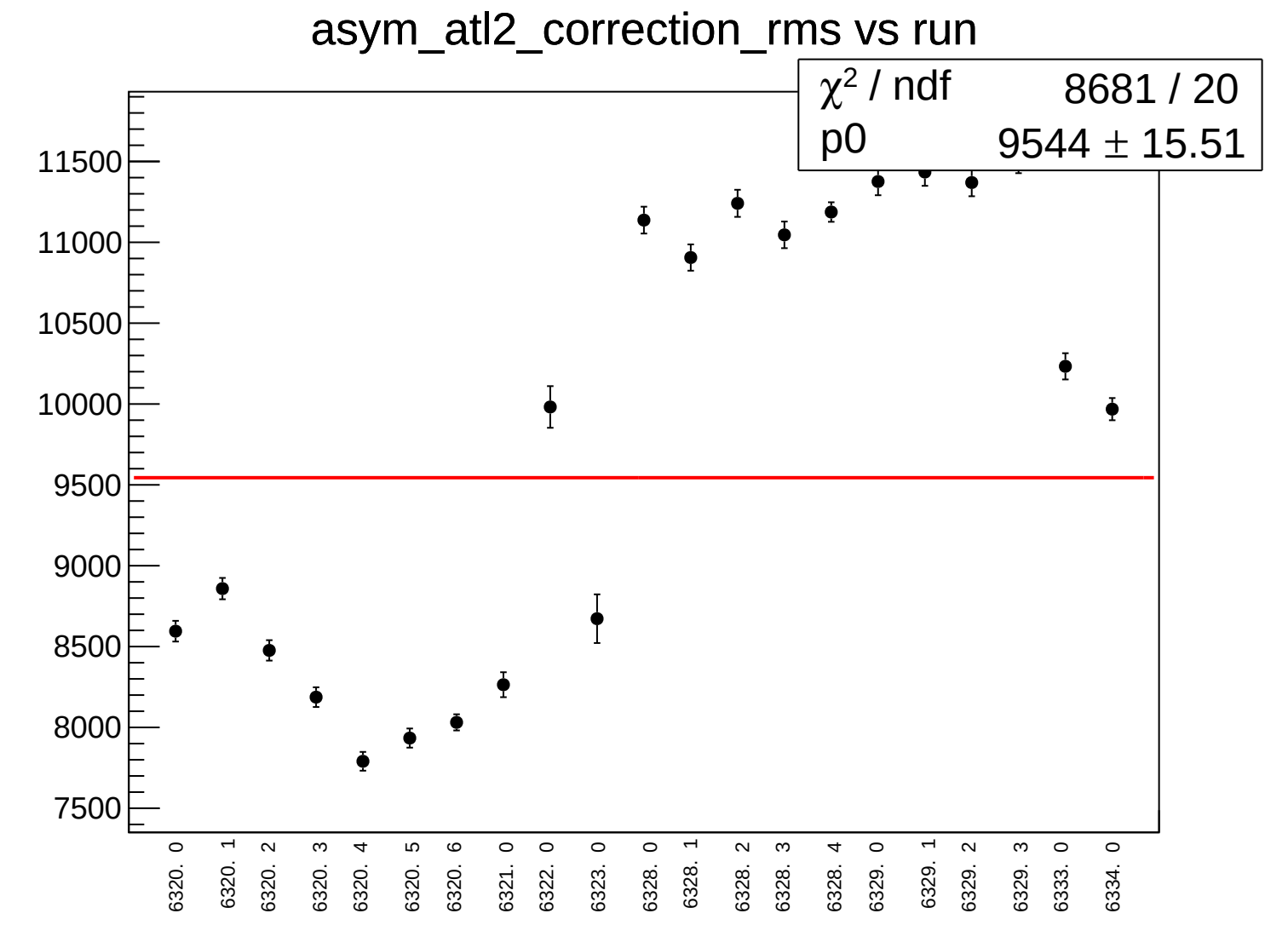

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 28 / 20
p0 −3263 ± 6183
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −108.6
Std Dev 120.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

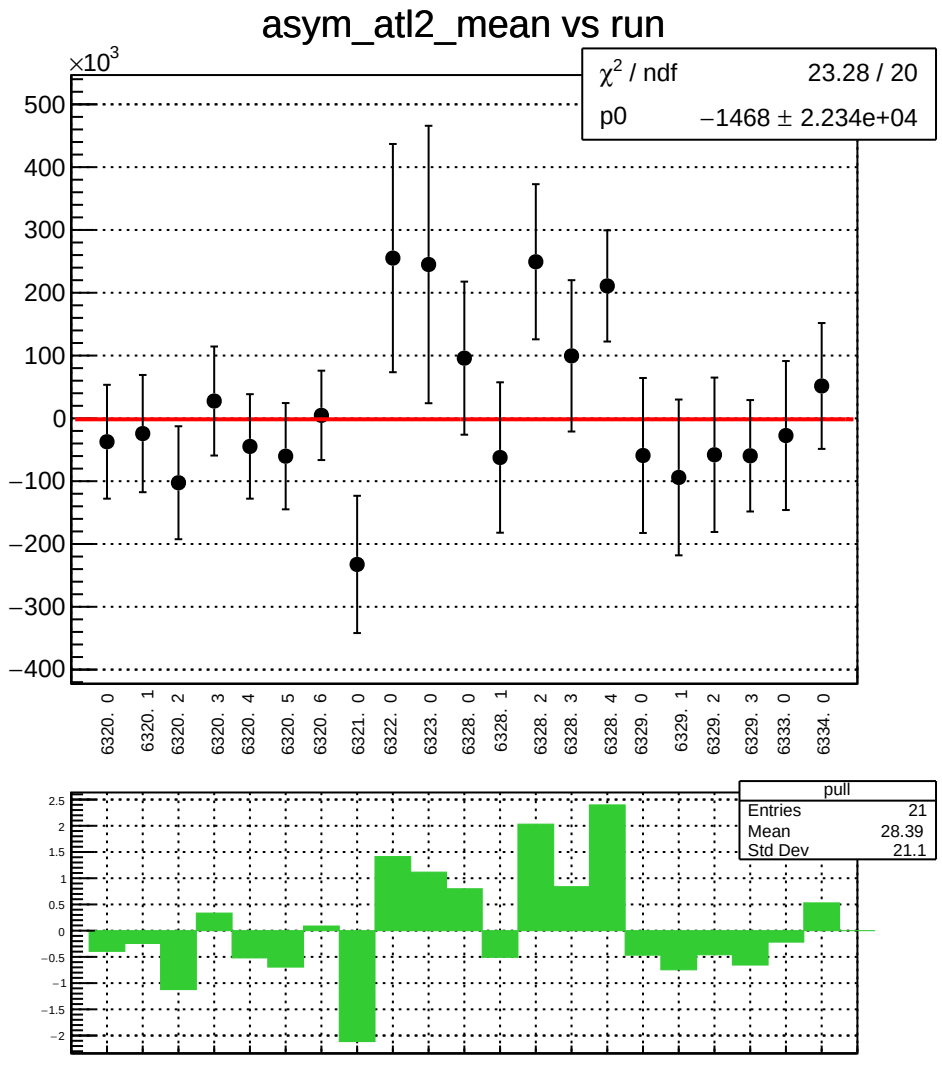

pull1D
Entries 21
Mean −0.01808
Std Dev 1.154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

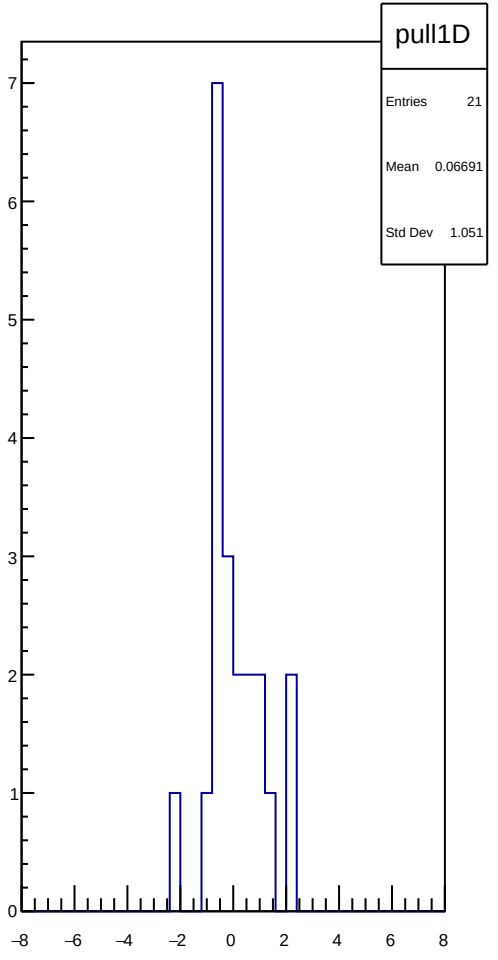

dit_asym_atl2_rms vs run
χ² / ndf 45.59 / 20
p0 2721 ± 4.372
2900
2850
2800
2750
2700
2650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

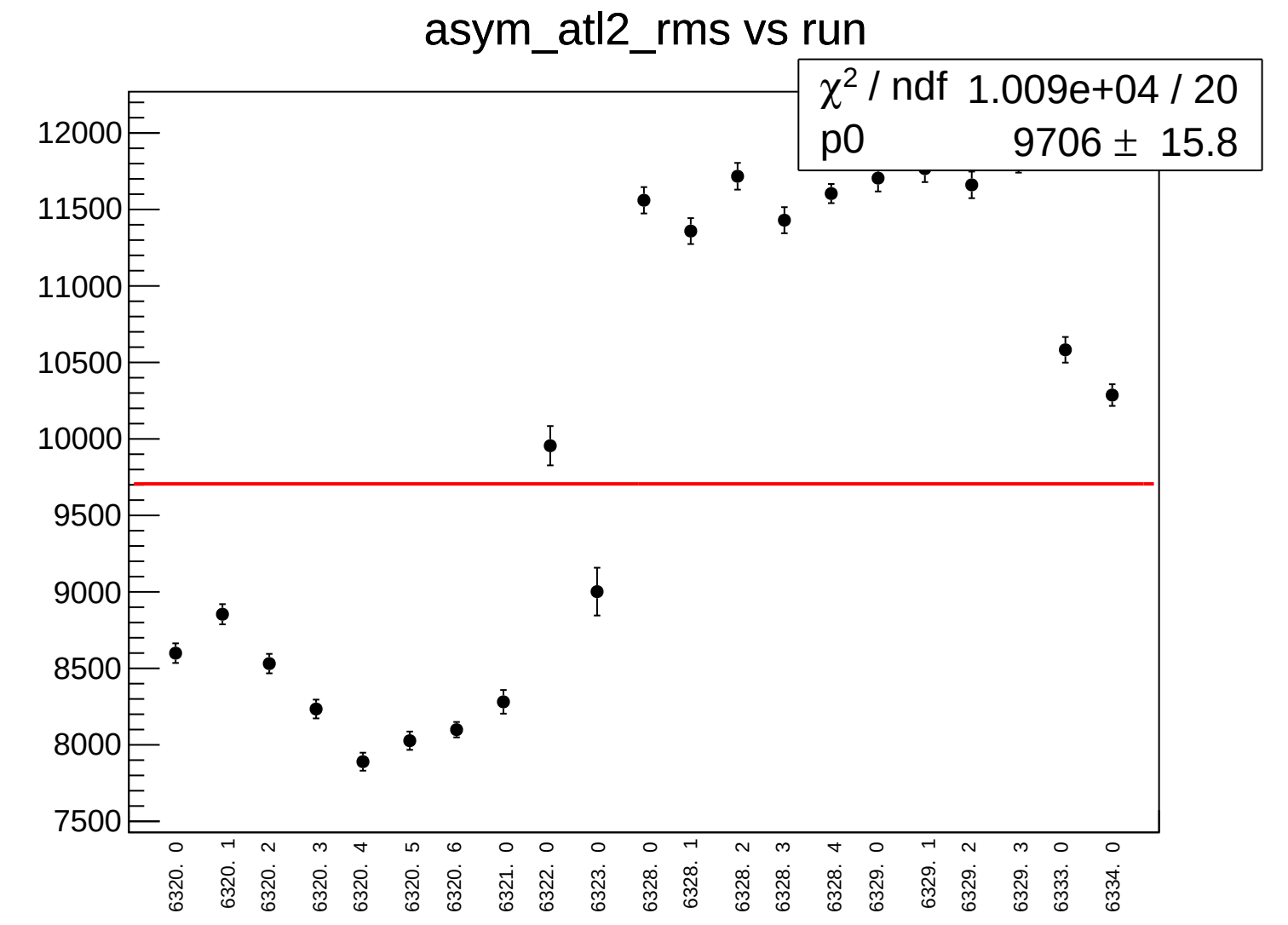

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 17.62 / 20
p0 −7385 ± 2.193e+04
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 23.8
Std Dev 20.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2

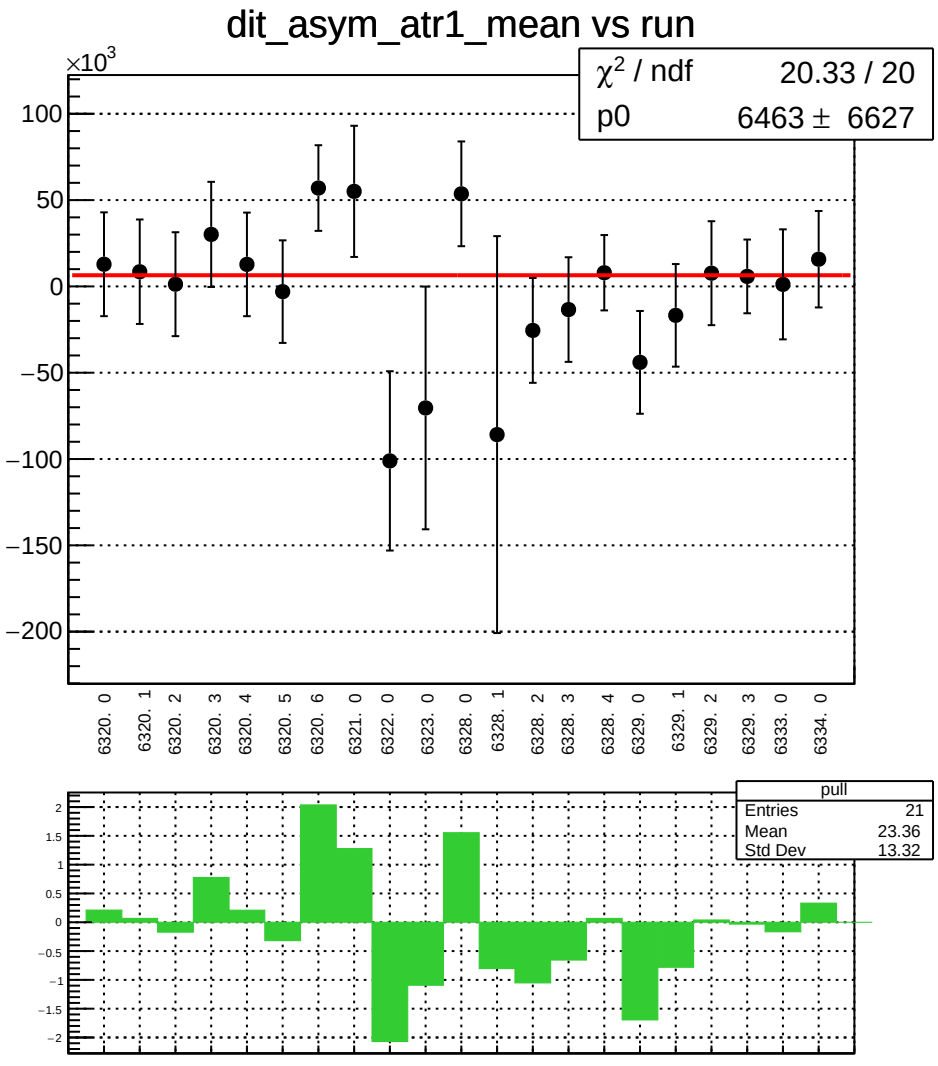

pull1D
Entries 21
Mean −0.04439
Std Dev 0.9148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

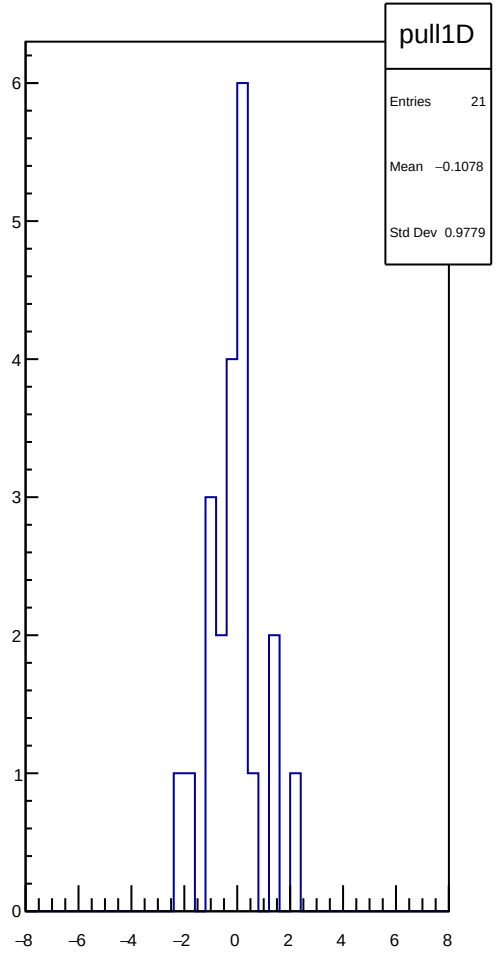

asym_atl2_correction_rms vs run
χ² / ndf 8681 / 20
p0 9544 ± 15.51
11500
11000
10500
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

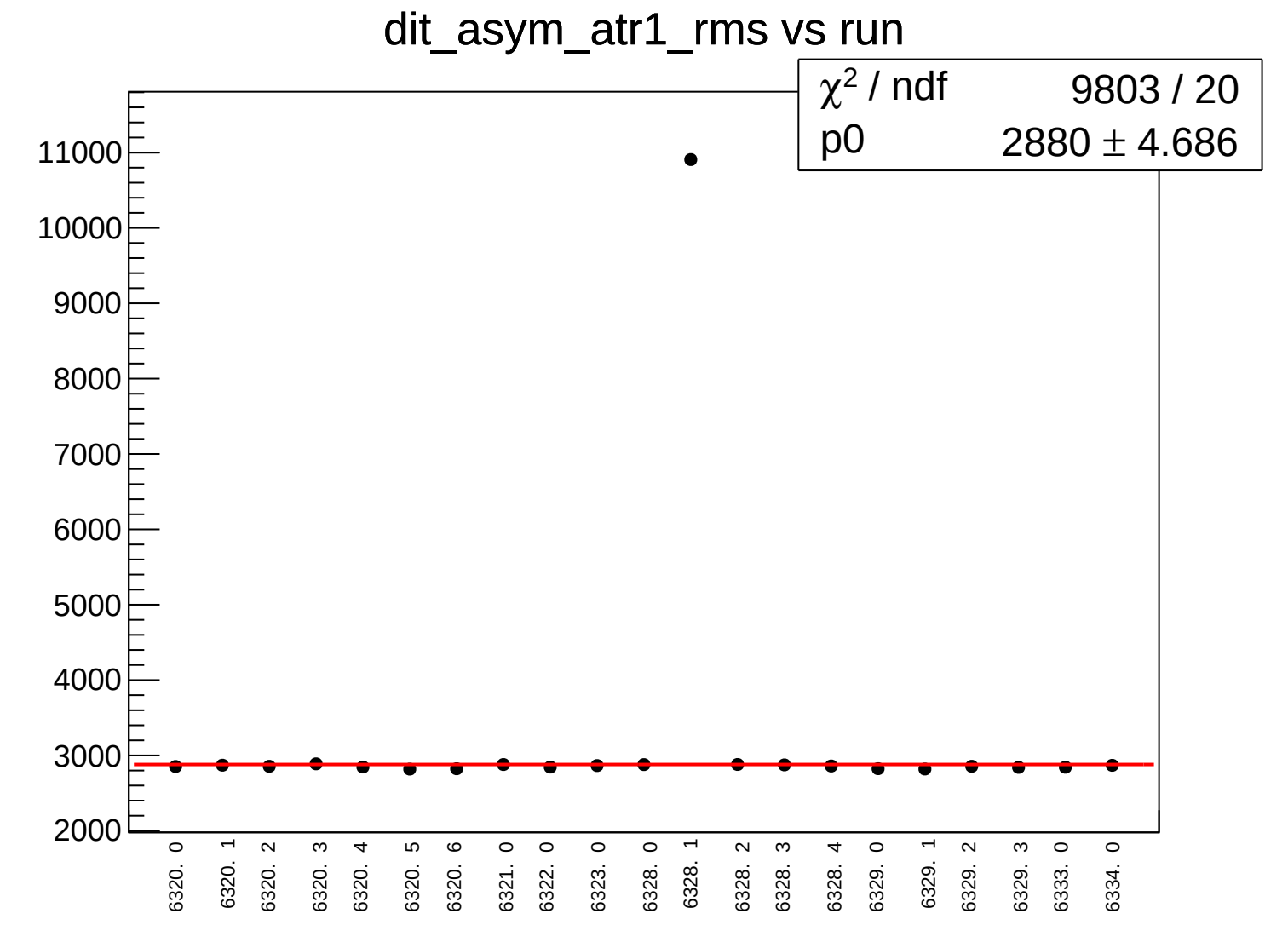

asym_atl2_mean vs run
×10^3
χ² / ndf 23.28 / 20
p0 −1468 ± 2.234e+04
500
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.39
Std Dev 21.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

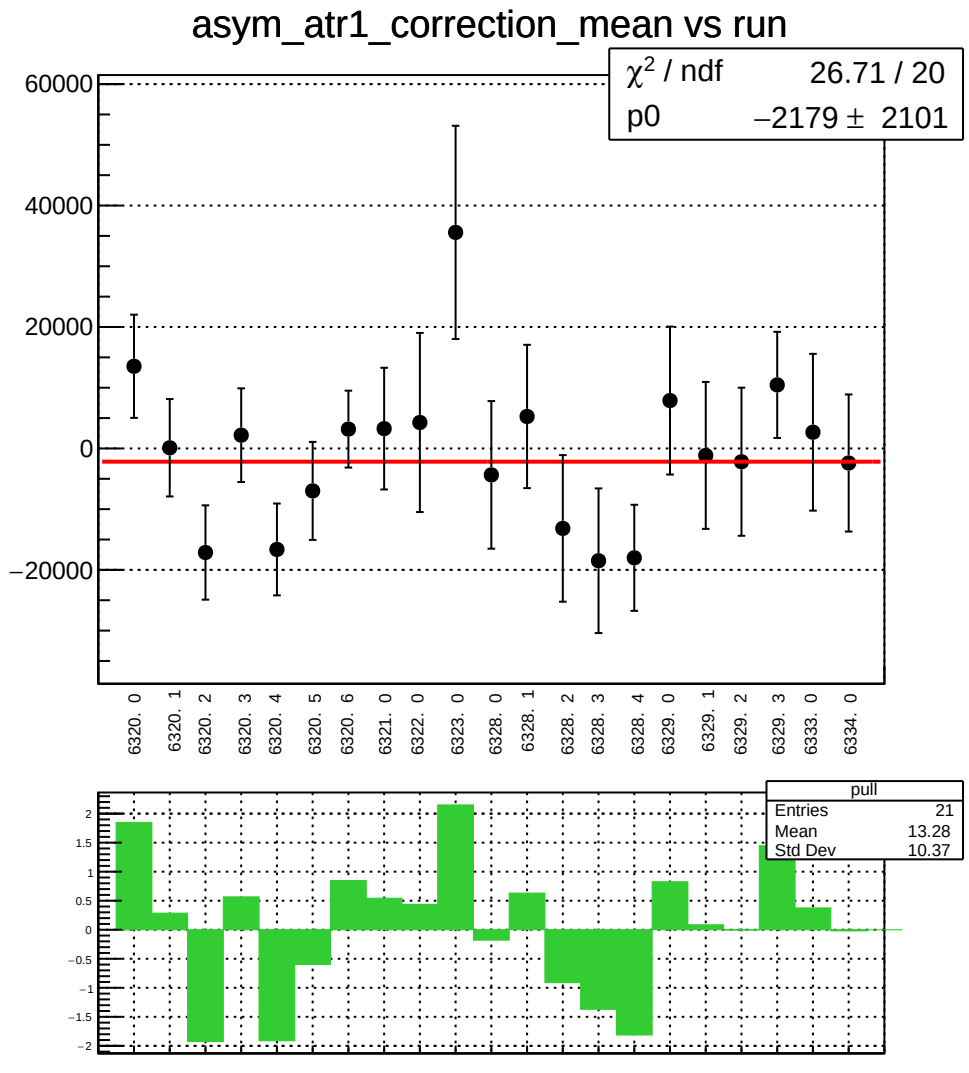

pull1D
Entries 21
Mean 0.06691
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

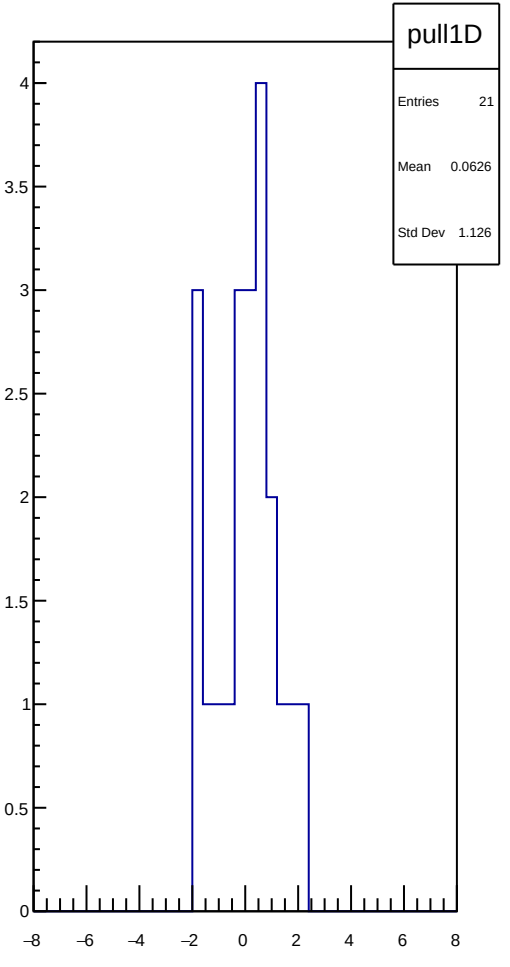

asym_atl2_rms vs run
χ² / ndf 1.009e+04 / 20
p0 9706 ± 15.8
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

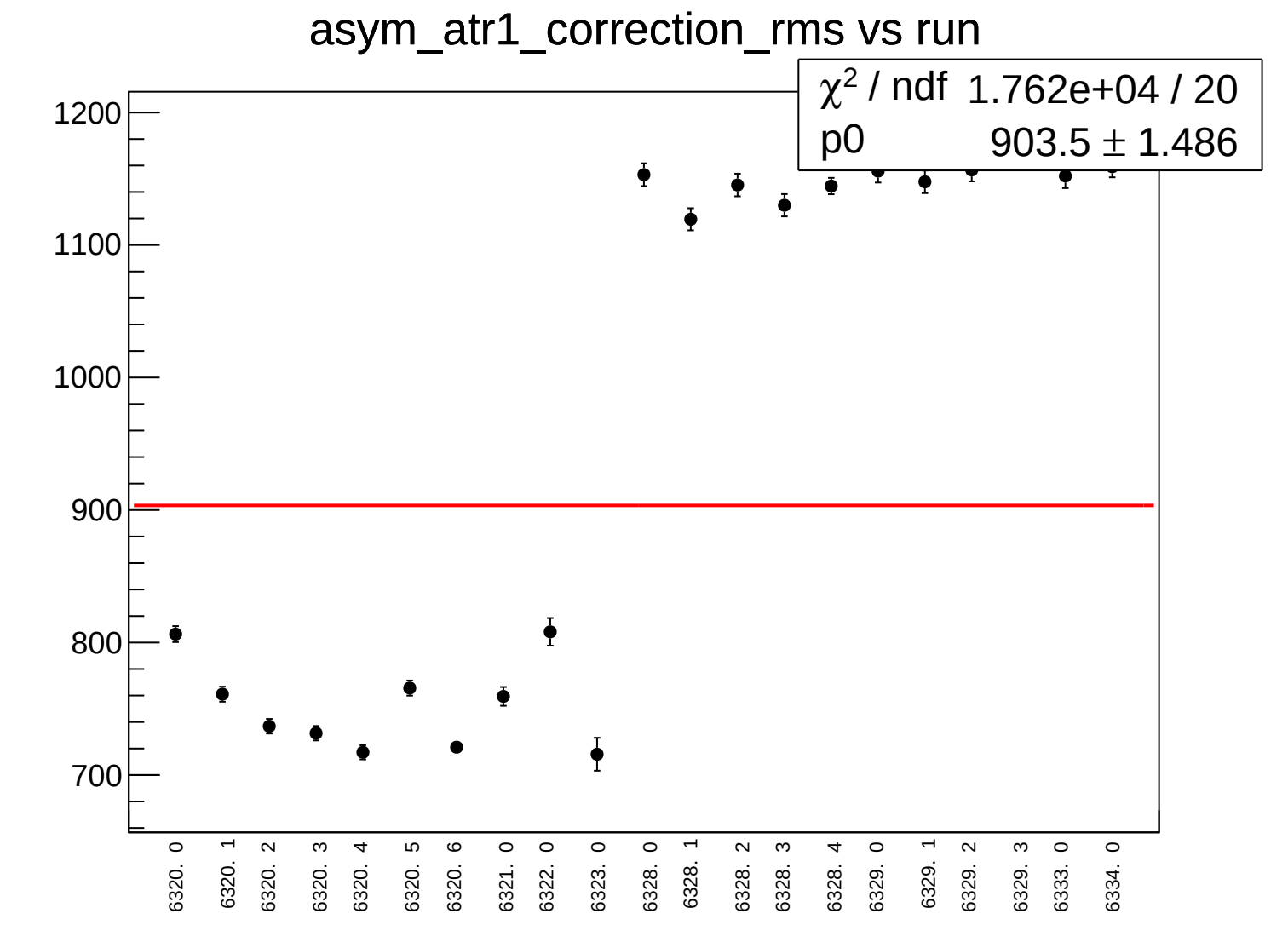

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 20.33 / 20
p0 6463 ± 6627
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 23.36
Std Dev 13.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

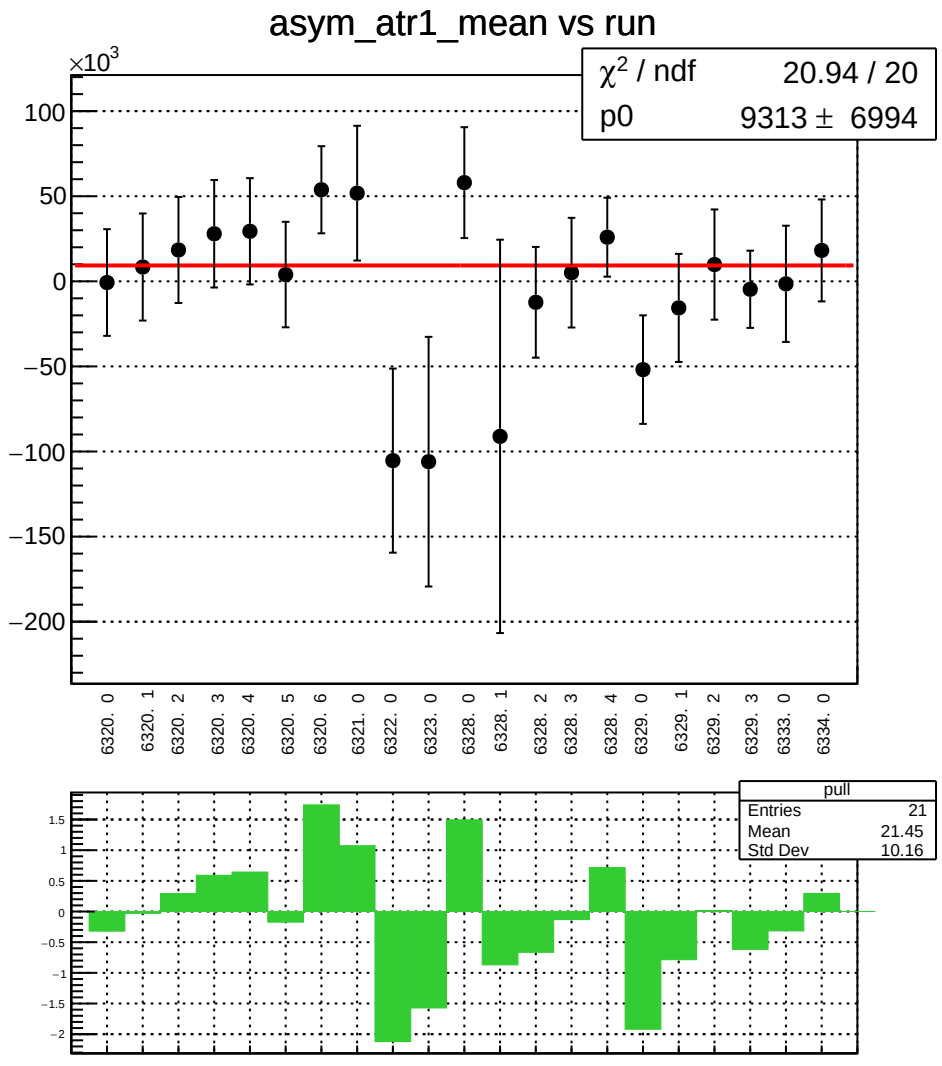

pull1D
Entries 21
Mean −0.1078
Std Dev 0.9779
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

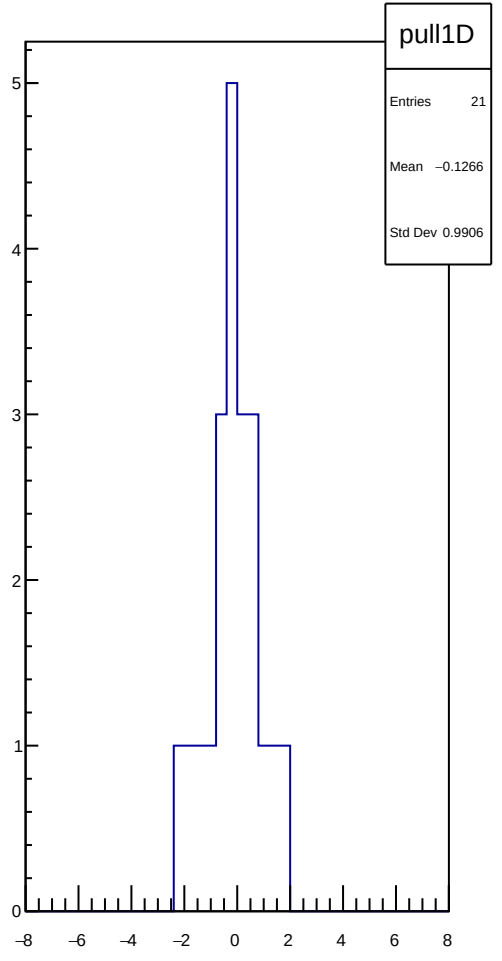

dit_asym_atr1_rms vs run
χ² / ndf 9803 / 20
p0 2880 ± 4.686
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

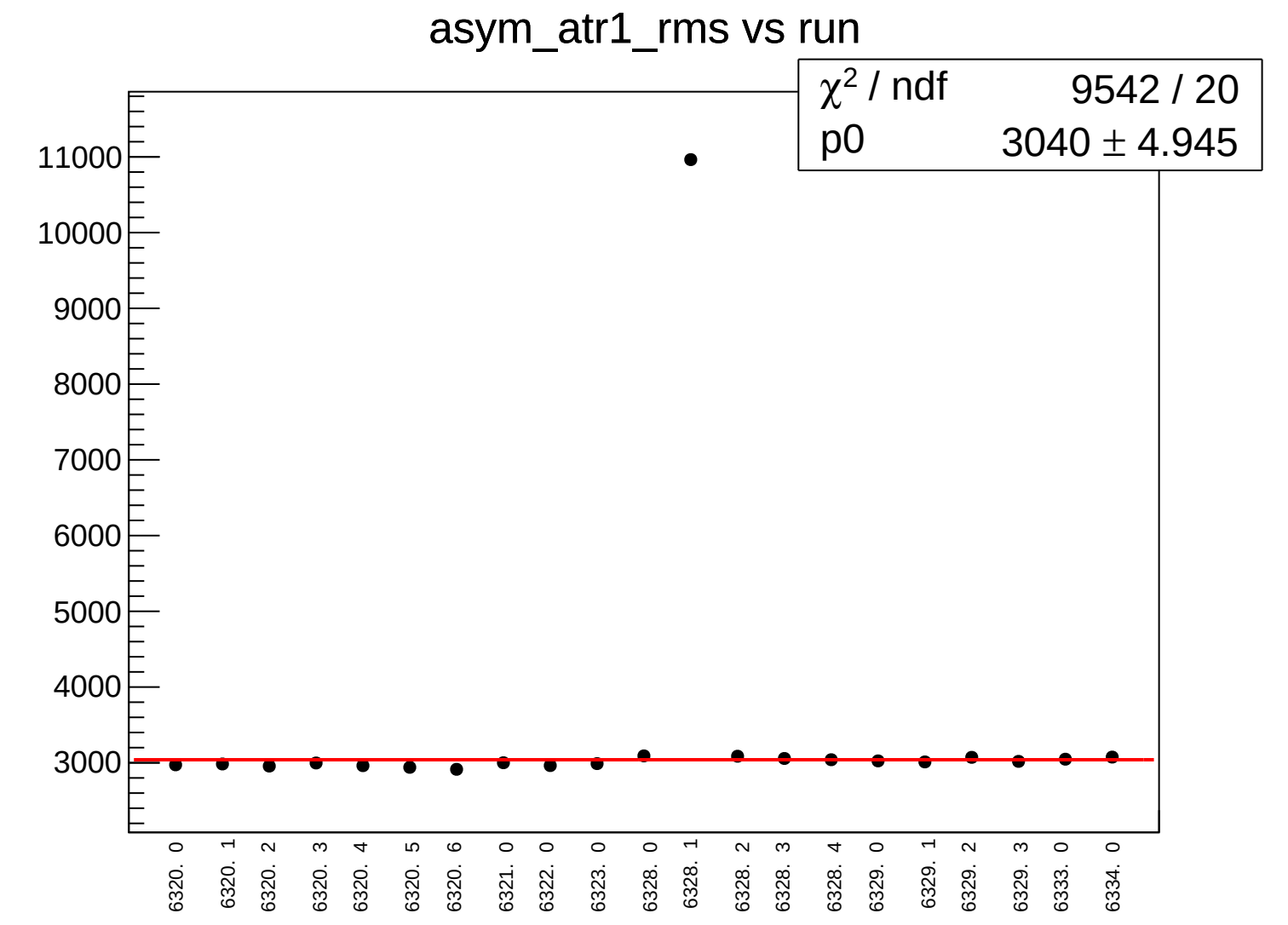

asym_atr1_correction_mean vs run
χ² / ndf 26.71 / 20
p0 −2179 ± 2101
60000
40000
20000
0
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.28
Std Dev 10.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

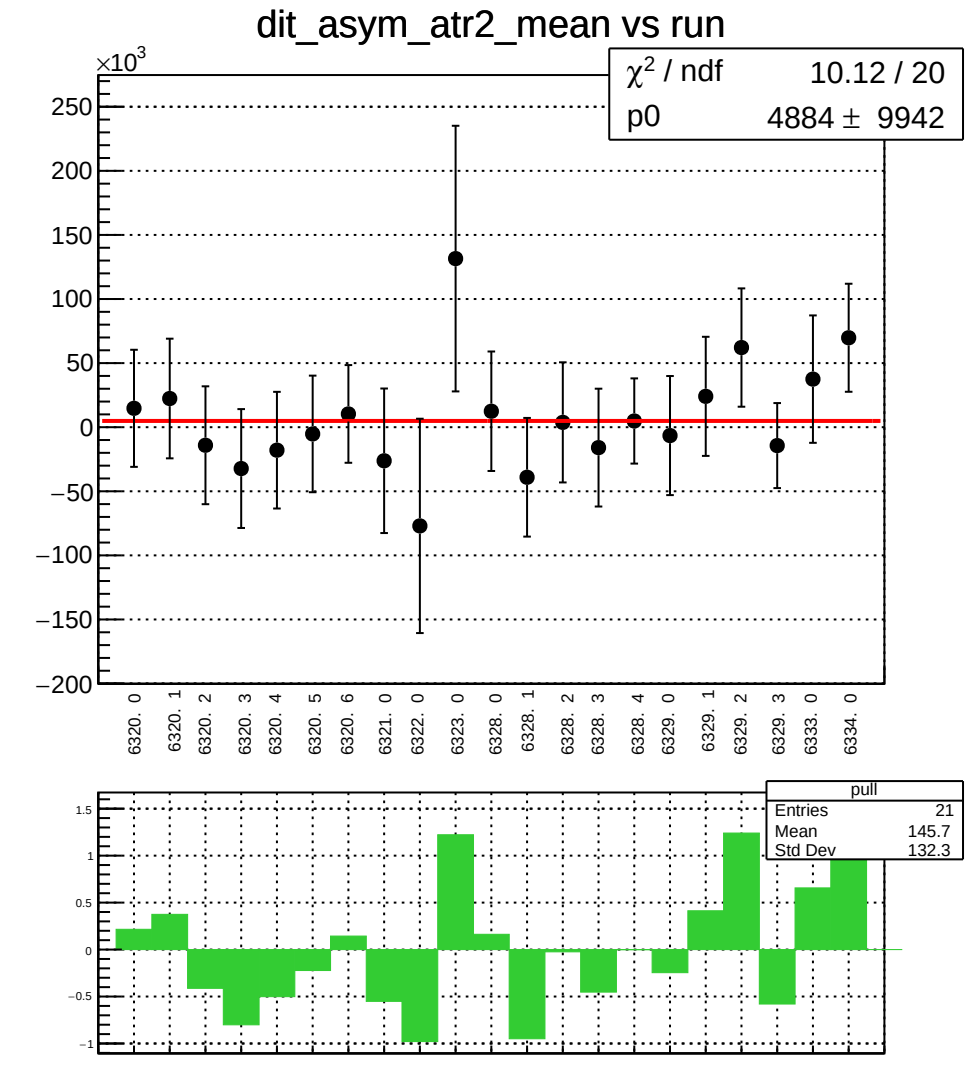

pull1D
Entries 21
Mean 0.0626
Std Dev 1.126
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

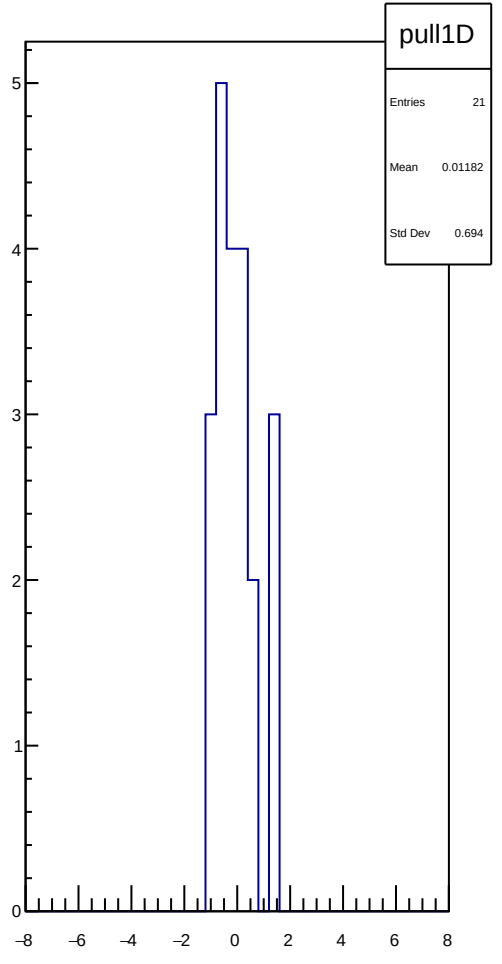

asym_atr1_correction_rms vs run
χ² / ndf 1.762e+04 / 20
p0 903.5 ± 1.486
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

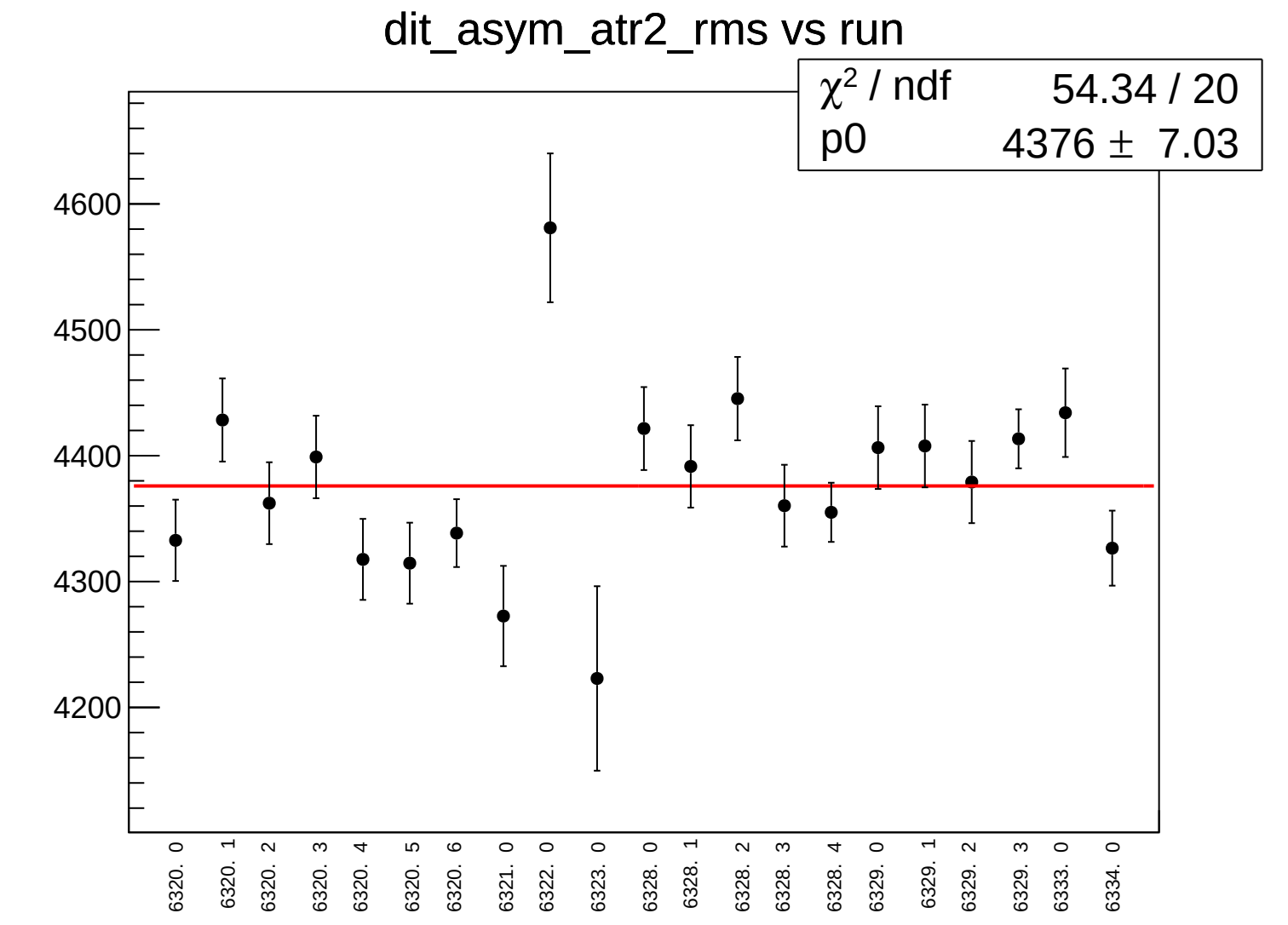

asym_atr1_mean vs run
×10^3
χ² / ndf 20.94 / 20
p0 9313 ± 6994
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 21.45
Std Dev 10.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

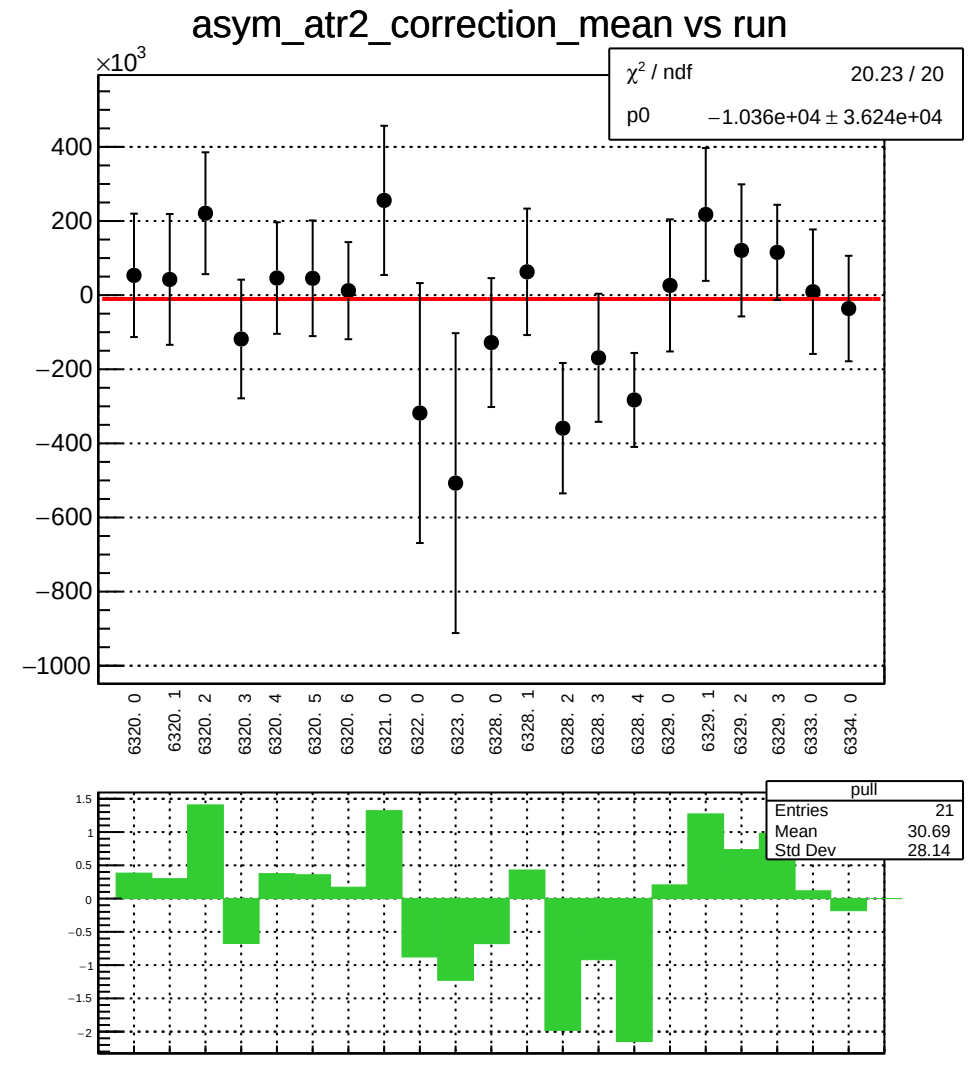

pull1D
Entries 21
Mean −0.1266
Std Dev 0.9906
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

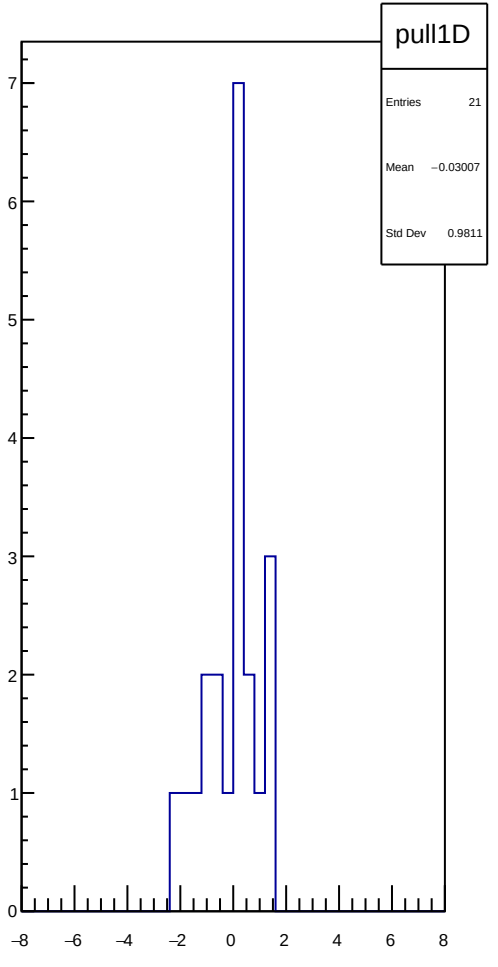

asym_atr1_rms vs run
χ² / ndf 9542 / 20
p0 3040 ± 4.945
11000
10000
9000
8000
7000
6000
5000
4000
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

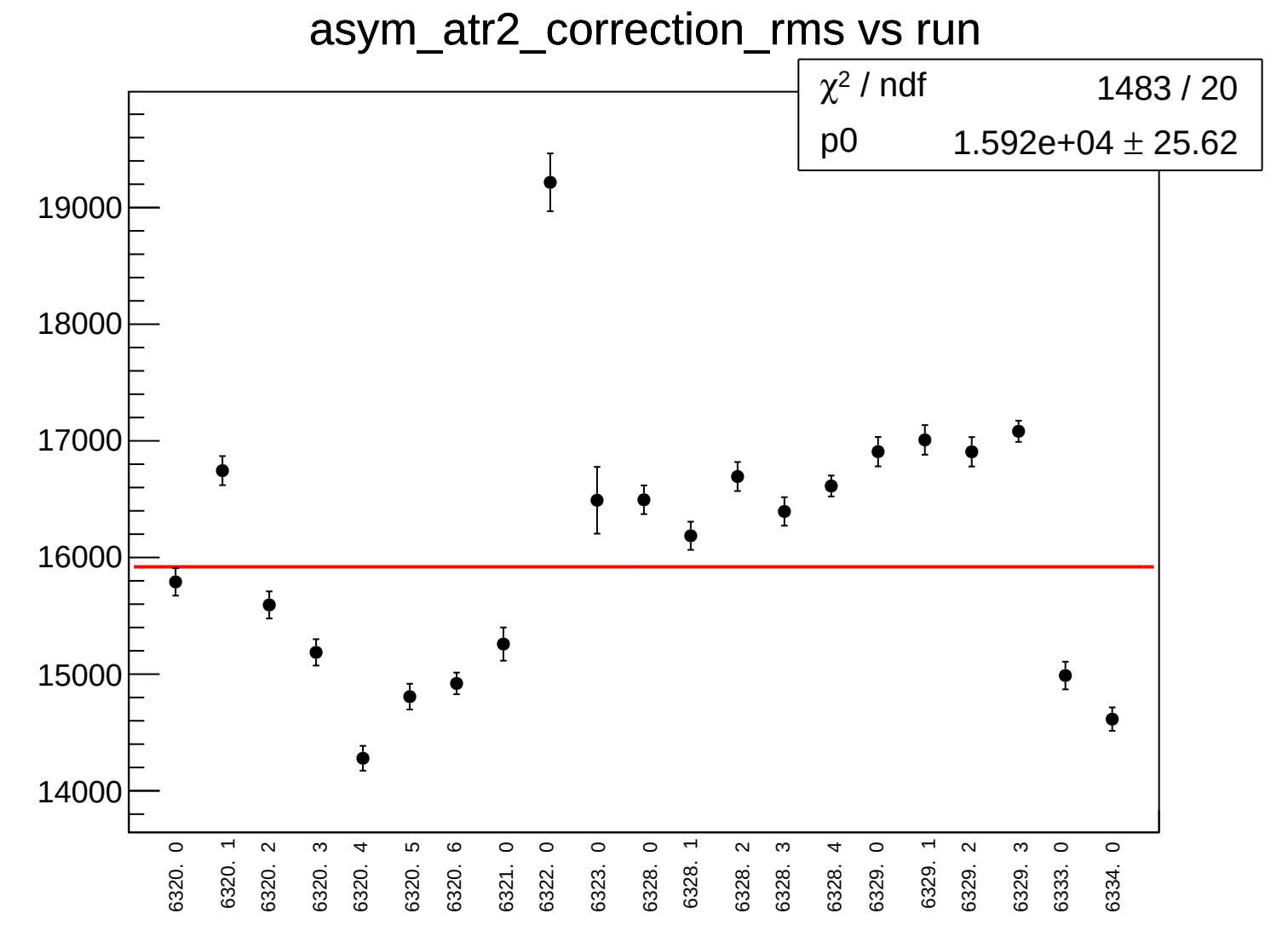

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 10.12 / 20
p0 4884 ± 9942
250
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 145.7
Std Dev 132.3
1.5
1
0.5
0
−0.5
−1

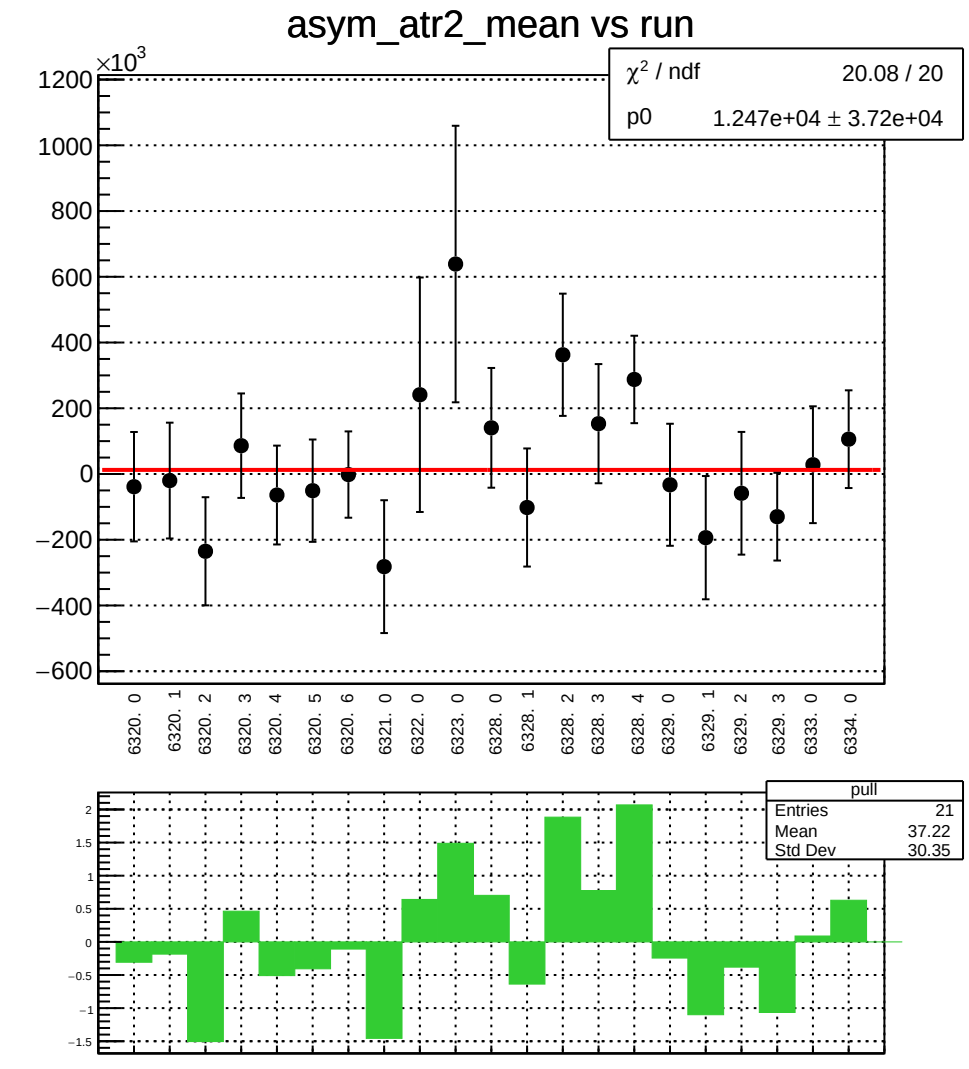

pull1D
Entries 21
Mean 0.01182
Std Dev 0.694
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

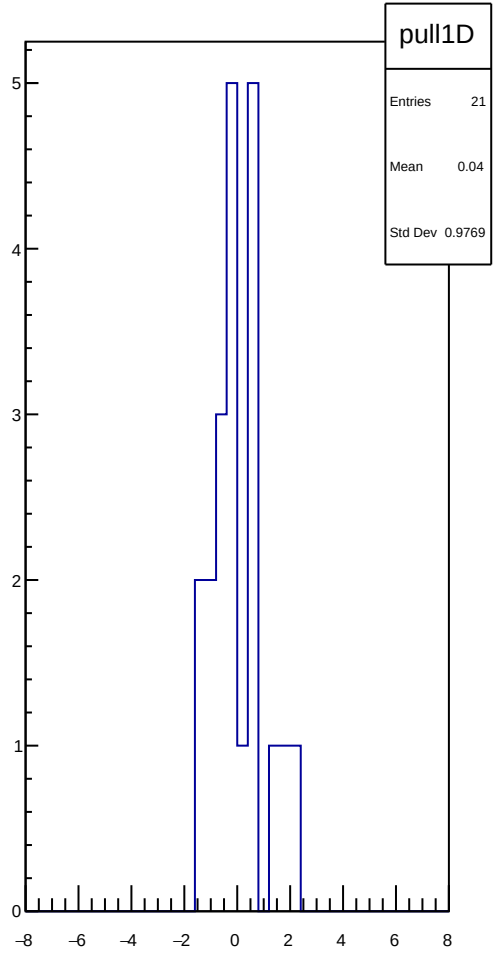

dit_asym_atr2_rms vs run
χ² / ndf 54.34 / 20
p0 4376 ± 7.03
4600
4500
4400
4300
4200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

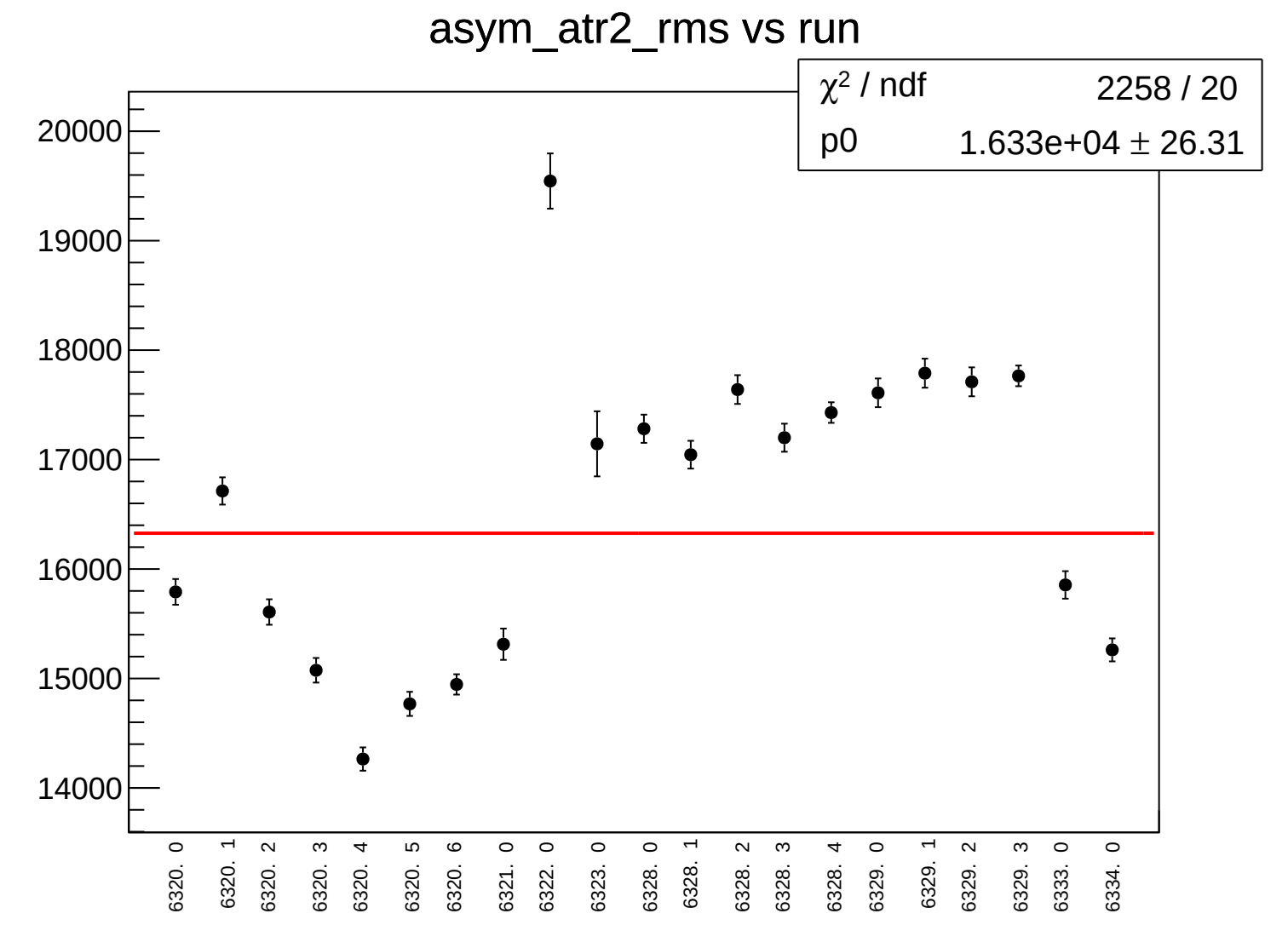

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 20.23 / 20
p0 −1.036e+04 ± 3.624e+04
400
200
0
−200
−400
−600
−800
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 30.69
Std Dev 28.14
1.5
1
0.5
0
−0.5
−1
−1.5
−2

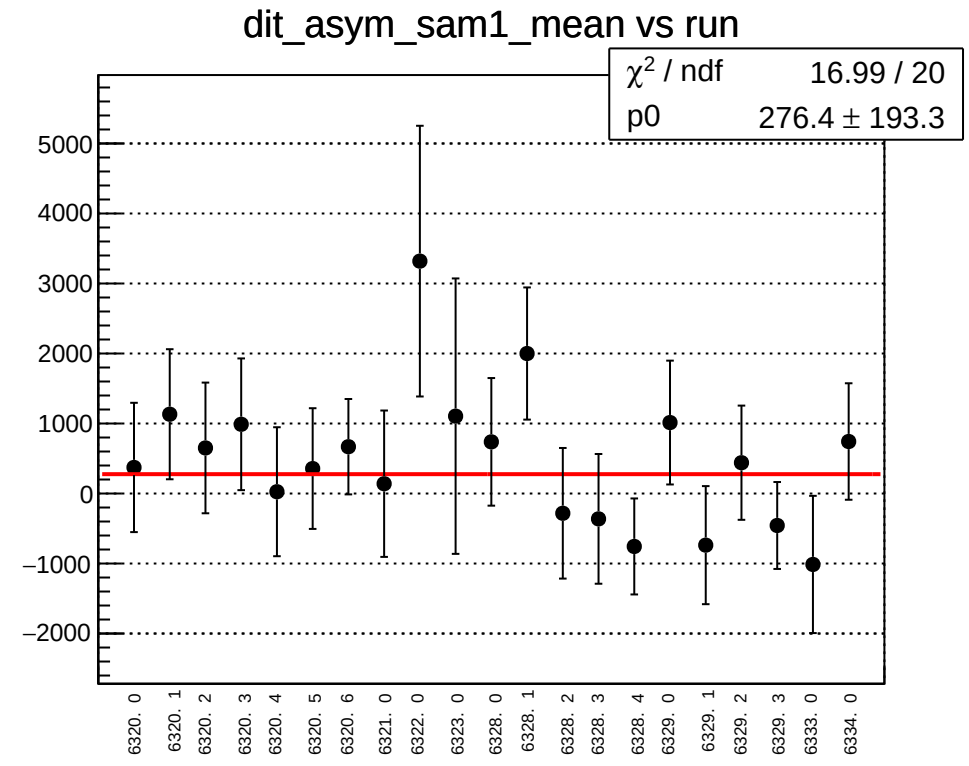

pull1D
Entries 21
Mean −0.03007
Std Dev 0.9811
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

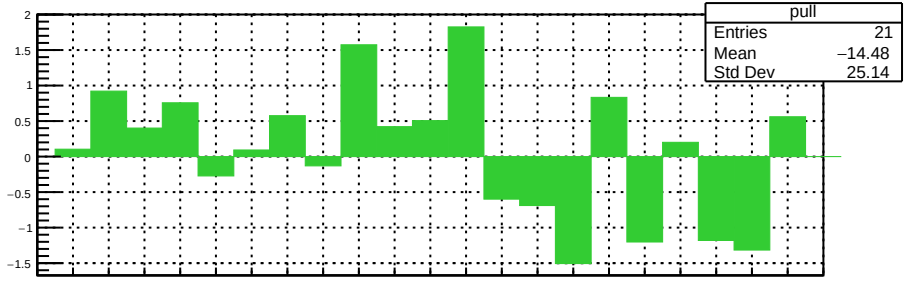

asym_atr2_correction_rms vs run
χ² / ndf 1483 / 20
p0 1.592e+04 ± 25.62
19000
18000
17000
16000
15000
14000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

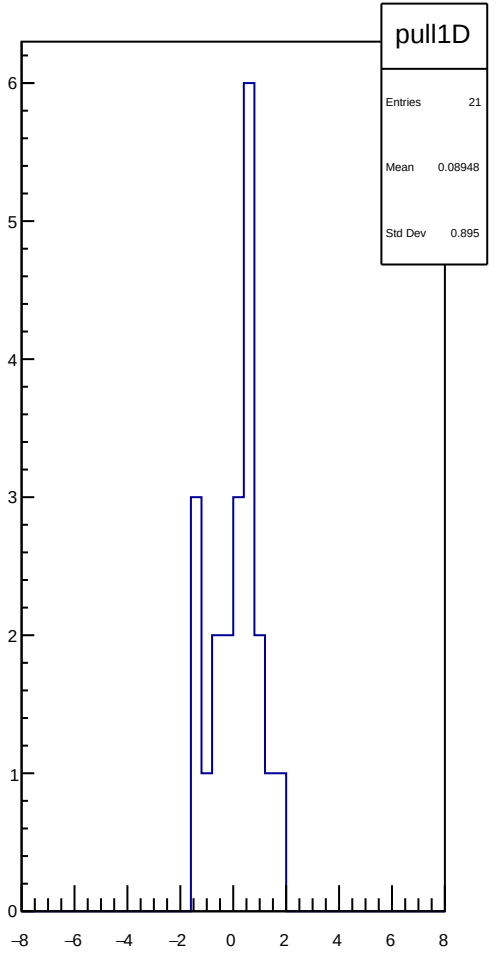

asym_atr2_mean vs run
×10^3
χ² / ndf 20.08 / 20
p0 1.247e+04 ± 3.72e+04
1200
1000
800
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 37.22
Std Dev 30.35
2
1.5
1
0.5
0
−0.5
−1
−1.5

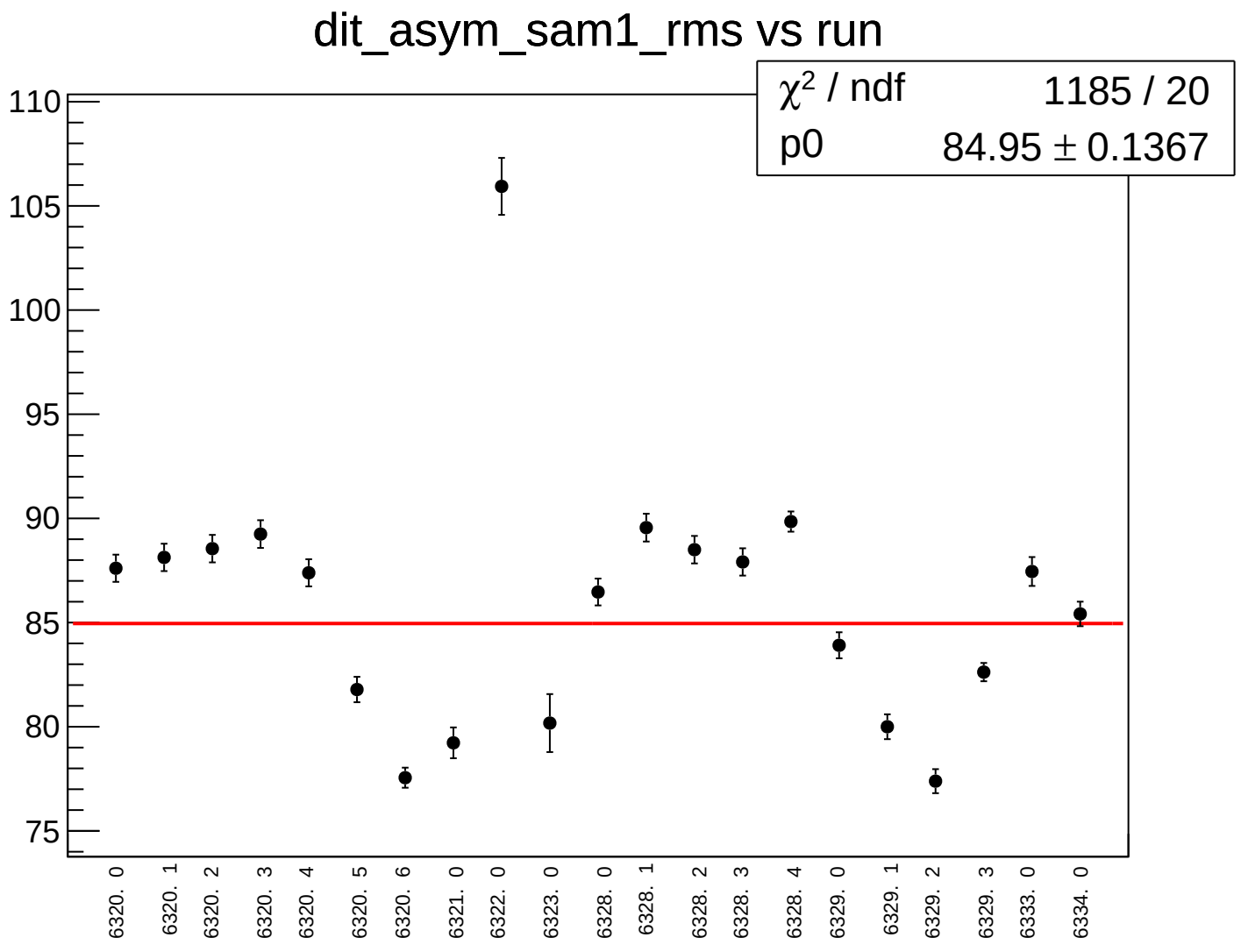

pull1D
Entries 21
Mean 0.04
Std Dev 0.9769
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

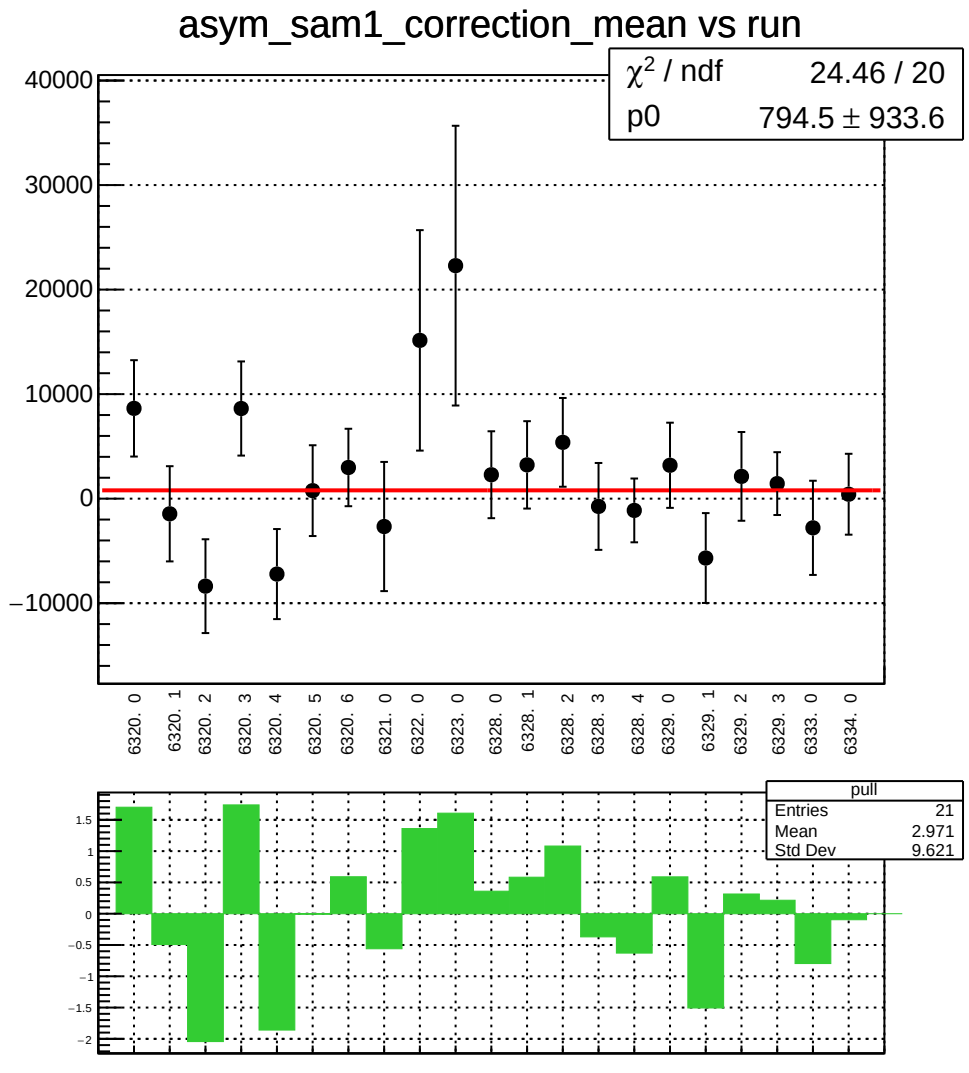

asym_atr2_rms vs run
χ² / ndf 2258 / 20
p0 1.633e+04 ± 26.31
20000
19000
18000
17000
16000
15000
14000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

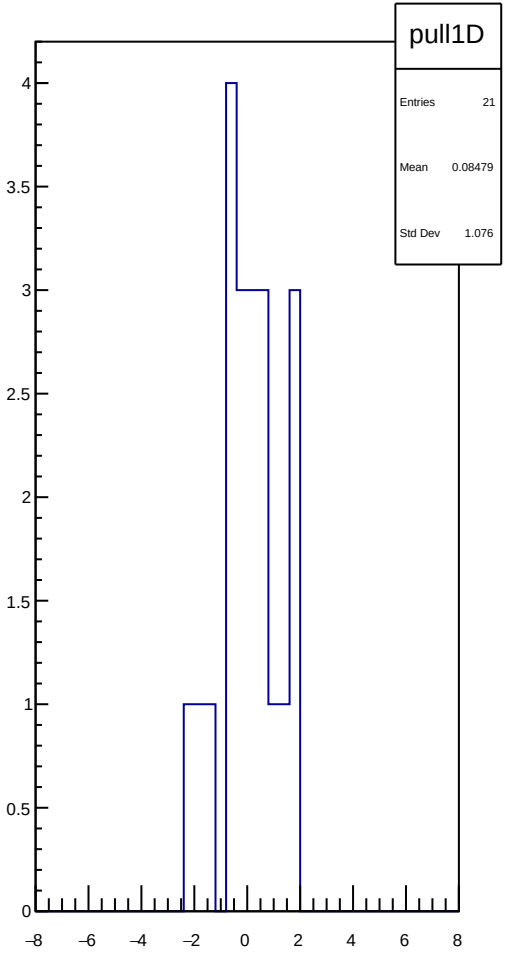

dit_asym_sam1_mean vs run
χ² / ndf 16.99 / 20
p0 276.4 ± 193.3
5000
4000
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

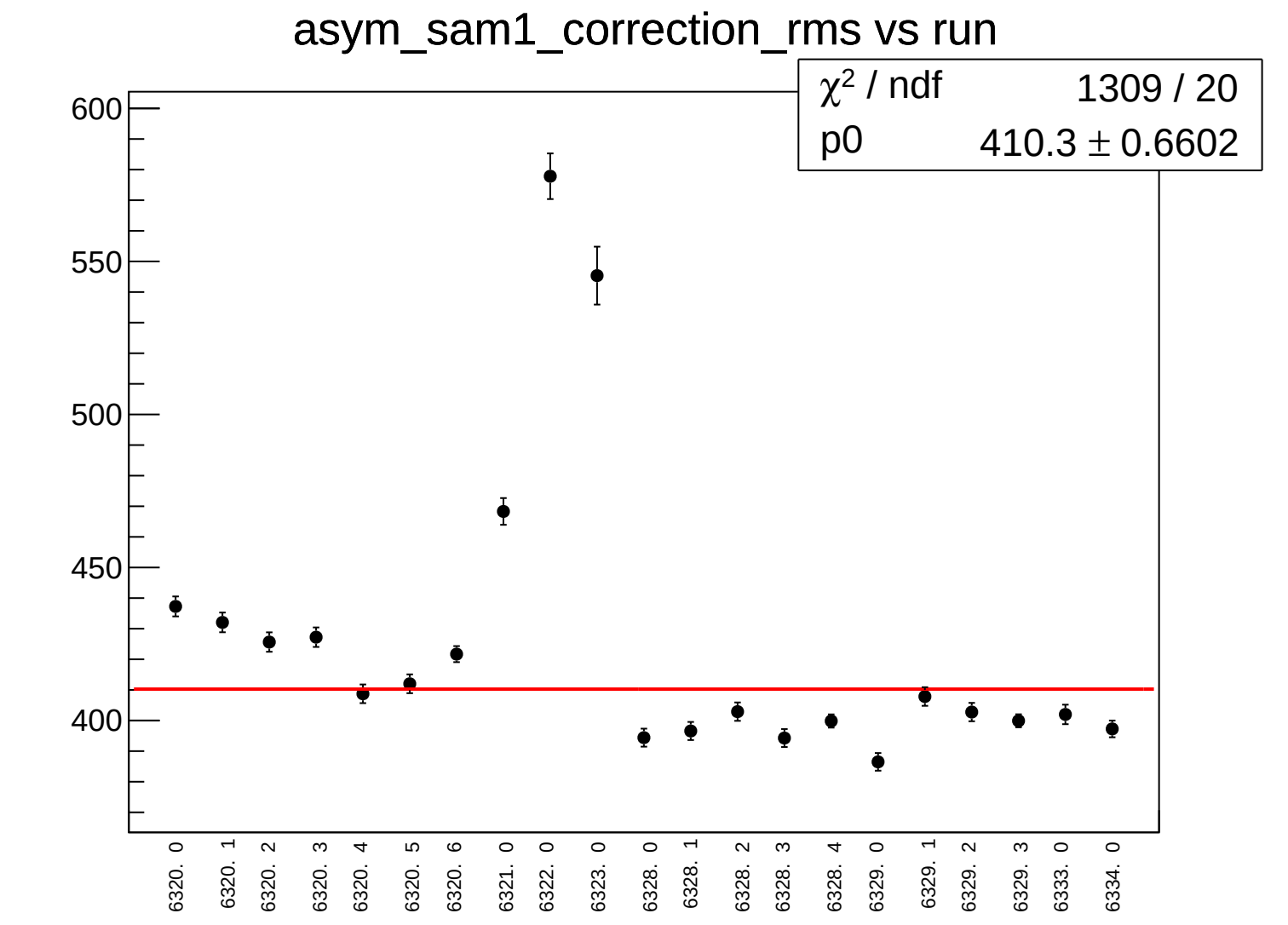

pull
Entries 21
Mean −14.48
Std Dev 25.14
2
1.5
1
0.5
0
−0.5
−1
−1.5

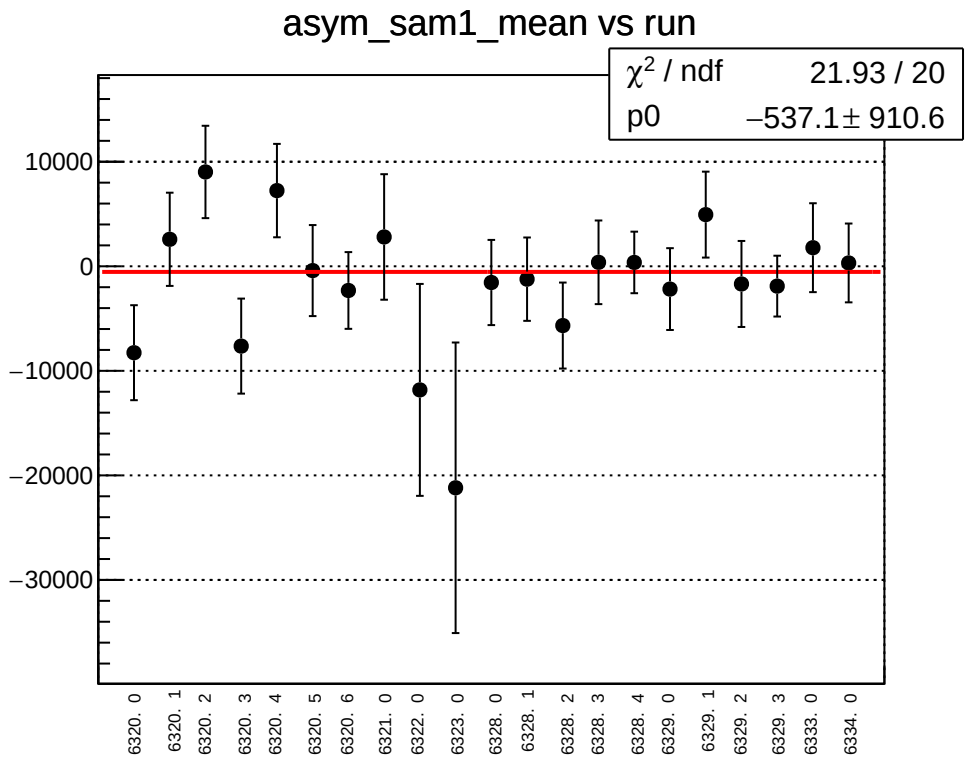

pull1D
Entries 21
Mean 0.08948
Std Dev 0.895
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

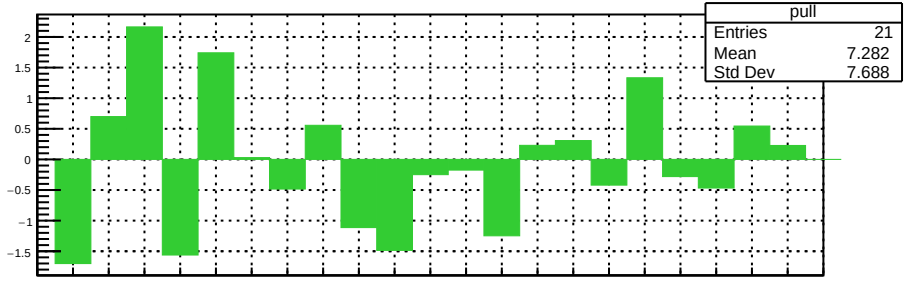

dit_asym_sam1_rms vs run
χ² / ndf 1185 / 20
p0 84.95 ± 0.1367
110
105
100
95
90
85
80
75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

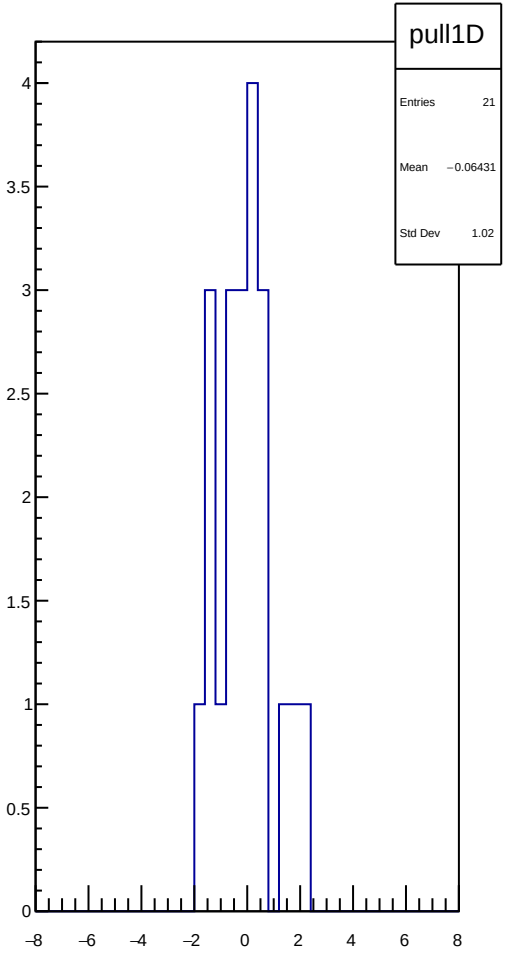

asym_sam1_correction_mean vs run
χ² / ndf 24.46 / 20
p0 794.5 ± 933.6
40000
30000
20000
10000
0
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2.971
Std Dev 9.621
1.5
1
0.5
0
−0.5
−1
−1.5
−2

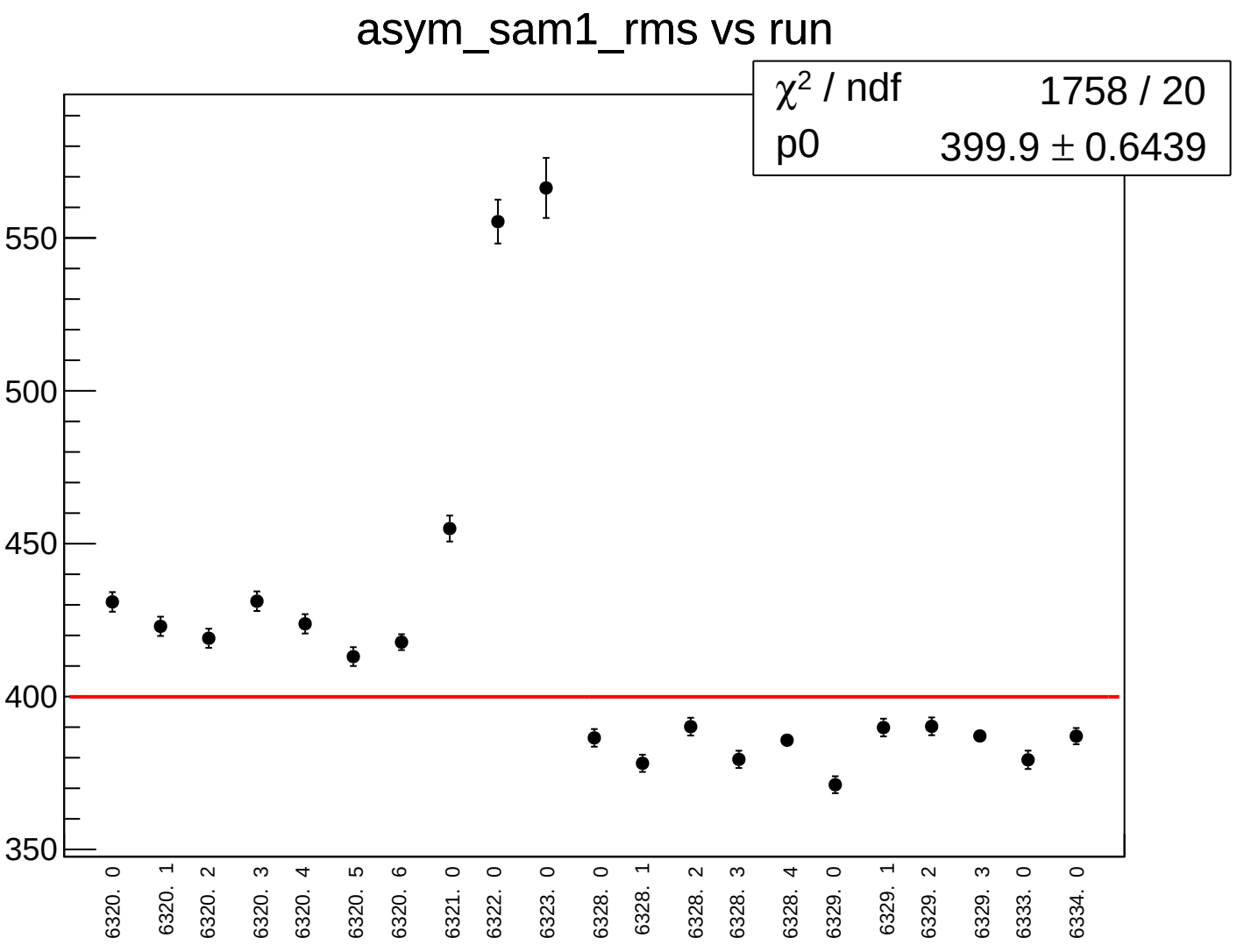

pull1D
Entries 21
Mean 0.08479
Std Dev 1.076
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

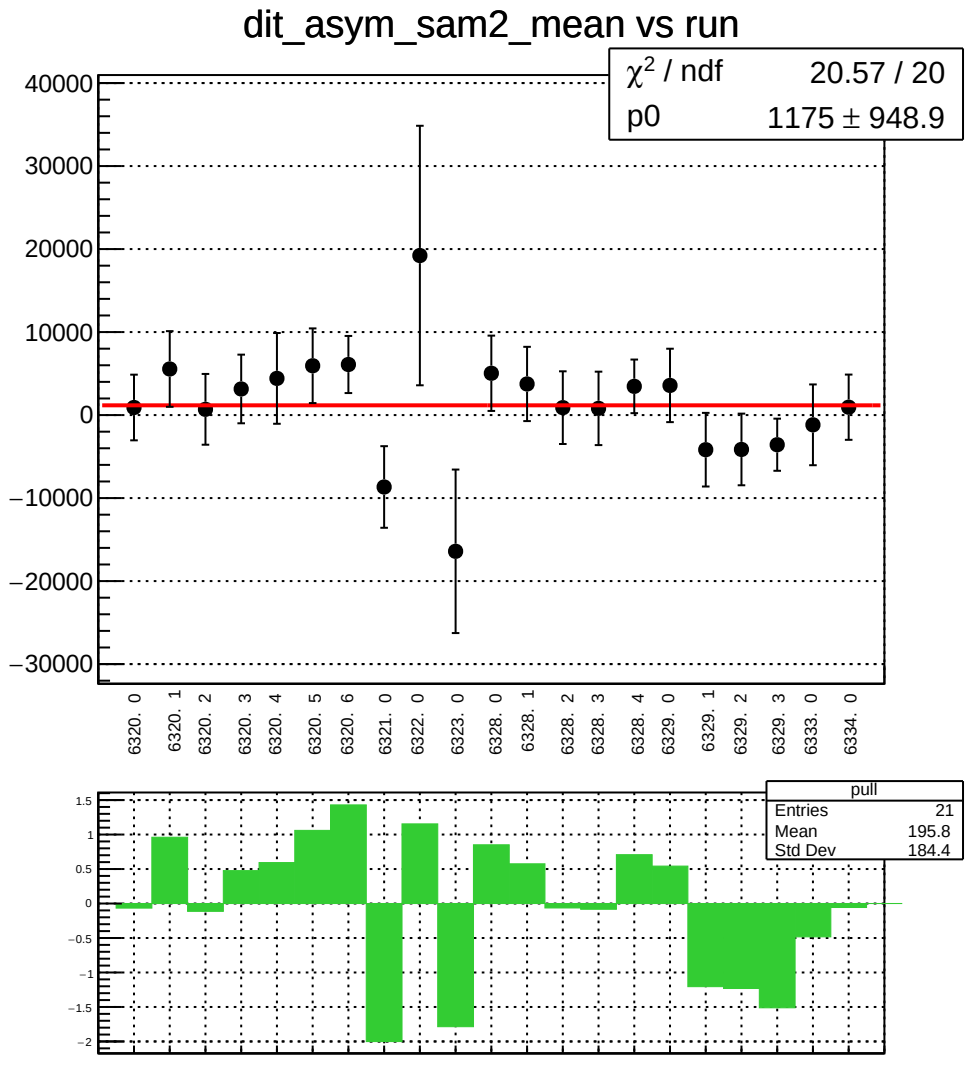

asym_sam1_correction_rms vs run
χ² / ndf 1309 / 20
p0 410.3 ± 0.6602
600
550
500
450
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

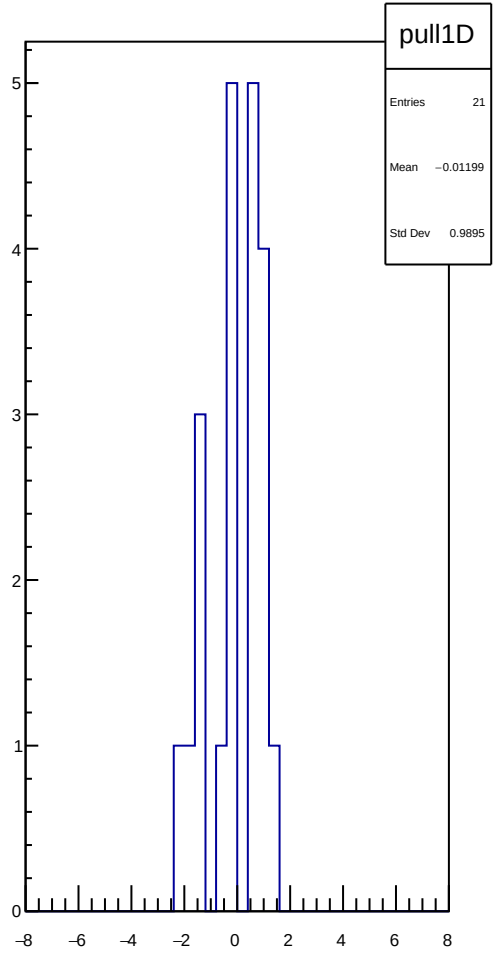

asym_sam1_mean vs run
χ² / ndf 21.93 / 20
p0 −537.1± 910.6
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

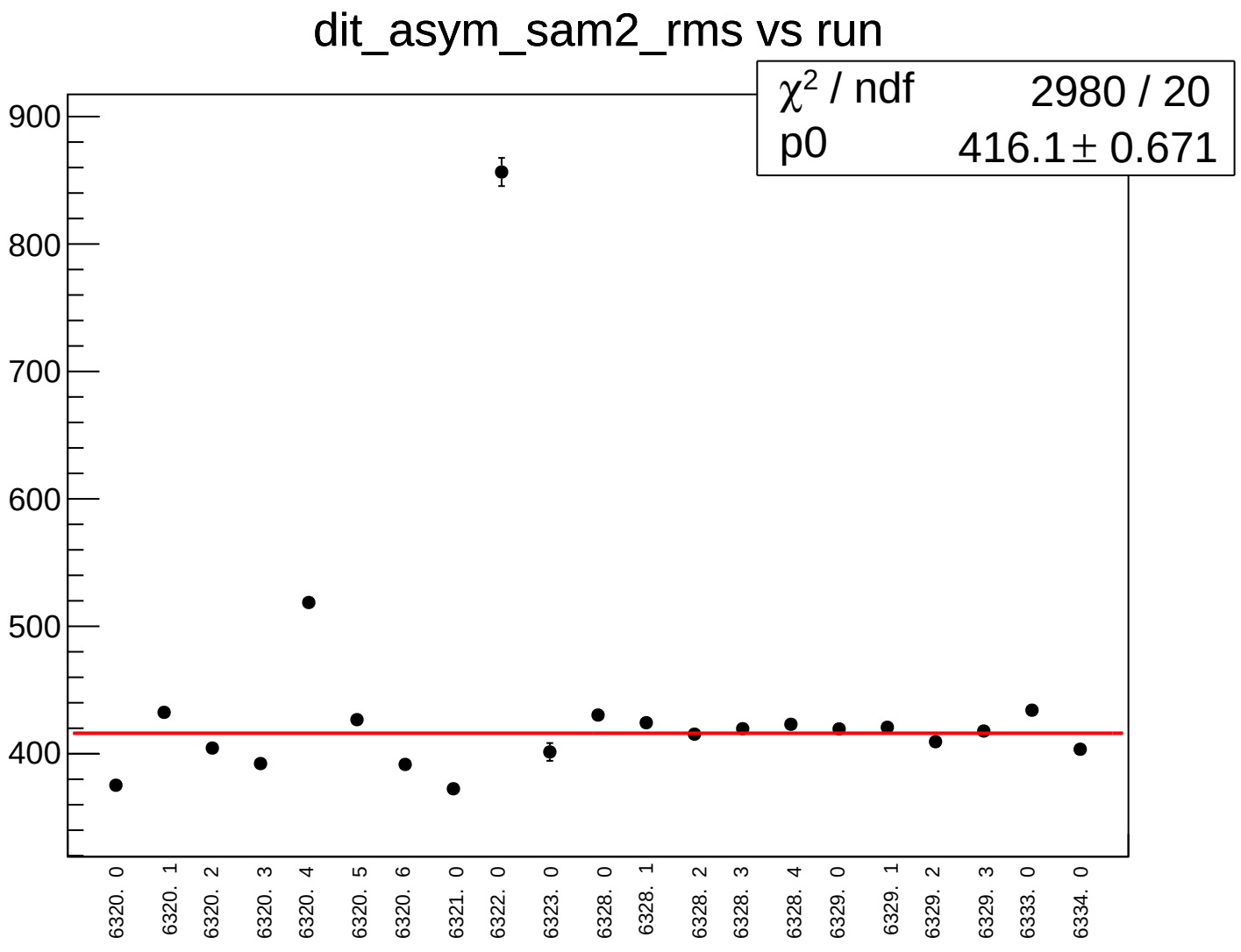

pull
Entries 21
Mean 7.282
Std Dev 7.688
2
1.5
1
0.5
0
−0.5
−1
−1.5

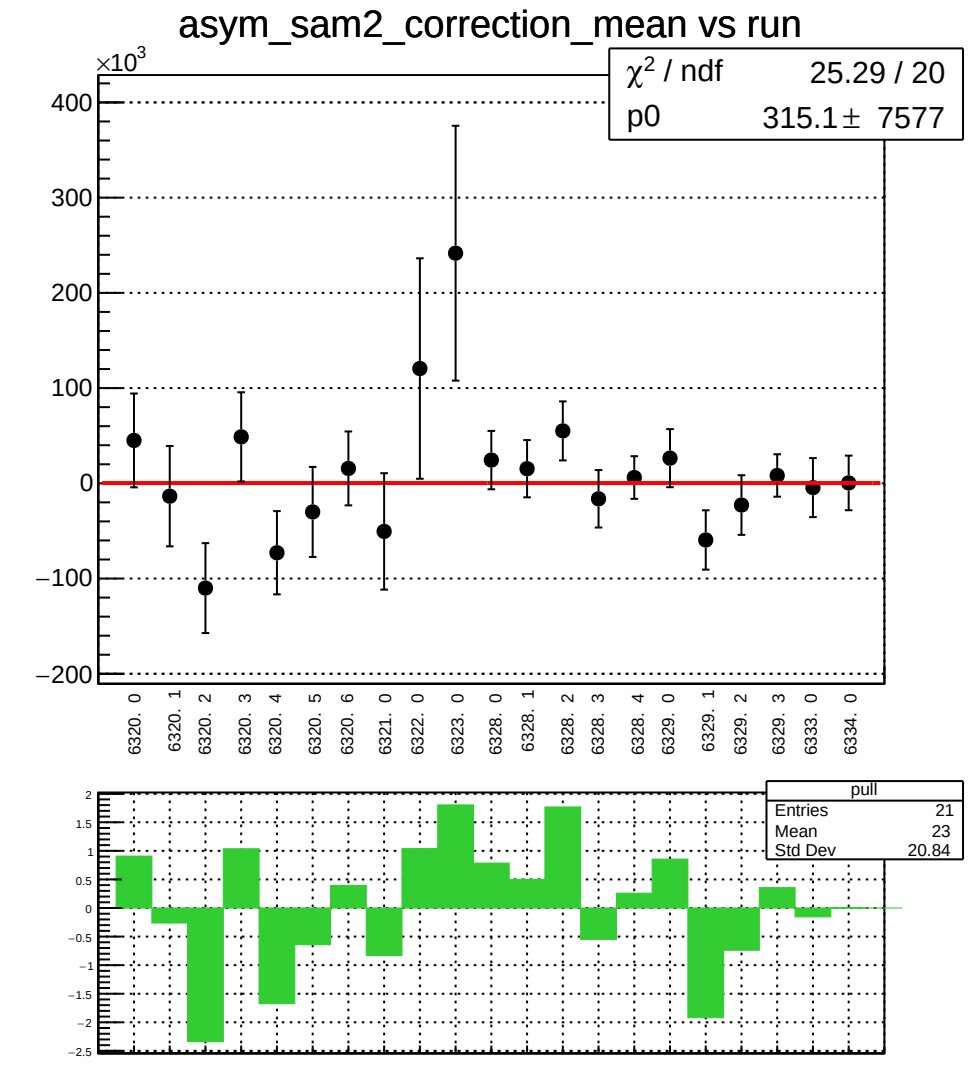

pull1D
Entries 21
Mean −0.06431
Std Dev 1.02
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

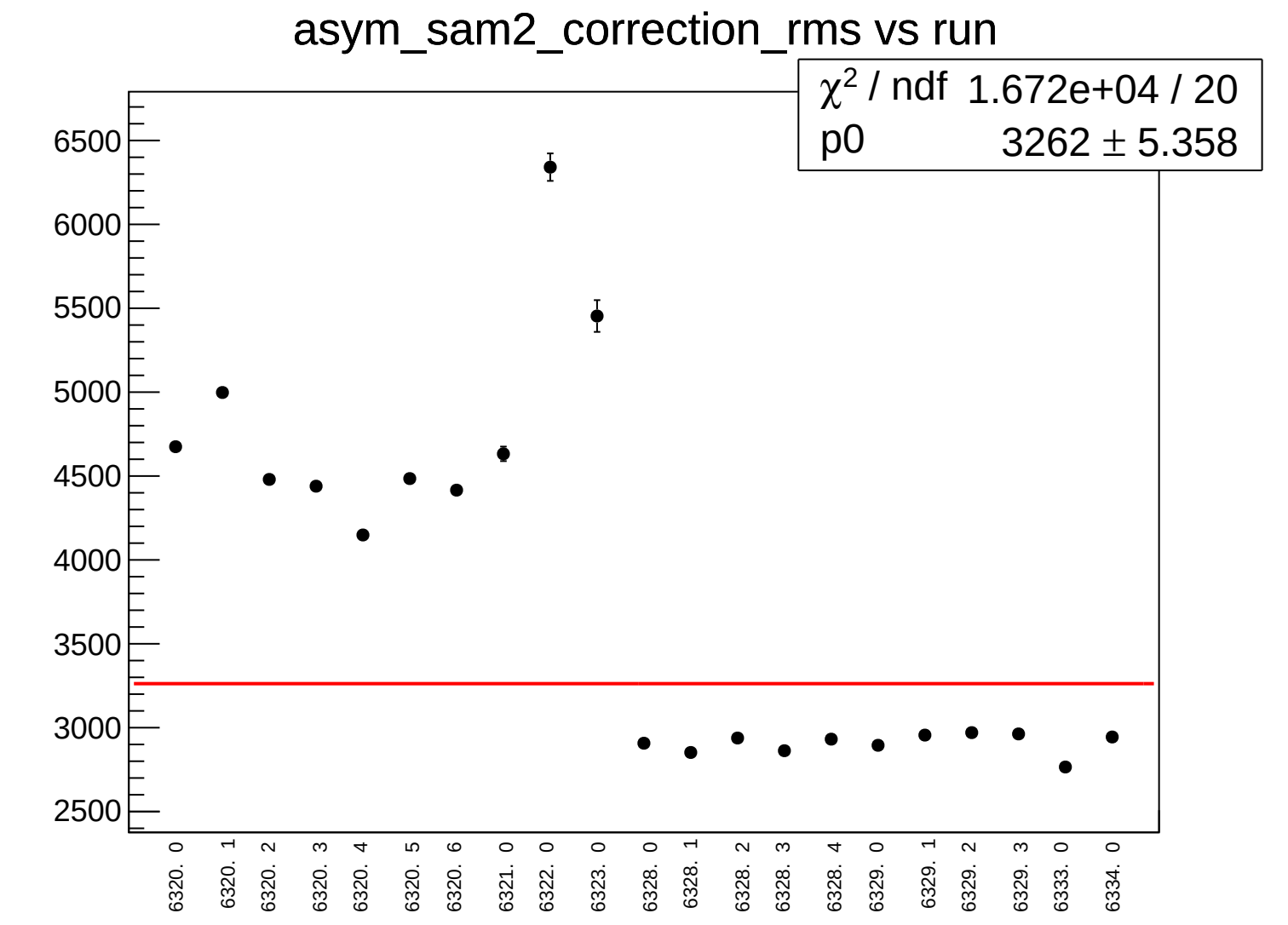

asym_sam1_rms vs run
χ² / ndf 1758 / 20
p0 399.9 ± 0.6439
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

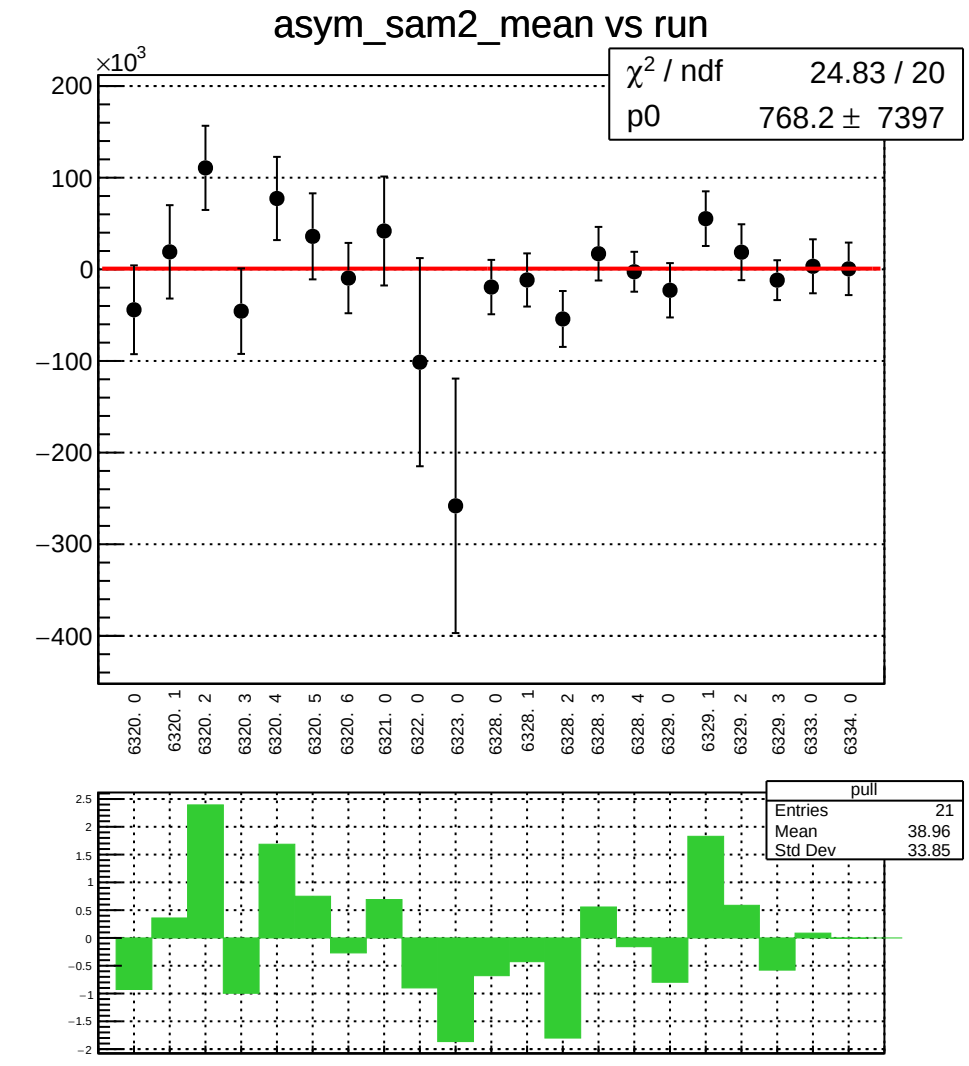

dit_asym_sam2_mean vs run
χ² / ndf 20.57 / 20
p0 1175 ± 948.9
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 195.8
Std Dev 184.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

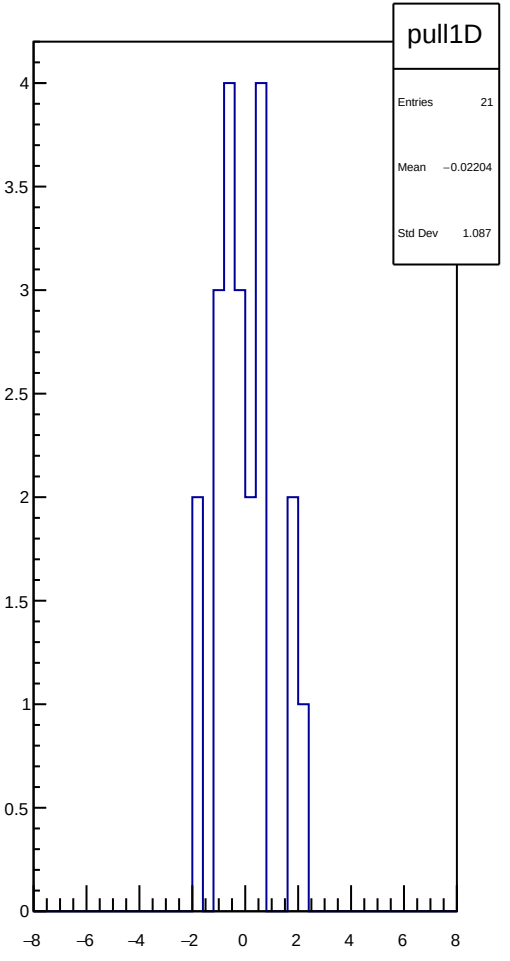

pull1D
Entries 21
Mean −0.01199
Std Dev 0.9895
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

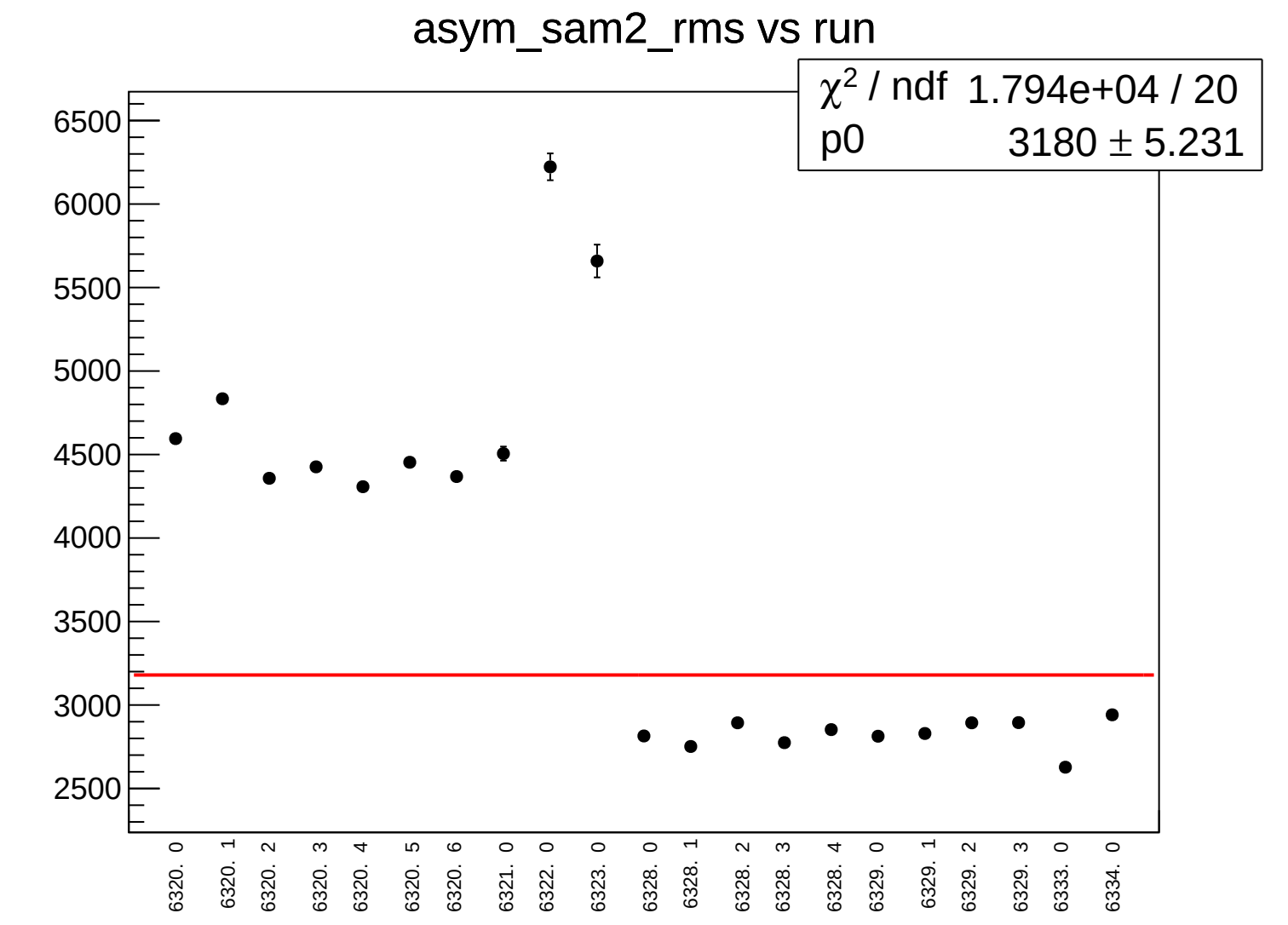

dit_asym_sam2_rms vs run
χ² / ndf 2980 / 20
p0 416.1 ± 0.671
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

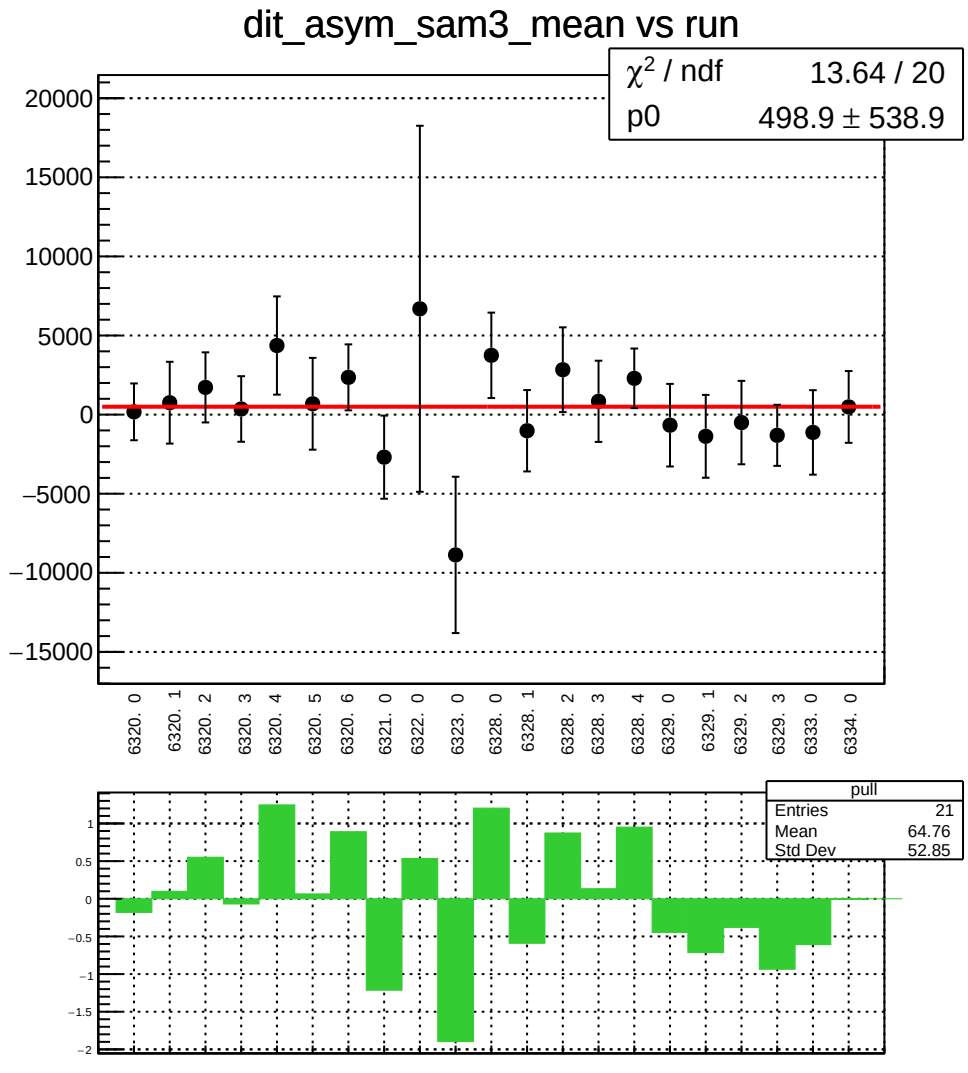

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 25.29 / 20
p0 315.1 ± 7577
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 23
Std Dev 20.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean 0.02866
Std Dev 1.097
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

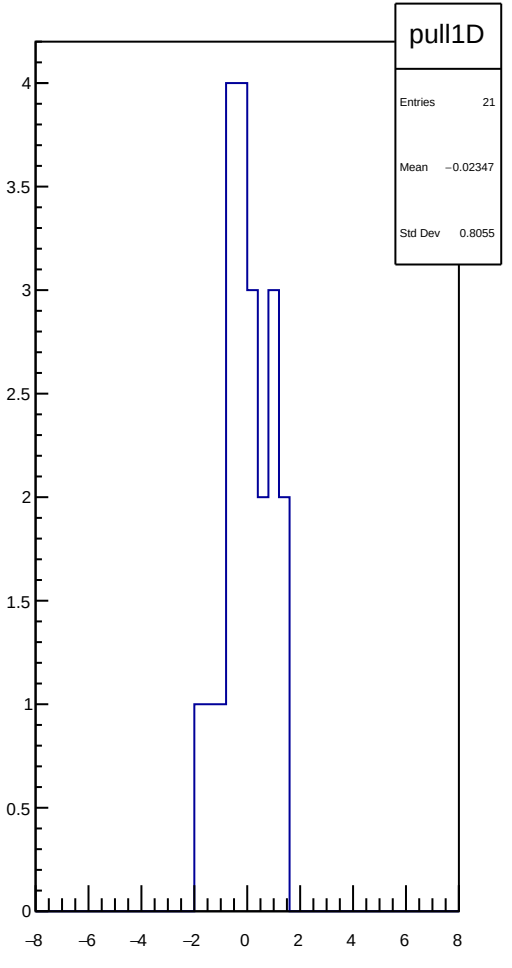

asym_sam2_correction_rms vs run
χ² / ndf 1.672e+04 / 20
p0 3262 ± 5.358
6500
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

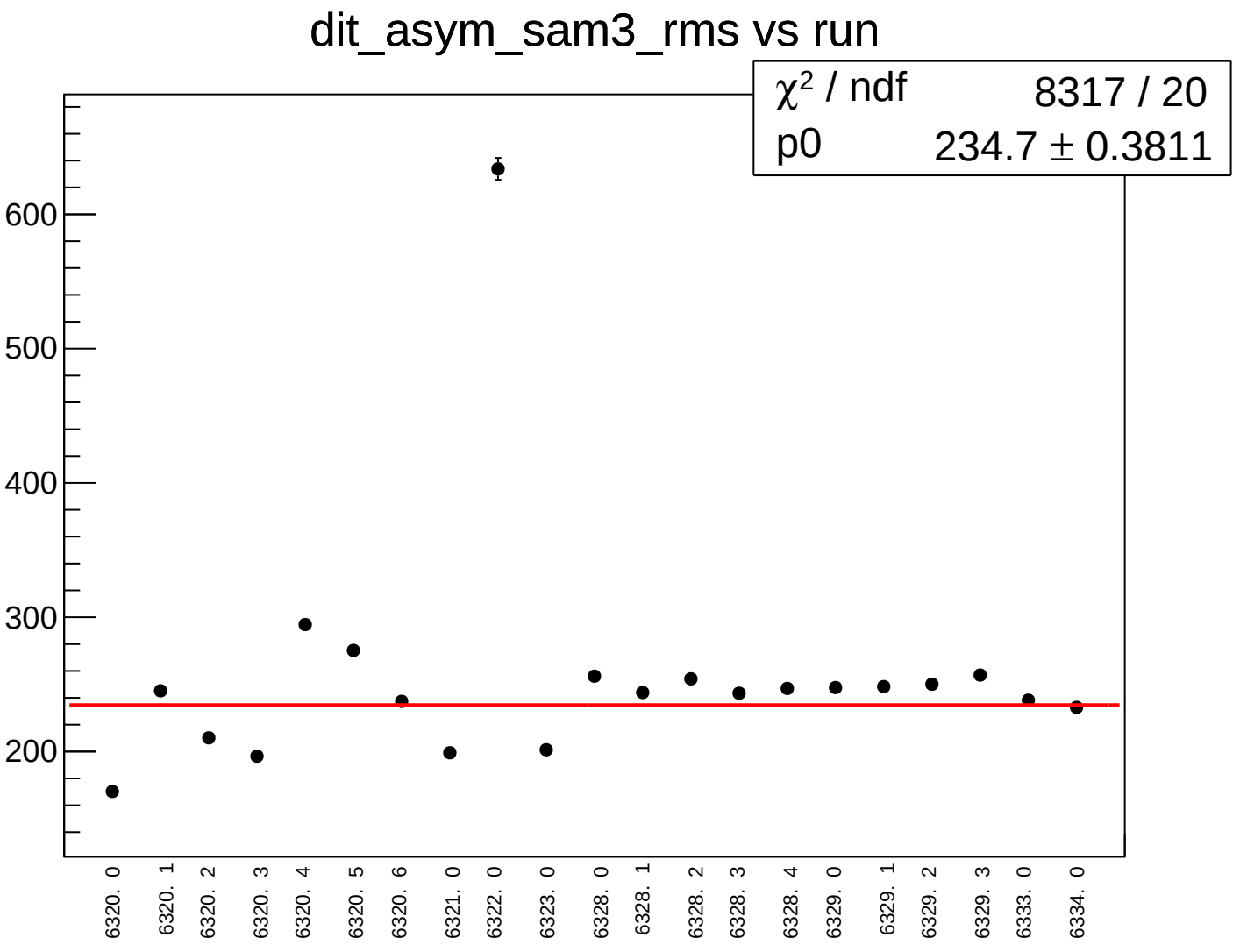

asym_sam2_mean vs run
×10^3
χ^2 / ndf 24.83 / 20
p0 768.2 ± 7397
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.96
Std Dev 33.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

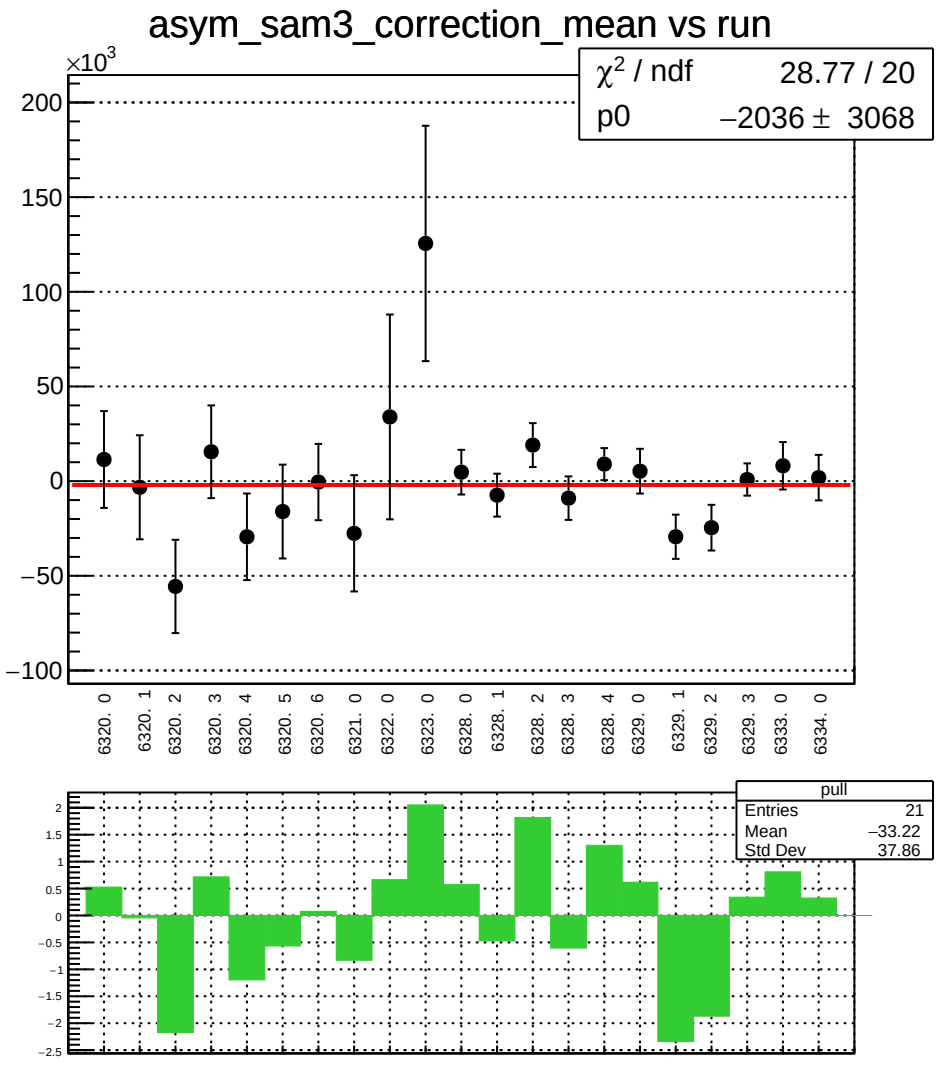

pull1D
Entries 21
Mean −0.02204
Std Dev 1.087
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

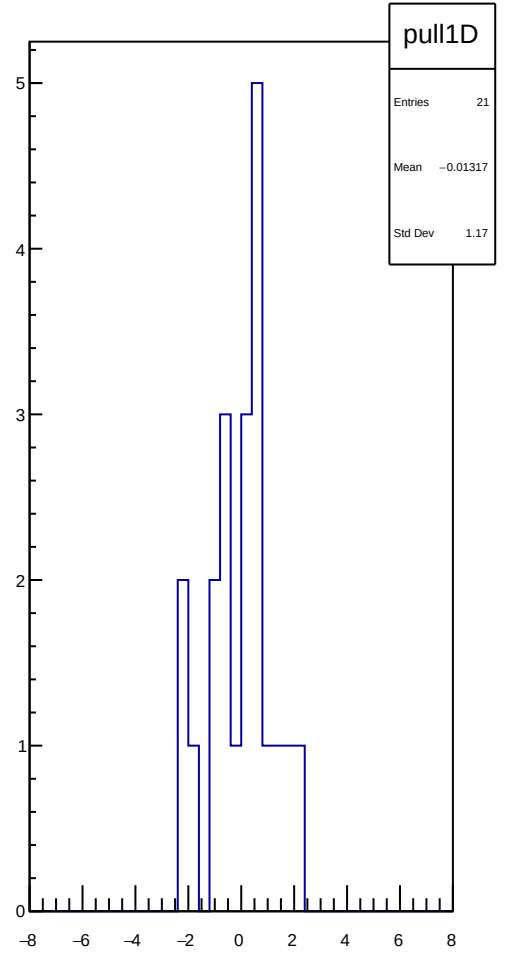

asym_sam2_rms vs run
χ² / ndf 1.794e+04 / 20
p0 3180 ± 5.231
6500
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

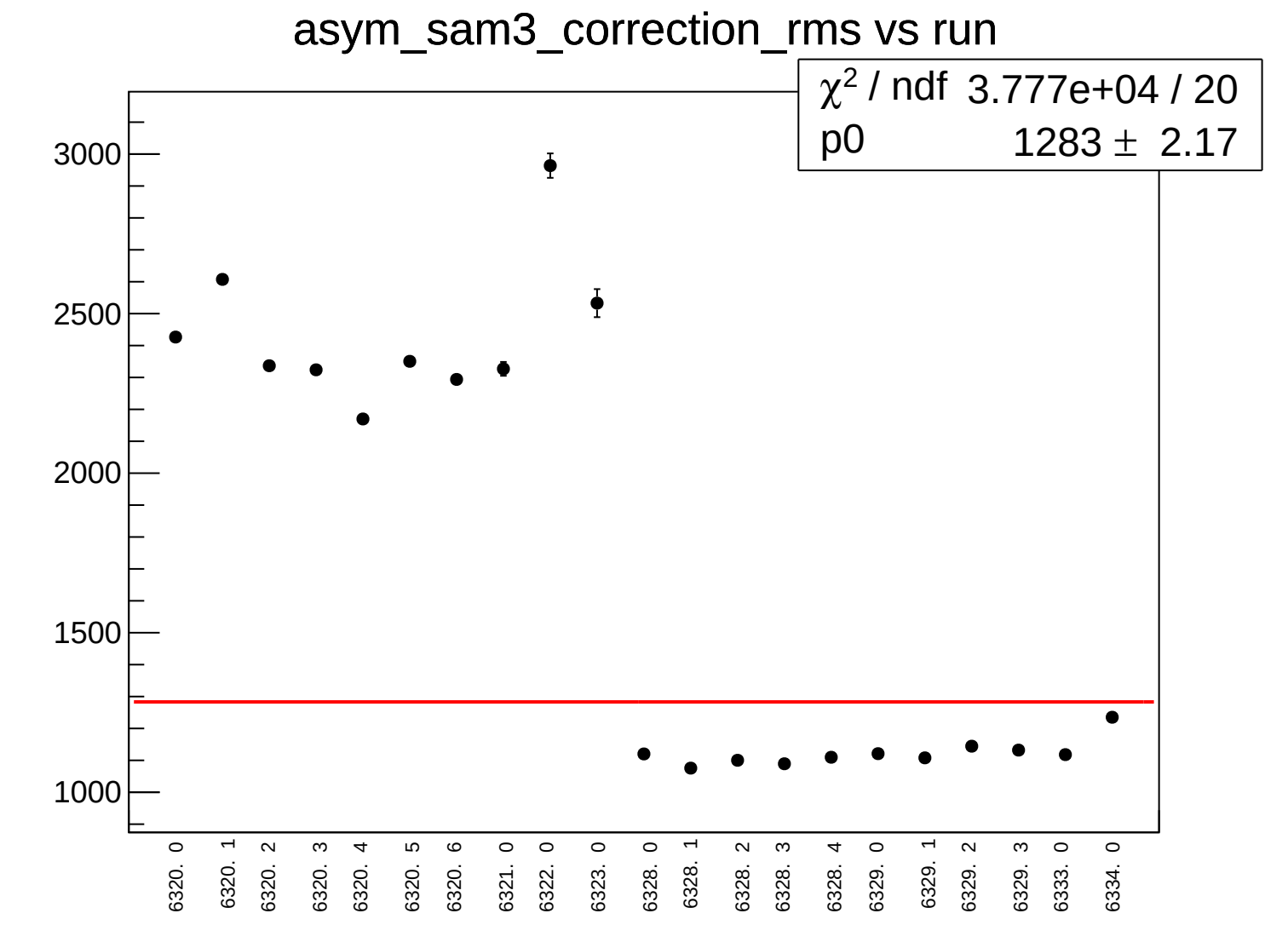

dit_asym_sam3_mean vs run
χ² / ndf 13.64 / 20
p0 498.9 ± 538.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 64.76
Std Dev 52.85
1
0.5
0
−0.5
−1
−1.5
−2

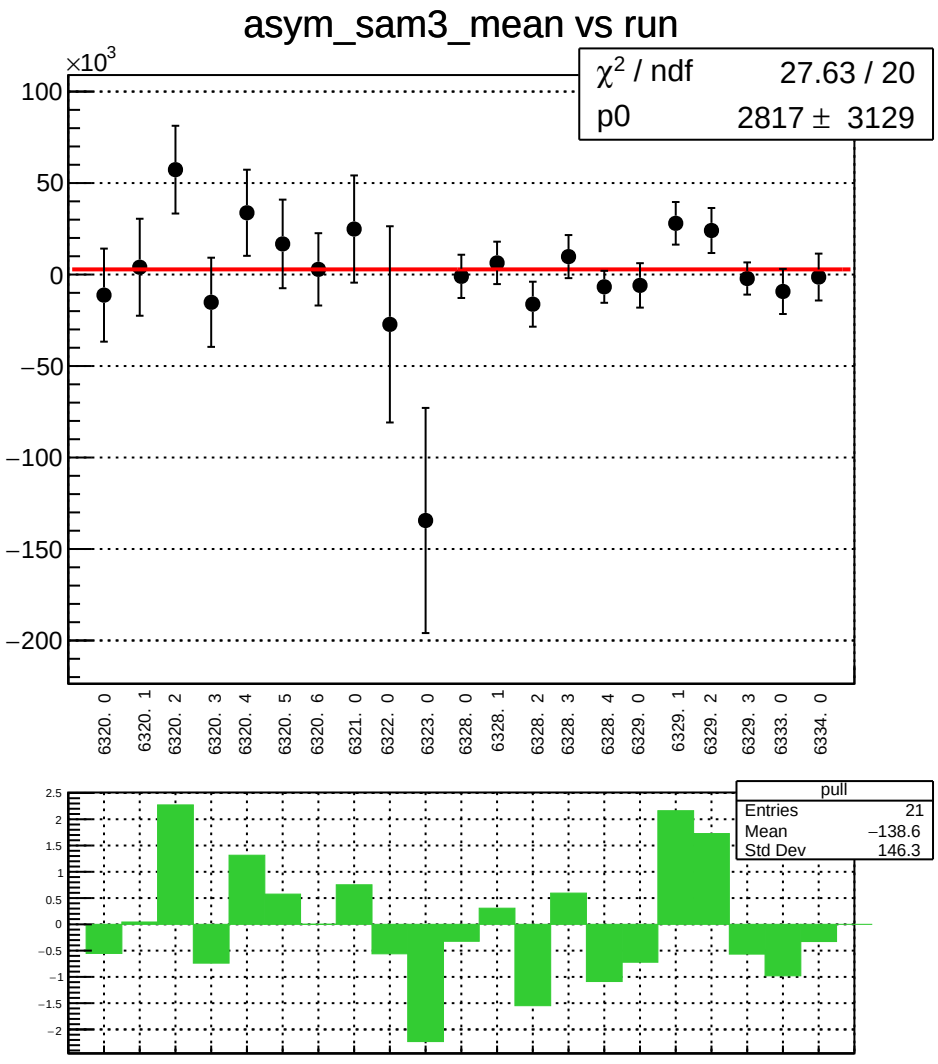

pull1D
Entries 21
Mean −0.02347
Std Dev 0.8055
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

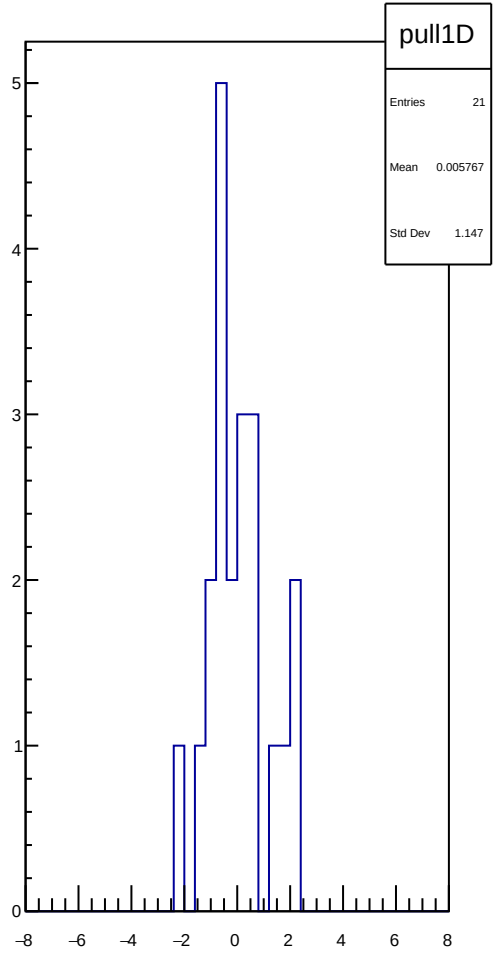

dit_asym_sam3_rms vs run
χ² / ndf 8317 / 20
p0 234.7 ± 0.3811
600
500
400
300
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

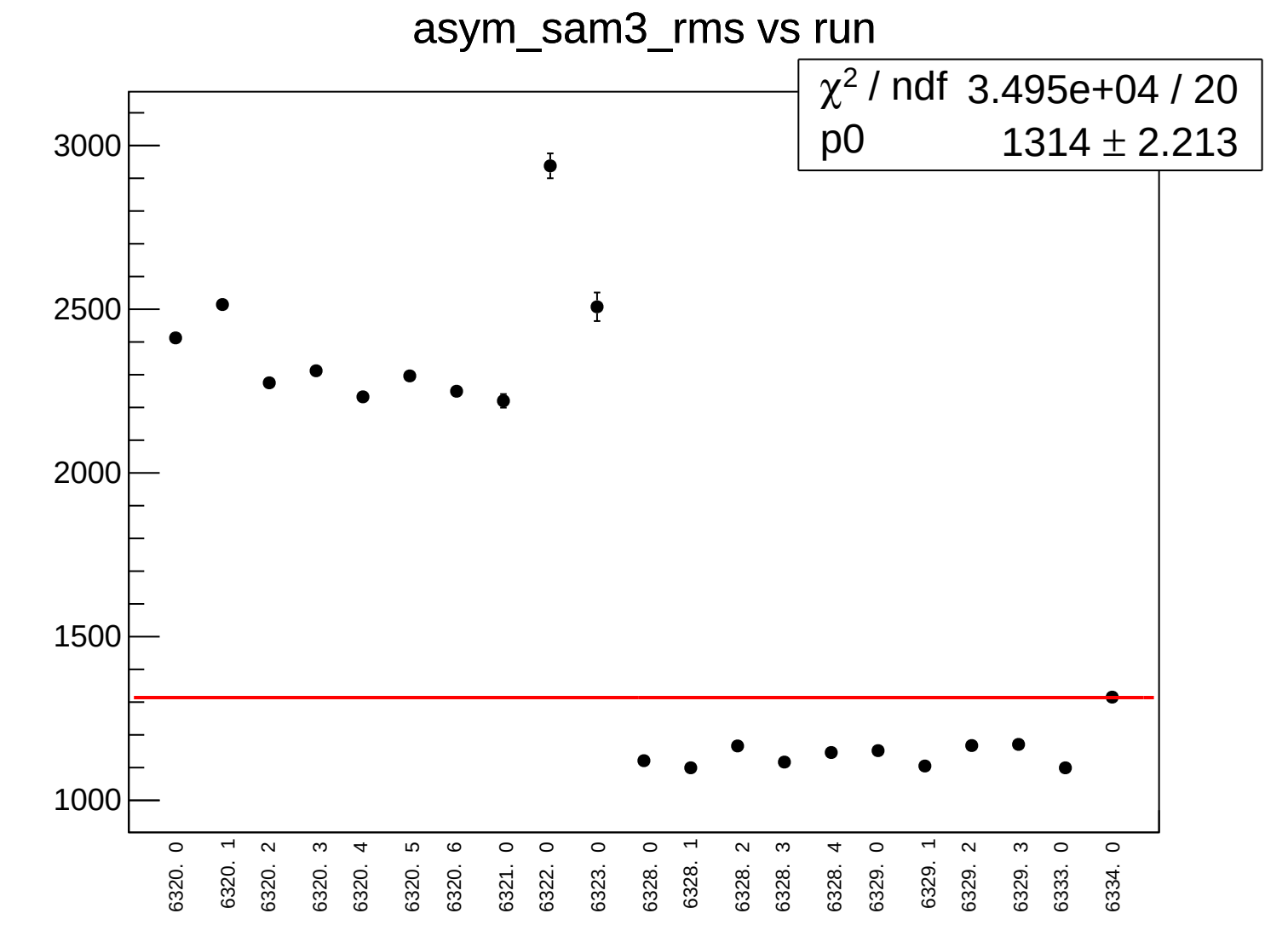

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 28.77 / 20
p0 −2036 ± 3068
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −33.22
Std Dev 37.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

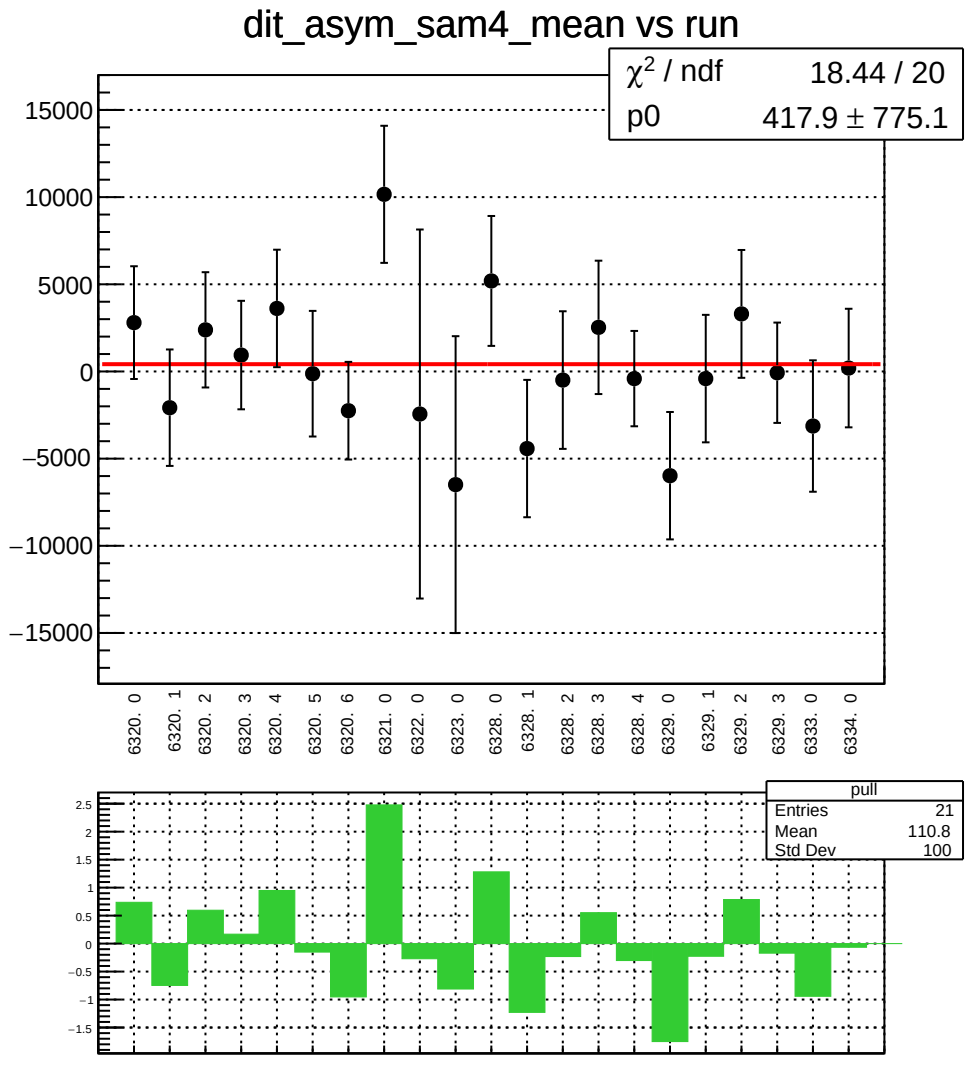

pull1D
Entries 21
Mean −0.01317
Std Dev 1.17
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

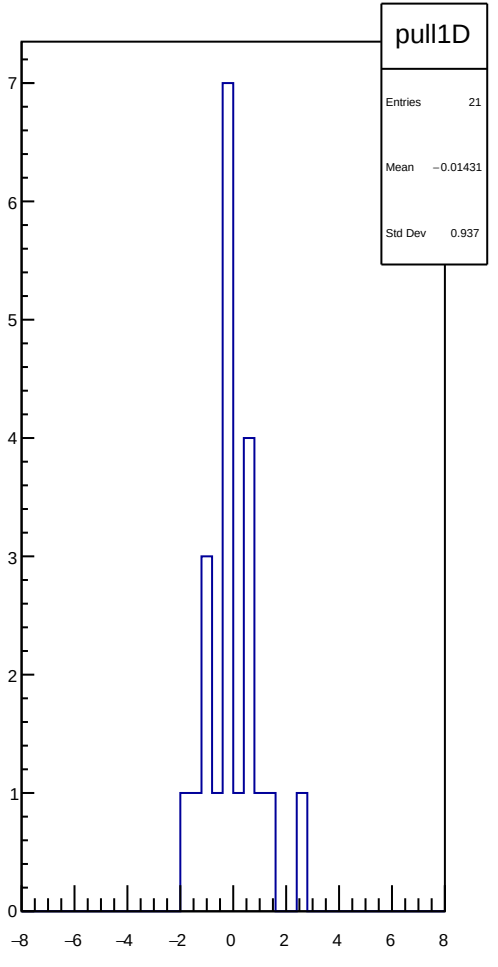

asym_sam3_correction_rms vs run
χ² / ndf 3.777e+04 / 20
p0 1283 ± 2.17
3000
2500
2000
1500
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

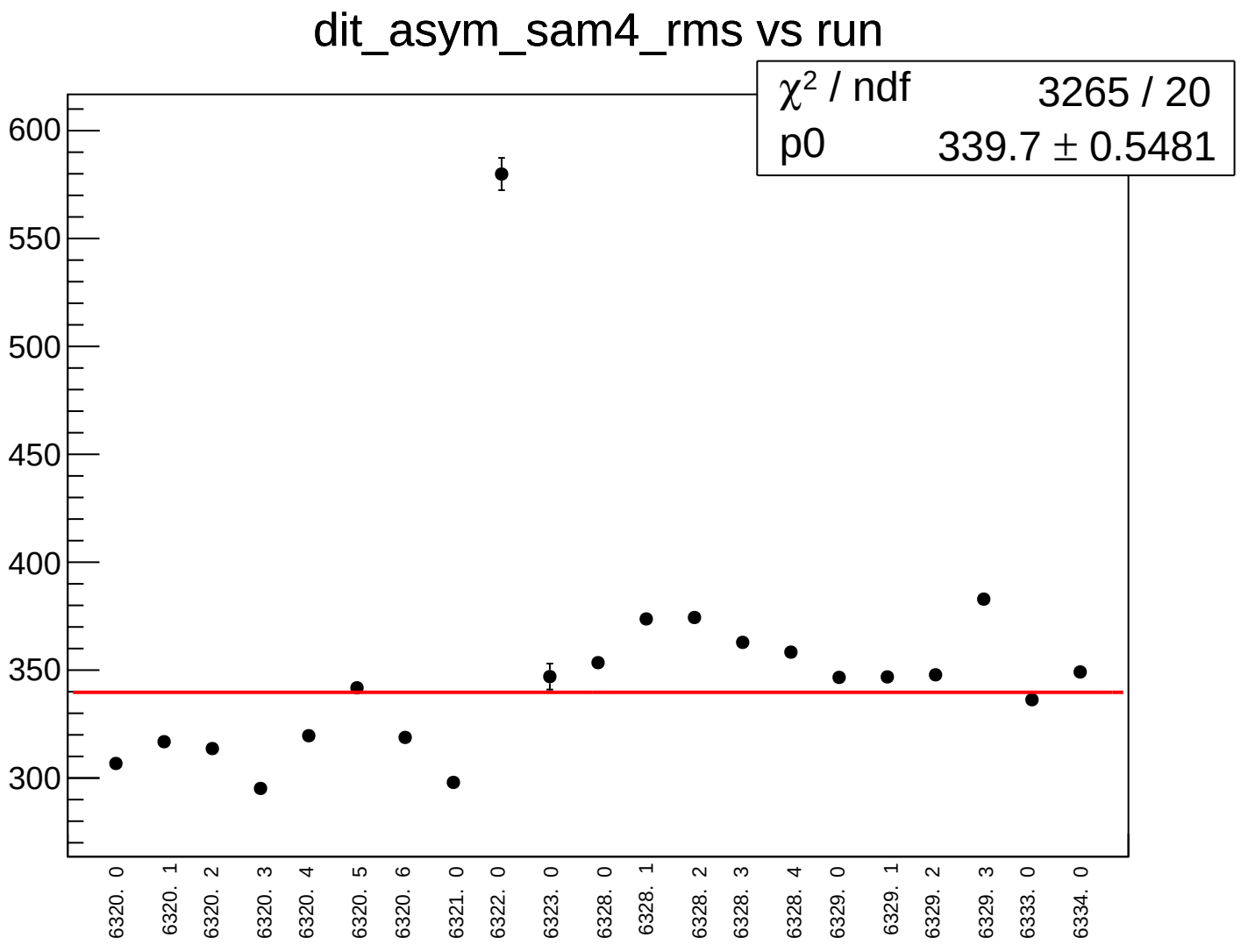

asym_sam3_mean vs run
×10^3
χ^2 / ndf 27.63 / 20
p0 2817 ± 3129
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −138.6
Std Dev 146.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

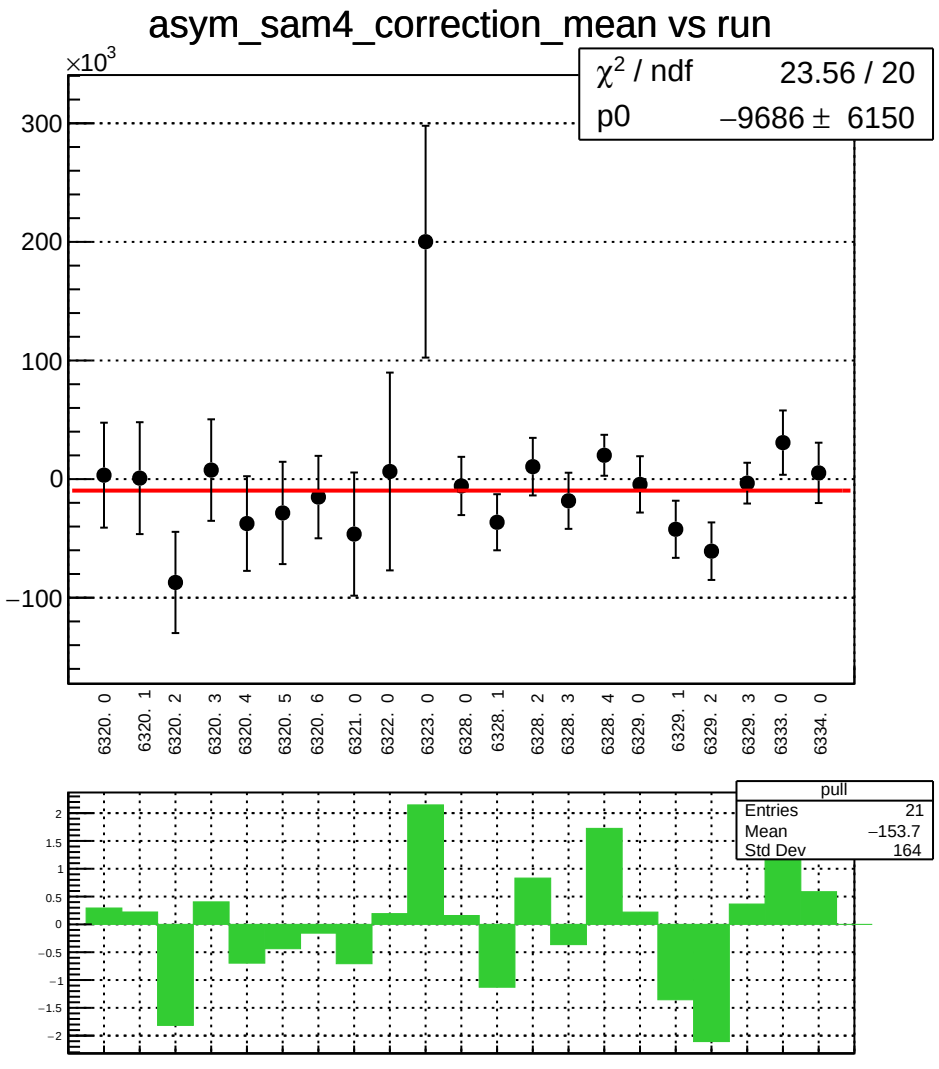

pull1D
Entries 21
Mean 0.005767
Std Dev 1.147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

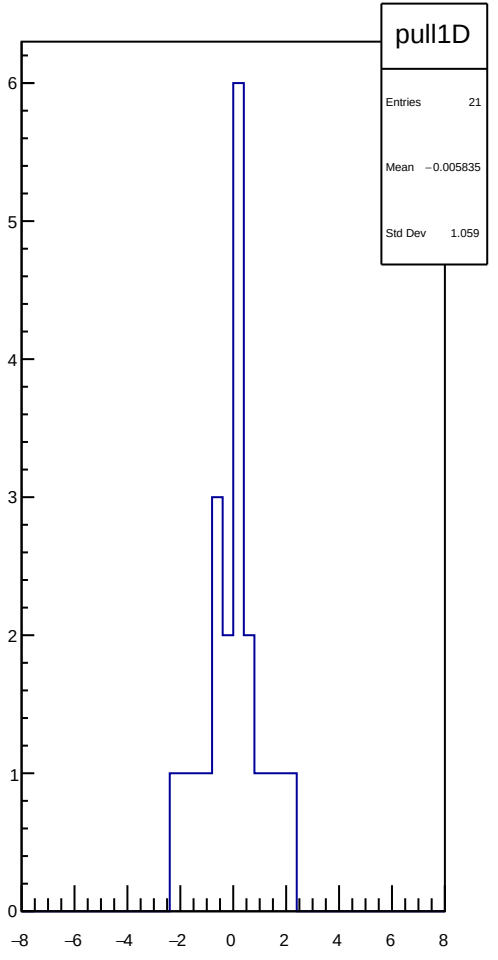

asym_sam3_rms vs run
χ² / ndf 3.495e+04 / 20
p0 1314 ± 2.213
3000
2500
2000
1500
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

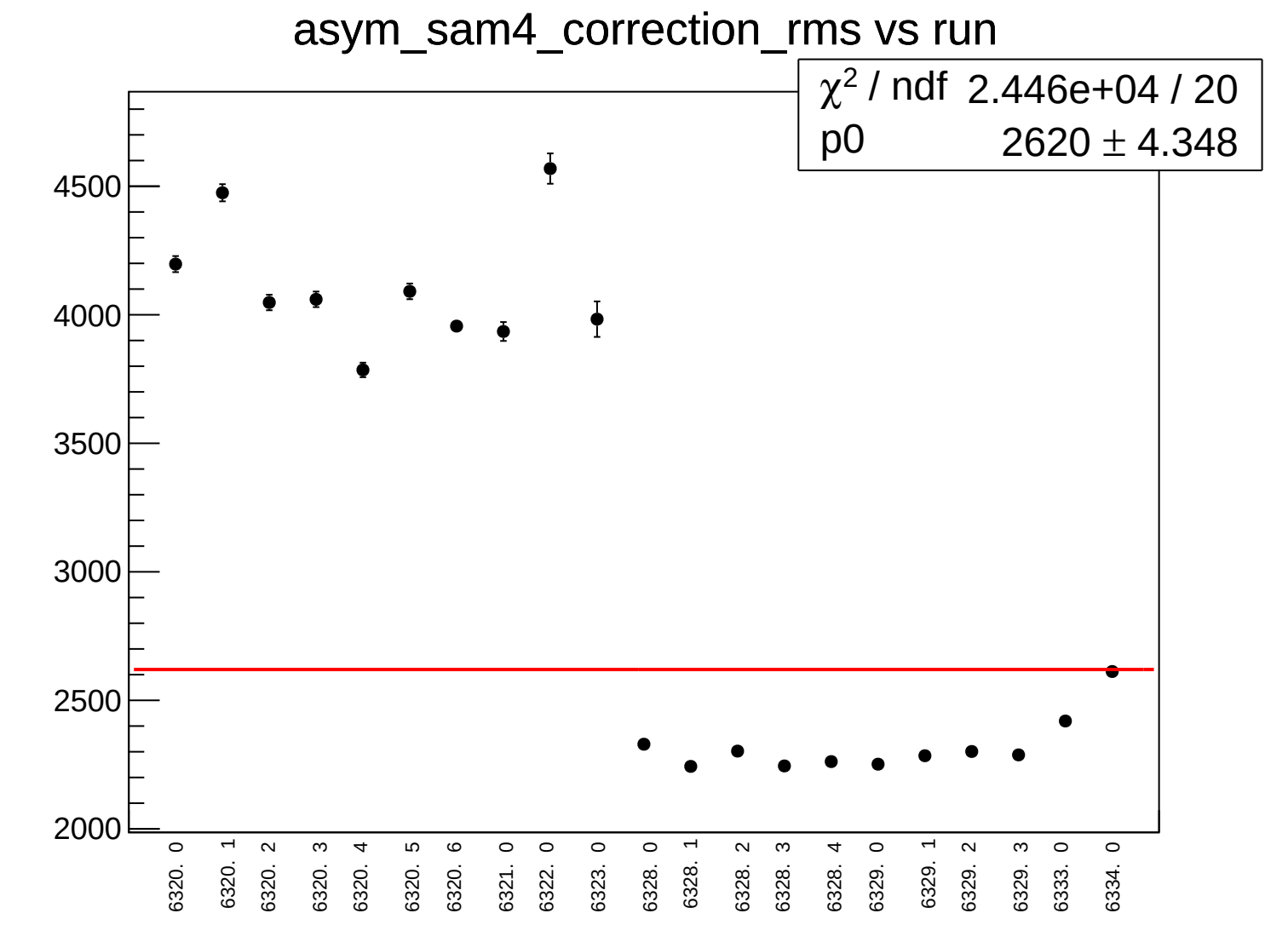

dit_asym_sam4_mean vs run
χ² / ndf 18.44 / 20
p0 417.9 ± 775.1
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 110.8
Std Dev 100
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

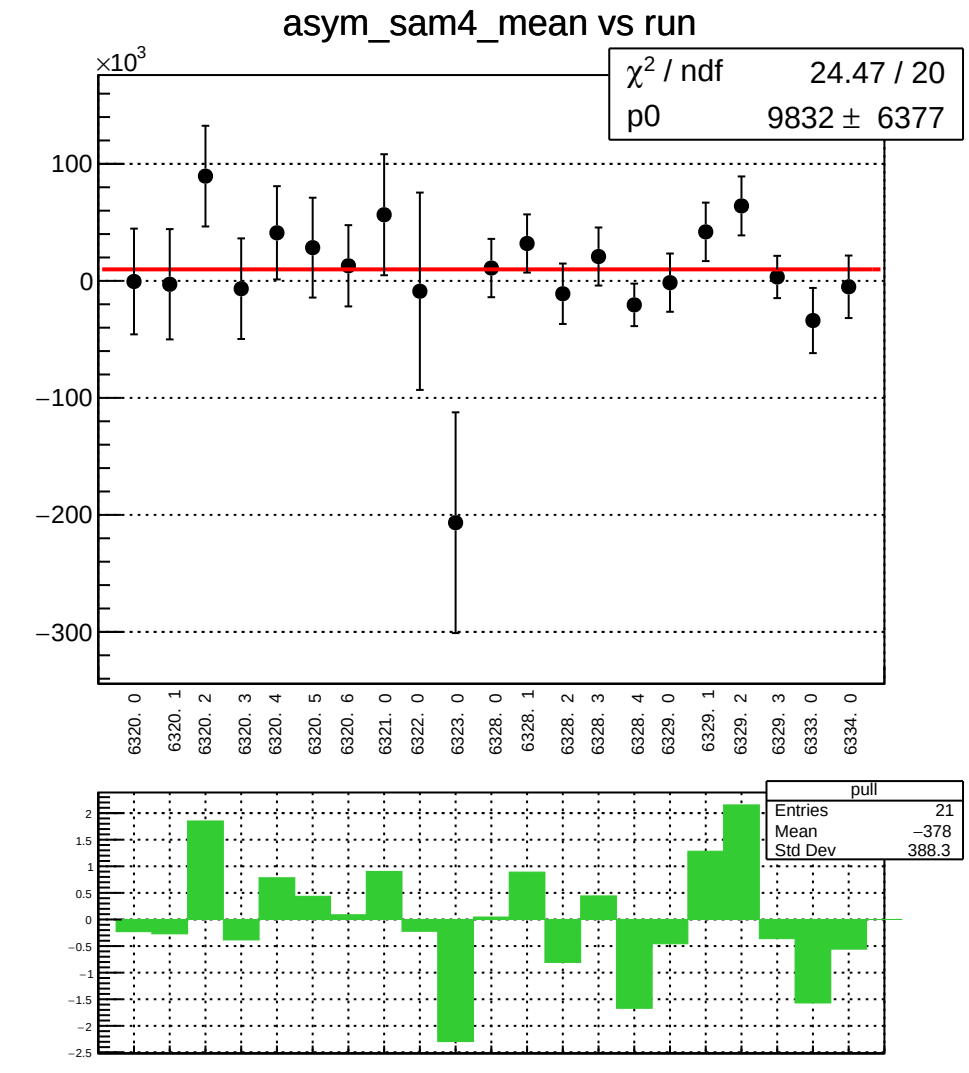

pull1D
Entries 21
Mean −0.01431
Std Dev 0.937
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

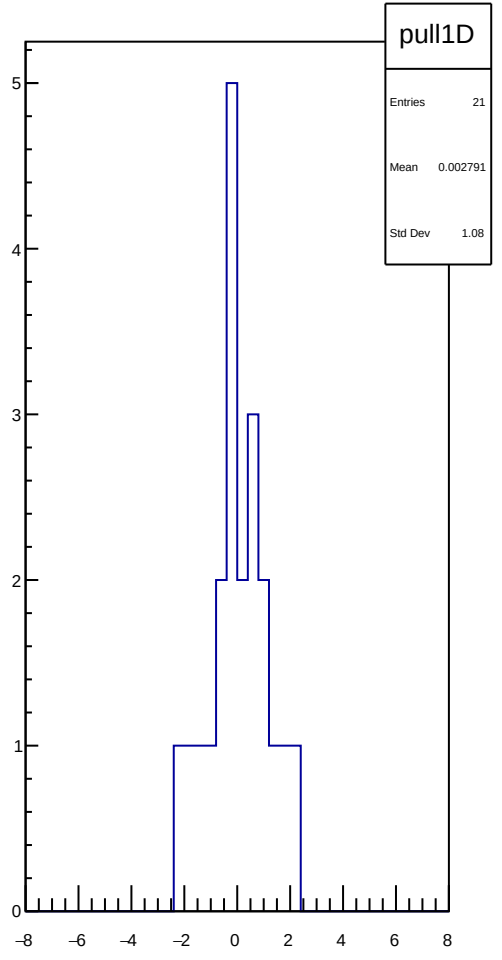

dit_asym_sam4_rms vs run
χ² / ndf 3265 / 20
p0 339.7 ± 0.5481
600
550
500
450
400
350
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

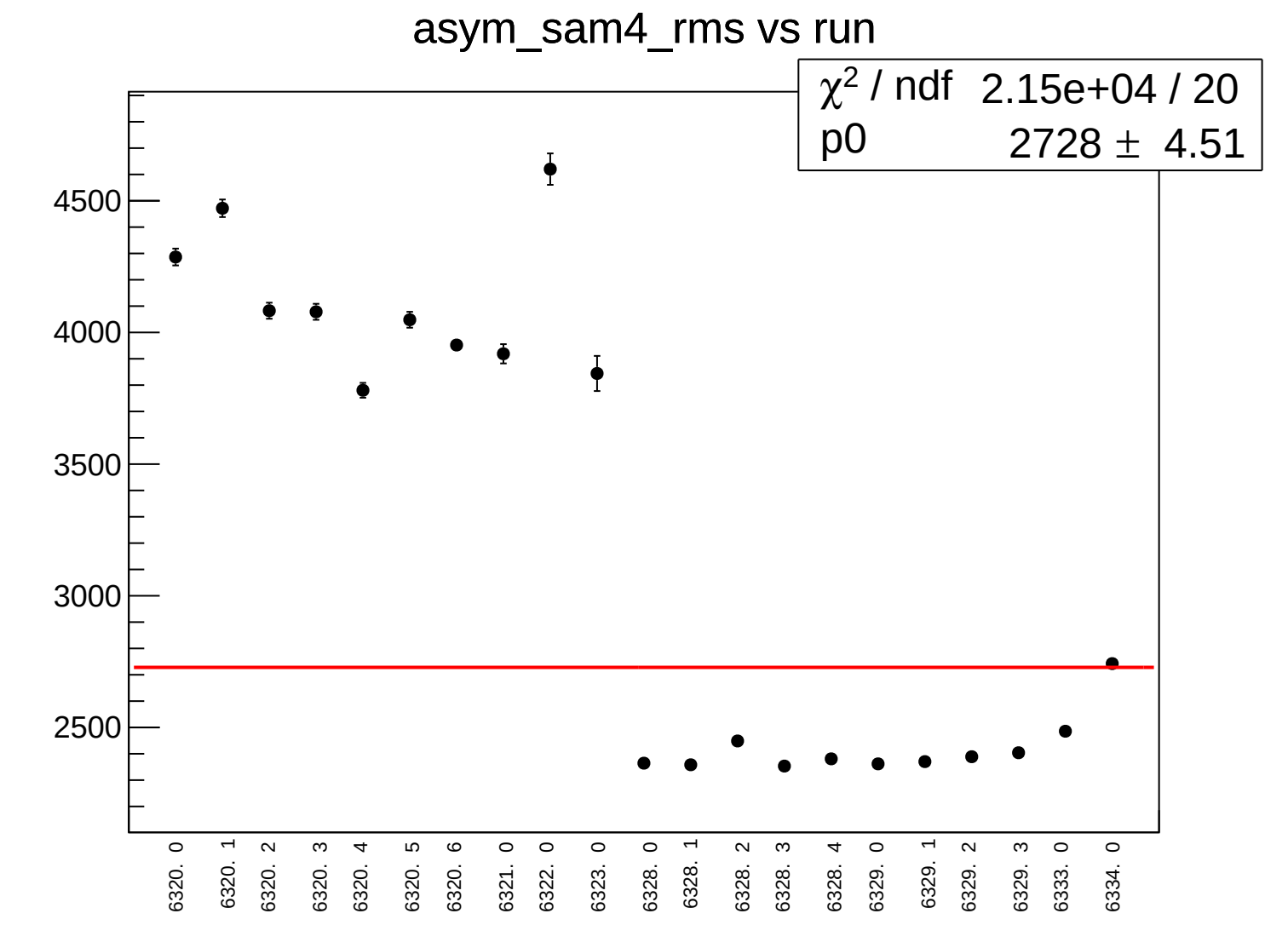

asym_sam4_correction_mean vs run
×10^3
χ^2 / ndf 23.56 / 20
p0 −9686 ± 6150
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −153.7
Std Dev 164
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

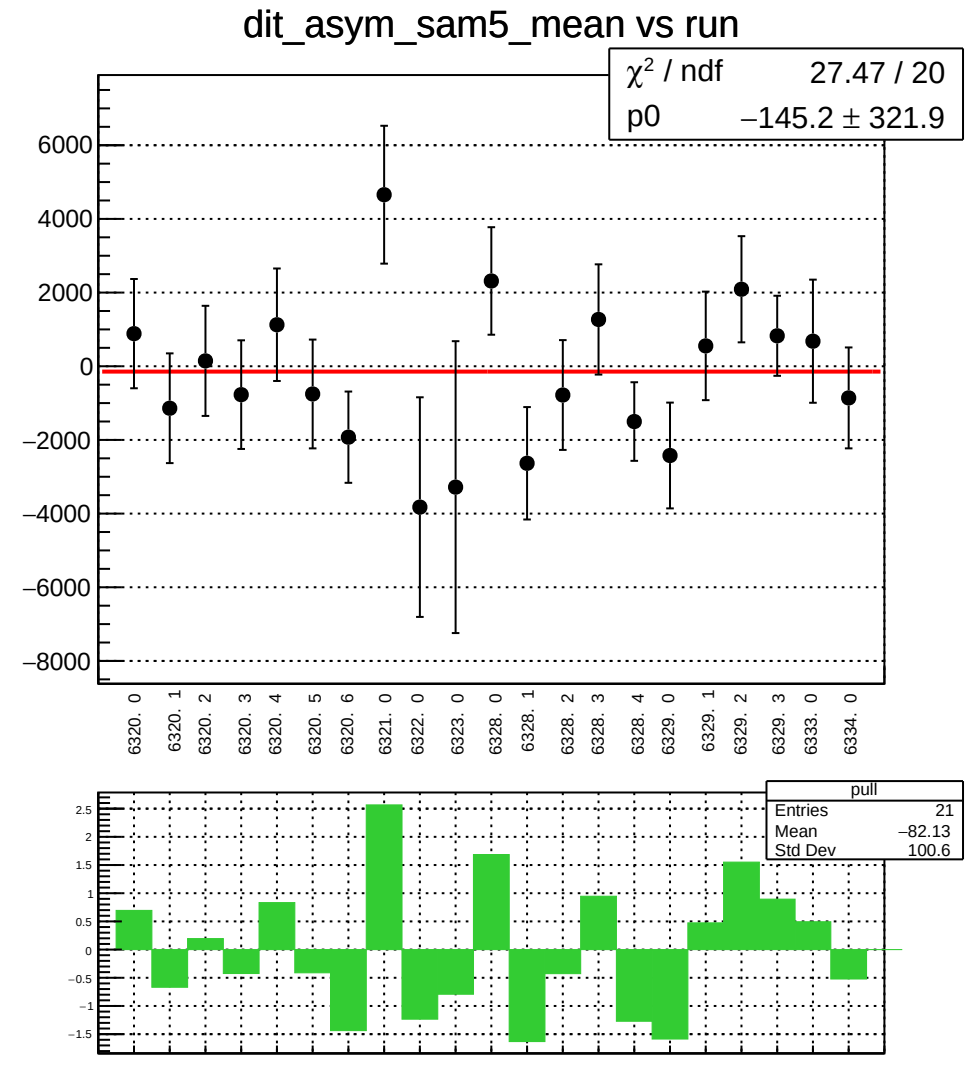

pull1D
Entries 21
Mean −0.005835
Std Dev 1.059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

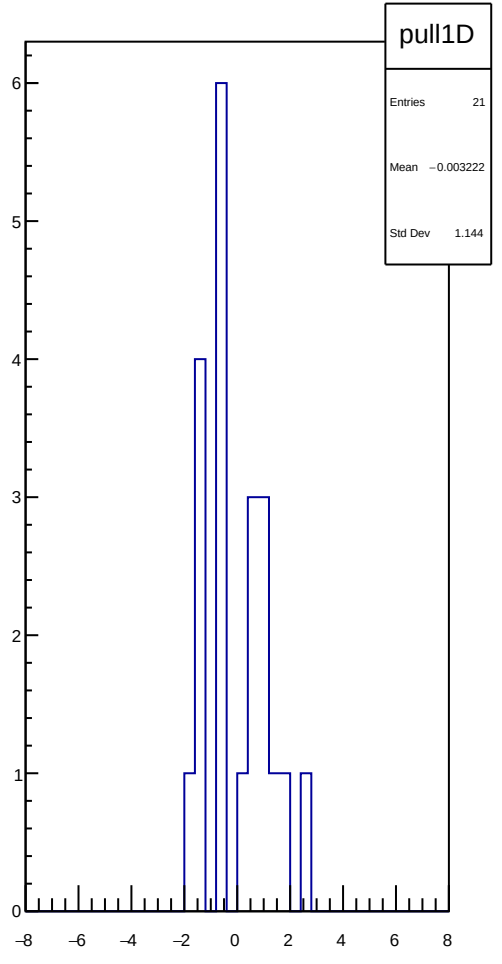

asym_sam4_correction_rms vs run
χ² / ndf 2.446e+04 / 20
p0 2620 ± 4.348
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

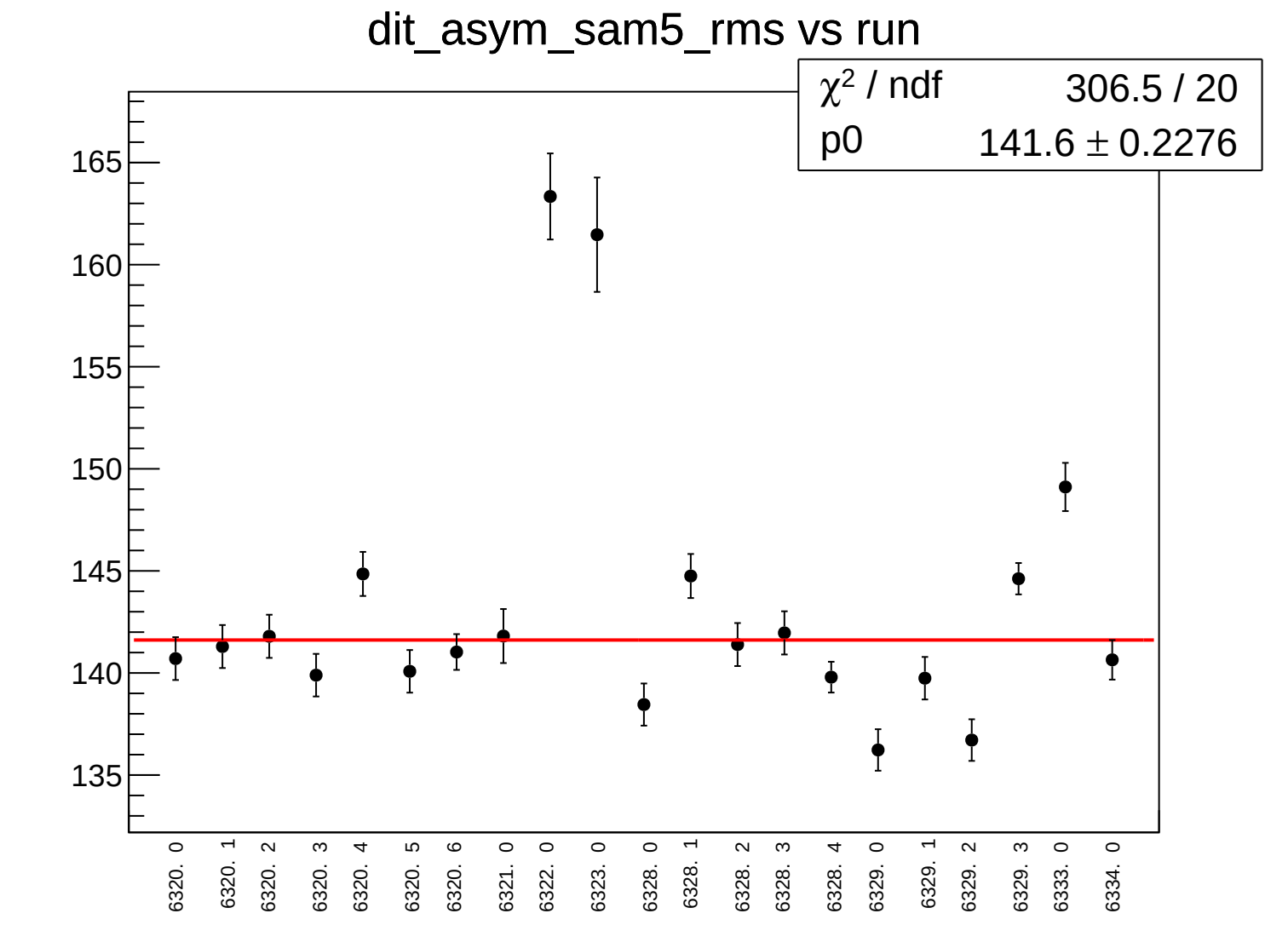

asym_sam4_mean vs run
×10^3
χ^2 / ndf 24.47 / 20
p0 9832 ± 6377
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −378
Std Dev 388.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

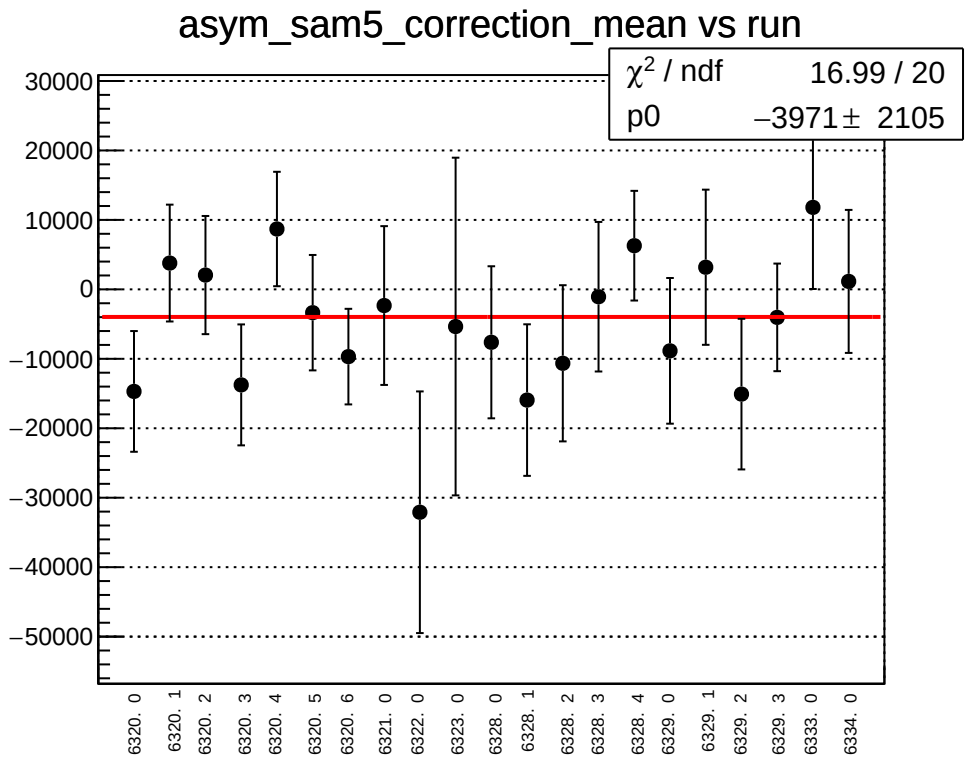

pull1D
Entries 21
Mean 0.002791
Std Dev 1.08
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

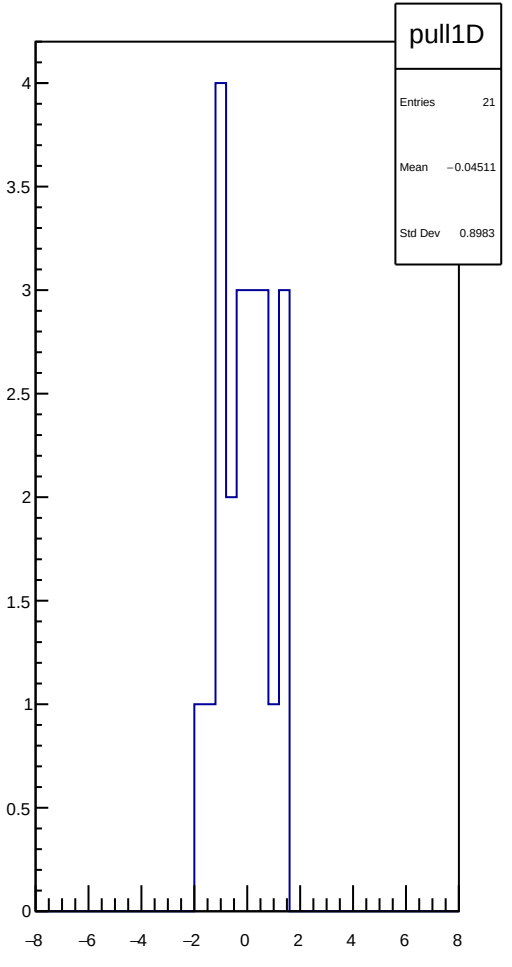

asym_sam4_rms vs run
χ² / ndf 2.15e+04 / 20
p0 2728 ± 4.51
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

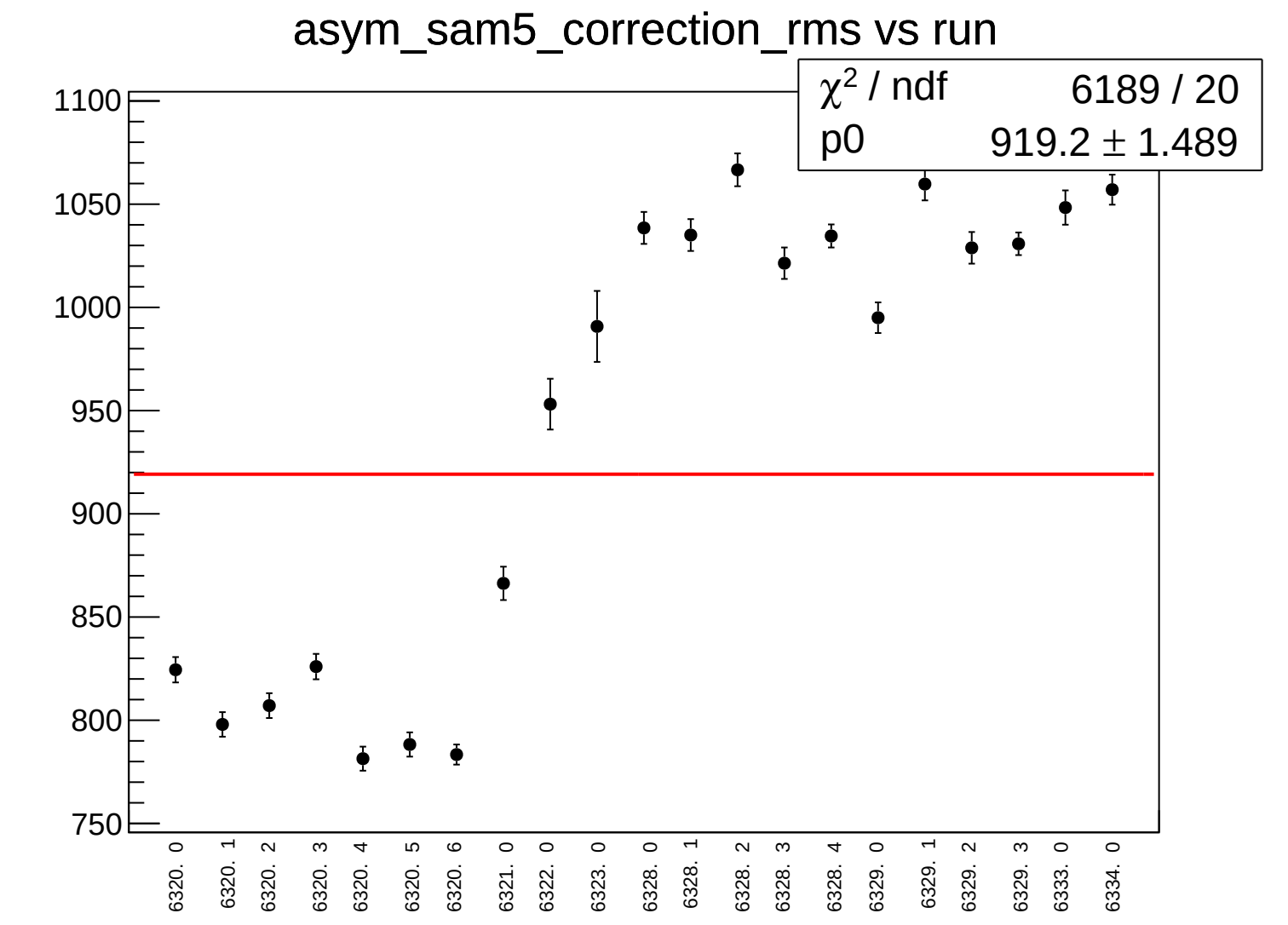

dit_asym_sam5_mean vs run
χ² / ndf 27.47 / 20
p0 −145.2 ± 321.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −82.13
Std Dev 100.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

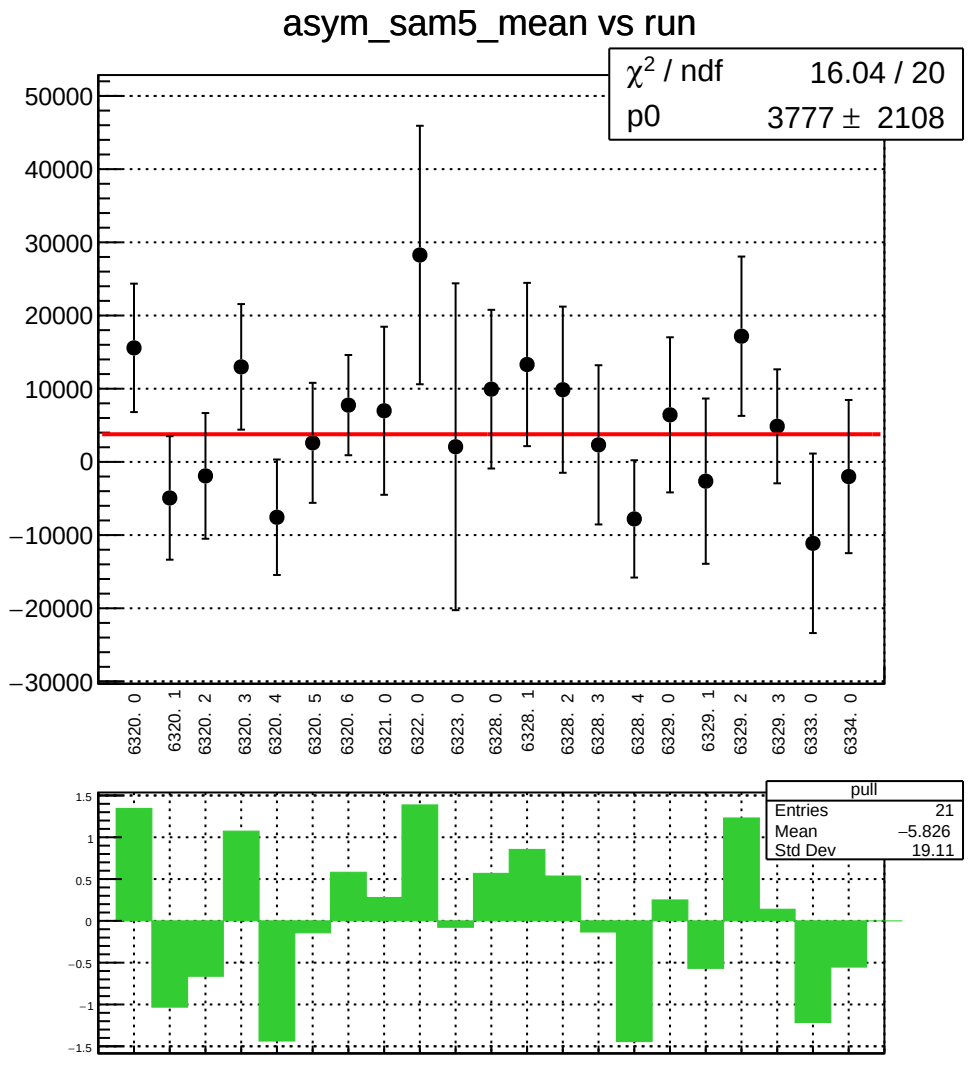

pull1D
Entries 21
Mean −0.003222
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

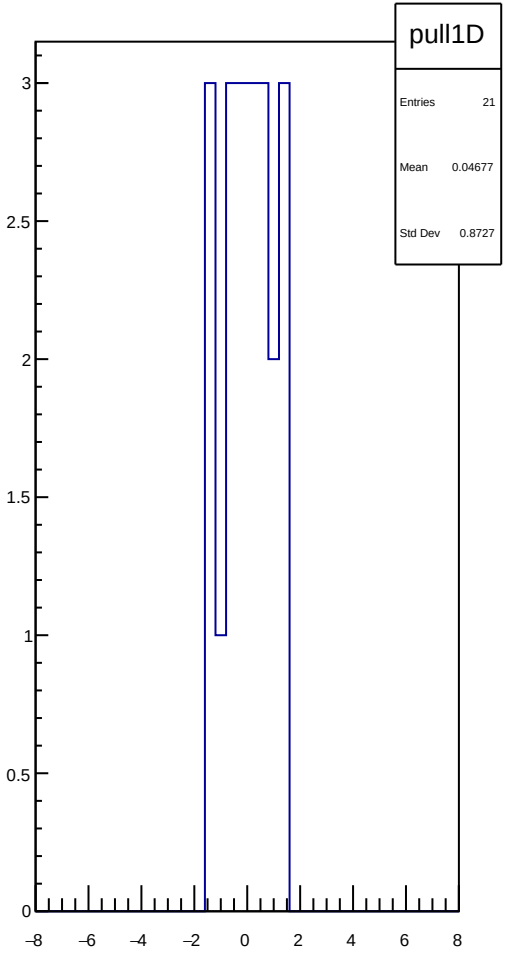

dit_asym_sam5_rms vs run
χ² / ndf 306.5 / 20
p0 141.6 ± 0.2276
165
160
155
150
145
140
135
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

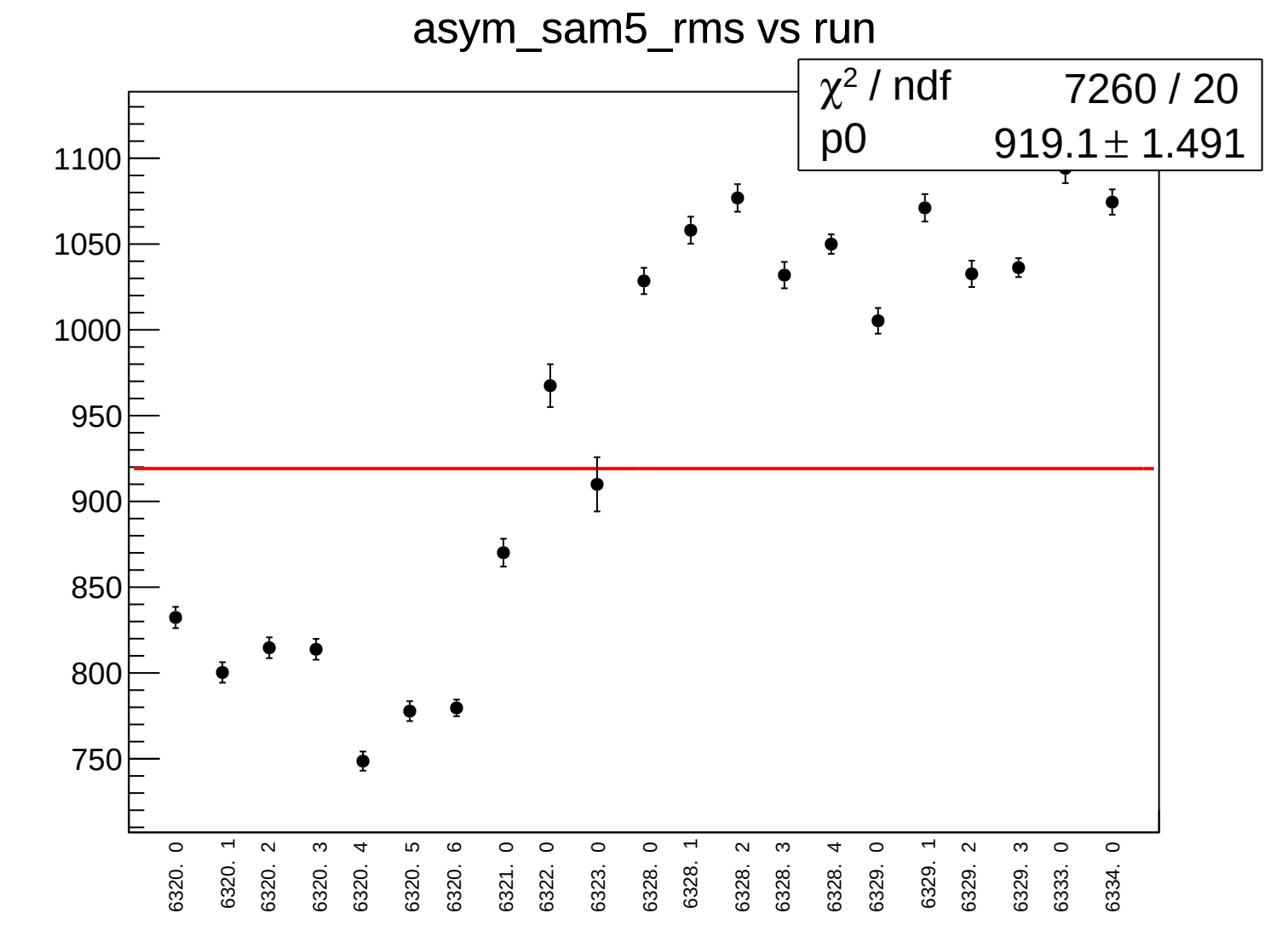

asym_sam5_correction_mean vs run
χ² / ndf 16.99 / 20
p0 −3971 ± 2105
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −8.371
Std Dev 21.95
1.5
1
0.5
0
−0.5
−1
−1.5

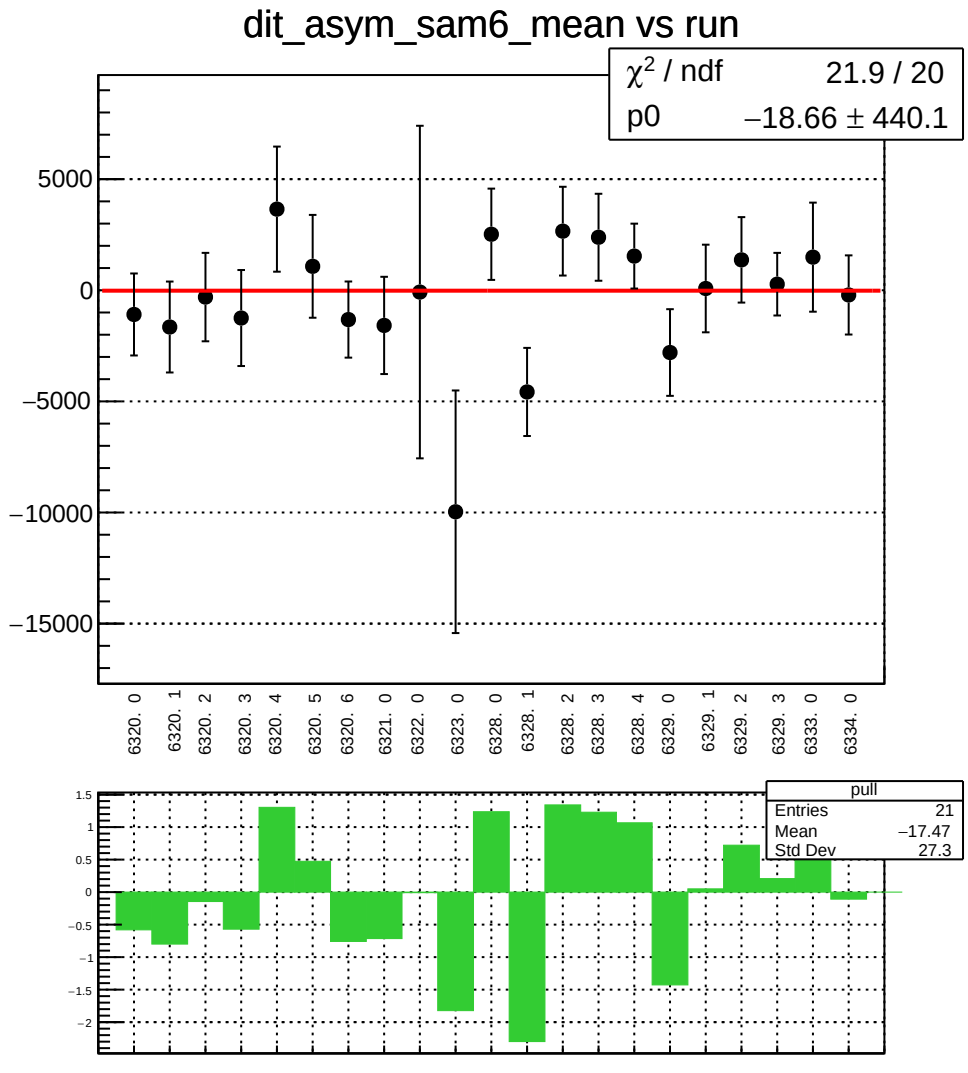

pull1D
Entries 21
Mean −0.04511
Std Dev 0.8983
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

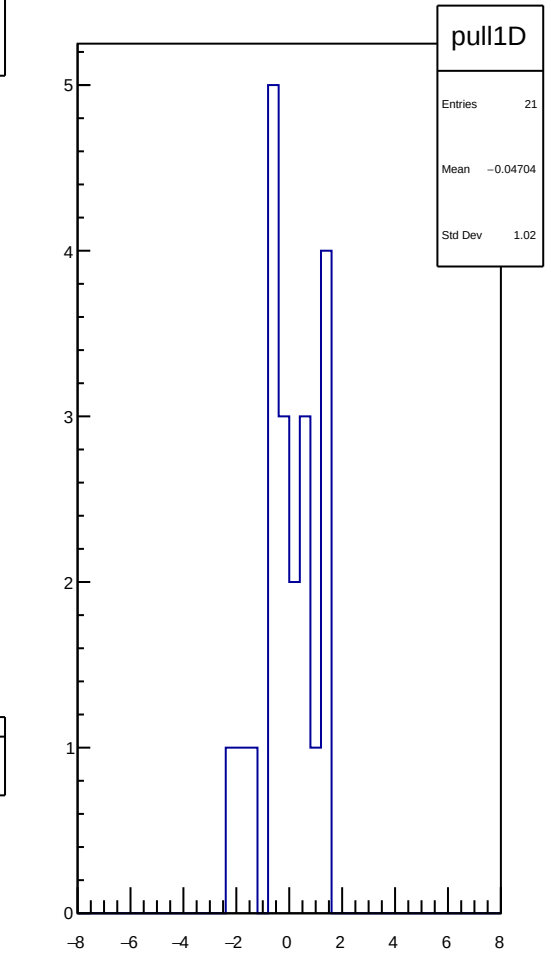

asym_sam5_correction_rms vs run
χ² / ndf 6189 / 20
p0 919.2 ± 1.489
1100
1050
1000
950
900
850
800
750
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

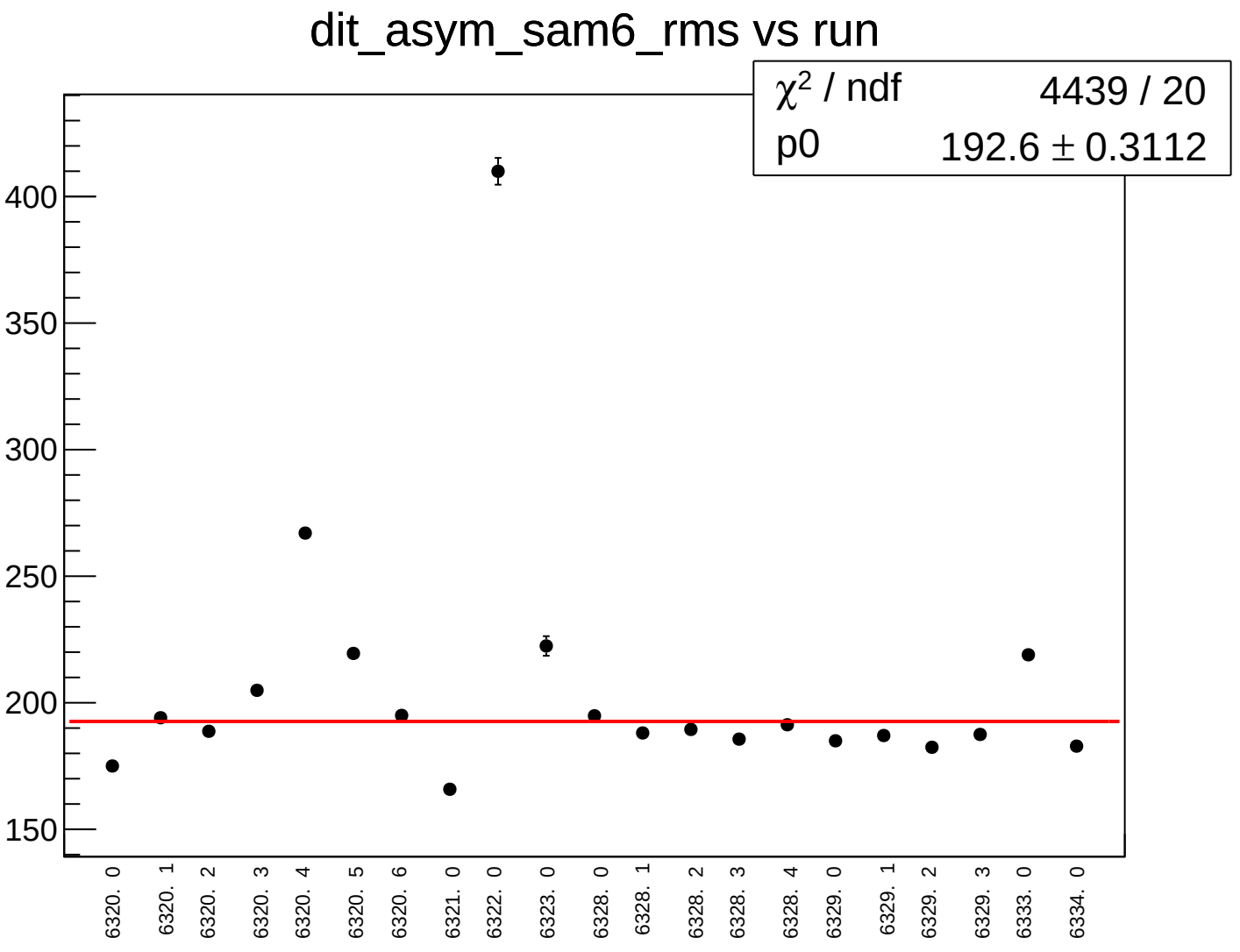

asym_sam5_mean vs run
χ² / ndf 16.04 / 20
p0 3777 ± 2108
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.826
Std Dev 19.11
1.5
1
0.5
0
−0.5
−1
−1.5

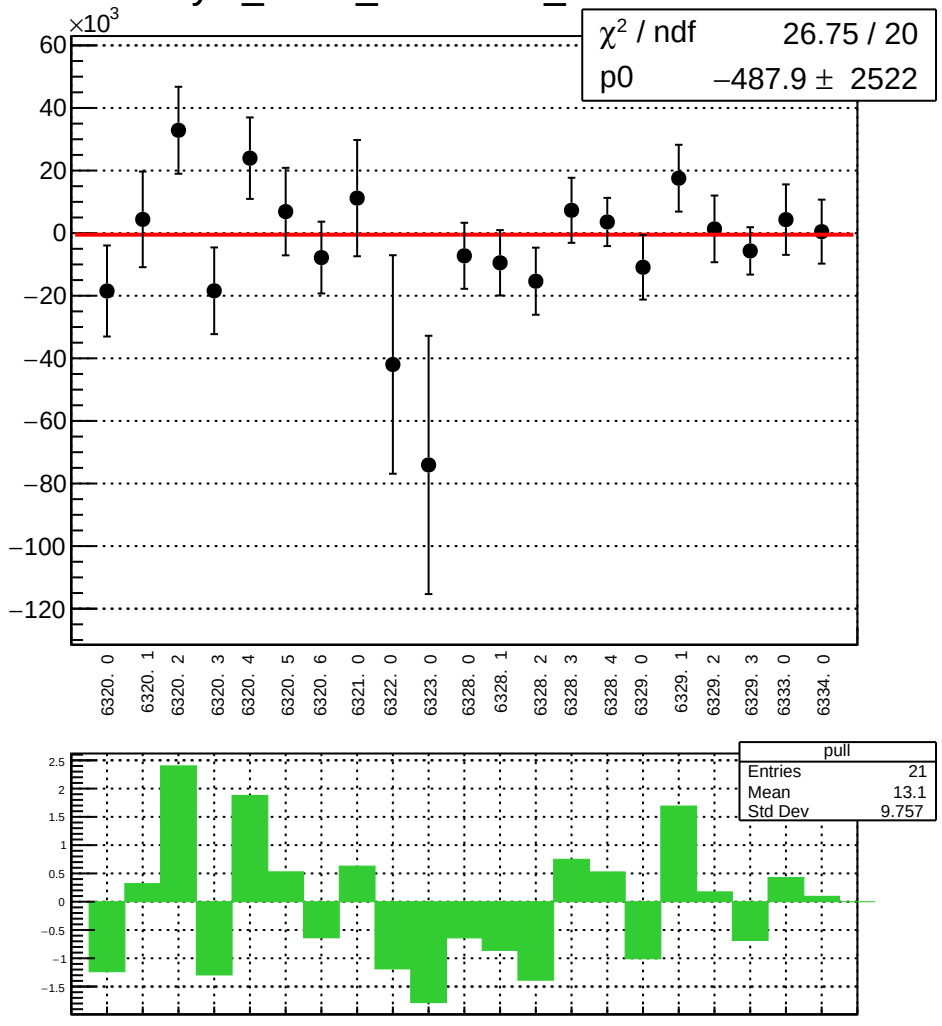

pull1D
Entries 21
Mean 0.04677
Std Dev 0.8727
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

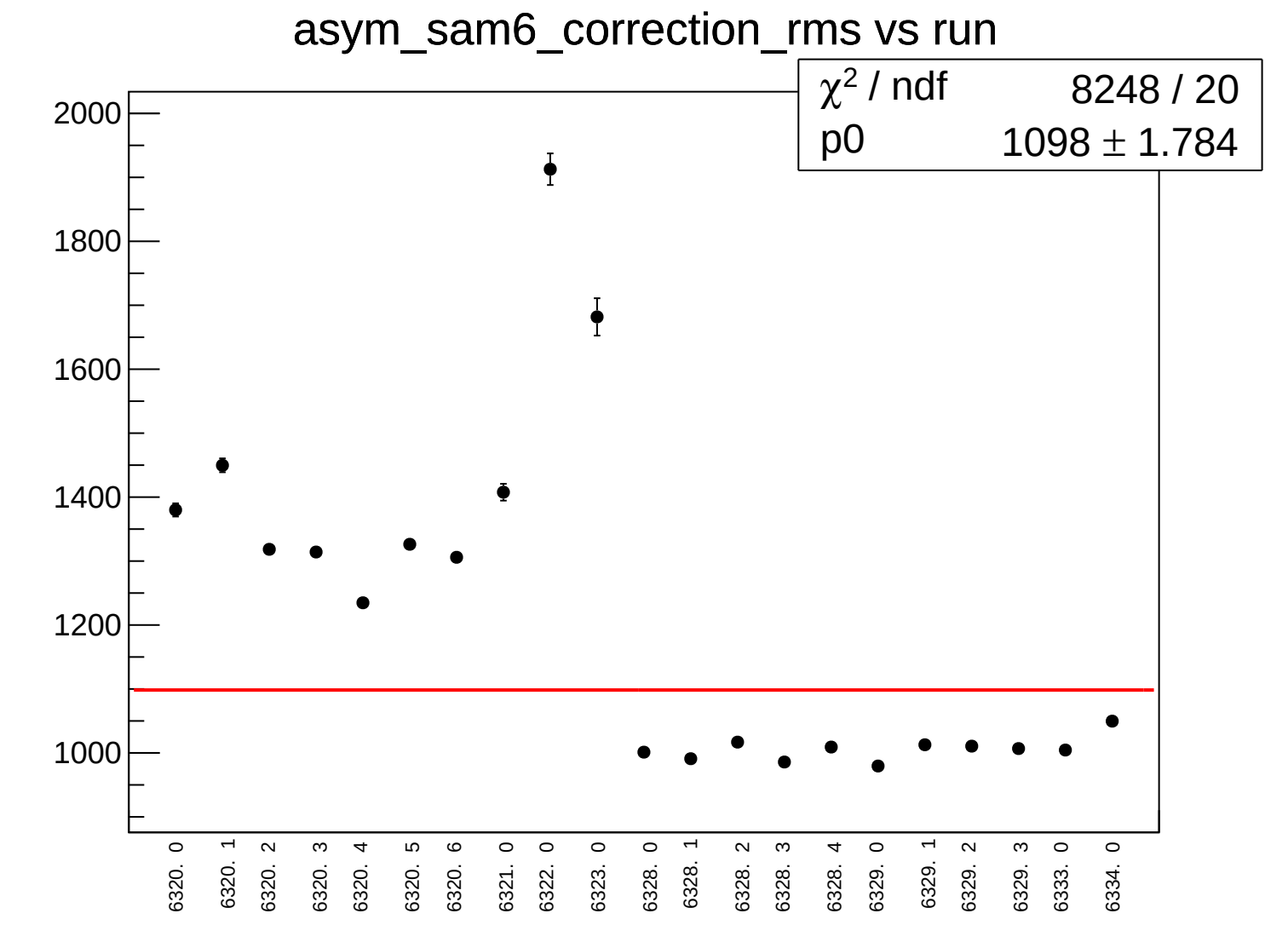

asym_sam5_rms vs run
χ² / ndf 7260 / 20
p0 919.1 ± 1.491
1100
1050
1000
950
900
850
800
750
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

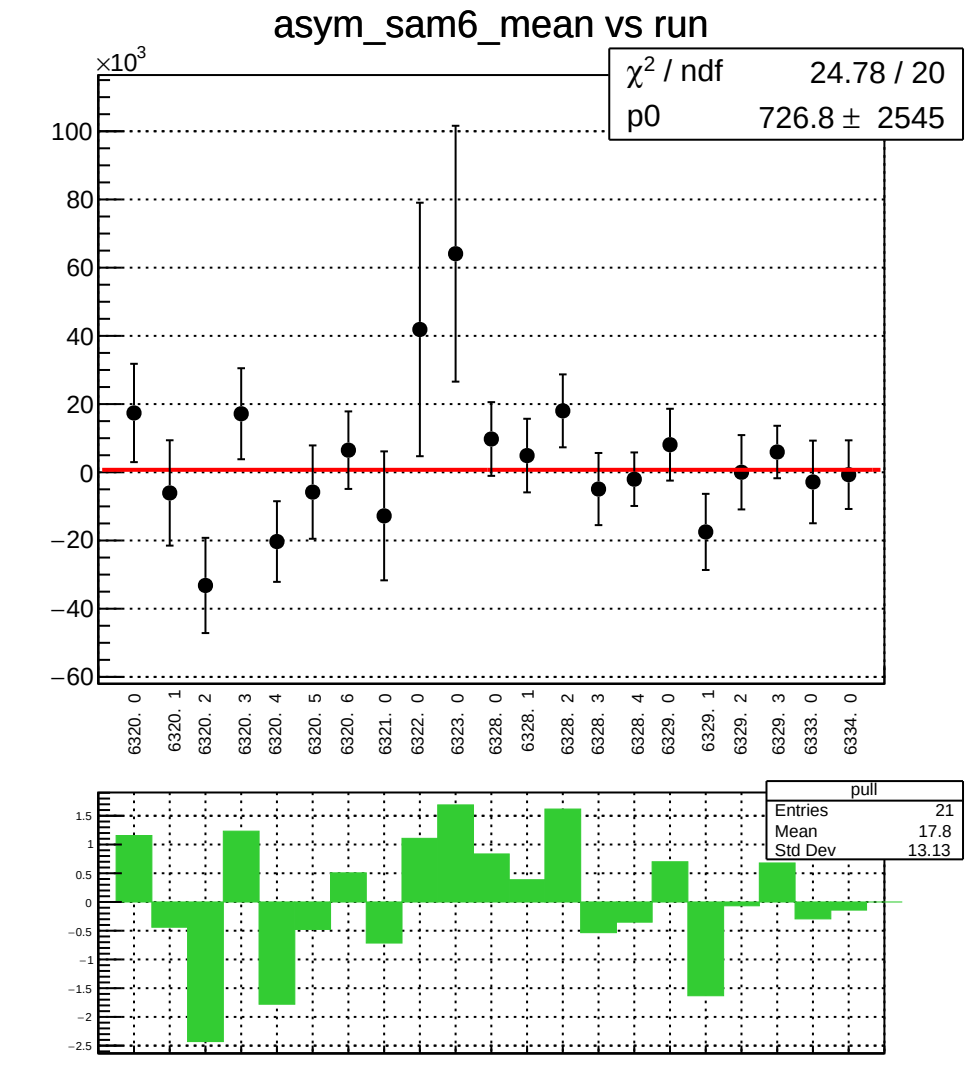

dit_asym_sam6_mean vs run
χ² / ndf 21.9 / 20
p0 −18.66 ± 440.1
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −17.47
Std Dev 27.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

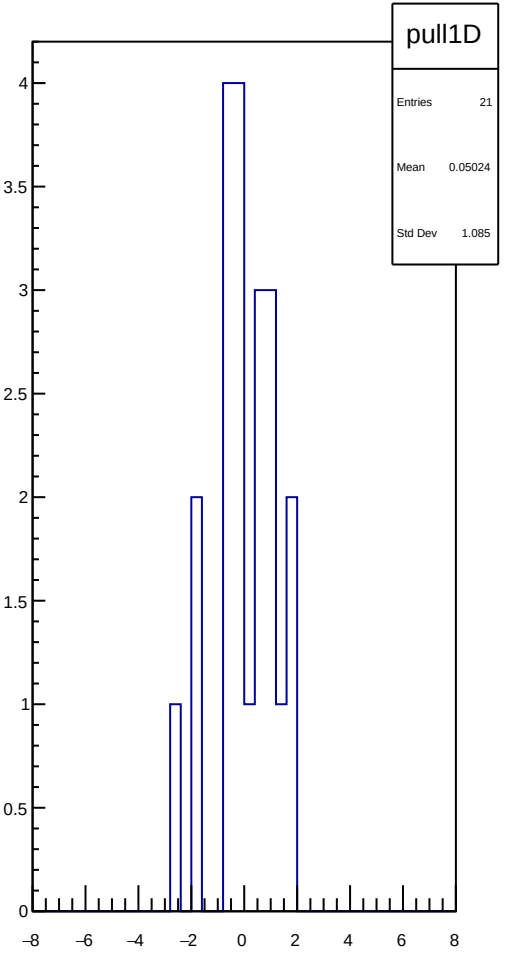

pull1D
Entries 21
Mean −0.04704
Std Dev 1.02
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

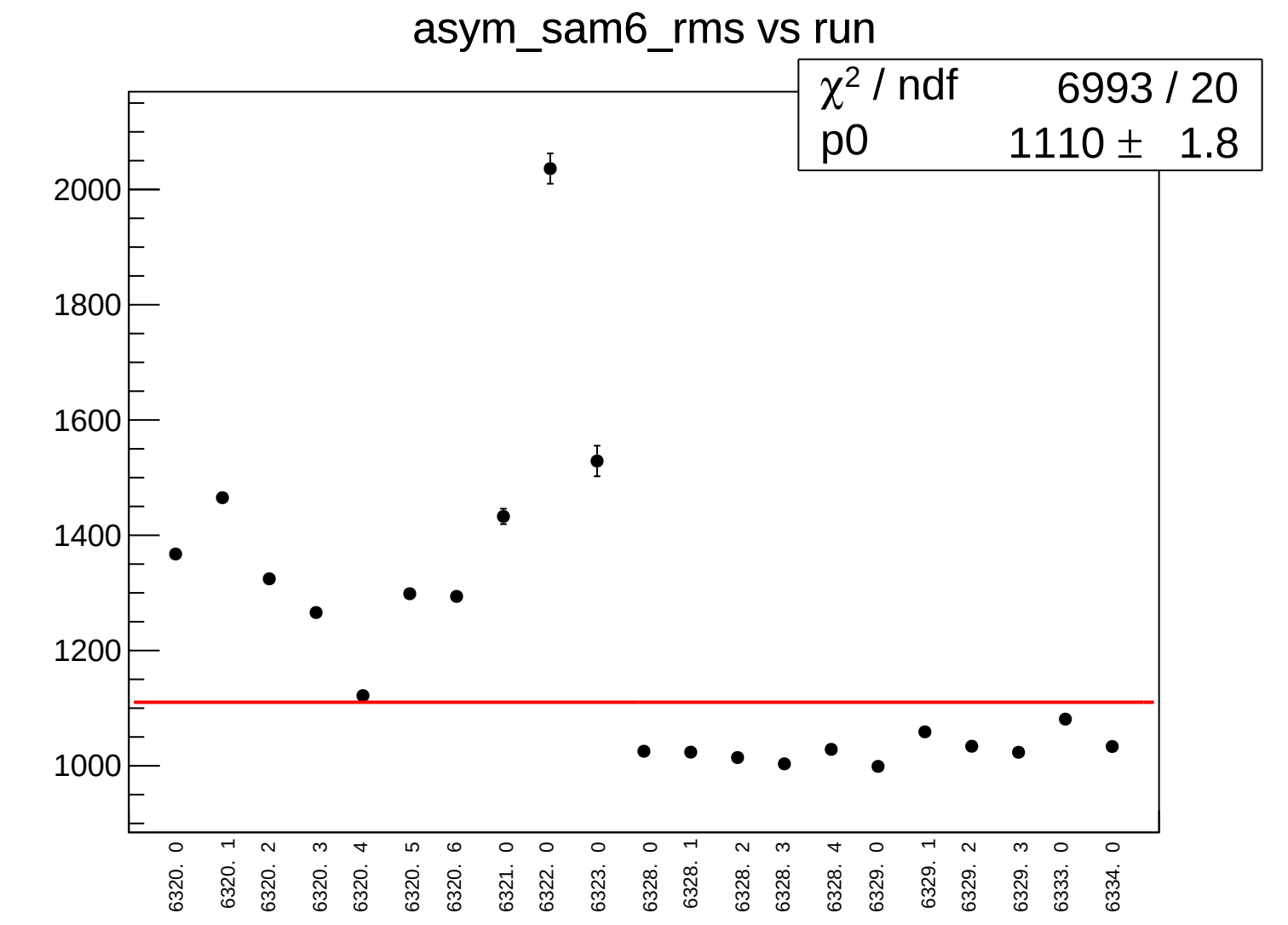

dit_asym_sam6_rms vs run
χ² / ndf 4439 / 20
p0 192.6 ± 0.3112
400
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

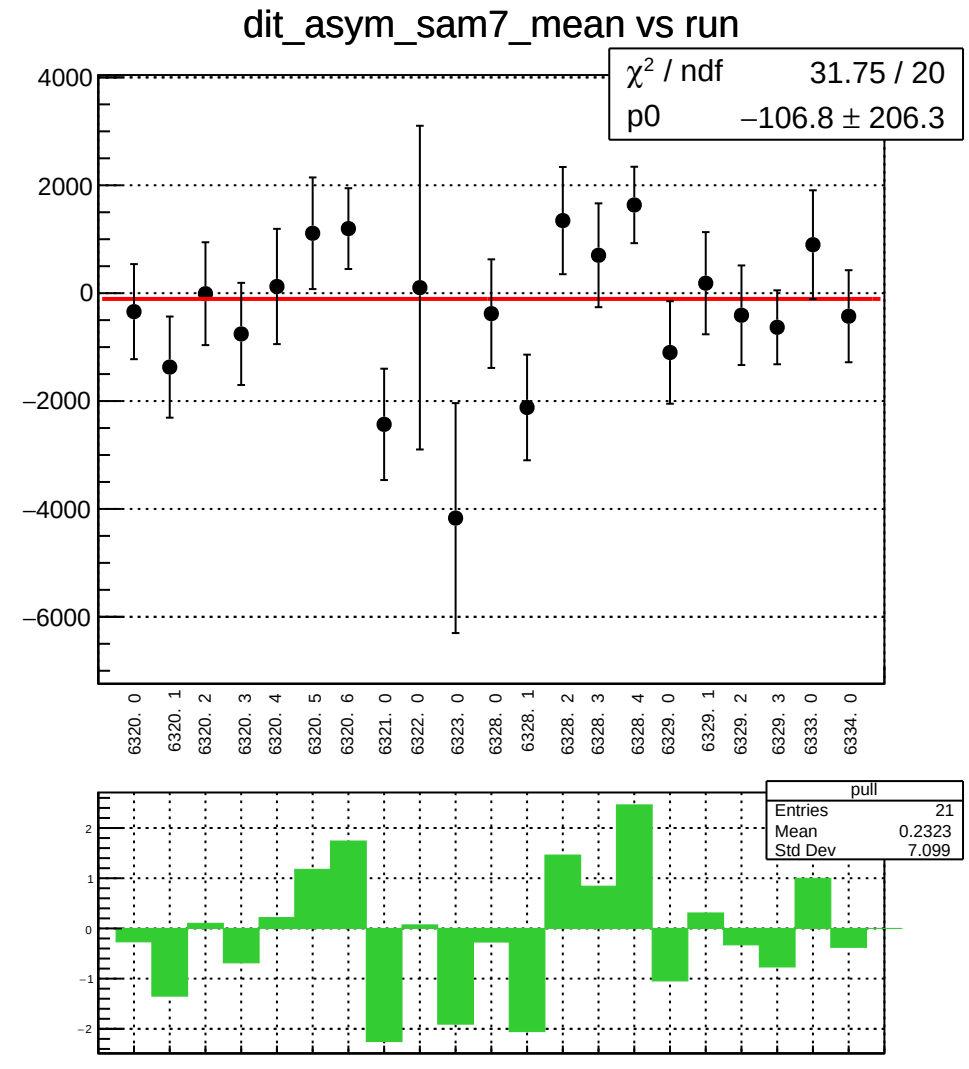

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 26.75 / 20
p0 −487.9 ± 2522
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.1
Std Dev 9.757
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.06207
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

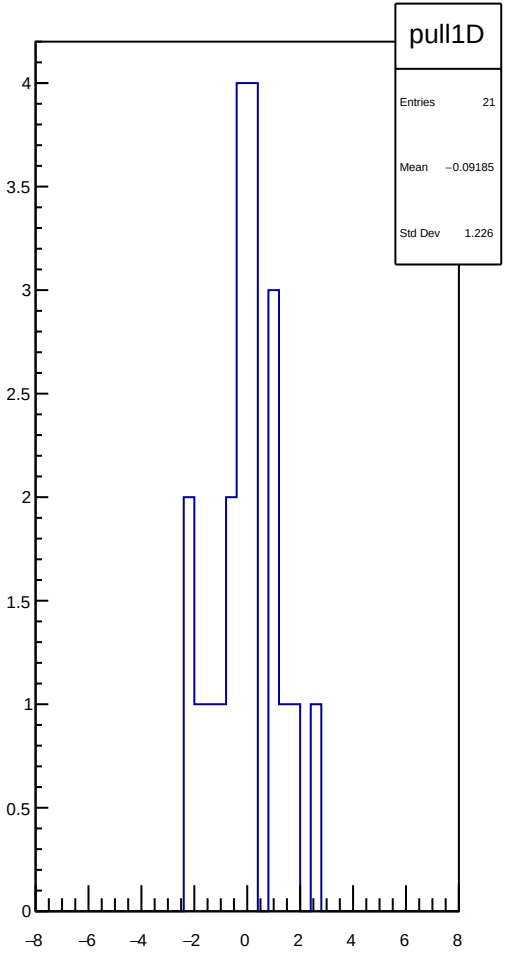

asym_sam6_correction_rms vs run
χ² / ndf 8248 / 20
p0 1098 ± 1.784
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

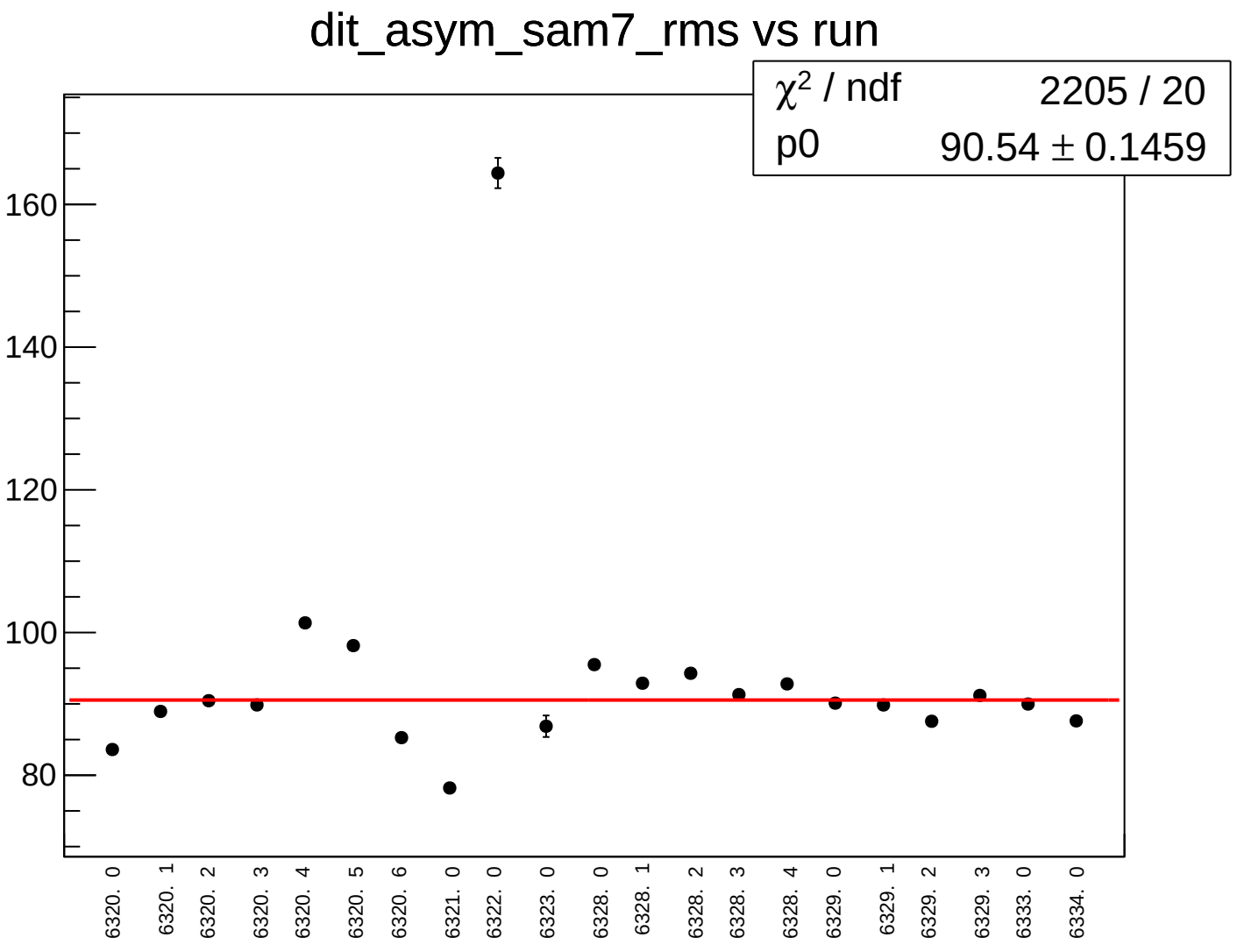

asym_sam6_mean vs run
×10^3
χ^2 / ndf 24.78 / 20
p0 726.8 ± 2545
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.8
Std Dev 13.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

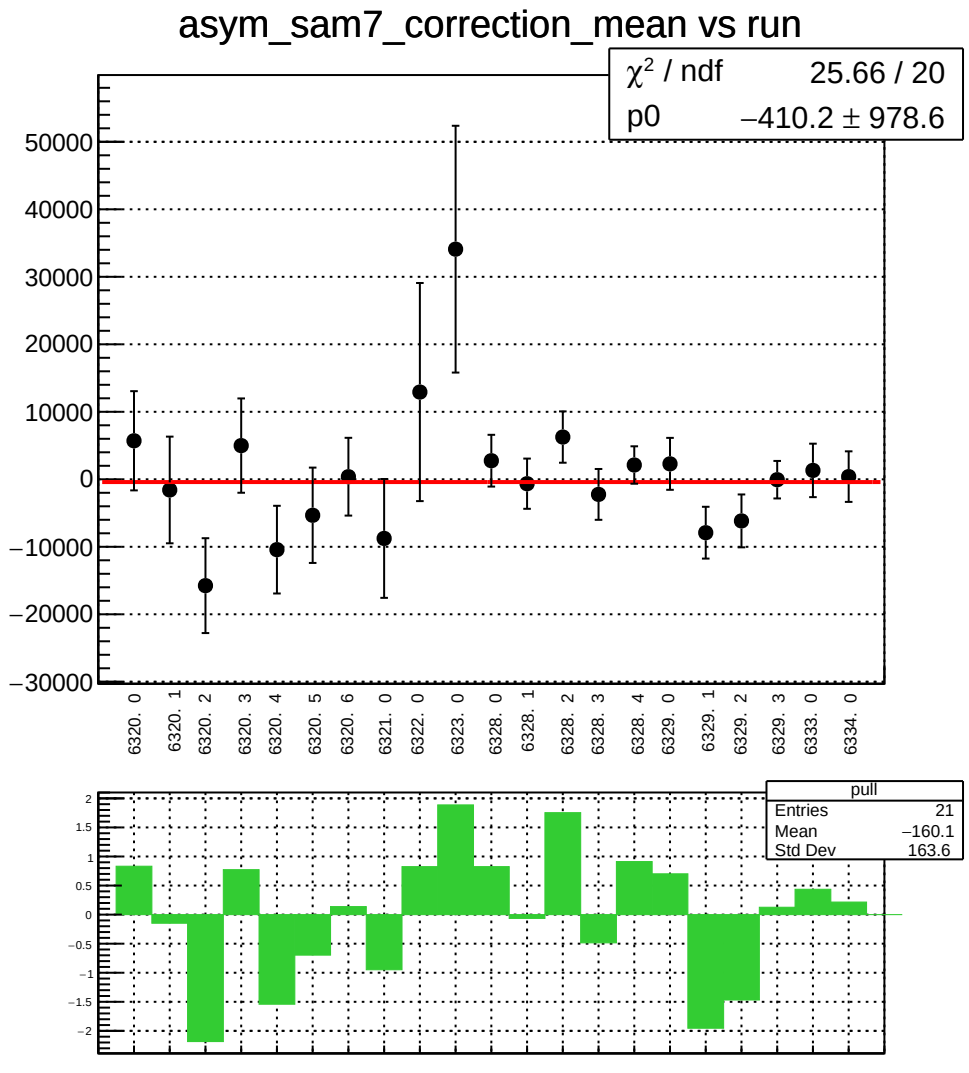

pull1D
Entries 21
Mean 0.05024
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

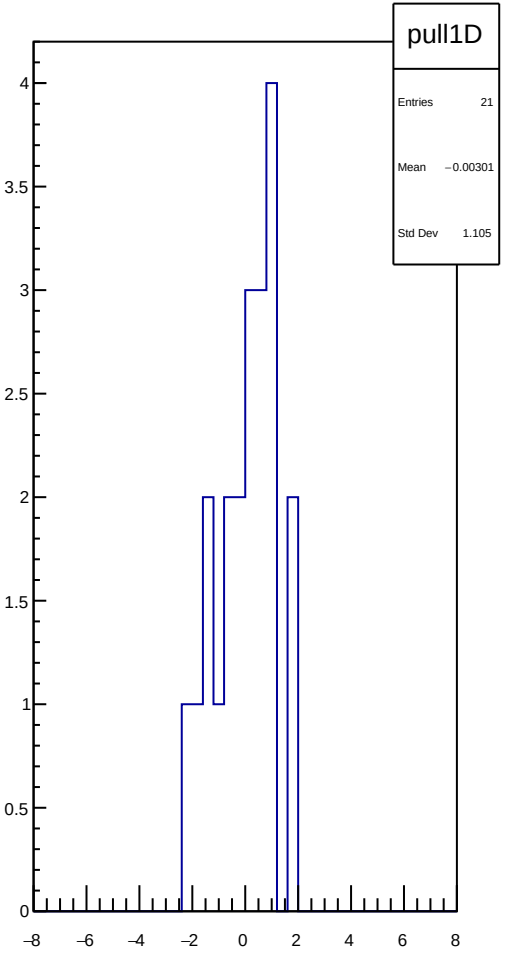

asym_sam6_rms vs run
χ² / ndf 6993 / 20
p0 1110 ± 1.8
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

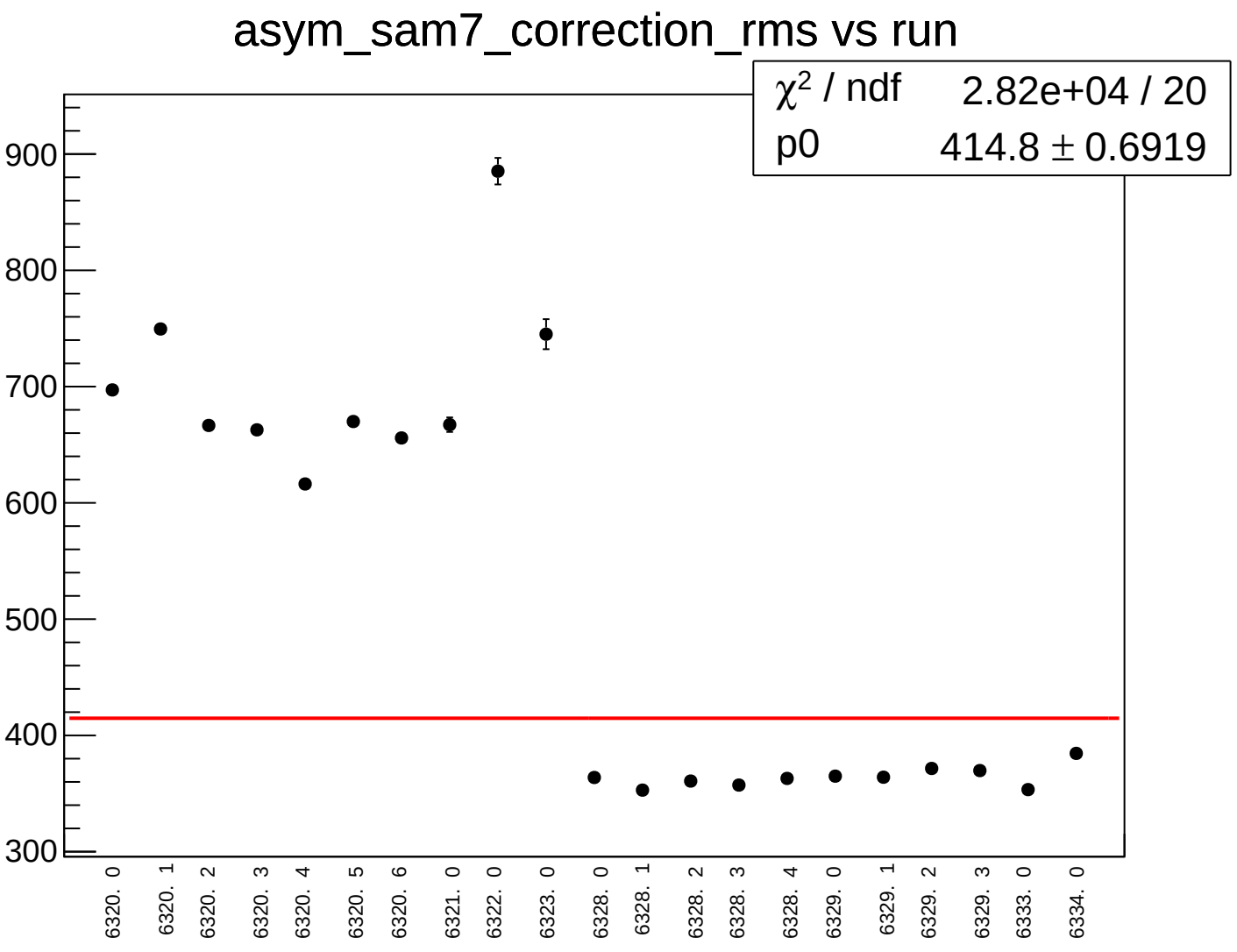

dit_asym_sam7_mean vs run
χ² / ndf 31.75 / 20
p0 −106.8 ± 206.3
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.2323
Std Dev 7.099
2
1
0
−1
−2

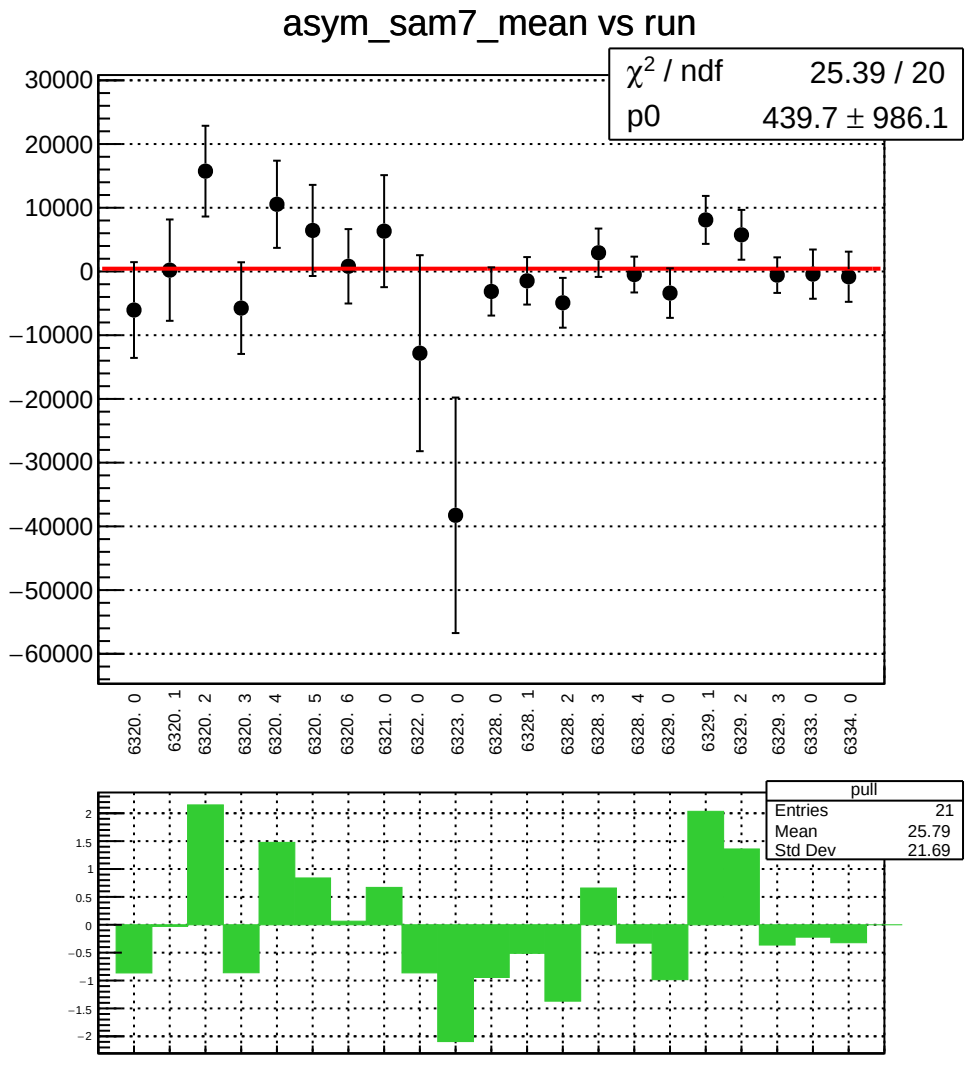

pull1D
Entries 21
Mean −0.09185
Std Dev 1.226
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

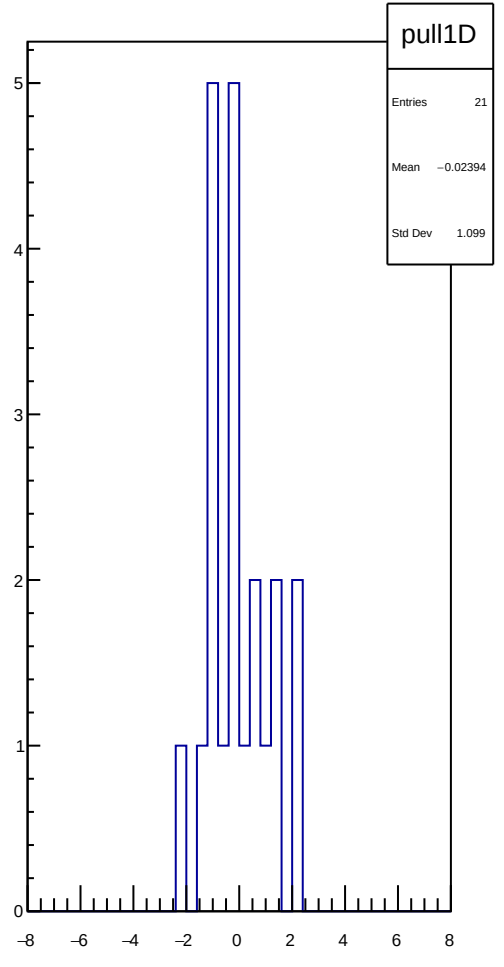

dit_asym_sam7_rms vs run
χ² / ndf 2205 / 20
p0 90.54 ± 0.1459
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

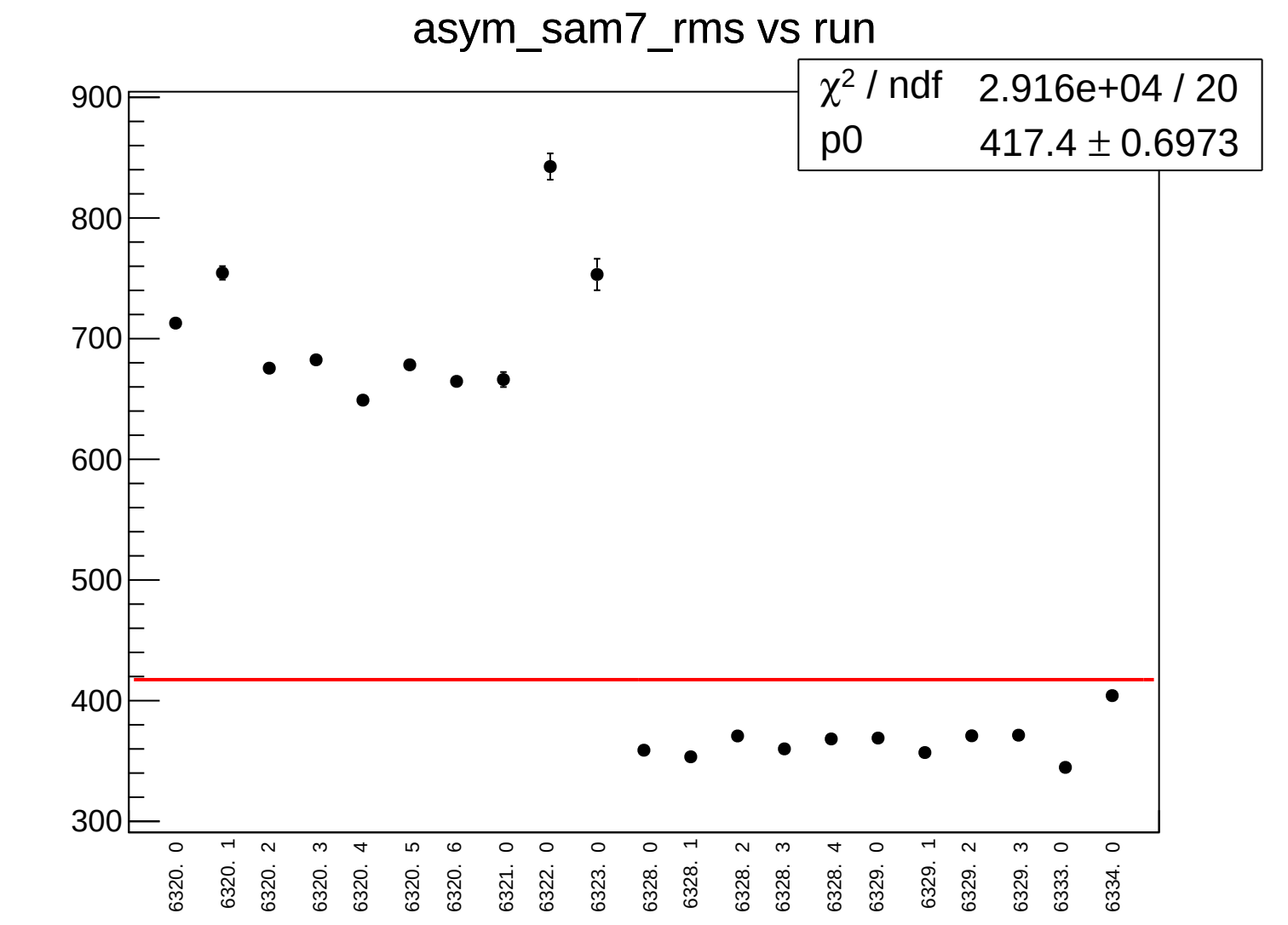

asym_sam7_correction_mean vs run
χ² / ndf 25.66 / 20
p0 −410.2 ± 978.6
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −160.1
Std Dev 163.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

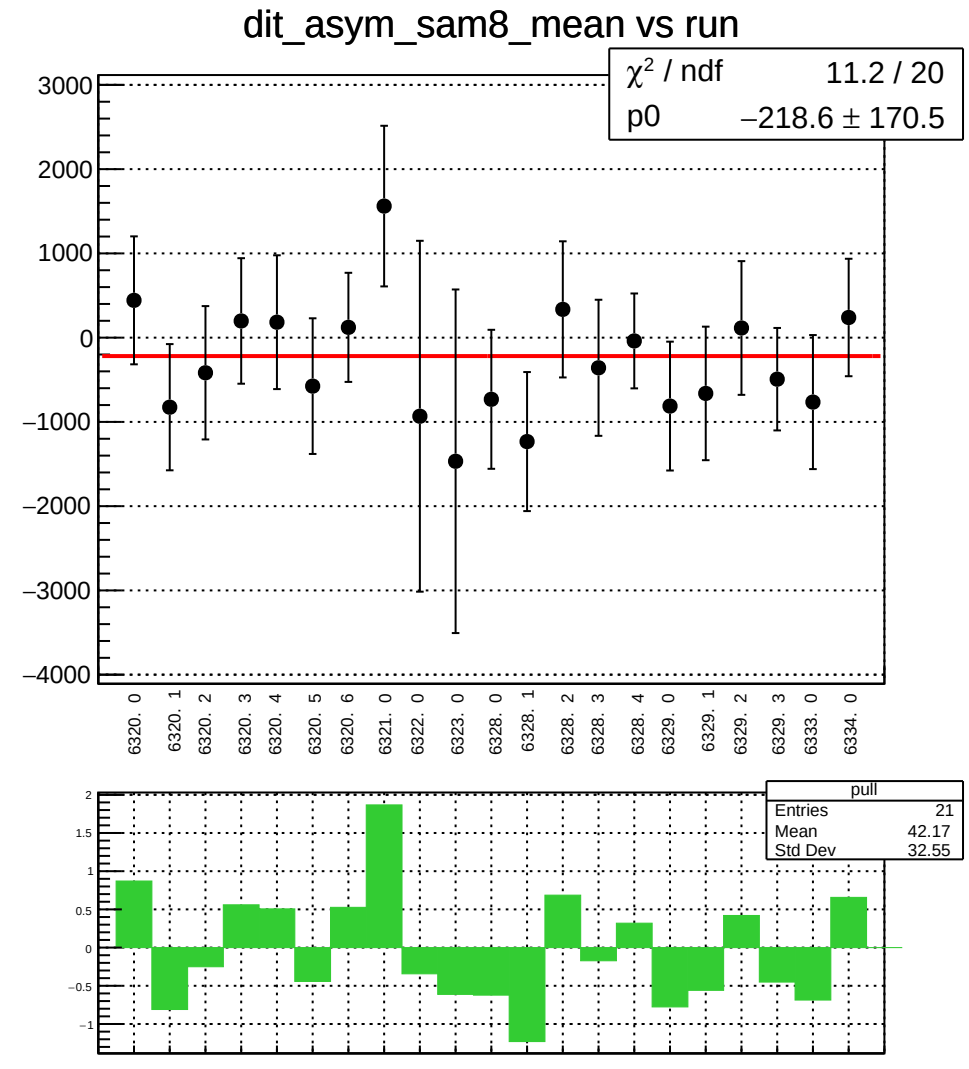

pull1D
Entries 21
Mean −0.00301
Std Dev 1.105
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

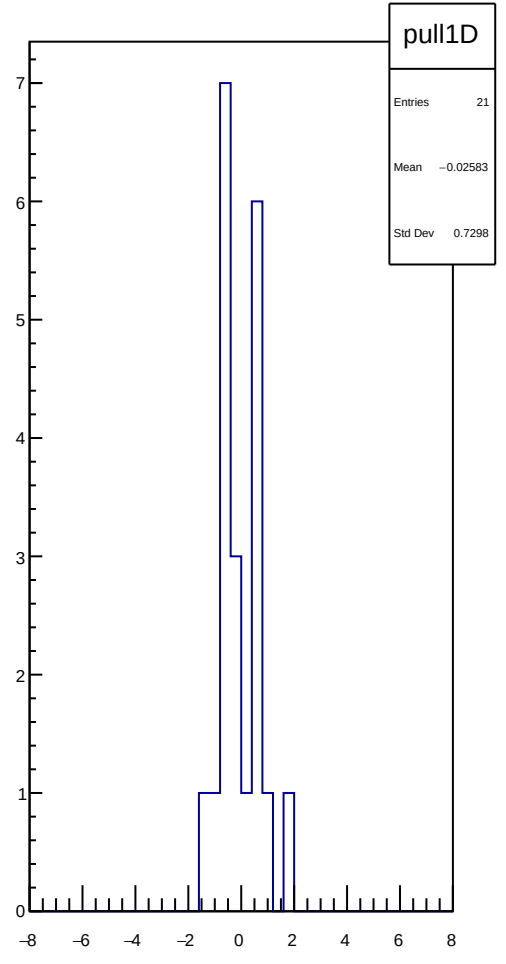

asym_sam7_correction_rms vs run
χ² / ndf 2.82e+04 / 20
p0 414.8 ± 0.6919
900
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

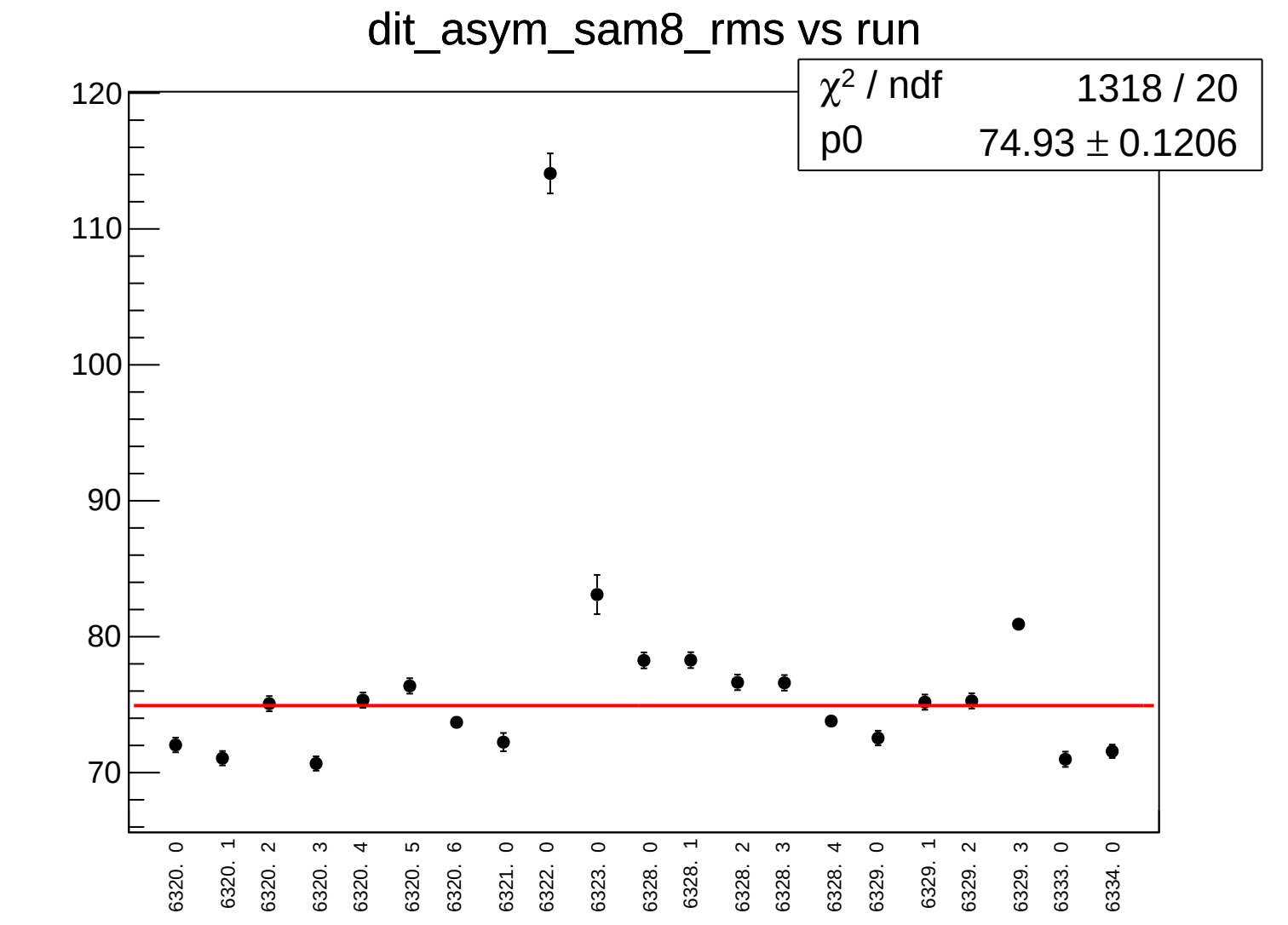

asym_sam7_mean vs run
χ² / ndf 25.39 / 20
p0 439.7 ± 986.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.79
Std Dev 21.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

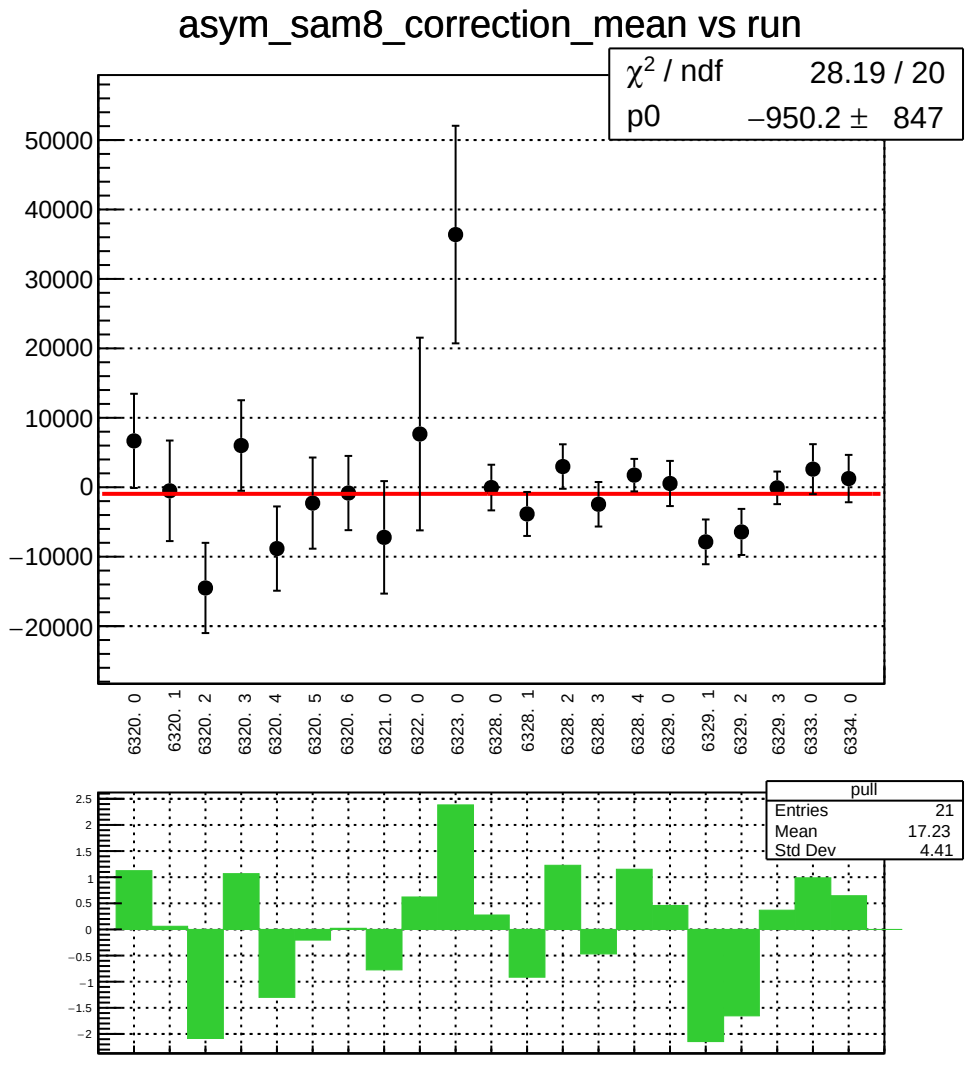

pull1D
Entries 21
Mean −0.02394
Std Dev 1.099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

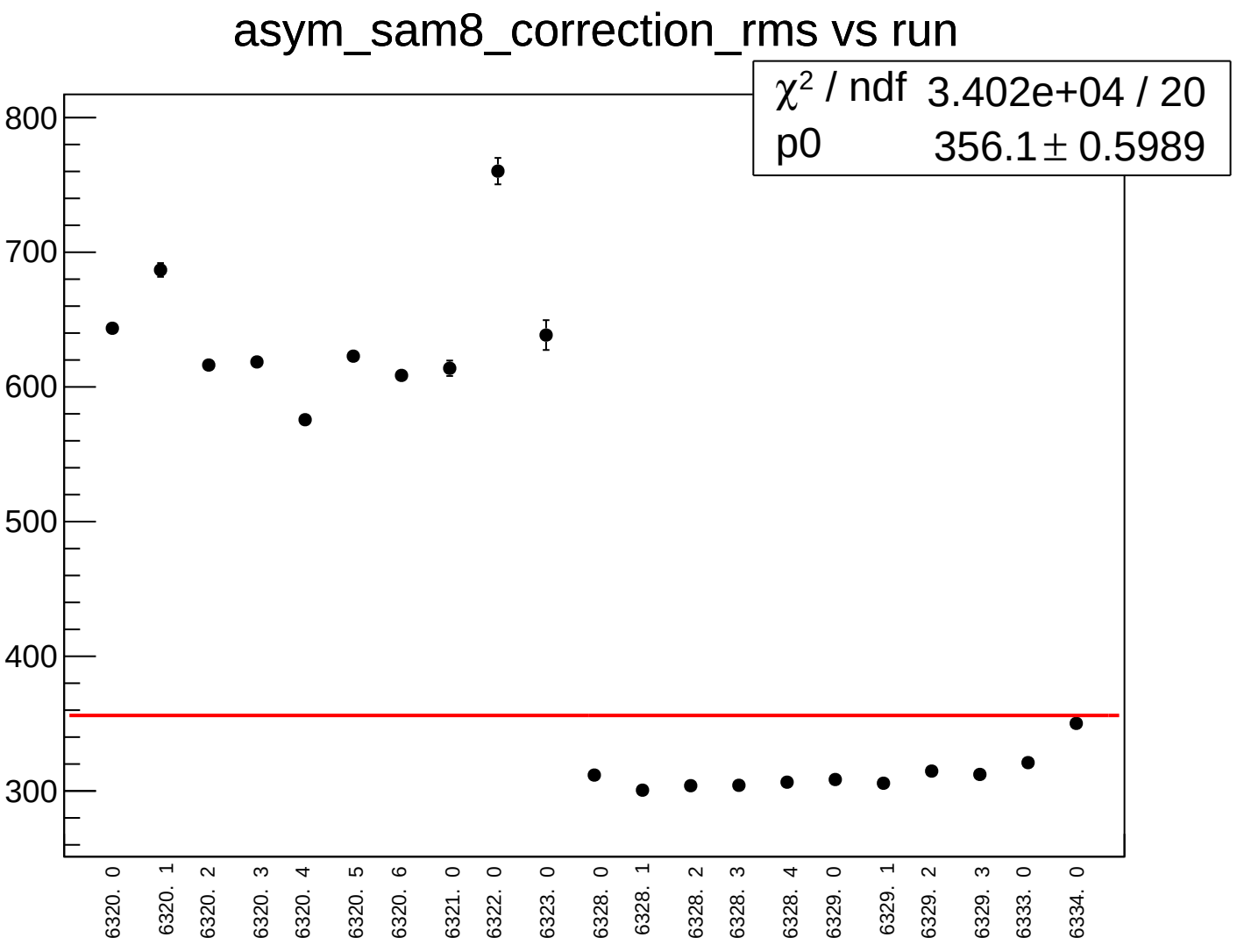

asym_sam7_rms vs run
χ² / ndf 2.916e+04 / 20
p0 417.4 ± 0.6973
900
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

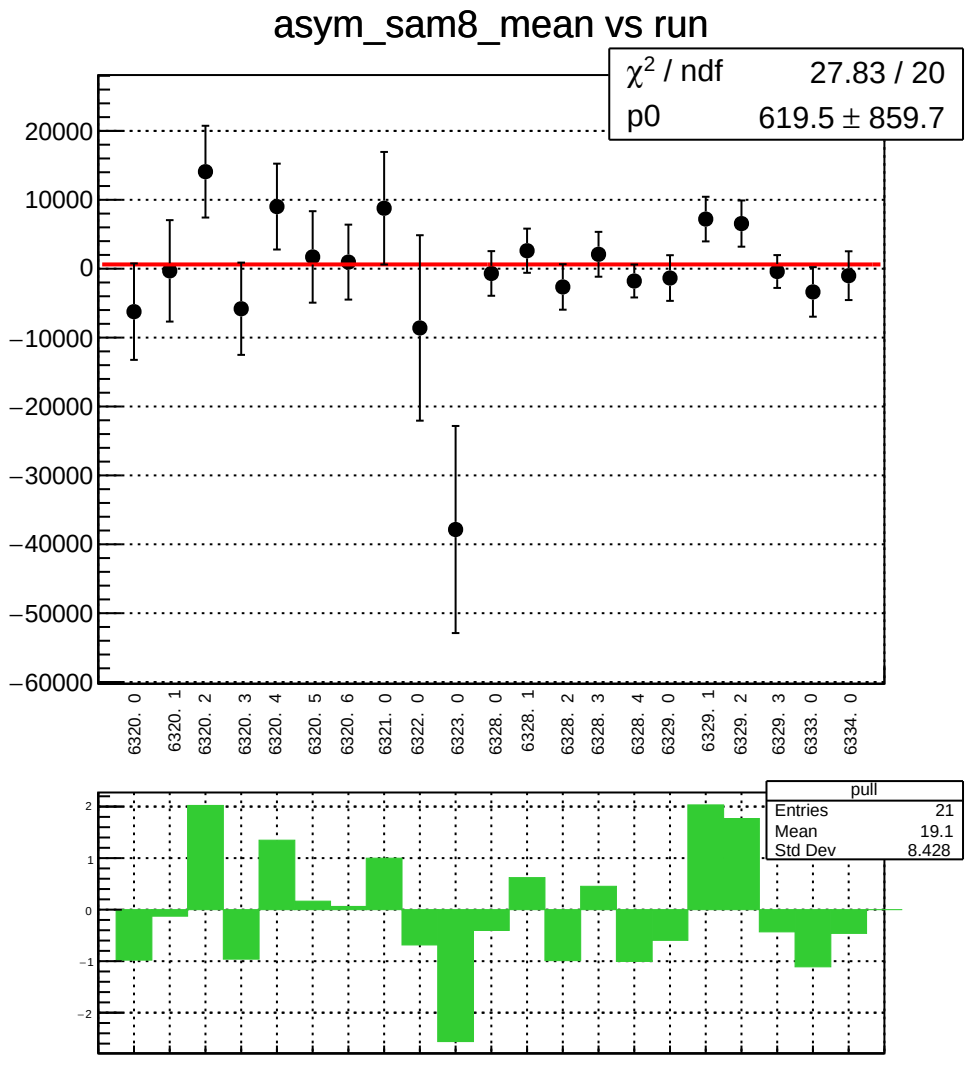

dit_asym_sam8_mean vs run
χ² / ndf 11.2 / 20
p0 −218.6 ± 170.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 42.17
Std Dev 32.55
2
1.5
1
0.5
0
−0.5
−1

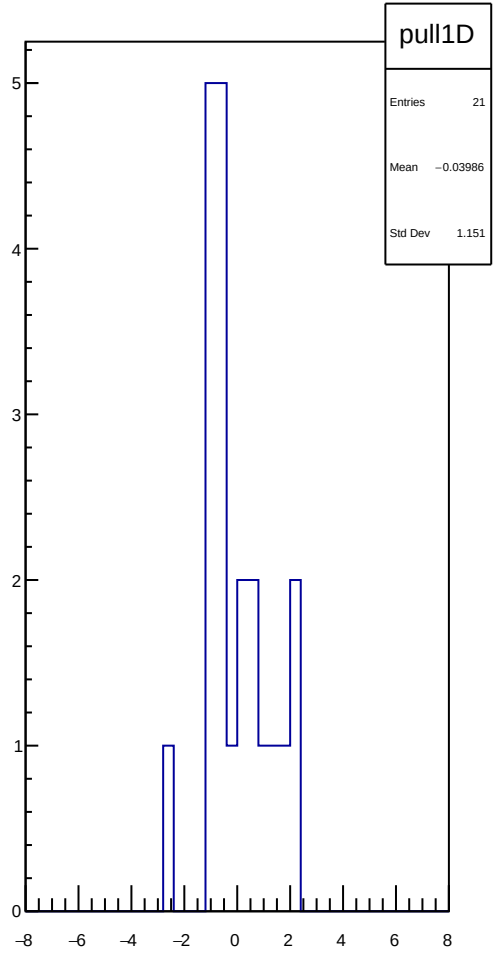

pull1D
Entries 21
Mean −0.02583
Std Dev 0.7298
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

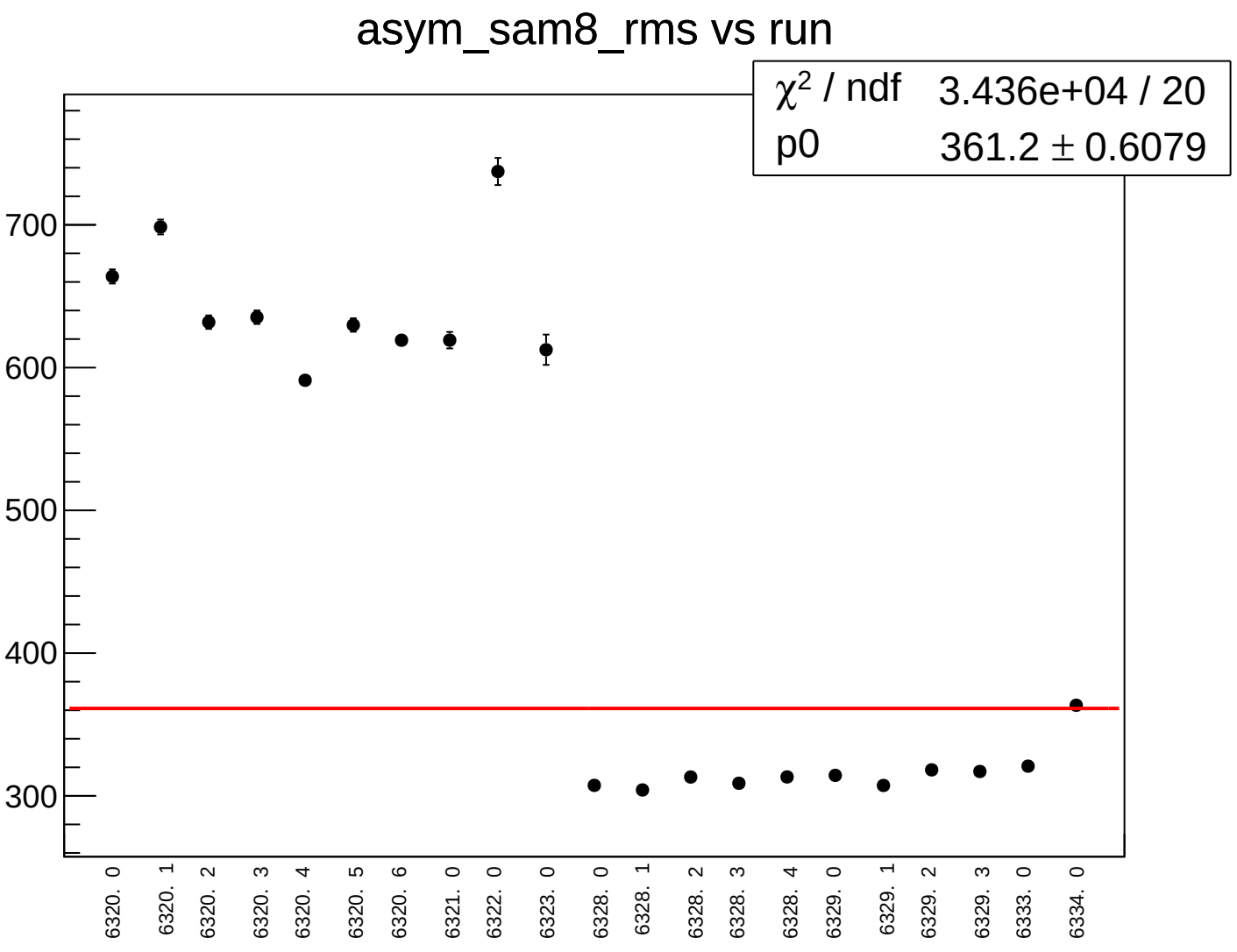

dit_asym_sam8_rms vs run
χ^2 / ndf 1318 / 20
p0 74.93 ± 0.1206
120
110
100
90
80
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

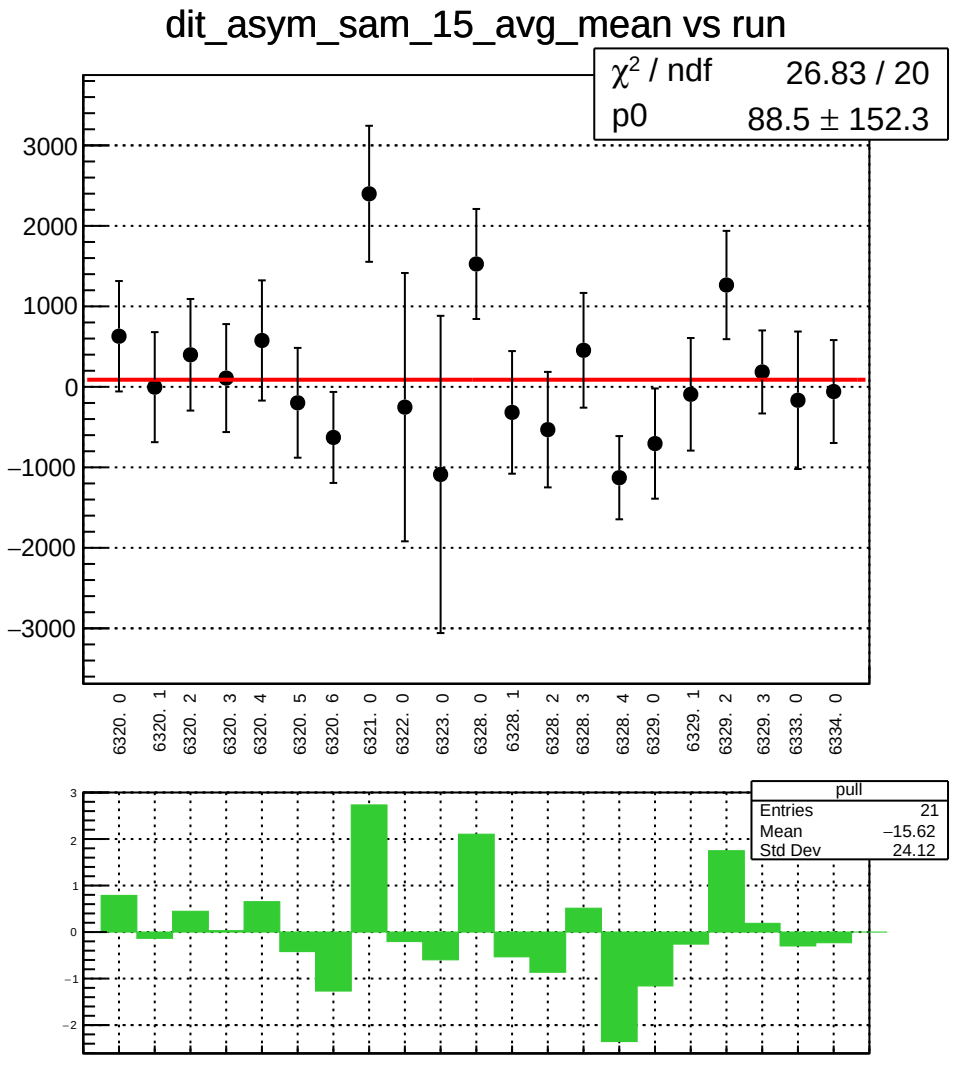

asym_sam8_correction_mean vs run
χ² / ndf 28.19 / 20
p0 −950.2 ± 847
50000
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.23
Std Dev 4.41
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.04053
Std Dev 1.158
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

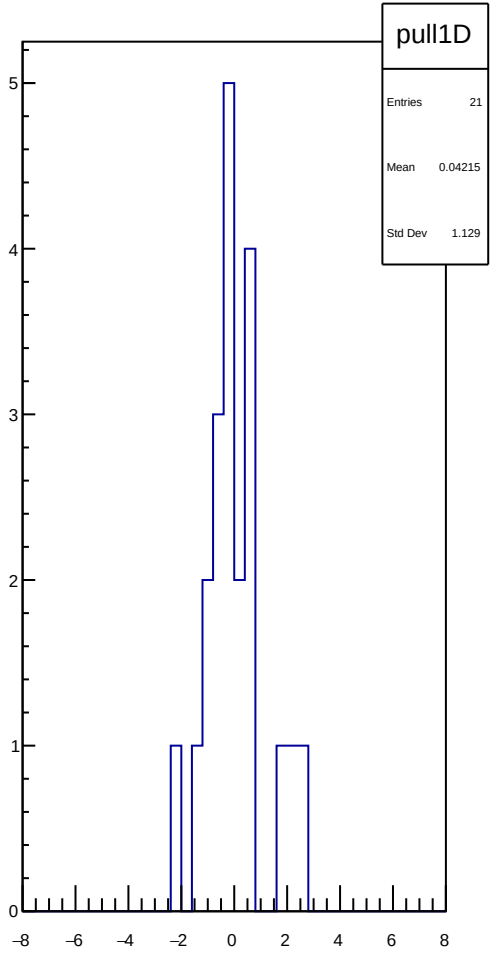

asym_sam8_correction_rms vs run
χ² / ndf 3.402e+04 / 20
p0 356.1 ± 0.5989
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

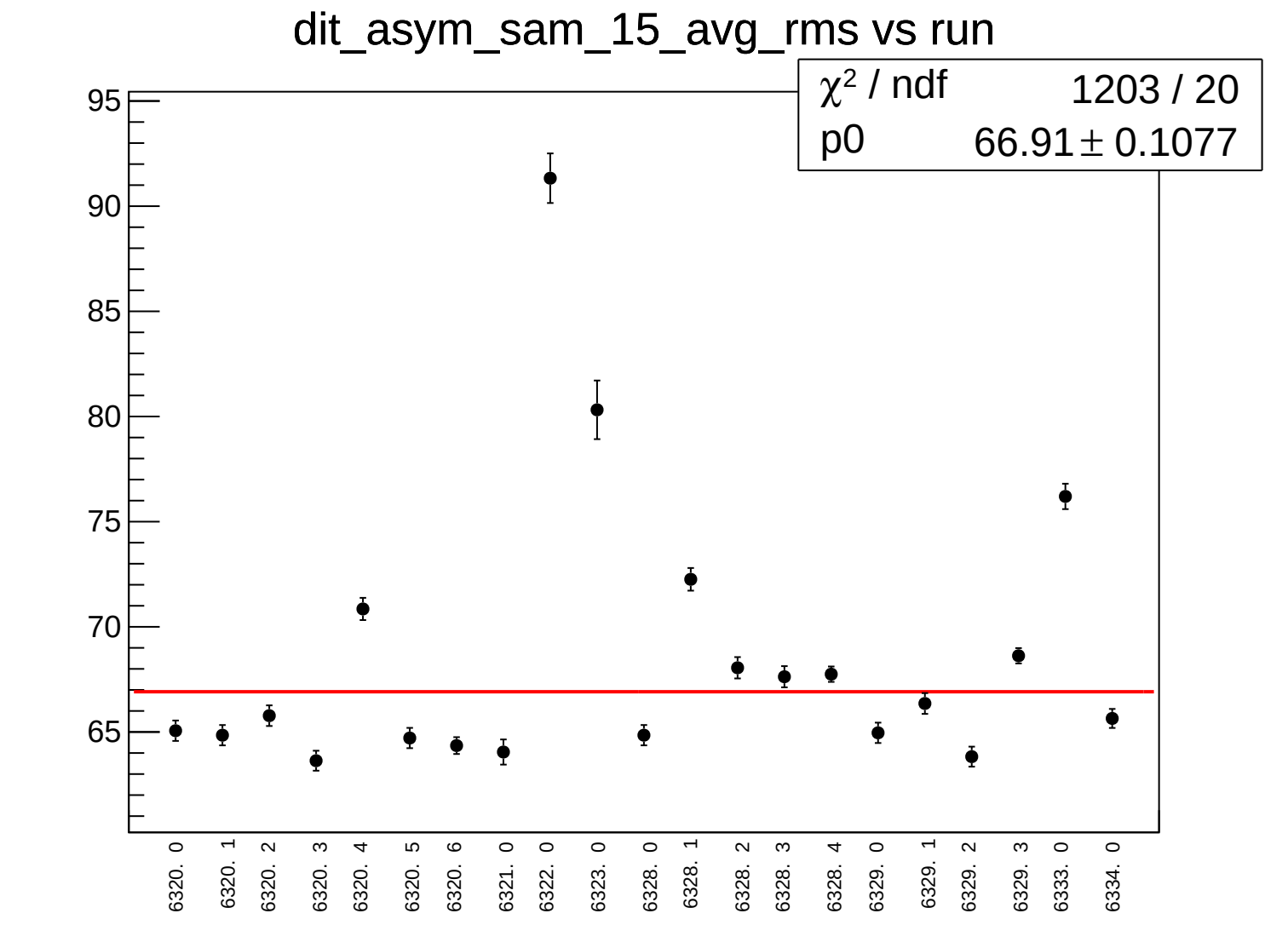

asym_sam8_mean vs run
χ² / ndf 27.83 / 20
p0 619.5 ± 859.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 19.1
Std Dev 8.428
2
1
0
−1
−2

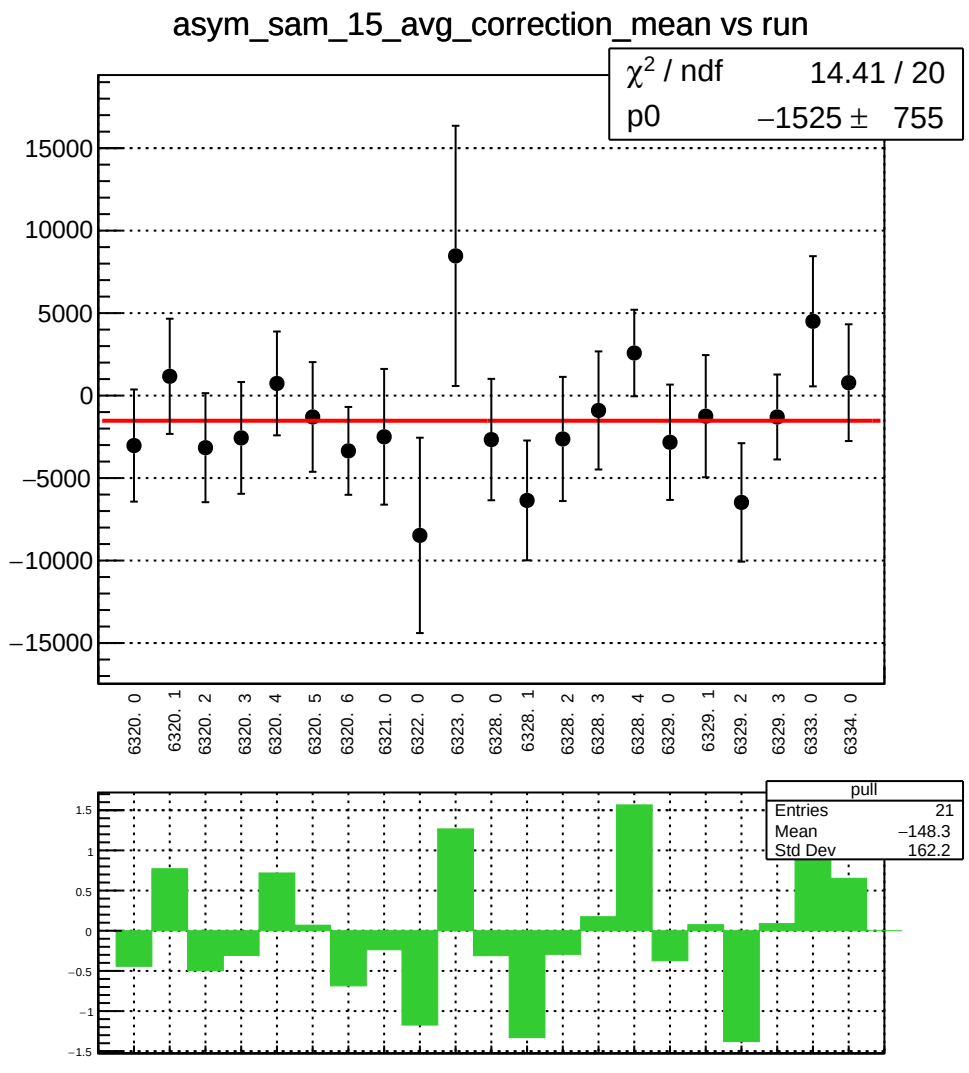

pull1D
Entries 21
Mean −0.03986
Std Dev 1.151
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

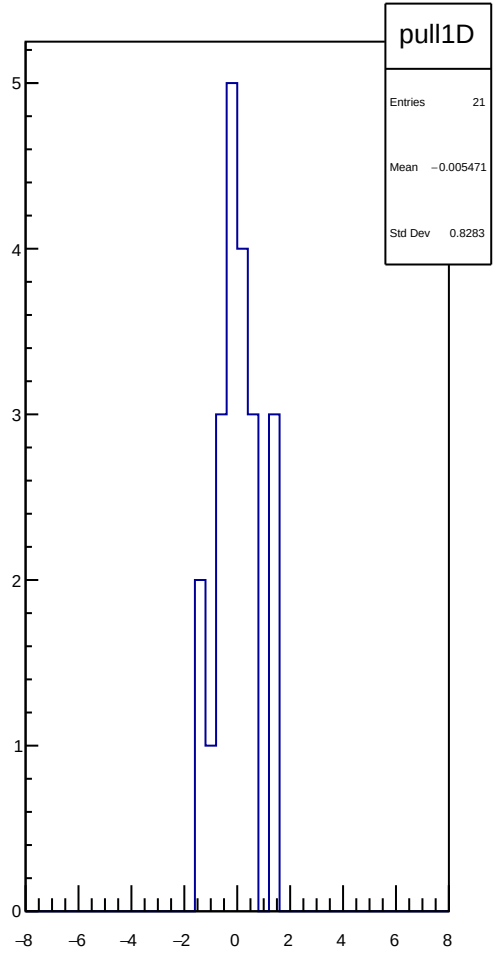

asym_sam8_rms vs run
χ² / ndf 3.436e+04 / 20
p0 361.2 ± 0.6079
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

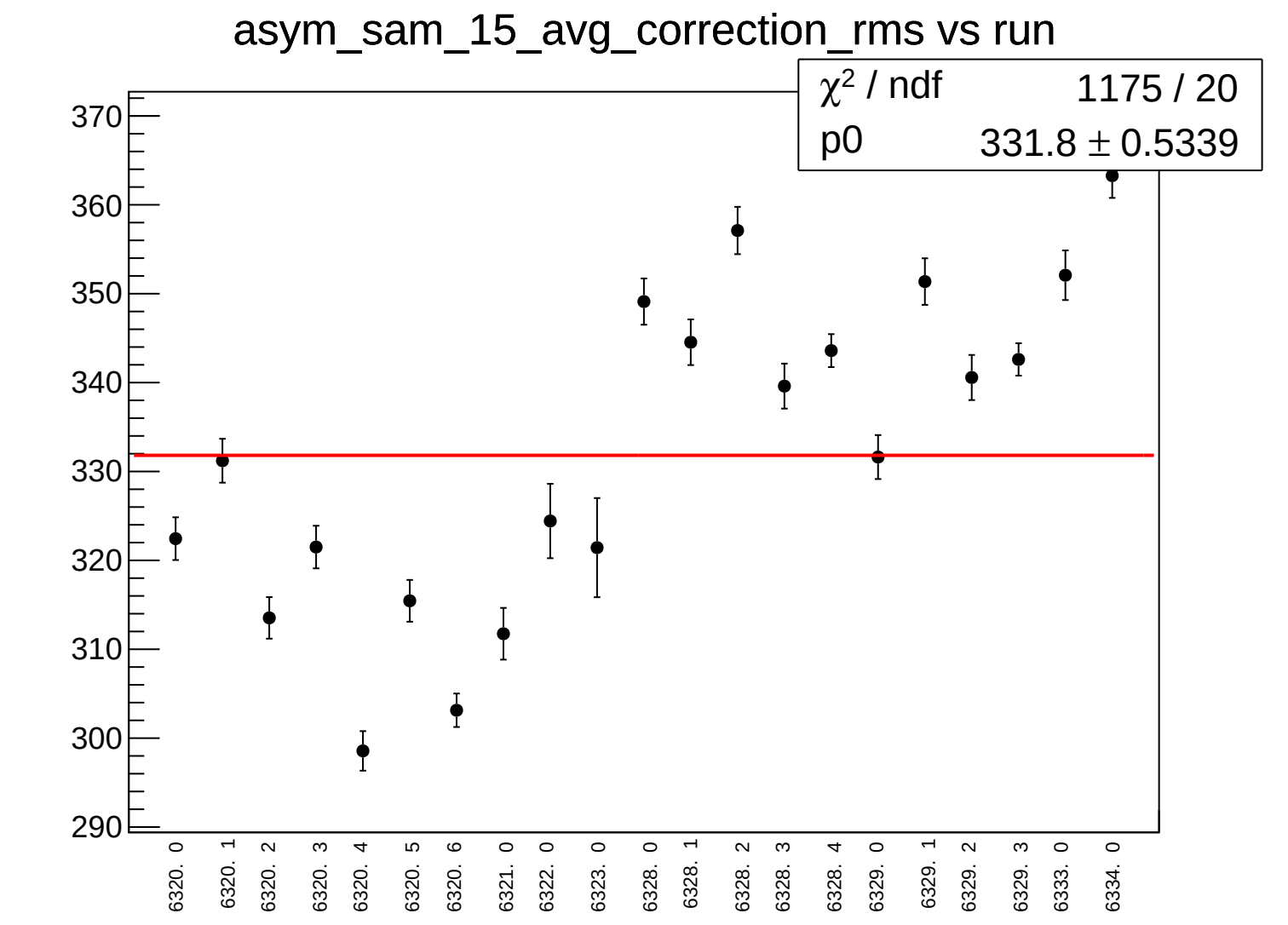

dit_asym_sam_15_avg_mean vs run
χ² / ndf 26.83 / 20
p0 88.5 ± 152.3
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.62
Std Dev 24.12
3
2
1
0
−1
−2

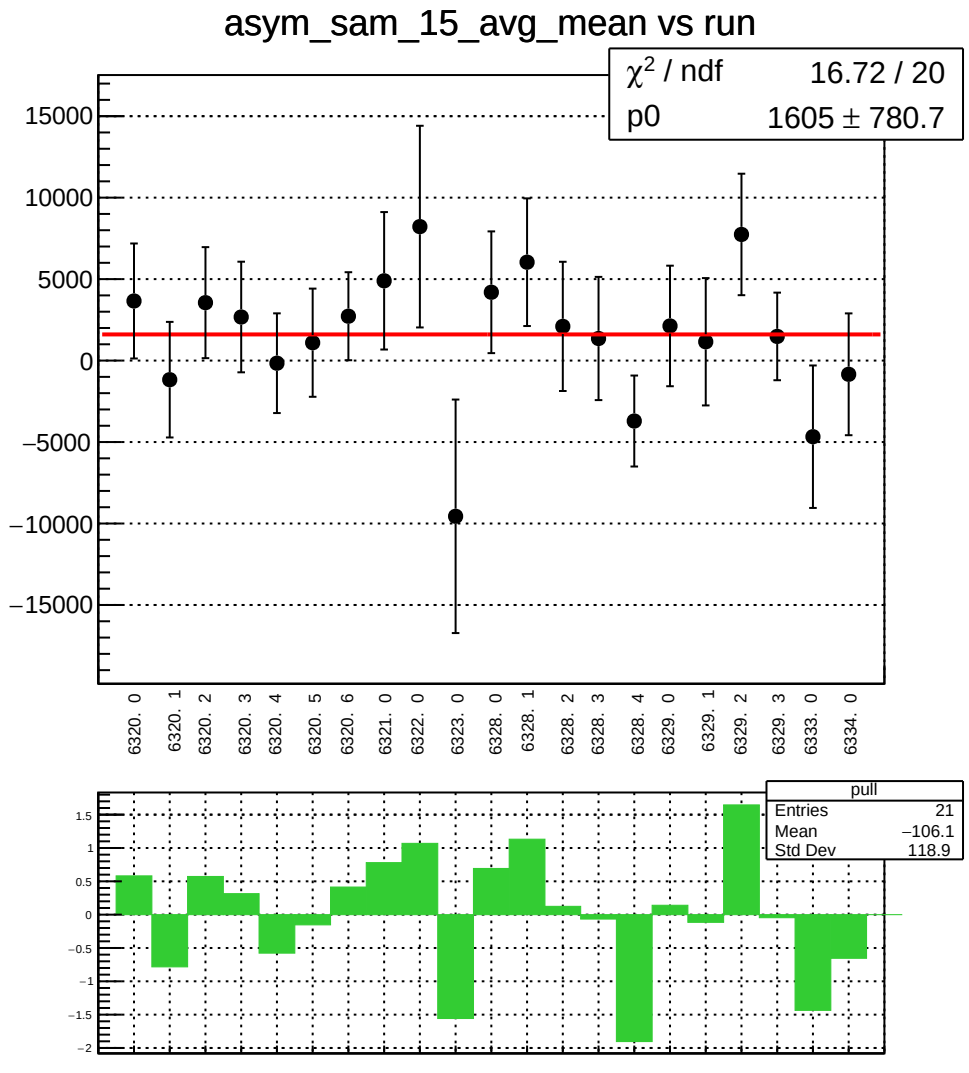

pull1D
Entries 21
Mean 0.04215
Std Dev 1.129
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

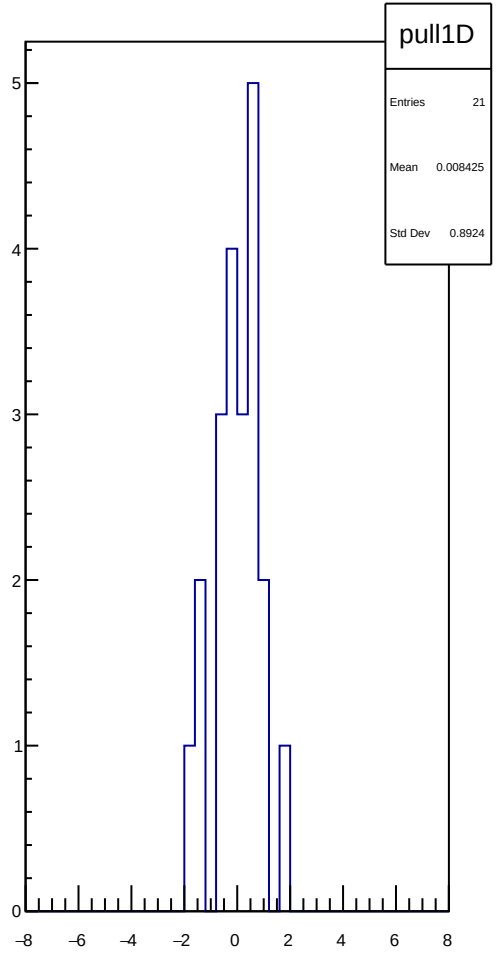

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1203 / 20
p0 66.91 ± 0.1077
95
90
85
80
75
70
65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

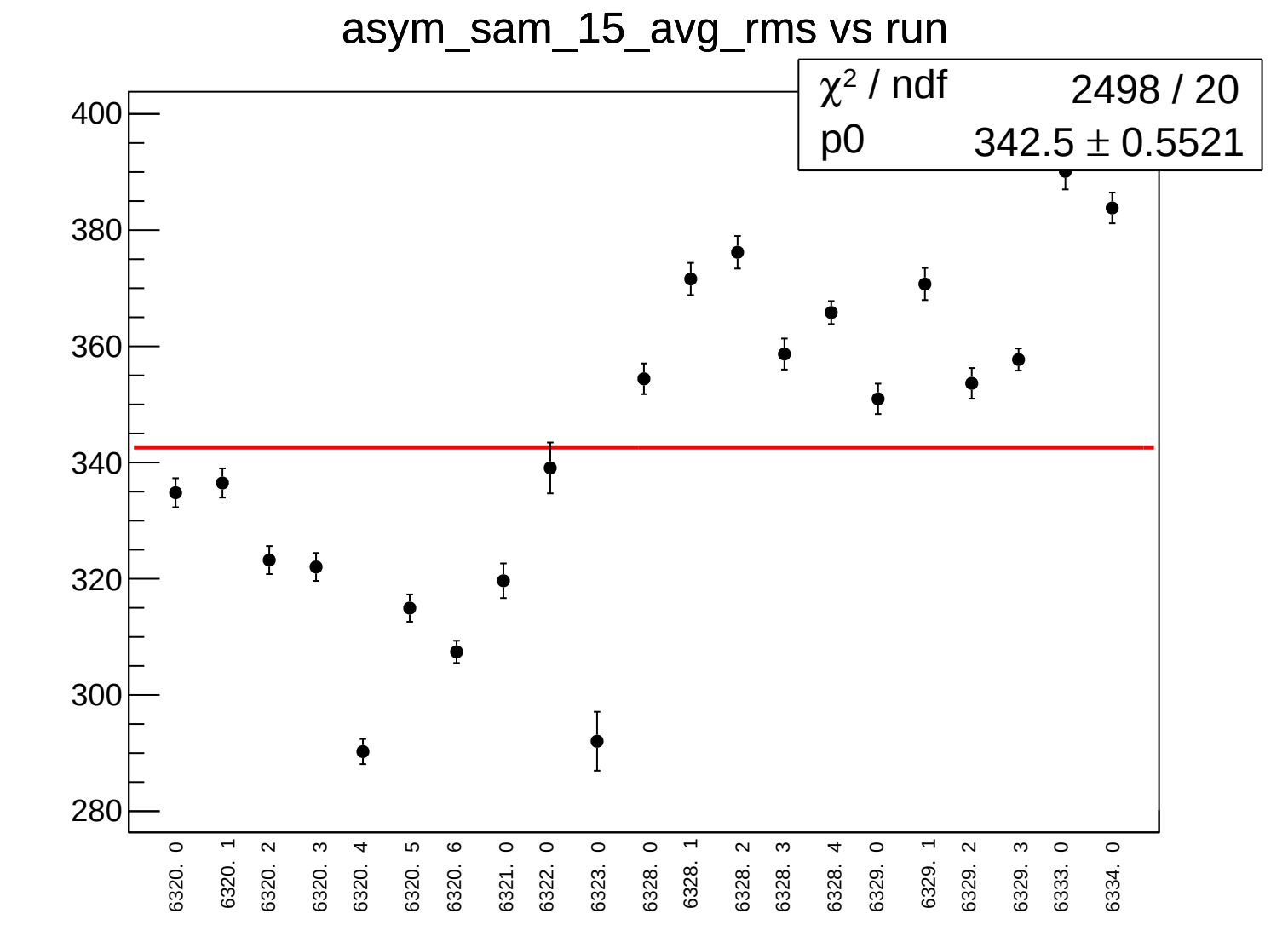

asym_sam_15_avg_correction_mean vs run
χ² / ndf 14.41 / 20
p0 −1525 ± 755
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −148.3
Std Dev 162.2
1.5
1
0.5
0
−0.5
−1
−1.5

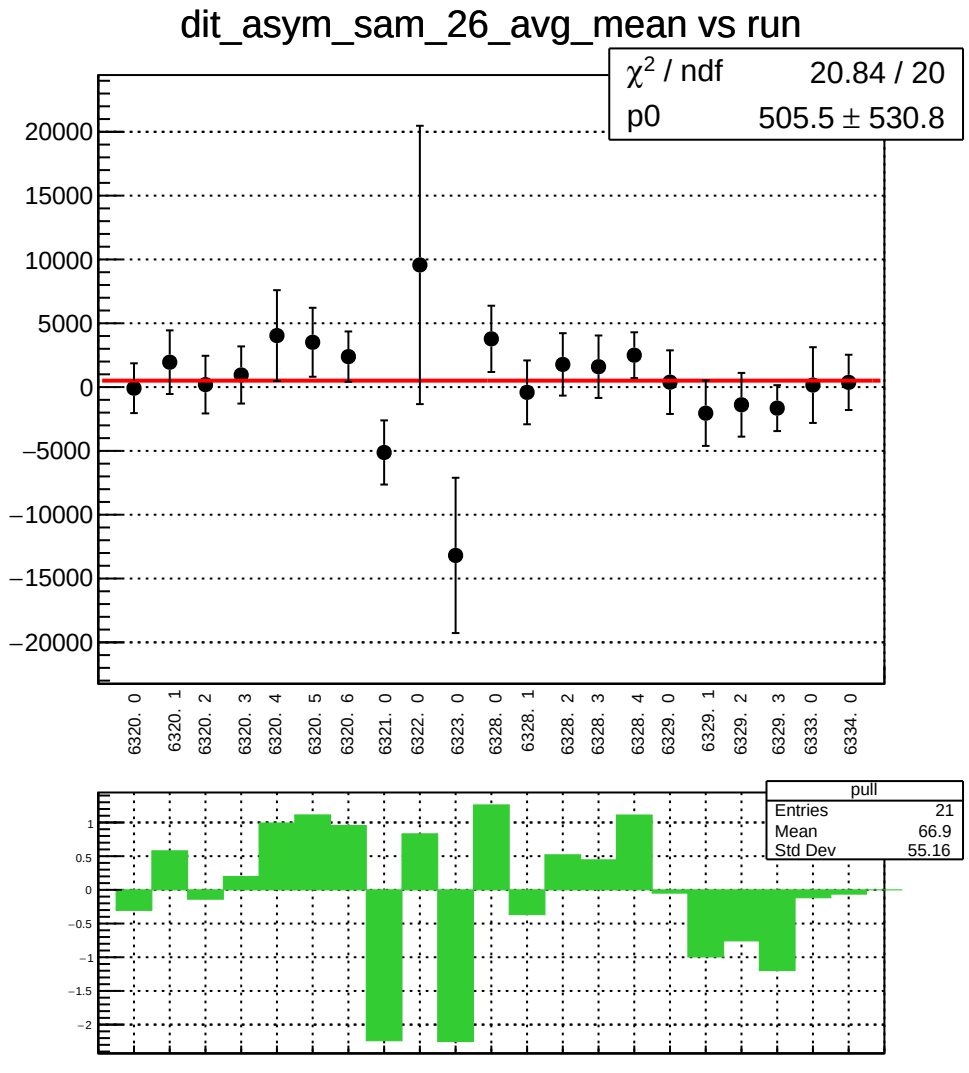

pull1D
Entries 21
Mean −0.005471
Std Dev 0.8283
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

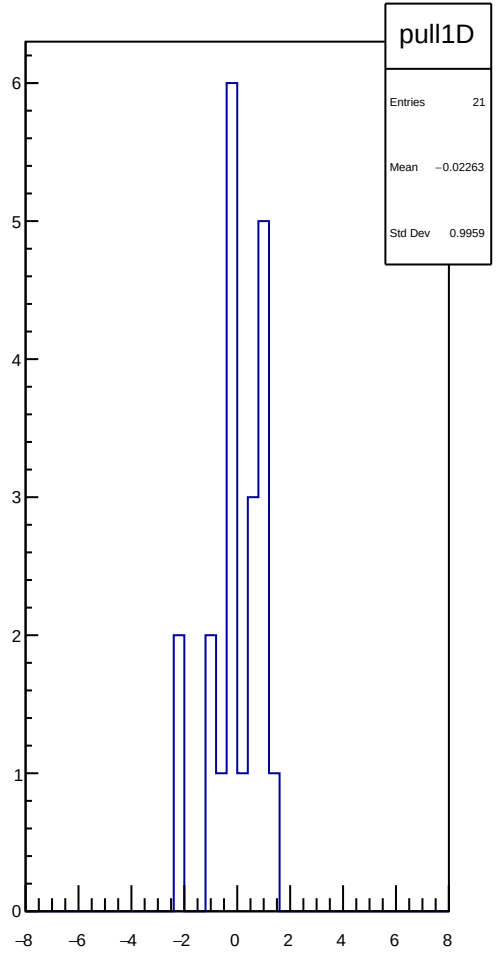

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1175 / 20
p0 331.8 ± 0.5339
370
360
350
340
330
320
310
300
290
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

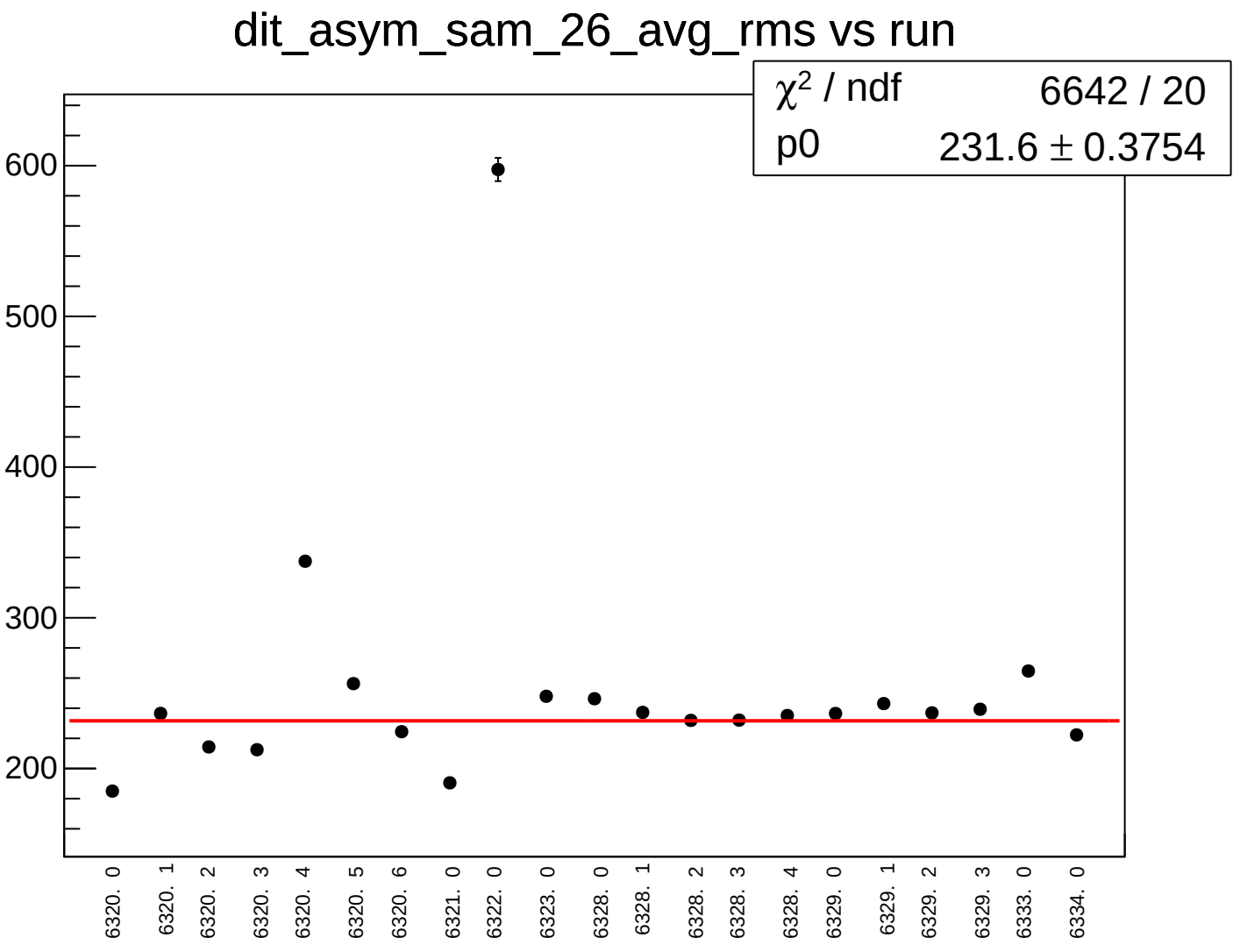

asym_sam_15_avg_mean vs run
χ² / ndf 16.72 / 20
p0 1605 ± 780.7
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −106.1
Std Dev 118.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

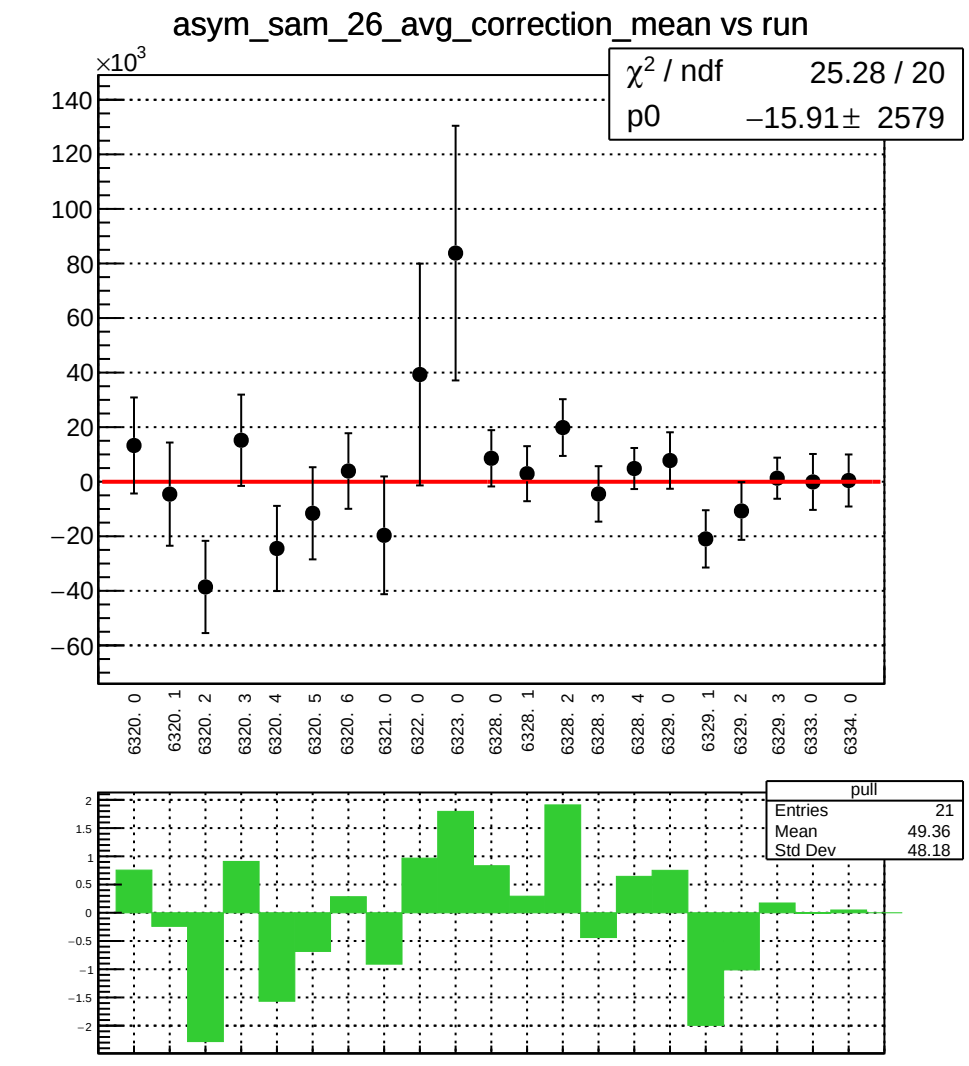

pull1D
Entries 21
Mean 0.008425
Std Dev 0.8924
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

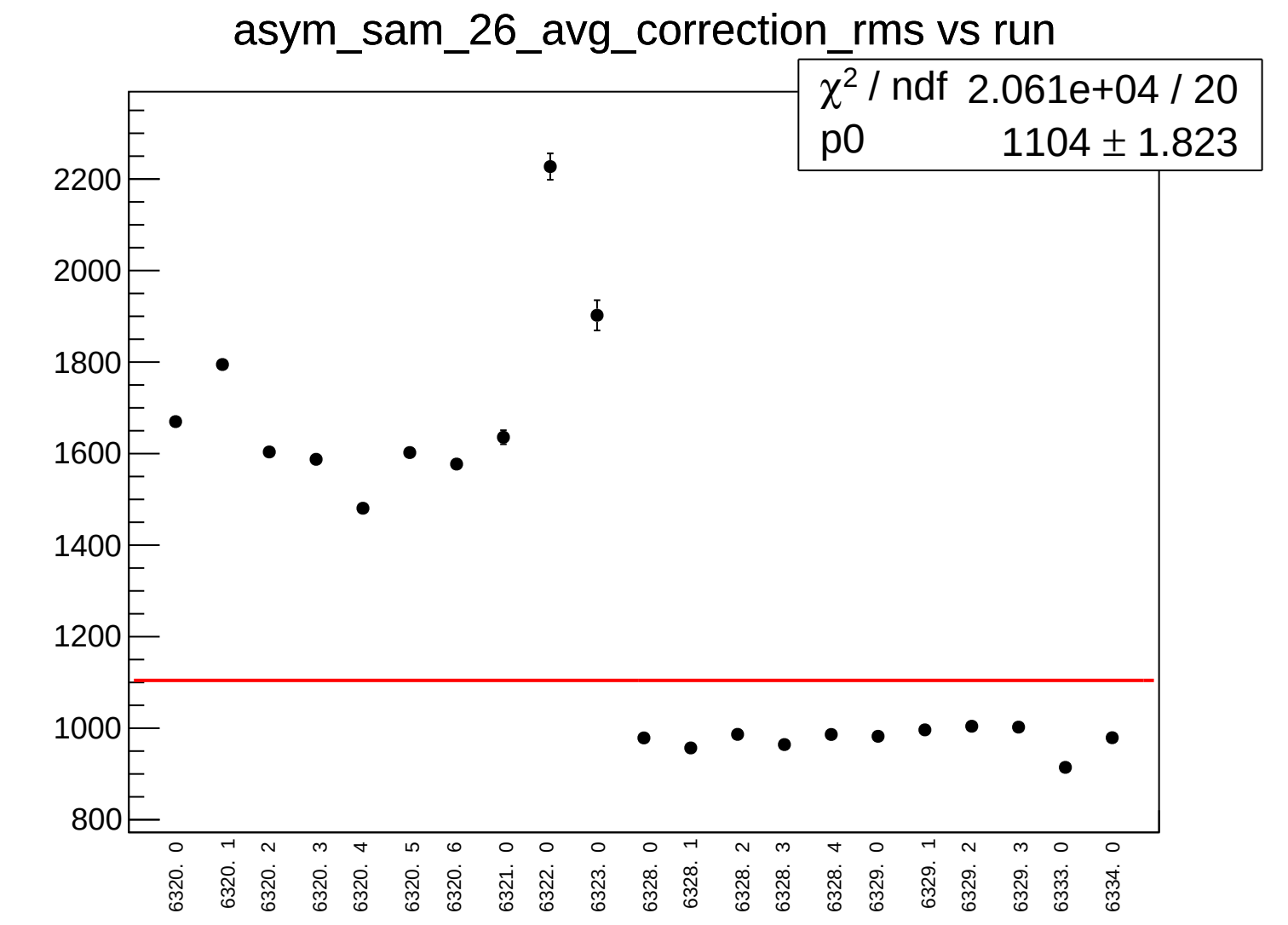

asym_sam_15_avg_rms vs run
χ² / ndf 2498 / 20
p0 342.5 ± 0.5521
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

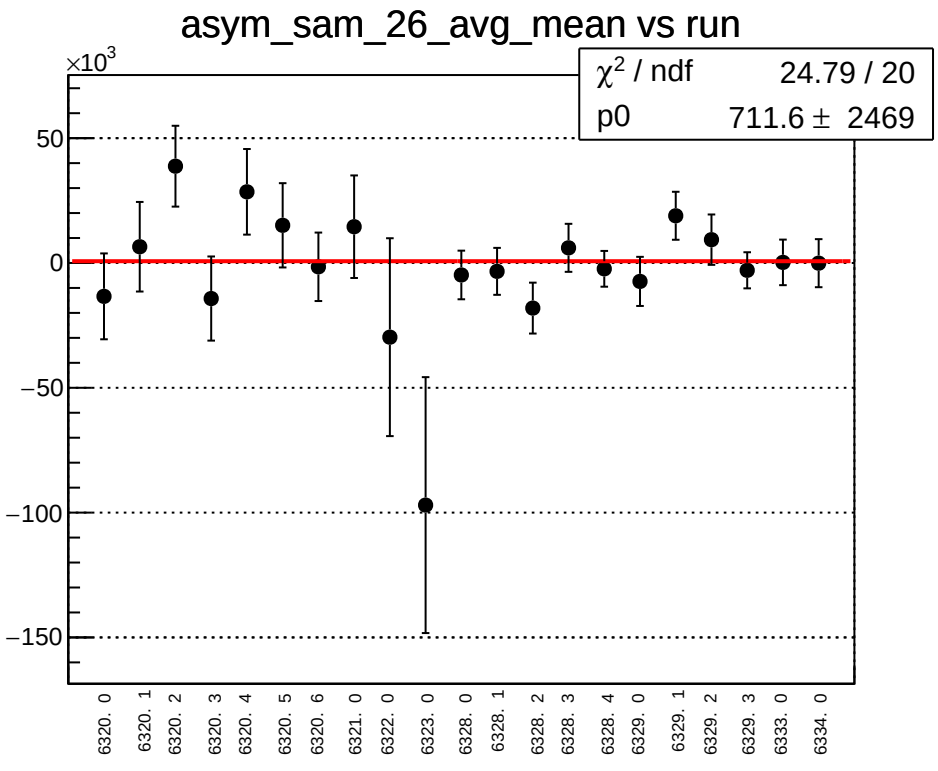

dit_asym_sam_26_avg_mean vs run
χ² / ndf 20.84 / 20
p0 505.5 ± 530.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 66.9
Std Dev 55.16
1
0.5
0
−0.5
−1
−1.5
−2

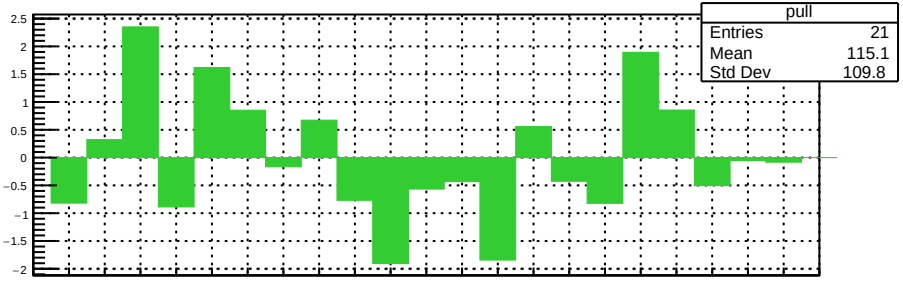

pull1D
Entries 21
Mean −0.02263
Std Dev 0.9959
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

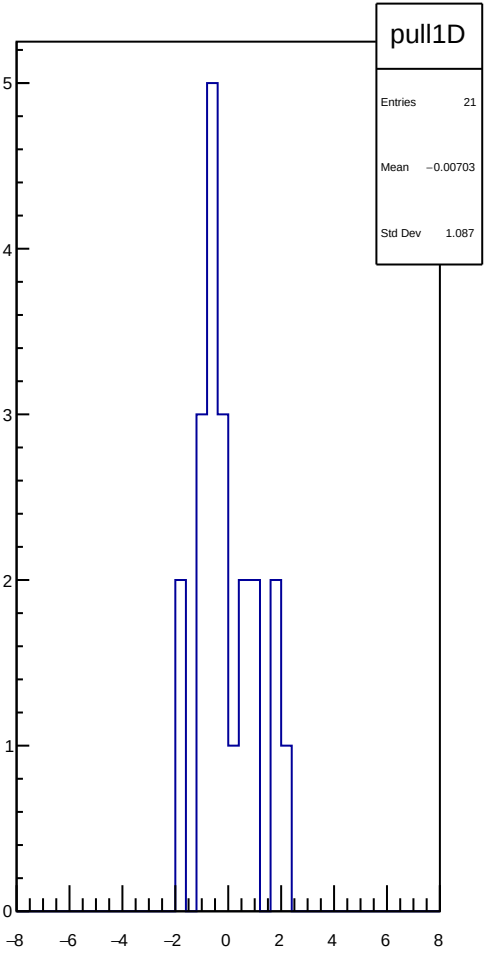

dit_asym_sam_26_avg_rms vs run
χ² / ndf 6642 / 20
p0 231.6 ± 0.3754
600
500
400
300
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

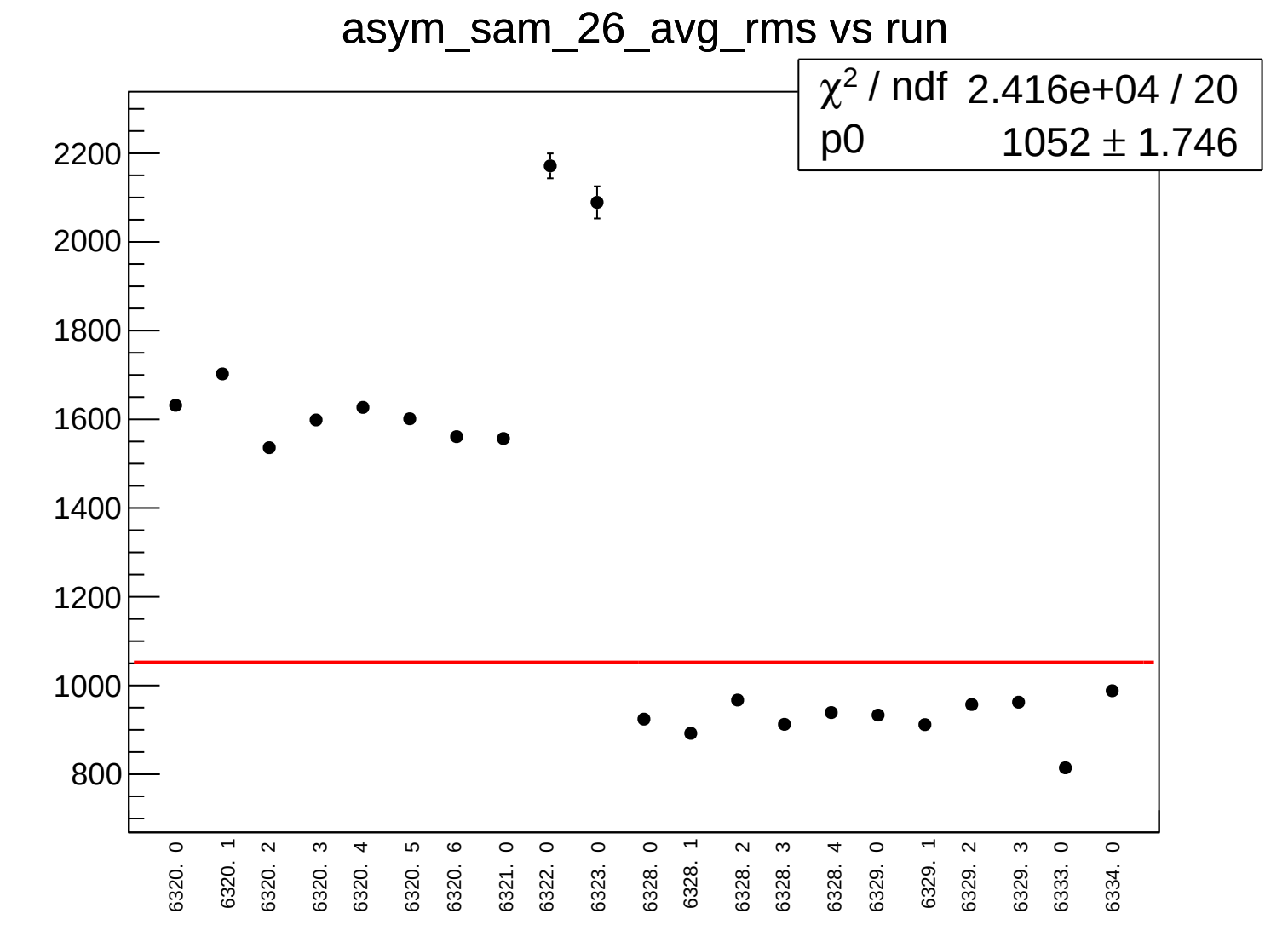

asym_sam_26_avg_correction_mean vs run
×10^3
χ^2 / ndf 25.28 / 20
p0 −15.91± 2579
140
120
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 49.36
Std Dev 48.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.01113
Std Dev 1.097
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

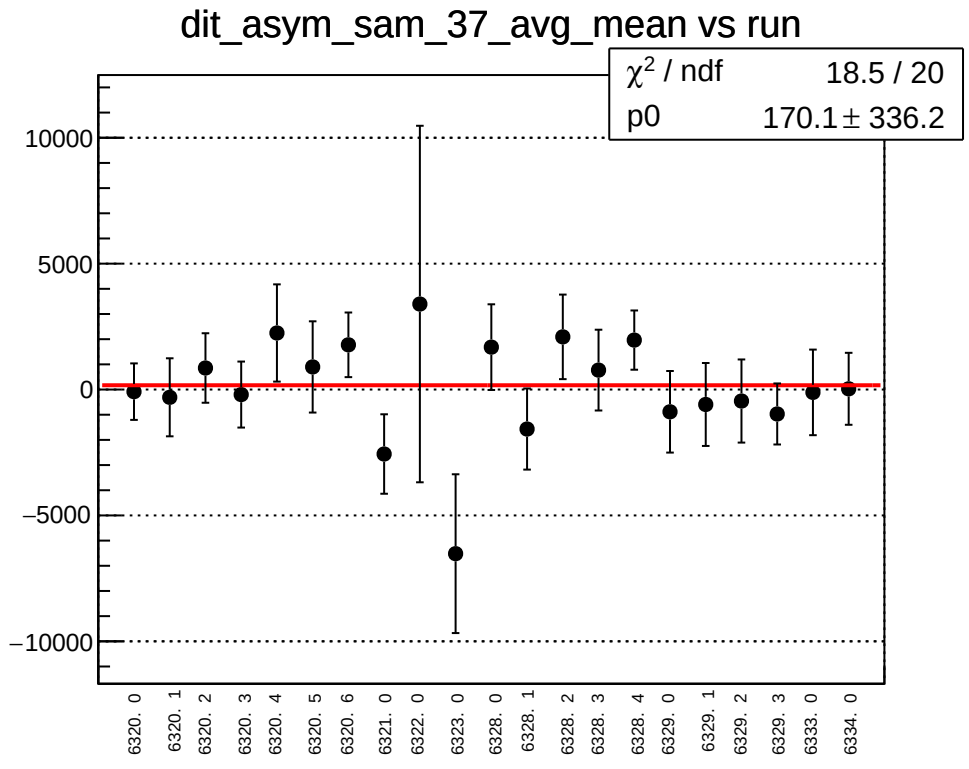

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2.061e+04 / 20
p0 1104 ± 1.823
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

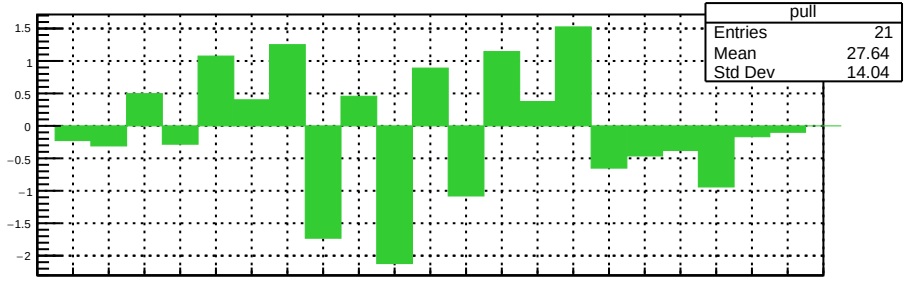

asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 24.79 / 20
p0 711.6 ± 2469
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

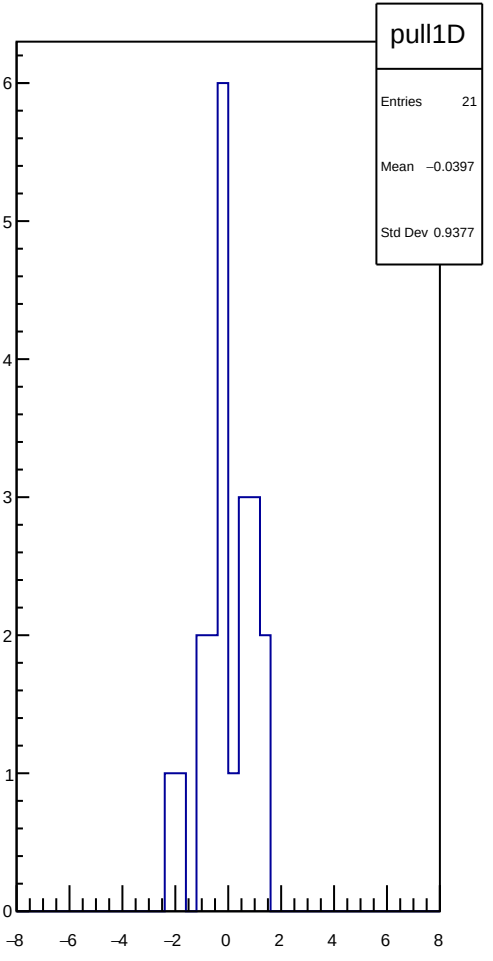

pull
Entries 21
Mean 115.1
Std Dev 109.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

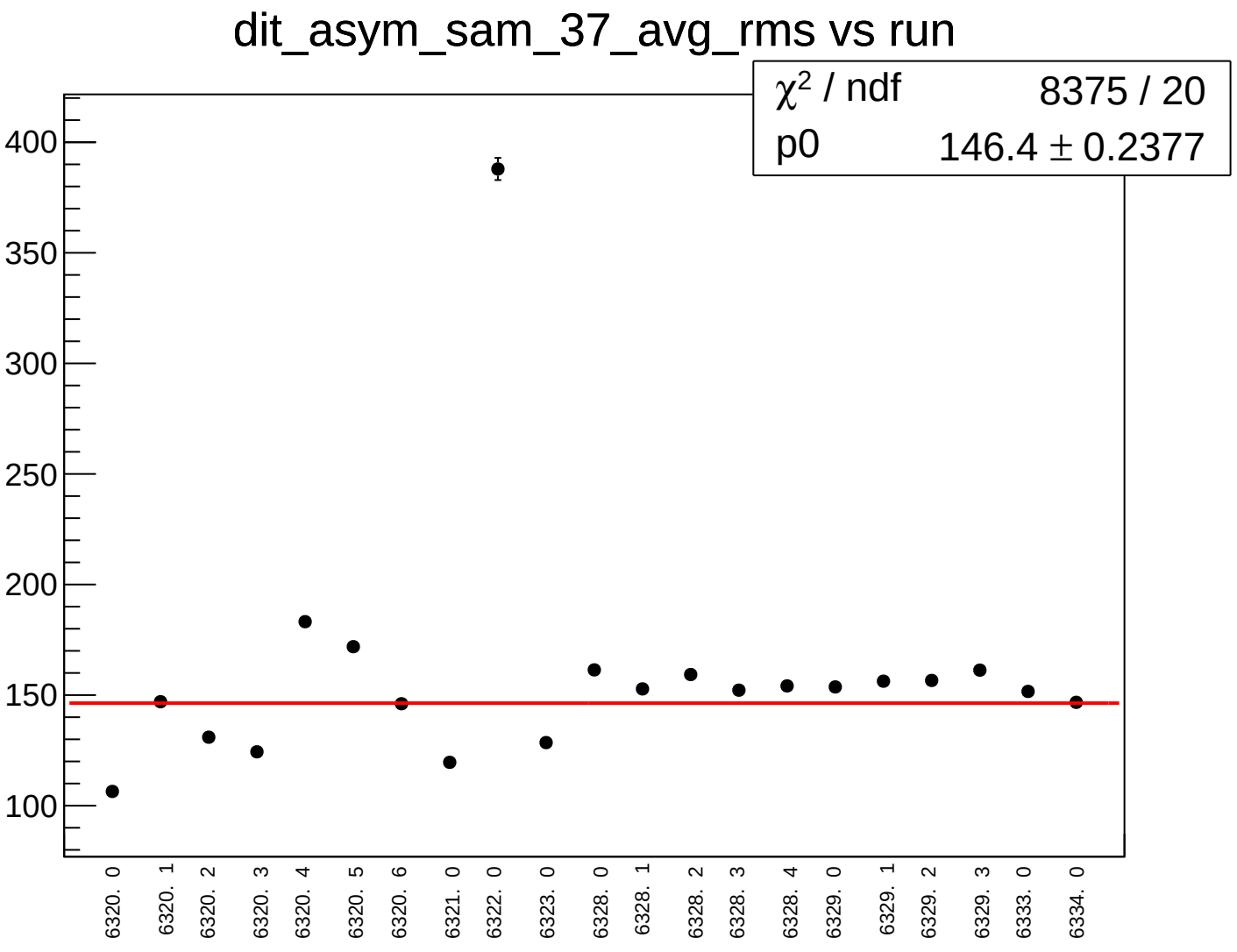

pull1D
Entries 21
Mean −0.00703
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

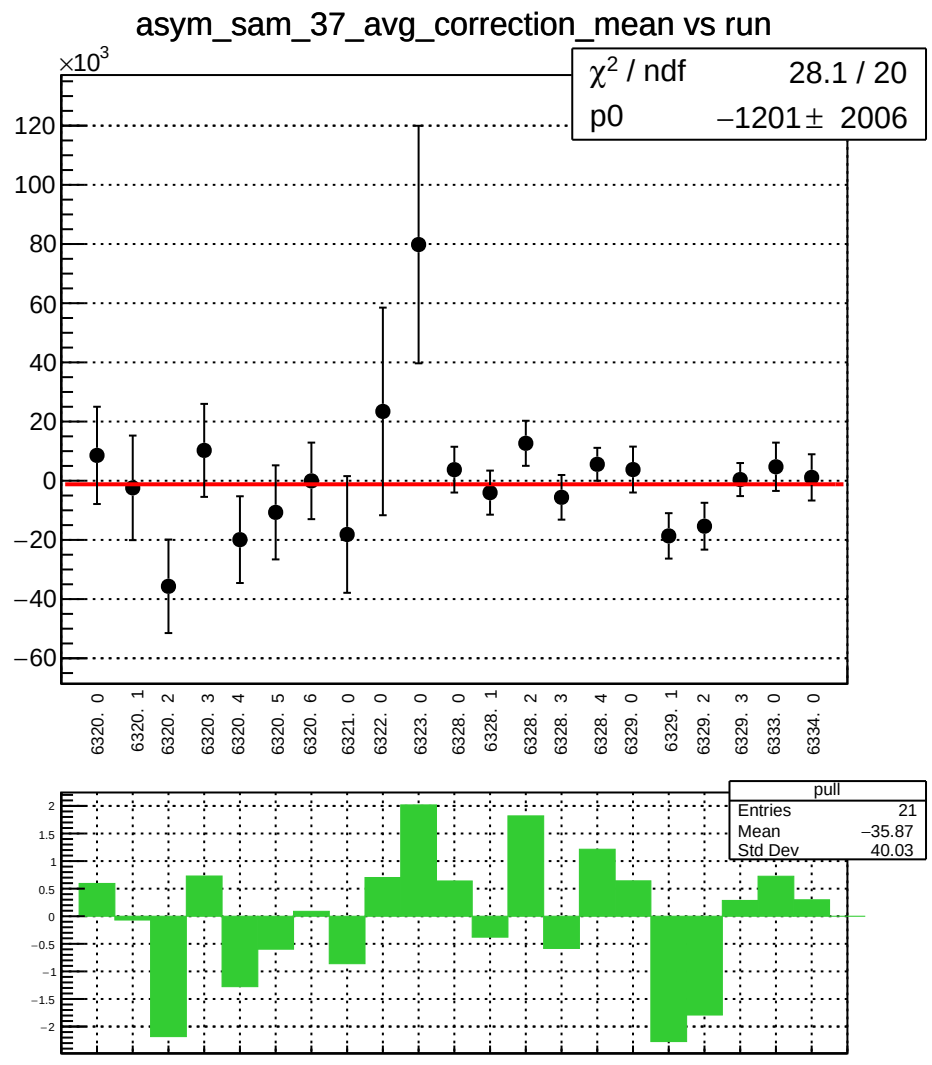

asym_sam_26_avg_rms vs run
χ² / ndf 2.416e+04 / 20
p0 1052 ± 1.746
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

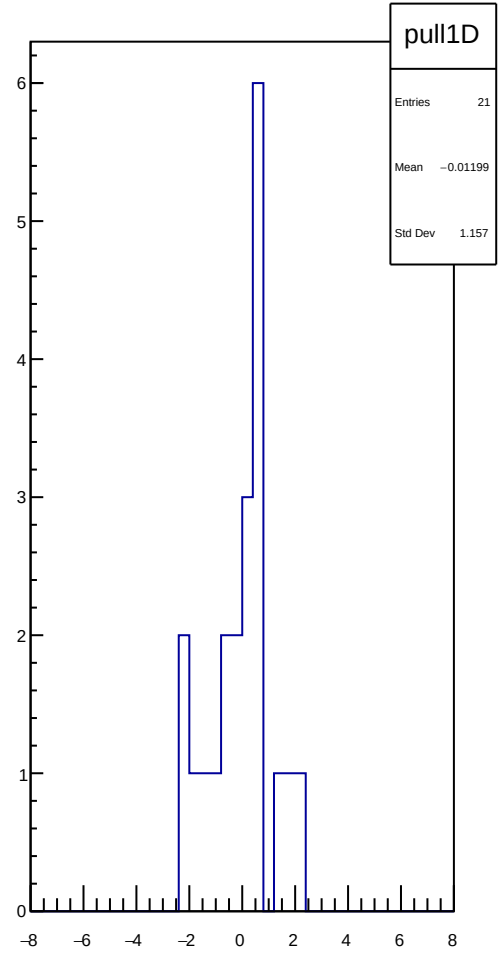

dit_asym_sam_37_avg_mean vs run
χ² / ndf 18.5 / 20
p0 170.1 ± 336.2
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

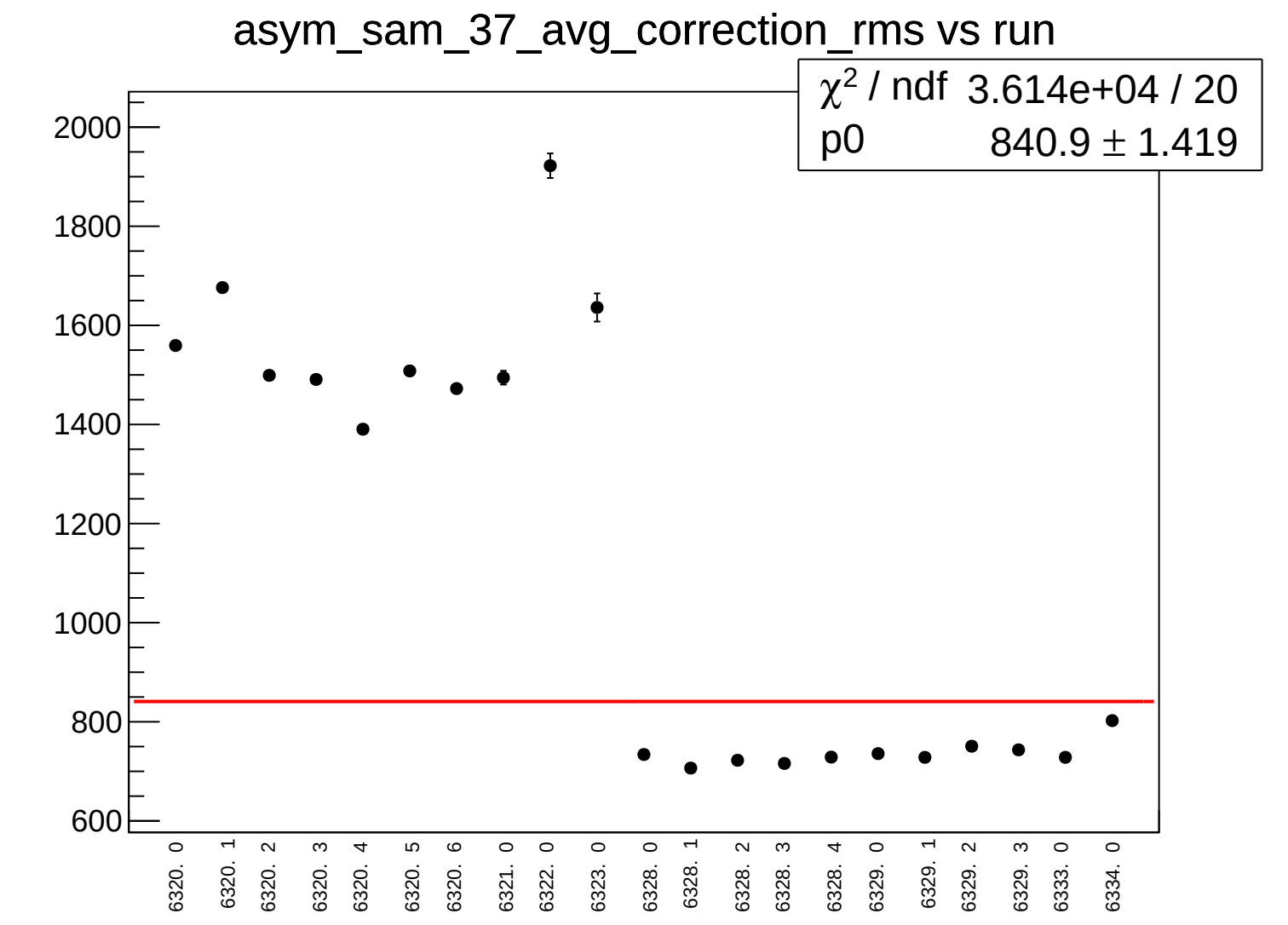

pull
Entries 21
Mean 27.64
Std Dev 14.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

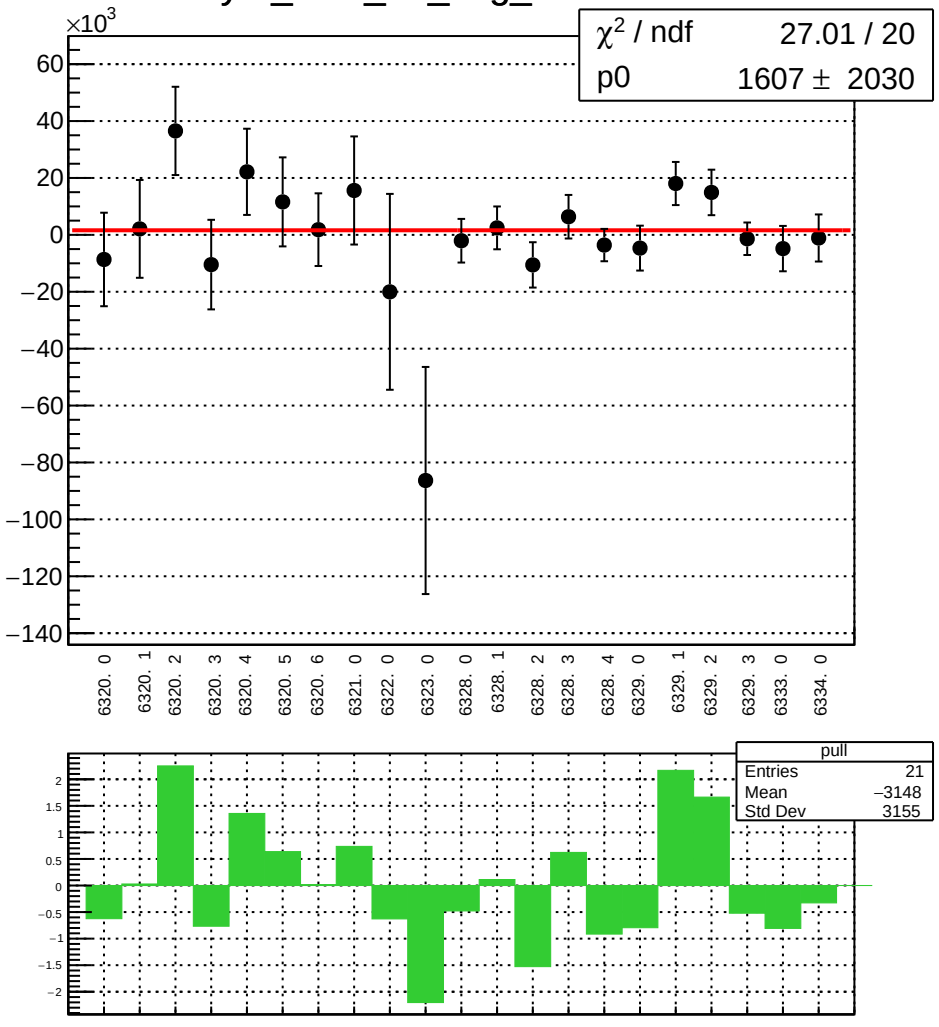

pull1D
Entries 21
Mean −0.0397
Std Dev 0.9377
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

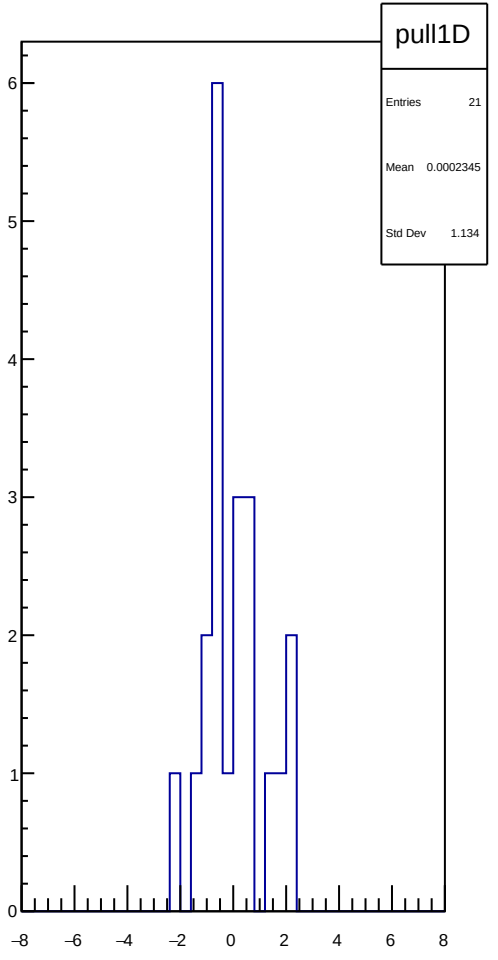

dit_asym_sam_37_avg_rms vs run
χ² / ndf 8375 / 20
p0 146.4 ± 0.2377
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

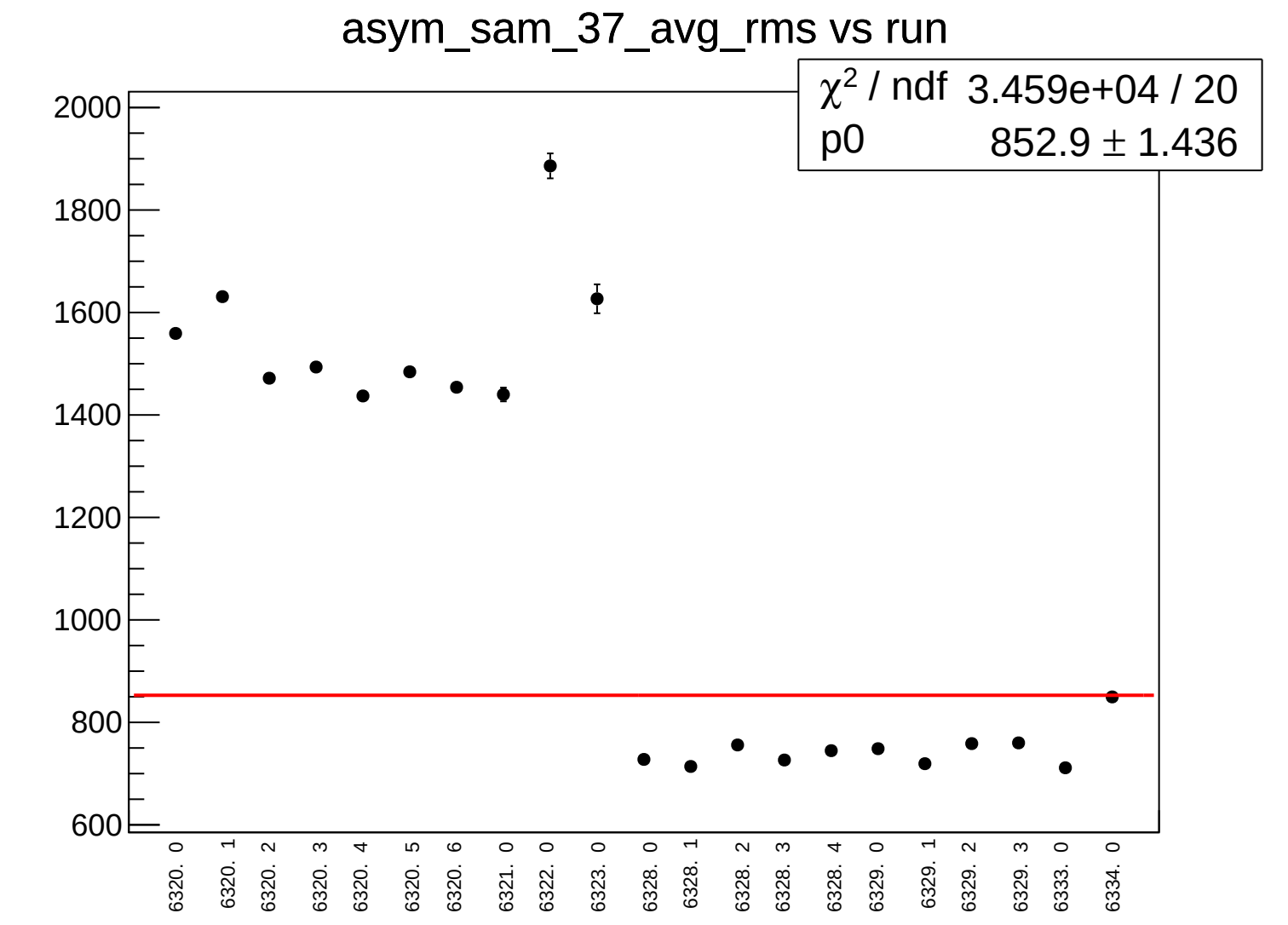

asym_sam_37_avg_correction_mean vs run
×10^3
χ^2 / ndf 28.1 / 20
p0 −1201 ± 2006
120
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −35.87
Std Dev 40.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

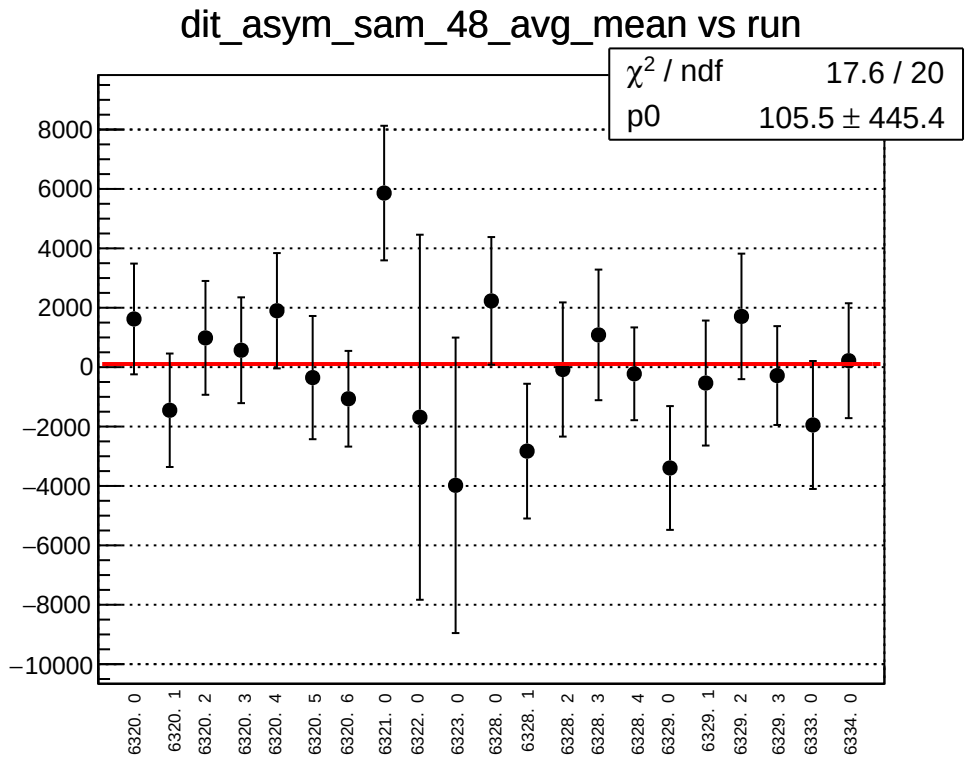

pull1D
Entries 21
Mean −0.01199
Std Dev 1.157
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

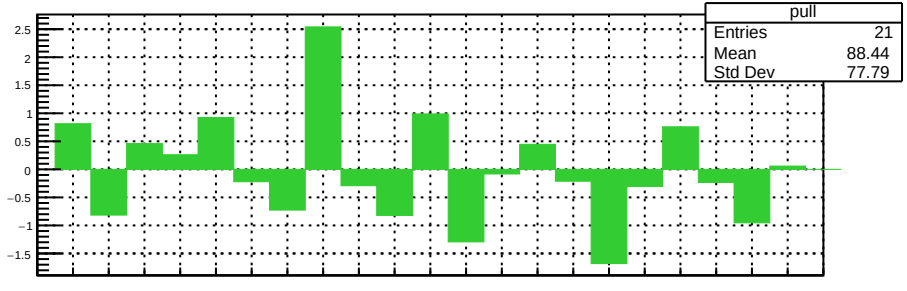

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3.614e+04 / 20
p0 840.9 ± 1.419
2000
1800
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

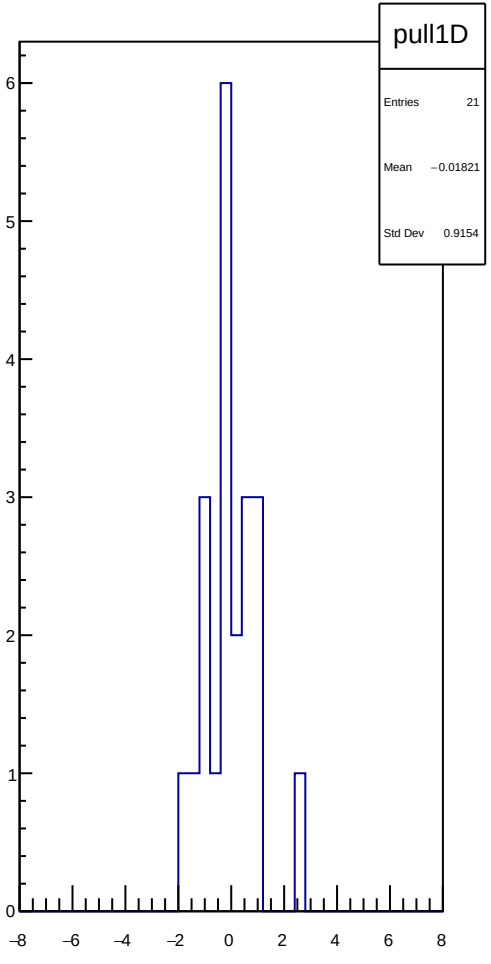

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 27.01 / 20
p0 1607 ± 2030
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3148
Std Dev 3155
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

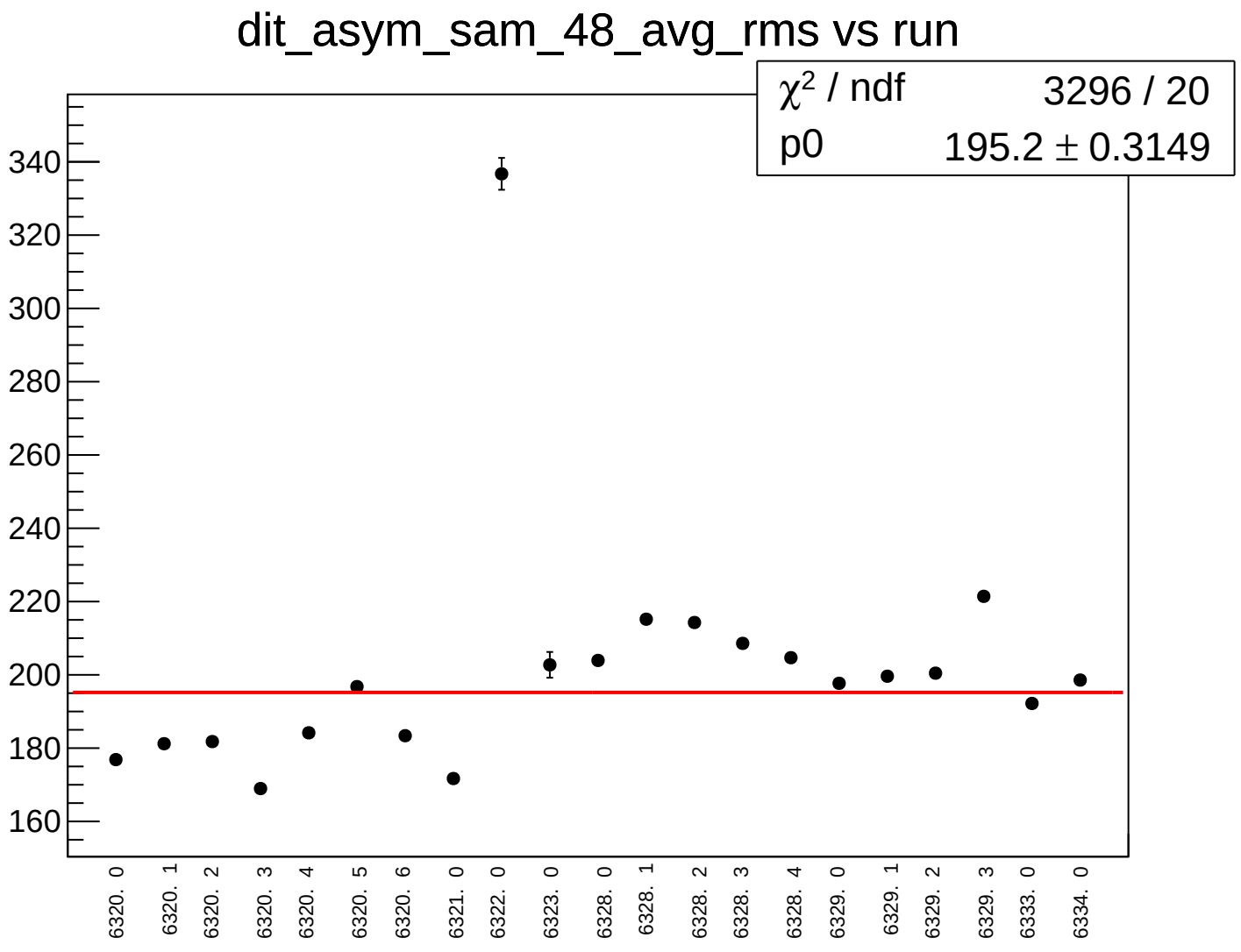

pull1D
Entries 21
Mean 0.0002345
Std Dev 1.134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

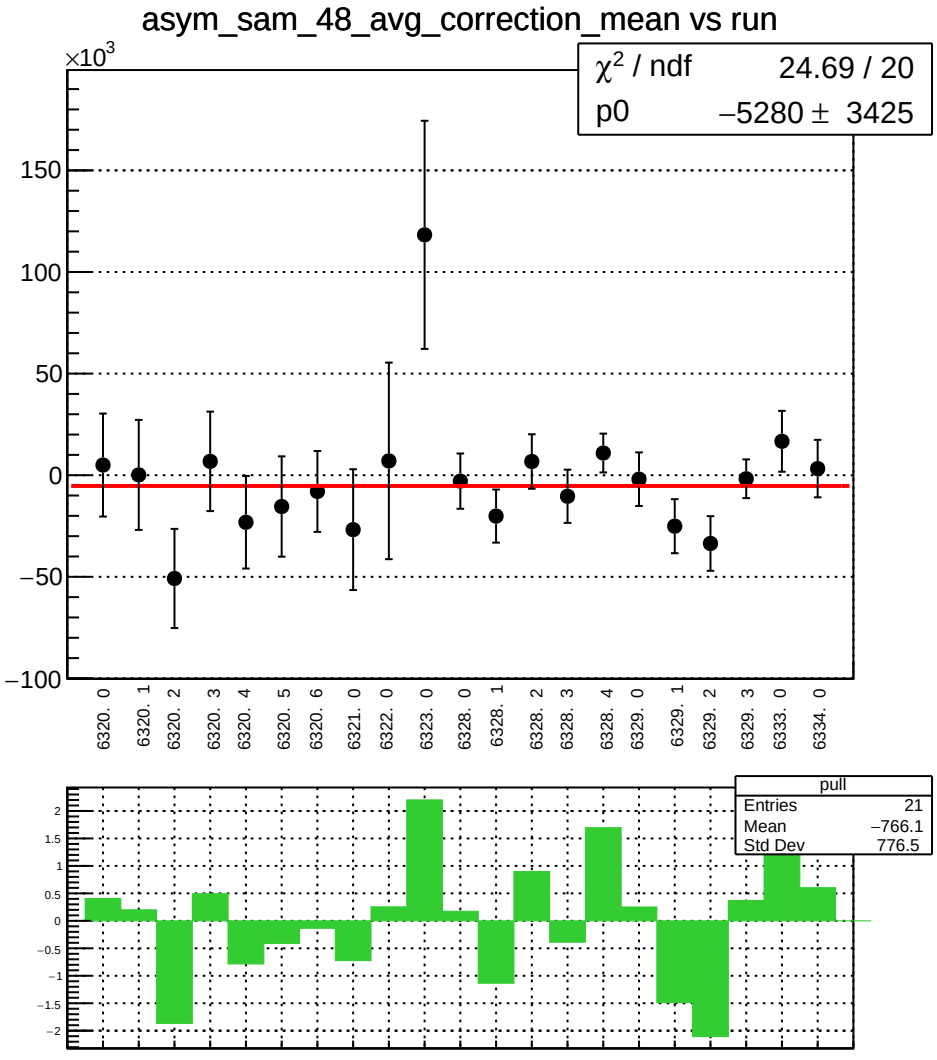

asym_sam_37_avg_rms vs run
χ² / ndf 3.459e+04 / 20
p0 852.9 ± 1.436
2000
1800
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

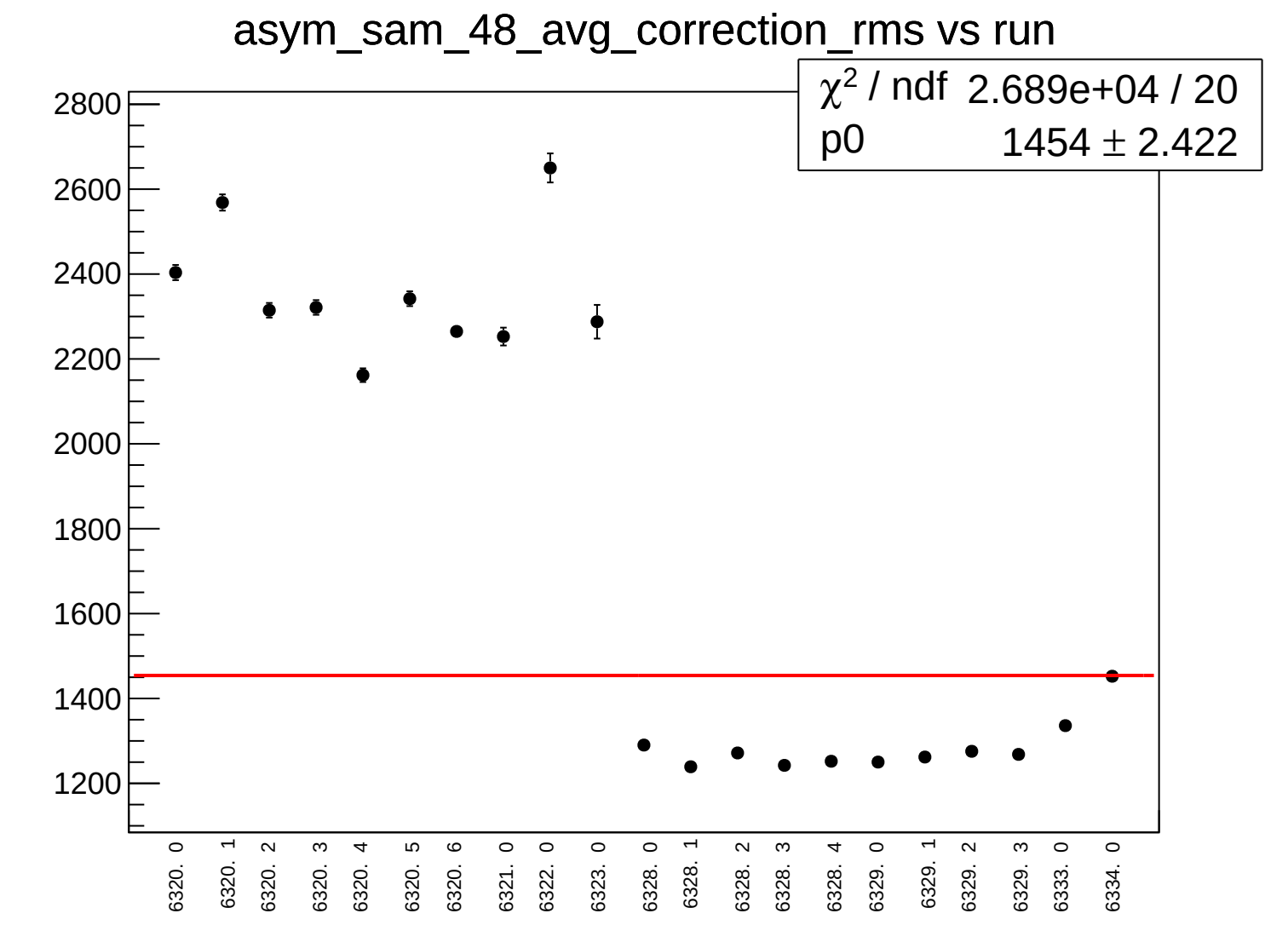

dit_asym_sam_48_avg_mean vs run
χ² / ndf 17.6 / 20
p0 105.5 ± 445.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

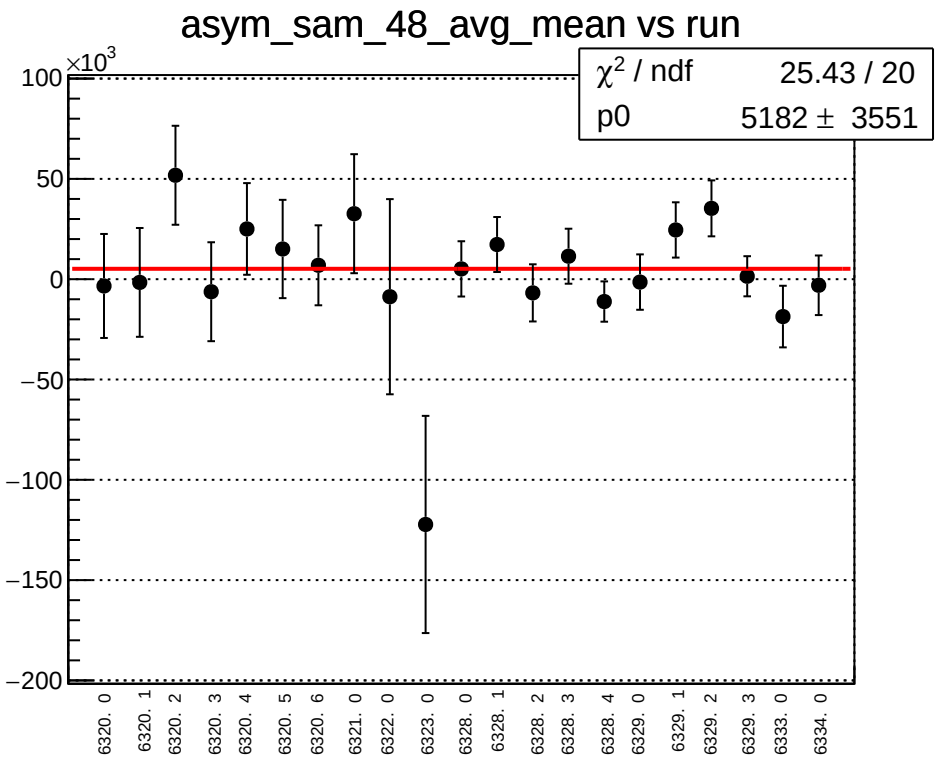

pull
Entries 21
Mean 88.44
Std Dev 77.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

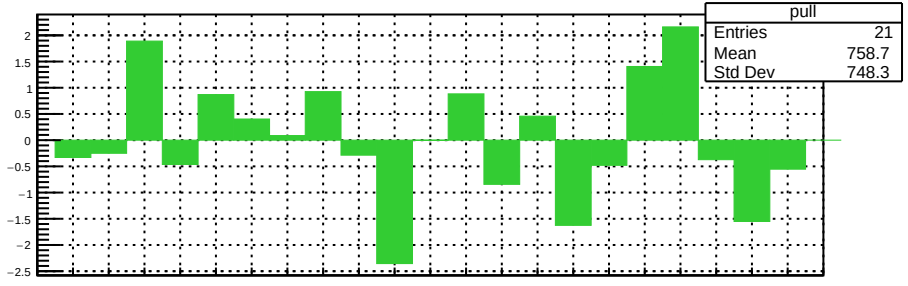

pull1D
Entries 21
Mean −0.01821
Std Dev 0.9154
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

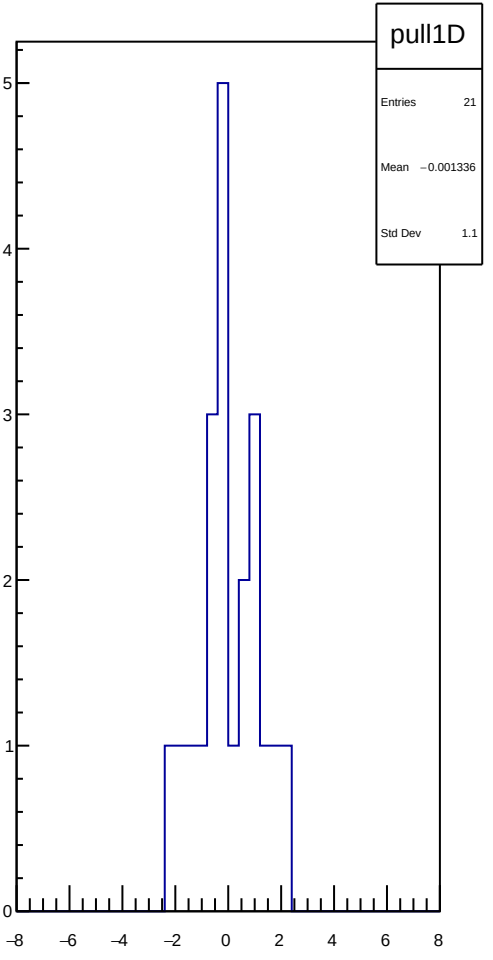

dit_asym_sam_48_avg_rms vs run
χ² / ndf 3296 / 20
p0 195.2 ± 0.3149
340
320
300
280
260
240
220
200
180
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

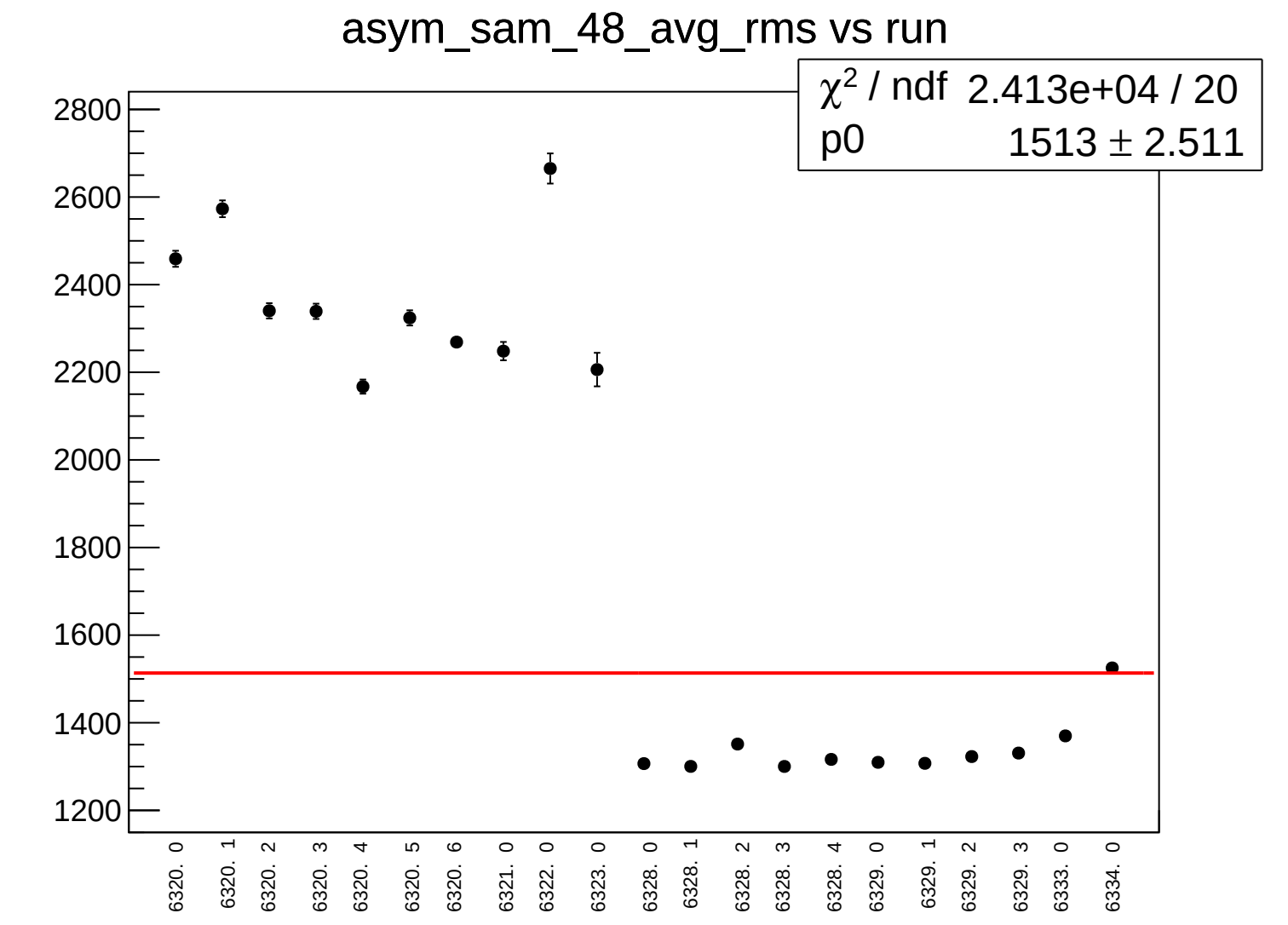

asym_sam_48_avg_correction_mean vs run
χ² / ndf 24.69 / 20
p0 −5280 ± 3425
×10³
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −766.1
Std Dev 776.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.00113
Std Dev 1.084
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

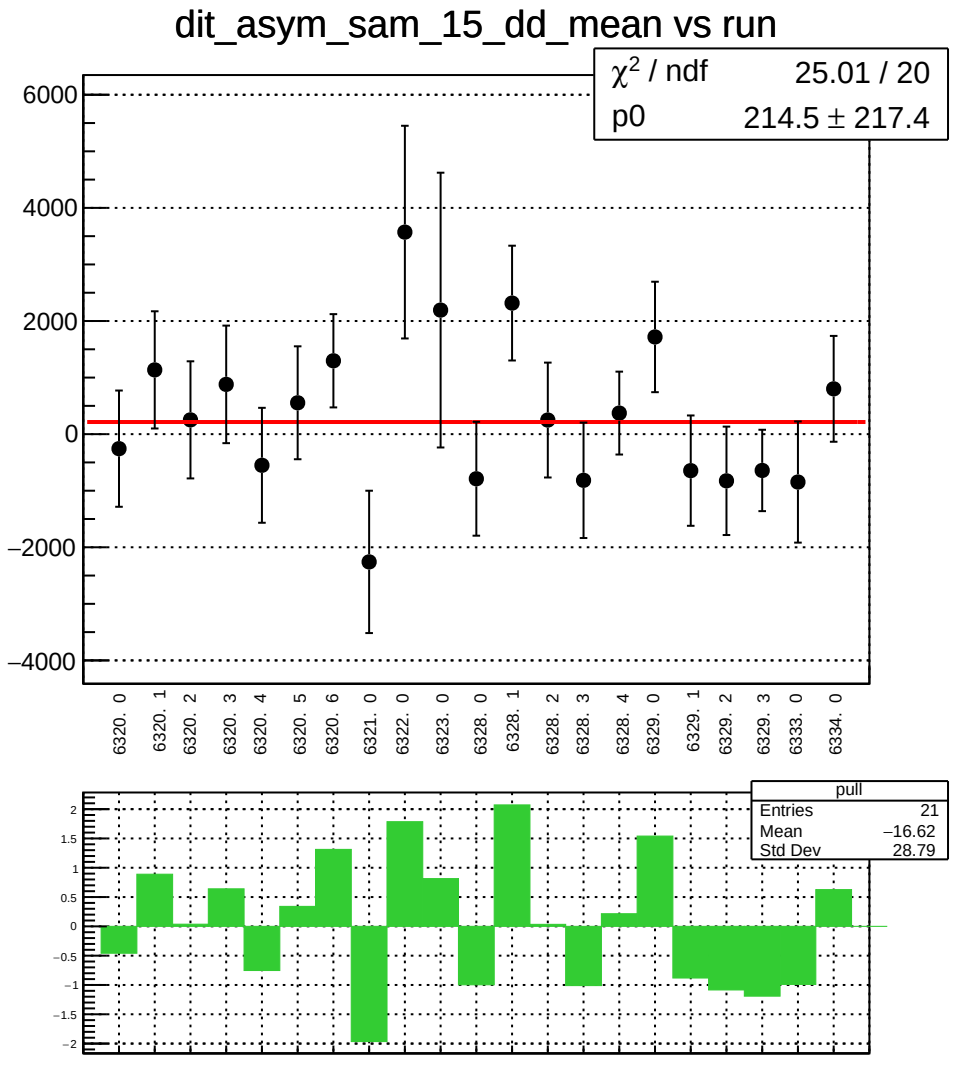

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2.689e+04 / 20
p0 1454 ± 2.422
2800
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

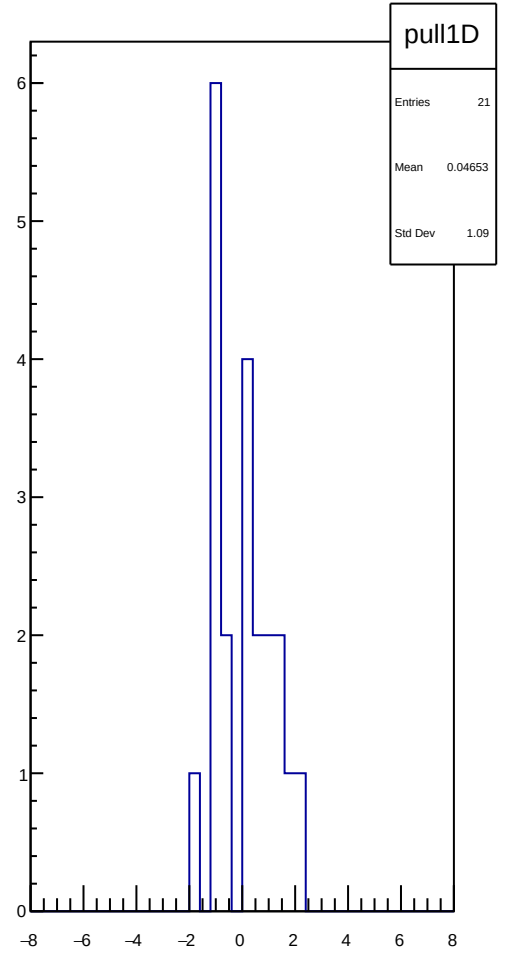

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 25.43 / 20
p0 5182 ± 3551
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

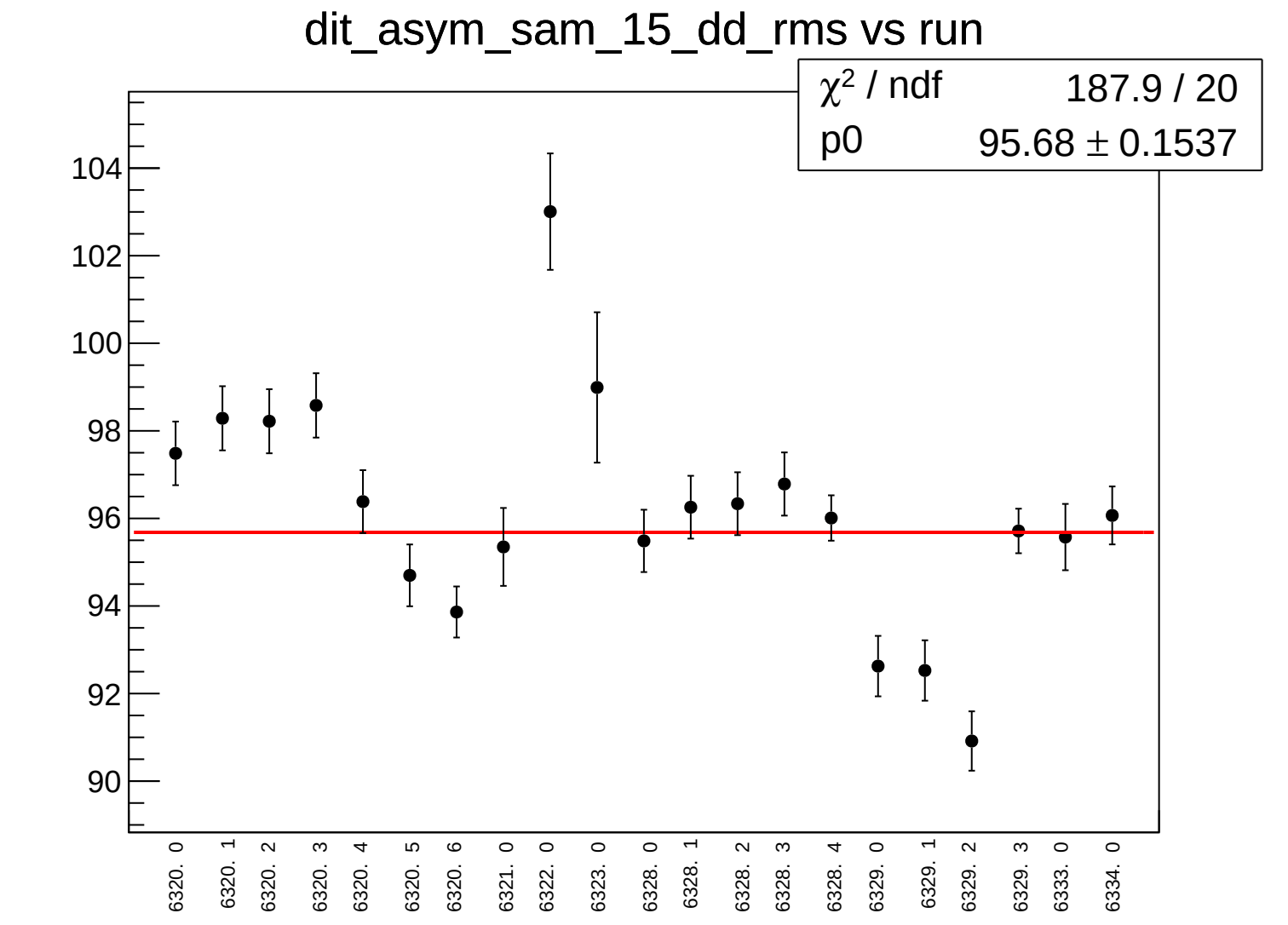

pull
Entries 21
Mean 758.7
Std Dev 748.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

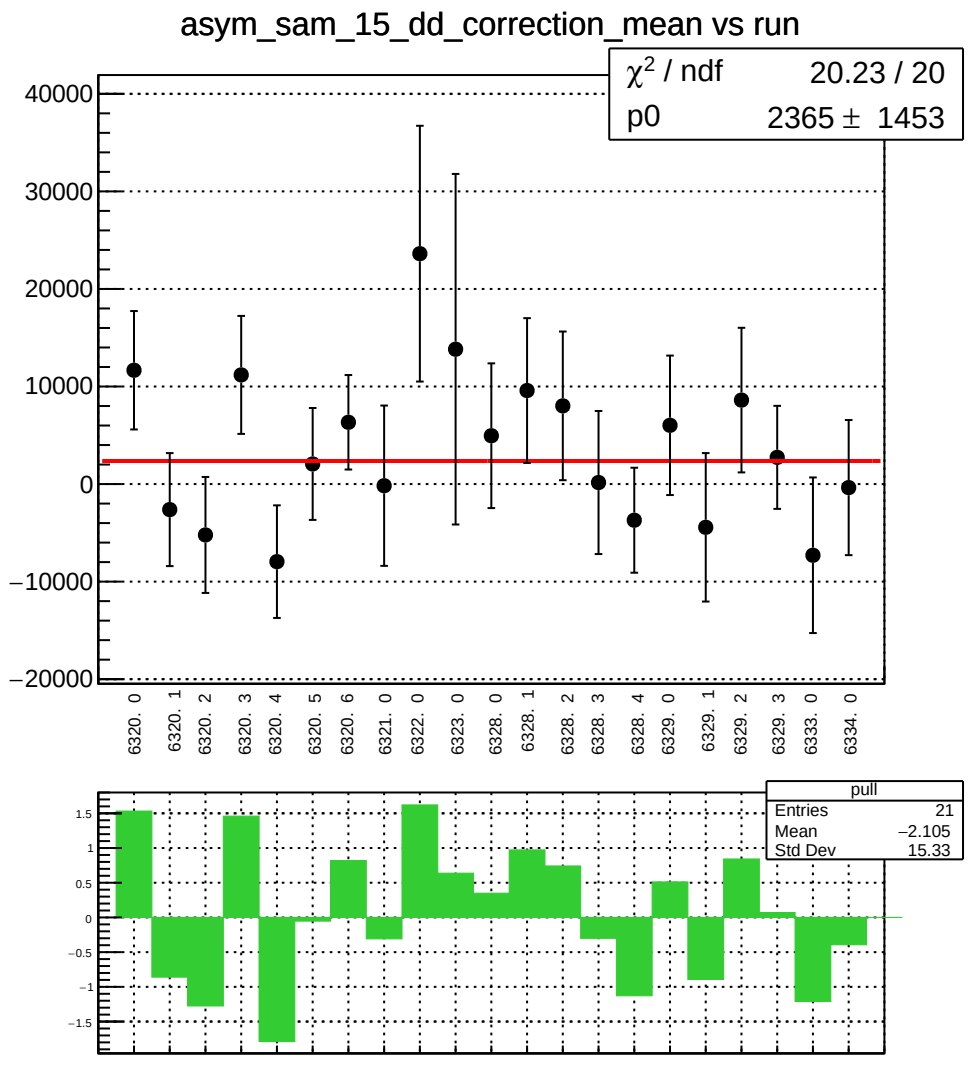

pull1D
Entries 21
Mean −0.001336
Std Dev 1.1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

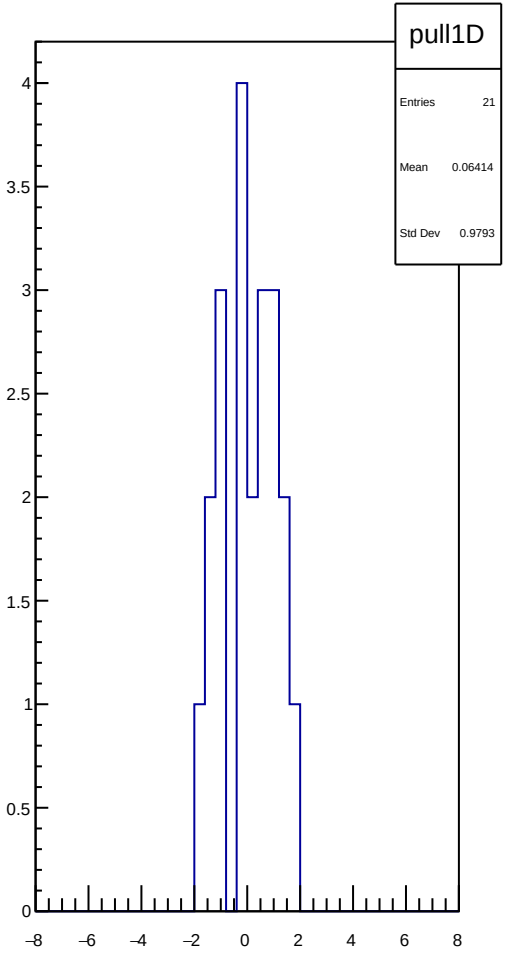

asym_sam_48_avg_rms vs run
χ² / ndf 2.413e+04 / 20
p0 1513 ± 2.511
2800
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

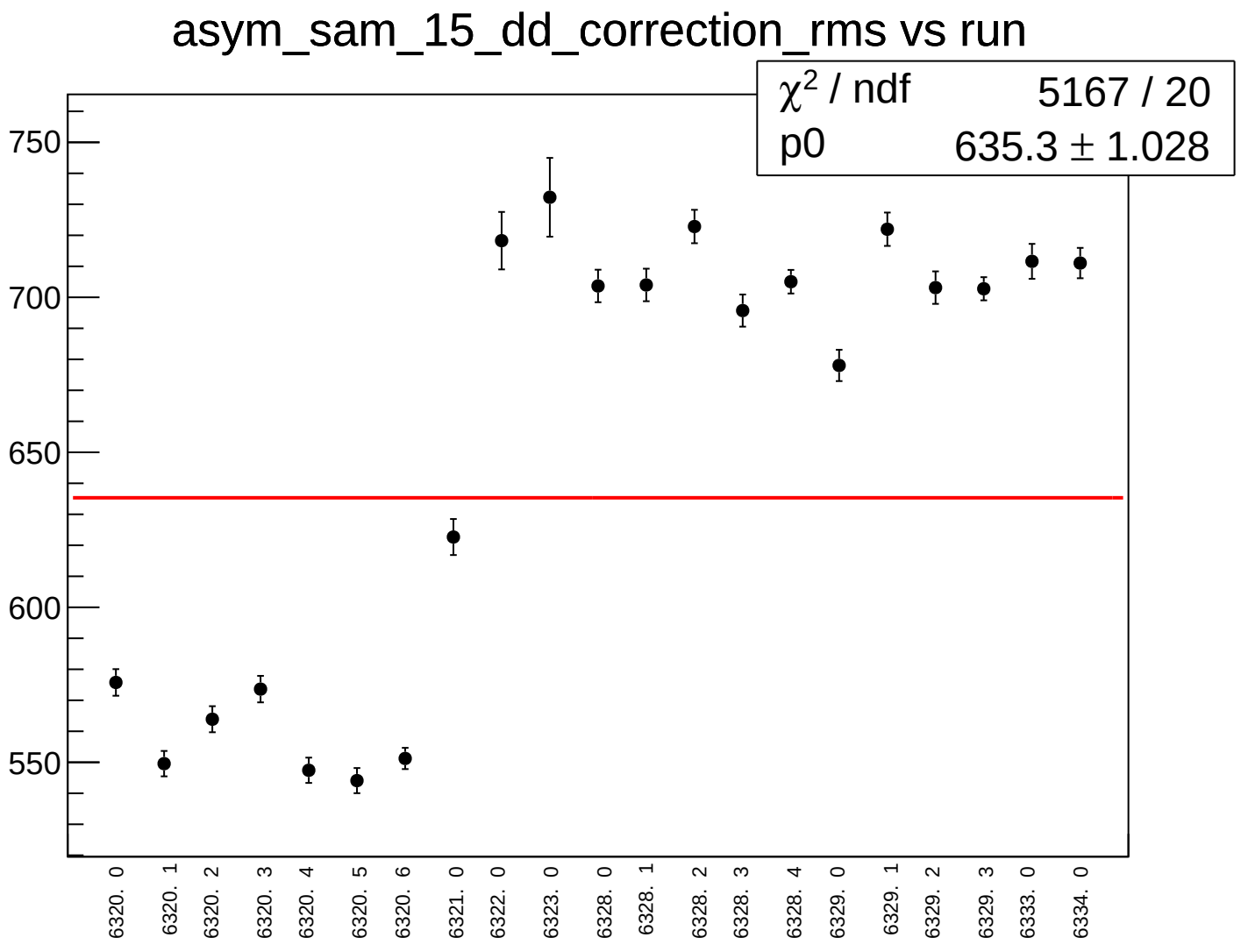

dit_asym_sam_15_dd_mean vs run
χ² / ndf 25.01 / 20
p0 214.5 ± 217.4
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16.62
Std Dev 28.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

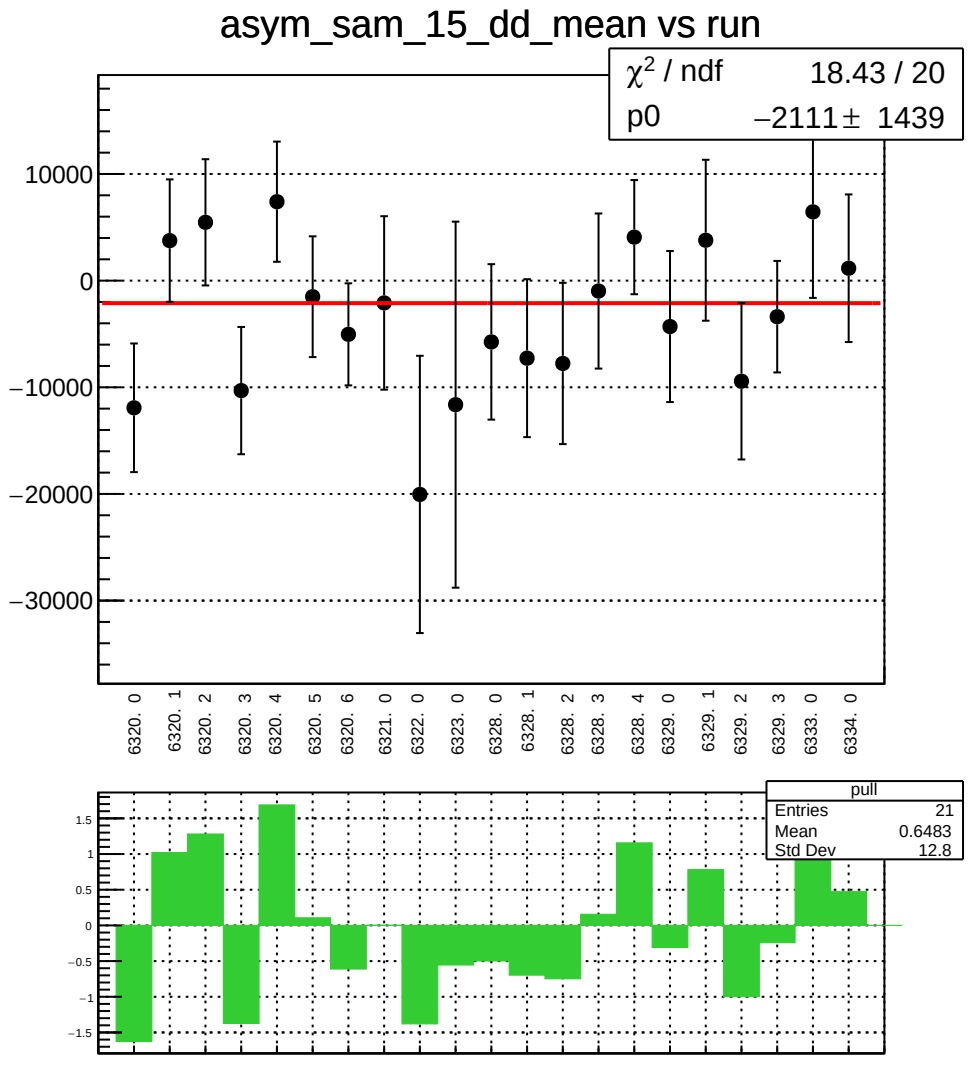

pull1D
Entries 21
Mean 0.04653
Std Dev 1.09
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

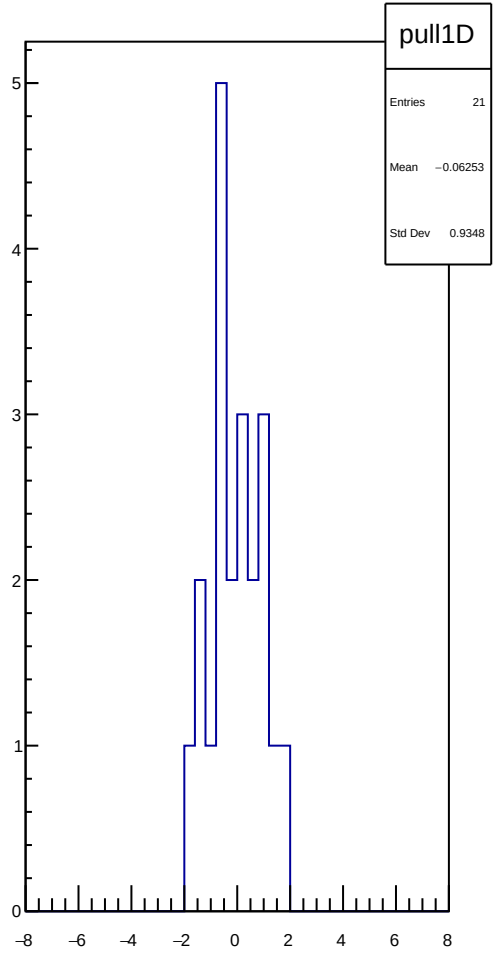

dit_asym_sam_15_dd_rms vs run
χ² / ndf 187.9 / 20
p0 95.68 ± 0.1537
104
102
100
98
96
94
92
90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

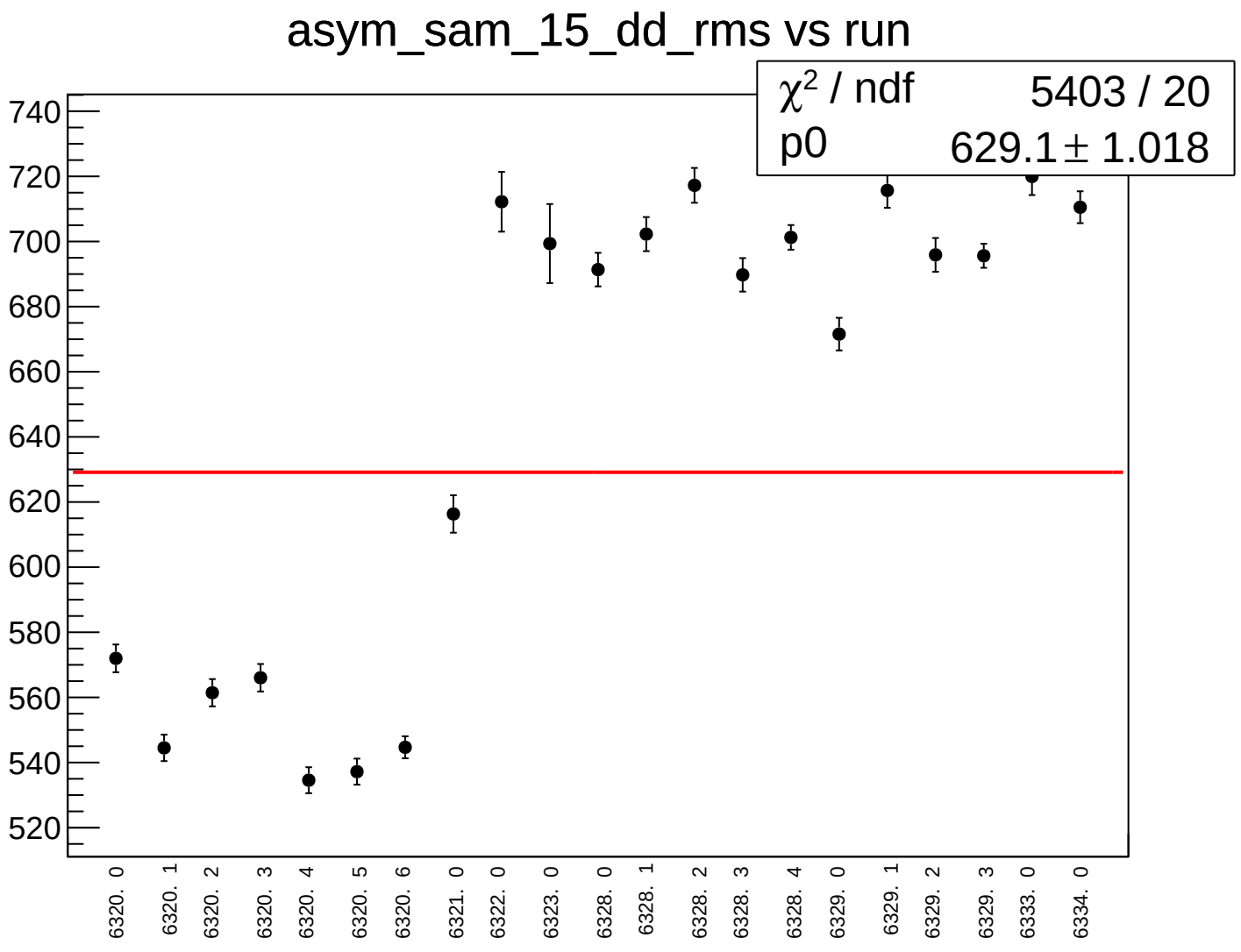

asym_sam_15_dd_correction_mean vs run
χ² / ndf 20.23 / 20
p0 2365 ± 1453
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.105
Std Dev 15.33
1.5
1
0.5
0
−0.5
−1
−1.5

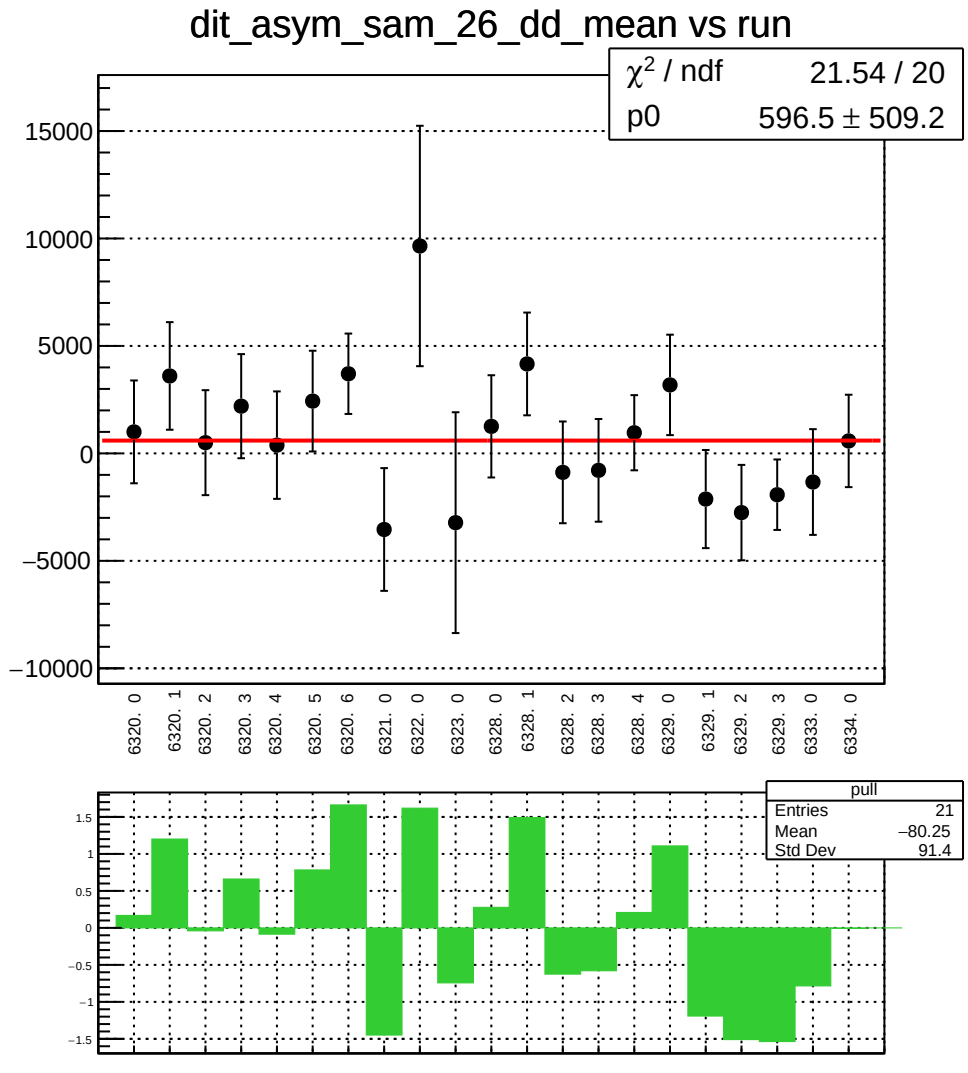

pull1D
Entries 21
Mean 0.06414
Std Dev 0.9793
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

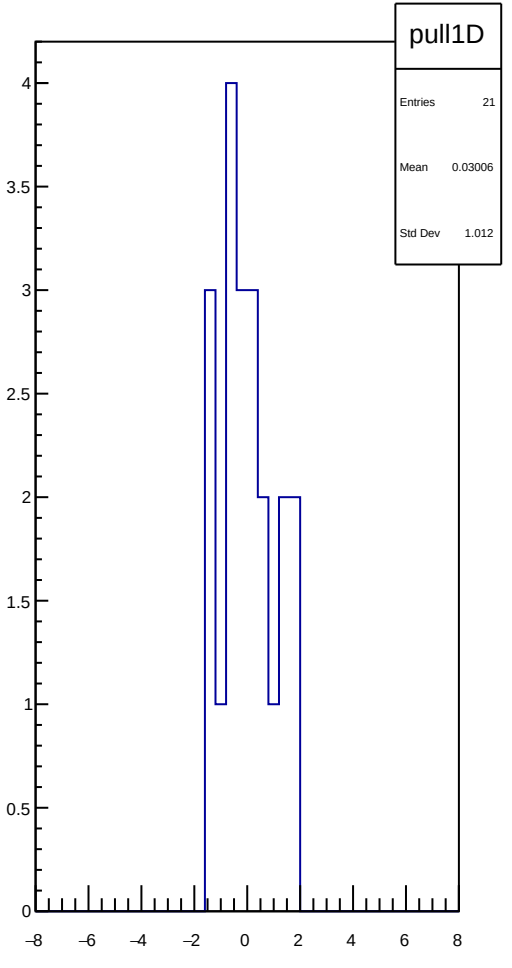

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5167 / 20
p0 635.3 ± 1.028
750
700
650
600
550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

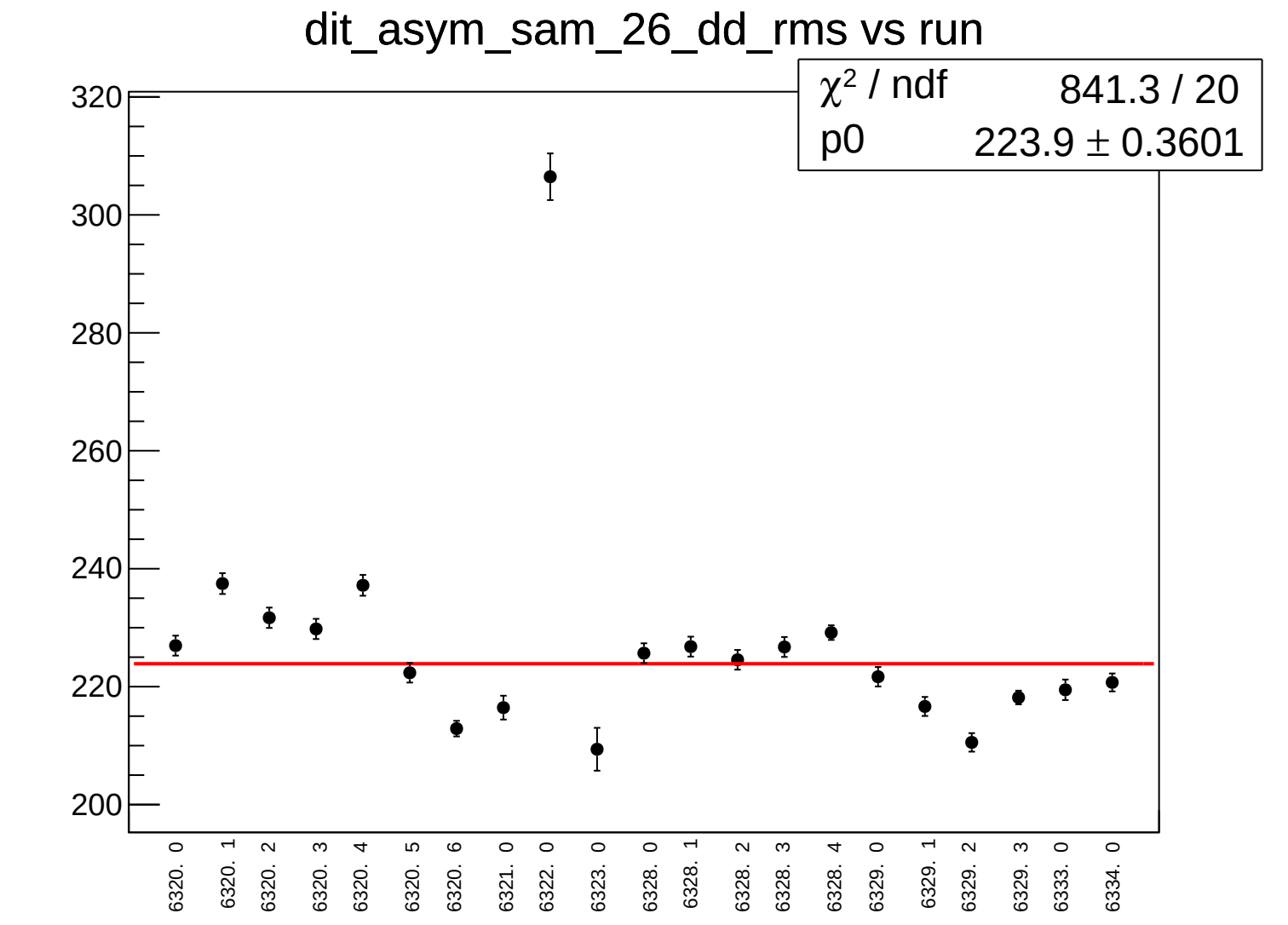

asym_sam_15_dd_mean vs run
χ² / ndf 18.43 / 20
p0 −2111 ± 1439
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.6483
Std Dev 12.8
1.5
1
0.5
0
−0.5
−1
−1.5

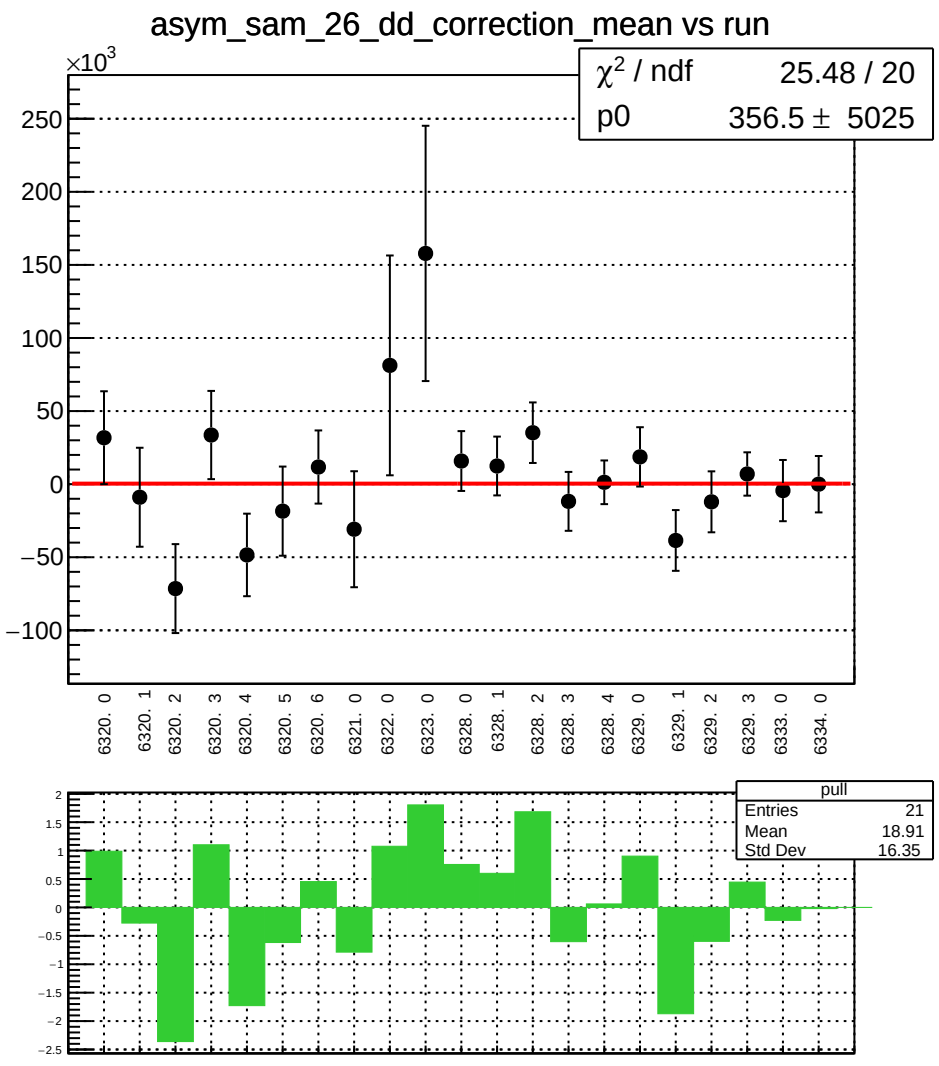

pull1D
Entries 21
Mean −0.06253
Std Dev 0.9348
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

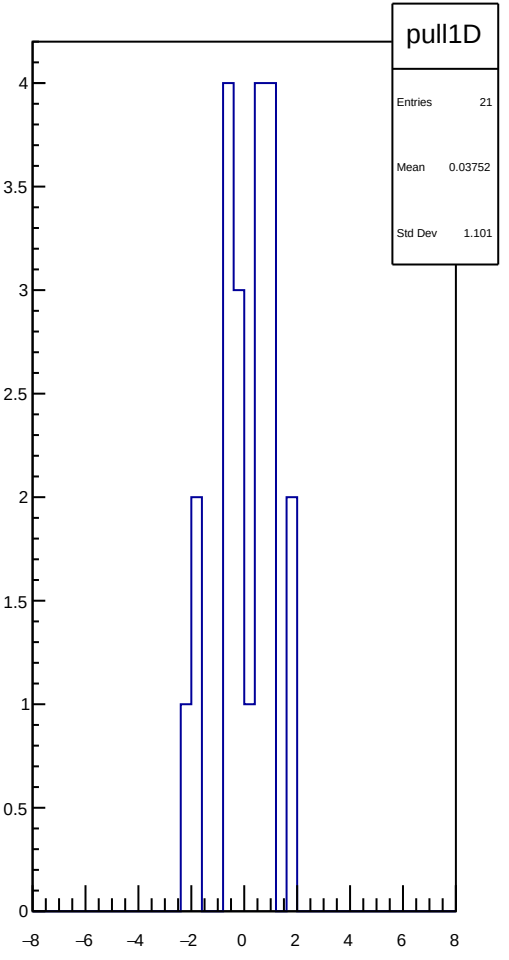

asym_sam_15_dd_rms vs run
χ^2 / ndf 5403 / 20
p0 629.1 ± 1.018
740
720
700
680
660
640
620
600
580
560
540
520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

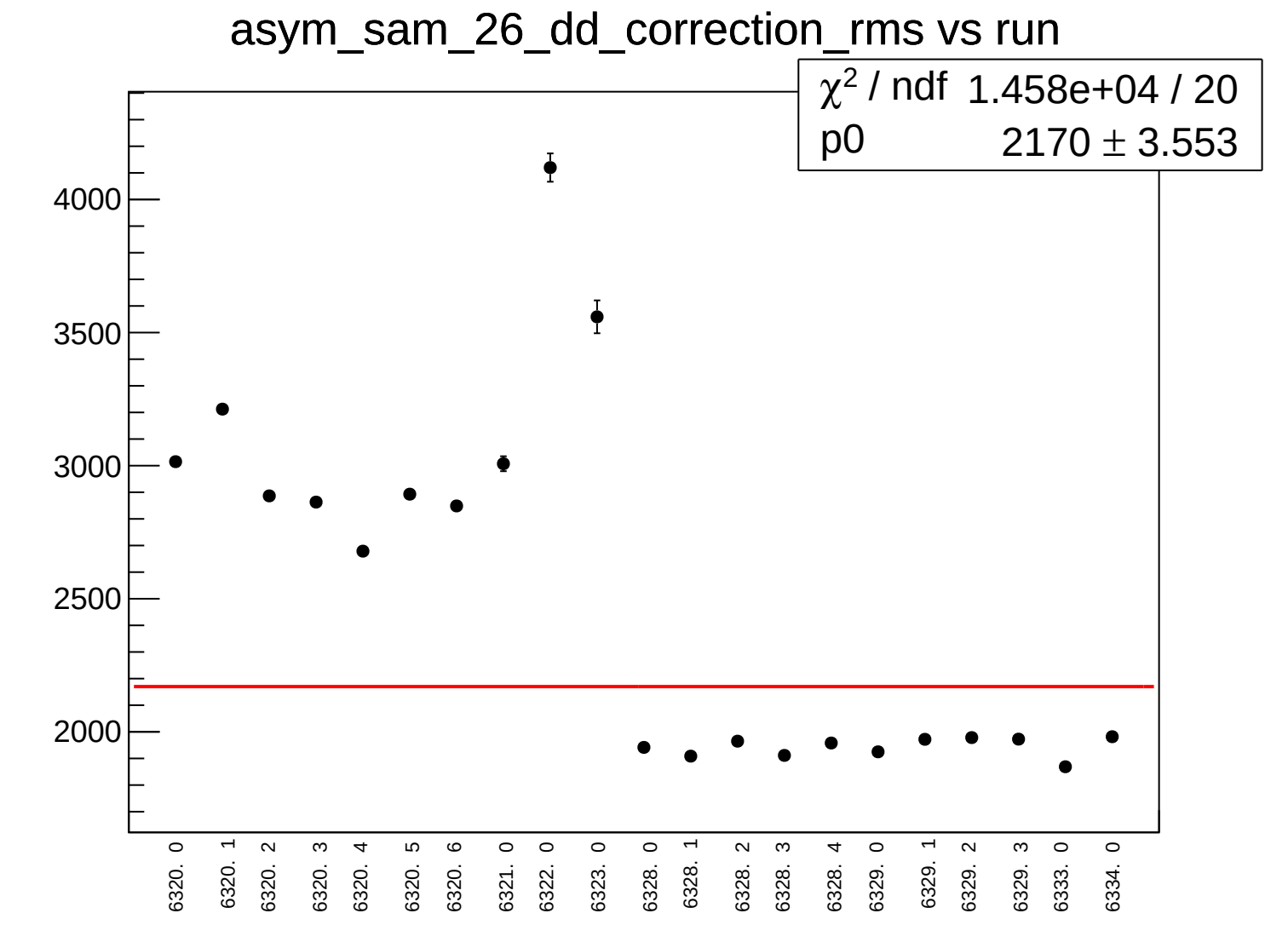

dit_asym_sam_26_dd_mean vs run
χ² / ndf 21.54 / 20
p0 596.5 ± 509.2
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −80.25
Std Dev 91.4
1.5
1
0.5
0
−0.5
−1
−1.5

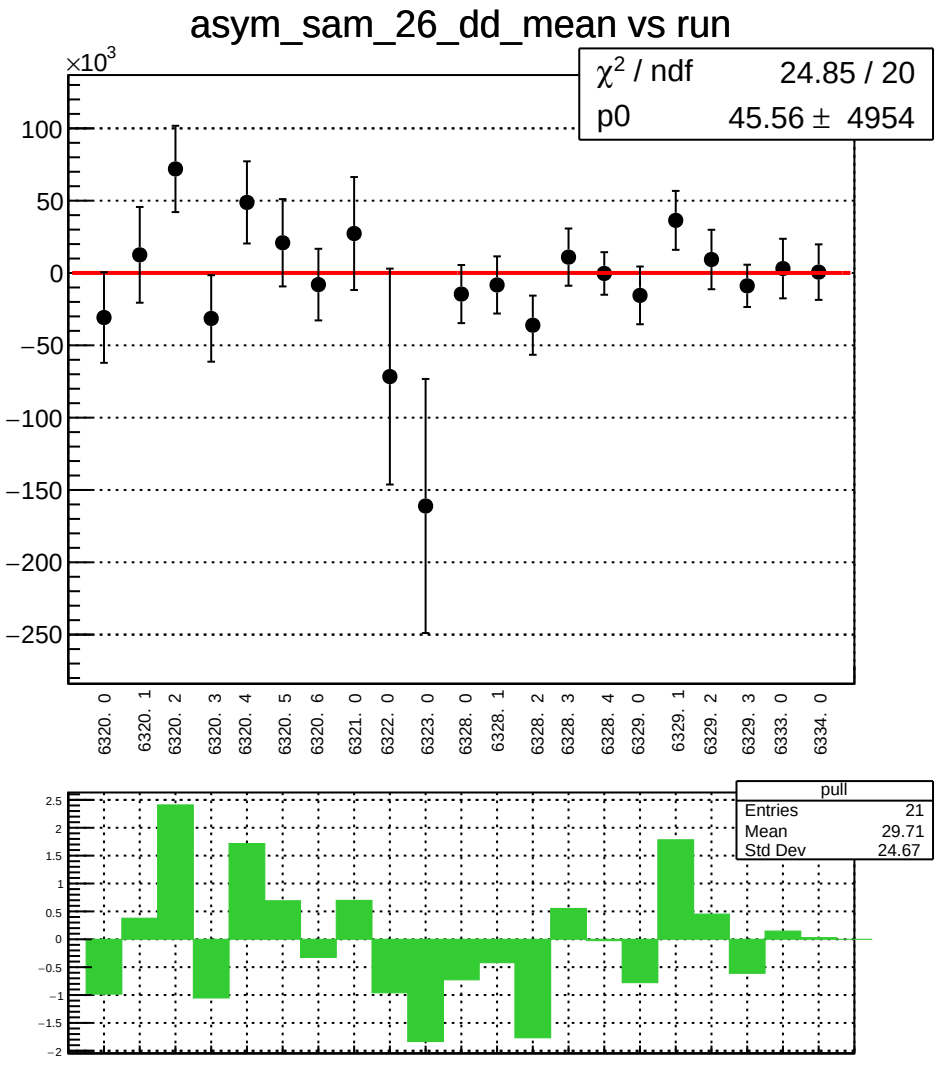

pull1D
Entries 21
Mean 0.03006
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

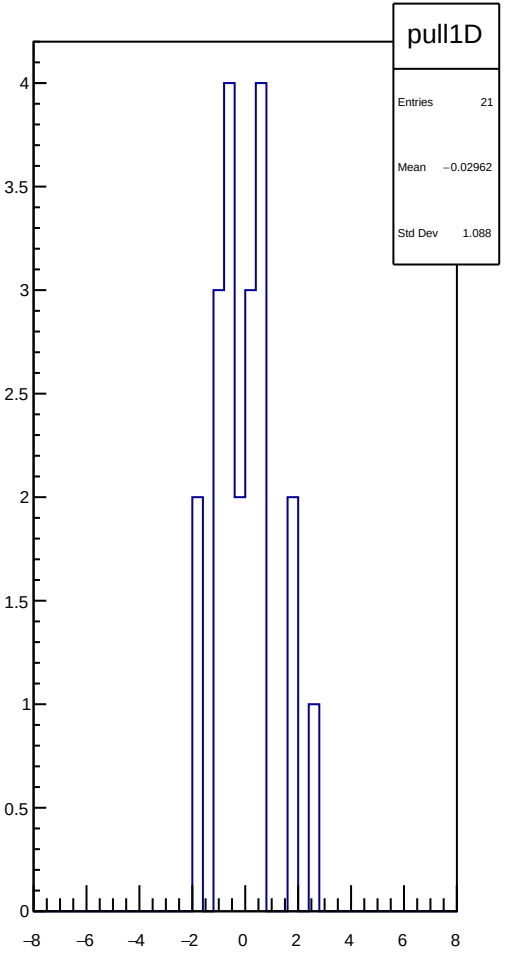

dit_asym_sam_26_dd_rms vs run
χ² / ndf 841.3 / 20
p0 223.9 ± 0.3601
320
300
280
260
240
220
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

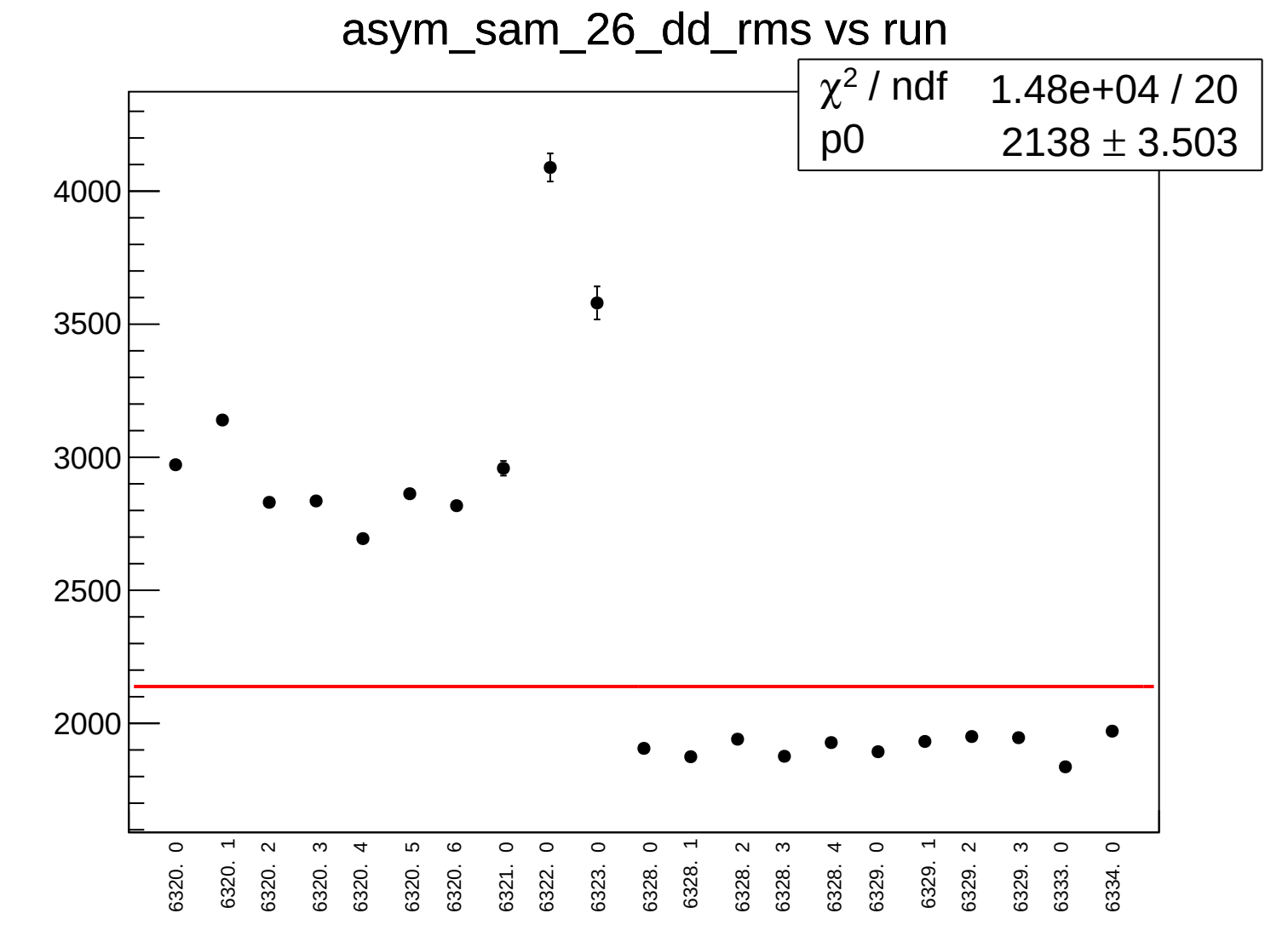

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 25.48 / 20
p0 356.5 ± 5025
250
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 18.91
Std Dev 16.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

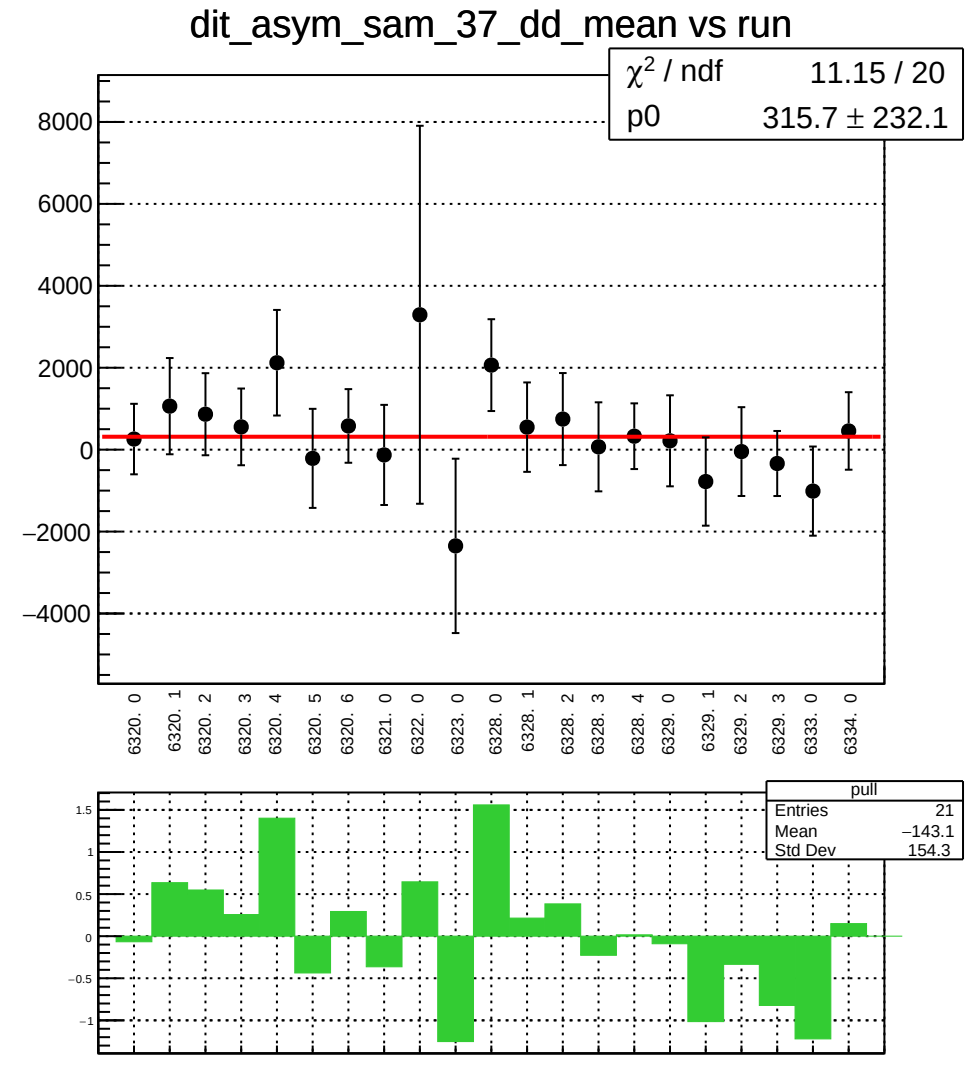

pull1D
Entries 21
Mean 0.03752
Std Dev 1.101
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

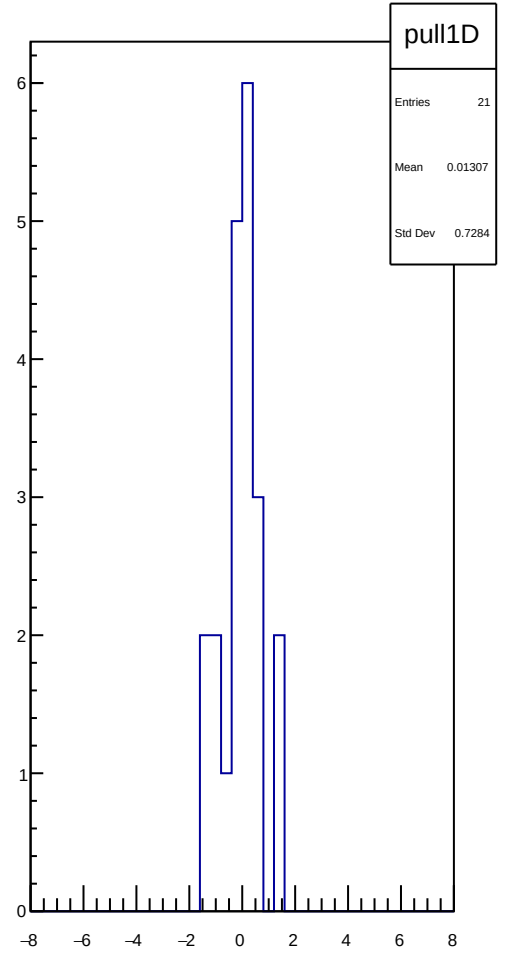

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.458e+04 / 20
p0 2170 ± 3.553
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

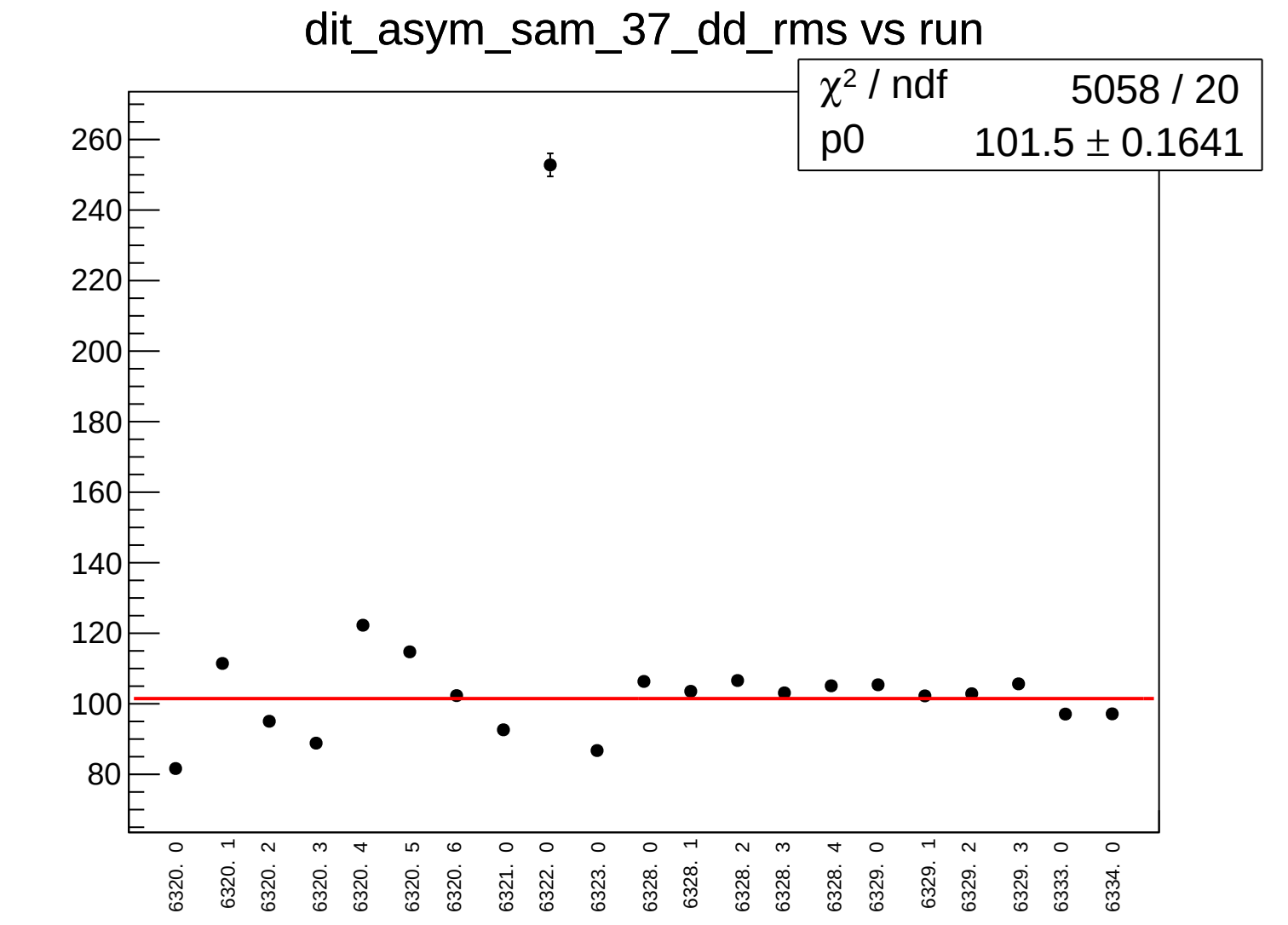

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 24.85 / 20
p0 45.56 ± 4954
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.71
Std Dev 24.67
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

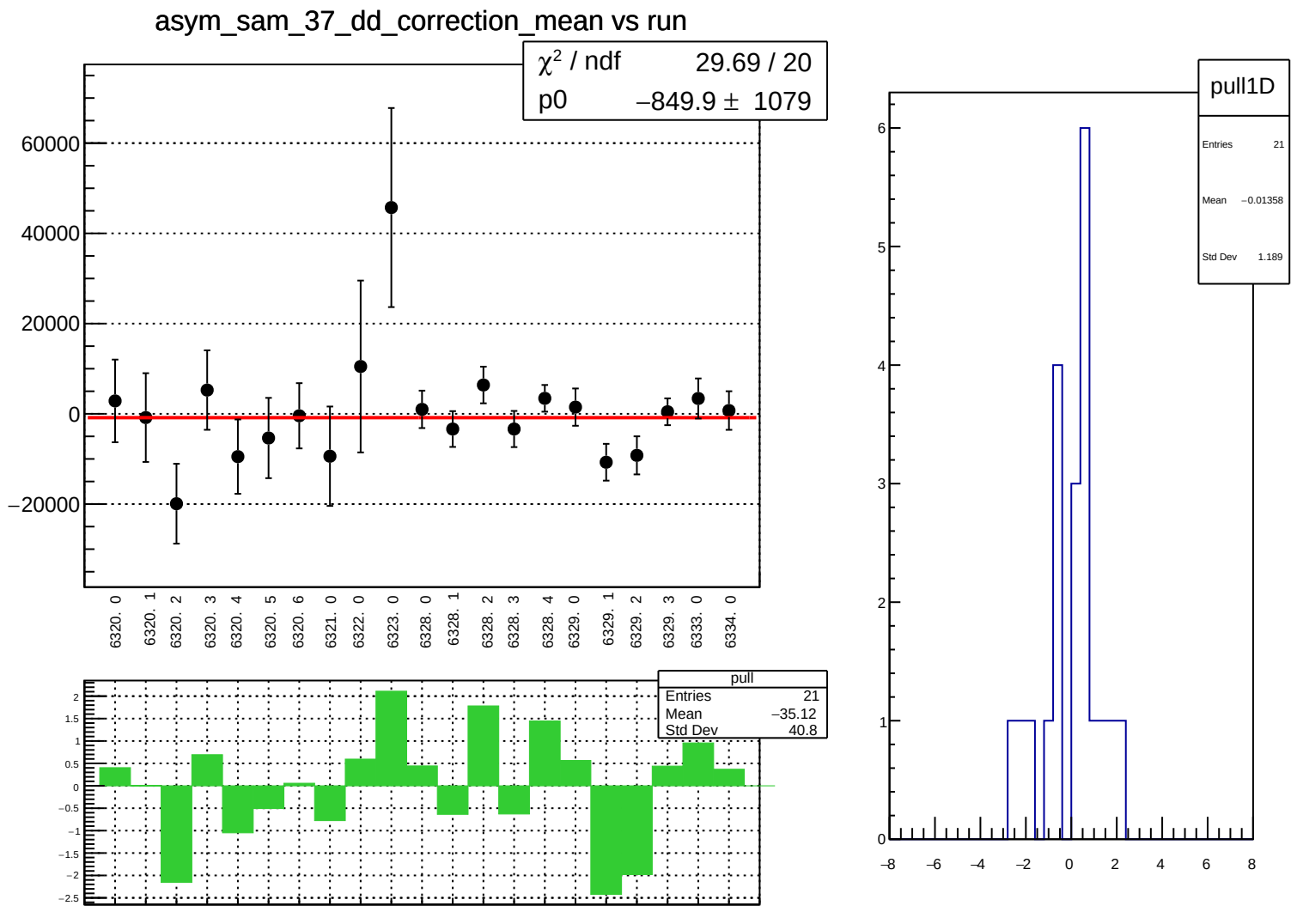

pull1D
Entries 21
Mean −0.02962
Std Dev 1.088
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

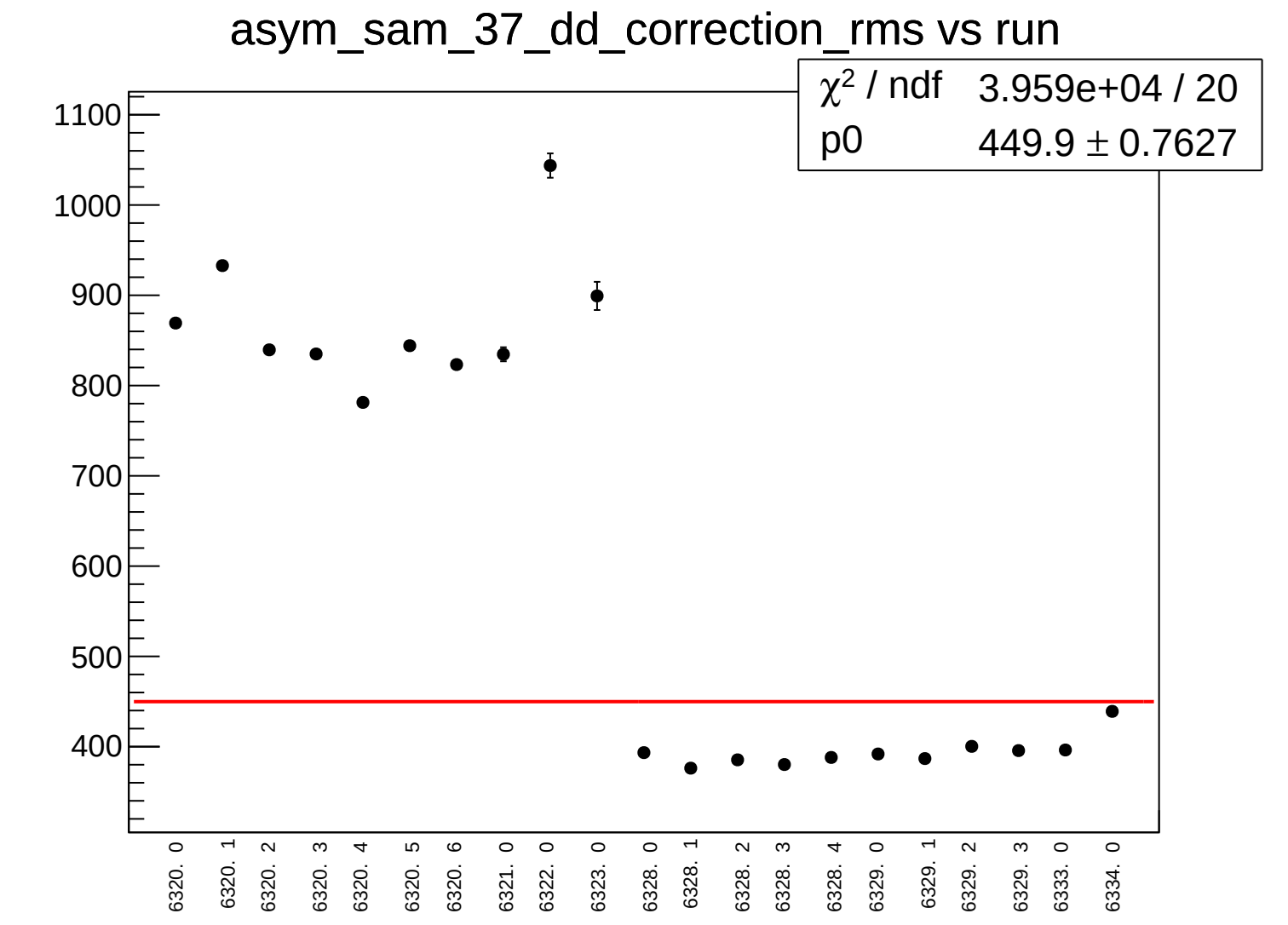

asym_sam_26_dd_rms vs run
χ² / ndf 1.48e+04 / 20
p0 2138 ± 3.503
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

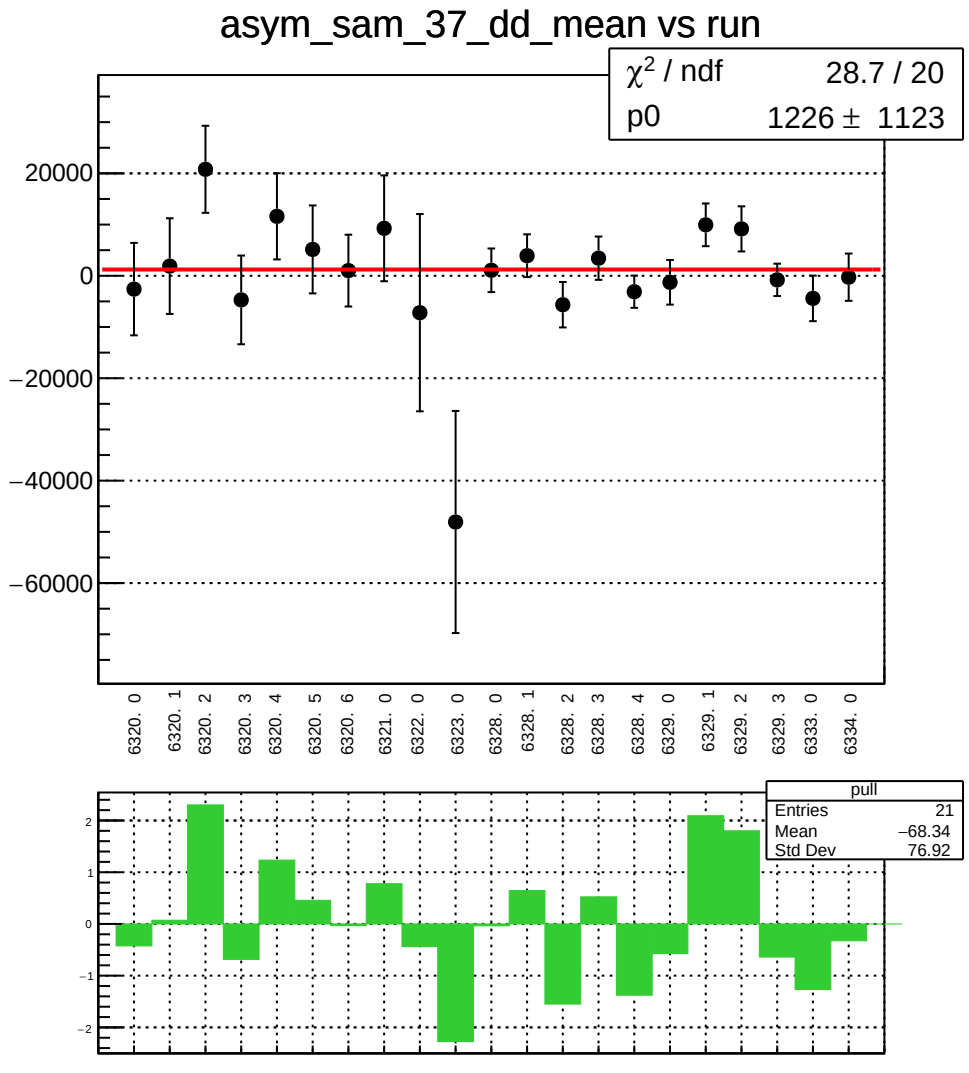

dit_asym_sam_37_dd_mean vs run
χ² / ndf 11.15 / 20
p0 315.7 ± 232.1
8000
6000
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −143.1
Std Dev 154.3
1.5
1
0.5
0
−0.5
−1

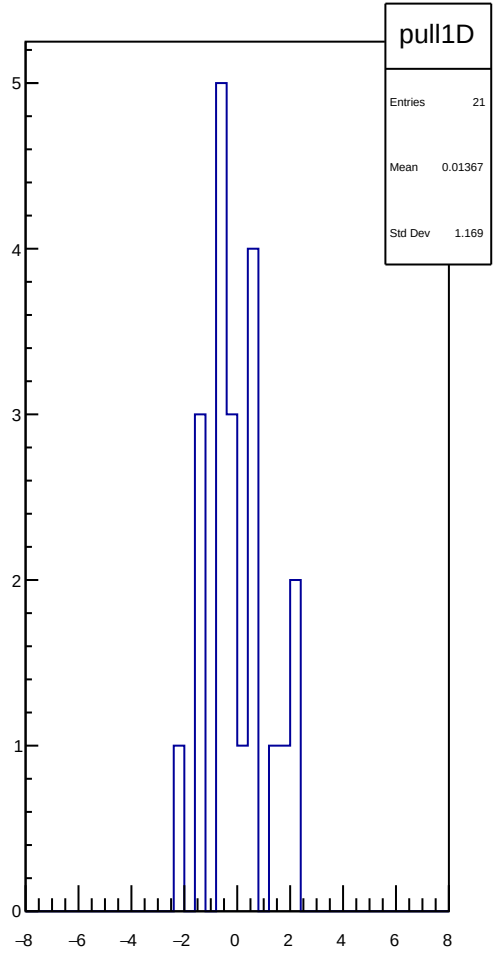

pull1D
Entries 21
Mean 0.01307
Std Dev 0.7284
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

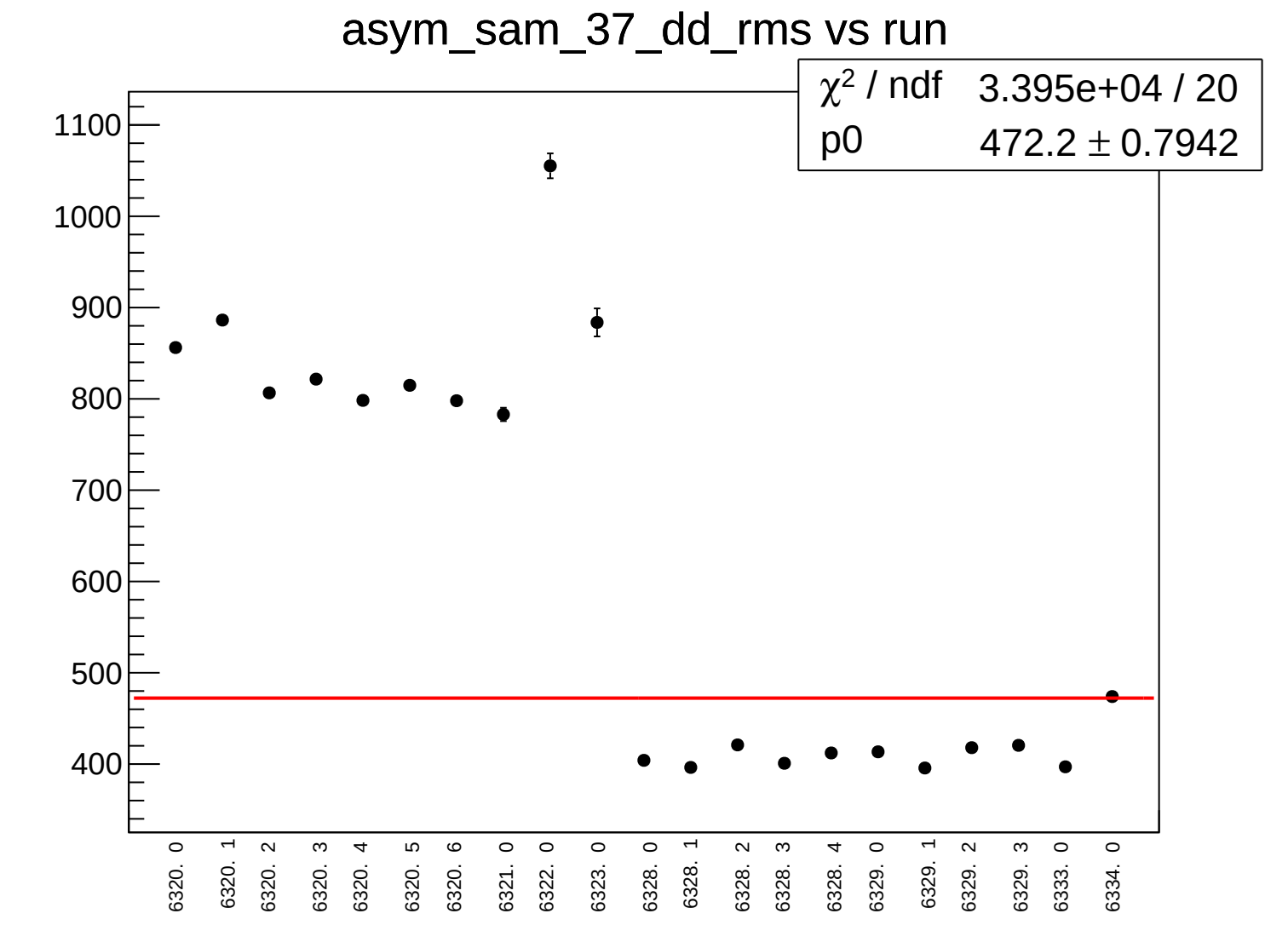

dit_asym_sam_37_dd_rms vs run
χ² / ndf 5058 / 20
p0 101.5 ± 0.1641
260
240
220
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

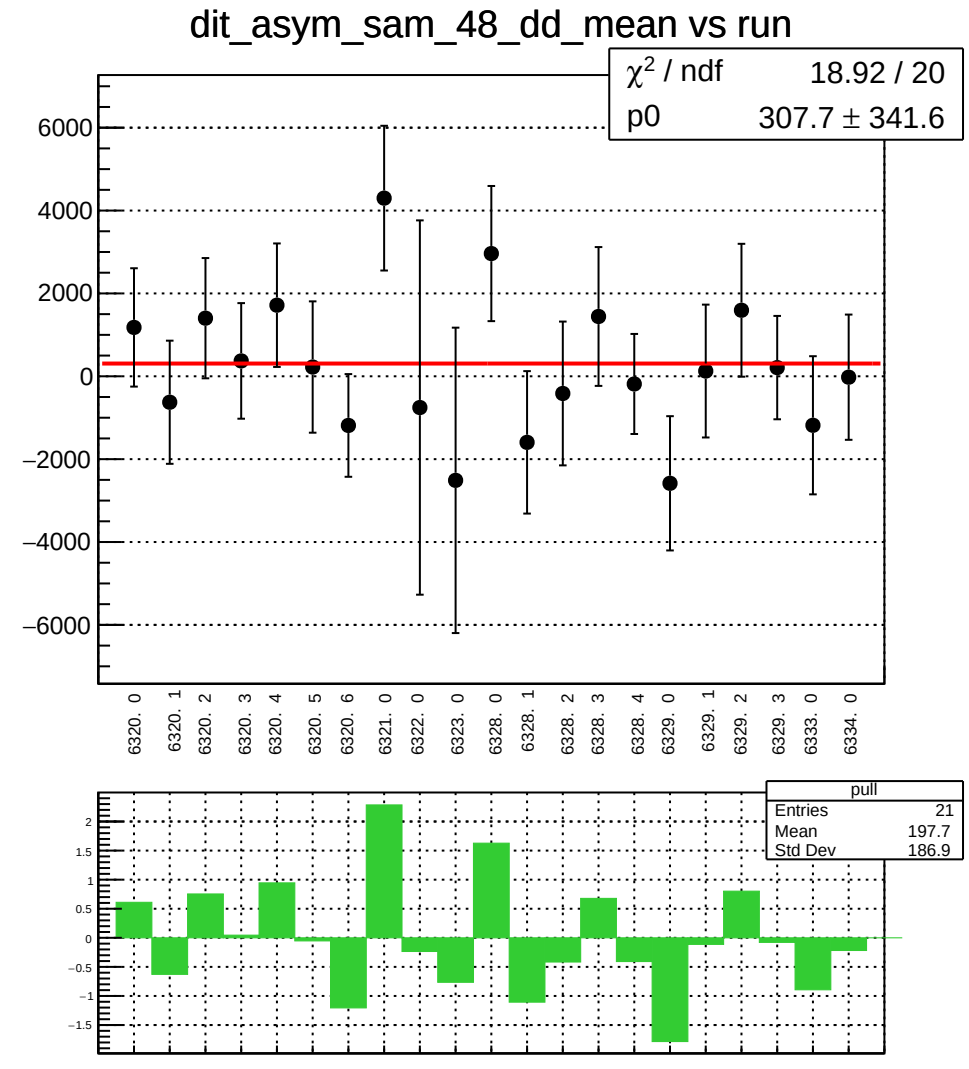

asym_sam_37_dd_correction_mean vs run
χ² / ndf 29.69 / 20
p0 −849.9 ± 1079
60000
40000
20000
0
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −35.12
Std Dev 40.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.01358
Std Dev 1.189
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

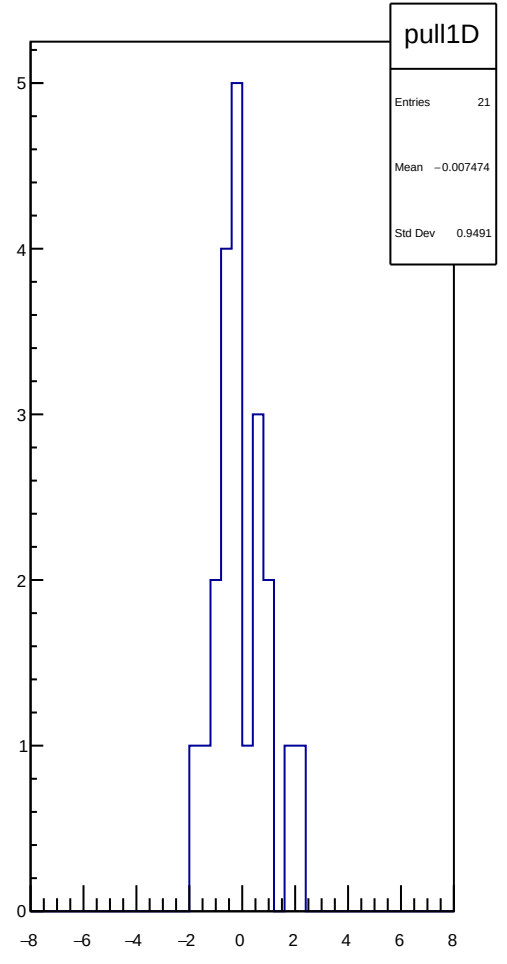

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3.959e+04 / 20
p0 449.9 ± 0.7627
1100
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

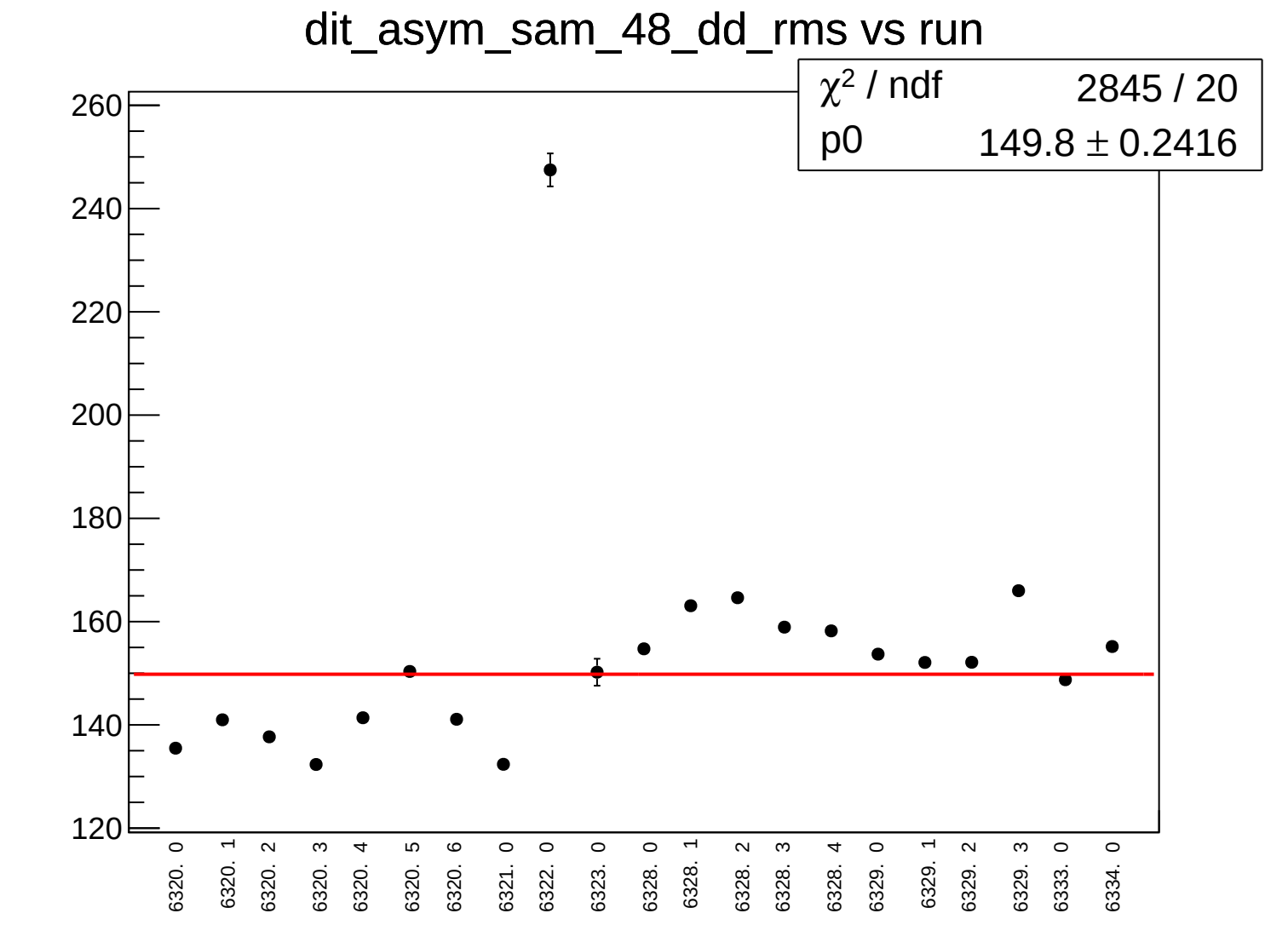

asym_sam_37_dd_mean vs run
χ² / ndf 28.7 / 20
p0 1226 ± 1123
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −68.34
Std Dev 76.92
2
1
0
−1
−2

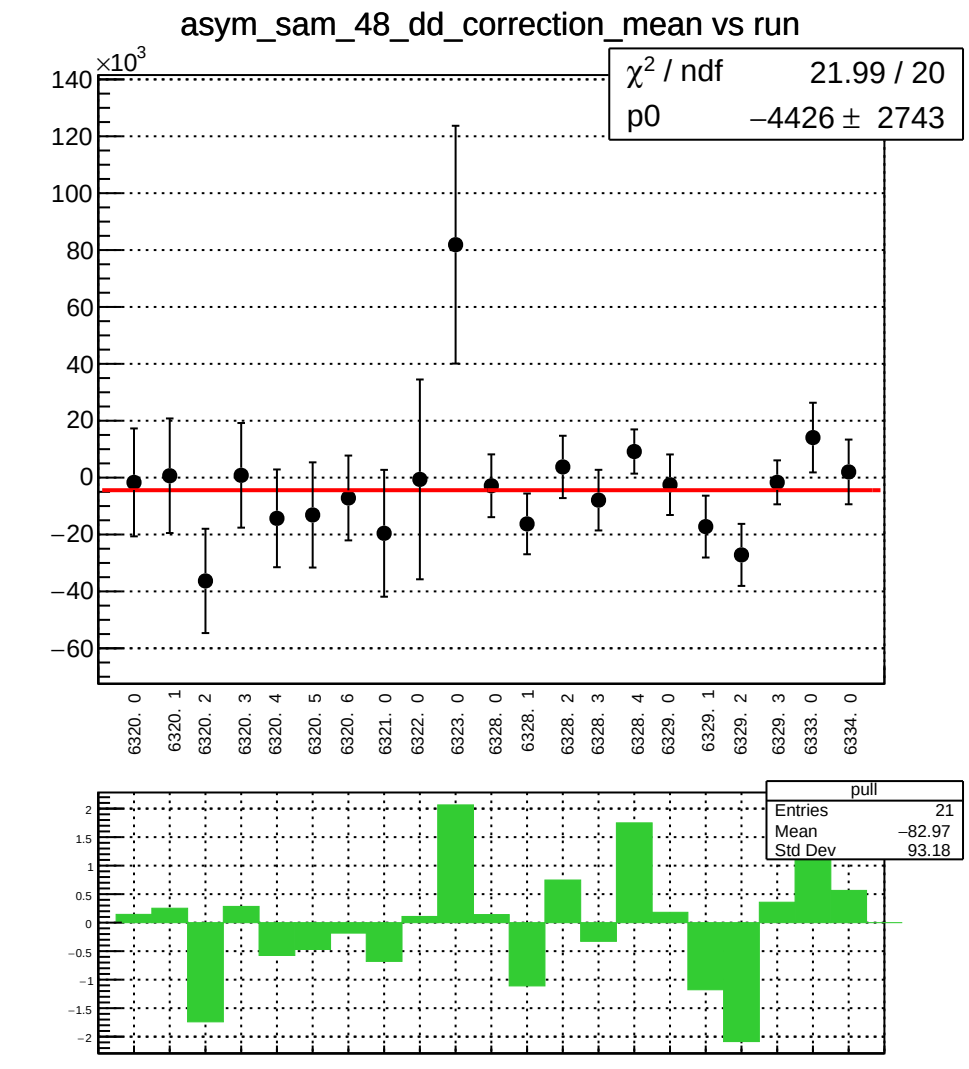

pull1D
Entries 21
Mean 0.01367
Std Dev 1.169
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

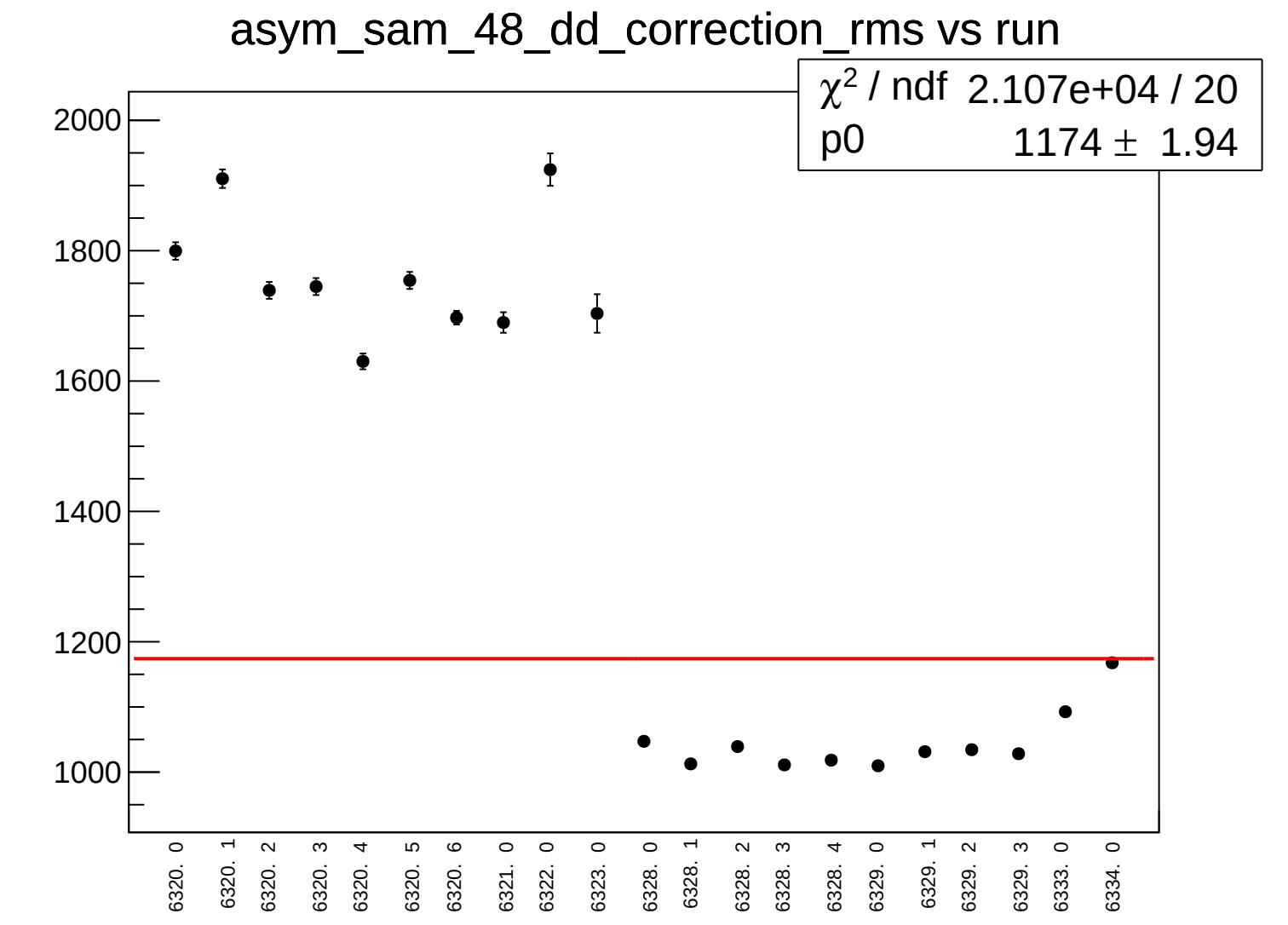

asym_sam_37_dd_rms vs run
χ² / ndf 3.395e+04 / 20
p0 472.2 ± 0.7942
1100
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

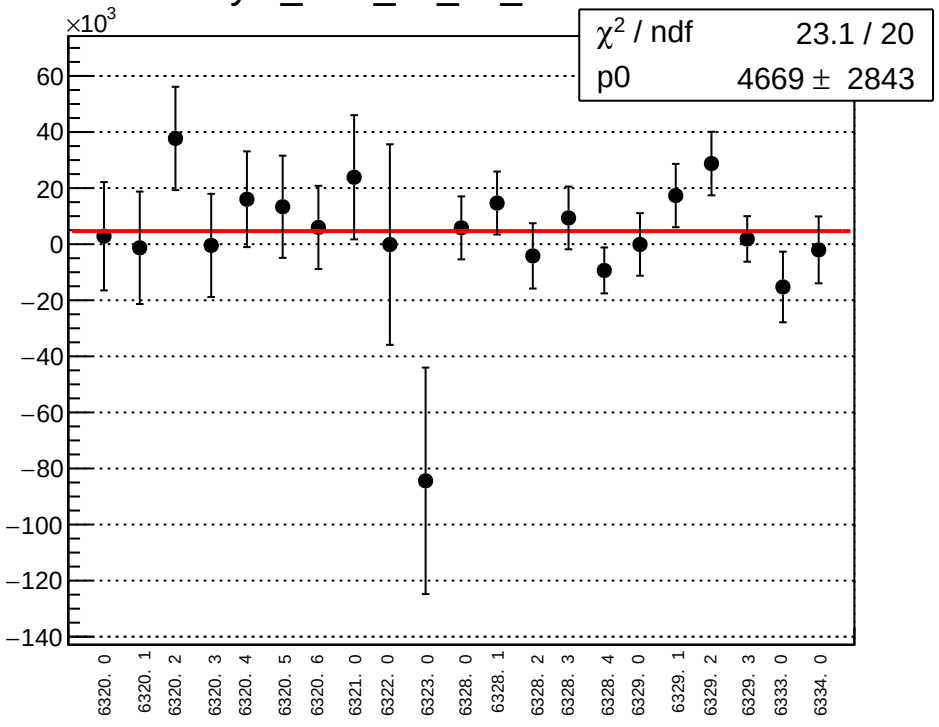

dit_asym_sam_48_dd_mean vs run
χ² / ndf 18.92 / 20
p0 307.7 ± 341.6
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 197.7
Std Dev 186.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

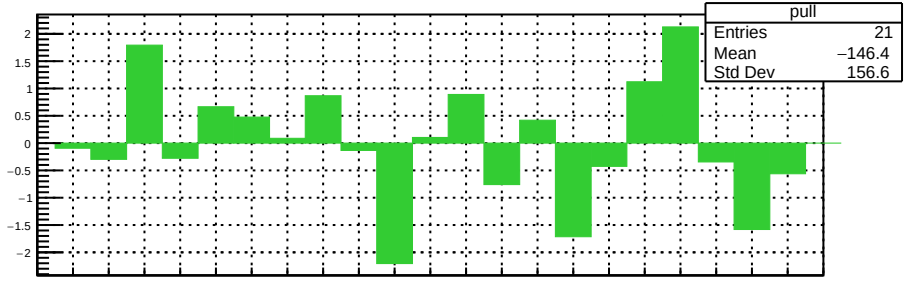

pull1D
Entries 21
Mean −0.007474
Std Dev 0.9491
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

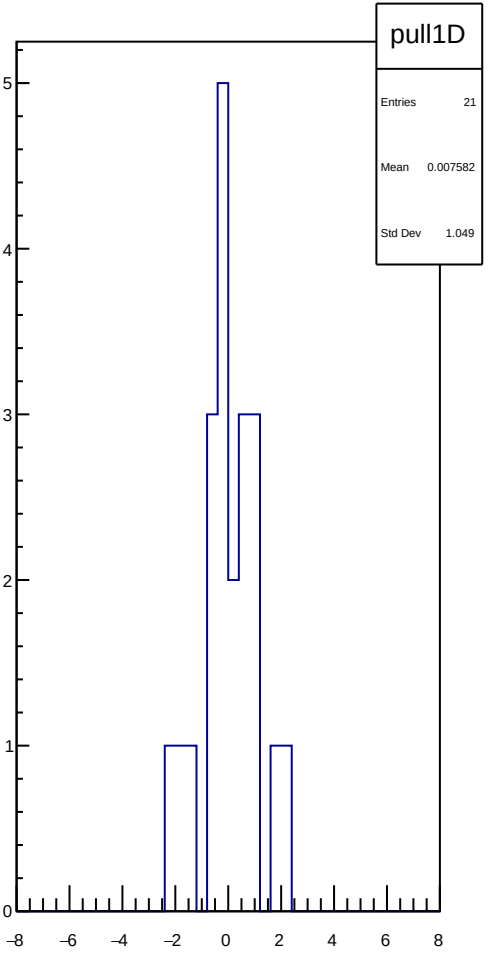

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2845 / 20
p0 149.8 ± 0.2416
260
240
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

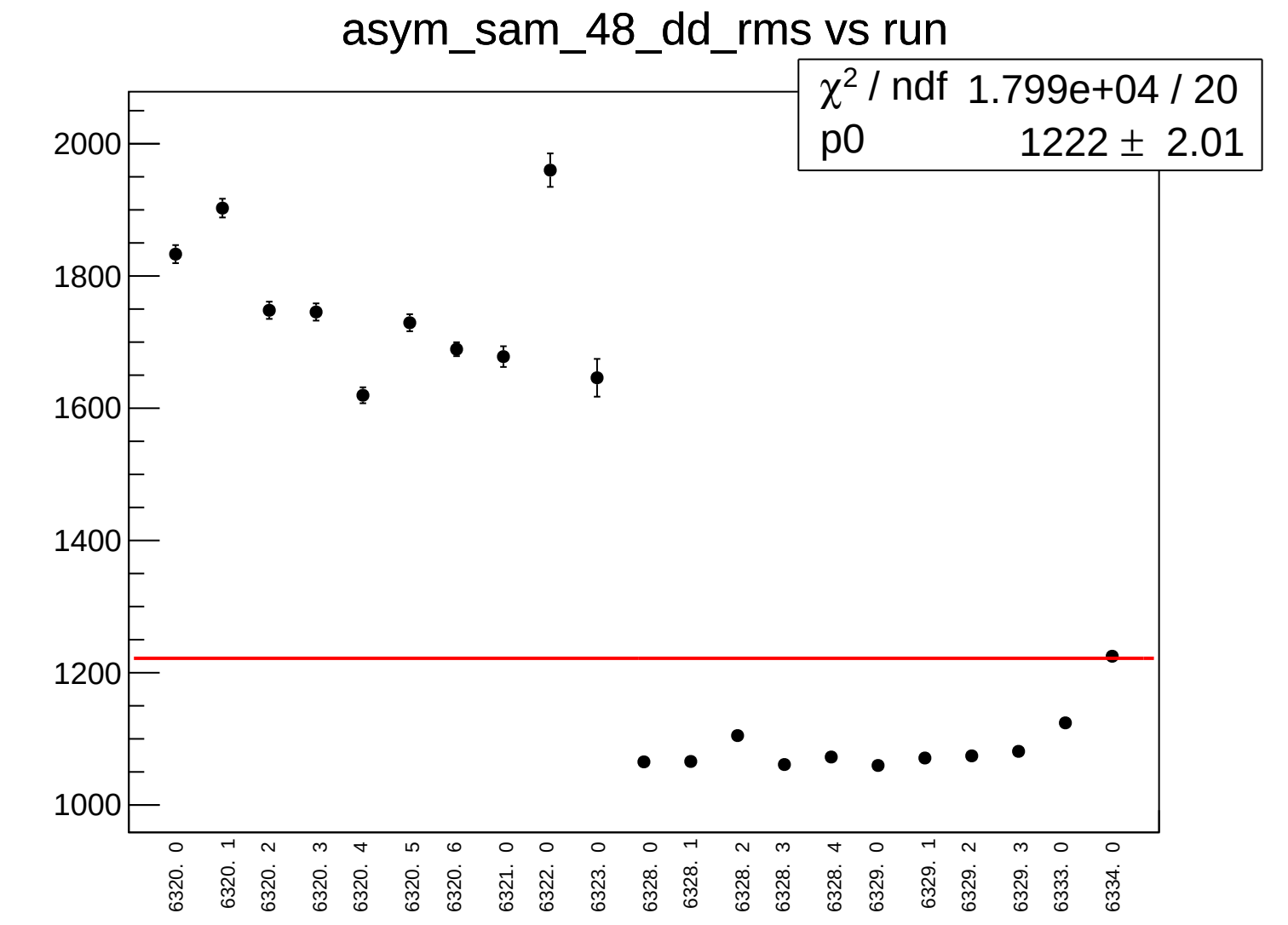

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 21.99 / 20
p0 −4426 ± 2743
140
120
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −82.97
Std Dev 93.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.01134
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

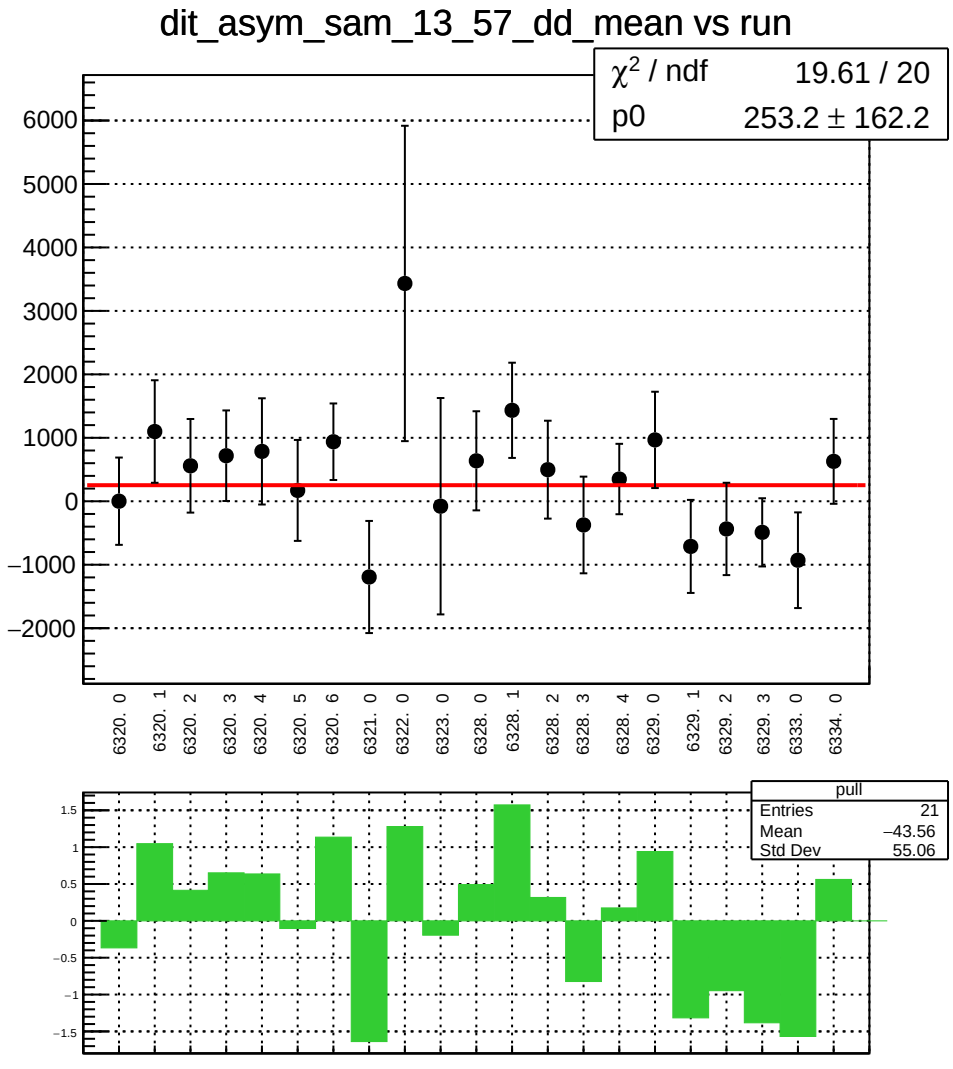

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2.107e+04 / 20
p0 1174 ± 1.94
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

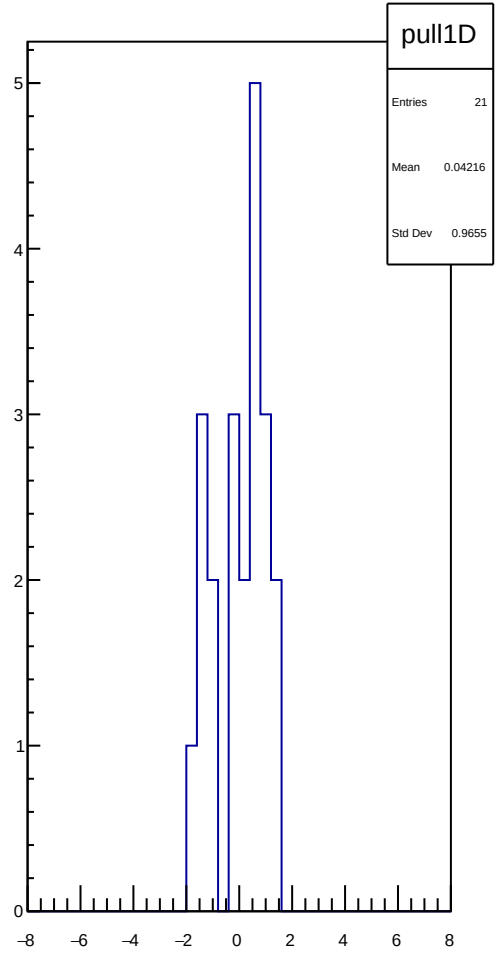

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 23.1 / 20
p0 4669 ± 2843
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

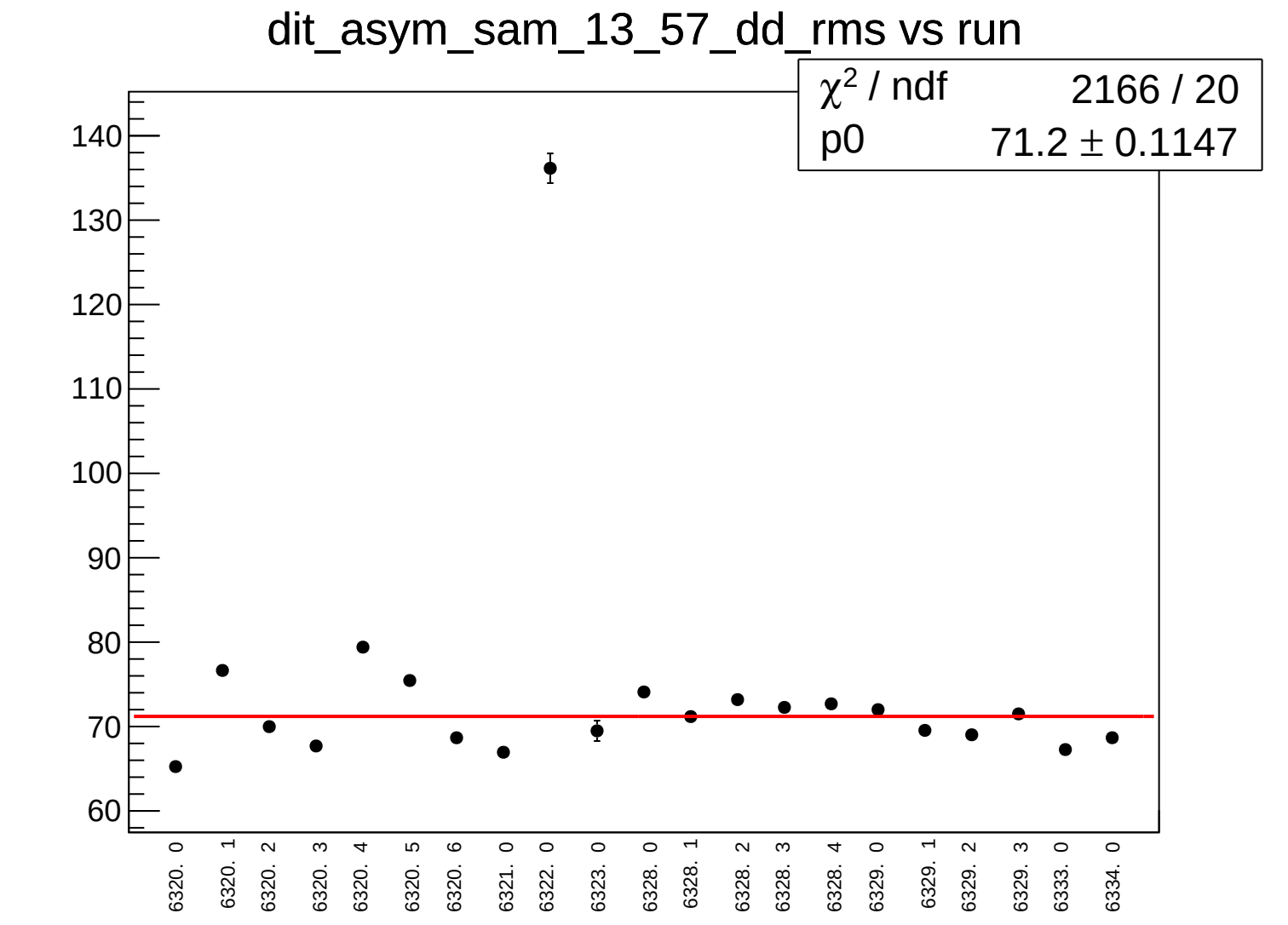

pull
Entries 21
Mean −146.4
Std Dev 156.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

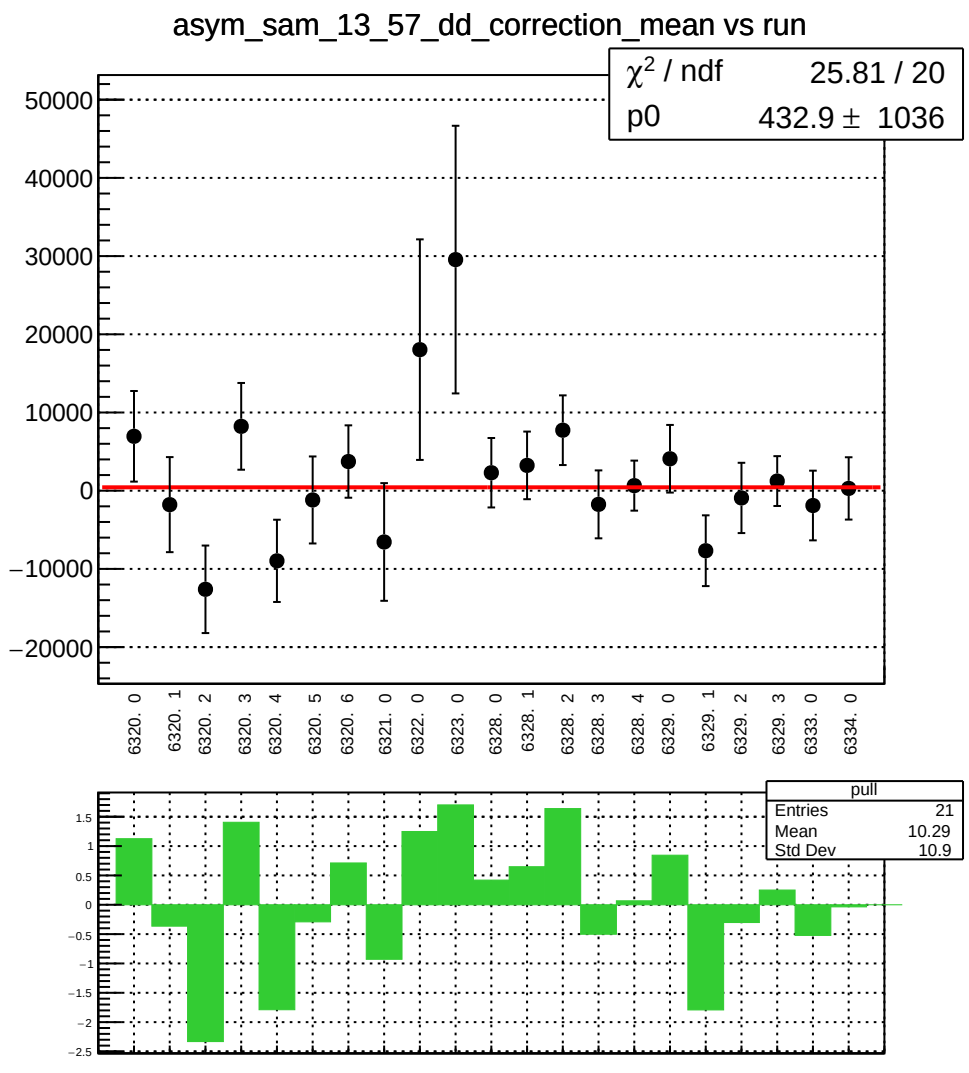

pull1D
Entries 21
Mean 0.007582
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

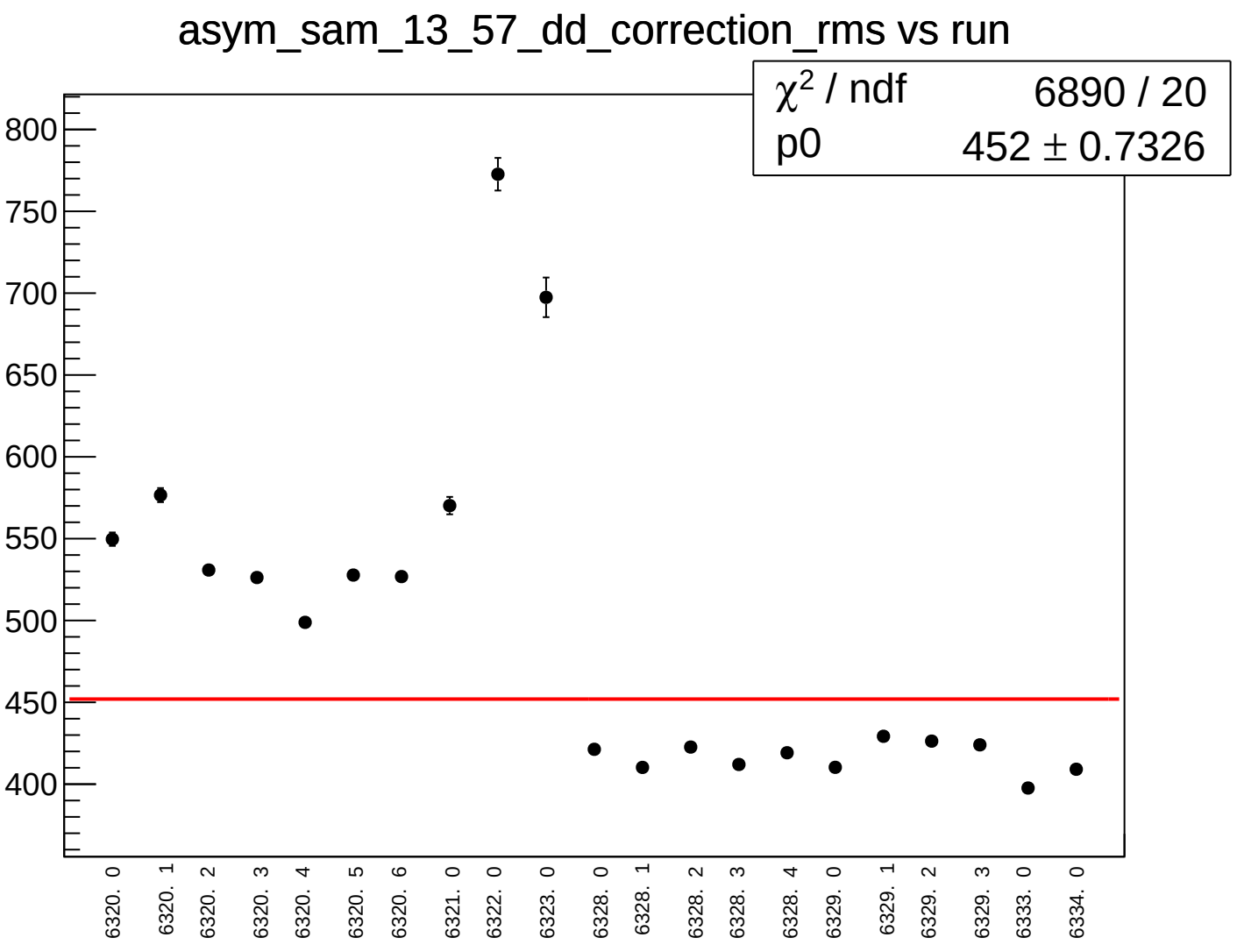

asym_sam_48_dd_rms vs run
χ² / ndf 1.799e+04 / 20
p0 1222 ± 2.01
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

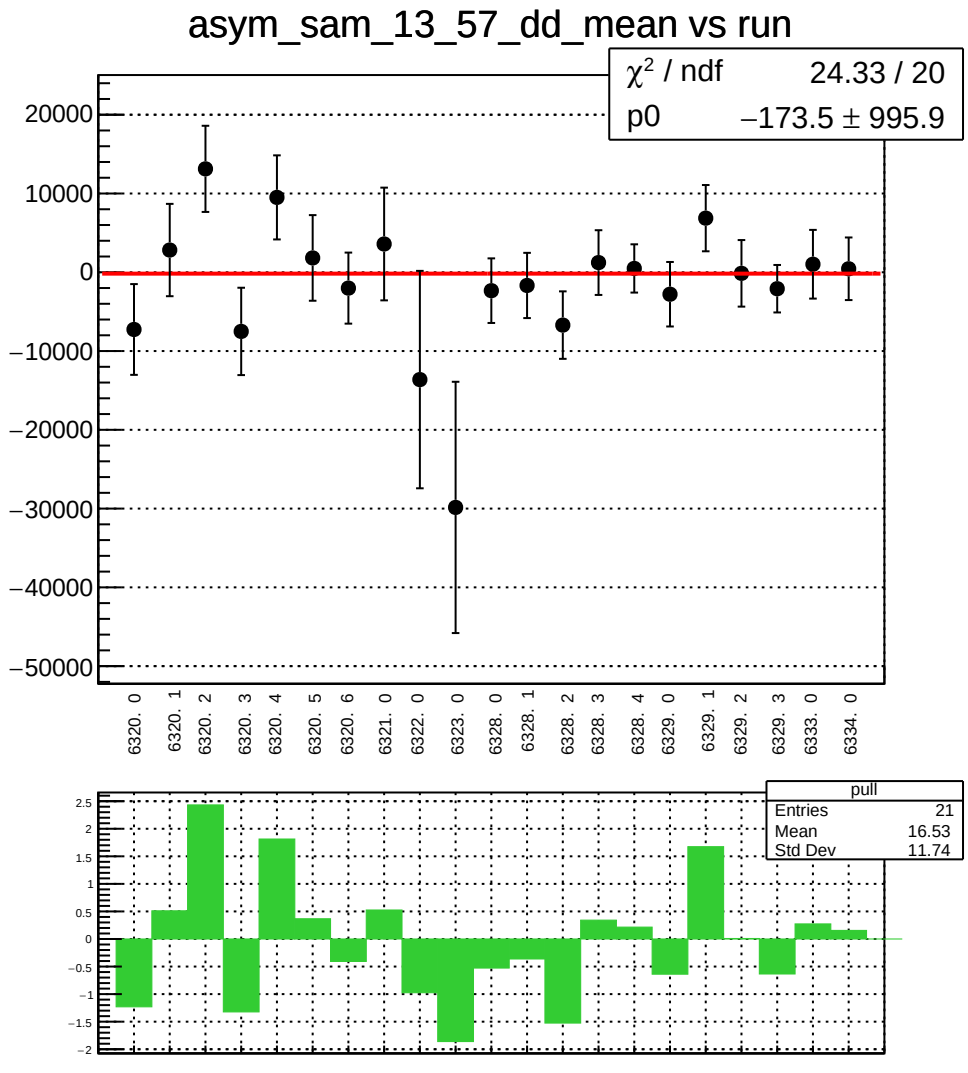

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 19.61 / 20
p0 253.2 ± 162.2
6000
5000
4000
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −43.56
Std Dev 55.06
1.5
1
0.5
0
−0.5
−1
−1.5

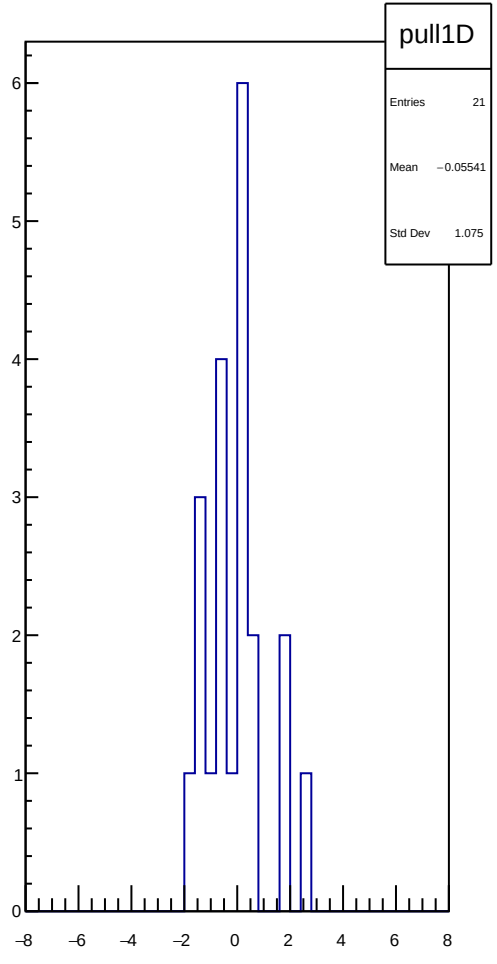

pull1D
Entries 21
Mean 0.04216
Std Dev 0.9655
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

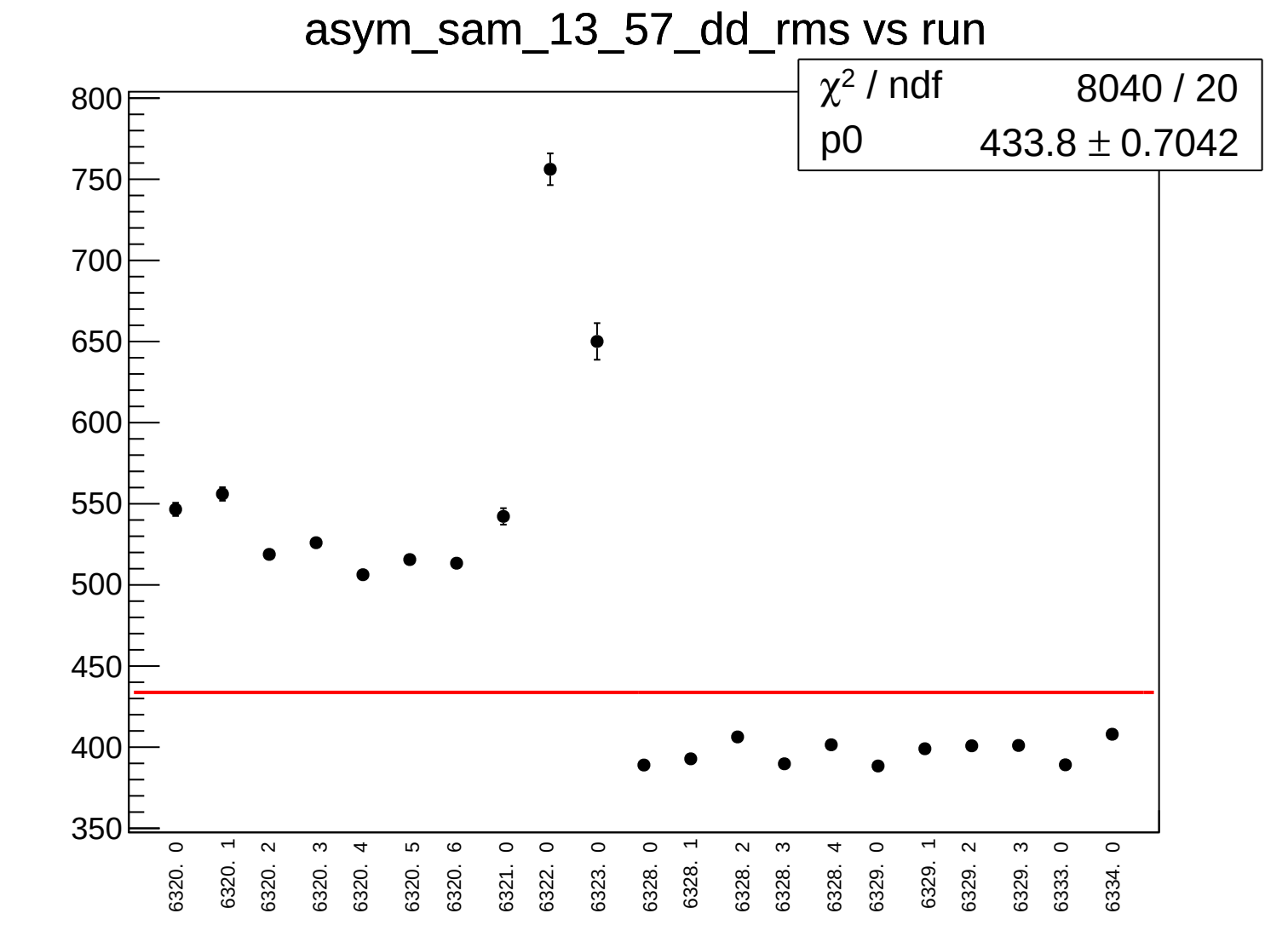

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2166 / 20
p0 71.2 ± 0.1147
140
130
120
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

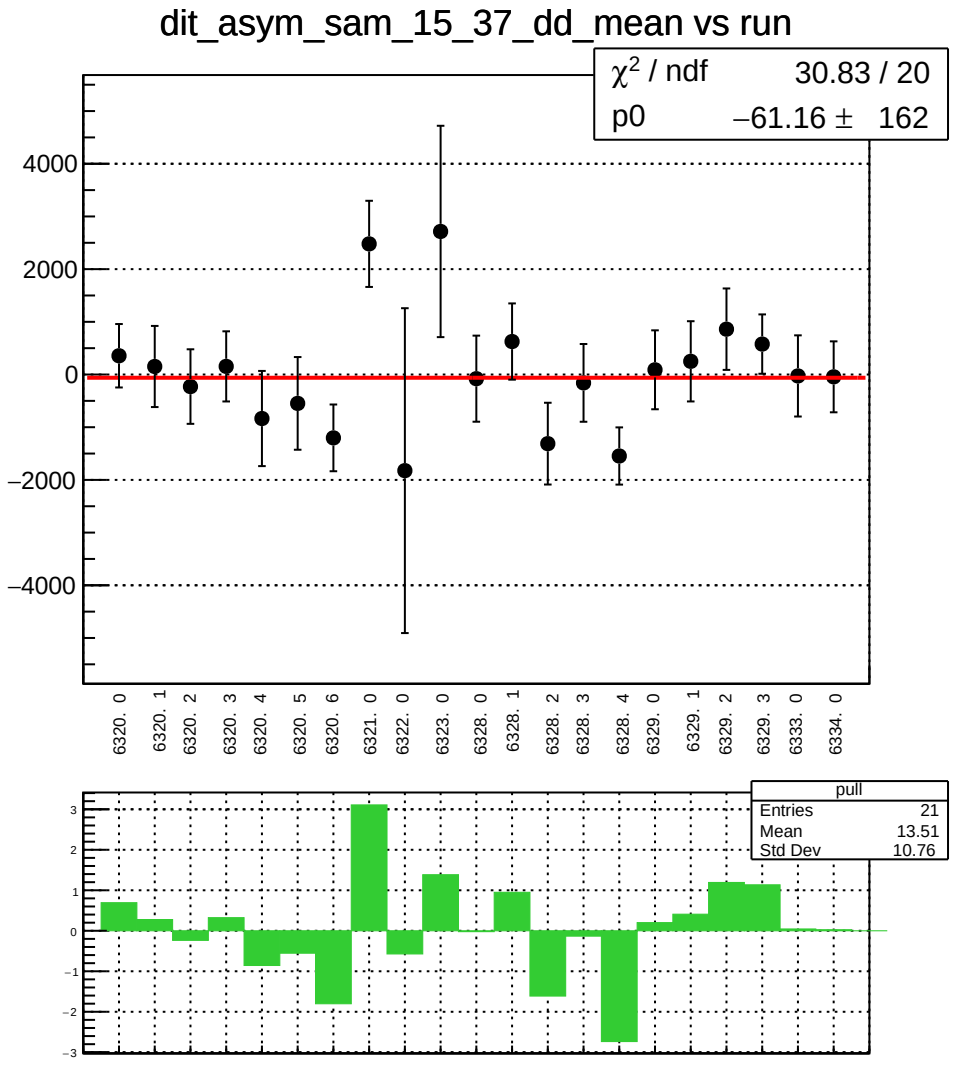

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 25.81 / 20
p0 432.9 ± 1036
50000
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.29
Std Dev 10.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean 0.05752
Std Dev 1.107
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

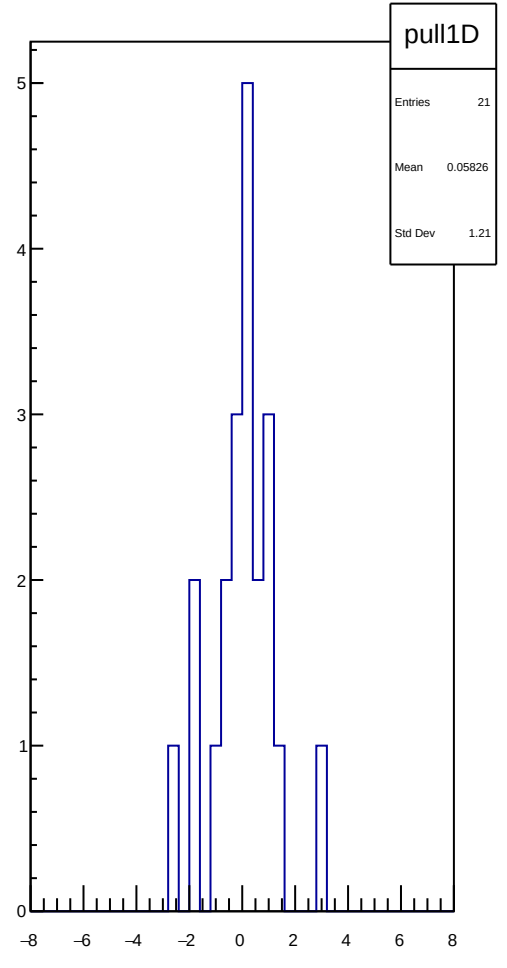

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 6890 / 20
p0 452 ± 0.7326
800
750
700
650
600
550
500
450
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

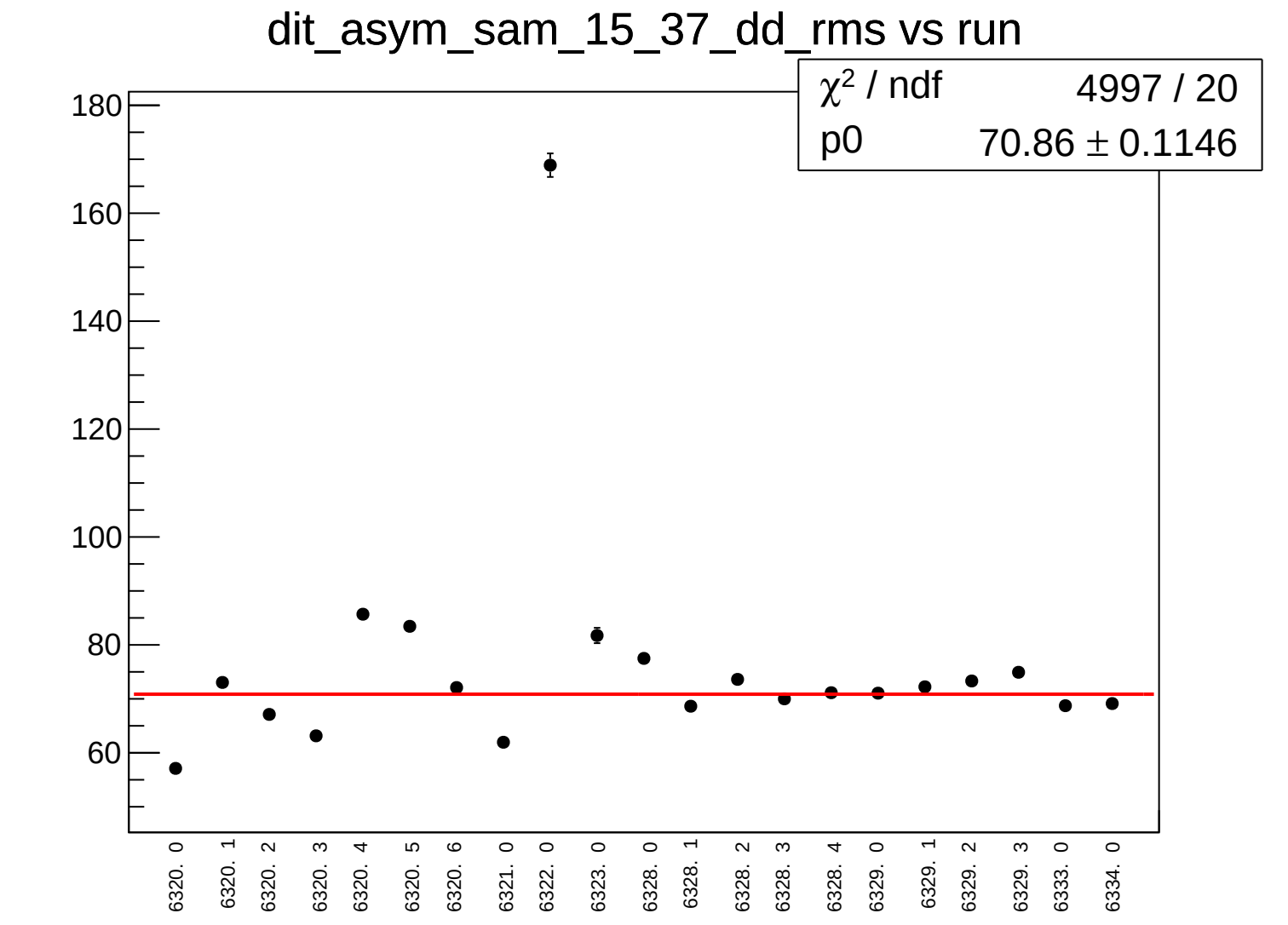

asym_sam_13_57_dd_mean vs run
χ² / ndf 24.33 / 20
p0 −173.5 ± 995.9
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 16.53
Std Dev 11.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

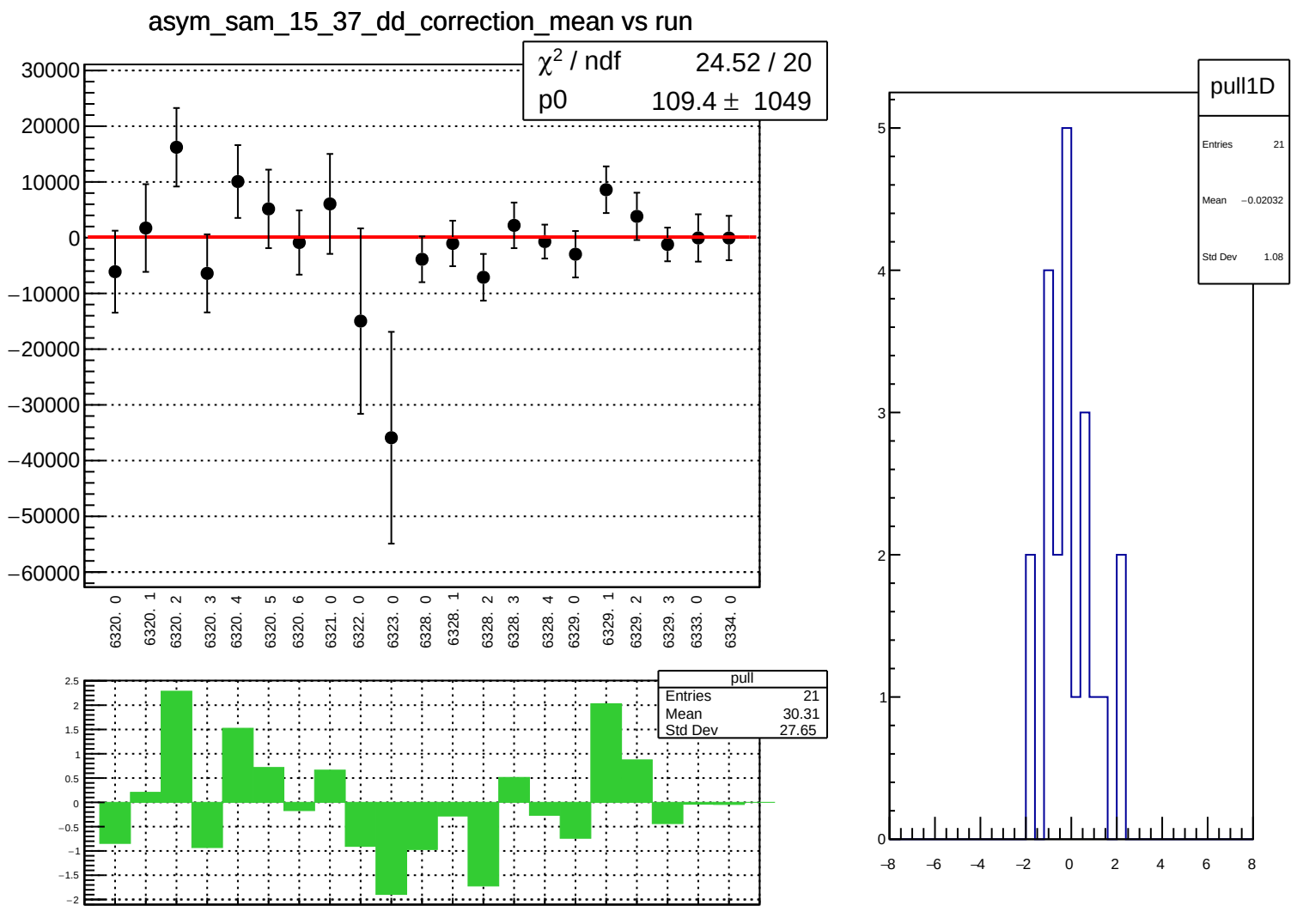

pull1D
Entries 21
Mean −0.05541
Std Dev 1.075
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

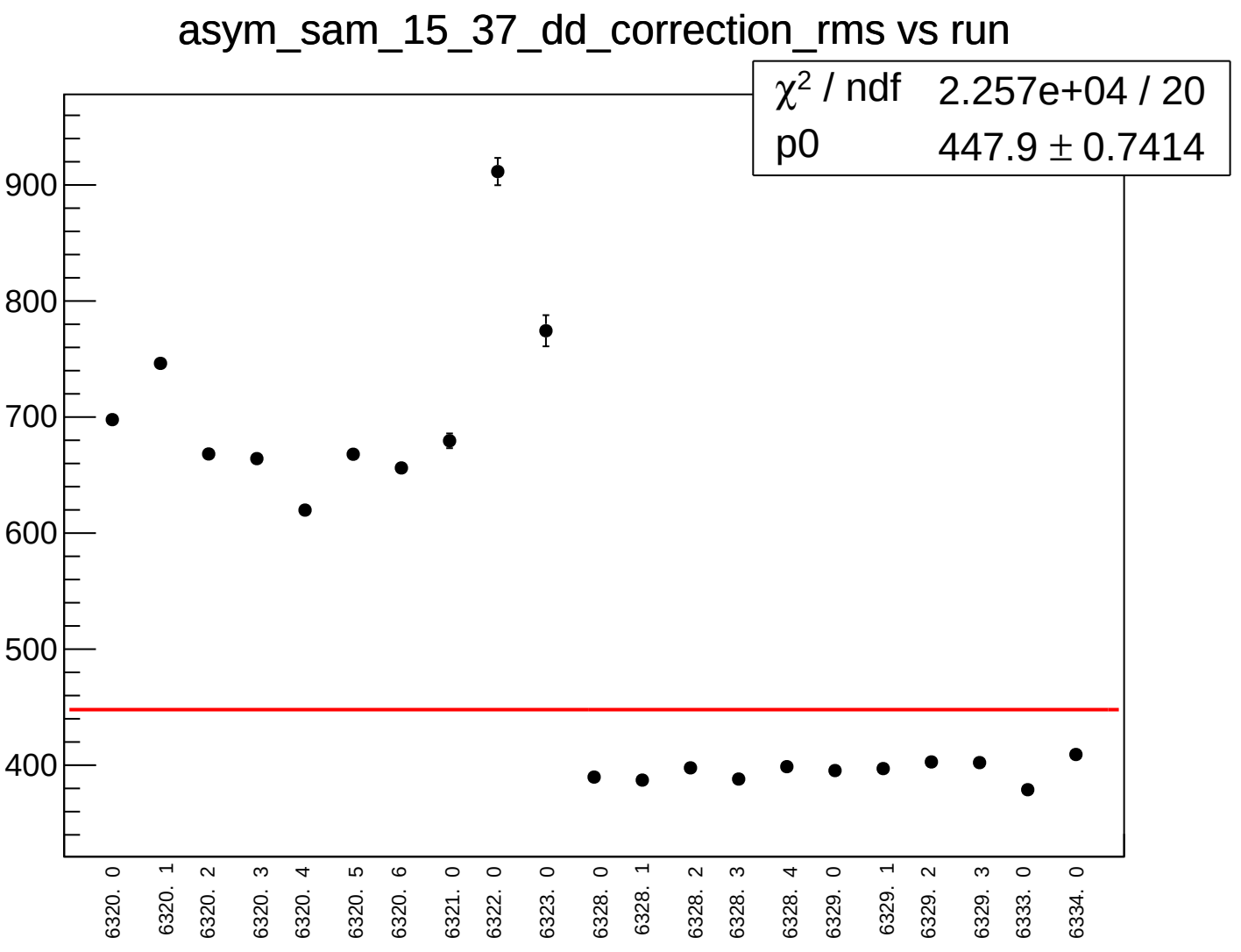

asym_sam_13_57_dd_rms vs run
χ² / ndf 8040 / 20
p0 433.8 ± 0.7042
800
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

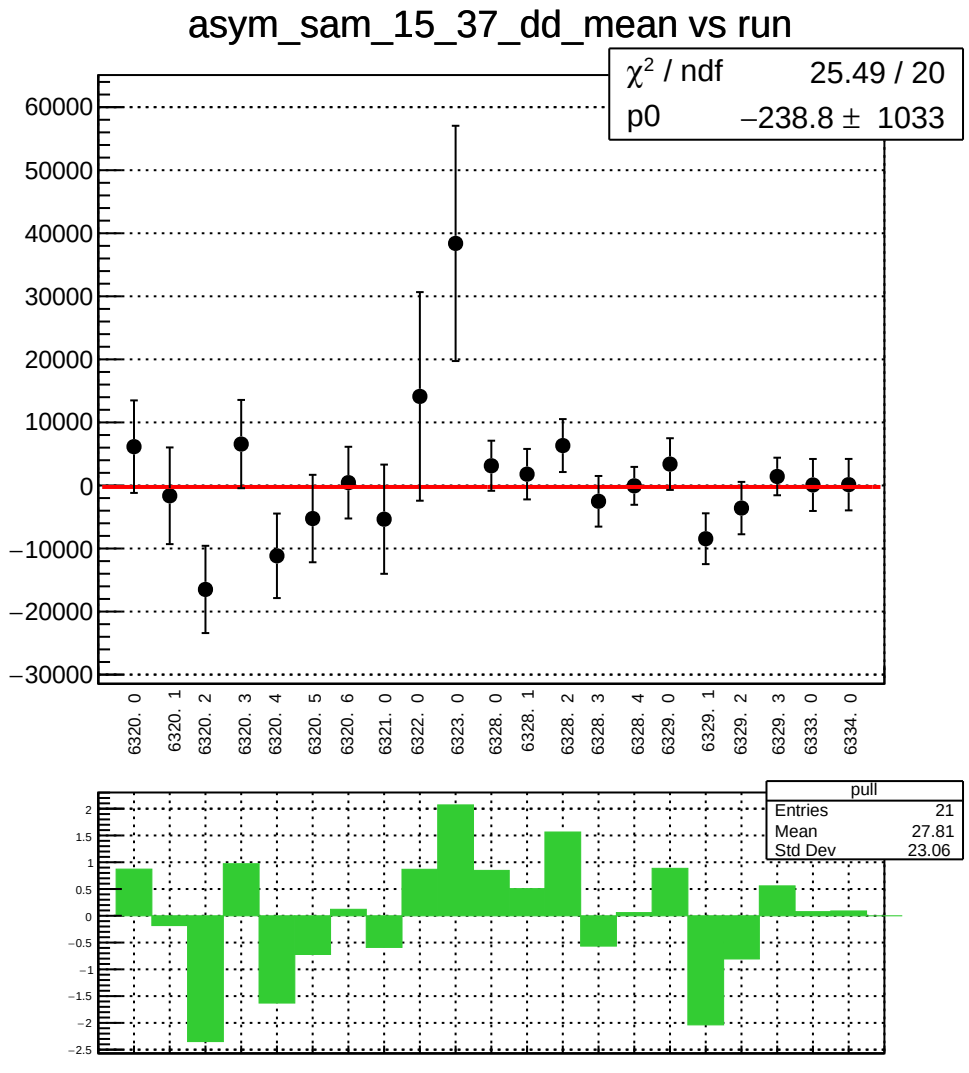

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 30.83 / 20
p0 −61.16 ± 162
4000
2000
0
−2000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.51
Std Dev 10.76
3
2
1
0
−1
−2
−3

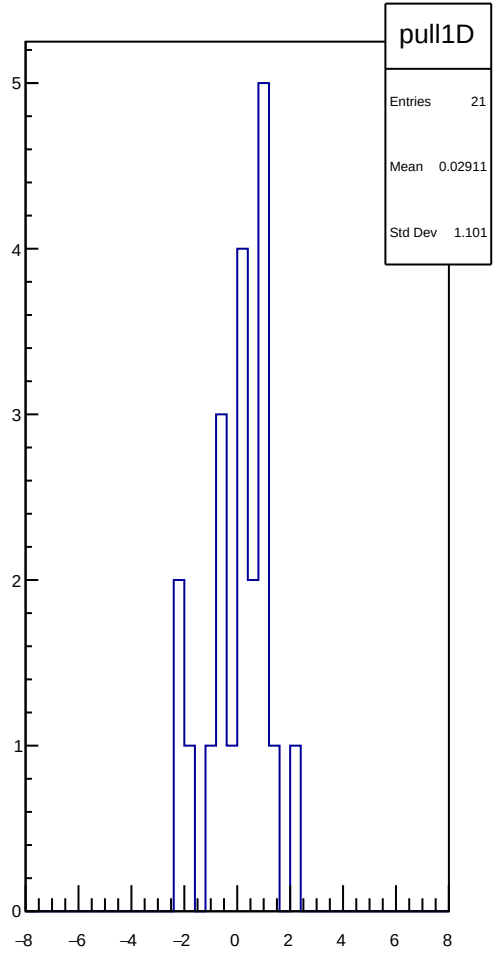

pull1D
Entries 21
Mean 0.05826
Std Dev 1.21
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

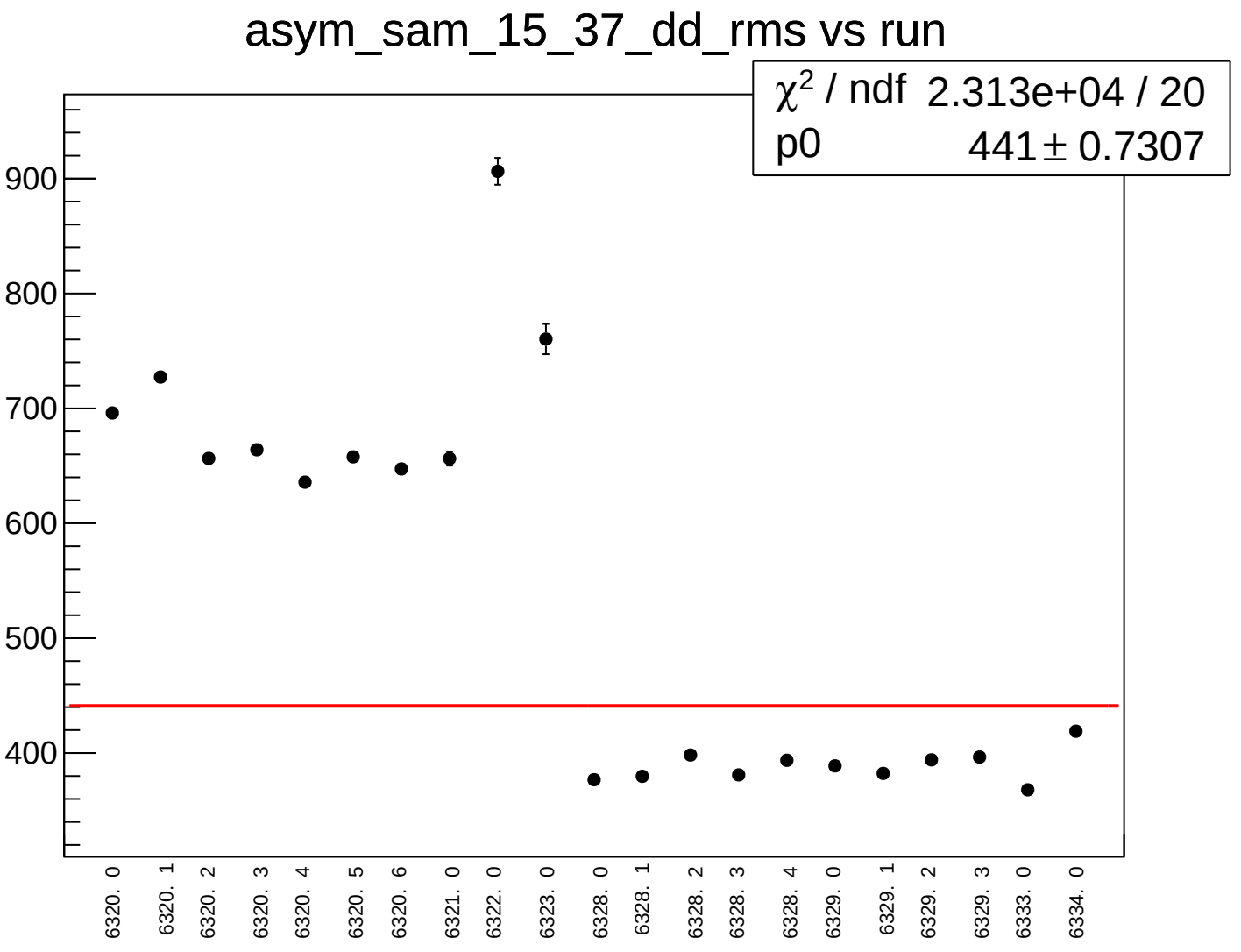

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4997 / 20
p0 70.86 ± 0.1146
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

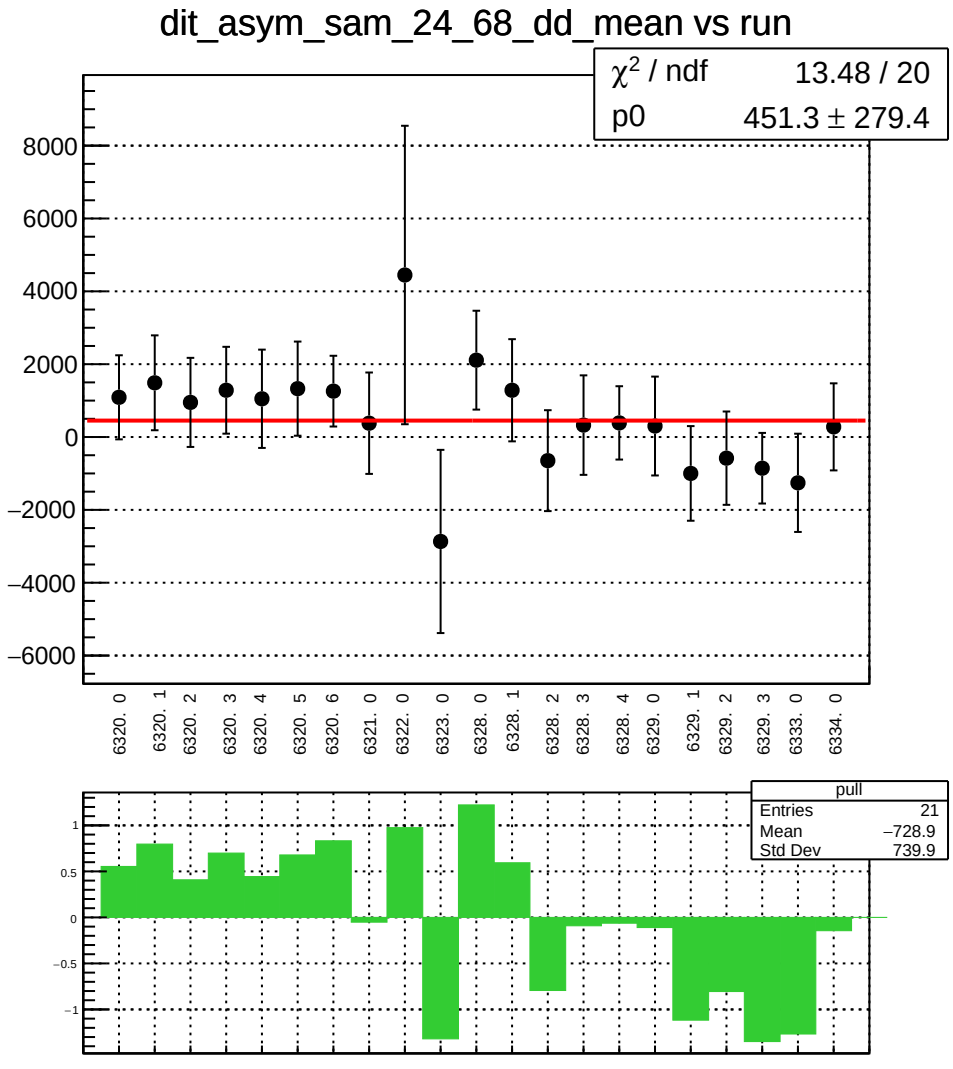

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 24.52 / 20
p0 109.4 ± 1049
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 30.31
Std Dev 27.65
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.02032
Std Dev 1.08
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

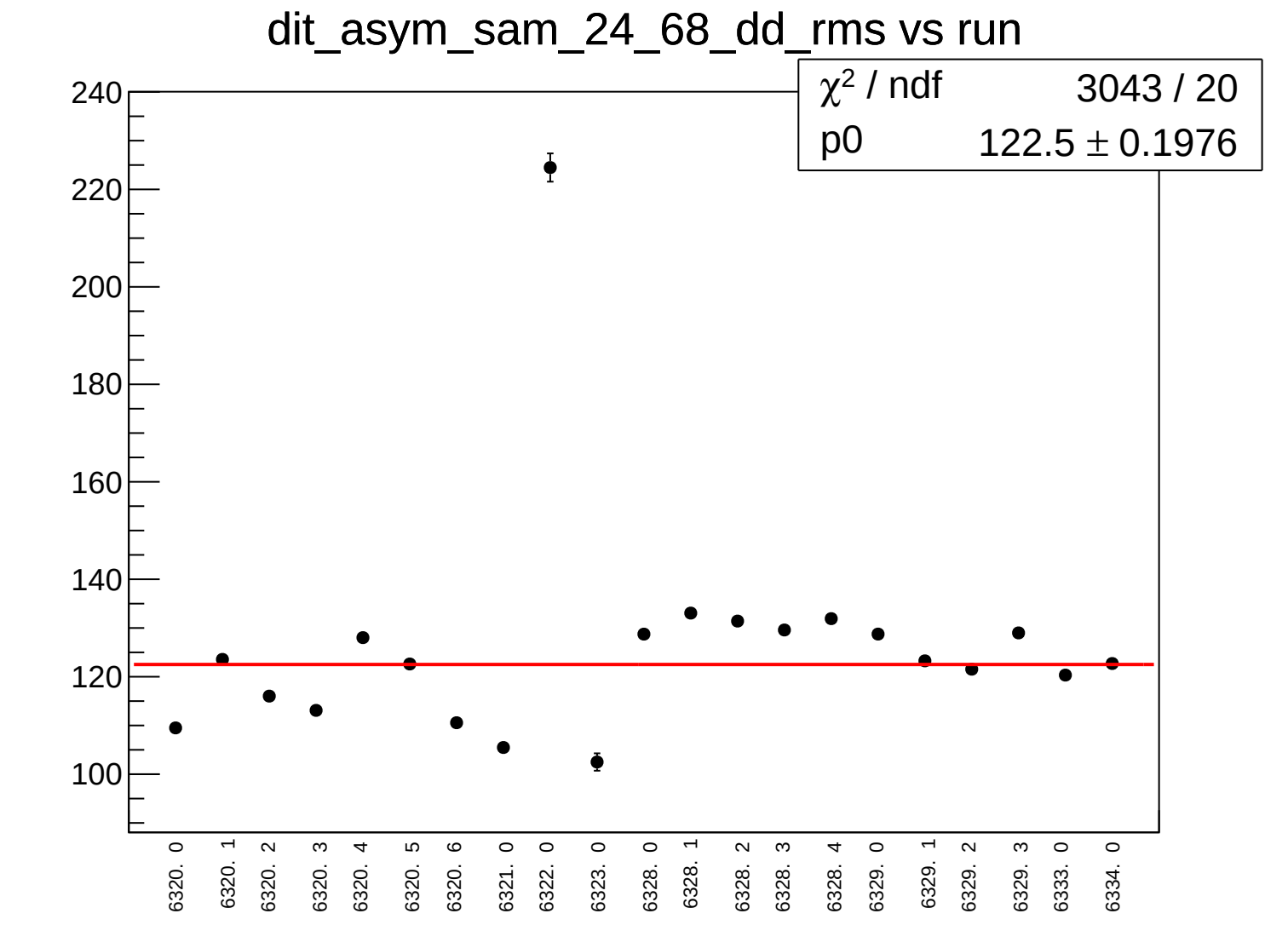

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.257e+04 / 20
p0 447.9 ± 0.7414
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

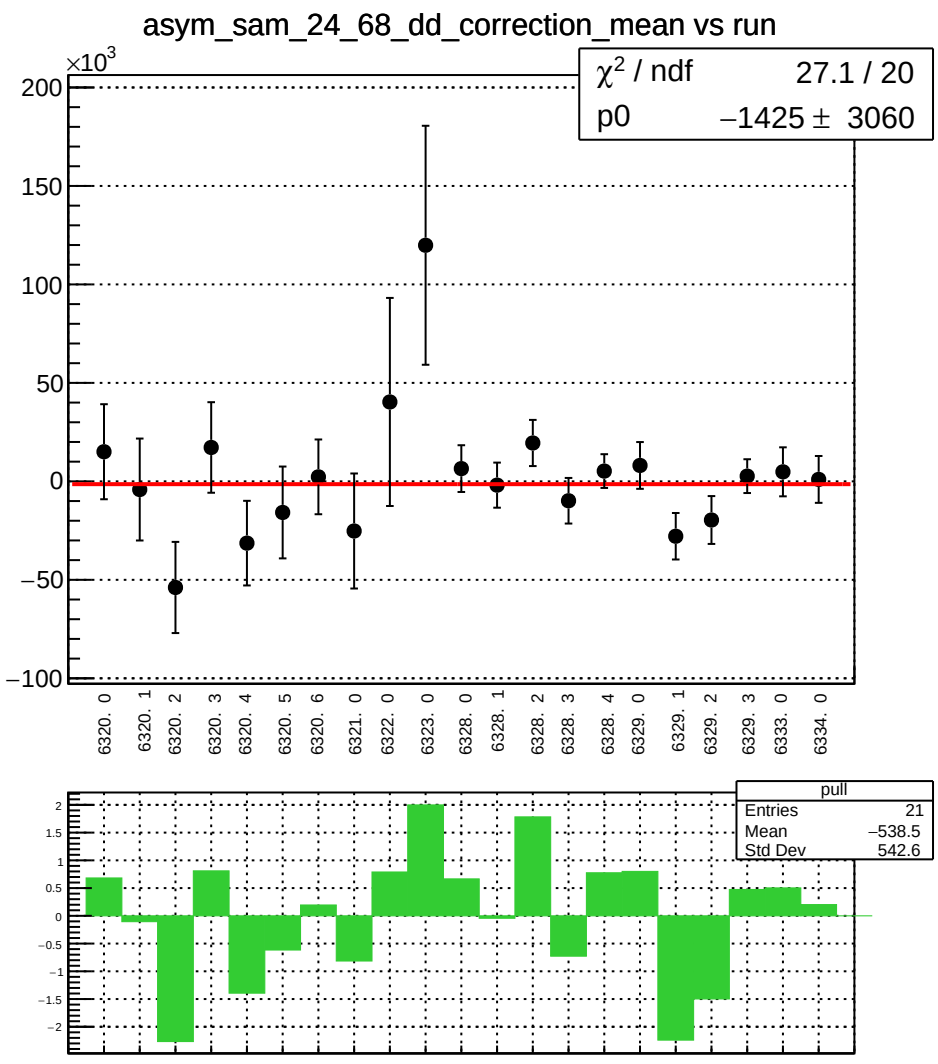

asym_sam_15_37_dd_mean vs run
χ² / ndf 25.49 / 20
p0 −238.8 ± 1033
60000
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.81
Std Dev 23.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

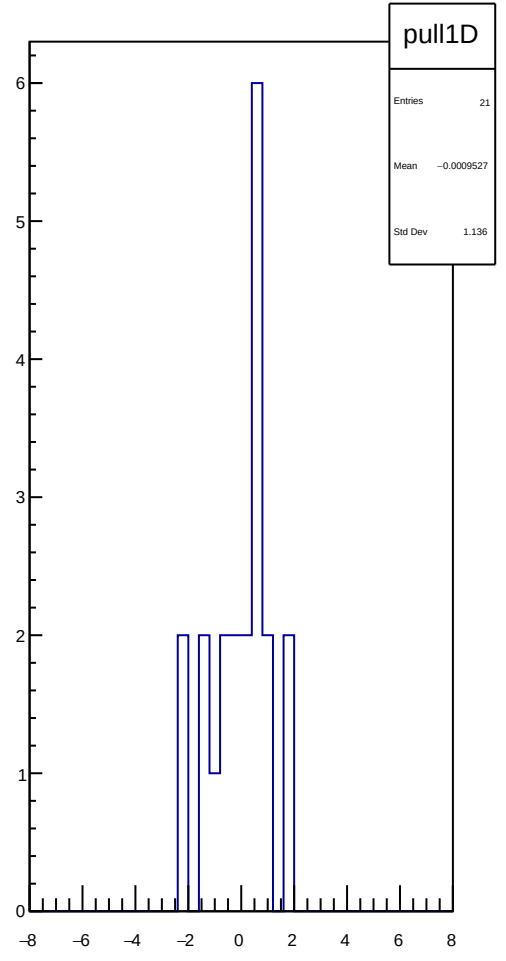

pull1D
Entries 21
Mean 0.02911
Std Dev 1.101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

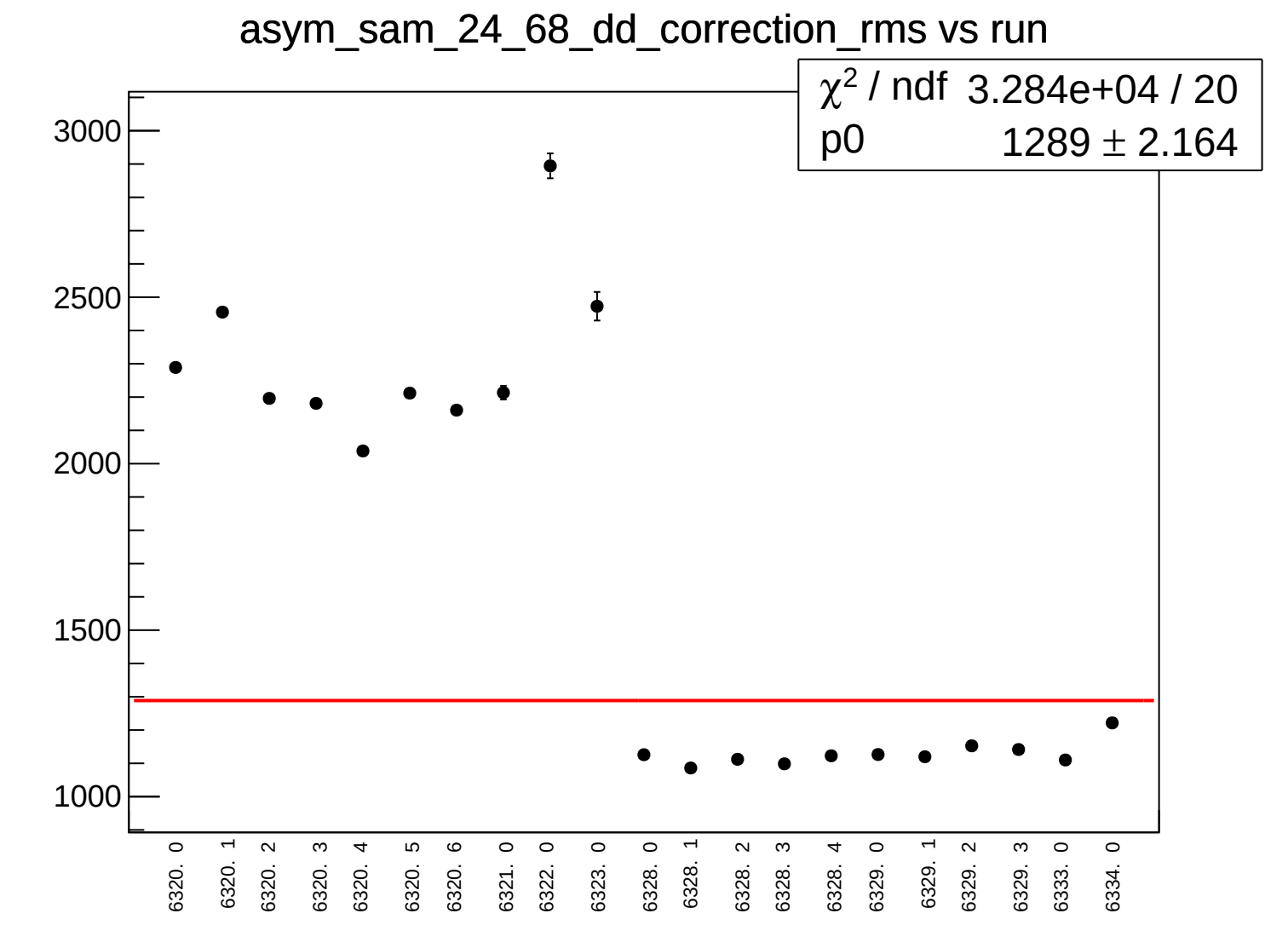

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.313e+04 / 20
p0 441 ± 0.7307
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

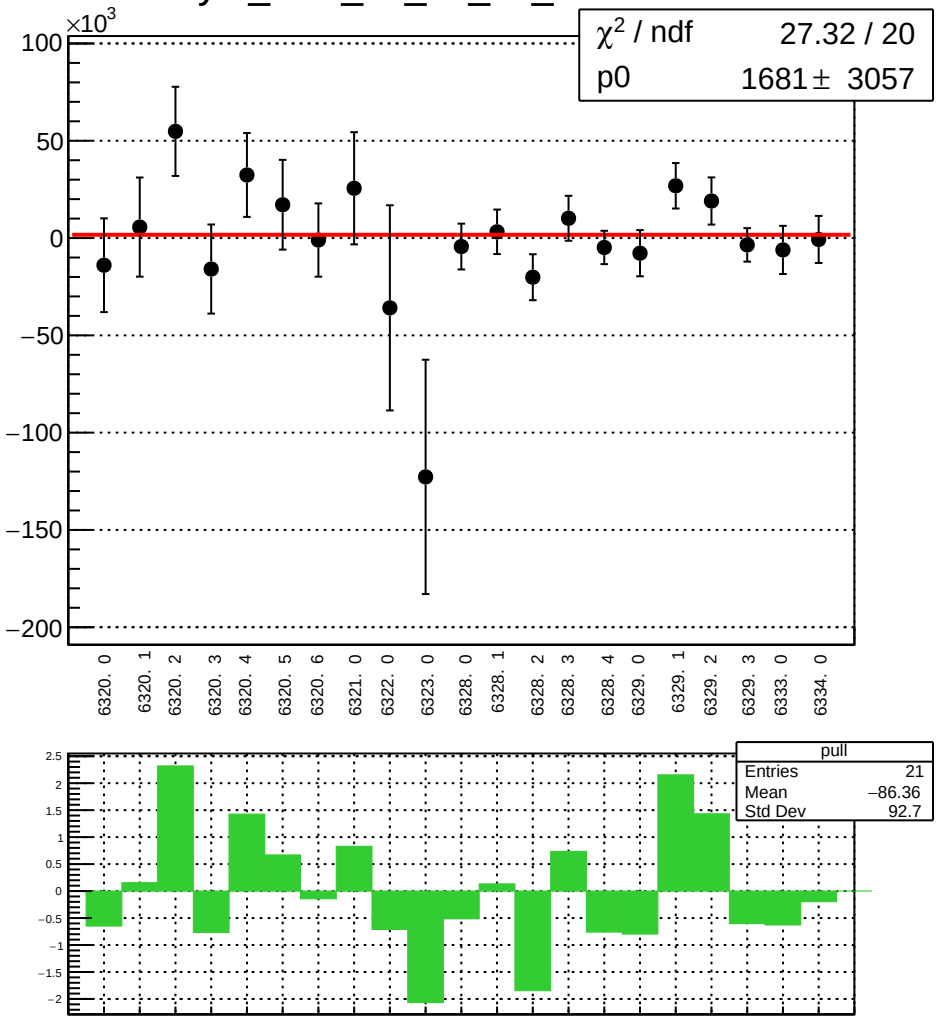

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 13.48 / 20
p0 451.3 ± 279.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −728.9
Std Dev 739.9
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.004429
Std Dev 0.8013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

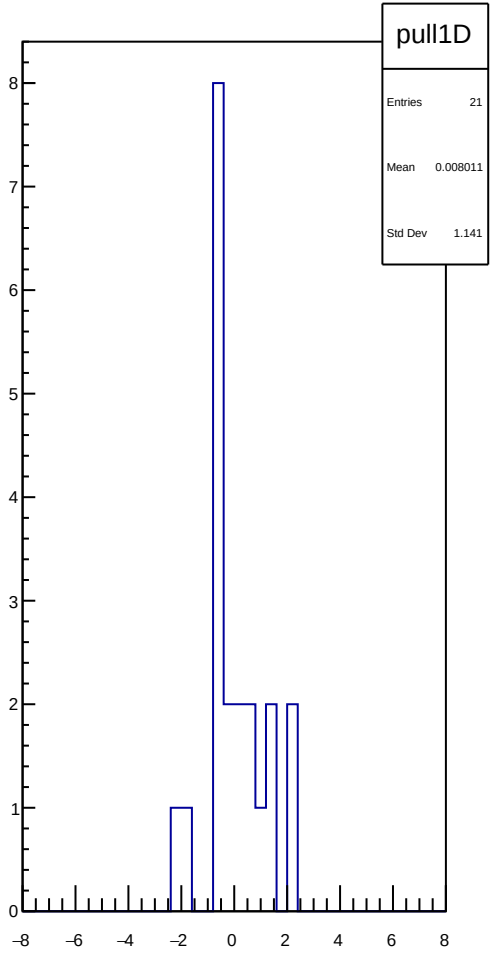

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3043 / 20
p0 122.5 ± 0.1976
240
220
200
180
160
140
120
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

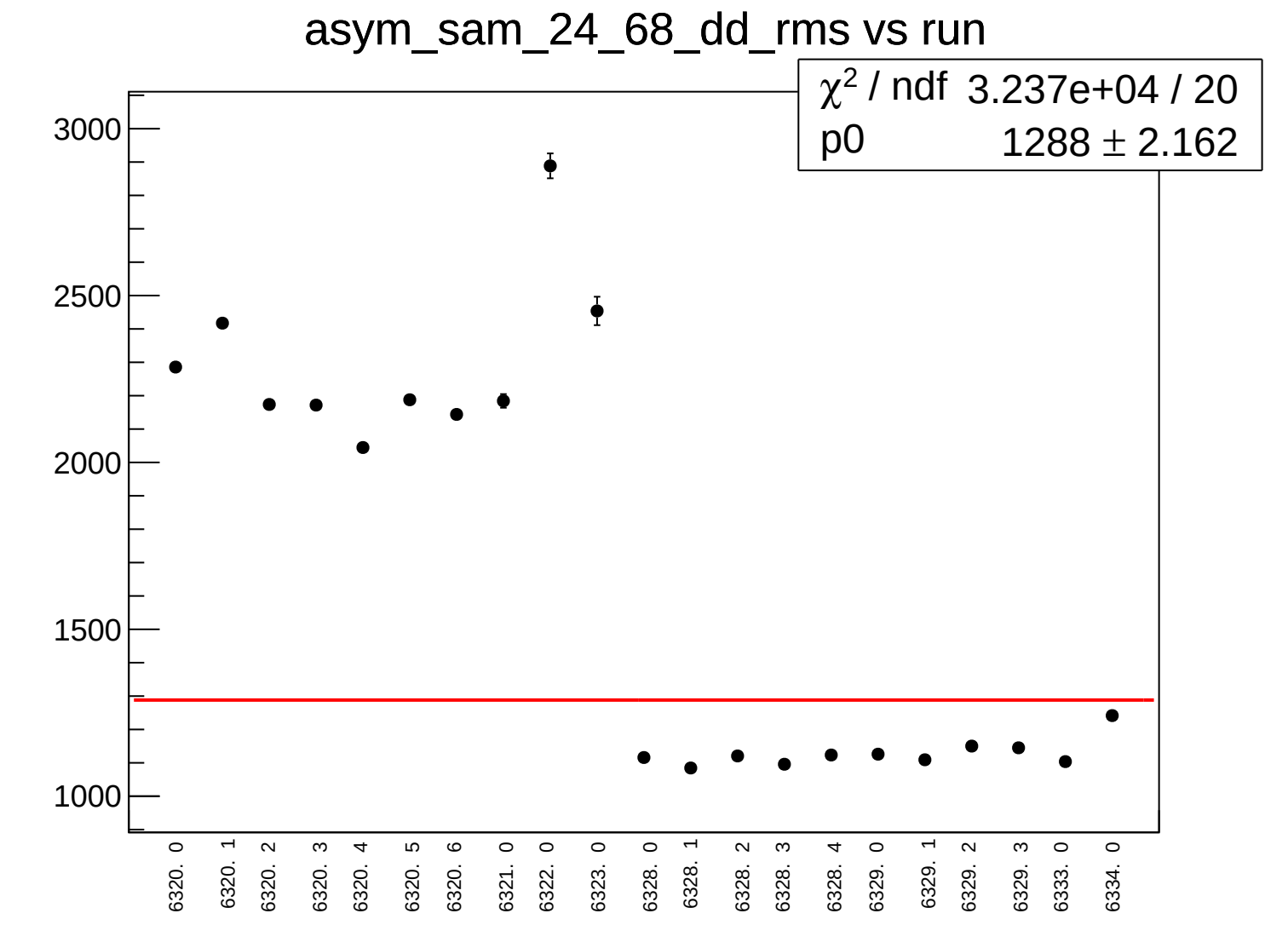

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 27.1 / 20
p0 −1425 ± 3060
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −538.5
Std Dev 542.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

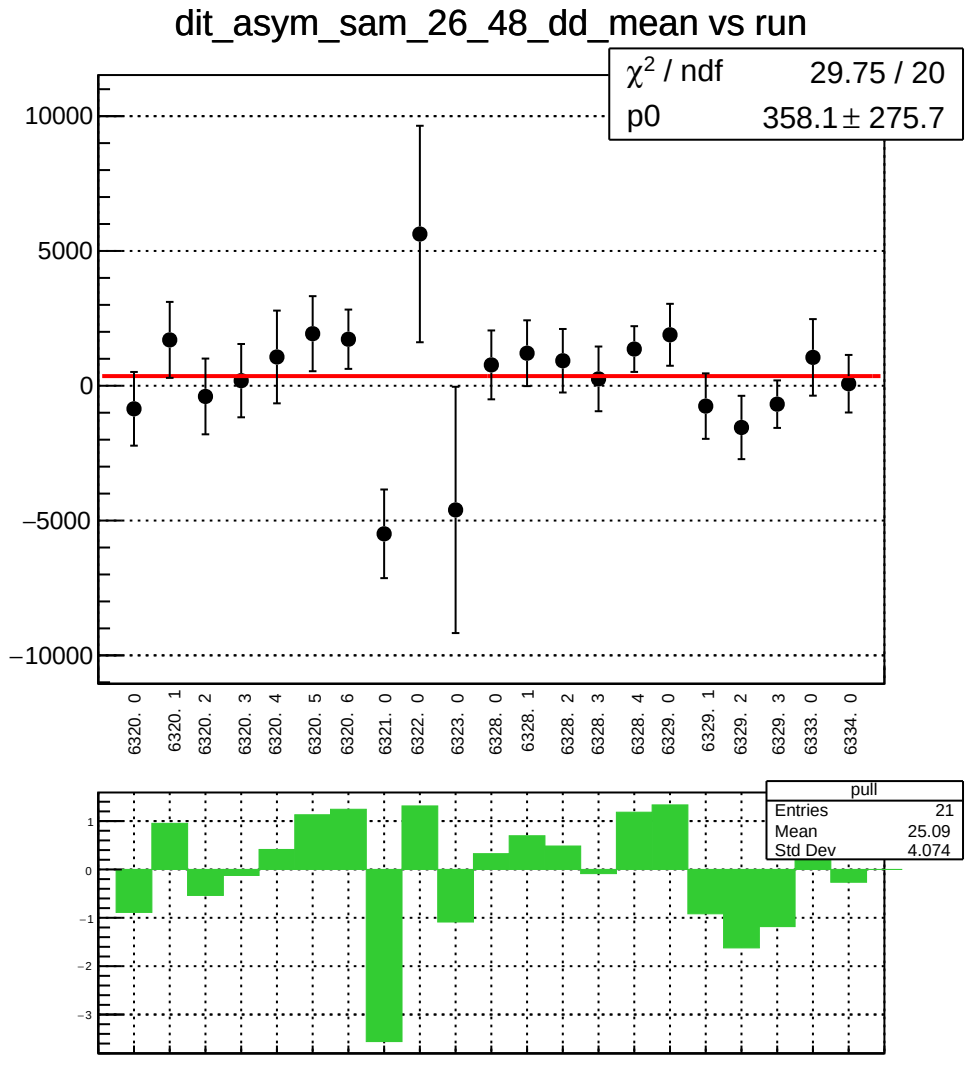

pull1D
Entries 21
Mean −0.0009527
Std Dev 1.136
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

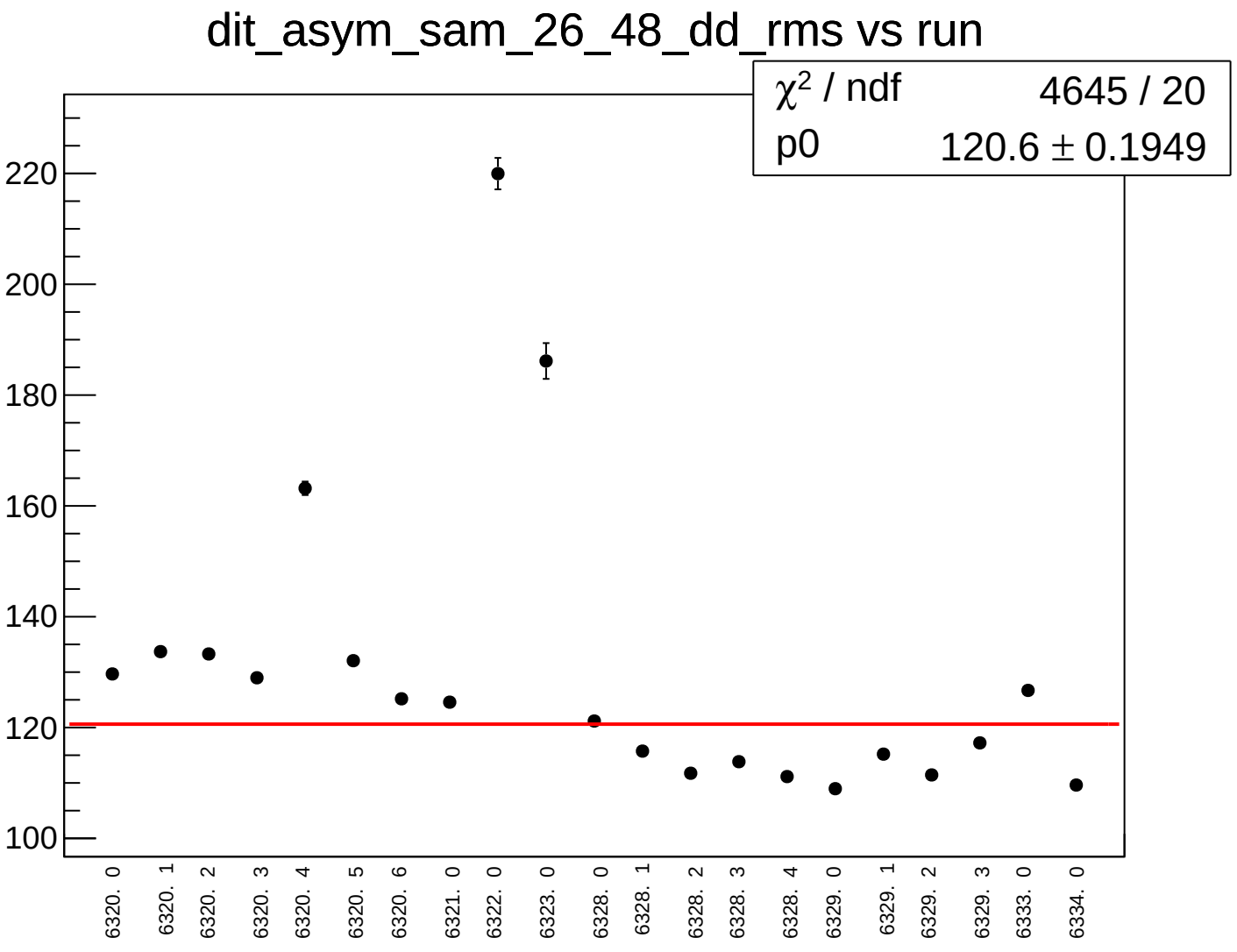

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3.284e+04 / 20
p0 1289 ± 2.164
3000
2500
2000
1500
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

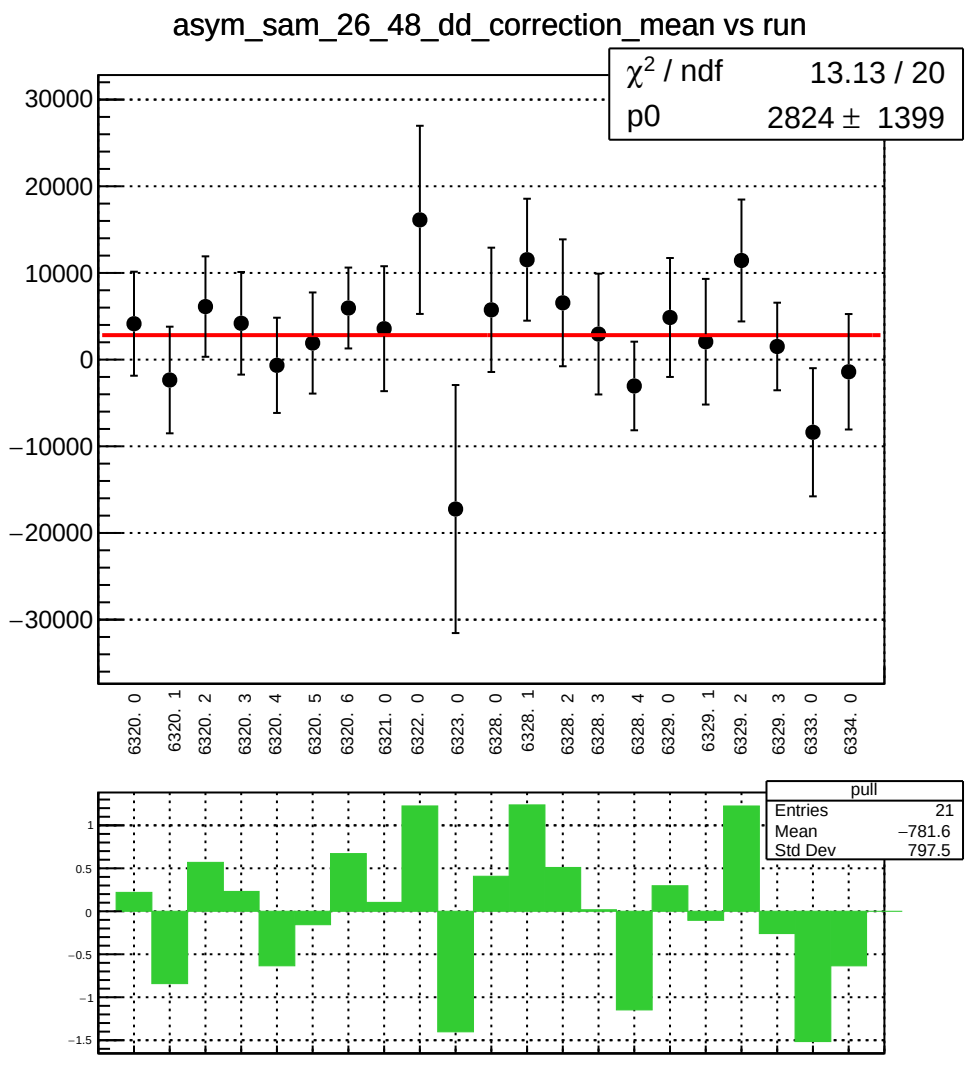

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 27.32 / 20
p0 1681 ± 3057
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −86.36
Std Dev 92.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

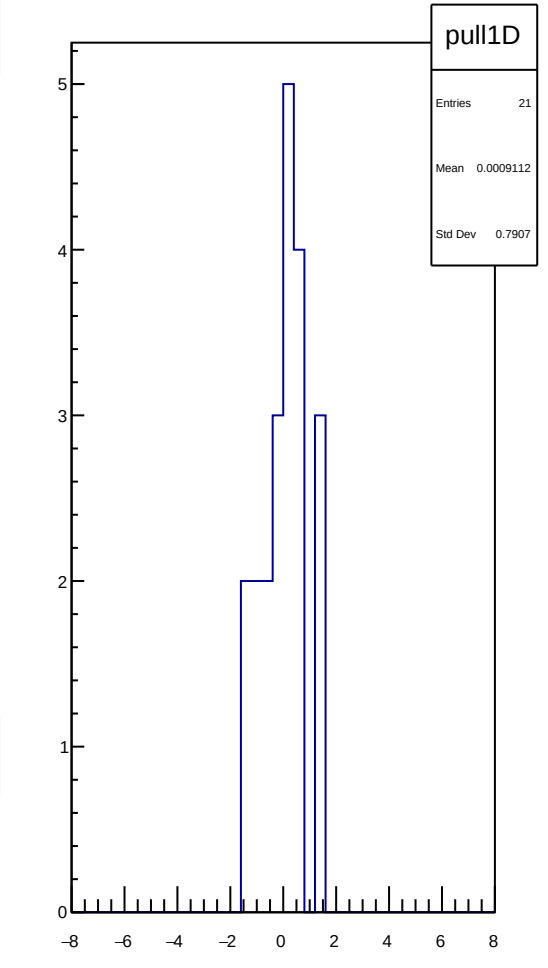

pull1D
Entries 21
Mean 0.008011
Std Dev 1.141
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

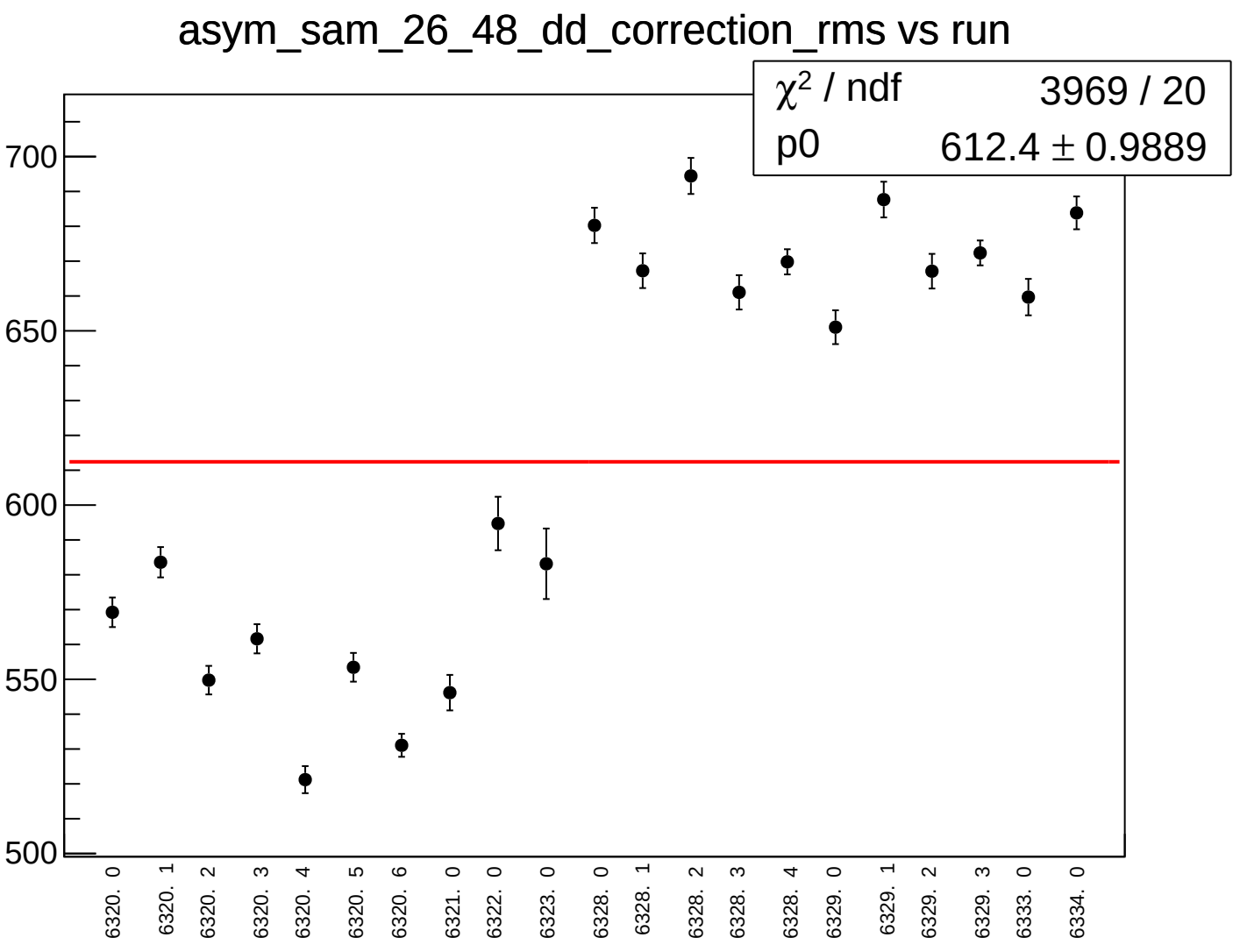

asym_sam_24_68_dd_rms vs run
χ² / ndf 3.237e+04 / 20
p0 1288 ± 2.162
3000
2500
2000
1500
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

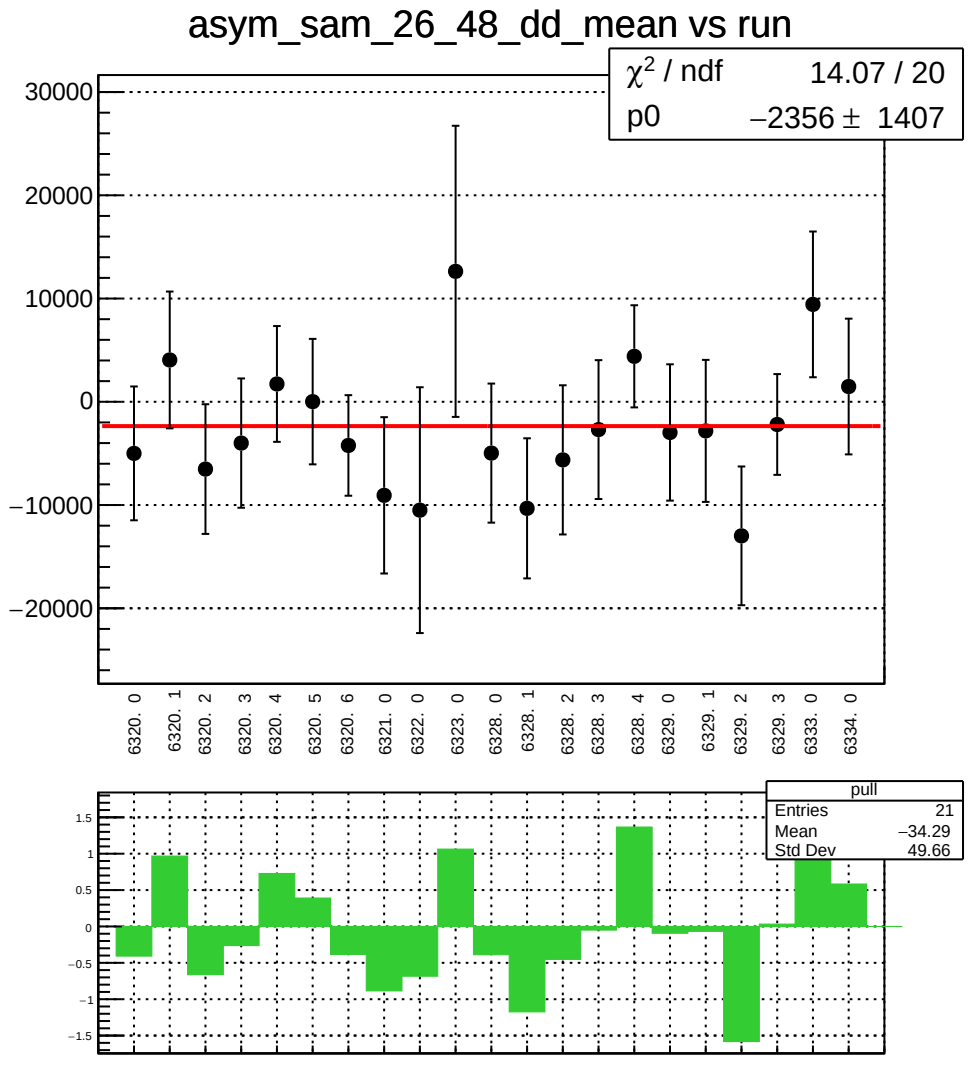

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 29.75 / 20
p0 358.1 ± 275.7
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.09
Std Dev 4.074
1
0
−1
−2
−3
pull1D
Entries 21
Mean −0.03342
Std Dev 1.19
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

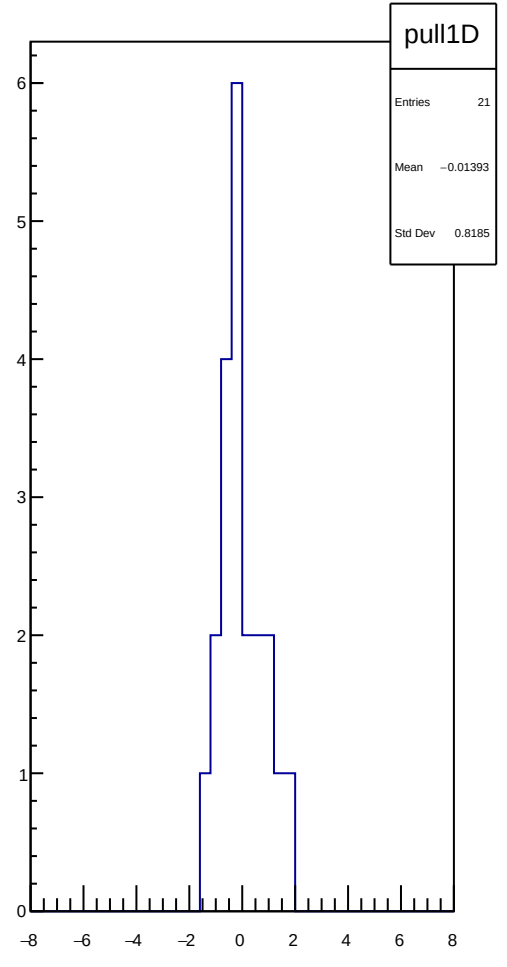

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4645 / 20
p0 120.6 ± 0.1949
220
200
180
160
140
120
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

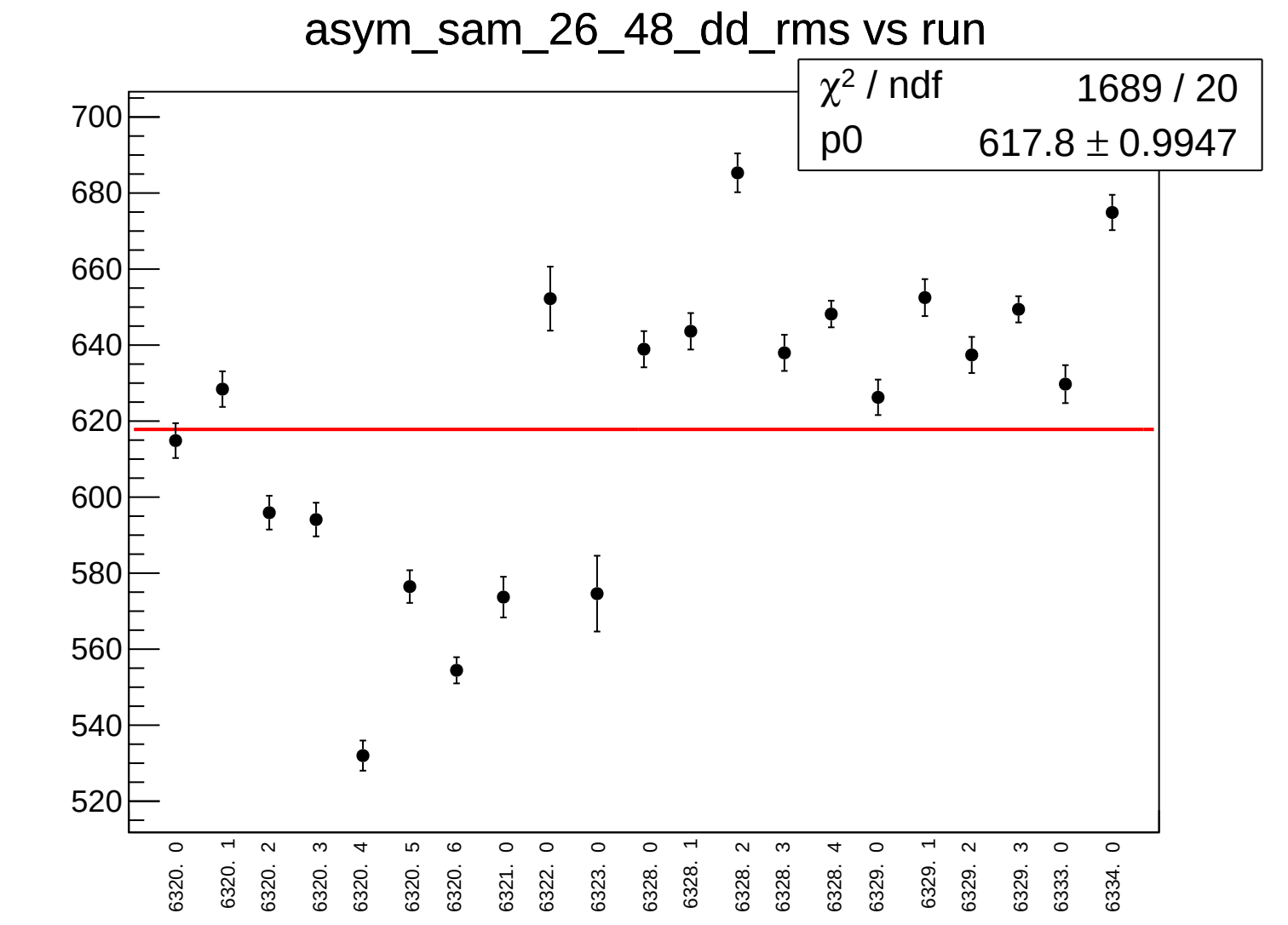

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 13.13 / 20
p0 2824 ± 1399
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −781.6
Std Dev 797.5
1
0.5
0
−0.5
−1
−1.5

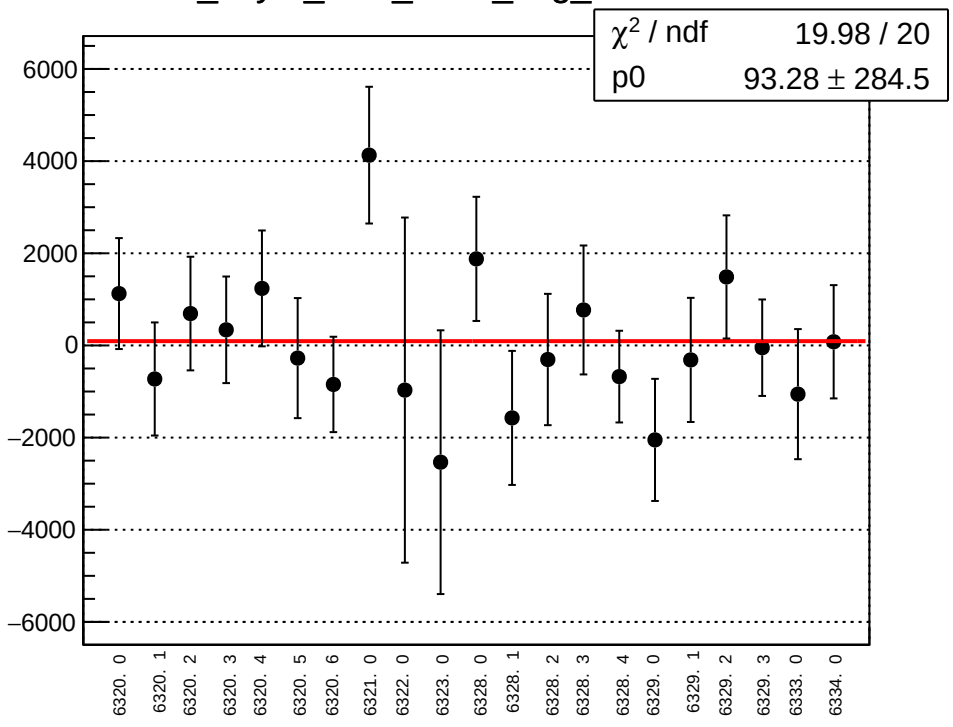

pull1D
Entries 21
Mean 0.0009112
Std Dev 0.7907
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

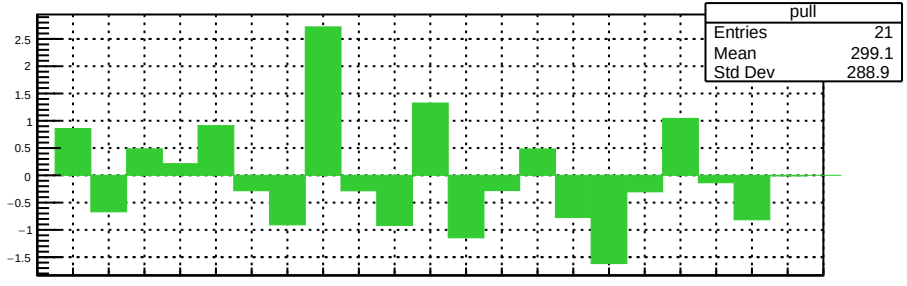

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3969 / 20
p0 612.4 ± 0.9889
700
650
600
550
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

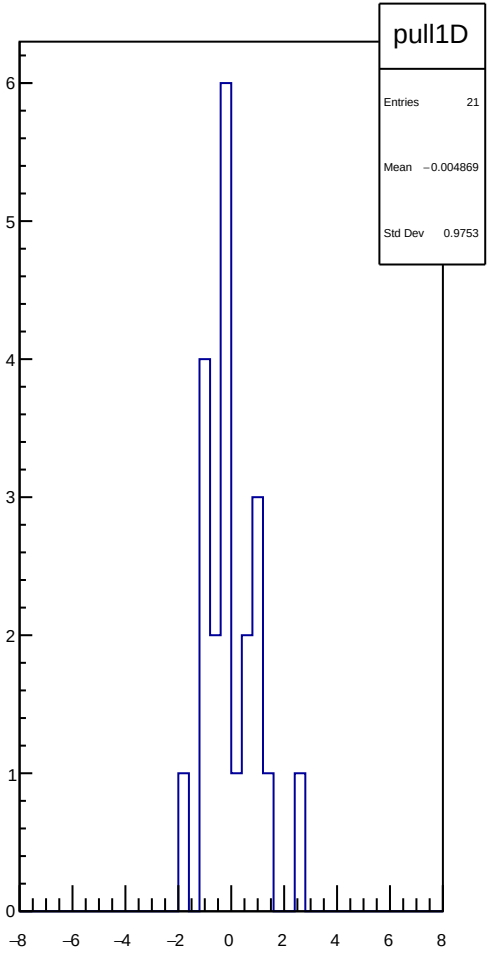

asym_sam_26_48_dd_mean vs run
χ² / ndf 14.07 / 20
p0 −2356 ± 1407
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −34.29
Std Dev 49.66
1.5
1
0.5
0
−0.5
−1
−1.5

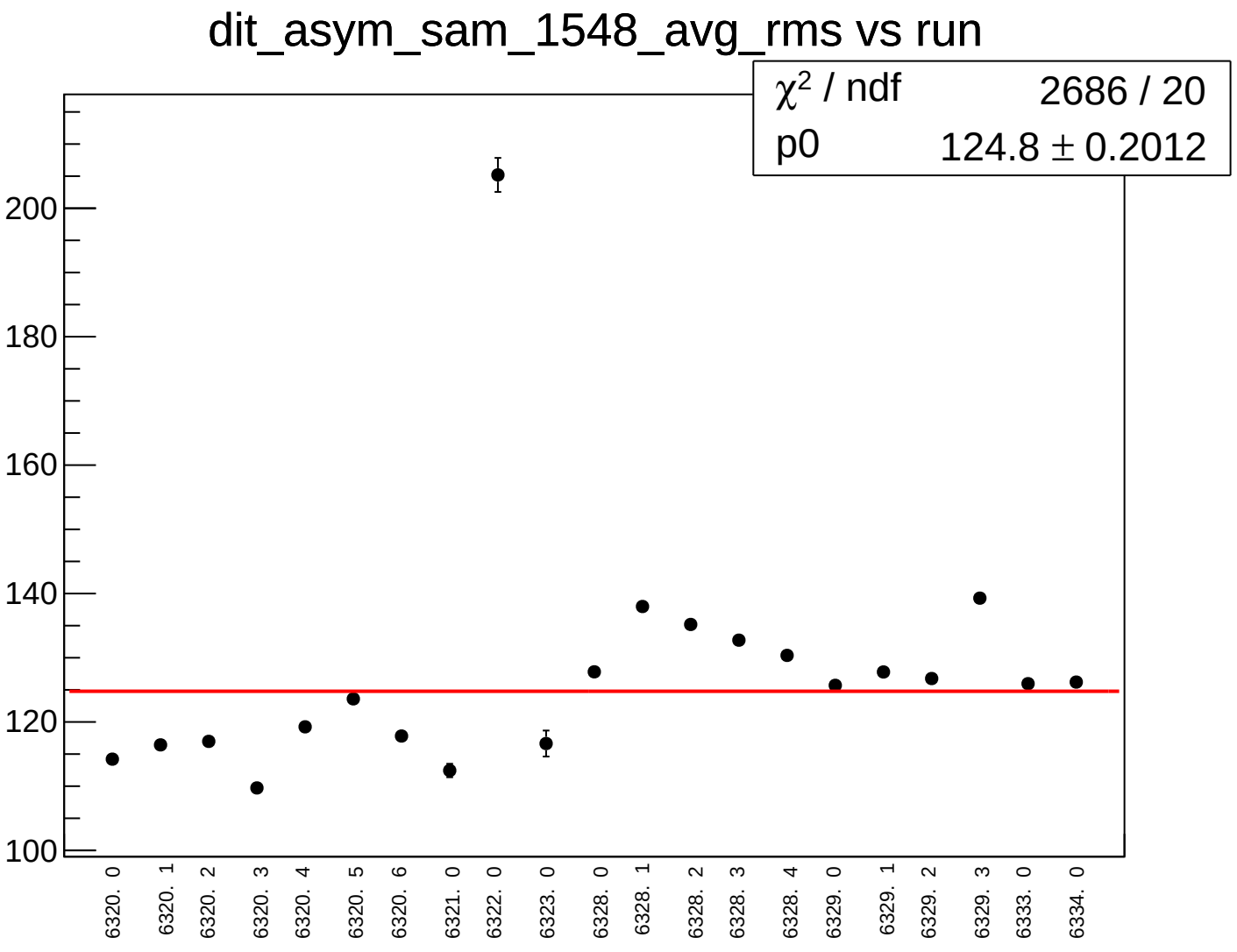

pull1D
Entries 21
Mean −0.01393
Std Dev 0.8185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

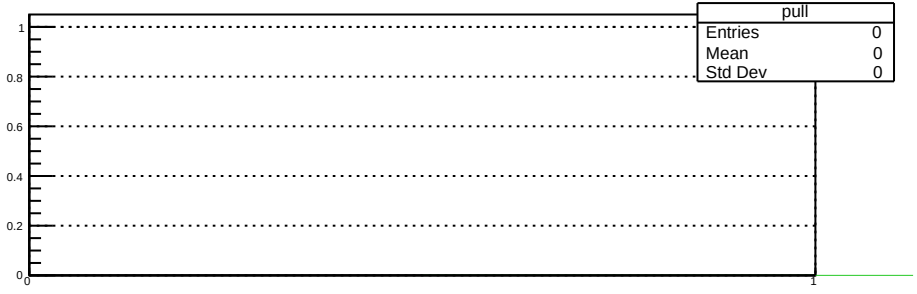

asym_sam_26_48_dd_rms vs run
χ² / ndf 1689 / 20
p0 617.8 ± 0.9947
700
680
660
640
620
600
580
560
540
520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

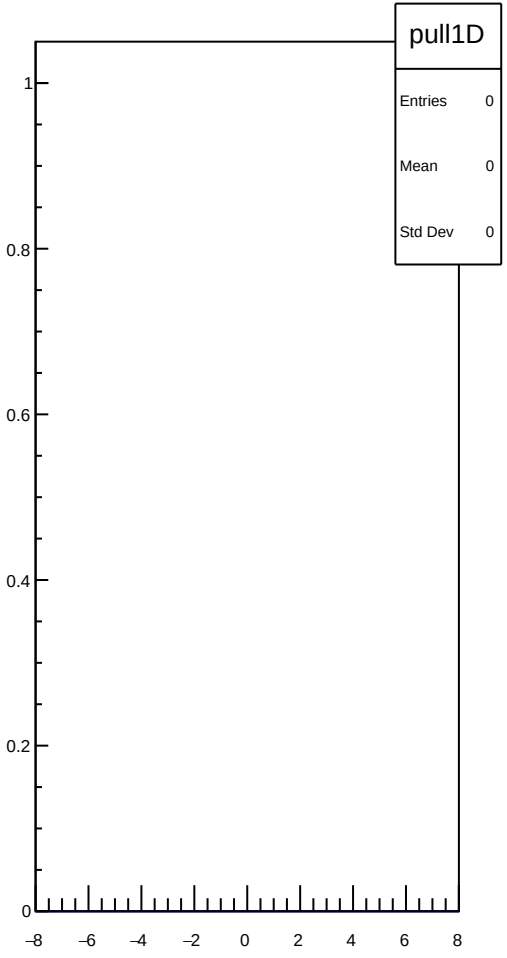

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 19.98 / 20
p0 93.28 ± 284.5
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

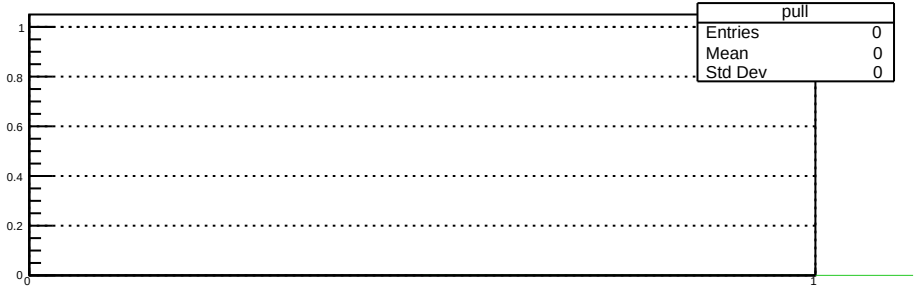

pull
Entries 21
Mean 299.1
Std Dev 288.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

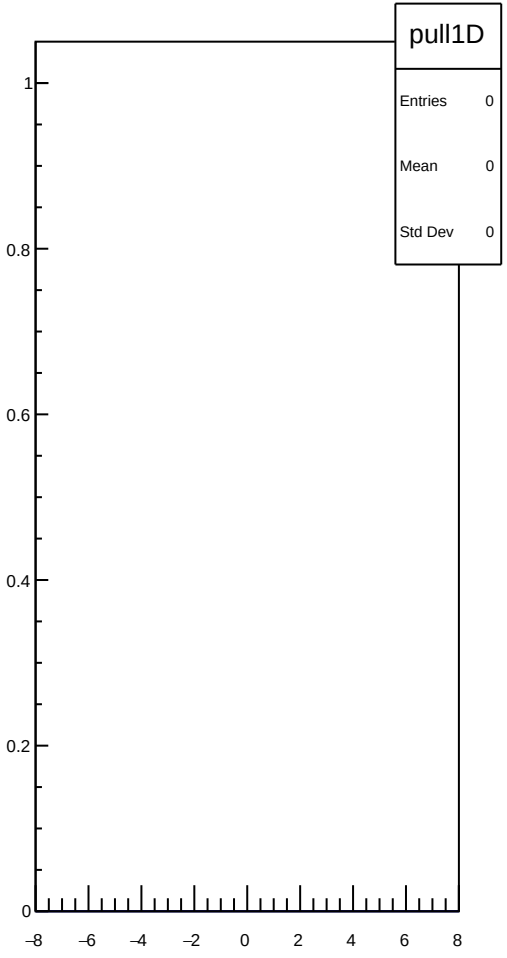

pull1D
Entries 21
Mean −0.004869
Std Dev 0.9753
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

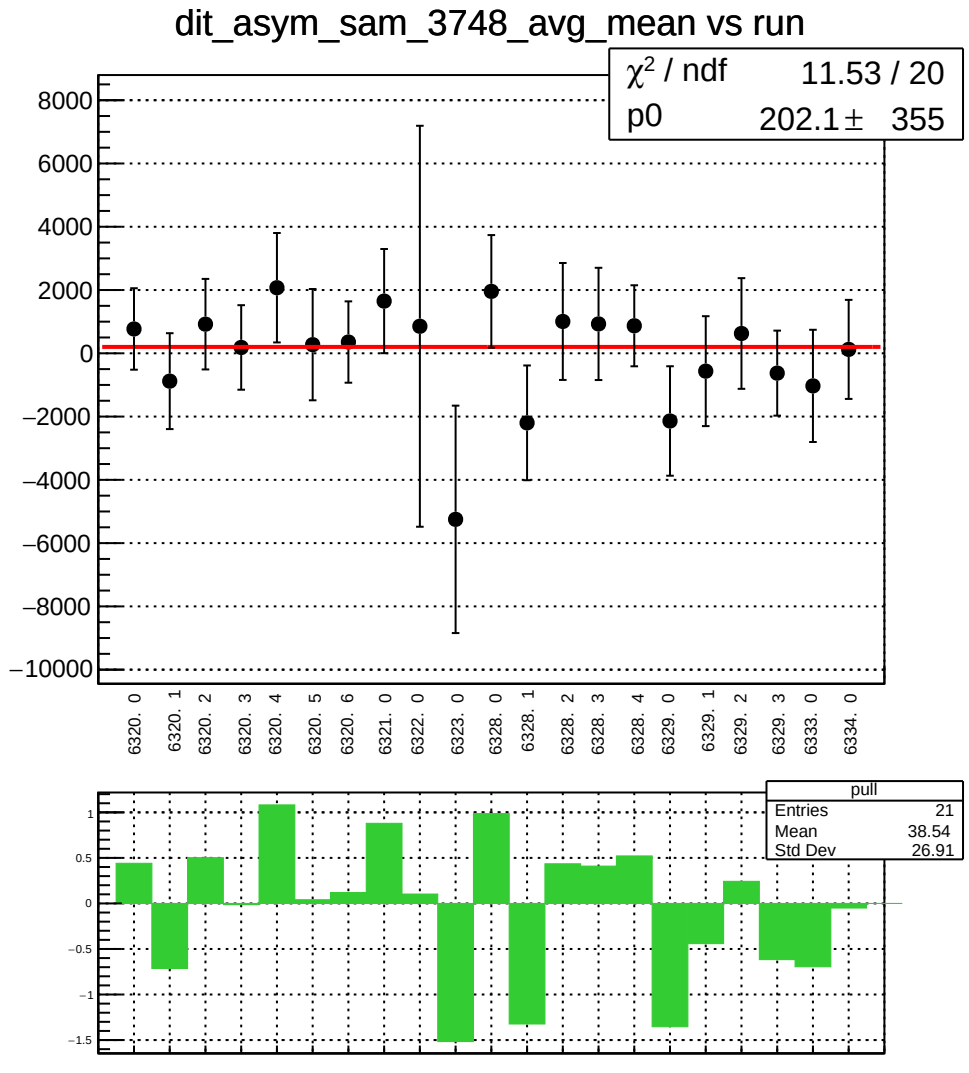

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2686 / 20
p0 124.8 ± 0.2012
200
180
160
140
120
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

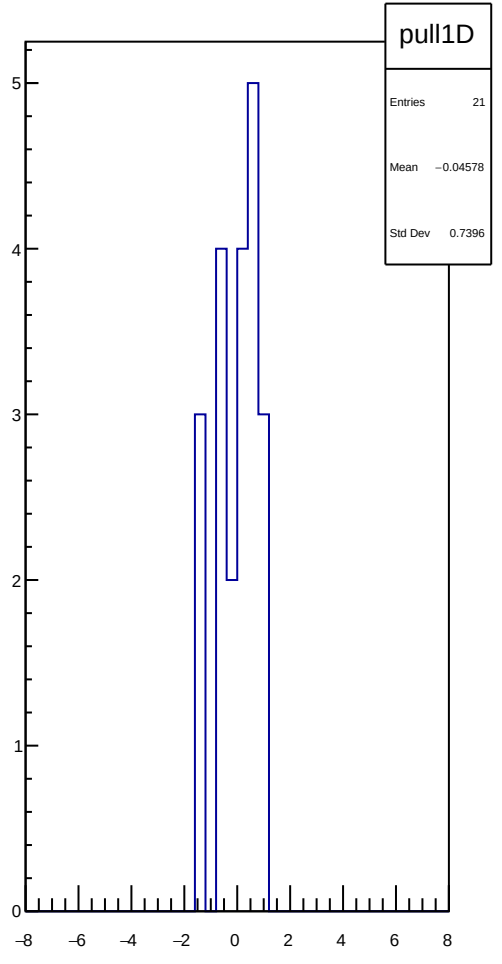

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

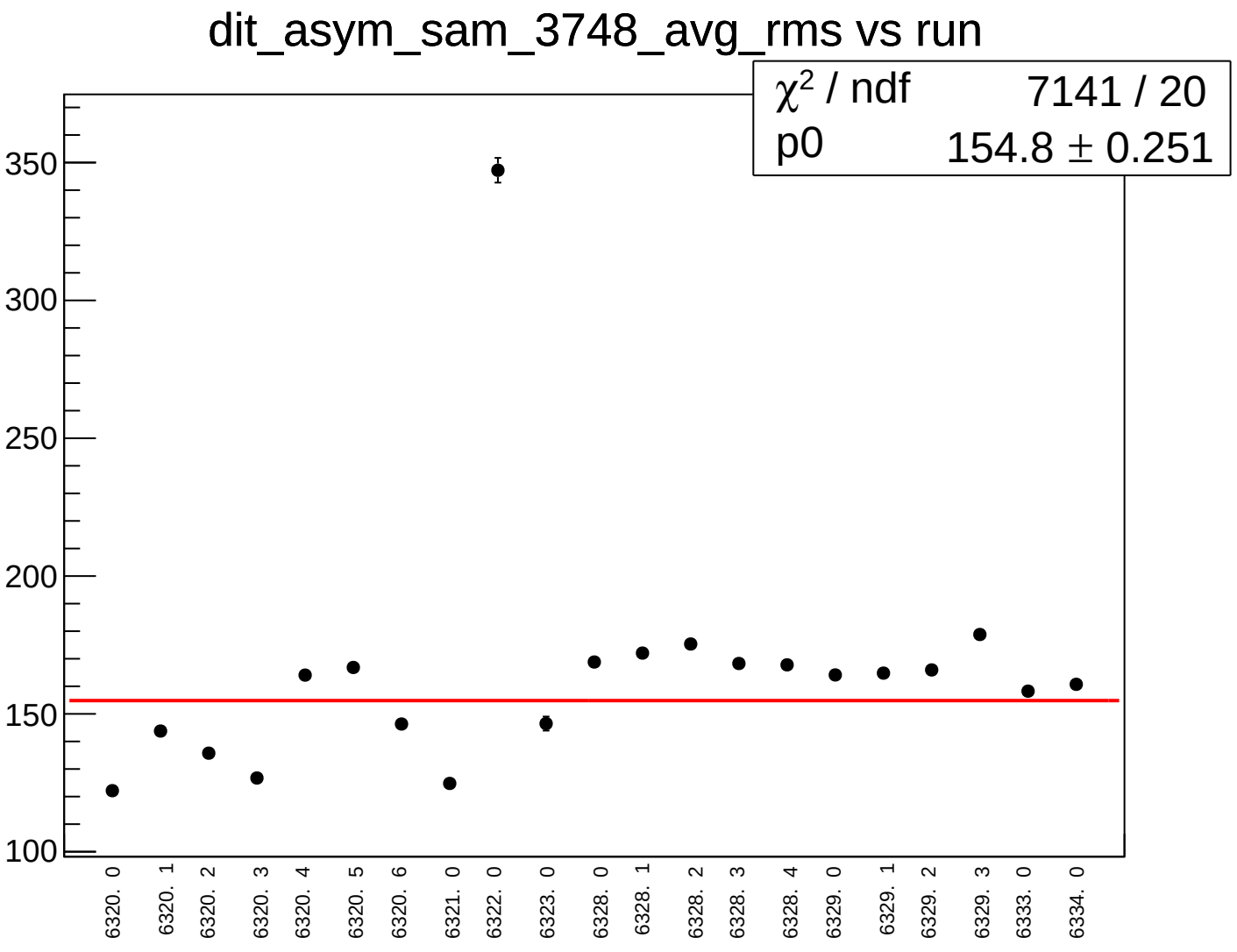

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

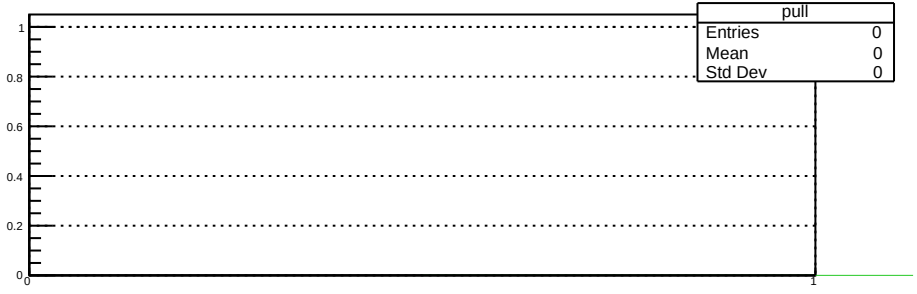

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

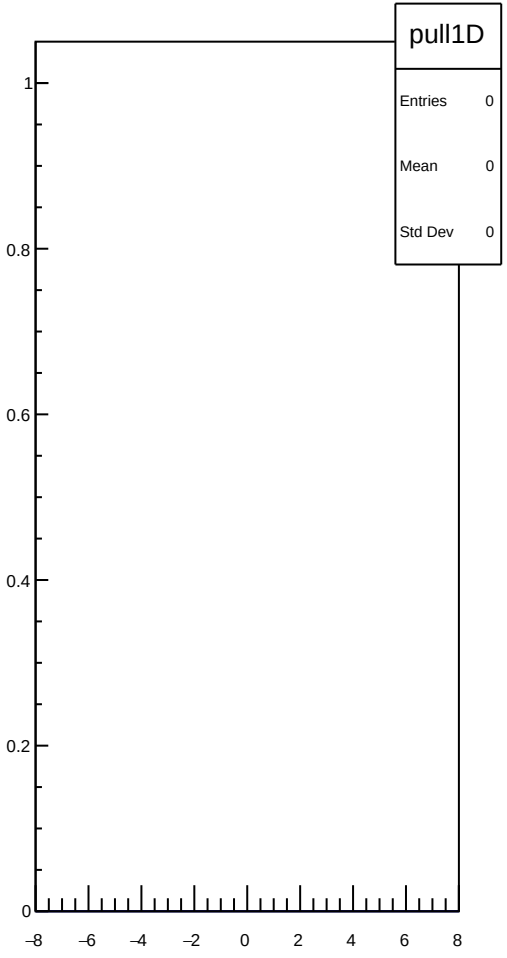

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

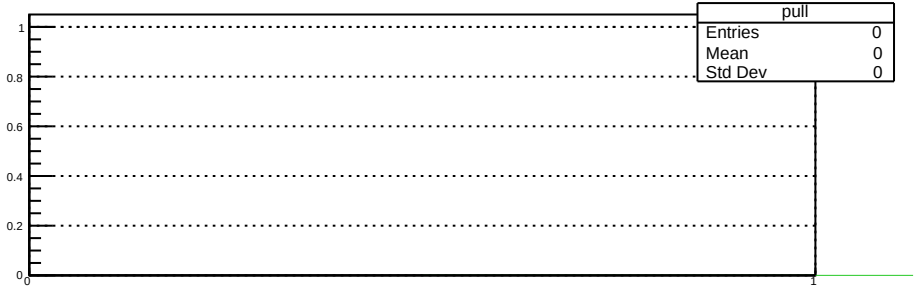

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 11.53 / 20
p0 202.1 ± 355
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.54
Std Dev 26.91
1
0.5
0
−0.5
−1
−1.5

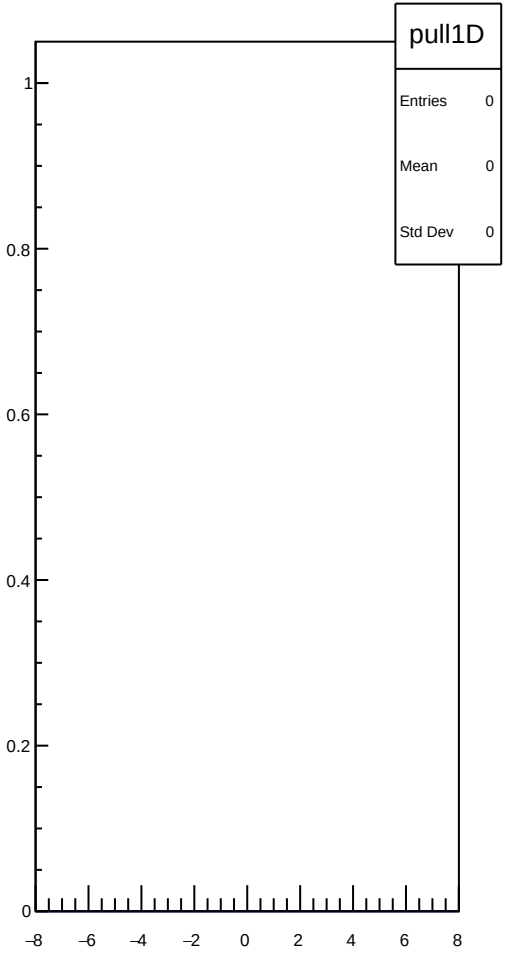

pull1D
Entries 21
Mean −0.04578
Std Dev 0.7396
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

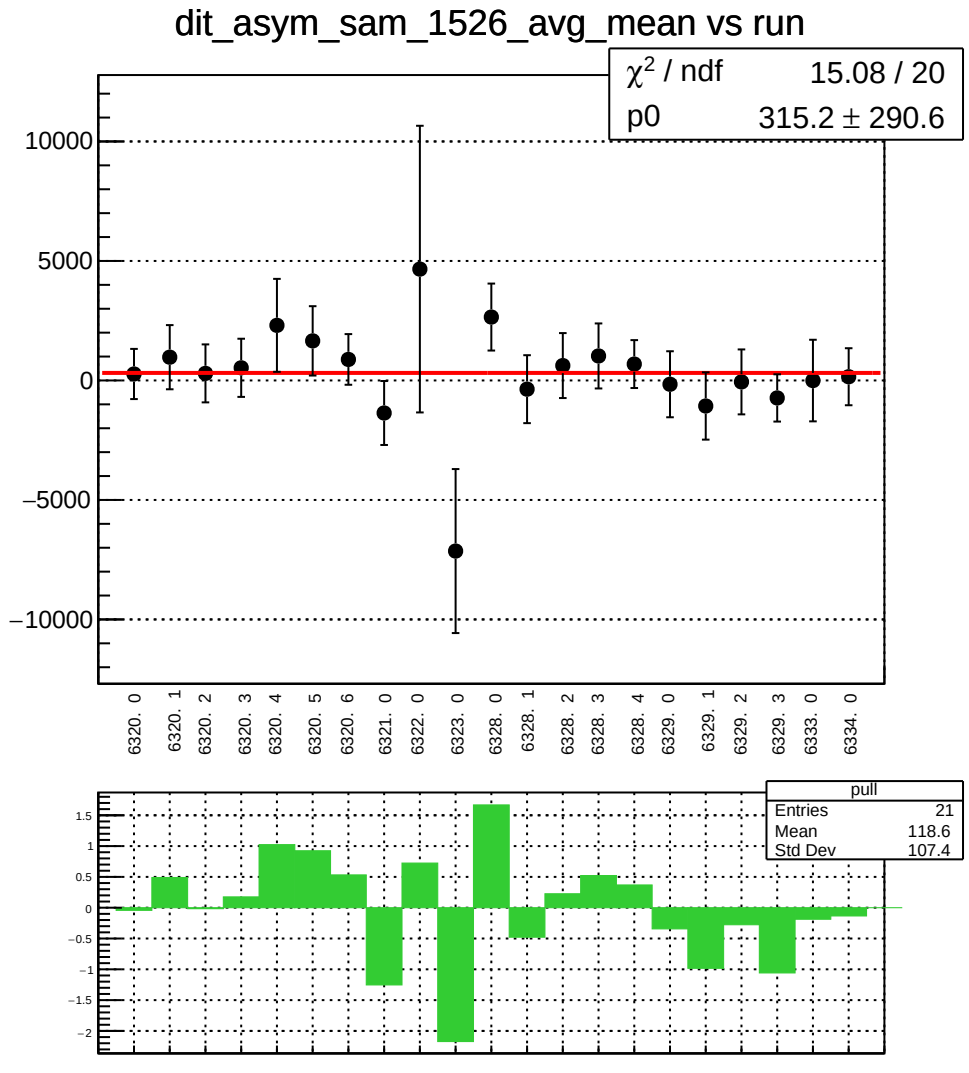

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 7141 / 20
p0 154.8 ± 0.251
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

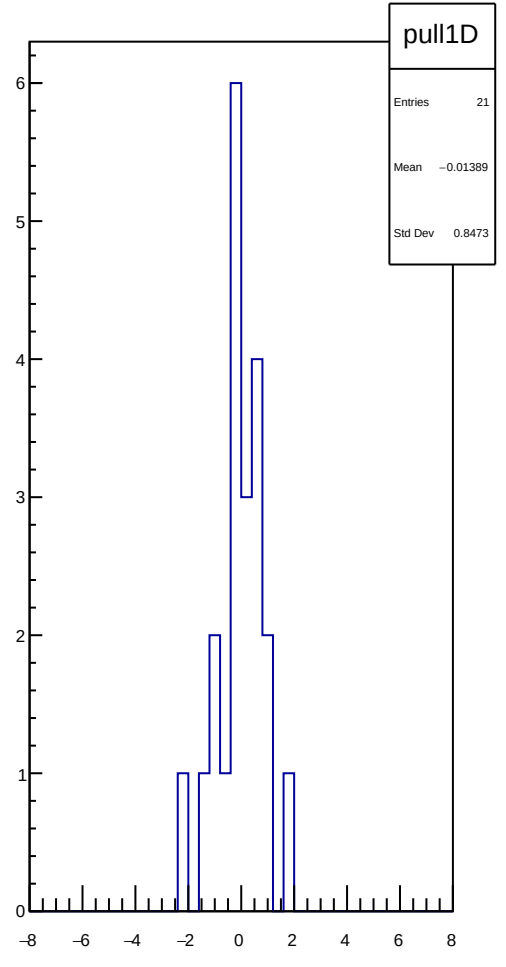

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

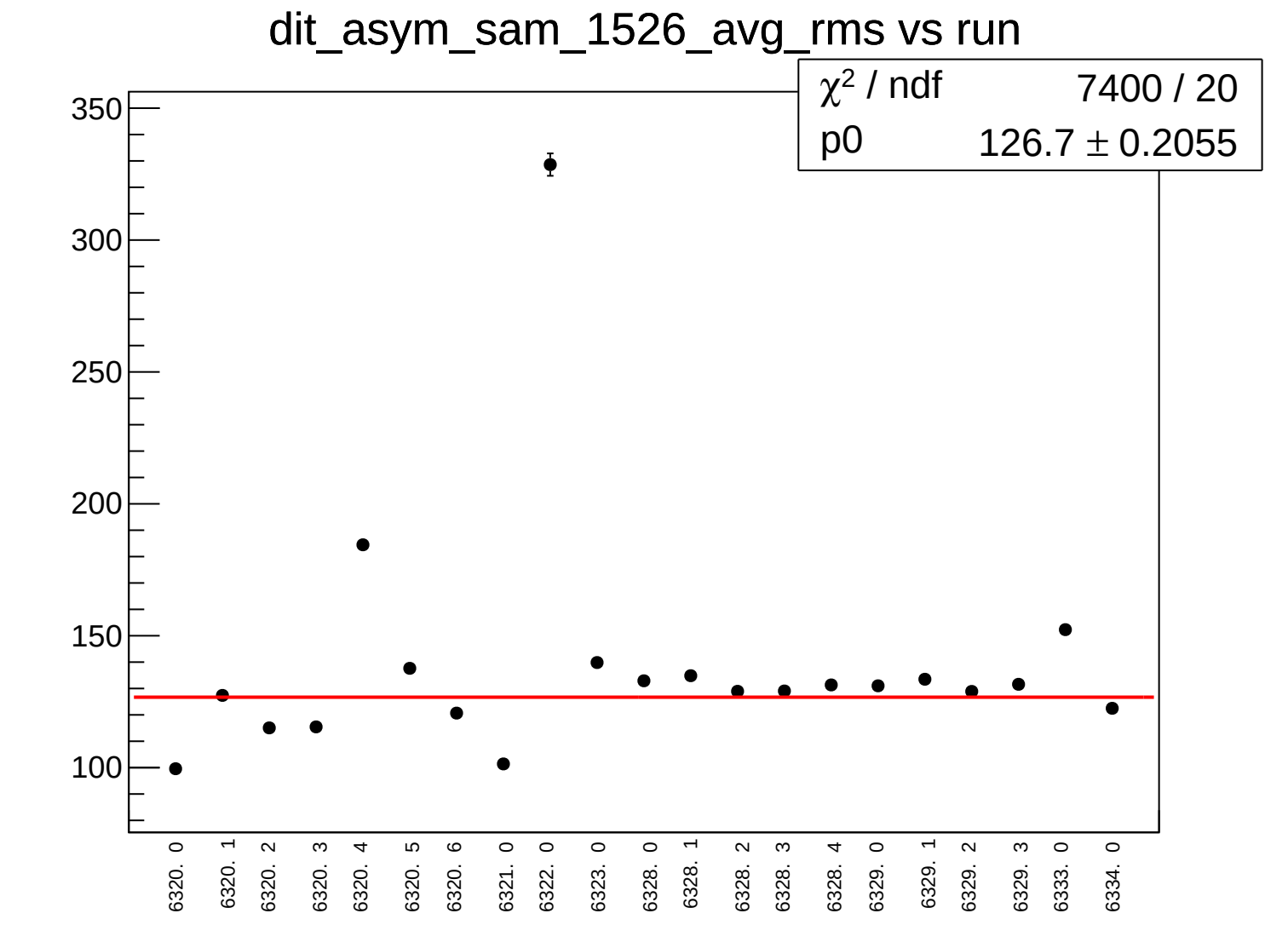

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

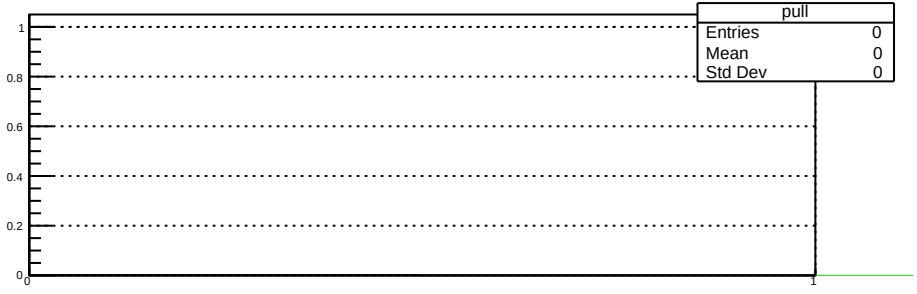

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

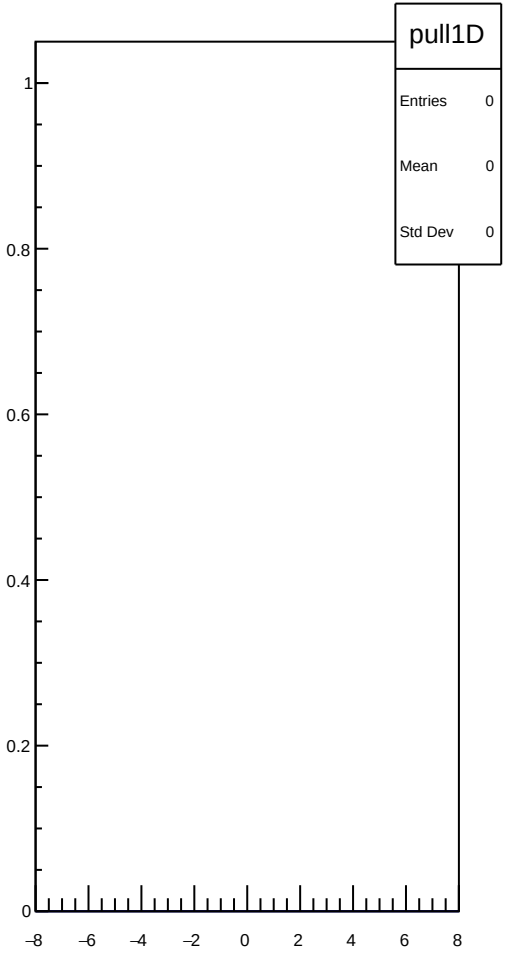

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

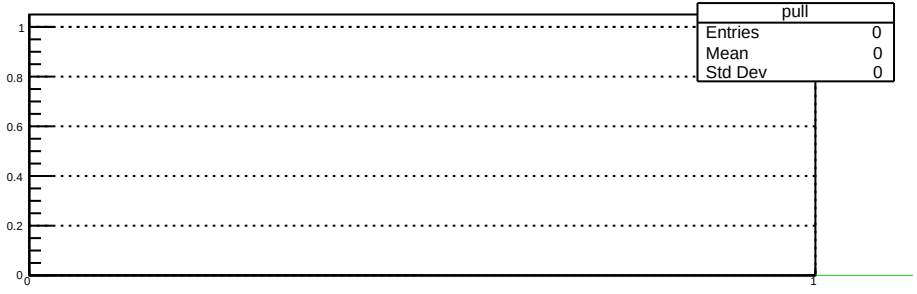

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 15.08 / 20
p0 315.2 ± 290.6
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 118.6
Std Dev 107.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

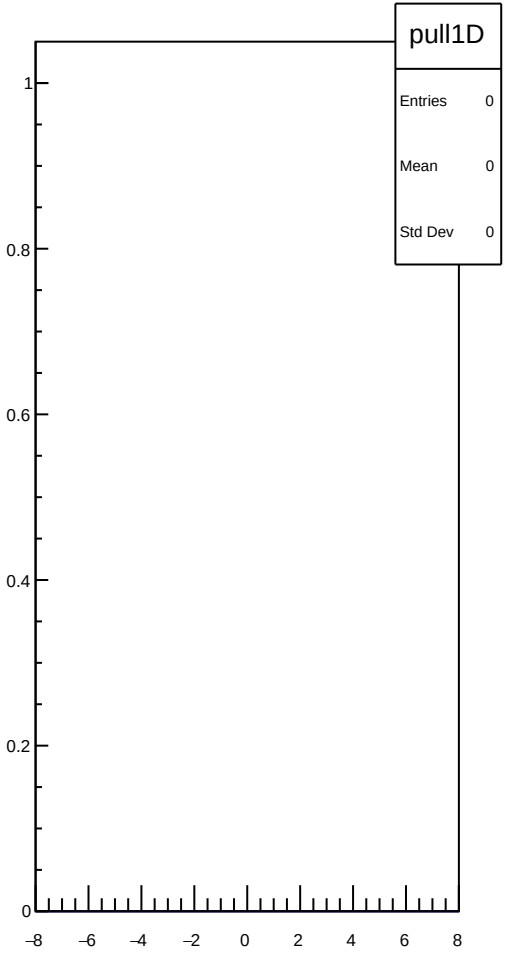

pull1D
Entries 21
Mean −0.01389
Std Dev 0.8473
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

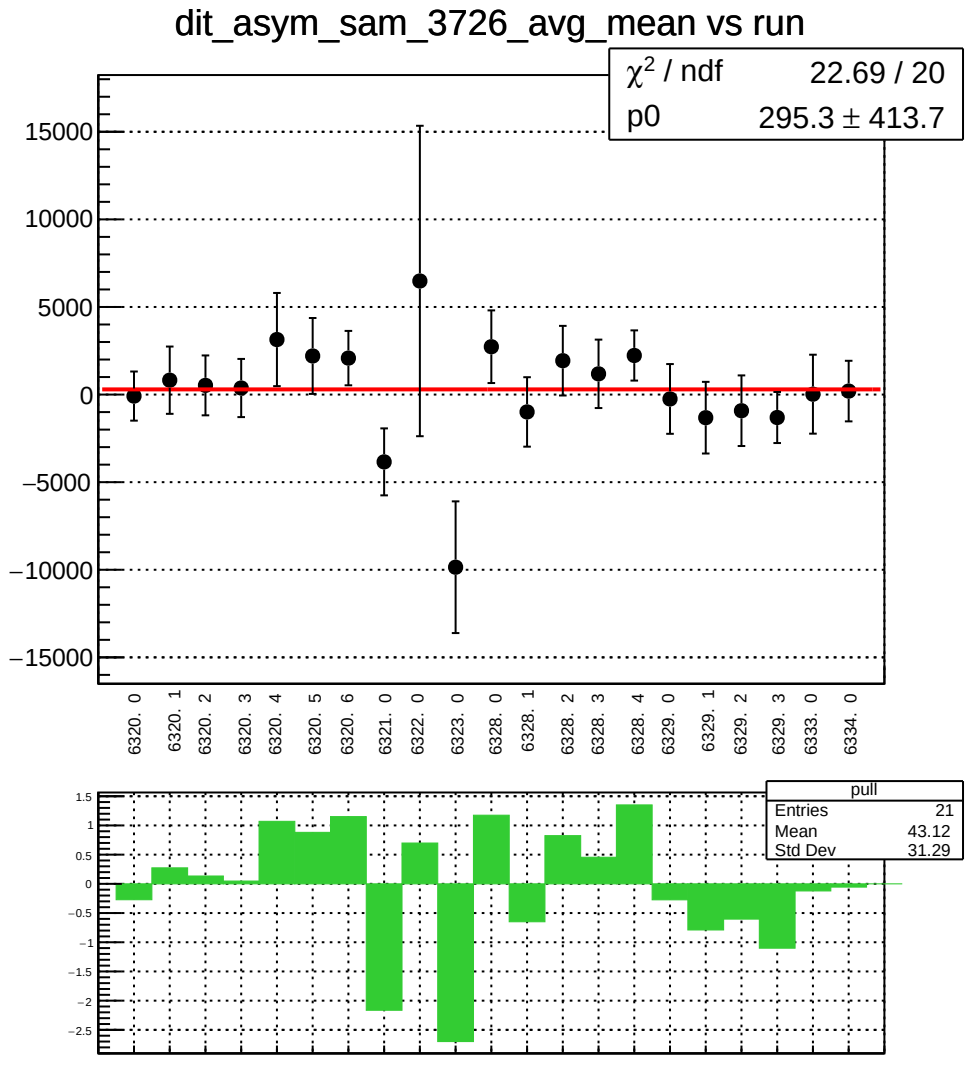

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 7400 / 20
p0 126.7 ± 0.2055
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

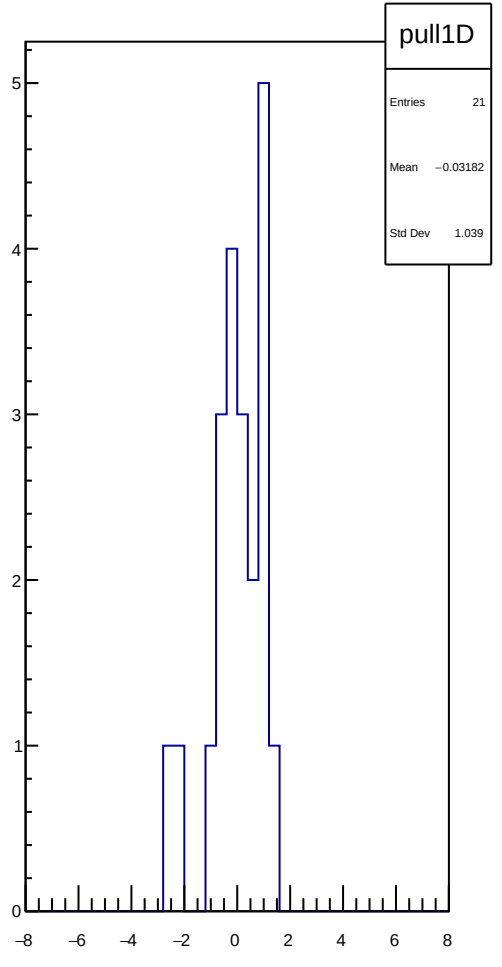

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

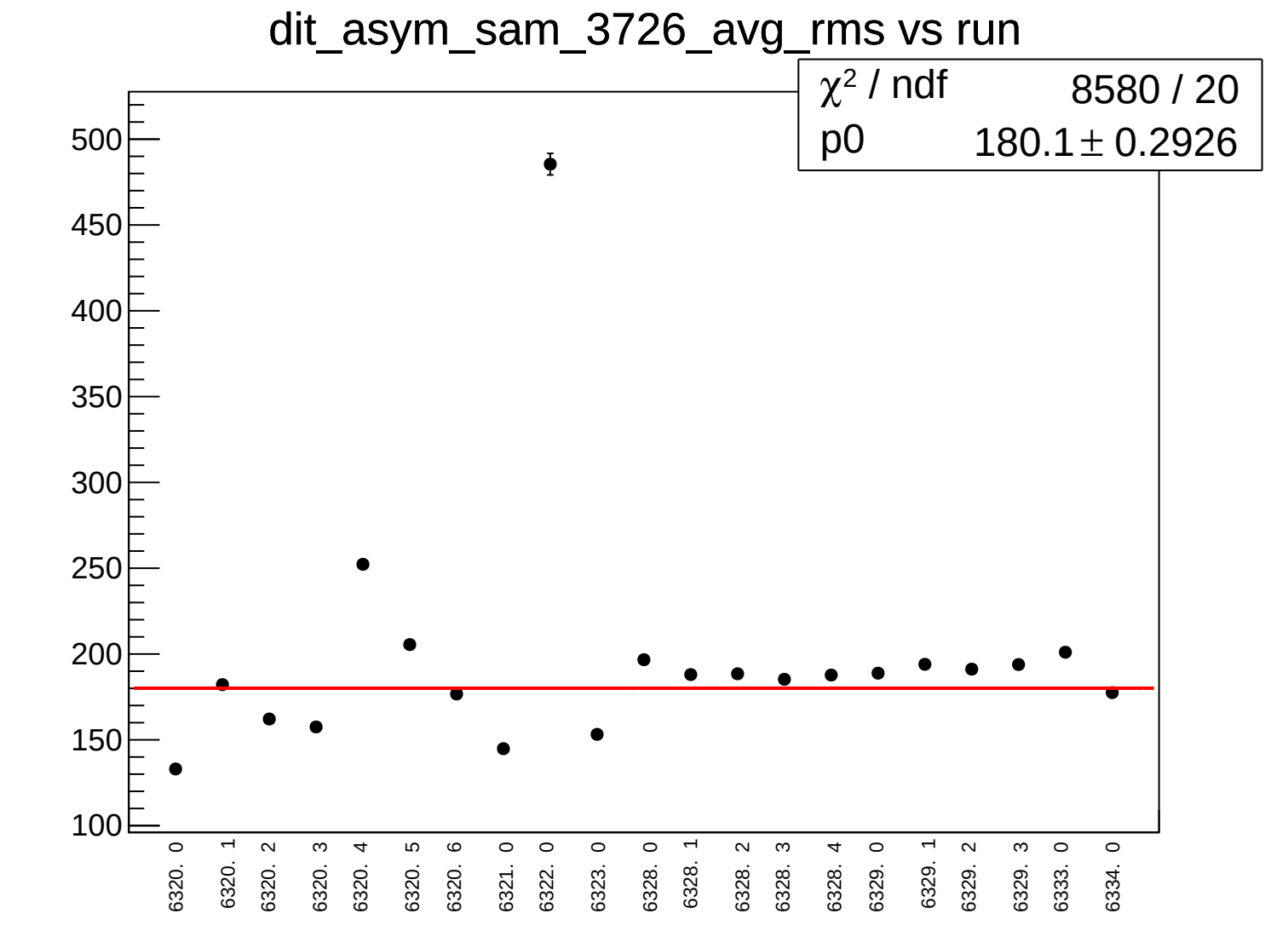

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

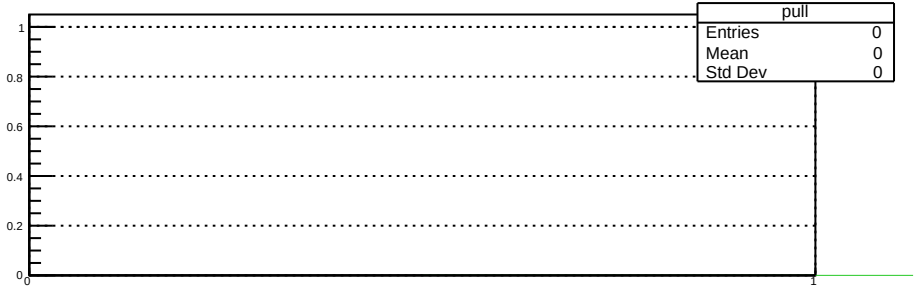

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

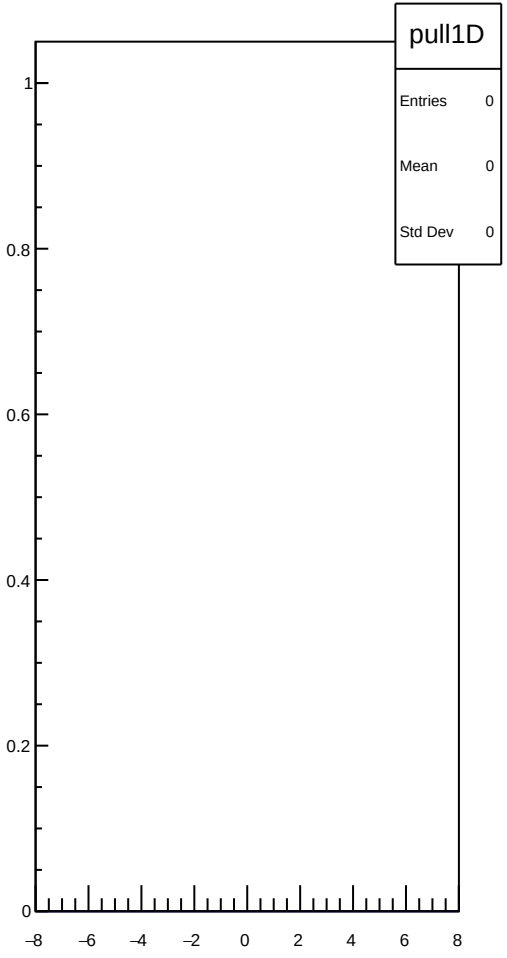

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

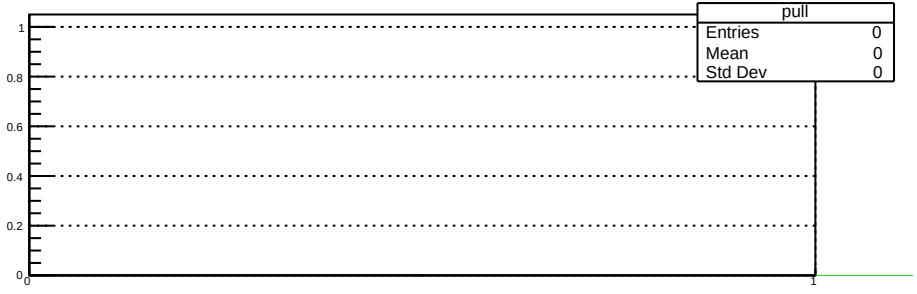

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 22.69 / 20
p0 295.3 ± 413.7
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 43.12
Std Dev 31.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

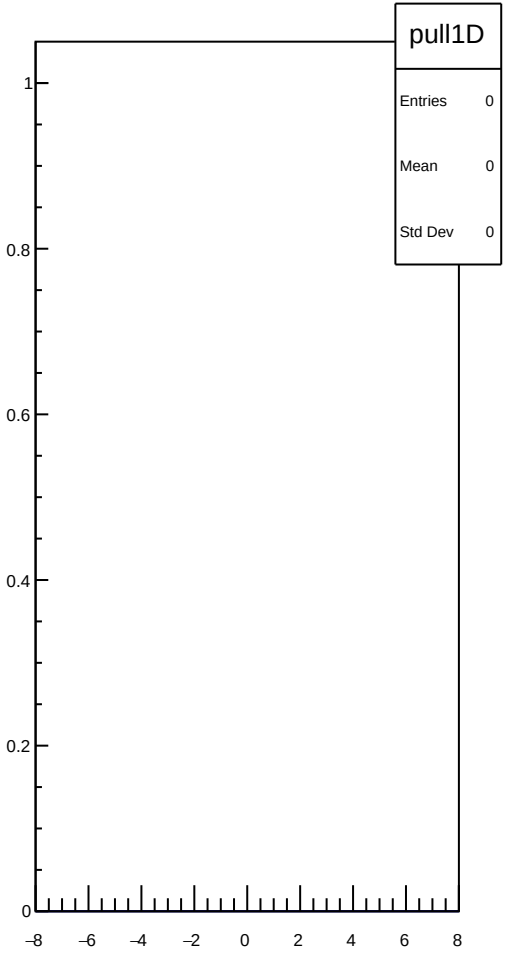

pull1D
Entries 21
Mean −0.03182
Std Dev 1.039
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

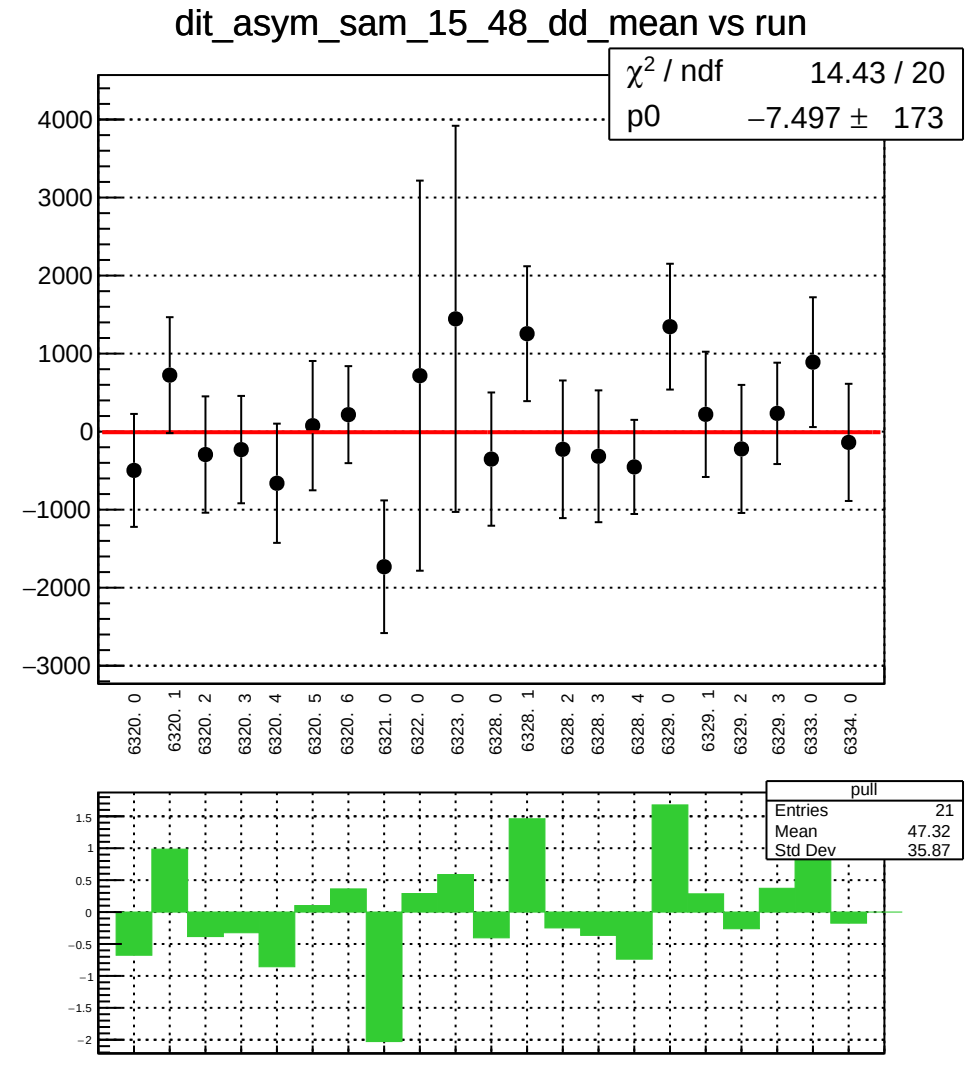

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 8580 / 20
p0 180.1 ± 0.2926
500
450
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

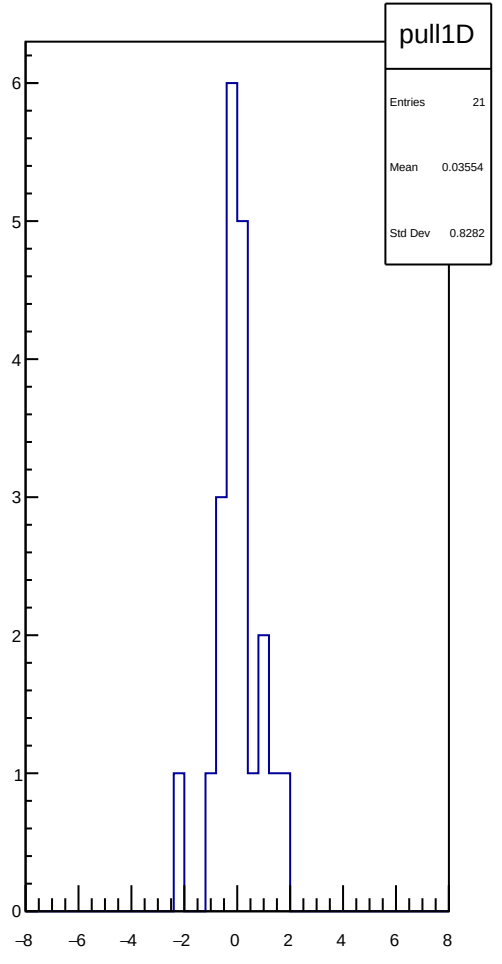

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

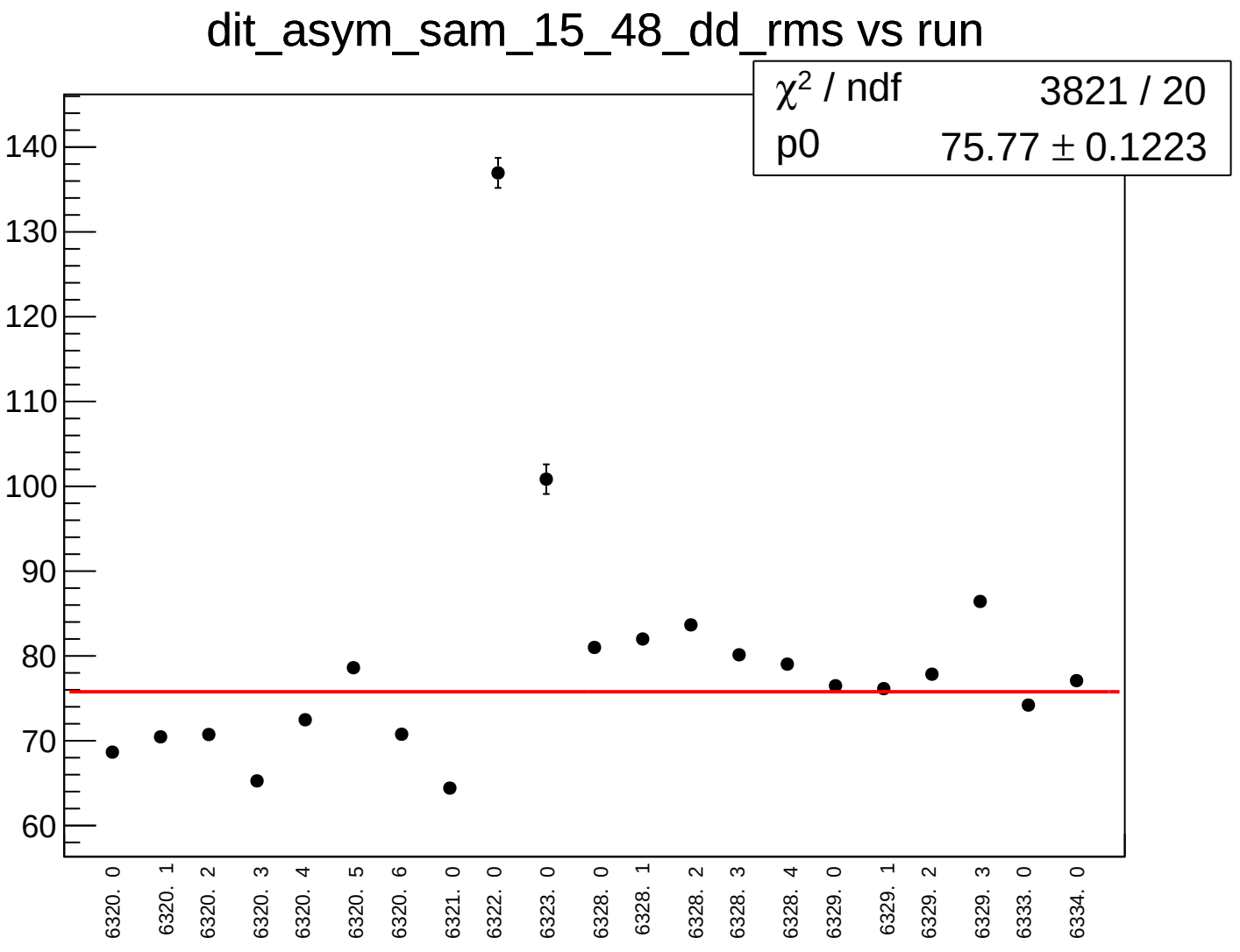

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

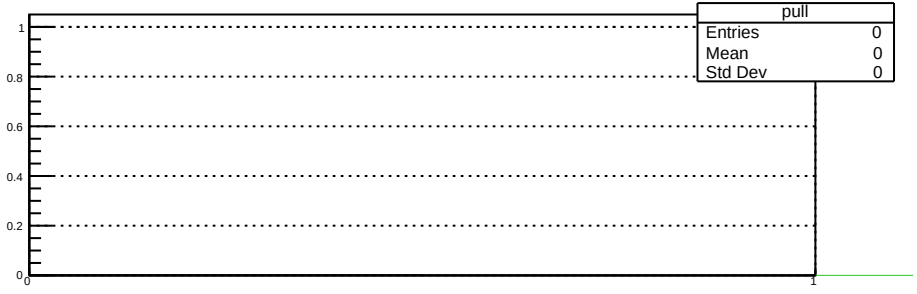

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

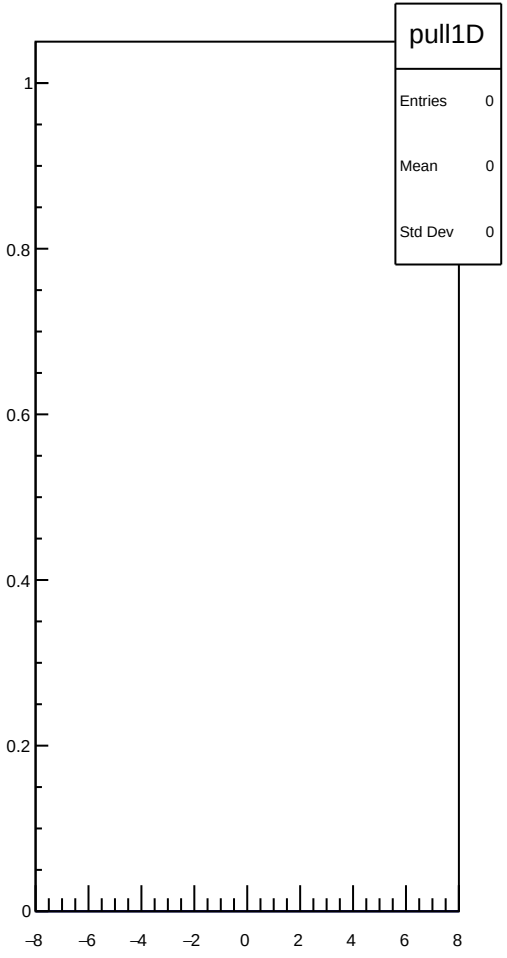

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

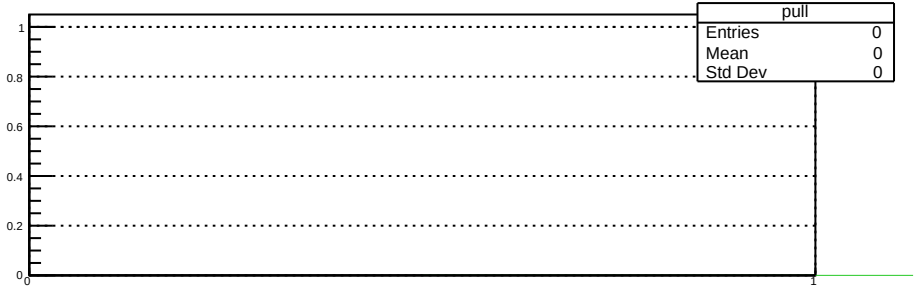

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 14.43 / 20
p0 −7.497 ± 173
4000
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 47.32
Std Dev 35.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2

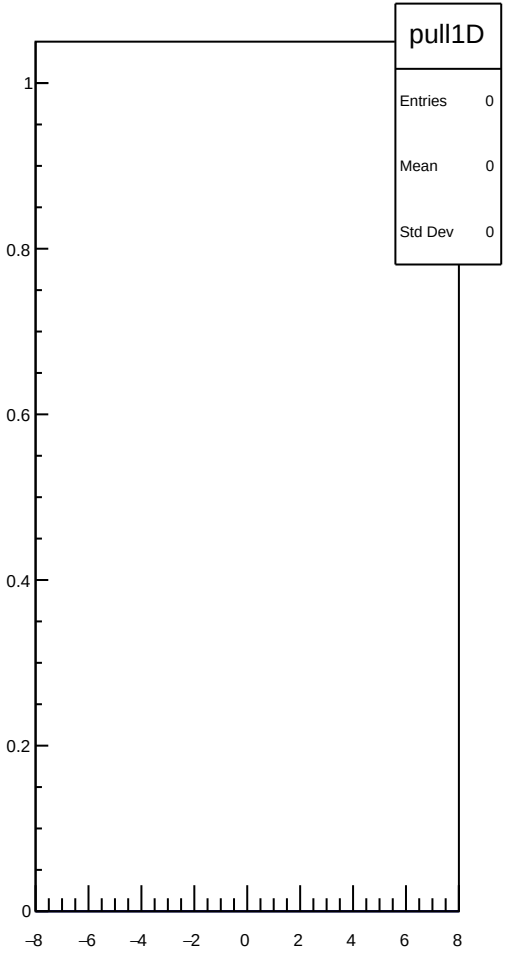

pull1D
Entries 21
Mean 0.03554
Std Dev 0.8282
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

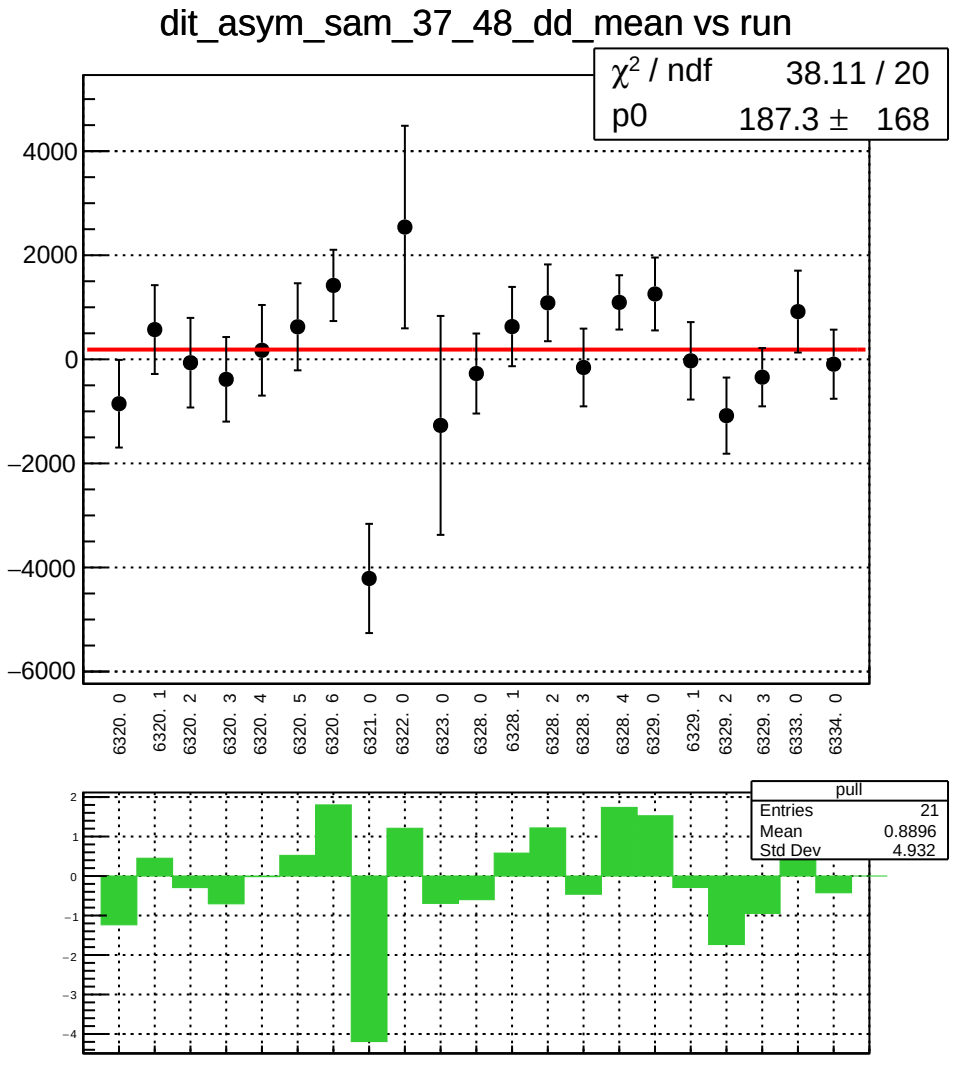

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3821 / 20
p0 75.77 ± 0.1223
140
130
120
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

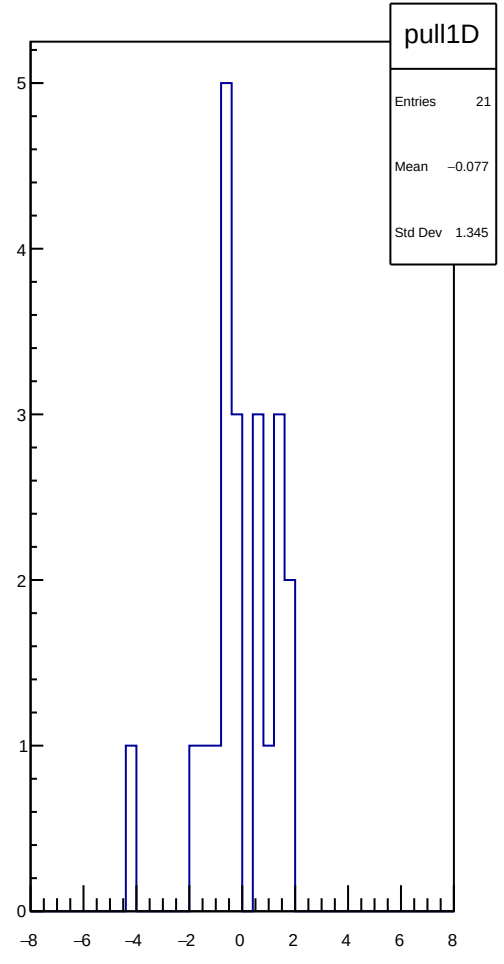

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

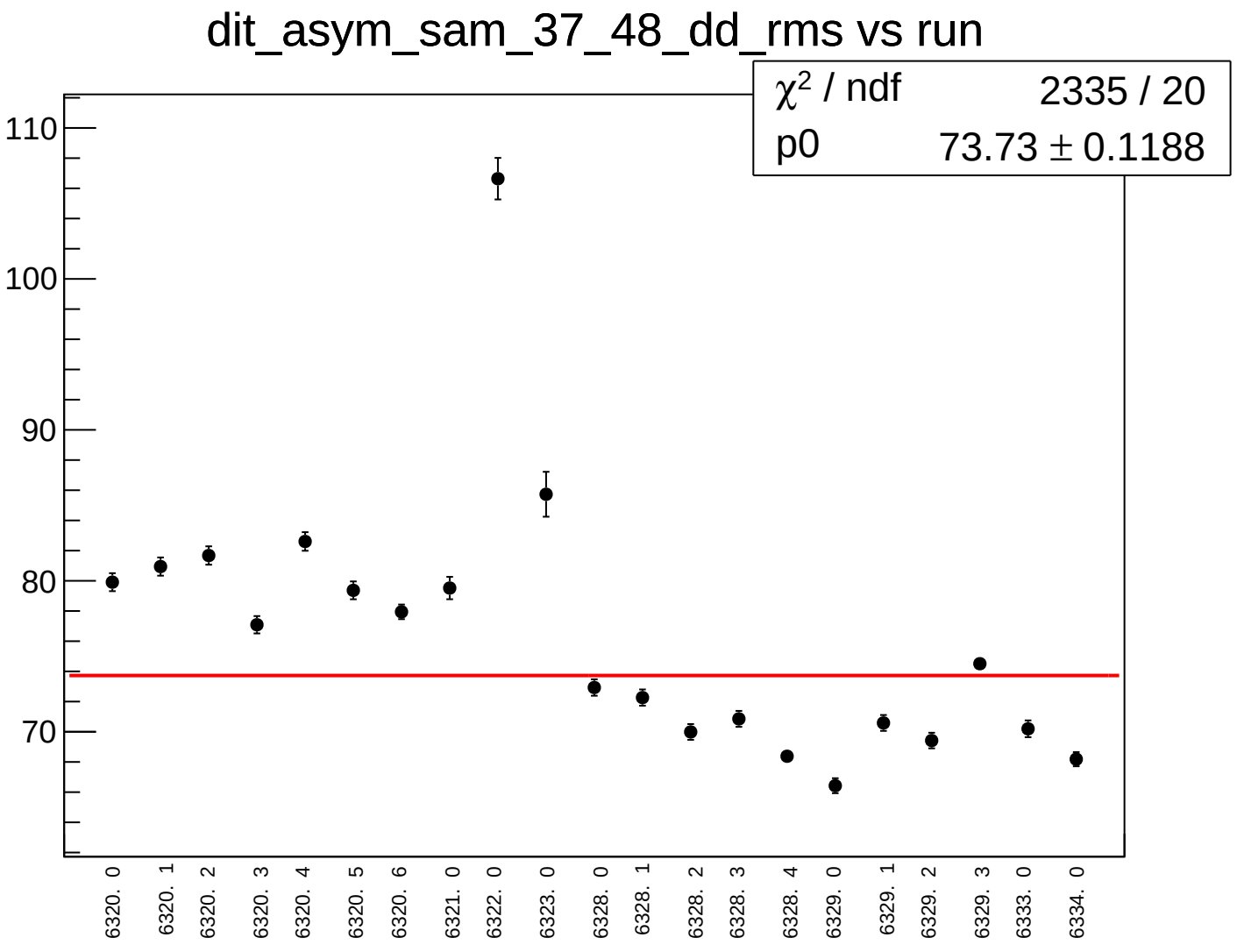

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

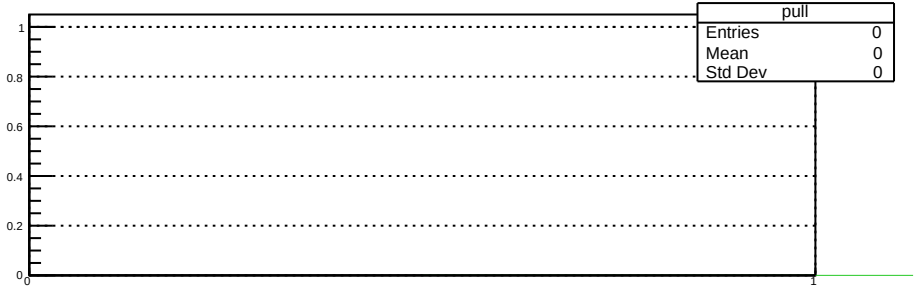

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

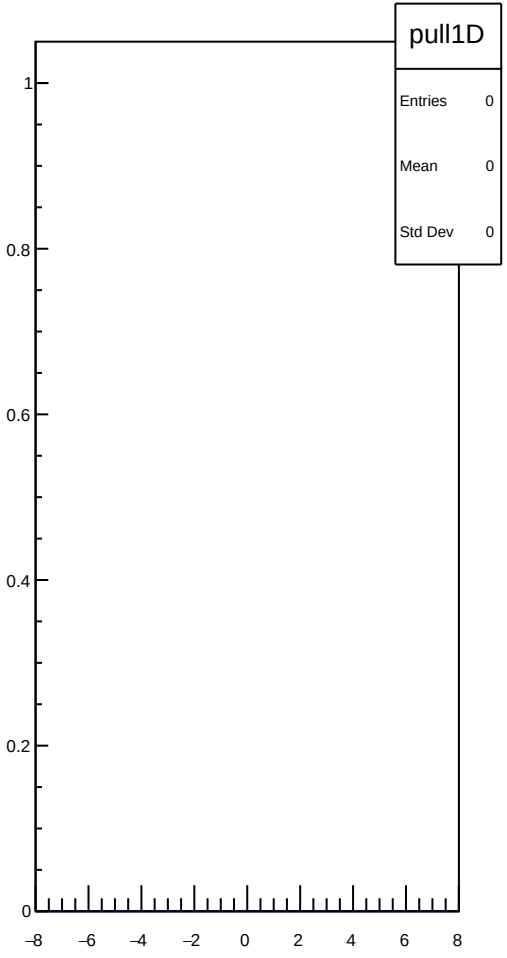

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

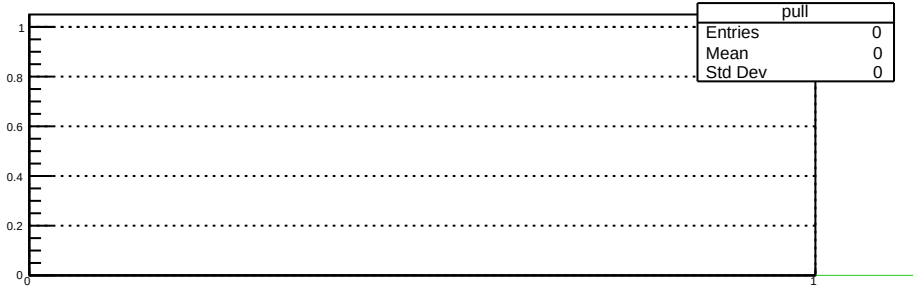

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 38.11 / 20
p0 187.3 ± 168
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.8896
Std Dev 4.932
2
1
0
−1
−2
−3
−4

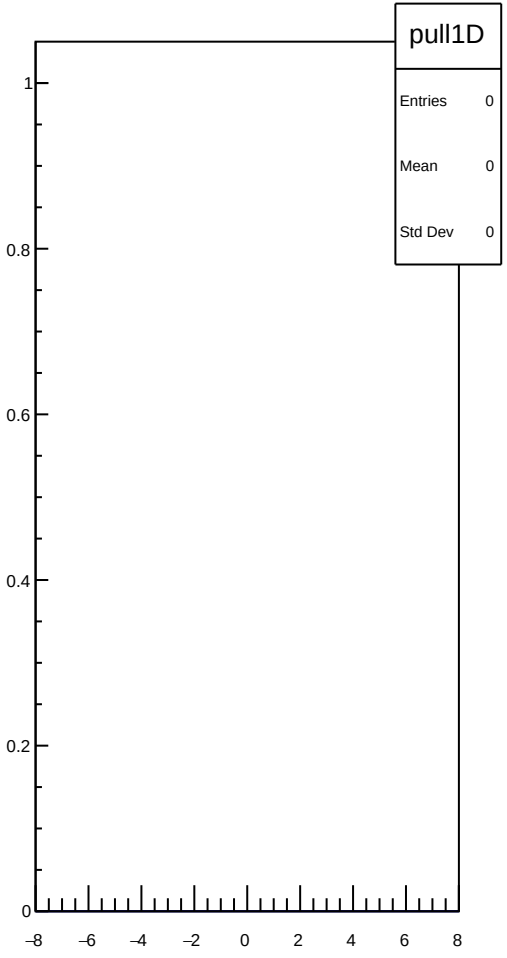

pull1D
Entries 21
Mean −0.077
Std Dev 1.345
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

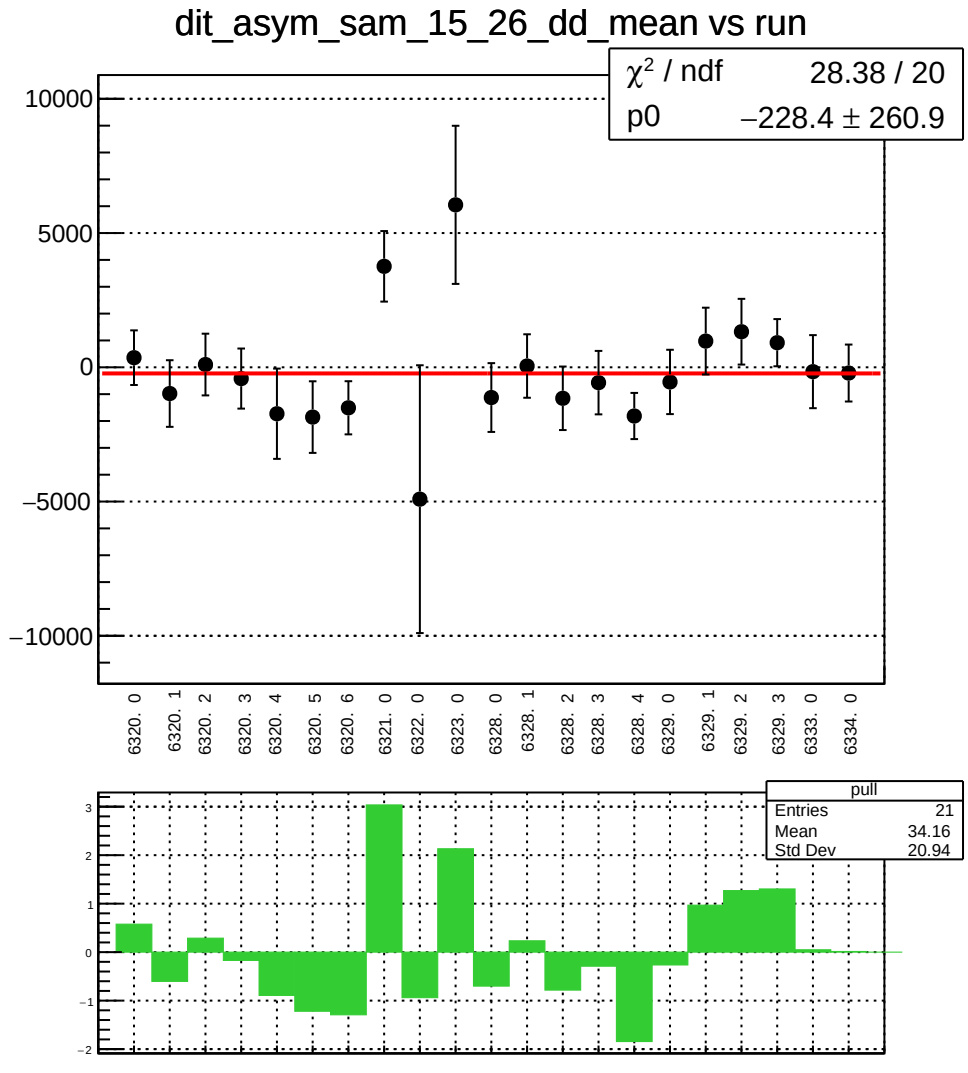

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2335 / 20
p0 73.73 ± 0.1188
110
100
90
80
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

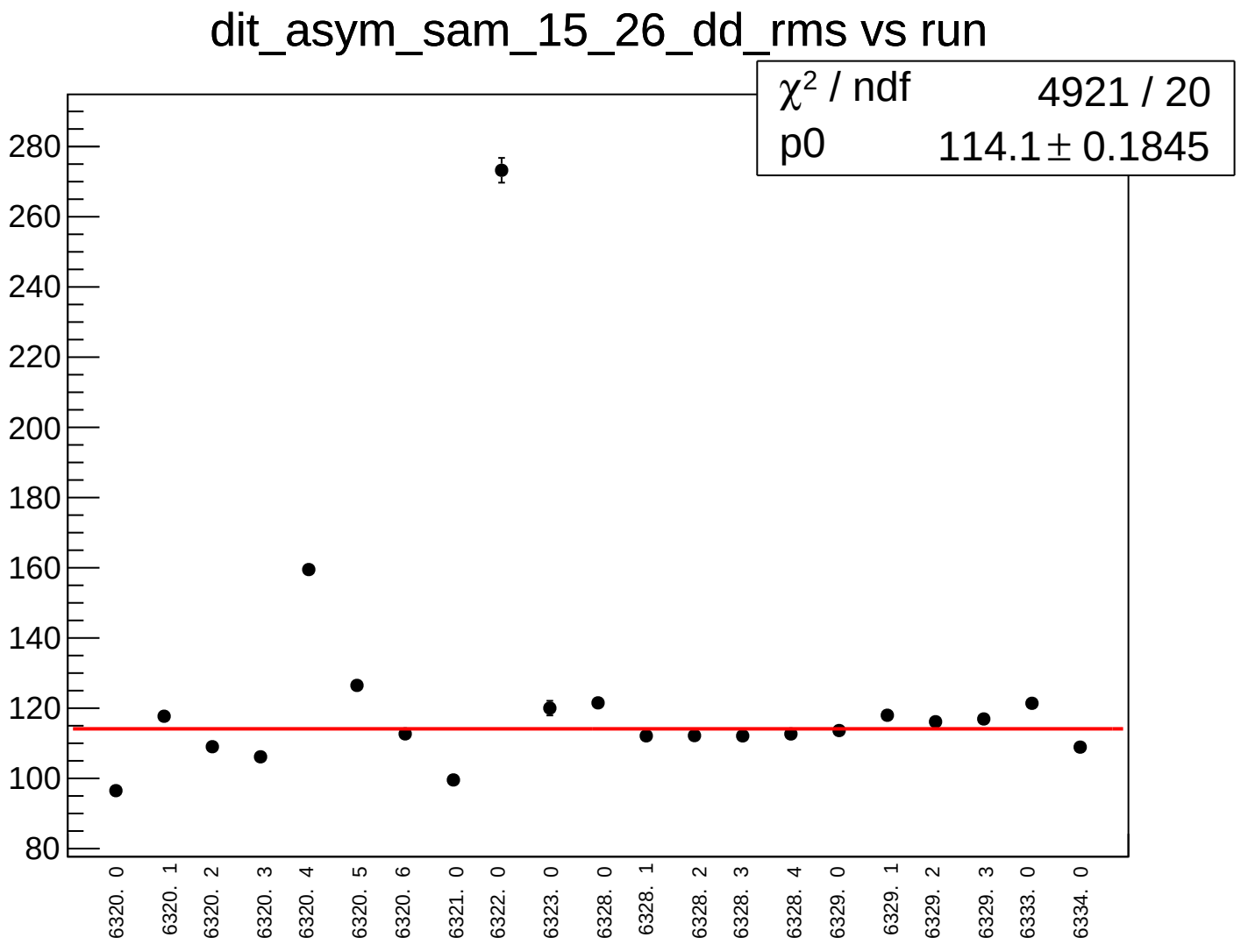

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

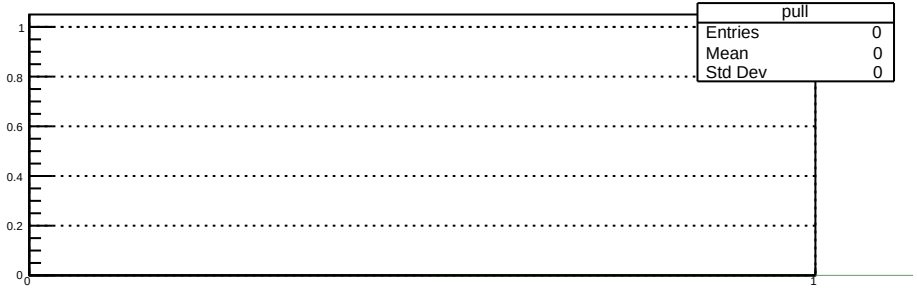

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

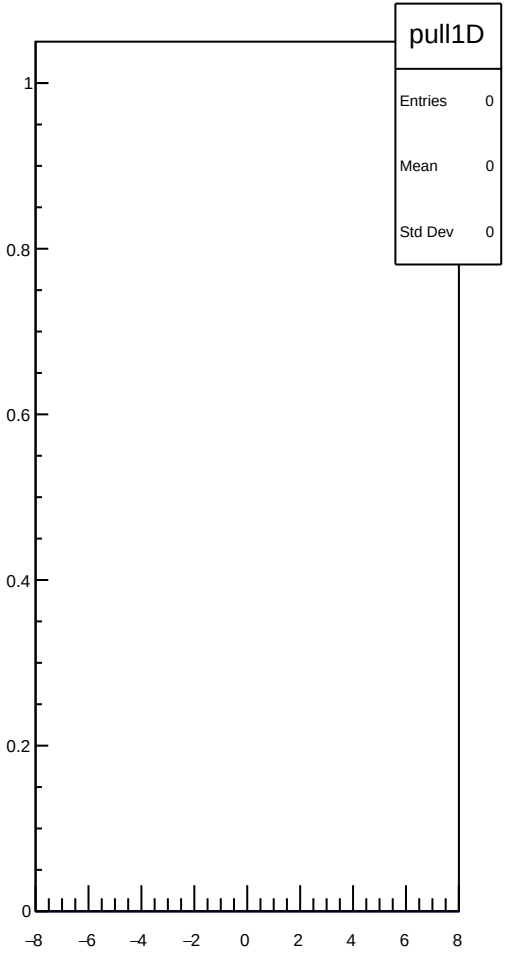

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

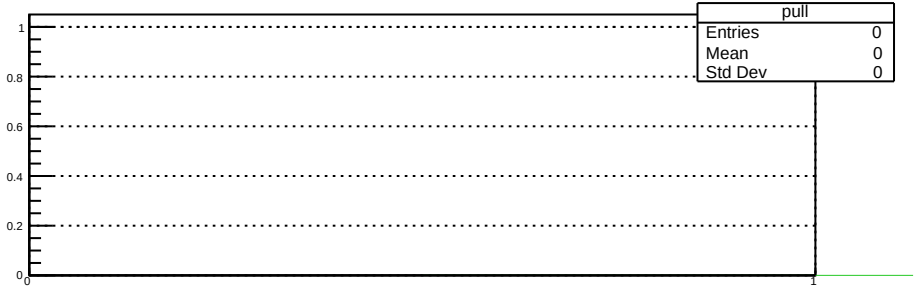

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

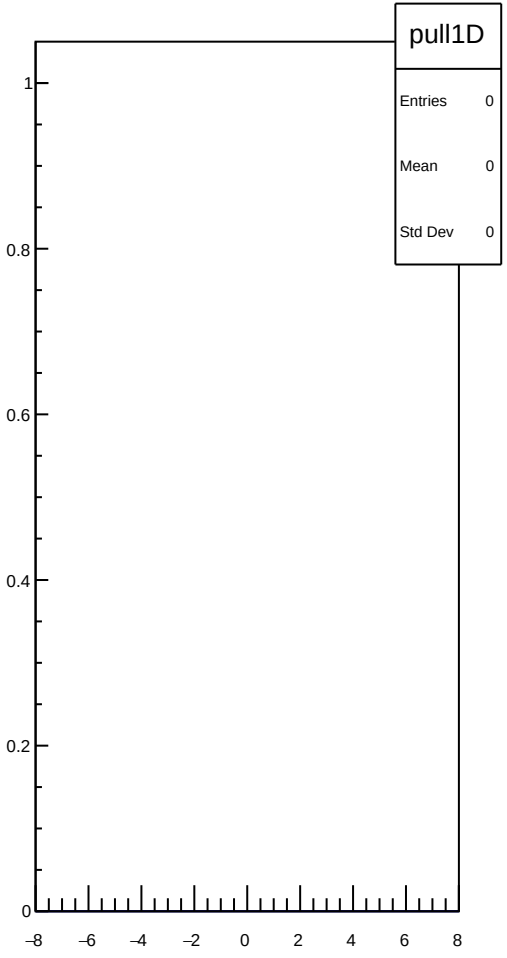

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 28.38 / 20
p0 −228.4 ± 260.9
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 34.16
Std Dev 20.94
3
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.04149
Std Dev 1.162
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

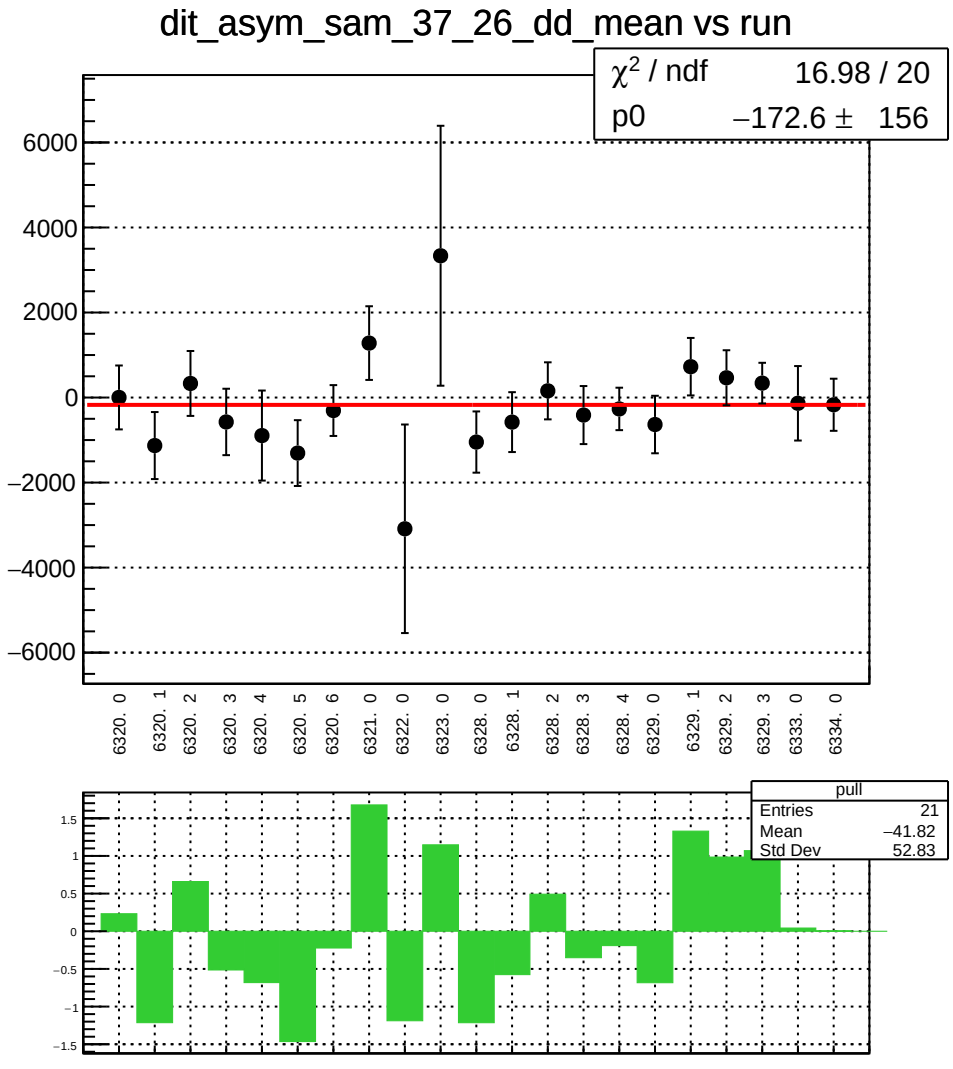

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 4921 / 20
p0 114.1 ± 0.1845
280
260
240
220
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

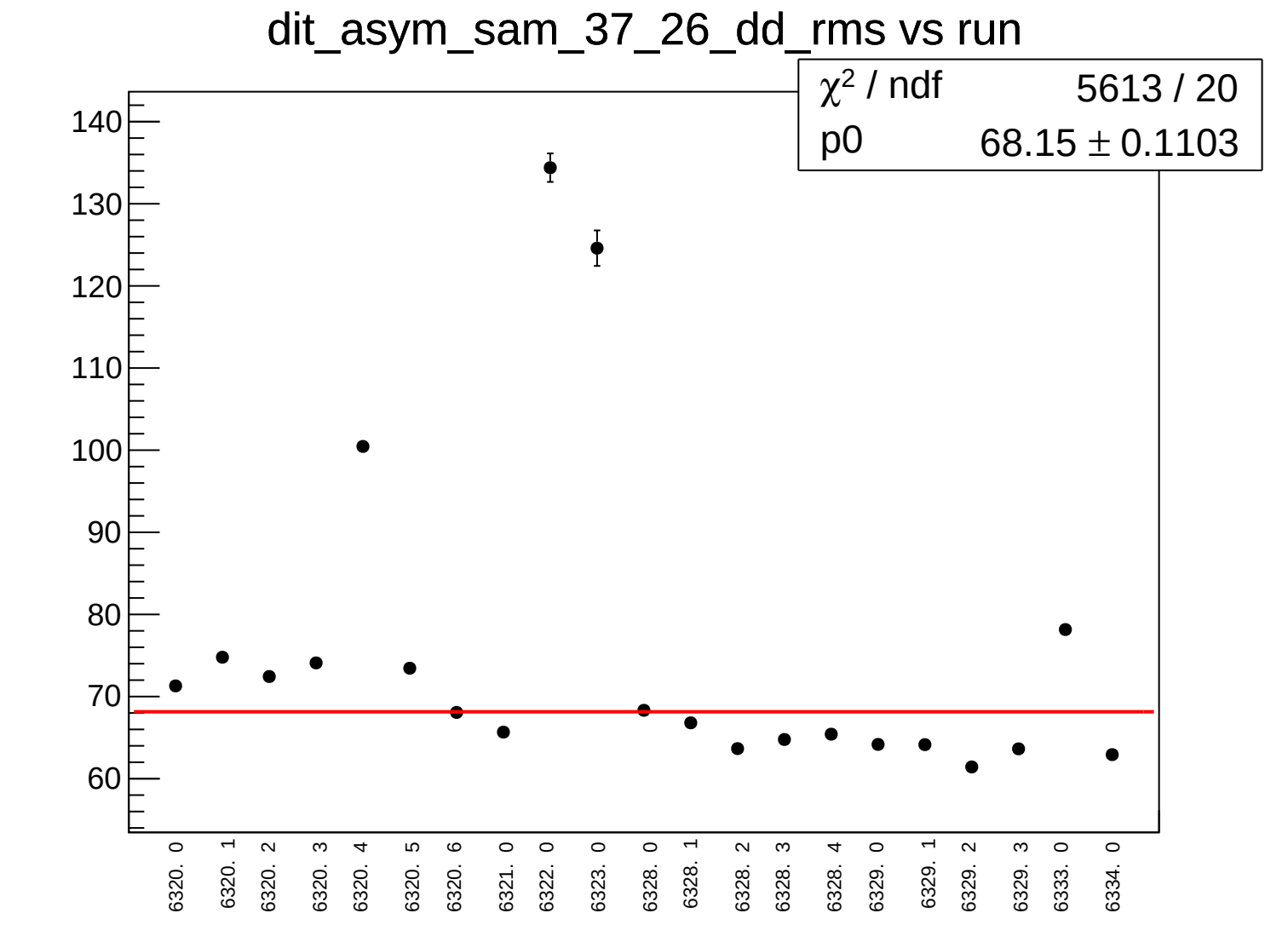

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

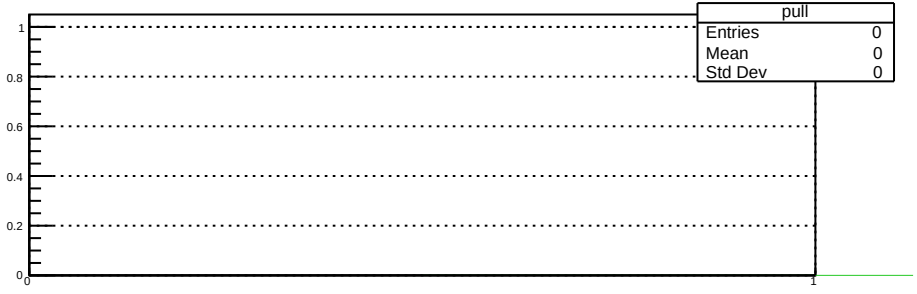

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

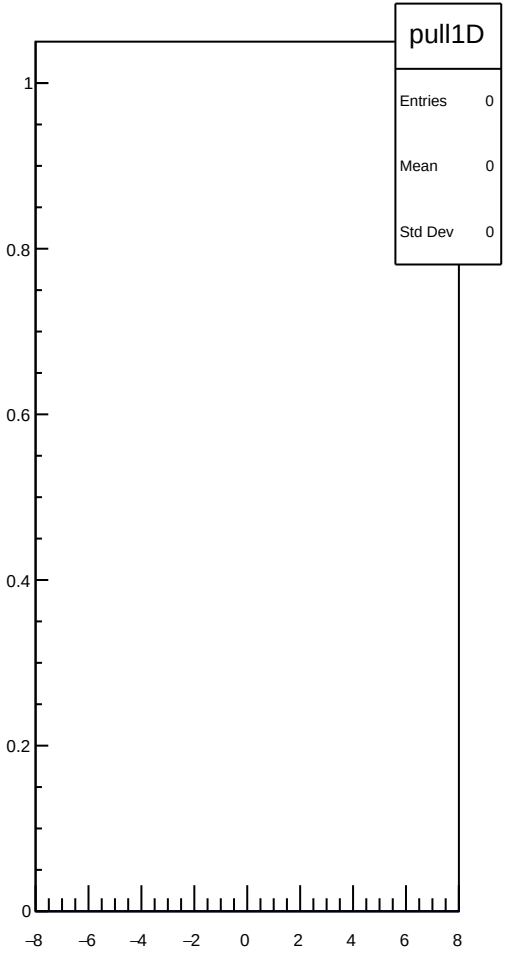

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

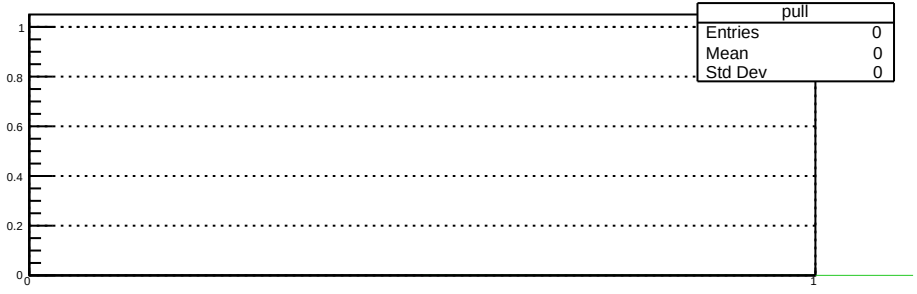

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

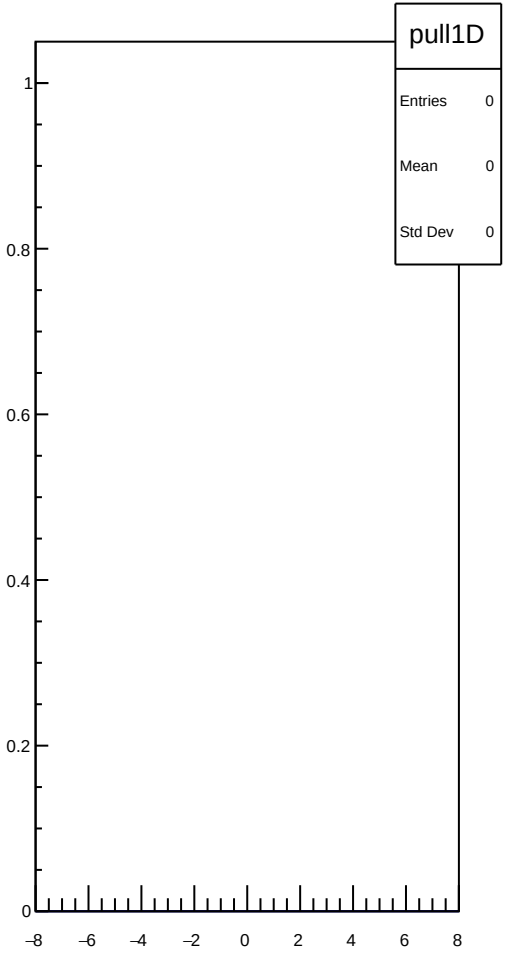

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 16.98 / 20
p0 −172.6 ± 156
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −41.82
Std Dev 52.83
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.03135
Std Dev 0.8988
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

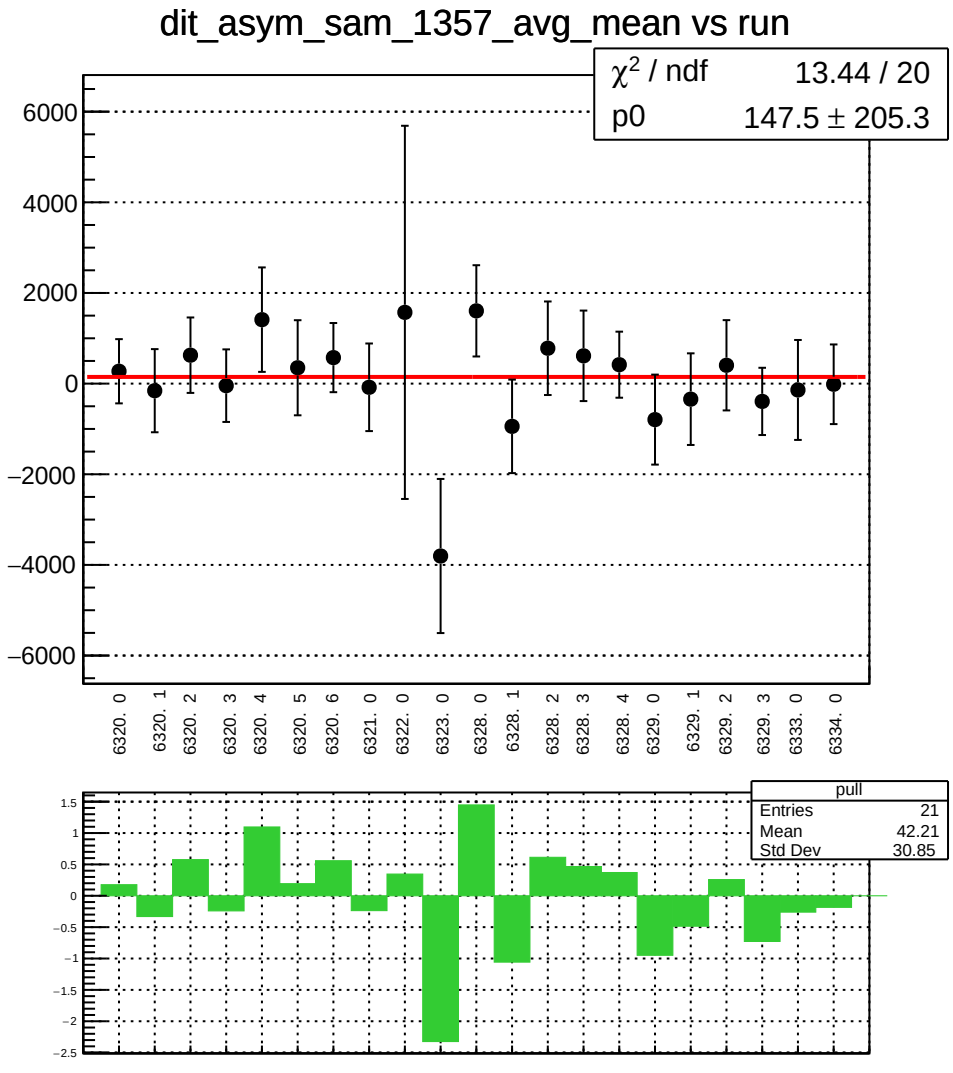

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5613 / 20
p0 68.15 ± 0.1103
140
130
120
110
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

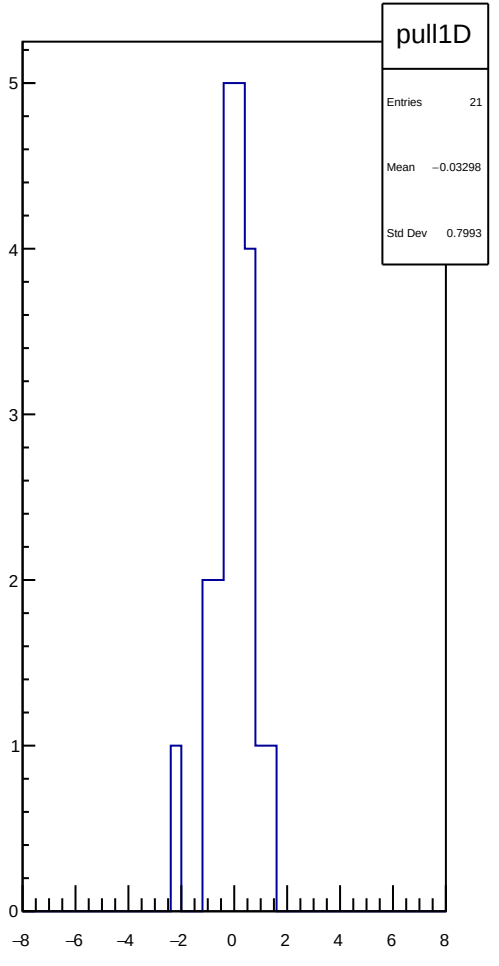

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

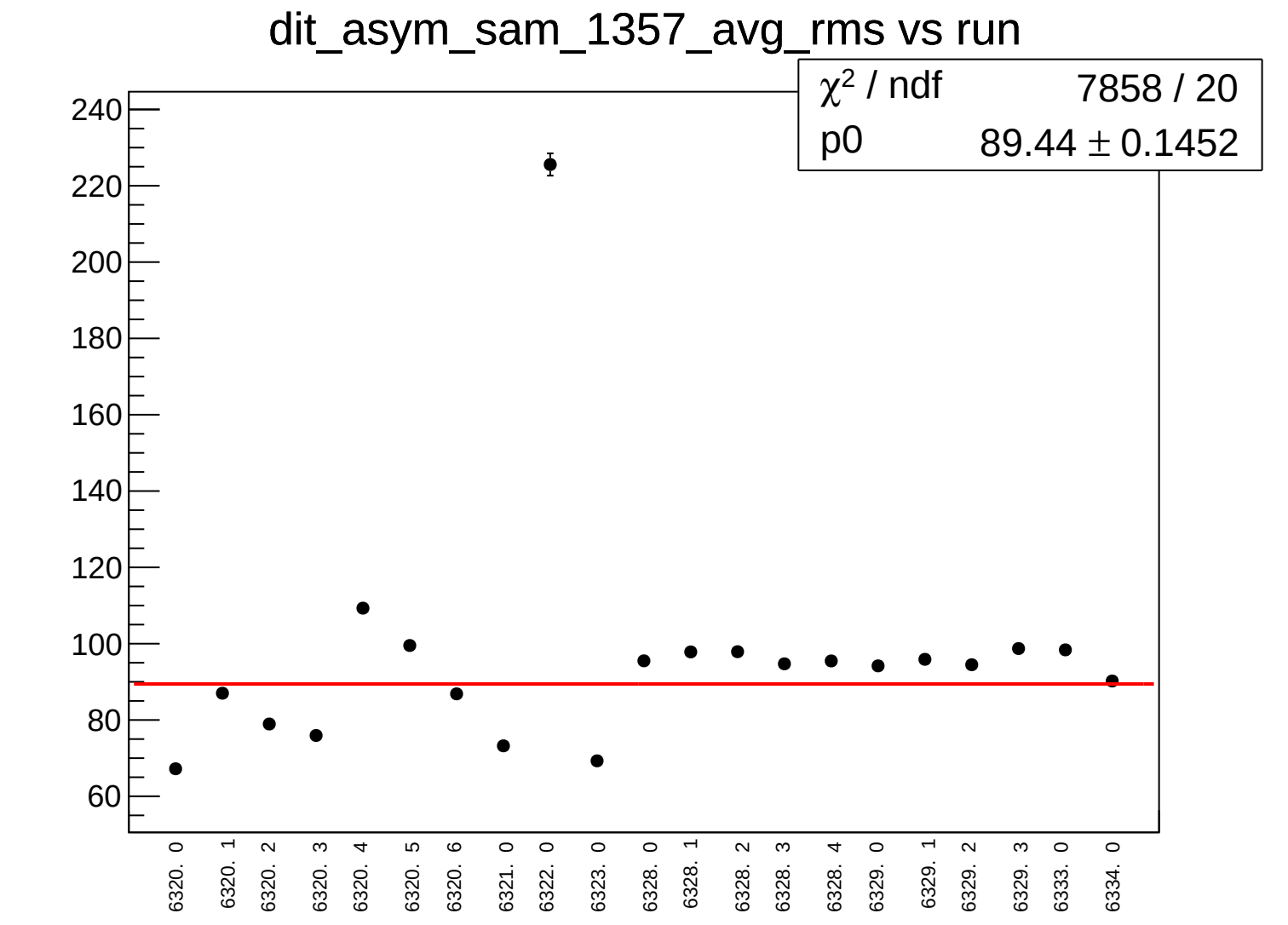

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

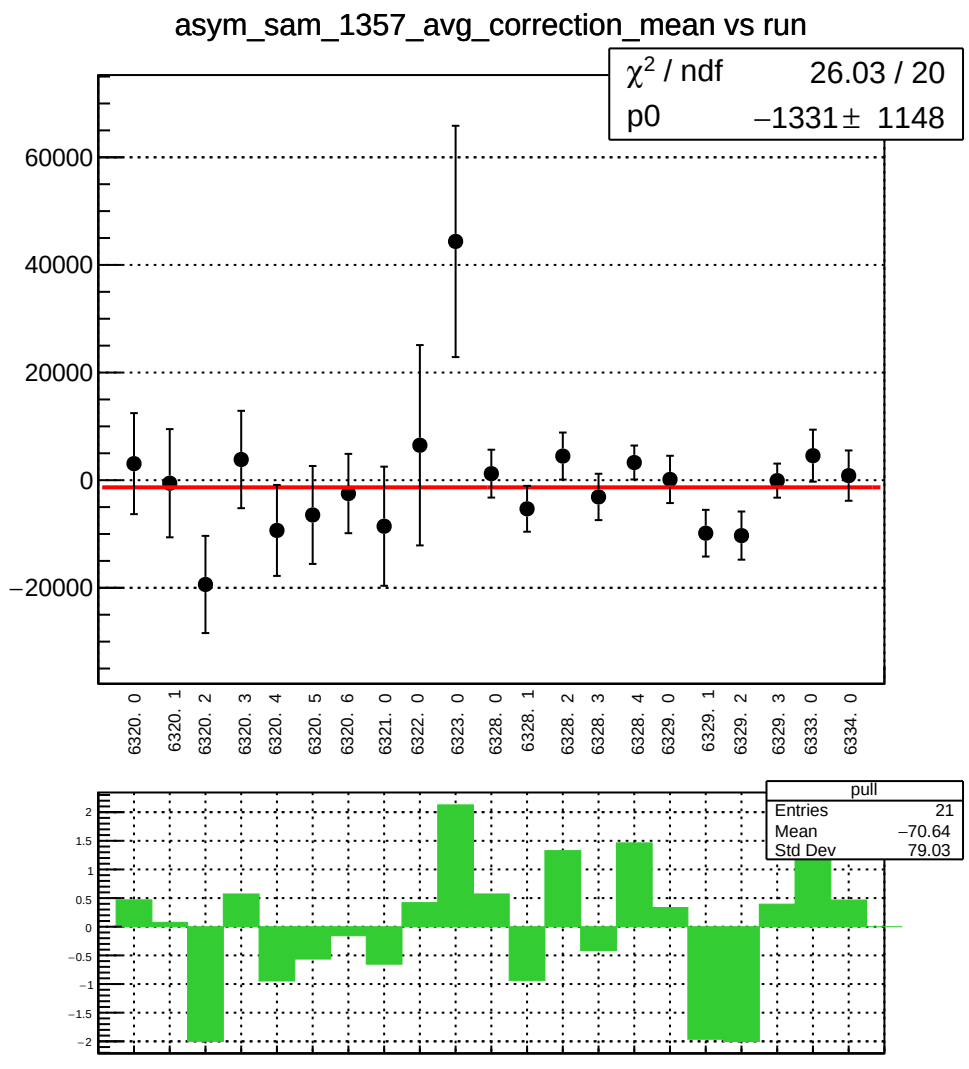

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

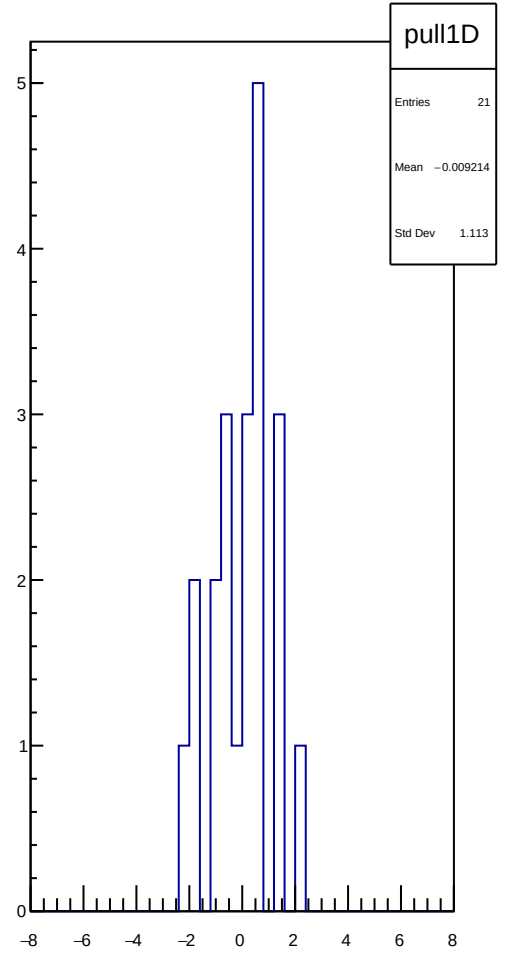

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

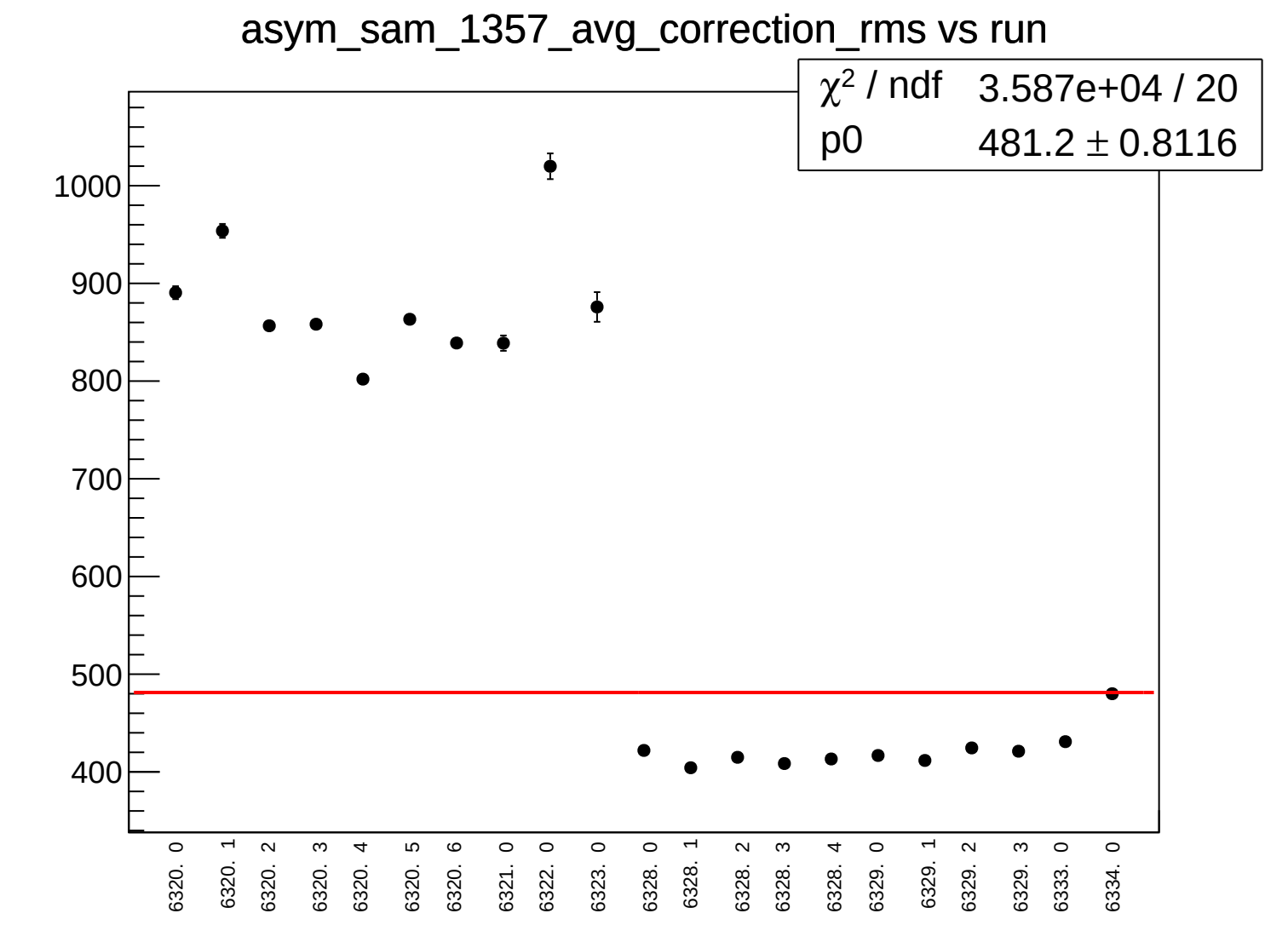

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 13.44 / 20
p0 147.5 ± 205.3
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 42.21
Std Dev 30.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

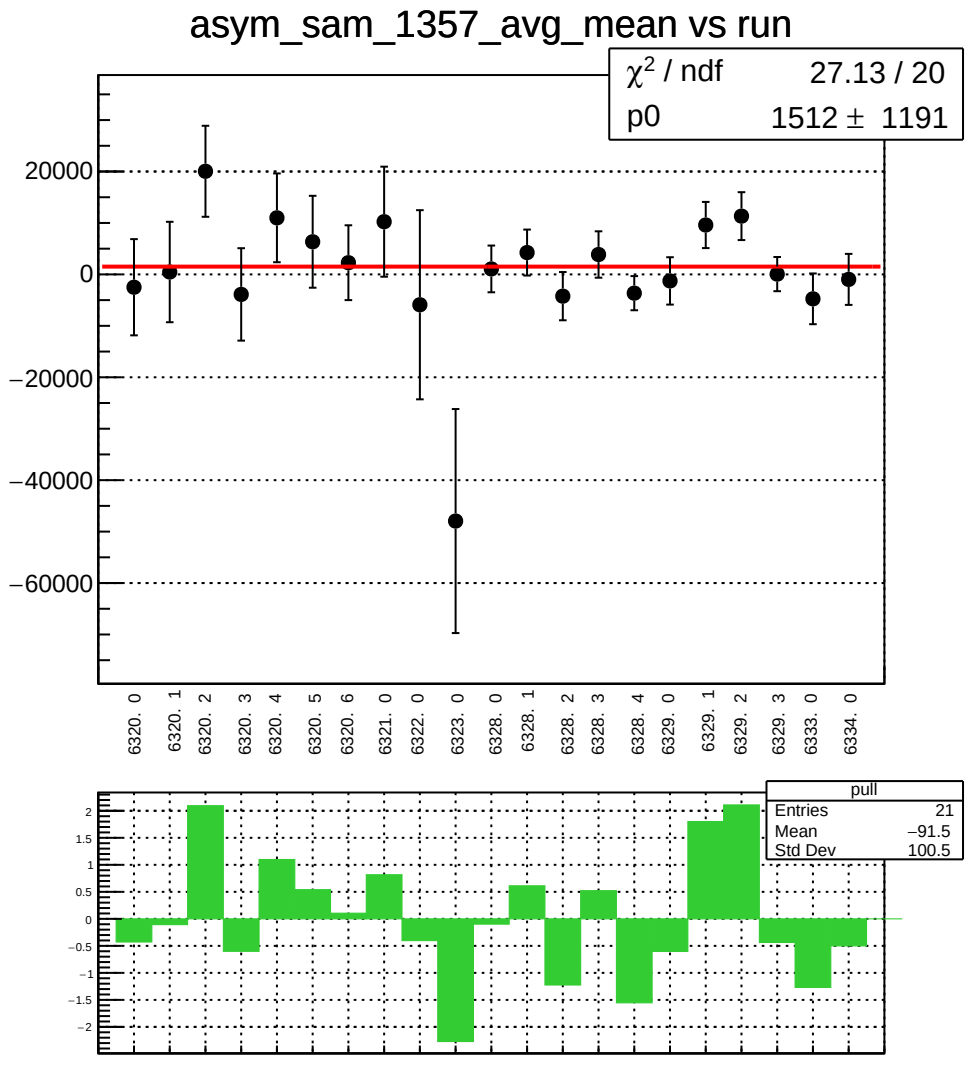

pull1D
Entries 21
Mean −0.03298
Std Dev 0.7993
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

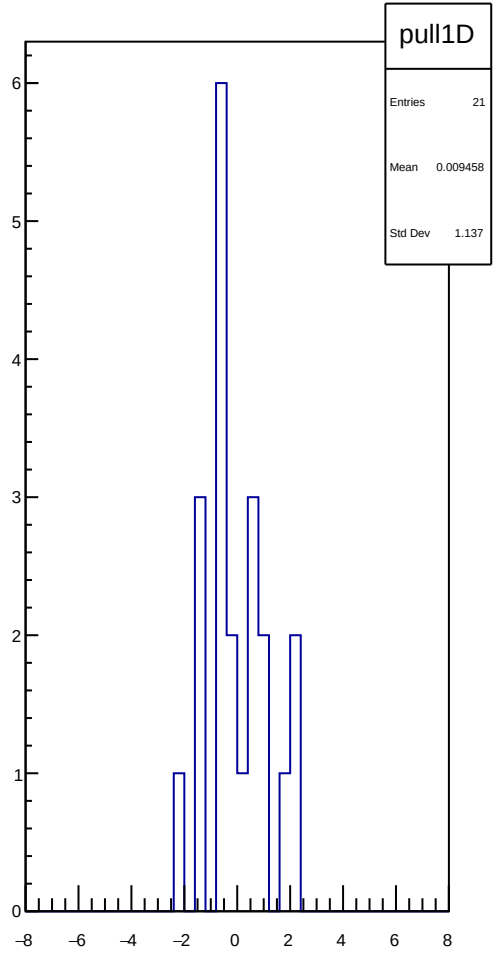

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 7858 / 20
p0 89.44 ± 0.1452
240
220
200
180
160
140
120
100
80
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

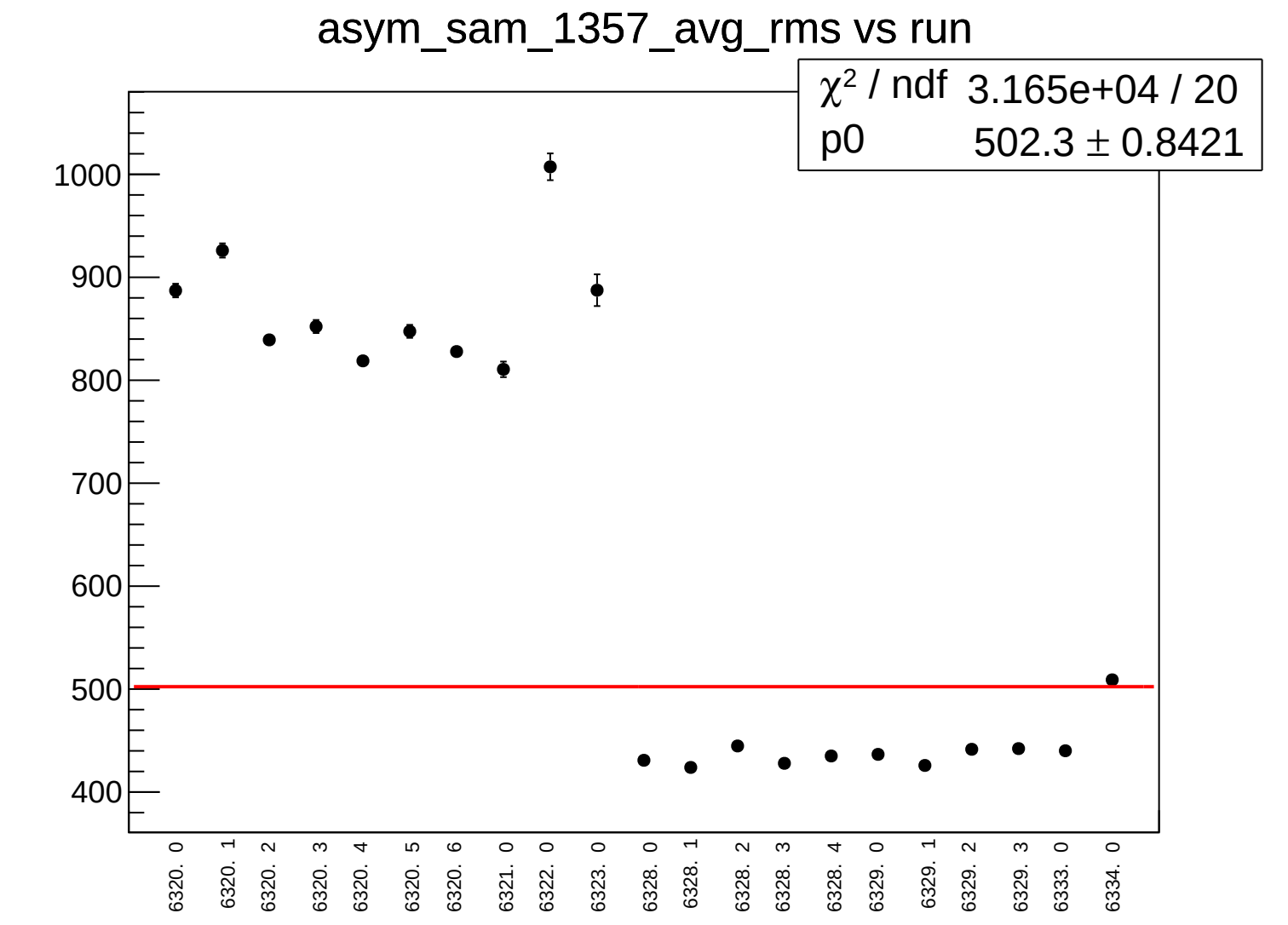

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 26.03 / 20
p0 −1331 ± 1148
60000
40000
20000
0
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −70.64
Std Dev 79.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

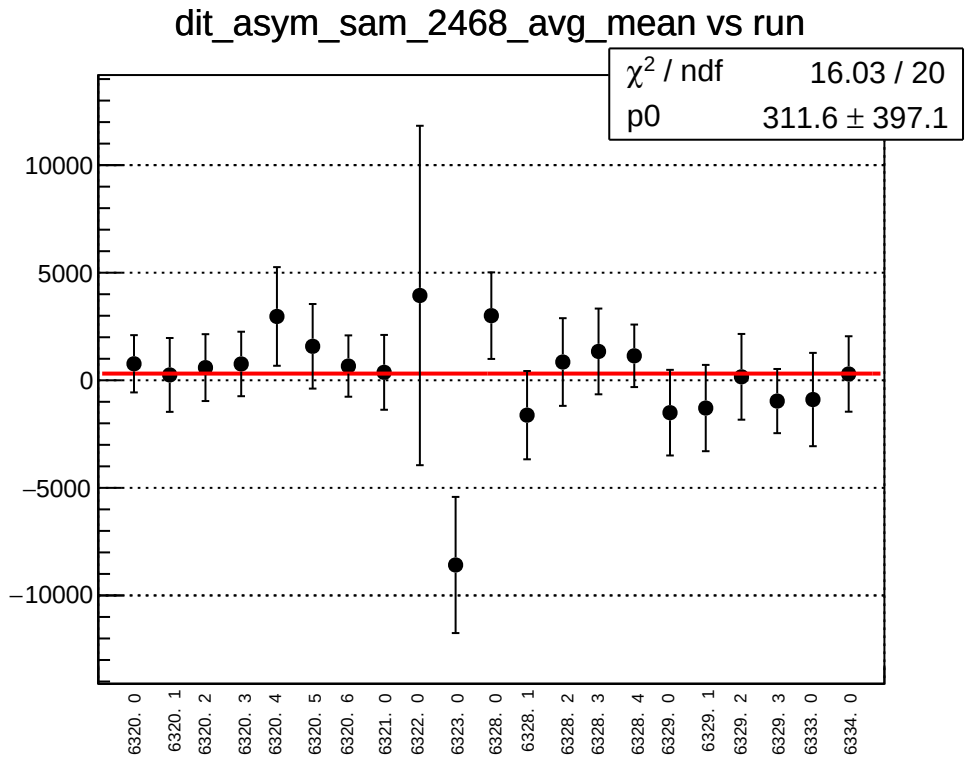

pull1D
Entries 21
Mean −0.009214
Std Dev 1.113
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

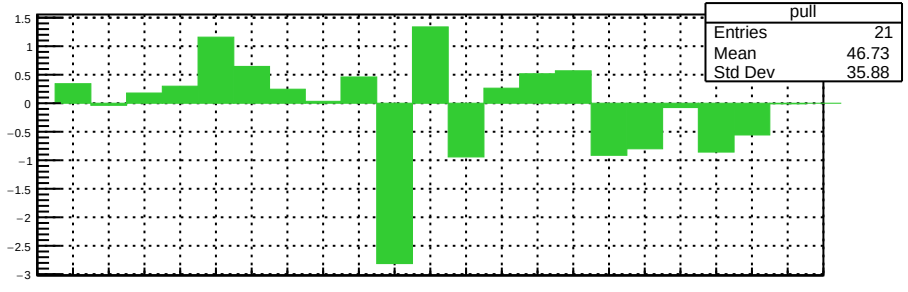

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3.587e+04 / 20
p0 481.2 ± 0.8116
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

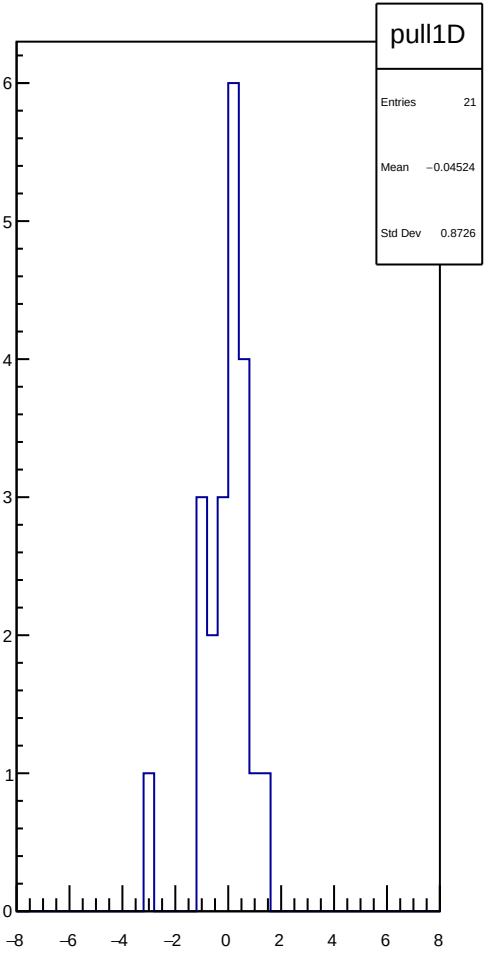

asym_sam_1357_avg_mean vs run
χ² / ndf 27.13 / 20
p0 1512 ± 1191
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −91.5
Std Dev 100.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

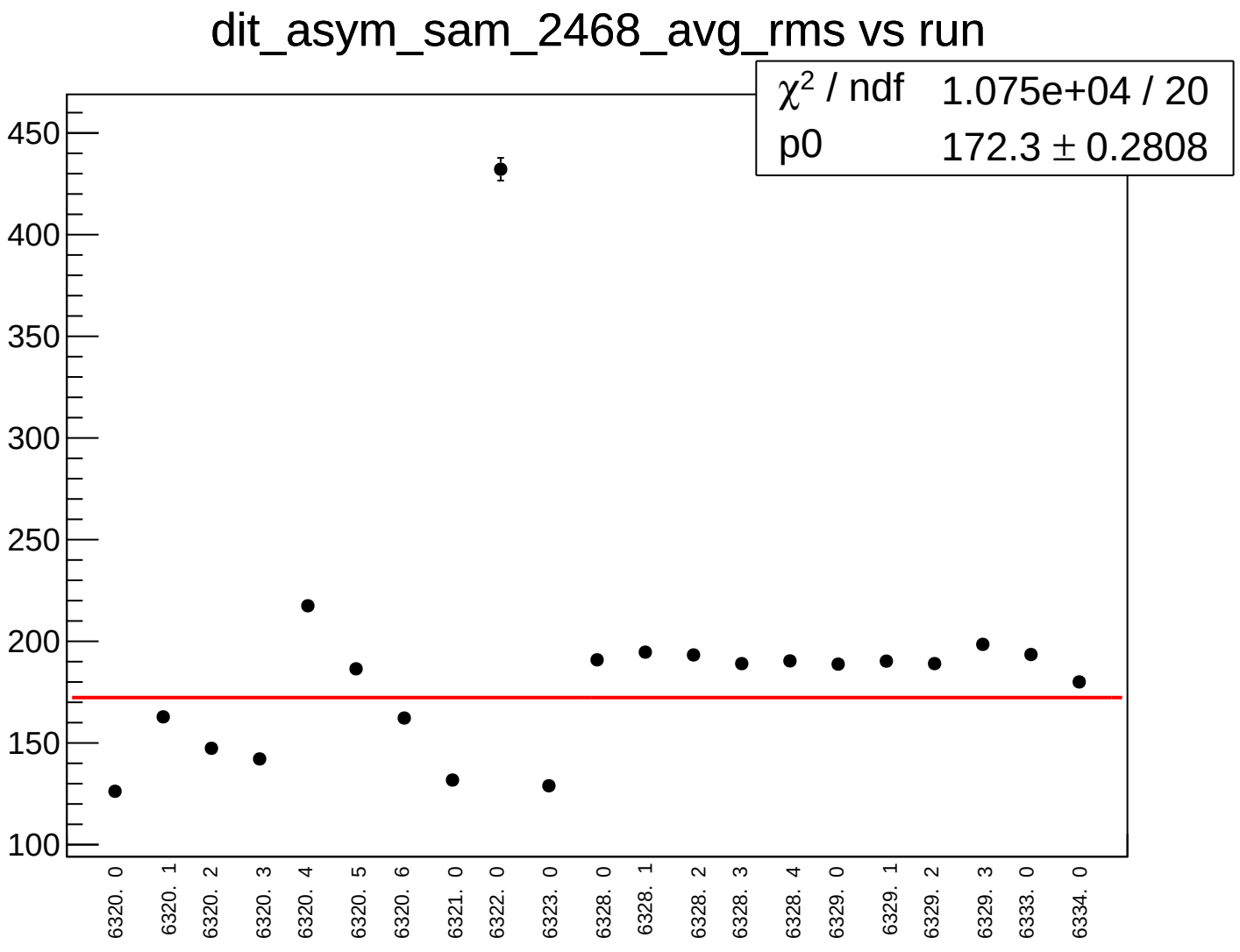

pull1D
Entries 21
Mean 0.009458
Std Dev 1.137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

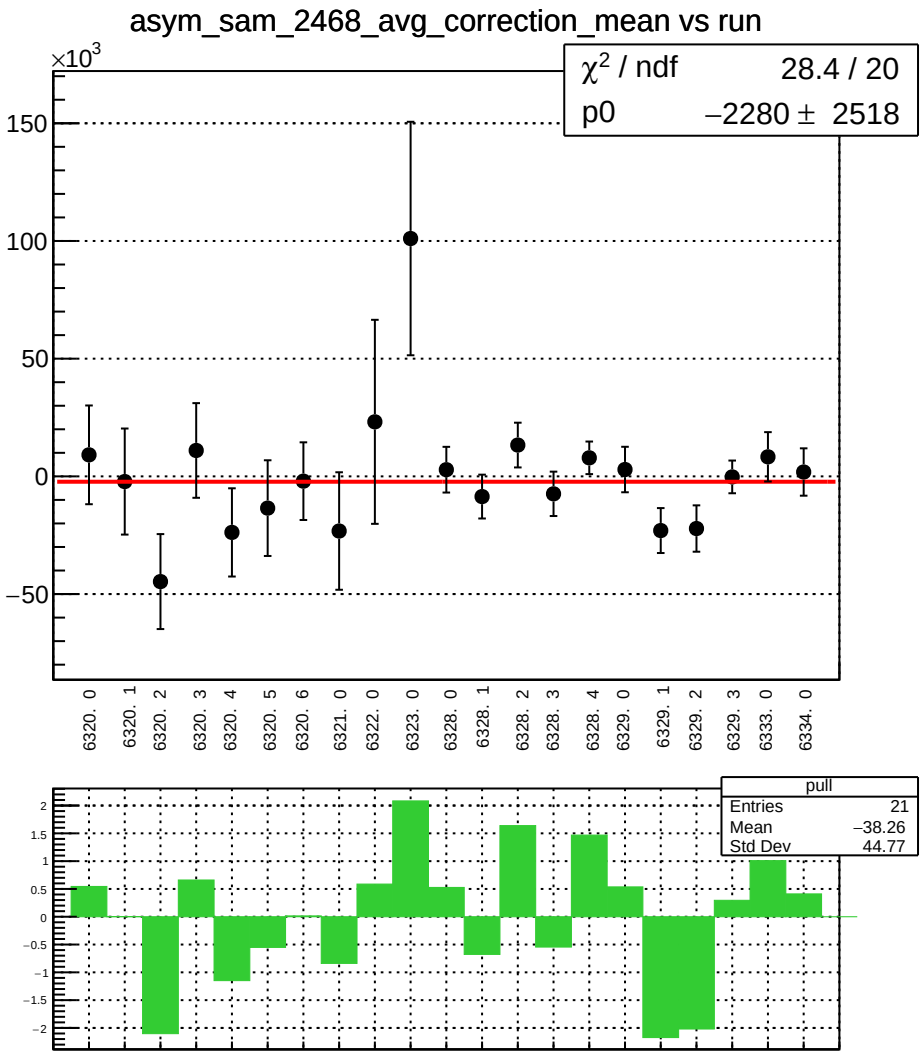

asym_sam_1357_avg_rms vs run
χ² / ndf 3.165e+04 / 20
p0 502.3 ± 0.8421
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

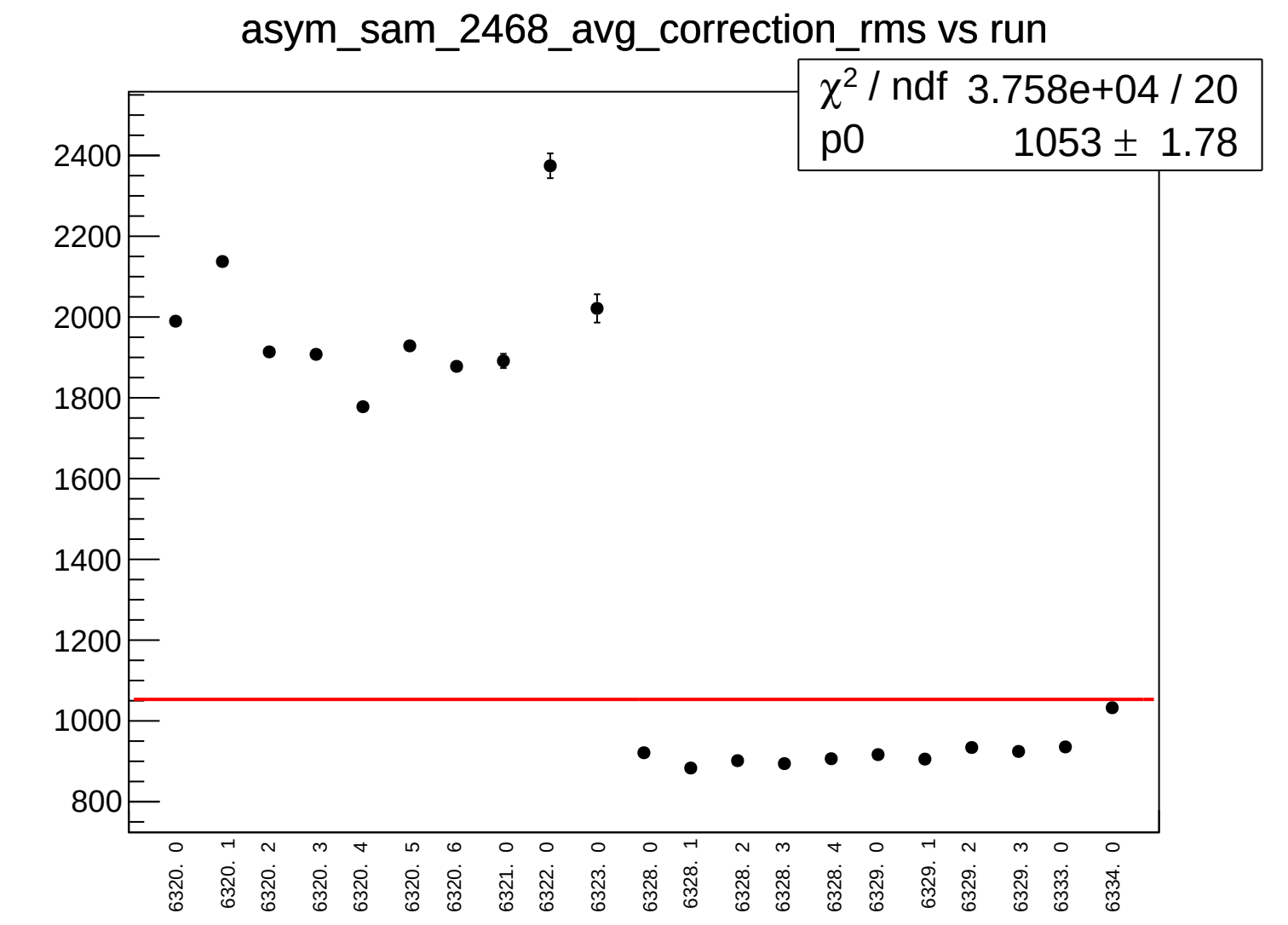

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 16.03 / 20
p0 311.6 ± 397.1
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

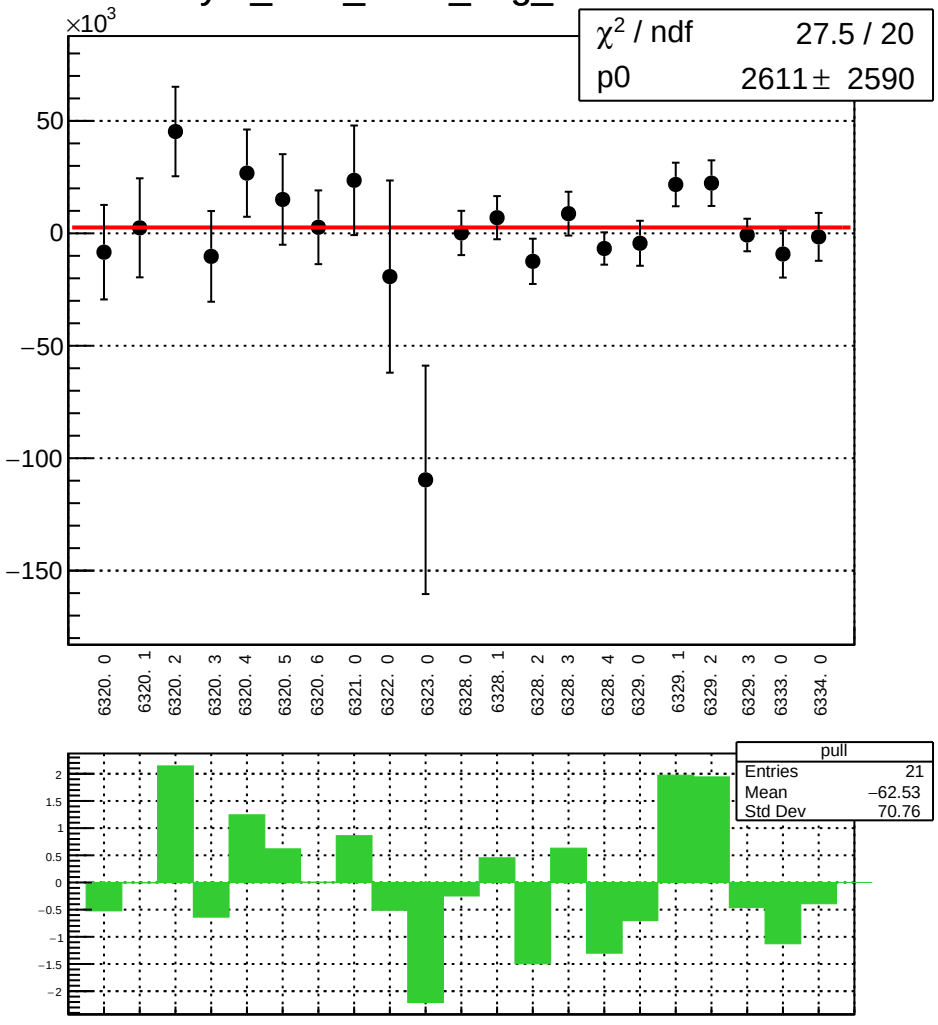

pull
Entries 21
Mean 46.73
Std Dev 35.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

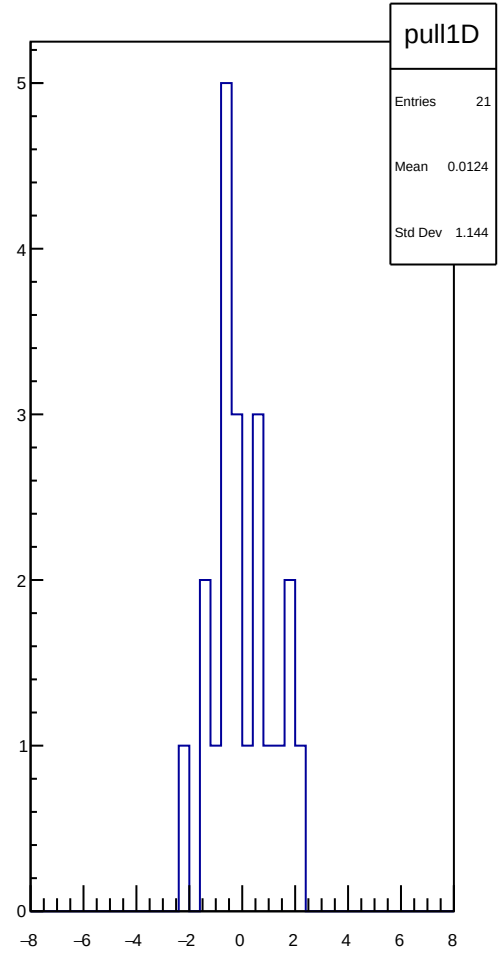

pull1D
Entries 21
Mean −0.04524
Std Dev 0.8726
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

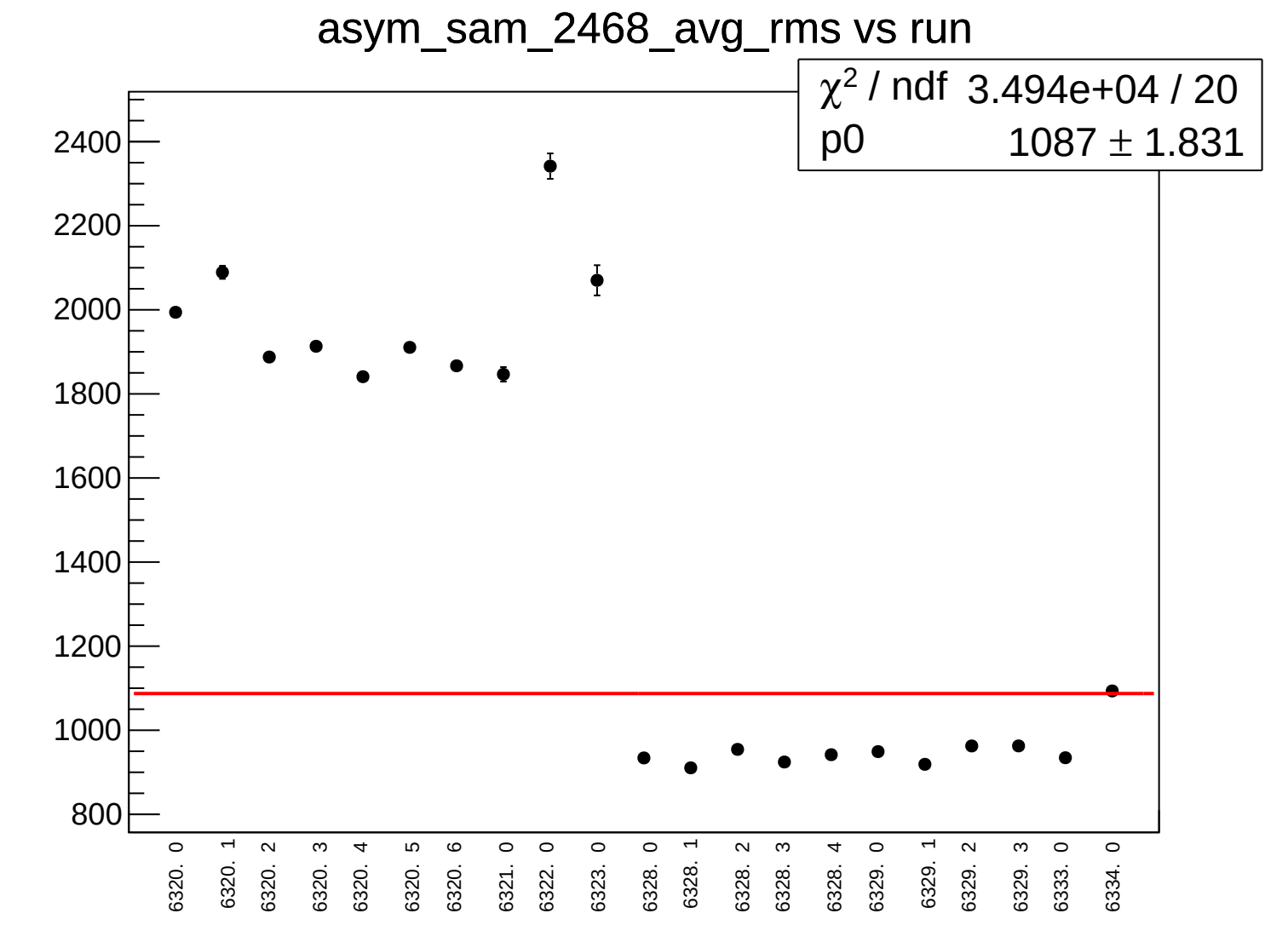

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.075e+04 / 20
p0 172.3 ± 0.2808
450
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

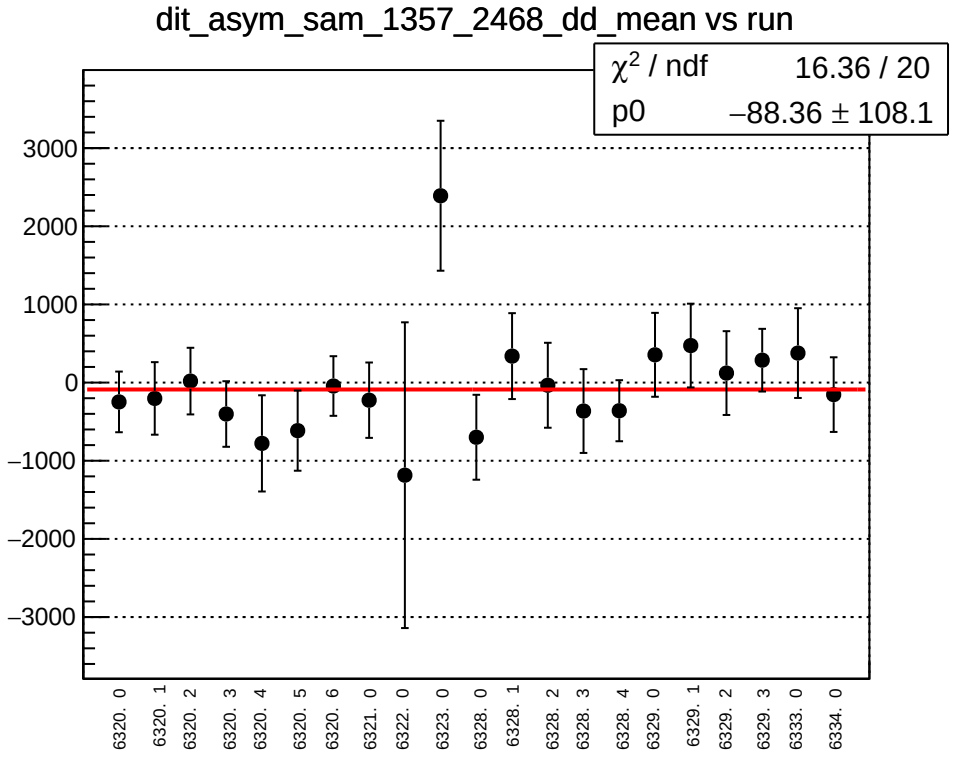

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 28.4 / 20
p0 −2280 ± 2518
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −38.26
Std Dev 44.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.01316
Std Dev 1.163
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

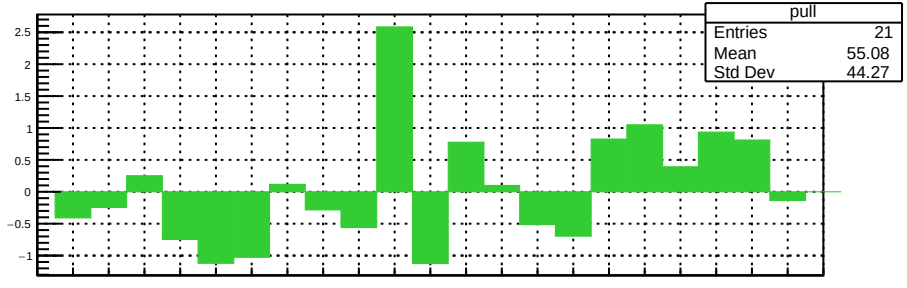

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 3.758e+04 / 20
p0 1053 ± 1.78
2400
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

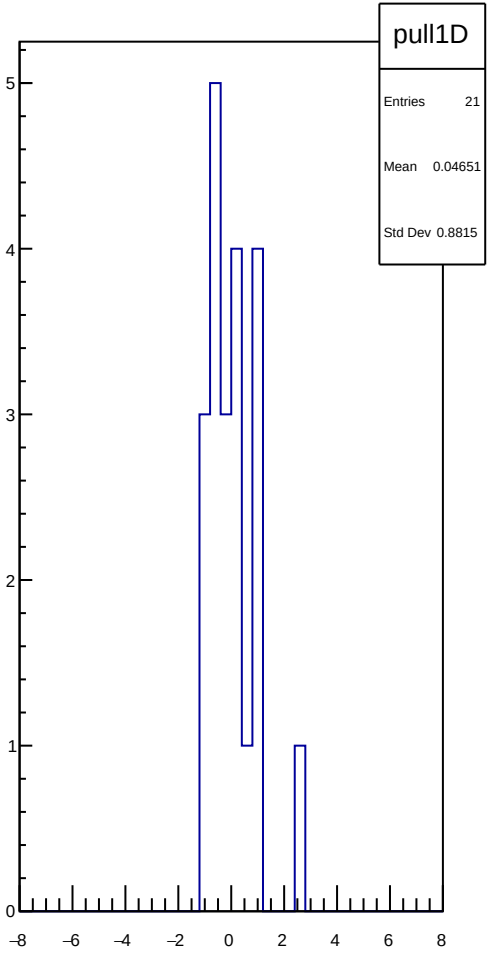

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 27.5 / 20
p0 2611 ± 2590
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −62.53
Std Dev 70.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

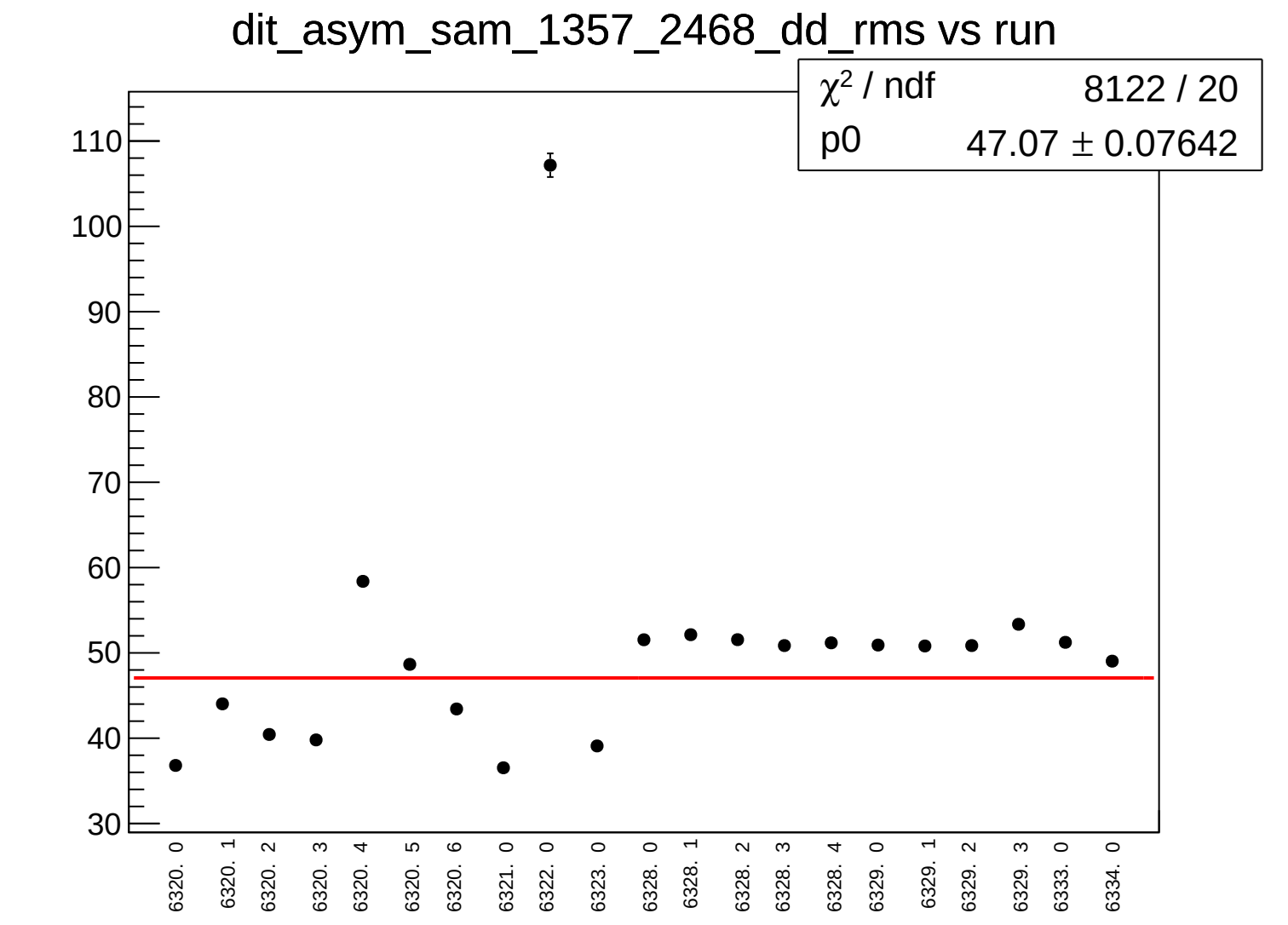

pull1D
Entries 21
Mean 0.0124
Std Dev 1.144
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

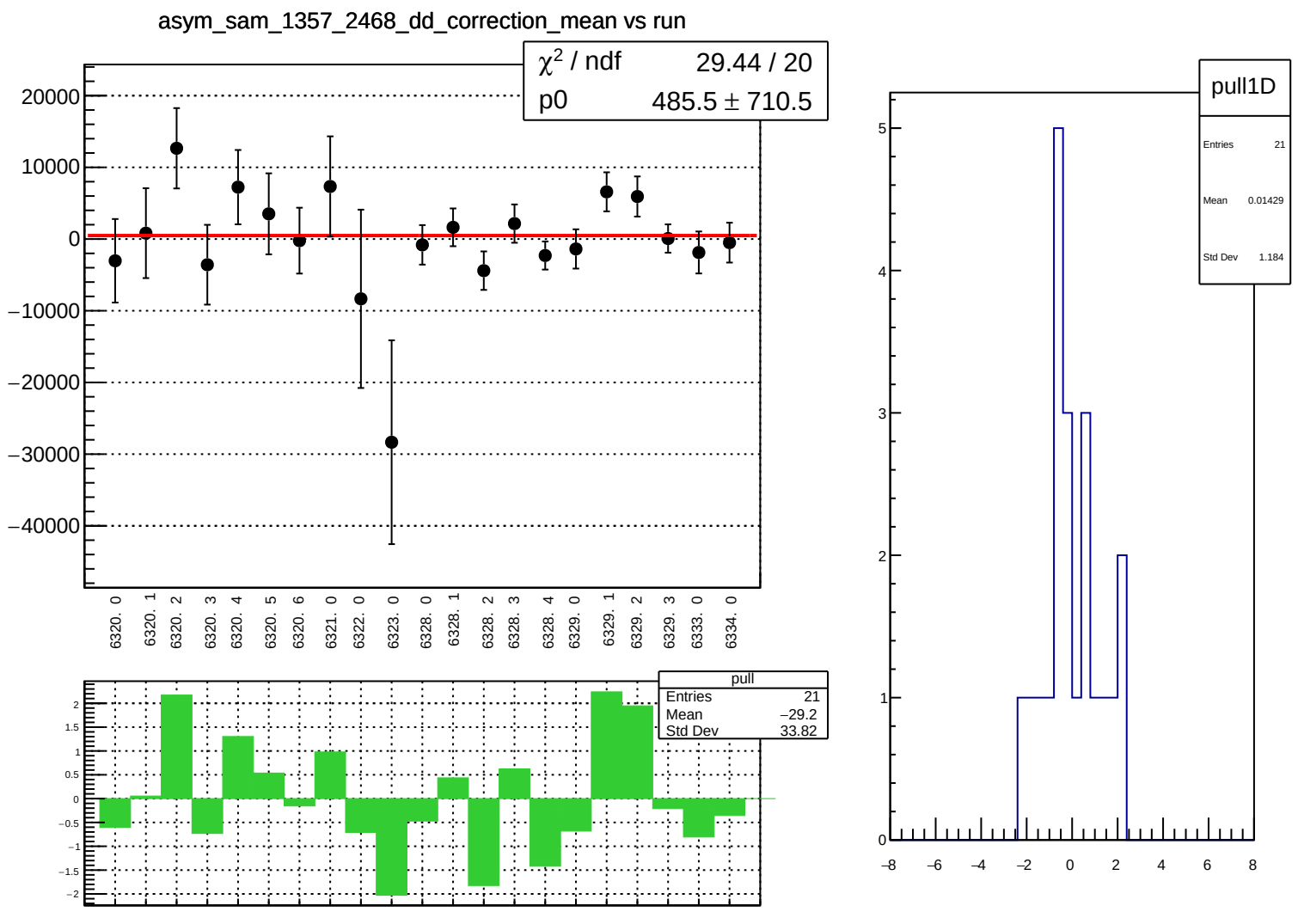

asym_sam_2468_avg_rms vs run
χ² / ndf 3.494e+04 / 20
p0 1087 ± 1.831
2400
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

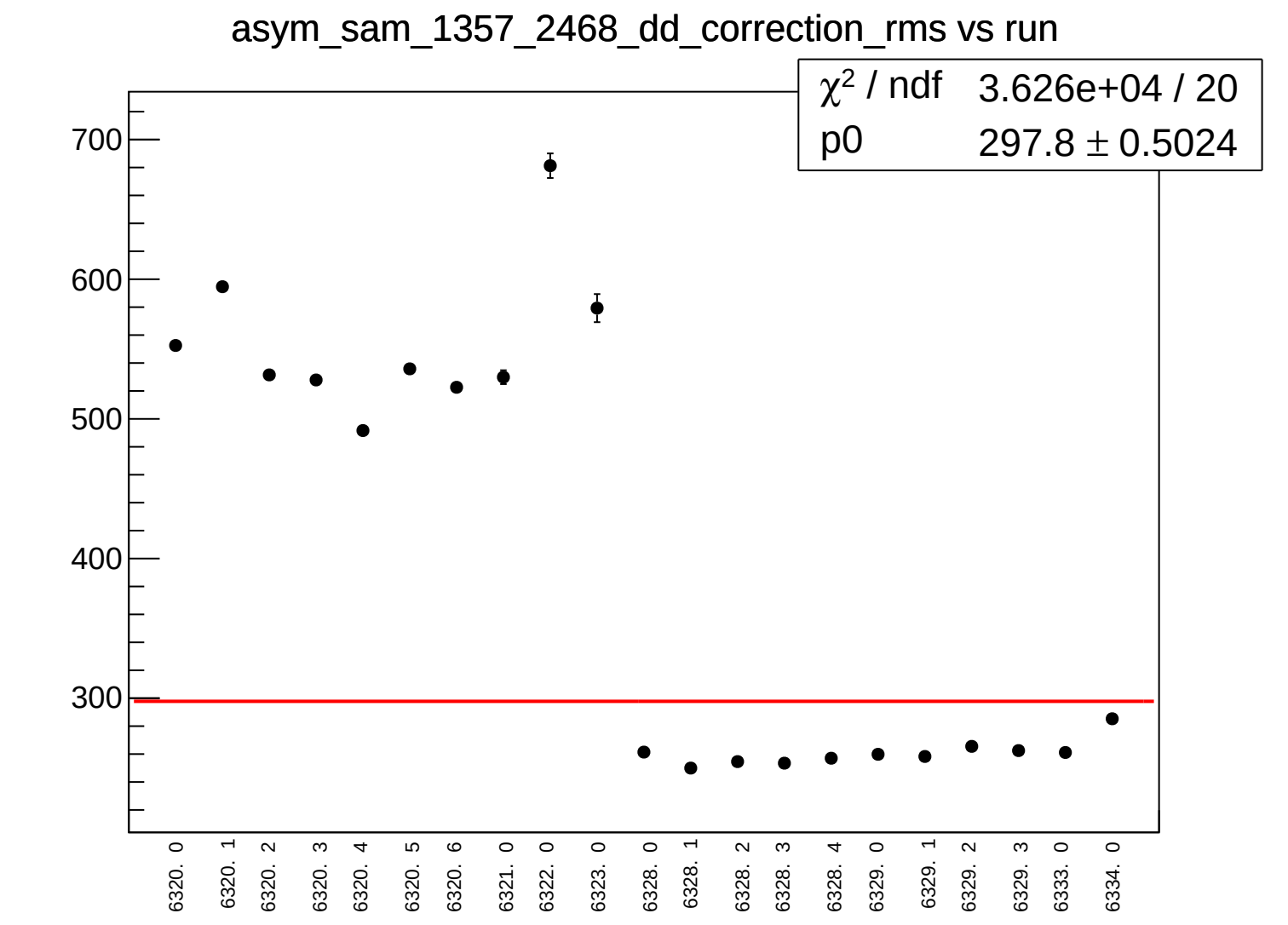

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 16.36 / 20
p0 −88.36 ± 108.1
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

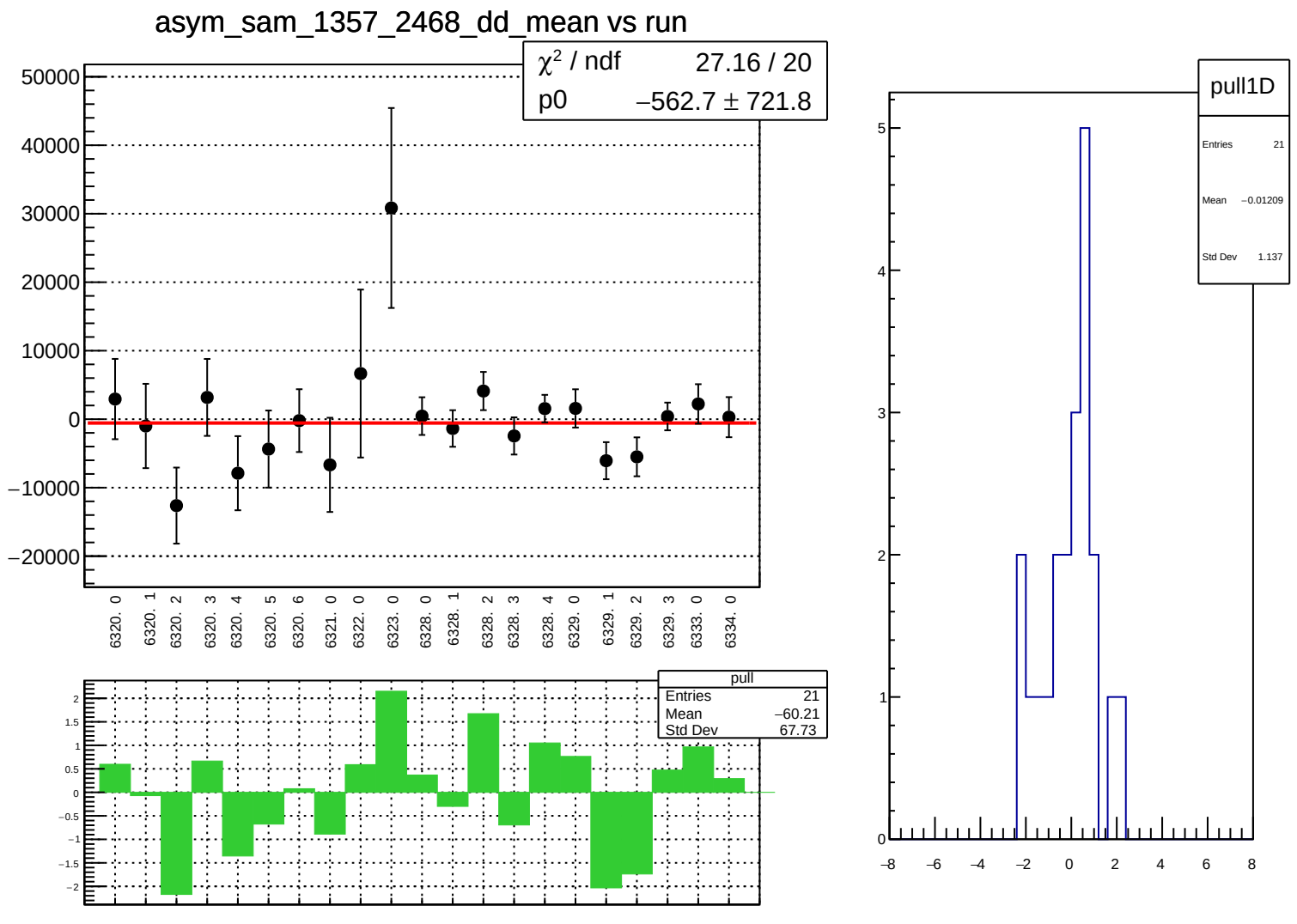

pull
Entries 21
Mean 55.08
Std Dev 44.27
2.5
2
1.5
1
0.5
0
−0.5
−1

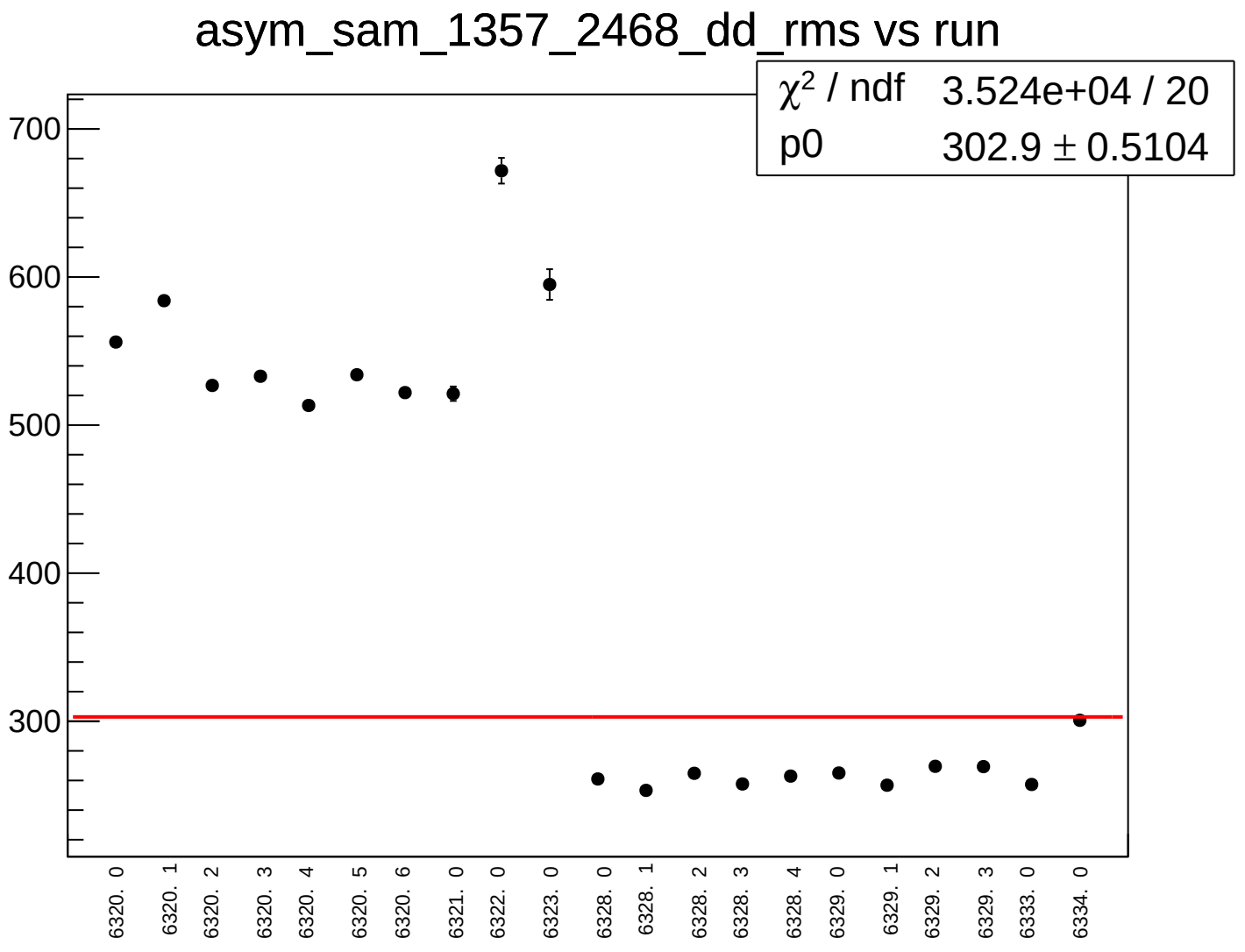

pull1D
Entries 21
Mean 0.04651
Std Dev 0.8815
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

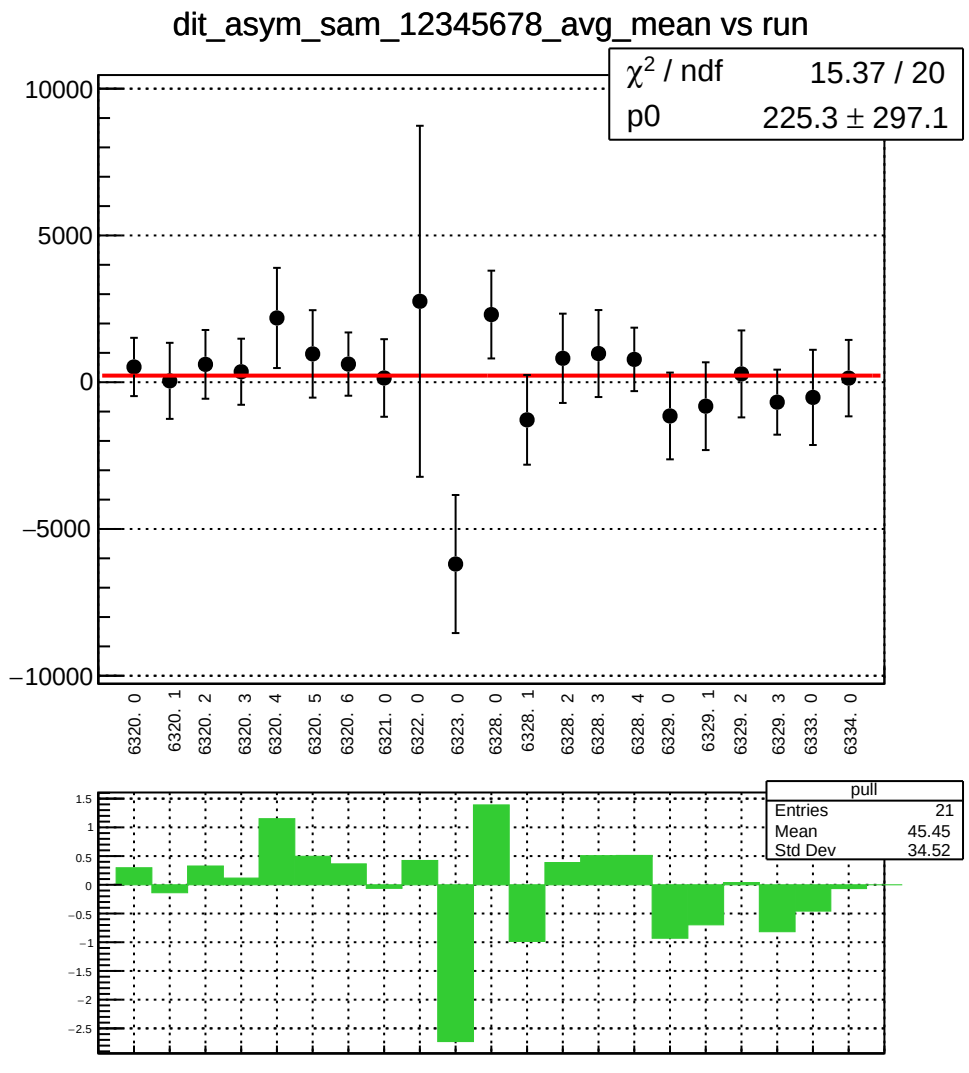

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8122 / 20
p0 47.07 ± 0.07642
110
100
90
80
70
60
50
40
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

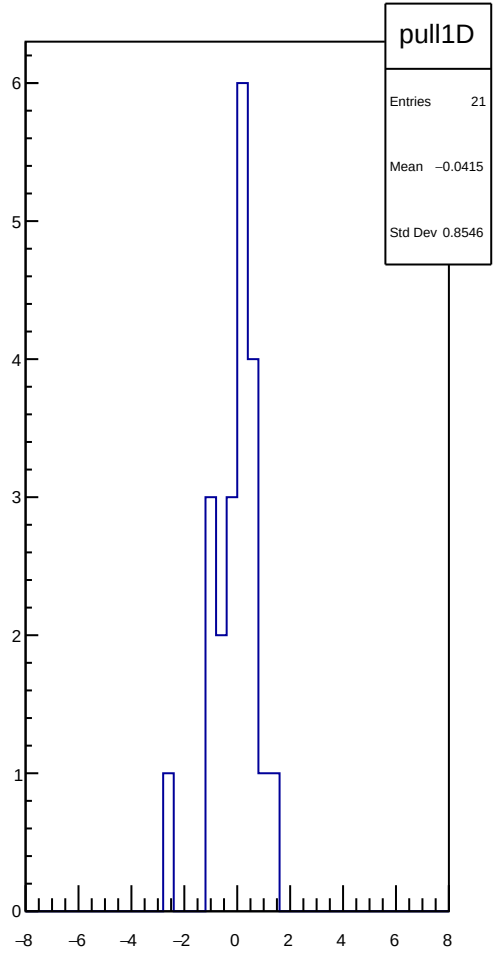

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 29.44 / 20
p0 485.5 ± 710.5
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.2
Std Dev 33.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.01429
Std Dev 1.184
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

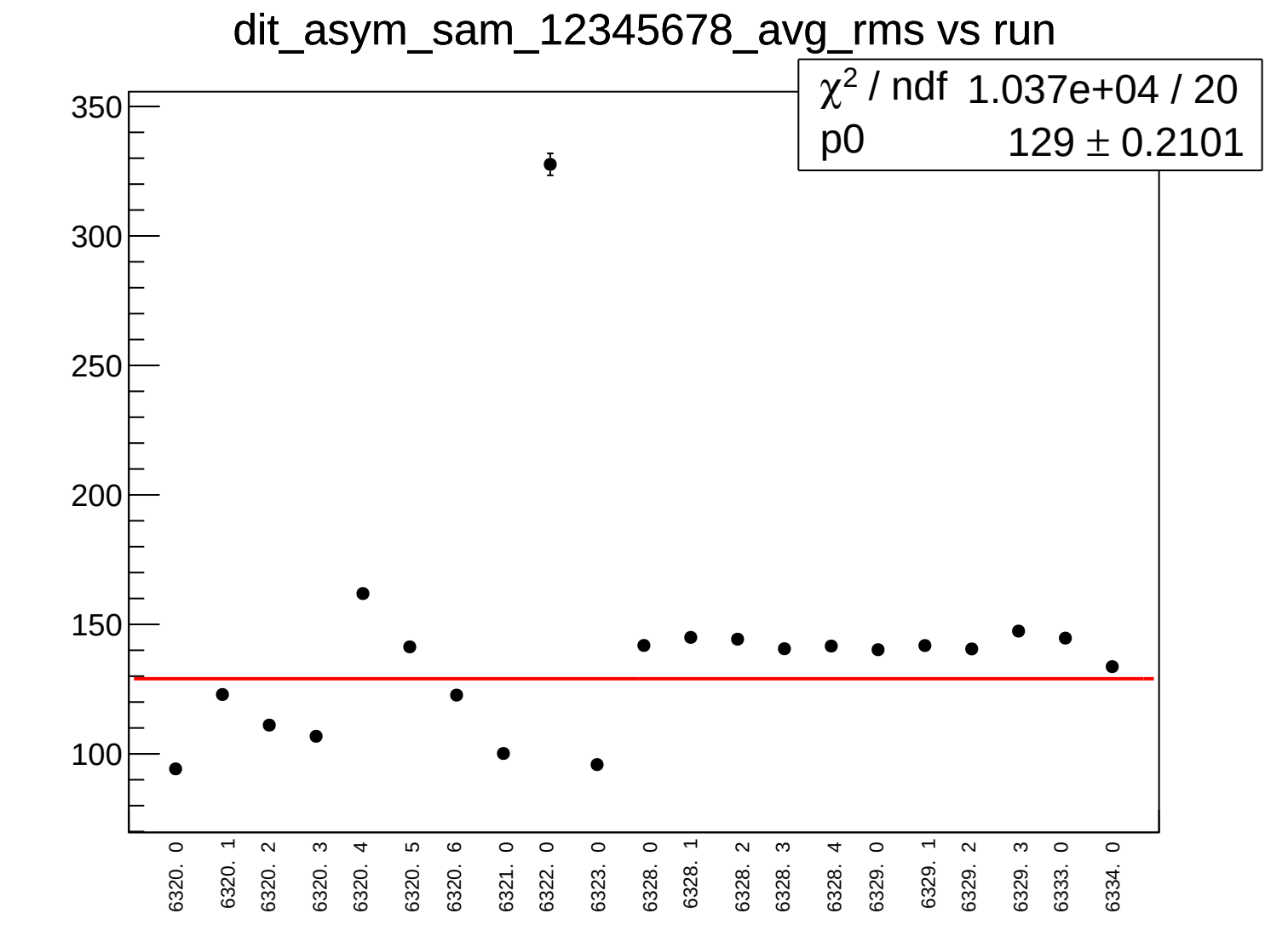

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 3.626e+04 / 20
p0 297.8 ± 0.5024
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

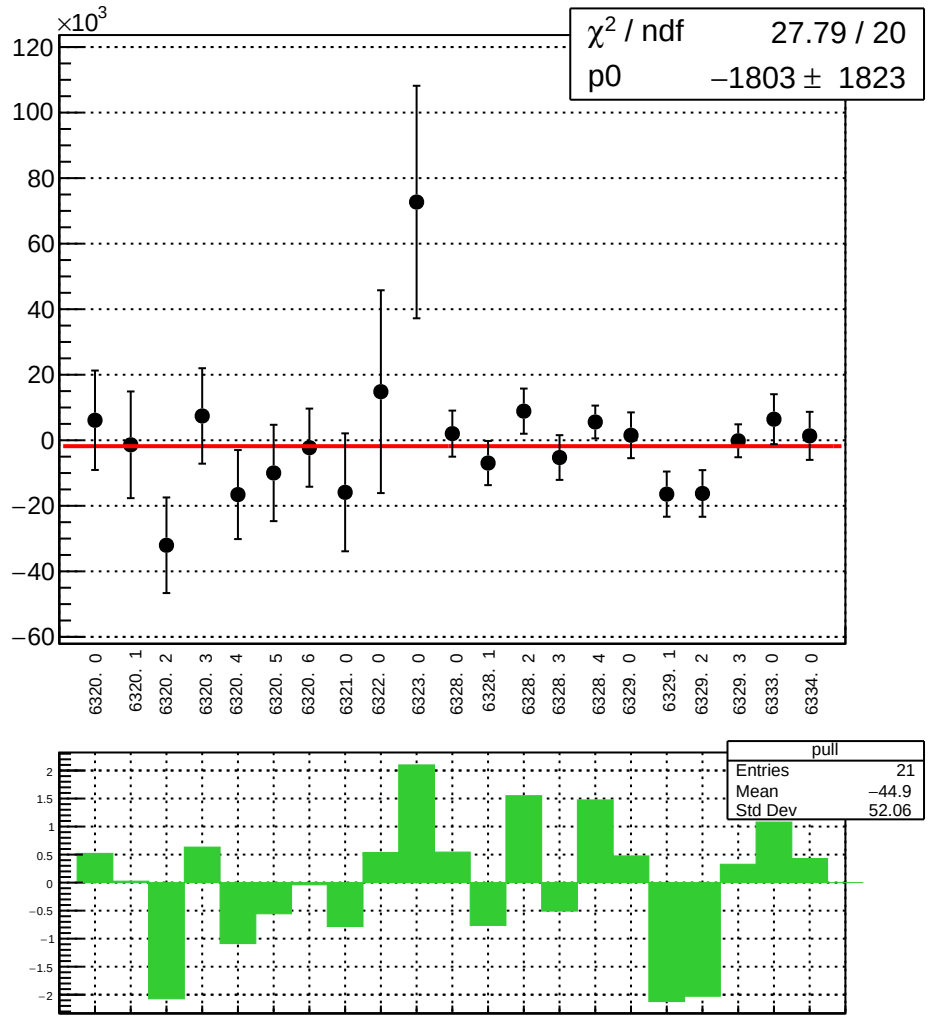

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 27.16 / 20
p0 −562.7 ± 721.8
50000
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −60.21
Std Dev 67.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.01209
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

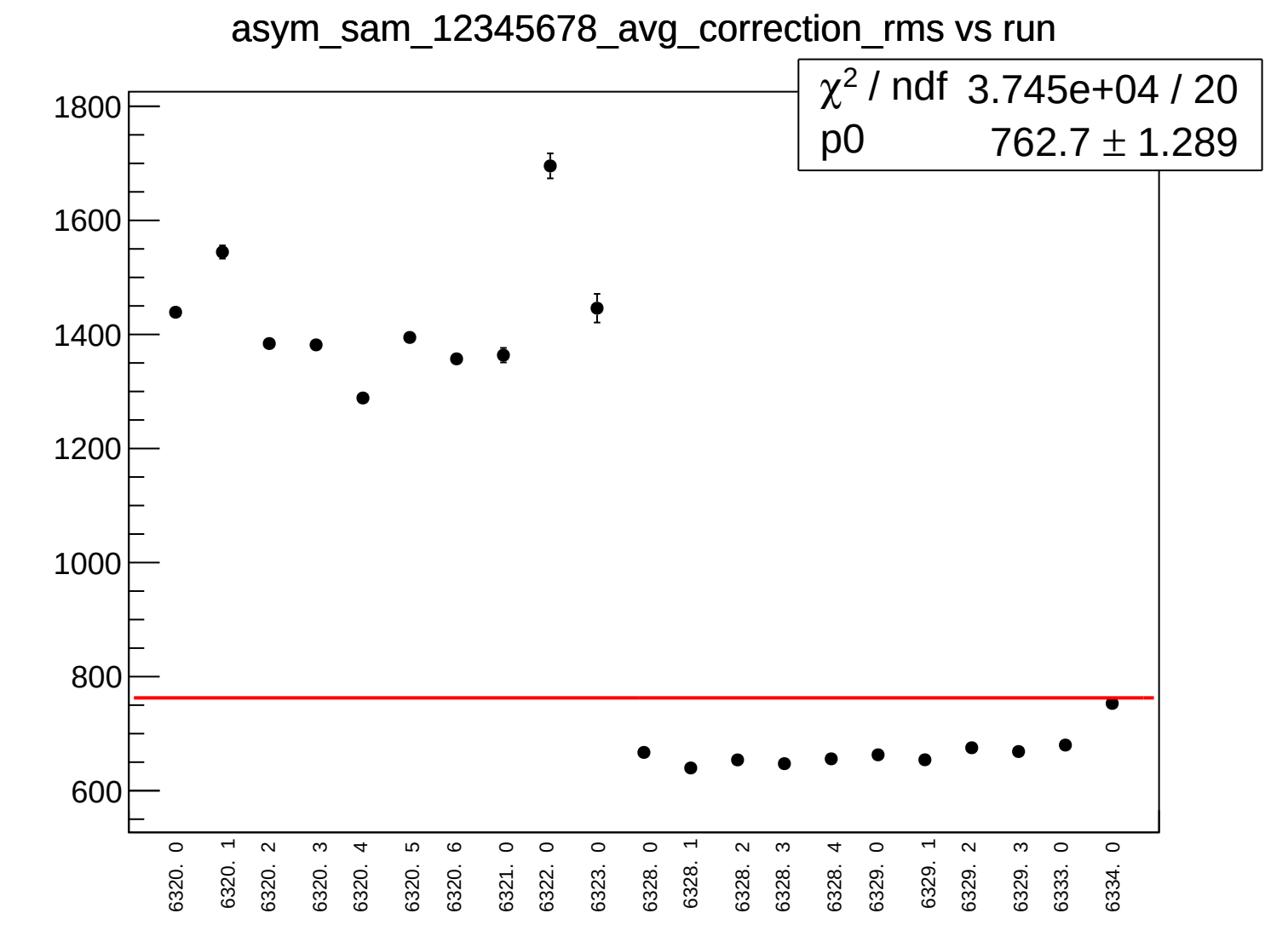

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.524e+04 / 20
p0 302.9 ± 0.5104
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

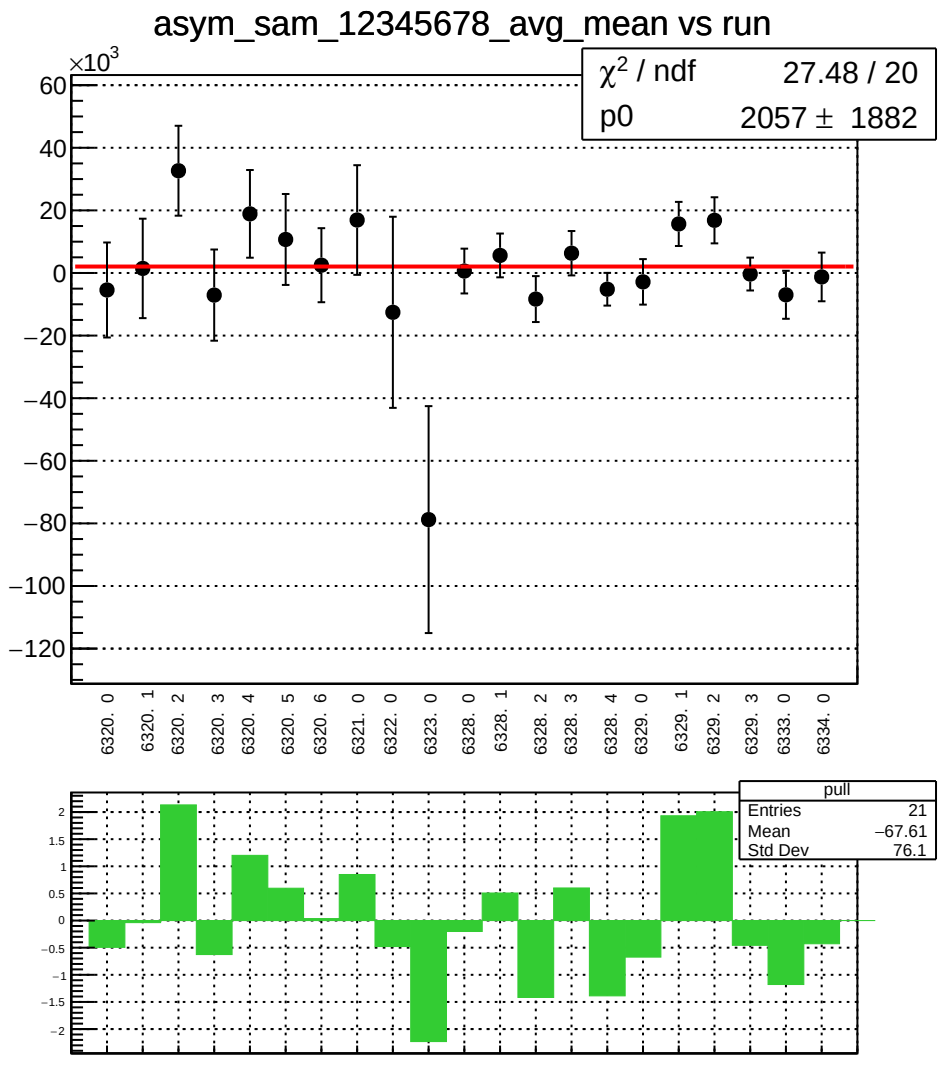

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 15.37 / 20
p0 225.3 ± 297.1
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 45.45
Std Dev 34.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

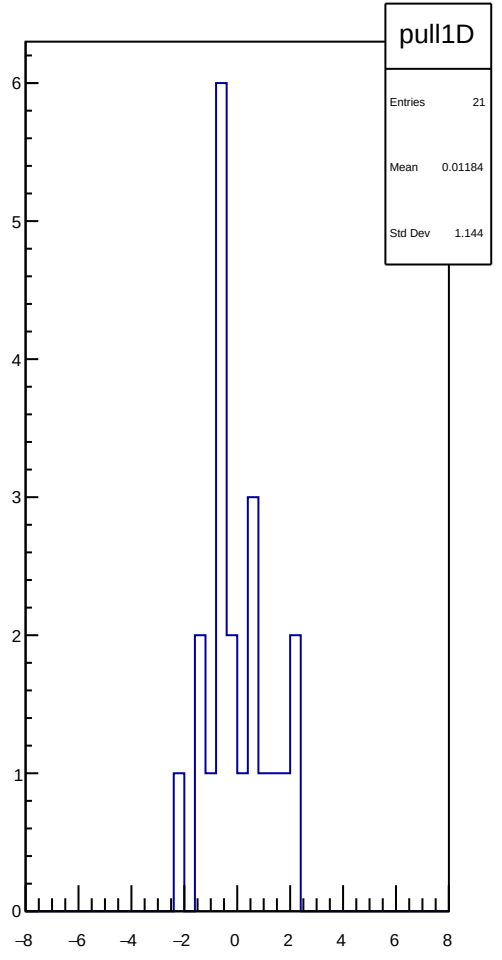

pull1D
Entries 21
Mean −0.0415
Std Dev 0.8546
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

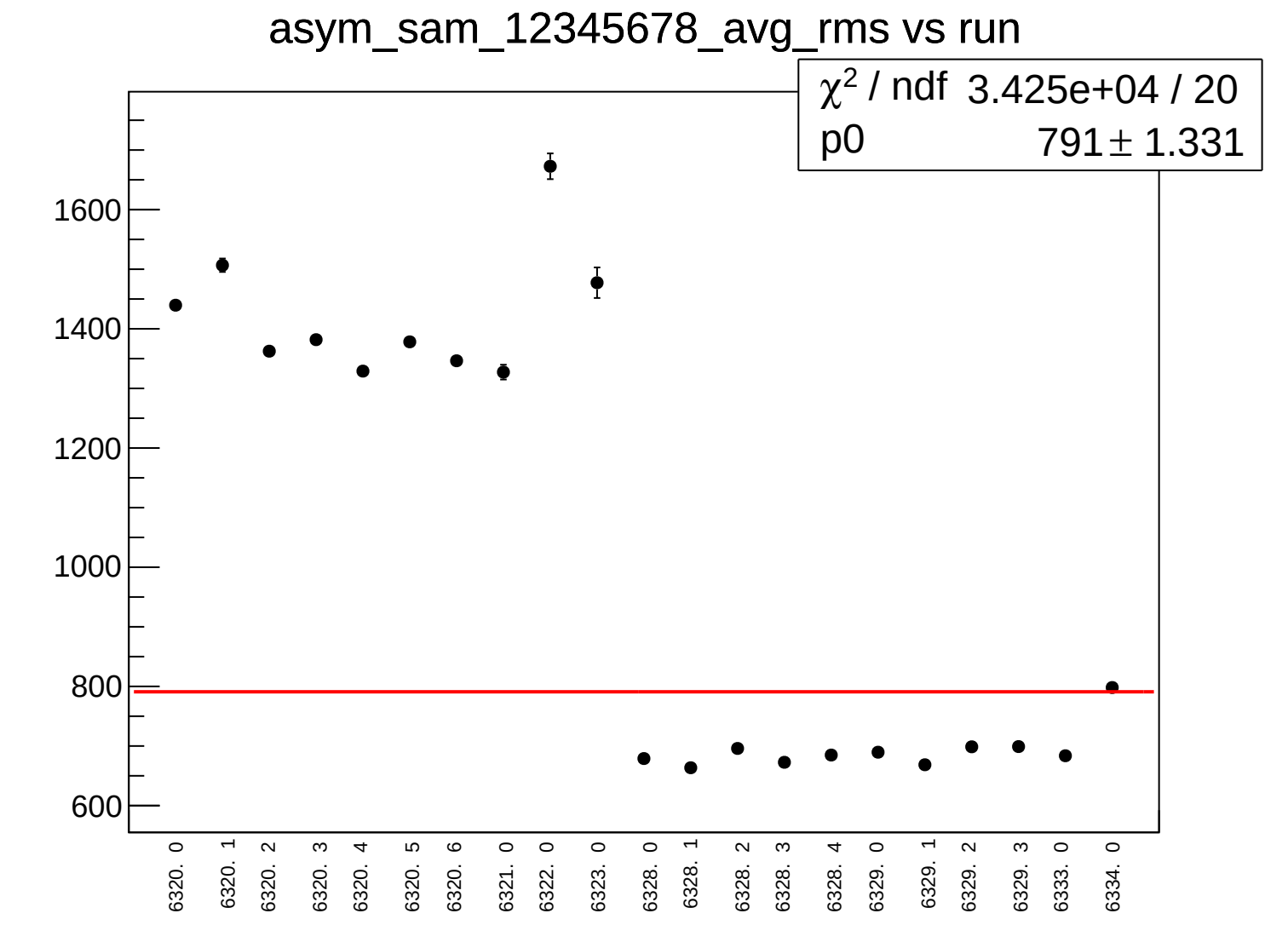

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.037e+04 / 20
p0 129 ± 0.2101
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

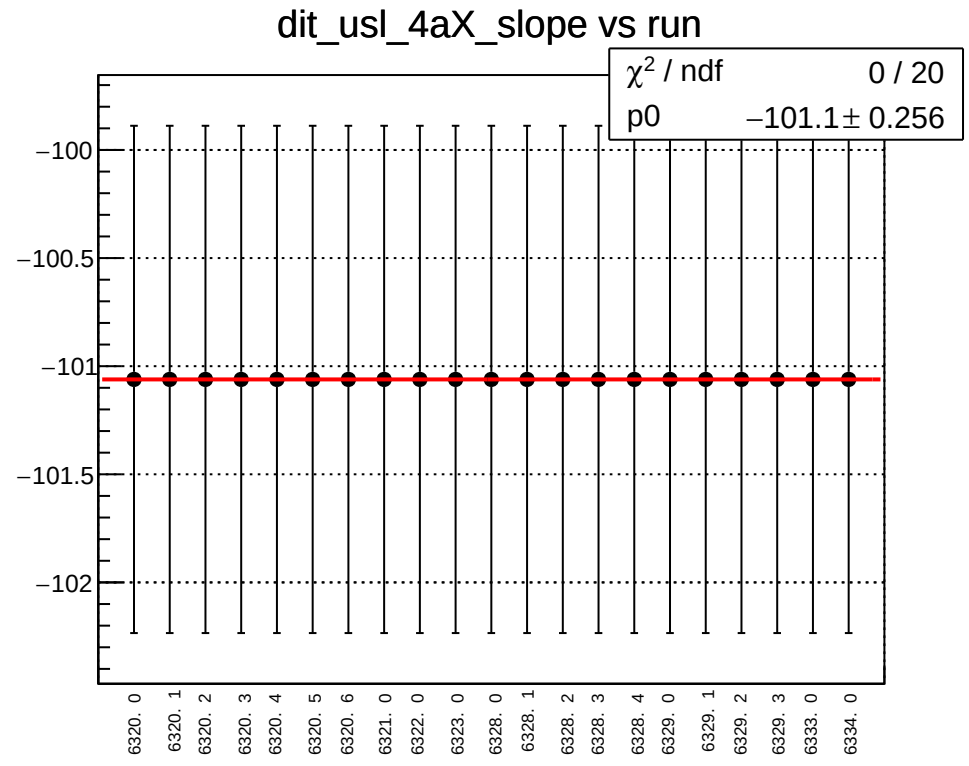

asym_sam_12345678_avg_correction_mean vs run
×10^3
χ² / ndf 27.79 / 20
p0 −1803 ± 1823
120
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −44.9
Std Dev 52.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.01215
Std Dev 1.15
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

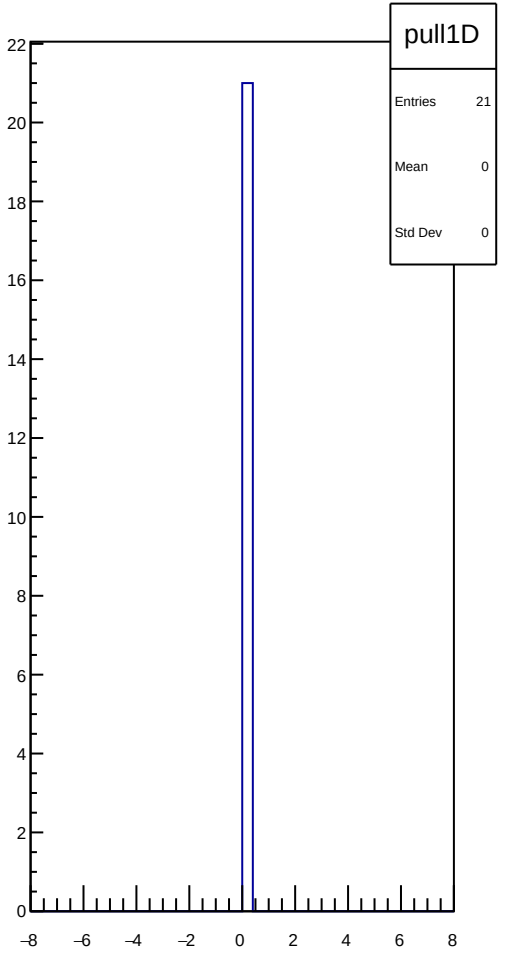

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 3.745e+04 / 20
p0 762.7 ± 1.289
1800
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

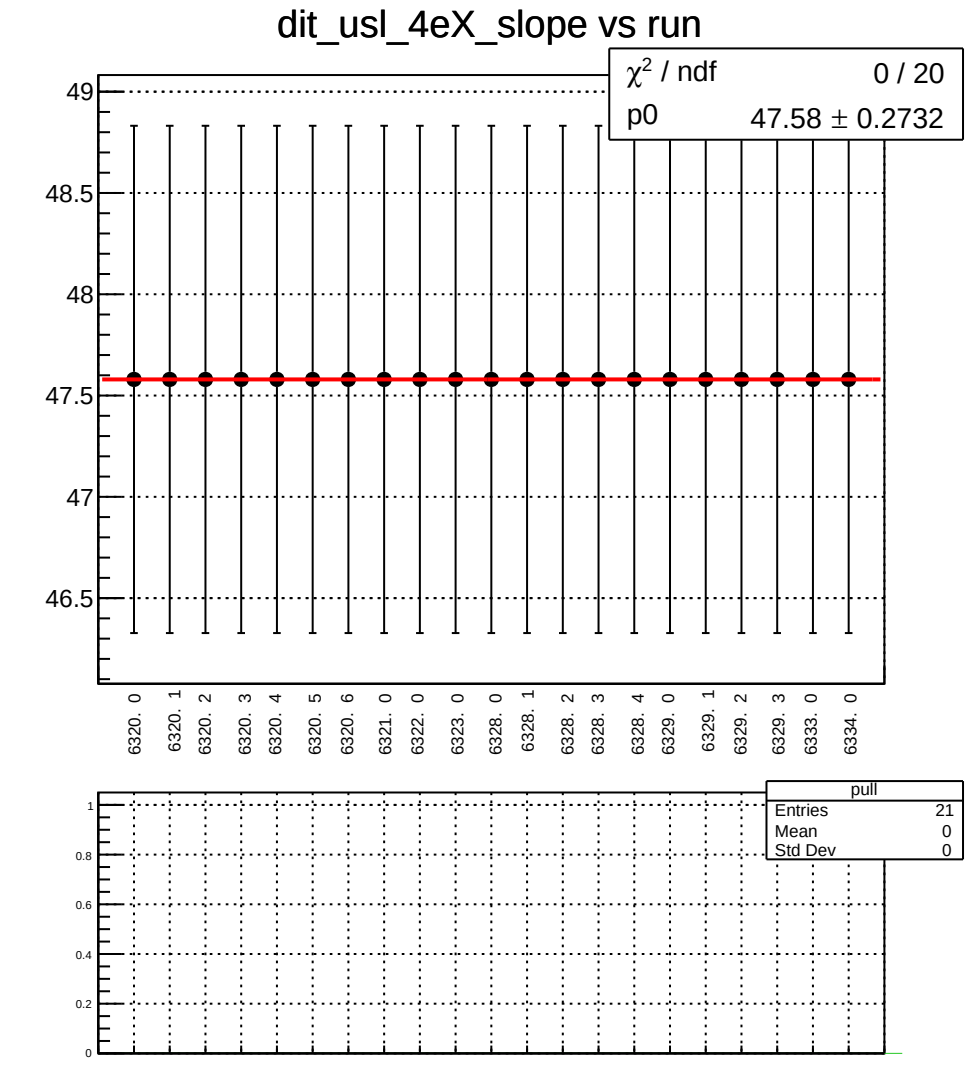

asym_sam_12345678_avg_mean vs run
×10^3
χ² / ndf 27.48 / 20
p0 2057 ± 1882
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −67.61
Std Dev 76.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

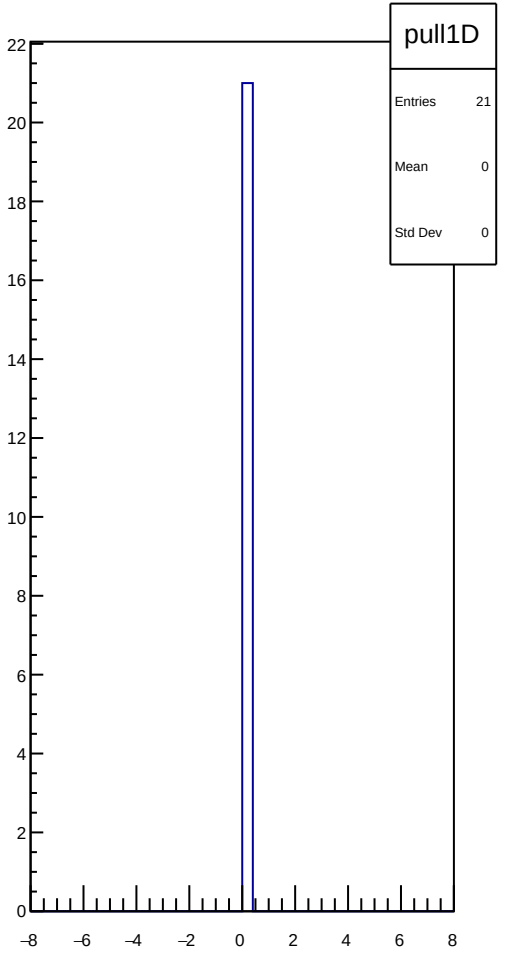

pull1D
Entries 21
Mean 0.01184
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

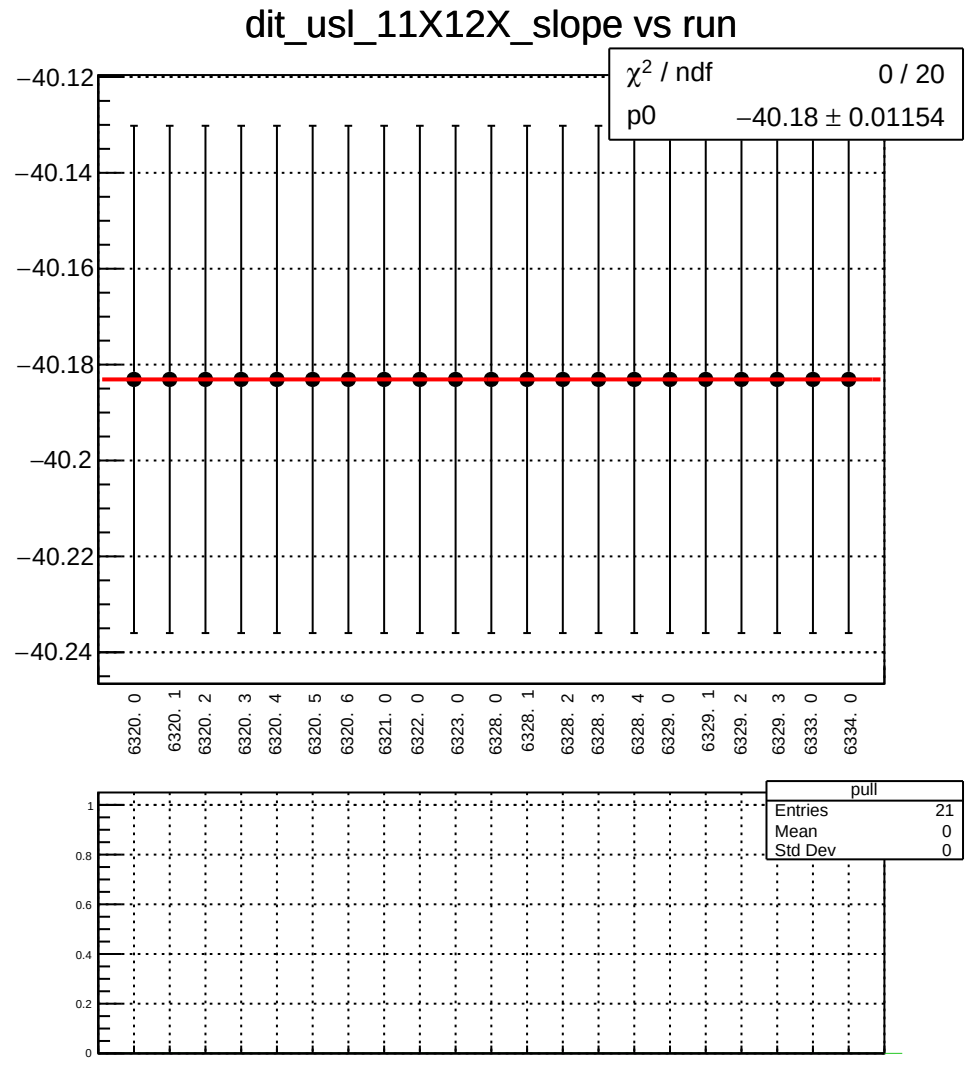

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.425e+04 / 20
p0 791 ± 1.331
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

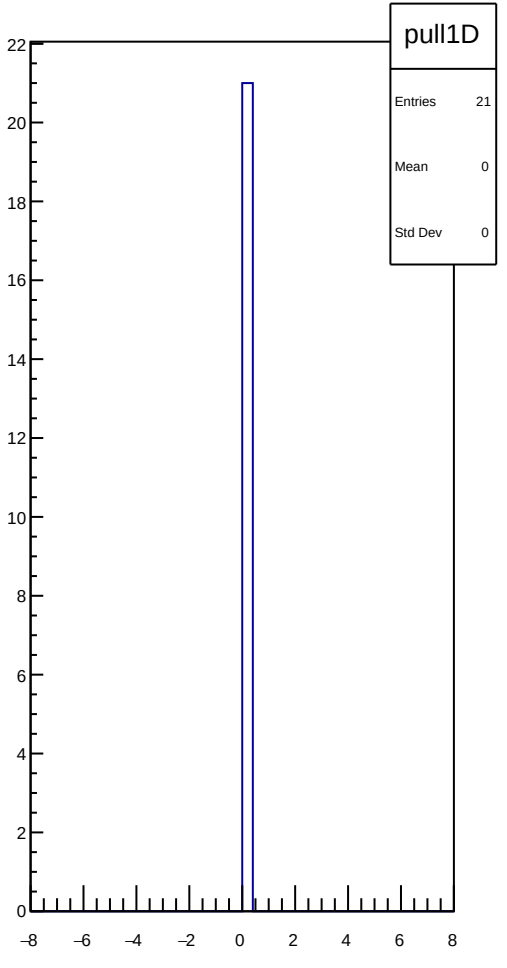

dit_usl_4aX_slope vs run
χ² / ndf 0 / 20
p0 −101.1 ± 0.256
−100
−100.5
−101
−101.5
−102
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

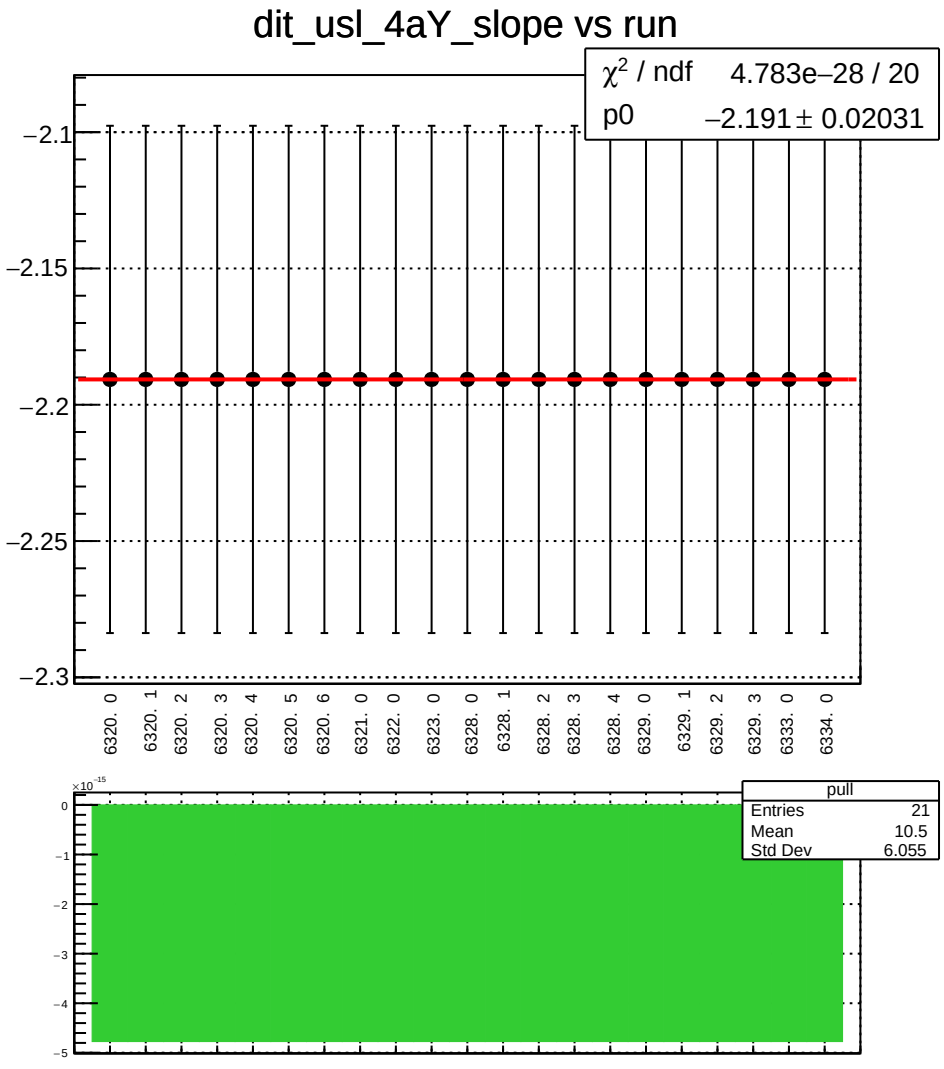

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

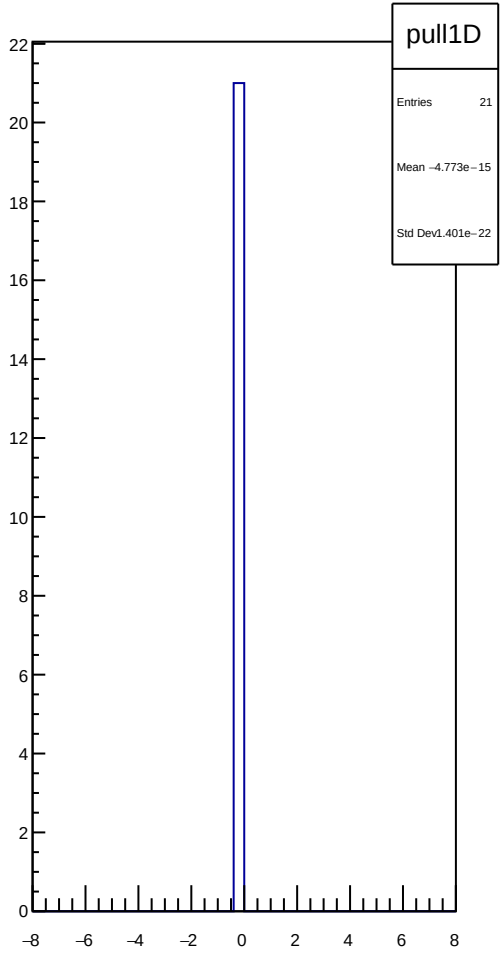

dit_usl_4eX_slope vs run
χ² / ndf 0 / 20
p0 47.58 ± 0.2732
49
48.5
48
47.5
47
46.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

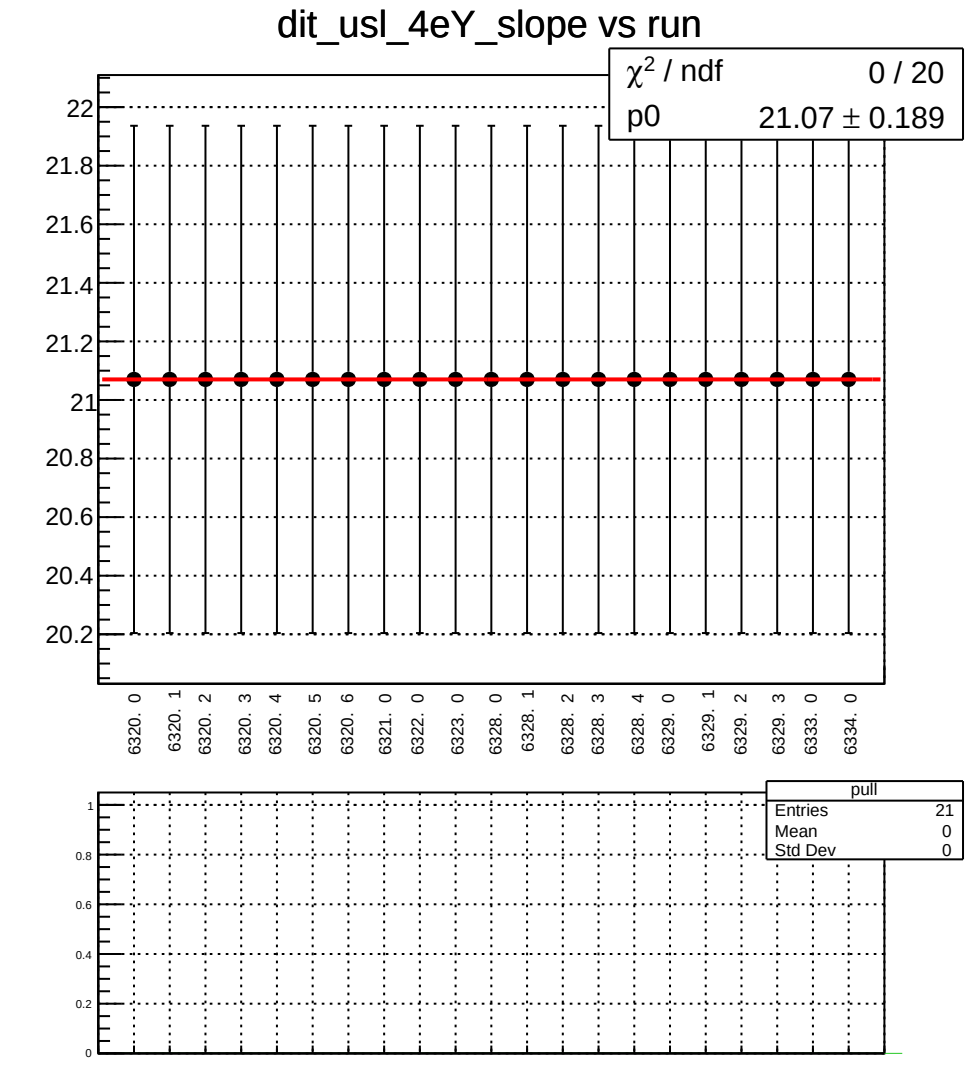

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

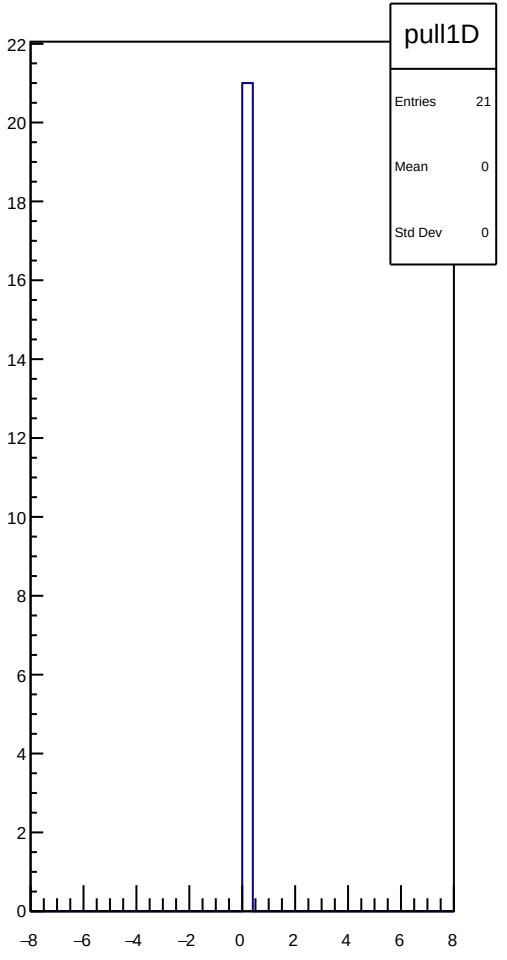

dit_usl_11X12X_slope vs run
χ² / ndf 0 / 20
p0 −40.18 ± 0.01154
−40.12
−40.14
−40.16
−40.18
−40.2
−40.22
−40.24
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

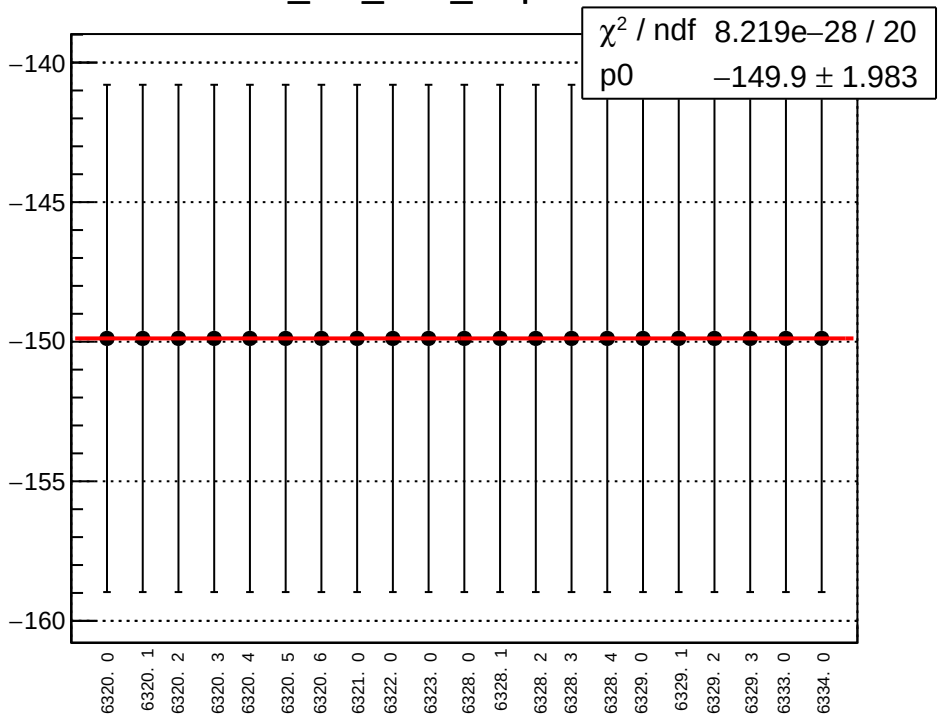

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

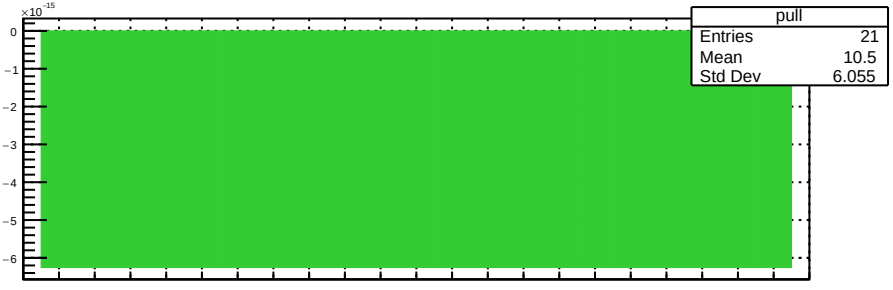

dit_usl_4aY_slope vs run
χ² / ndf 4.783e−28 / 20
p0 −2.191 ± 0.02031
−2.1
−2.15
−2.2
−2.25
−2.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 21
Mean 10.5
Std Dev 6.055

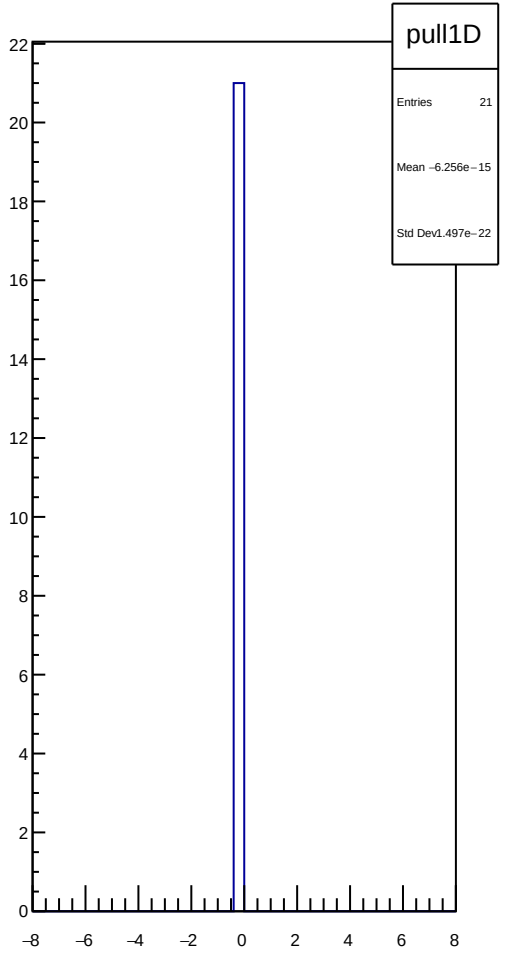

pull1D
Entries 21
Mean −4.773e−15
Std Dev1.401e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

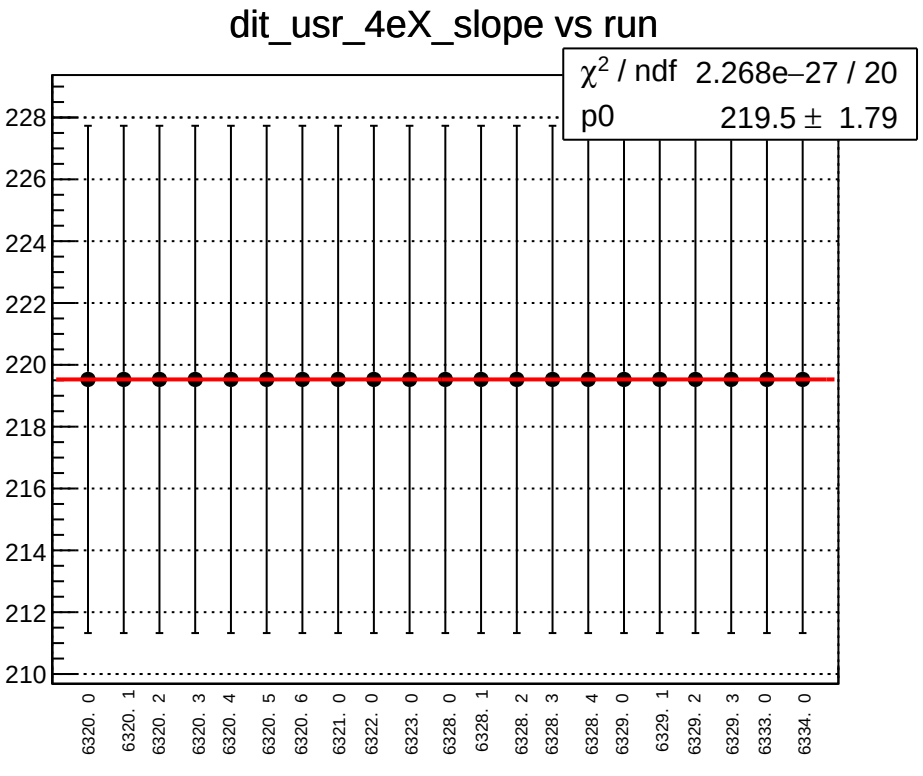

dit_usl_4eY_slope vs run
χ² / ndf 0 / 20
p0 21.07 ± 0.189
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

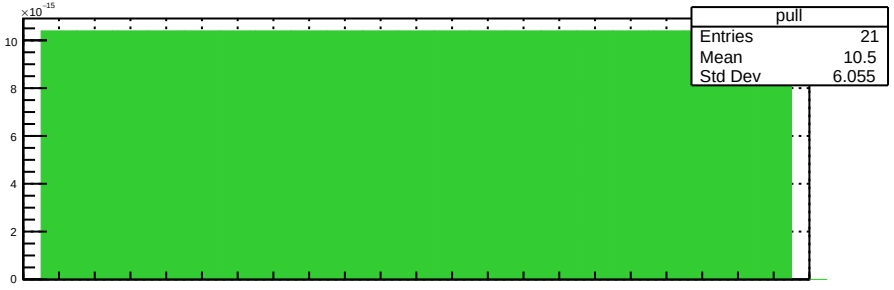

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

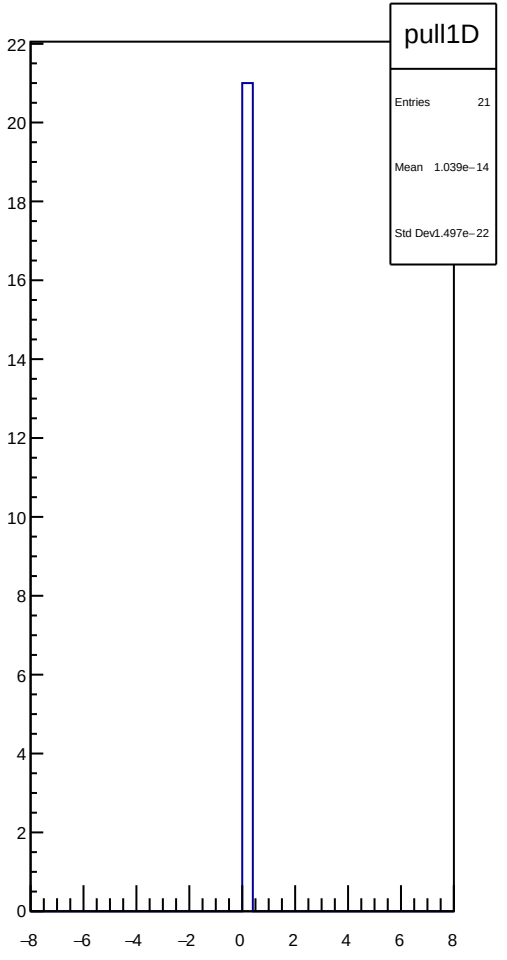

dit_usr_4aX_slope vs run
χ² / ndf 8.219e−28 / 20
p0 −149.9 ± 1.983
−140
−145
−150
−155
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

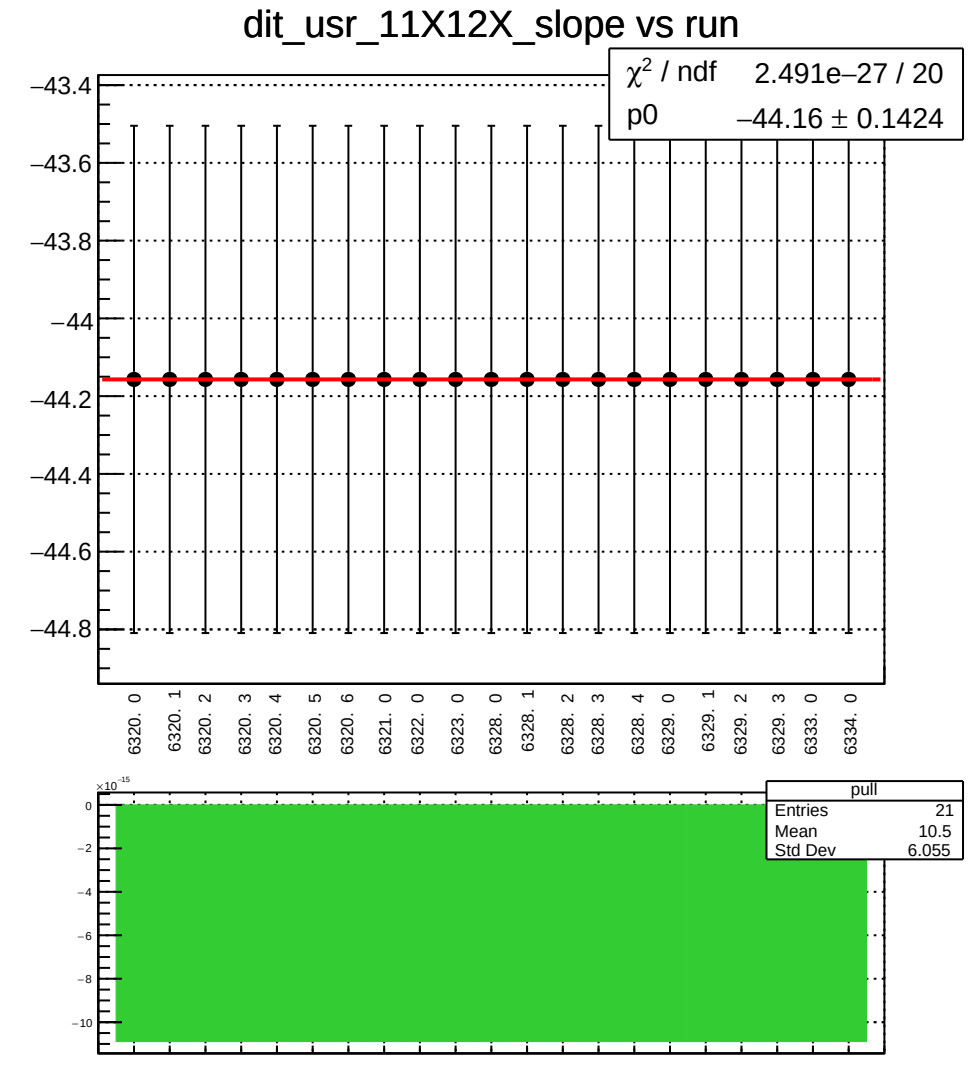

×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 21
Mean 10.5
Std Dev 6.055

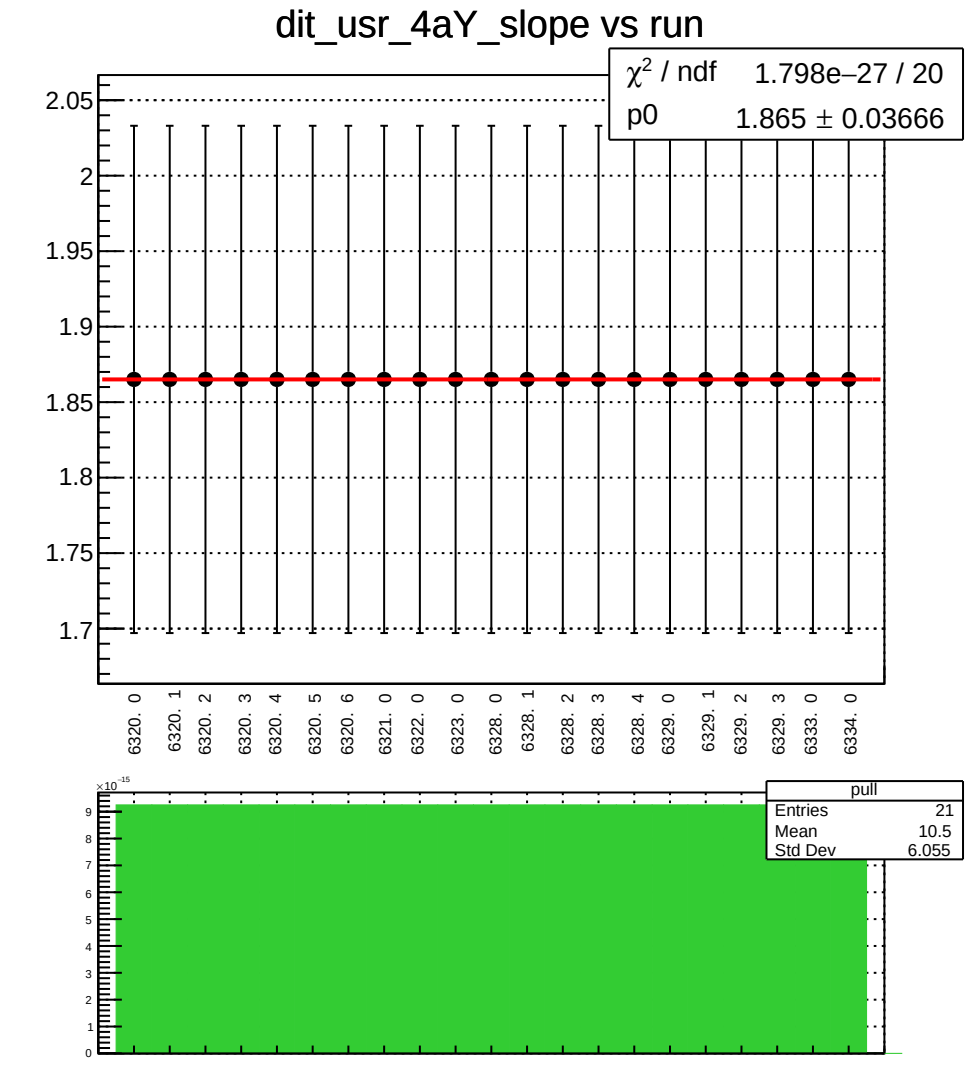

pull1D
Entries 21
Mean −6.256e−15
Std Dev1.497e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

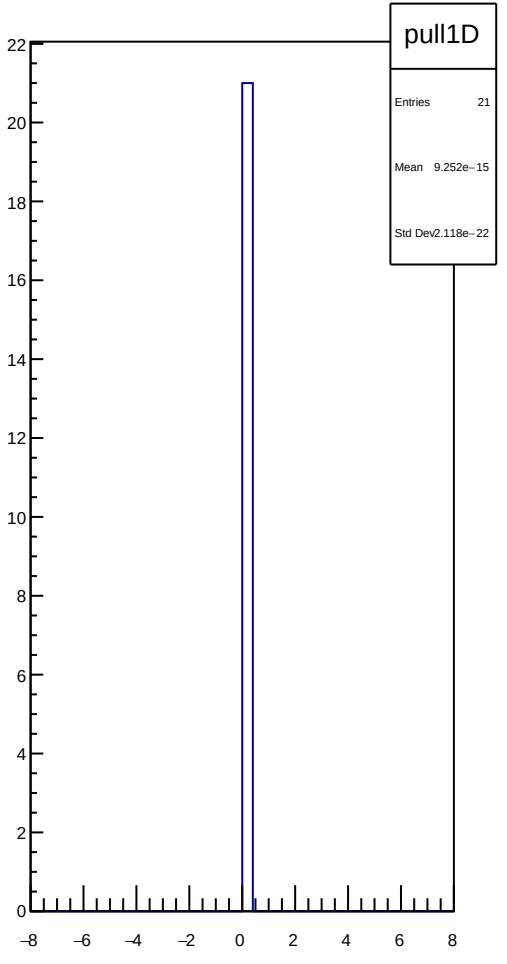

dit_usr_4eX_slope vs run
χ² / ndf 2.268e−27 / 20
p0 219.5 ± 1.79
228
226
224
222
220
218
216
214
212
210
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

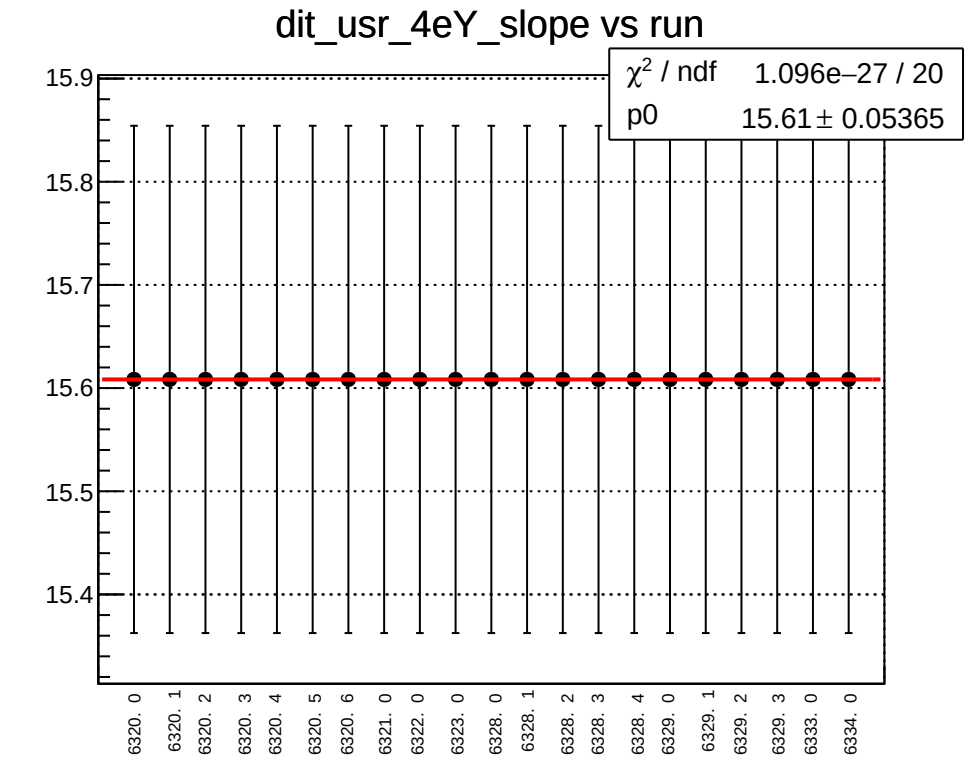

×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

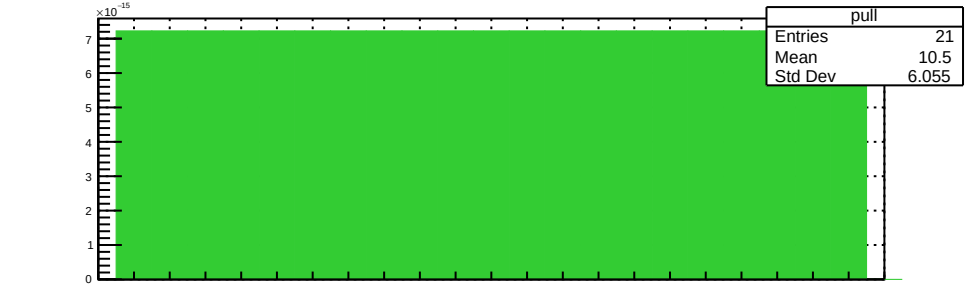

pull1D
Entries 21
Mean 1.039e−14
Std Dev1.497e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

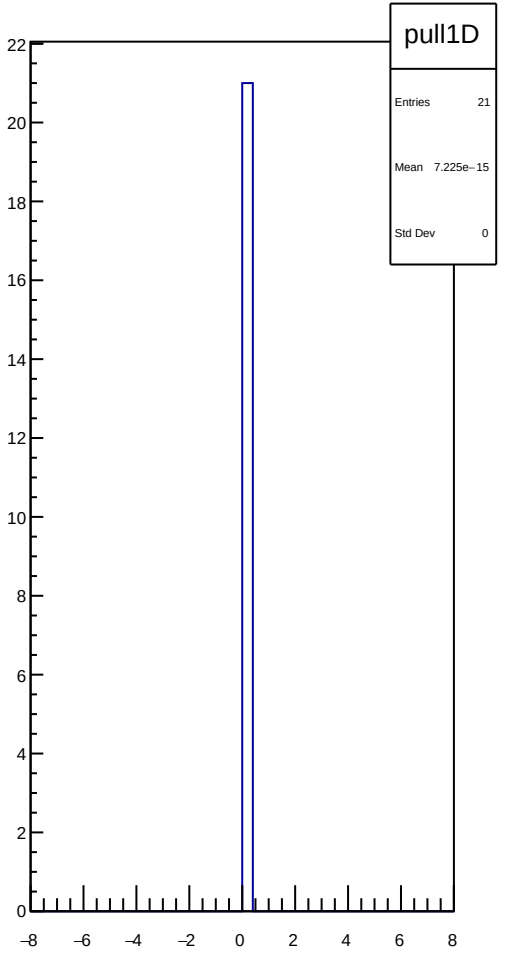

dit_usr_11X12X_slope vs run
χ² / ndf 2.491e−27 / 20
p0 −44.16 ± 0.1424
−43.4
−43.6
−43.8
−44
−44.2
−44.4
−44.6
−44.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean −1.089e−14
Std Dev 0

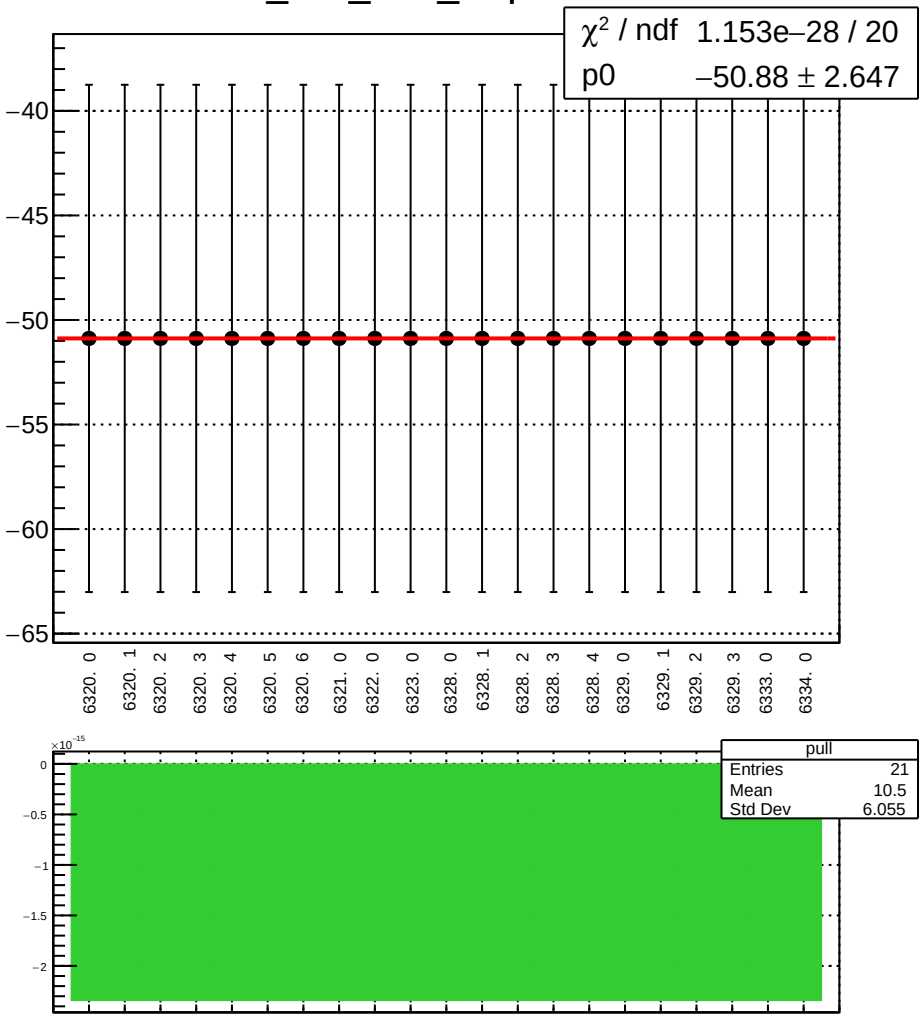

dit_usr_4aY_slope vs run
χ² / ndf 1.798e−27 / 20
p0 1.865 ± 0.03666
2.05
2
1.95
1.9
1.85
1.8
1.75
1.7
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

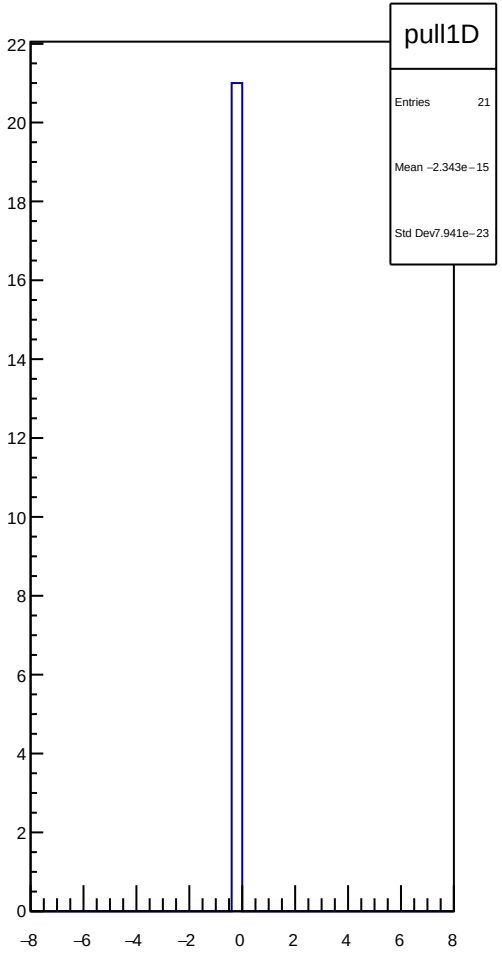

pull1D
Entries 21
Mean 9.252e−15
Std Dev2.118e−22

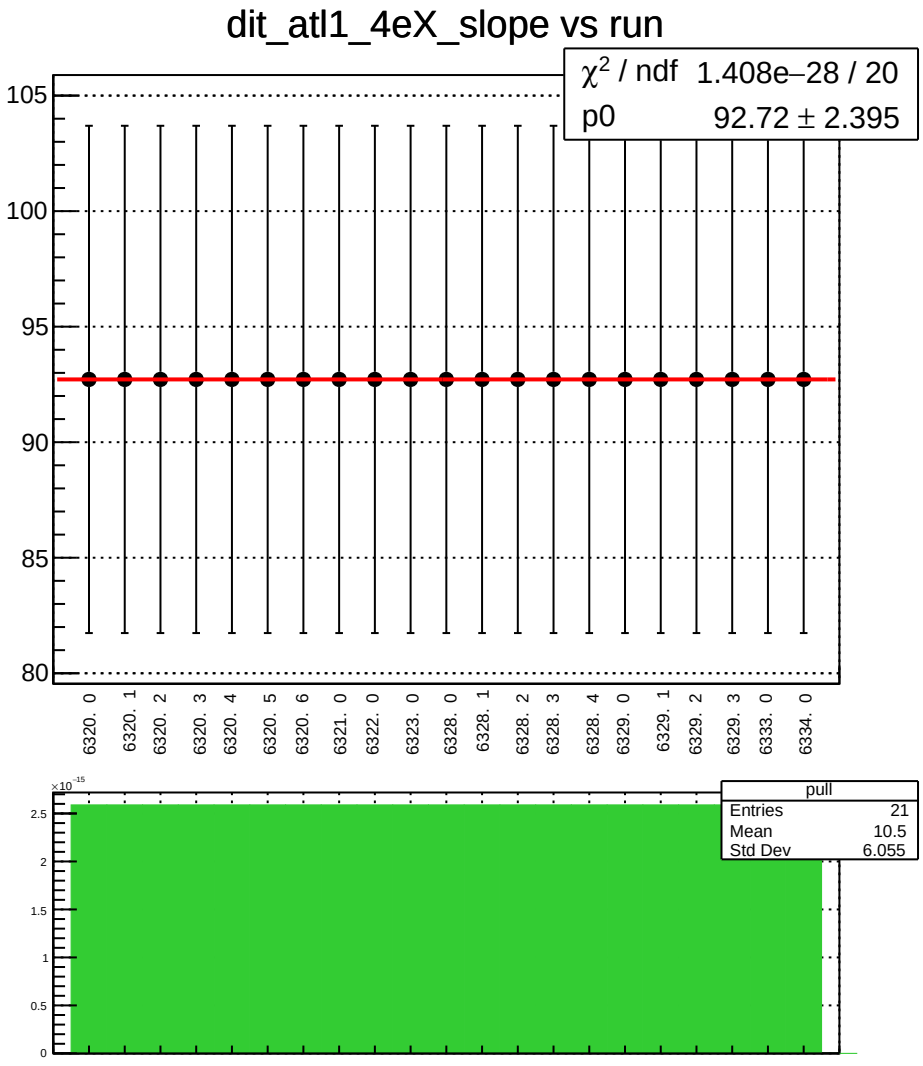

dit_usr_4eY_slope vs run
χ² / ndf 1.096e−27 / 20
p0 15.61 ± 0.05365
15.9
15.8
15.7
15.6
15.5
15.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

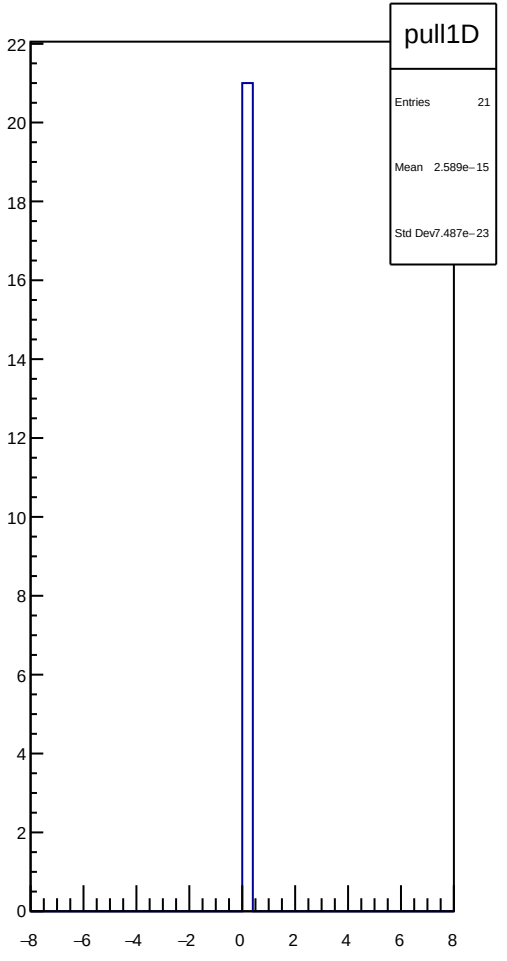

×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

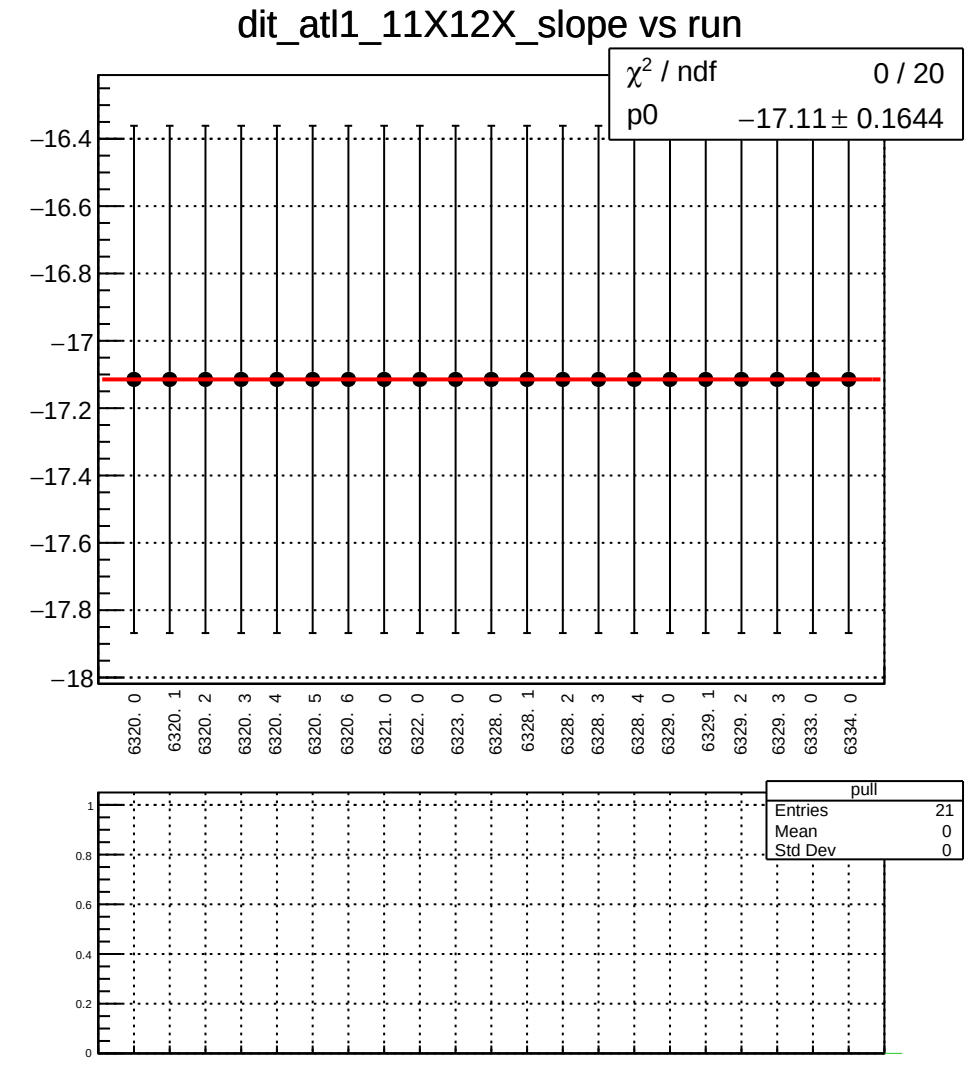

pull1D
Entries 21
Mean 7.225e−15
Std Dev 0

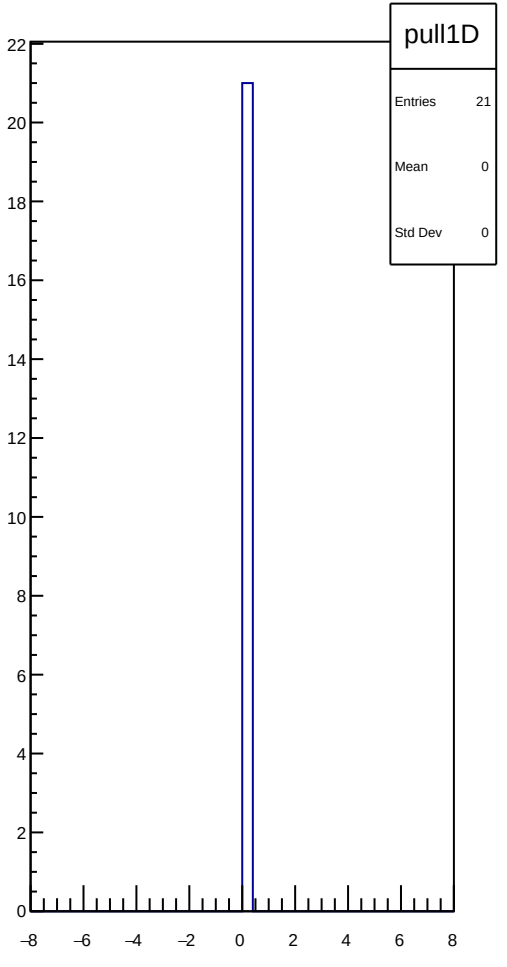

dit_atl1_4aX_slope vs run
χ² / ndf 1.153e−28 / 20
p0 −50.88 ± 2.647
−40
−45
−50
−55
−60
−65
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 21
Mean 10.5
Std Dev 6.055

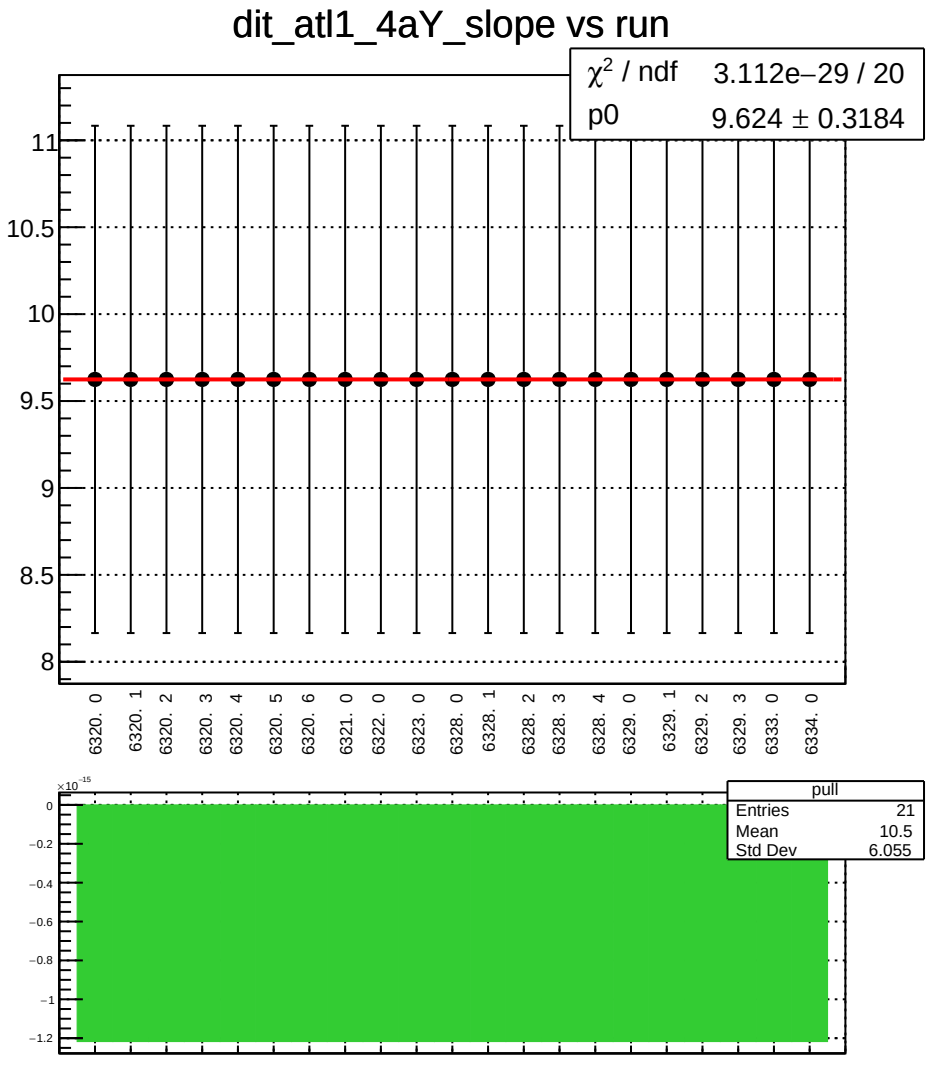

pull1D
Entries 21
Mean −2.343e−15
Std Dev7.941e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

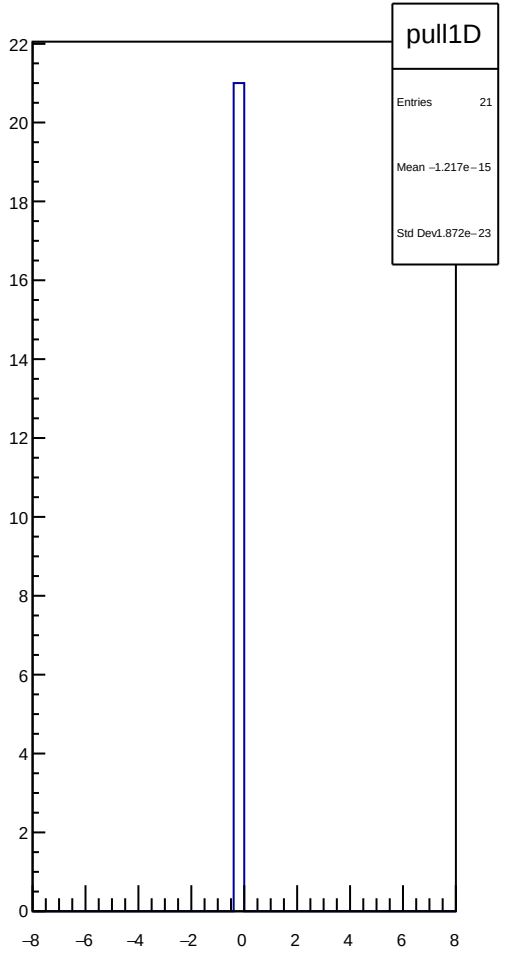

dit_atl1_4eX_slope vs run
χ² / ndf 1.408e−28 / 20
p0 92.72 ± 2.395
105
100
95
90
85
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

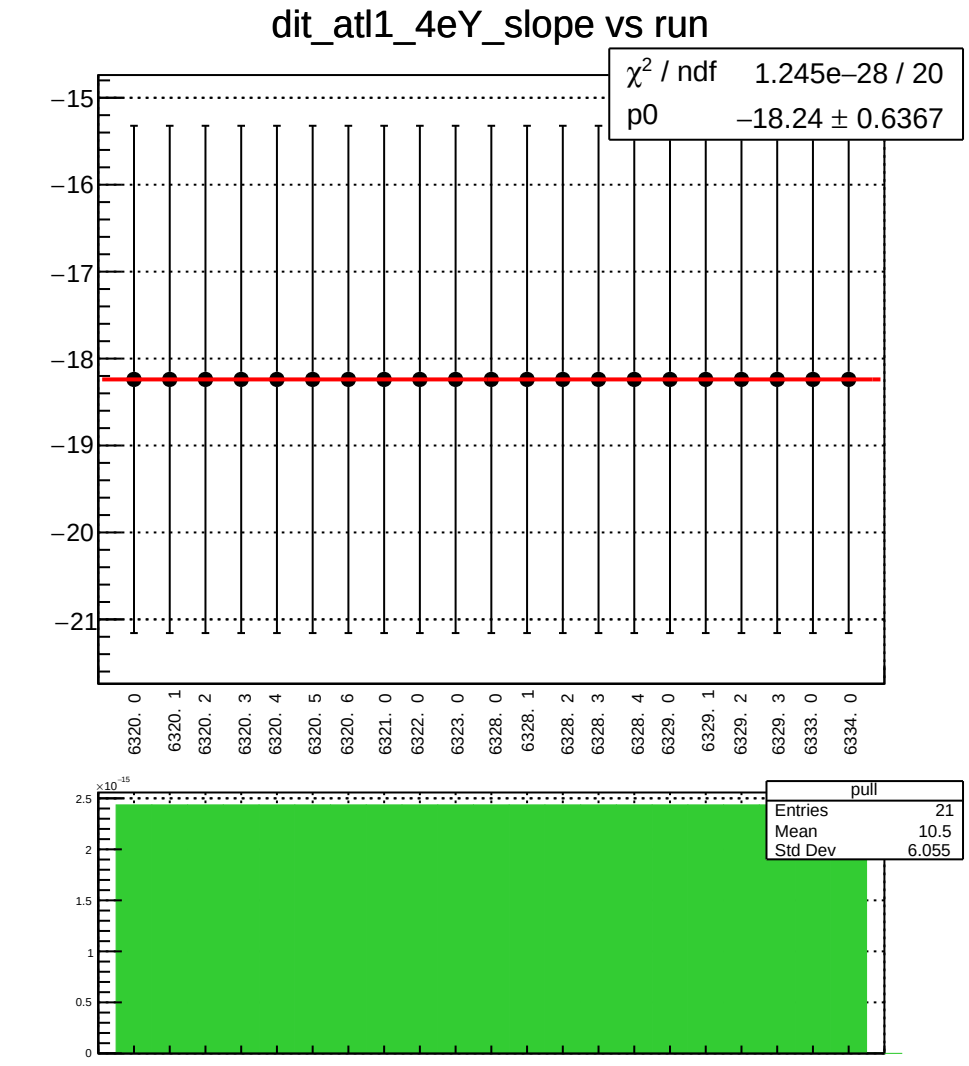

pull1D
Entries 21
Mean 2.589e−15
Std Dev7.487e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

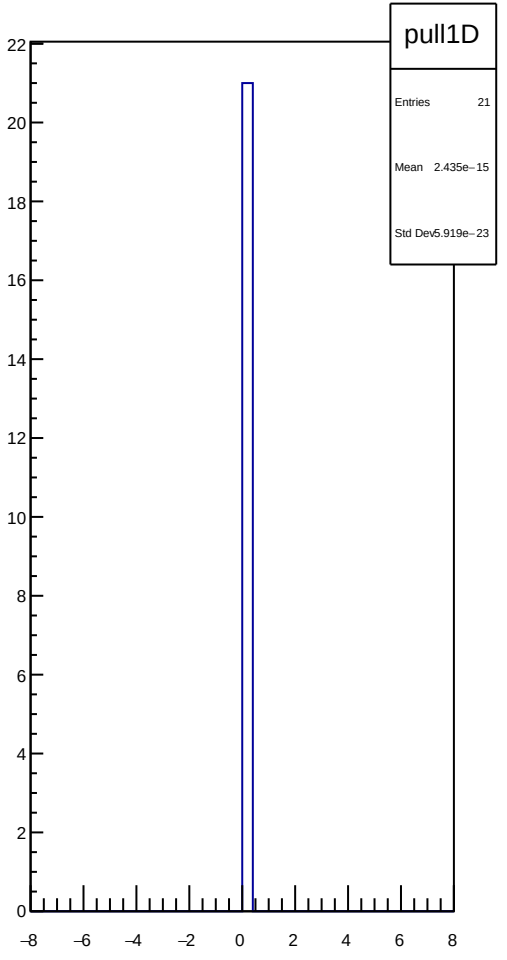

dit_atl1_11X12X_slope vs run
χ² / ndf 0 / 20
p0 −17.11 ± 0.1644
−16.4
−16.6
−16.8
−17
−17.2
−17.4
−17.6
−17.8
−18
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

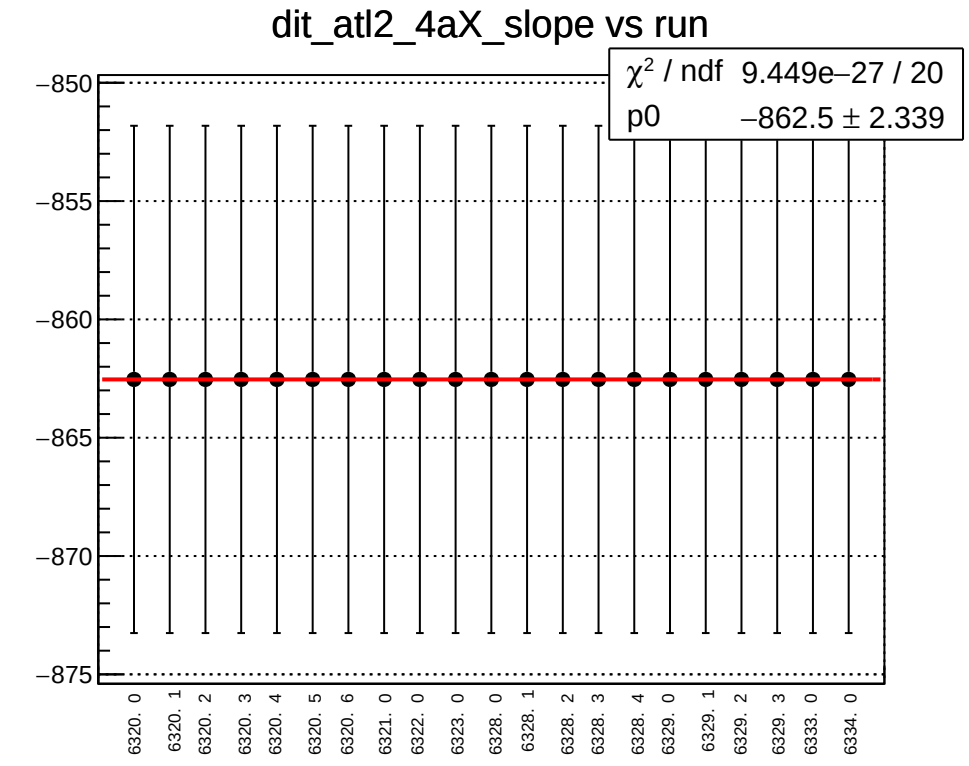

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

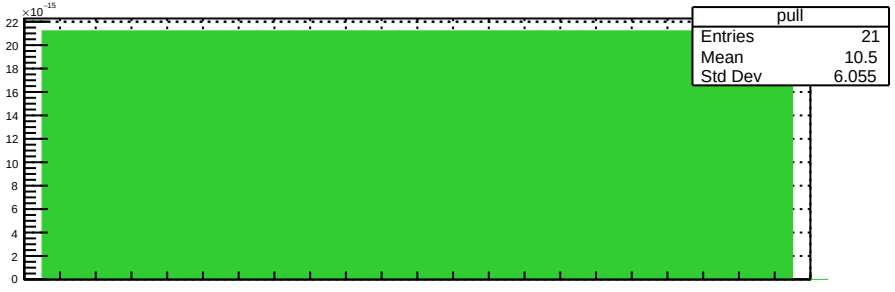

dit_atl1_4aY_slope vs run
χ² / ndf 3.112e−29 / 20
p0 9.624 ± 0.3184
11
10.5
10
9.5
9
8.5
8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 21
Mean 10.5
Std Dev 6.055

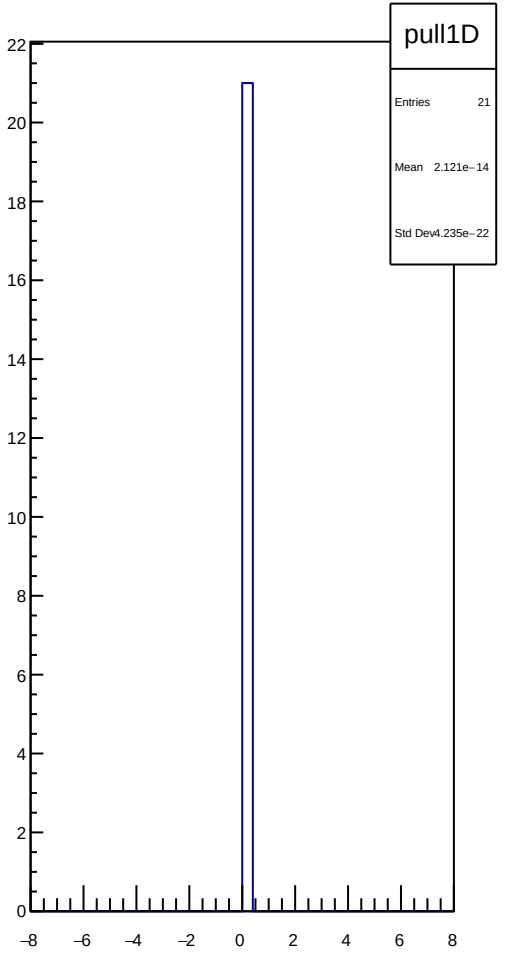

pull1D
Entries 21
Mean −1.217e−15
Std Dev1.872e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

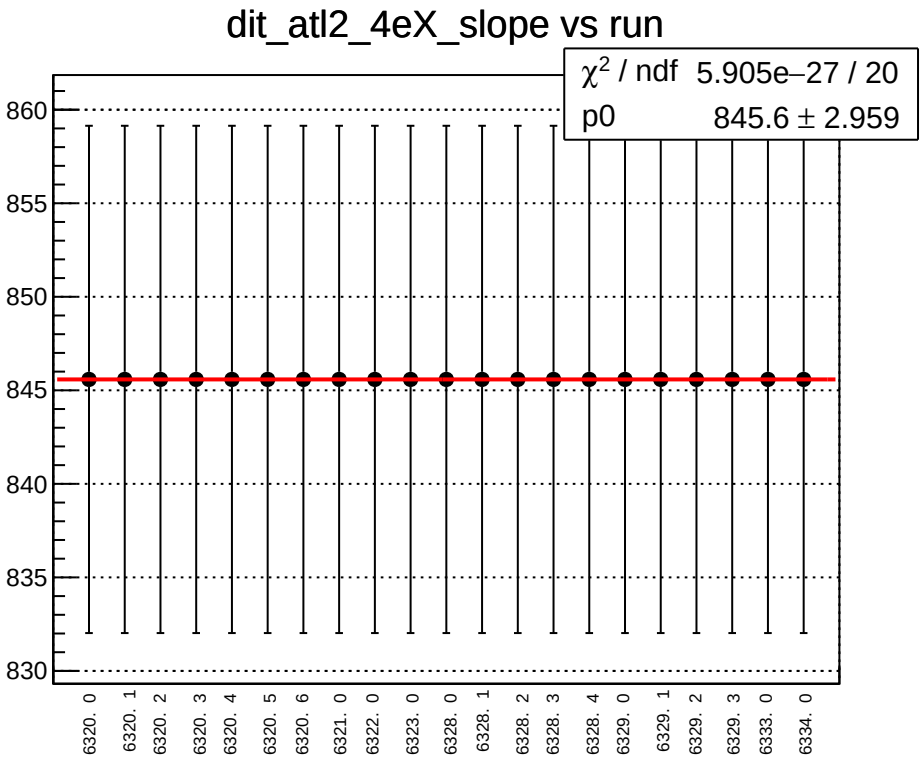

dit_atl1_4eY_slope vs run
χ² / ndf 1.245e−28 / 20
p0 −18.24 ± 0.6367
−15
−16
−17
−18
−19
−20
−21
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

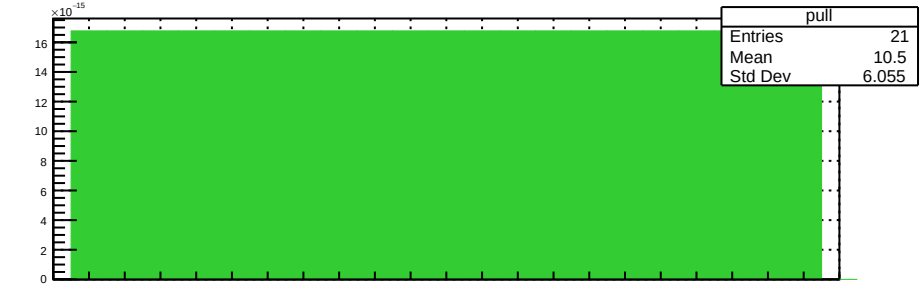

pull1D
Entries 21
Mean 2.435e−15
Std Dev 5.919e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

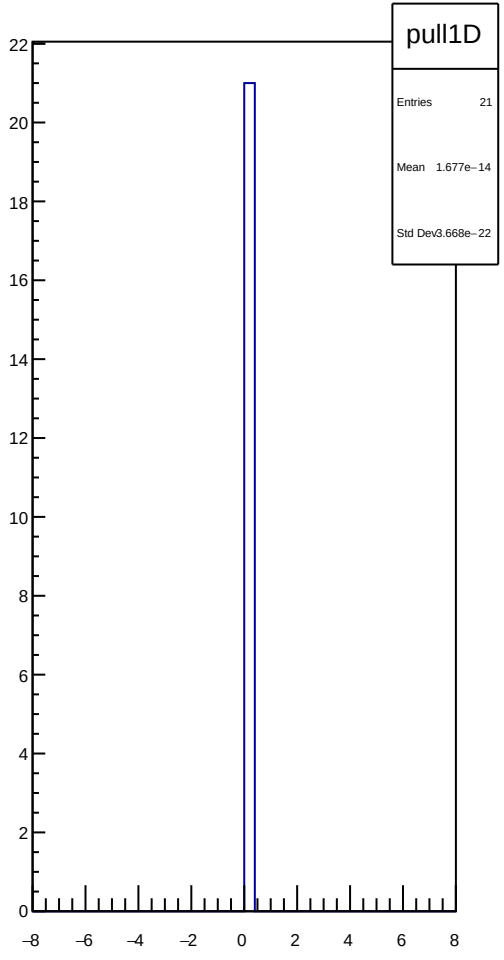

dit_atl2_4aX_slope vs run
χ² / ndf 9.449e−27 / 20
p0 −862.5 ± 2.339
−850
−855
−860
−865
−870
−875
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

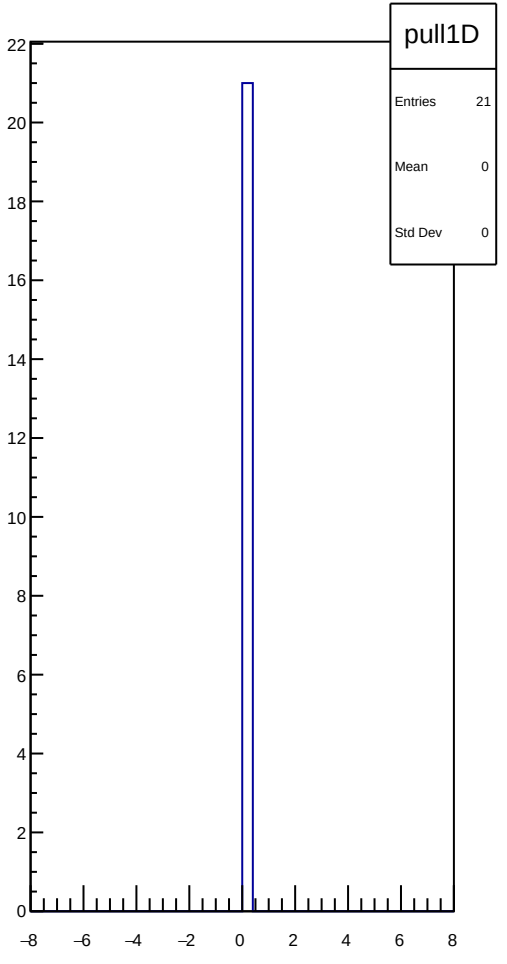

pull1D
Entries 21
Mean 2.121e−14
Std Dev4.235e−22

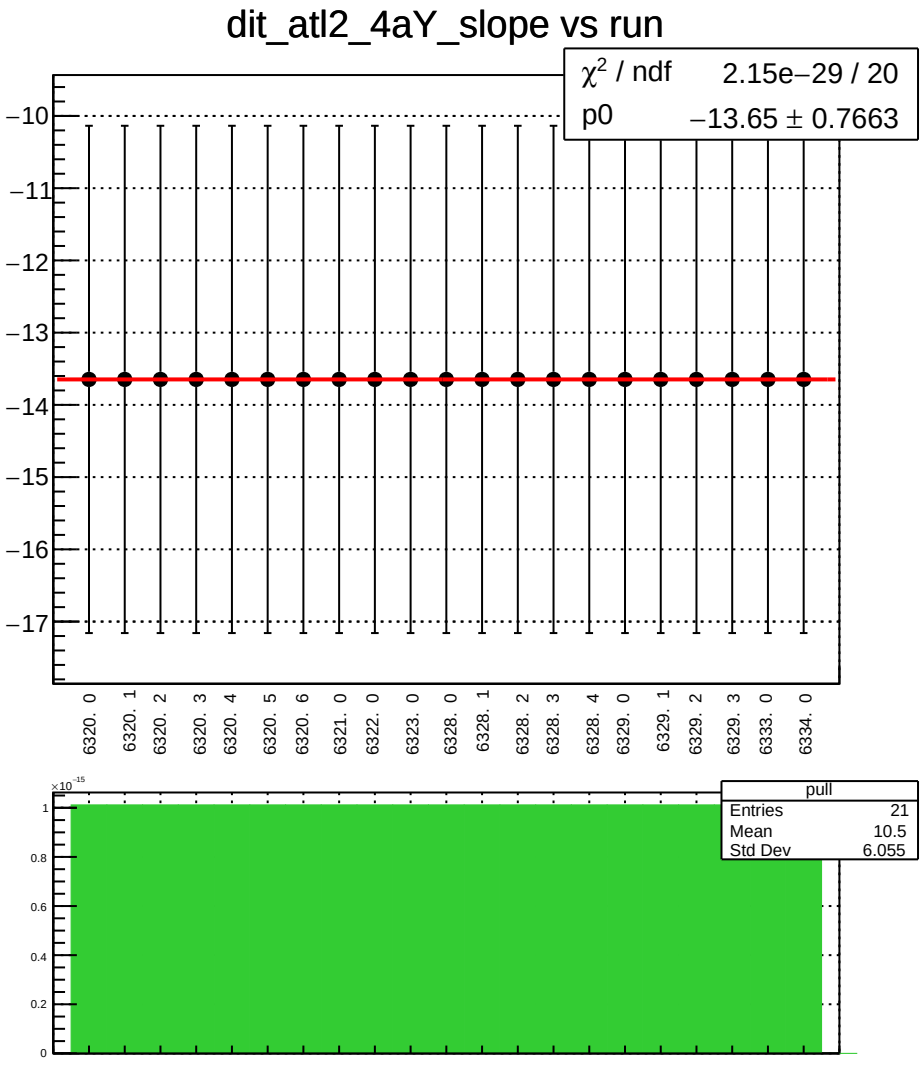

dit_atl2_4eX_slope vs run
χ² / ndf 5.905e−27 / 20
p0 845.6 ± 2.959
860
855
850
845
840
835
830
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

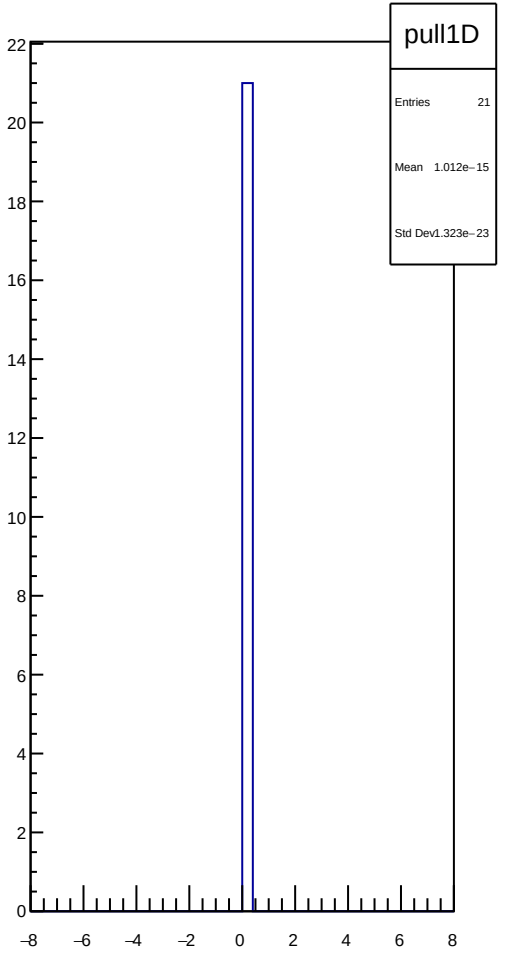

×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

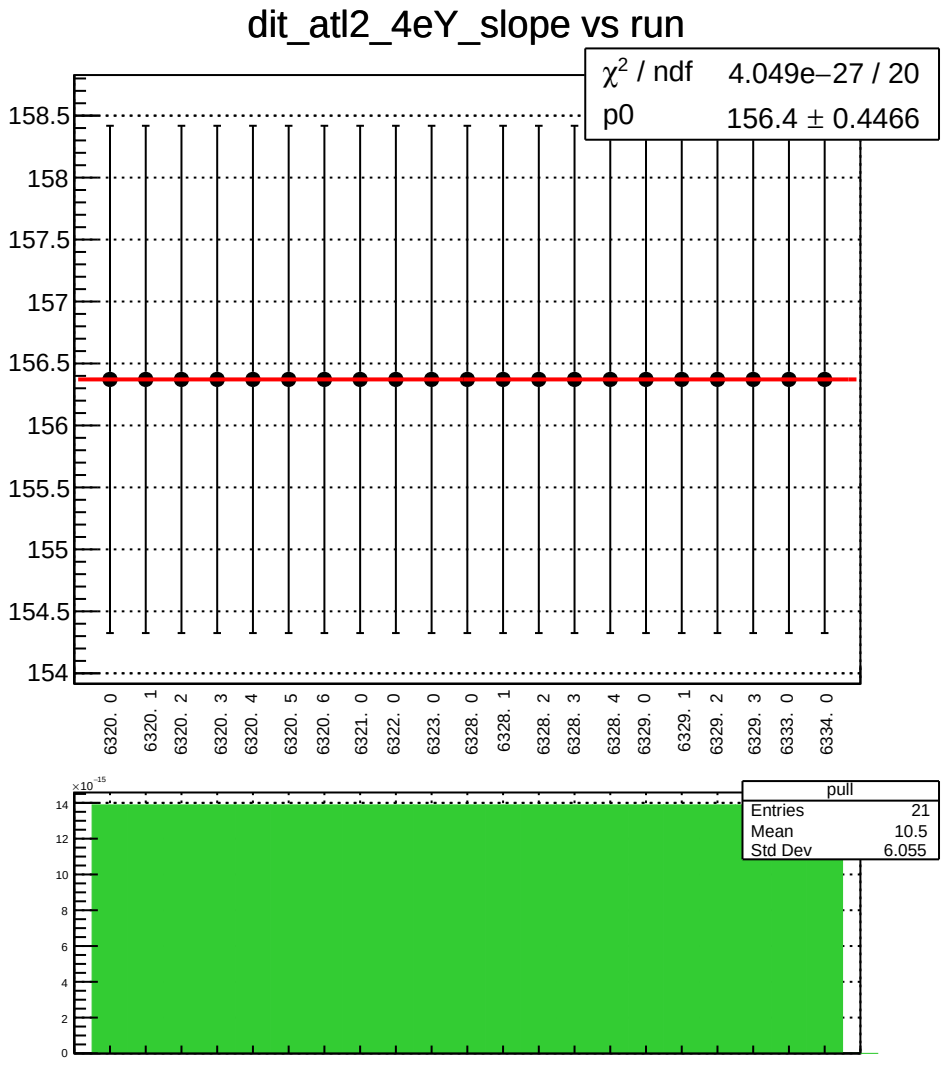

pull1D
Entries 21
Mean 1.677e−14
Std Dev3.668e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

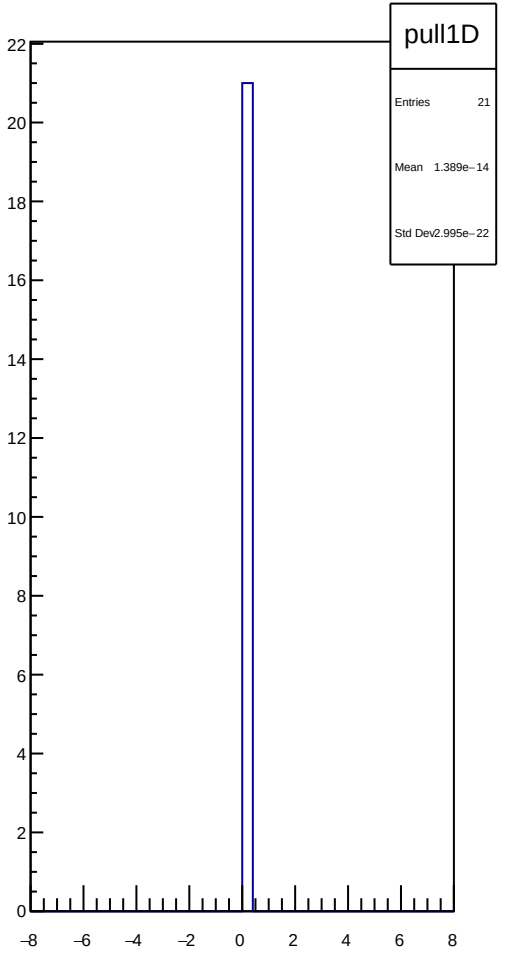
dit_atl2_11X12X_slope vs run
χ² / ndf 0 / 20
p0 −293.8 ± 1.004
−290
−292
−294
−296
−298
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

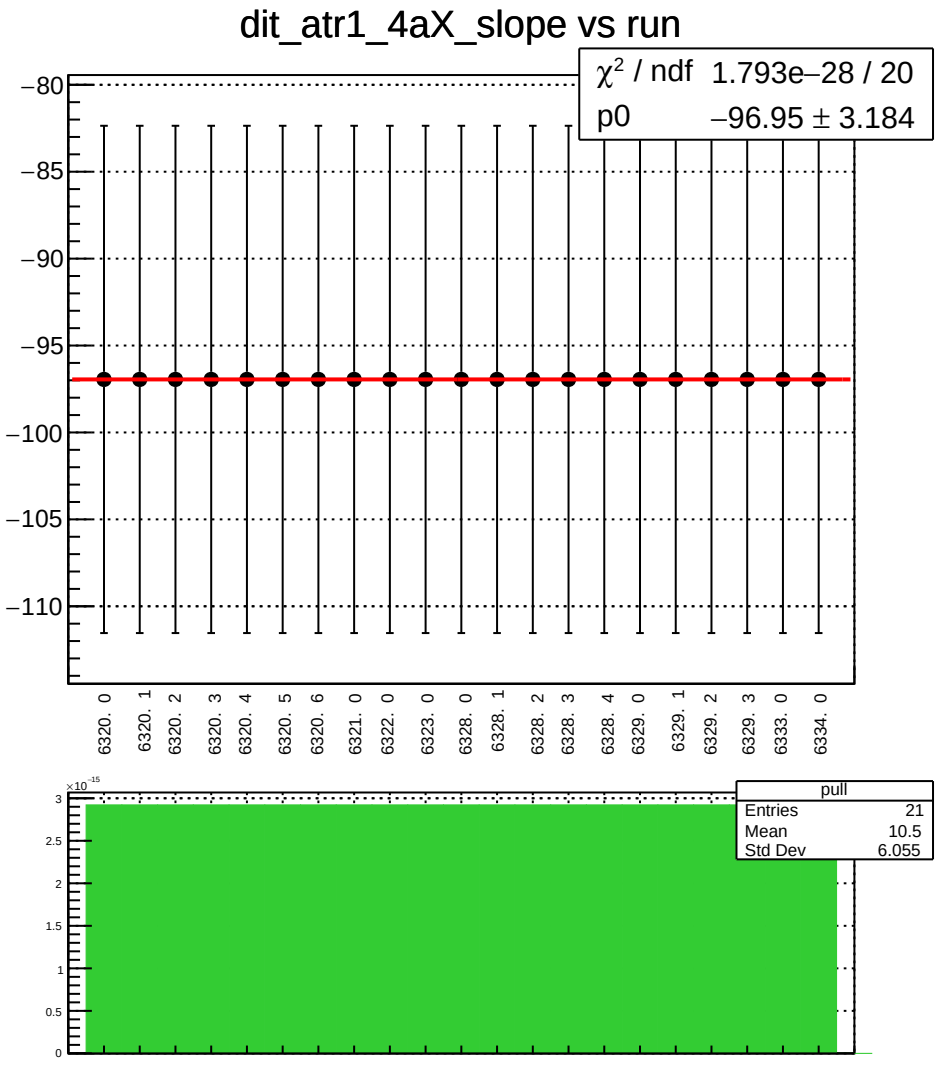

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

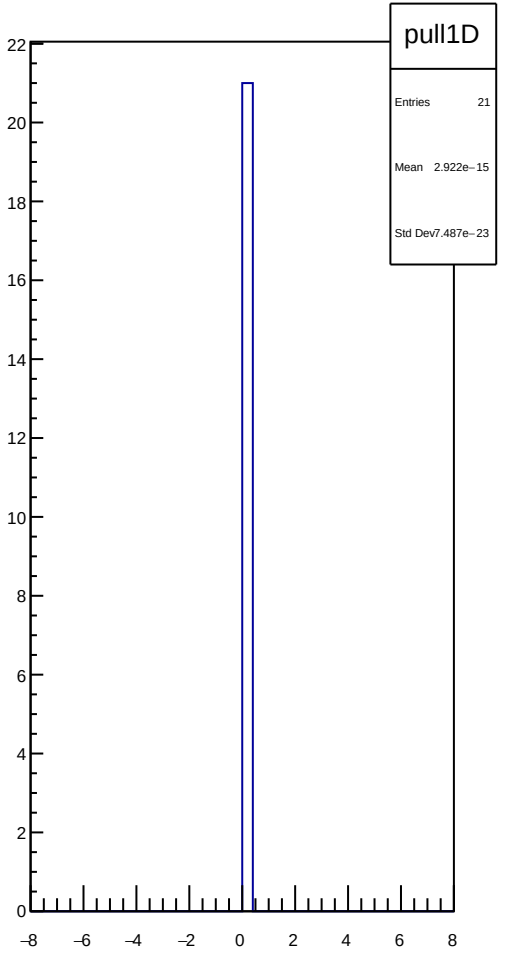

dit_atl2_4aY_slope vs run
χ² / ndf 2.15e−29 / 20
p0 −13.65 ± 0.7663
−10
−11
−12
−13
−14
−15
−16
−17
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055
1
0.8
0.6
0.4
0.2
0

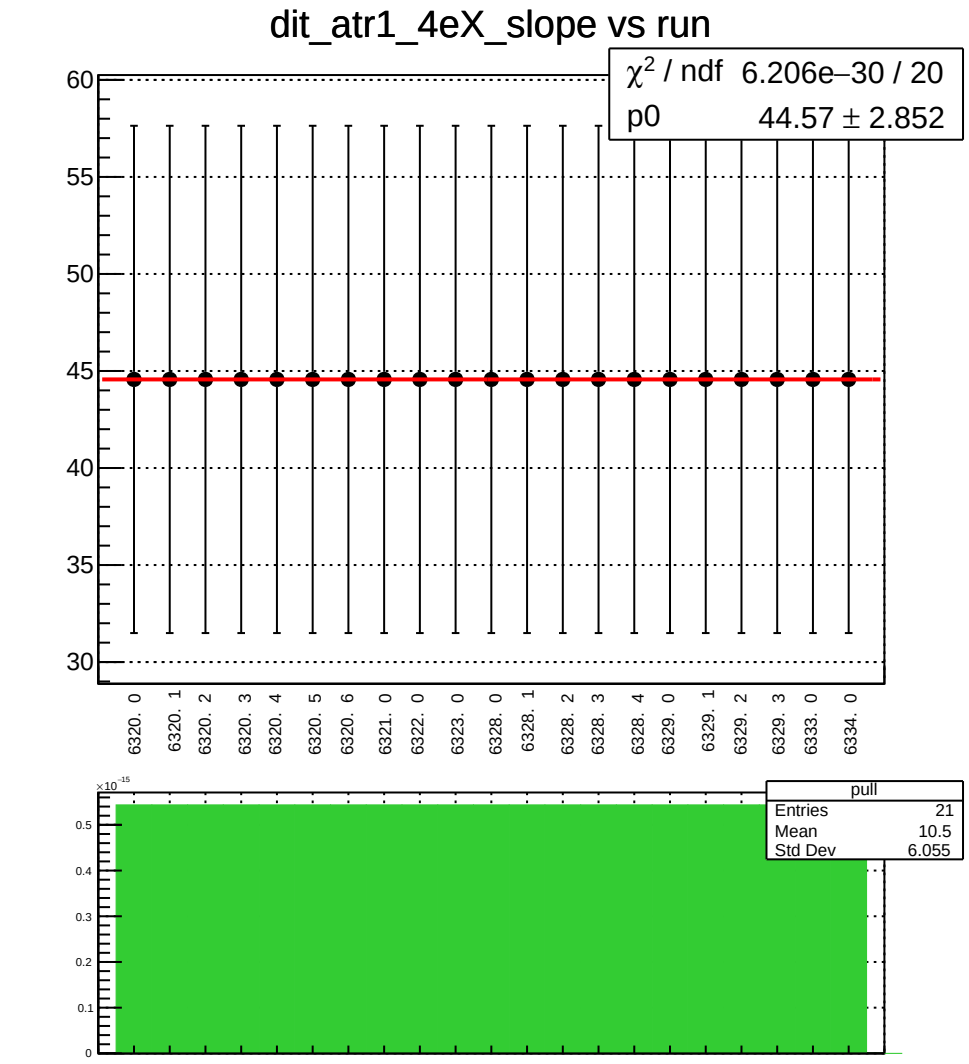

pull1D
Entries 21
Mean 1.012e−15
Std Dev1.323e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

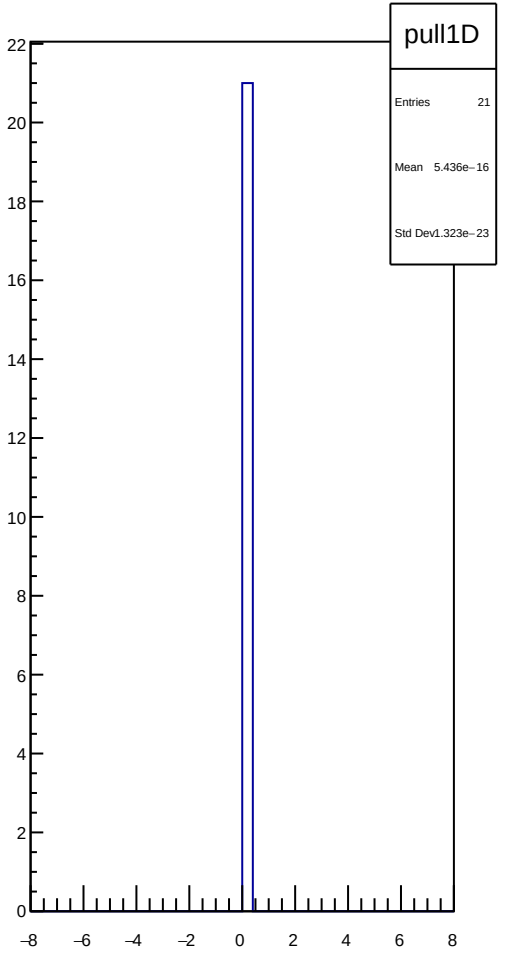

dit_atl2_4eY_slope vs run
χ² / ndf 4.049e−27 / 20
p0 156.4 ± 0.4466
158.5
158
157.5
157
156.5
156
155.5
155
154.5
154
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

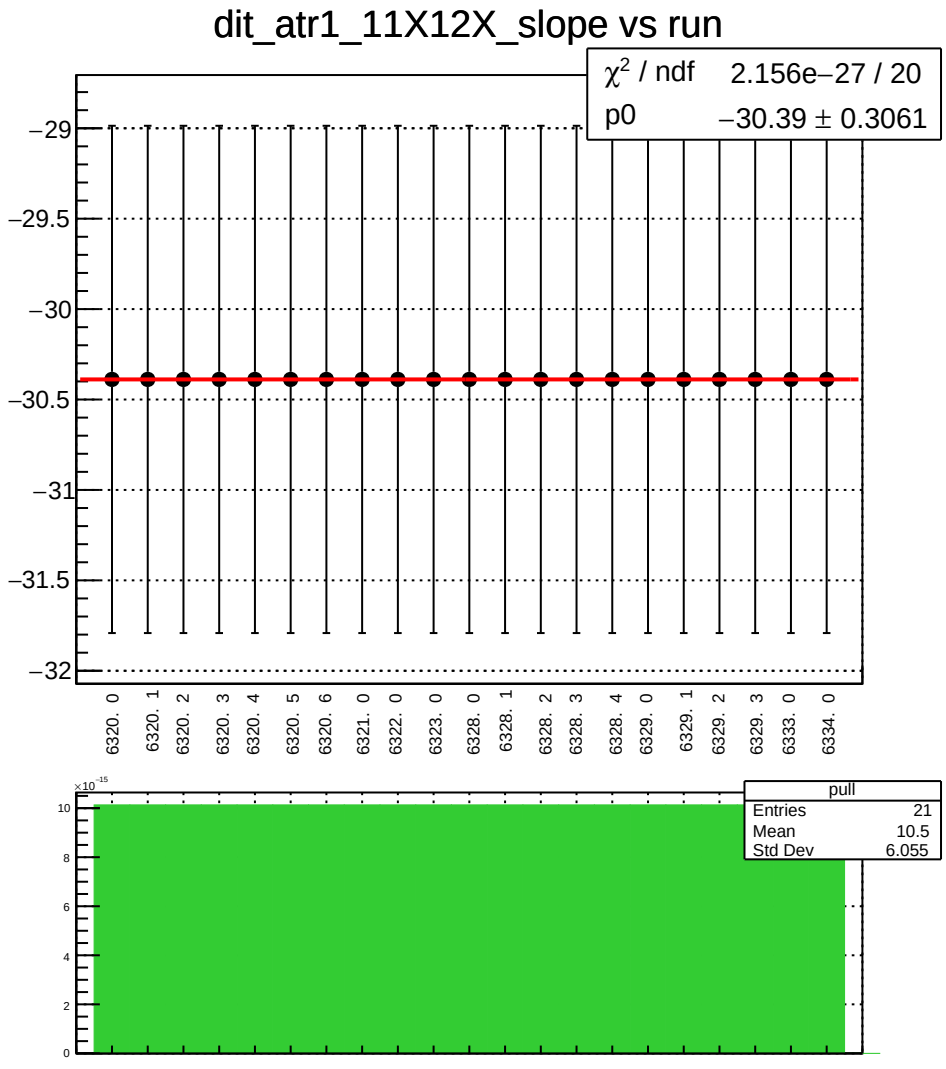

pull1D
Entries 21
Mean 1.389e−14
Std Dev 2.995e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

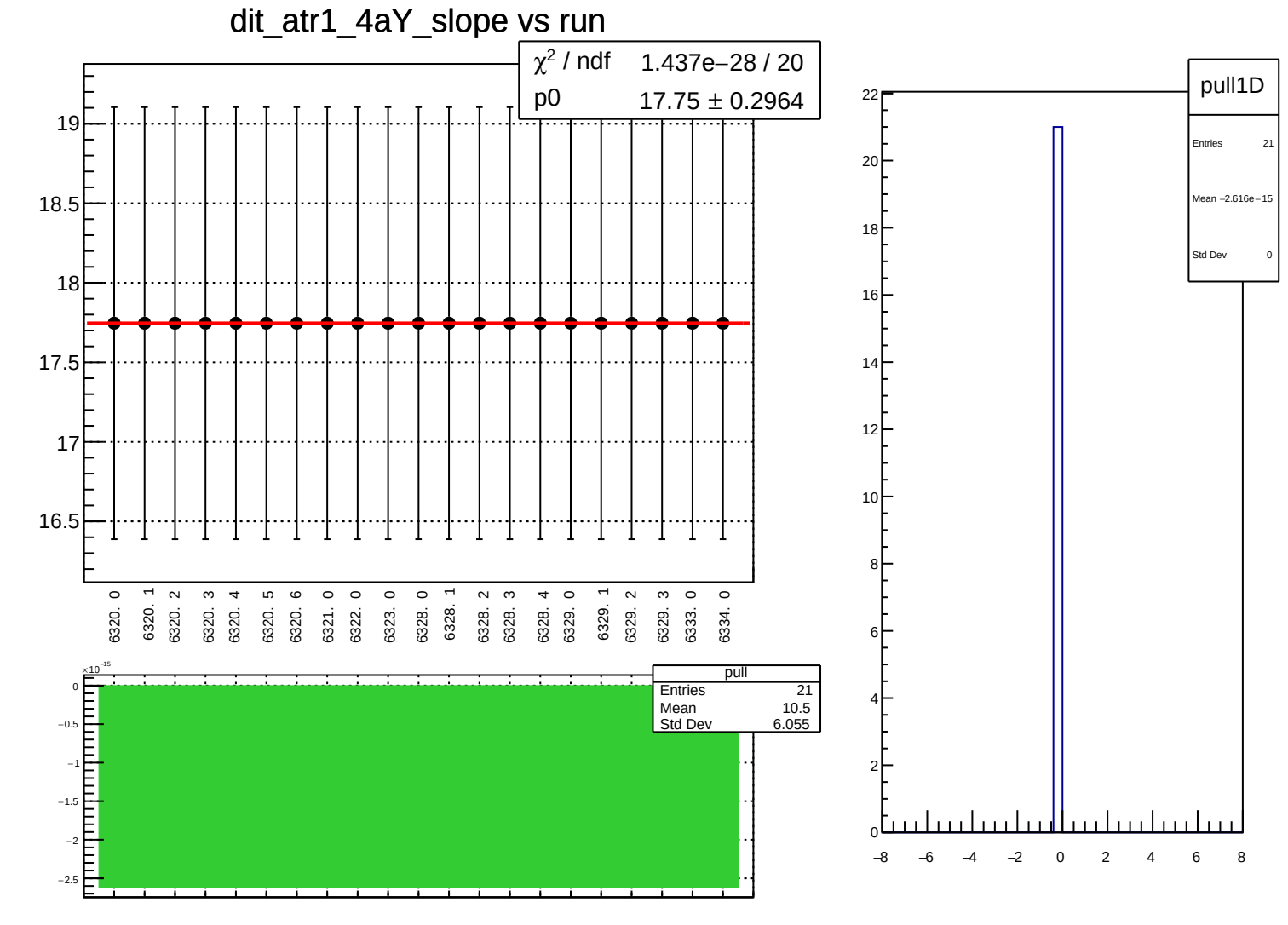

dit_atr1_4aX_slope vs run
χ² / ndf 1.793e−28 / 20
p0 −96.95 ± 3.184
−80
−85
−90
−95
−100
−105
−110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

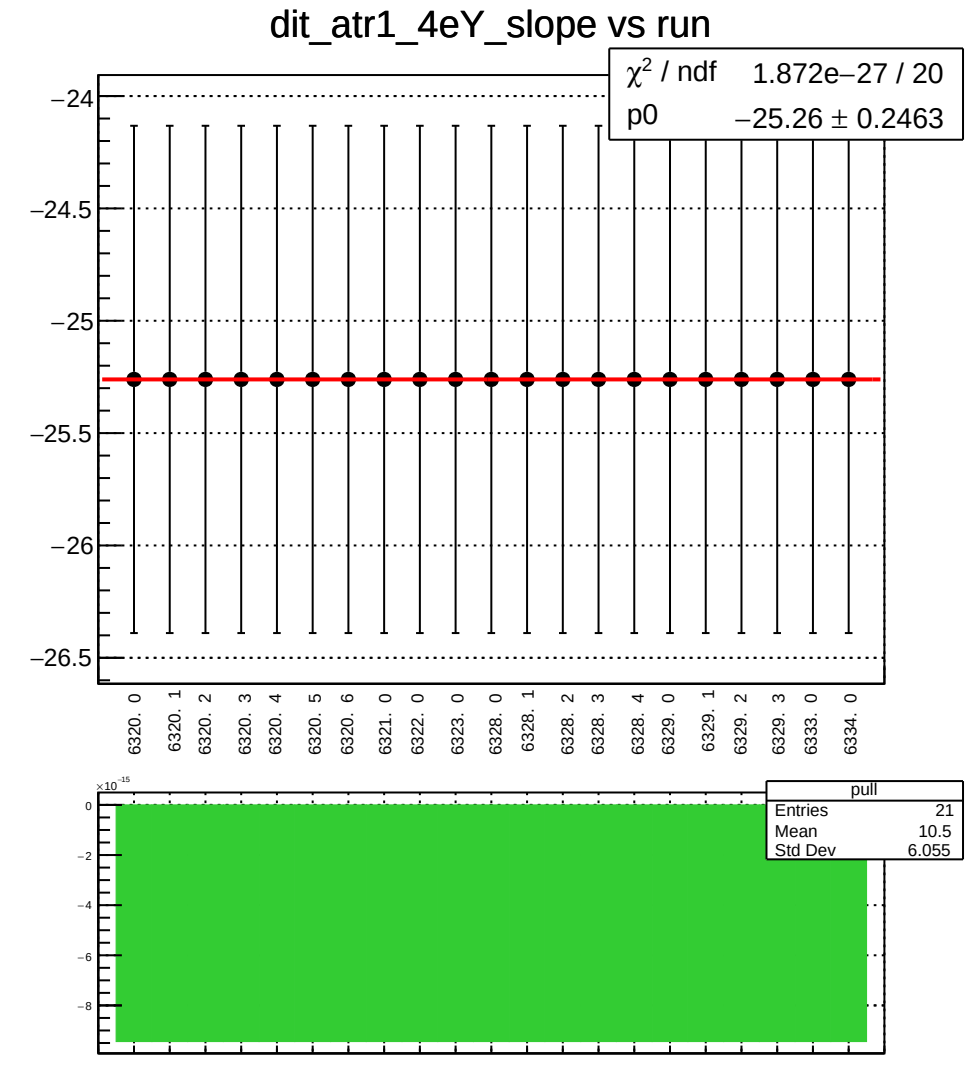

pull1D
Entries 21
Mean 2.922e−15
Std Dev7.487e−23

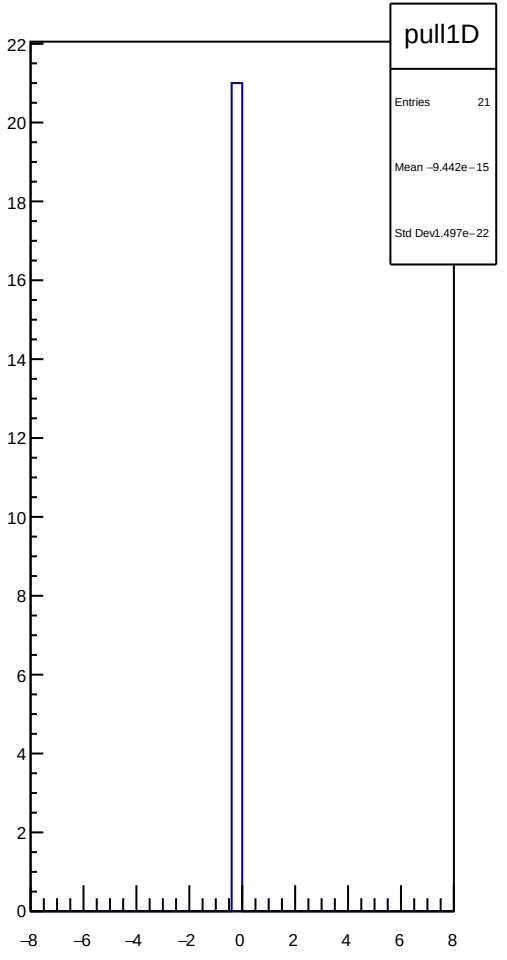

dit_atr1_4eX_slope vs run
χ² / ndf 6.206e−30 / 20
p0 44.57 ± 2.852
60
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

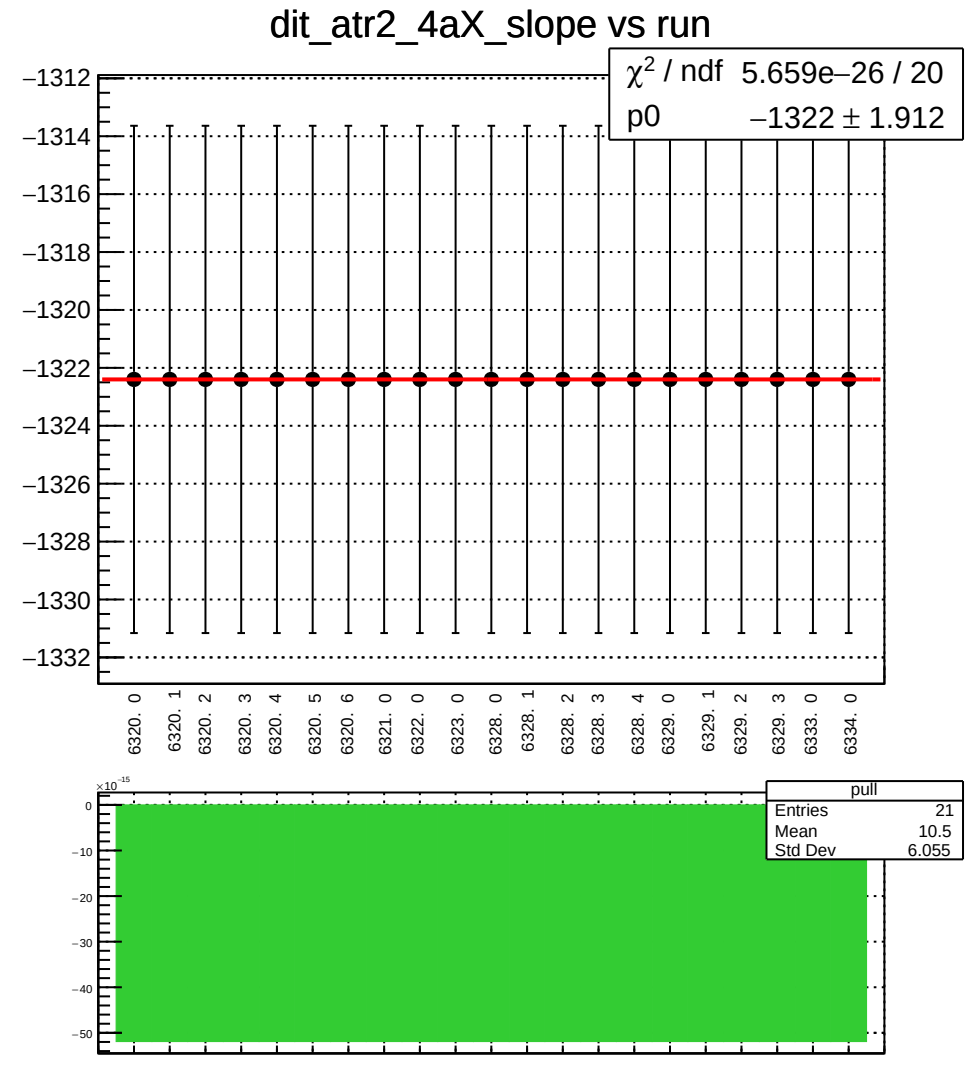

pull1D
Entries 21
Mean 5.436e−16
Std Dev1.323e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

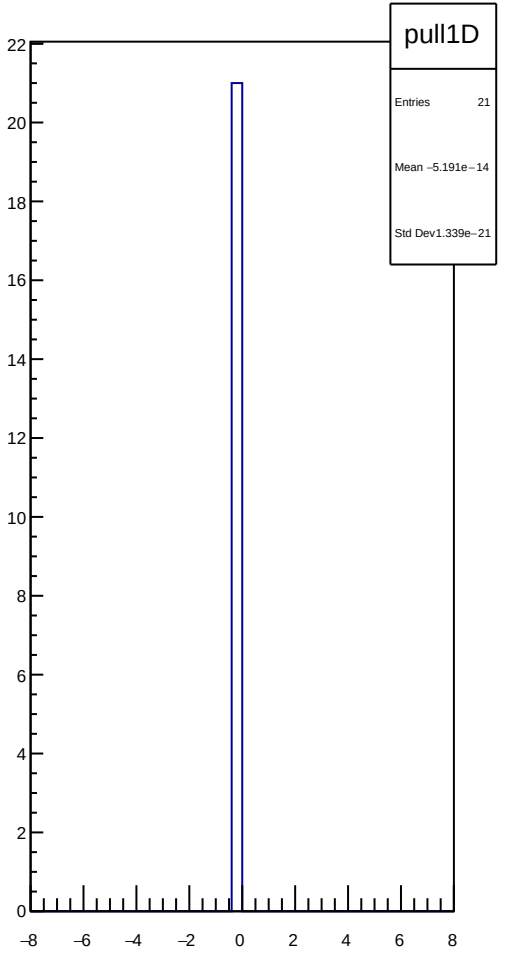

dit_atr1_11X12X_slope vs run
χ² / ndf 2.156e−27 / 20
p0 −30.39 ± 0.3061
−29
−29.5
−30
−30.5
−31
−31.5
−32
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean 1.013e−14
Std Dev1.497e−22

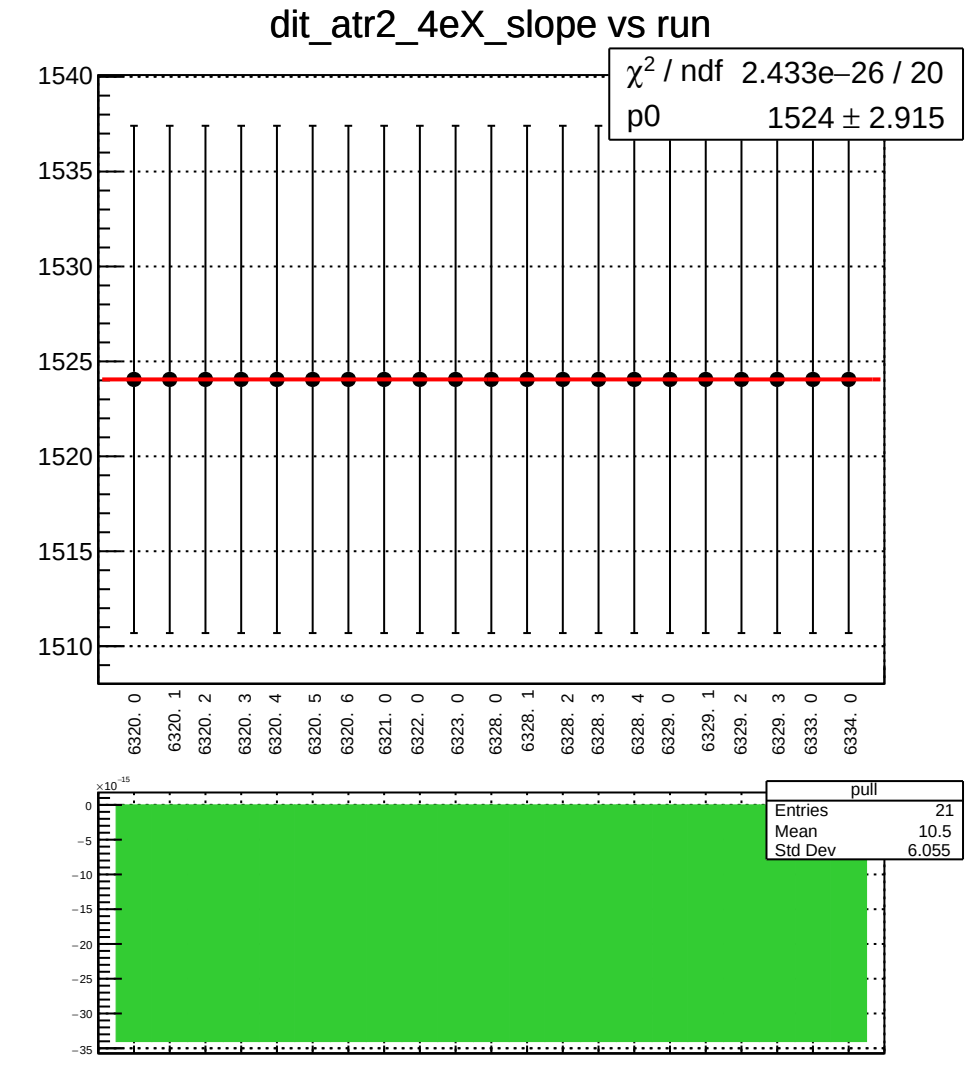

dit_atr1_4aY_slope vs run
χ² / ndf 1.437e−28 / 20
p0 17.75 ± 0.2964
19
18.5
18
17.5
17
16.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean −2.616e−15
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

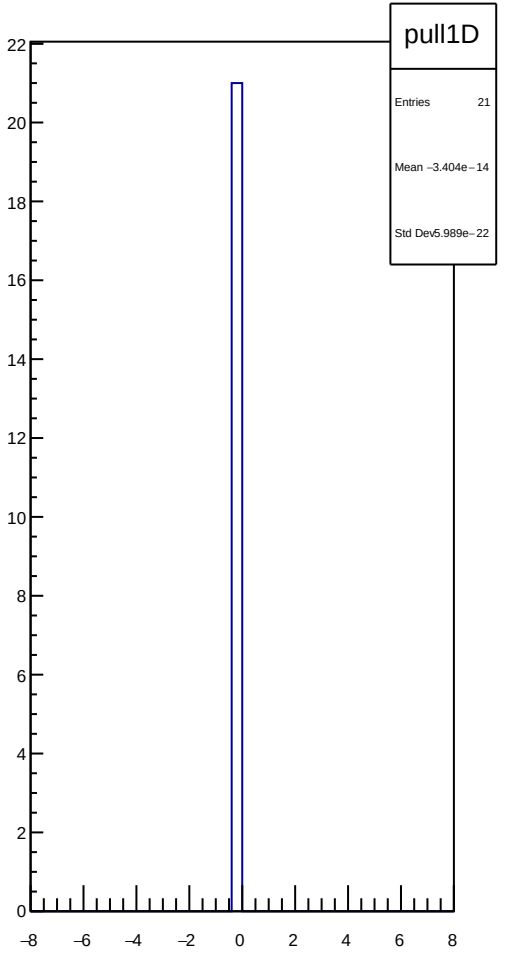

dit_atr1_4eY_slope vs run
χ² / ndf 1.872e−27 / 20
p0 −25.26 ± 0.2463
−24
−24.5
−25
−25.5
−26
−26.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−2
−4
−6
−8
pull
Entries 21
Mean 10.5
Std Dev 6.055

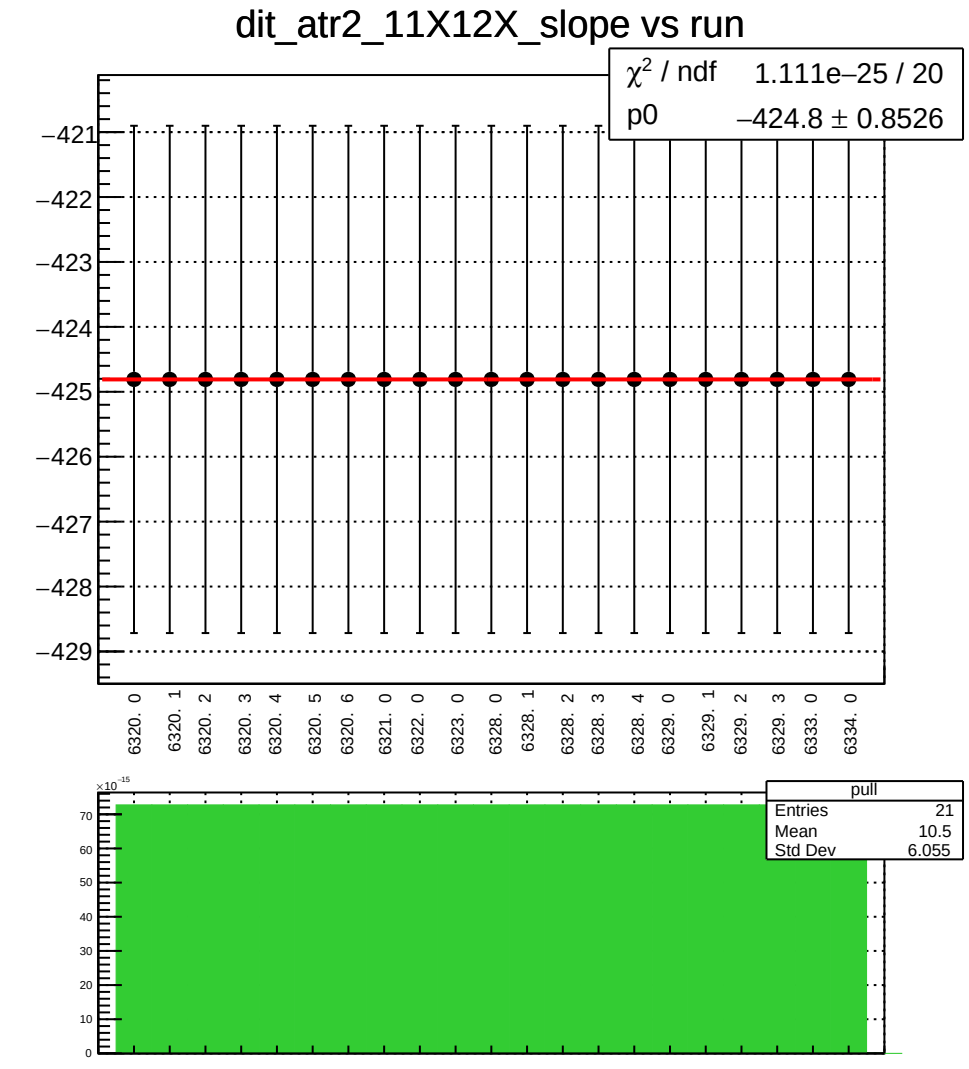

pull1D
Entries 21
Mean −9.442e−15
Std Dev1.497e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

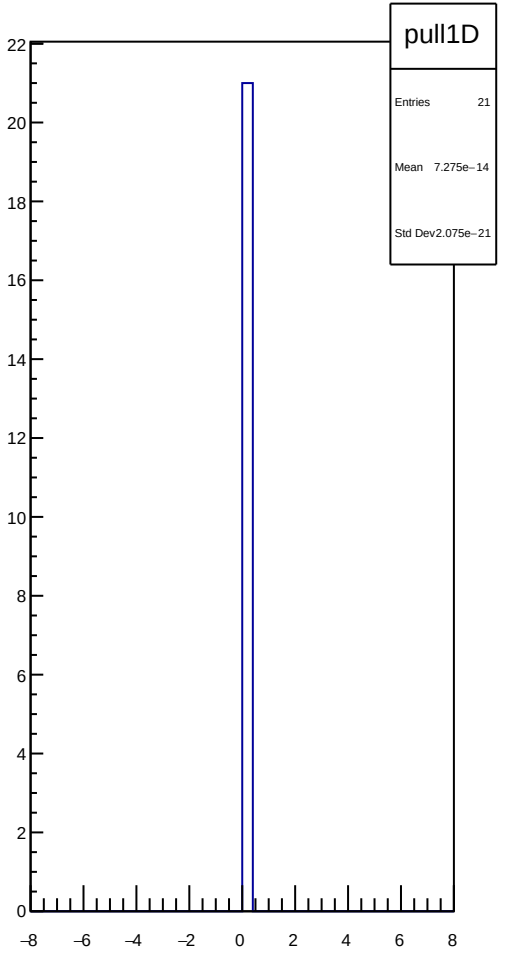

dit_atr2_4aX_slope vs run
χ² / ndf 5.659e−26 / 20
p0 −1322 ± 1.912
−1312
−1314
−1316
−1318
−1320
−1322
−1324
−1326
−1328
−1330
−1332
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 21
Mean 10.5
Std Dev 6.055

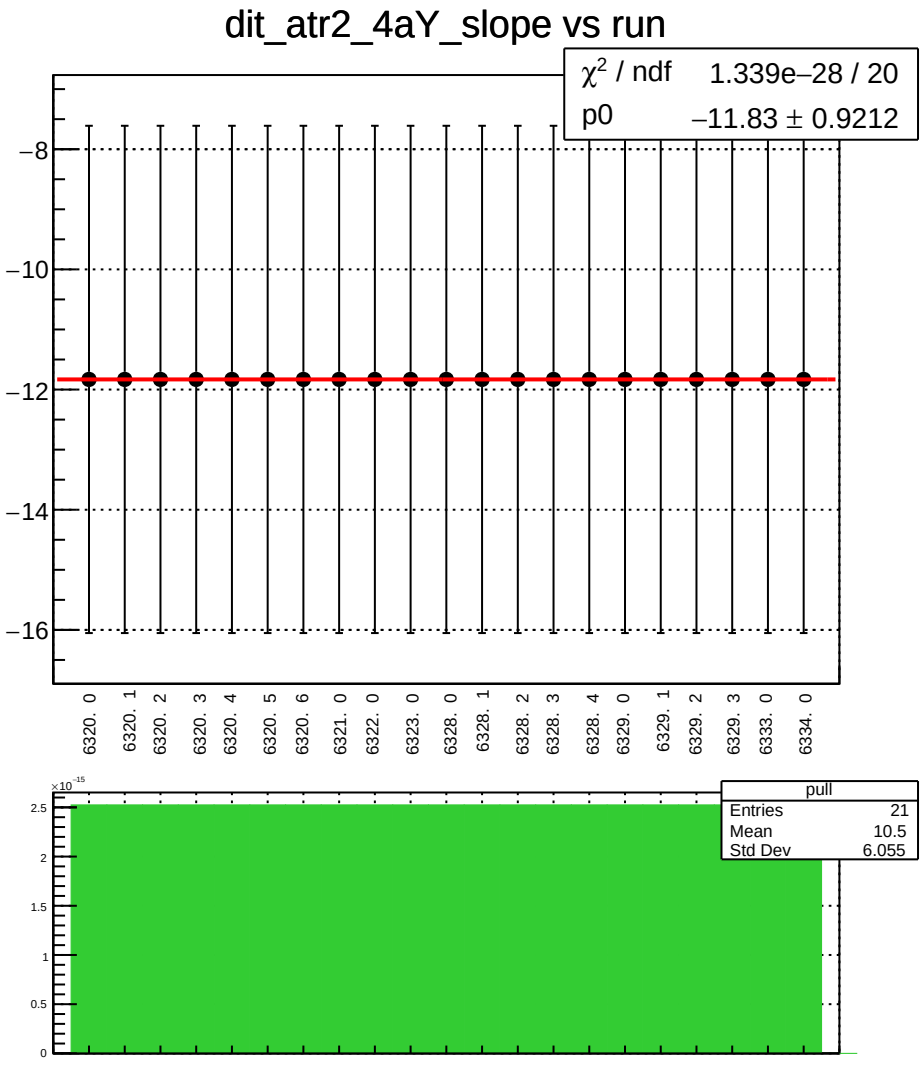

pull1D
Entries 21
Mean −5.191e−14
Std Dev1.339e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

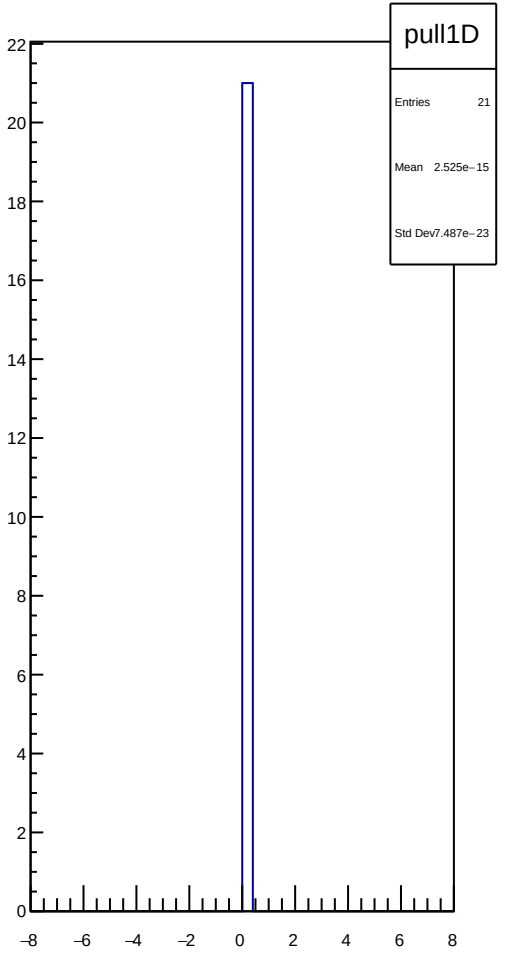

dit_atr2_4eX_slope vs run
χ² / ndf 2.433e−26 / 20
p0 1524 ± 2.915
1540
1535
1530
1525
1520
1515
1510
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 21
Mean 10.5
Std Dev 6.055

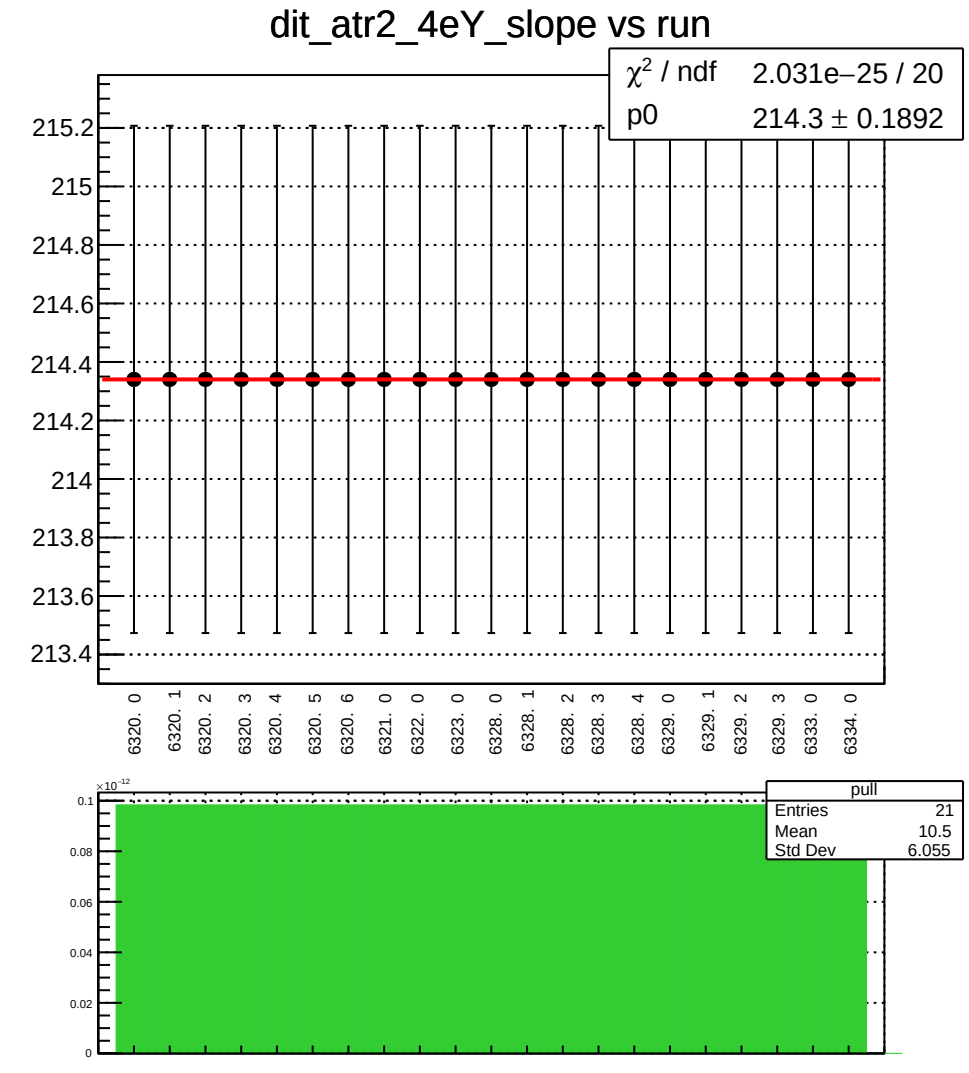

pull1D
Entries 21
Mean −3.404e−14
Std Dev5.989e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

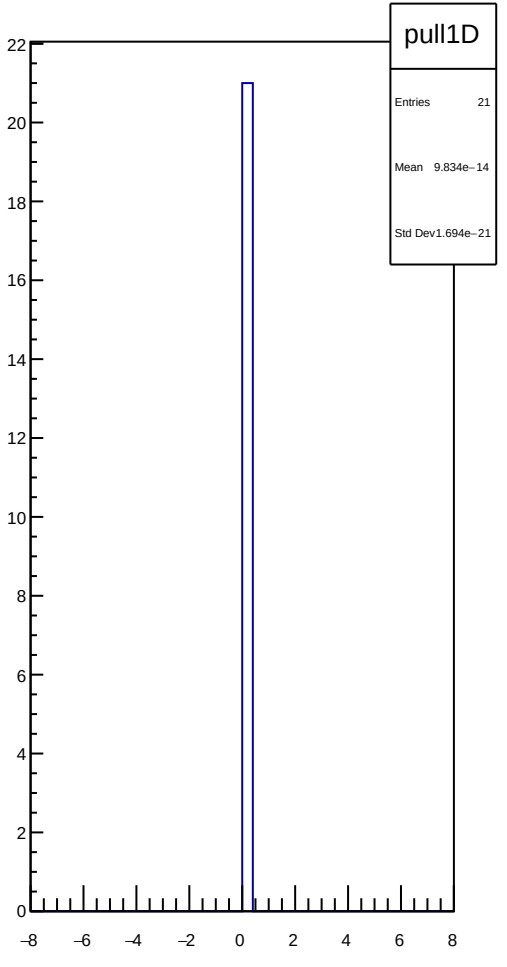

dit_atr2_11X12X_slope vs run
χ² / ndf 1.111e−25 / 20
p0 −424.8 ± 0.8526
−421
−422
−423
−424
−425
−426
−427
−428
−429
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
70
60
50
40
30
20
10
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

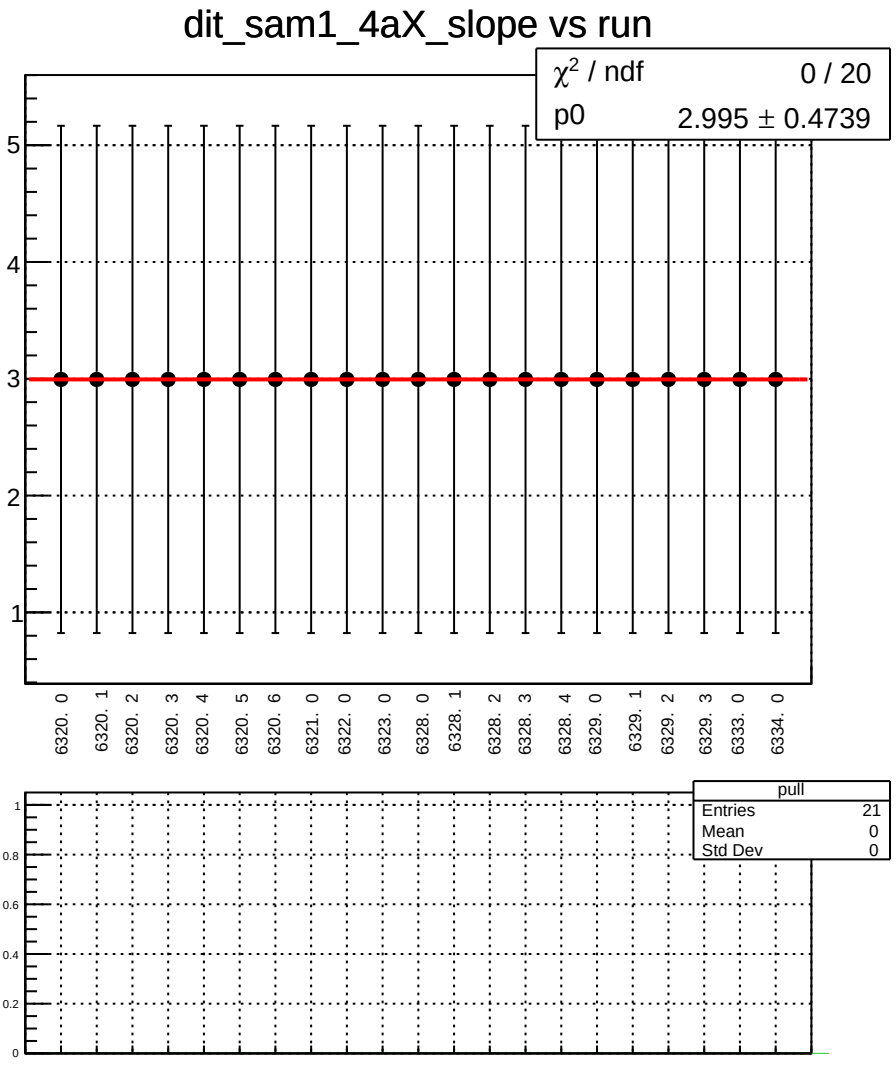

pull1D
Entries 21
Mean 7.275e−14
Std Dev2.075e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

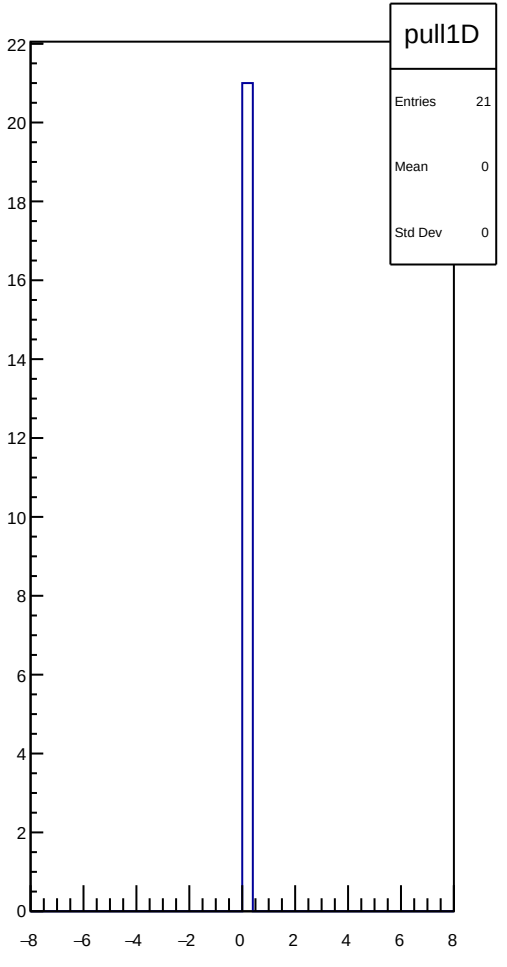

dit_atr2_4aY_slope vs run
χ² / ndf 1.339e−28 / 20
p0 −11.83 ± 0.9212
−8
−10
−12
−14
−16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

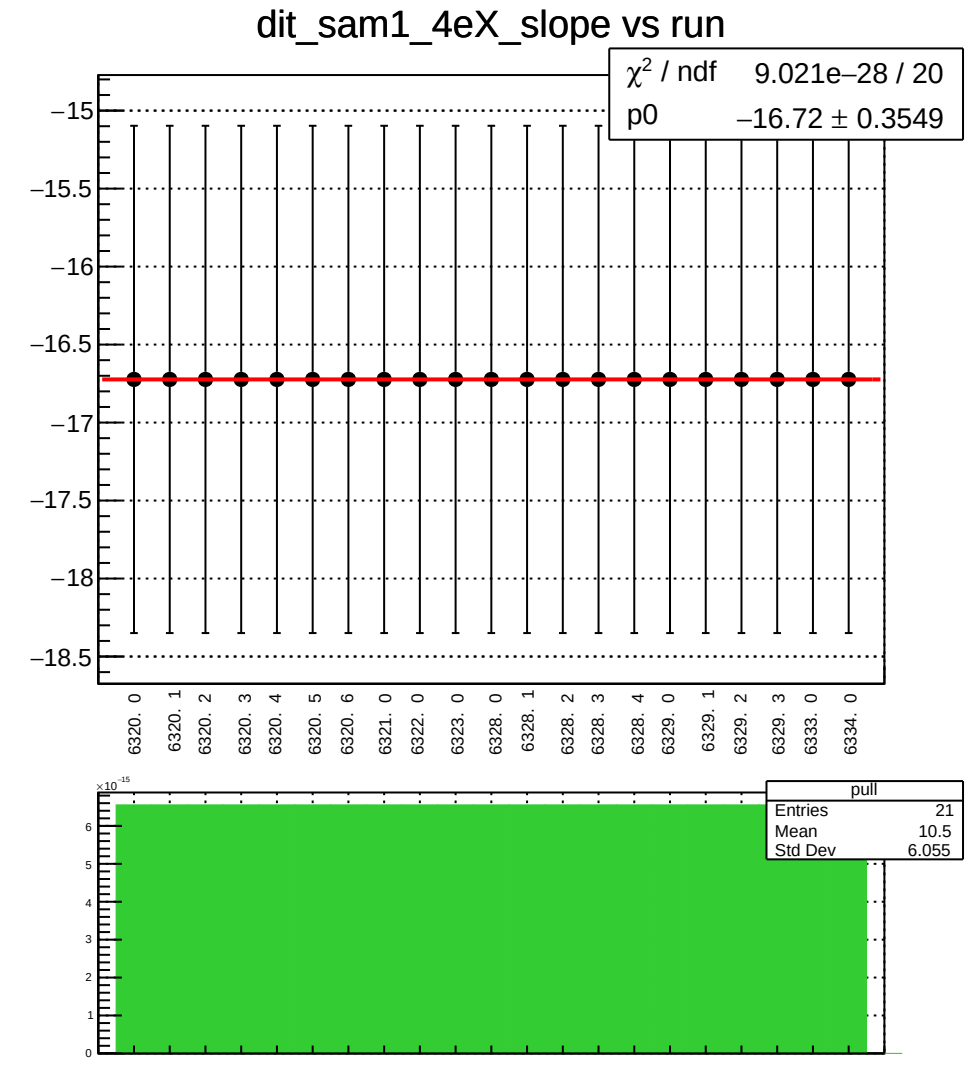

pull1D
Entries 21
Mean 2.525e−15
Std Dev7.487e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

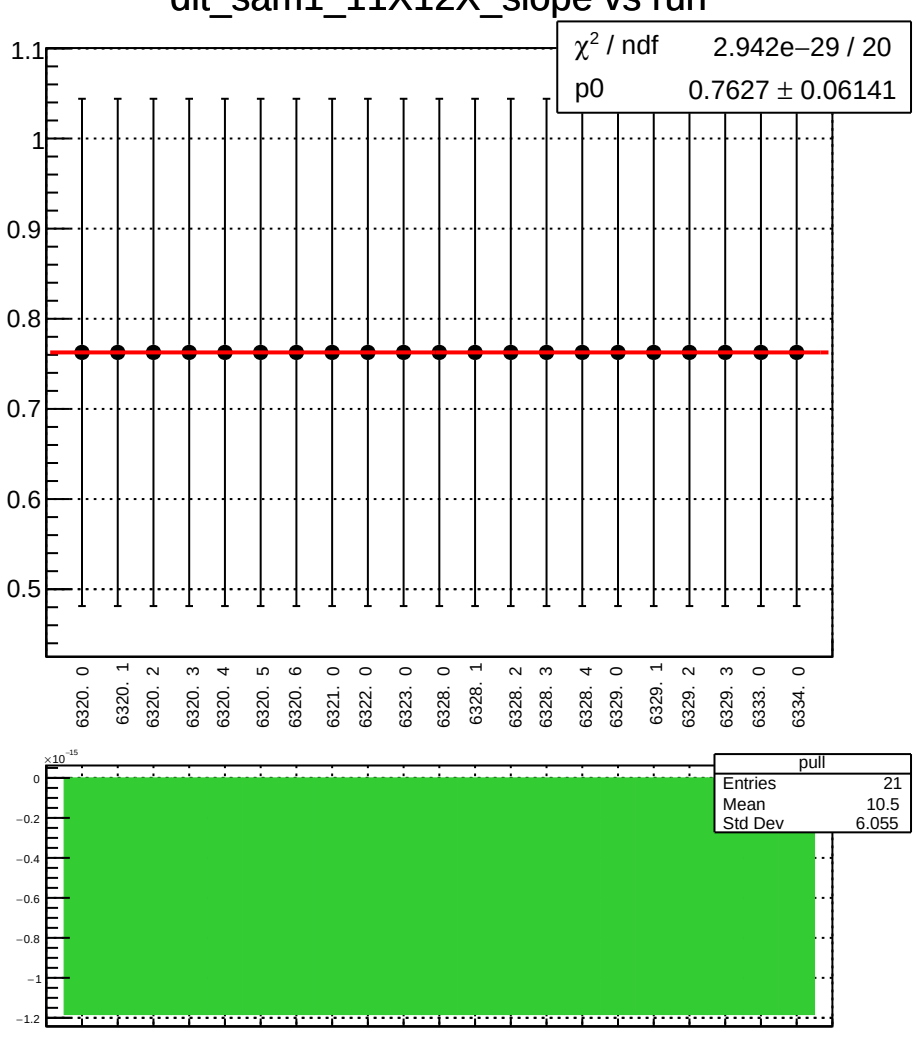

dit_atr2_4eY_slope vs run
χ² / ndf 2.031e−25 / 20
p0 214.3 ± 0.1892
215.2
215
214.8
214.6
214.4
214.2
214
213.8
213.6
213.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

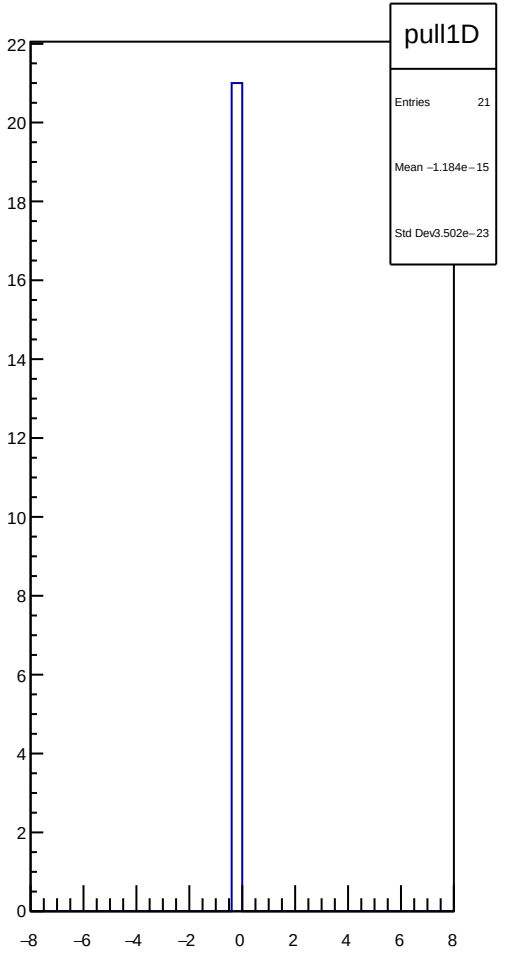

pull1D
Entries 21
Mean 9.834e−14
Std Dev1.694e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

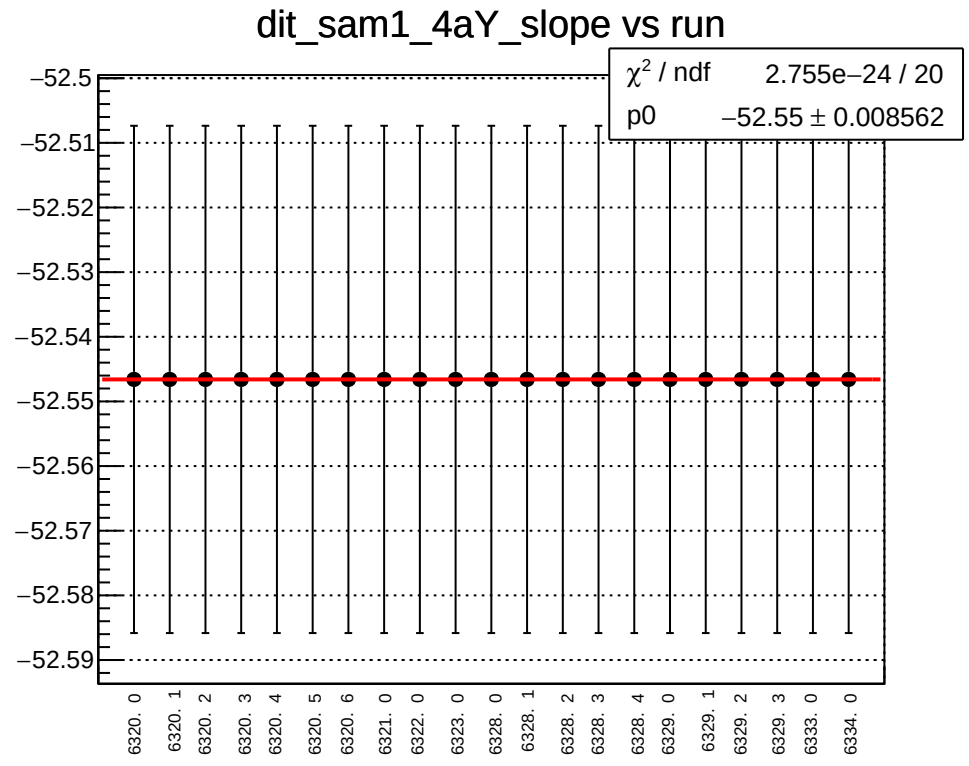

dit_sam1_4aX_slope vs run
χ² / ndf 0 / 20
p0 2.995 ± 0.4739
5
4
3
2
1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

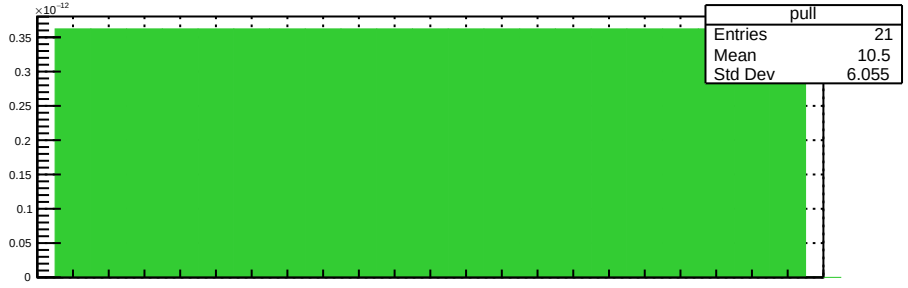

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

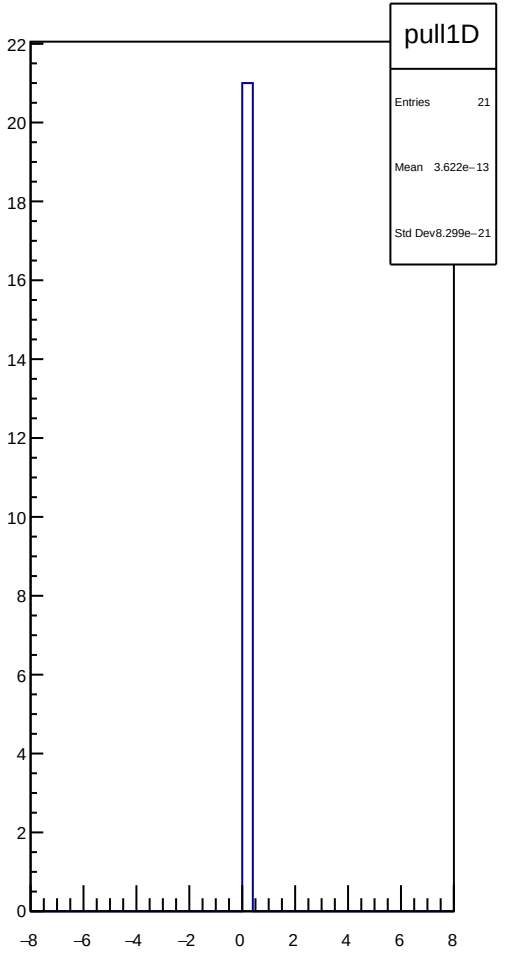

dit_sam1_4eX_slope vs run
χ² / ndf 9.021e−28 / 20
p0 −16.72 ± 0.3549
−15
−15.5
−16
−16.5
−17
−17.5
−18
−18.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean 6.554e−15
Std Dev1.059e−22

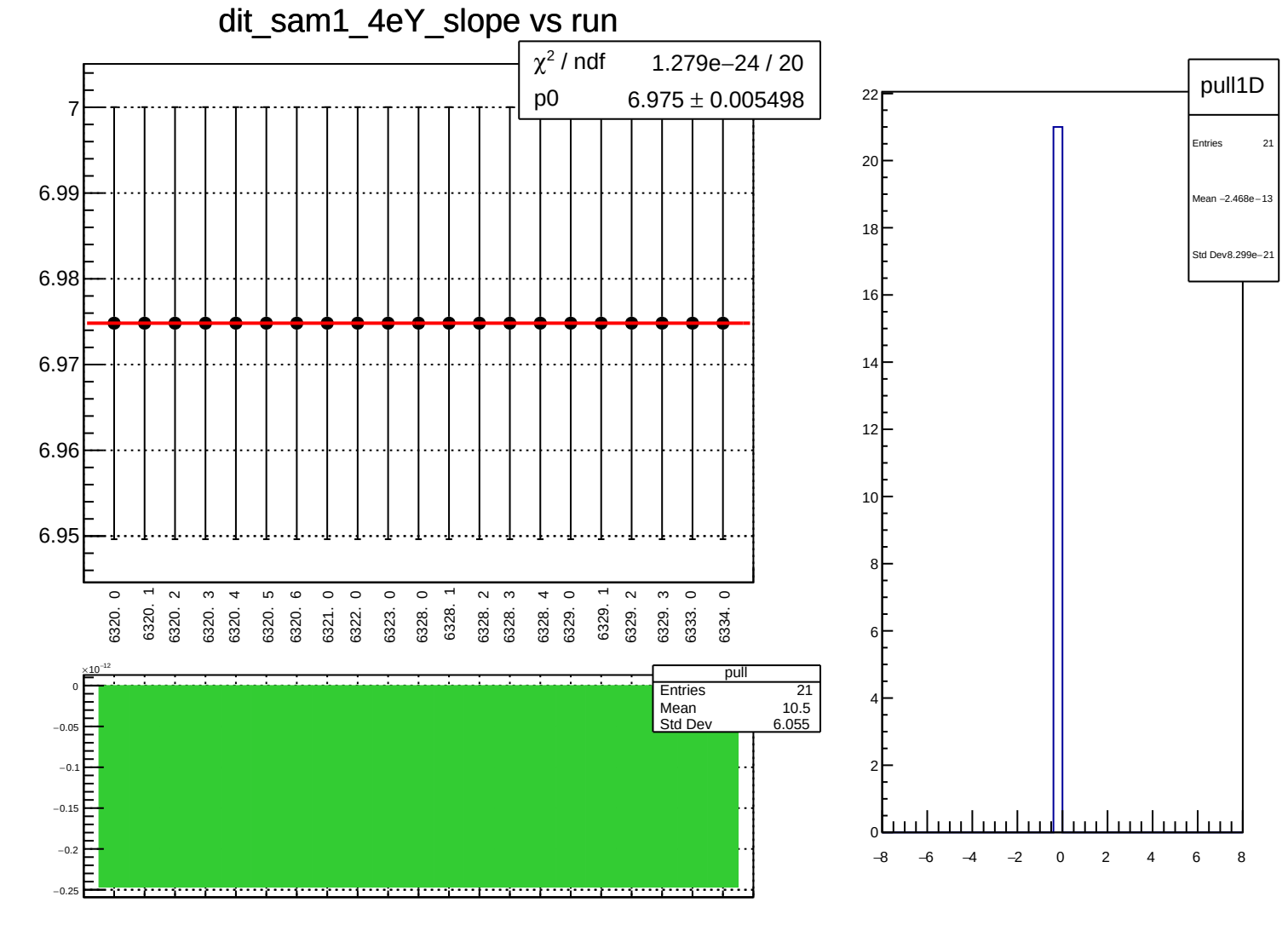

dit_sam1_11X12X_slope vs run
χ² / ndf 2.942e−29 / 20
p0 0.7627 ± 0.06141
1.1
1
0.9
0.8
0.7
0.6
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 21
Mean 10.5
Std Dev 6.055

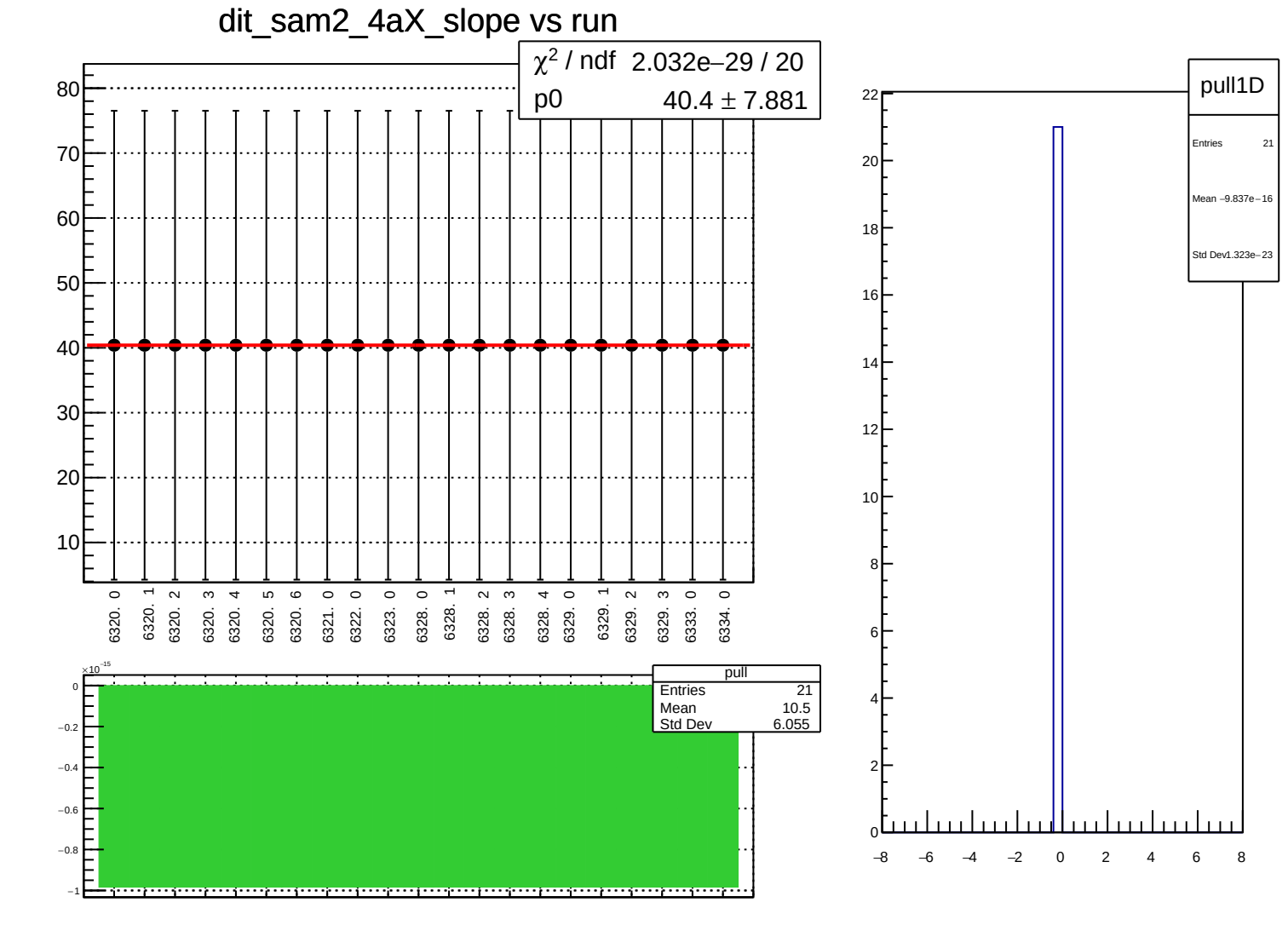

pull1D
Entries 21
Mean −1.184e−15
Std Dev3.502e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

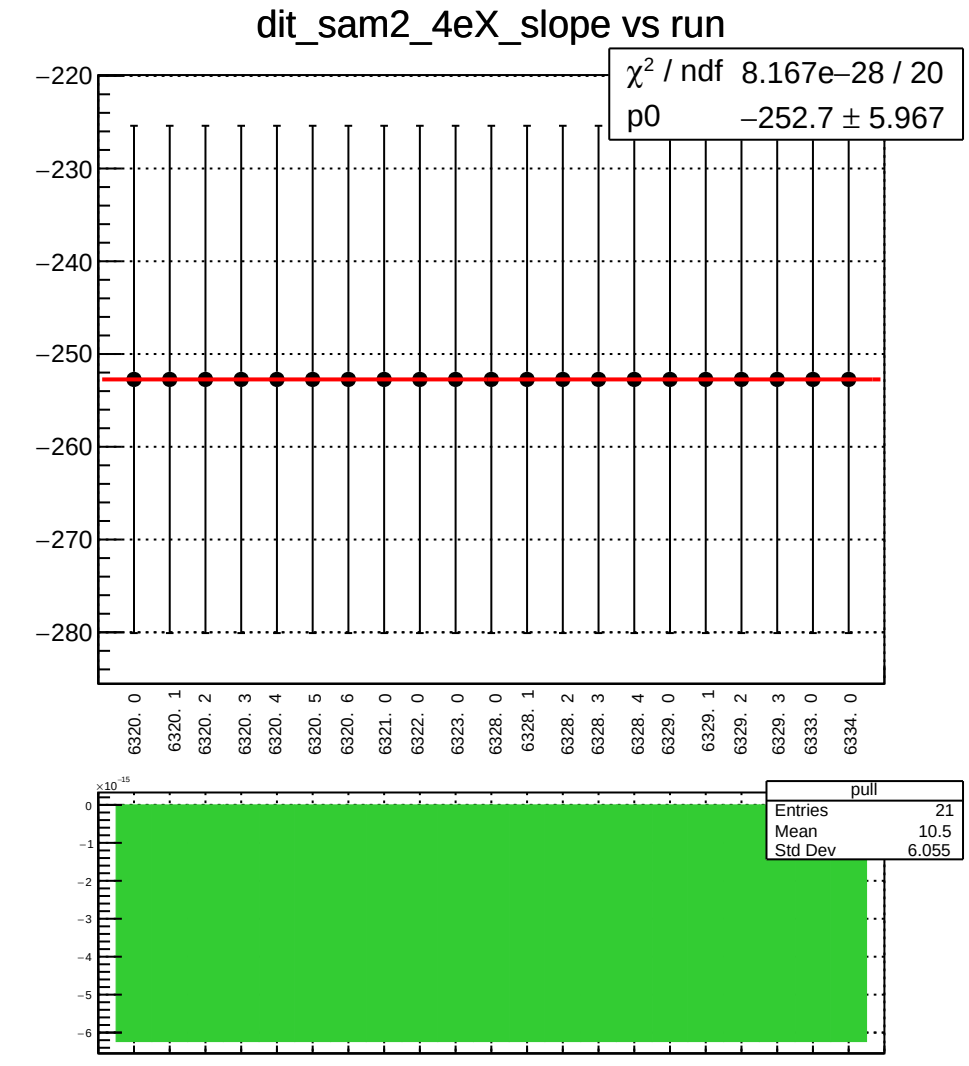

dit_sam1_4aY_slope vs run
χ² / ndf 2.755e−24 / 20
p0 −52.55 ± 0.008562
−52.5
−52.51
−52.52
−52.53
−52.54
−52.55
−52.56
−52.57
−52.58
−52.59
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

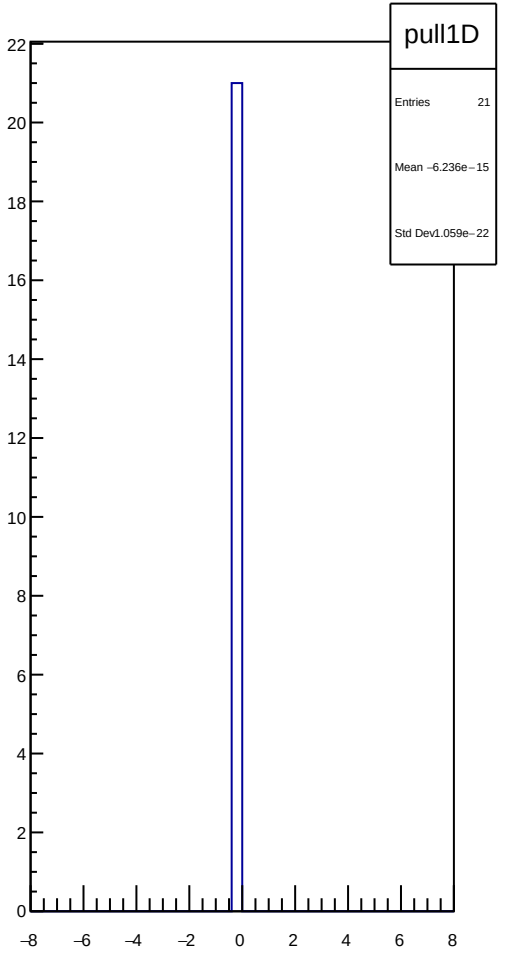

×10⁻¹²
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

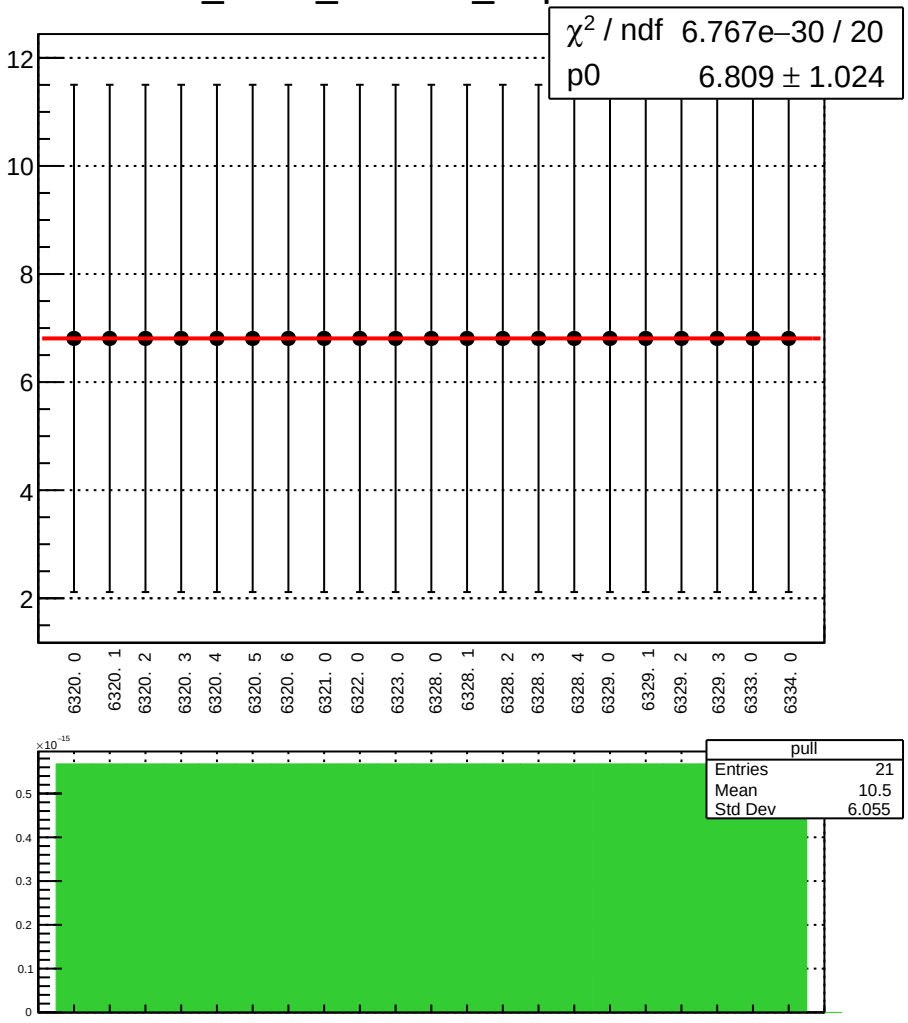

pull1D
Entries 21
Mean 3.622e−13
Std Dev8.299e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

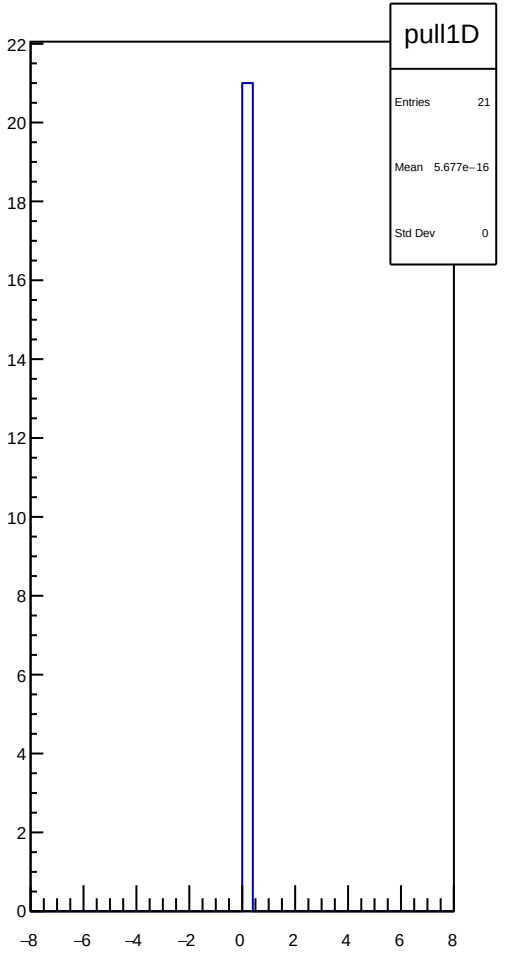

dit_sam1_4eY_slope vs run
χ² / ndf 1.279e−24 / 20
p0 6.975 ± 0.005498
7
6.99
6.98
6.97
6.96
6.95
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean −2.468e−13
Std Dev8.299e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

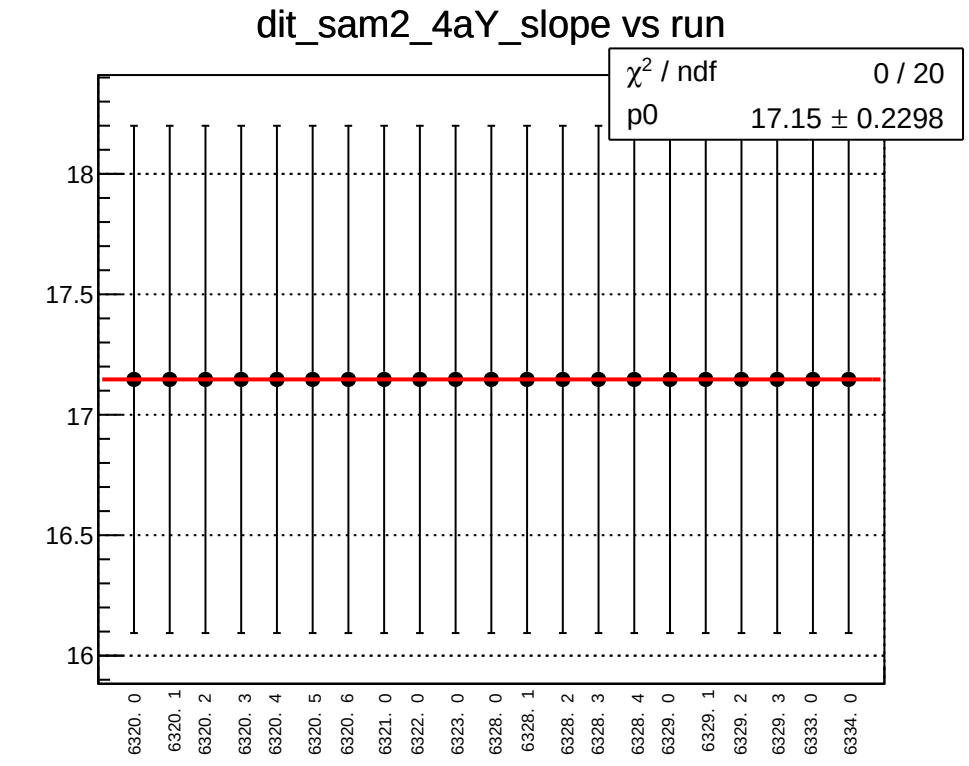

dit_sam2_4aX_slope vs run
χ² / ndf 2.032e−29 / 20
p0 40.4 ± 7.881
80
70
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean −9.837e−16
Std Dev1.323e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

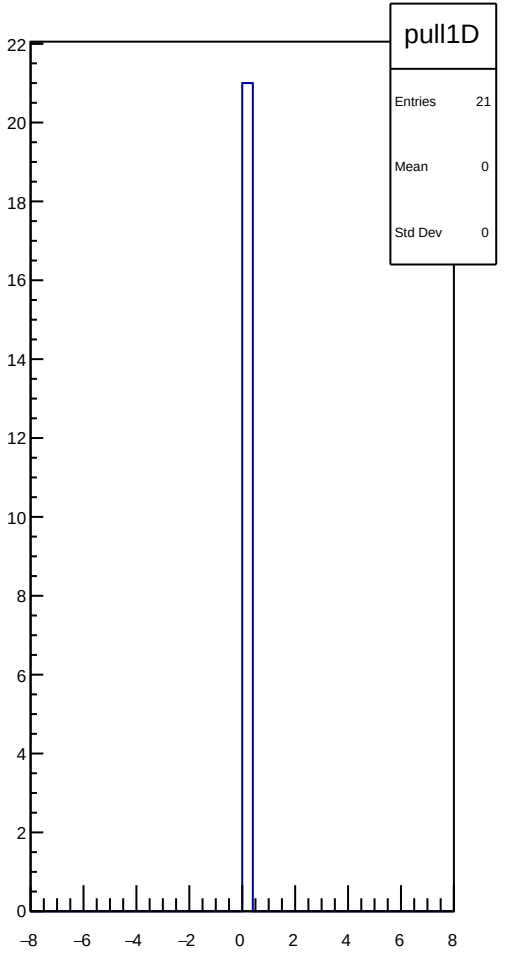

dit_sam2_4eX_slope vs run
χ² / ndf 8.167e−28 / 20
p0 −252.7 ± 5.967
−220
−230
−240
−250
−260
−270
−280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

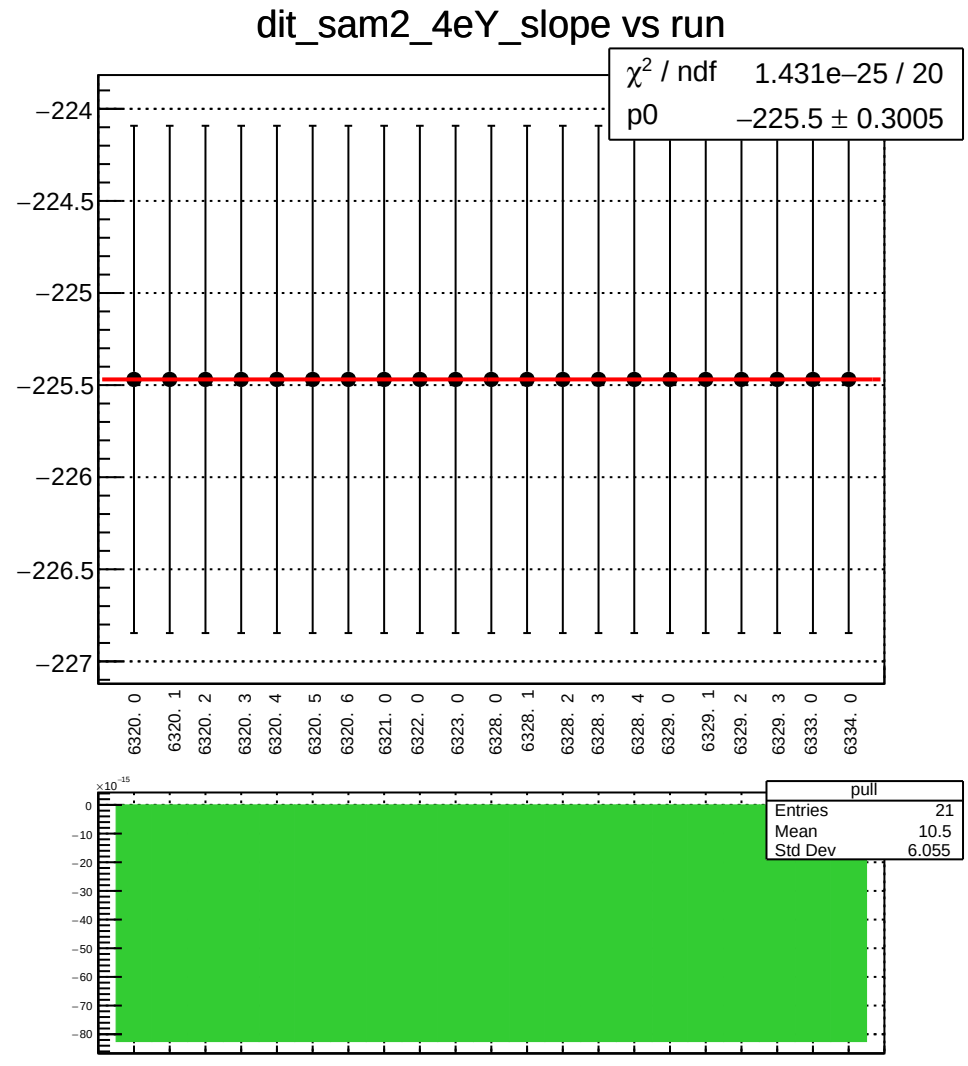

pull1D
Entries 21
Mean −6.236e−15
Std Dev1.059e−22

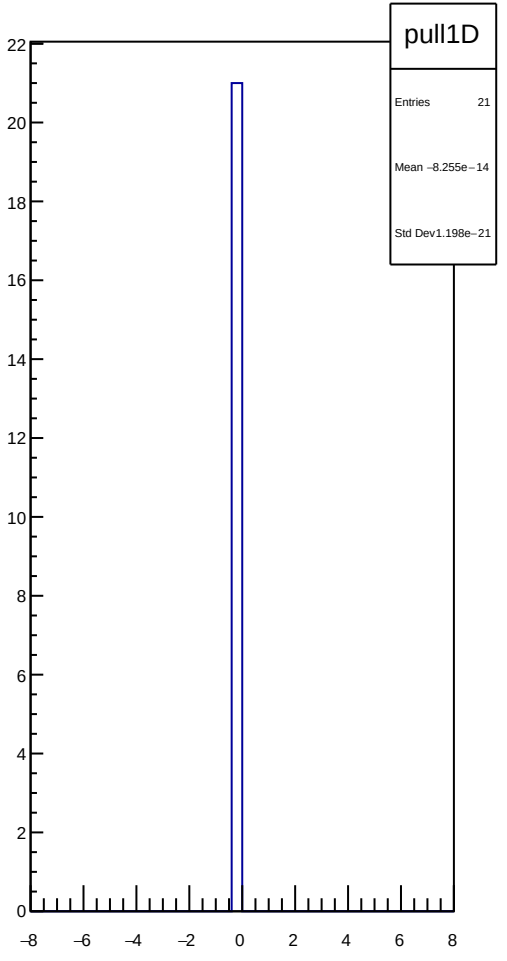

dit_sam2_11X12X_slope vs run
χ² / ndf 6.767e−30 / 20
p0 6.809 ± 1.024
12
10
8
6
4
2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

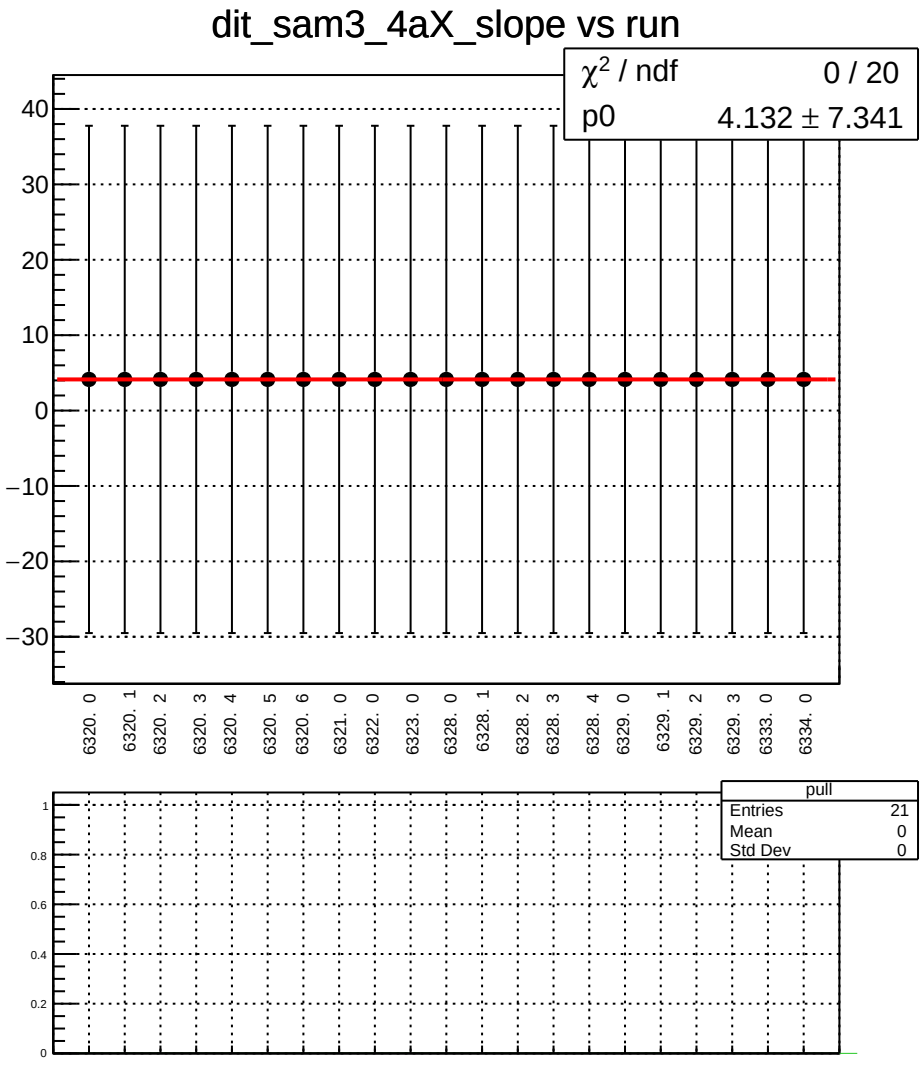

pull1D
Entries 21
Mean 5.677e−16
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

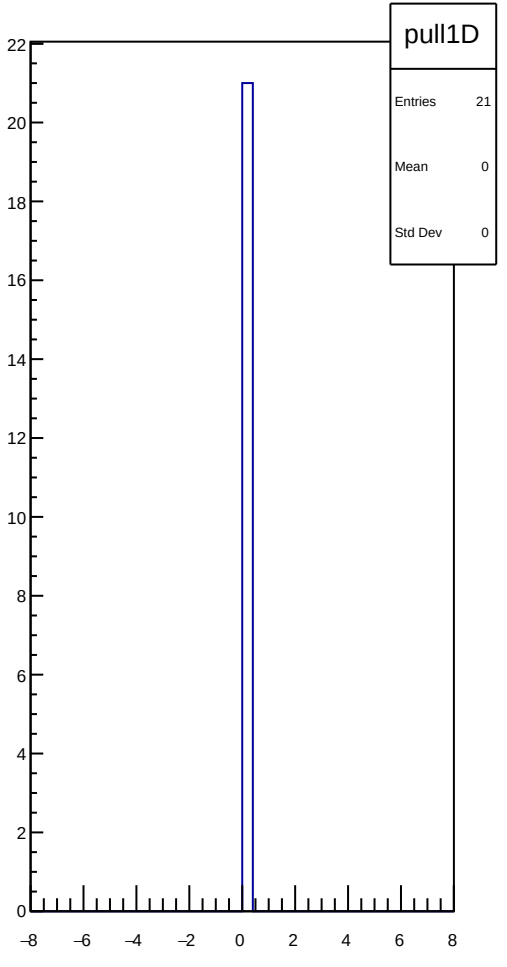

dit_sam2_4aY_slope vs run
χ² / ndf 0 / 20
p0 17.15 ± 0.2298
18
17.5
17
16.5
16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

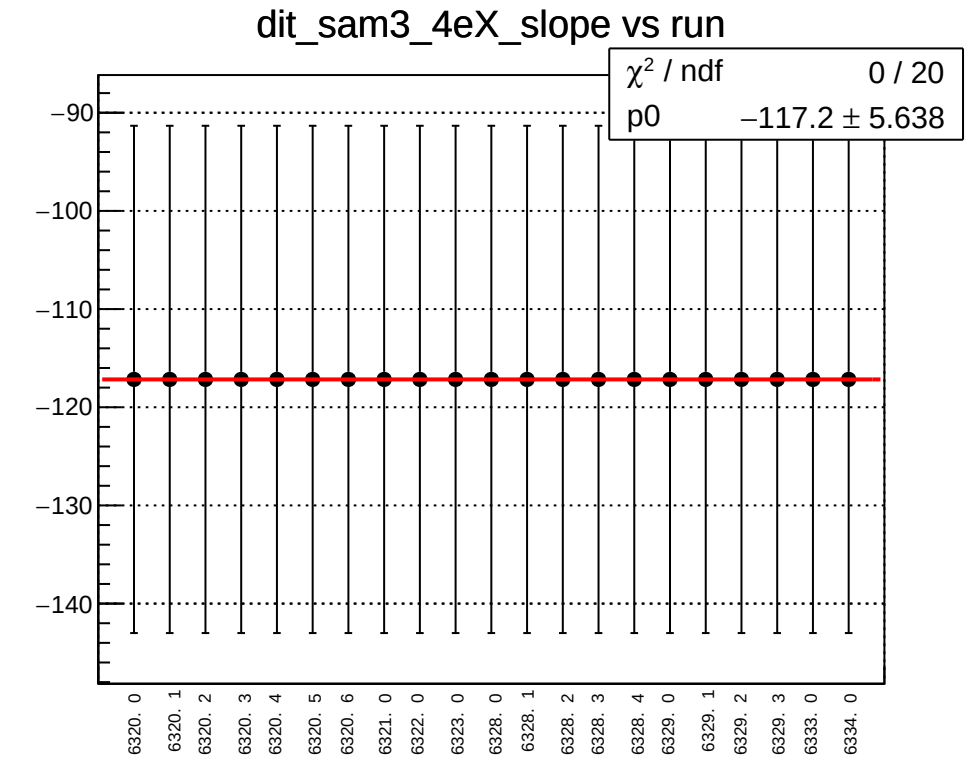

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

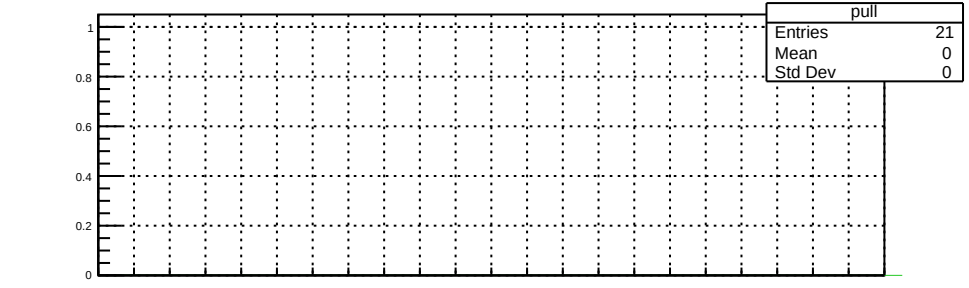

dit_sam2_4eY_slope vs run
χ² / ndf 1.431e−25 / 20
p0 −225.5 ± 0.3005
−224
−224.5
−225
−225.5
−226
−226.5
−227
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

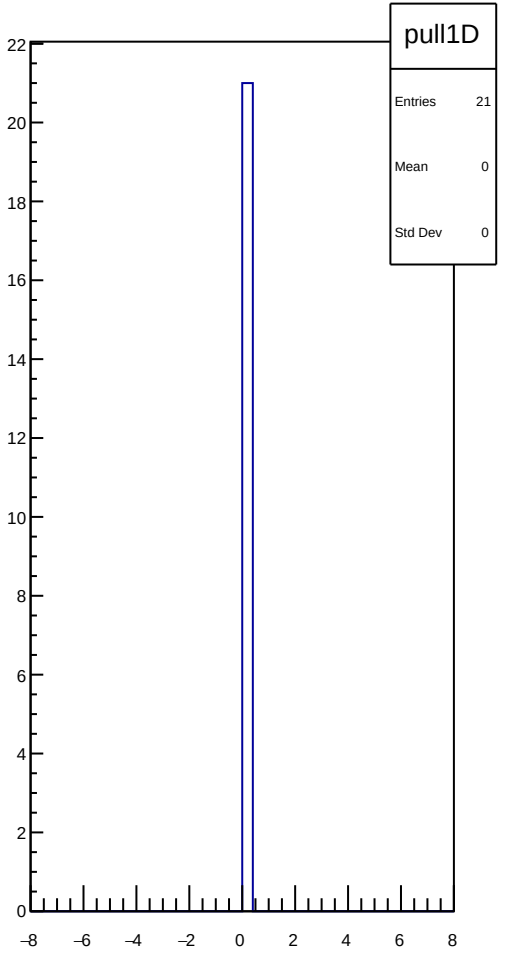

pull1D
Entries 21
Mean −8.255e−14
Std Dev1.198e−21

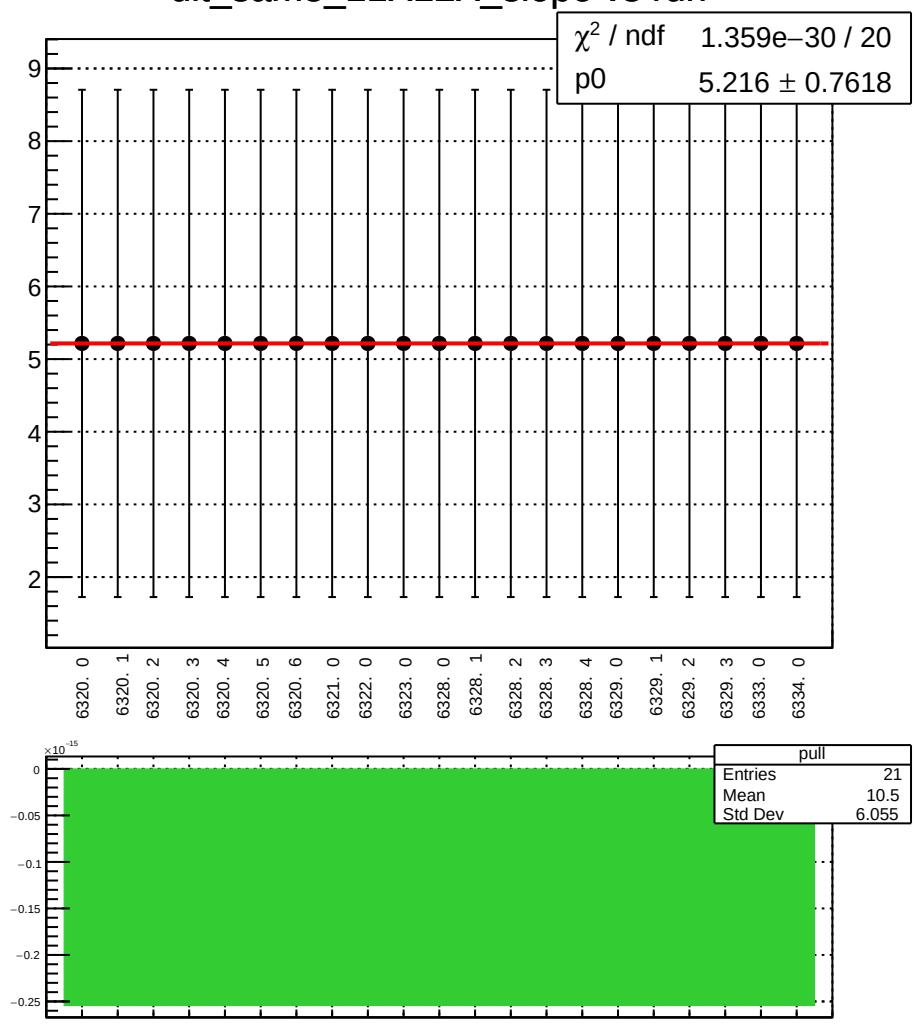

dit_sam3_4aX_slope vs run
χ² / ndf 0 / 20
p0 4.132 ± 7.341
40
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

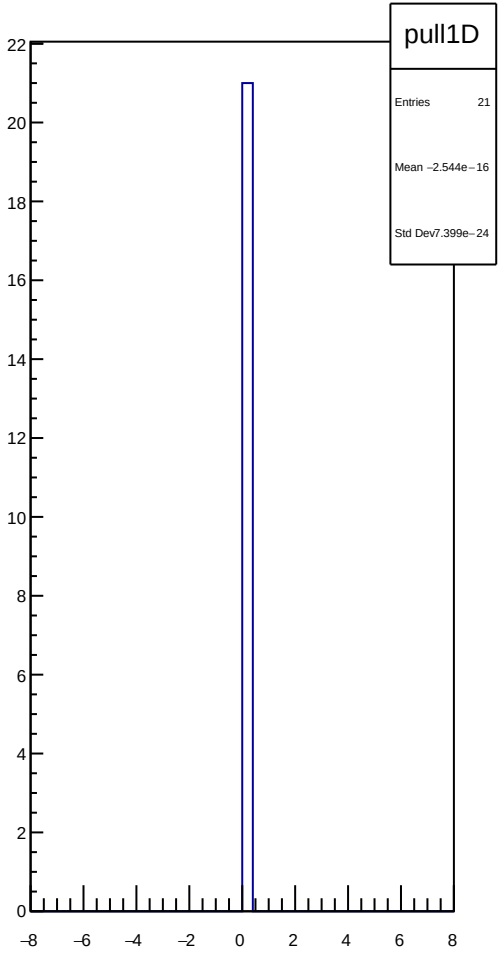

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

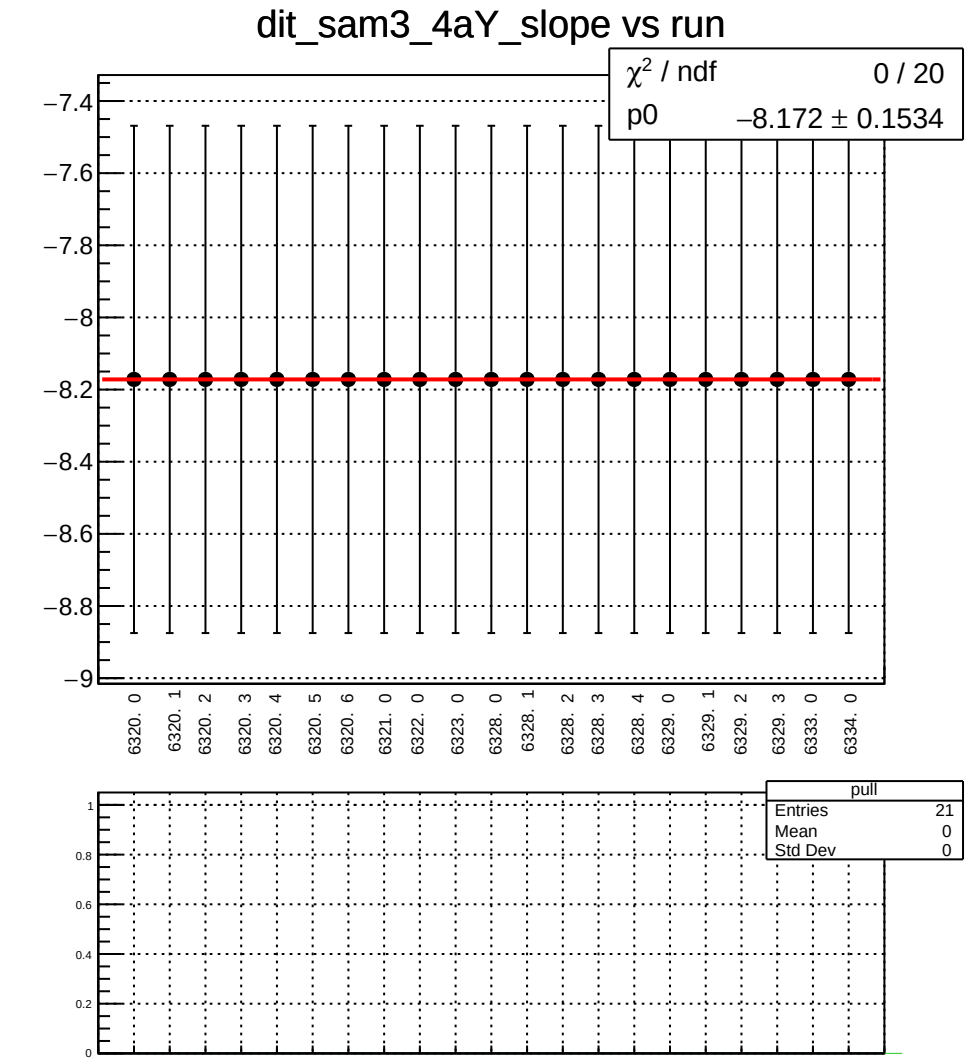

dit_sam3_4eX_slope vs run
χ² / ndf 0 / 20
p0 −117.2 ± 5.638
−90
−100
−110
−120
−130
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

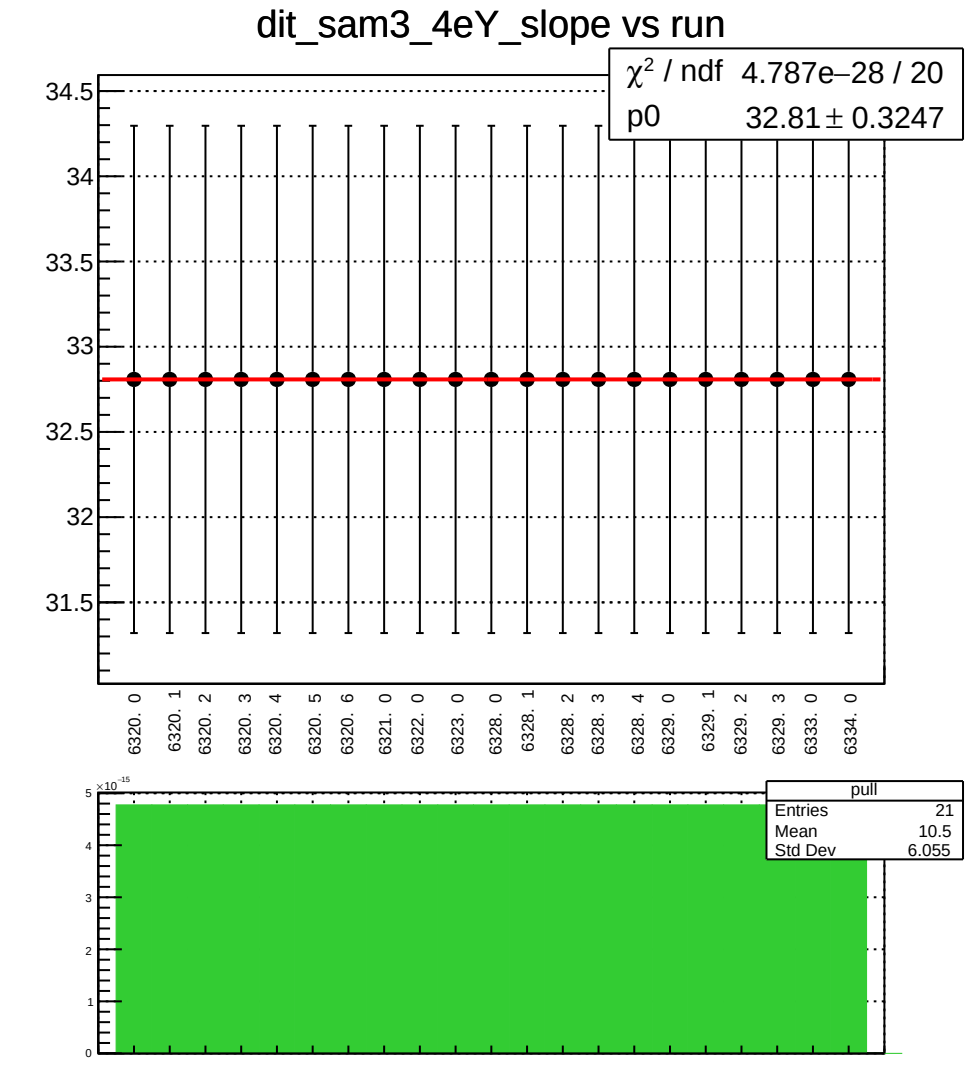

pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

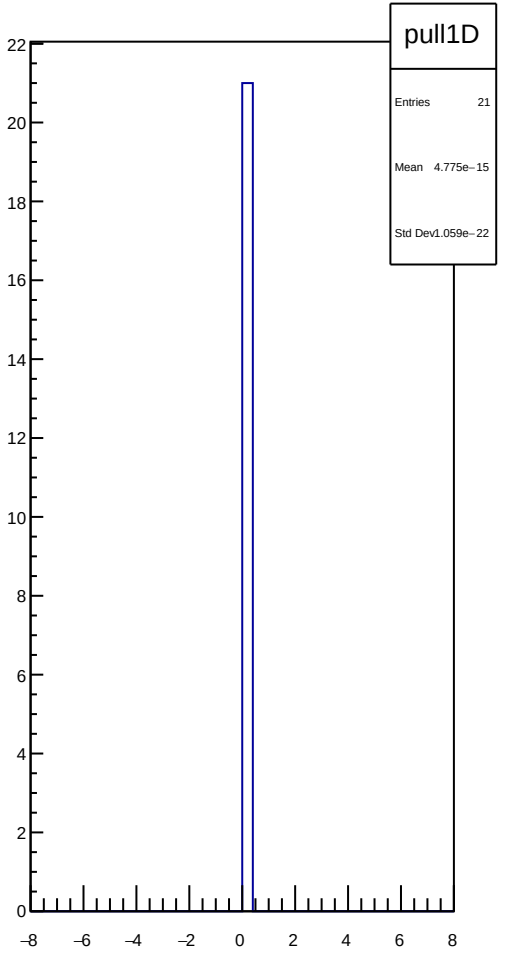

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

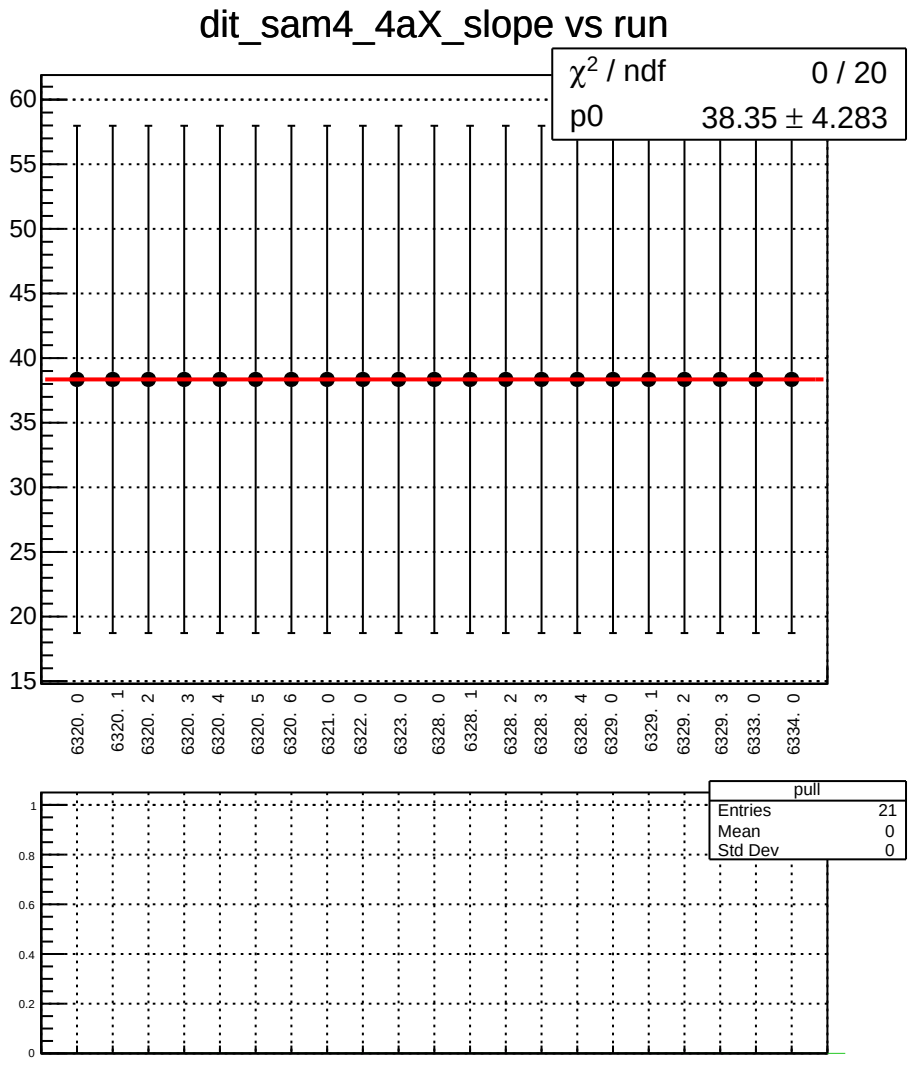

dit_sam3_11X12X_slope vs run
χ² / ndf 1.359e−30 / 20
p0 5.216 ± 0.7618
9
8
7
6
5
4
3
2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 21
Mean 10.5
Std Dev 6.055

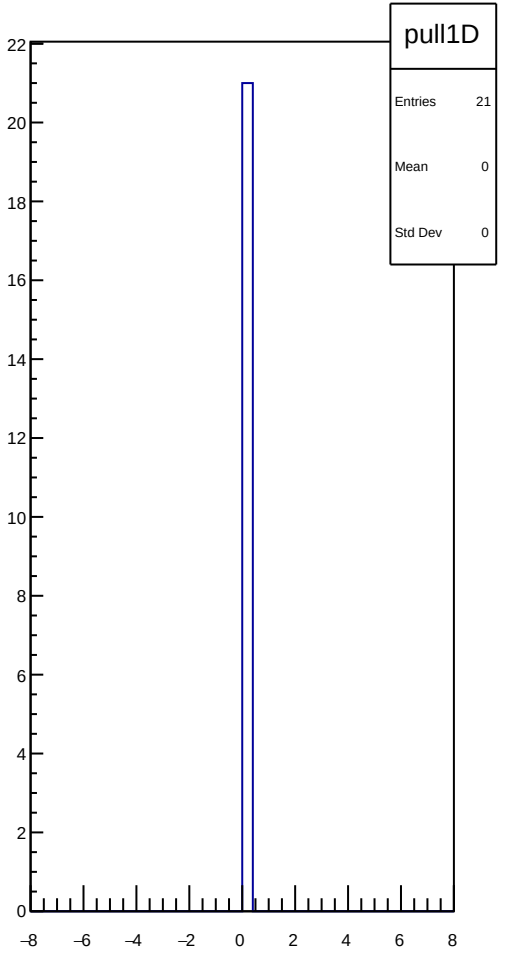

pull1D
Entries 21
Mean −2.544e−16
Std Dev7.399e−24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

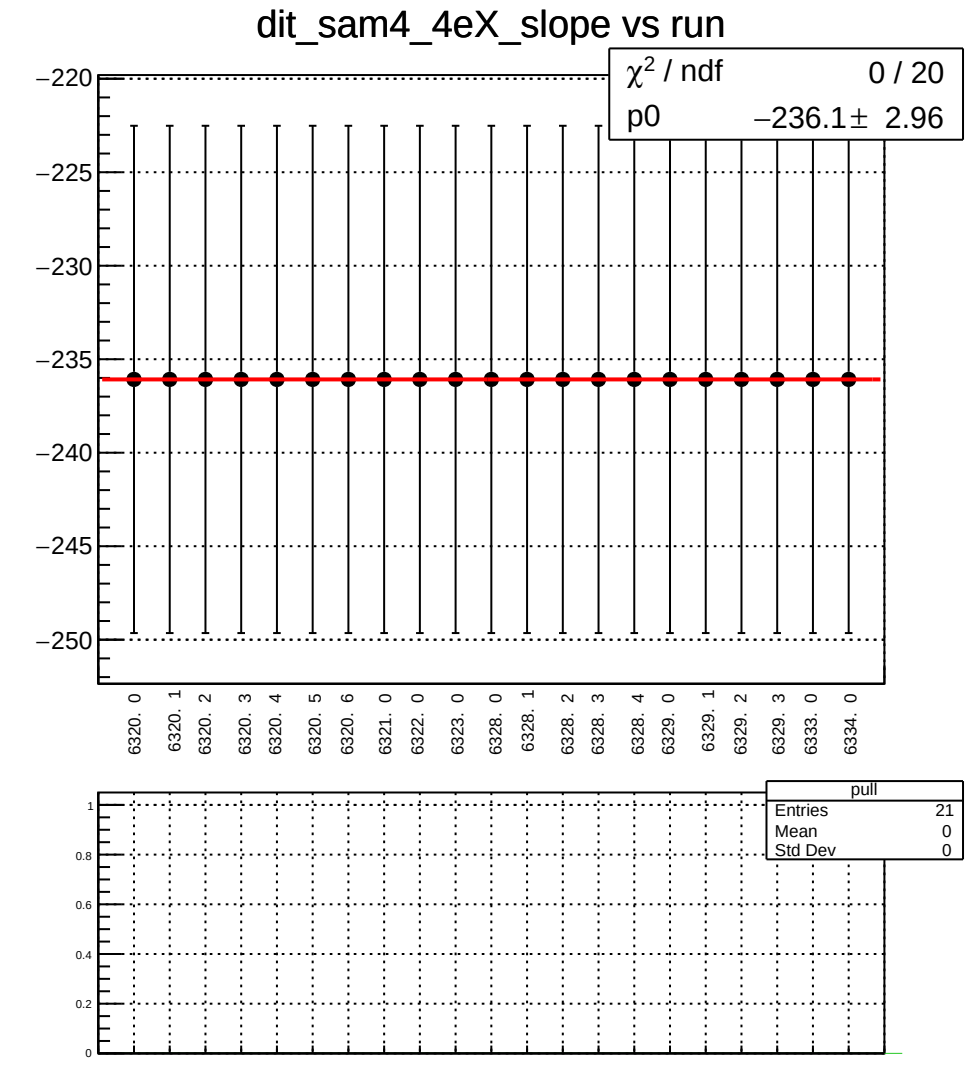

dit_sam3_4aY_slope vs run
χ² / ndf 0 / 20
p0 −8.172 ± 0.1534
−7.4
−7.6
−7.8
−8
−8.2
−8.4
−8.6
−8.8
−9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

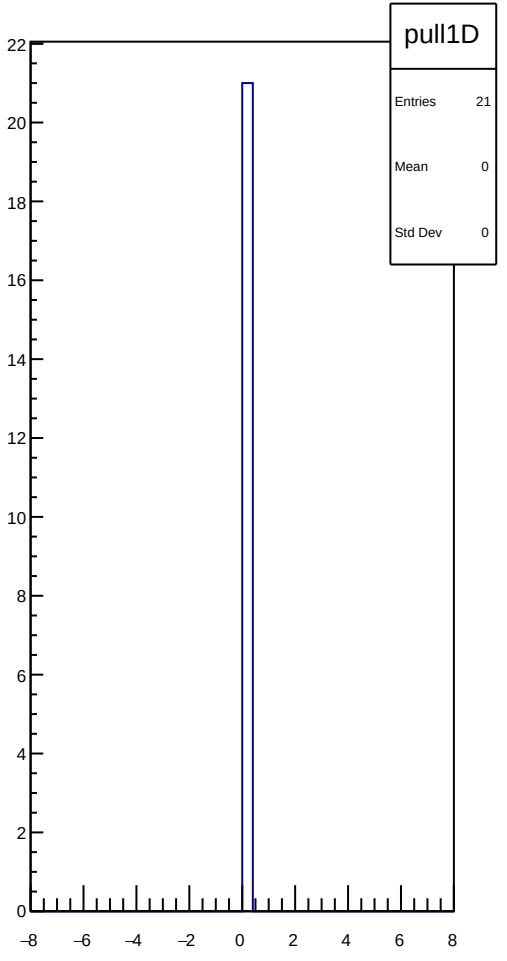

dit_sam3_4eY_slope vs run
χ² / ndf 4.787e−28 / 20
p0 32.81 ± 0.3247
34.5
34
33.5
33
32.5
32
31.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

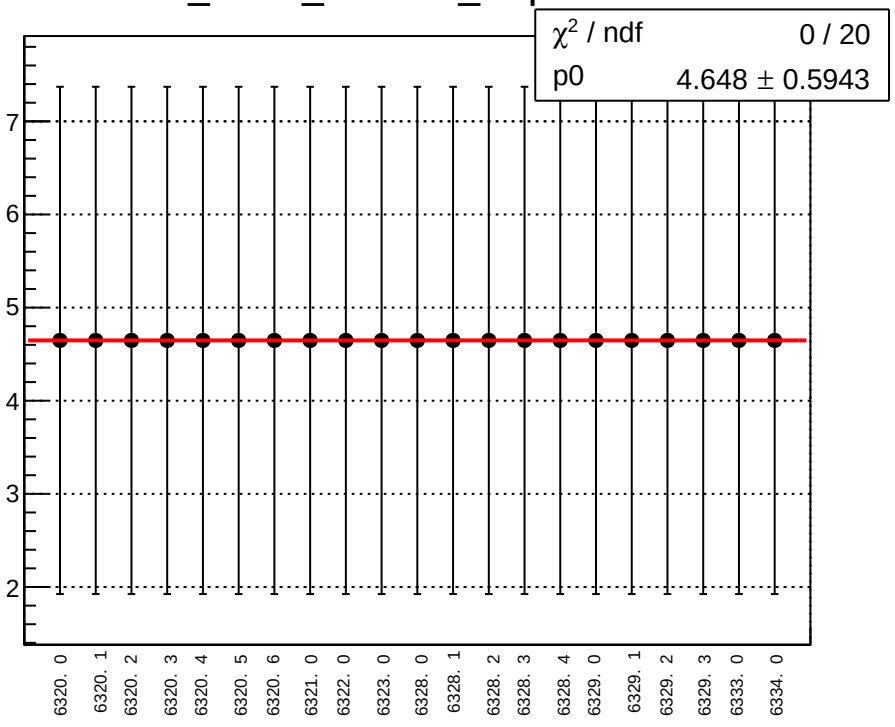

pull1D
Entries 21
Mean 4.775e−15
Std Dev1.059e−22

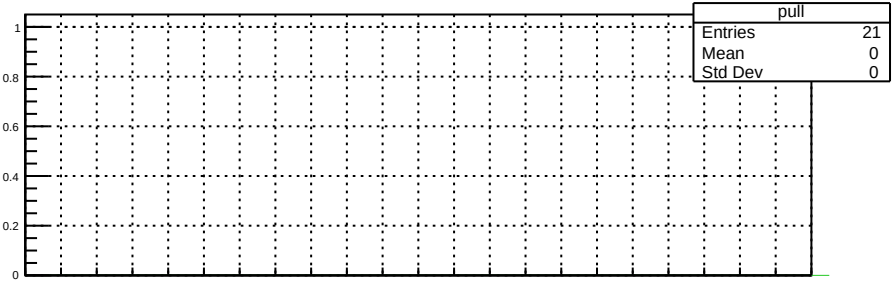

dit_sam4_4aX_slope vs run
χ² / ndf 0 / 20
p0 38.35 ± 4.283
60
55
50
45
40
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

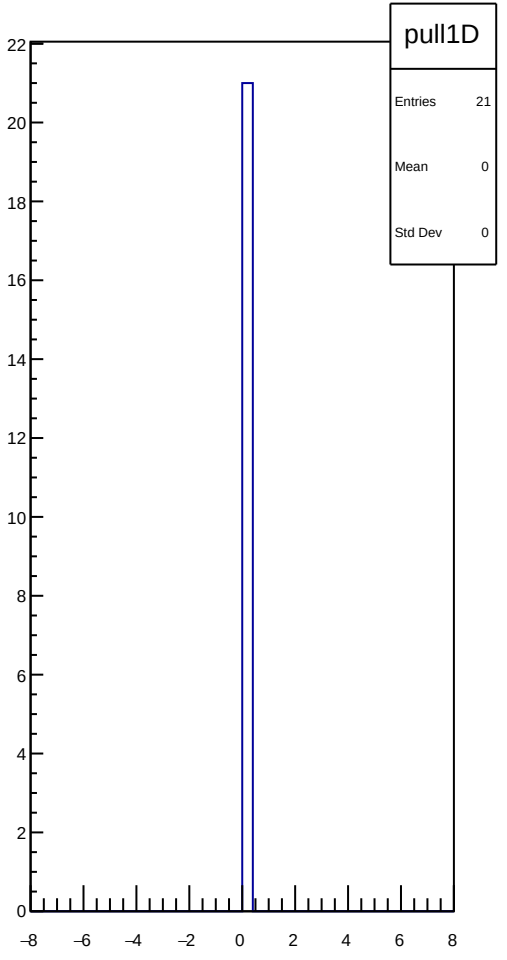

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

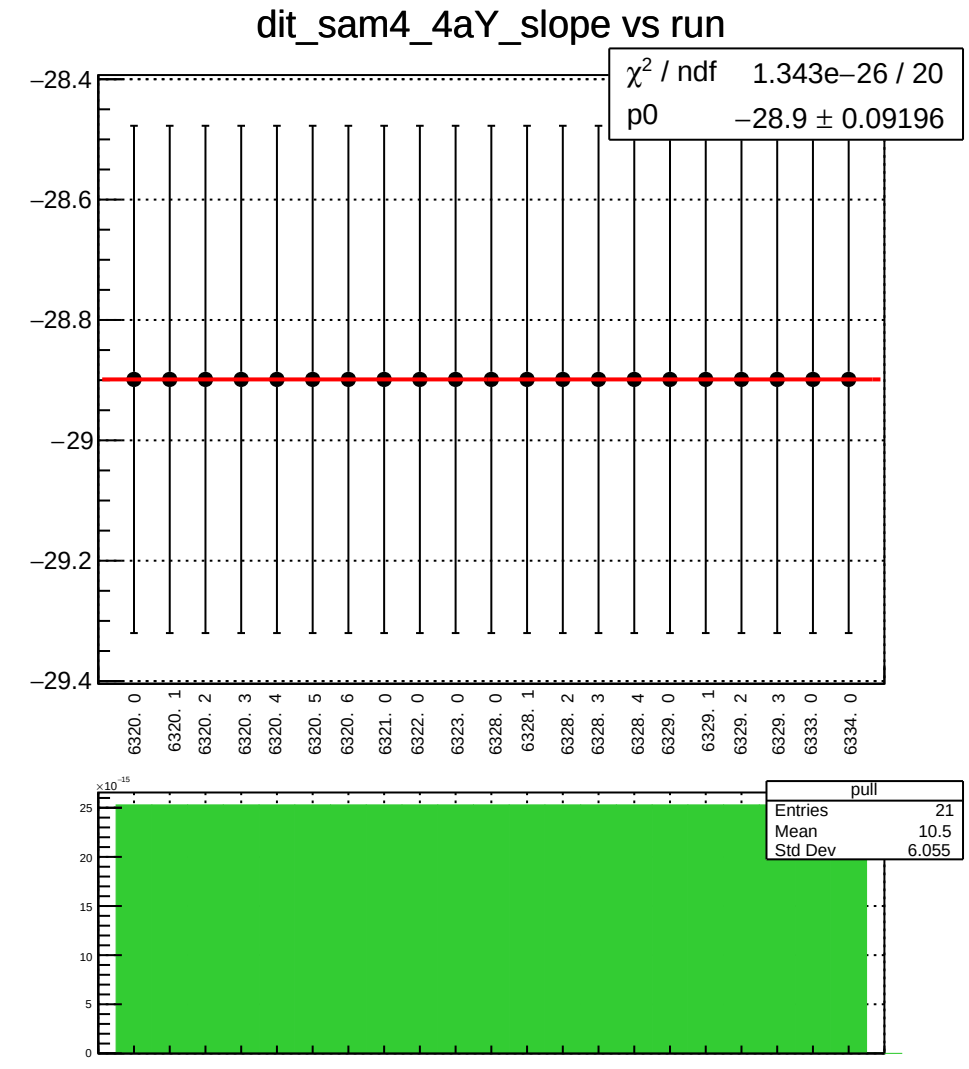

dit_sam4_4eX_slope vs run
χ² / ndf 0 / 20
p0 −236.1± 2.96
−220
−225
−230
−235
−240
−245
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

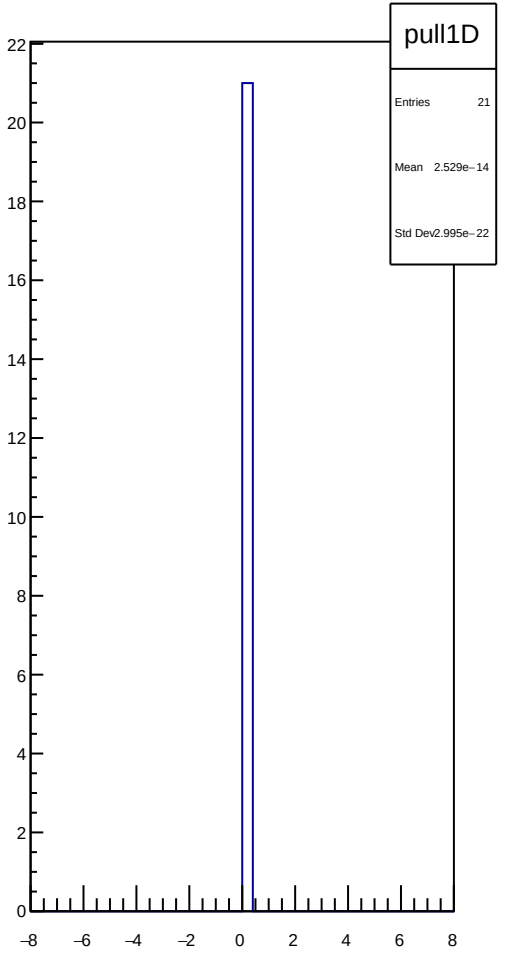

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

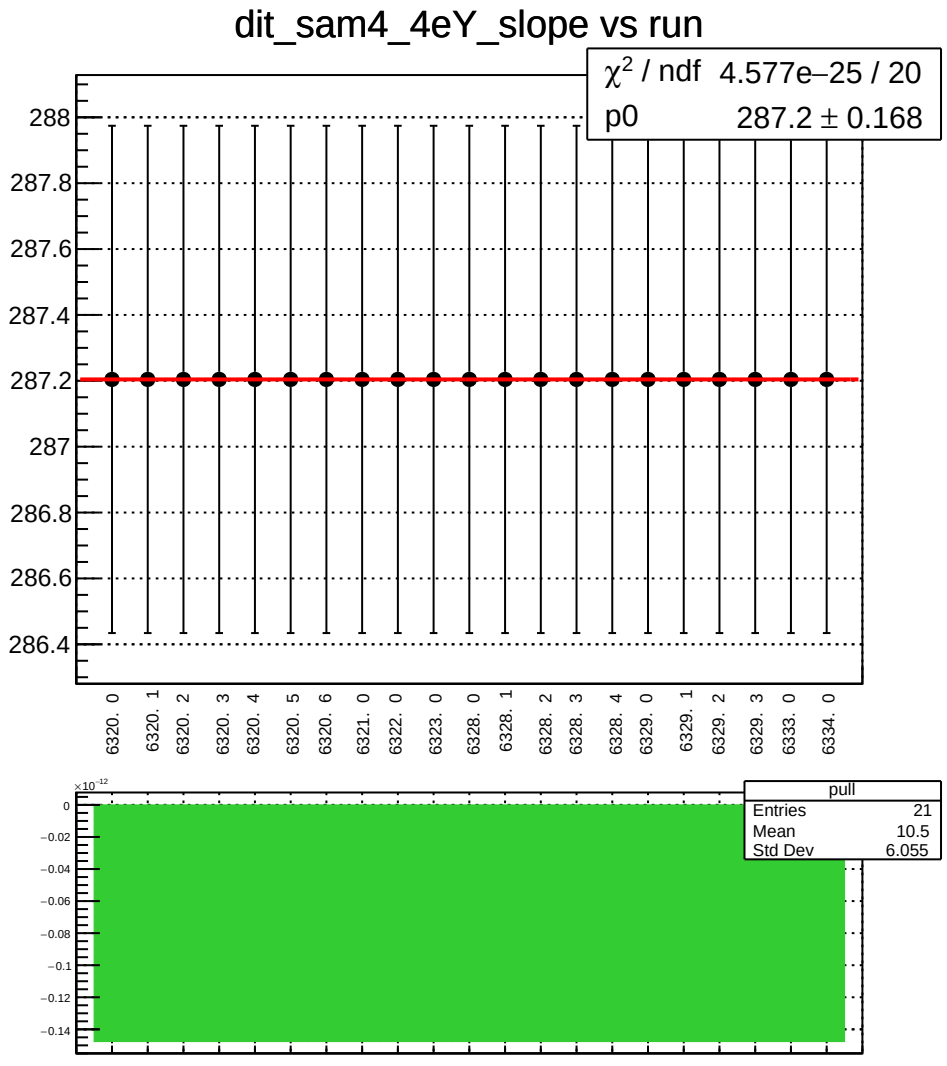

dit_sam4_11X12X_slope vs run
χ² / ndf 0 / 20
p0 4.648 ± 0.5943
7
6
5
4
3
2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

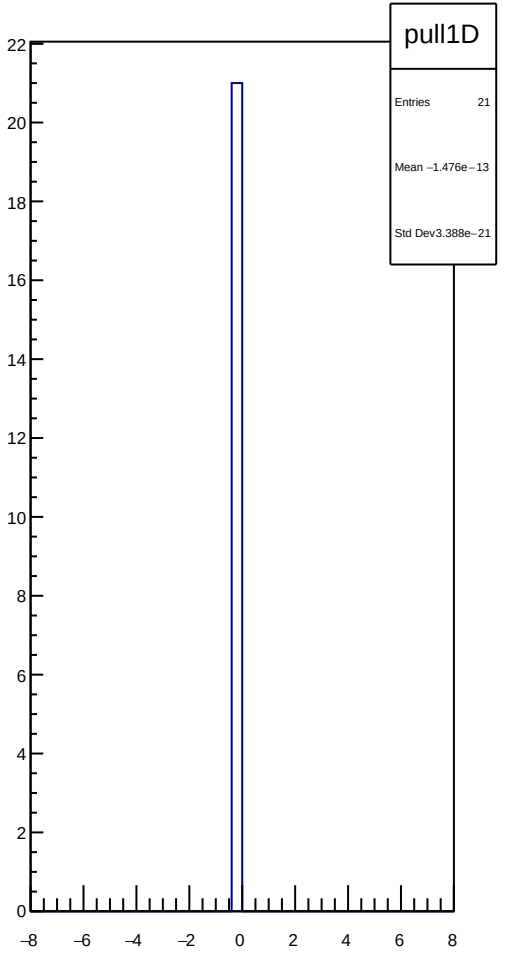

pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

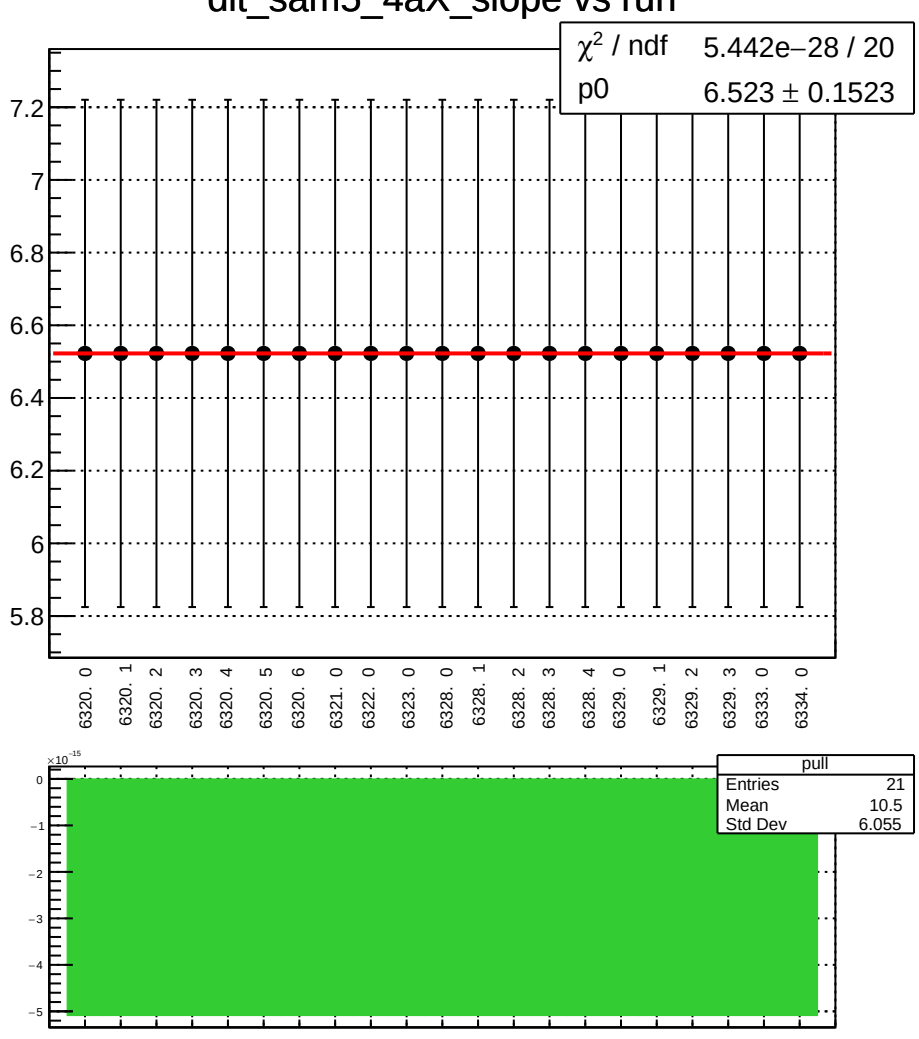

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

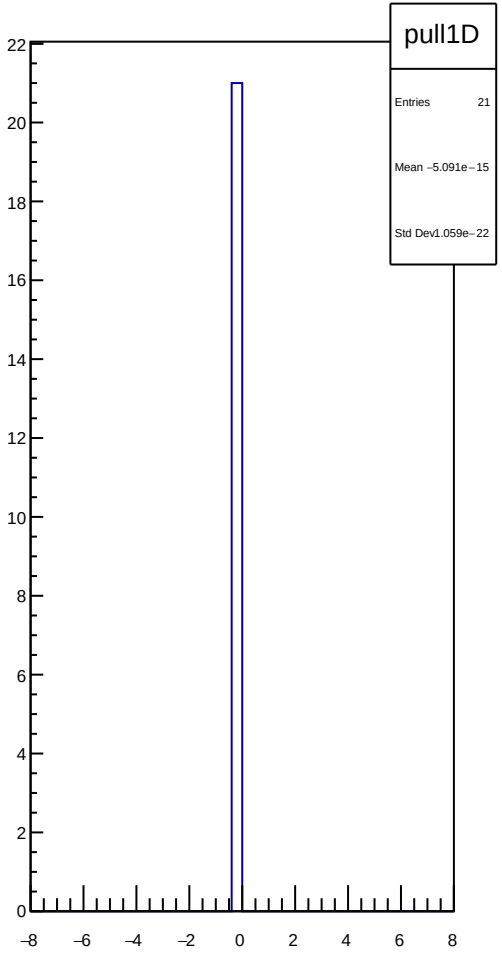

dit_sam4_4aY_slope vs run
χ² / ndf 1.343e−26 / 20
p0 −28.9 ± 0.09196
−28.4
−28.6
−28.8
−29
−29.2
−29.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055
25
20
15
10
5
0

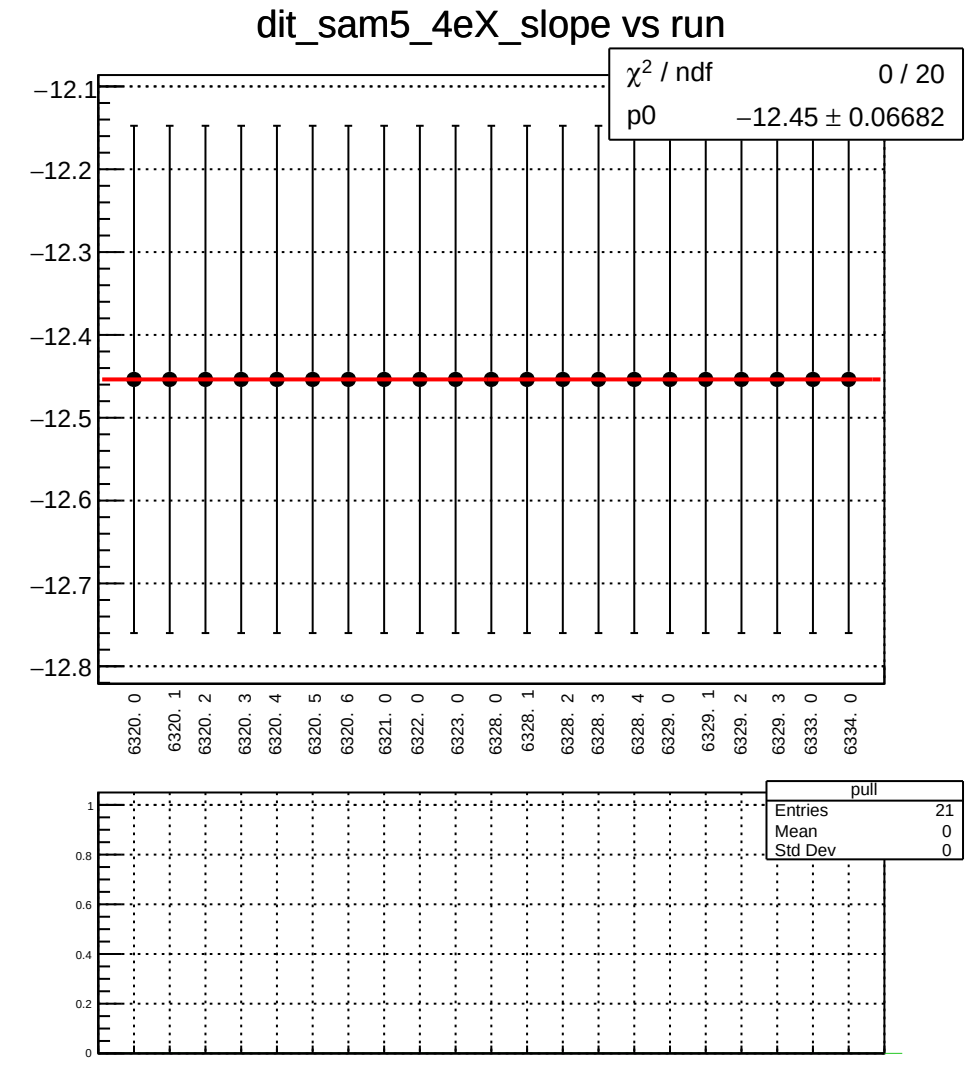

pull1D
Entries 21
Mean 2.529e−14
Std Dev 2.995e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

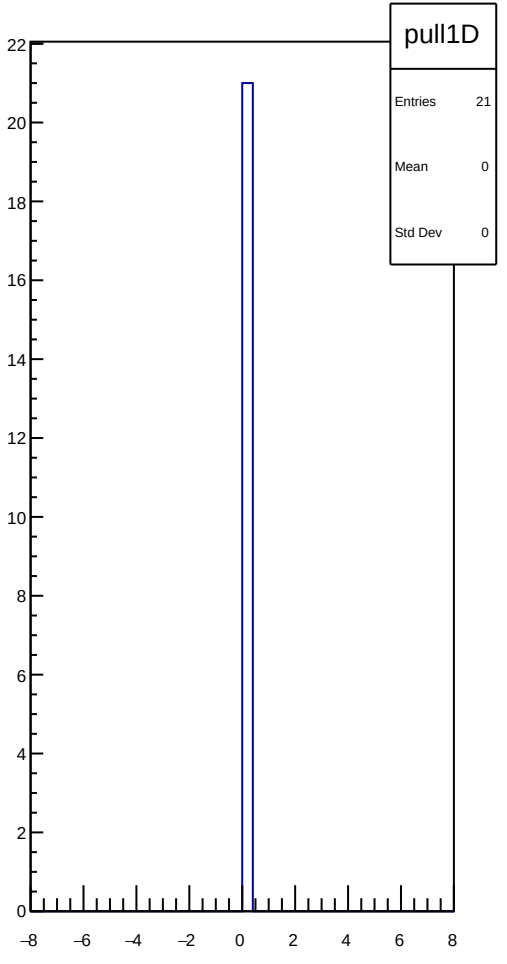

dit_sam4_4eY_slope vs run
χ² / ndf 4.577e−25 / 20
p0 287.2 ± 0.168
288
287.8
287.6
287.4
287.2
287
286.8
286.6
286.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 21
Mean 10.5
Std Dev 6.055

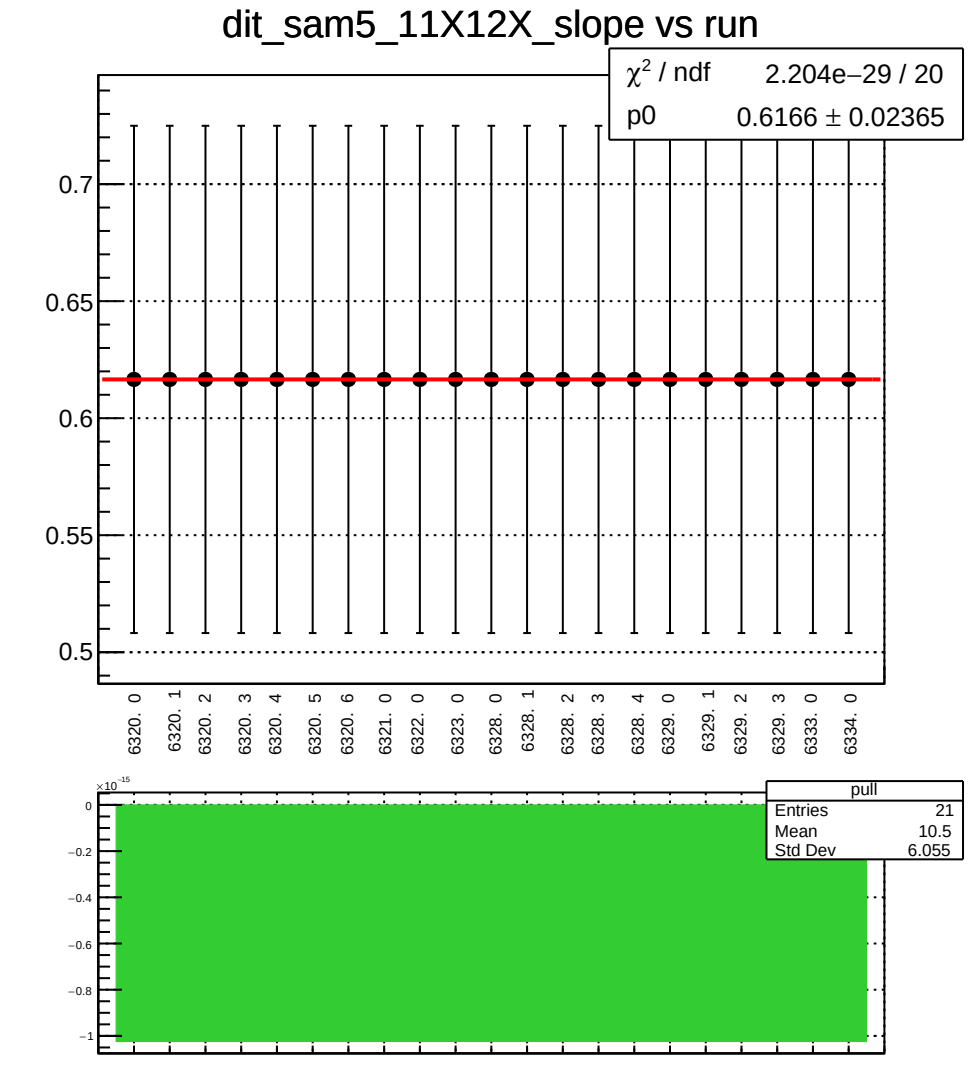

pull1D
Entries 21
Mean −1.476e−13
Std Dev3.388e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

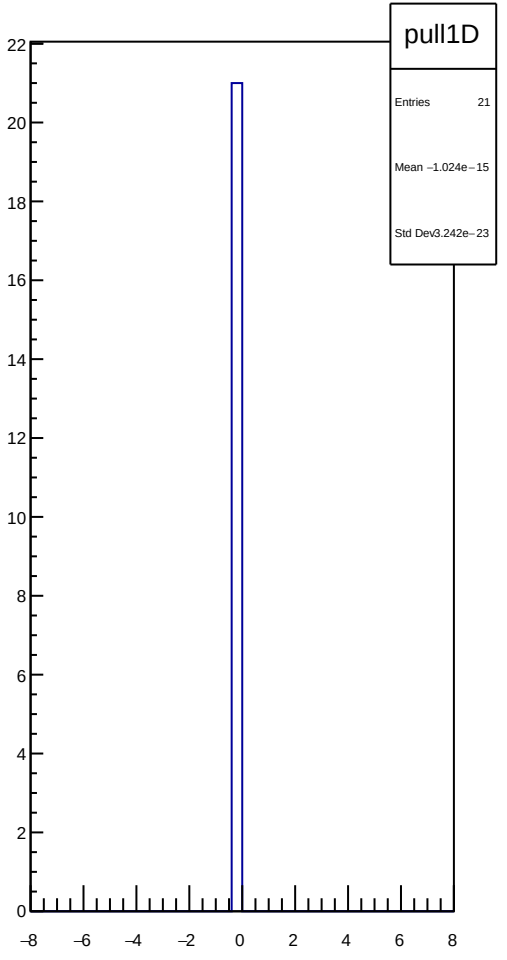

dit_sam5_4aX_slope vs run
χ² / ndf 5.442e−28 / 20
p0 6.523 ± 0.1523
7.2
7
6.8
6.6
6.4
6.2
6
5.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 21
Mean 10.5
Std Dev 6.055

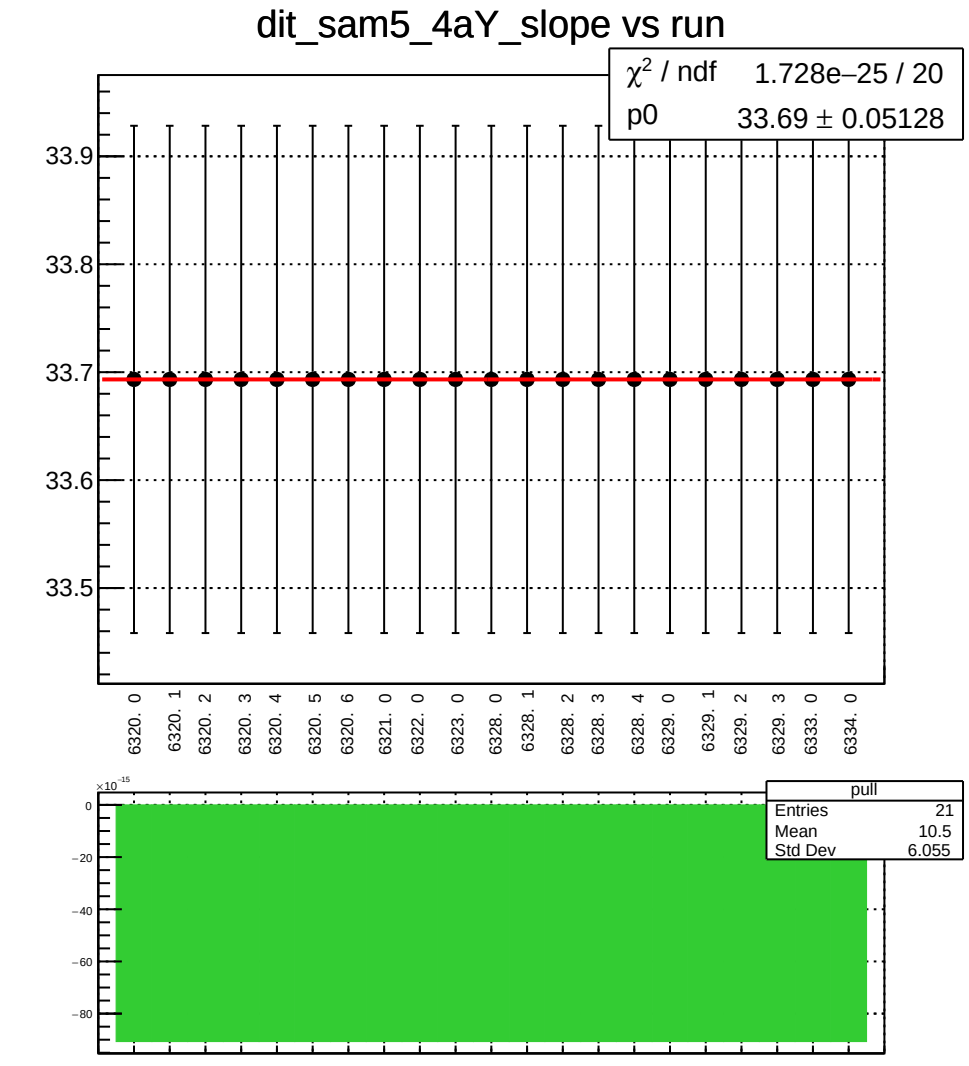

pull1D
Entries 21
Mean −5.091e−15
Std Dev1.059e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

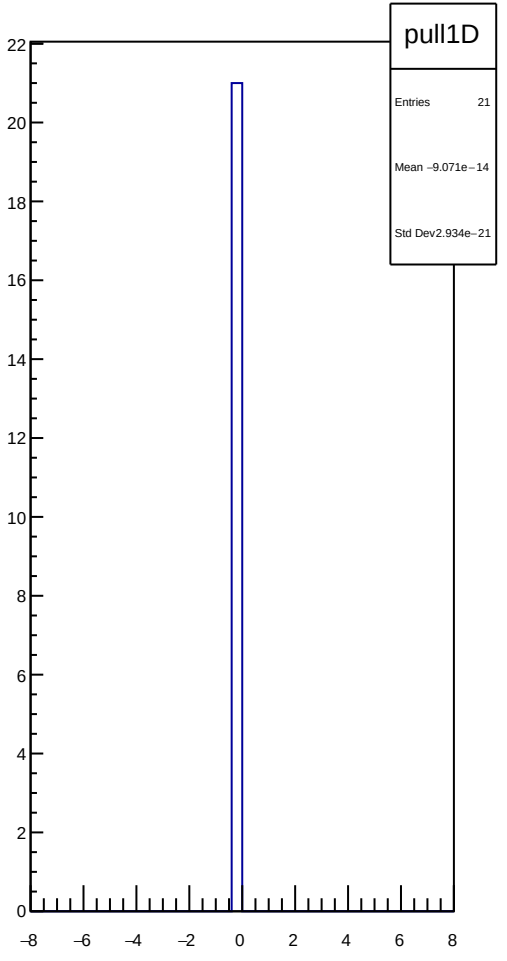

dit_sam5_4eX_slope vs run
χ² / ndf 0 / 20
p0 −12.45 ± 0.06682
−12.1
−12.2
−12.3
−12.4
−12.5
−12.6
−12.7
−12.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

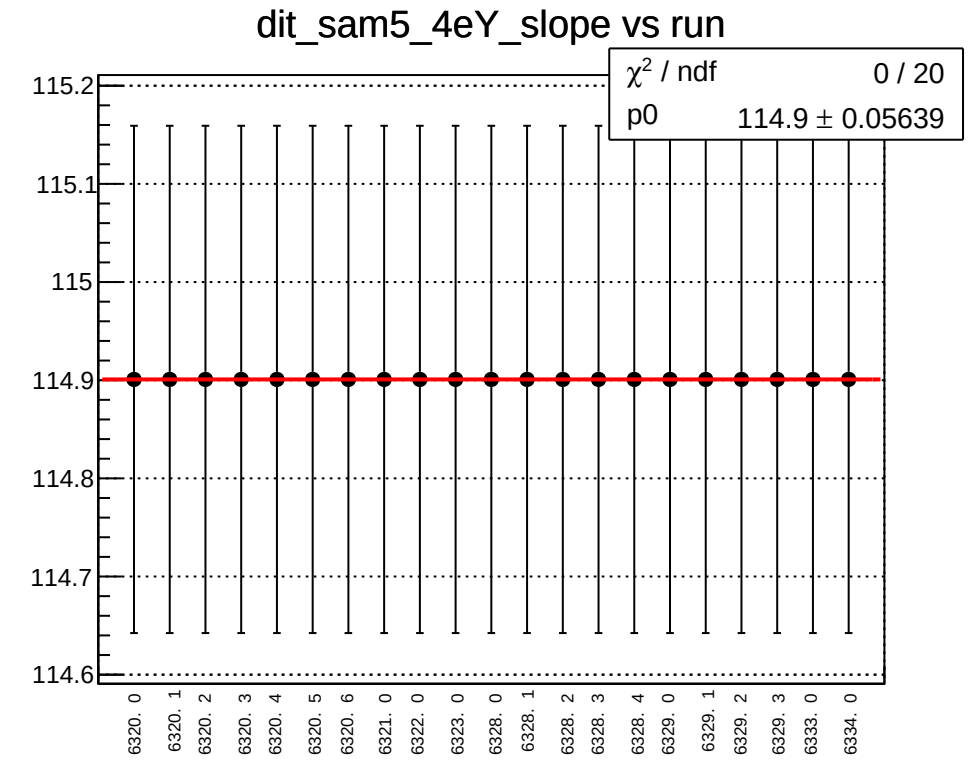

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

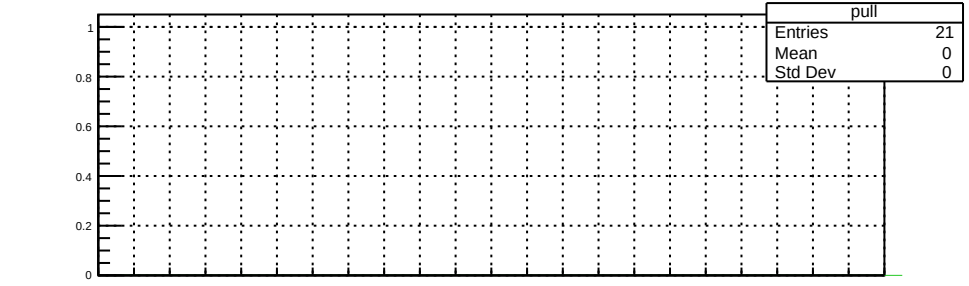

dit_sam5_11X12X_slope vs run
χ² / ndf 2.204e−29 / 20
p0 0.6166 ± 0.02365
0.7
0.65
0.6
0.55
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 21
Mean 10.5
Std Dev 6.055

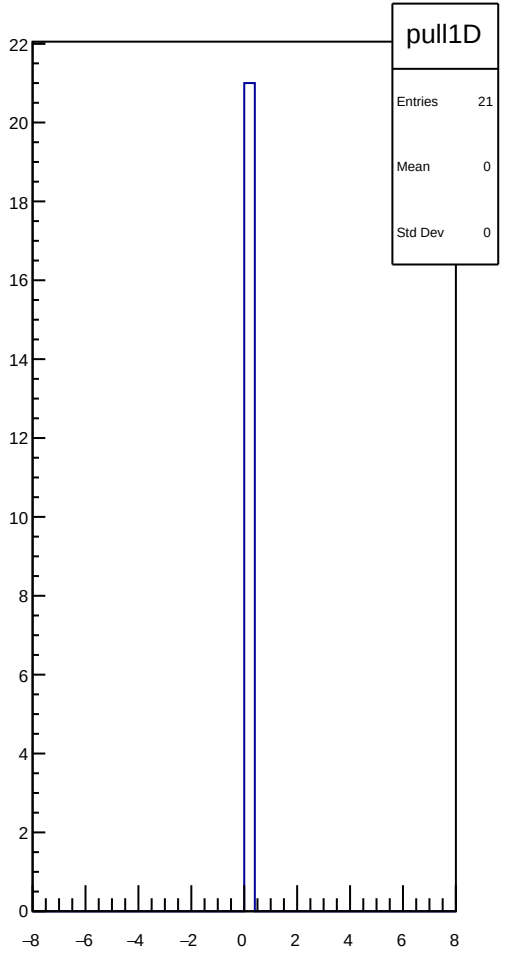

pull1D
Entries 21
Mean −1.024e−15
Std Dev3.242e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

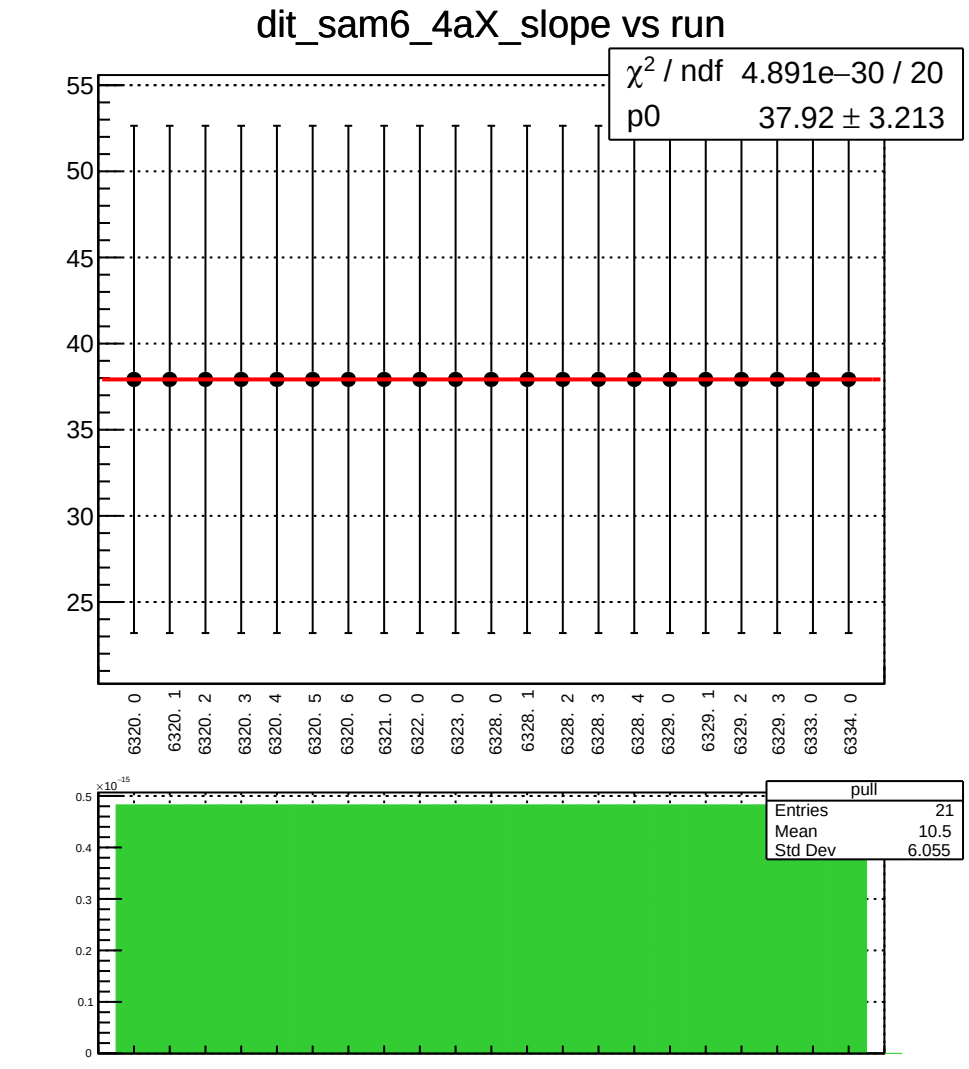

dit_sam5_4aY_slope vs run
χ² / ndf 1.728e−25 / 20
p0 33.69 ± 0.05128
33.9
33.8
33.7
33.6
33.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−20
−40
−60
−80
pull
Entries 21
Mean 10.5
Std Dev 6.055

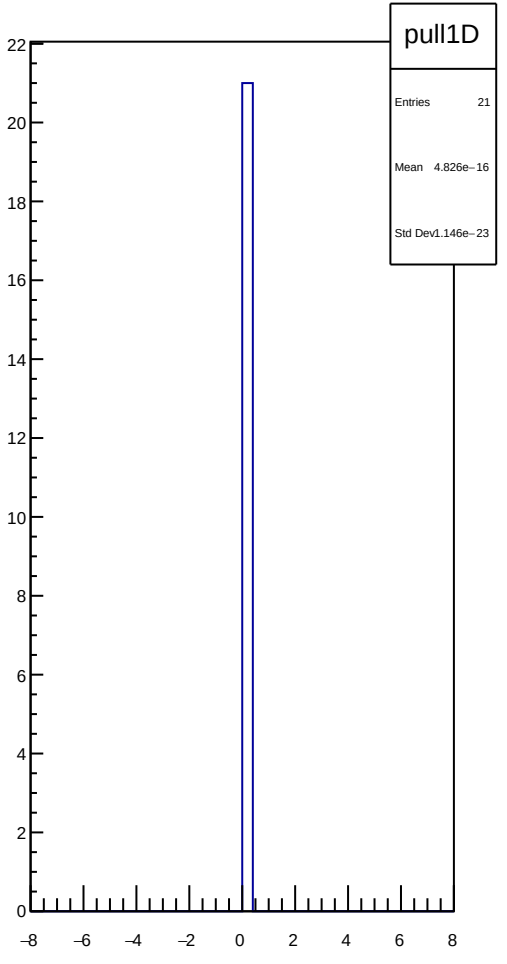

pull1D
Entries 21
Mean −9.071e−14
Std Dev2.934e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

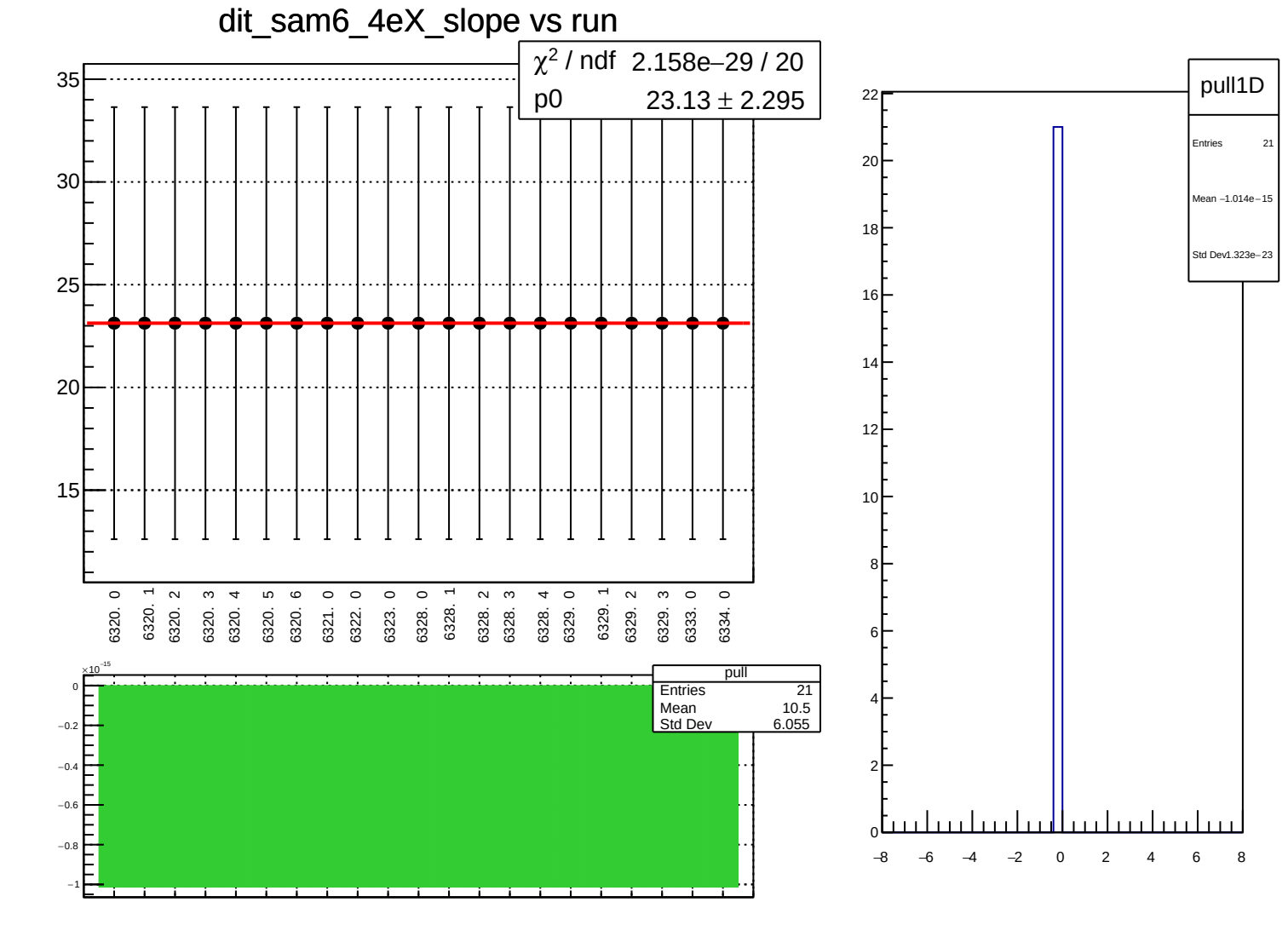

dit_sam5_4eY_slope vs run
χ² / ndf 0 / 20
p0 114.9 ± 0.05639
115.2
115.1
115
114.9
114.8
114.7
114.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

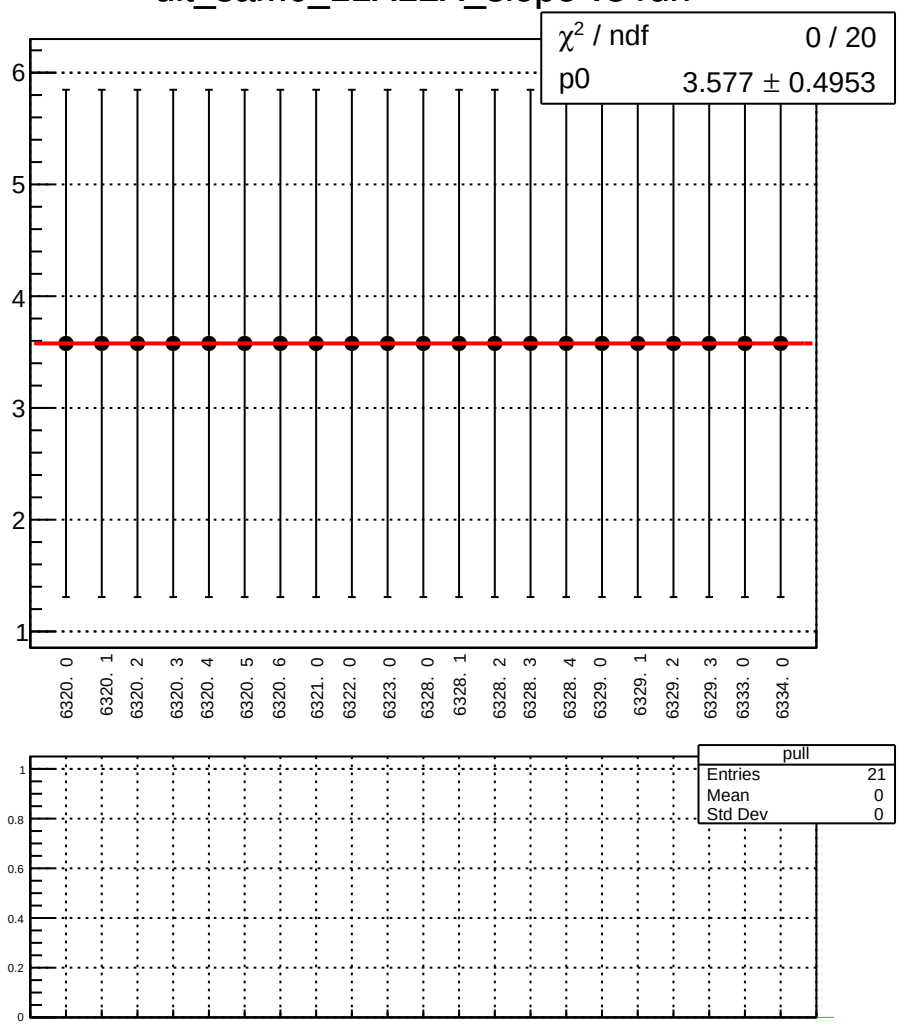

pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

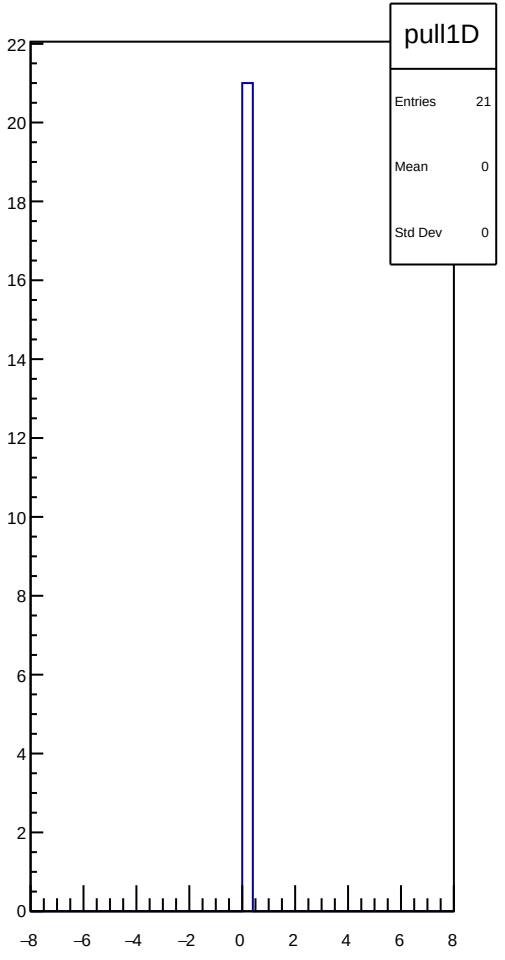

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

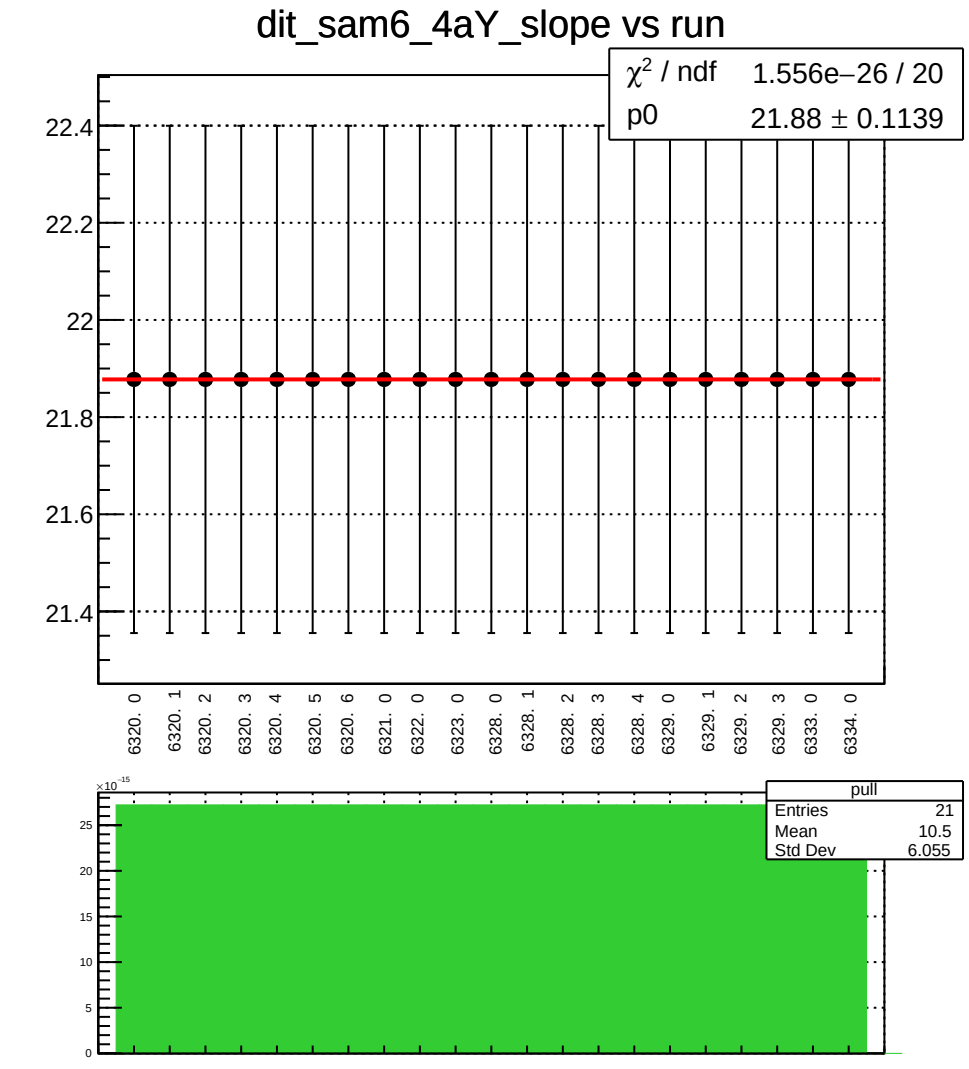

dit_sam6_4aX_slope vs run
χ² / ndf 4.891e−30 / 20
p0 37.92 ± 3.213
55
50
45
40
35
30
25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

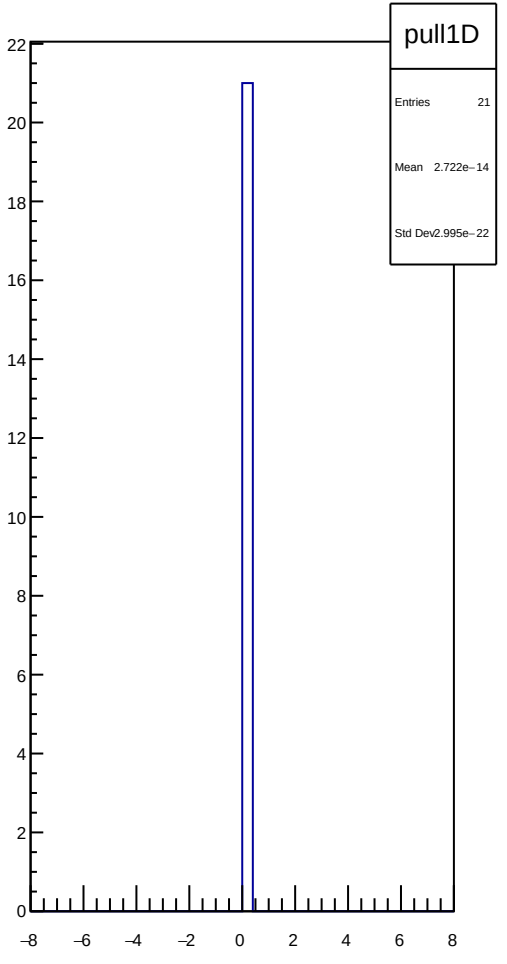

pull1D
Entries 21
Mean 4.826e−16
Std Dev1.146e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

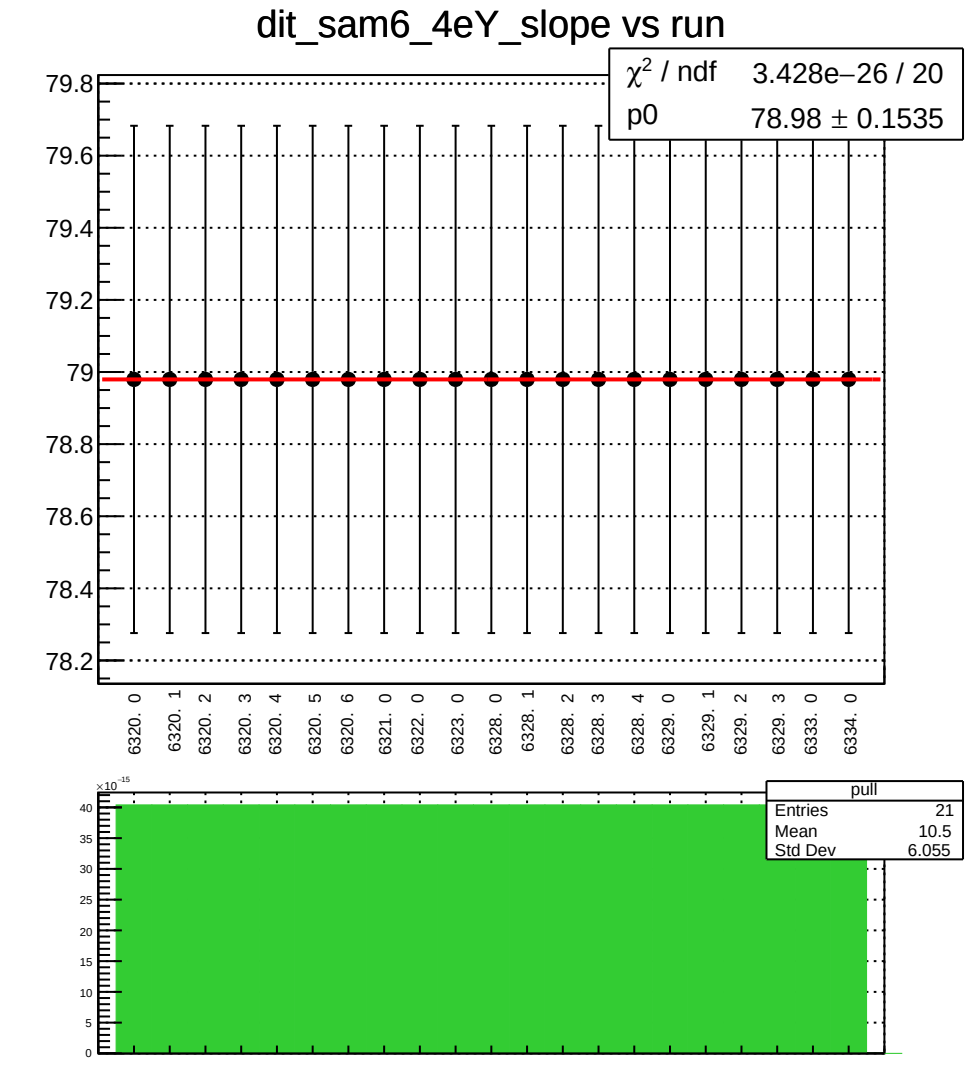

dit_sam6_4eX_slope vs run
χ² / ndf 2.158e−29 / 20
p0 23.13 ± 2.295
35
30
25
20
15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean −1.014e−15
Std Dev1.323e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

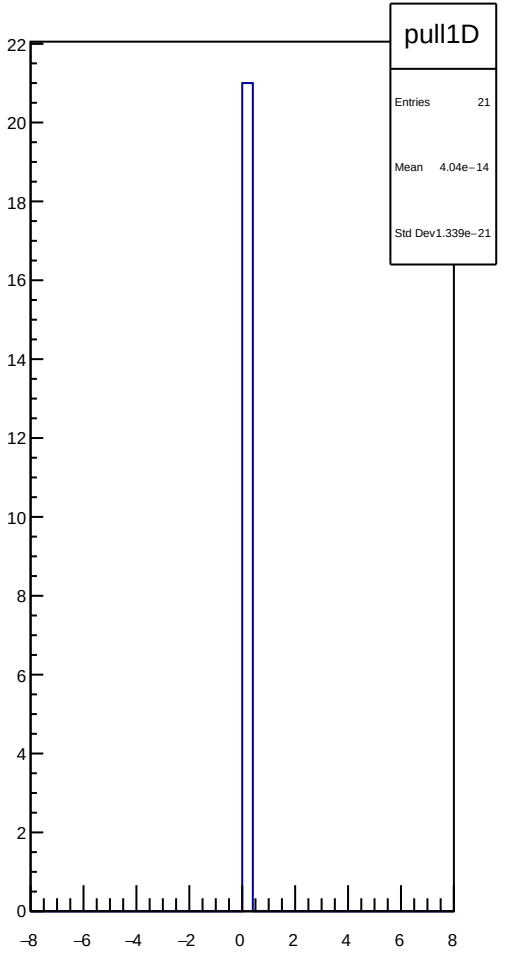

dit_sam6_11X12X_slope vs run
χ² / ndf 0 / 20
p0 3.577 ± 0.4953
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0

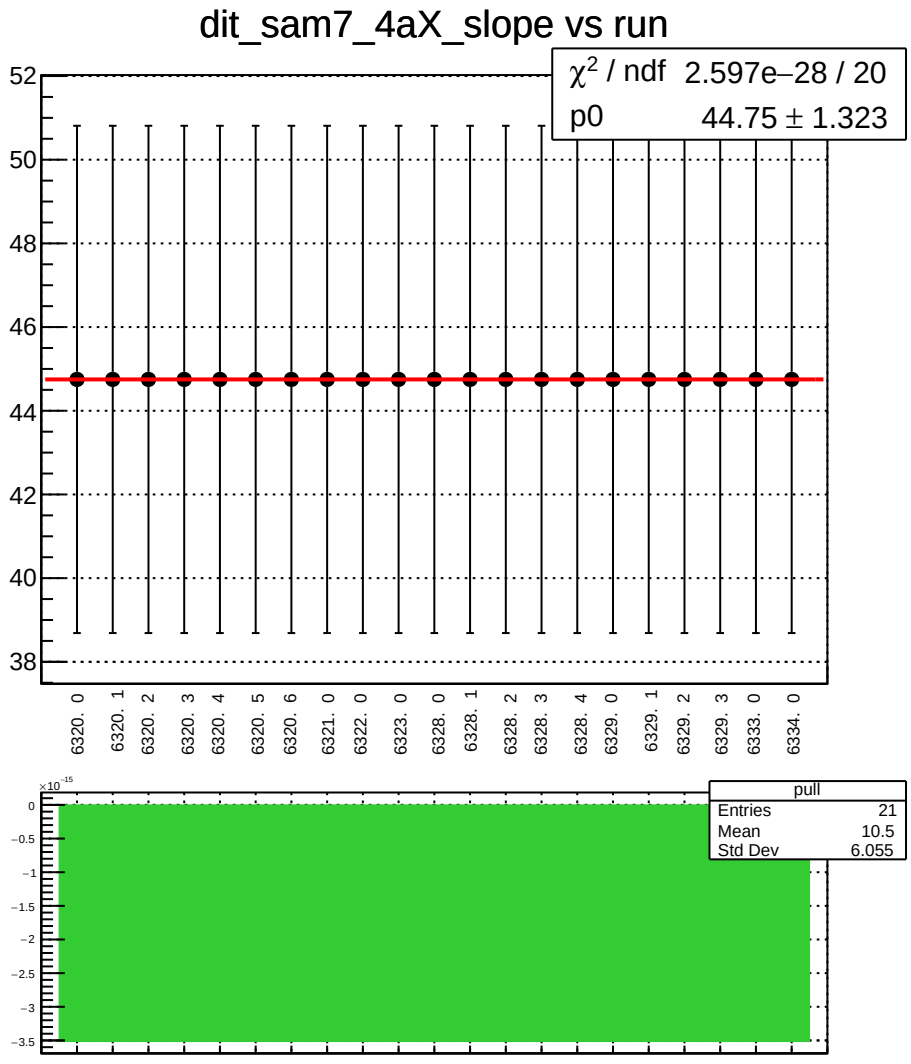

pull1D
Entries 21
Mean 0
Std Dev 0

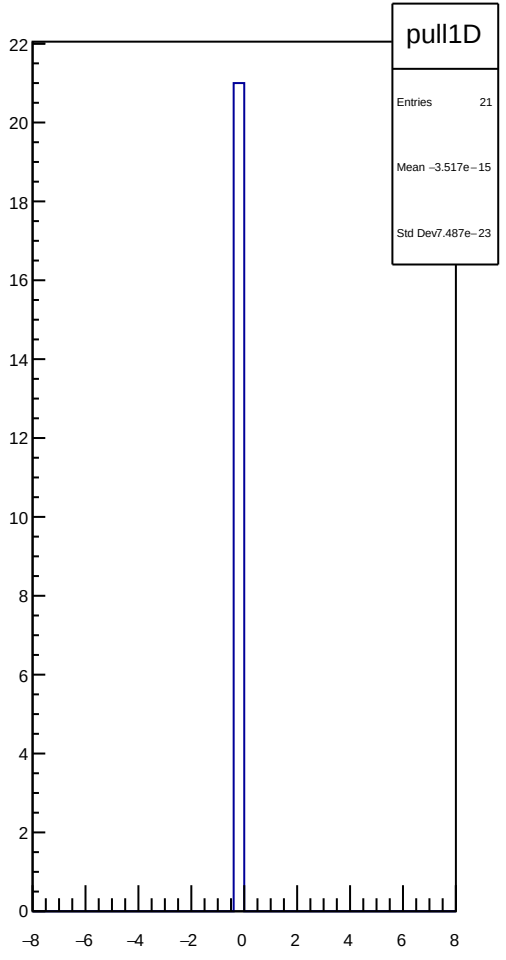

dit_sam6_4aY_slope vs run
χ² / ndf 1.556e−26 / 20
p0 21.88 ± 0.1139
22.4
22.2
22
21.8
21.6
21.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

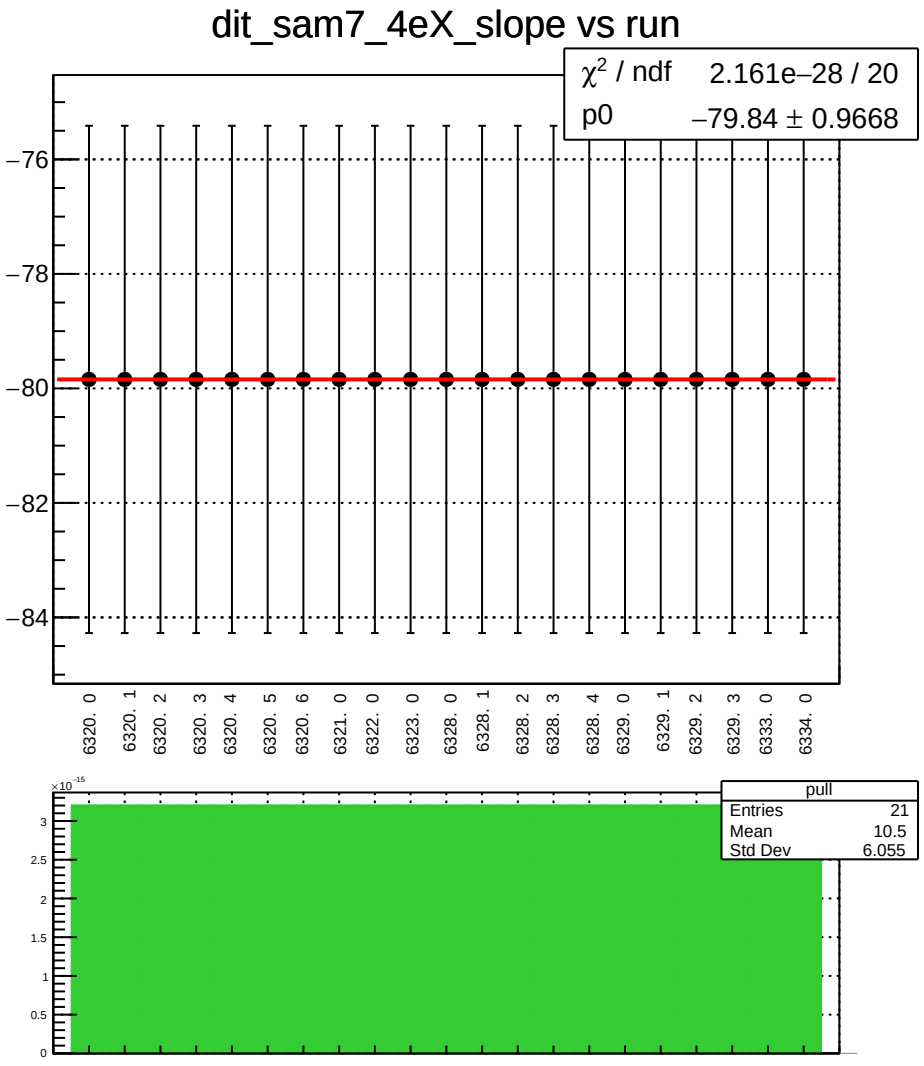

pull1D
Entries 21
Mean 2.722e−14
Std Dev 2.995e−22
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

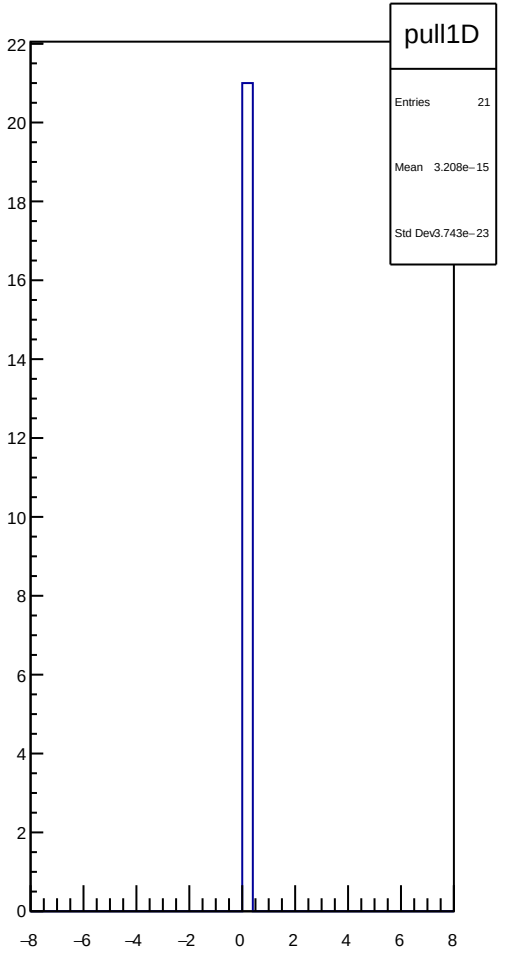

dit_sam6_4eY_slope vs run
χ² / ndf 3.428e−26 / 20
p0 78.98 ± 0.1535
79.8
79.6
79.4
79.2
79
78.8
78.6
78.4
78.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
×10⁻¹⁵
40
35
30
25
20
15
10
5
0

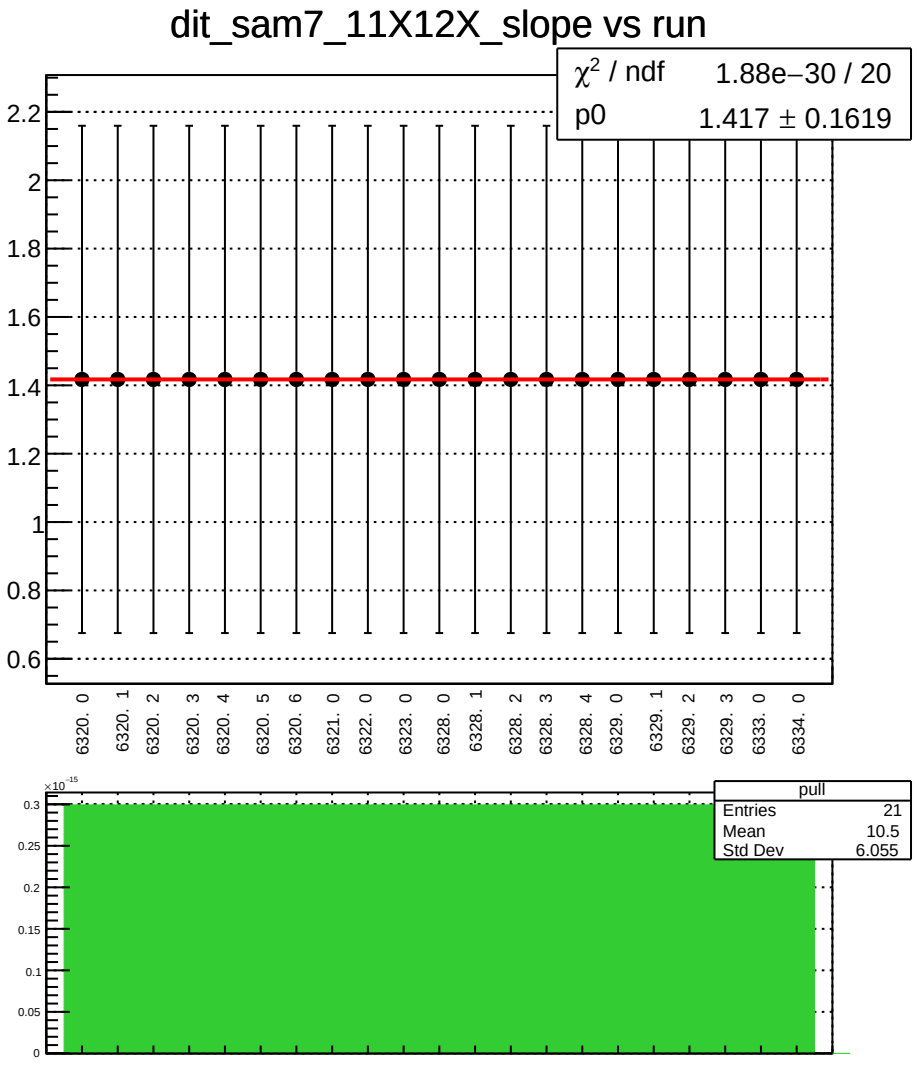

pull1D
Entries 21
Mean 4.04e−14
Std Dev 1.339e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

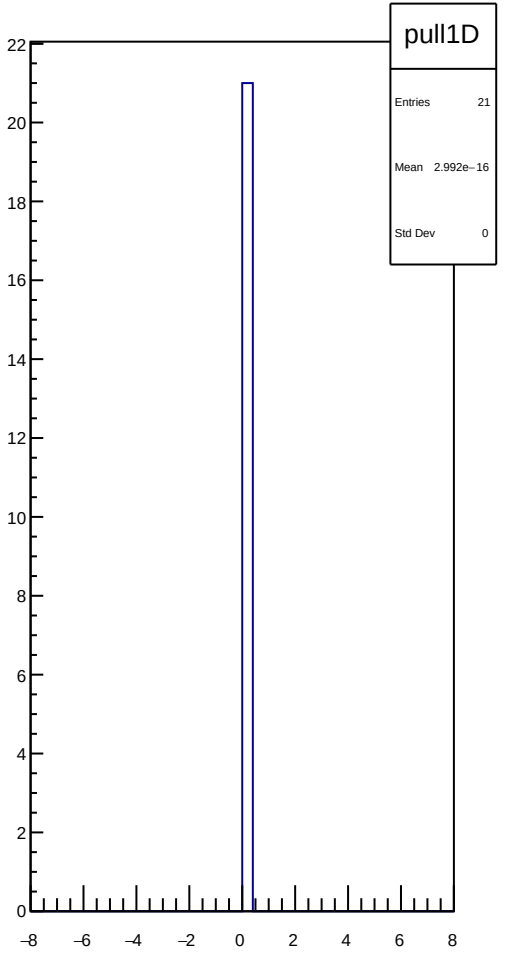

dit_sam7_4aX_slope vs run
χ² / ndf 2.597e−28 / 20
p0 44.75 ± 1.323
52
50
48
46
44
42
40
38
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 21
Mean 10.5
Std Dev 6.055

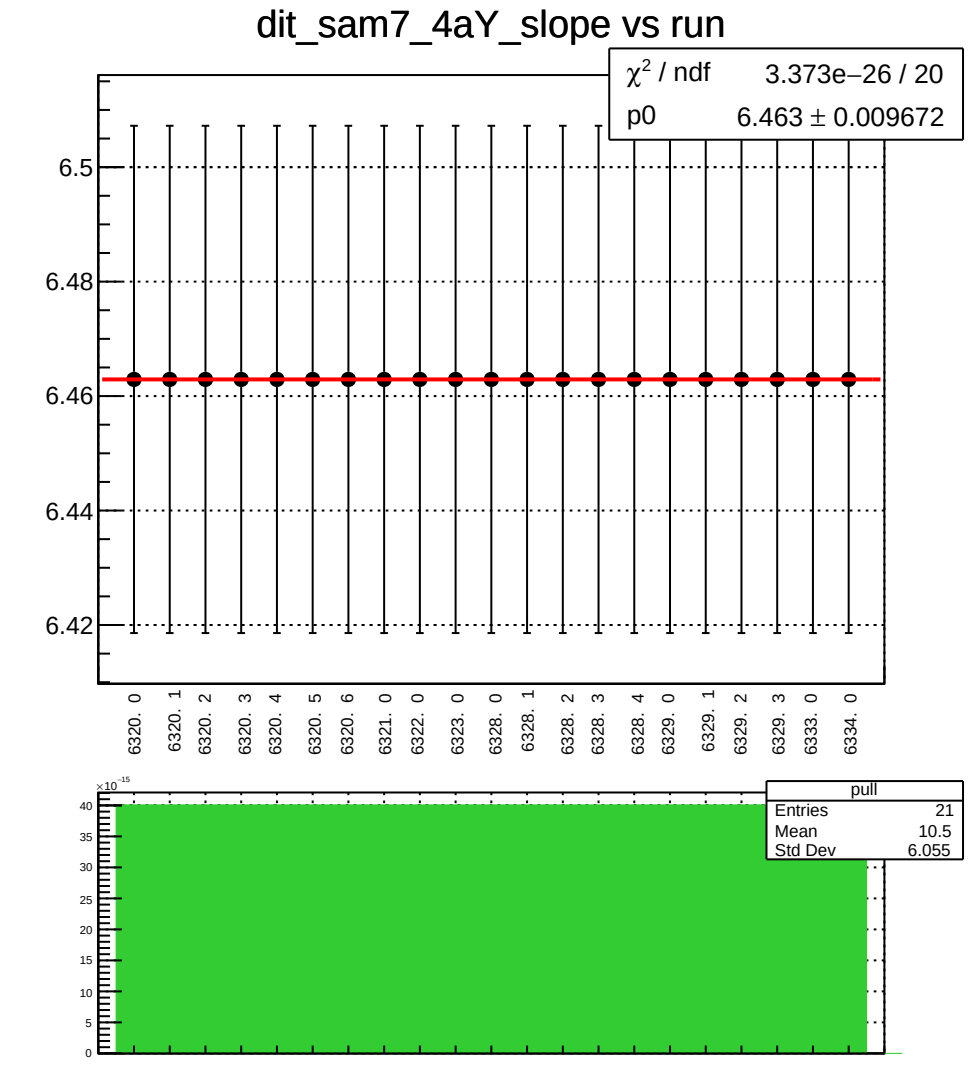

pull1D
Entries 21
Mean −3.517e−15
Std Dev7.487e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

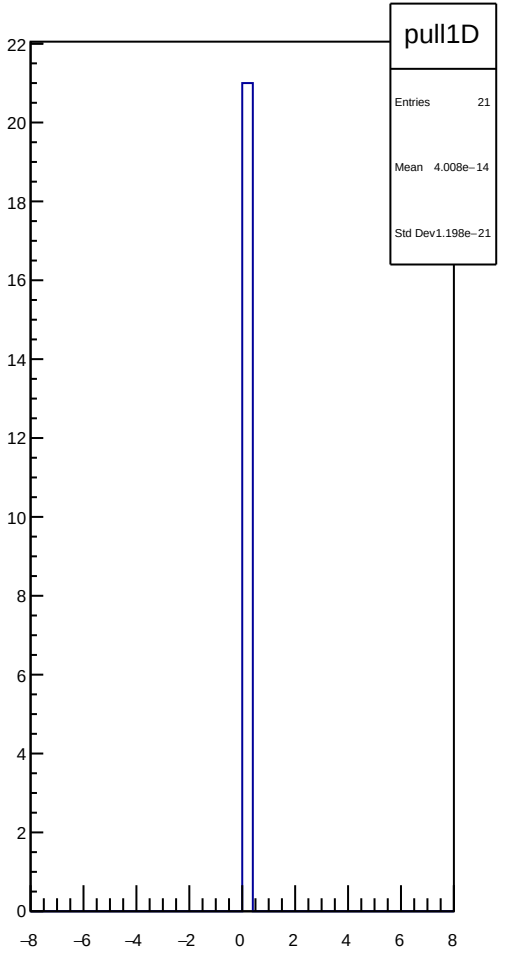

dit_sam7_4eX_slope vs run
χ² / ndf 2.161e−28 / 20
p0 −79.84 ± 0.9668
−76
−78
−80
−82
−84
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

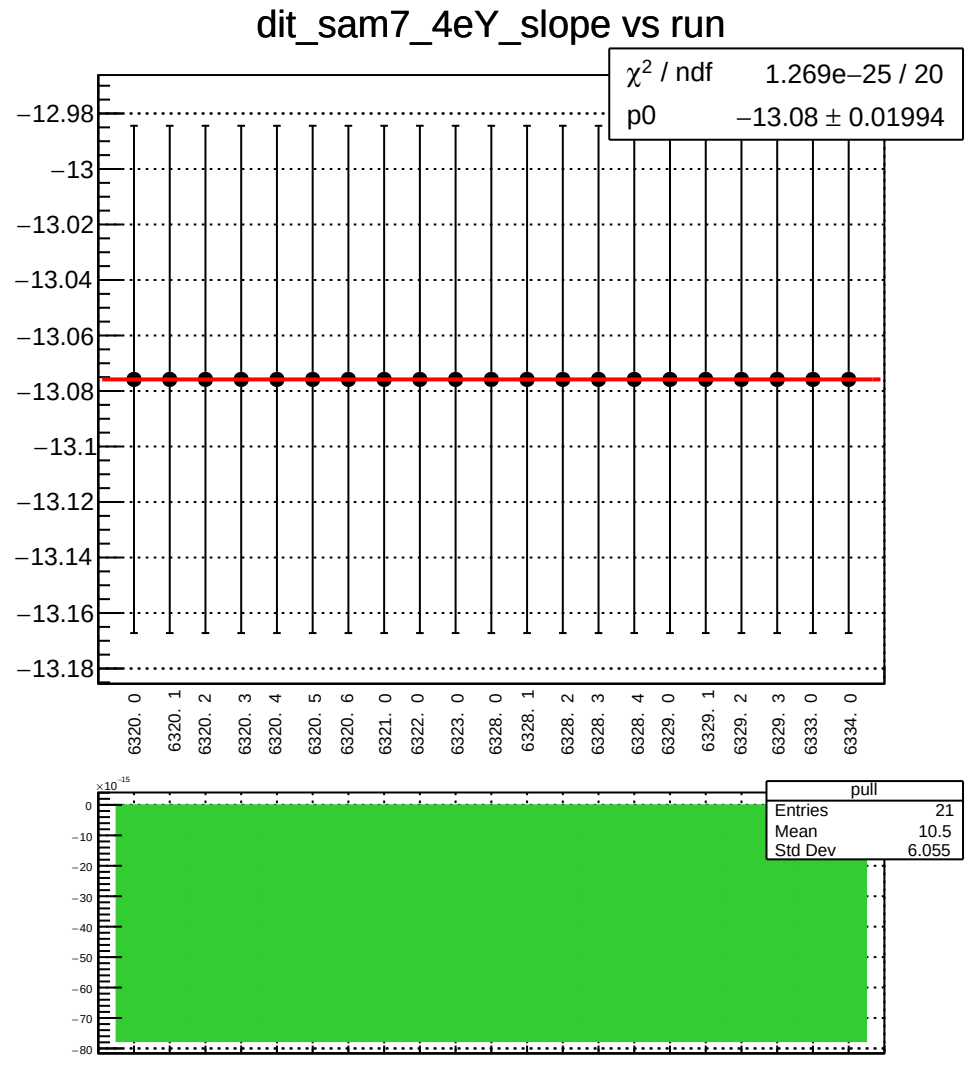

pull1D
Entries 21
Mean 3.208e−15
Std Dev 3.743e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

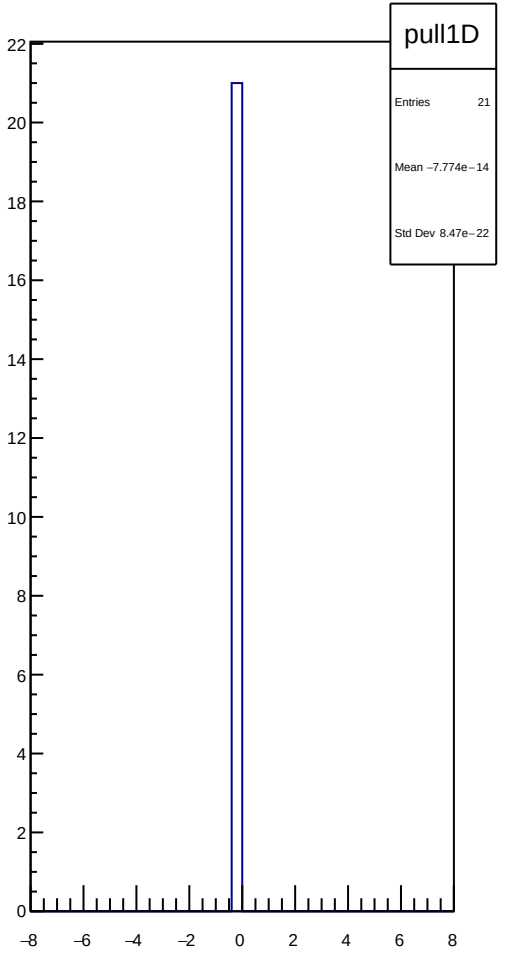

dit_sam7_11X12X_slope vs run
χ² / ndf 1.88e−30 / 20
p0 1.417 ± 0.1619
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

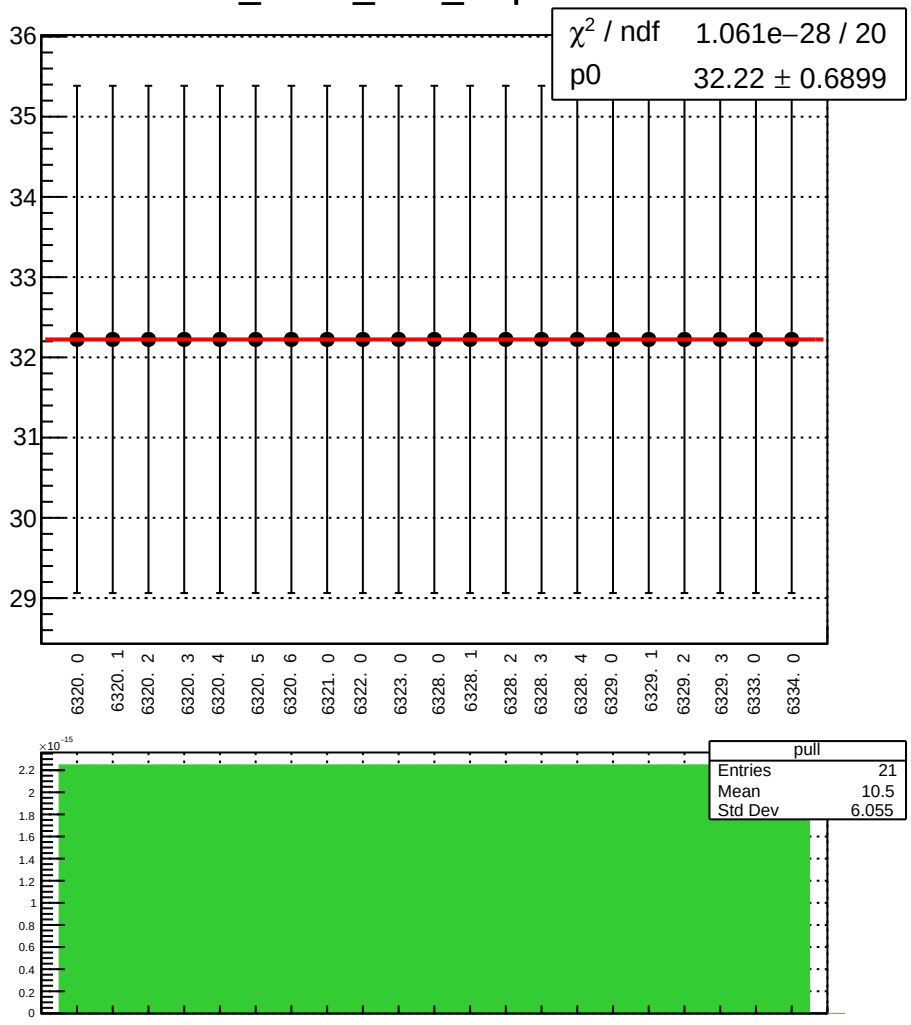

pull1D
Entries 21
Mean 2.992e−16
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

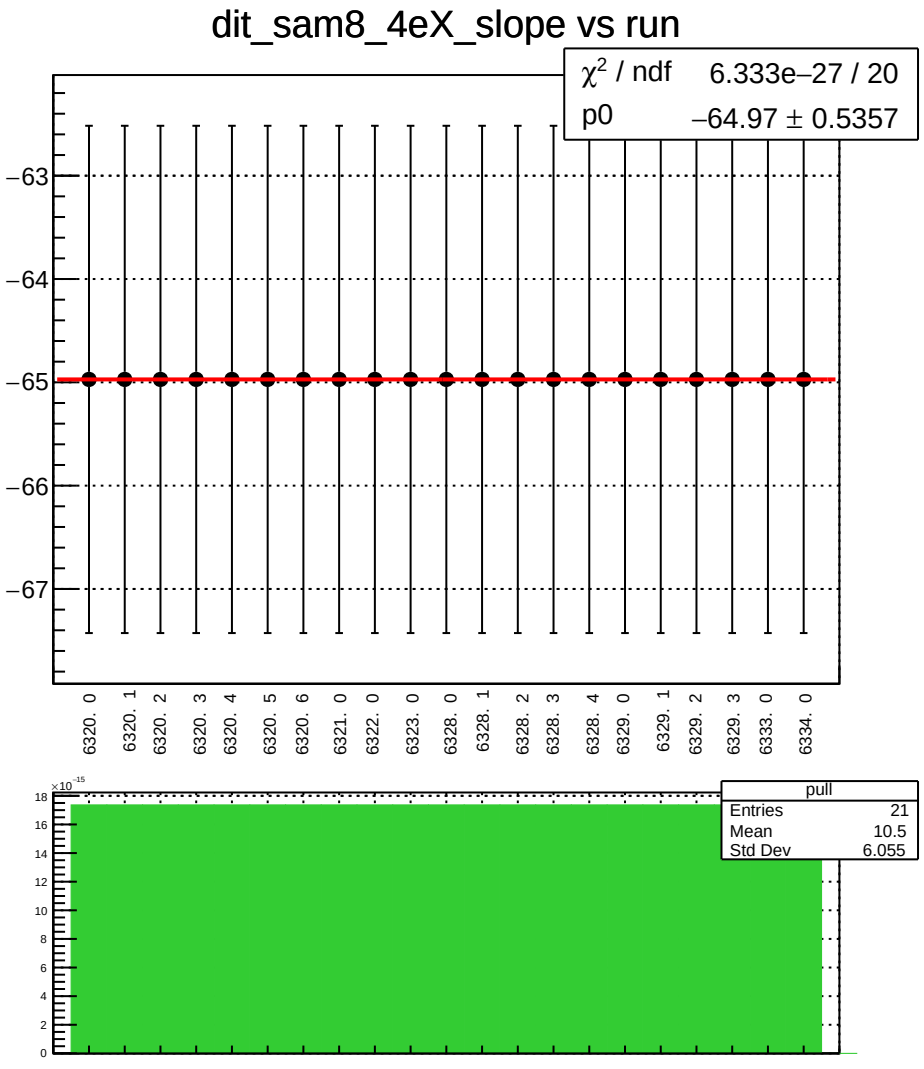

dit_sam7_4aY_slope vs run
χ² / ndf 3.373e−26 / 20
p0 6.463 ± 0.009672
6.5
6.48
6.46
6.44
6.42
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
40
35
30
25
20
15
10
5
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

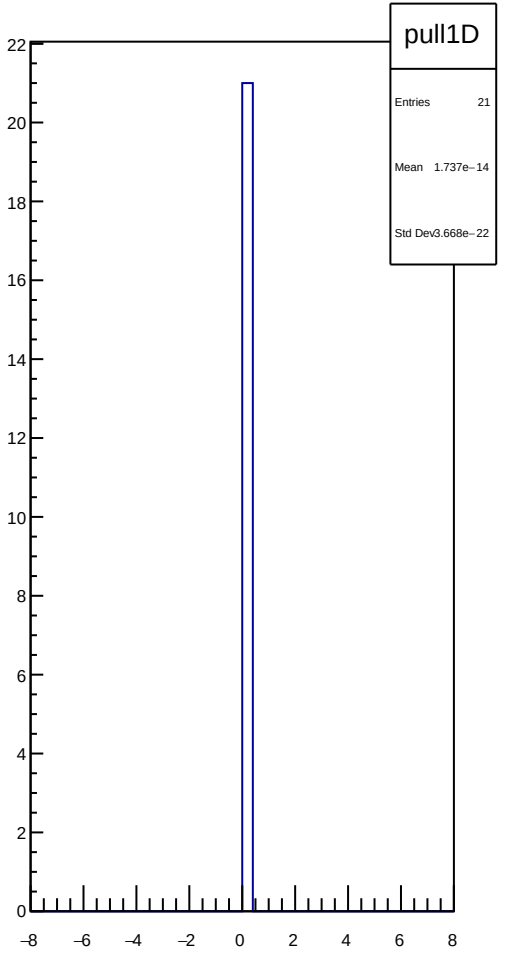

pull1D
Entries 21
Mean 4.008e−14
Std Dev1.198e−21
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

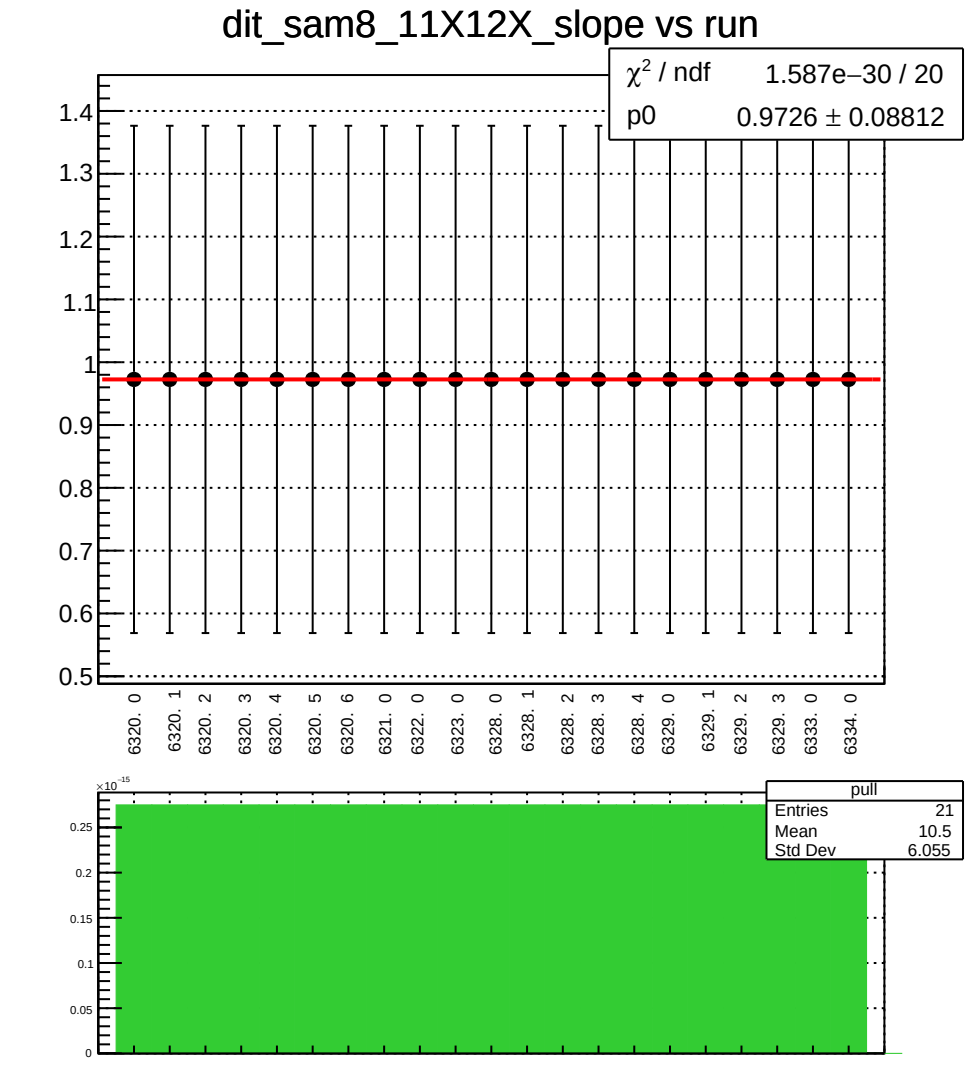

dit_sam7_4eY_slope vs run
χ² / ndf 1.269e−25 / 20
p0 −13.08 ± 0.01994
−12.98
−13
−13.02
−13.04
−13.06
−13.08
−13.1
−13.12
−13.14
−13.16
−13.18
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

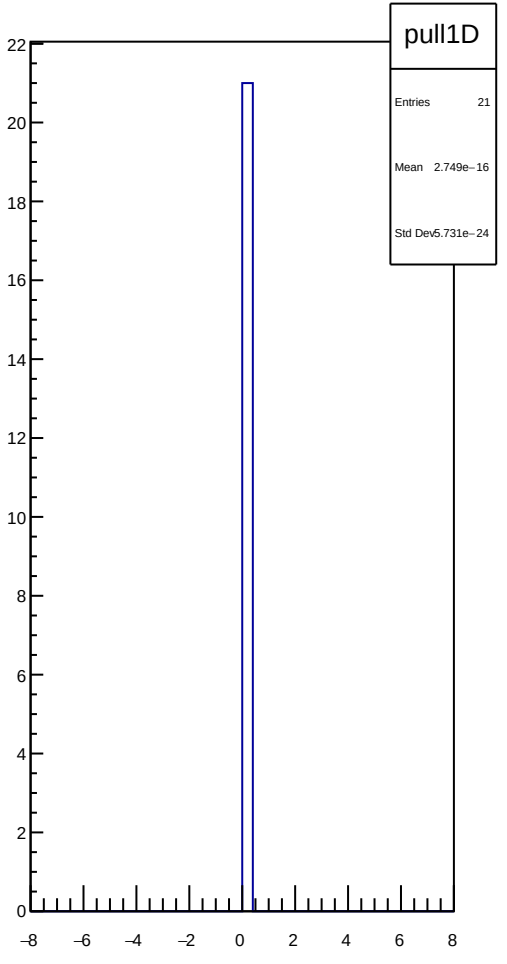

pull1D
Entries 21
Mean −7.774e−14
Std Dev 8.47e−22

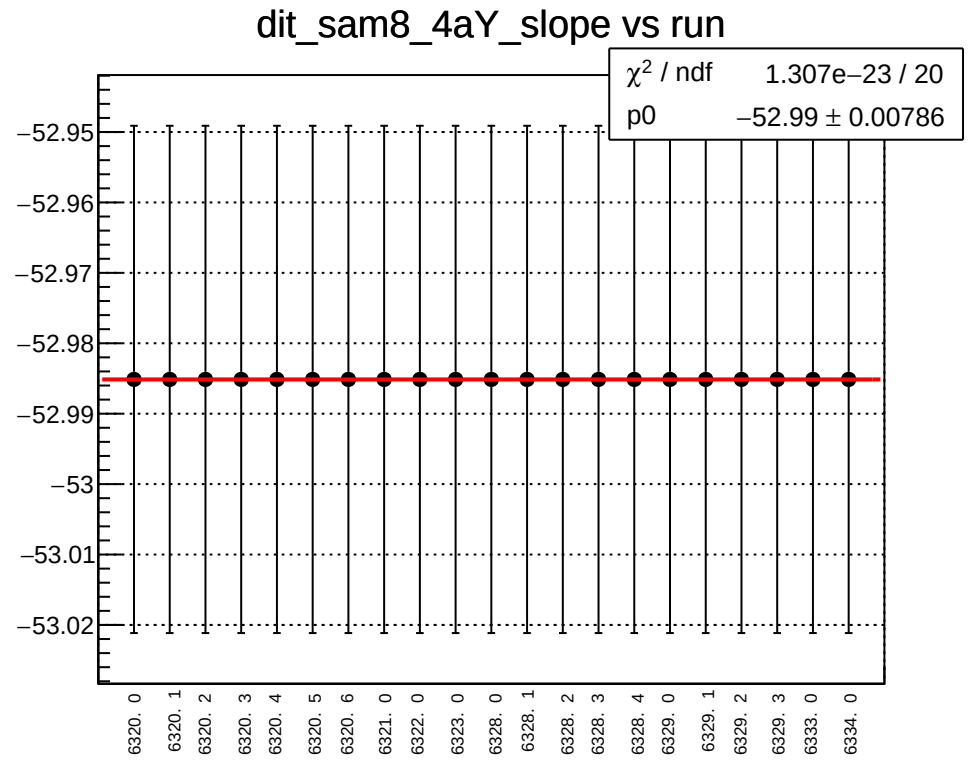

dit_sam8_4aX_slope vs run
χ² / ndf 1.061e−28 / 20
p0 32.22 ± 0.6899
36
35
34
33
32
31
30
29
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean 2.248e−15
Std Dev 2.647e−23
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

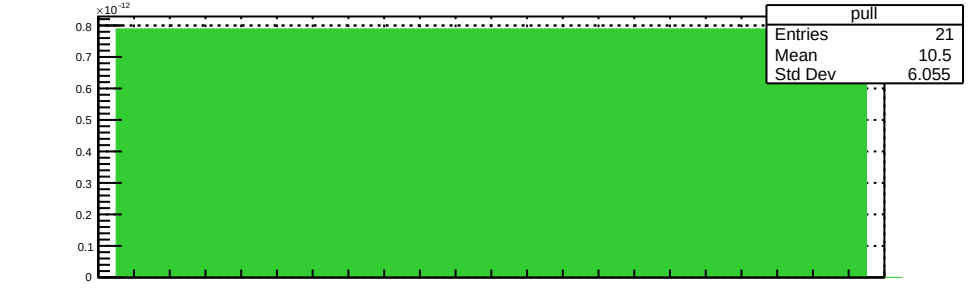

dit_sam8_4eX_slope vs run
χ² / ndf 6.333e−27 / 20
p0 −64.97 ± 0.5357
−63
−64
−65
−66
−67
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
pull
Entries 21
Mean 10.5
Std Dev 6.055

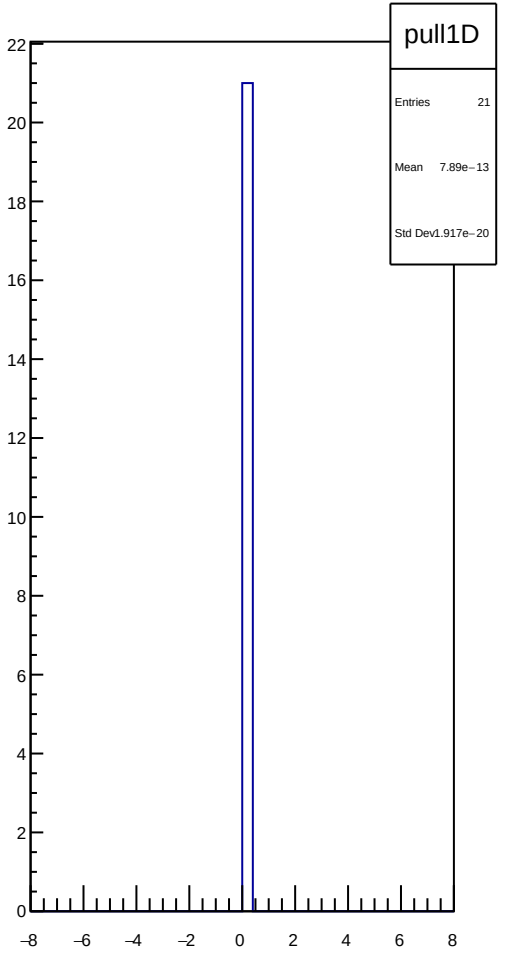

pull1D
Entries 21
Mean 1.737e−14
Std Dev 3.668e−22

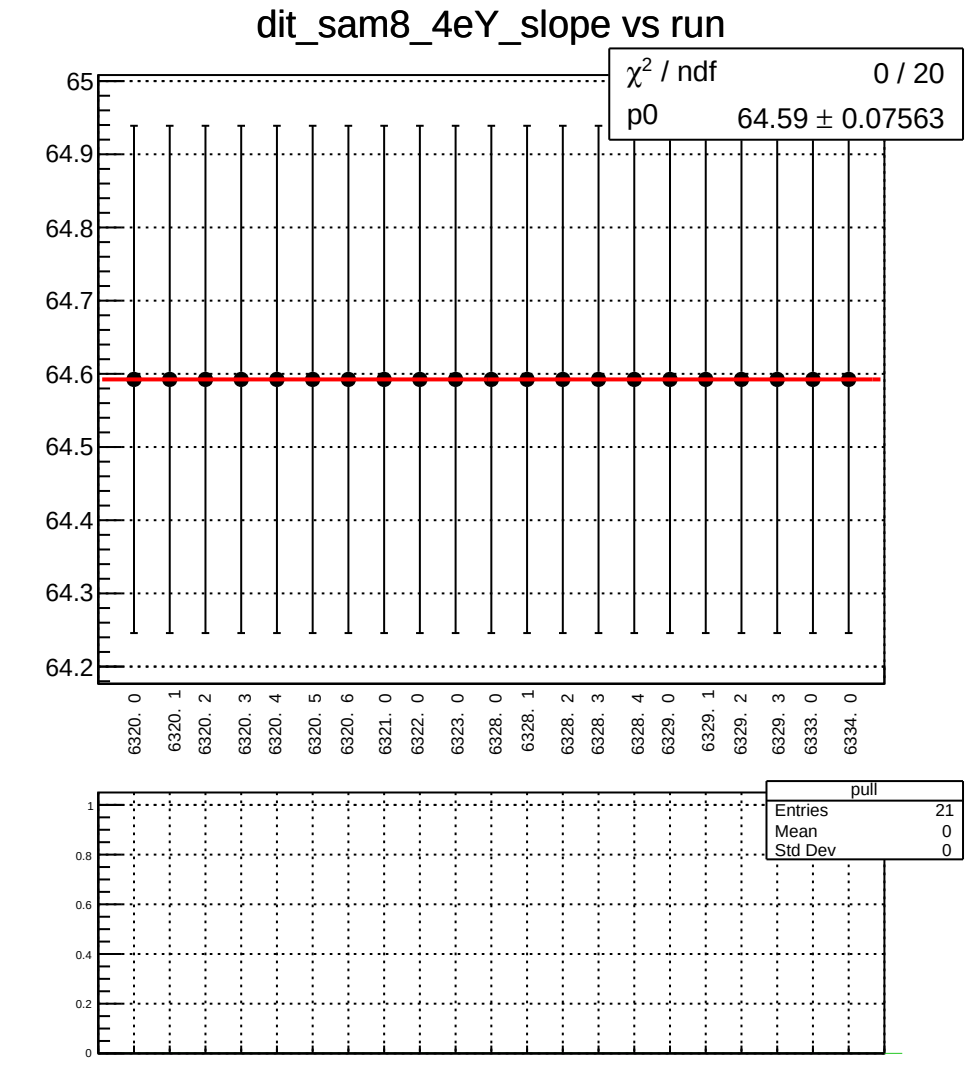

dit_sam8_11X12X_slope vs run
χ² / ndf 1.587e−30 / 20
p0 0.9726 ± 0.08812
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁻¹⁵
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

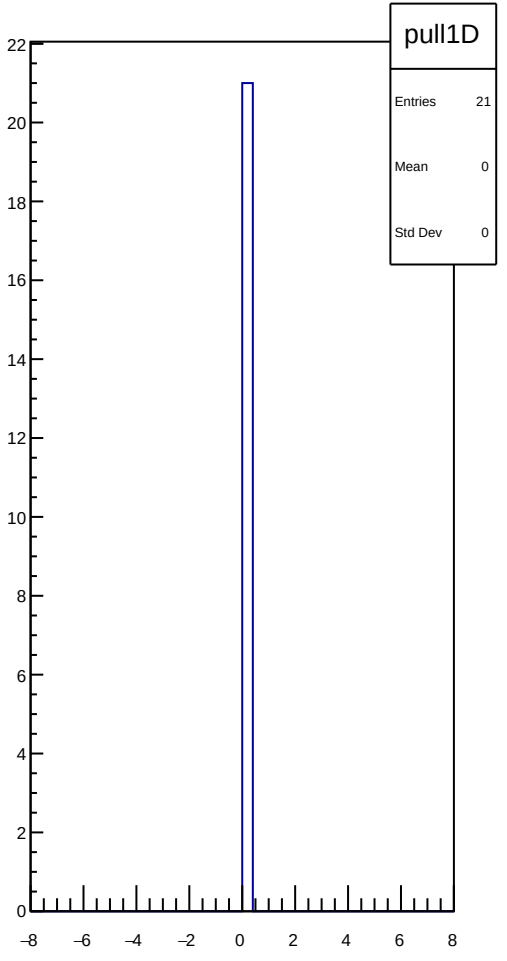

pull1D
Entries 21
Mean 2.749e−16
Std Dev 5.731e−24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

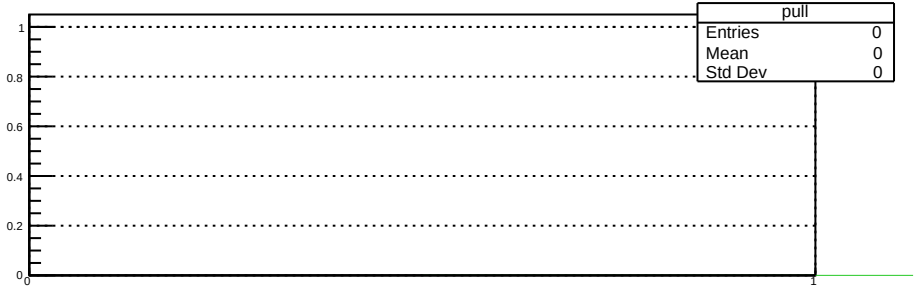

dit_sam8_4aY_slope vs run
χ² / ndf 1.307e−23 / 20
p0 −52.99 ± 0.00786
−52.95
−52.96
−52.97
−52.98
−52.99
−53
−53.01
−53.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

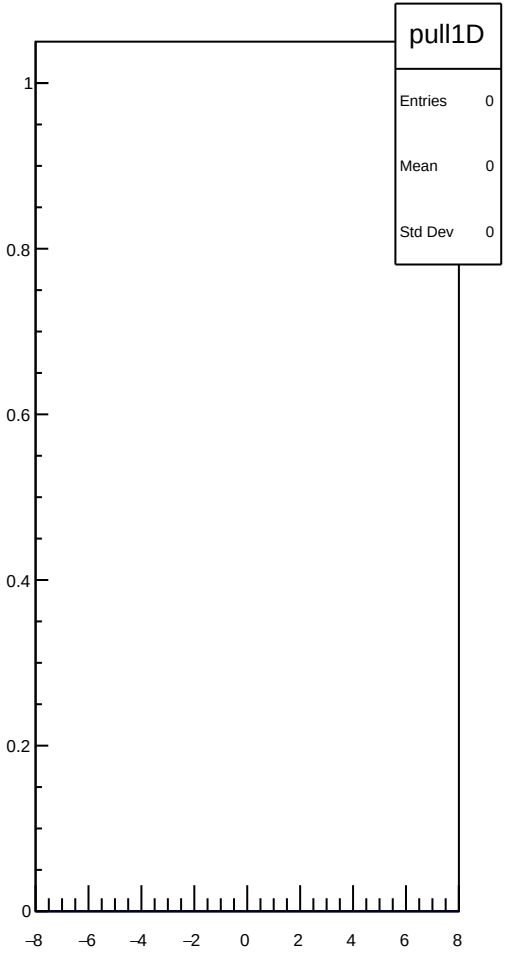

×10⁻¹²
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 21
Mean 10.5
Std Dev 6.055

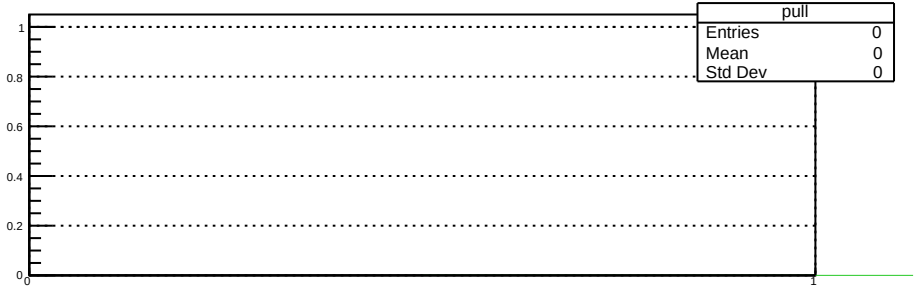

pull1D
Entries 21
Mean 7.89e−13
Std Dev1.917e−20
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

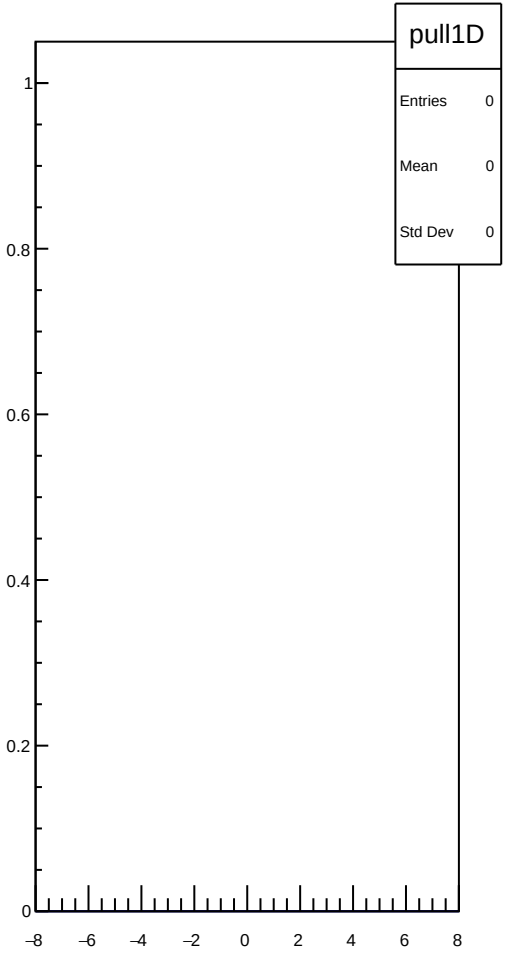

dit_sam8_4eY_slope vs run
χ² / ndf 0 / 20
p0 64.59 ± 0.07563
65
64.9
64.8
64.7
64.6
64.5
64.4
64.3
64.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

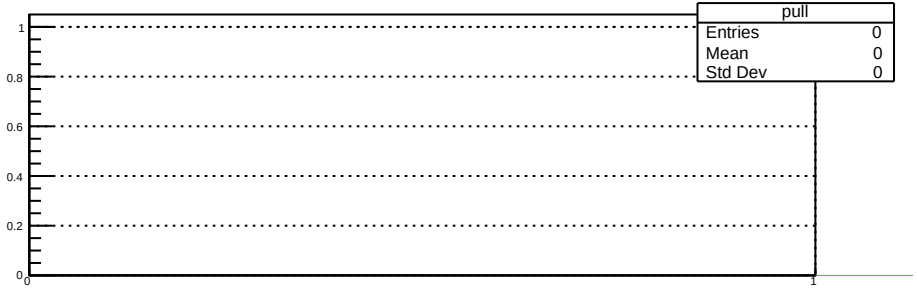

pull1D
Entries 21
Mean 0
Std Dev 0
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

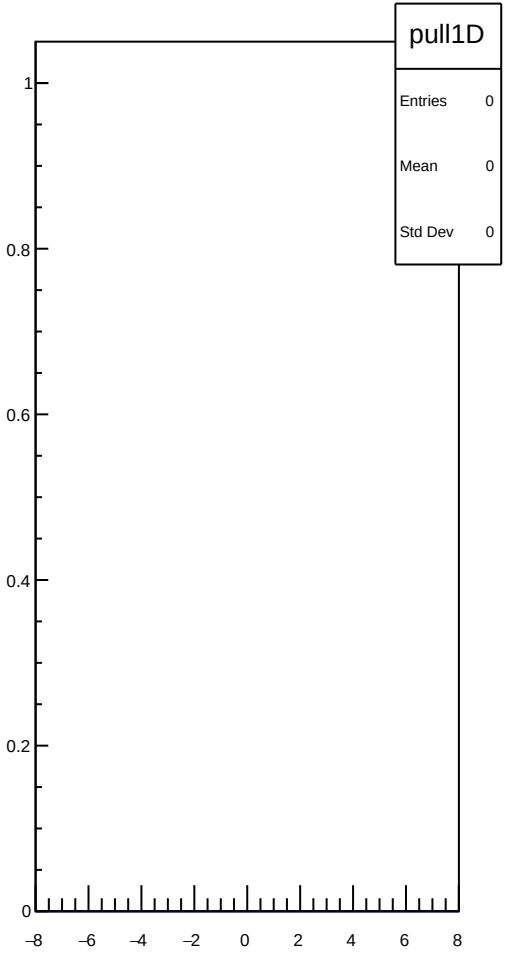

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

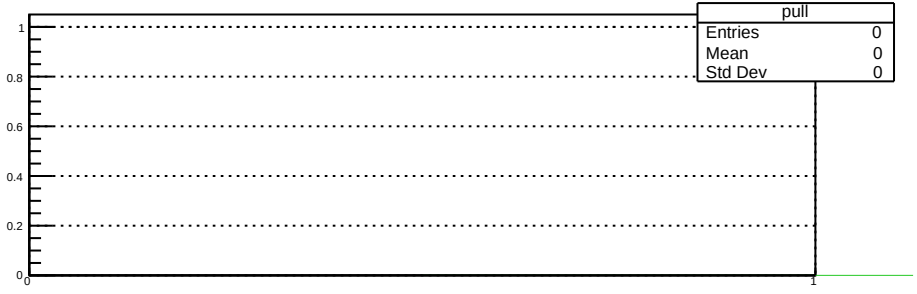

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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


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


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


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


pull
Entries 0
Mean 0
Std Dev 0
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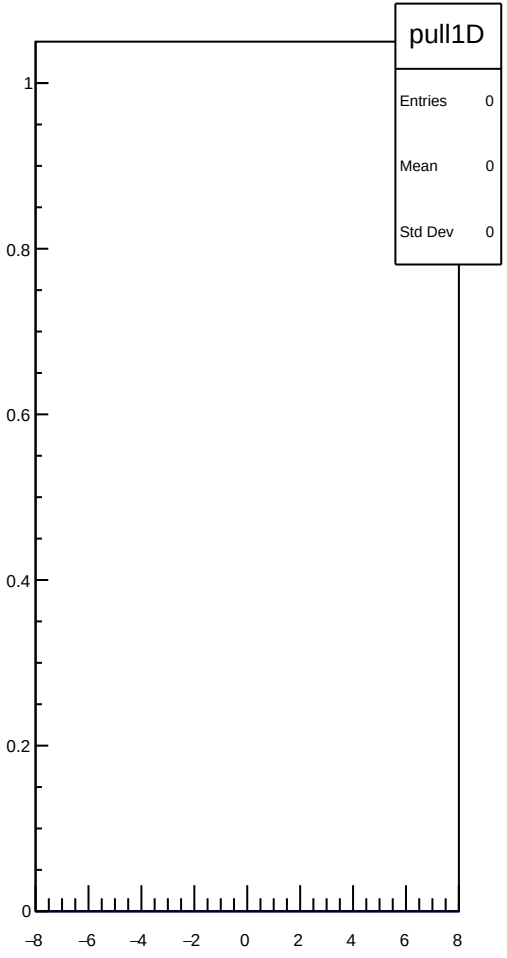
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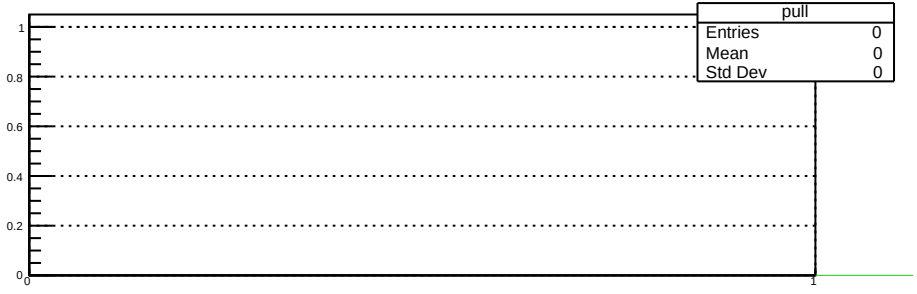
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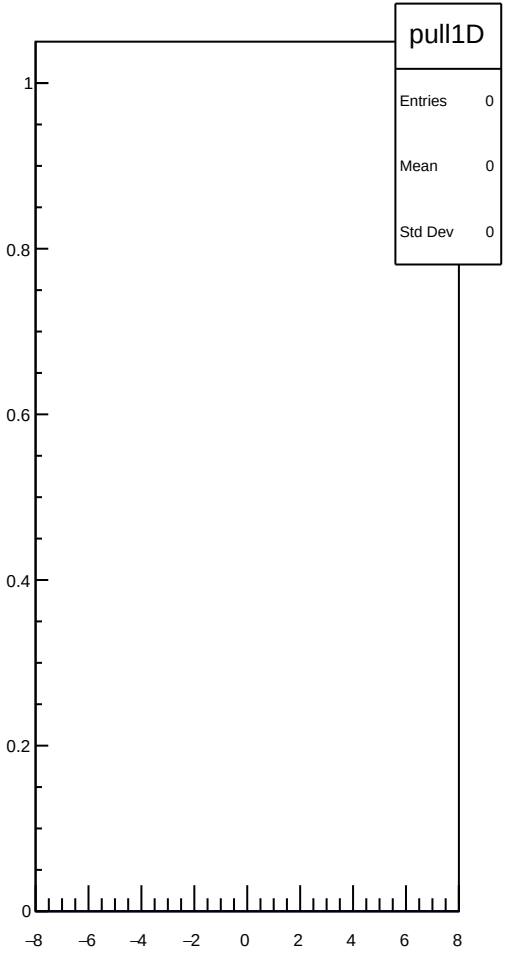
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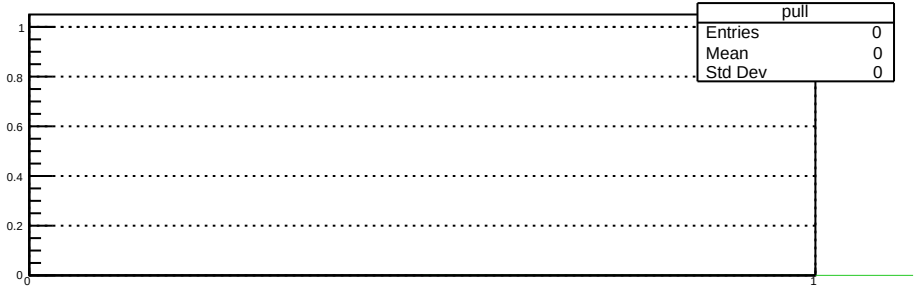
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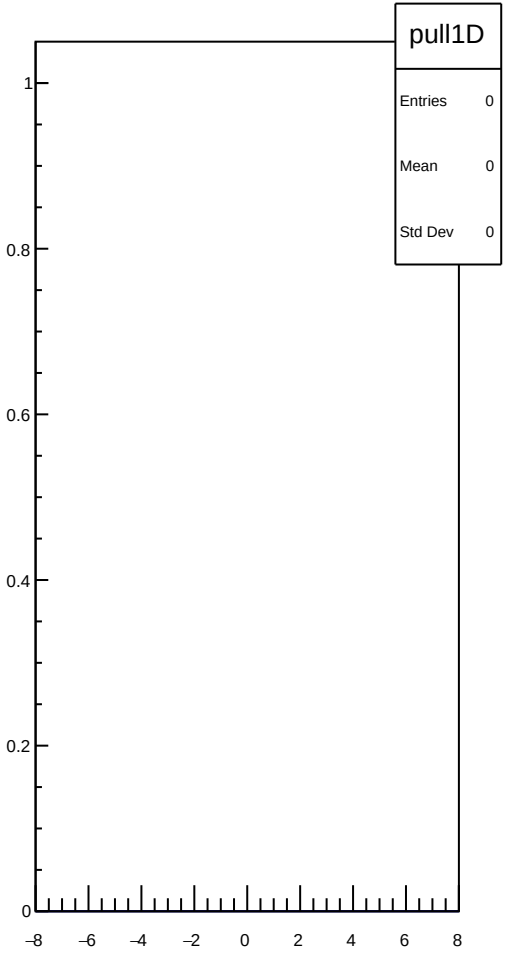
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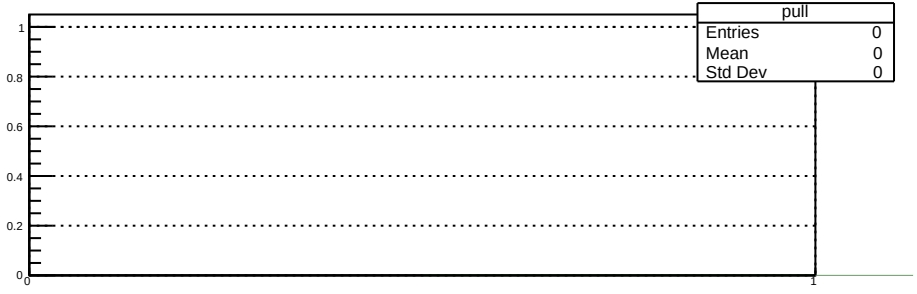
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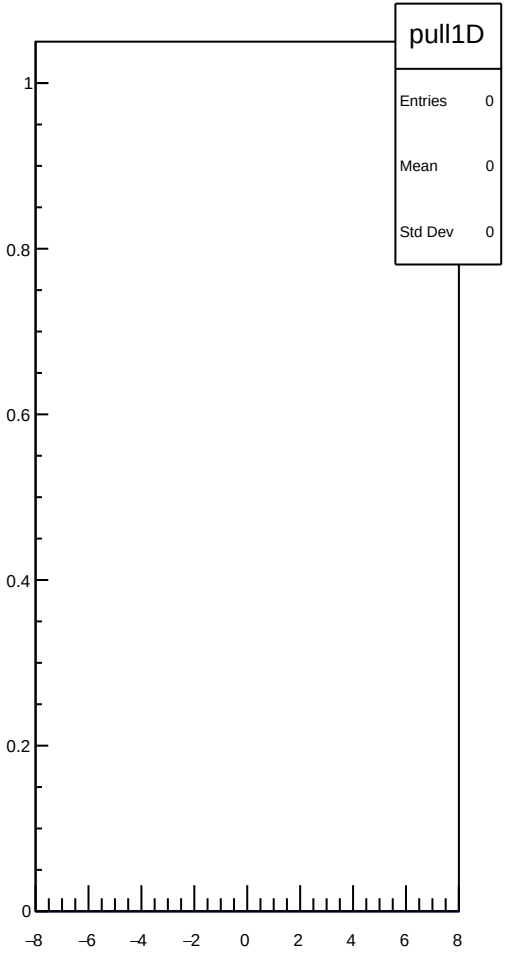
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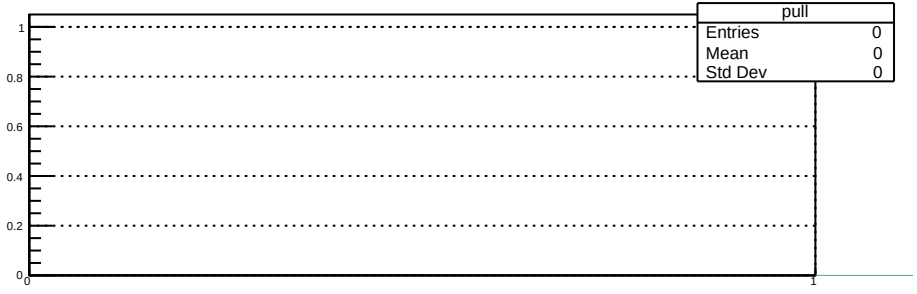
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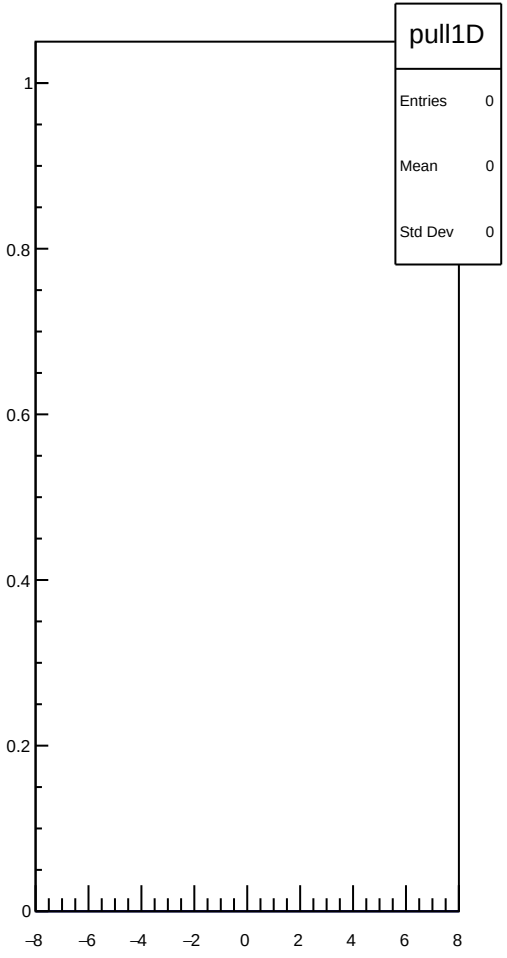
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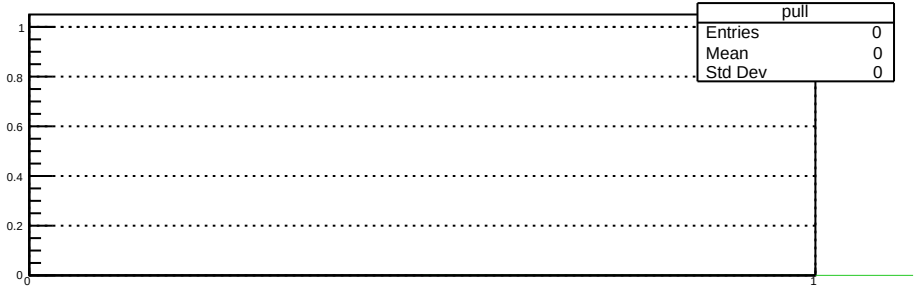
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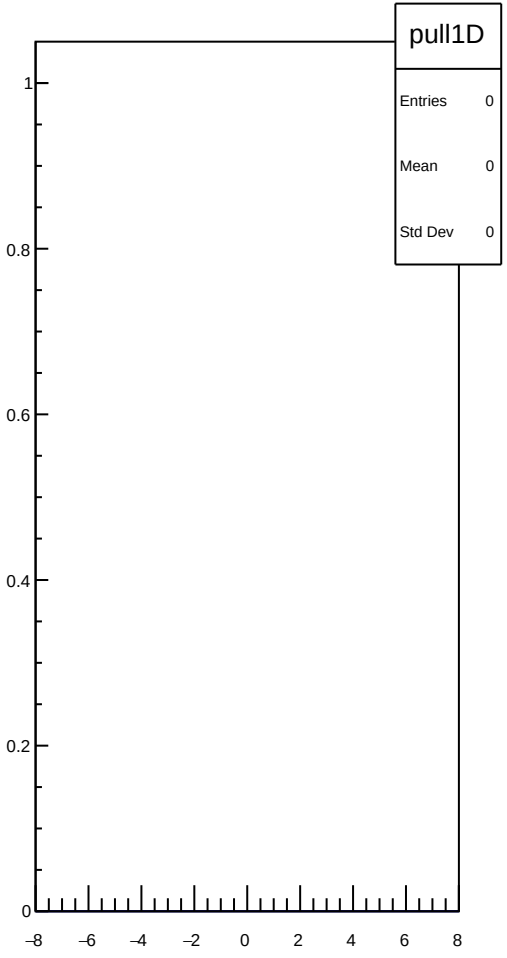
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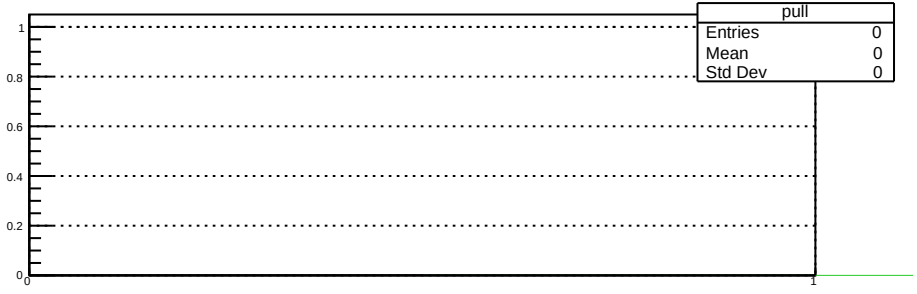
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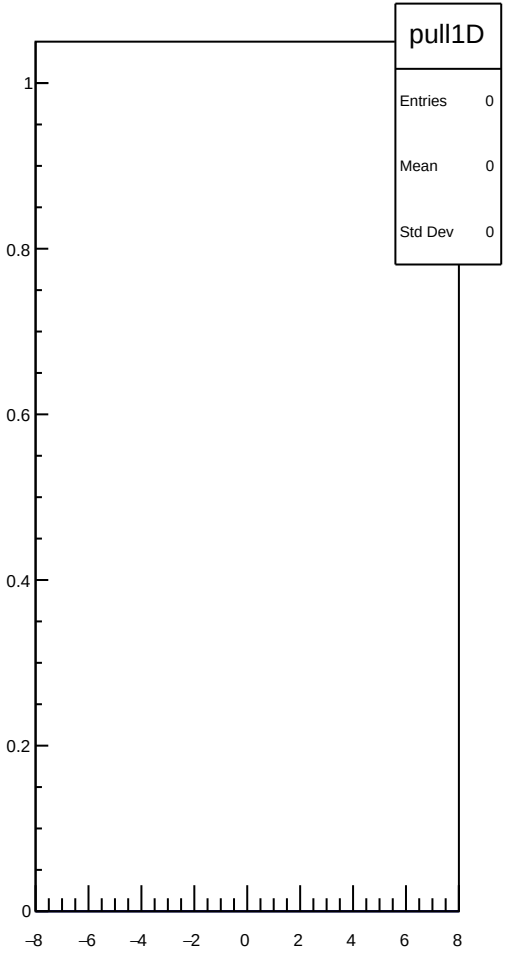
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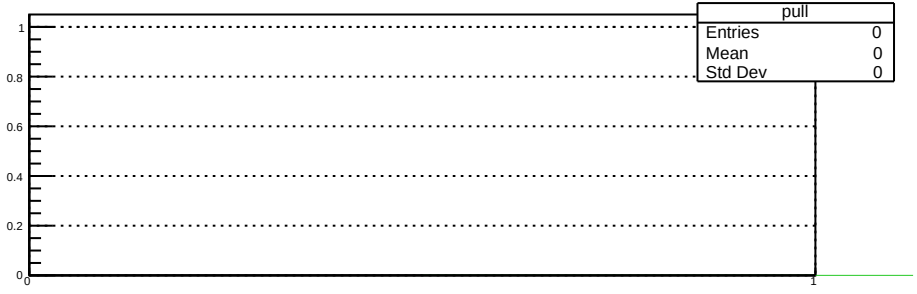
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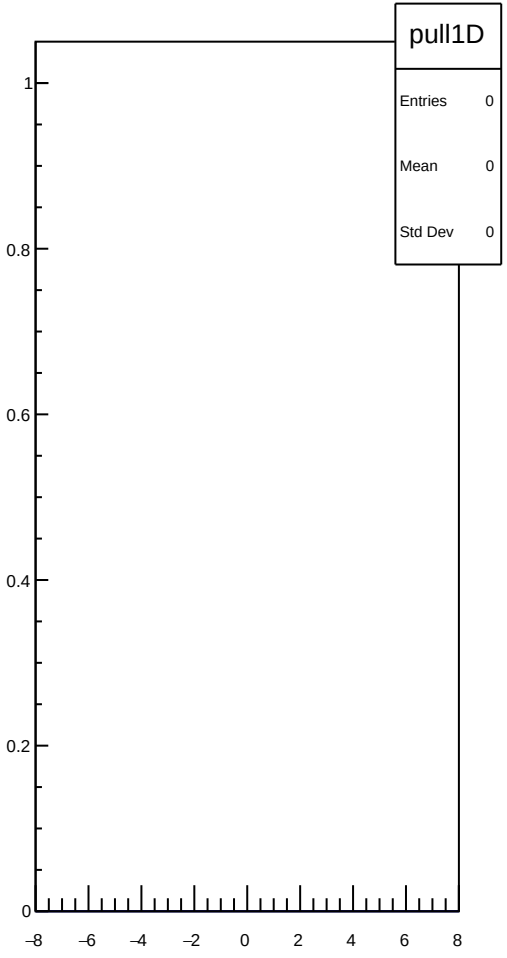
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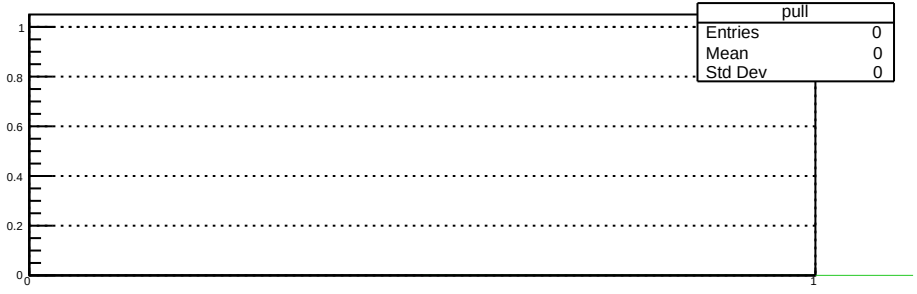
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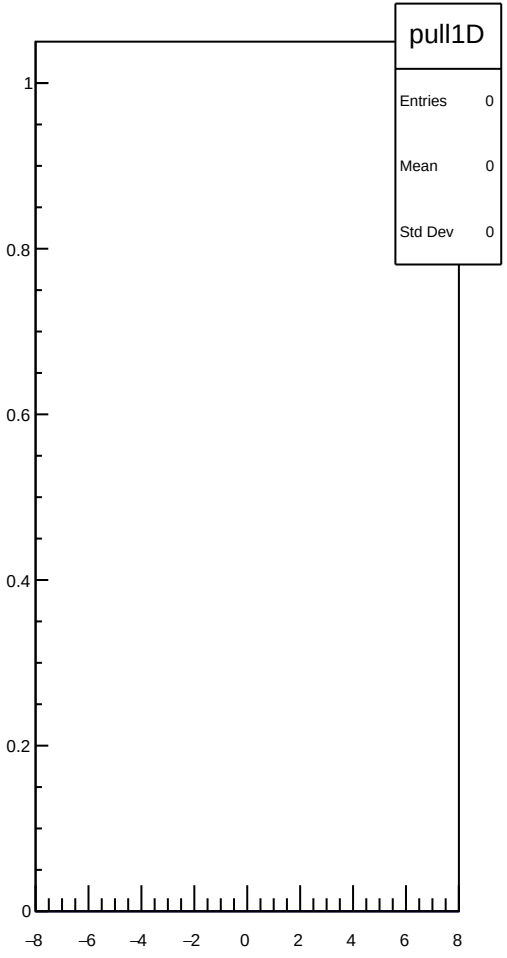
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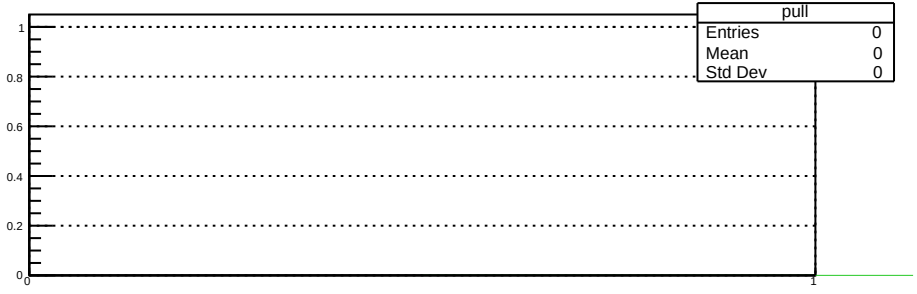
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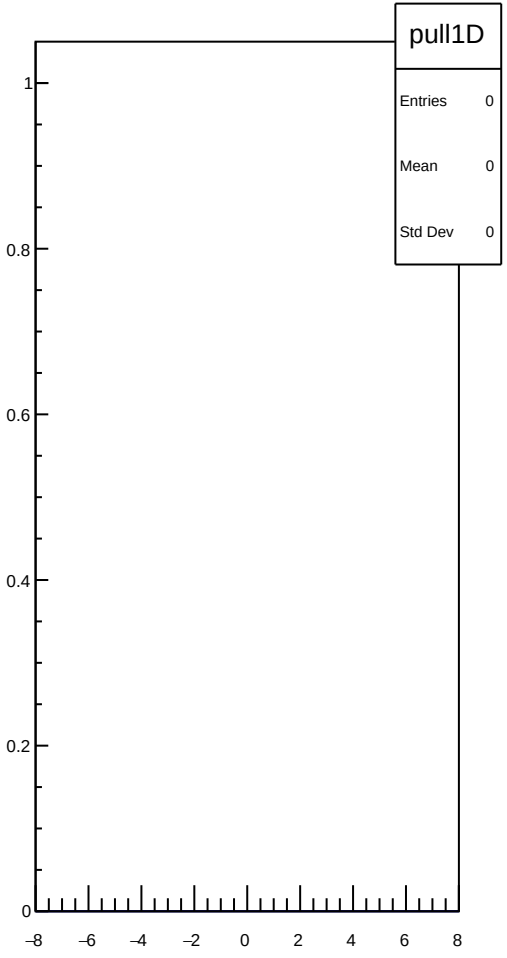
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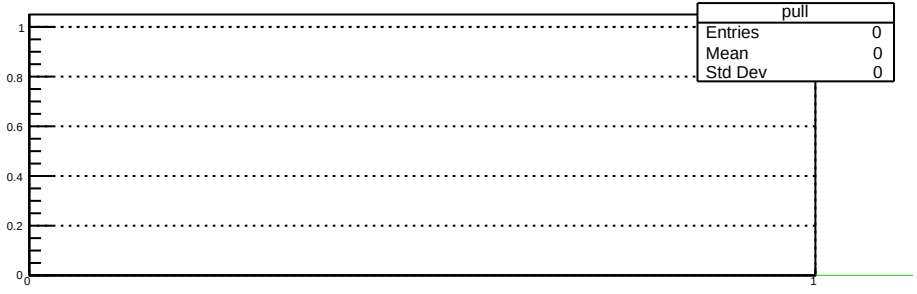
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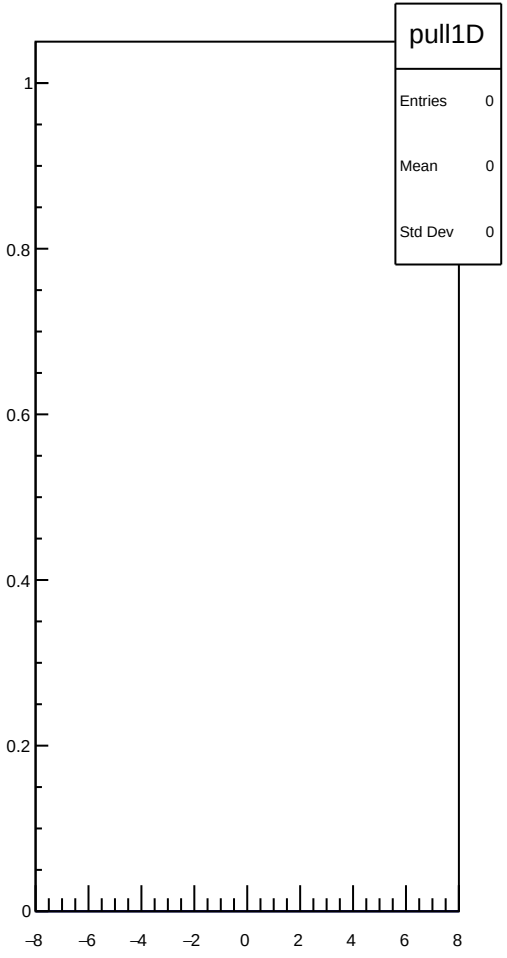
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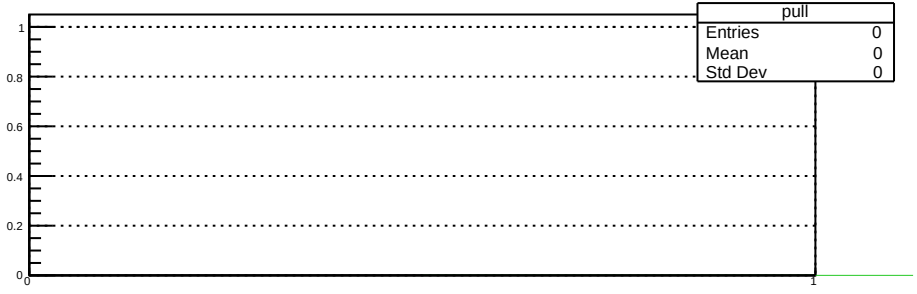
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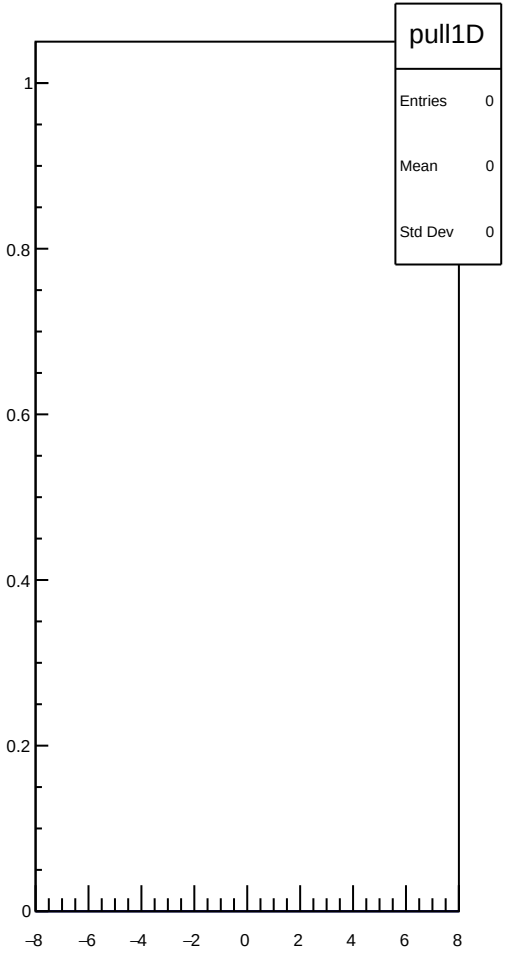
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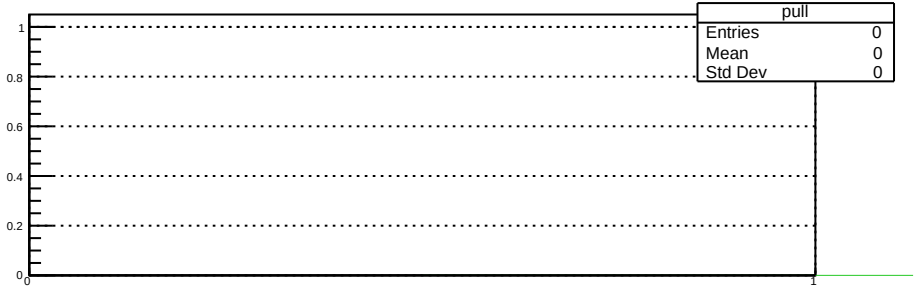
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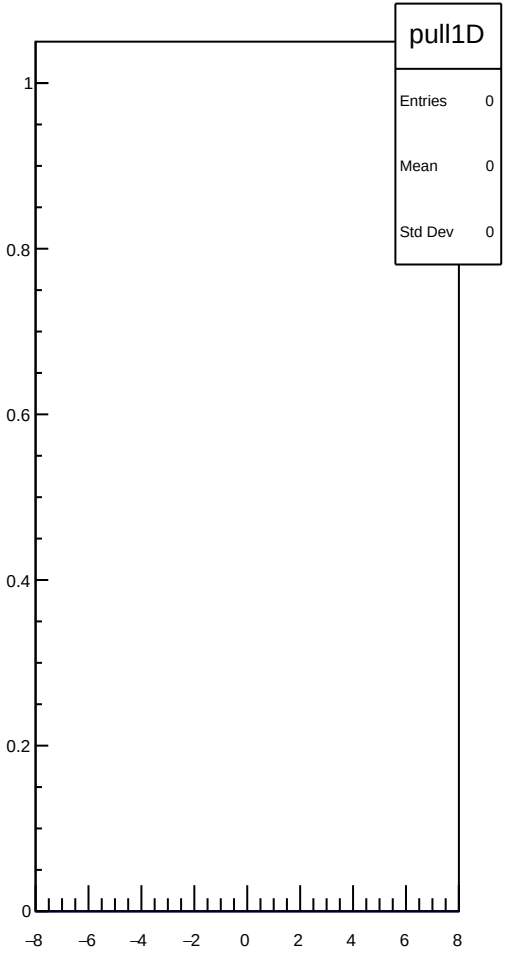
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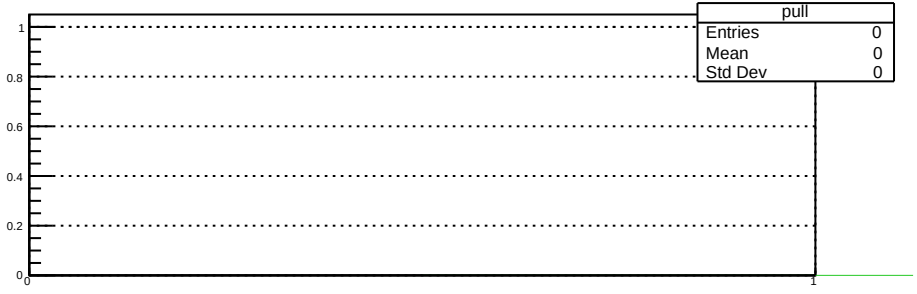
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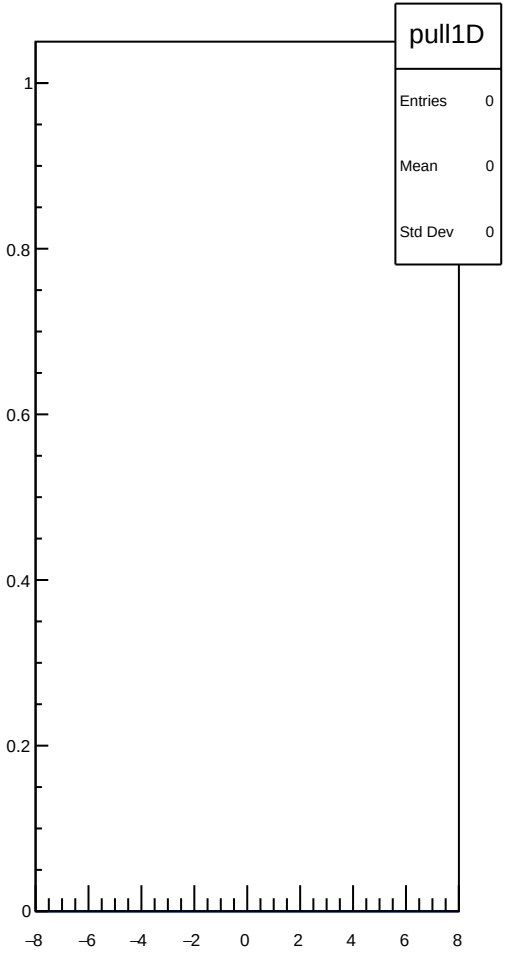
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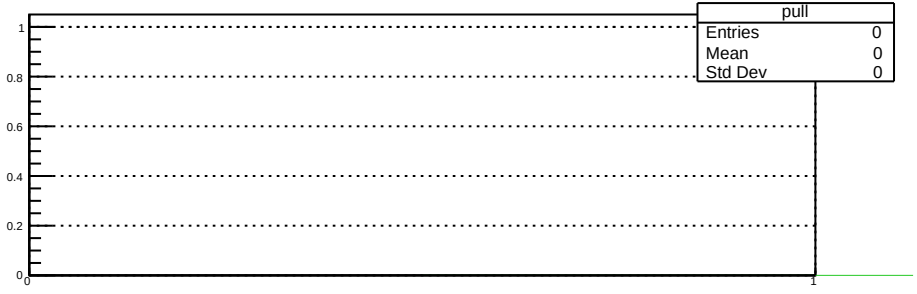
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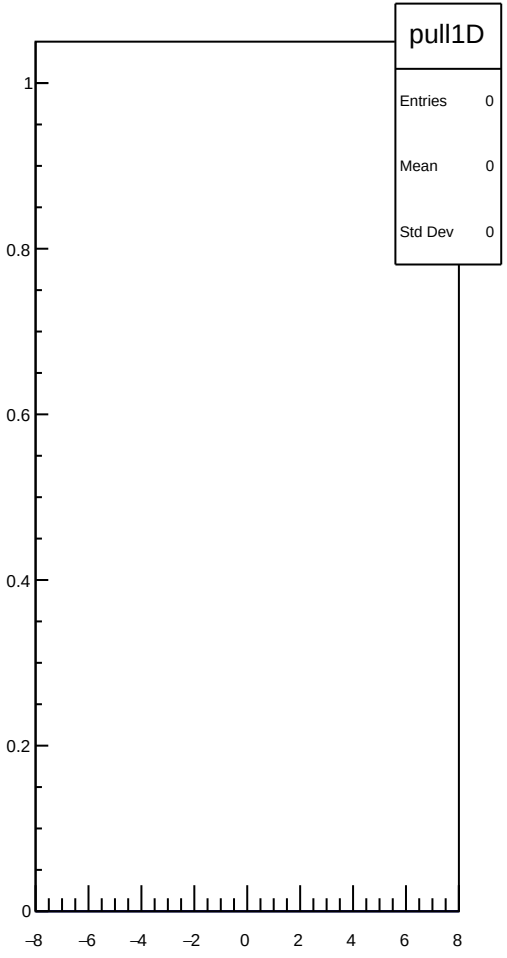
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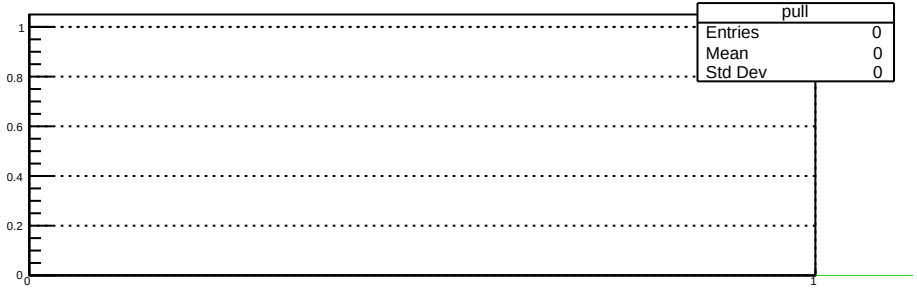
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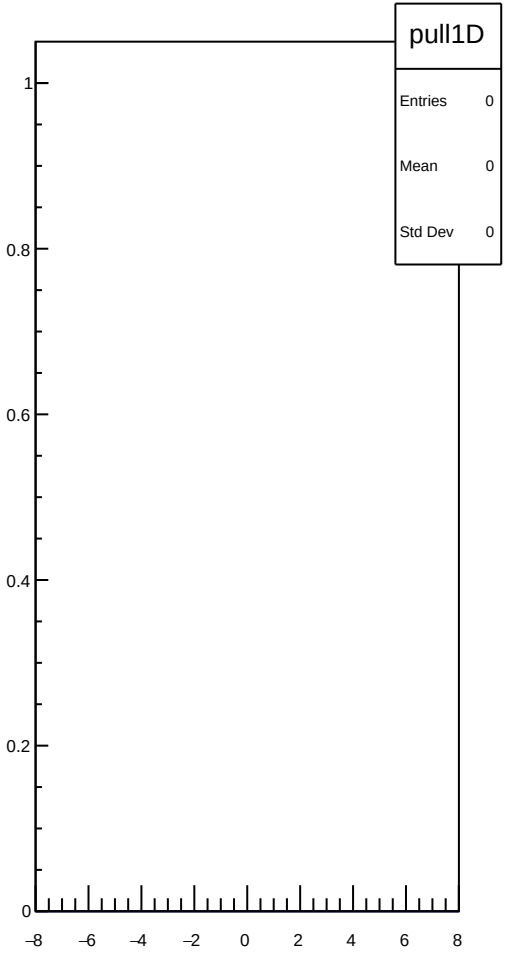
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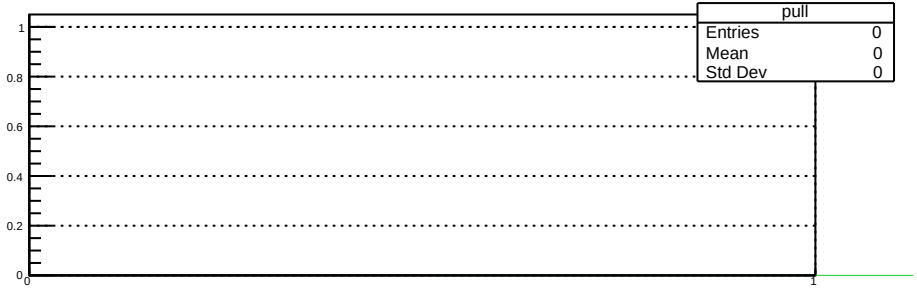
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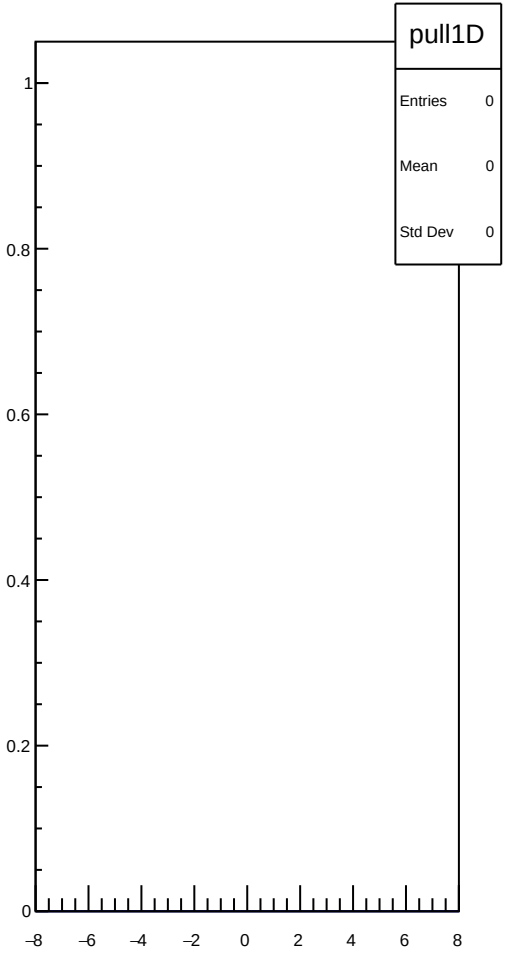
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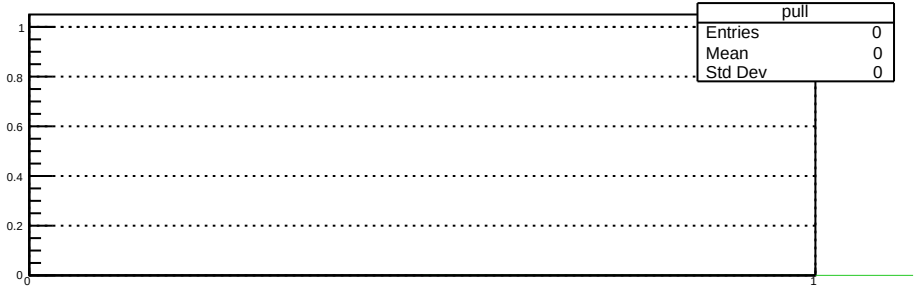
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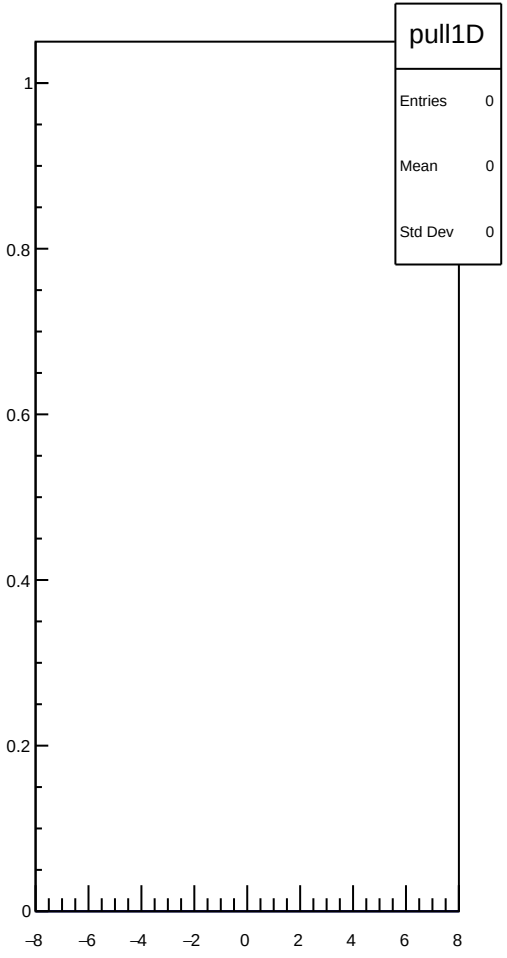
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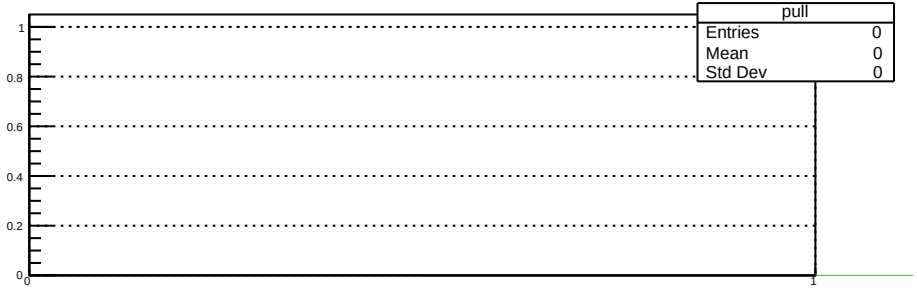
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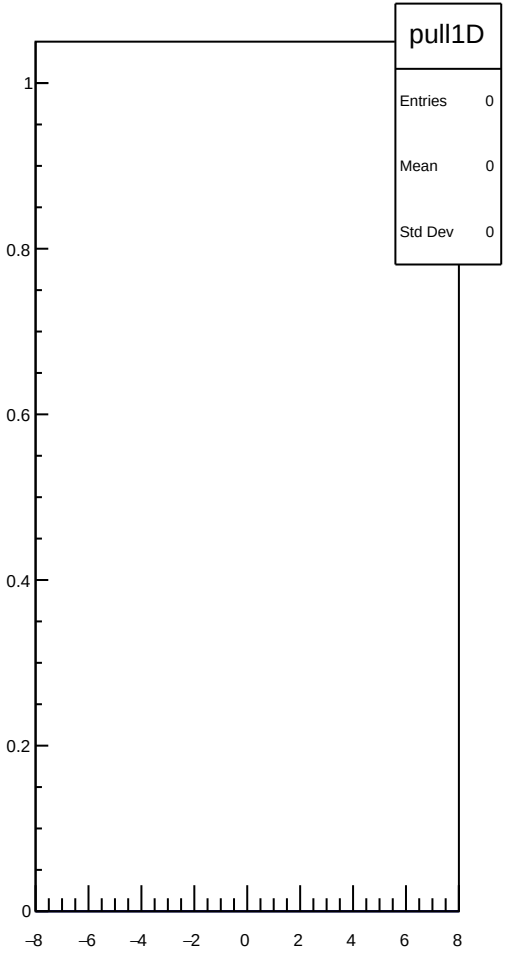
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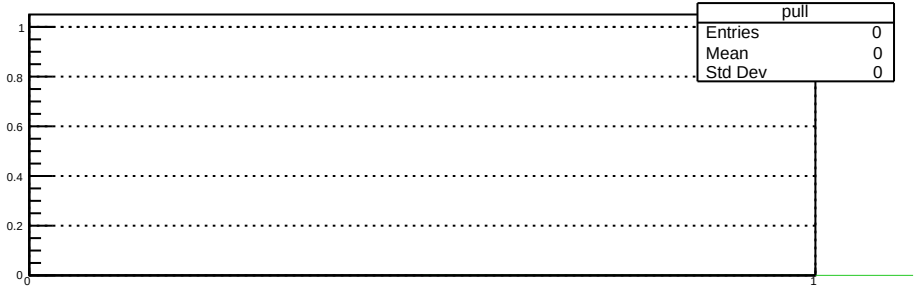
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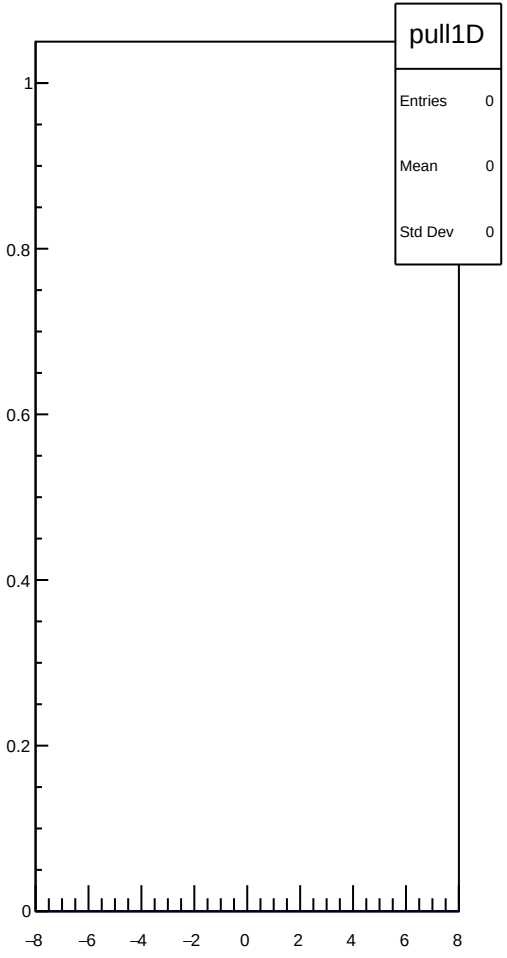
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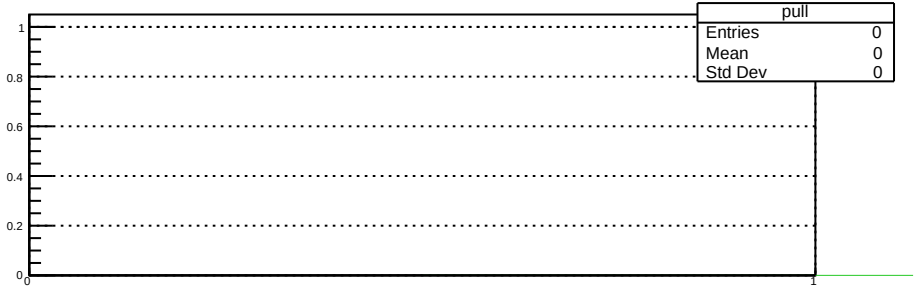
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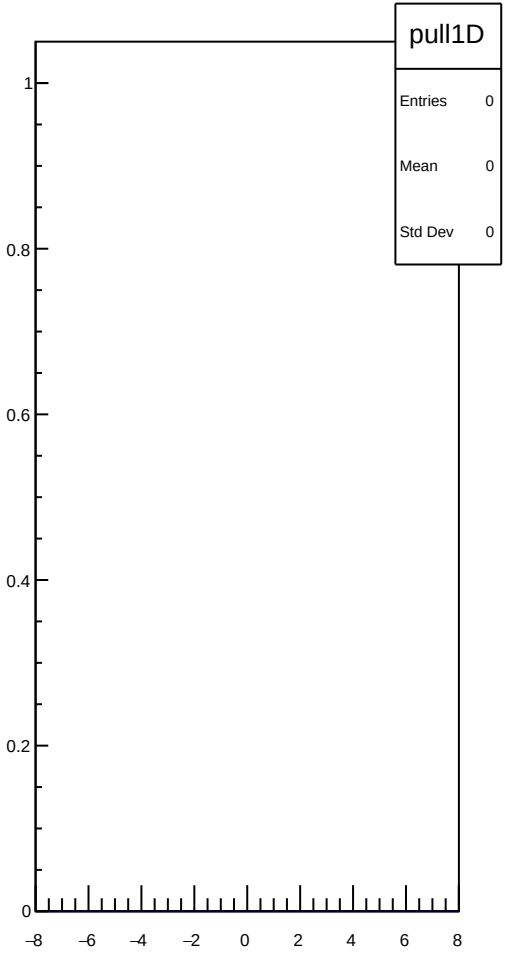
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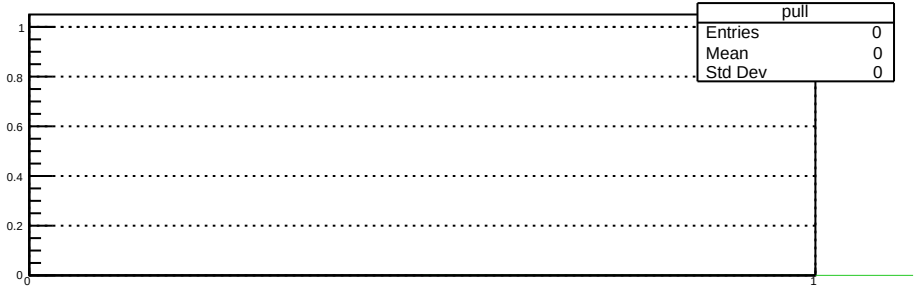
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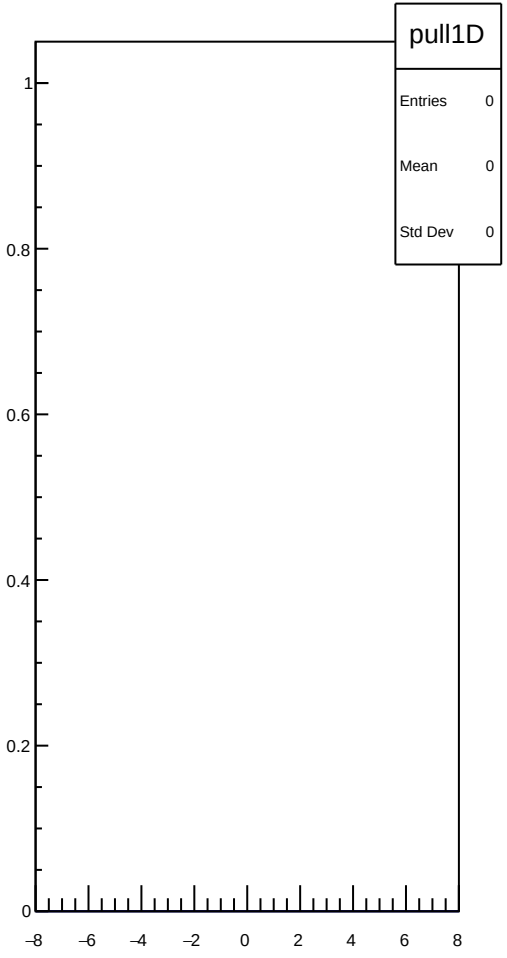
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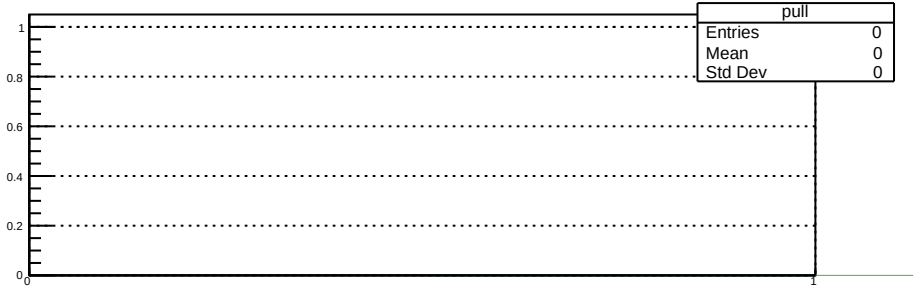
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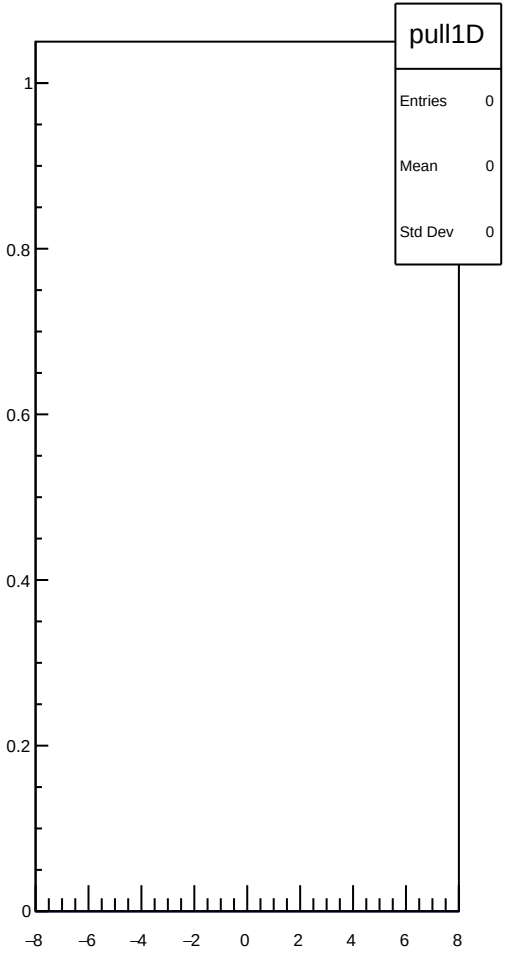
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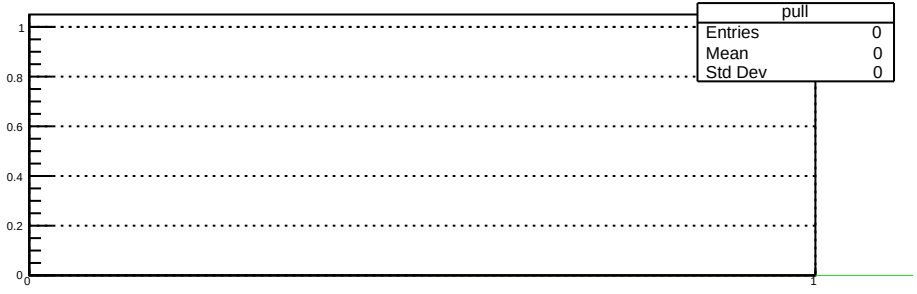
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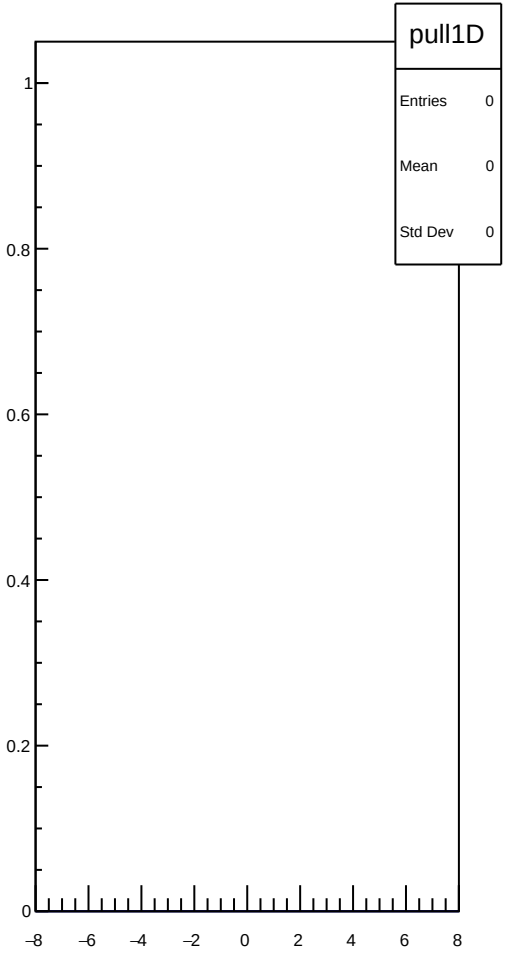
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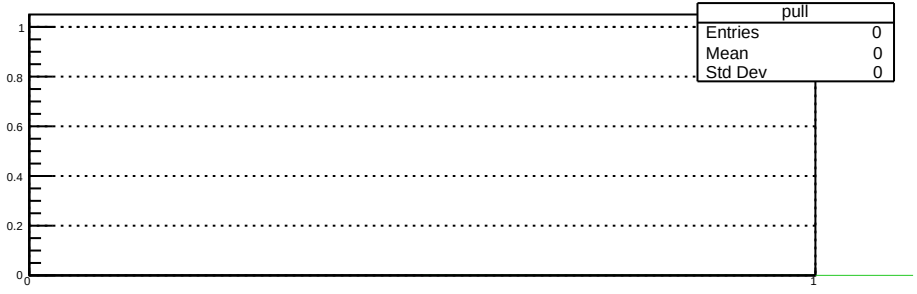
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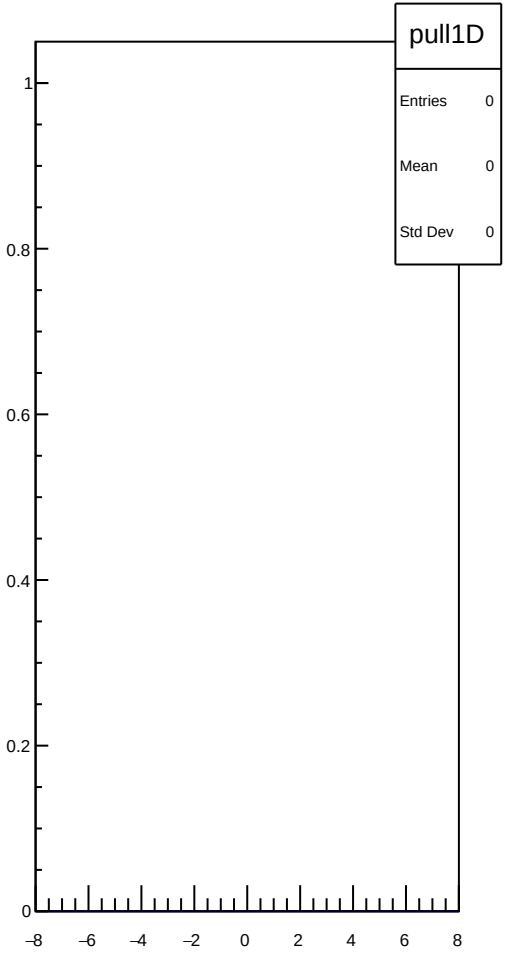
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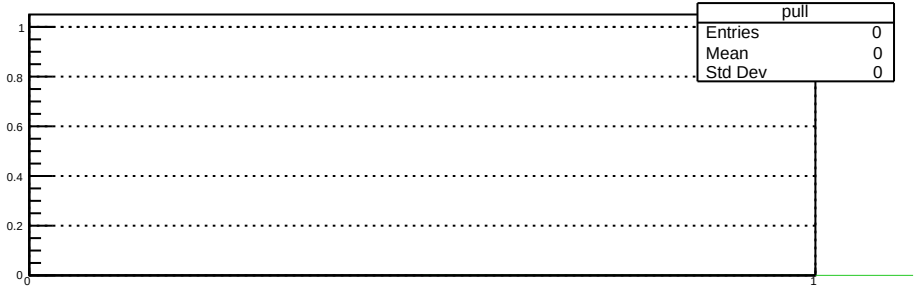
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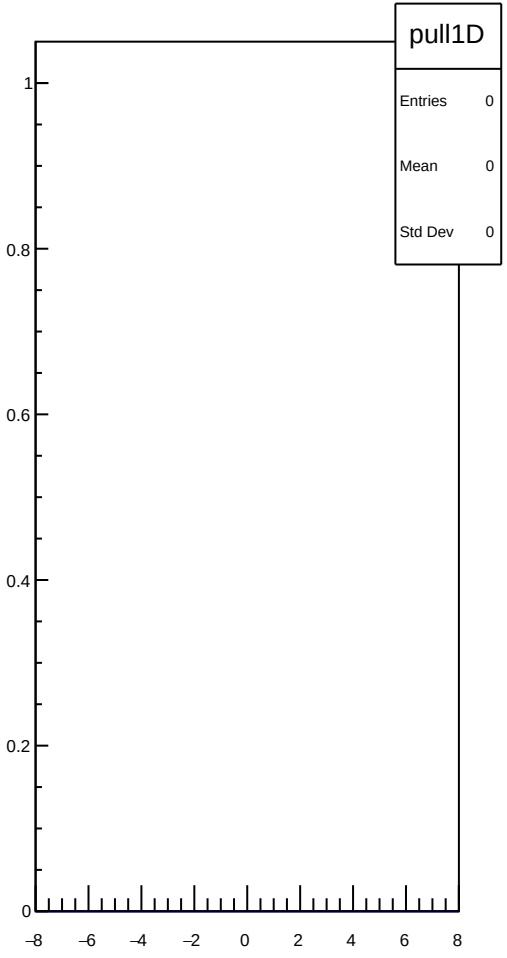
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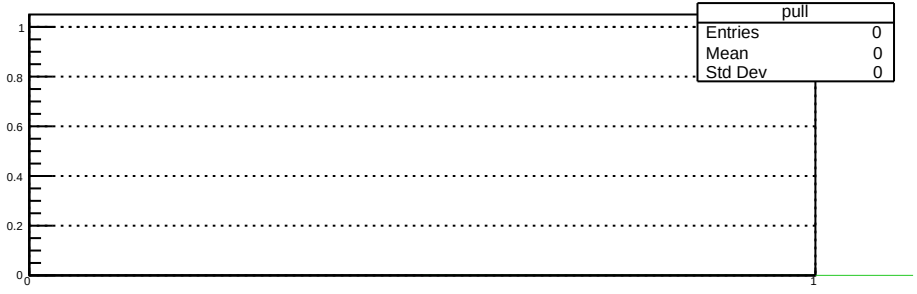
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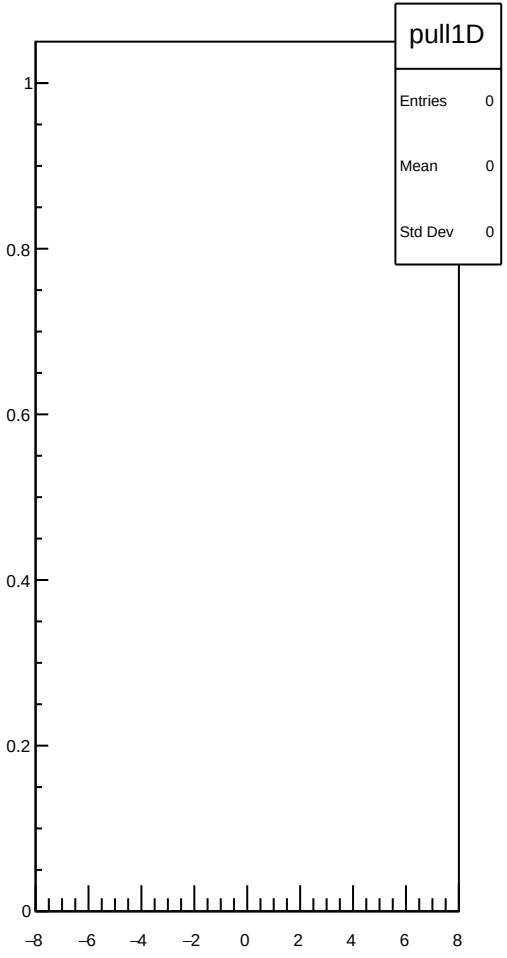
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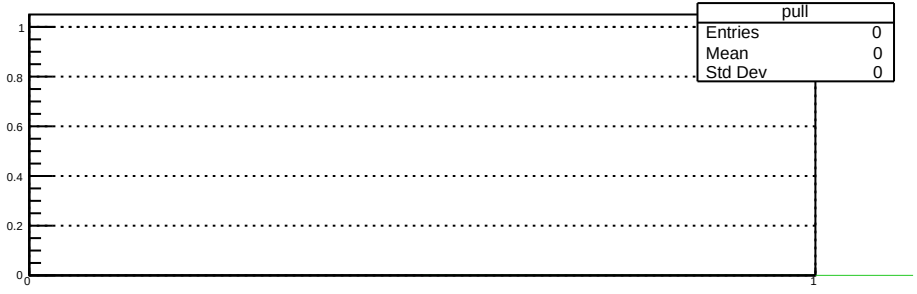
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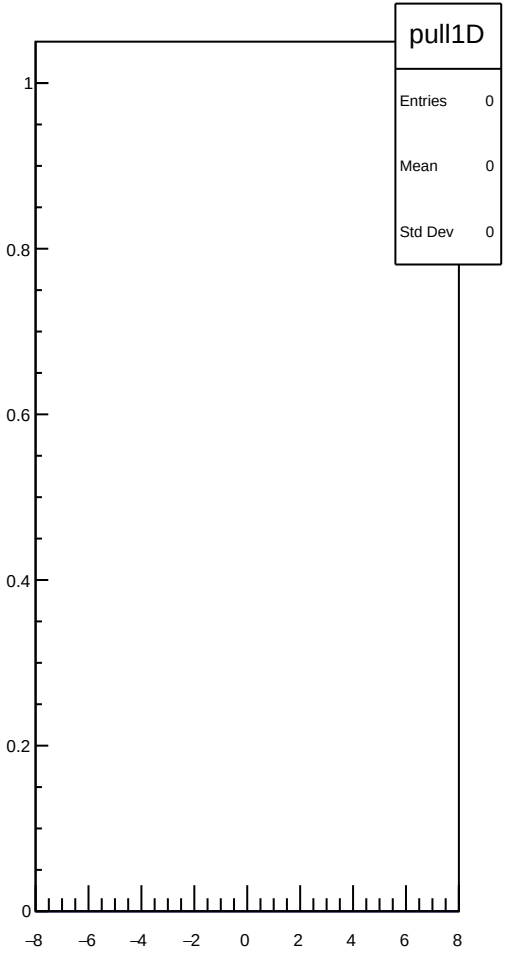
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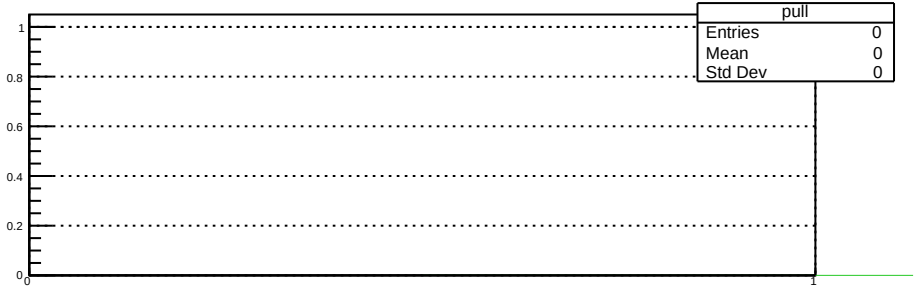
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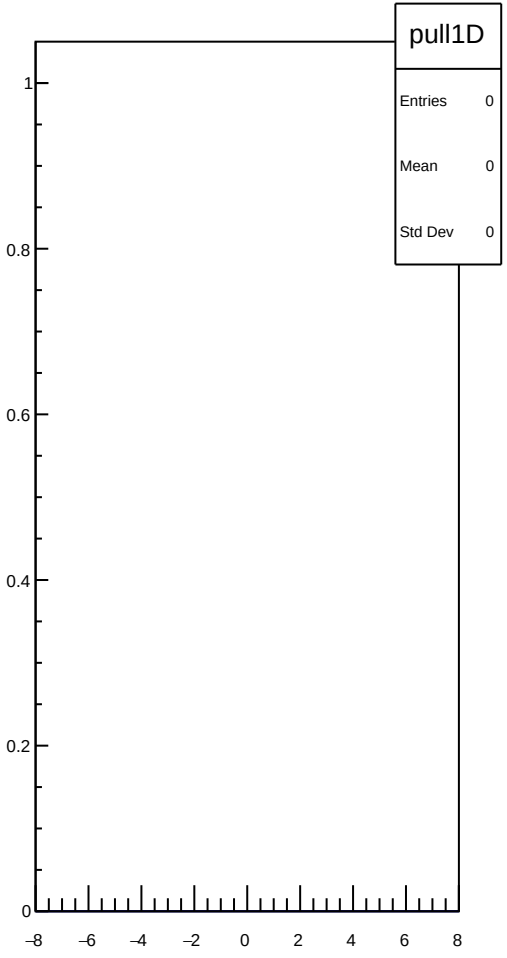
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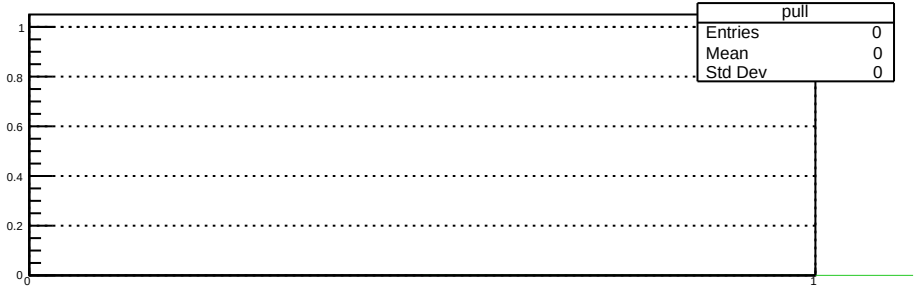
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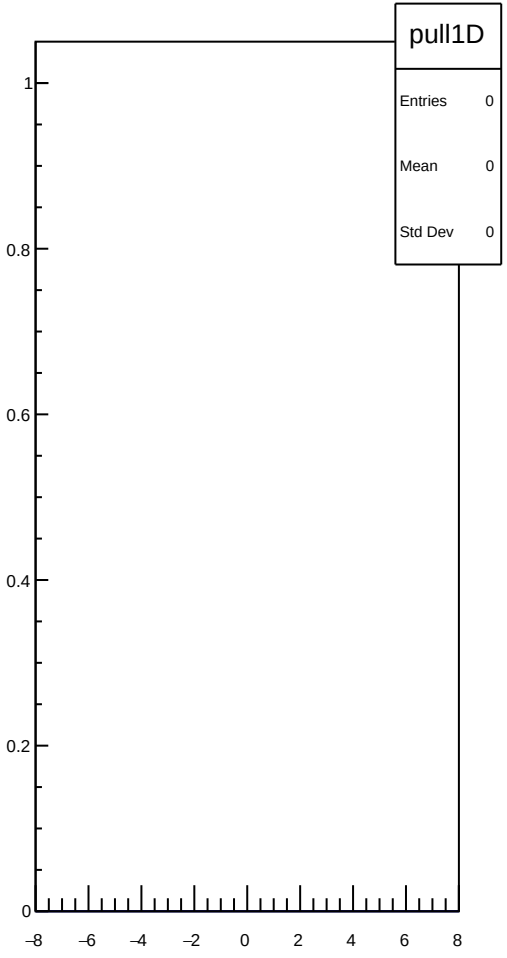
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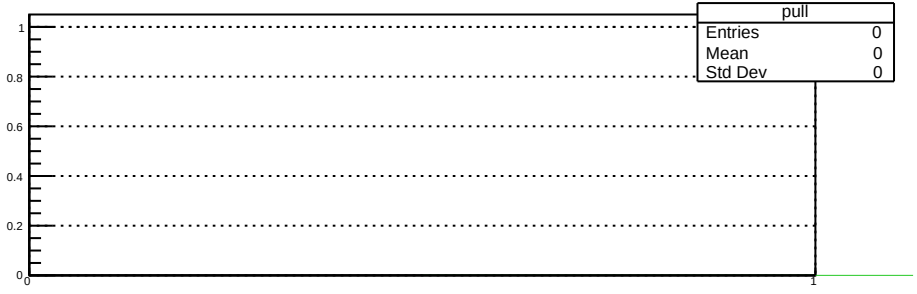
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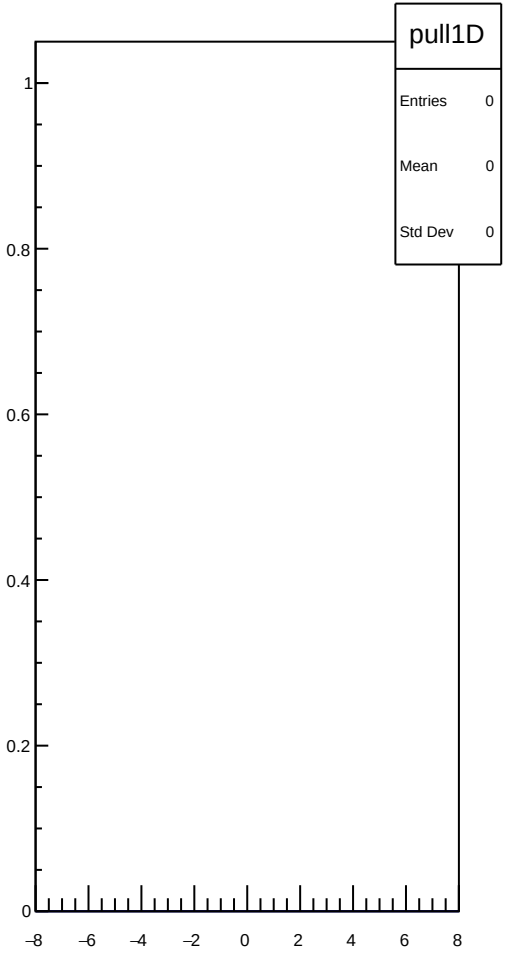
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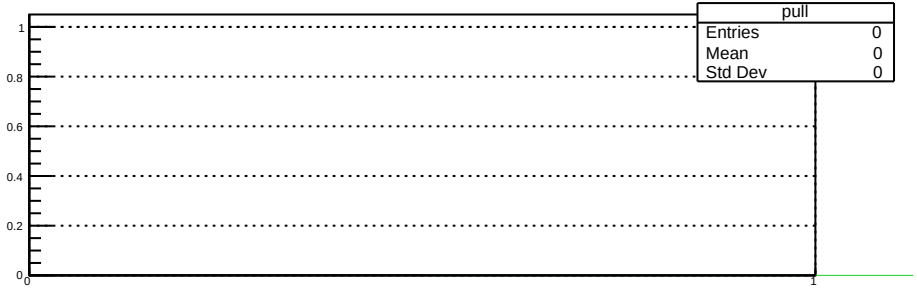
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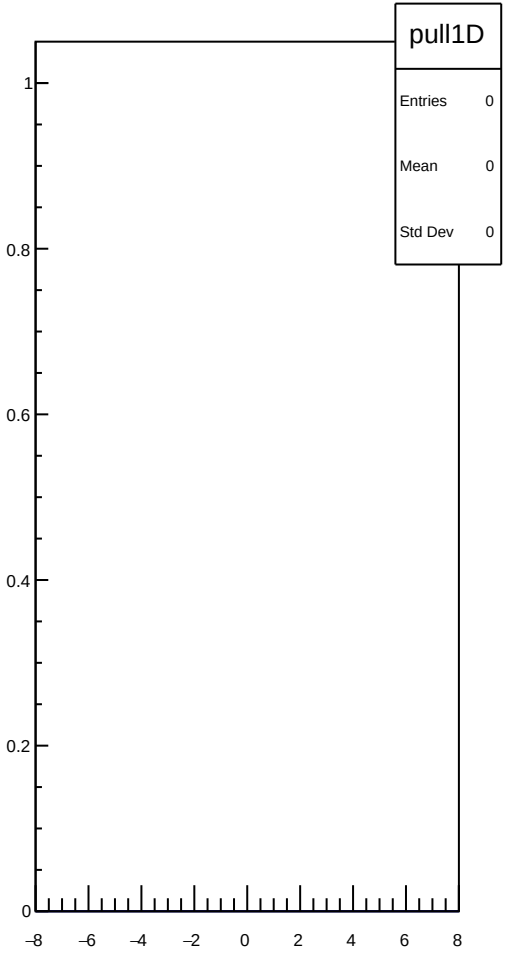
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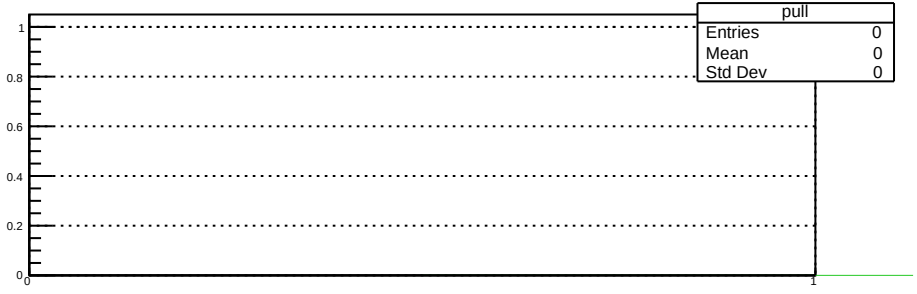
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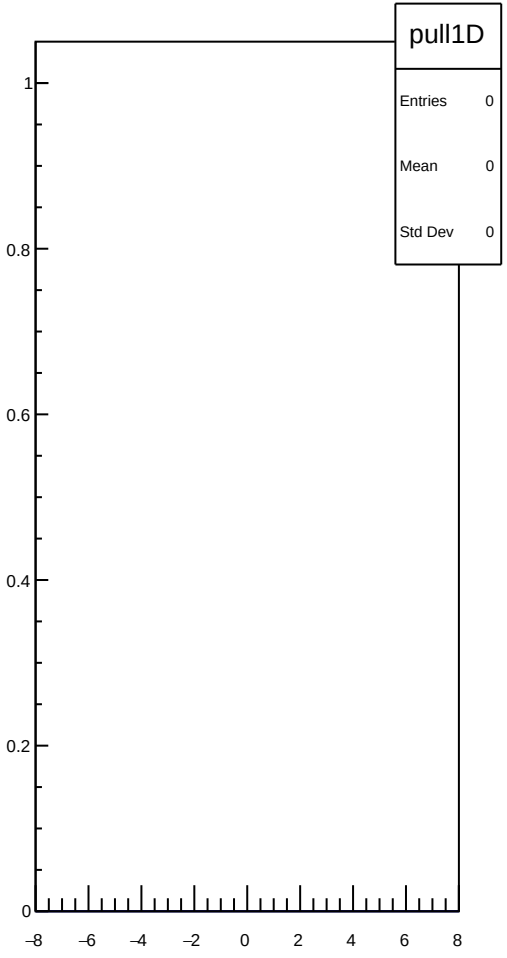
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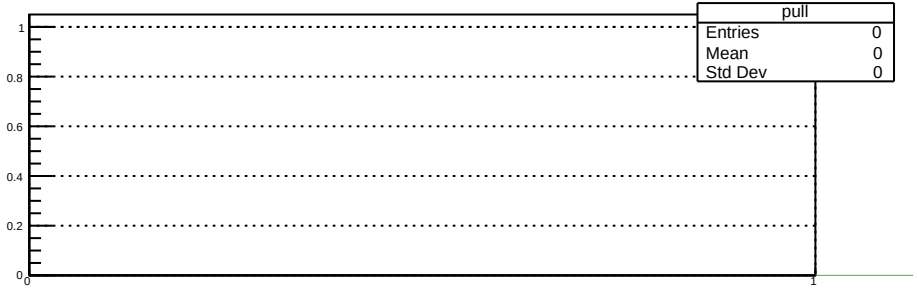
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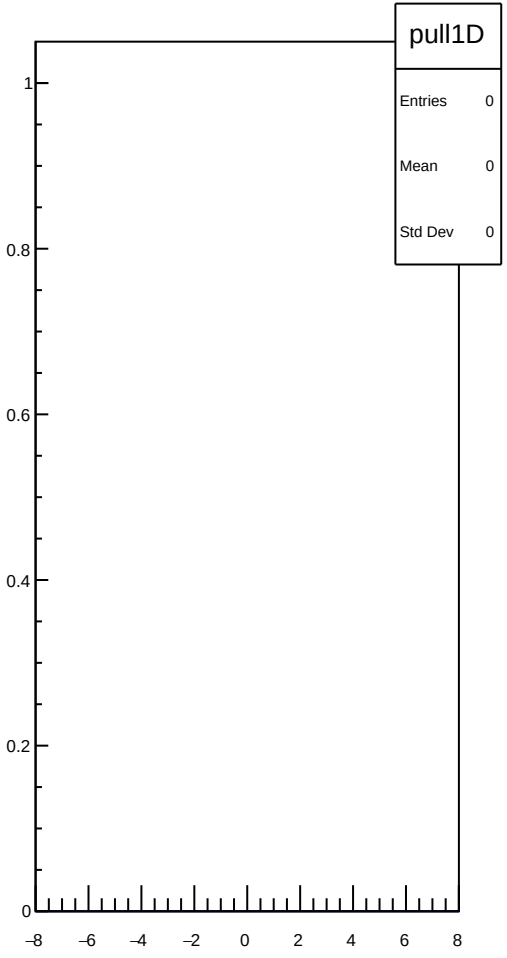
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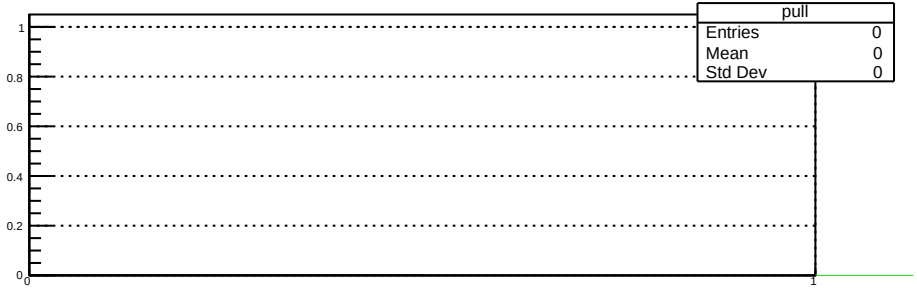
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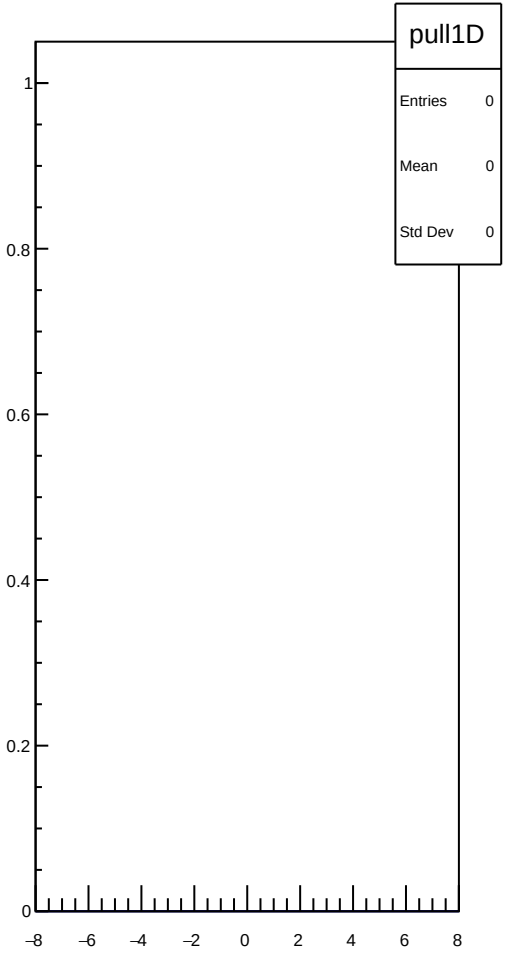
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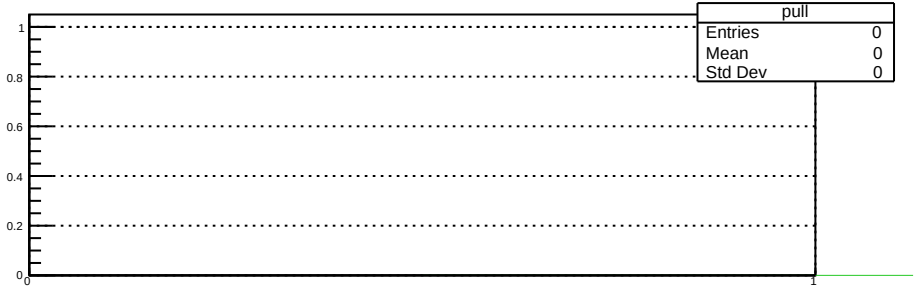
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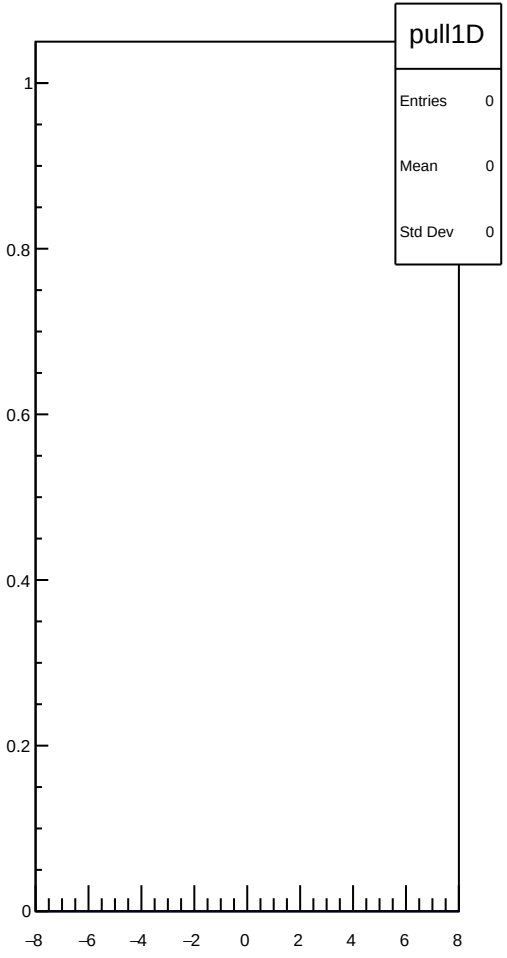
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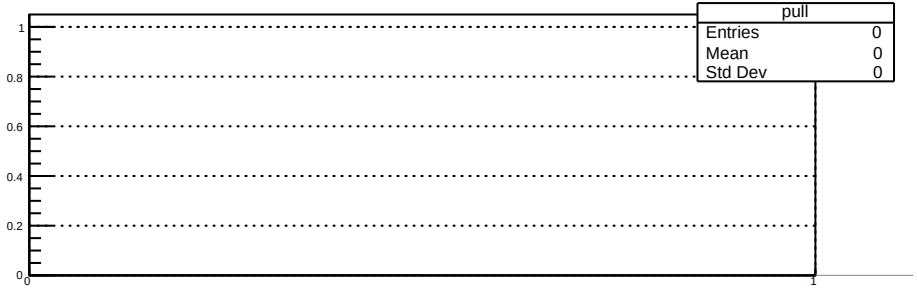
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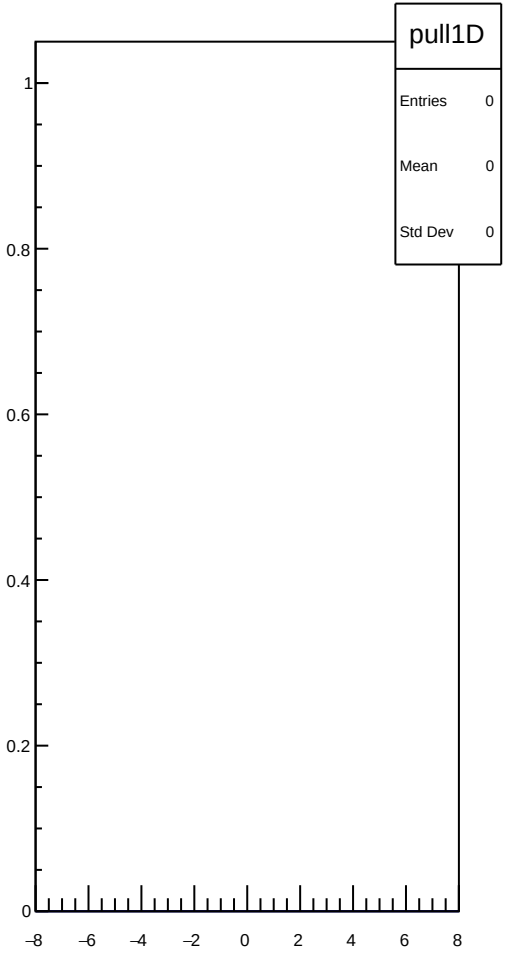
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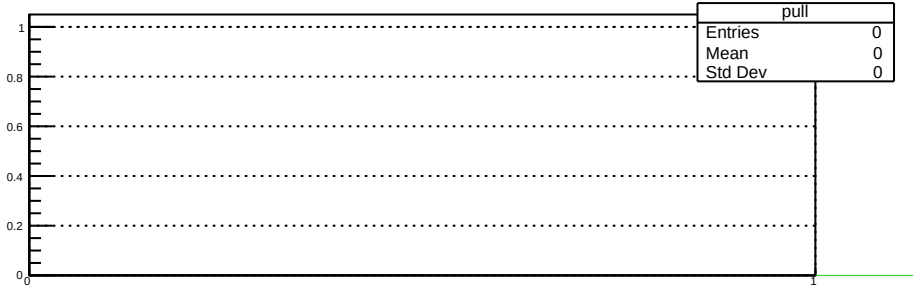
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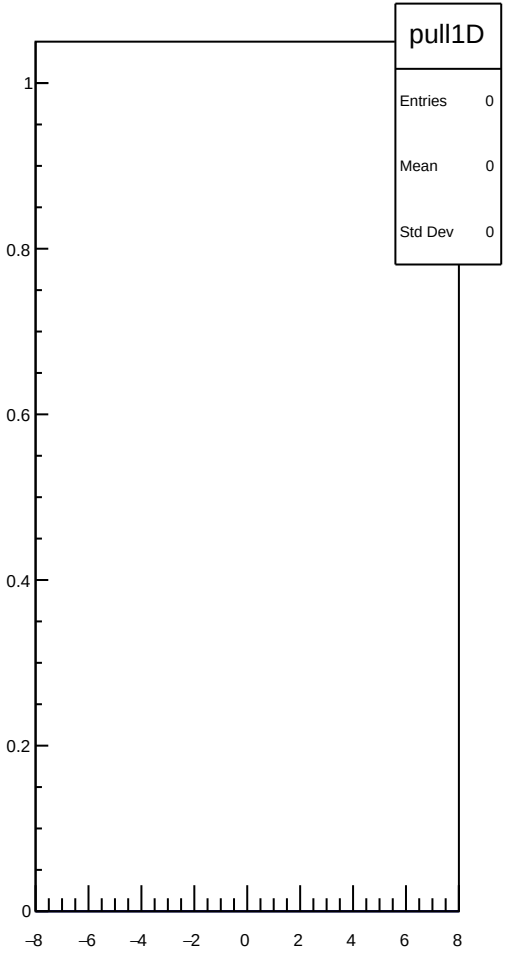
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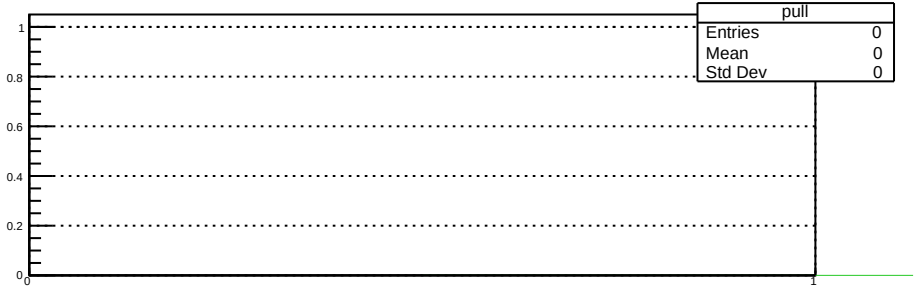
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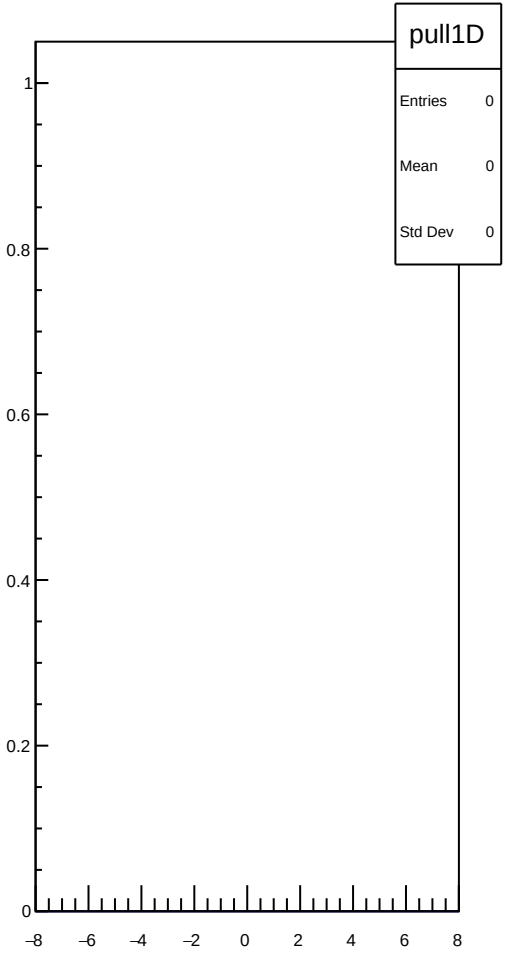
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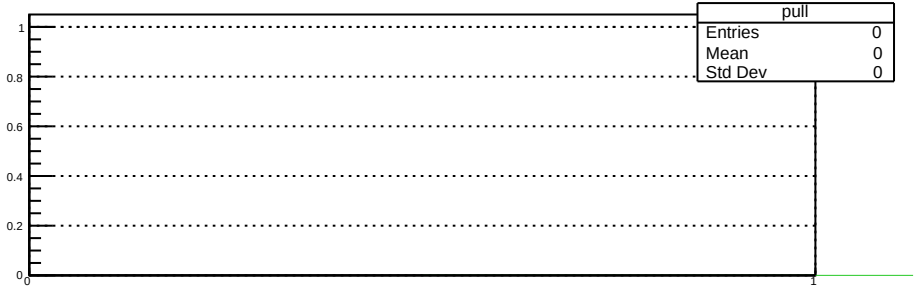
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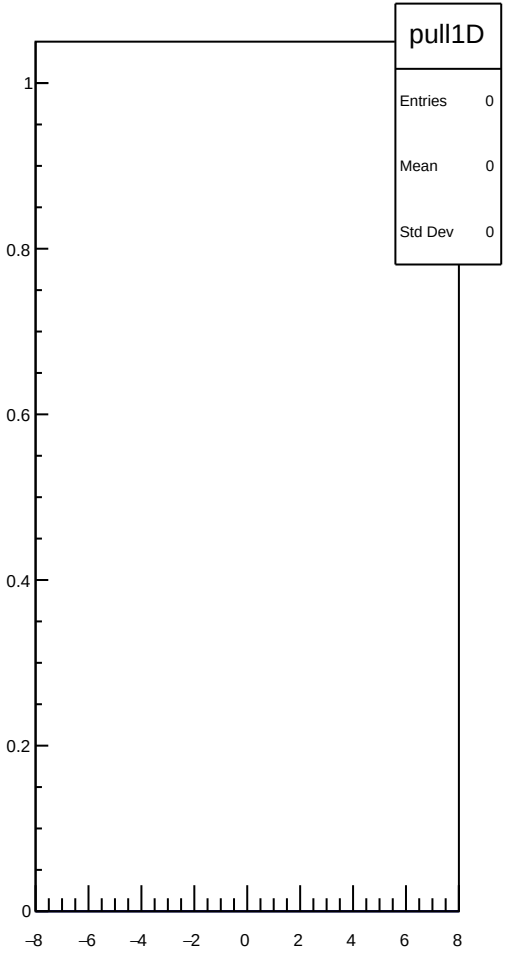
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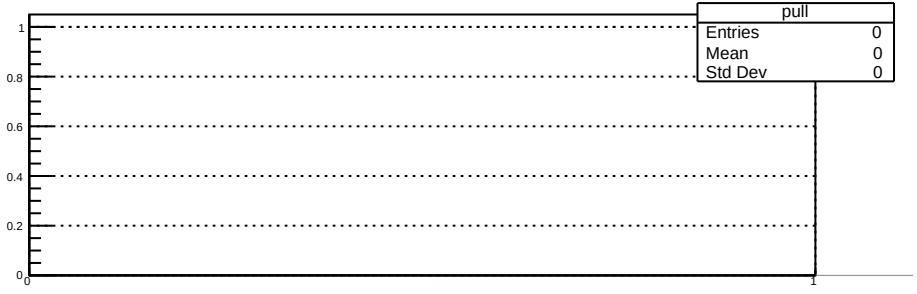
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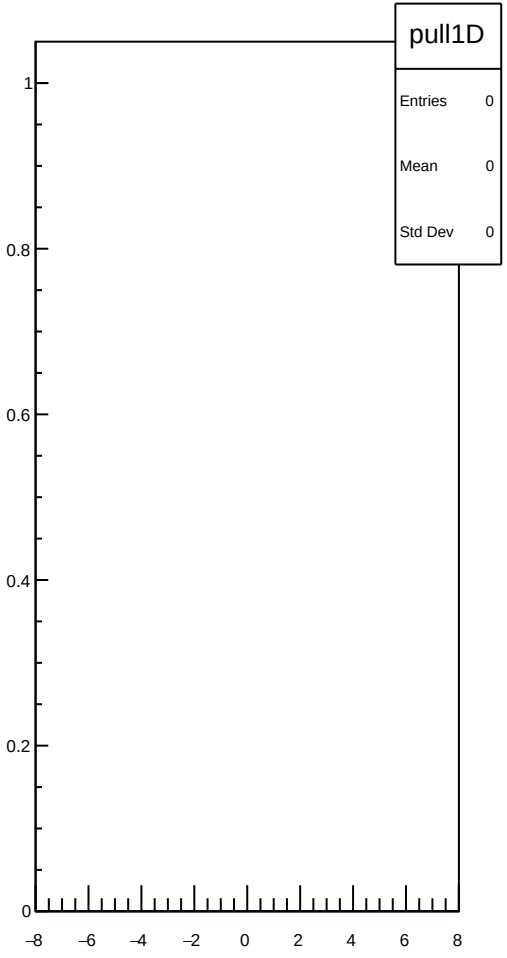
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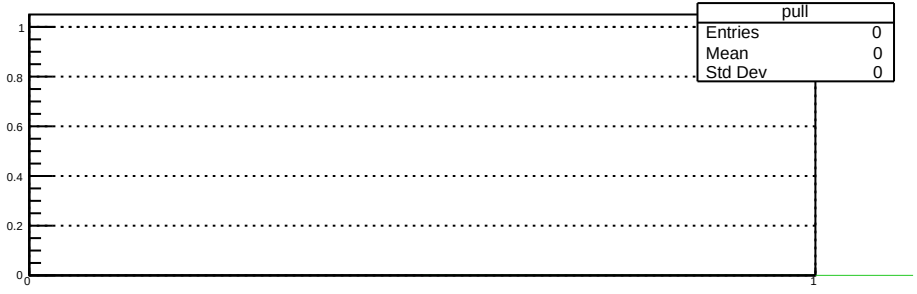
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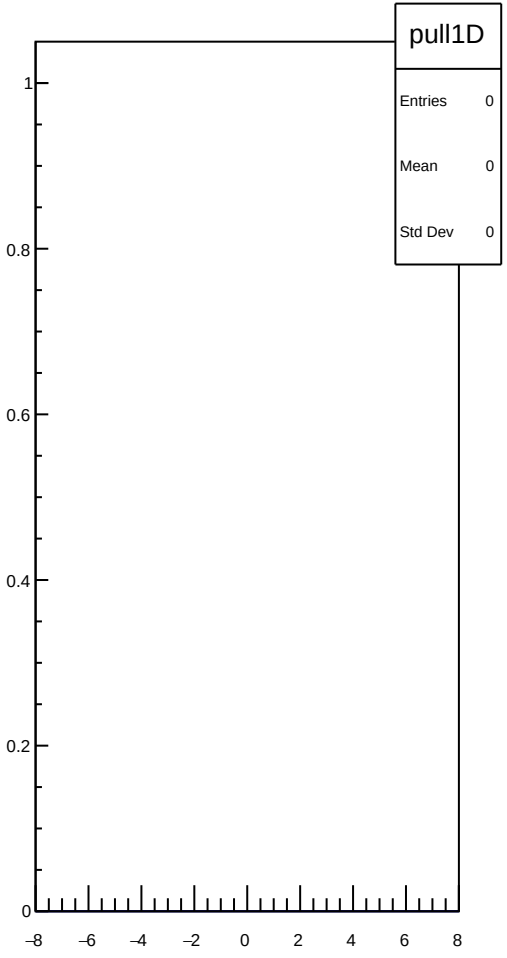
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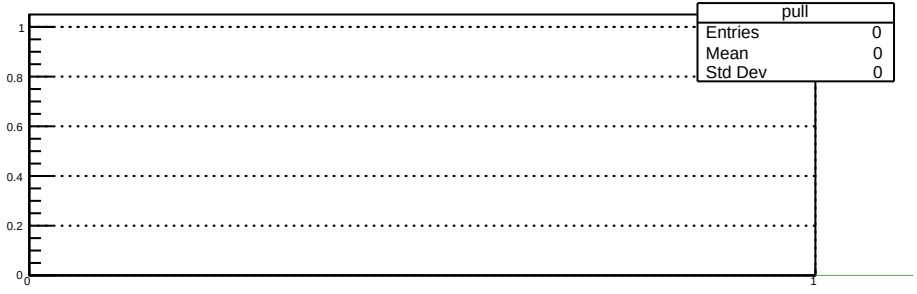
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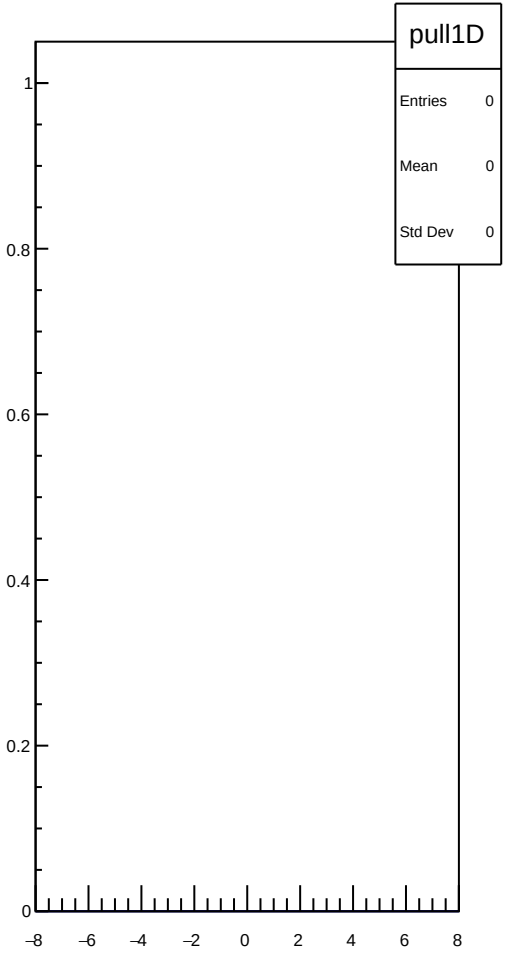
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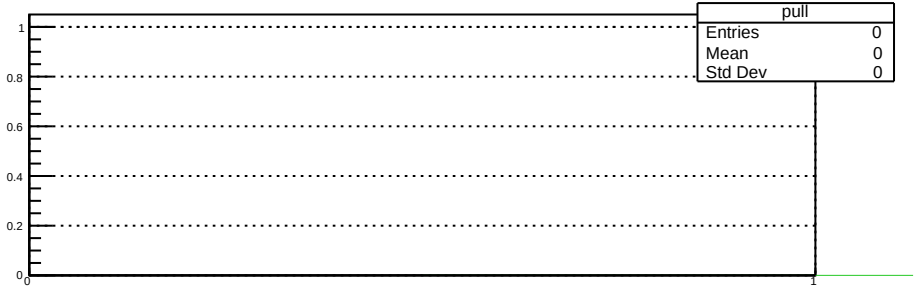
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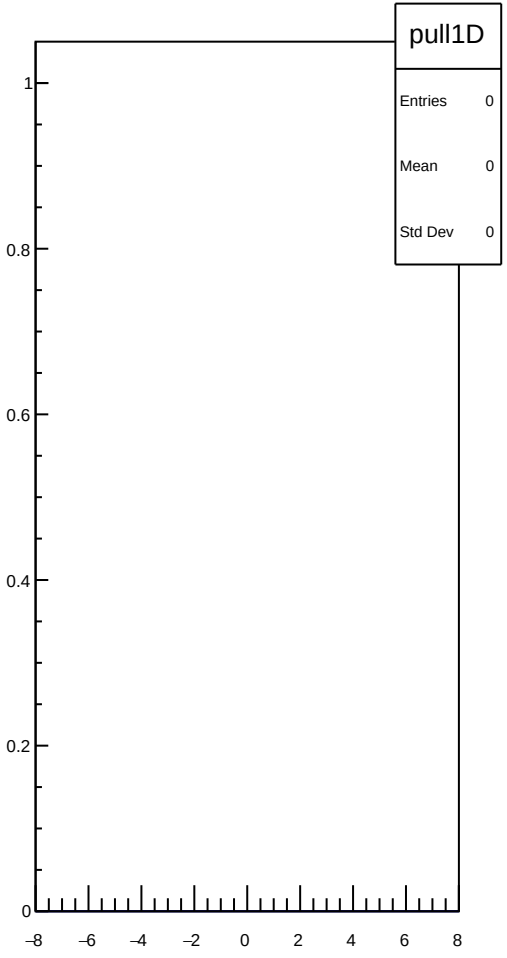
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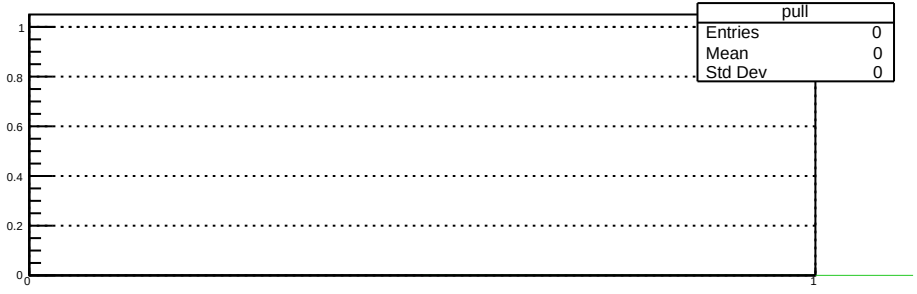
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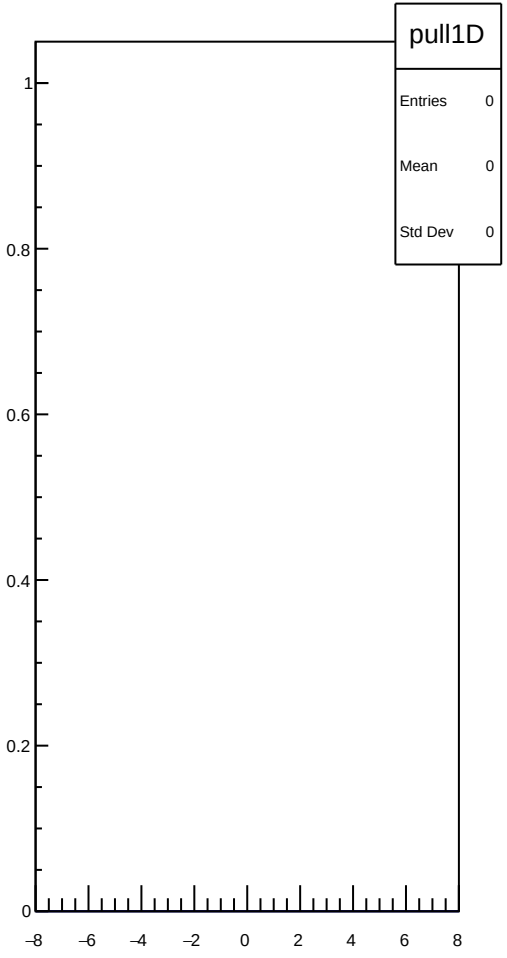
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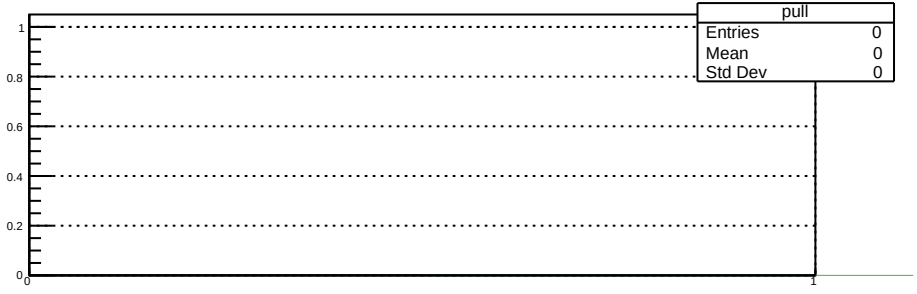
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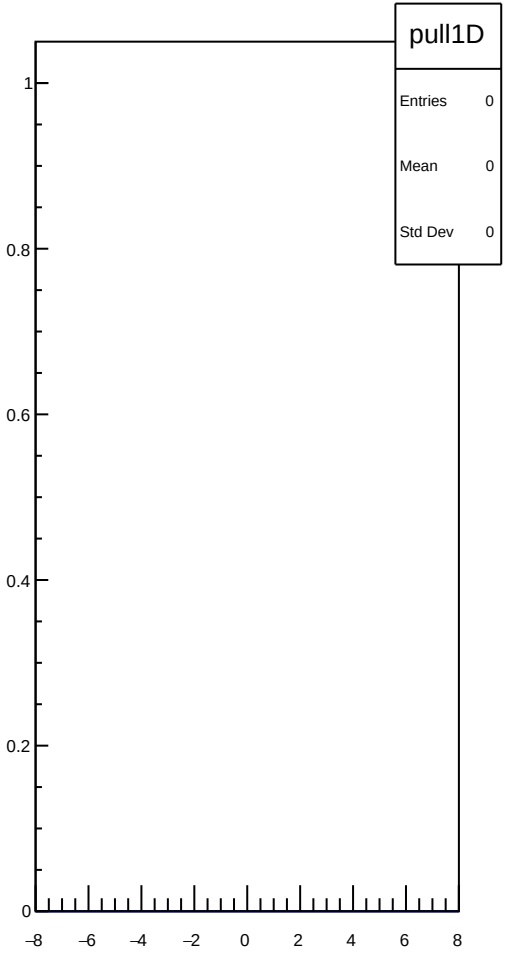
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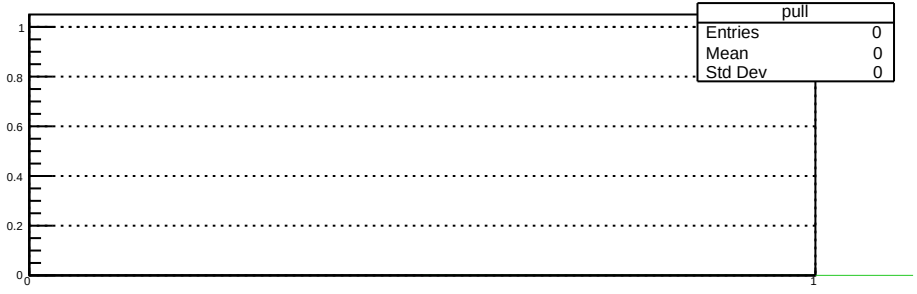
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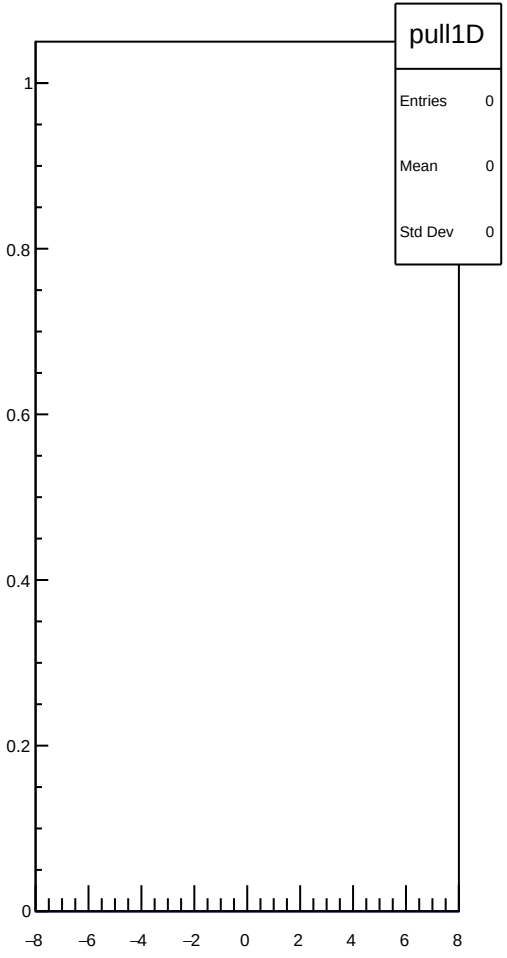
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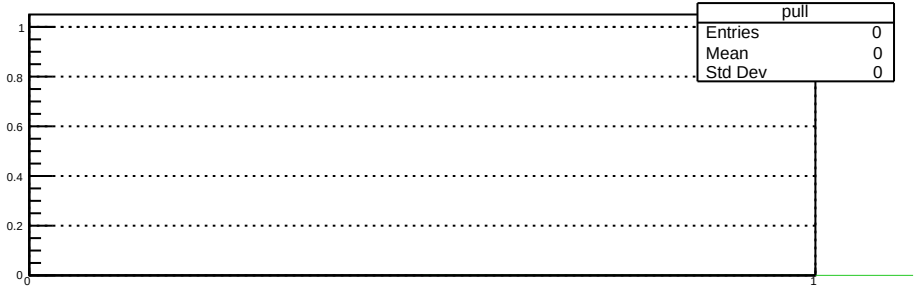
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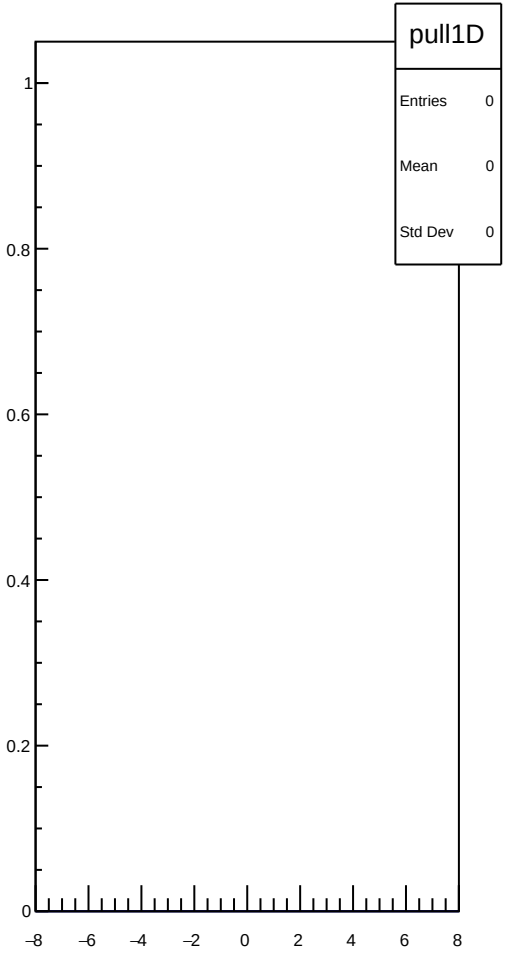
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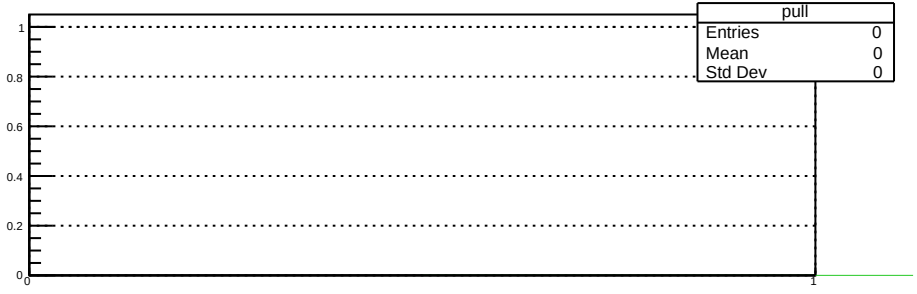
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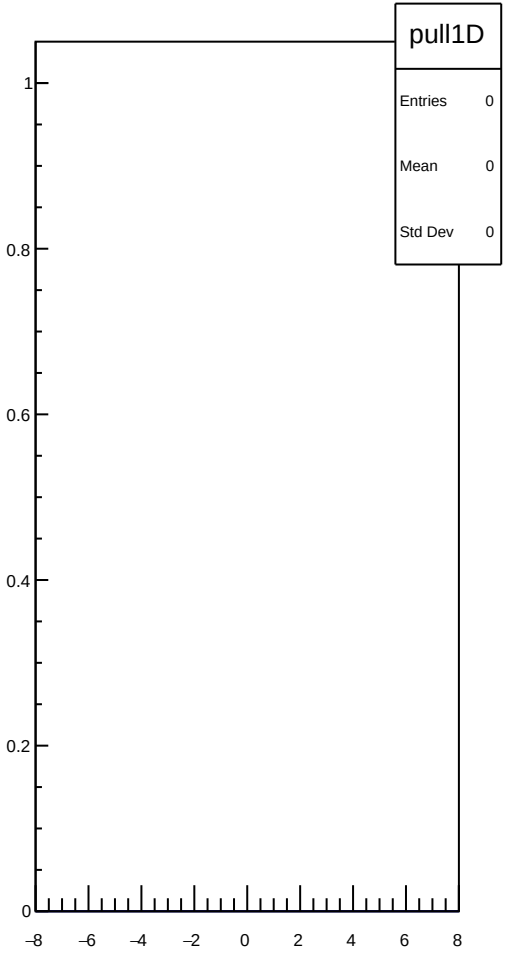
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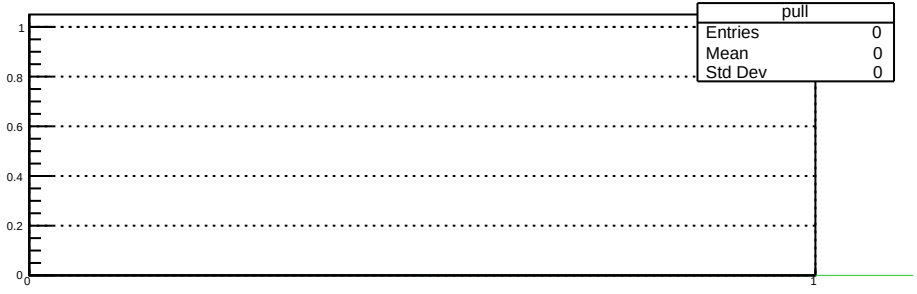
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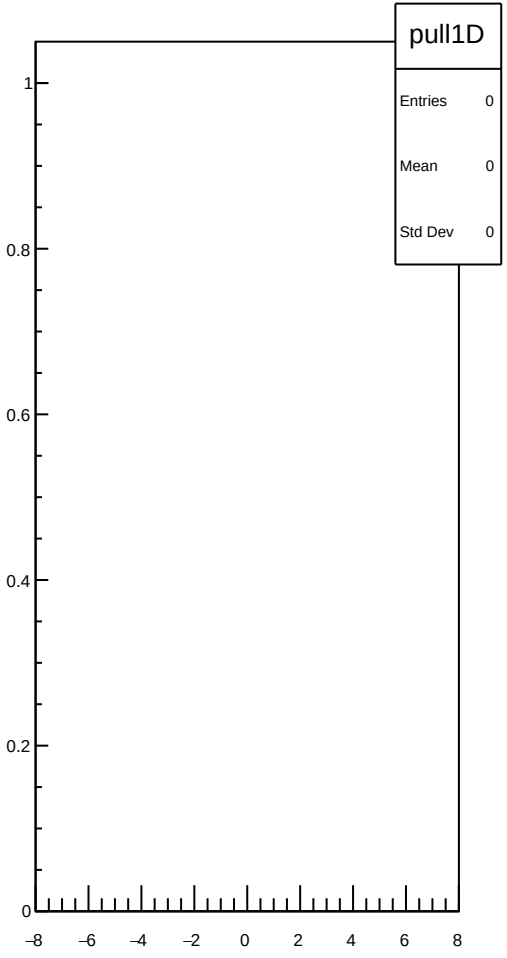
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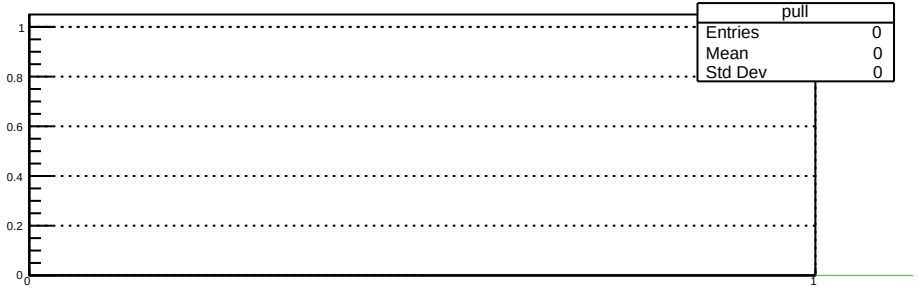
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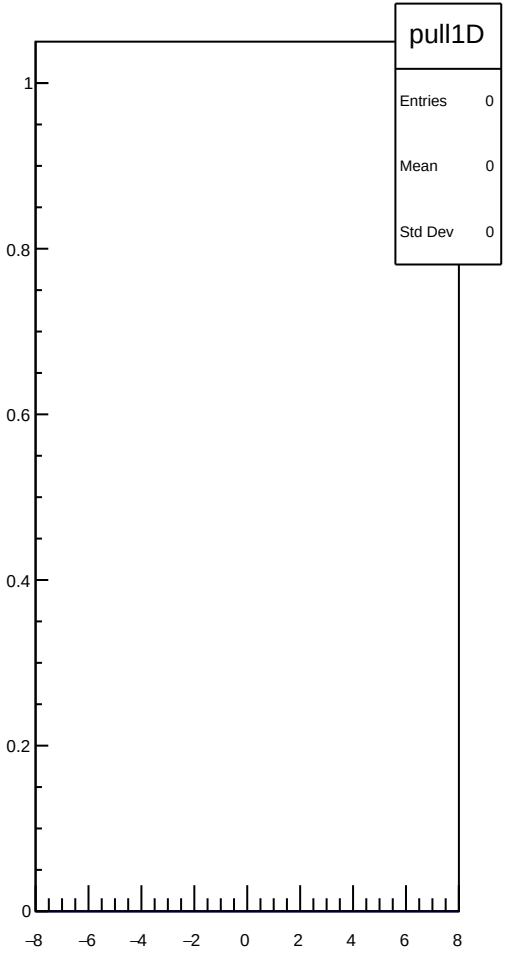
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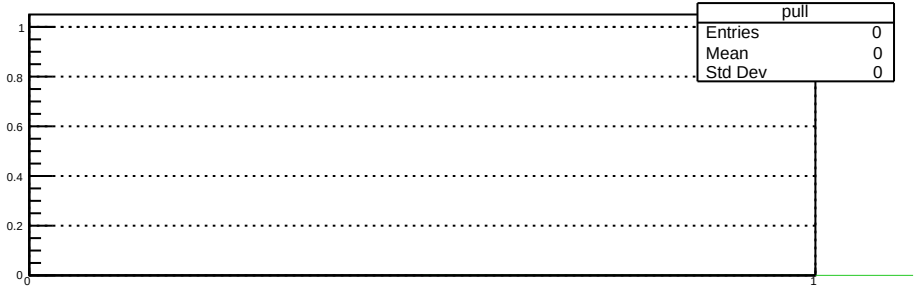
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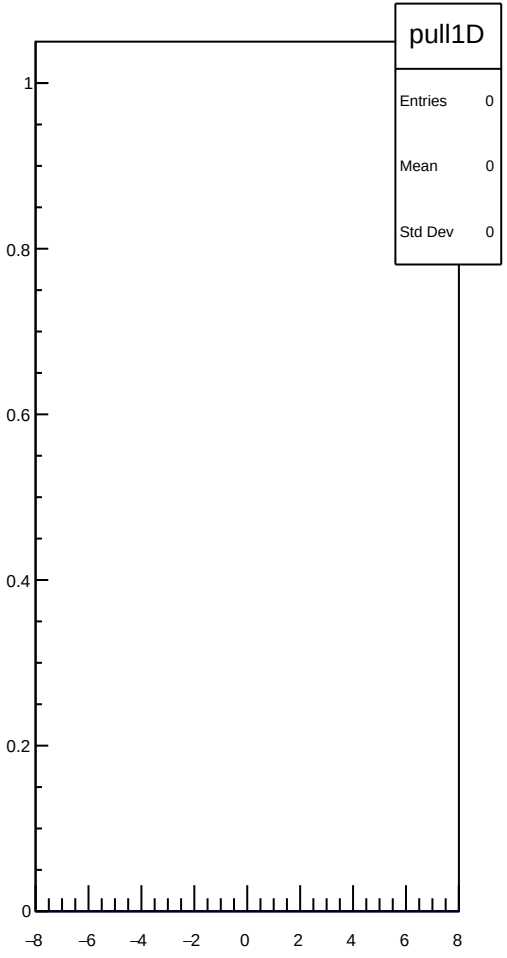
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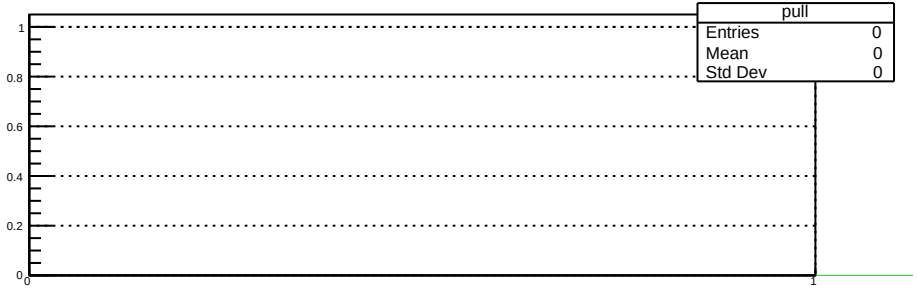
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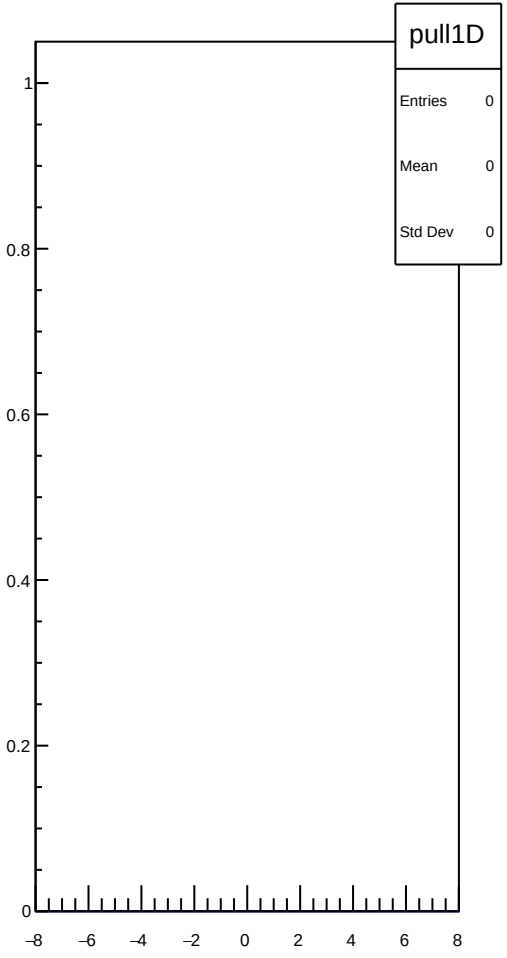
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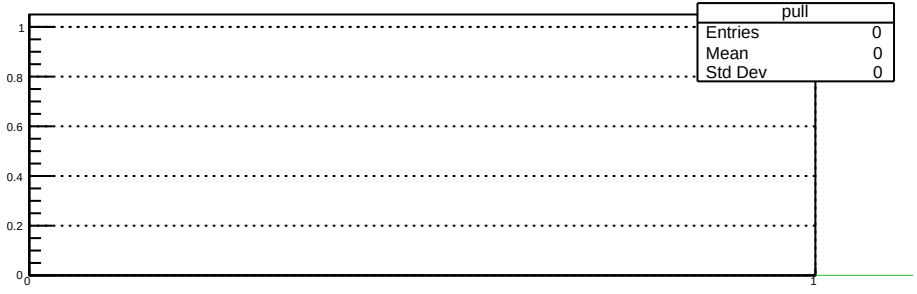
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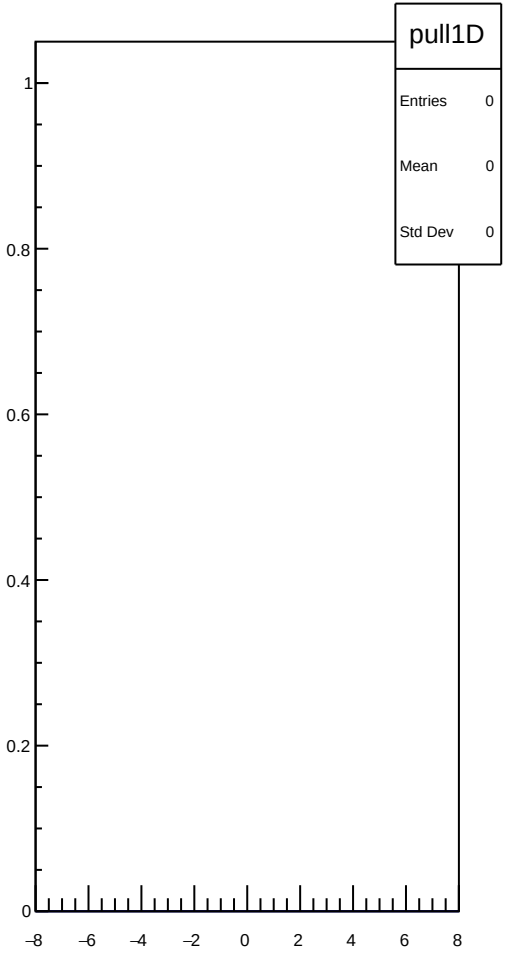
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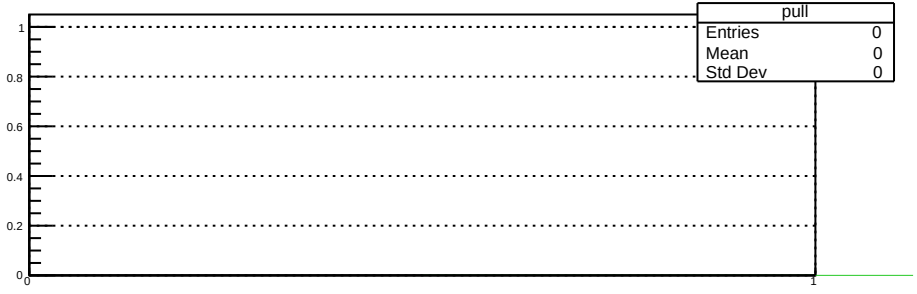
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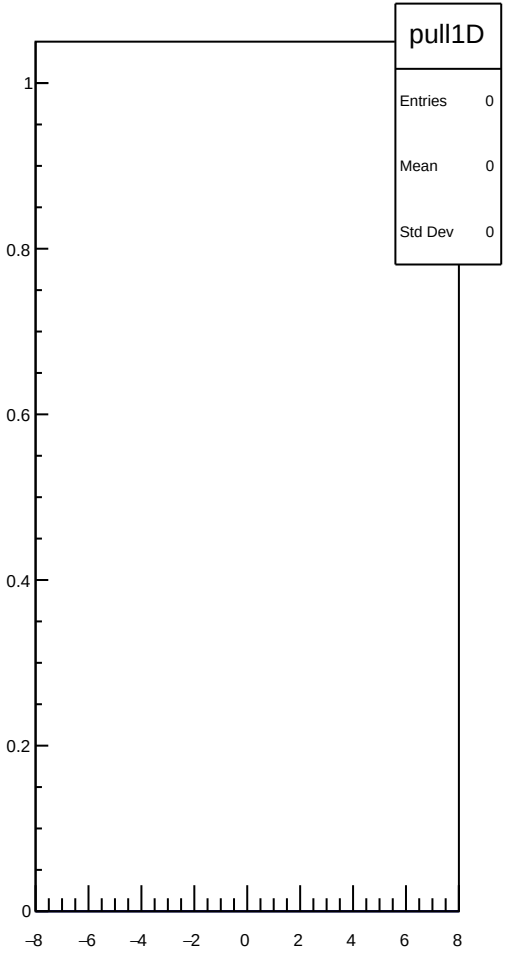
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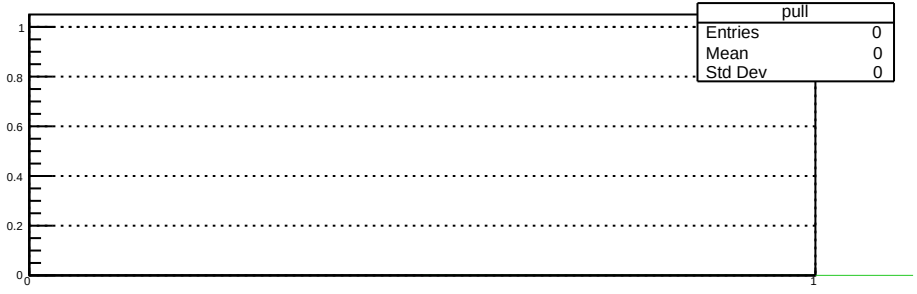
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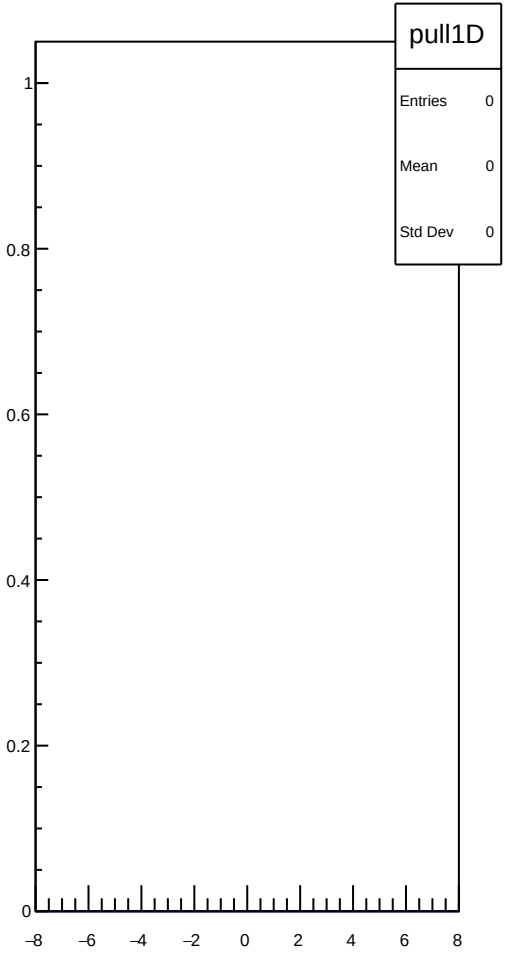
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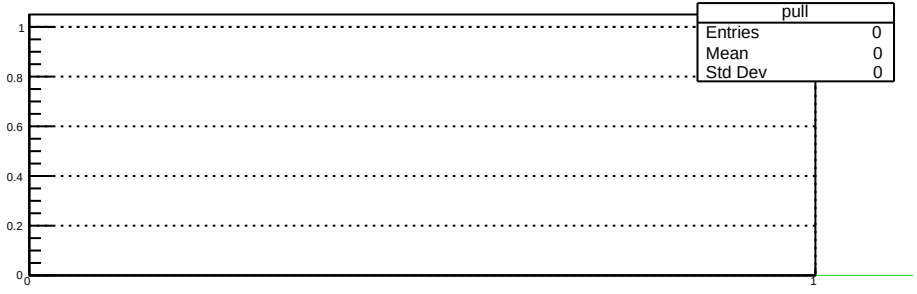
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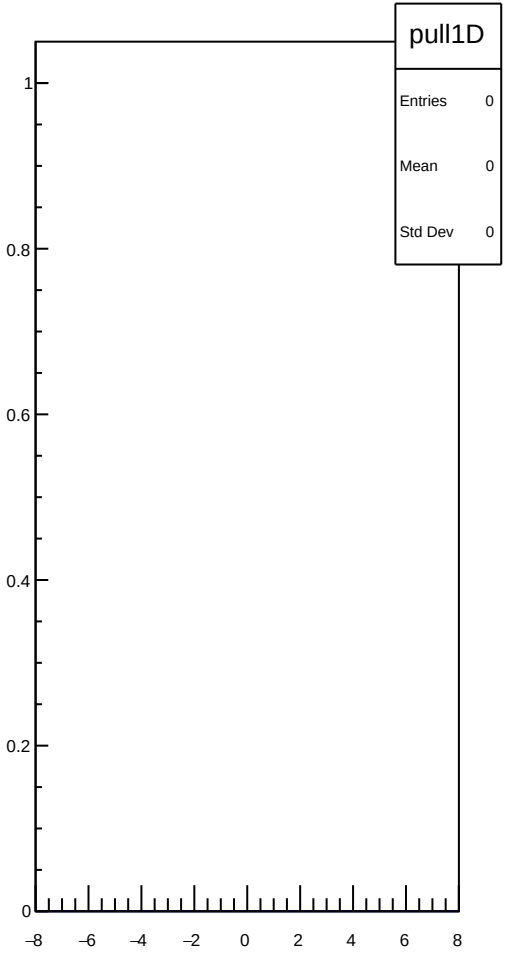
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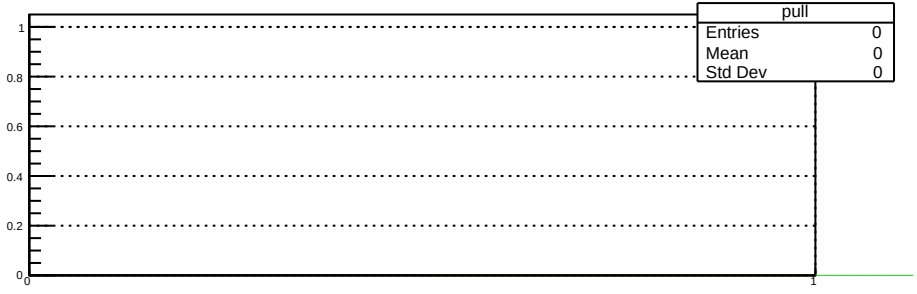
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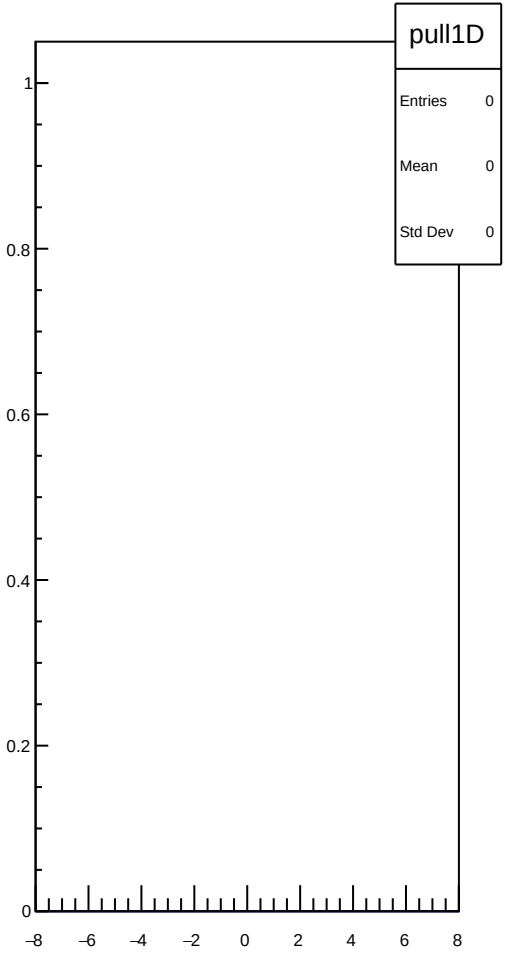
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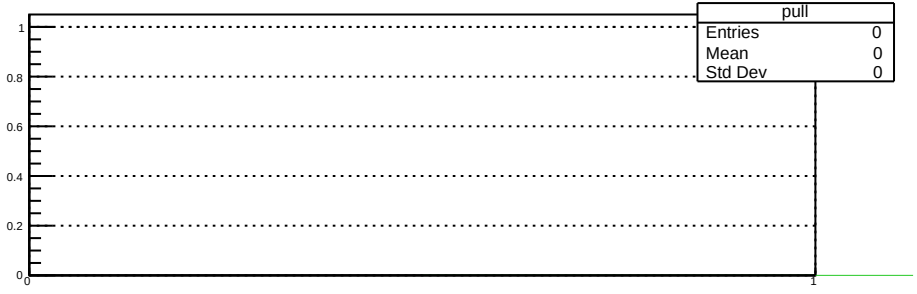
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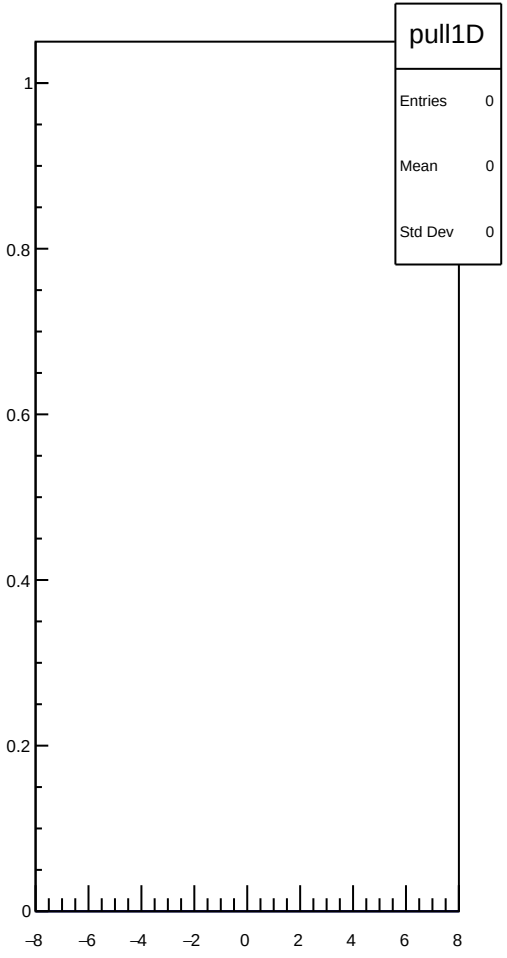
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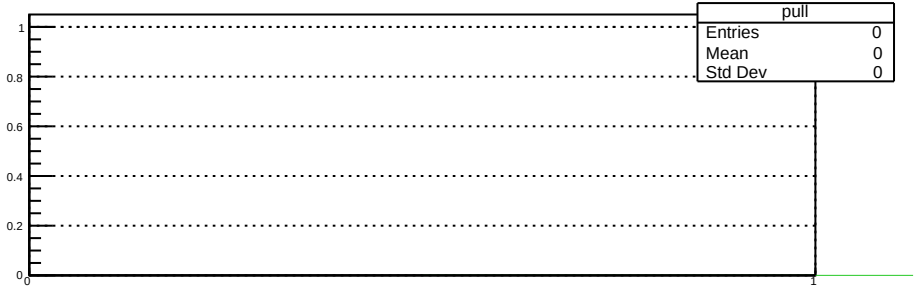
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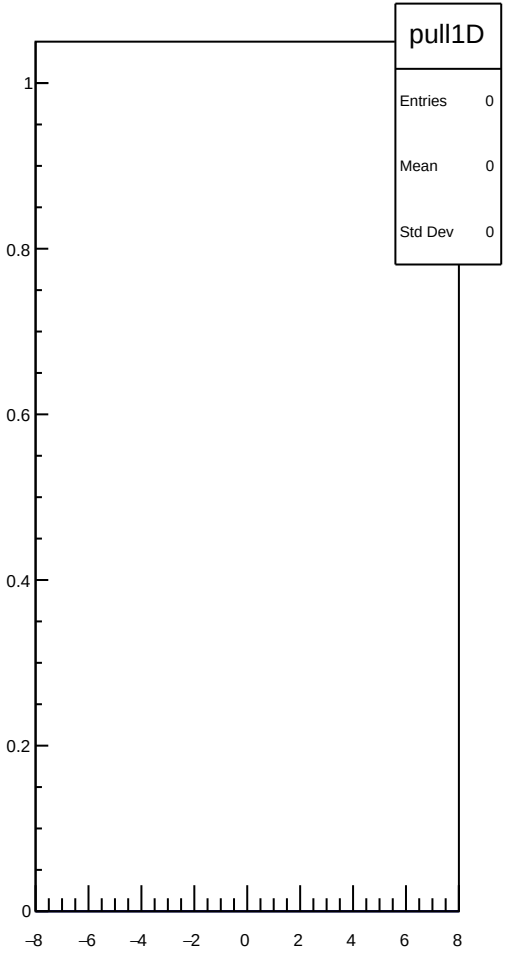
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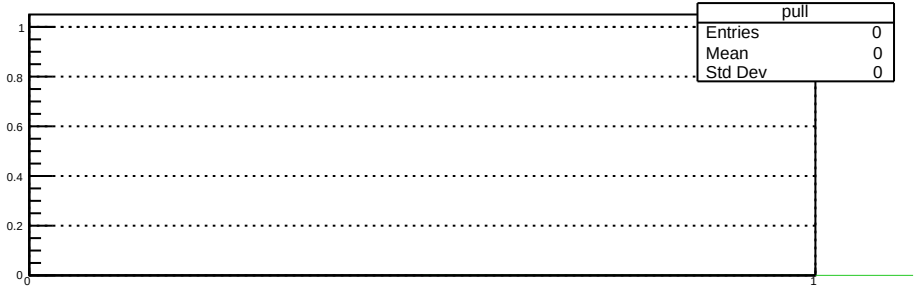
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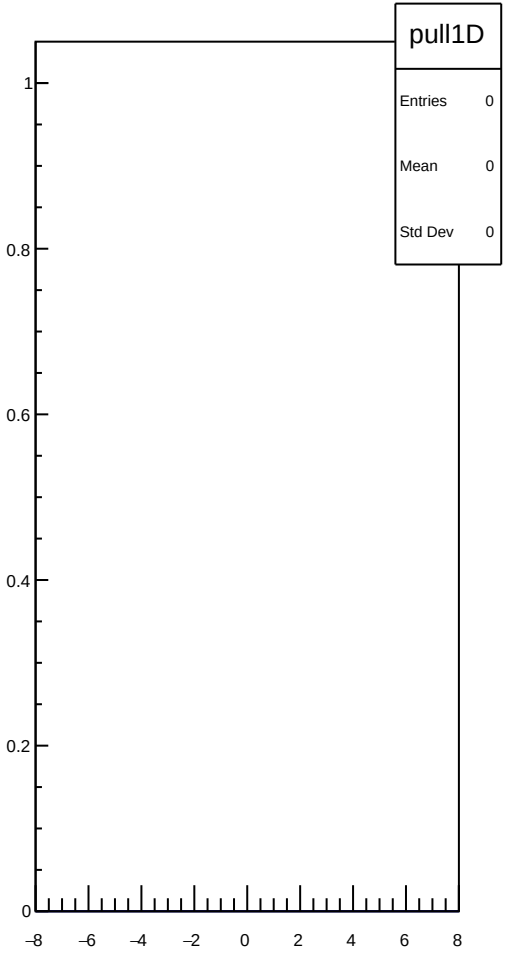
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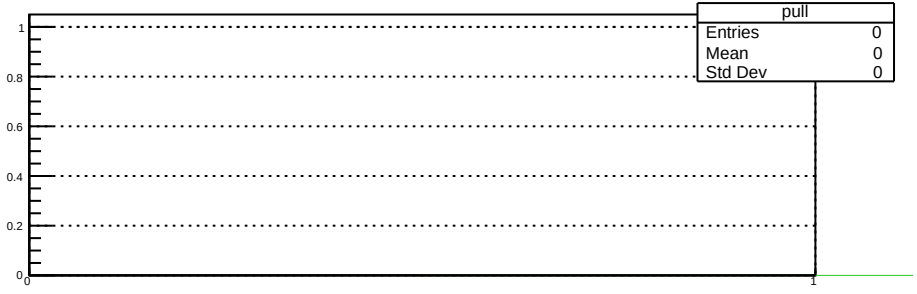
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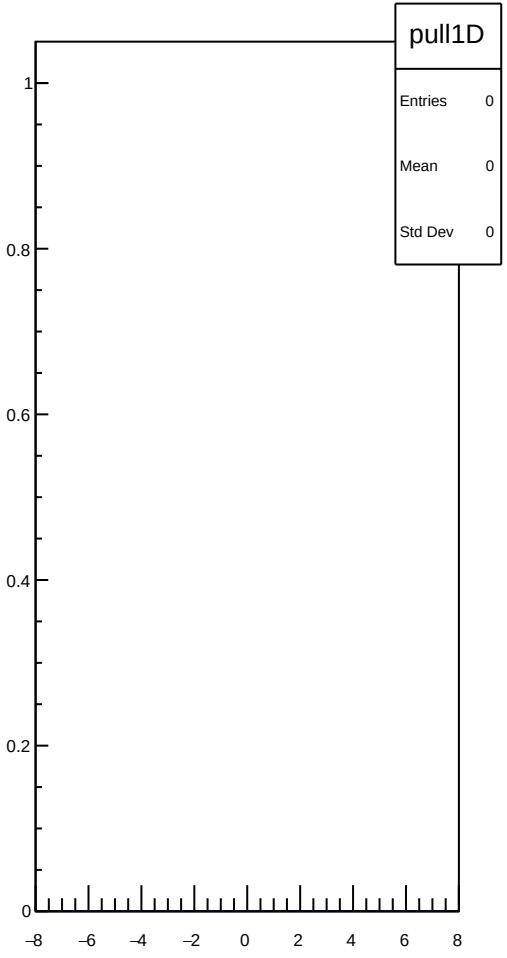
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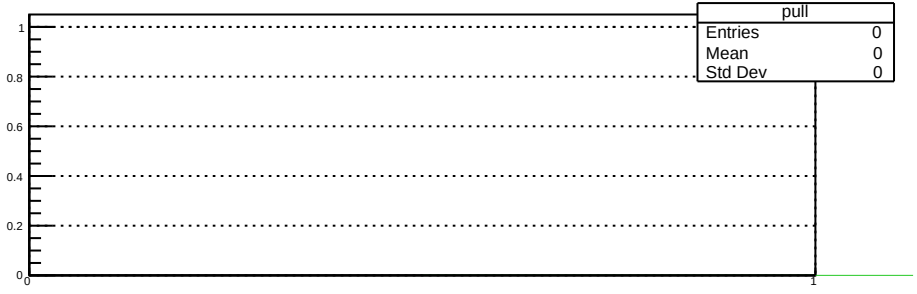
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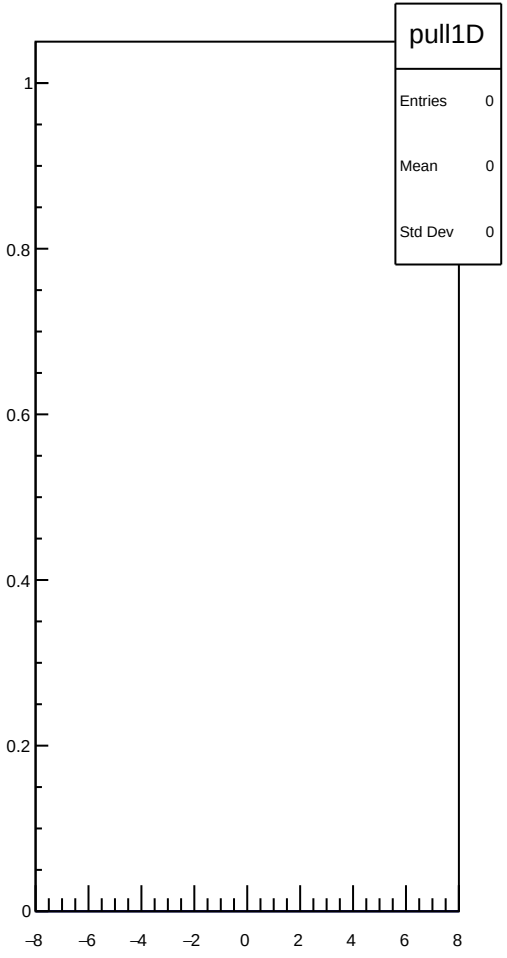
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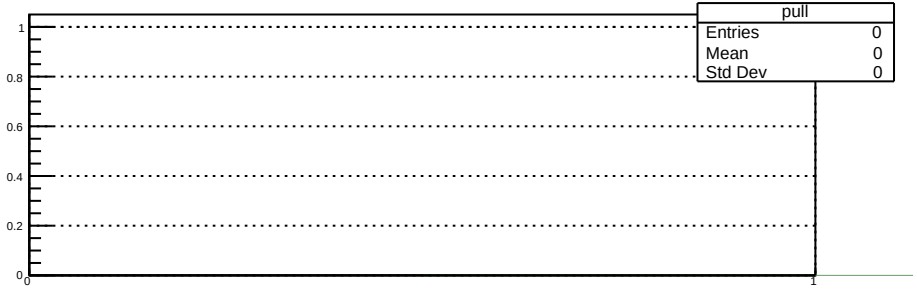
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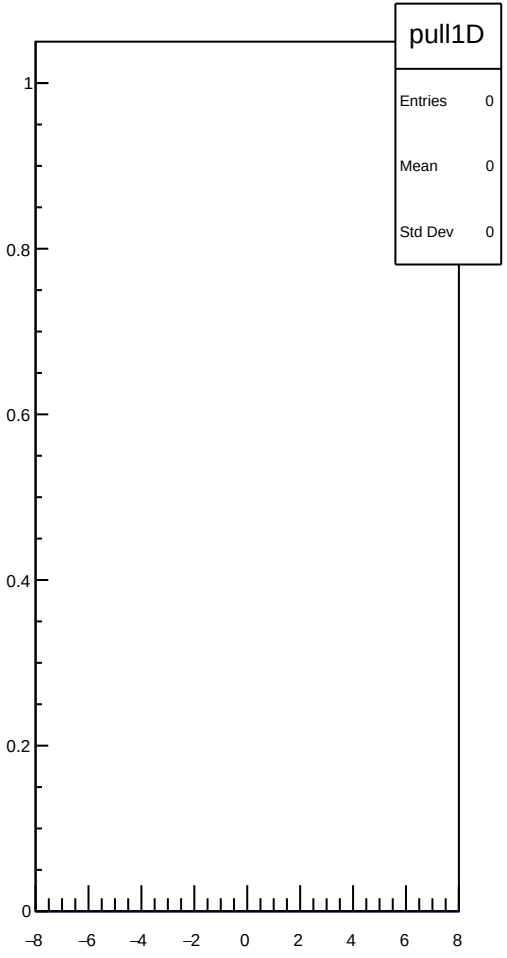
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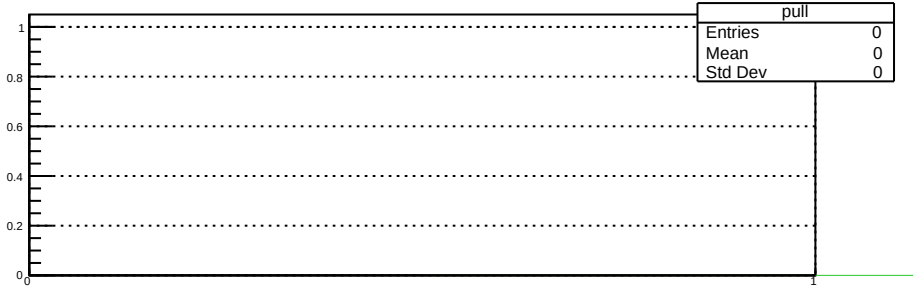
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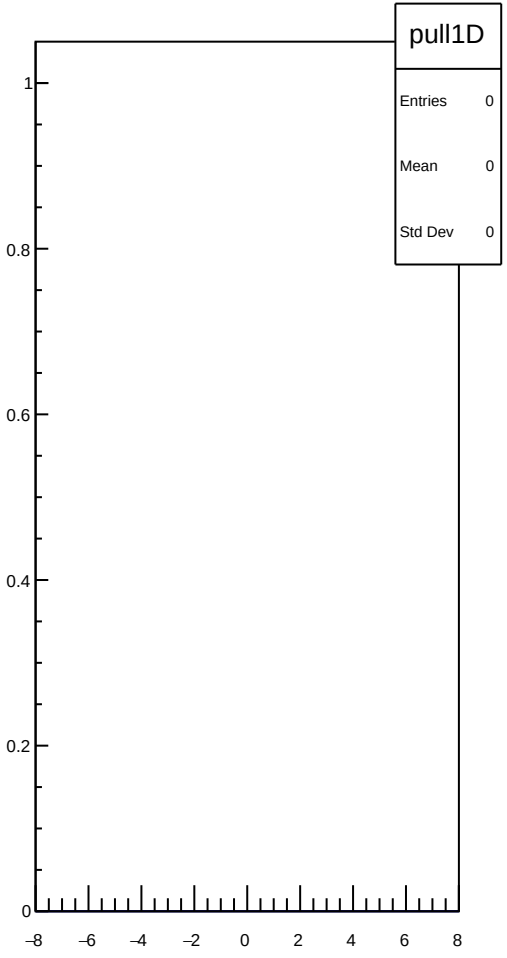
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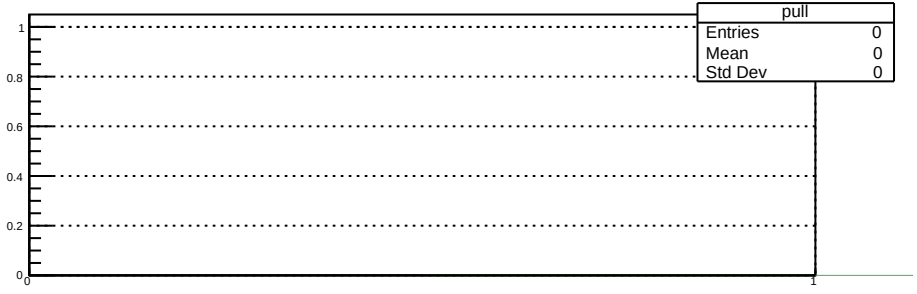
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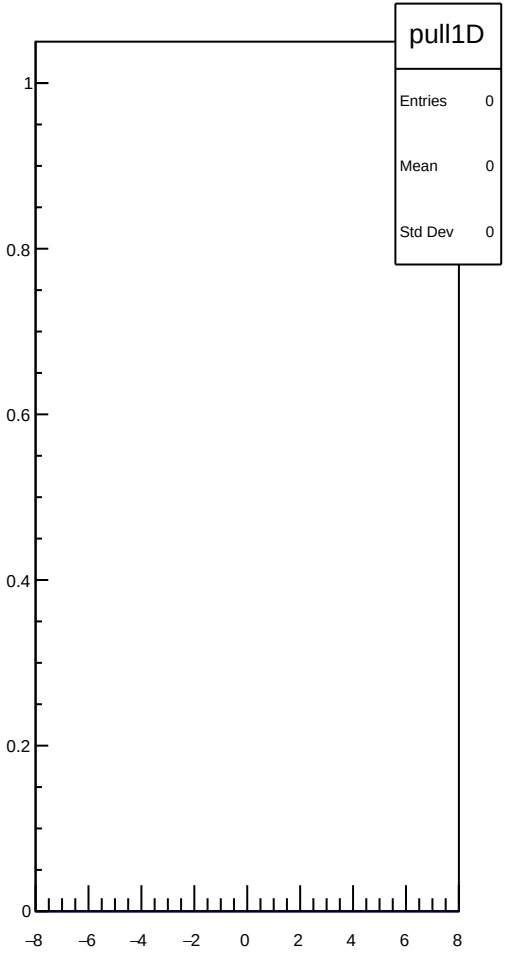
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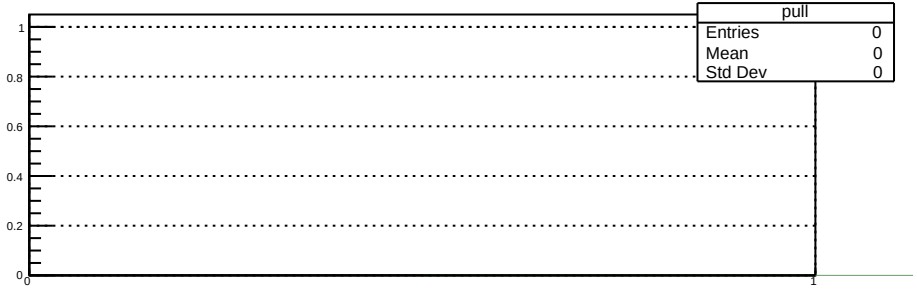
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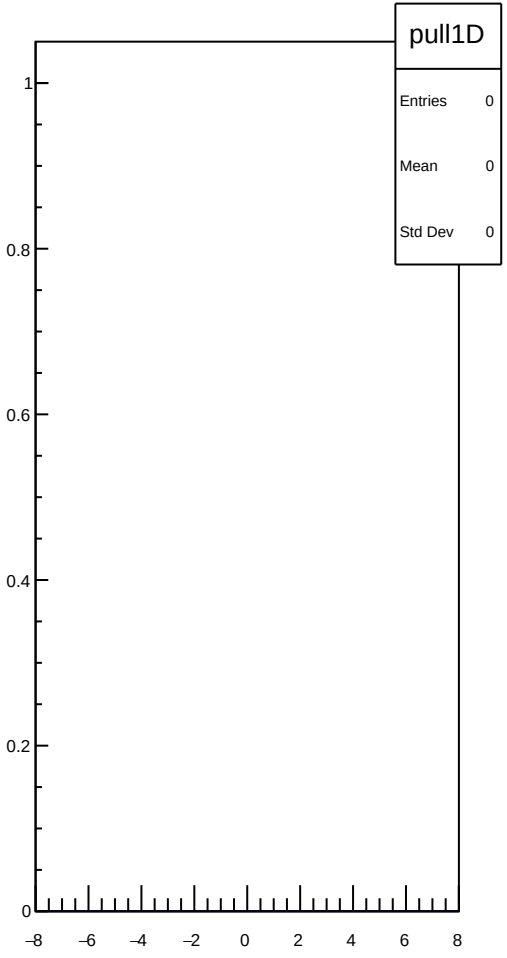
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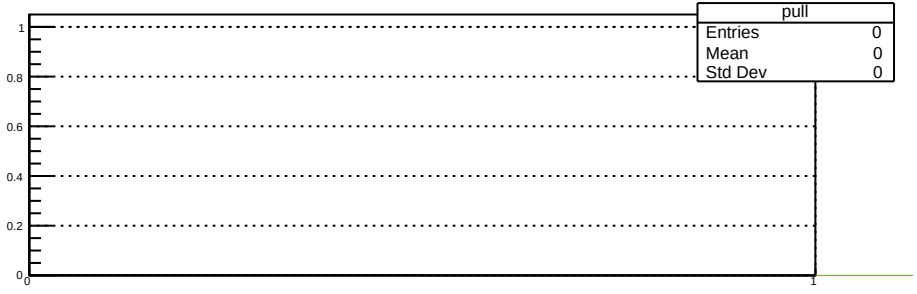
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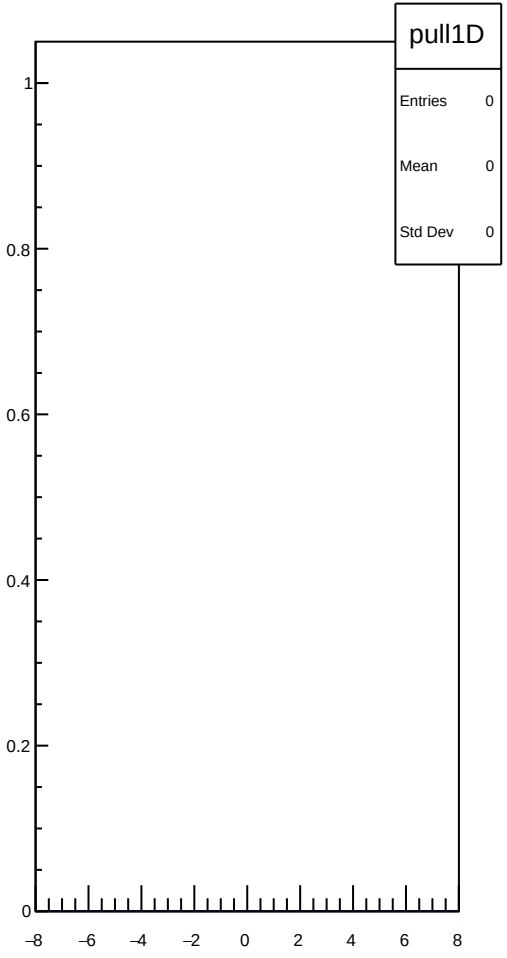
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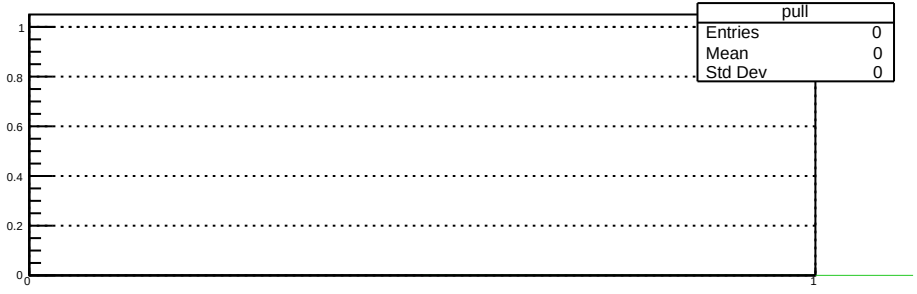
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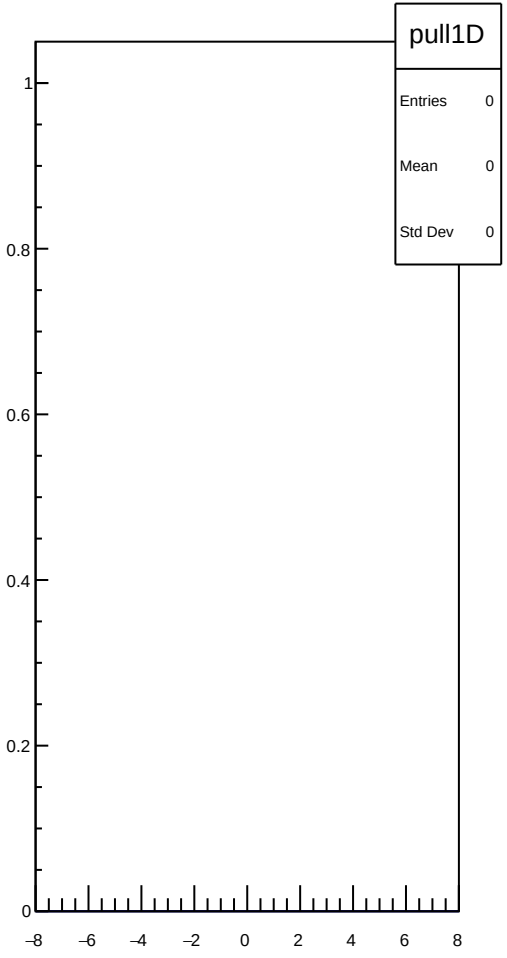
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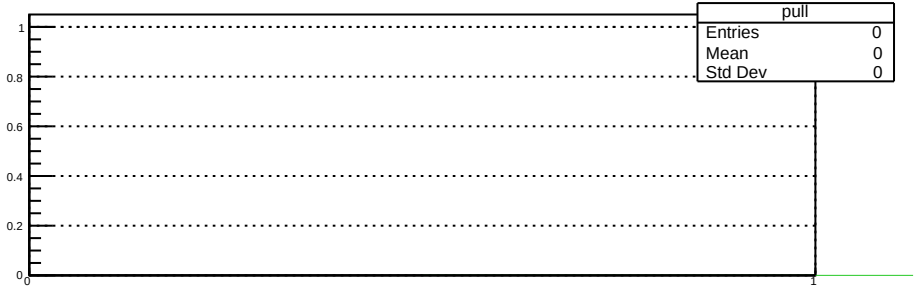
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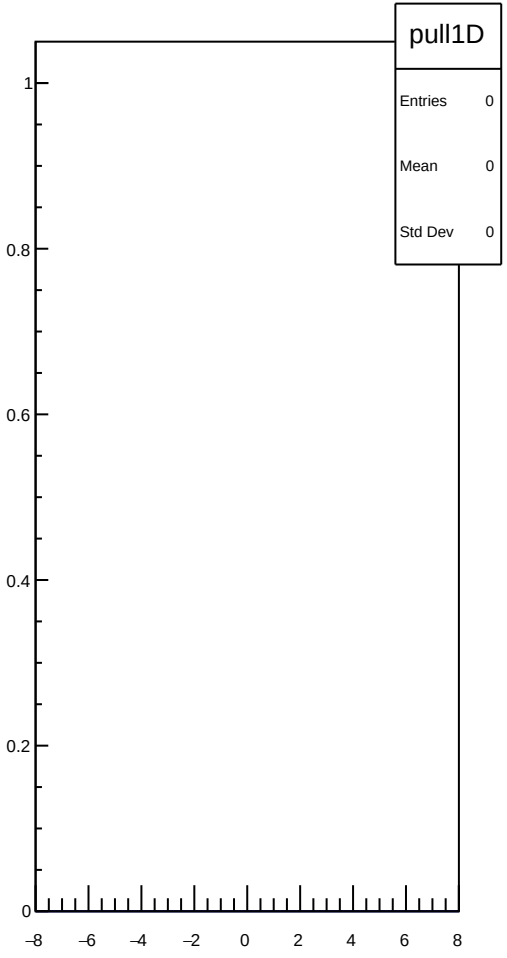
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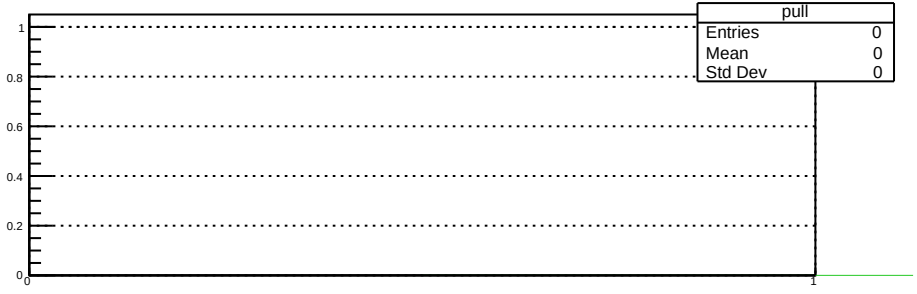
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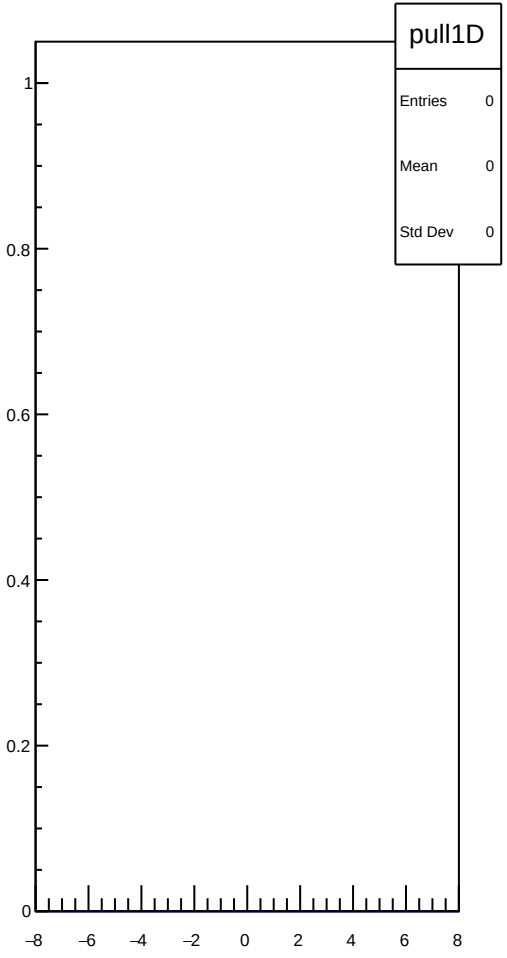
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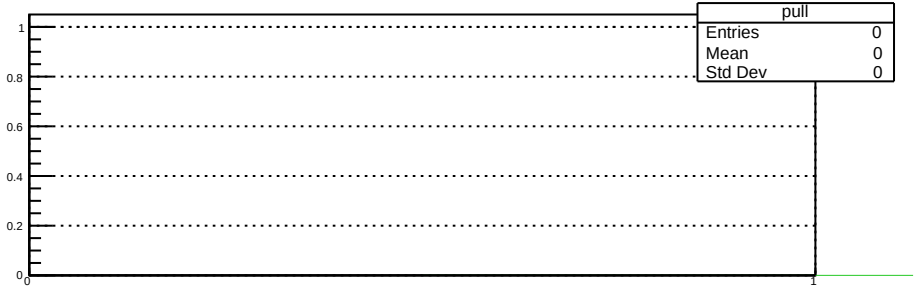
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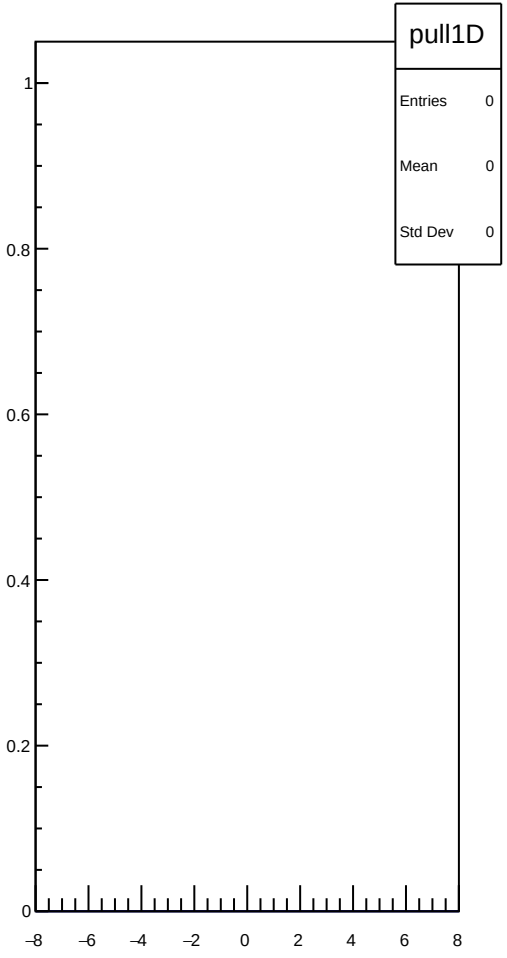
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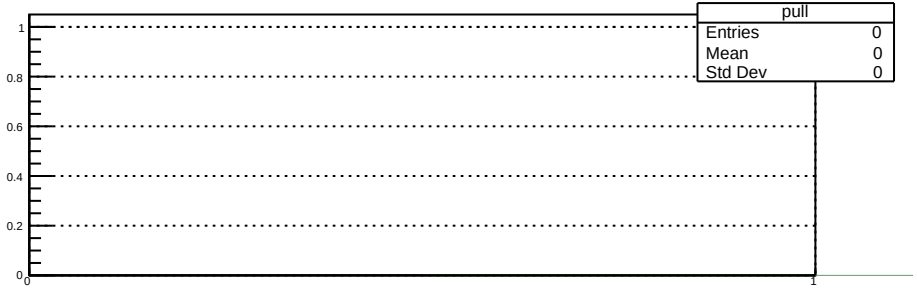
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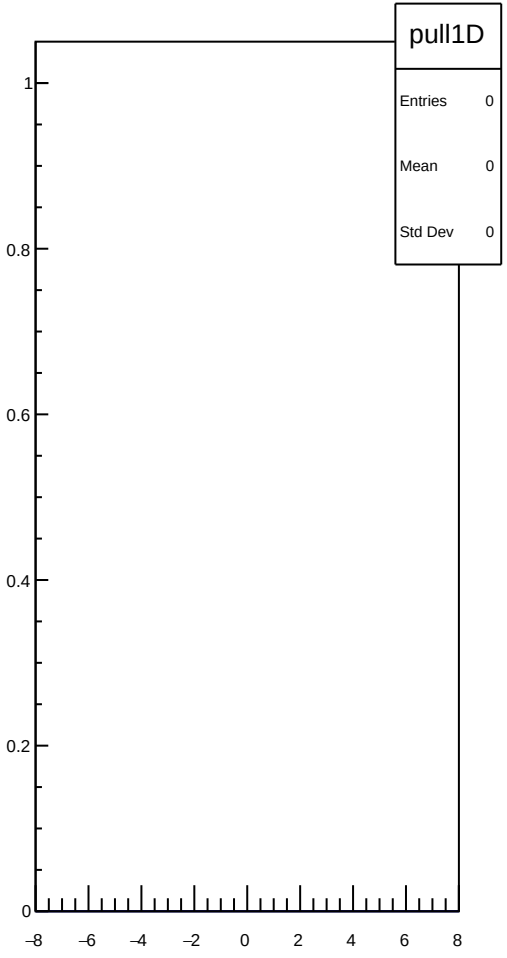
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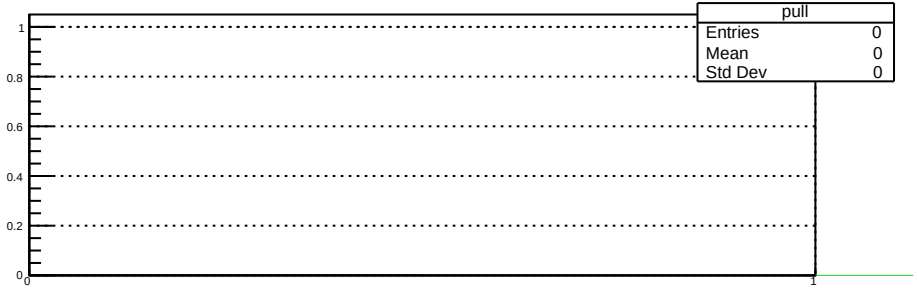
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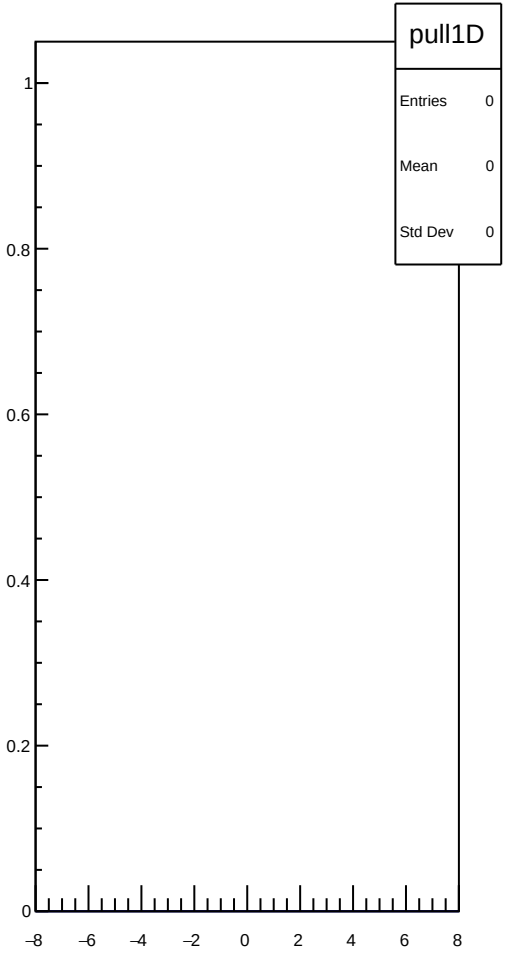
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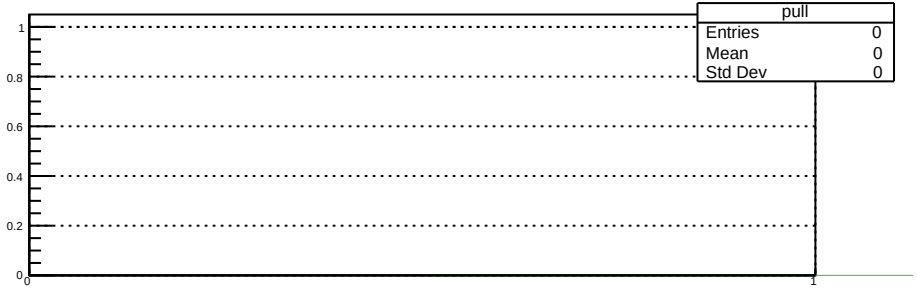
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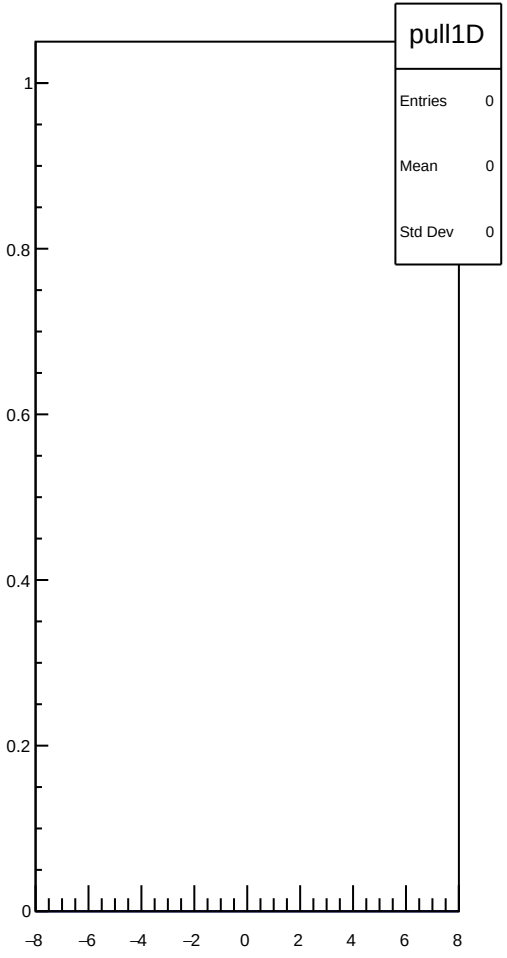
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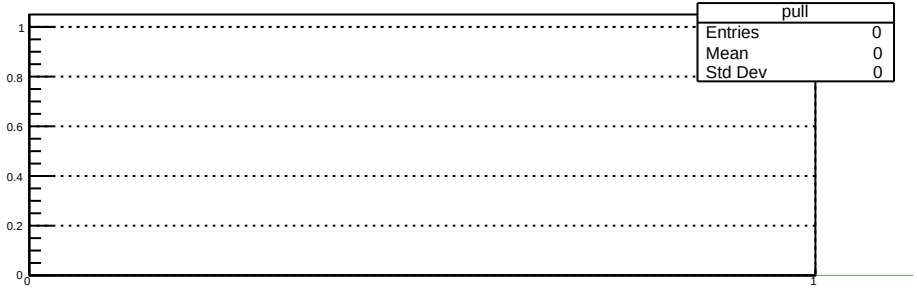
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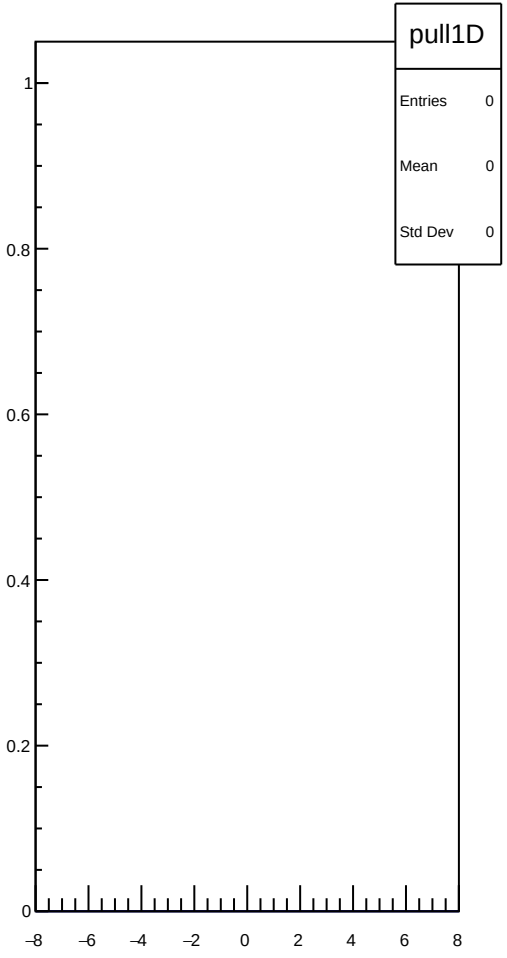
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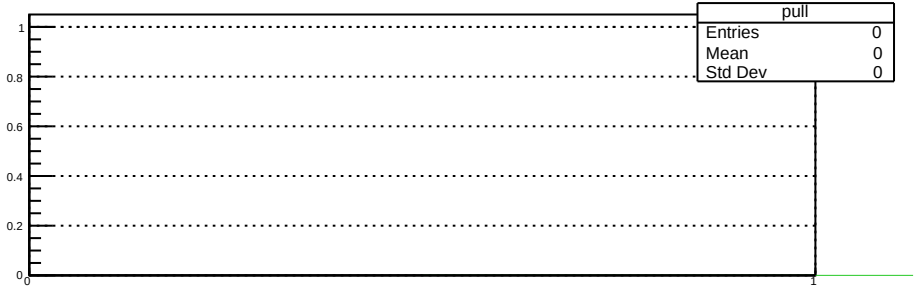
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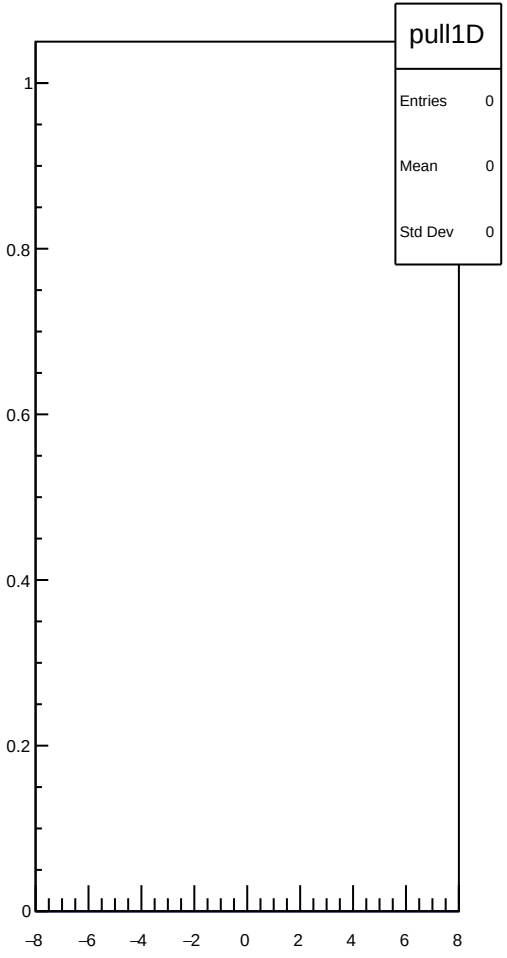
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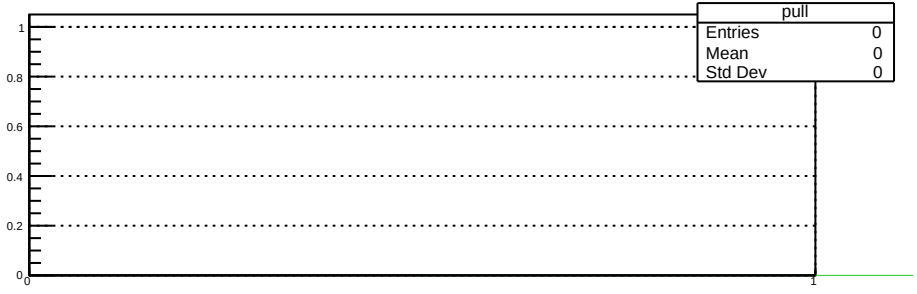
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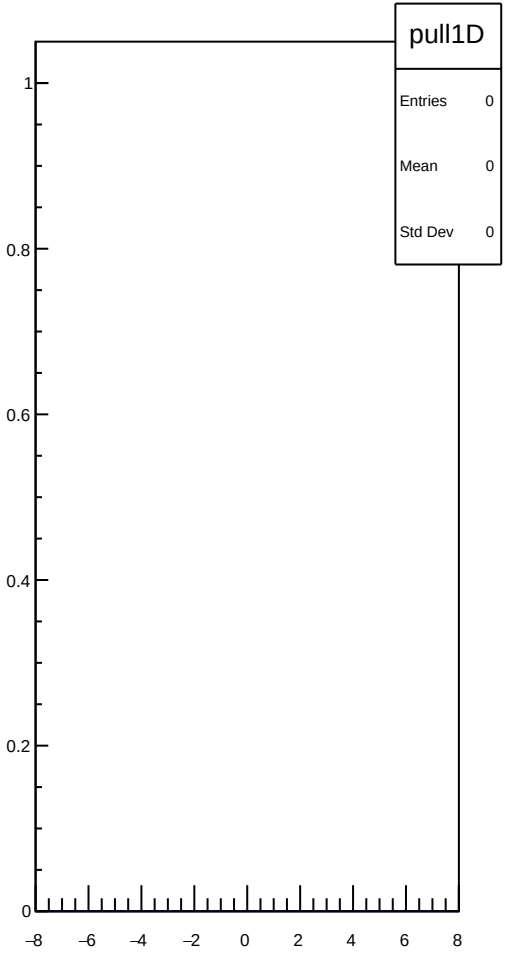
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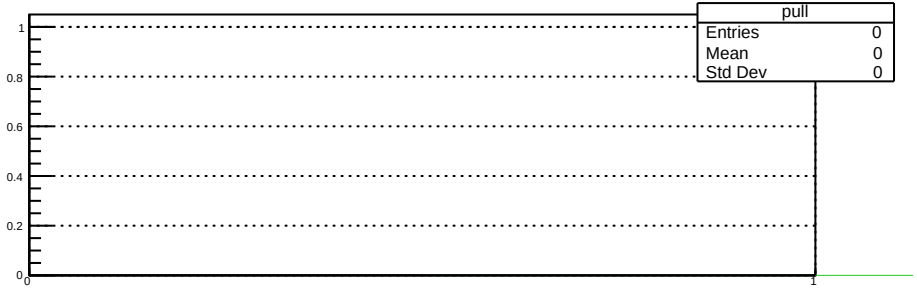
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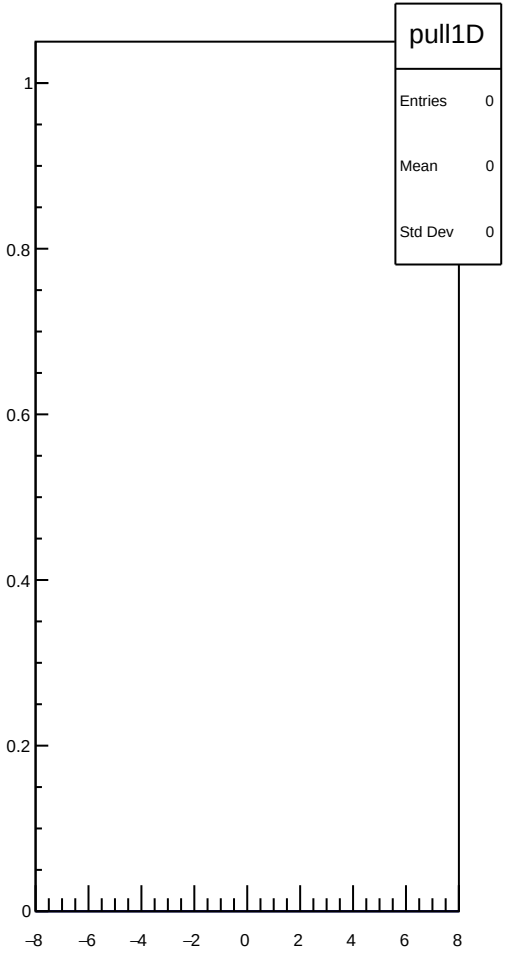
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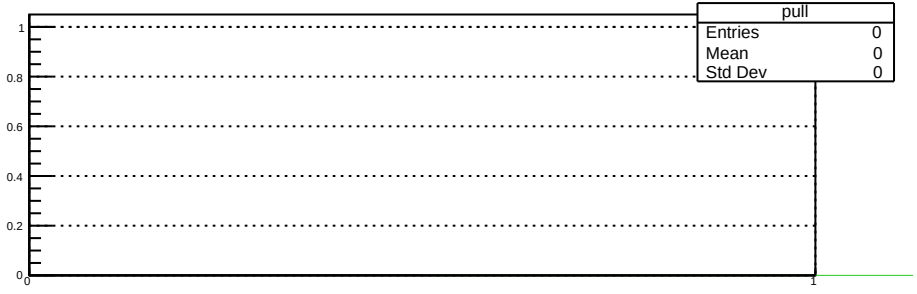
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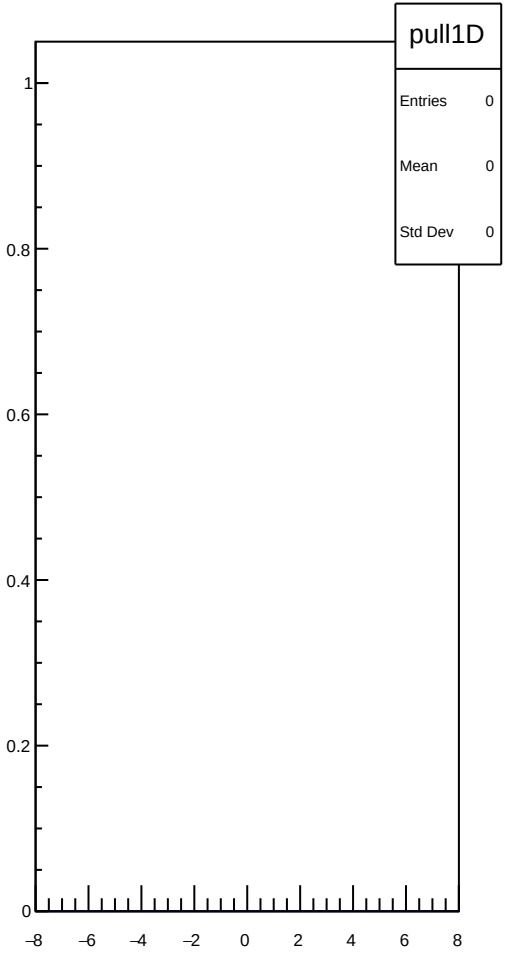
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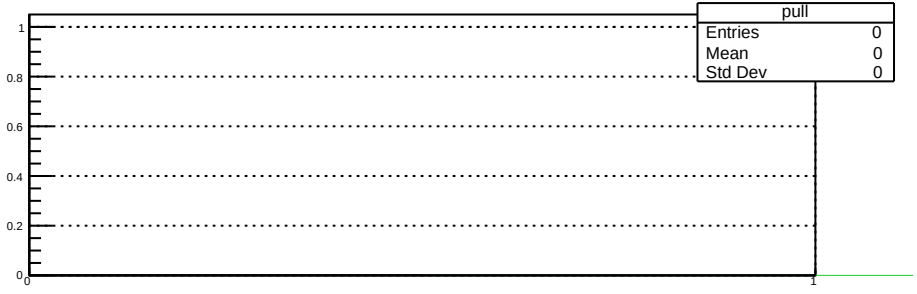
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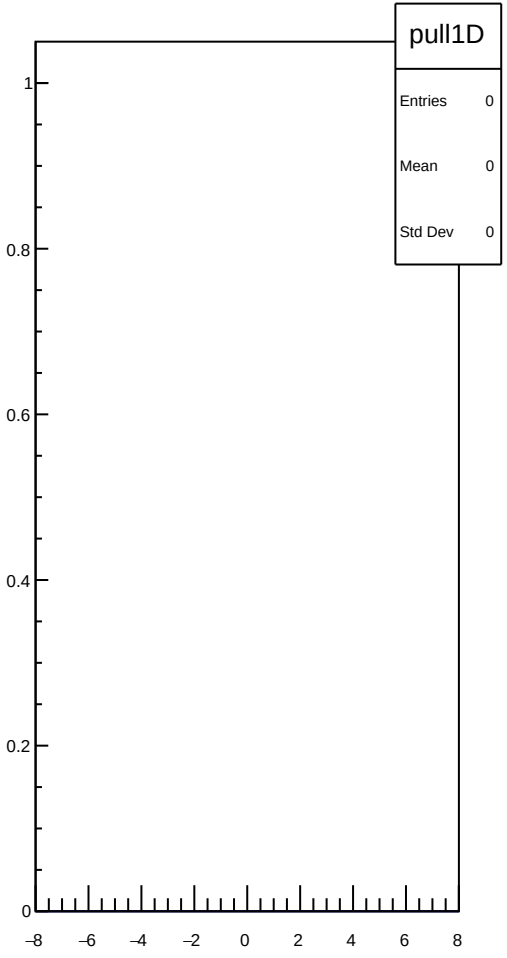
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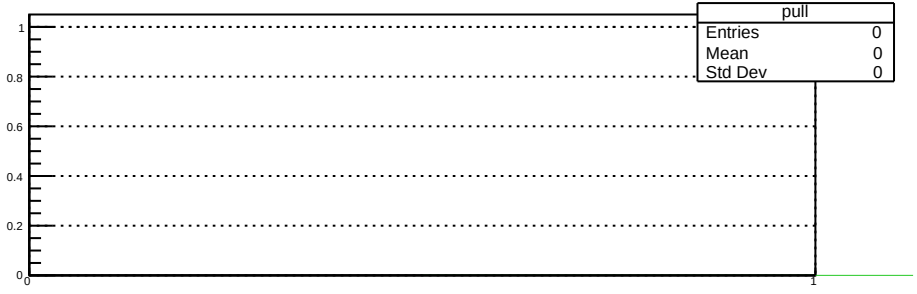
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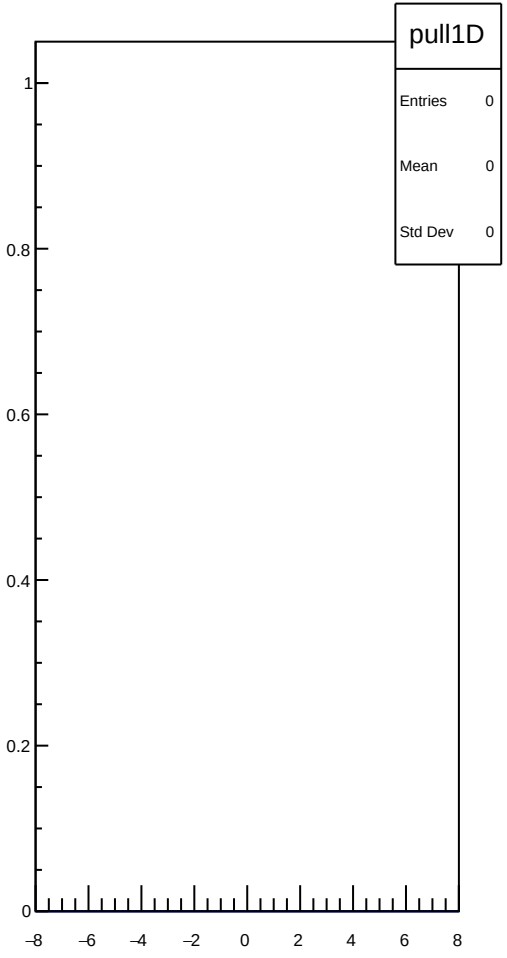
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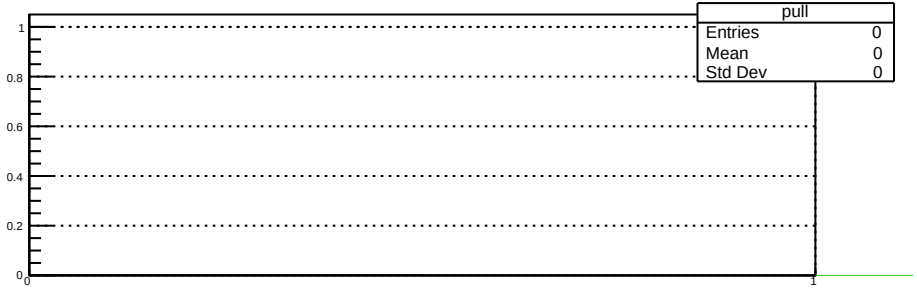
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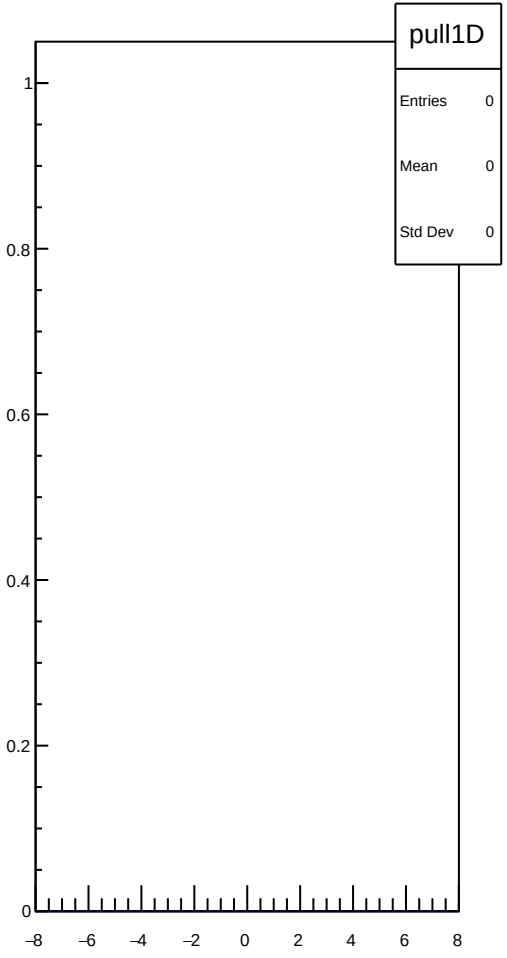
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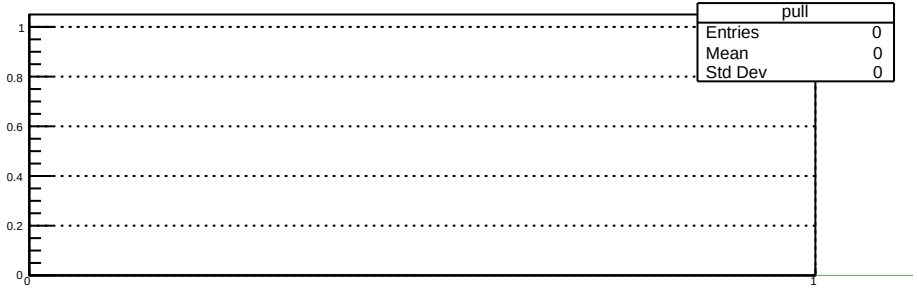
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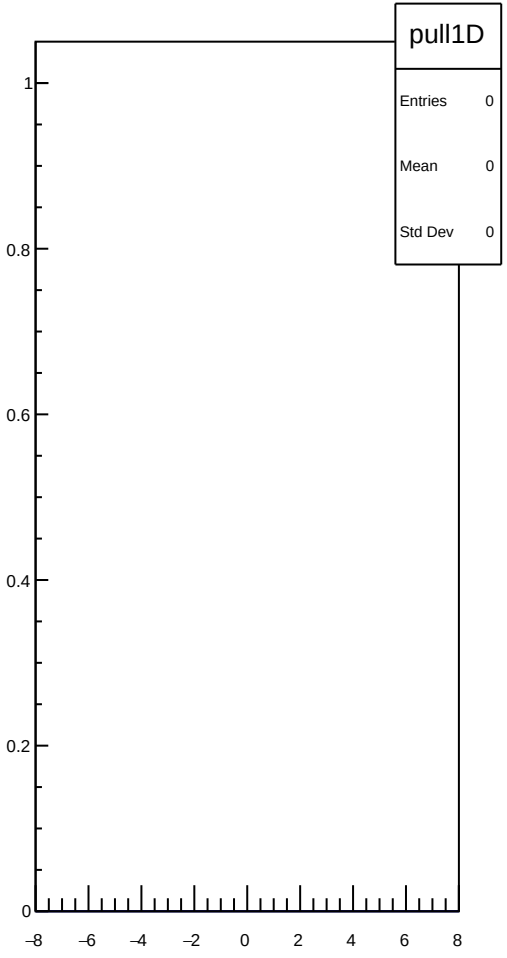
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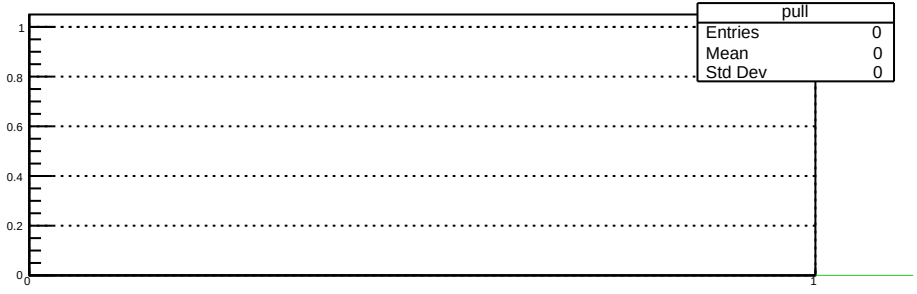
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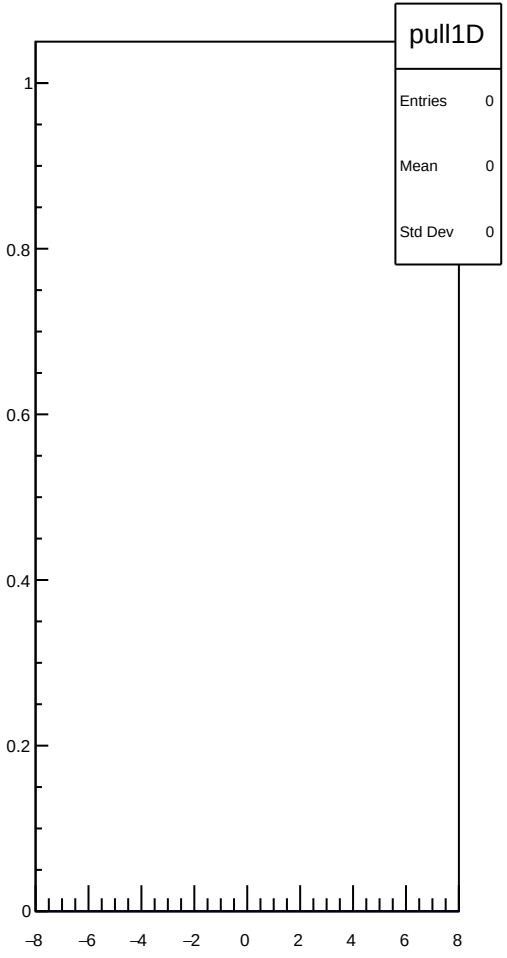
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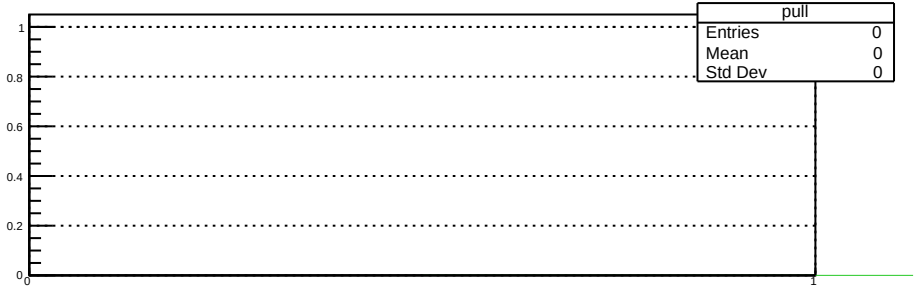
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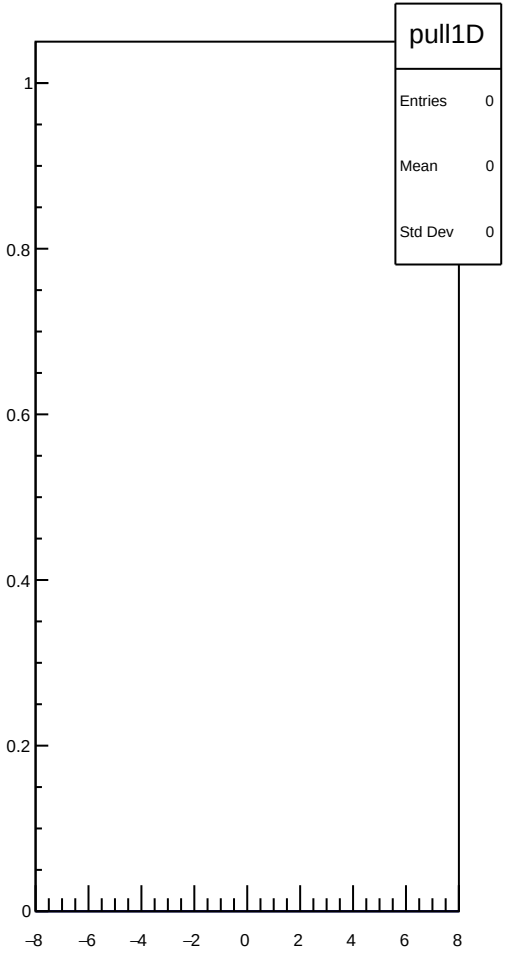
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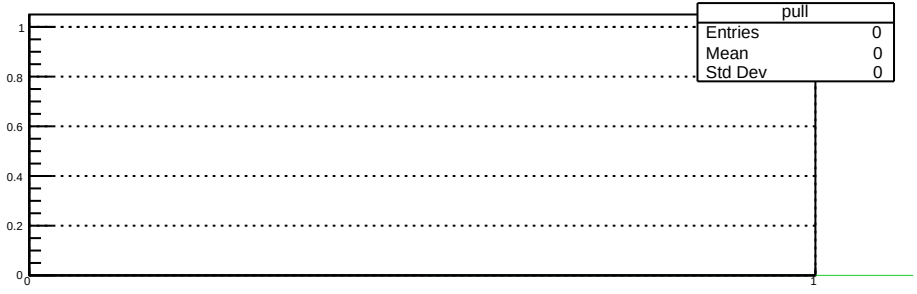
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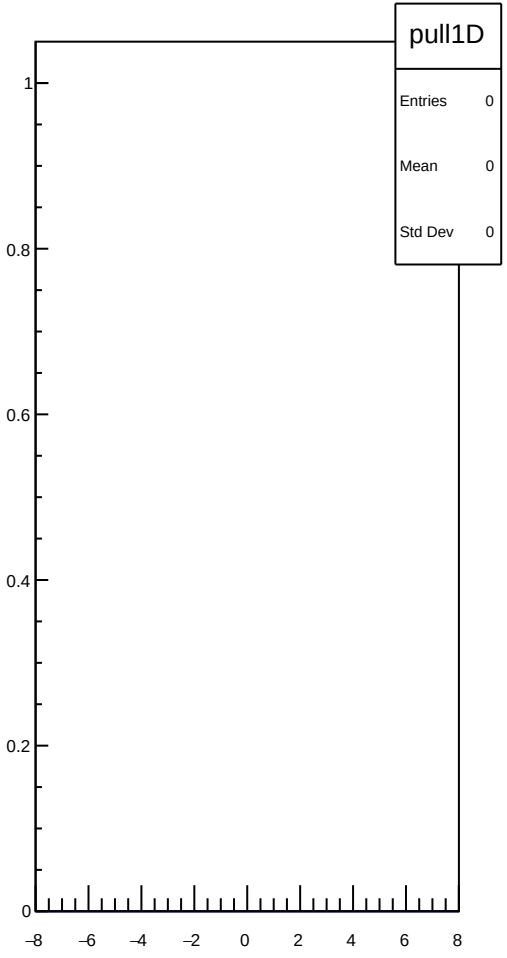
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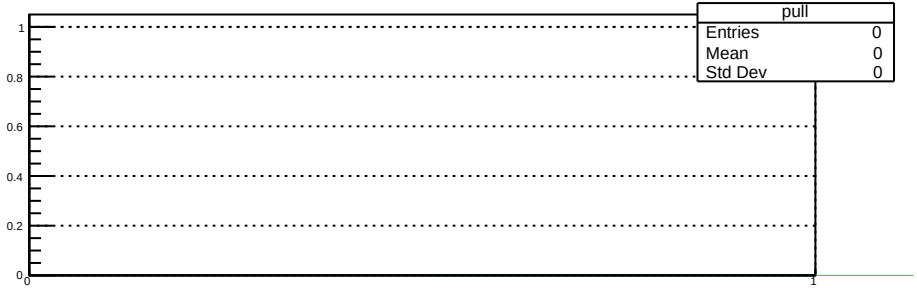
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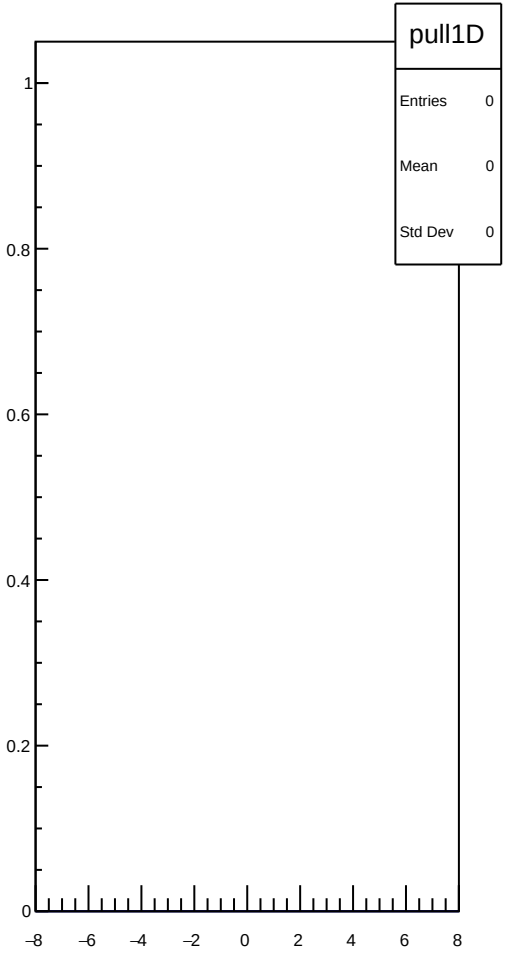
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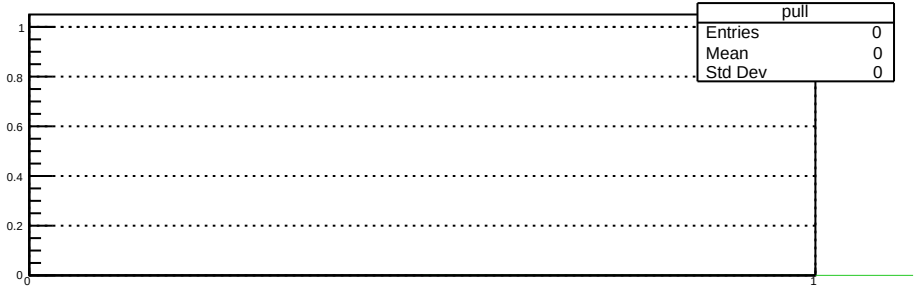
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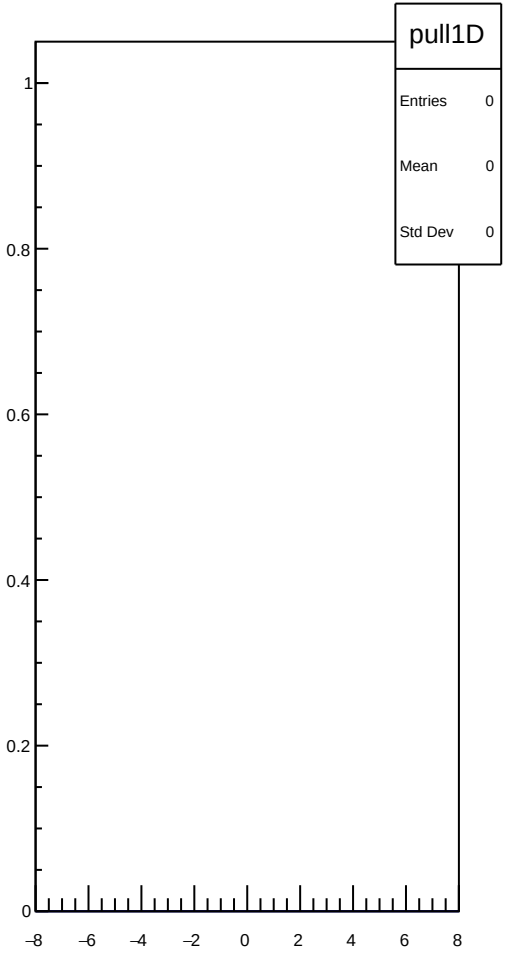
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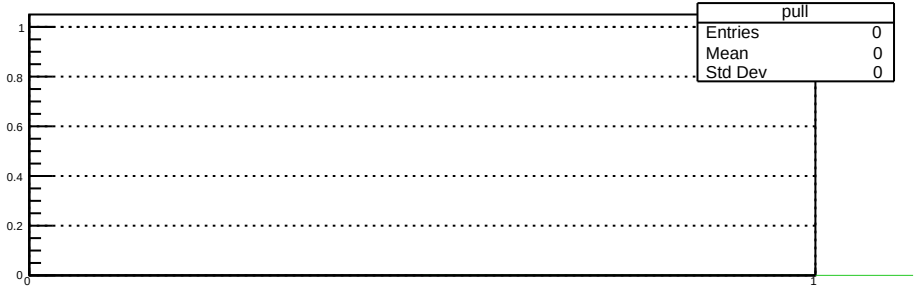
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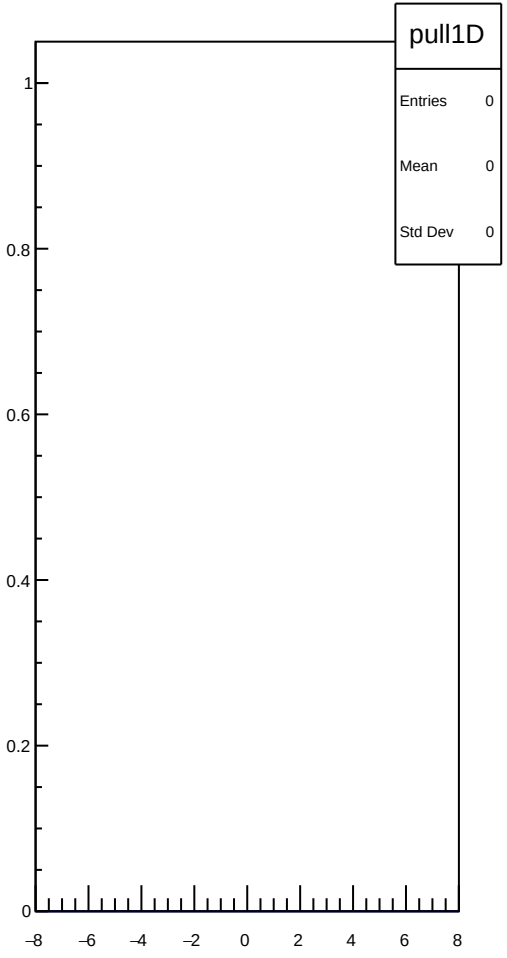
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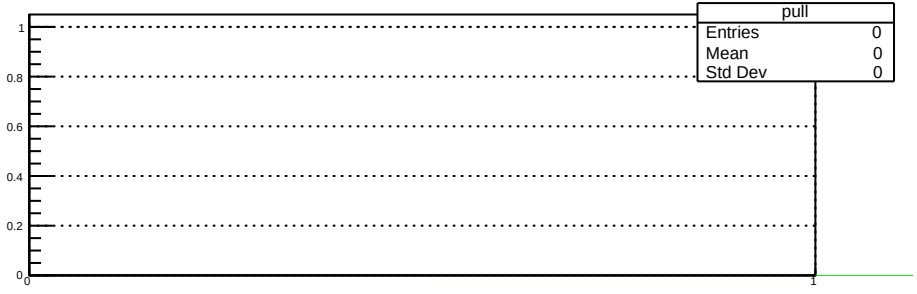
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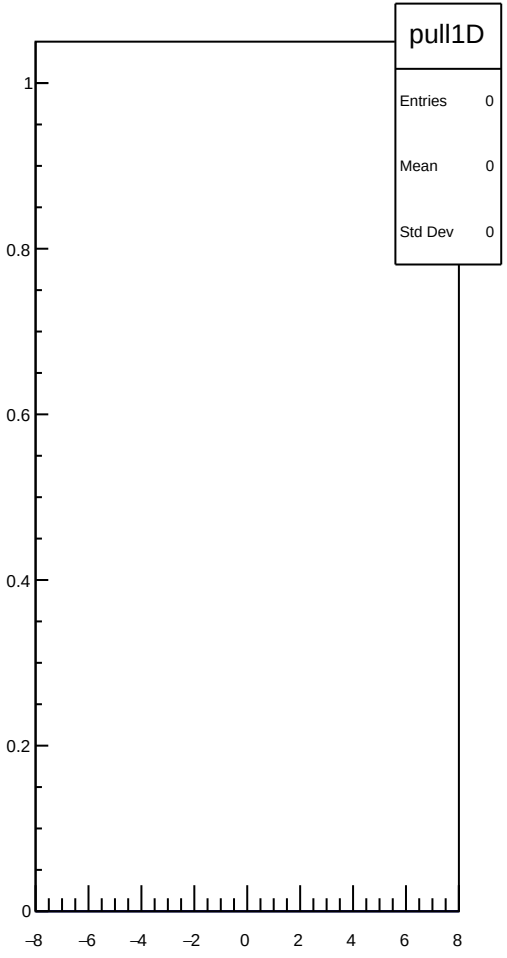
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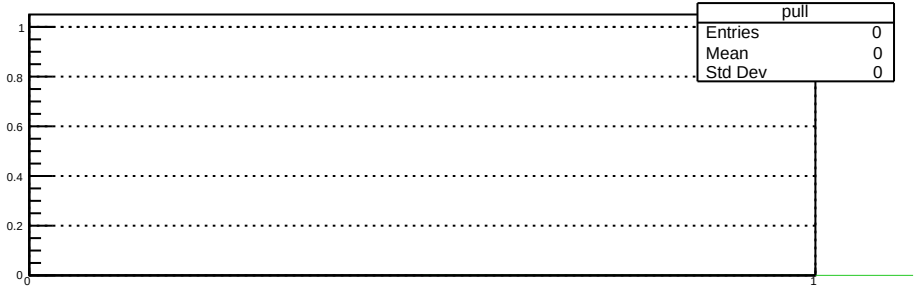
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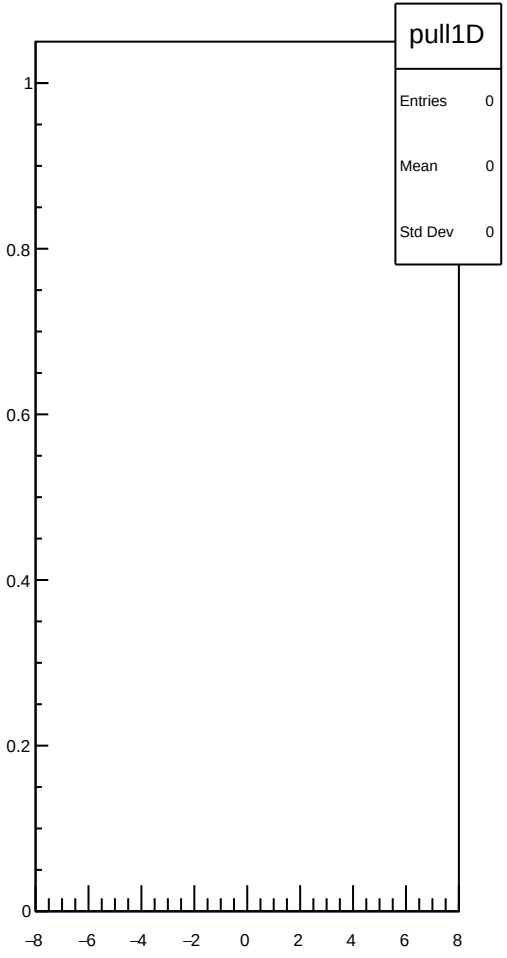
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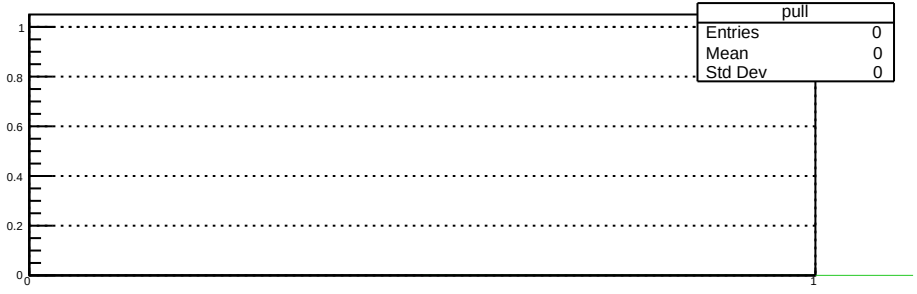
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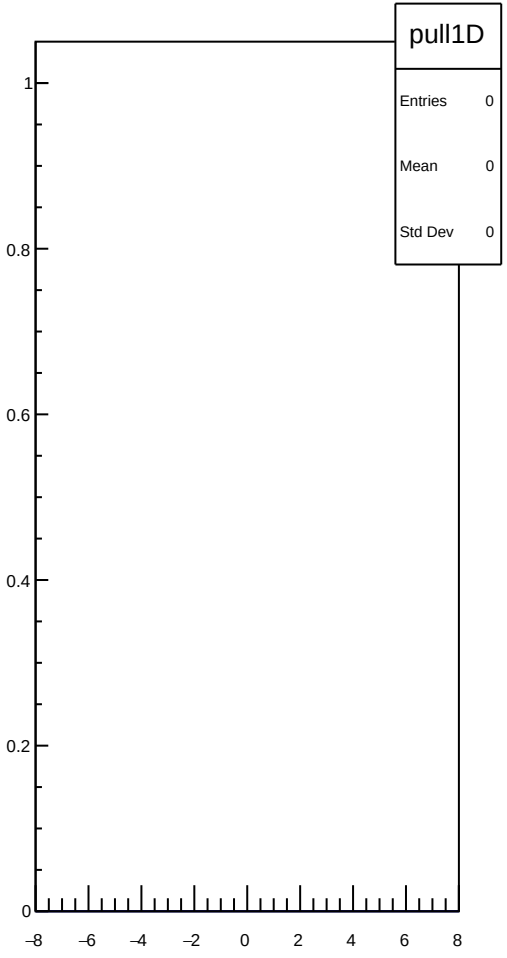
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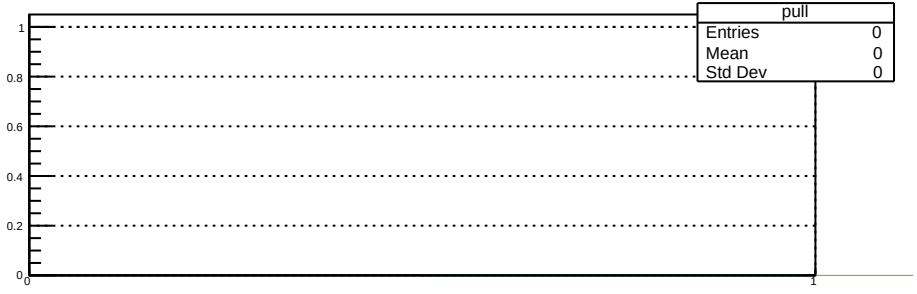
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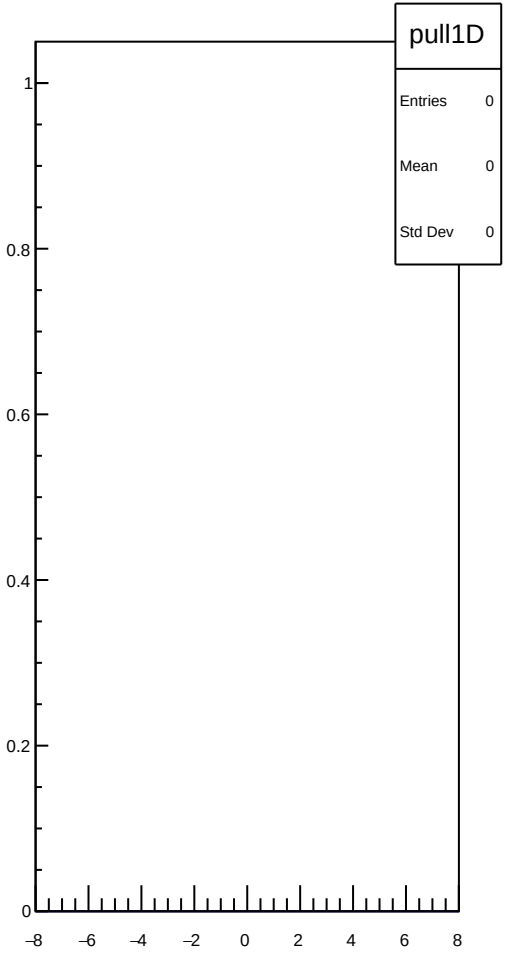
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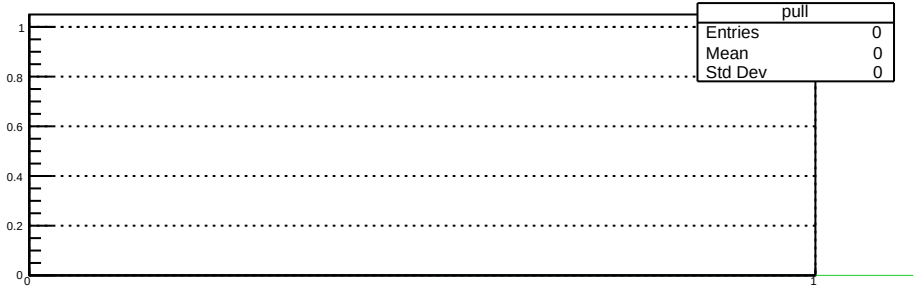
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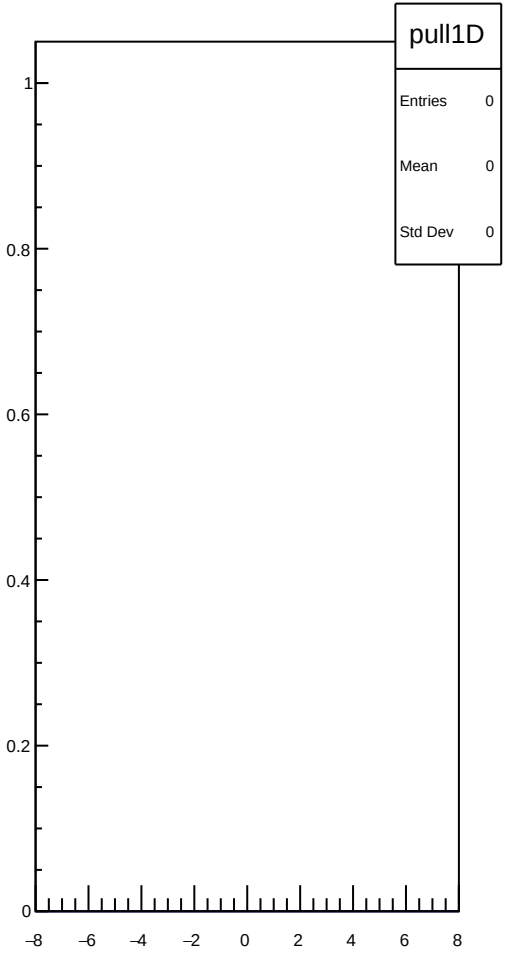
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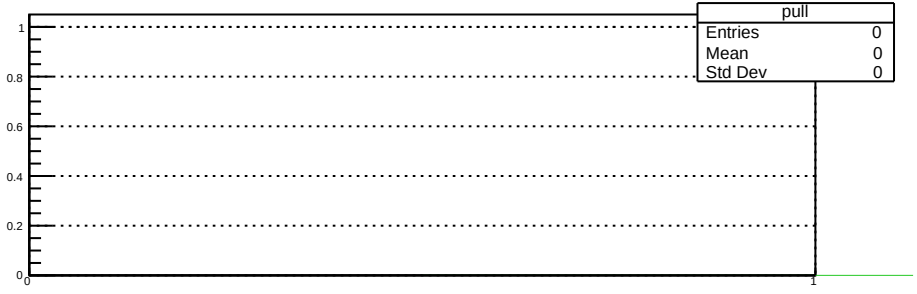
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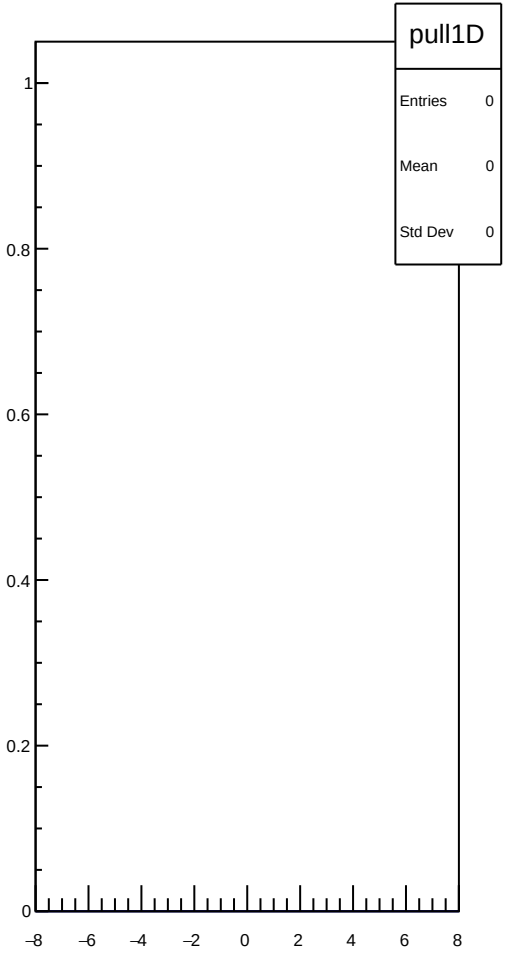
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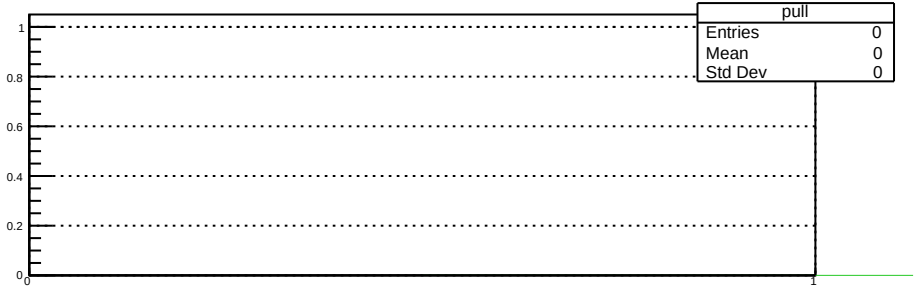
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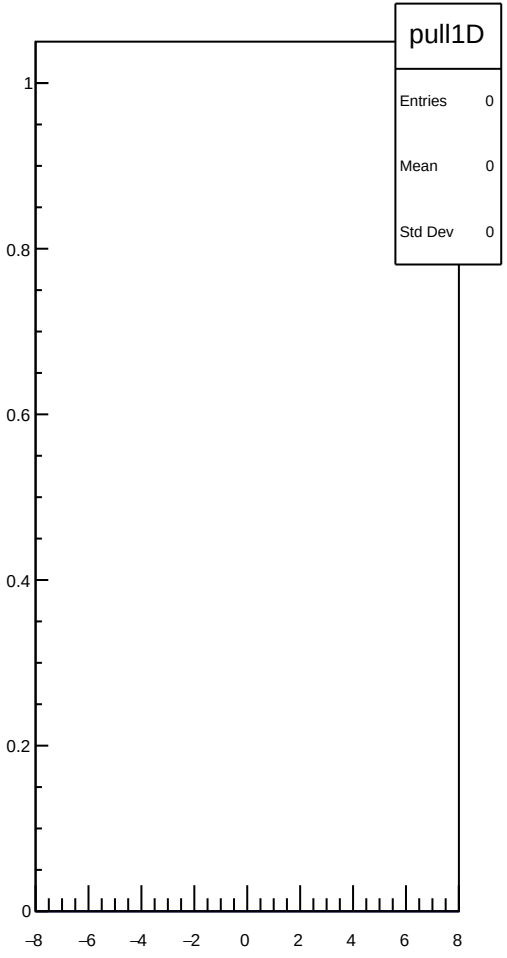
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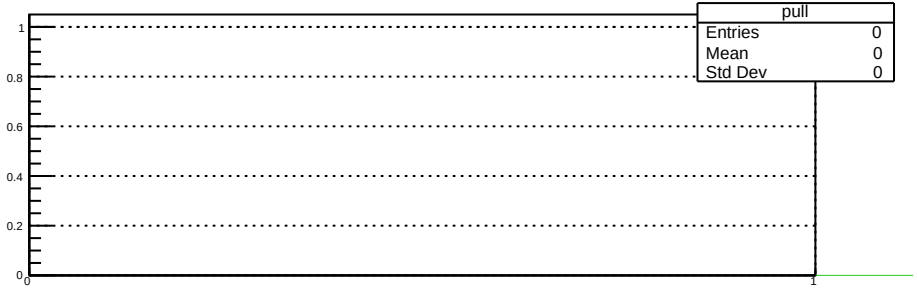
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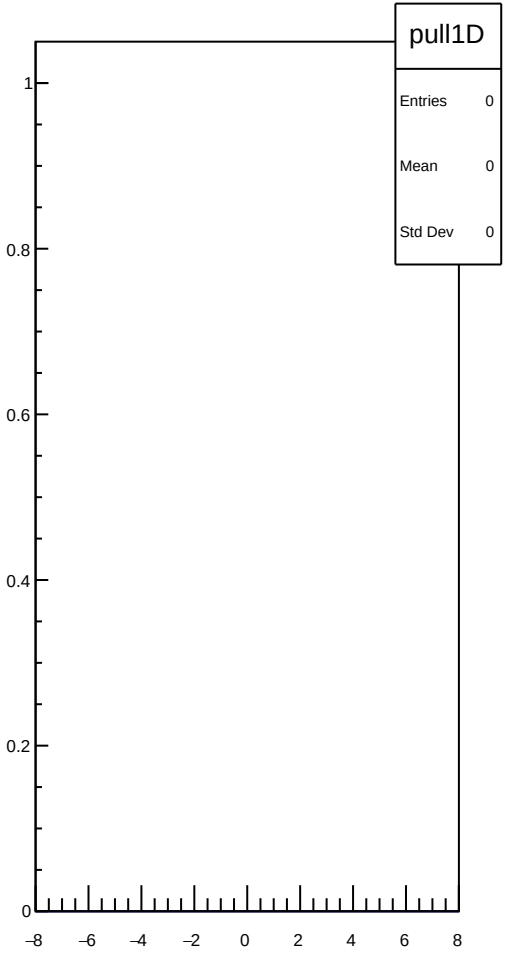
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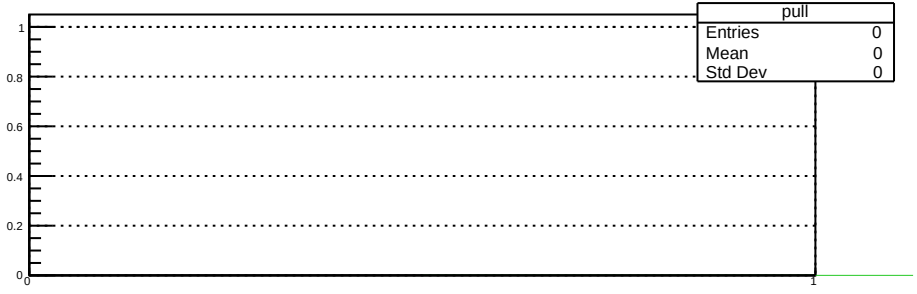
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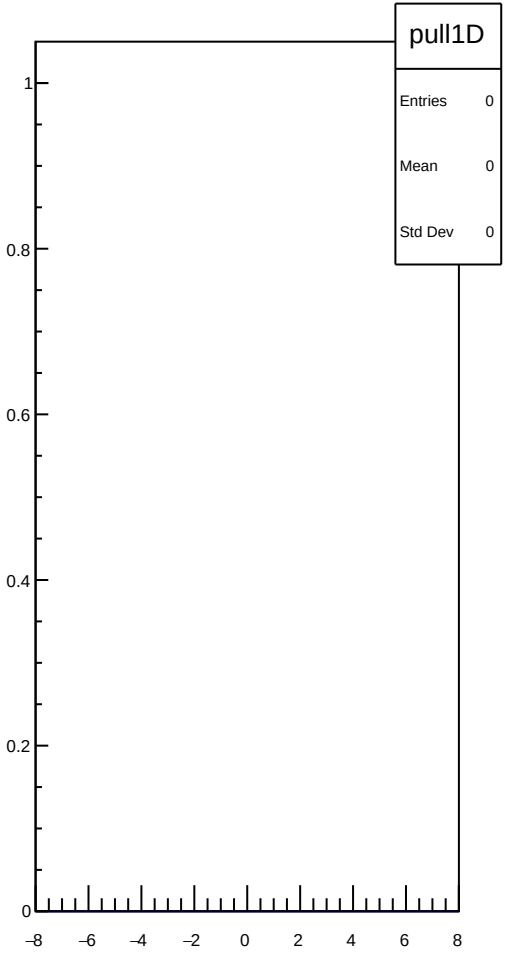
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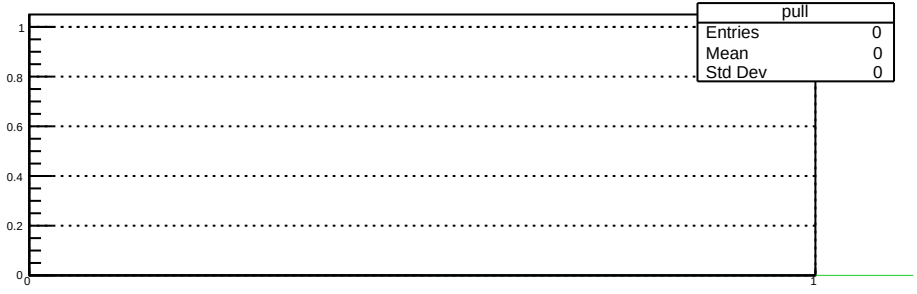
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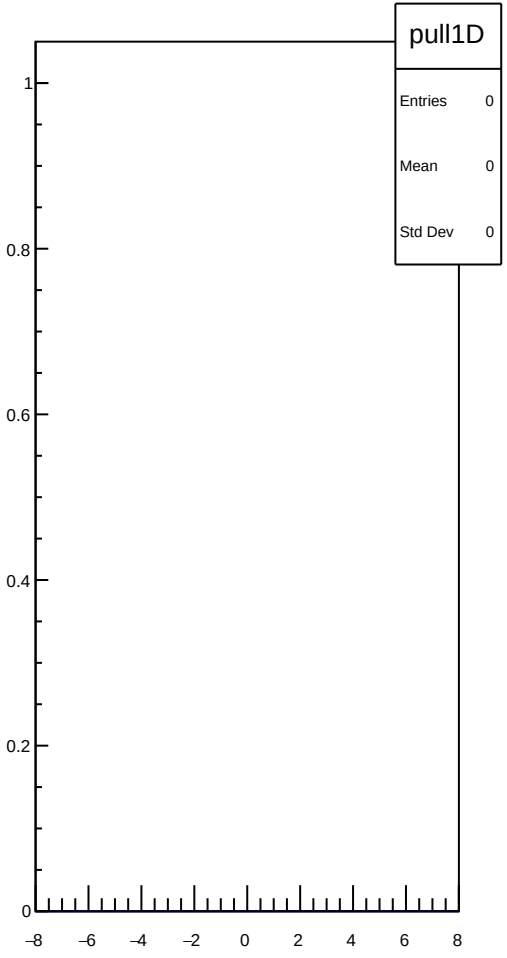
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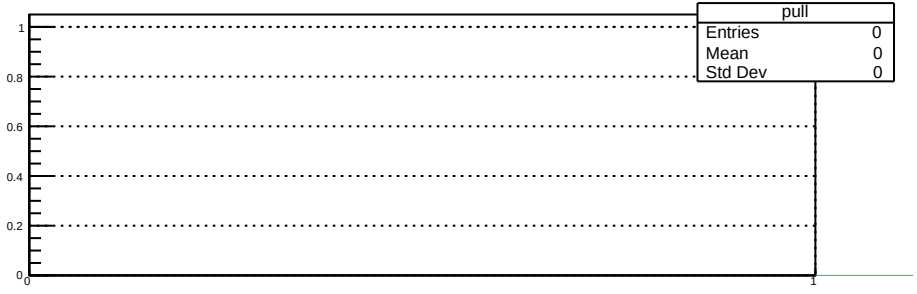
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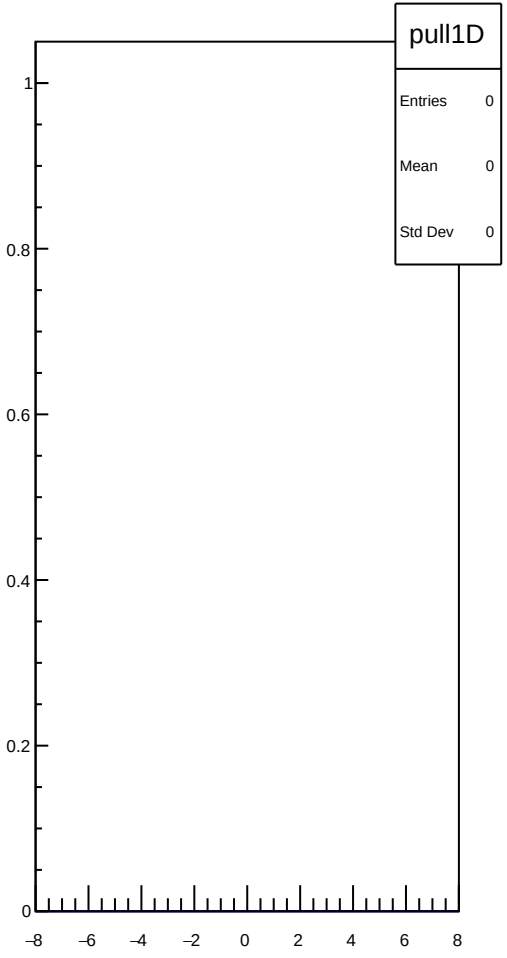
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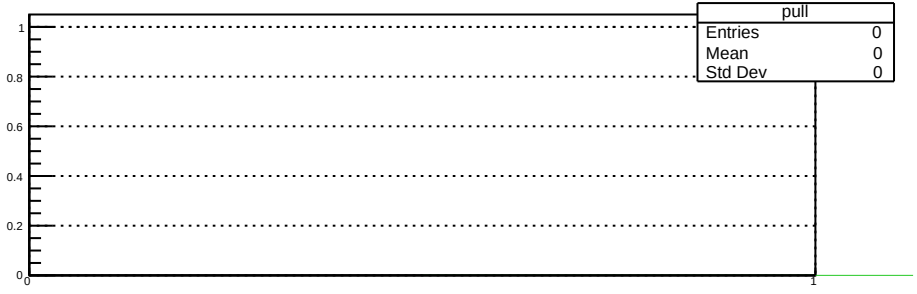
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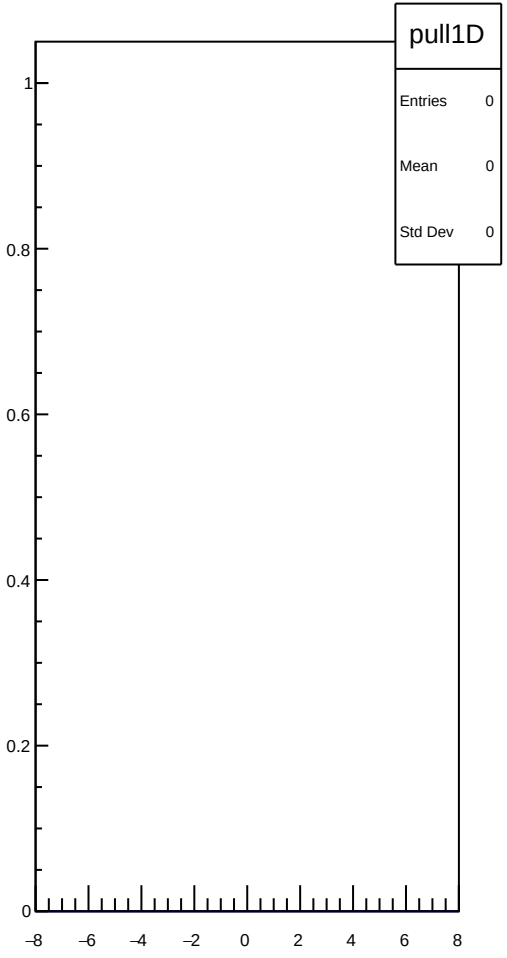
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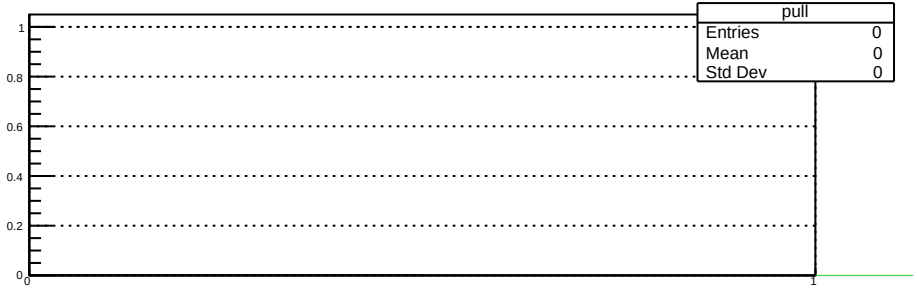
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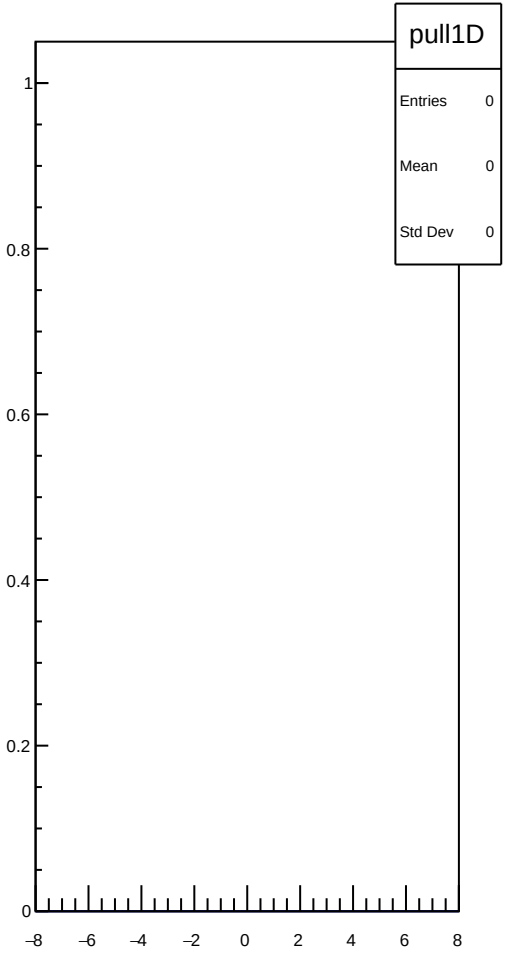
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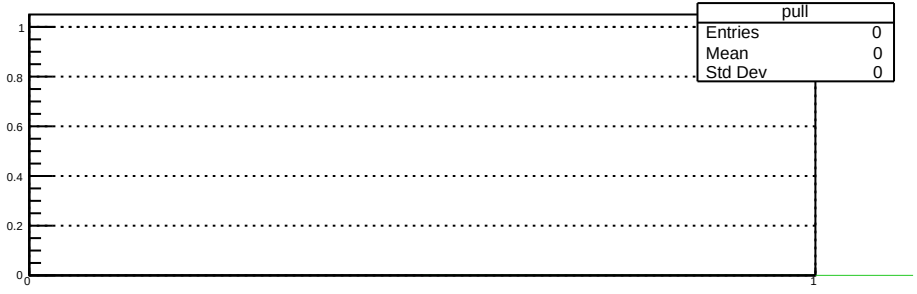
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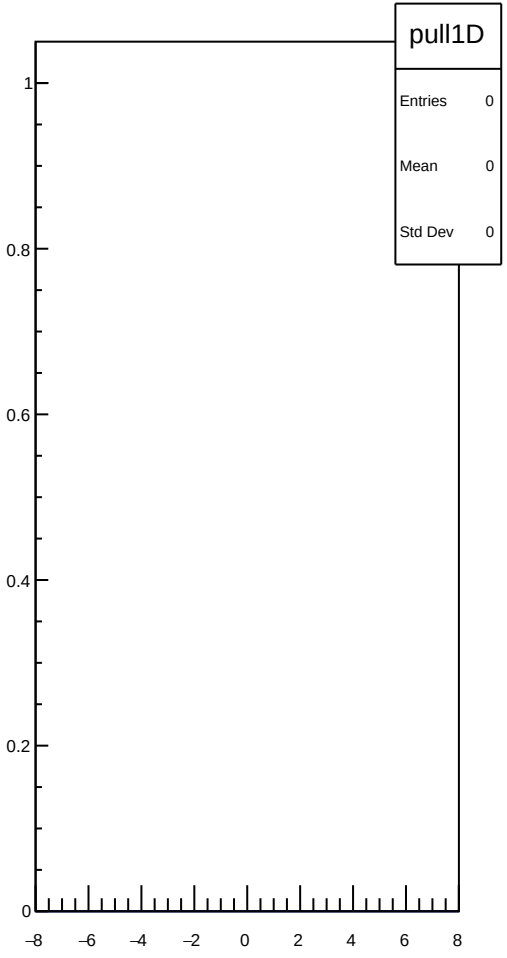
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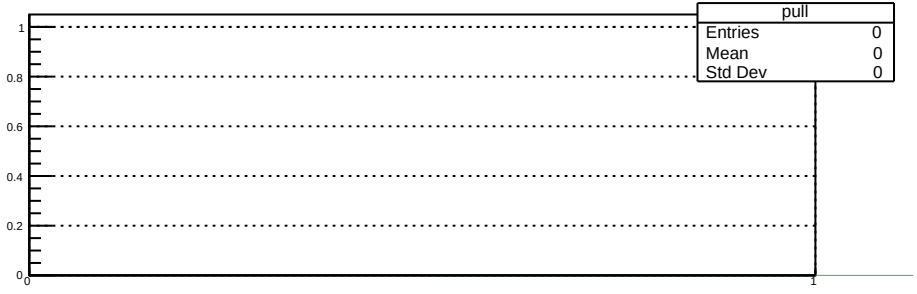
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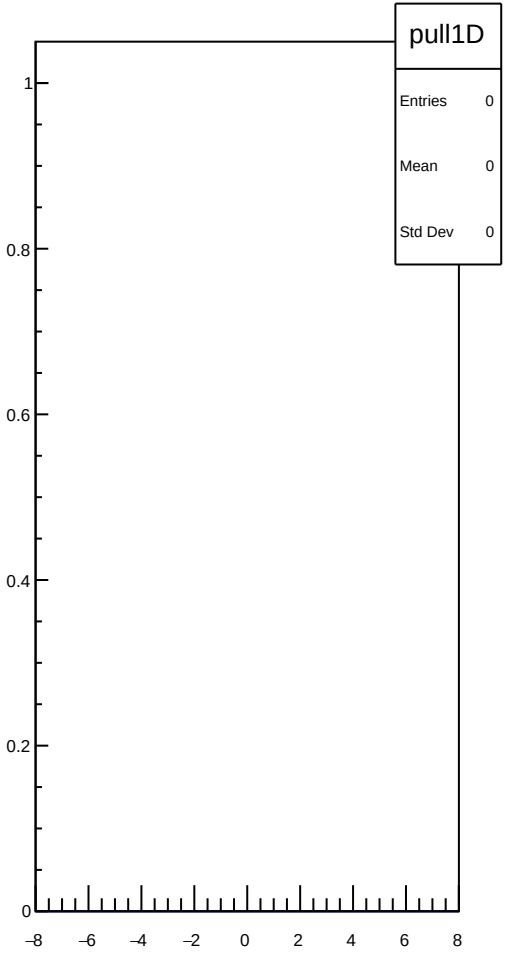
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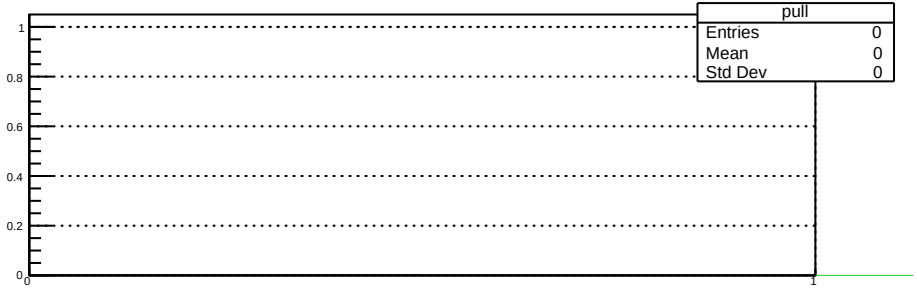
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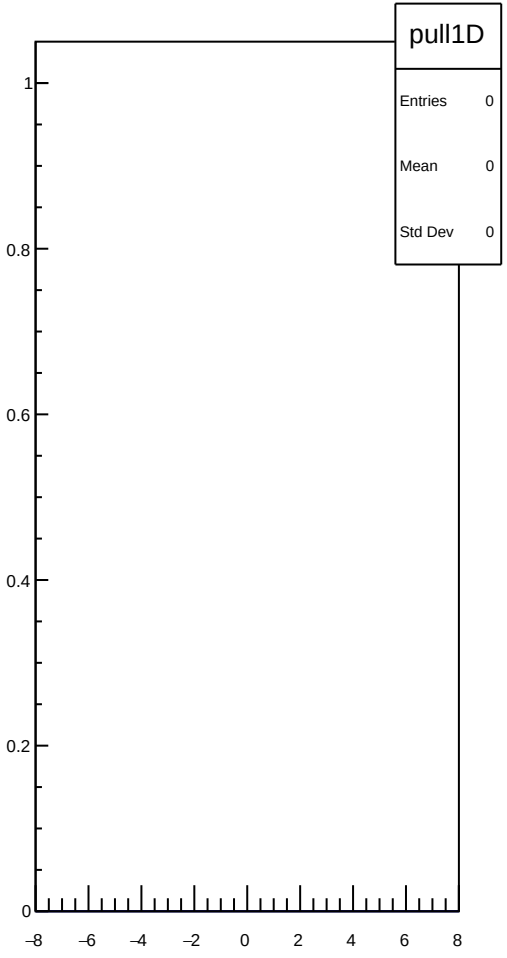
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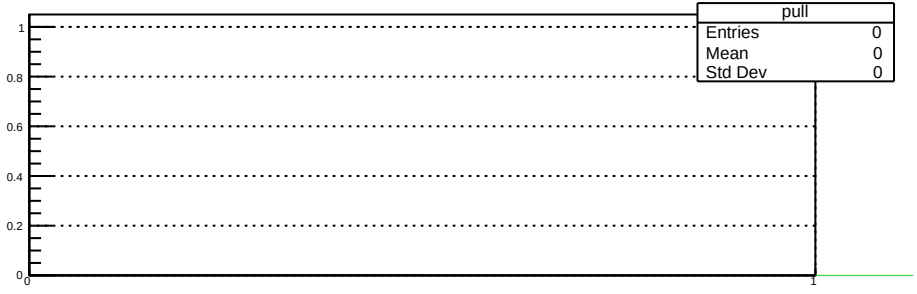
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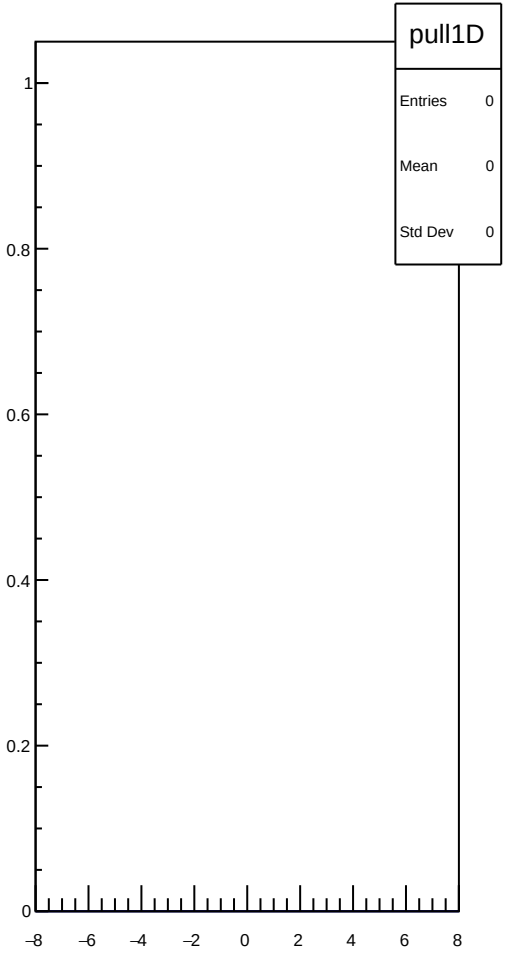
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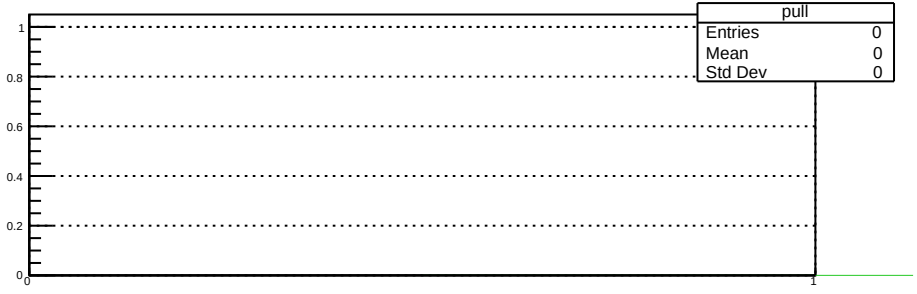
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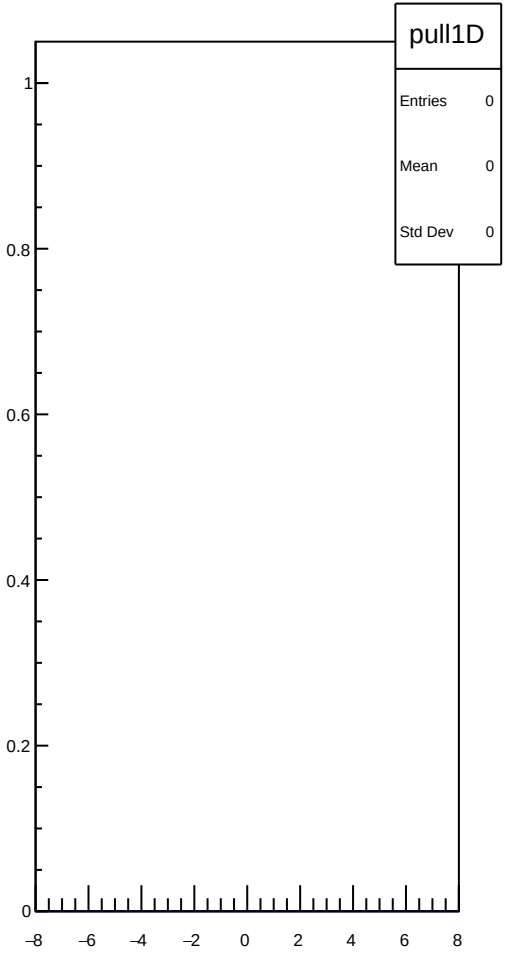
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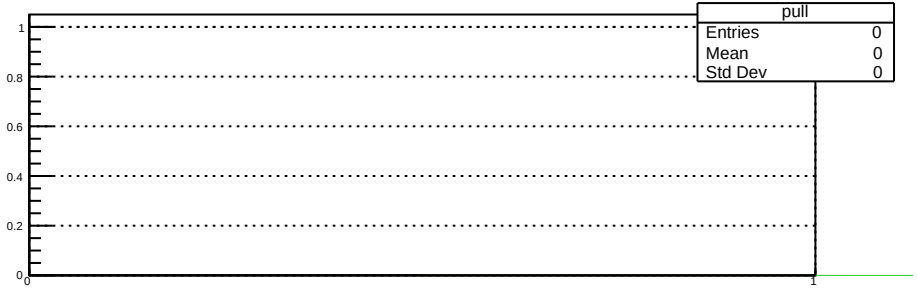
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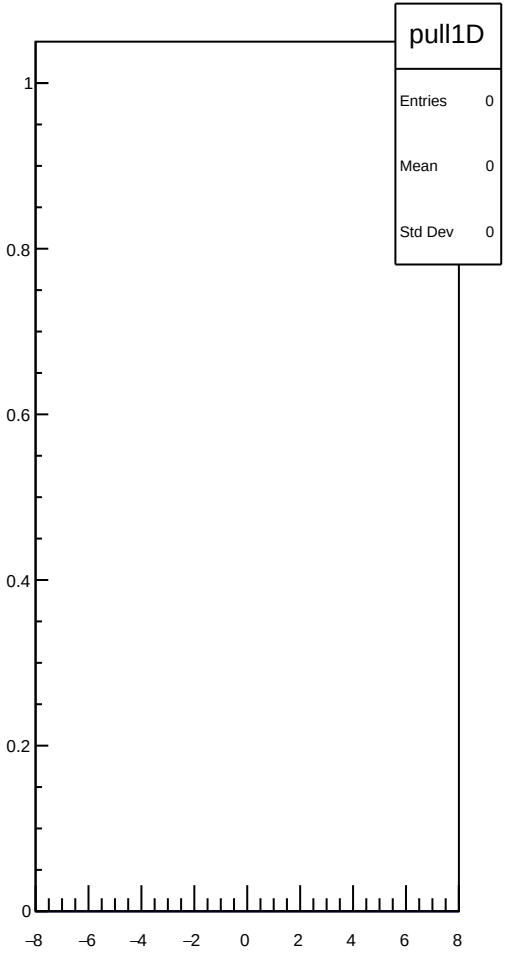
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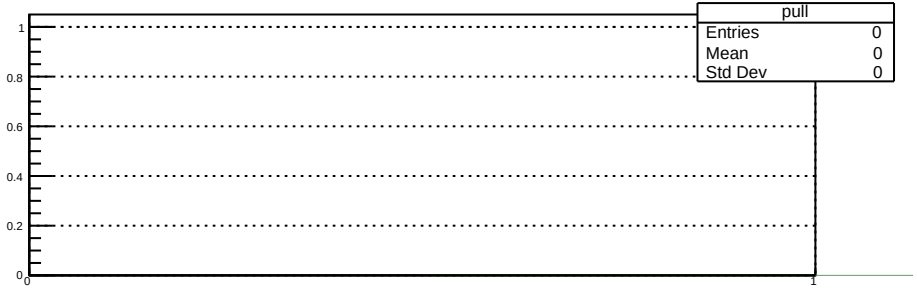
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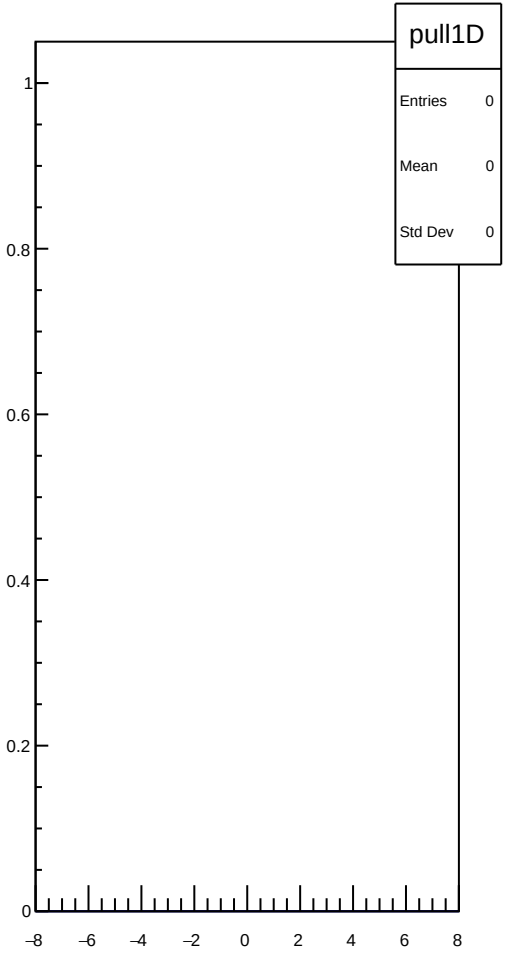
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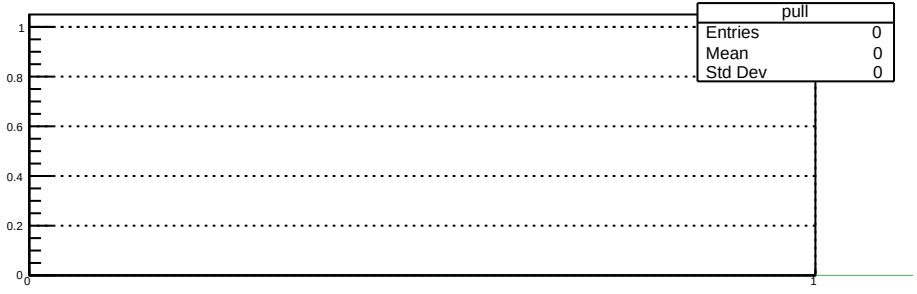
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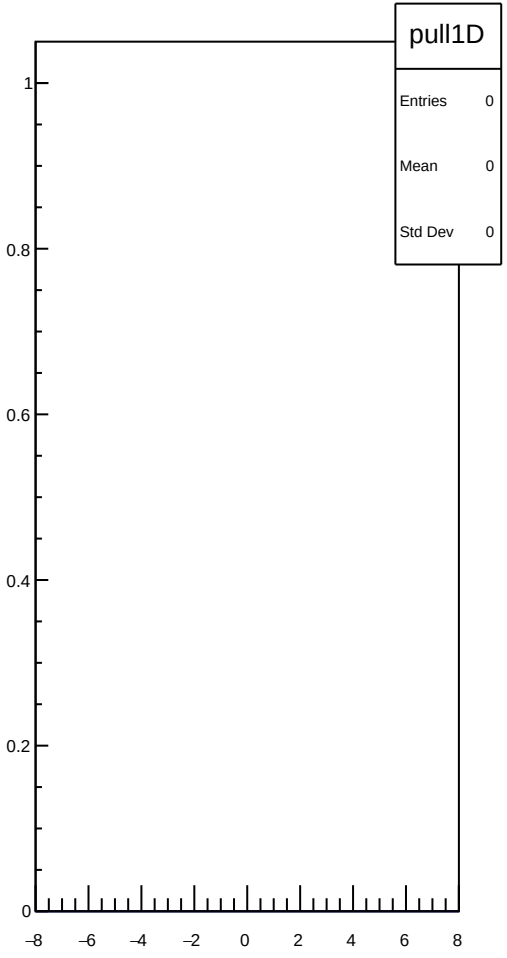
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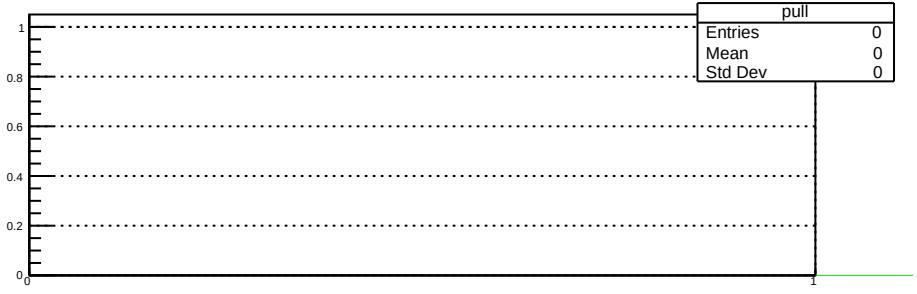
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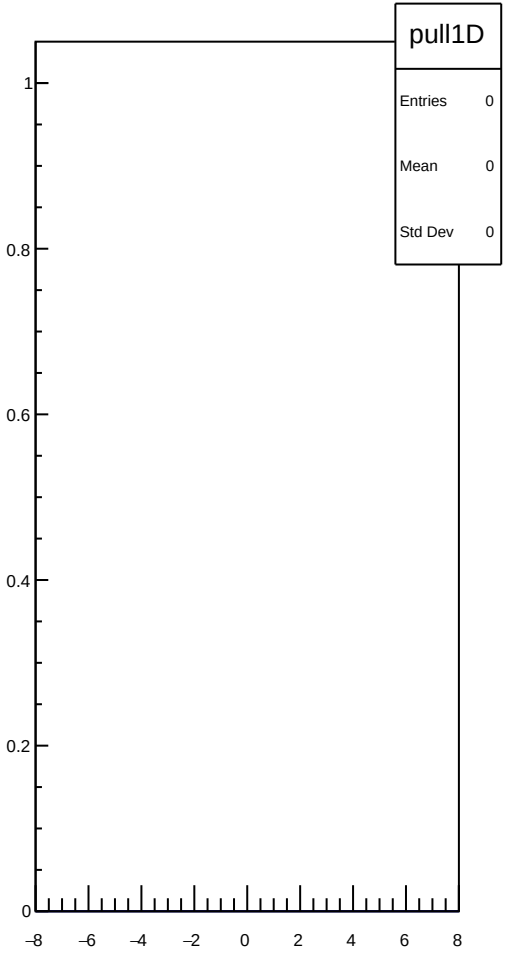
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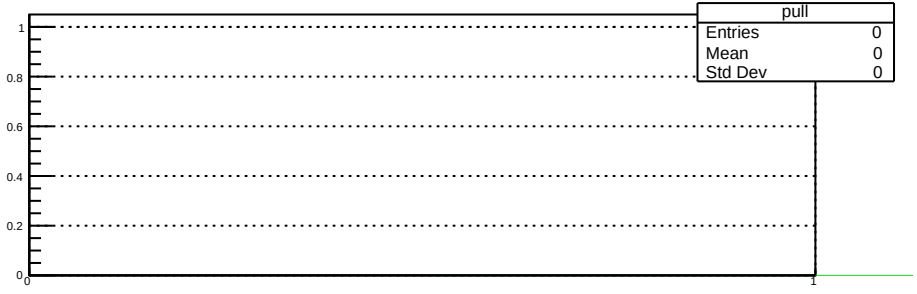
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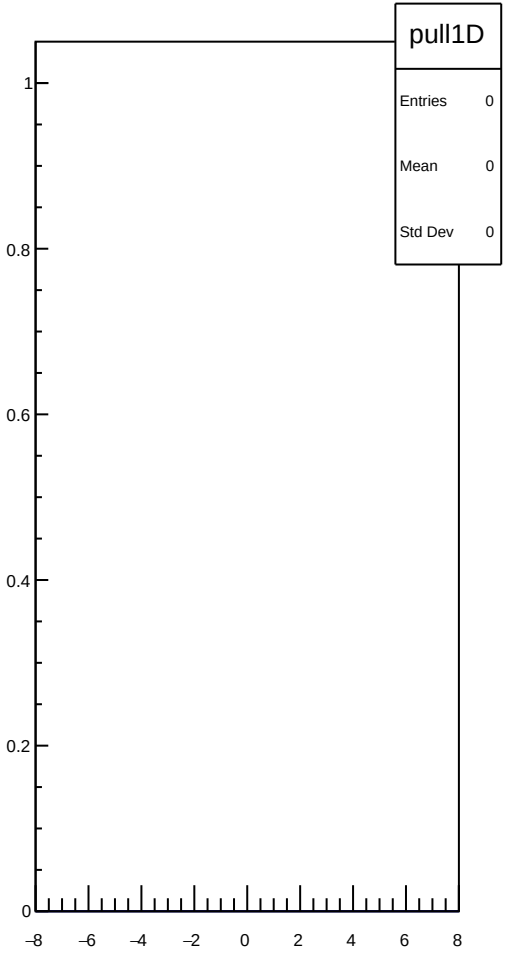
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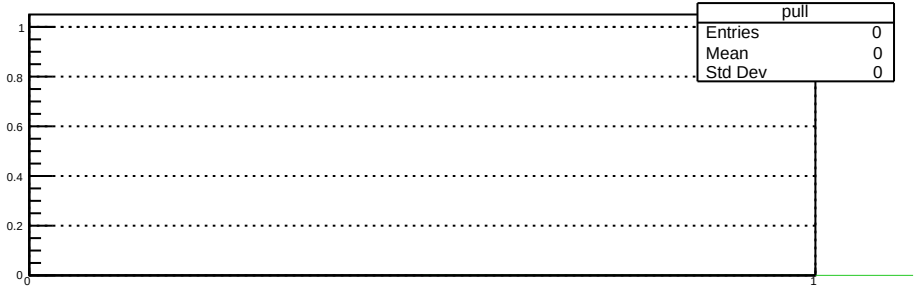
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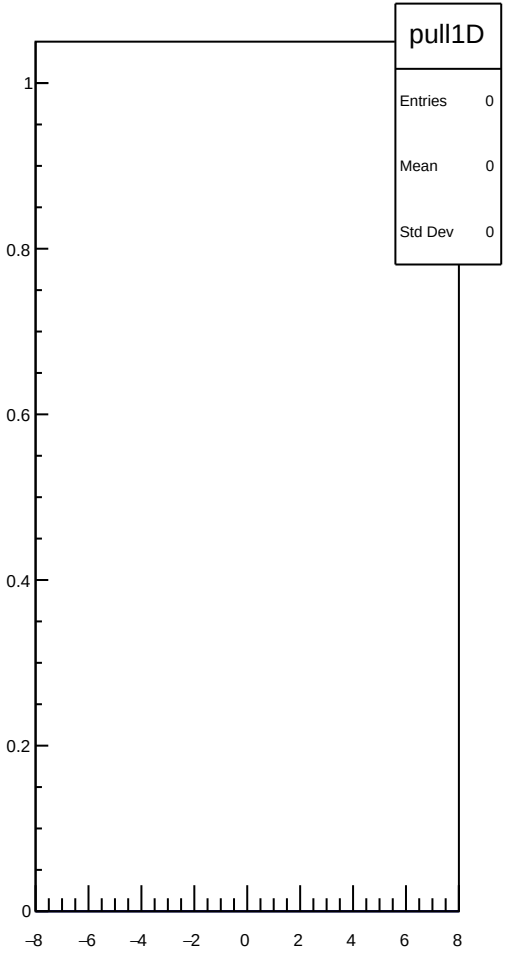
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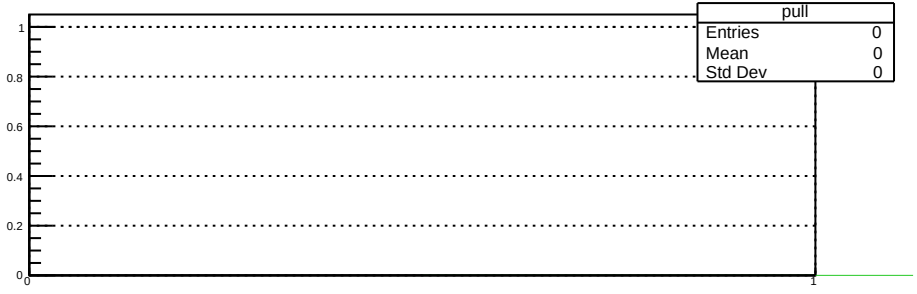
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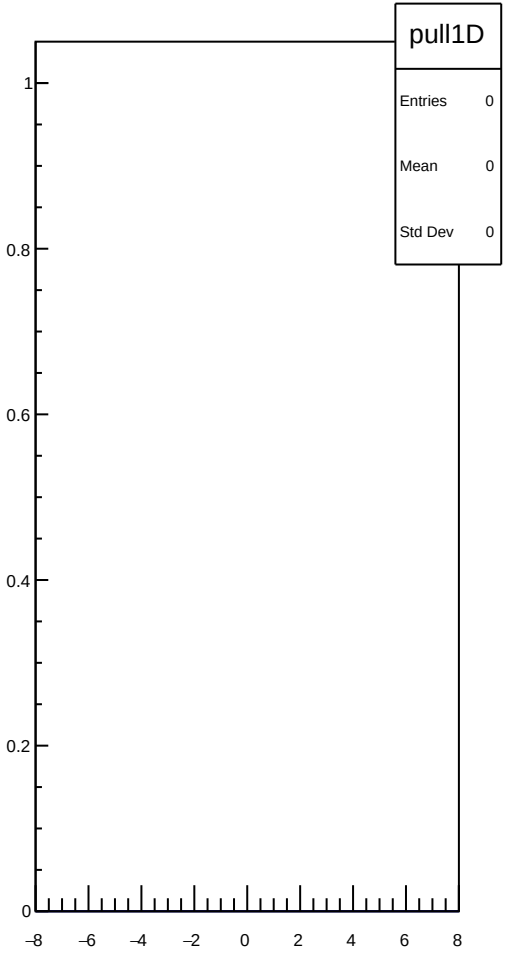
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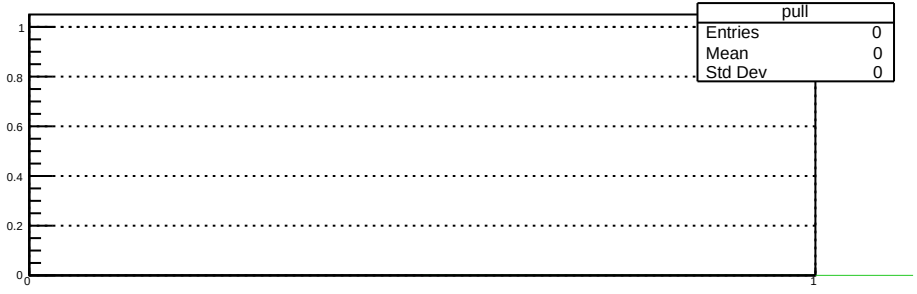
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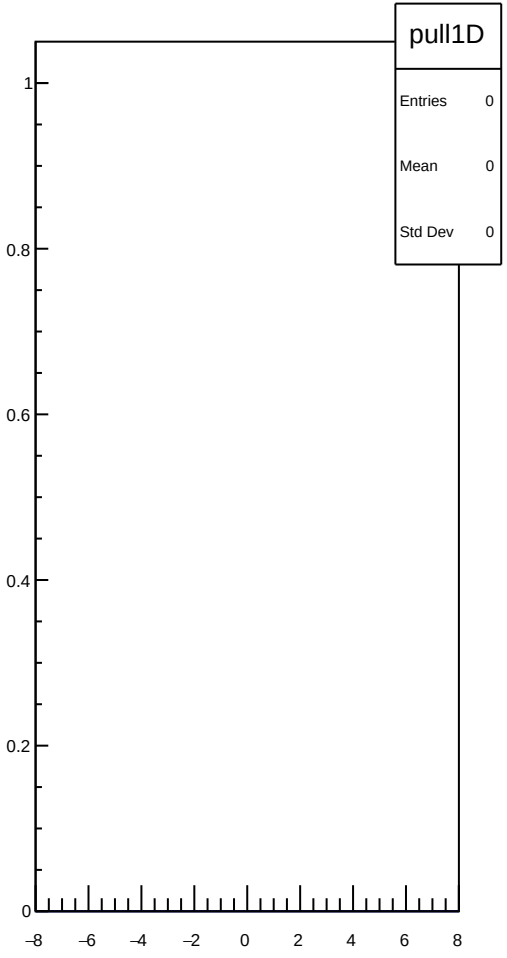
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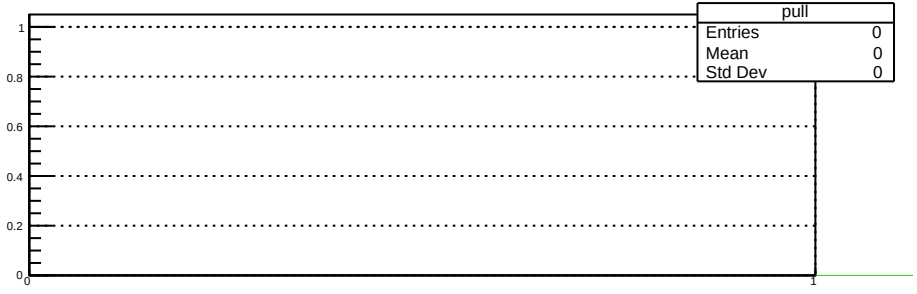
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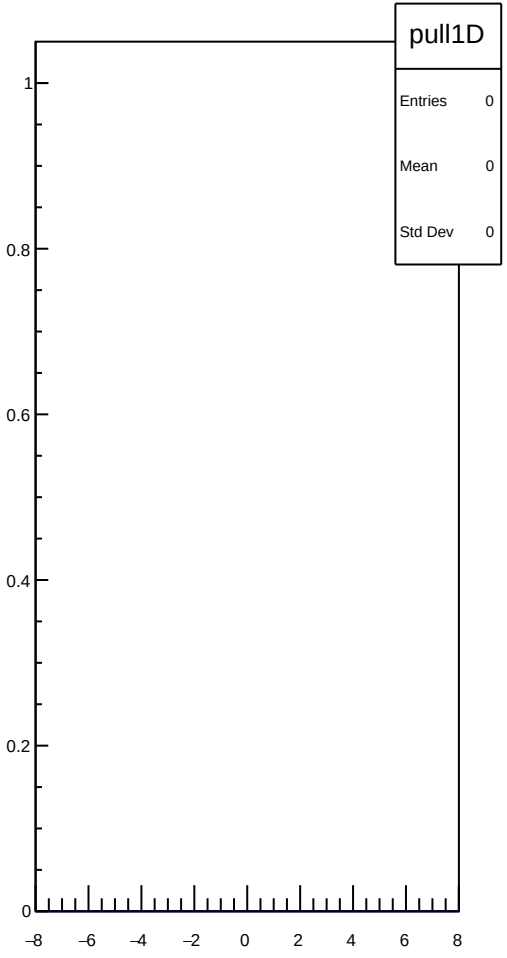
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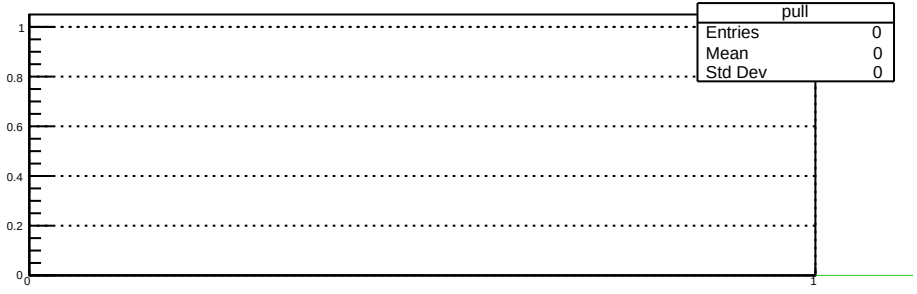
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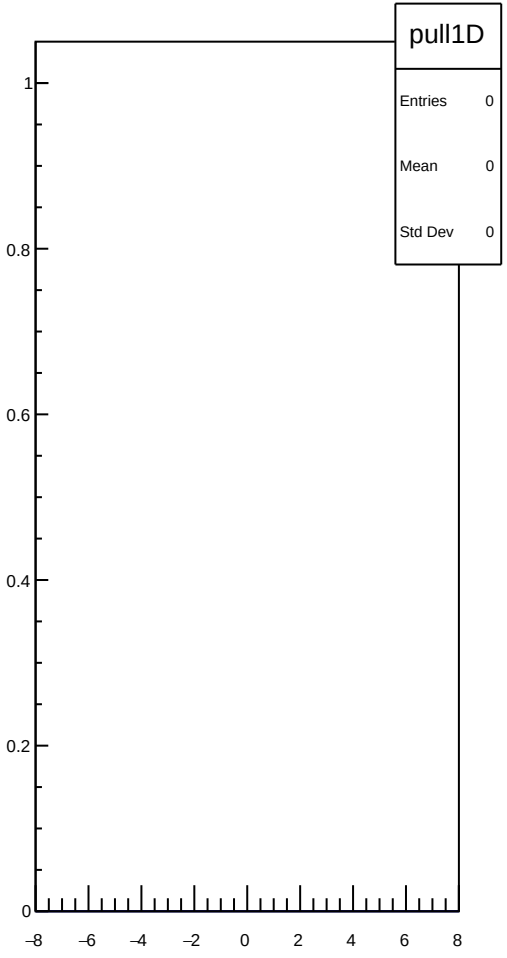
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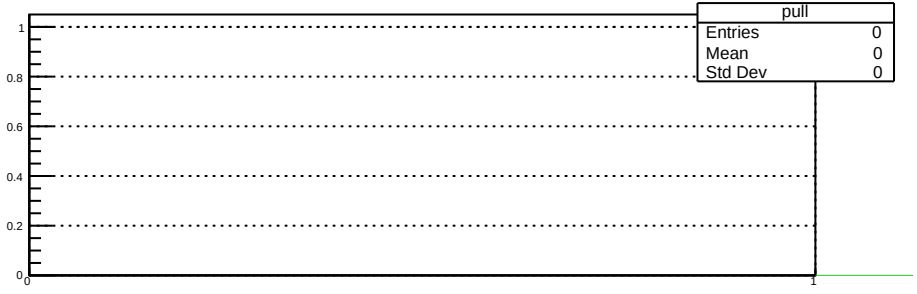
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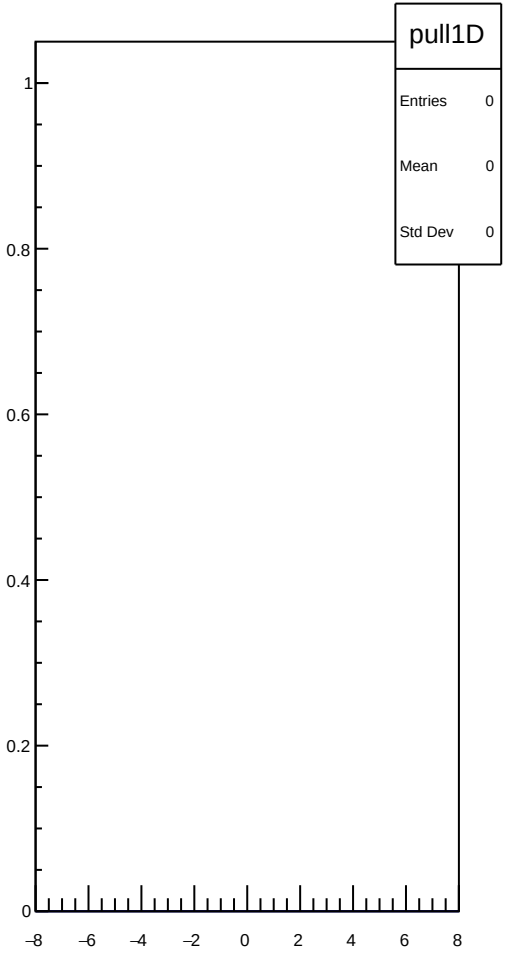
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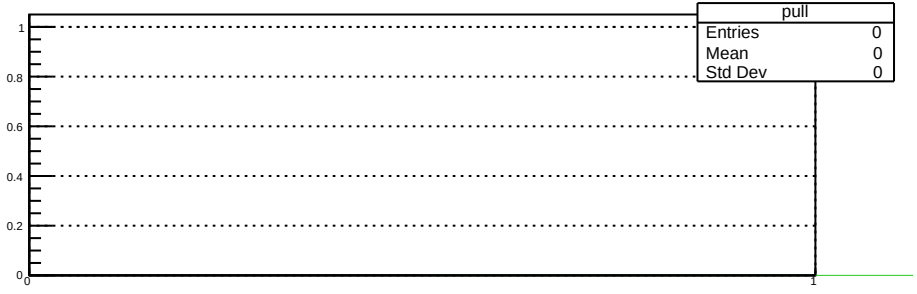
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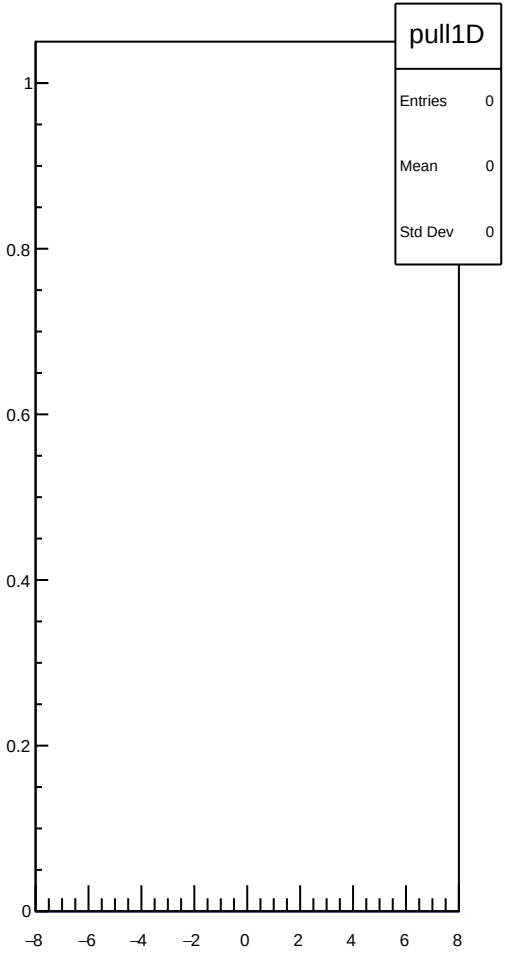
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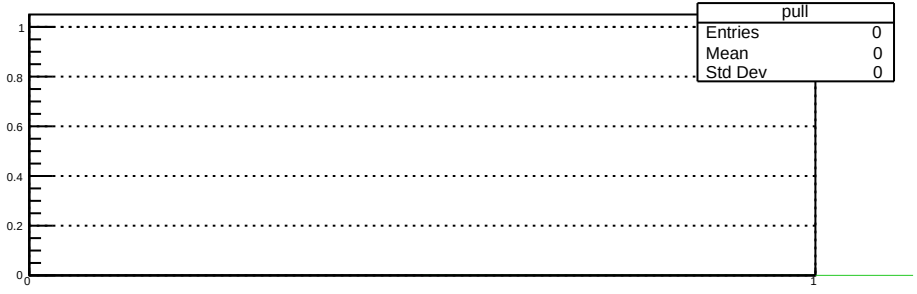
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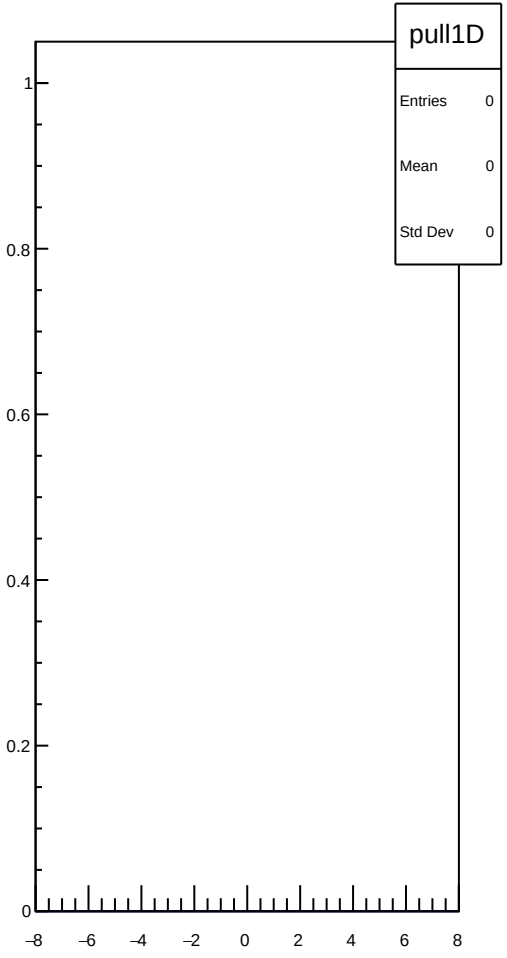
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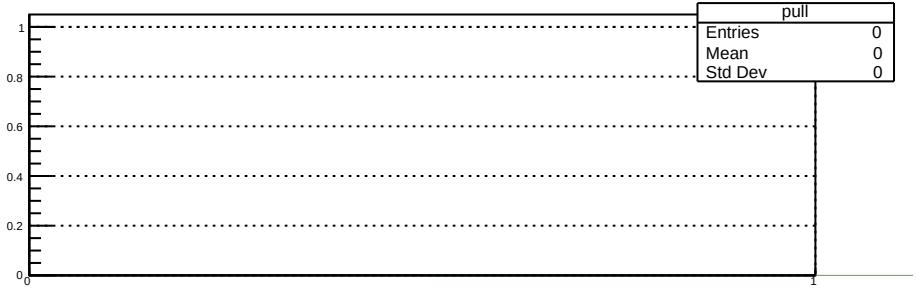
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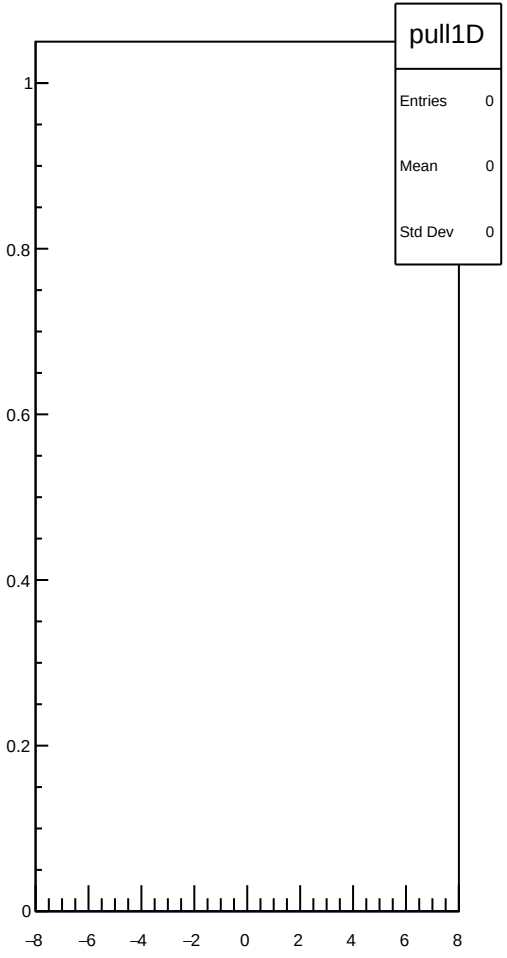
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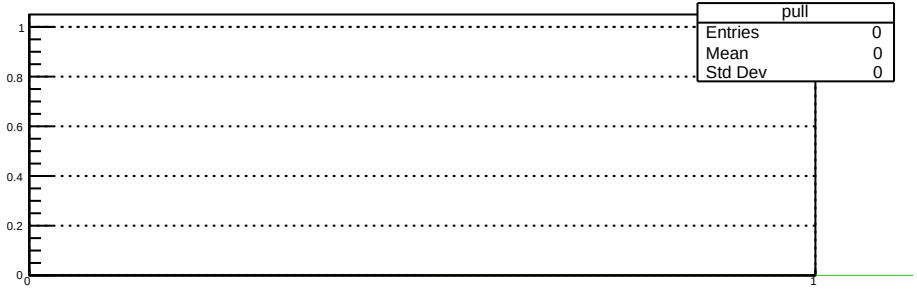
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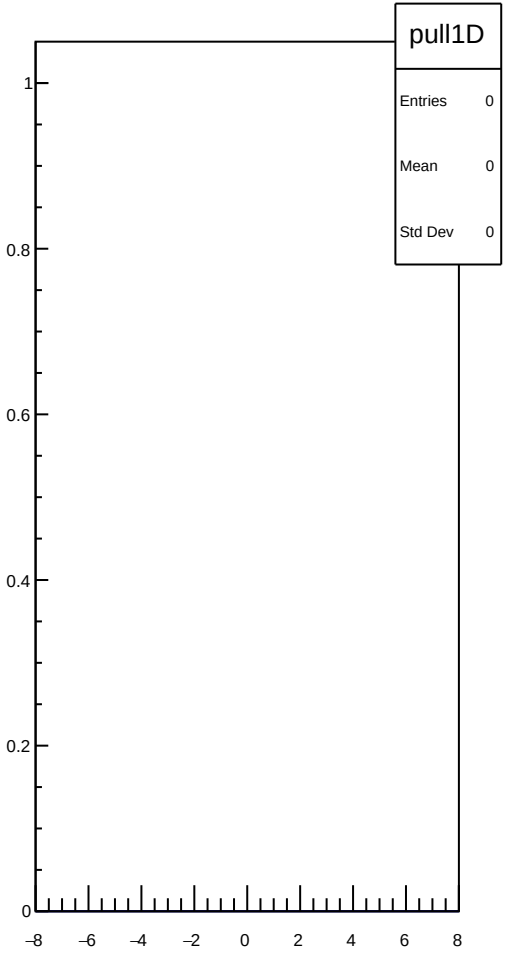
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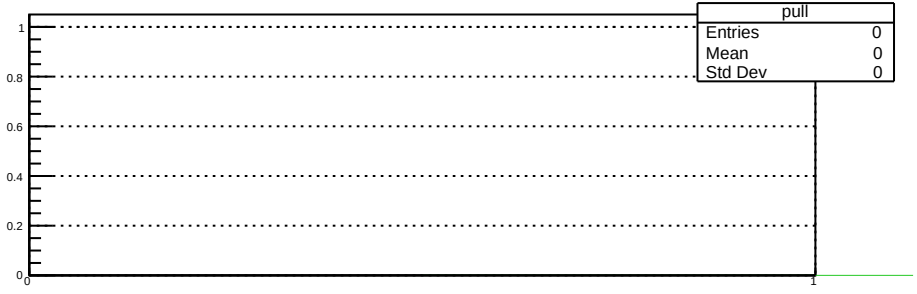
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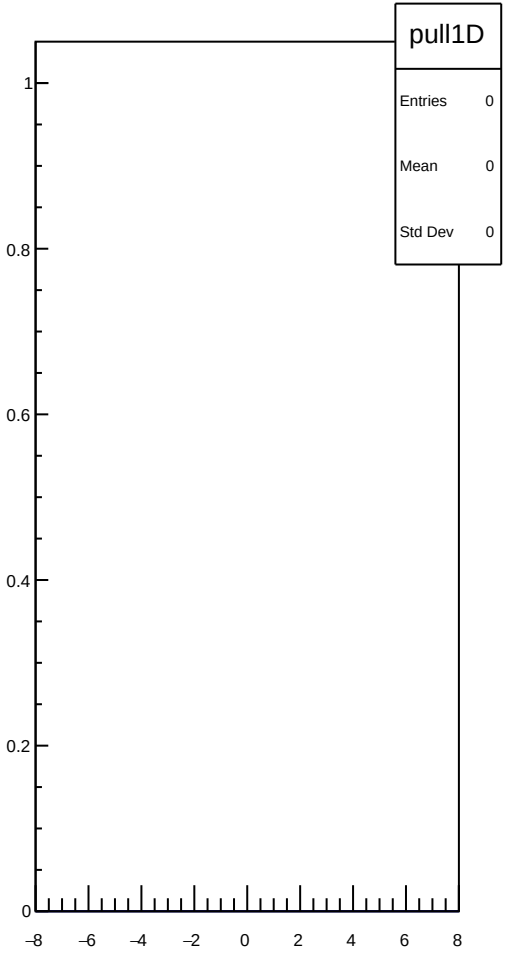
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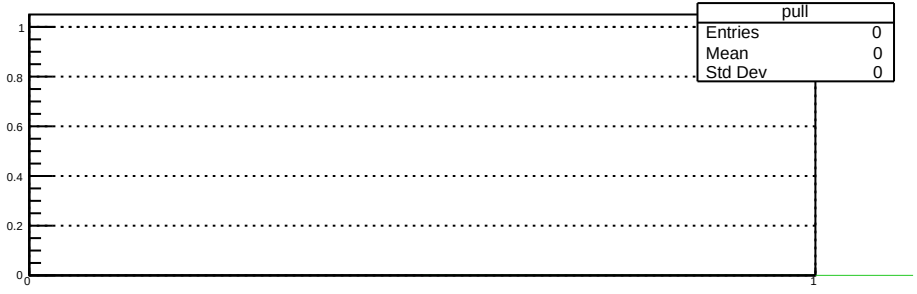
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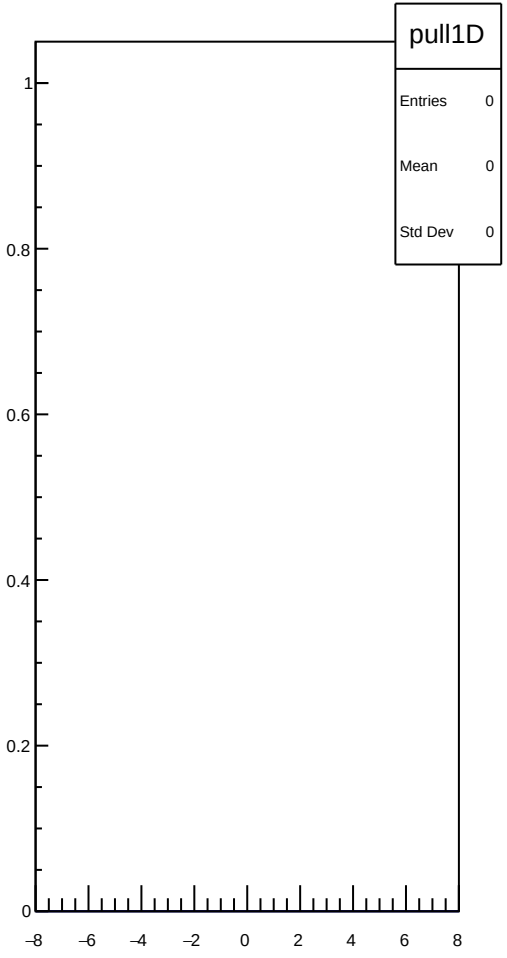
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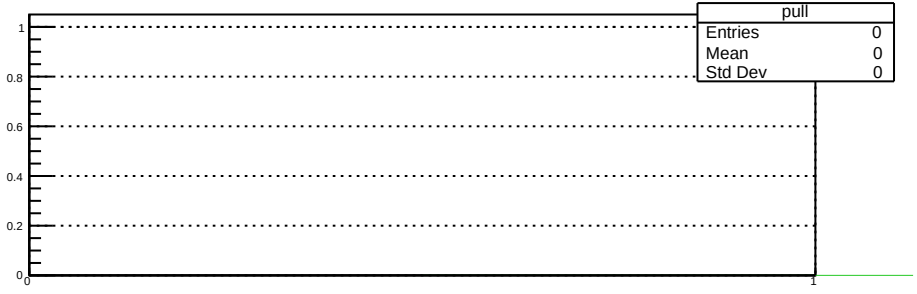
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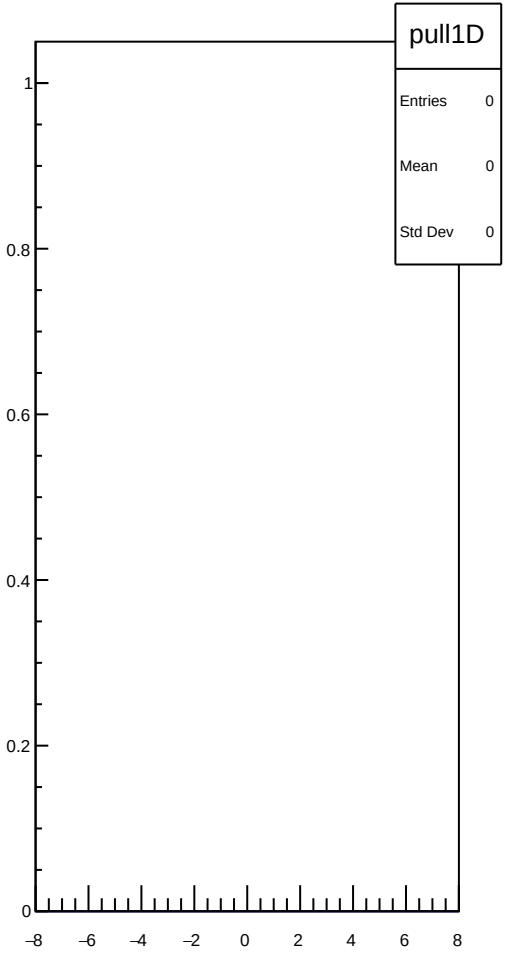
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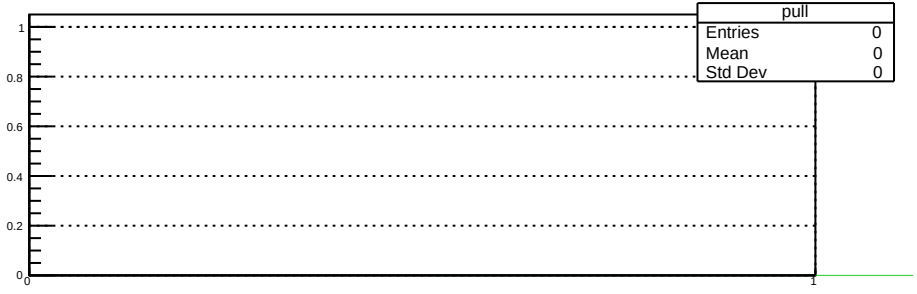
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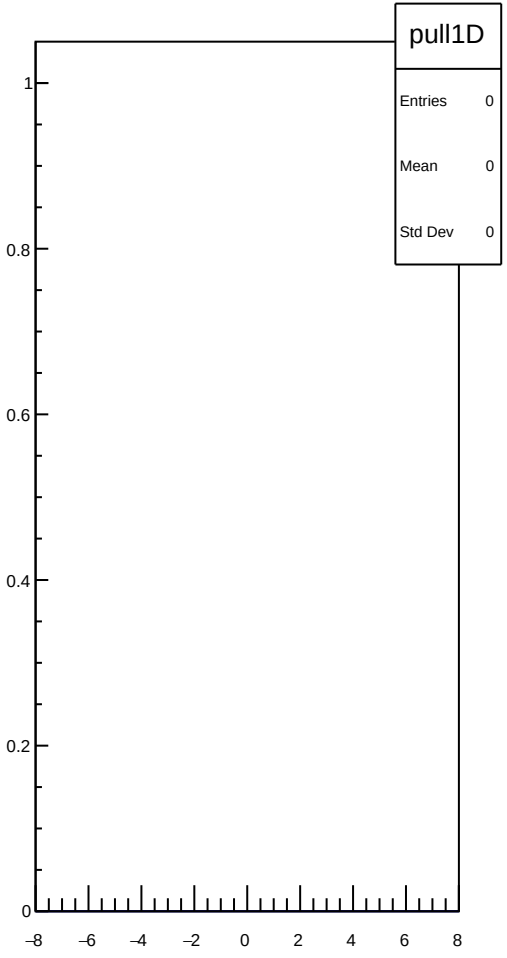
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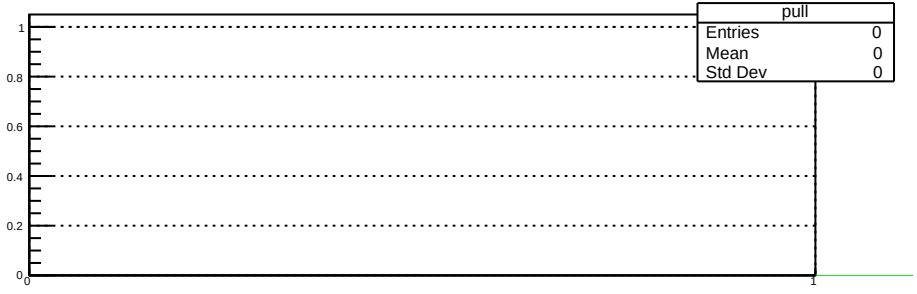
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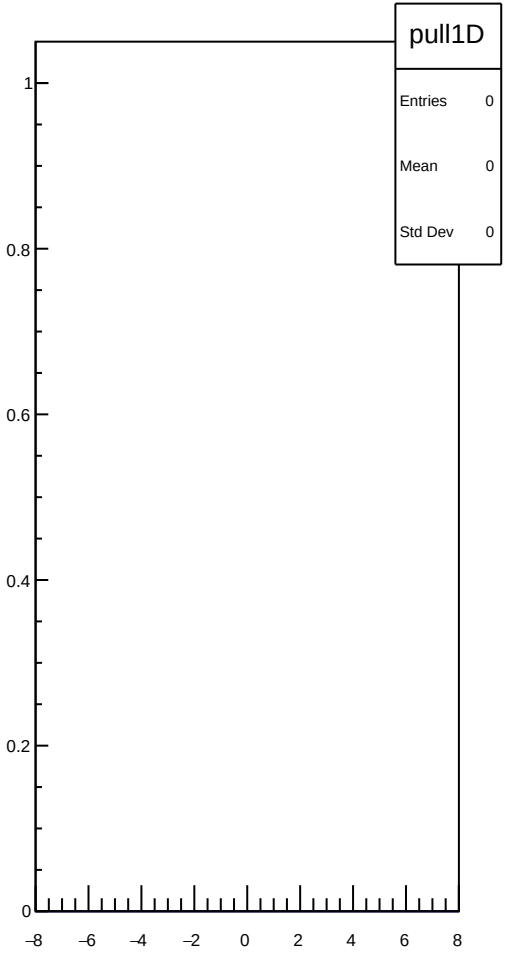
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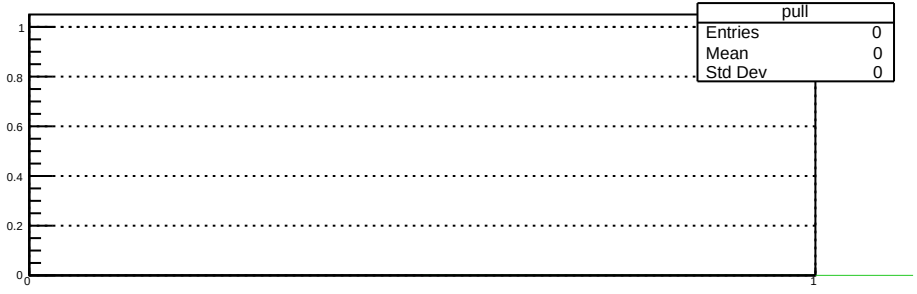
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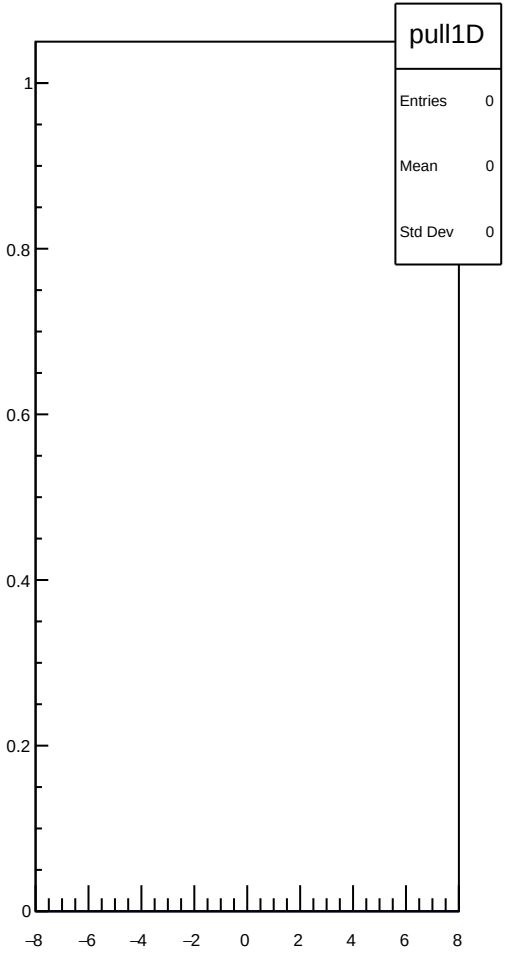
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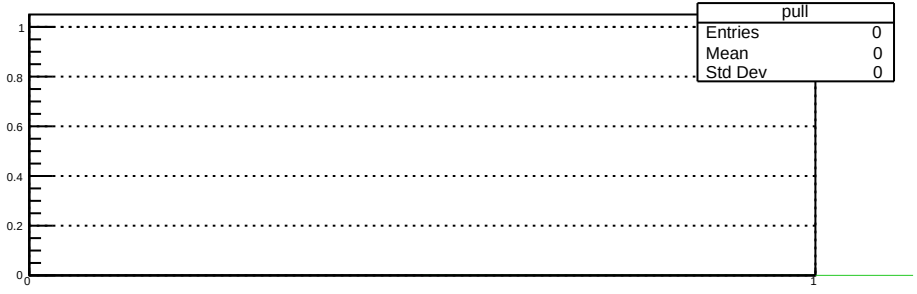
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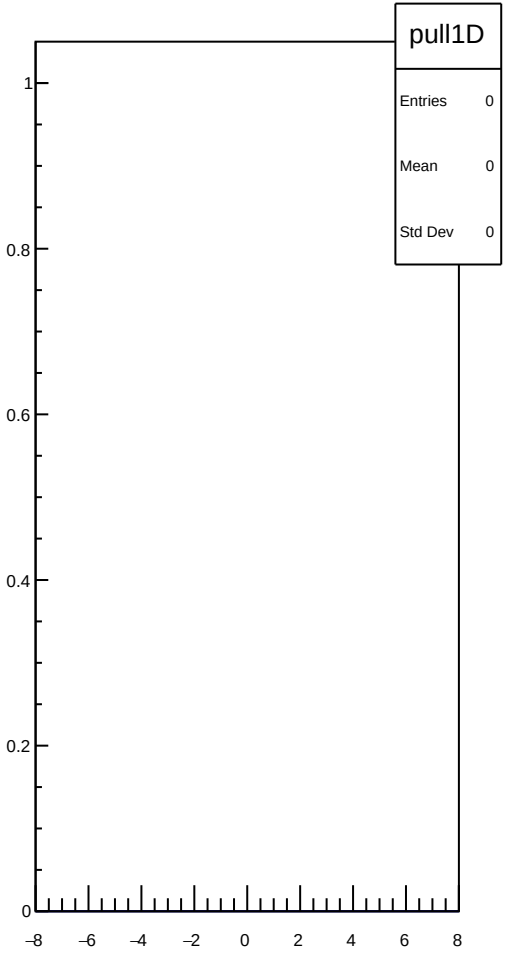
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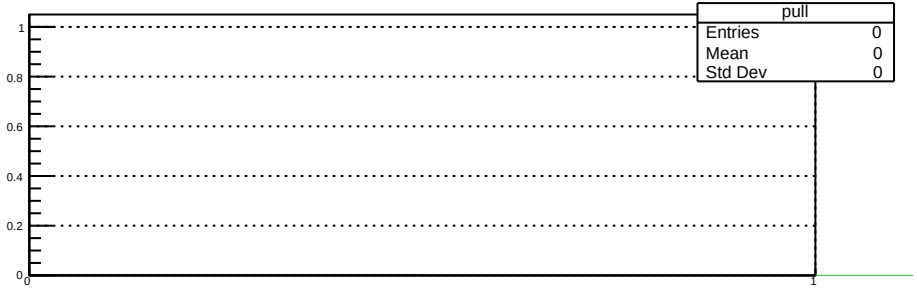
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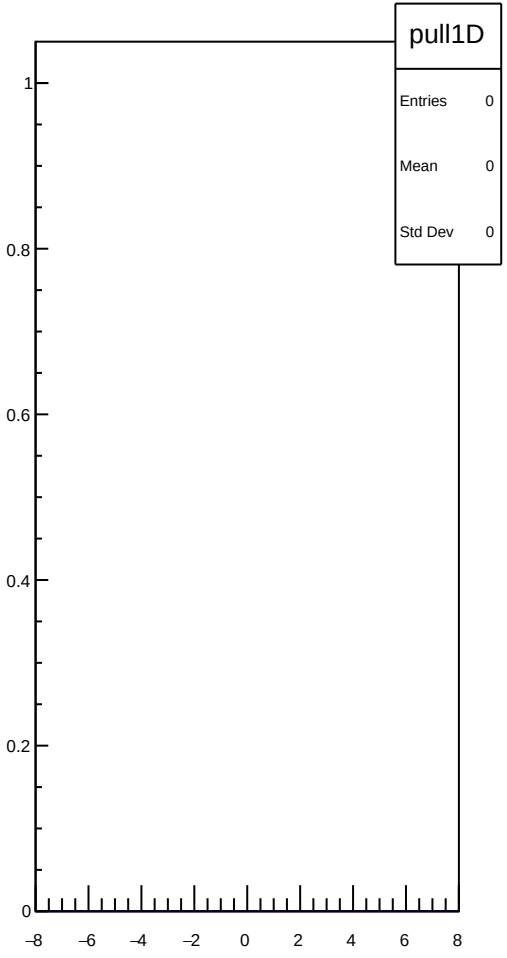
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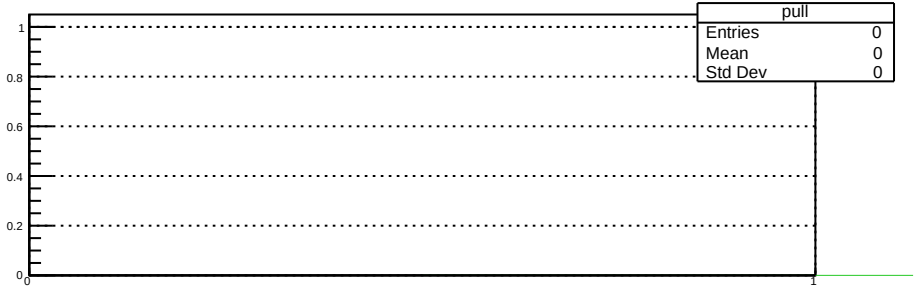
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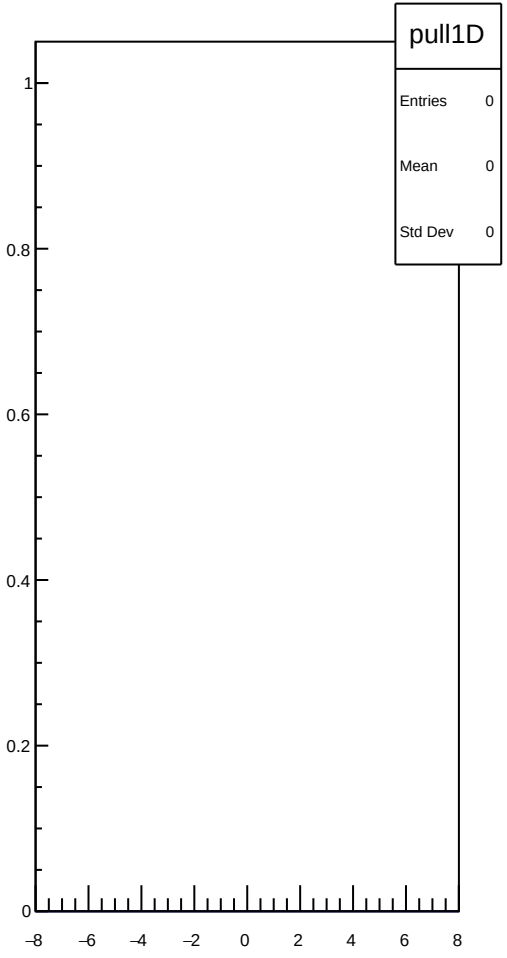
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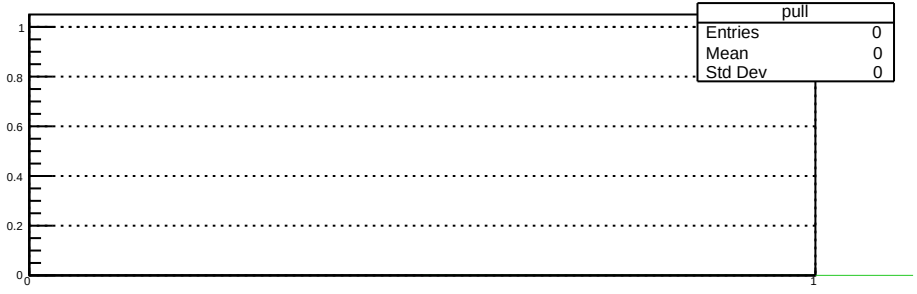
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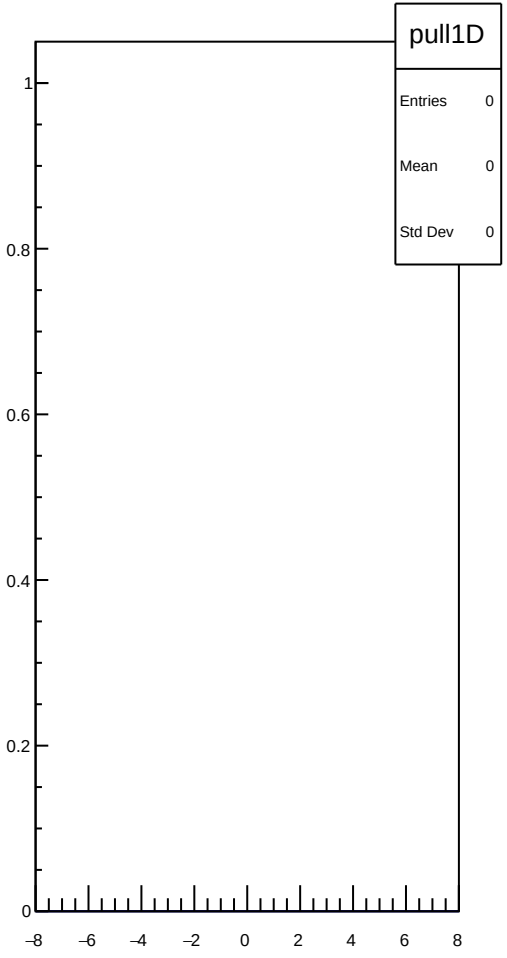
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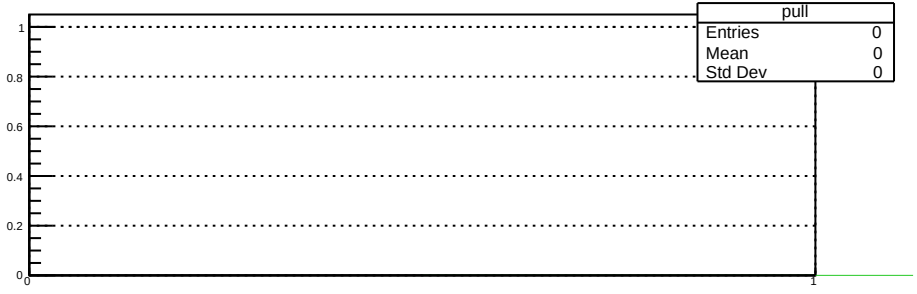
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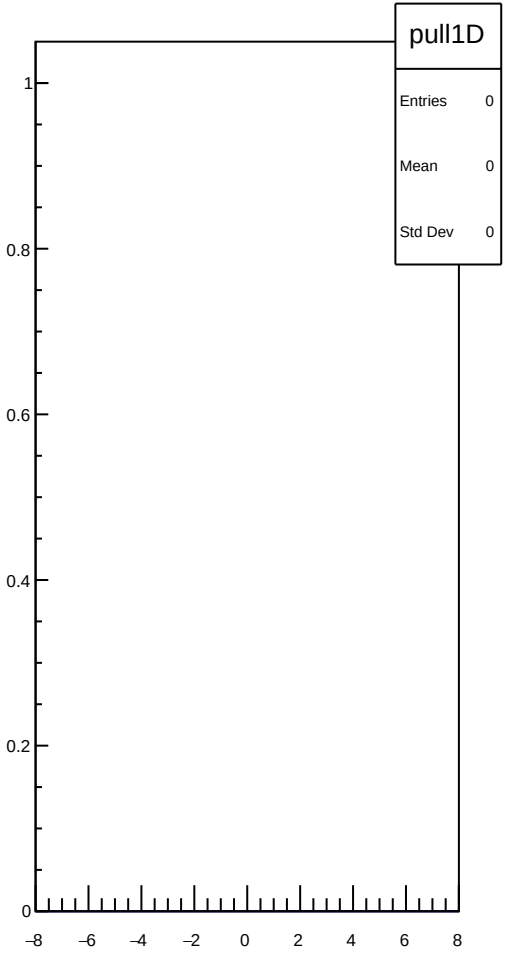
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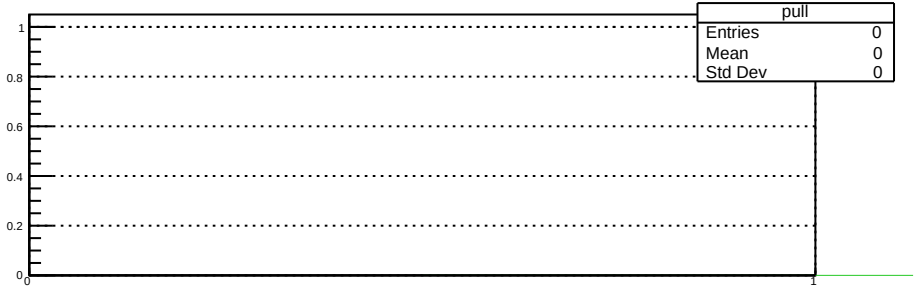
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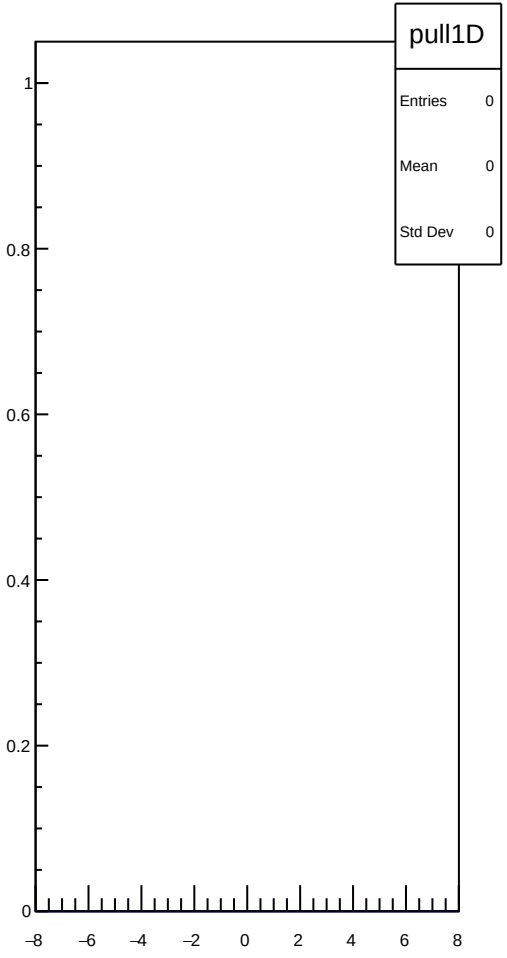
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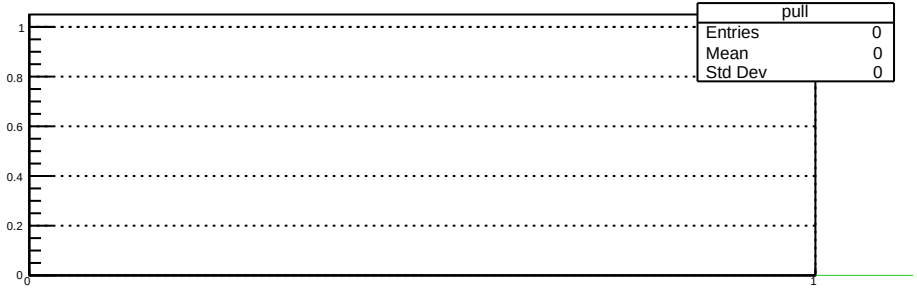
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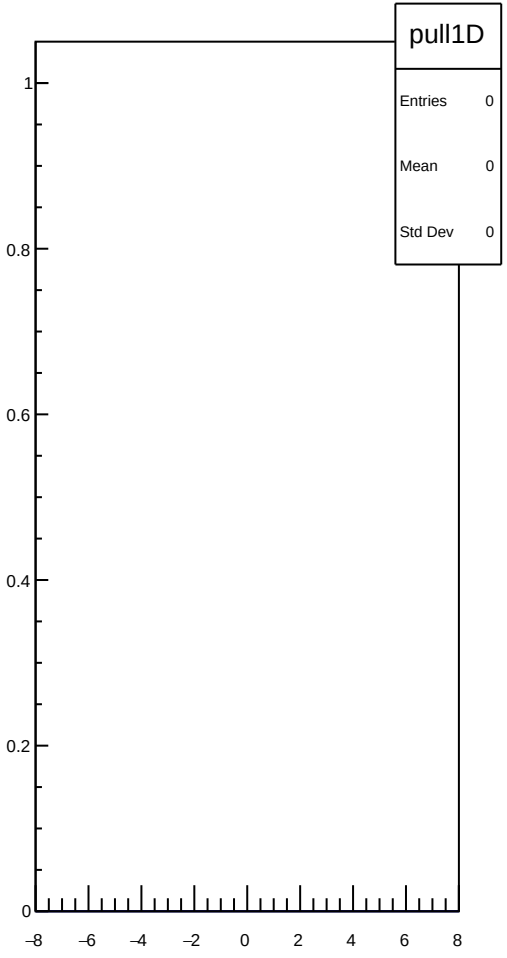
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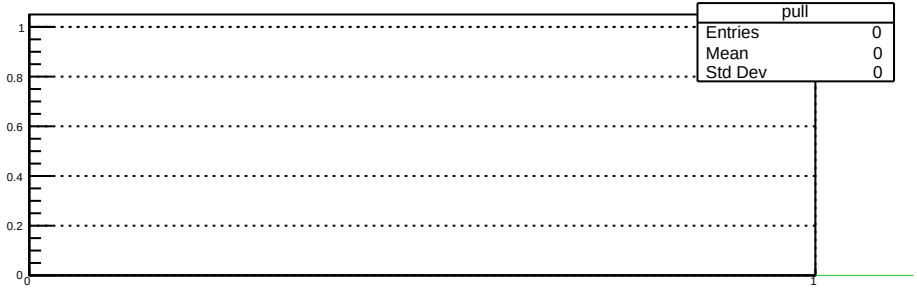
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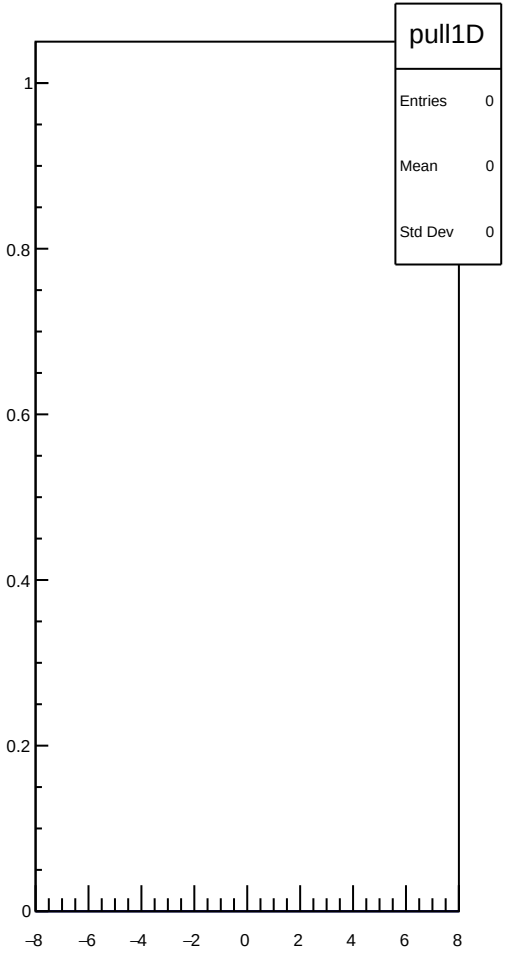
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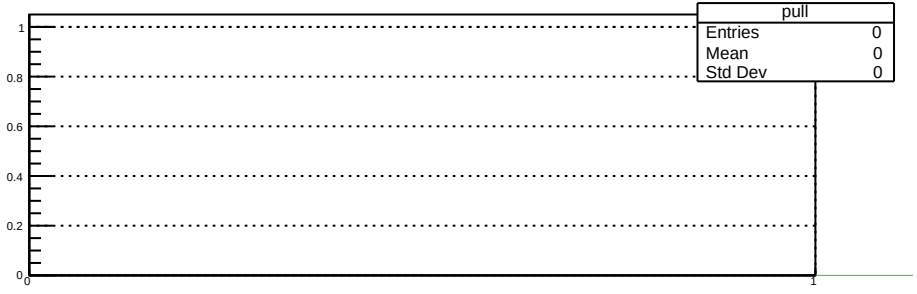
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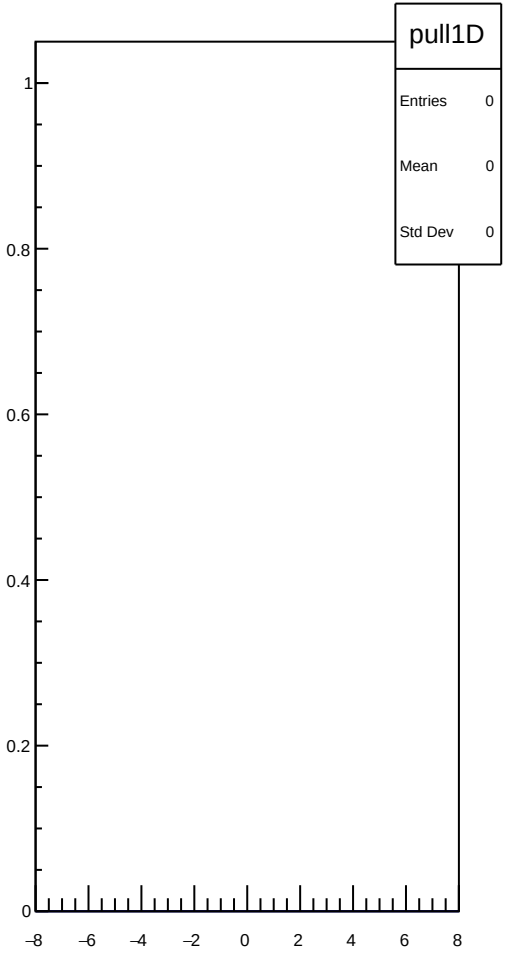
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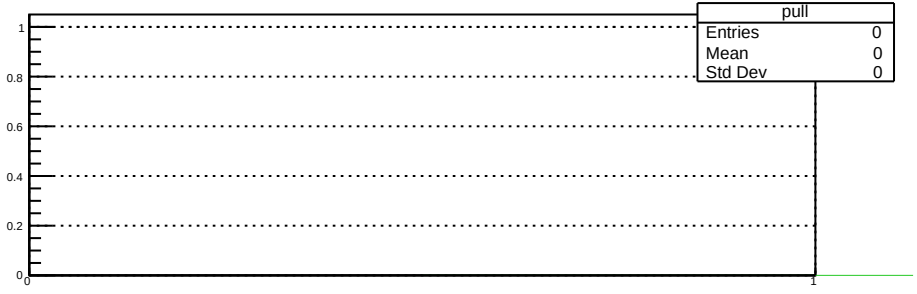
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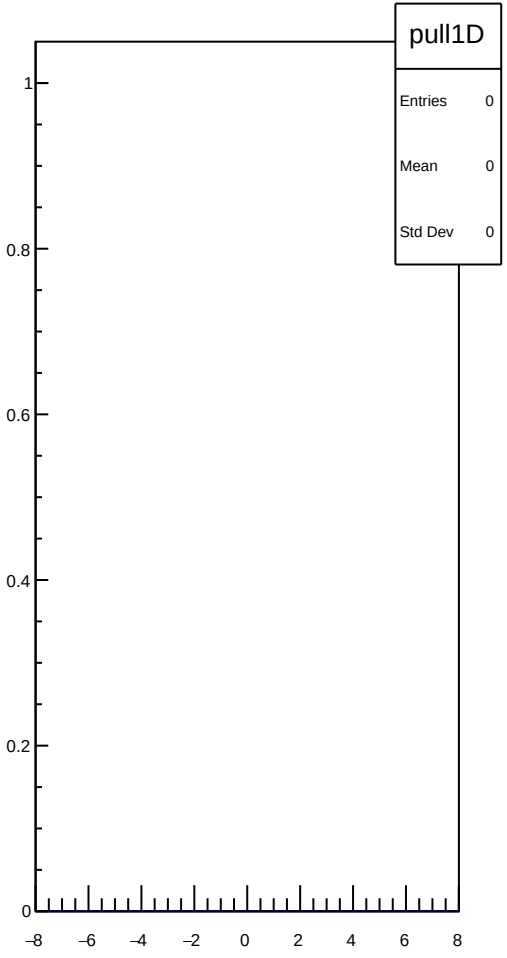
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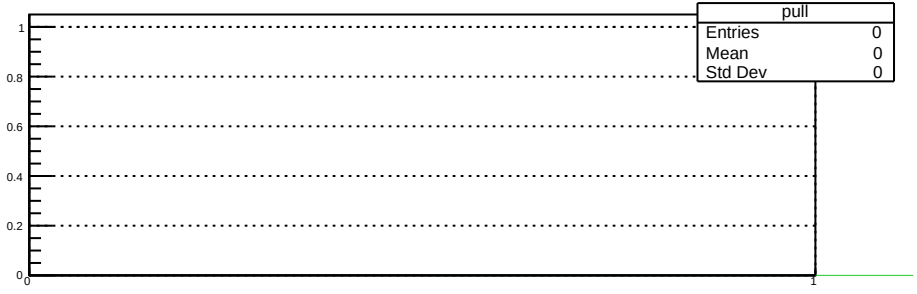
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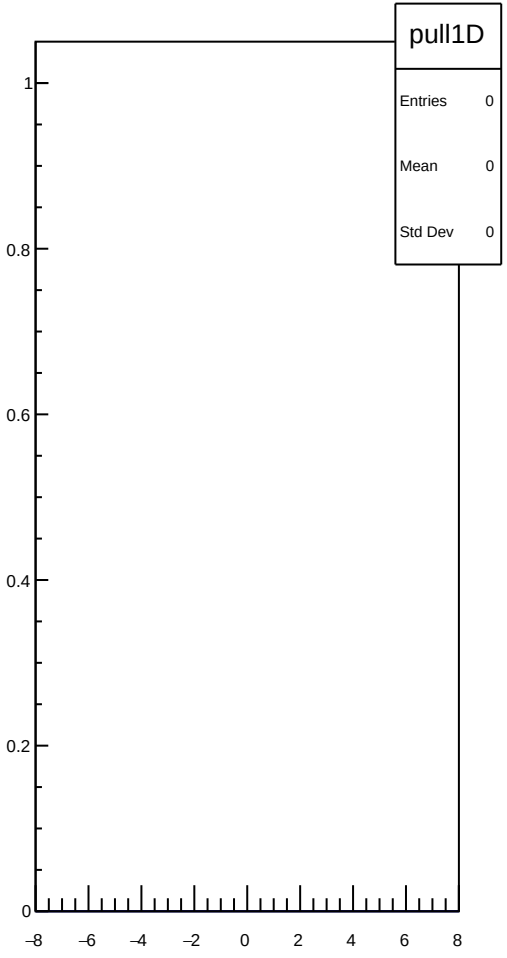
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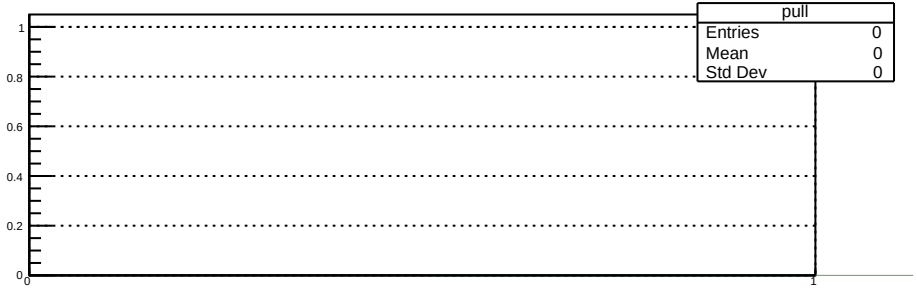
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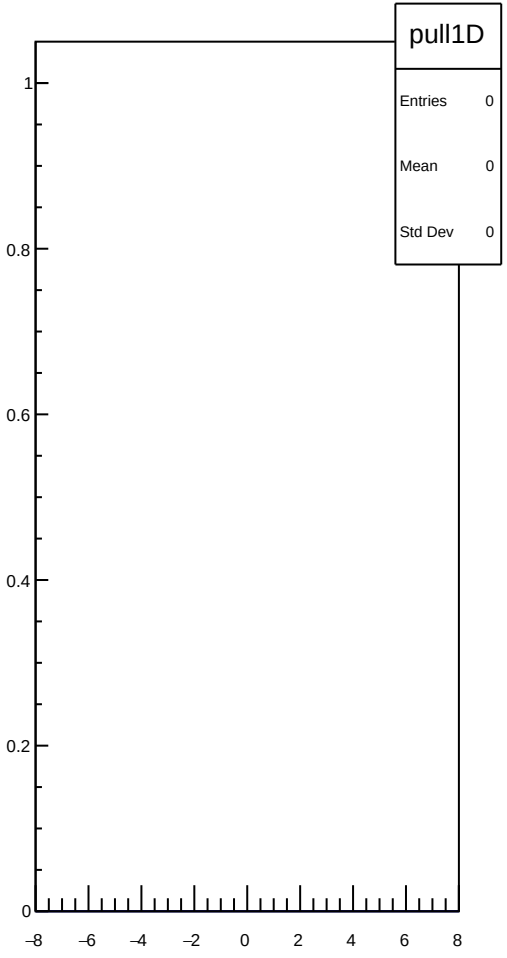
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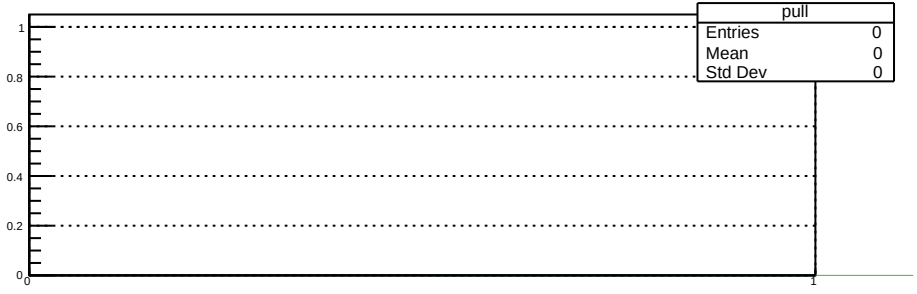
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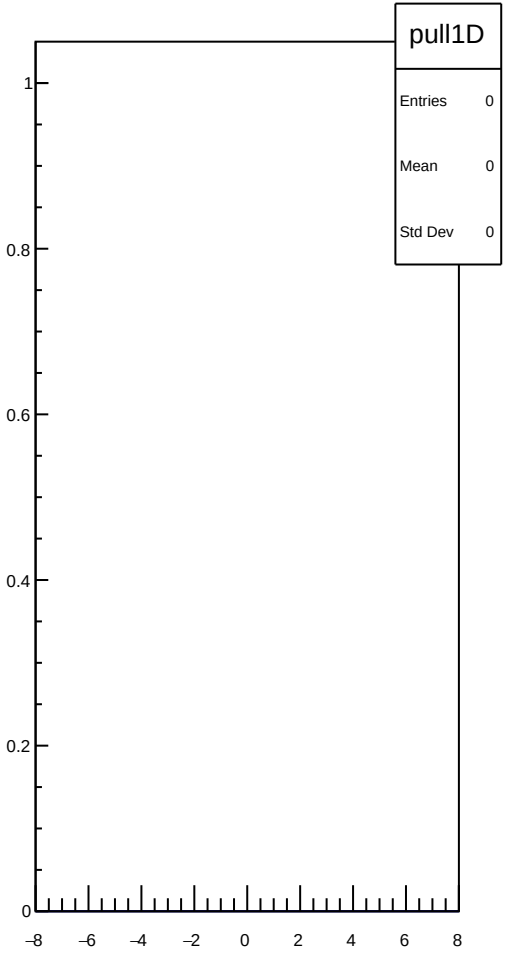
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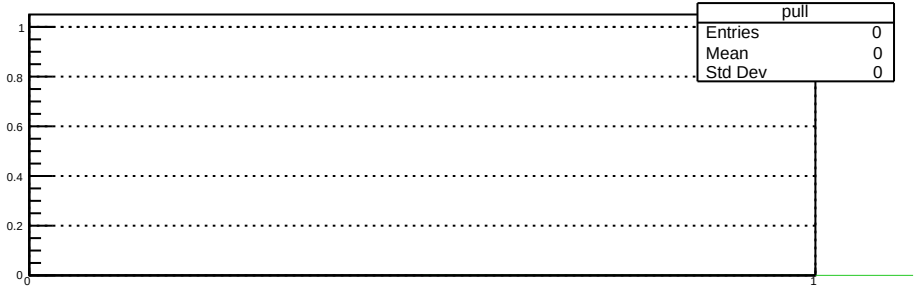
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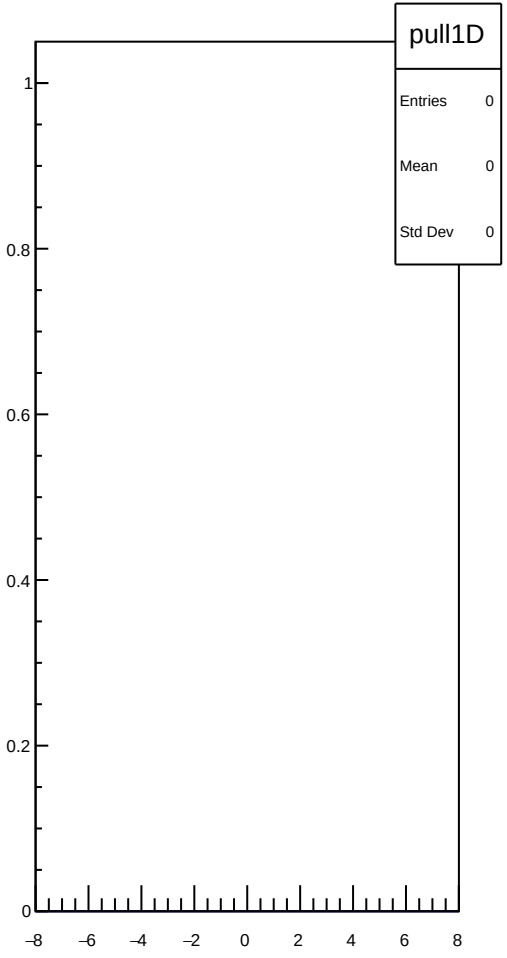
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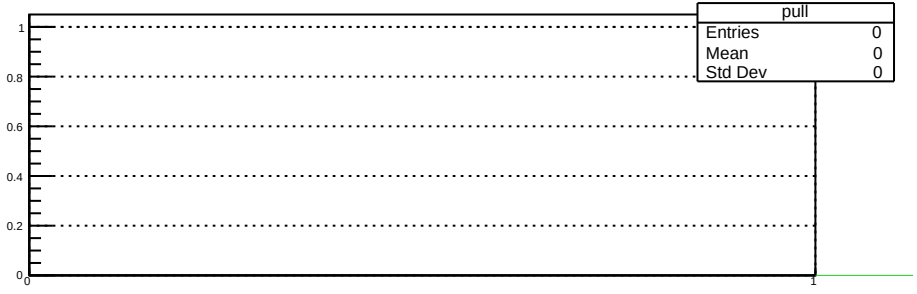
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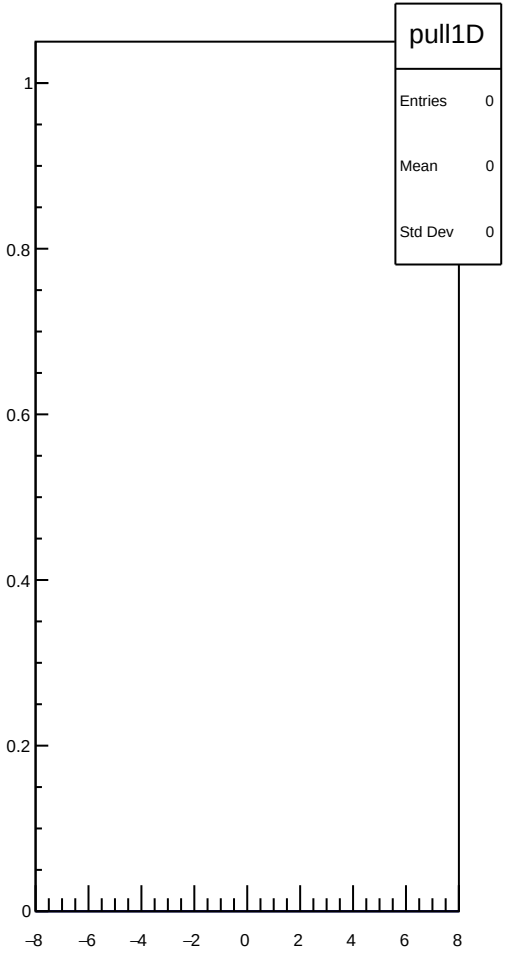
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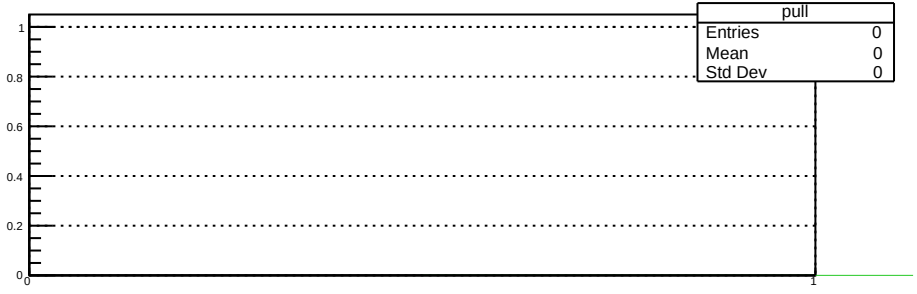
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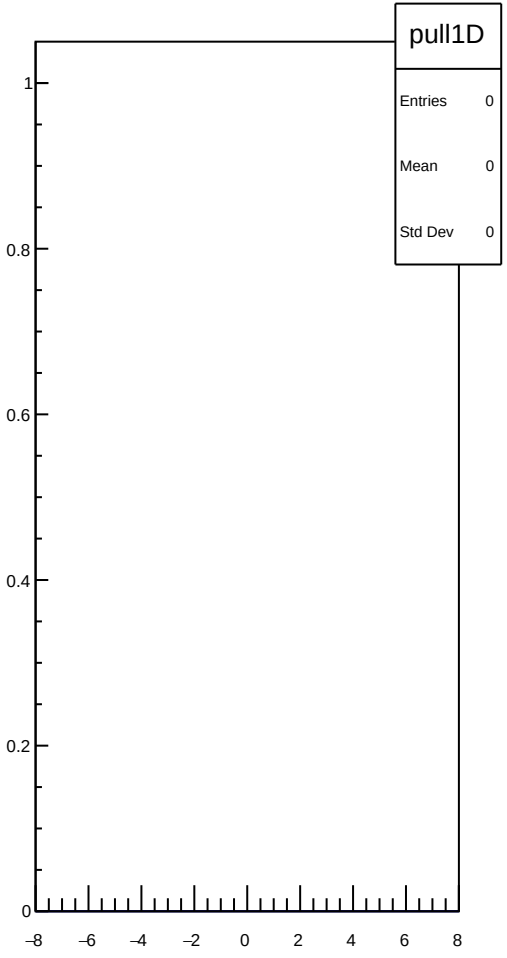
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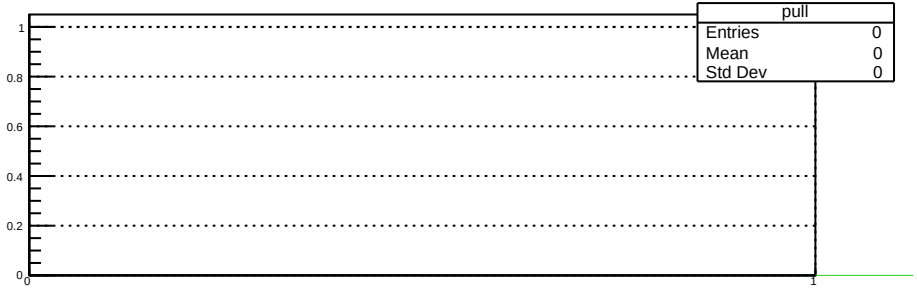
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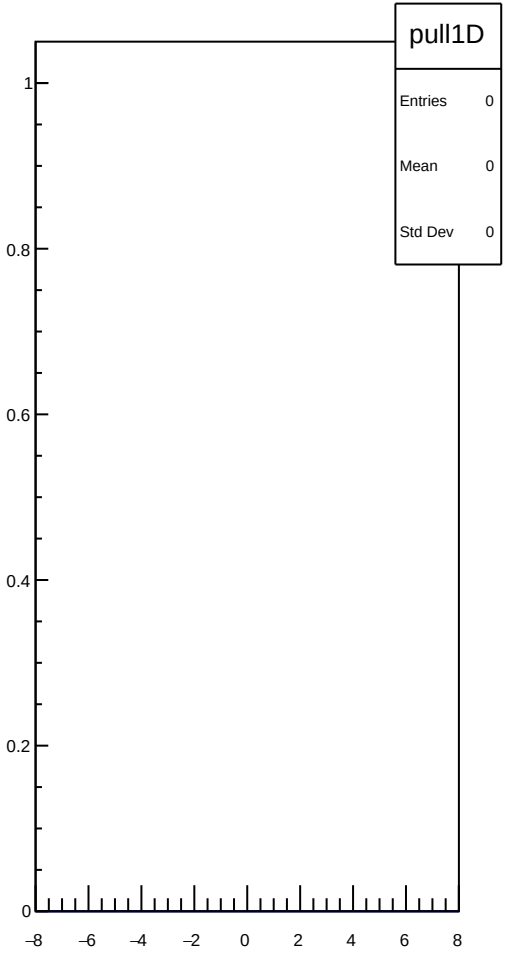
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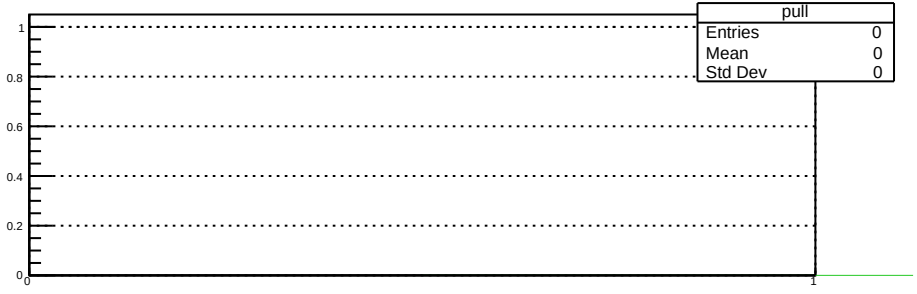
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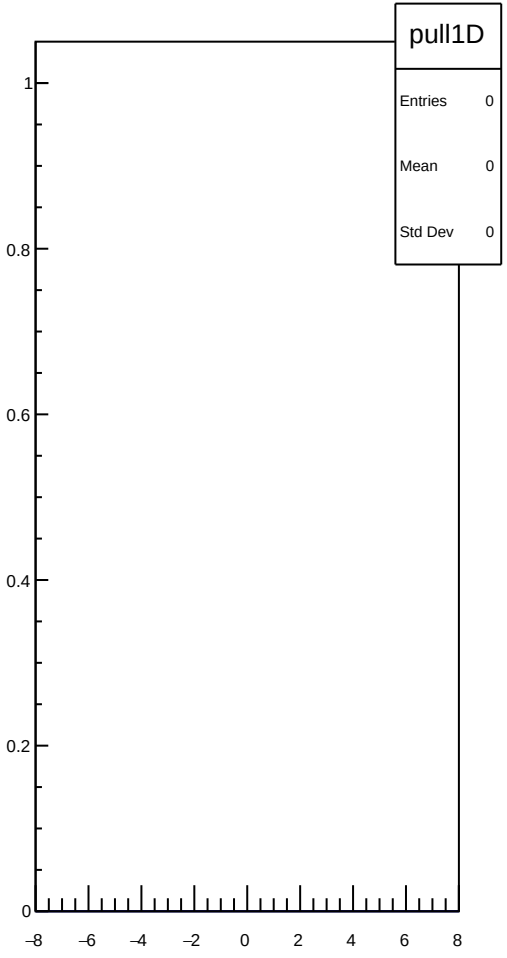
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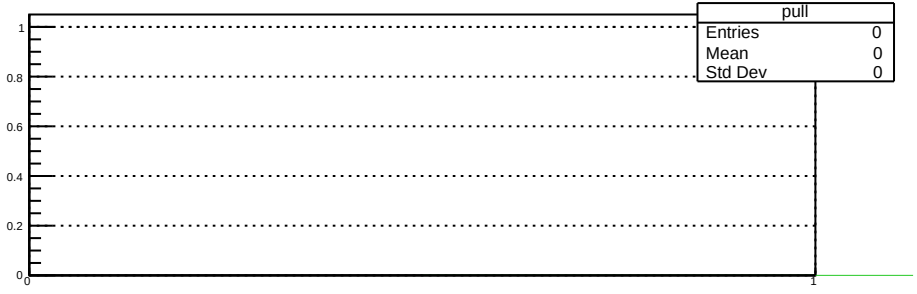
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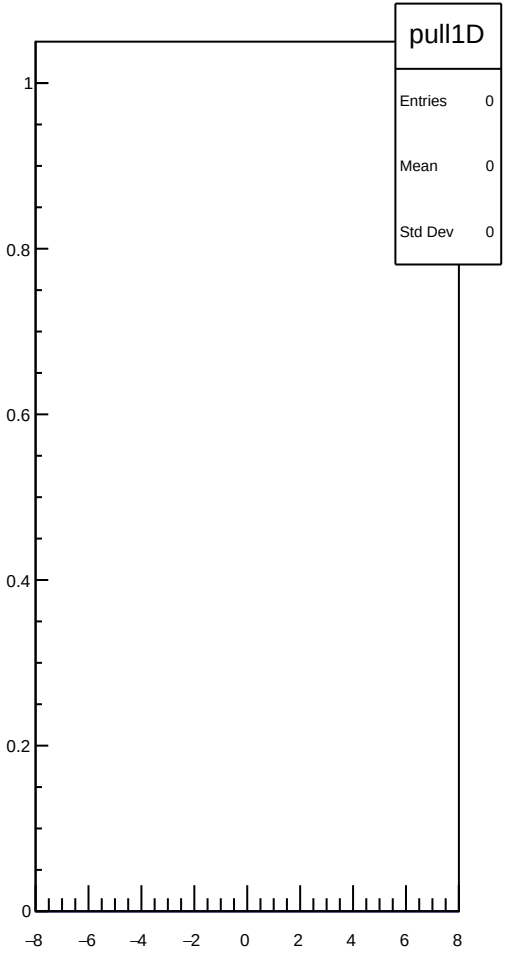
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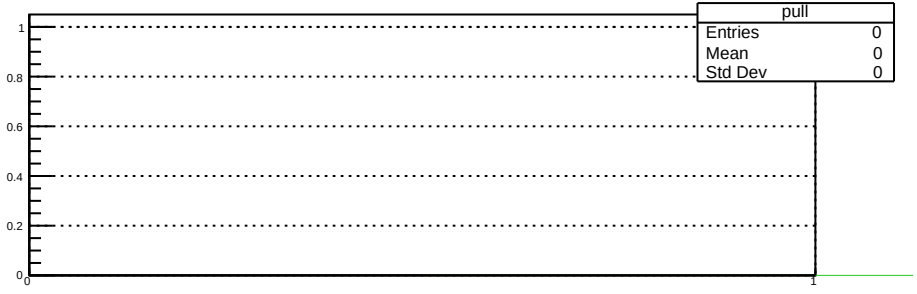
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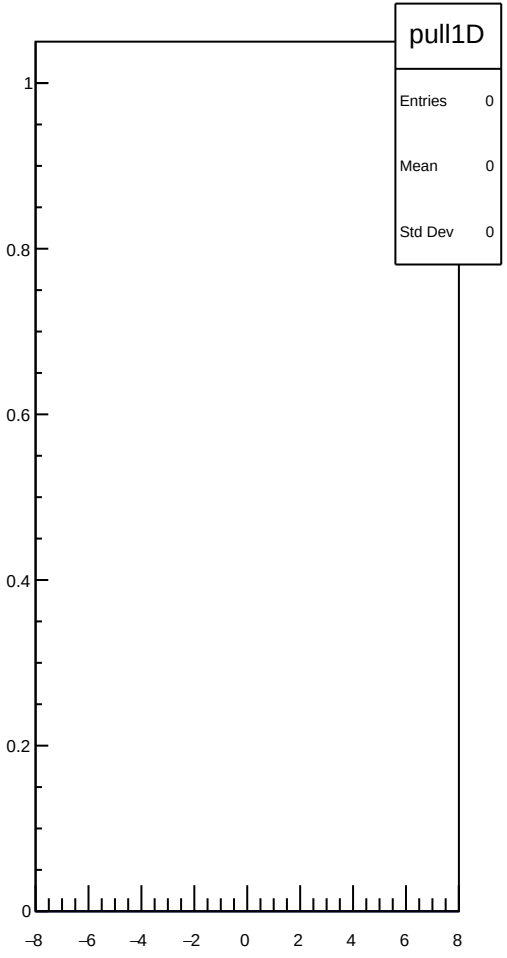
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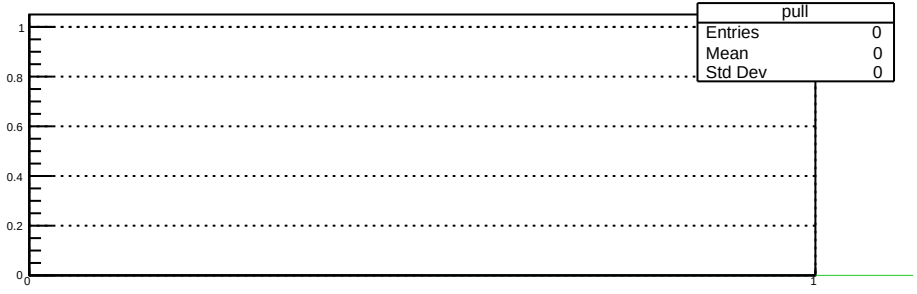
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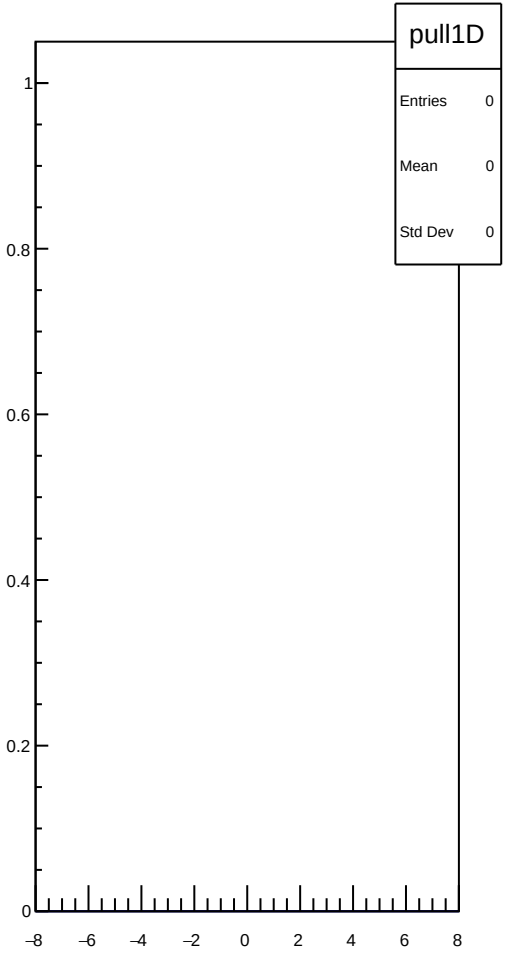
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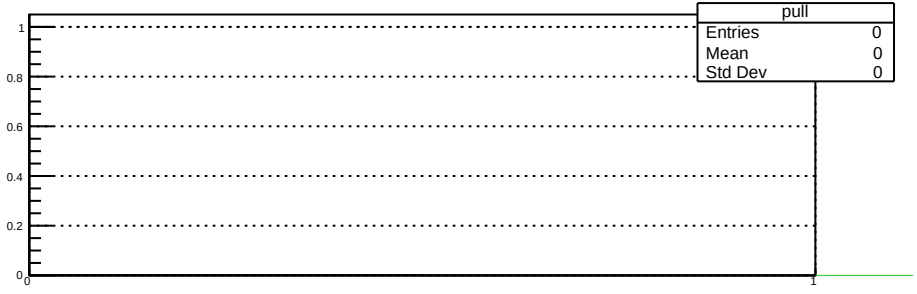
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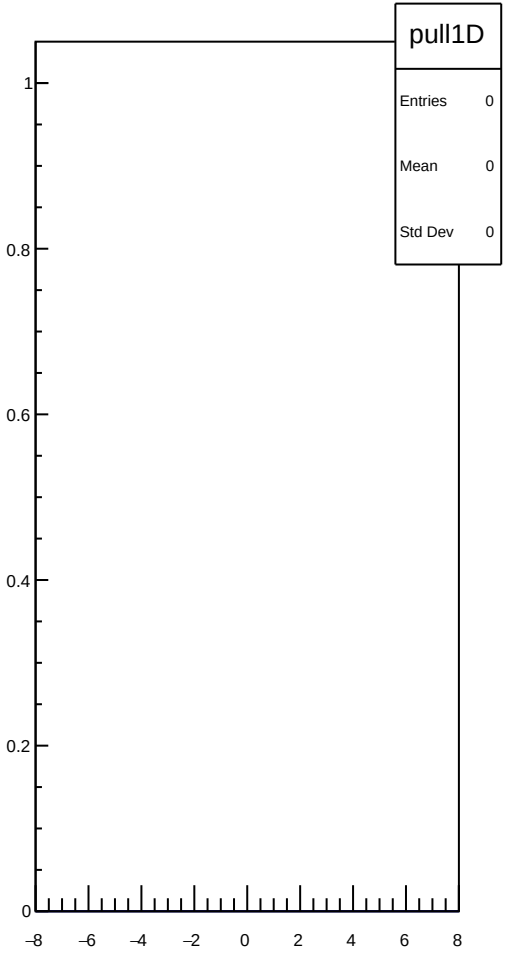
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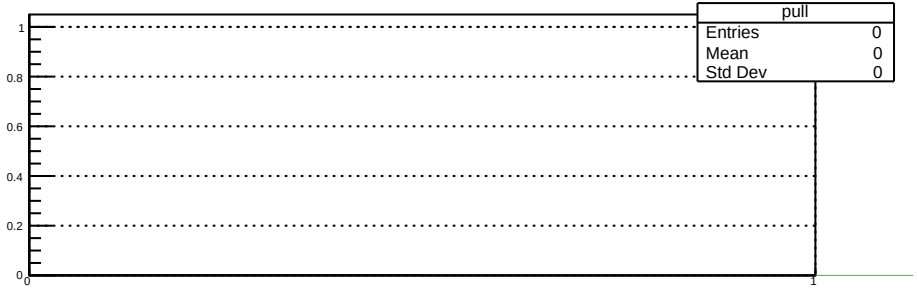
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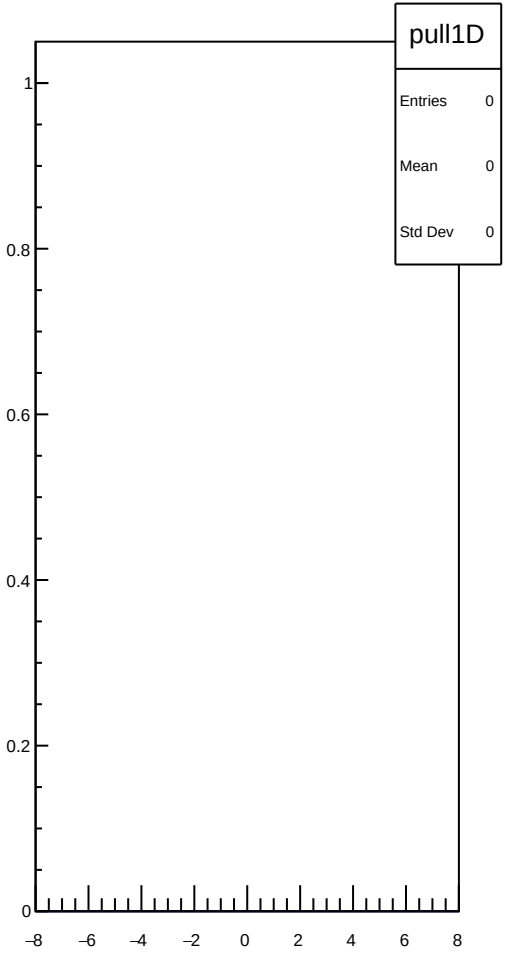
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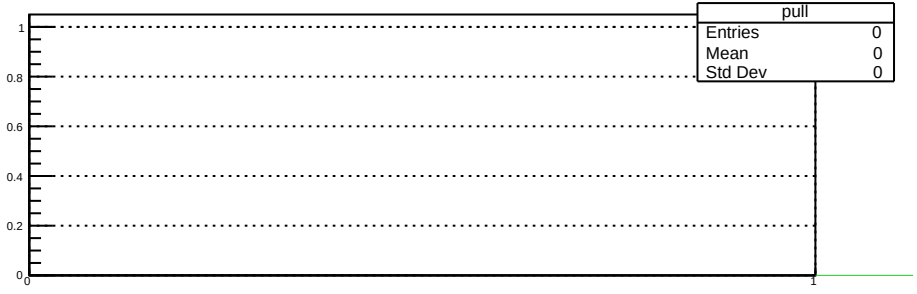
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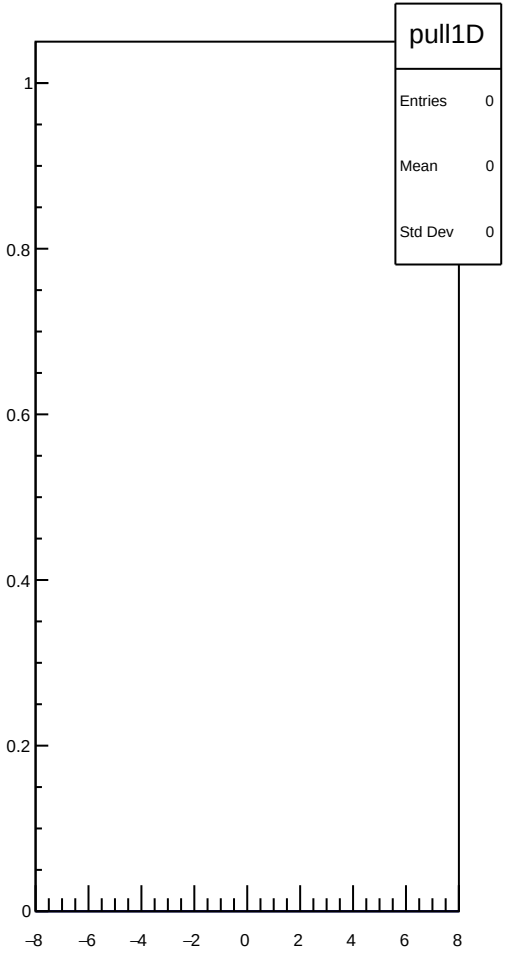
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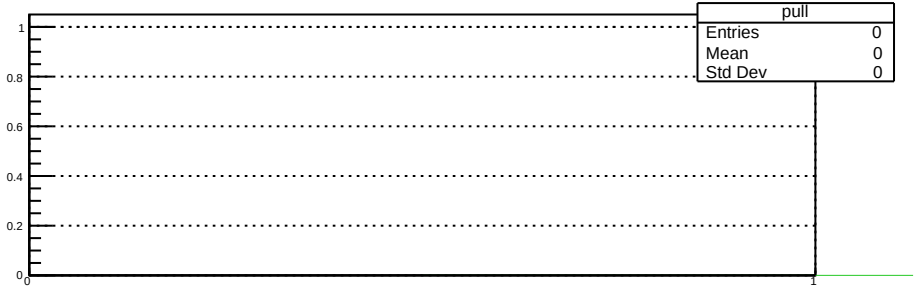
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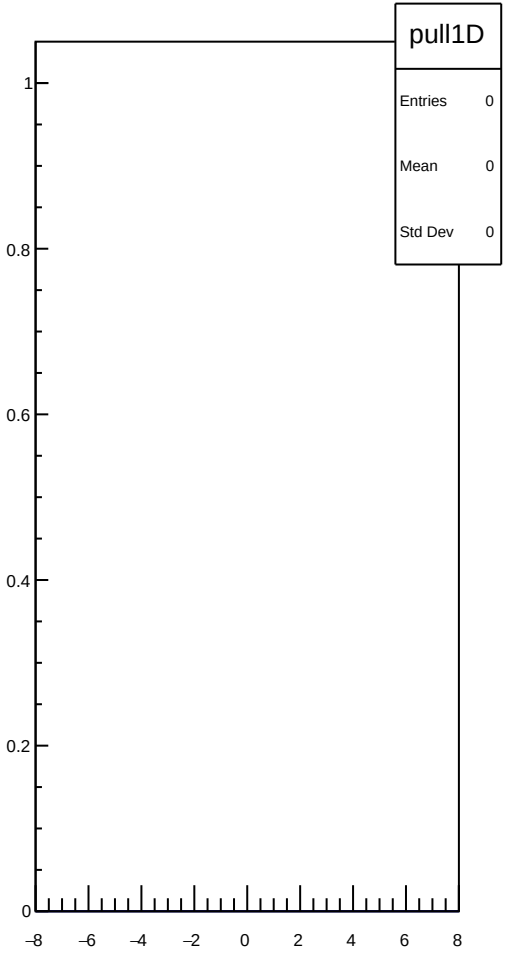
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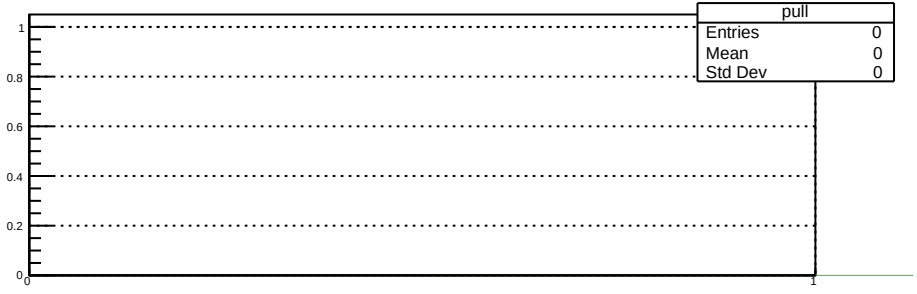
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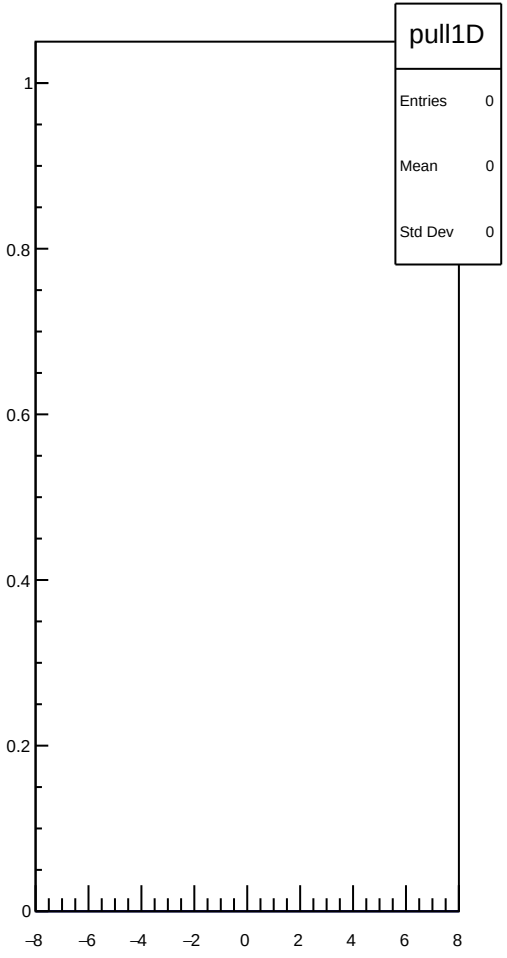
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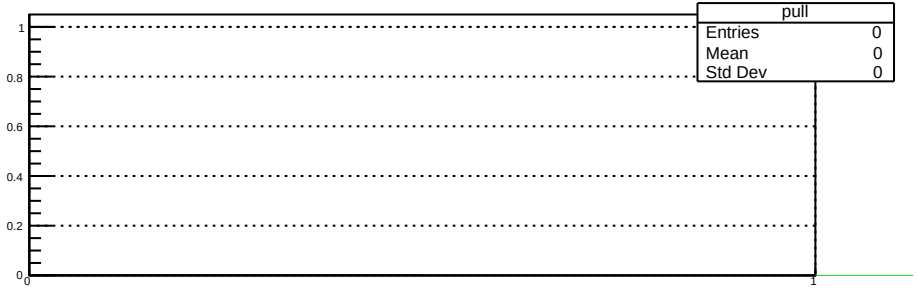
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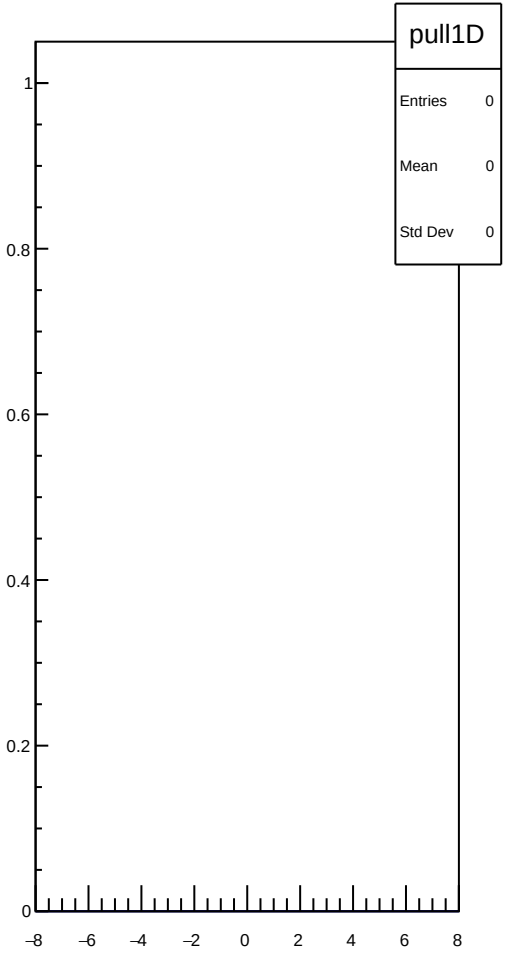
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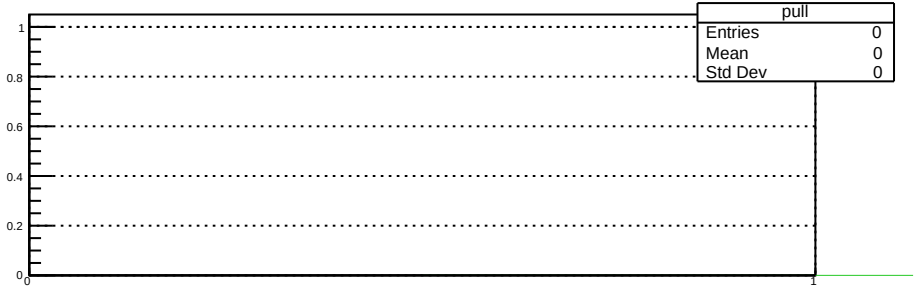
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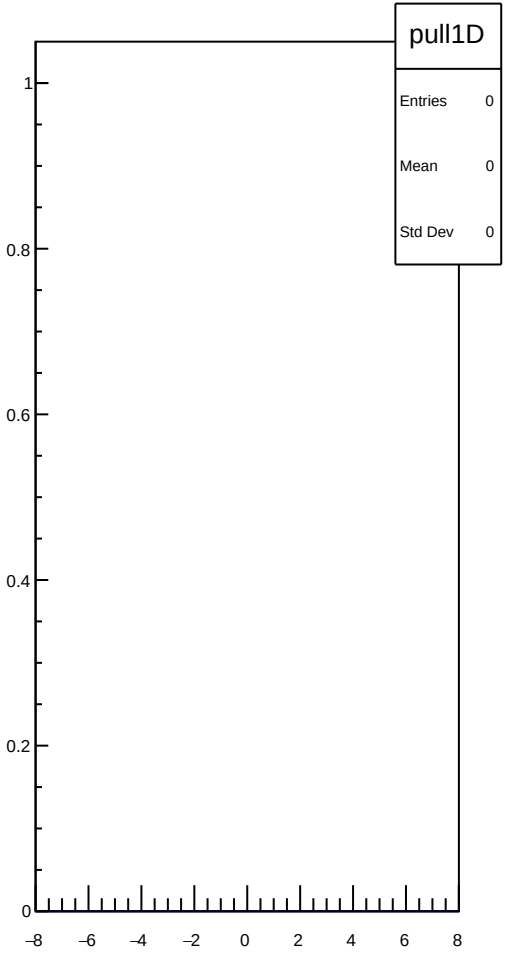
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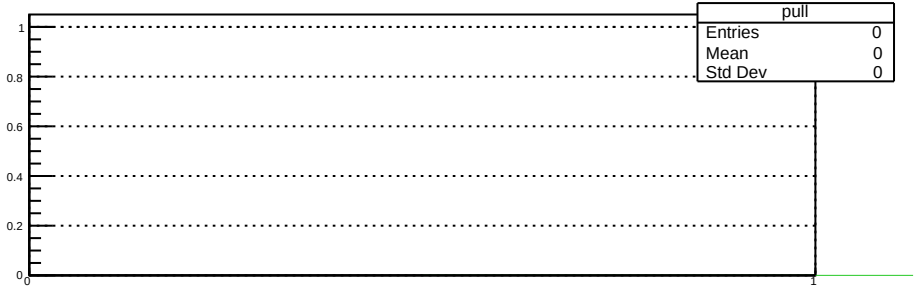
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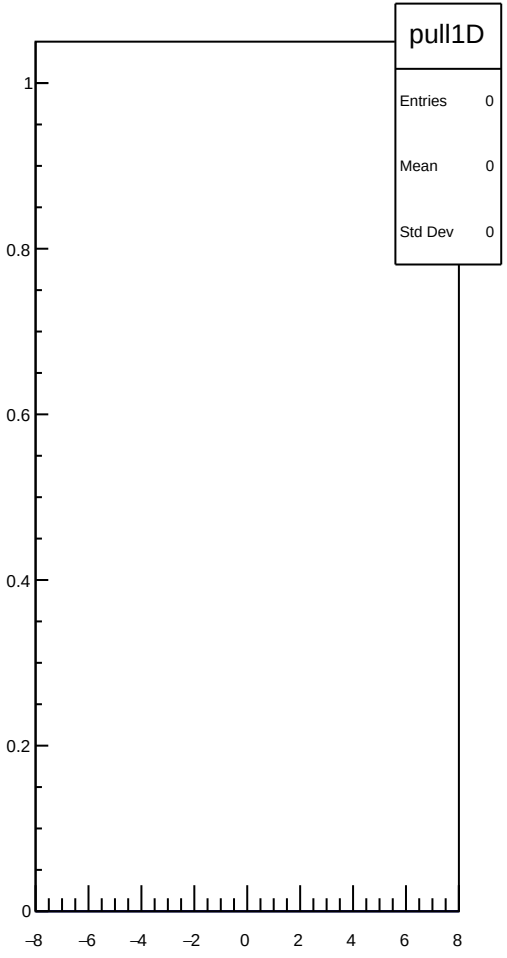
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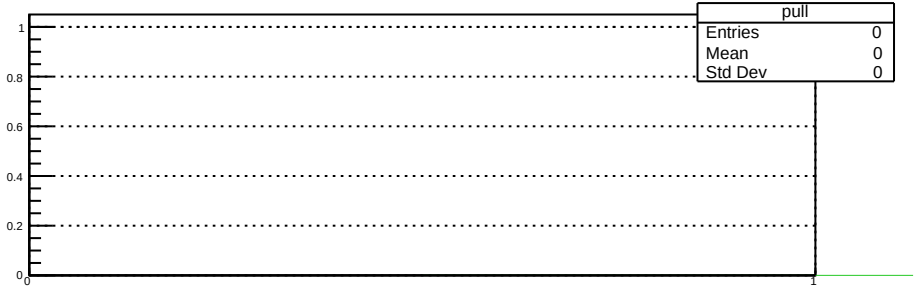
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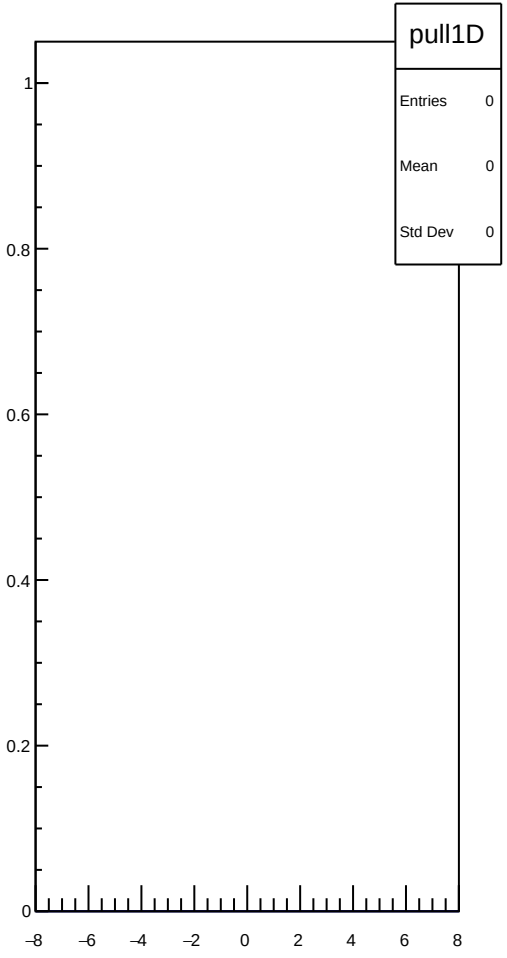
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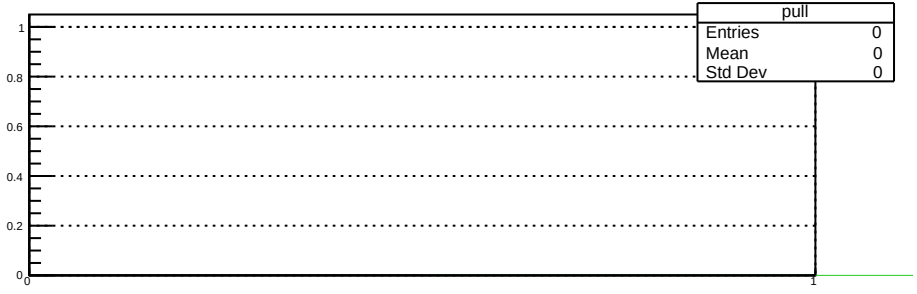
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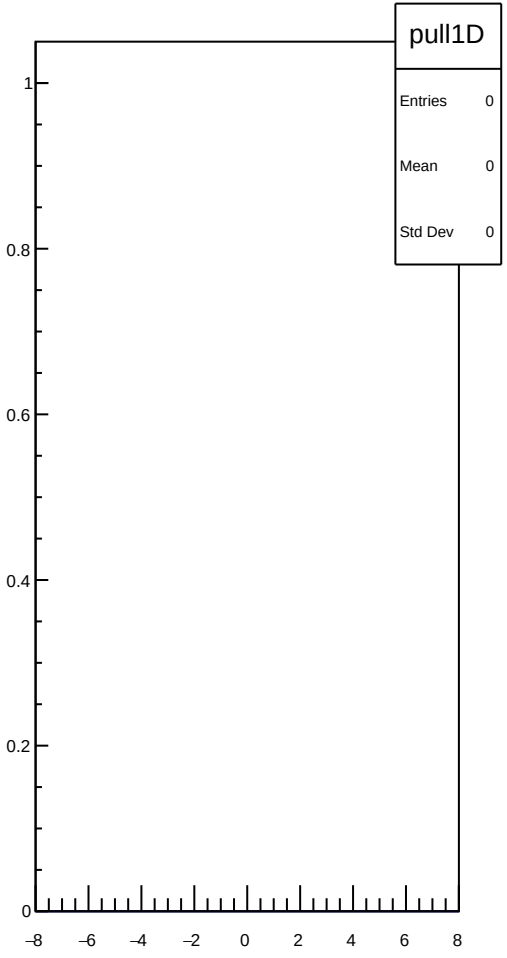
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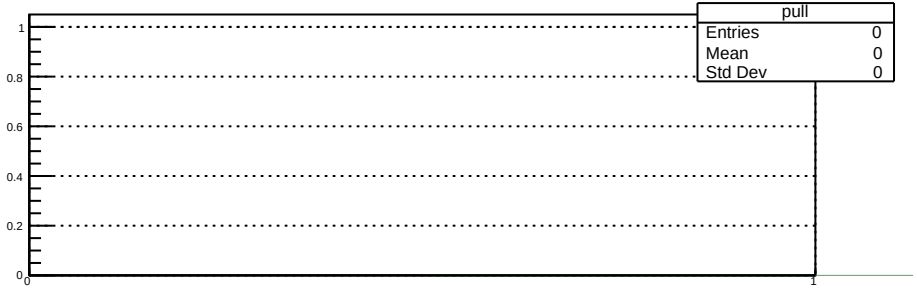
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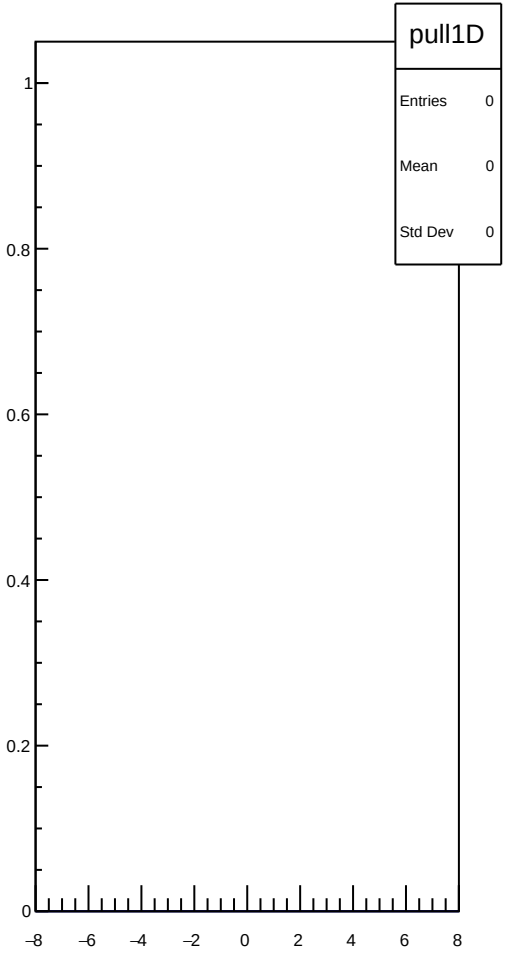
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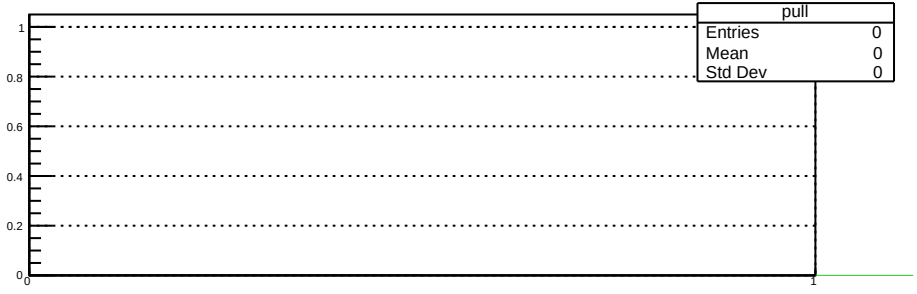
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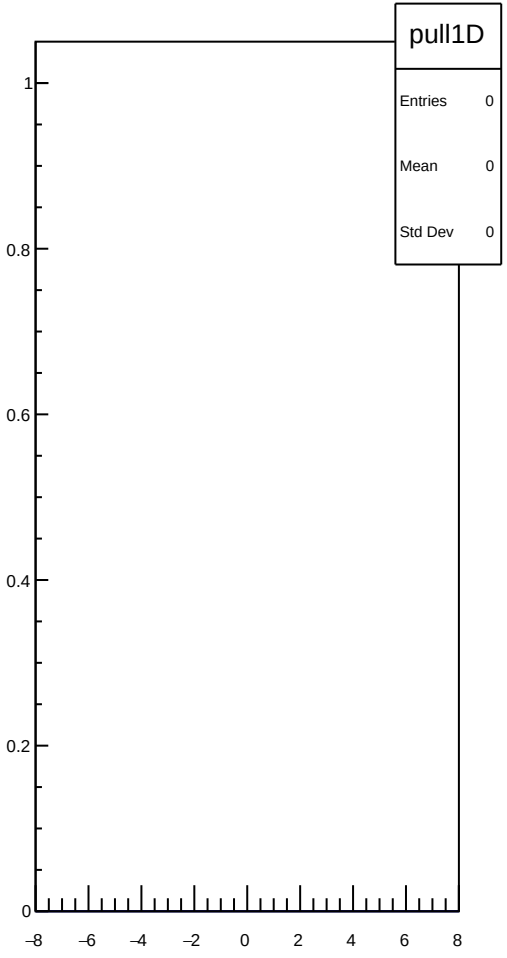
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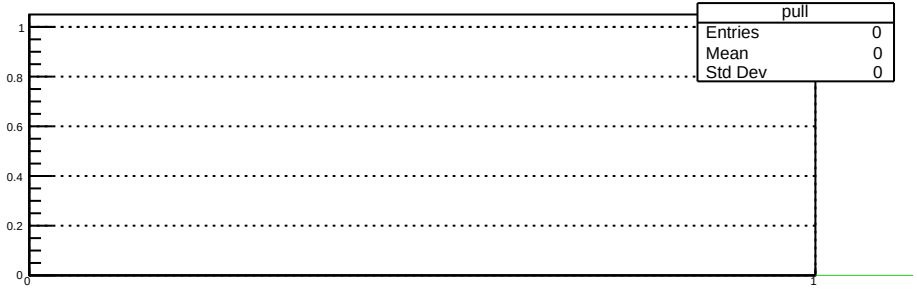
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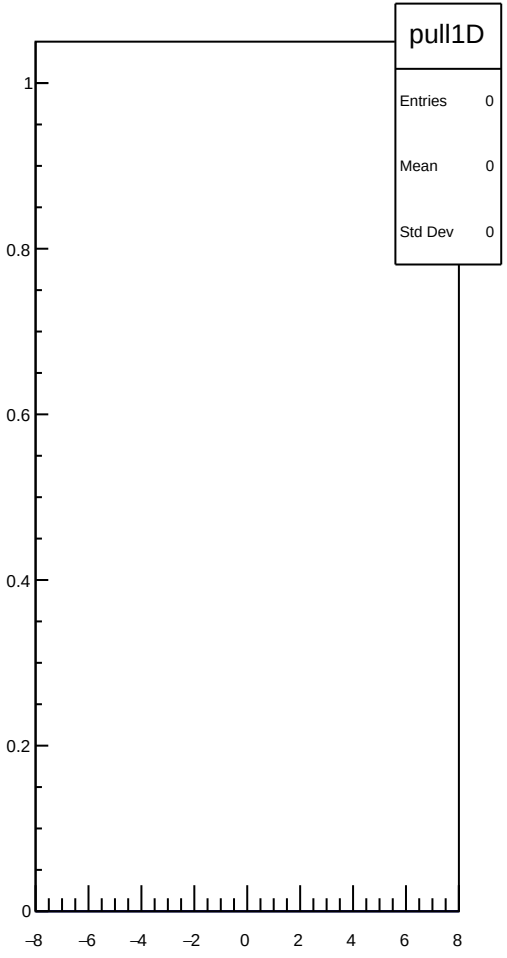
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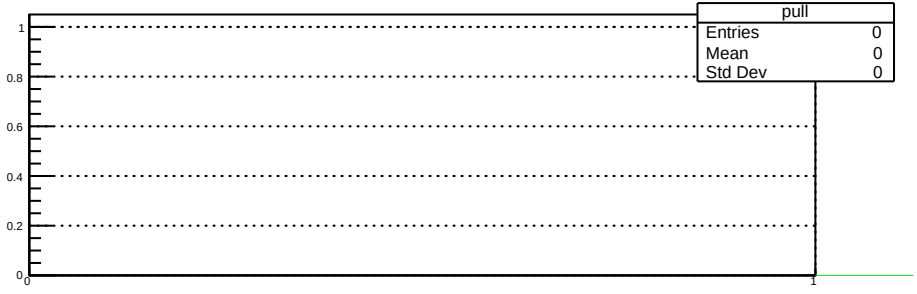
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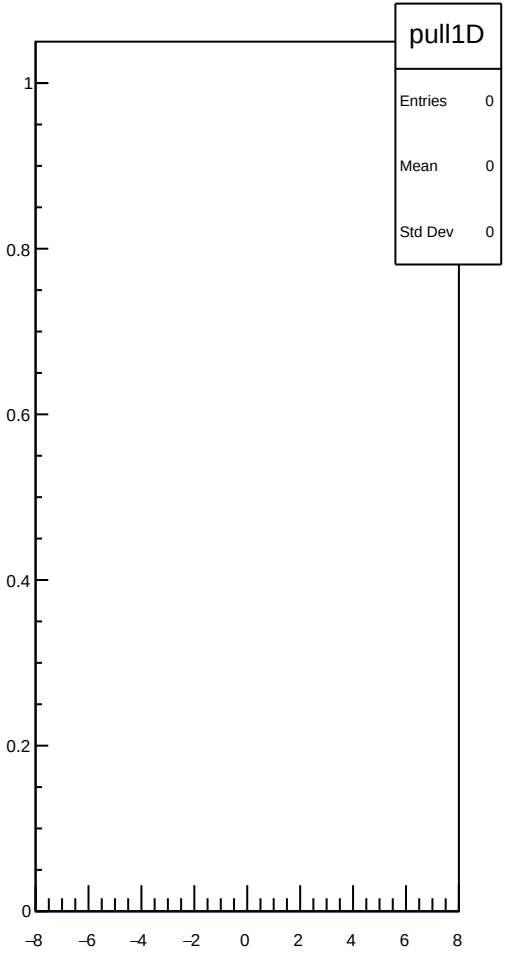
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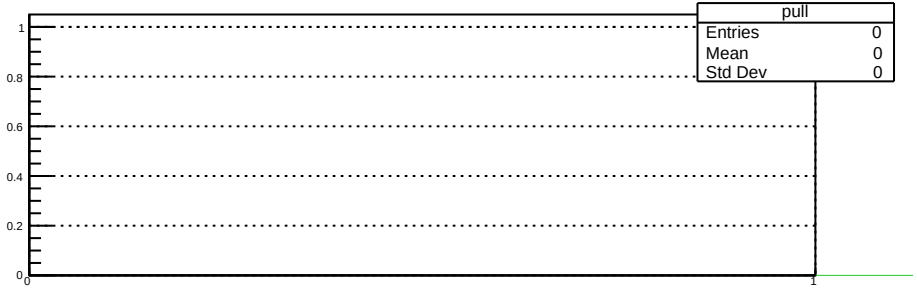
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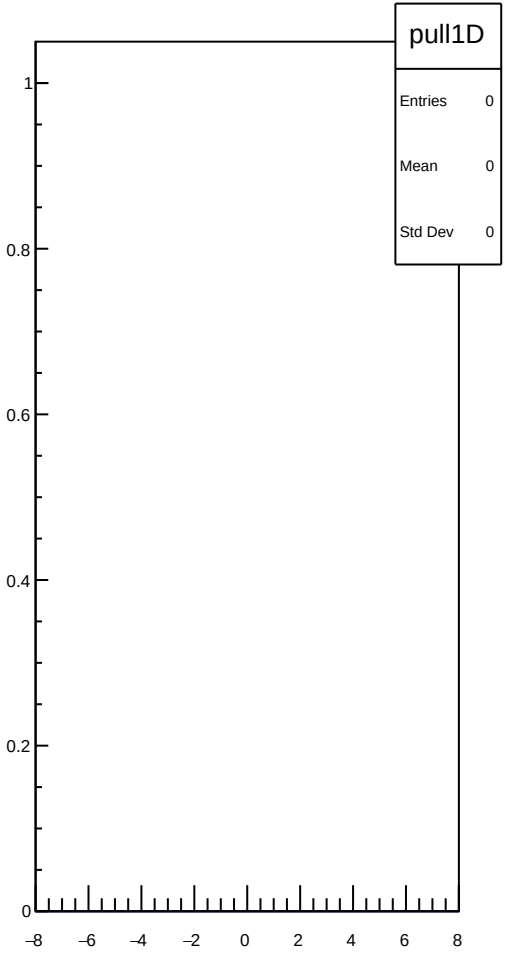
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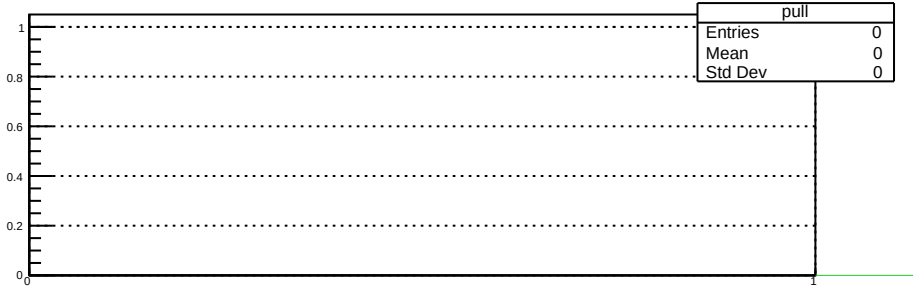
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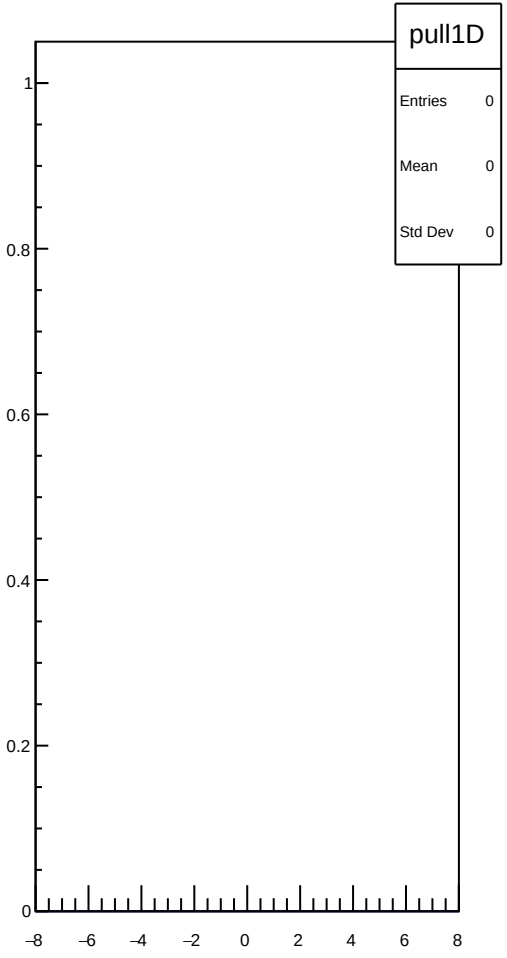
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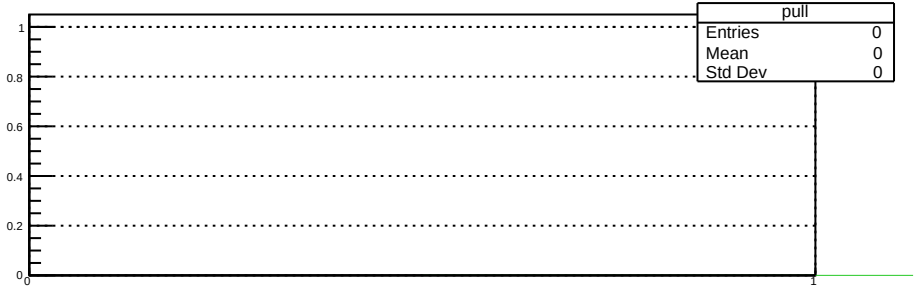
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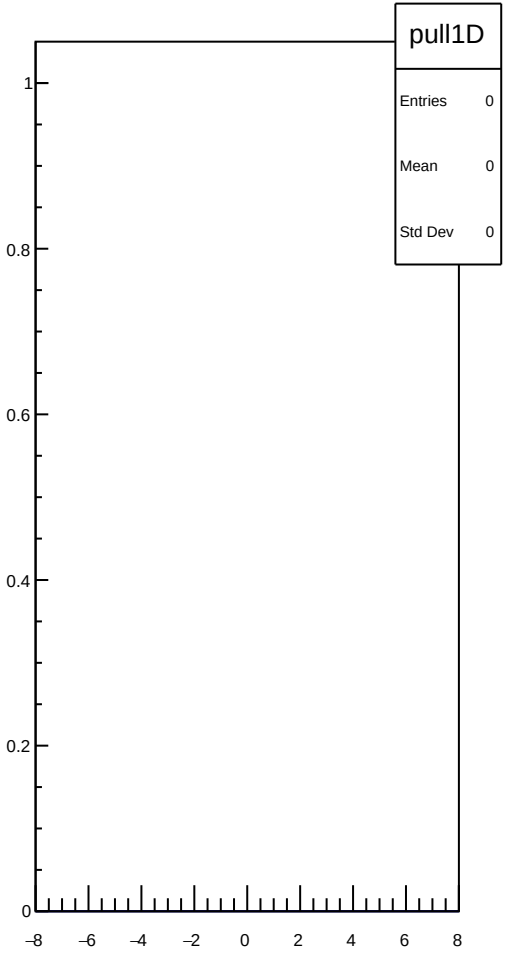
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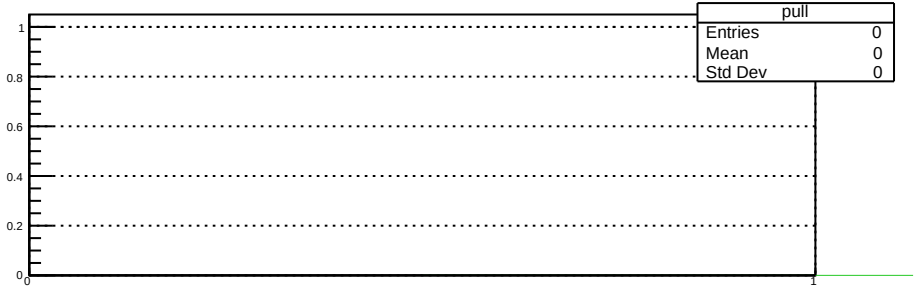
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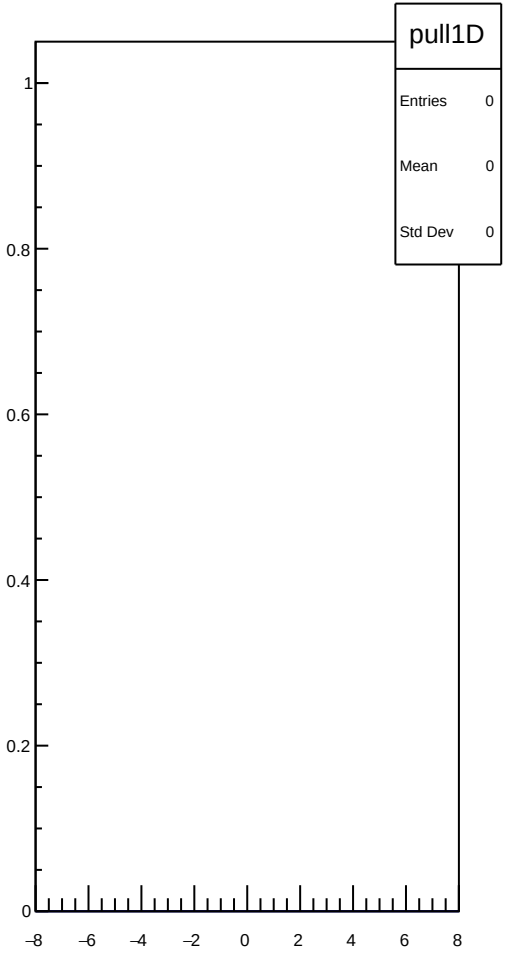
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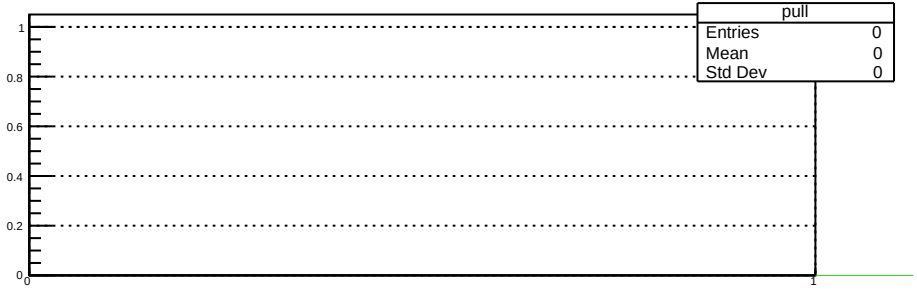
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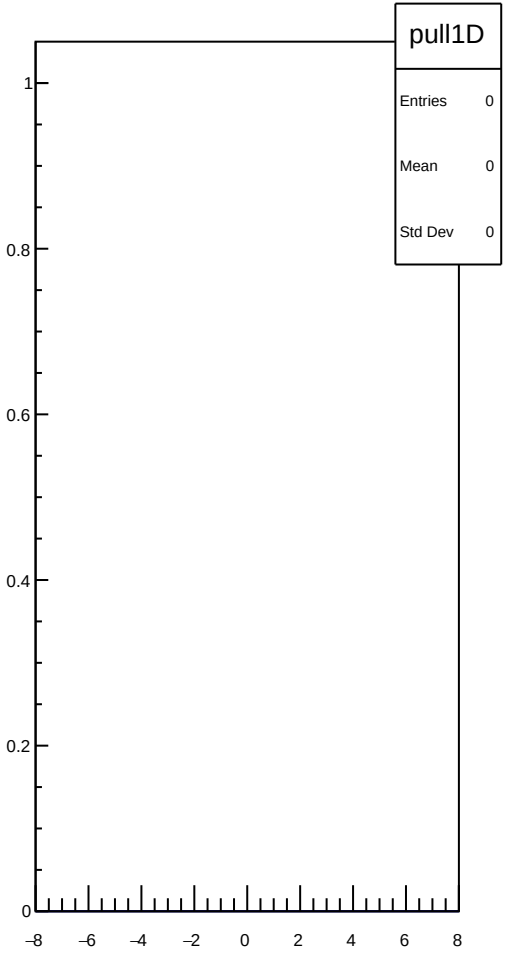
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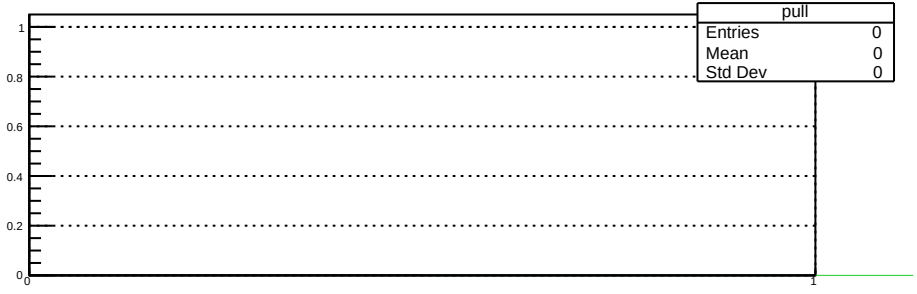
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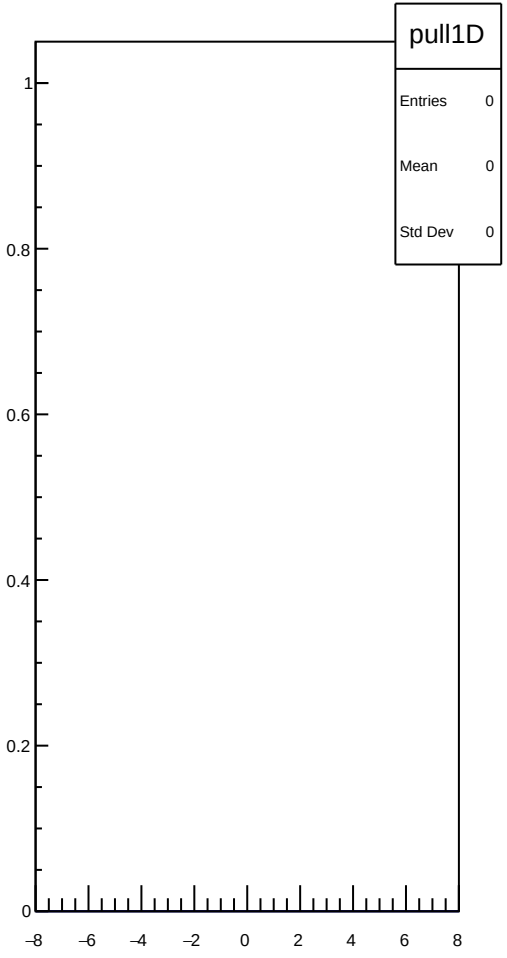
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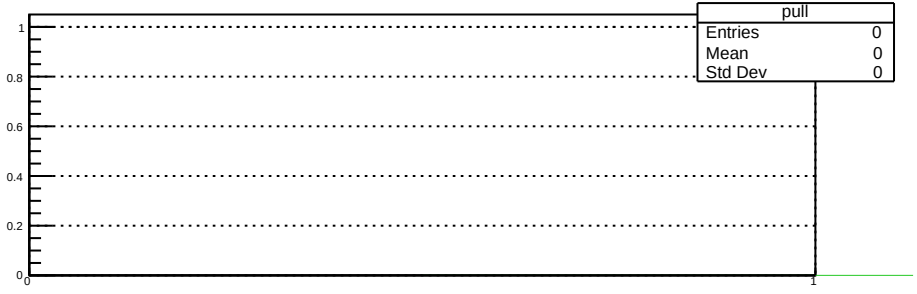
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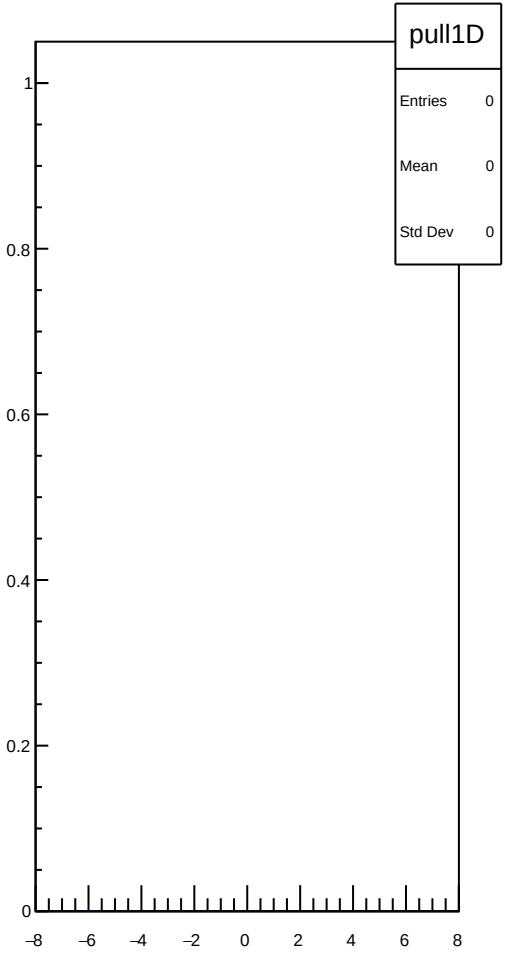
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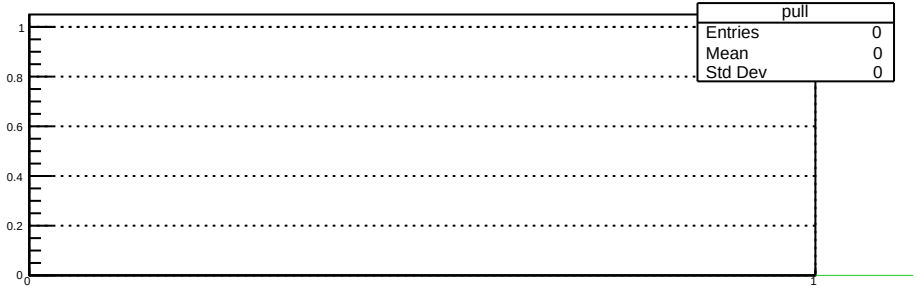
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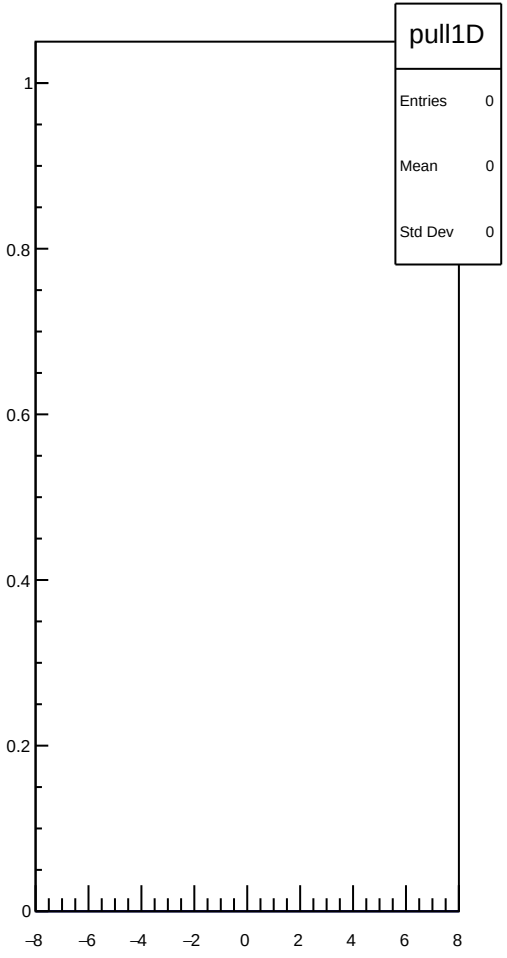
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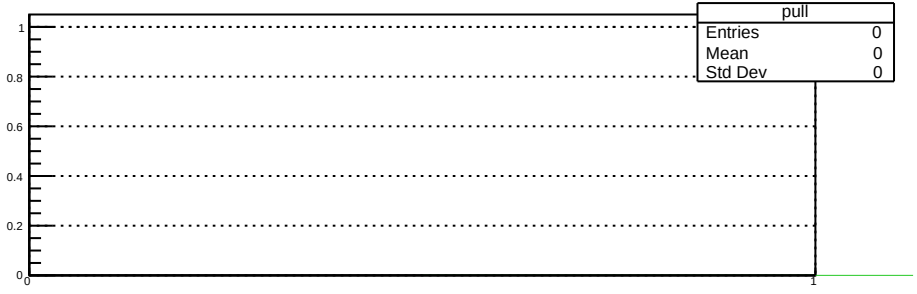
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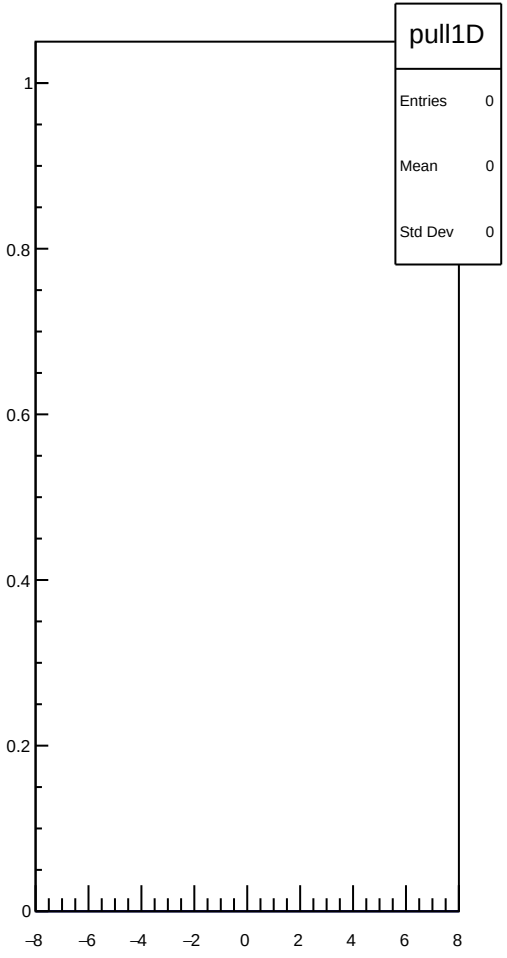
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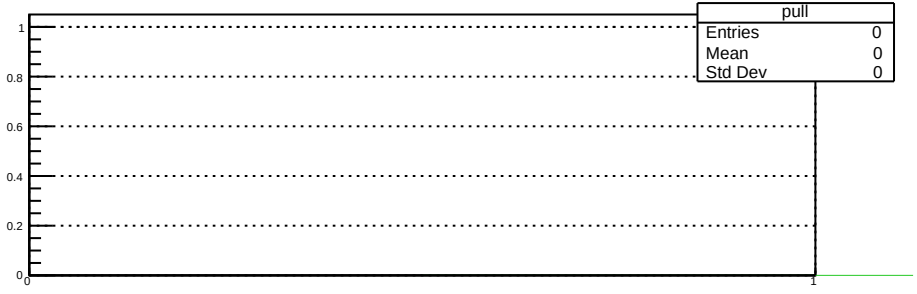
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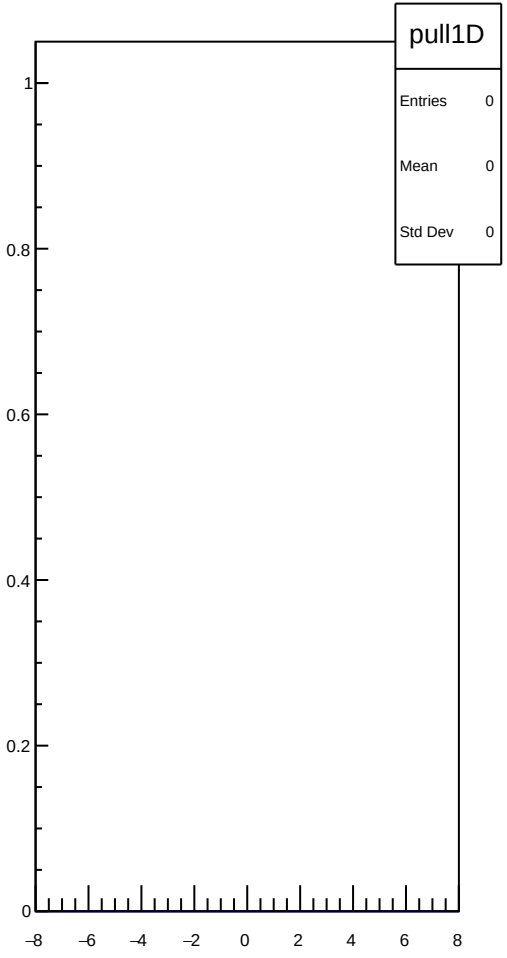
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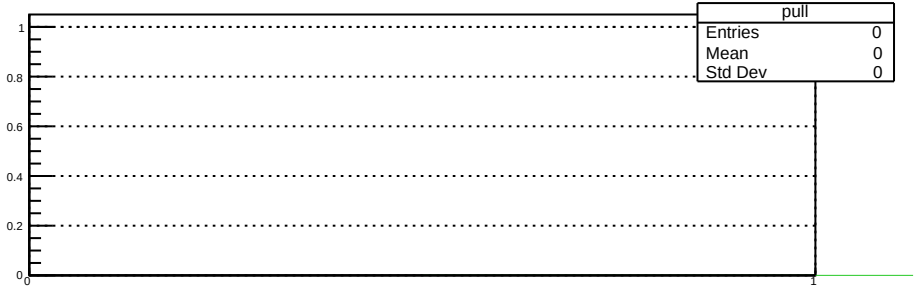
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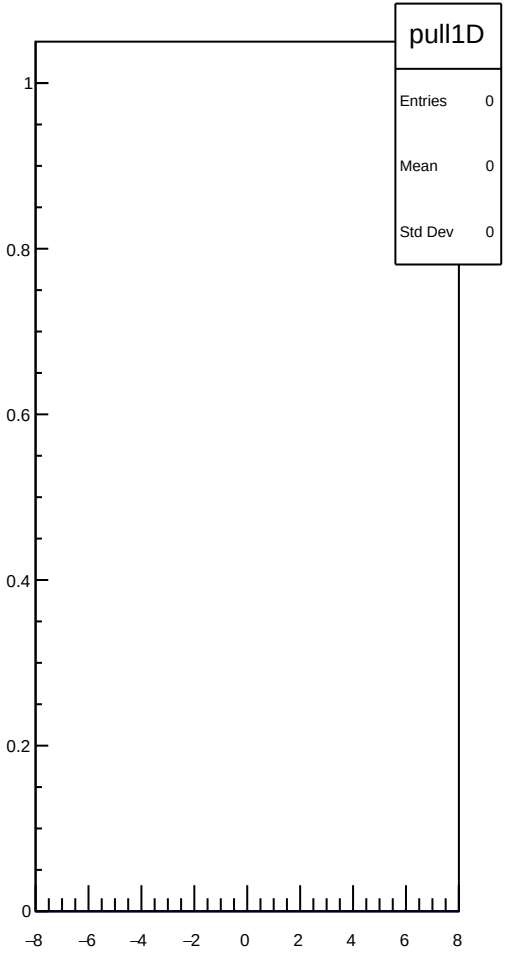
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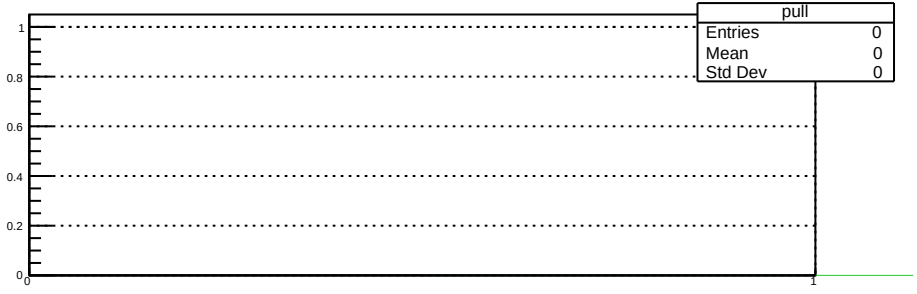
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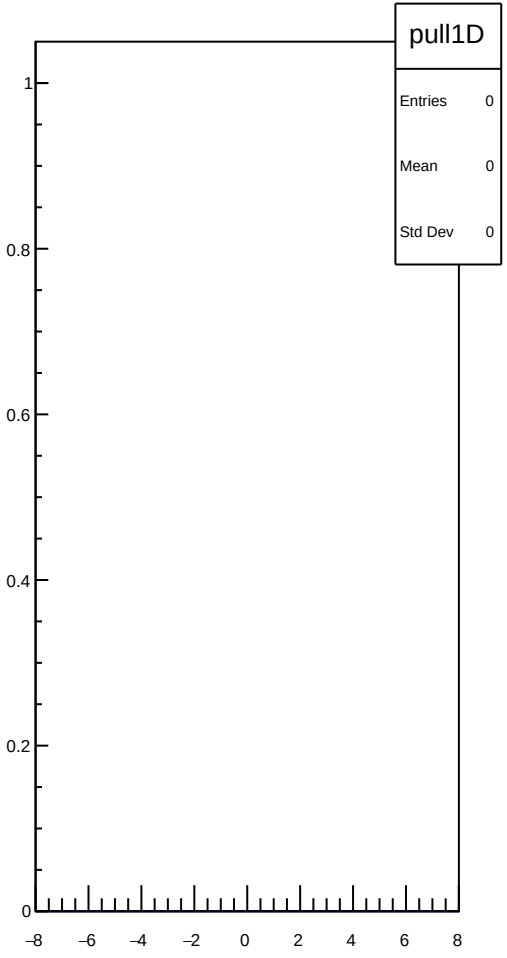
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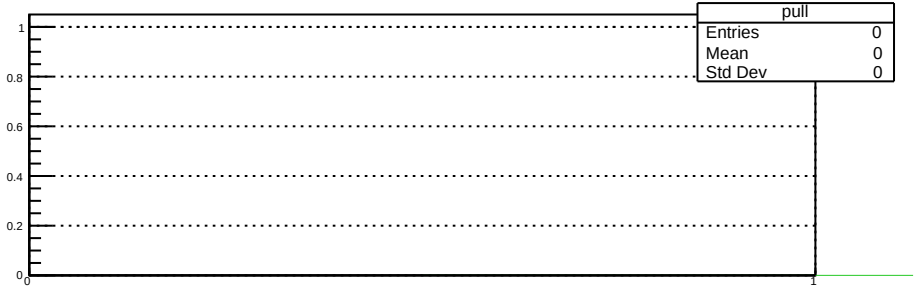
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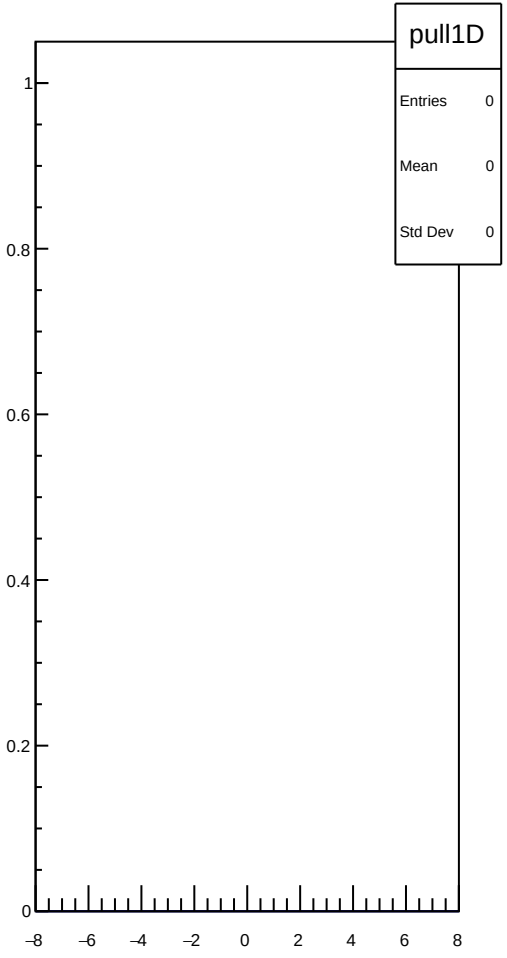
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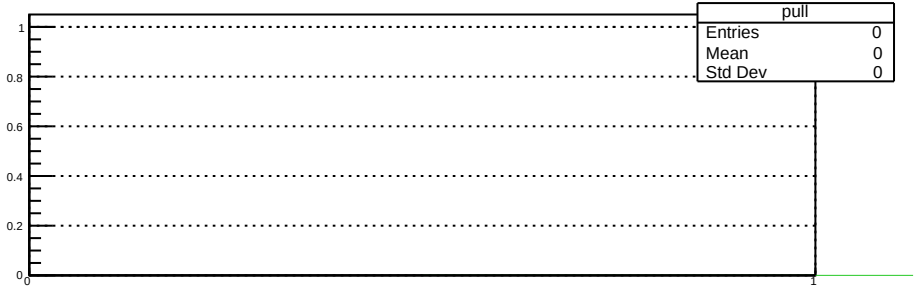
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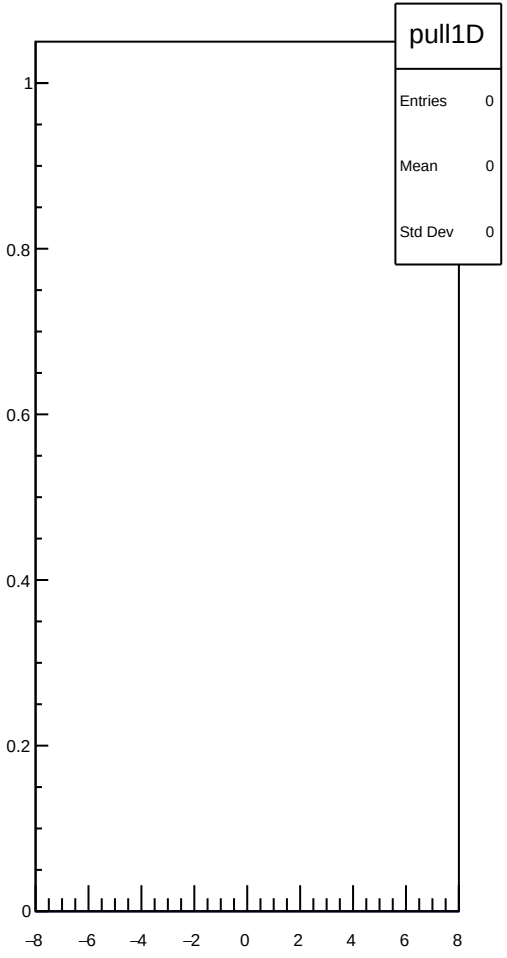
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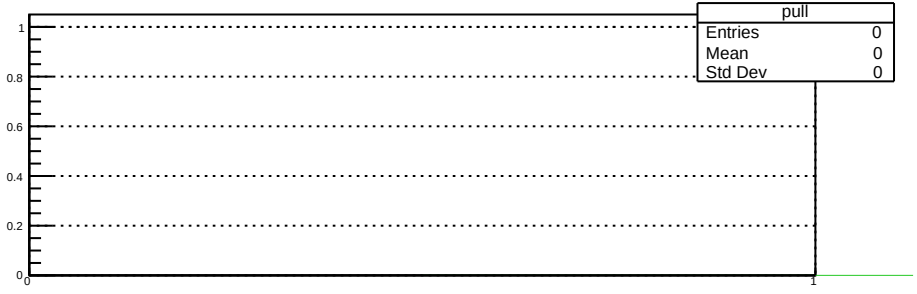
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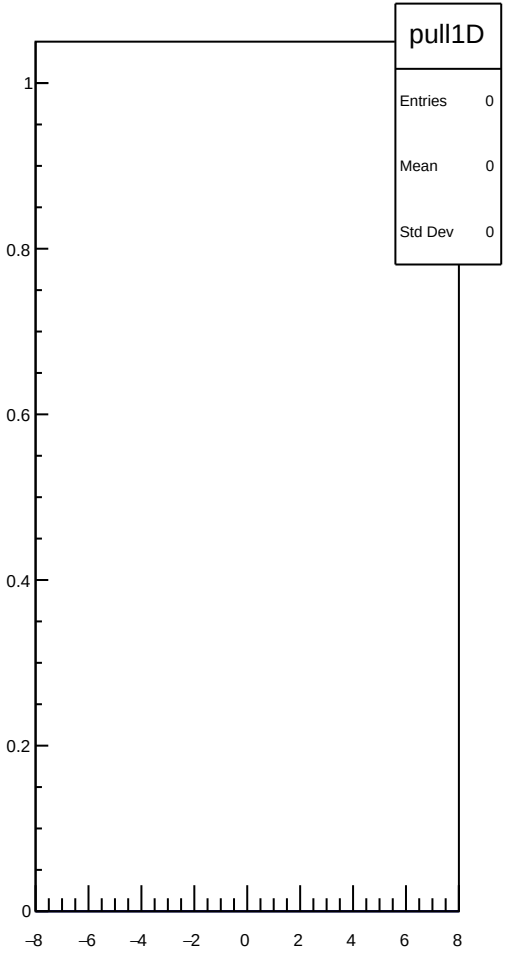
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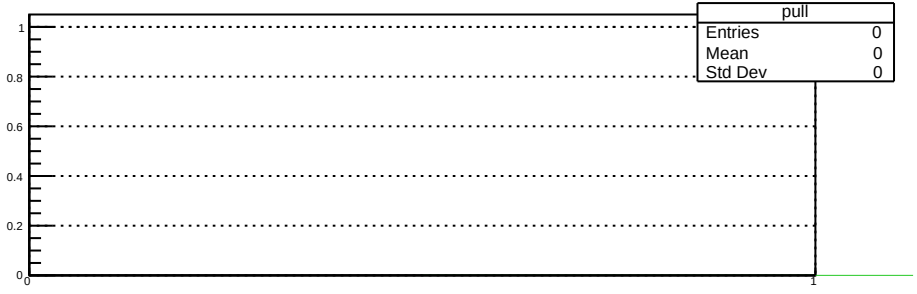
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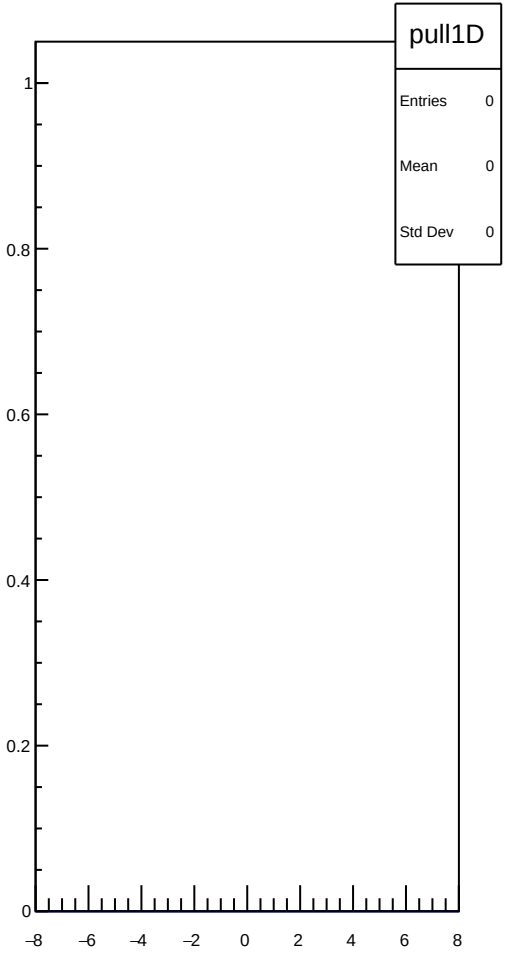
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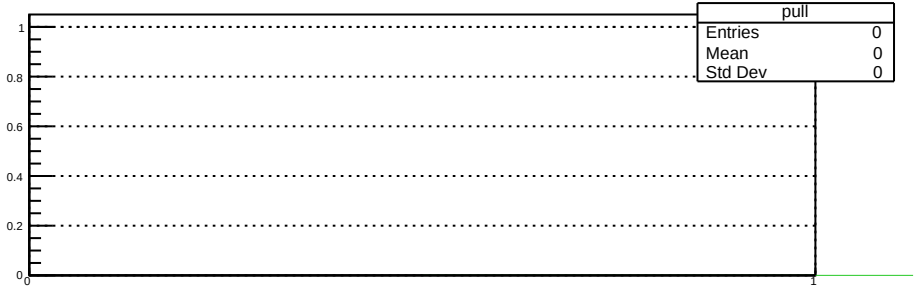
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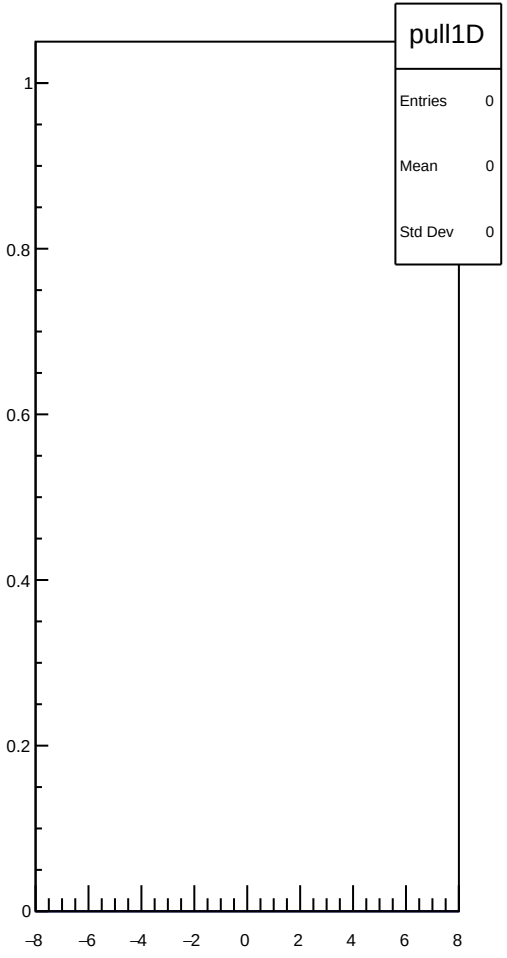
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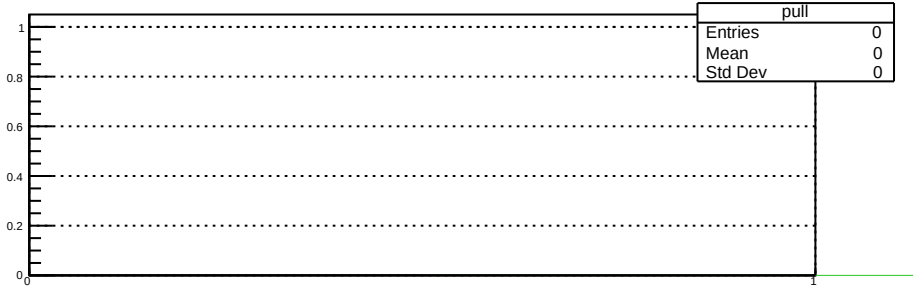
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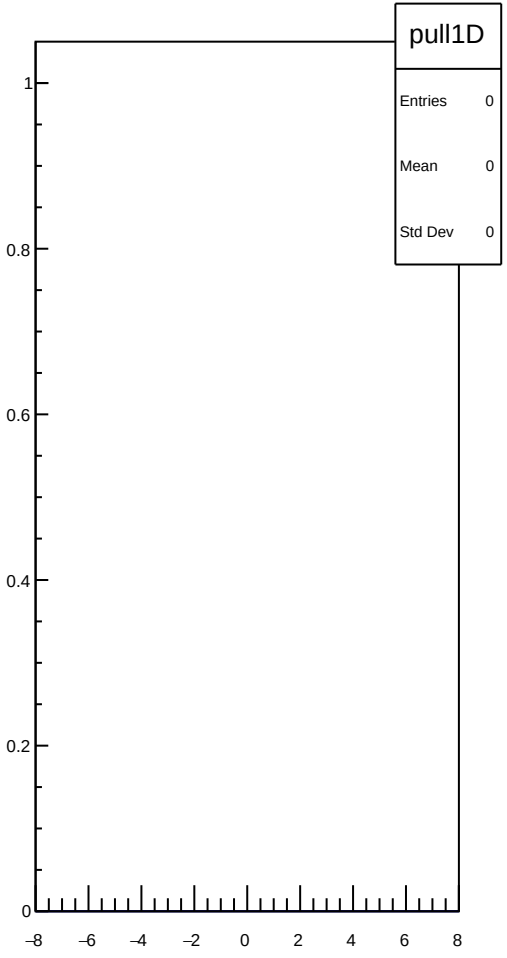
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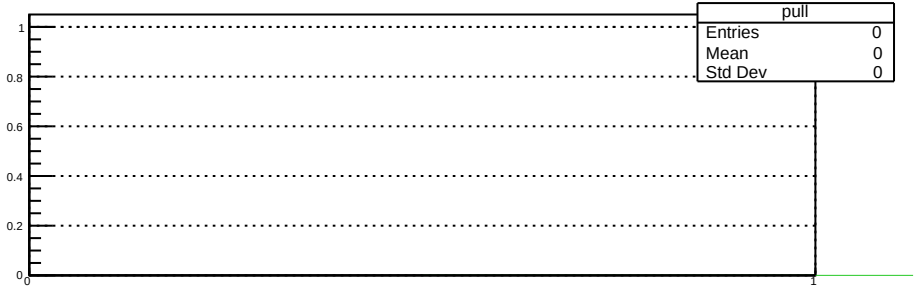
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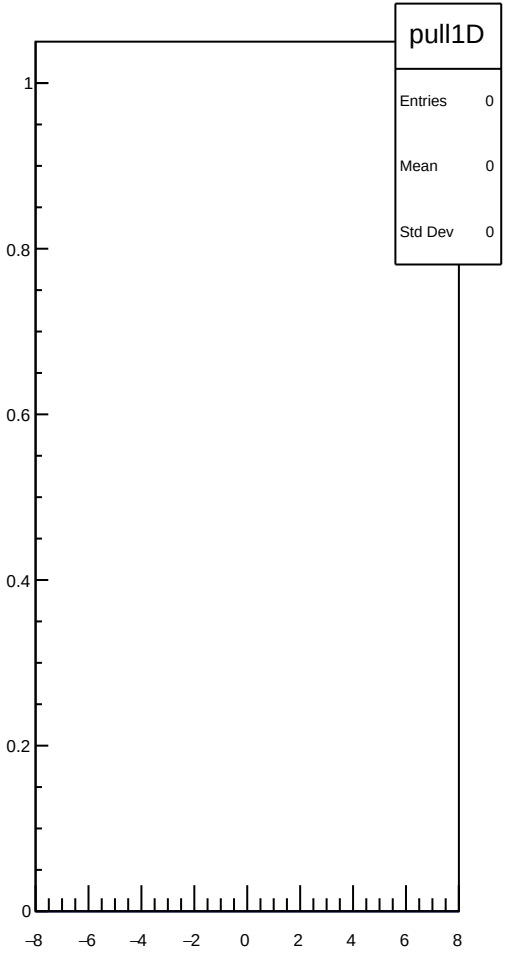
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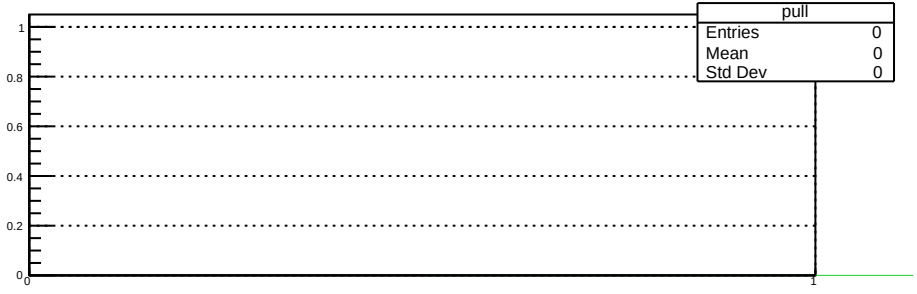
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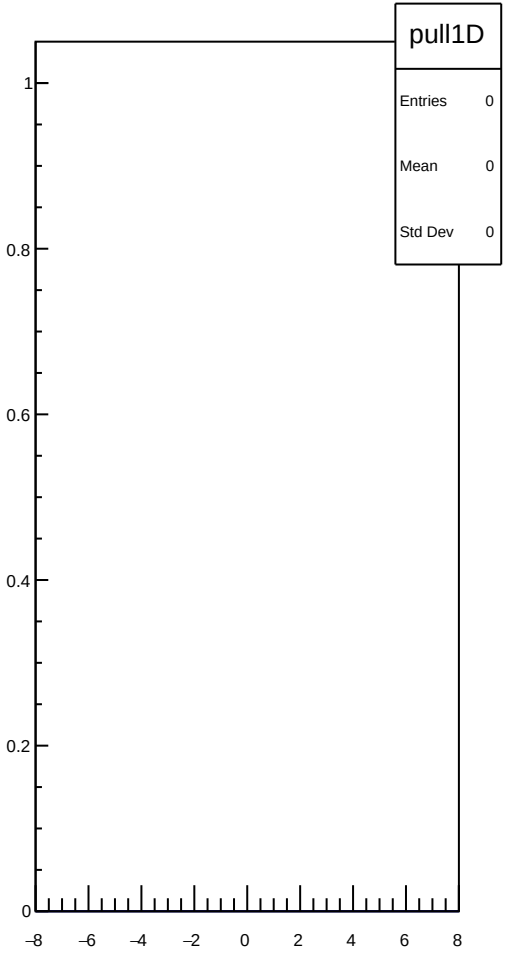
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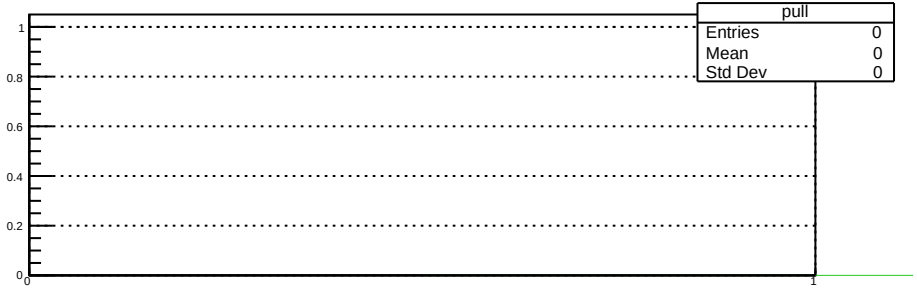
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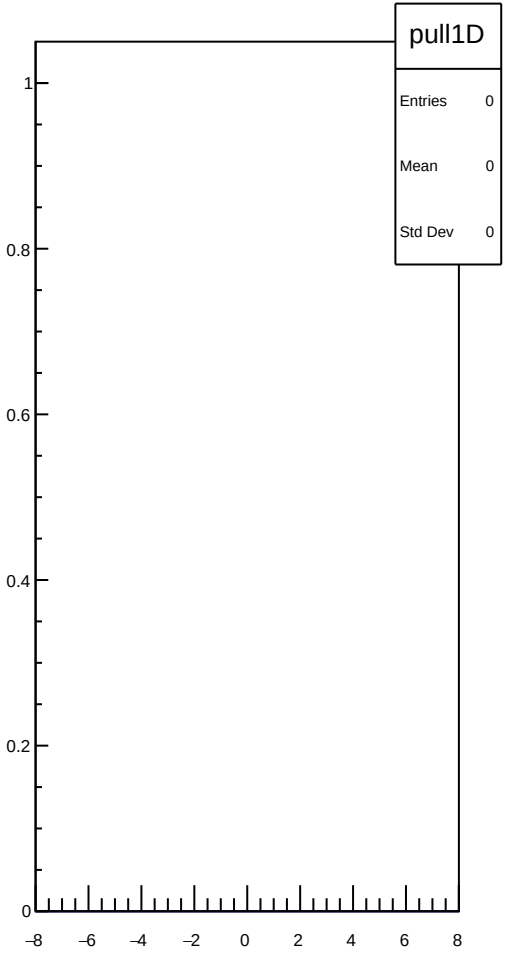
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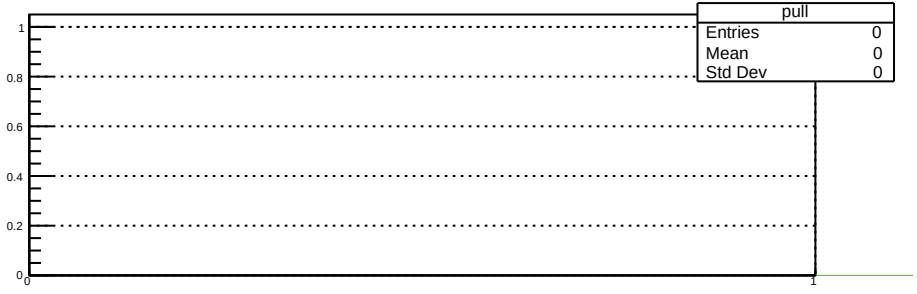
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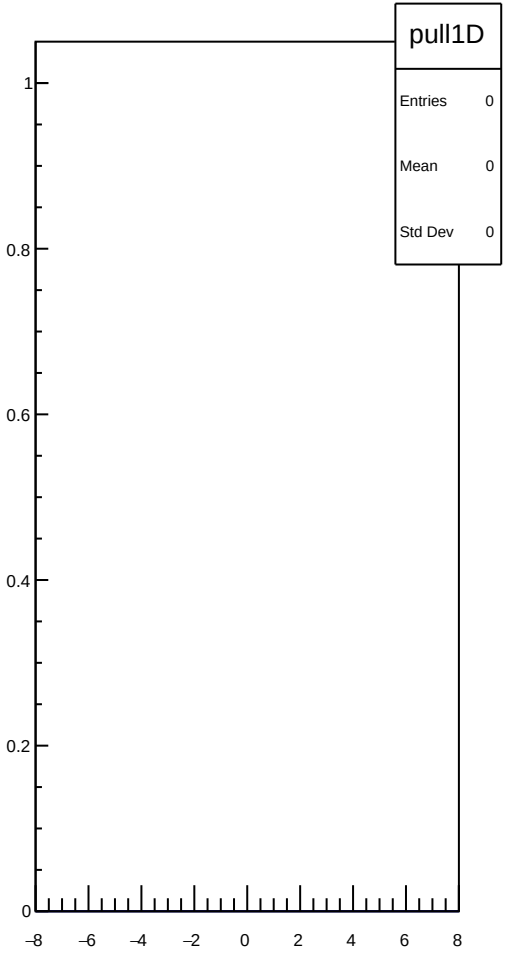
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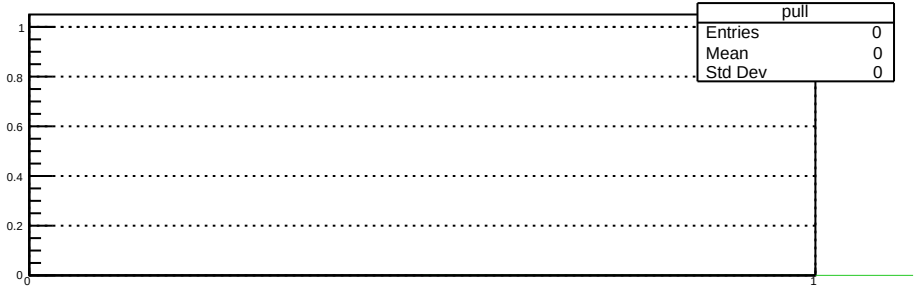
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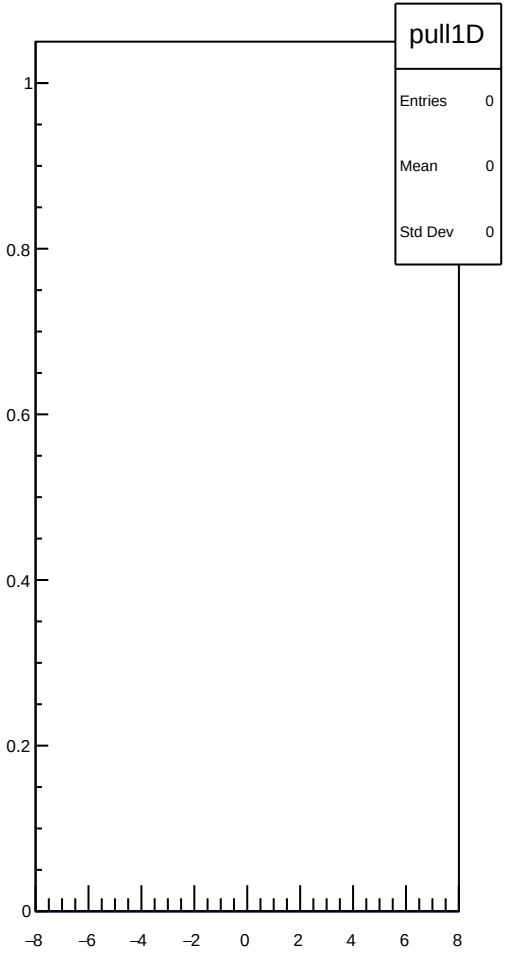
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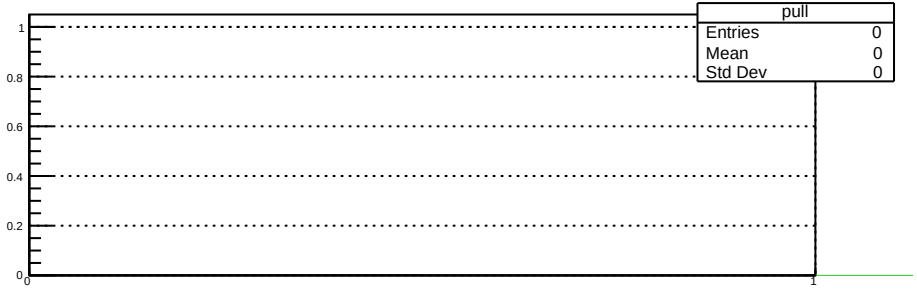
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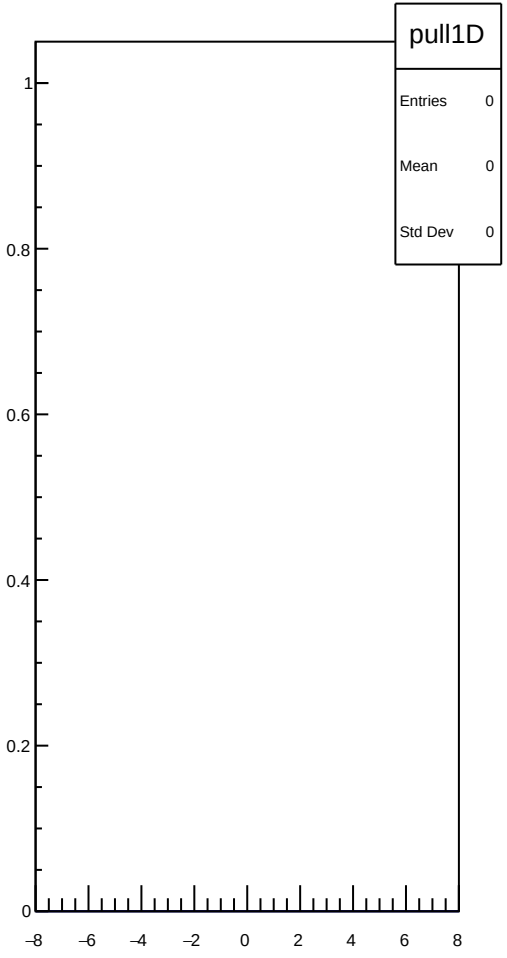
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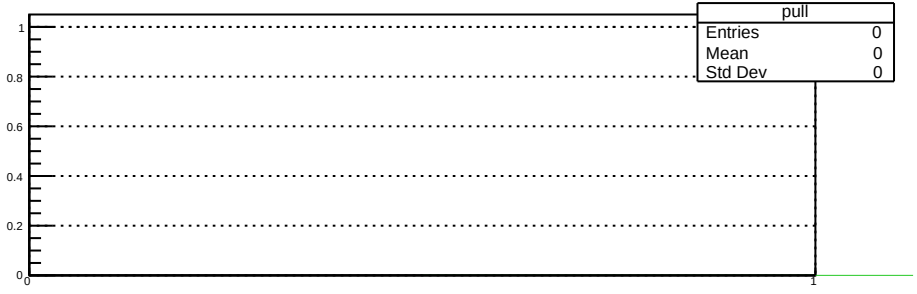
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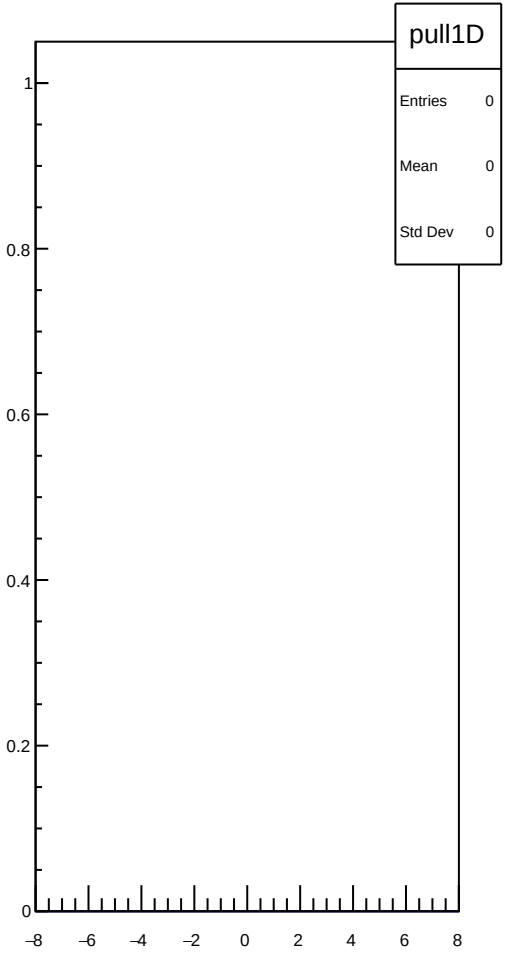
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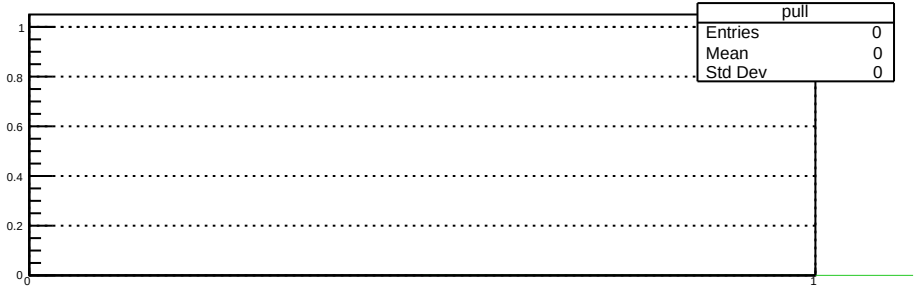
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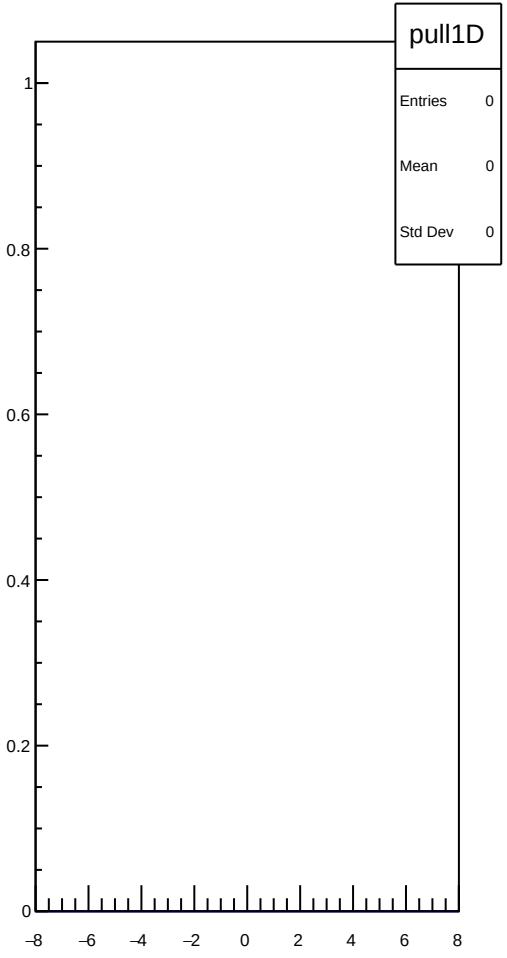
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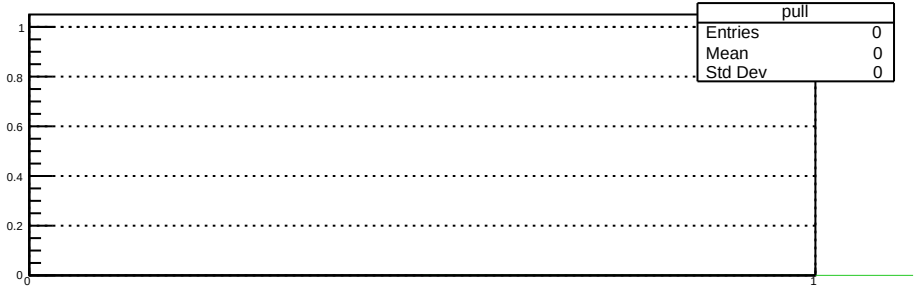
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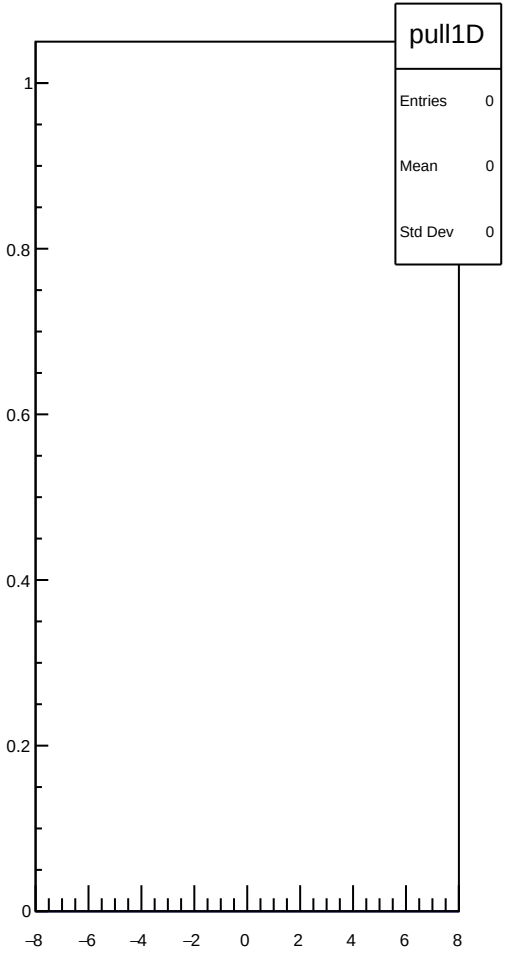
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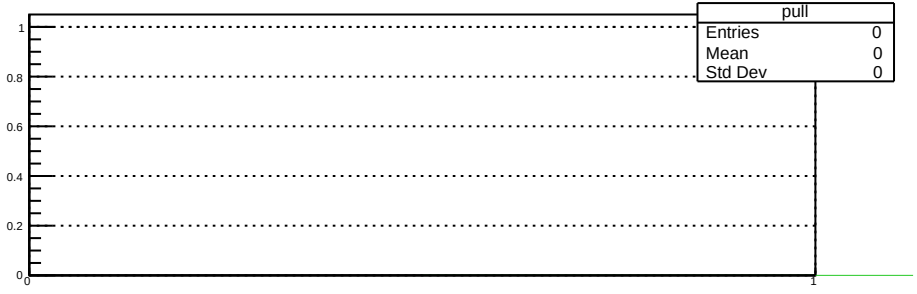
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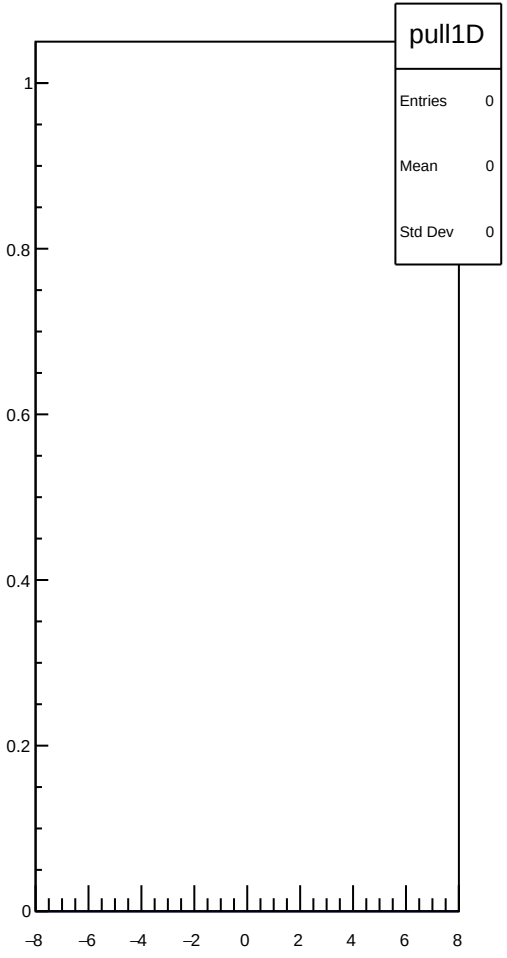
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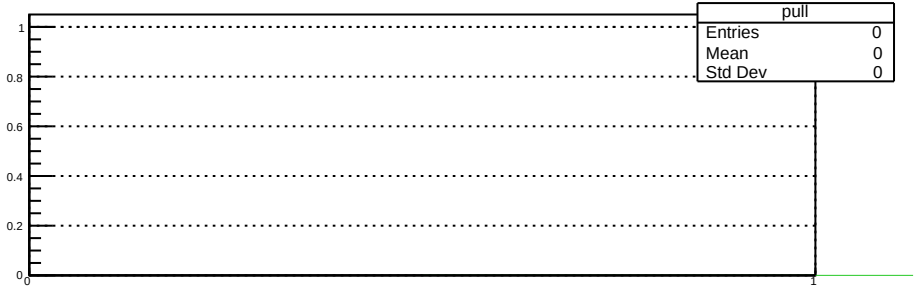
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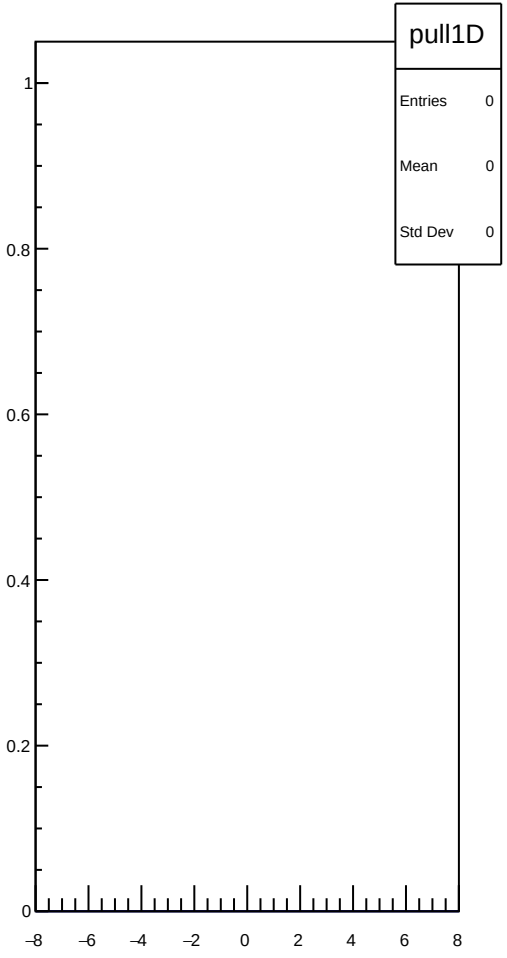
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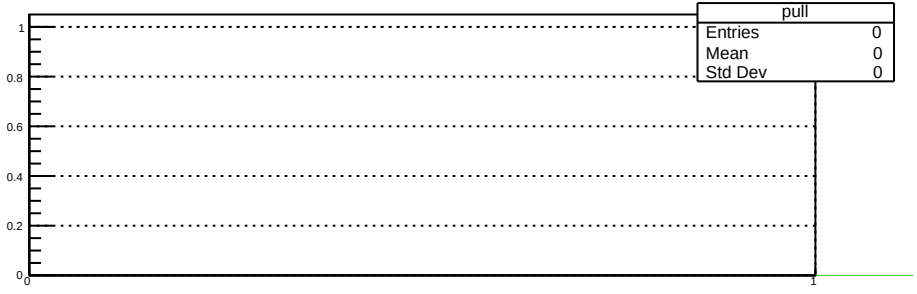
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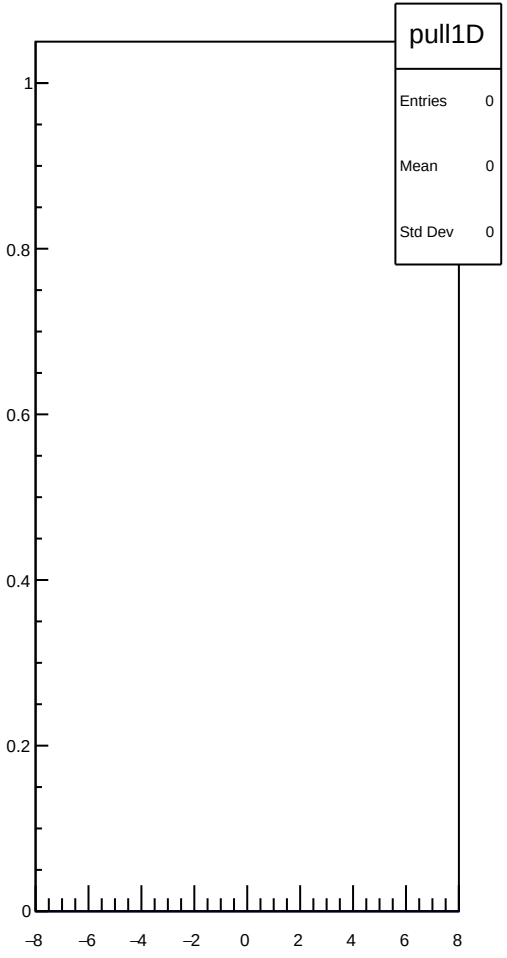
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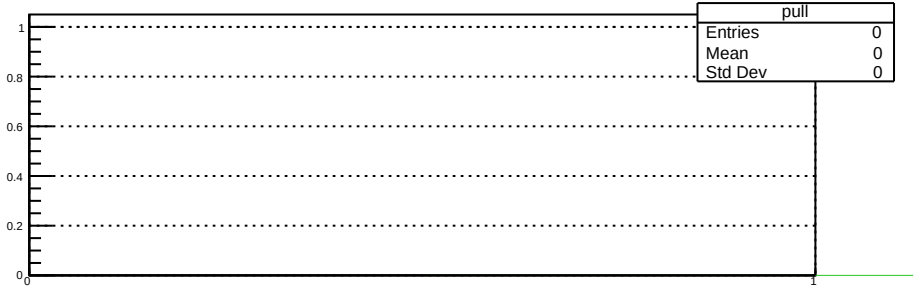
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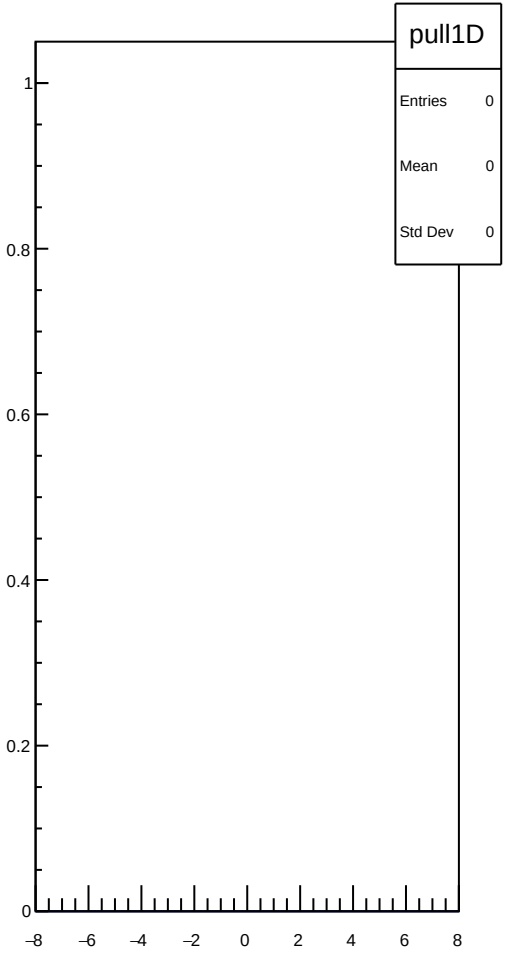
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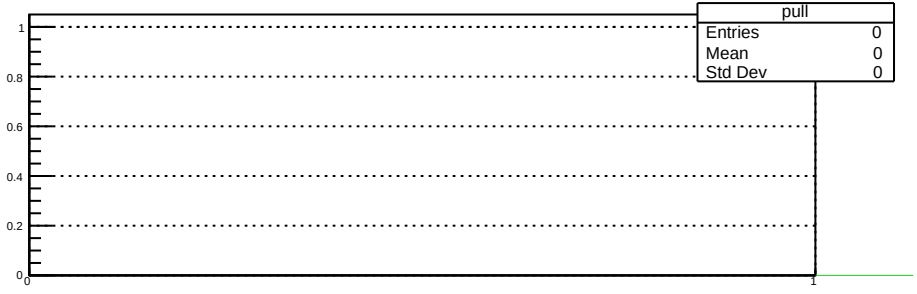
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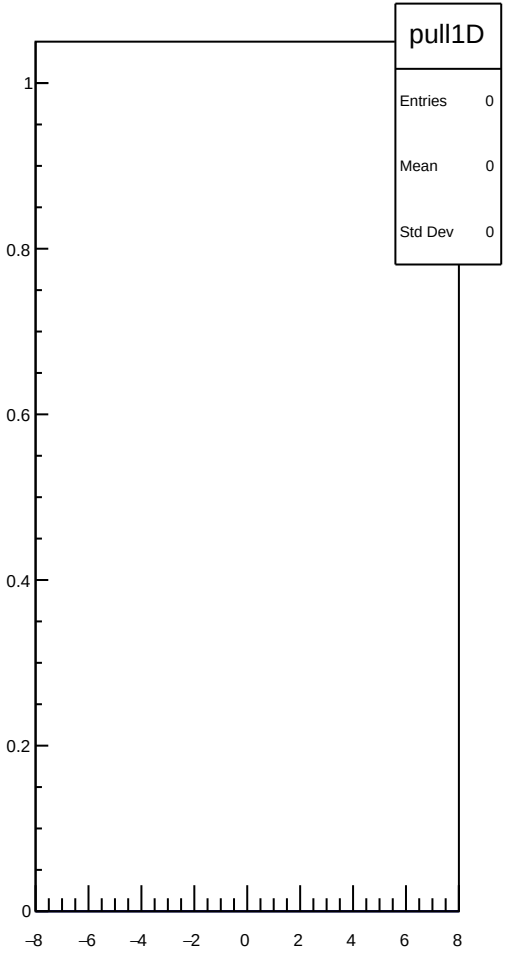
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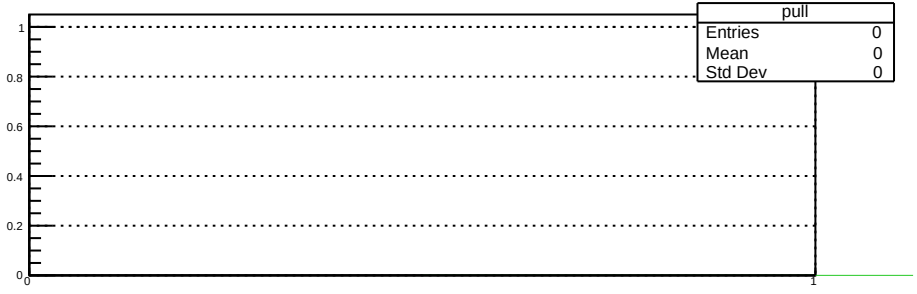
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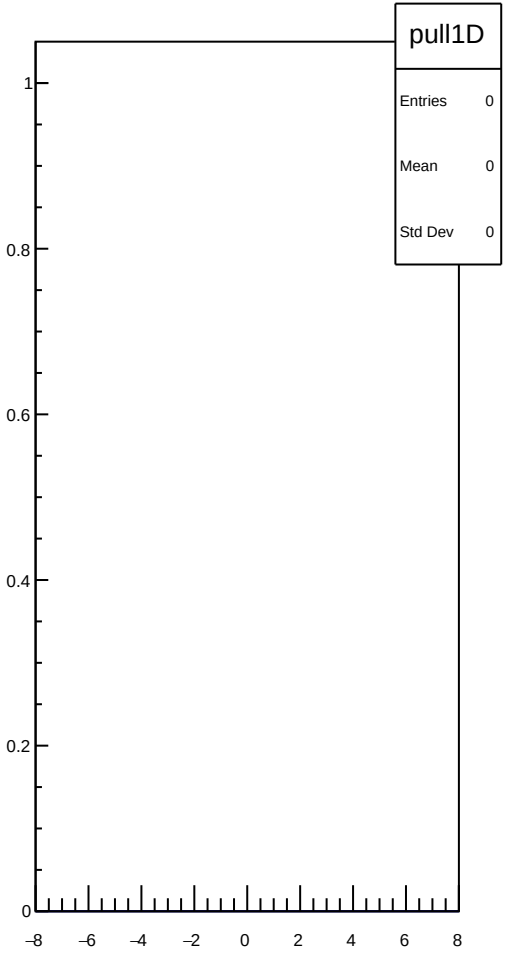
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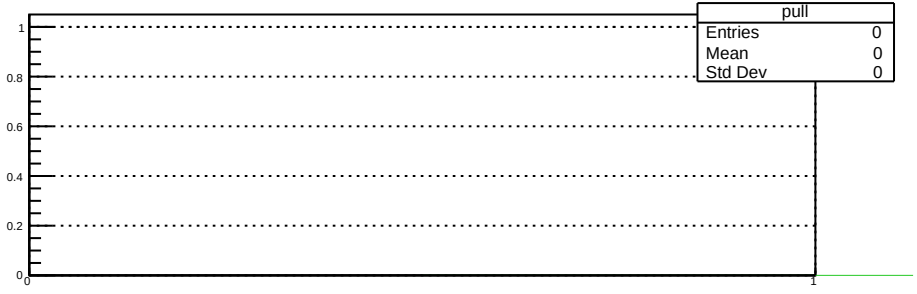
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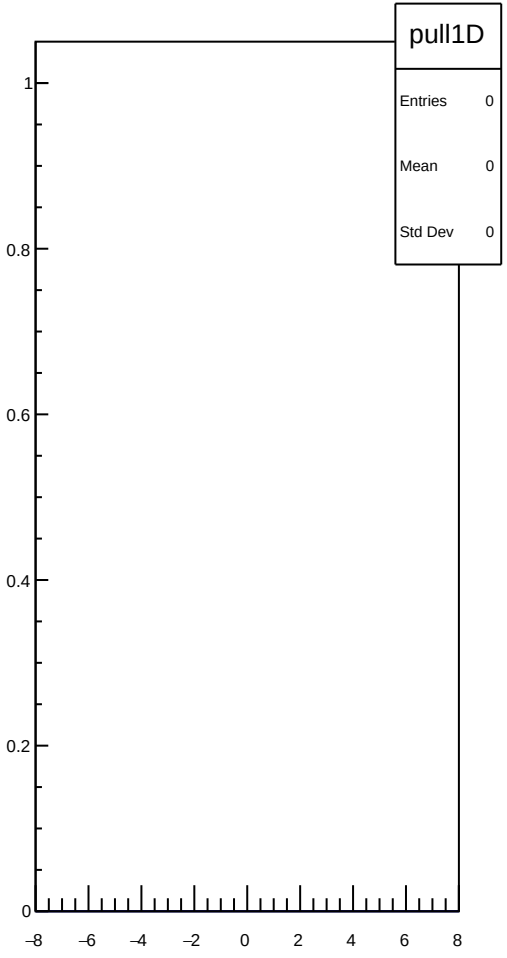
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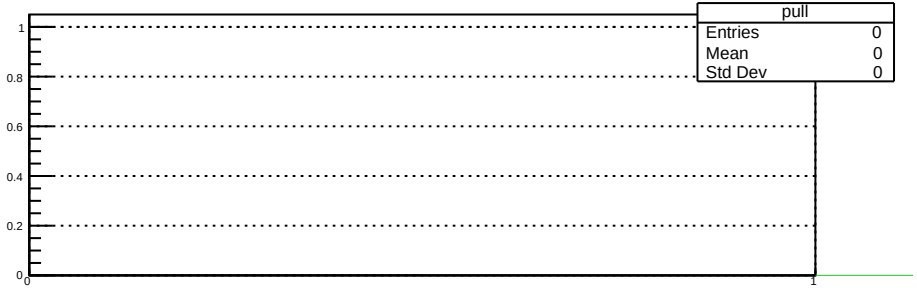
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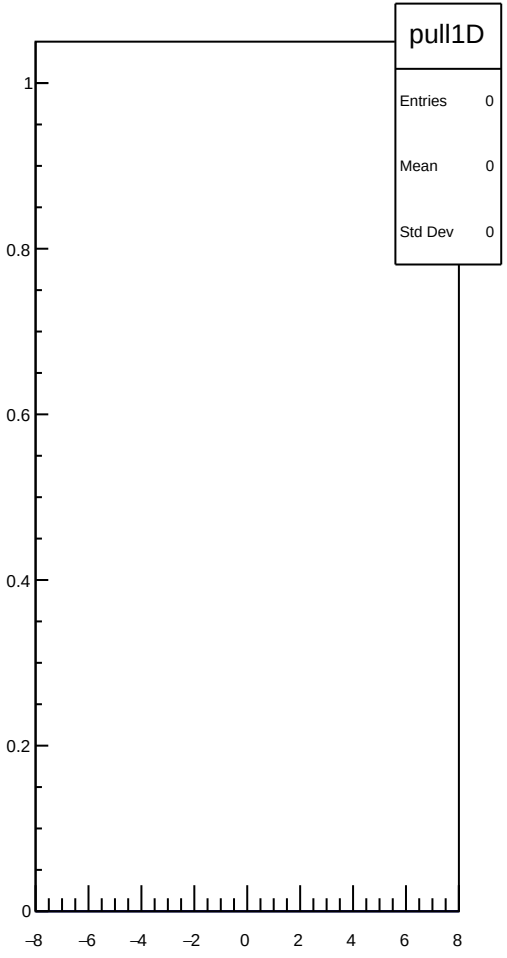
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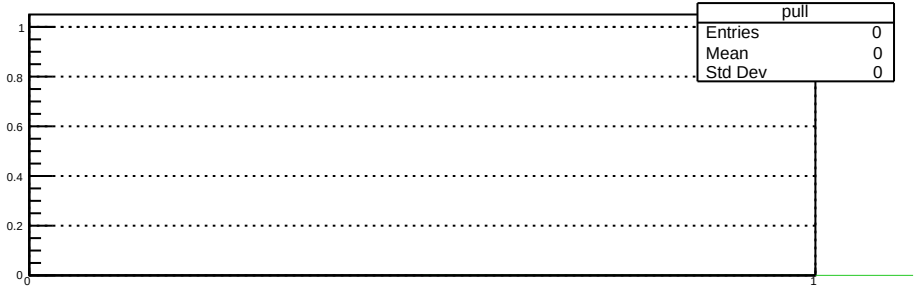
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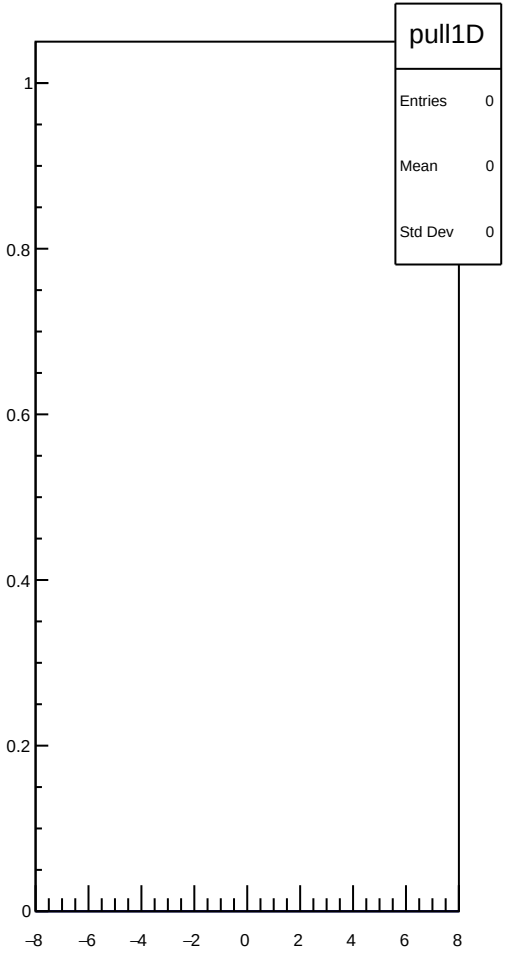
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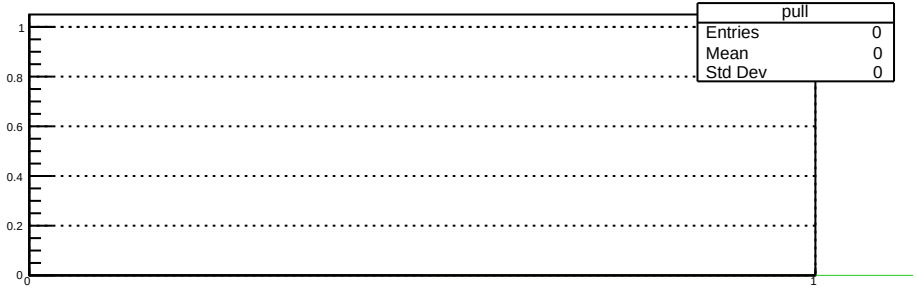
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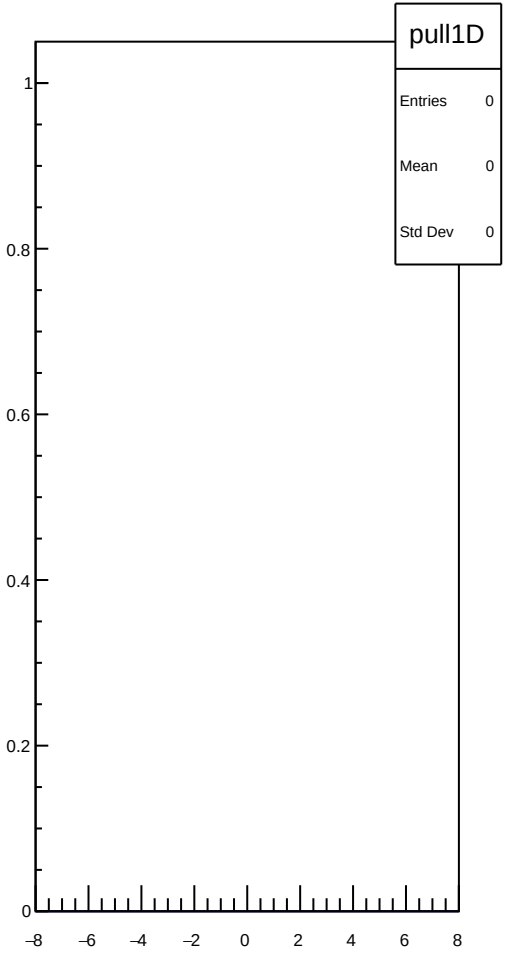
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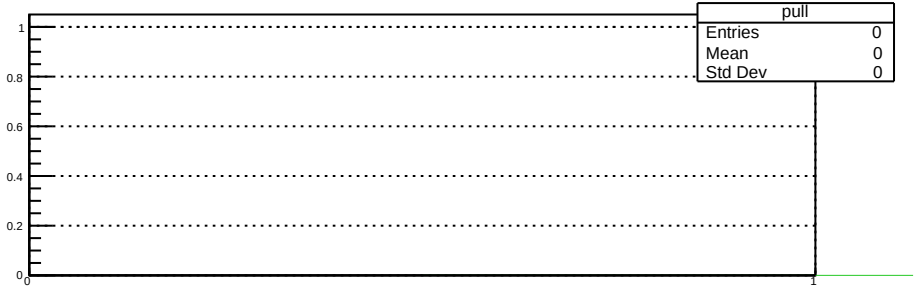
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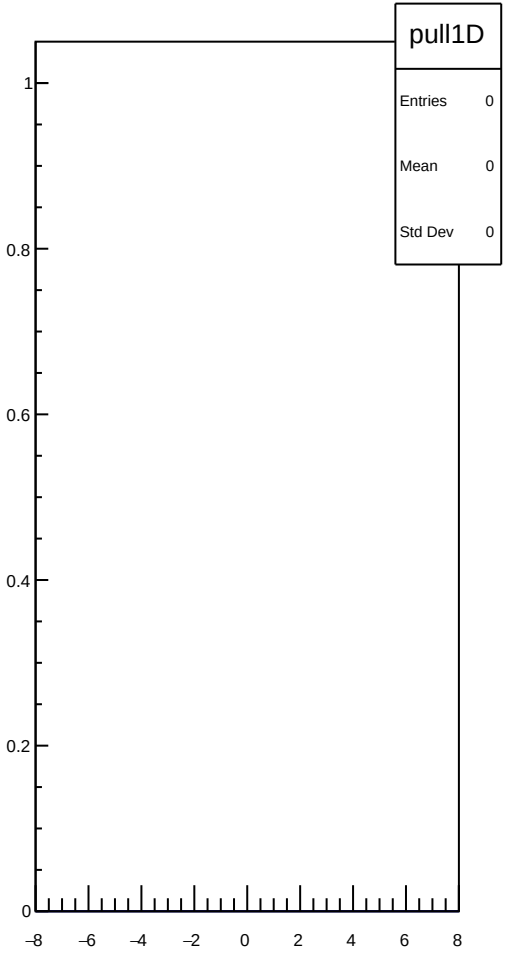
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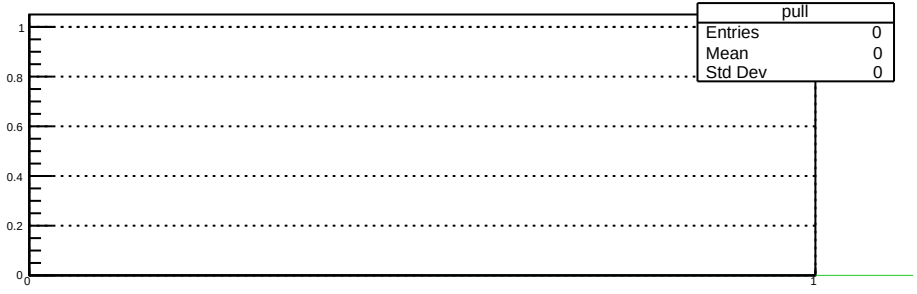
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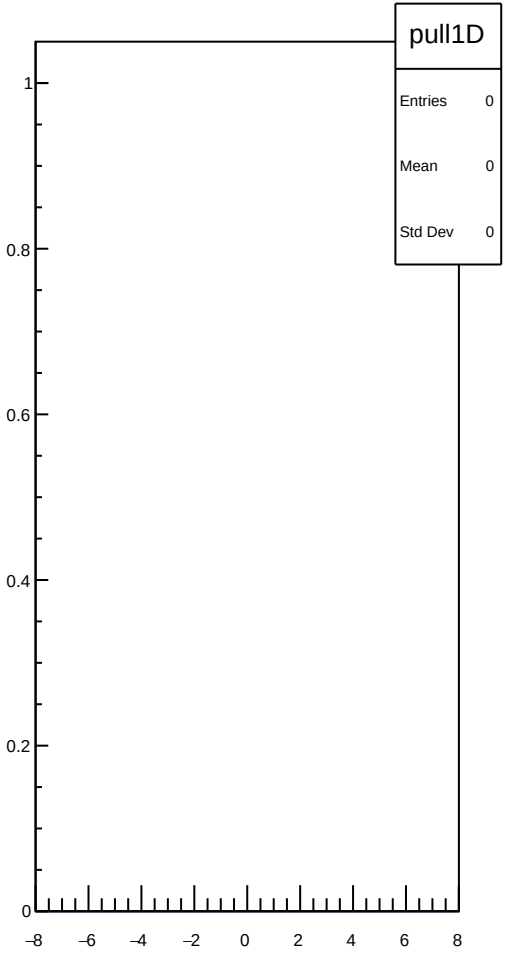
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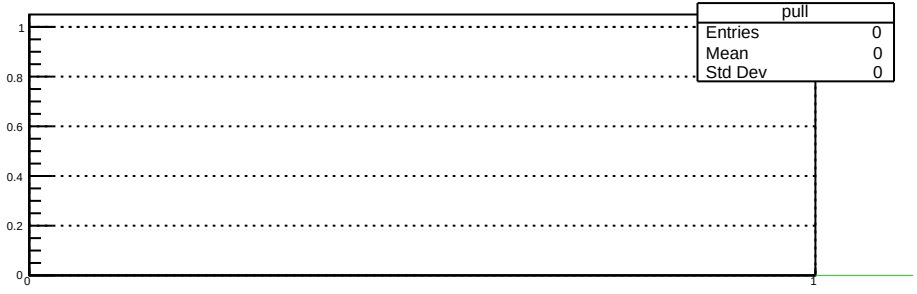
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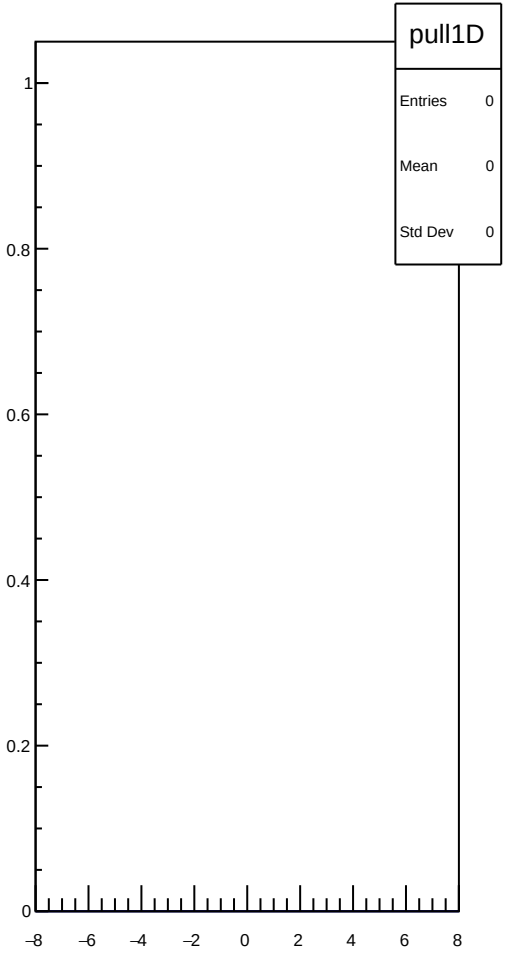
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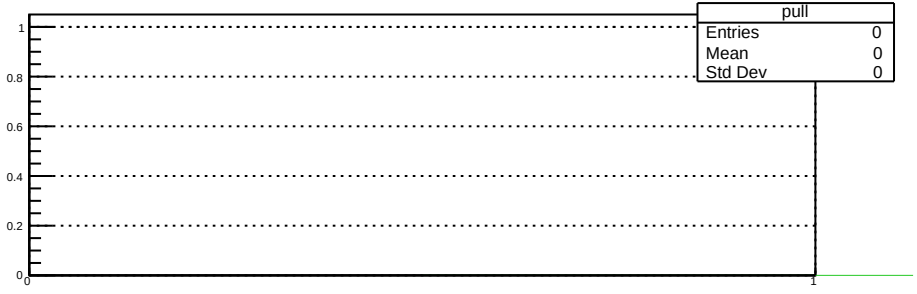
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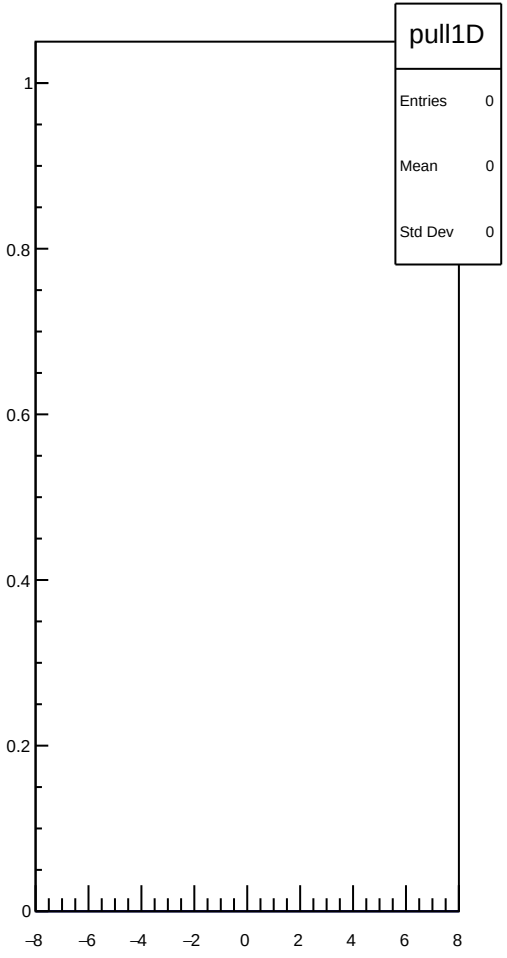
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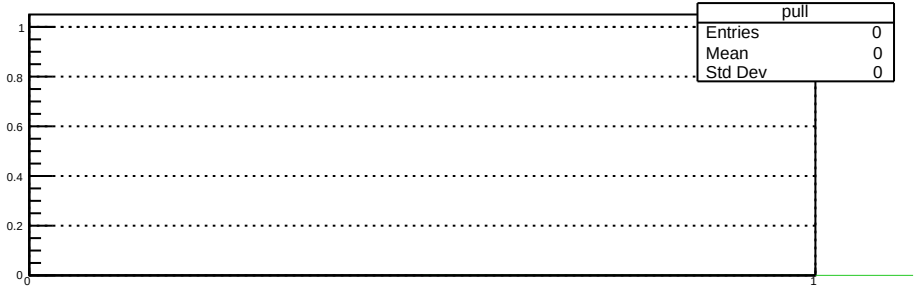
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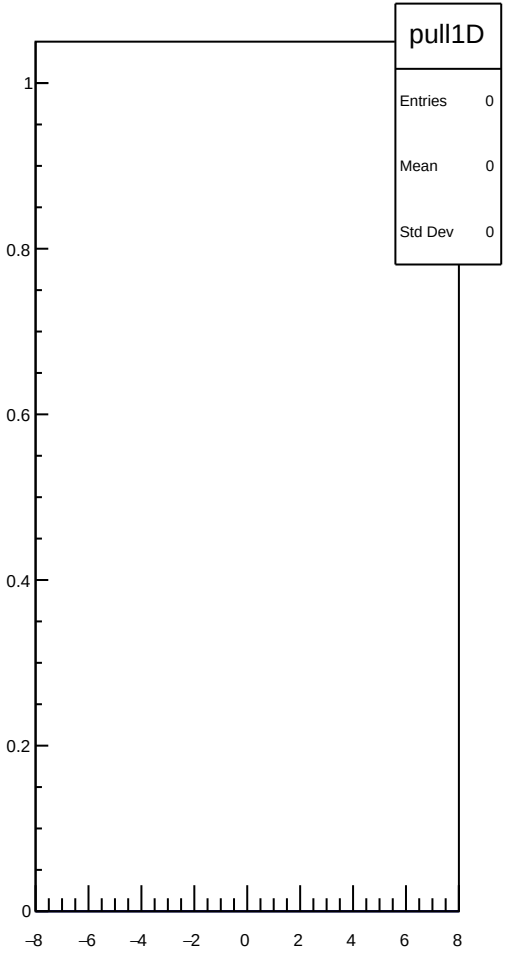
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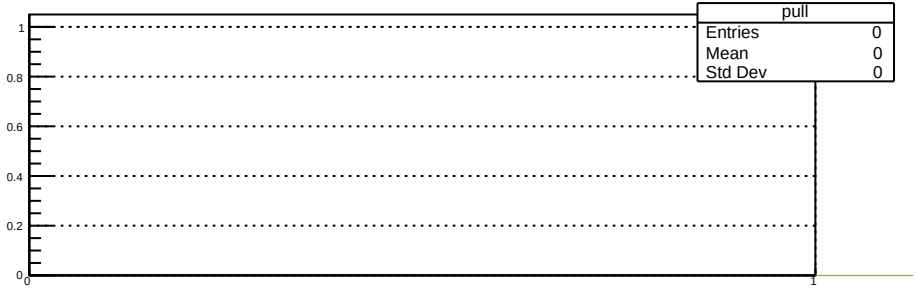
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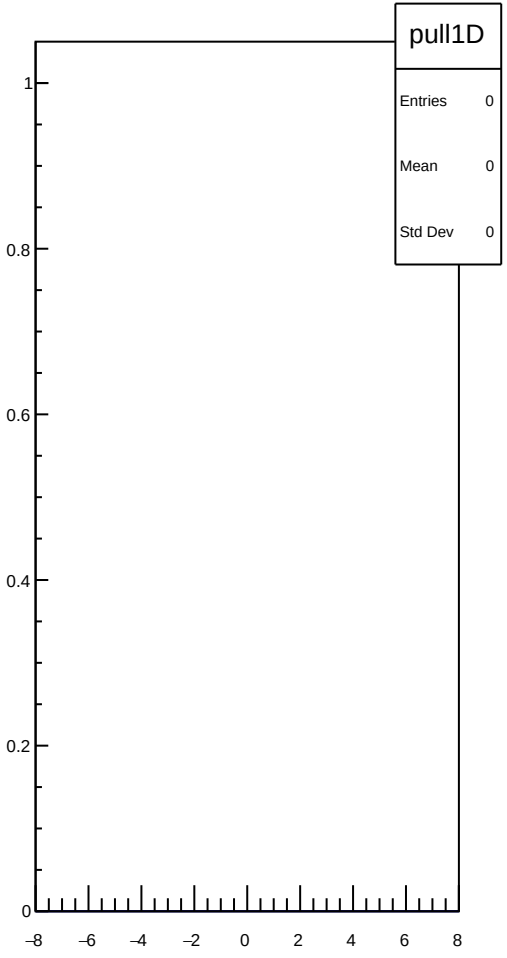
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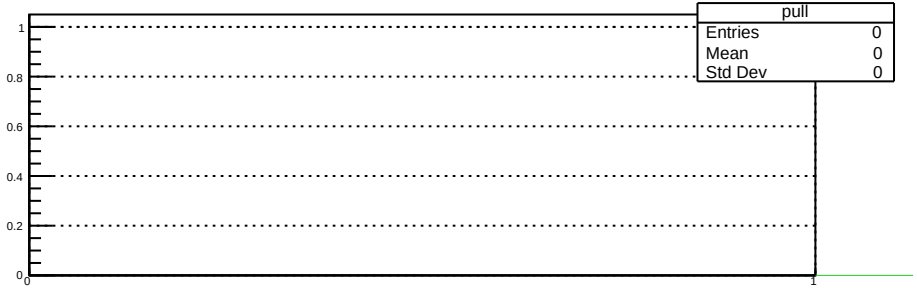
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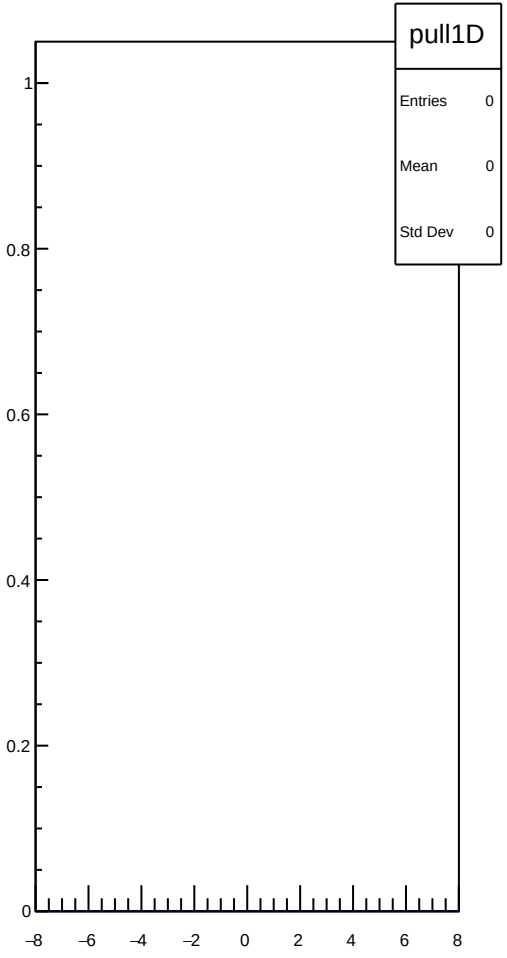
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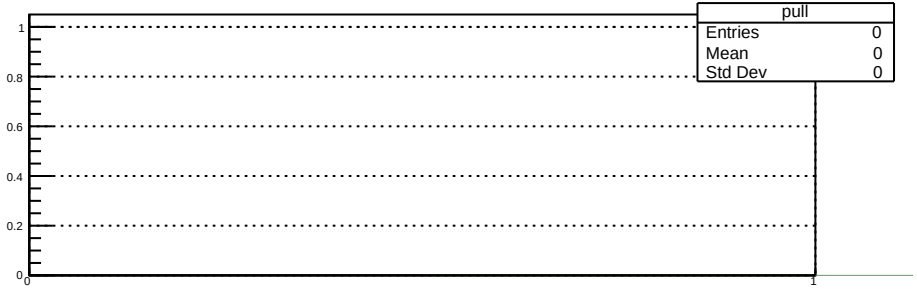
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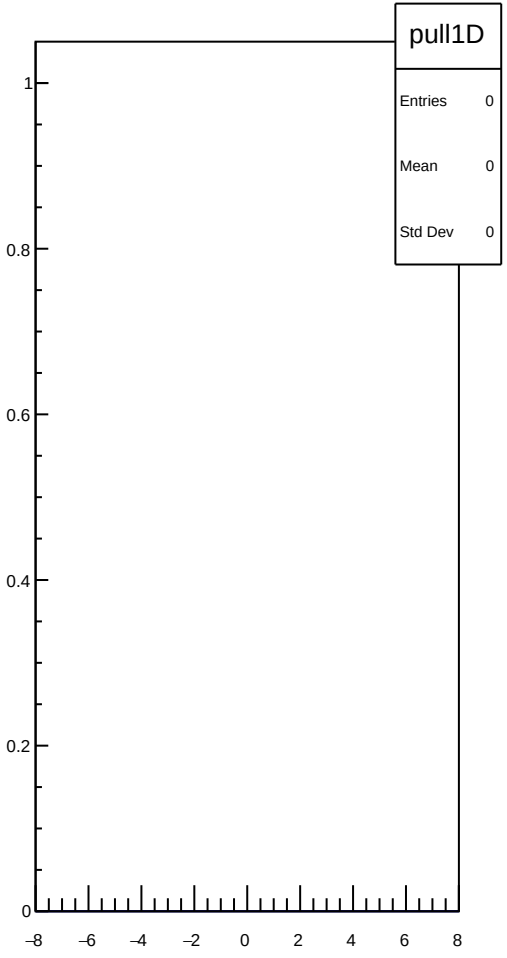
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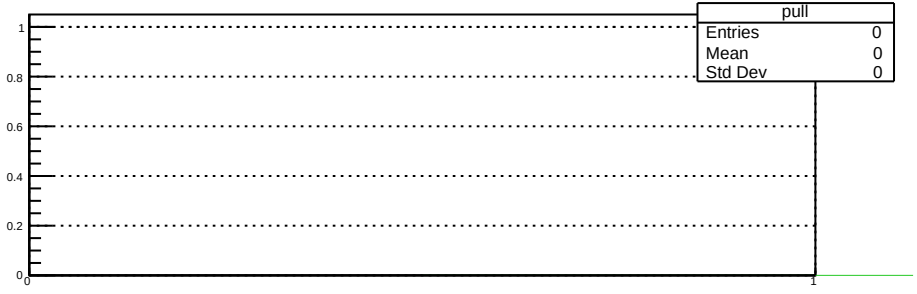
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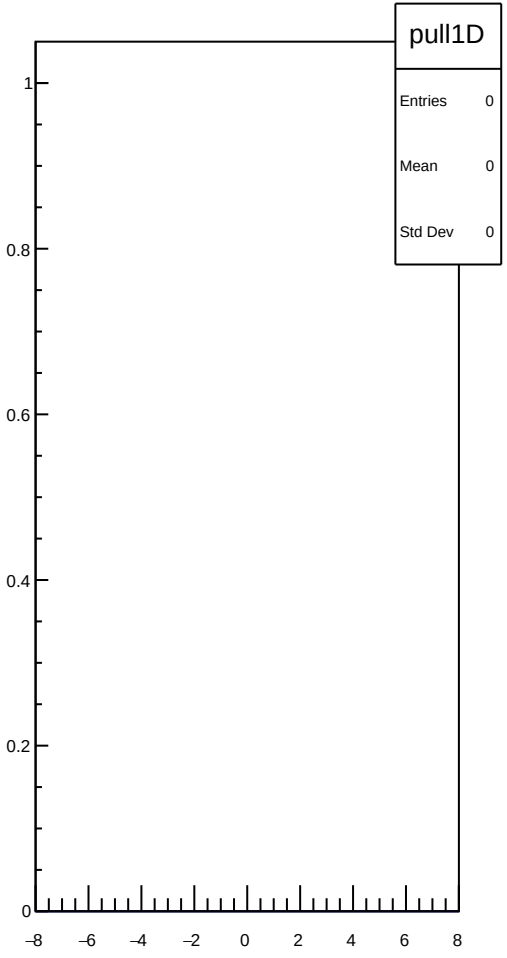
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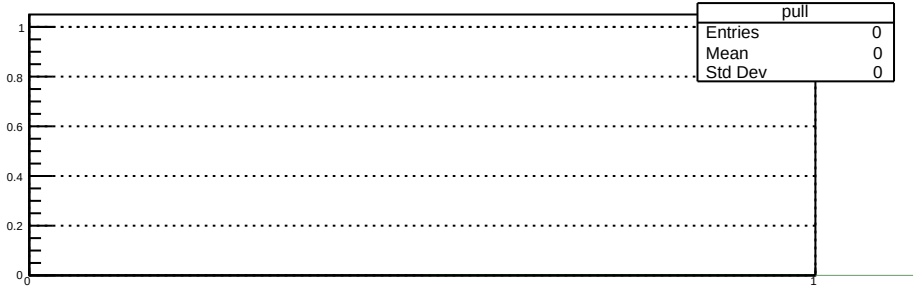
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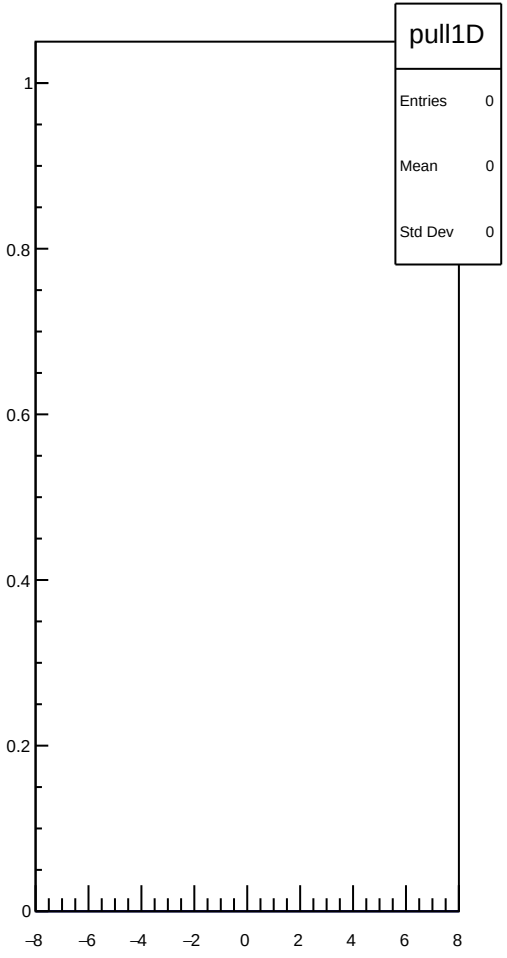
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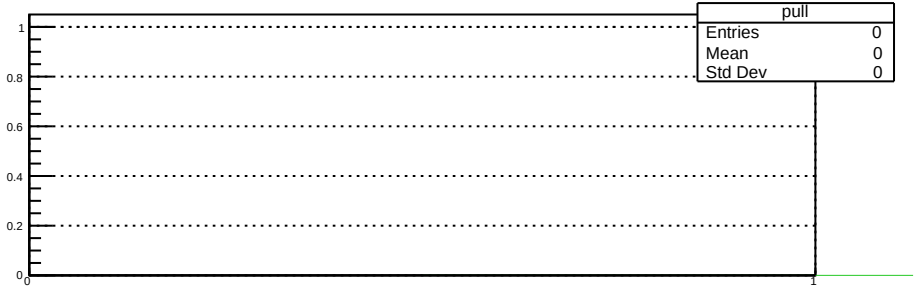
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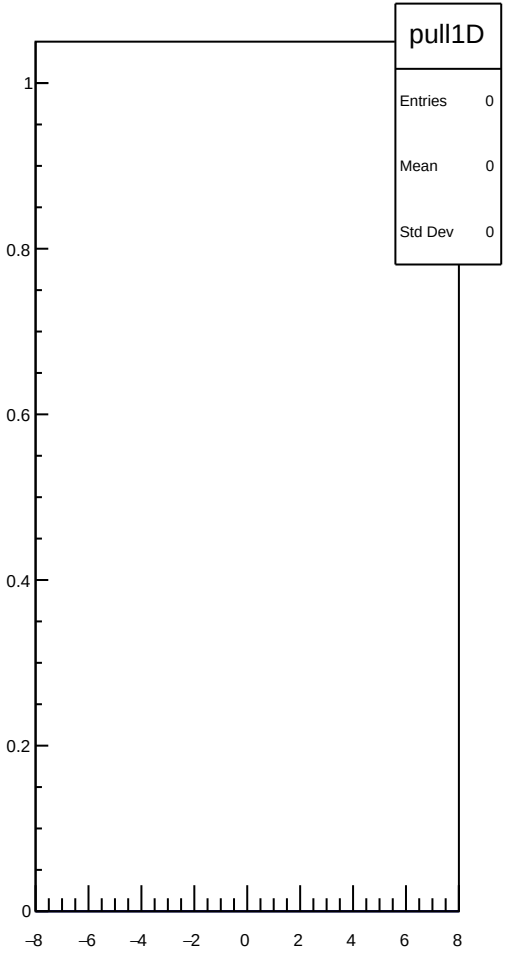
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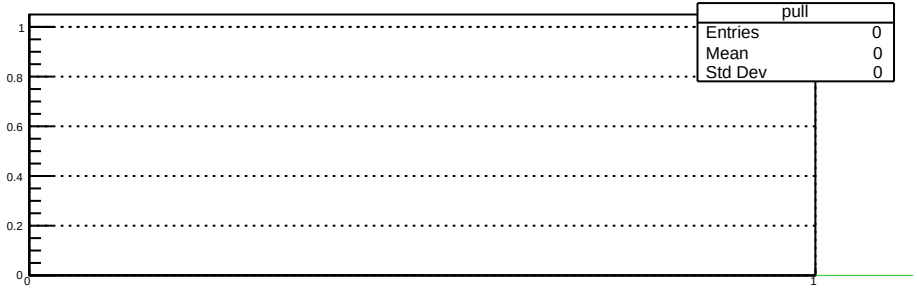
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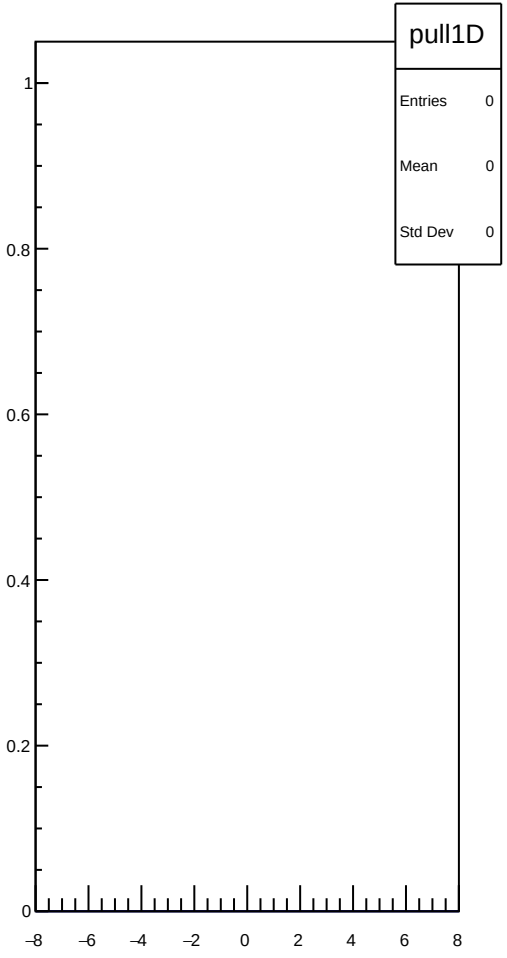
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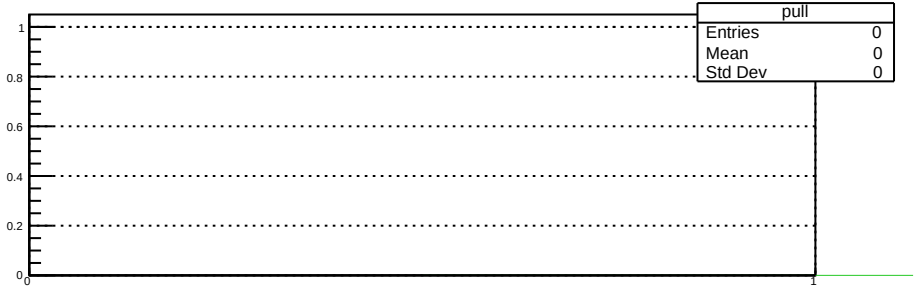
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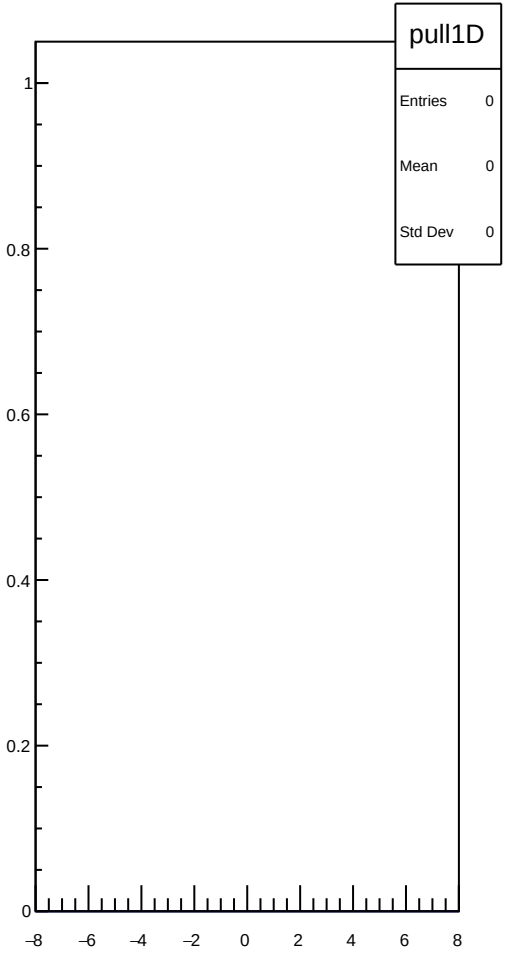
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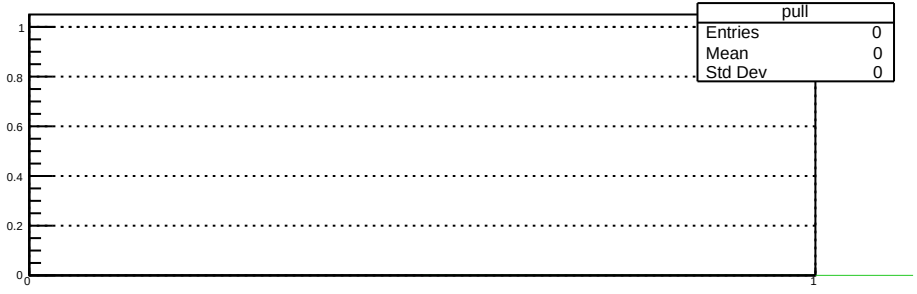
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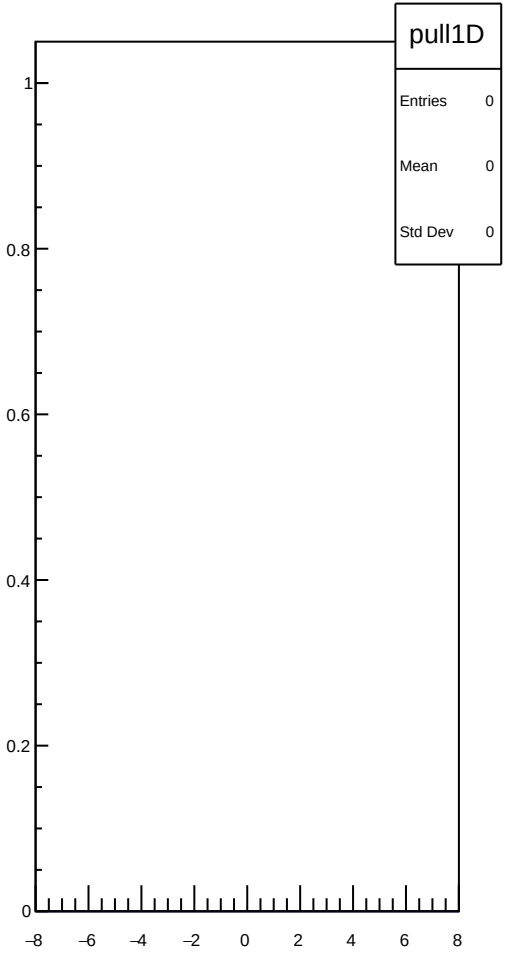
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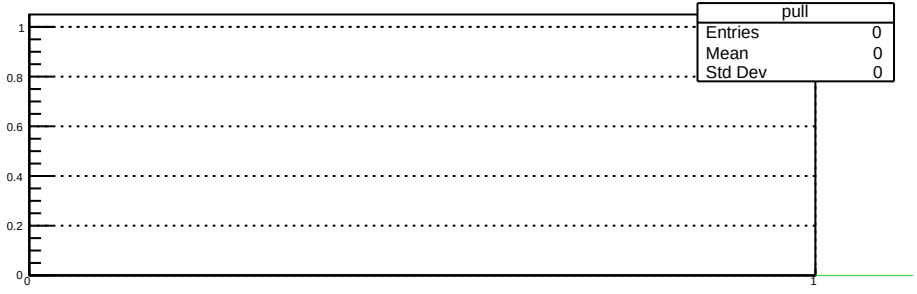
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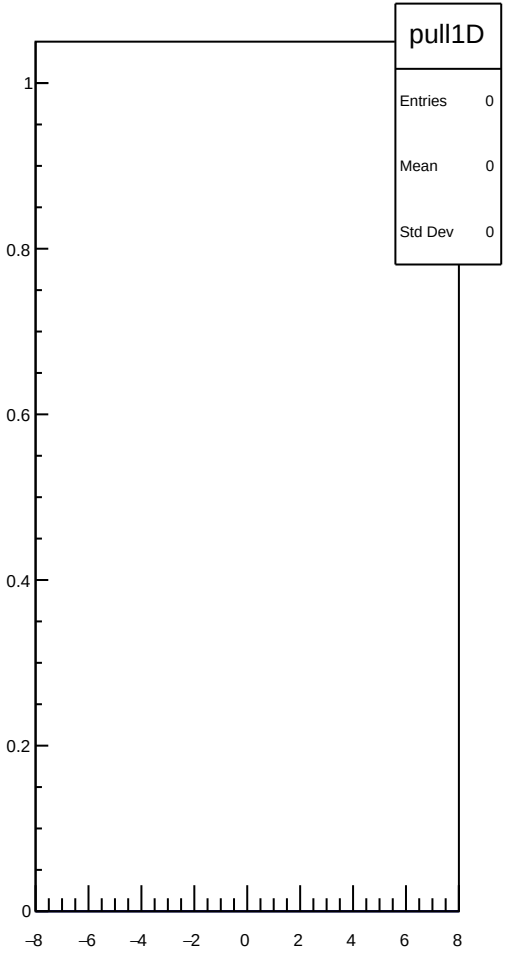
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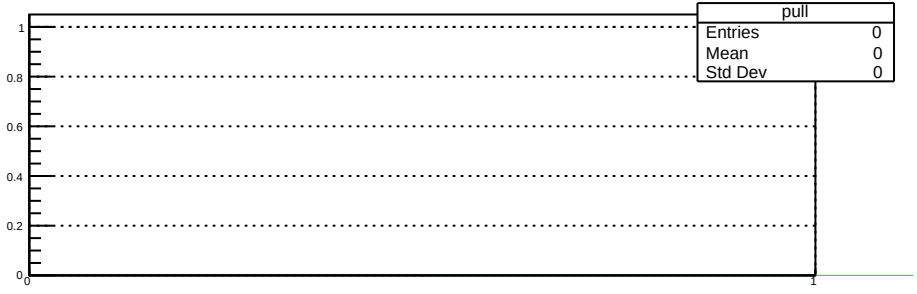
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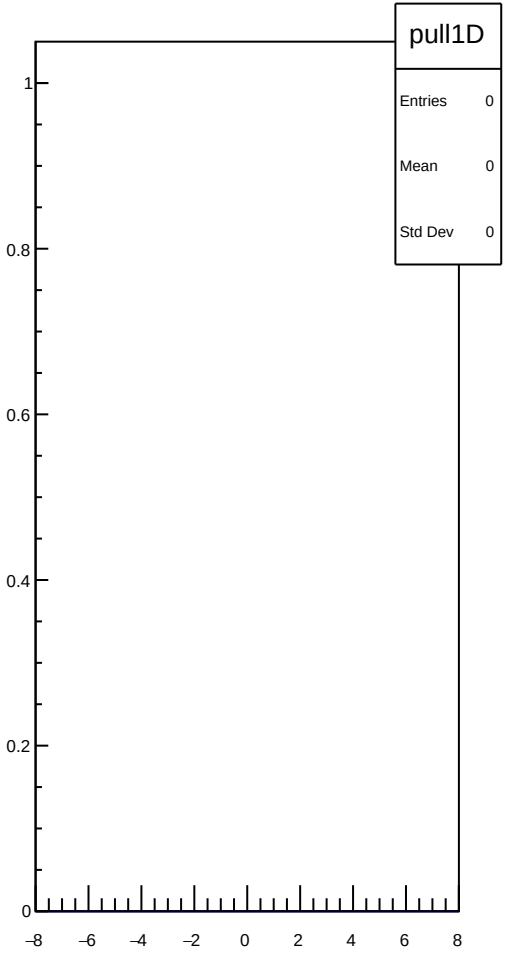
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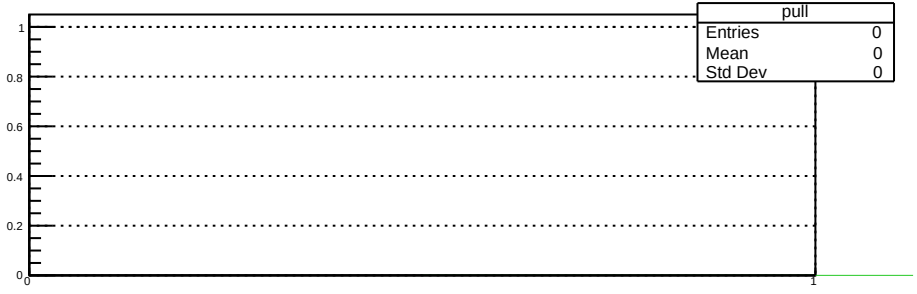
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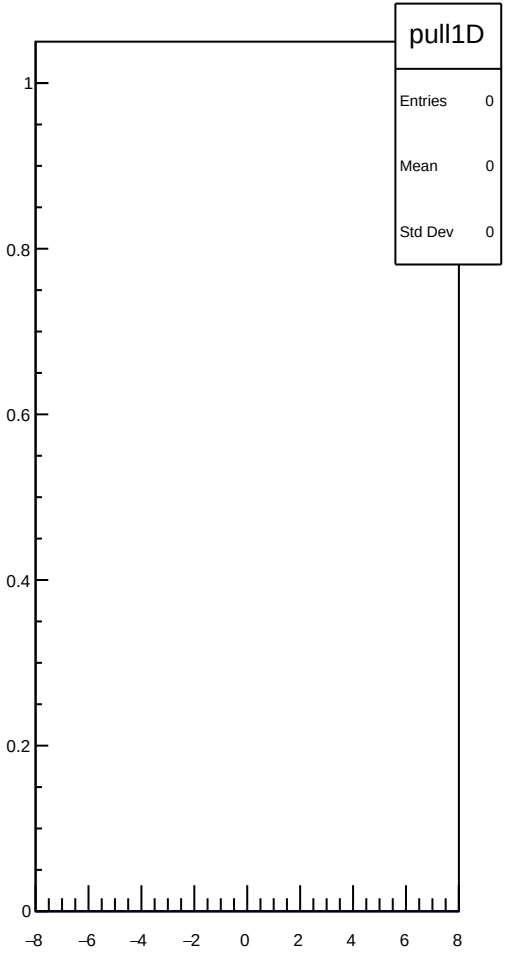
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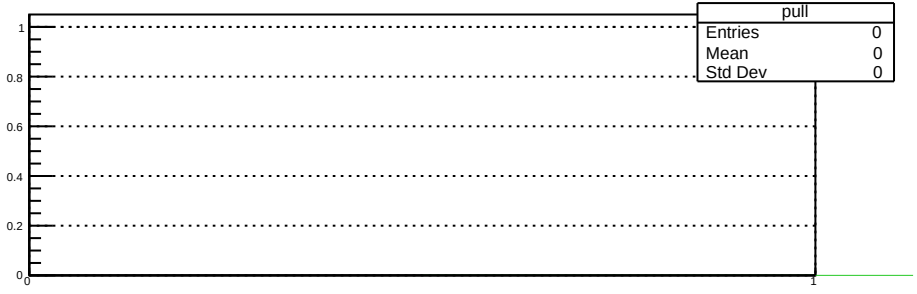
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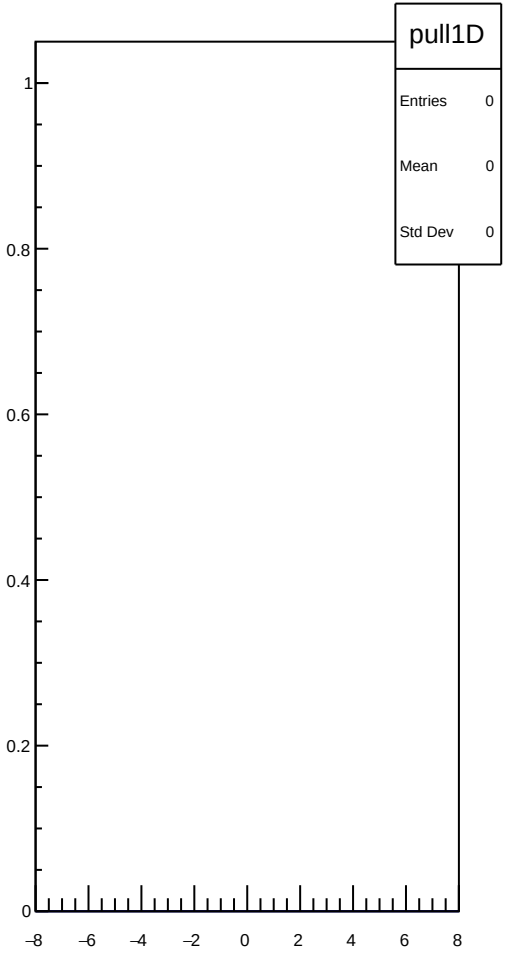
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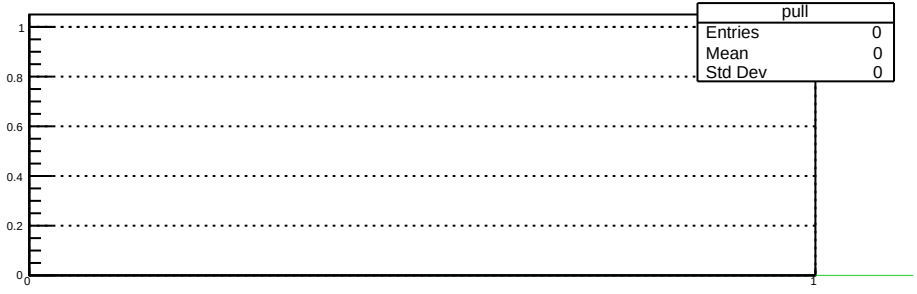
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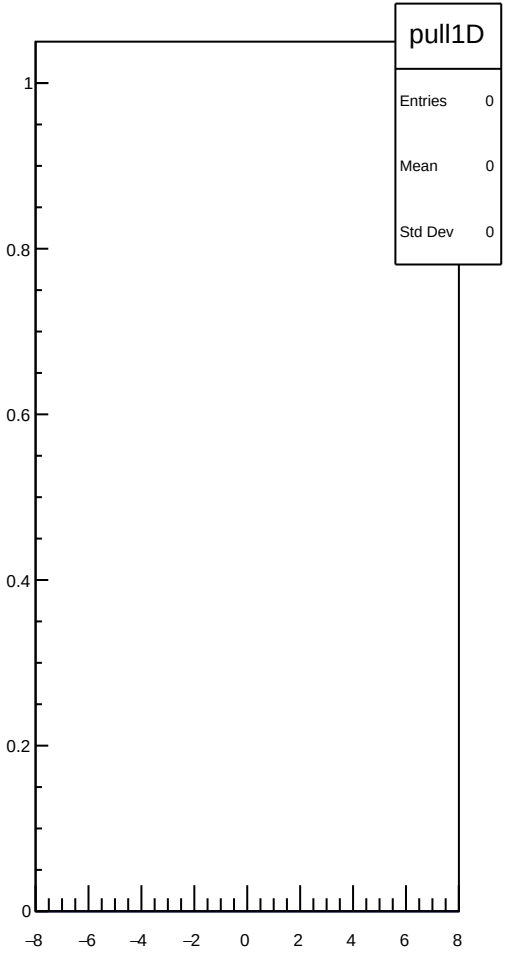
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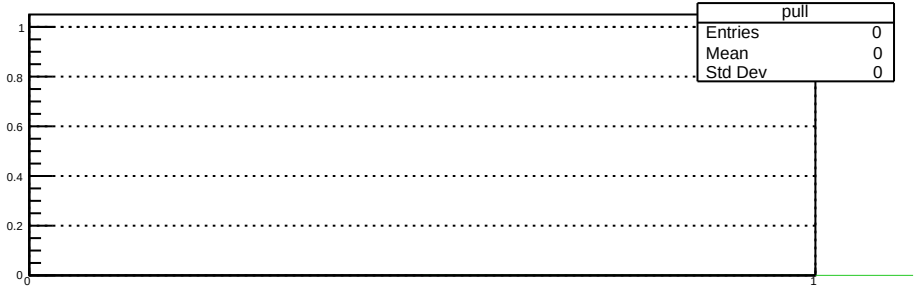
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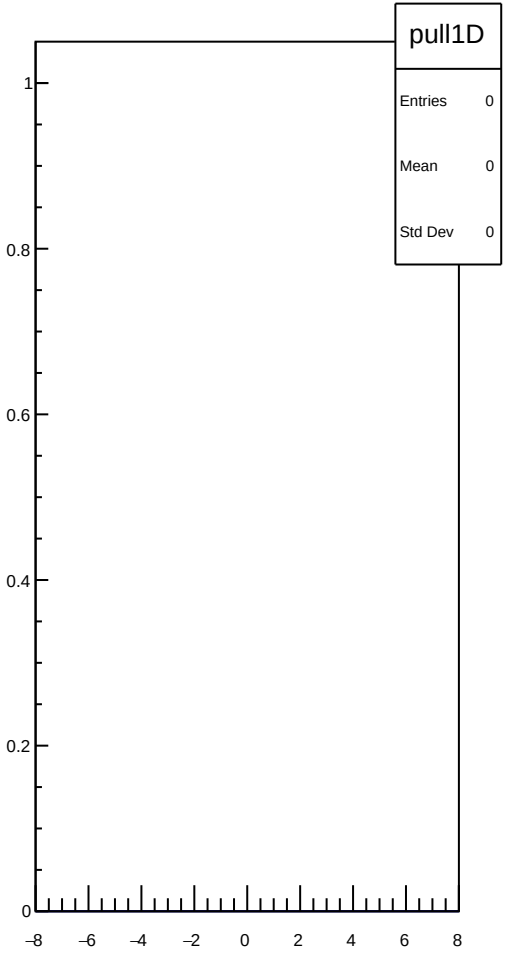
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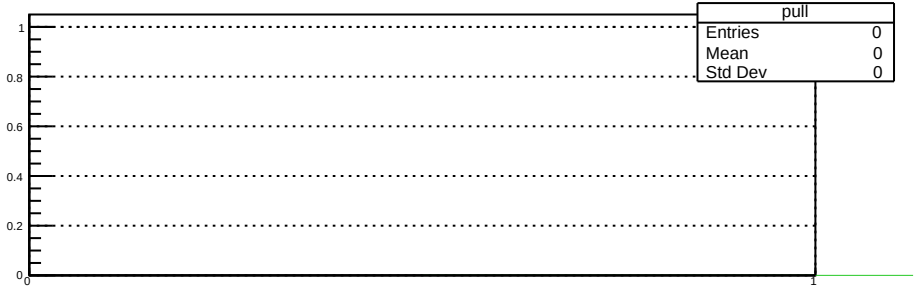
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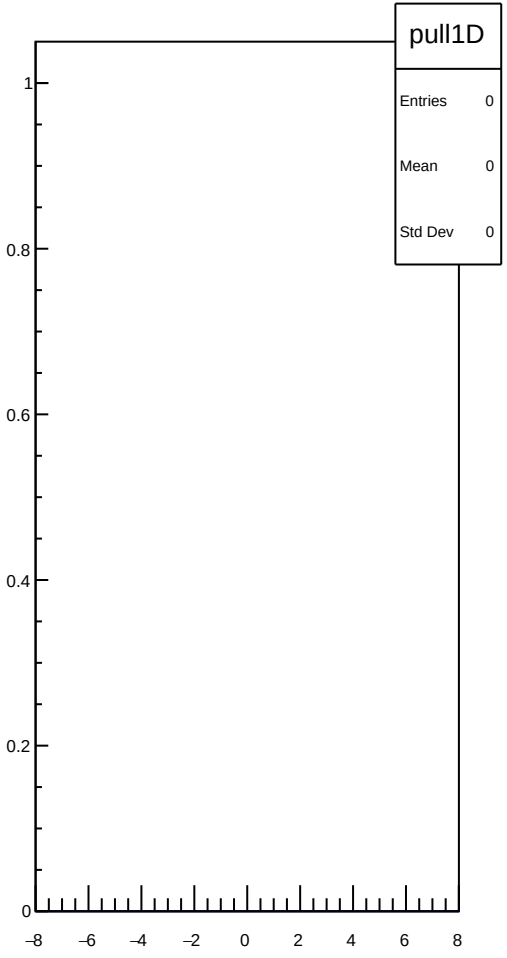
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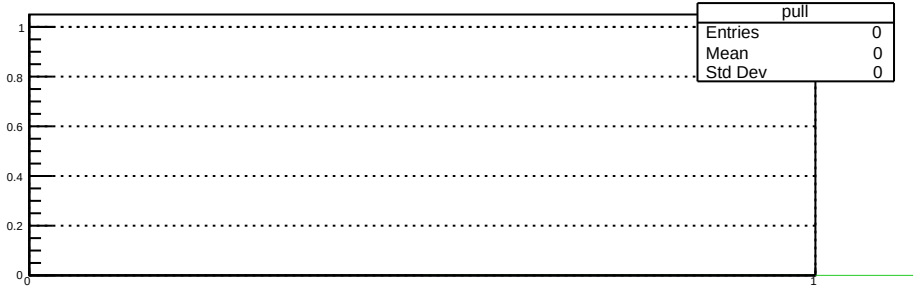
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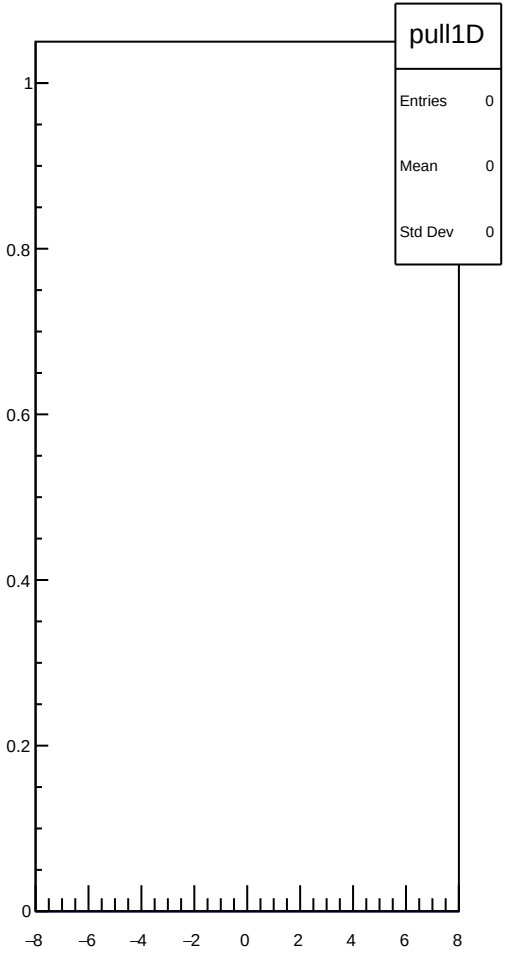
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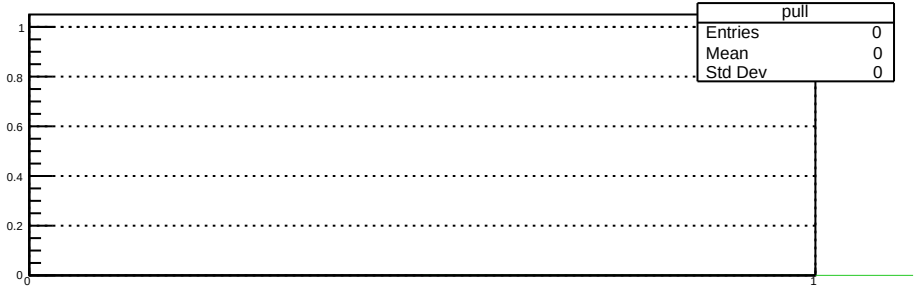
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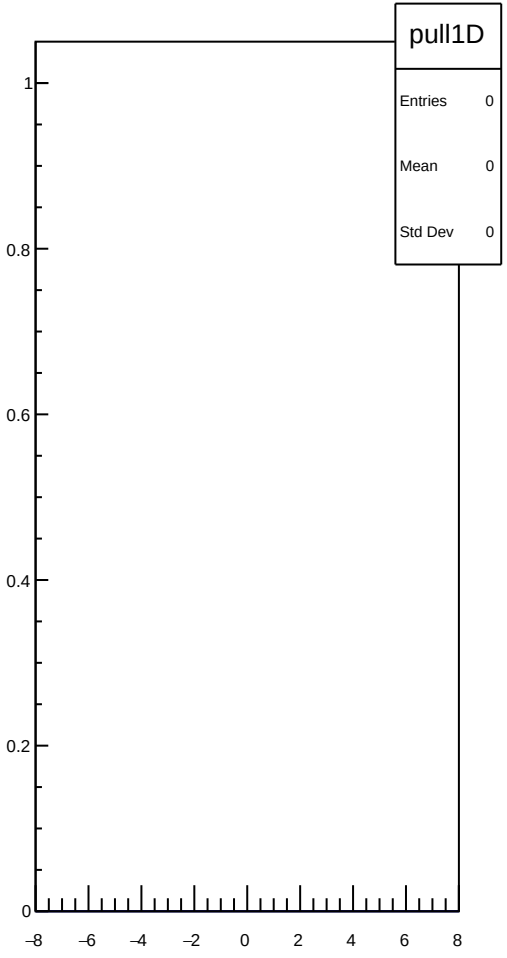
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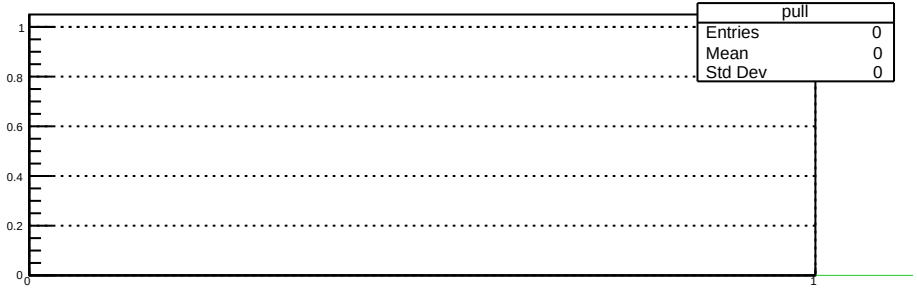
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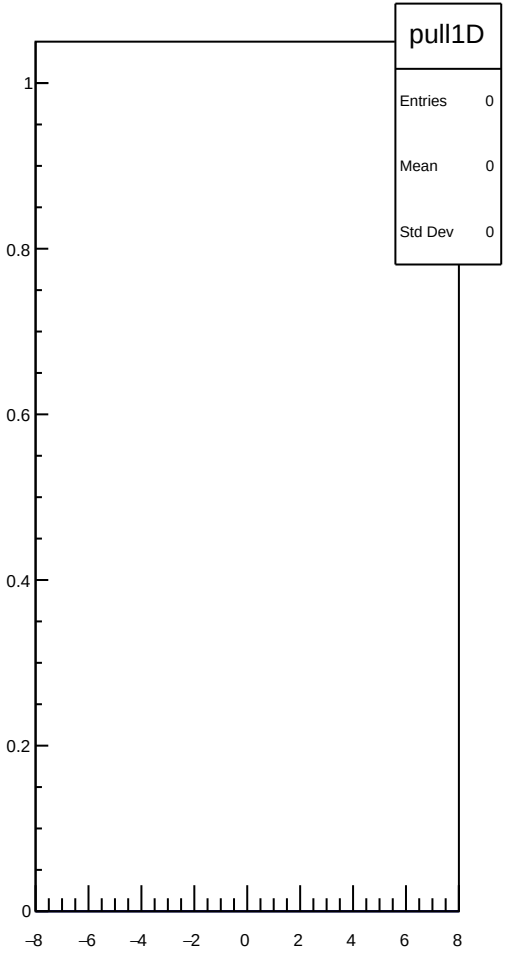
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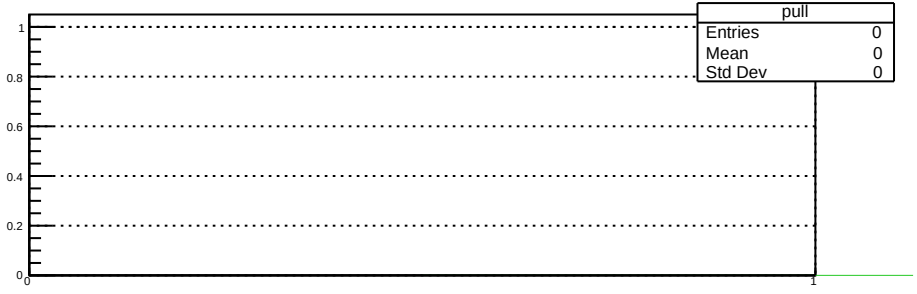
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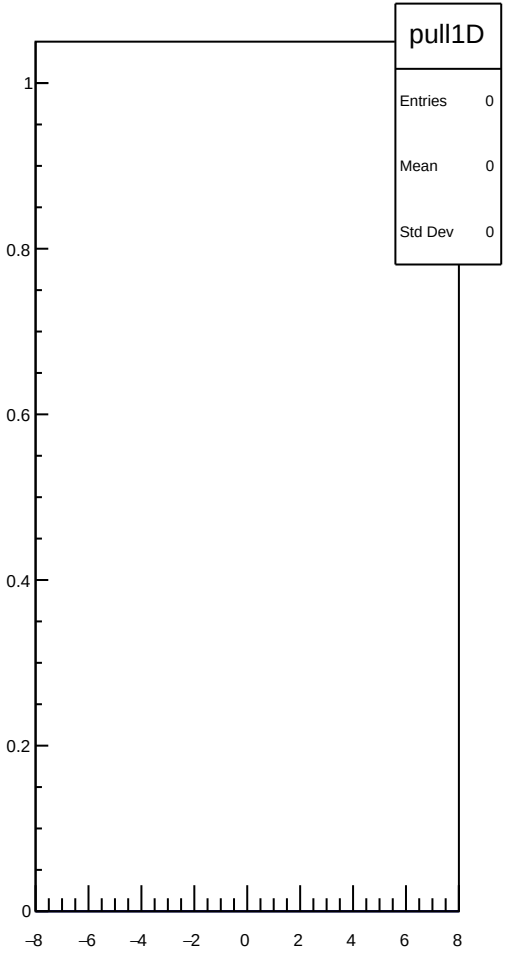
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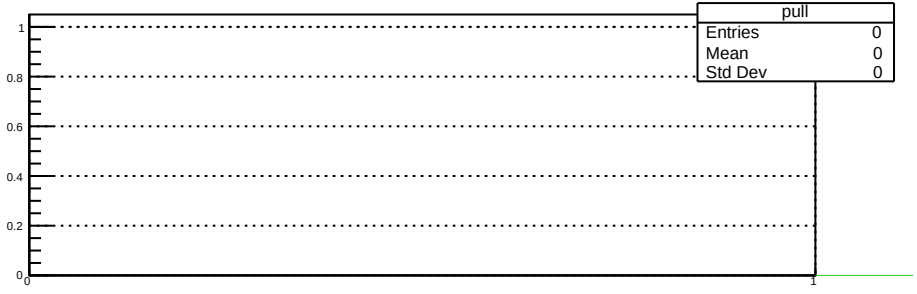
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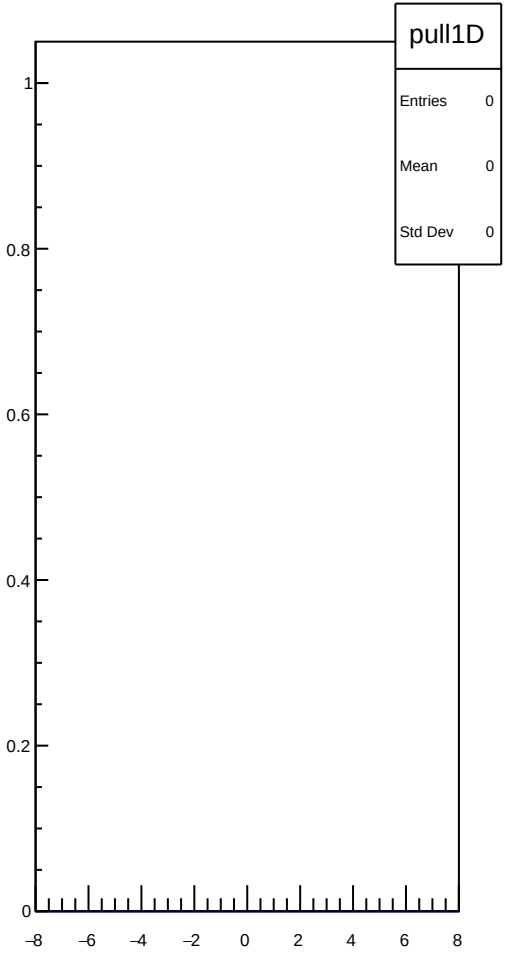
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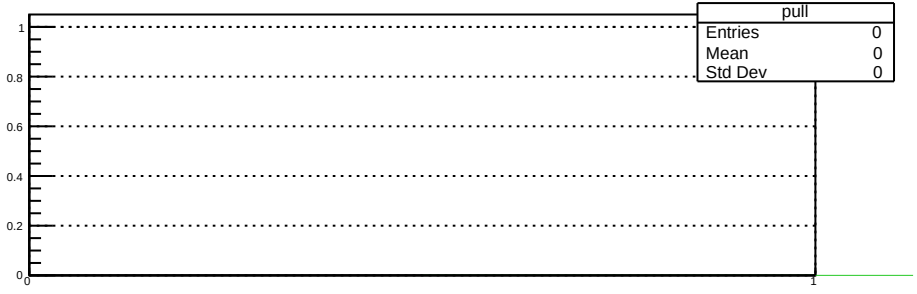
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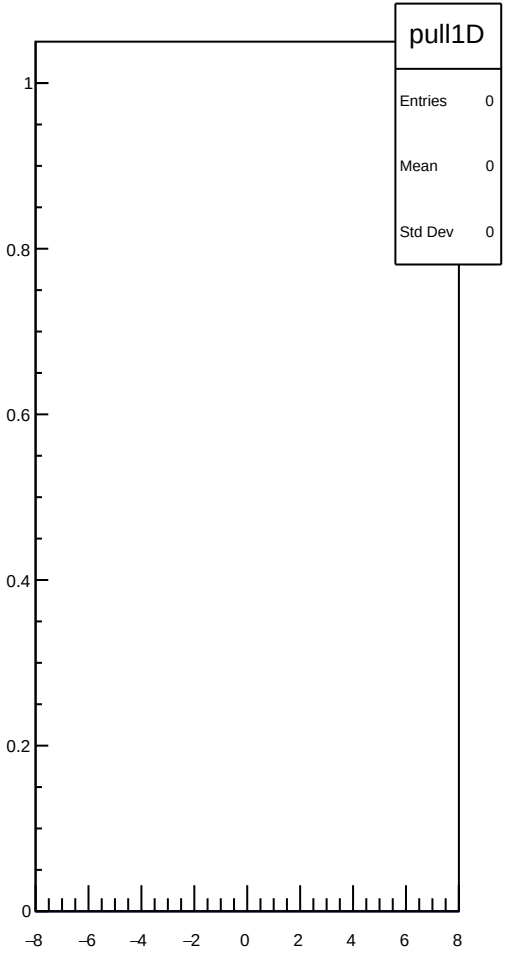
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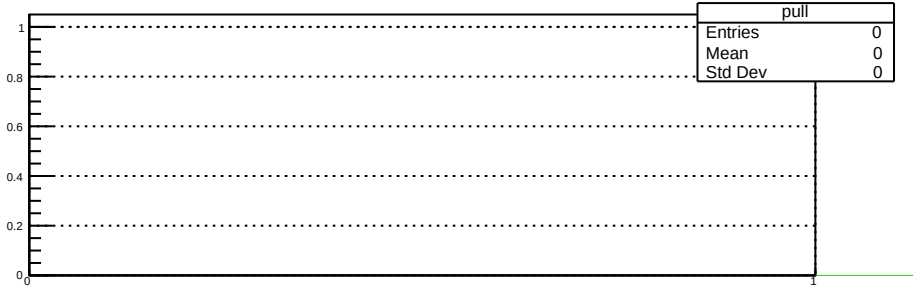
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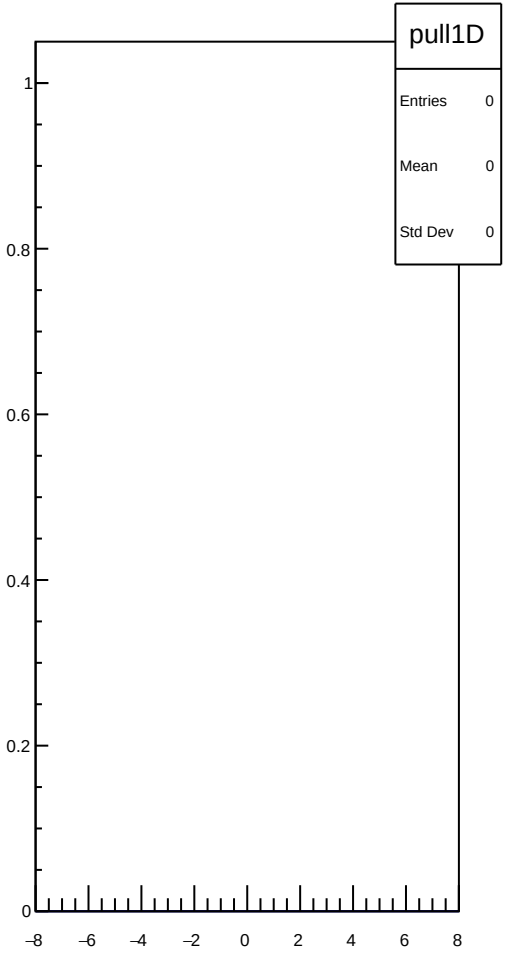
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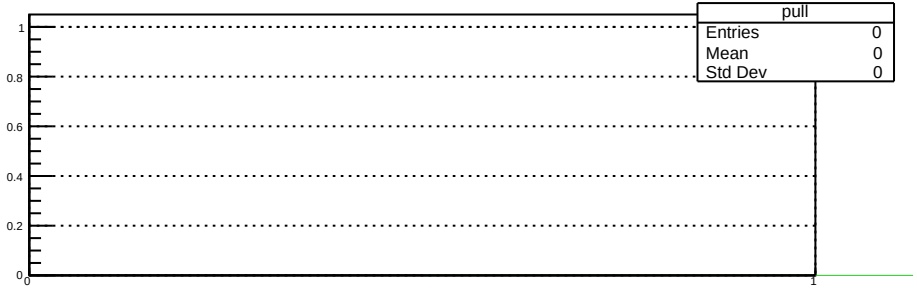
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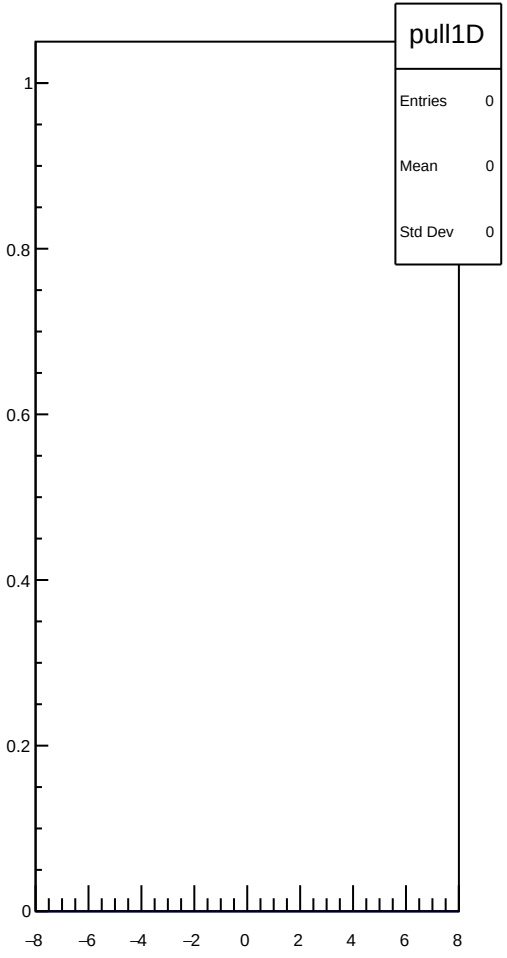
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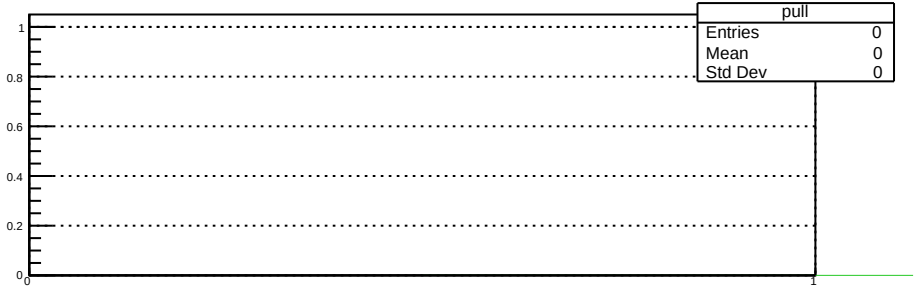
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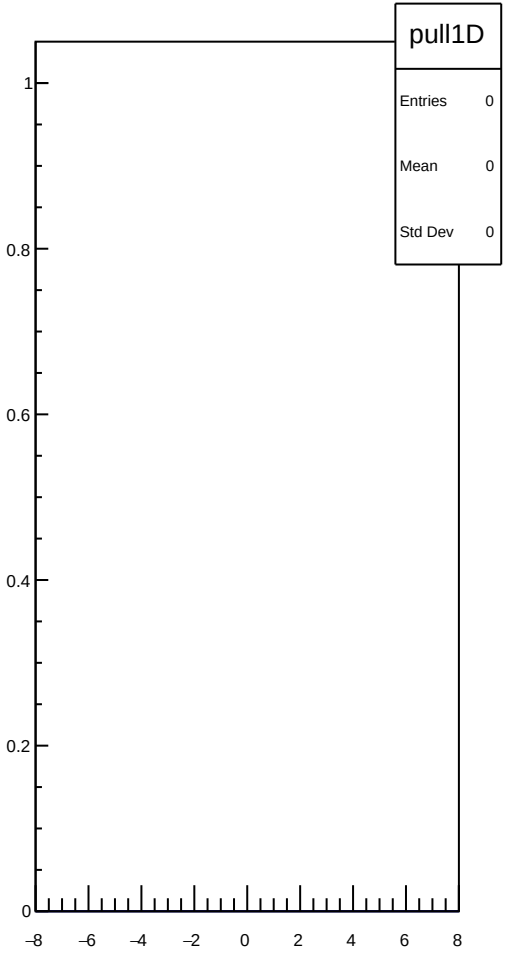
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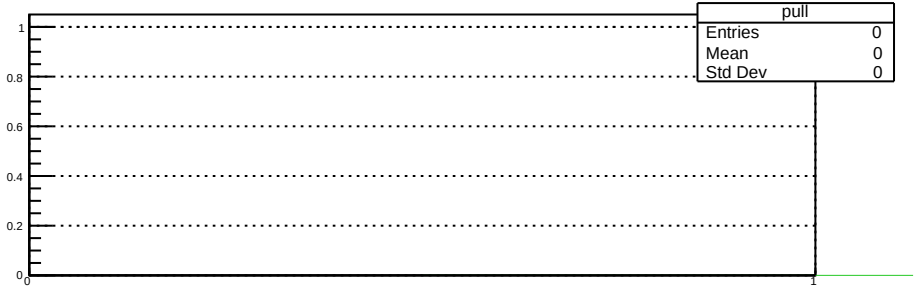
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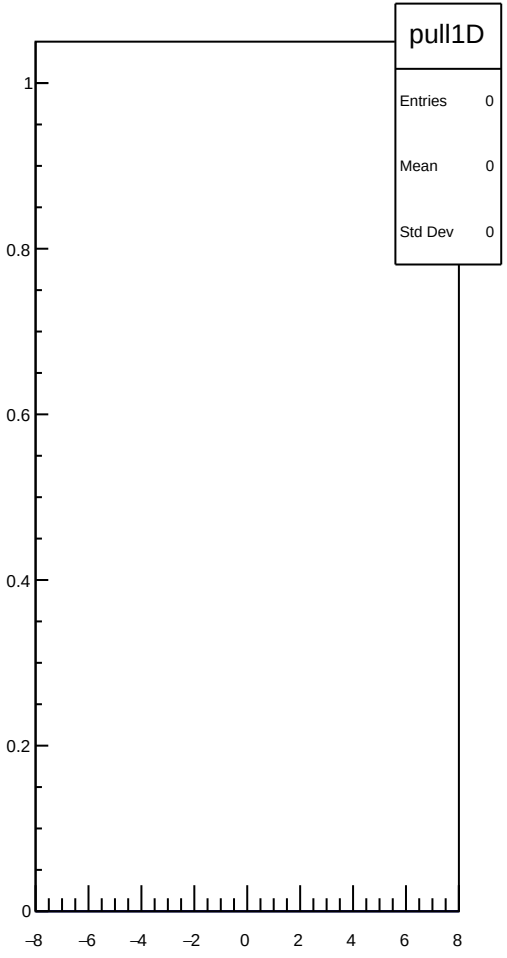
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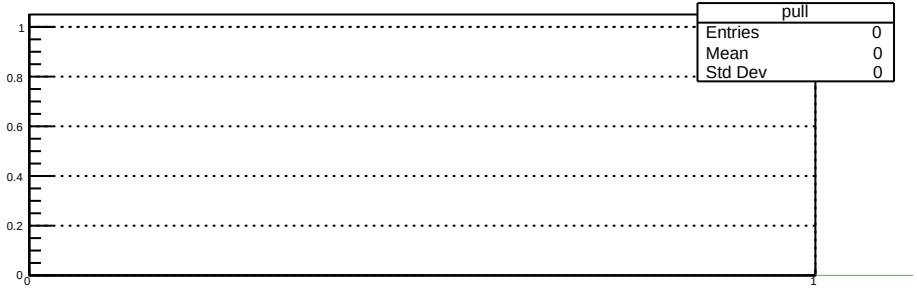
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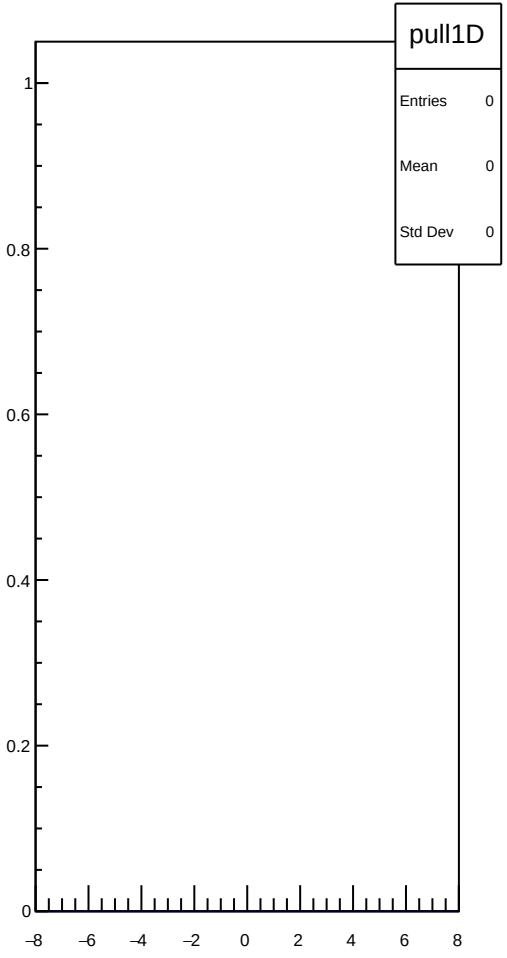
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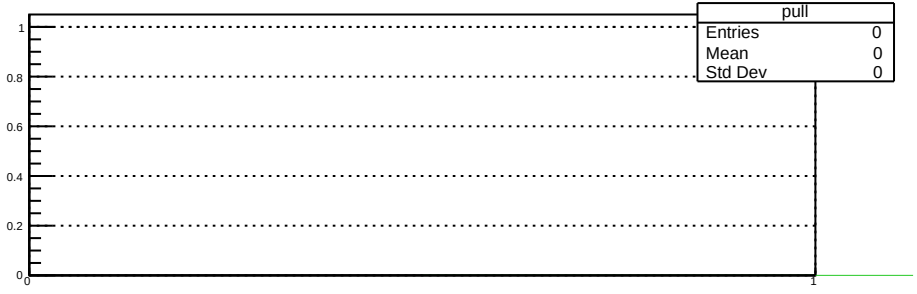
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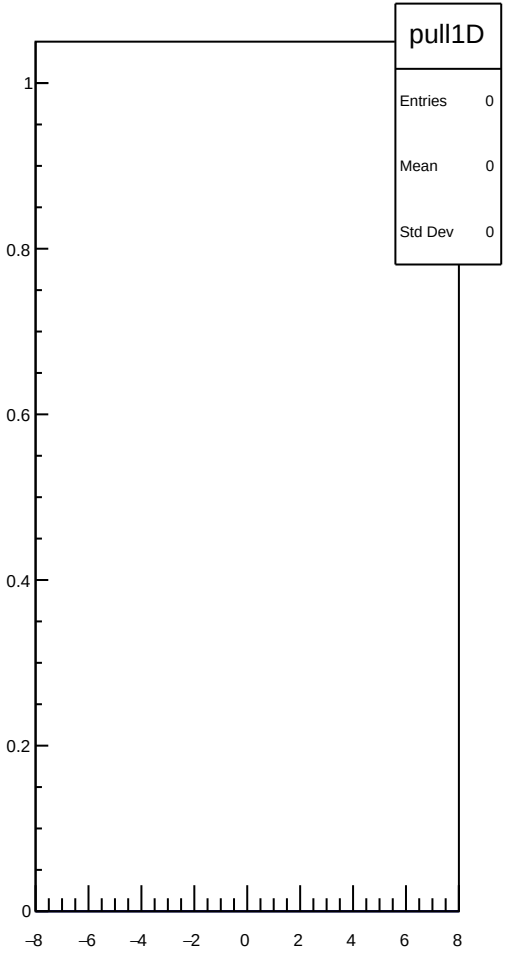
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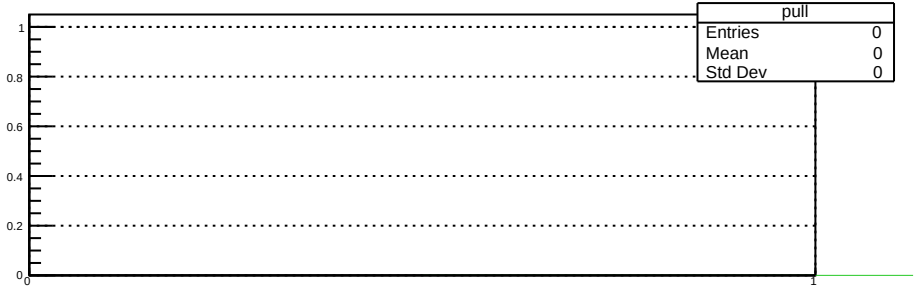
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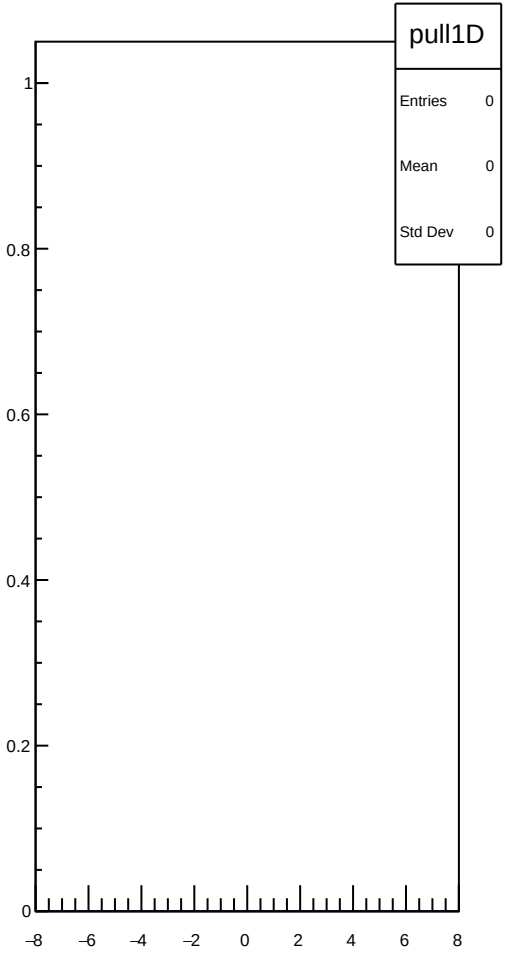
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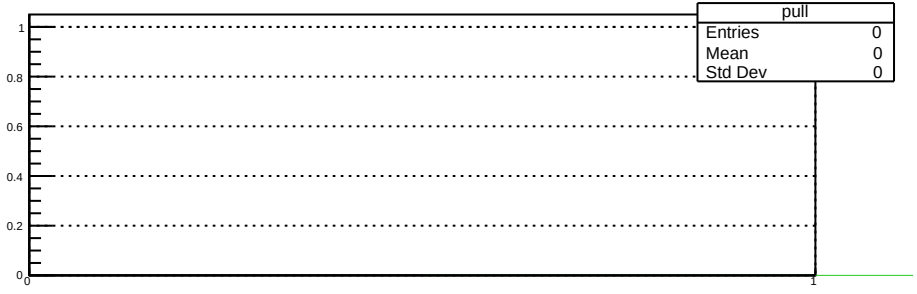
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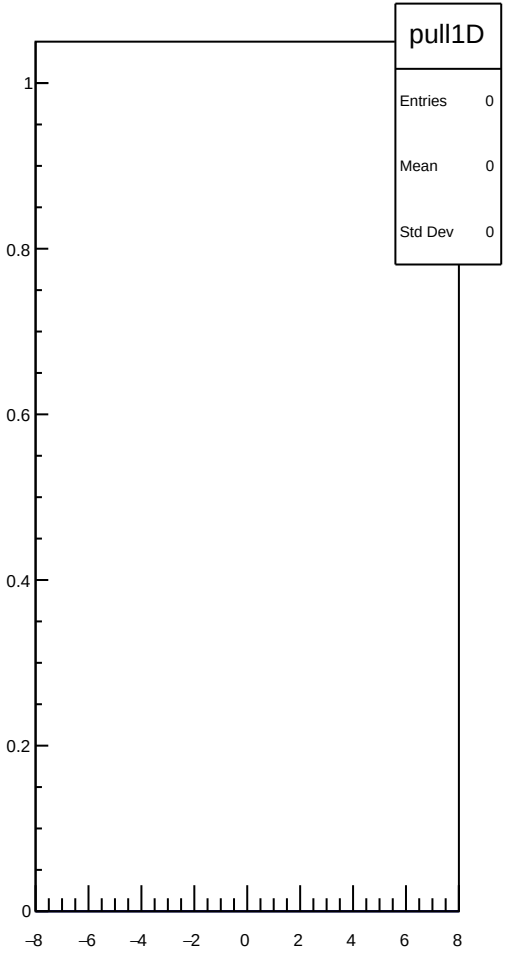
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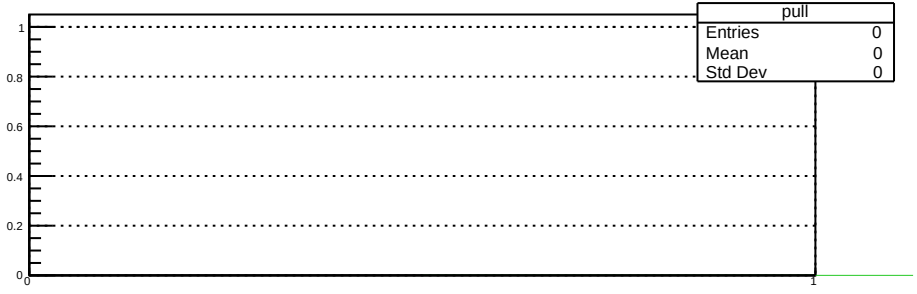
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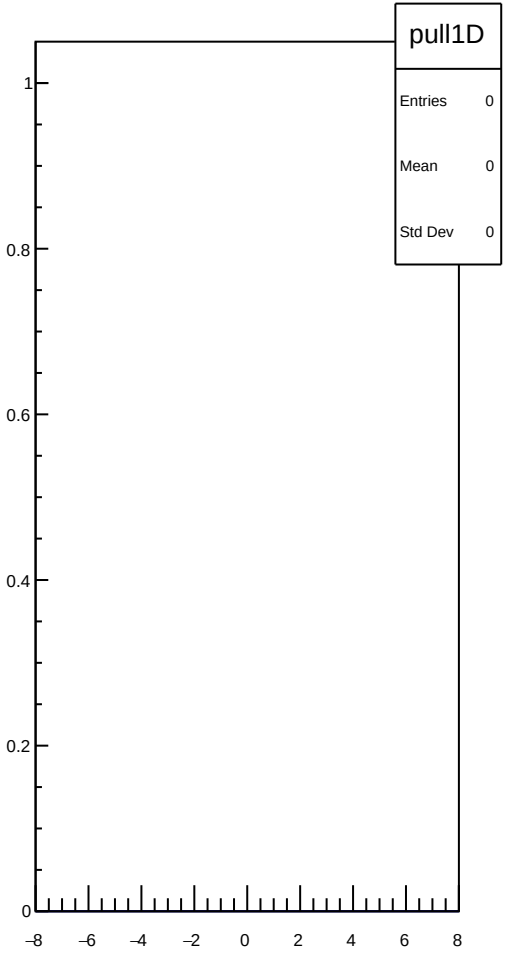
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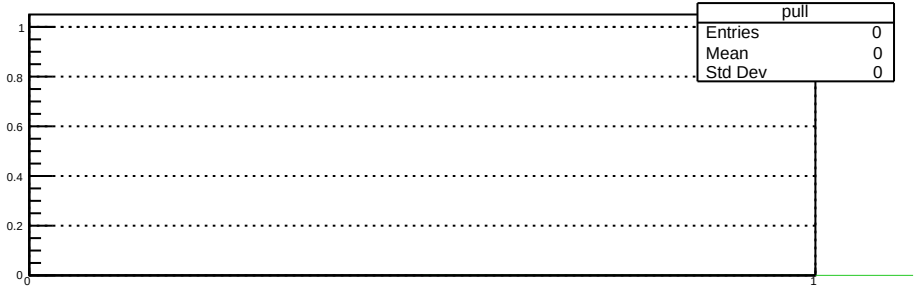
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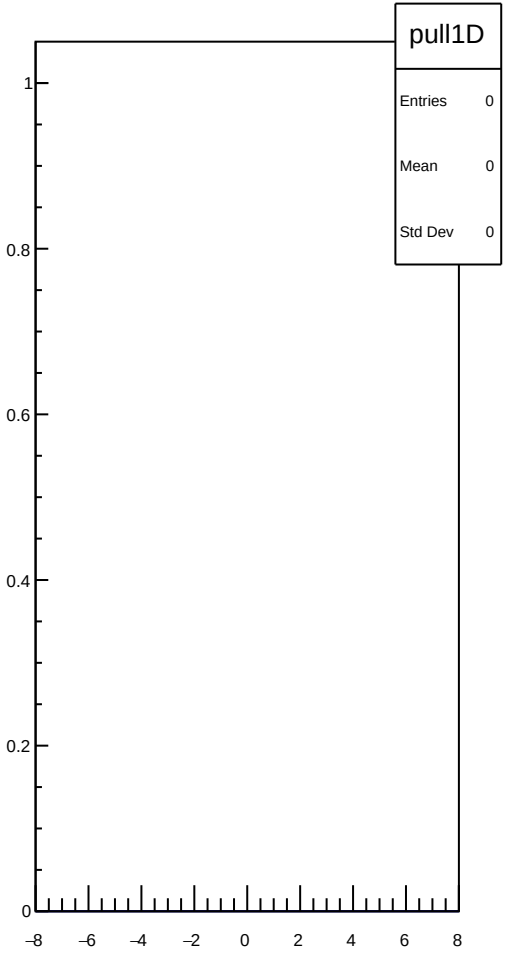
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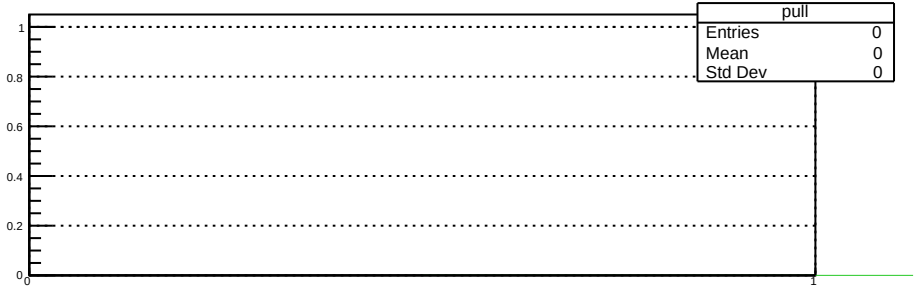
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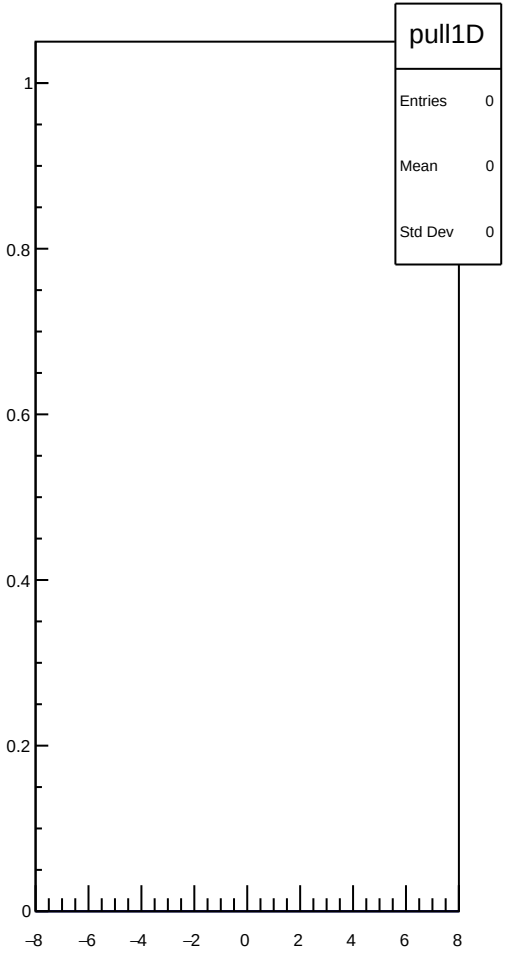
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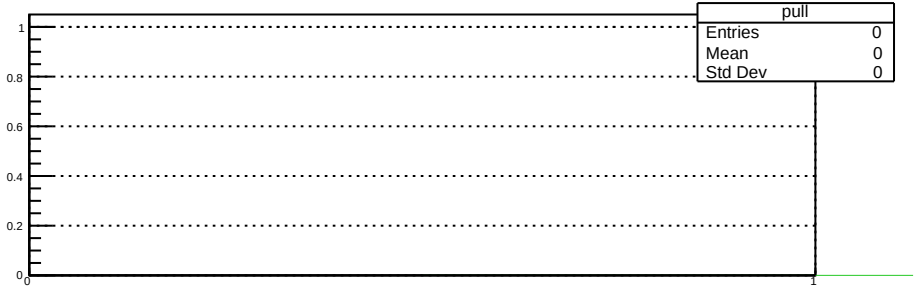
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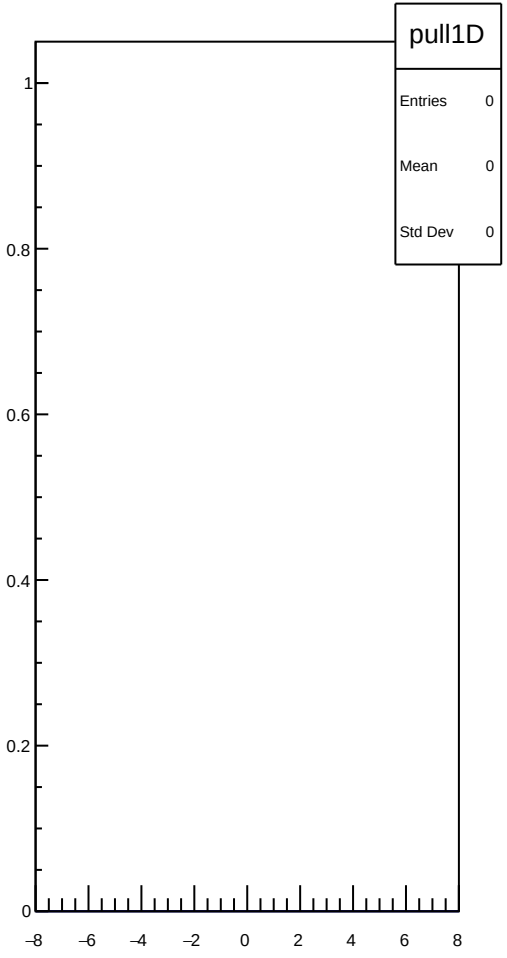
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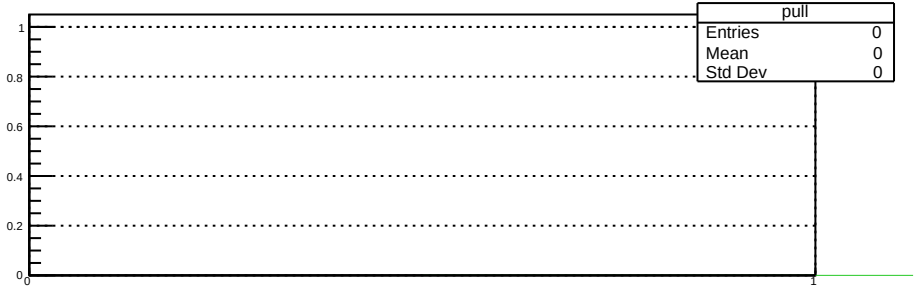
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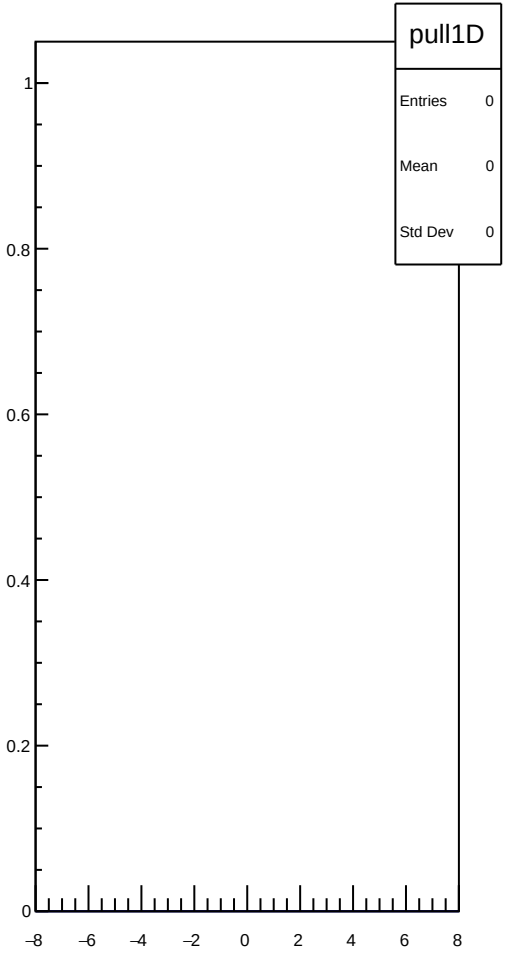
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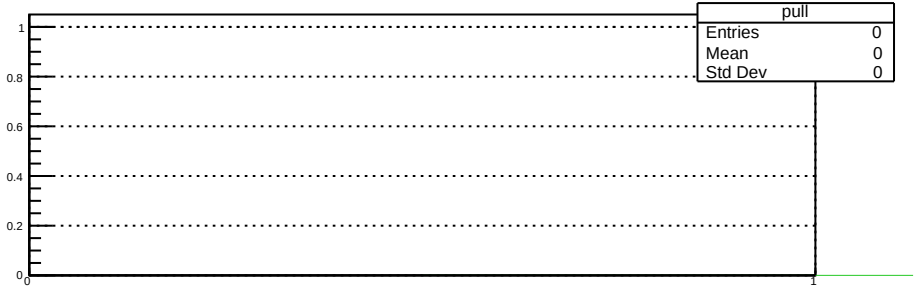
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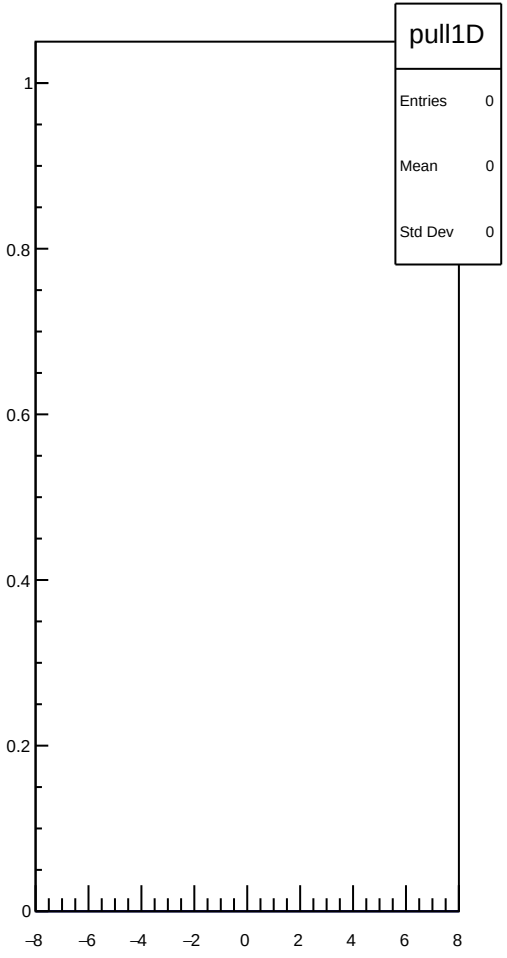
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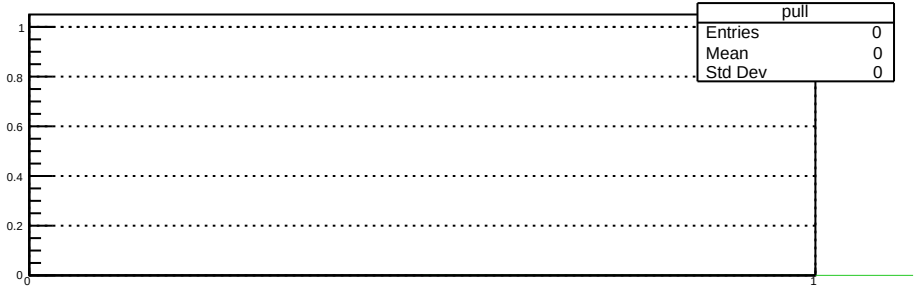
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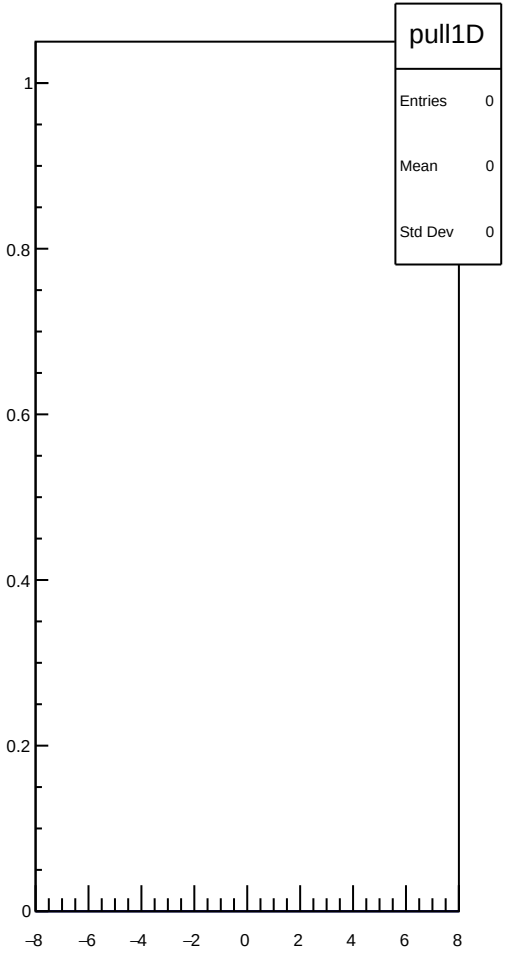
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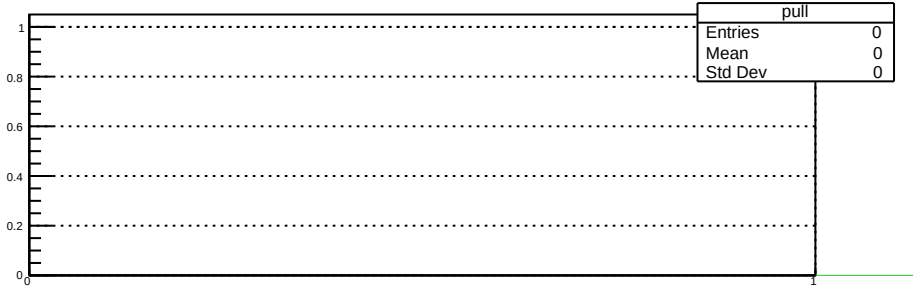
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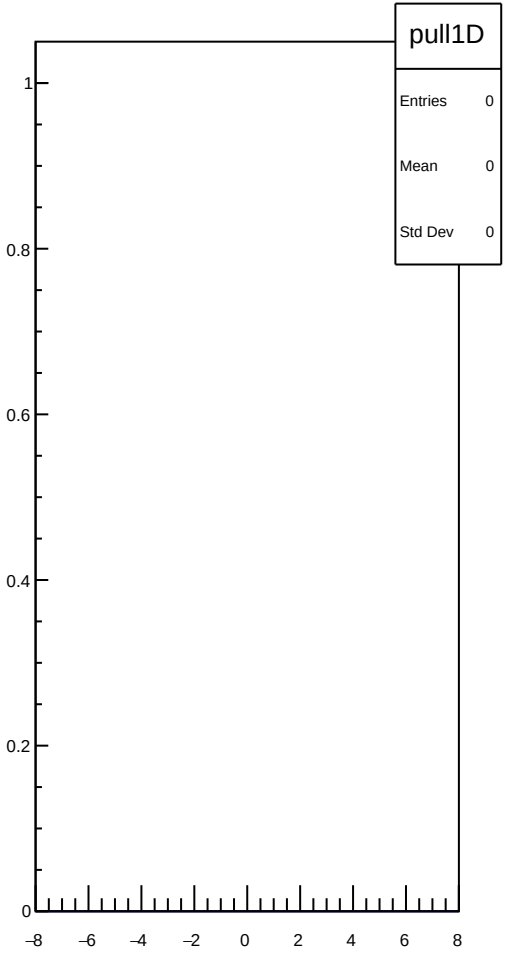
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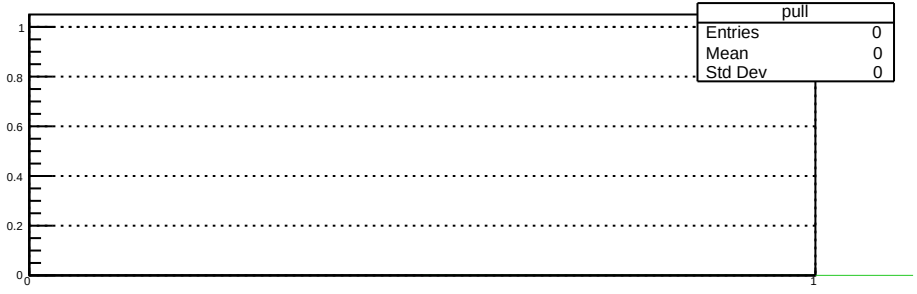
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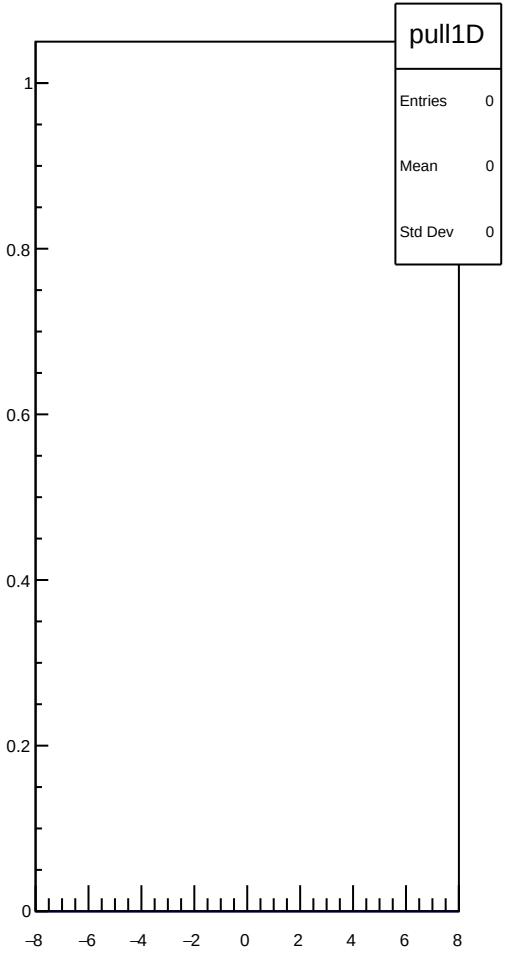
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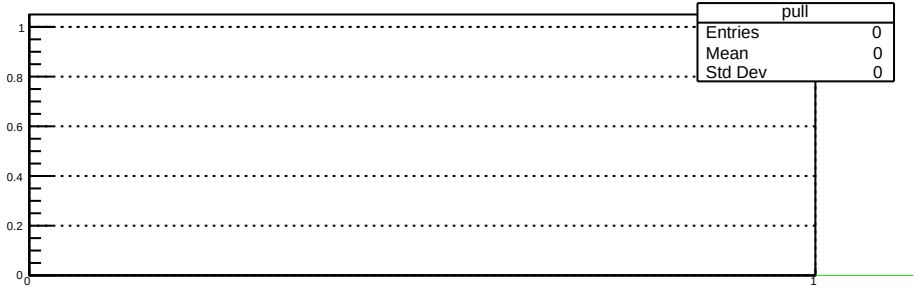
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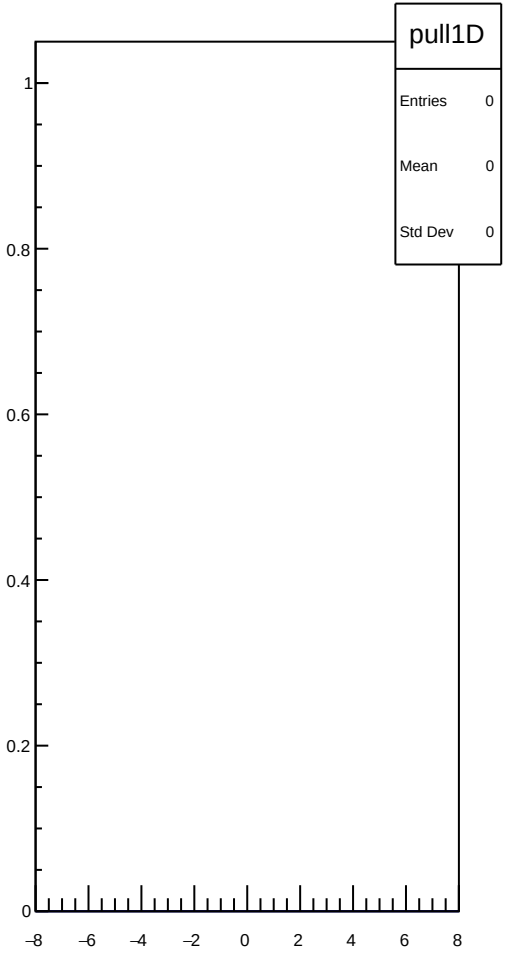
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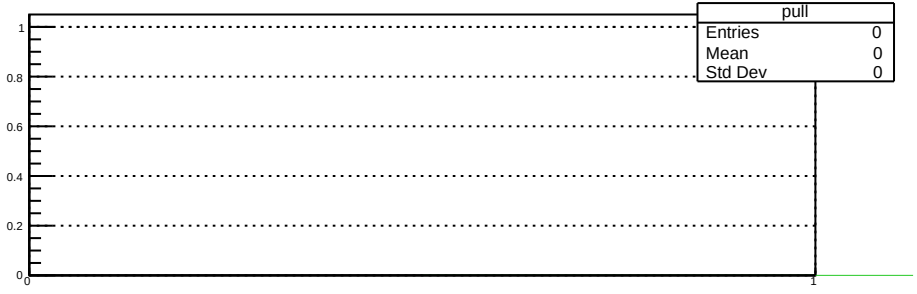
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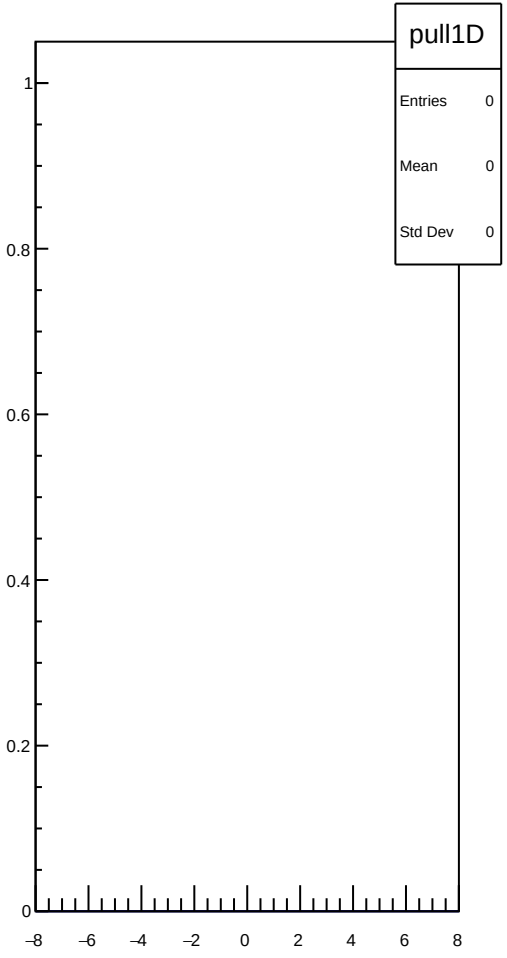
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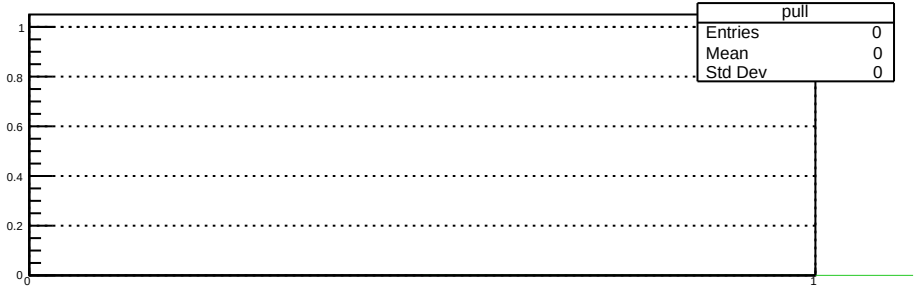
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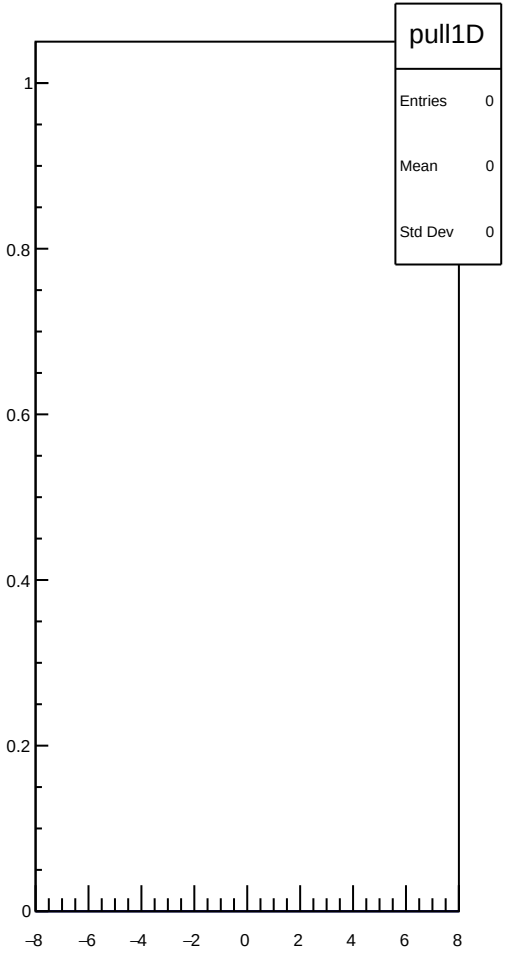
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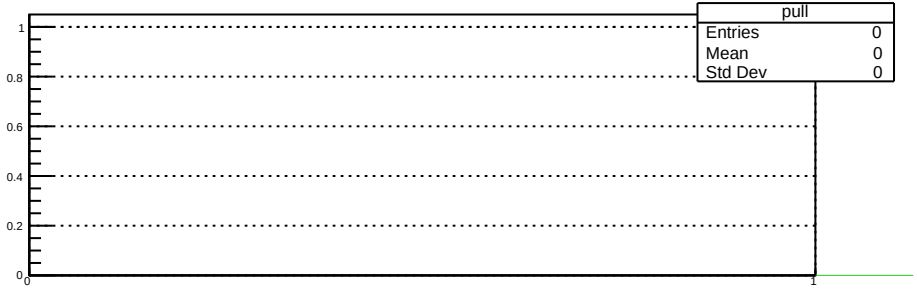
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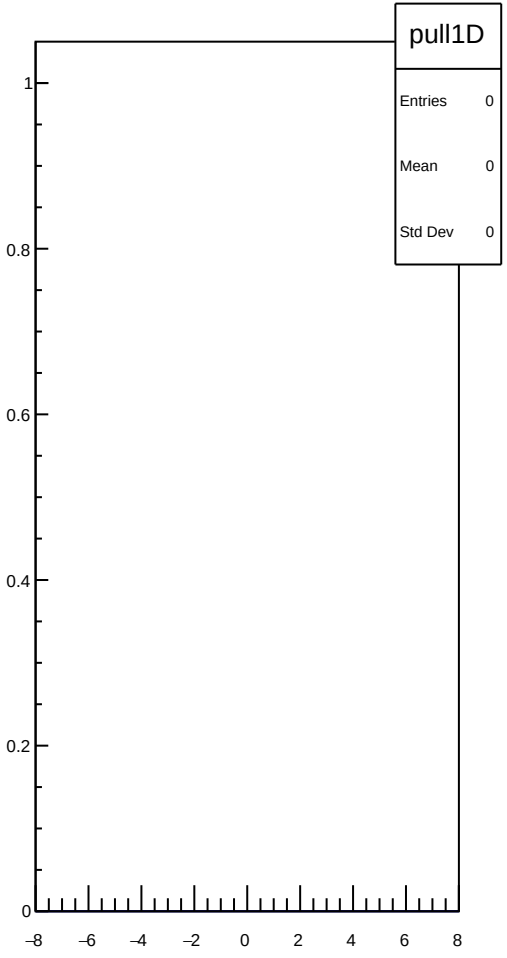
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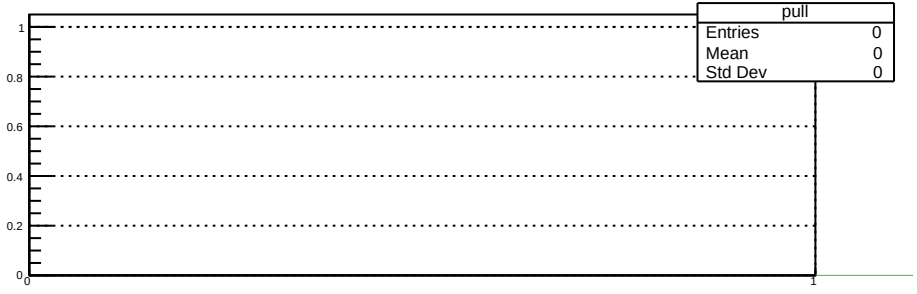
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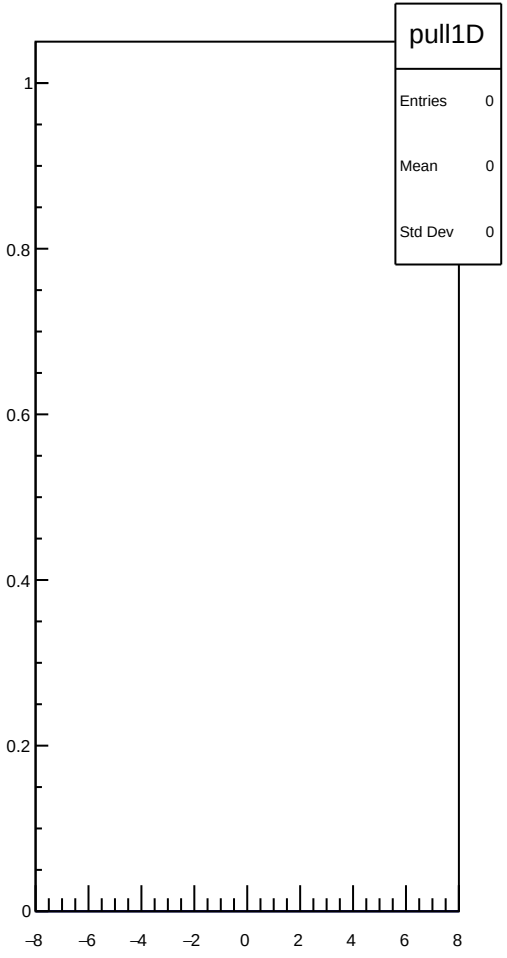
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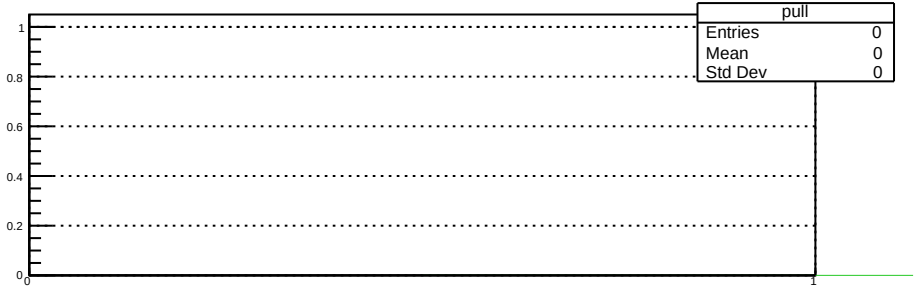
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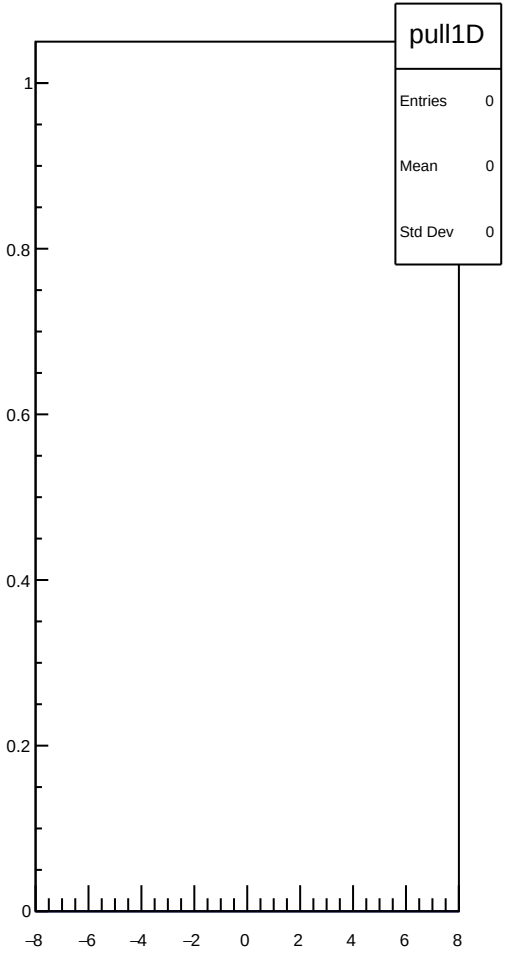
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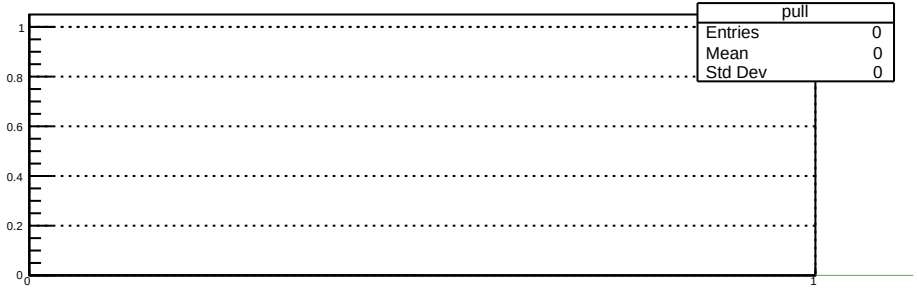
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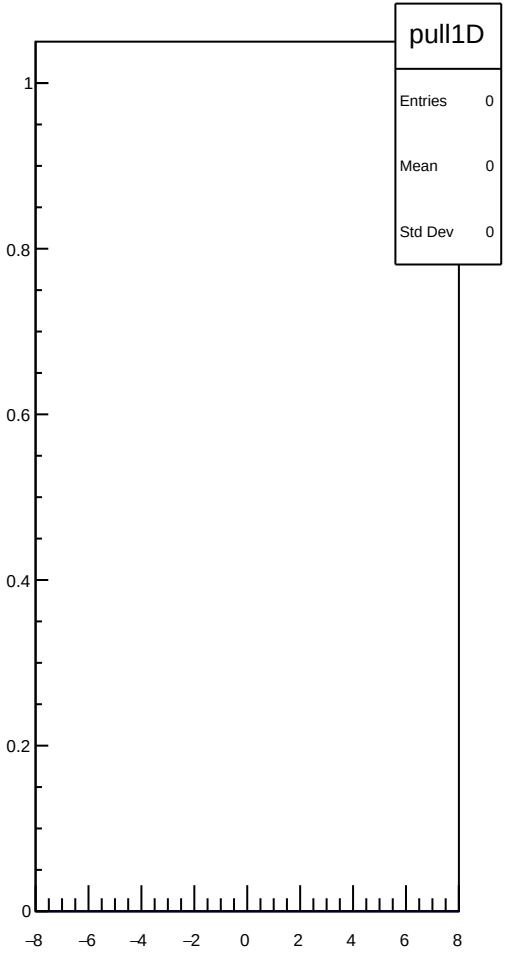
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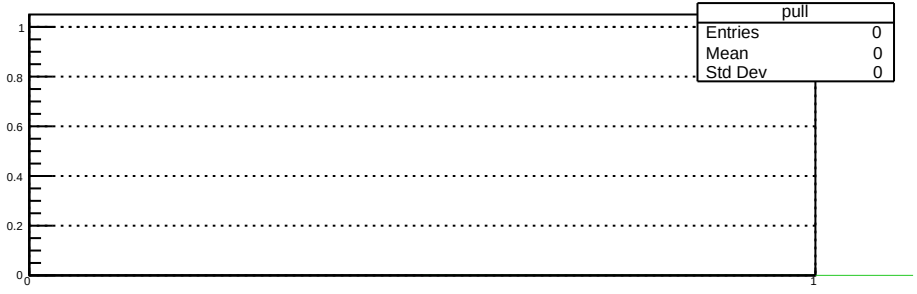
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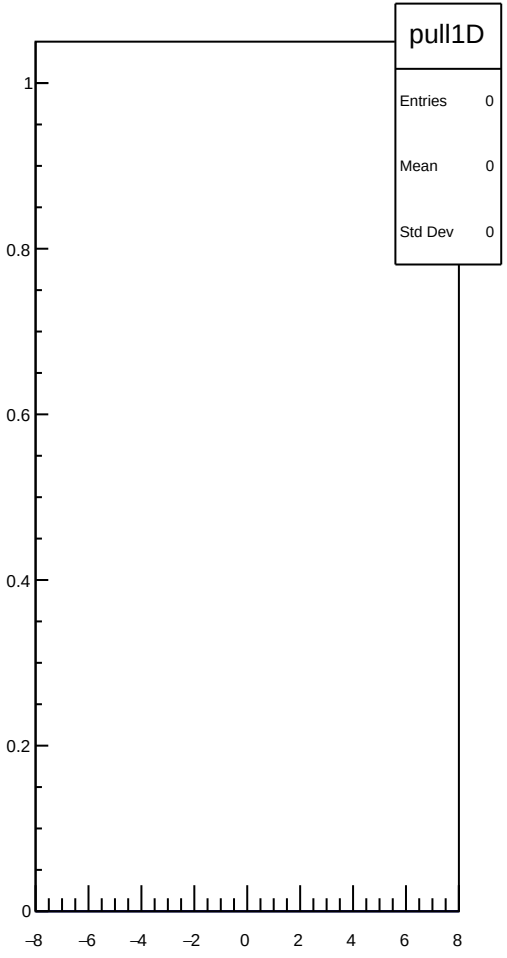
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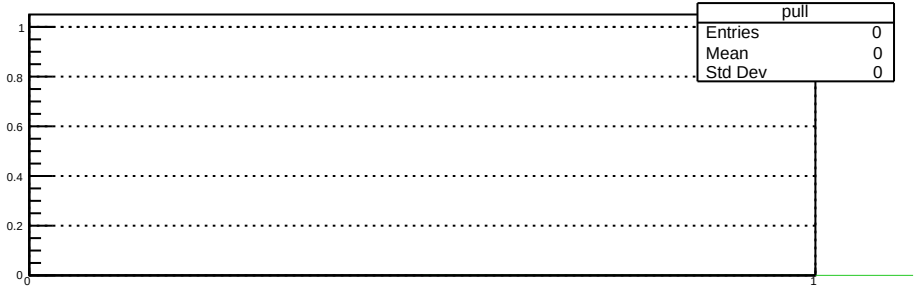
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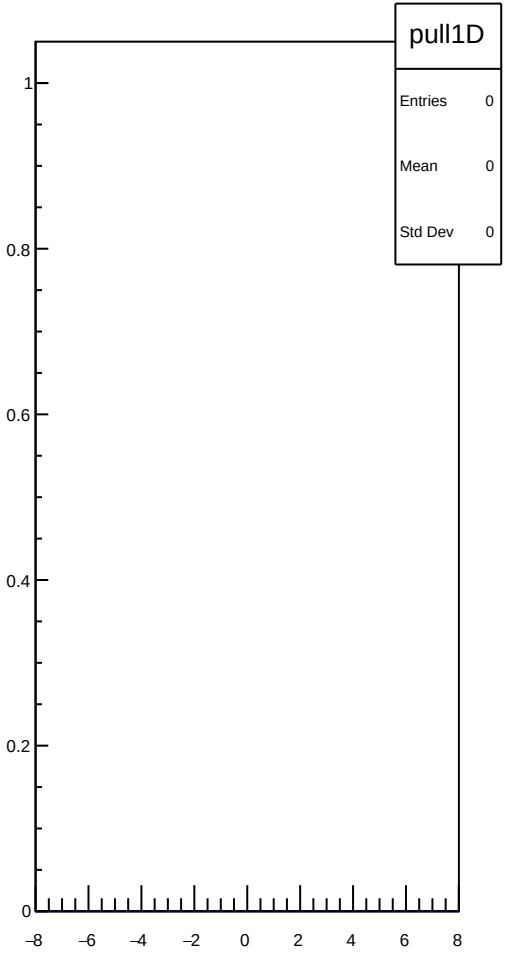
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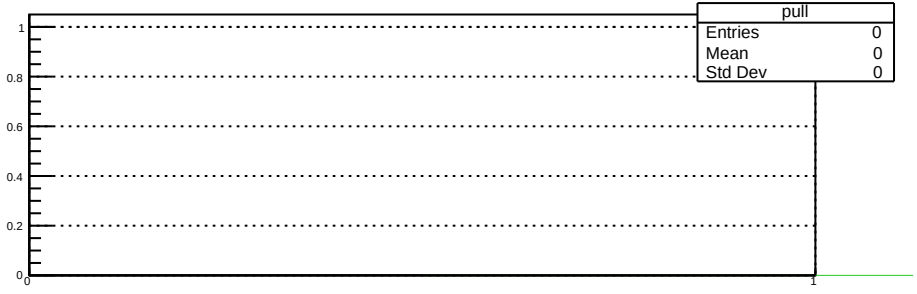
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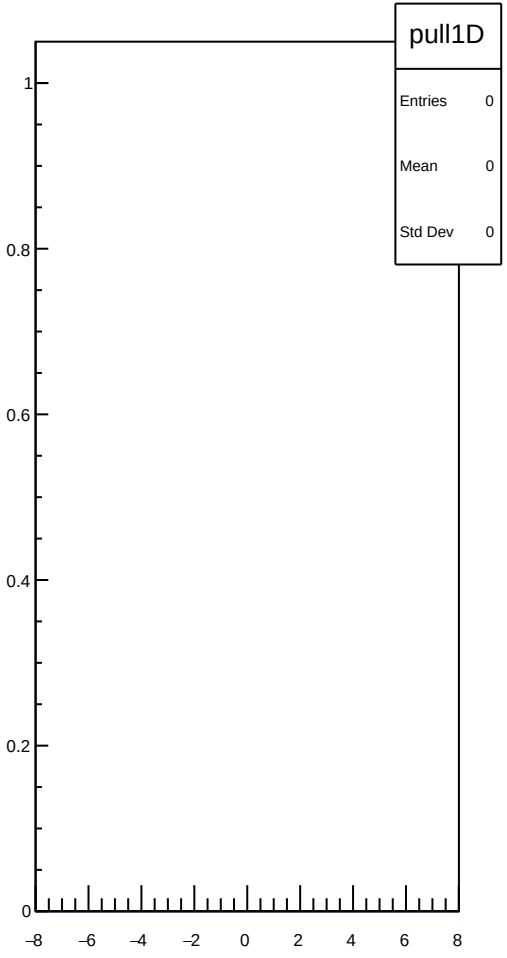
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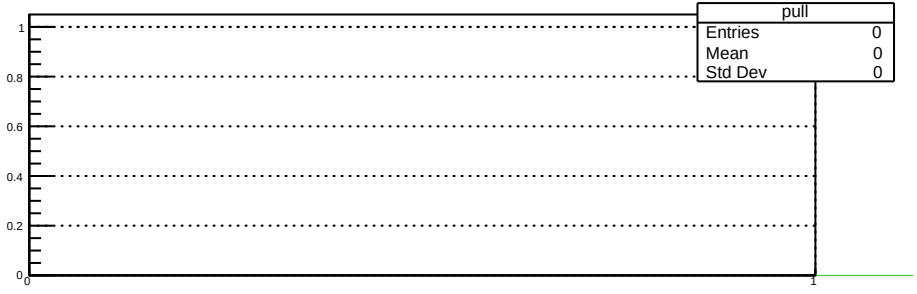
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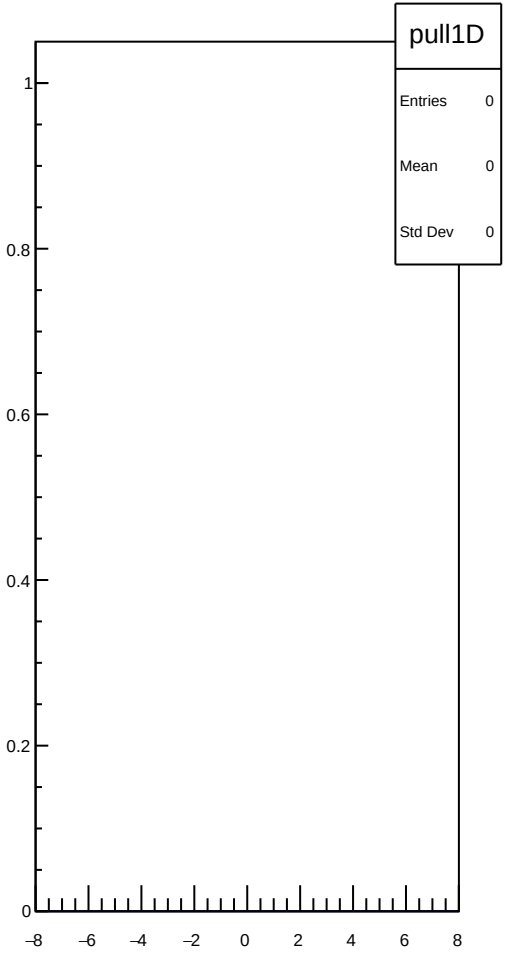
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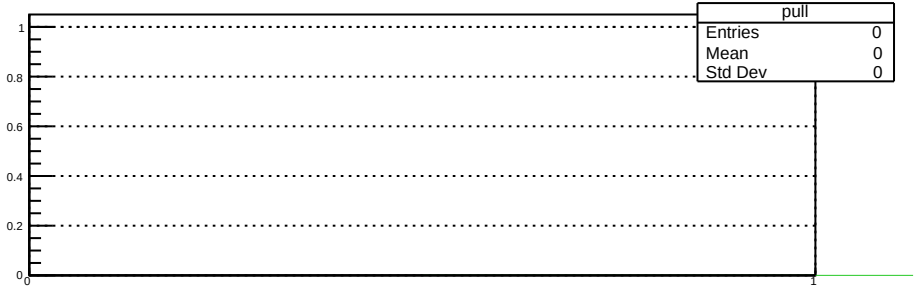
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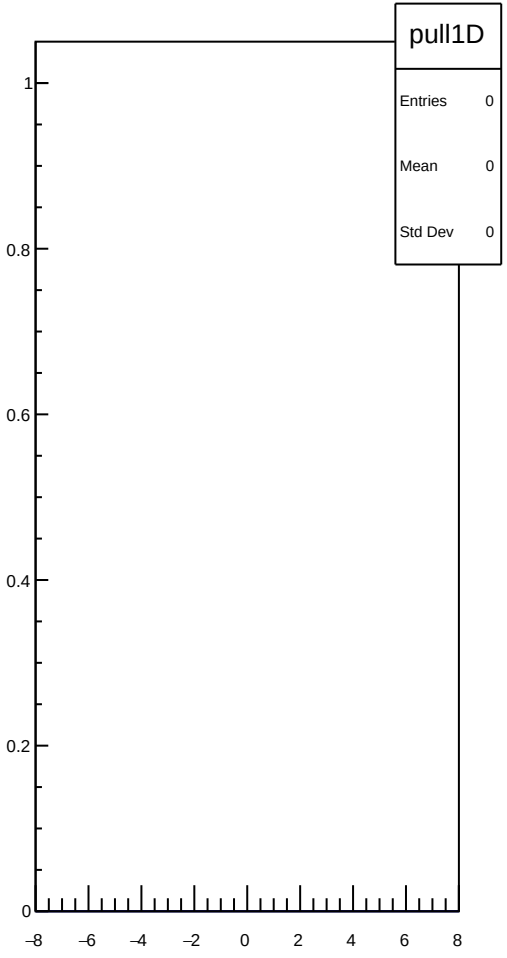
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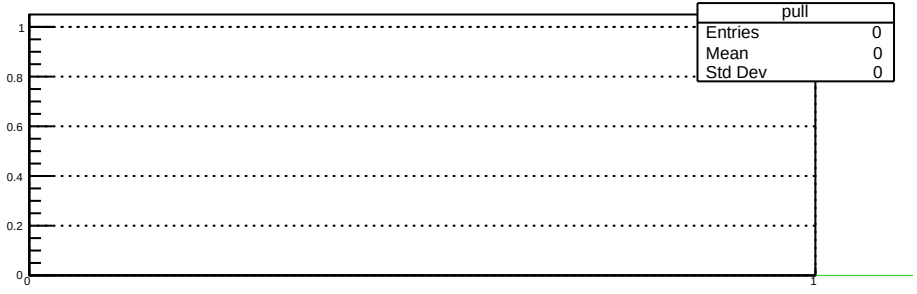
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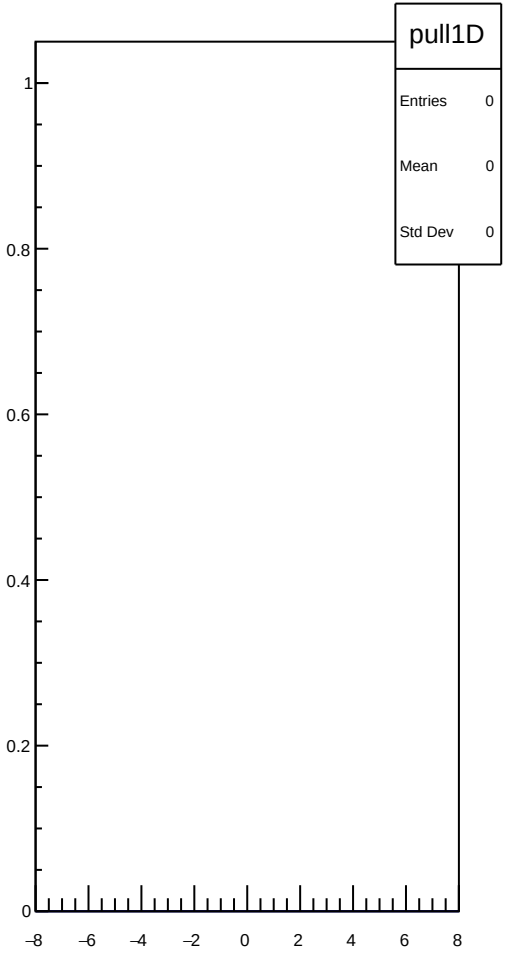
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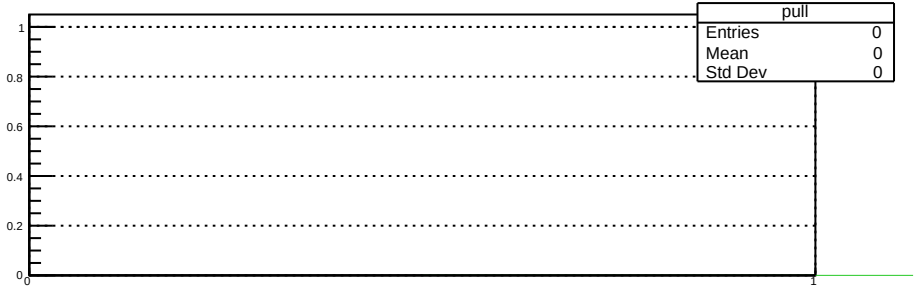
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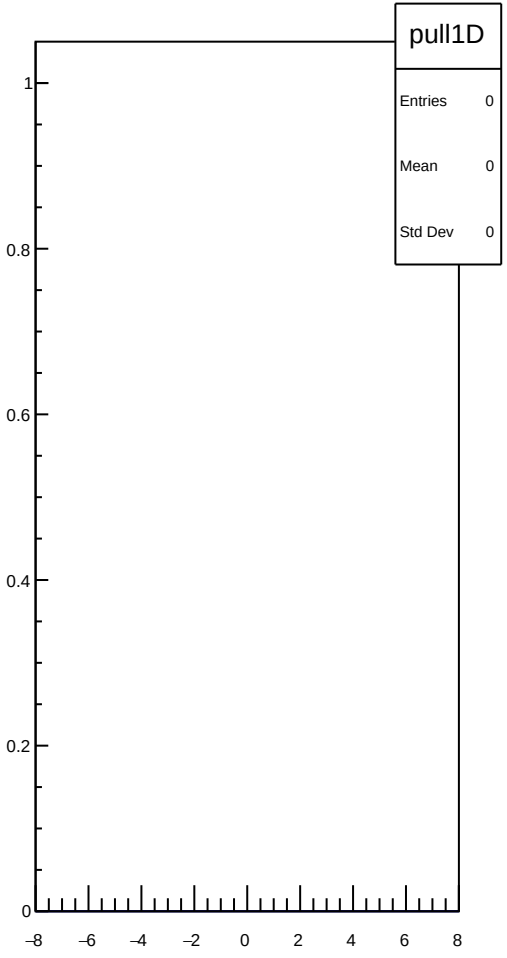
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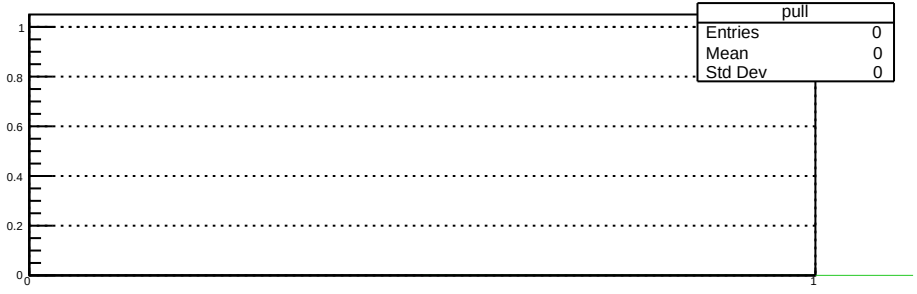
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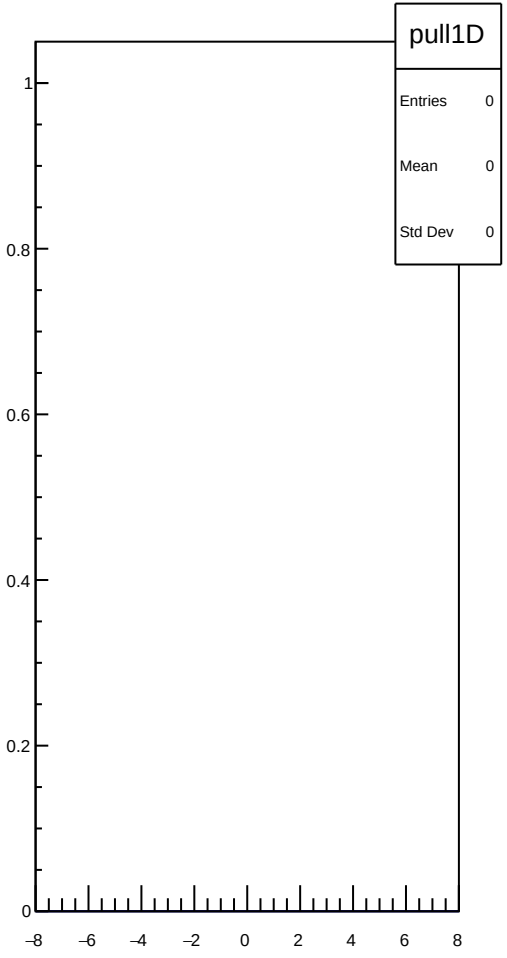
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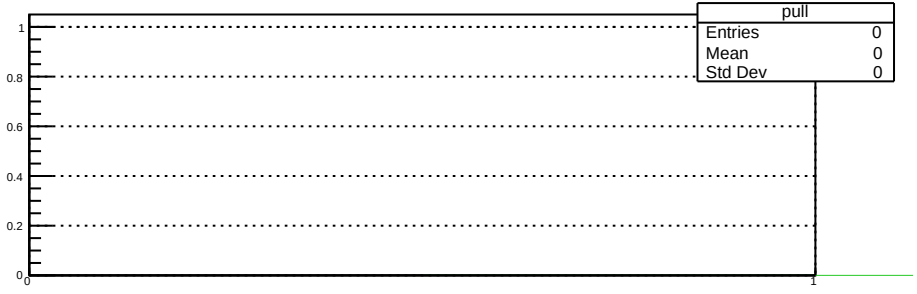
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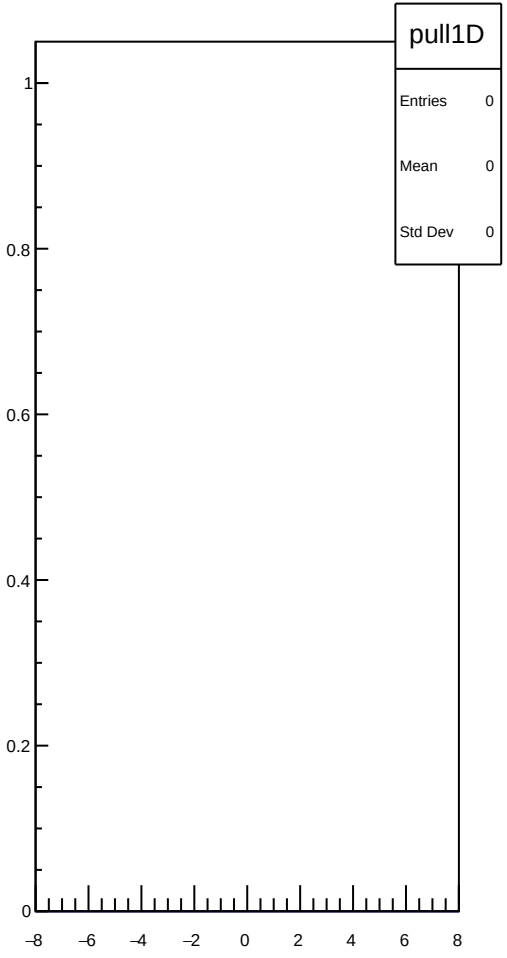
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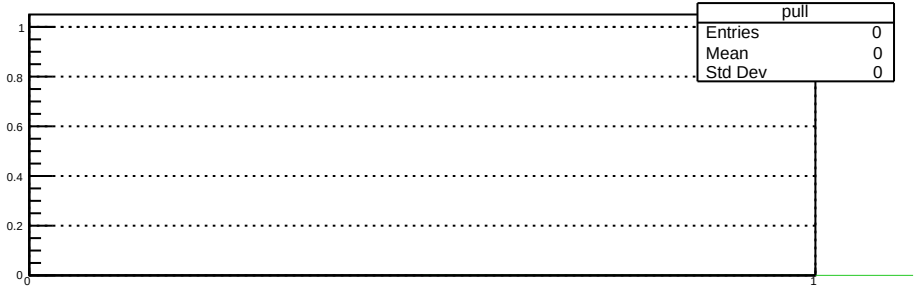
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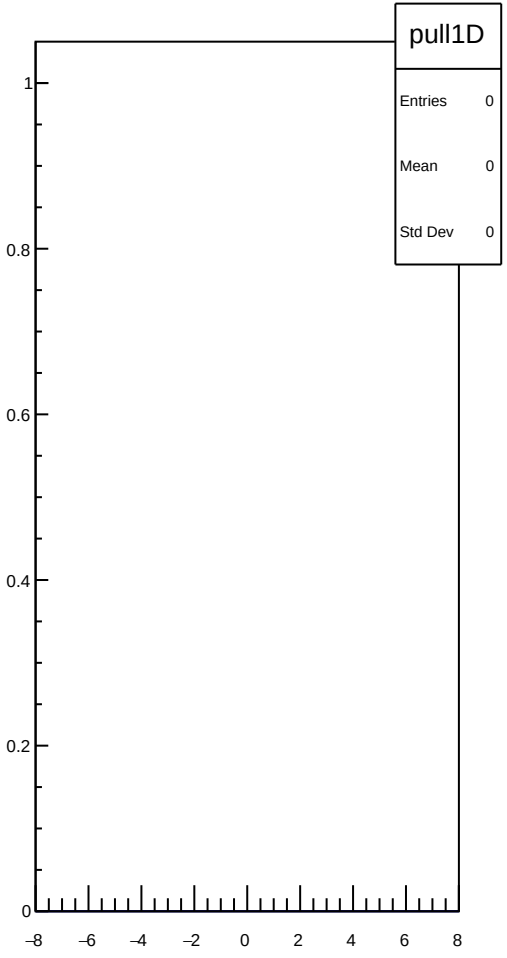
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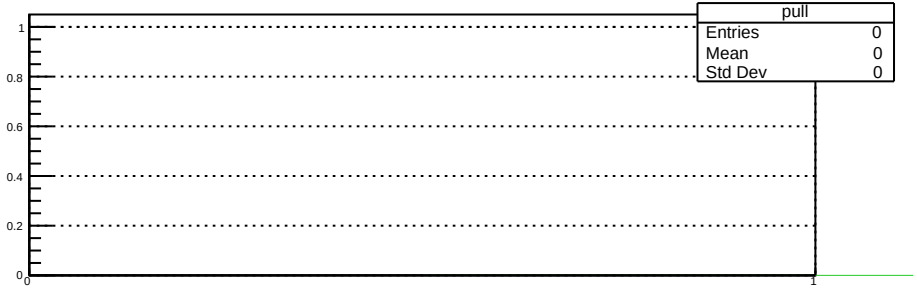
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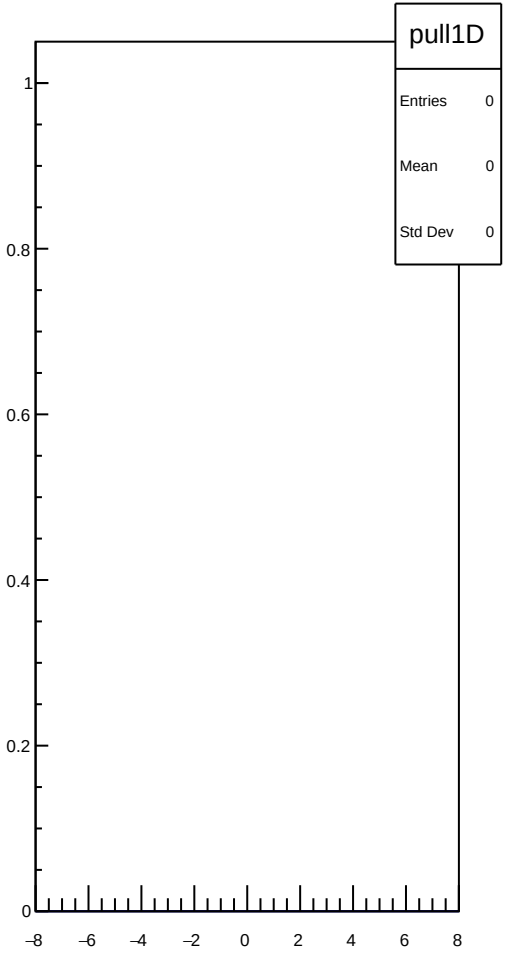
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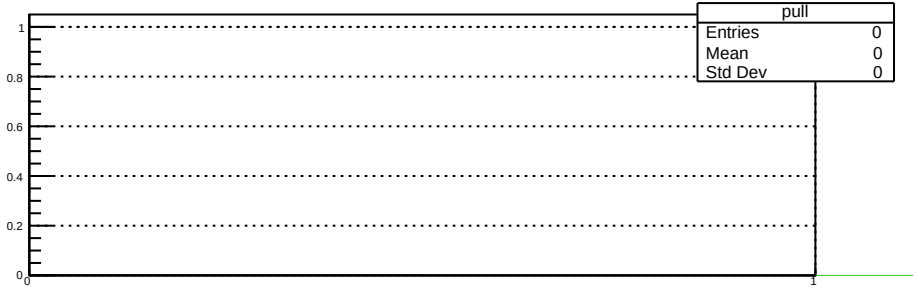
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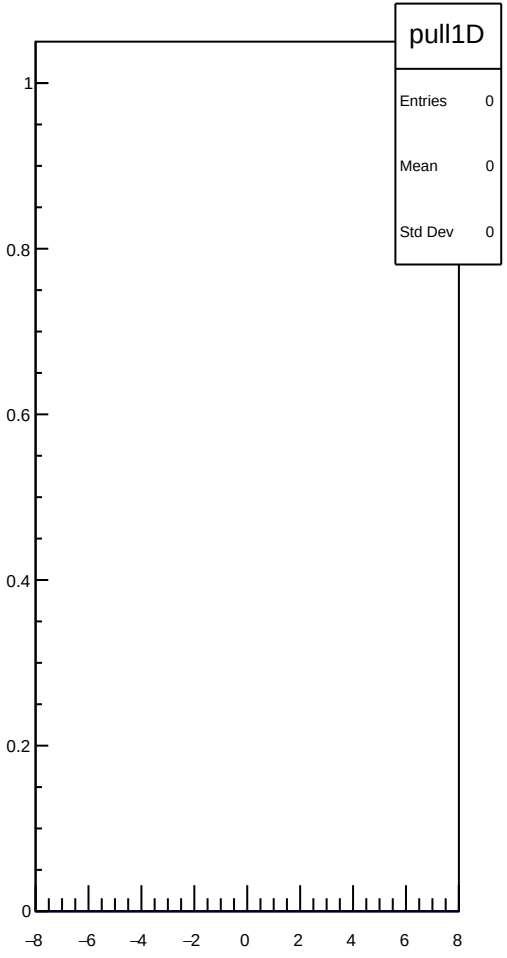
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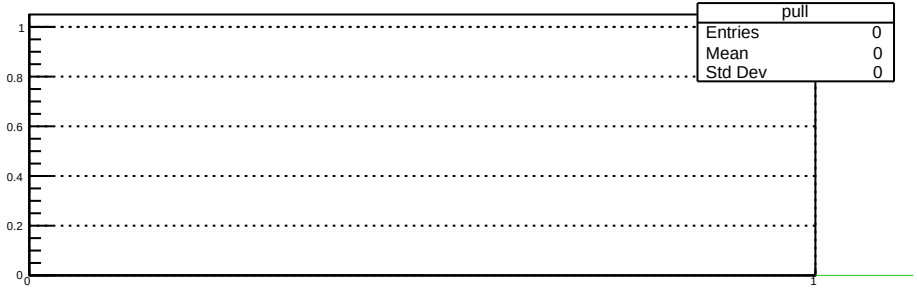
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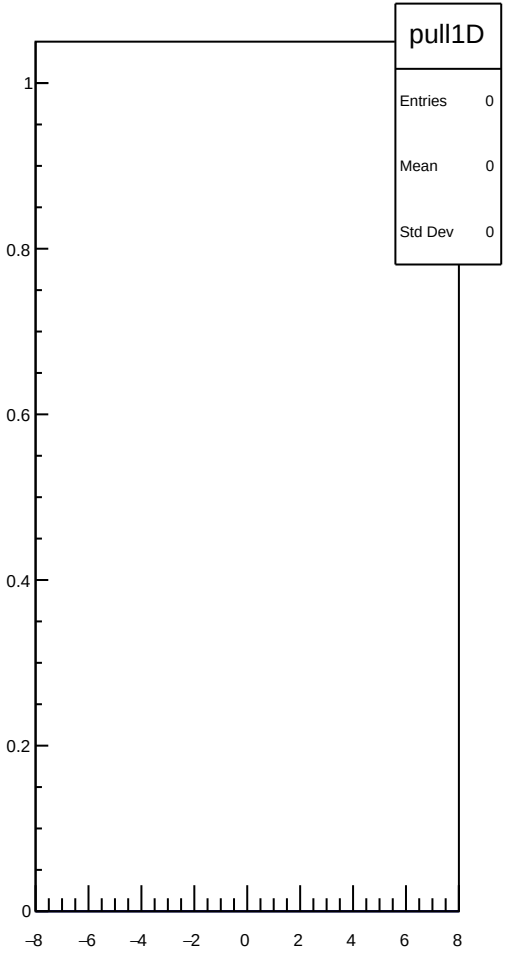
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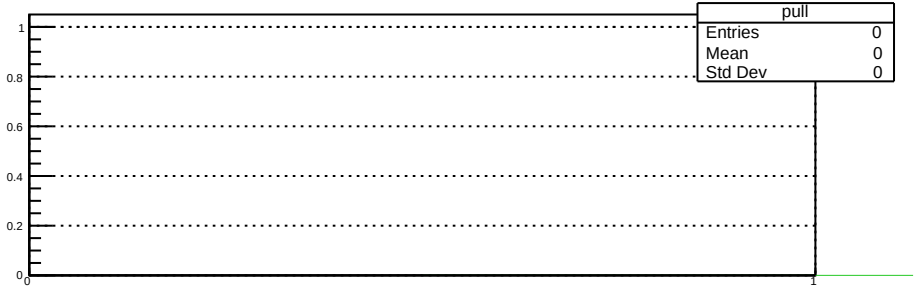
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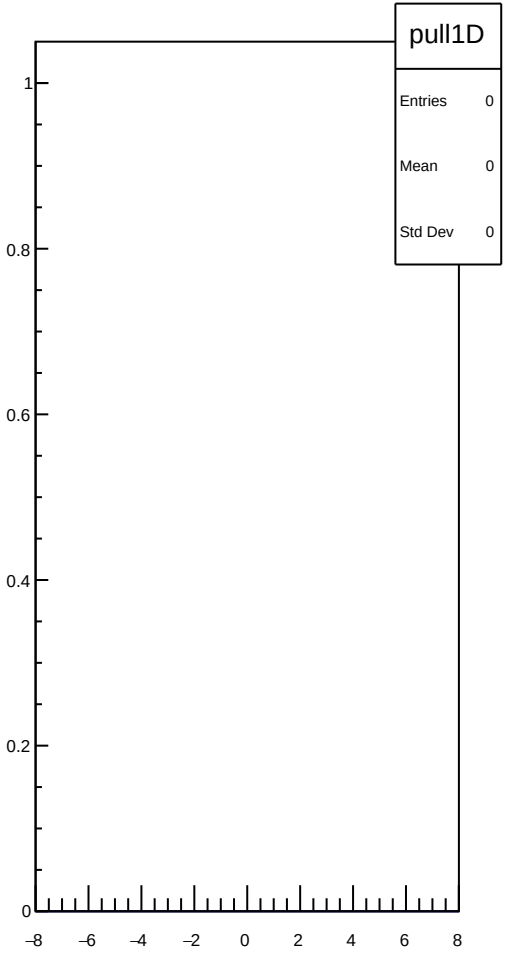
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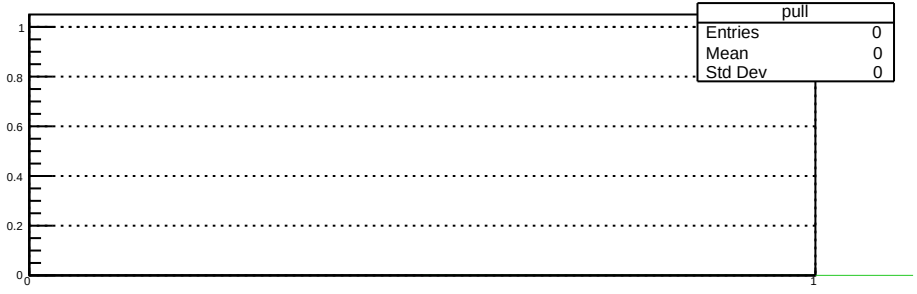
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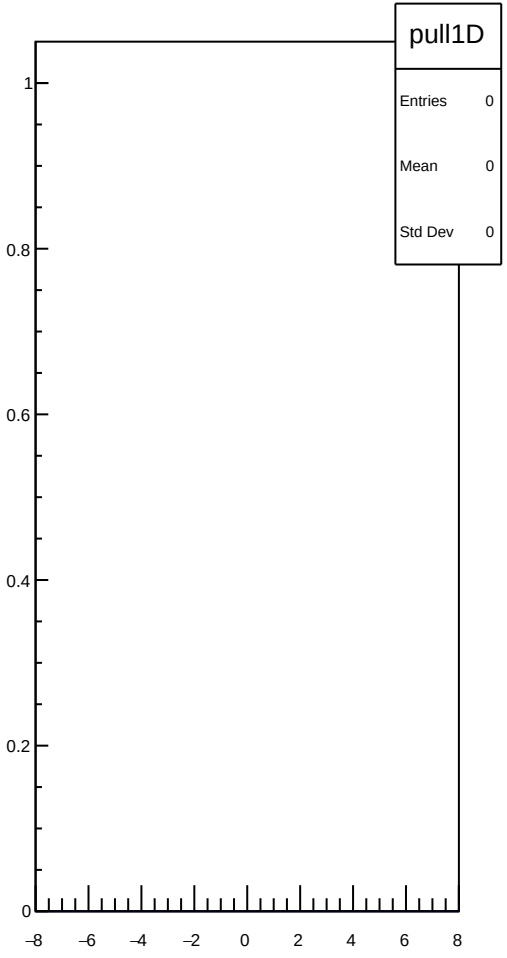
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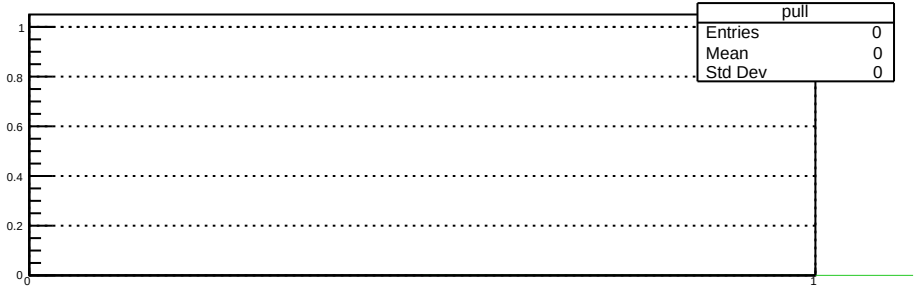
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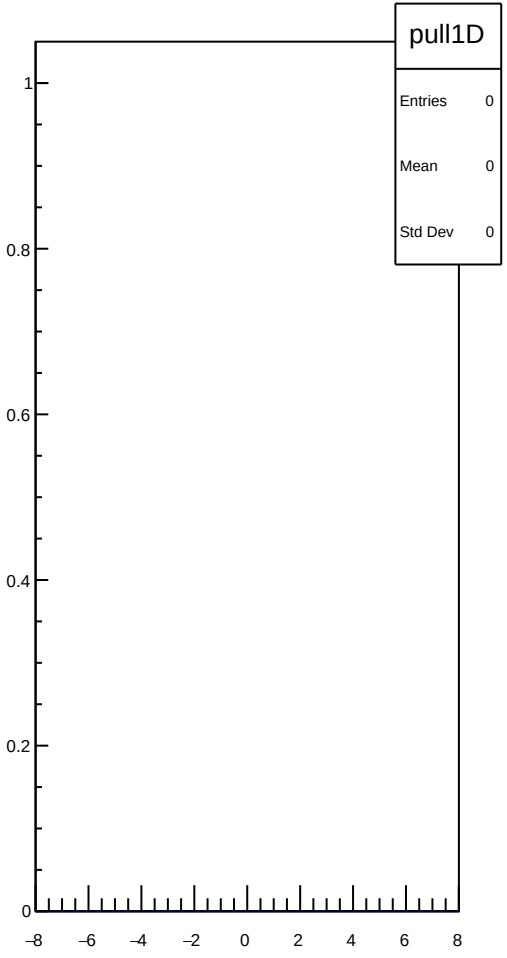
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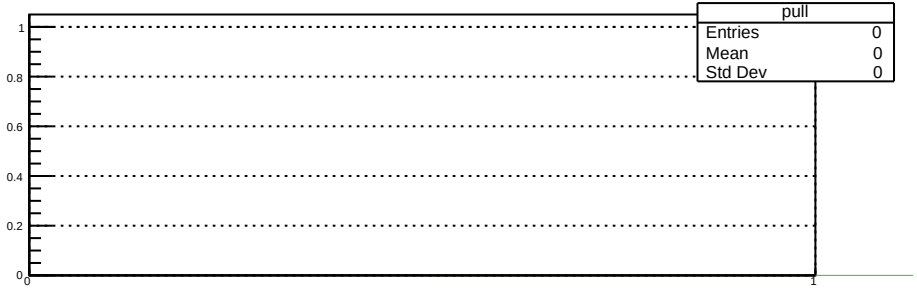
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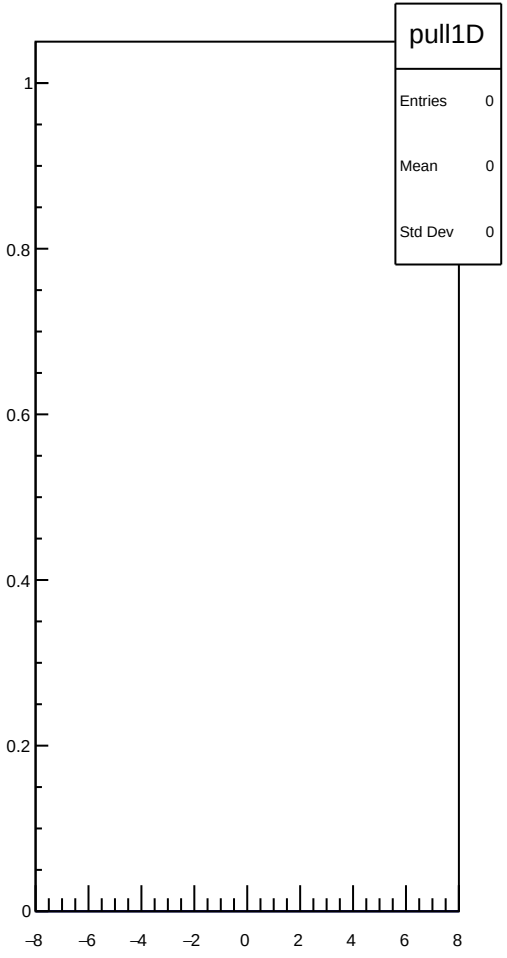
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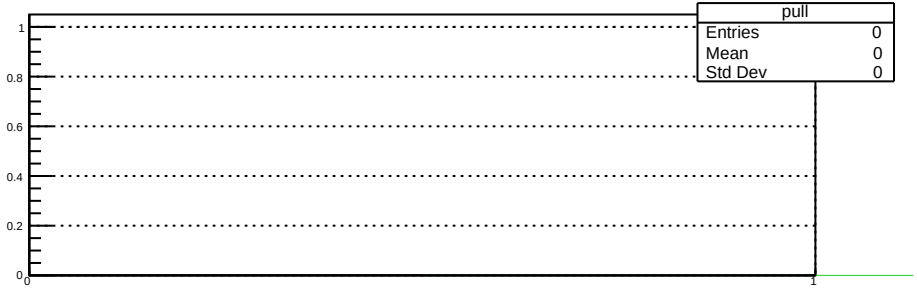
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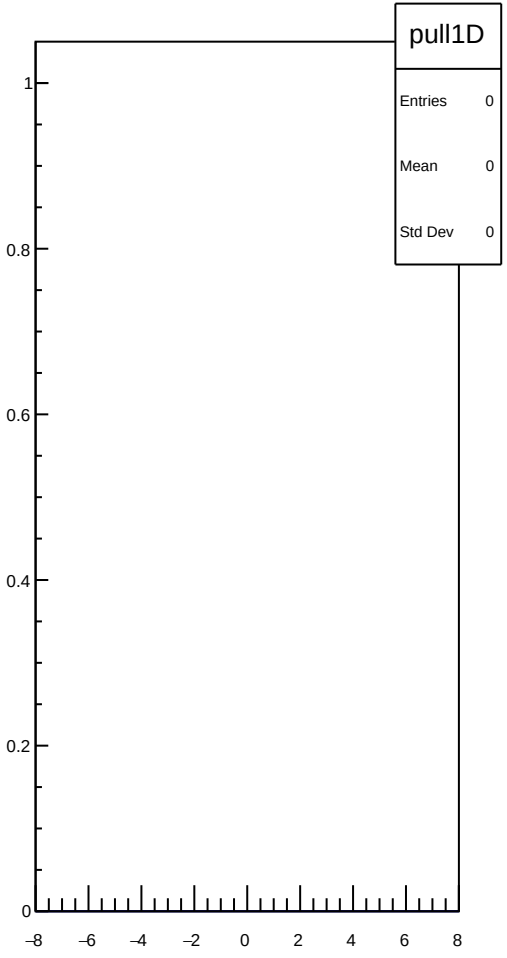
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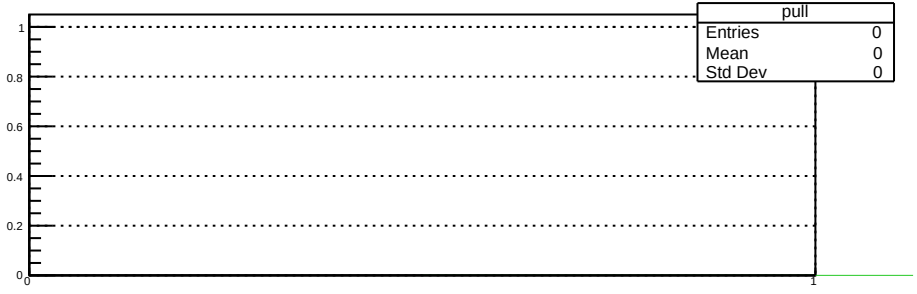
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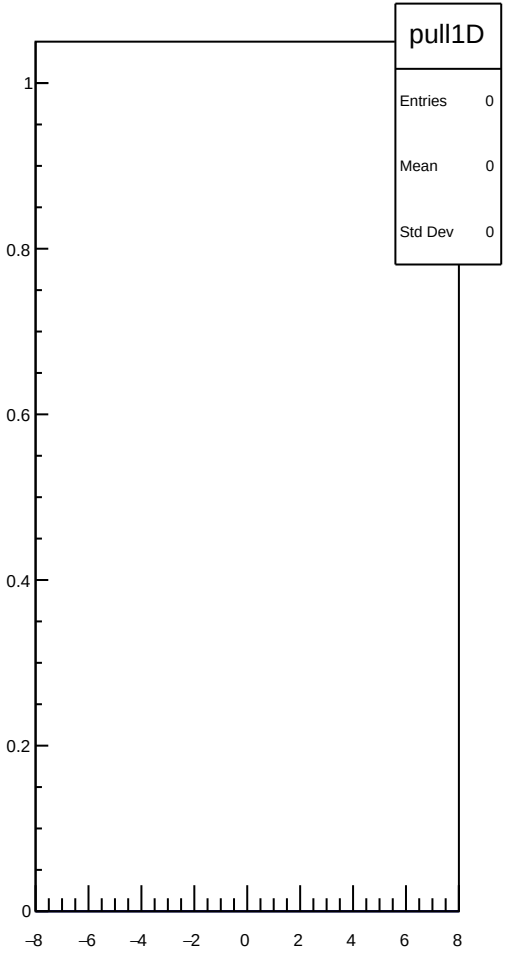
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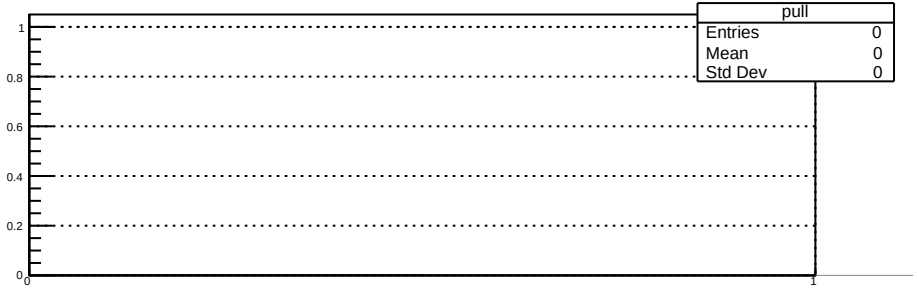
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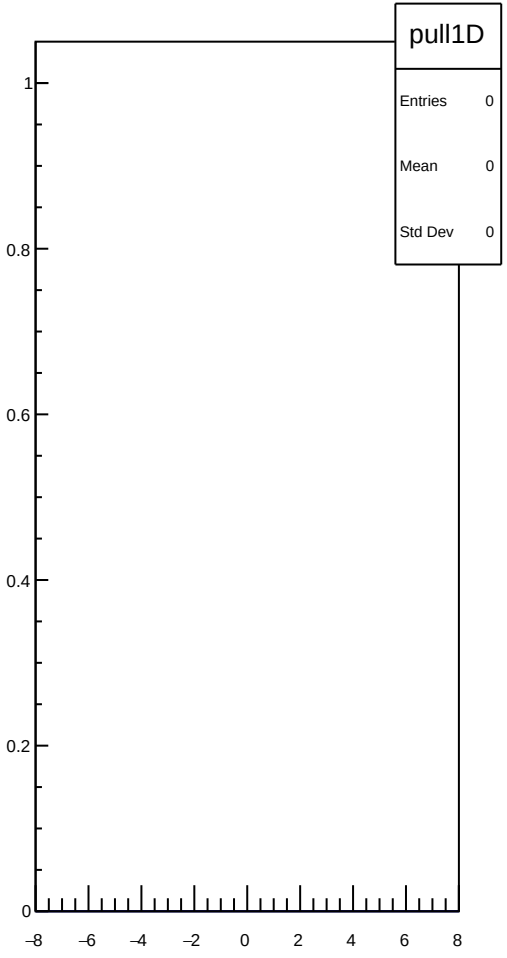
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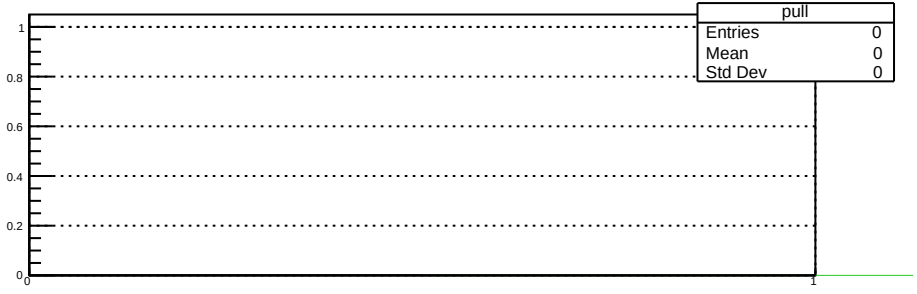
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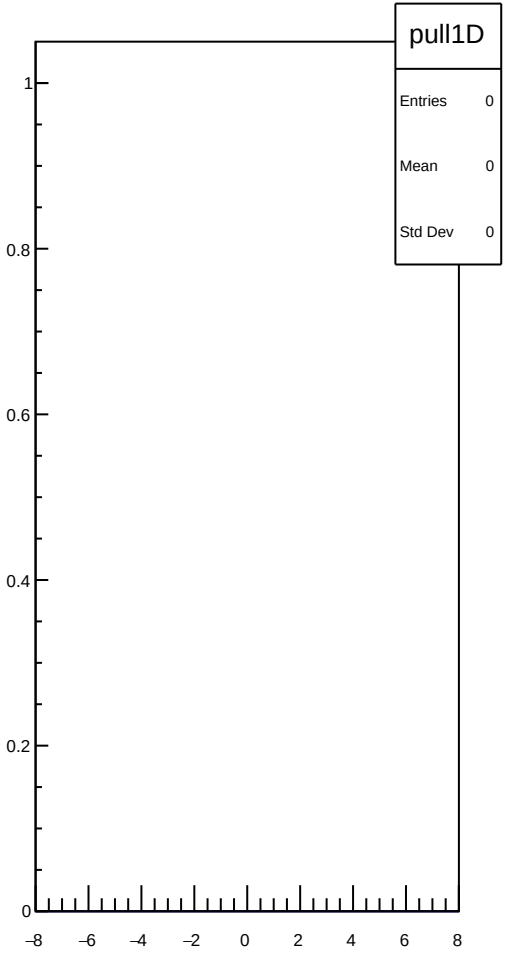
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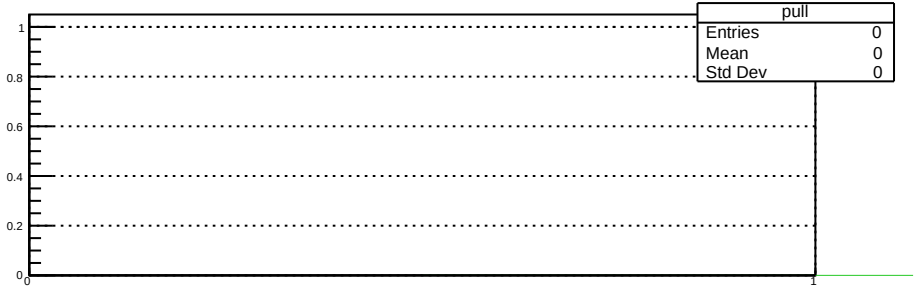
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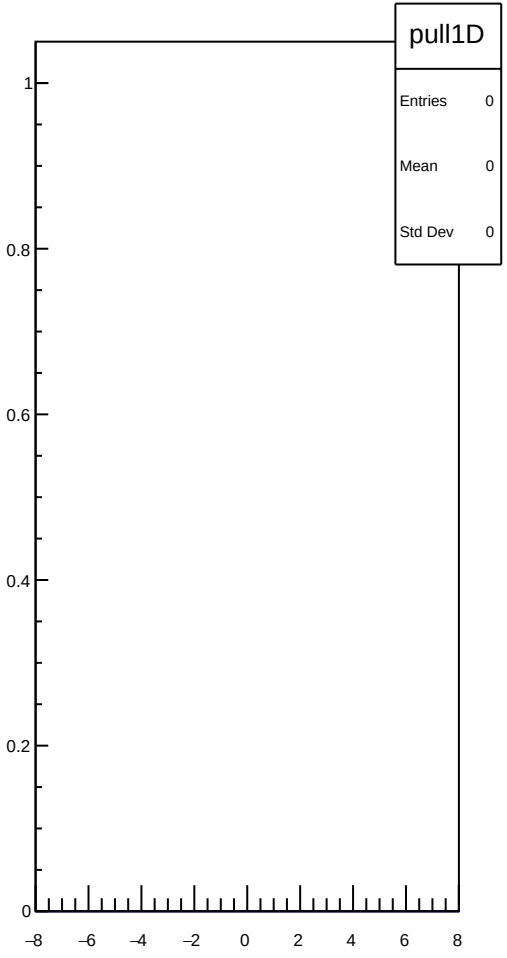
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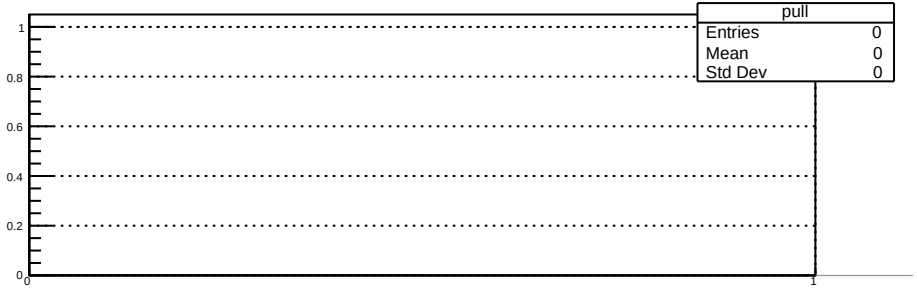
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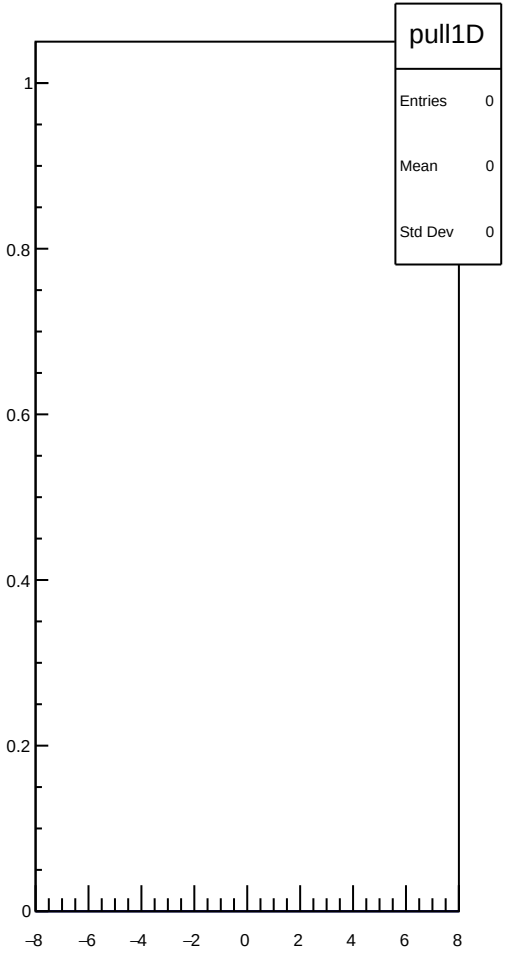
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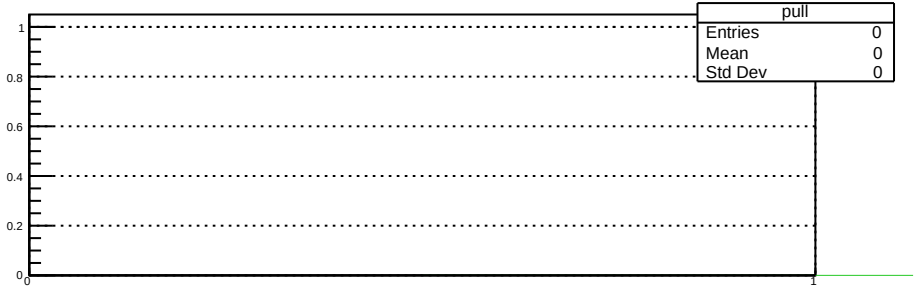
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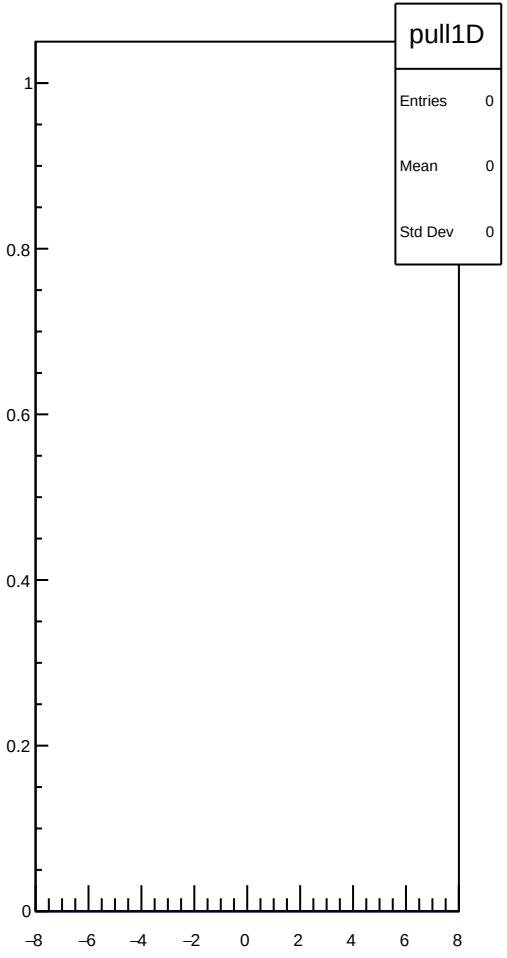
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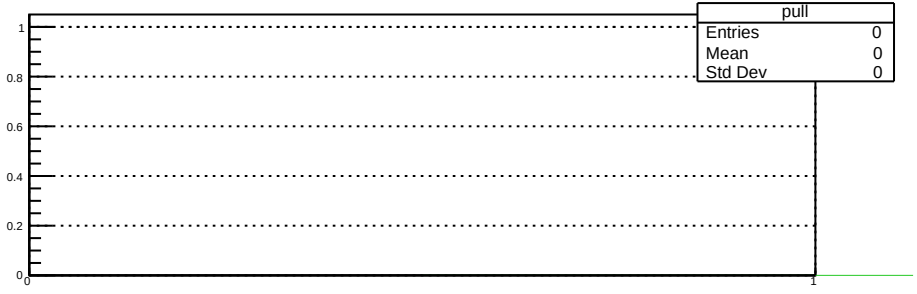
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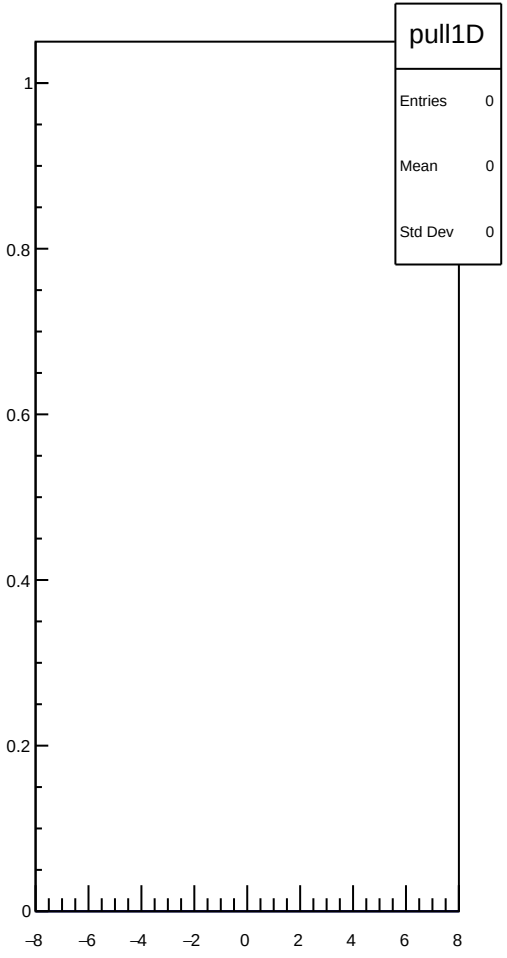
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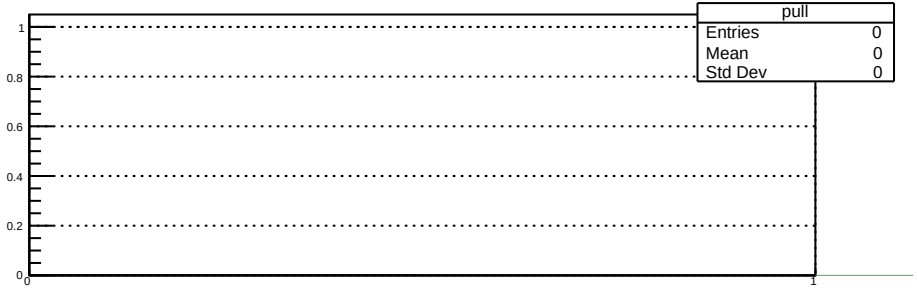
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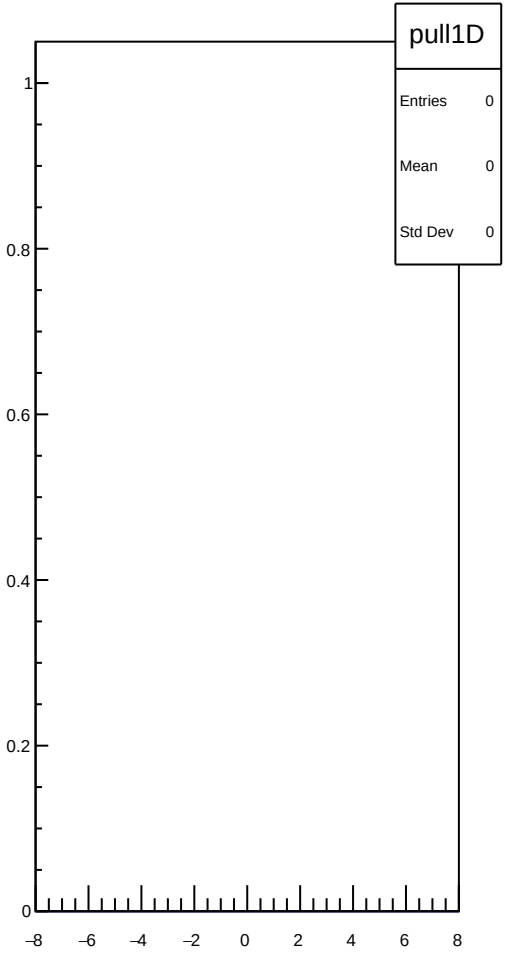
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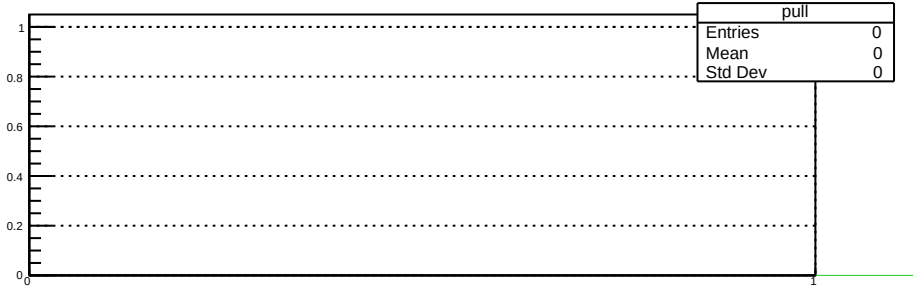
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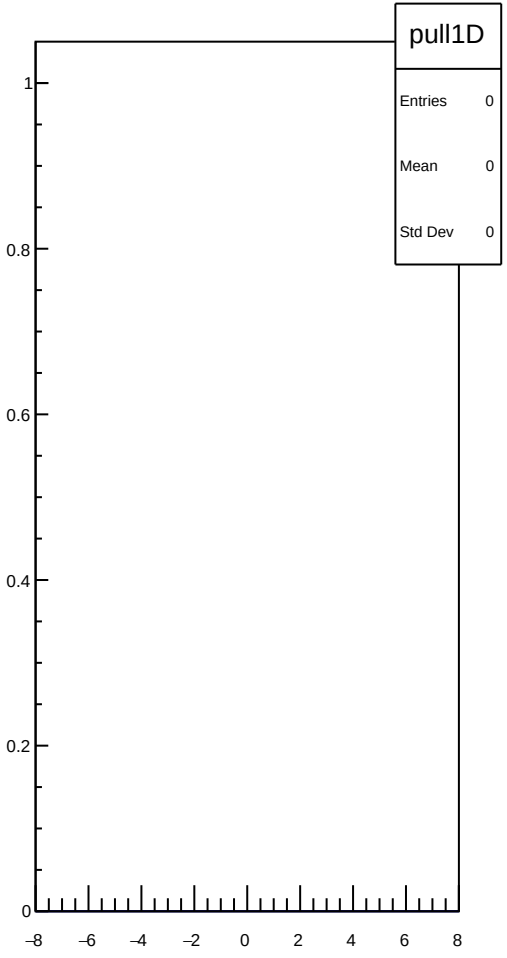
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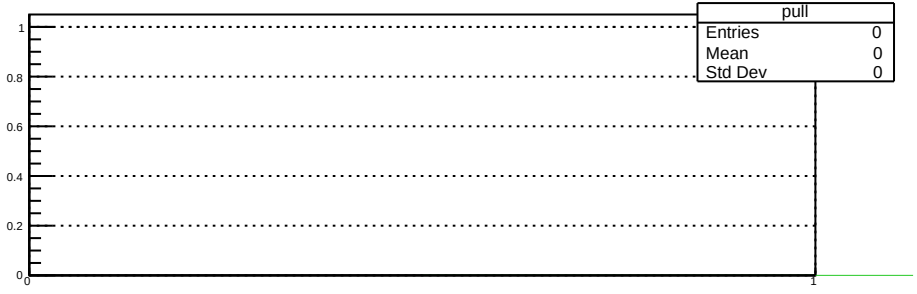
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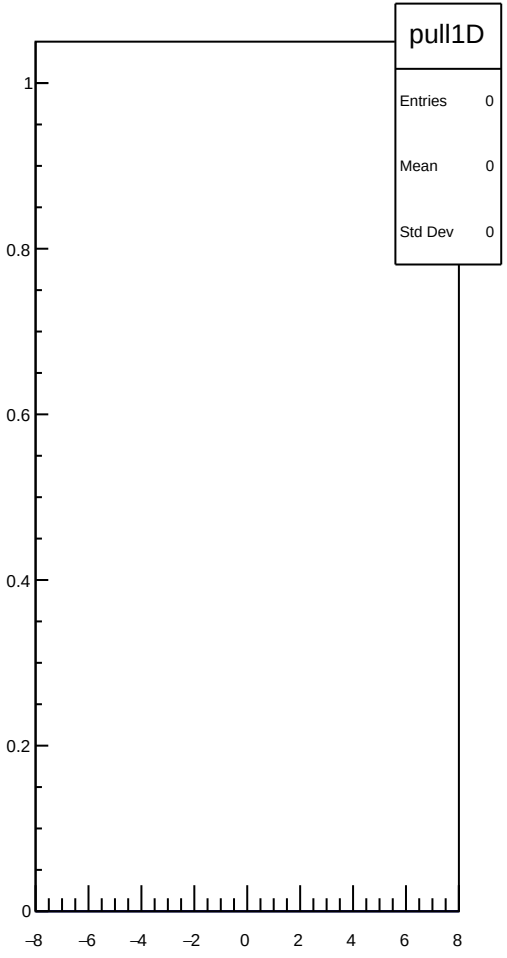
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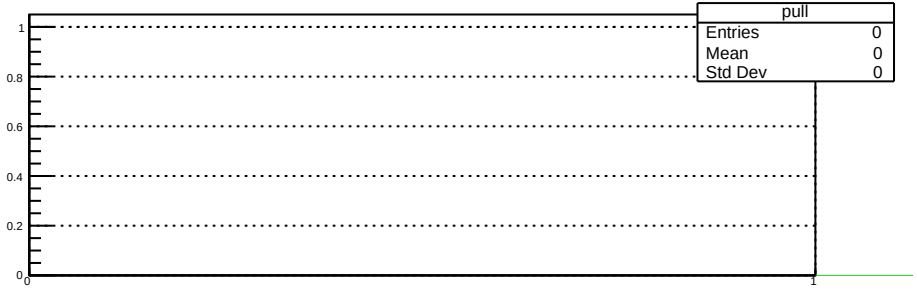
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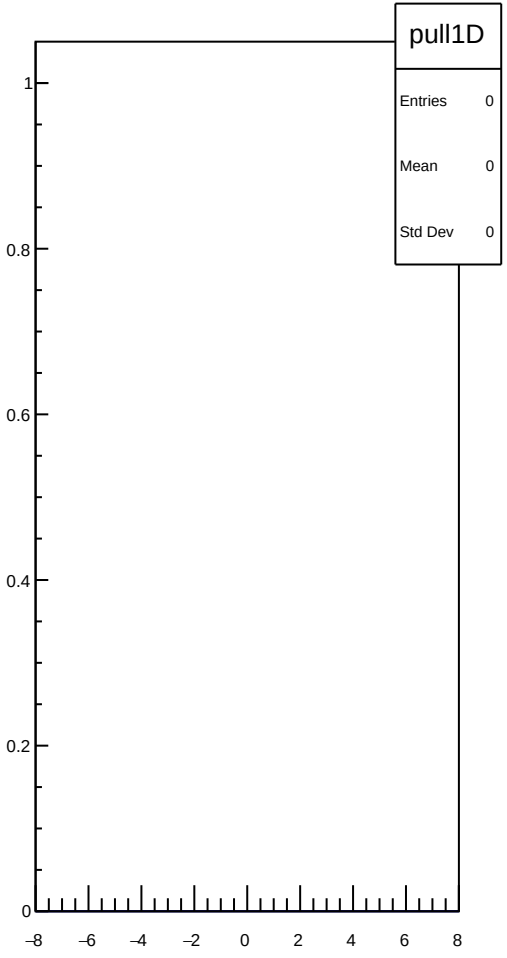
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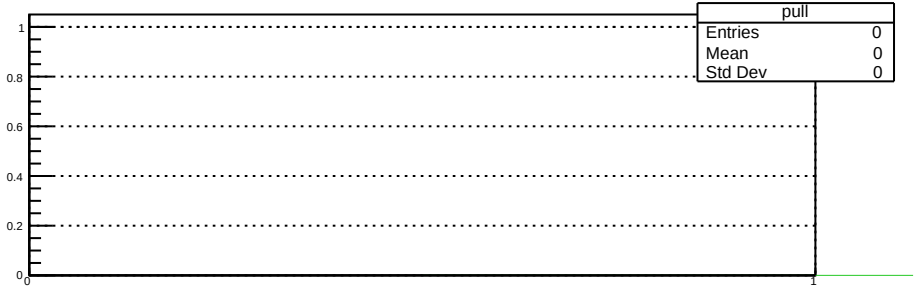
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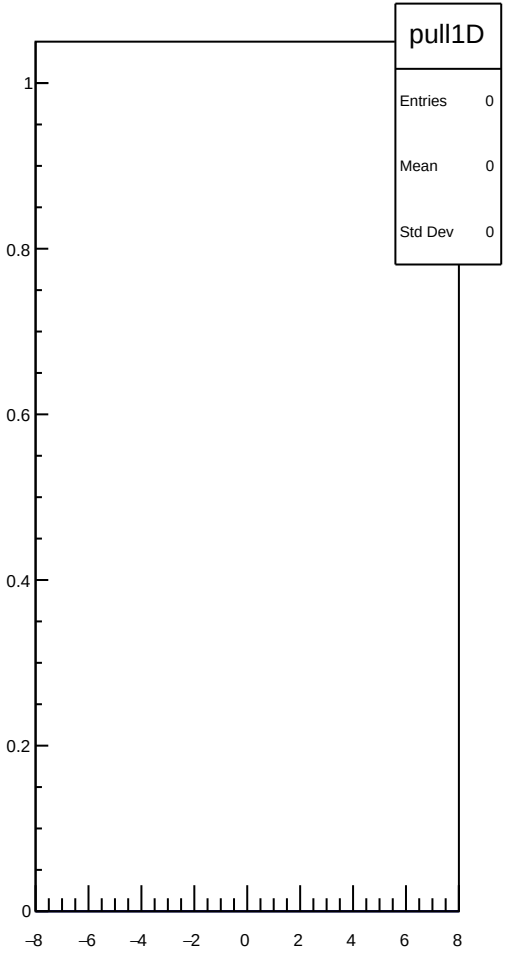
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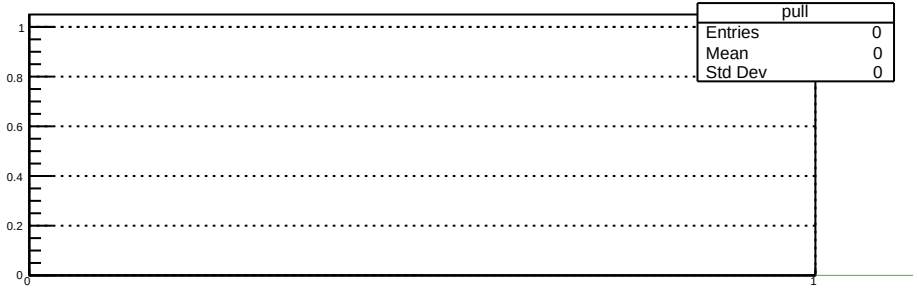
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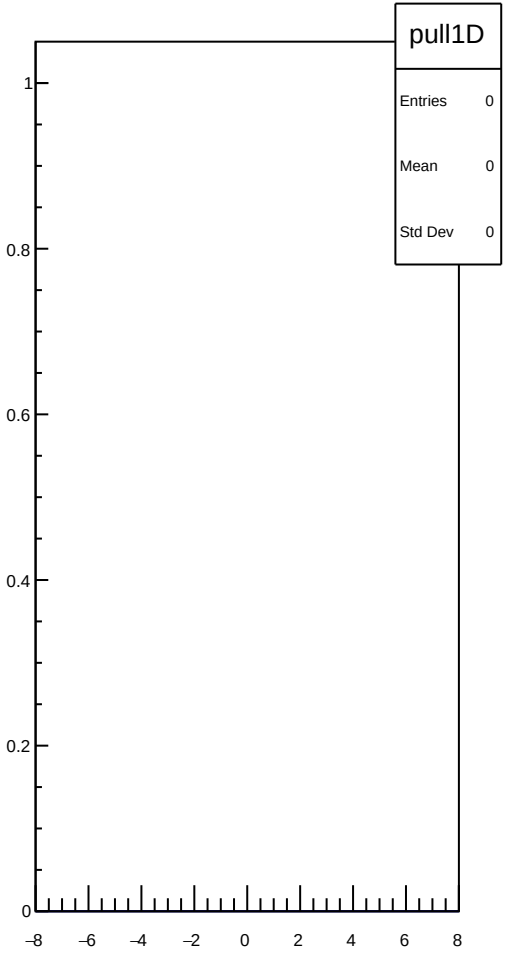
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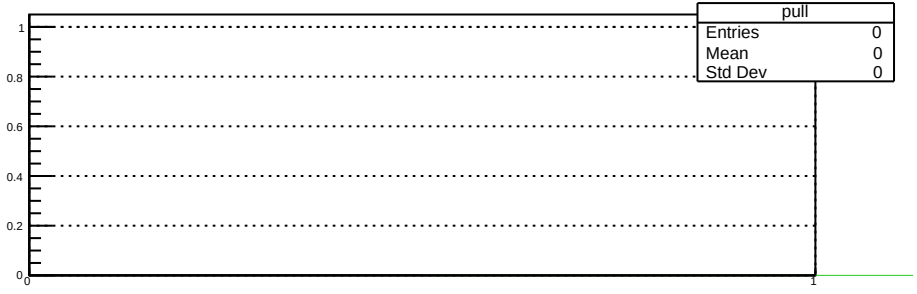
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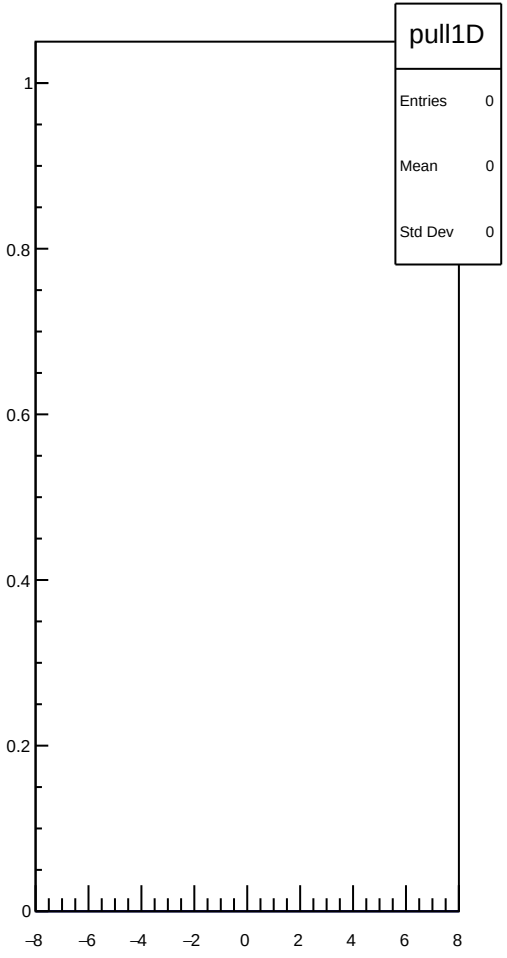
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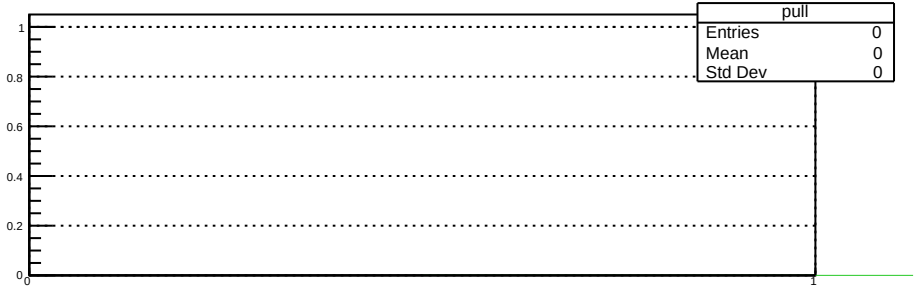
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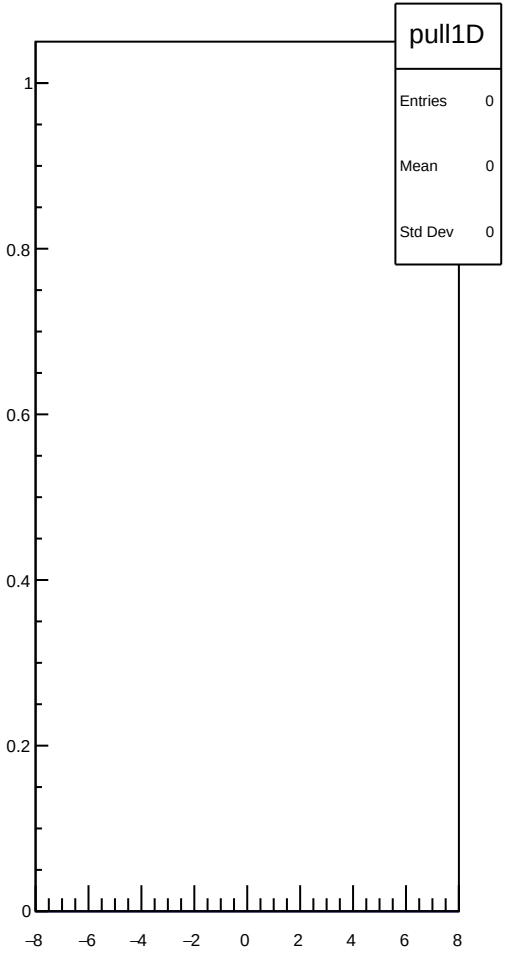
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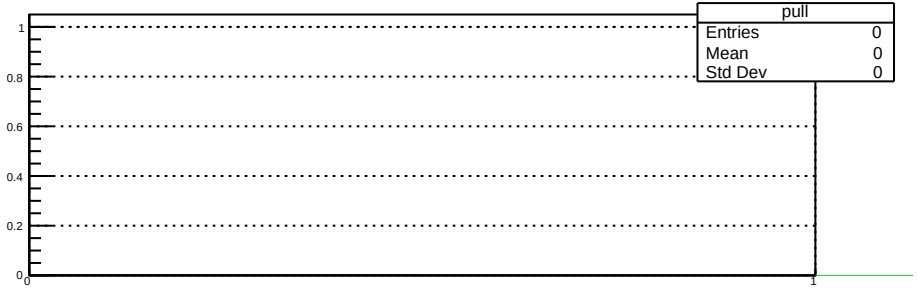
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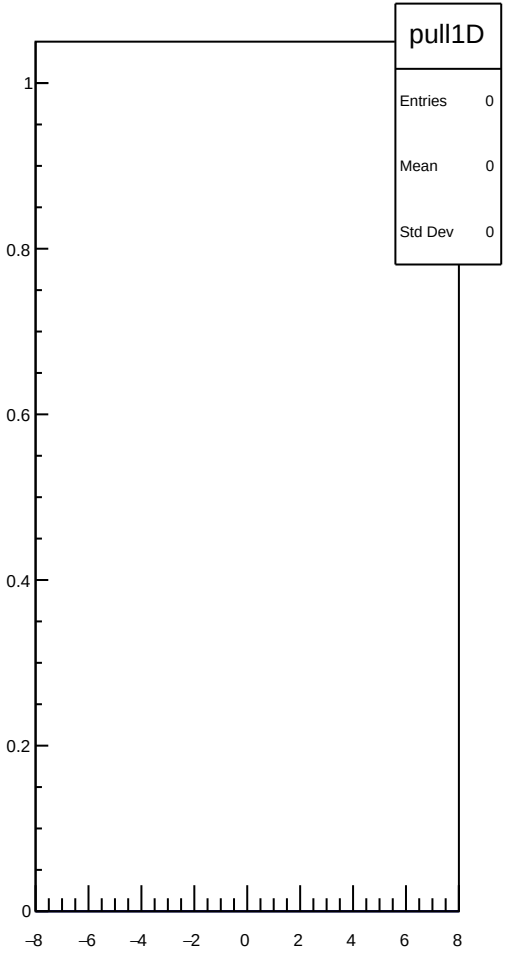
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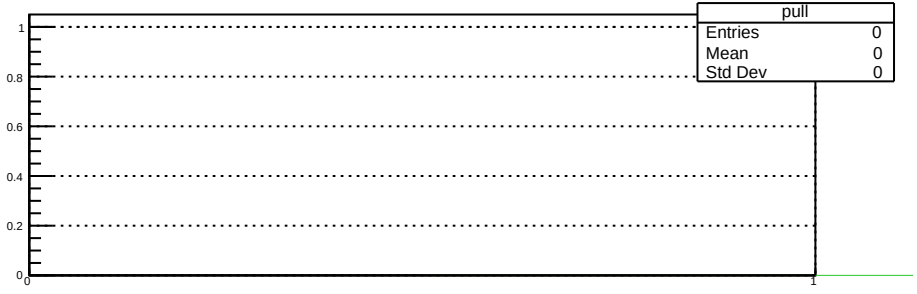
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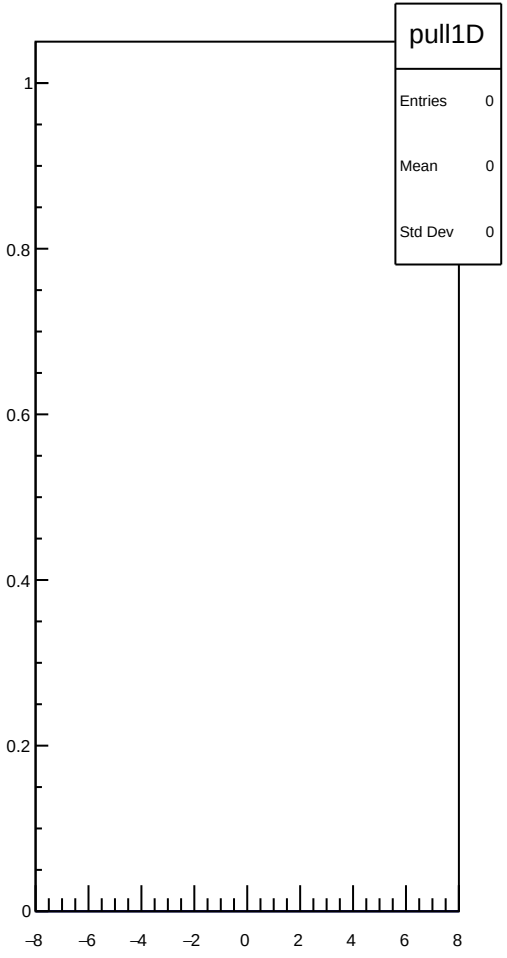
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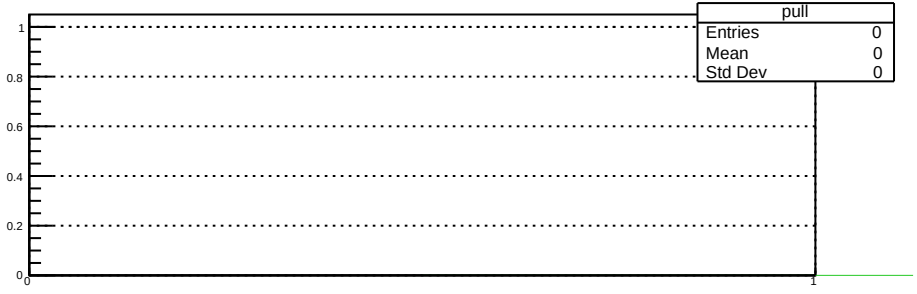
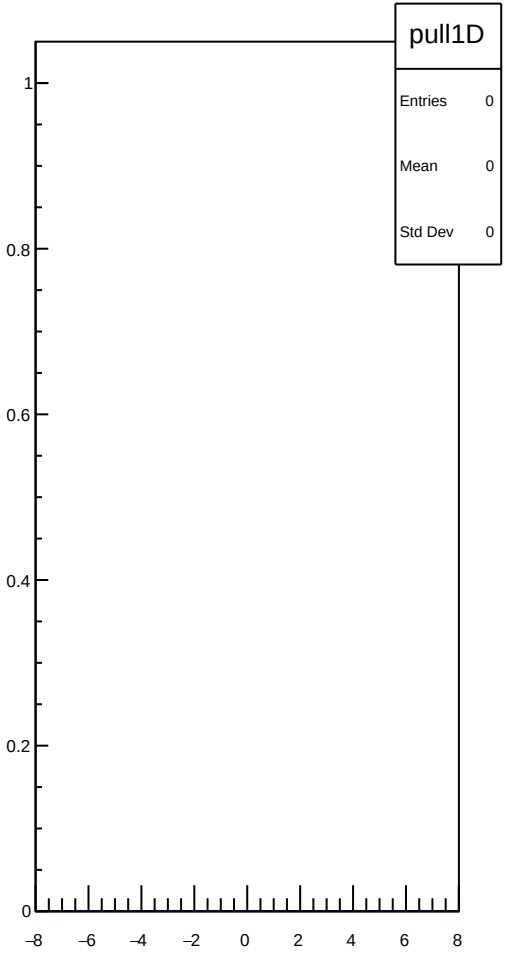
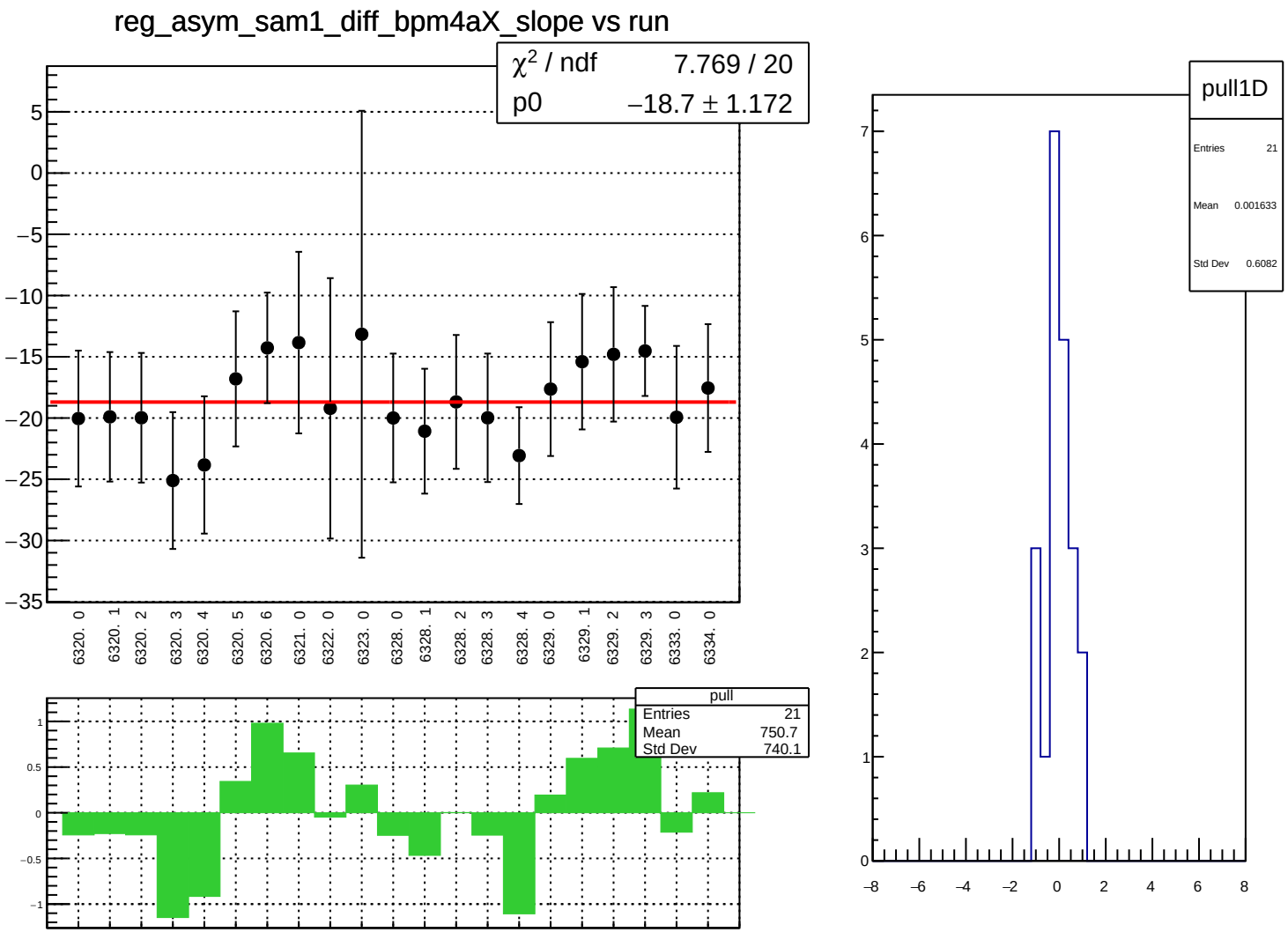
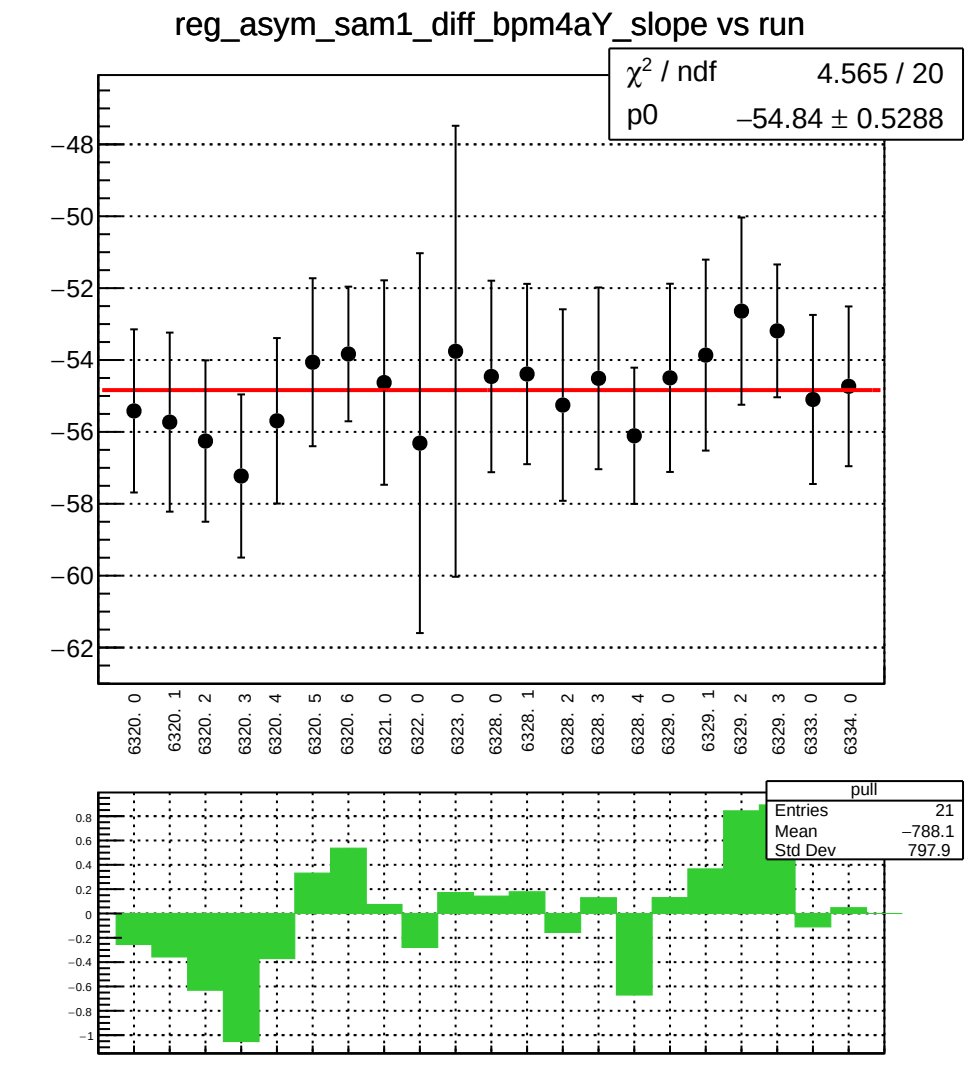
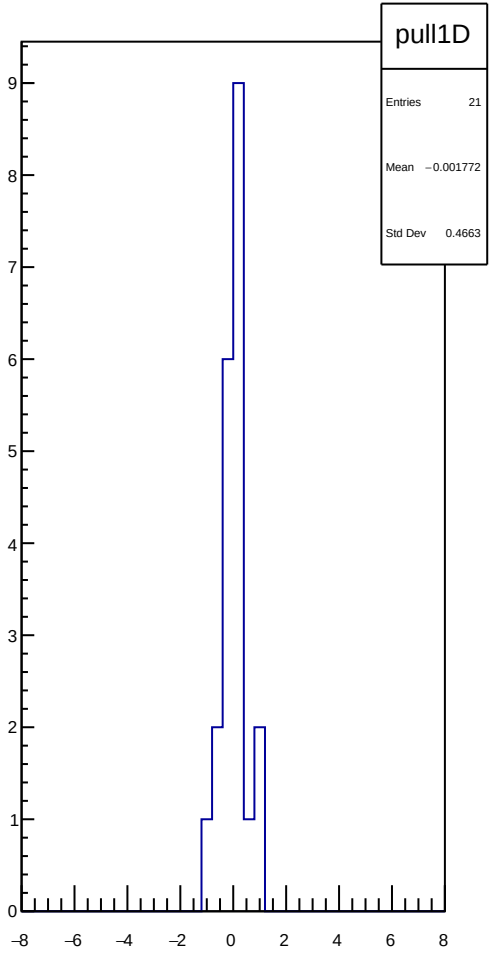
0
2
4
6
8

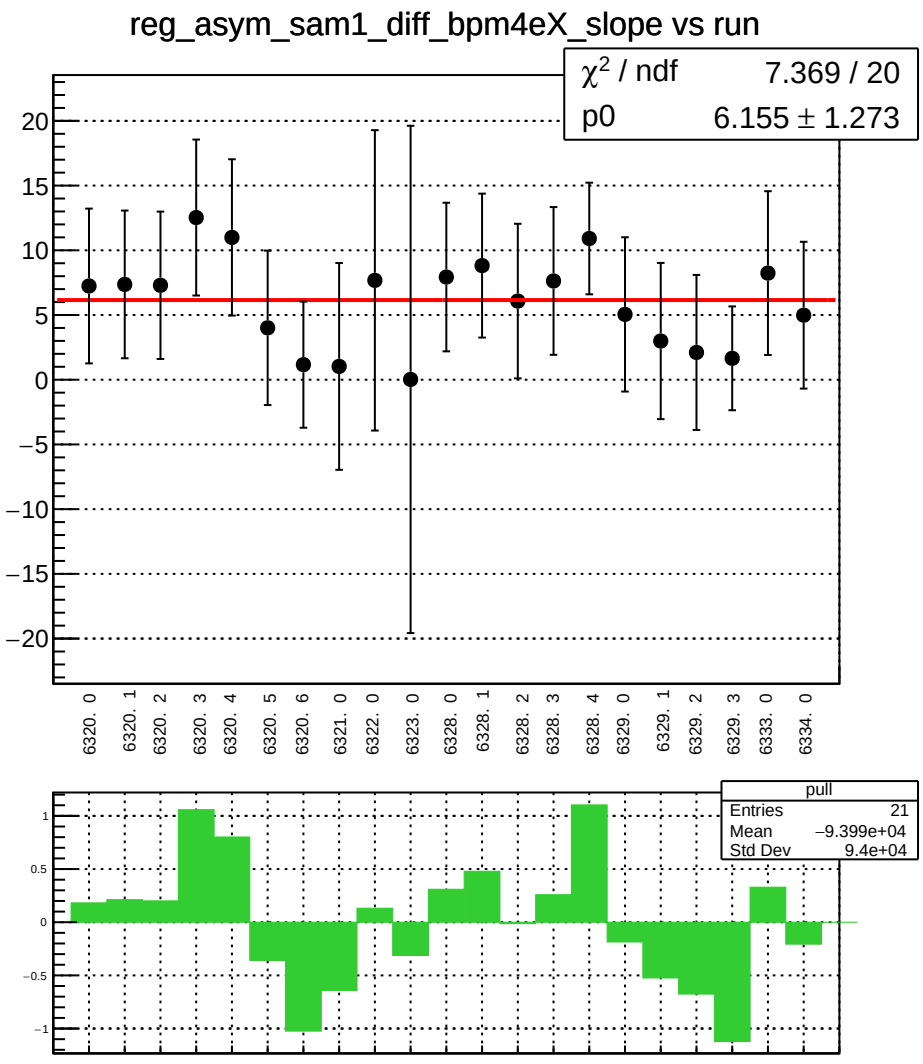

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

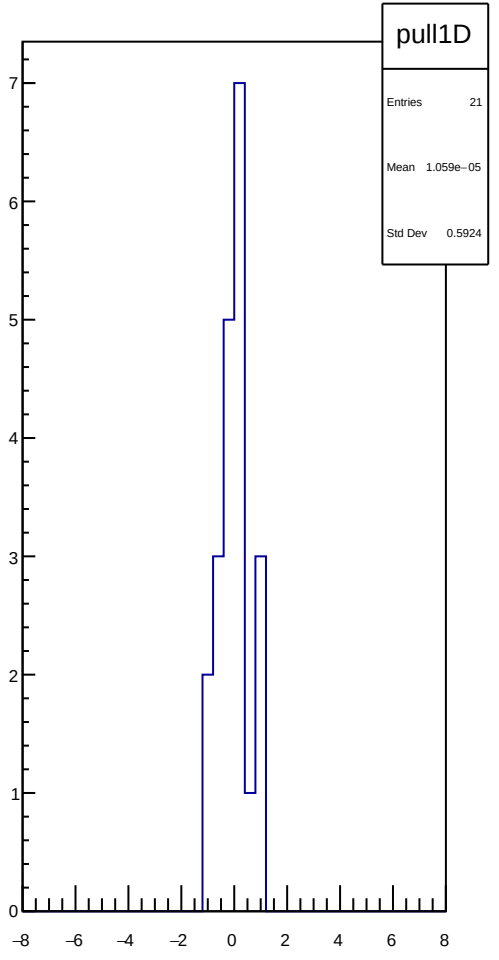

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

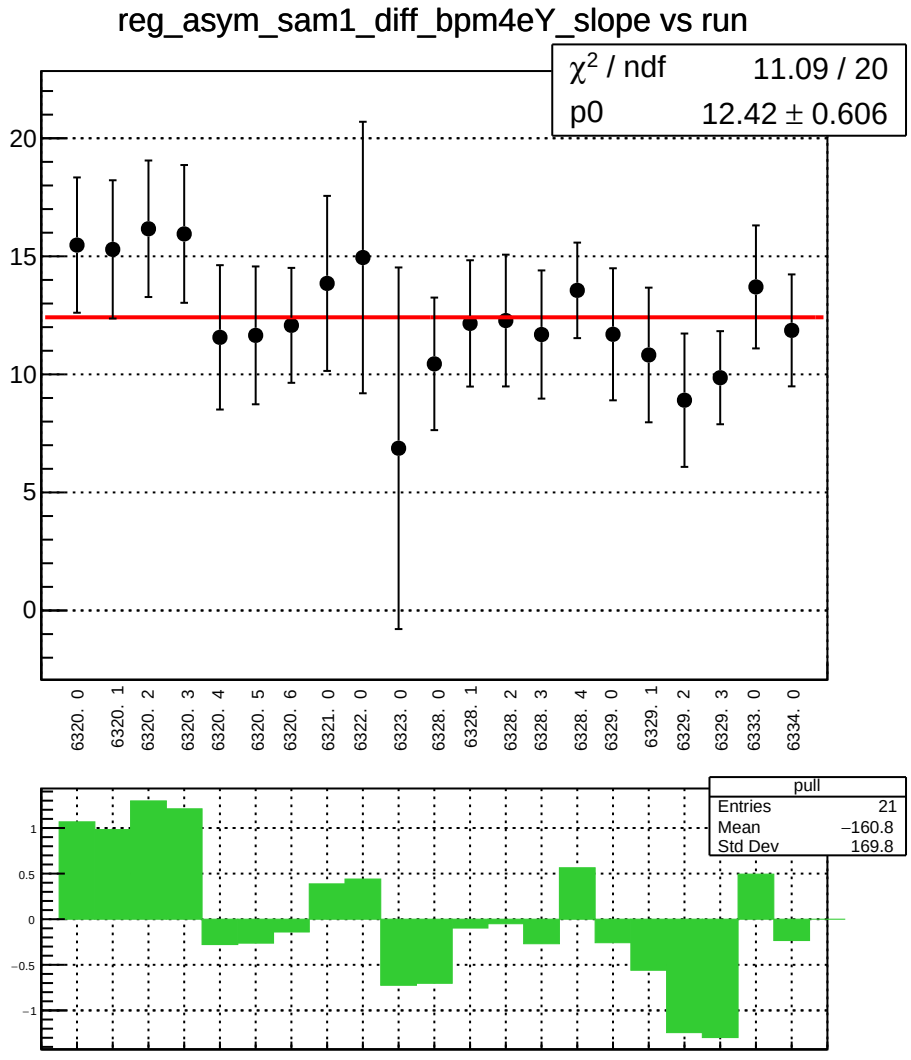

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 7.769 / 20
p0 −18.7 ± 1.172
5
0
−5
−10
−15
−20
−25
−30
−35
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 750.7
Std Dev 740.1
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.001633
Std Dev 0.6082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

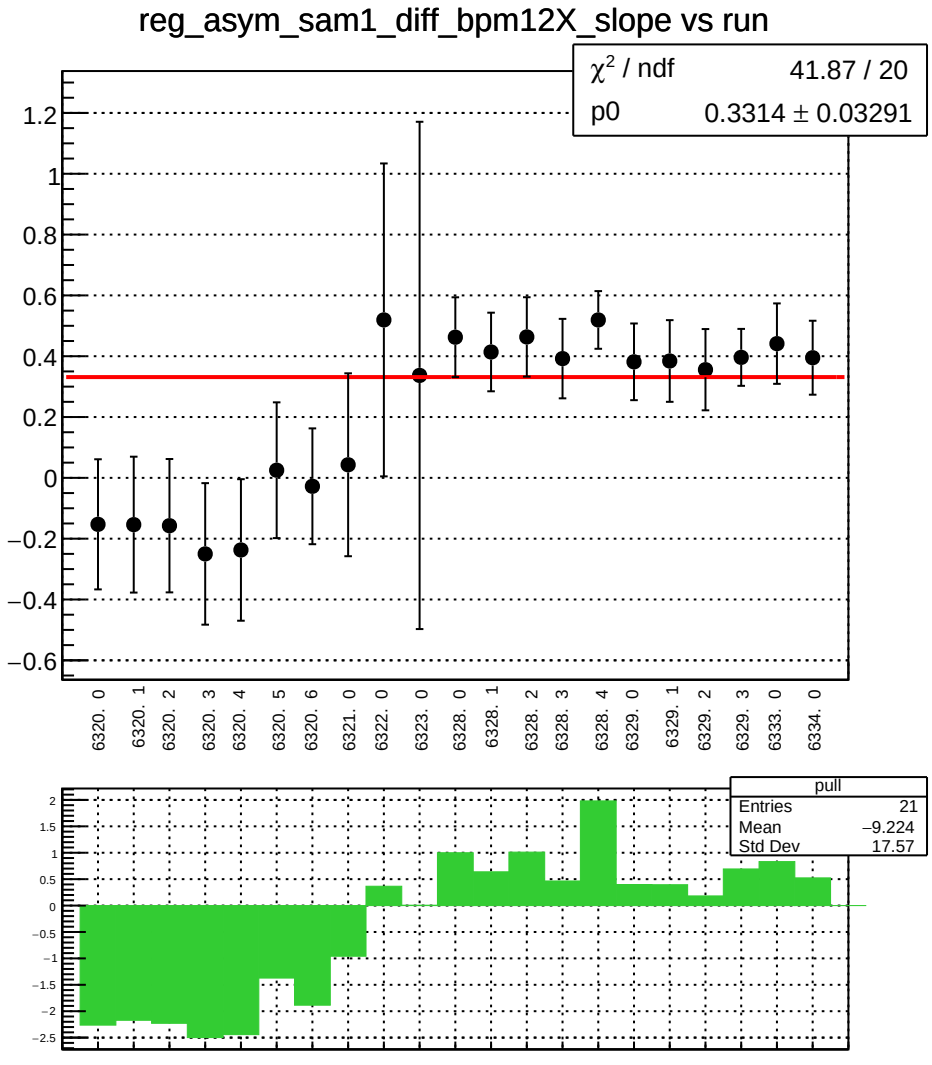

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.565 / 20
p0 −54.84 ± 0.5288
−48
−50
−52
−54
−56
−58
−60
−62
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −788.1
Std Dev 797.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

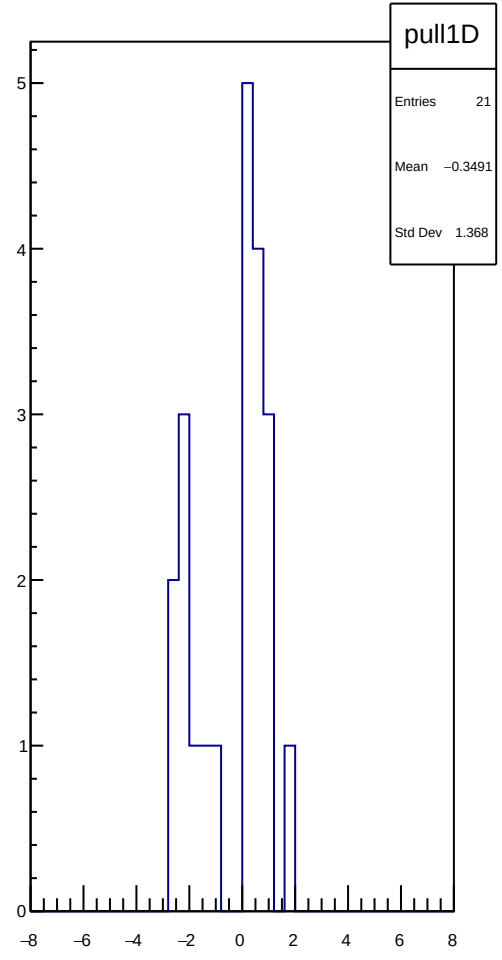

pull1D
Entries 21
Mean −0.001772
Std Dev 0.4663
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

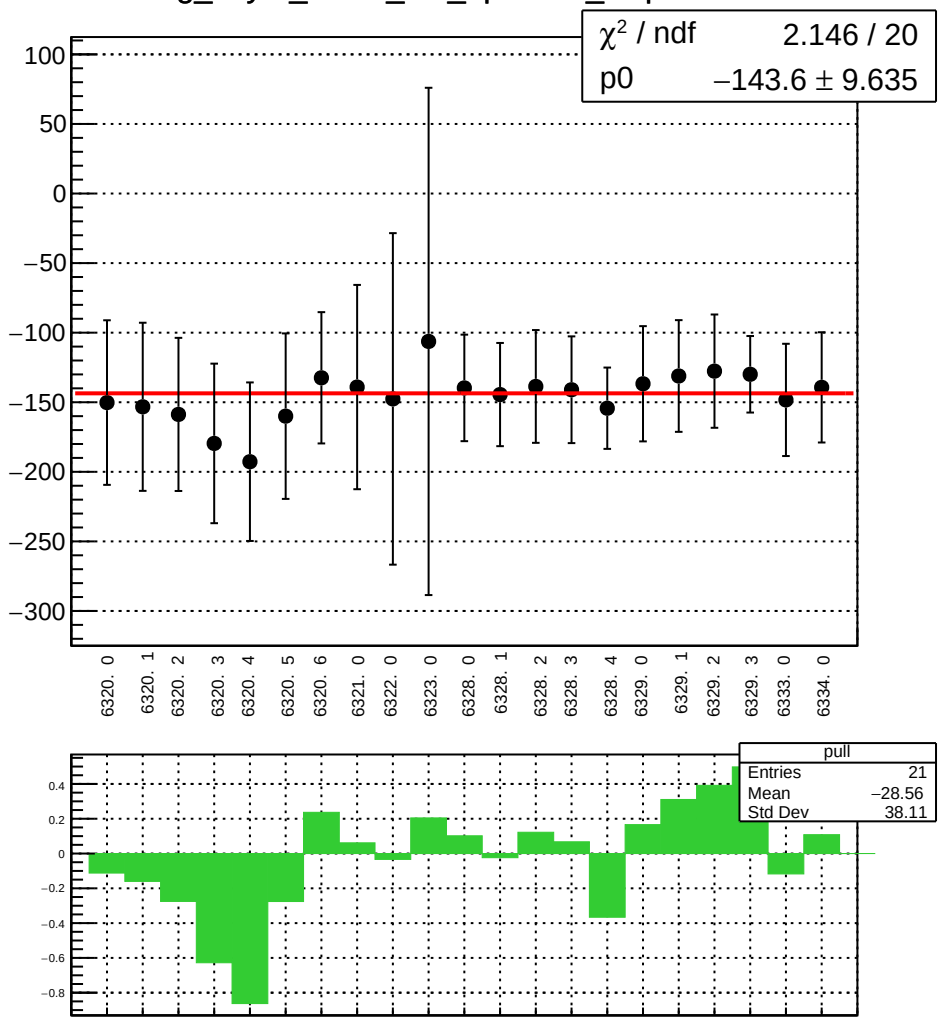

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 7.369 / 20
p0 6.155 ± 1.273
20
15
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.399e+04
Std Dev 9.4e+04
1
0.5
0
−0.5
−1

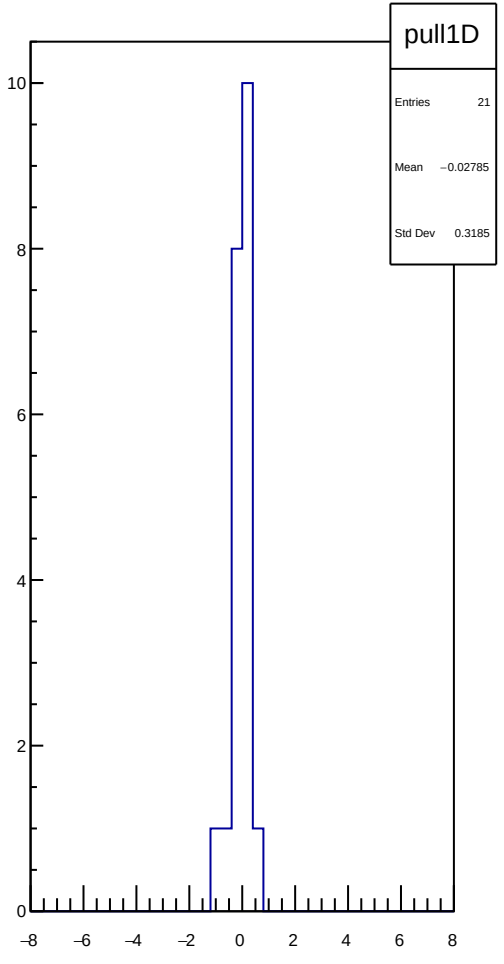

pull1D
Entries 21
Mean 1.059e−05
Std Dev 0.5924
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

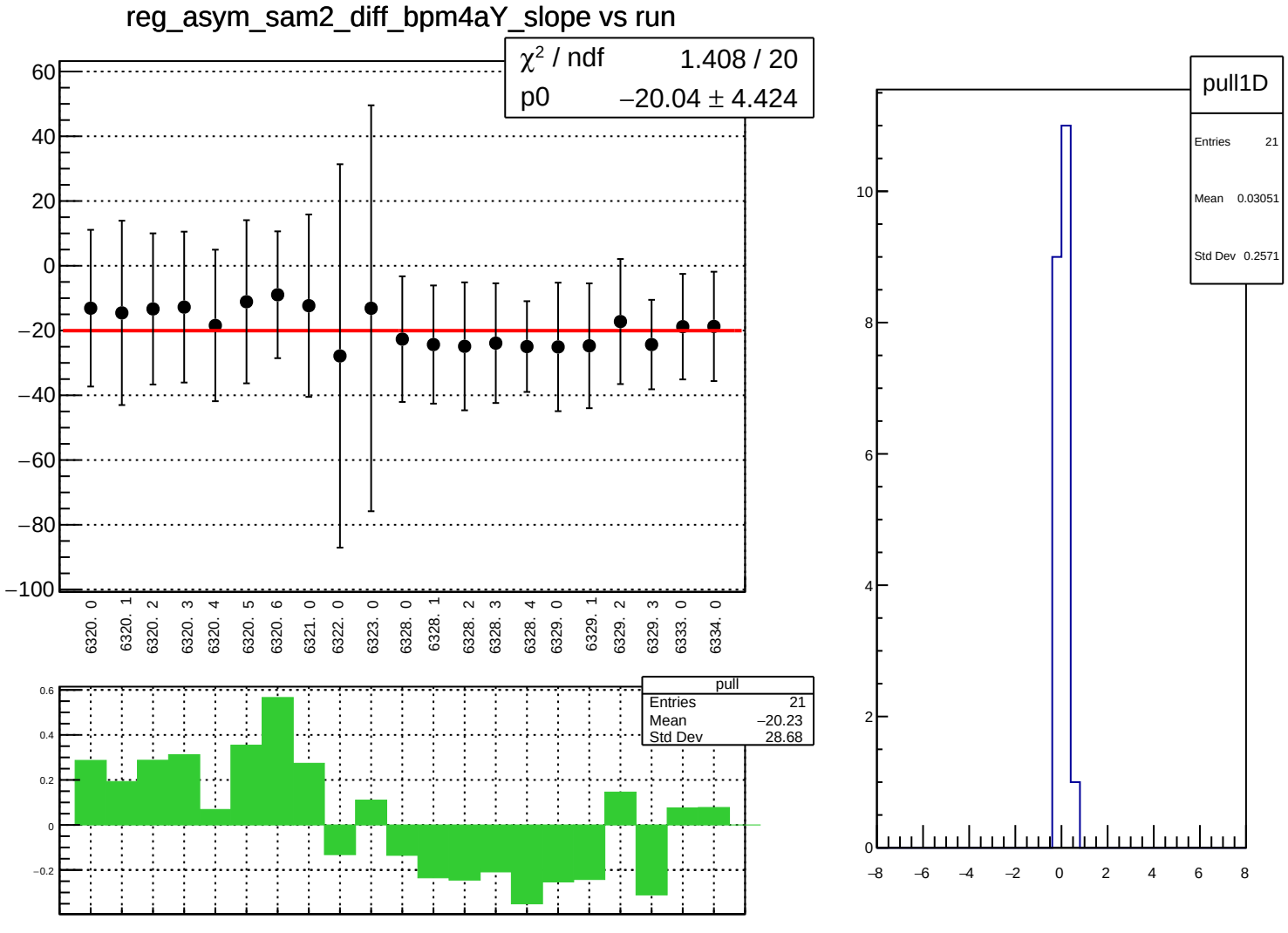

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 11.09 / 20
p0 12.42 ± 0.606
20
15
10
5
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −160.8
Std Dev 169.8
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.01571
Std Dev 0.7265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

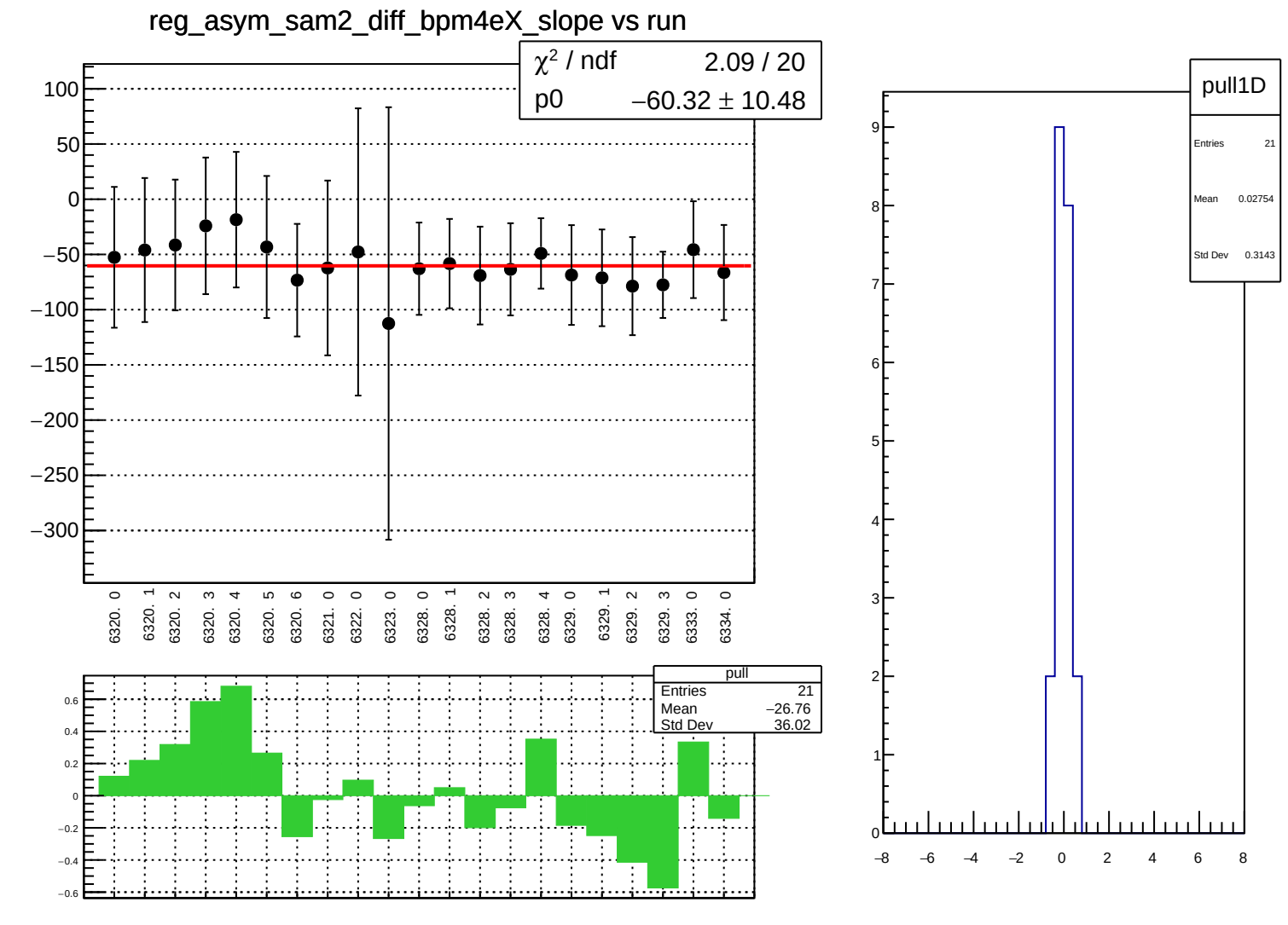

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 41.87 / 20
p0 0.3314 ± 0.03291
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.224
Std Dev 17.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

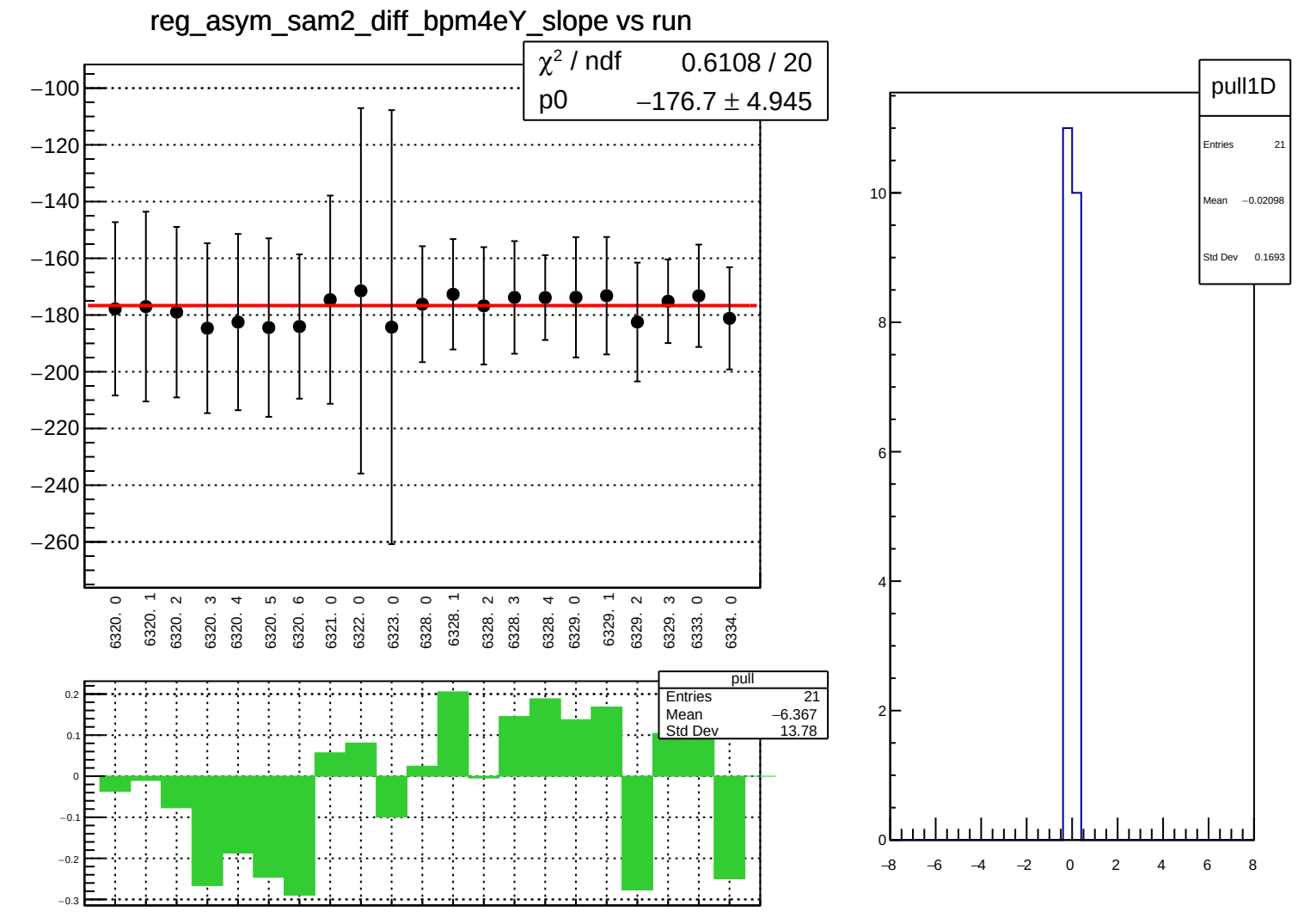

pull1D
Entries 21
Mean −0.3491
Std Dev 1.368
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

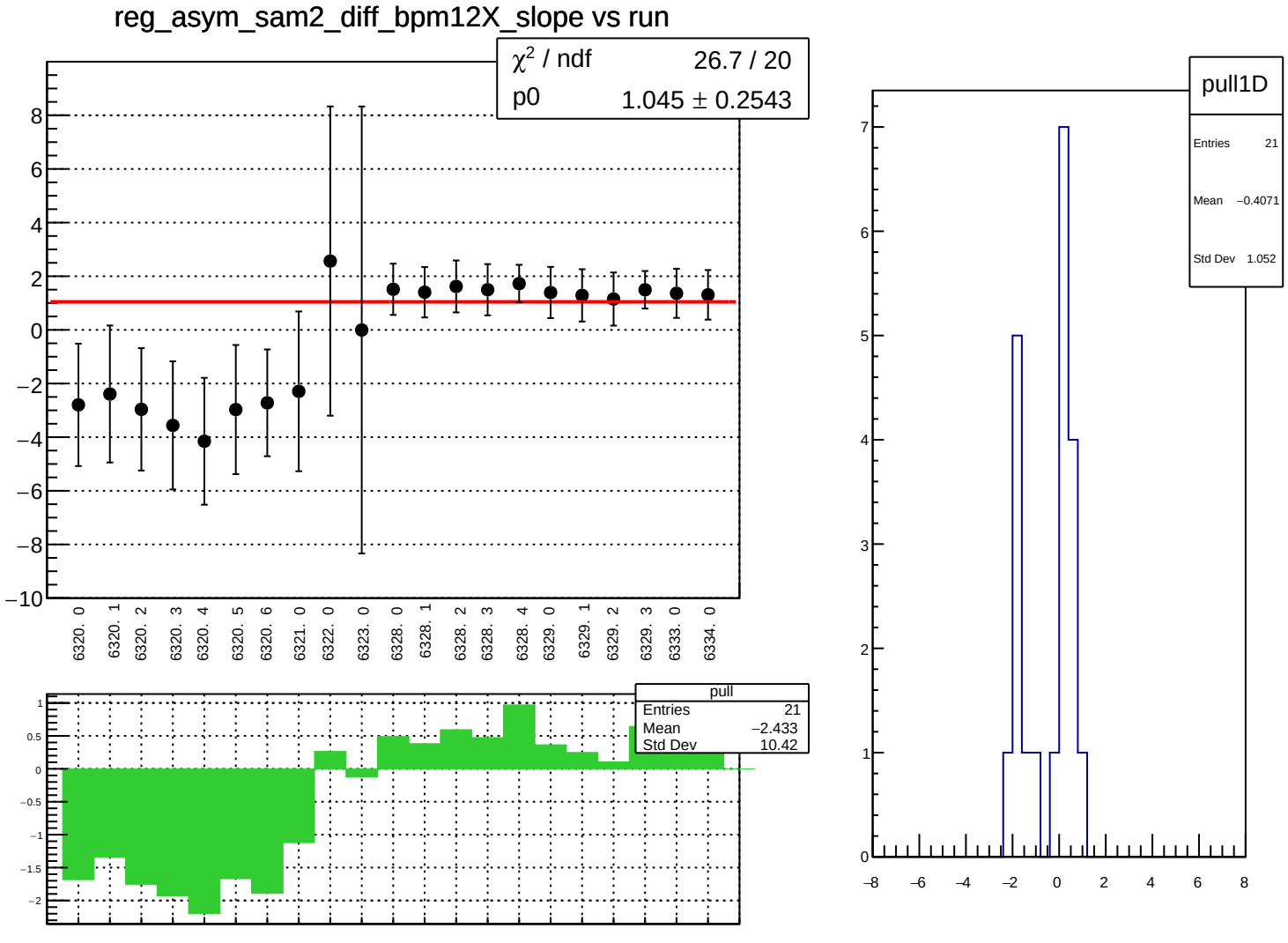

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 2.146 / 20
p0 −143.6 ± 9.635
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.56
Std Dev 38.11
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

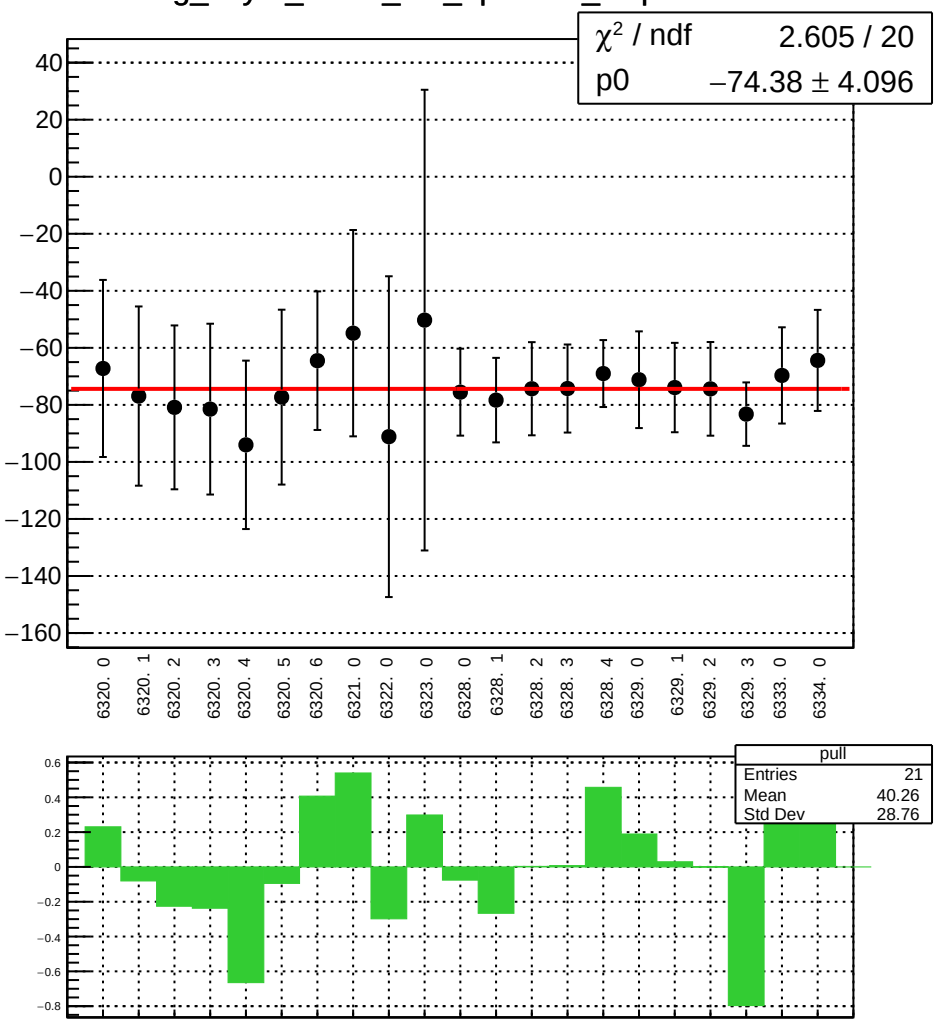

pull1D
Entries 21
Mean −0.02785
Std Dev 0.3185
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

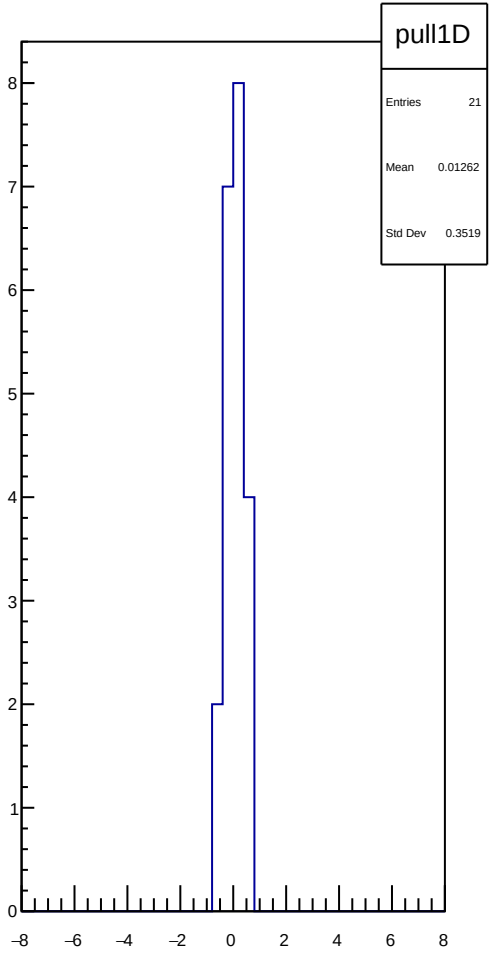

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.408 / 20
p0 −20.04 ± 4.424
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.23
Std Dev 28.68
0.6
0.4
0.2
0
−0.2
pull1D
Entries 21
Mean 0.03051
Std Dev 0.2571
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

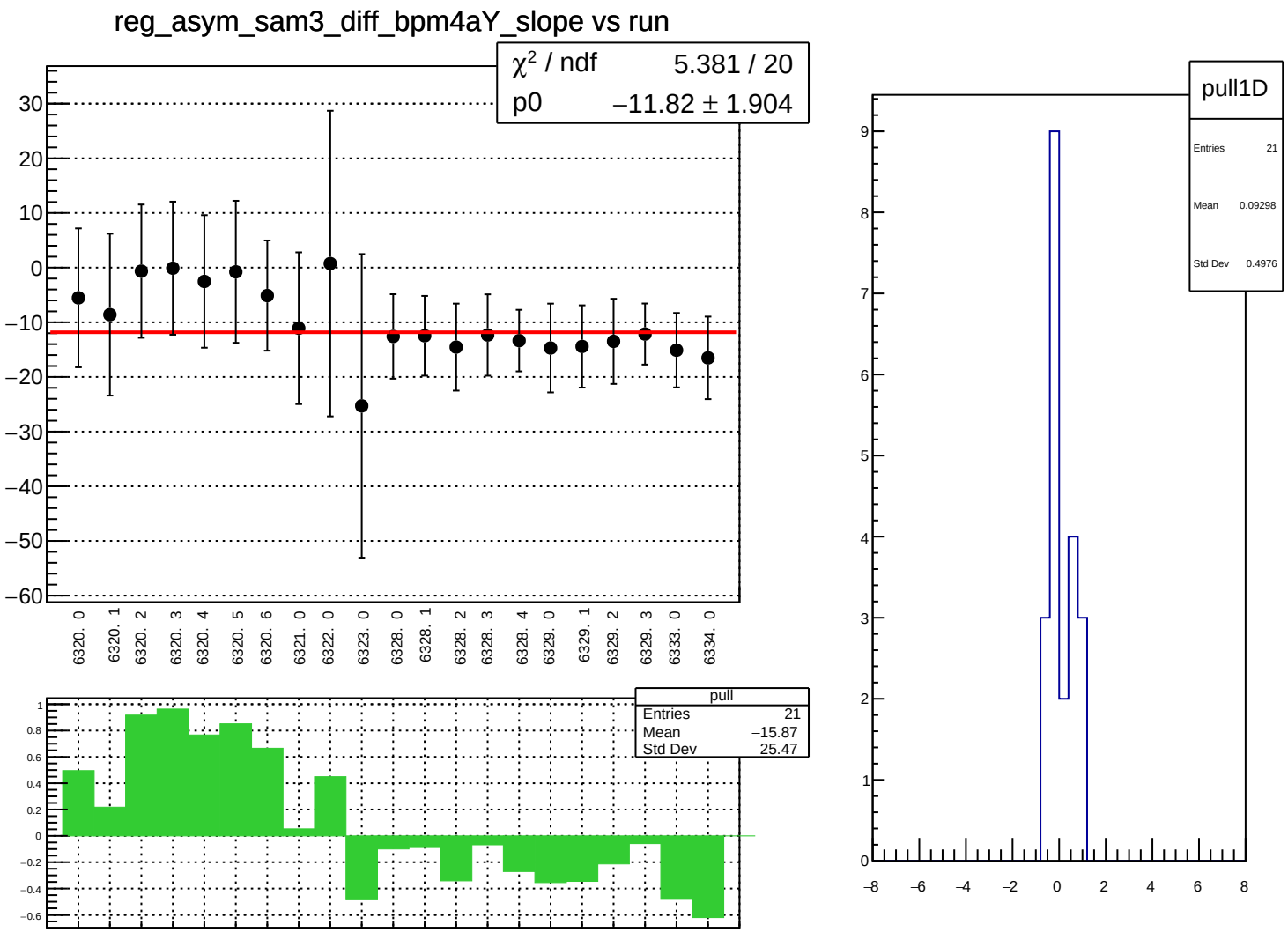

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.09 / 20
p0 −60.32 ± 10.48
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −26.76
Std Dev 36.02
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.02754
Std Dev 0.3143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

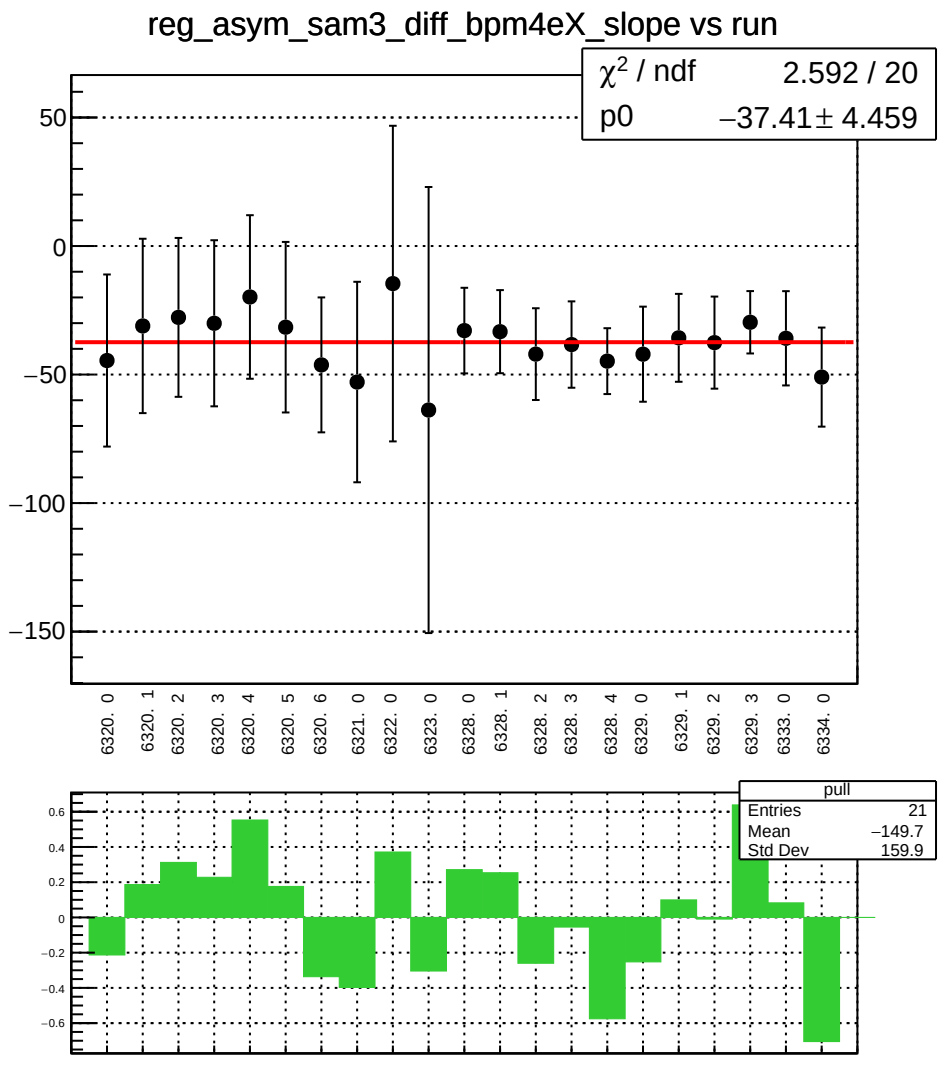

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.6108 / 20
p0 −176.7 ± 4.945
−100
−120
−140
−160
−180
−200
−220
−240
−260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.367
Std Dev 13.78
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 21
Mean −0.02098
Std Dev 0.1693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

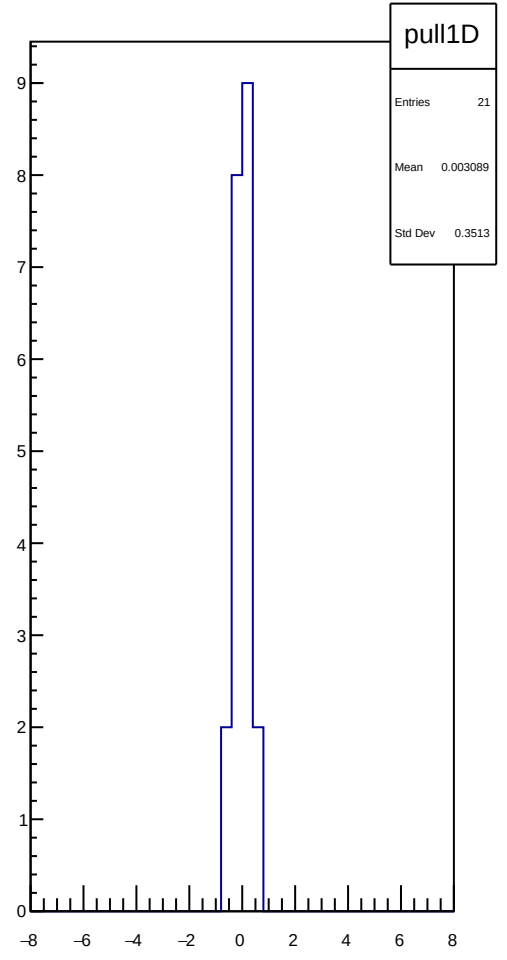

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 26.7 / 20
p0 1.045 ± 0.2543
8
6
4
2
0
−2
−4
−6
−8
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.433
Std Dev 10.42
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.4071
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

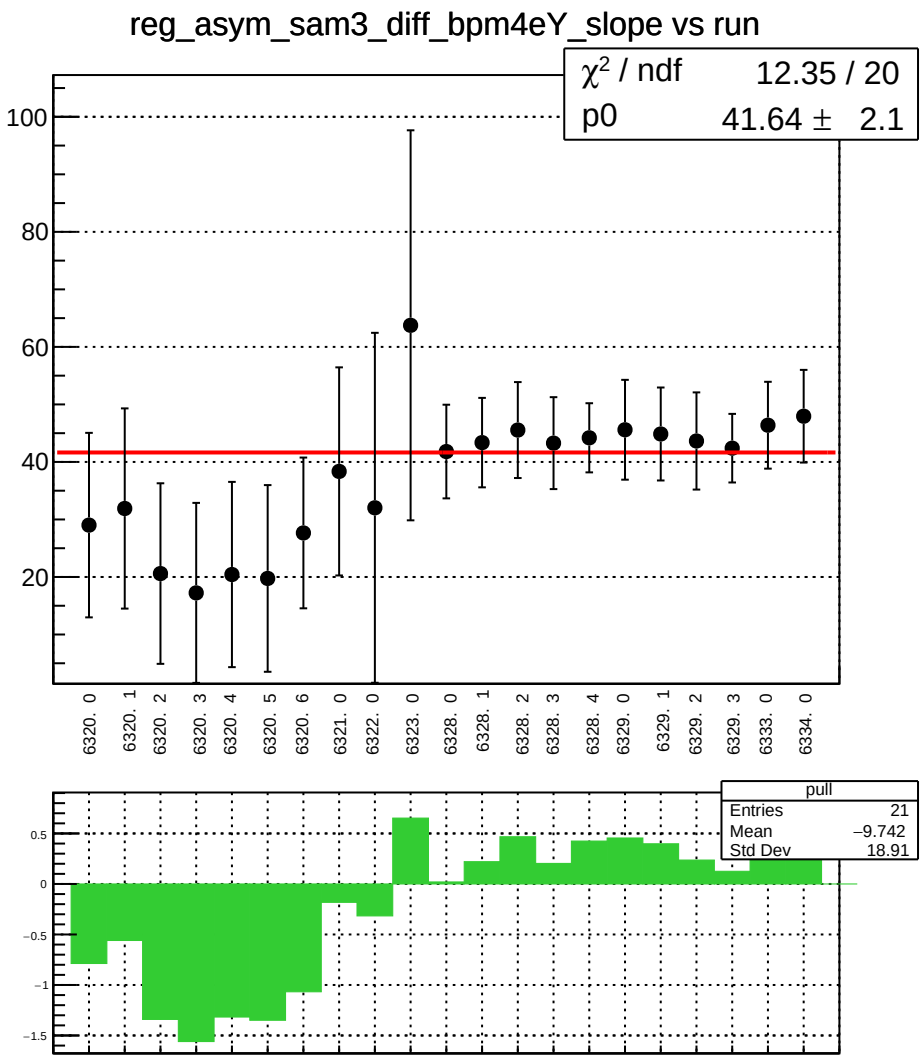

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 2.605 / 20
p0 −74.38 ± 4.096
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.26
Std Dev 28.76
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

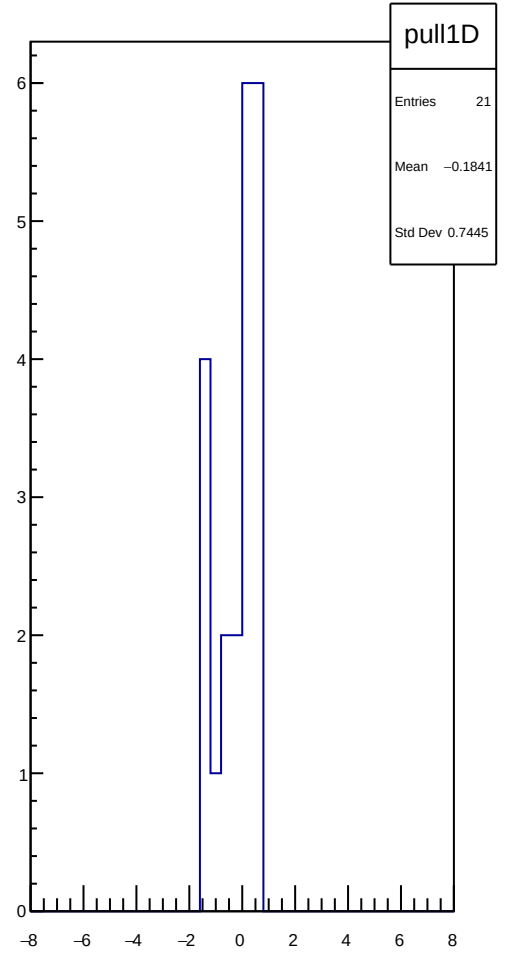

pull1D
Entries 21
Mean 0.01262
Std Dev 0.3519
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

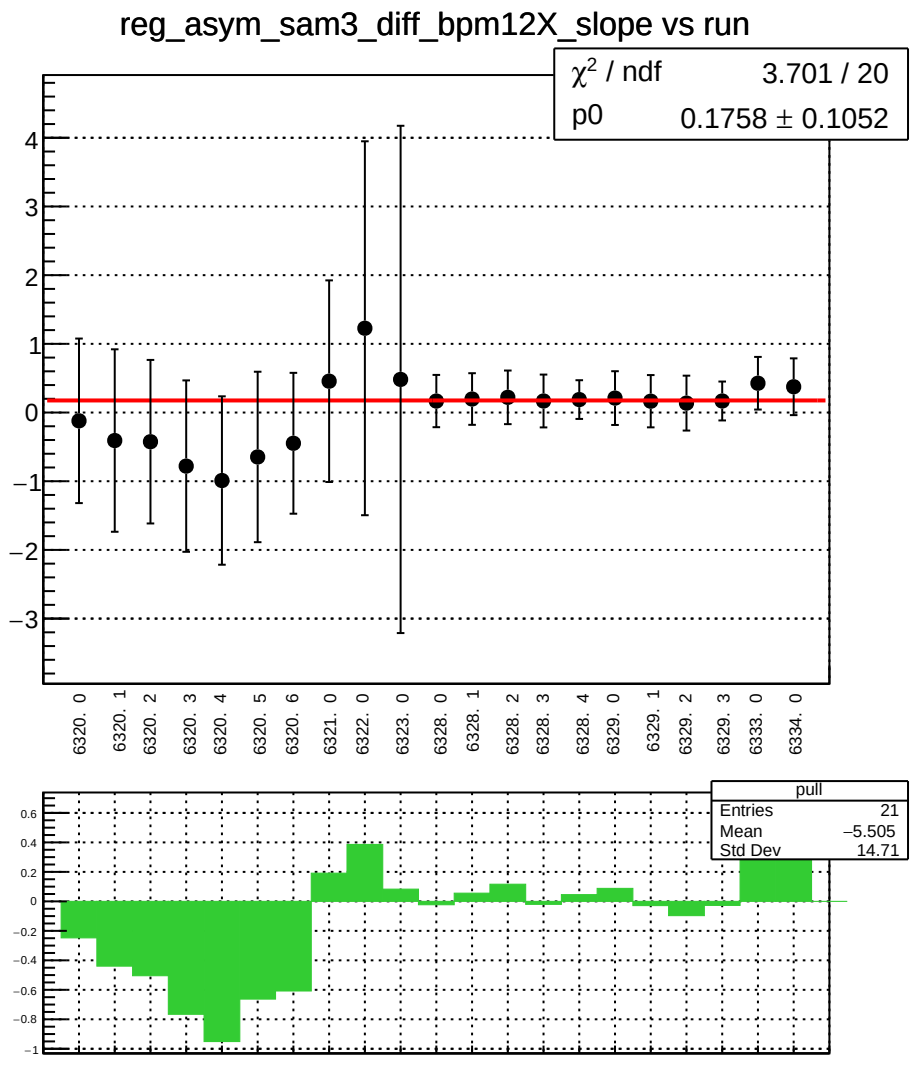

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.381 / 20
p0 −11.82 ± 1.904
30
20
10
0
−10
−20
−30
−40
−50
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.87
Std Dev 25.47
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.09298
Std Dev 0.4976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

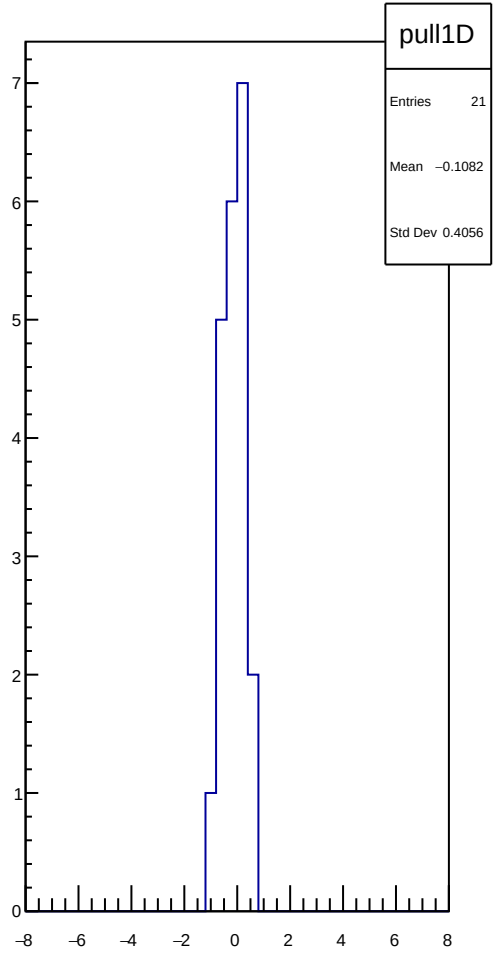

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.592 / 20
p0 −37.41 ± 4.459
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −149.7
Std Dev 159.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

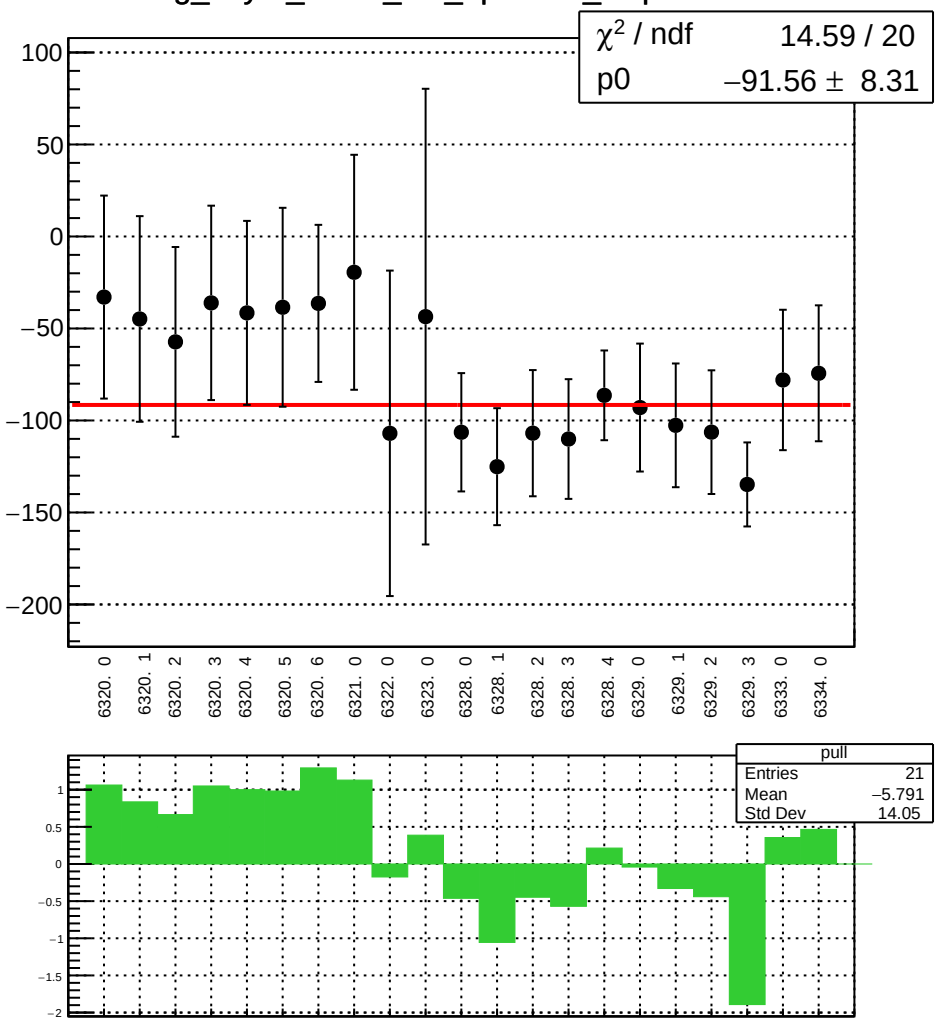

pull1D
Entries 21
Mean 0.003089
Std Dev 0.3513
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

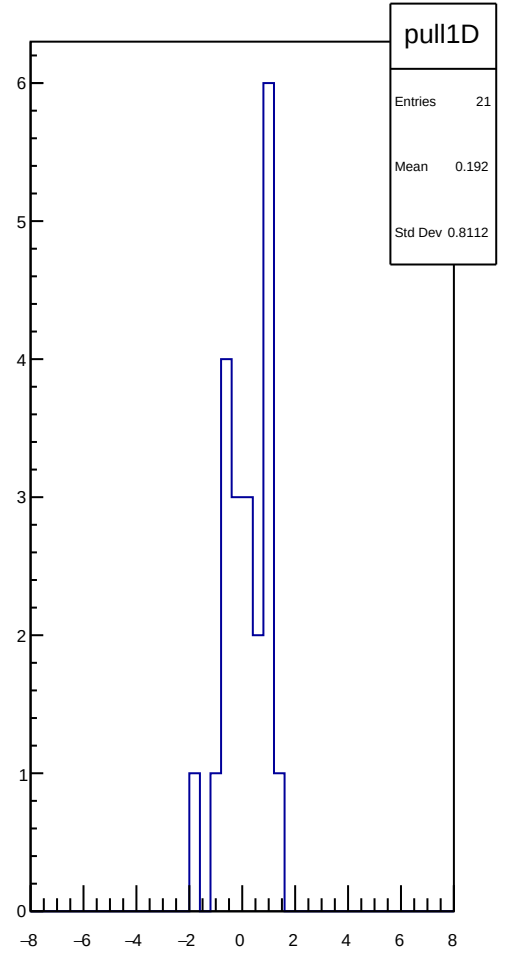

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 12.35 / 20
p0 41.64 ± 2.1
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.742
Std Dev 18.91
0.5
0
−0.5
−1
−1.5

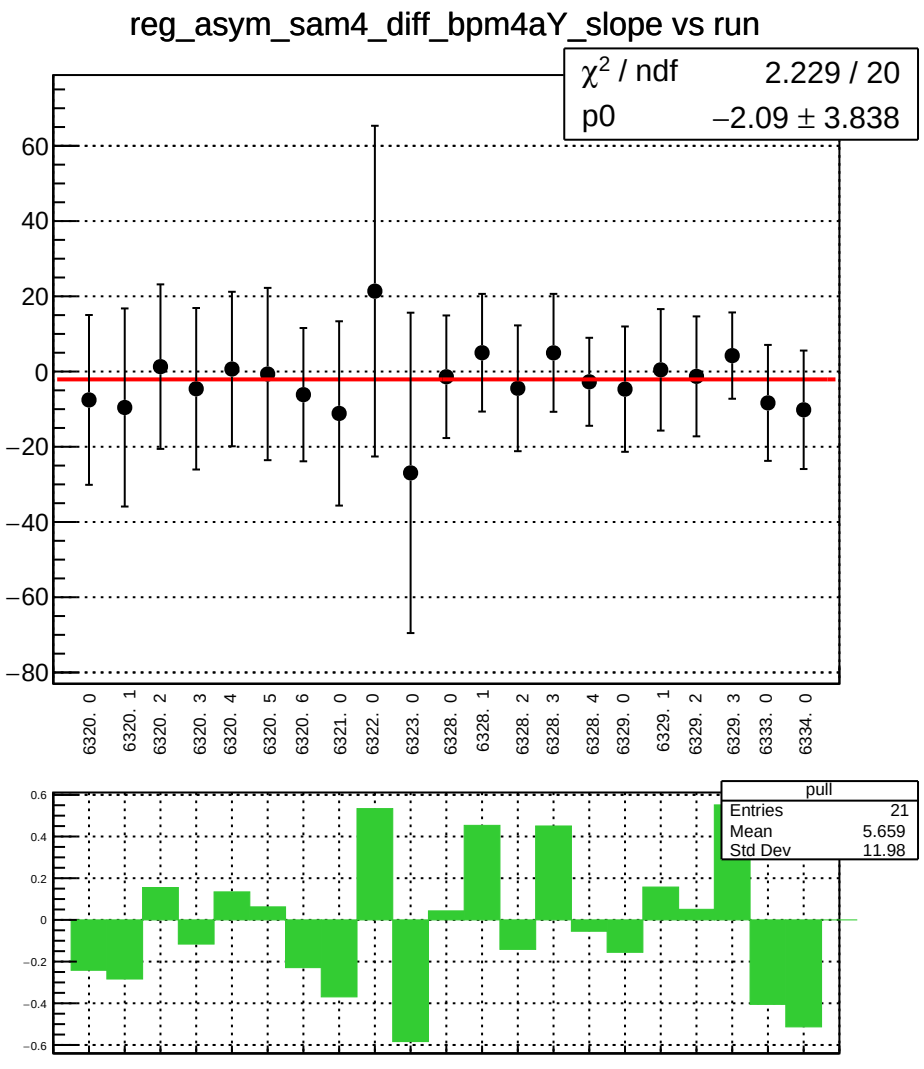

pull1D
Entries 21
Mean −0.1841
Std Dev 0.7445
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

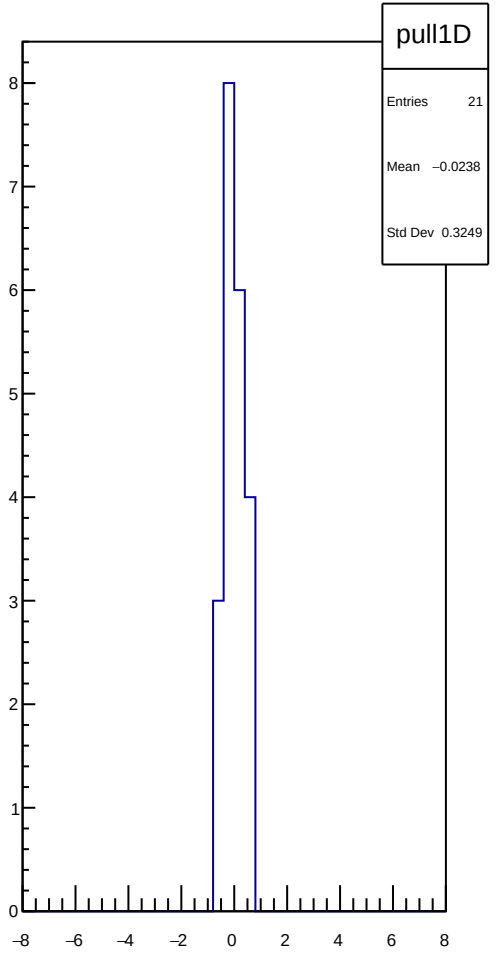

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.701 / 20
p0 0.1758 ± 0.1052
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.505
Std Dev 14.71

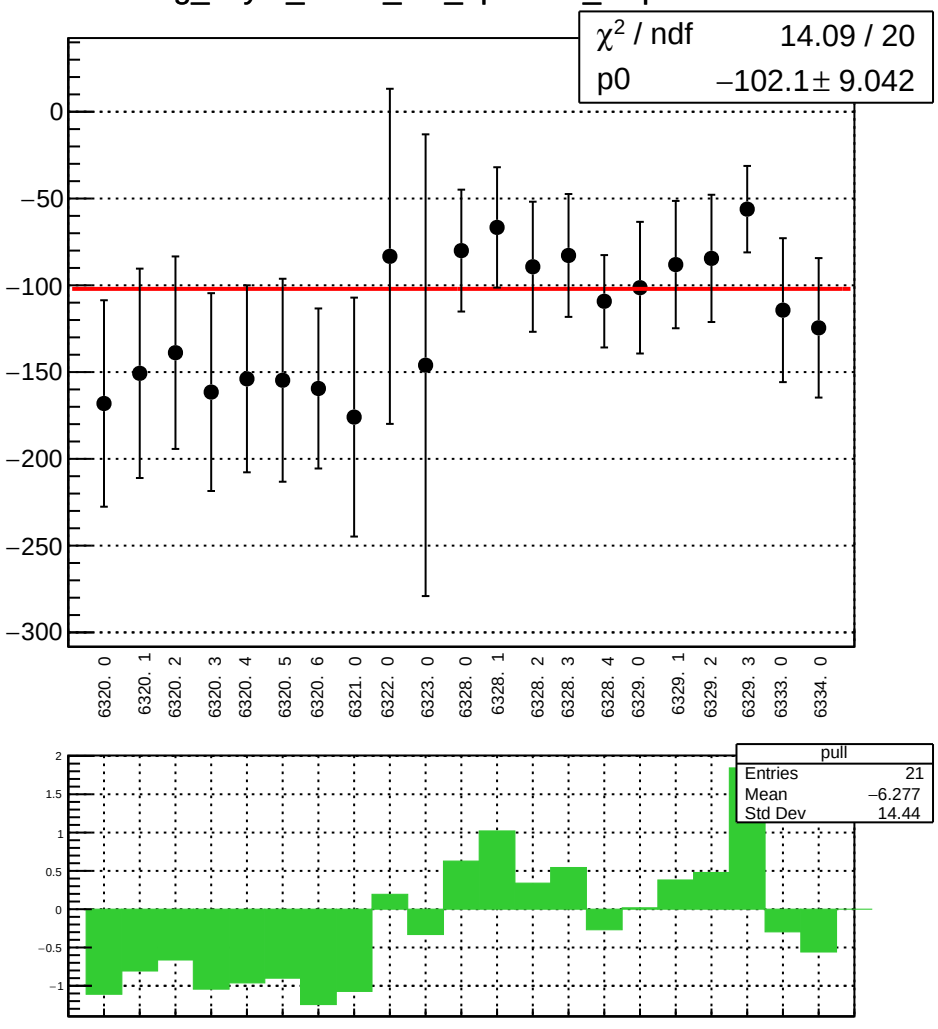

pull1D
Entries 21
Mean −0.1082
Std Dev 0.4056

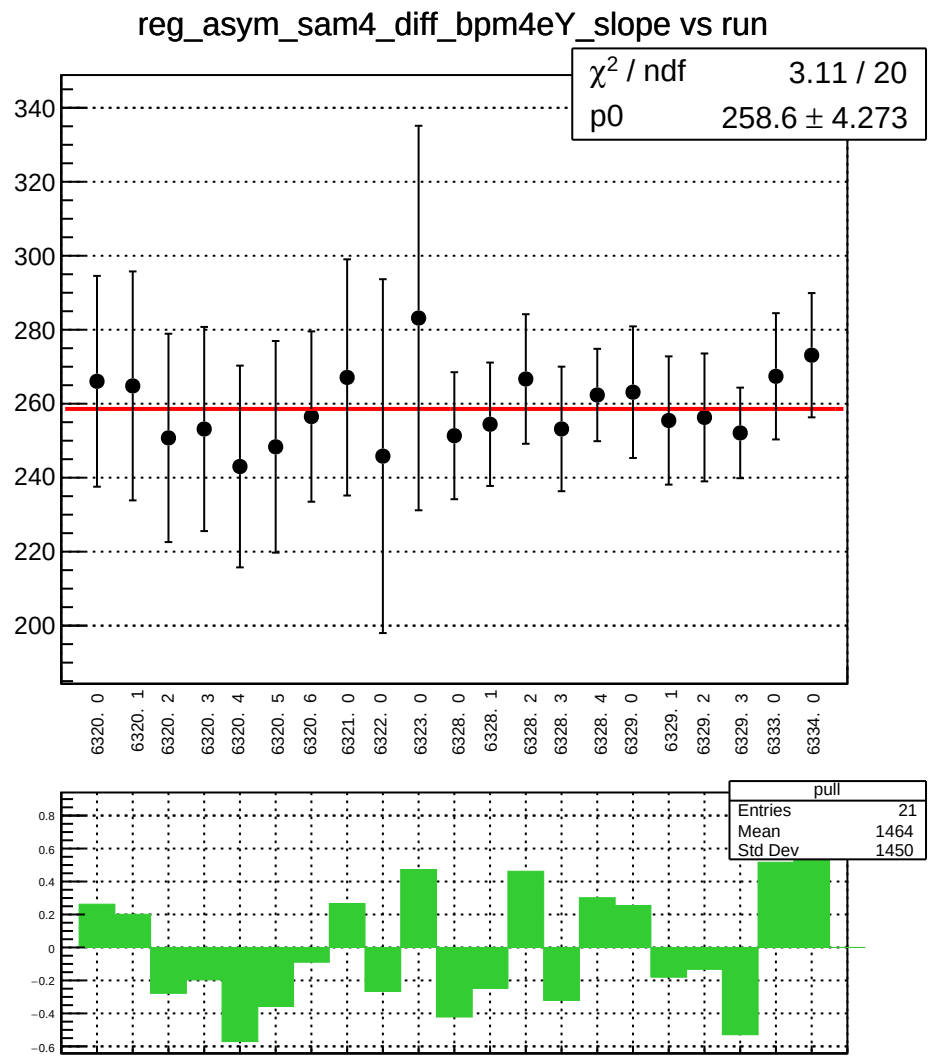

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 14.59 / 20
p0 −91.56 ± 8.31
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.791
Std Dev 14.05
1
0.5
0
−0.5
−1
−1.5
−2

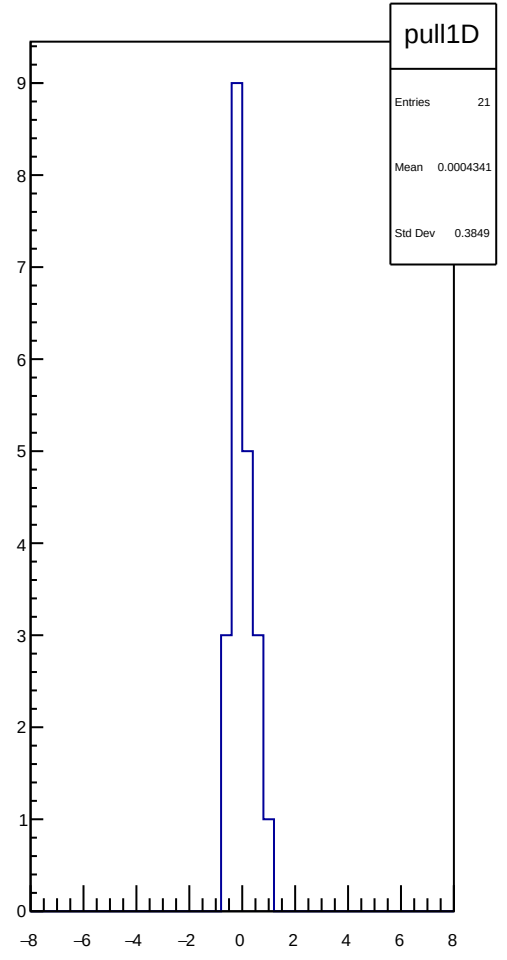

pull1D
Entries 21
Mean 0.192
Std Dev 0.8112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

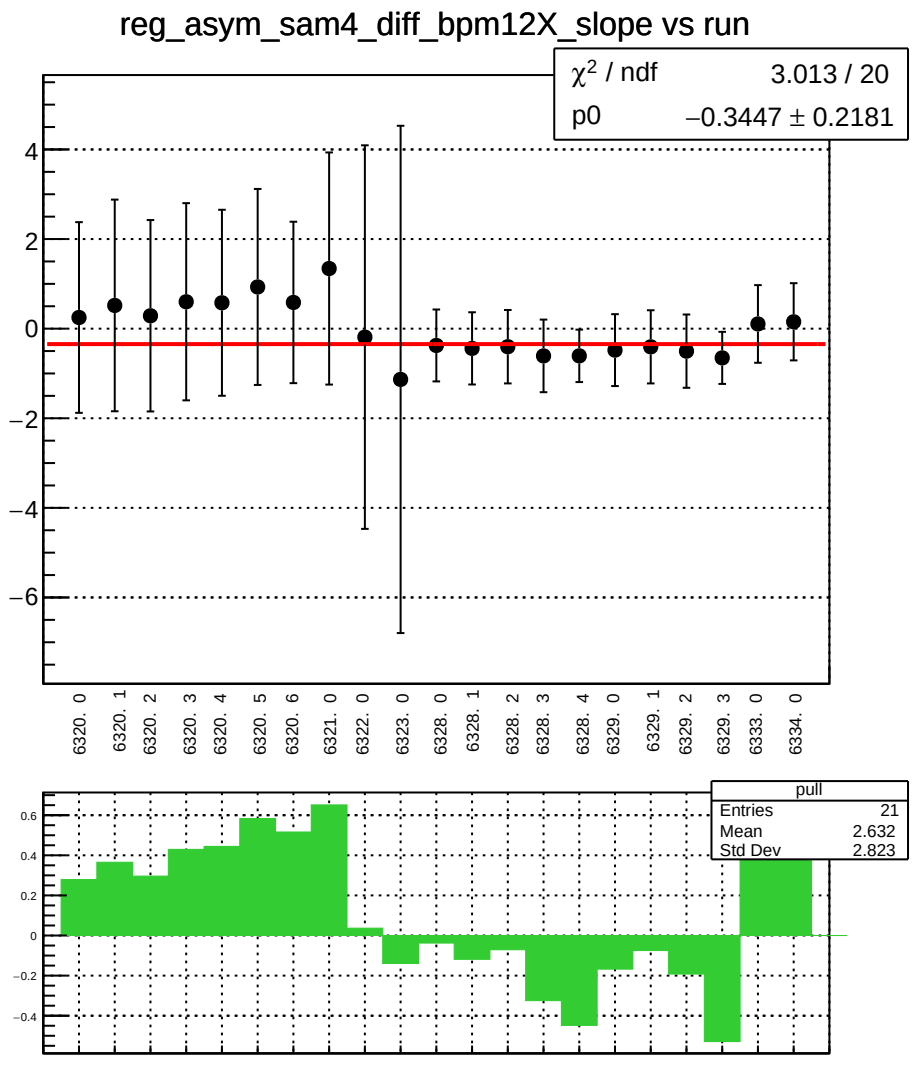

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.229 / 20
p0 −2.09 ± 3.838
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.659
Std Dev 11.98
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

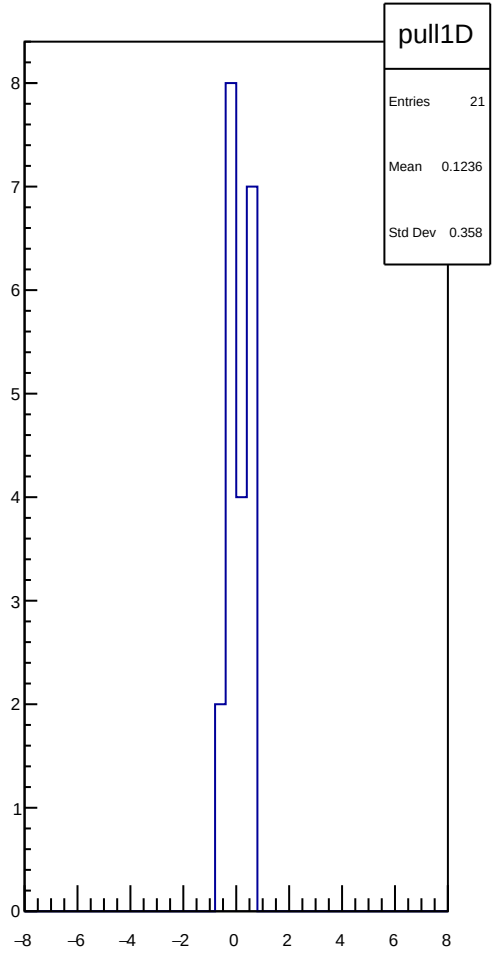

pull1D
Entries 21
Mean −0.0238
Std Dev 0.3249
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

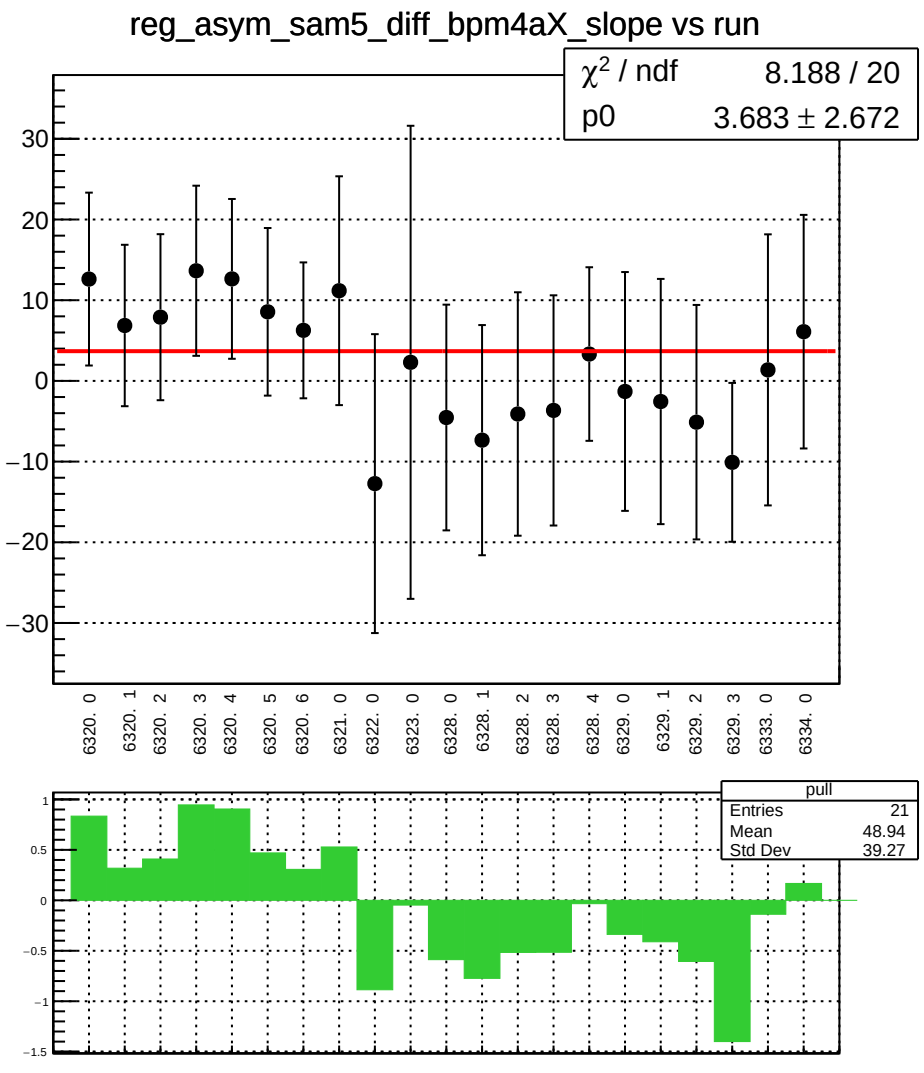

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 14.09 / 20
p0 −102.1± 9.042
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.277
Std Dev 14.44
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1813
Std Dev 0.7989
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

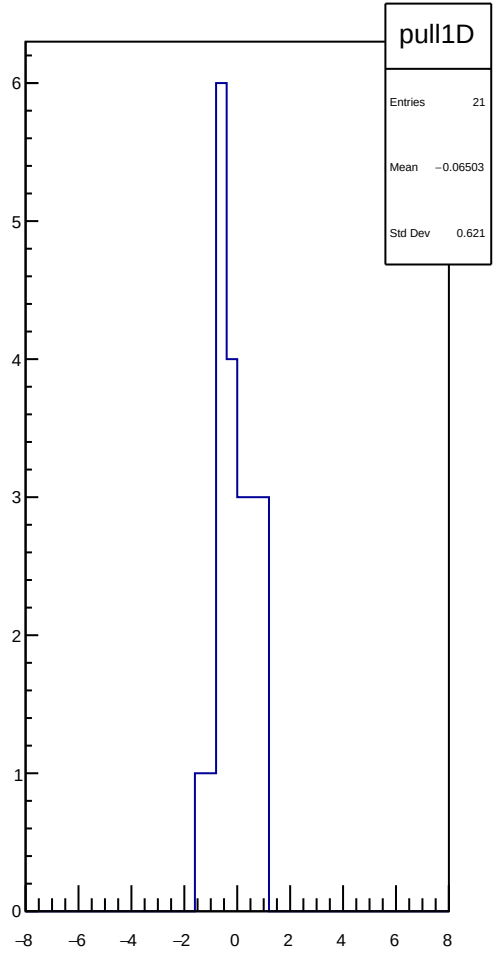

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.11 / 20
p0 258.6 ± 4.273
340
320
300
280
260
240
220
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1464
Std Dev 1450
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

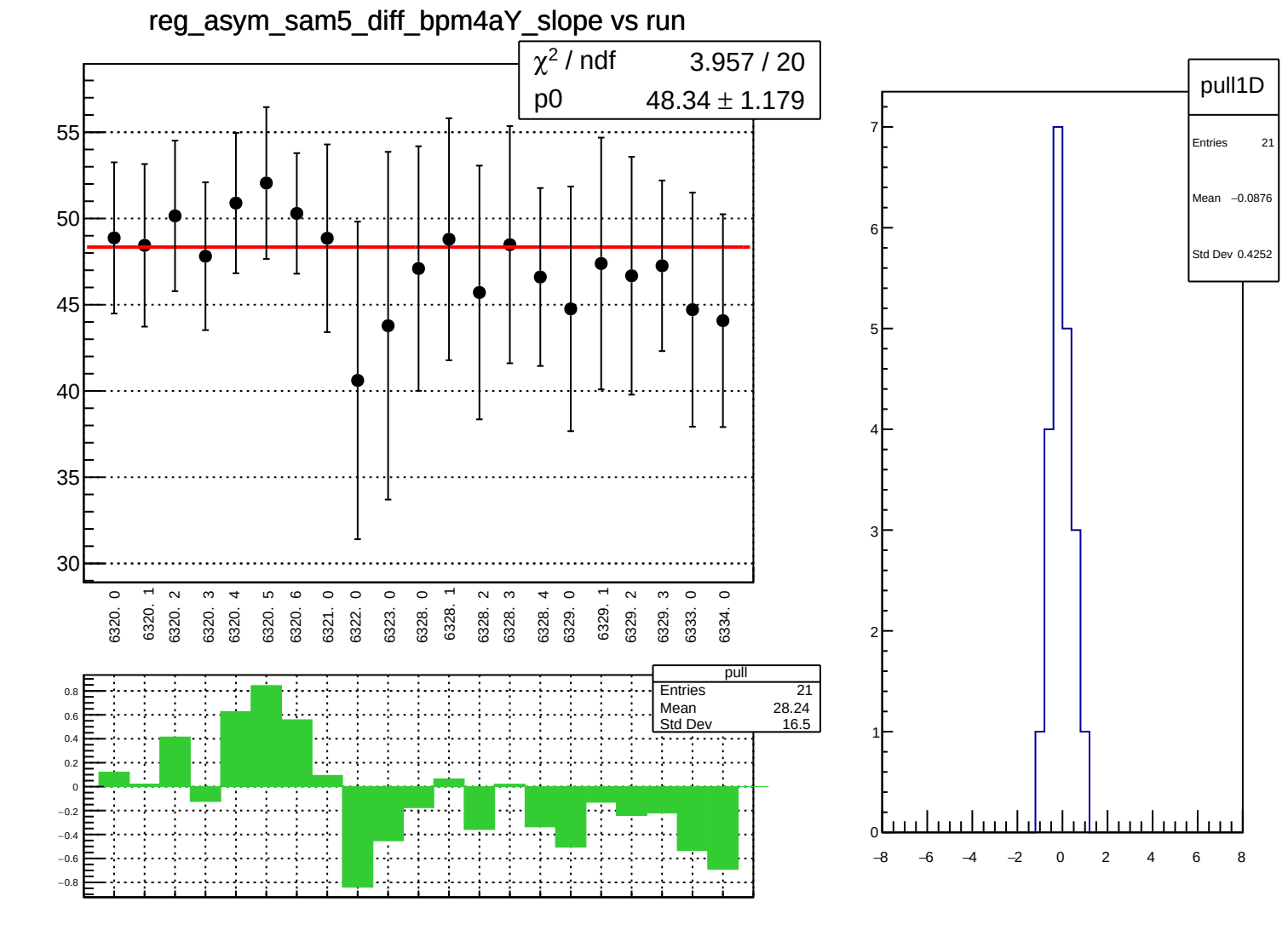

pull1D
Entries 21
Mean 0.0004341
Std Dev 0.3849
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

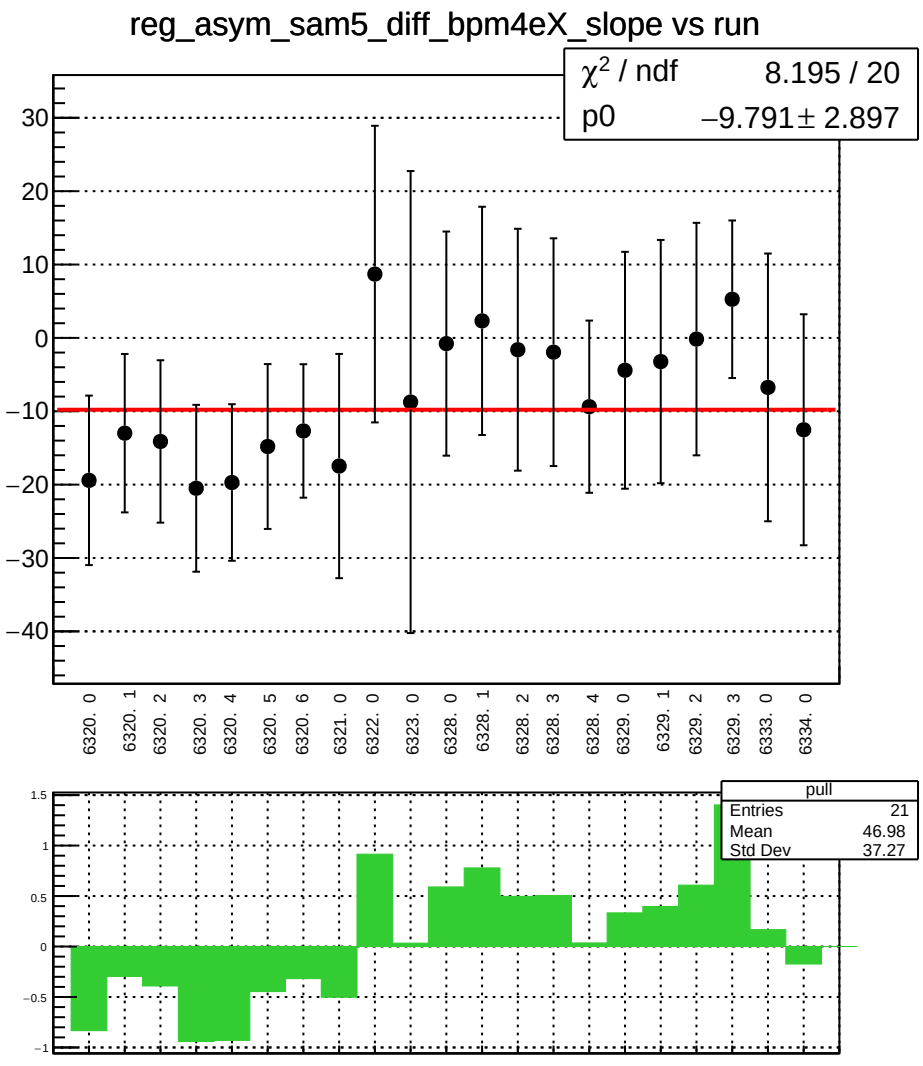

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.013 / 20
p0 −0.3447 ± 0.2181
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2.632
Std Dev 2.823
0.6
0.4
0.2
0
−0.2
−0.4

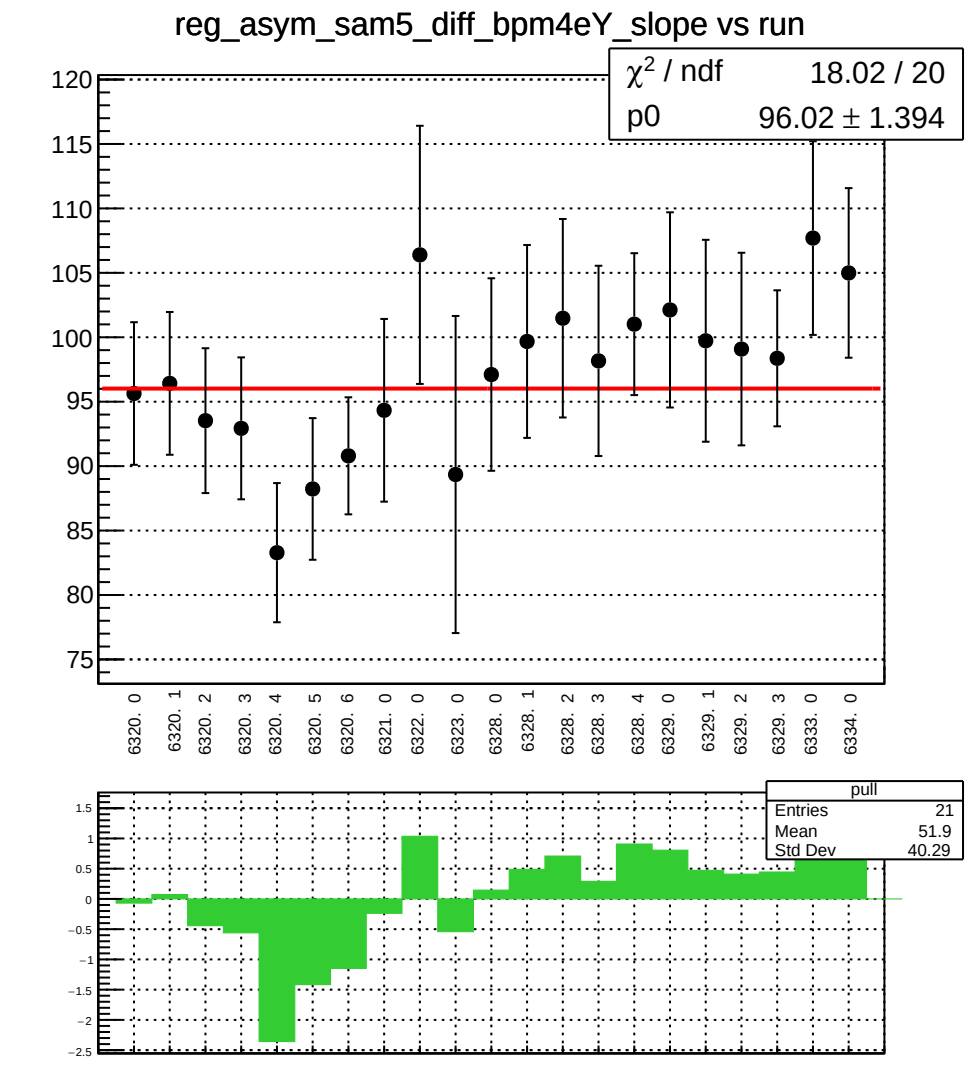

pull1D
Entries 21
Mean 0.1236
Std Dev 0.358
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

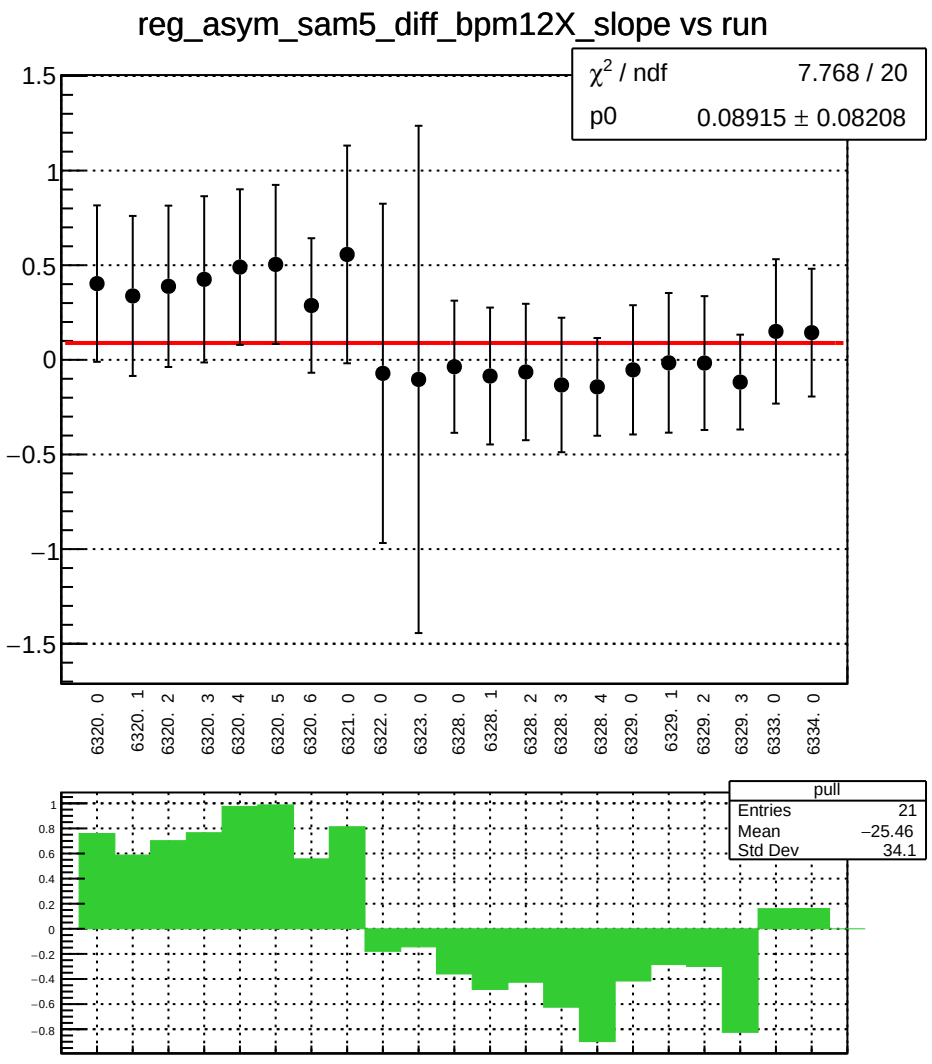

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 8.188 / 20
p0 3.683 ± 2.672
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 48.94
Std Dev 39.27
1
0.5
0
−0.5
−1
−1.5

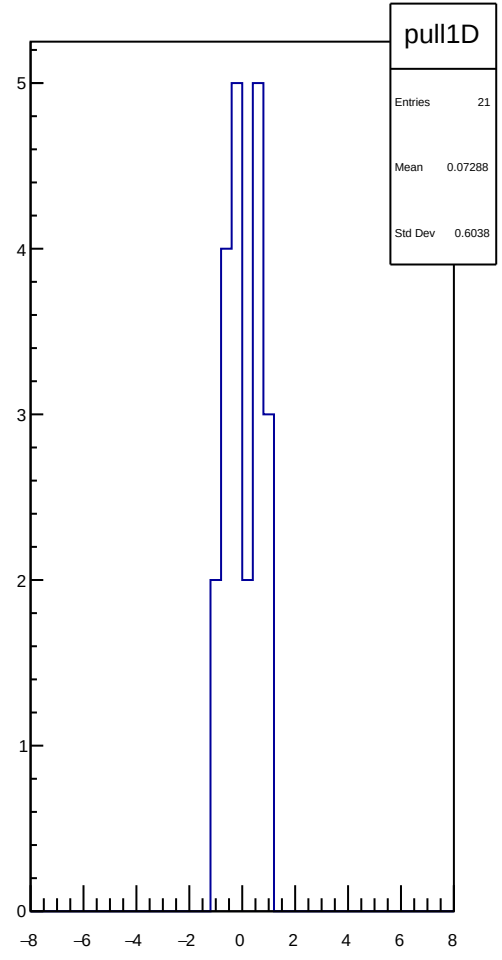

pull1D
Entries 21
Mean −0.06503
Std Dev 0.621
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

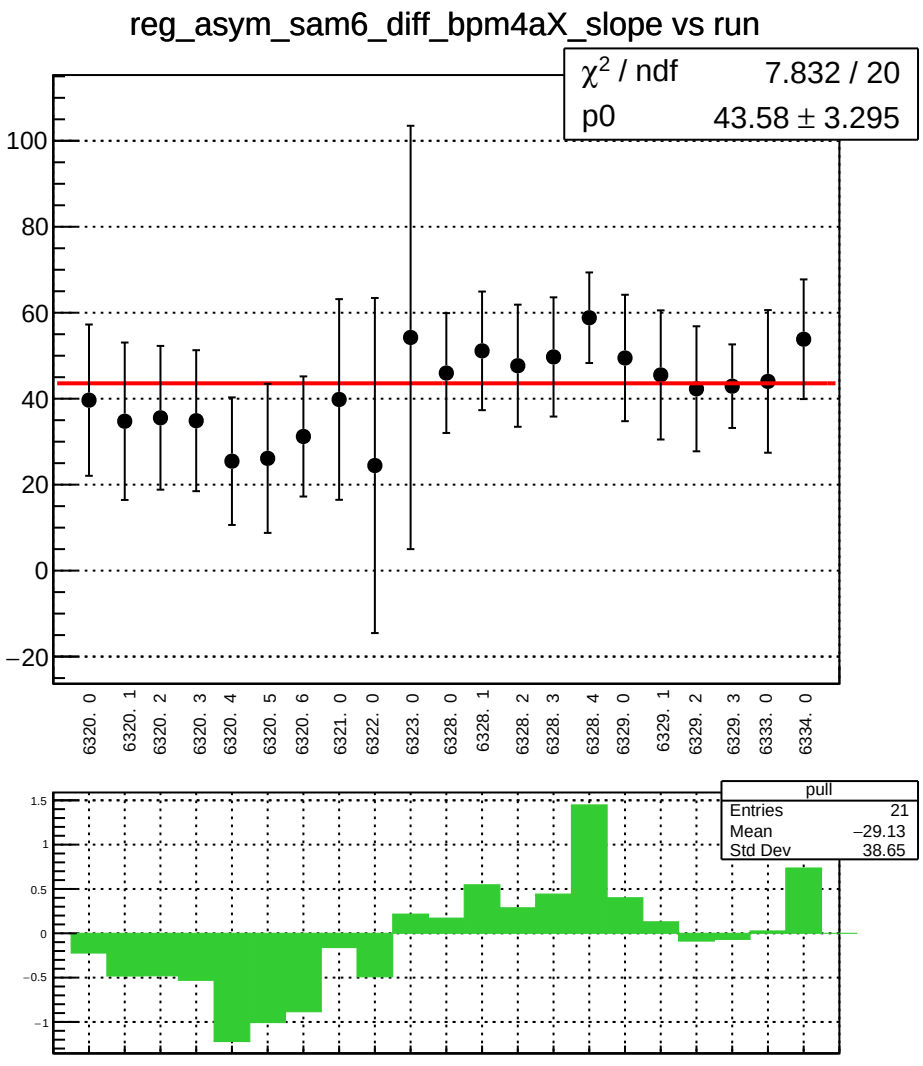

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.957 / 20
p0 48.34 ± 1.179
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.24
Std Dev 16.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.0876
Std Dev 0.4252
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

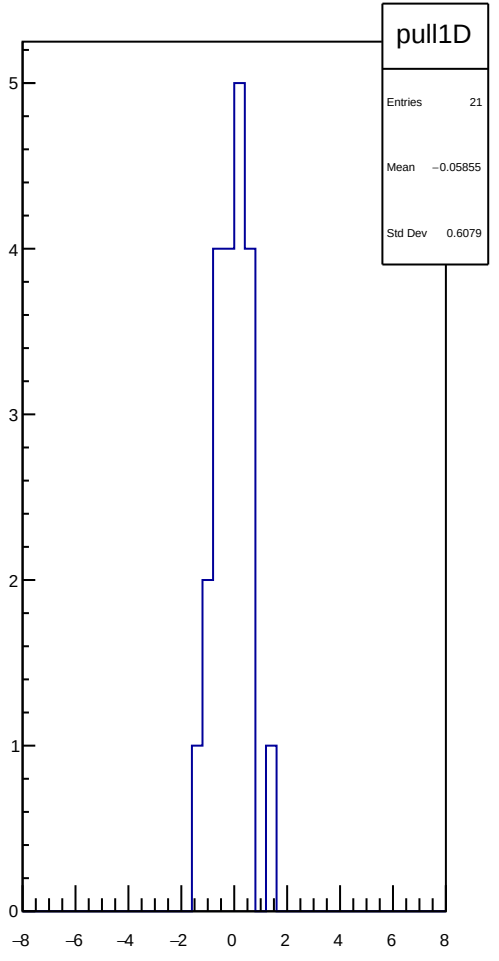

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 8.195 / 20
p0 −9.791 ± 2.897
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.98
Std Dev 37.27
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.06807
Std Dev 0.621
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

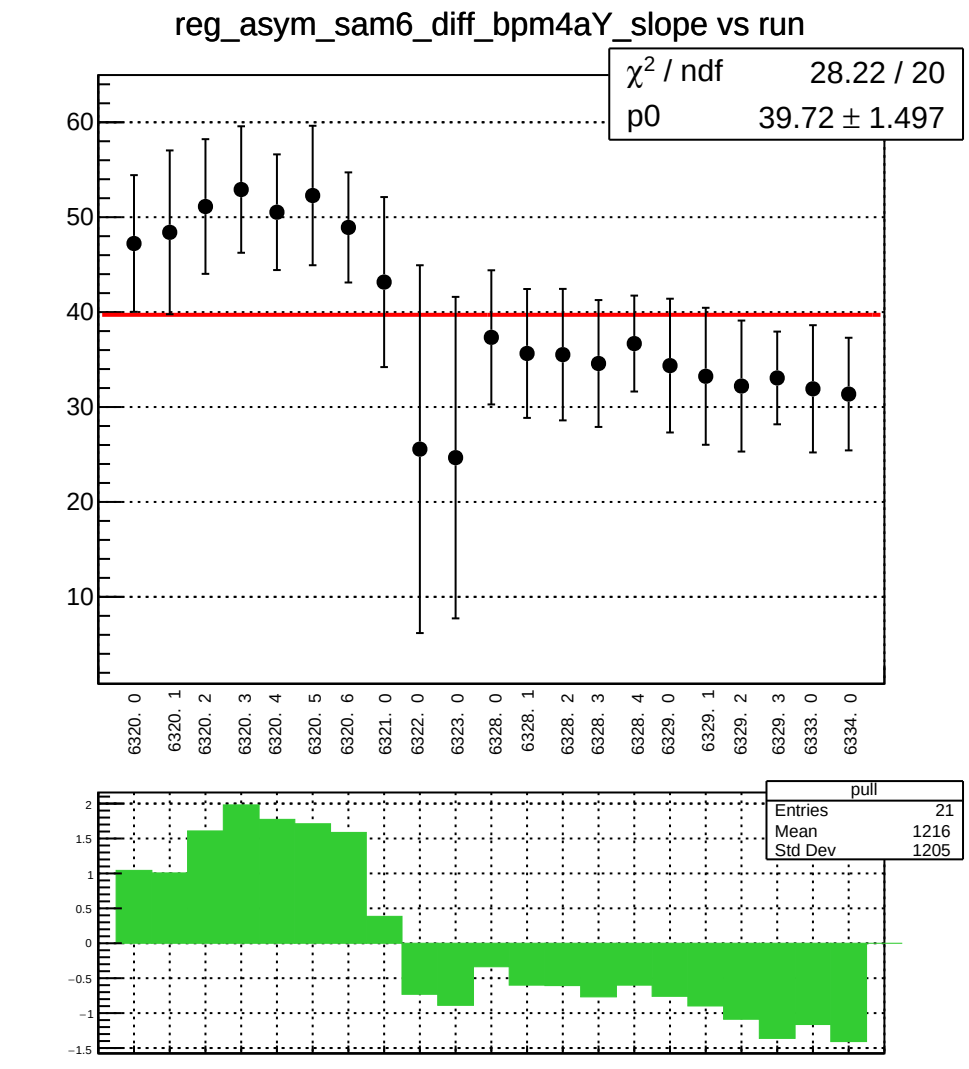

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 18.02 / 20
p0 96.02 ± 1.394
120
115
110
105
100
95
90
85
80
75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 51.9
Std Dev 40.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean 0.09186
Std Dev 0.9218
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

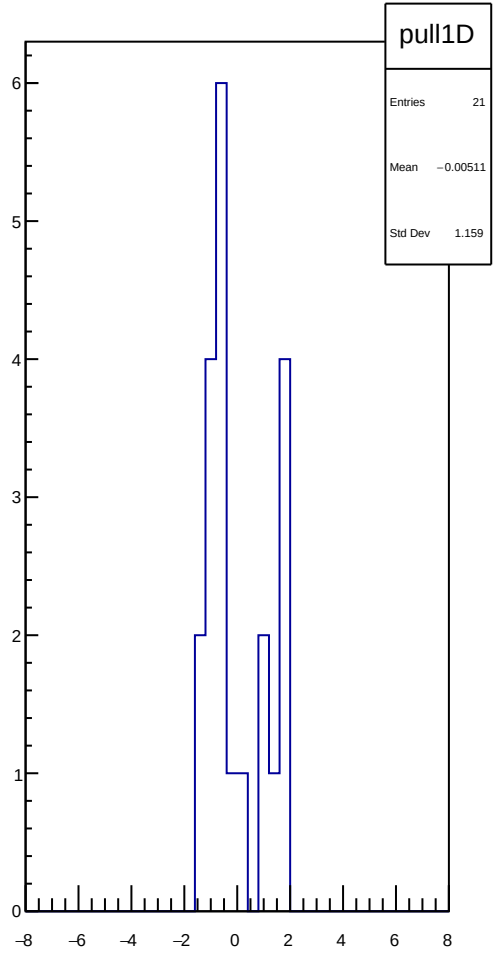

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 7.768 / 20
p0 0.08915 ± 0.08208
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.46
Std Dev 34.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

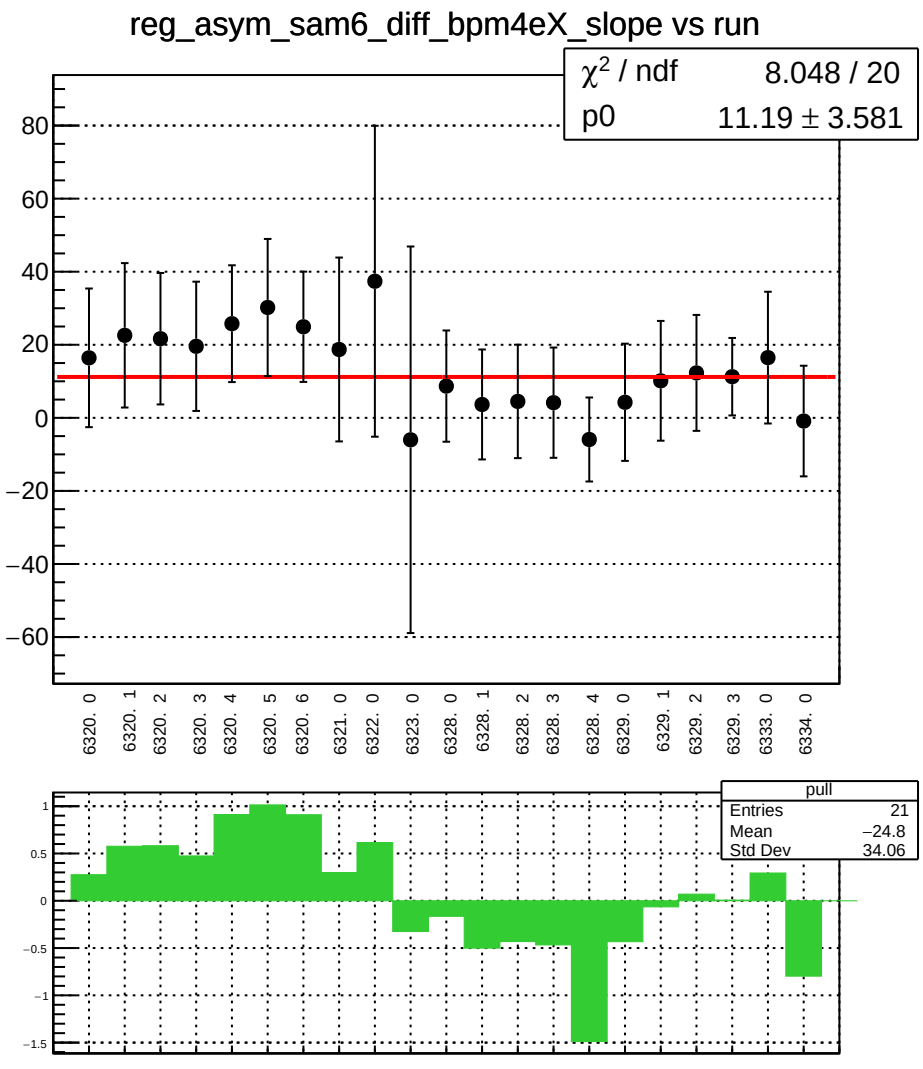

pull1D
Entries 21
Mean 0.07288
Std Dev 0.6038
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

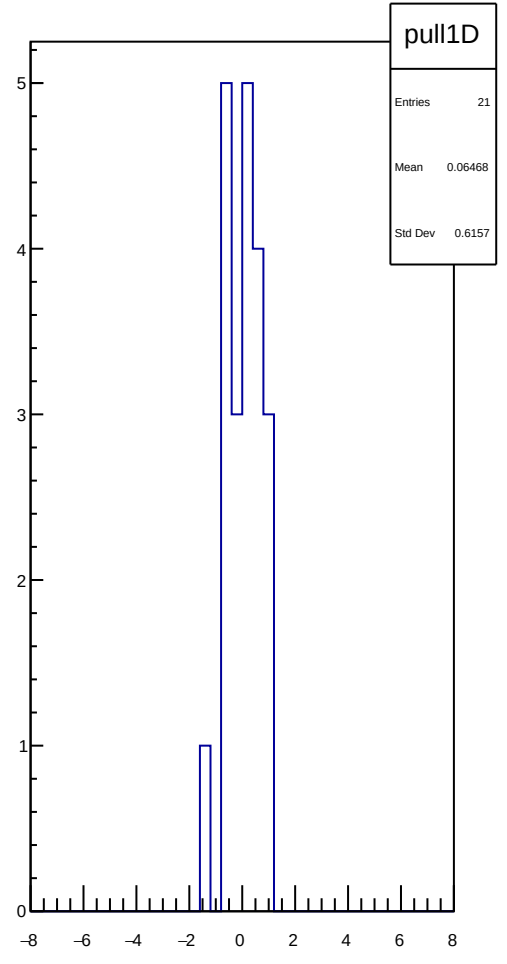

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 7.832 / 20
p0 43.58 ± 3.295
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.13
Std Dev 38.65
1.5
1
0.5
0
−0.5
−1

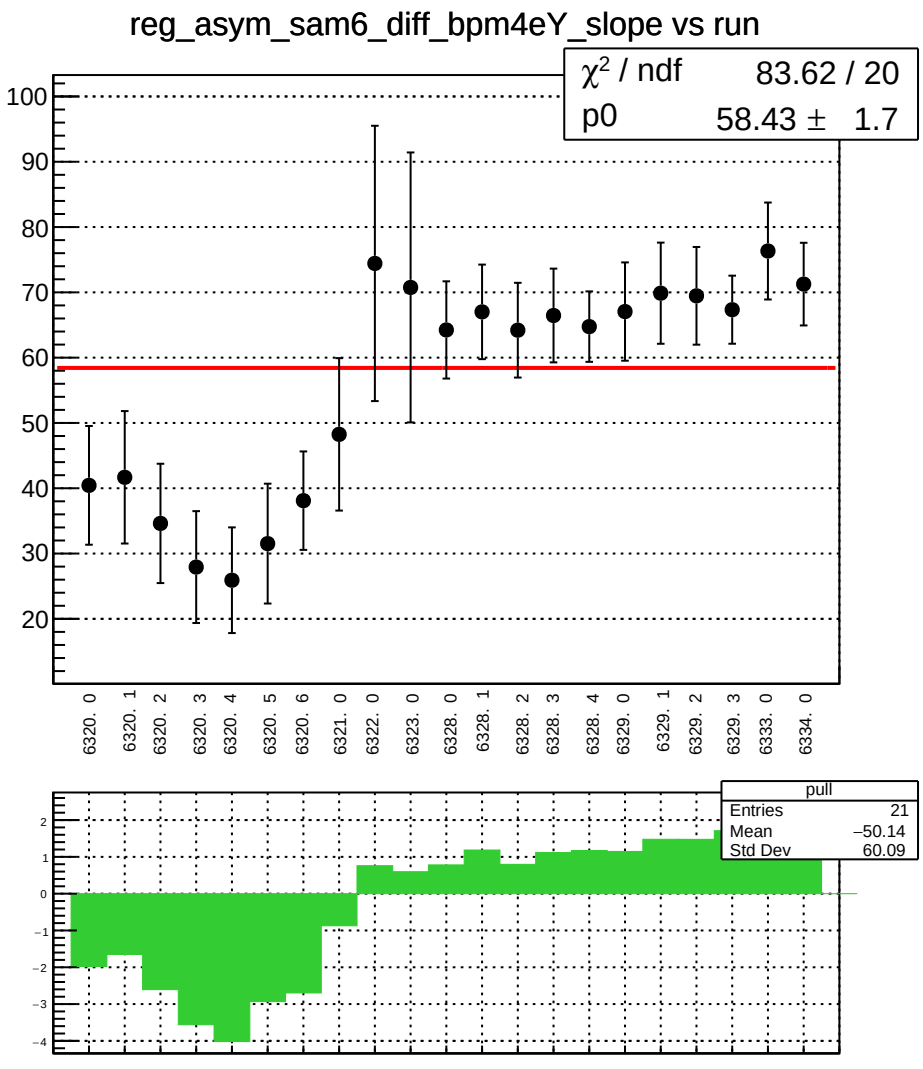

pull1D
Entries 21
Mean −0.05855
Std Dev 0.6079
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

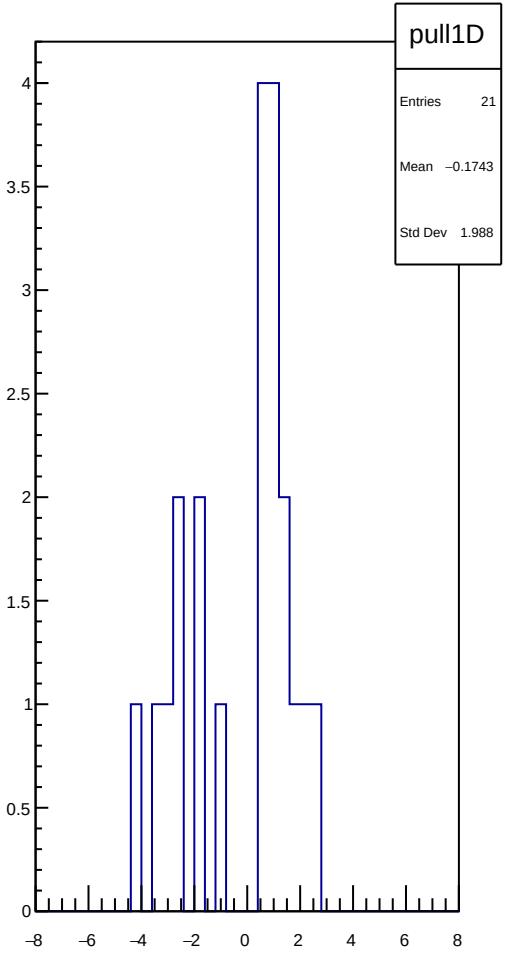

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 28.22 / 20
p0 39.72 ± 1.497
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1216
Std Dev 1205
2
1.5
1
0.5
0
−0.5
−1
−1.5

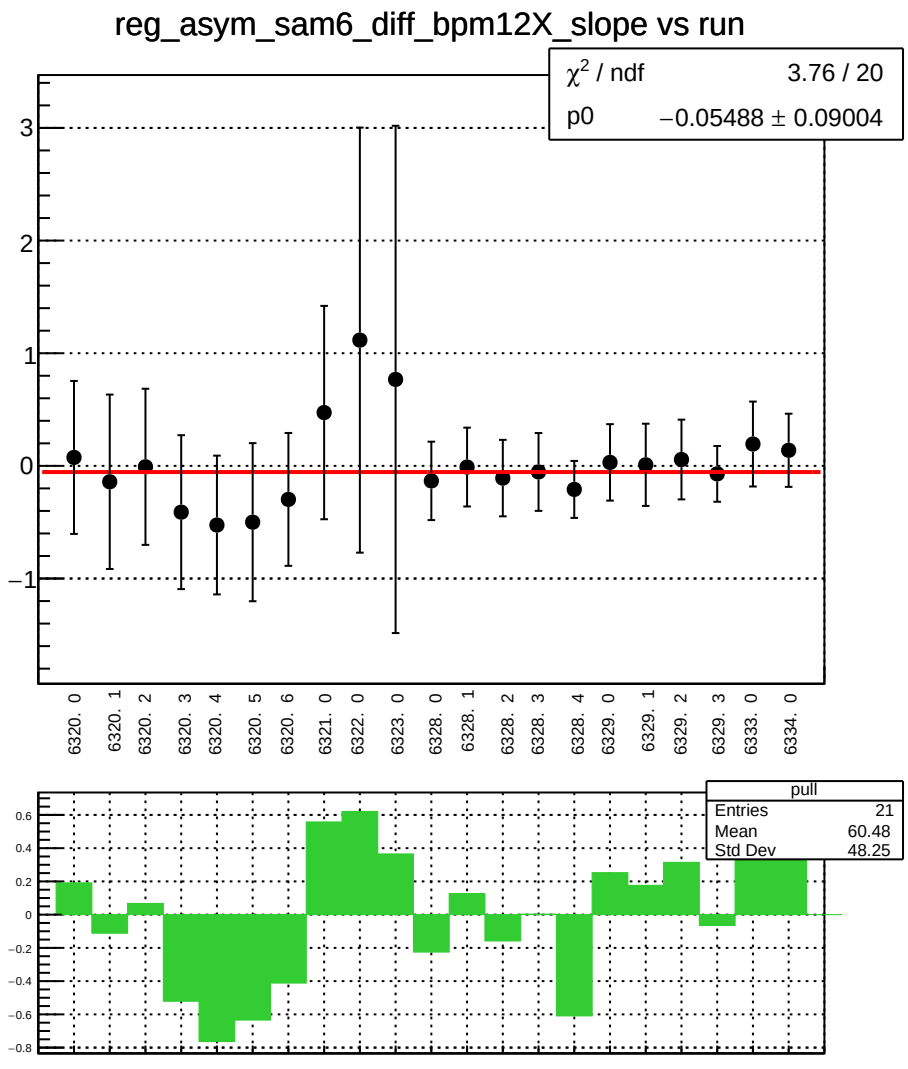

pull1D
Entries 21
Mean −0.00511
Std Dev 1.159
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

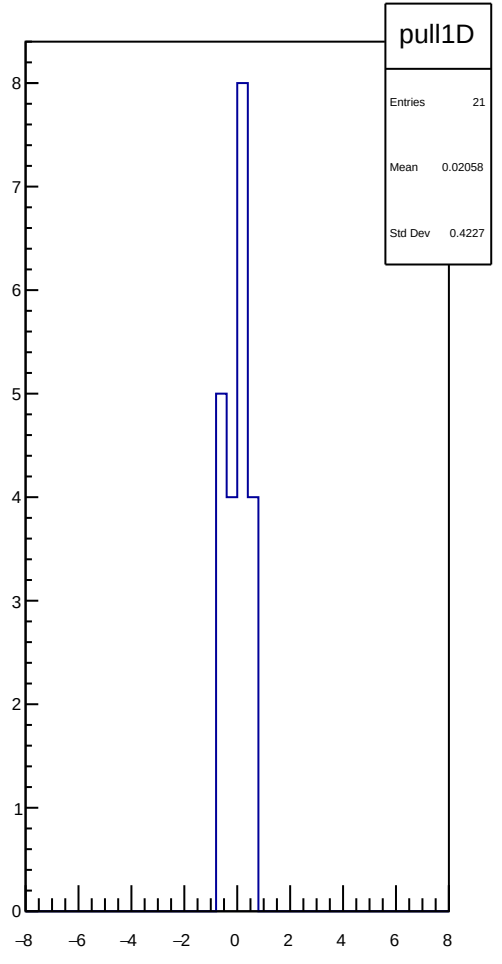

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.048 / 20
p0 11.19 ± 3.581
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −24.8
Std Dev 34.06
1
0.5
0
−0.5
−1
−1.5

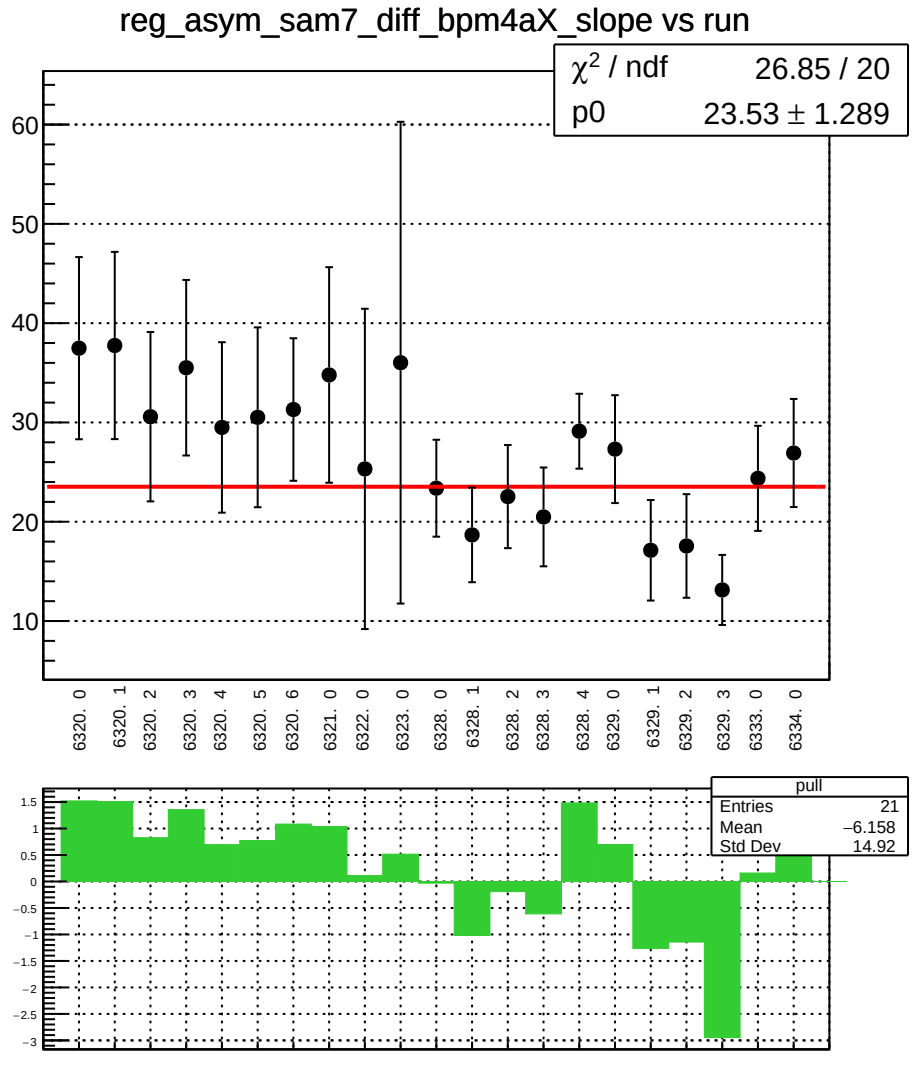

pull1D
Entries 21
Mean 0.06468
Std Dev 0.6157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

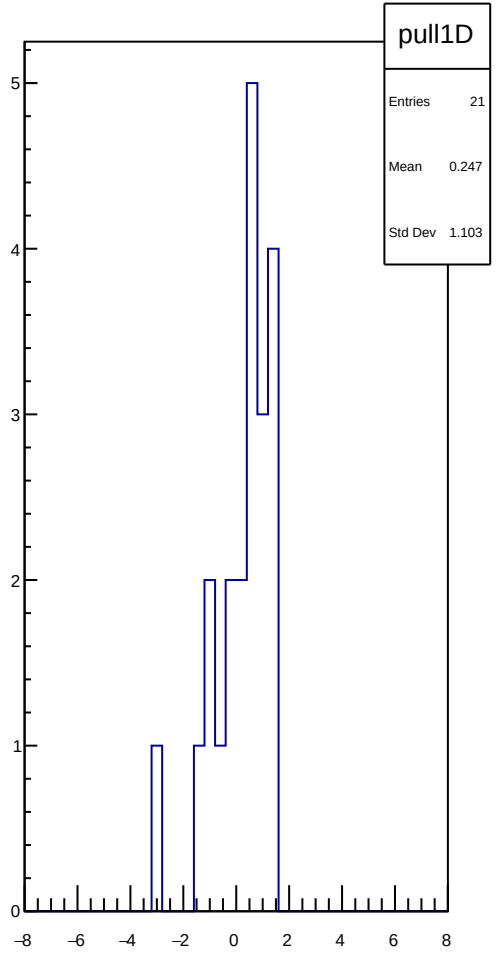

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 83.62 / 20
p0 58.43 ± 1.7
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −50.14
Std Dev 60.09
2
1
0
−1
−2
−3
−4

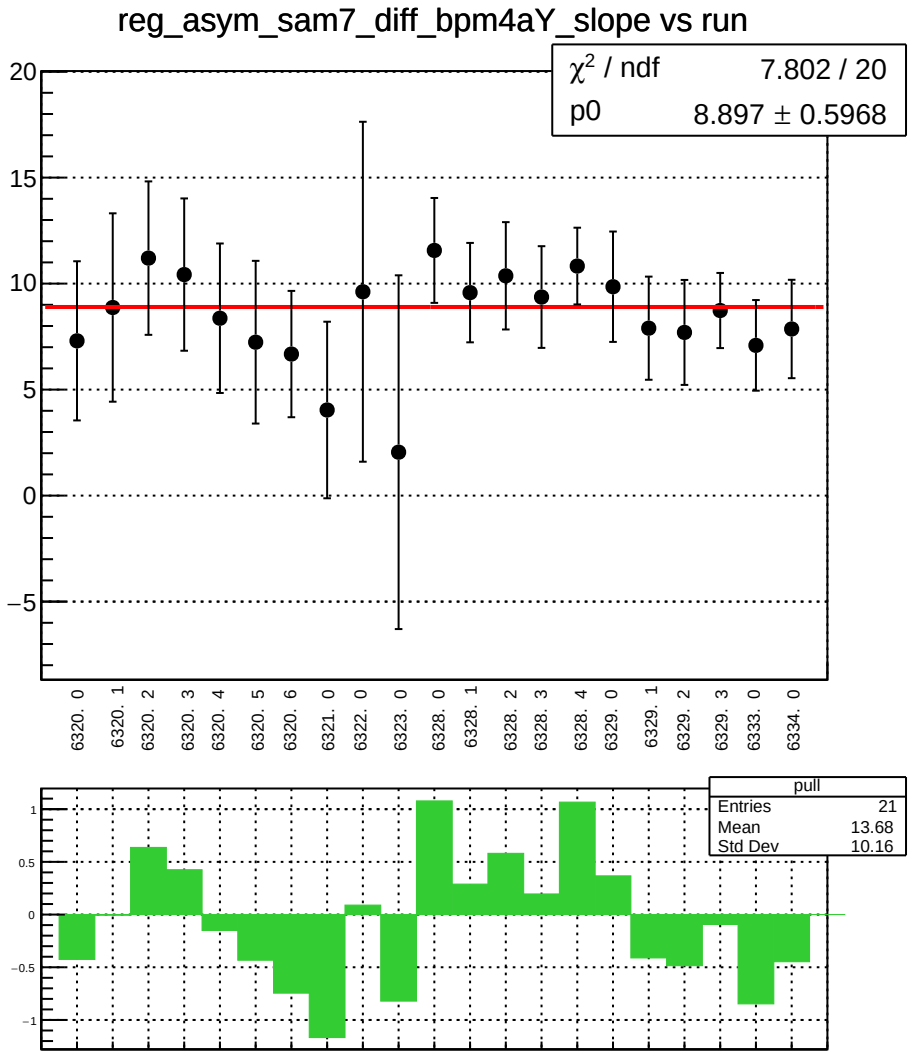

pull1D
Entries 21
Mean −0.1743
Std Dev 1.988
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

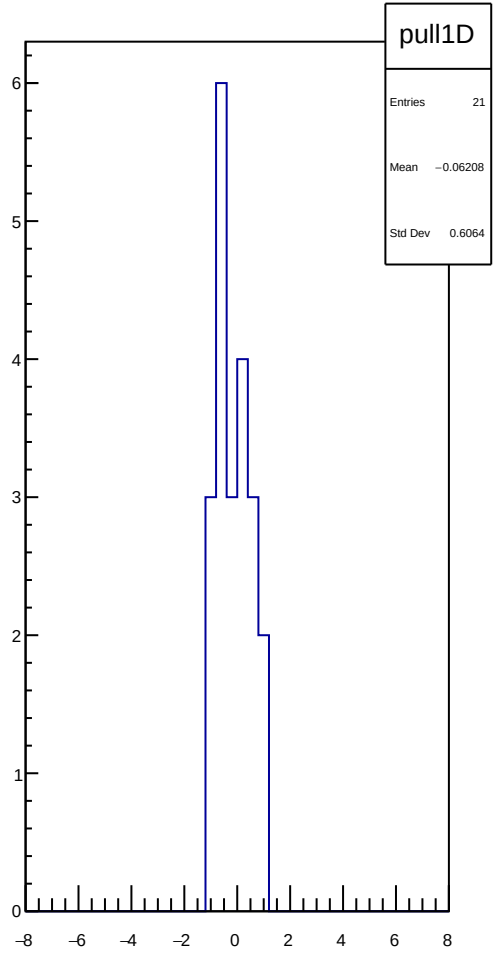

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 3.76 / 20
p0 −0.05488 ± 0.09004
3
2
1
0
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 60.48
Std Dev 48.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

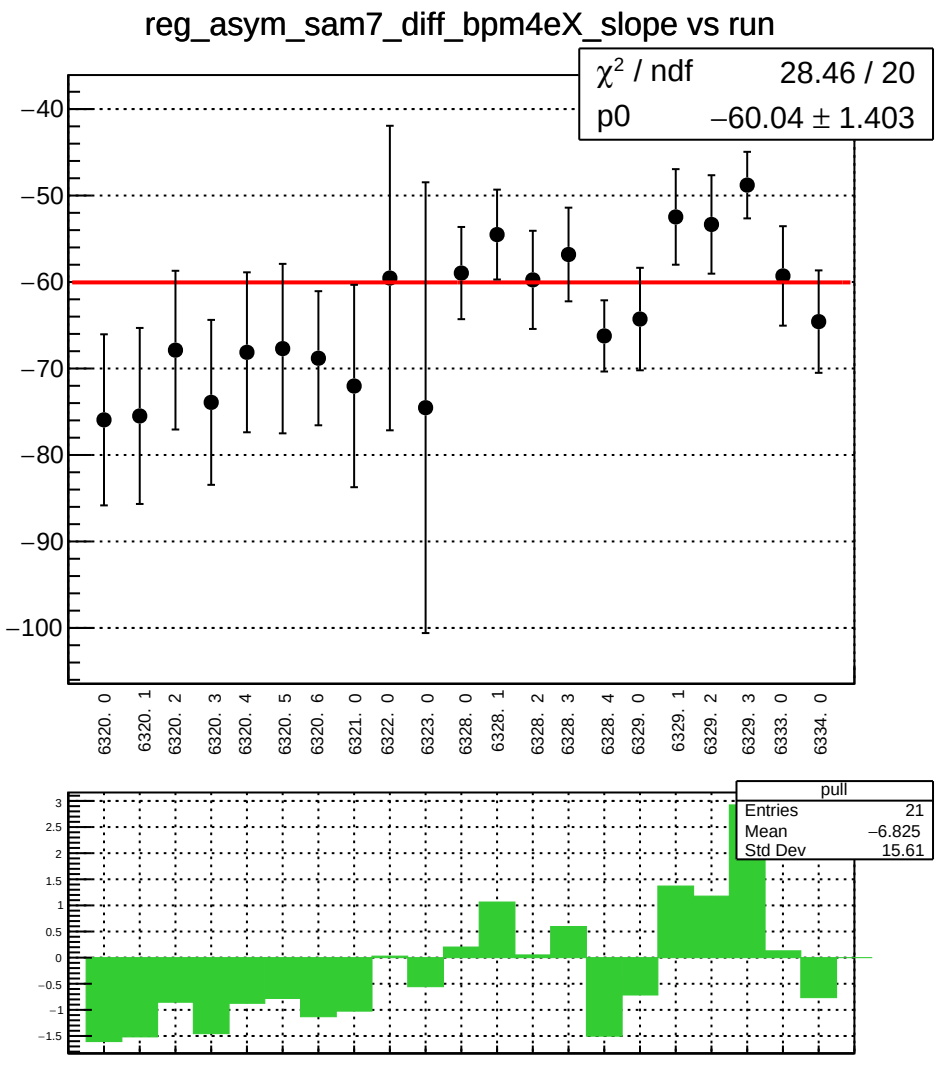

pull1D
Entries 21
Mean 0.02058
Std Dev 0.4227
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

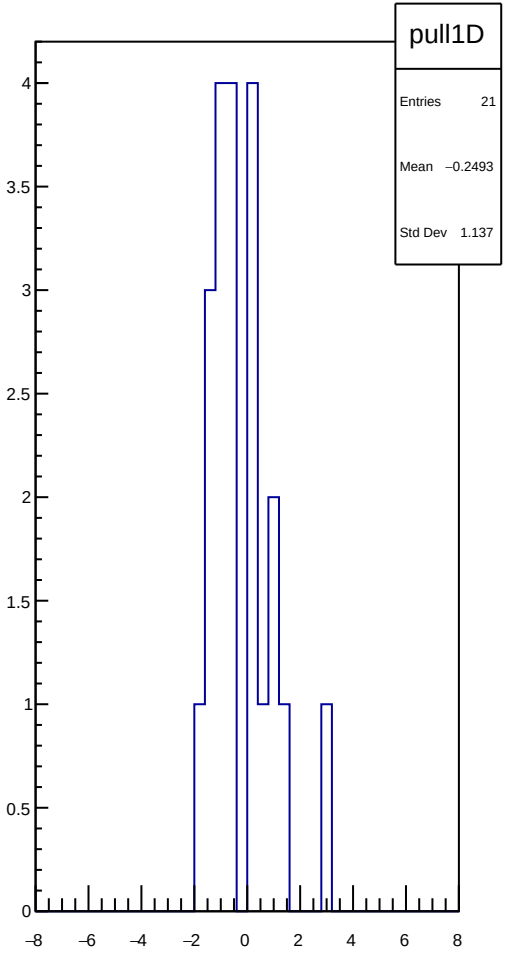

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 26.85 / 20
p0 23.53 ± 1.289
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.158
Std Dev 14.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

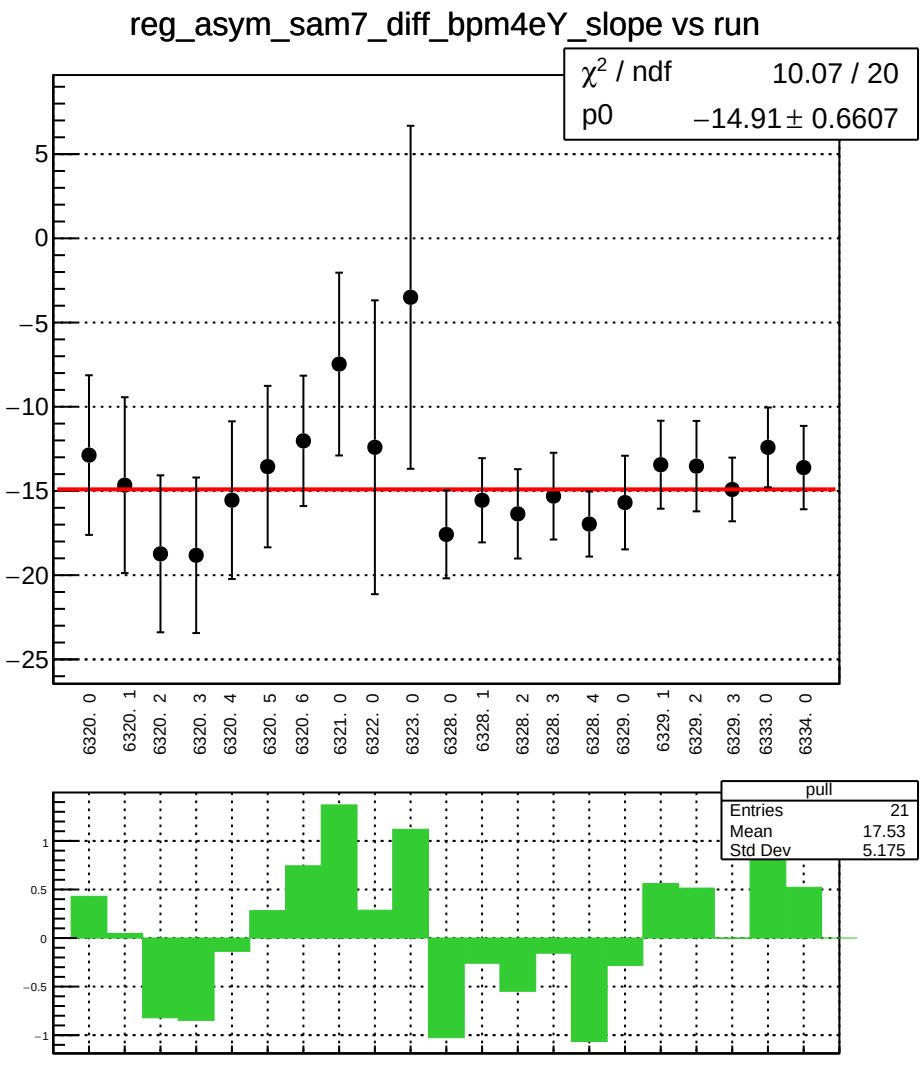

pull1D
Entries 21
Mean 0.247
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

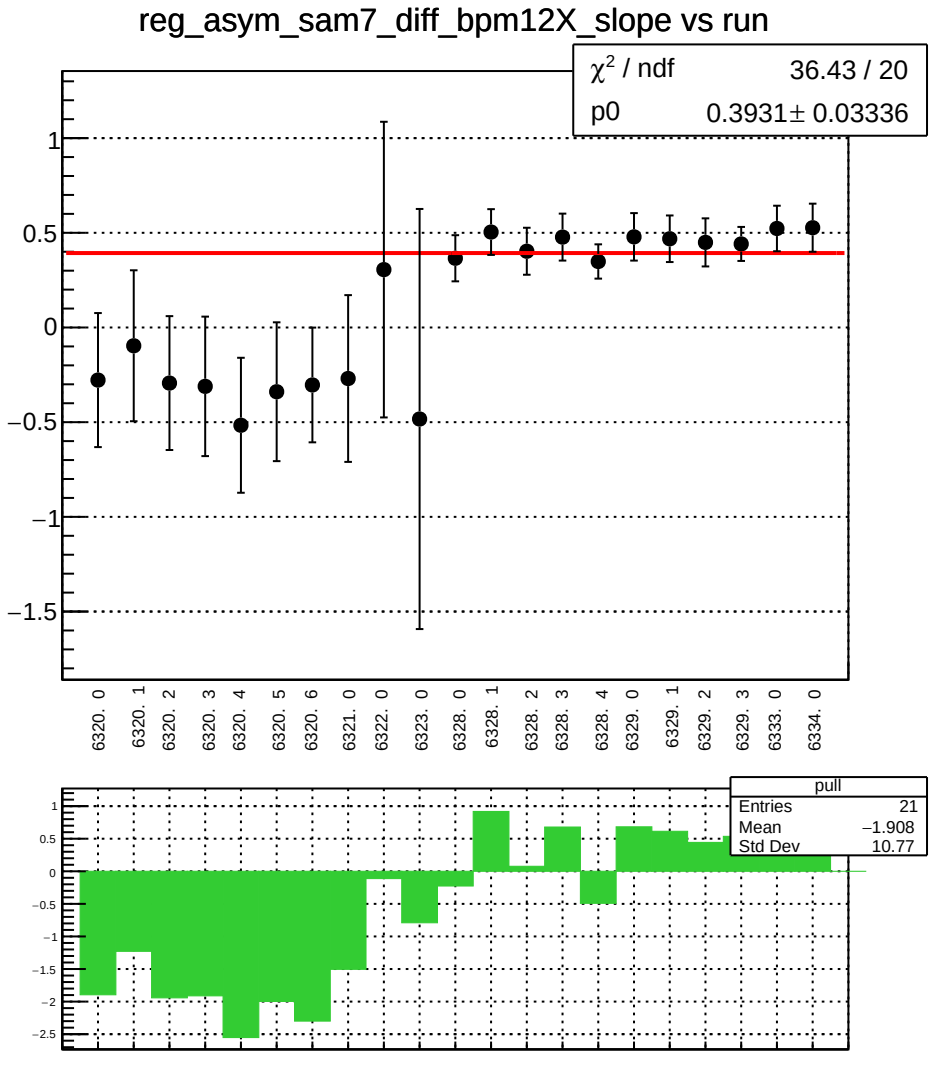

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 7.802 / 20
p0 8.897 ± 0.5968
20
15
10
5
0
−5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.68
Std Dev 10.16
1
0.5
0
−0.5
−1

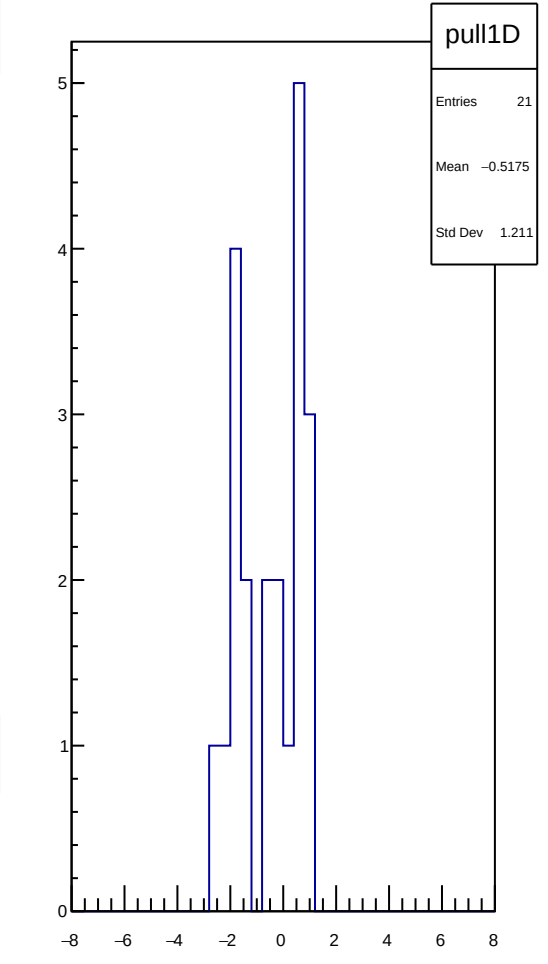

pull1D
Entries 21
Mean −0.06208
Std Dev 0.6064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

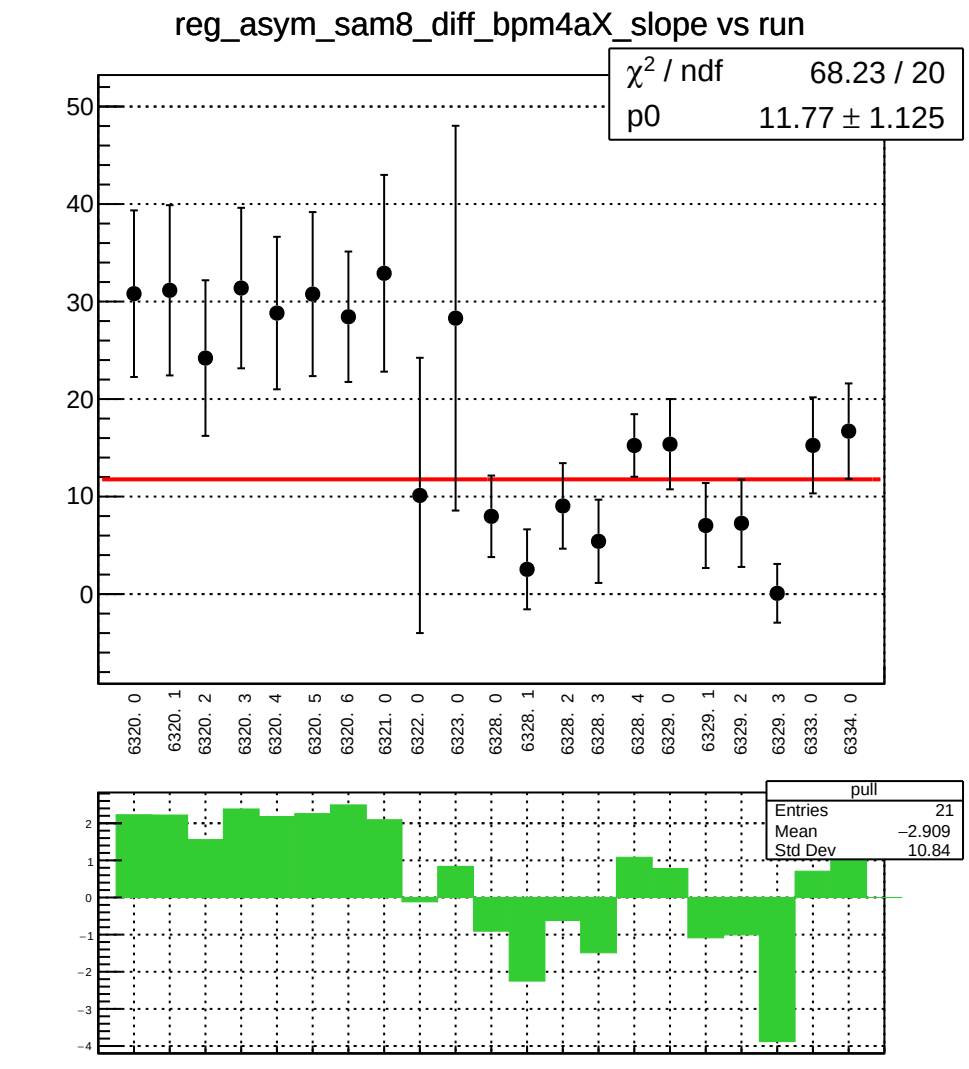

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 28.46 / 20
p0 −60.04 ± 1.403
−40
−50
−60
−70
−80
−90
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.825
Std Dev 15.61
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

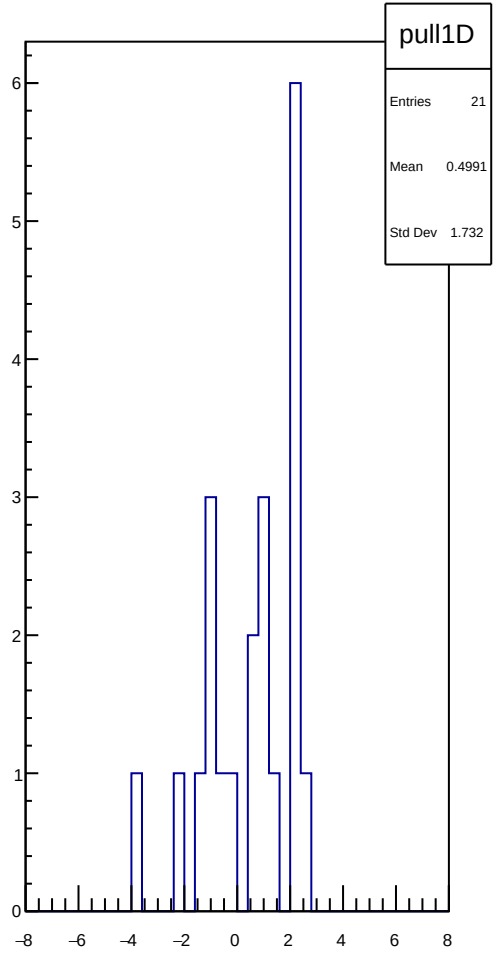

pull1D
Entries 21
Mean −0.2493
Std Dev 1.137
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

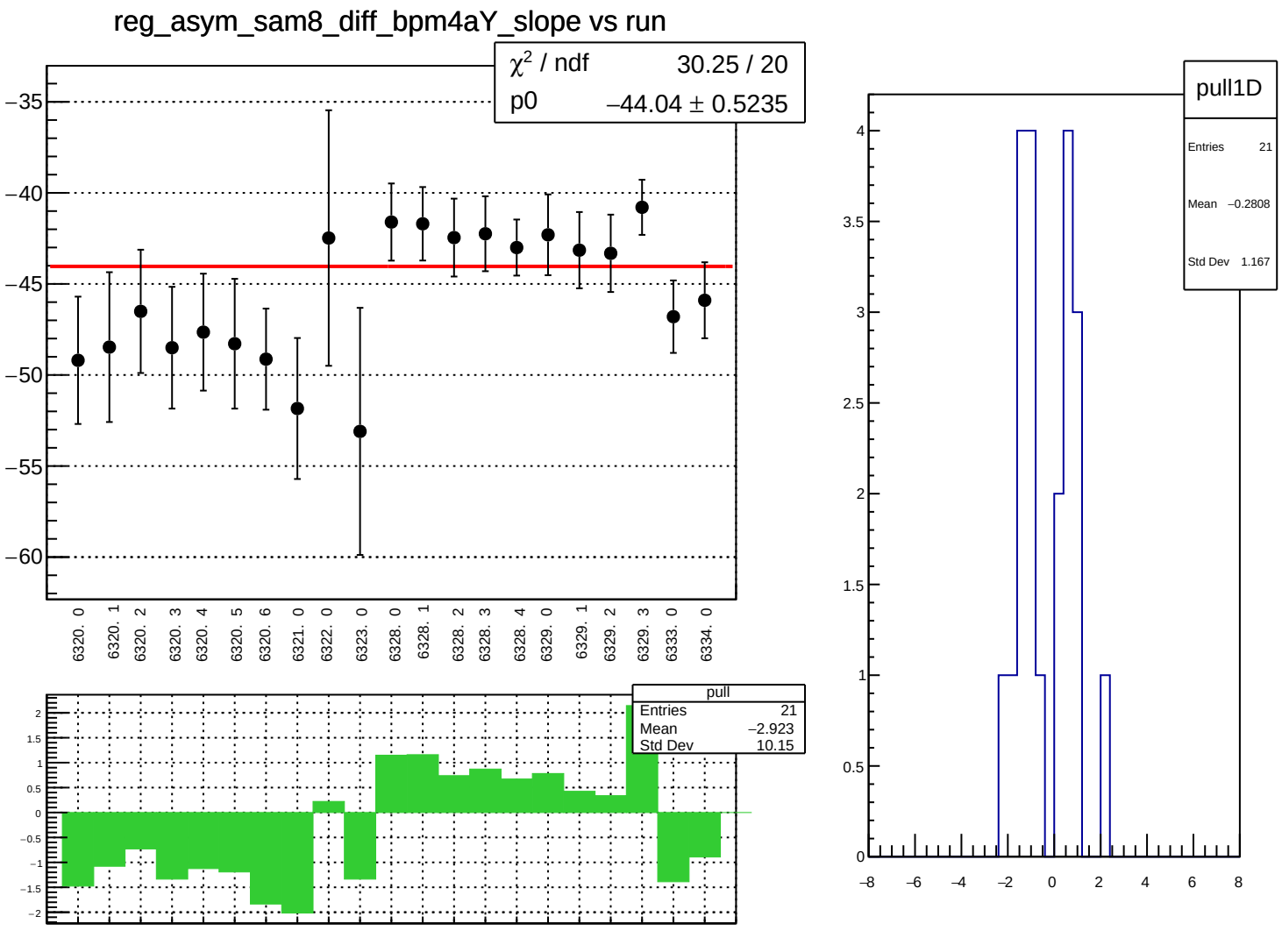

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 10.07 / 20
p0 −14.91 ± 0.6607
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.53
Std Dev 5.175
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.08501
Std Dev 0.6872
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

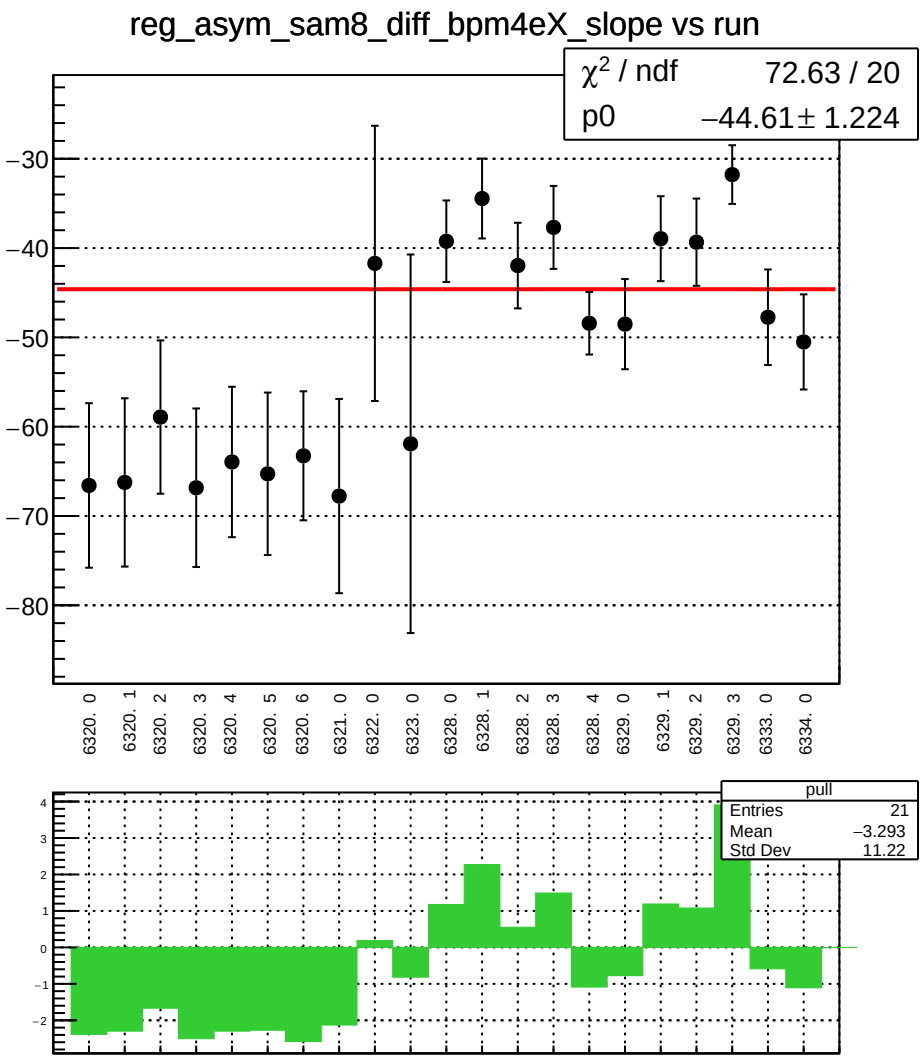

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 36.43 / 20
p0 0.3931± 0.03336
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.908
Std Dev 10.77
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

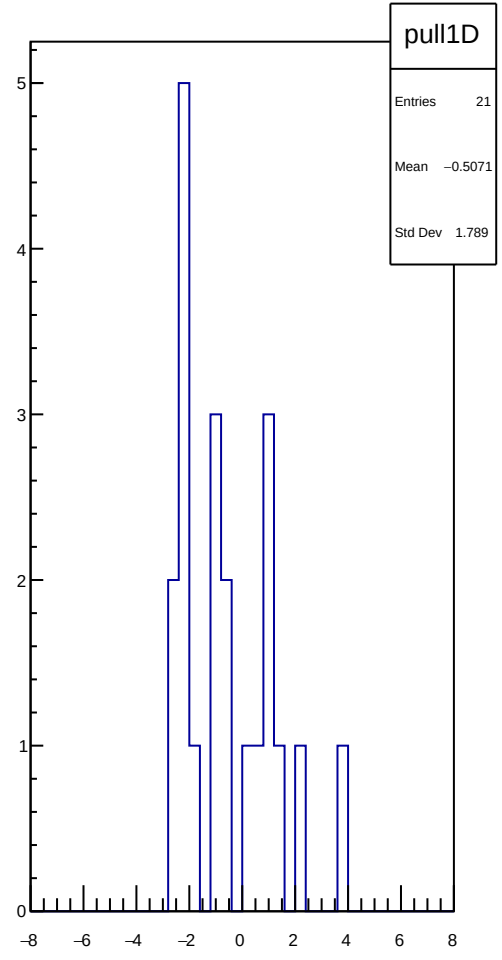

pull1D
Entries 21
Mean −0.5175
Std Dev 1.211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

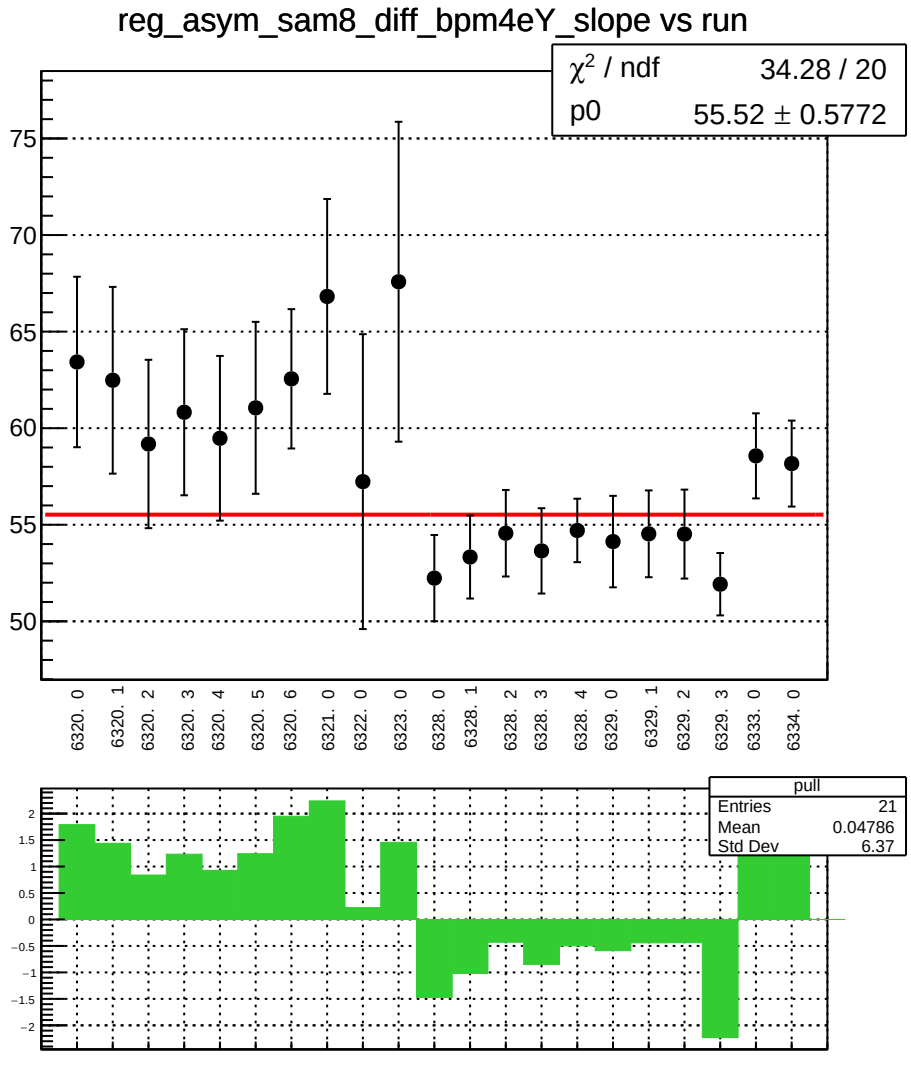

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 68.23 / 20
p0 11.77 ± 1.125
50
40
30
20
10
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.909
Std Dev 10.84
2
1
0
−1
−2
−3
−4

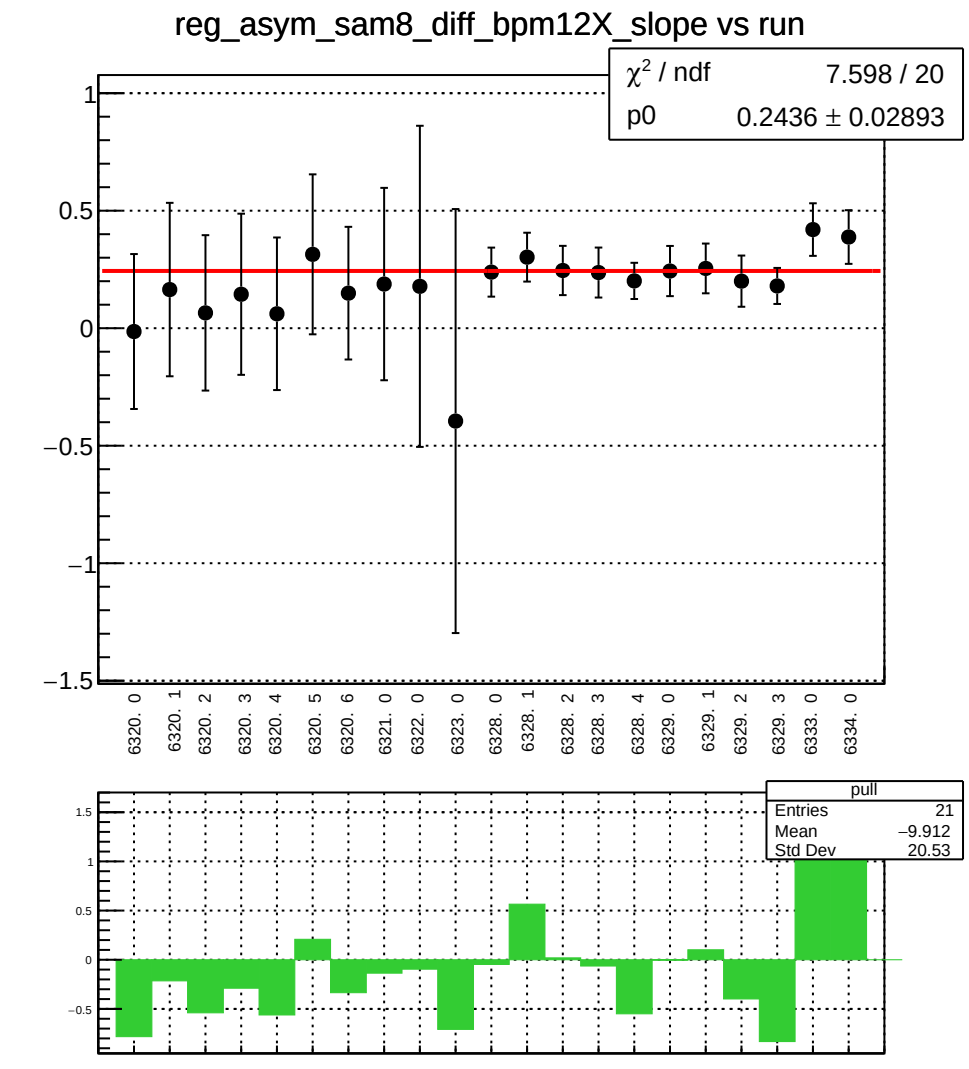

pull1D
Entries 21
Mean 0.4991
Std Dev 1.732
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

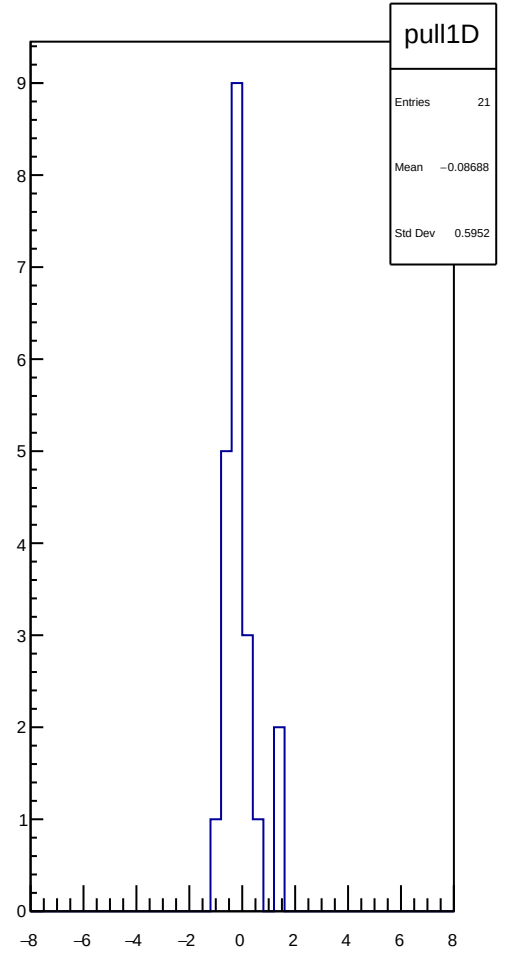

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 30.25 / 20
p0 −44.04 ± 0.5235
−35
−40
−45
−50
−55
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.923
Std Dev 10.15
pull1D
Entries 21
Mean −0.2808
Std Dev 1.167

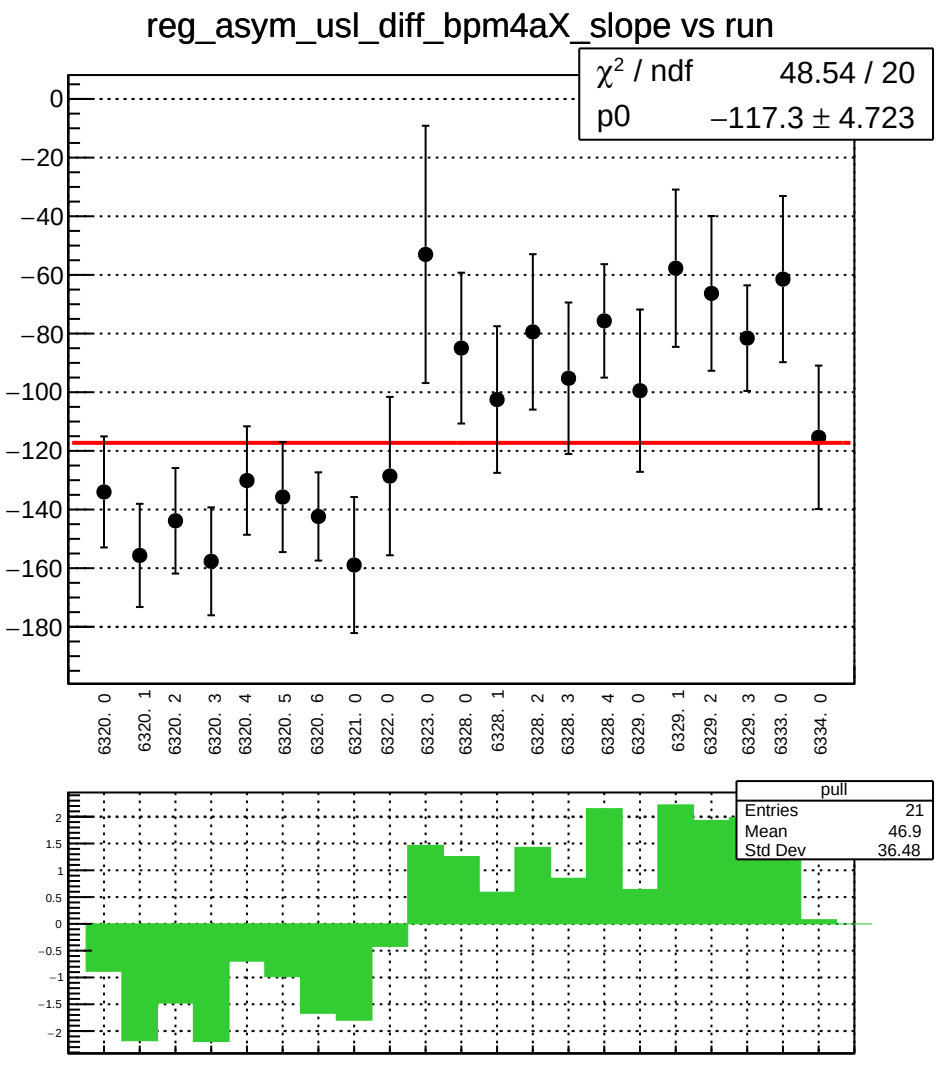

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 72.63 / 20
p0 −44.61± 1.224
−30
−40
−50
−60
−70
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.293
Std Dev 11.22
4
3
2
1
0
−1
−2

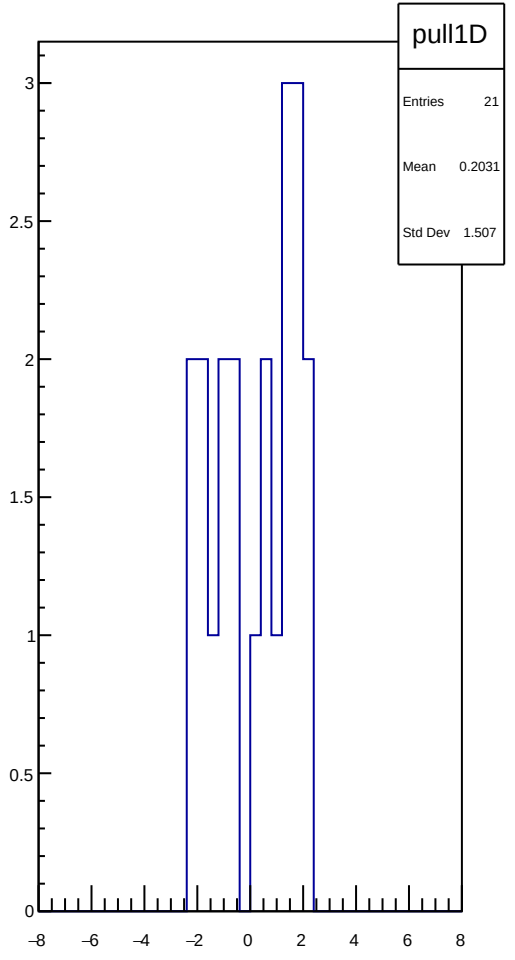

pull1D
Entries 21
Mean −0.5071
Std Dev 1.789
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

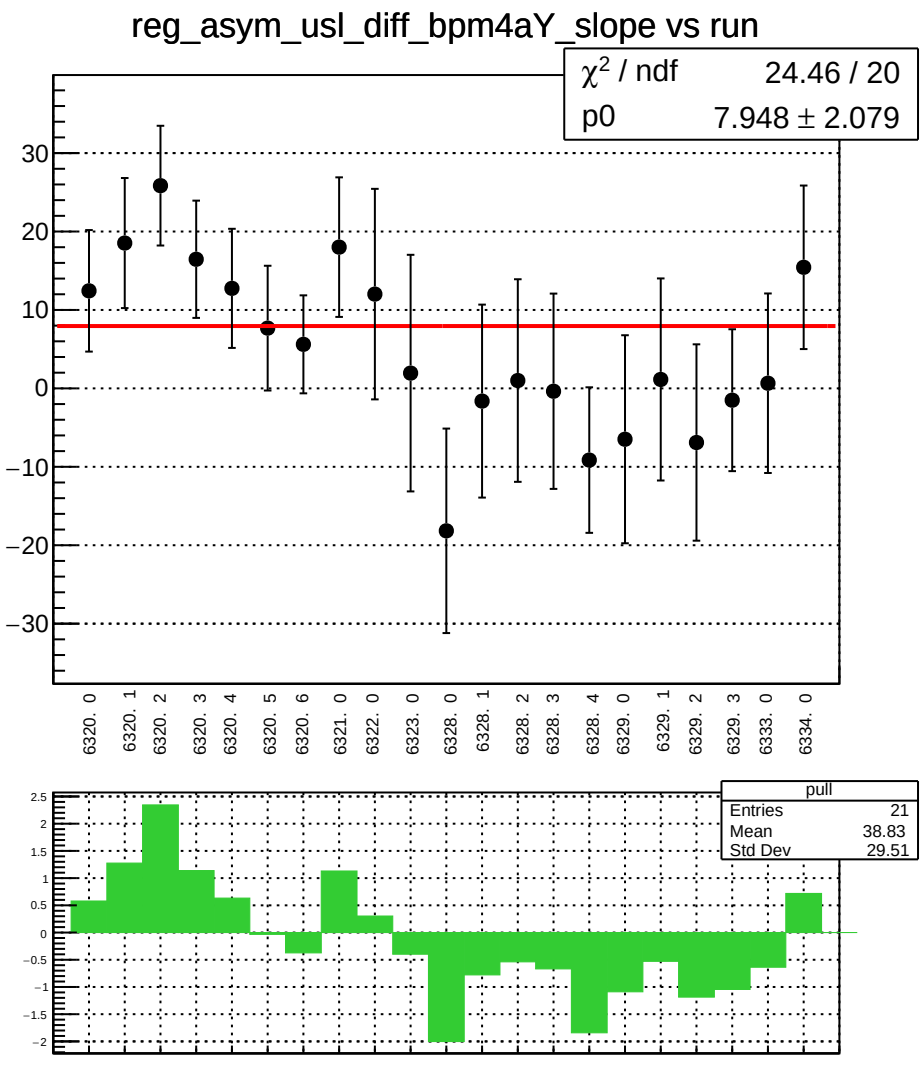

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 34.28 / 20
p0 55.52 ± 0.5772
75
70
65
60
55
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.04786
Std Dev 6.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.3782
Std Dev 1.22
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

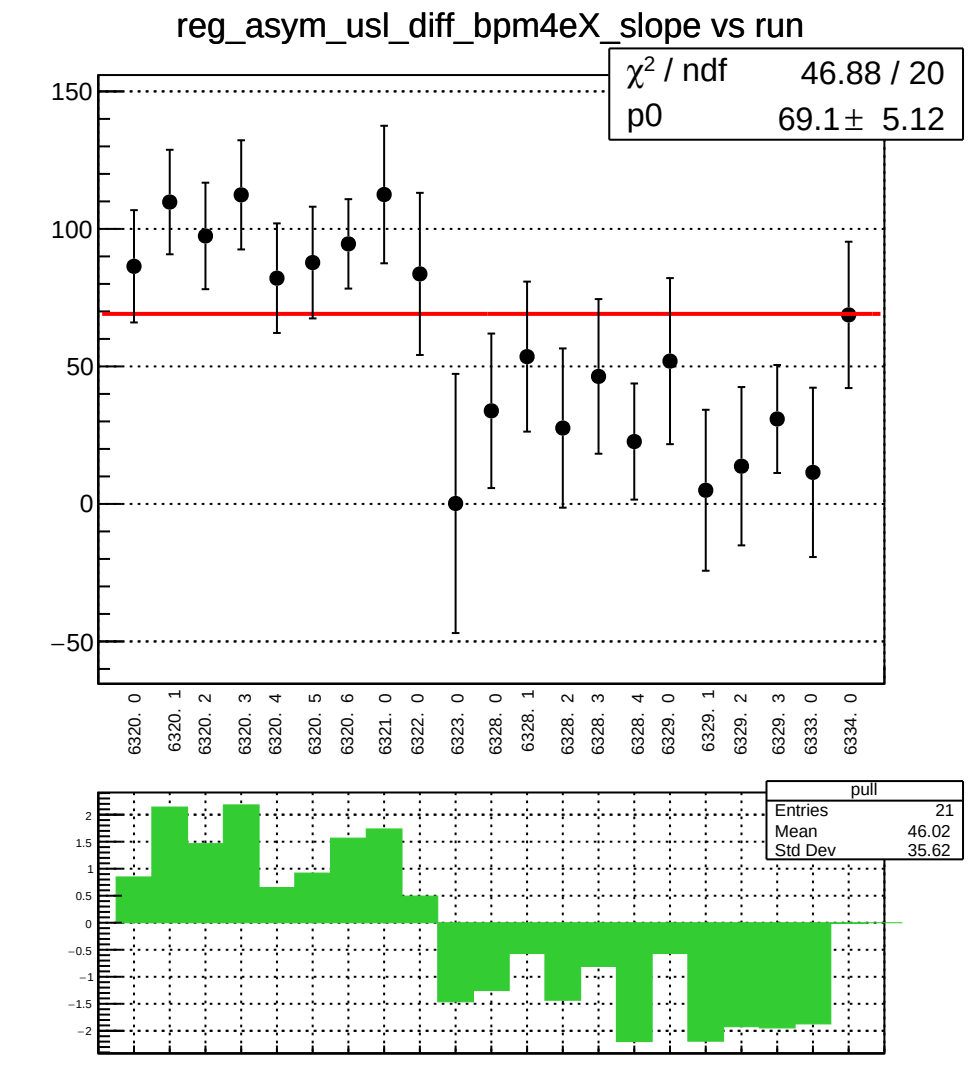

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 7.598 / 20
p0 0.2436 ± 0.02893
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.912
Std Dev 20.53
1.5
1
0.5
0
−0.5

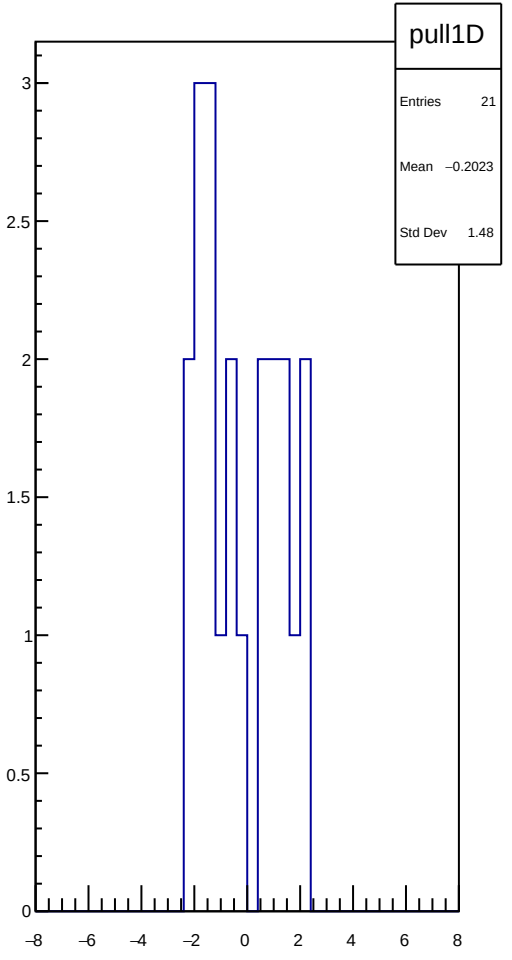

pull1D
Entries 21
Mean −0.08688
Std Dev 0.5952
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

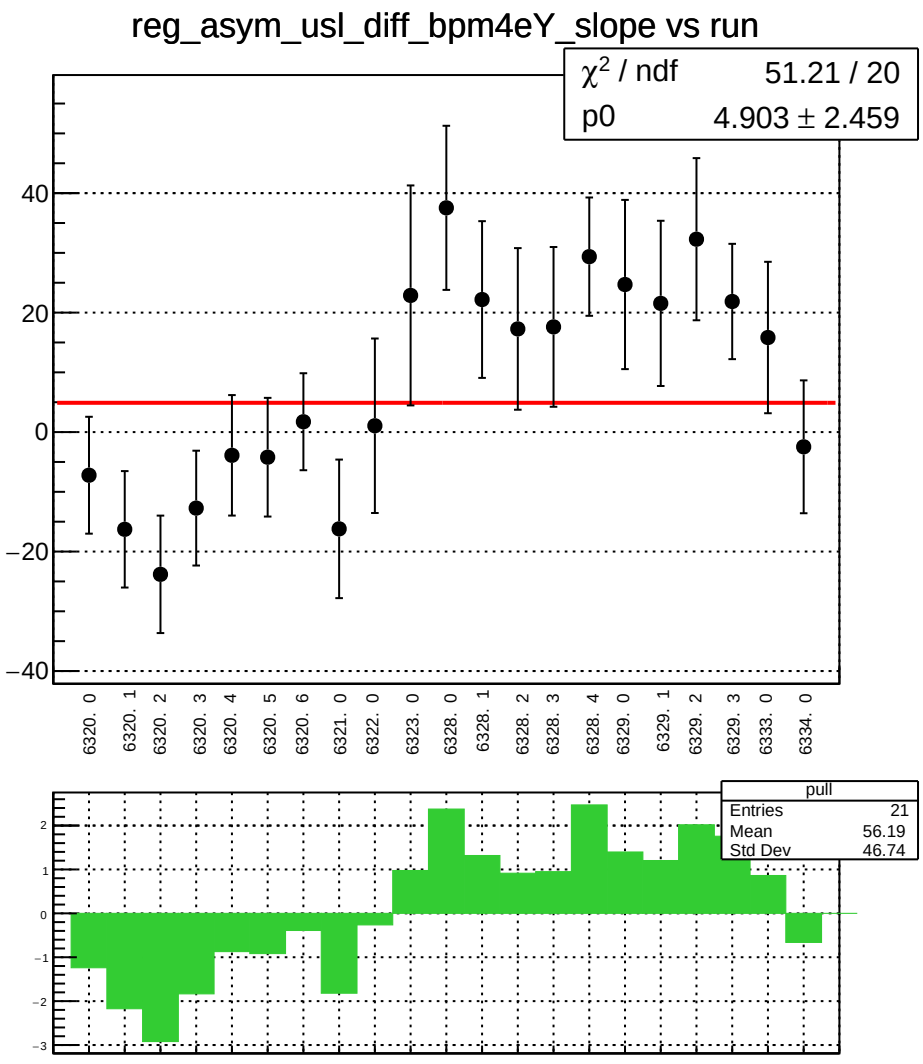

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 48.54 / 20
p0 −117.3 ± 4.723
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.9
Std Dev 36.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

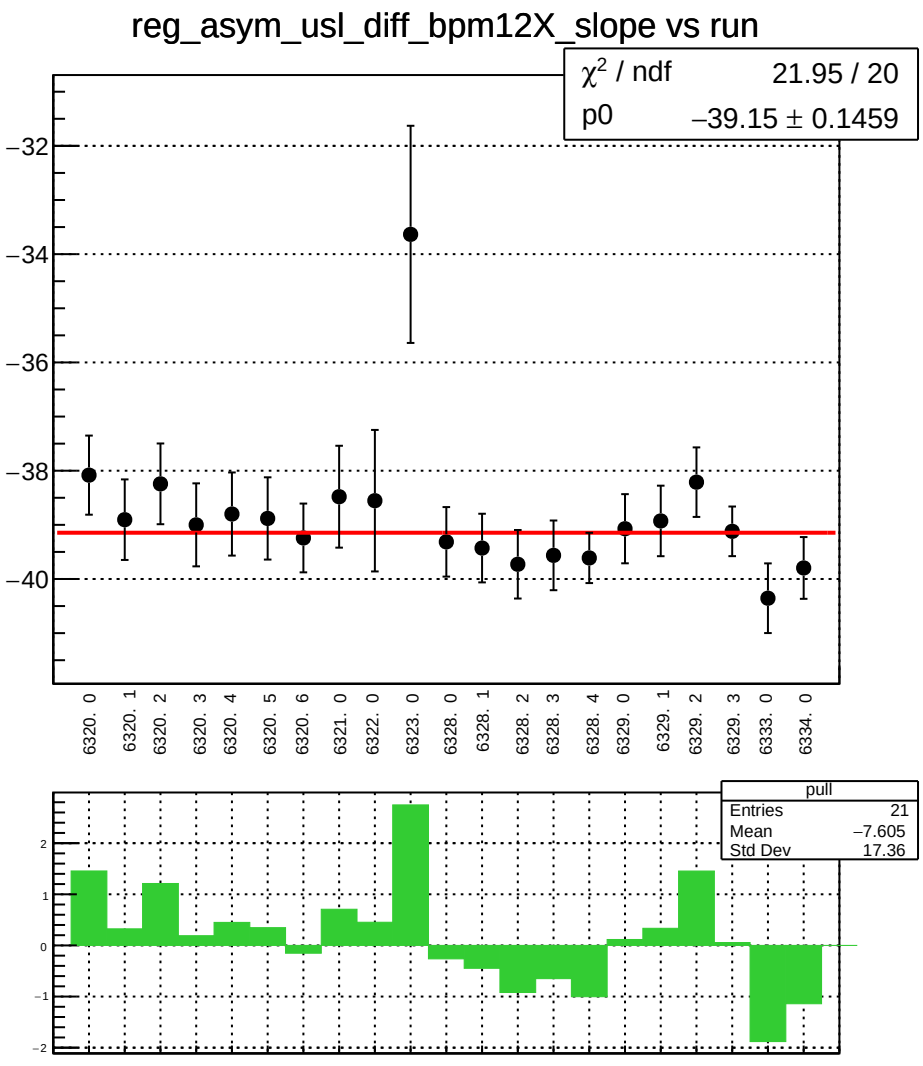

pull1D
Entries 21
Mean 0.2031
Std Dev 1.507
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

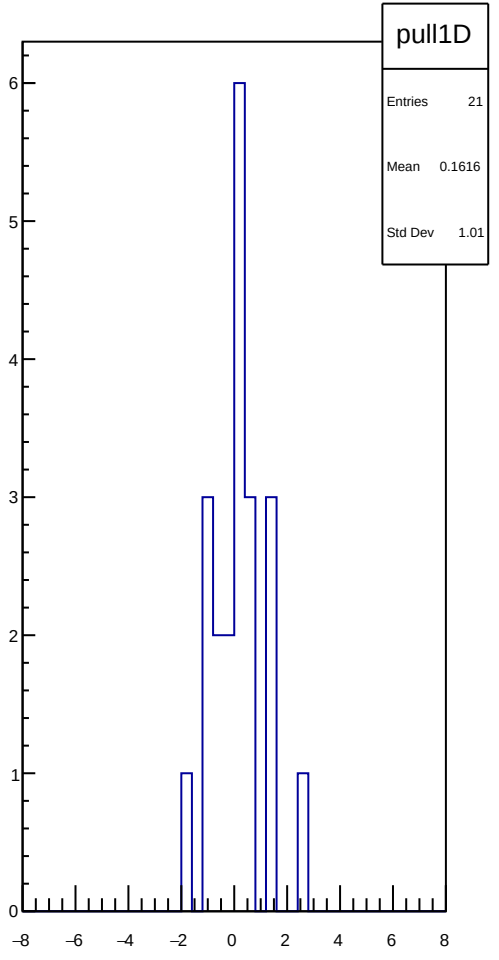

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 24.46 / 20
p0 7.948 ± 2.079
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.83
Std Dev 29.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1426
Std Dev 1.07
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

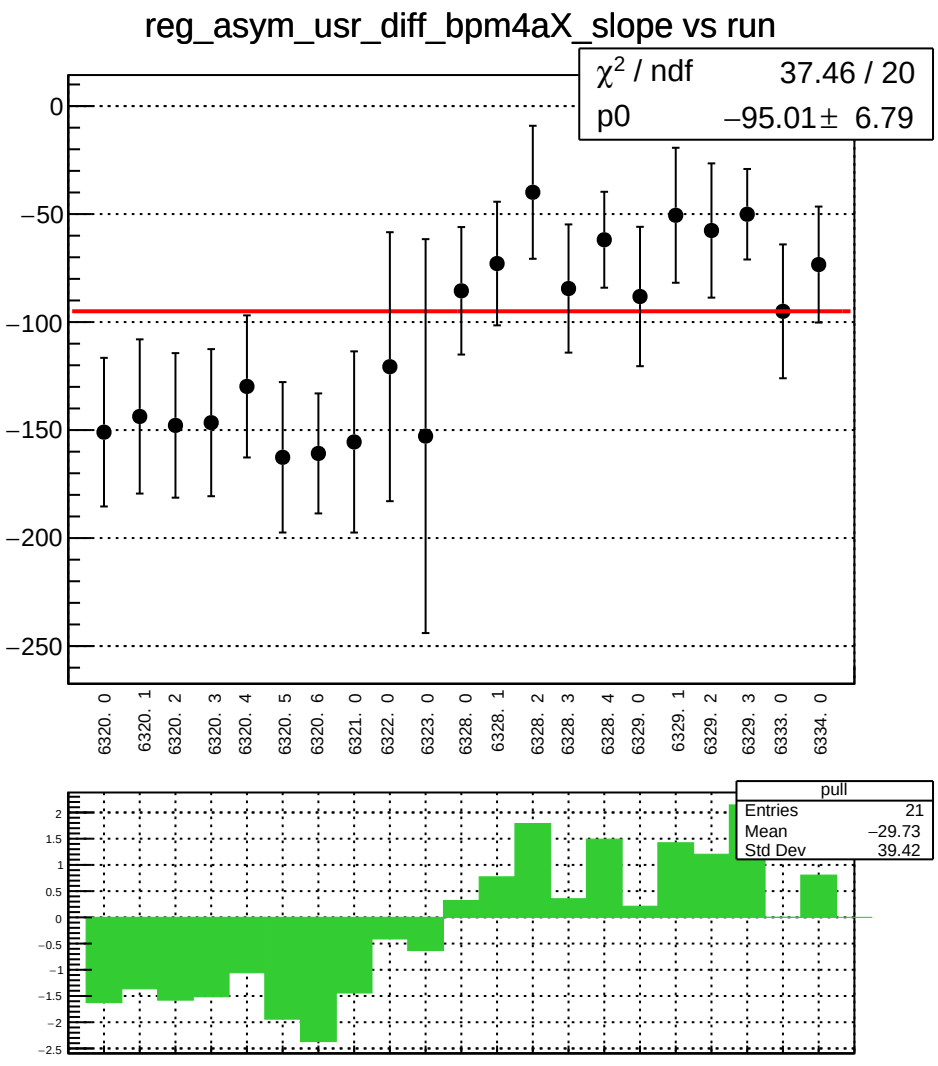

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 46.88 / 20
p0 69.1 ± 5.12
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.02
Std Dev 35.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

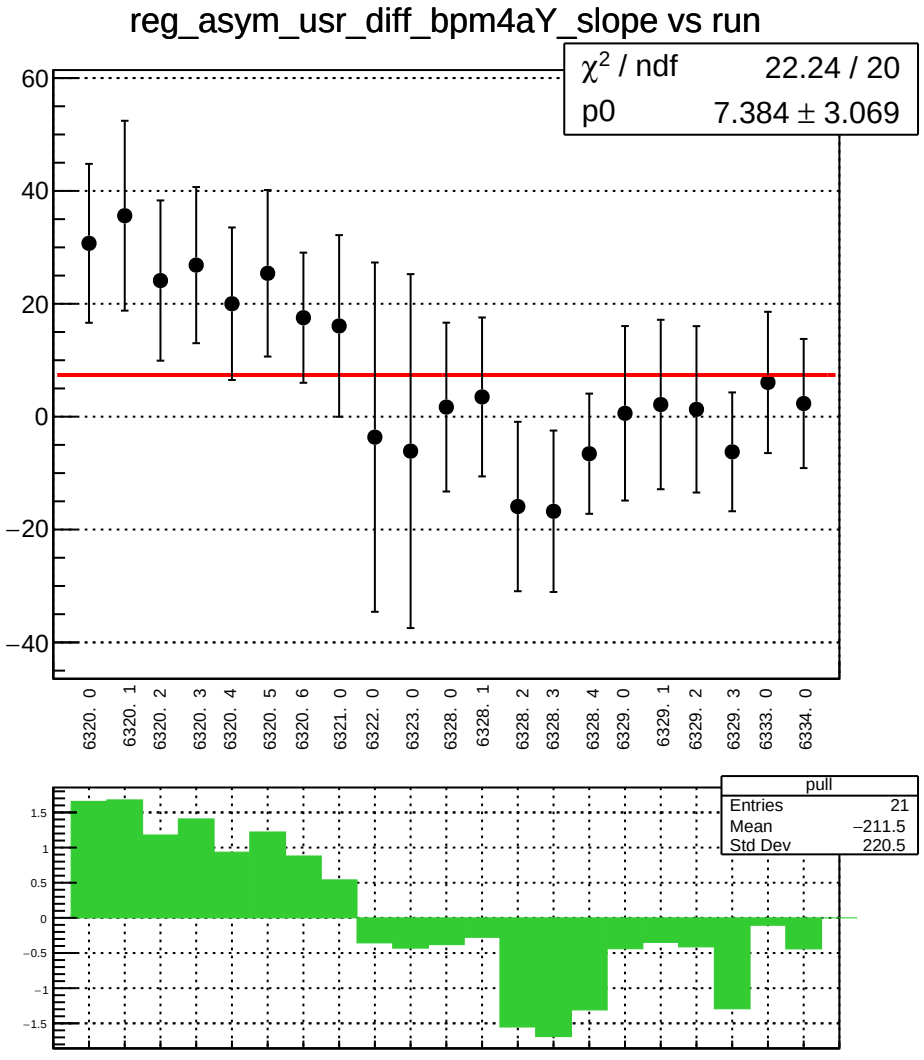

pull1D
Entries 21
Mean −0.2023
Std Dev 1.48
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

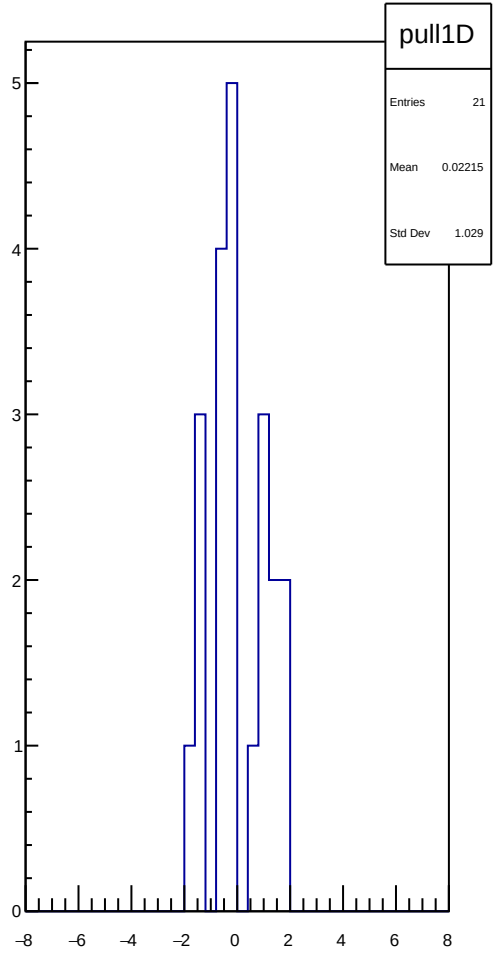

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 51.21 / 20
p0 4.903 ± 2.459
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 56.19
Std Dev 46.74
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.15
Std Dev 1.554
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

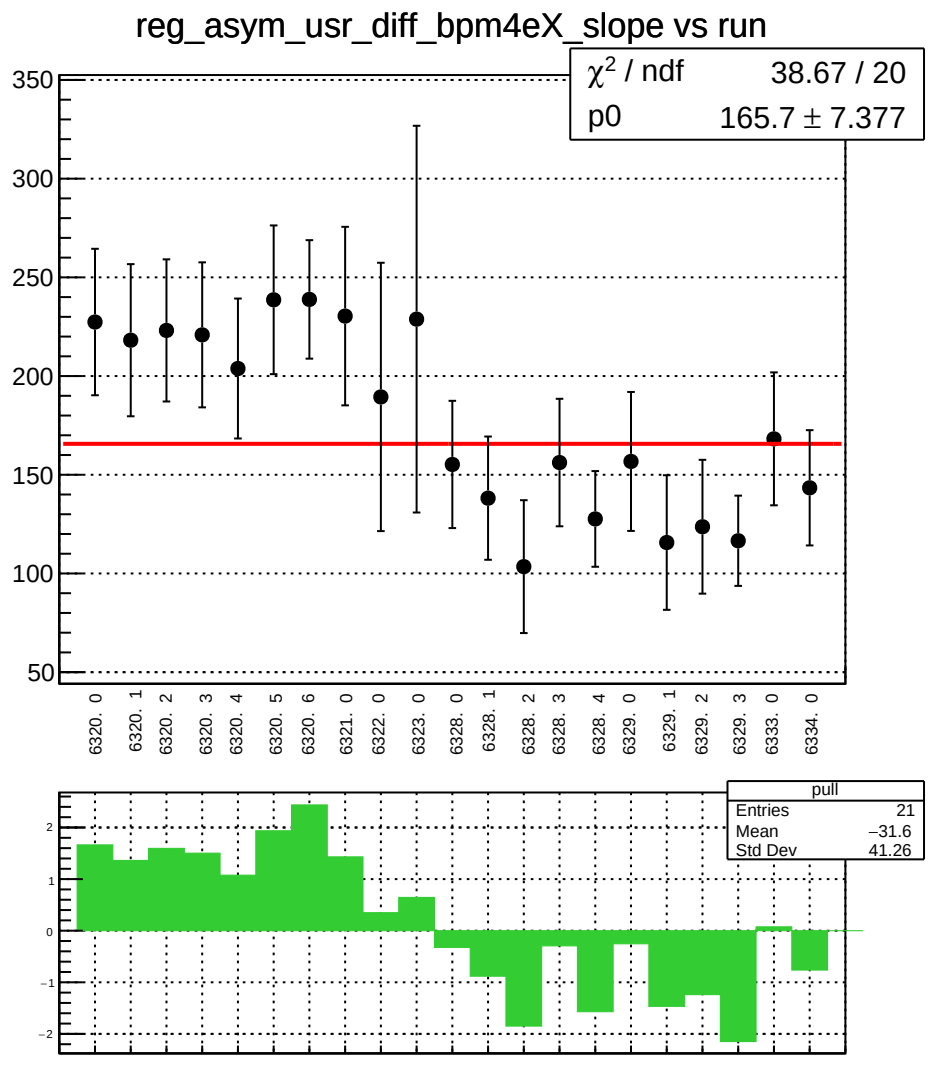

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 21.95 / 20
p0 −39.15 ± 0.1459
−32
−34
−36
−38
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.605
Std Dev 17.36
2
1
0
−1
−2

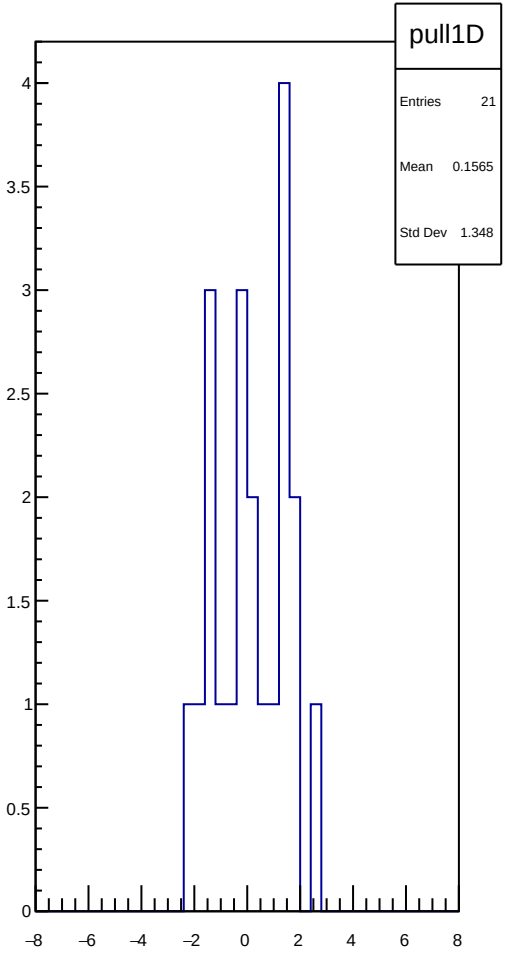

pull1D
Entries 21
Mean 0.1616
Std Dev 1.01
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

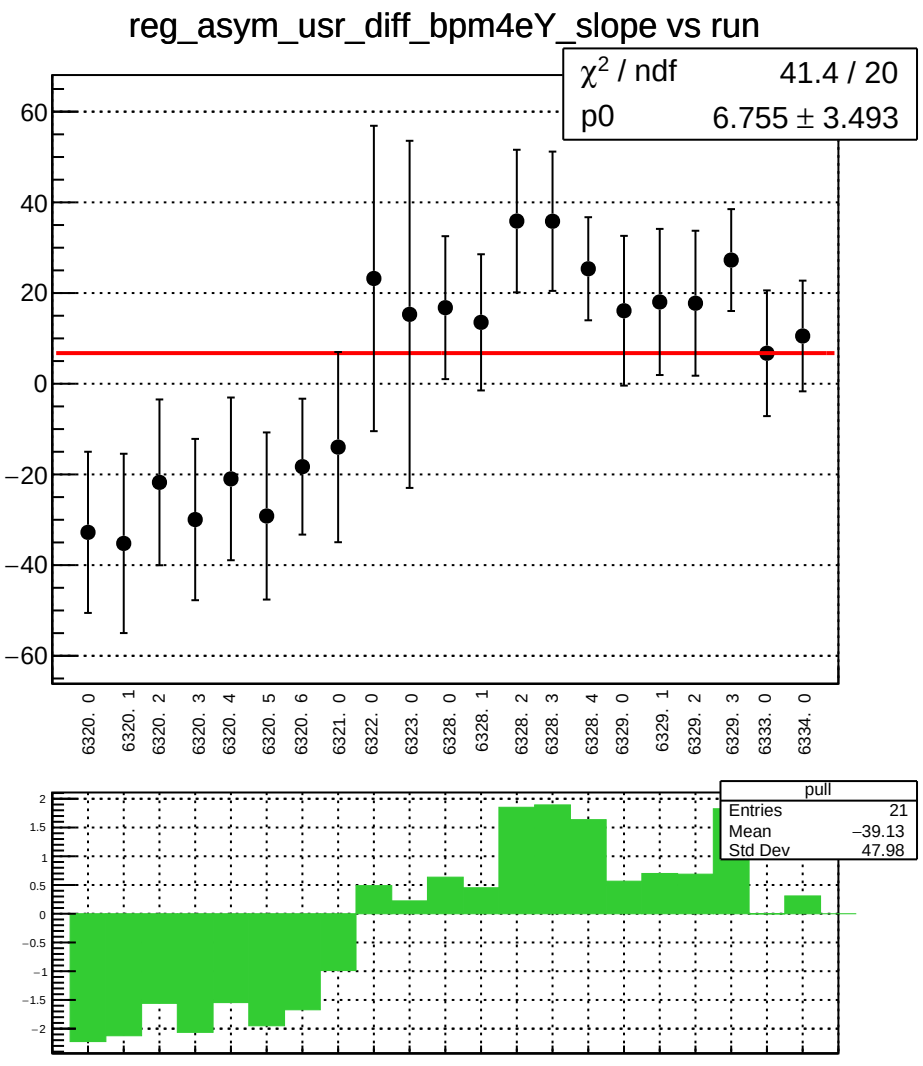

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 37.46 / 20
p0 −95.01± 6.79
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.73
Std Dev 39.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.163
Std Dev 1.326
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

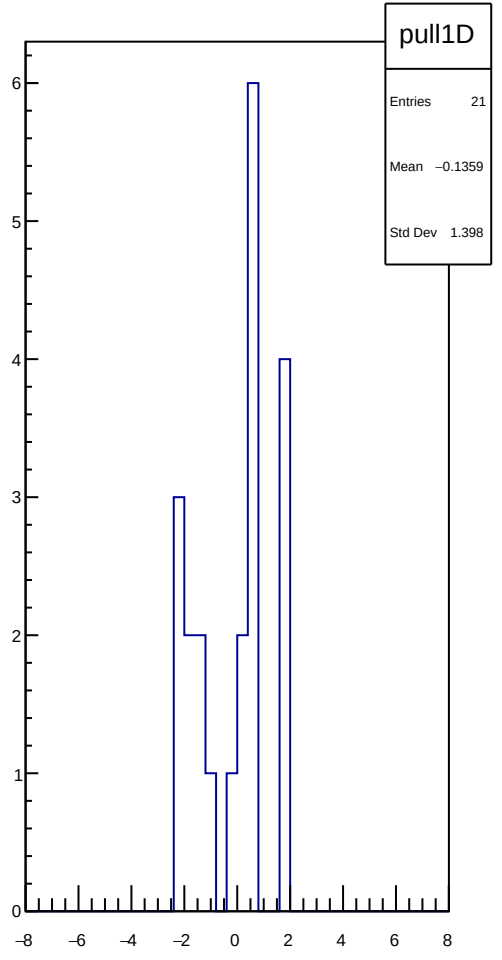

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 22.24 / 20
p0 7.384 ± 3.069
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −211.5
Std Dev 220.5
1.5
1
0.5
0
−0.5
−1
−1.5

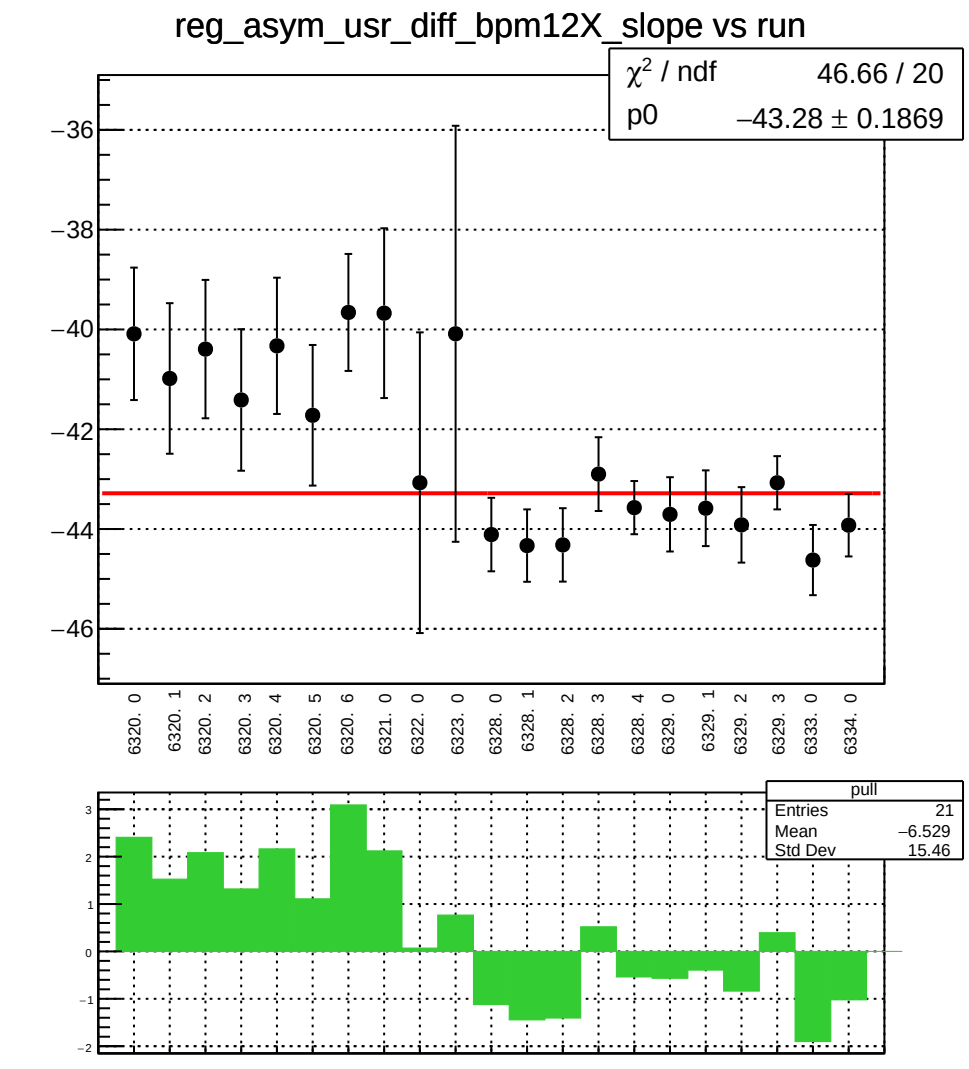

pull1D
Entries 21
Mean 0.02215
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

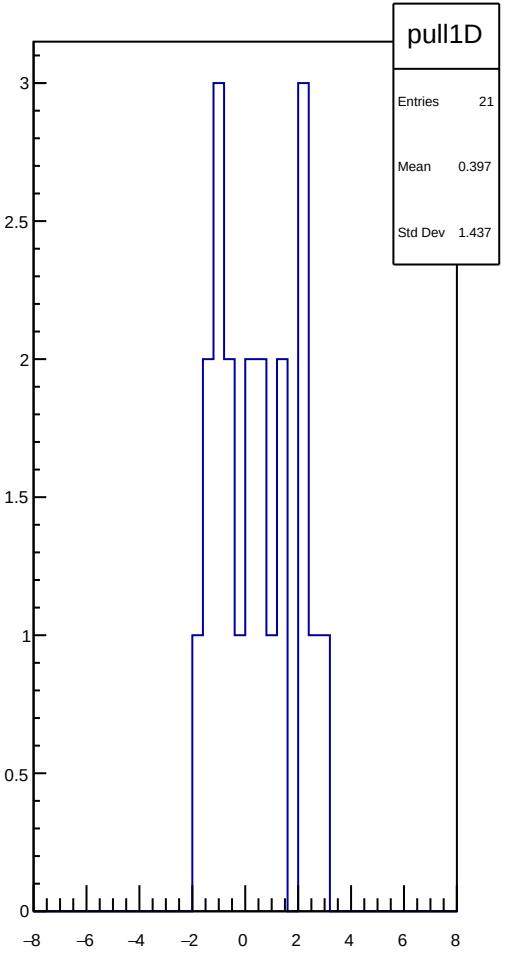

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 38.67 / 20
p0 165.7 ± 7.377
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −31.6
Std Dev 41.26
2
1
0
−1
−2

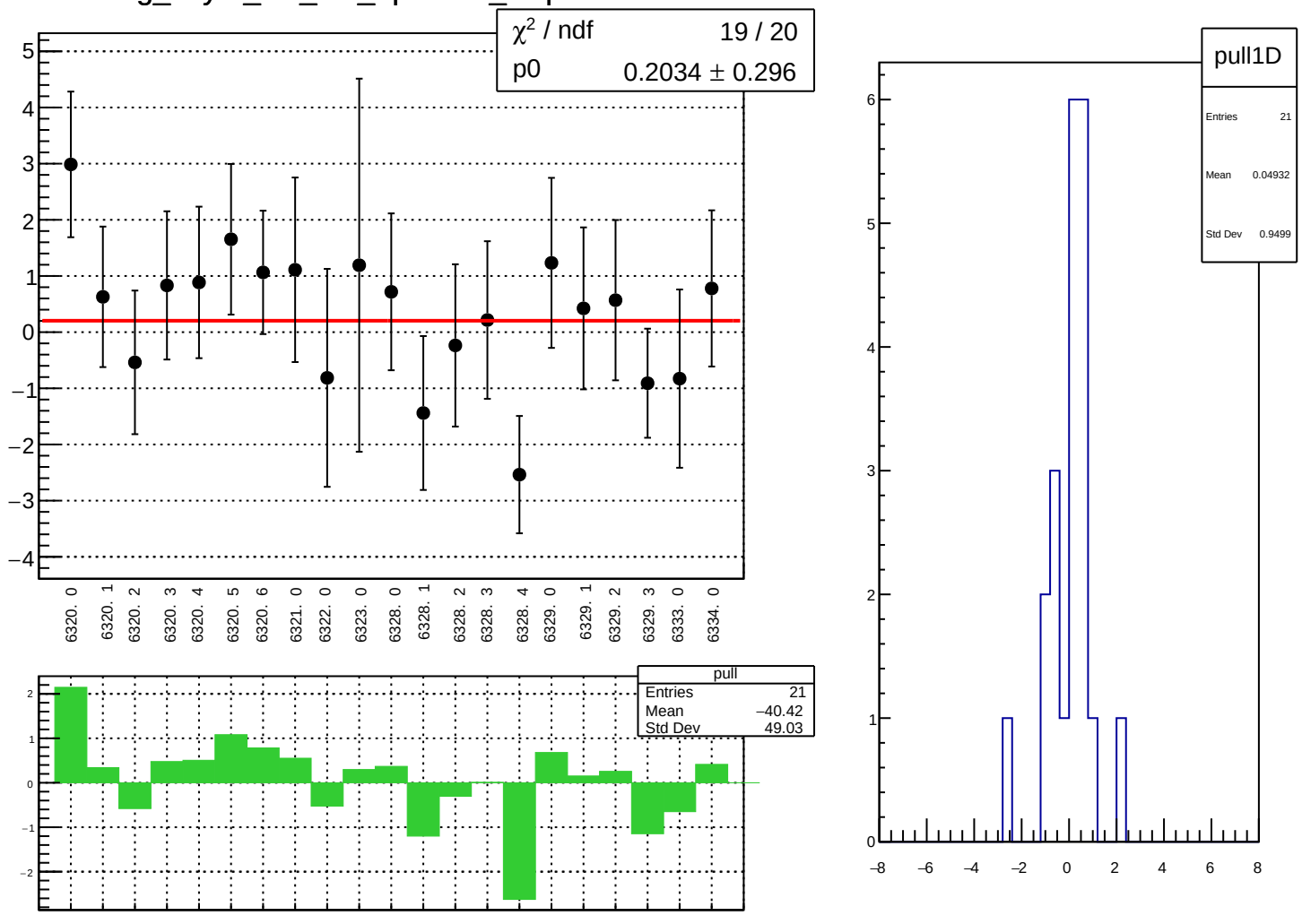

pull1D
Entries 21
Mean 0.1565
Std Dev 1.348
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

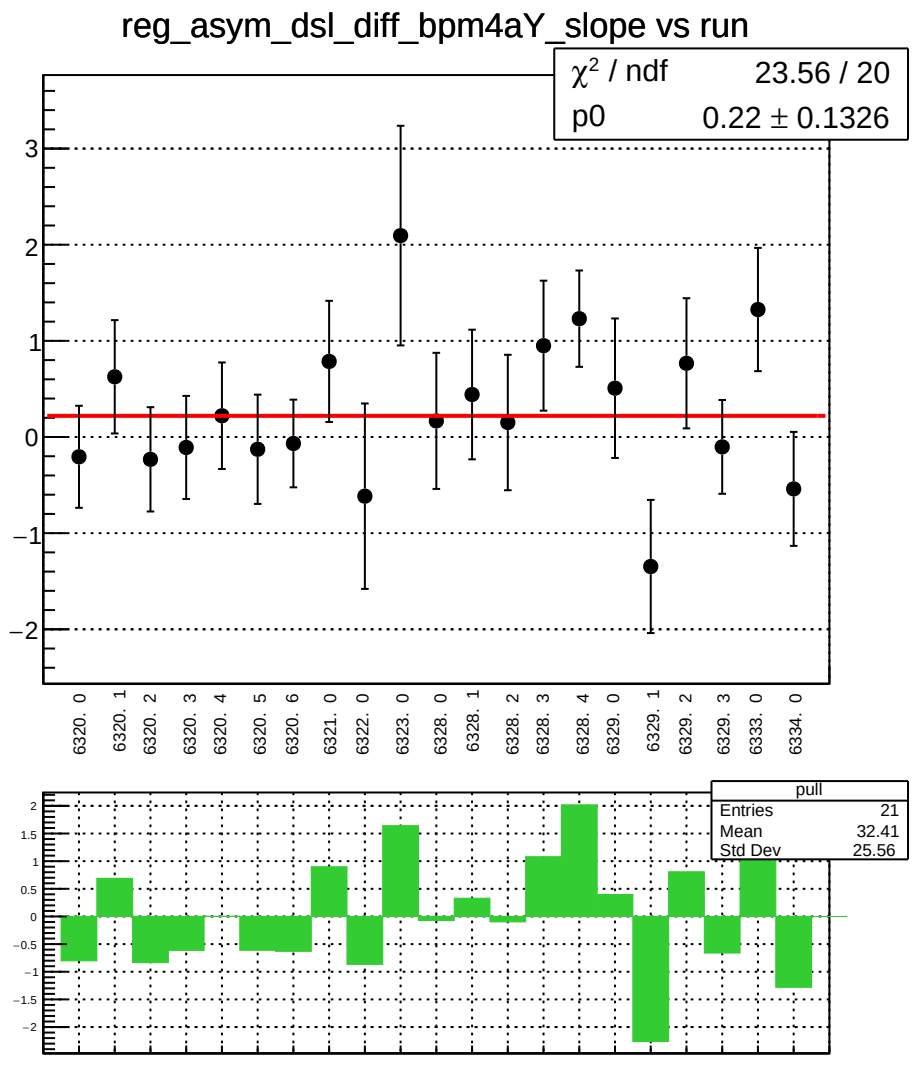

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 41.4 / 20
p0 6.755 ± 3.493
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −39.13
Std Dev 47.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

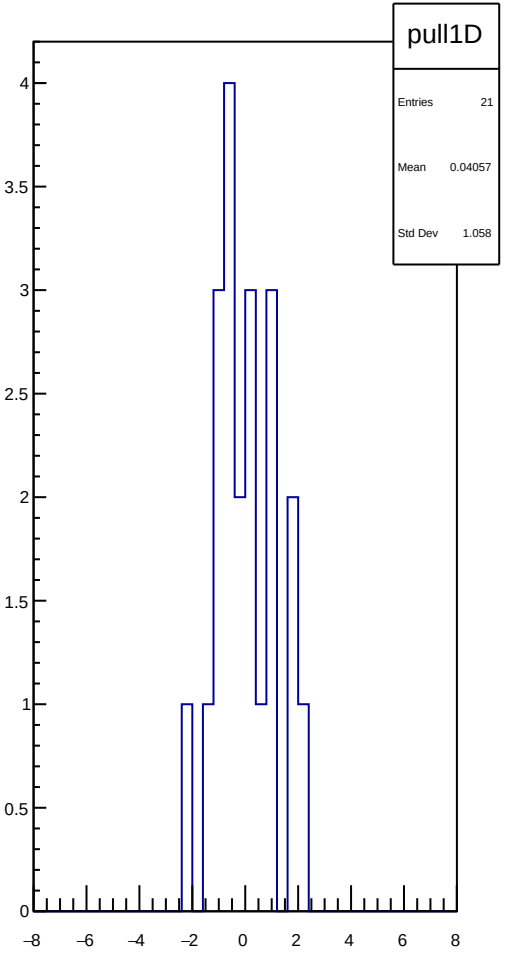

pull1D
Entries 21
Mean −0.1359
Std Dev 1.398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

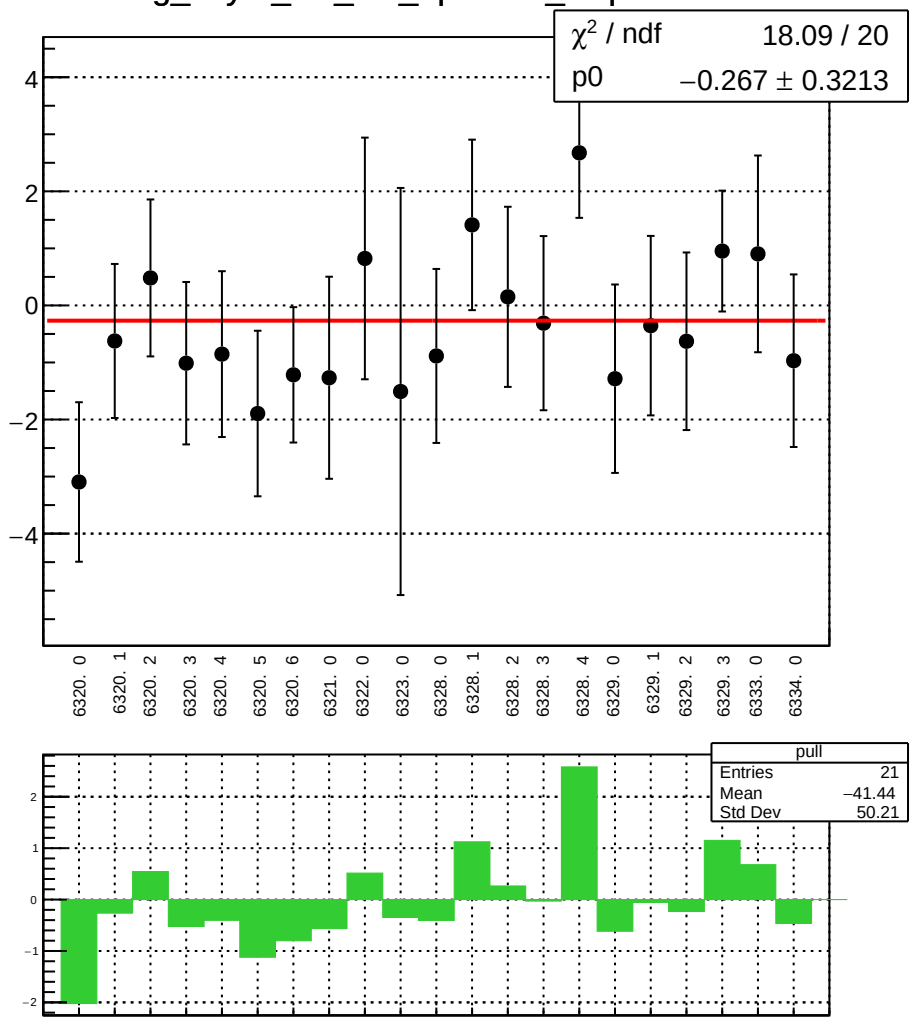

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 46.66 / 20
p0 −43.28 ± 0.1869
−36
−38
−40
−42
−44
−46
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.529
Std Dev 15.46
3
2
1
0
−1
−2

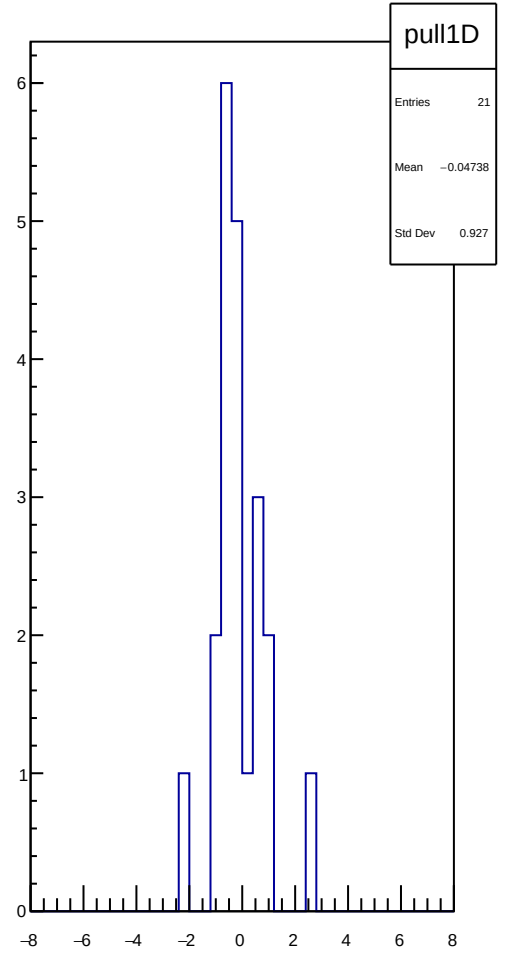

pull1D
Entries 21
Mean 0.397
Std Dev 1.437
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

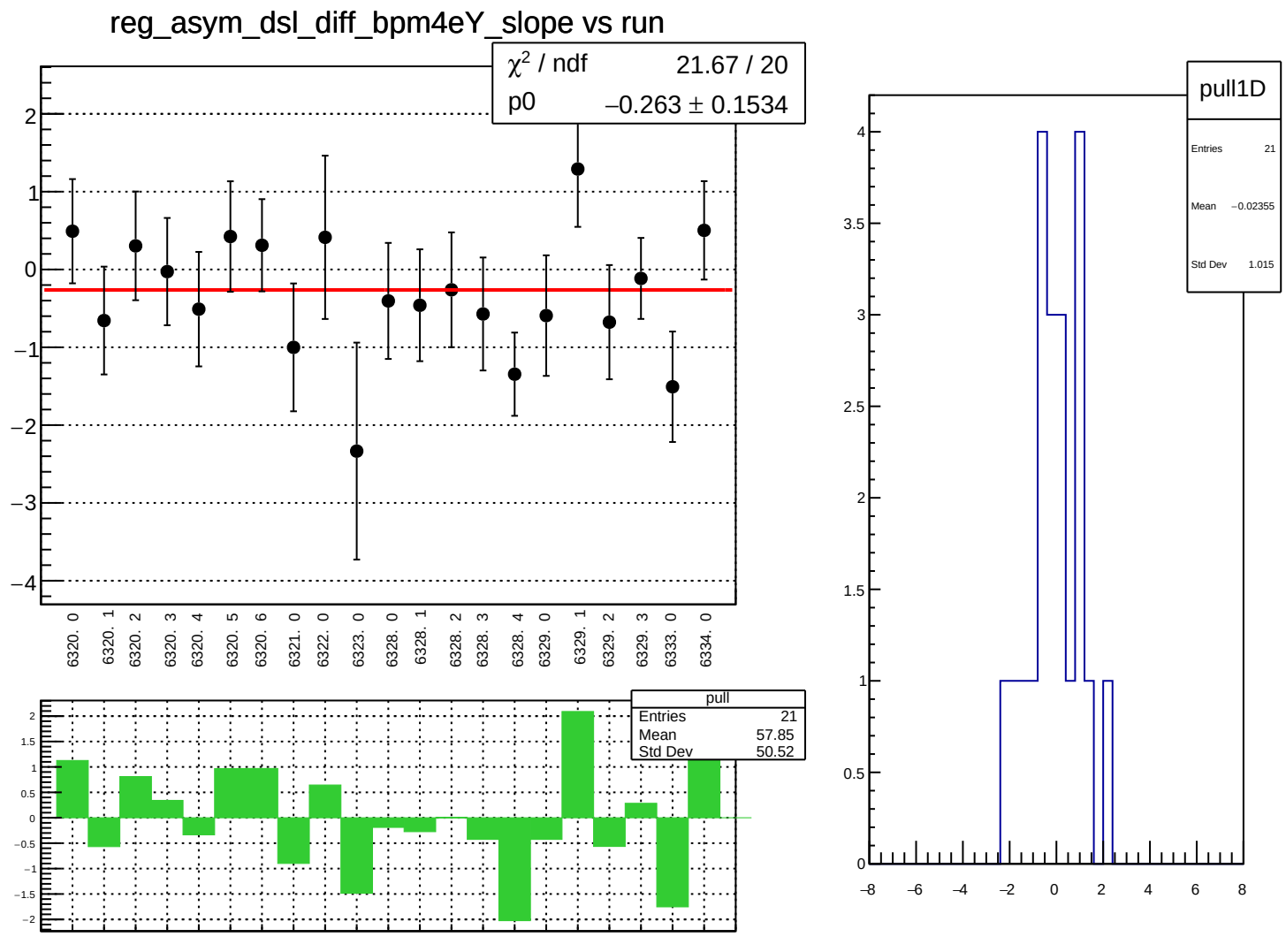

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 19 / 20
p0 0.2034 ± 0.296
5
4
3
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −40.42
Std Dev 49.03
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.04932
Std Dev 0.9499
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

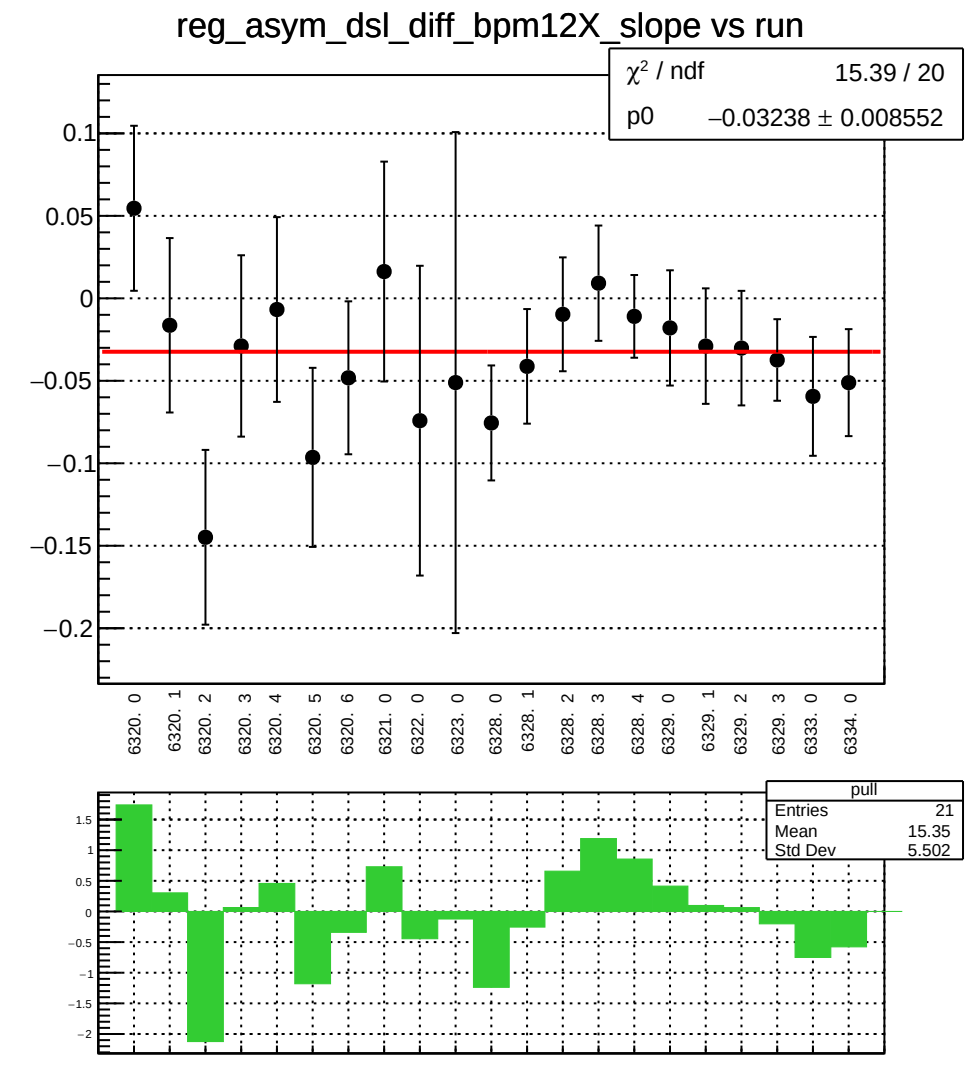

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 23.56 / 20
p0 0.22 ± 0.1326
3
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.41
Std Dev 25.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

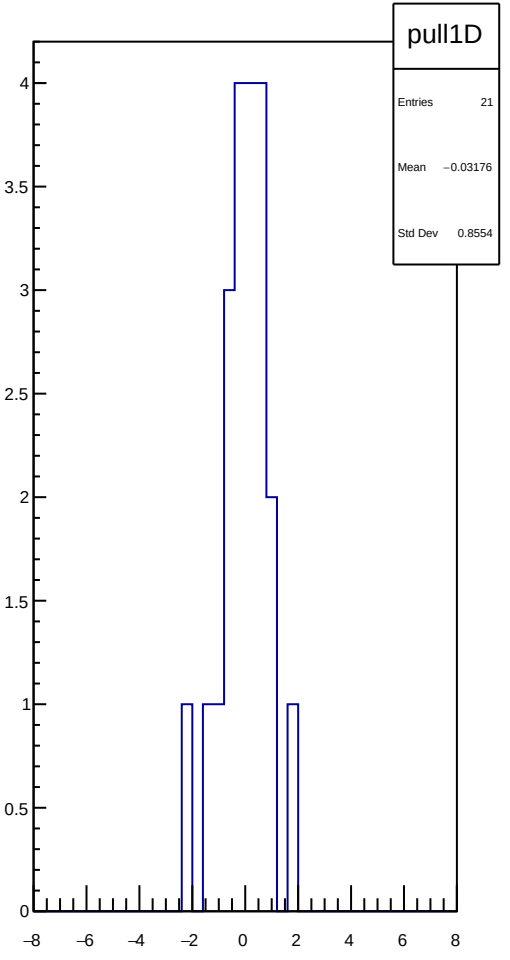

pull1D
Entries 21
Mean 0.04057
Std Dev 1.058
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

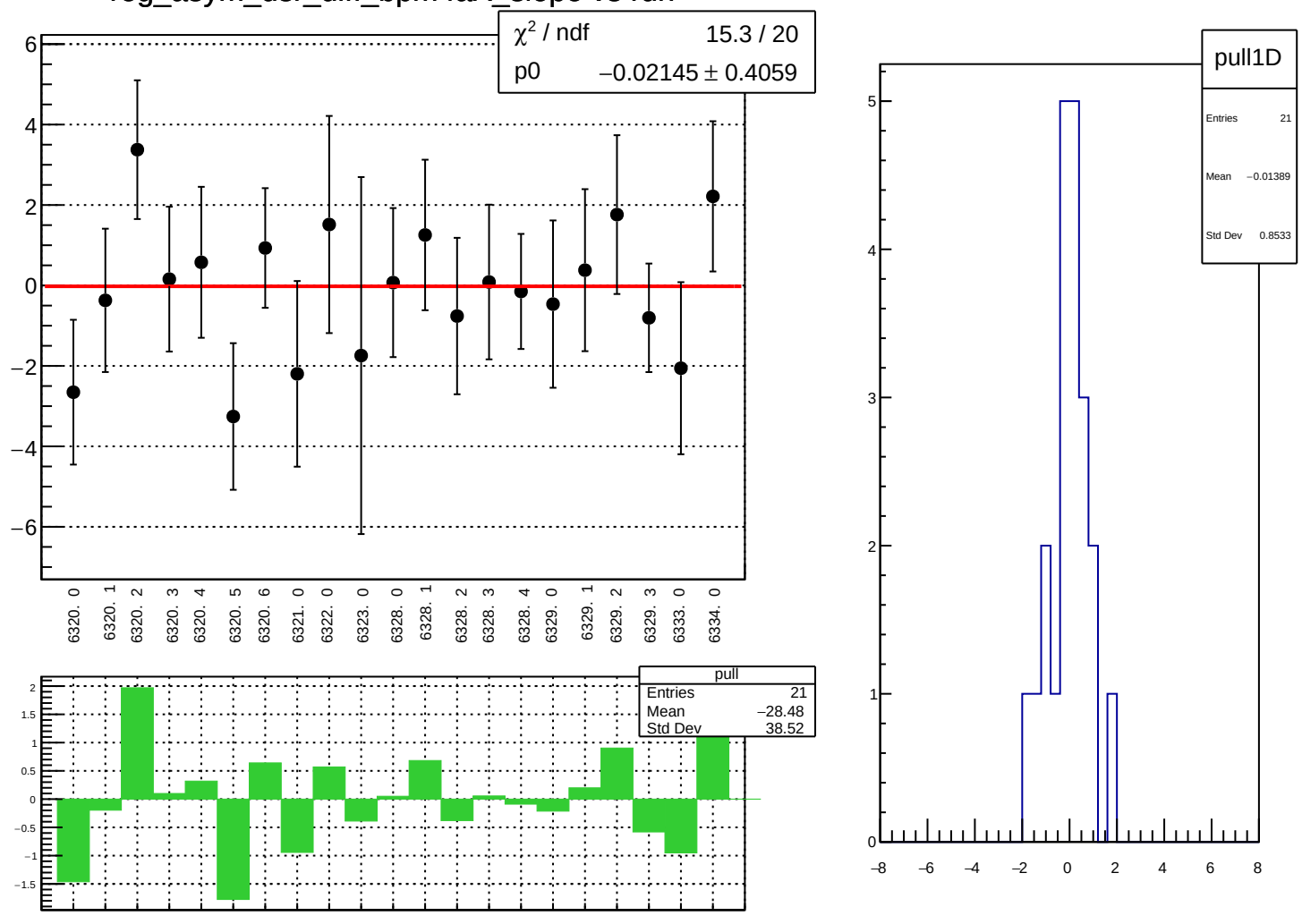

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 18.09 / 20
p0 −0.267 ± 0.3213
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −41.44
Std Dev 50.21
2
1
0
−1
−2

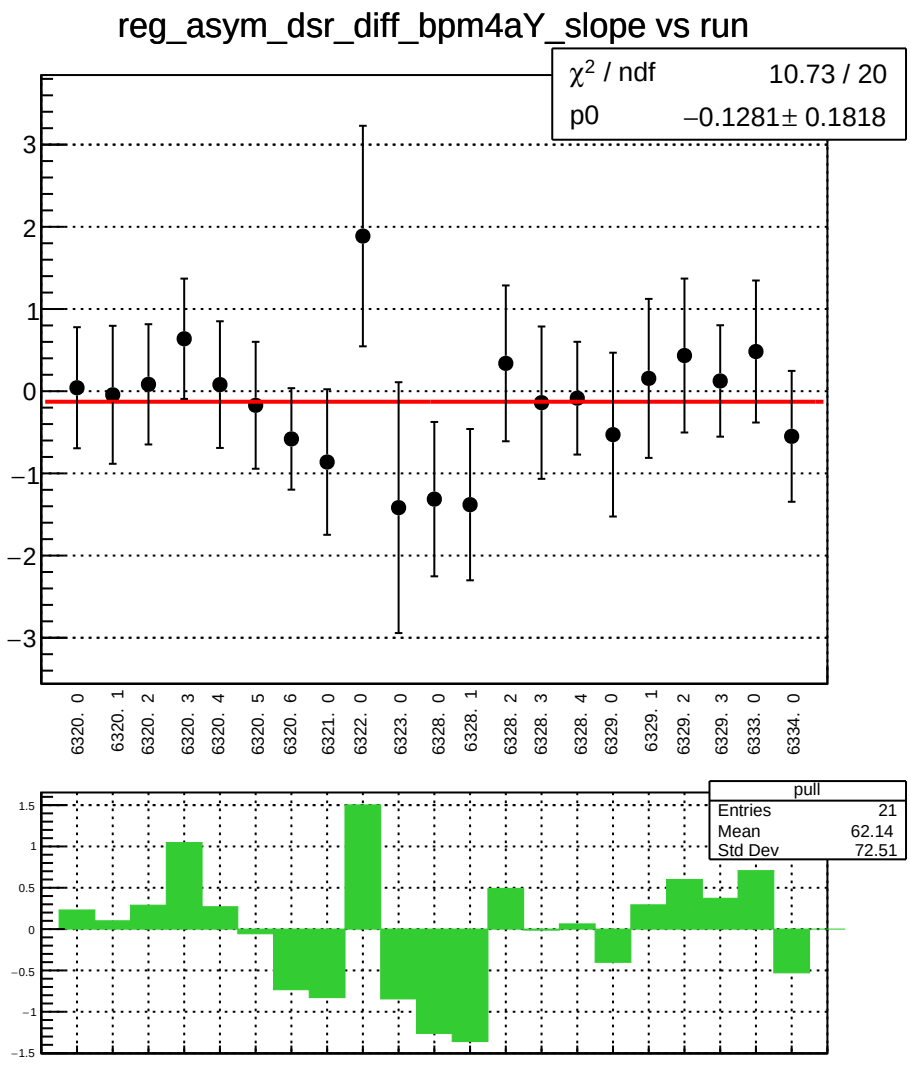

pull1D
Entries 21
Mean −0.04738
Std Dev 0.927
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

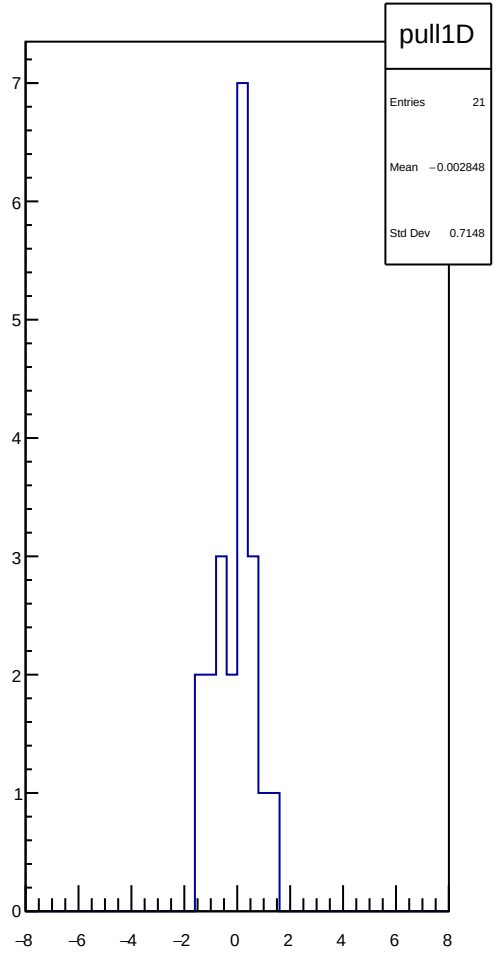

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 21.67 / 20
p0 −0.263 ± 0.1534
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.85
Std Dev 50.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.02355
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

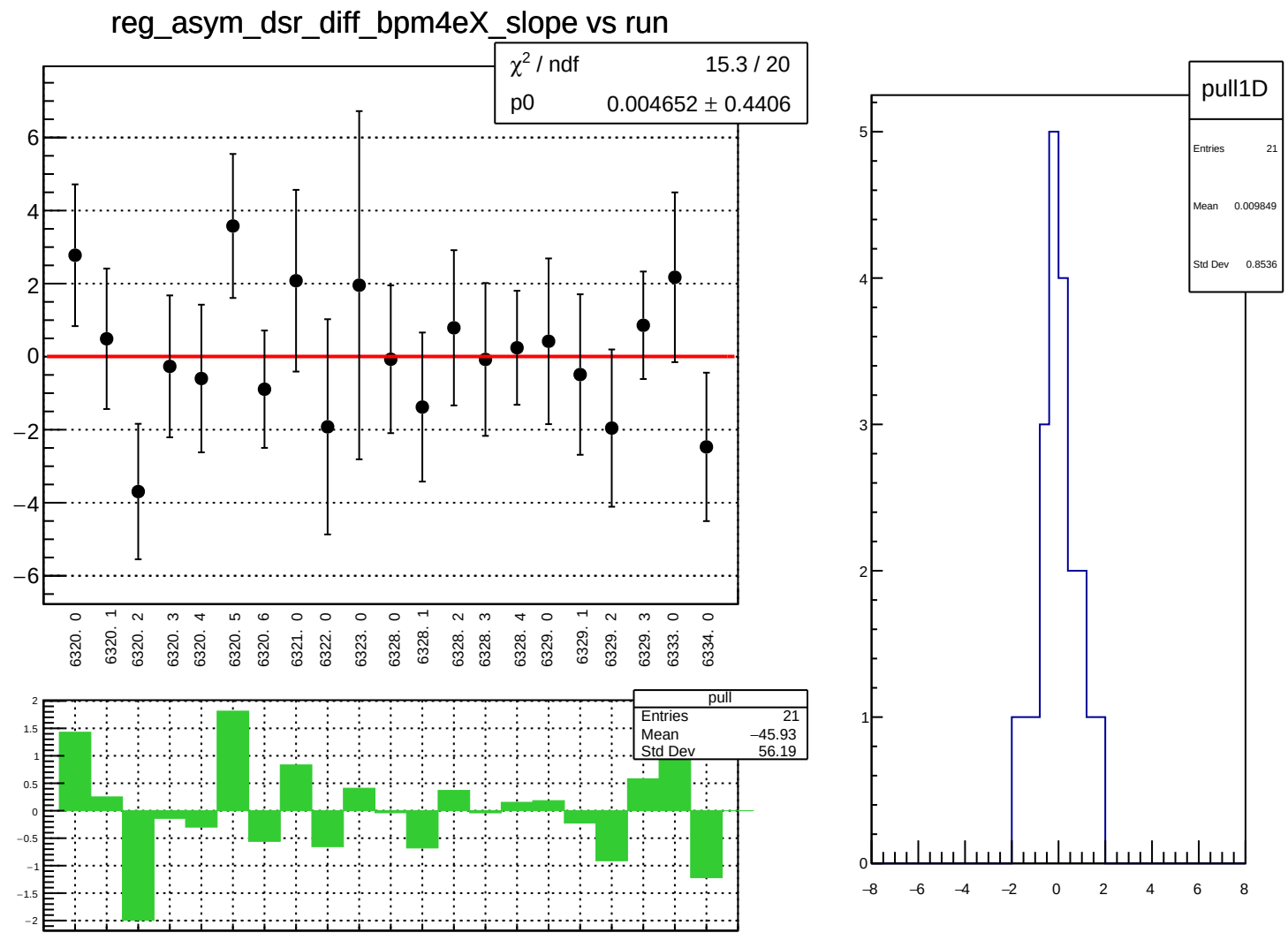

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 15.39 / 20
p0 −0.03238 ± 0.008552
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 15.35
Std Dev 5.502
1.5
1
0.5
0
−0.5
−1
−1.5
−2

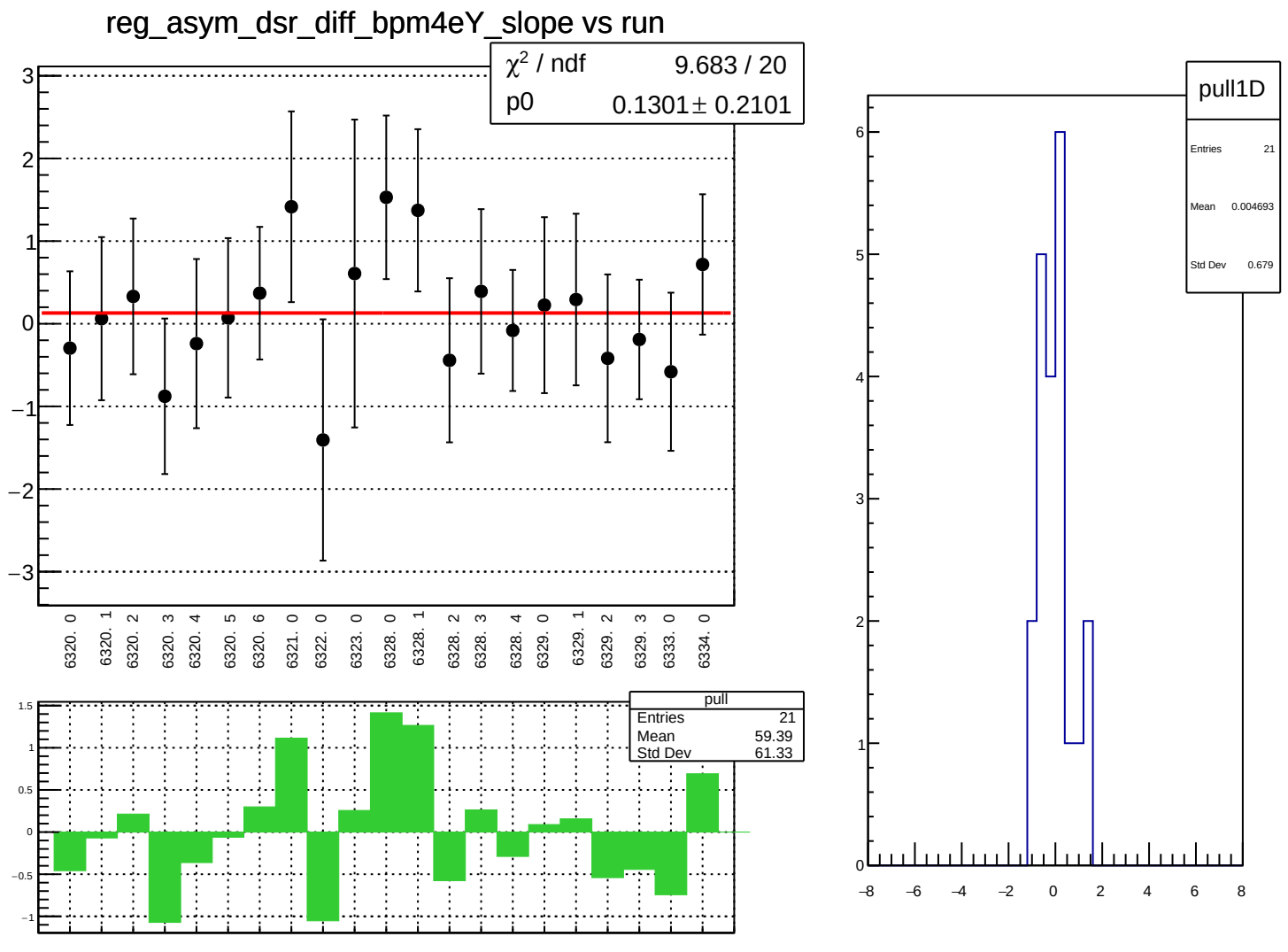

pull1D
Entries 21
Mean −0.03176
Std Dev 0.8554
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

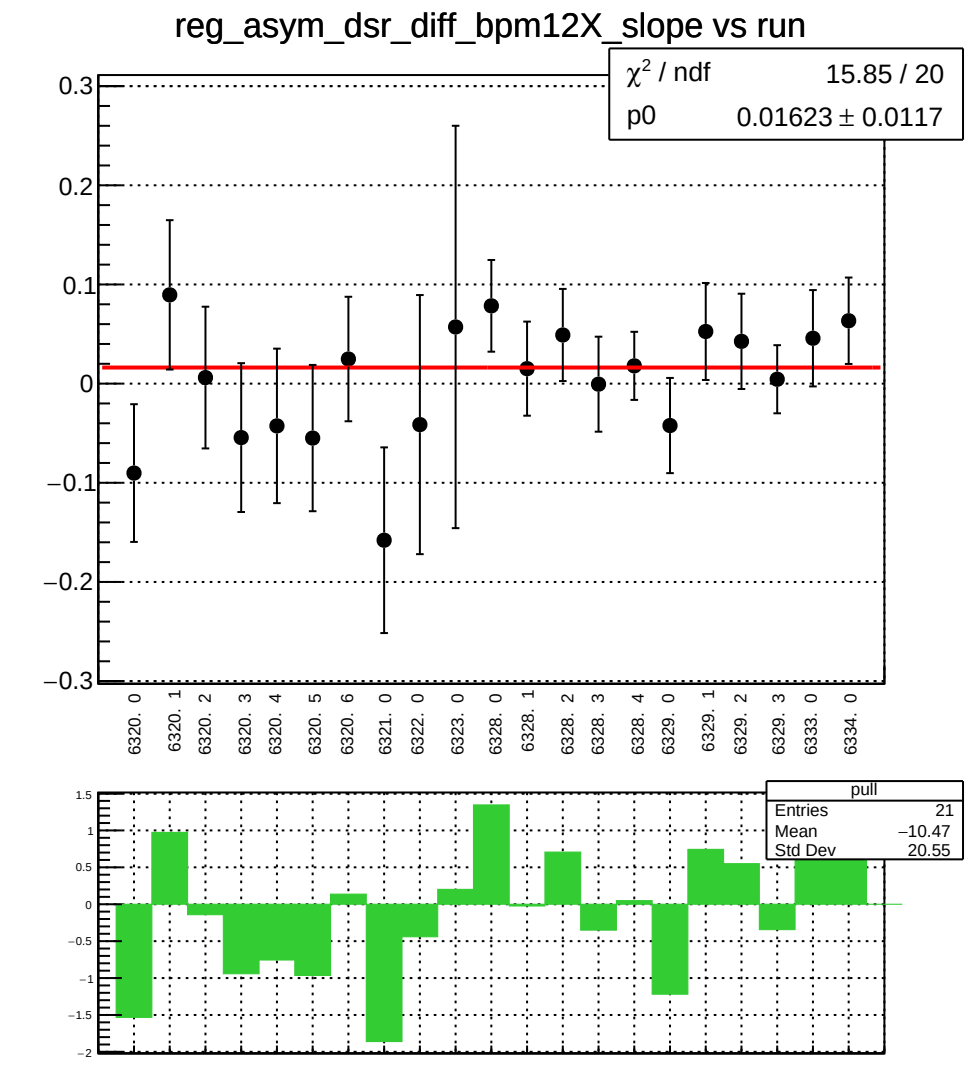

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 15.3 / 20
p0 −0.02145 ± 0.4059
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.48
Std Dev 38.52
pull1D
Entries 21
Mean −0.01389
Std Dev 0.8533

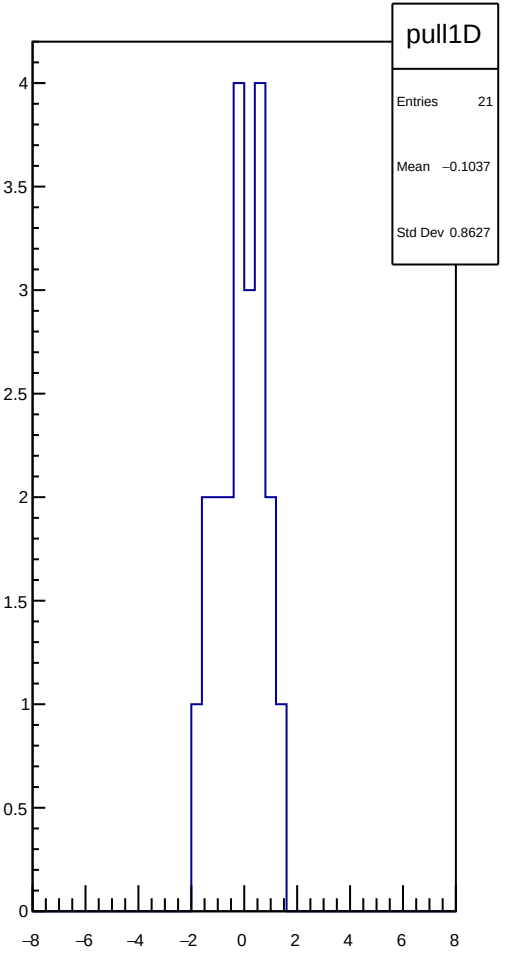

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 10.73 / 20
p0 −0.1281± 0.1818
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 62.14
Std Dev 72.51

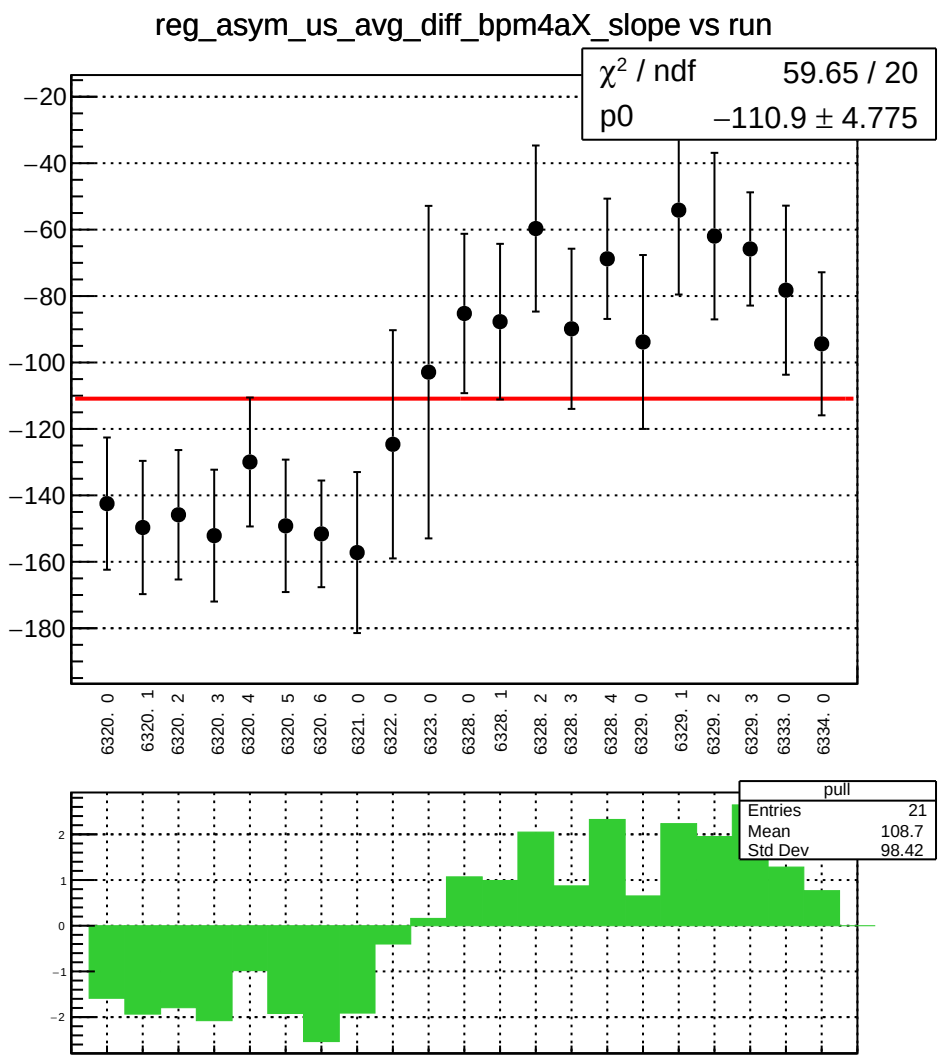

pull1D
Entries 21
Mean −0.002848
Std Dev 0.7148

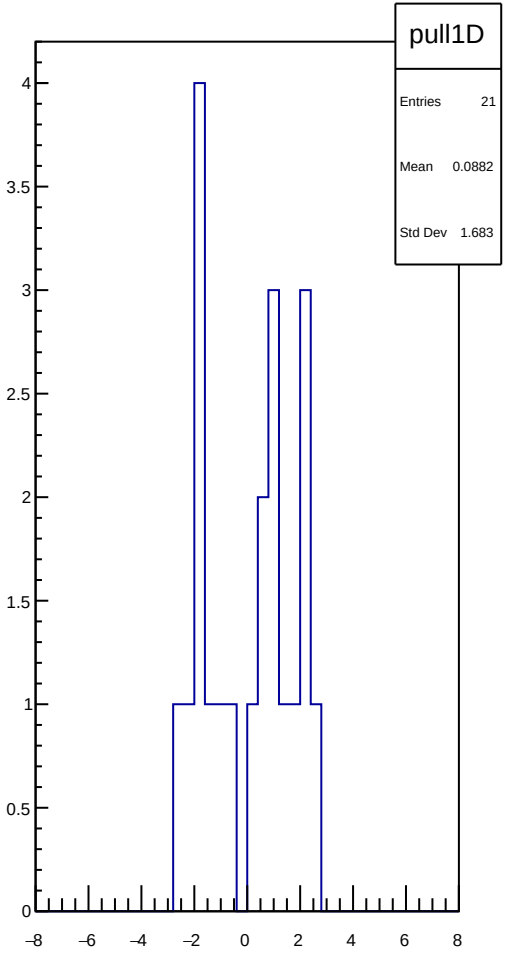

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 15.3 / 20
p0 0.004652 ± 0.4406
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −45.93
Std Dev 56.19
pull1D
Entries 21
Mean 0.009849
Std Dev 0.8536

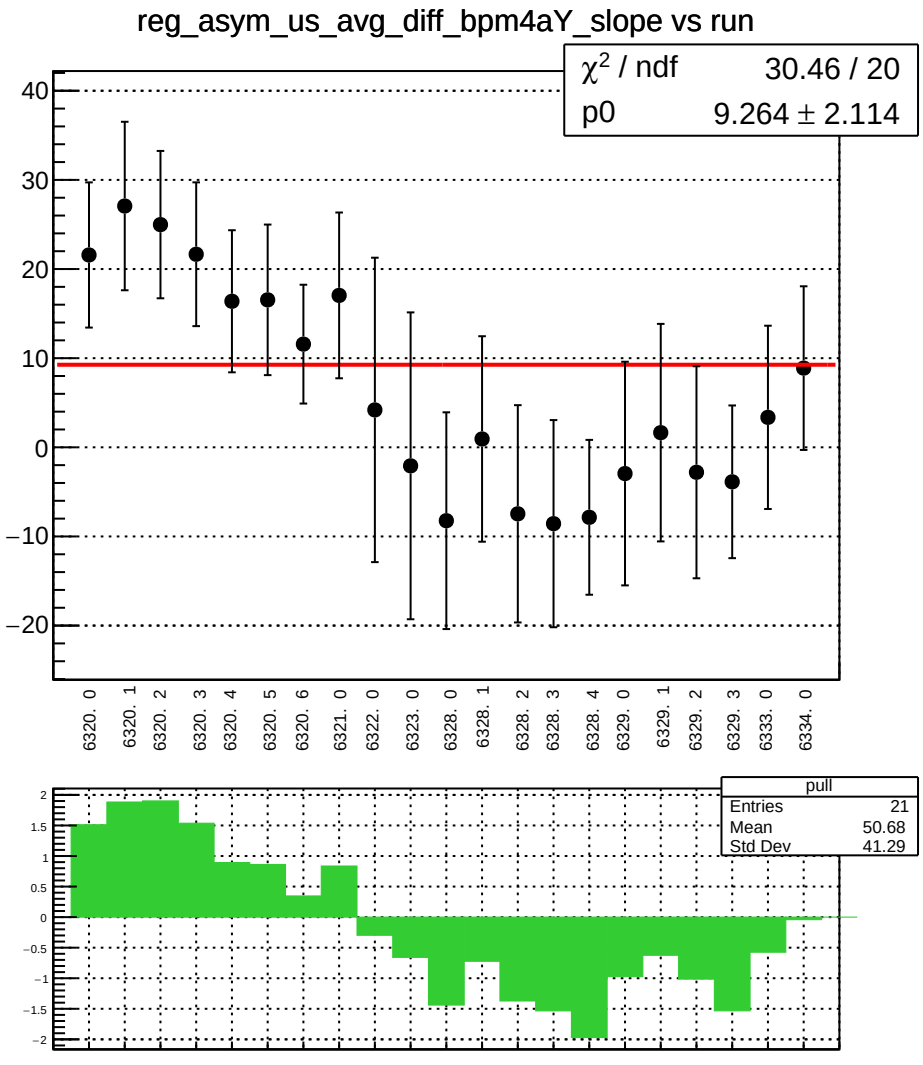

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 9.683 / 20
p0 0.1301± 0.2101
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.39
Std Dev 61.33
pull1D
Entries 21
Mean 0.004693
Std Dev 0.679

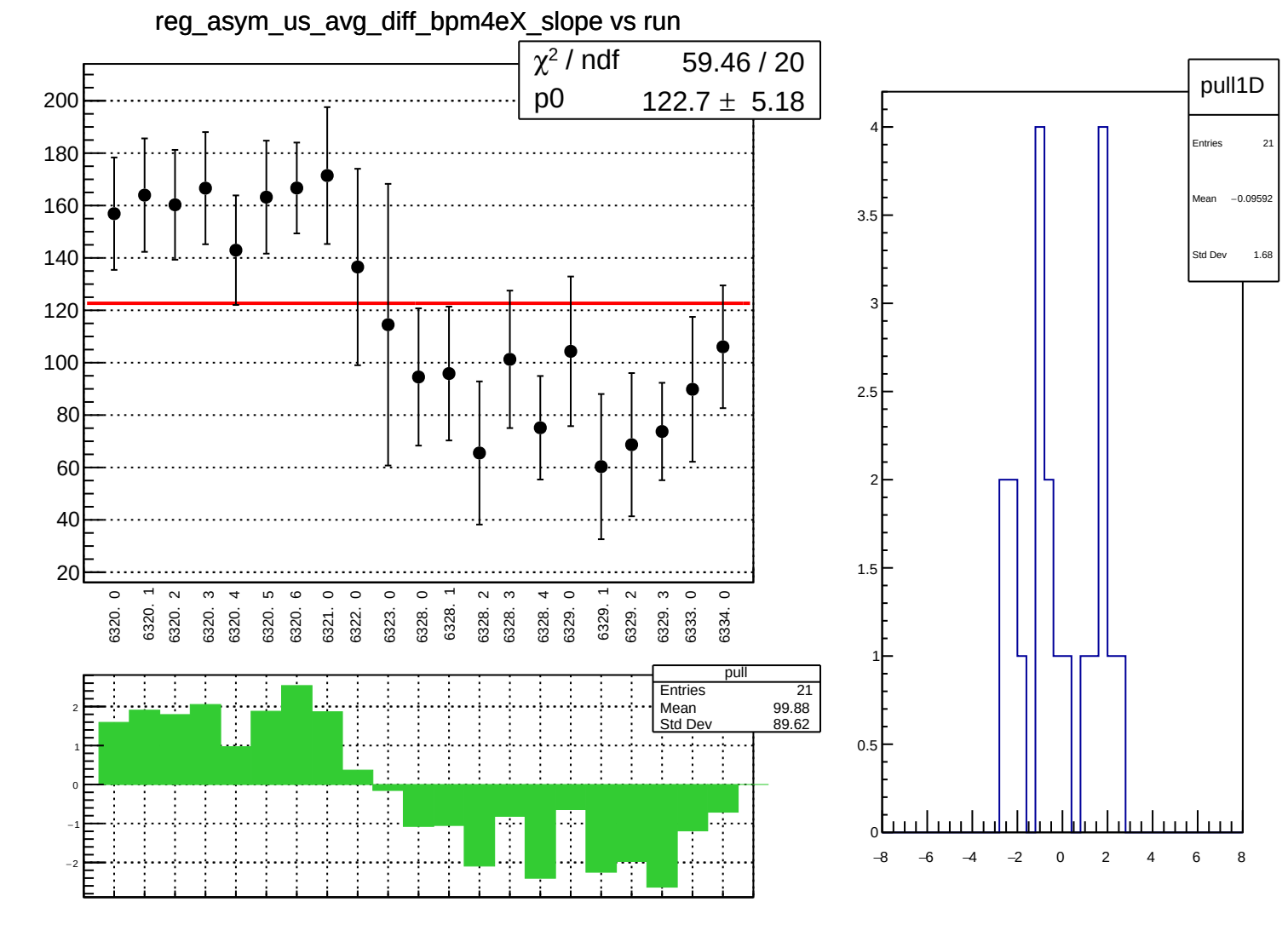

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 15.85 / 20
p0 0.01623 ± 0.0117
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.47
Std Dev 20.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

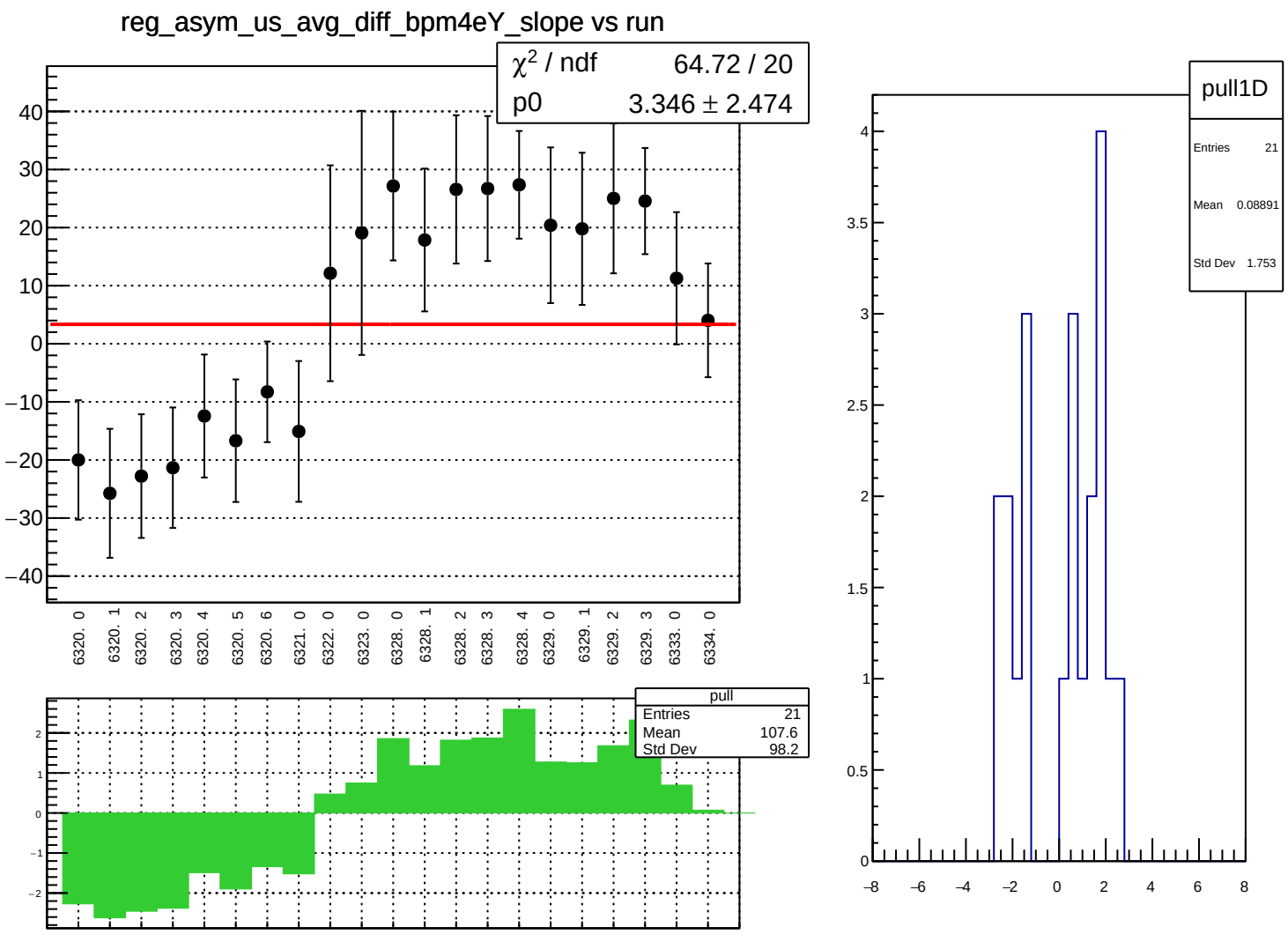

pull1D
Entries 21
Mean −0.1037
Std Dev 0.8627
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

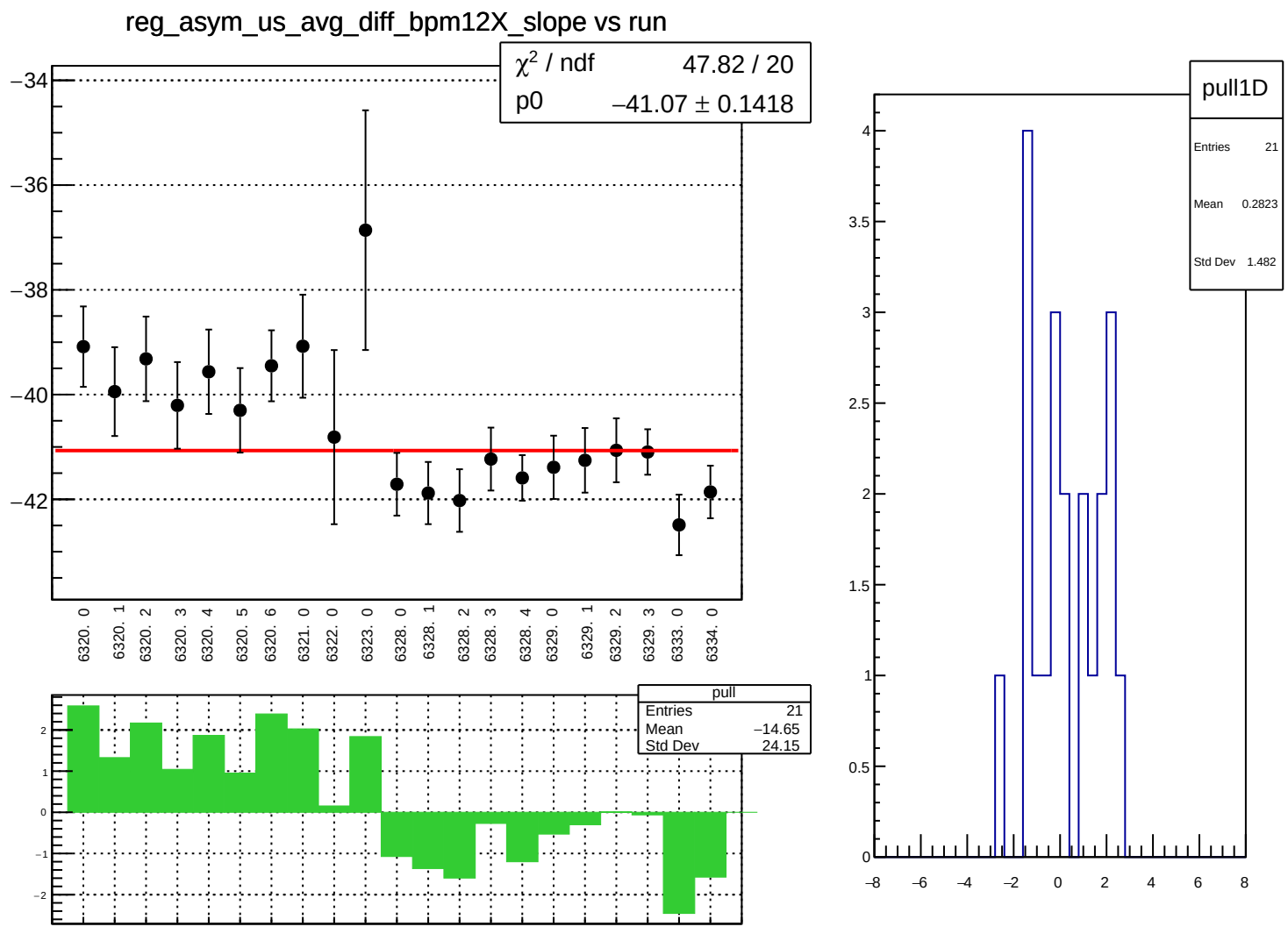

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 59.65 / 20
p0 −110.9 ± 4.775
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 108.7
Std Dev 98.42
2
1
0
−1
−2

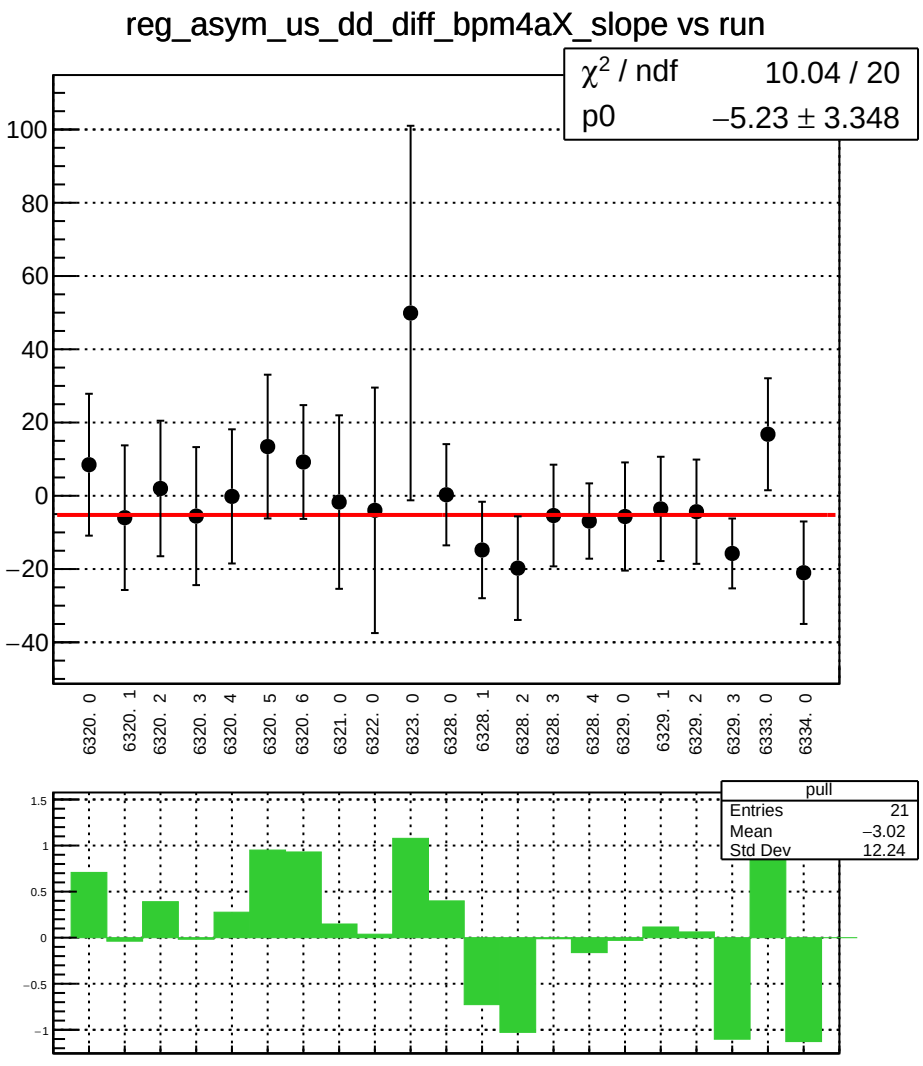

pull1D
Entries 21
Mean 0.0882
Std Dev 1.683
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

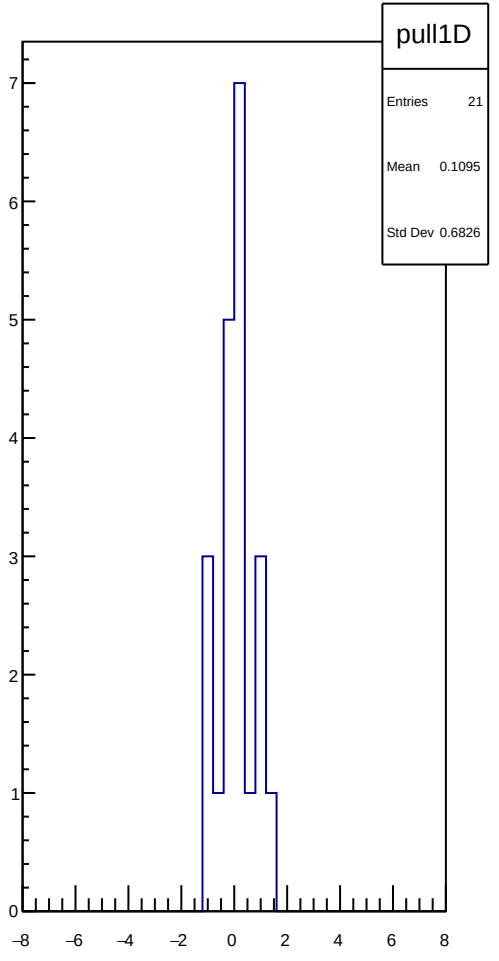

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.46 / 20
p0 9.264 ± 2.114
40
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 50.68
Std Dev 41.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1421
Std Dev 1.196
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

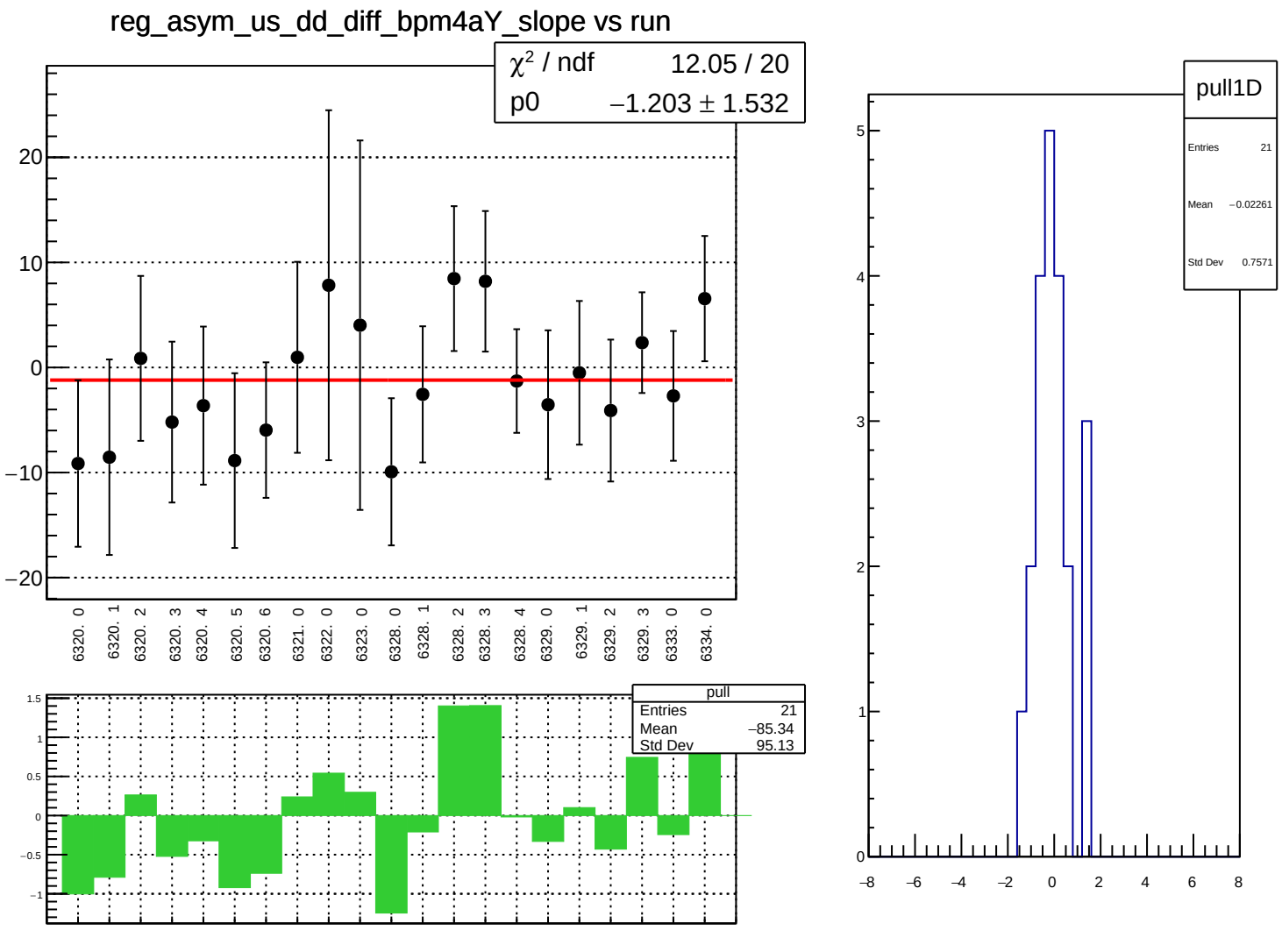

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.46 / 20
p0 122.7 ± 5.18
200
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 99.88
Std Dev 89.62
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.09592
Std Dev 1.68
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

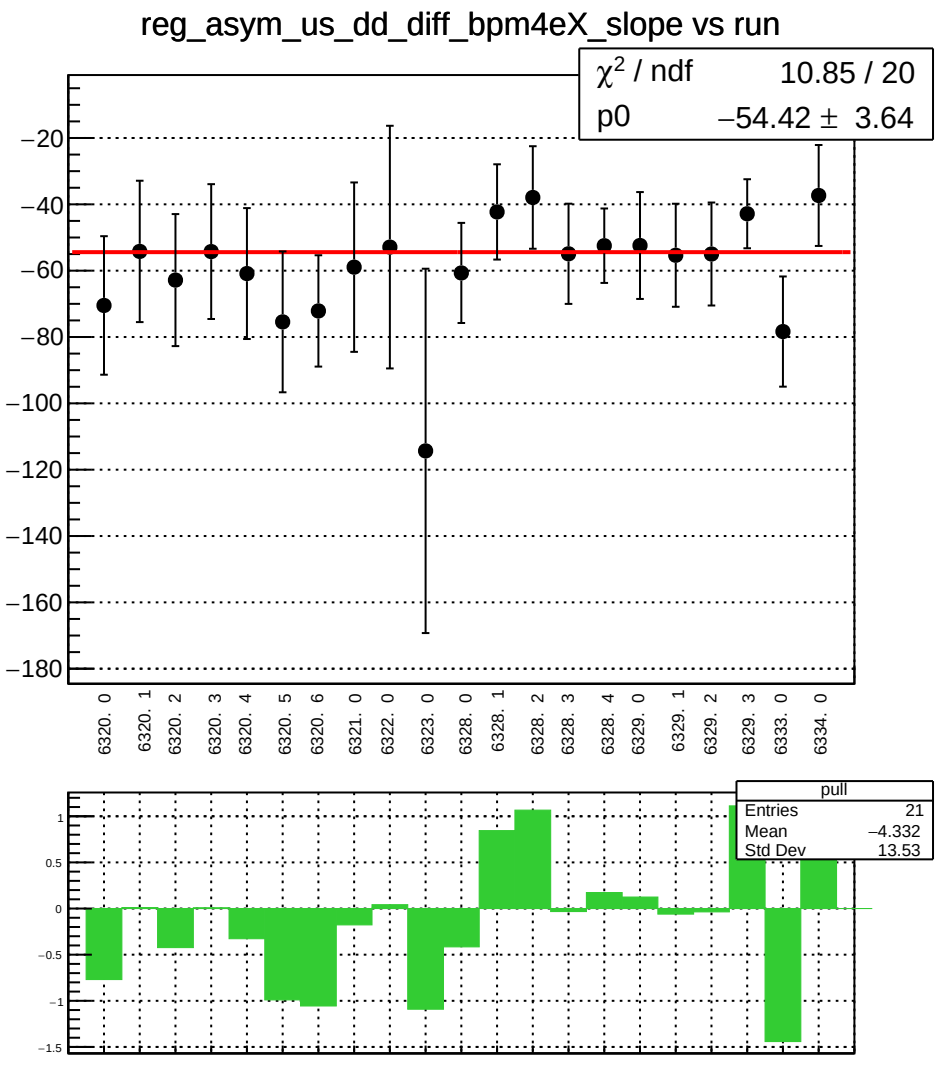

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.72 / 20
p0 3.346 ± 2.474
40
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 107.6
Std Dev 98.2
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.08891
Std Dev 1.753
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

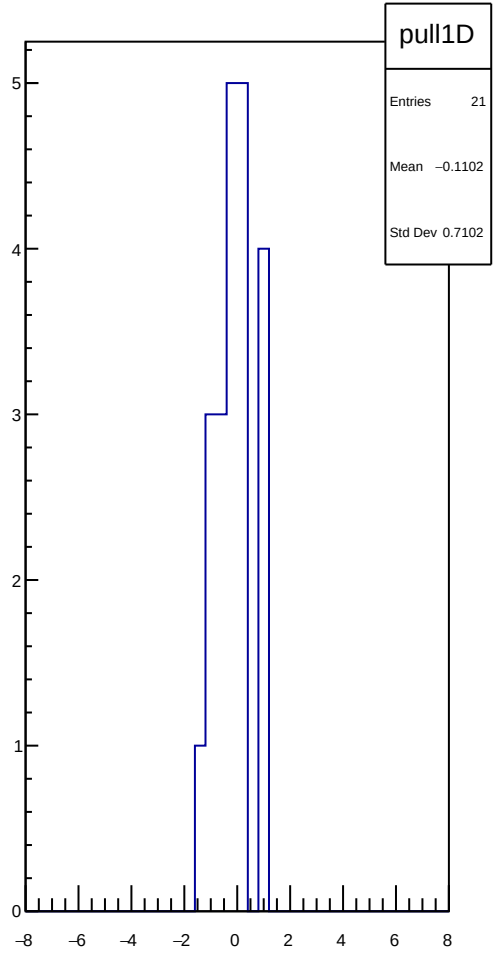

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 47.82 / 20
p0 −41.07 ± 0.1418
−34
−36
−38
−40
−42
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.65
Std Dev 24.15
pull1D
Entries 21
Mean 0.2823
Std Dev 1.482

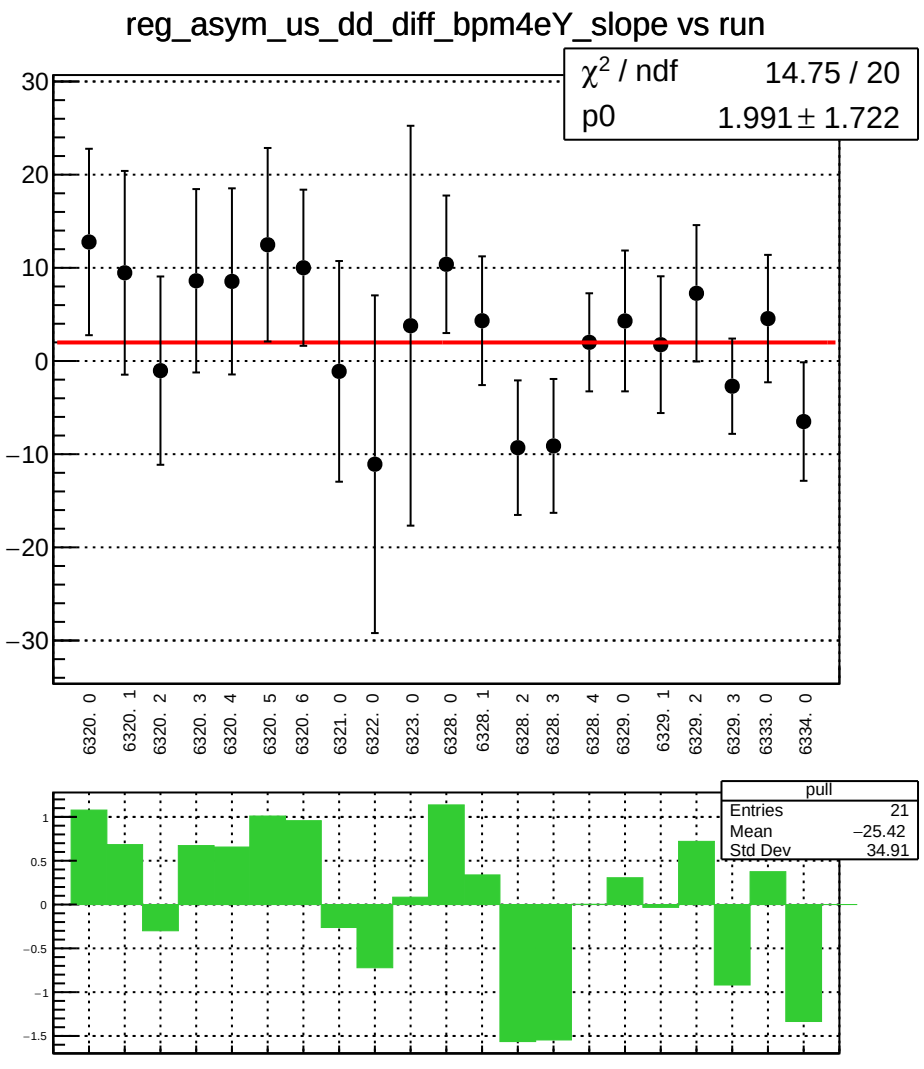

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.04 / 20
p0 −5.23 ± 3.348
100
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.02
Std Dev 12.24
1.5
1
0.5
0
−0.5
−1

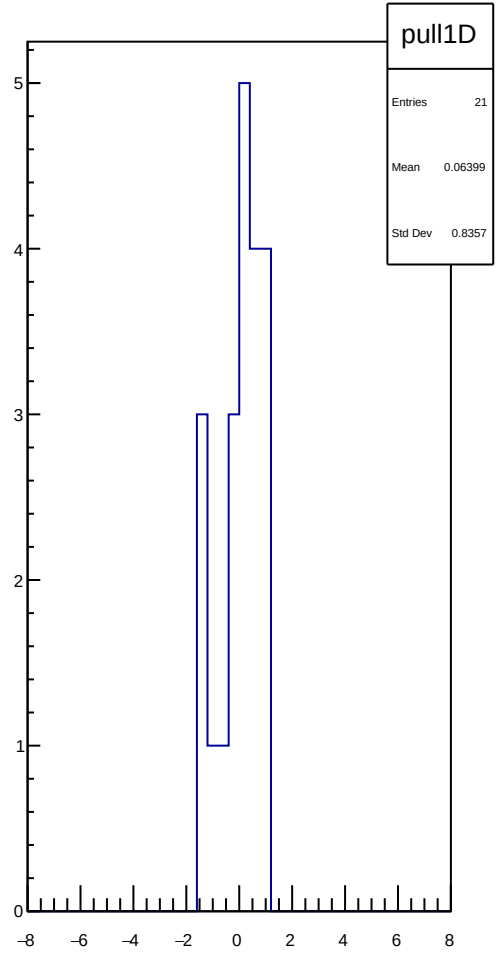

pull1D
Entries 21
Mean 0.1095
Std Dev 0.6826
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

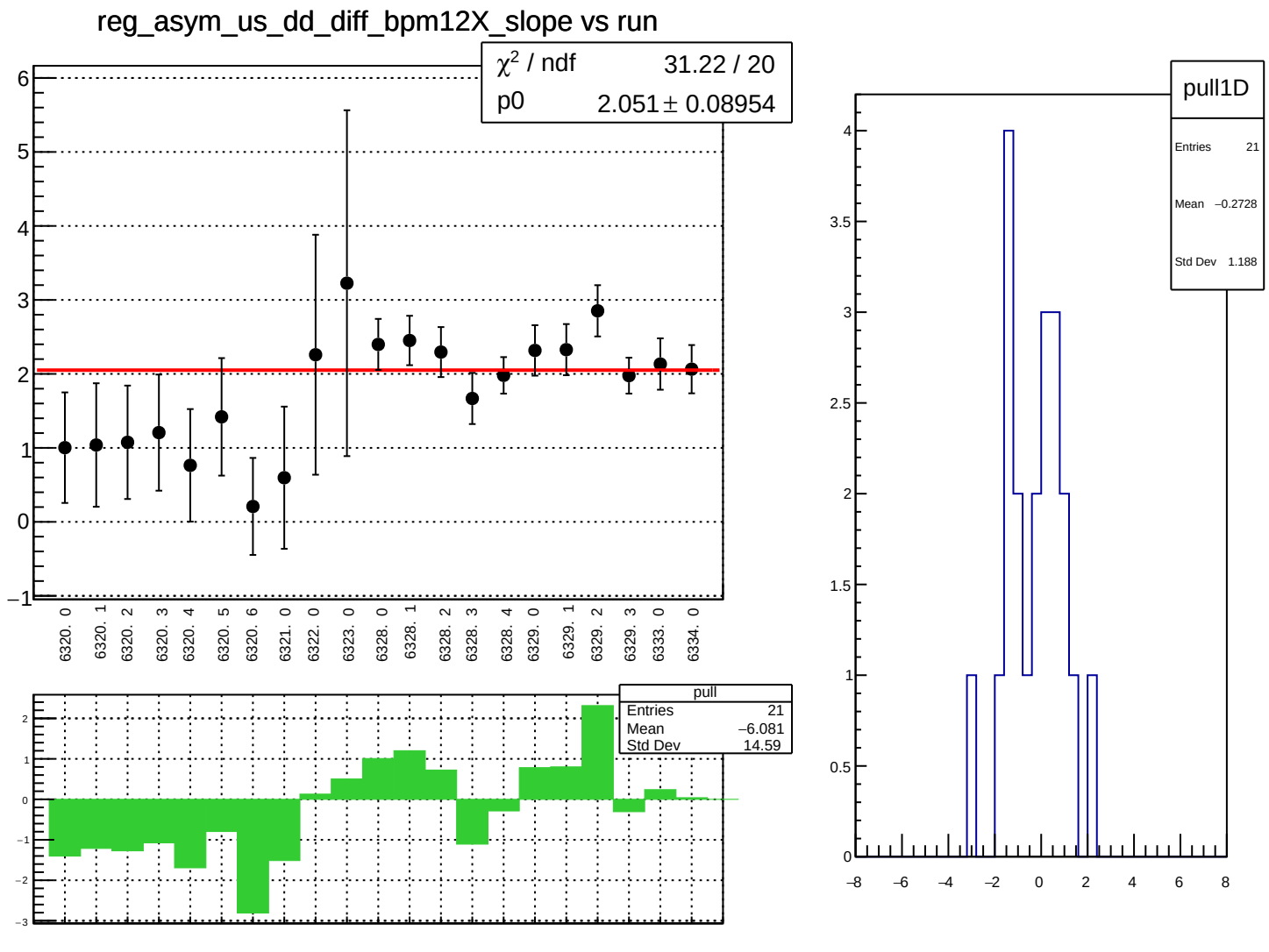

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.05 / 20
p0 −1.203 ± 1.532
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −85.34
Std Dev 95.13
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.02261
Std Dev 0.7571
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

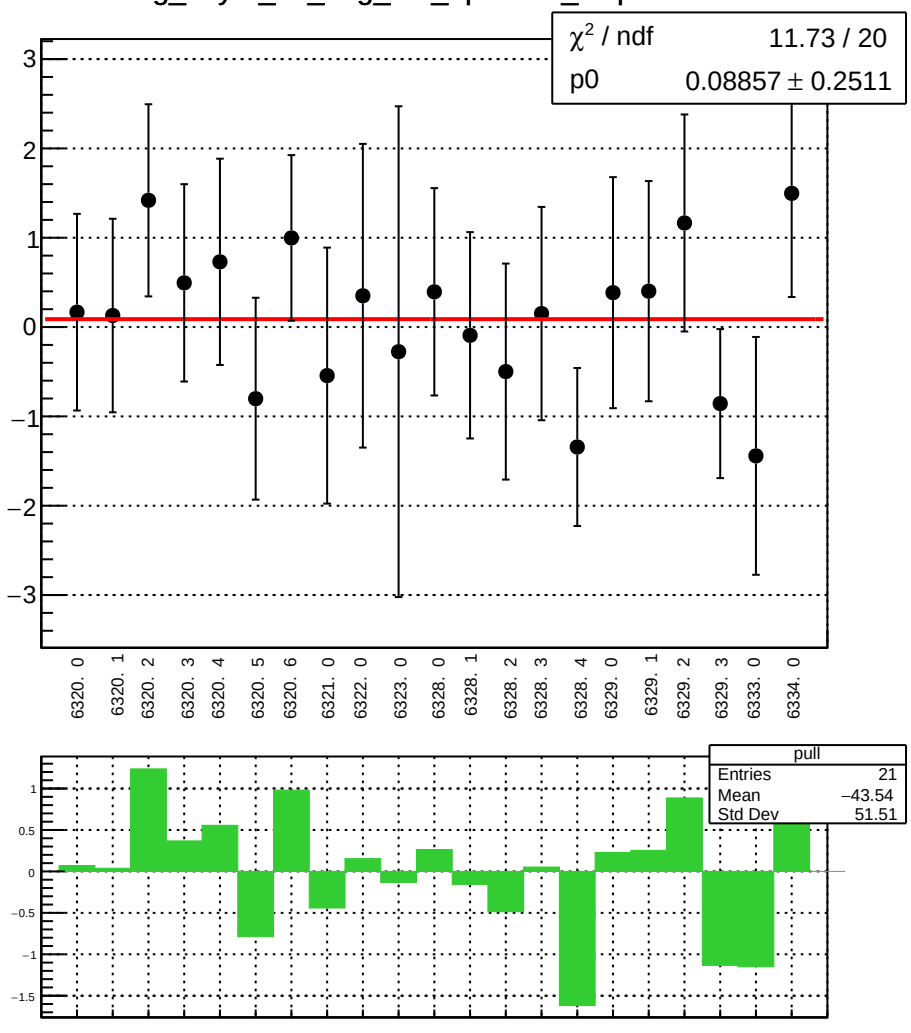

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.85 / 20
p0 −54.42 ± 3.64
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −4.332
Std Dev 13.53
1
0.5
0
−0.5
−1
−1.5

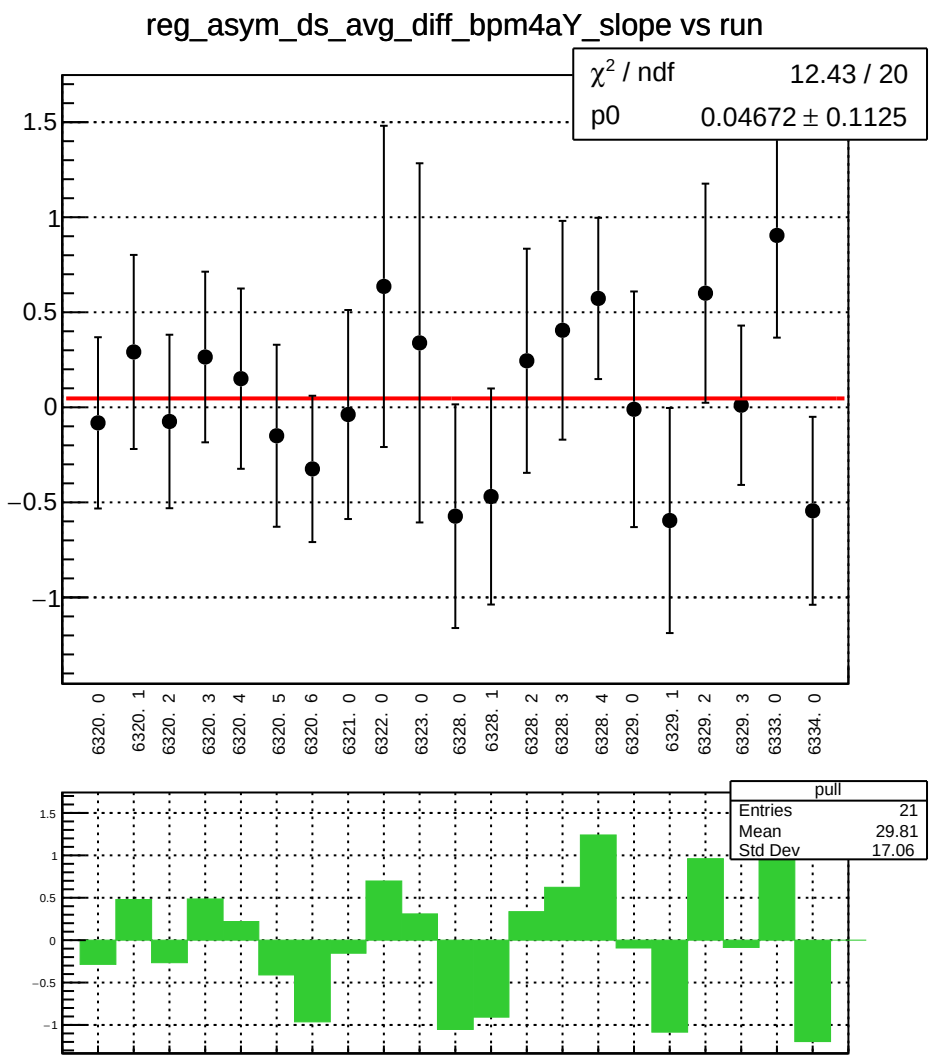

pull1D
Entries 21
Mean −0.1102
Std Dev 0.7102
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

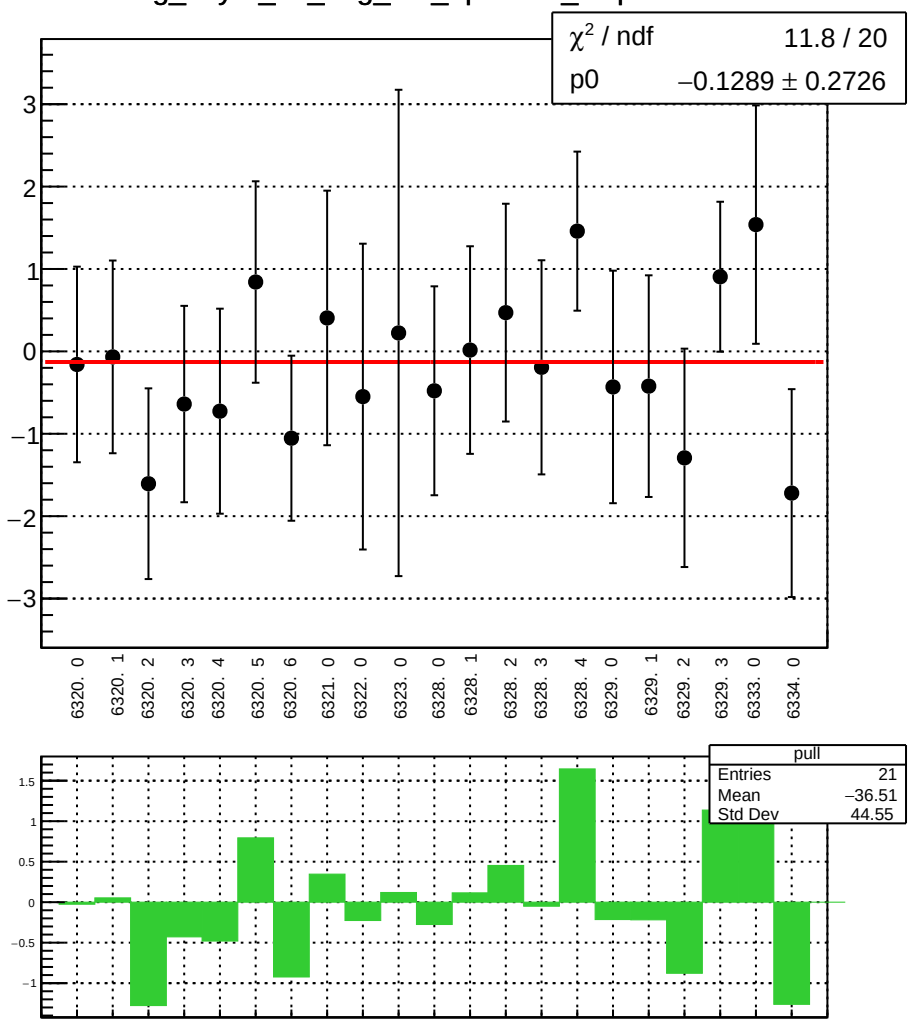

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.75 / 20
p0 1.991 ± 1.722
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.42
Std Dev 34.91
1
0.5
0
−0.5
−1
−1.5

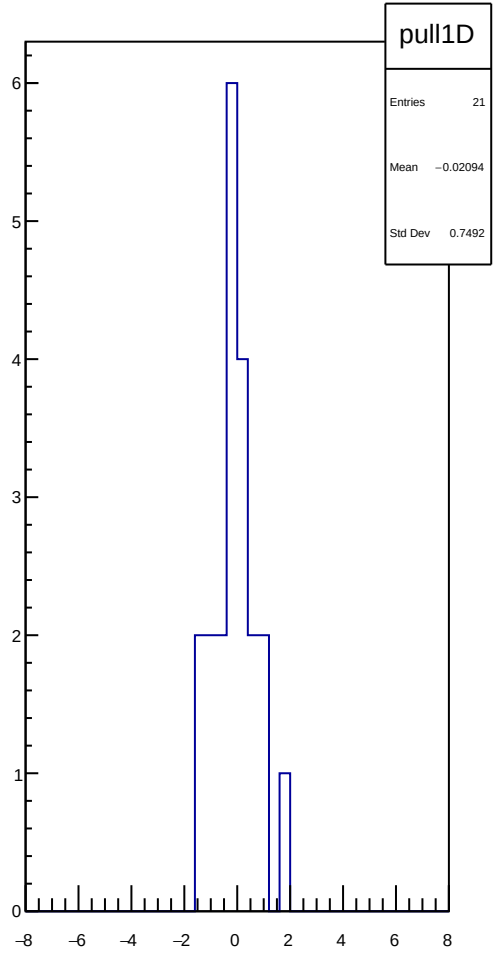

pull1D
Entries 21
Mean 0.06399
Std Dev 0.8357
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

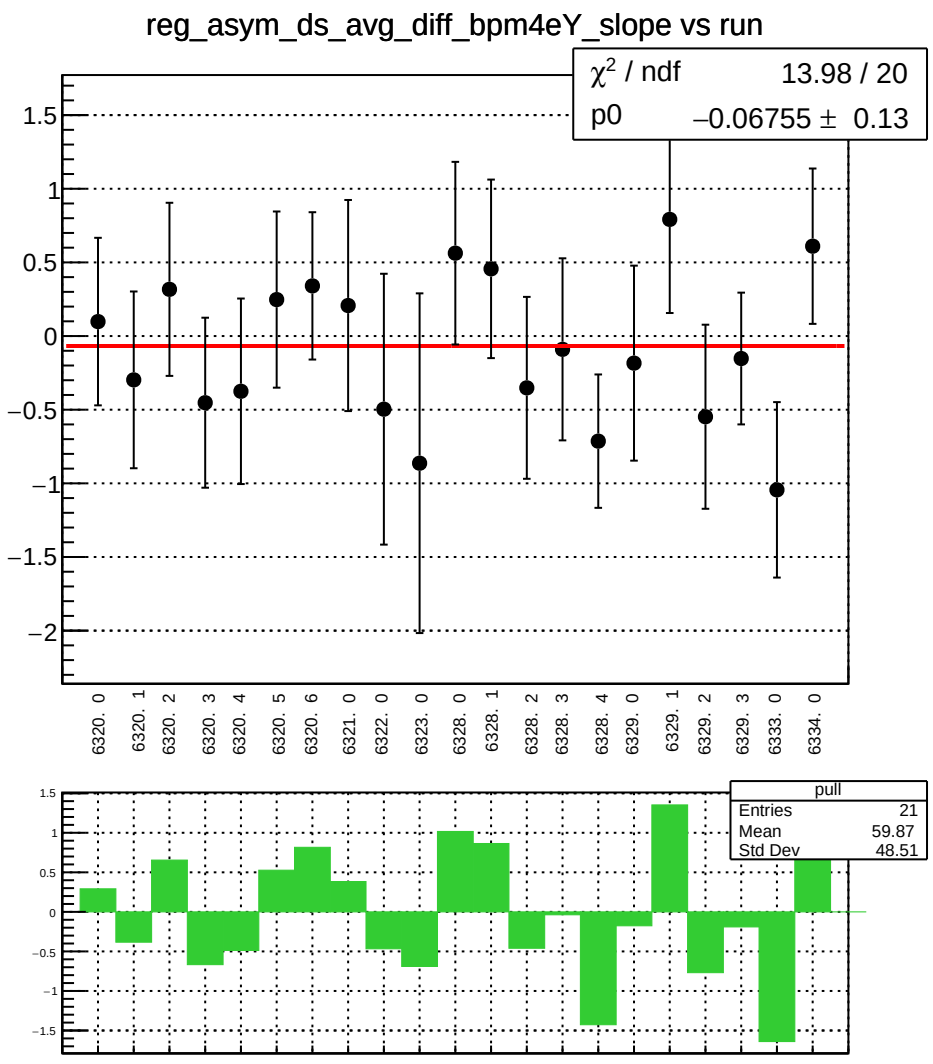

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 31.22 / 20
p0 2.051 ± 0.08954
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.081
Std Dev 14.59
pull1D
Entries 21
Mean −0.2728
Std Dev 1.188

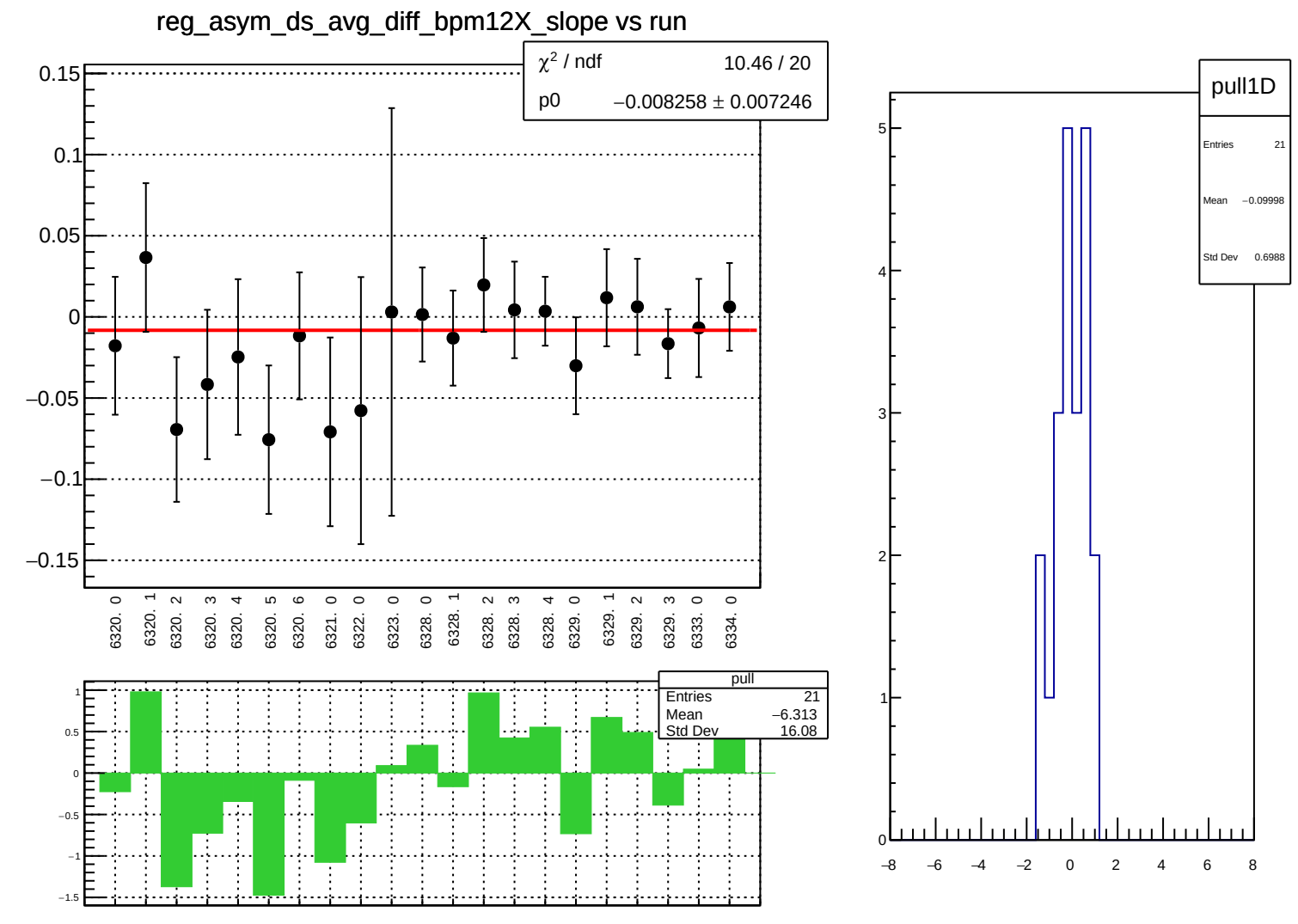

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.73 / 20
p0 0.08857 ± 0.2511
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −43.54
Std Dev 51.51
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.01897
Std Dev 0.7473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

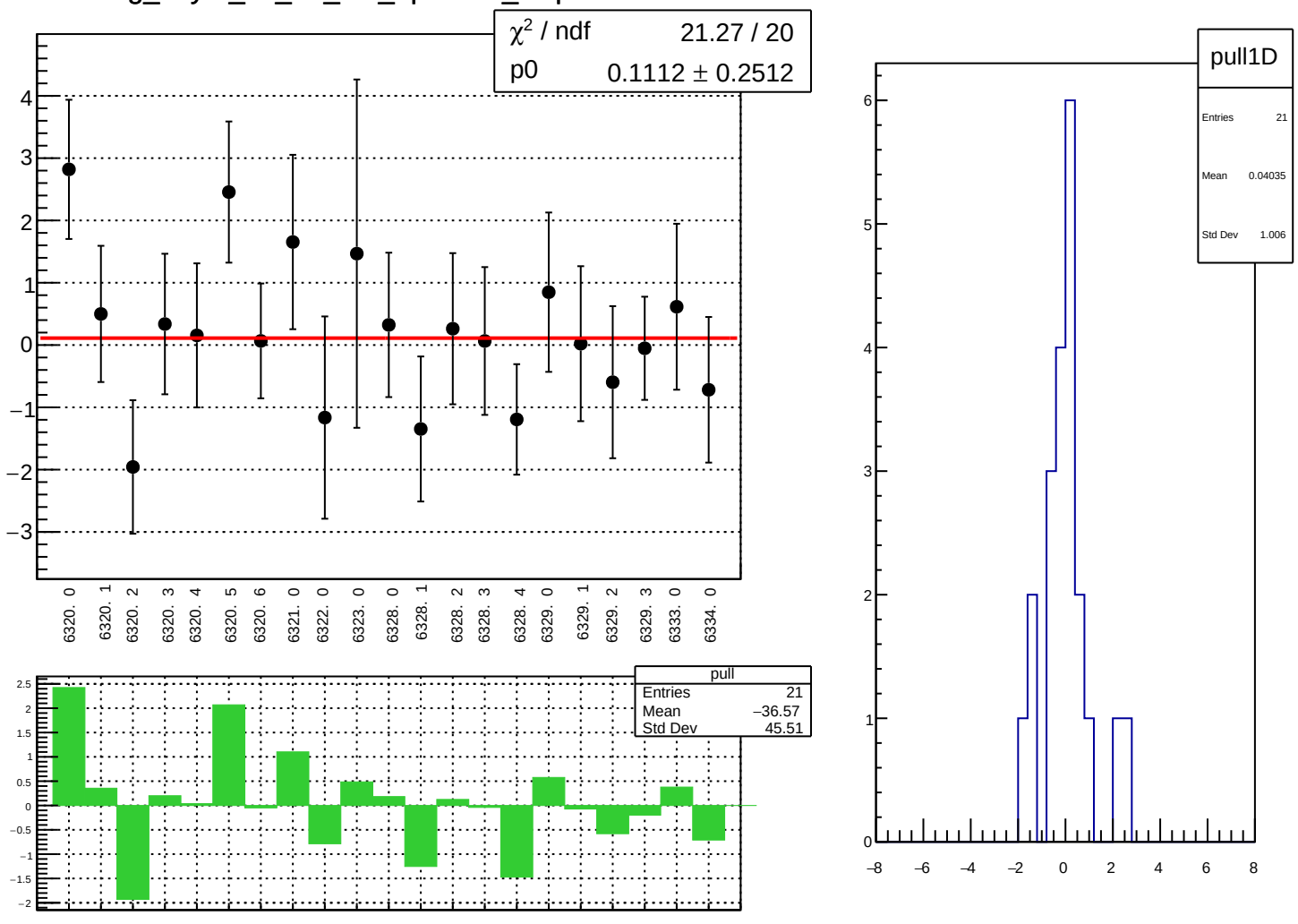

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 20
p0 0.04672 ± 0.1125
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.81
Std Dev 17.06
pull1D
Entries 21
Mean 0.02138
Std Dev 0.769
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

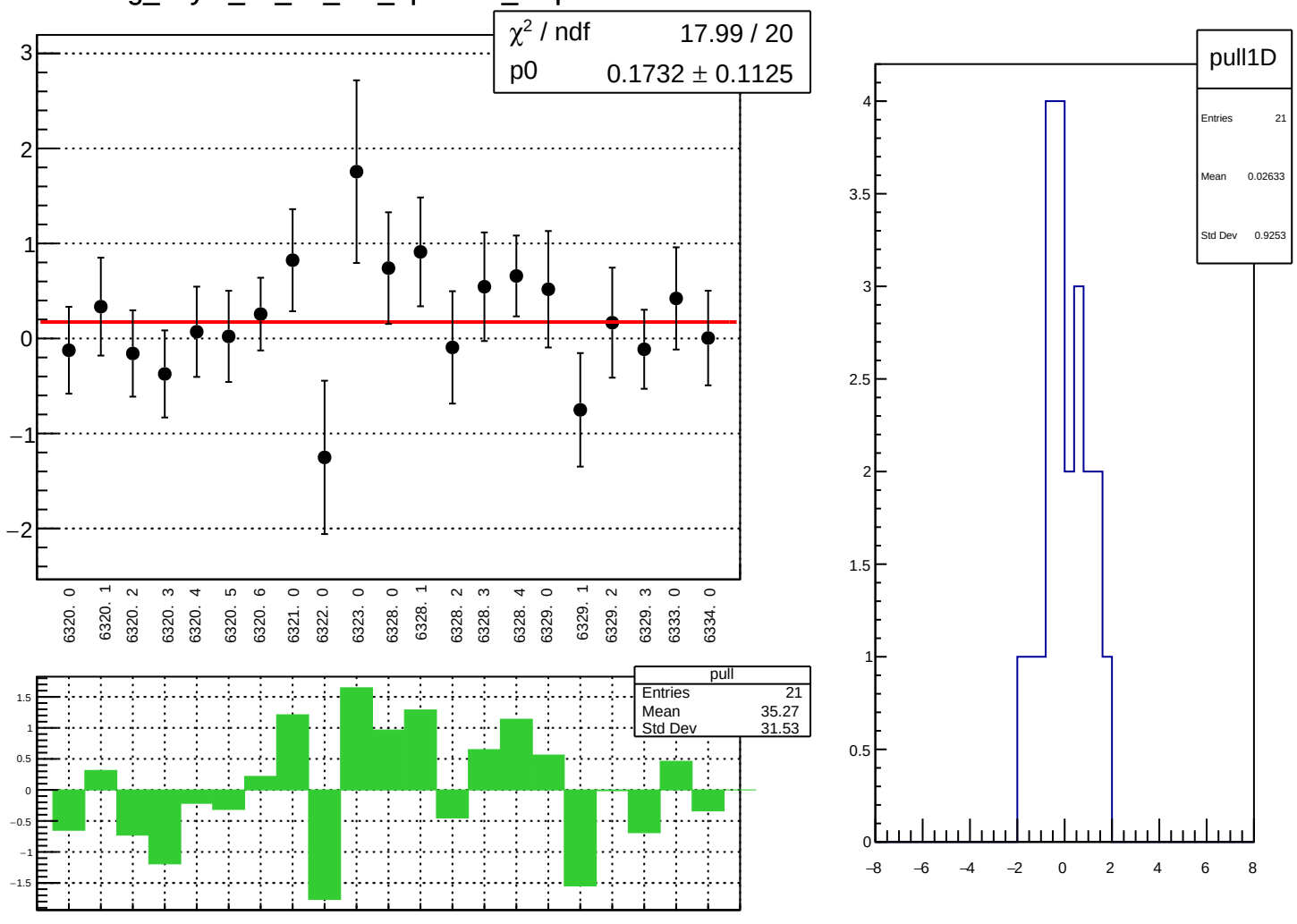

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.8 / 20
p0 −0.1289 ± 0.2726
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −36.51
Std Dev 44.55

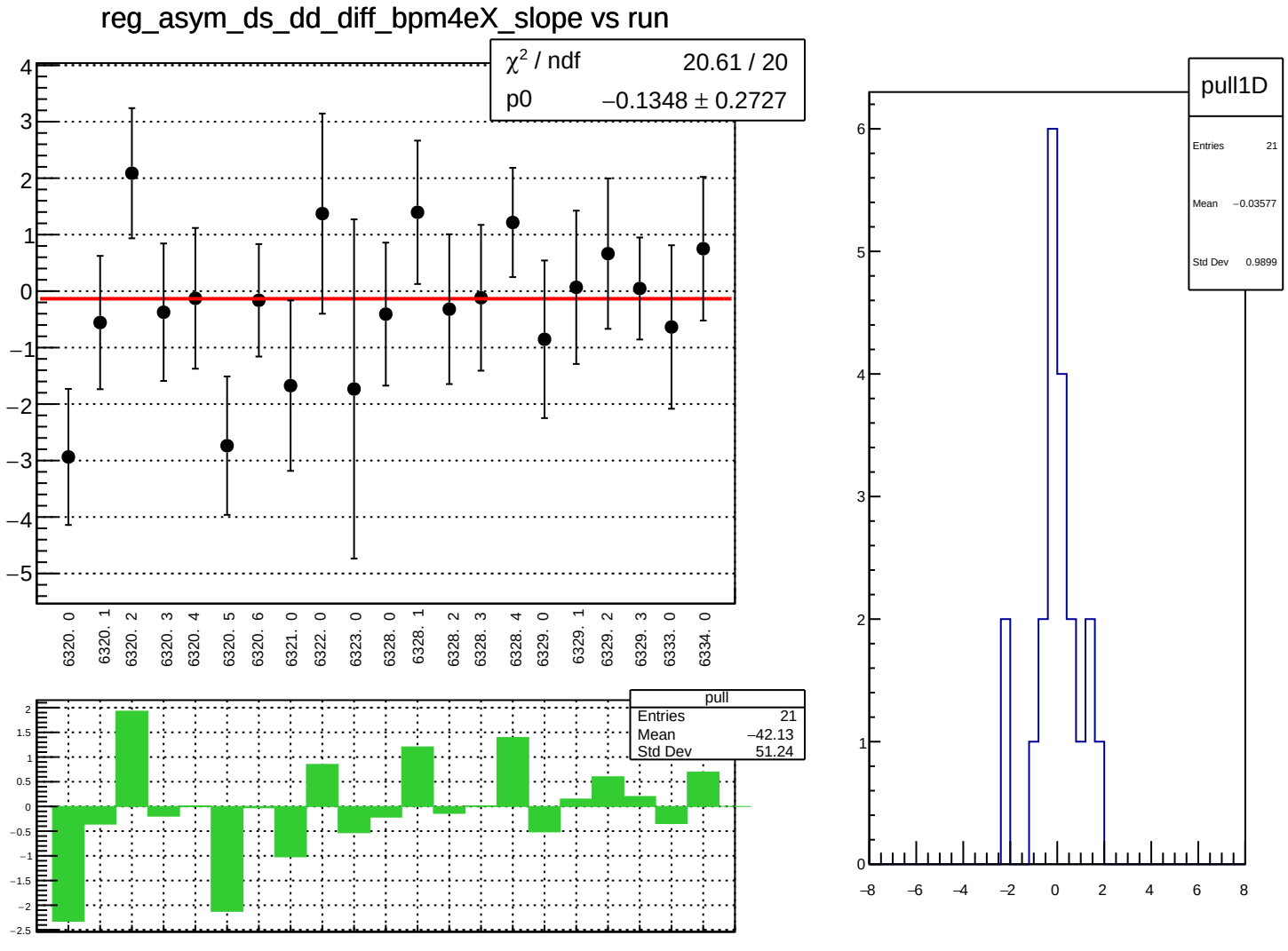

pull1D
Entries 21
Mean −0.02094
Std Dev 0.7492

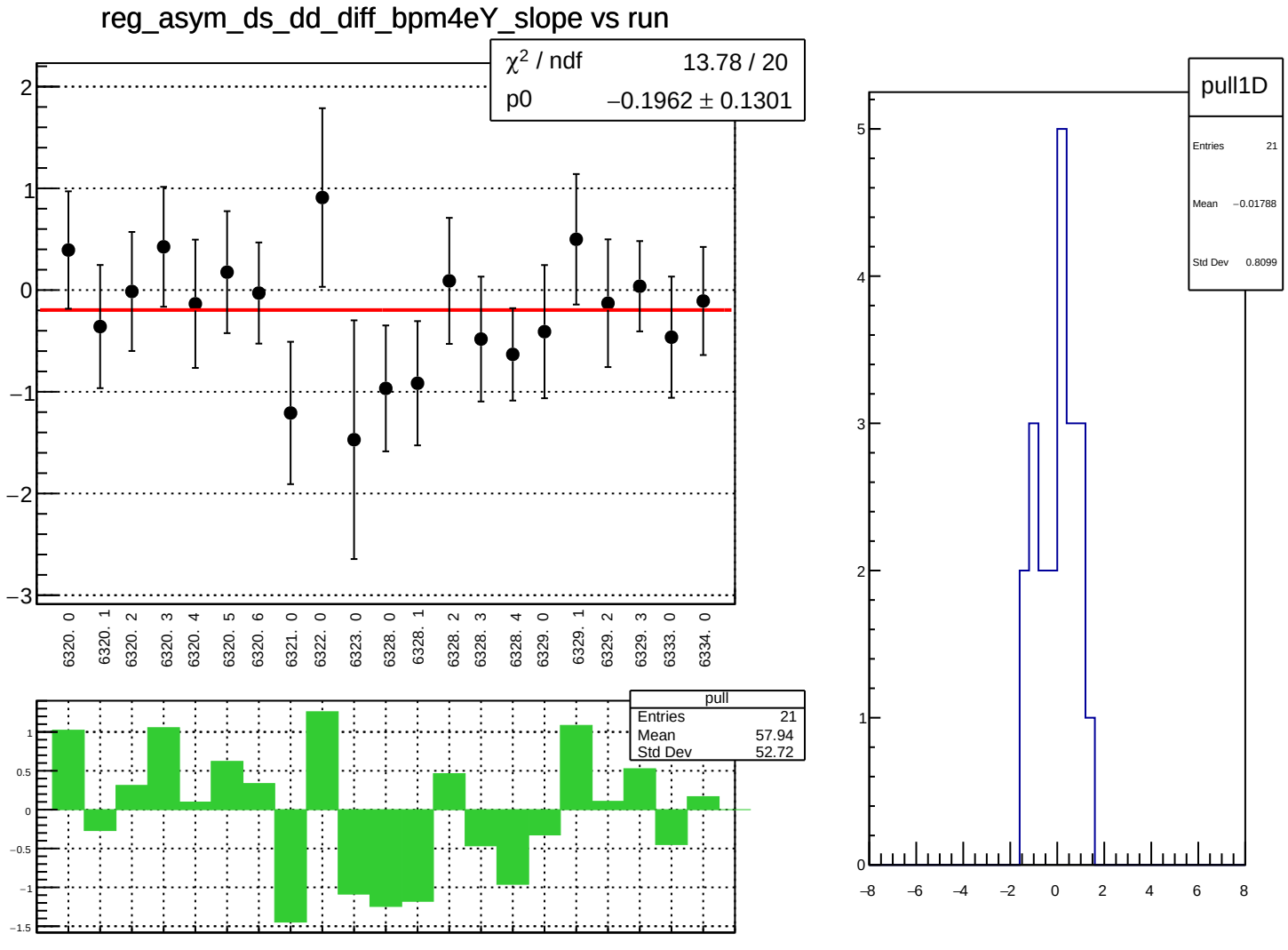

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.98 / 20
p0 −0.06755 ± 0.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.87
Std Dev 48.51
pull1D
Entries 21
Mean −0.009621
Std Dev 0.816
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

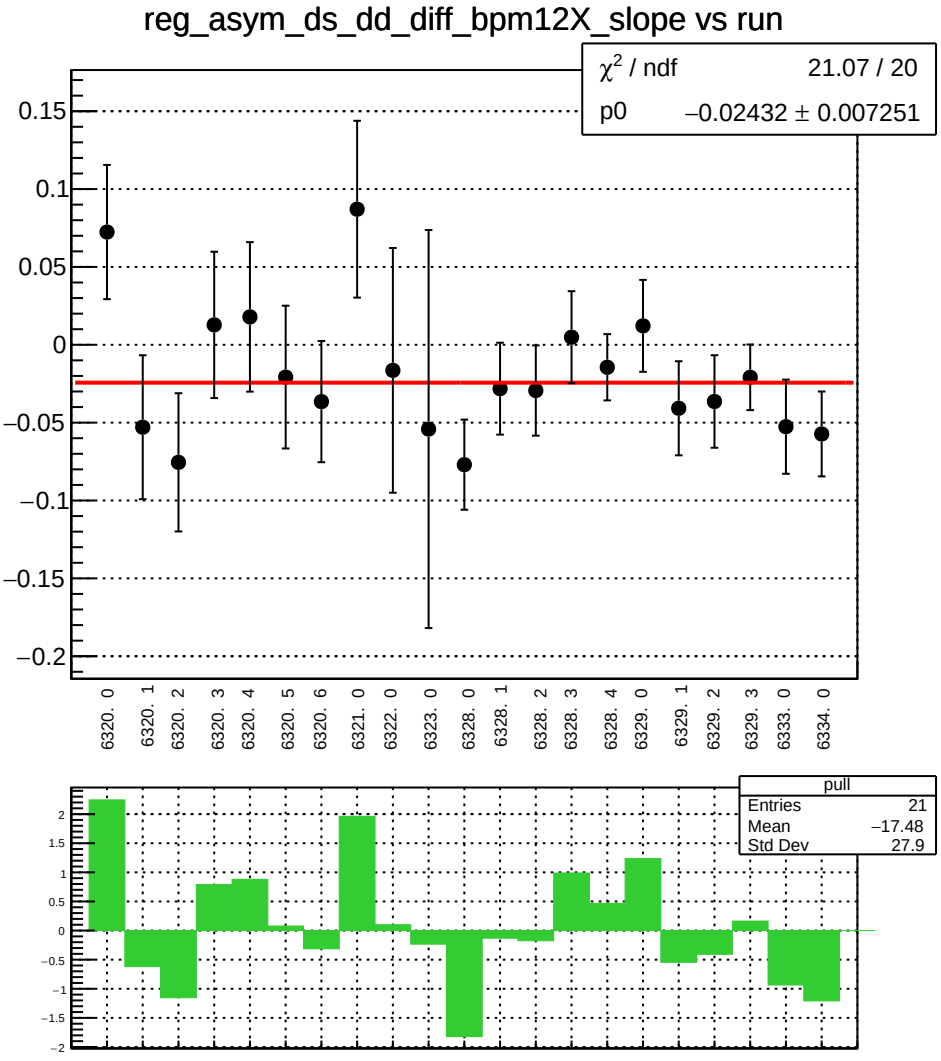

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 10.46 / 20
p0 −0.008258 ± 0.007246
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.313
Std Dev 16.08
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.09998
Std Dev 0.6988
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

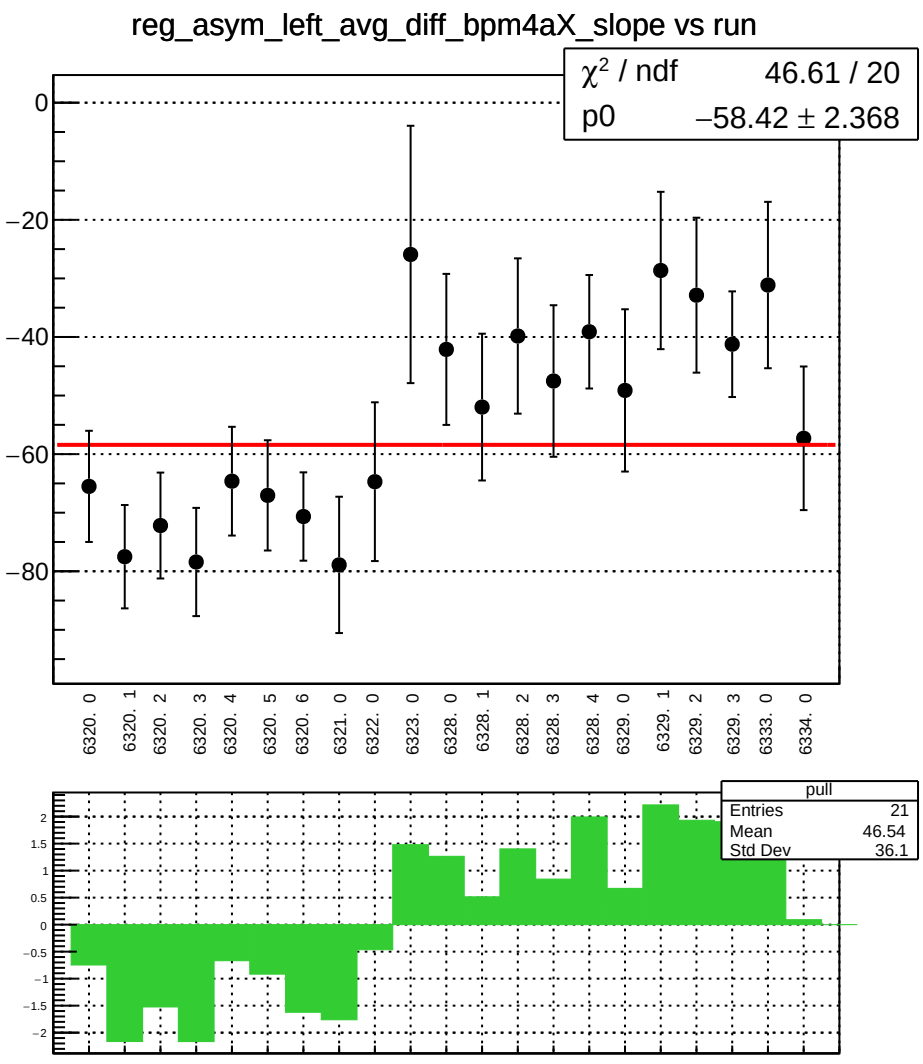

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.27 / 20
p0 0.1112 ± 0.2512
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −36.57
Std Dev 45.51
pull1D
Entries 21
Mean 0.04035
Std Dev 1.006

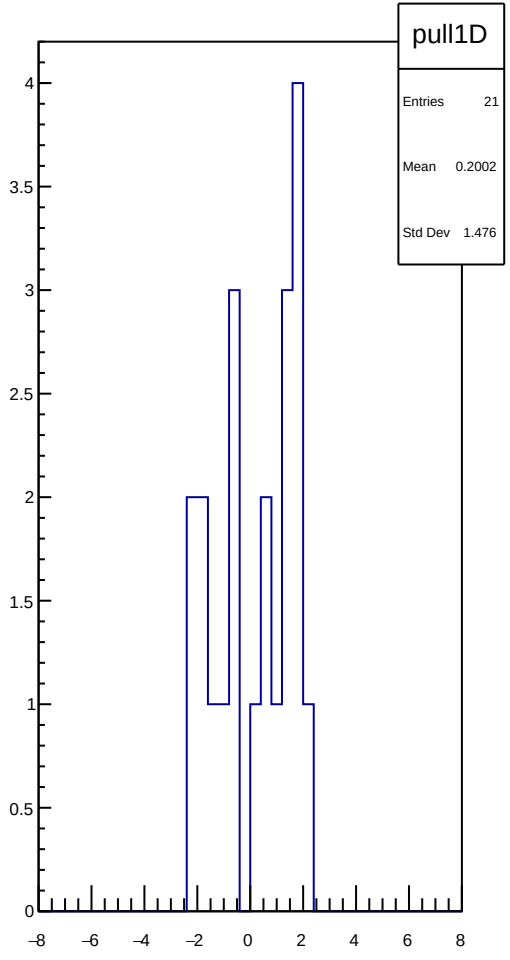

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.99 / 20
p0 0.1732 ± 0.1125
3
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 35.27
Std Dev 31.53
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.02633
Std Dev 0.9253
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

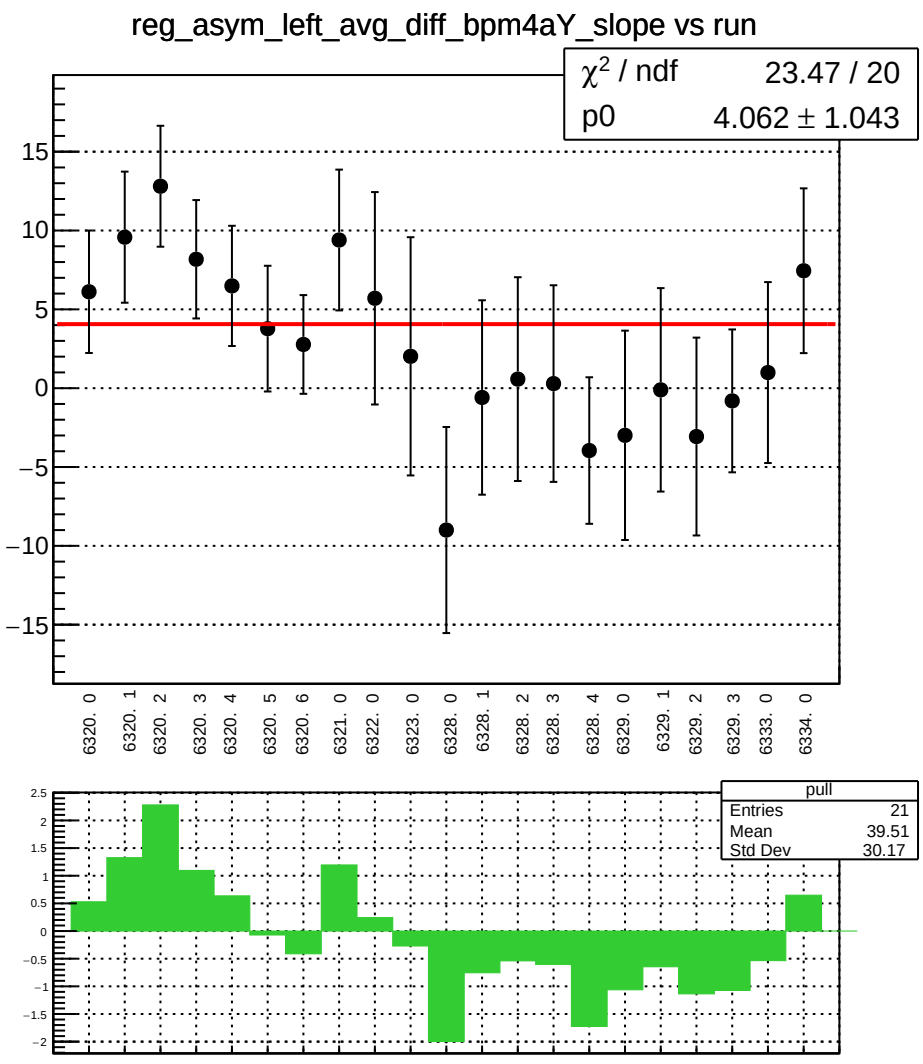

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.61 / 20
p0 −0.1348 ± 0.2727
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −42.13
Std Dev 51.24
pull1D
Entries 21
Mean −0.03577
Std Dev 0.9899

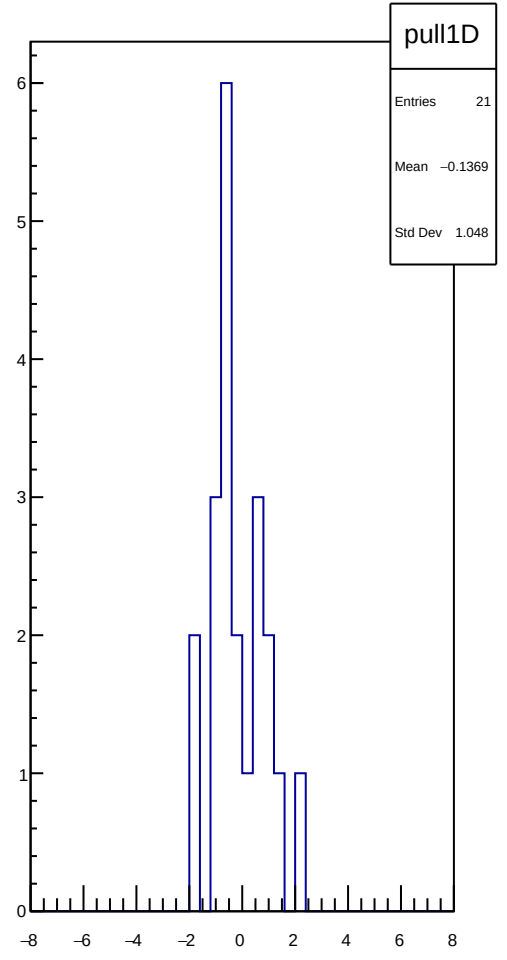

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.78 / 20
p0 −0.1962 ± 0.1301
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.94
Std Dev 52.72
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.01788
Std Dev 0.8099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

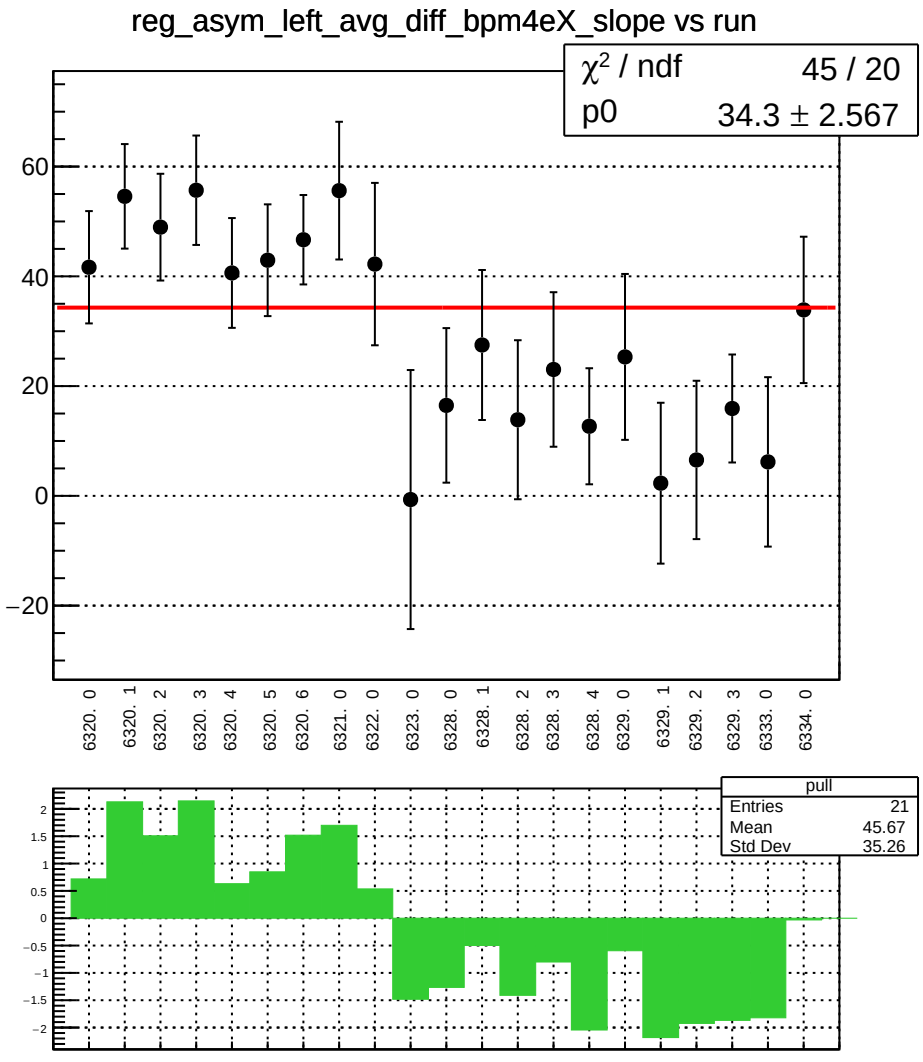

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 21.07 / 20
p0 −0.02432 ± 0.007251
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −17.48
Std Dev 27.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.06506
Std Dev 0.9995
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

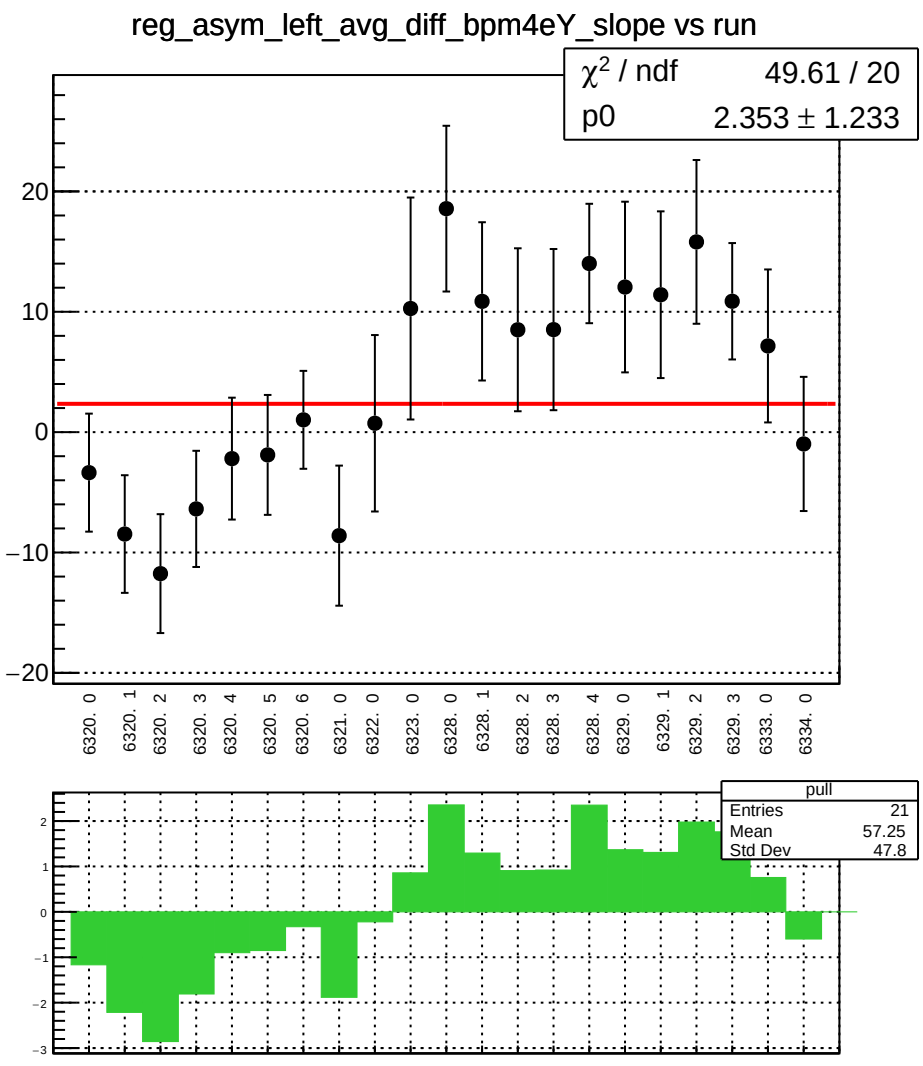

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.61 / 20
p0 −58.42 ± 2.368
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.54
Std Dev 36.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

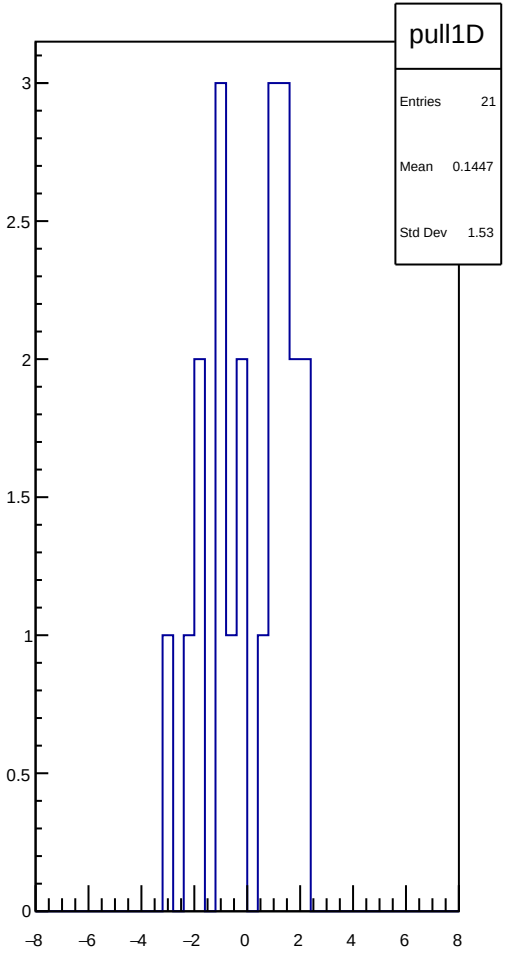

pull1D
Entries 21
Mean 0.2002
Std Dev 1.476
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

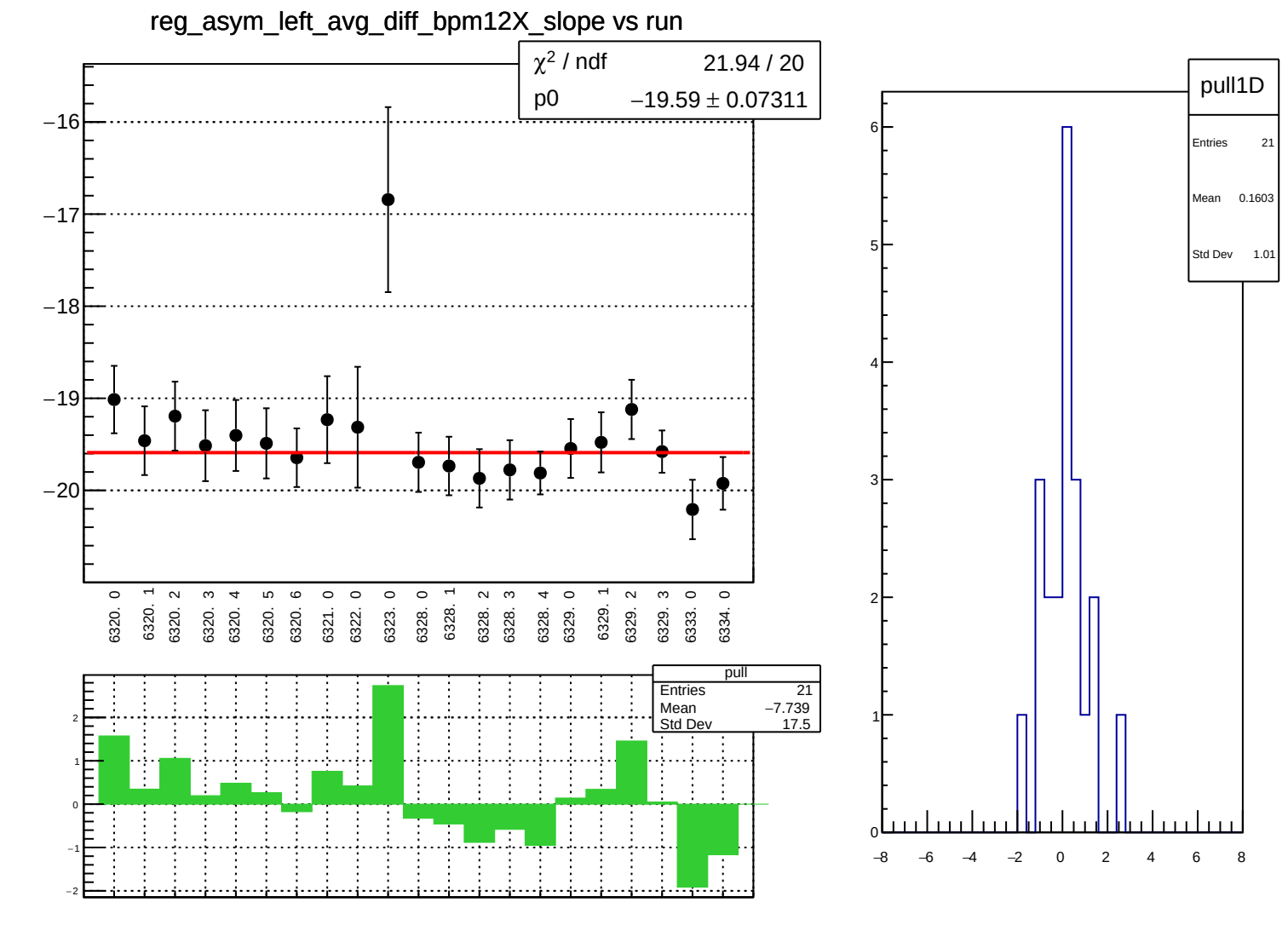

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.47 / 20
p0 4.062 ± 1.043
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 39.51
Std Dev 30.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

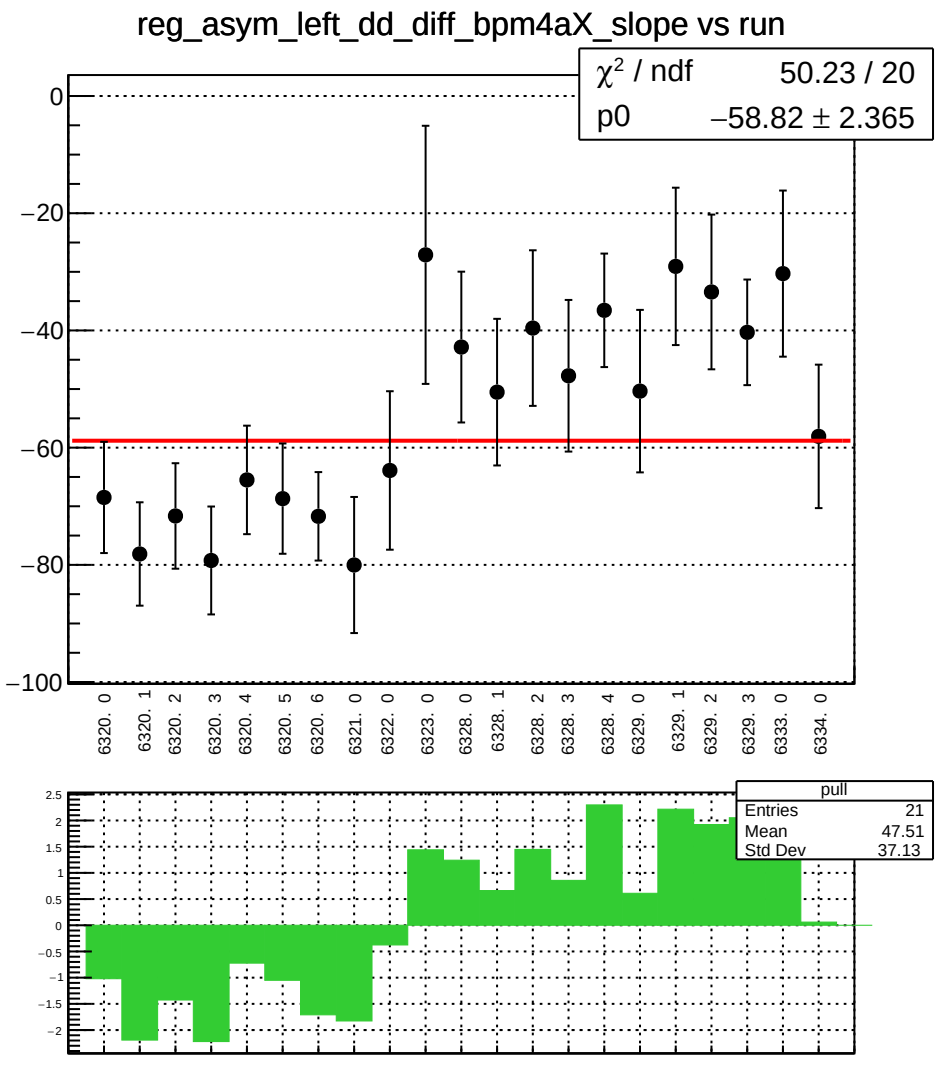

pull1D
Entries 21
Mean −0.1369
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

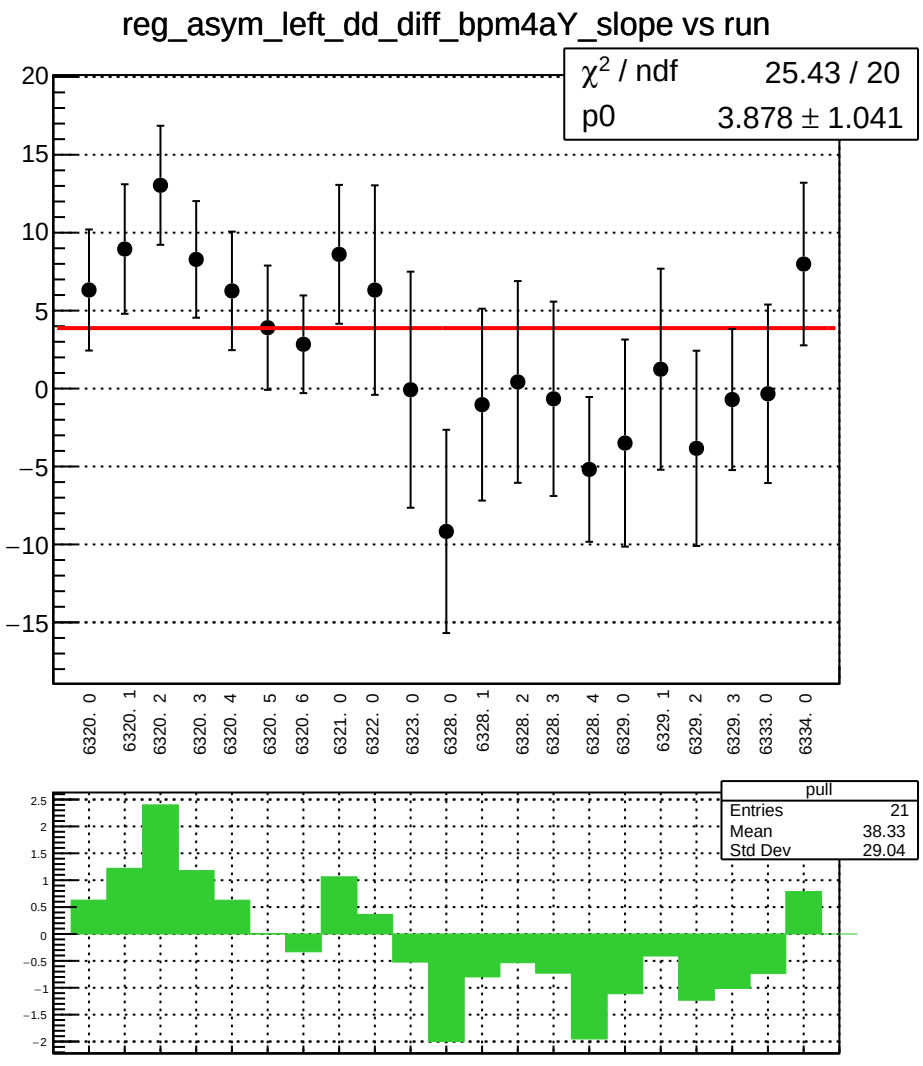

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 45 / 20
p0 34.3 ± 2.567
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 45.67
Std Dev 35.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1994
Std Dev 1.45
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

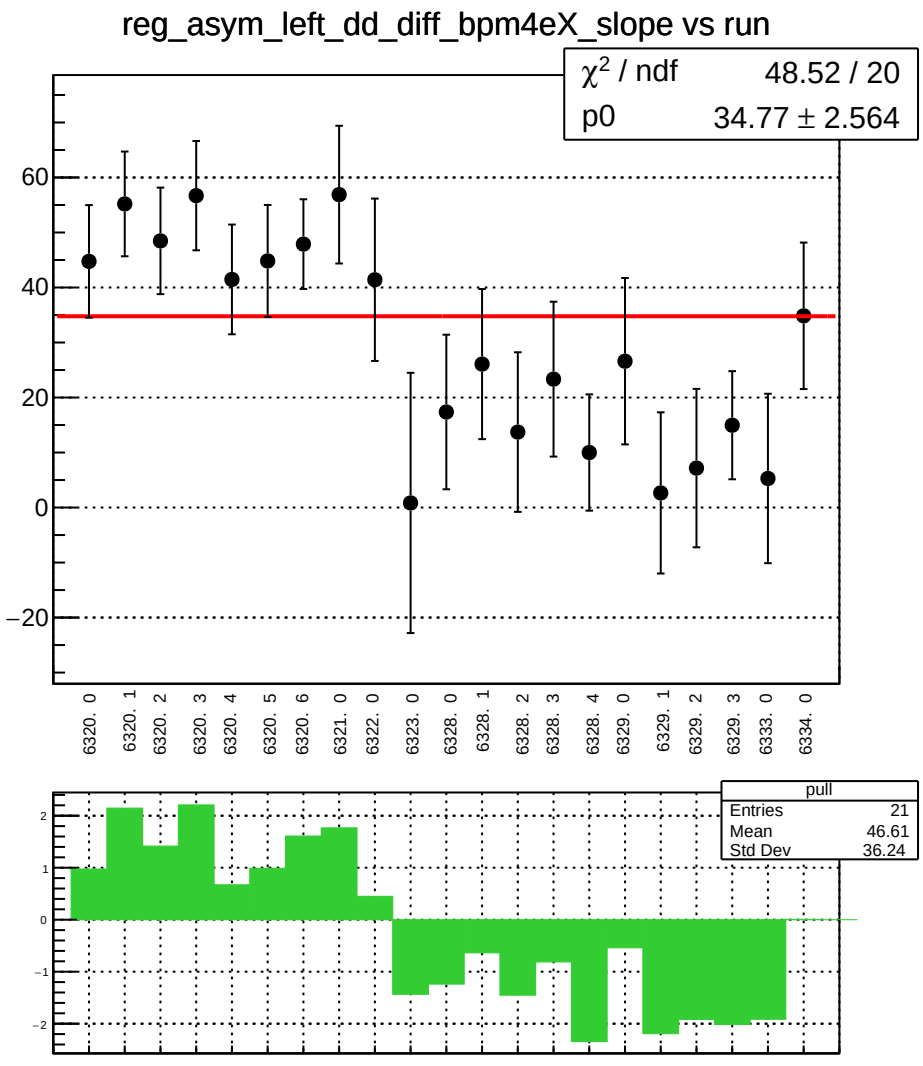

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.61 / 20
p0 2.353 ± 1.233
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.25
Std Dev 47.8
2
1
0
−1
−2
−3

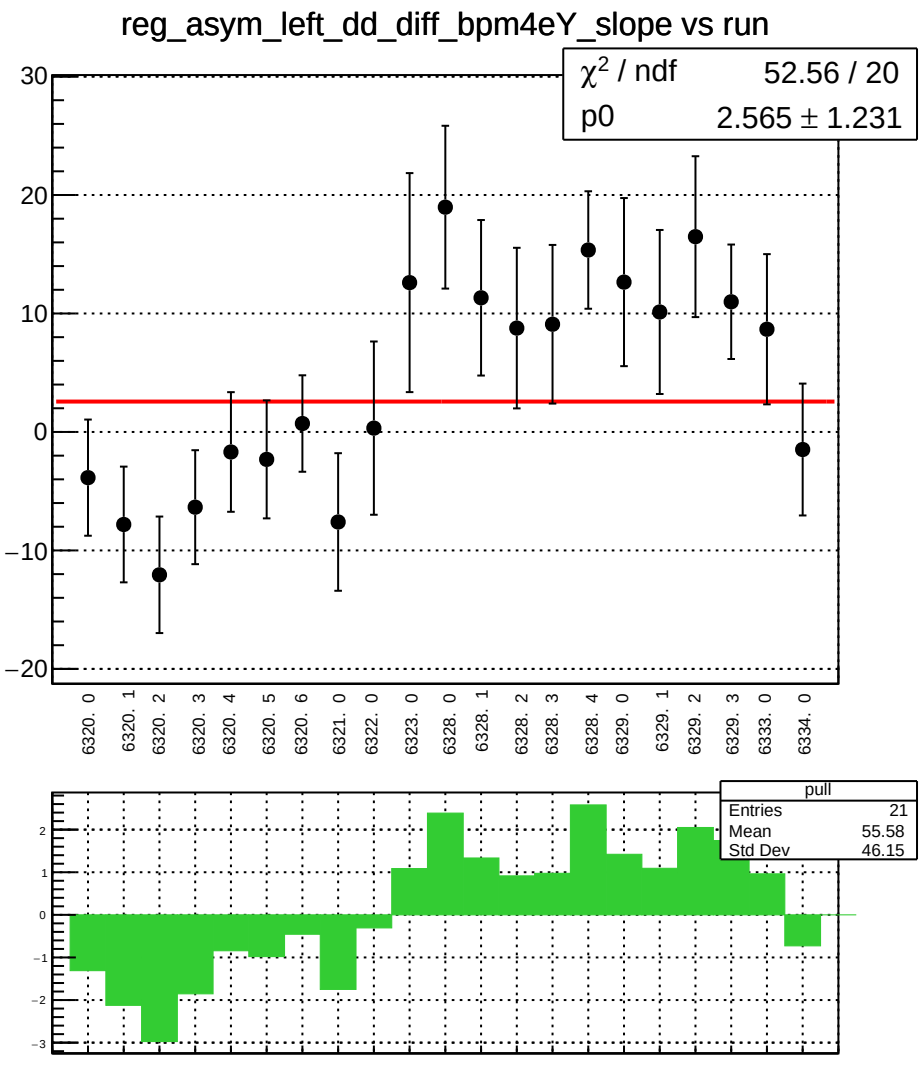

pull1D
Entries 21
Mean 0.1447
Std Dev 1.53
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

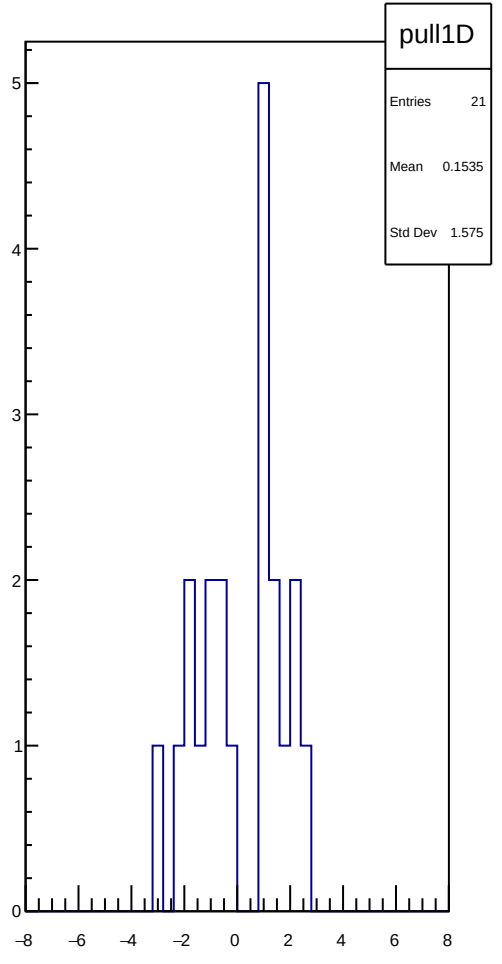

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 21.94 / 20
p0 −19.59 ± 0.07311
−16
−17
−18
−19
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.739
Std Dev 17.5
pull1D
Entries 21
Mean 0.1603
Std Dev 1.01

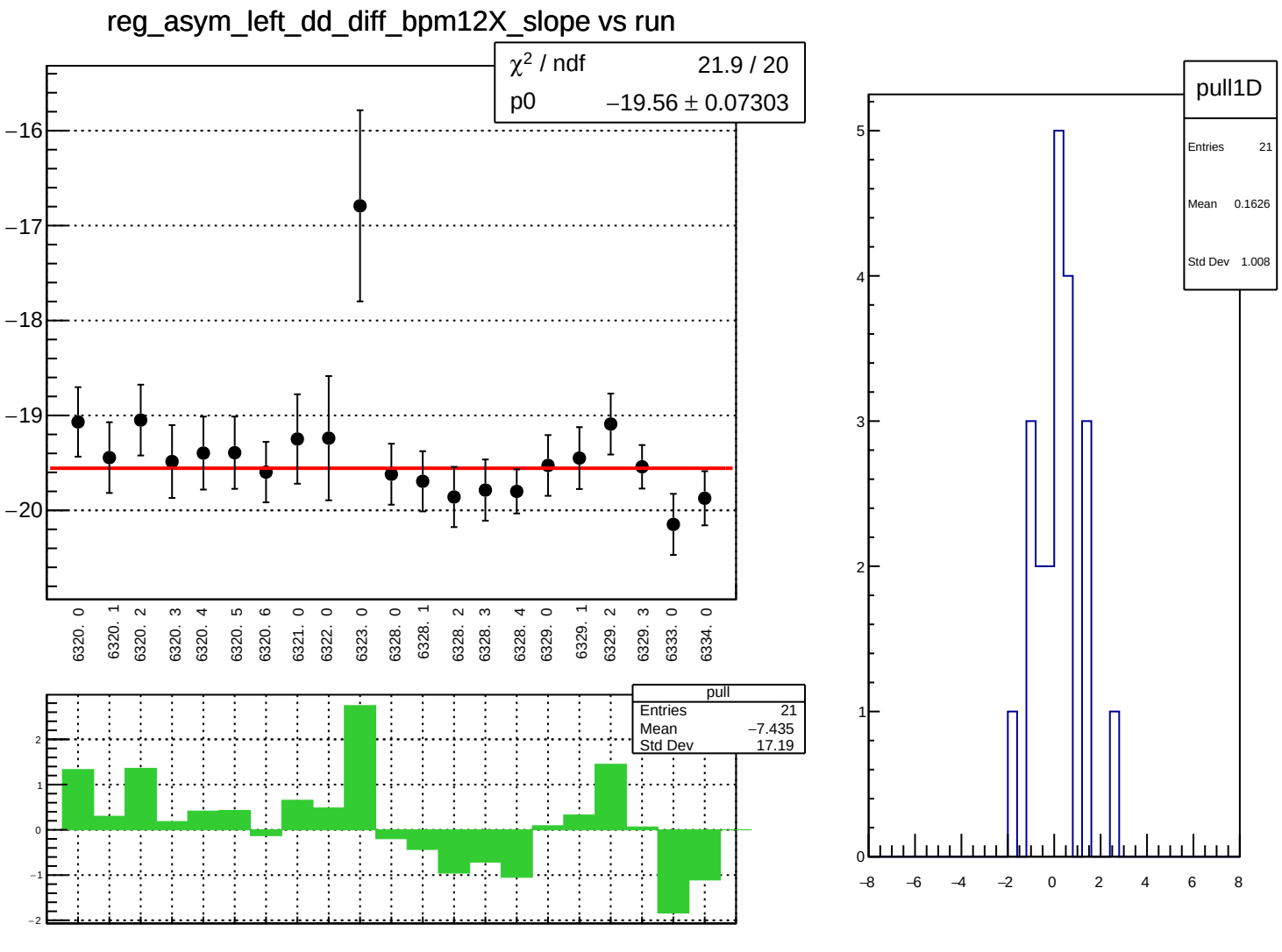

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.23 / 20
p0 −58.82 ± 2.365
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 47.51
Std Dev 37.13
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.2037
Std Dev 1.533
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

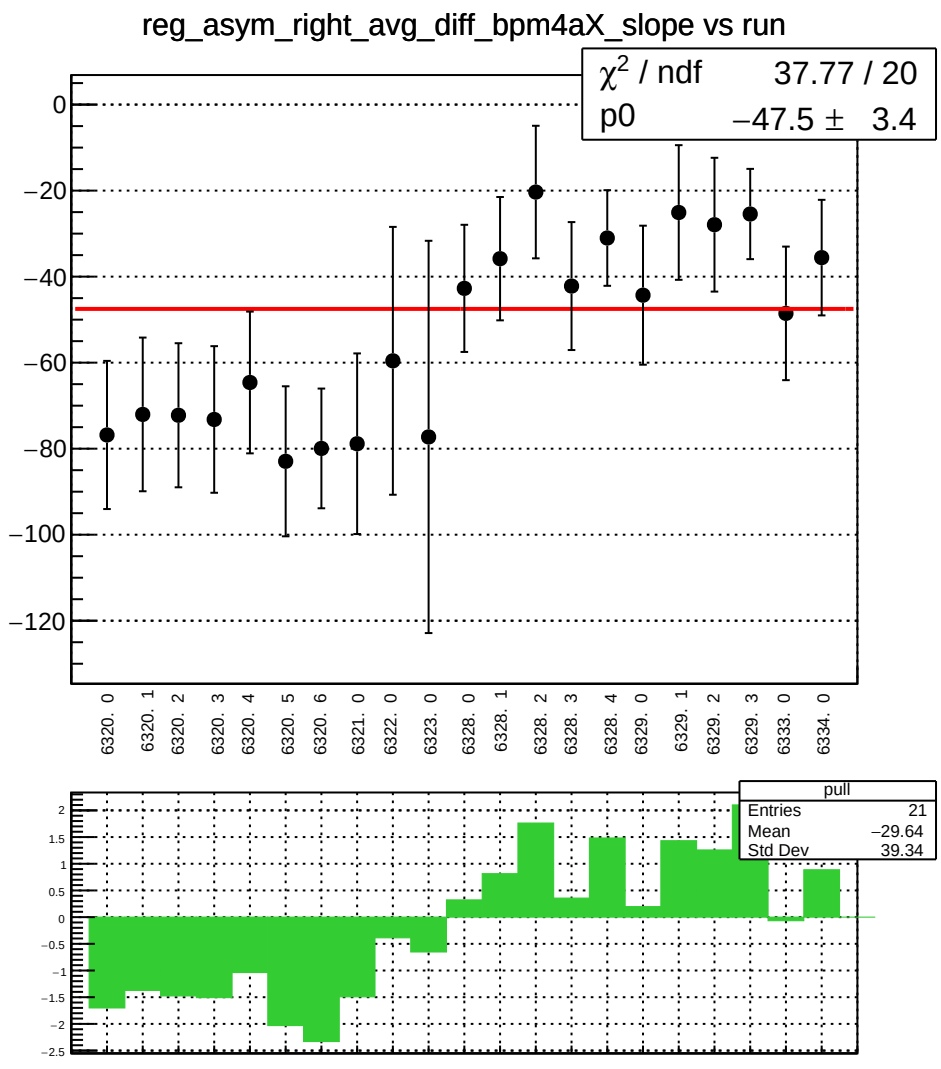

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.43 / 20
p0 3.878 ± 1.041
20
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.33
Std Dev 29.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.147
Std Dev 1.091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

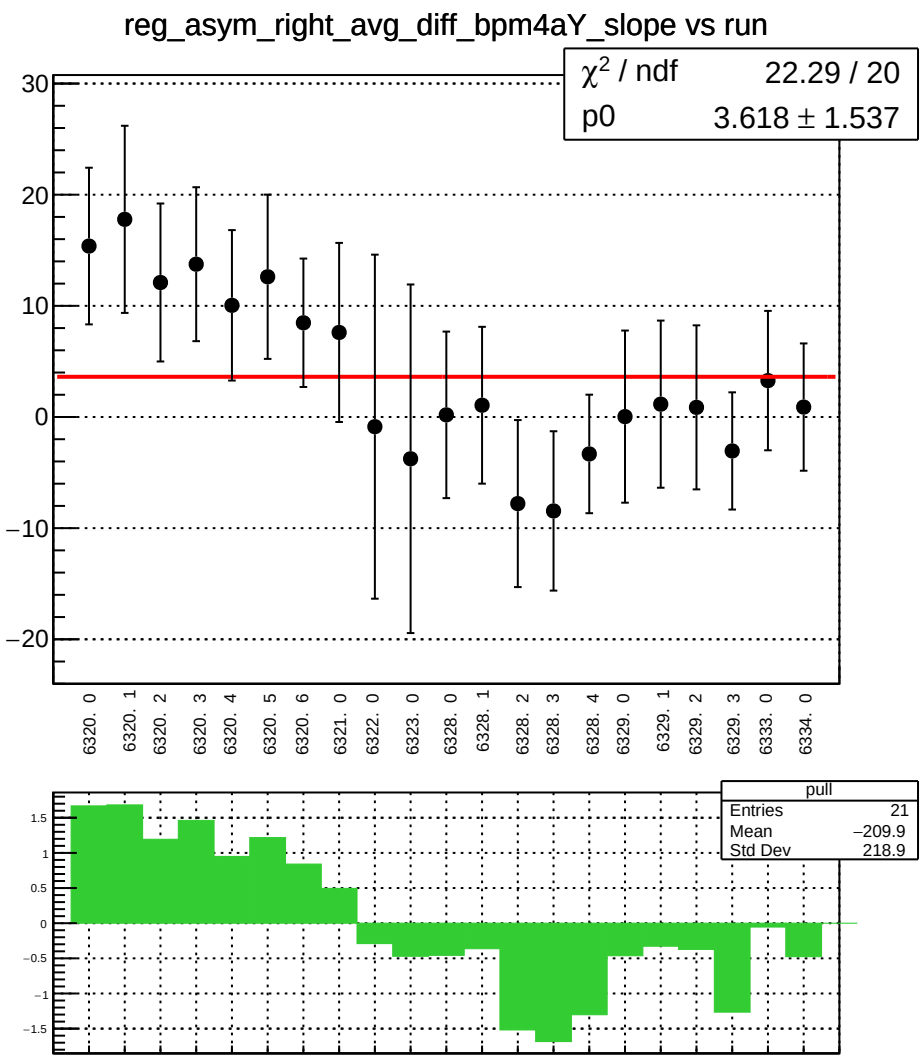

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.52 / 20
p0 34.77 ± 2.564
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.61
Std Dev 36.24
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.203
Std Dev 1.506
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

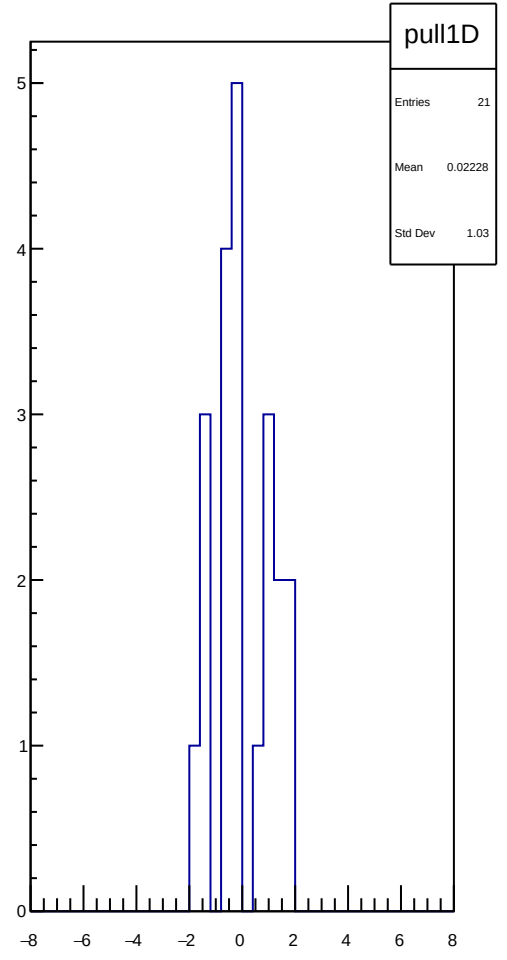

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.56 / 20
p0 2.565 ± 1.231
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 55.58
Std Dev 46.15
2
1
0
−1
−2
−3

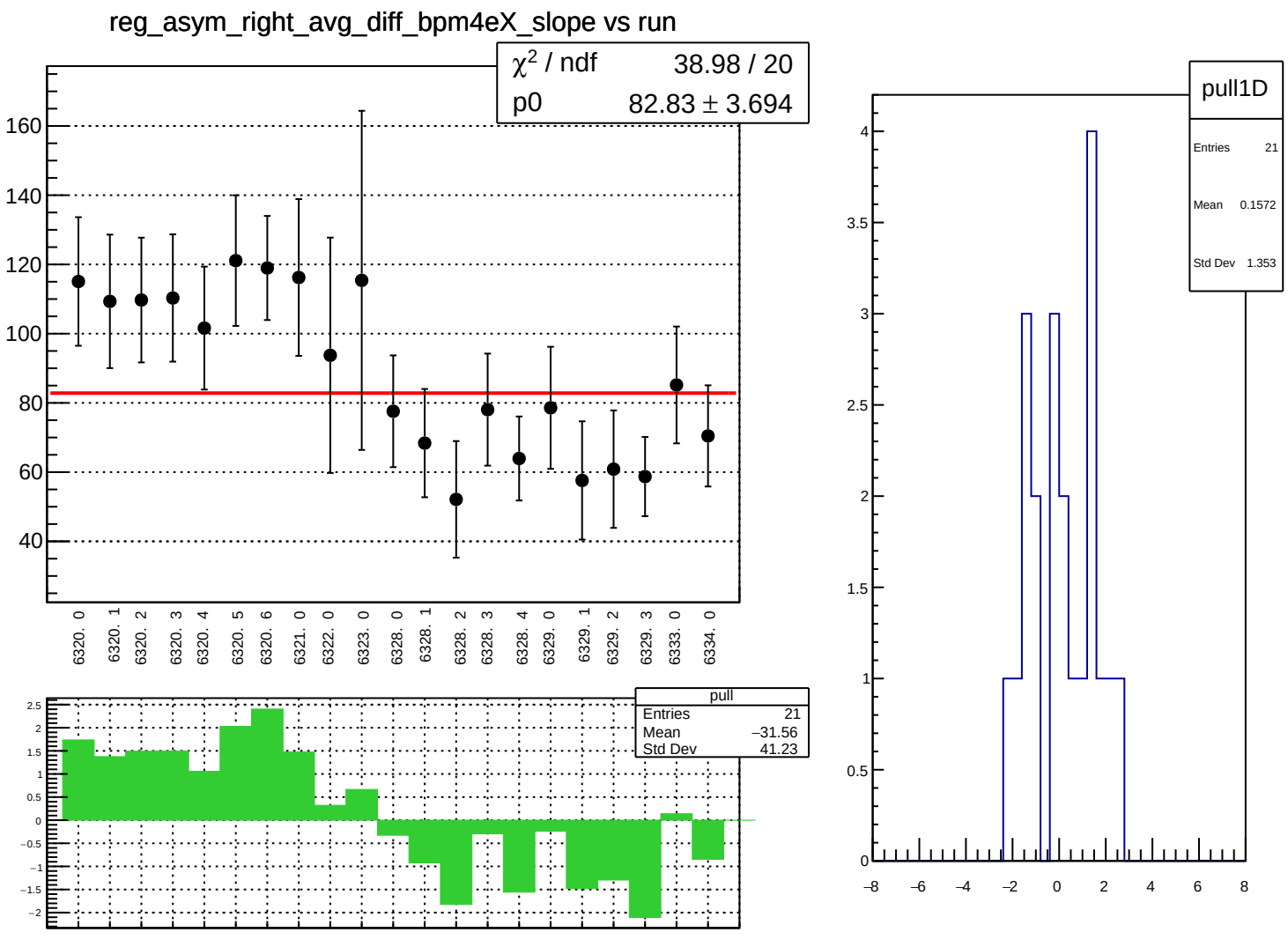

pull1D
Entries 21
Mean 0.1535
Std Dev 1.575
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

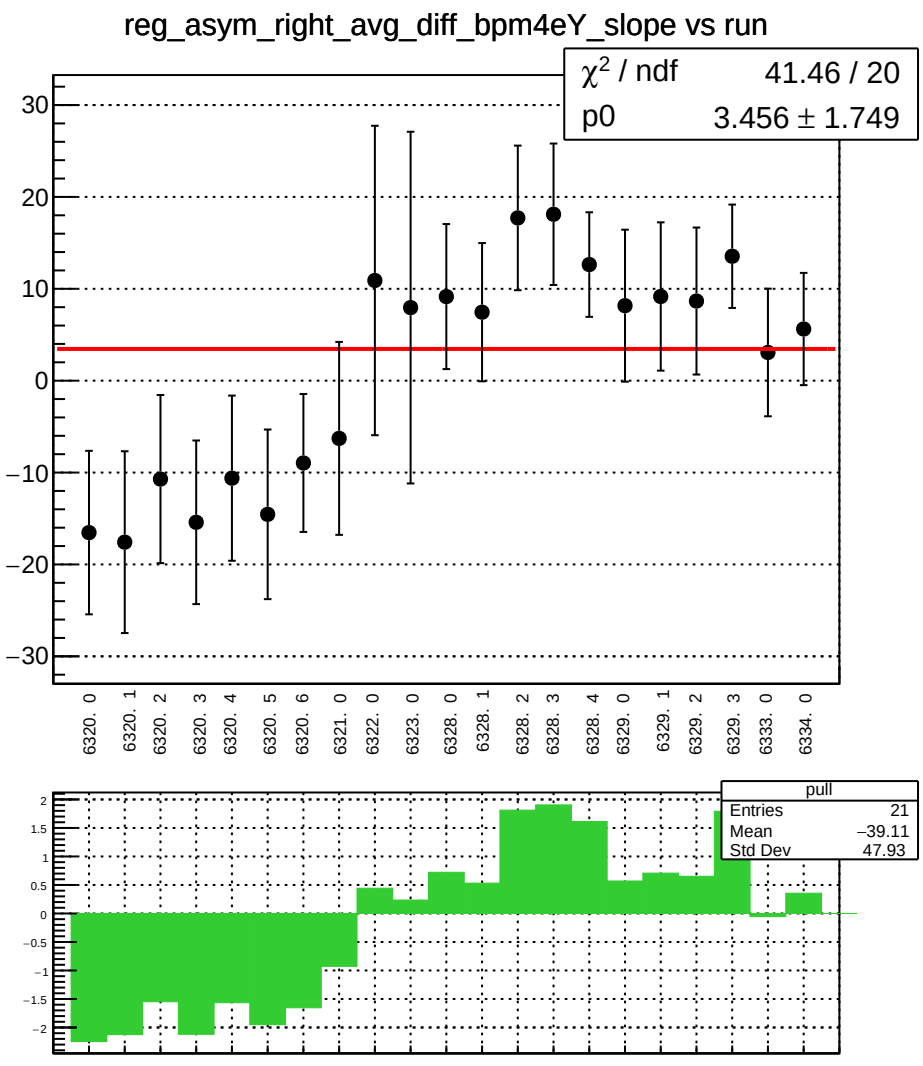

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 21.9 / 20
p0 −19.56 ± 0.07303
−16
−17
−18
−19
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.435
Std Dev 17.19
pull1D
Entries 21
Mean 0.1626
Std Dev 1.008

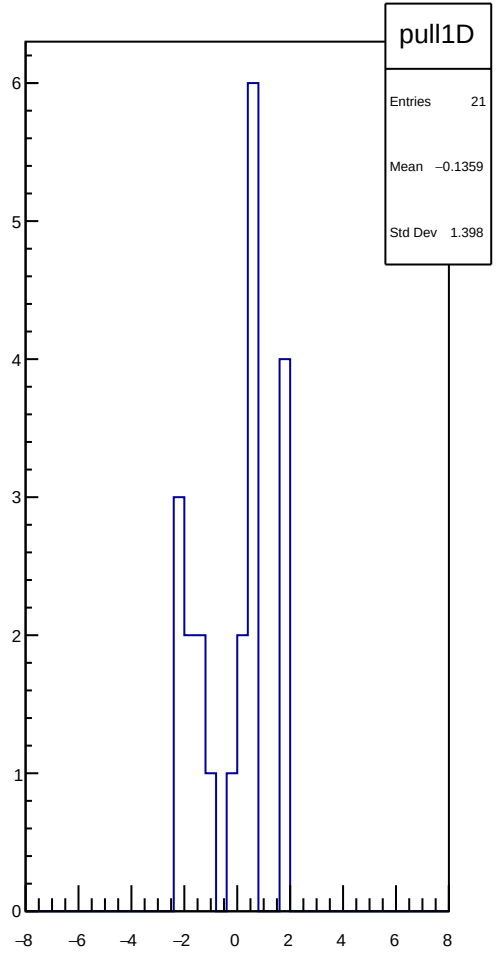

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 37.77 / 20
p0 −47.5 ± 3.4
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.64
Std Dev 39.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.1639
Std Dev 1.331
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

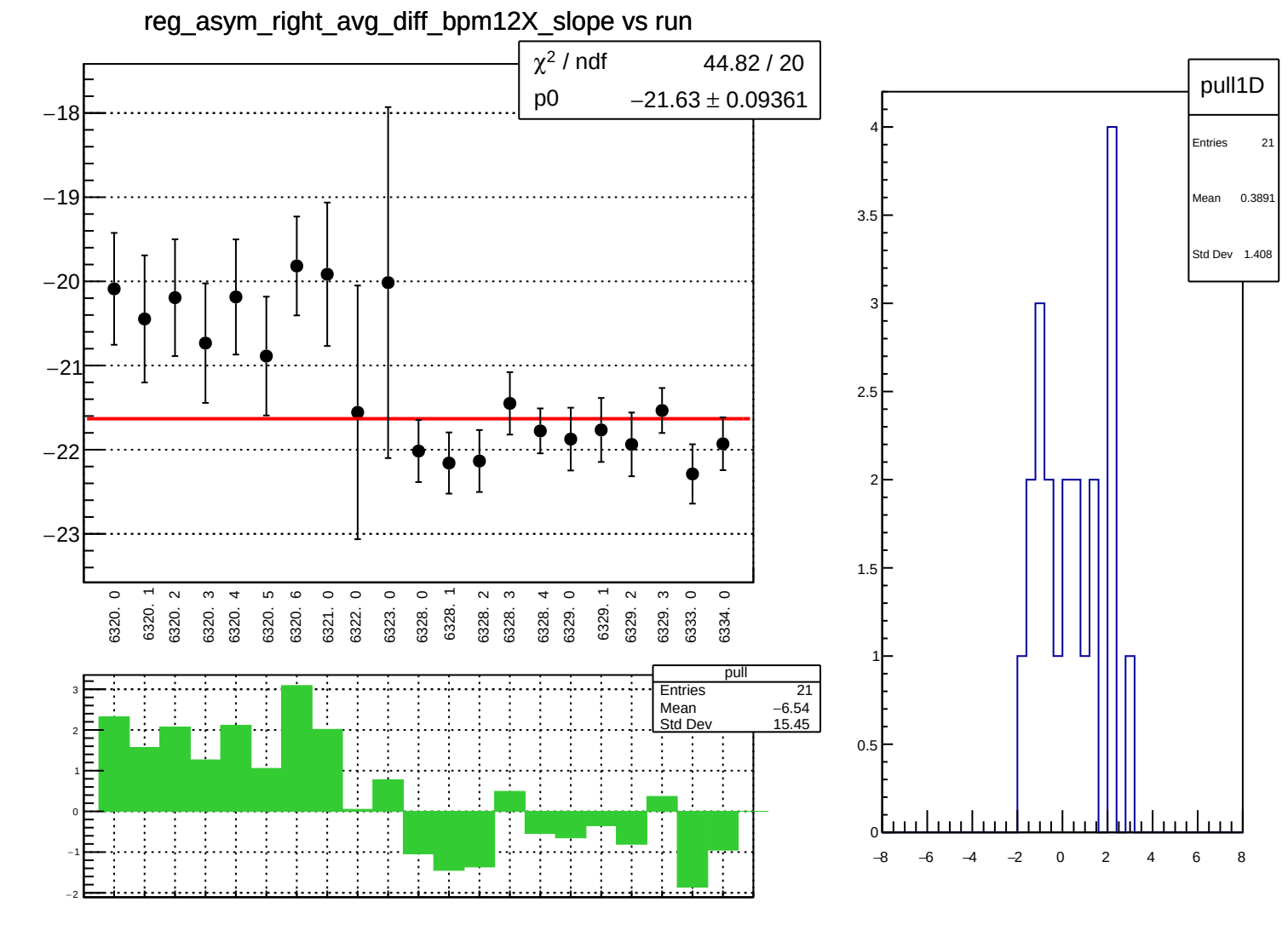

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.29 / 20
p0 3.618 ± 1.537
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −209.9
Std Dev 218.9
1.5
1
0.5
0
−0.5
−1
−1.5

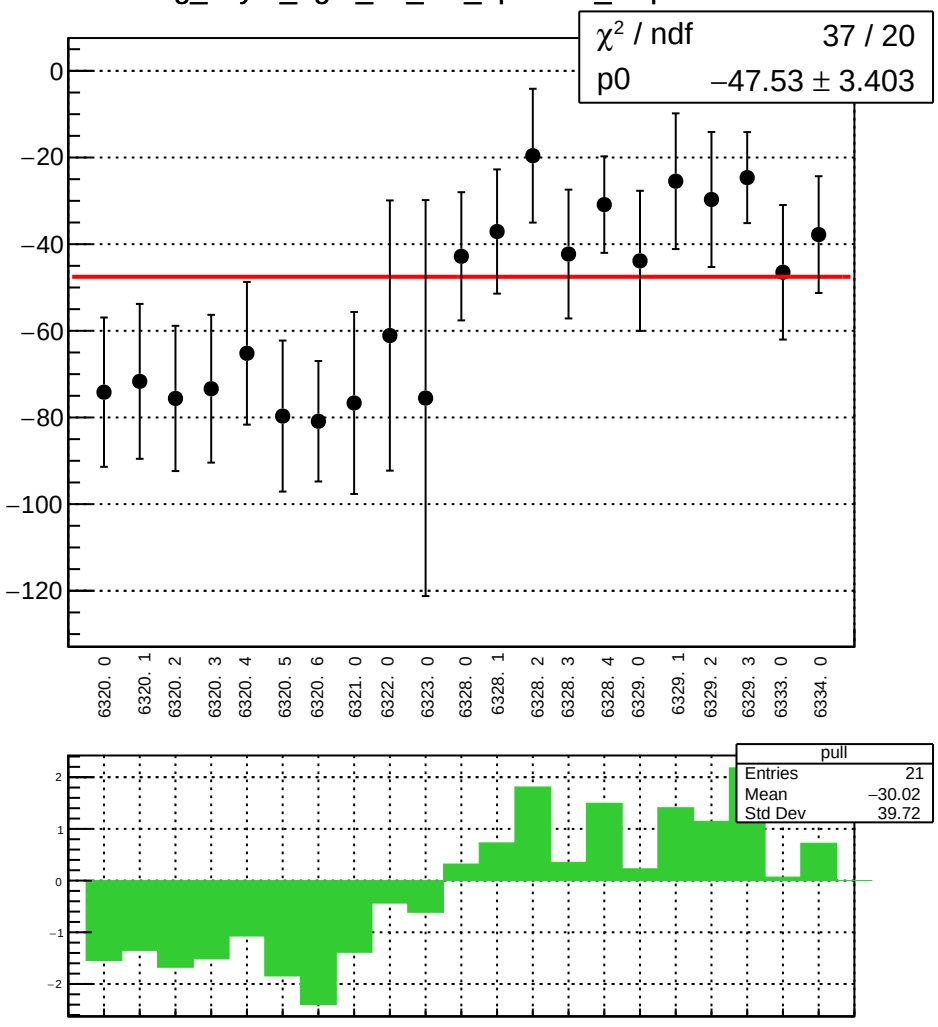

pull1D
Entries 21
Mean 0.02228
Std Dev 1.03
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

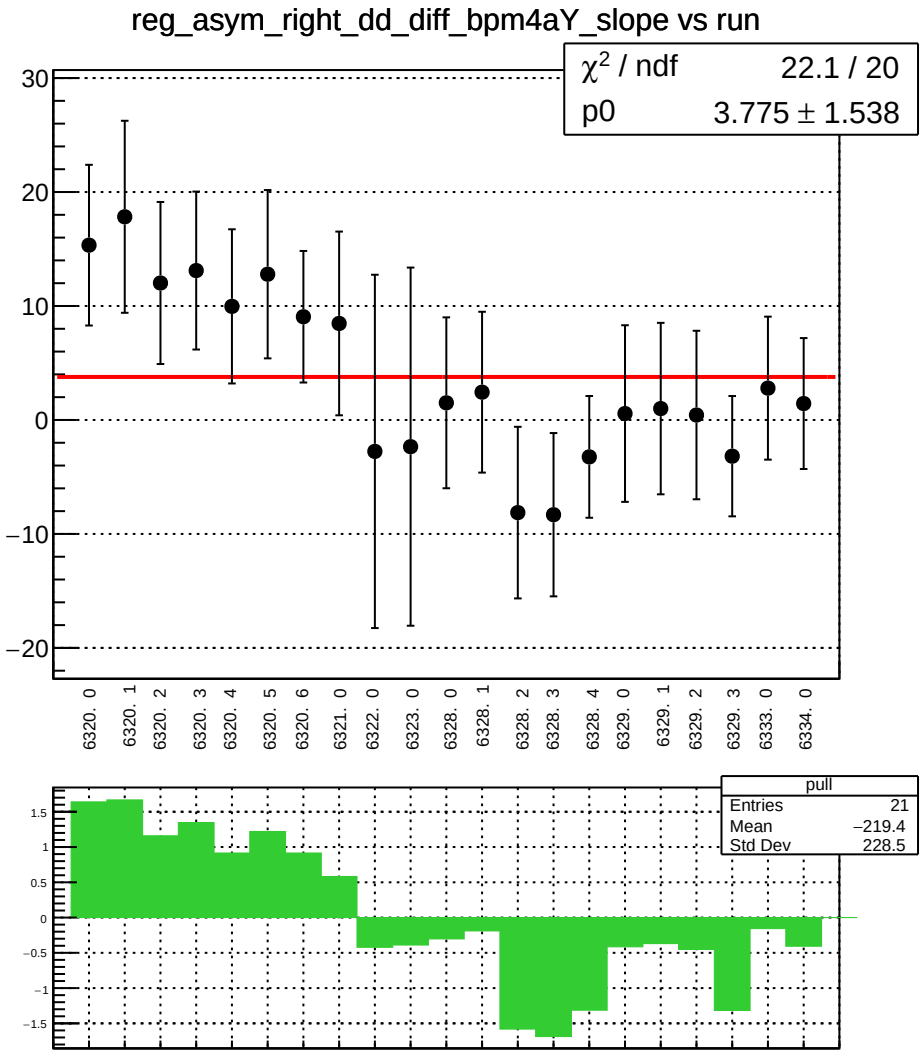

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.98 / 20
p0 82.83 ± 3.694
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −31.56
Std Dev 41.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.1572
Std Dev 1.353
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

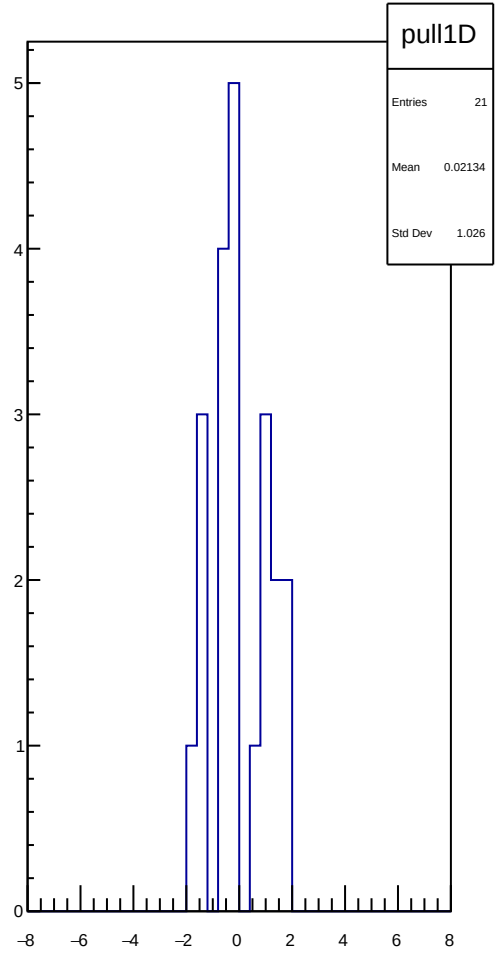

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.46 / 20
p0 3.456 ± 1.749
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −39.11
Std Dev 47.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

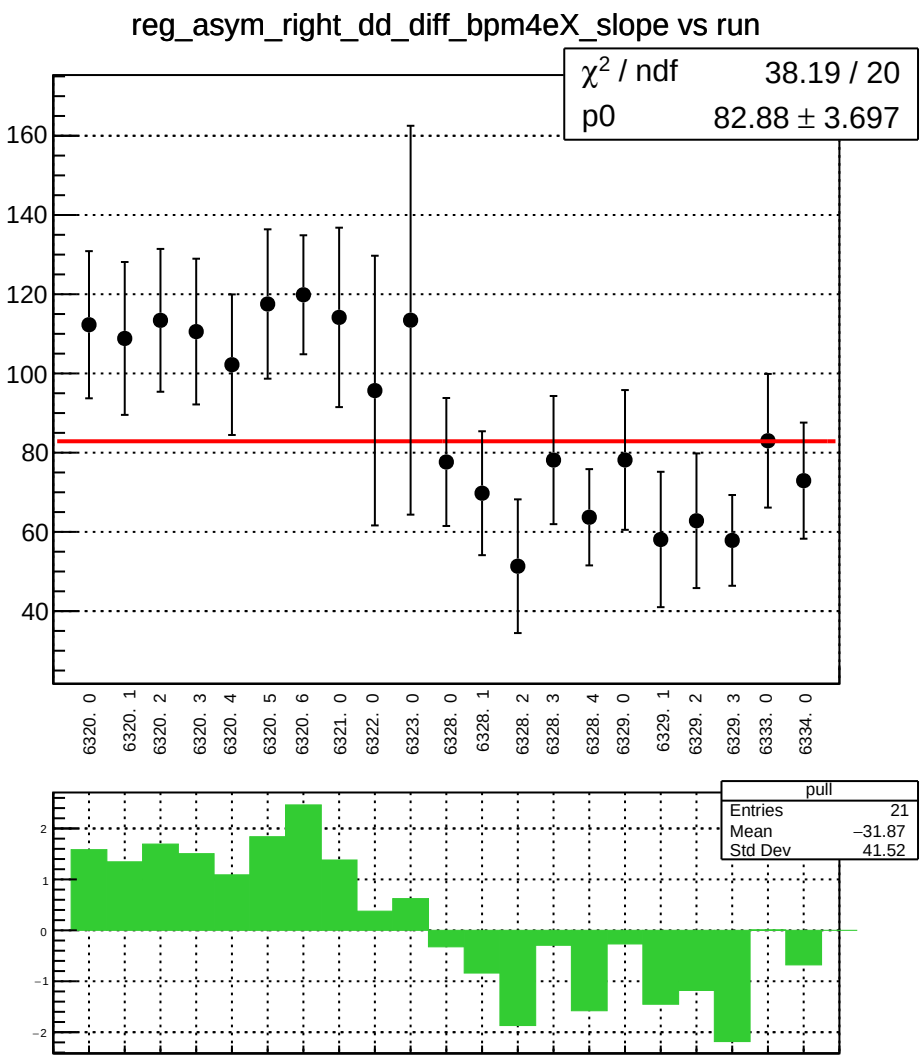

pull1D
Entries 21
Mean −0.1359
Std Dev 1.398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

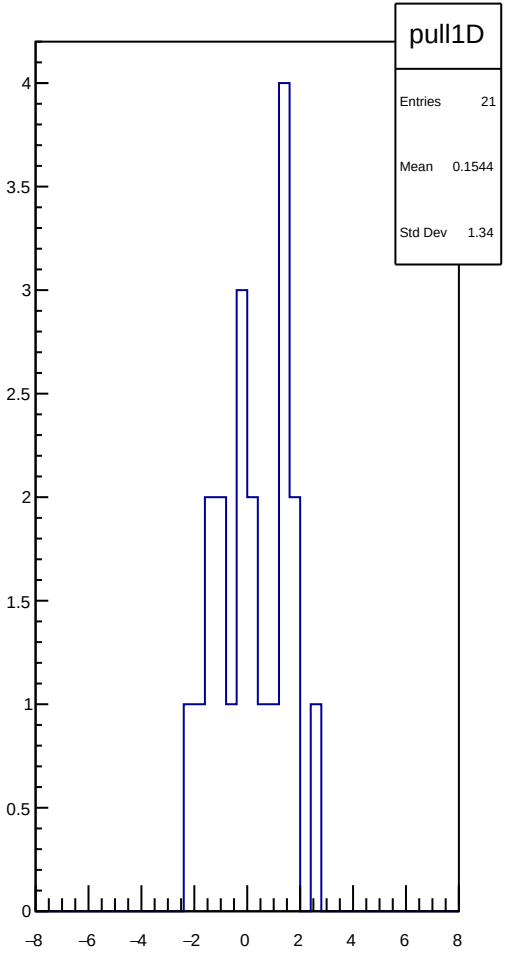

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 44.82 / 20
p0 −21.63 ± 0.09361
−18
−19
−20
−21
−22
−23
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.54
Std Dev 15.45
pull1D
Entries 21
Mean 0.3891
Std Dev 1.408

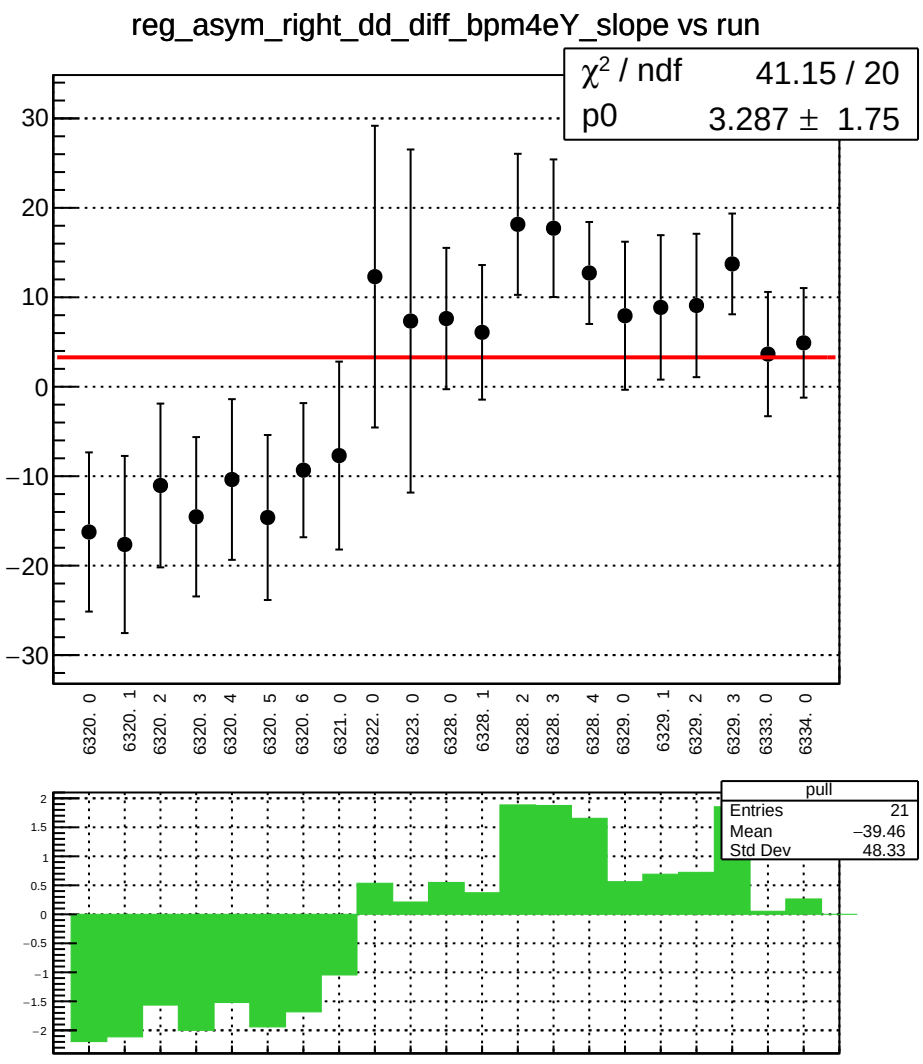

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 37 / 20
p0 −47.53 ± 3.403
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −30.02
Std Dev 39.72
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.1607
Std Dev 1.318
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

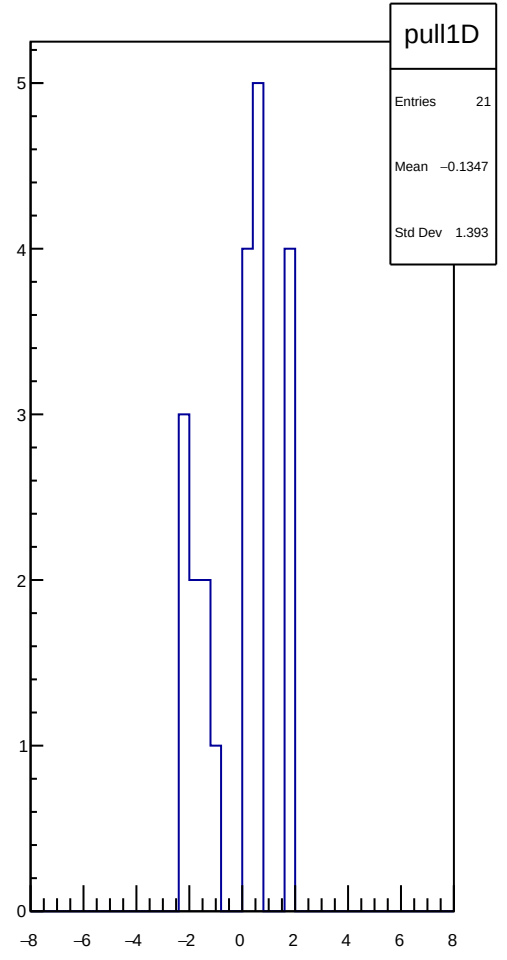

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.1 / 20
p0 3.775 ± 1.538
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −219.4
Std Dev 228.5
1.5
1
0.5
0
−0.5
−1
−1.5

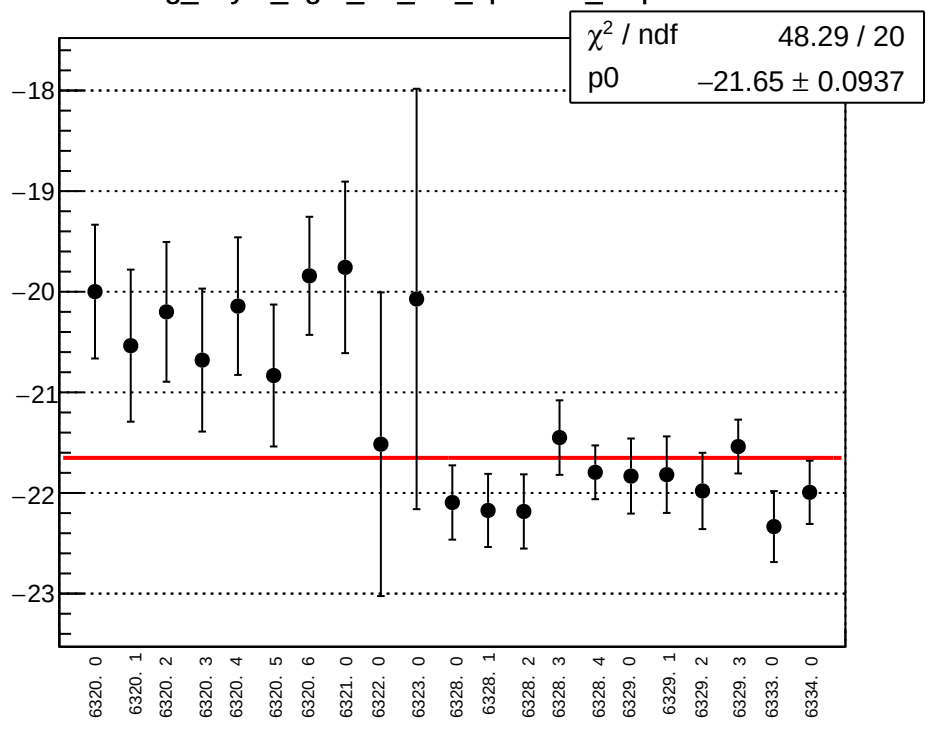

pull1D
Entries 21
Mean 0.02134
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

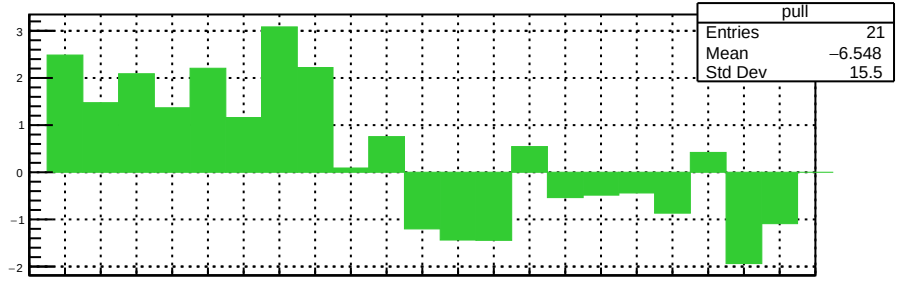

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.19 / 20
p0 82.88 ± 3.697
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −31.87
Std Dev 41.52
2
1
0
−1
−2

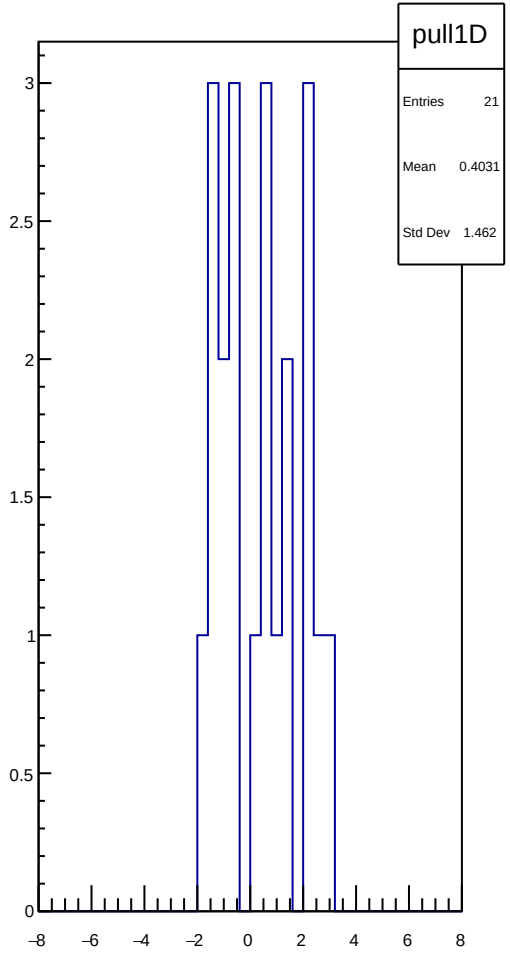

pull1D
Entries 21
Mean 0.1544
Std Dev 1.34
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

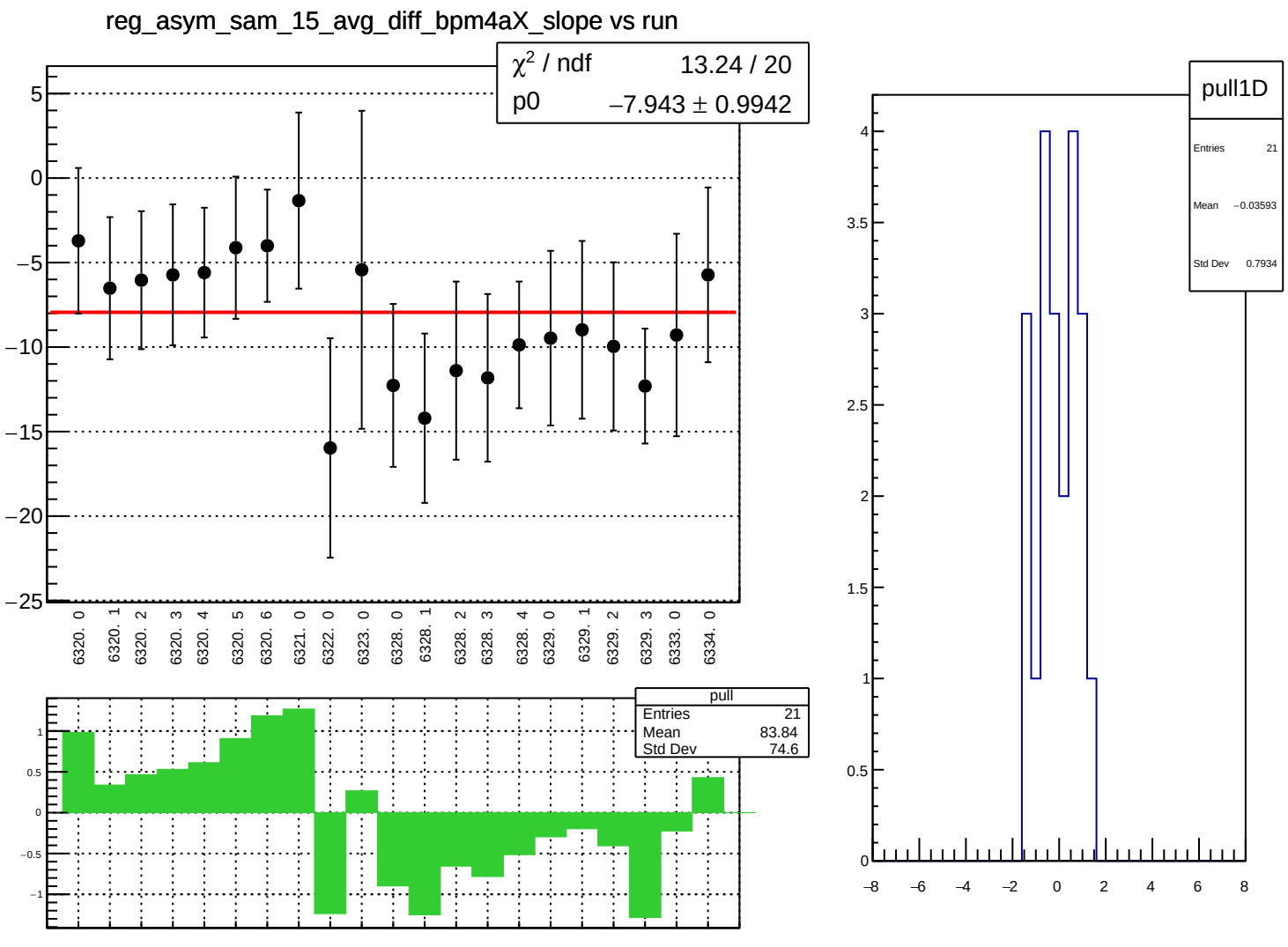

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.15 / 20
p0 3.287 ± 1.75
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −39.46
Std Dev 48.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

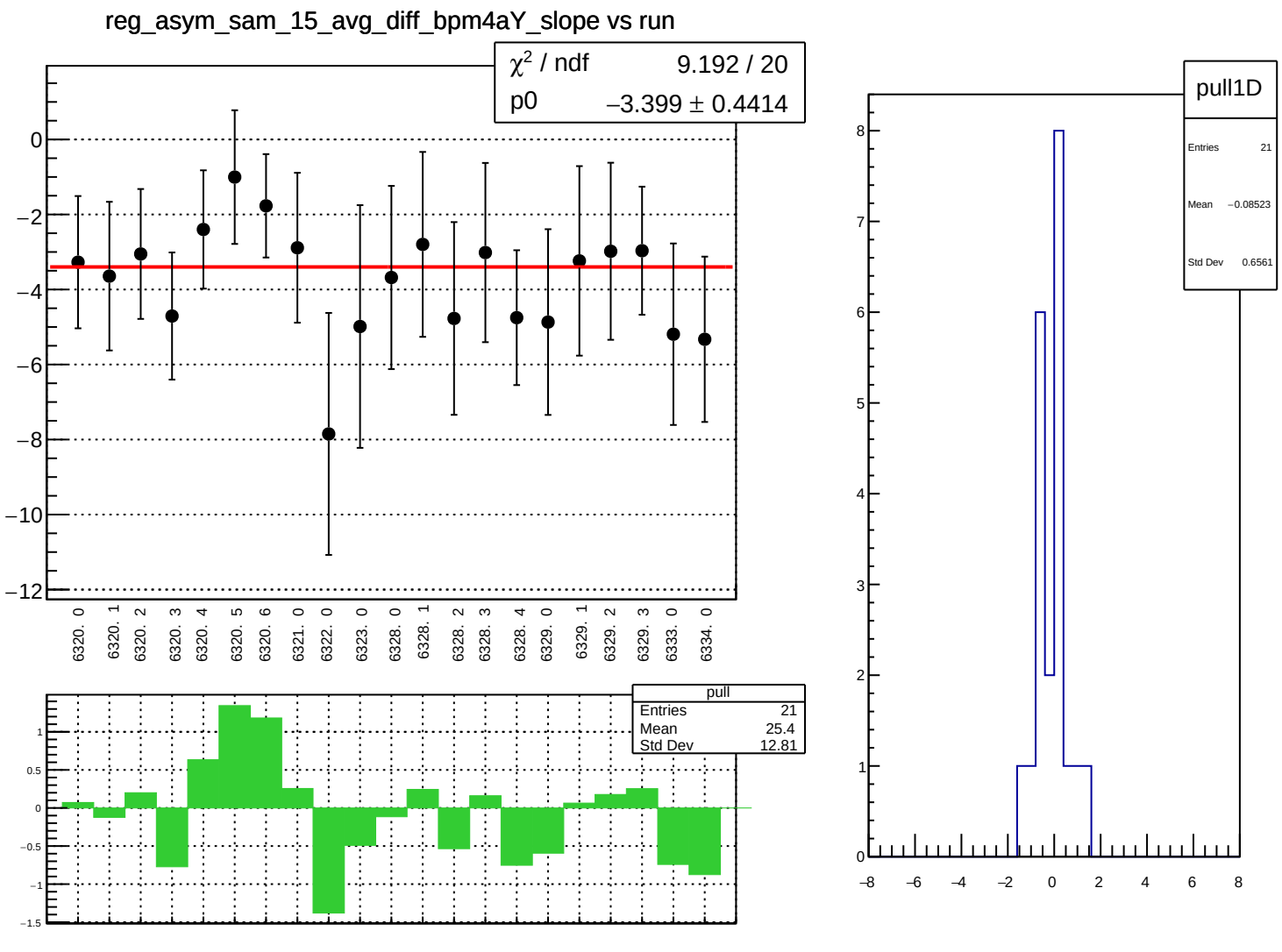

pull1D
Entries 21
Mean −0.1347
Std Dev 1.393
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

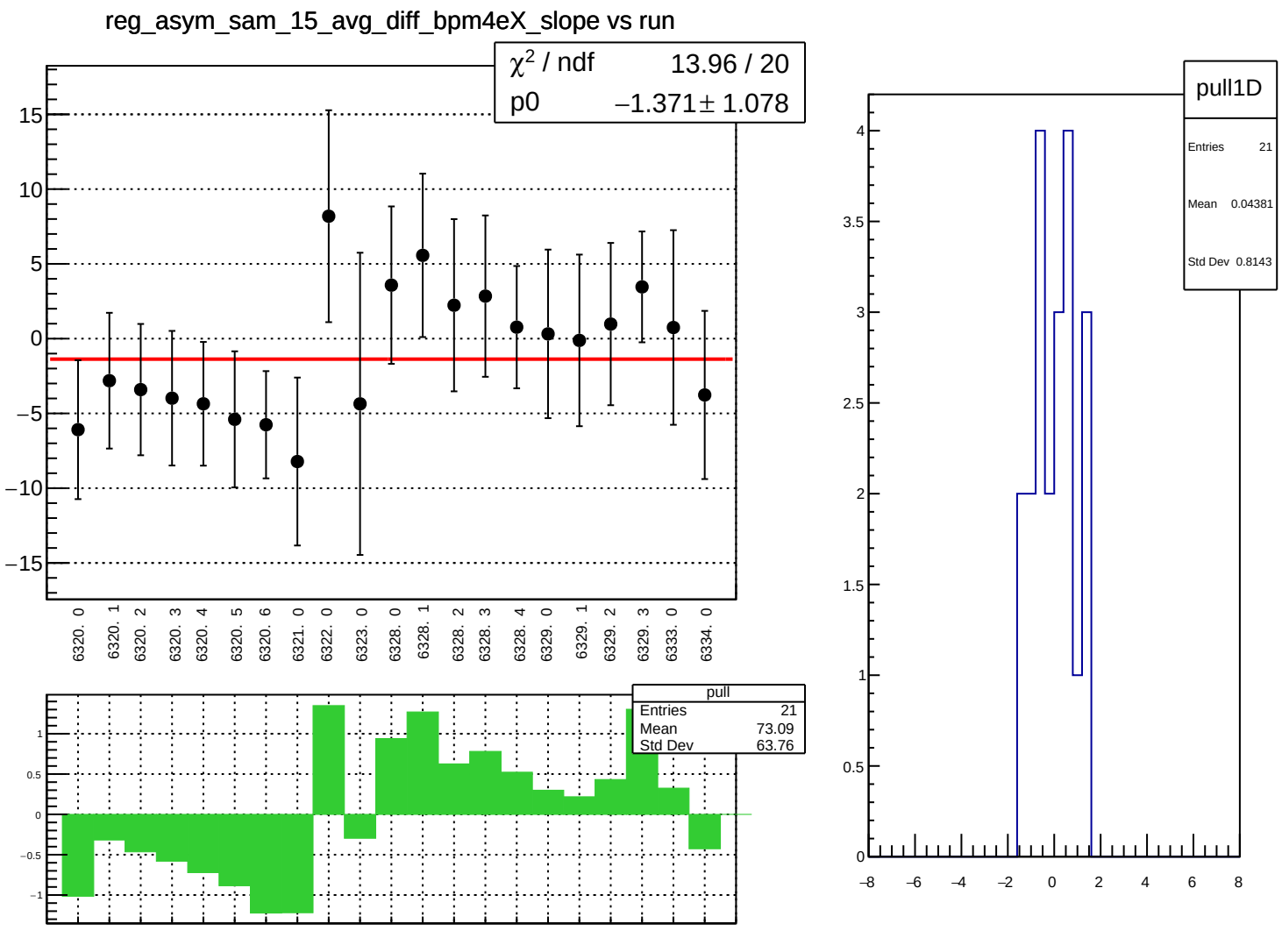

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 48.29 / 20
p0 −21.65 ± 0.0937
−18
−19
−20
−21
−22
−23
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

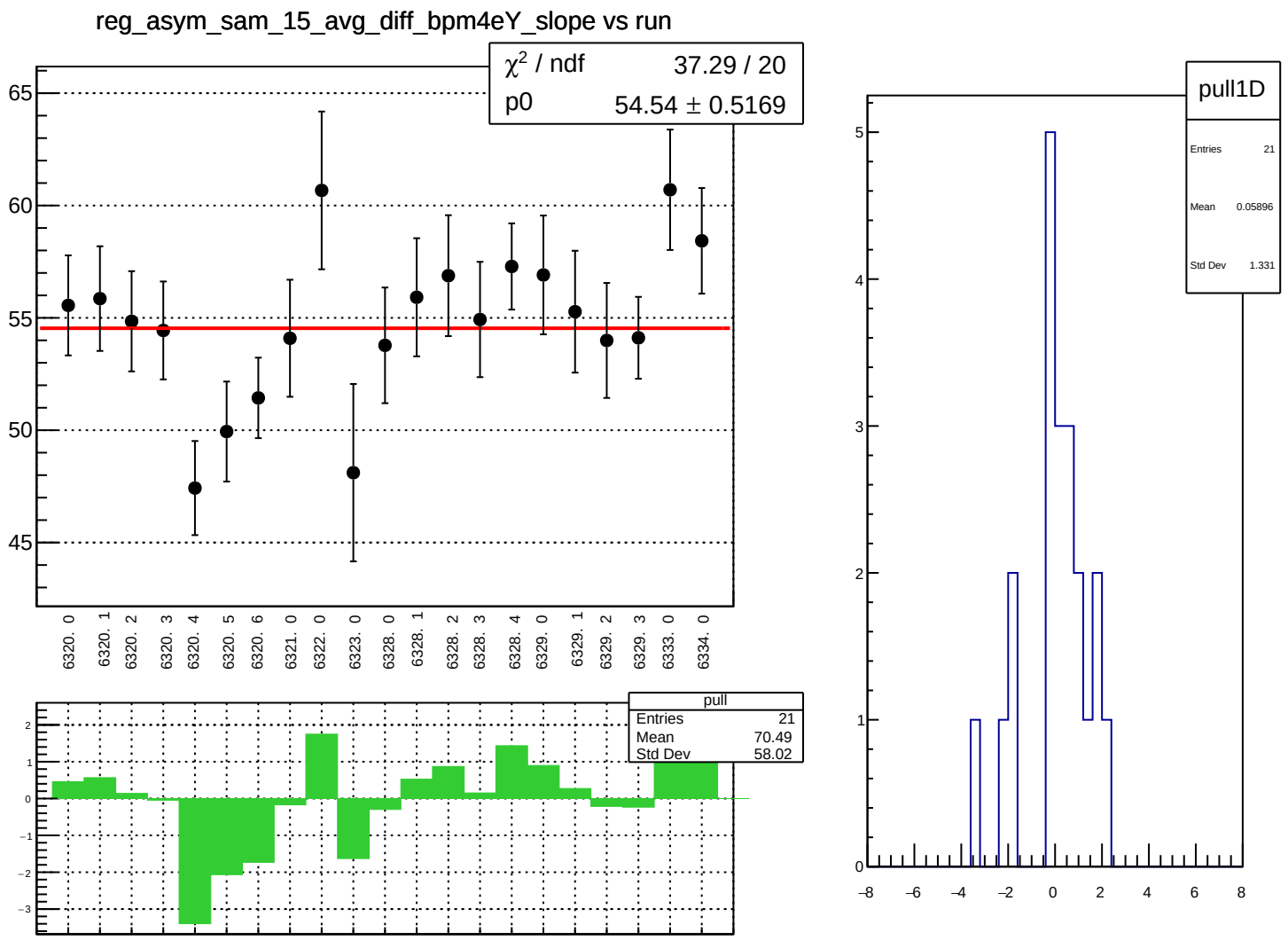

pull
Entries 21
Mean −6.548
Std Dev 15.5
3
2
1
0
−1
−2

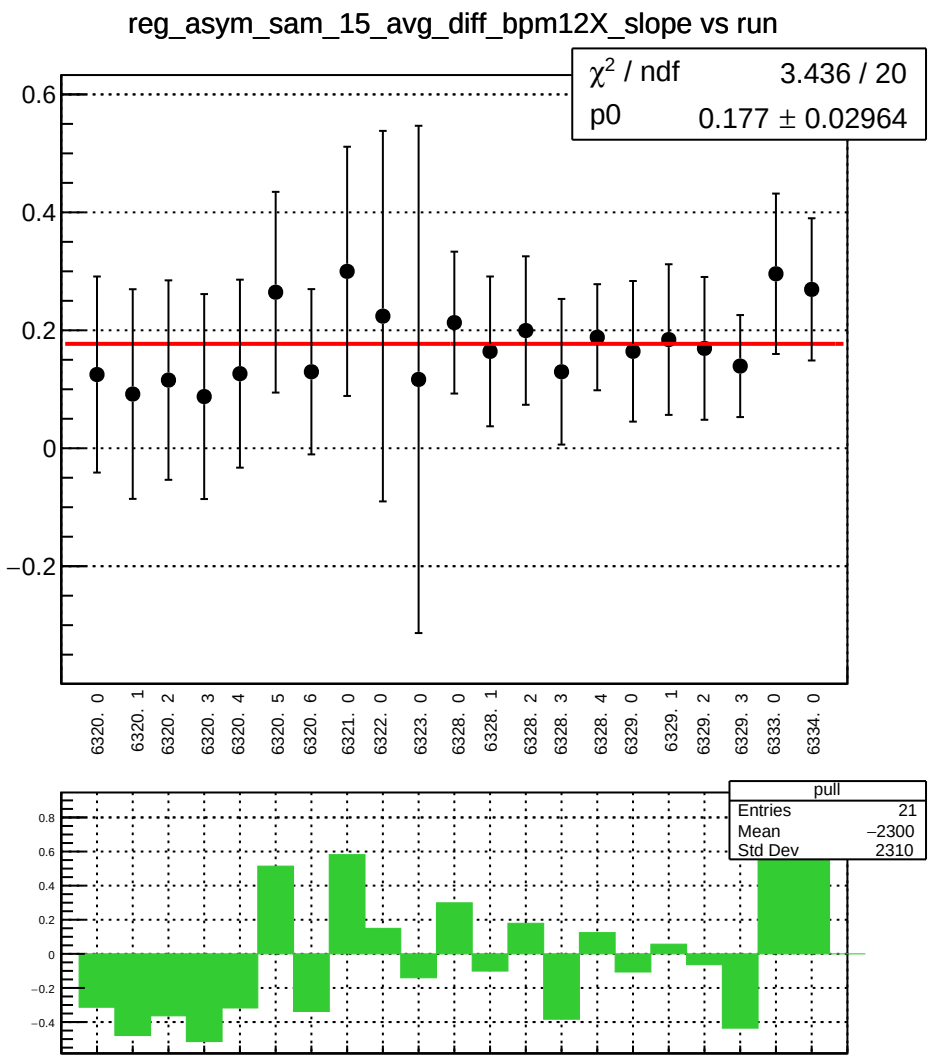

pull1D
Entries 21
Mean 0.4031
Std Dev 1.462
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

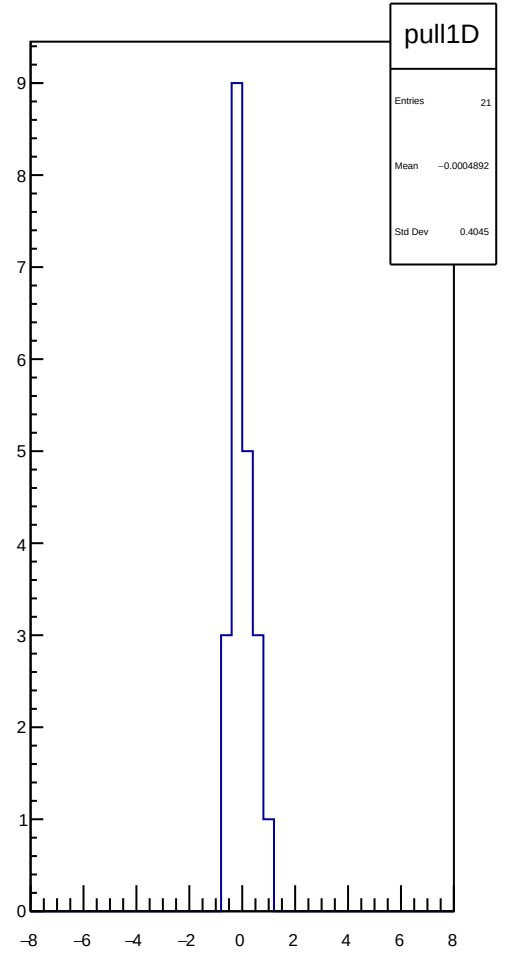

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.24 / 20
p0 −7.943 ± 0.9942
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 83.84
Std Dev 74.6
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.03593
Std Dev 0.7934
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

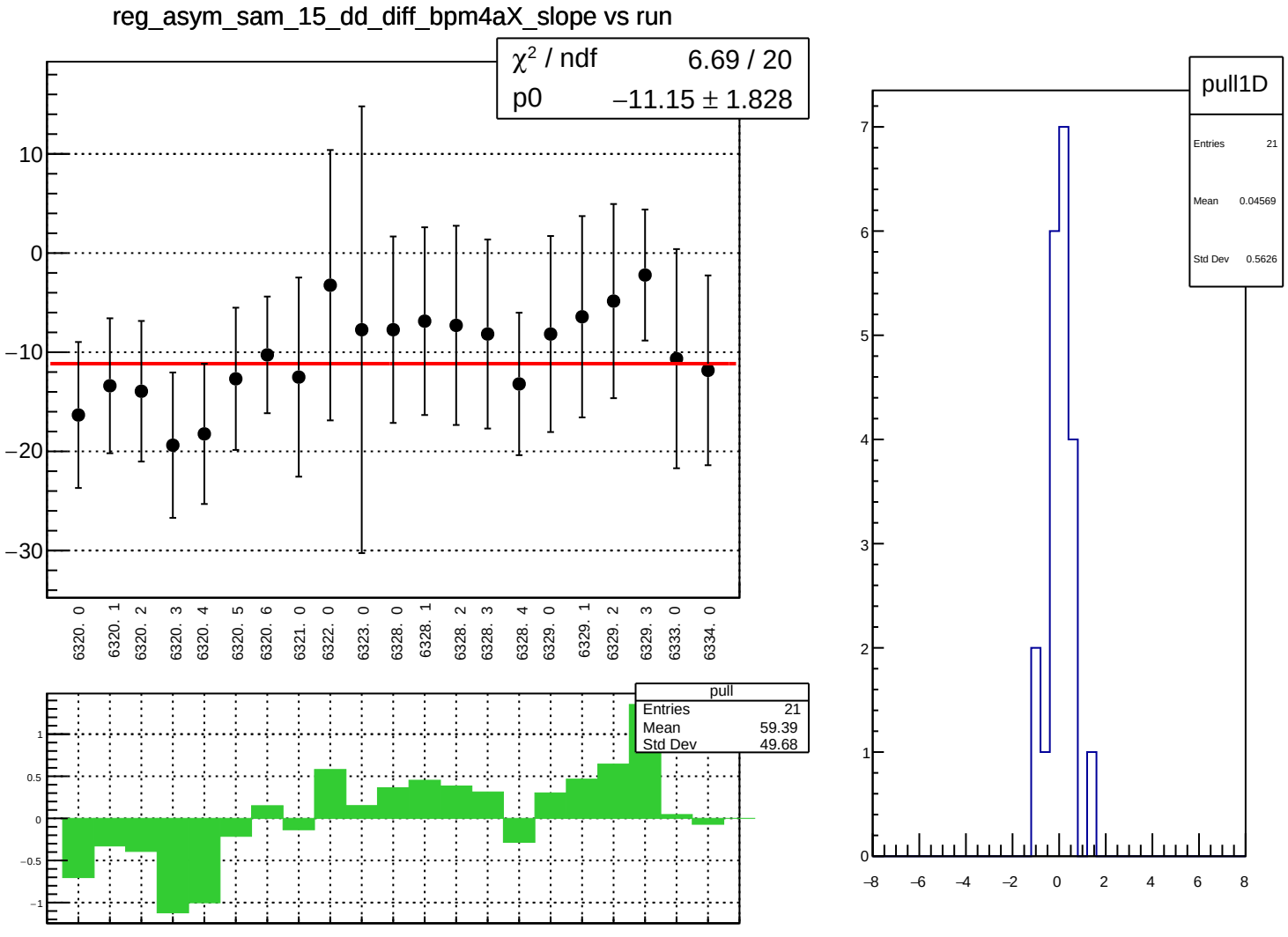

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.192 / 20
p0 −3.399 ± 0.4414
0
−2
−4
−6
−8
−10
−12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.4
Std Dev 12.81
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.08523
Std Dev 0.6561
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

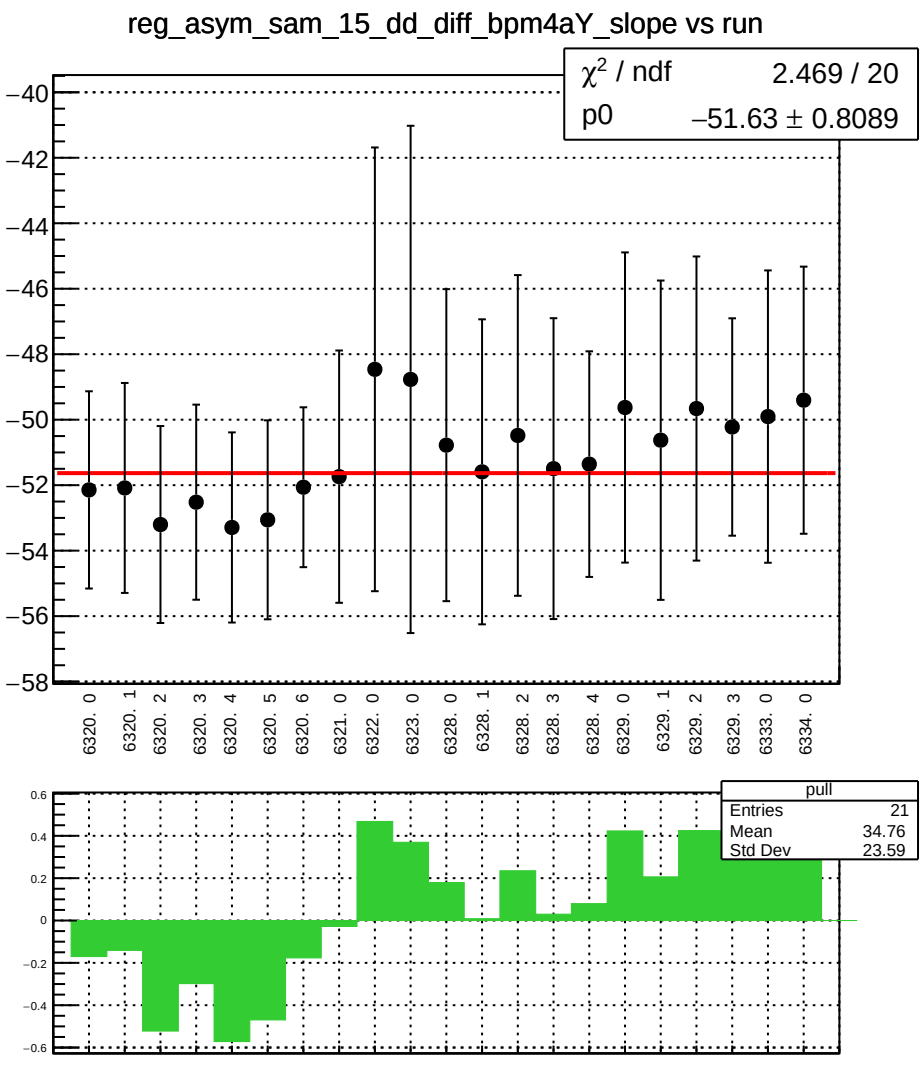

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.96 / 20
p0 −1.371± 1.078
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 73.09
Std Dev 63.76
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.04381
Std Dev 0.8143
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

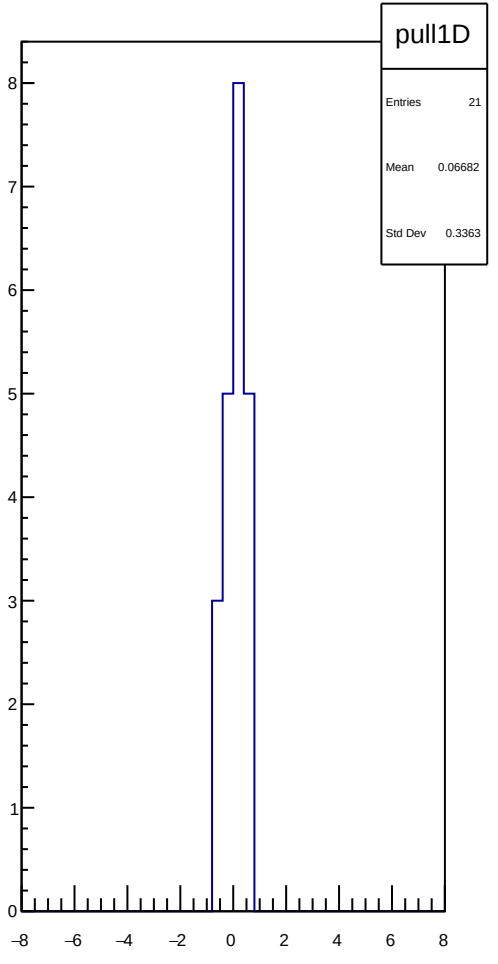

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.29 / 20
p0 54.54 ± 0.5169
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 70.49
Std Dev 58.02
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.05896
Std Dev 1.331
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

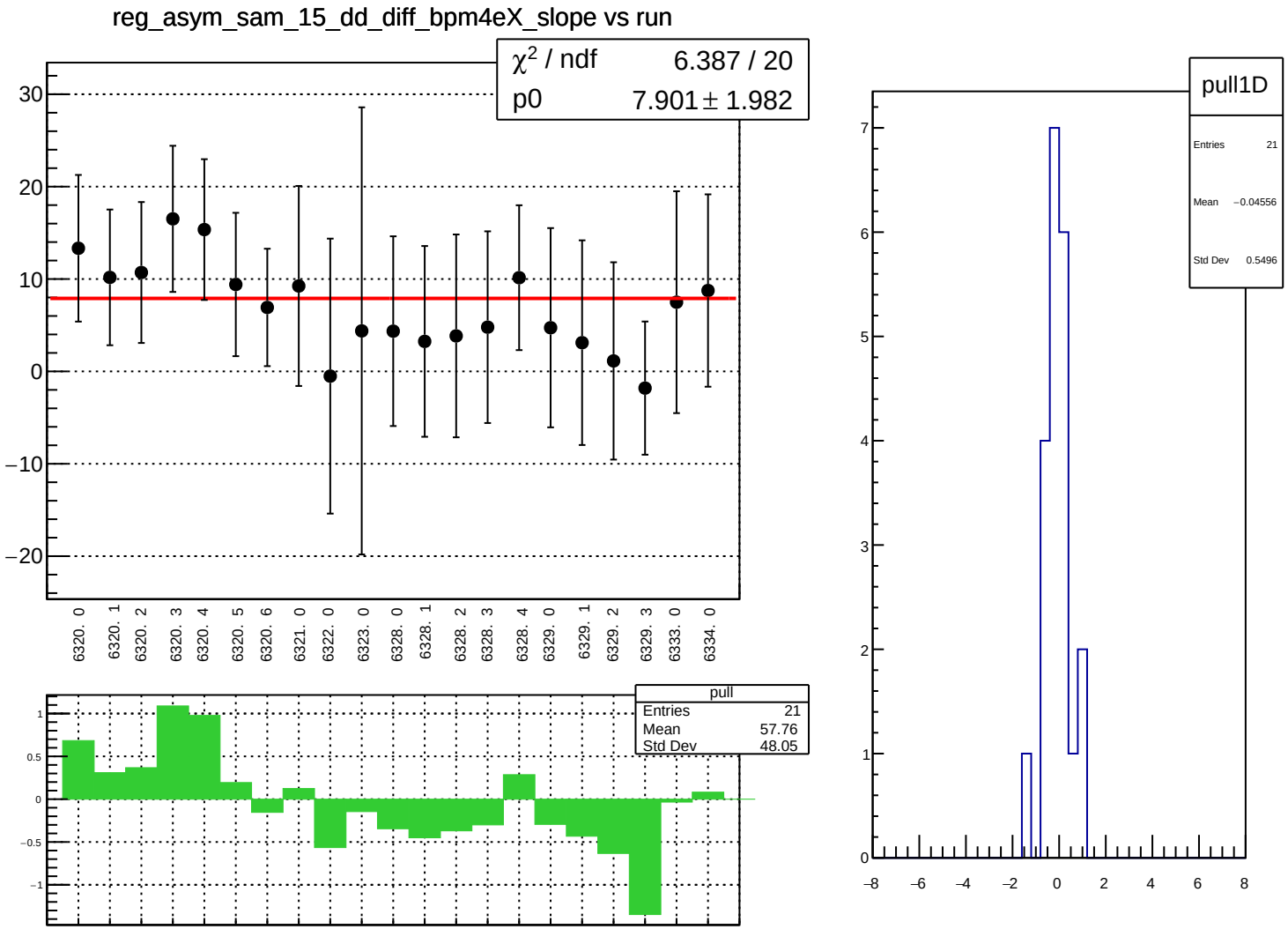

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 3.436 / 20
p0 0.177 ± 0.02964
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2300
Std Dev 2310
0.8
0.6
0.4
0.2
0
−0.2
−0.4

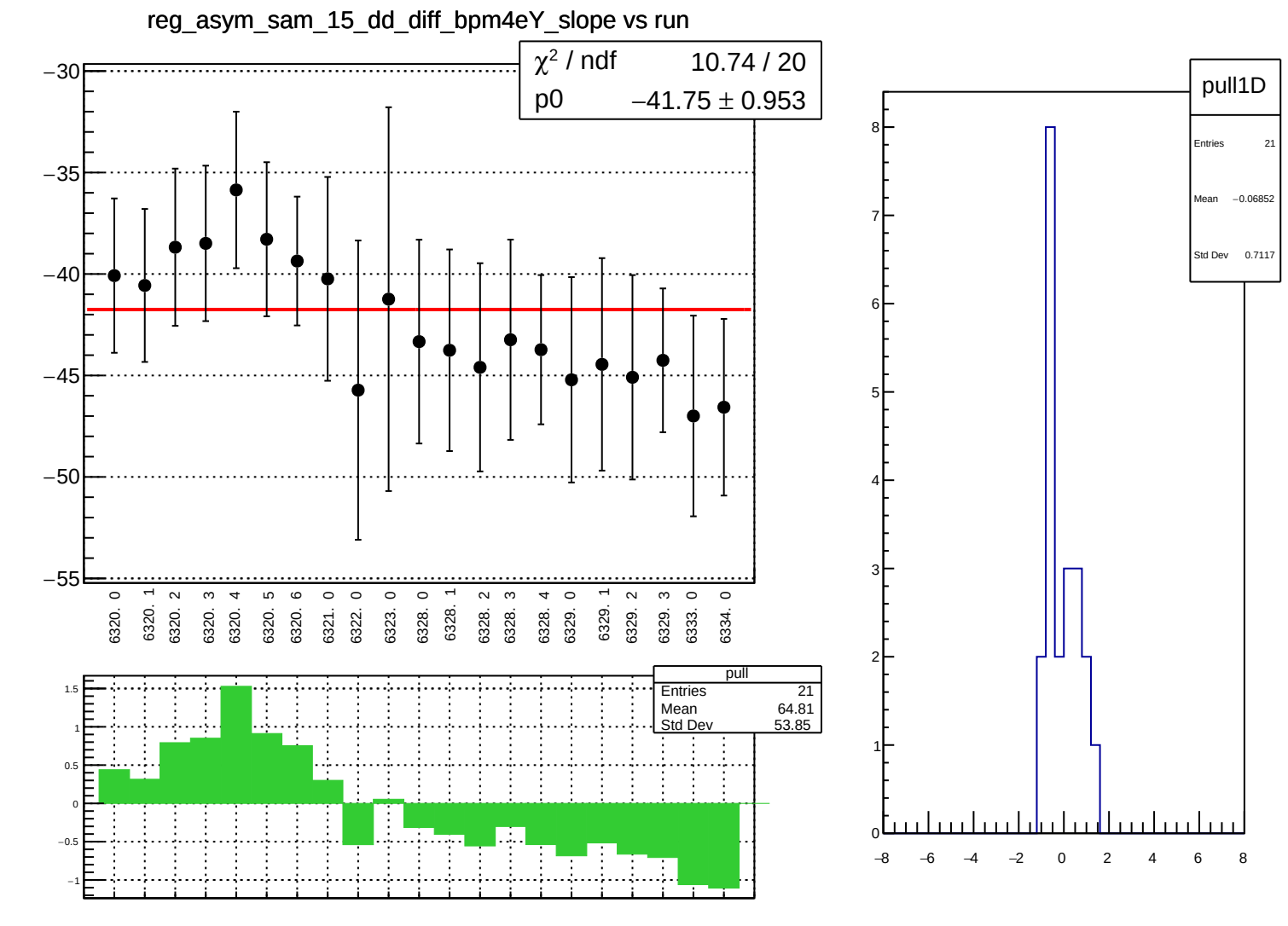

pull1D
Entries 21
Mean −0.0004892
Std Dev 0.4045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

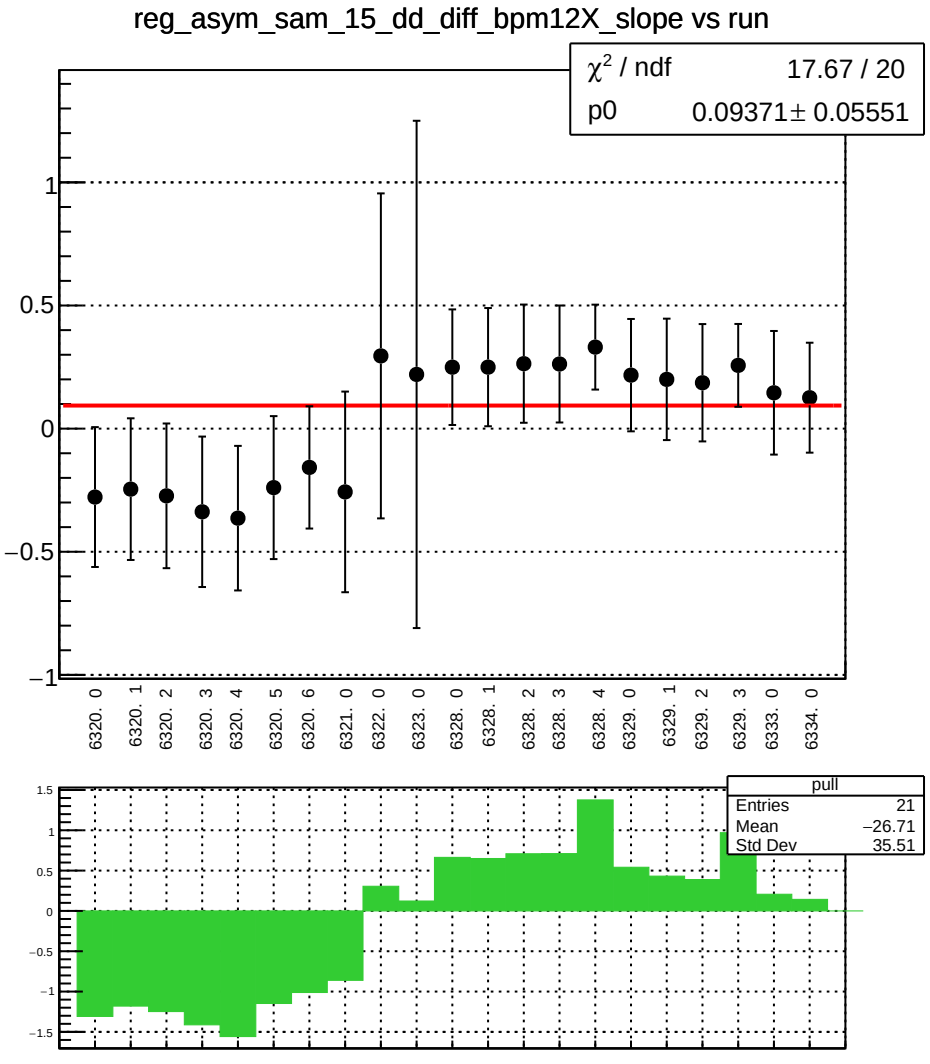

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.69 / 20
p0 −11.15 ± 1.828
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.39
Std Dev 49.68
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.04569
Std Dev 0.5626
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

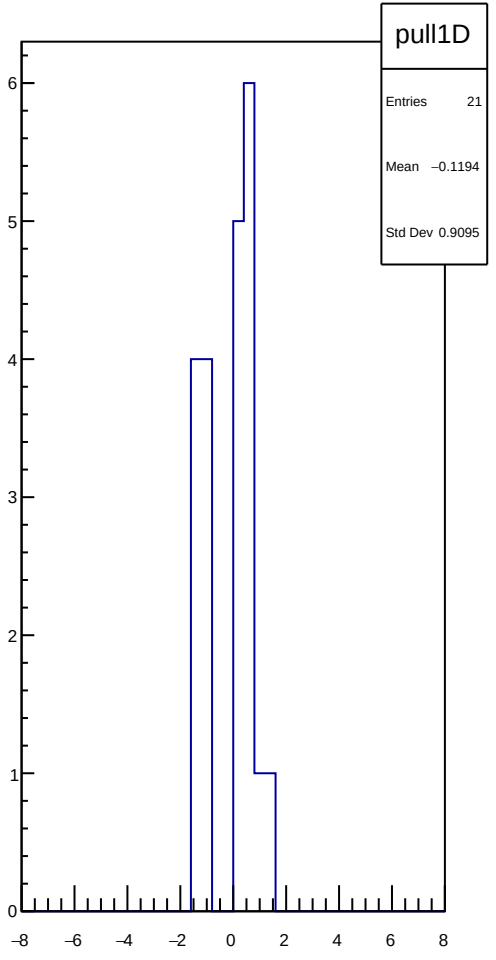

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.469 / 20
p0 −51.63 ± 0.8089
−40
−42
−44
−46
−48
−50
−52
−54
−56
−58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 34.76
Std Dev 23.59
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

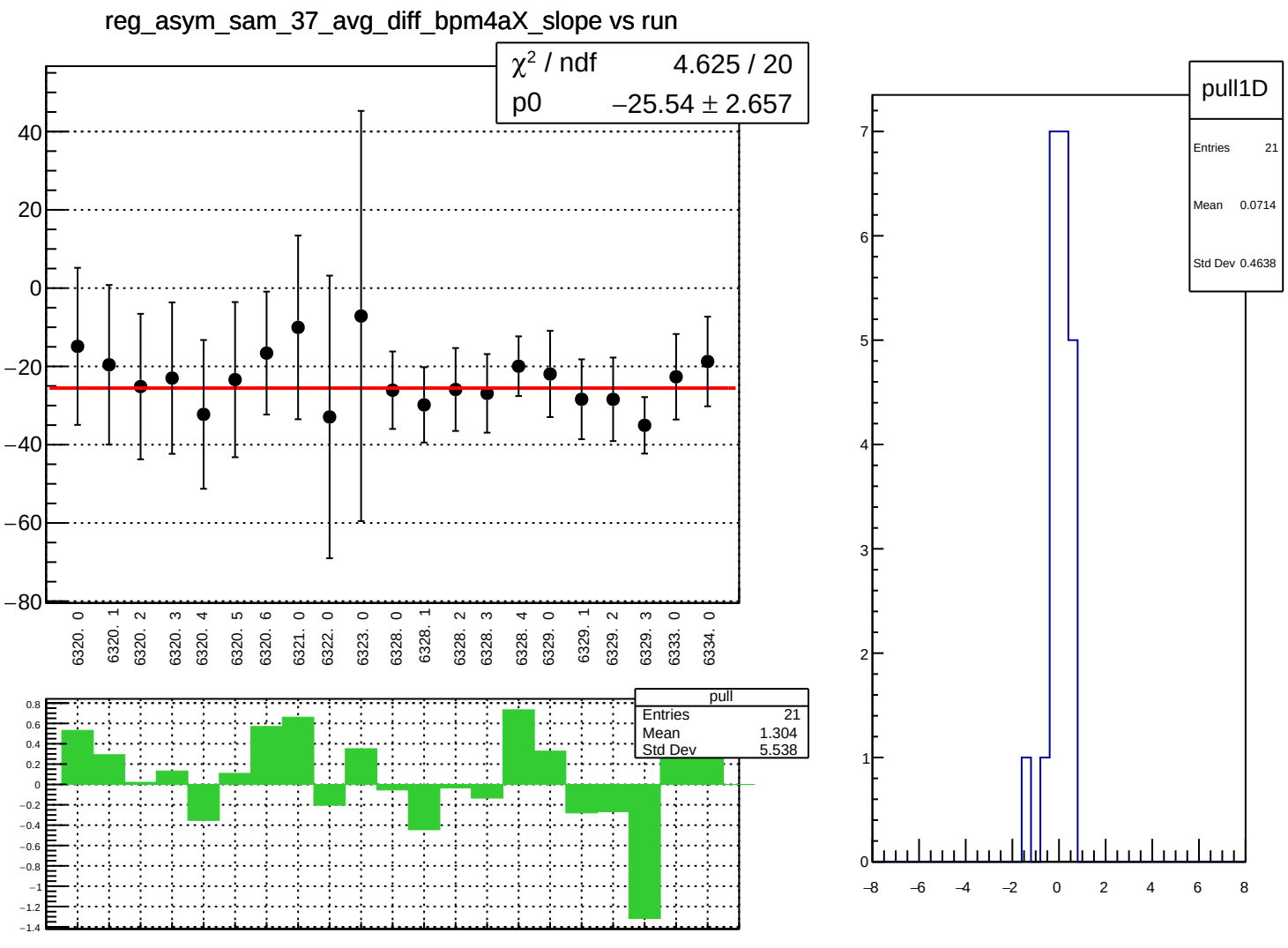

pull1D
Entries 21
Mean 0.06682
Std Dev 0.3363
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

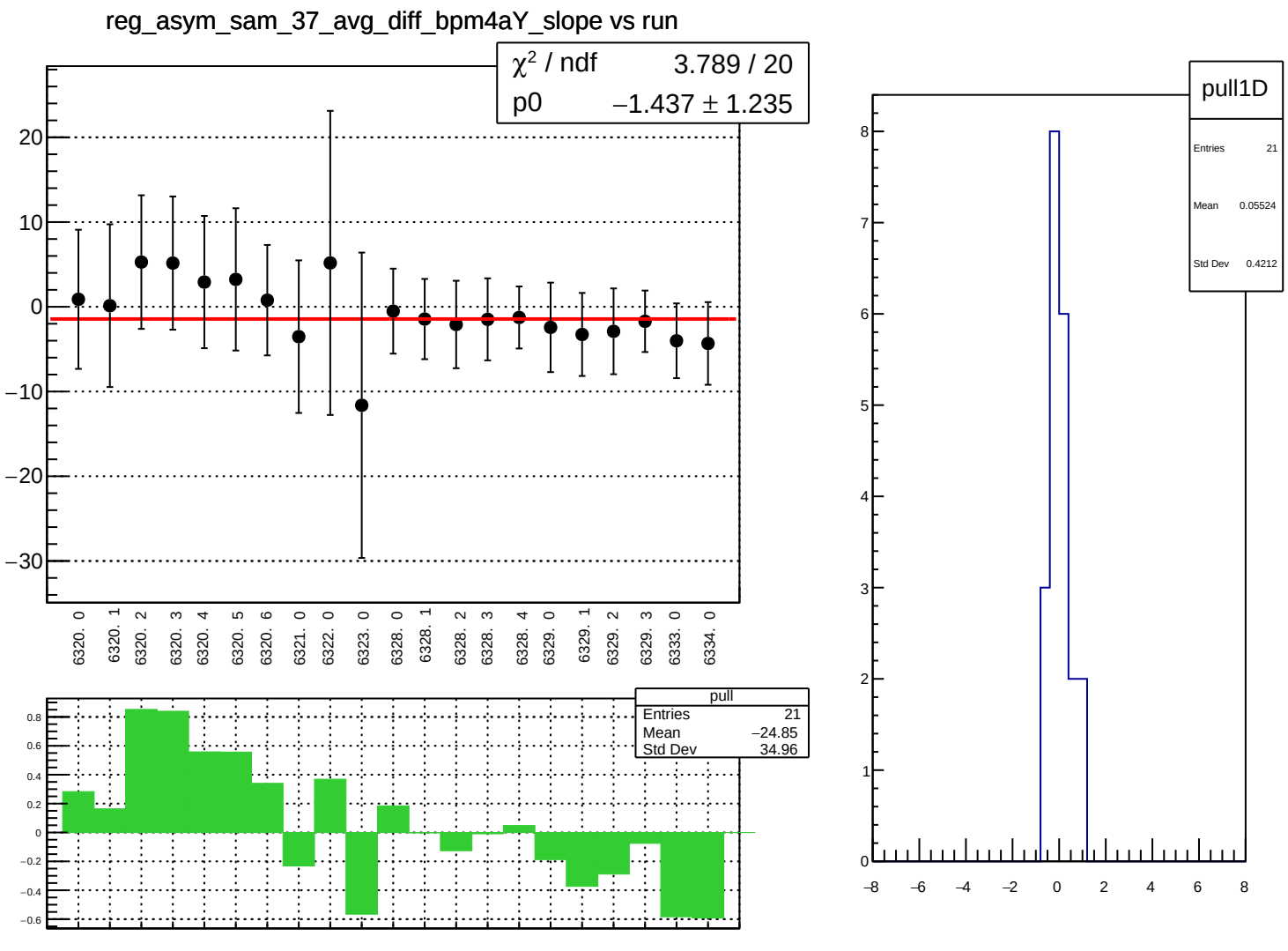

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.387 / 20
p0 7.901 ± 1.982
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.76
Std Dev 48.05
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.04556
Std Dev 0.5496
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

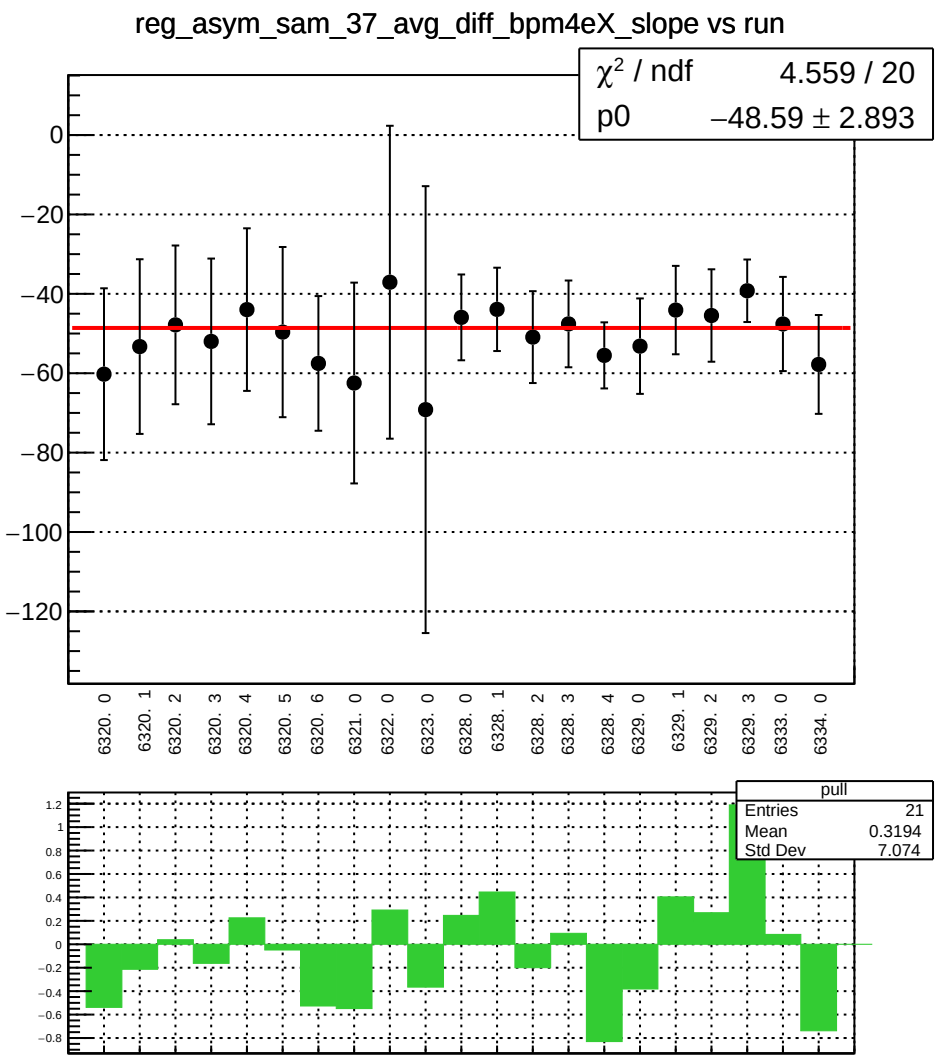

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.74 / 20
p0 −41.75 ± 0.953
−30
−35
−40
−45
−50
−55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 64.81
Std Dev 53.85
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.06852
Std Dev 0.7117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

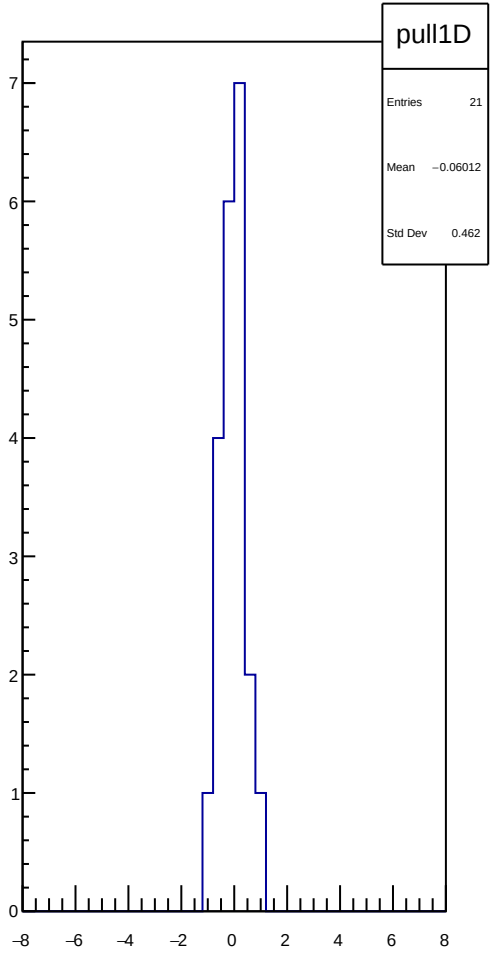

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 17.67 / 20
p0 0.09371± 0.05551
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −26.71
Std Dev 35.51
1.5
1
0.5
0
−0.5
−1
−1.5

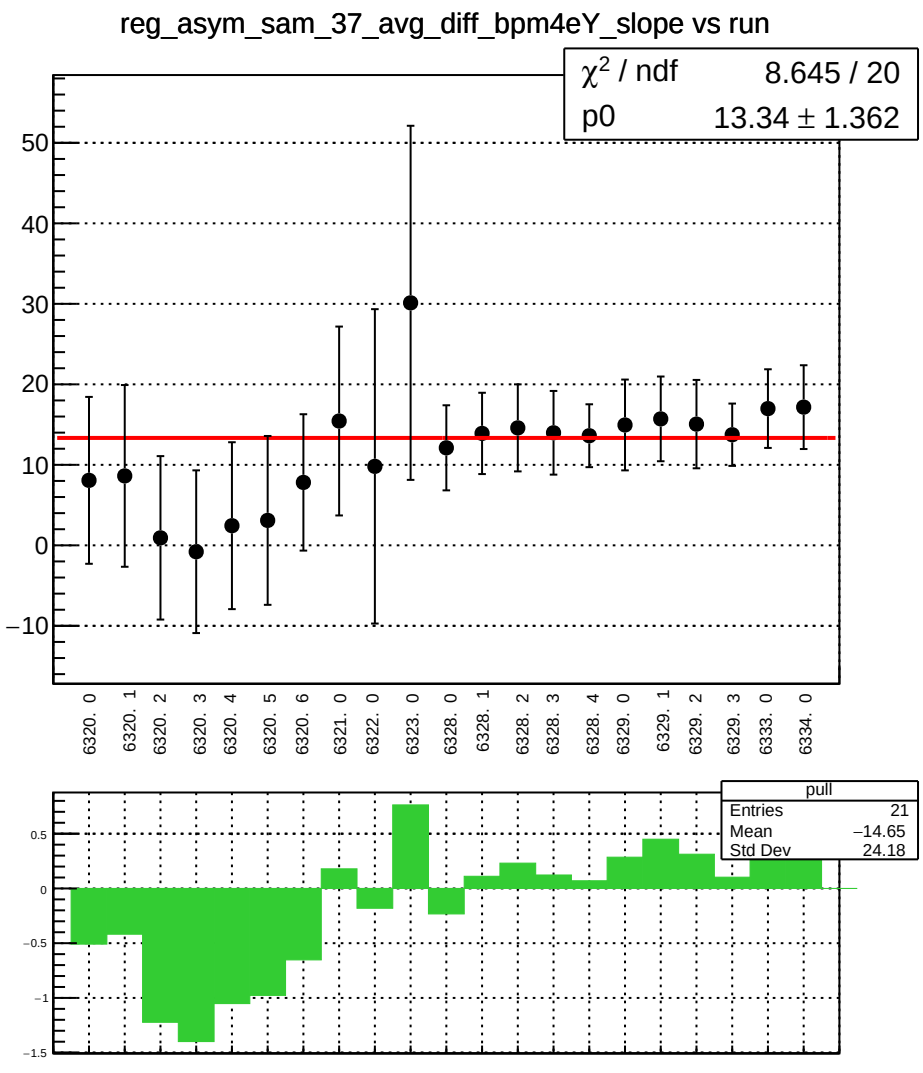

pull1D
Entries 21
Mean −0.1194
Std Dev 0.9095
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

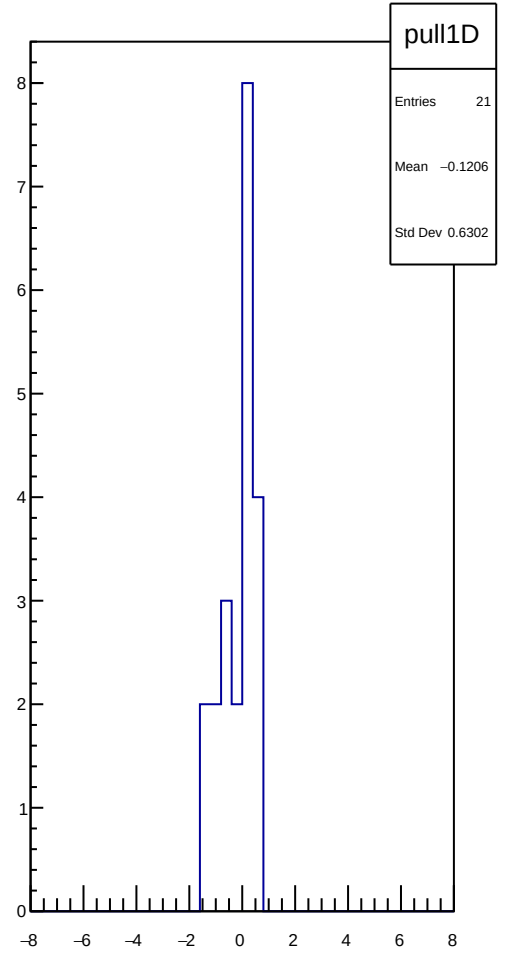

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.625 / 20
p0 −25.54 ± 2.657
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.304
Std Dev 5.538
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 21
Mean 0.0714
Std Dev 0.4638
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

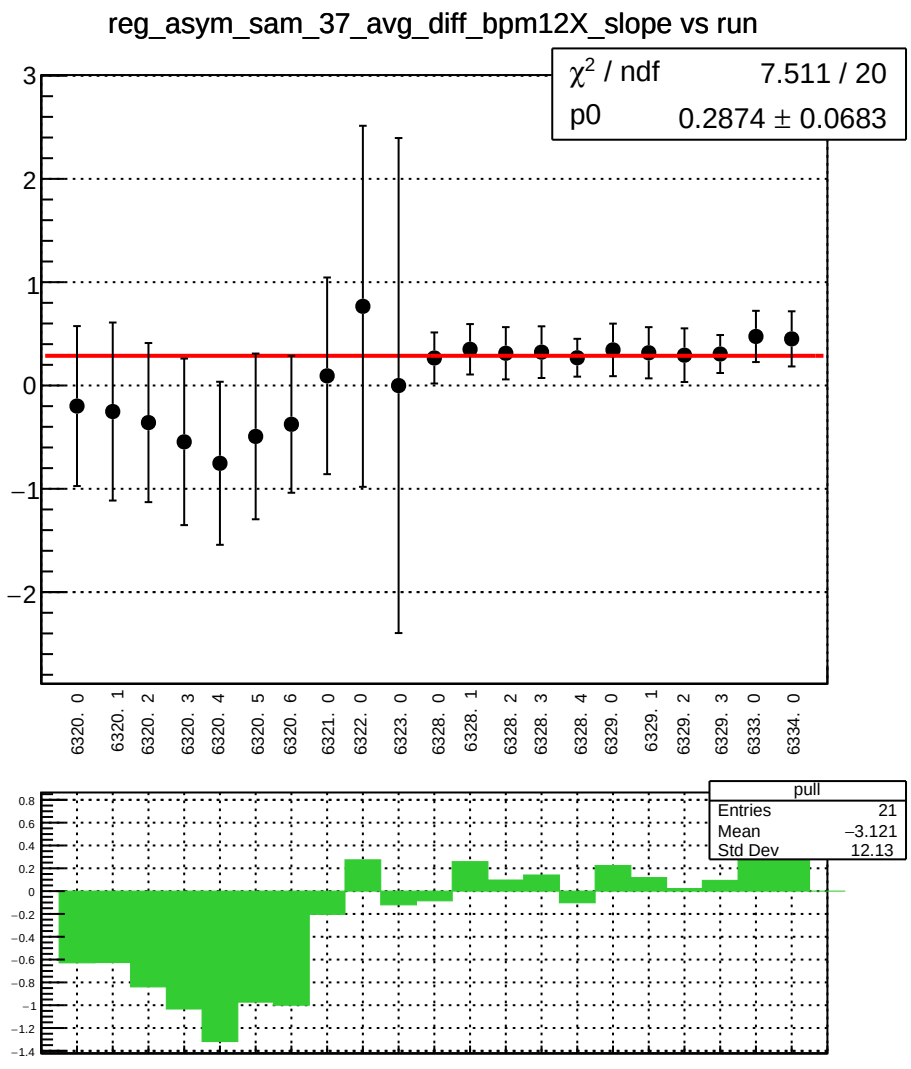

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.789 / 20
p0 −1.437 ± 1.235
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −24.85
Std Dev 34.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.05524
Std Dev 0.4212
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

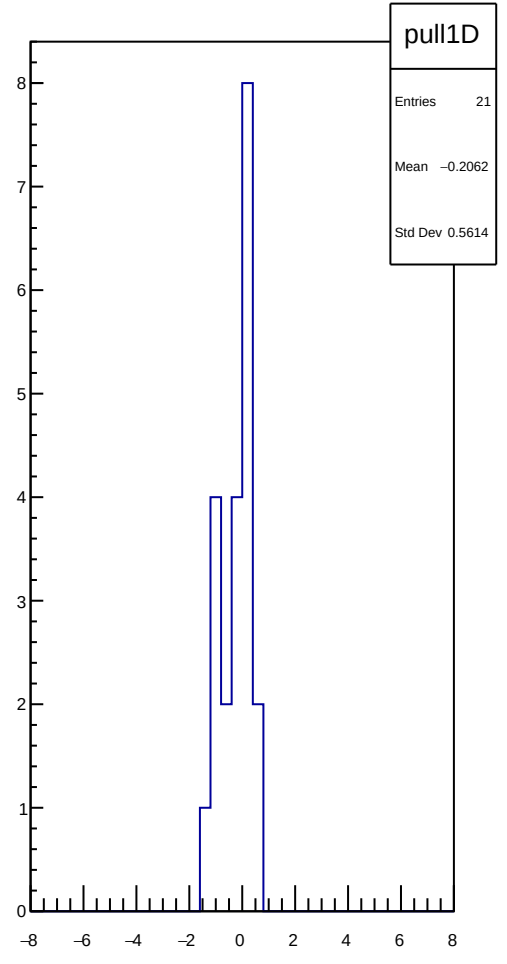

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.559 / 20
p0 −48.59 ± 2.893
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.3194
Std Dev 7.074
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

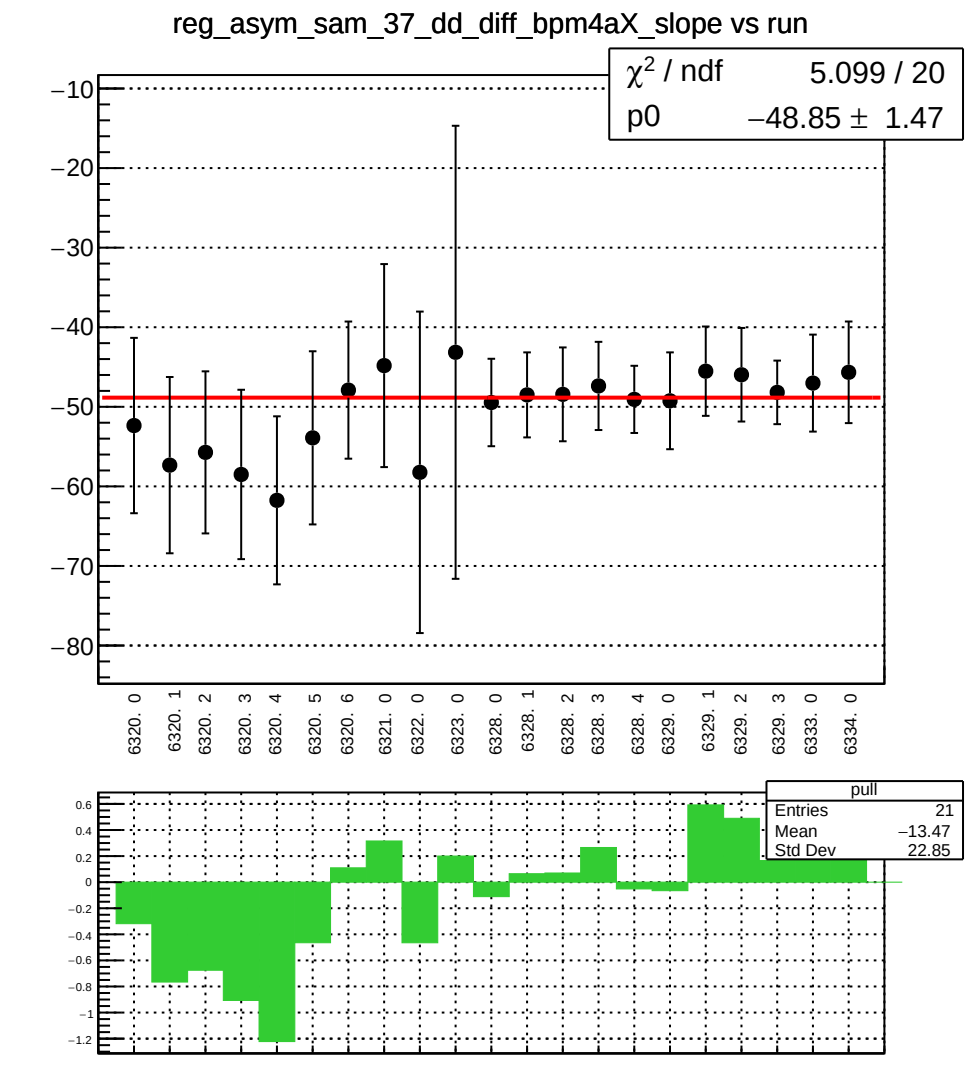

pull1D
Entries 21
Mean −0.06012
Std Dev 0.462
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

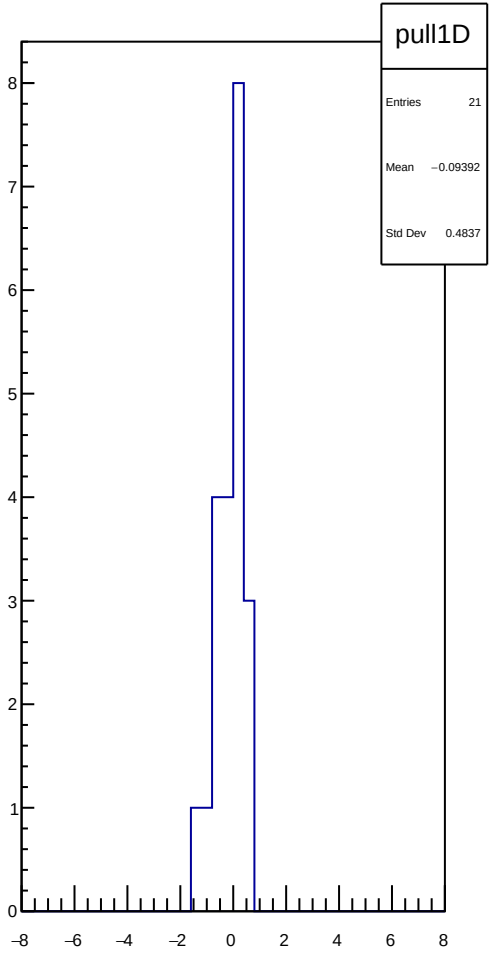

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.645 / 20
p0 13.34 ± 1.362
50
40
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.65
Std Dev 24.18
0.5
0
−0.5
−1
−1.5

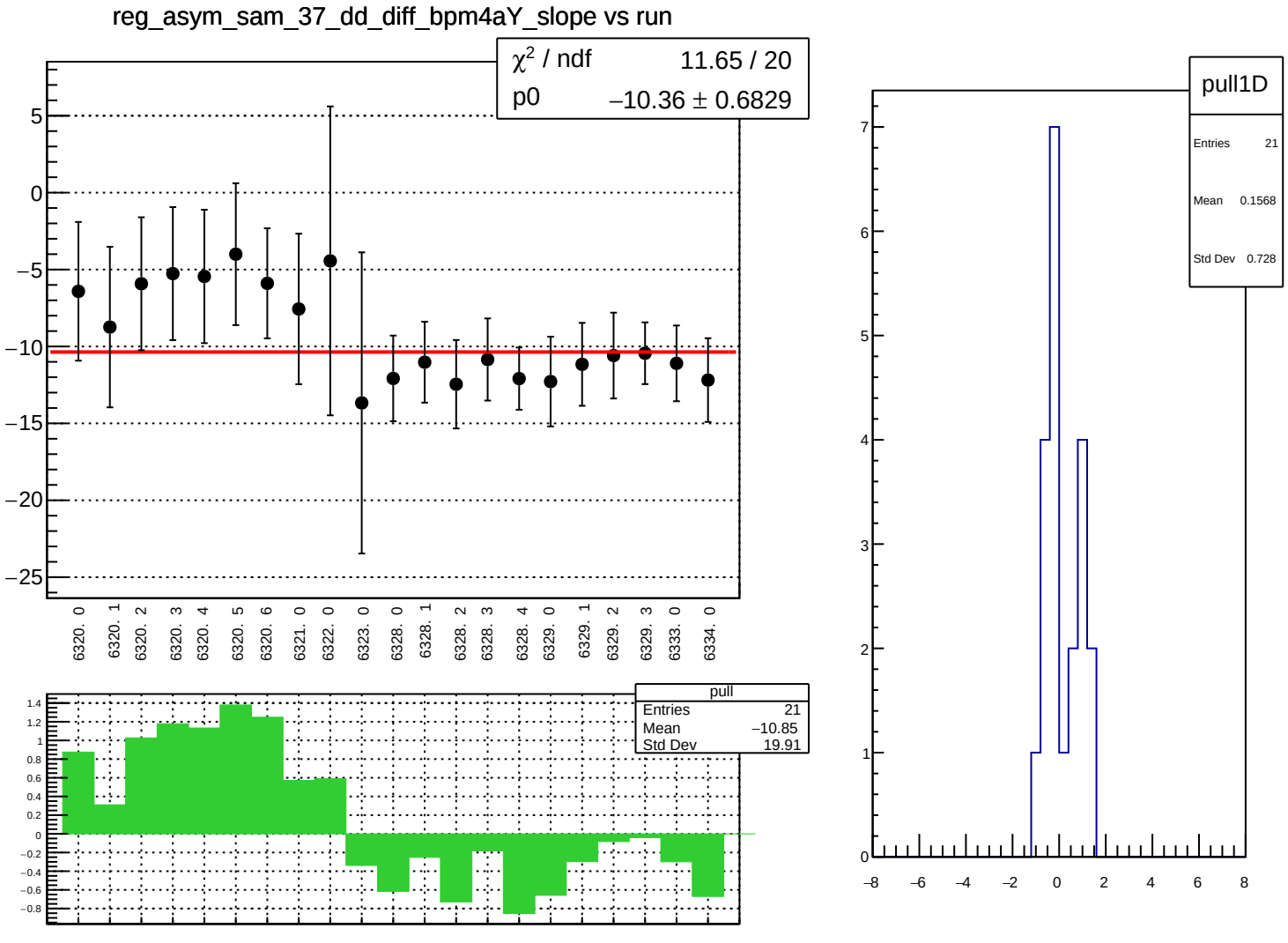

pull1D
Entries 21
Mean −0.1206
Std Dev 0.6302
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

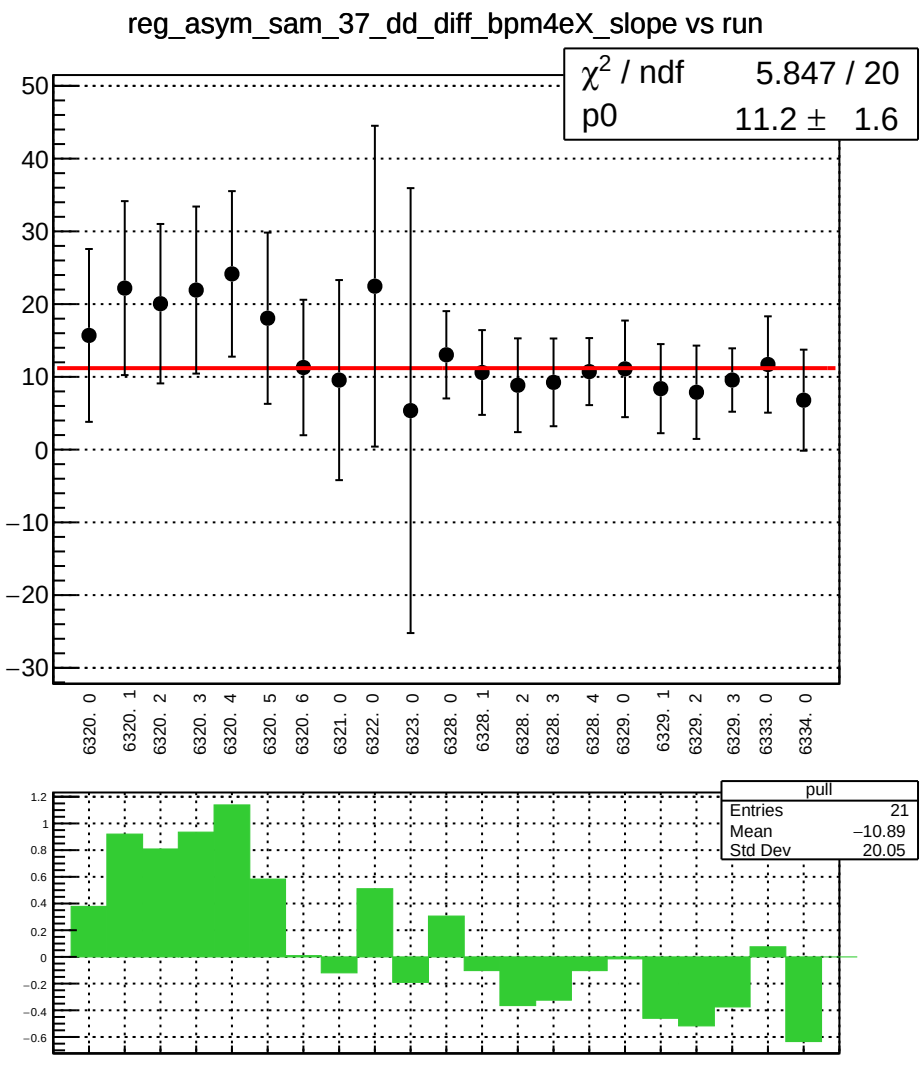

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 7.511 / 20
p0 0.2874 ± 0.0683
3
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.121
Std Dev 12.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

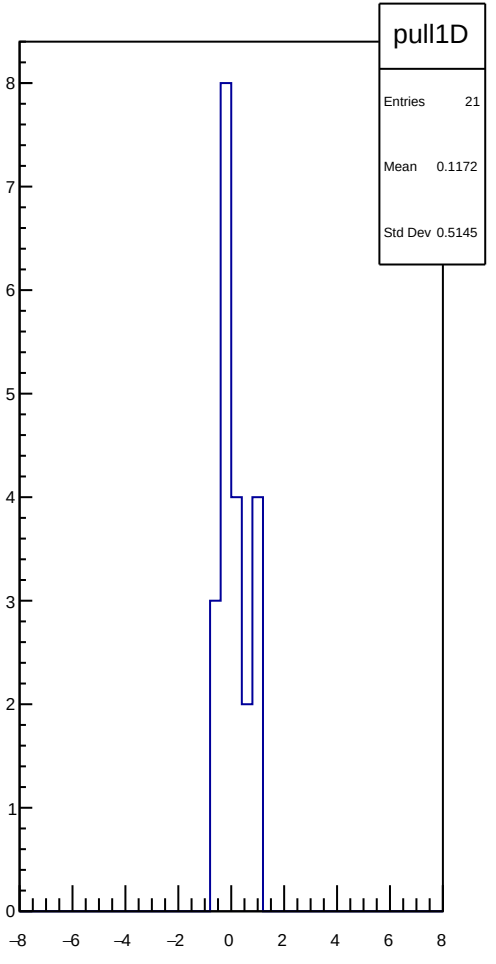

pull1D
Entries 21
Mean −0.2062
Std Dev 0.5614
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

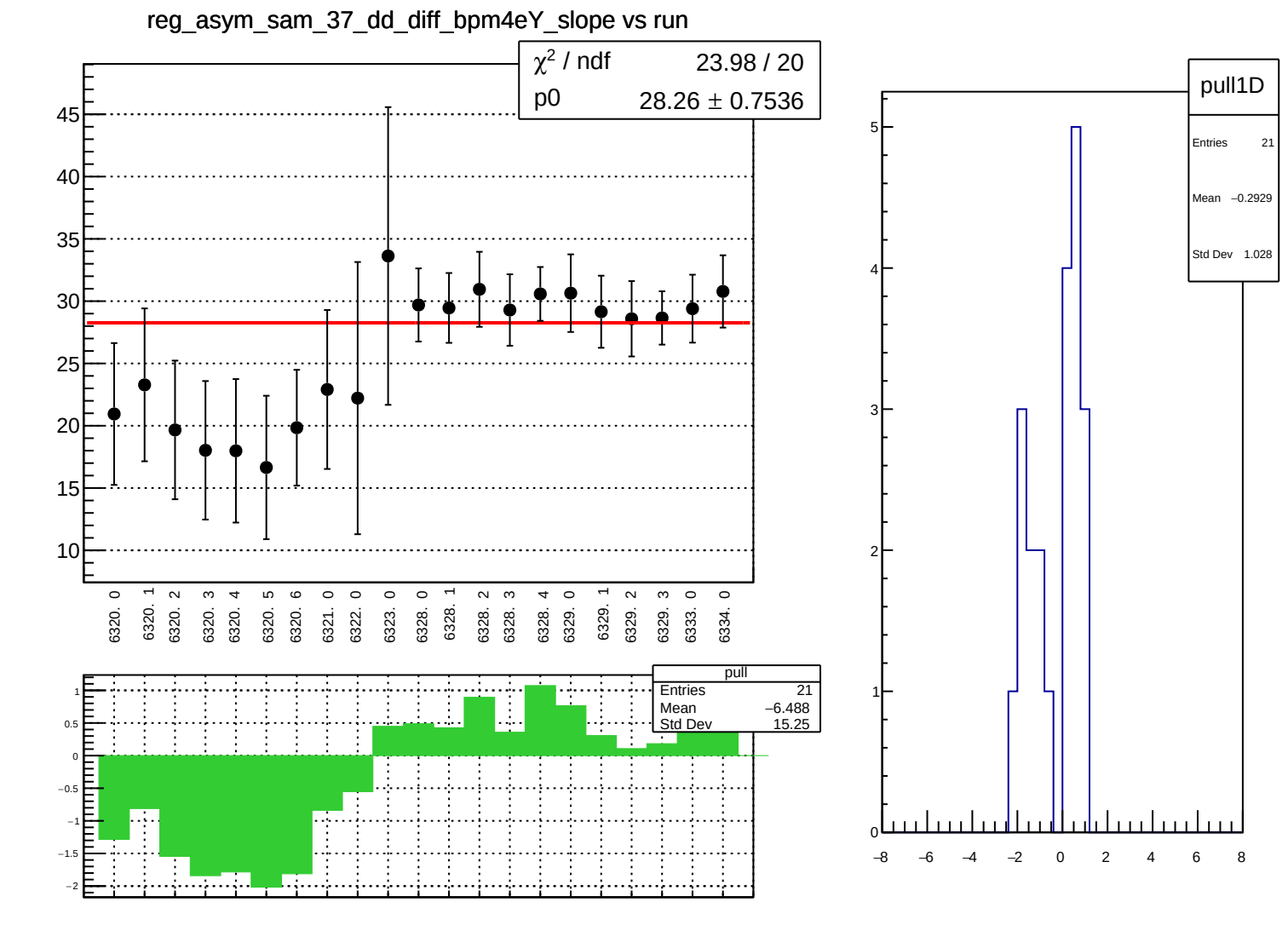

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.099 / 20
p0 −48.85 ± 1.47
−10
−20
−30
−40
−50
−60
−70
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.47
Std Dev 22.85
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

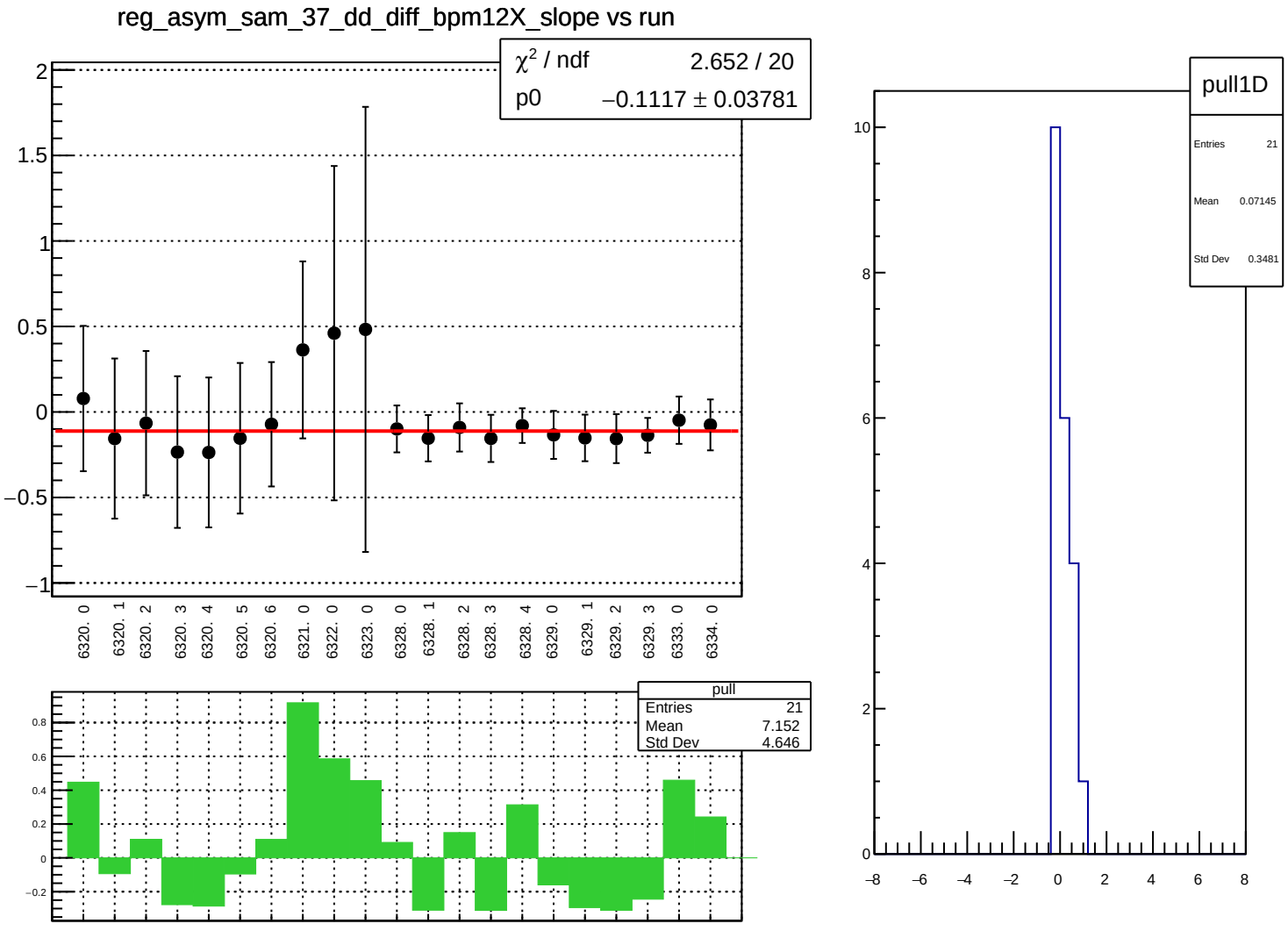

pull1D
Entries 21
Mean −0.09392
Std Dev 0.4837
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

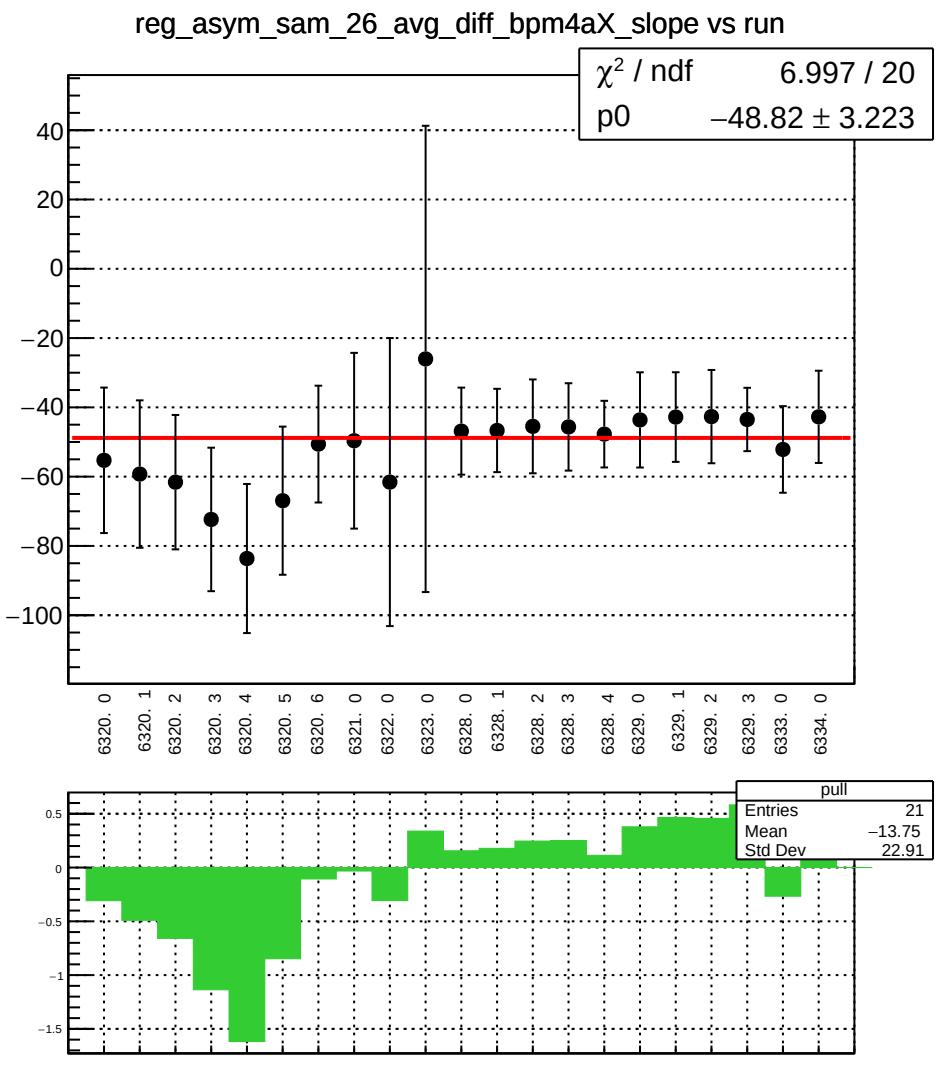

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.65 / 20
p0 −10.36 ± 0.6829
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.85
Std Dev 19.91
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.1568
Std Dev 0.728
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

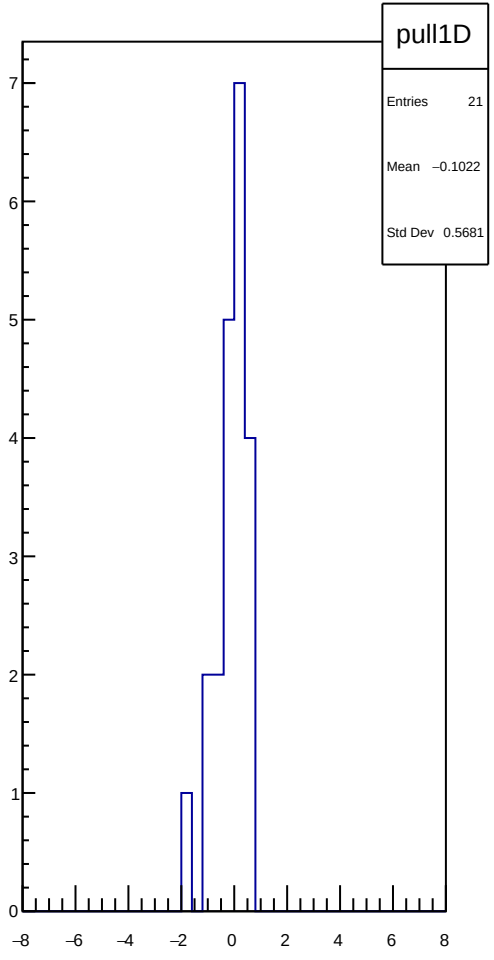

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.847 / 20
p0 11.2 ± 1.6
50
40
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.89
Std Dev 20.05
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

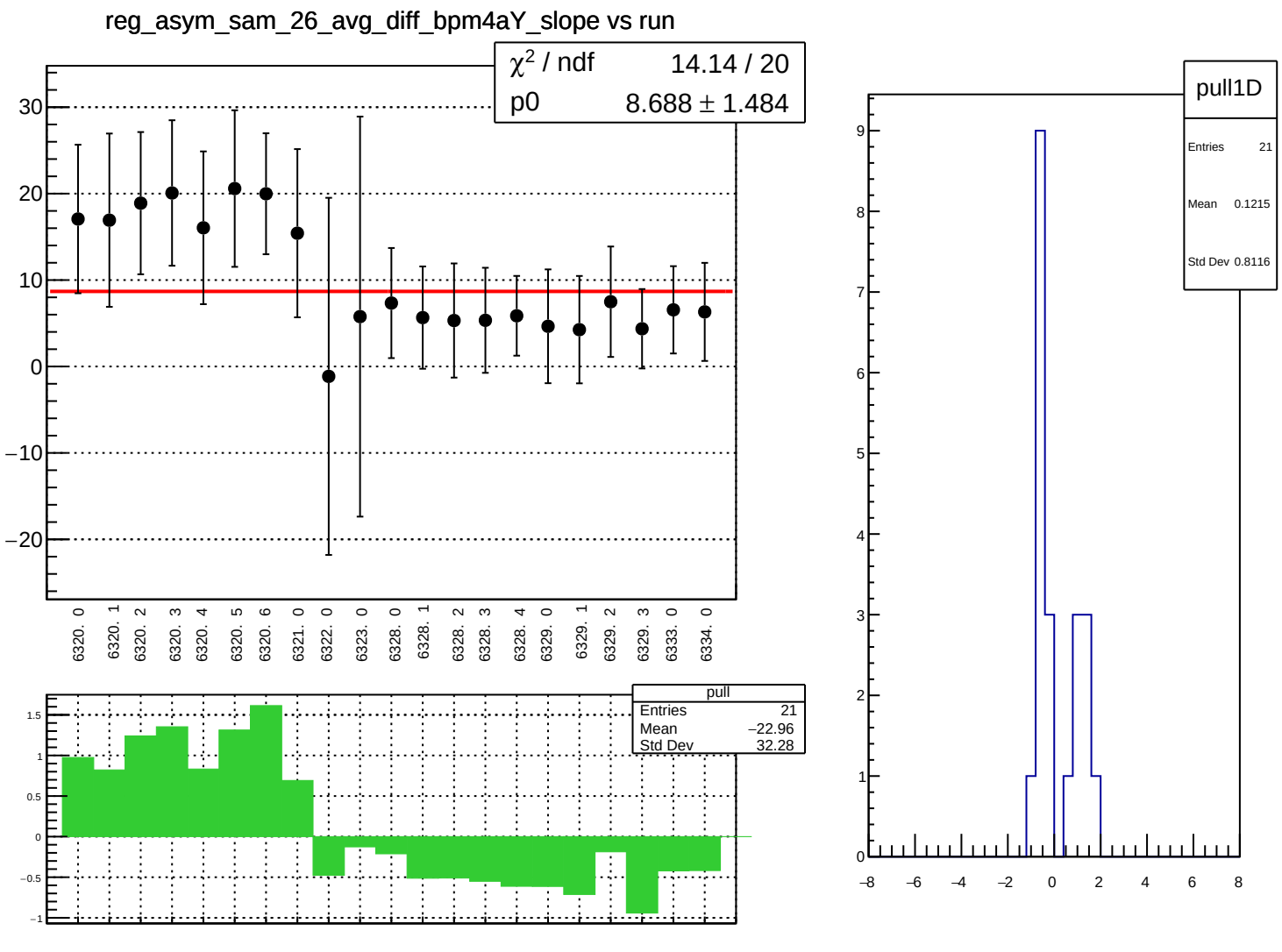

pull1D
Entries 21
Mean 0.1172
Std Dev 0.5145
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

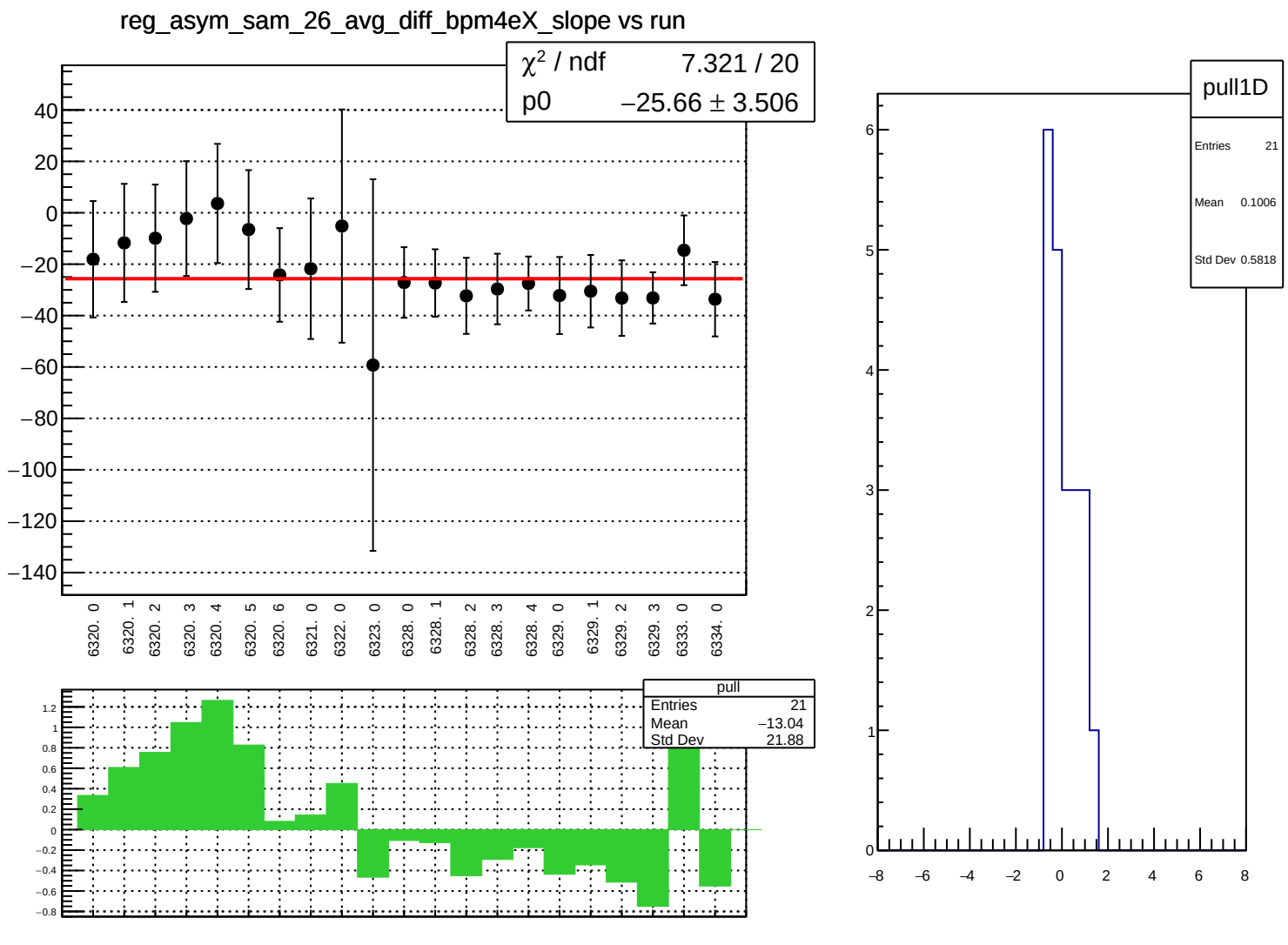

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.98 / 20
p0 28.26 ± 0.7536
45
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.488
Std Dev 15.25
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.2929
Std Dev 1.028
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

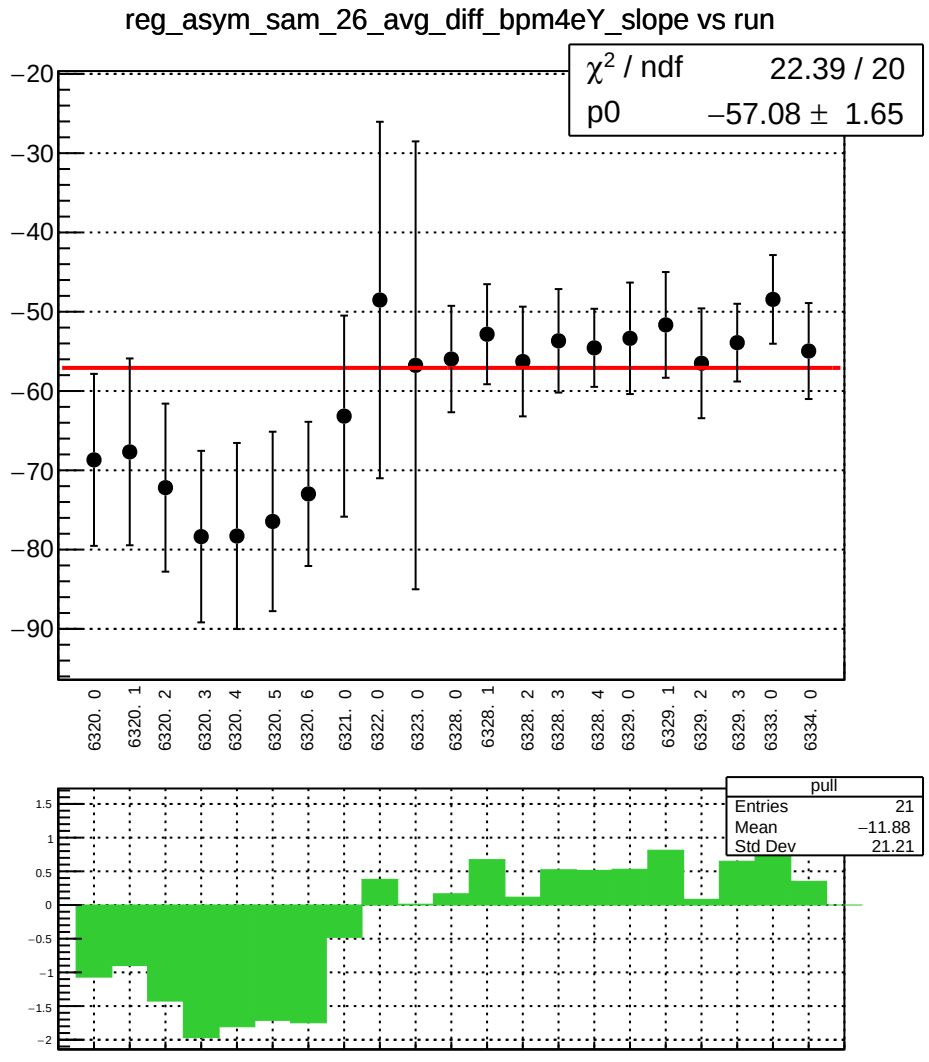

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.652 / 20
p0 −0.1117 ± 0.03781
2
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 7.152
Std Dev 4.646
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 21
Mean 0.07145
Std Dev 0.3481
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

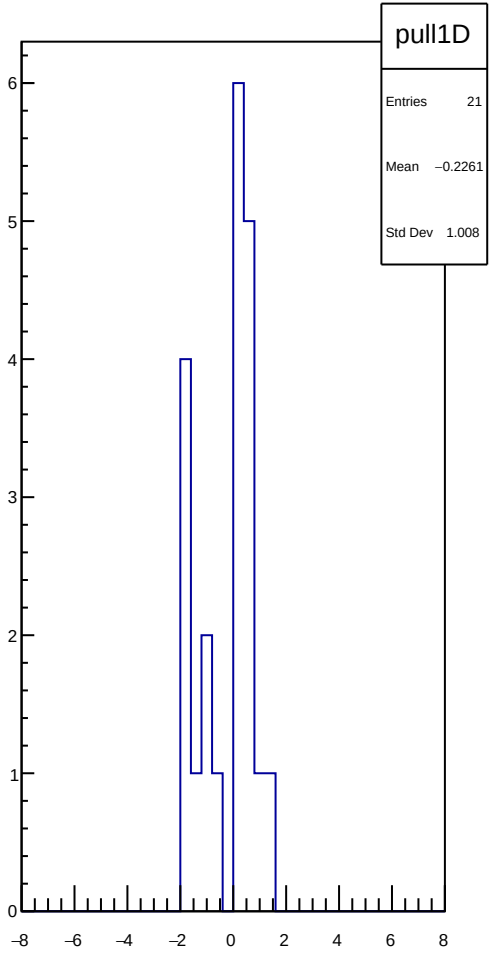

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.997 / 20
p0 −48.82 ± 3.223
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.75
Std Dev 22.91
0.5
0
−0.5
−1
−1.5

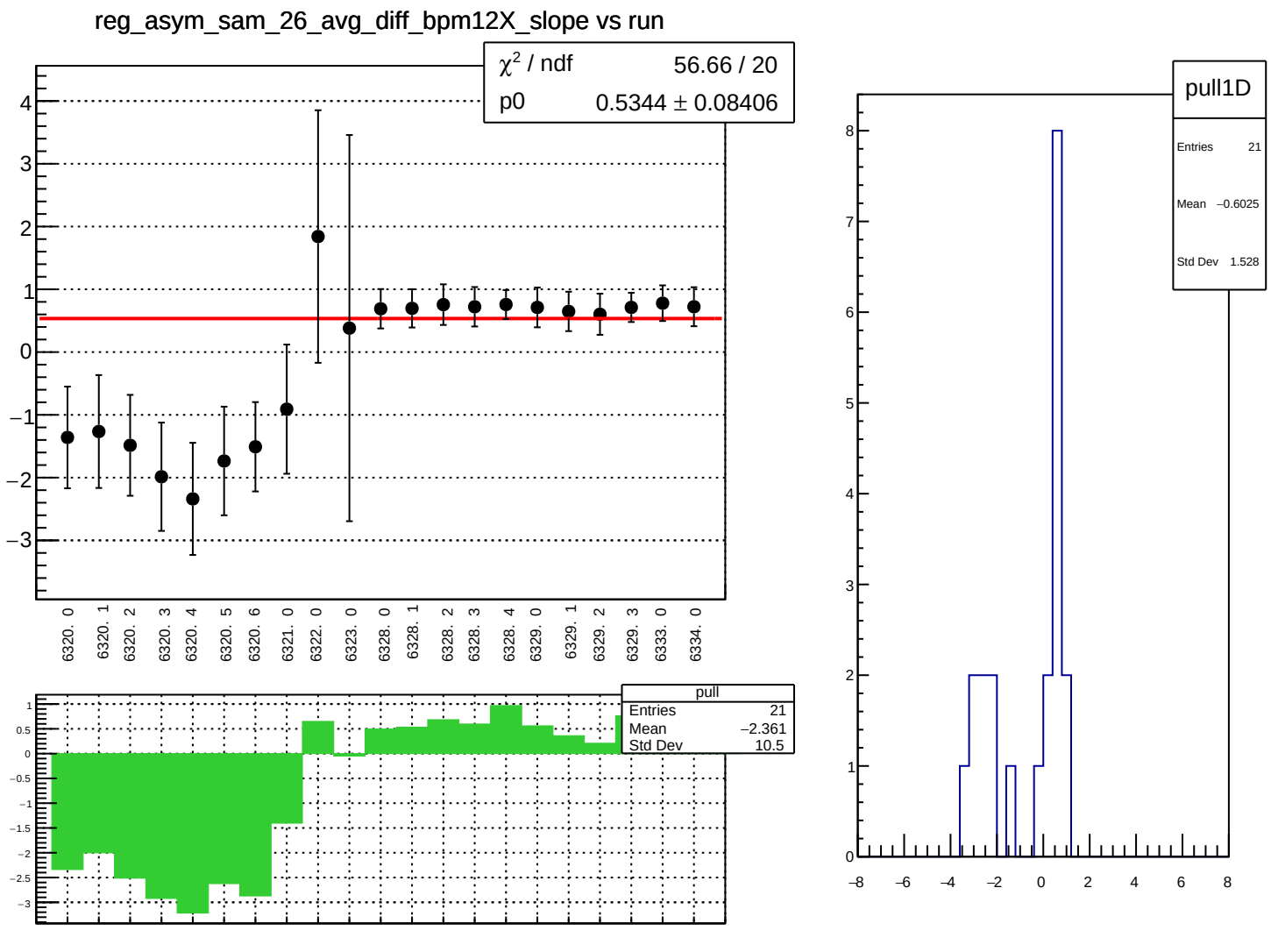

pull1D
Entries 21
Mean −0.1022
Std Dev 0.5681
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

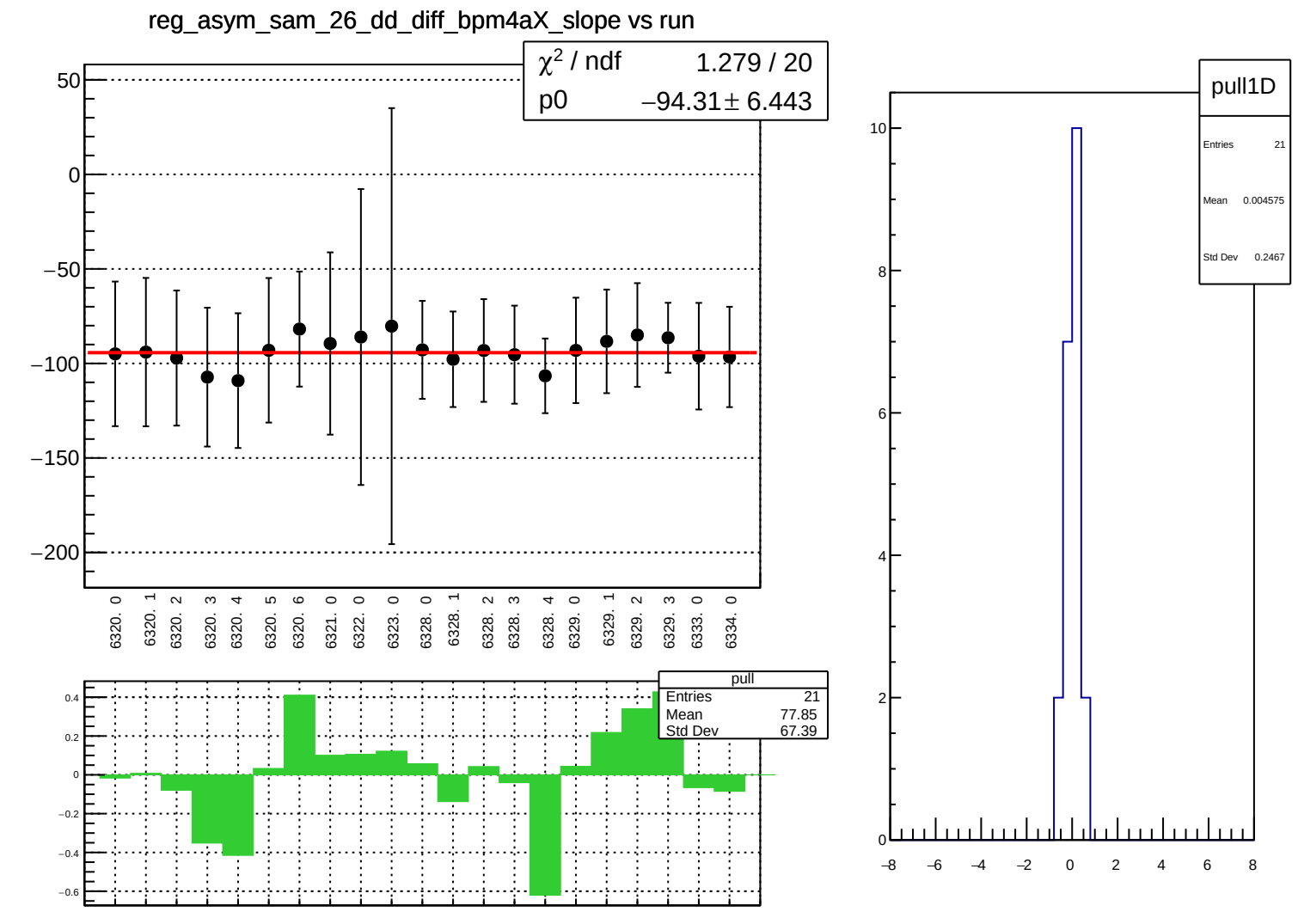

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.14 / 20
p0 8.688 ± 1.484
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −22.96
Std Dev 32.28
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.1215
Std Dev 0.8116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

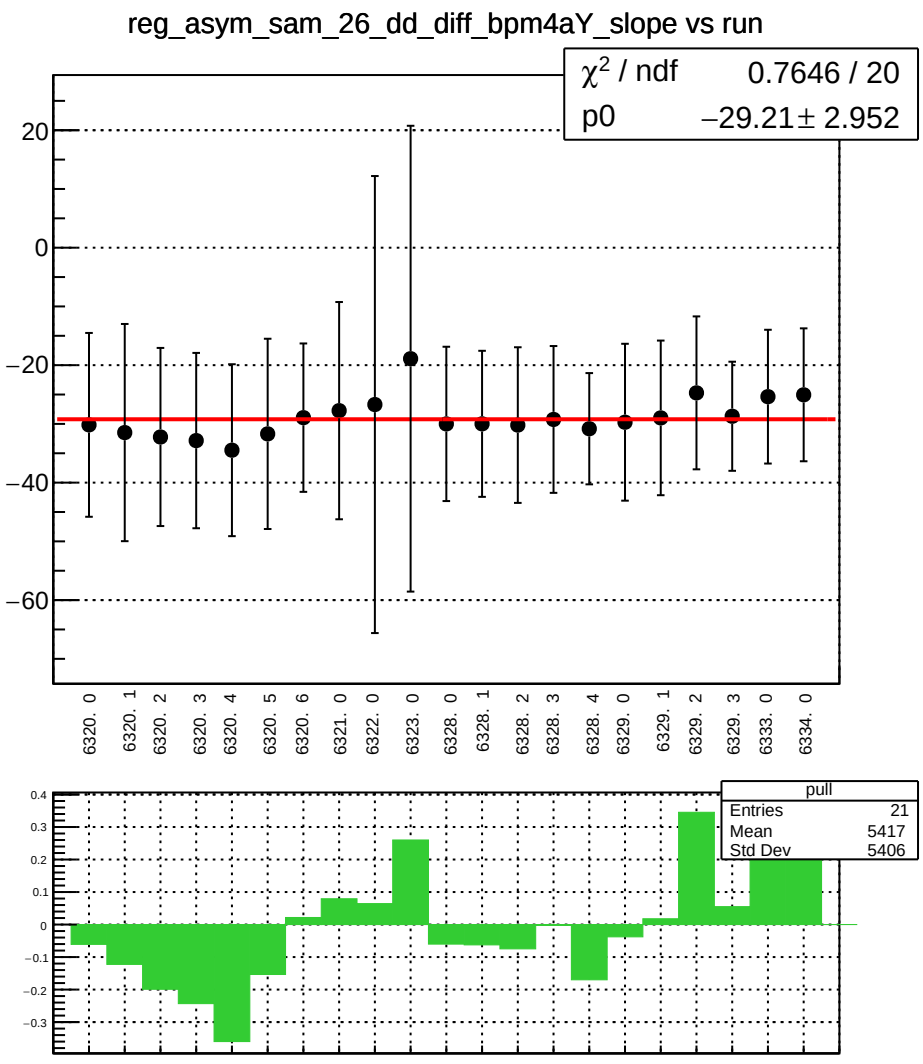

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.321 / 20
p0 −25.66 ± 3.506
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.04
Std Dev 21.88
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.1006
Std Dev 0.5818
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

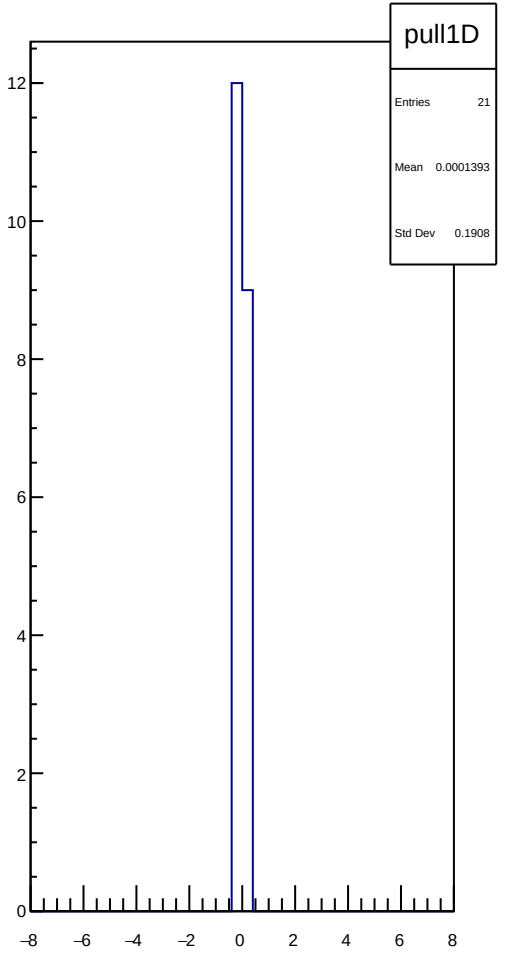

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.39 / 20
p0 −57.08 ± 1.65
−20
−30
−40
−50
−60
−70
−80
−90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −11.88
Std Dev 21.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

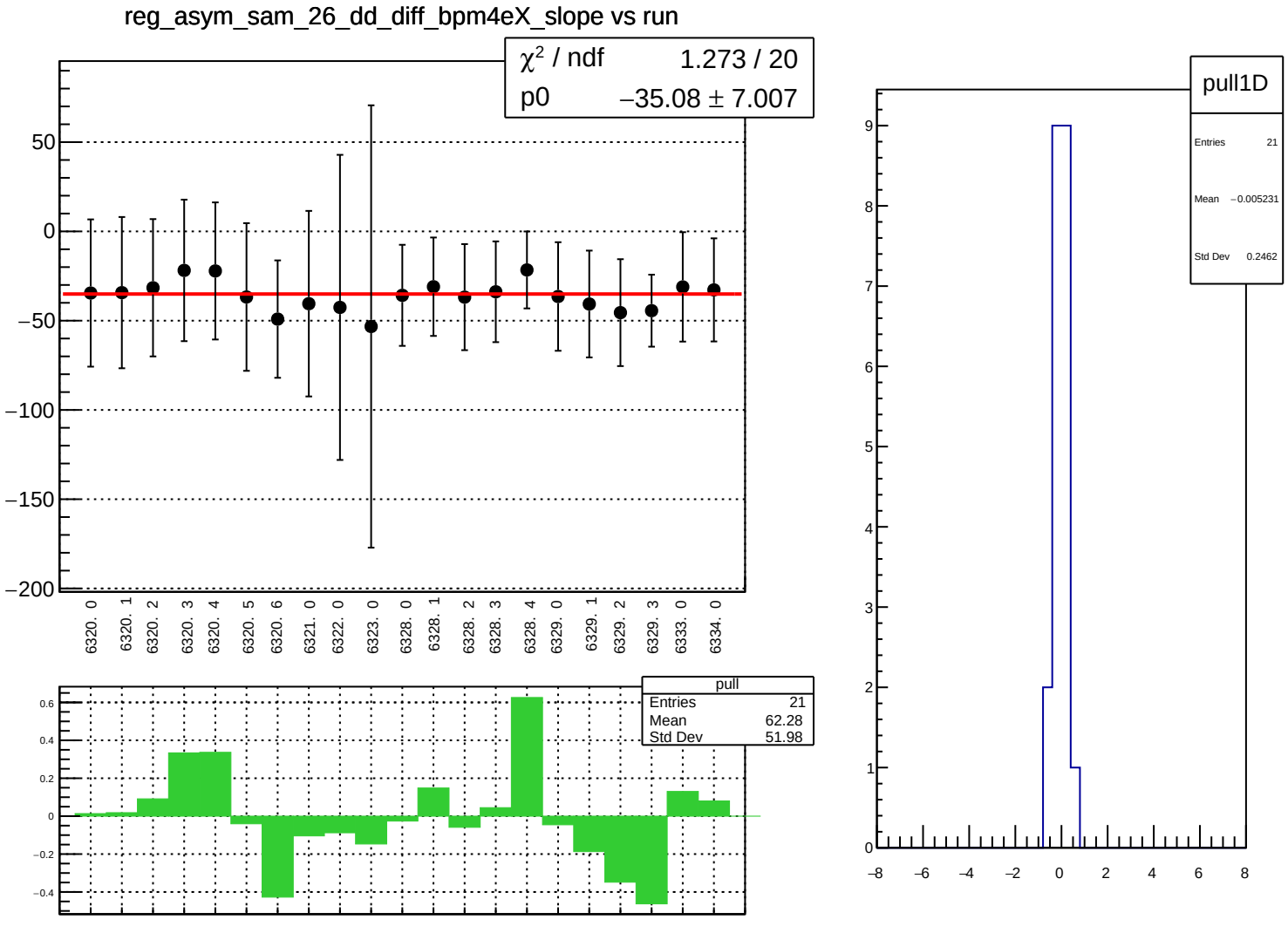

pull1D
Entries 21
Mean −0.2261
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

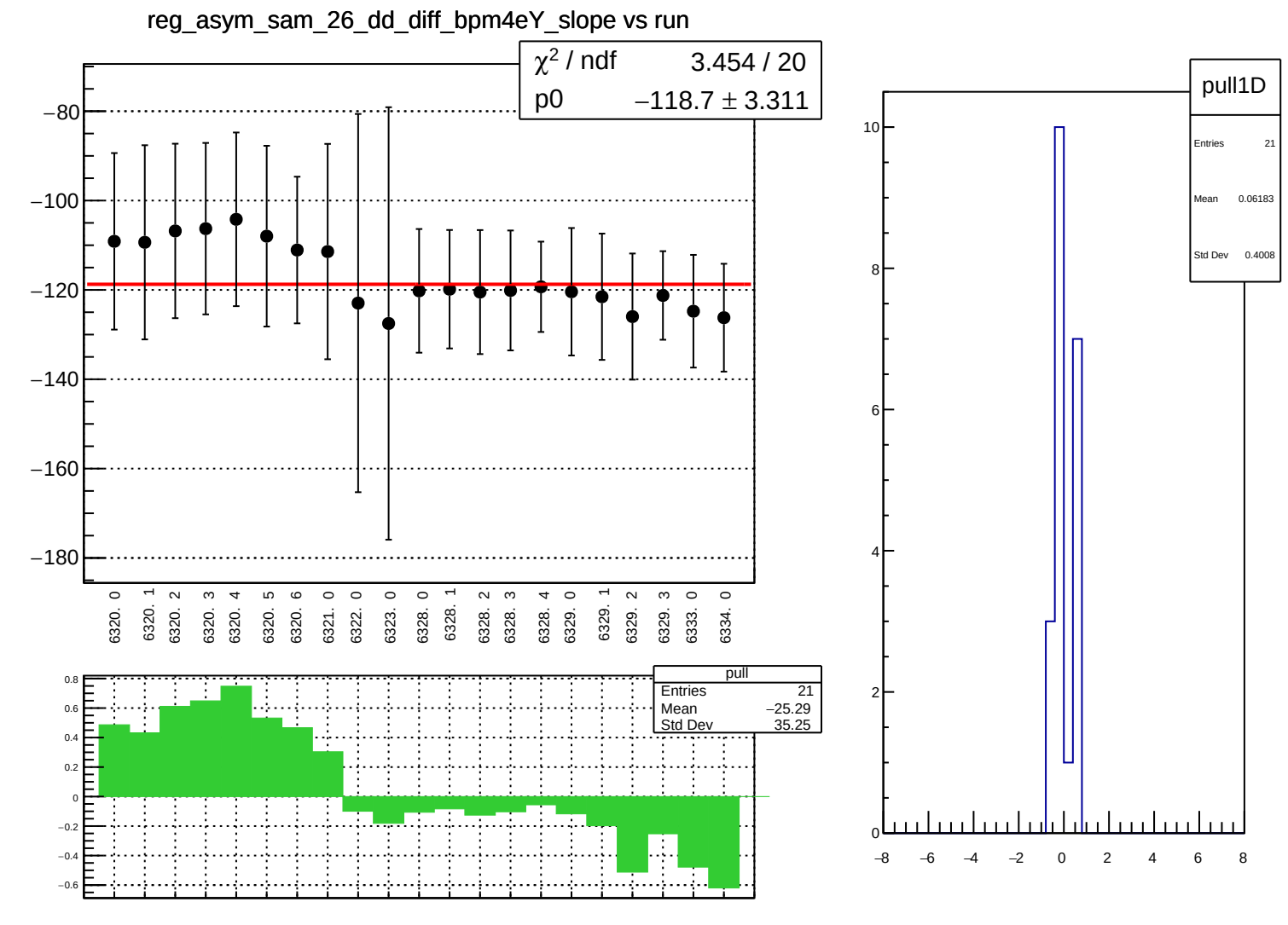

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 56.66 / 20
p0 0.5344 ± 0.08406
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.361
Std Dev 10.5
pull1D
Entries 21
Mean −0.6025
Std Dev 1.528

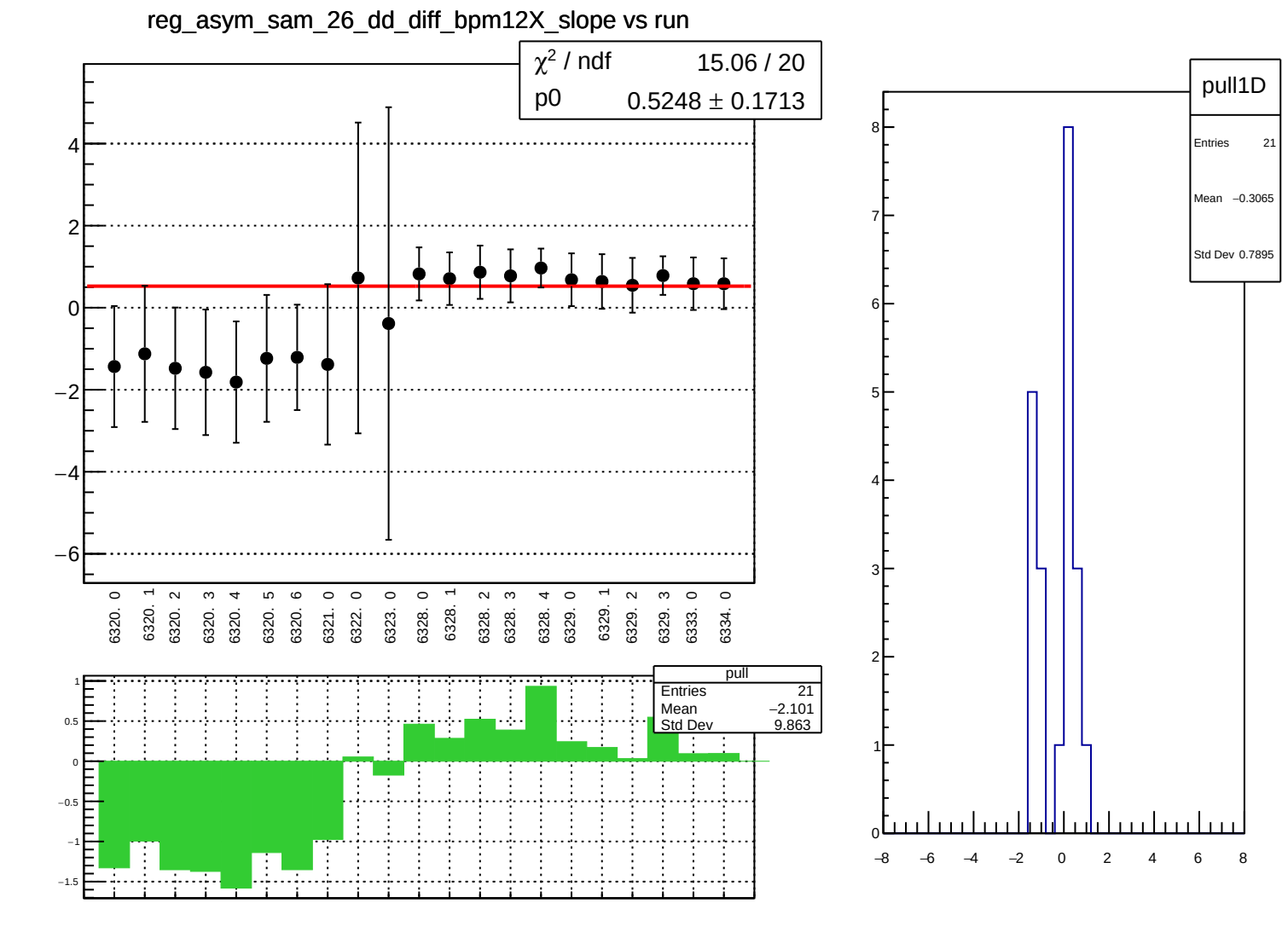

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.279 / 20
p0 −94.31 ± 6.443
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 77.85
Std Dev 67.39
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.004575
Std Dev 0.2467
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

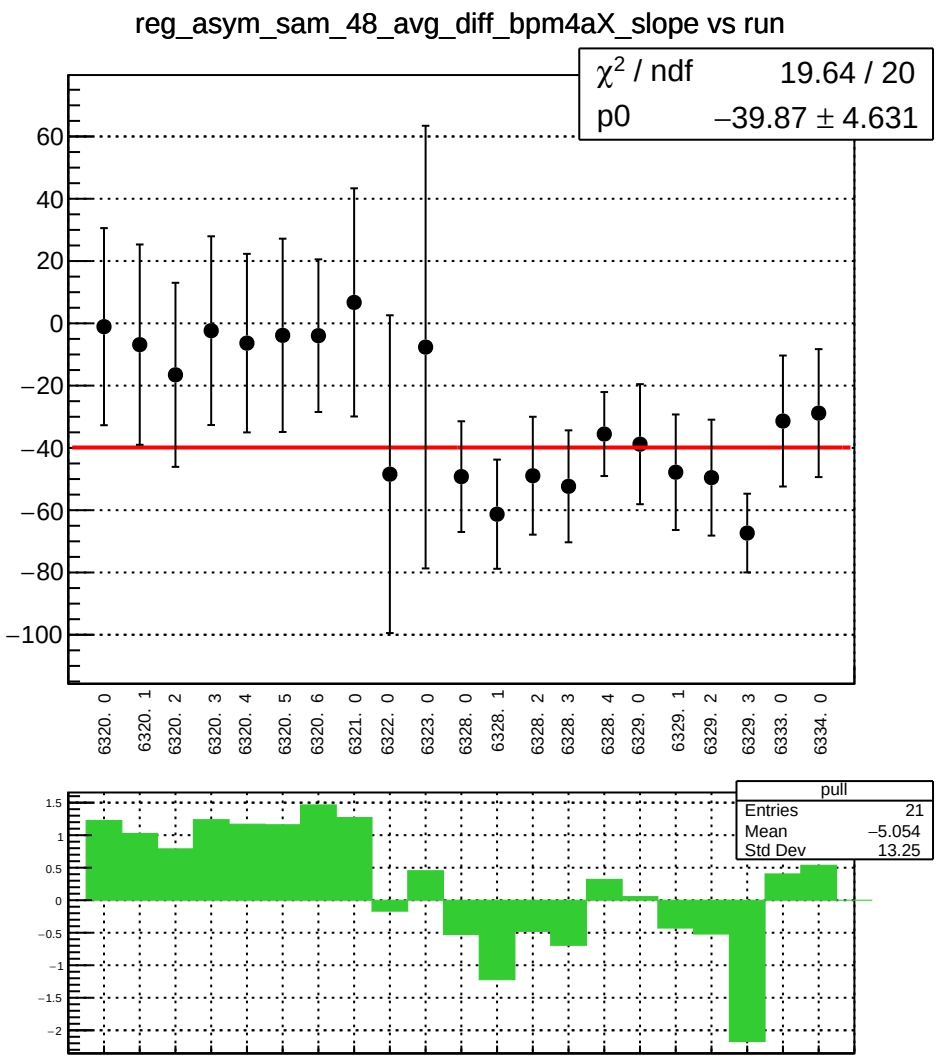

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7646 / 20
p0 −29.21± 2.952
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5417
Std Dev 5406
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

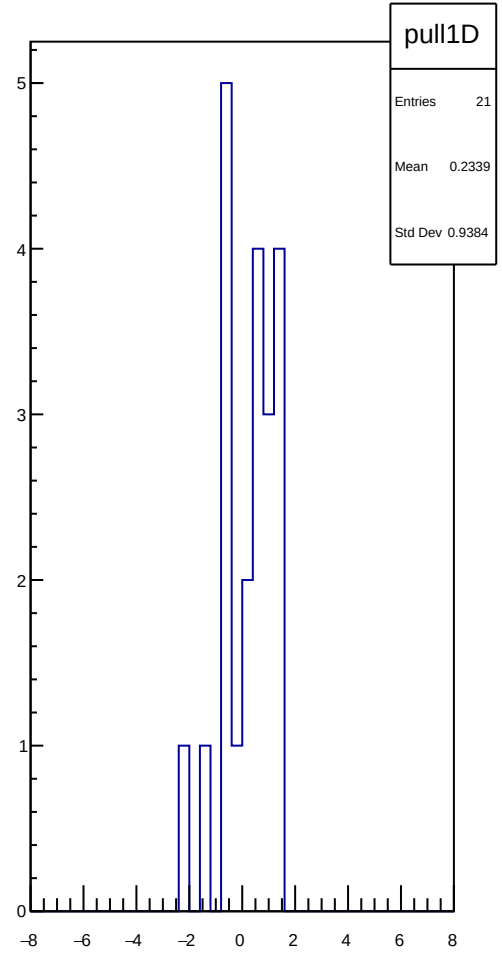

pull1D
Entries 21
Mean 0.0001393
Std Dev 0.1908
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

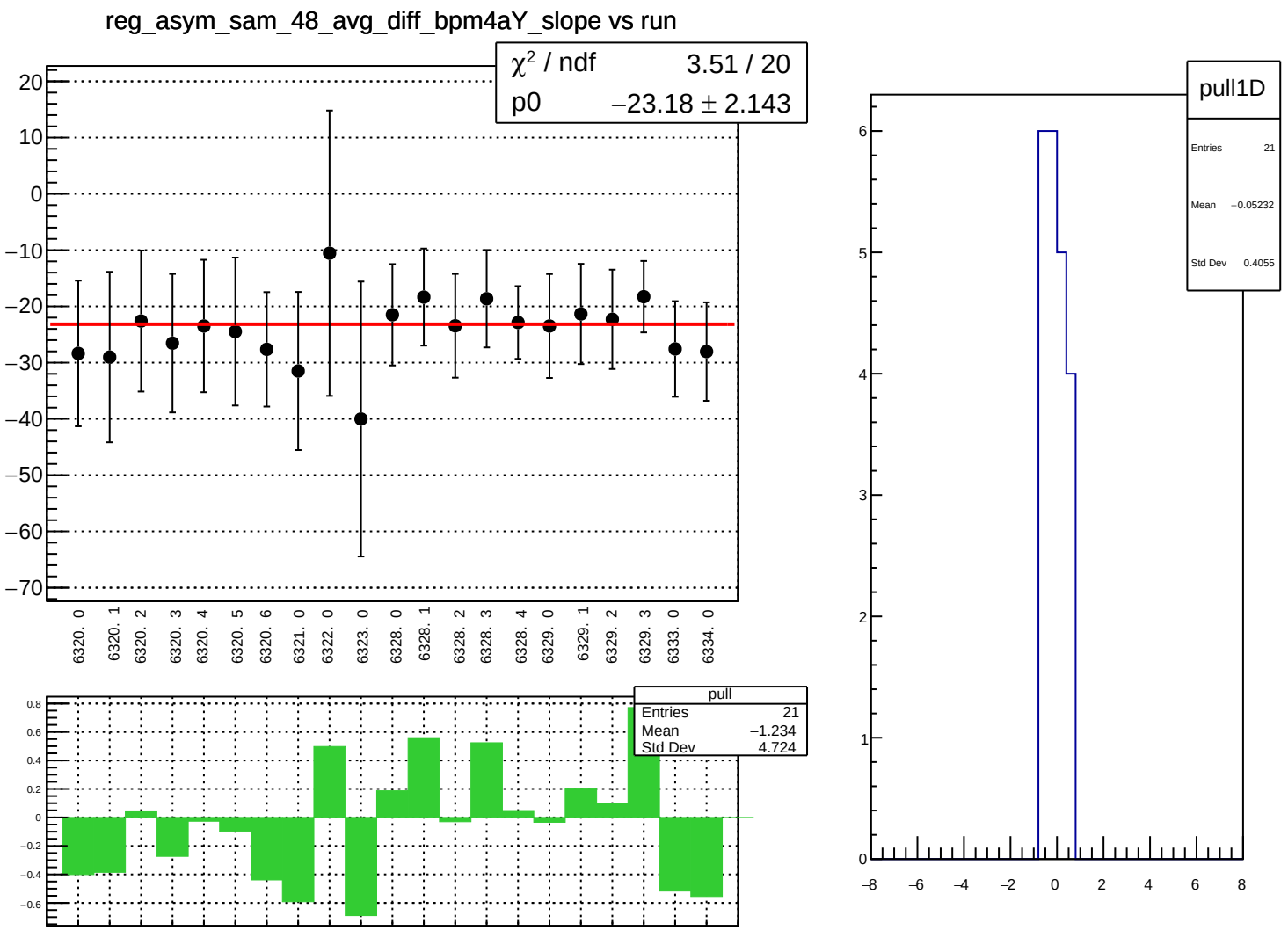

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.273 / 20
p0 −35.08 ± 7.007
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 62.28
Std Dev 51.98
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean −0.005231
Std Dev 0.2462
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

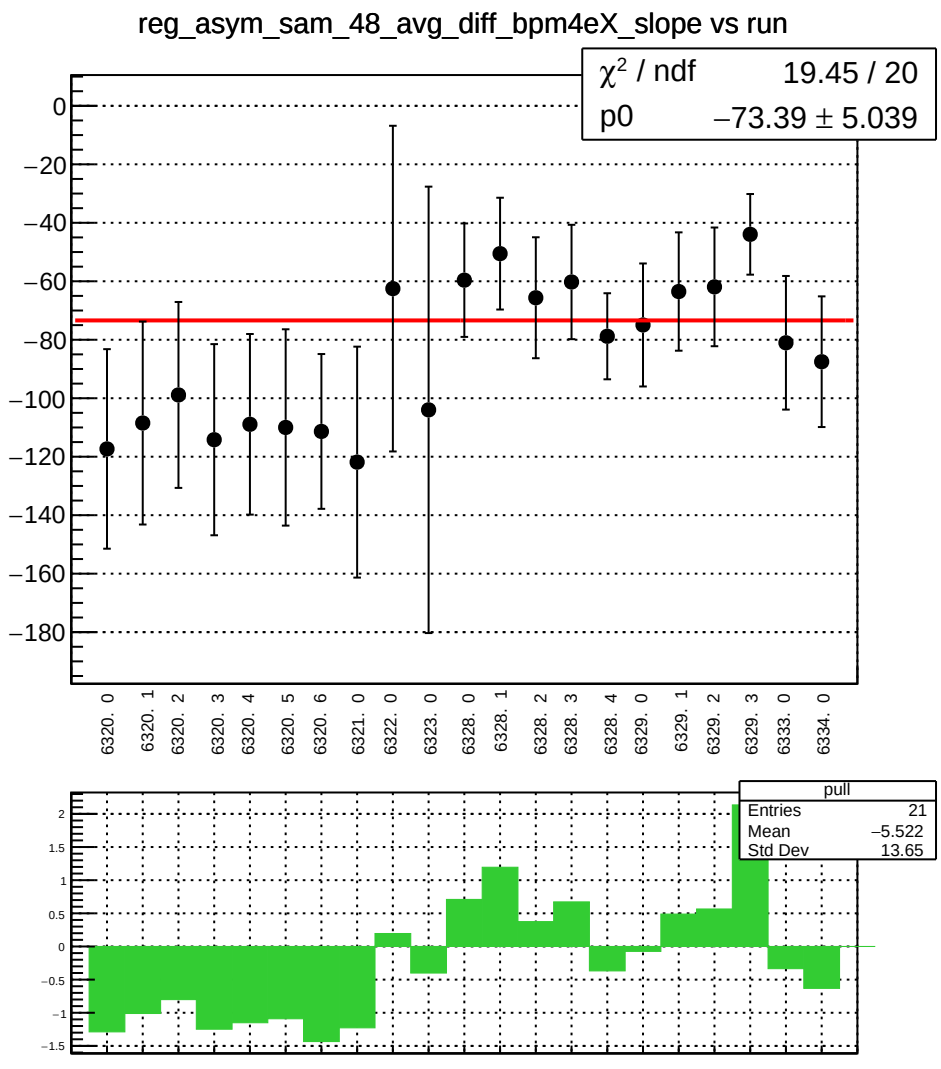

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.454 / 20
p0 −118.7 ± 3.311
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.29
Std Dev 35.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.06183
Std Dev 0.4008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

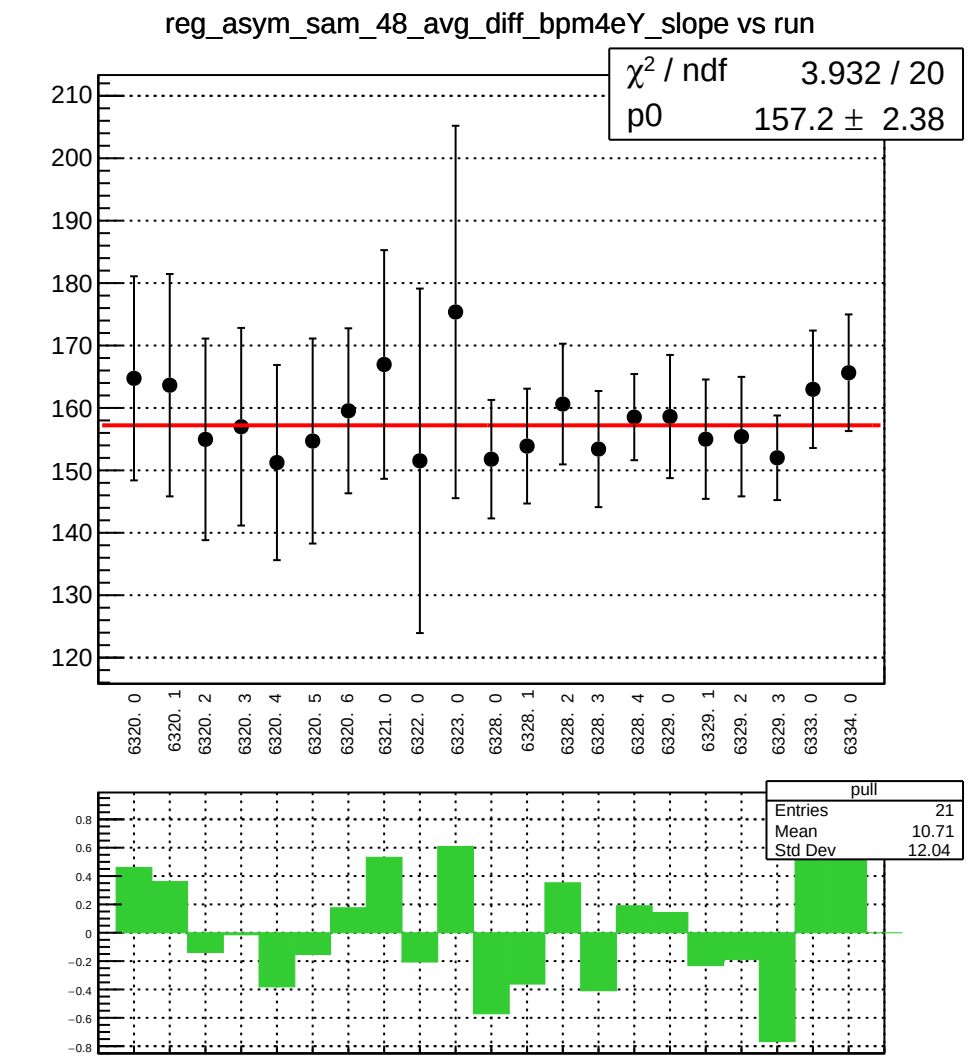

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.06 / 20
p0 0.5248 ± 0.1713
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.101
Std Dev 9.863
pull1D
Entries 21
Mean −0.3065
Std Dev 0.7895

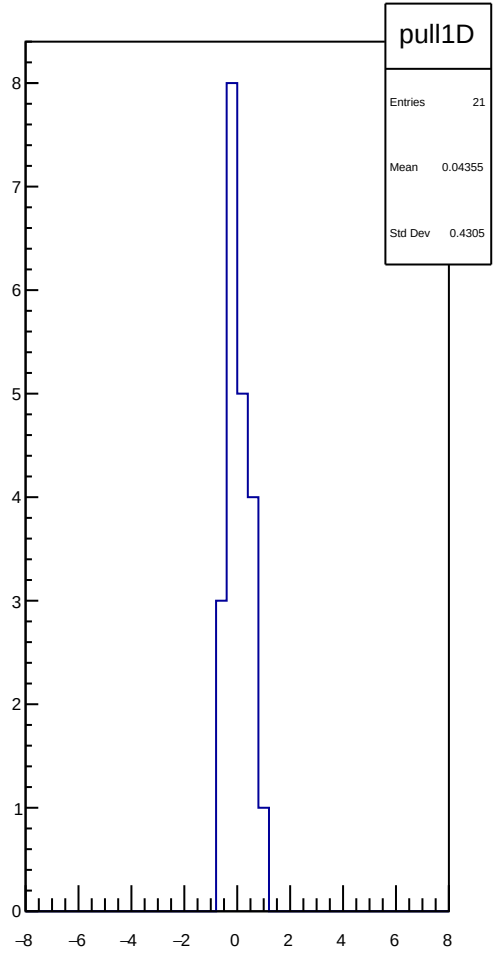

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.64 / 20
p0 −39.87 ± 4.631
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.054
Std Dev 13.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2

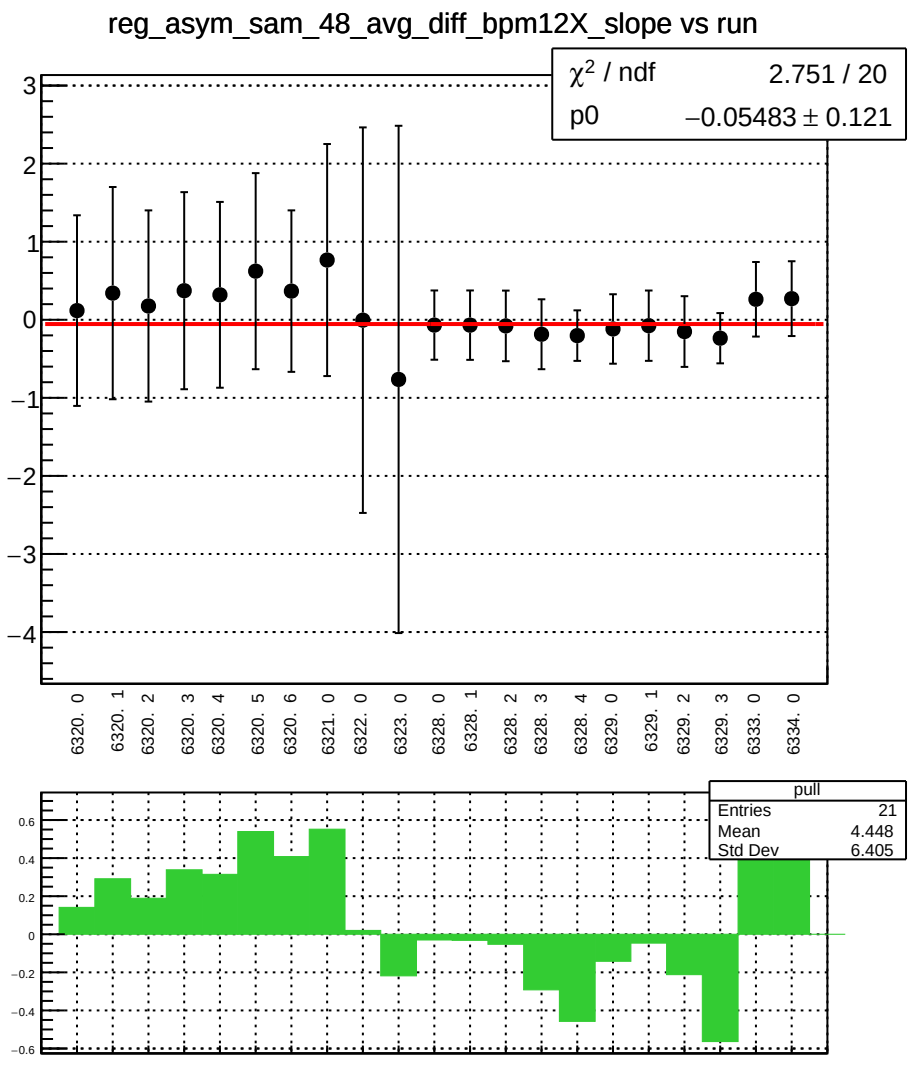

pull1D
Entries 21
Mean 0.2339
Std Dev 0.9384
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

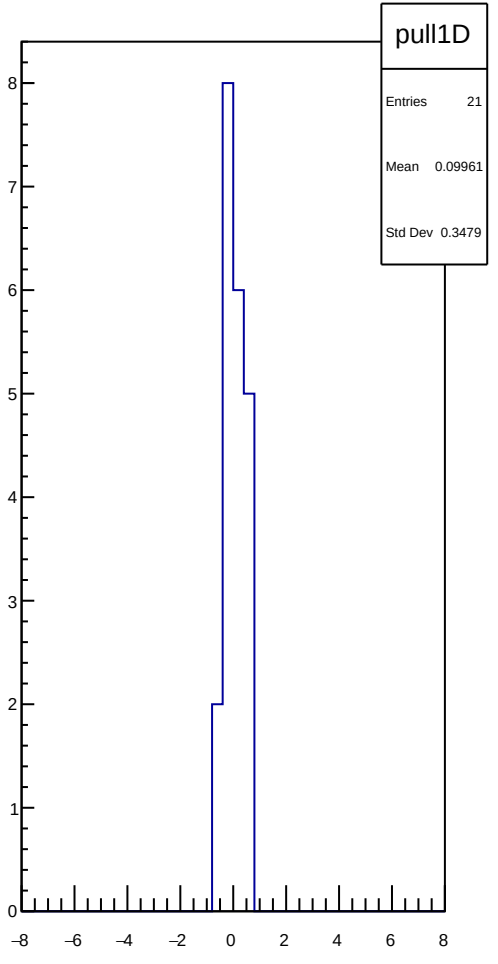

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.51 / 20
p0 −23.18 ± 2.143
20
10
0
−10
−20
−30
−40
−50
−60
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.234
Std Dev 4.724
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.05232
Std Dev 0.4055
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

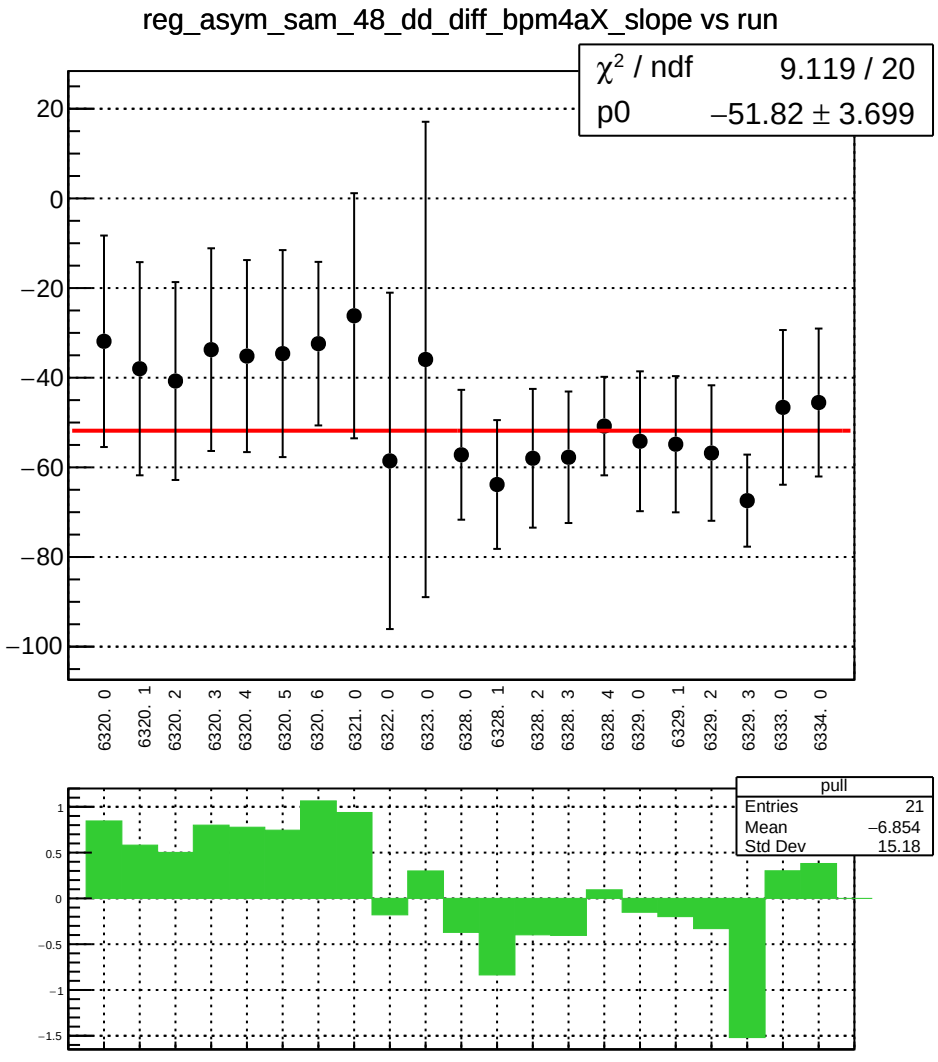

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.45 / 20
p0 −73.39 ± 5.039
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.522
Std Dev 13.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.2249
Std Dev 0.9357
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

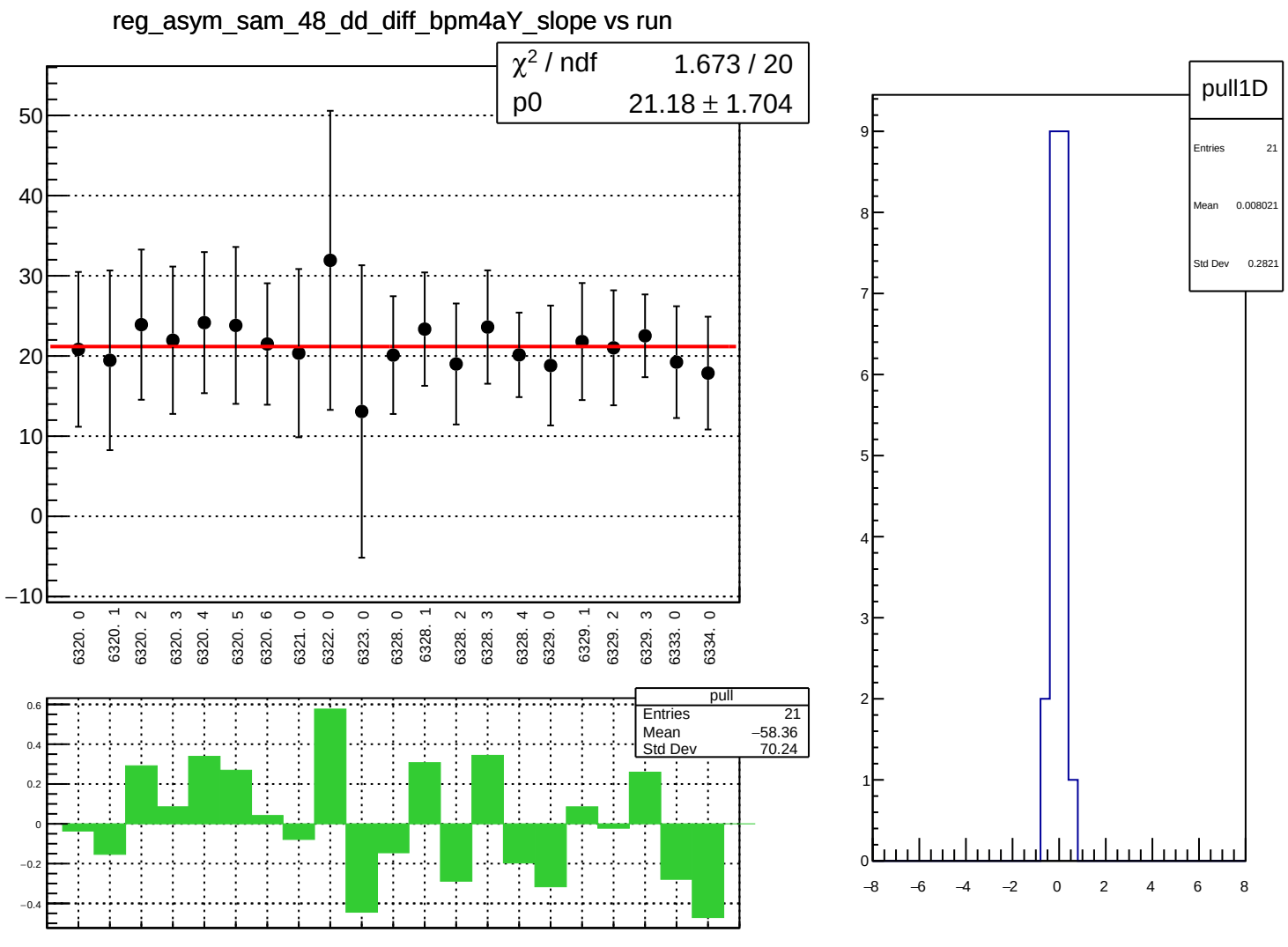

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.932 / 20
p0 157.2 ± 2.38
210
200
190
180
170
160
150
140
130
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.71
Std Dev 12.04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

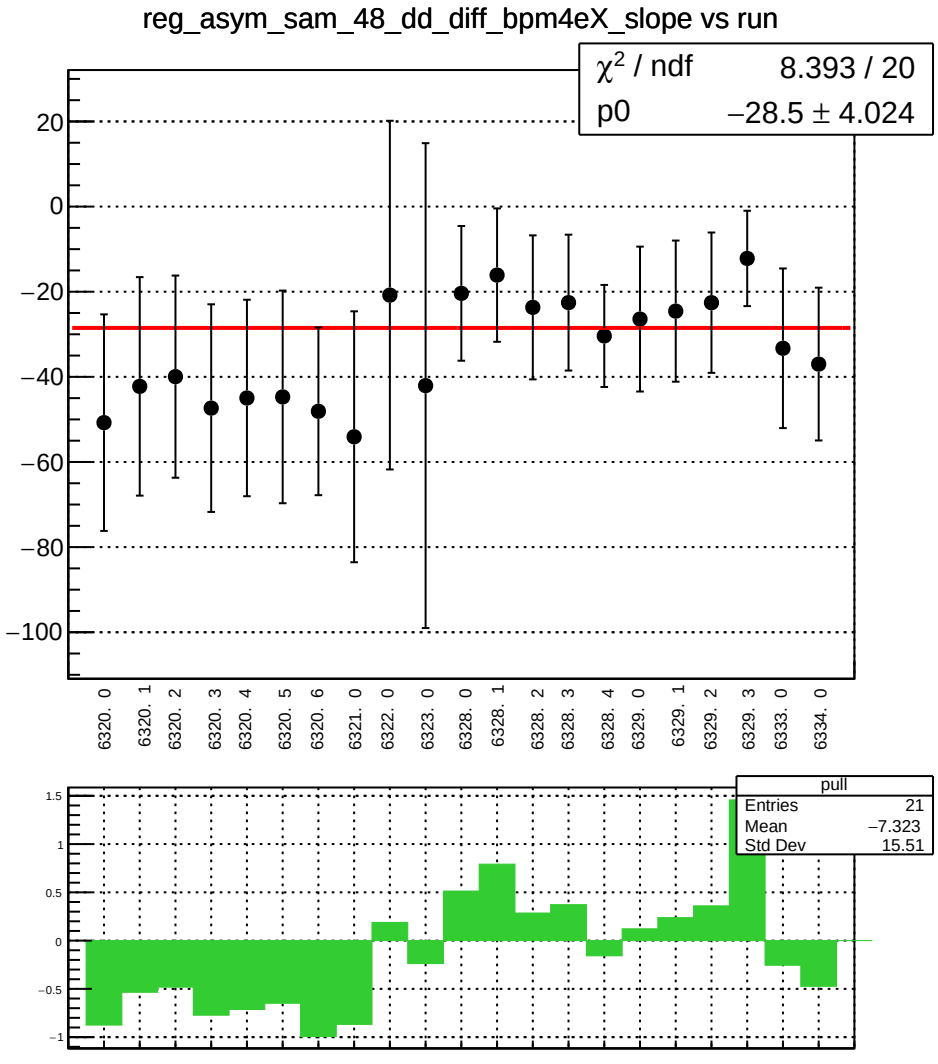

pull1D
Entries 21
Mean 0.04355
Std Dev 0.4305
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

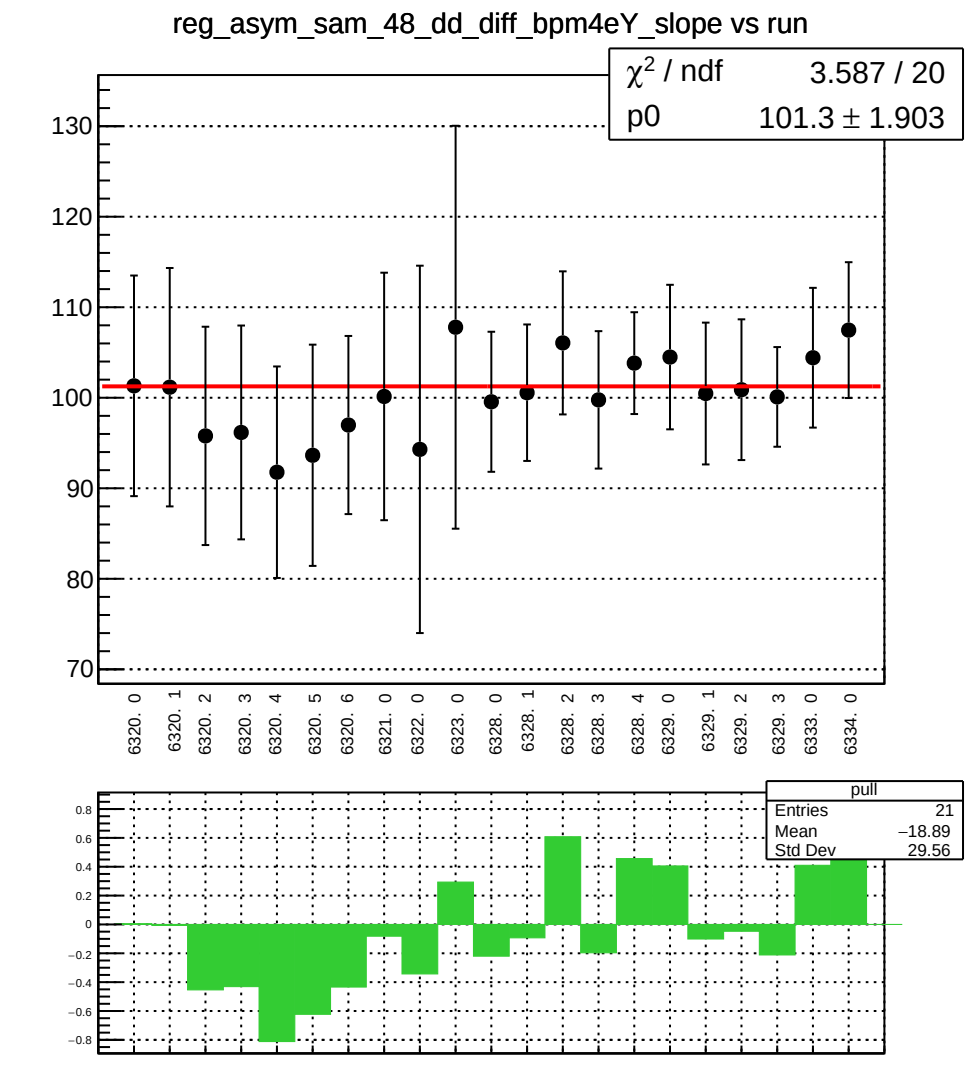

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.751 / 20
p0 −0.05483 ± 0.121
3
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 4.448
Std Dev 6.405
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

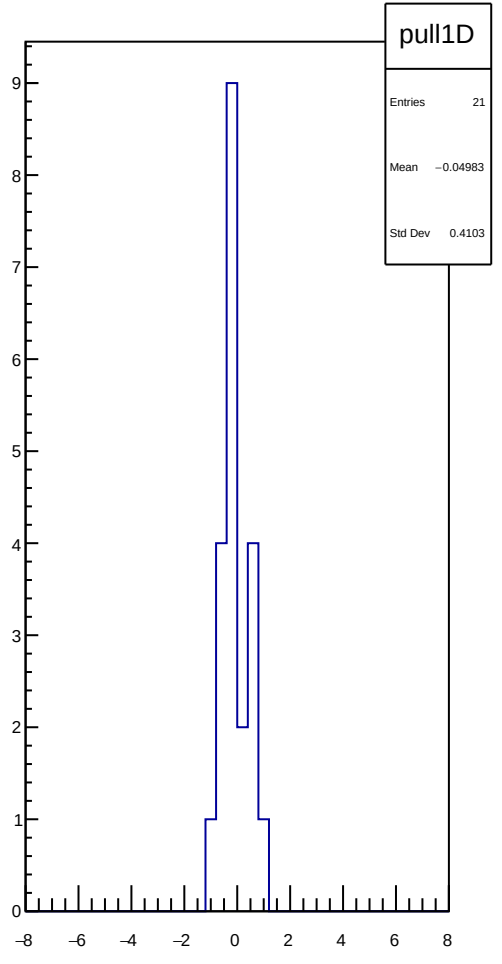

pull1D
Entries 21
Mean 0.09961
Std Dev 0.3479
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

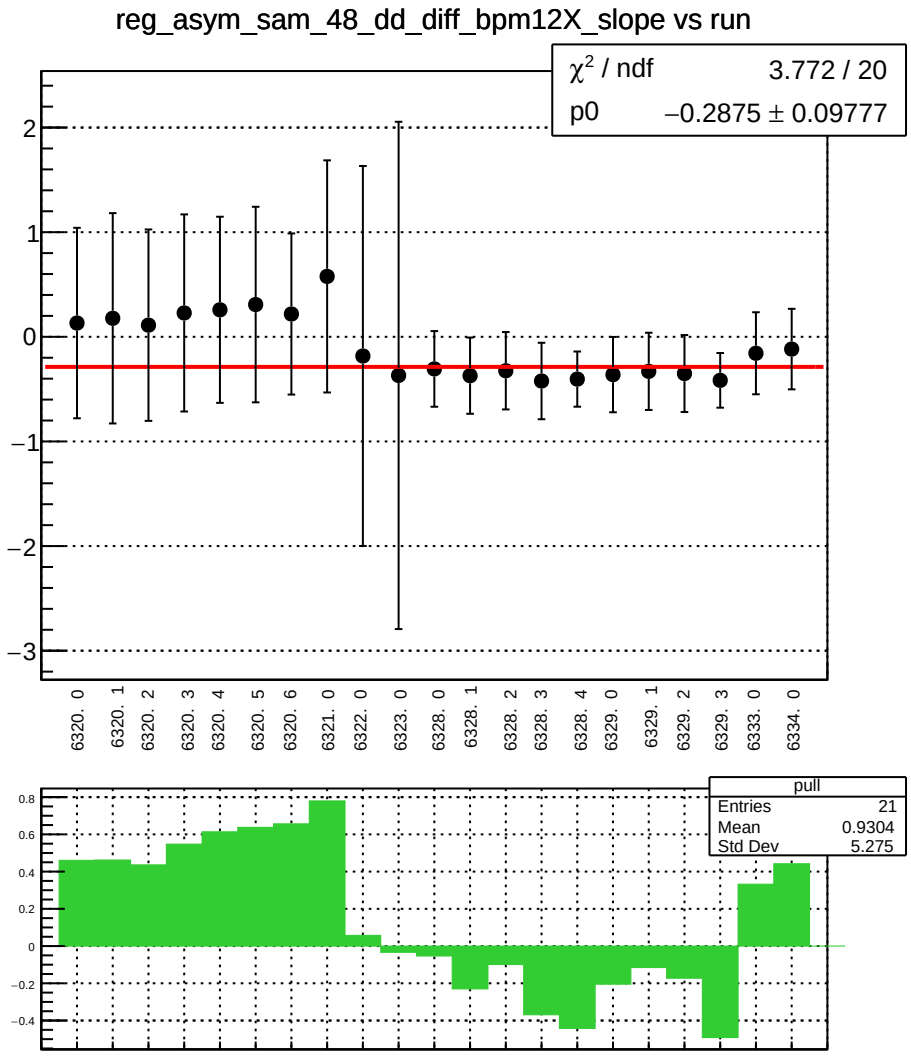

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.119 / 20
p0 −51.82 ± 3.699
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.854
Std Dev 15.18
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.1401
Std Dev 0.6439
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

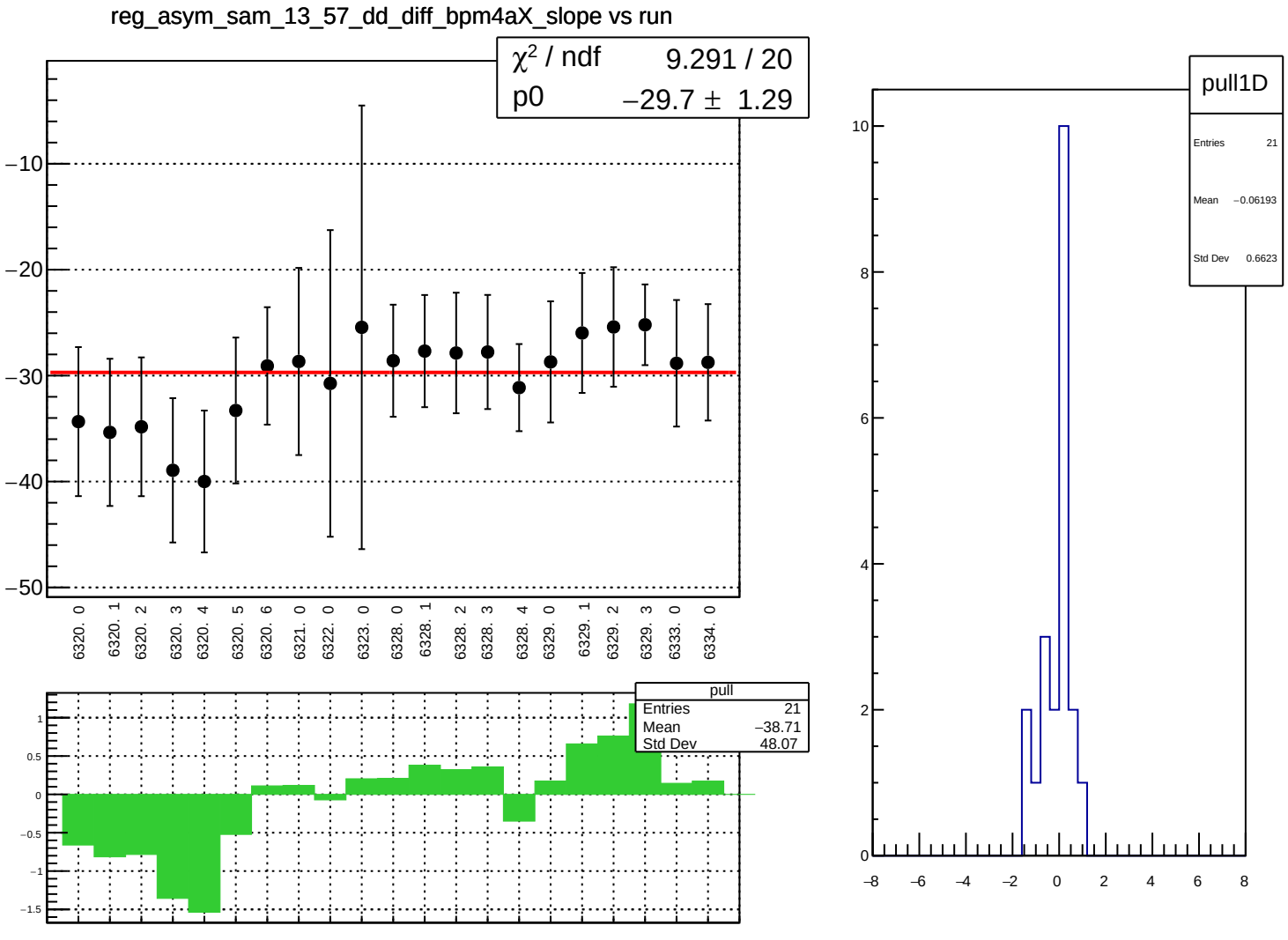

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.673 / 20
p0 21.18 ± 1.704
50
40
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −58.36
Std Dev 70.24
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.008021
Std Dev 0.2821
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

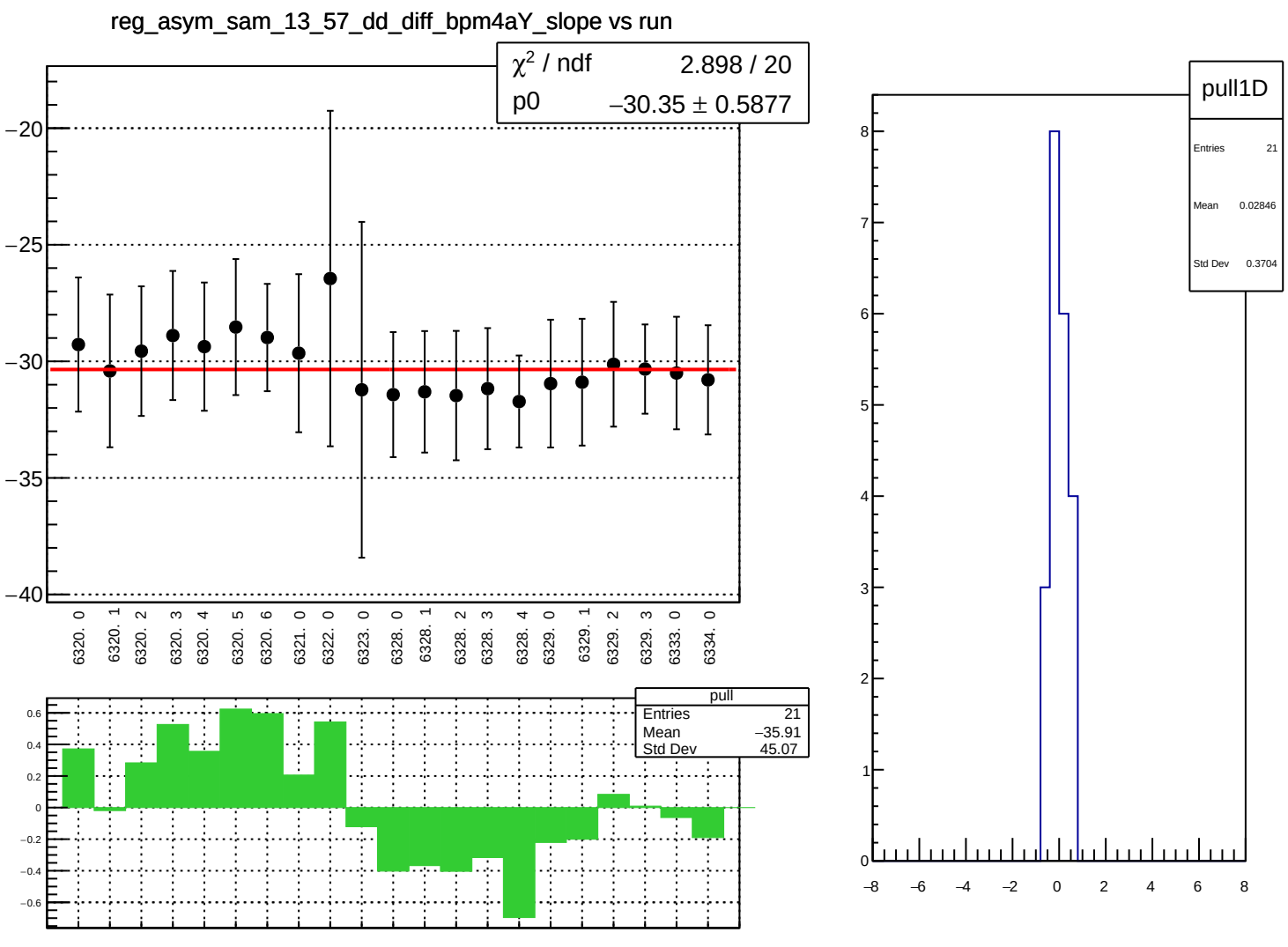

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.393 / 20
p0 −28.5 ± 4.024
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.323
Std Dev 15.51
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1278
Std Dev 0.6191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

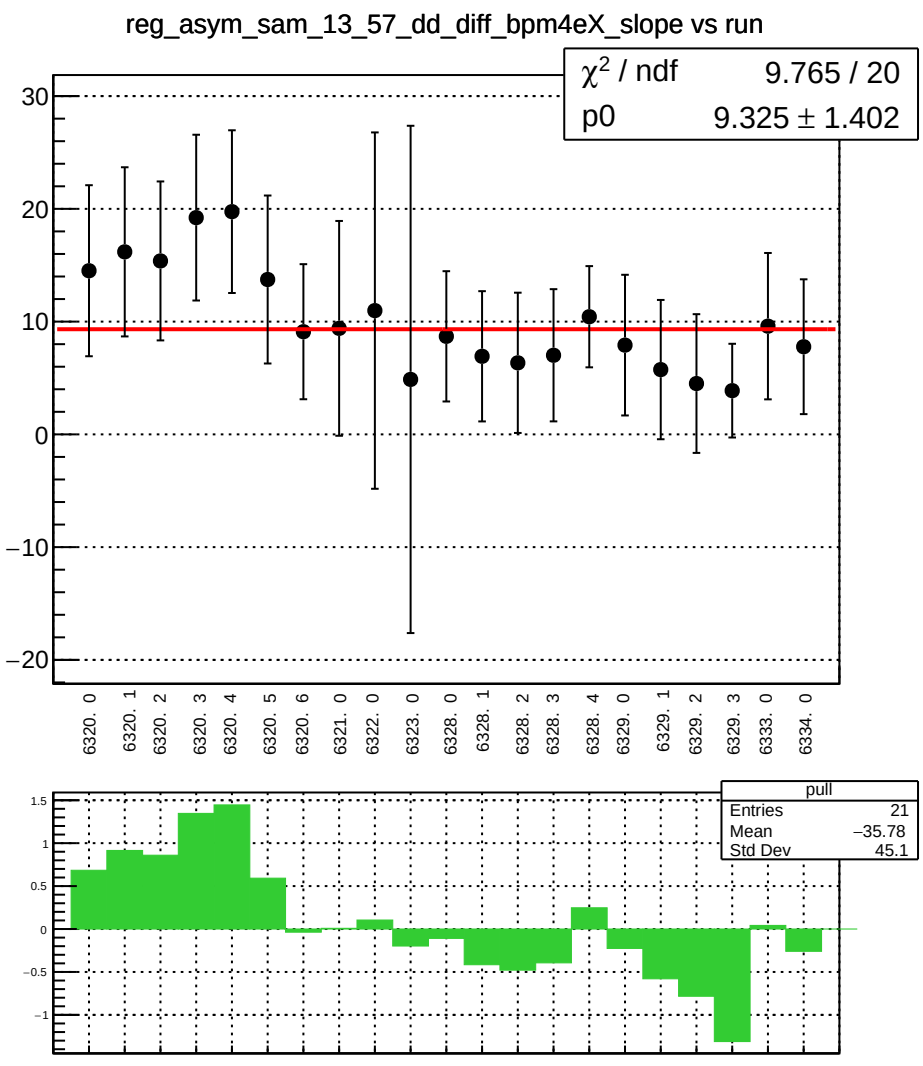

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.587 / 20
p0 101.3 ± 1.903
130
120
110
100
90
80
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.89
Std Dev 29.56
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

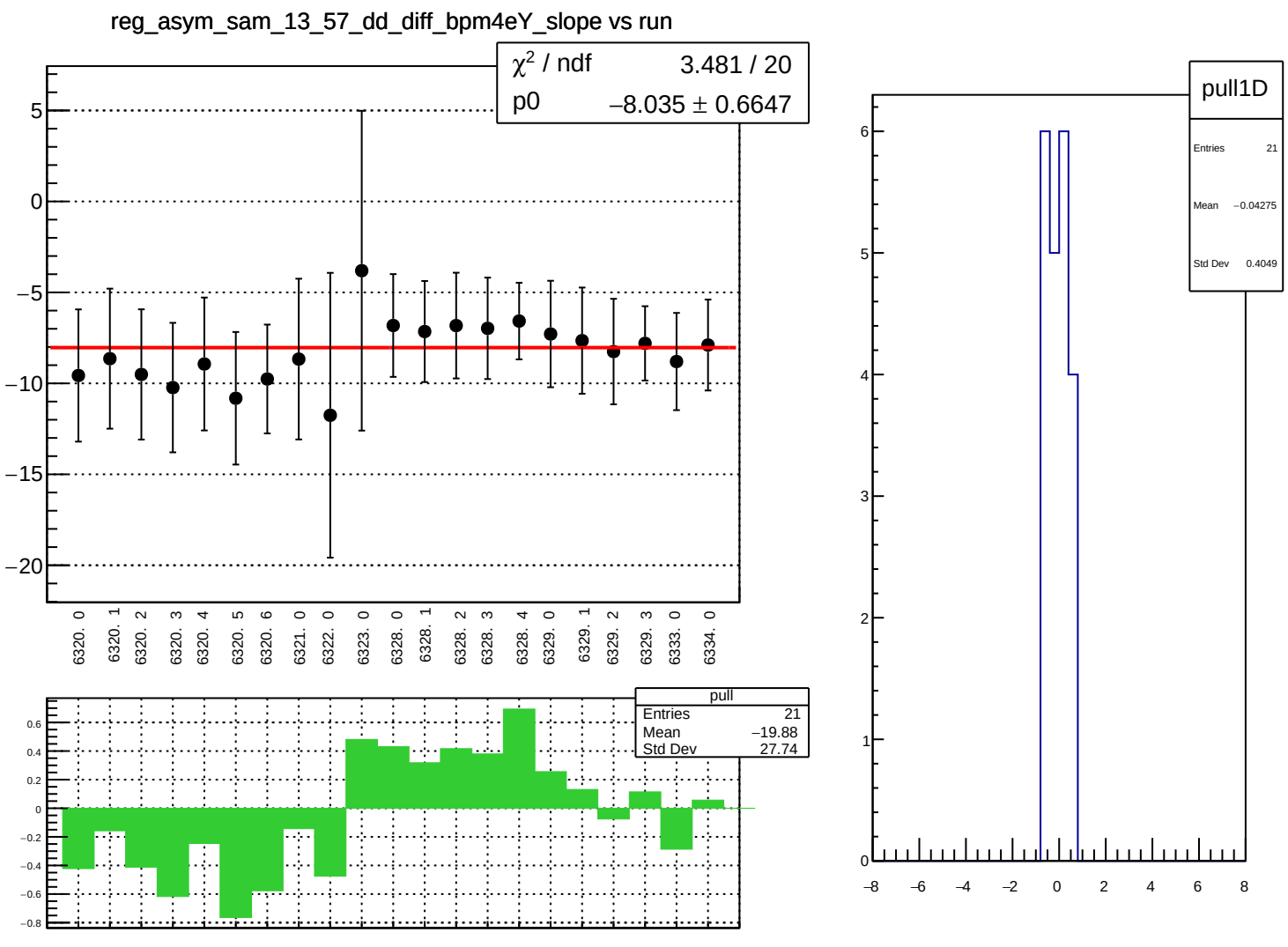

pull1D
Entries 21
Mean −0.04983
Std Dev 0.4103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

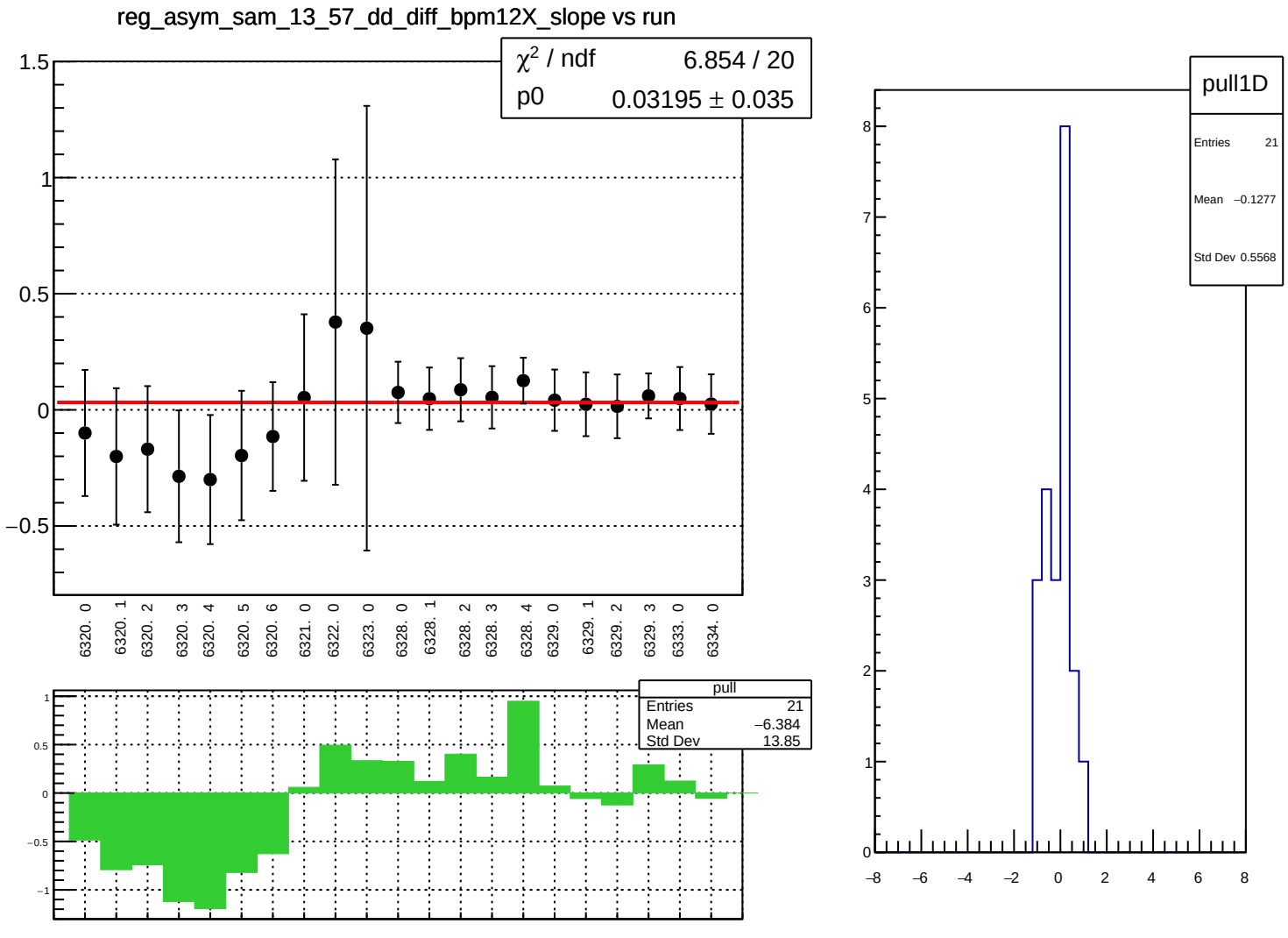

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.772 / 20
p0 −0.2875 ± 0.09777
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.9304
Std Dev 5.275
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.153
Std Dev 0.3952
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

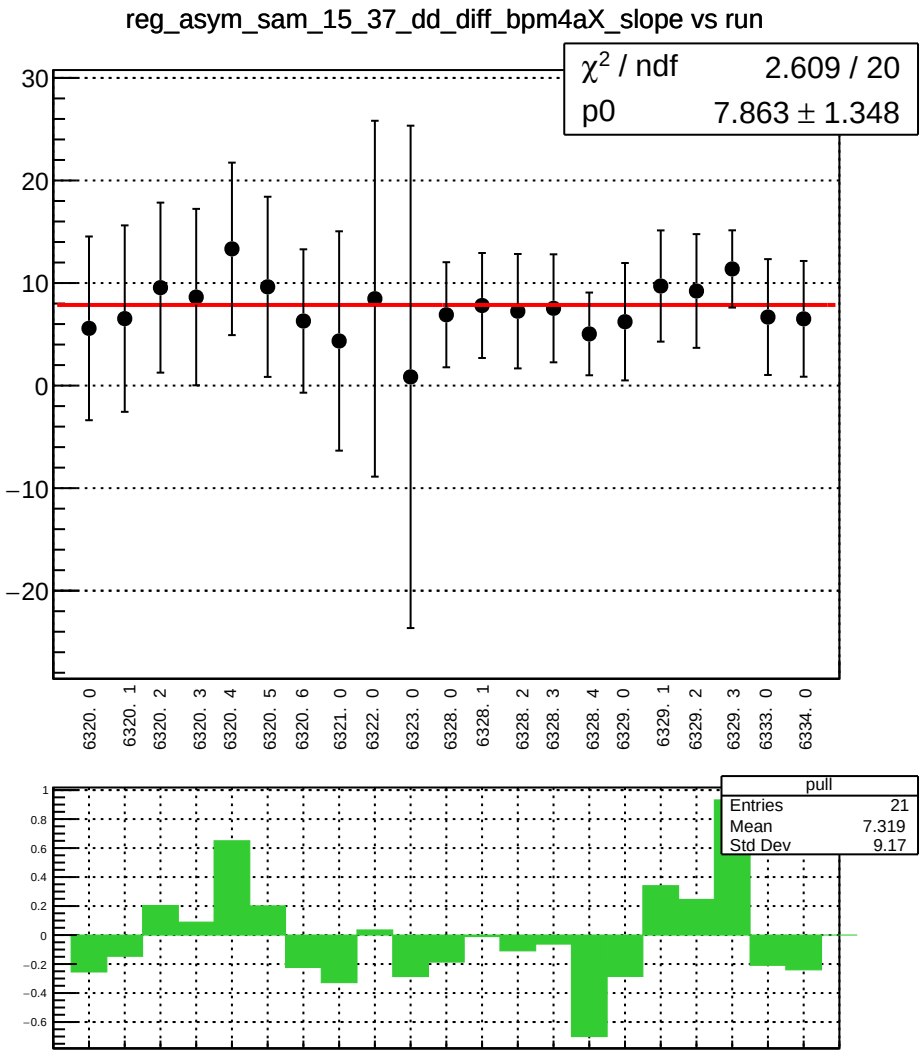

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.291 / 20
p0 −29.7 ± 1.29
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −38.71
Std Dev 48.07
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.06193
Std Dev 0.6623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

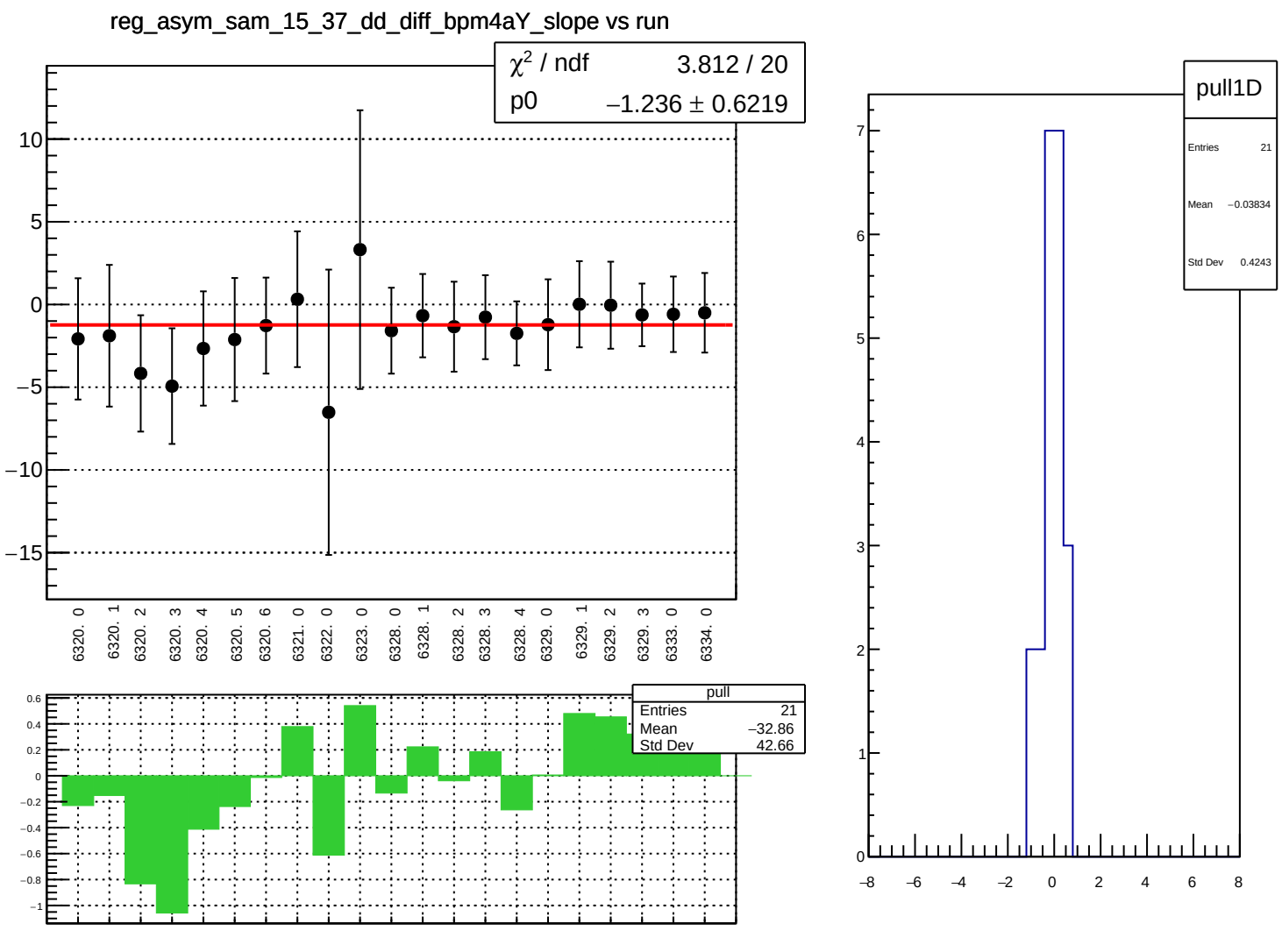

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.898 / 20
p0 −30.35 ± 0.5877
−20
−25
−30
−35
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −35.91
Std Dev 45.07
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.02846
Std Dev 0.3704
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

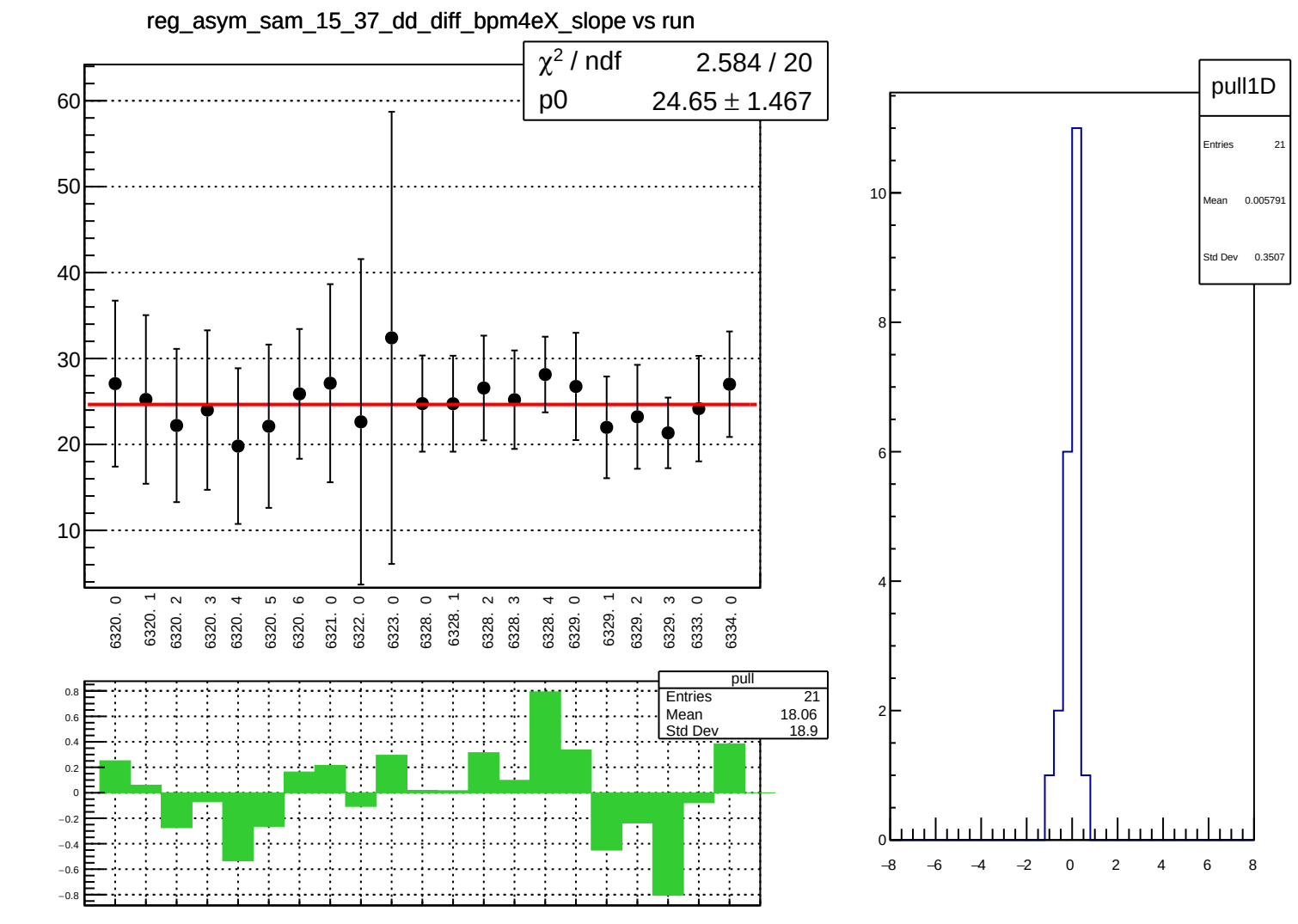

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.765 / 20
p0 9.325 ± 1.402
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −35.78
Std Dev 45.1
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.06921
Std Dev 0.6784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

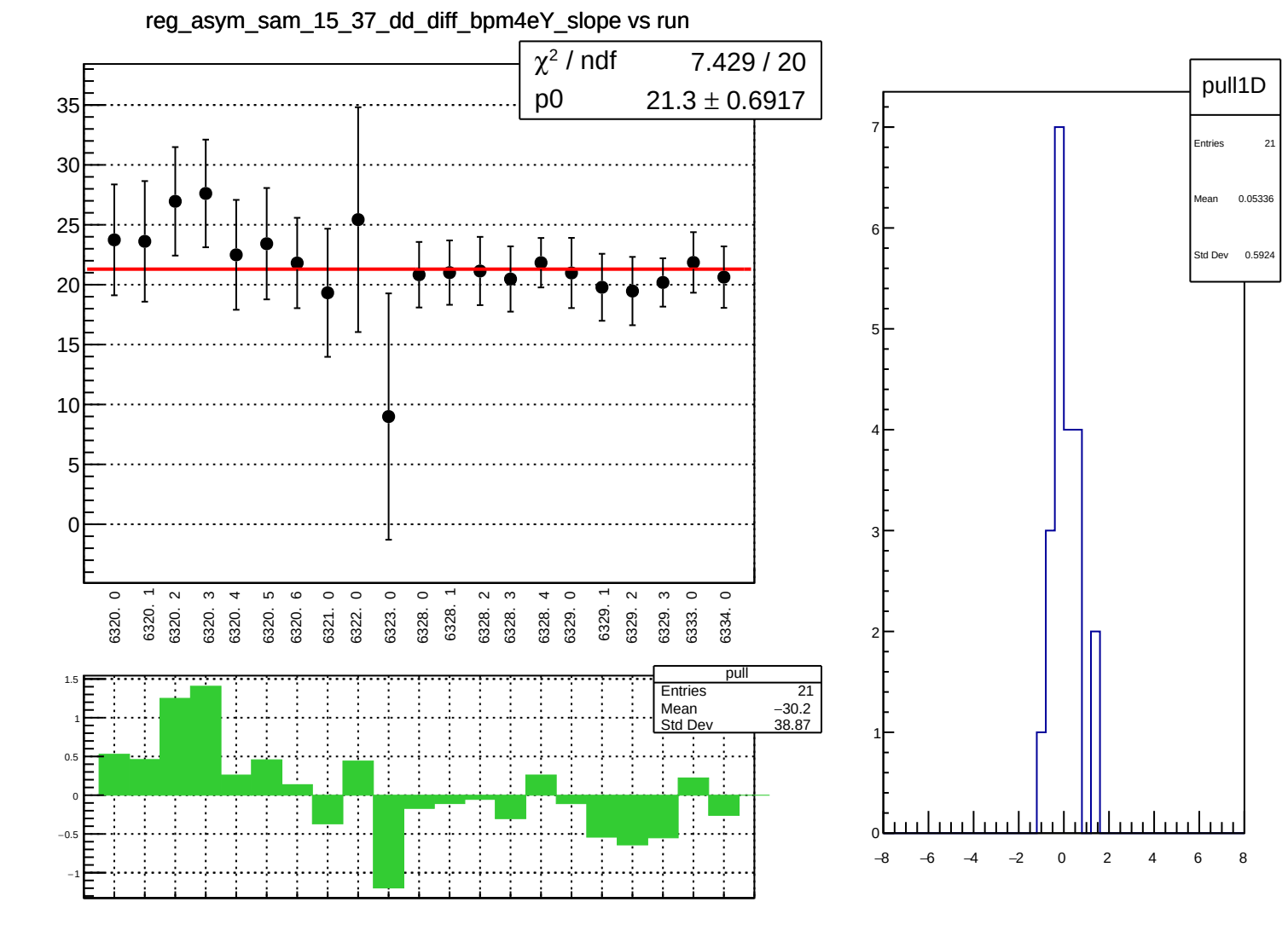

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.481 / 20
p0 −8.035 ± 0.6647
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −19.88
Std Dev 27.74
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.04275
Std Dev 0.4049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

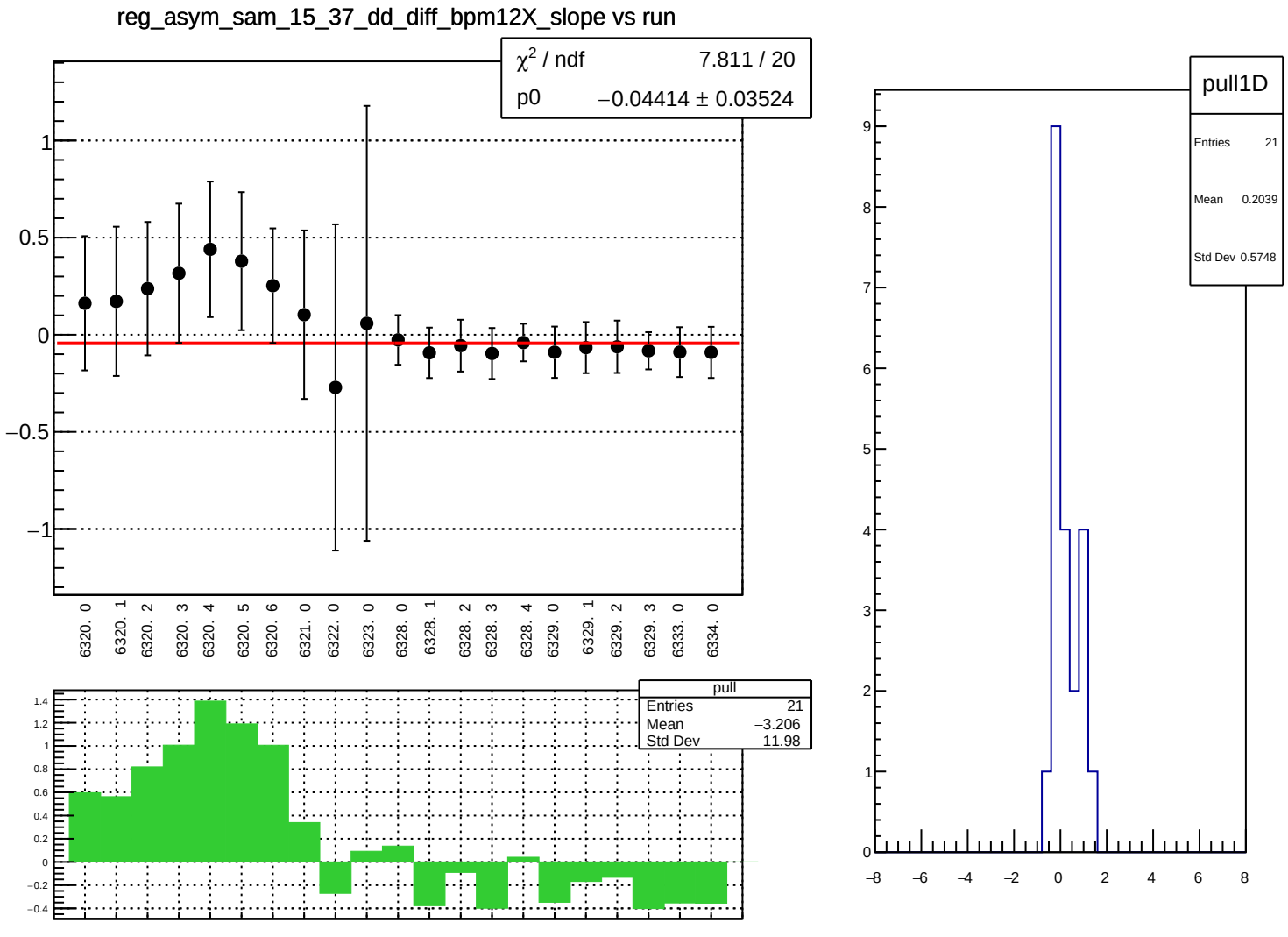

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 6.854 / 20
p0 0.03195 ± 0.035
1.5
1
0.5
0
−0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.384
Std Dev 13.85
pull1D
Entries 21
Mean −0.1277
Std Dev 0.5568

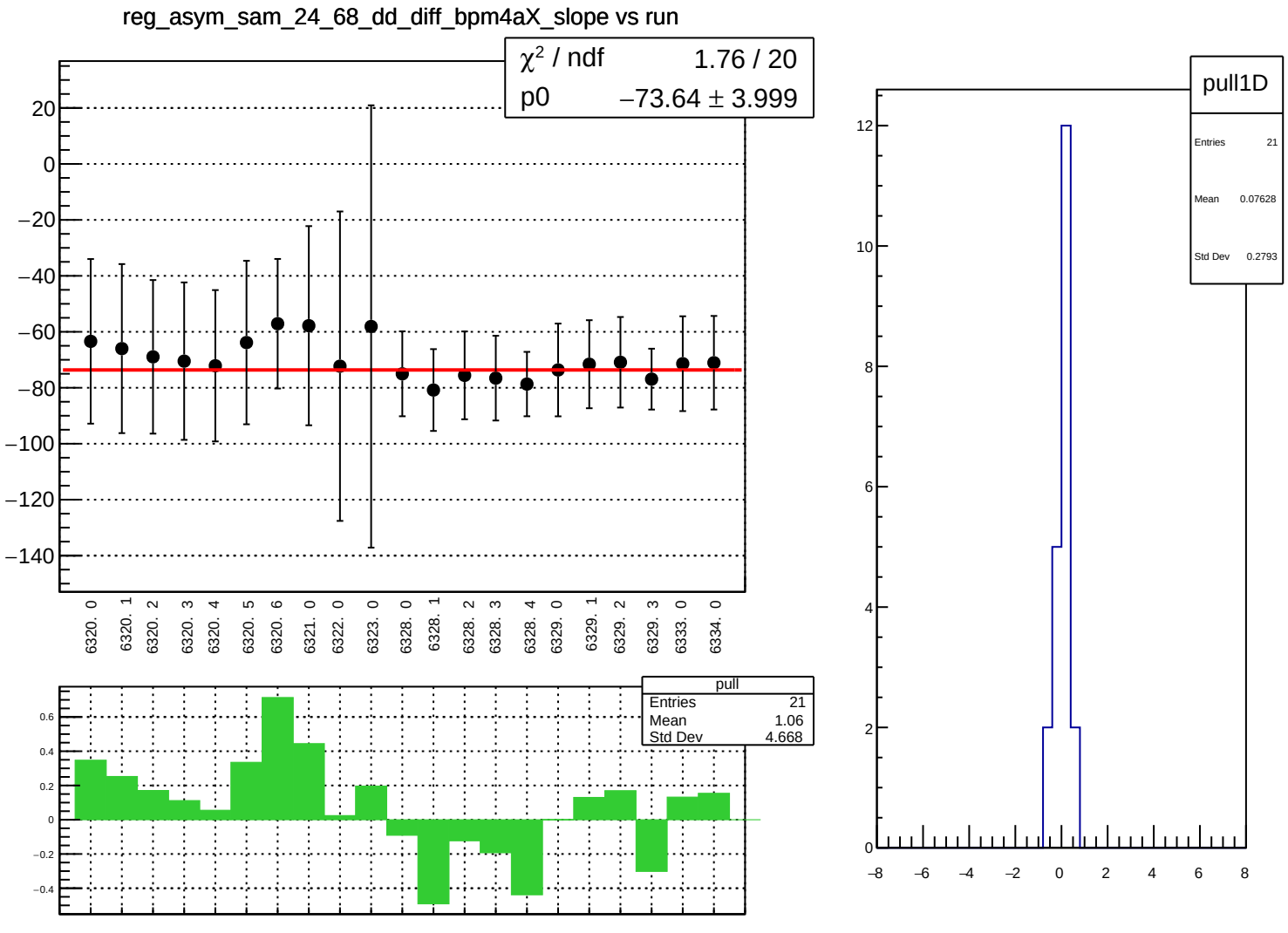

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.609 / 20
p0 7.863 ± 1.348
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 7.319
Std Dev 9.17
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.01642
Std Dev 0.3521
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

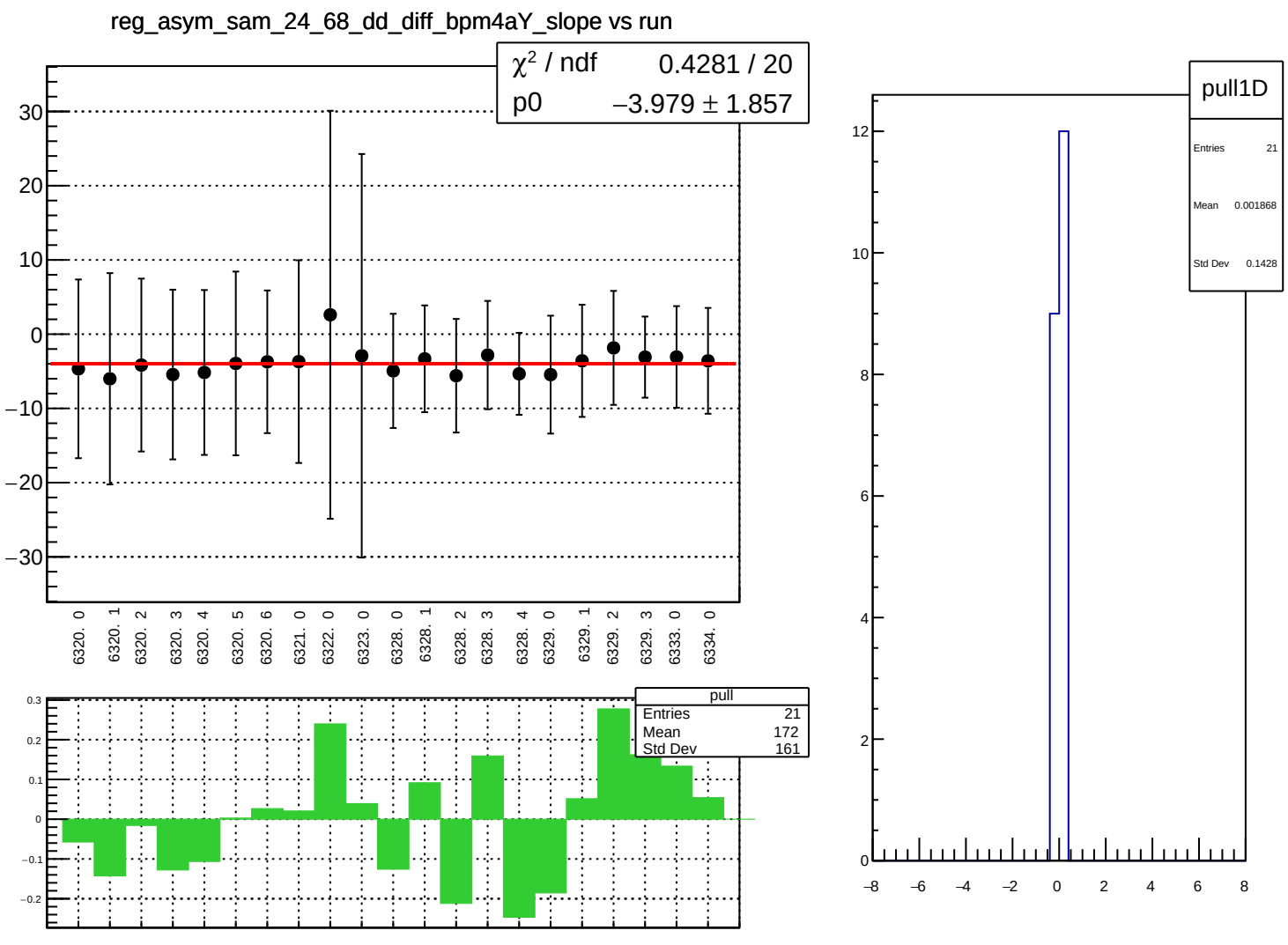

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.812 / 20
p0 −1.236 ± 0.6219
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −32.86
Std Dev 42.66
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 21
Mean −0.03834
Std Dev 0.4243
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

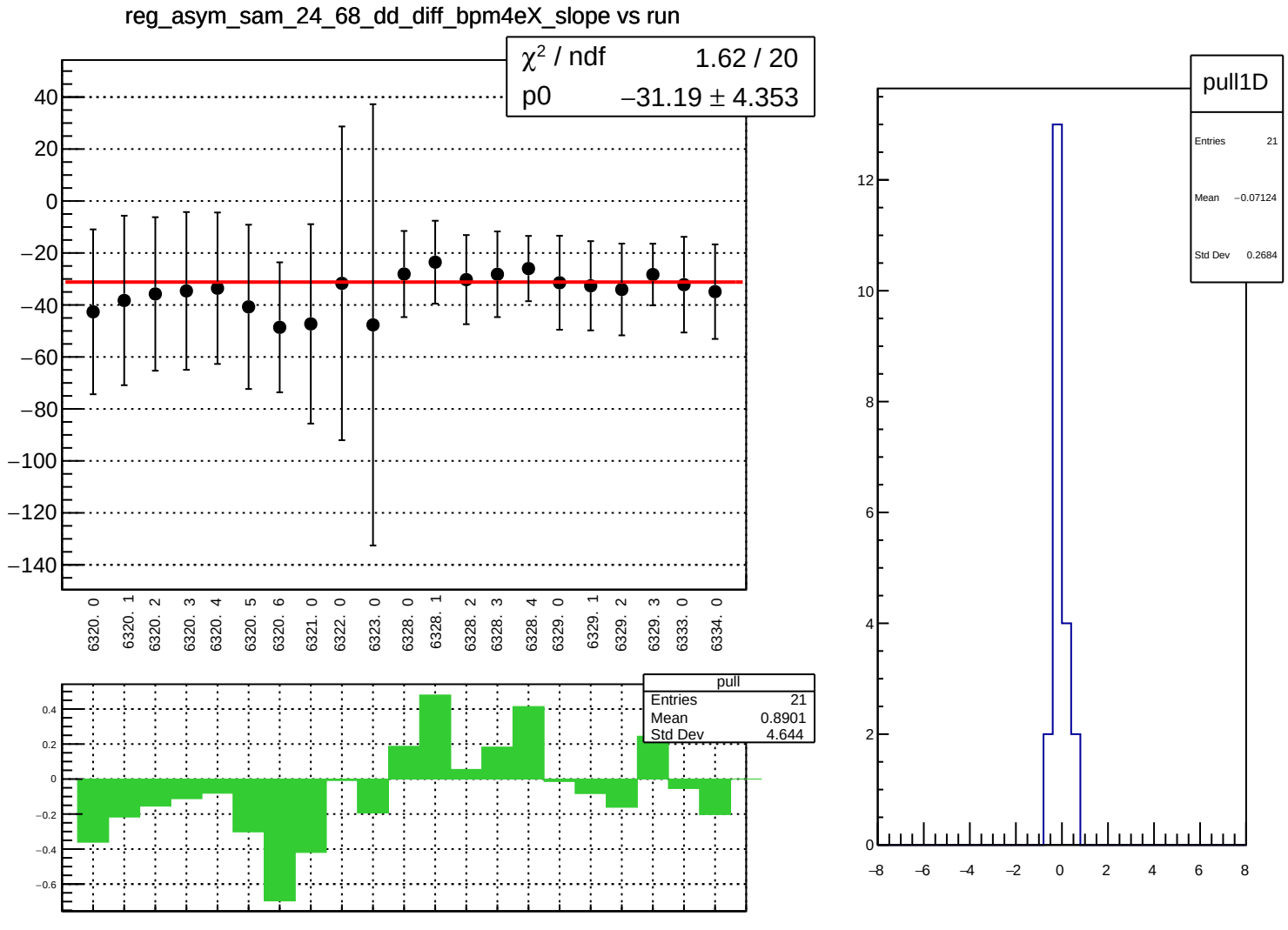

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.584 / 20
p0 24.65 ± 1.467
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 18.06
Std Dev 18.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.005791
Std Dev 0.3507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

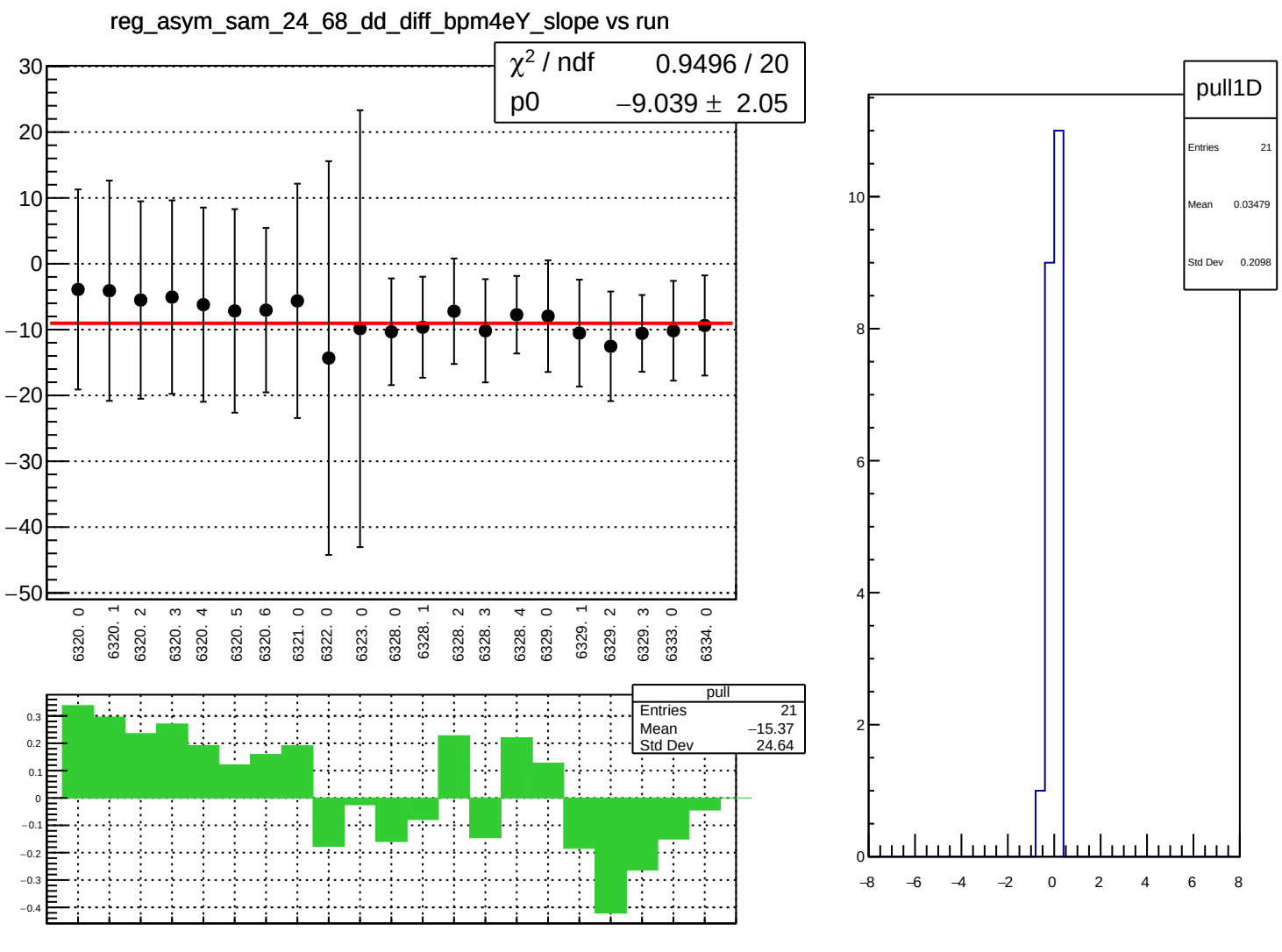

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.429 / 20
p0 21.3 ± 0.6917
35
30
25
20
15
10
5
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −30.2
Std Dev 38.87
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.05336
Std Dev 0.5924
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

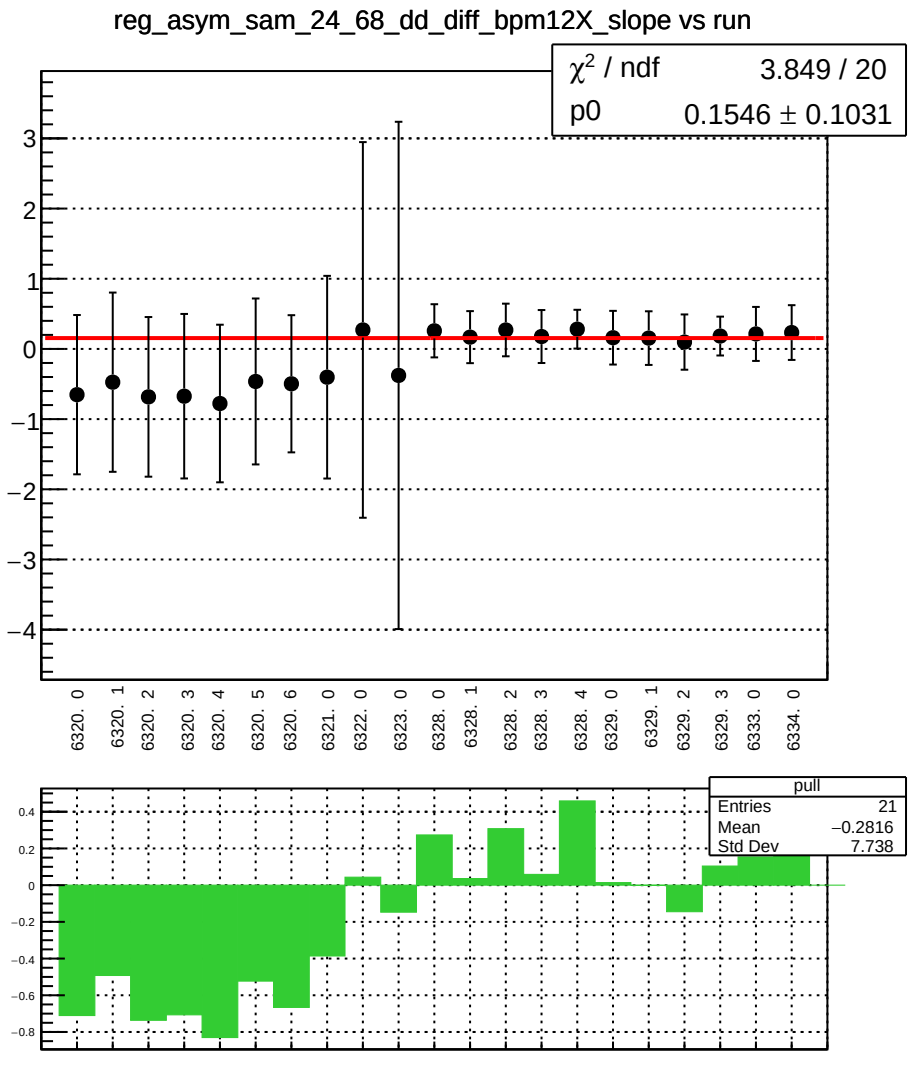

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.811 / 20
p0 −0.04414 ± 0.03524
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.206
Std Dev 11.98
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.2039
Std Dev 0.5748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

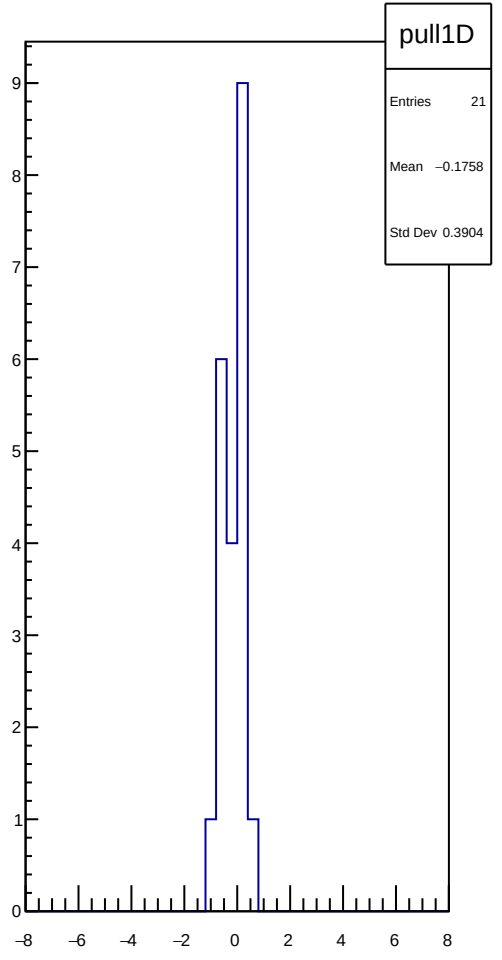

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.76 / 20
p0 −73.64 ± 3.999
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.06
Std Dev 4.668
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.07628
Std Dev 0.2793
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

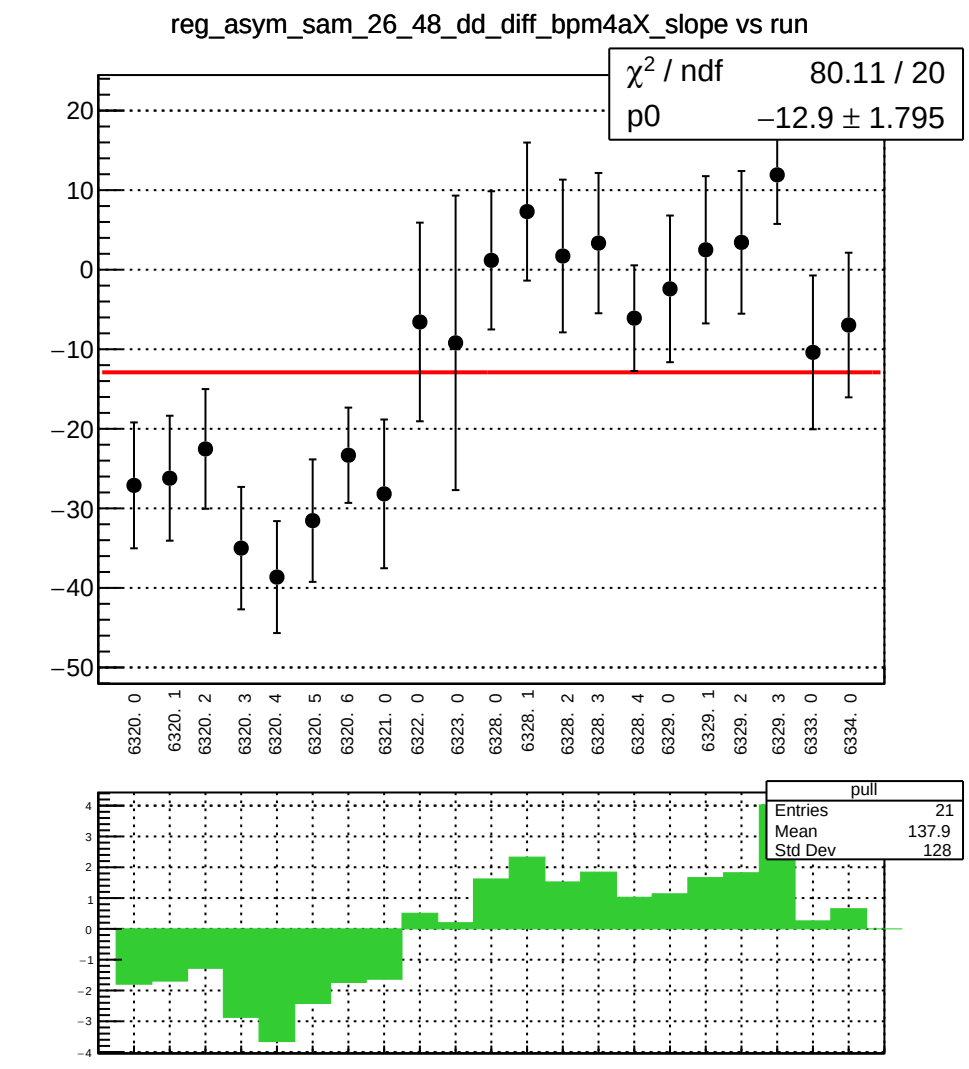

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4281 / 20
p0 −3.979 ± 1.857
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 172
Std Dev 161
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 21
Mean 0.001868
Std Dev 0.1428
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

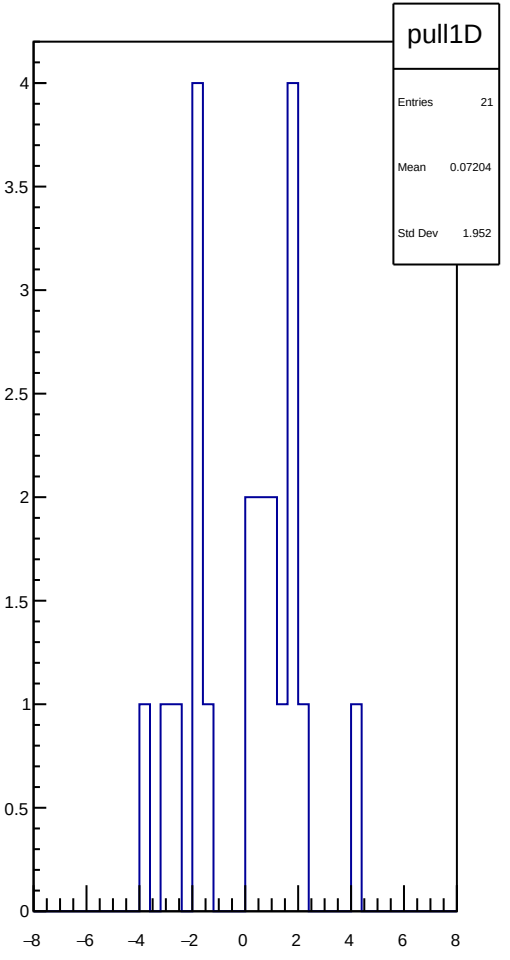

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.62 / 20
p0 −31.19 ± 4.353
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.8901
Std Dev 4.644
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.07124
Std Dev 0.2684
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

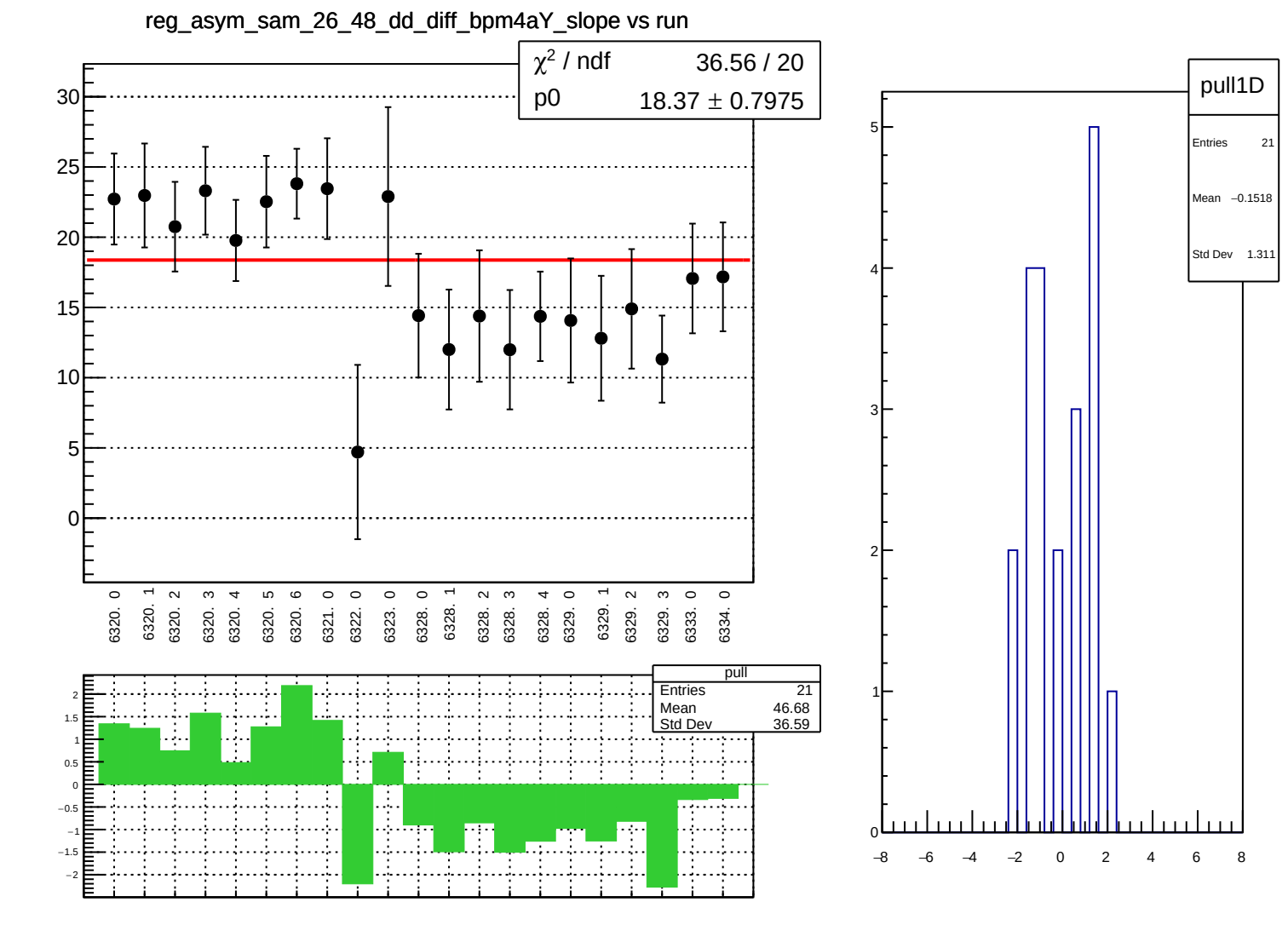

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9496 / 20
p0 −9.039 ± 2.05
30
20
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.37
Std Dev 24.64
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 21
Mean 0.03479
Std Dev 0.2098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

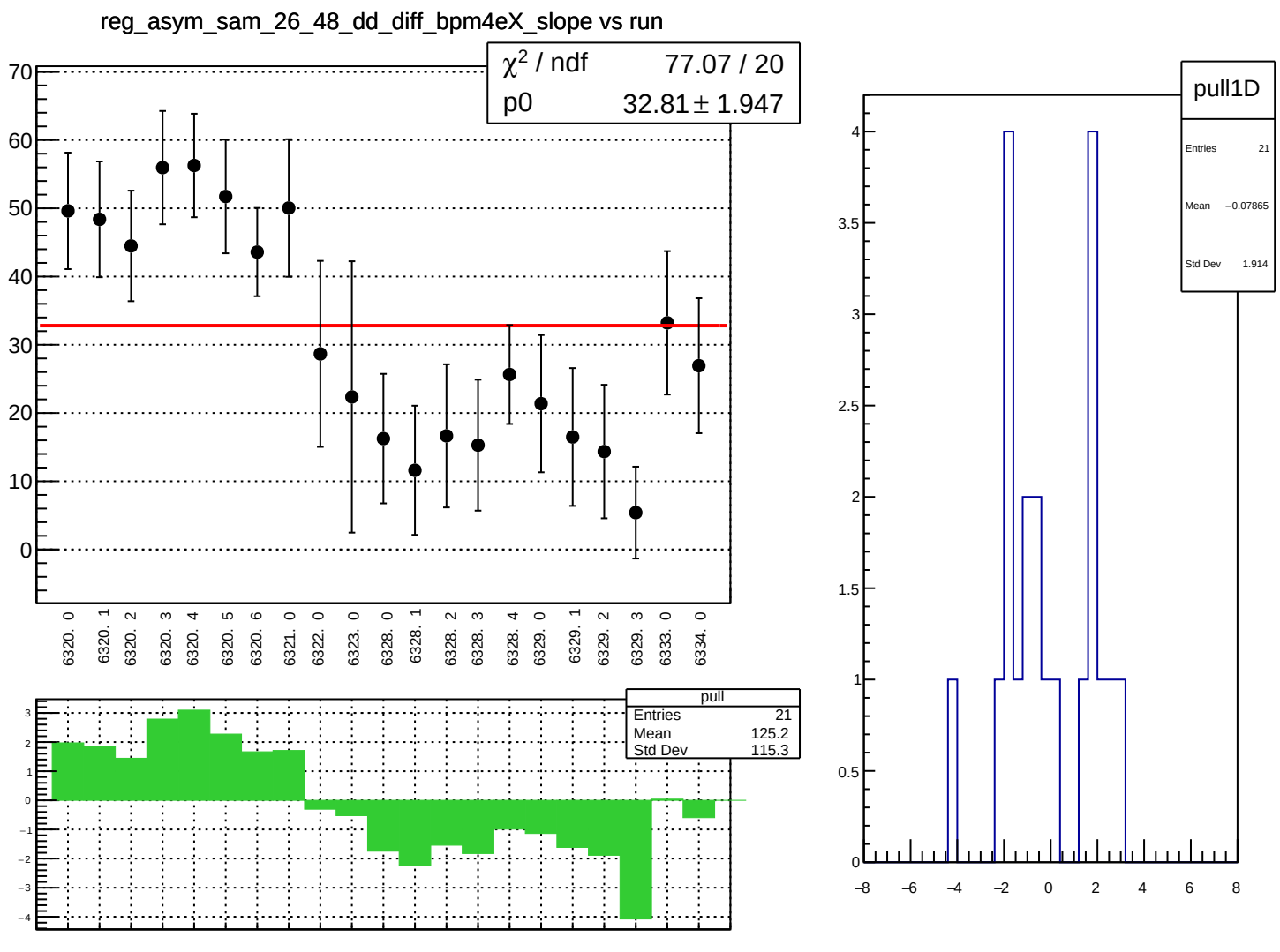

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.849 / 20
p0 0.1546 ± 0.1031
3
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.2816
Std Dev 7.738
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

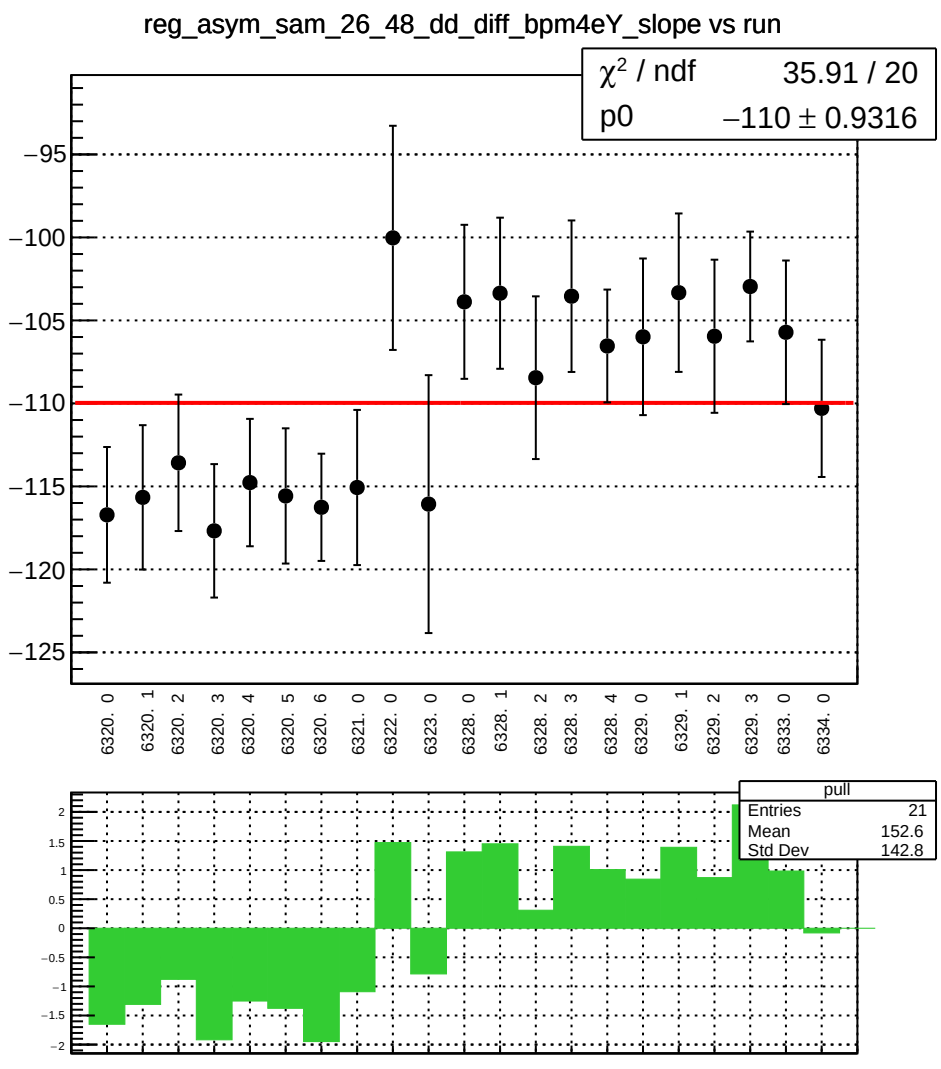

pull1D
Entries 21
Mean −0.1758
Std Dev 0.3904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

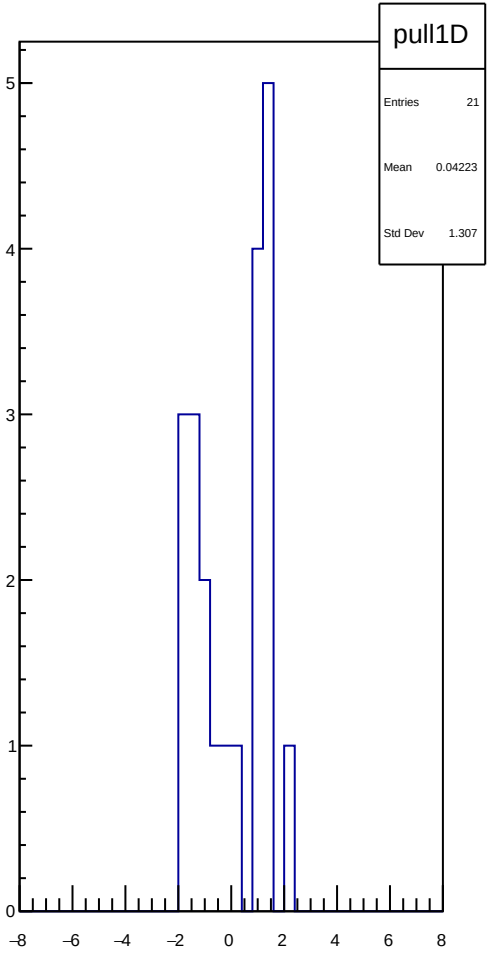

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 80.11 / 20
p0 −12.9 ± 1.795
20
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 137.9
Std Dev 128
4
3
2
1
0
−1
−2
−3
−4

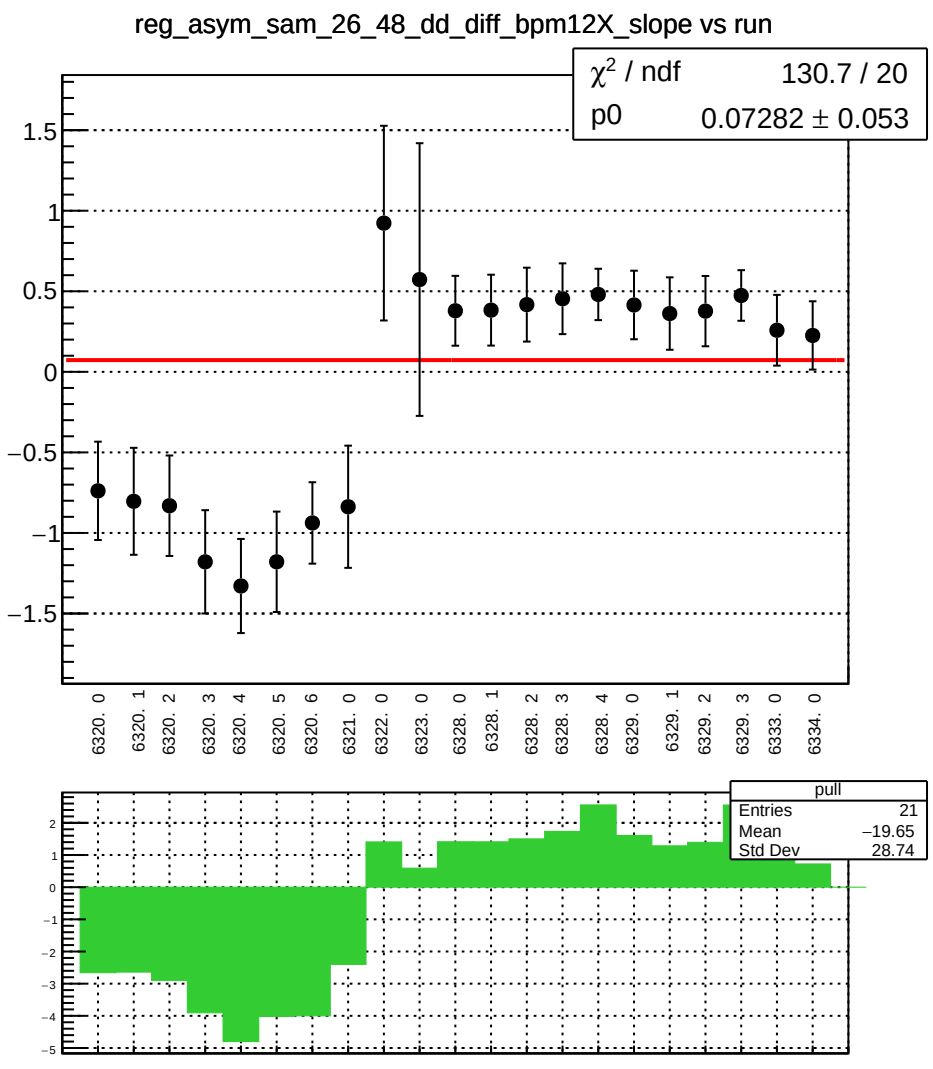

pull1D
Entries 21
Mean 0.07204
Std Dev 1.952
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

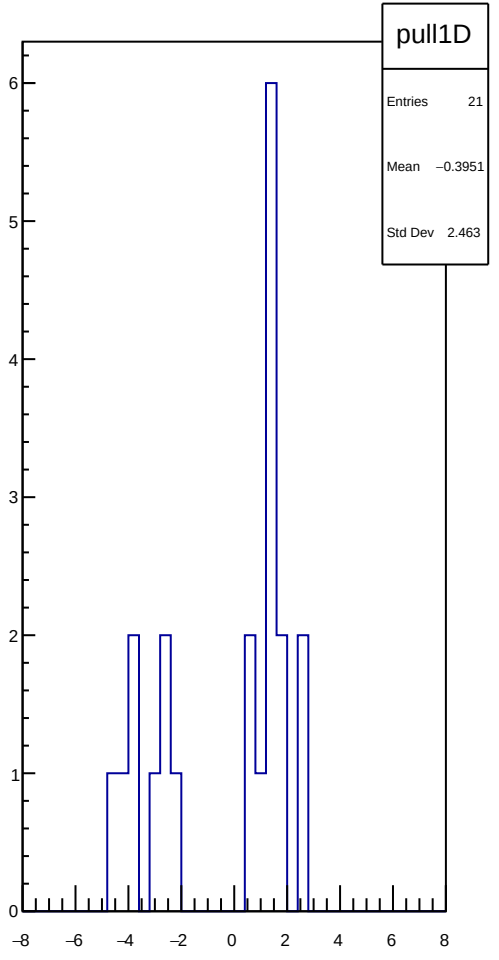

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.56 / 20
p0 18.37 ± 0.7975
30
25
20
15
10
5
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.68
Std Dev 36.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1518
Std Dev 1.311
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

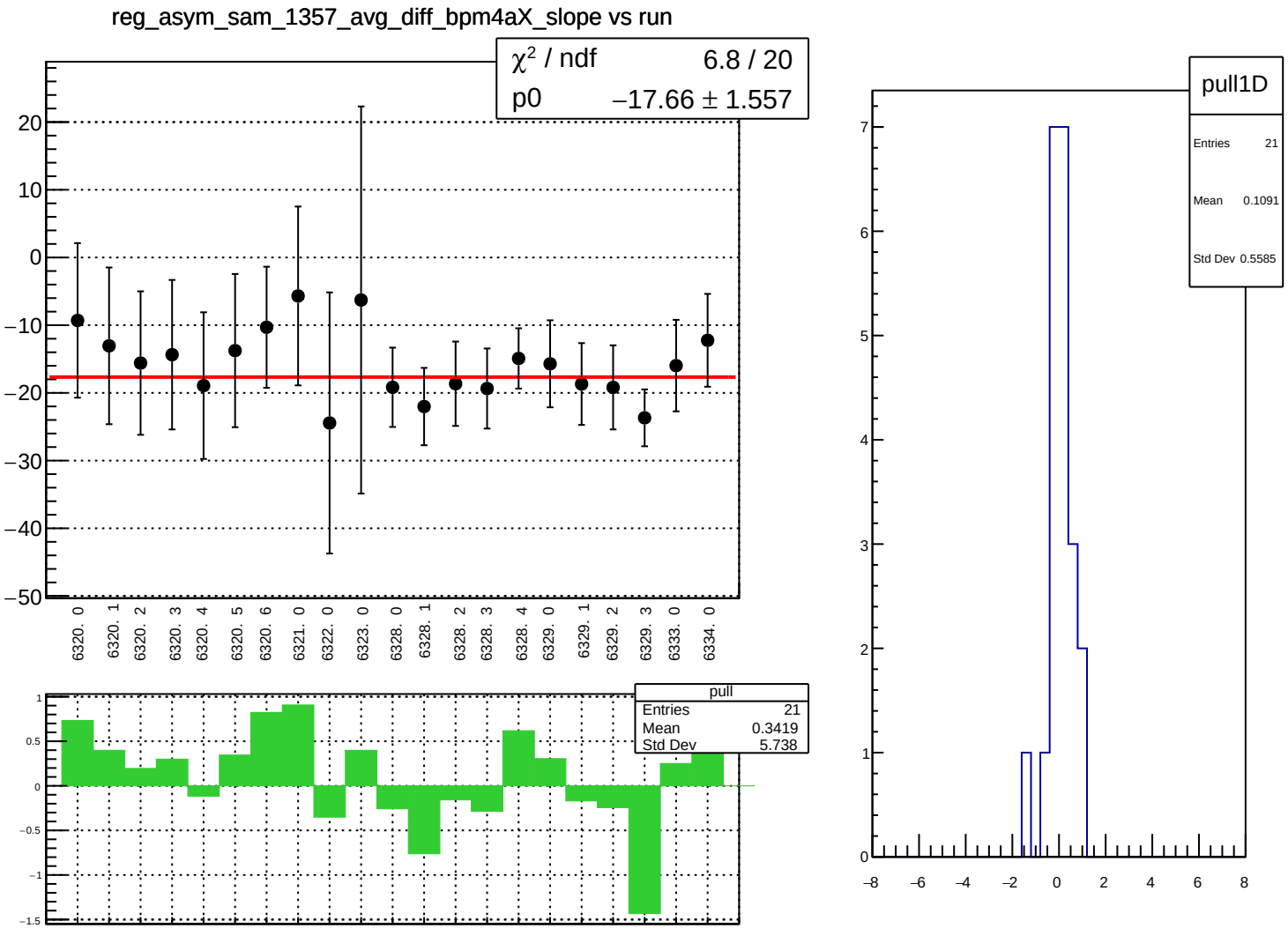

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.07 / 20
p0 32.81 ± 1.947
70
60
50
40
30
20
10
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 125.2
Std Dev 115.3
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 21
Mean −0.07865
Std Dev 1.914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

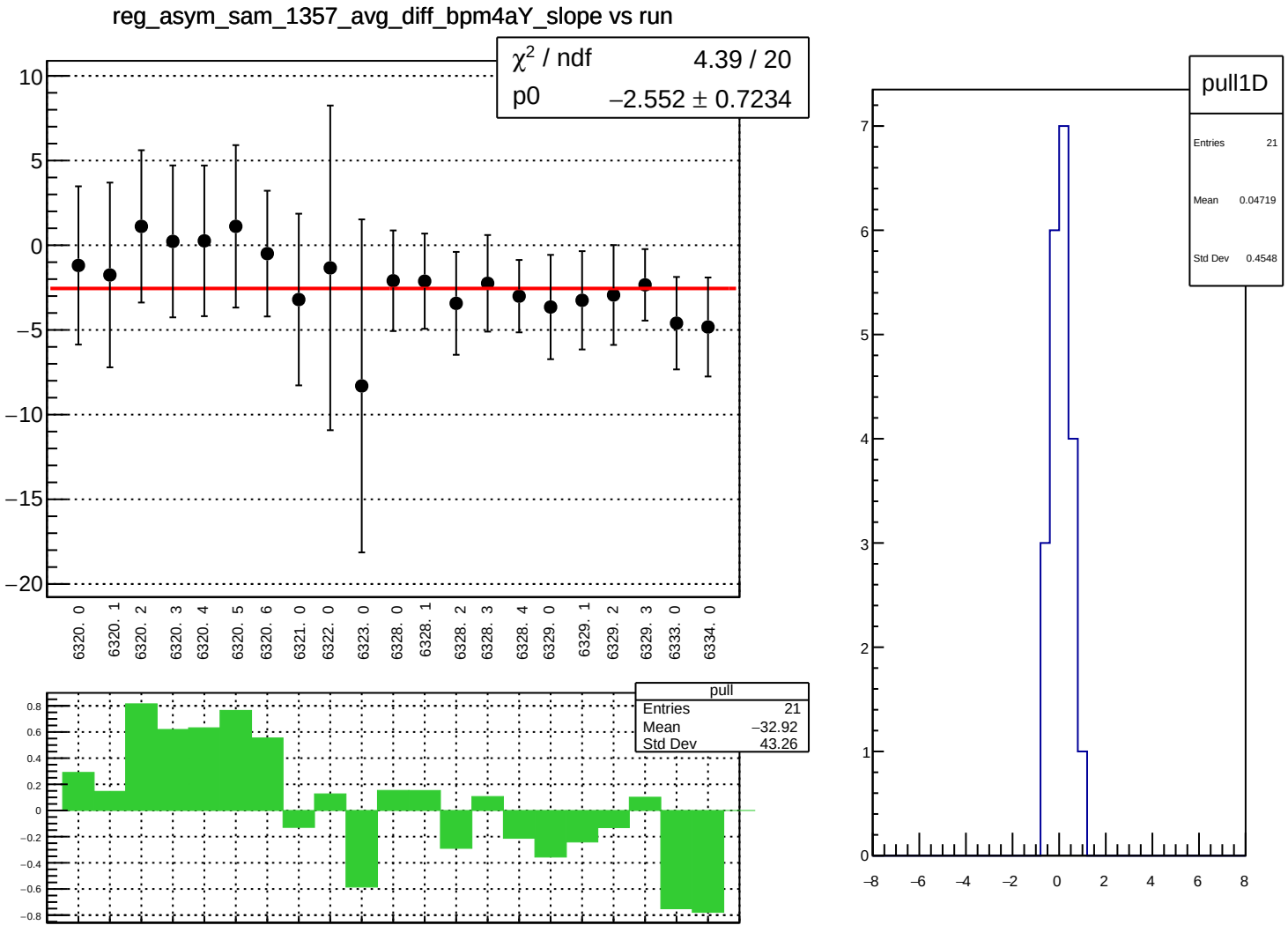

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.91 / 20
p0 −110 ± 0.9316
−95
−100
−105
−110
−115
−120
−125
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 152.6
Std Dev 142.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

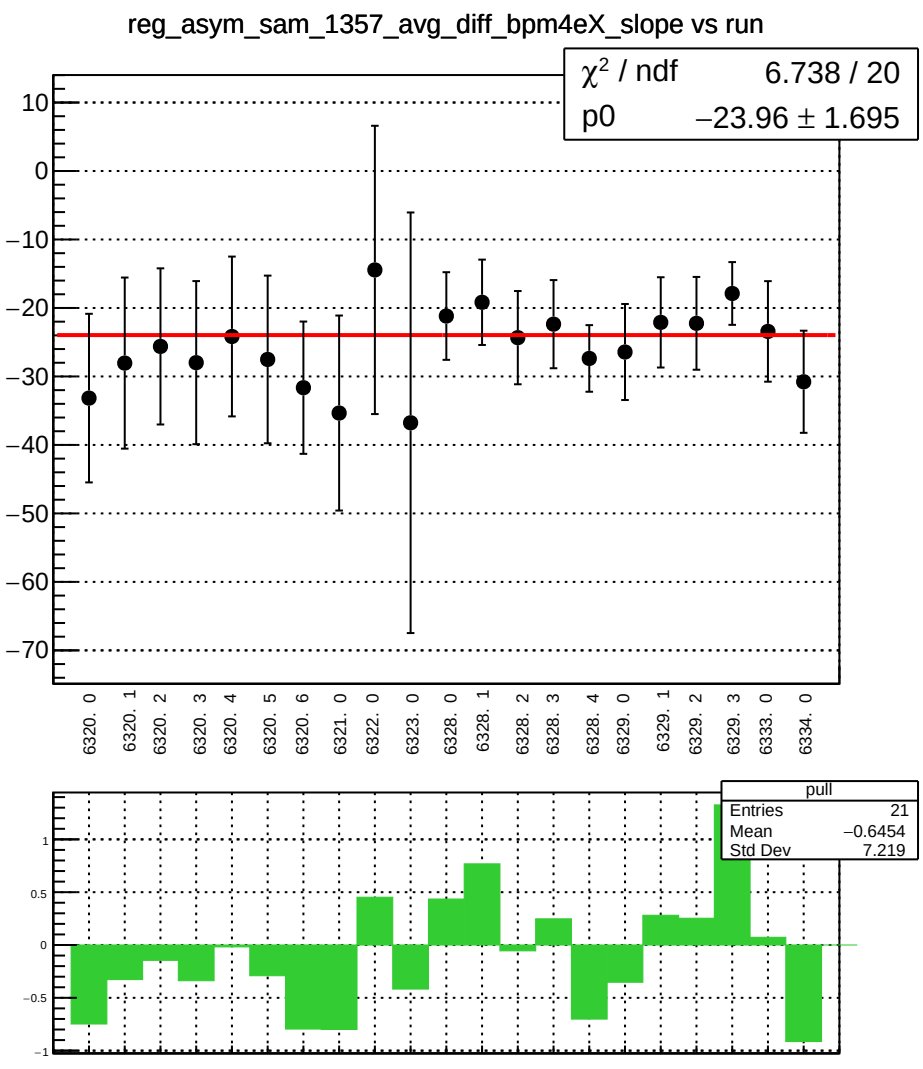

pull1D
Entries 21
Mean 0.04223
Std Dev 1.307
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

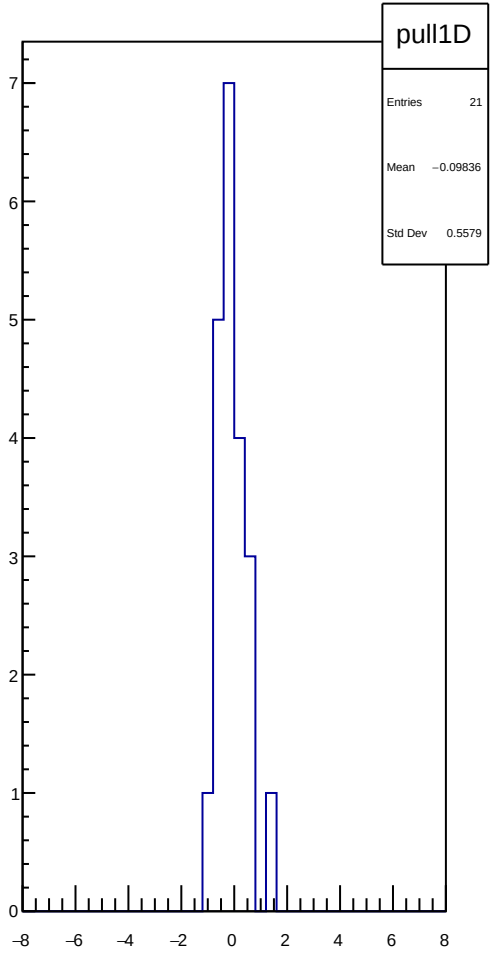

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 130.7 / 20
p0 0.07282 ± 0.053
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −19.65
Std Dev 28.74
2
1
0
−1
−2
−3
−4
−5

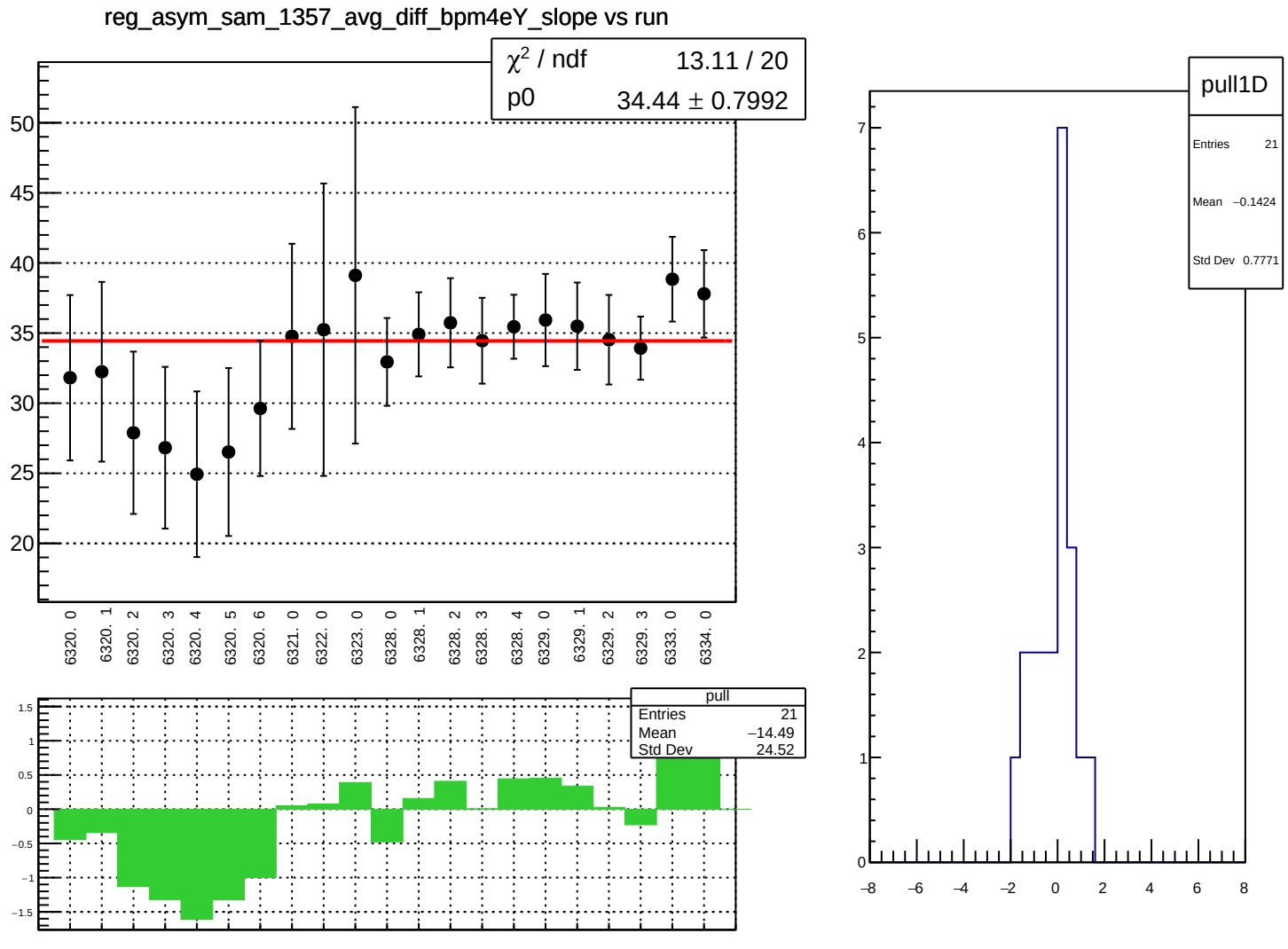

pull1D
Entries 21
Mean −0.3951
Std Dev 2.463
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

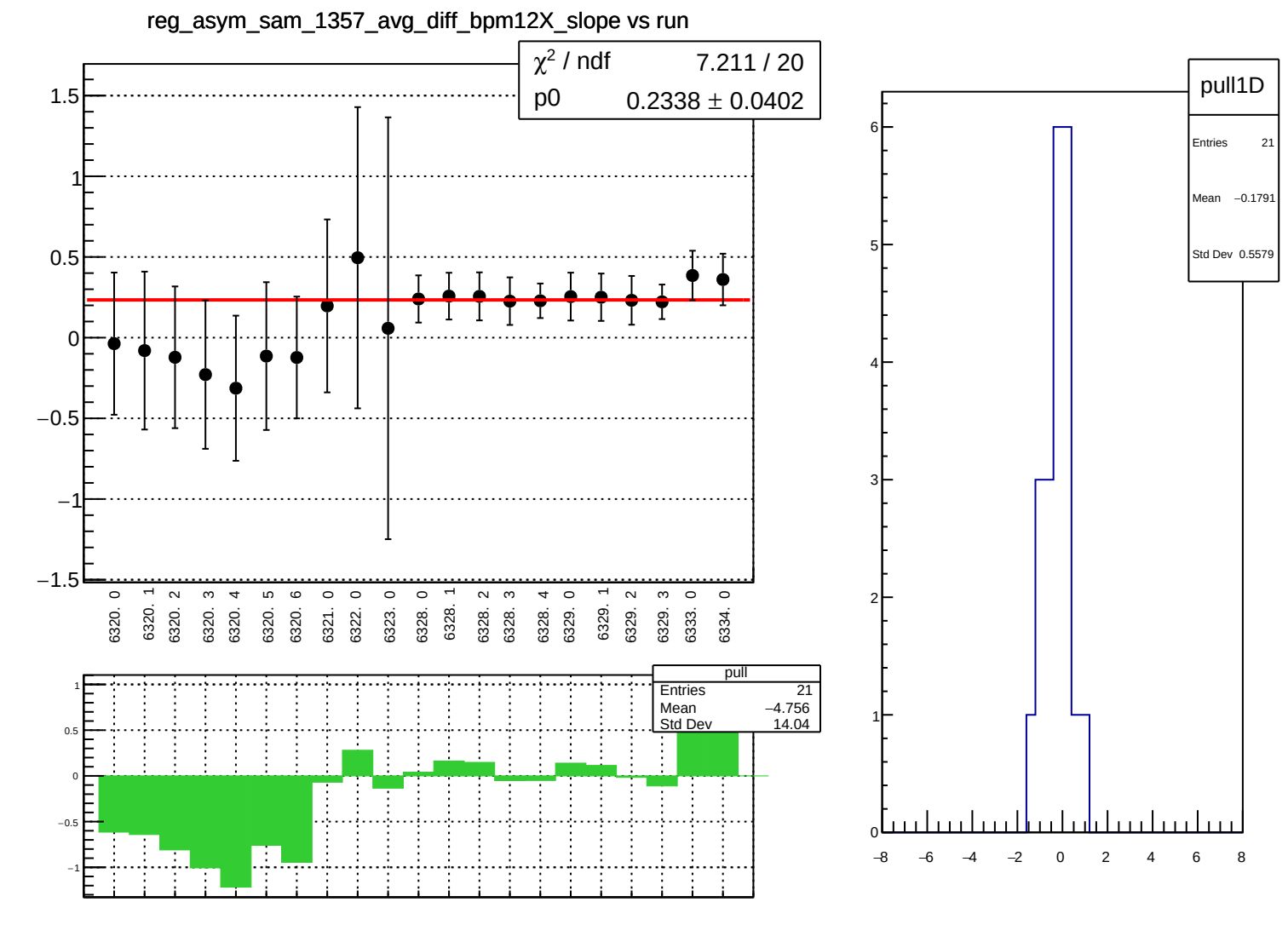

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.8 / 20
p0 −17.66 ± 1.557
20
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.3419
Std Dev 5.738
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.1091
Std Dev 0.5585
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

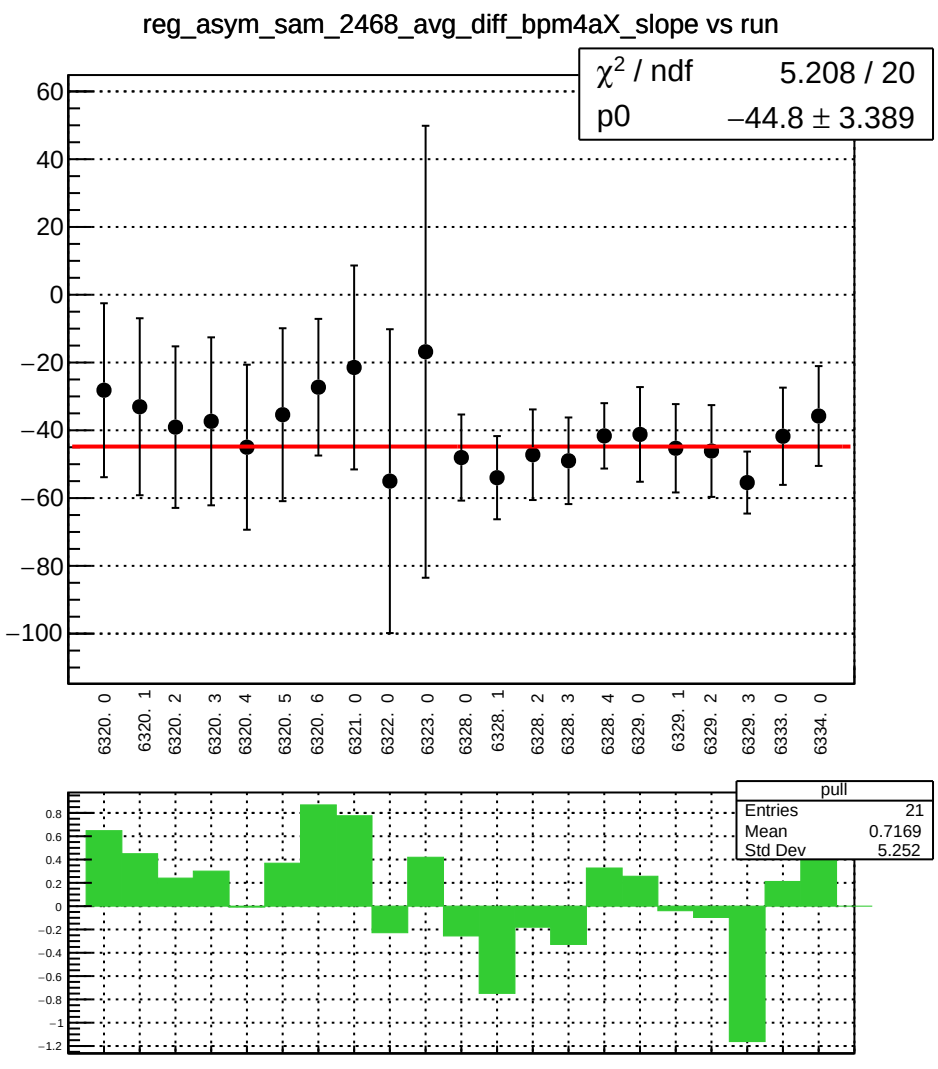

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.39 / 20
p0 −2.552 ± 0.7234
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −32.92
Std Dev 43.26
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.04719
Std Dev 0.4548
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

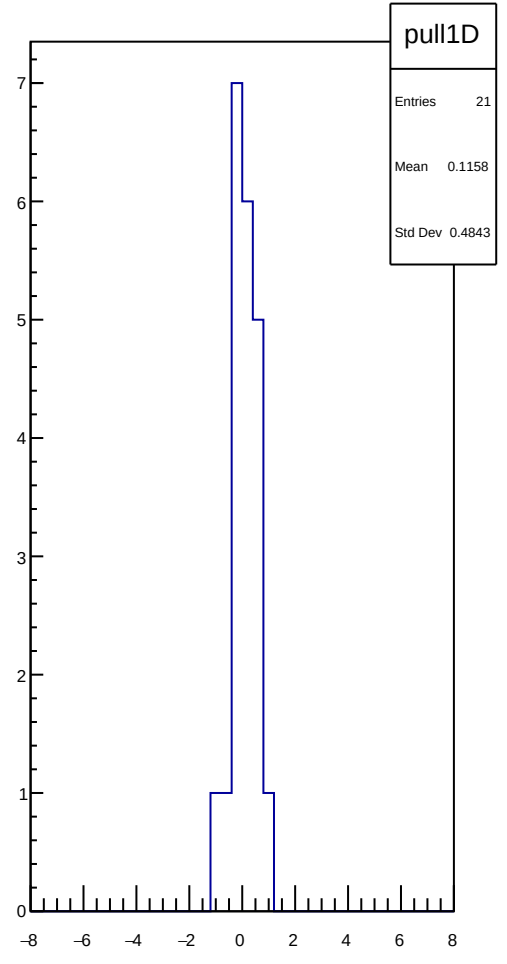

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.738 / 20
p0 −23.96 ± 1.695
10
0
−10
−20
−30
−40
−50
−60
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.6454
Std Dev 7.219
1
0.5
0
−0.5
−1

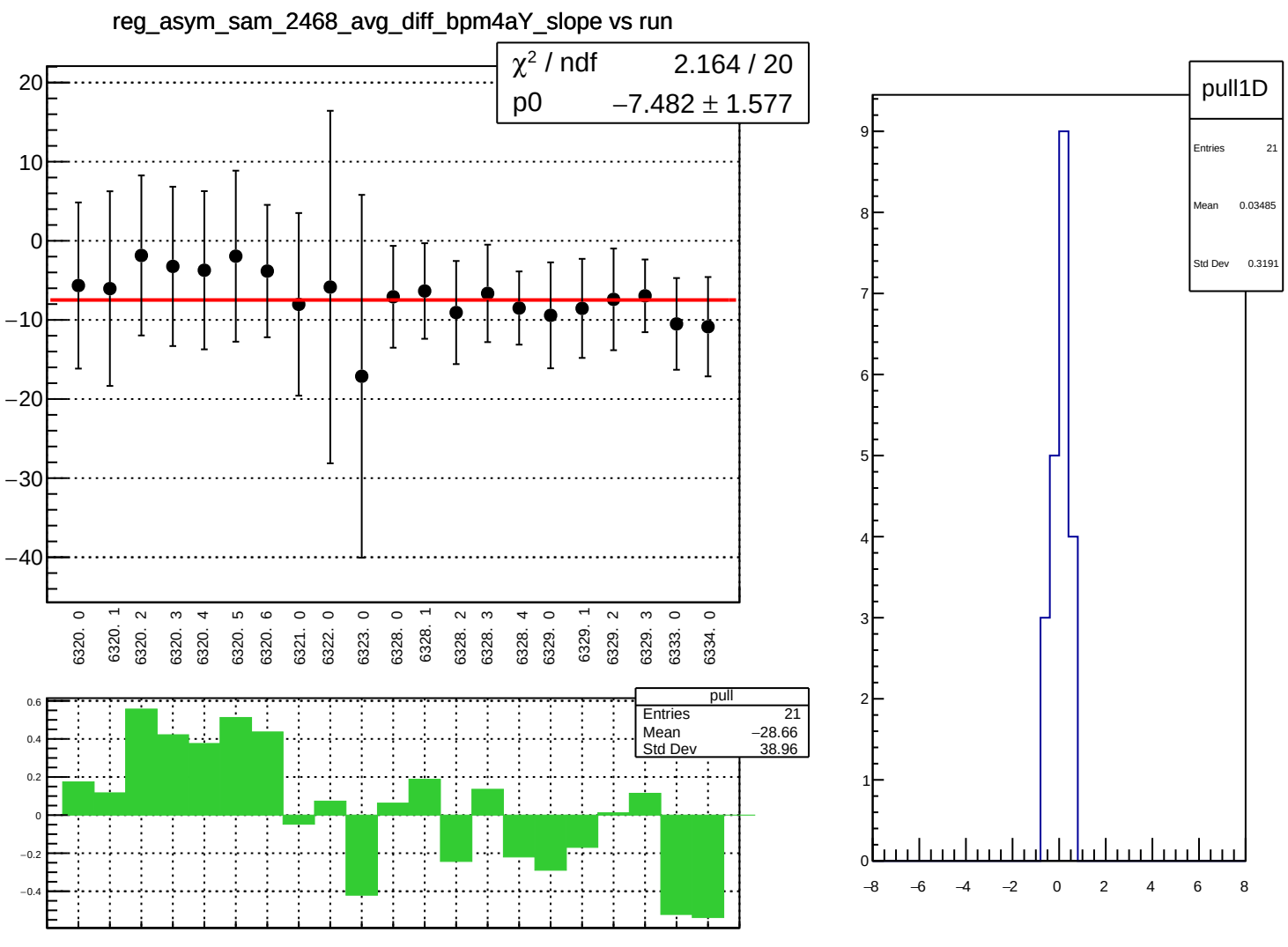

pull1D
Entries 21
Mean −0.09836
Std Dev 0.5579
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

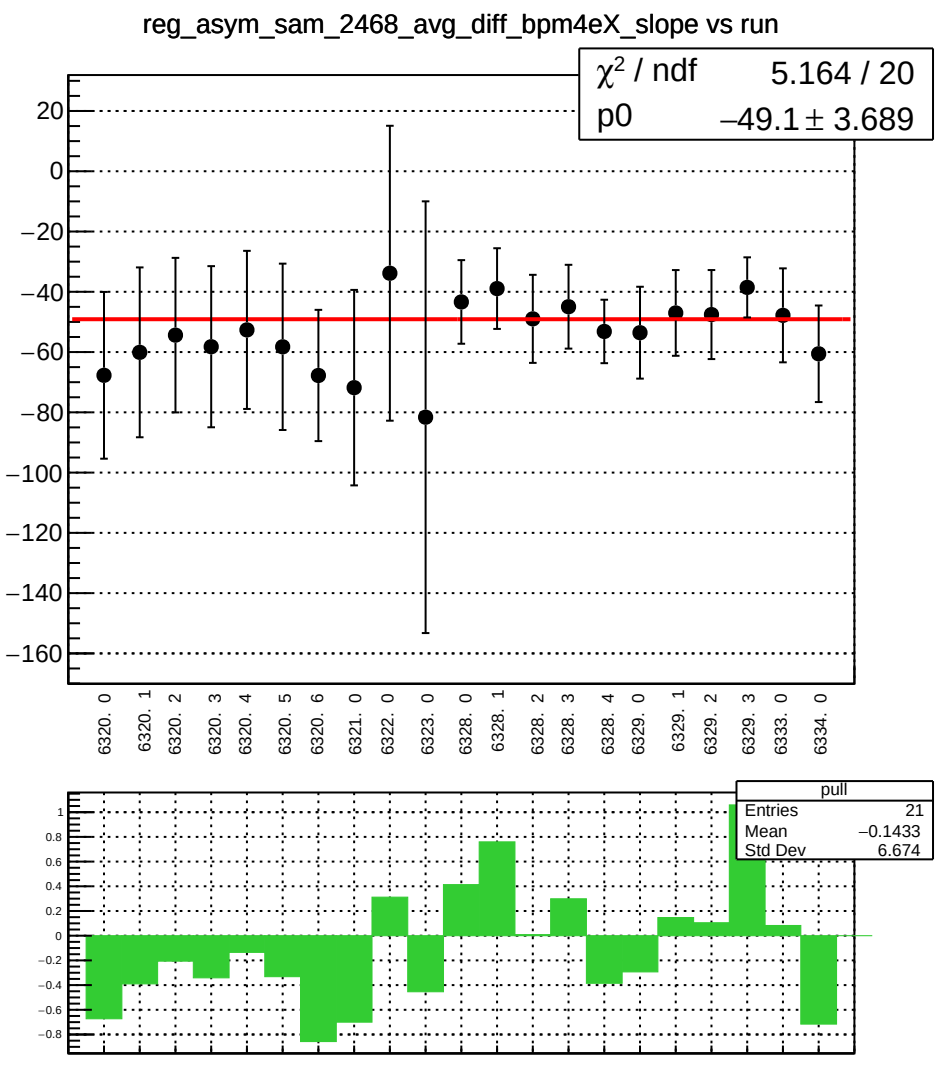

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.11 / 20
p0 34.44 ± 0.7992
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.49
Std Dev 24.52
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.1424
Std Dev 0.7771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

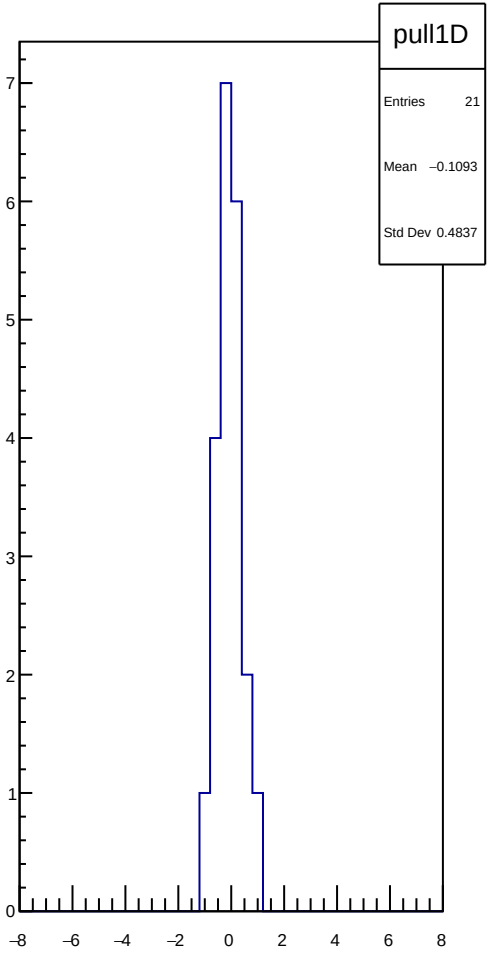

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 7.211 / 20
p0 0.2338 ± 0.0402
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −4.756
Std Dev 14.04
pull1D
Entries 21
Mean −0.1791
Std Dev 0.5579
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

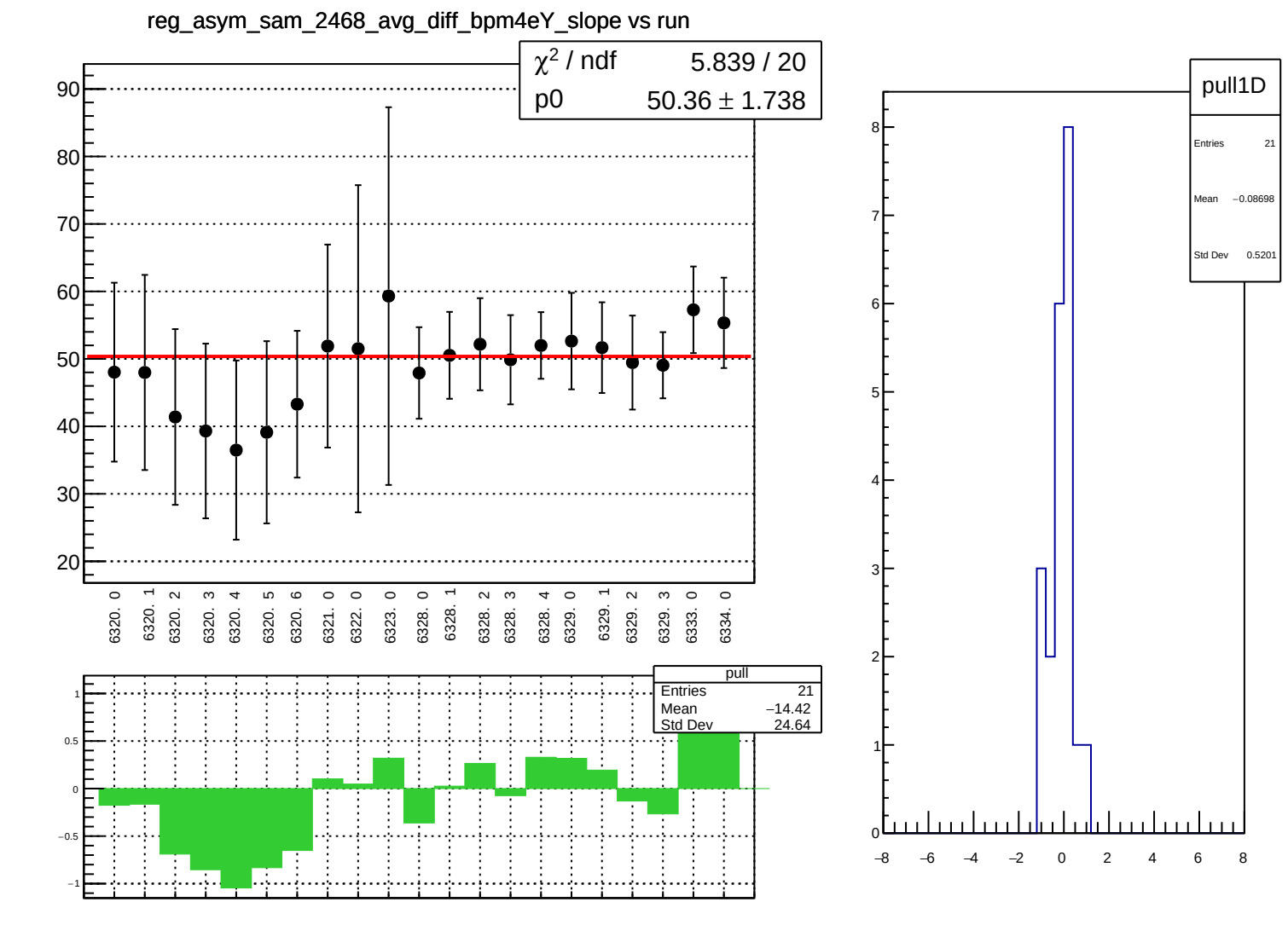

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.208 / 20
p0 −44.8 ± 3.389
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.7169
Std Dev 5.252
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

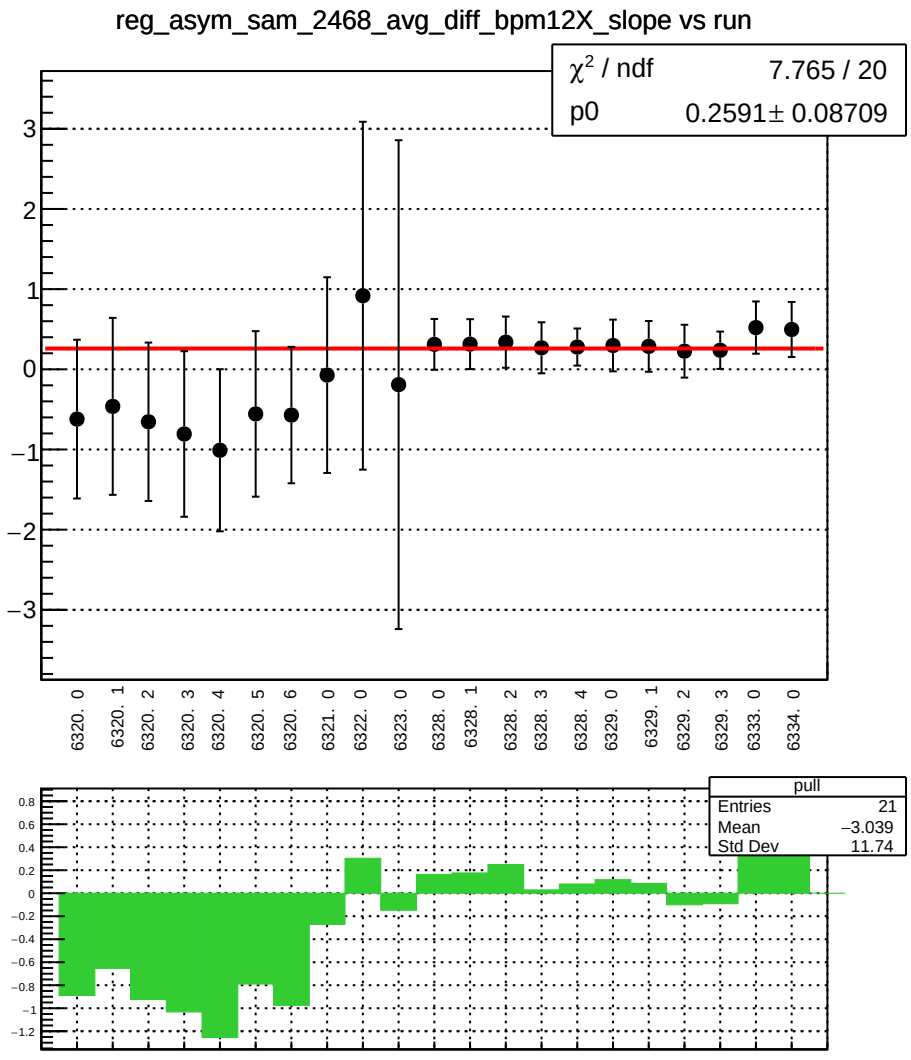

pull1D
Entries 21
Mean 0.1158
Std Dev 0.4843
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

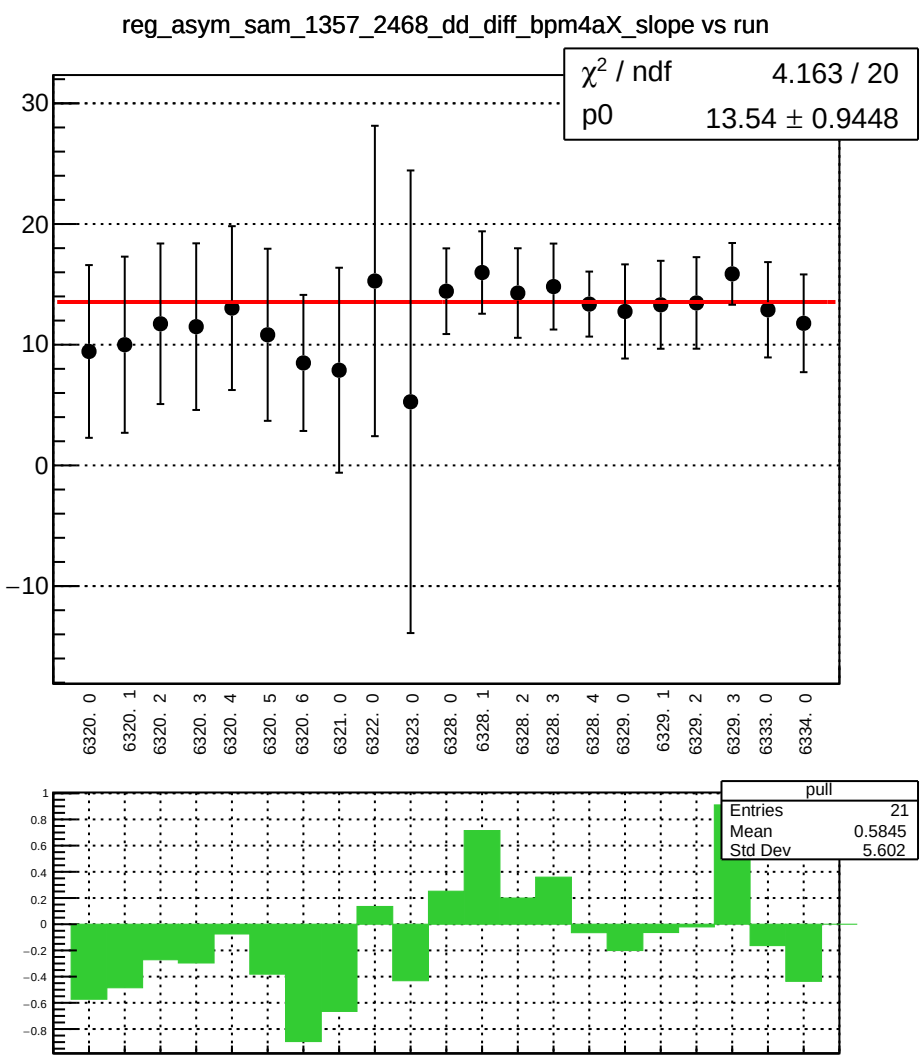

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.164 / 20
p0 −7.482 ± 1.577
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.66
Std Dev 38.96
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.03485
Std Dev 0.3191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

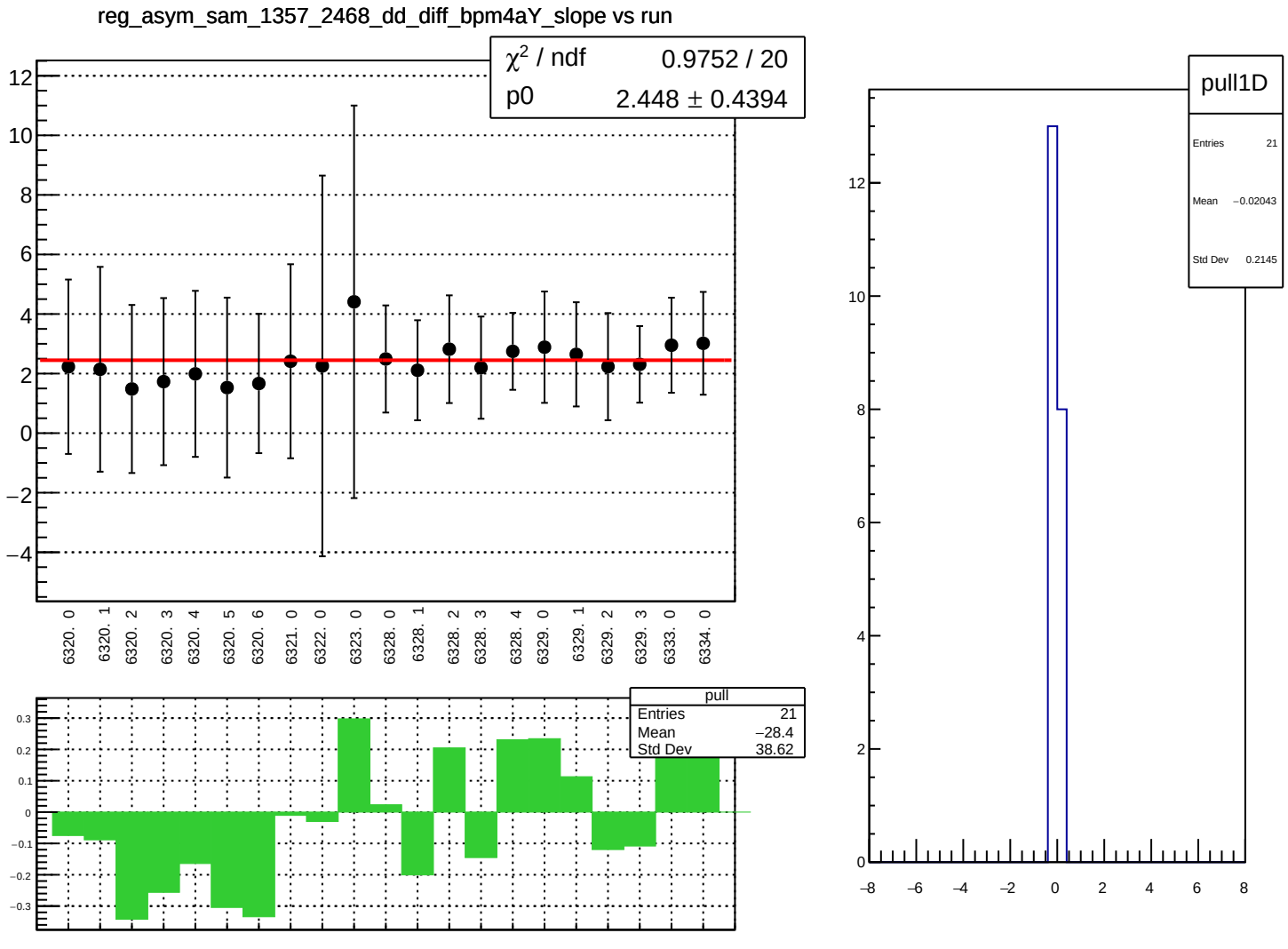

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.164 / 20
p0 −49.1 ± 3.689
20
0
−20
−40
−60
−80
−100
−120
−140
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.1433
Std Dev 6.674
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

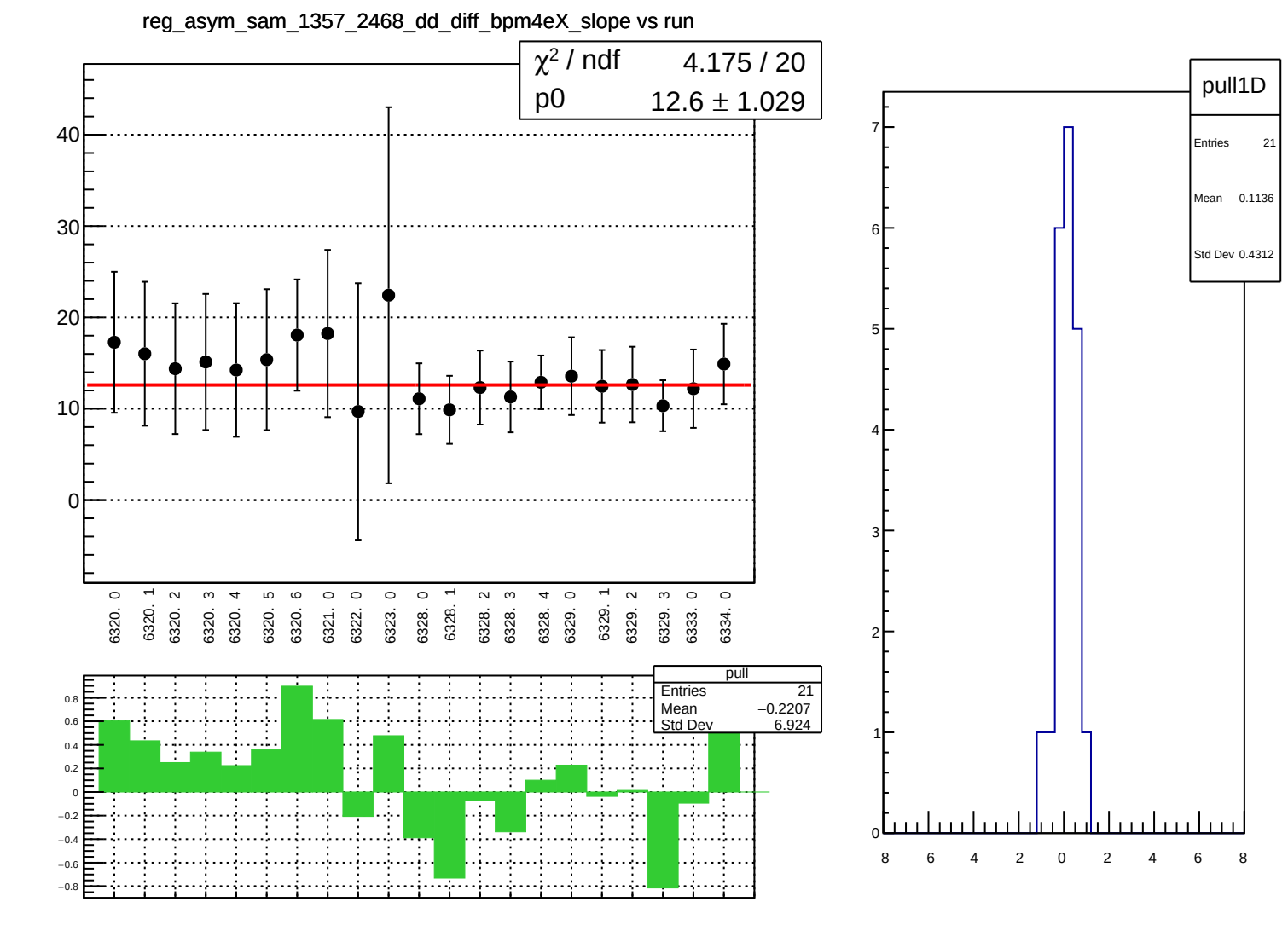

pull1D
Entries 21
Mean −0.1093
Std Dev 0.4837
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

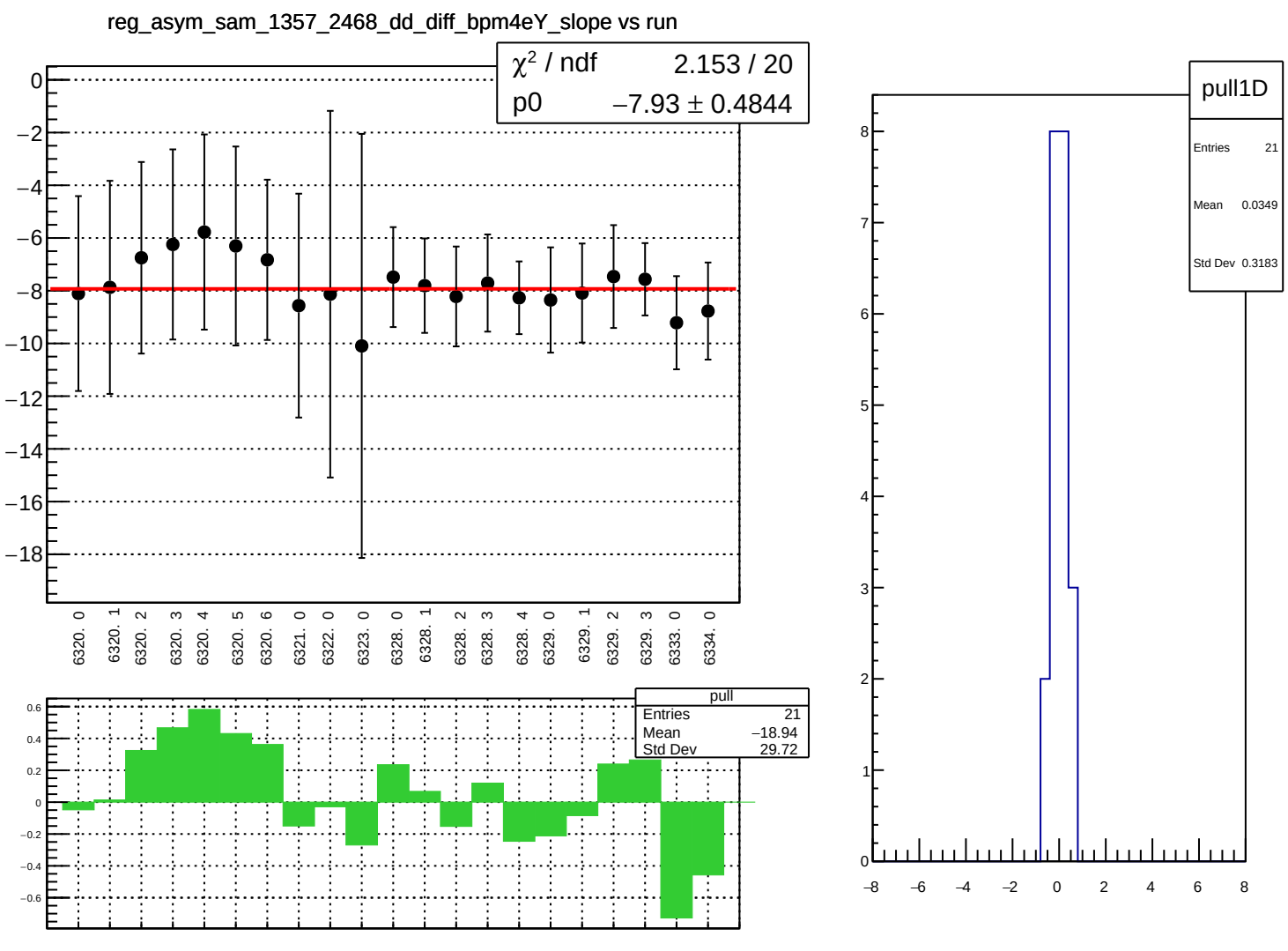

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.839 / 20
p0 50.36 ± 1.738
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.42
Std Dev 24.64
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.08698
Std Dev 0.5201
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

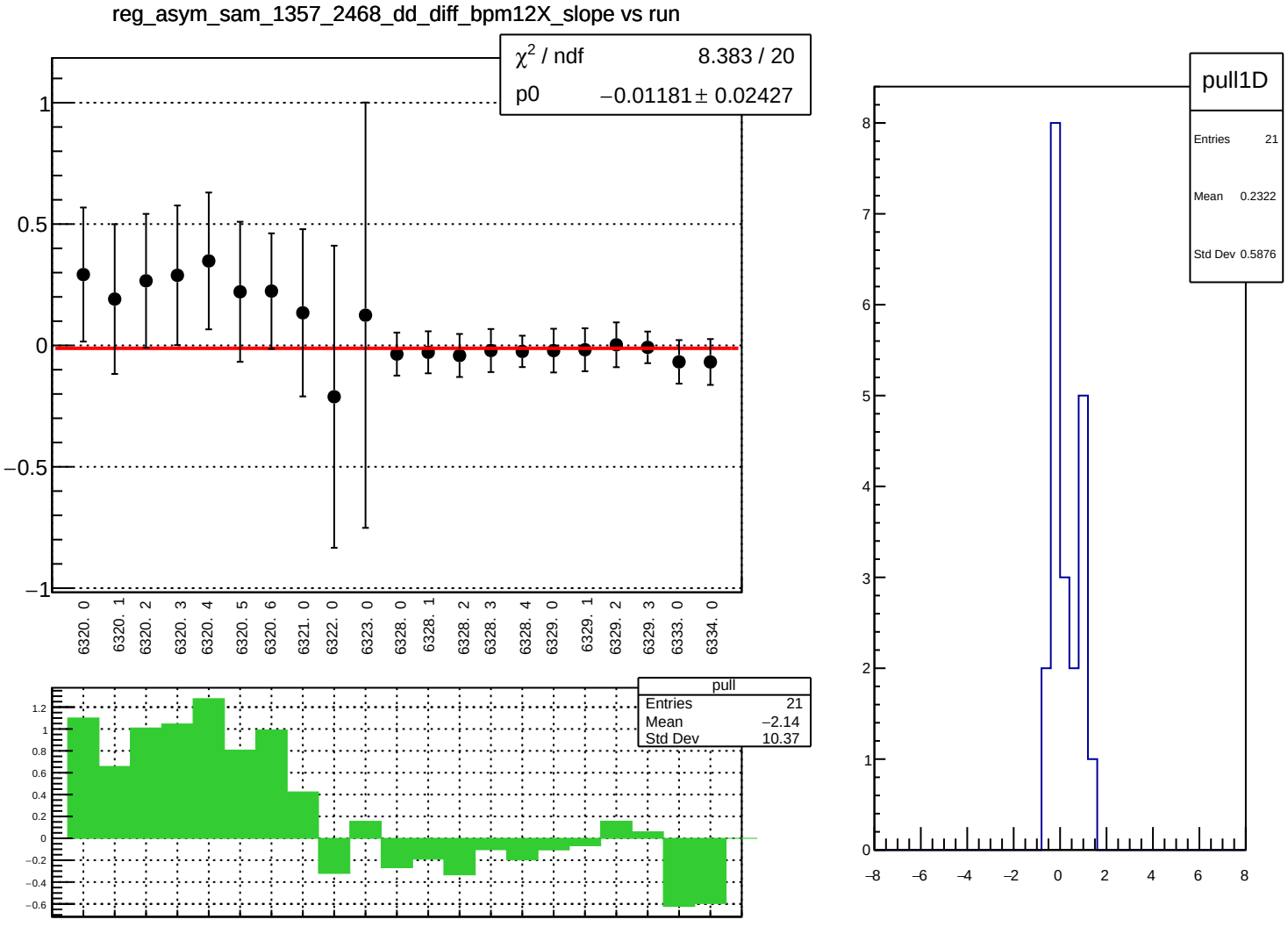

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 7.765 / 20
p0 0.2591± 0.08709
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.039
Std Dev 11.74
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 21
Mean −0.2111
Std Dev 0.5703
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

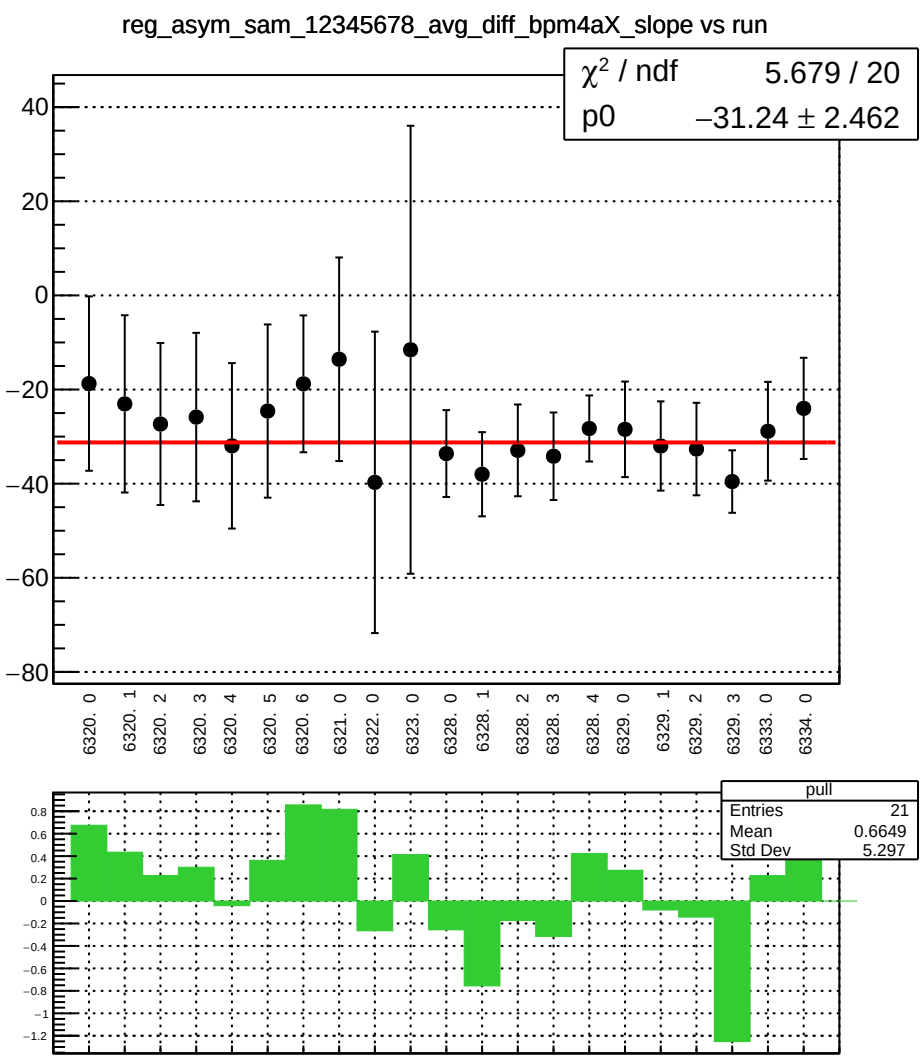

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.163 / 20
p0 13.54 ± 0.9448
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.5845
Std Dev 5.602
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.1166
Std Dev 0.4297
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

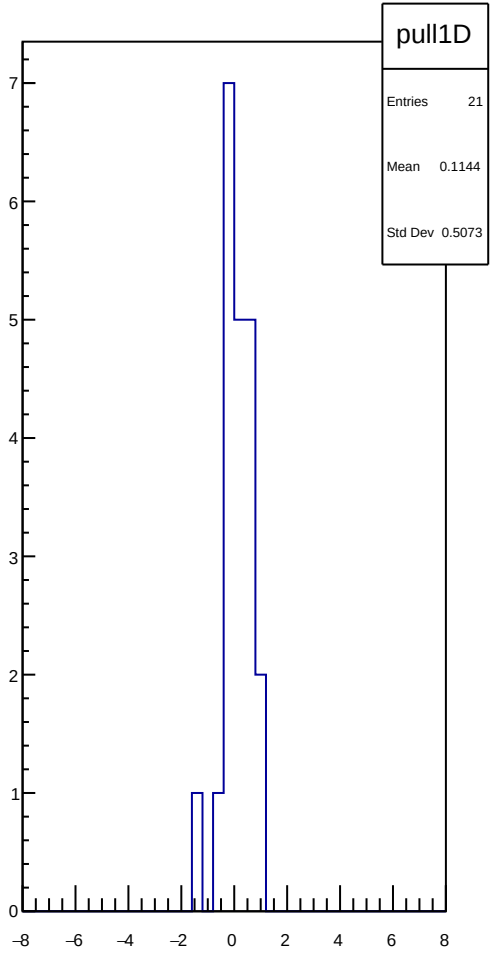

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9752 / 20
p0 2.448 ± 0.4394
12
10
8
6
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.4
Std Dev 38.62
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 21
Mean −0.02043
Std Dev 0.2145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

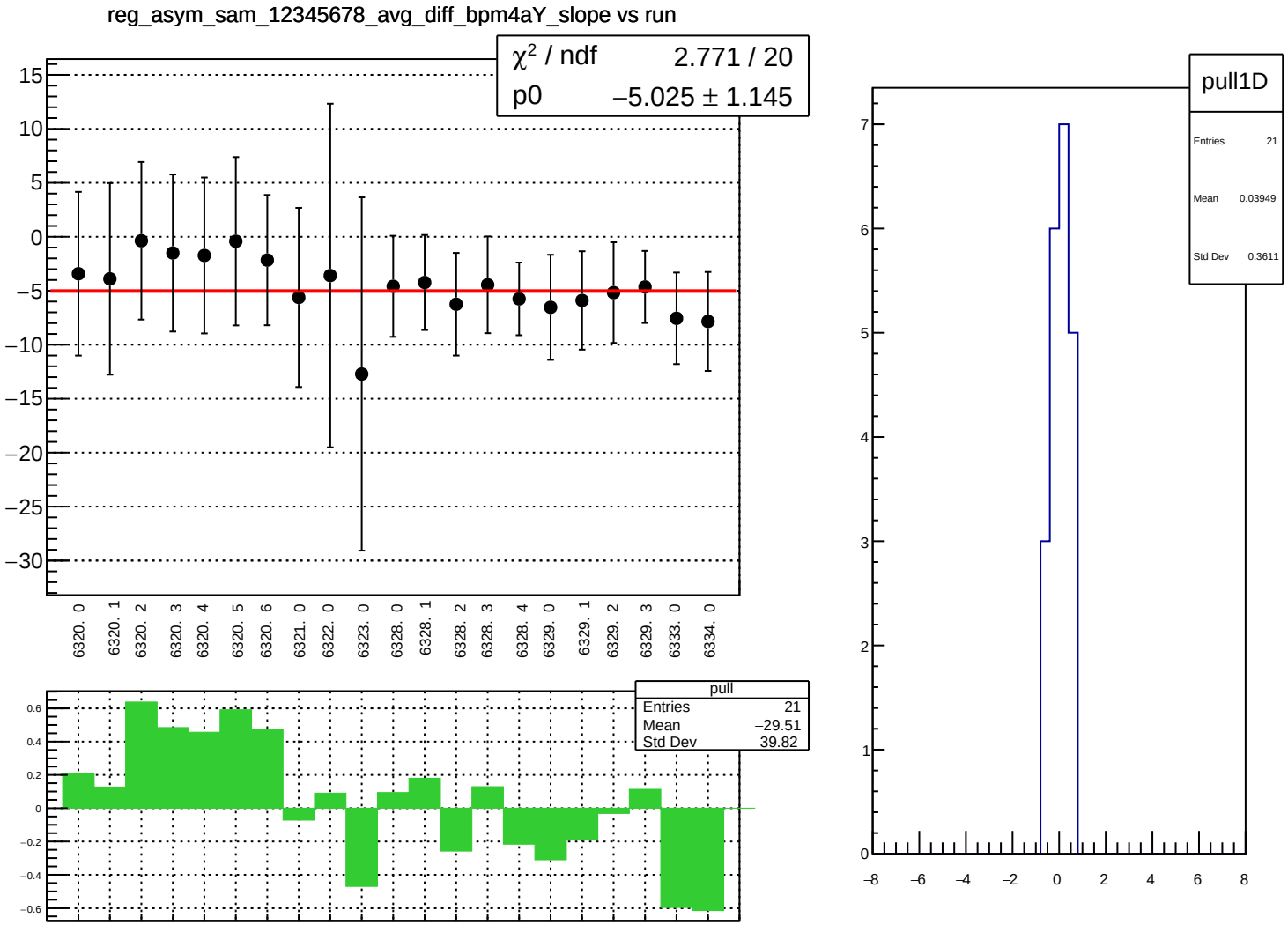

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.175 / 20
p0 12.6 ± 1.029
40
30
20
10
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.2207
Std Dev 6.924
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.1136
Std Dev 0.4312
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

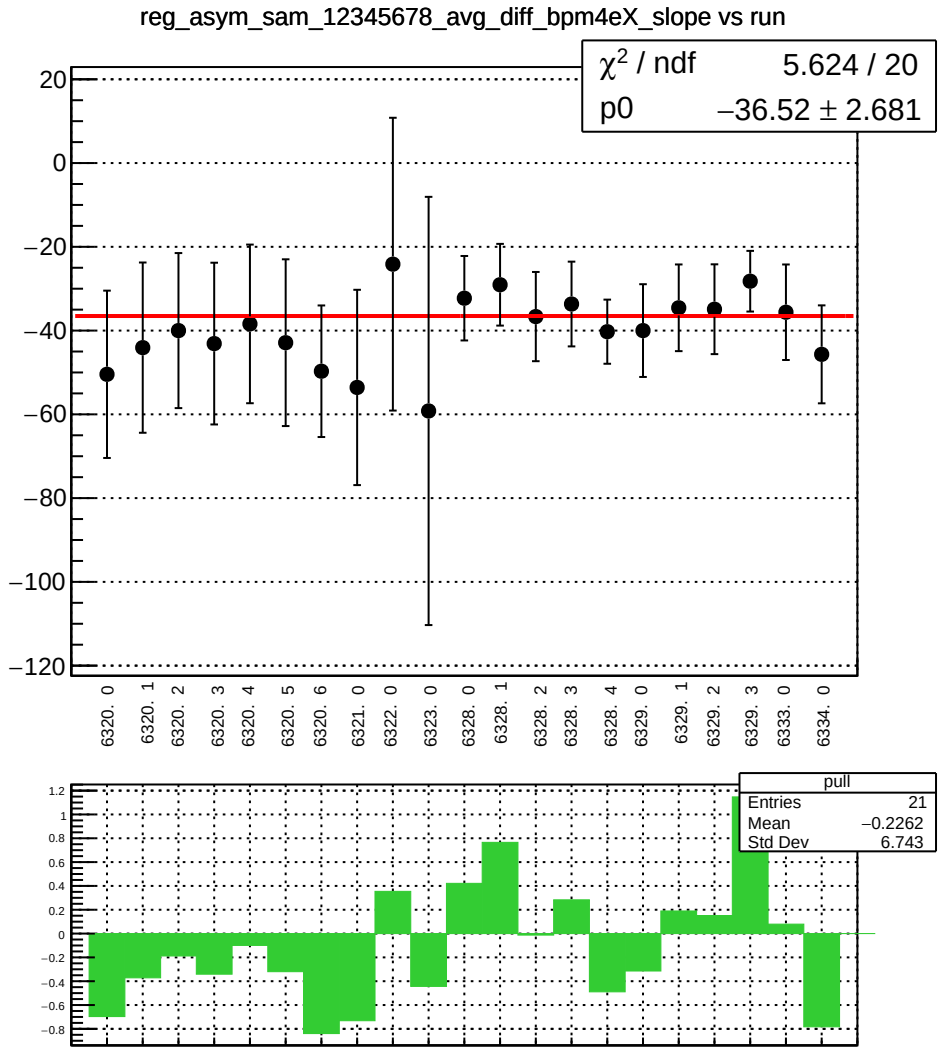

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.153 / 20
p0 −7.93 ± 0.4844
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.94
Std Dev 29.72
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.0349
Std Dev 0.3183
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

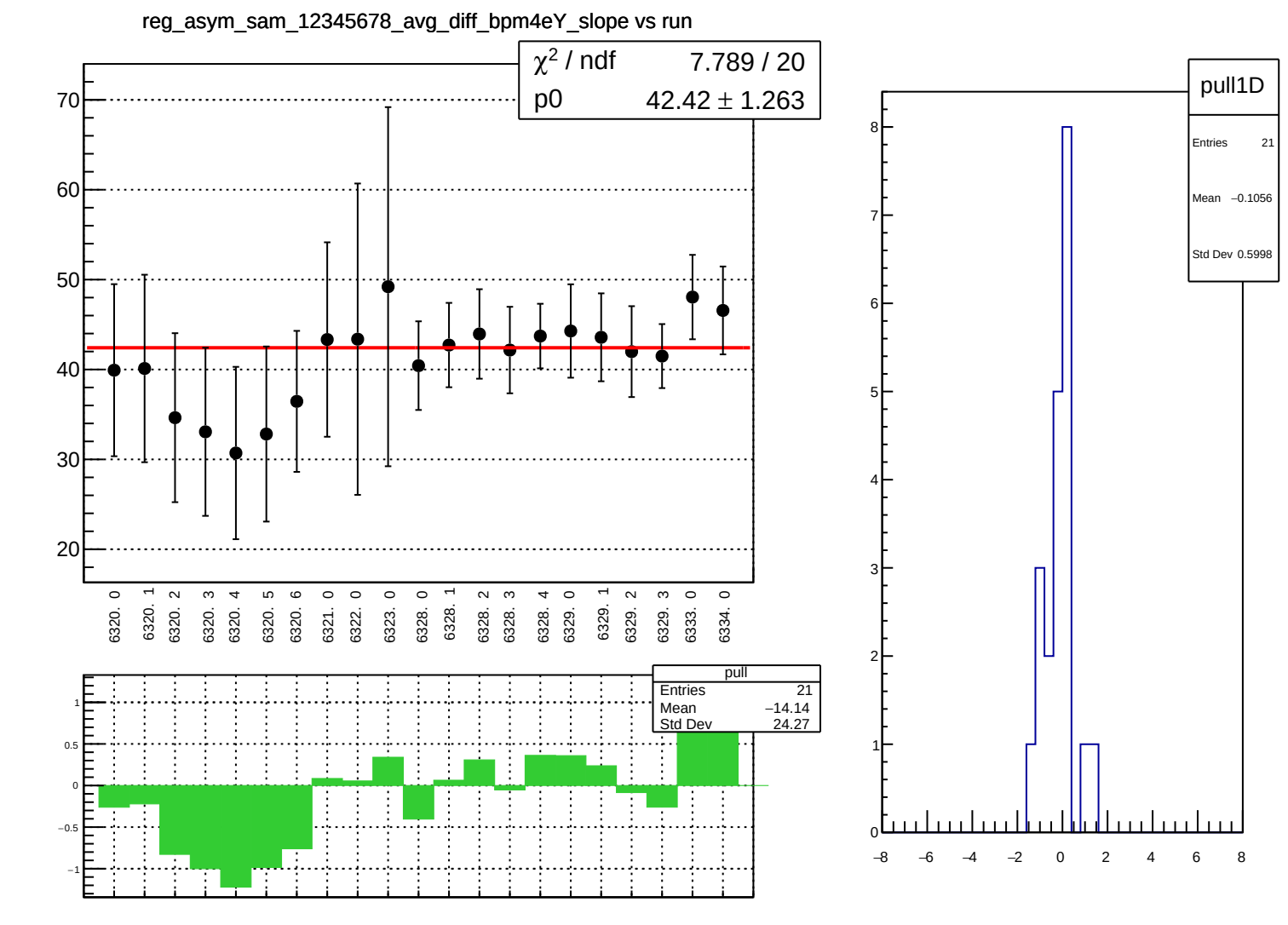

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 8.383 / 20
p0 −0.01181 ± 0.02427
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.14
Std Dev 10.37
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.2322
Std Dev 0.5876
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

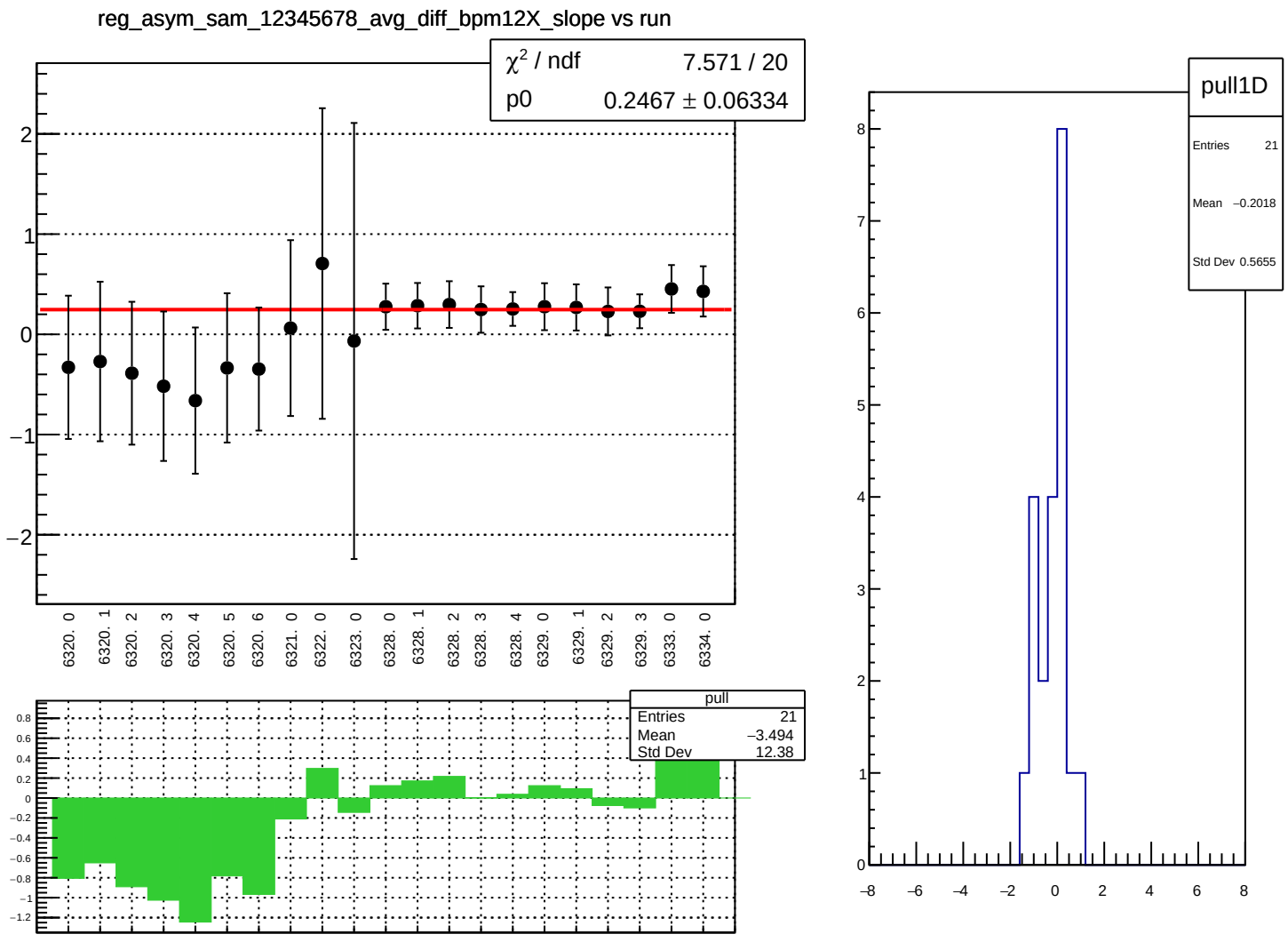

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.679 / 20
p0 −31.24 ± 2.462
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.6649
Std Dev 5.297
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

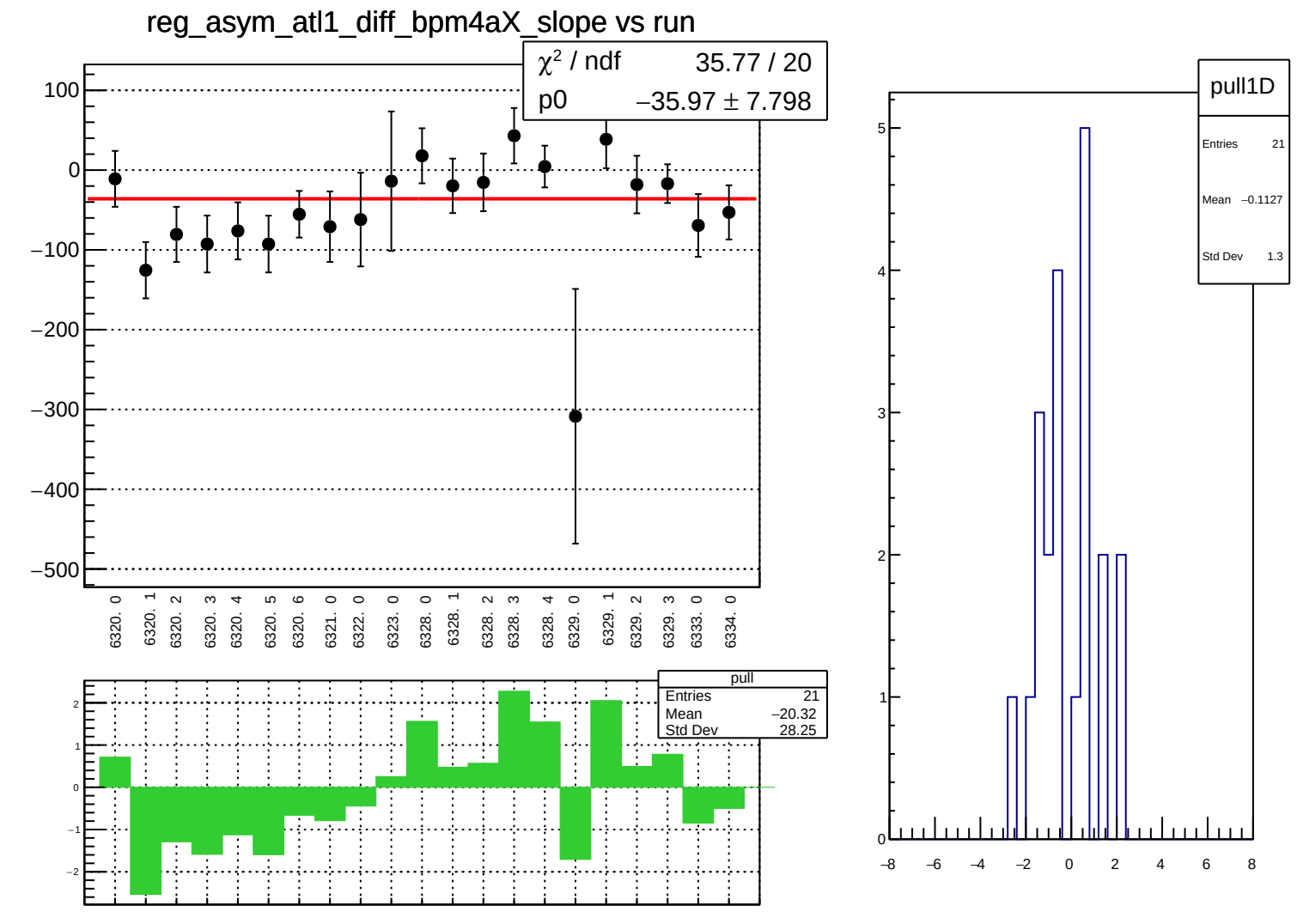

pull1D
Entries 21
Mean 0.1144
Std Dev 0.5073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

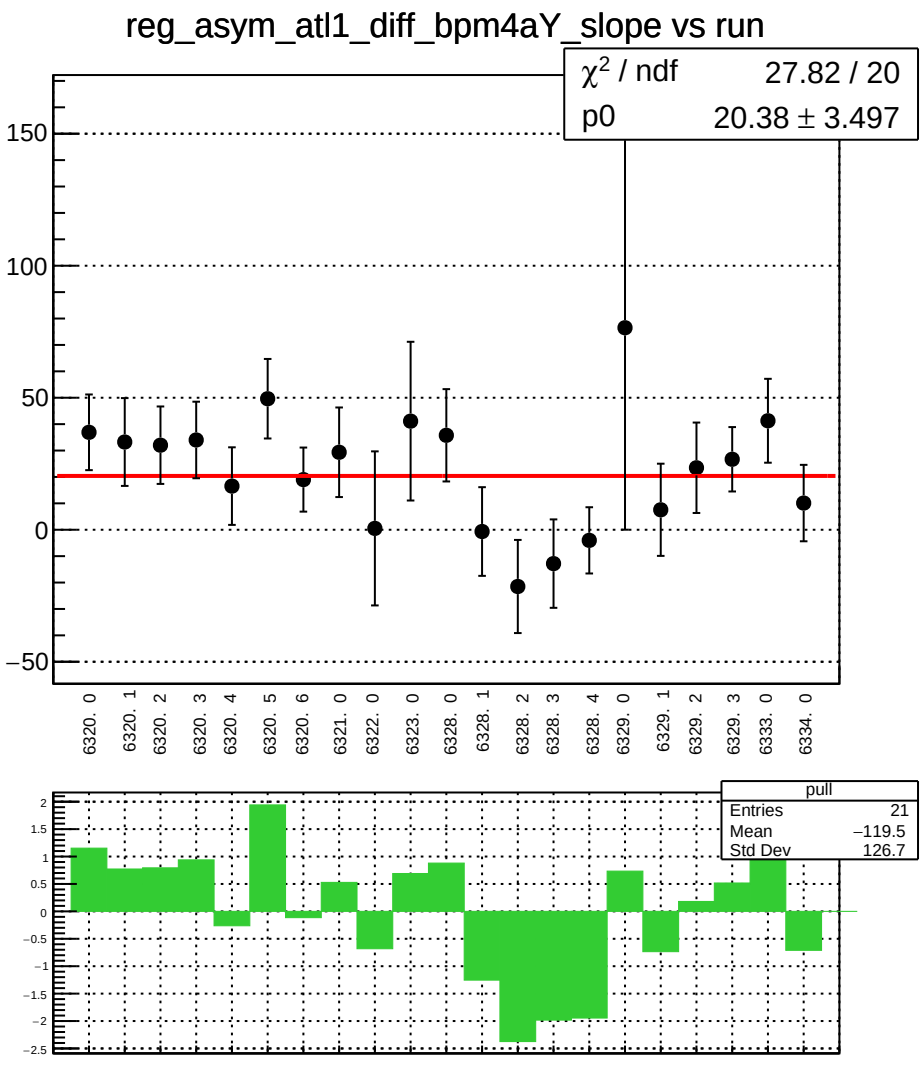

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.771 / 20
p0 −5.025 ± 1.145
15
10
5
0
−5
−10
−15
−20
−25
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.51
Std Dev 39.82
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.03949
Std Dev 0.3611
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

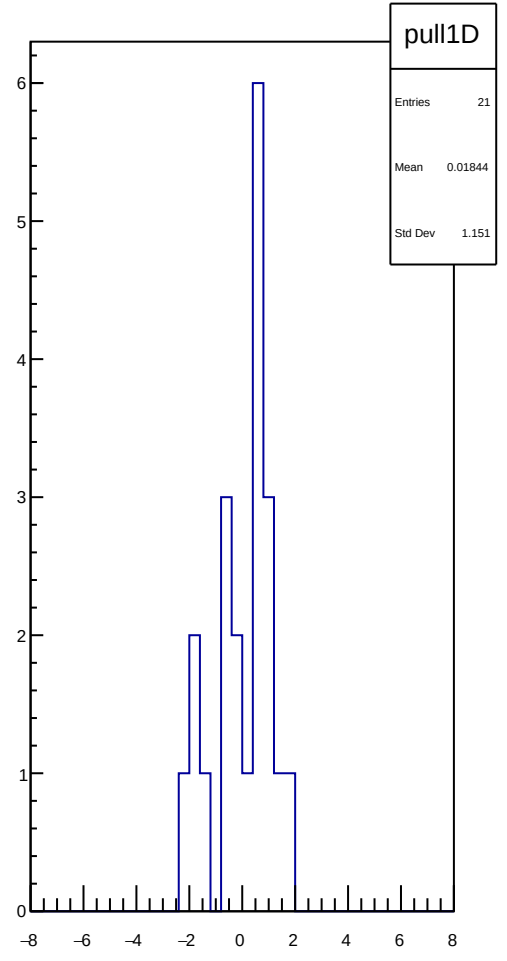

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.624 / 20
p0 −36.52 ± 2.681
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.2262
Std Dev 6.743
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.1066
Std Dev 0.5064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

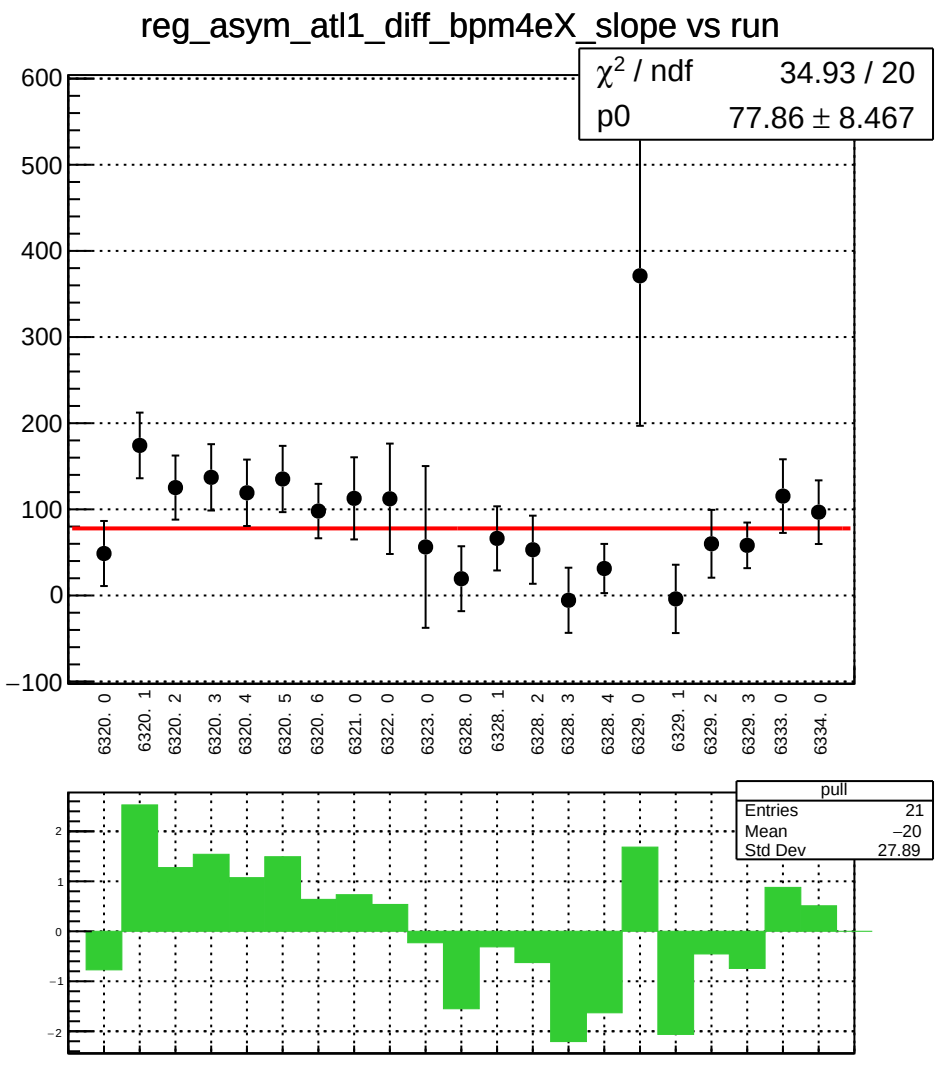

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.789 / 20
p0 42.42 ± 1.263
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.14
Std Dev 24.27
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1056
Std Dev 0.5998
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

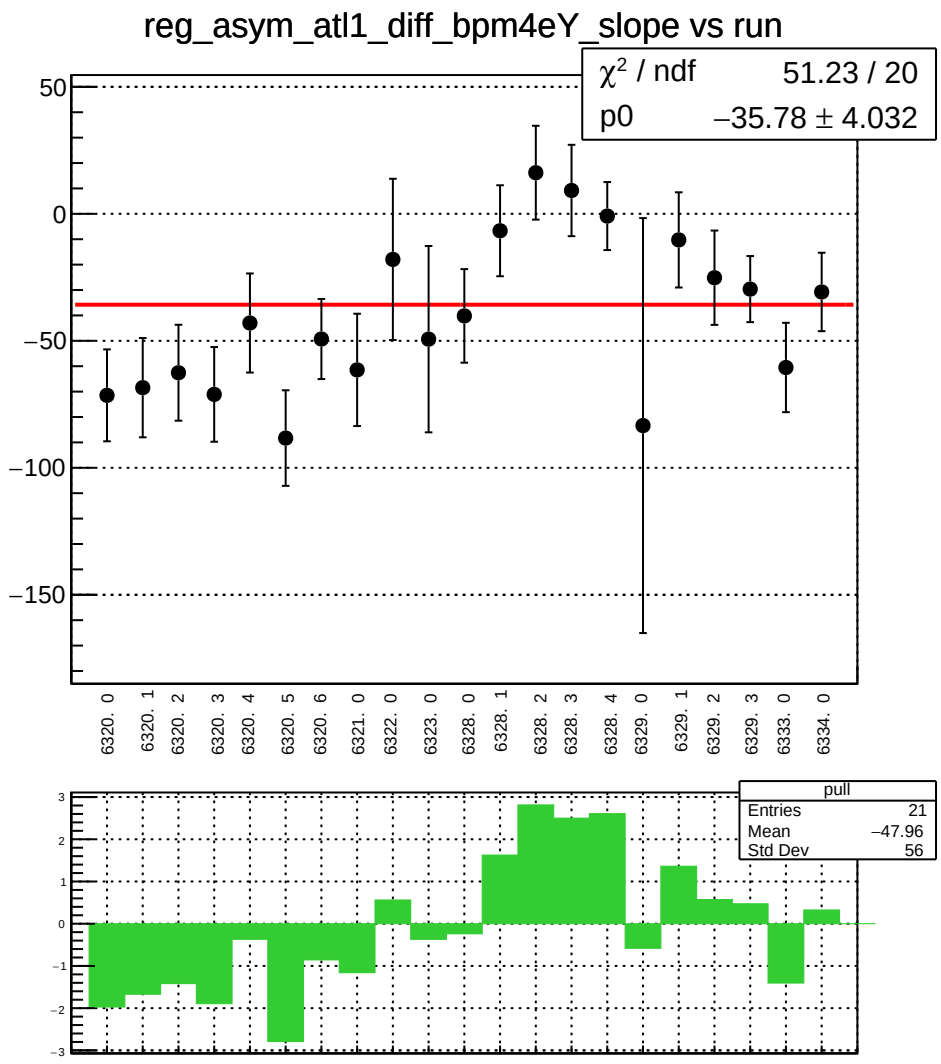

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 7.571 / 20
p0 0.2467 ± 0.06334
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.494
Std Dev 12.38
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 21
Mean −0.2018
Std Dev 0.5655
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

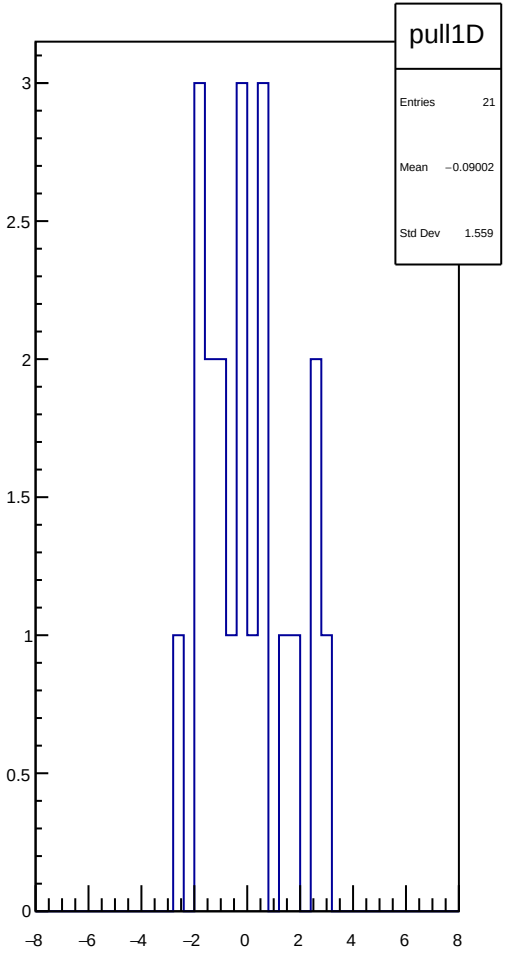

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 35.77 / 20
p0 −35.97 ± 7.798
100
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.32
Std Dev 28.25
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.1127
Std Dev 1.3
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

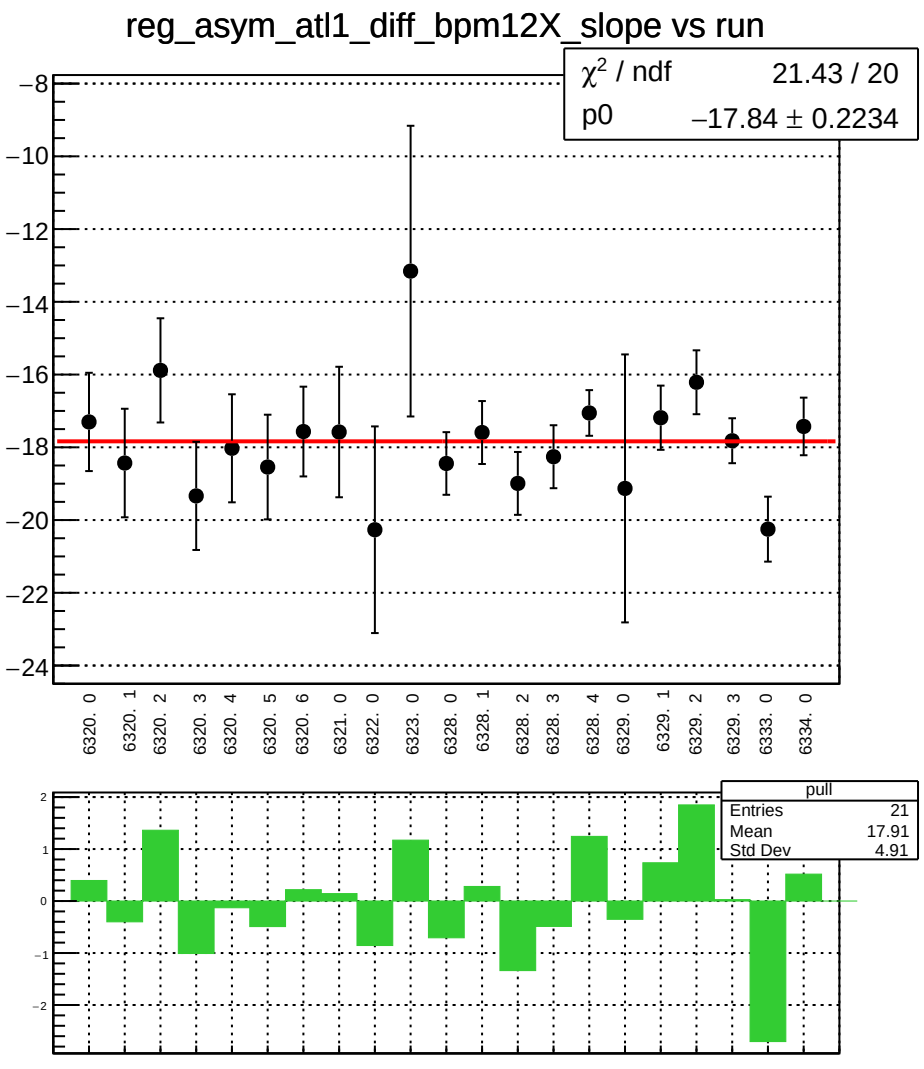

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 27.82 / 20
p0 20.38 ± 3.497
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −119.5
Std Dev 126.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

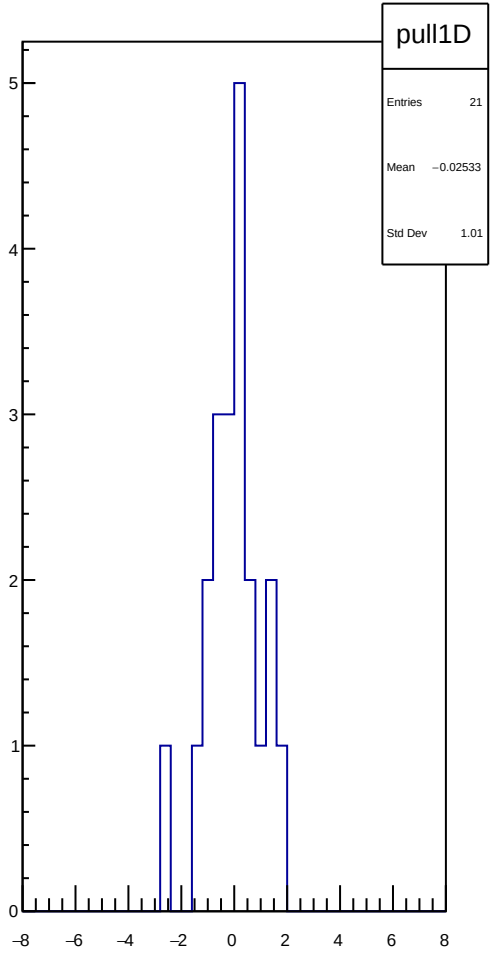

pull1D
Entries 21
Mean 0.01844
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

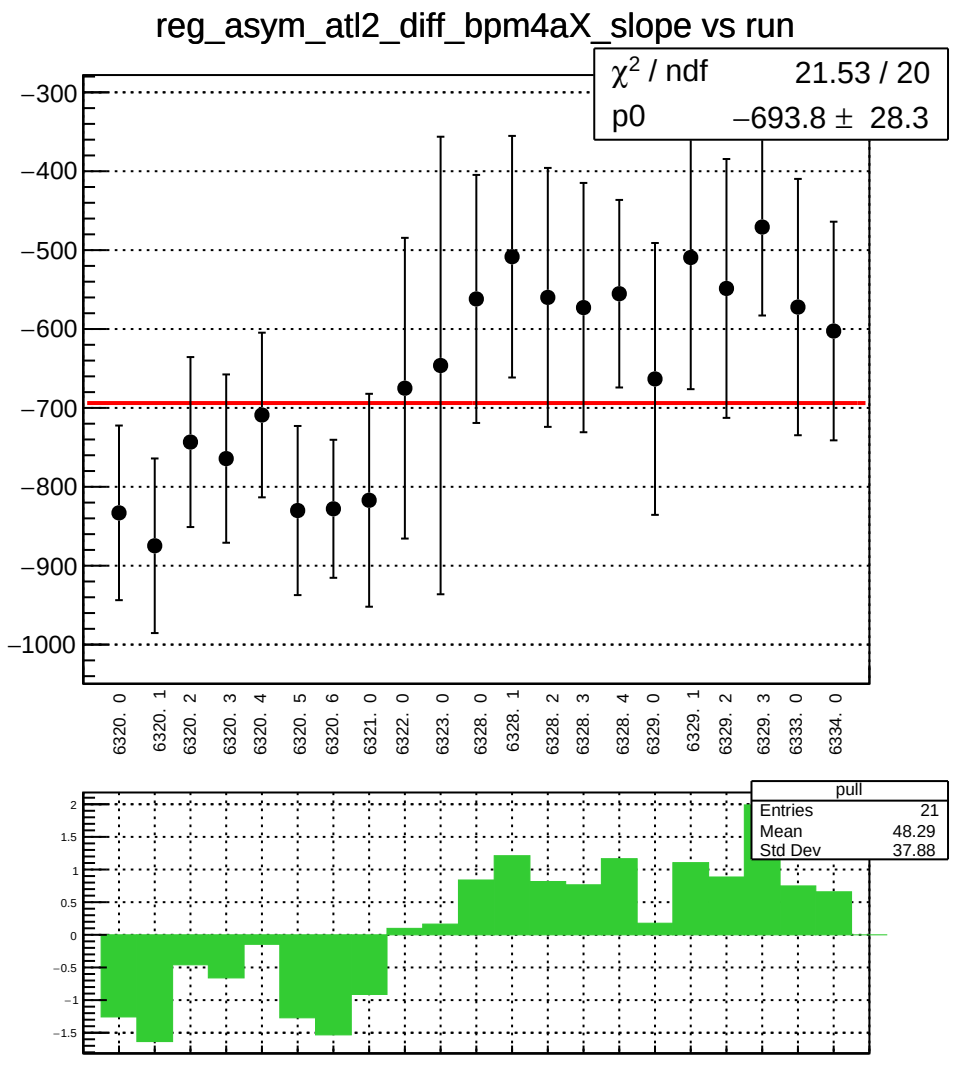

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 34.93 / 20
p0 77.86 ± 8.467
600
500
400
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20
Std Dev 27.89
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.1097
Std Dev 1.285
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

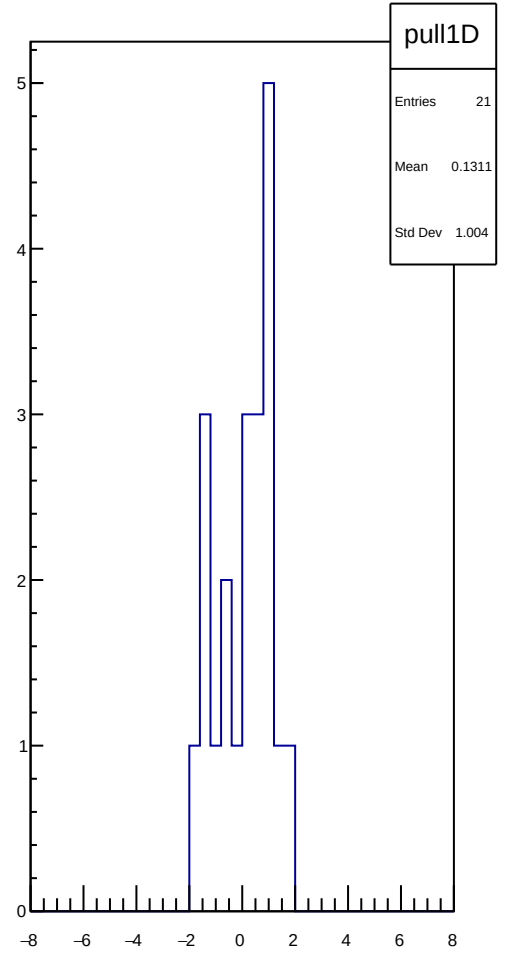

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 51.23 / 20
p0 −35.78 ± 4.032
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −47.96
Std Dev 56
3
2
1
0
−1
−2
−3

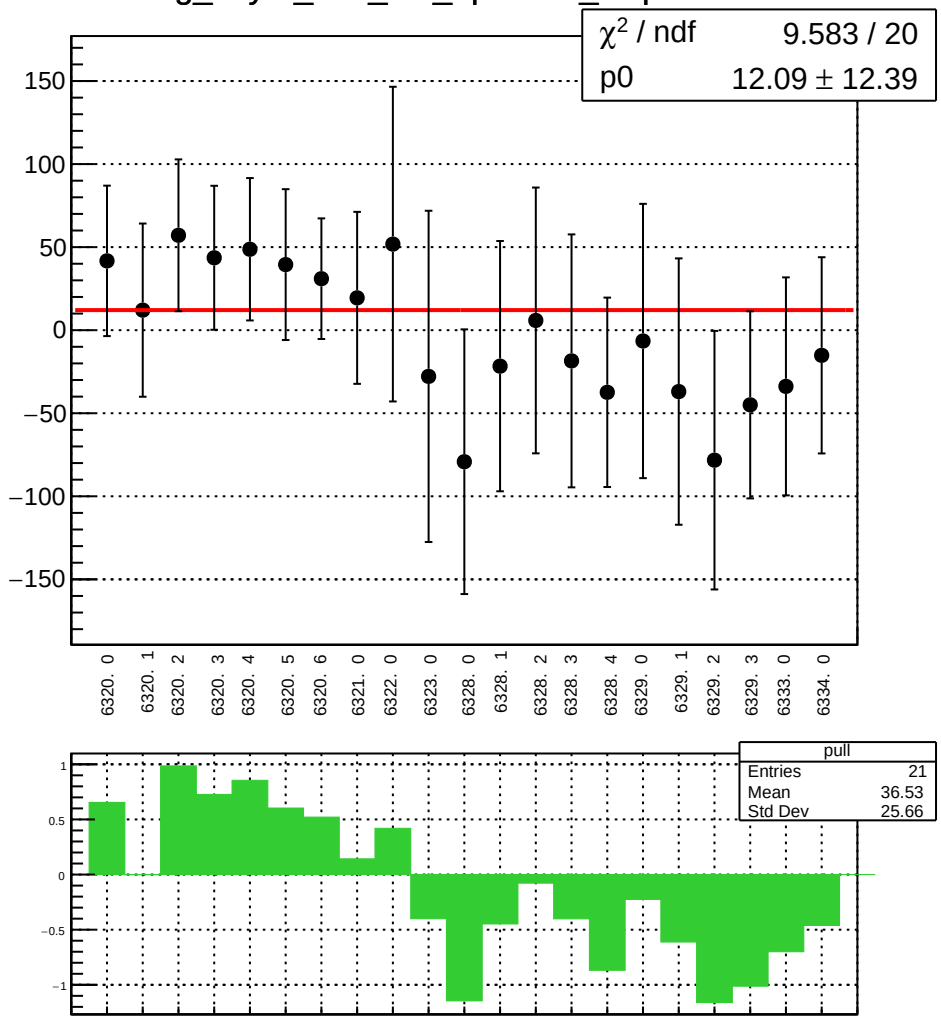

pull1D
Entries 21
Mean −0.09002
Std Dev 1.559
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

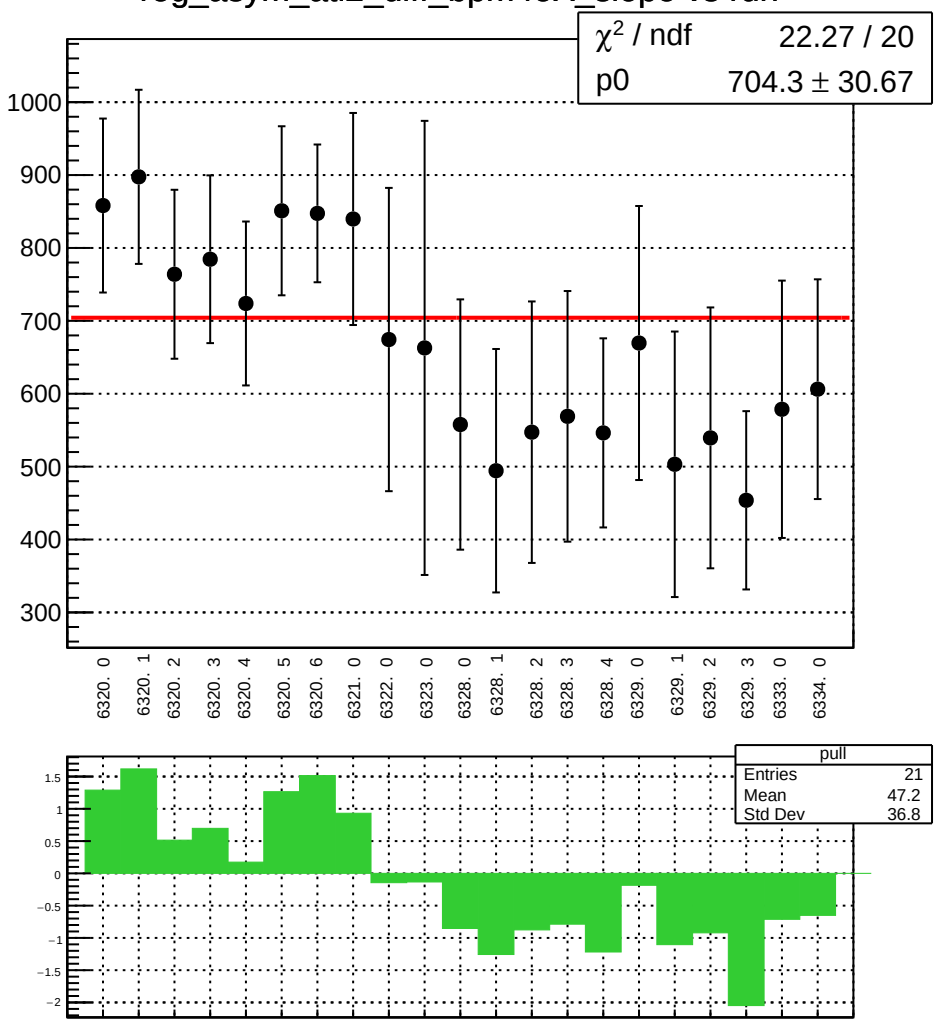

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 21.43 / 20
p0 −17.84 ± 0.2234
−8
−10
−12
−14
−16
−18
−20
−22
−24
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.91
Std Dev 4.91
2
1
0
−1
−2

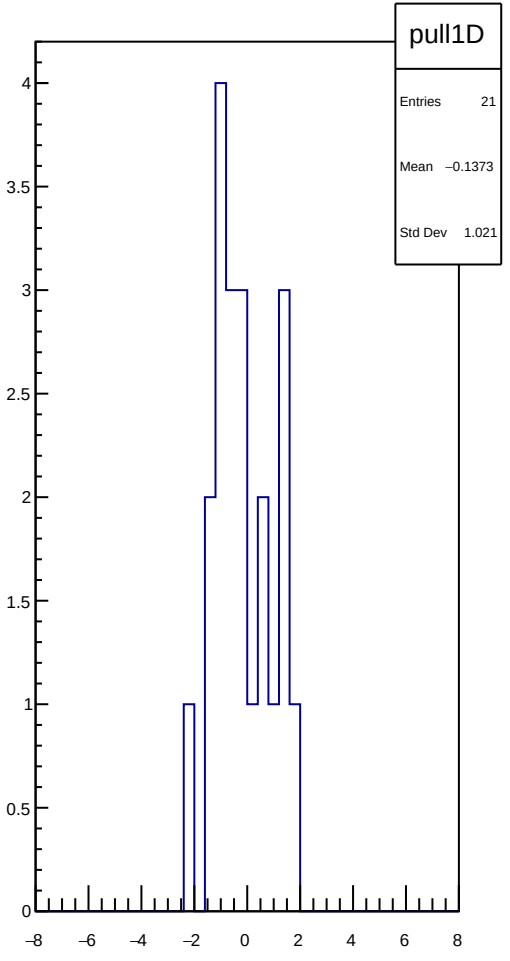

pull1D
Entries 21
Mean −0.02533
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

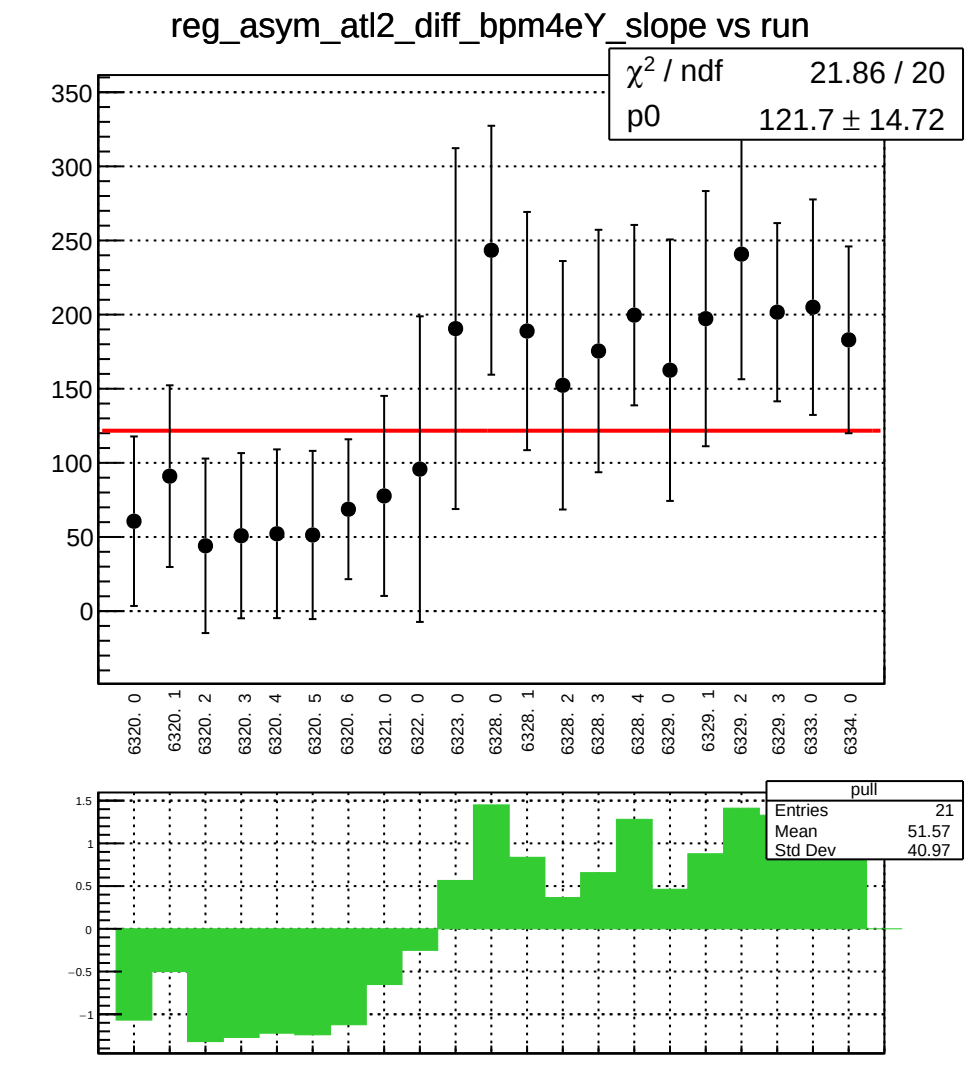

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 21.53 / 20
p0 −693.8 ± 28.3
−300
−400
−500
−600
−700
−800
−900
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 48.29
Std Dev 37.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

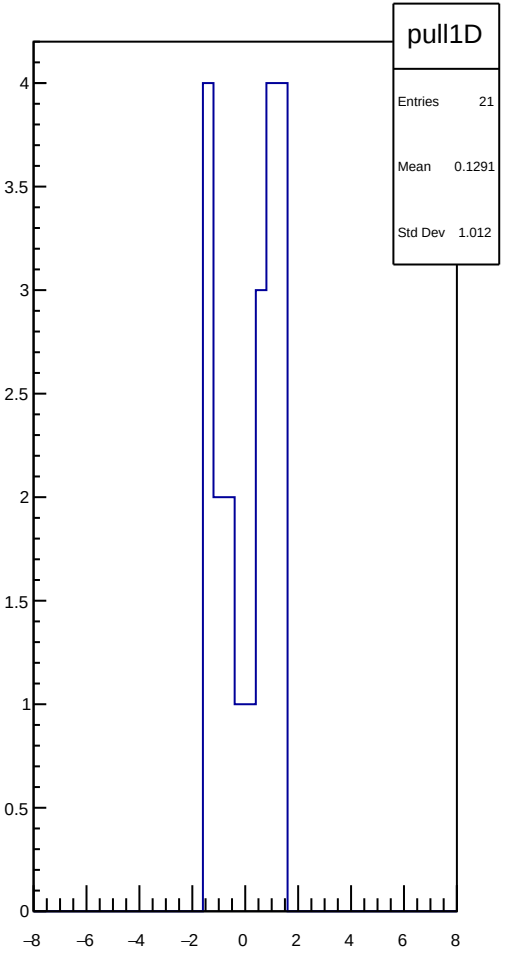

pull1D
Entries 21
Mean 0.1311
Std Dev 1.004
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

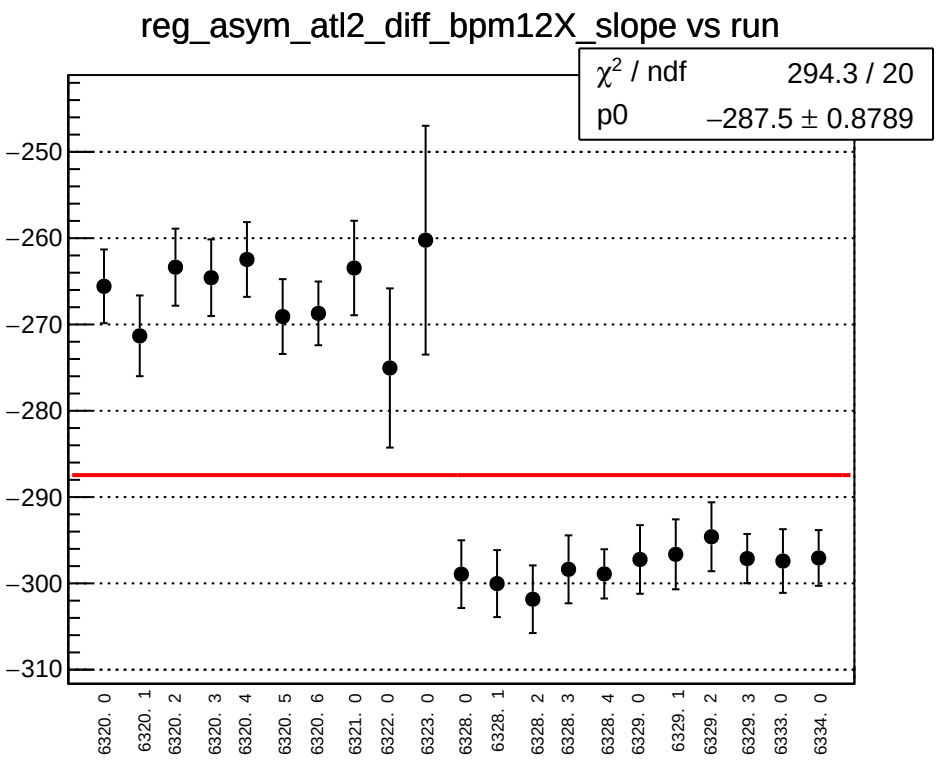

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.583 / 20
p0 12.09 ± 12.39
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 36.53
Std Dev 25.66
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1241
Std Dev 0.664
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

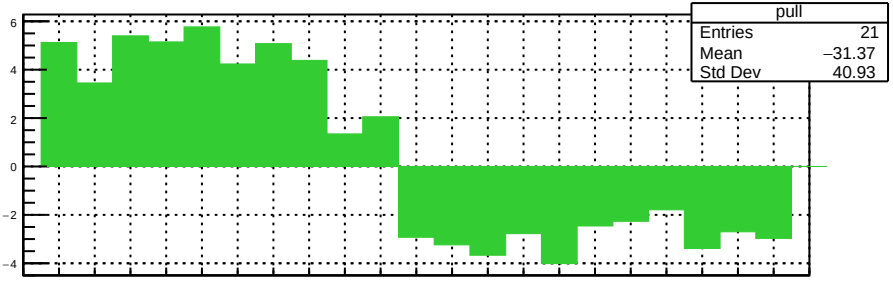

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 22.27 / 20
p0 704.3 ± 30.67
1000
900
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 47.2
Std Dev 36.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

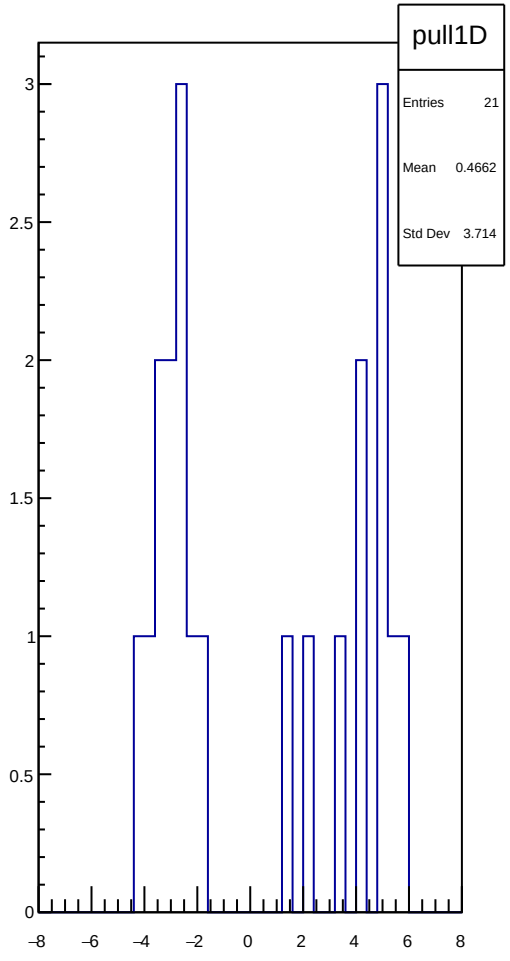

pull1D
Entries 21
Mean −0.1373
Std Dev 1.021
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

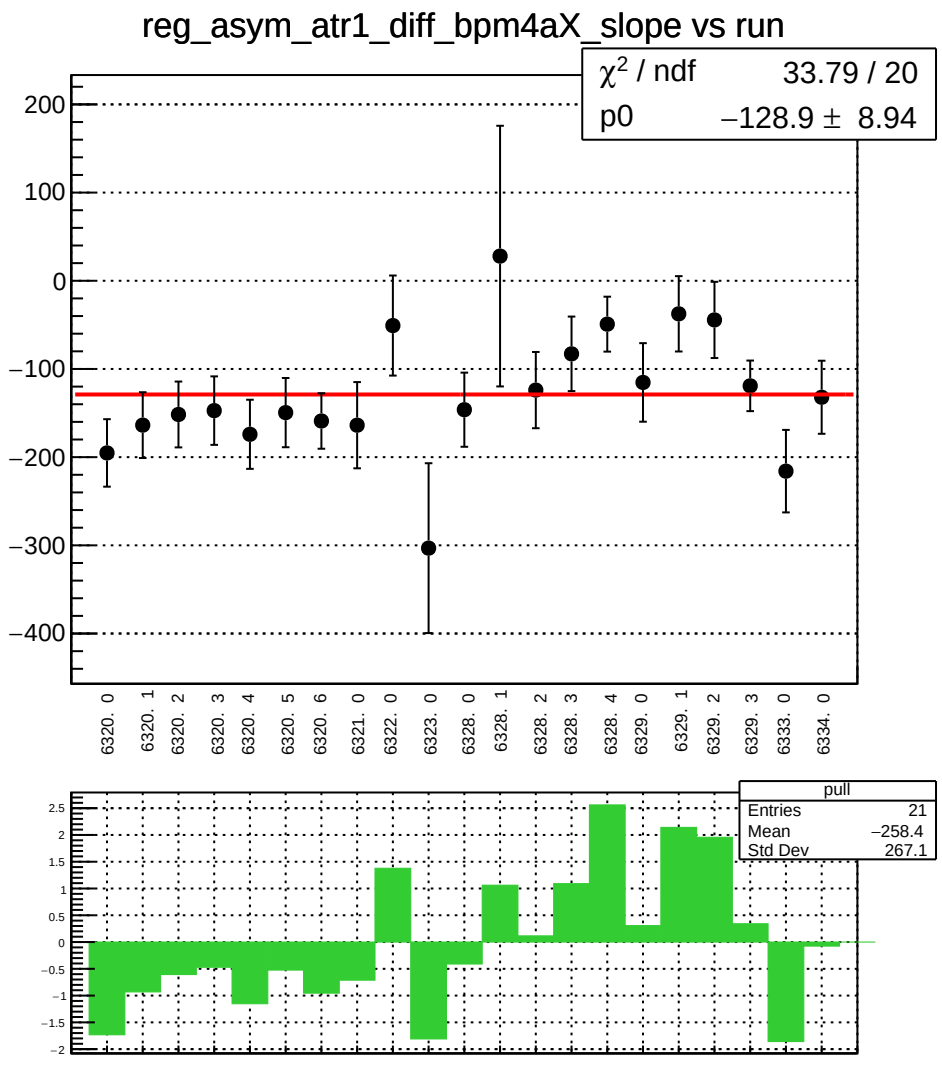

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 21.86 / 20
p0 121.7 ± 14.72
350
300
250
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 51.57
Std Dev 40.97
1.5
1
0.5
0
−0.5
−1

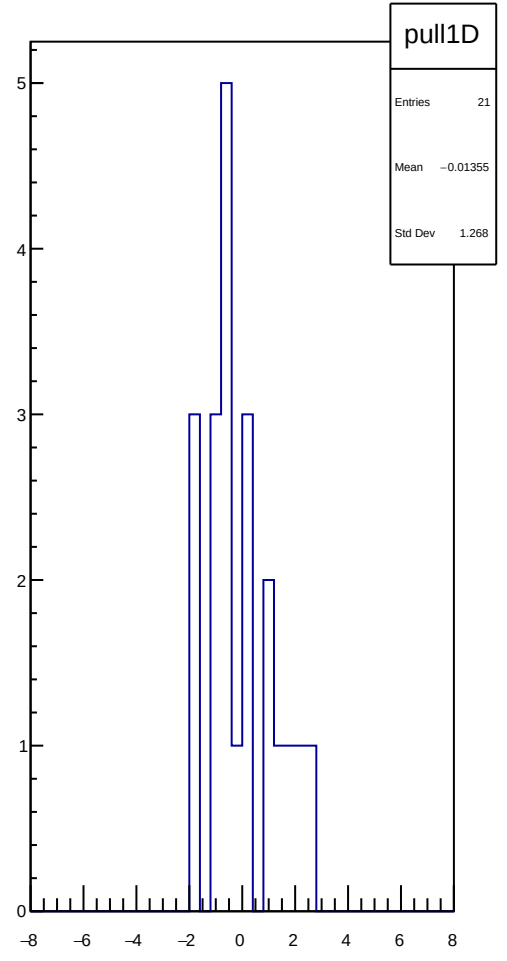

pull1D
Entries 21
Mean 0.1291
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

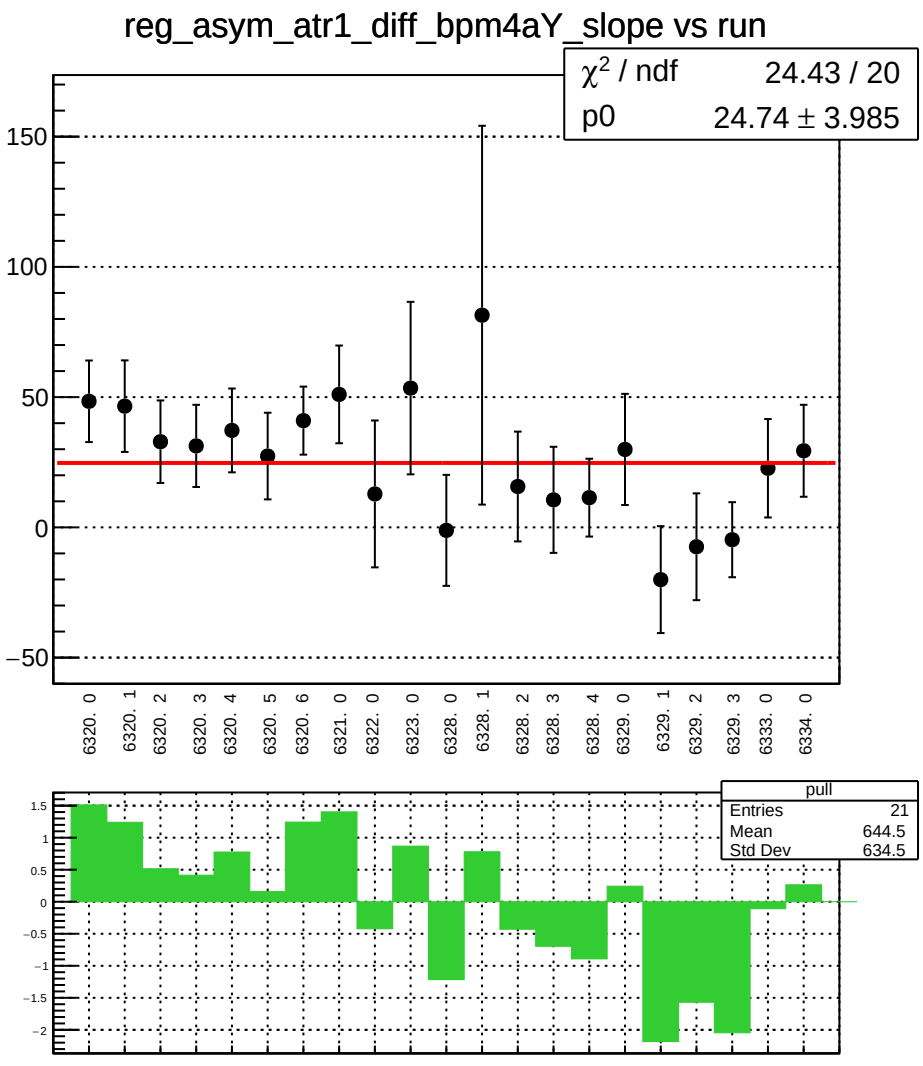

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 294.3 / 20
p0 −287.5 ± 0.8789
−250
−260
−270
−280
−290
−300
−310
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

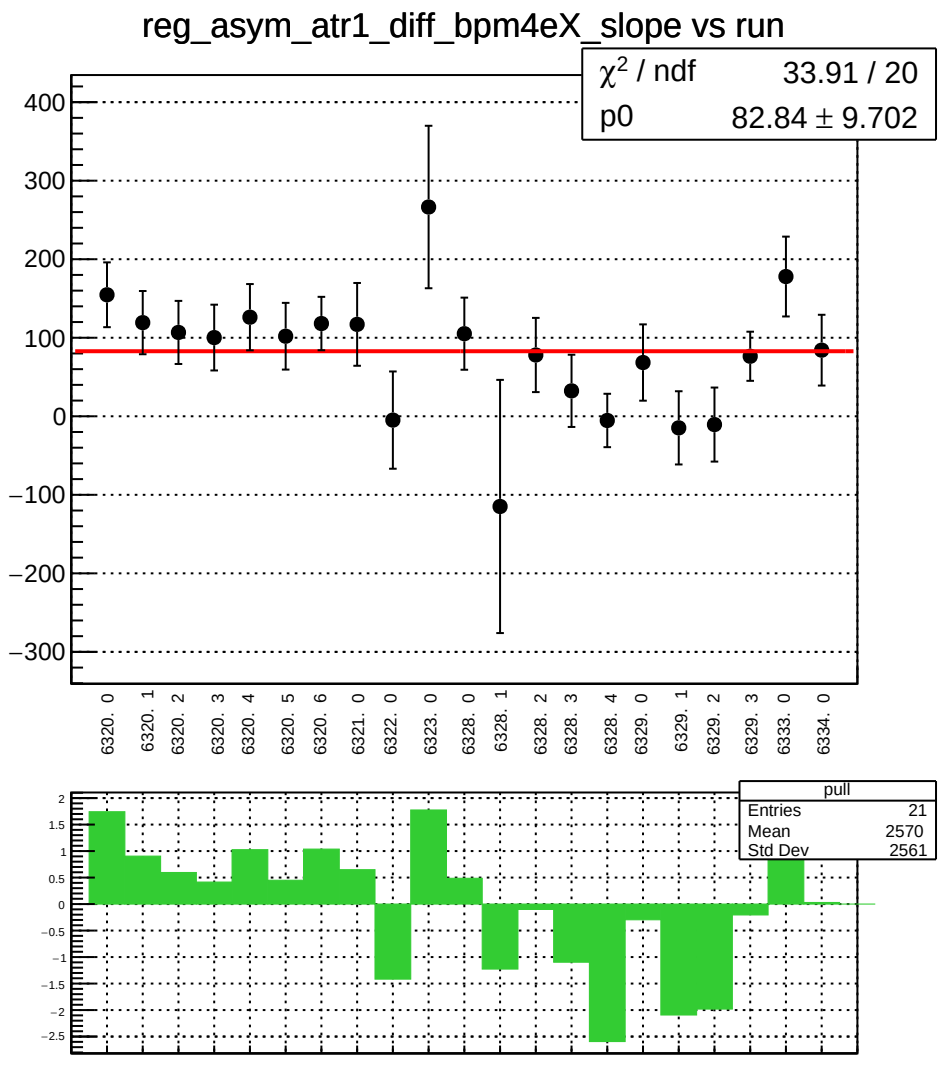

pull
Entries 21
Mean −31.37
Std Dev 40.93
6
4
2
0
−2
−4

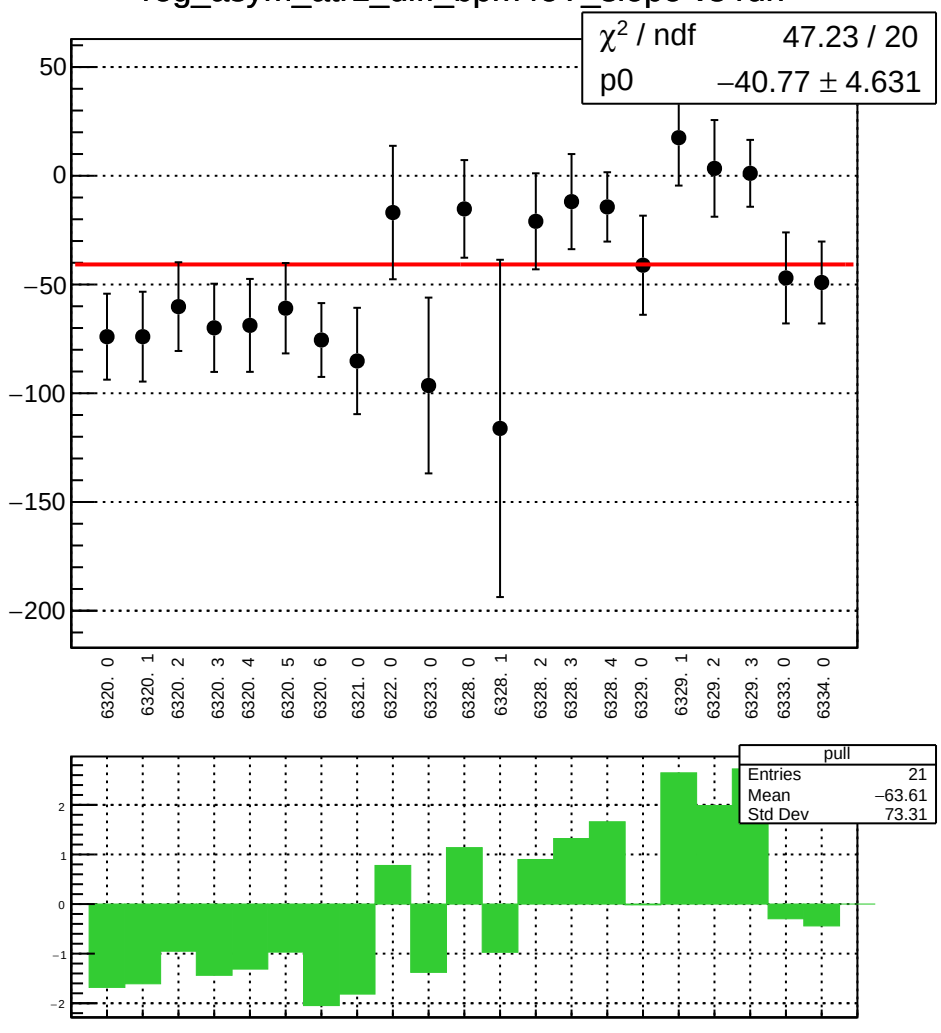

pull1D
Entries 21
Mean 0.4662
Std Dev 3.714
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

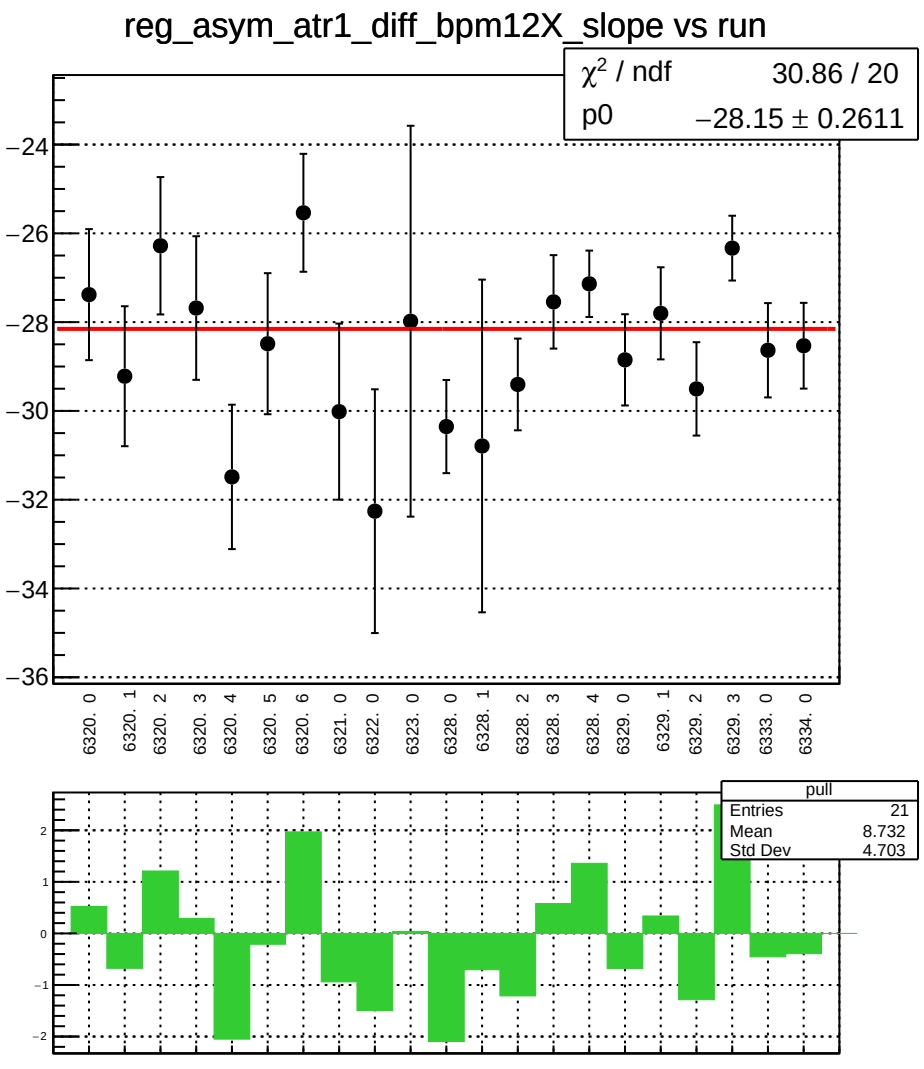

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 33.79 / 20
p0 −128.9 ± 8.94
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −258.4
Std Dev 267.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

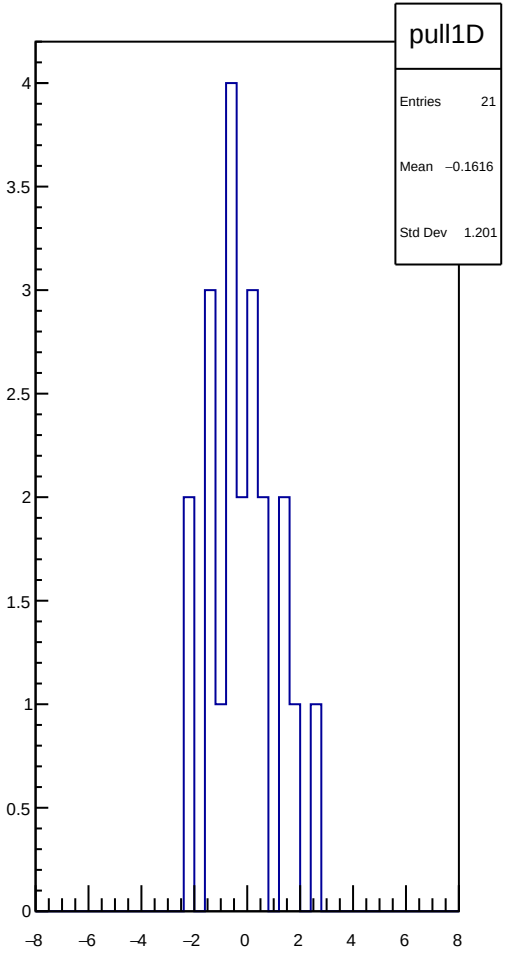

pull1D
Entries 21
Mean −0.01355
Std Dev 1.268
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

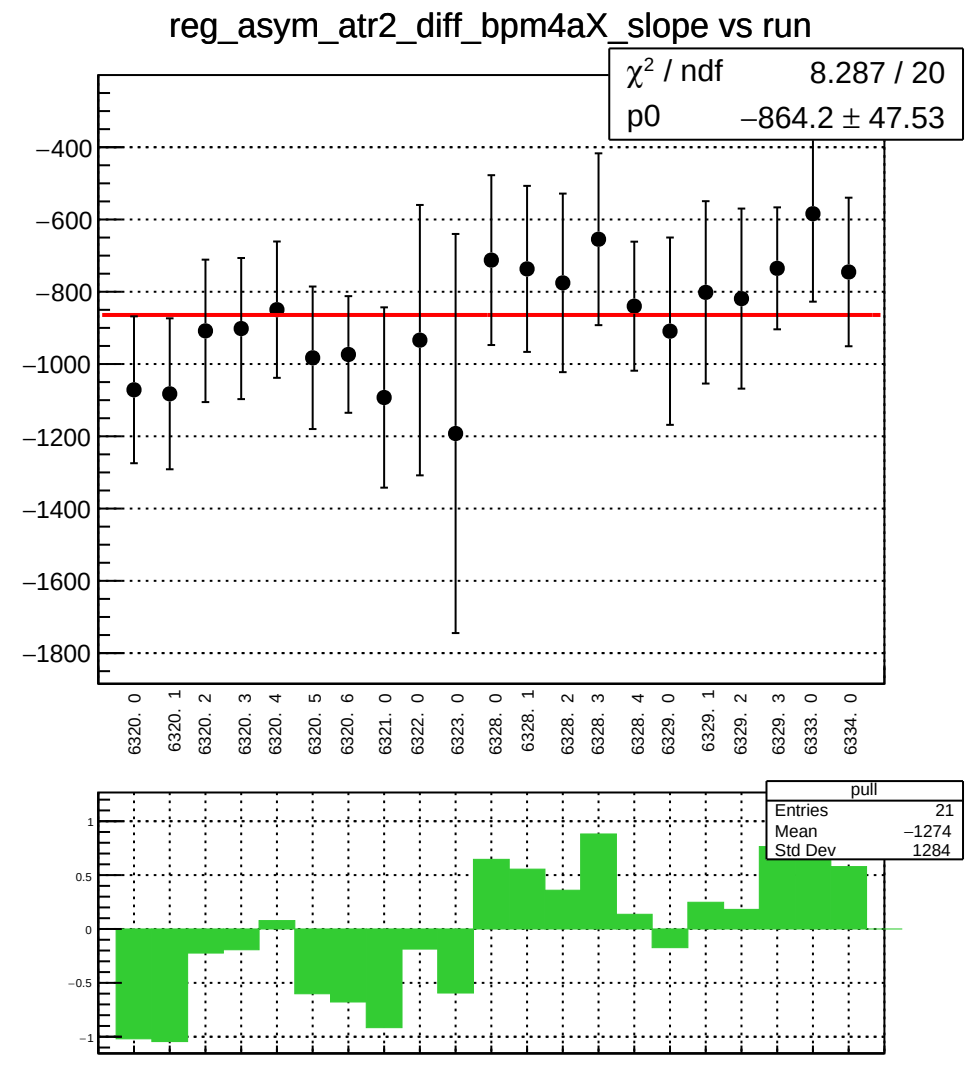

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 24.43 / 20
p0 24.74 ± 3.985
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 644.5
Std Dev 634.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.006854
Std Dev 1.079
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

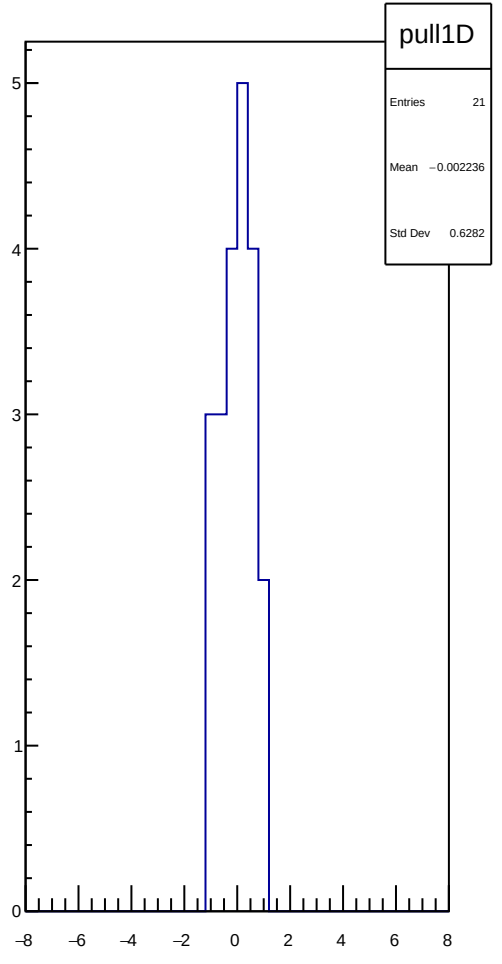

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 33.91 / 20
p0 82.84 ± 9.702
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2570
Std Dev 2561
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.00138
Std Dev 1.271
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

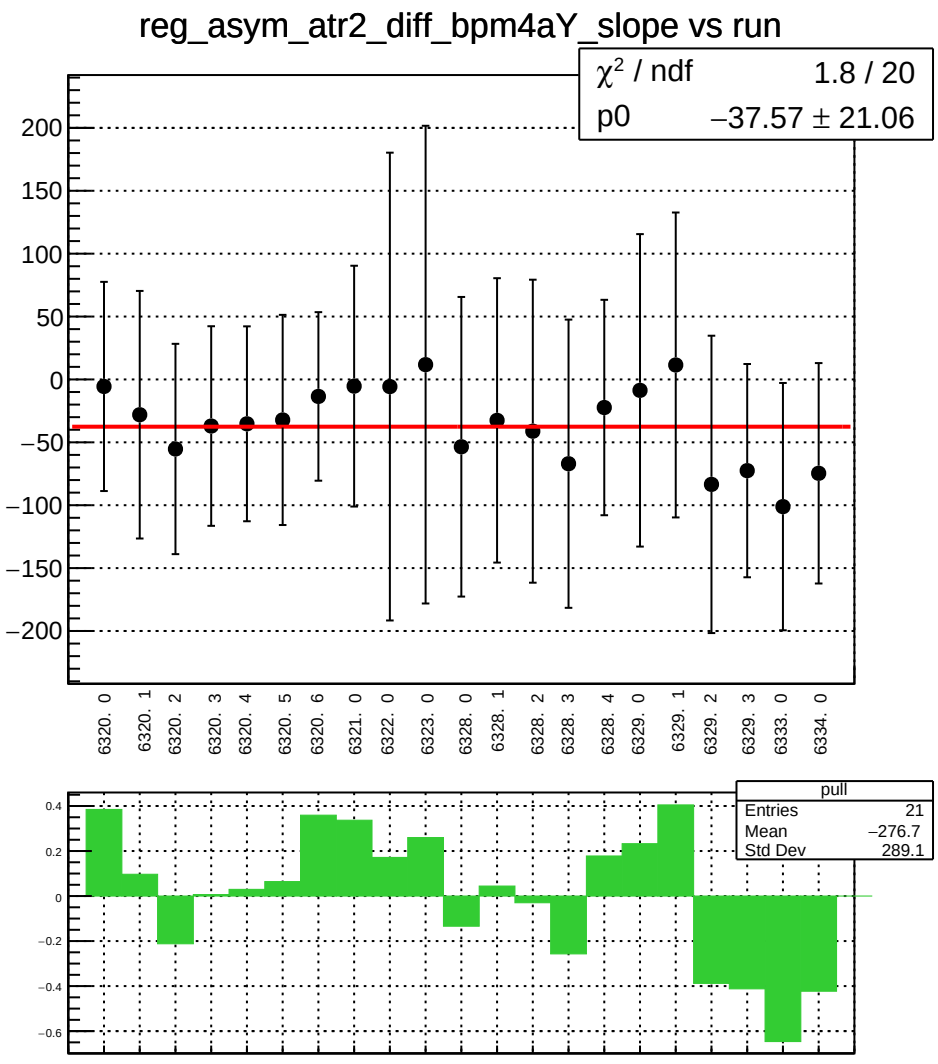

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 47.23 / 20
p0 −40.77 ± 4.631
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −63.61
Std Dev 73.31
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.08415
Std Dev 1.497
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

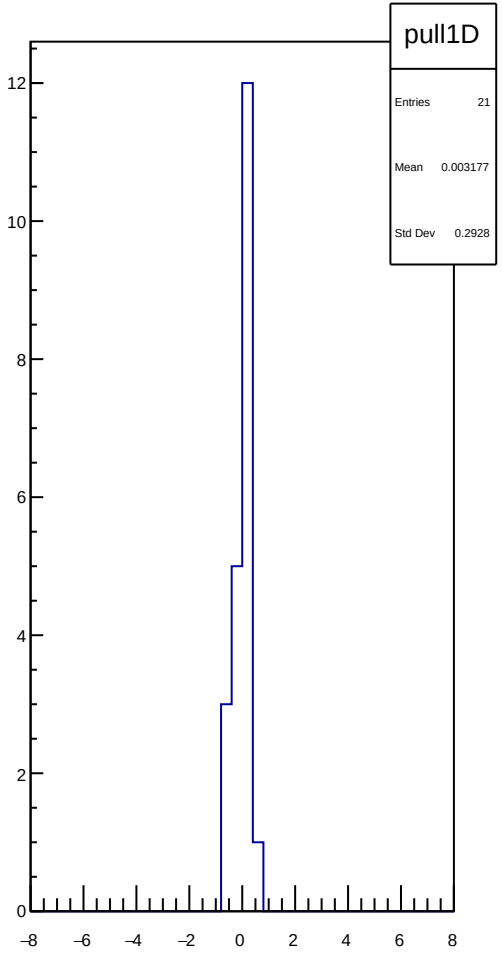

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 30.86 / 20
p0 −28.15 ± 0.2611
−24
−26
−28
−30
−32
−34
−36
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 8.732
Std Dev 4.703
2
1
0
−1
−2

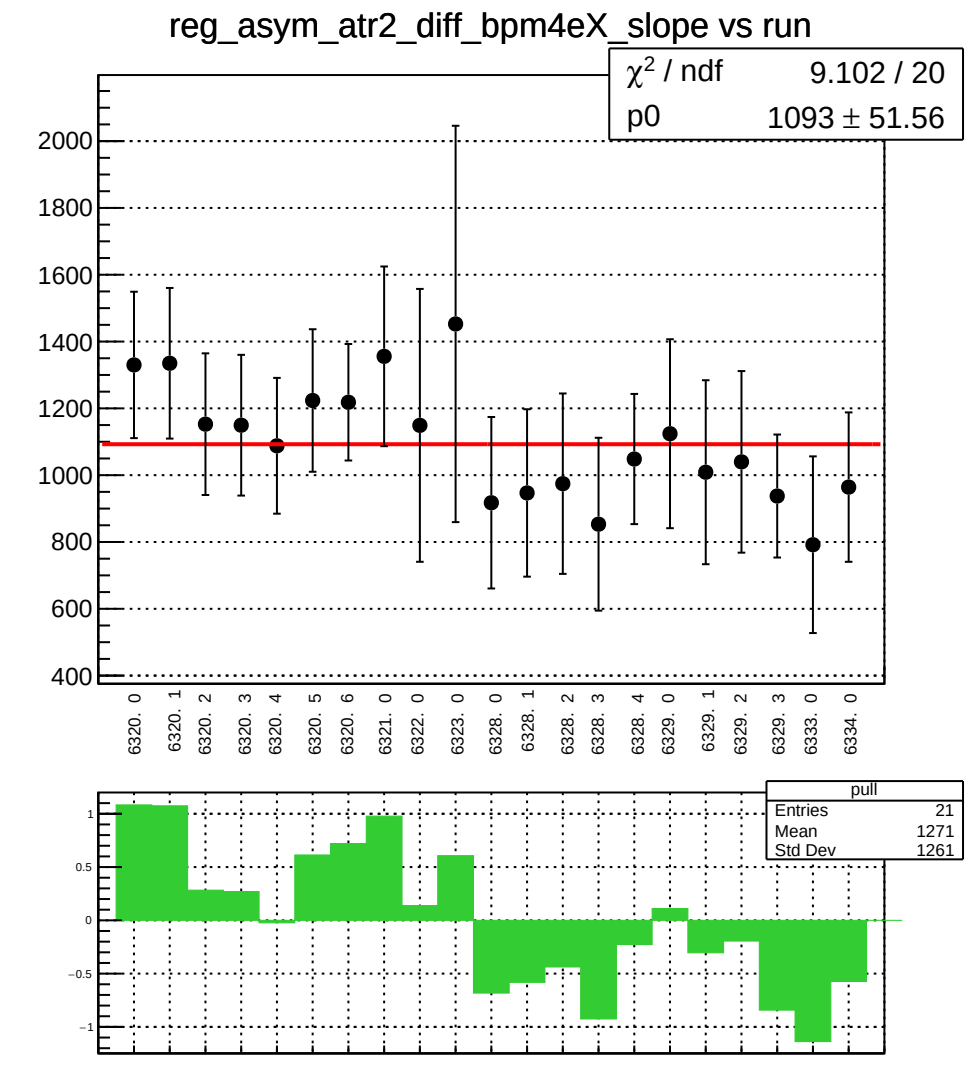

pull1D
Entries 21
Mean −0.1616
Std Dev 1.201
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

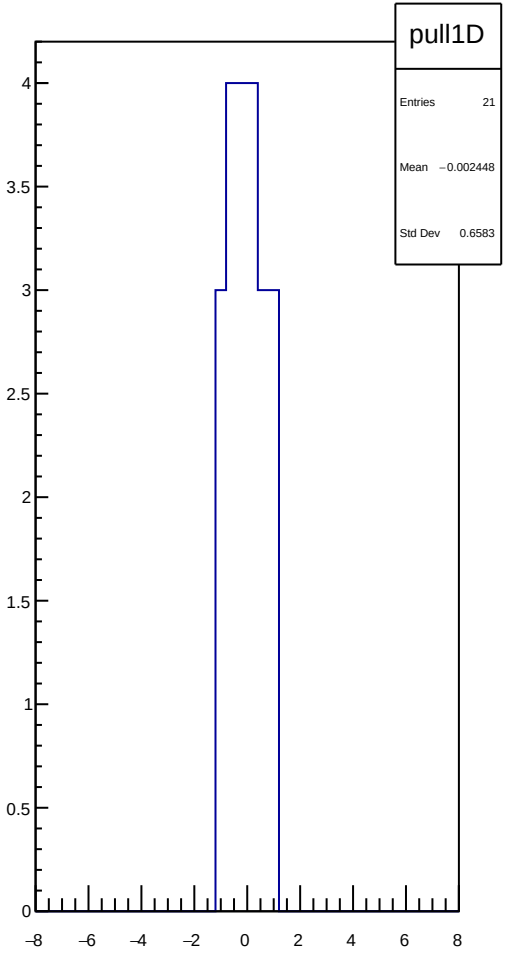

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 8.287 / 20
p0 −864.2 ± 47.53
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1274
Std Dev 1284
1
0.5
0
−0.5
−1

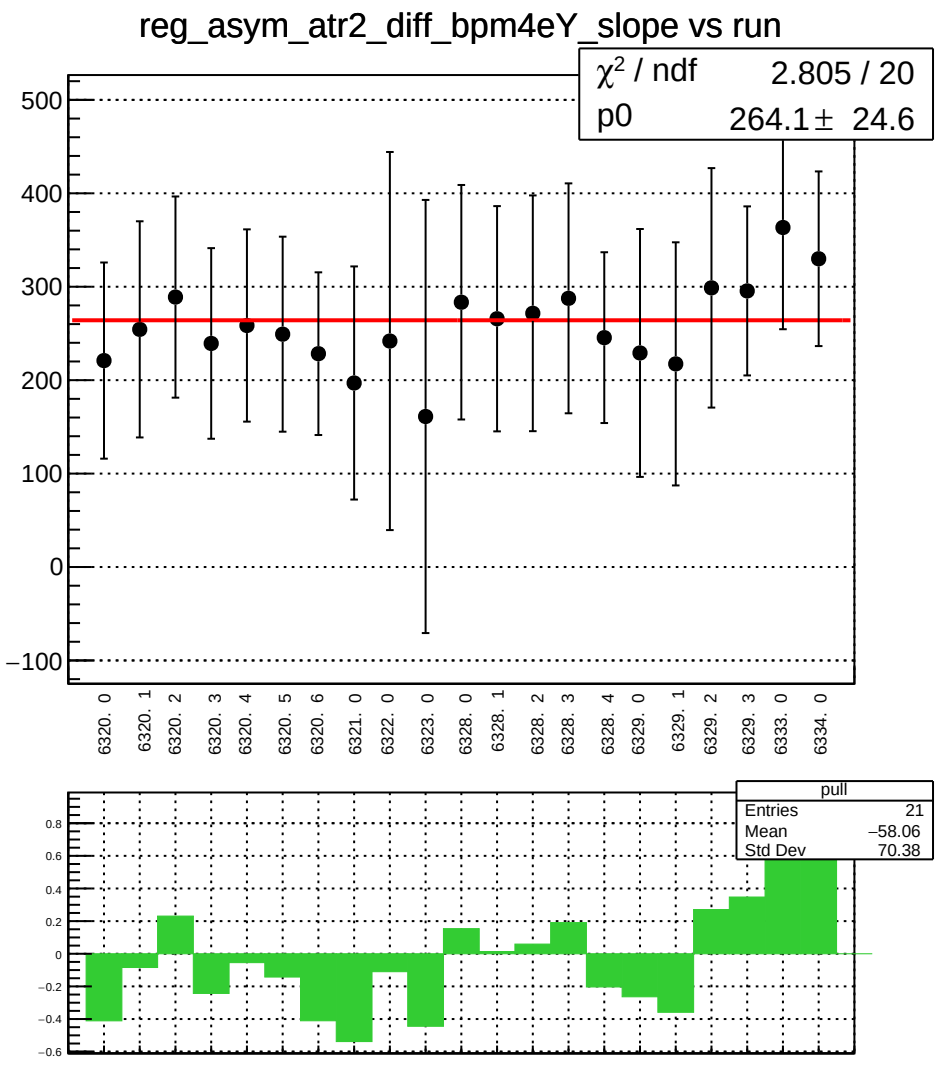

pull1D
Entries 21
Mean −0.002236
Std Dev 0.6282
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

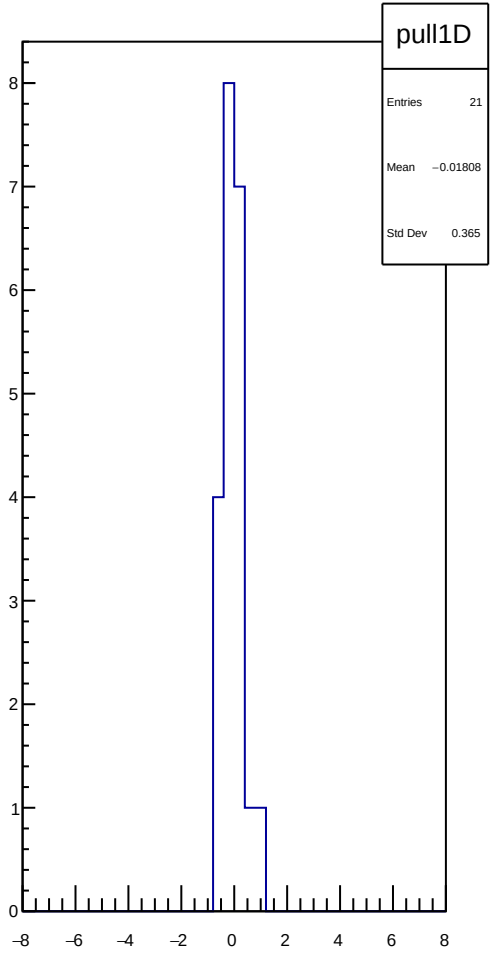

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 1.8 / 20
p0 −37.57 ± 21.06
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −276.7
Std Dev 289.1
0.4
0.2
0
−0.2
−0.4
−0.6

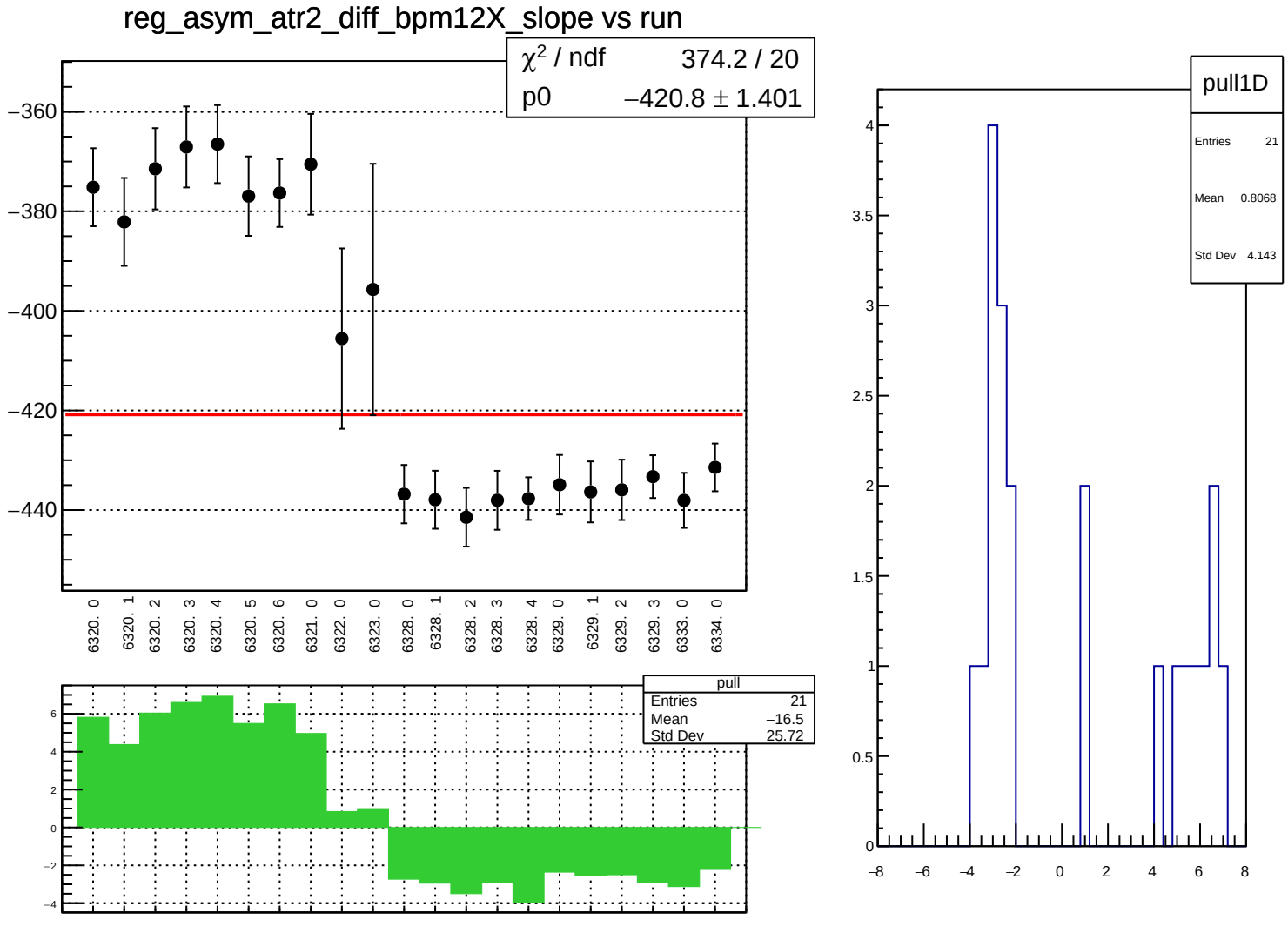

pull1D
Entries 21
Mean 0.003177
Std Dev 0.2928
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

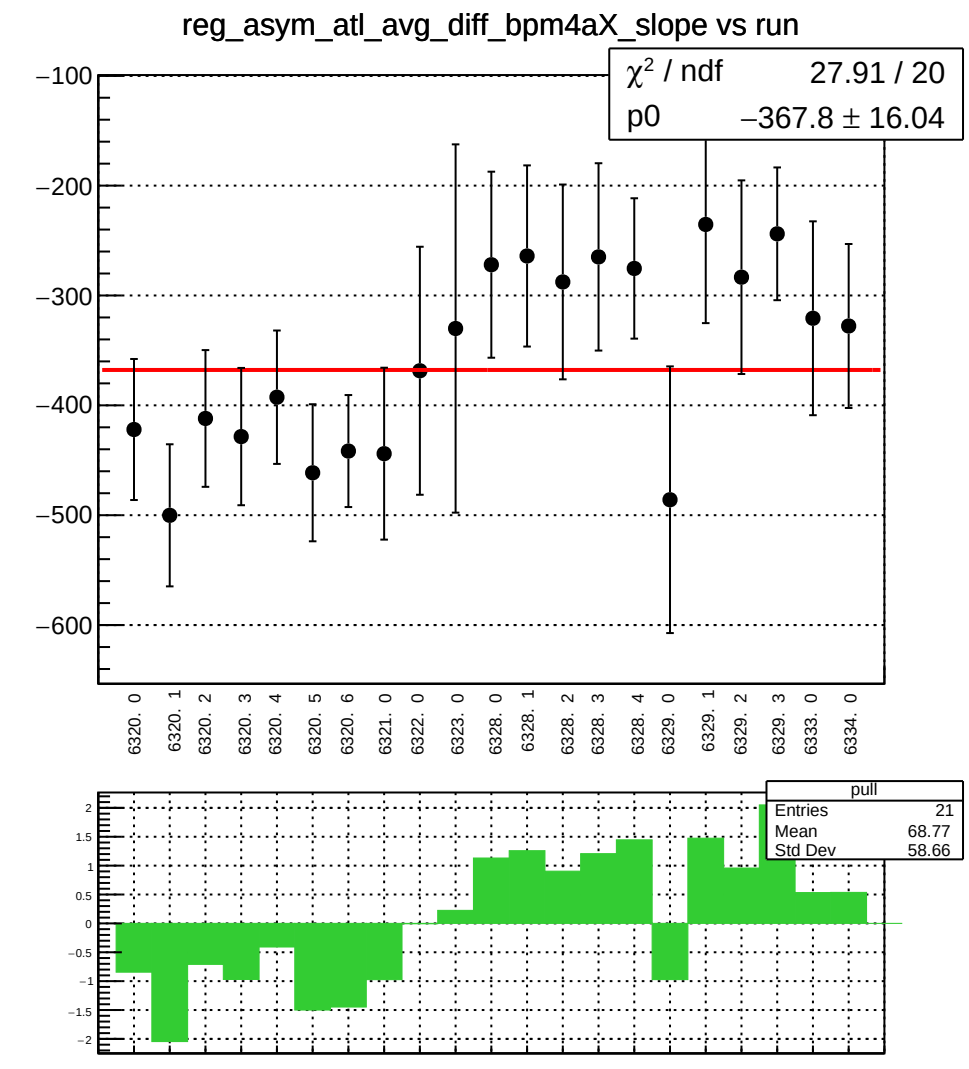

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 9.102 / 20
p0 1093 ± 51.56
2000
1800
1600
1400
1200
1000
800
600
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1271
Std Dev 1261
1
0.5
0
−0.5
−1

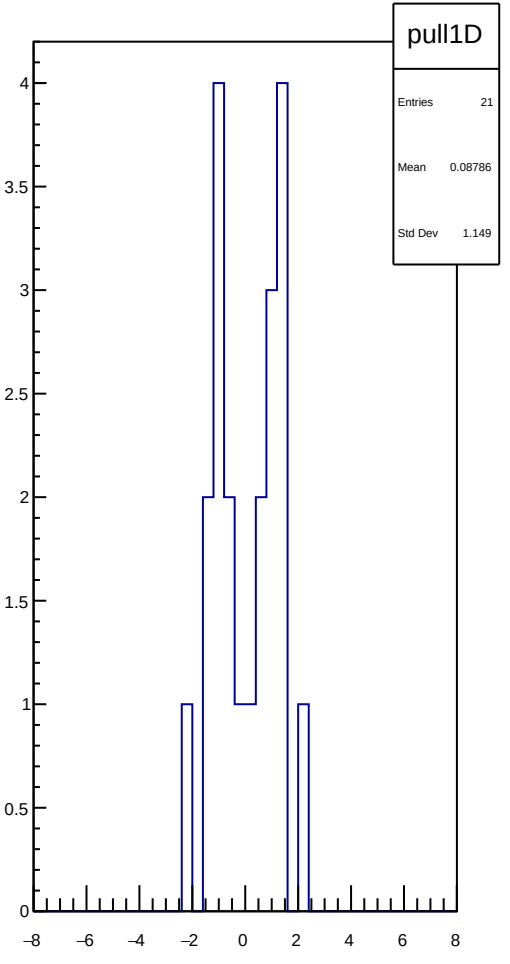

pull1D
Entries 21
Mean −0.002448
Std Dev 0.6583
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

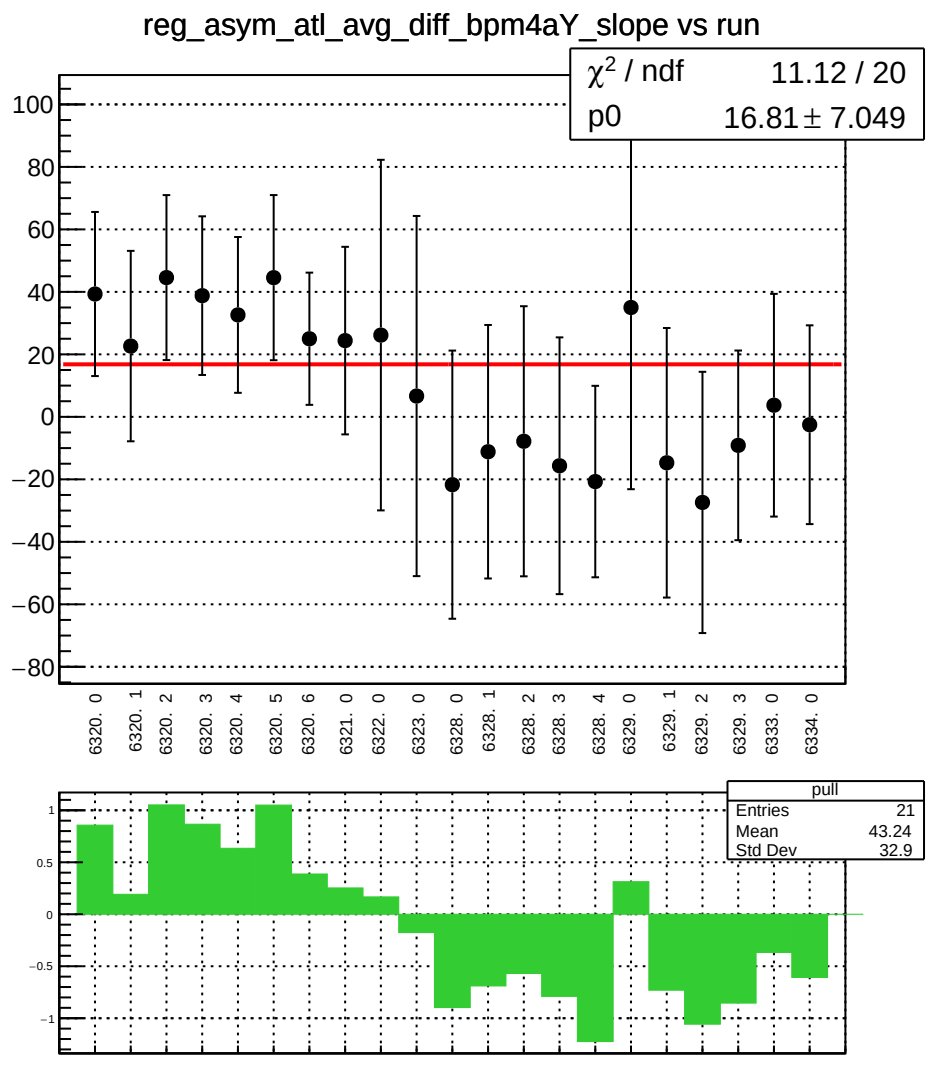

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.805 / 20
p0 264.1 ± 24.6
500
400
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −58.06
Std Dev 70.38
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

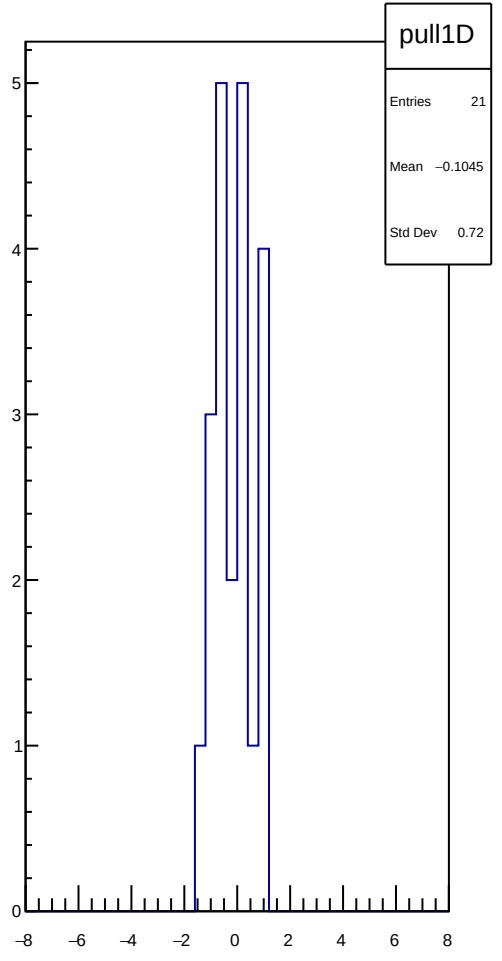

pull1D
Entries 21
Mean −0.01808
Std Dev 0.365
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

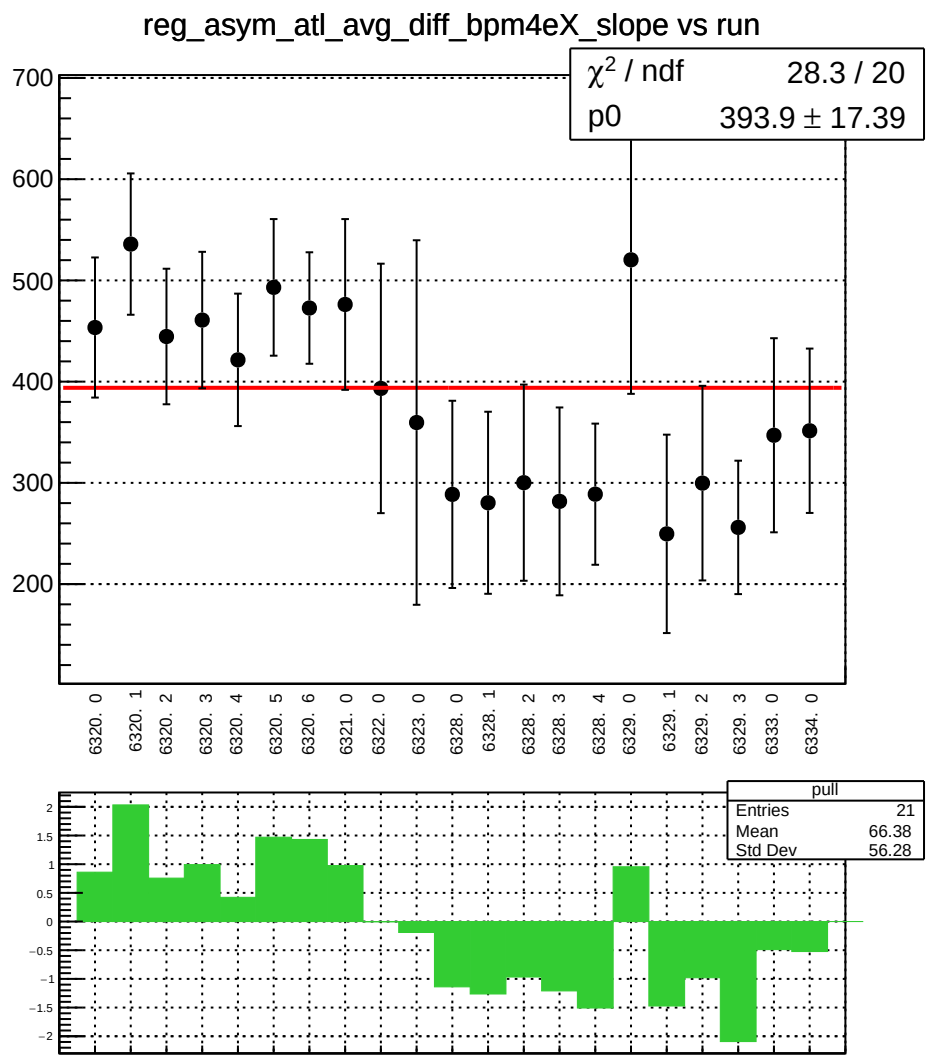

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 374.2 / 20
p0 −420.8 ± 1.401
−360
−380
−400
−420
−440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16.5
Std Dev 25.72
6
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.8068
Std Dev 4.143
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

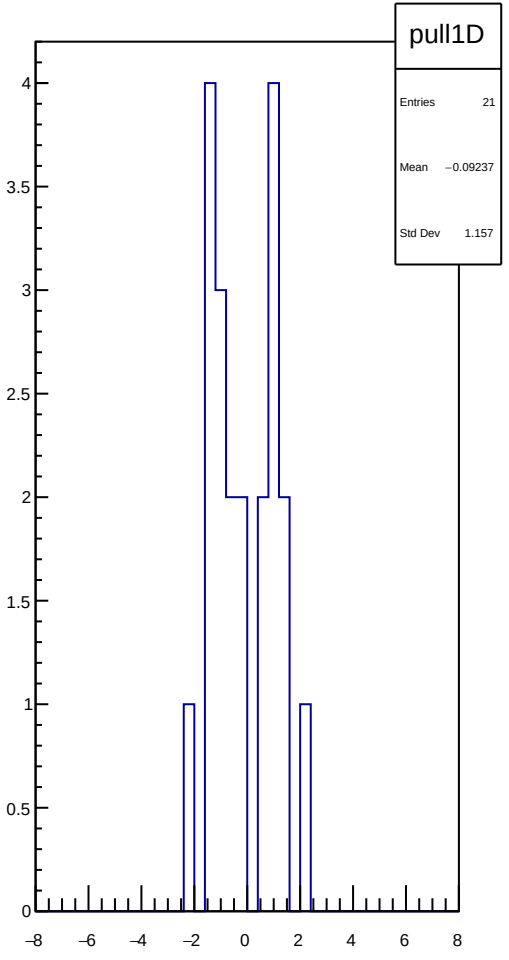

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.91 / 20
p0 −367.8 ± 16.04
−100
−200
−300
−400
−500
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 68.77
Std Dev 58.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

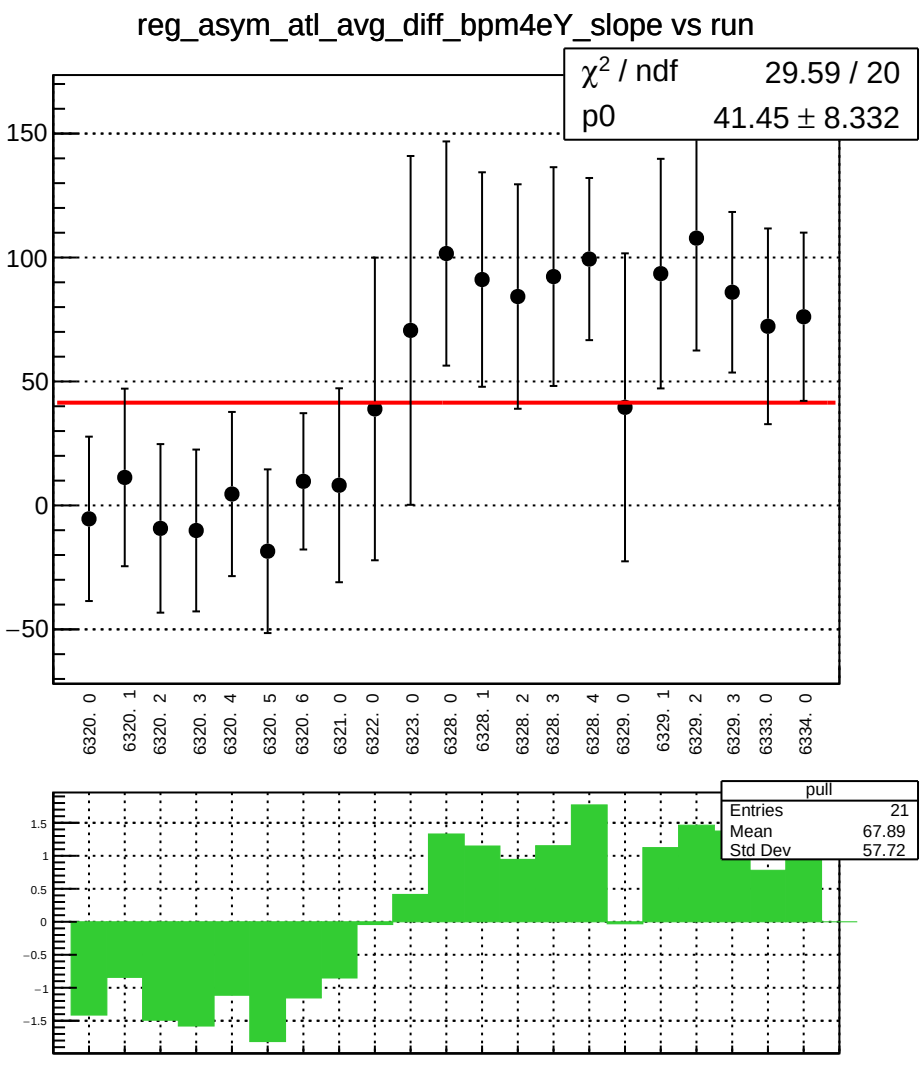

pull1D
Entries 21
Mean 0.08786
Std Dev 1.149
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

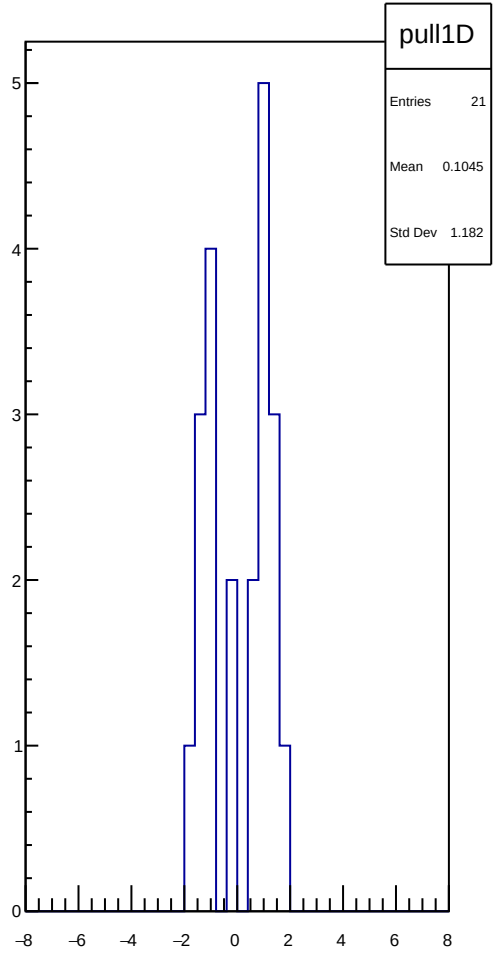

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.12 / 20
p0 16.81 ± 7.049
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 43.24
Std Dev 32.9
1
0.5
0
−0.5
−1

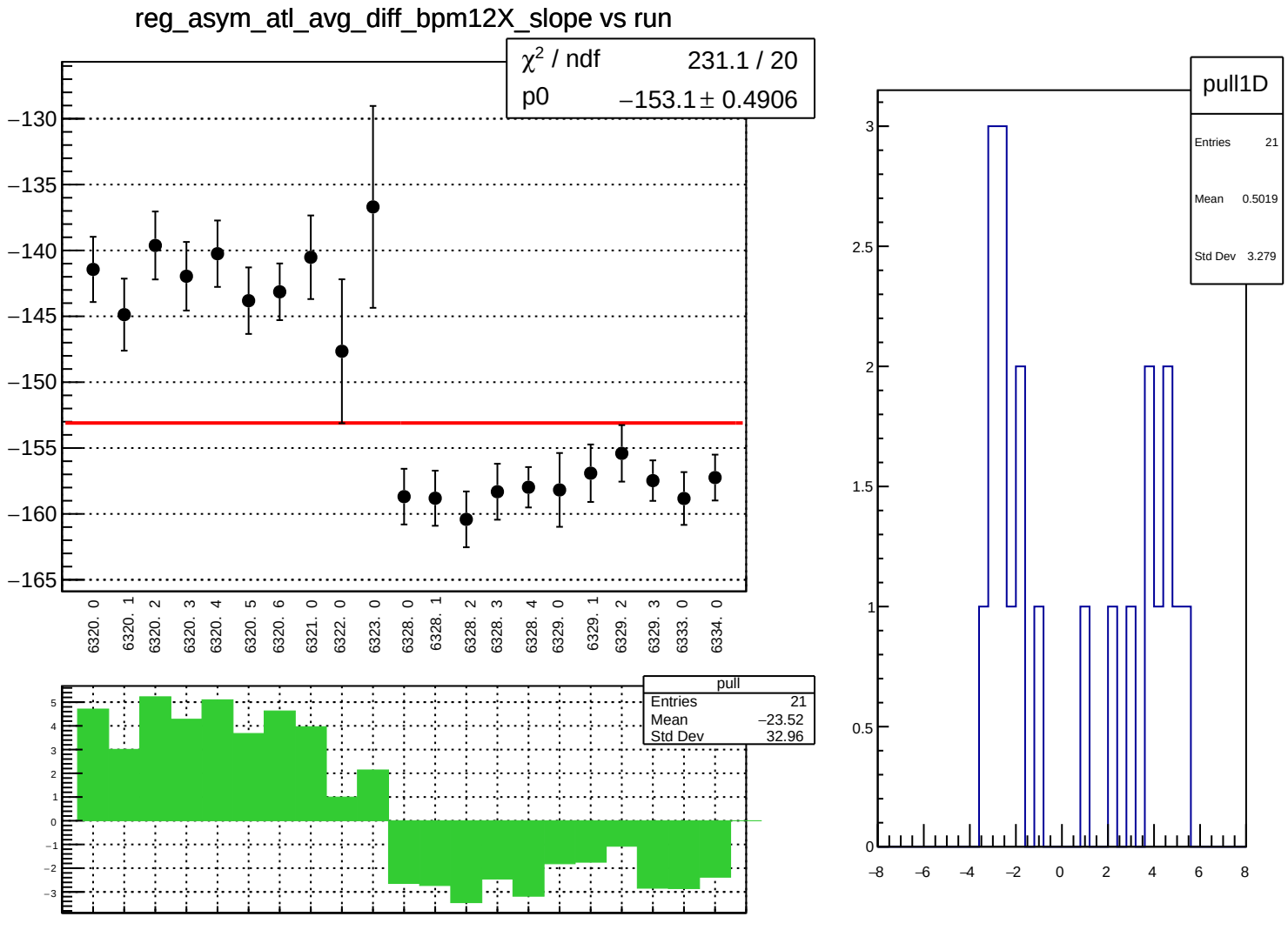

pull1D
Entries 21
Mean −0.1045
Std Dev 0.72
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

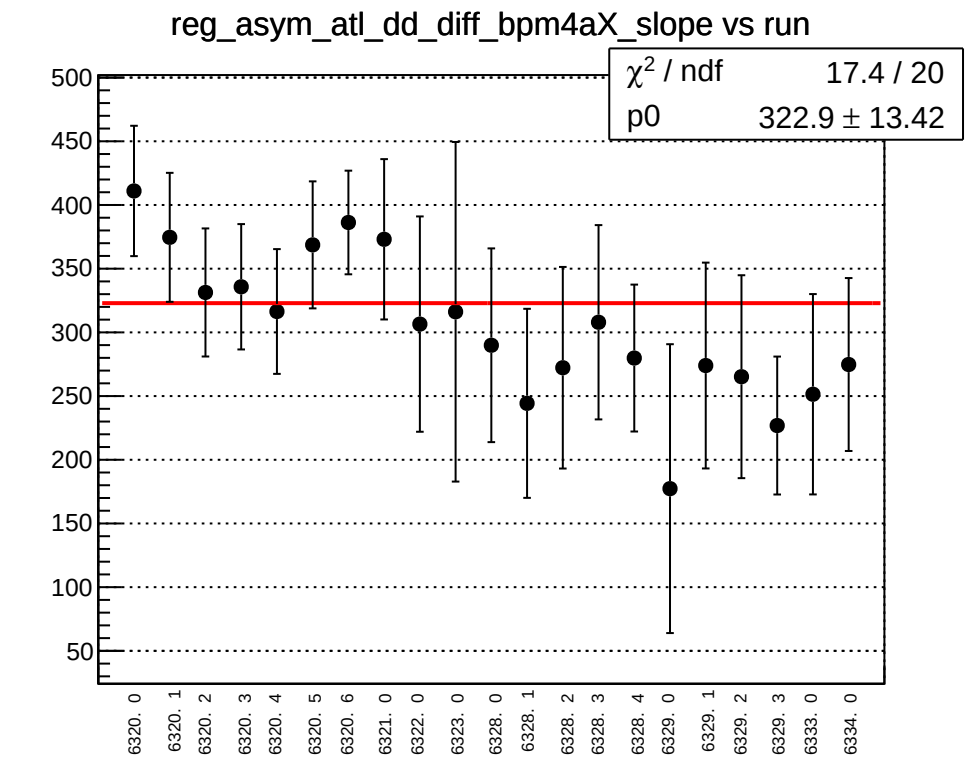

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.3 / 20
p0 393.9 ± 17.39
700
600
500
400
300
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 66.38
Std Dev 56.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

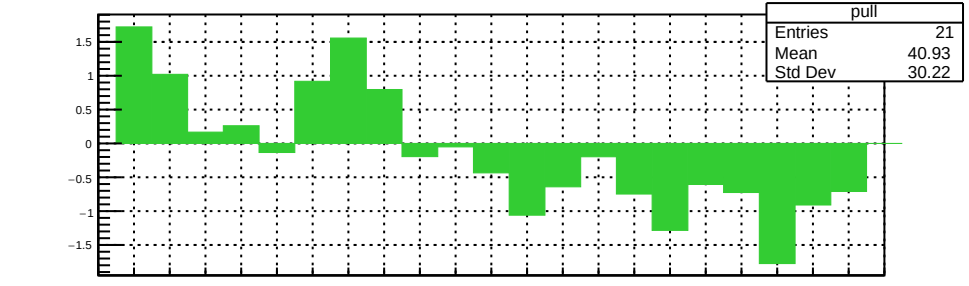

pull1D
Entries 21
Mean −0.09237
Std Dev 1.157
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

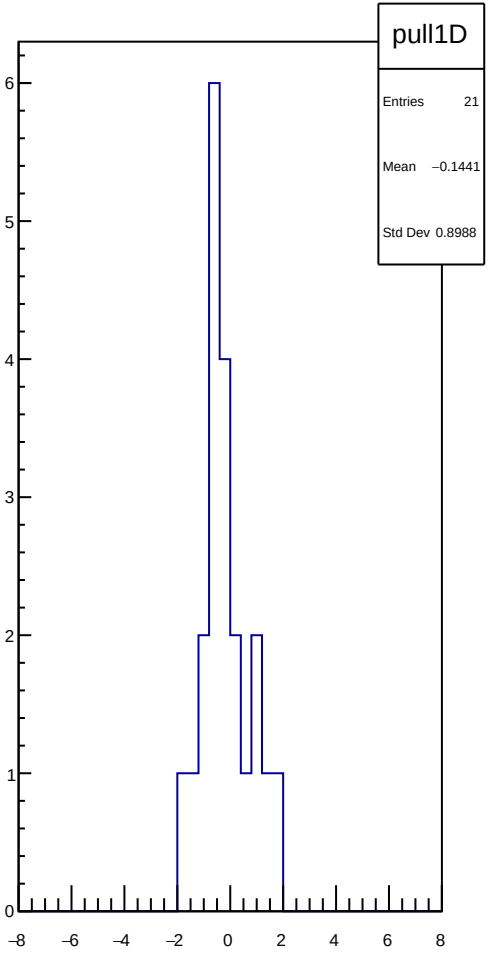

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.59 / 20
p0 41.45 ± 8.332
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 67.89
Std Dev 57.72
1.5
1
0.5
0
−0.5
−1
−1.5

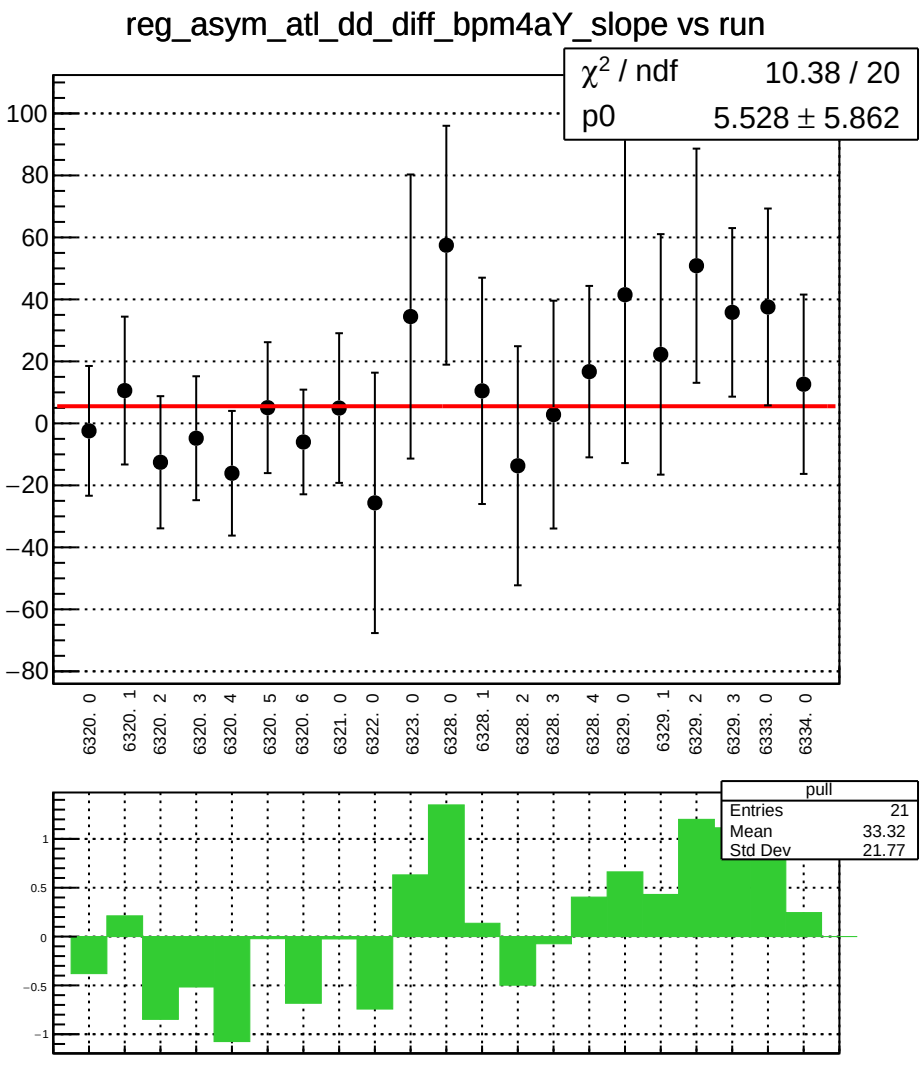

pull1D
Entries 21
Mean 0.1045
Std Dev 1.182
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

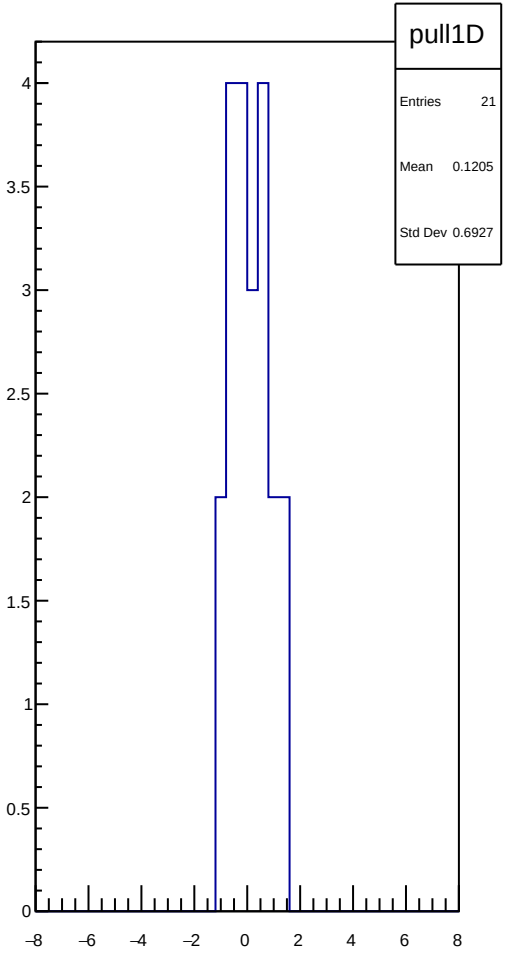

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 231.1 / 20
p0 −153.1 ± 0.4906
−130
−135
−140
−145
−150
−155
−160
−165
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −23.52
Std Dev 32.96
pull1D
Entries 21
Mean 0.5019
Std Dev 3.279

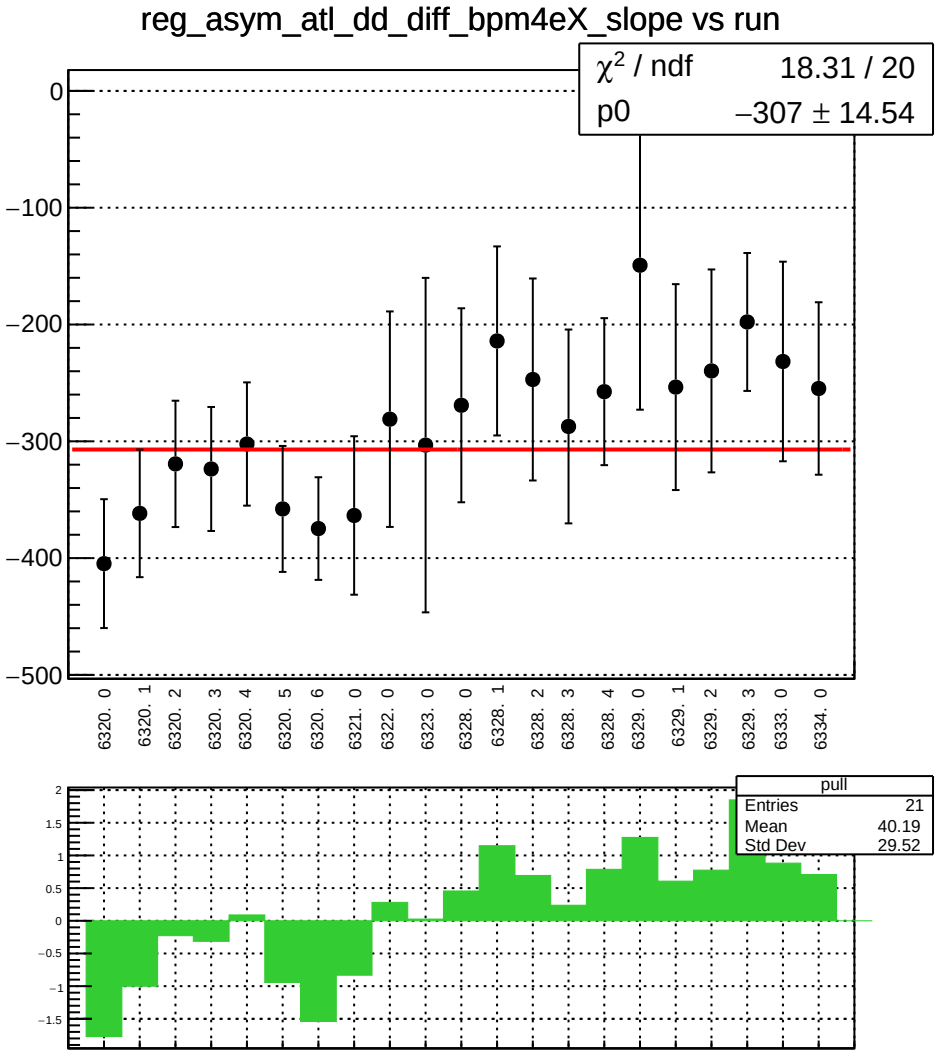

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.4 / 20
p0 322.9 ± 13.42
500
450
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

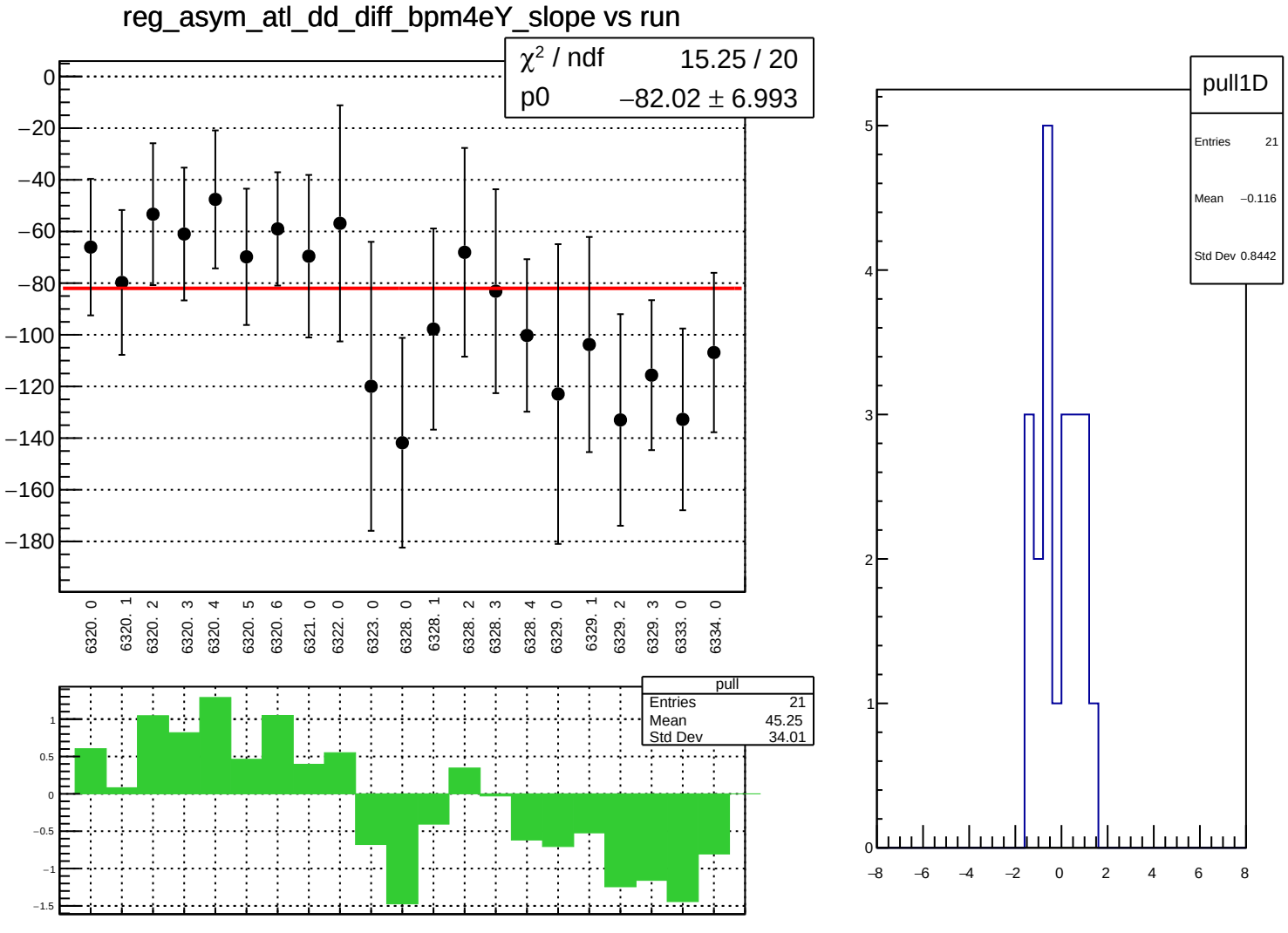

pull
Entries 21
Mean 40.93
Std Dev 30.22
1.5
1
0.5
0
−0.5
−1
−1.5

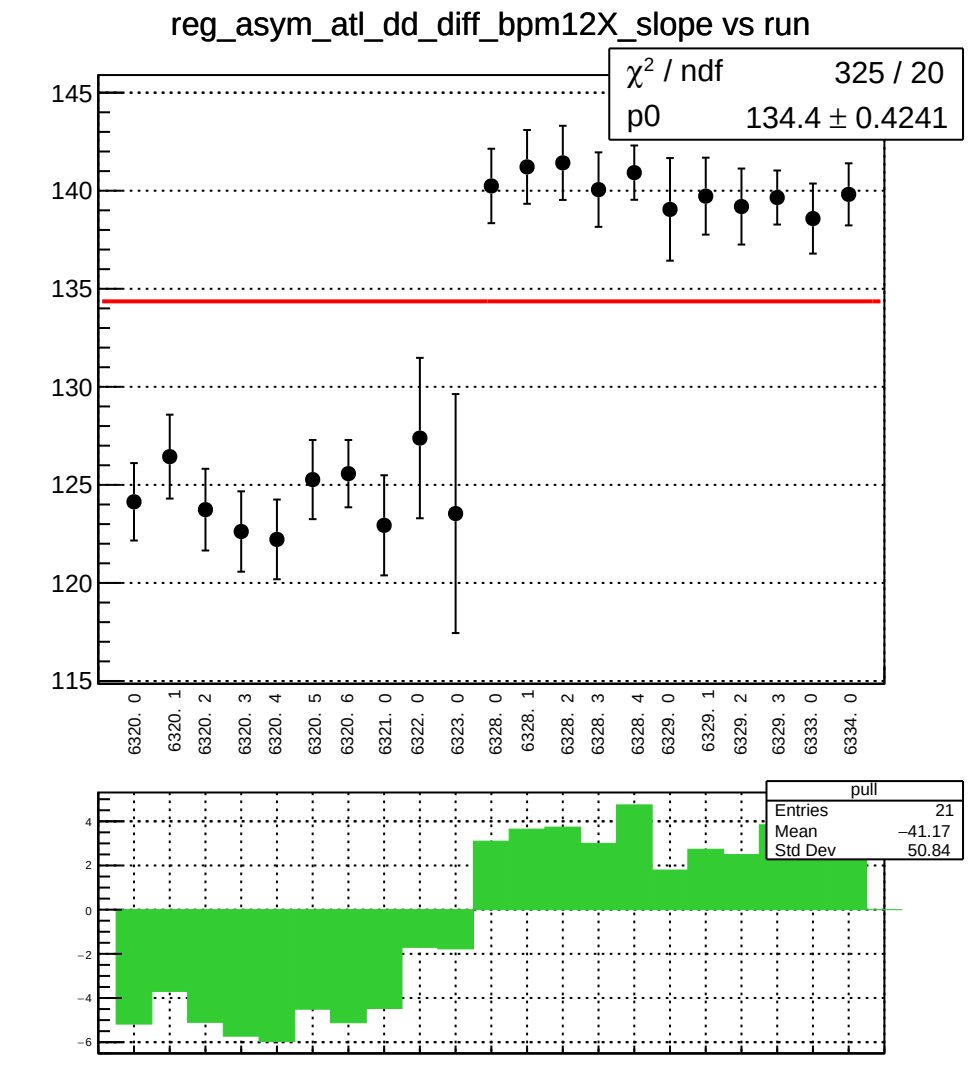

pull1D
Entries 21
Mean −0.1441
Std Dev 0.8988
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

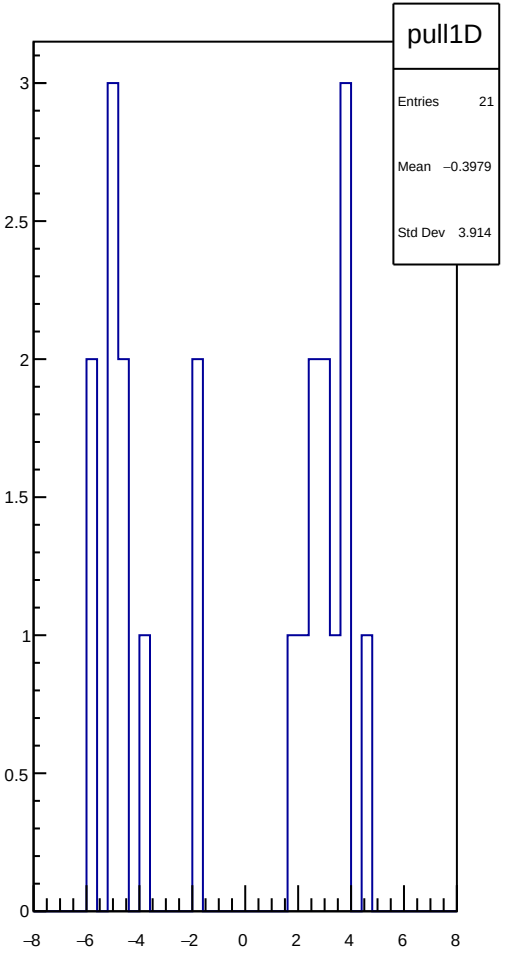

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.38 / 20
p0 5.528 ± 5.862
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 33.32
Std Dev 21.77
1
0.5
0
−0.5
−1

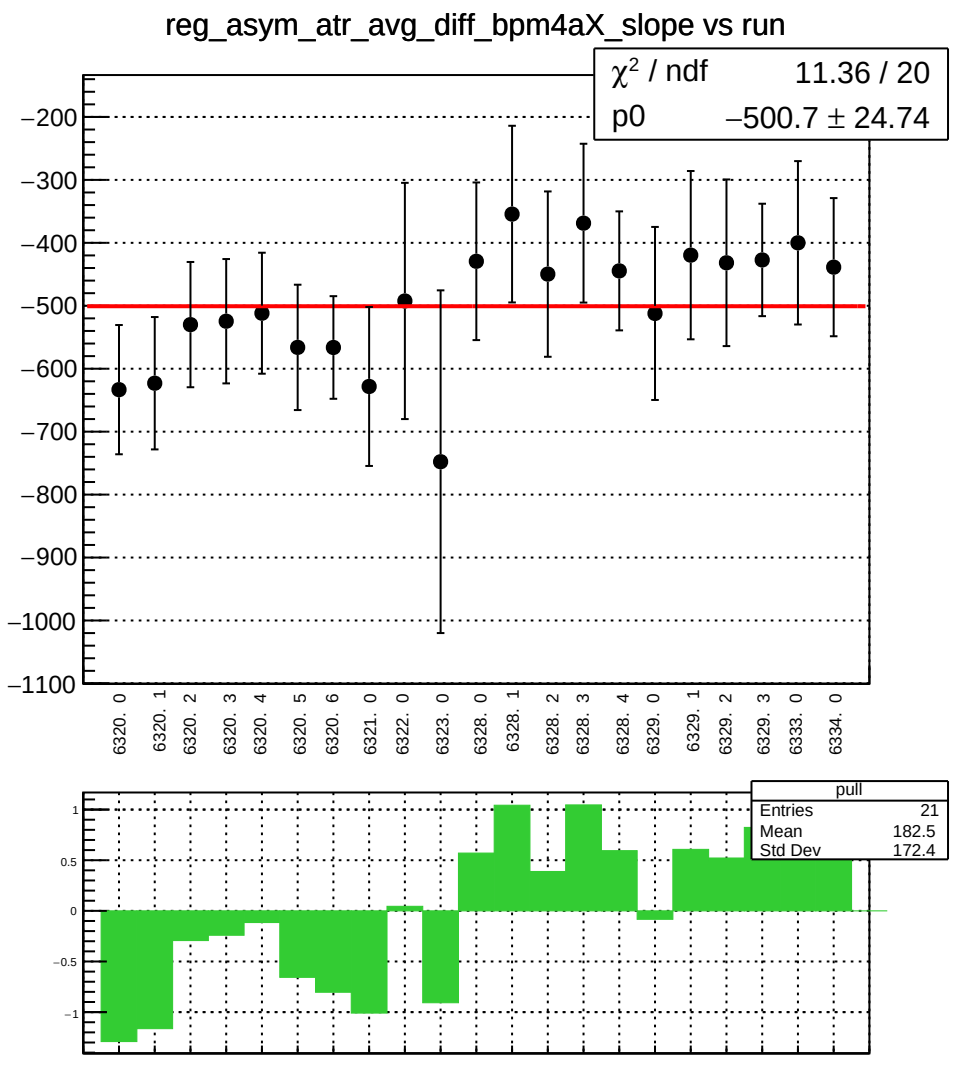

pull1D
Entries 21
Mean 0.1205
Std Dev 0.6927
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

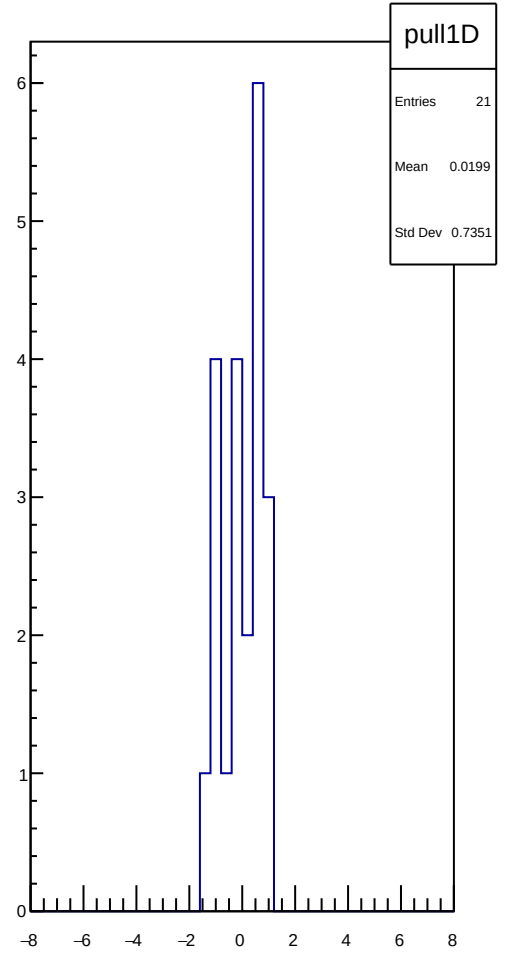

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.31 / 20
p0 −307 ± 14.54
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.19
Std Dev 29.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.1518
Std Dev 0.9214
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

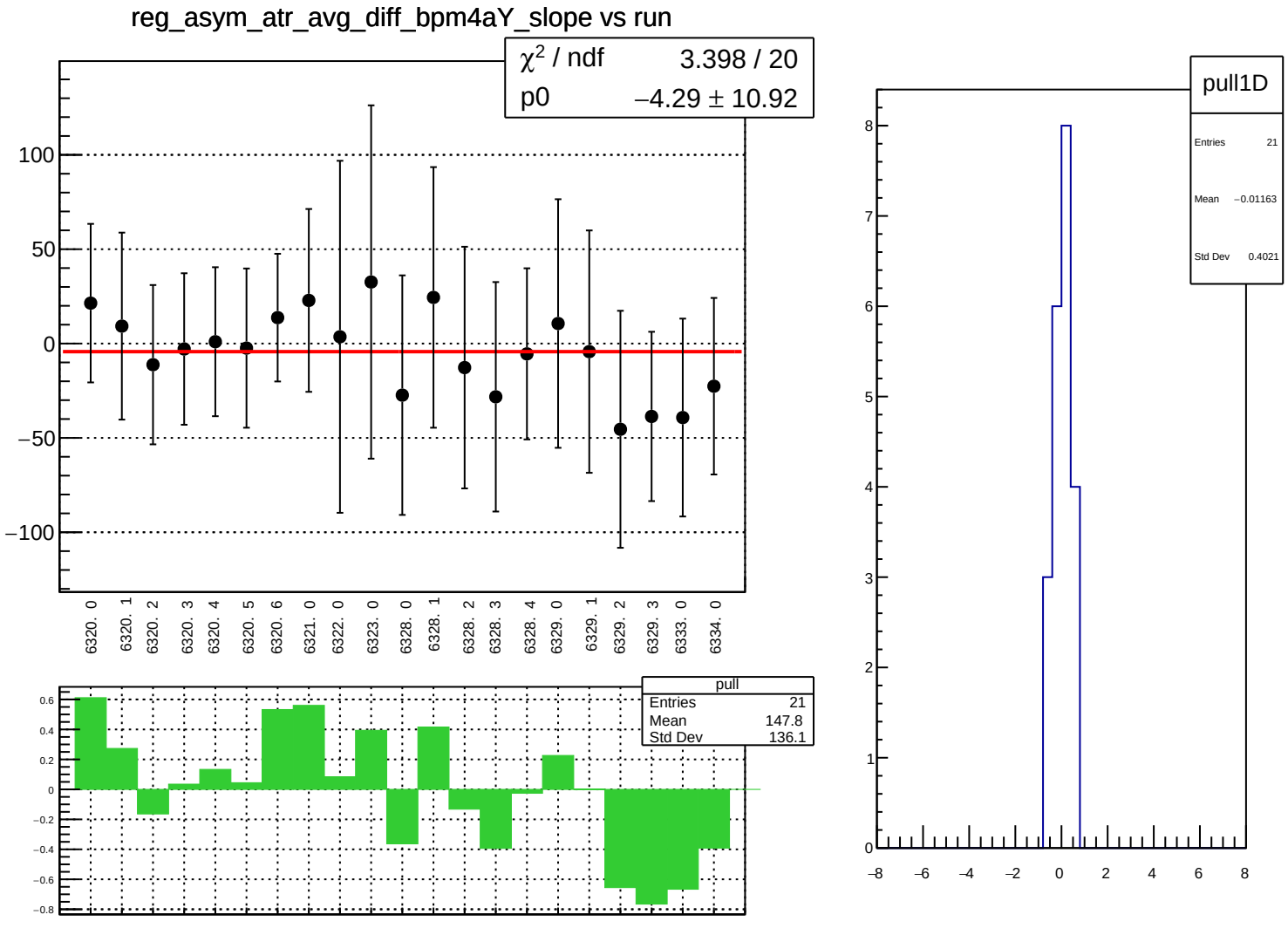

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.25 / 20
p0 −82.02 ± 6.993
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 45.25
Std Dev 34.01
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.116
Std Dev 0.8442
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

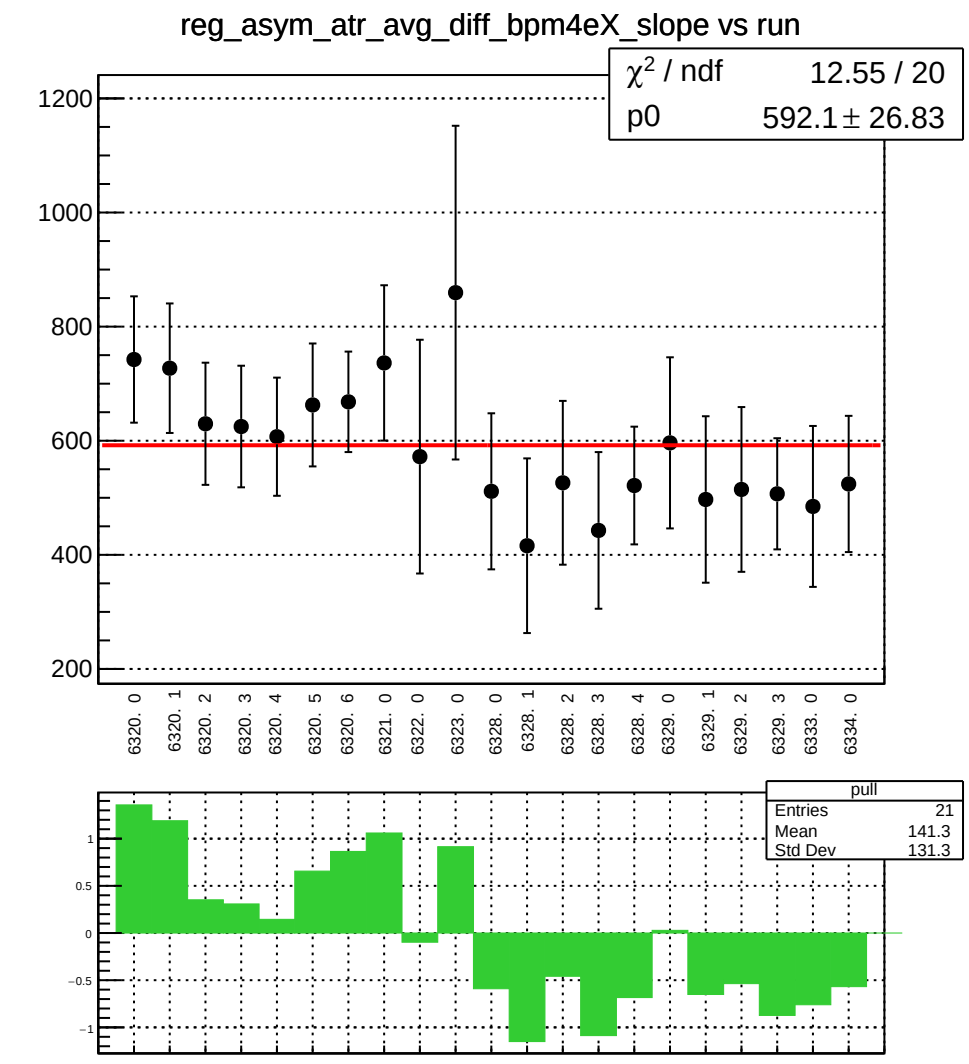

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 325 / 20
p0 134.4 ± 0.4241
145
140
135
130
125
120
115
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −41.17
Std Dev 50.84
4
2
0
−2
−4
−6

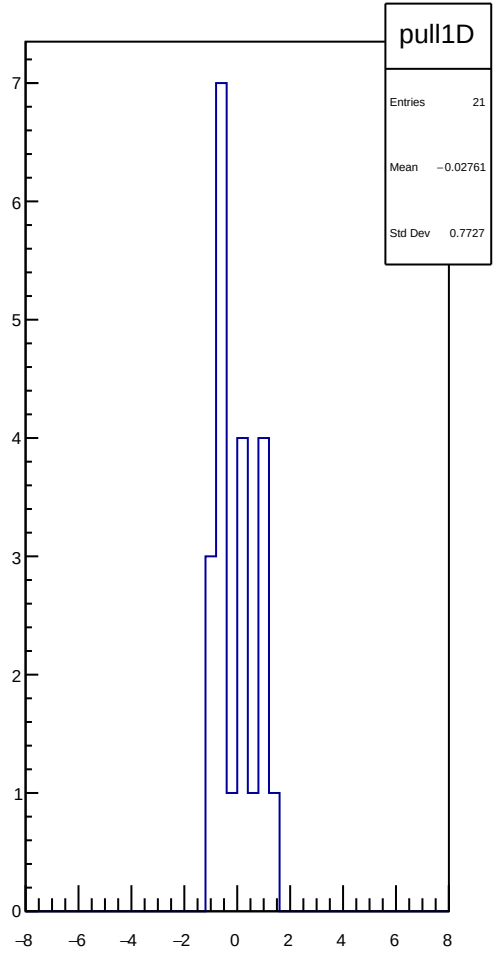

pull1D
Entries 21
Mean −0.3979
Std Dev 3.914
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

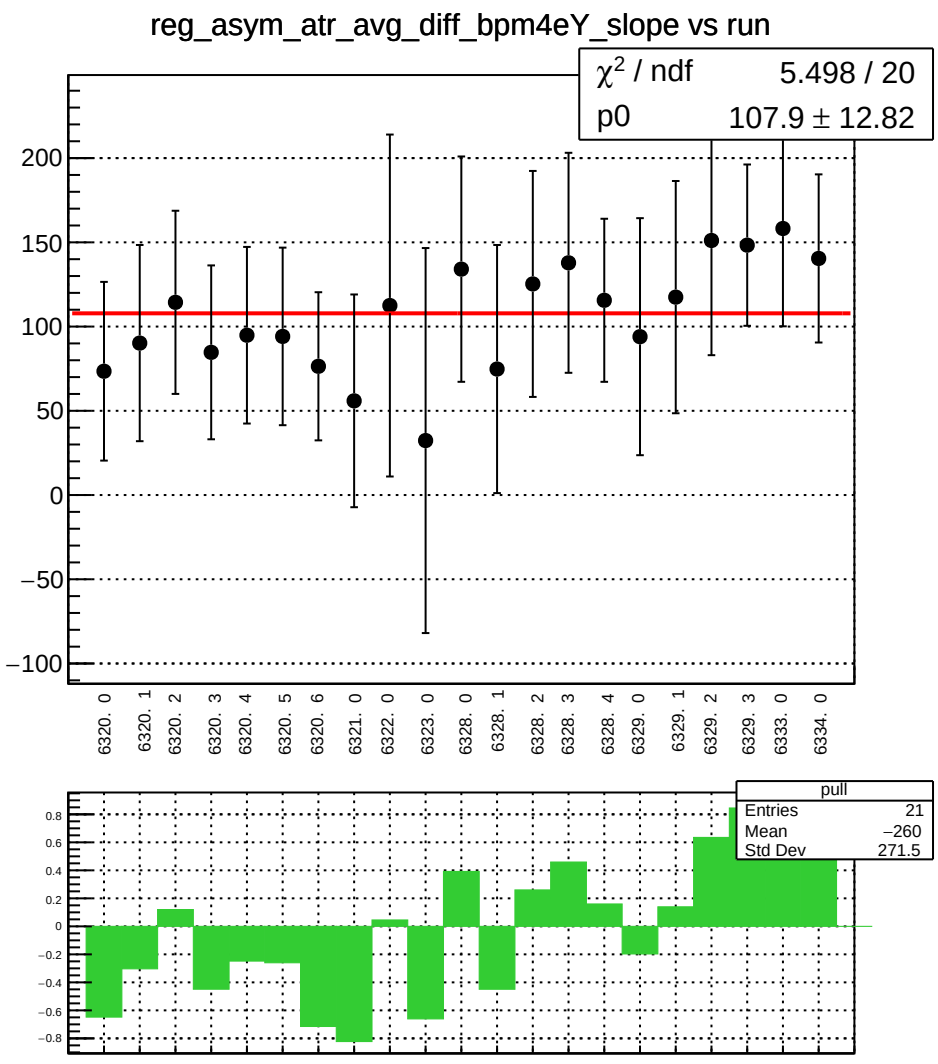

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.36 / 20
p0 −500.7 ± 24.74
−200
−300
−400
−500
−600
−700
−800
−900
−1000
−1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 182.5
Std Dev 172.4
1
0.5
0
−0.5
−1

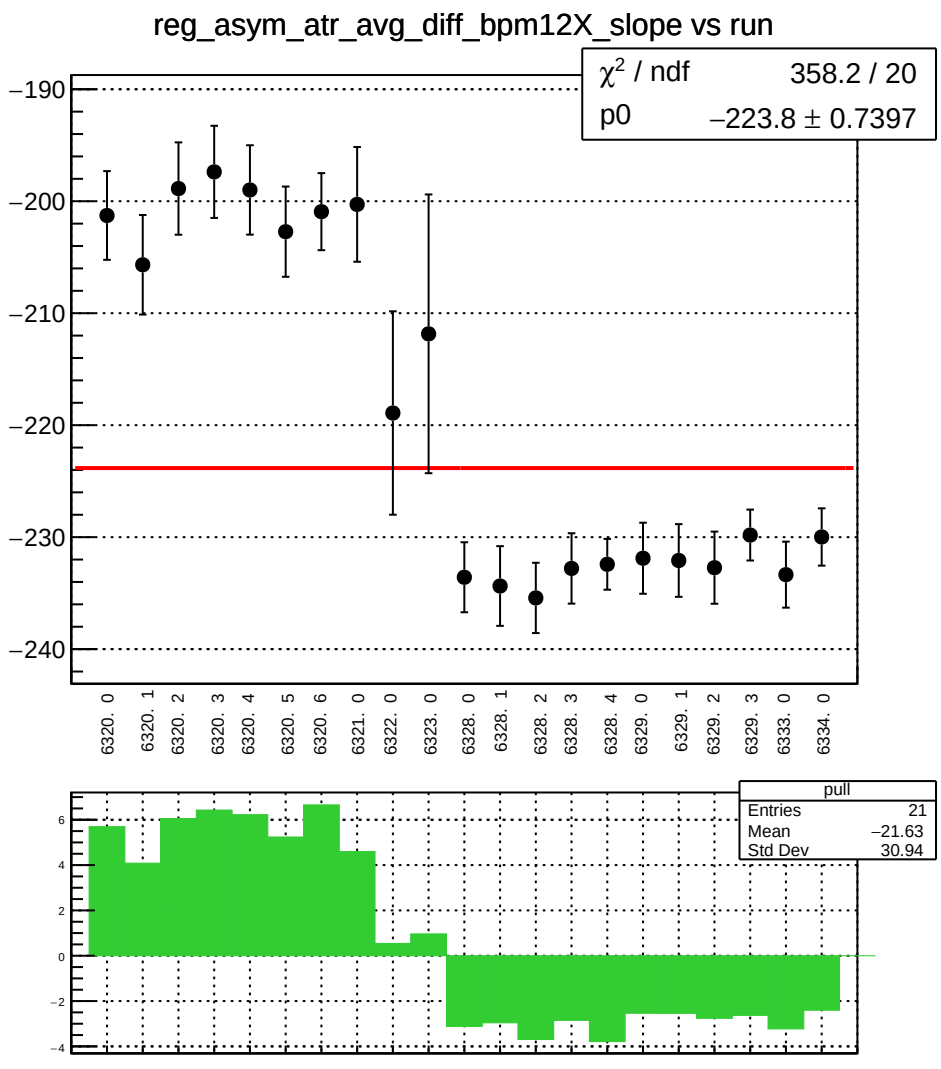

pull1D
Entries 21
Mean 0.0199
Std Dev 0.7351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

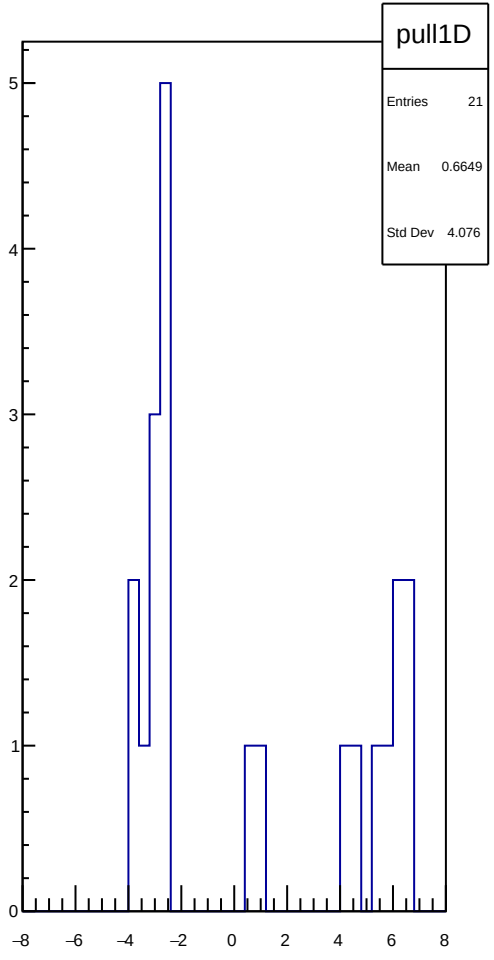

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.398 / 20
p0 −4.29 ± 10.92
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 147.8
Std Dev 136.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.01163
Std Dev 0.4021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

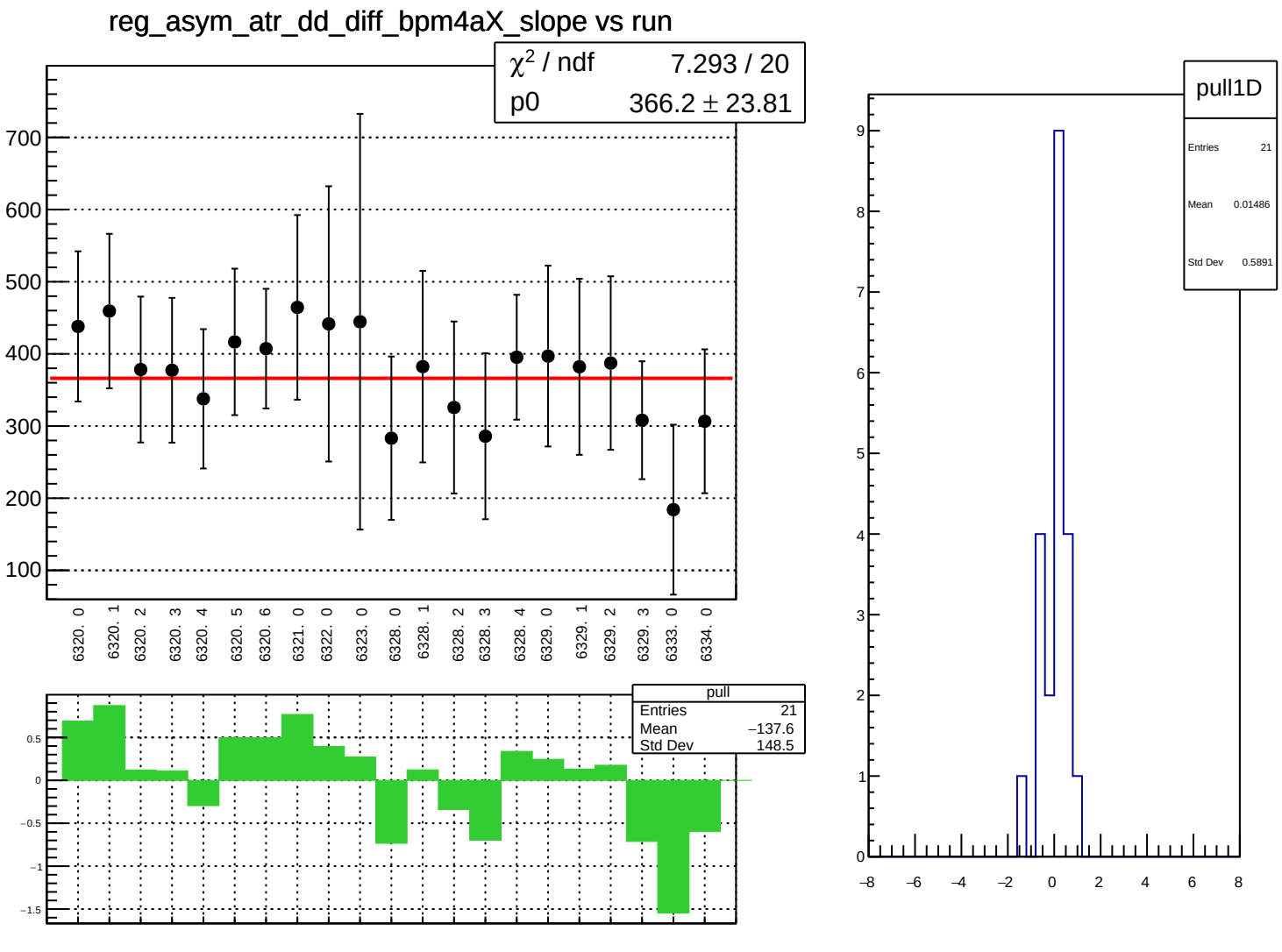

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.55 / 20
p0 592.1 ± 26.83
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 141.3
Std Dev 131.3
1
0.5
0
−0.5
−1

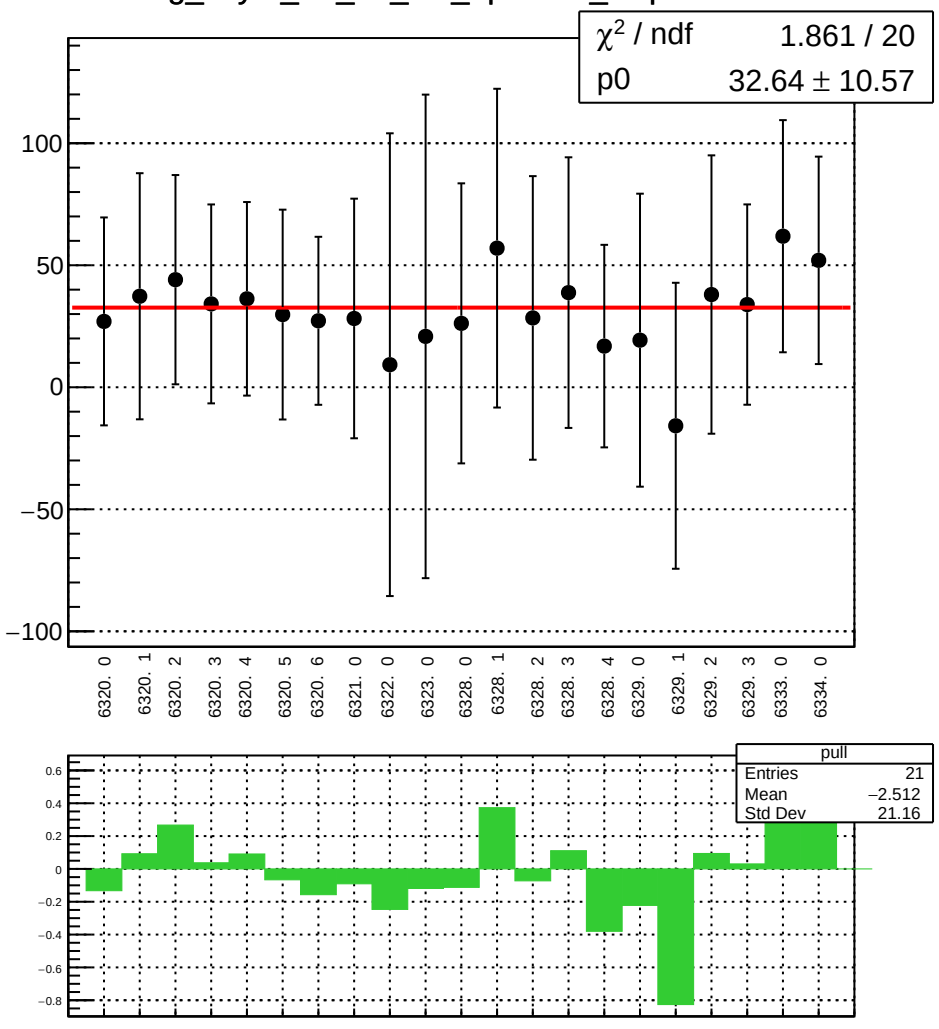

pull1D
Entries 21
Mean −0.02761
Std Dev 0.7727
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

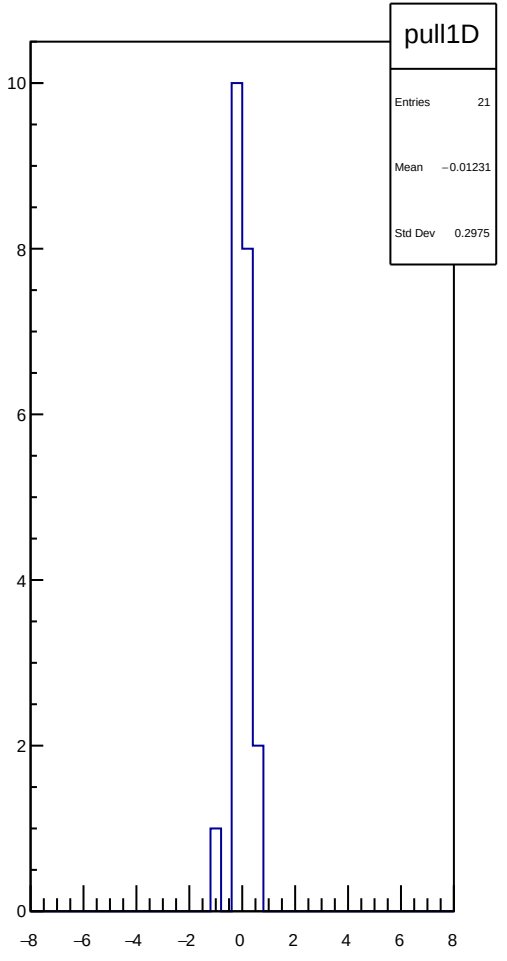

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.498 / 20
p0 107.9 ± 12.82
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −260
Std Dev 271.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.008372
Std Dev 0.5116
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

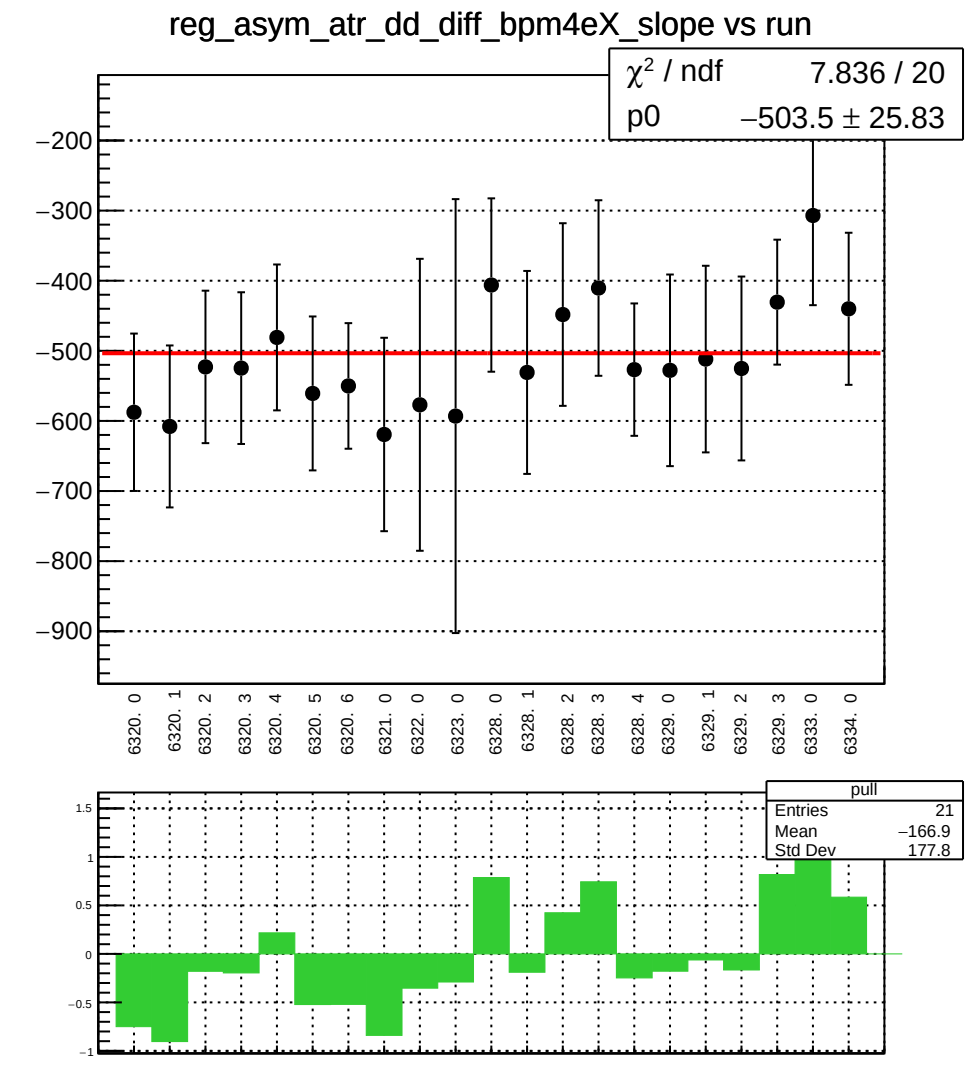

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 358.2 / 20
p0 −223.8 ± 0.7397
−190
−200
−210
−220
−230
−240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.63
Std Dev 30.94
6
4
2
0
−2
−4

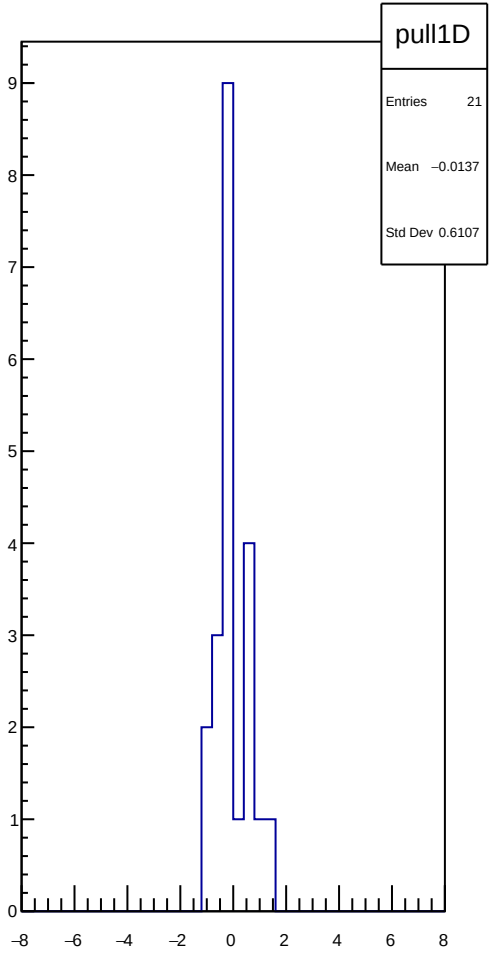

pull1D
Entries 21
Mean 0.6649
Std Dev 4.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

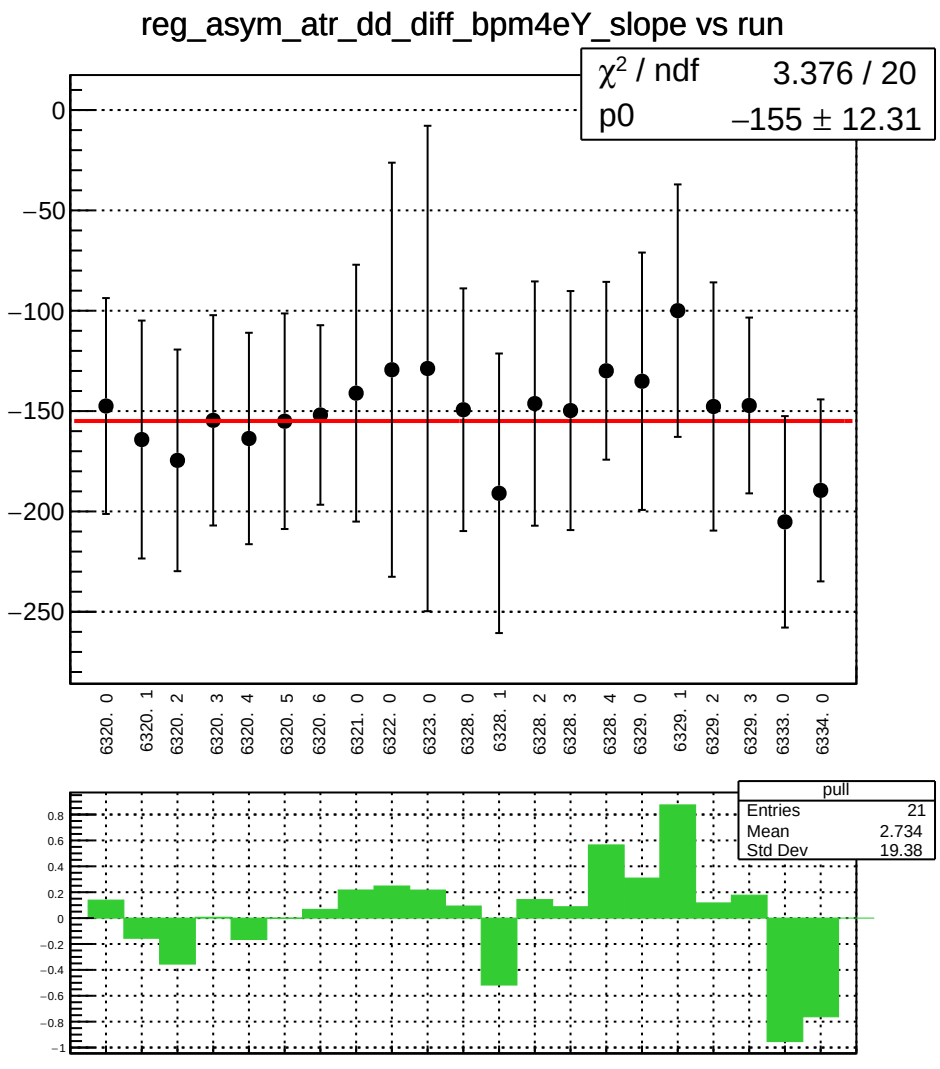

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.293 / 20
p0 366.2 ± 23.81
700
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −137.6
Std Dev 148.5
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.01486
Std Dev 0.5891
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

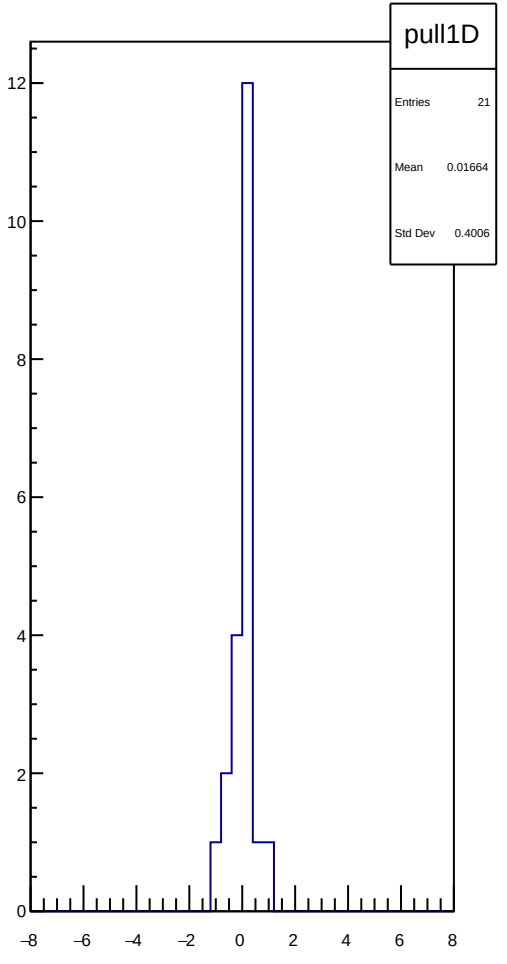

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.861 / 20
p0 32.64 ± 10.57
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.512
Std Dev 21.16
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

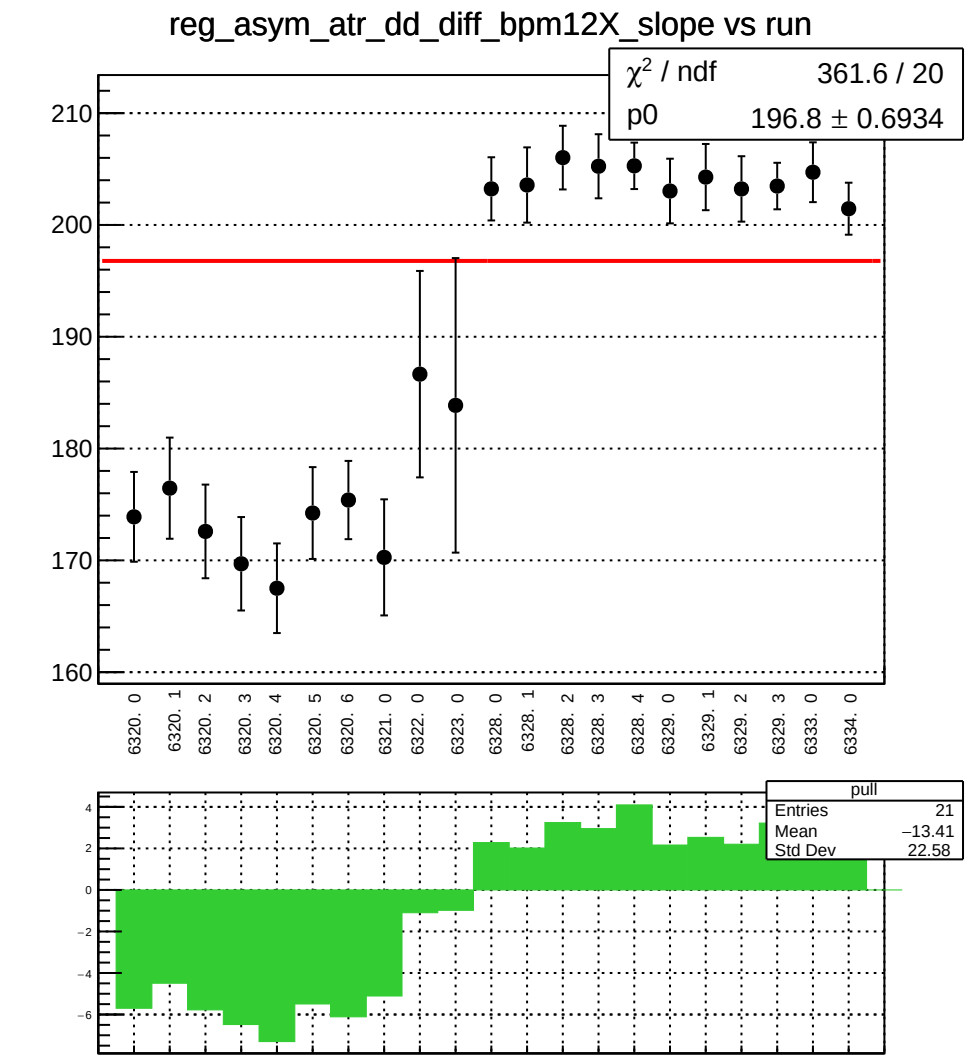

pull1D
Entries 21
Mean −0.01231
Std Dev 0.2975
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

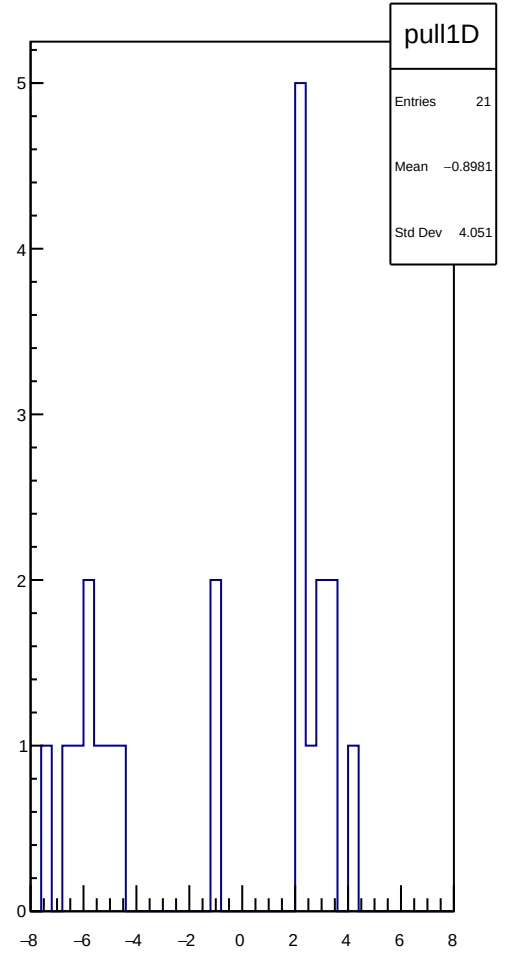

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.836 / 20
p0 −503.5 ± 25.83
−200
−300
−400
−500
−600
−700
−800
−900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −166.9
Std Dev 177.8
1.5
1
0.5
0
−0.5
−1

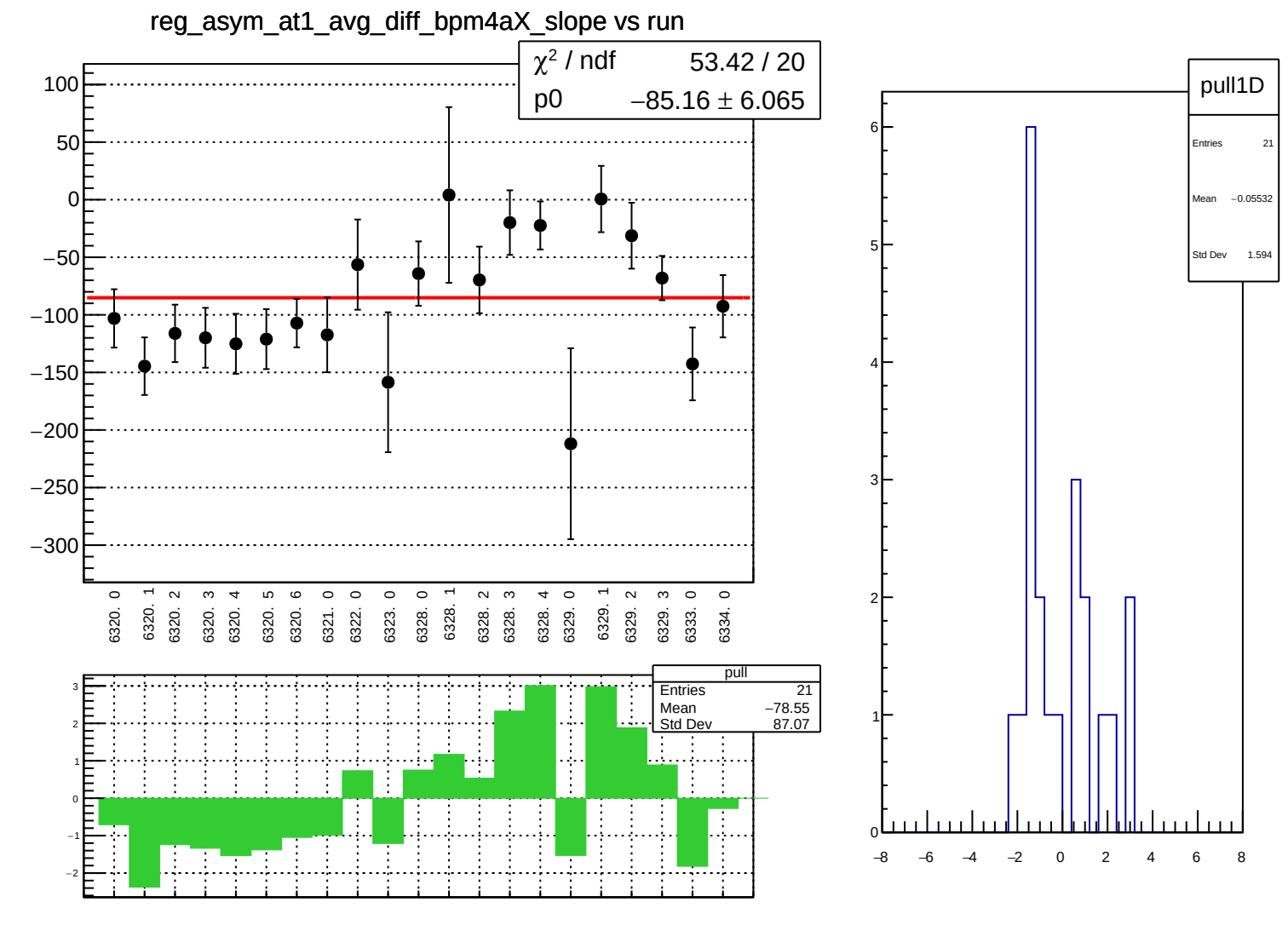

pull1D
Entries 21
Mean −0.0137
Std Dev 0.6107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

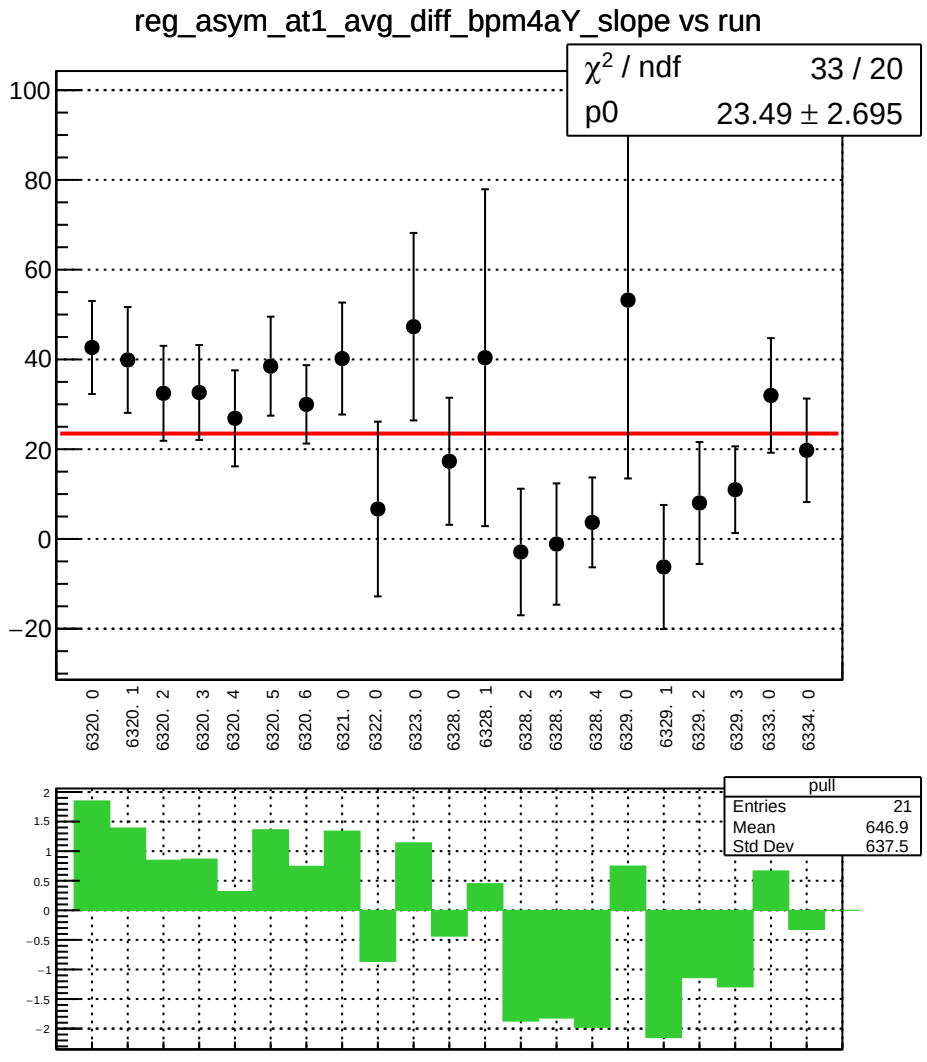

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.376 / 20
p0 −155 ± 12.31
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2.734
Std Dev 19.38
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

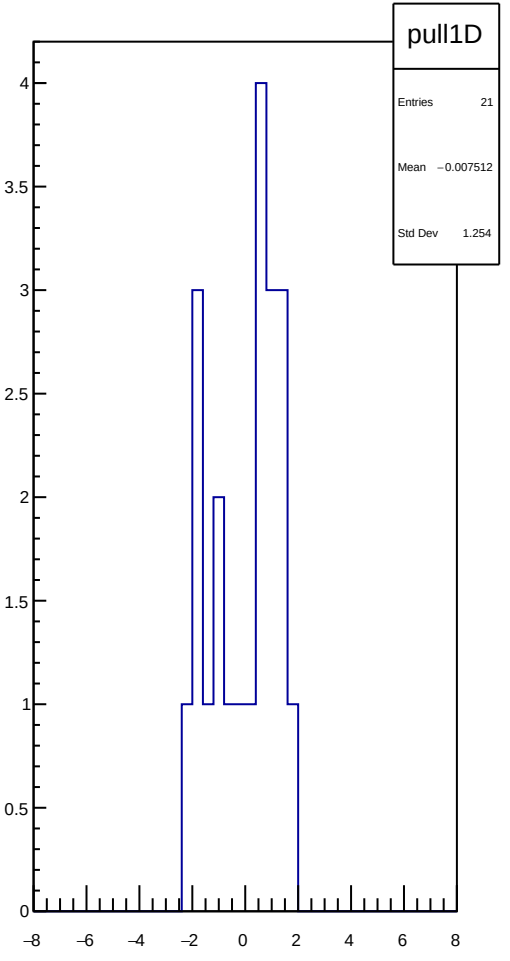

pull1D
Entries 21
Mean 0.01664
Std Dev 0.4006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

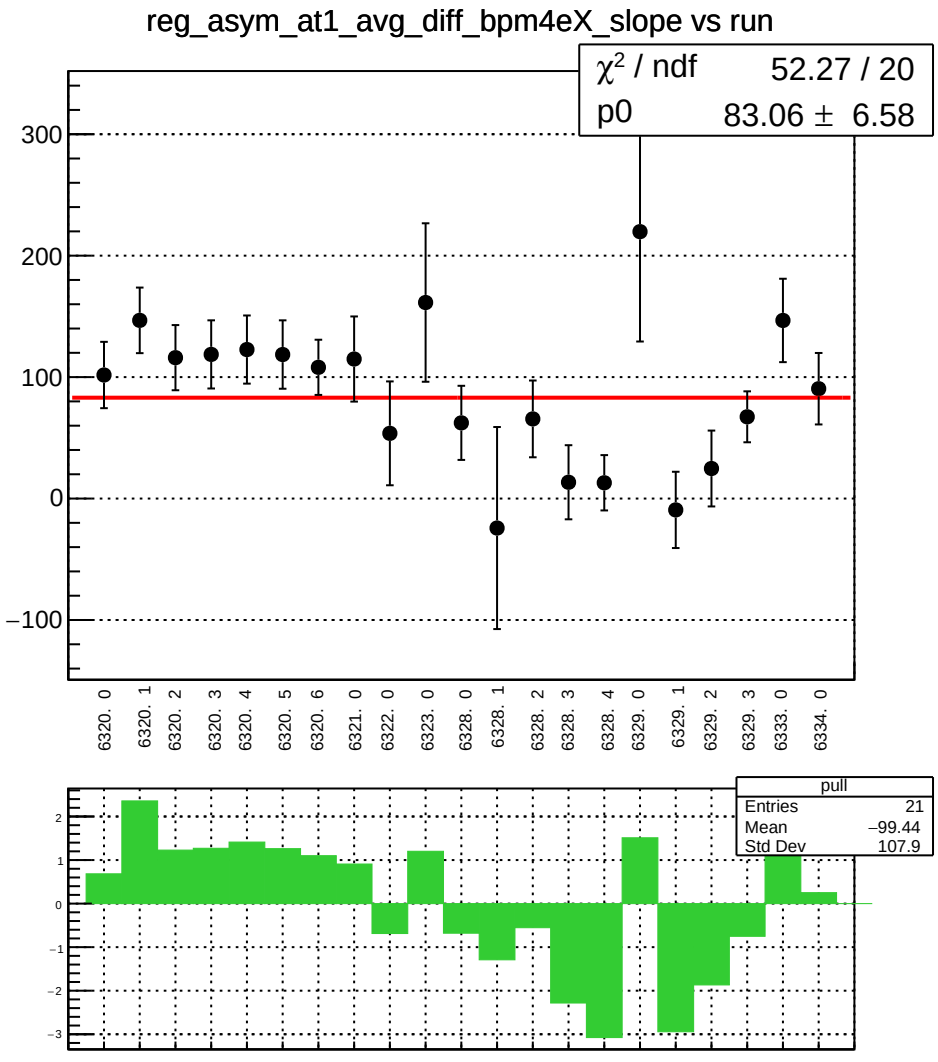

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 361.6 / 20
p0 196.8 ± 0.6934
210
200
190
180
170
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.41
Std Dev 22.58
4
2
0
−2
−4
−6

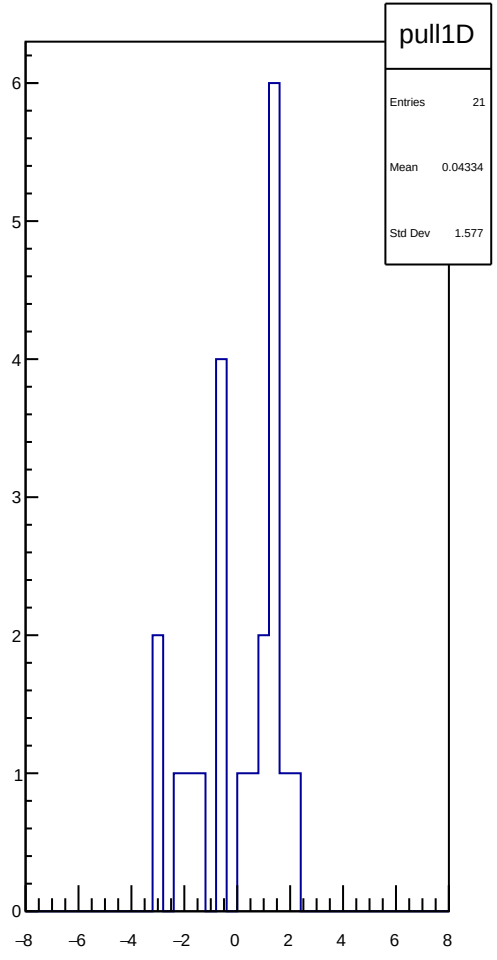

pull1D
Entries 21
Mean −0.8981
Std Dev 4.051
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

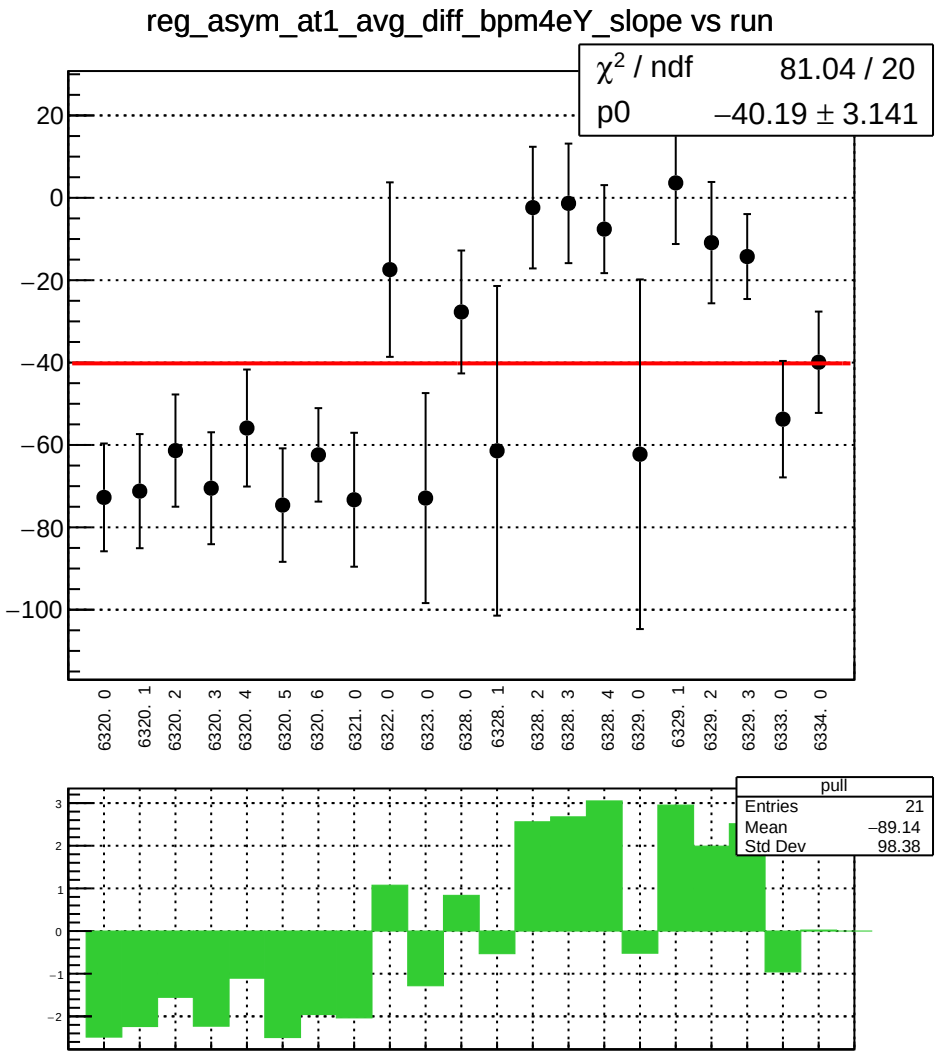

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 53.42 / 20
p0 −85.16 ± 6.065
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −78.55
Std Dev 87.07
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05532
Std Dev 1.594
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

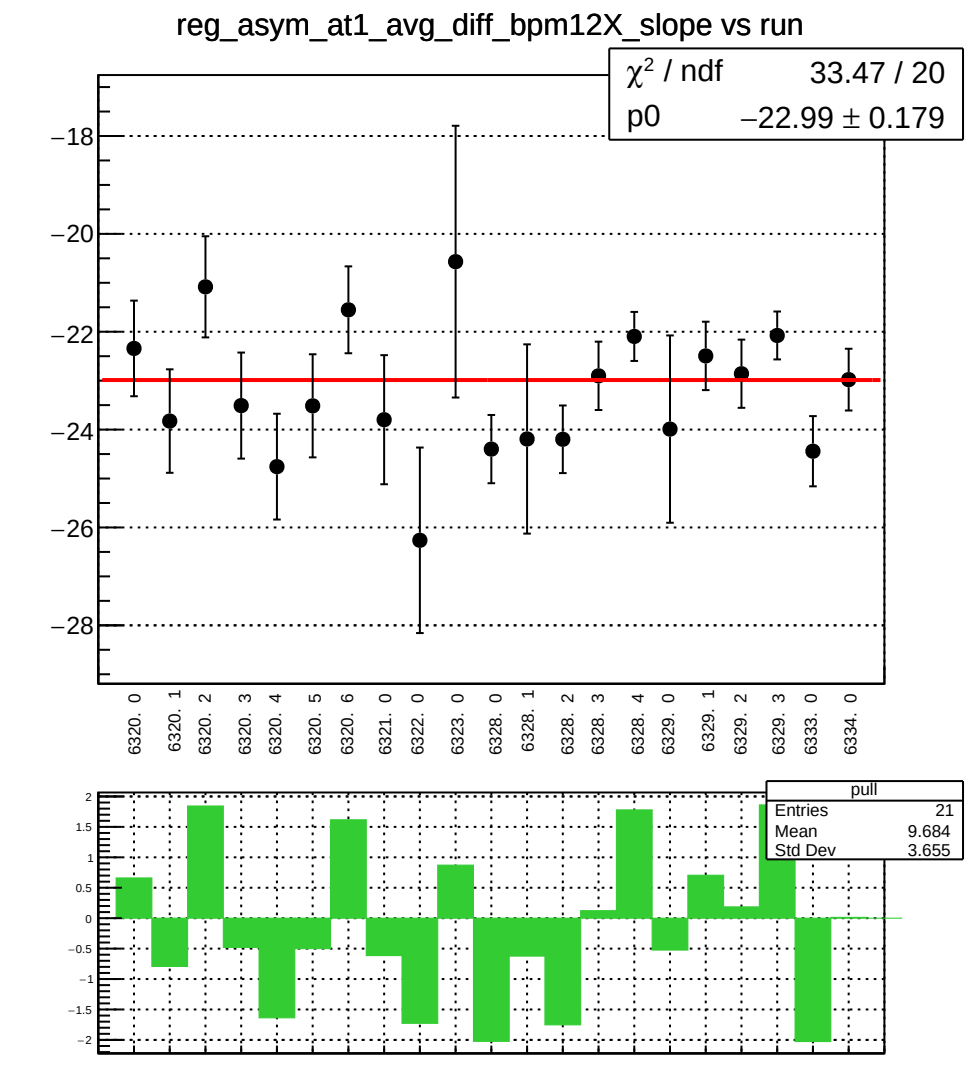

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 33 / 20
p0 23.49 ± 2.695
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 646.9
Std Dev 637.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

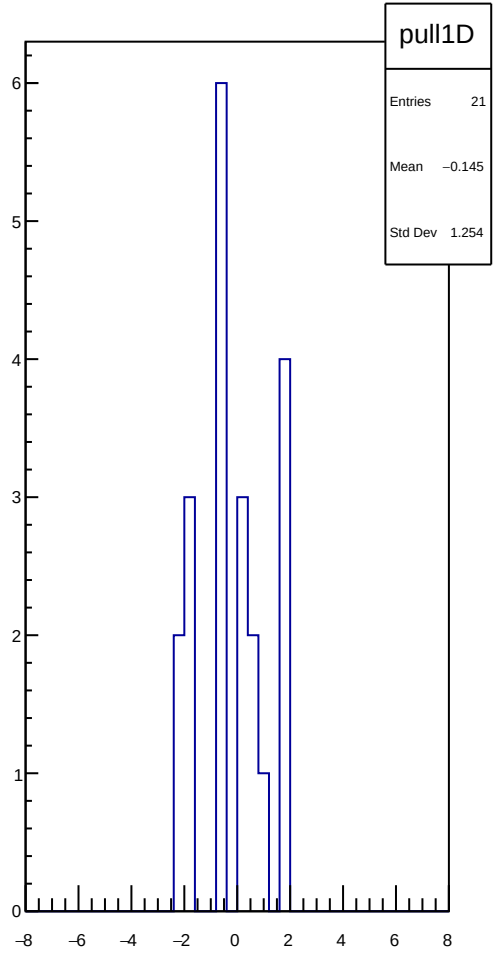

pull1D
Entries 21
Mean −0.007512
Std Dev 1.254
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

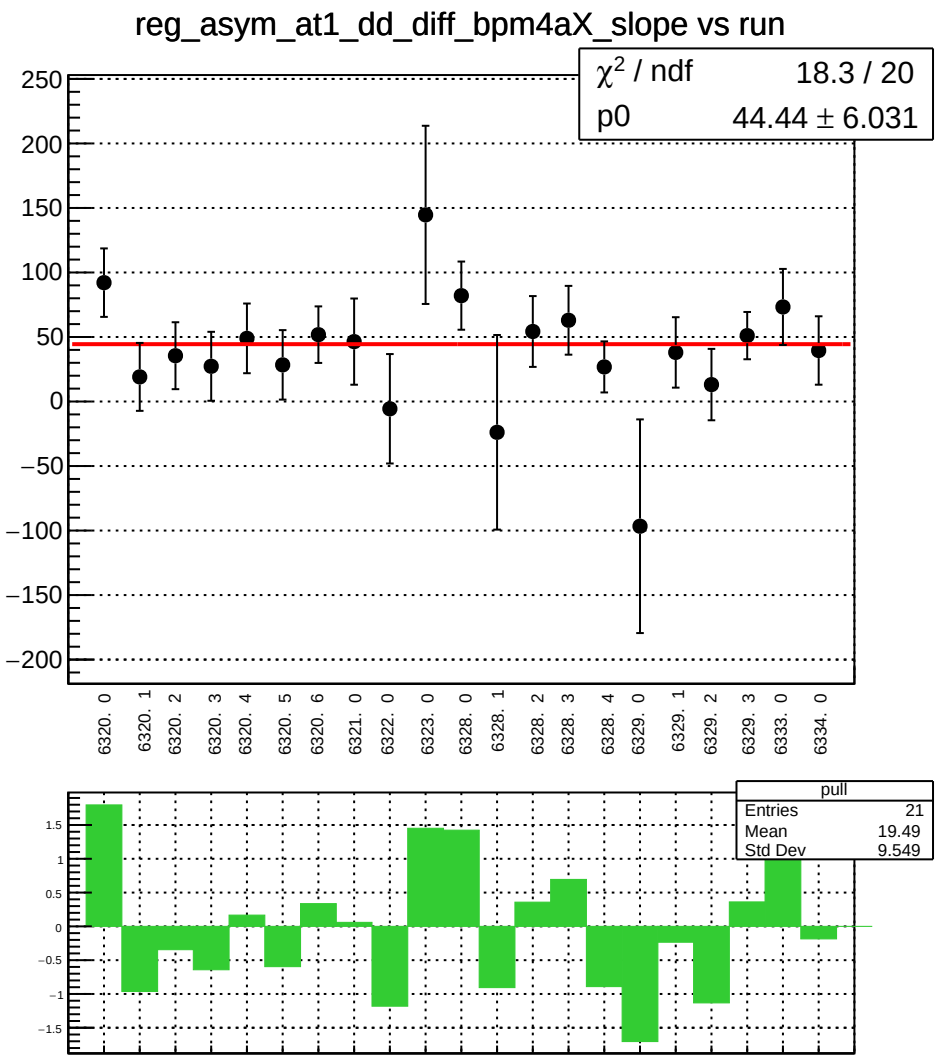

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.27 / 20
p0 83.06 ± 6.58
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −99.44
Std Dev 107.9
2
1
0
−1
−2
−3

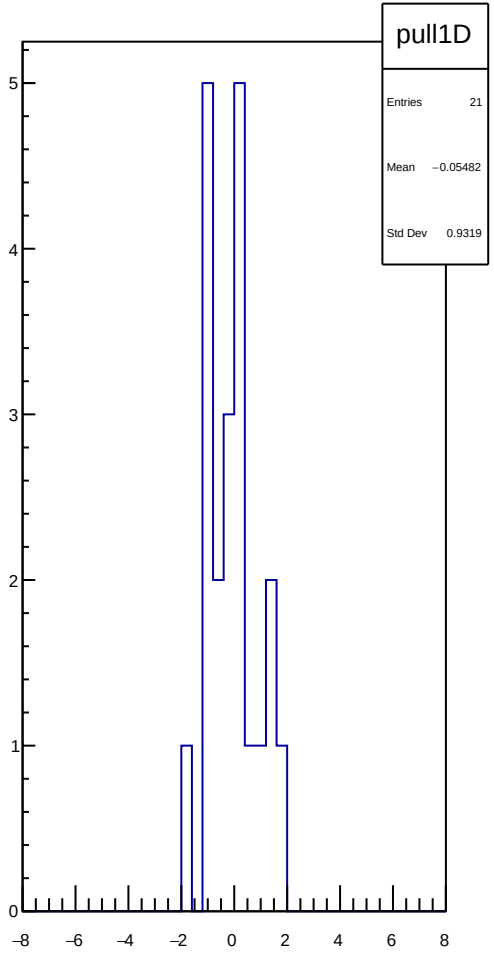

pull1D
Entries 21
Mean 0.04334
Std Dev 1.577
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

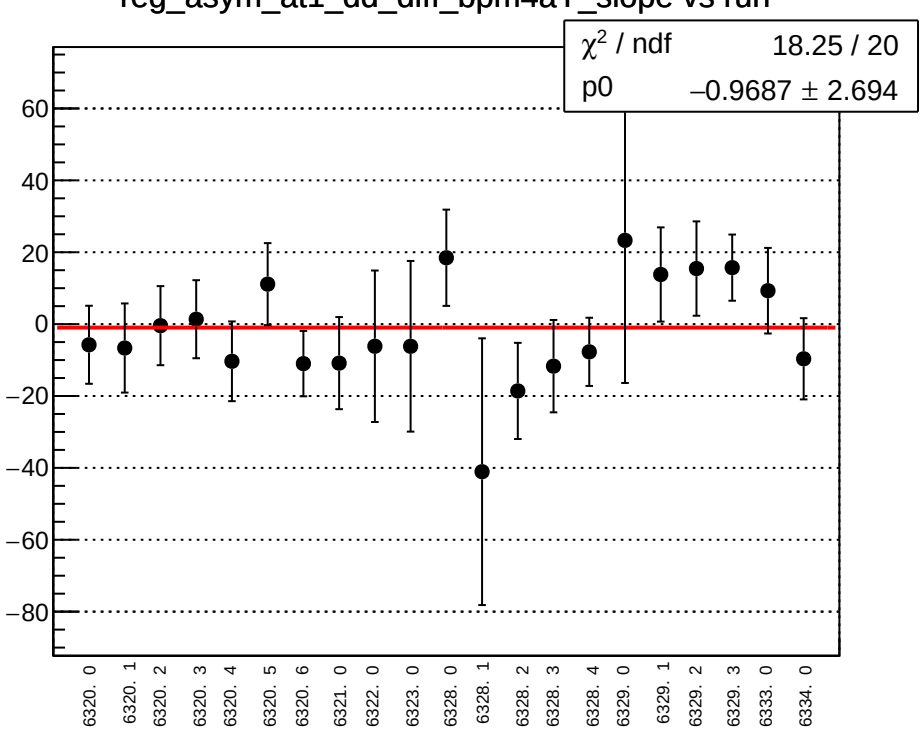

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.04 / 20
p0 −40.19 ± 3.141
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −89.14
Std Dev 98.38
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.08165
Std Dev 1.963
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

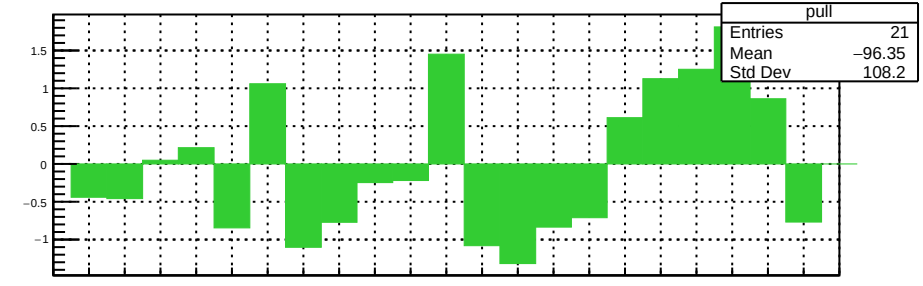

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 33.47 / 20
p0 −22.99 ± 0.179
−18
−20
−22
−24
−26
−28
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.684
Std Dev 3.655
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

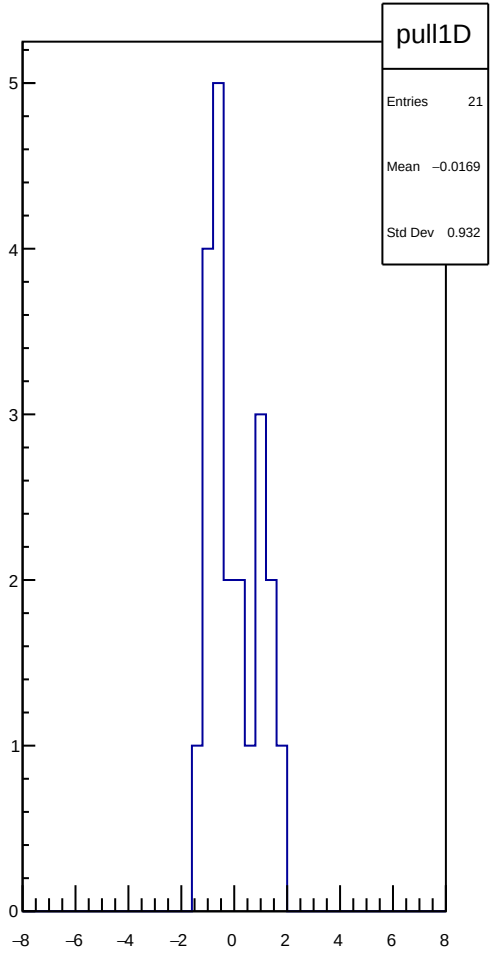

pull1D
Entries 21
Mean −0.145
Std Dev 1.254
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

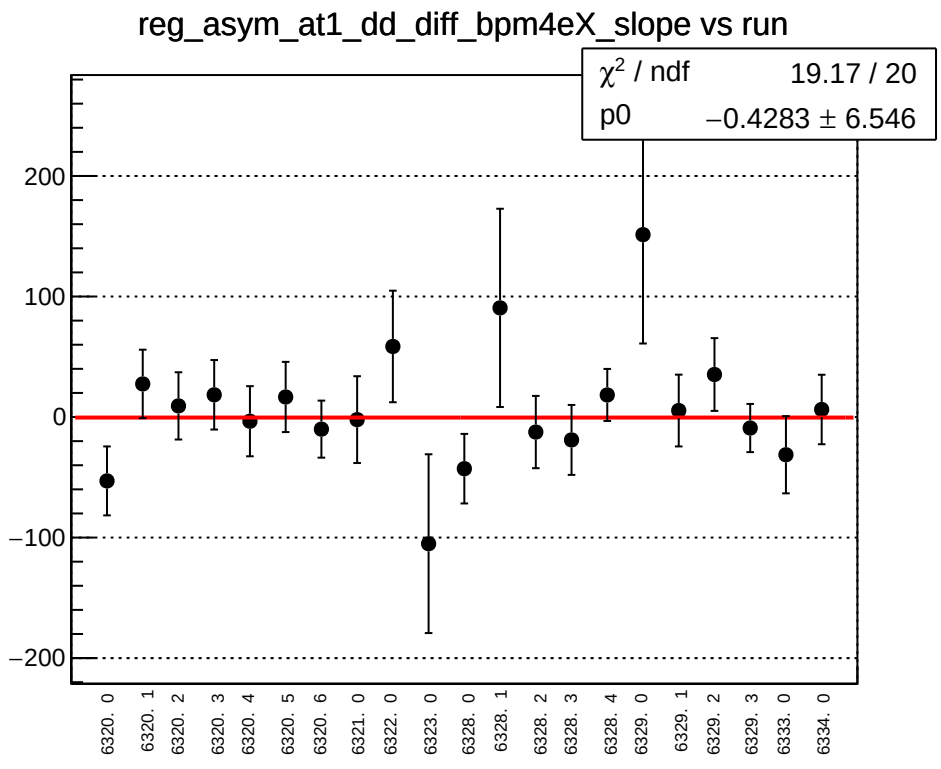

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.3 / 20
p0 44.44 ± 6.031
250
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 19.49
Std Dev 9.549
1.5
1
0.5
0
−0.5
−1
−1.5

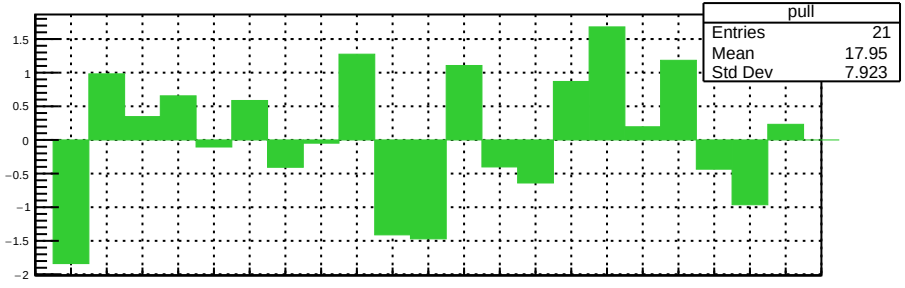

pull1D
Entries 21
Mean −0.05482
Std Dev 0.9319
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

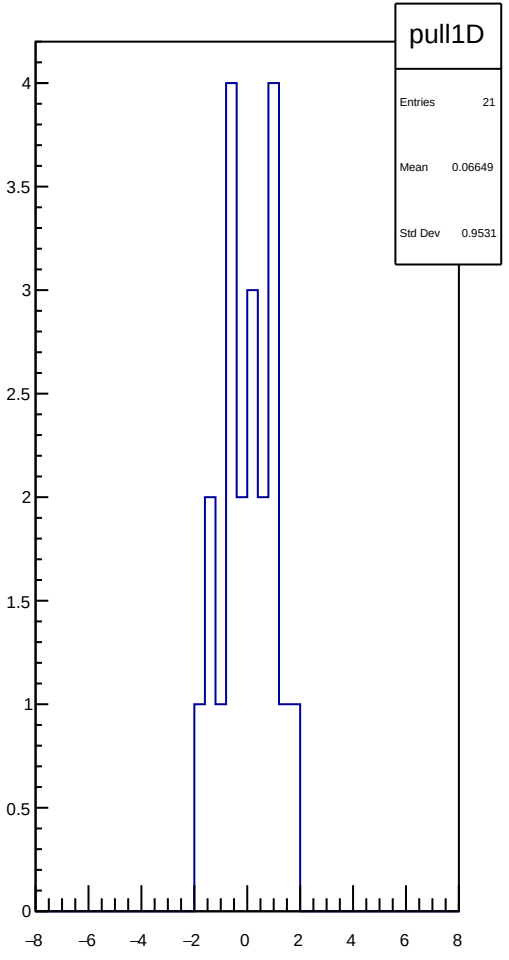

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.25 / 20
p0 −0.9687 ± 2.694
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

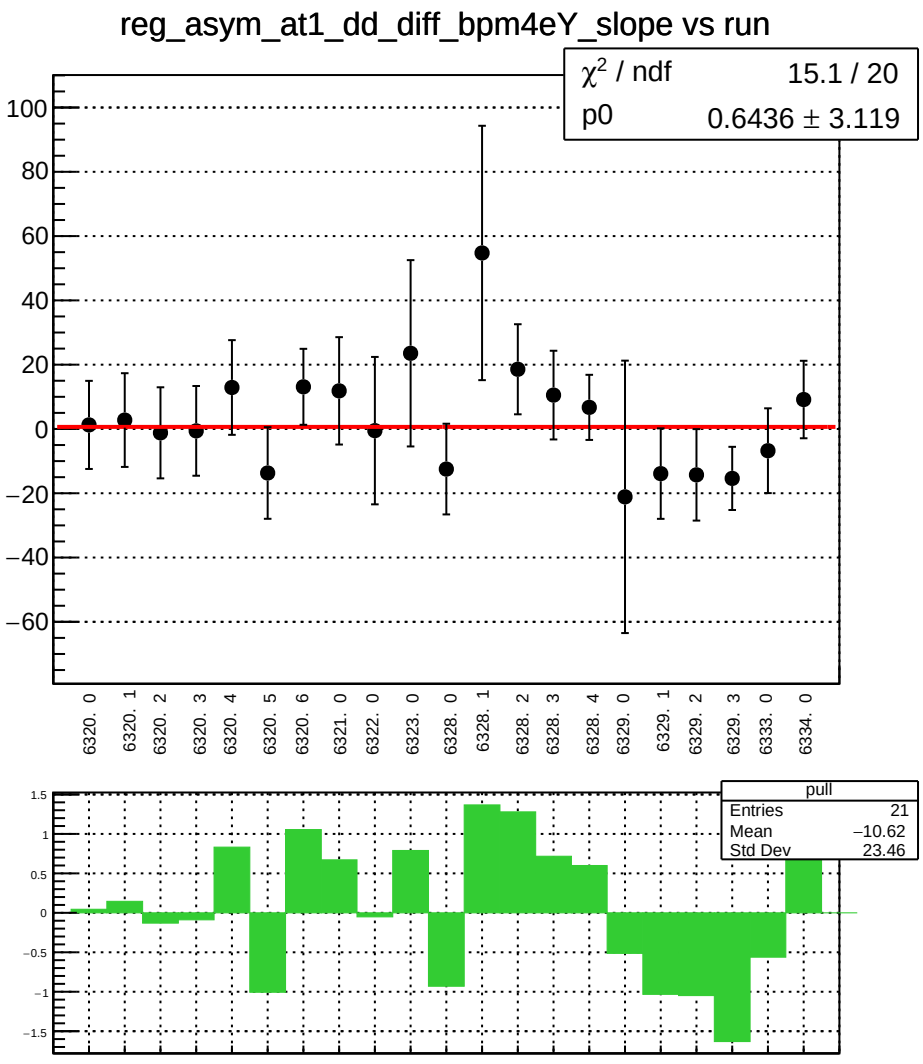

pull
Entries 21
Mean −96.35
Std Dev 108.2
1.5
1
0.5
0
−0.5
−1

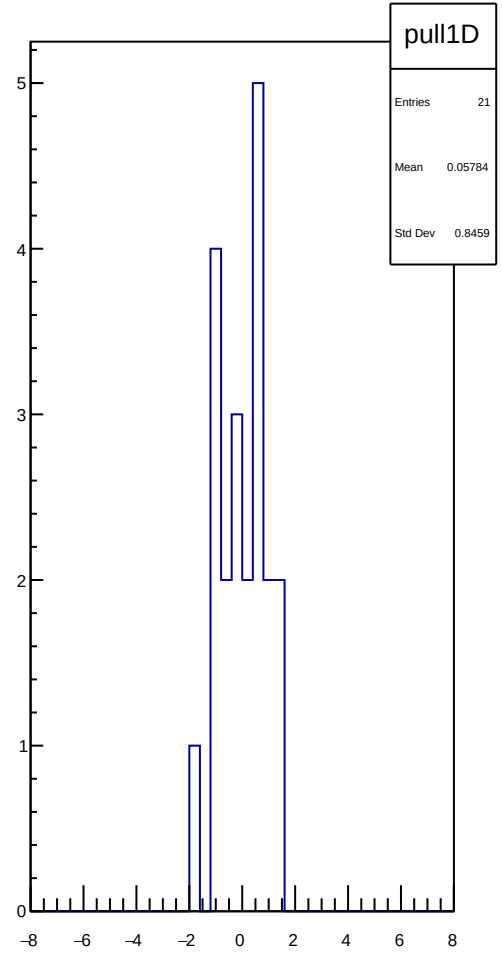

pull1D
Entries 21
Mean −0.0169
Std Dev 0.932
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

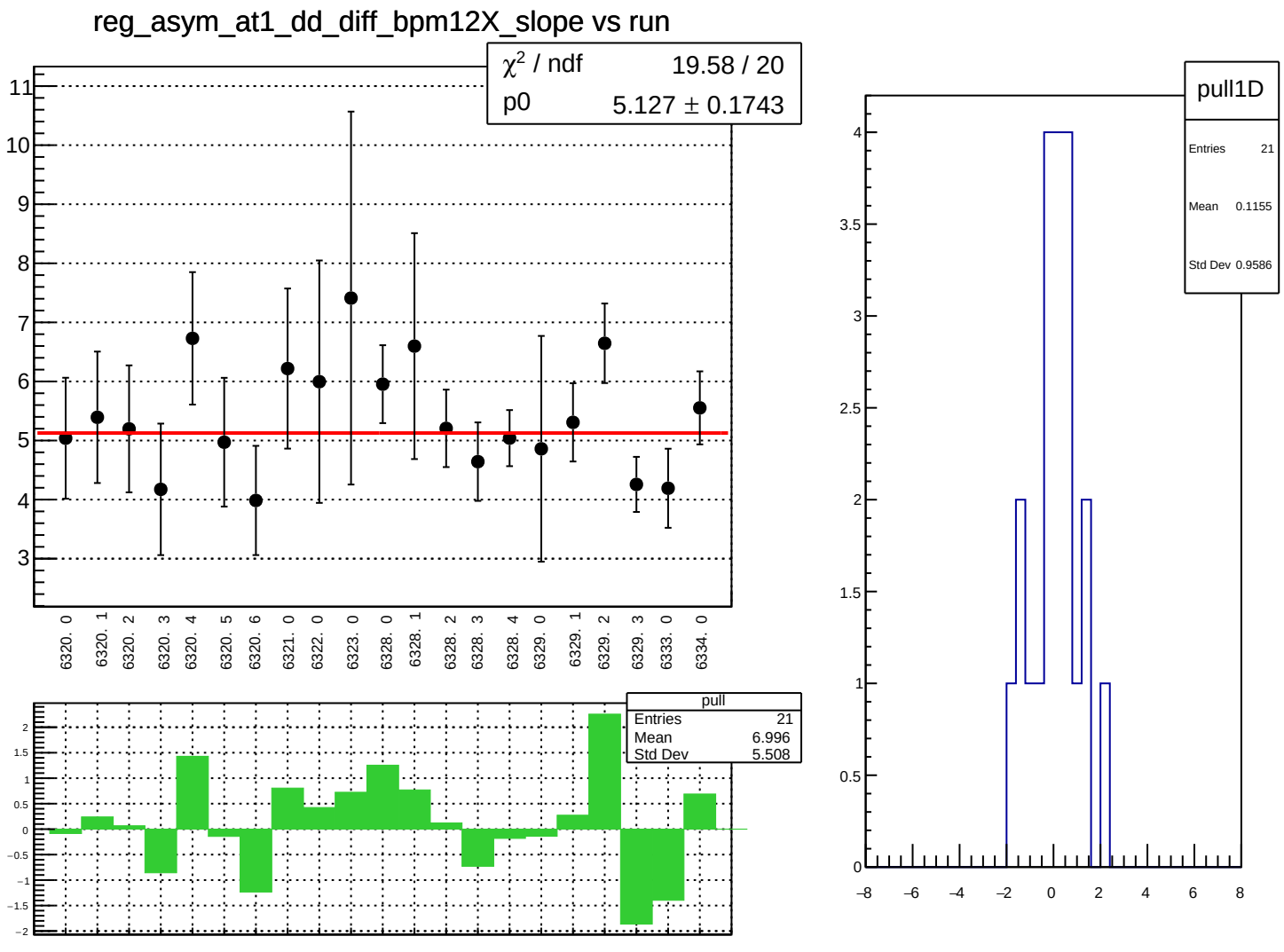

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.17 / 20
p0 −0.4283 ± 6.546
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

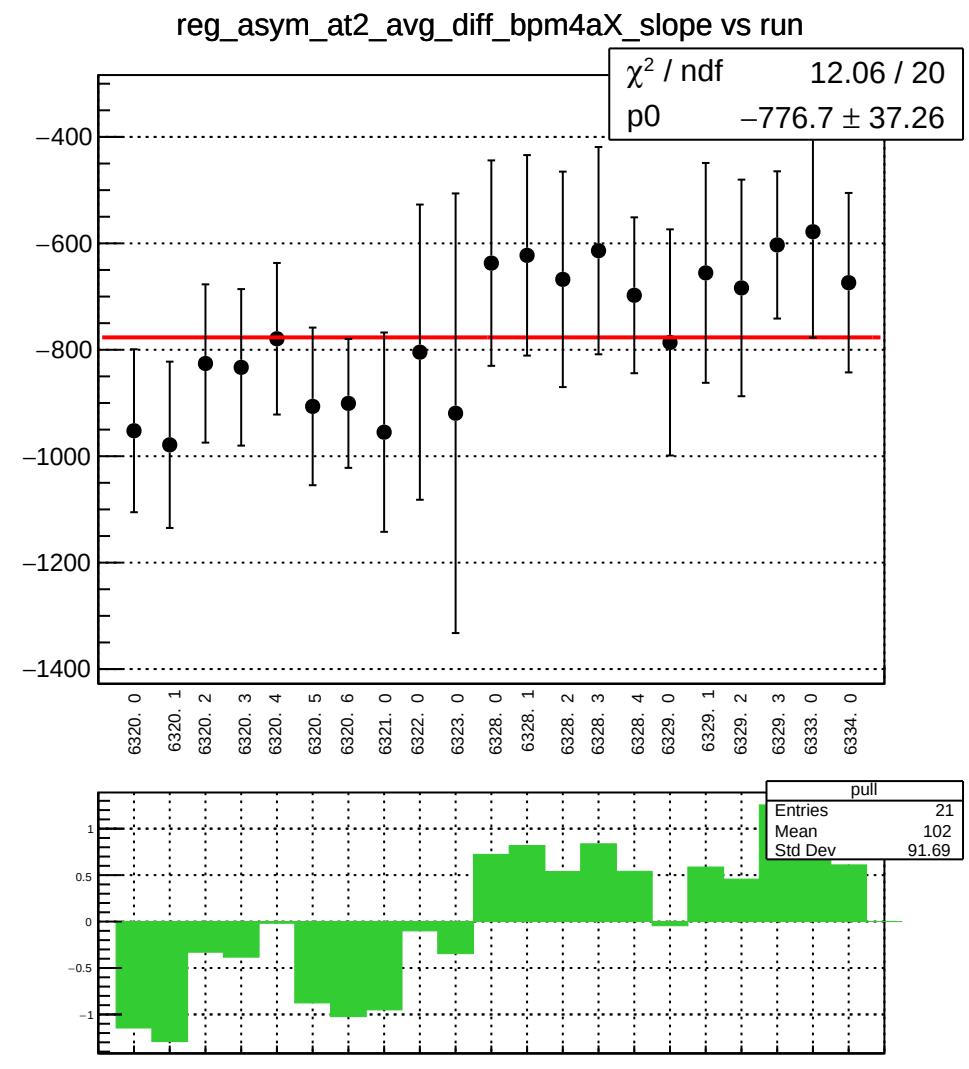

pull
Entries 21
Mean 17.95
Std Dev 7.923
1.5
1
0.5
0
−0.5
−1
−1.5
−2

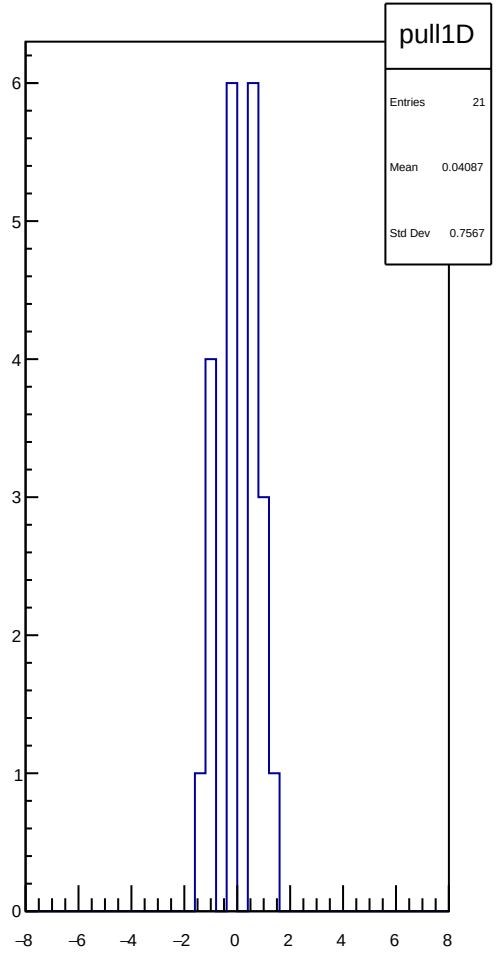

pull1D
Entries 21
Mean 0.06649
Std Dev 0.9531
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

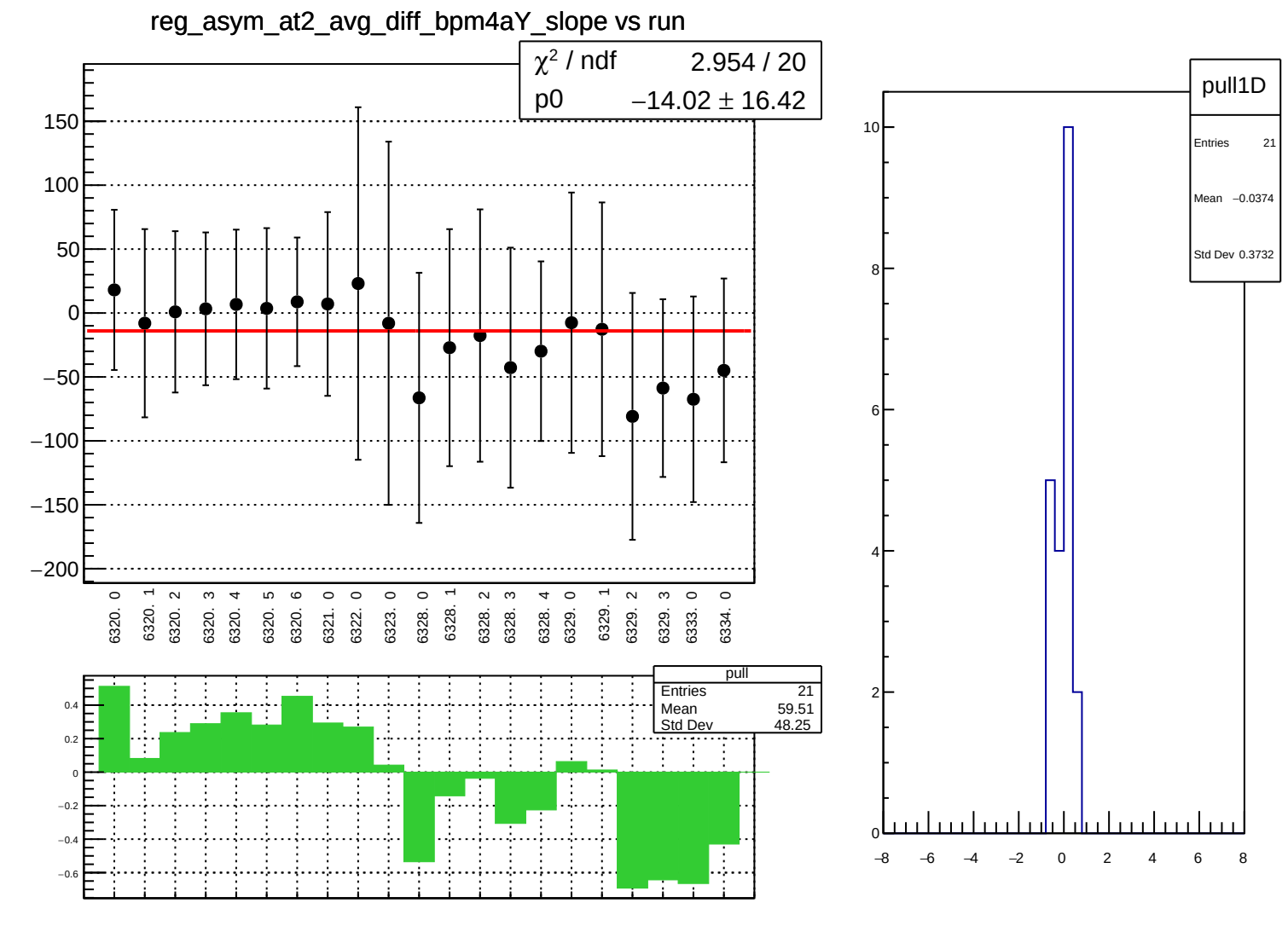

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.1 / 20
p0 0.6436 ± 3.119
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.62
Std Dev 23.46
1.5
1
0.5
0
−0.5
−1
−1.5

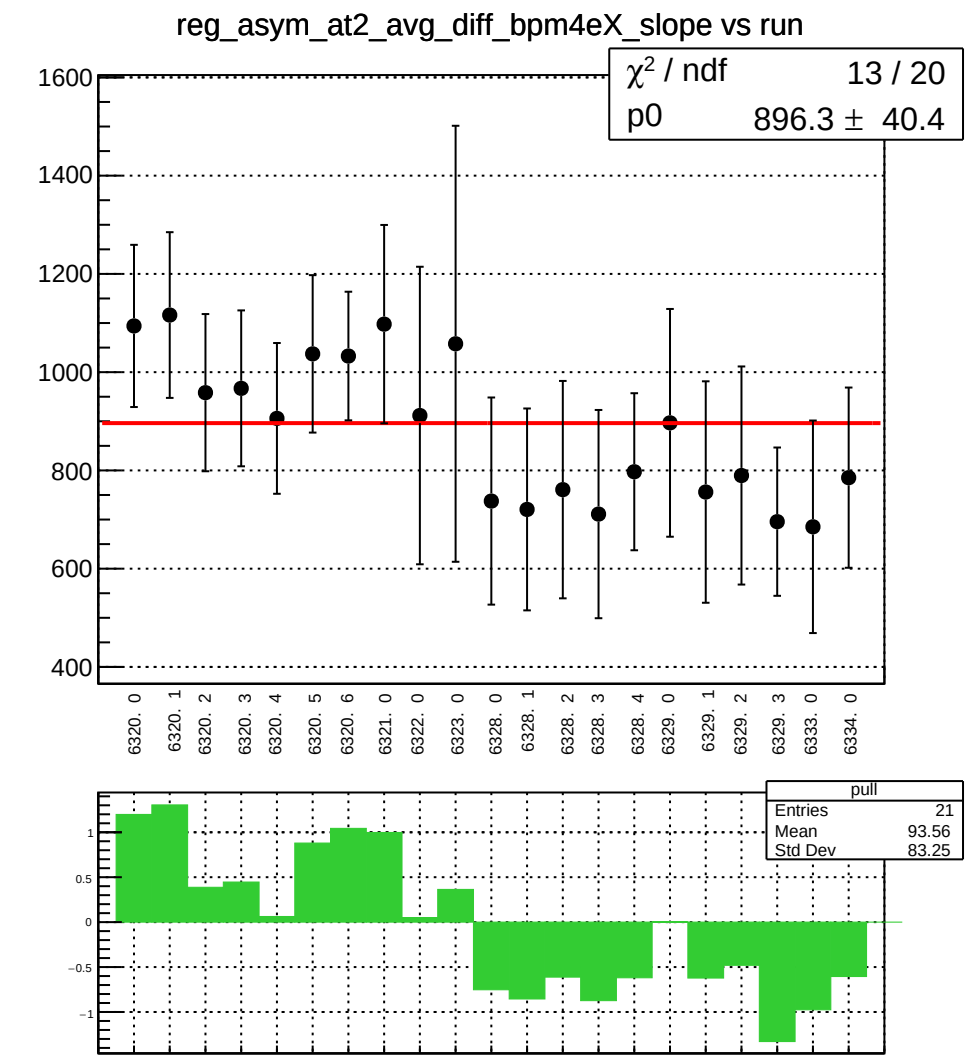

pull1D
Entries 21
Mean 0.05784
Std Dev 0.8459
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

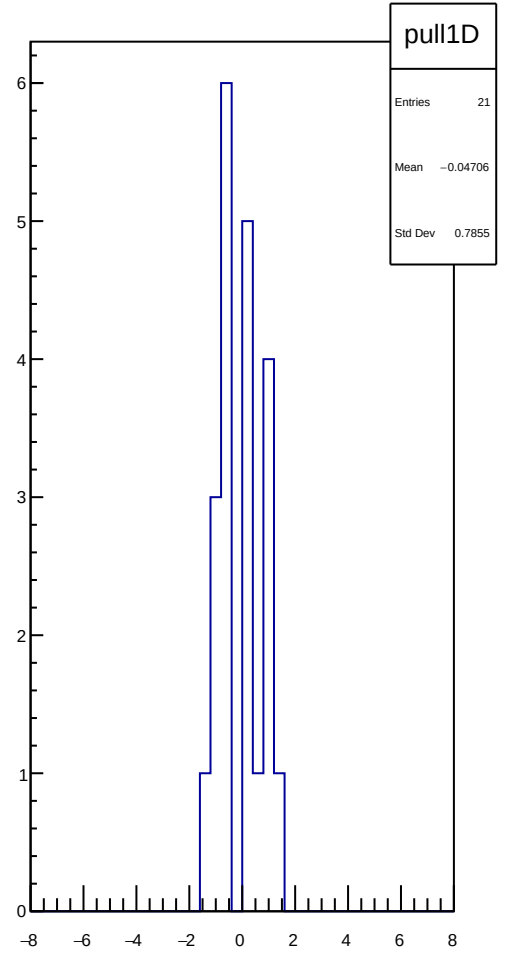

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 19.58 / 20
p0 5.127 ± 0.1743
11
10
9
8
7
6
5
4
3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 6.996
Std Dev 5.508
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.1155
Std Dev 0.9586
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

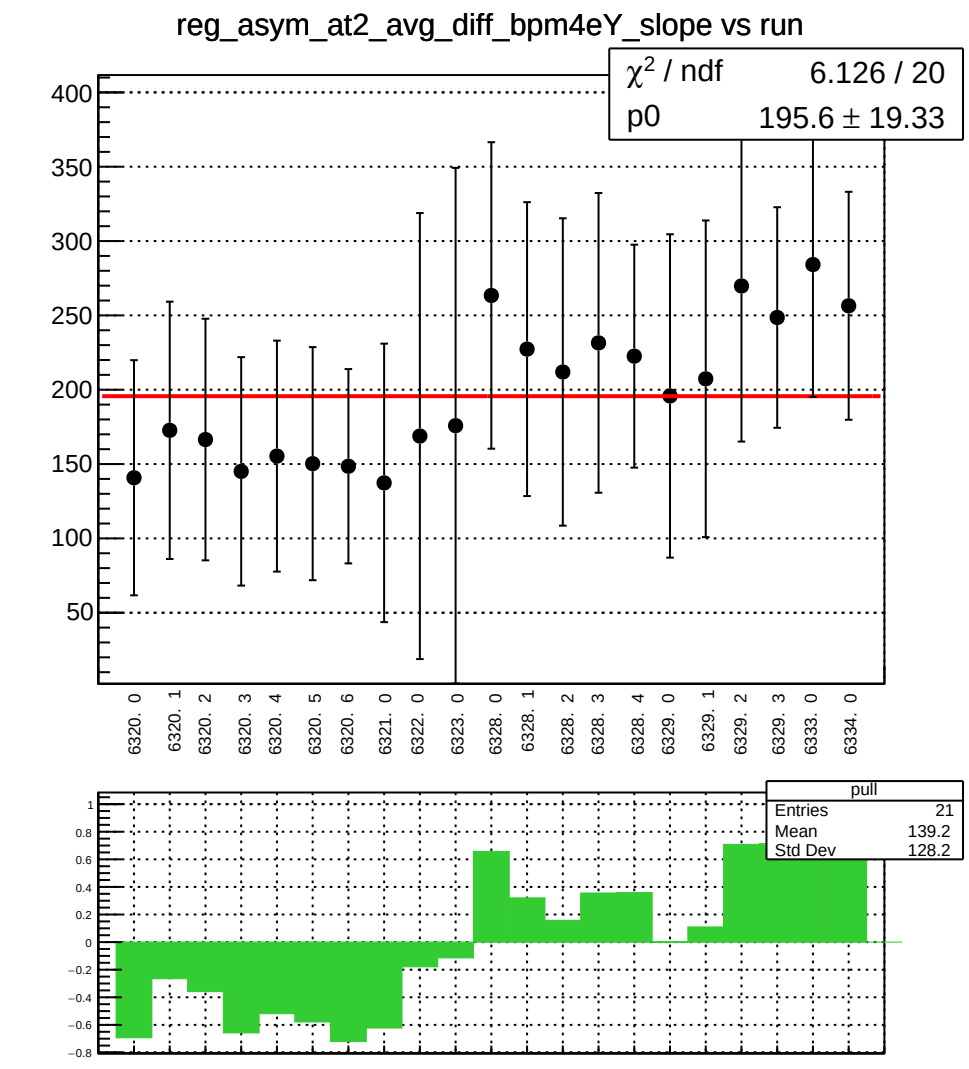

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.06 / 20
p0 −776.7 ± 37.26
−400
−600
−800
−1000
−1200
−1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 102
Std Dev 91.69
1
0.5
0
−0.5
−1

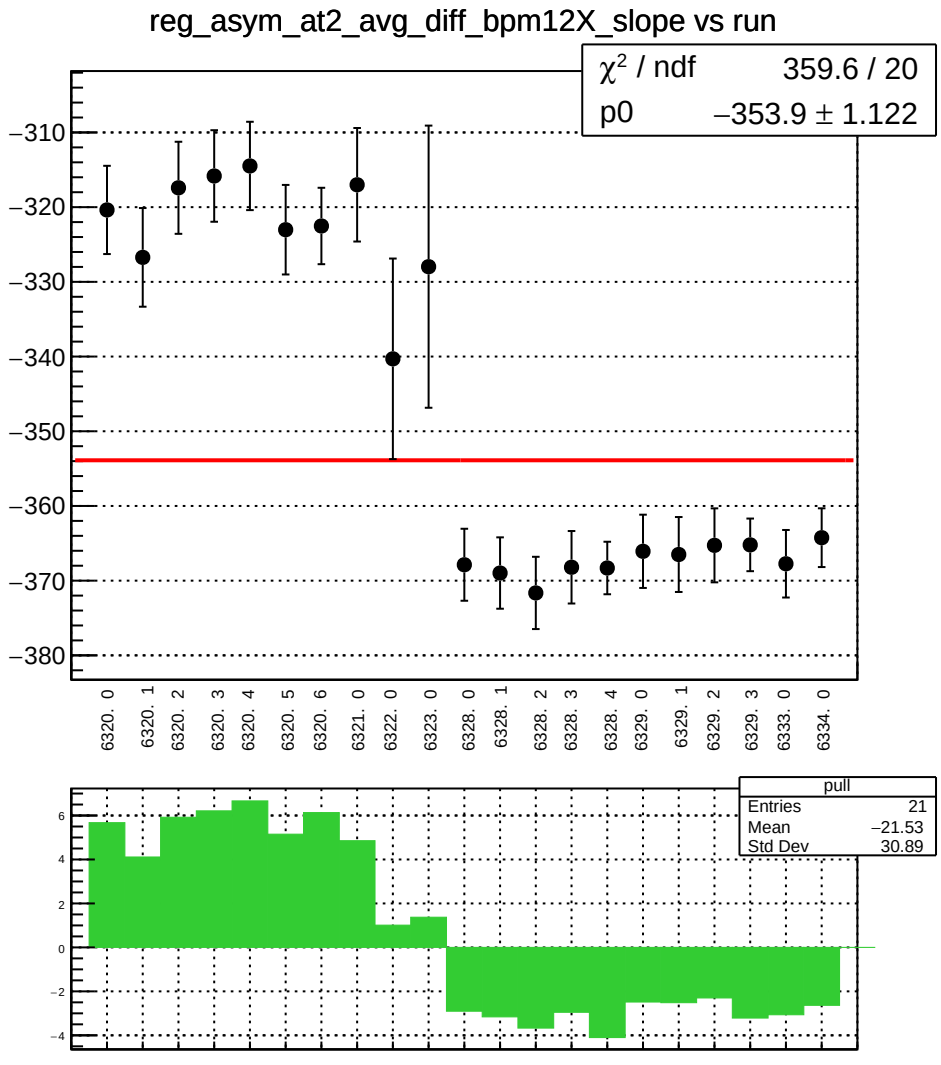

pull1D
Entries 21
Mean 0.04087
Std Dev 0.7567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

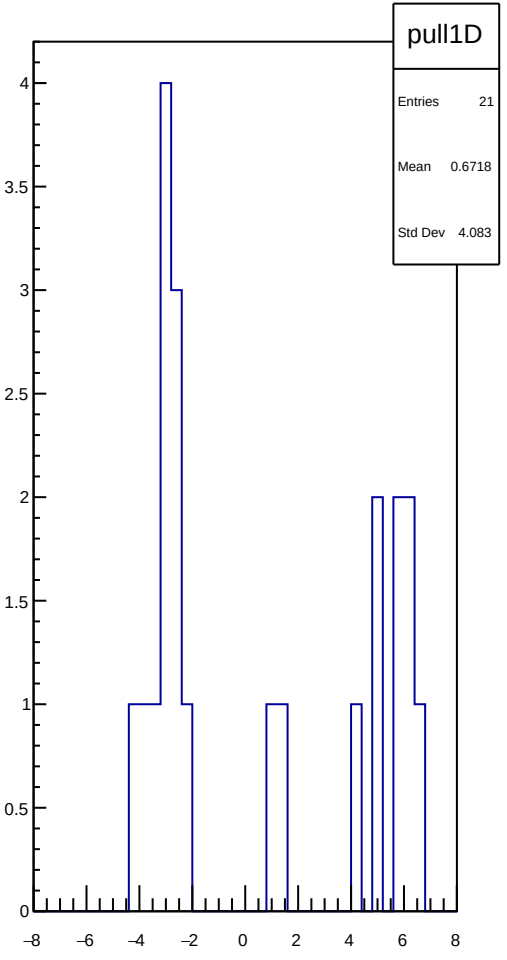

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.954 / 20
p0 −14.02 ± 16.42
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.51
Std Dev 48.25
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.0374
Std Dev 0.3732
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

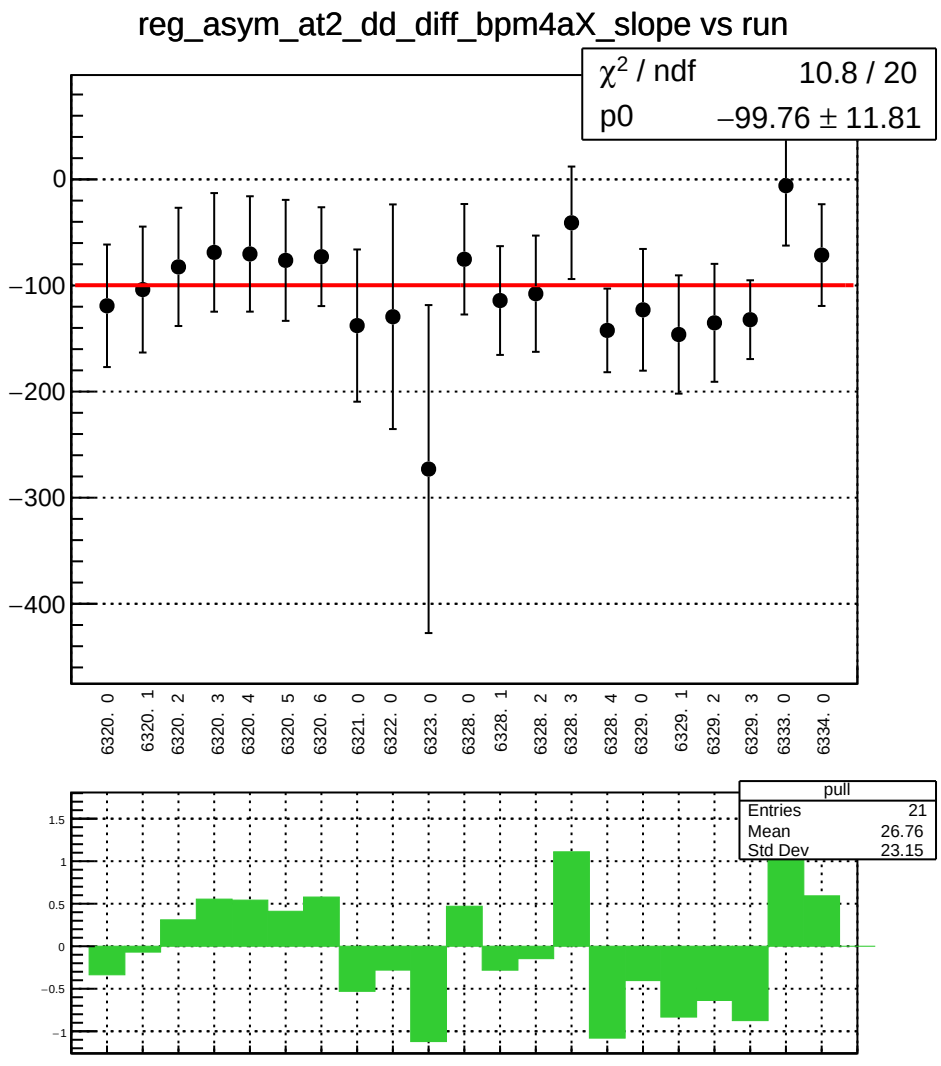

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13 / 20
p0 896.3 ± 40.4
1600
1400
1200
1000
800
600
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 93.56
Std Dev 83.25
1
0.5
0
−0.5
−1

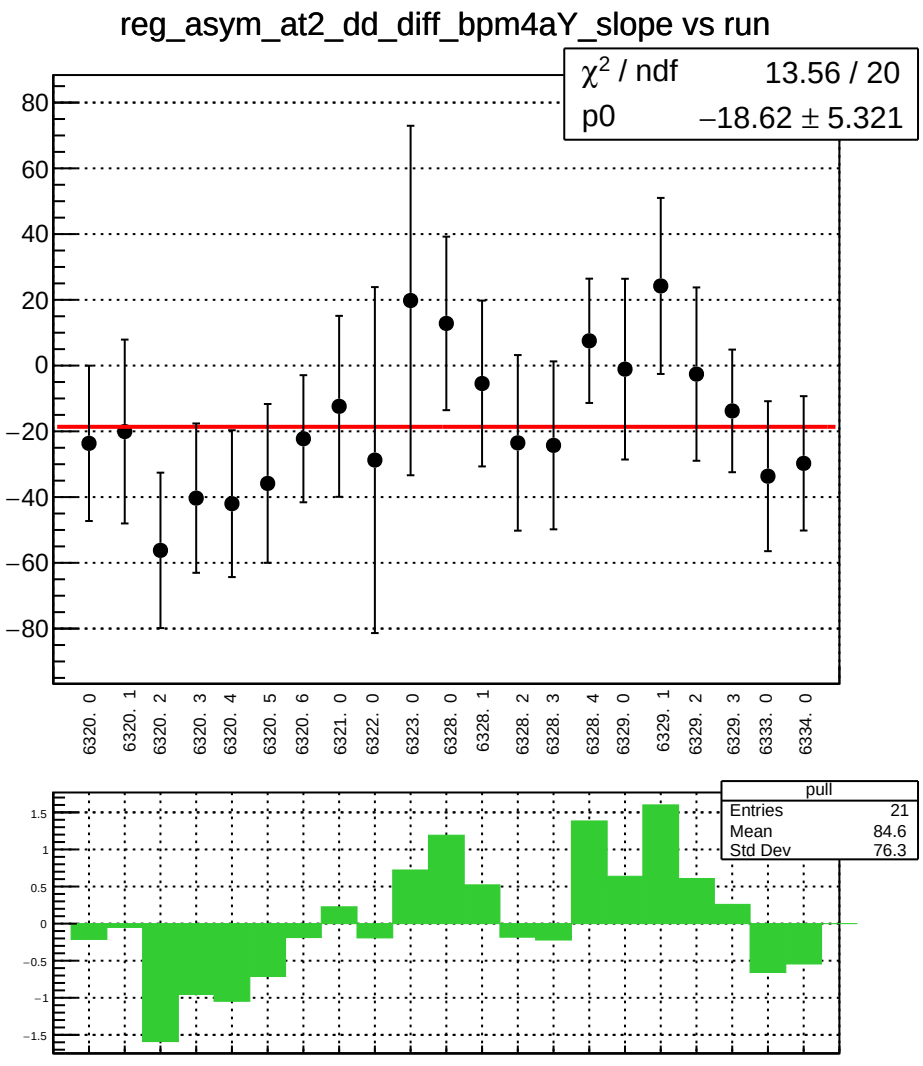

pull1D
Entries 21
Mean −0.04706
Std Dev 0.7855
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

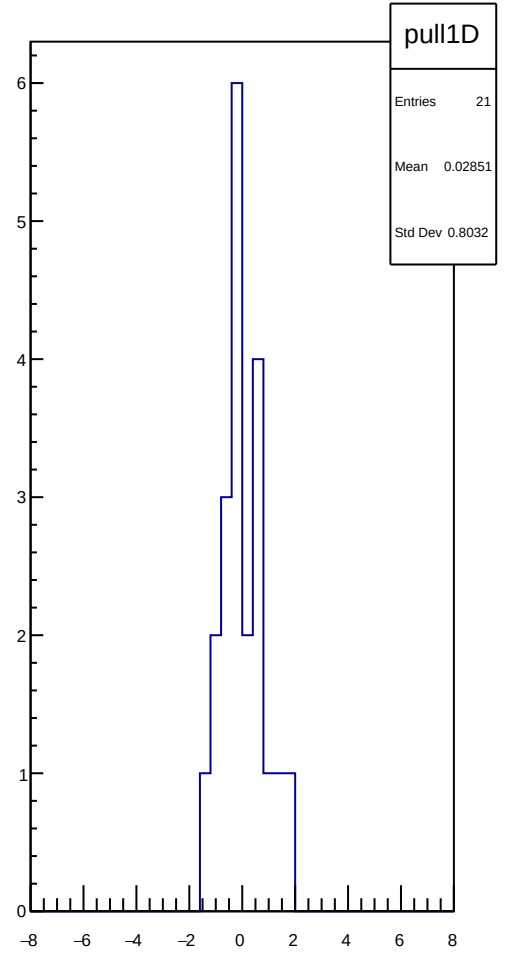

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.126 / 20
p0 195.6 ± 19.33
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 139.2
Std Dev 128.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.02197
Std Dev 0.5396
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

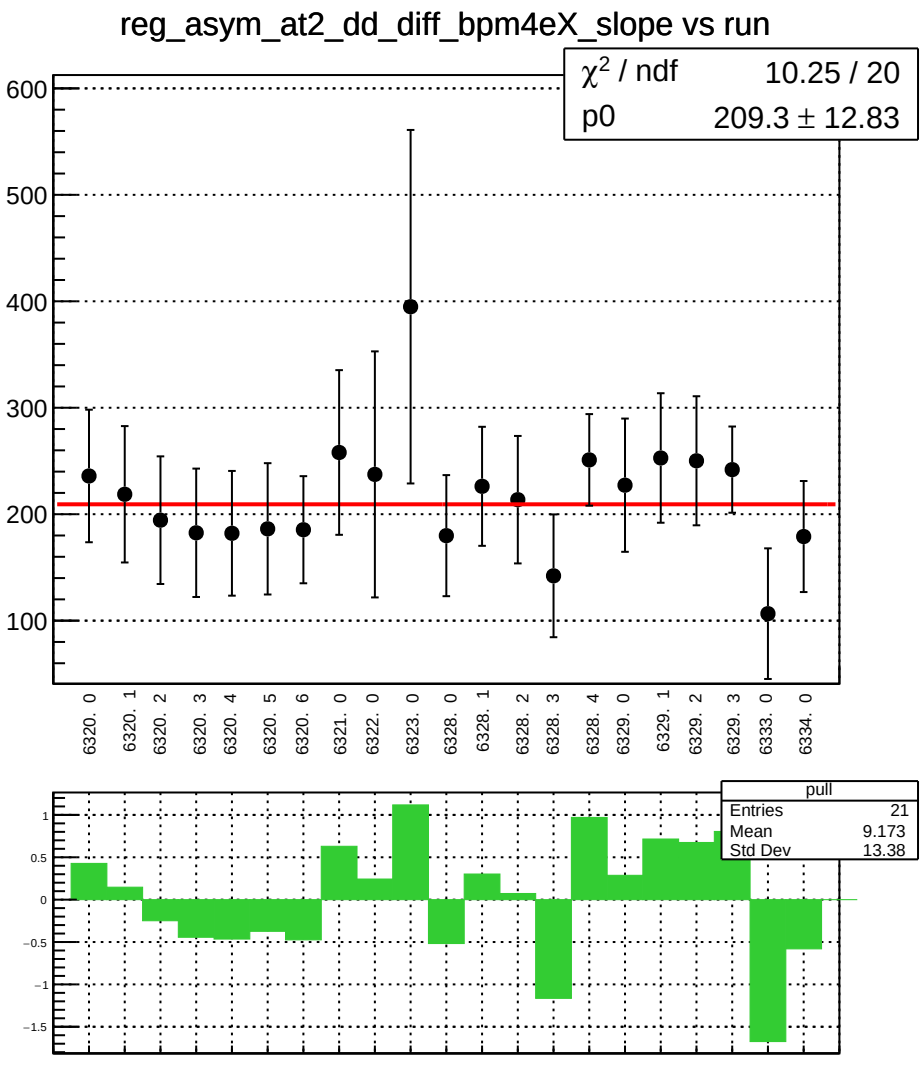

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 359.6 / 20
p0 −353.9 ± 1.122
−310
−320
−330
−340
−350
−360
−370
−380
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.53
Std Dev 30.89
6
4
2
0
−2
−4

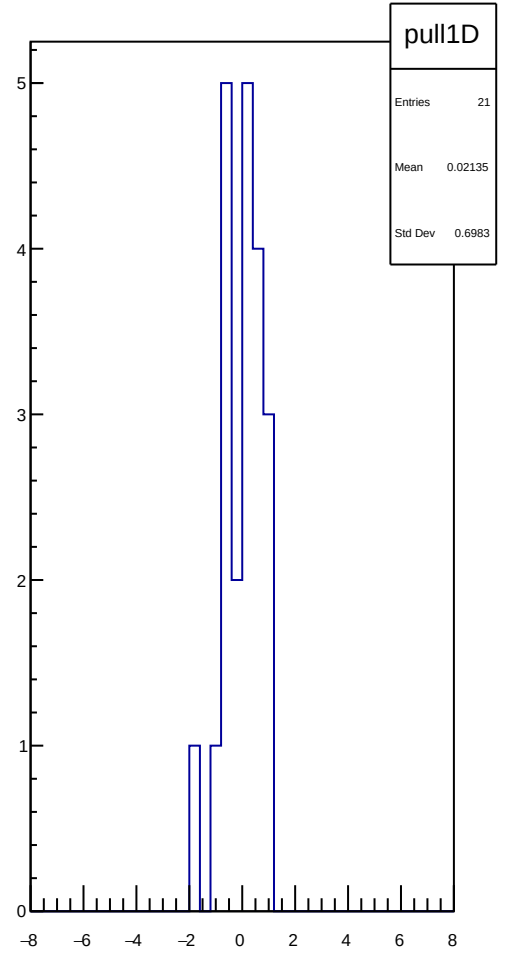

pull1D
Entries 21
Mean 0.6718
Std Dev 4.083
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

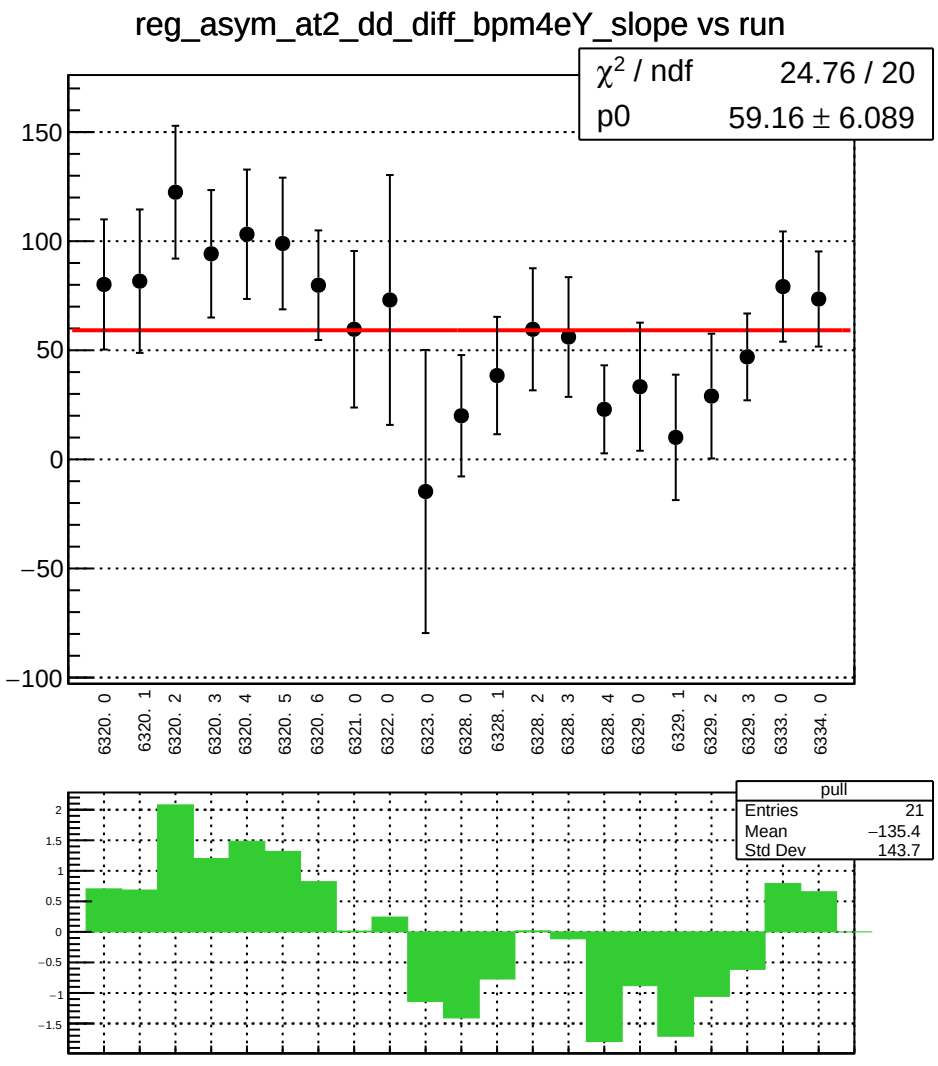

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.8 / 20
p0 −99.76 ± 11.81
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 26.76
Std Dev 23.15
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.01724
Std Dev 0.7168
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

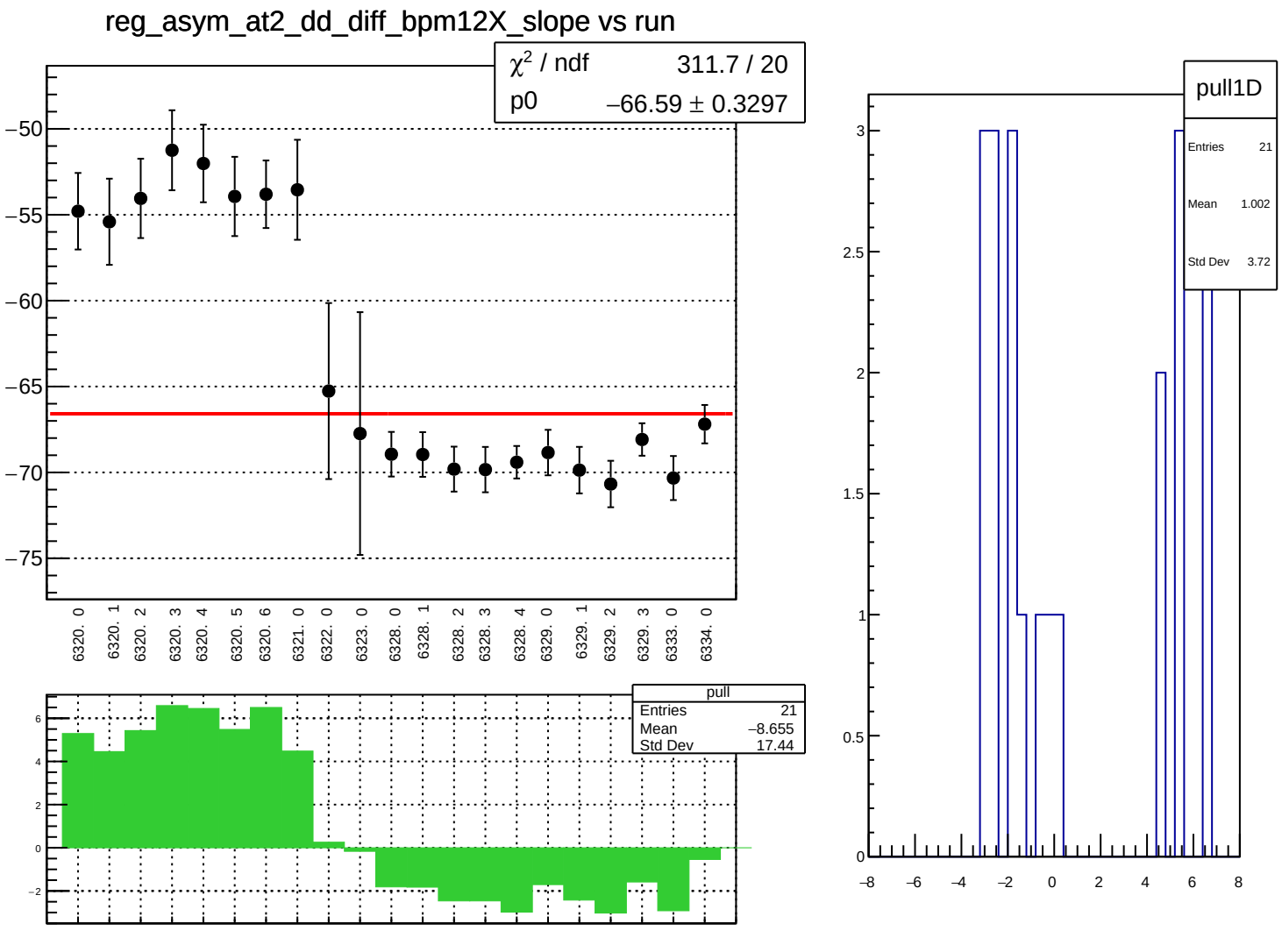

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.56 / 20
p0 −18.62 ± 5.321
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 84.6
Std Dev 76.3
1.5
1
0.5
0
−0.5
−1
−1.5

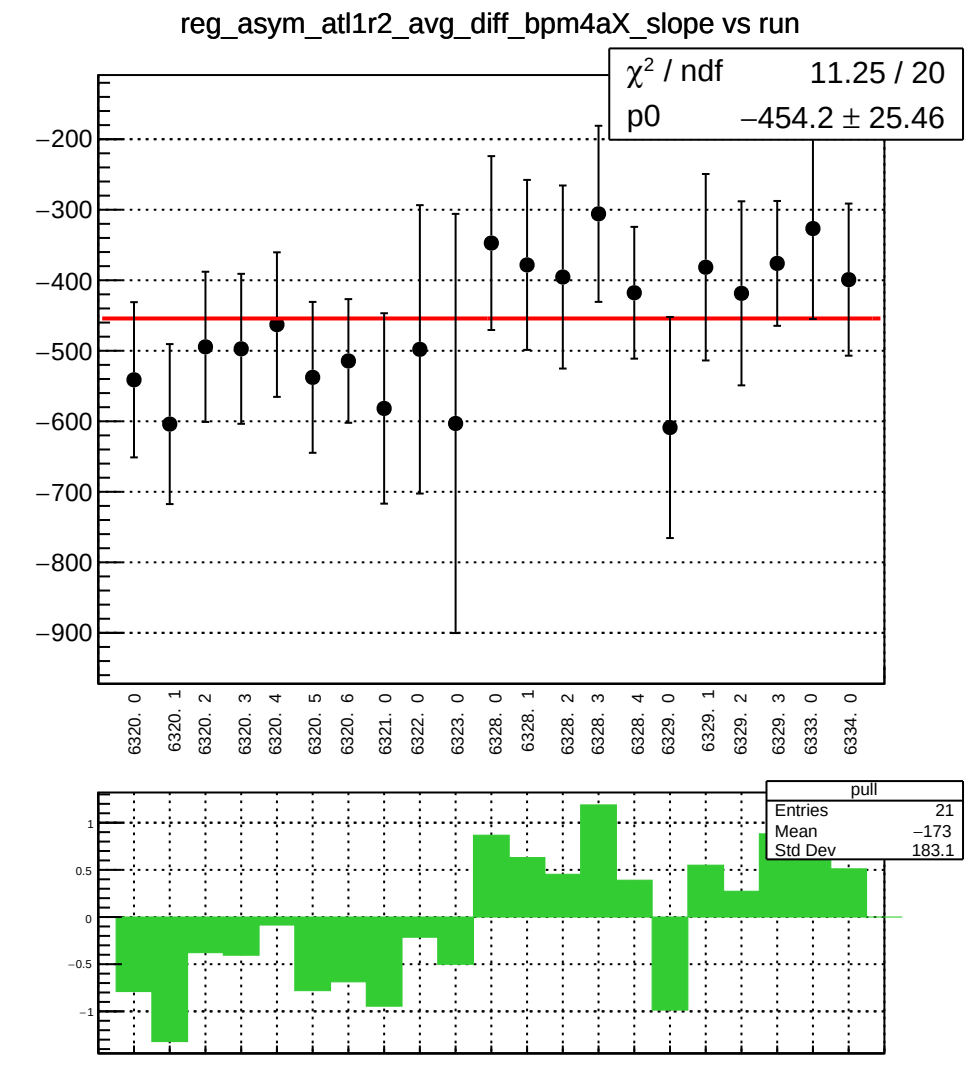

pull1D
Entries 21
Mean 0.02851
Std Dev 0.8032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

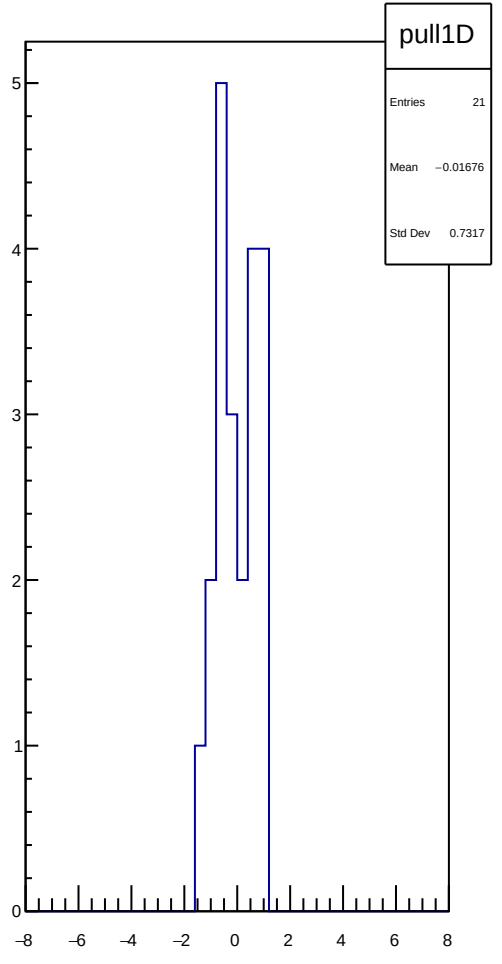

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.25 / 20
p0 209.3 ± 12.83
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.173
Std Dev 13.38
1
0.5
0
−0.5
−1
−1.5

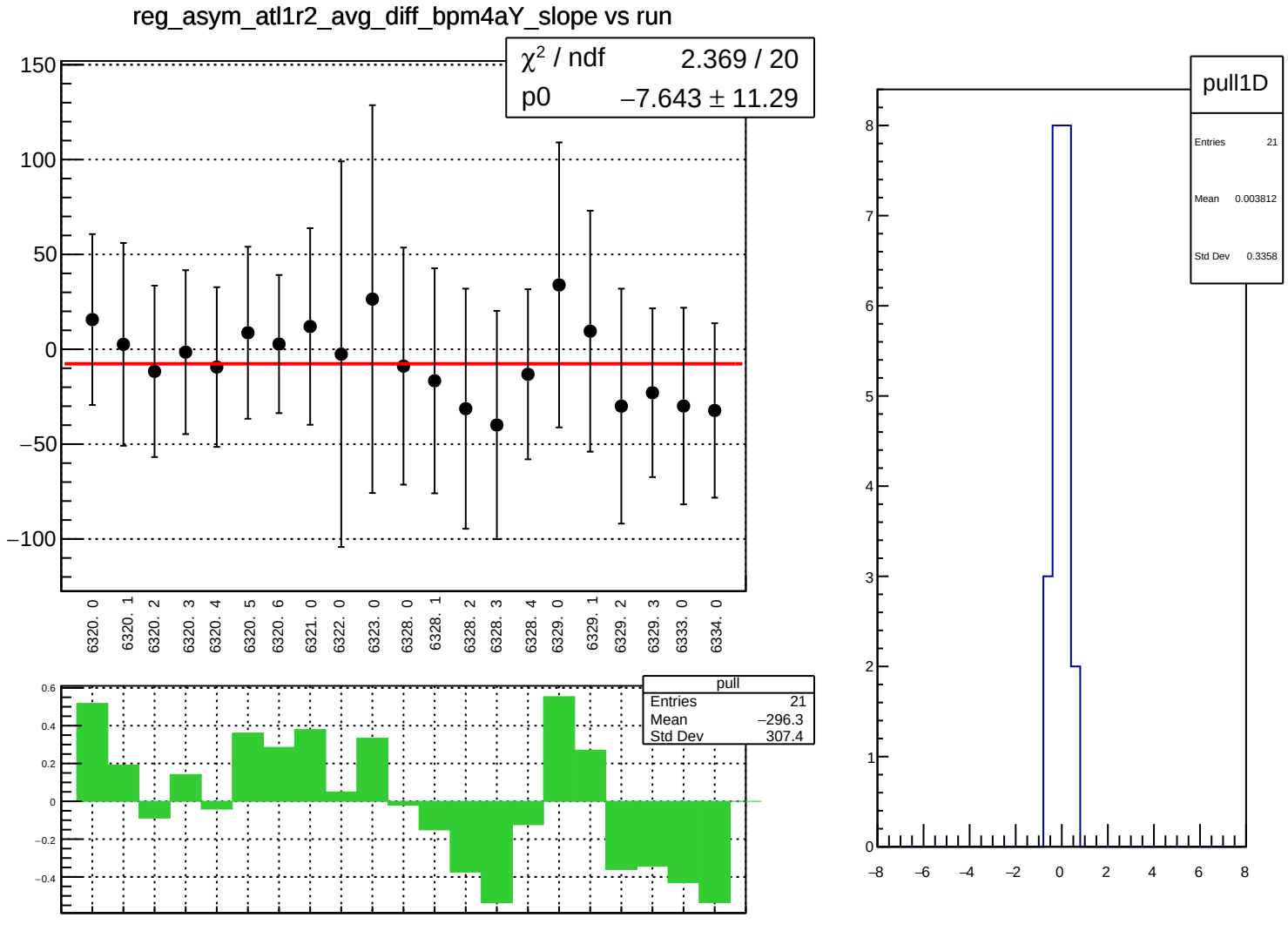

pull1D
Entries 21
Mean 0.02135
Std Dev 0.6983
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

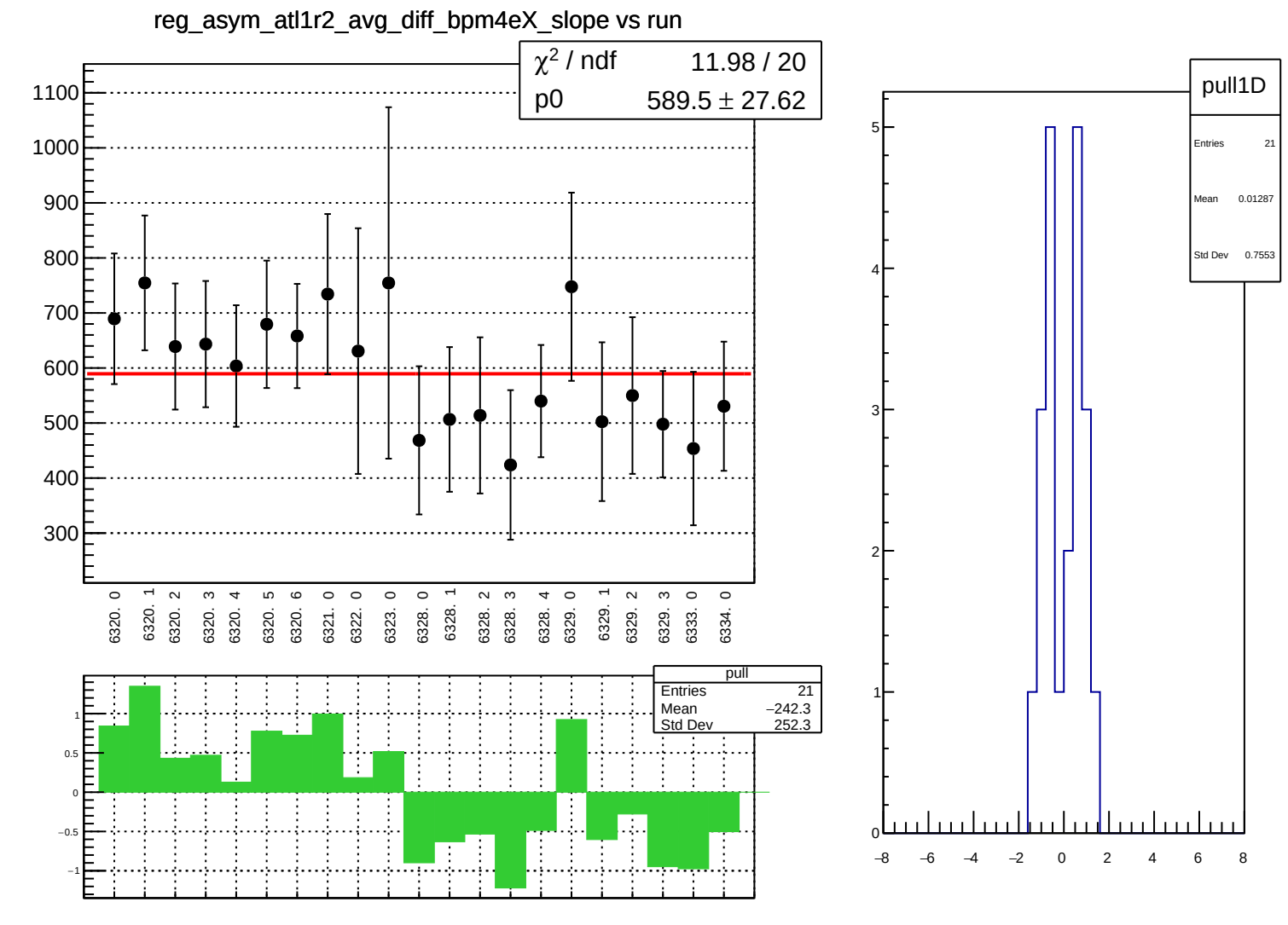

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.76 / 20
p0 59.16 ± 6.089
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −135.4
Std Dev 143.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.02543
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

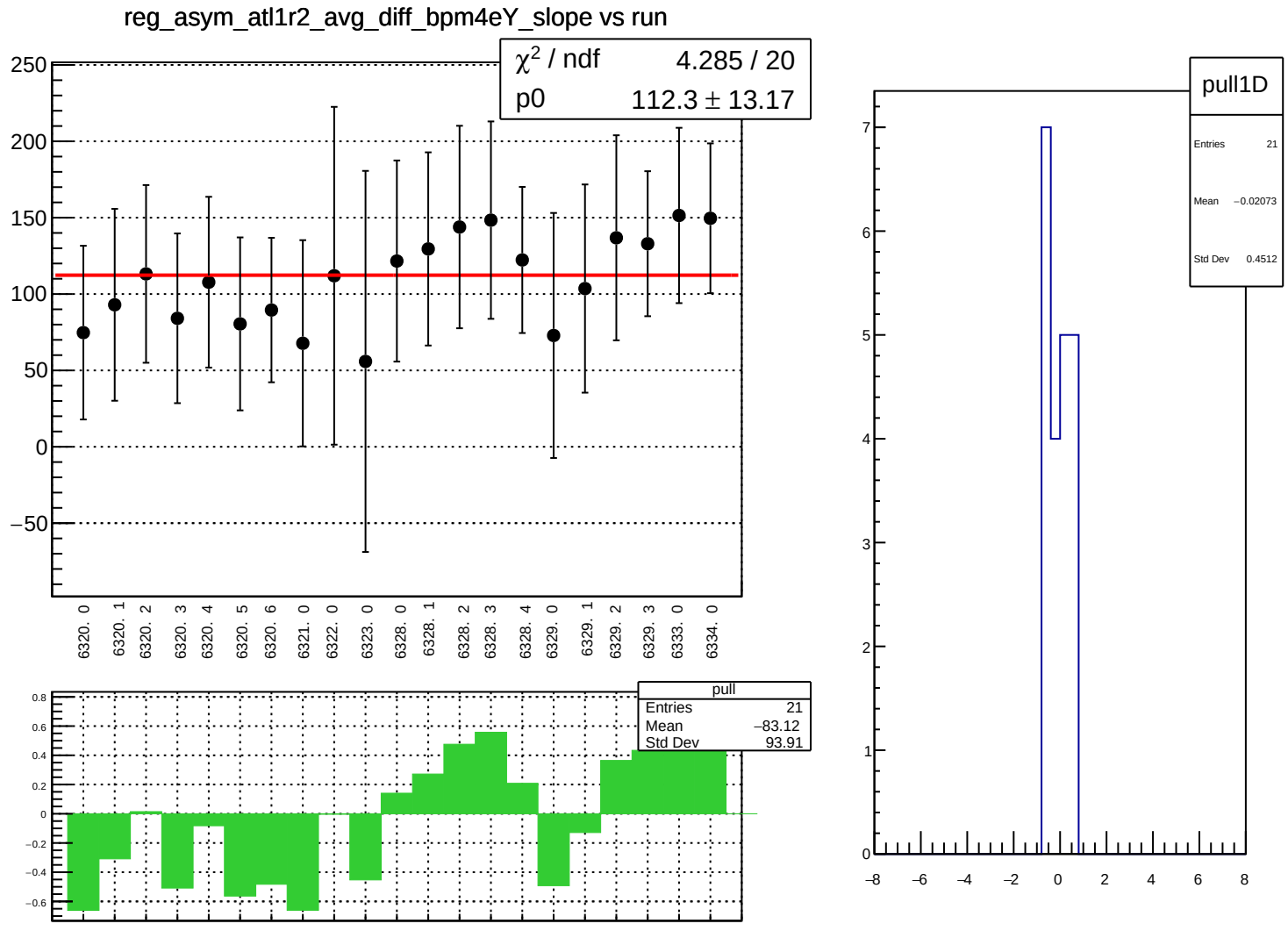

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 311.7 / 20
p0 −66.59 ± 0.3297
−50
−55
−60
−65
−70
−75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −8.655
Std Dev 17.44
6
4
2
0
−2
pull1D
Entries 21
Mean 1.002
Std Dev 3.72
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

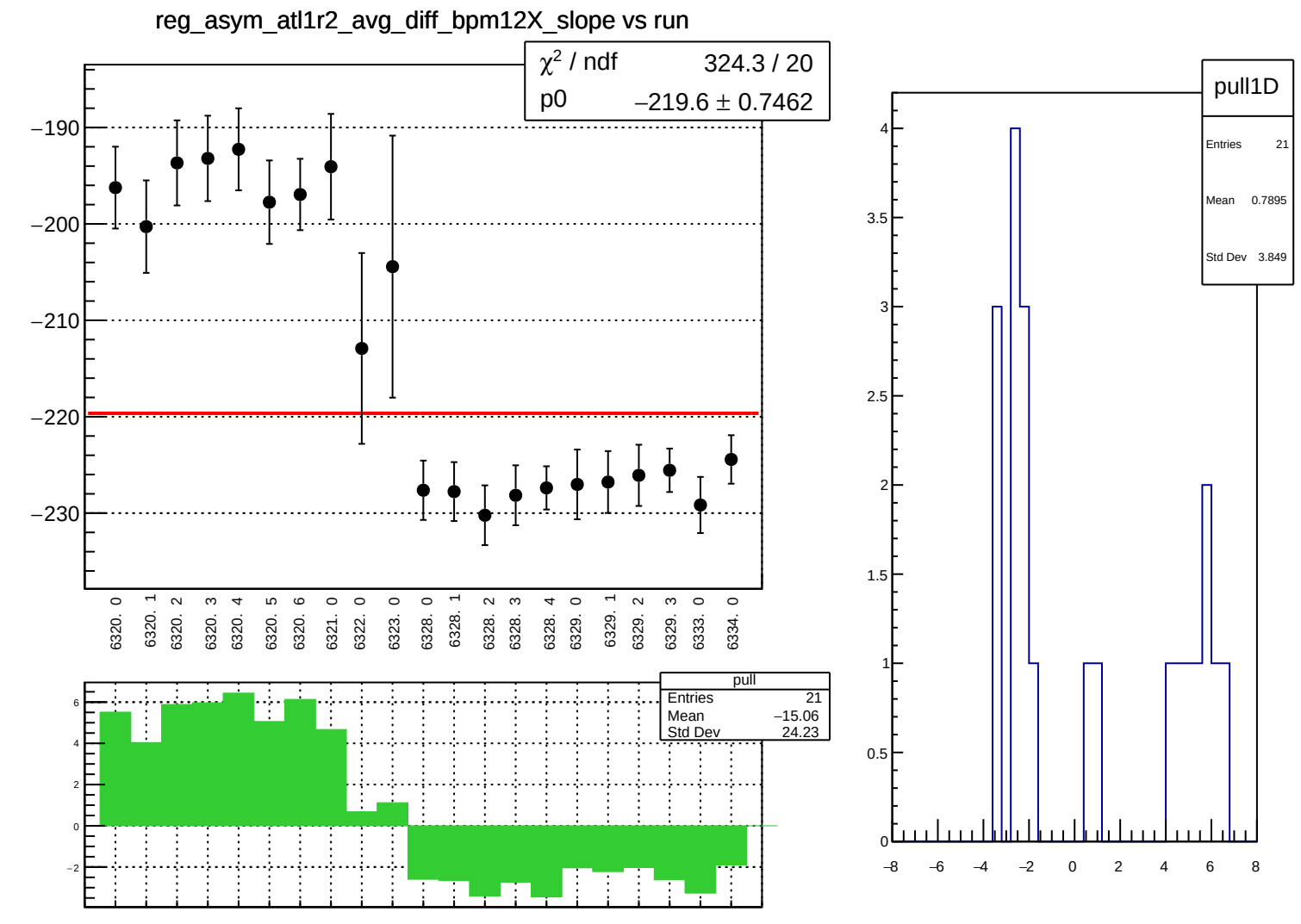

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.25 / 20
p0 −454.2 ± 25.46
−200
−300
−400
−500
−600
−700
−800
−900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −173
Std Dev 183.1
1
0.5
0
−0.5
−1

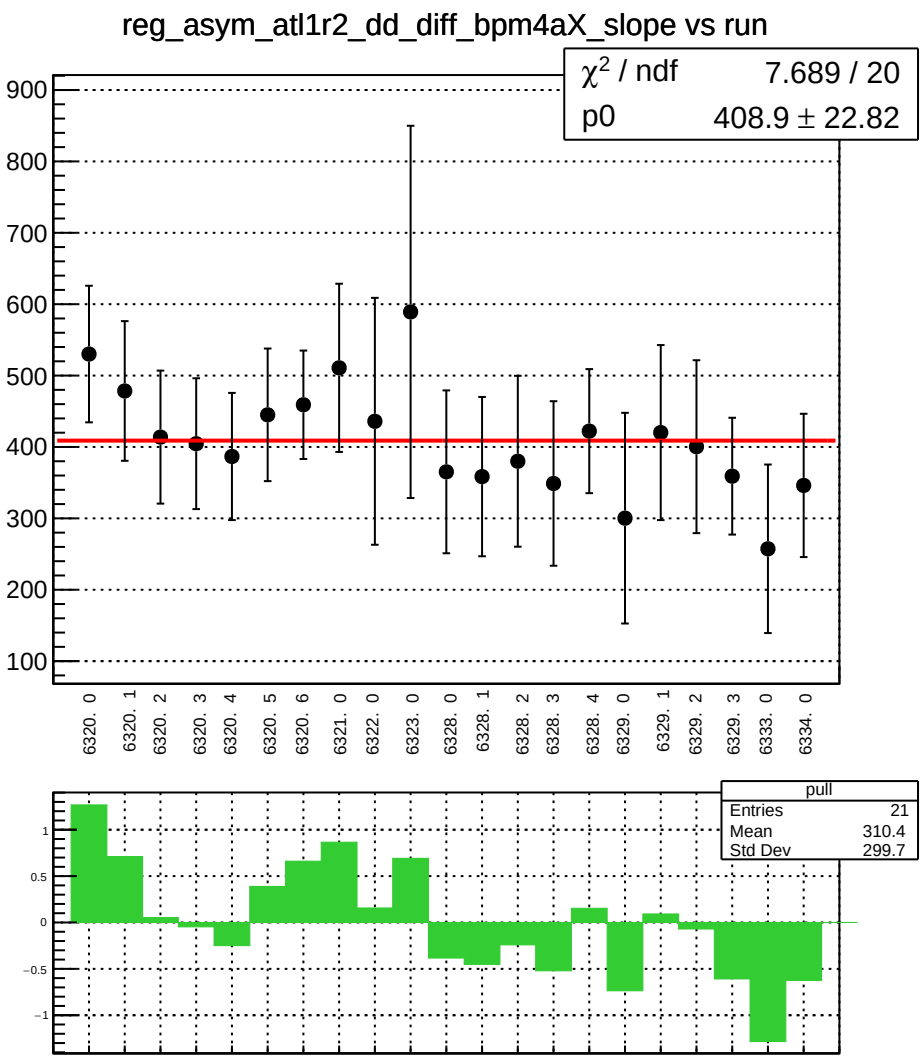

pull1D
Entries 21
Mean −0.01676
Std Dev 0.7317
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

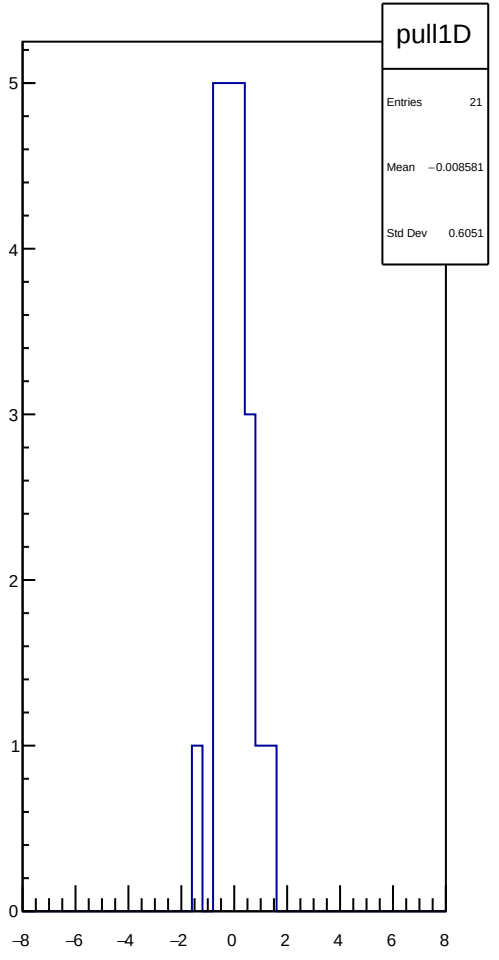

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.369 / 20
p0 −7.643 ± 11.29
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −296.3
Std Dev 307.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.003812
Std Dev 0.3358
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

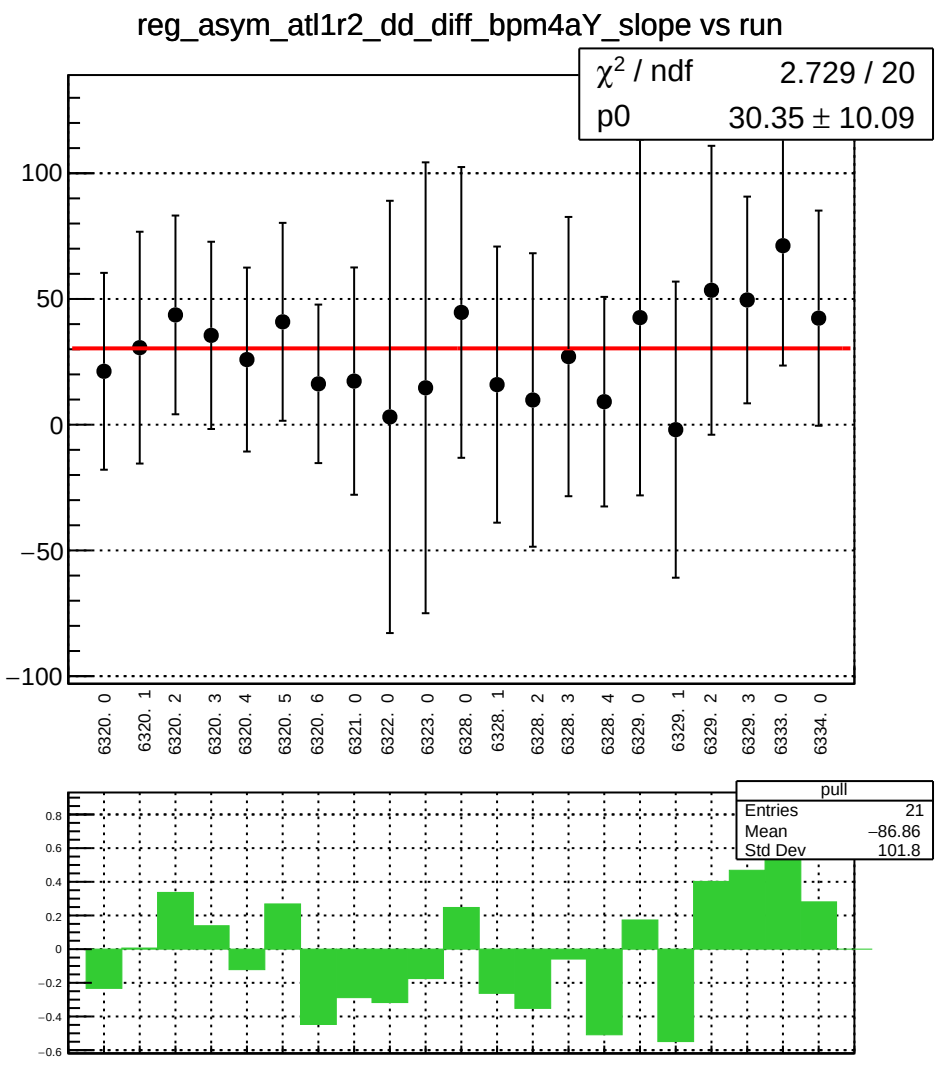

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.98 / 20
p0 589.5 ± 27.62
1100
1000
900
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −242.3
Std Dev 252.3
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.01287
Std Dev 0.7553
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

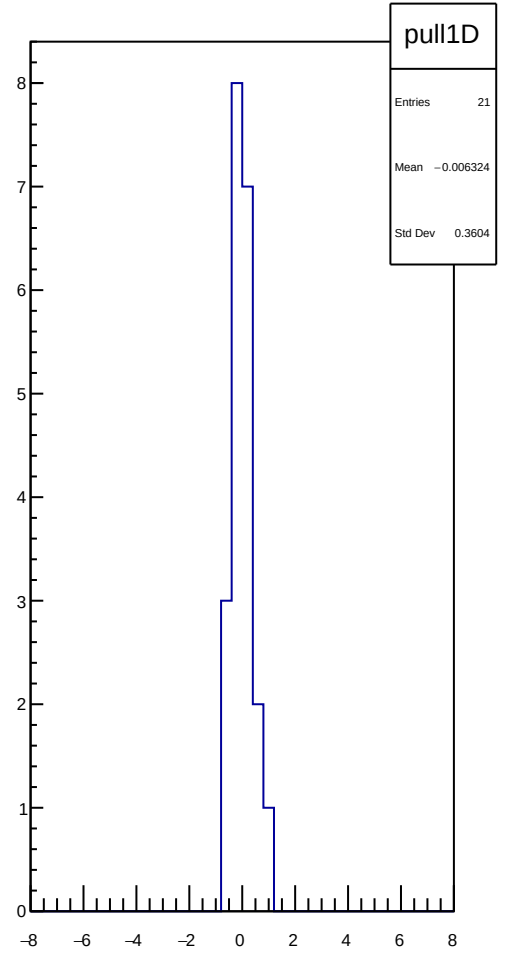

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.285 / 20
p0 112.3 ± 13.17
250
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −83.12
Std Dev 93.91
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.02073
Std Dev 0.4512
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

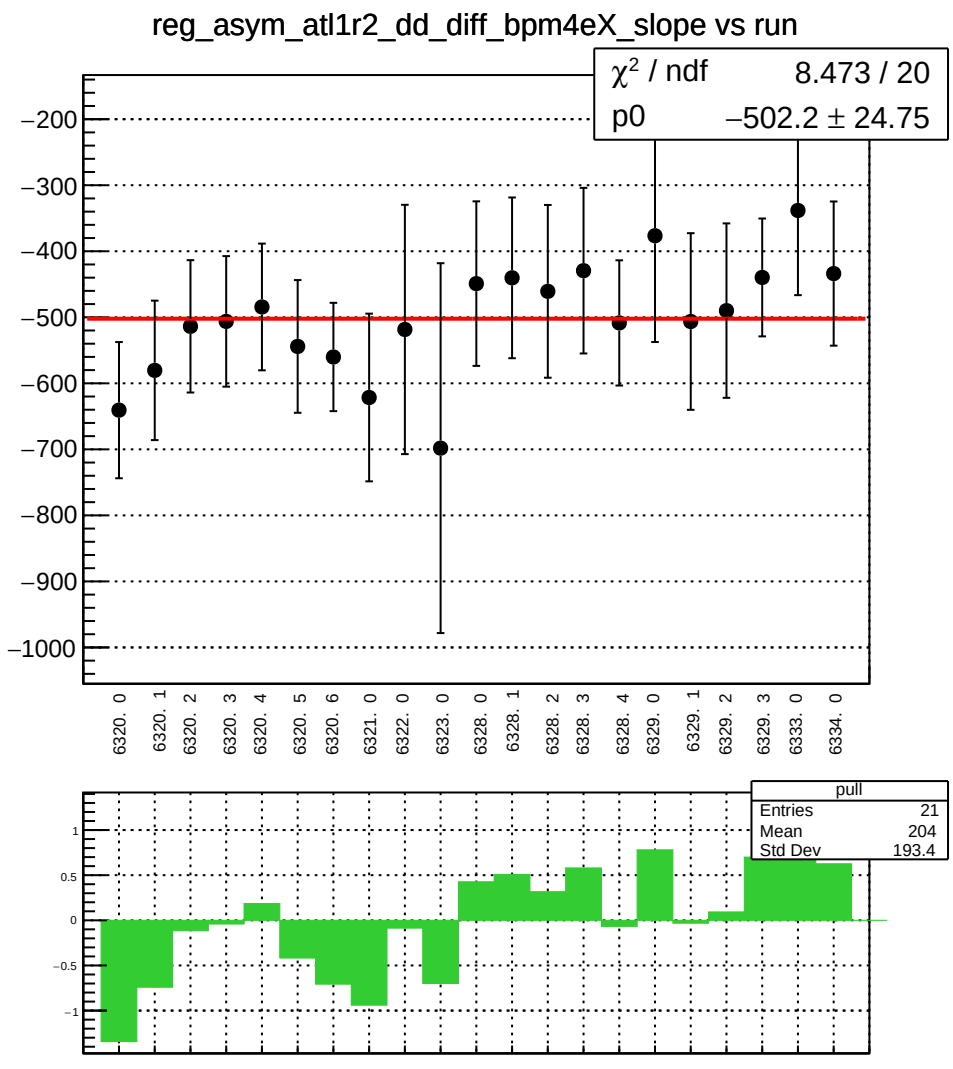

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 324.3 / 20
p0 −219.6 ± 0.7462
−190
−200
−210
−220
−230
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.06
Std Dev 24.23
6
4
2
0
−2
pull1D
Entries 21
Mean 0.7895
Std Dev 3.849
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

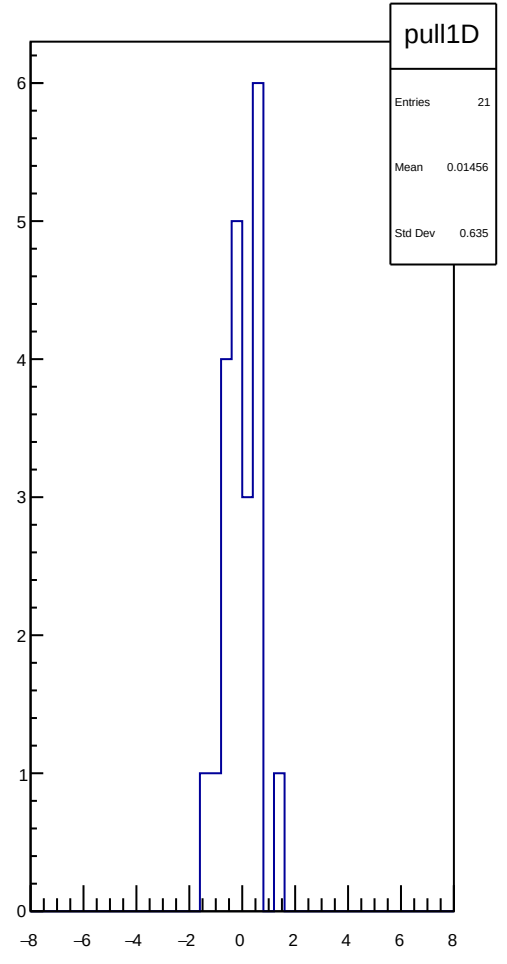

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.689 / 20
p0 408.9 ± 22.82
900
800
700
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 310.4
Std Dev 299.7
1
0.5
0
−0.5
−1

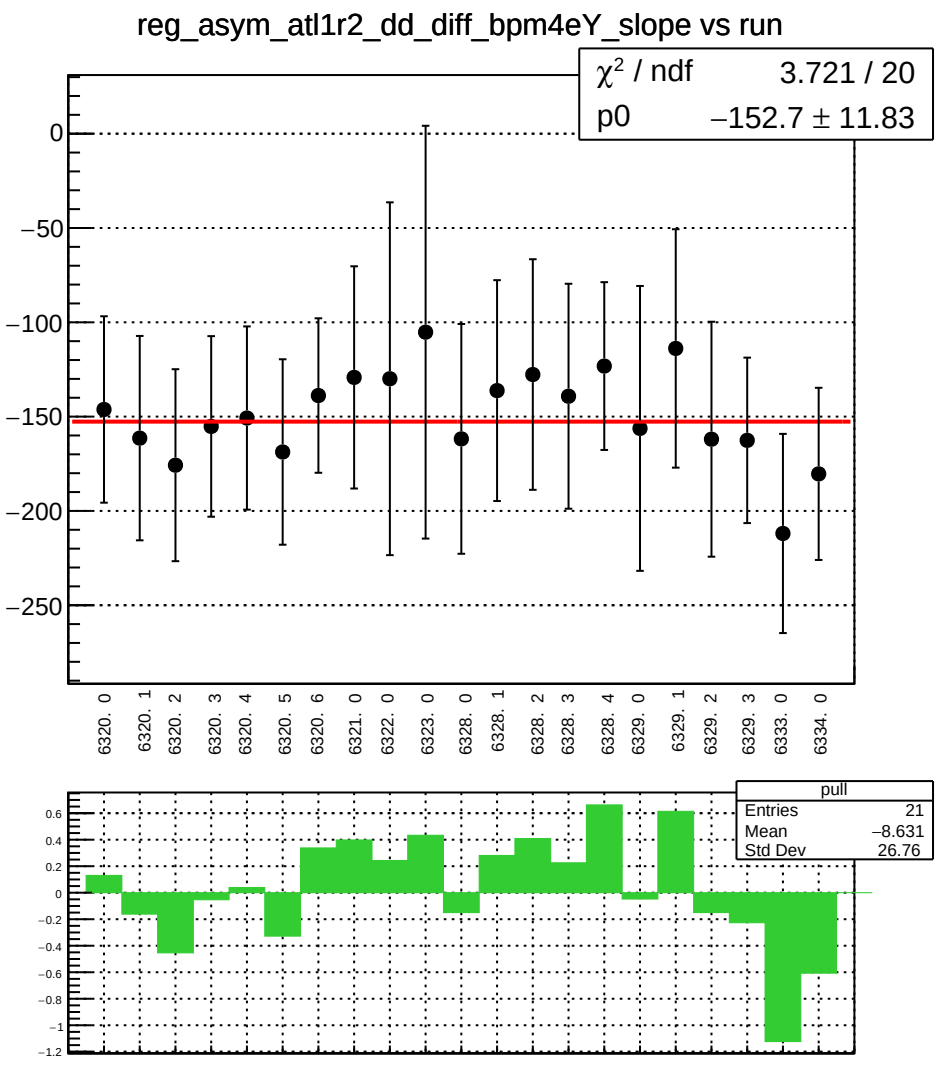

pull1D
Entries 21
Mean −0.008581
Std Dev 0.6051
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

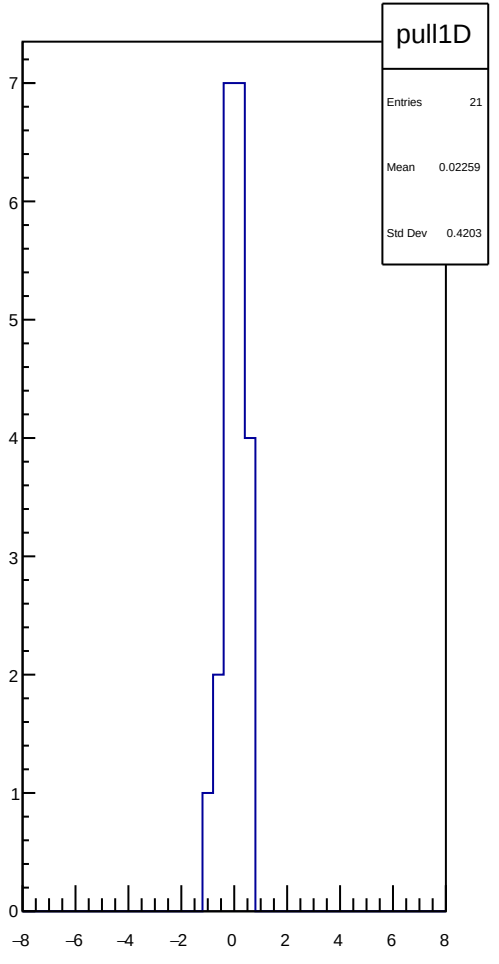

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.729 / 20
p0 30.35 ± 10.09
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −86.86
Std Dev 101.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

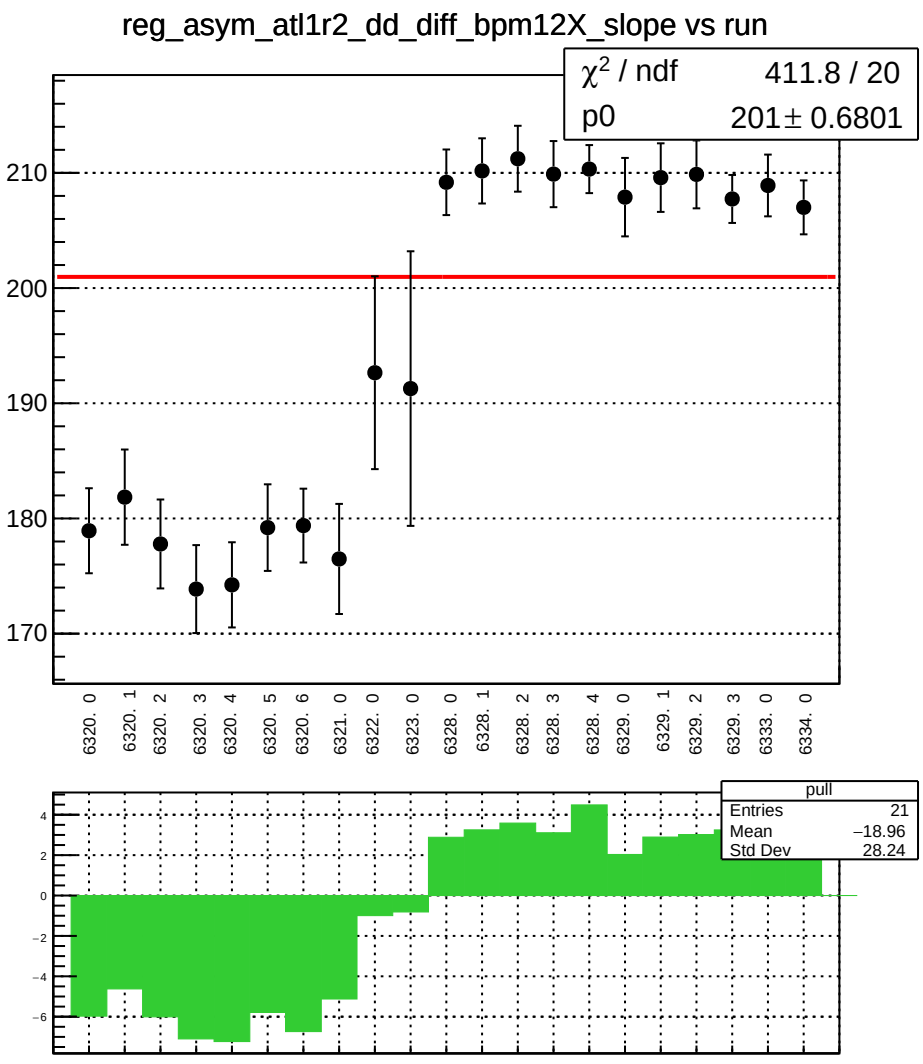

pull1D
Entries 21
Mean −0.006324
Std Dev 0.3604
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

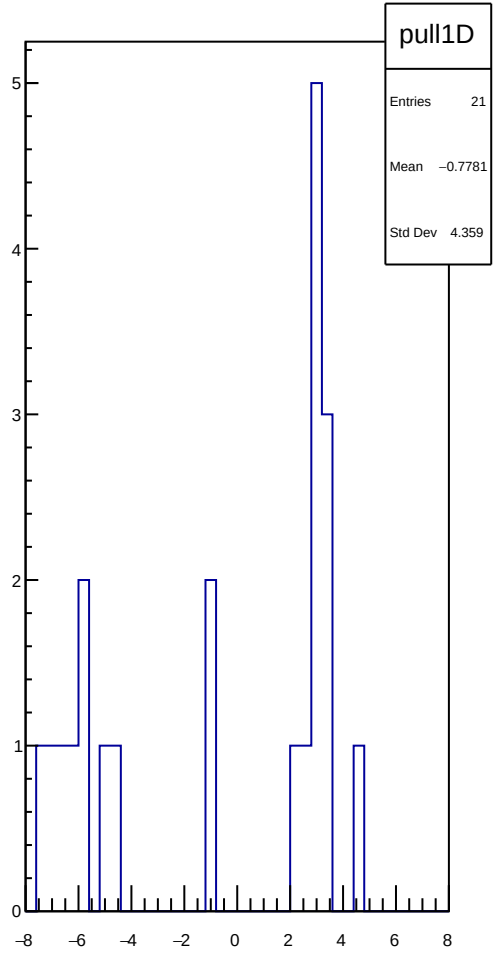

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.473 / 20
p0 −502.2 ± 24.75
−200
−300
−400
−500
−600
−700
−800
−900
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 204
Std Dev 193.4
1
0.5
0
−0.5
−1

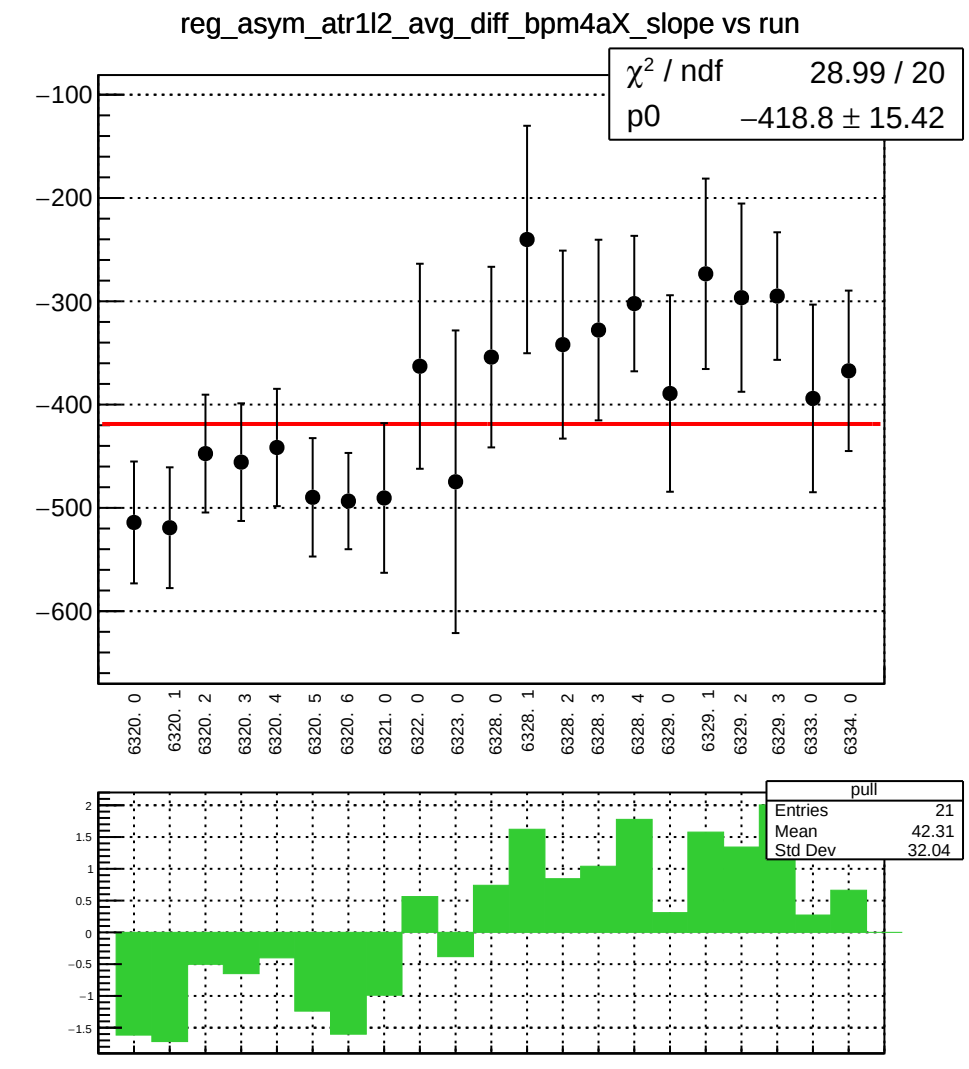

pull1D
Entries 21
Mean 0.01456
Std Dev 0.635
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

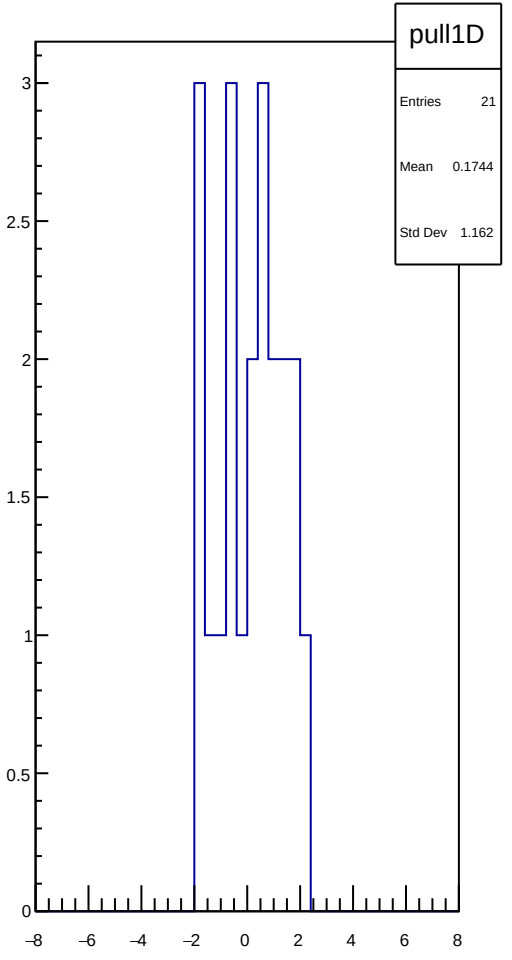

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.721 / 20
p0 −152.7 ± 11.83
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −8.631
Std Dev 26.76
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

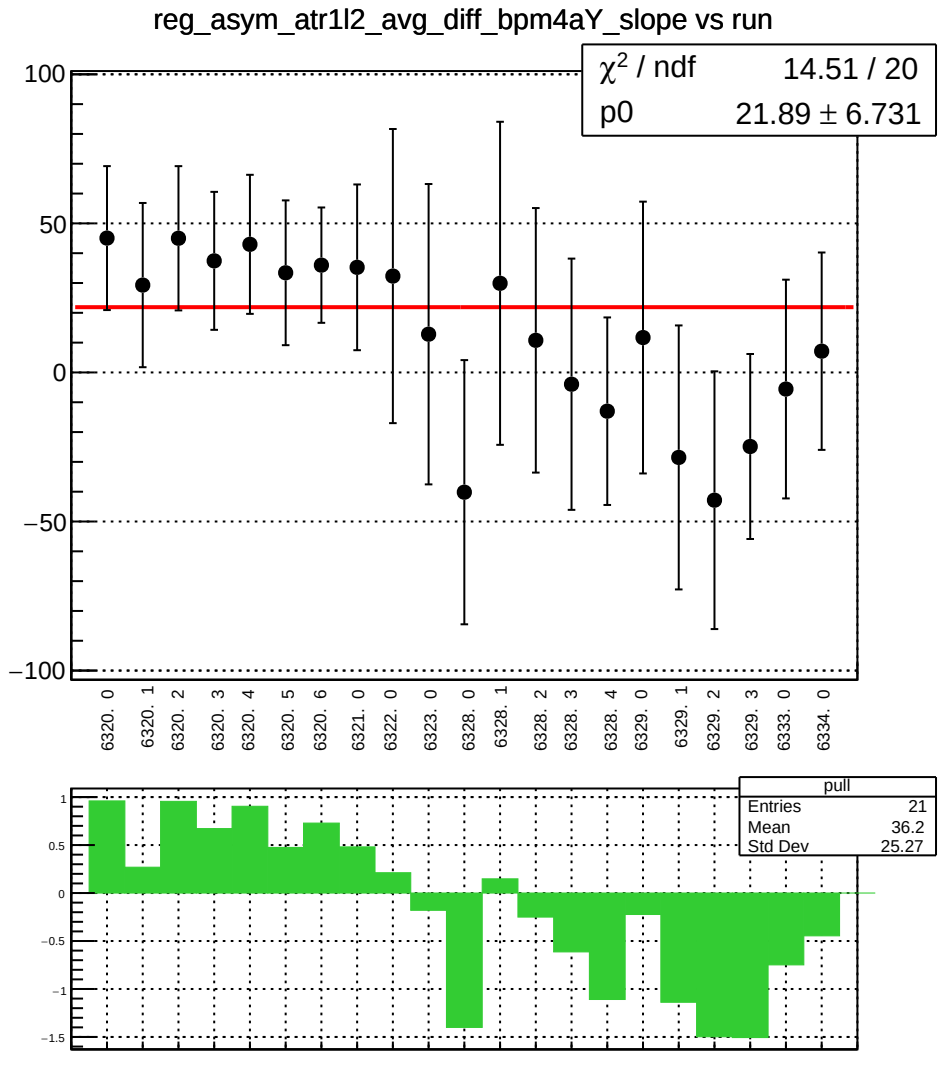

pull1D
Entries 21
Mean 0.02259
Std Dev 0.4203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

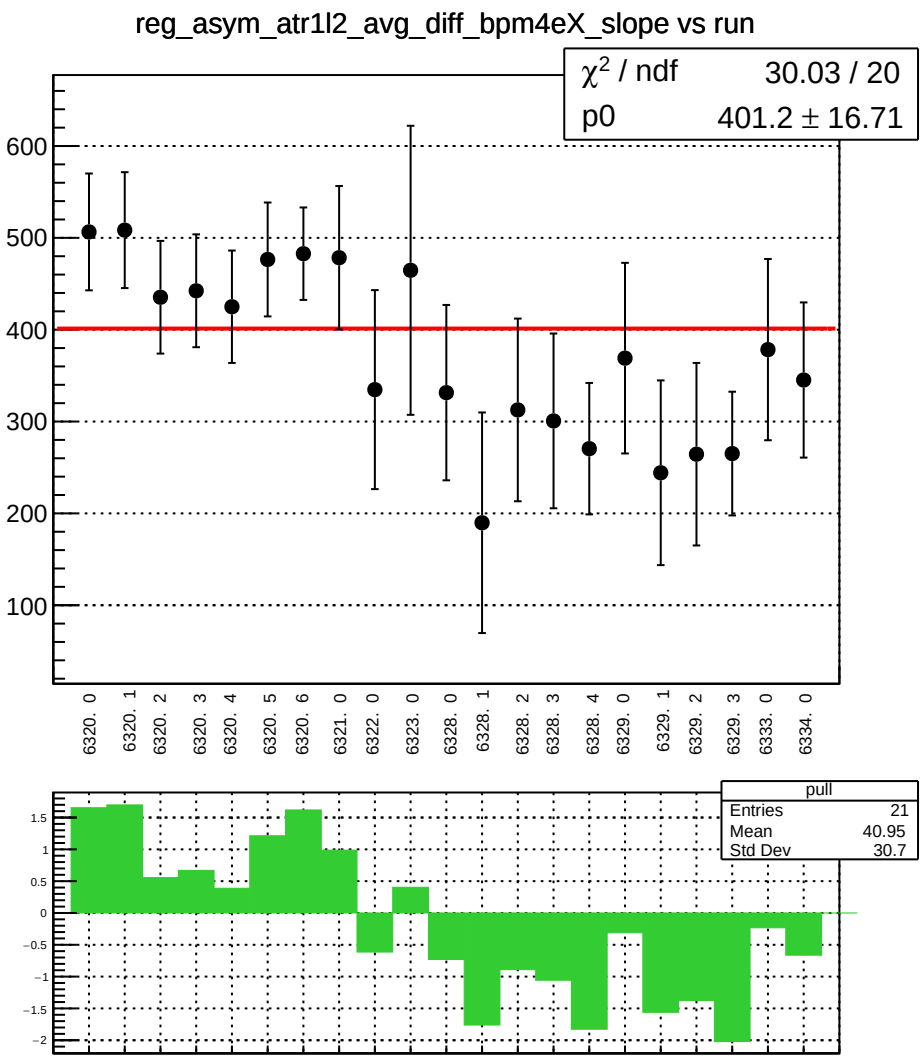

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 411.8 / 20
p0 201 ± 0.6801
210
200
190
180
170
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.96
Std Dev 28.24
4
2
0
−2
−4
−6

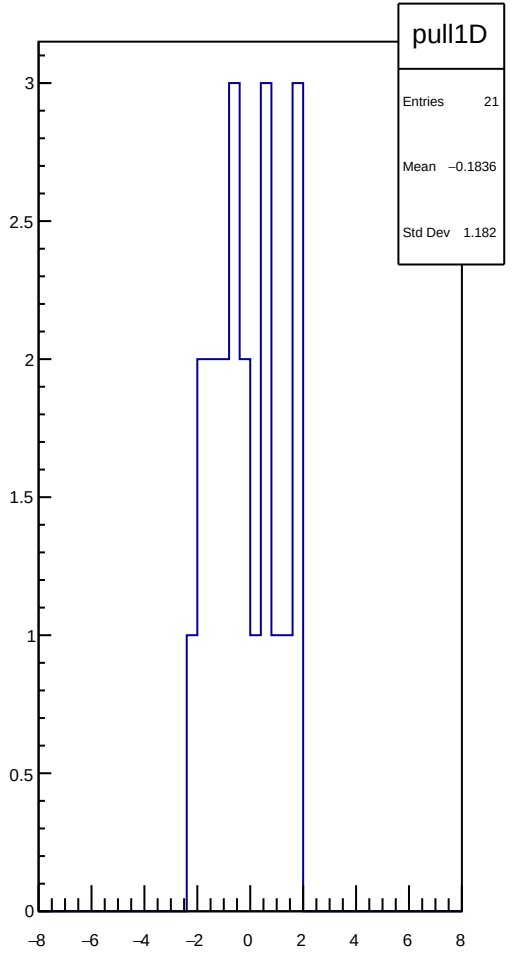

pull1D
Entries 21
Mean −0.7781
Std Dev 4.359
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

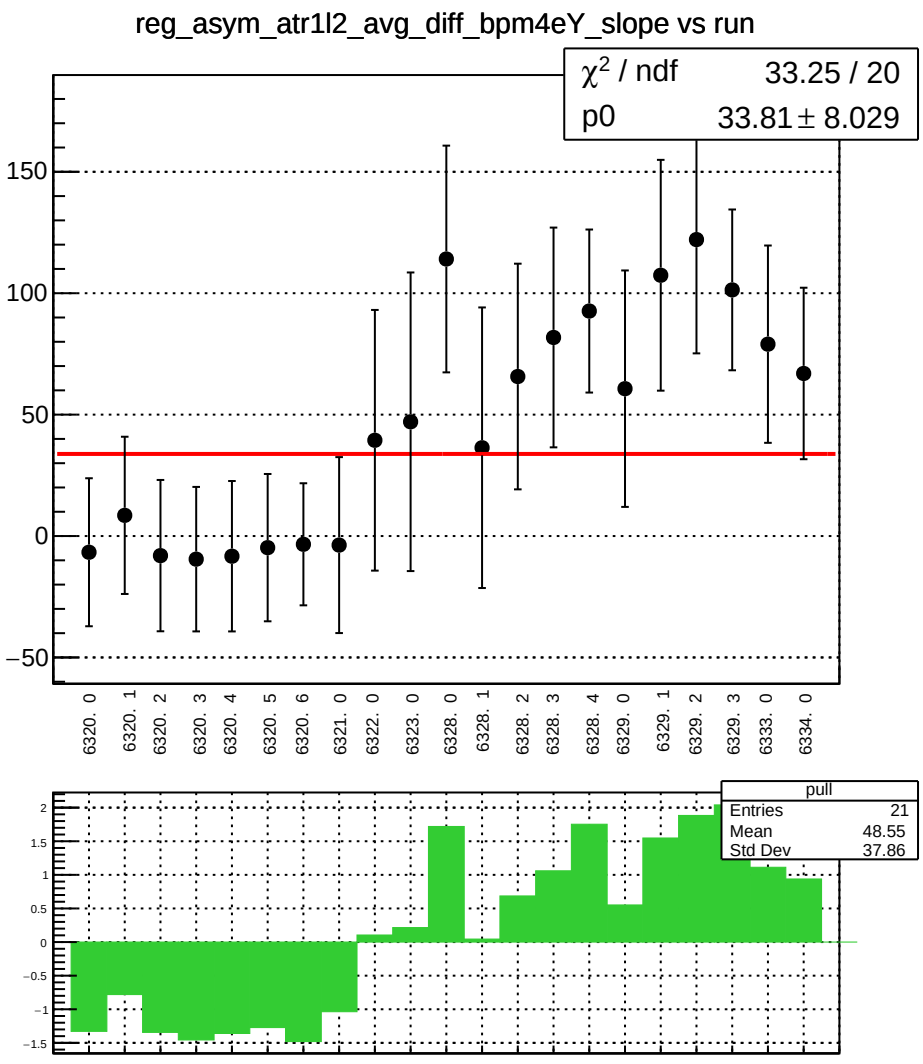

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.99 / 20
p0 −418.8 ± 15.42
−100
−200
−300
−400
−500
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 42.31
Std Dev 32.04
2
1.5
1
0.5
0
−0.5
−1
−1.5

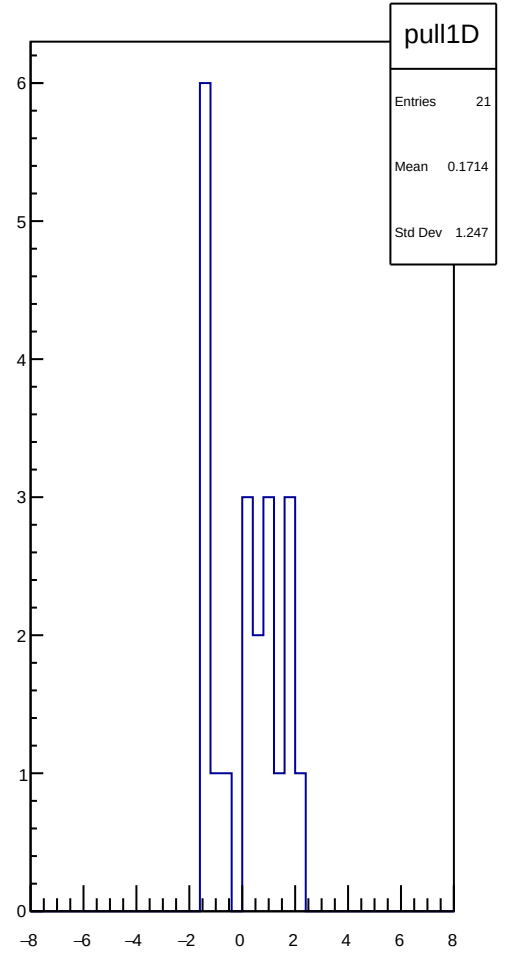

pull1D
Entries 21
Mean 0.1744
Std Dev 1.162
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

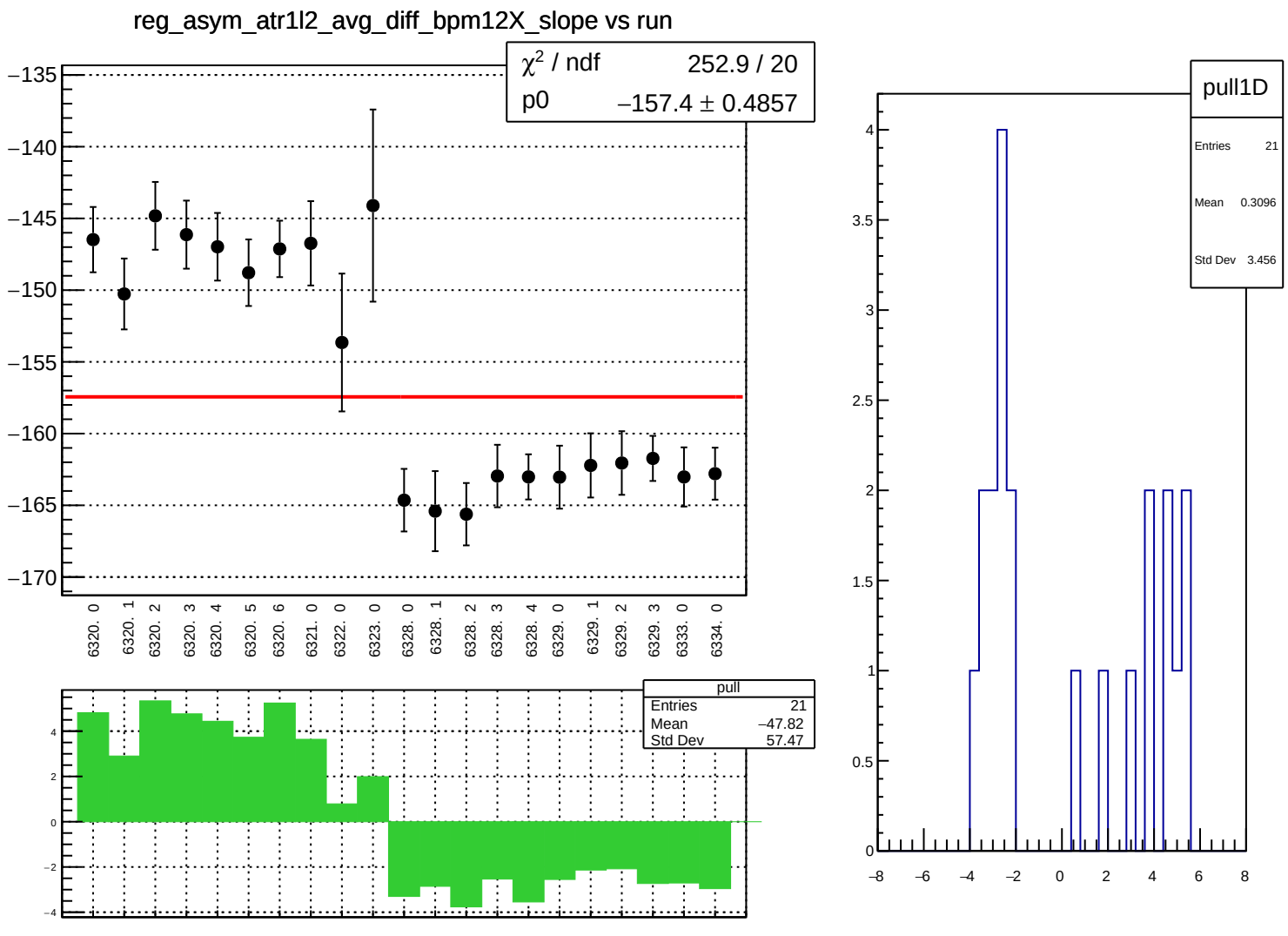

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.51 / 20
p0 21.89 ± 6.731
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 36.2
Std Dev 25.27
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.1576
Std Dev 0.8161
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

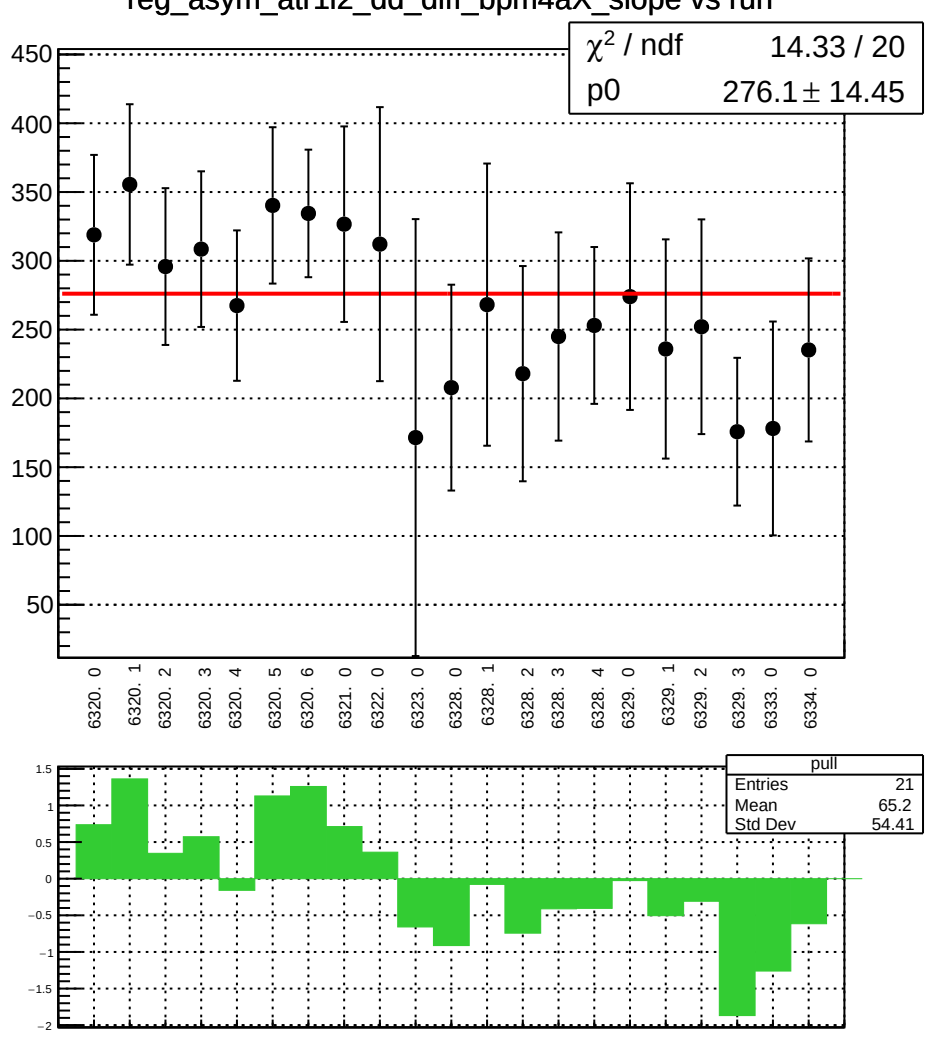

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.03 / 20
p0 401.2 ± 16.71
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.95
Std Dev 30.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

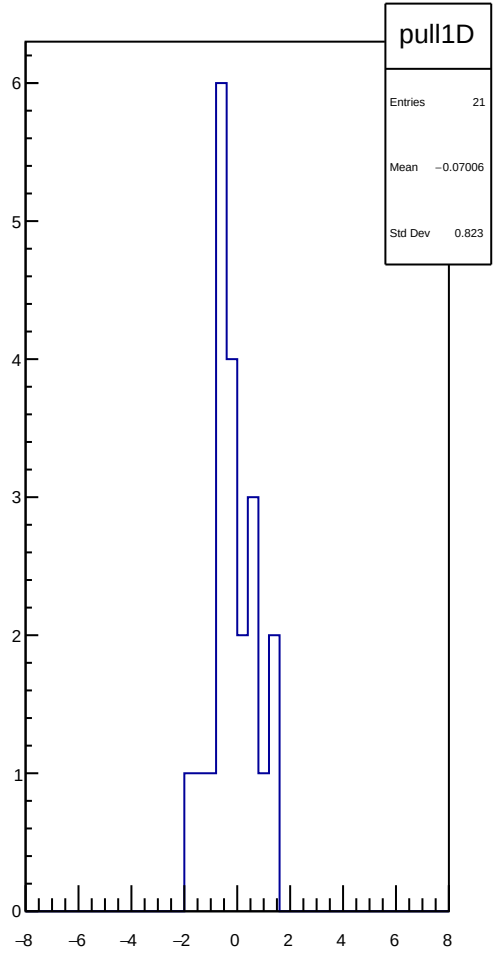

pull1D
Entries 21
Mean −0.1836
Std Dev 1.182
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

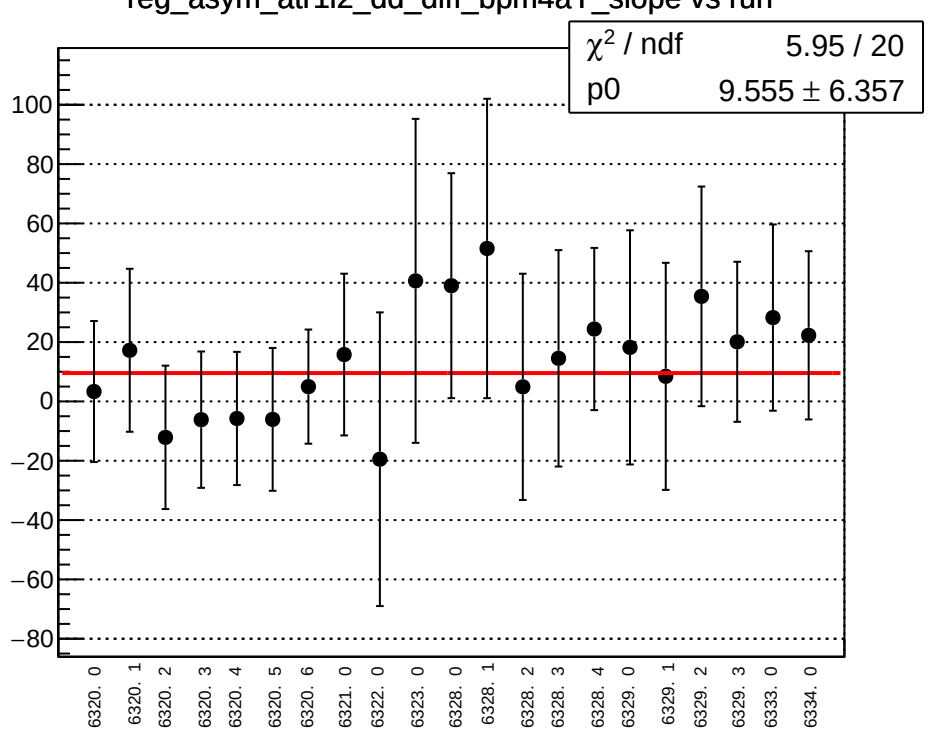

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.25 / 20
p0 33.81 ± 8.029
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 48.55
Std Dev 37.86
2
1.5
1
0.5
0
−0.5
−1
−1.5

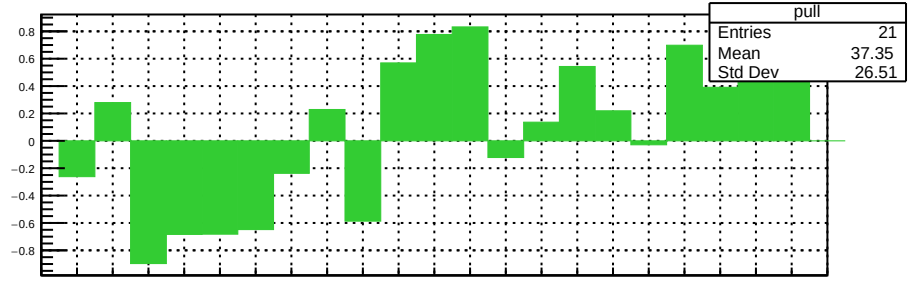

pull1D
Entries 21
Mean 0.1714
Std Dev 1.247
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

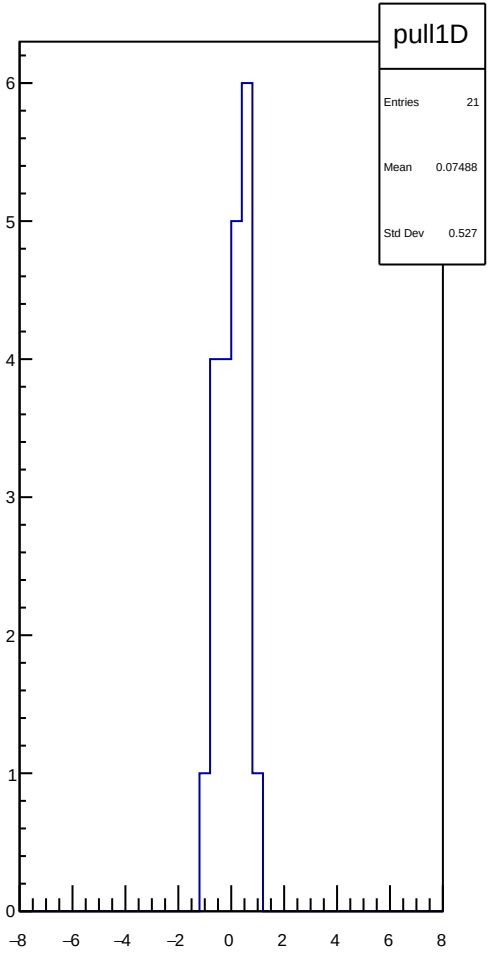

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 252.9 / 20
p0 −157.4 ± 0.4857
−135
−140
−145
−150
−155
−160
−165
−170
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −47.82
Std Dev 57.47
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.3096
Std Dev 3.456
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

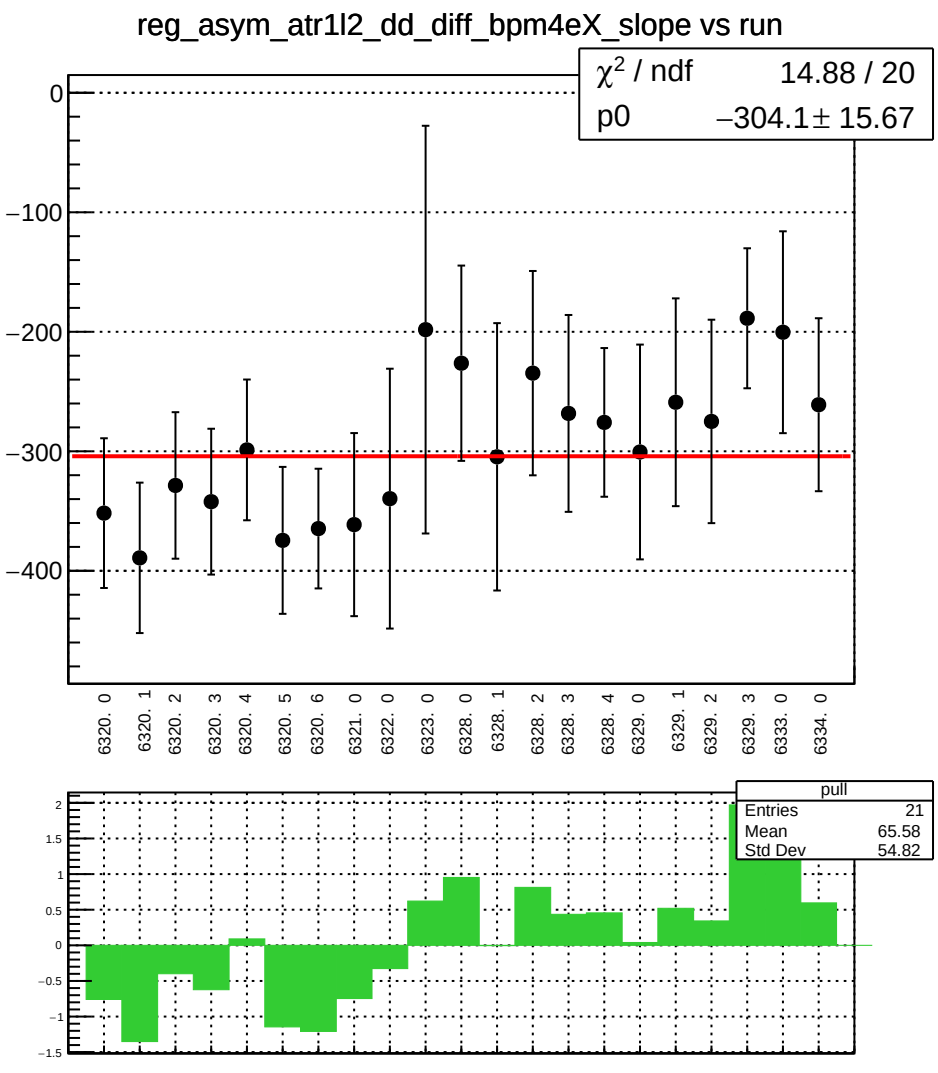

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.33 / 20
p0 276.1 ± 14.45
450
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 65.2
Std Dev 54.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2

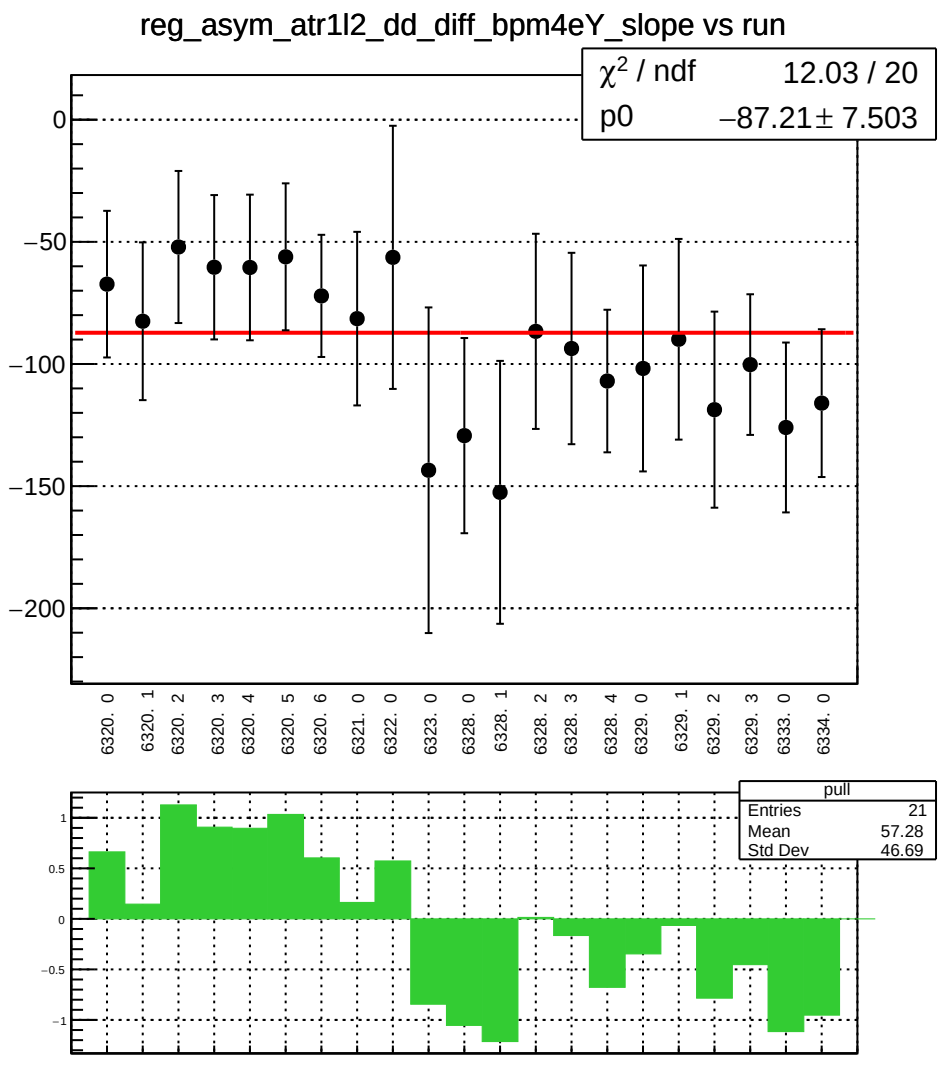

pull1D
Entries 21
Mean −0.07006
Std Dev 0.823
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

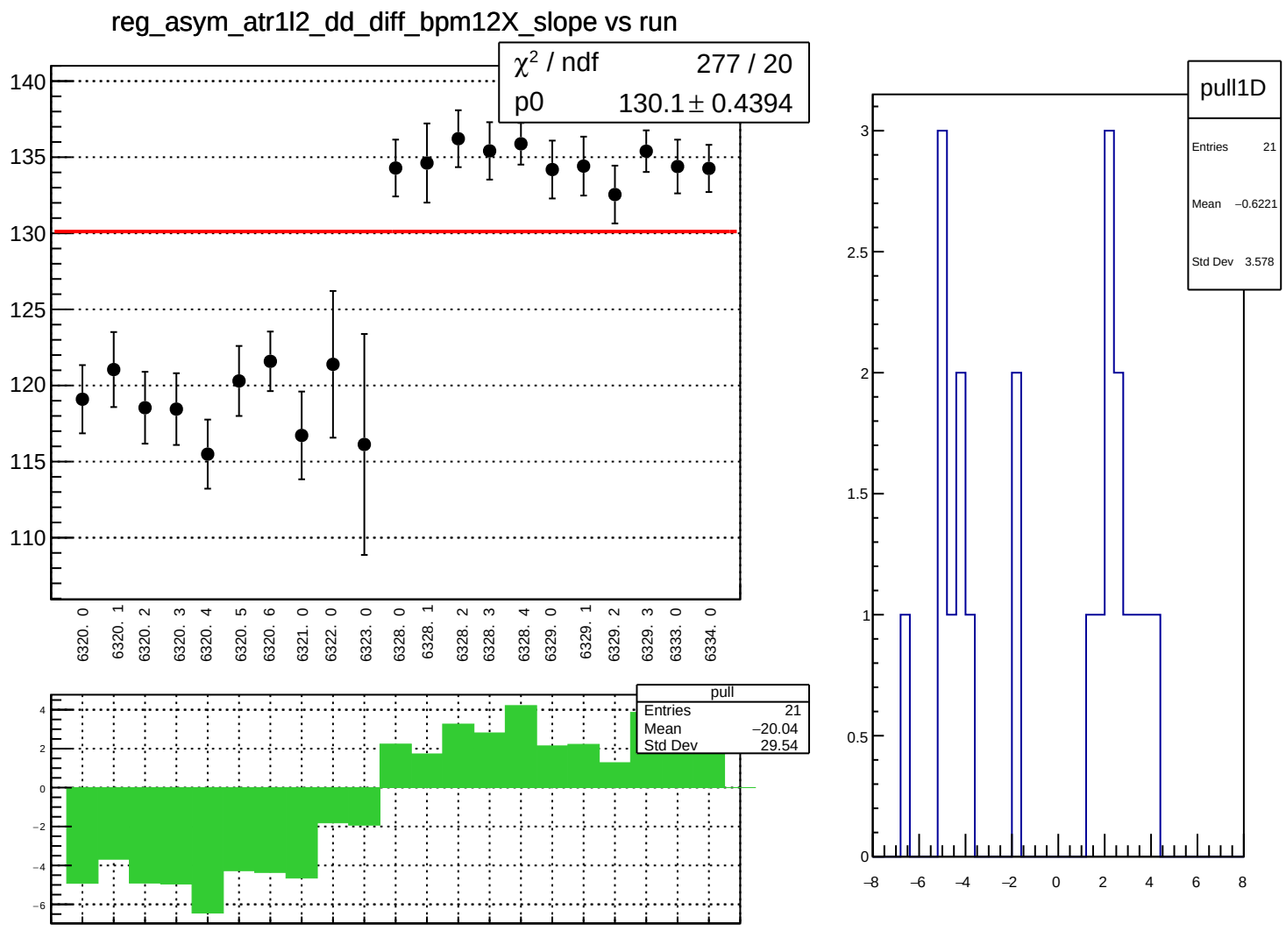

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.95 / 20
p0 9.555 ± 6.357
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

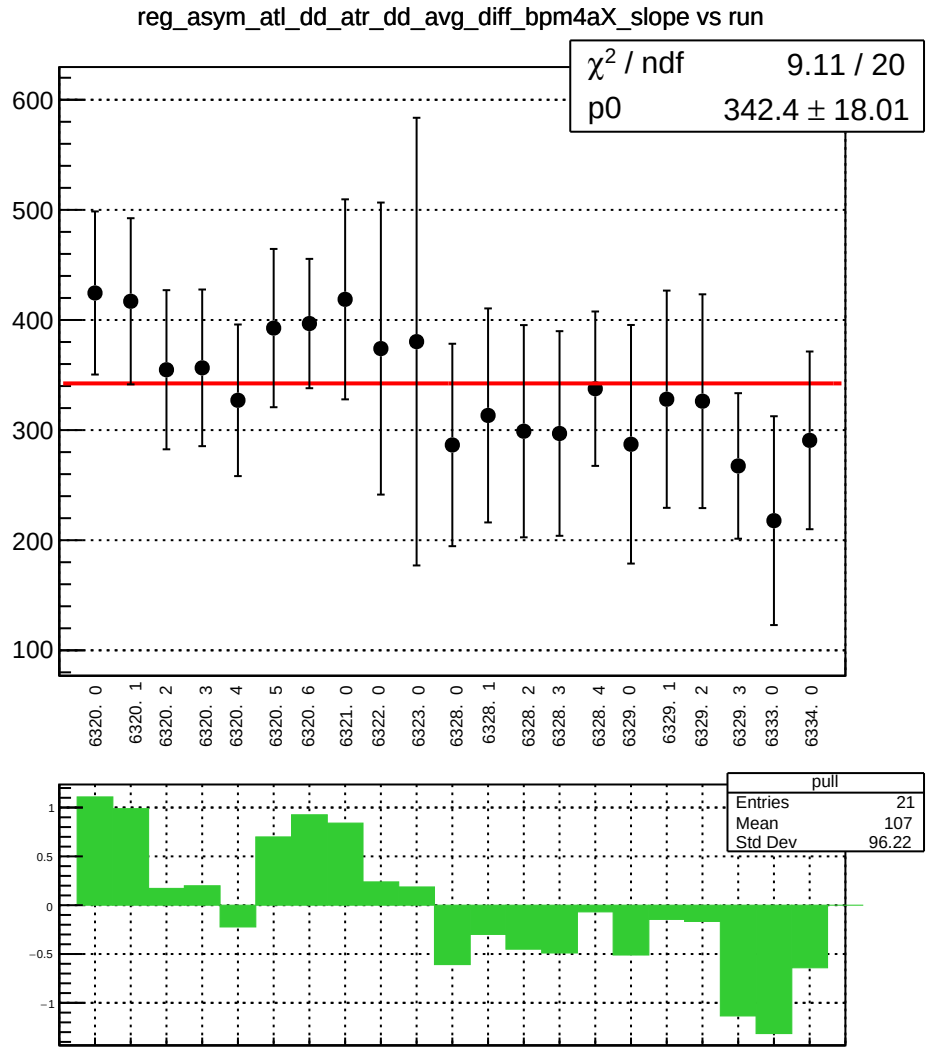

pull
Entries 21
Mean 37.35
Std Dev 26.51
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

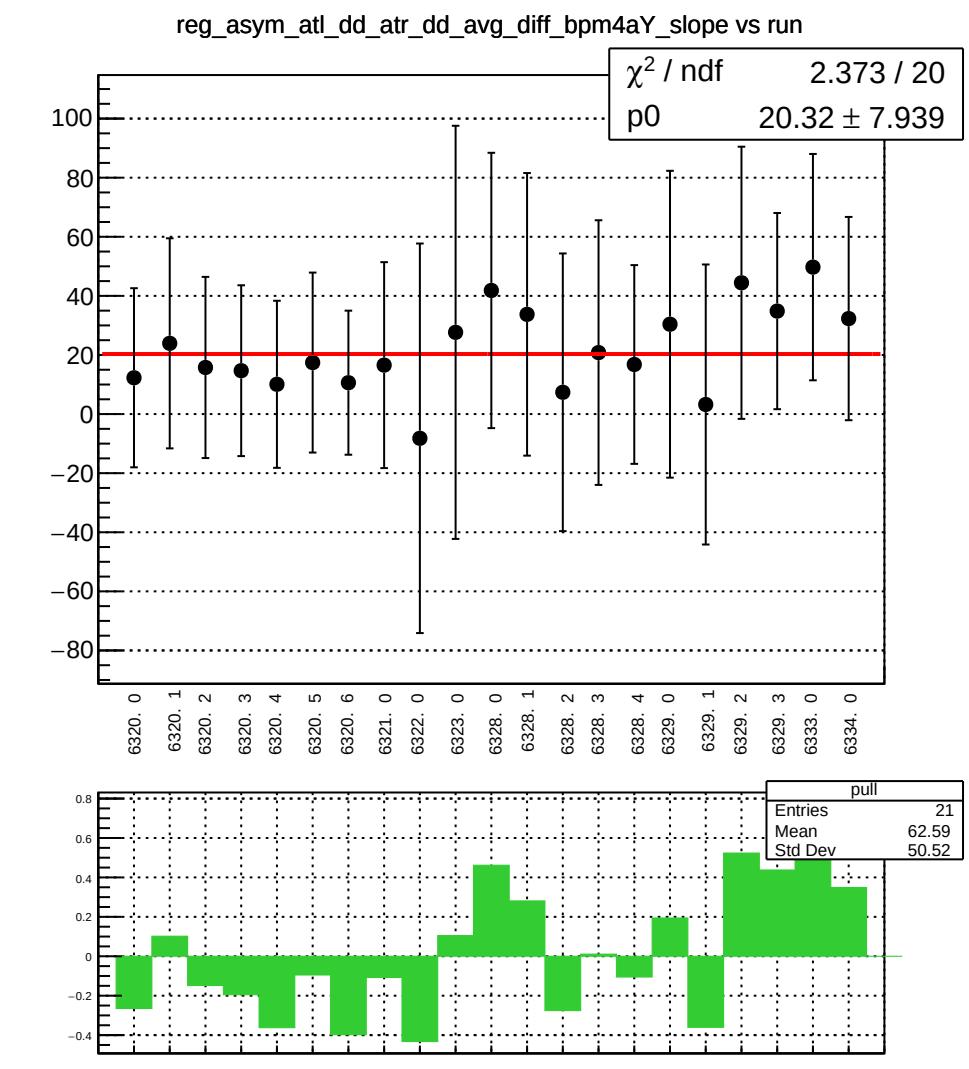

pull1D
Entries 21
Mean 0.07488
Std Dev 0.527
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

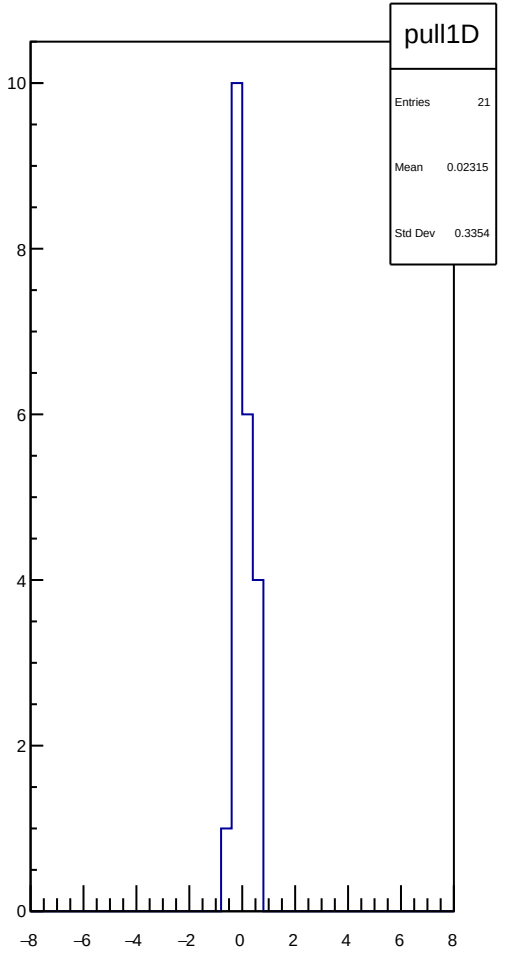

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.88 / 20
p0 −304.1± 15.67
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 65.58
Std Dev 54.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.07162
Std Dev 0.8388
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

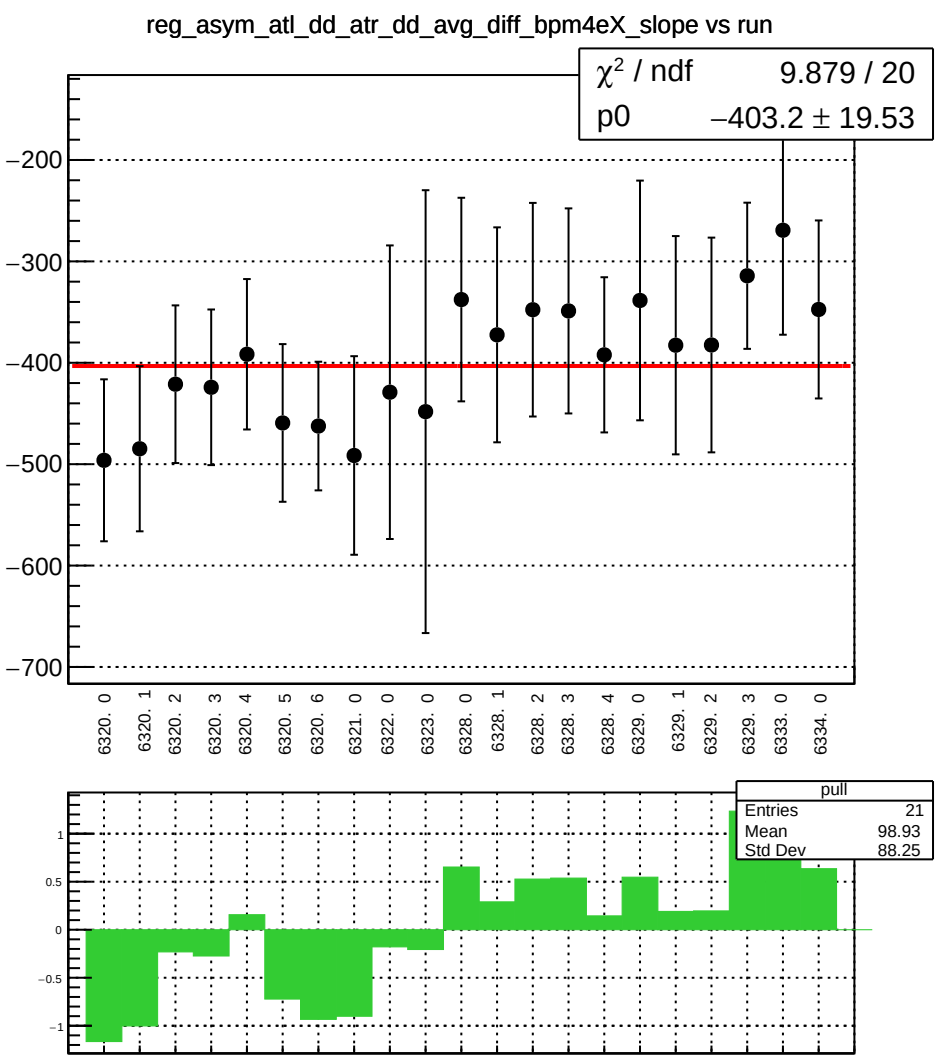

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.03 / 20
p0 −87.21± 7.503
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.28
Std Dev 46.69
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.07356
Std Dev 0.7532
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

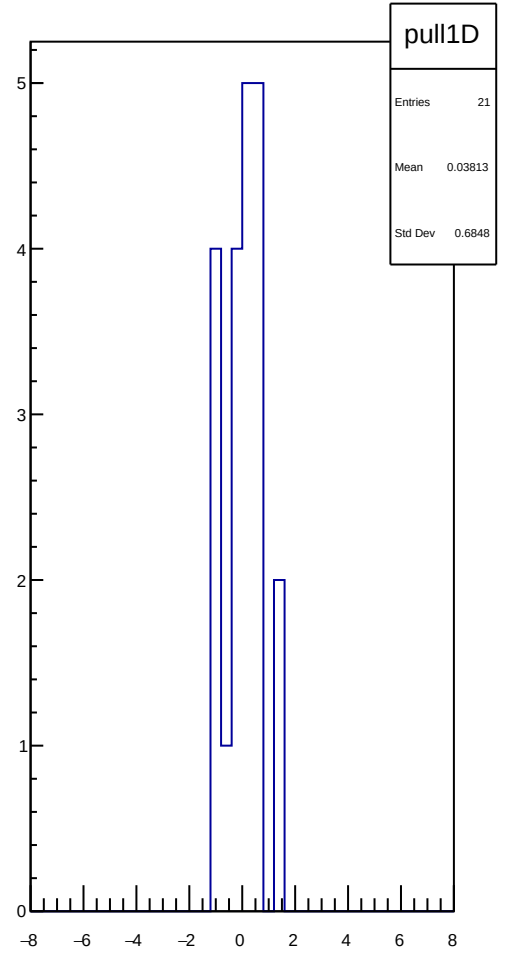

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 277 / 20
p0 130.1 ± 0.4394
140
135
130
125
120
115
110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.04
Std Dev 29.54
4
2
0
−2
−4
−6
pull1D
Entries 21
Mean −0.6221
Std Dev 3.578
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

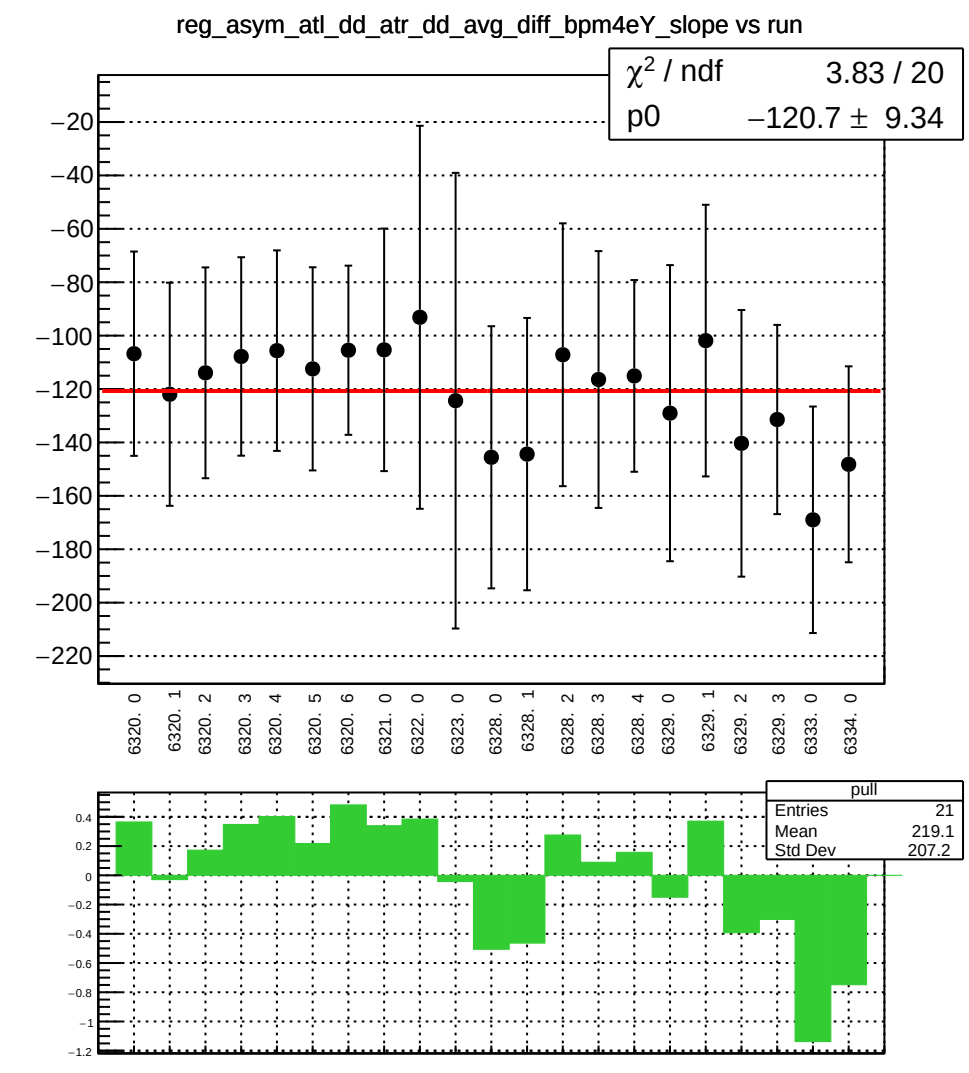

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.11 / 20
p0 342.4 ± 18.01
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 107
Std Dev 96.22
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.0329
Std Dev 0.6578
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

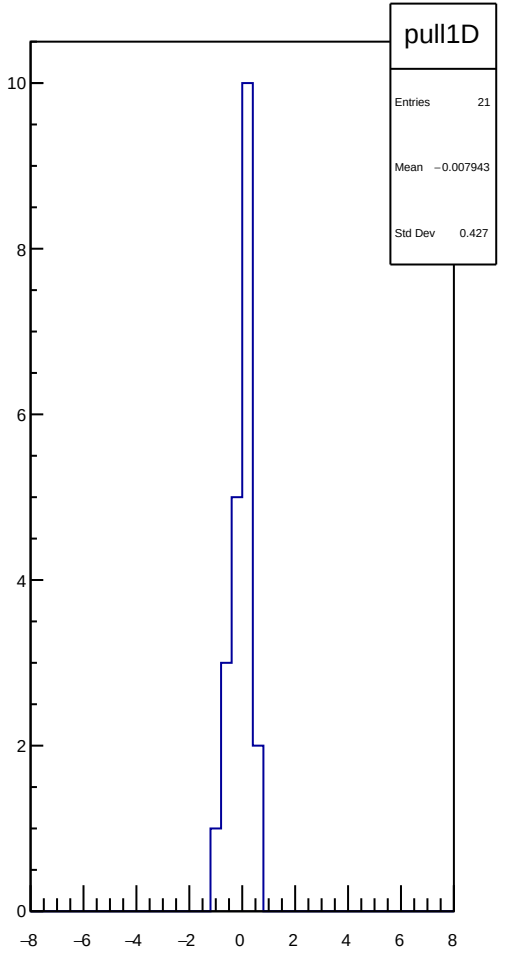

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.373 / 20
p0 20.32 ± 7.939
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 62.59
Std Dev 50.52
0.8
0.6
0.4
0.2
0
−0.2
−0.4

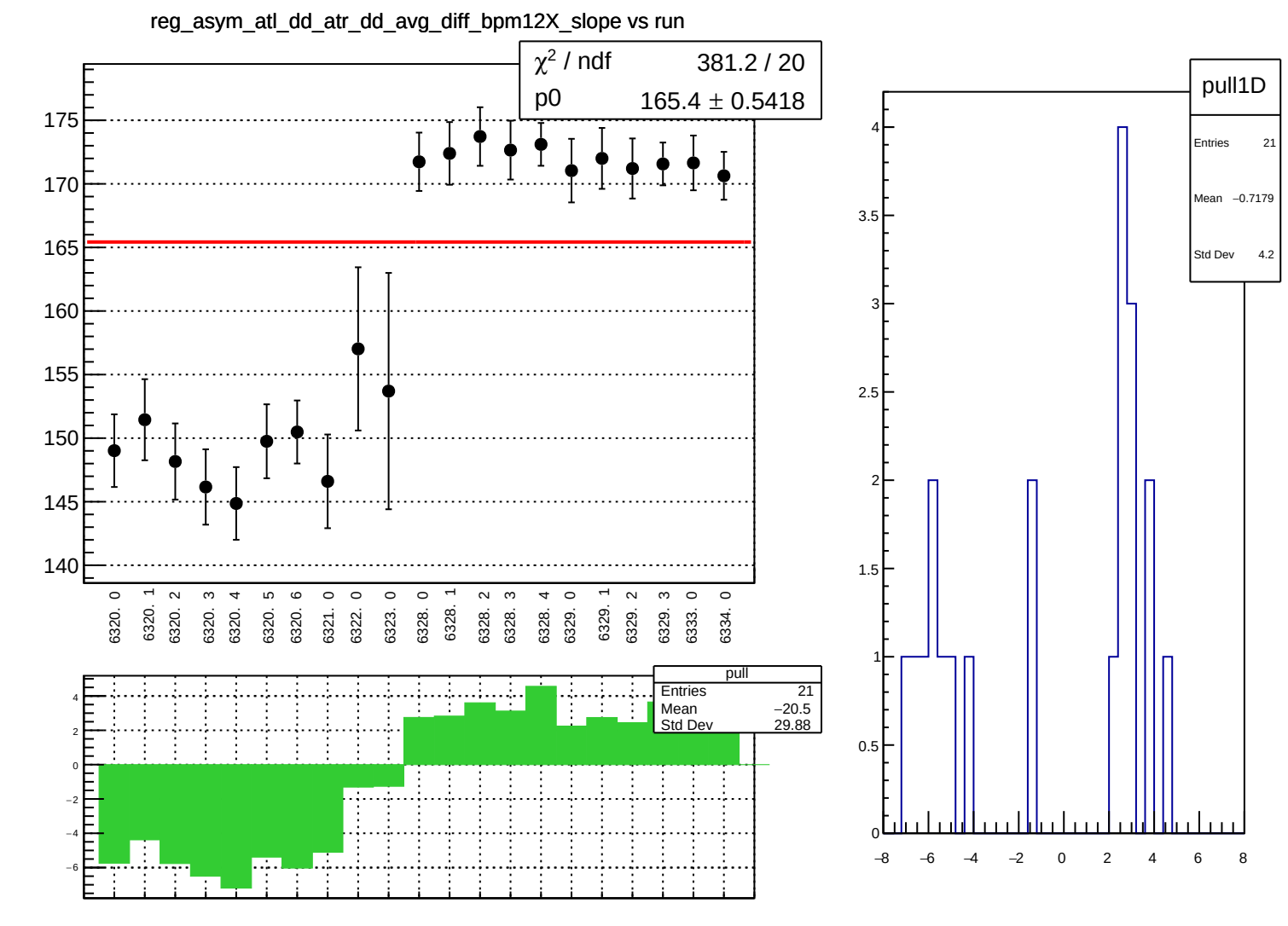

pull1D
Entries 21
Mean 0.02315
Std Dev 0.3354
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

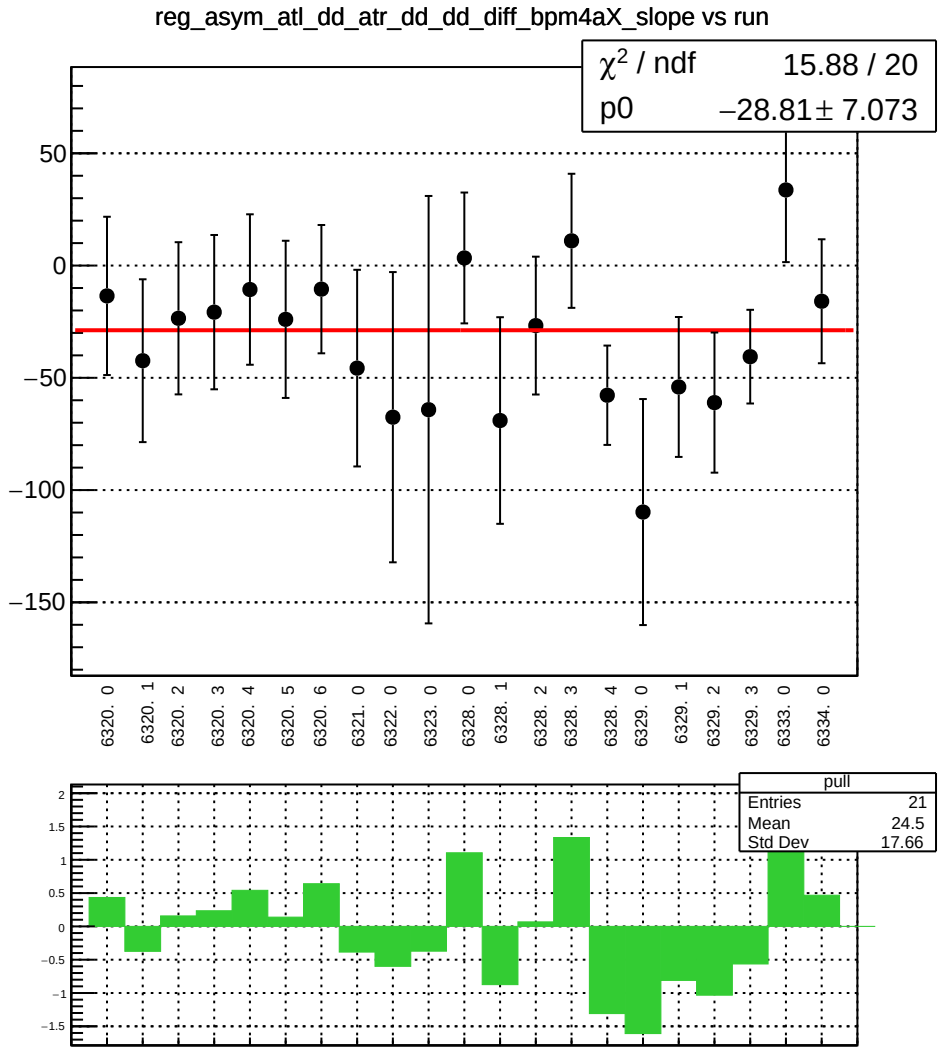

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.879 / 20
p0 −403.2 ± 19.53
−200
−300
−400
−500
−600
−700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 98.93
Std Dev 88.25
1
0.5
0
−0.5
−1

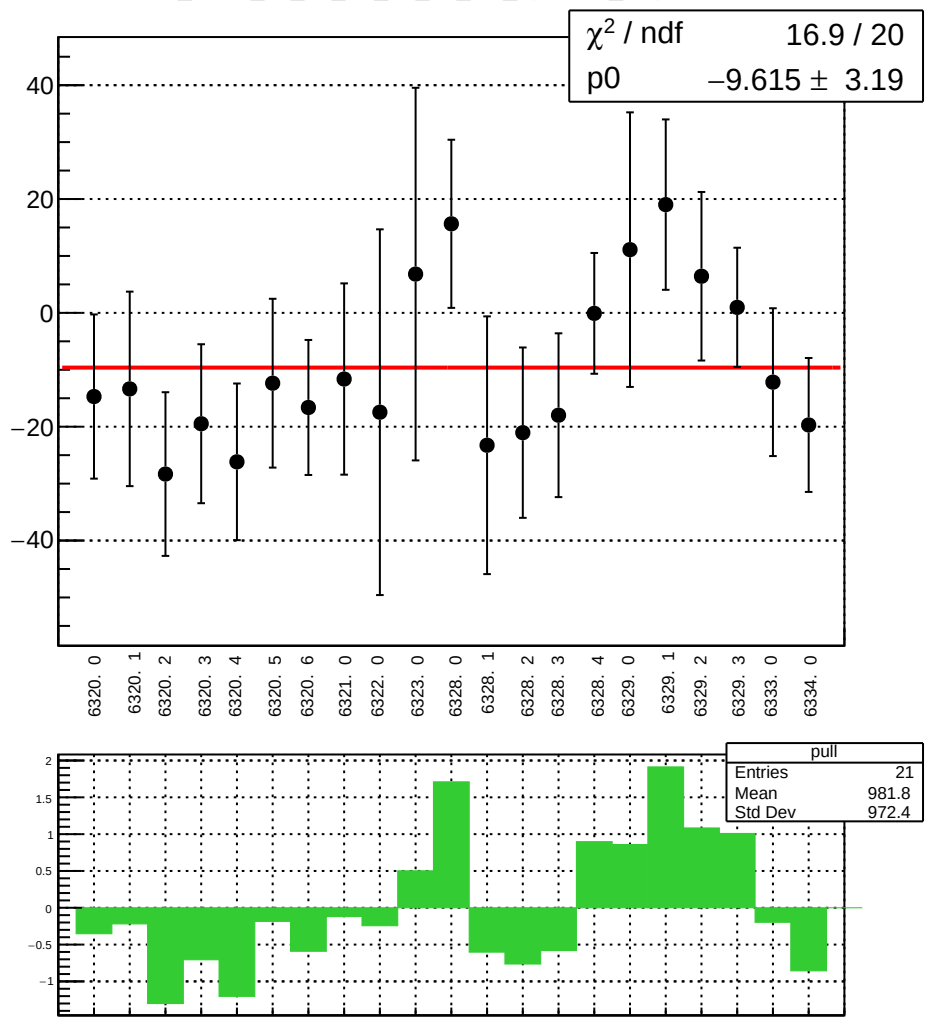

pull1D
Entries 21
Mean 0.03813
Std Dev 0.6848
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

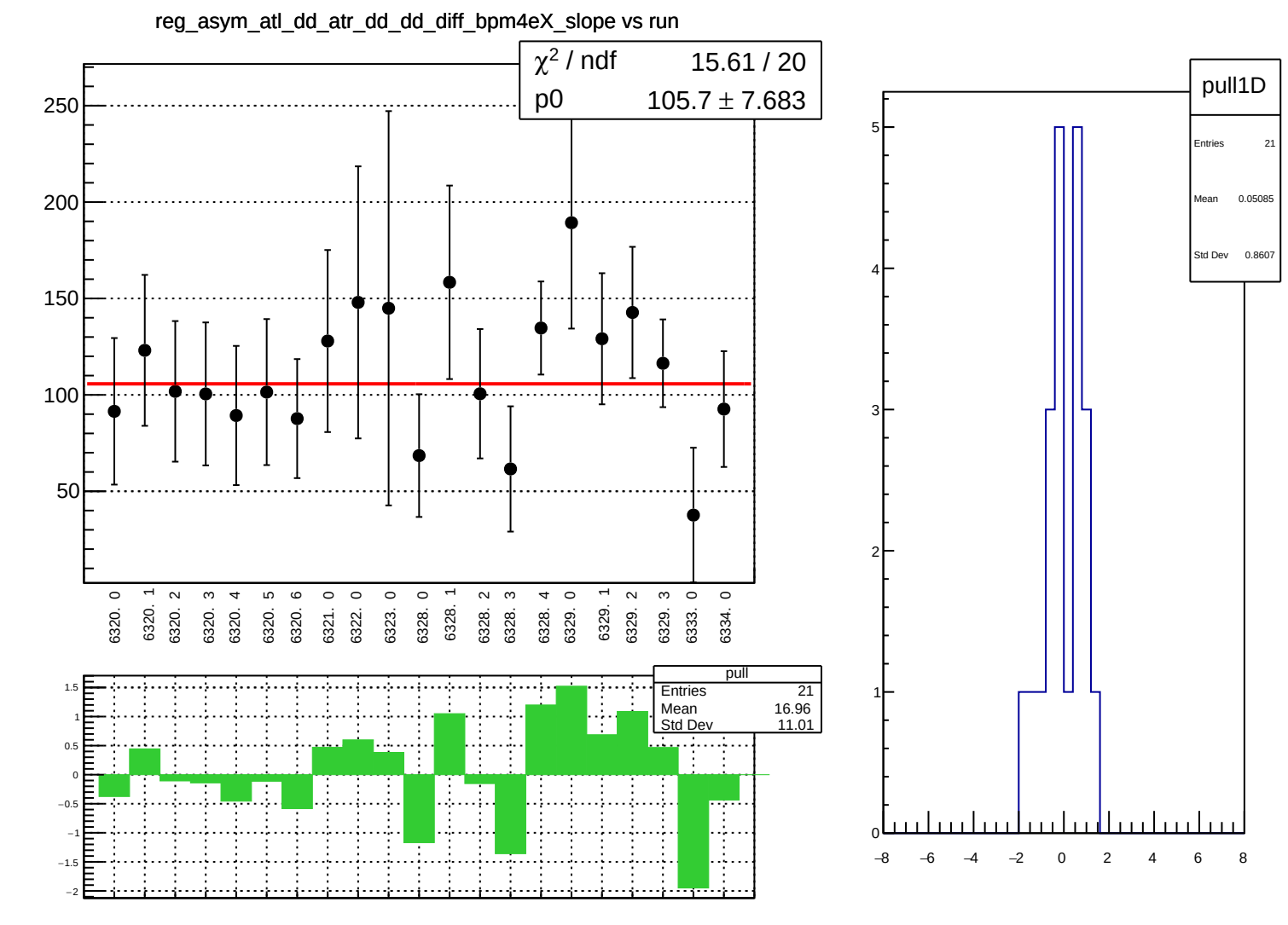

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.83 / 20
p0 −120.7 ± 9.34
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 219.1
Std Dev 207.2
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

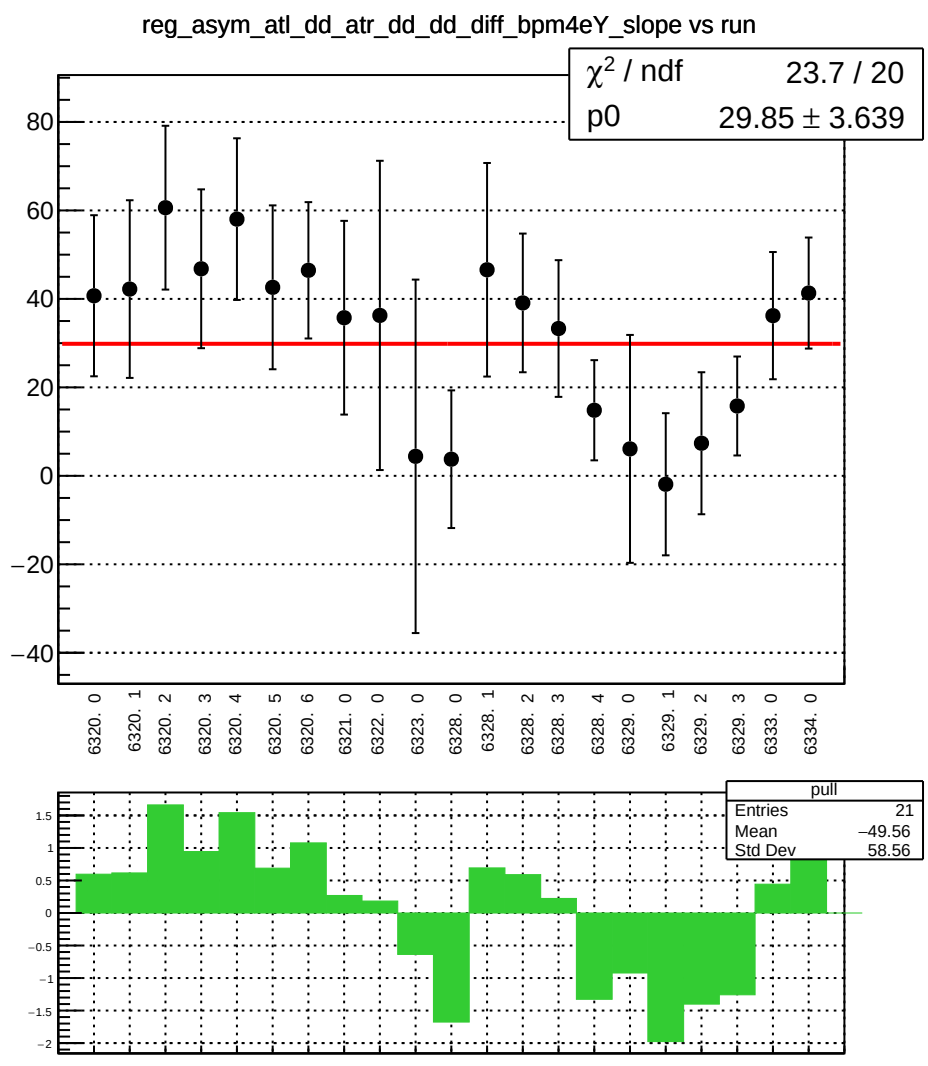

pull1D
Entries 21
Mean −0.007943
Std Dev 0.427
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

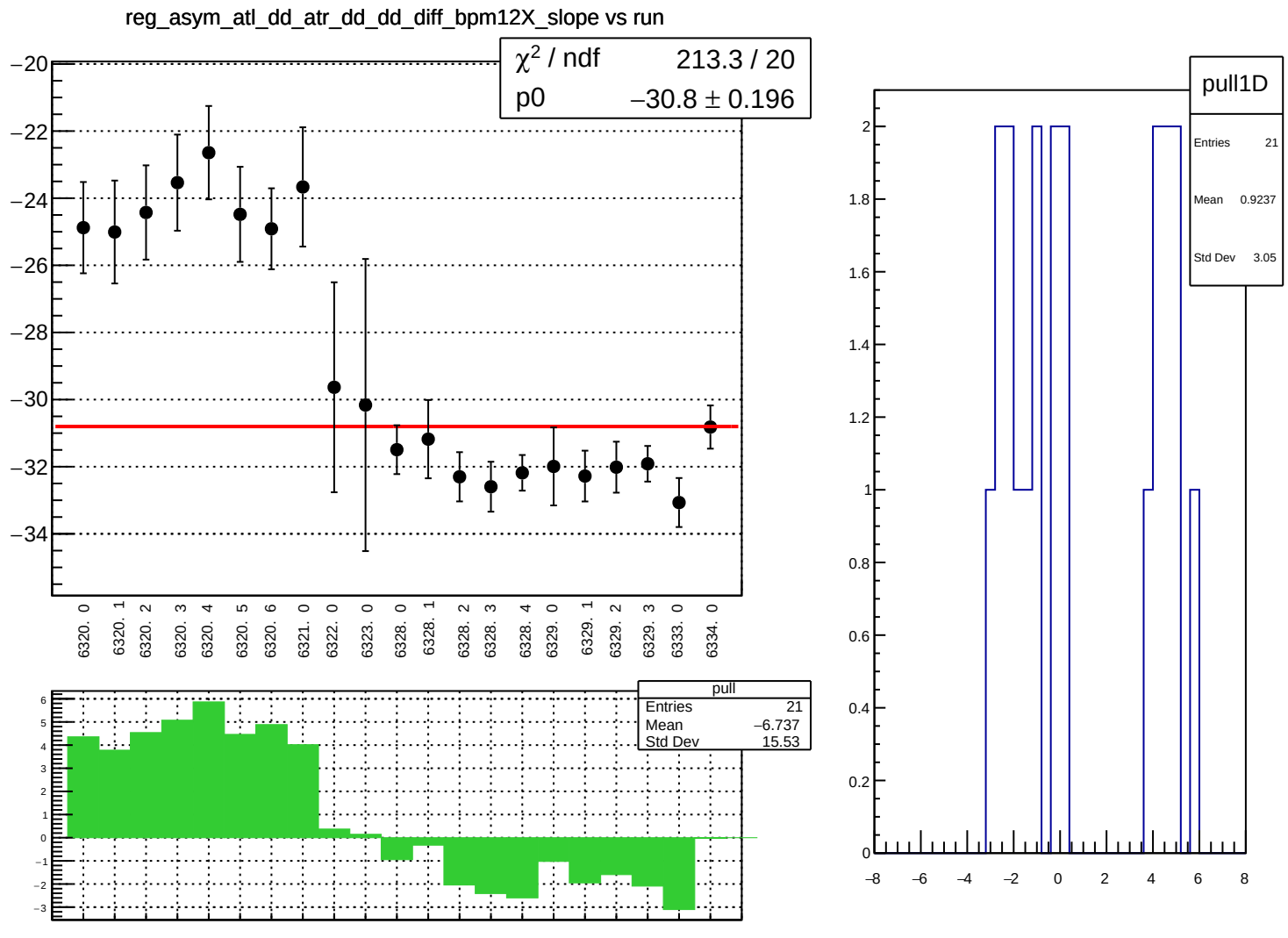

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 381.2 / 20
p0 165.4 ± 0.5418
175
170
165
160
155
150
145
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.5
Std Dev 29.88
4
2
0
−2
−4
−6
pull1D
Entries 21
Mean −0.7179
Std Dev 4.2
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

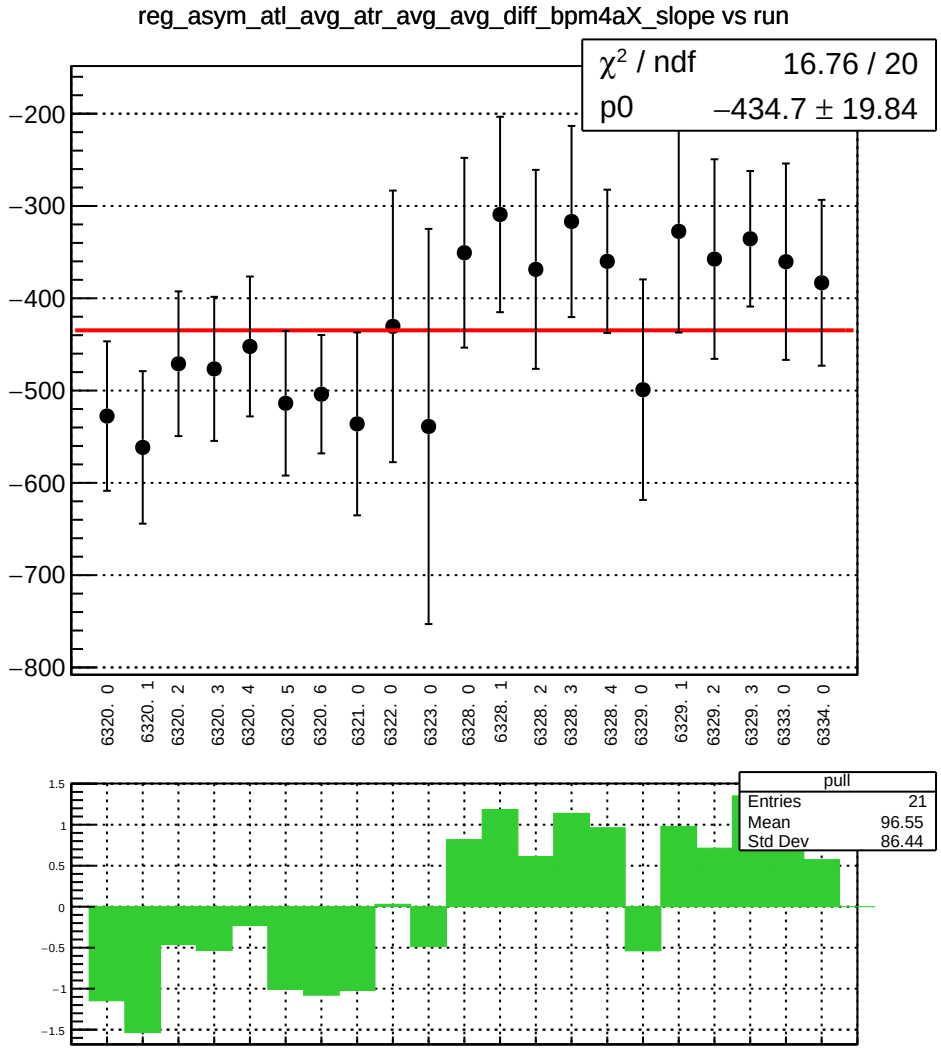

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.88 / 20
p0 −28.81± 7.073
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 24.5
Std Dev 17.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.04115
Std Dev 0.8687
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

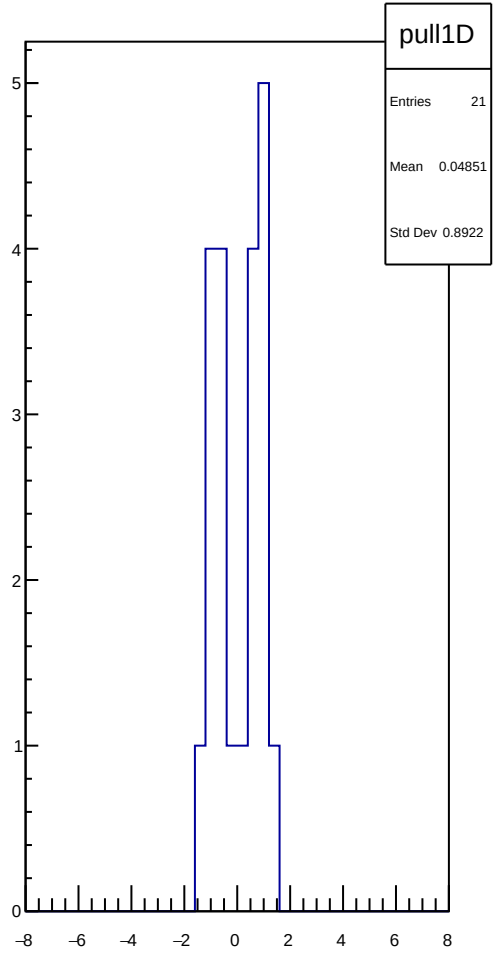

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.9 / 20
p0 −9.615 ± 3.19
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 981.8
Std Dev 972.4
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.002575
Std Dev 0.8971
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

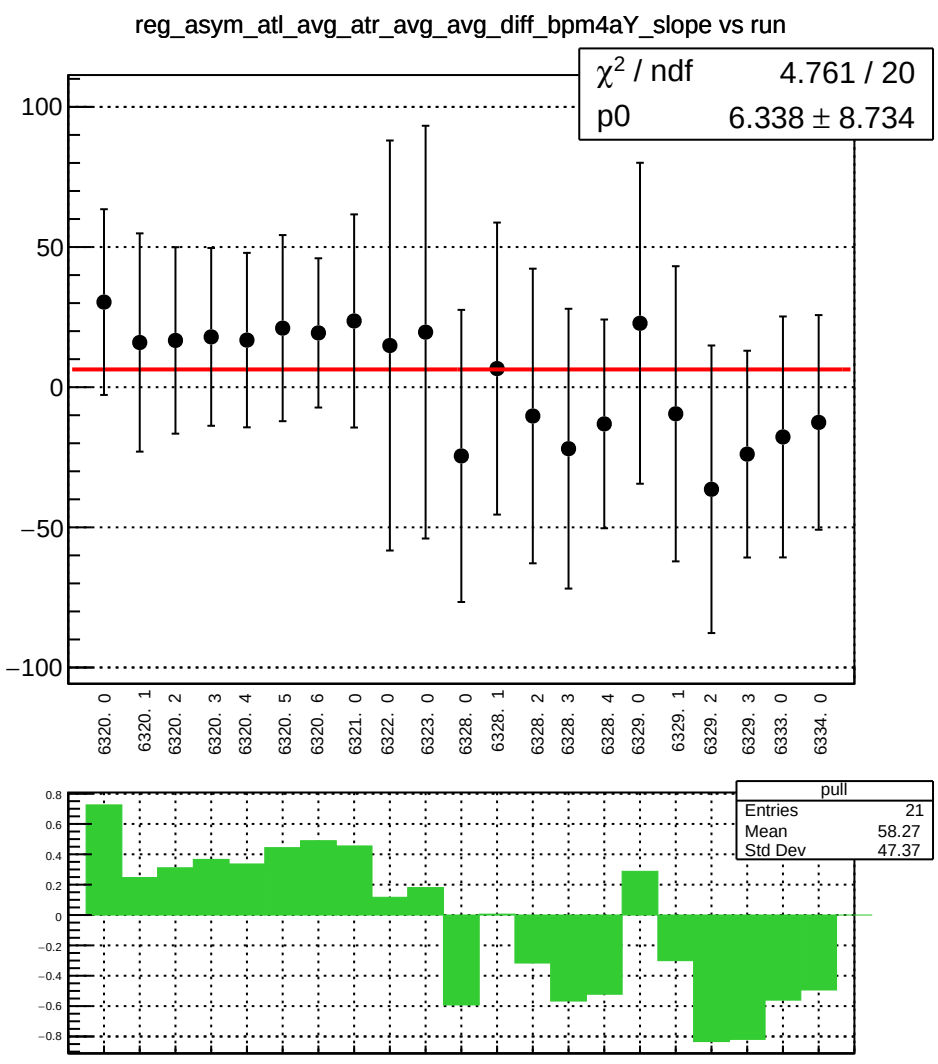

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.61 / 20
p0 105.7 ± 7.683
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 16.96
Std Dev 11.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.05085
Std Dev 0.8607
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

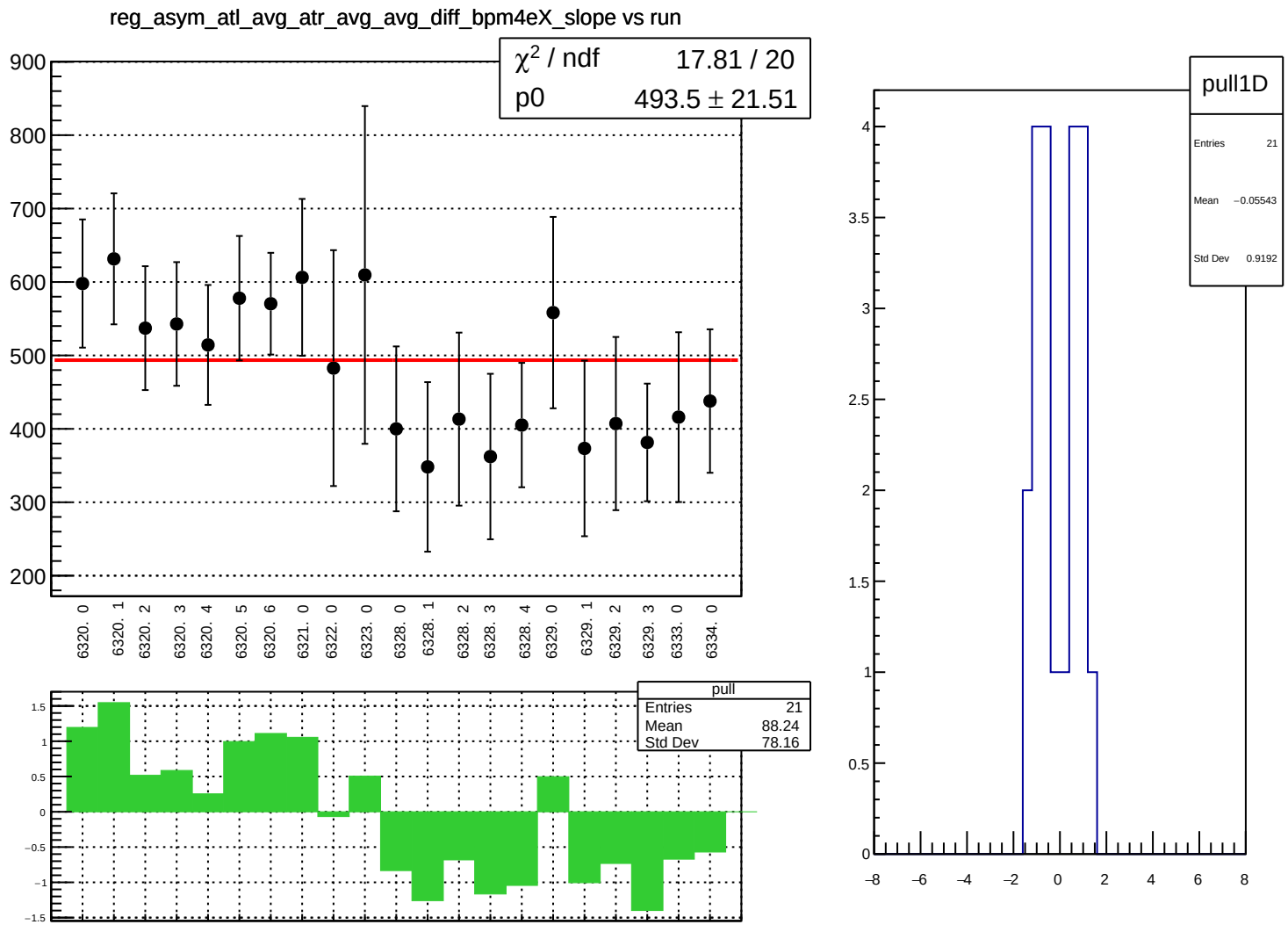

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.7 / 20
p0 29.85 ± 3.639
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −49.56
Std Dev 58.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.05941
Std Dev 1.061
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

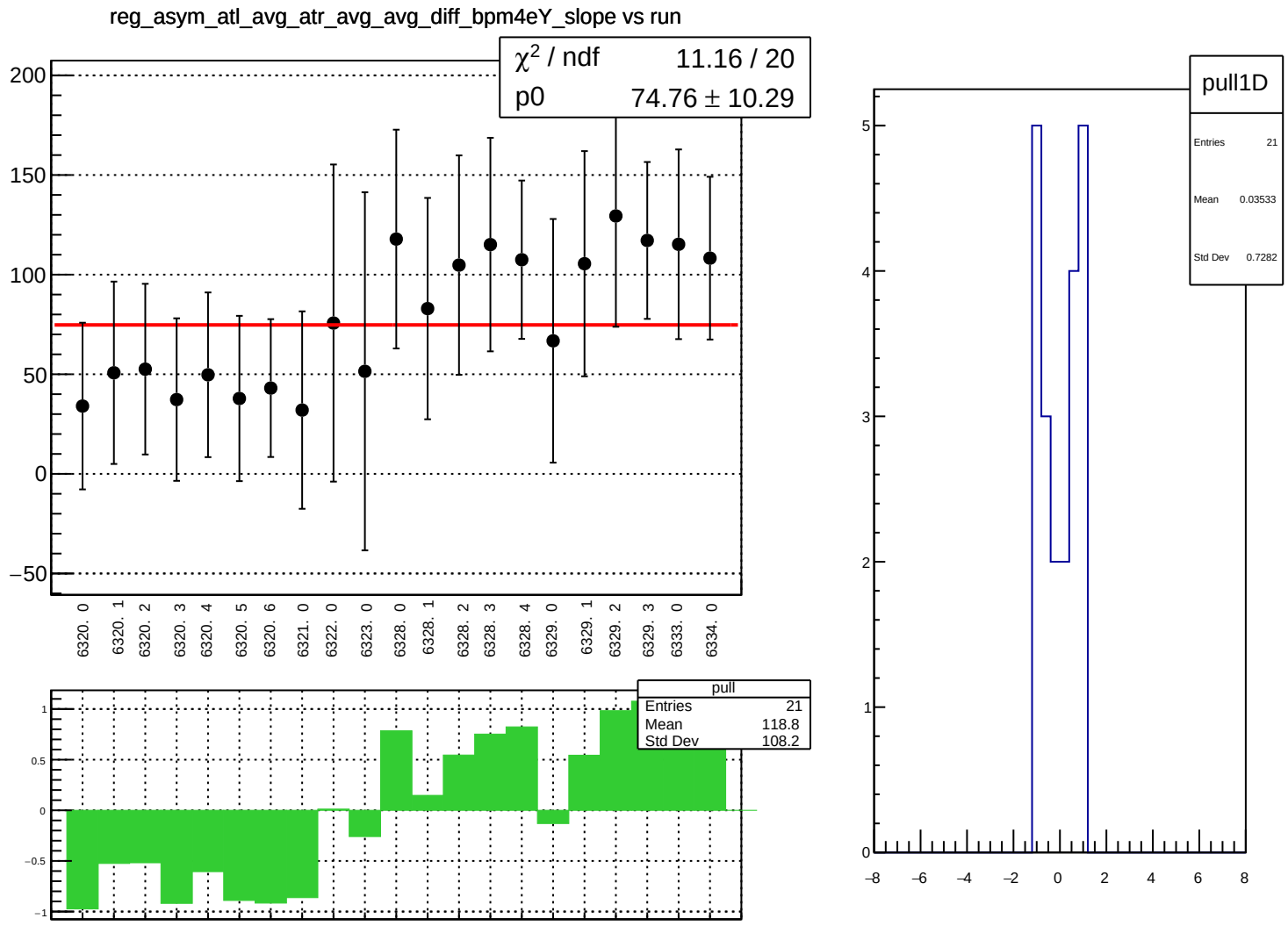

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 213.3 / 20
p0 −30.8 ± 0.196
−20
−22
−24
−26
−28
−30
−32
−34
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.737
Std Dev 15.53
pull1D
Entries 21
Mean 0.9237
Std Dev 3.05

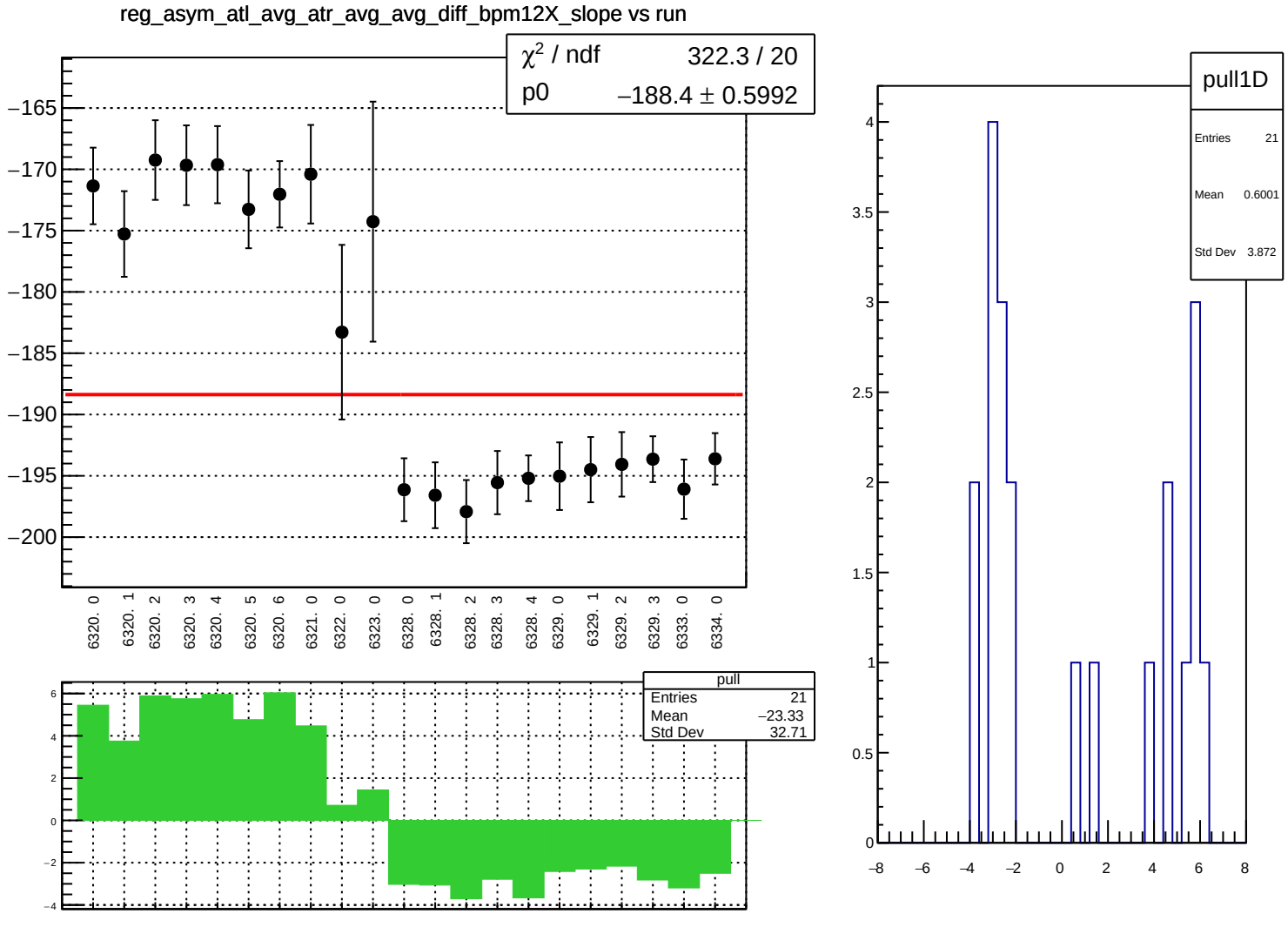

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.76 / 20
p0 −434.7 ± 19.84
−200
−300
−400
−500
−600
−700
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 96.55
Std Dev 86.44
1.5
1
0.5
0
−0.5
−1
−1.5

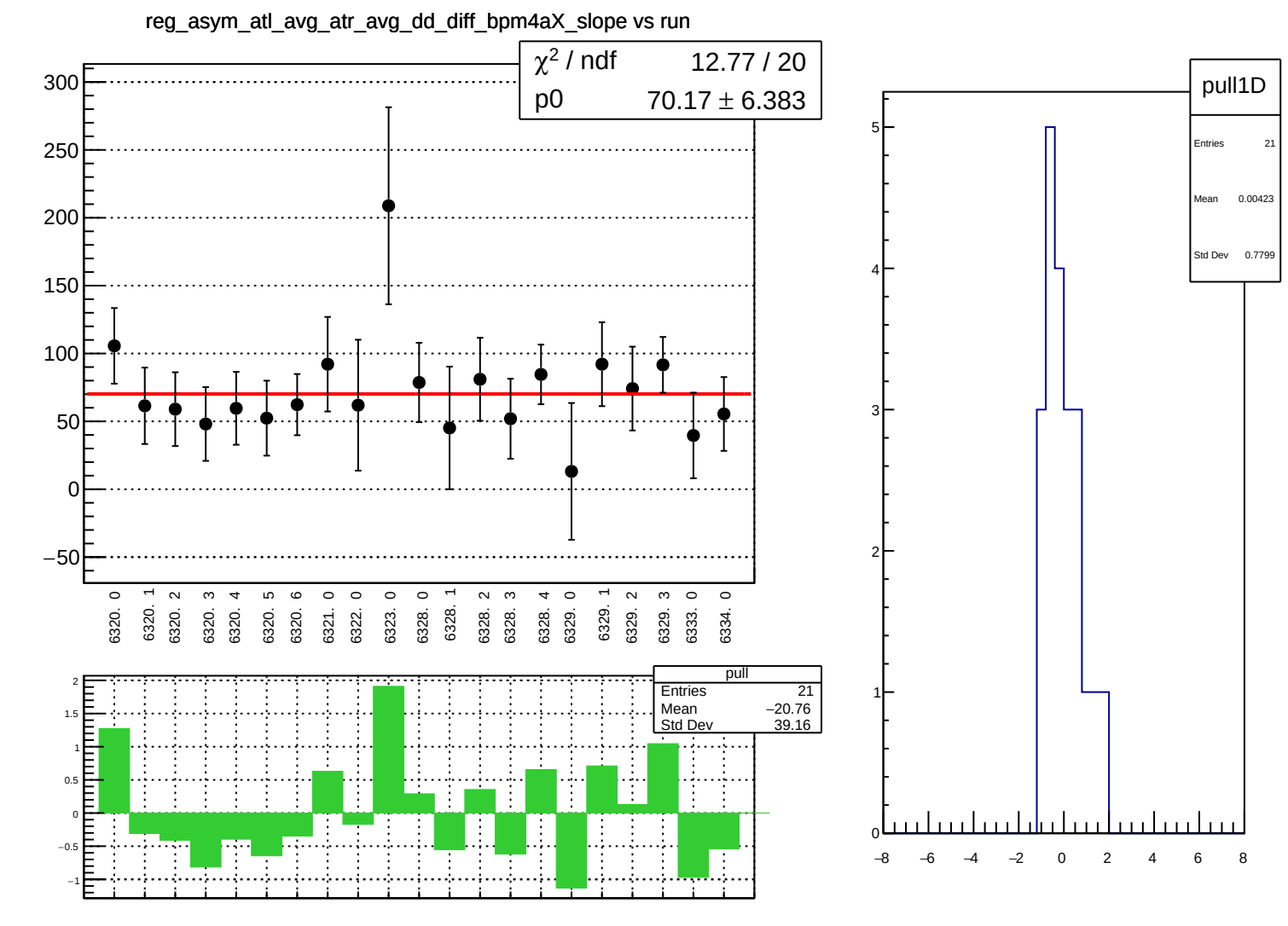

pull1D
Entries 21
Mean 0.04851
Std Dev 0.8922
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

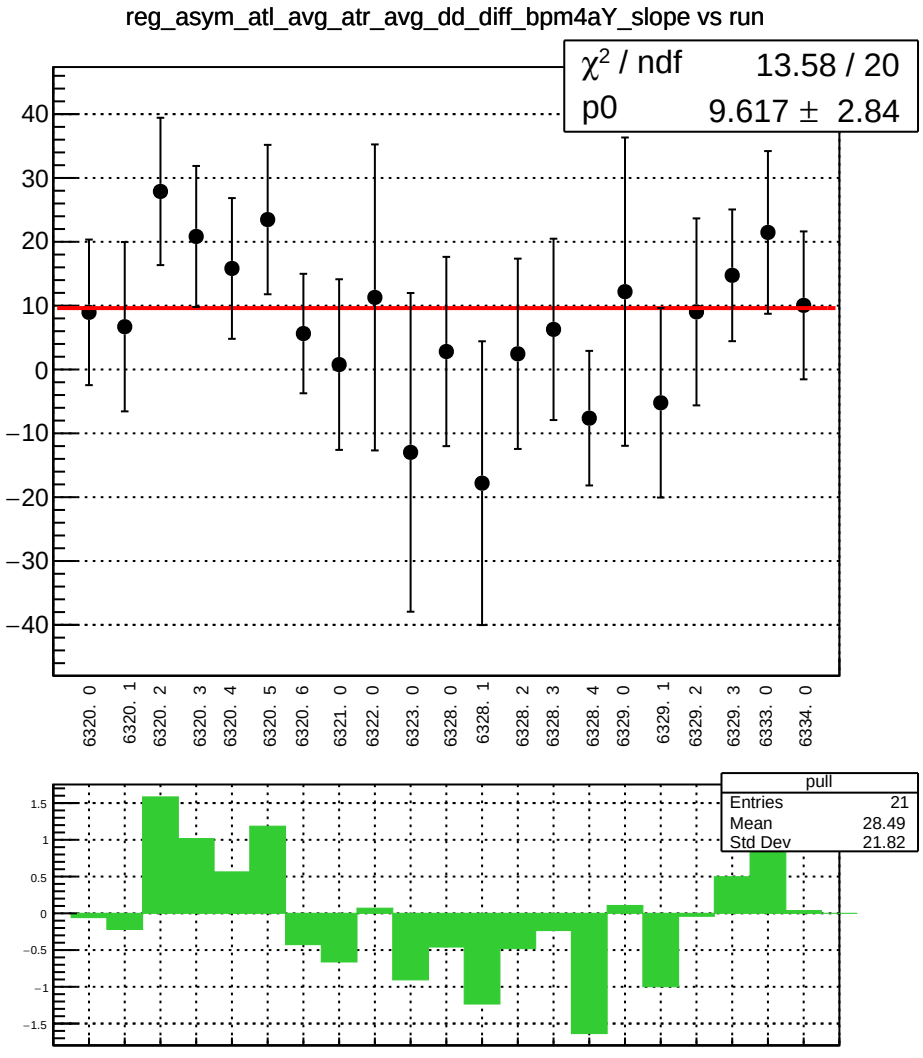

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.761 / 20
p0 6.338 ± 8.734
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 58.27
Std Dev 47.37
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.04948
Std Dev 0.4735
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

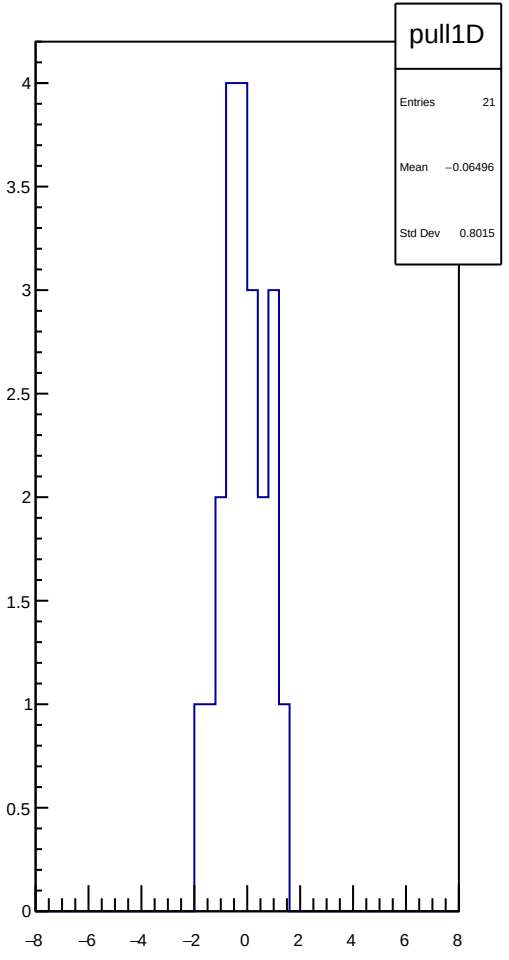

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.81 / 20
p0 493.5 ± 21.51
900
800
700
600
500
400
300
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 88.24
Std Dev 78.16
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.05543
Std Dev 0.9192
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

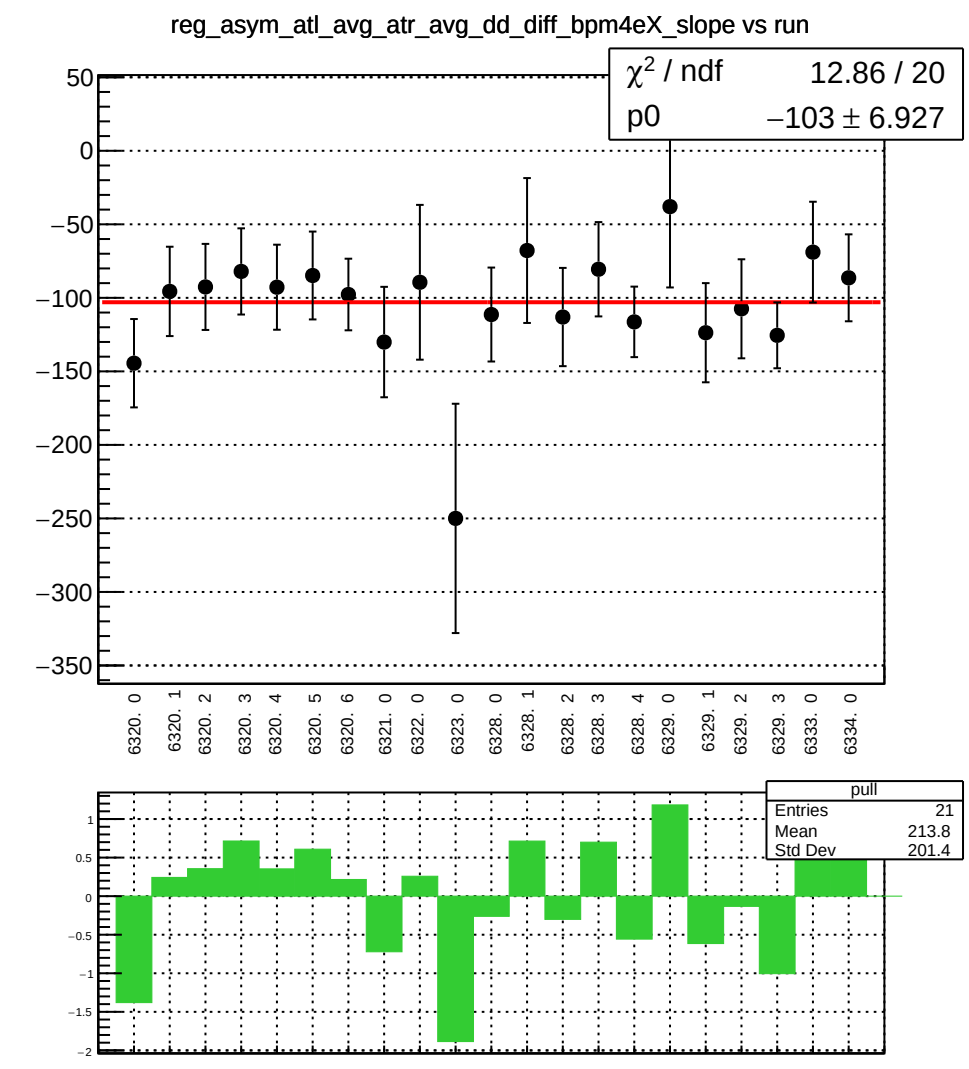

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.16 / 20
p0 74.76 ± 10.29
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 118.8
Std Dev 108.2
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.03533
Std Dev 0.7282
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

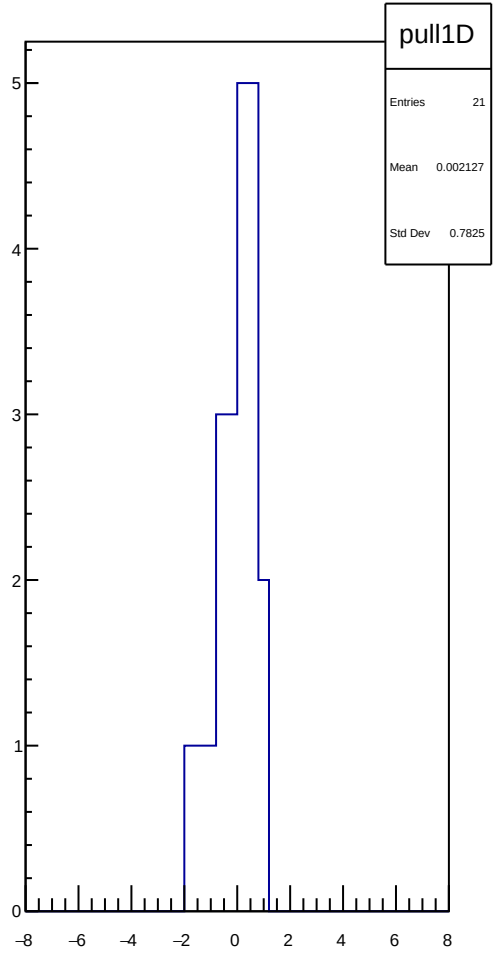

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 322.3 / 20
p0 −188.4 ± 0.5992
−165
−170
−175
−180
−185
−190
−195
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −23.33
Std Dev 32.71
pull1D
Entries 21
Mean 0.6001
Std Dev 3.872

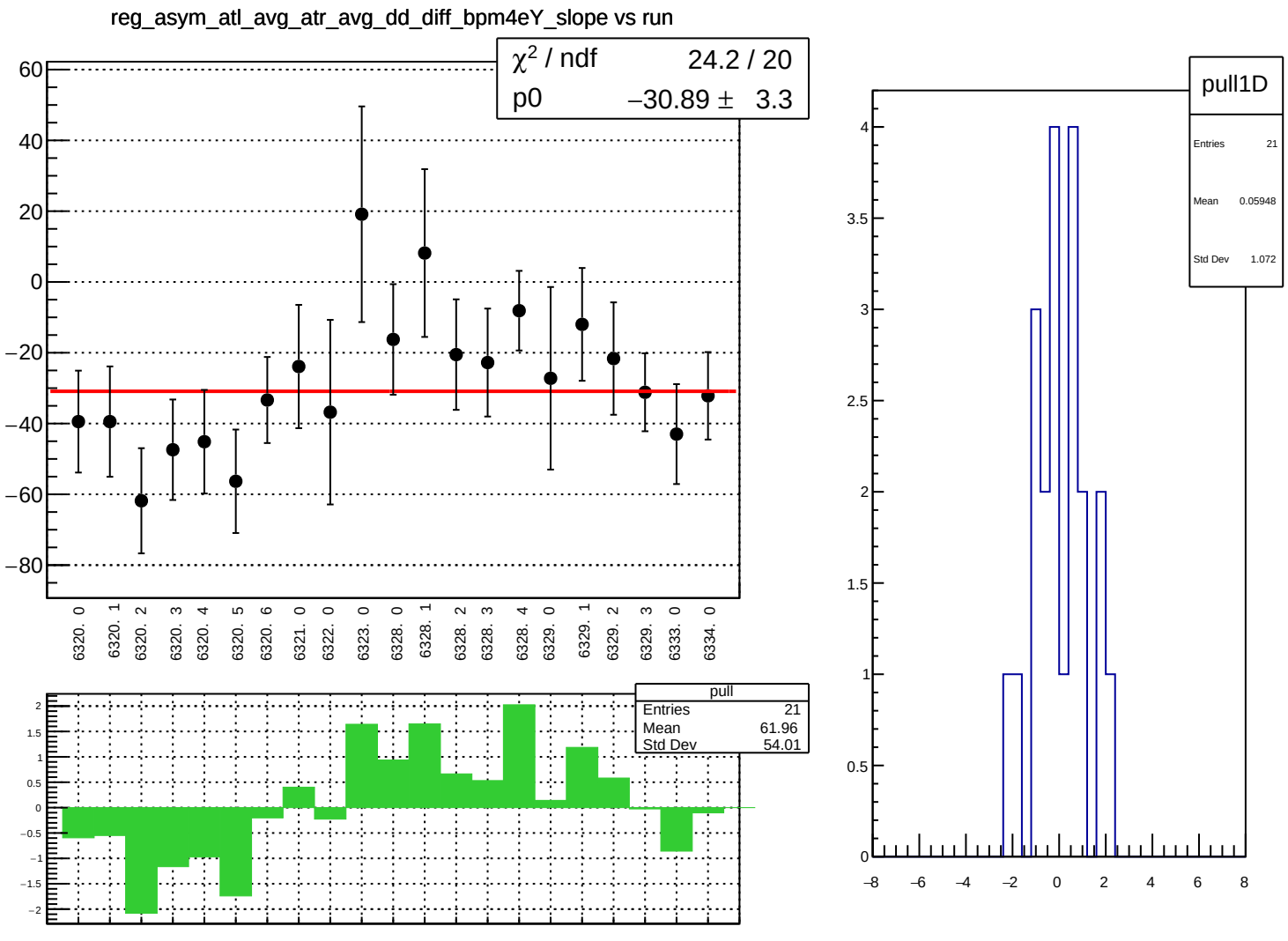

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.77 / 20
p0 70.17 ± 6.383
300
250
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.76
Std Dev 39.16
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.00423
Std Dev 0.7799
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

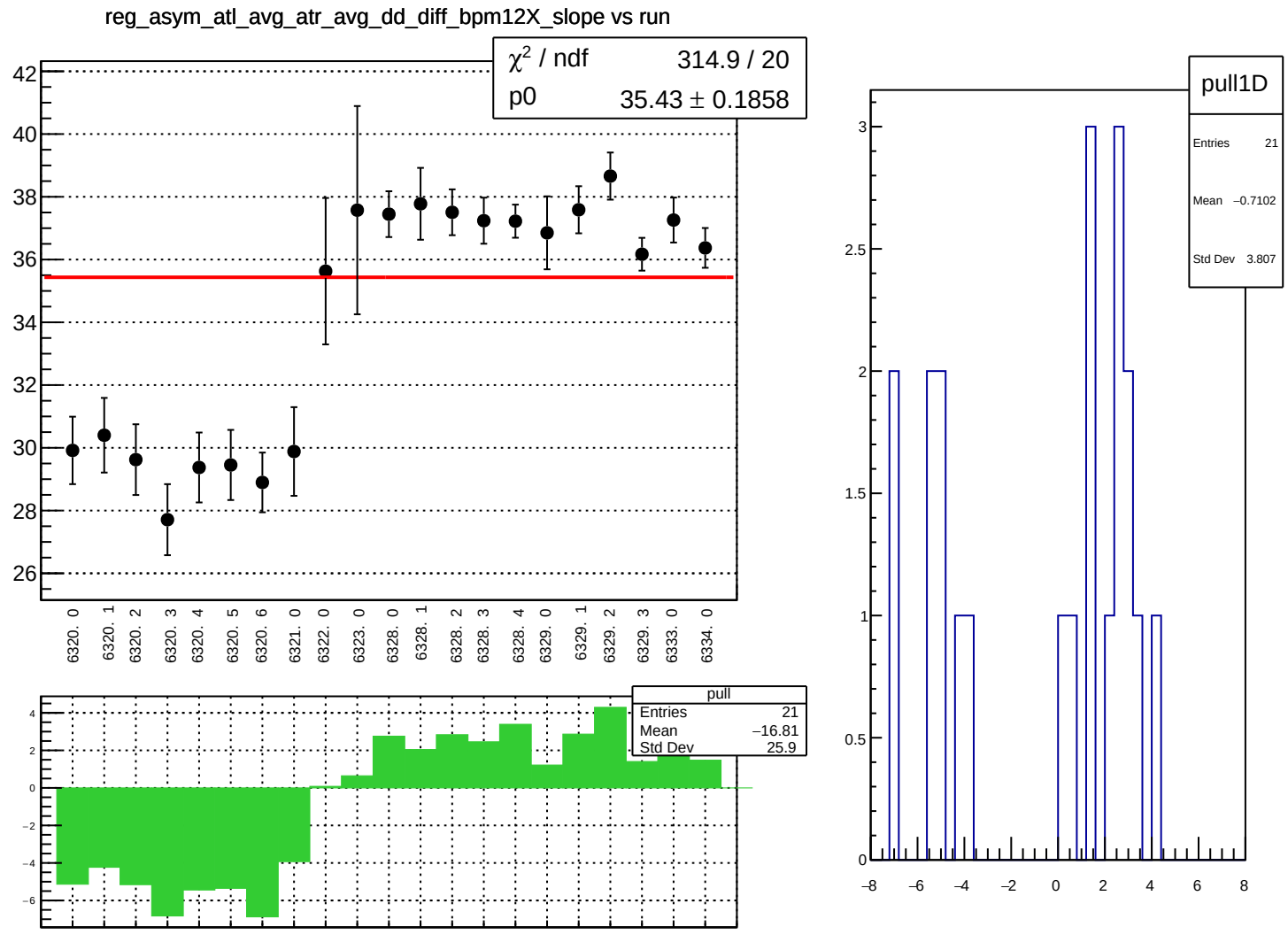

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.58 / 20
p0 9.617 ± 2.84
40
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.49
Std Dev 21.82
1.5
1
0.5
0
−0.5
−1
−1.5

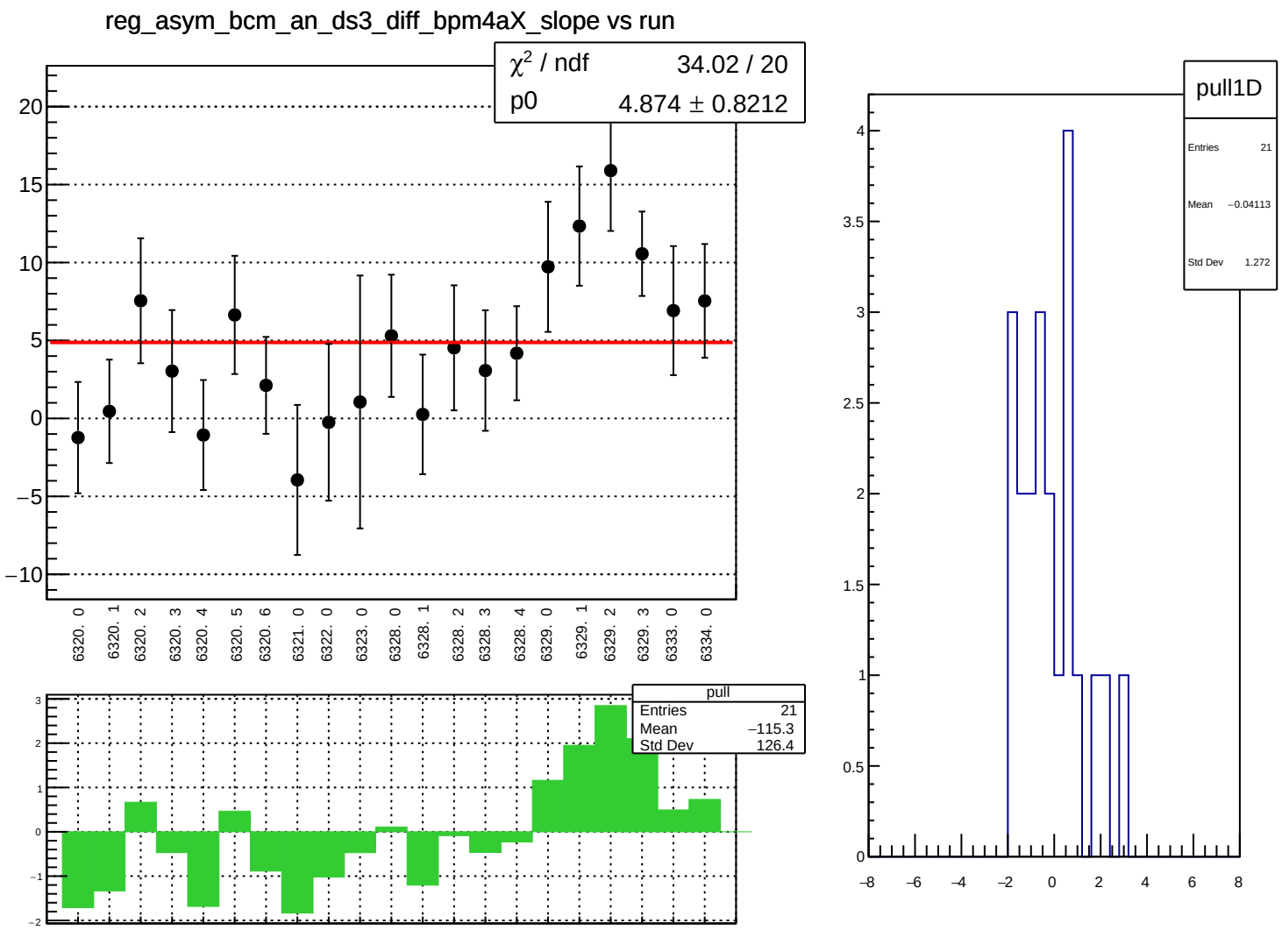

pull1D
Entries 21
Mean −0.06496
Std Dev 0.8015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

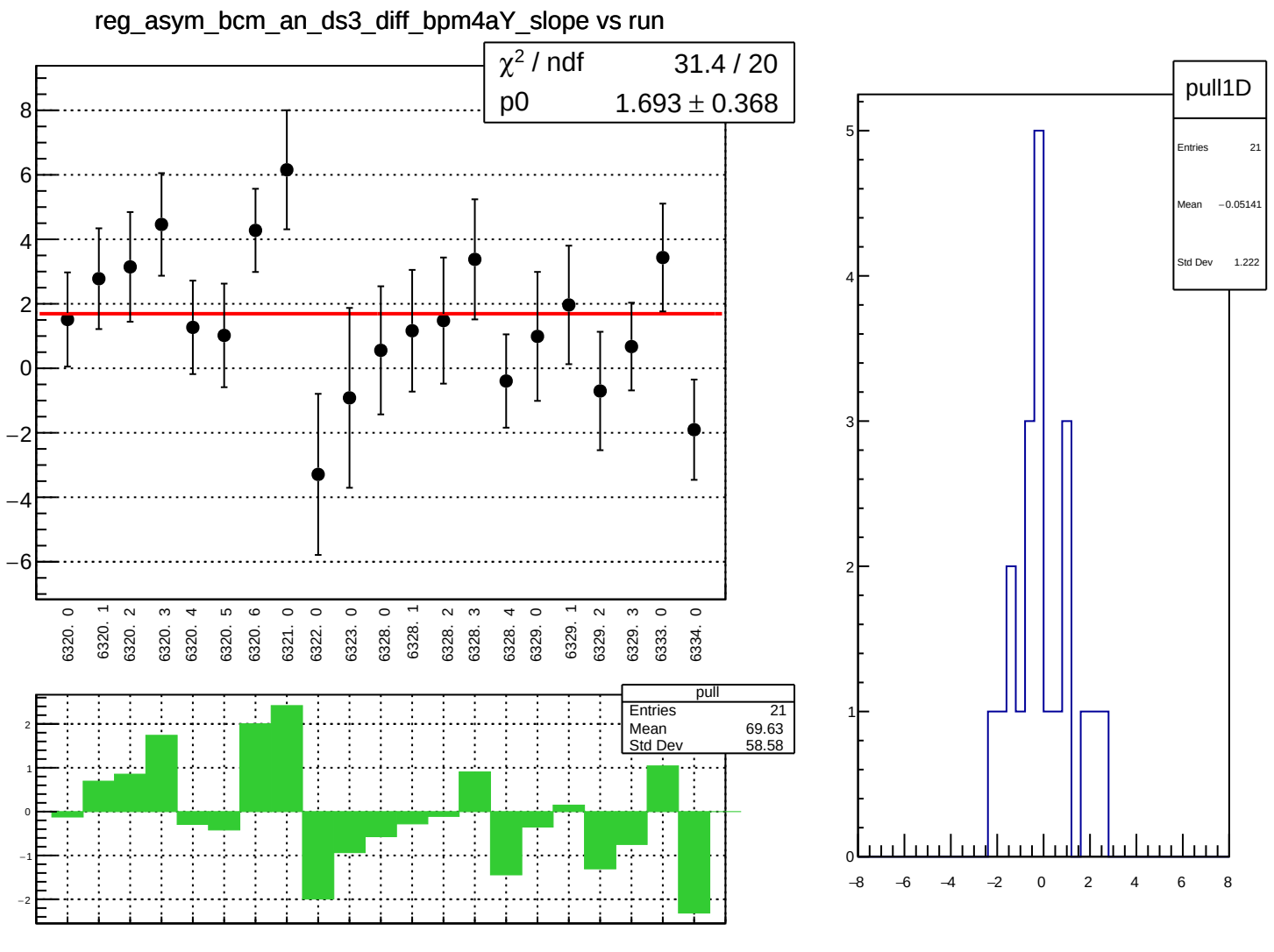

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.86 / 20
p0 −103 ± 6.927
50
0
−50
−100
−150
−200
−250
−300
−350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 213.8
Std Dev 201.4
1
0.5
0
−0.5
−1
−1.5
−2

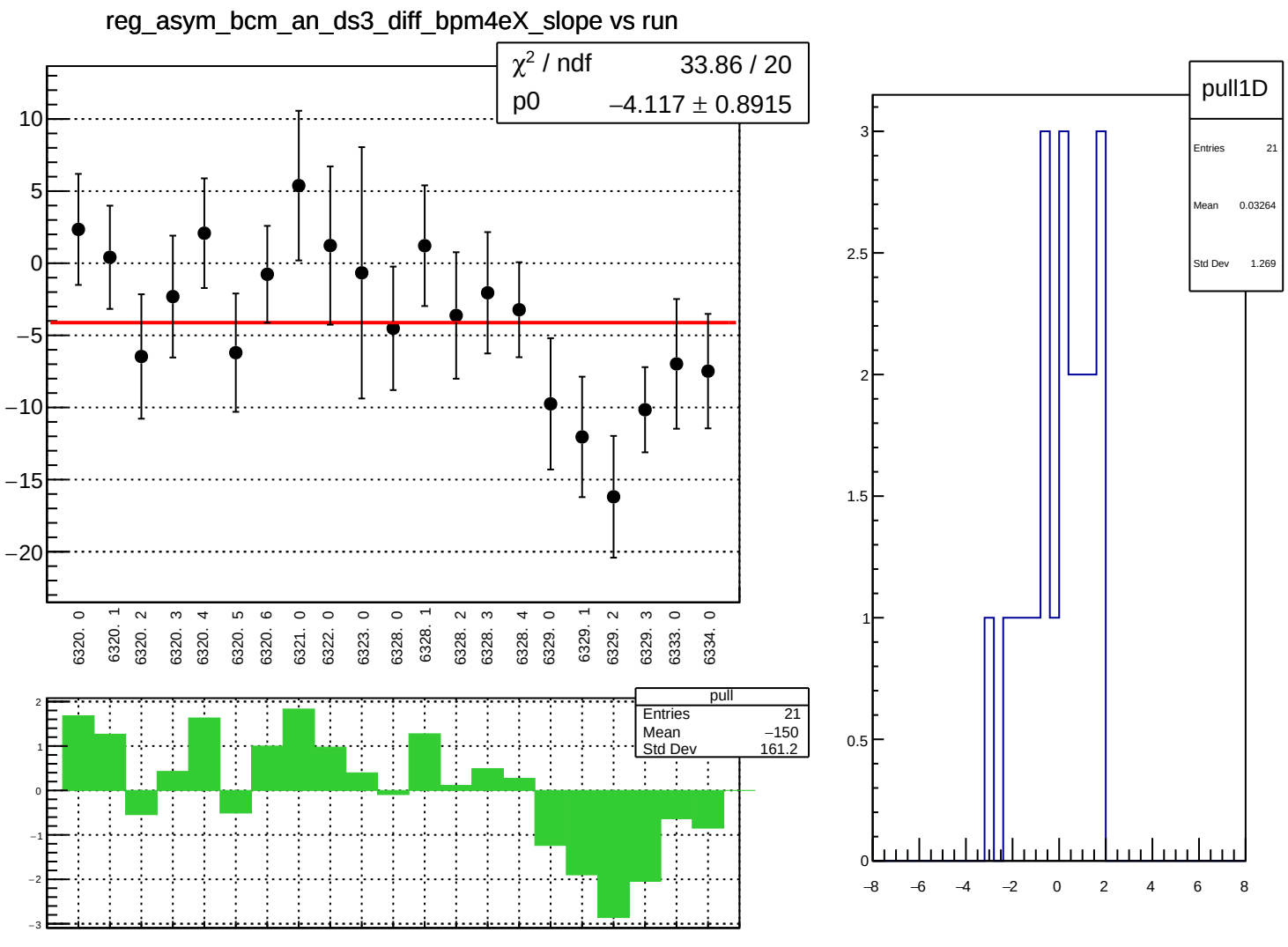

pull1D
Entries 21
Mean 0.002127
Std Dev 0.7825
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

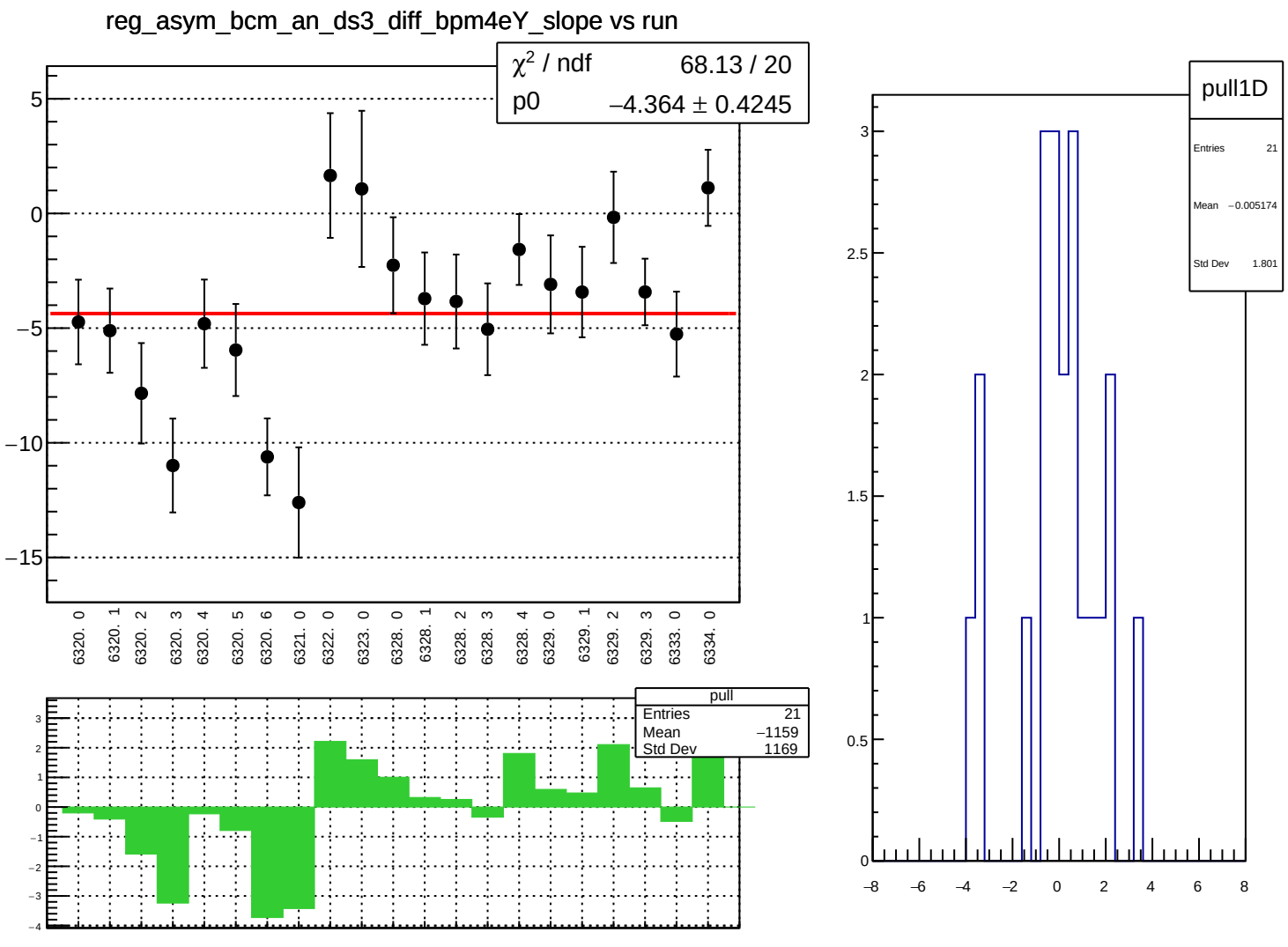

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.2 / 20
p0 −30.89 ± 3.3
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 61.96
Std Dev 54.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.05948
Std Dev 1.072
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

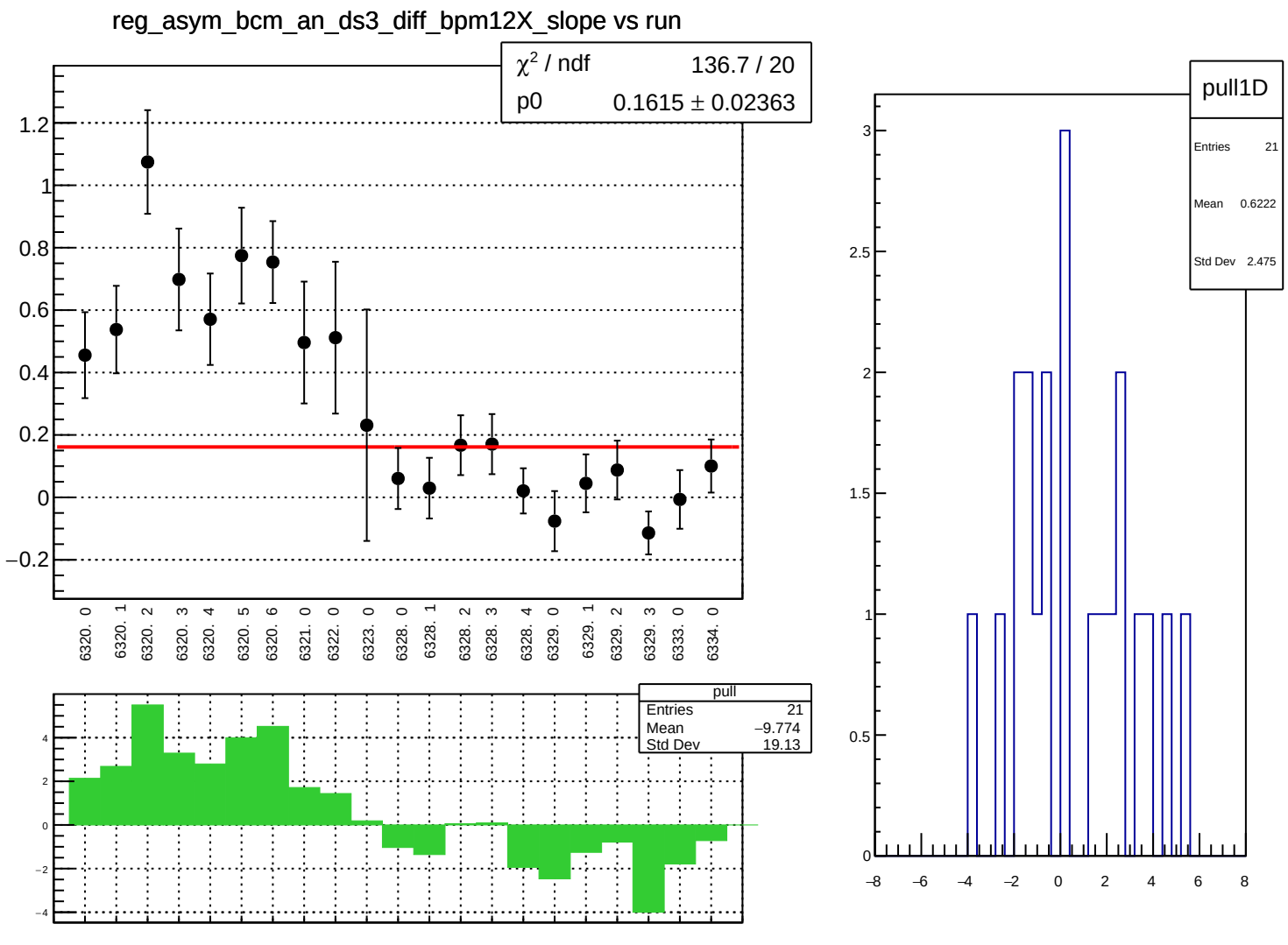

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 314.9 / 20
p0 35.43 ± 0.1858
42
40
38
36
34
32
30
28
26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16.81
Std Dev 25.9
4
2
0
−2
−4
−6
pull1D
Entries 21
Mean −0.7102
Std Dev 3.807
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

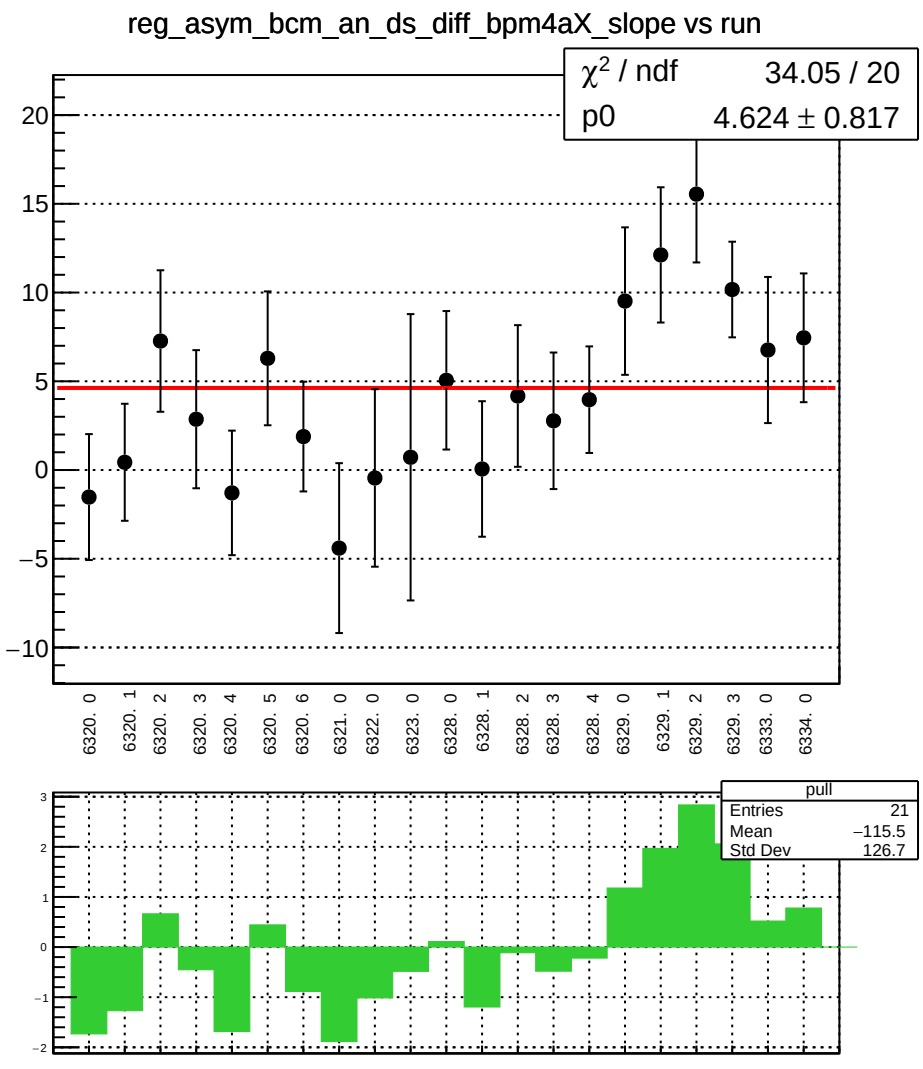

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 34.02 / 20
p0 4.874 ± 0.8212
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −115.3
Std Dev 126.4
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04113
Std Dev 1.272
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

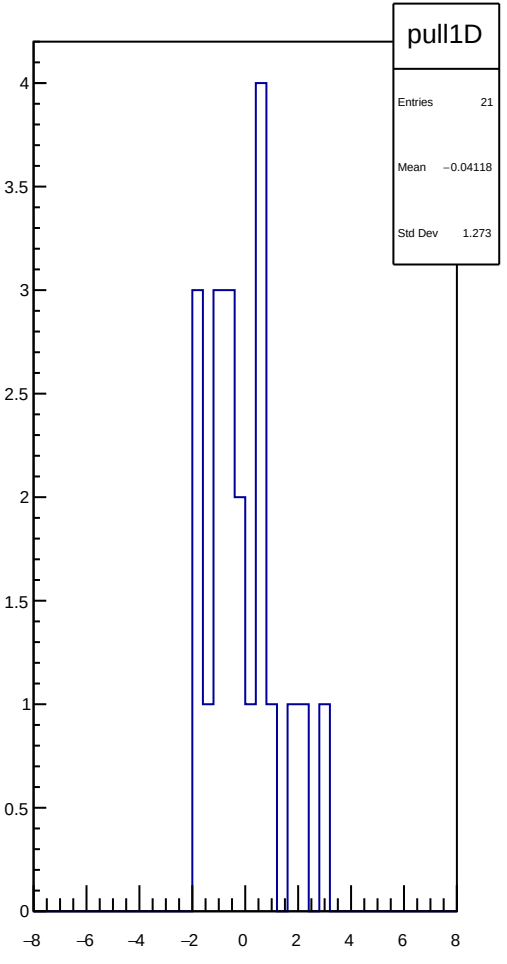

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 31.4 / 20
p0 1.693 ± 0.368
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 69.63
Std Dev 58.58
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05141
Std Dev 1.222
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

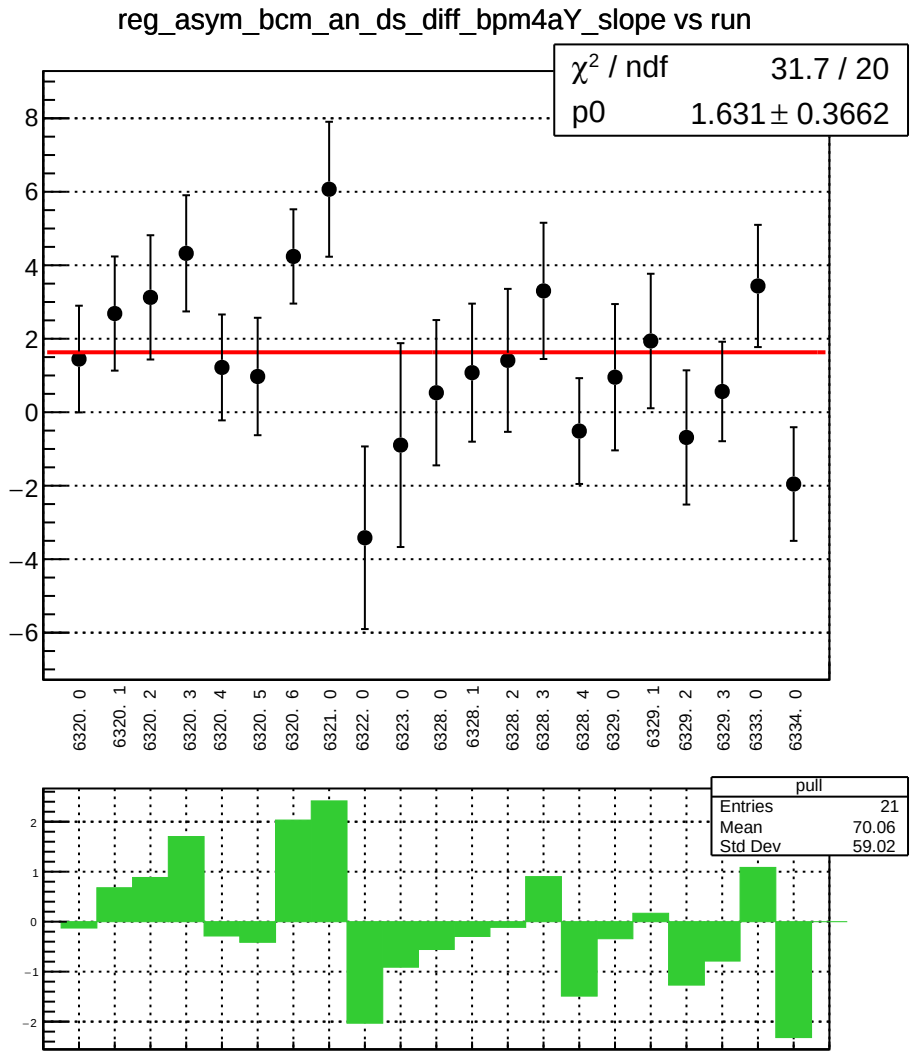

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 33.86 / 20
p0 −4.117 ± 0.8915
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −150
Std Dev 161.2
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.03264
Std Dev 1.269
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

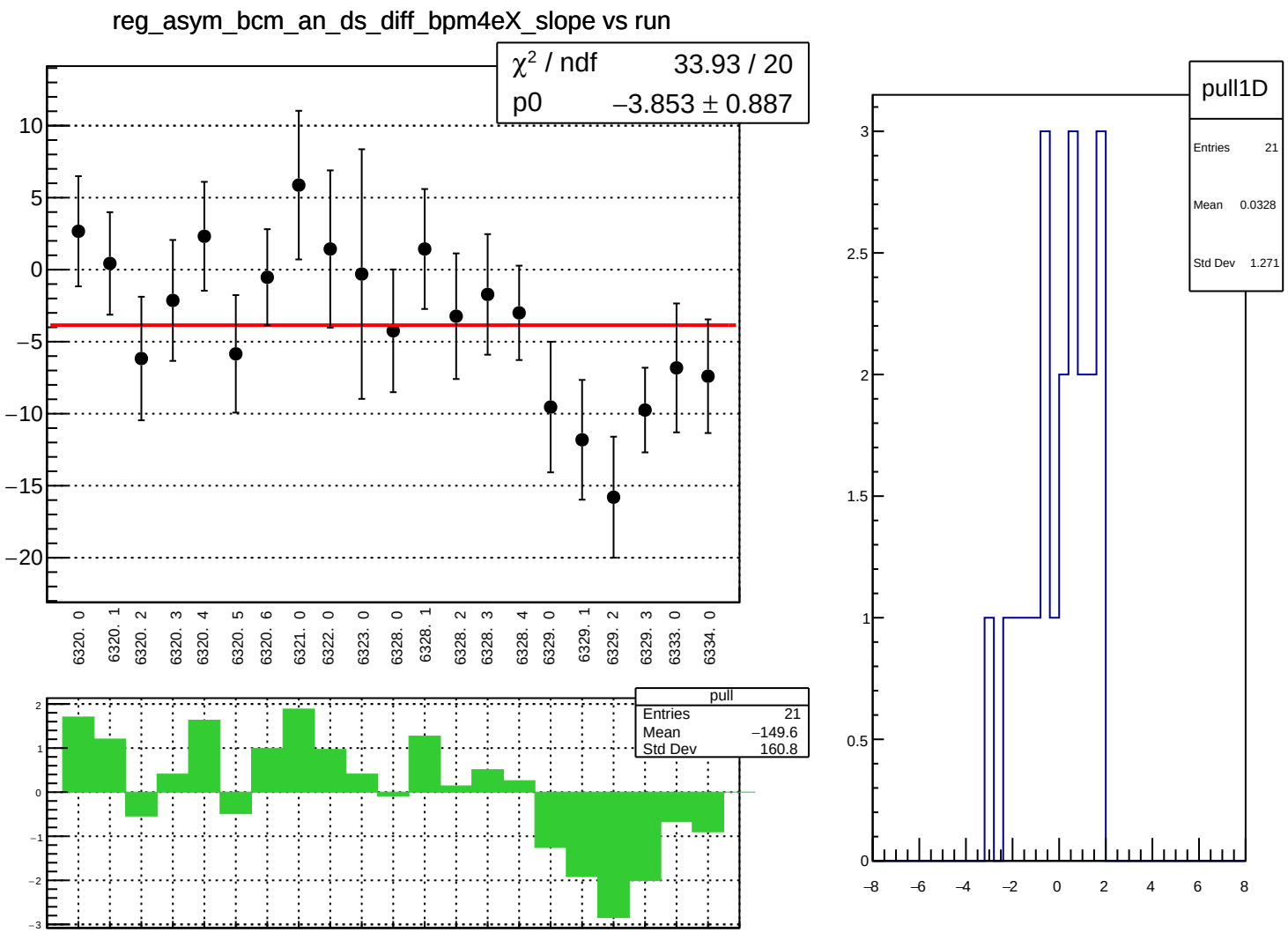

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 68.13 / 20
p0 −4.364 ± 0.4245
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1159
Std Dev 1169
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 21
Mean −0.005174
Std Dev 1.801
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

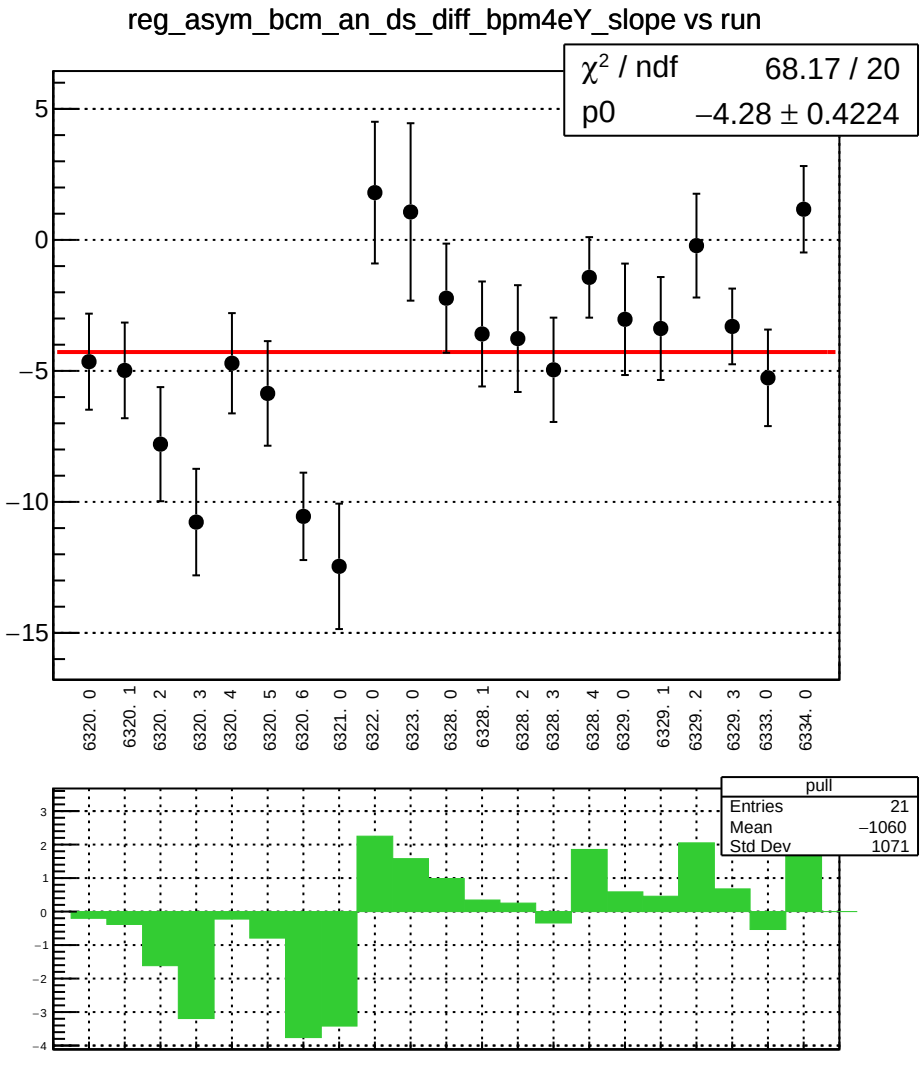

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 136.7 / 20
p0 0.1615 ± 0.02363
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.774
Std Dev 19.13
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.6222
Std Dev 2.475
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

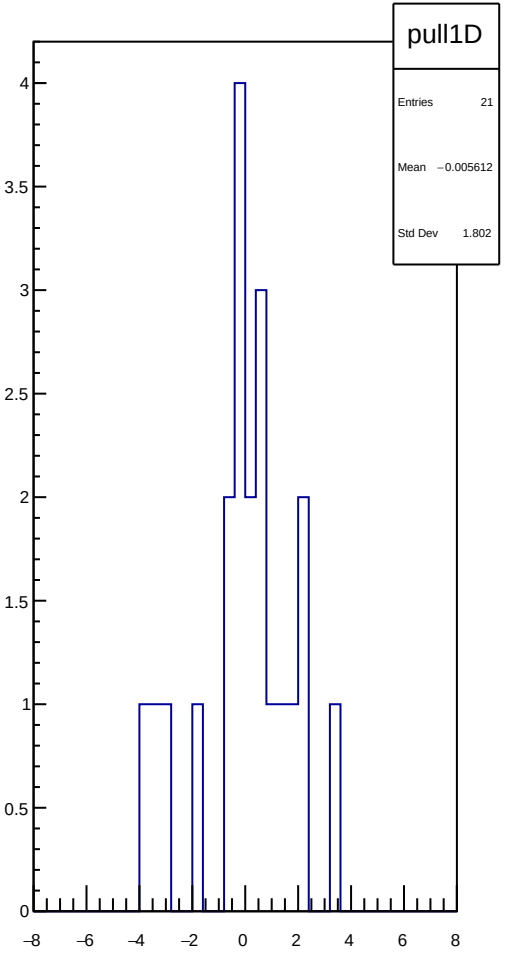

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 34.05 / 20
p0 4.624 ± 0.817
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −115.5
Std Dev 126.7
3
2
1
0
−1
−2

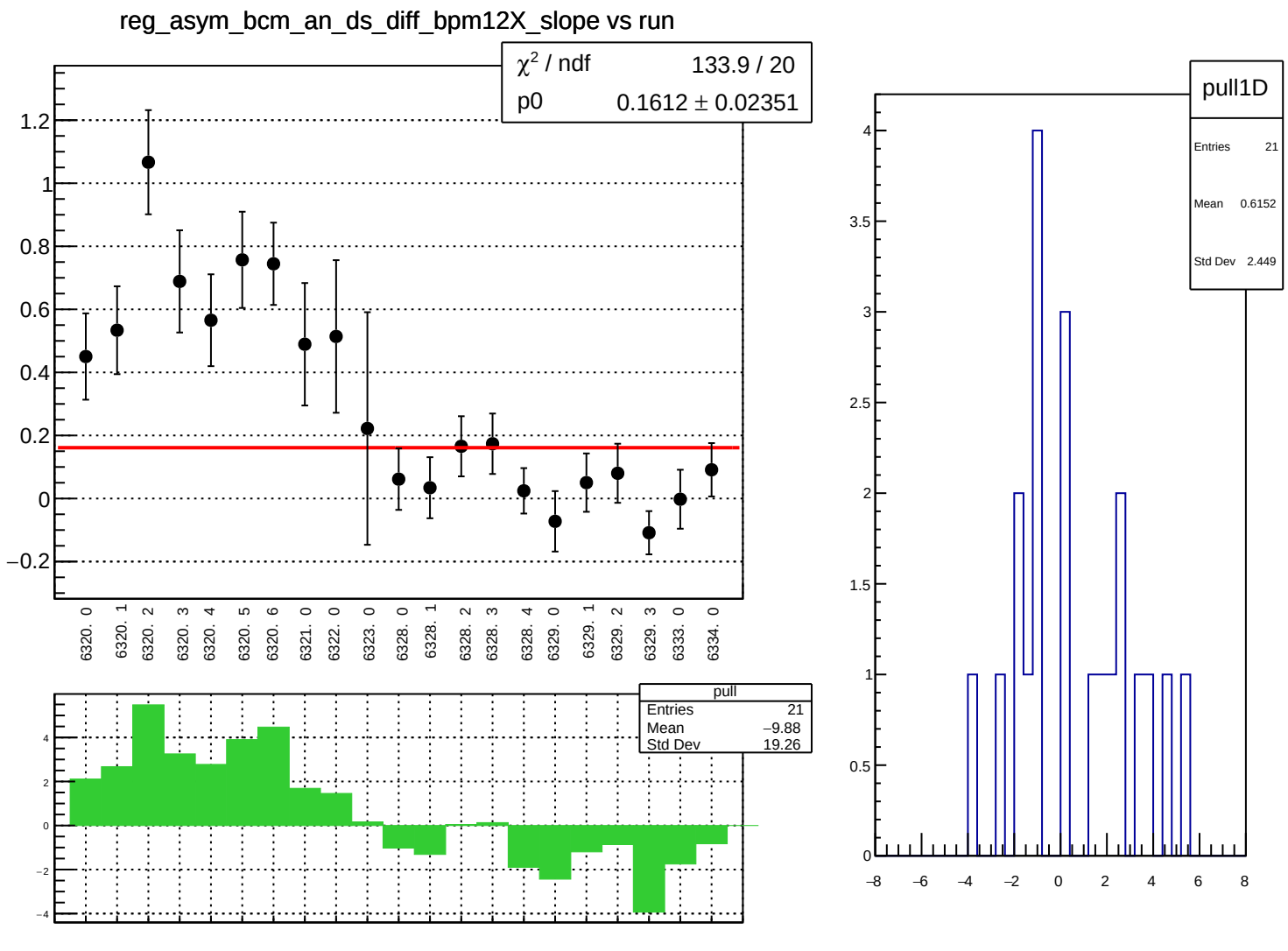

pull1D
Entries 21
Mean −0.04118
Std Dev 1.273
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

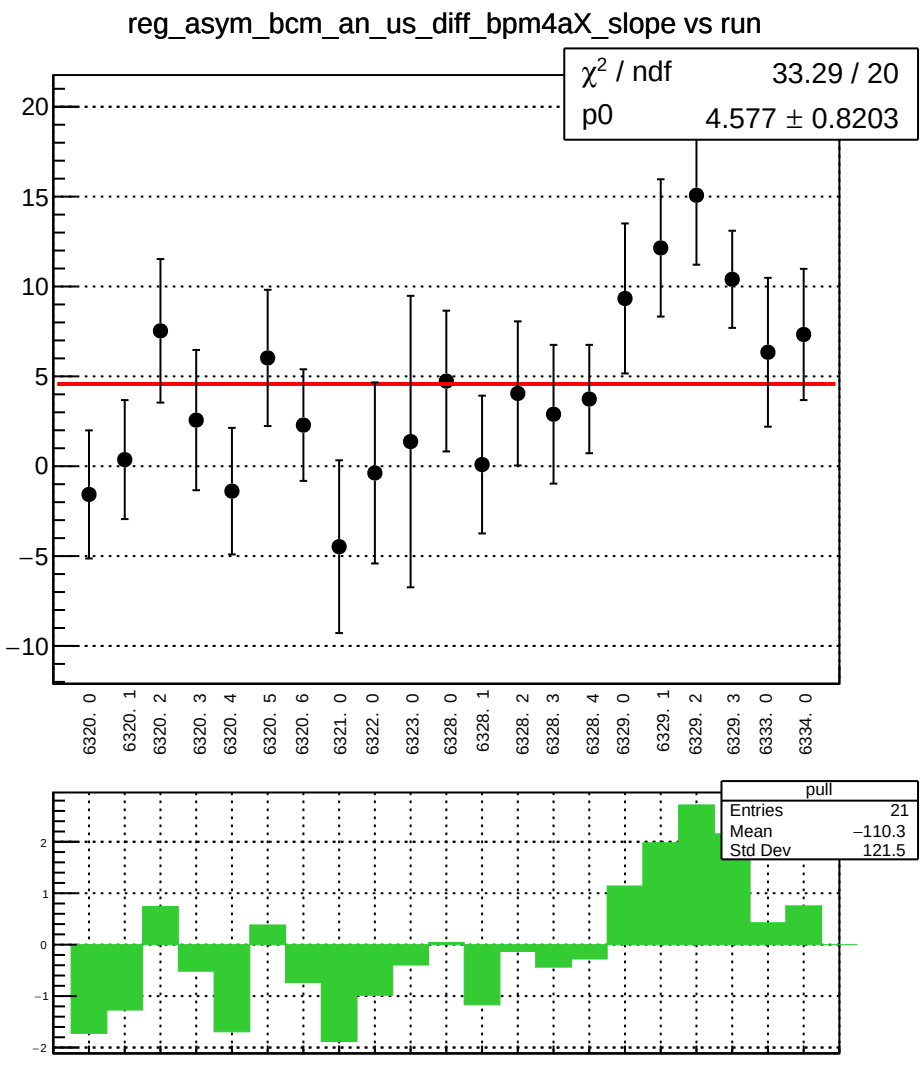

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 31.7 / 20
p0 1.631 ± 0.3662
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 70.06
Std Dev 59.02
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.0508
Std Dev 1.228
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

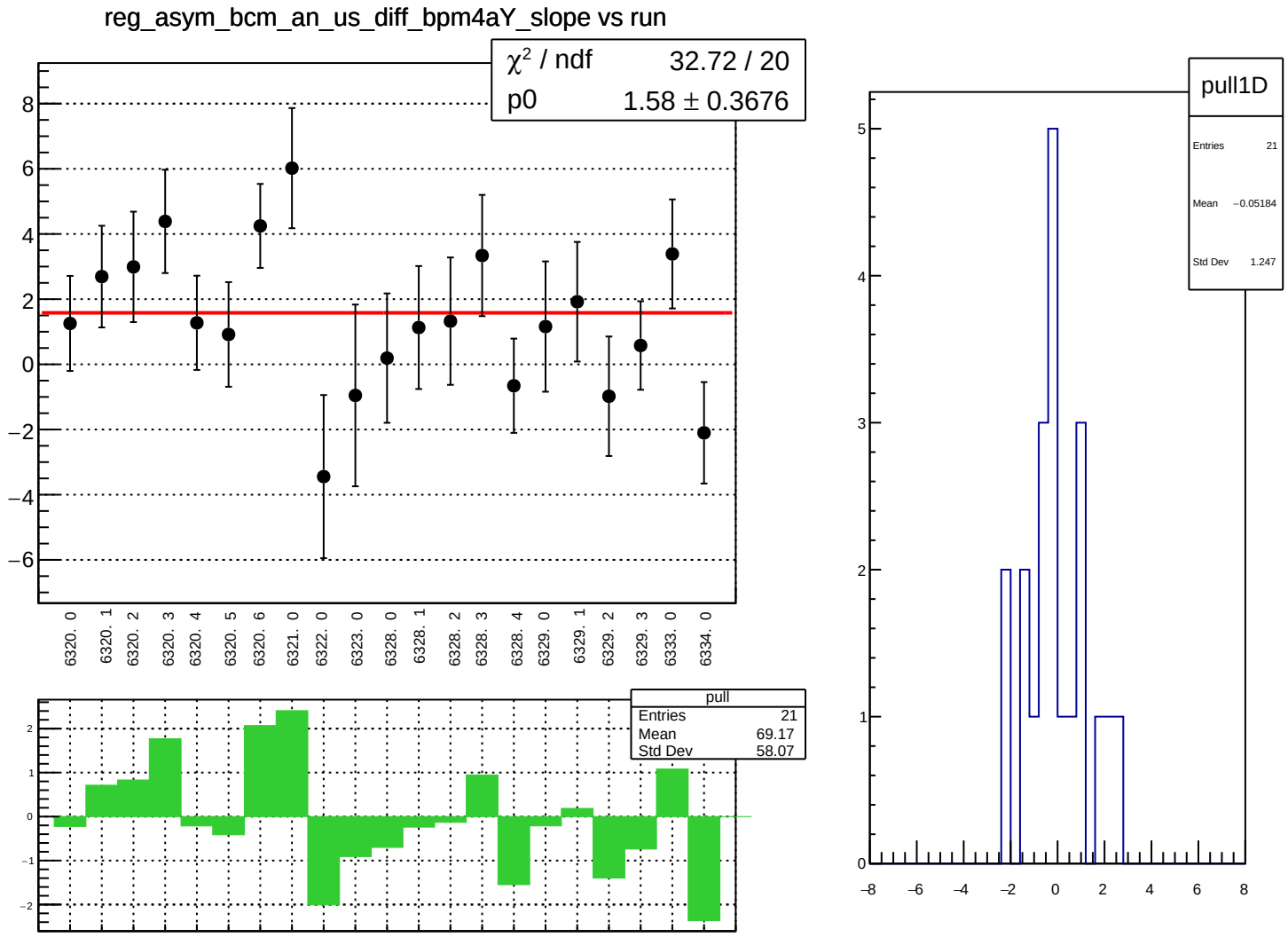

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 33.93 / 20
p0 −3.853 ± 0.887
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −149.6
Std Dev 160.8
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.0328
Std Dev 1.271
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

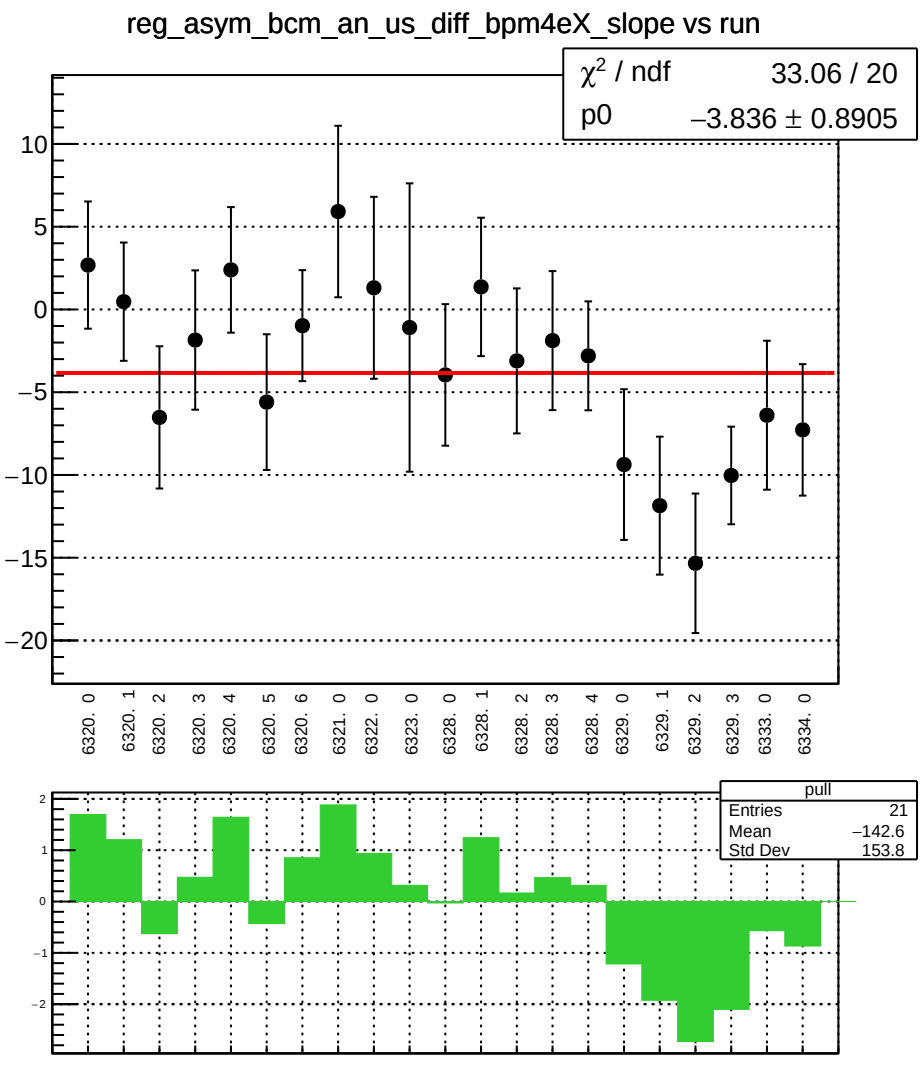

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 68.17 / 20
p0 −4.28 ± 0.4224
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1060
Std Dev 1071
3
2
1
0
−1
−2
−3
−4

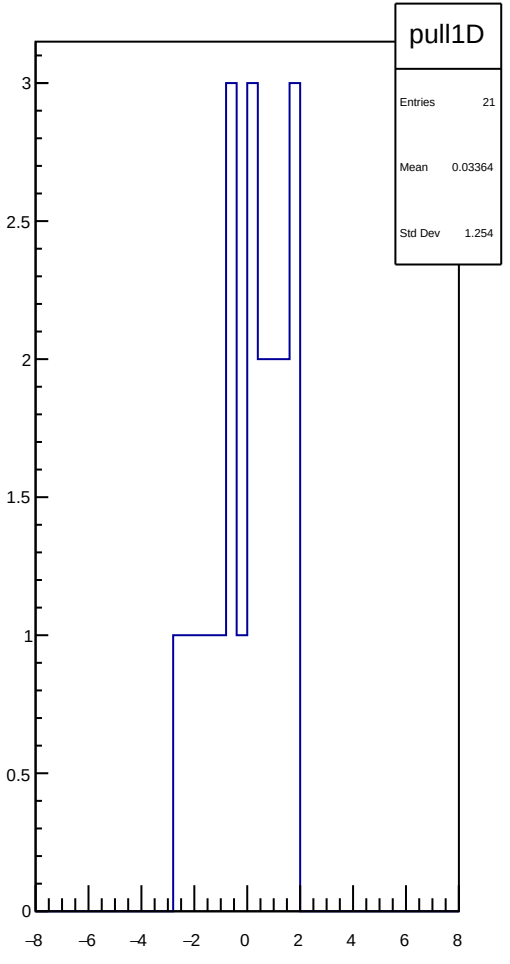

pull1D
Entries 21
Mean −0.005612
Std Dev 1.802
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

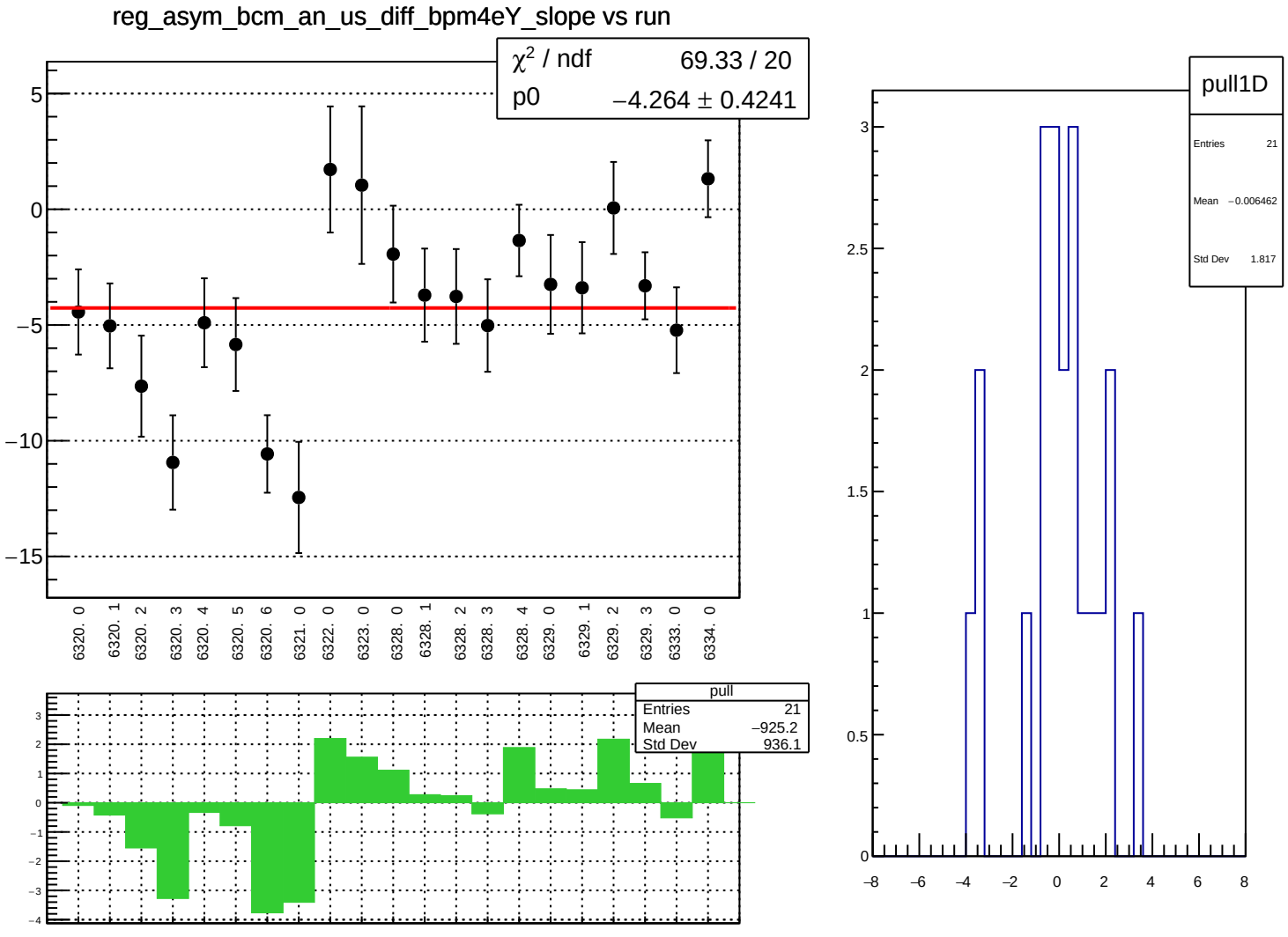

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 133.9 / 20
p0 0.1612 ± 0.02351
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.88
Std Dev 19.26
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.6152
Std Dev 2.449
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

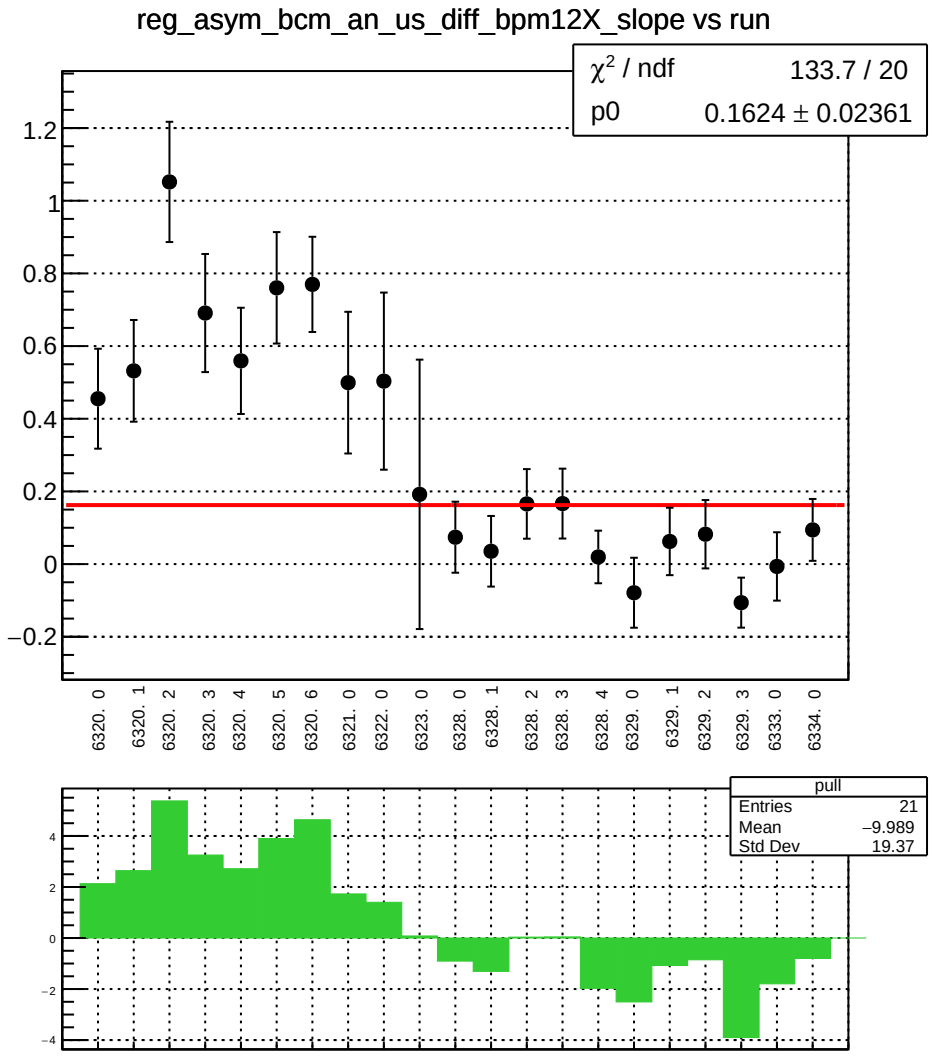

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 33.29 / 20
p0 4.577 ± 0.8203
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −110.3
Std Dev 121.5
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04214
Std Dev 1.258
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

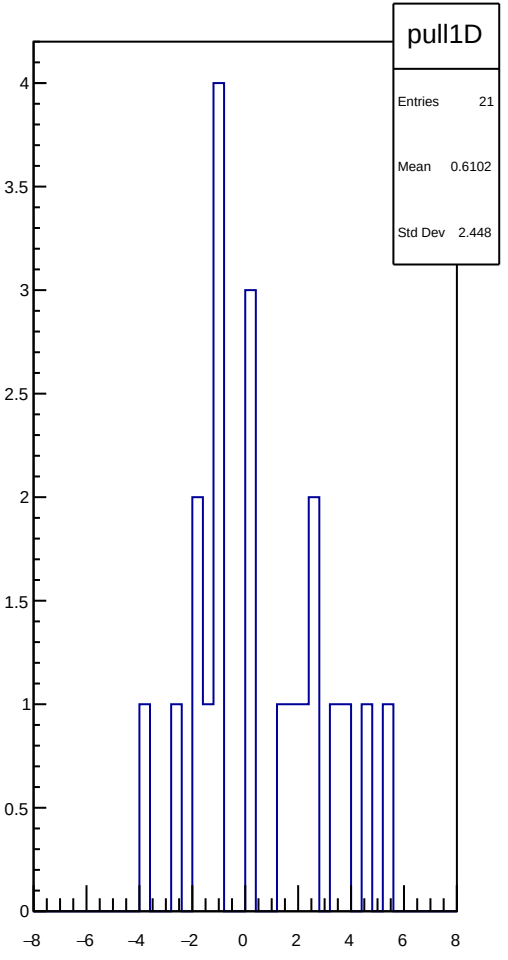

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 32.72 / 20
p0 1.58 ± 0.3676
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 69.17
Std Dev 58.07
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05184
Std Dev 1.247
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

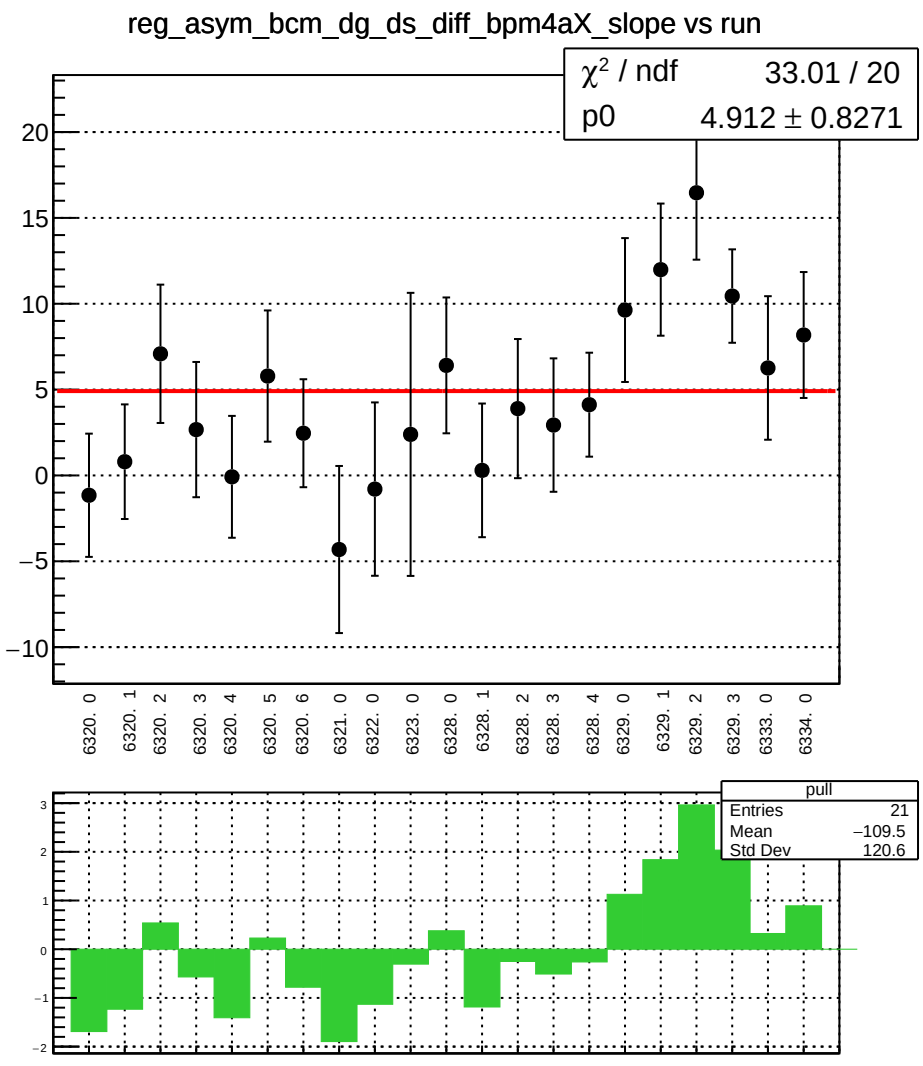

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 33.06 / 20
p0 −3.836 ± 0.8905
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −142.6
Std Dev 153.8
2
1
0
−1
−2

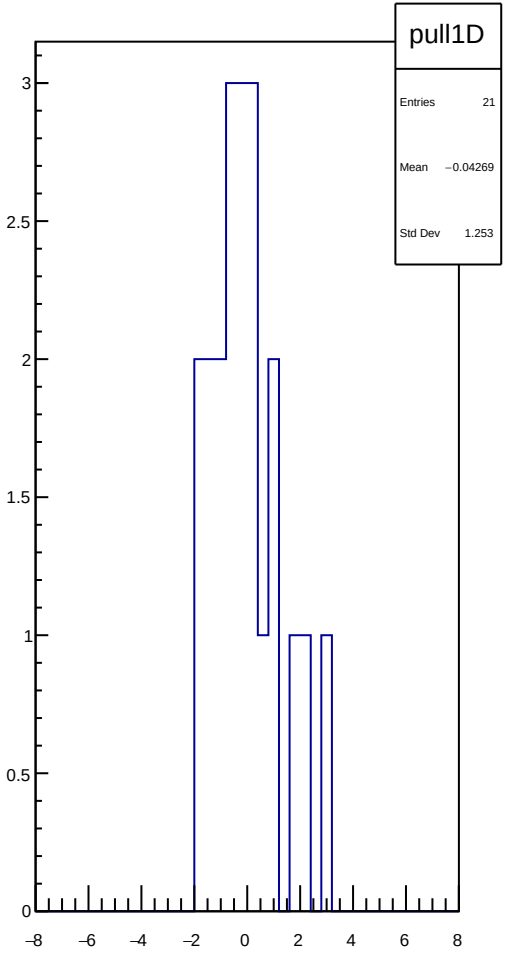

pull1D
Entries 21
Mean 0.03364
Std Dev 1.254
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

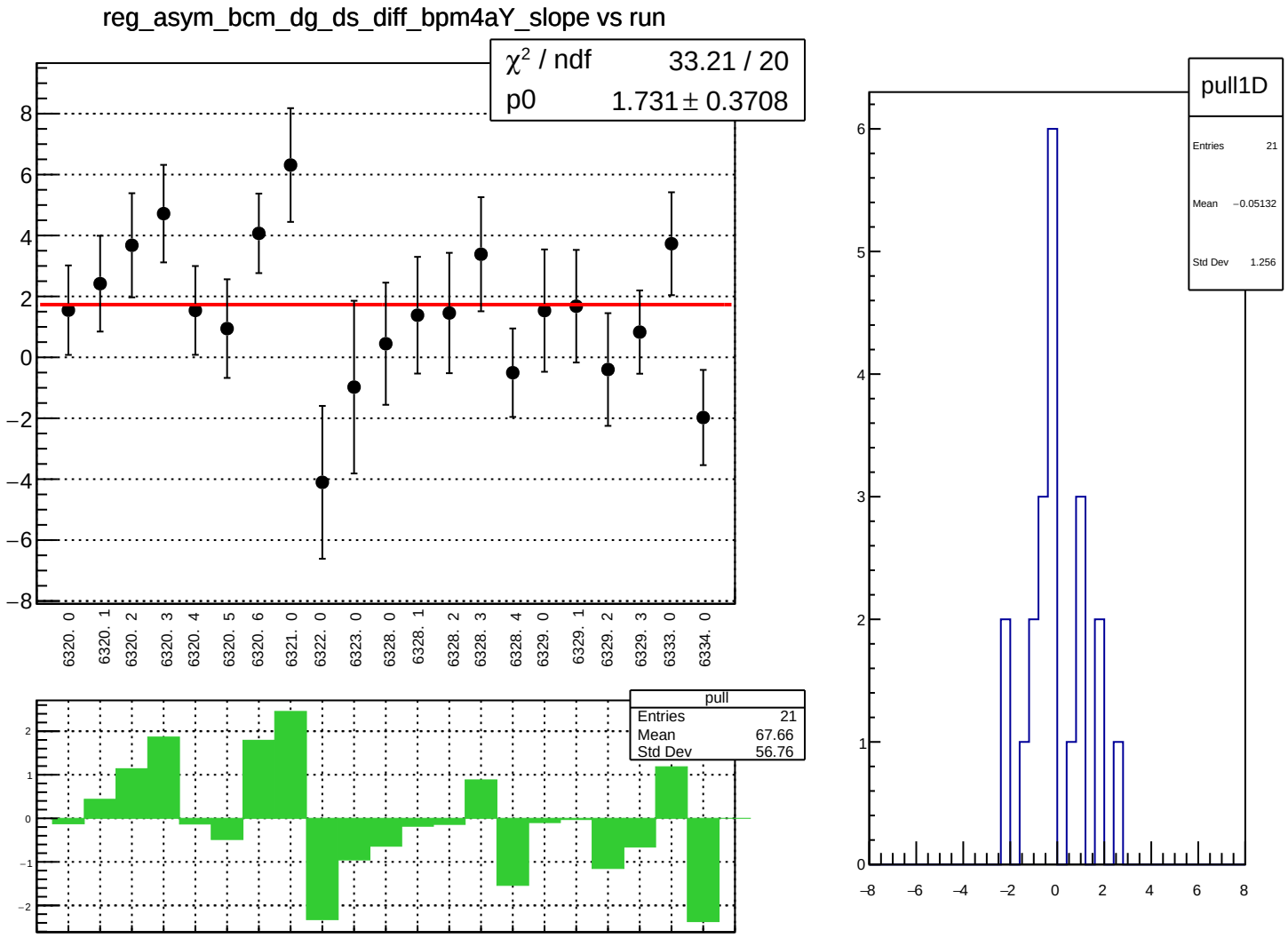

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 69.33 / 20
p0 −4.264 ± 0.4241
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −925.2
Std Dev 936.1
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 21
Mean −0.006462
Std Dev 1.817
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

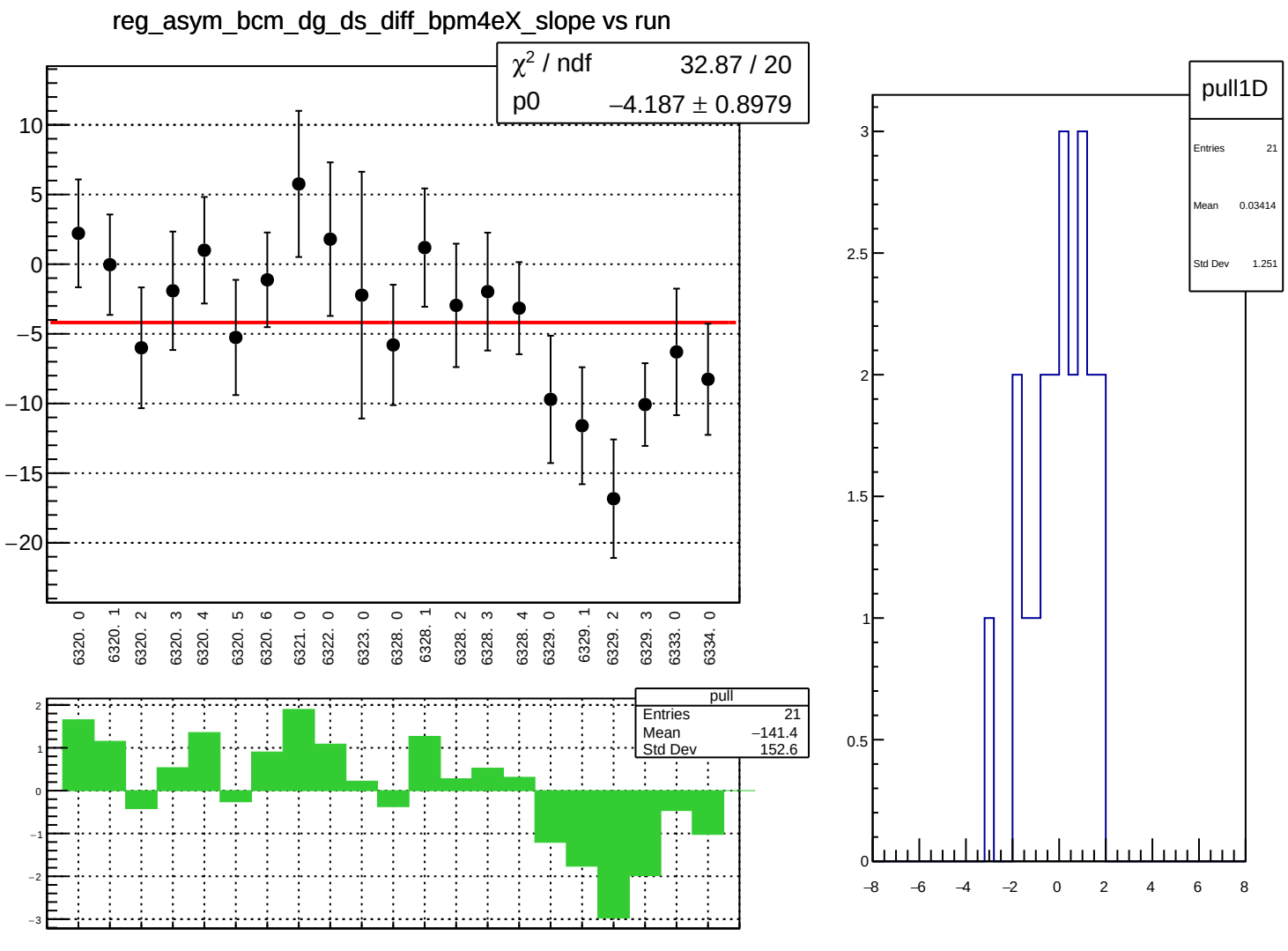

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 133.7 / 20
p0 0.1624 ± 0.02361
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.989
Std Dev 19.37
4
2
0
−2
−4

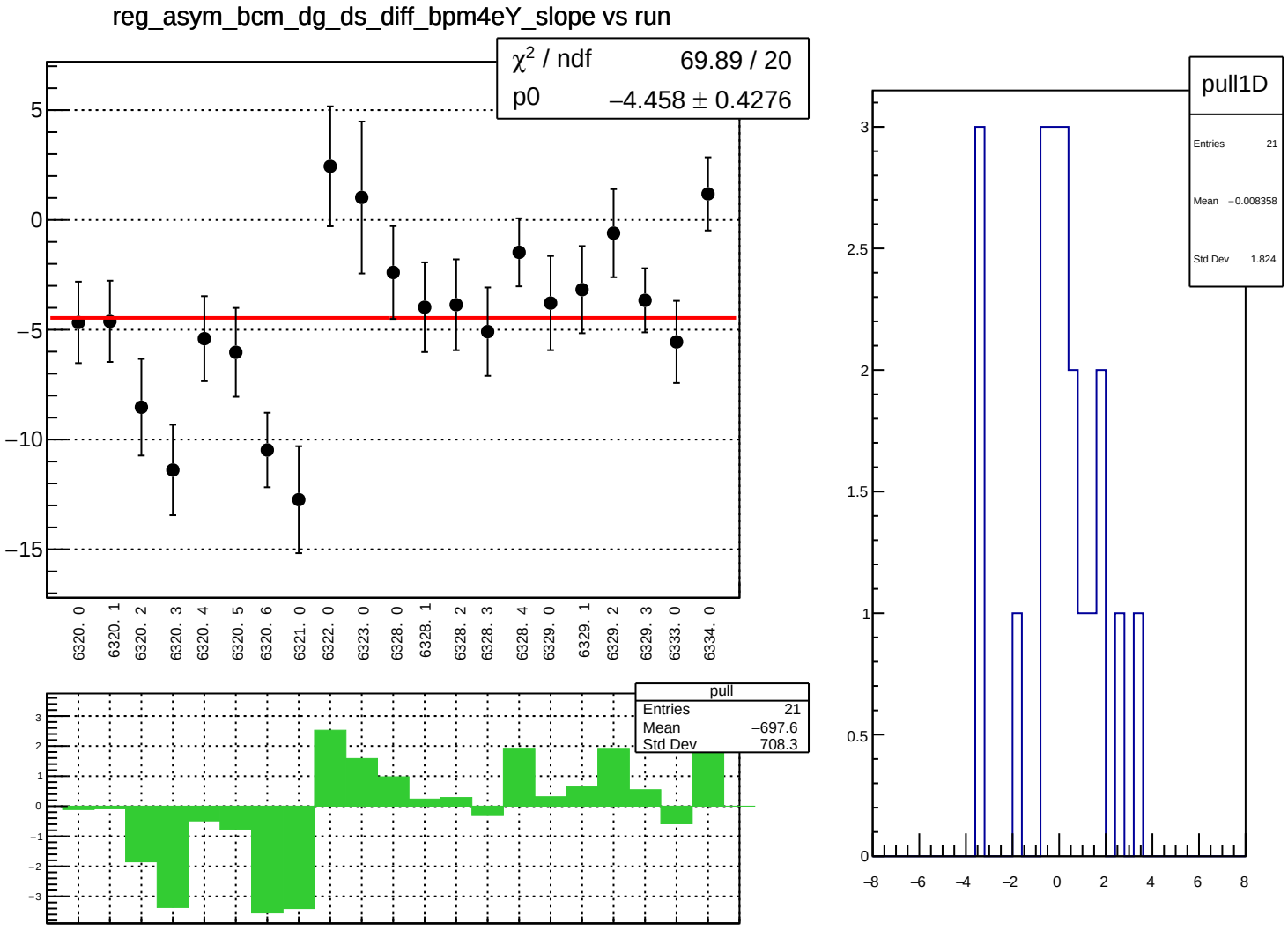

pull1D
Entries 21
Mean 0.6102
Std Dev 2.448
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

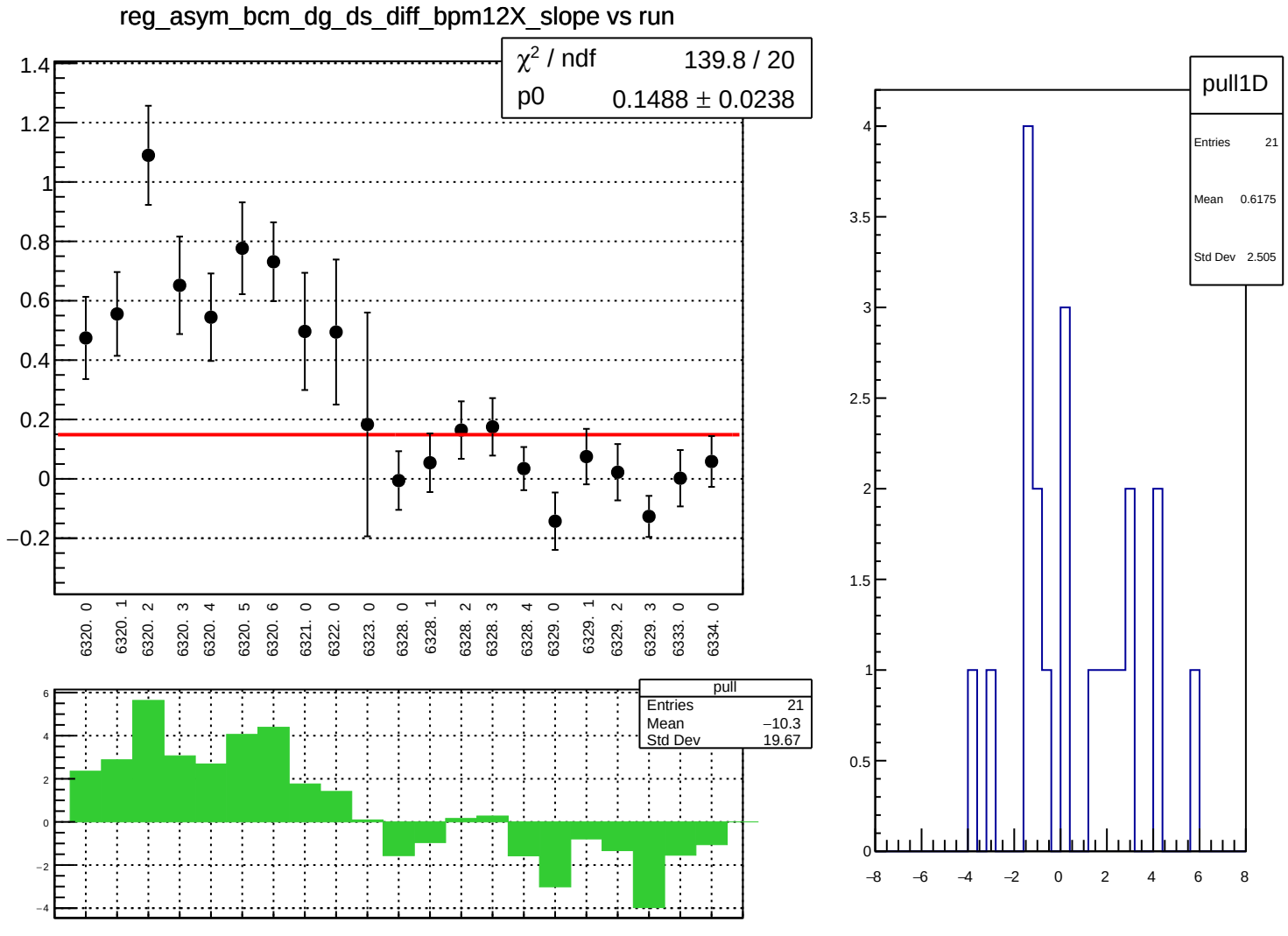

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 33.01 / 20
p0 4.912 ± 0.8271
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −109.5
Std Dev 120.6
3
2
1
0
−1
−2

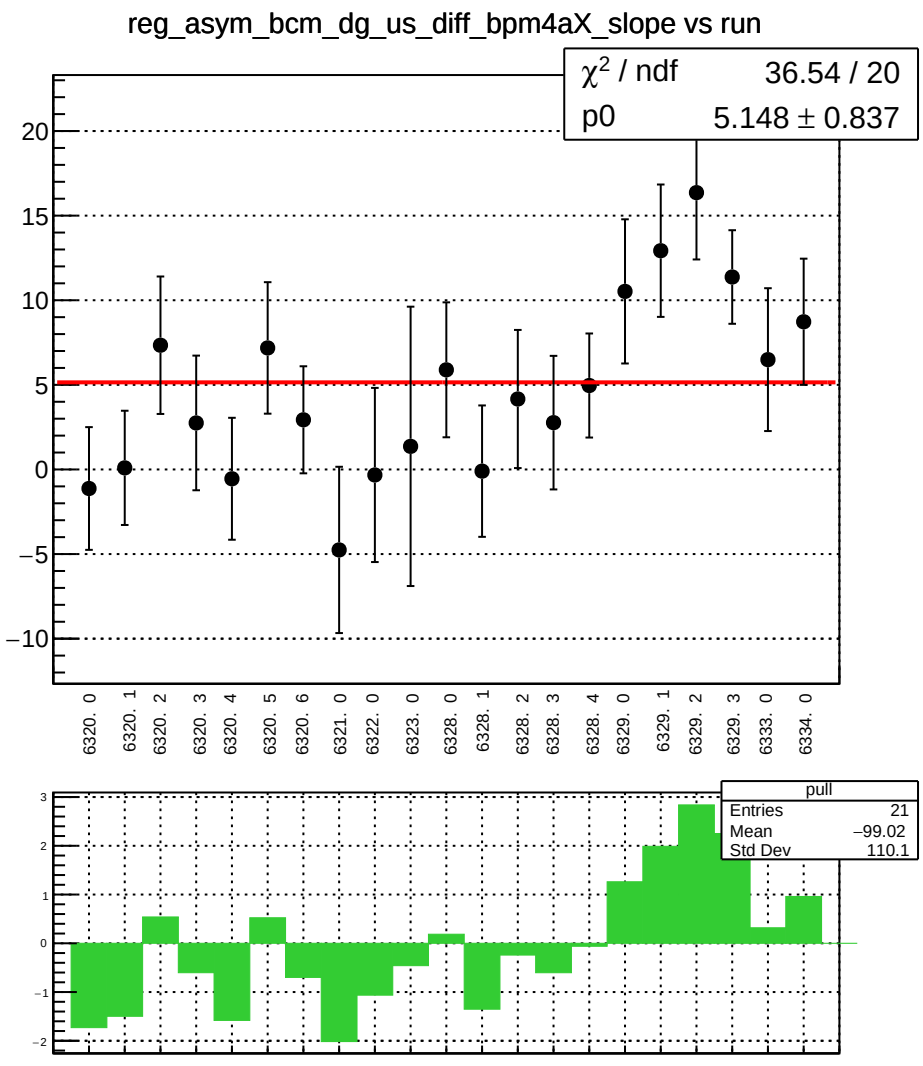

pull1D
Entries 21
Mean −0.04269
Std Dev 1.253
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

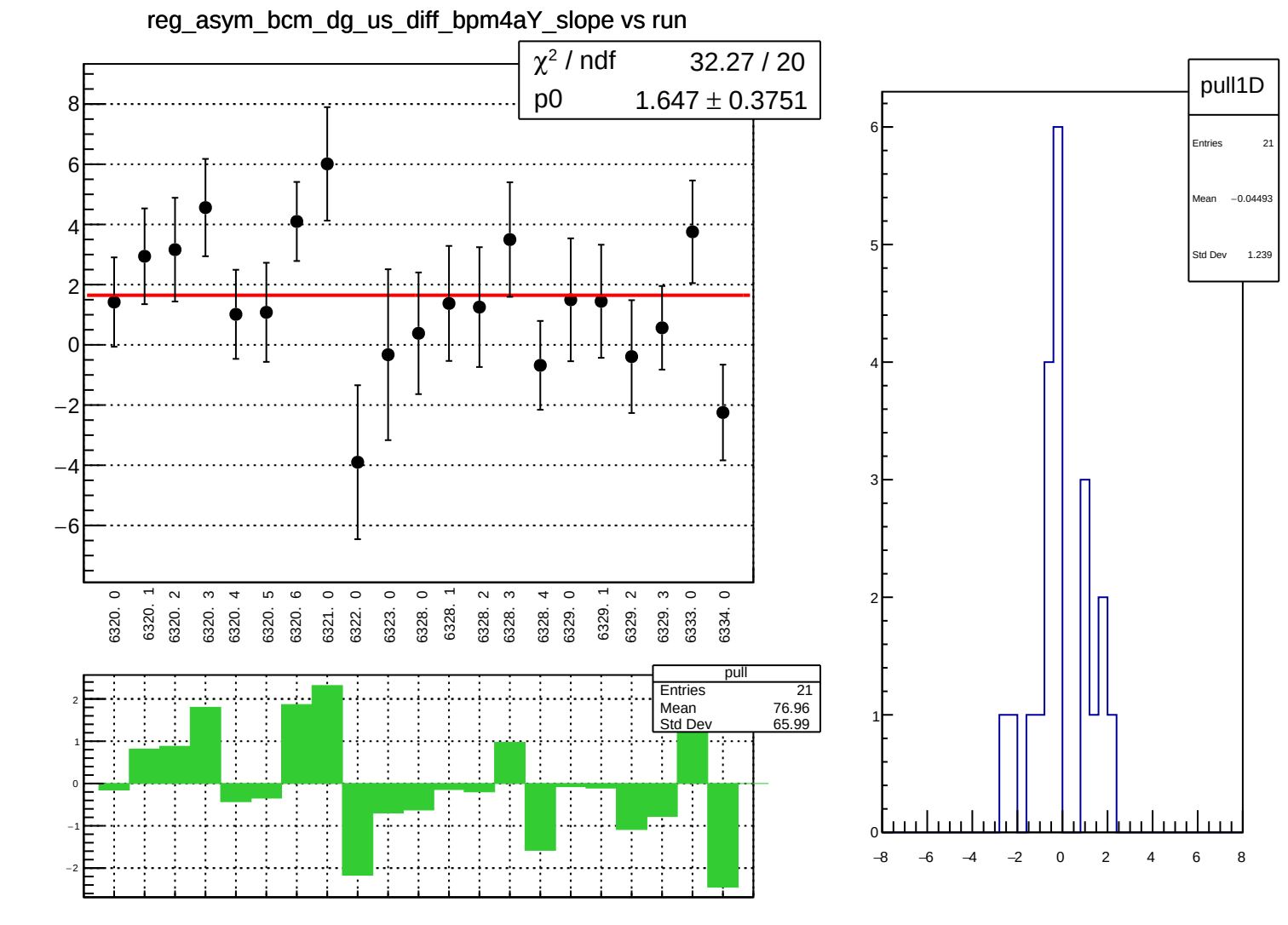

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 33.21 / 20
p0 1.731 ± 0.3708
8
6
4
2
0
−2
−4
−6
−8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 67.66
Std Dev 56.76
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05132
Std Dev 1.256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

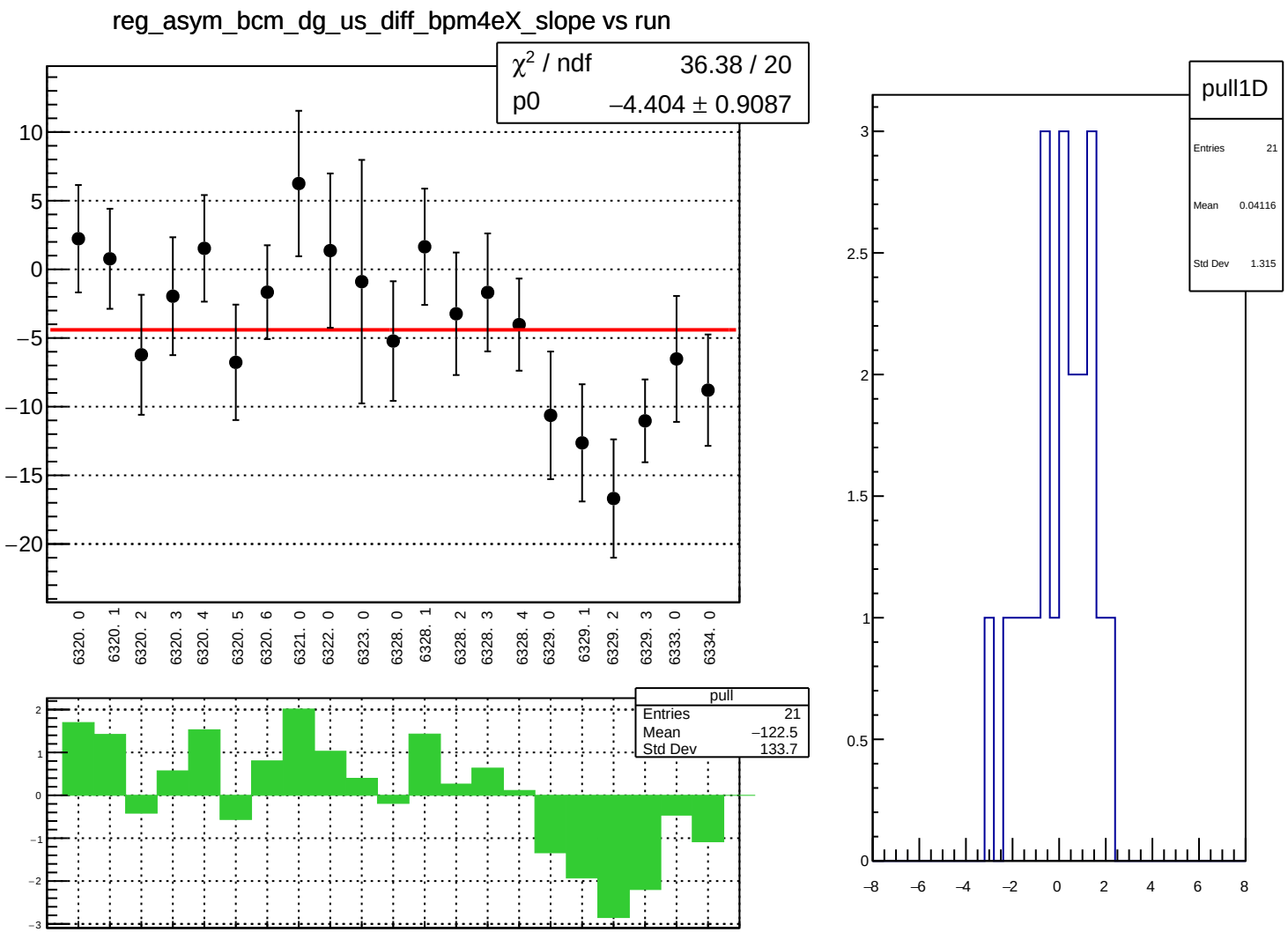

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 32.87 / 20
p0 −4.187 ± 0.8979
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −141.4
Std Dev 152.6
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.03414
Std Dev 1.251
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

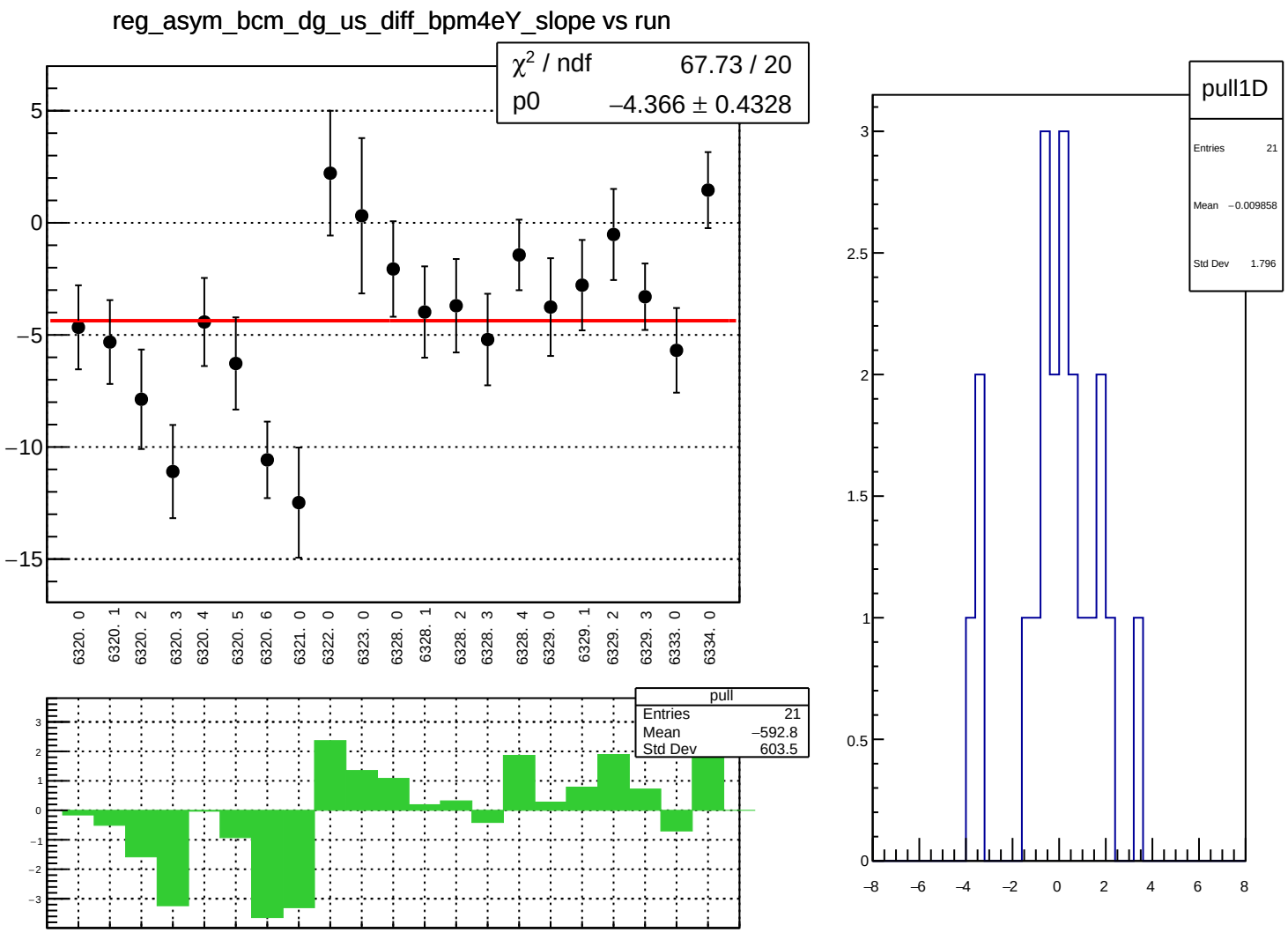

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 69.89 / 20
p0 −4.458 ± 0.4276
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −697.6
Std Dev 708.3
3
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean −0.008358
Std Dev 1.824
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

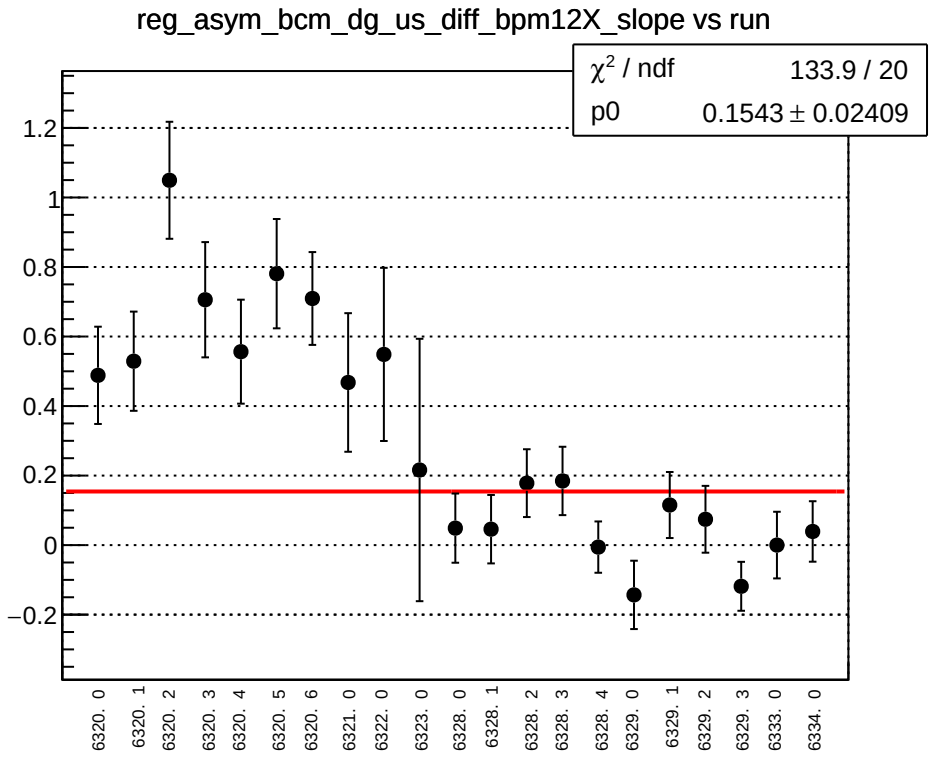

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 139.8 / 20
p0 0.1488 ± 0.0238
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.3
Std Dev 19.67
6
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.6175
Std Dev 2.505
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 36.54 / 20
p0 5.148 ± 0.837
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −99.02
Std Dev 110.1
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04943
Std Dev 1.318
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 32.27 / 20
p0 1.647 ± 0.3751
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 76.96
Std Dev 65.99
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04493
Std Dev 1.239
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 36.38 / 20
p0 −4.404 ± 0.9087
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −122.5
Std Dev 133.7
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.04116
Std Dev 1.315
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 67.73 / 20
p0 −4.366 ± 0.4328
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −592.8
Std Dev 603.5
3
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean −0.009858
Std Dev 1.796
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 133.9 / 20
p0 0.1543 ± 0.02409
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
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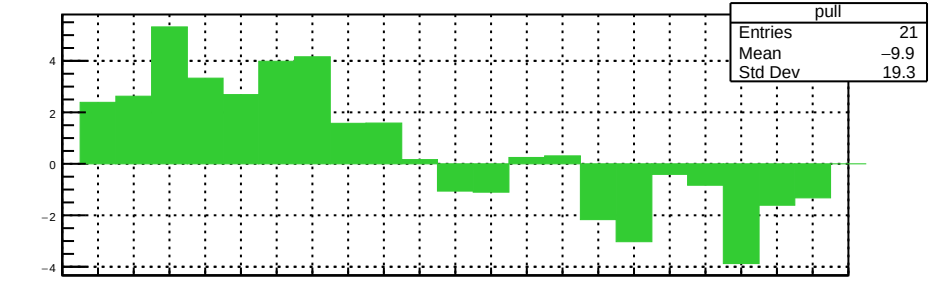
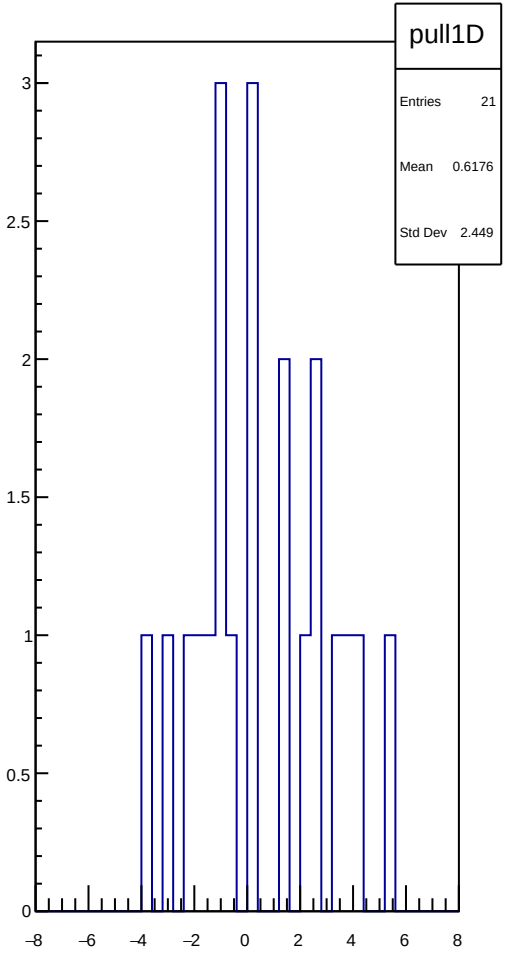
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


pull
Entries 21
Mean −9.9
Std Dev 19.3
4
2
0
−2
−4


pull1D
Entries 21
Mean 0.6176
Std Dev 2.449
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8