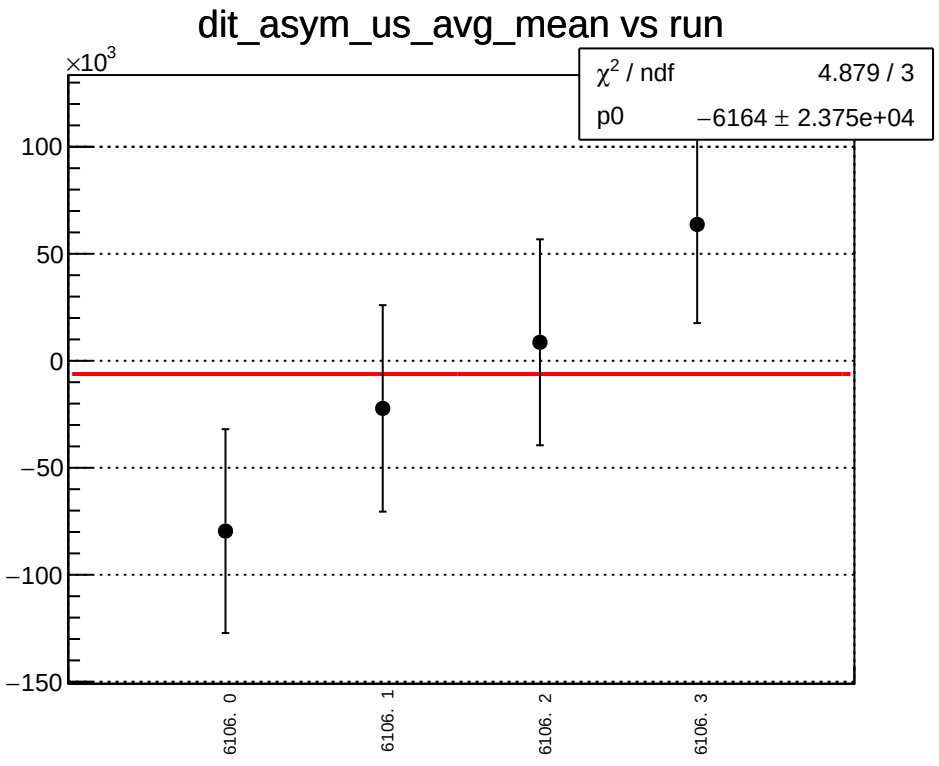
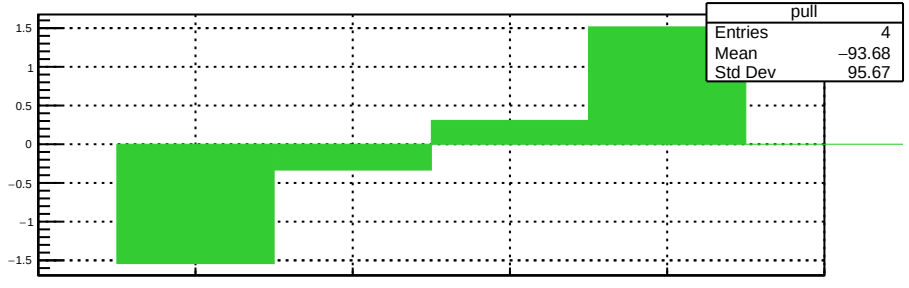
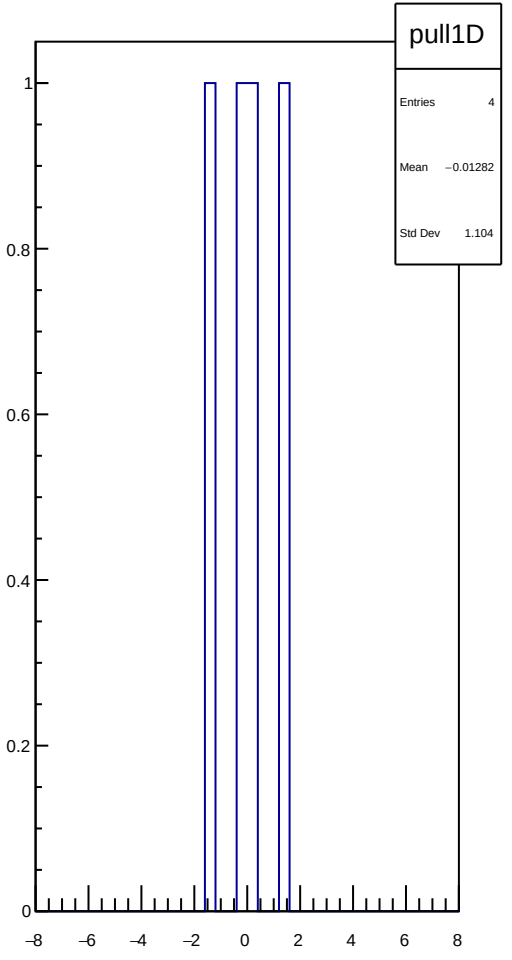
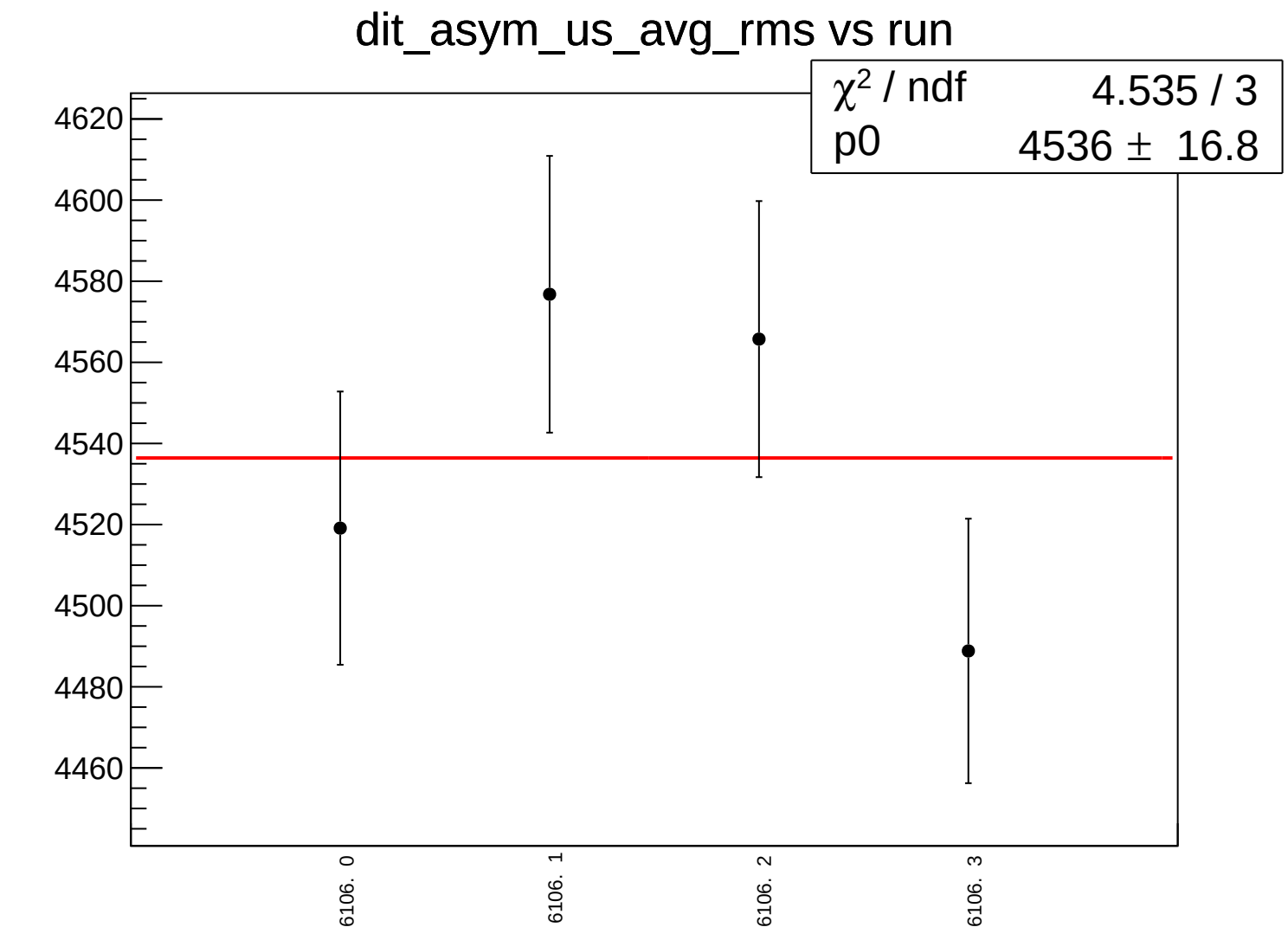
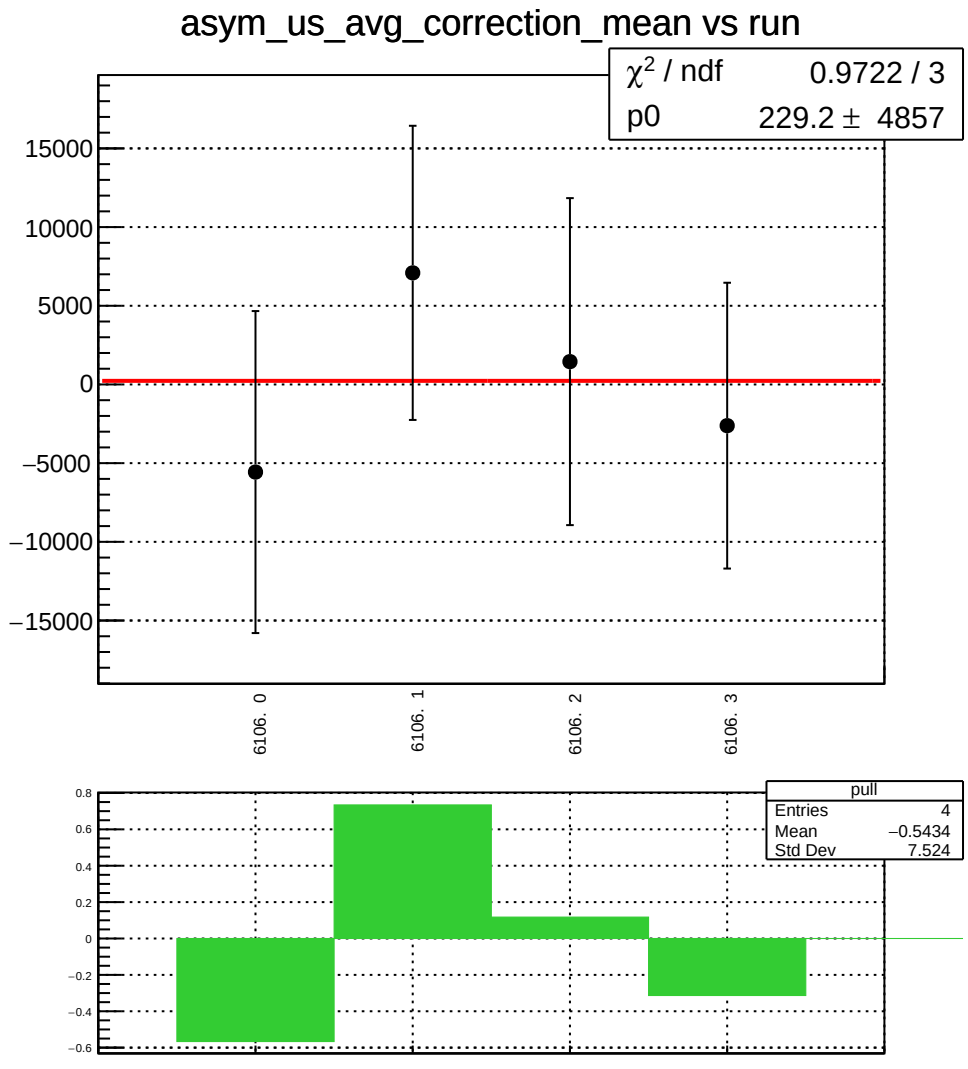
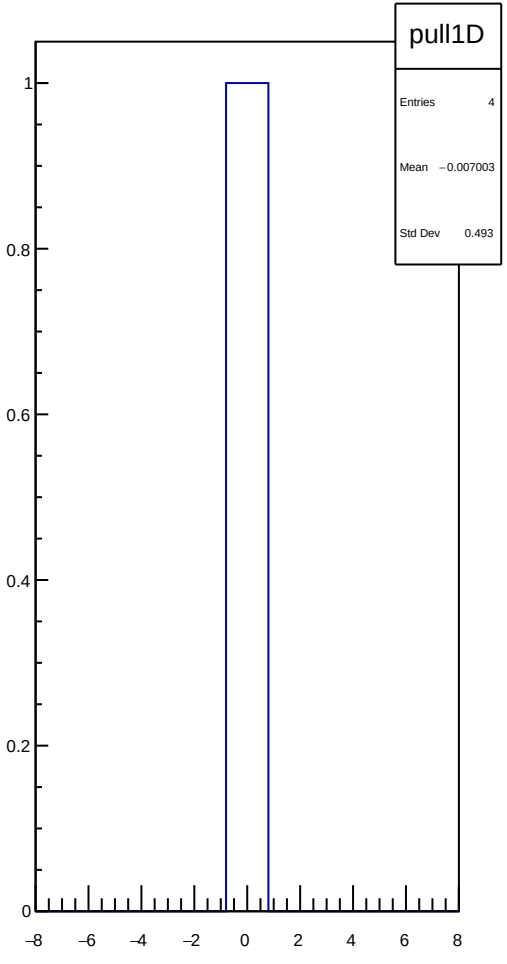

dit_asym_us_avg_mean vs run
×10^3
χ² / ndf 4.879 / 3
p0 −6164 ± 2.375e+04
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3

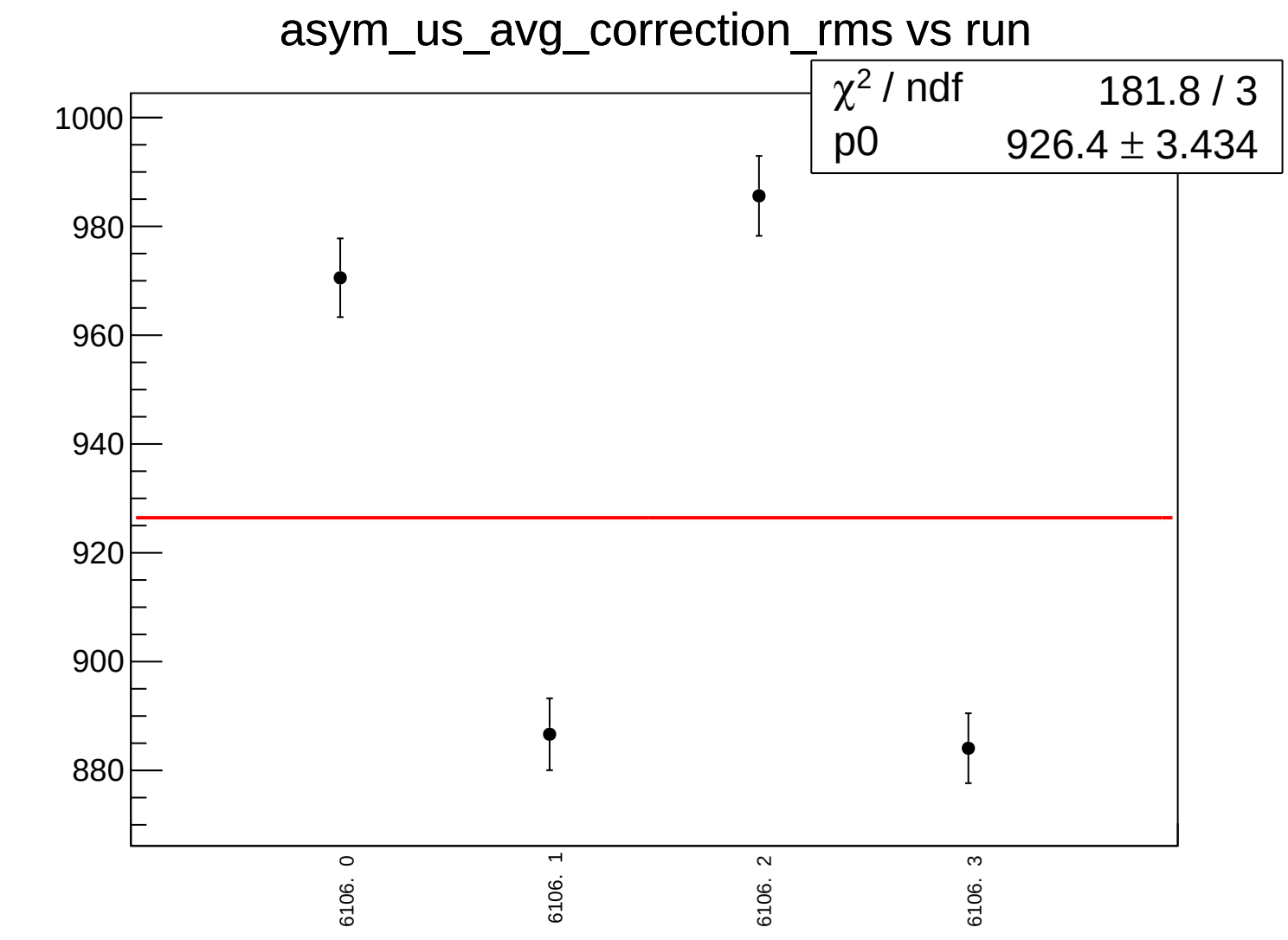

pull
Entries 4
Mean −93.68
Std Dev 95.67
1.5
1
0.5
0
−0.5
−1
−1.5

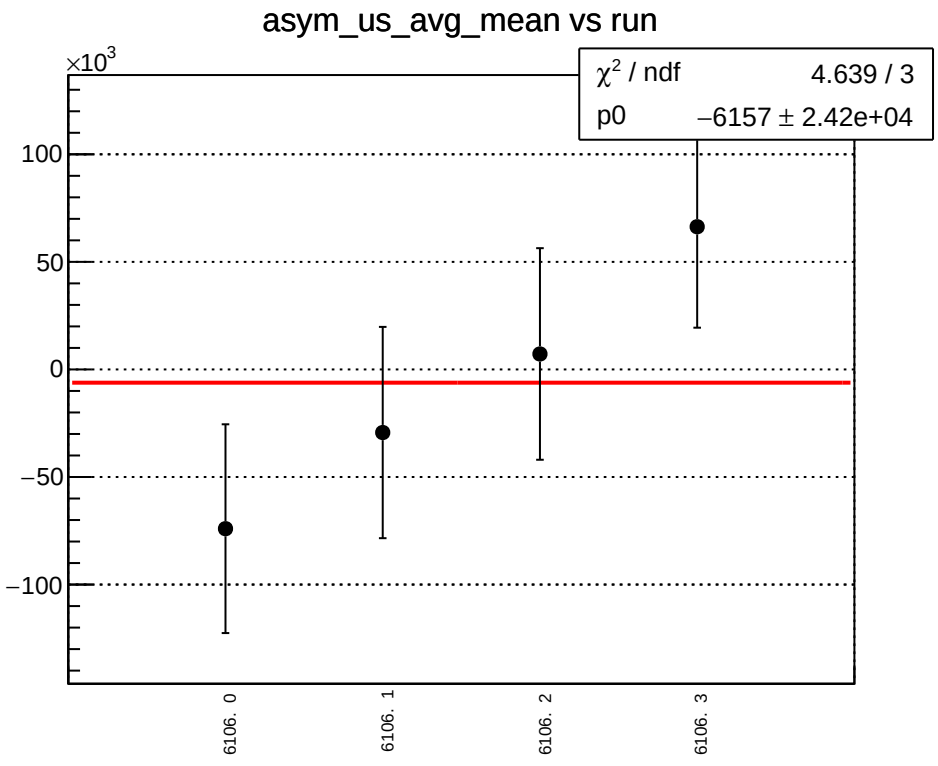

pull1D
Entries 4
Mean −0.01282
Std Dev 1.104
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

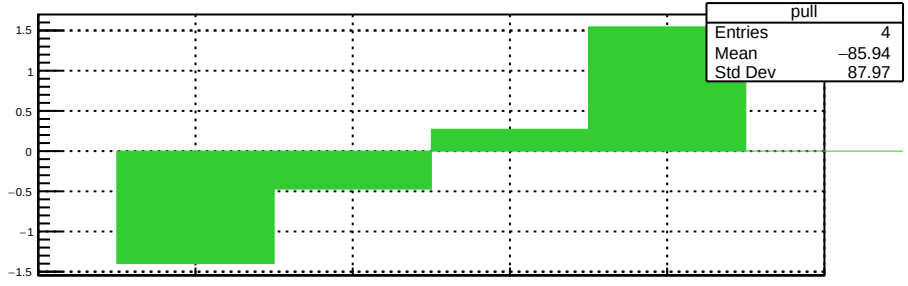

dit_asym_us_avg_rms vs run
χ² / ndf 4.535 / 3
p0 4536 ± 16.8
4620
4600
4580
4560
4540
4520
4500
4480
4460
6106. 0
6106. 1
6106. 2
6106. 3

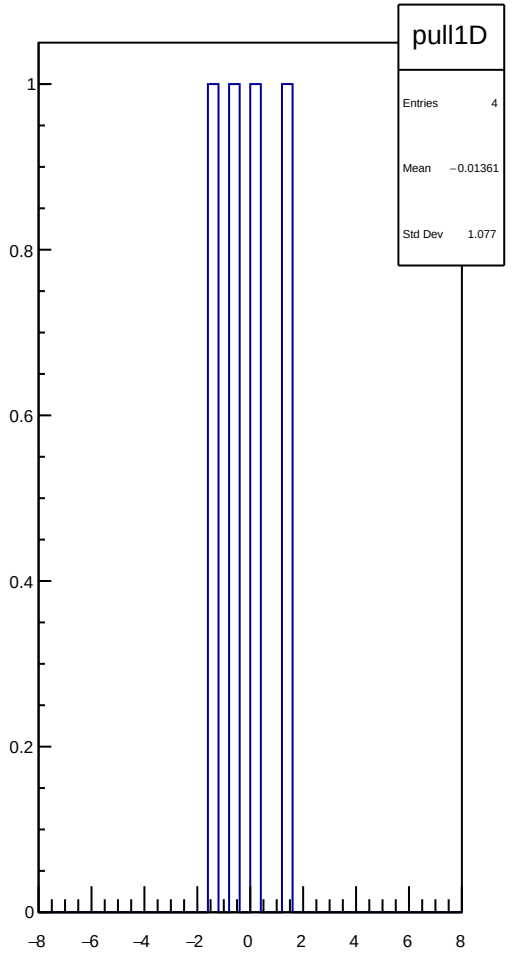

asym_us_avg_correction_mean vs run
χ² / ndf 0.9722 / 3
p0 229.2 ± 4857
15000
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −0.5434
Std Dev 7.524
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

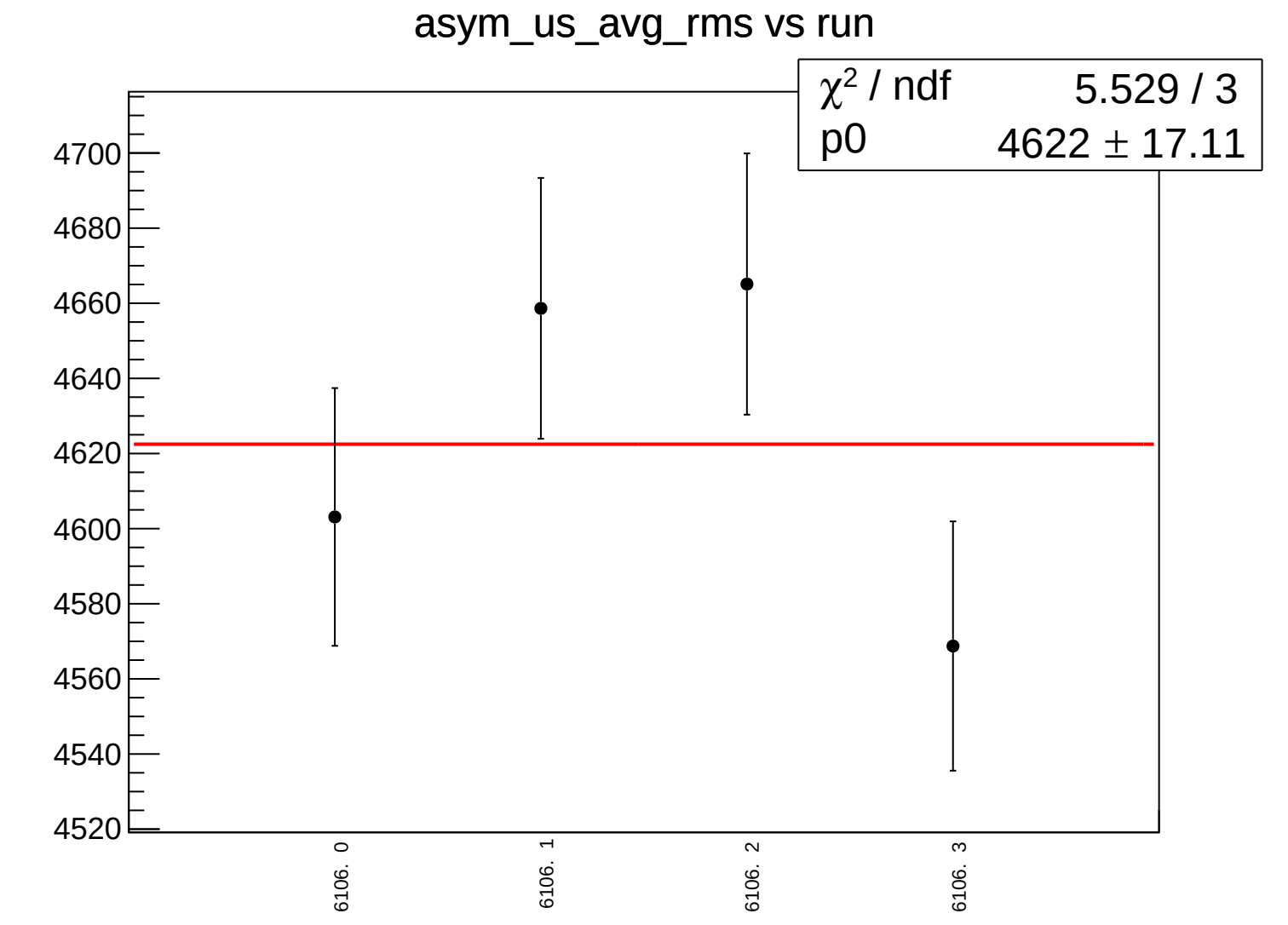

pull1D
Entries 4
Mean −0.007003
Std Dev 0.493
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

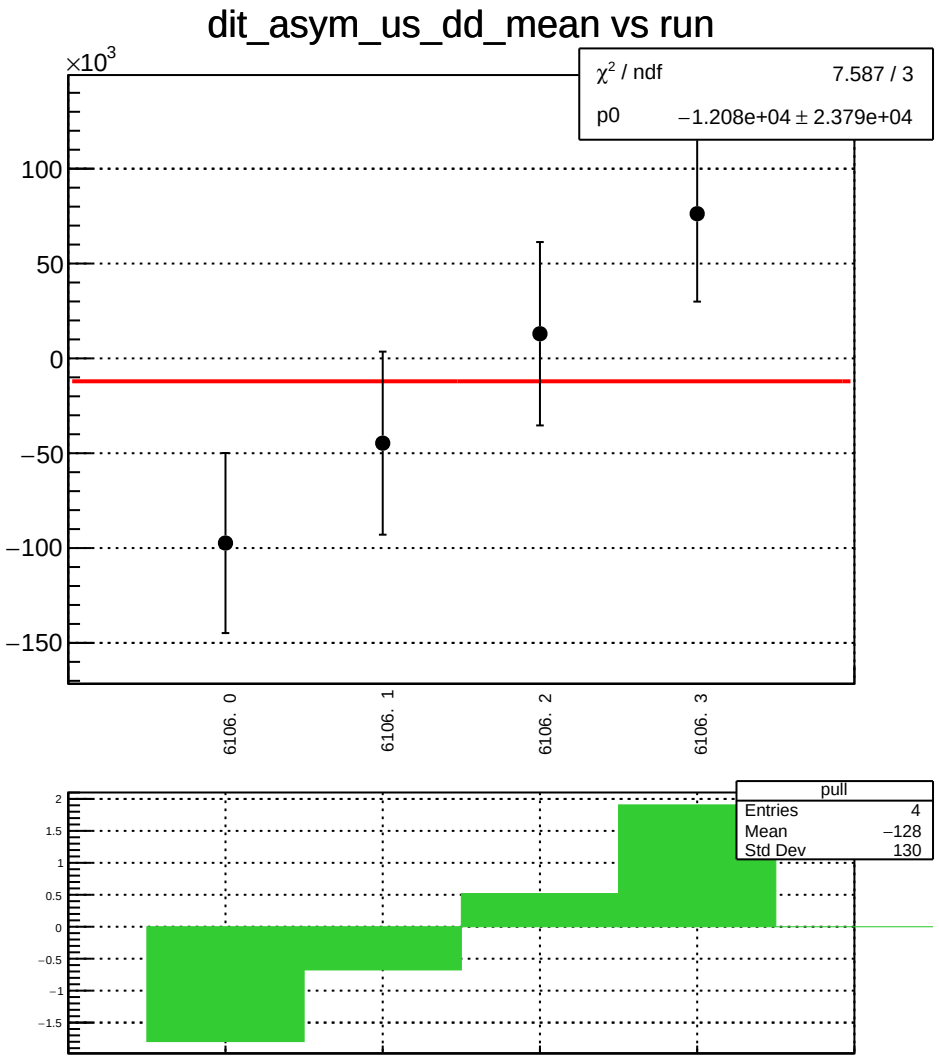

asym_us_avg_correction_rms vs run
χ² / ndf 181.8 / 3
p0 926.4 ± 3.434
1000
980
960
940
920
900
880
6106. 0
6106. 1
6106. 2
6106. 3

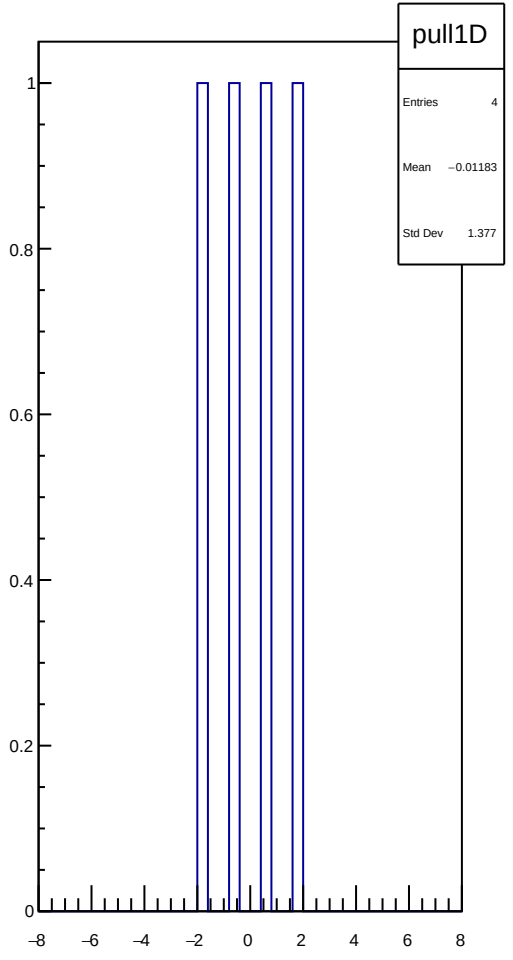

asym_us_avg_mean vs run
×10^3
χ² / ndf 4.639 / 3
p0 −6157 ± 2.42e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3

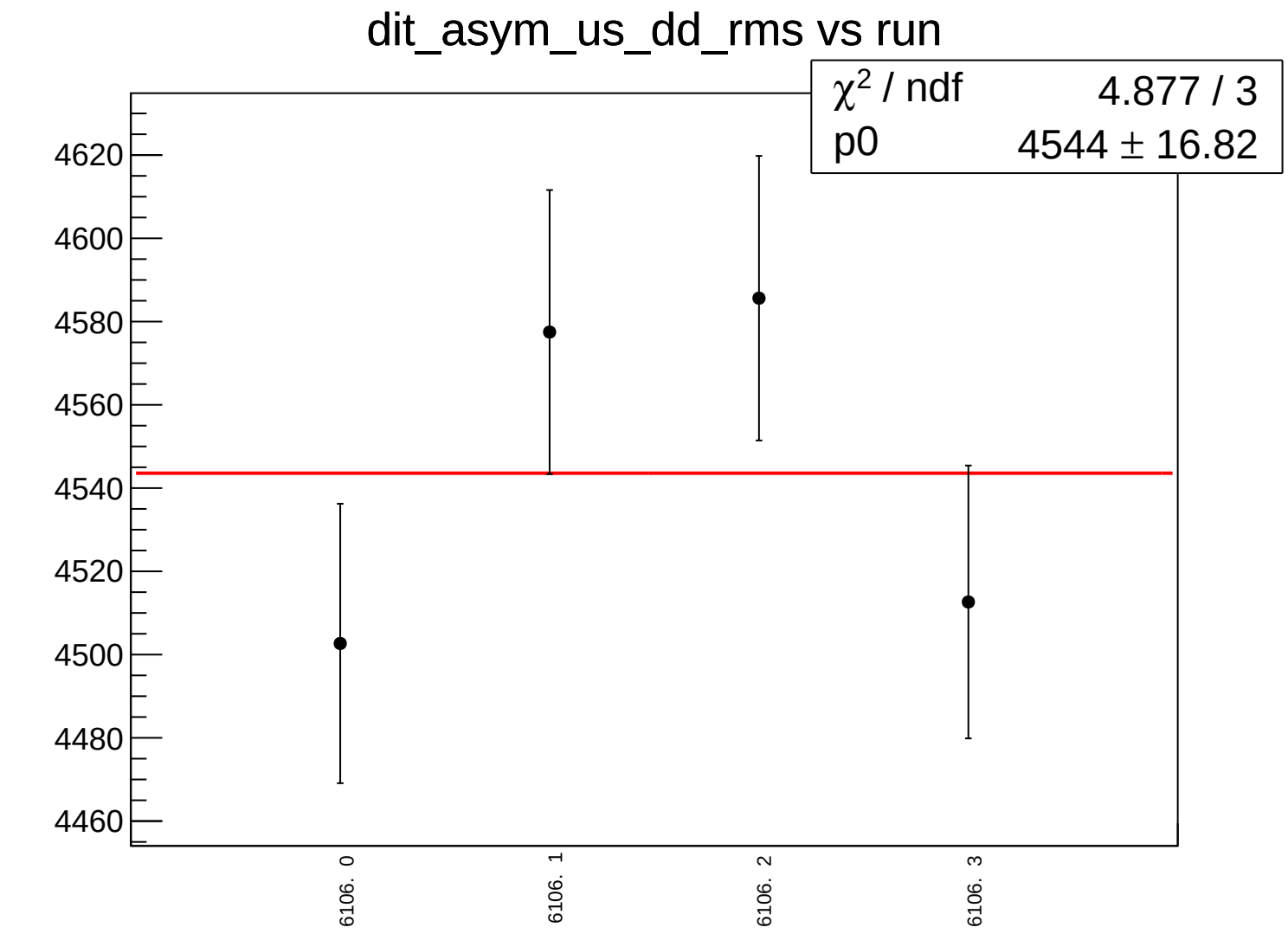

pull
Entries 4
Mean −85.94
Std Dev 87.97
1.5
1
0.5
0
−0.5
−1
−1.5

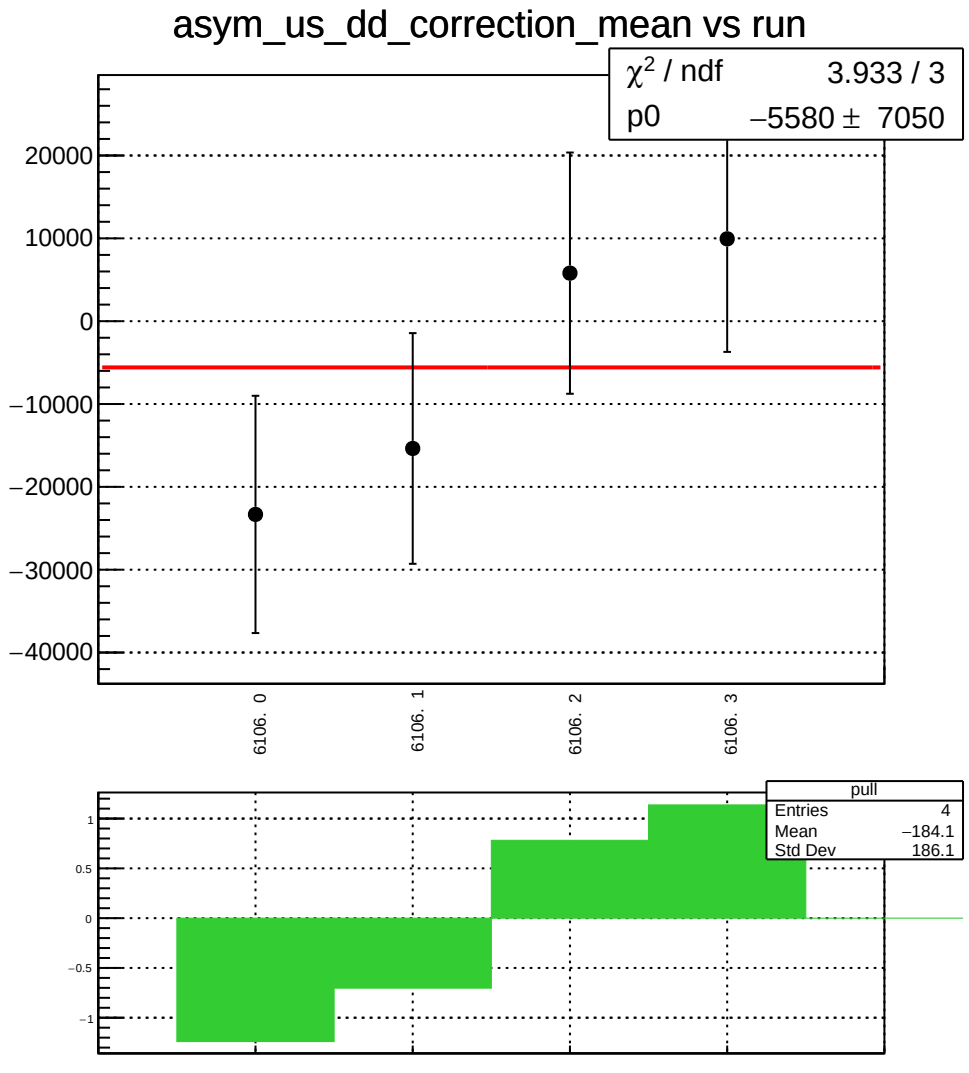

pull1D
Entries 4
Mean −0.01361
Std Dev 1.077
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

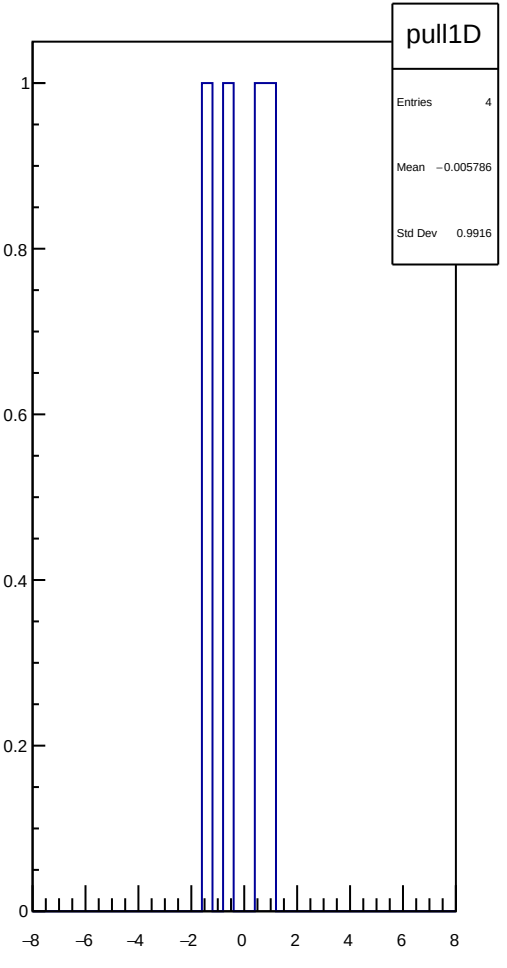

asym_us_avg_rms vs run
χ² / ndf 5.529 / 3
p0 4622 ± 17.11
4700
4680
4660
4640
4620
4600
4580
4560
4540
4520
6106. 0
6106. 1
6106. 2
6106. 3

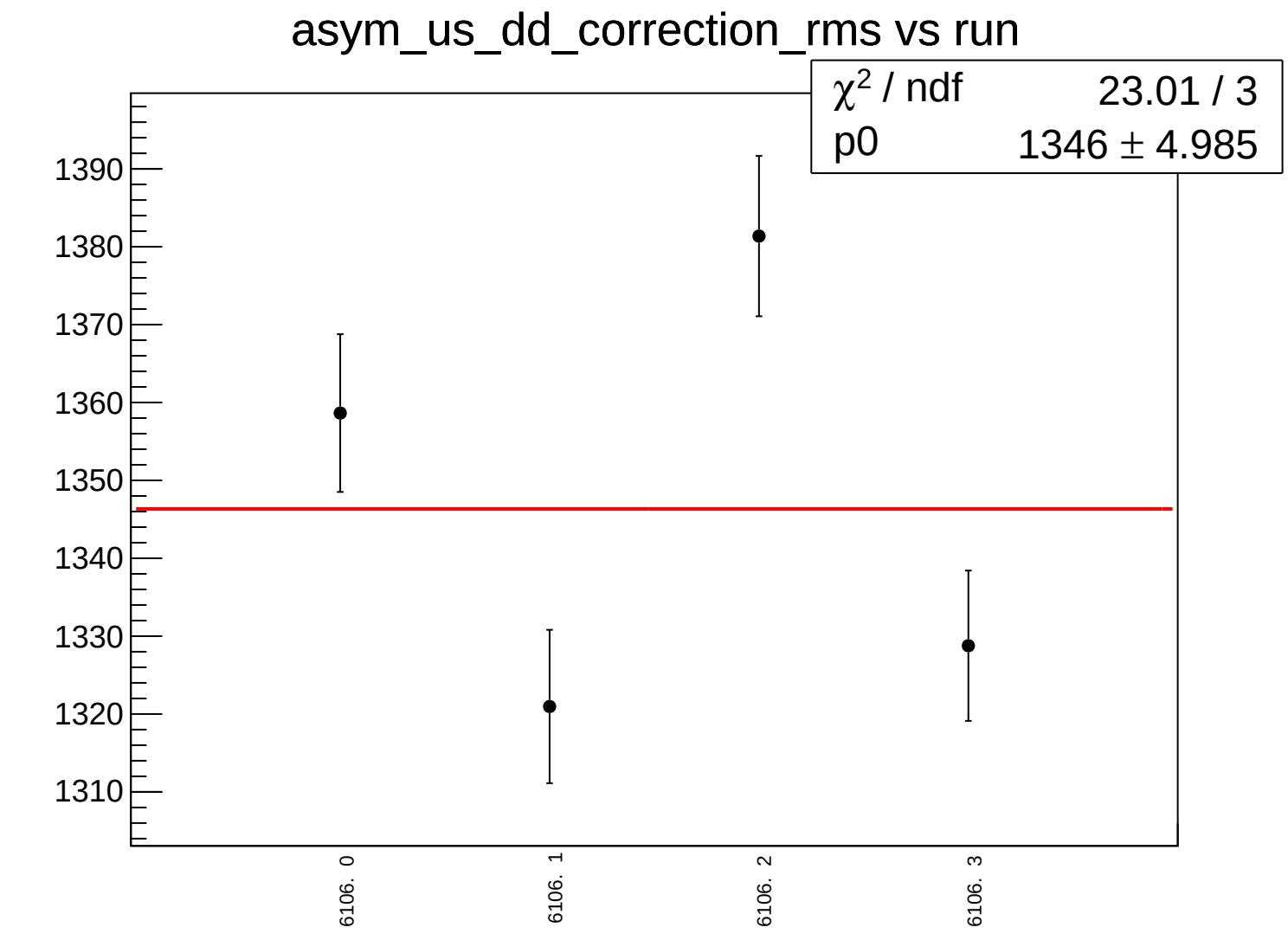

dit_asym_us_dd_mean vs run
×10^3
χ² / ndf 7.587 / 3
p0 −1.208e+04 ± 2.379e+04
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −128
Std Dev 130
2
1.5
1
0.5
0
−0.5
−1
−1.5

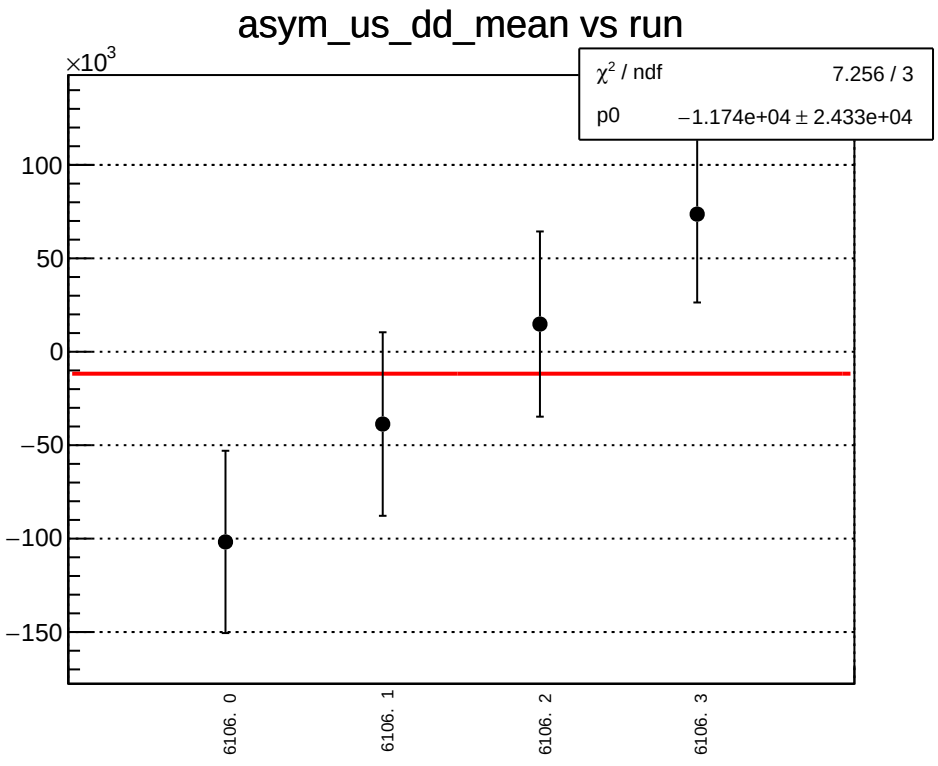

pull1D
Entries 4
Mean −0.01183
Std Dev 1.377
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

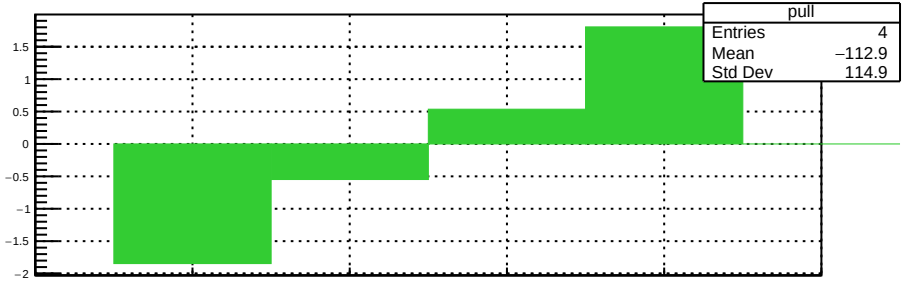

dit_asym_us_dd_rms vs run
χ² / ndf 4.877 / 3
p0 4544 ± 16.82
4620
4600
4580
4560
4540
4520
4500
4480
4460
6106. 0
6106. 1
6106. 2
6106. 3

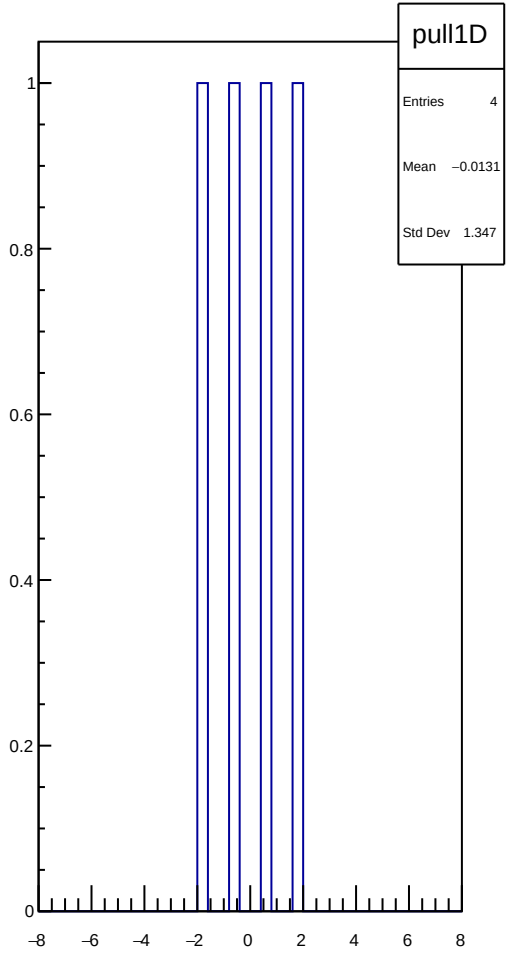

asym_us_dd_correction_mean vs run
χ² / ndf 3.933 / 3
p0 −5580 ± 7050
20000
10000
0
−10000
−20000
−30000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −184.1
Std Dev 186.1
1
0.5
0
−0.5
−1

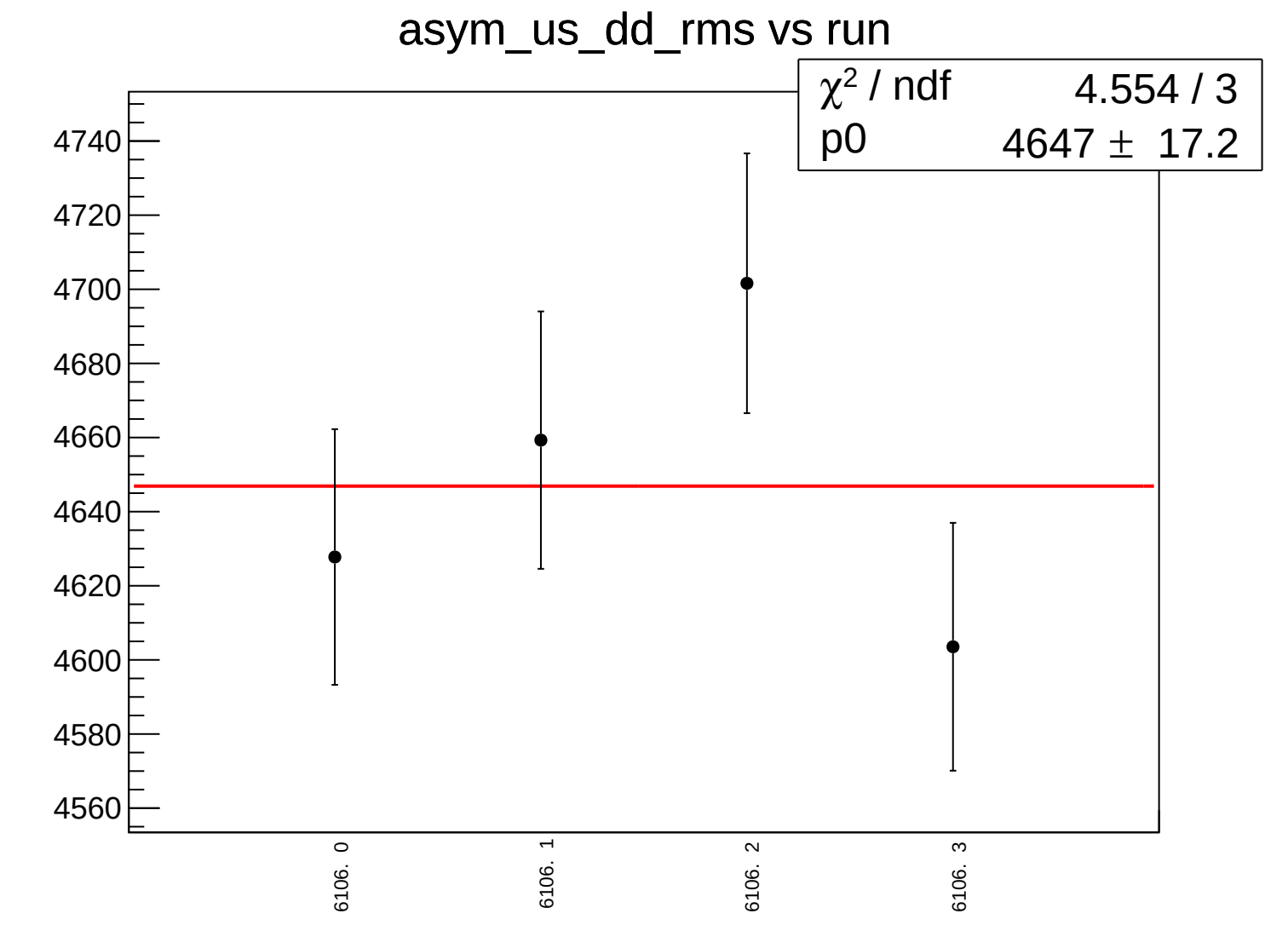

pull1D
Entries 4
Mean −0.005786
Std Dev 0.9916
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

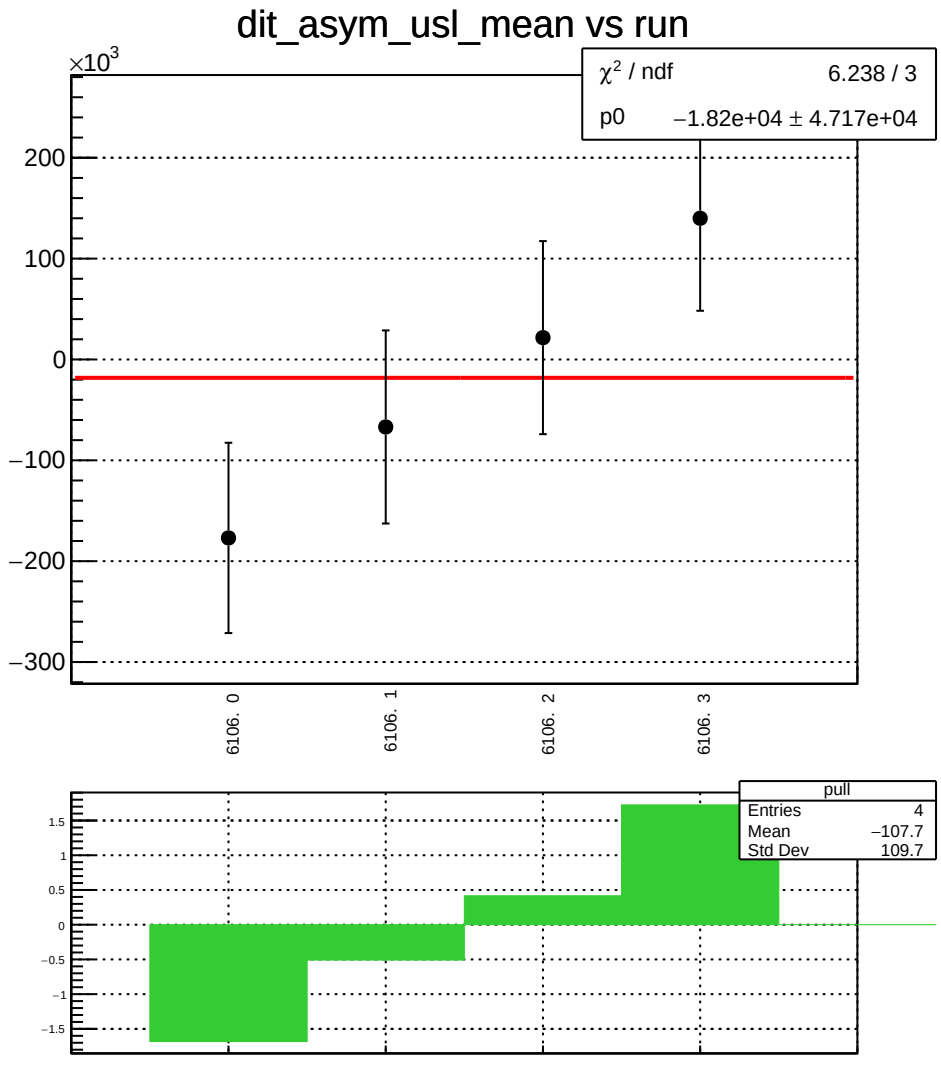

asym_us_dd_correction_rms vs run
χ² / ndf 23.01 / 3
p0 1346 ± 4.985
1390
1380
1370
1360
1350
1340
1330
1320
1310
6106. 0
6106. 1
6106. 2
6106. 3

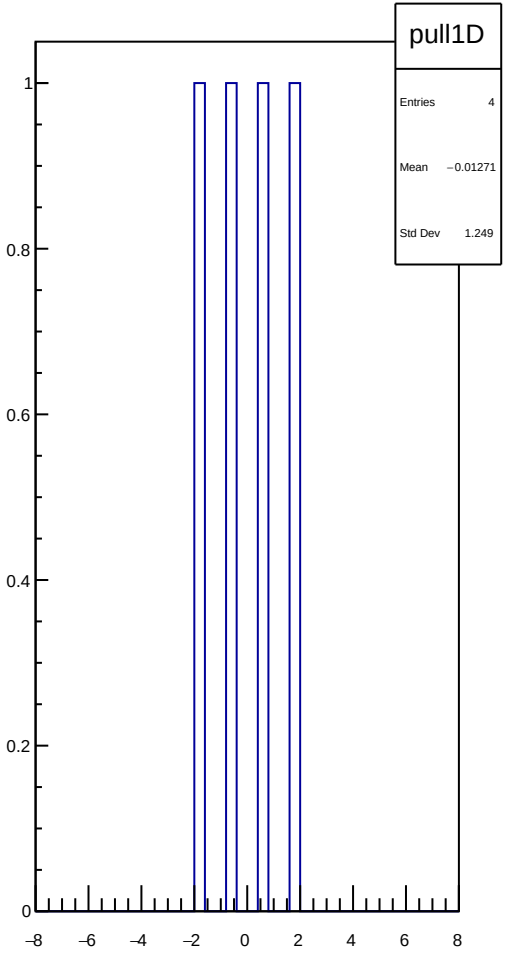

asym_us_dd_mean vs run
×10^3
χ² / ndf 7.256 / 3
p0 −1.174e+04 ± 2.433e+04
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3

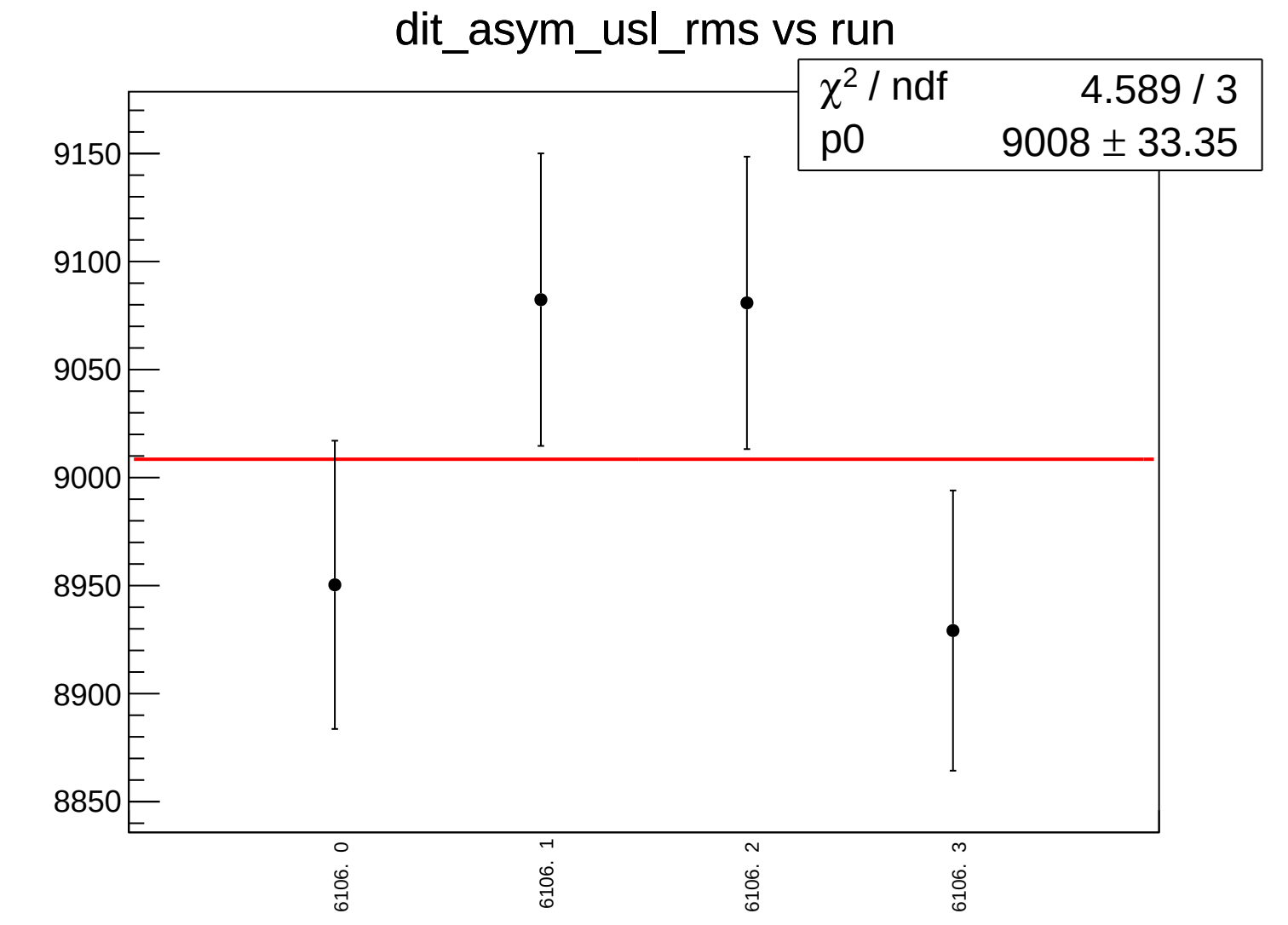

pull
Entries 4
Mean −112.9
Std Dev 114.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

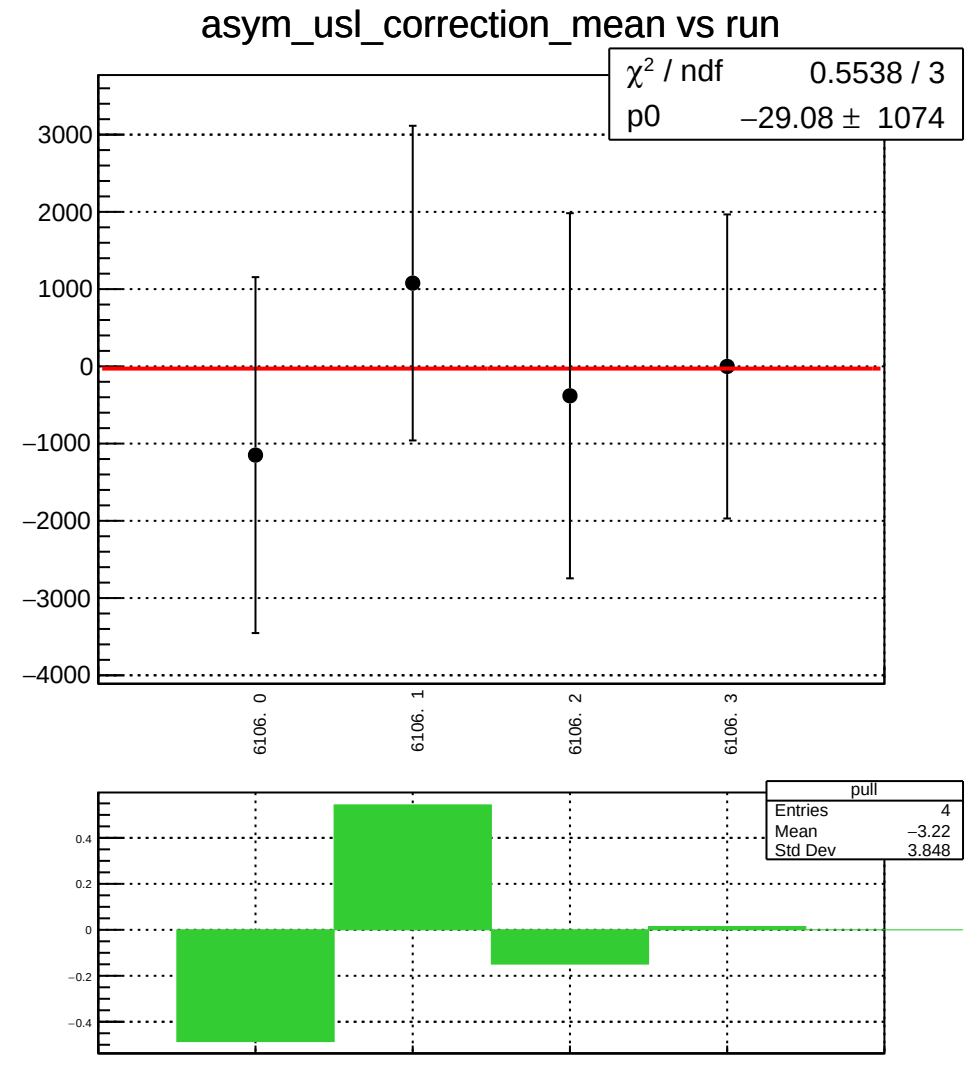

pull1D
Entries 4
Mean −0.0131
Std Dev 1.347
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

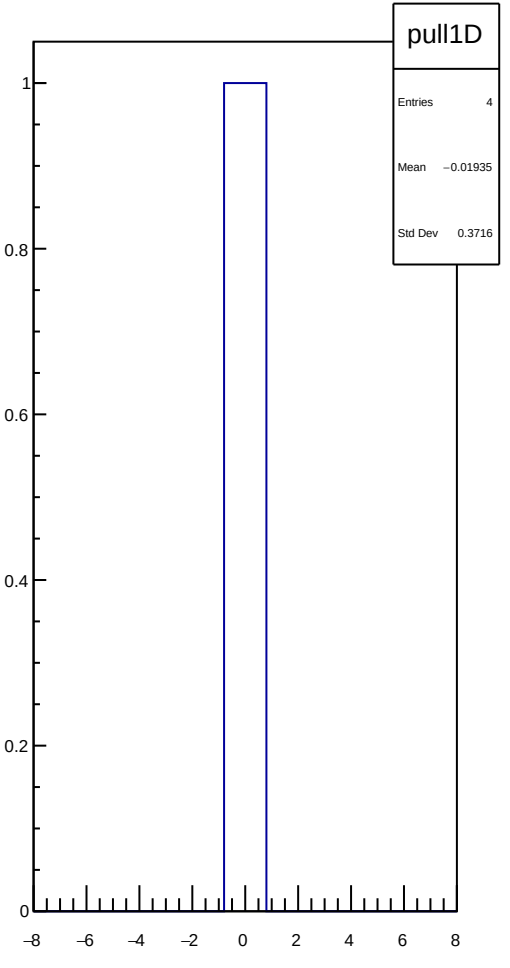

asym_us_dd_rms vs run
χ² / ndf 4.554 / 3
p0 4647 ± 17.2
4740
4720
4700
4680
4660
4640
4620
4600
4580
4560
6106. 0
6106. 1
6106. 2
6106. 3

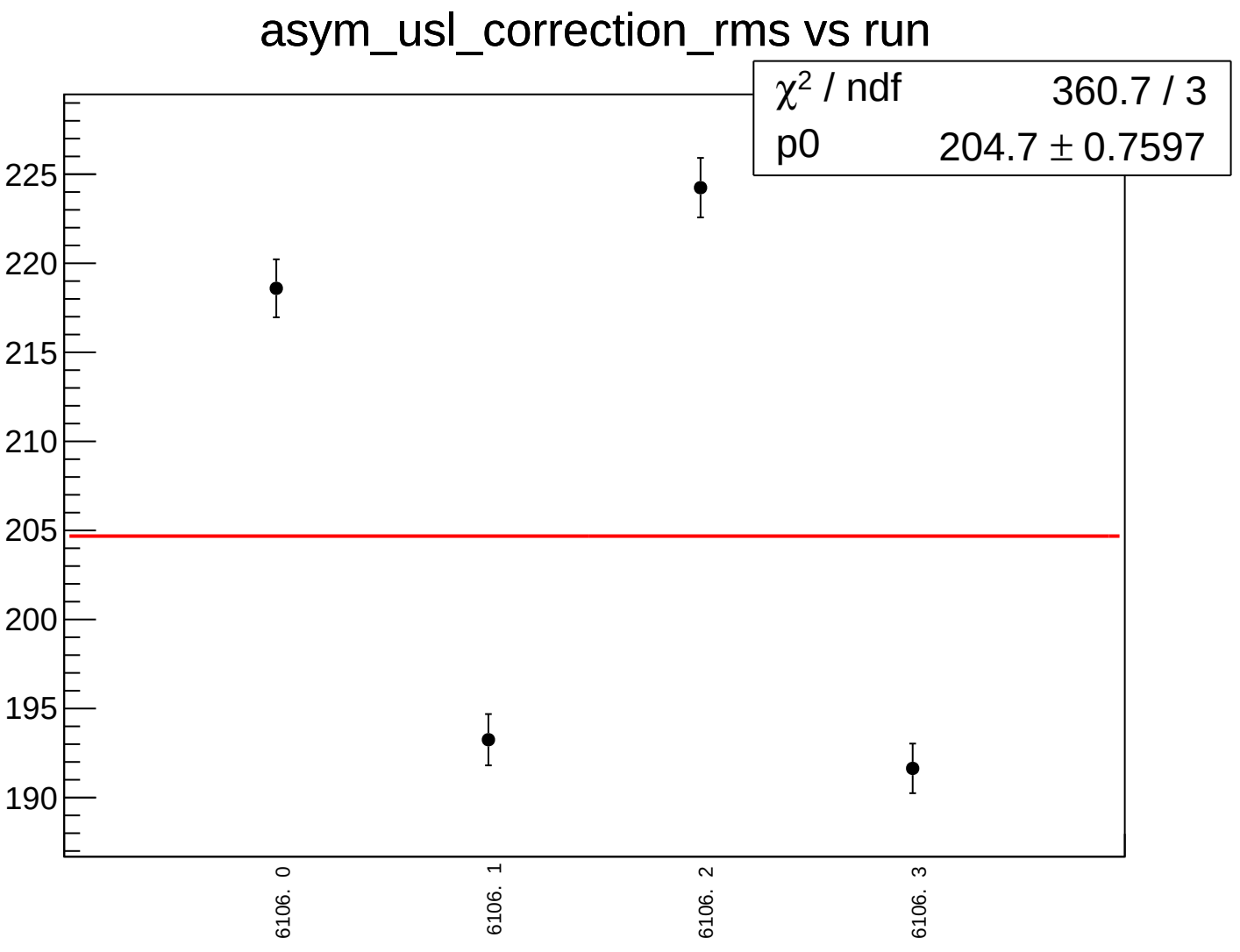

dit_asym_usl_mean vs run
×10^3
χ² / ndf 6.238 / 3
p0 −1.82e+04 ± 4.717e+04
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −107.7
Std Dev 109.7
1.5
1
0.5
0
−0.5
−1
−1.5

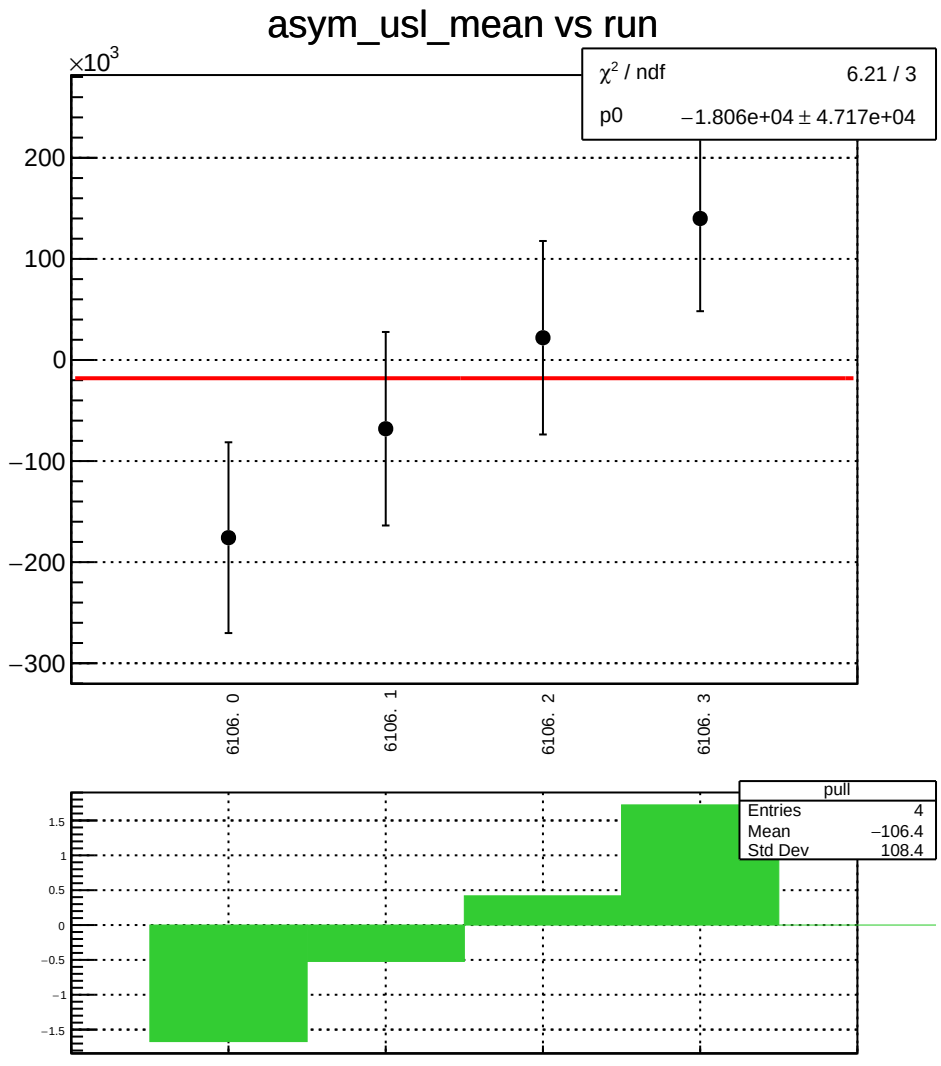

pull1D
Entries 4
Mean −0.01271
Std Dev 1.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

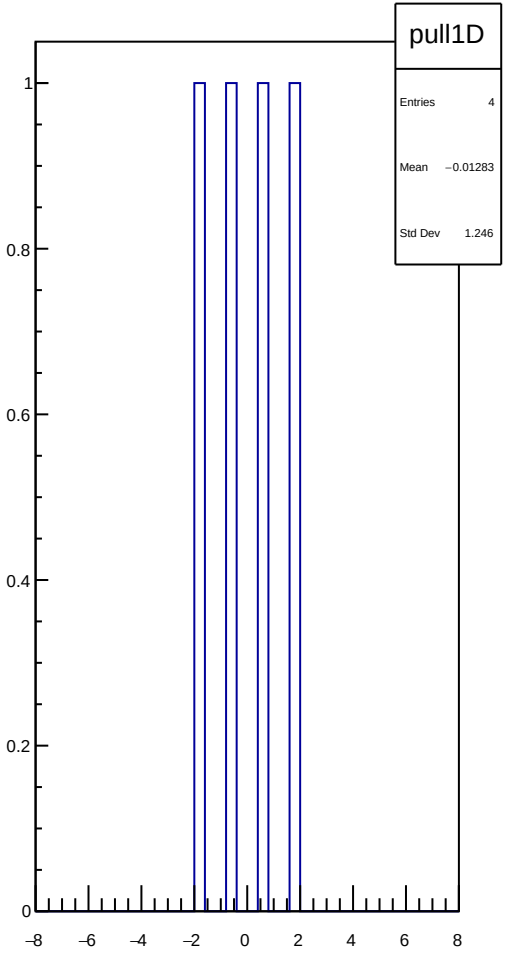

dit_asym_usl_rms vs run
χ² / ndf 4.589 / 3
p0 9008 ± 33.35
9150
9100
9050
9000
8950
8900
8850
6106. 0
6106. 1
6106. 2
6106. 3

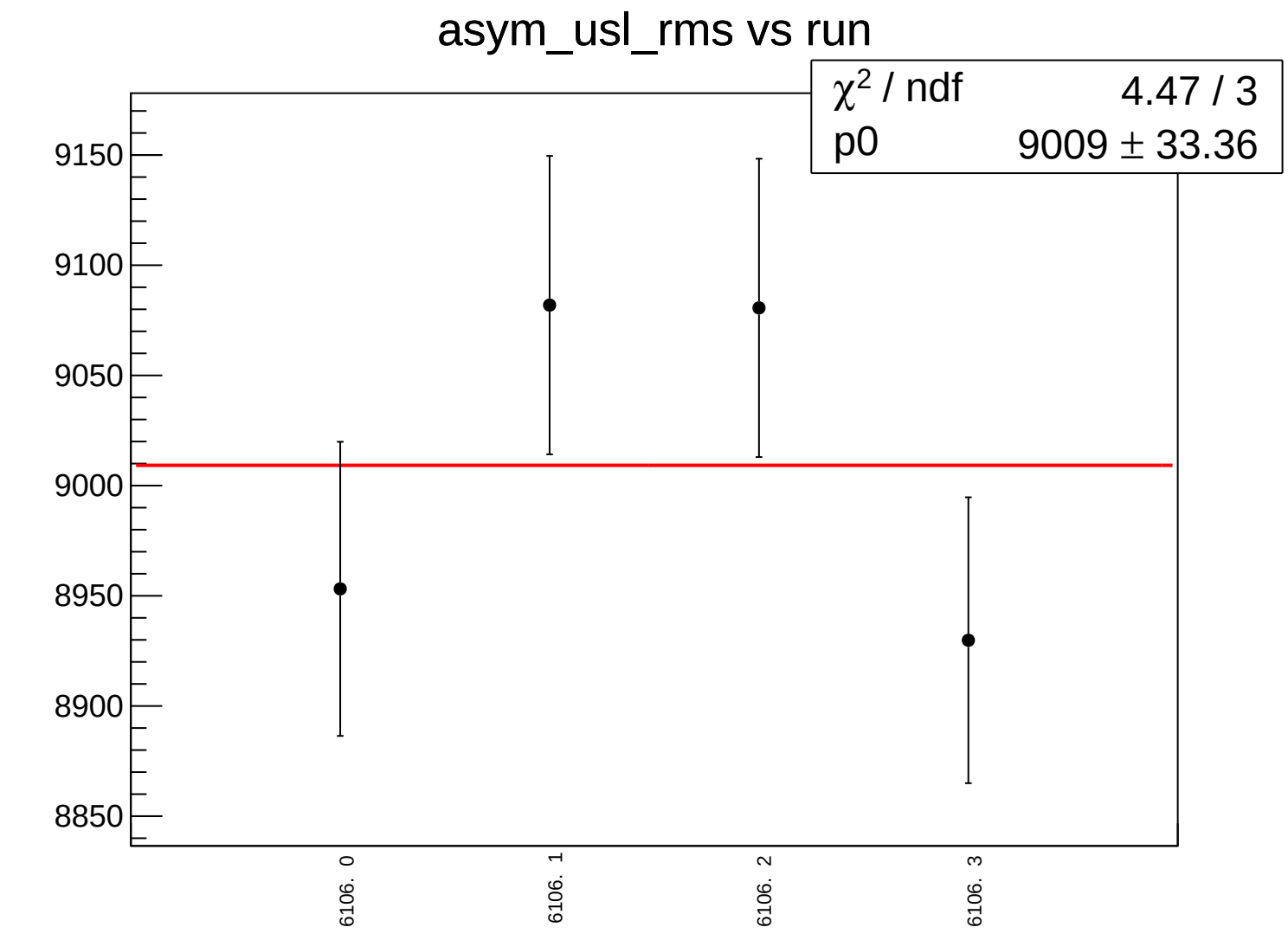

asym_usl_correction_mean vs run
χ² / ndf 0.5538 / 3
p0 −29.08 ± 1074
3000
2000
1000
0
−1000
−2000
−3000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.22
Std Dev 3.848
0.4
0.2
0
−0.2
−0.4

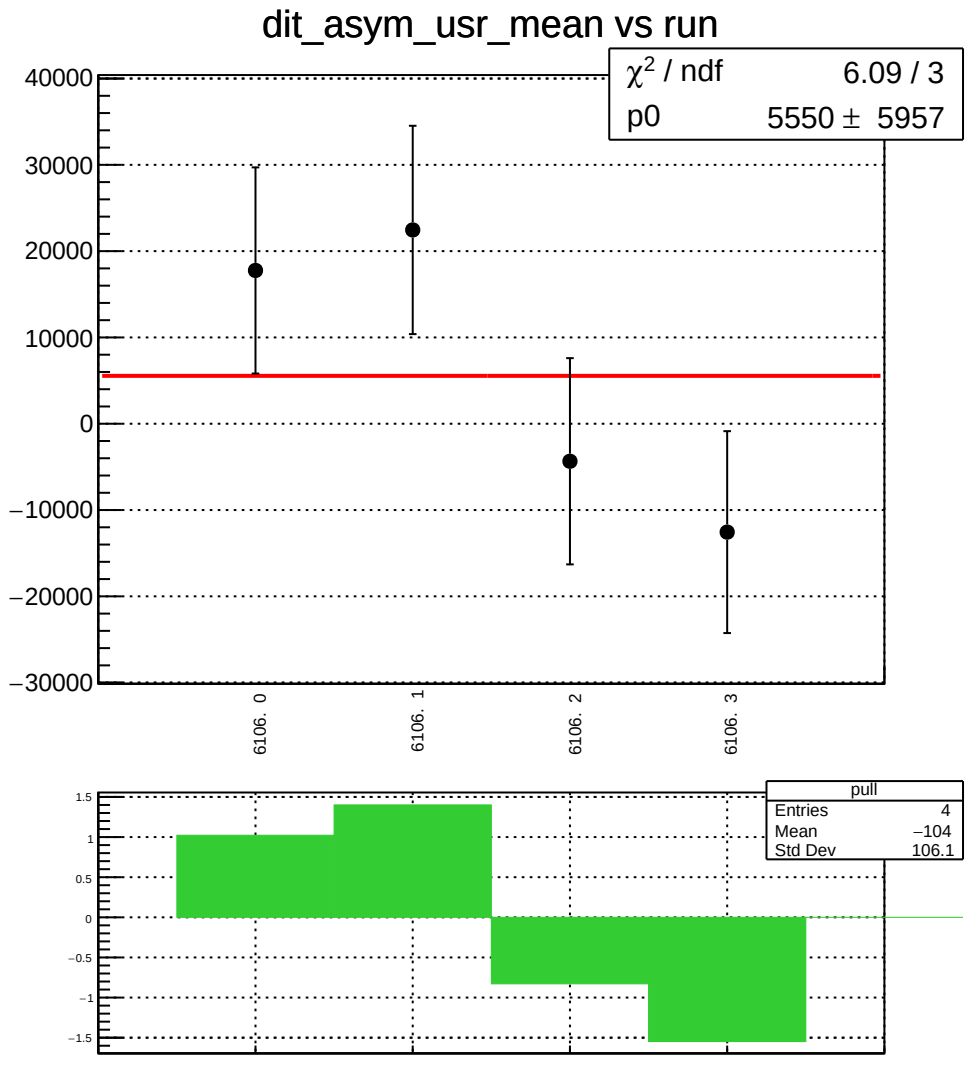

pull1D
Entries 4
Mean −0.01935
Std Dev 0.3716
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

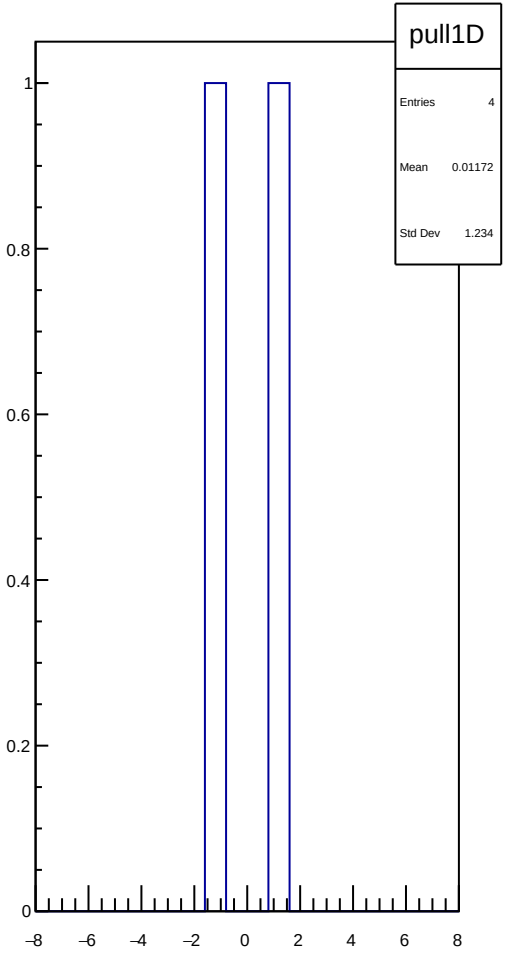

asym_usl_correction_rms vs run
χ² / ndf 360.7 / 3
p0 204.7 ± 0.7597
225
220
215
210
205
200
195
190
6106. 0
6106. 1
6106. 2
6106. 3

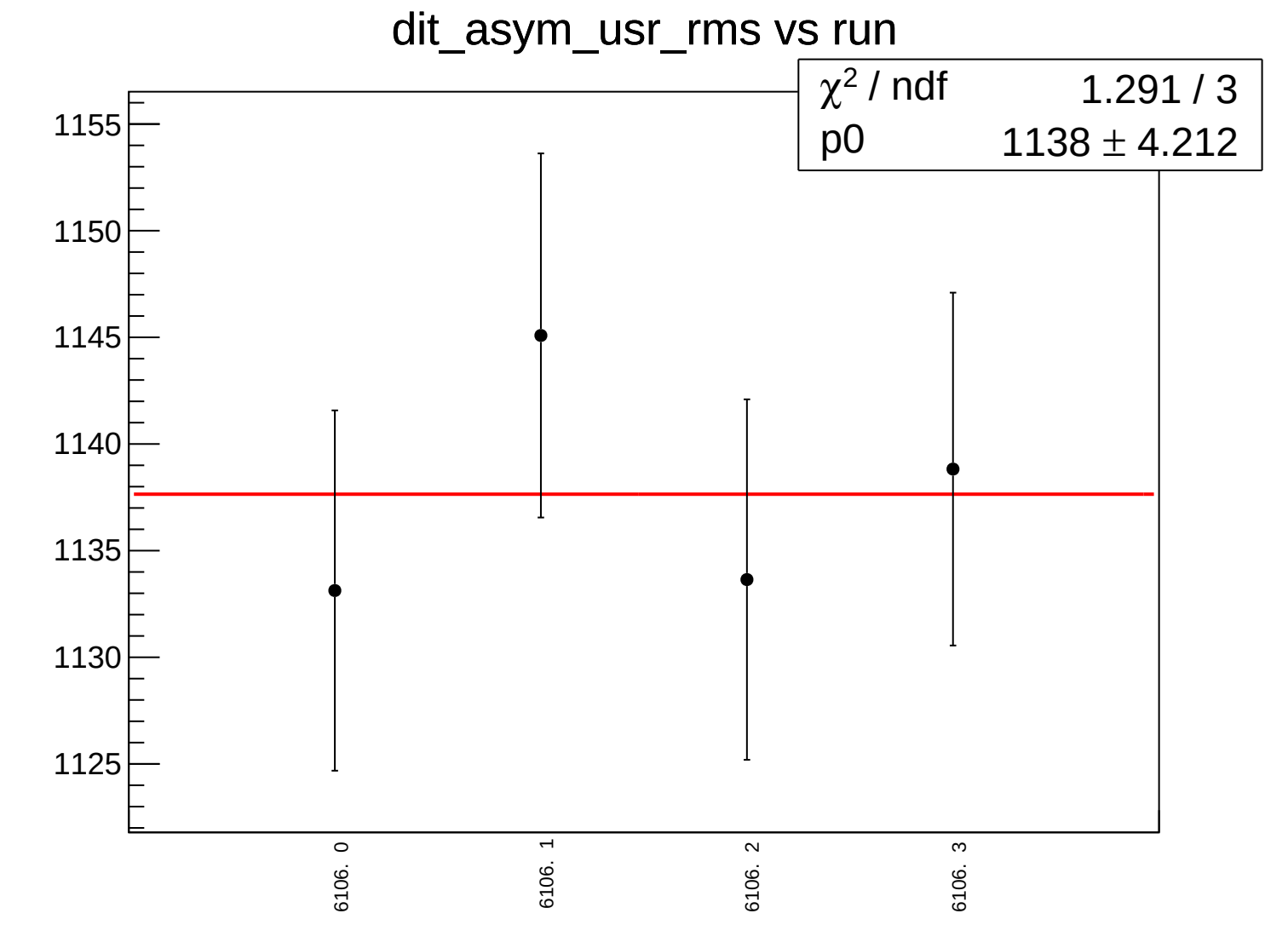

asym_usl_mean vs run
×10^3
χ² / ndf 6.21 / 3
p0 −1.806e+04 ± 4.717e+04
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −106.4
Std Dev 108.4
1.5
1
0.5
0
−0.5
−1
−1.5

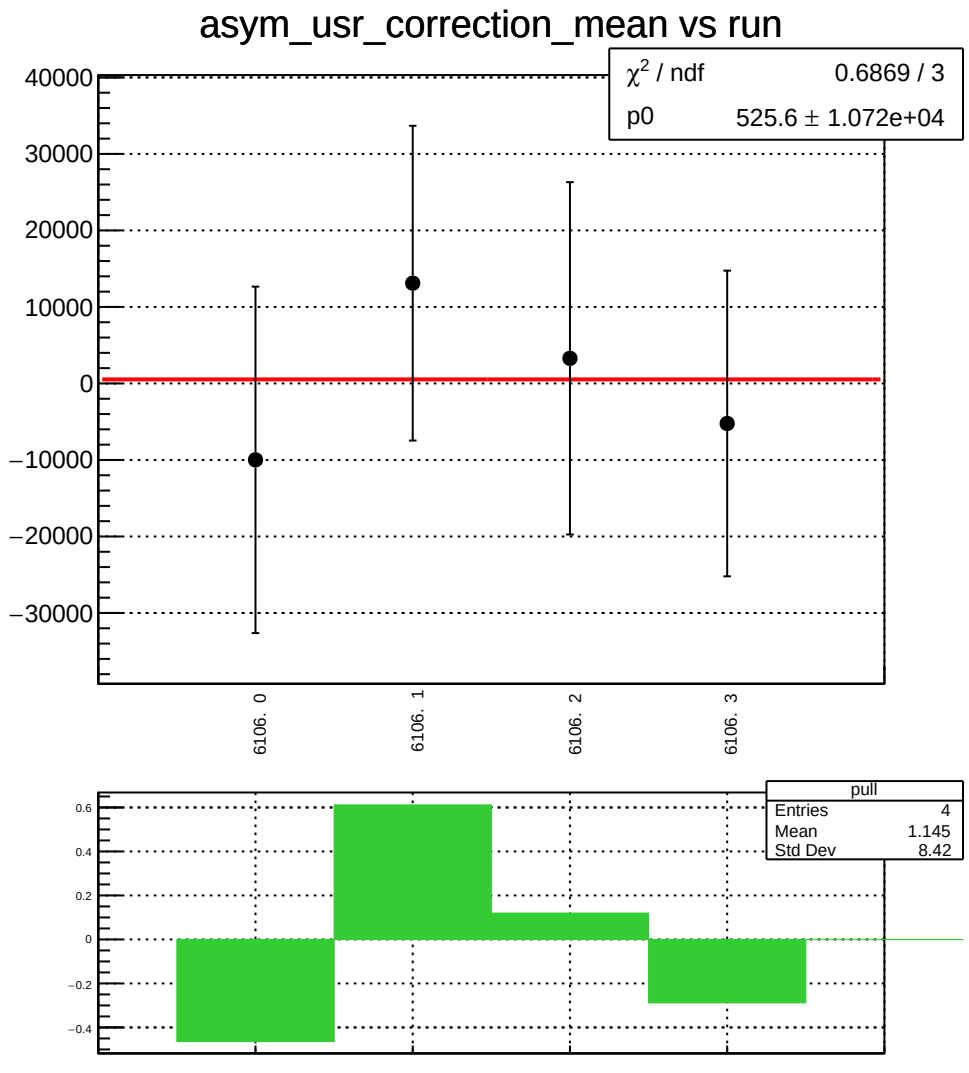

pull1D
Entries 4
Mean −0.01283
Std Dev 1.246
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

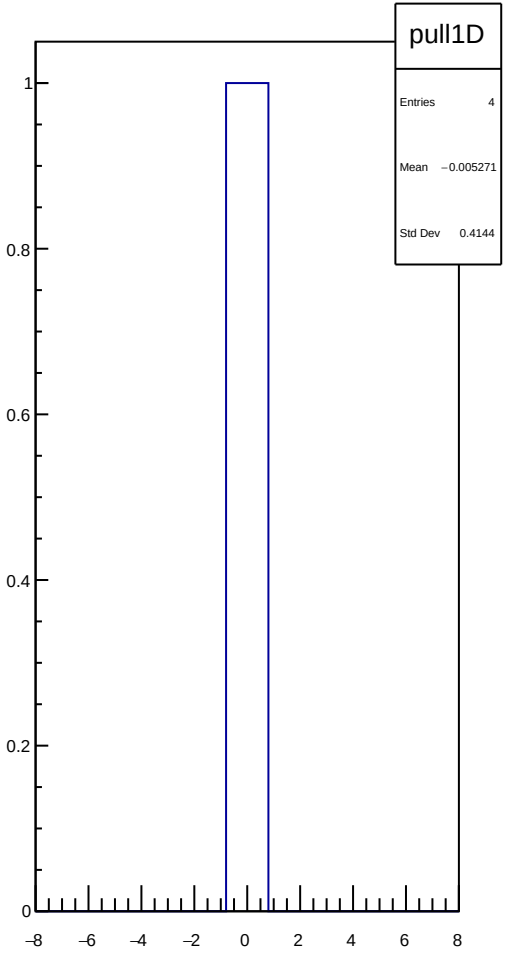

asym_usl_rms vs run
χ² / ndf 4.47 / 3
p0 9009 ± 33.36
9150
9100
9050
9000
8950
8900
8850
6106. 0
6106. 1
6106. 2
6106. 3

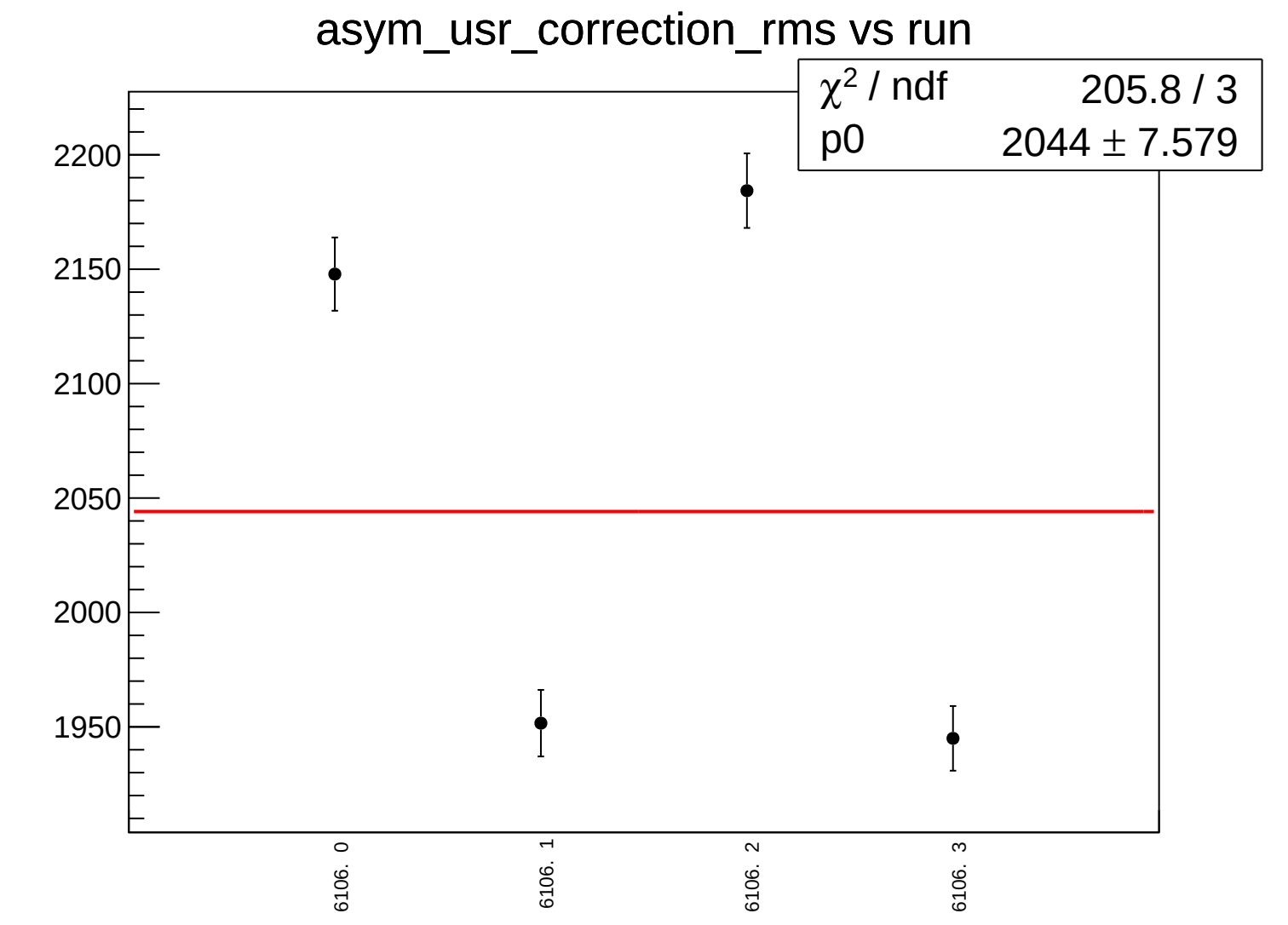

dit_asym_usr_mean vs run
χ² / ndf 6.09 / 3
p0 5550 ± 5957
40000
30000
20000
10000
0
−10000
−20000
−30000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −104
Std Dev 106.1
1.5
1
0.5
0
−0.5
−1
−1.5

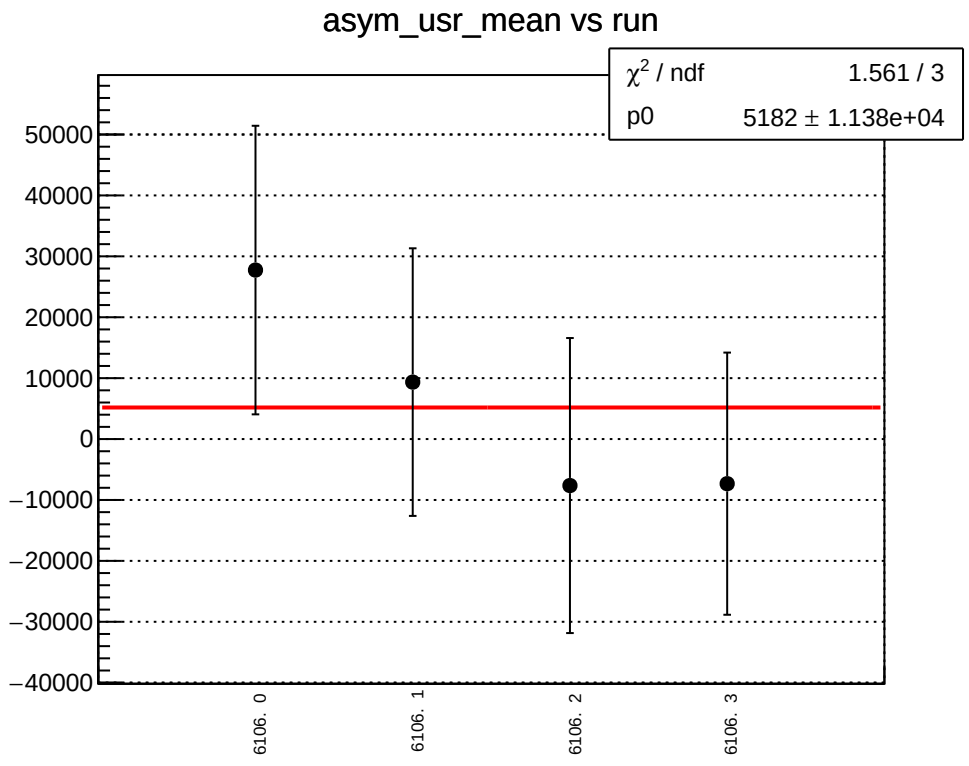

pull1D
Entries 4
Mean 0.01172
Std Dev 1.234
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

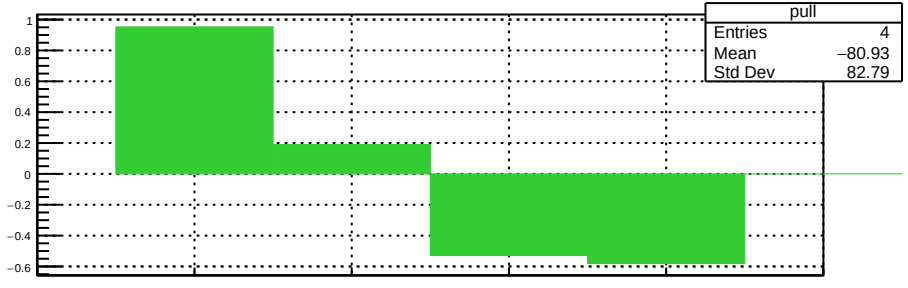

dit_asym_usr_rms vs run
χ² / ndf 1.291 / 3
p0 1138 ± 4.212
1155
1150
1145
1140
1135
1130
1125
6106. 0
6106. 1
6106. 2
6106. 3

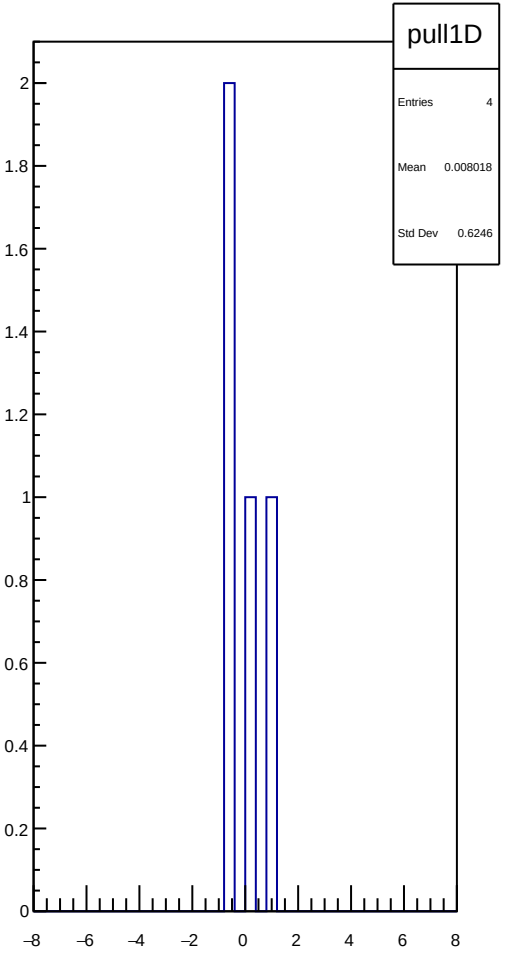

asym_usr_correction_mean vs run
χ² / ndf 0.6869 / 3
p0 525.6 ± 1.072e+04
40000
30000
20000
10000
0
−10000
−20000
−30000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 1.145
Std Dev 8.42
0.6
0.4
0.2
0
−0.2
−0.4

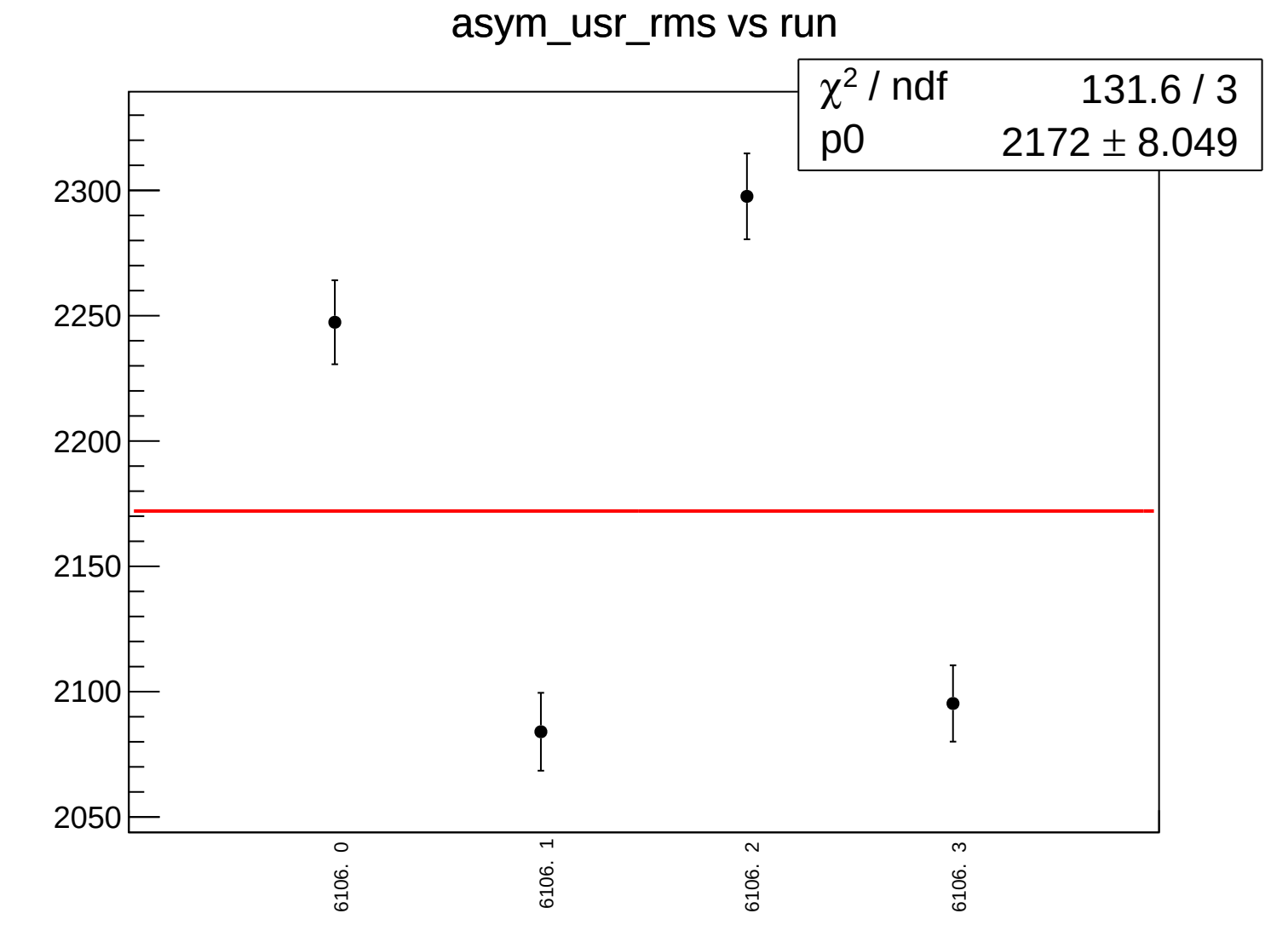

pull1D
Entries 4
Mean −0.005271
Std Dev 0.4144
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

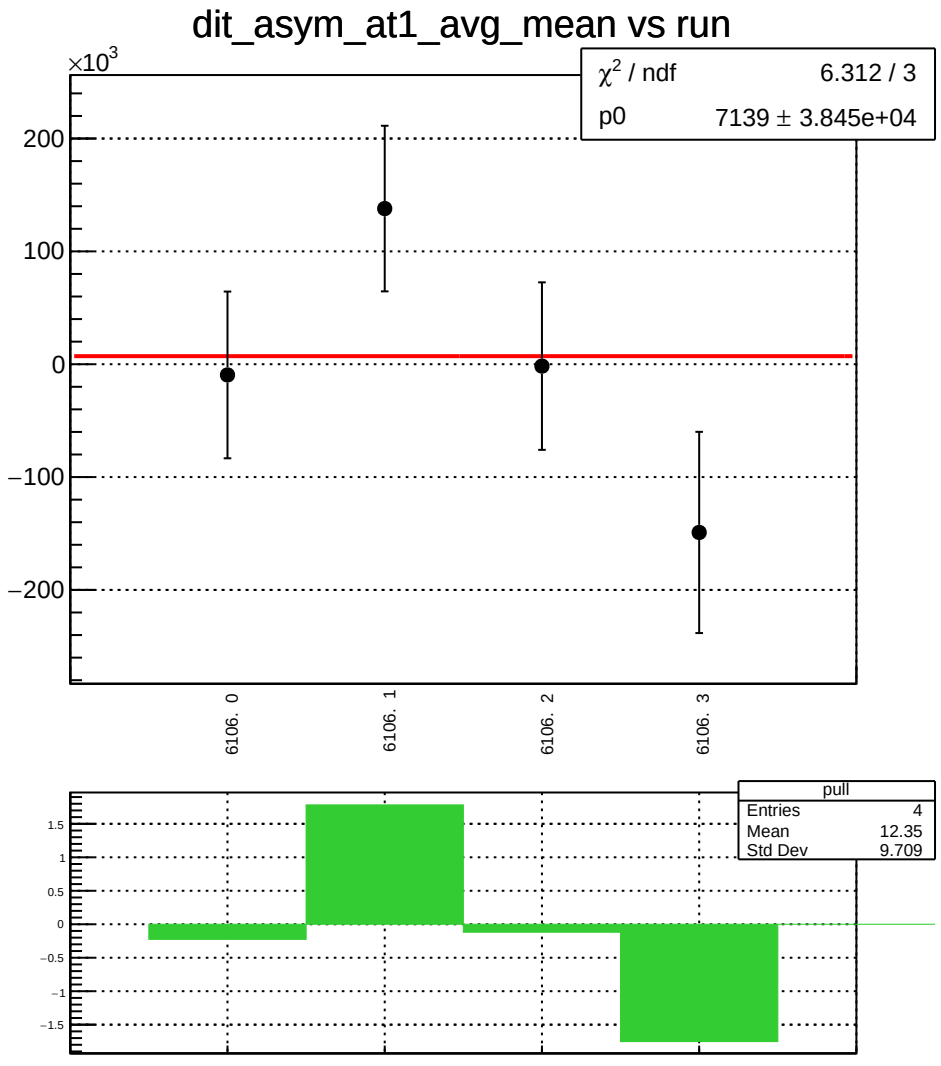

asym_usr_correction_rms vs run
χ² / ndf 205.8 / 3
p0 2044 ± 7.579
2200
2150
2100
2050
2000
1950
6106. 0
6106. 1
6106. 2
6106. 3

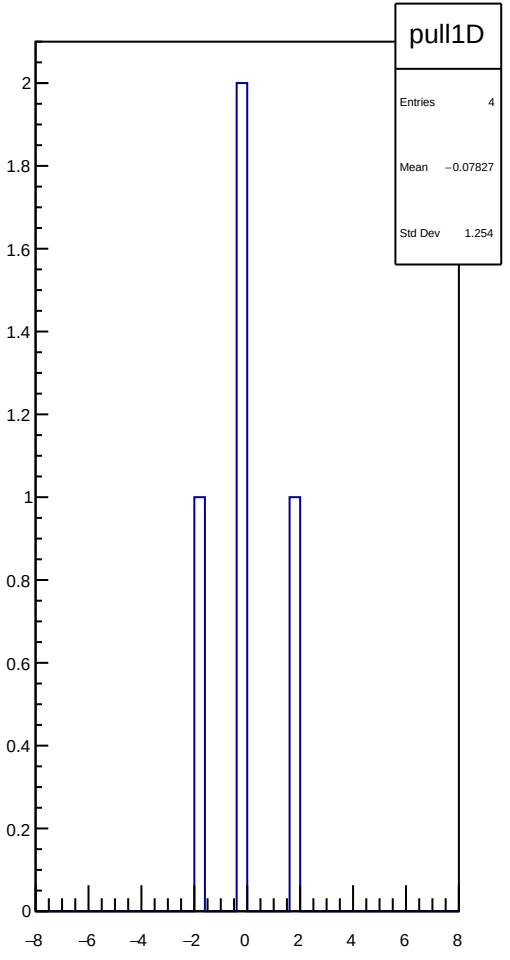

asym_usr_mean vs run
χ² / ndf 1.561 / 3
p0 5182 ± 1.138e+04
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6106. 0
6106. 1
6106. 2
6106. 3

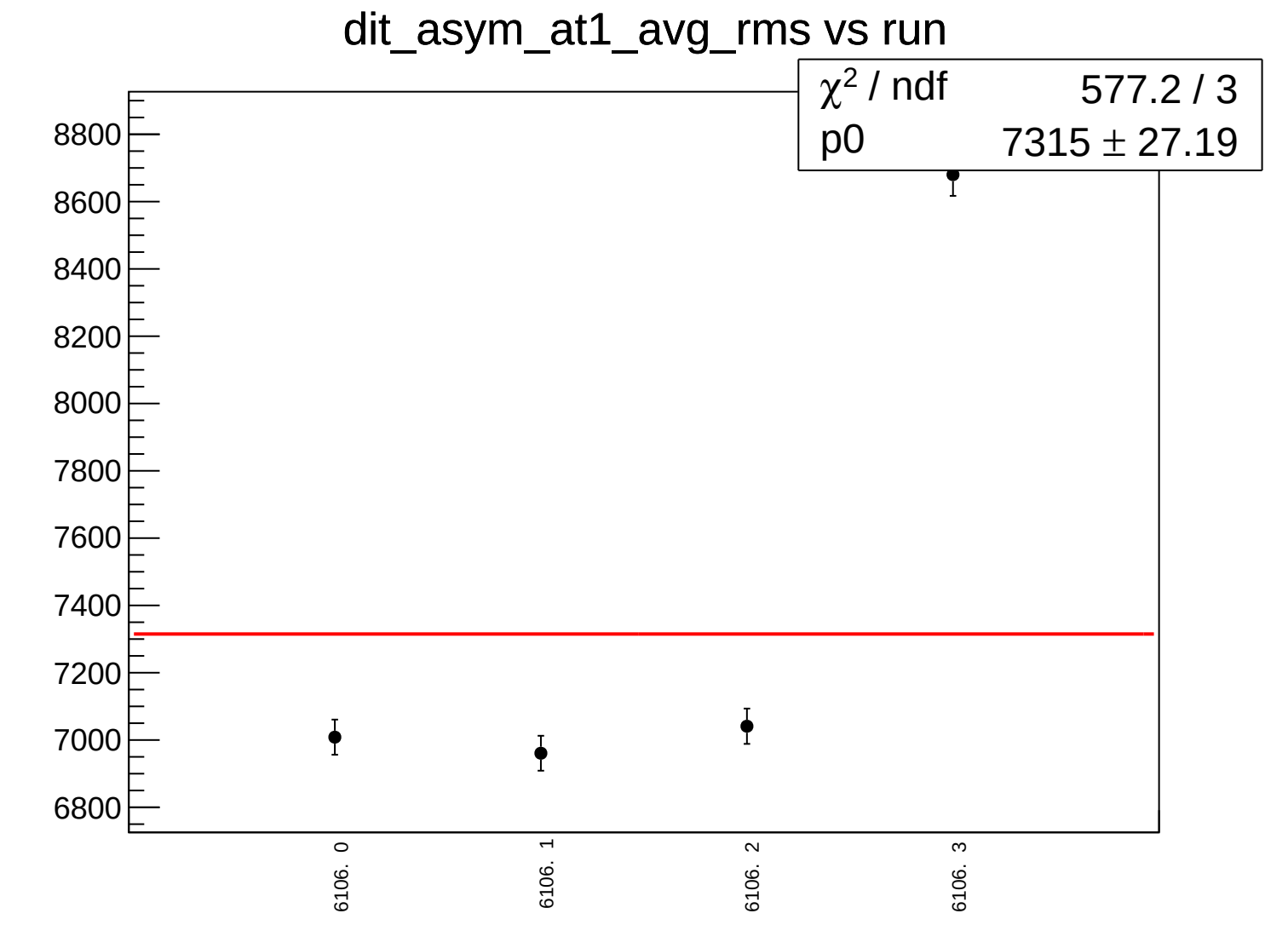

pull
Entries 4
Mean −80.93
Std Dev 82.79
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

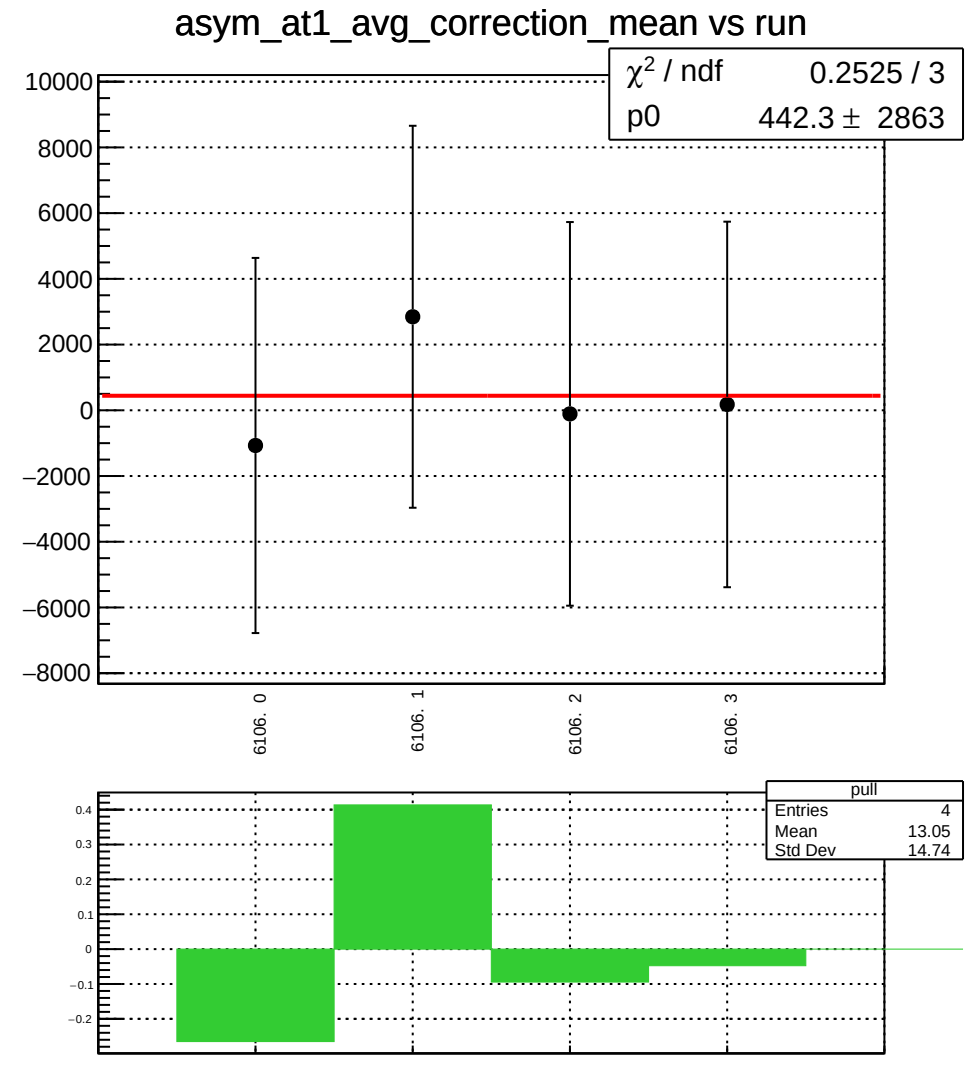

pull1D
Entries 4
Mean 0.008018
Std Dev 0.6246
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

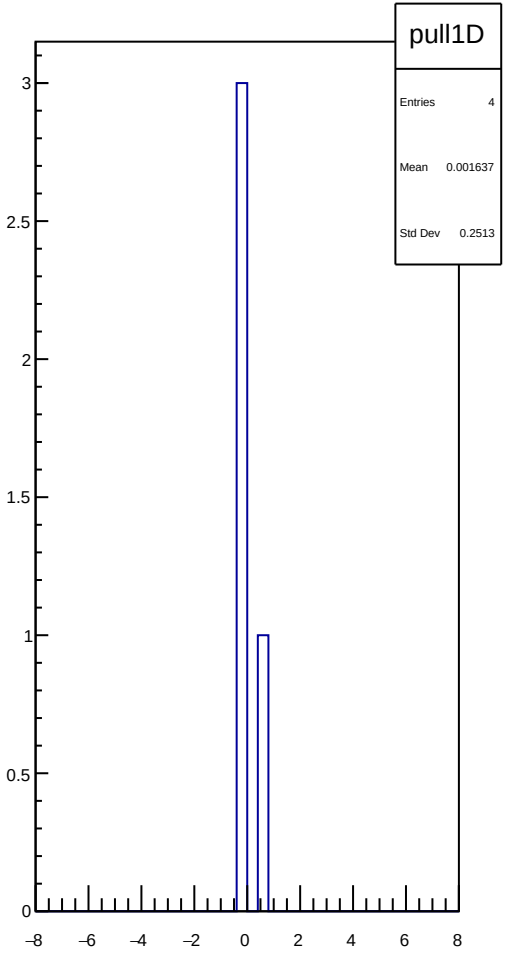

asym_usr_rms vs run
χ² / ndf 131.6 / 3
p0 2172 ± 8.049
2300
2250
2200
2150
2100
2050
6106. 0
6106. 1
6106. 2
6106. 3

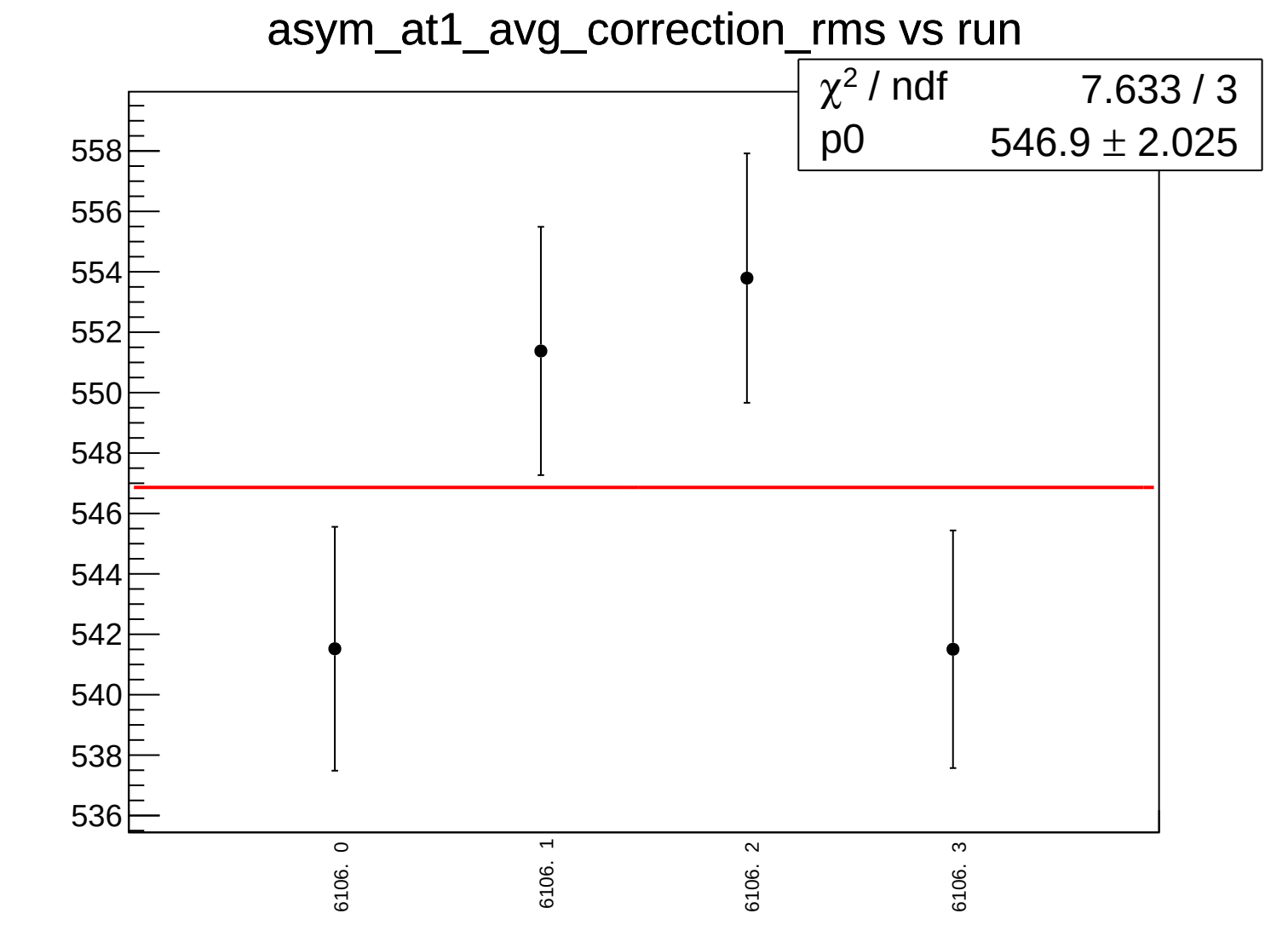

dit_asym_at1_avg_mean vs run
×10^3
χ² / ndf 6.312 / 3
p0 7139 ± 3.845e+04
200
100
0
−100
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 12.35
Std Dev 9.709
1.5
1
0.5
0
−0.5
−1
−1.5

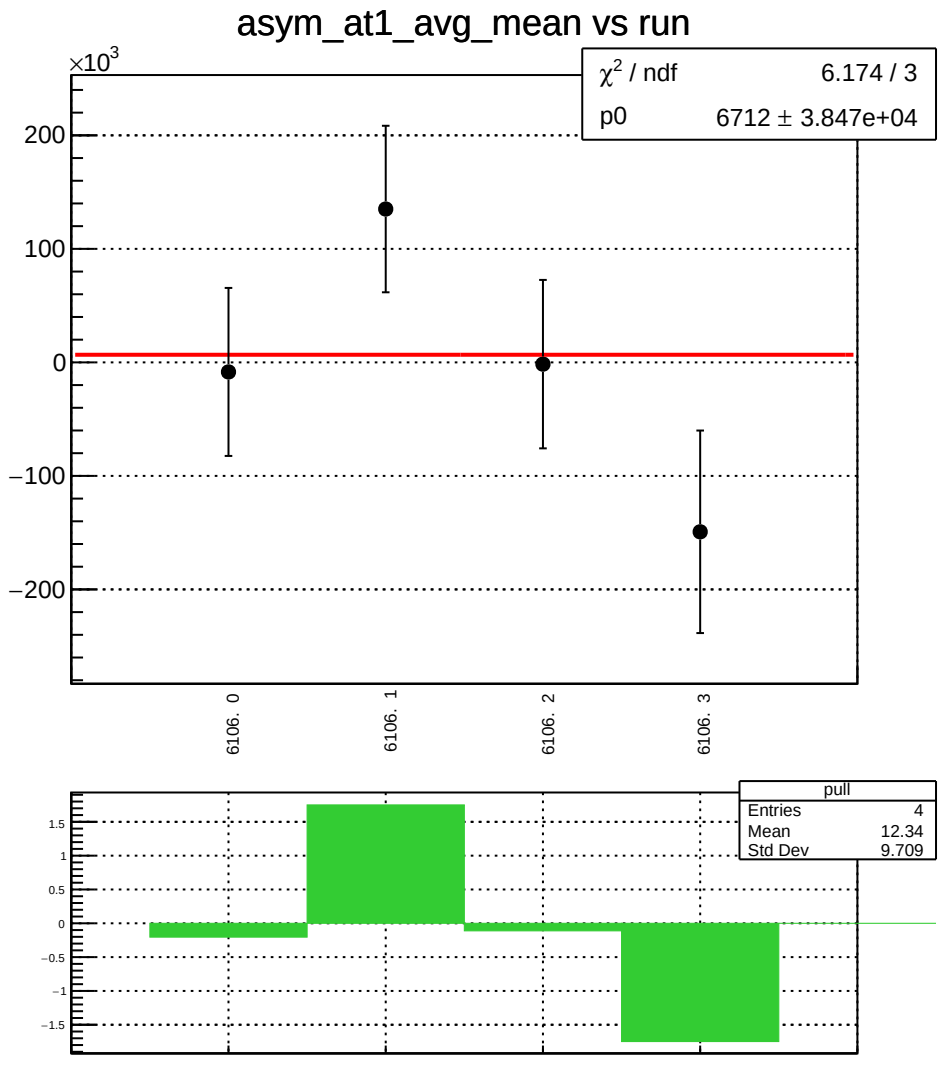

pull1D
Entries 4
Mean −0.07827
Std Dev 1.254
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

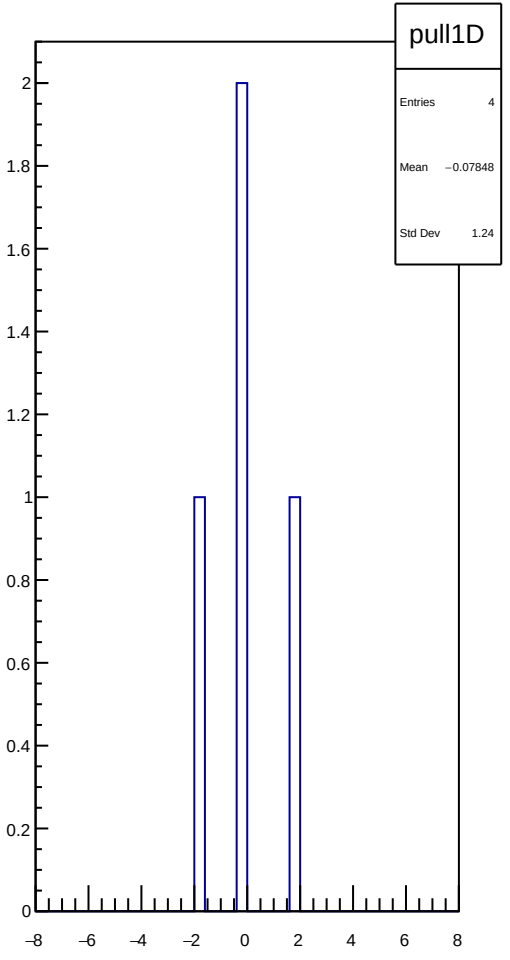

dit_asym_at1_avg_rms vs run
χ² / ndf 577.2 / 3
p0 7315 ± 27.19
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6106. 0
6106. 1
6106. 2
6106. 3

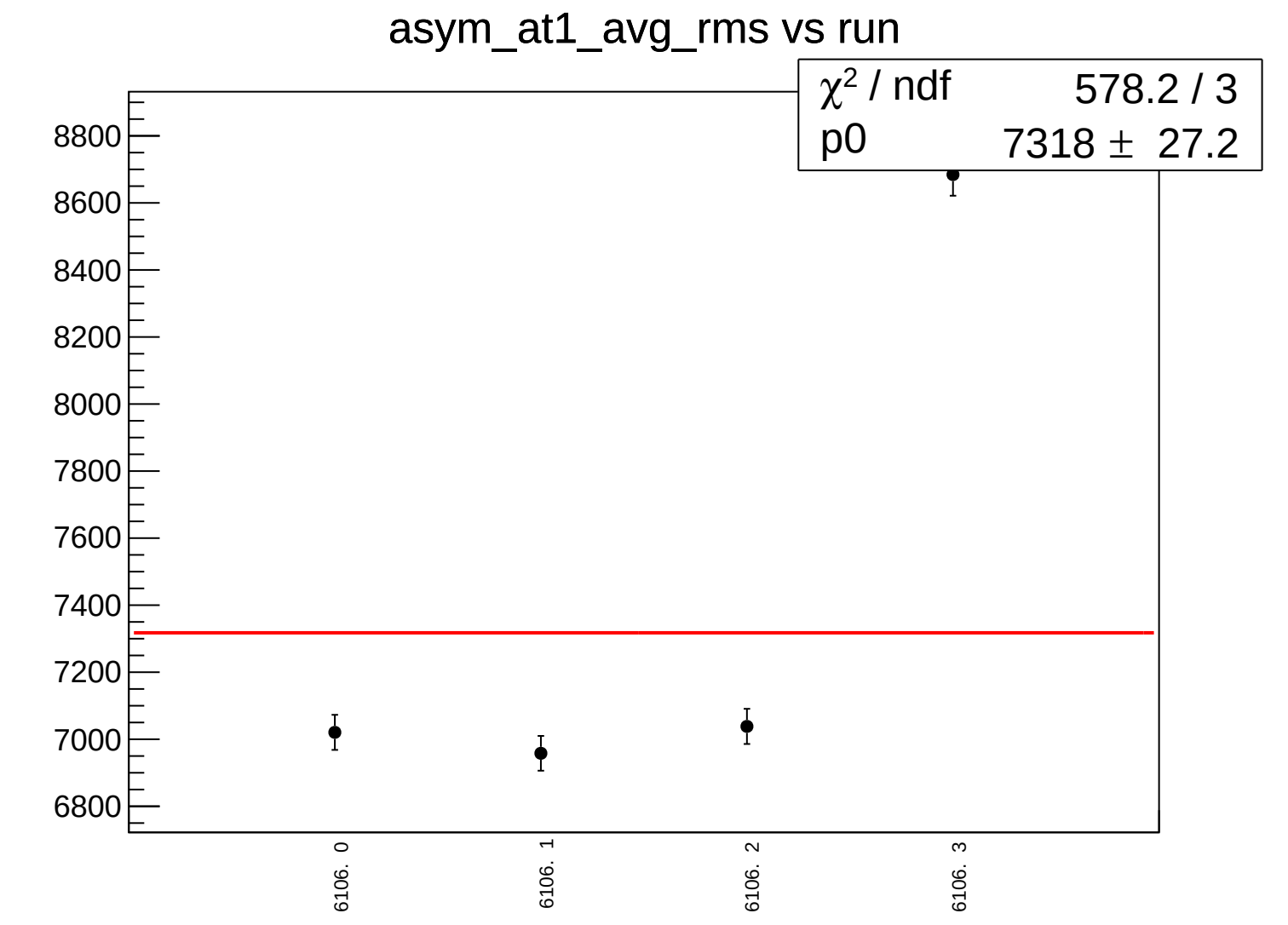

asym_at1_avg_correction_mean vs run
χ² / ndf 0.2525 / 3
p0 442.3 ± 2863
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 13.05
Std Dev 14.74
0.4
0.3
0.2
0.1
0
−0.1
−0.2

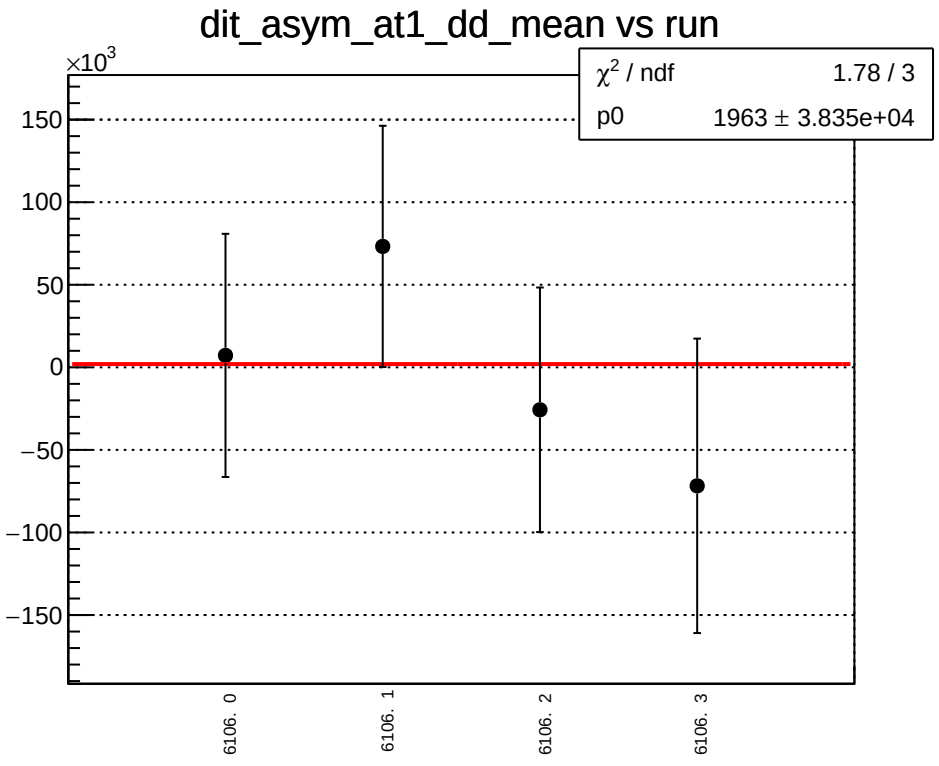

pull1D
Entries 4
Mean 0.001637
Std Dev 0.2513
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

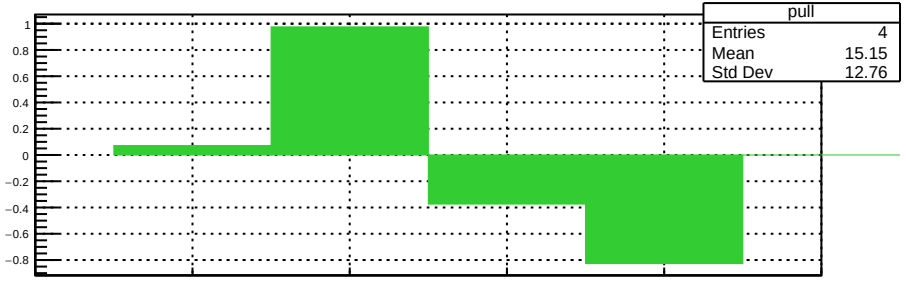

asym_at1_avg_correction_rms vs run
χ² / ndf 7.633 / 3
p0 546.9 ± 2.025
558
556
554
552
550
548
546
544
542
540
538
536
6106. 0
6106. 1
6106. 2
6106. 3

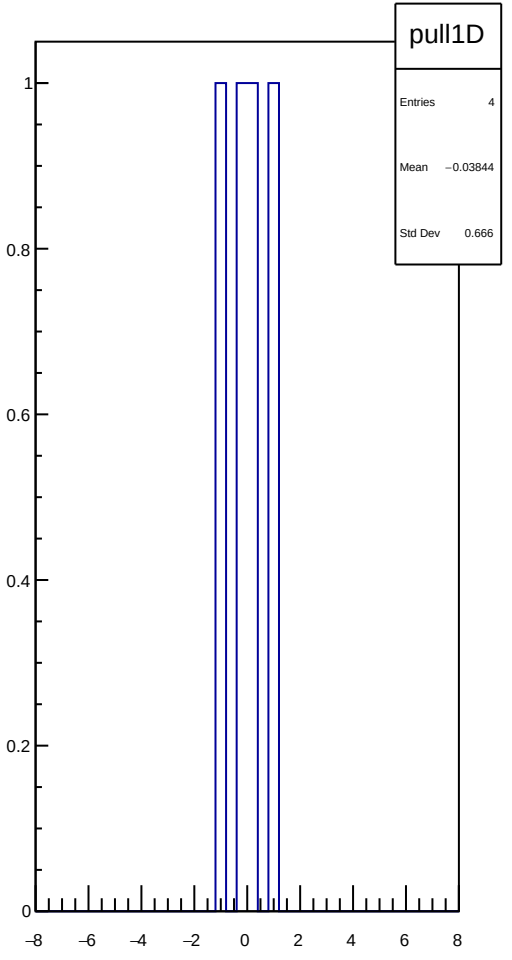

asym_at1_avg_mean vs run
×10^3
χ² / ndf 6.174 / 3
p0 6712 ± 3.847e+04
200
100
0
−100
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 12.34
Std Dev 9.709
1.5
1
0.5
0
−0.5
−1
−1.5

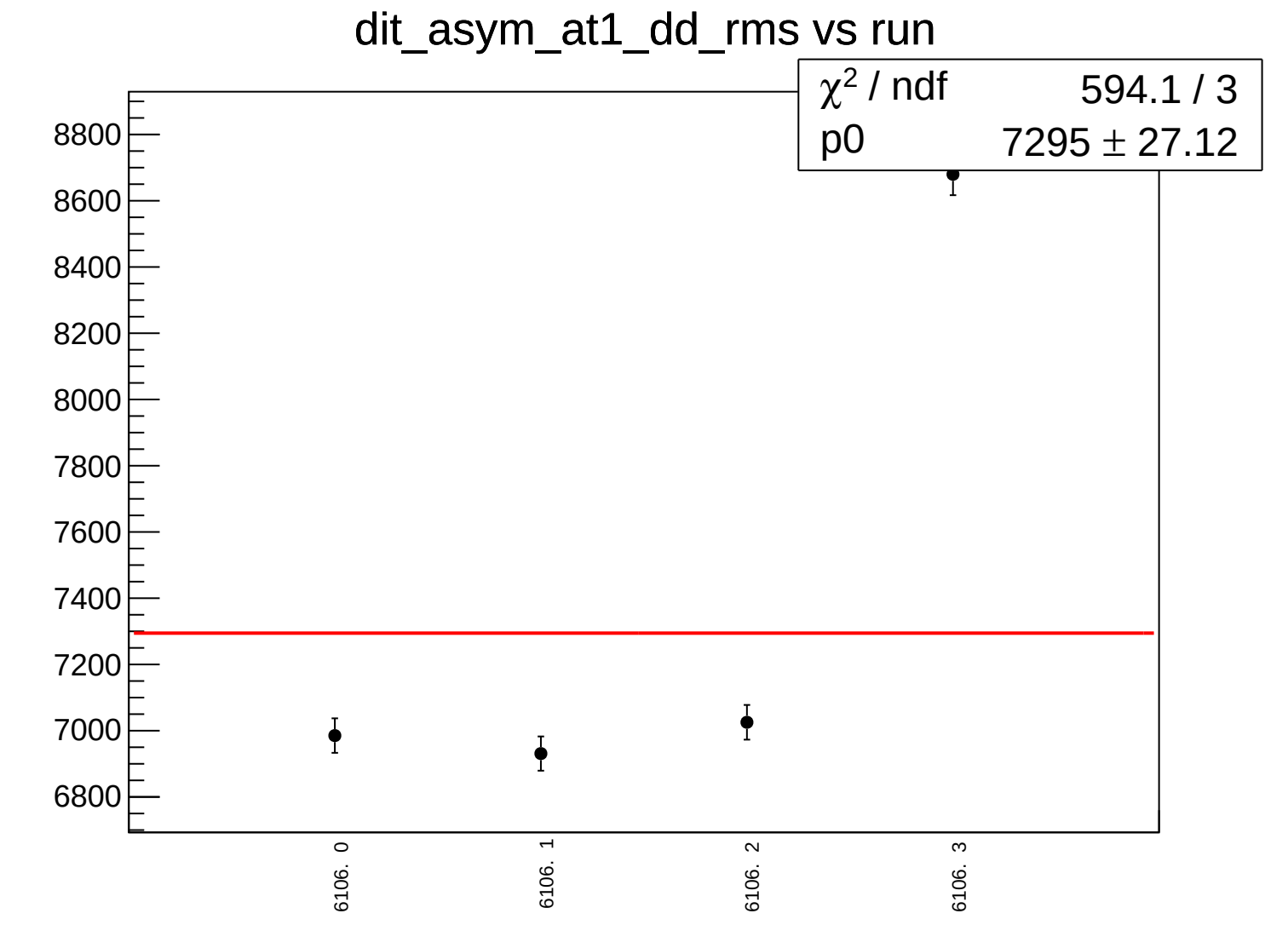

pull1D
Entries 4
Mean −0.07848
Std Dev 1.24
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

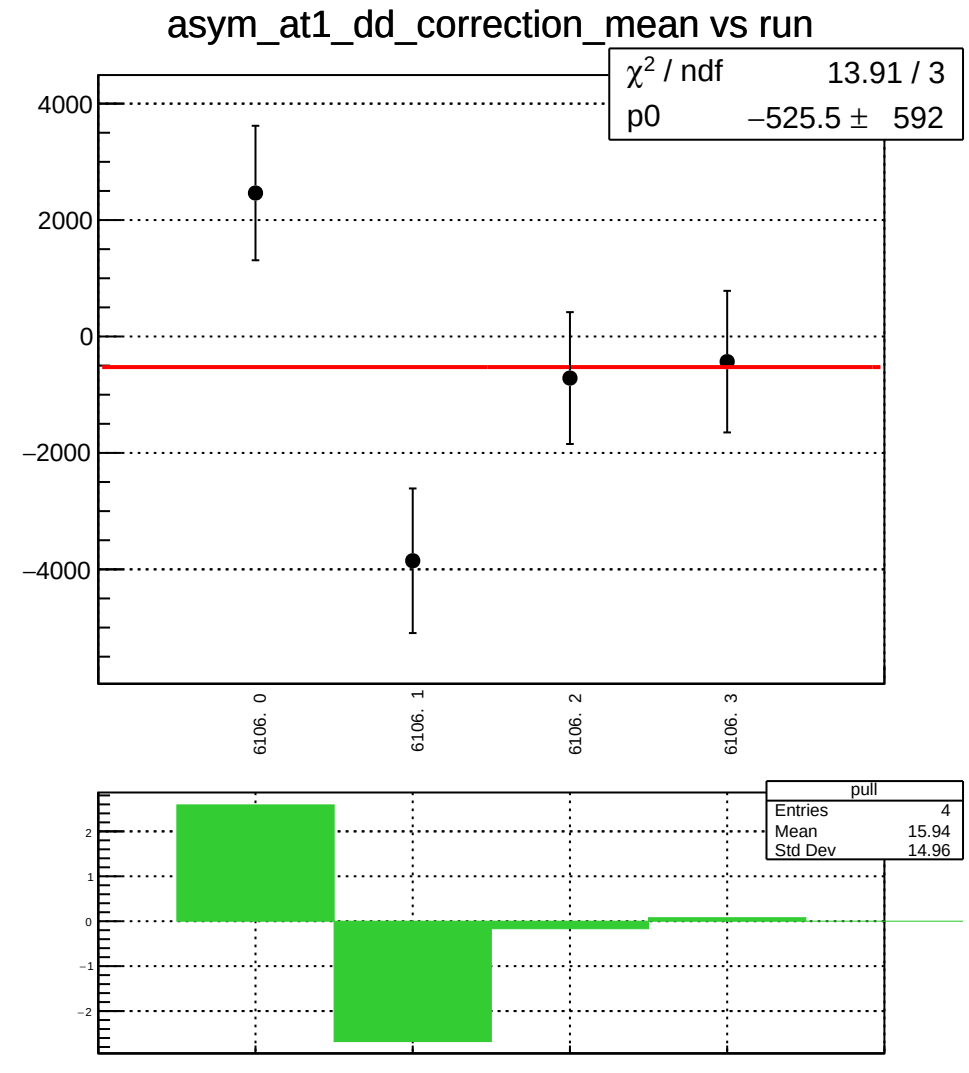

asym_at1_avg_rms vs run
χ² / ndf 578.2 / 3
p0 7318 ± 27.2
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6106. 0
6106. 1
6106. 2
6106. 3

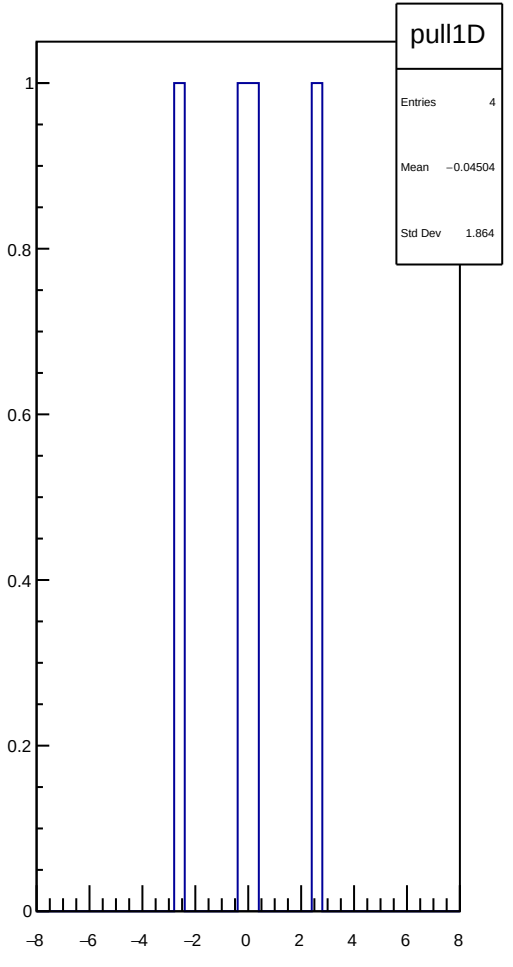

dit_asym_at1_dd_mean vs run
×10^3
χ² / ndf 1.78 / 3
p0 1963 ± 3.835e+04
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3

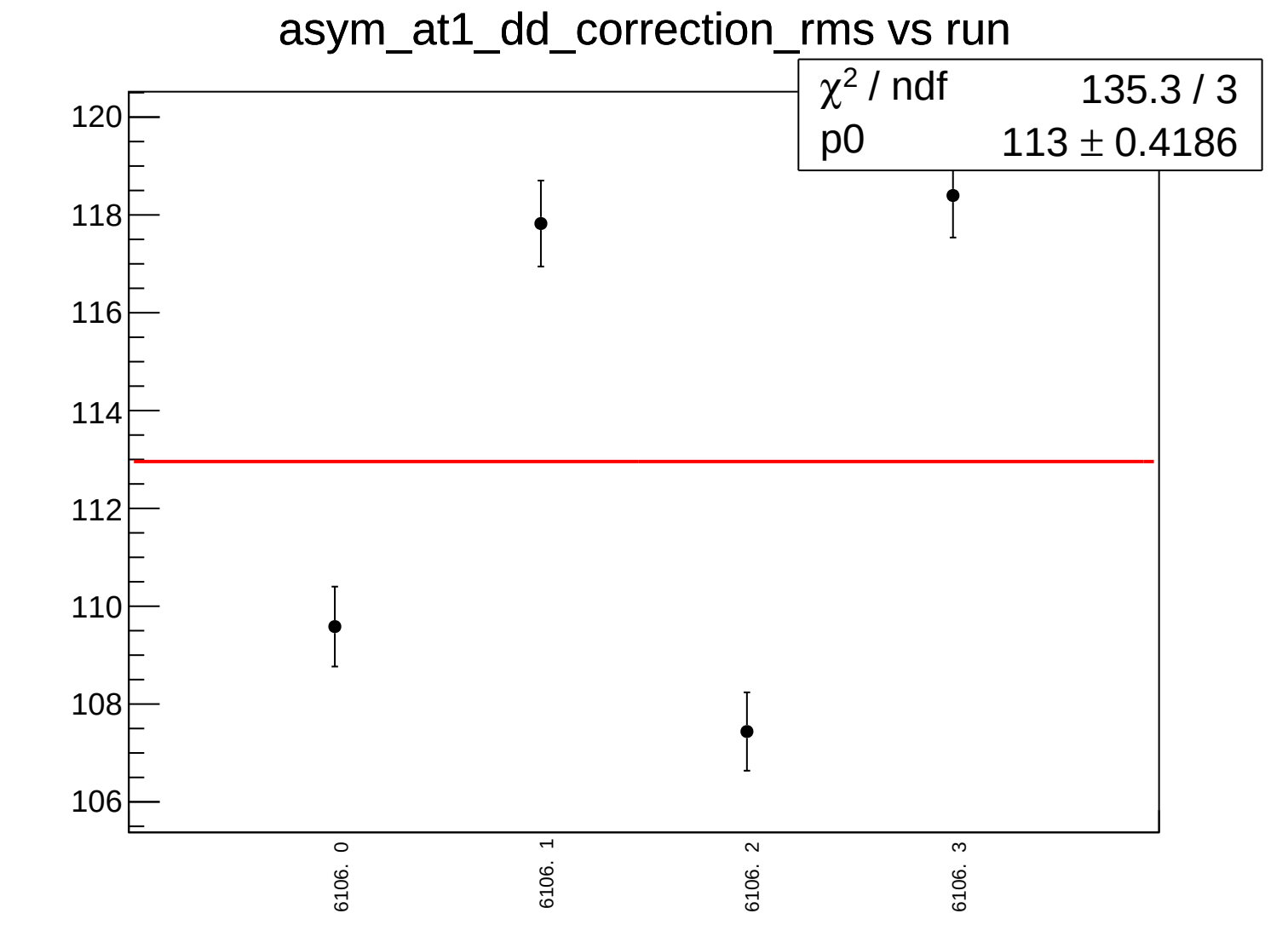

pull
Entries 4
Mean 15.15
Std Dev 12.76
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

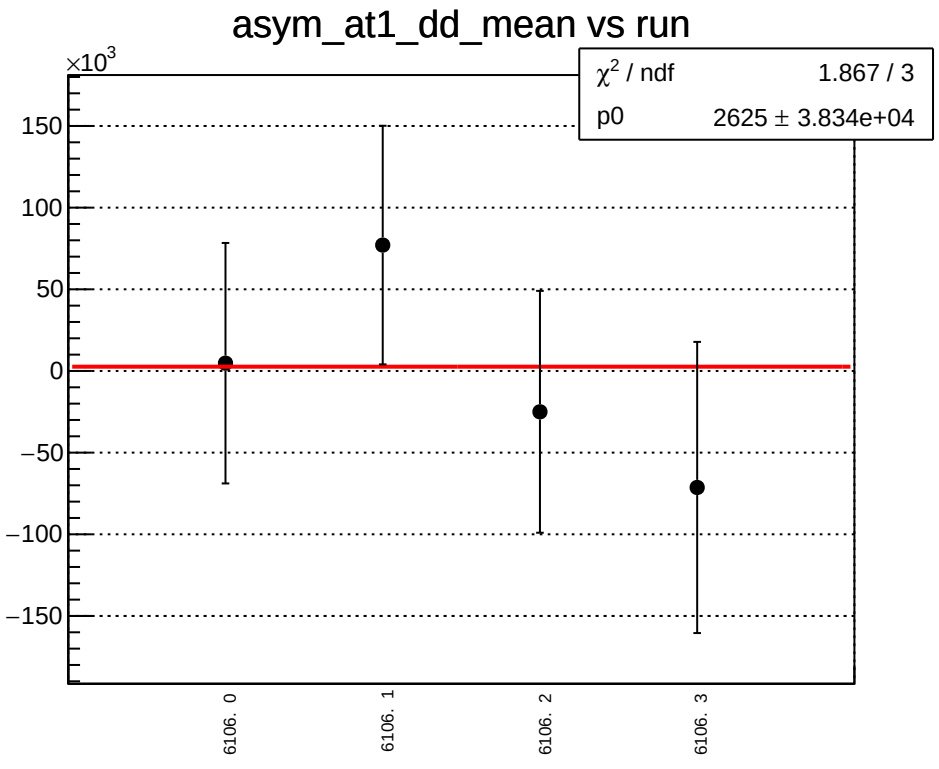

pull1D
Entries 4
Mean −0.03844
Std Dev 0.666
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

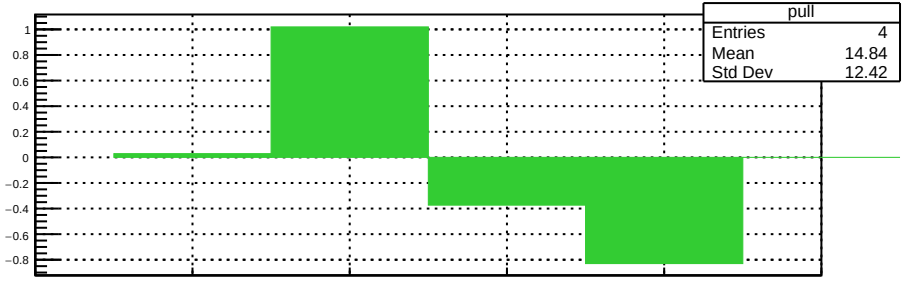

dit_asym_at1_dd_rms vs run
χ² / ndf 594.1 / 3
p0 7295 ± 27.12
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6106. 0
6106. 1
6106. 2
6106. 3

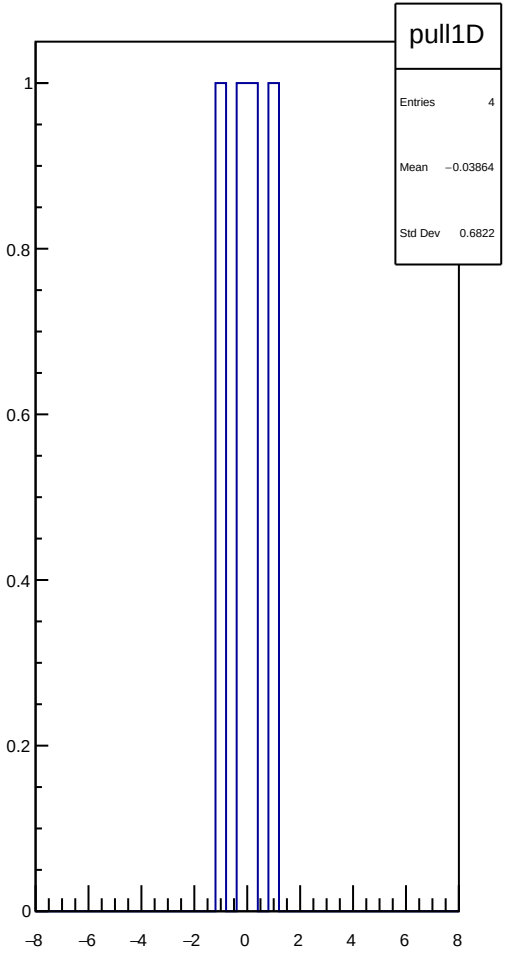

asym_at1_dd_correction_mean vs run
χ² / ndf 13.91 / 3
p0 −525.5 ± 592
4000
2000
0
−2000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 15.94
Std Dev 14.96
2
1
0
−1
−2

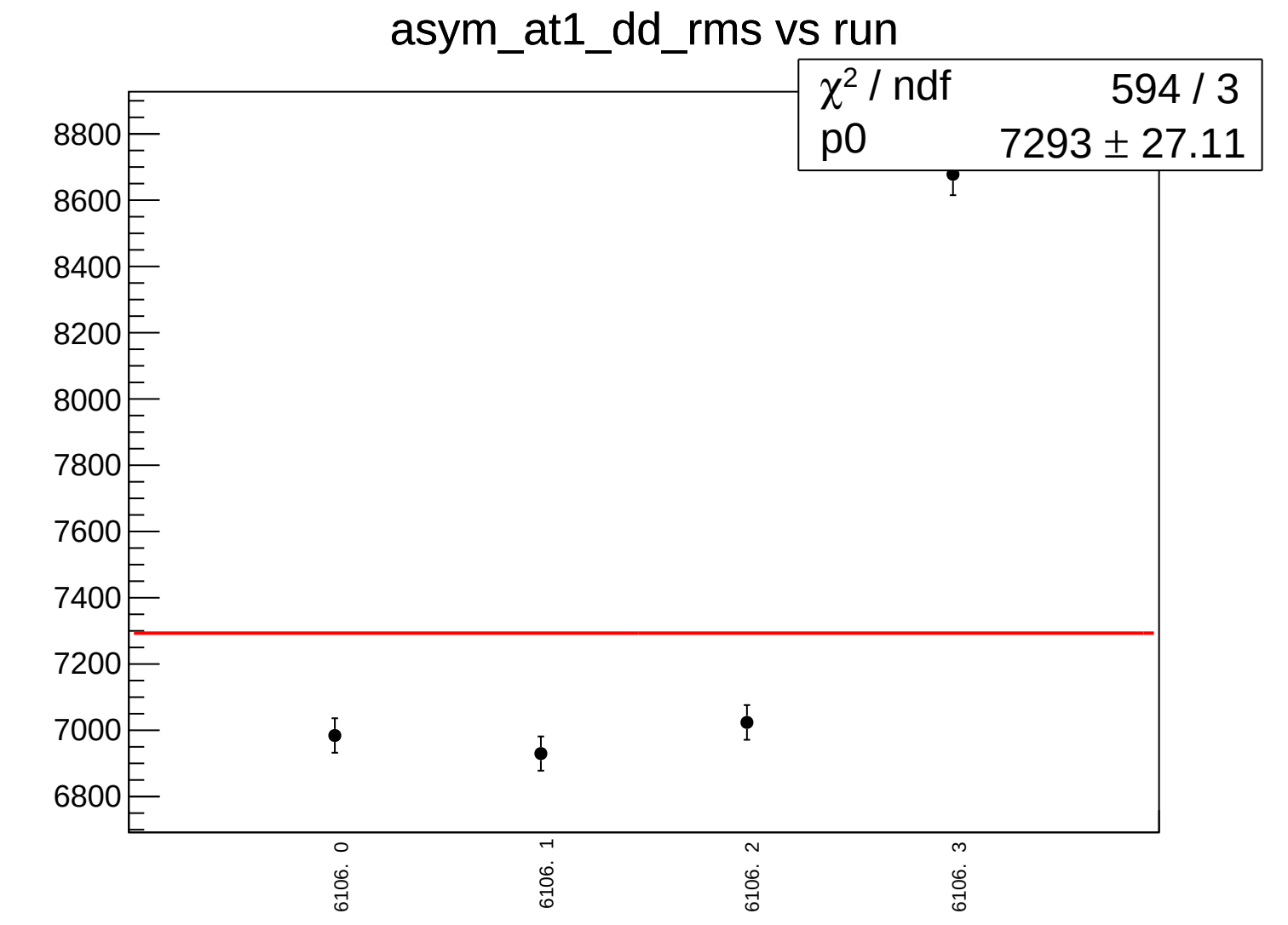

pull1D
Entries 4
Mean −0.04504
Std Dev 1.864
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

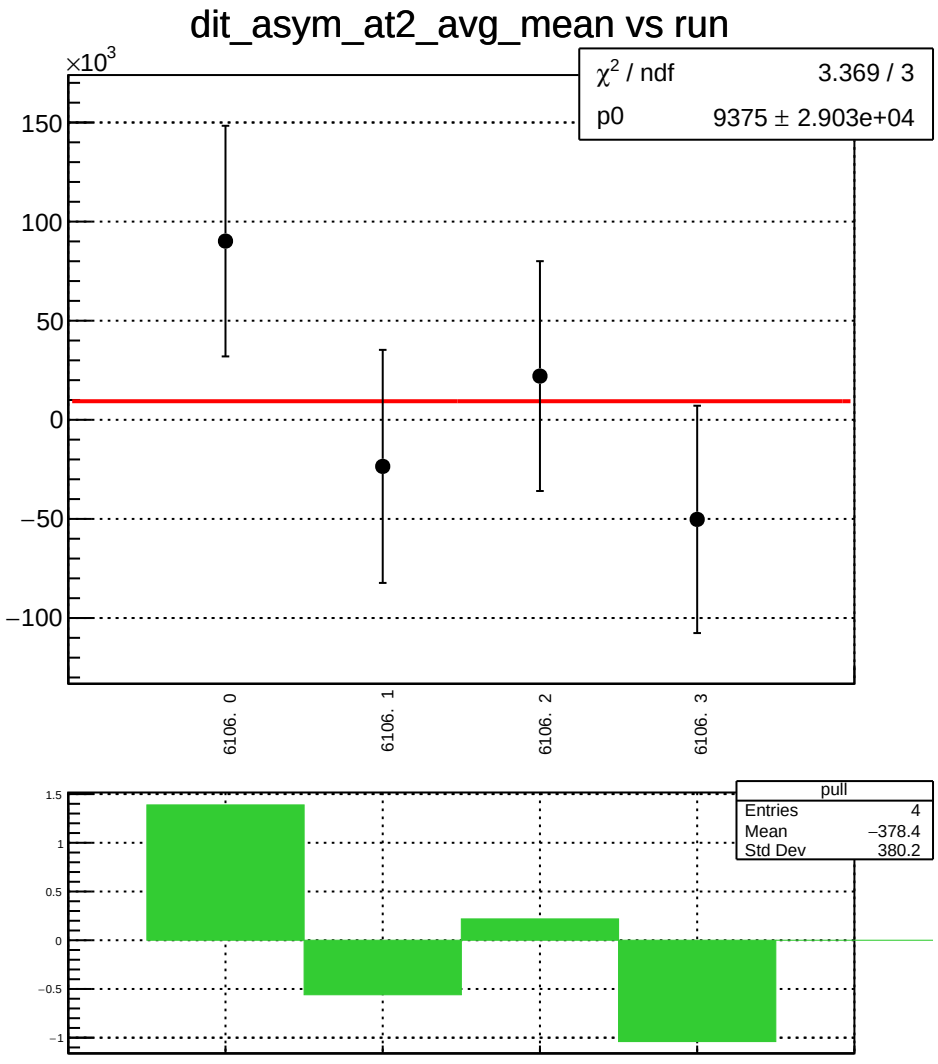

asym_at1_dd_correction_rms vs run
χ² / ndf 135.3 / 3
p0 113 ± 0.4186
120
118
116
114
112
110
108
106
6106. 0
6106. 1
6106. 2
6106. 3

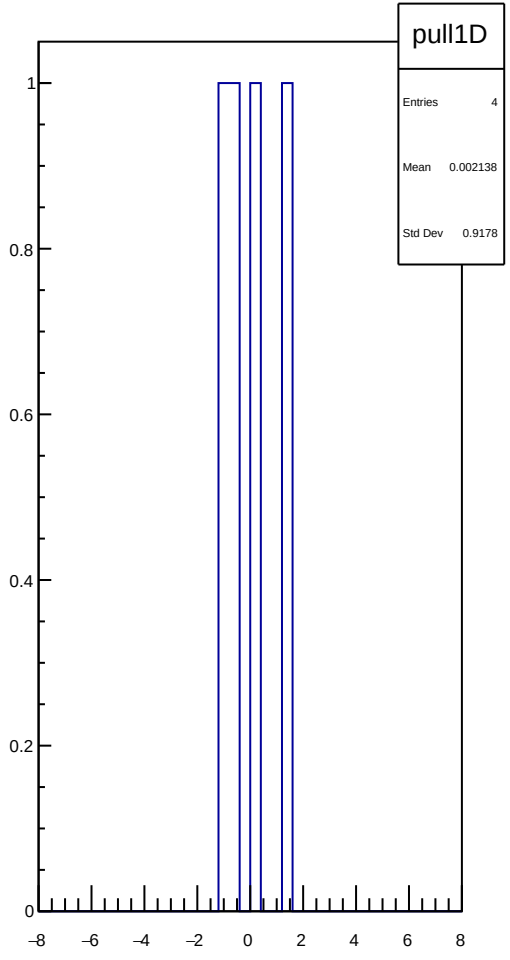

asym_at1_dd_mean vs run
×10^3
χ² / ndf 1.867 / 3
p0 2625 ± 3.834e+04
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3

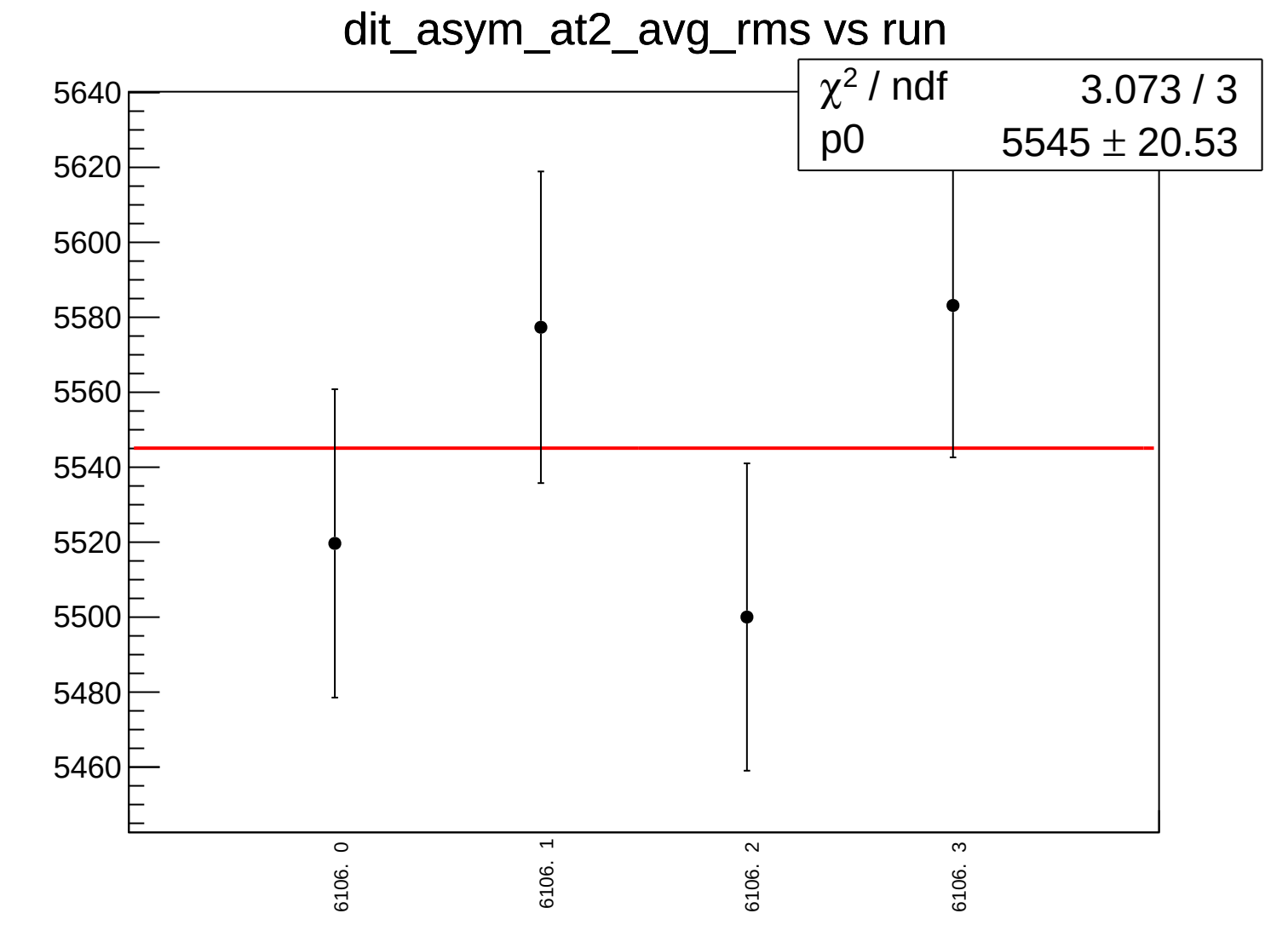

pull
Entries 4
Mean 14.84
Std Dev 12.42
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

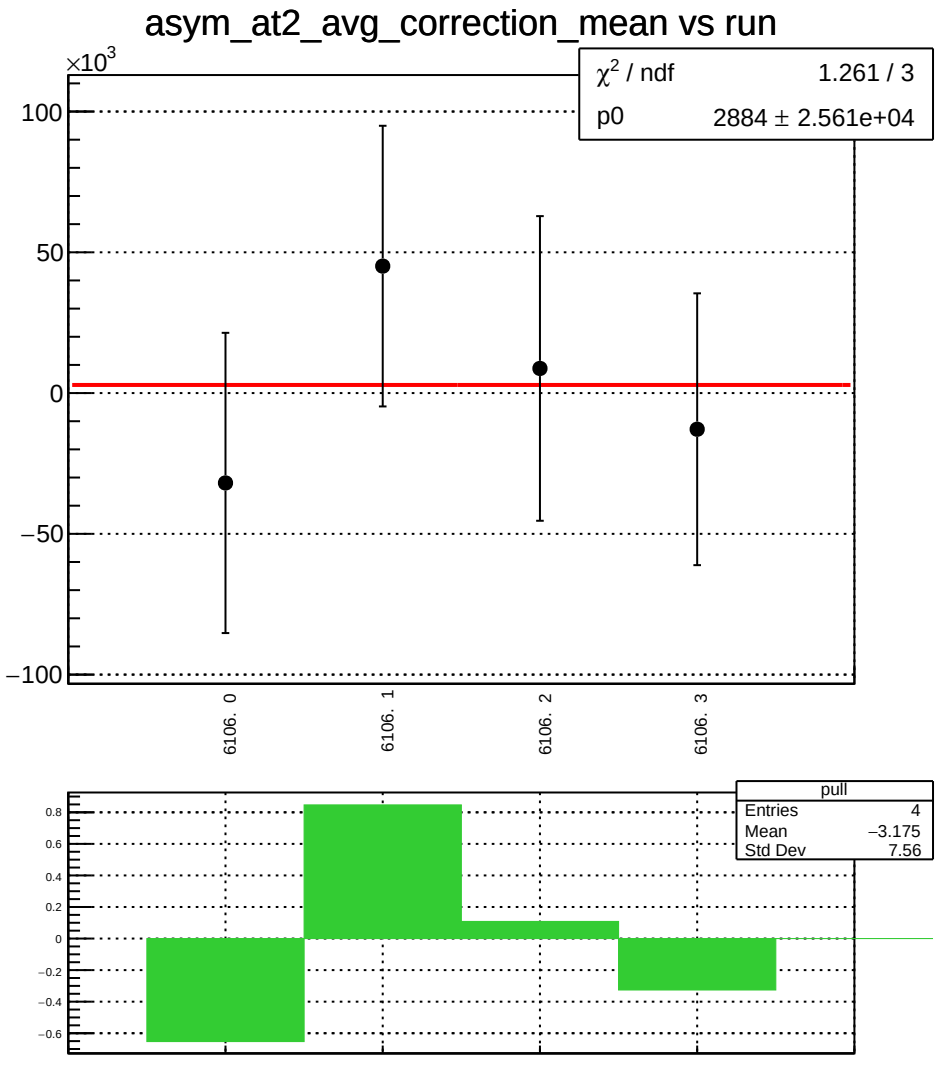

pull1D
Entries 4
Mean −0.03864
Std Dev 0.6822
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

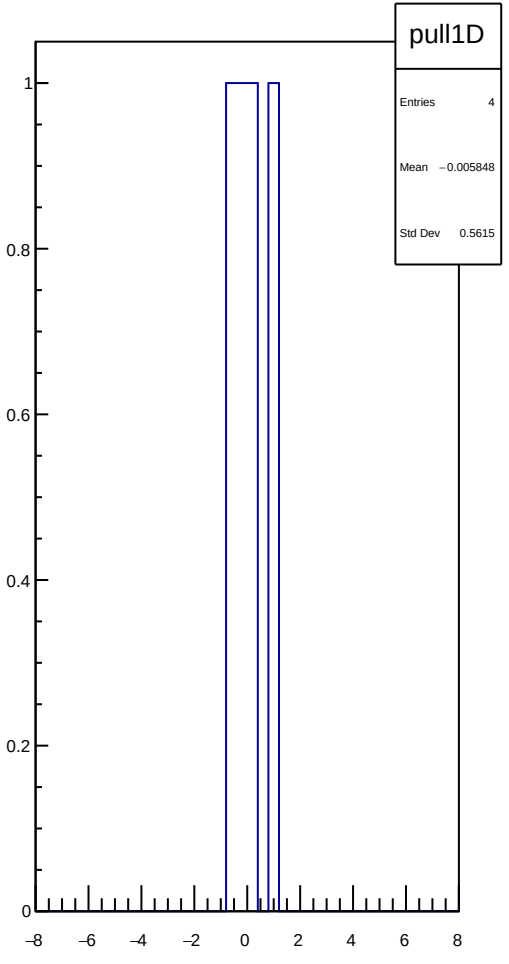

asym_at1_dd_rms vs run
χ² / ndf 594 / 3
p0 7293 ± 27.11
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6106. 0
6106. 1
6106. 2
6106. 3

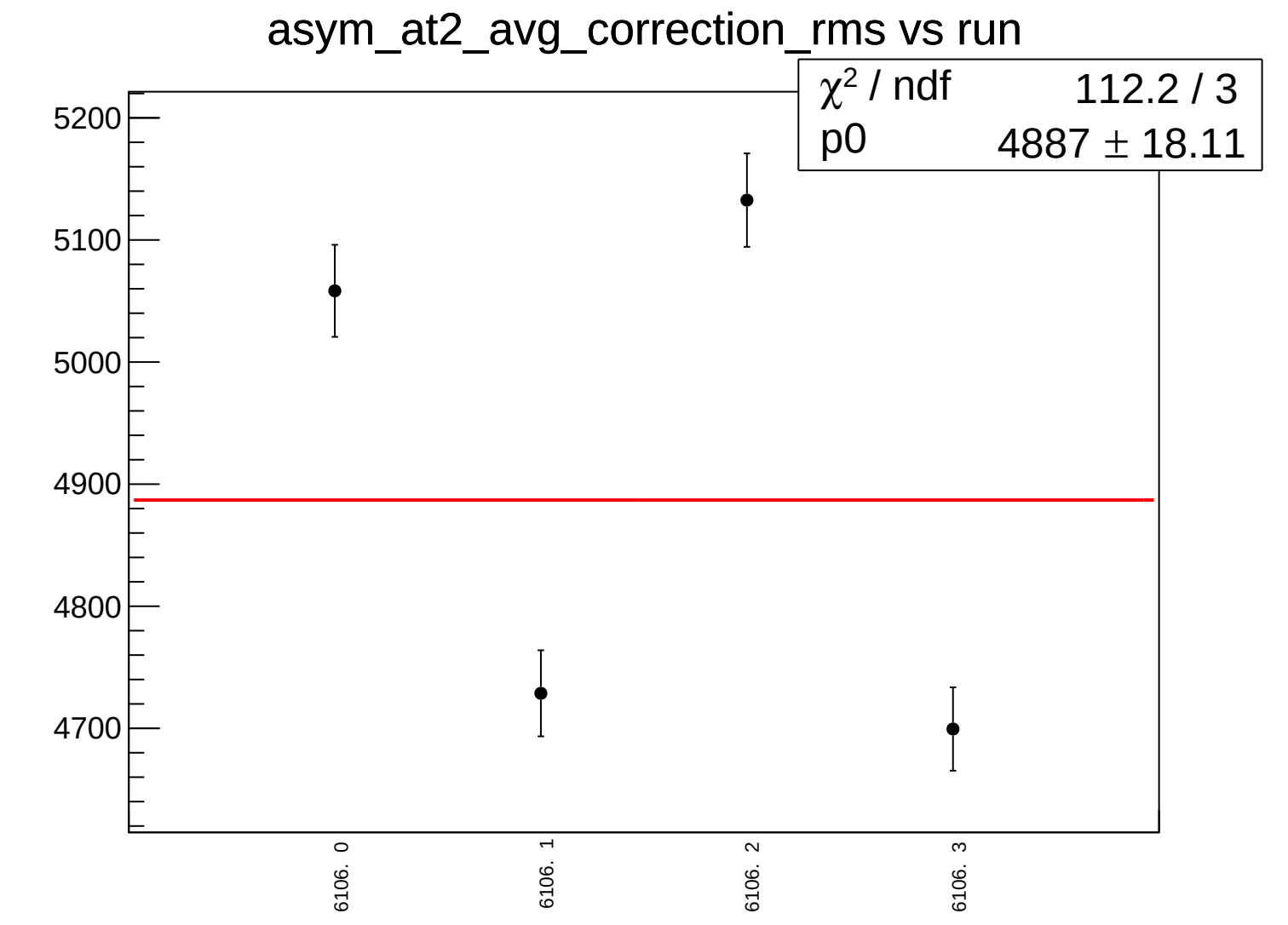

dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 3.369 / 3
p0 9375 ± 2.903e+04
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −378.4
Std Dev 380.2
1.5
1
0.5
0
−0.5
−1

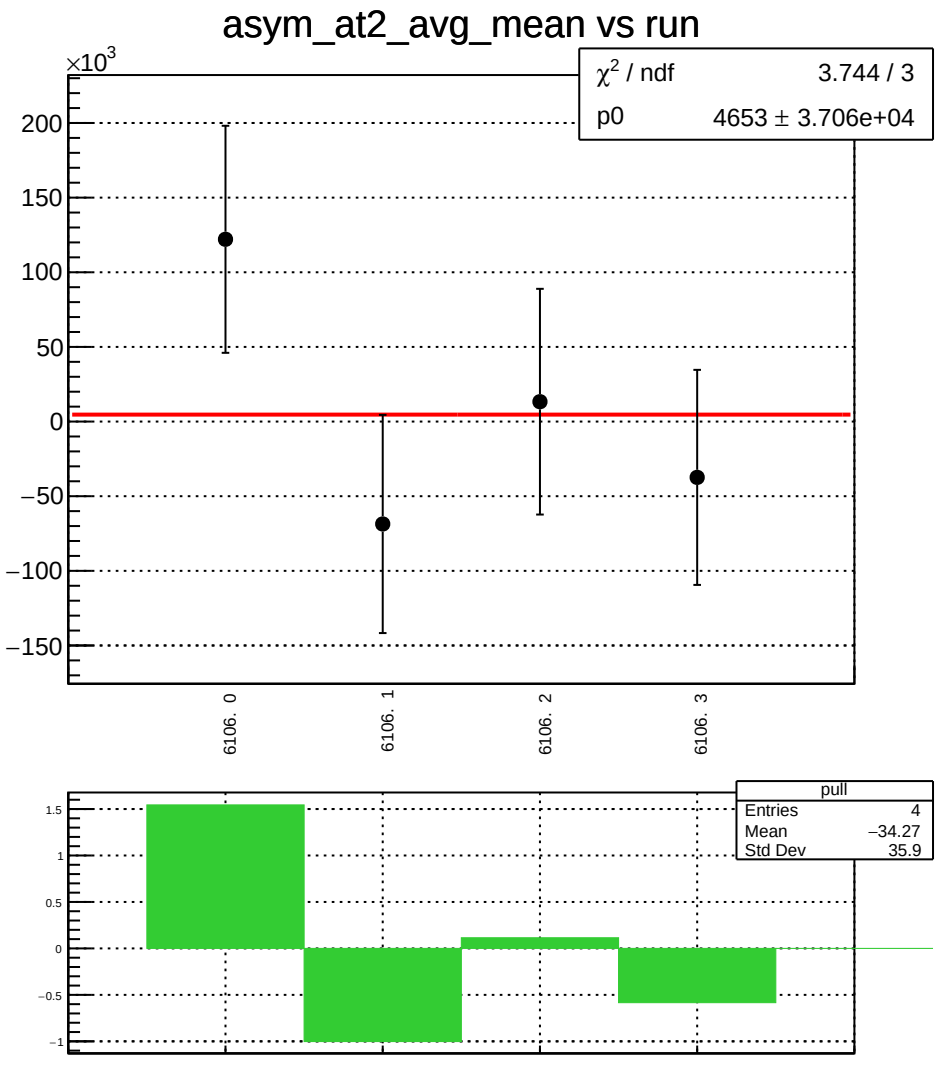

pull1D
Entries 4
Mean 0.002138
Std Dev 0.9178
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

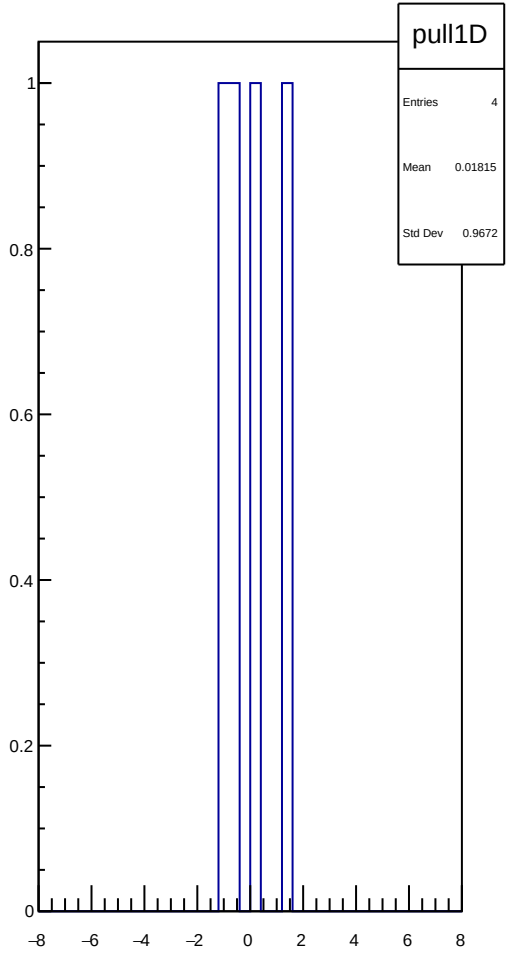

dit_asym_at2_avg_rms vs run
χ² / ndf 3.073 / 3
p0 5545 ± 20.53
5640
5620
5600
5580
5560
5540
5520
5500
5480
5460
6106. 0
6106. 1
6106. 2
6106. 3

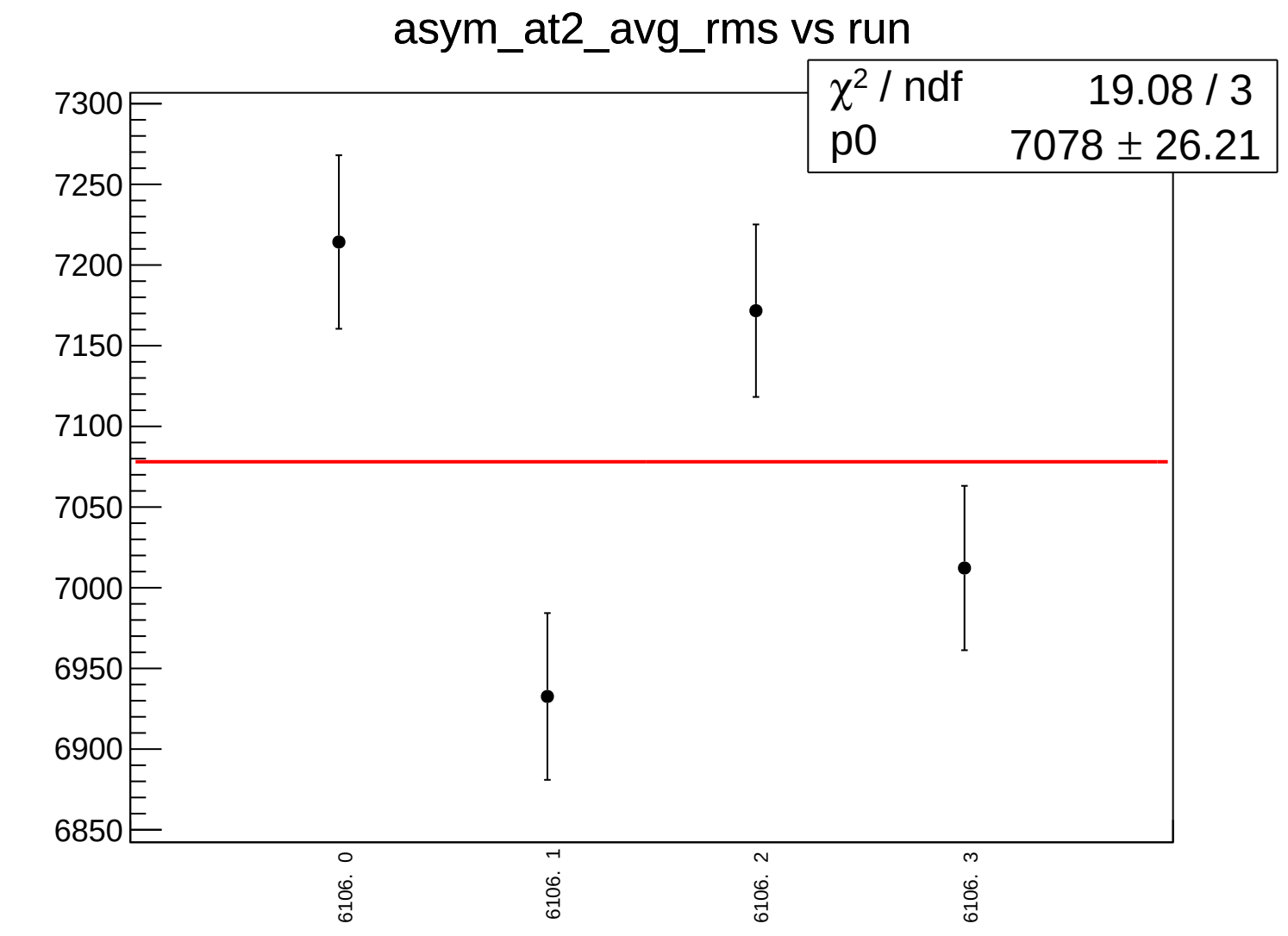

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 1.261 / 3
p0 2884 ± 2.561e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.175
Std Dev 7.56
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

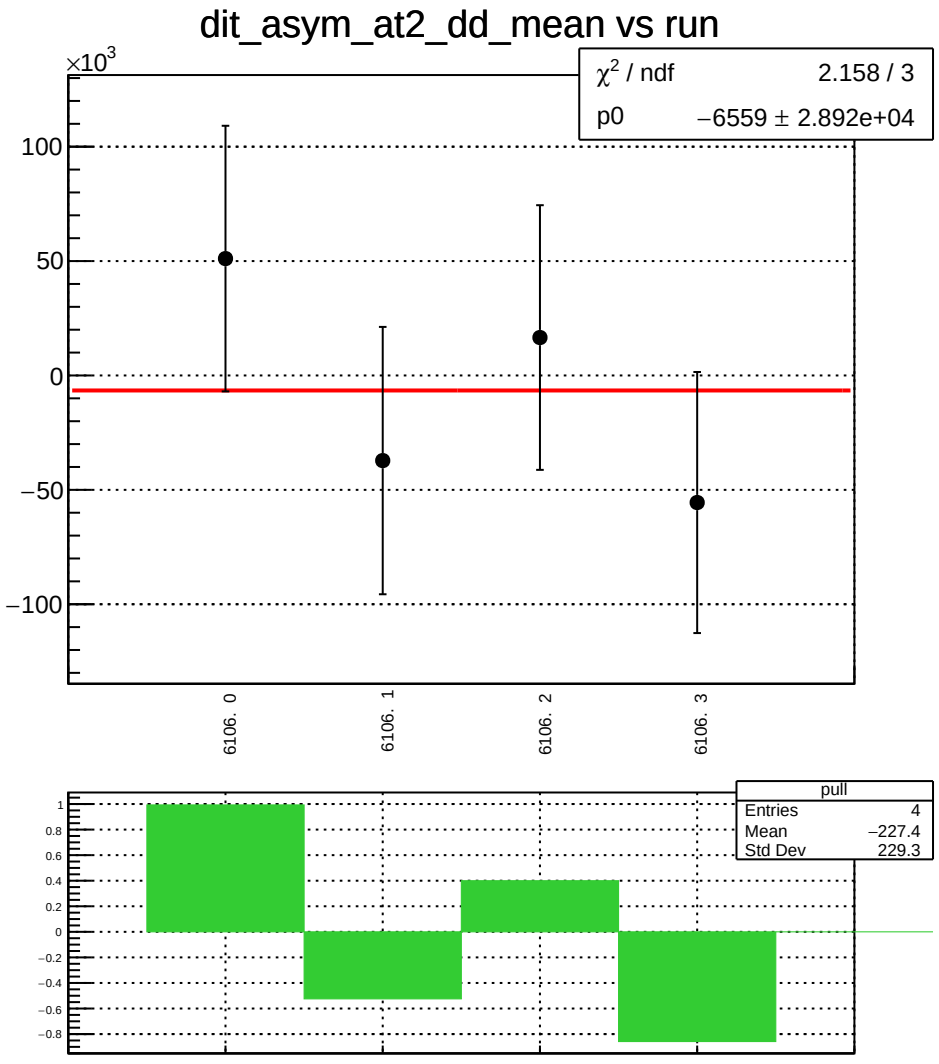

pull1D
Entries 4
Mean −0.005848
Std Dev 0.5615
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

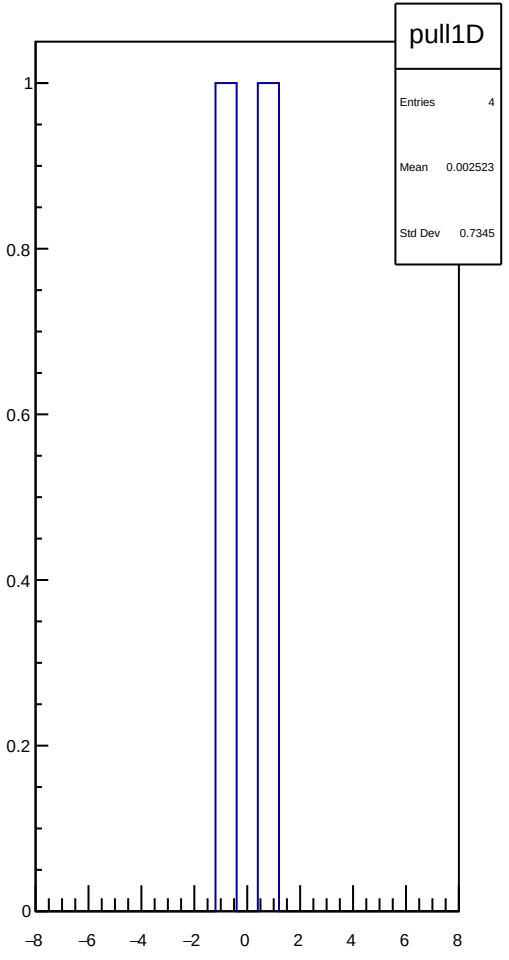

asym_at2_avg_correction_rms vs run
χ² / ndf 112.2 / 3
p0 4887 ± 18.11
5200
5100
5000
4900
4800
4700
6106. 0
6106. 1
6106. 2
6106. 3

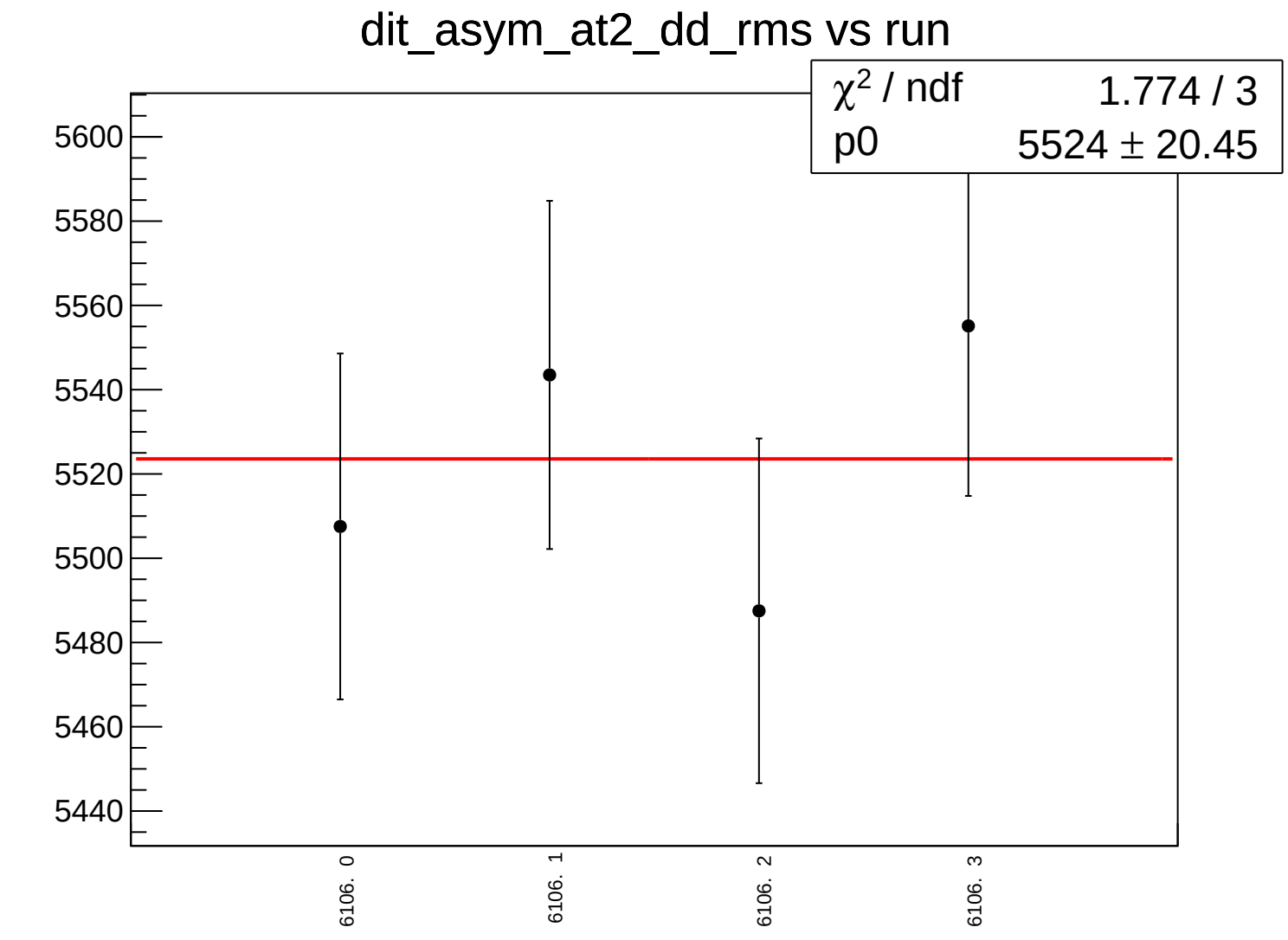

asym_at2_avg_mean vs run
×10^3
χ² / ndf 3.744 / 3
p0 4653 ± 3.706e+04
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −34.27
Std Dev 35.9
1.5
1
0.5
0
−0.5
−1

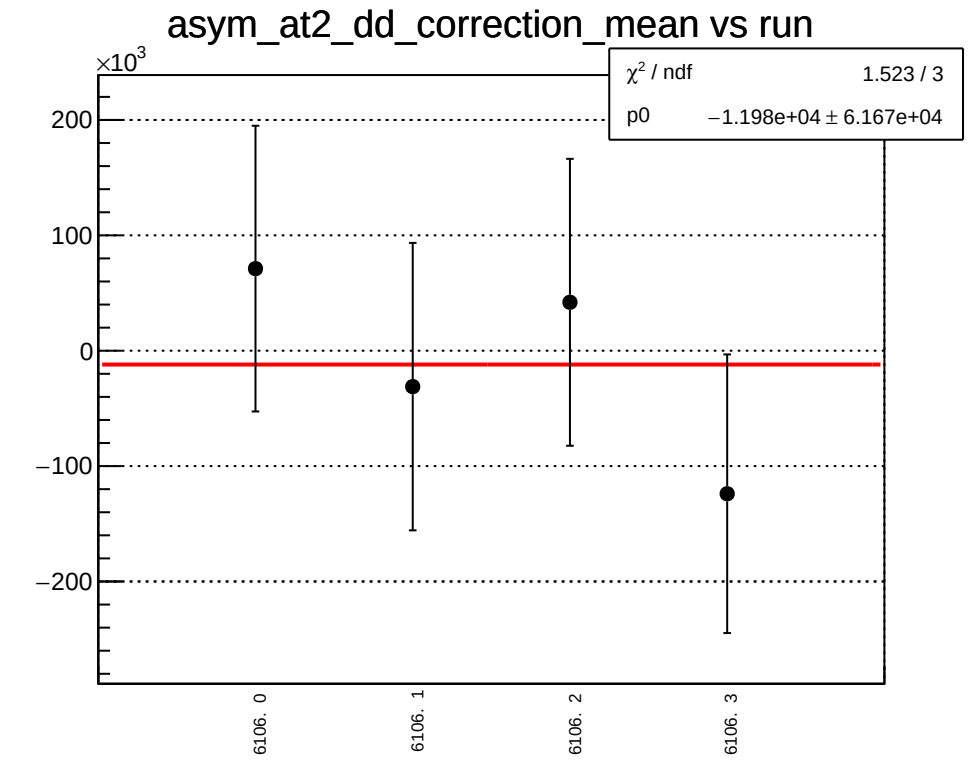

pull1D
Entries 4
Mean 0.01815
Std Dev 0.9672
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

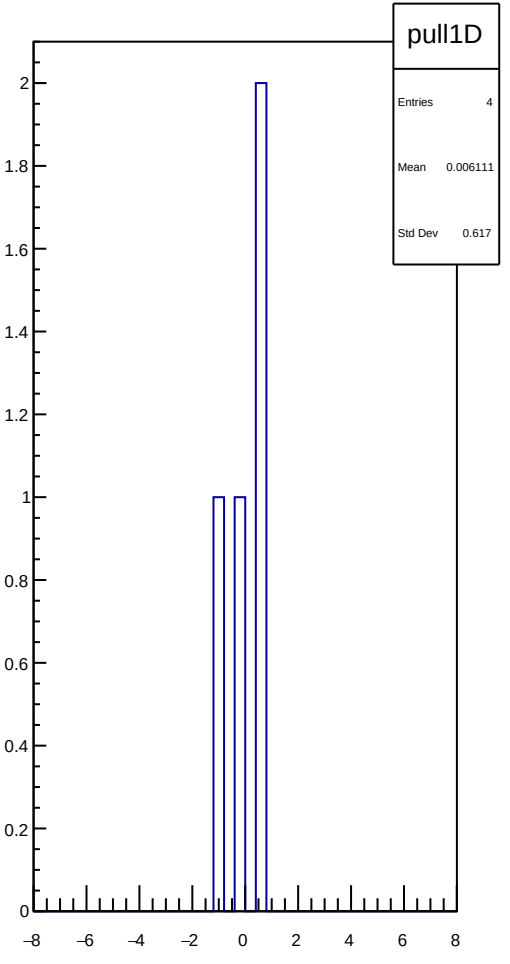

asym_at2_avg_rms vs run
χ² / ndf 19.08 / 3
p0 7078 ± 26.21
7300
7250
7200
7150
7100
7050
7000
6950
6900
6850
6106. 0
6106. 1
6106. 2
6106. 3

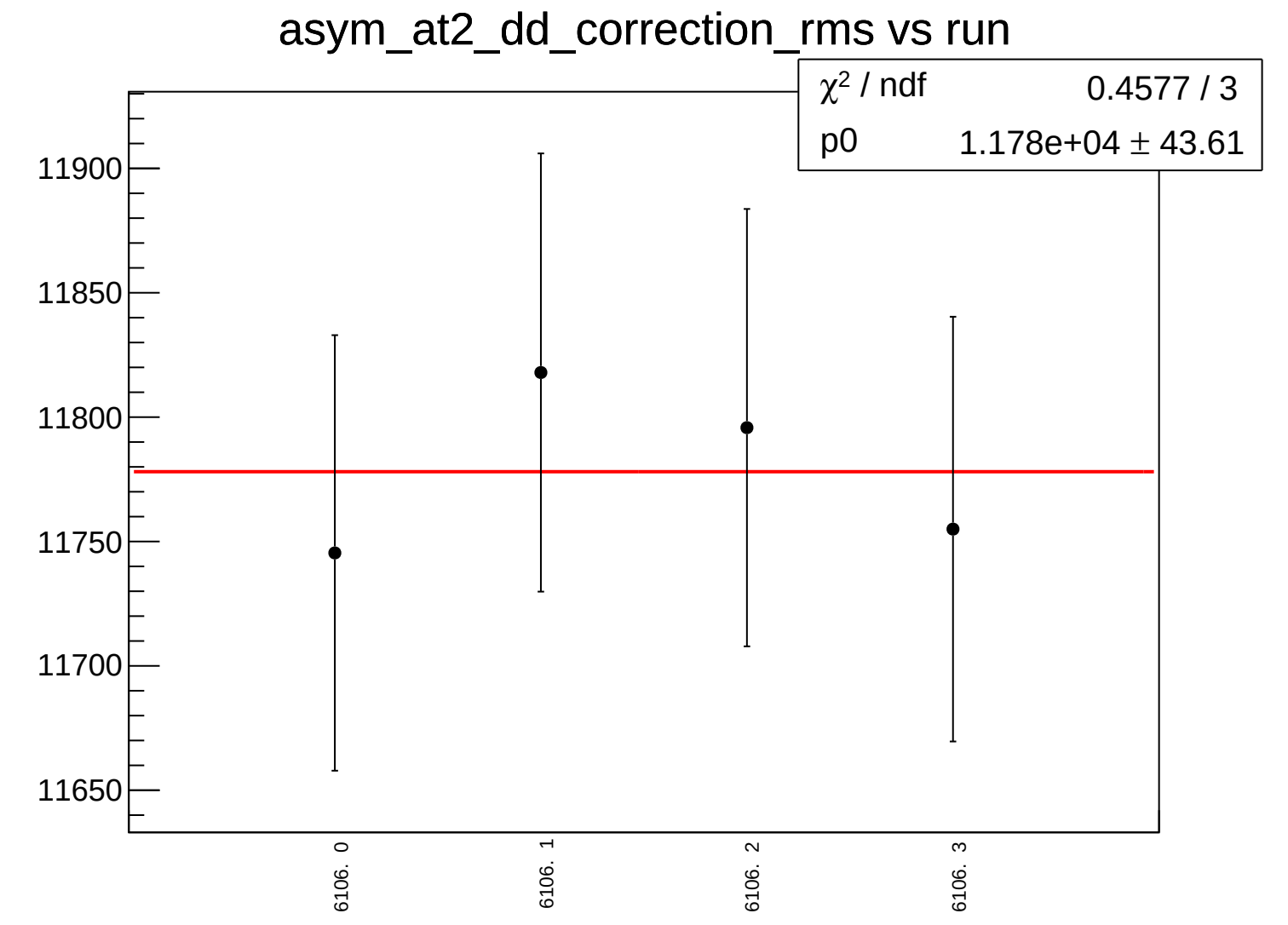

dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 2.158 / 3
p0 −6559 ± 2.892e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −227.4
Std Dev 229.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

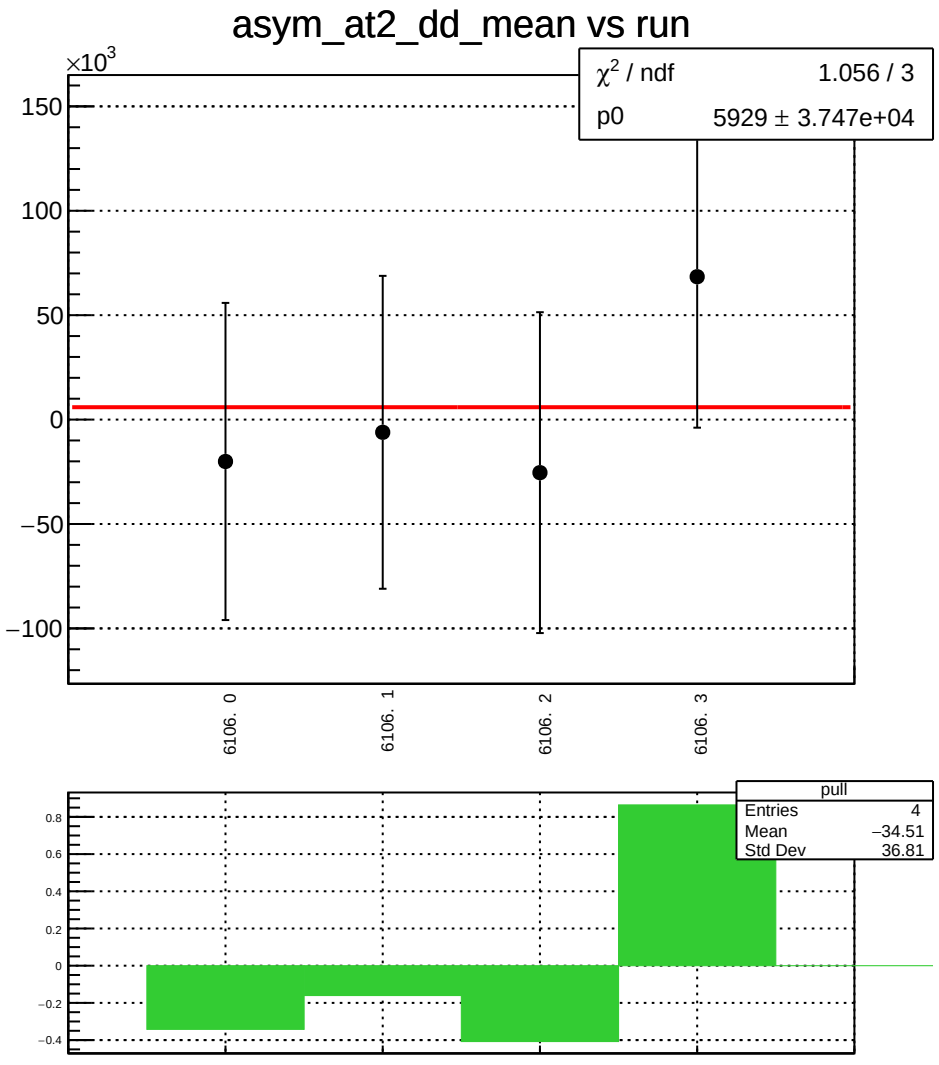

pull1D
Entries 4
Mean 0.002523
Std Dev 0.7345
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

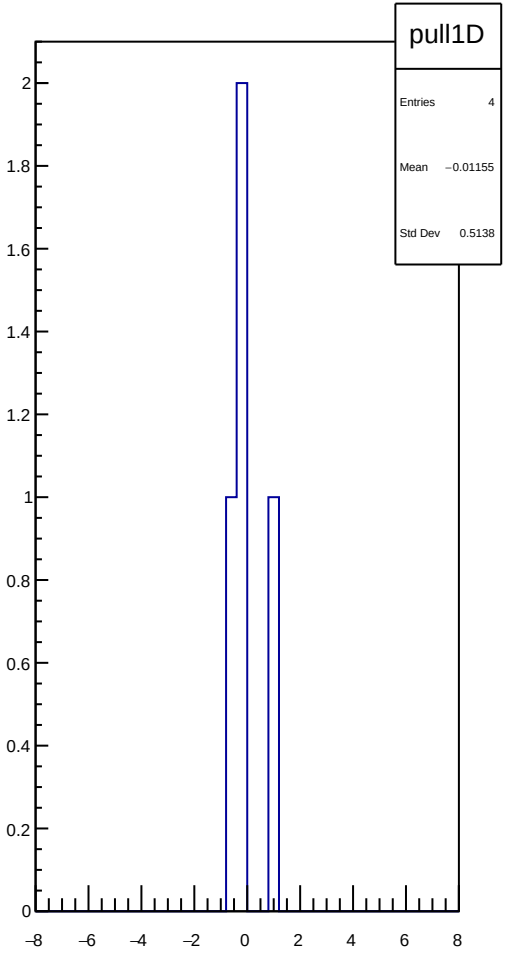

dit_asym_at2_dd_rms vs run
χ² / ndf 1.774 / 3
p0 5524 ± 20.45
5600
5580
5560
5540
5520
5500
5480
5460
5440
6106. 0
6106. 1
6106. 2
6106. 3

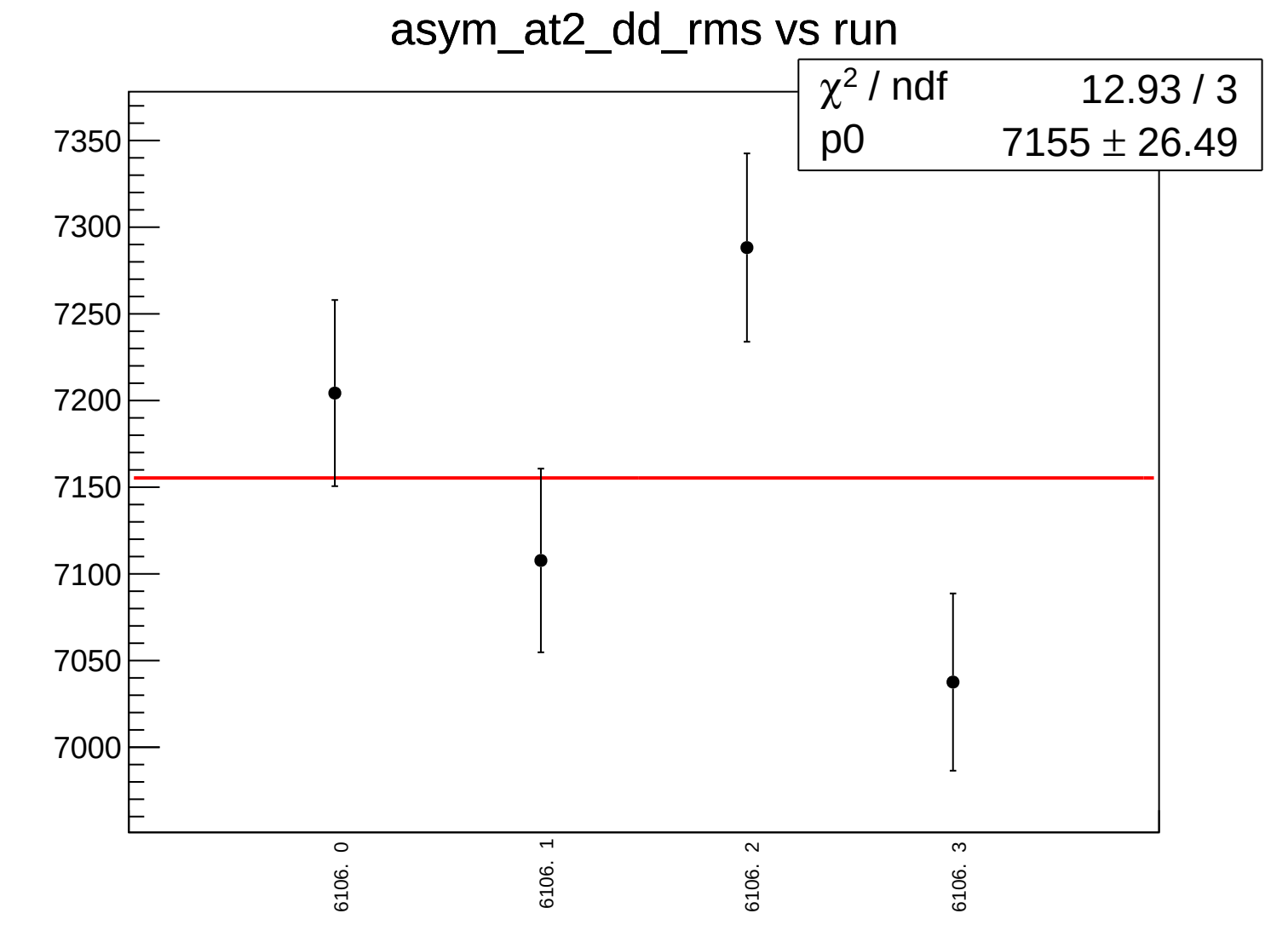

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 1.523 / 3
p0 −1.198e+04 ± 6.167e+04
200
100
0
−100
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −84.09
Std Dev 86.21
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

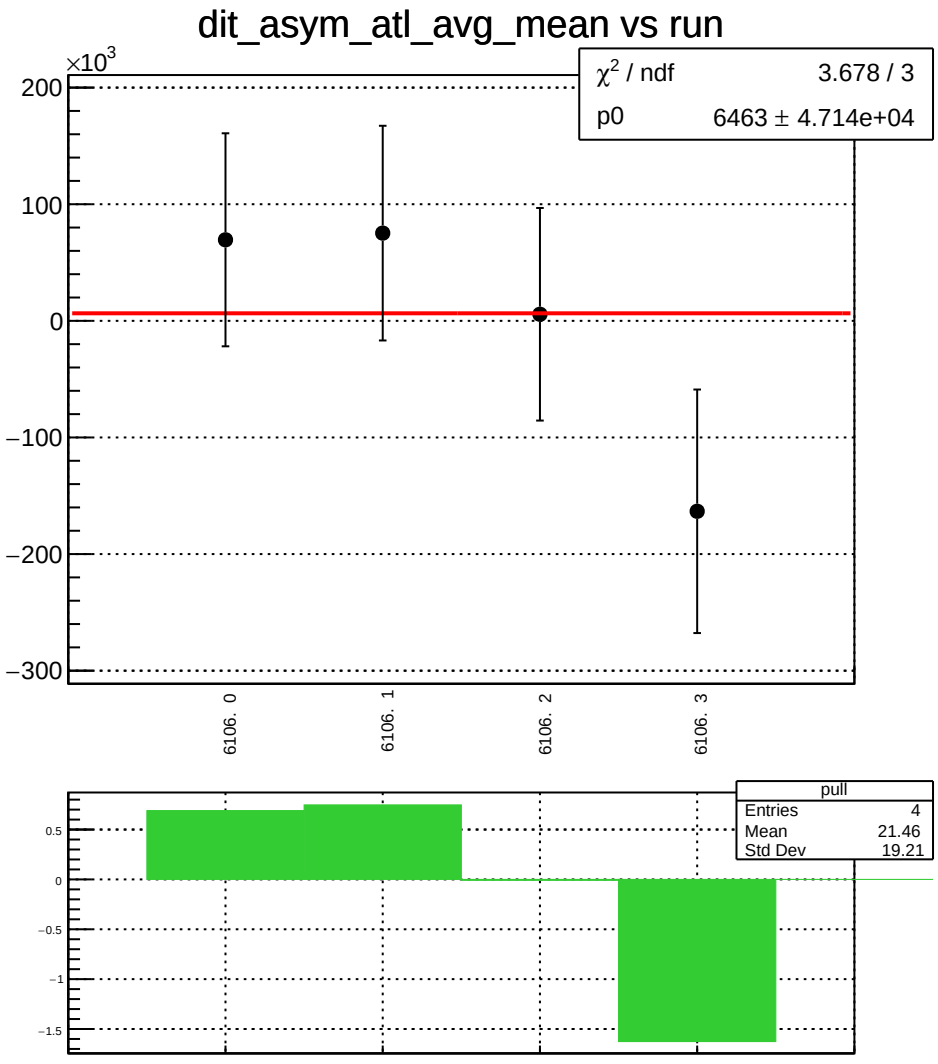

pull1D
Entries 4
Mean 0.006111
Std Dev 0.617
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

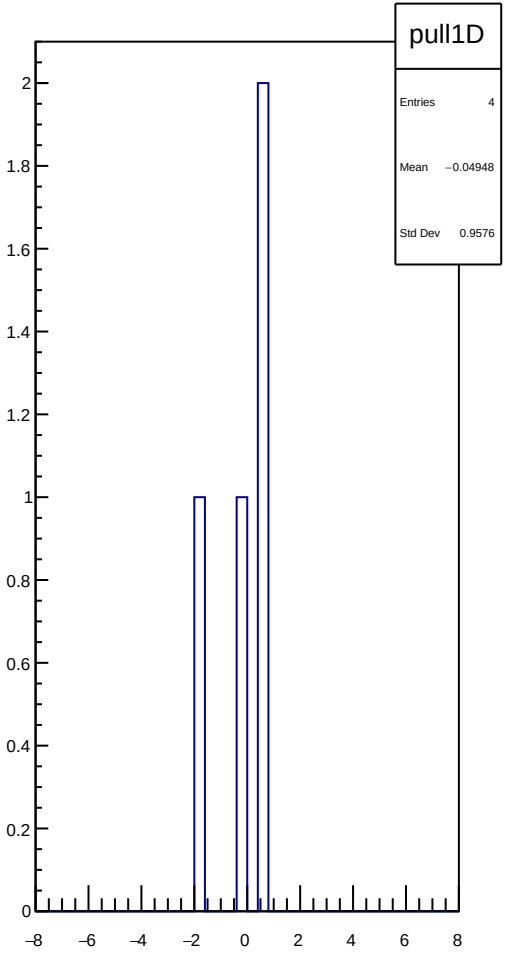

asym_at2_dd_correction_rms vs run
χ² / ndf 0.4577 / 3
p0 1.178e+04 ± 43.61
11900
11850
11800
11750
11700
11650
6106. 0
6106. 1
6106. 2
6106. 3

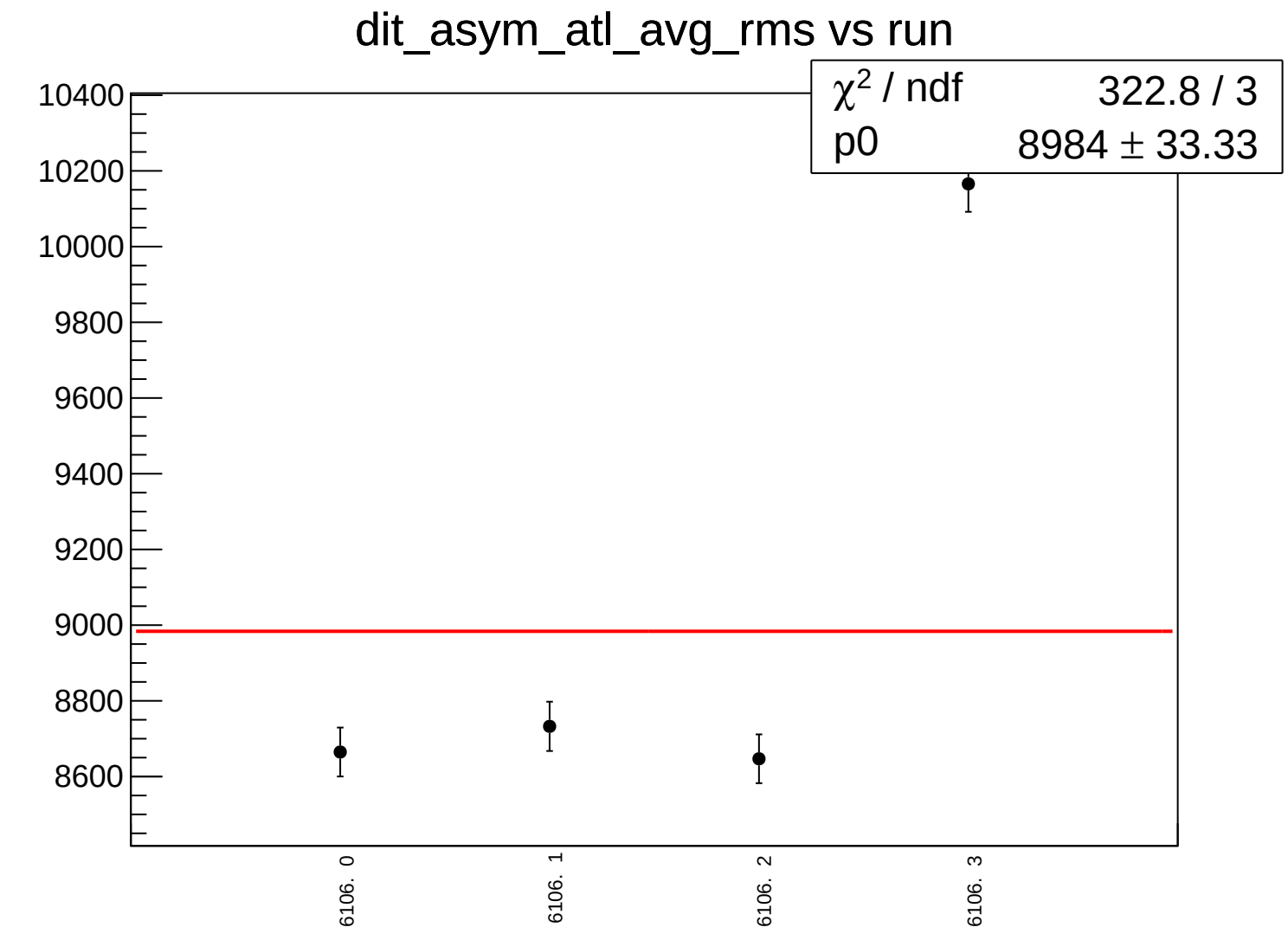

asym_at2_dd_mean vs run
×10^3
χ² / ndf 1.056 / 3
p0 5929 ± 3.747e+04
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −34.51
Std Dev 36.81
0.8
0.6
0.4
0.2
0
−0.2
−0.4

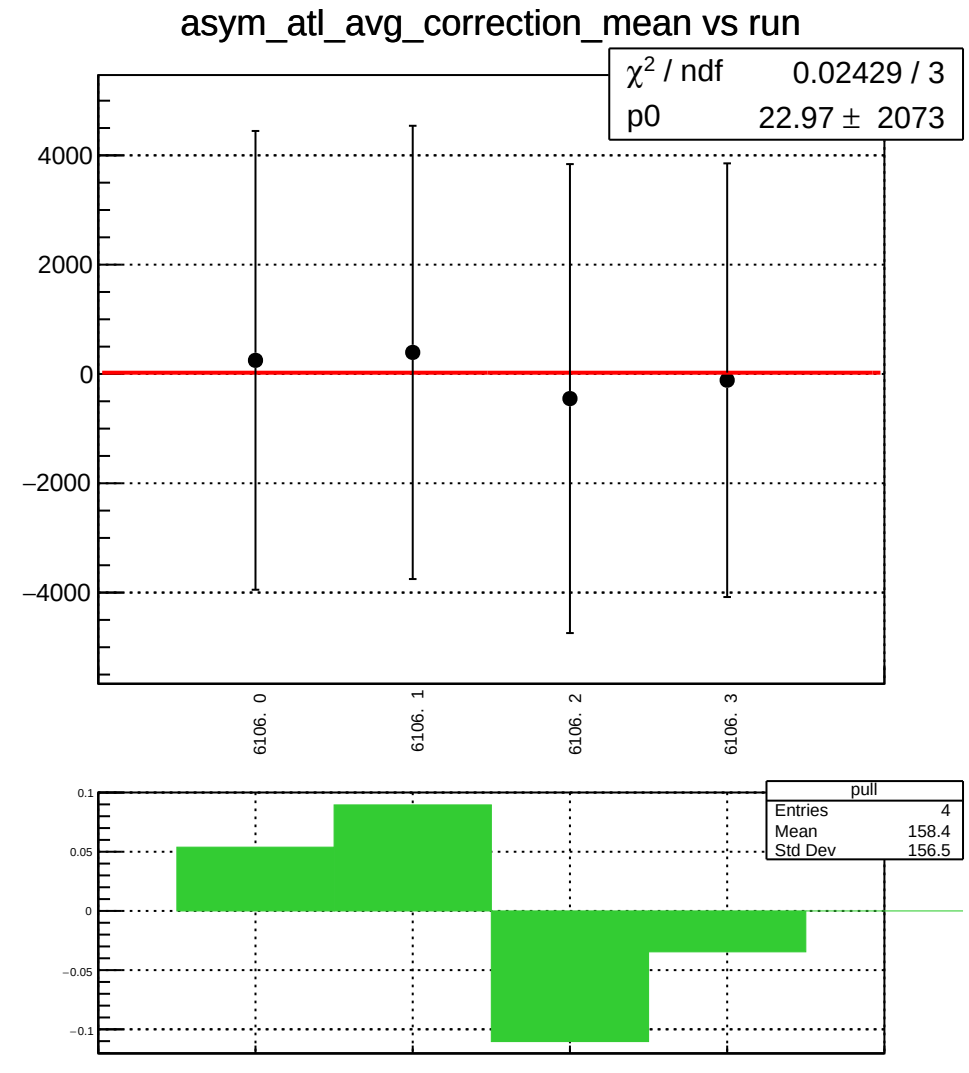

pull1D
Entries 4
Mean −0.01155
Std Dev 0.5138
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

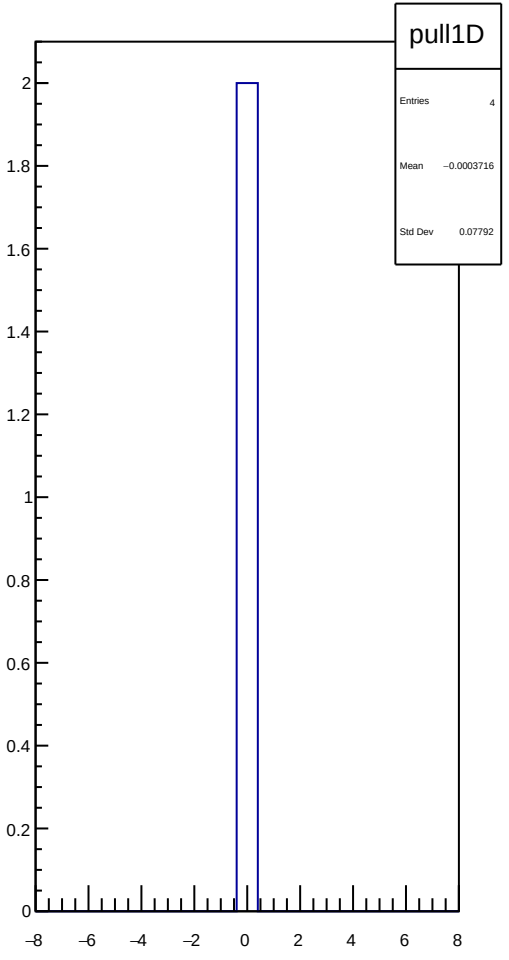

asym_at2_dd_rms vs run
χ² / ndf 12.93 / 3
p0 7155 ± 26.49
7350
7300
7250
7200
7150
7100
7050
7000
6106. 0
6106. 1
6106. 2
6106. 3

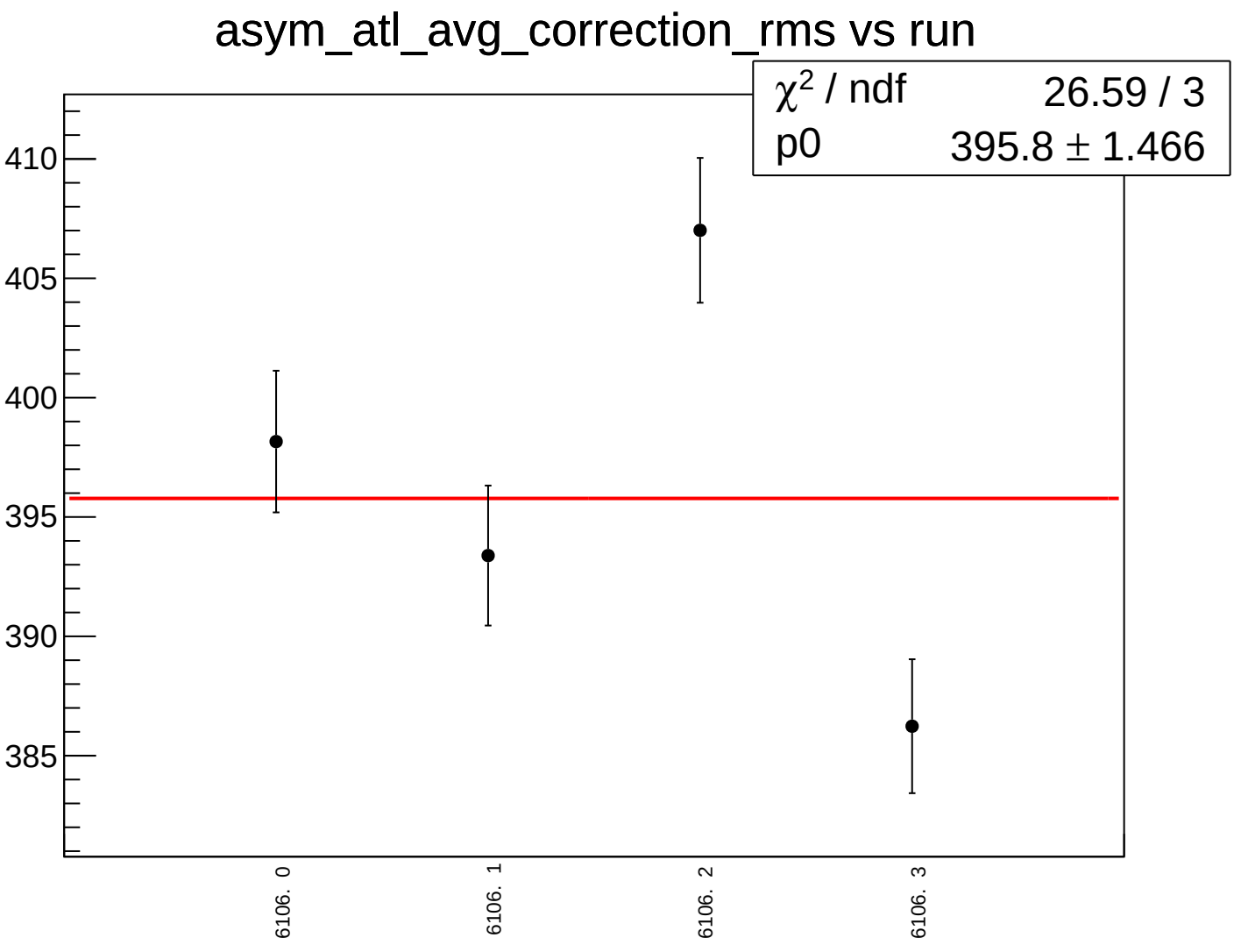

dit_asym_atl_avg_mean vs run
×10^3
χ² / ndf 3.678 / 3
p0 6463 ± 4.714e+04
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 21.46
Std Dev 19.21
0.5
0
−0.5
−1
−1.5

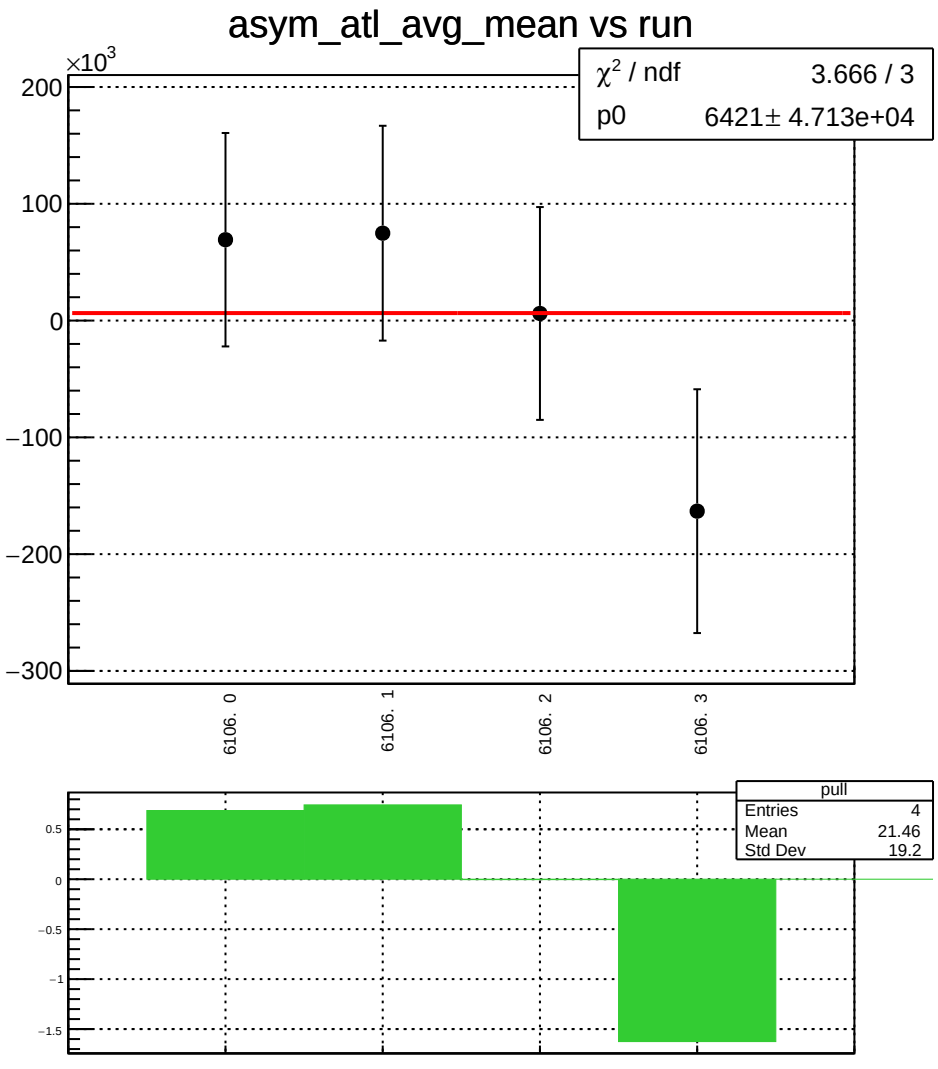

pull1D
Entries 4
Mean −0.04948
Std Dev 0.9576
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

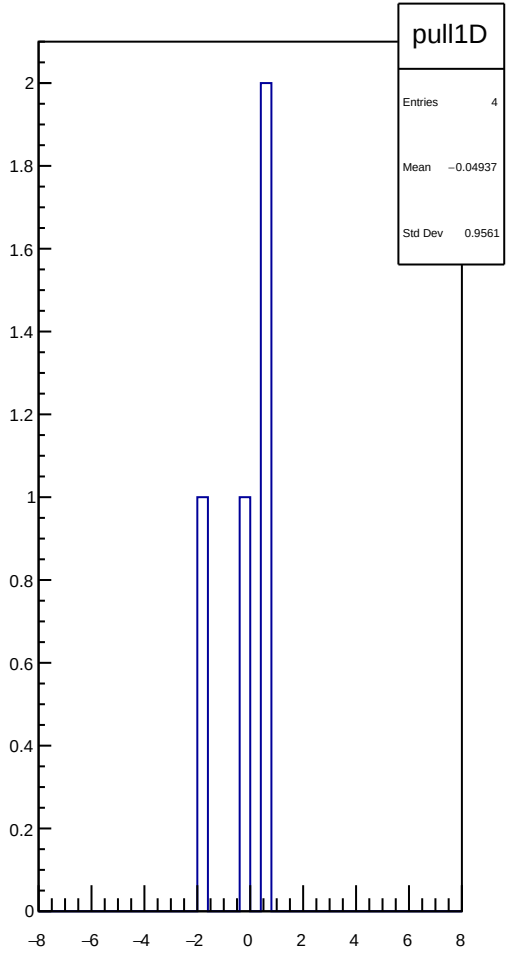

dit_asym_atl_avg_rms vs run
χ² / ndf 322.8 / 3
p0 8984 ± 33.33
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
6106. 0
6106. 1
6106. 2
6106. 3

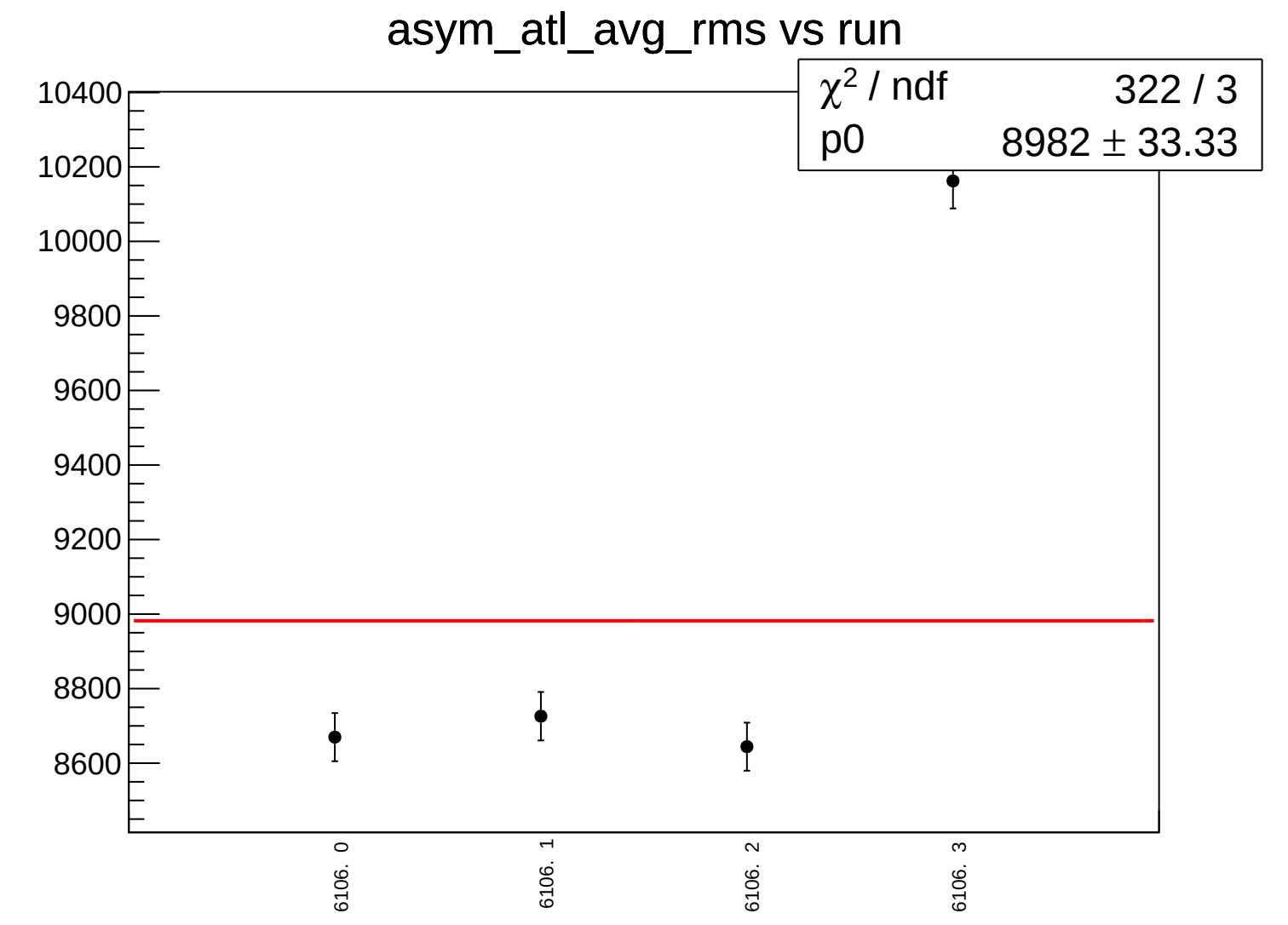

asym_atl_avg_correction_mean vs run
χ² / ndf 0.02429 / 3
p0 22.97 ± 2073
4000
2000
0
−2000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 158.4
Std Dev 156.5
0.1
0.05
0
−0.05
−0.1

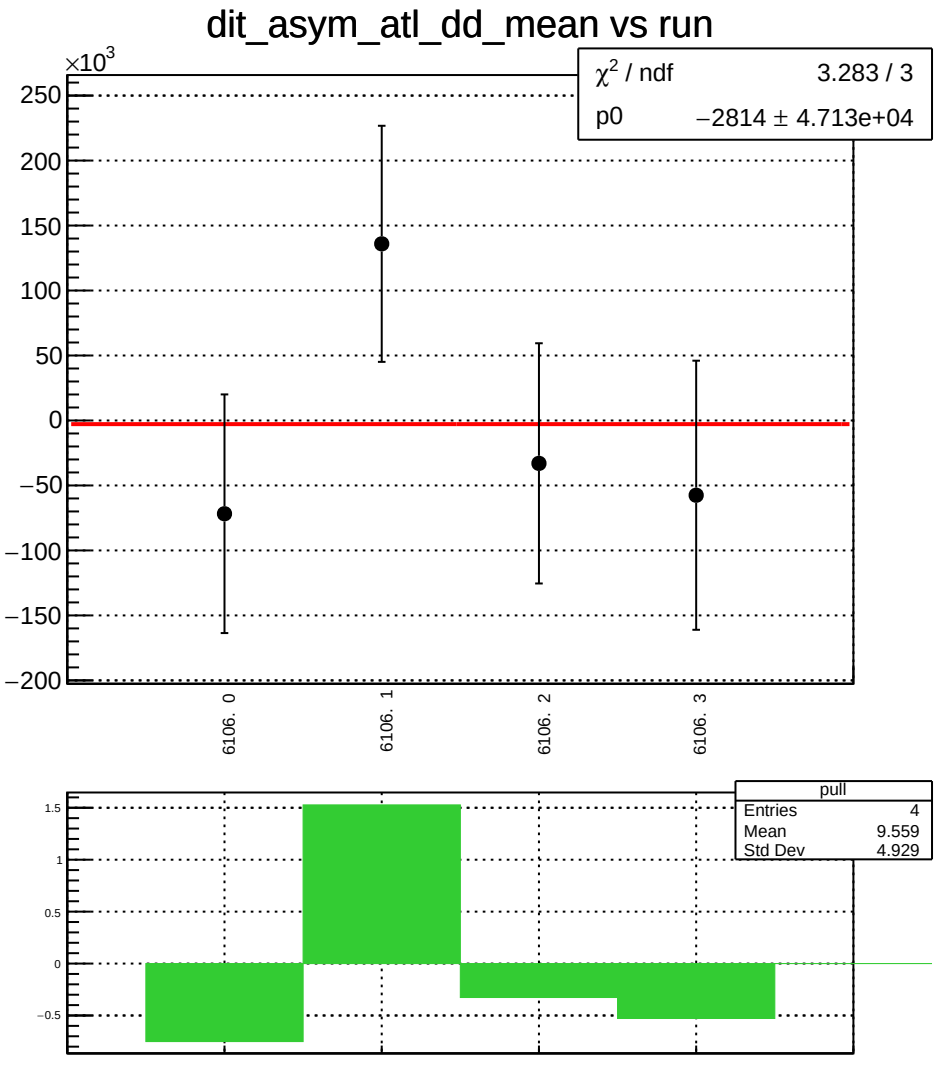

pull1D
Entries 4
Mean −0.0003716
Std Dev 0.07792
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

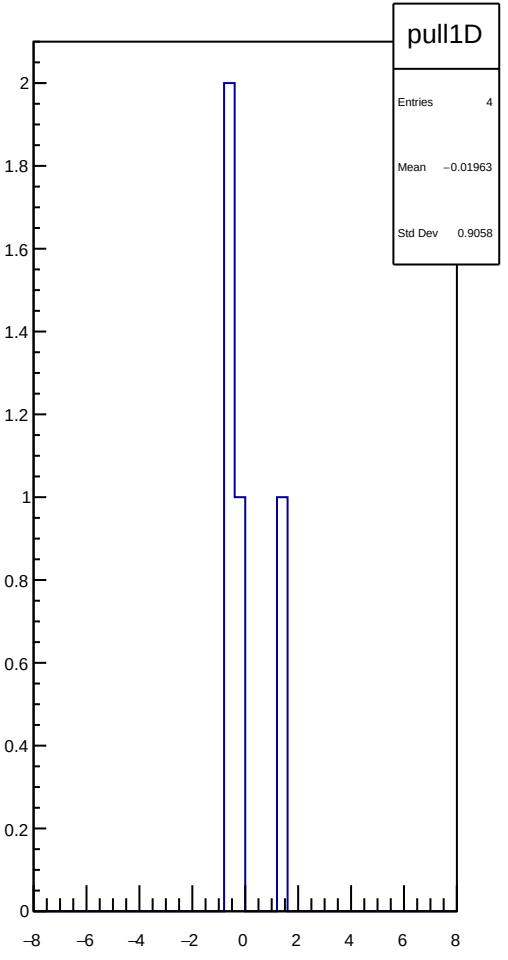

asym_atl_avg_correction_rms vs run
χ² / ndf 26.59 / 3
p0 395.8 ± 1.466
410
405
400
395
390
385
6106. 0
6106. 1
6106. 2
6106. 3

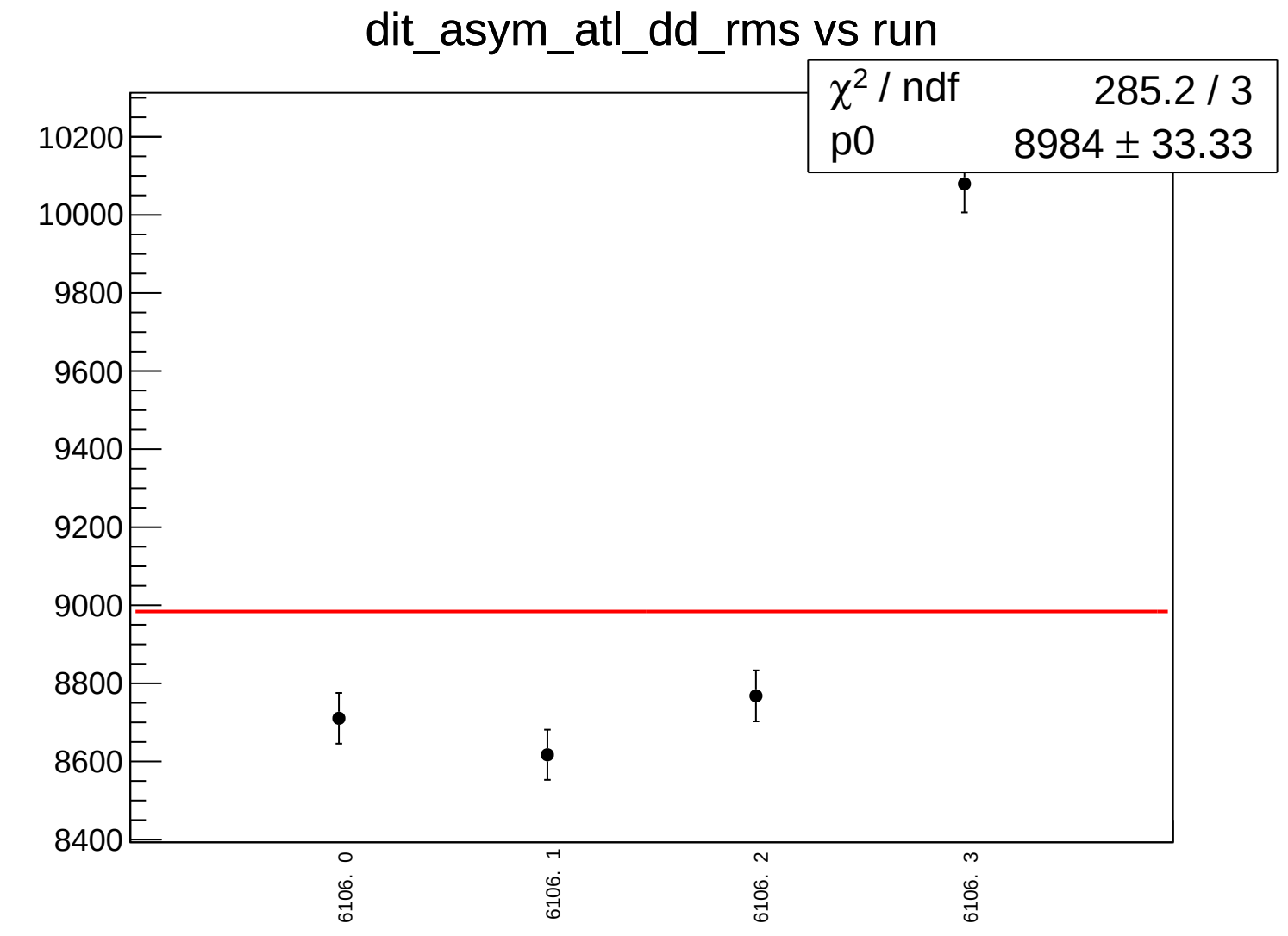

asym_atl_avg_mean vs run
×10^3
χ² / ndf 3.666 / 3
p0 6421± 4.713e+04
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 21.46
Std Dev 19.2
0.5
0
−0.5
−1
−1.5

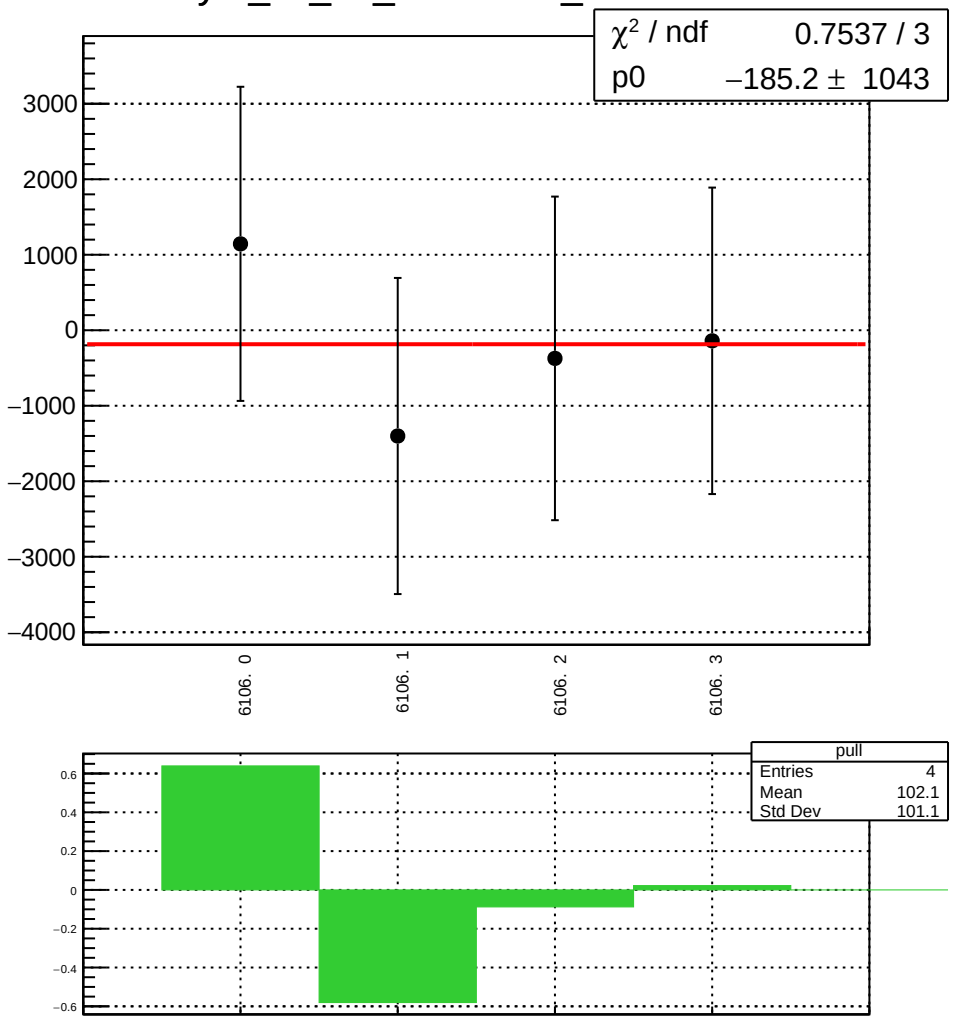

pull1D
Entries 4
Mean −0.04937
Std Dev 0.9561
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

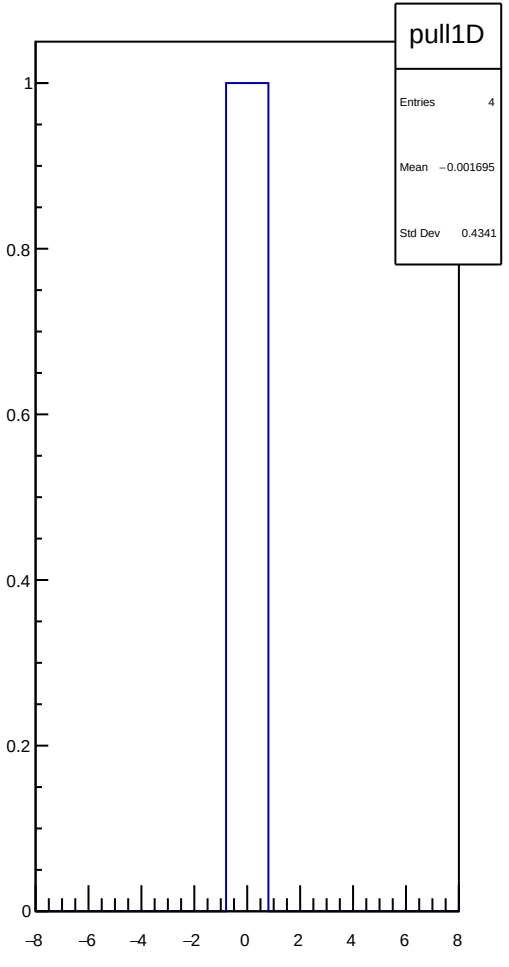

asym_atl_avg_rms vs run
χ² / ndf 322 / 3
p0 8982 ± 33.33
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
6106. 0
6106. 1
6106. 2
6106. 3

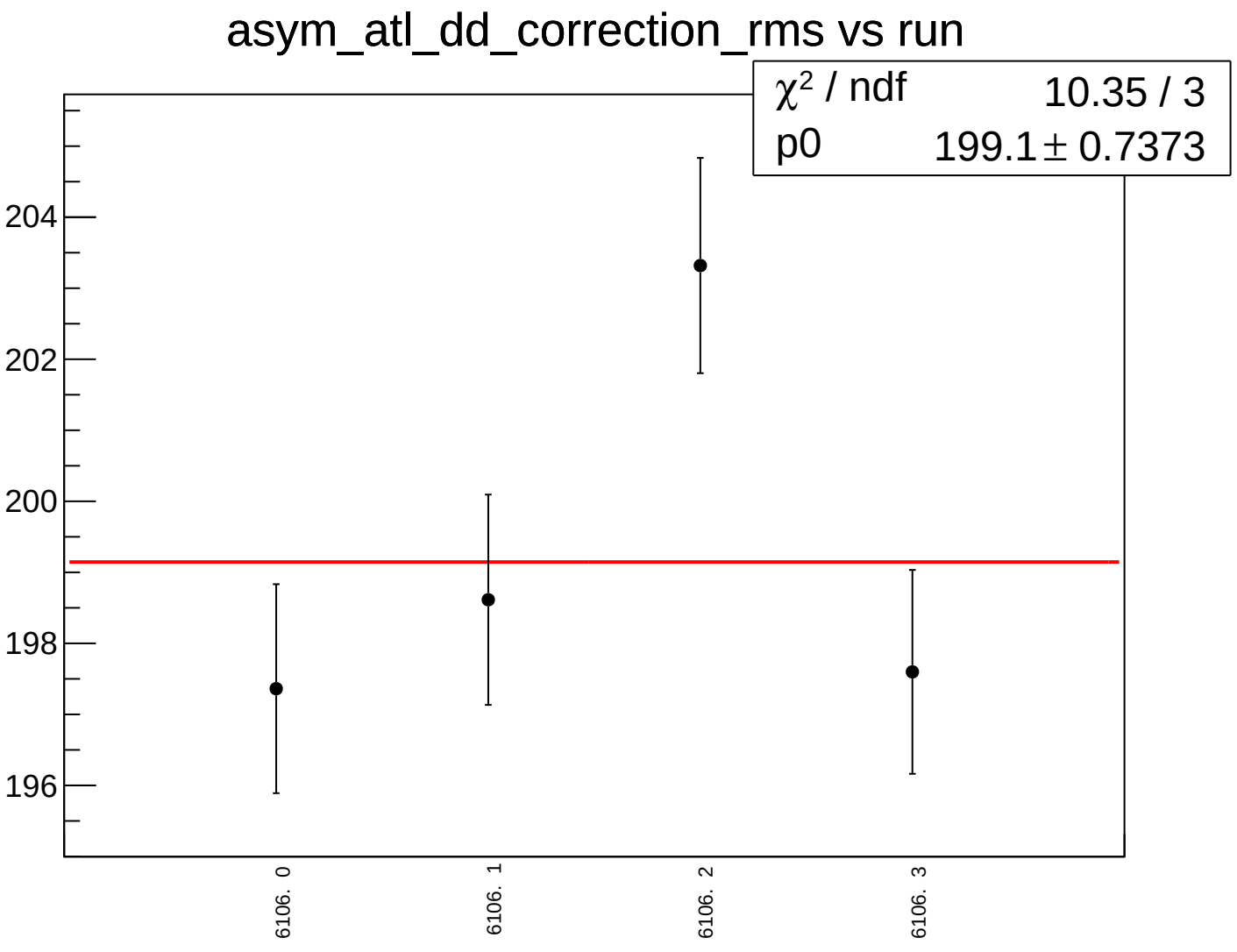

dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 3.283 / 3
p0 −2814 ± 4.713e+04
250
200
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 9.559
Std Dev 4.929
1.5
1
0.5
0
−0.5

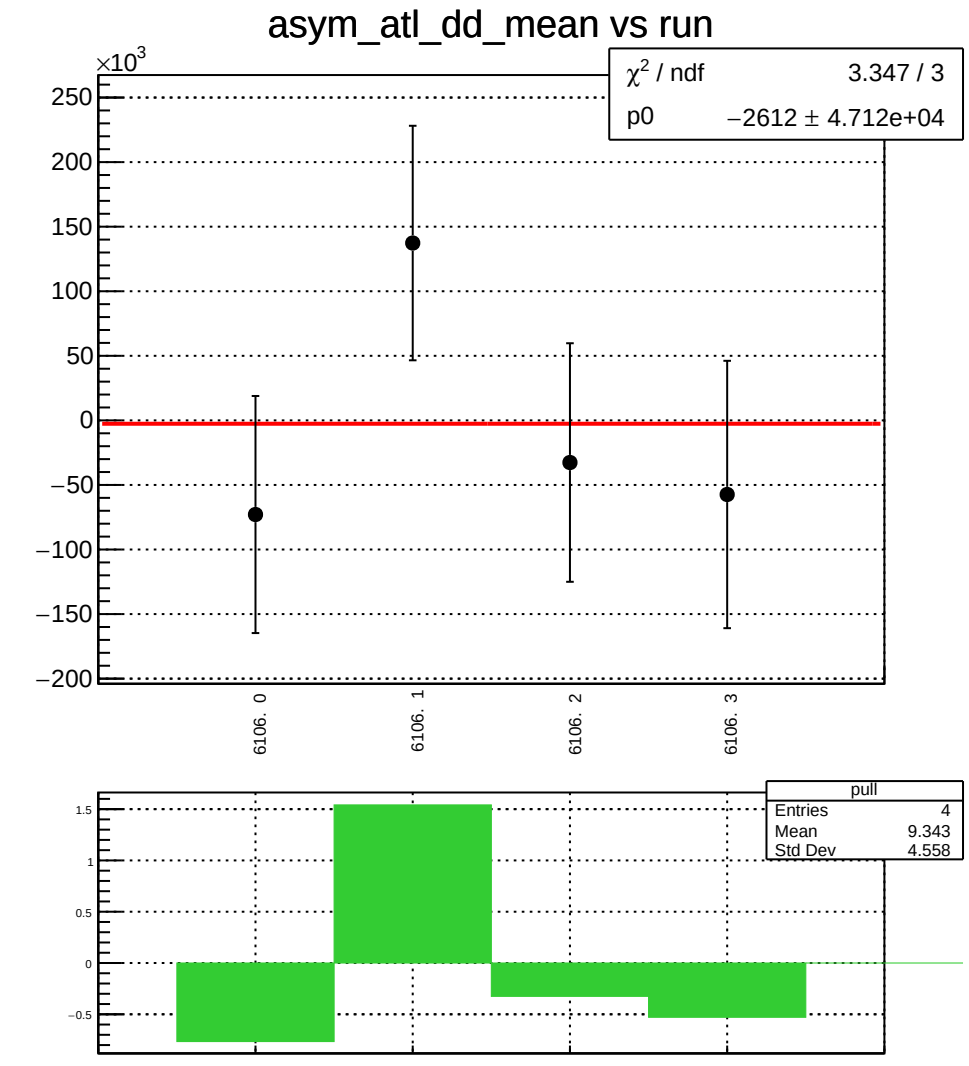

pull1D
Entries 4
Mean −0.01963
Std Dev 0.9058
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

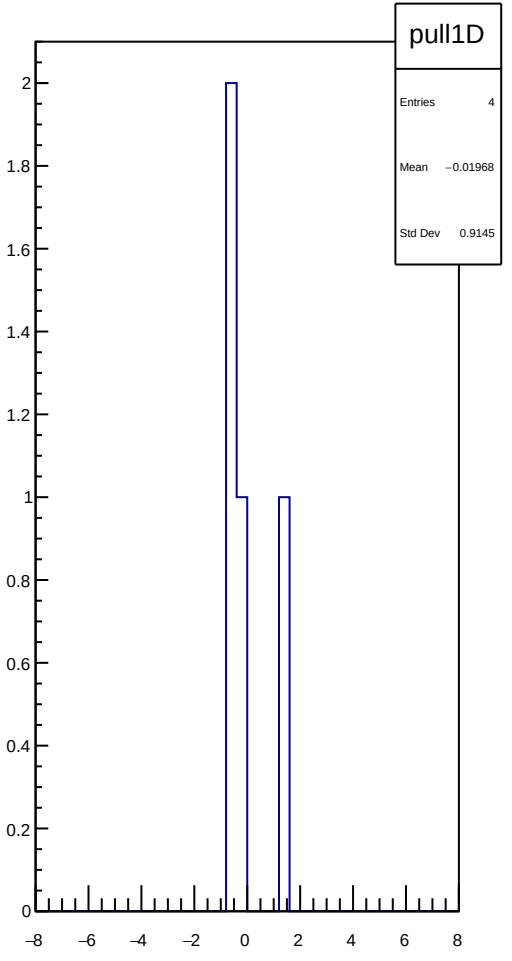

dit_asym_atl_dd_rms vs run
χ² / ndf 285.2 / 3
p0 8984 ± 33.33
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
6106. 0
6106. 1
6106. 2
6106. 3

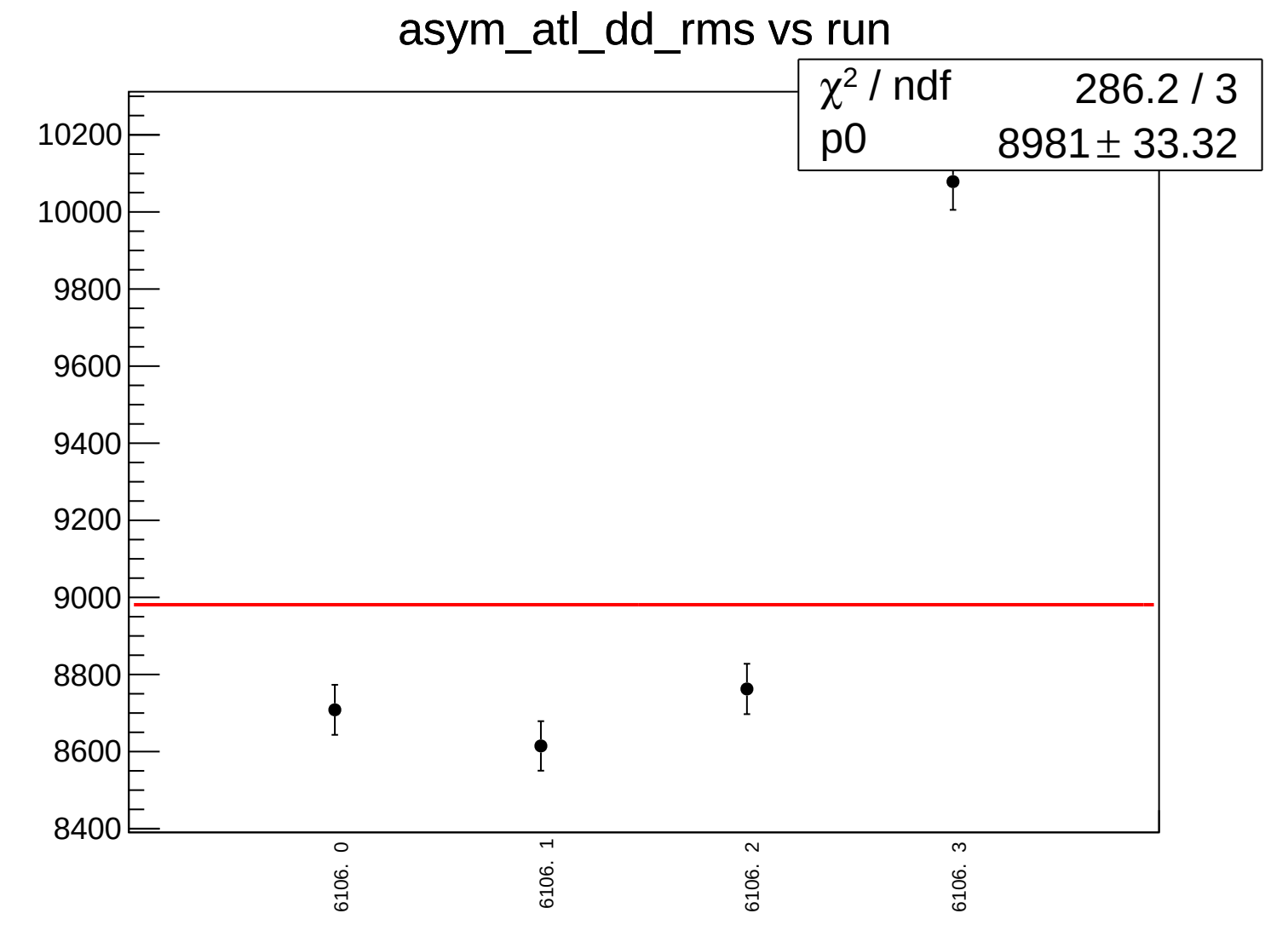

asym_atl_dd_correction_mean vs run
χ² / ndf 0.7537 / 3
p0 −185.2 ± 1043
3000
2000
1000
0
−1000
−2000
−3000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 102.1
Std Dev 101.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

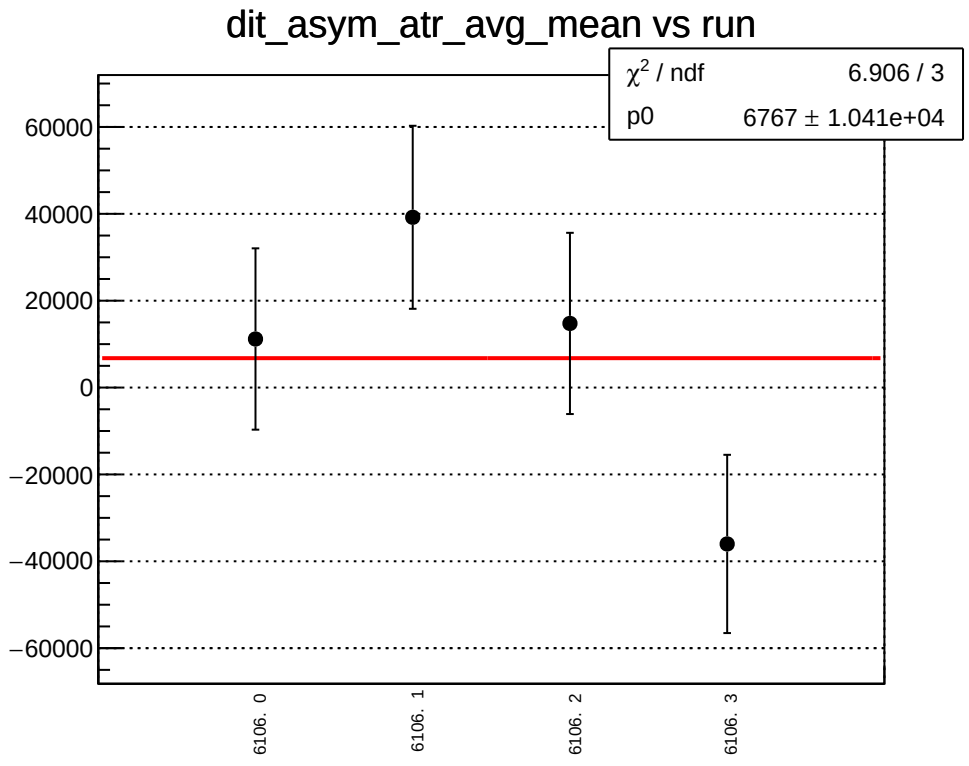

pull1D
Entries 4
Mean −0.001695
Std Dev 0.4341
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

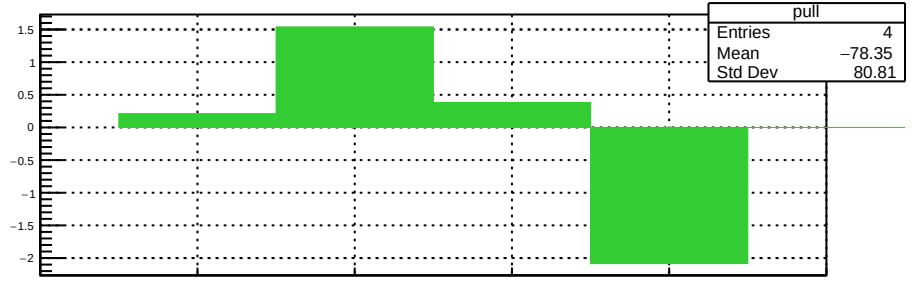

asym_atl_dd_correction_rms vs run
χ² / ndf 10.35 / 3
p0 199.1 ± 0.7373
204
202
200
198
196
6106. 0
6106. 1
6106. 2
6106. 3

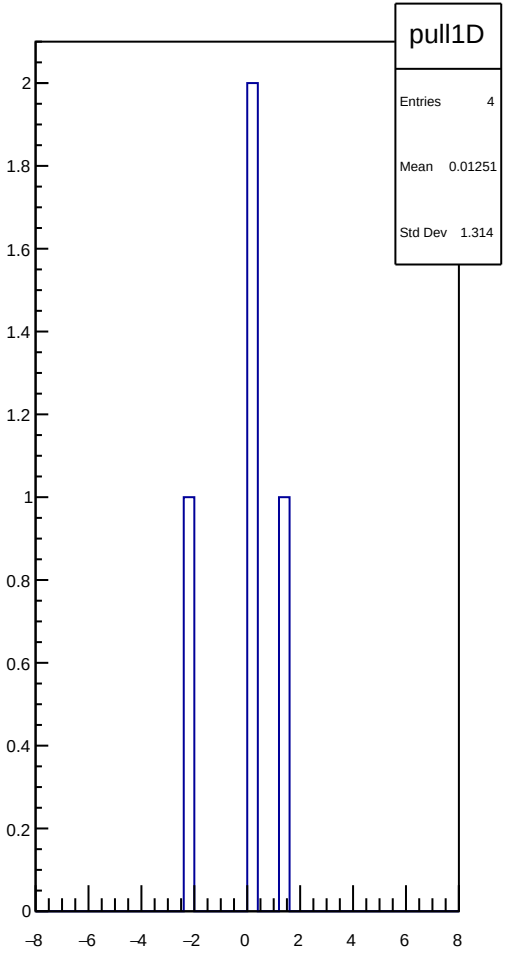

asym_atl_dd_mean vs run
×10^3
χ² / ndf 3.347 / 3
p0 −2612 ± 4.712e+04
250
200
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 9.343
Std Dev 4.558
1.5
1
0.5
0
−0.5

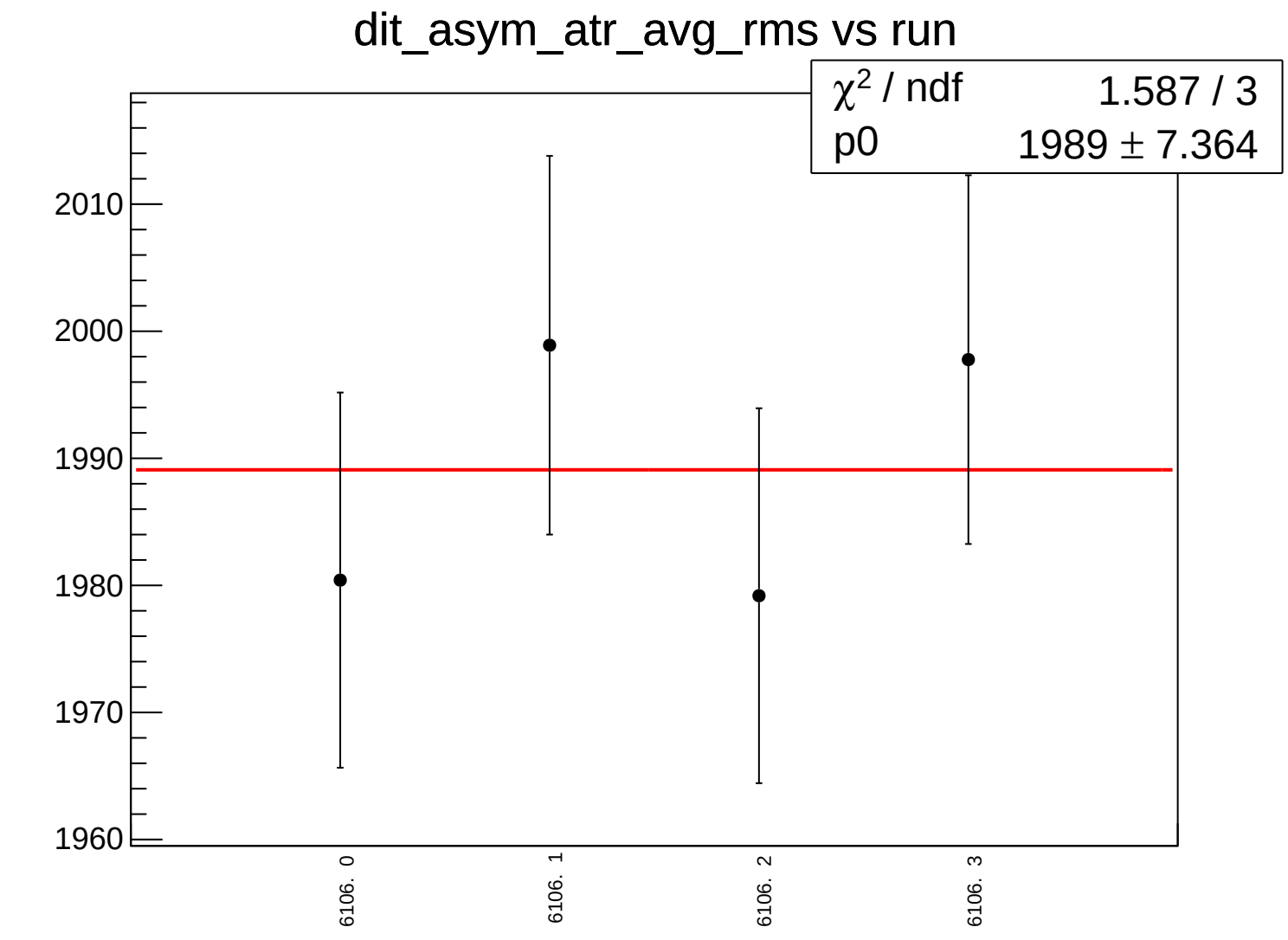

pull1D
Entries 4
Mean −0.01968
Std Dev 0.9145
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

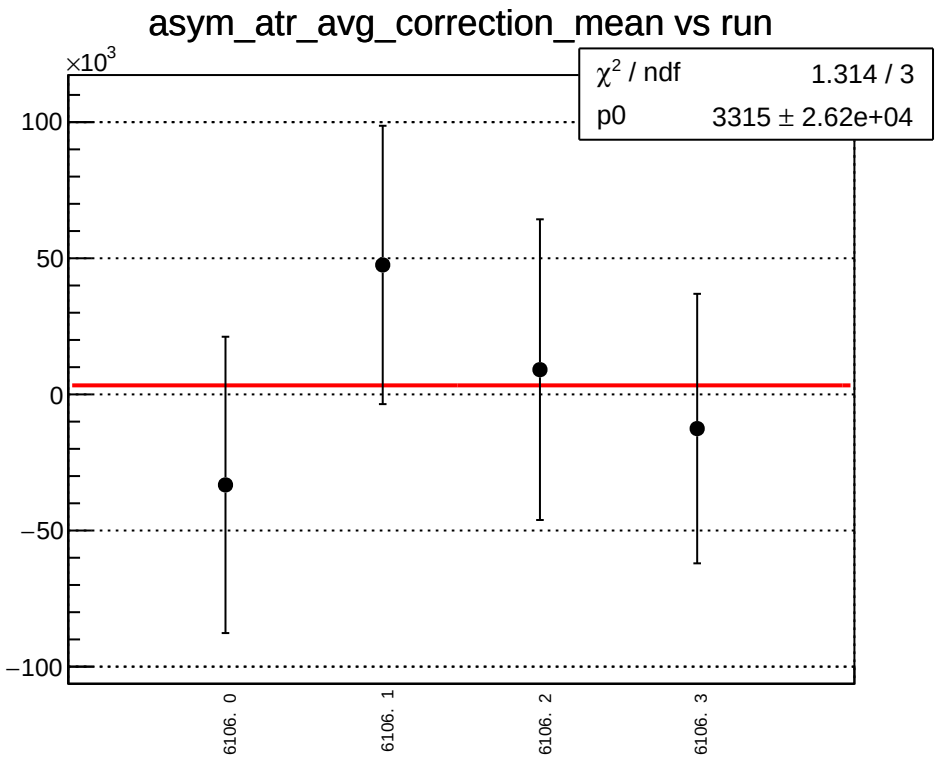

asym_atl_dd_rms vs run
χ² / ndf 286.2 / 3
p0 8981 ± 33.32
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
6106. 0
6106. 1
6106. 2
6106. 3

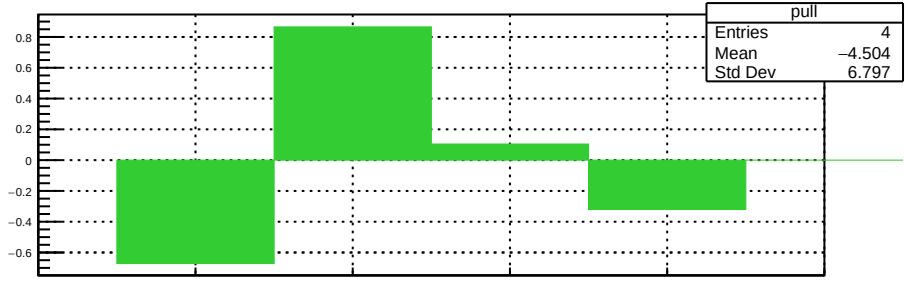

dit_asym_atr_avg_mean vs run
χ² / ndf 6.906 / 3
p0 6767 ± 1.041e+04
60000
40000
20000
0
−20000
−40000
−60000
6106. 0
6106. 1
6106. 2
6106. 3

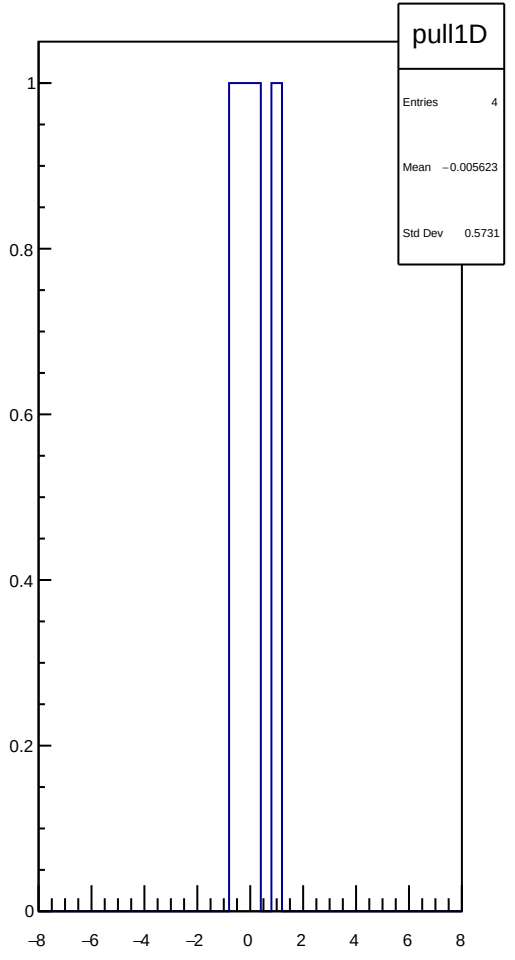

pull
Entries 4
Mean −78.35
Std Dev 80.81
1.5
1
0.5
0
−0.5
−1
−1.5
−2

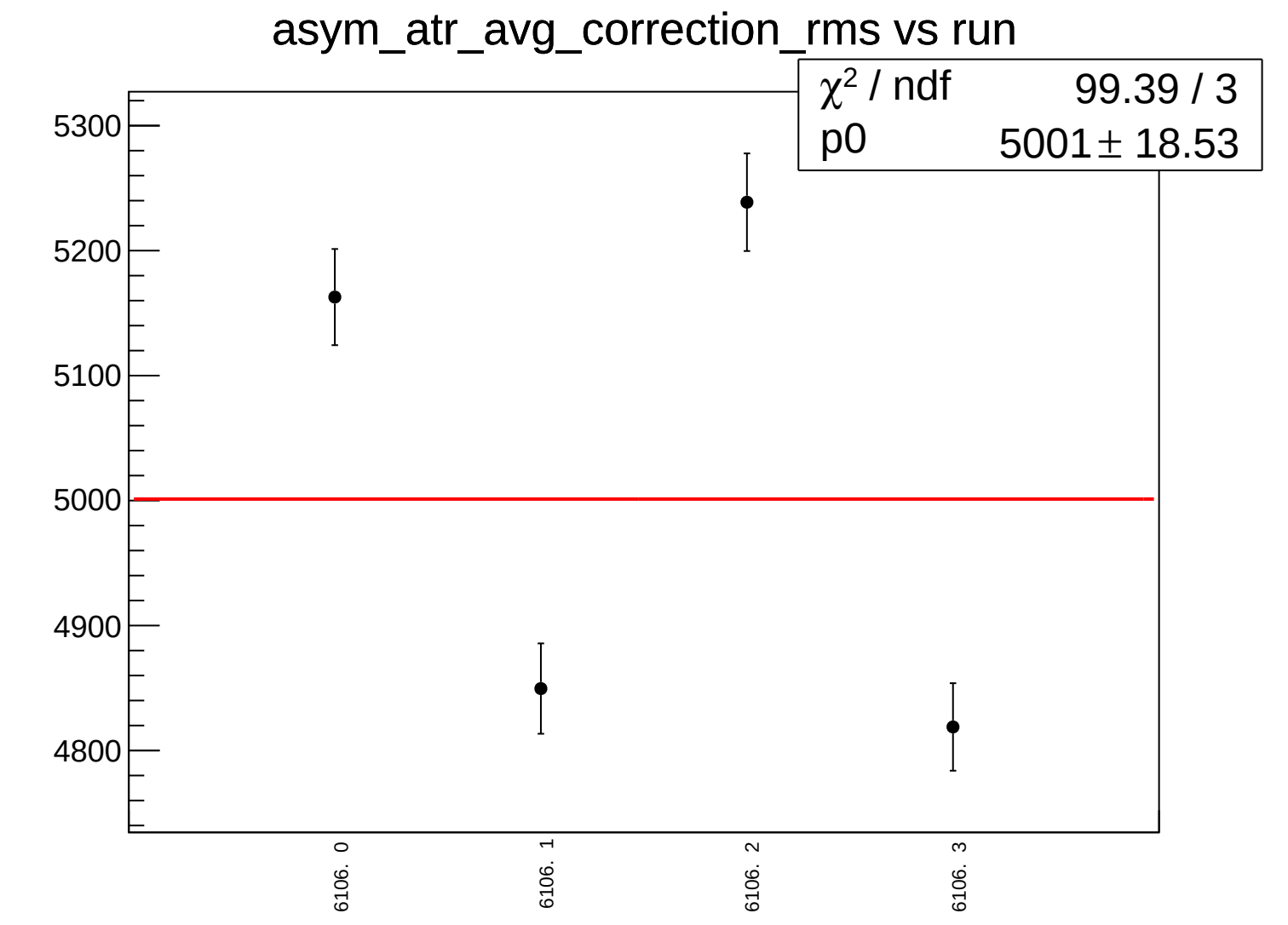

pull1D
Entries 4
Mean 0.01251
Std Dev 1.314
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

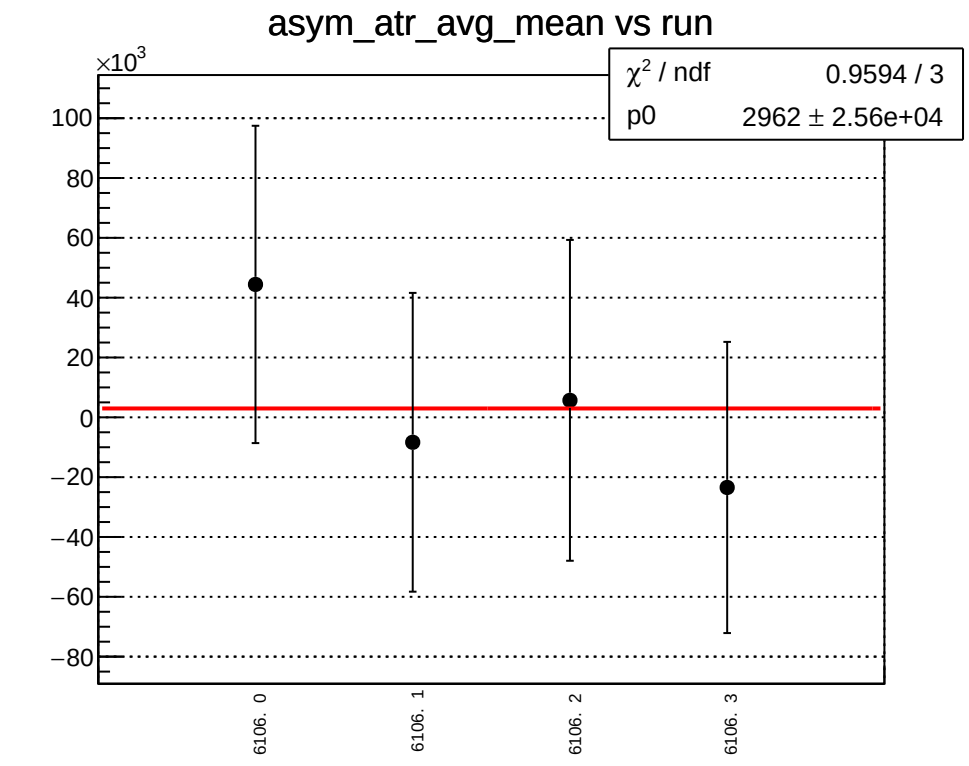

dit_asym_atr_avg_rms vs run
χ² / ndf 1.587 / 3
p0 1989 ± 7.364
2010
2000
1990
1980
1970
1960
6106. 0
6106. 1
6106. 2
6106. 3

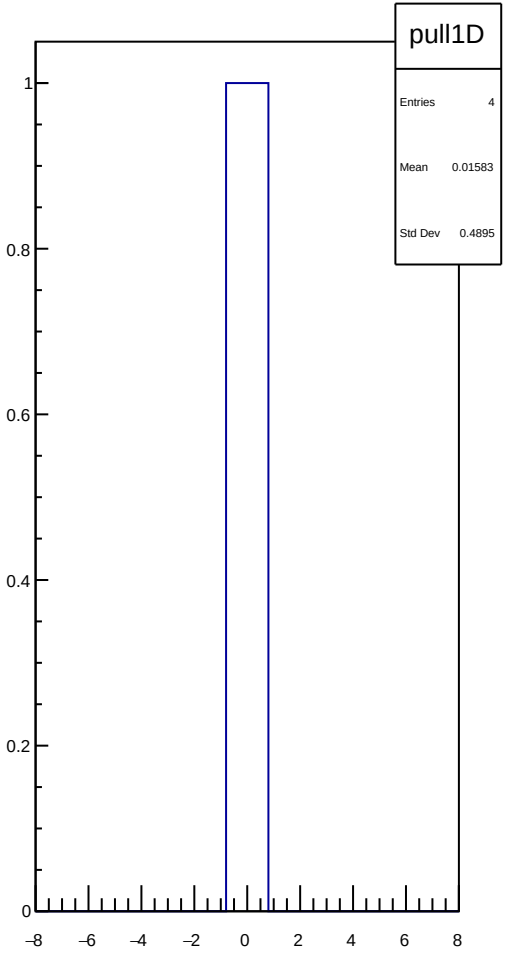

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 1.314 / 3
p0 3315 ± 2.62e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3

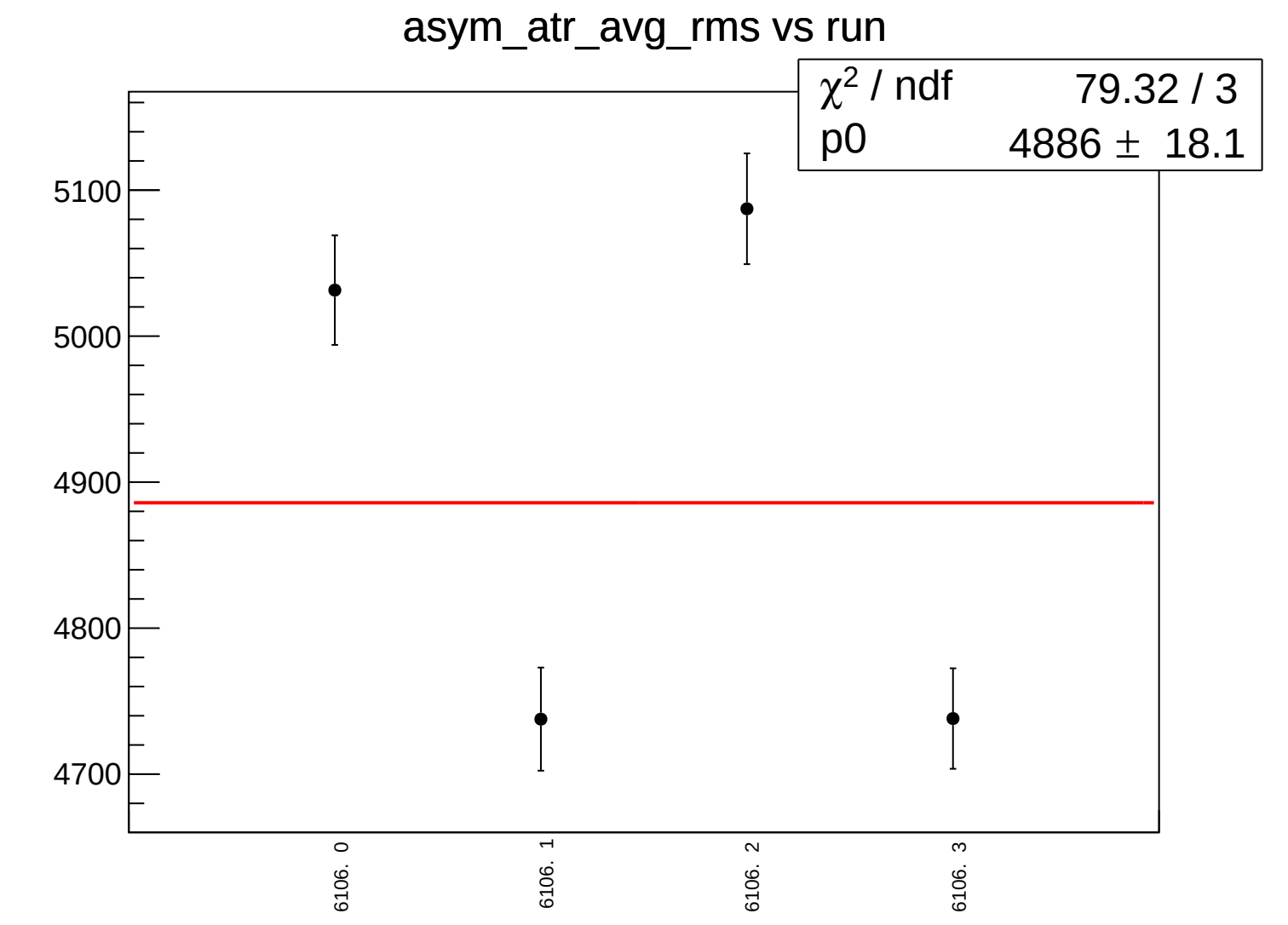

pull
Entries 4
Mean −4.504
Std Dev 6.797
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

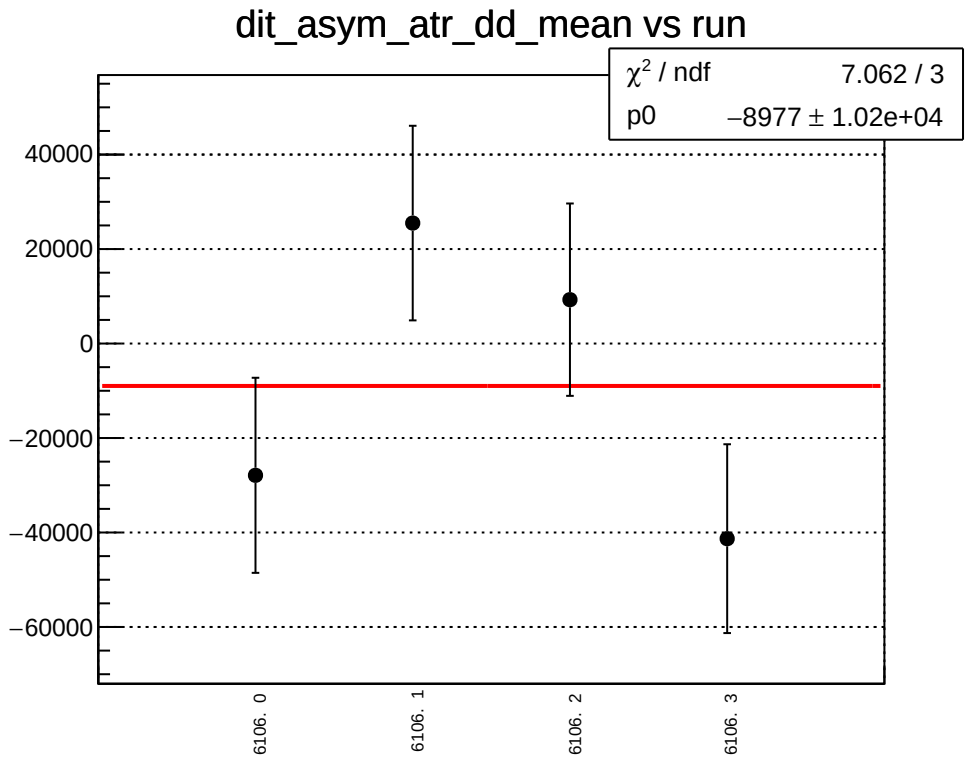

pull1D
Entries 4
Mean −0.005623
Std Dev 0.5731
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

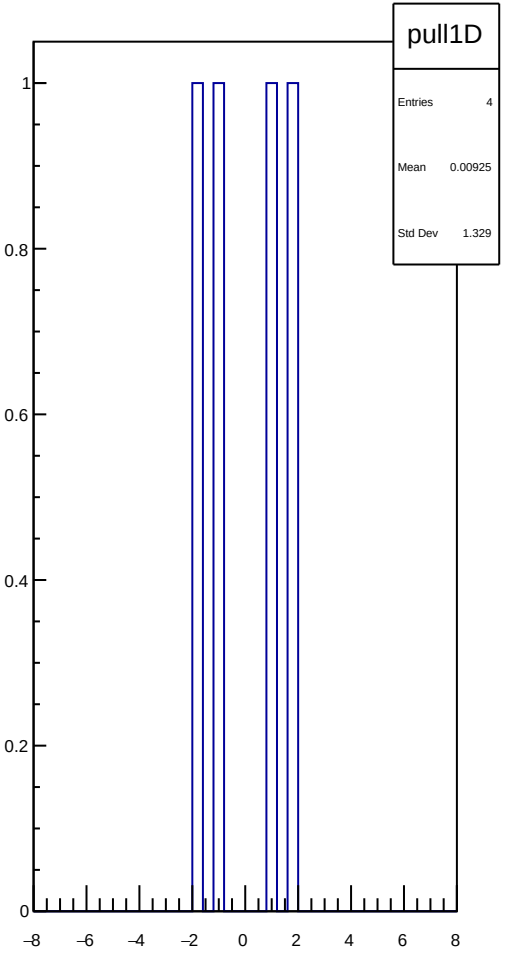

asym_atr_avg_correction_rms vs run
χ² / ndf 99.39 / 3
p0 5001 ± 18.53
5300
5200
5100
5000
4900
4800
6106. 0
6106. 1
6106. 2
6106. 3

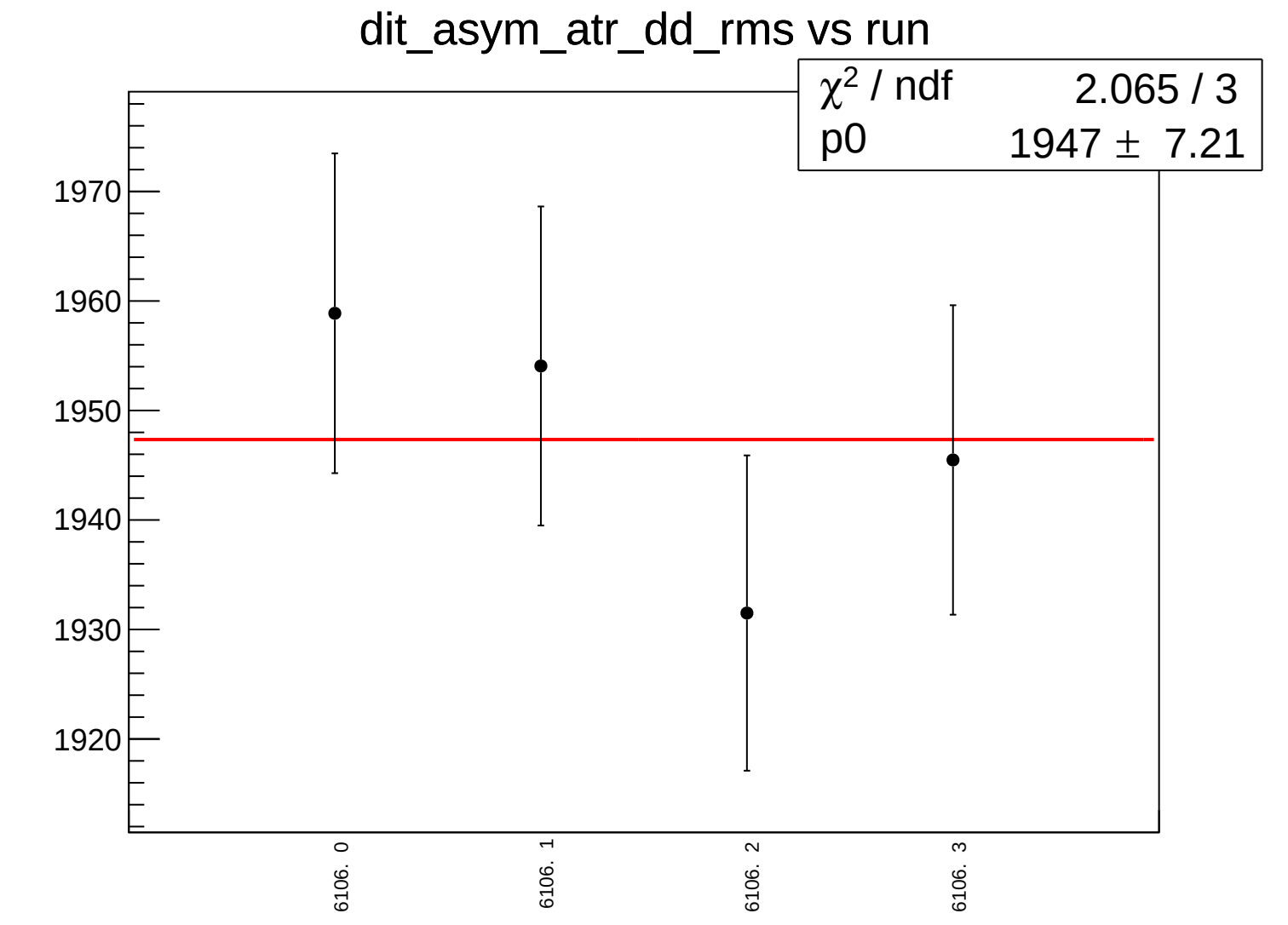

asym_atr_avg_mean vs run
×10^3
χ² / ndf 0.9594 / 3
p0 2962 ± 2.56e+04
100
80
60
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −27.19
Std Dev 29.06
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

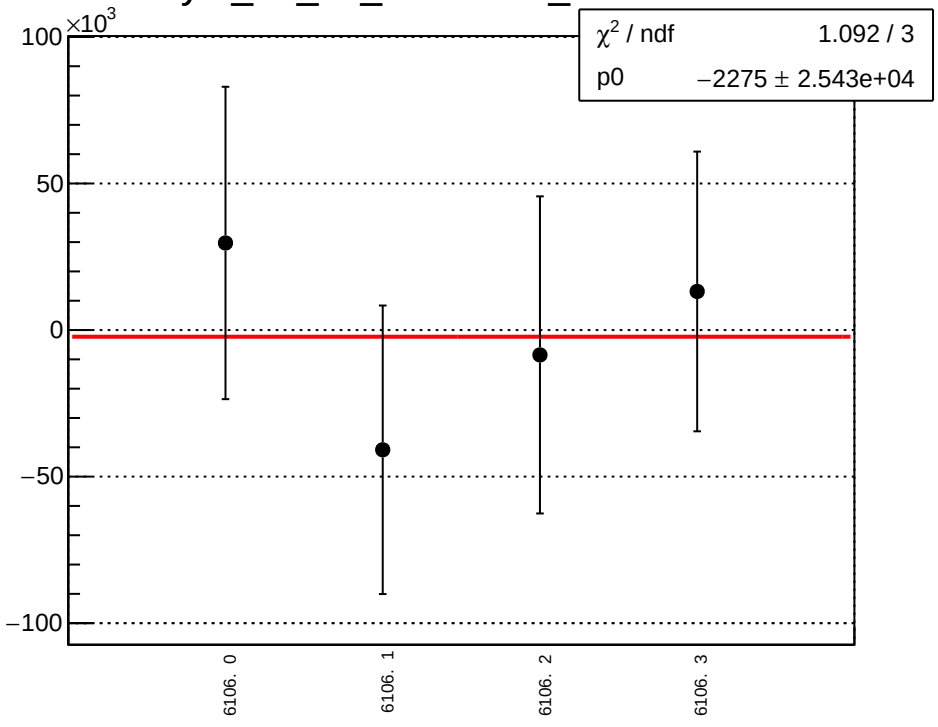

pull1D
Entries 4
Mean 0.01583
Std Dev 0.4895
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

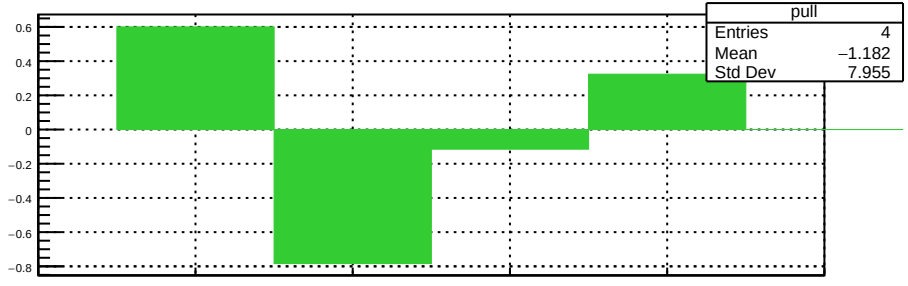

asym_atr_avg_rms vs run
χ² / ndf 79.32 / 3
p0 4886 ± 18.1
5100
5000
4900
4800
4700
6106. 0
6106. 1
6106. 2
6106. 3

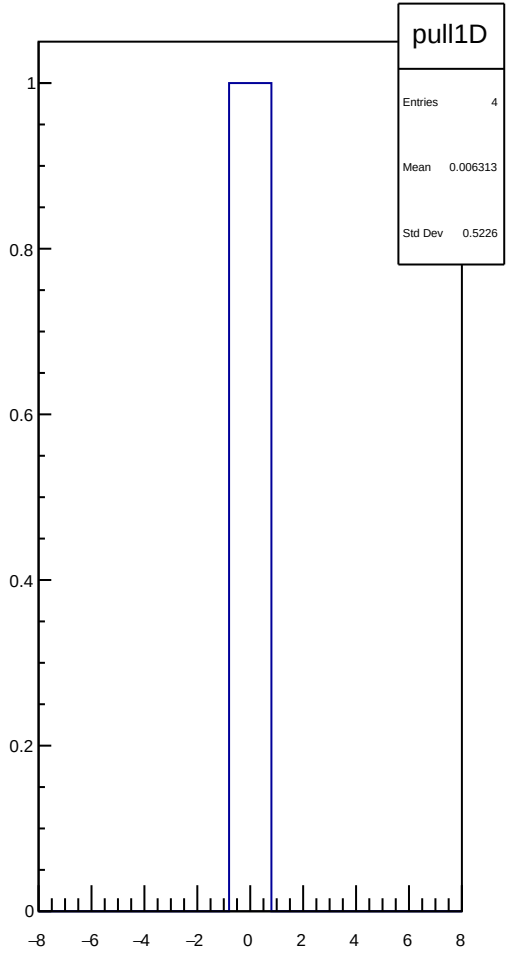

dit_asym_atr_dd_mean vs run
χ² / ndf 7.062 / 3
p0 −8977 ± 1.02e+04
40000
20000
0
−20000
−40000
−60000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −36.94
Std Dev 40.66
1.5
1
0.5
0
−0.5
−1
−1.5

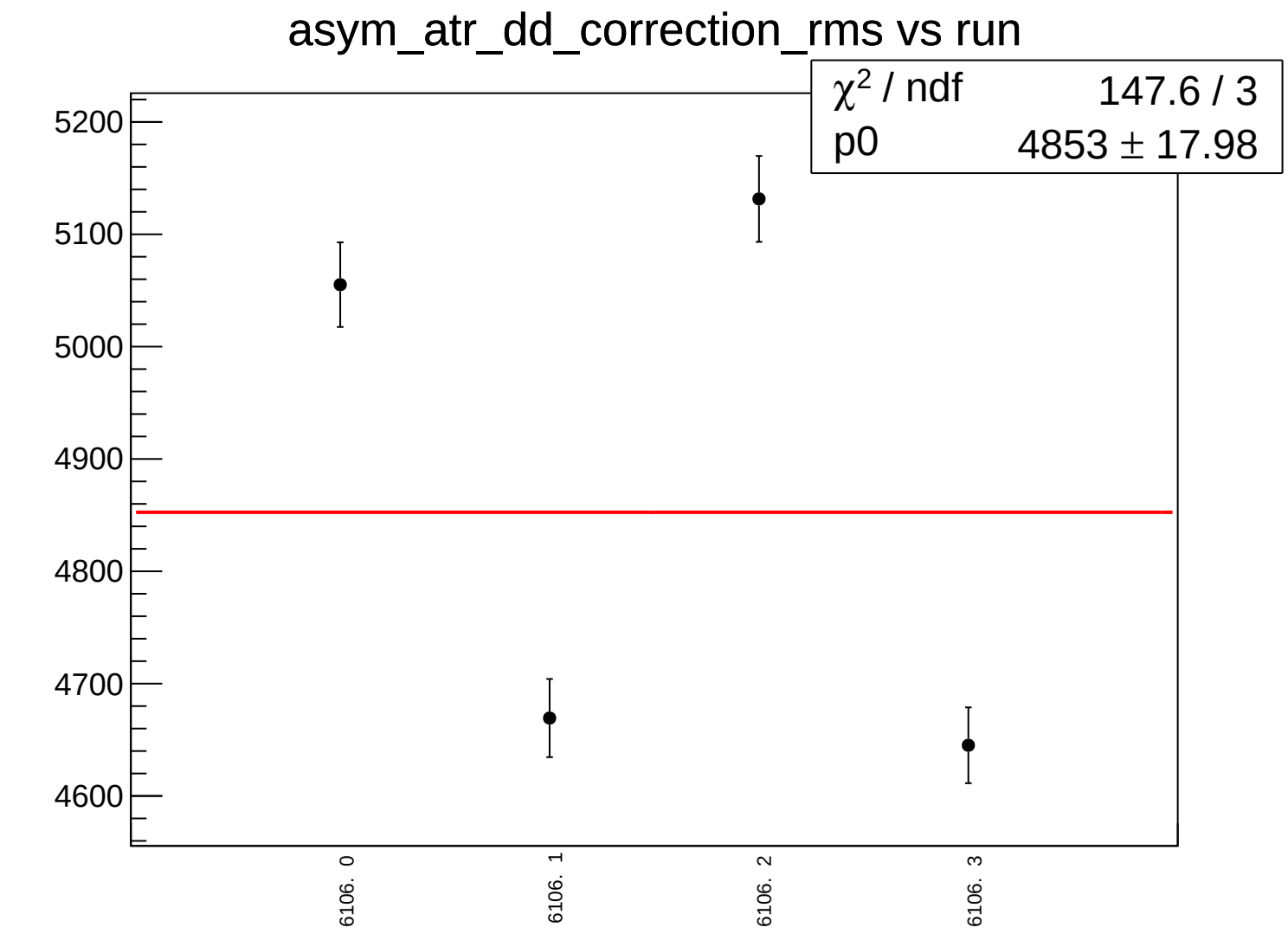

pull1D
Entries 4
Mean 0.00925
Std Dev 1.329
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

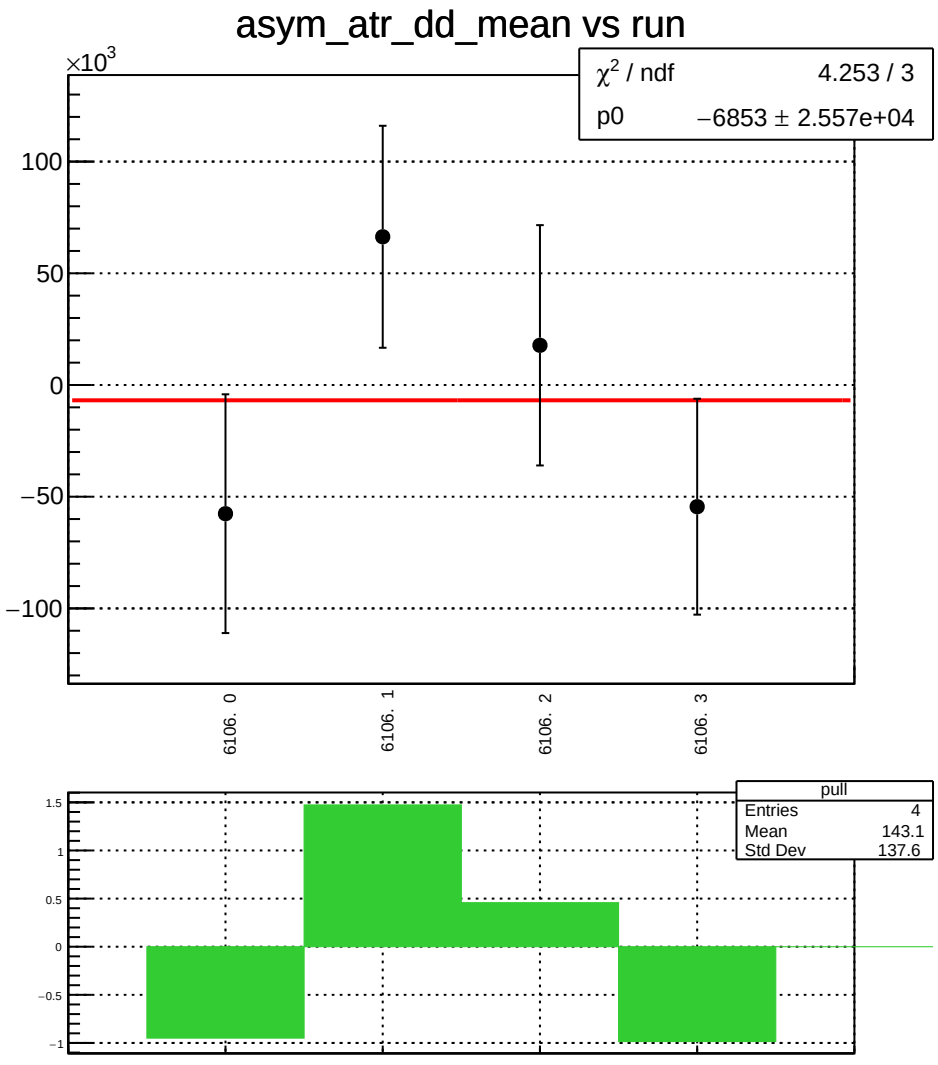

dit_asym_atr_dd_rms vs run
χ² / ndf 2.065 / 3
p0 1947 ± 7.21
1970
1960
1950
1940
1930
1920
6106. 0
6106. 1
6106. 2
6106. 3

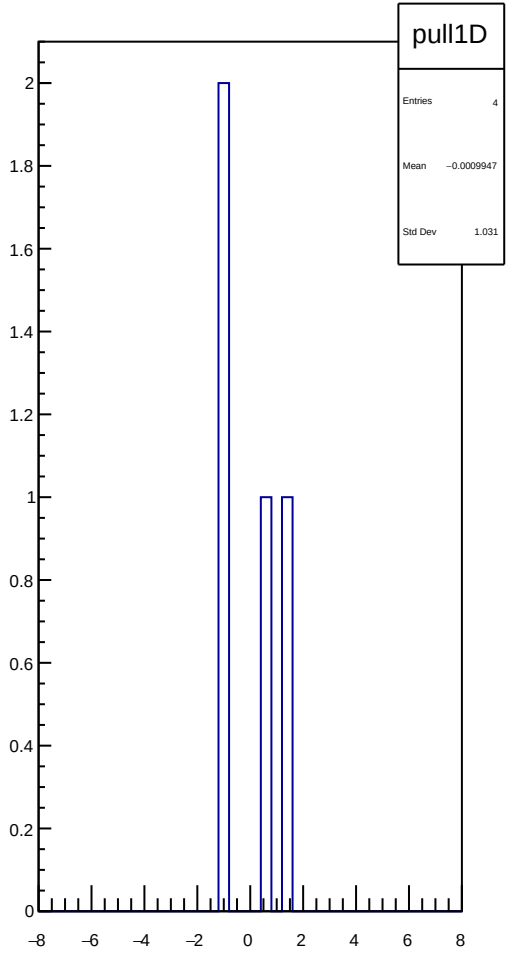

asym_atr_dd_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 1.092 / 3
p0 −2275 ± 2.543e+04
6106. 0
6106. 1
6106. 2
6106. 3

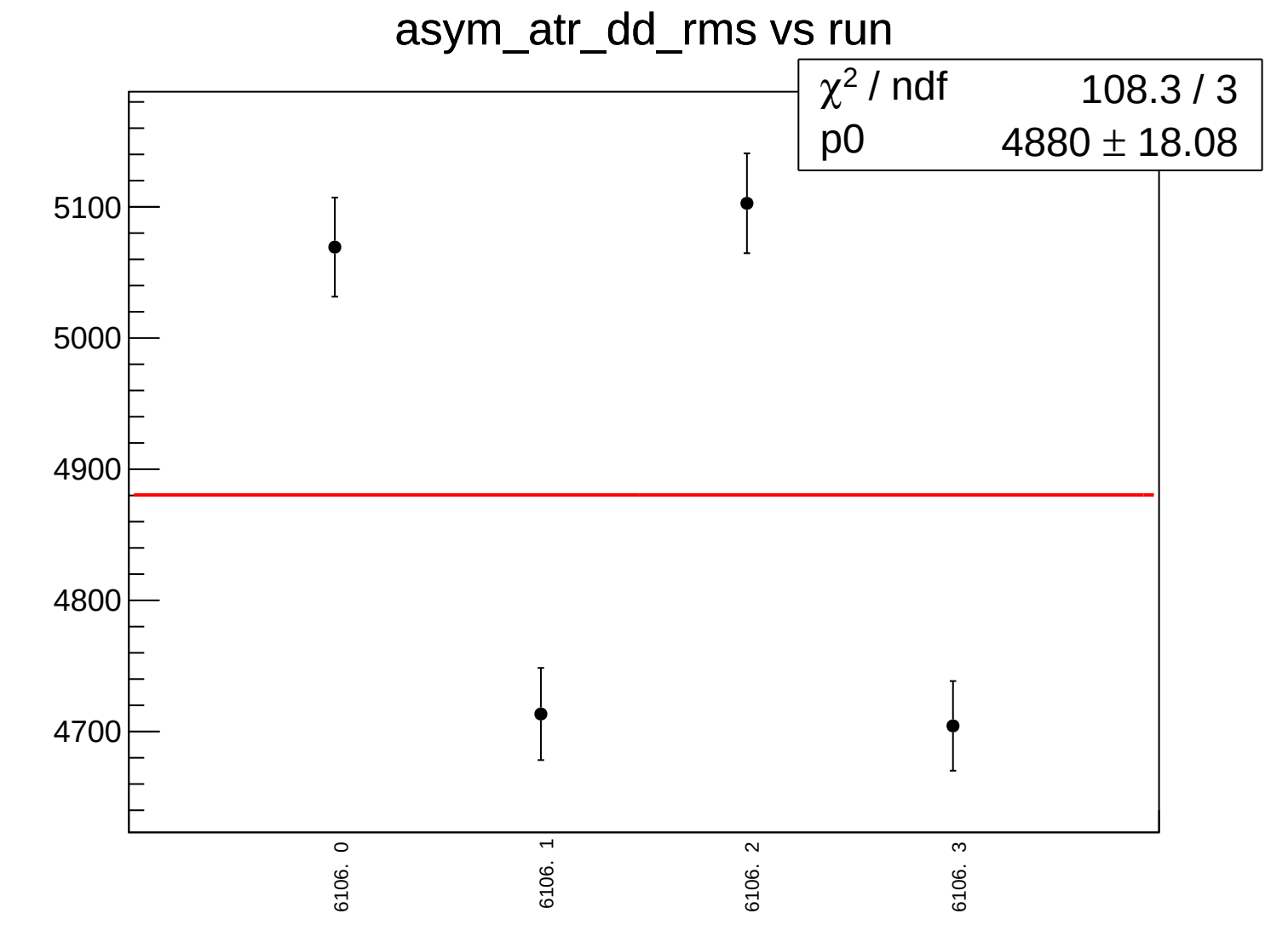

pull
Entries 4
Mean −1.182
Std Dev 7.955
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

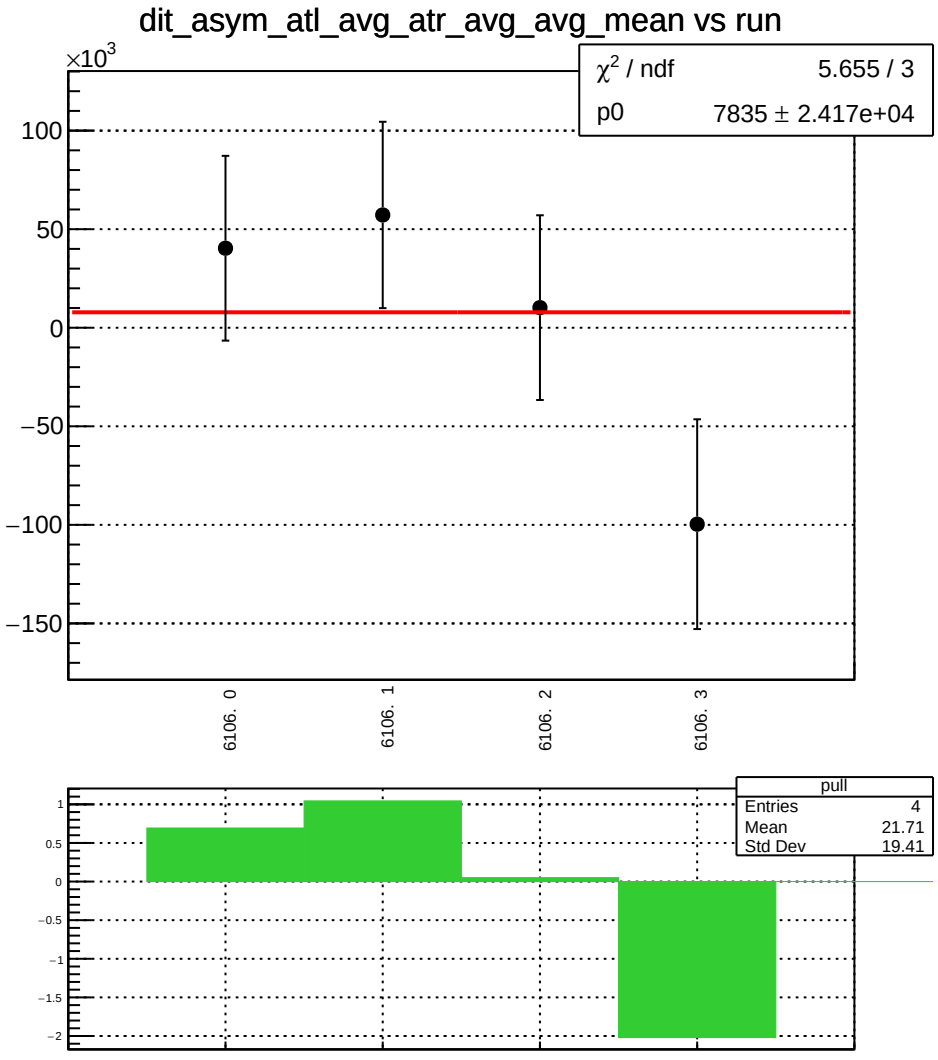

pull1D
Entries 4
Mean 0.006313
Std Dev 0.5226
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

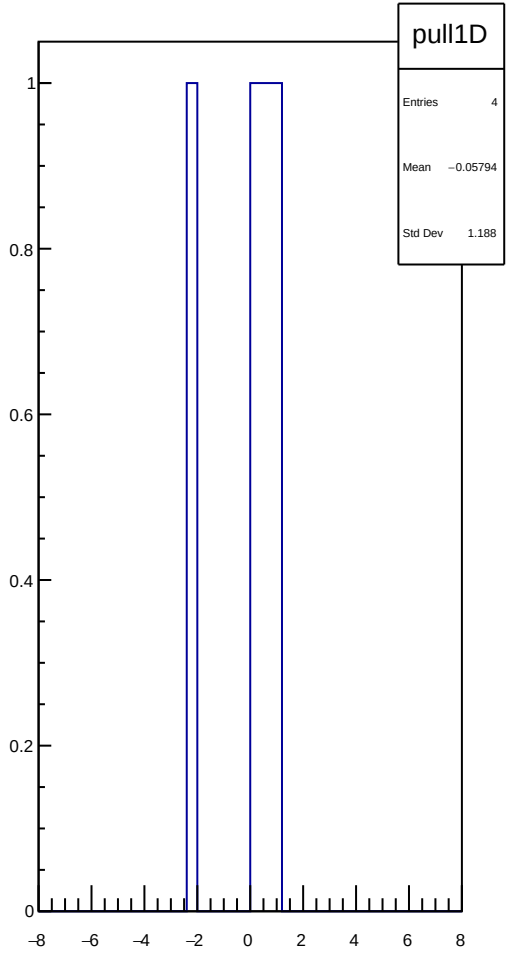

asym_atr_dd_correction_rms vs run
χ² / ndf 147.6 / 3
p0 4853 ± 17.98
5200
5100
5000
4900
4800
4700
4600
6106. 0
6106. 1
6106. 2
6106. 3

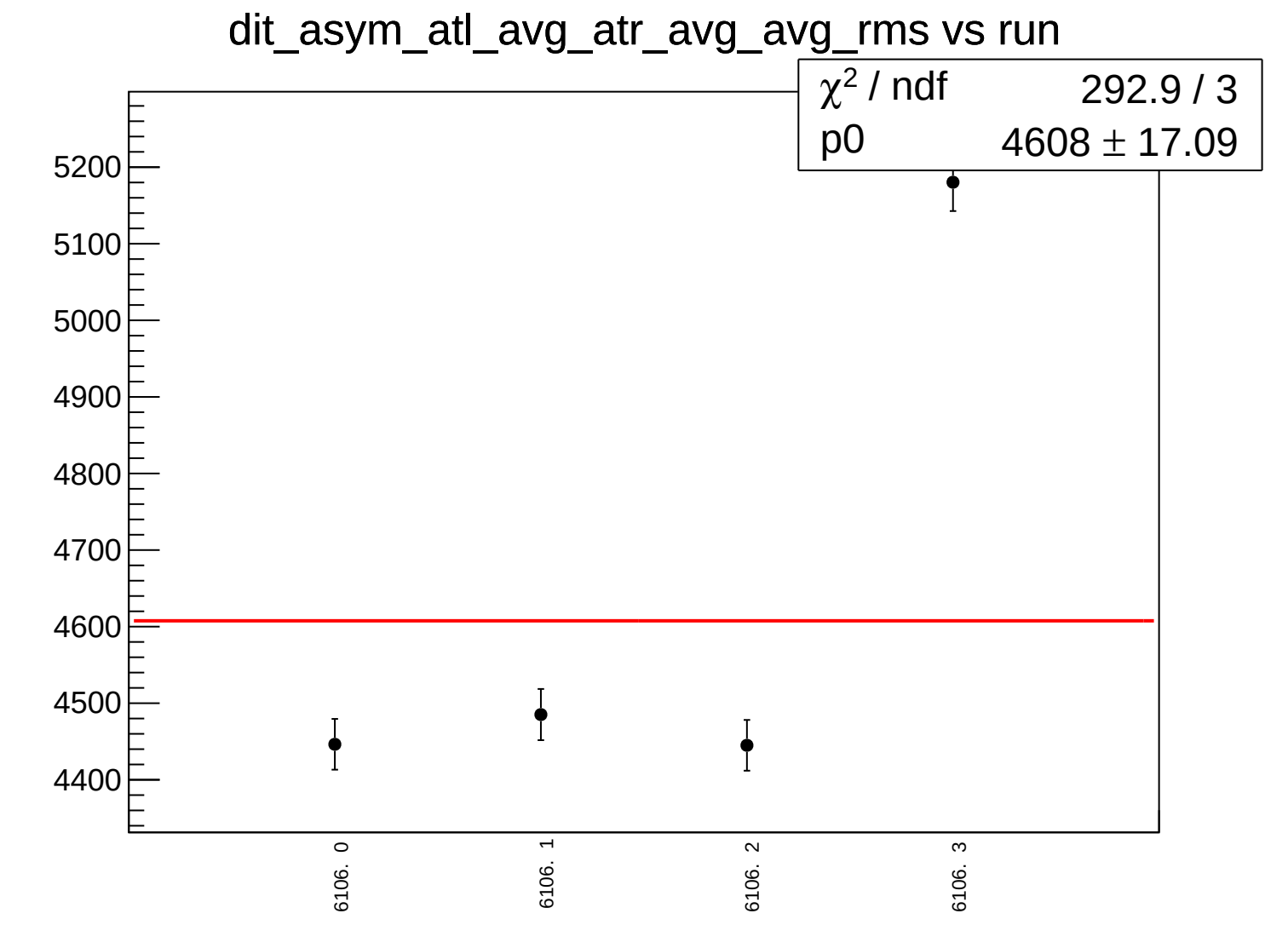

asym_atr_dd_mean vs run
×10^3
χ² / ndf 4.253 / 3
p0 −6853 ± 2.557e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 143.1
Std Dev 137.6
1.5
1
0.5
0
−0.5
−1

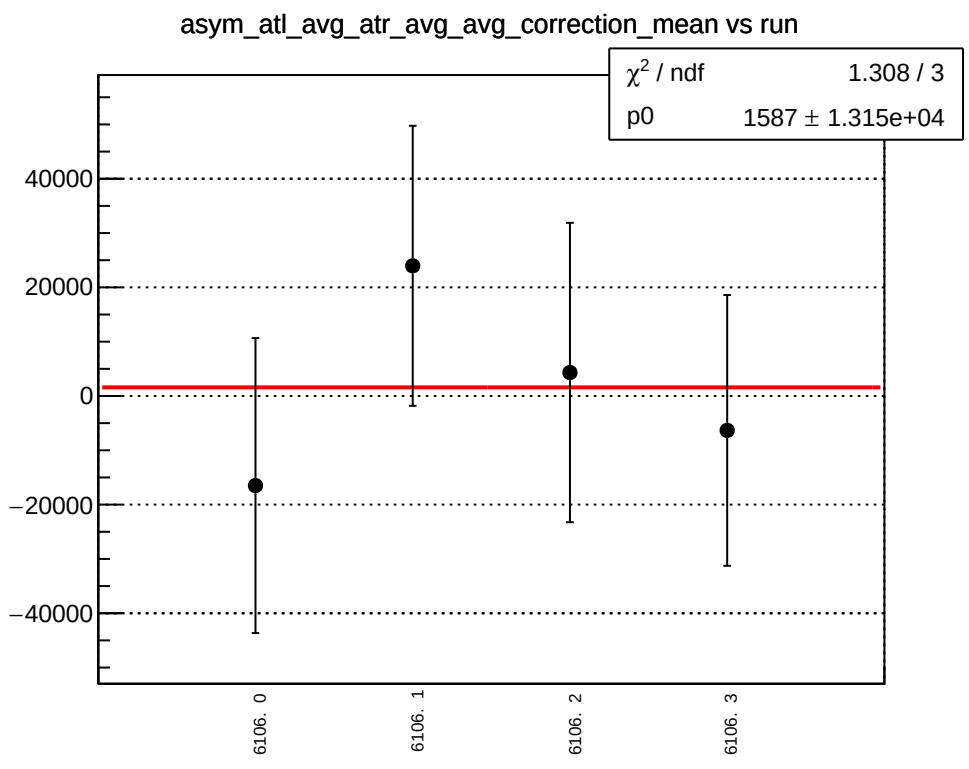

pull1D
Entries 4
Mean −0.0009947
Std Dev 1.031
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

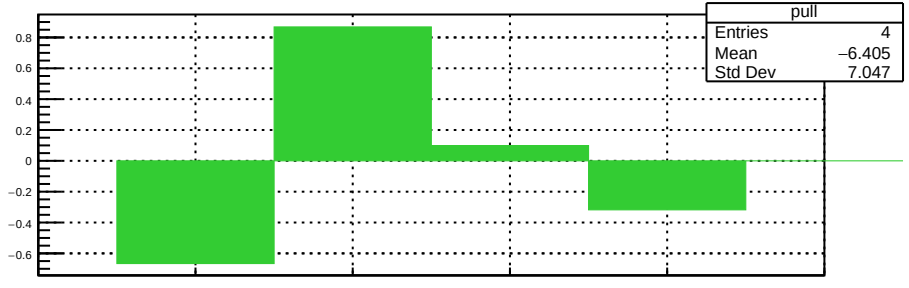

asym_atr_dd_rms vs run
χ² / ndf 108.3 / 3
p0 4880 ± 18.08
5100
5000
4900
4800
4700
6106. 0
6106. 1
6106. 2
6106. 3

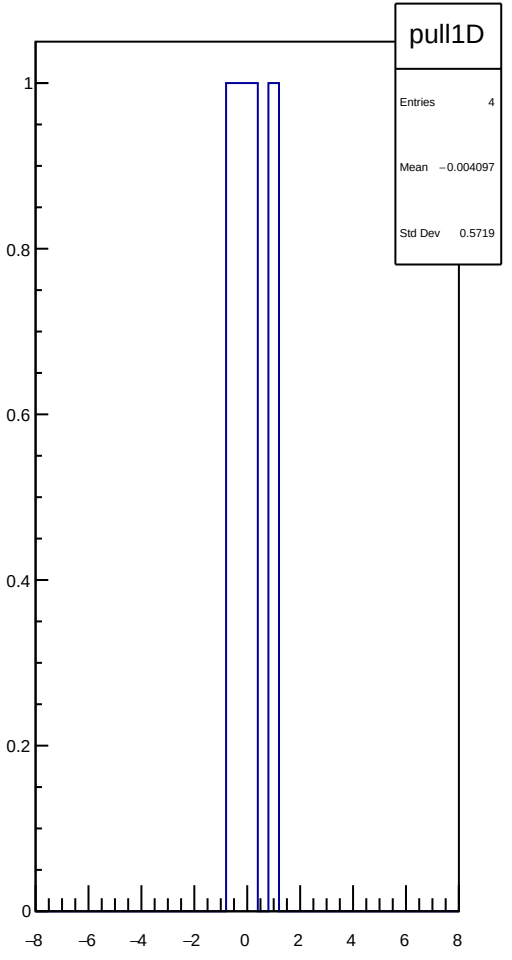

dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 5.655 / 3
p0 7835 ± 2.417e+04
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 21.71
Std Dev 19.41
1
0.5
0
−0.5
−1
−1.5
−2

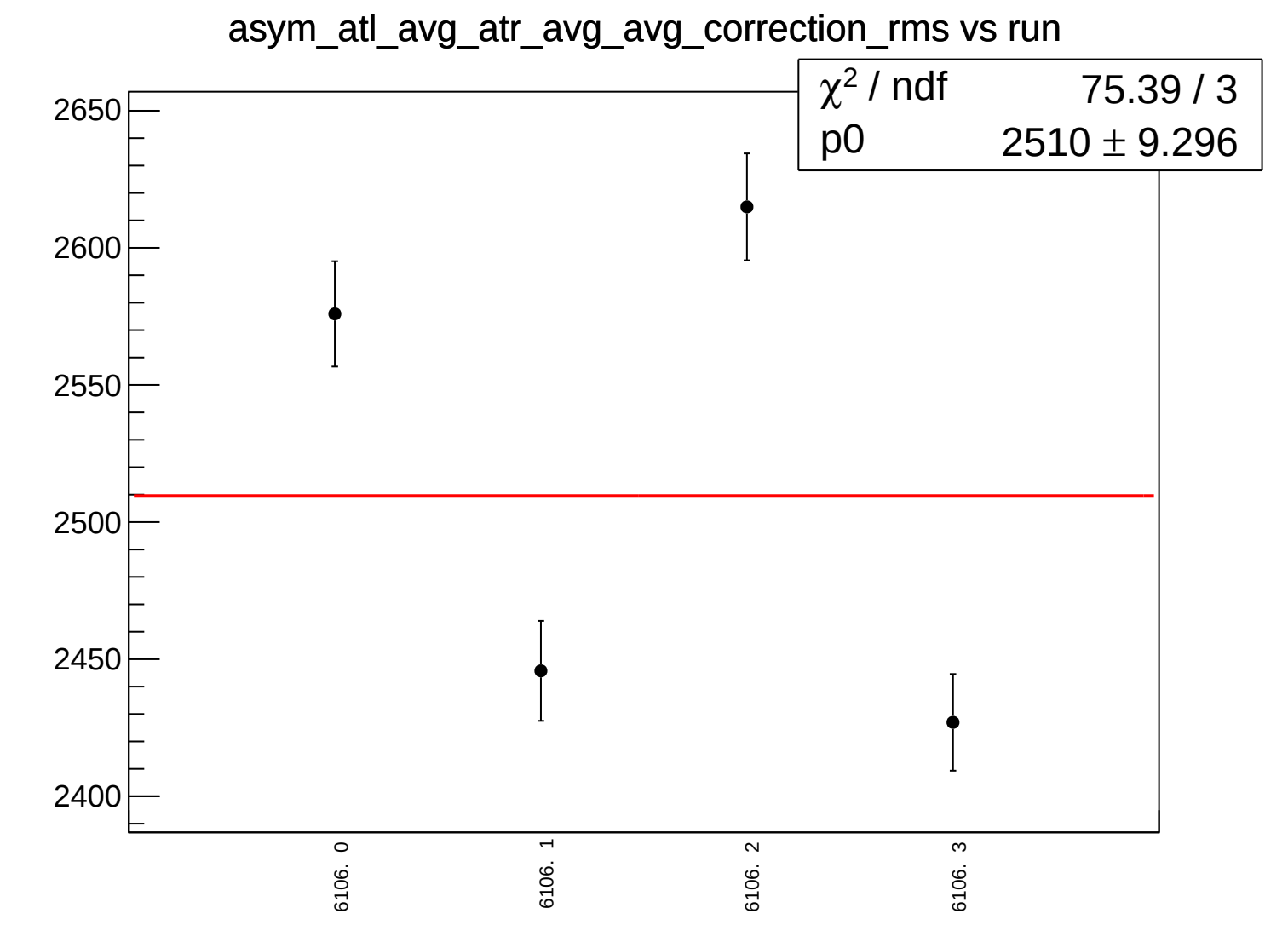

pull1D
Entries 4
Mean −0.05794
Std Dev 1.188
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

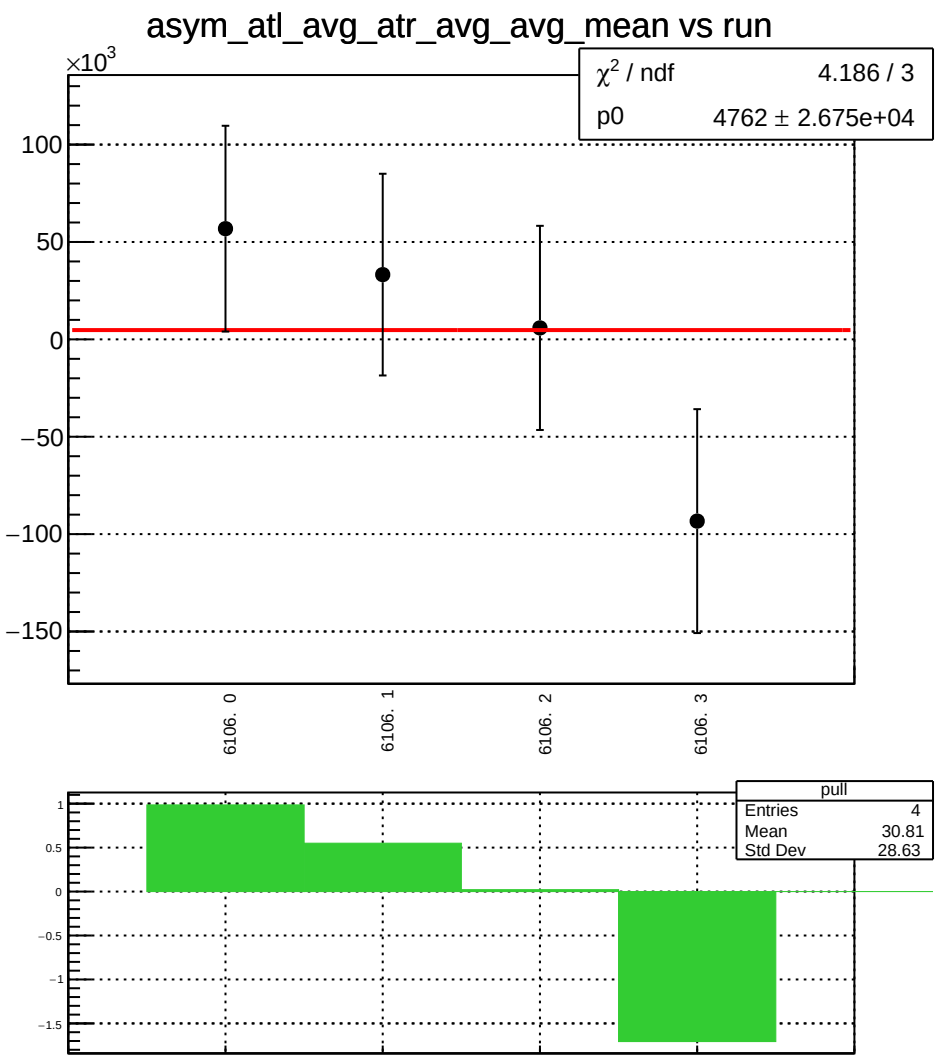

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 292.9 / 3
p0 4608 ± 17.09
5200
5100
5000
4900
4800
4700
4600
4500
4400
6106. 0
6106. 1
6106. 2
6106. 3

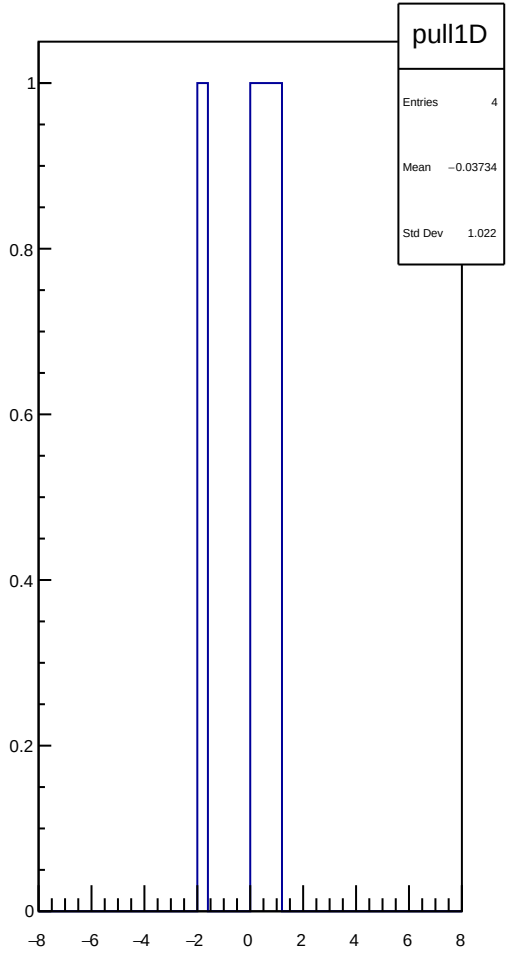

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 1.308 / 3
p0 1587 ± 1.315e+04
40000
20000
0
−20000
−40000
6106. 0
6106. 1
6106. 2
6106. 3

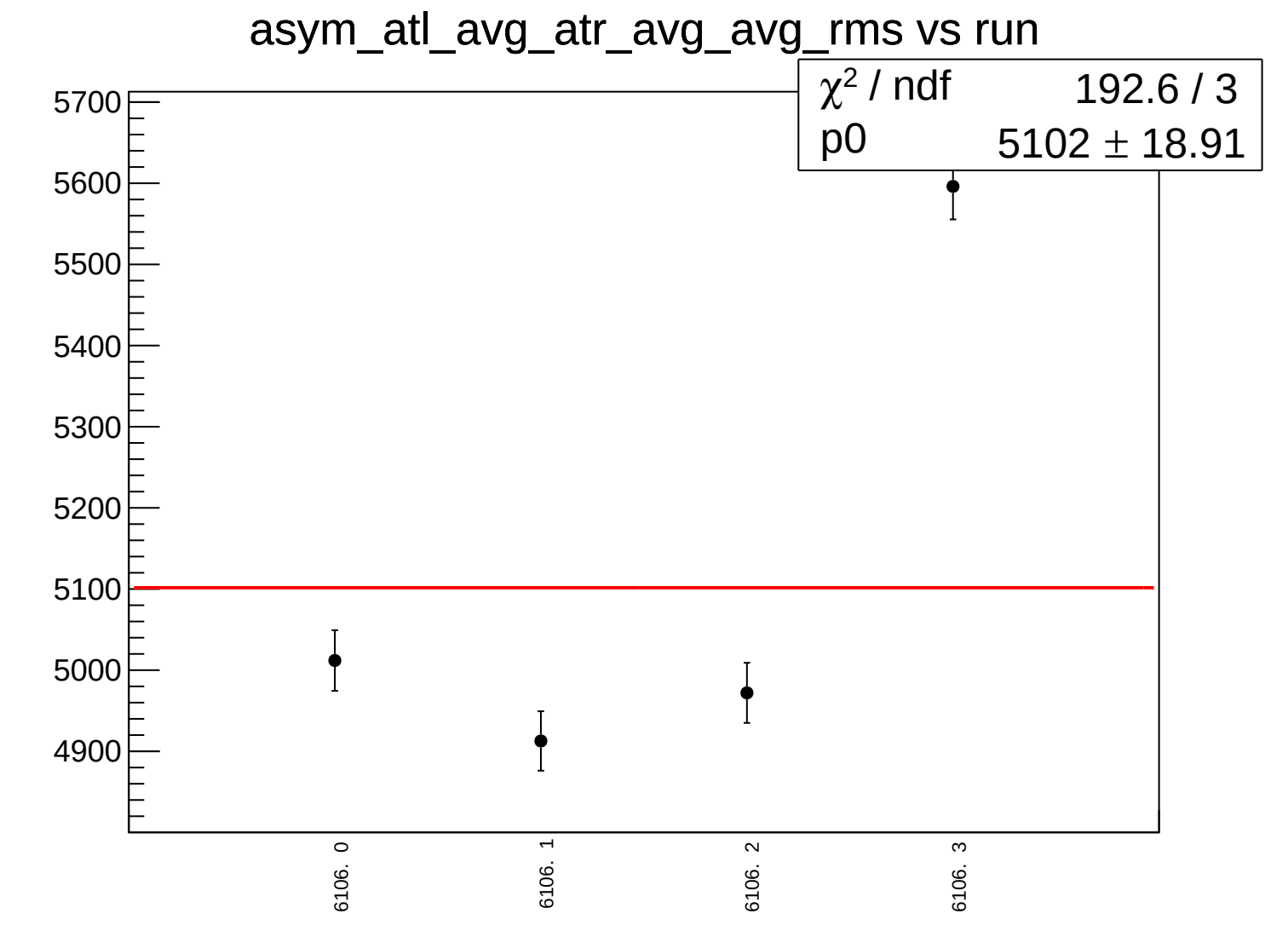

pull
Entries 4
Mean −6.405
Std Dev 7.047
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

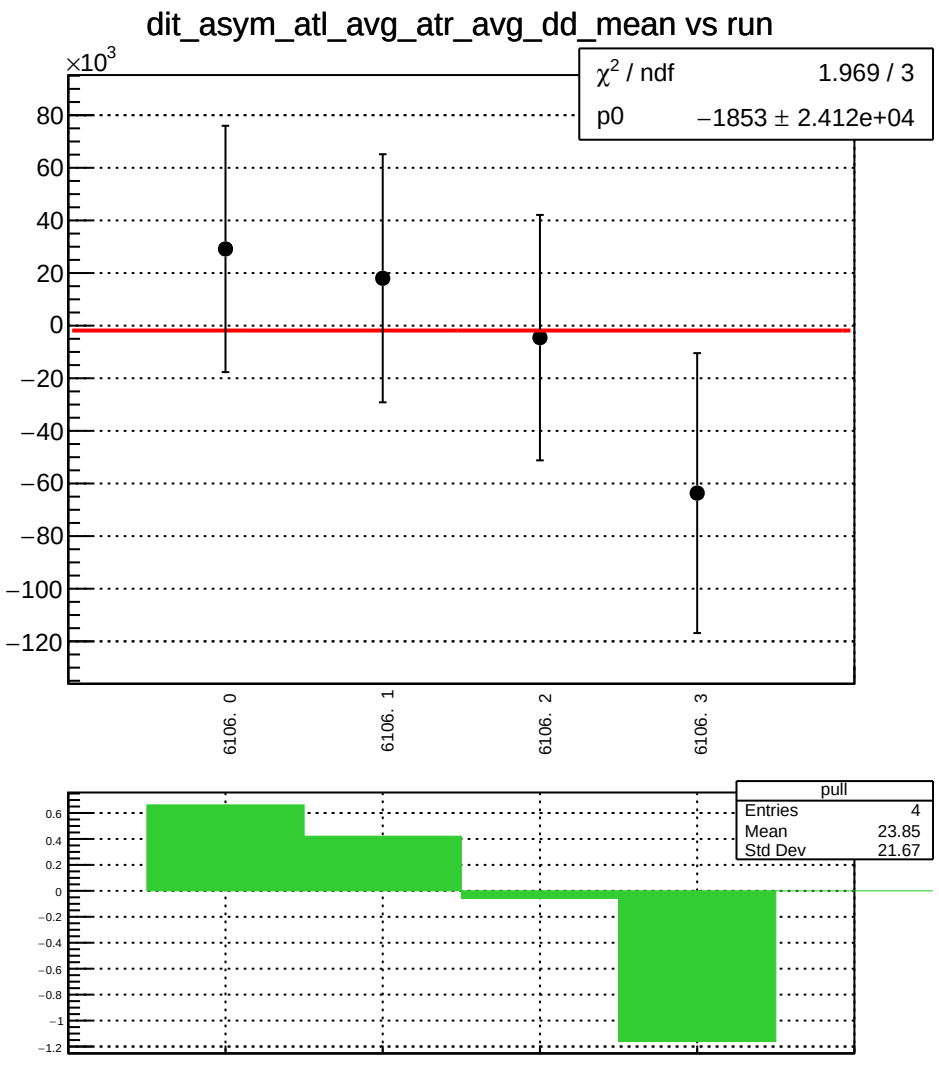

pull1D
Entries 4
Mean −0.004097
Std Dev 0.5719
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

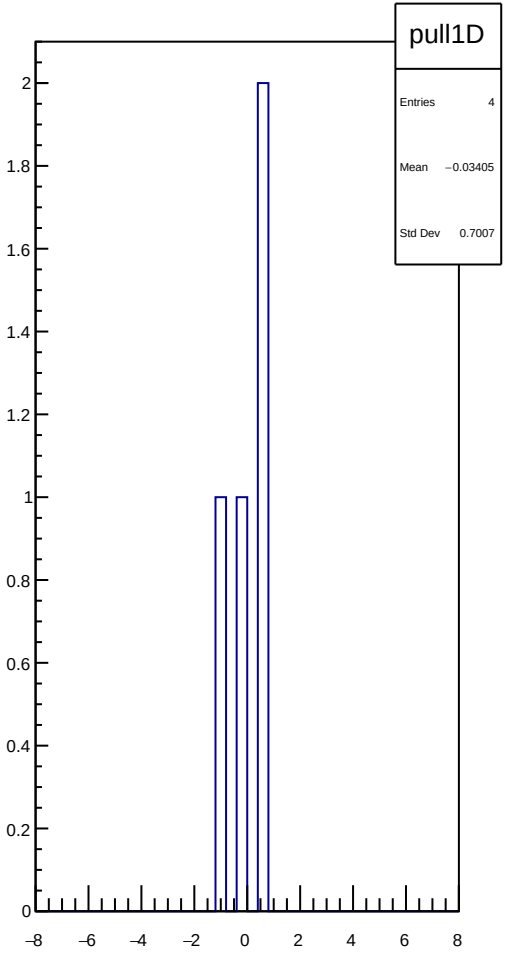

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 75.39 / 3
p0 2510 ± 9.296
2650
2600
2550
2500
2450
2400
6106. 0
6106. 1
6106. 2
6106. 3

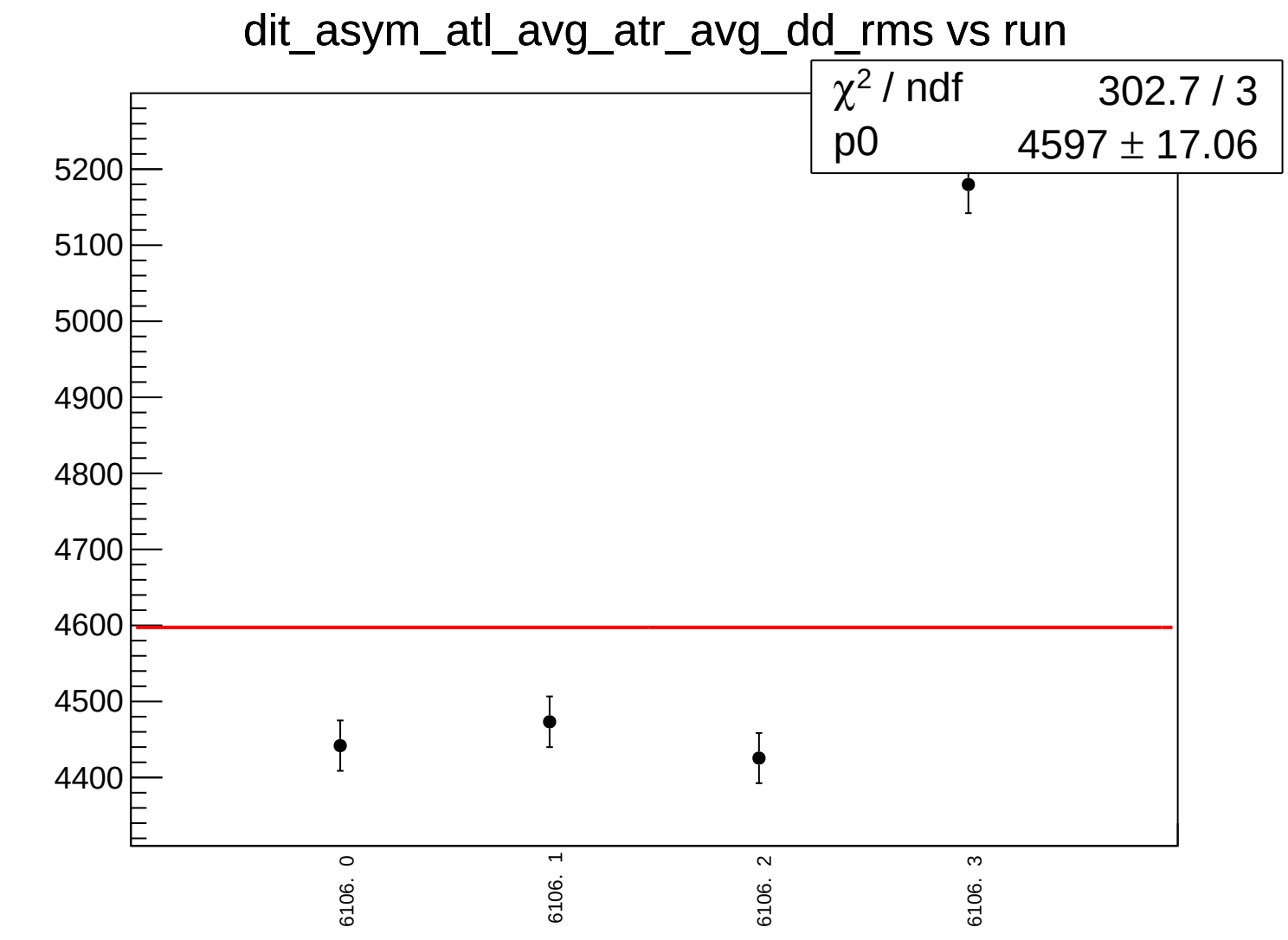

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 4.186 / 3
p0 4762 ± 2.675e+04
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 30.81
Std Dev 28.63
1
0.5
0
−0.5
−1
−1.5

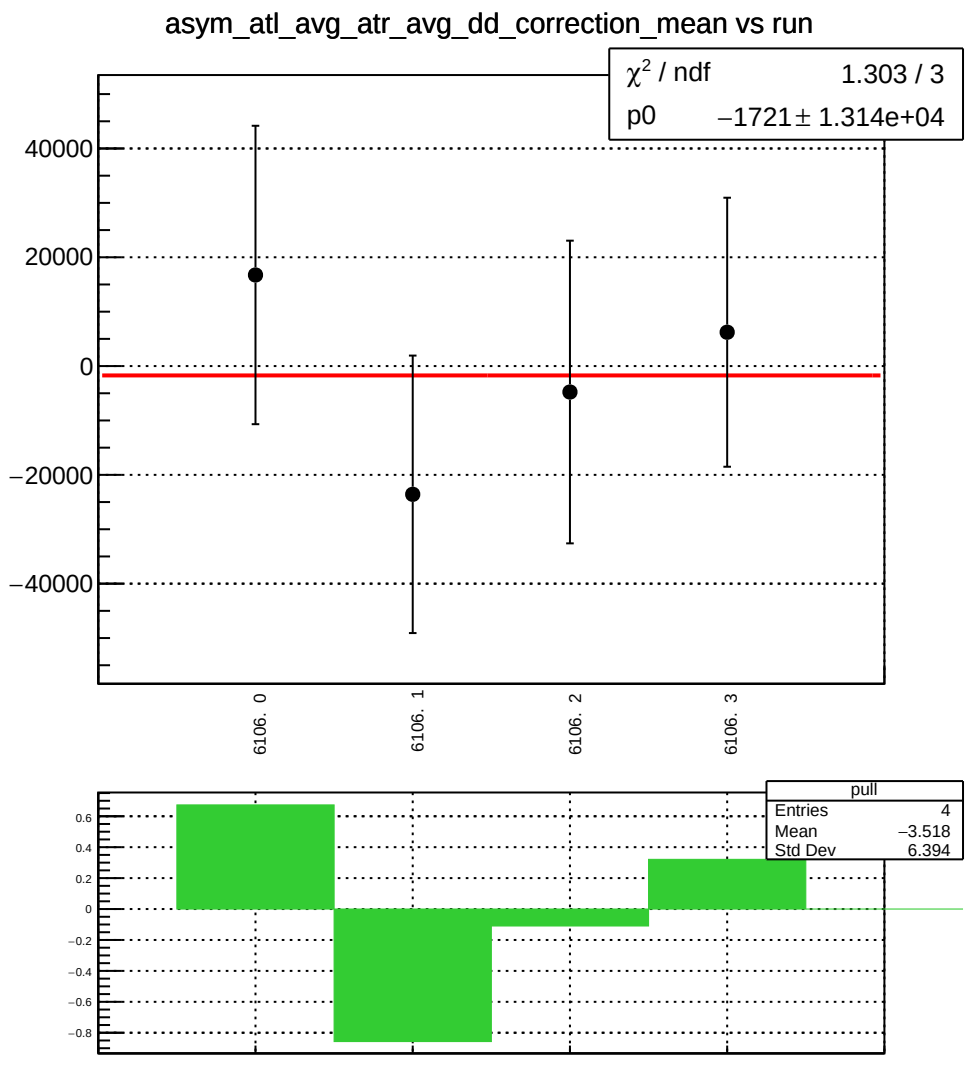

pull1D
Entries 4
Mean −0.03734
Std Dev 1.022
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

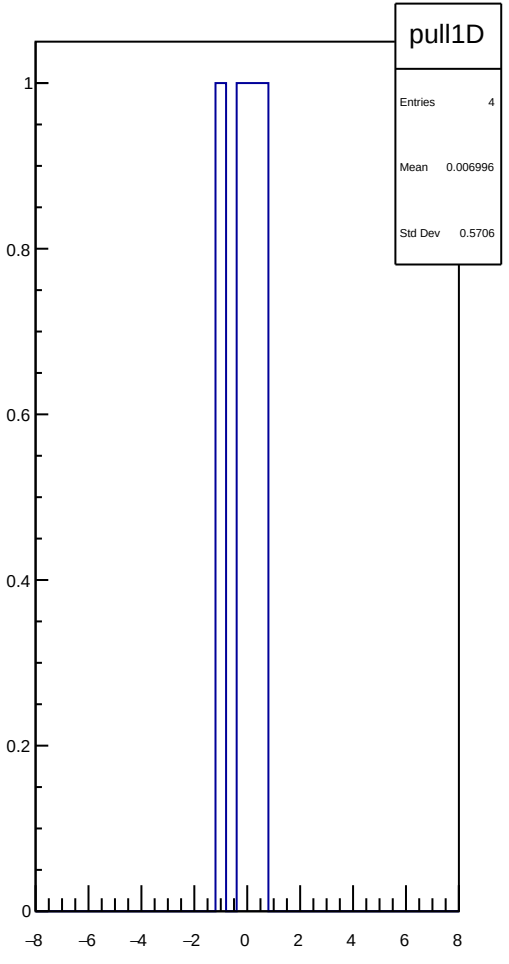

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 192.6 / 3
p0 5102 ± 18.91
5700
5600
5500
5400
5300
5200
5100
5000
4900
6106. 0
6106. 1
6106. 2
6106. 3

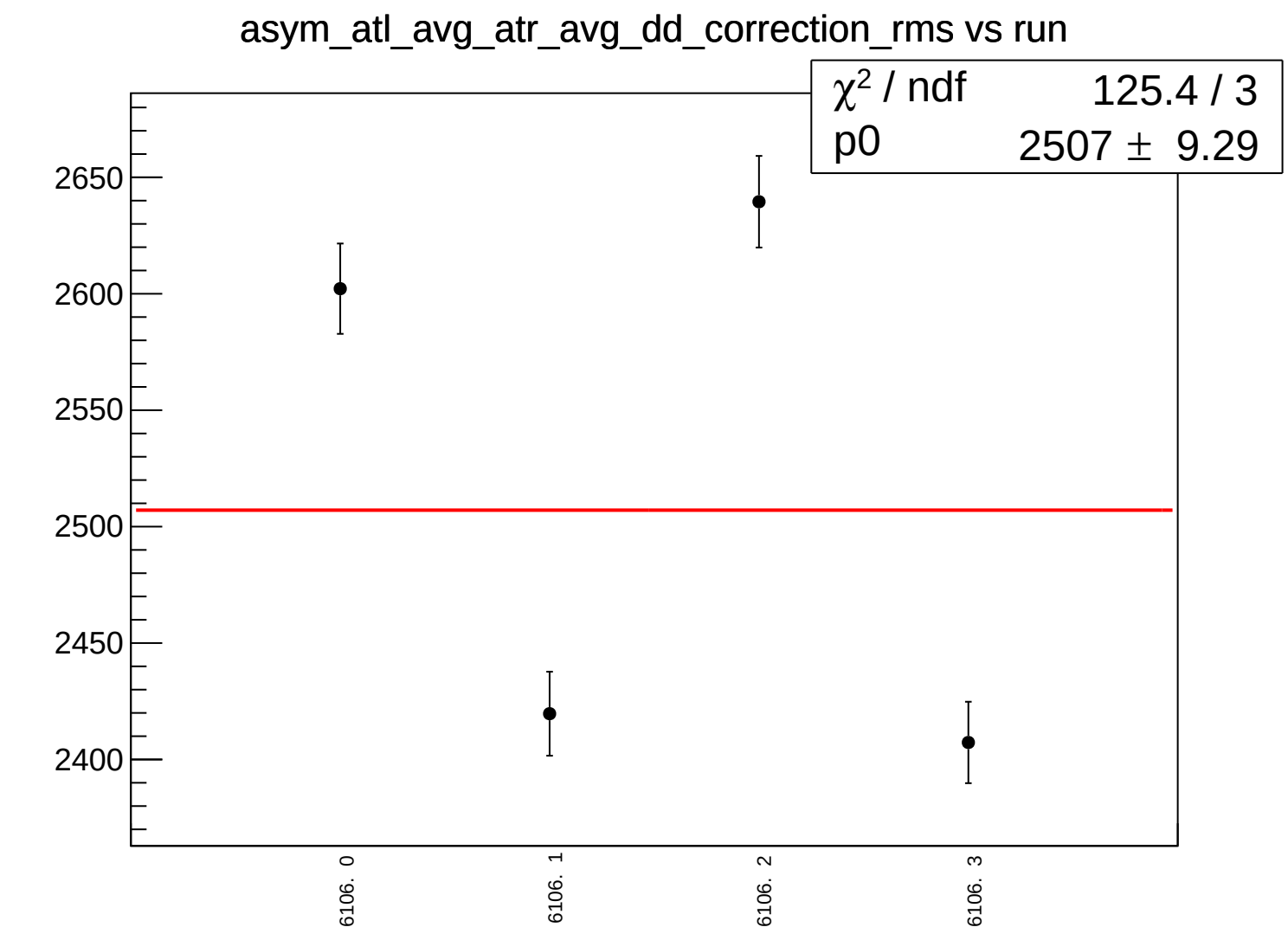

dit_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 1.969 / 3
p0 −1853 ± 2.412e+04
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 23.85
Std Dev 21.67
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

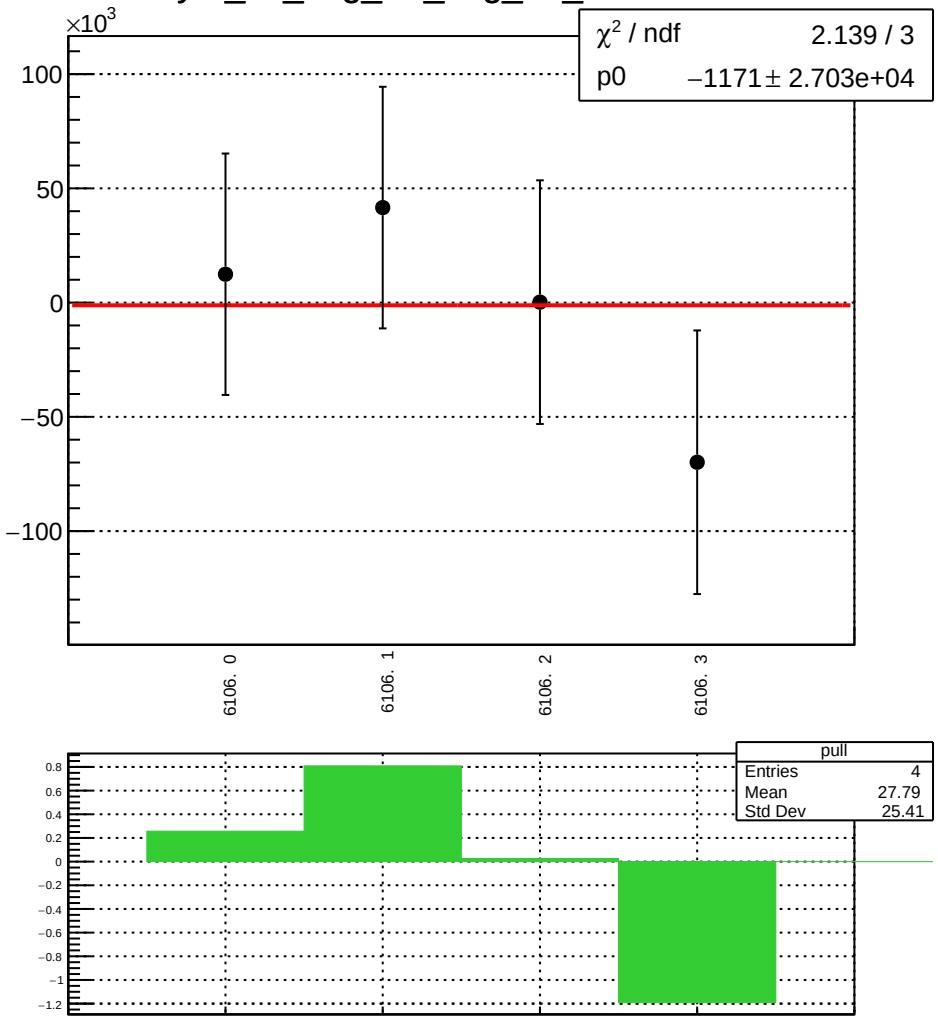

pull1D
Entries 4
Mean −0.03405
Std Dev 0.7007
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

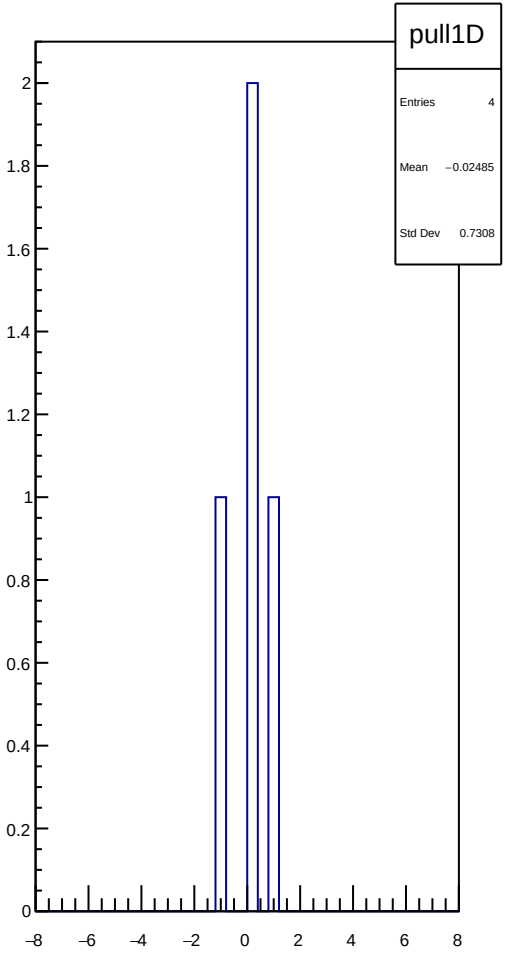

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 302.7 / 3
p0 4597 ± 17.06
5200
5100
5000
4900
4800
4700
4600
4500
4400
6106. 0
6106. 1
6106. 2
6106. 3

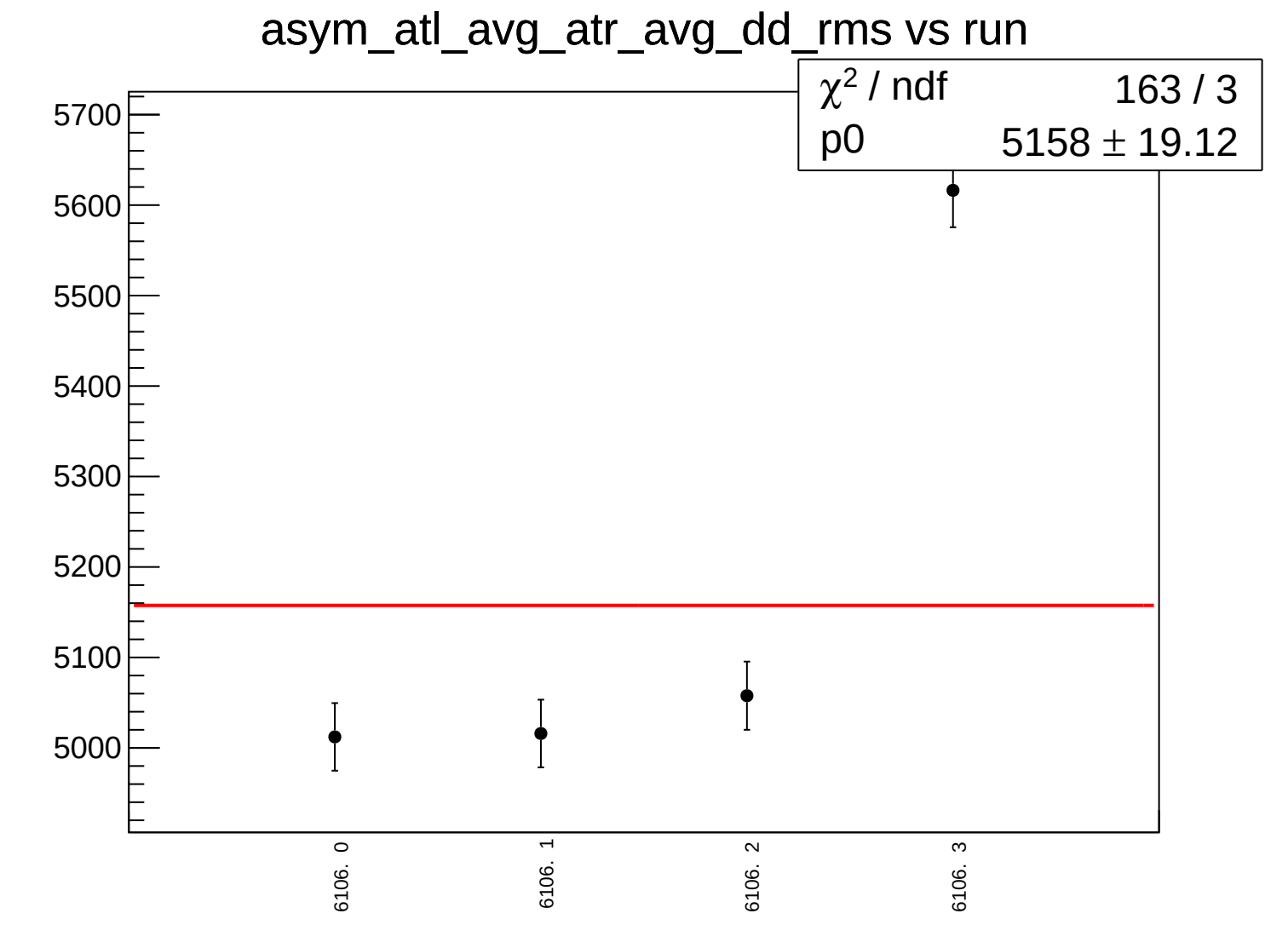

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 1.303 / 3
p0 −1721 ± 1.314e+04
40000
20000
0
−20000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.518
Std Dev 6.394
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

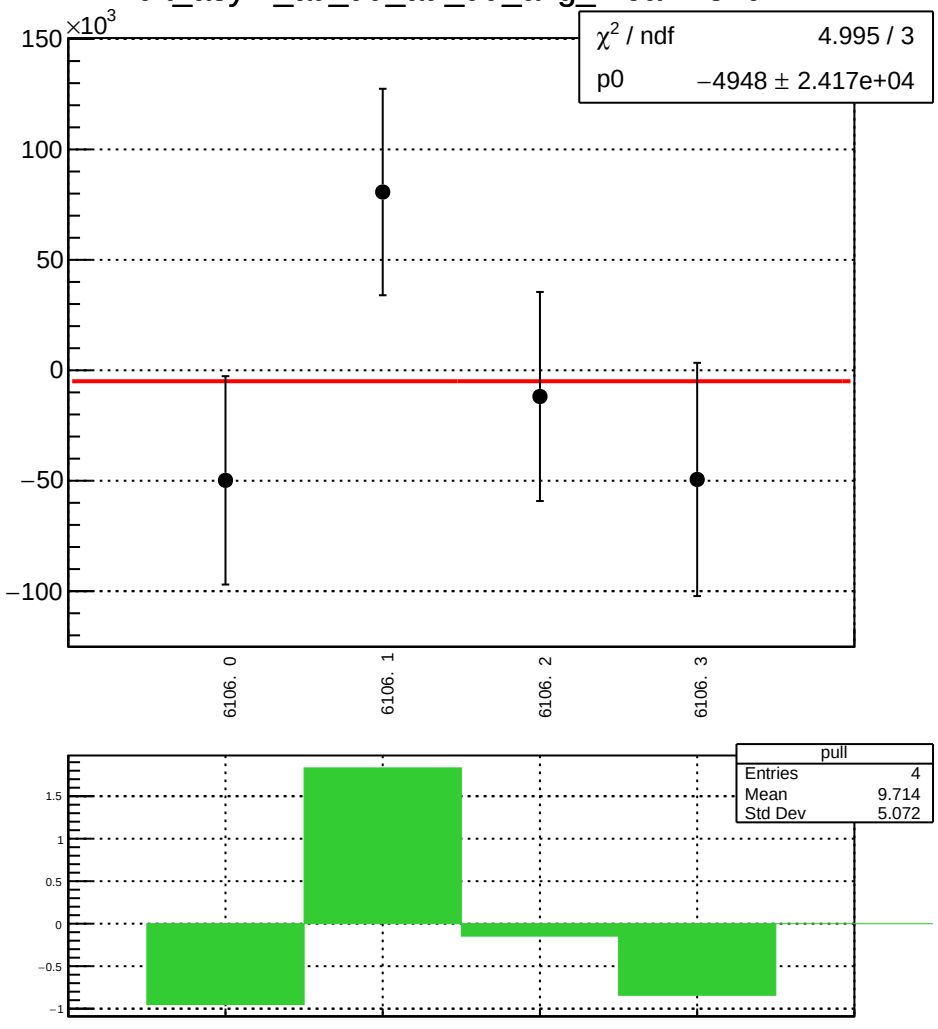

pull1D
Entries 4
Mean 0.006996
Std Dev 0.5706
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

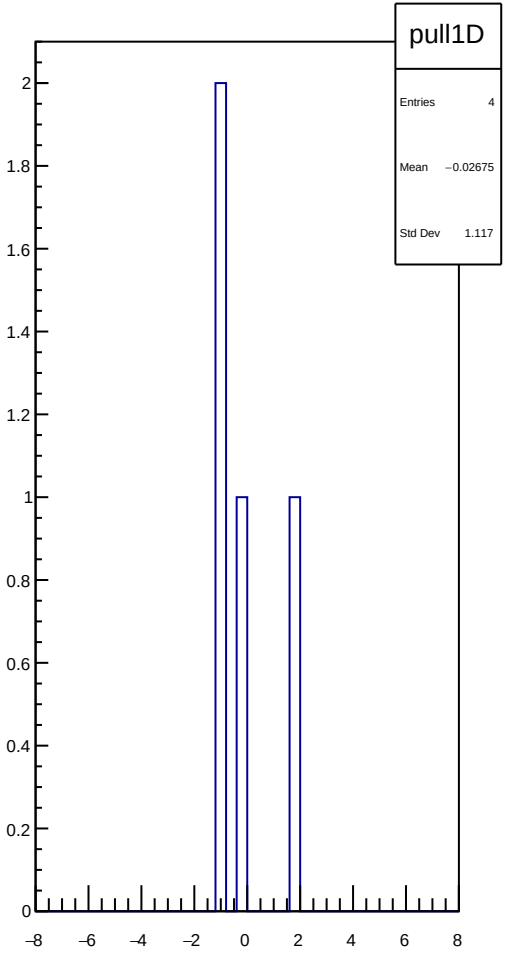

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 125.4 / 3
p0 2507 ± 9.29
2650
2600
2550
2500
2450
2400
6106. 0
6106. 1
6106. 2
6106. 3

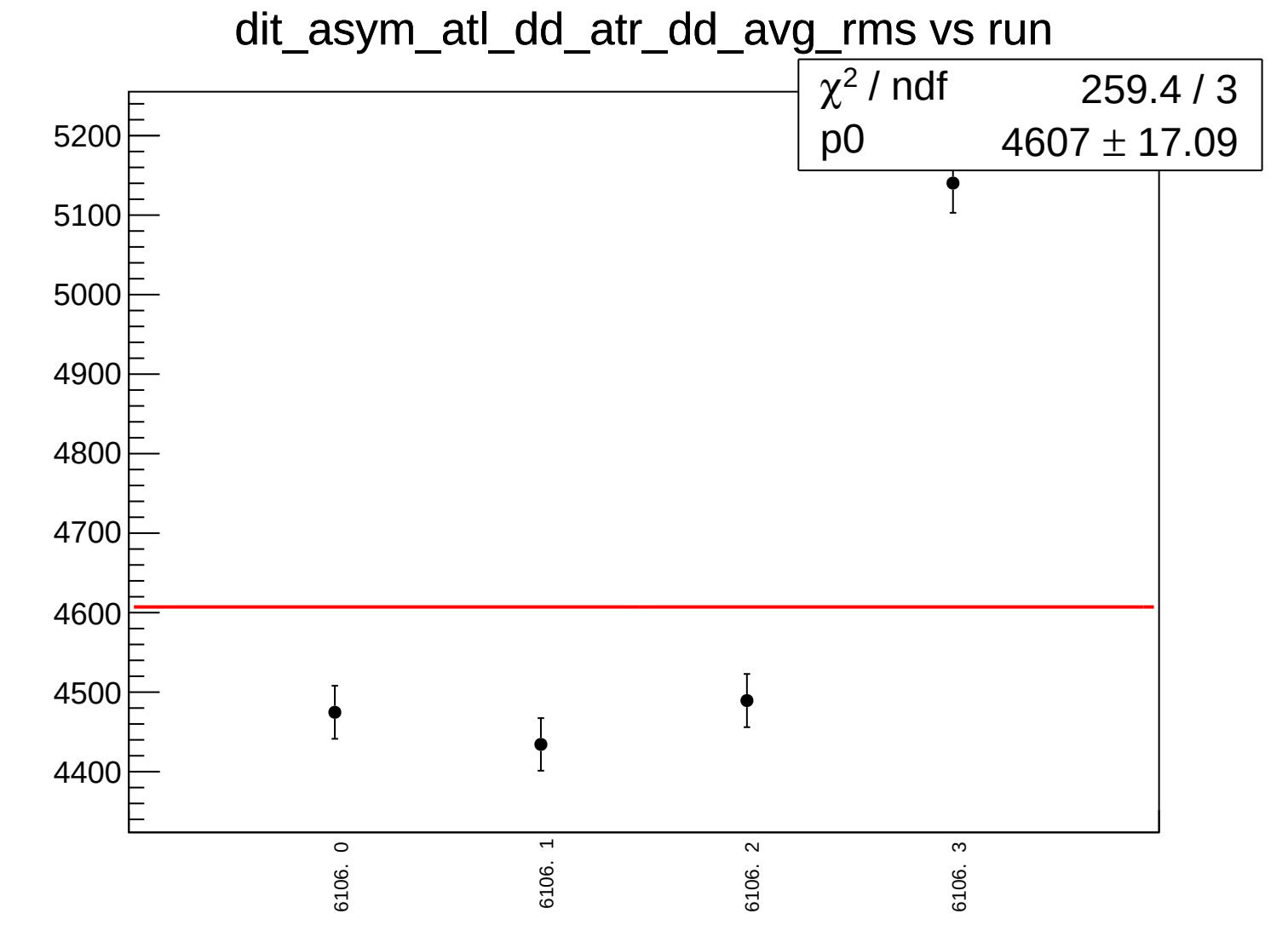

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 2.139 / 3
p0 −1171 ± 2.703e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 27.79
Std Dev 25.41
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

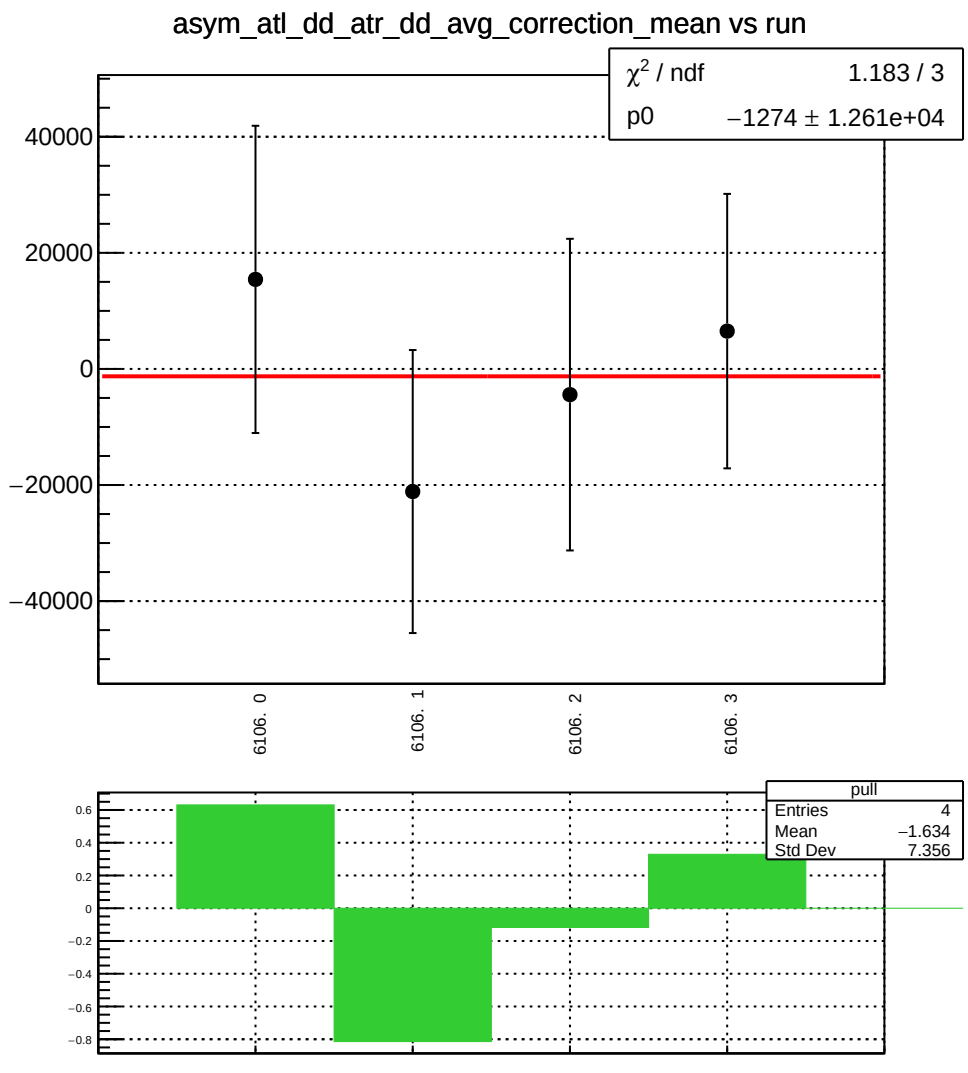

pull1D
Entries 4
Mean −0.02485
Std Dev 0.7308
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

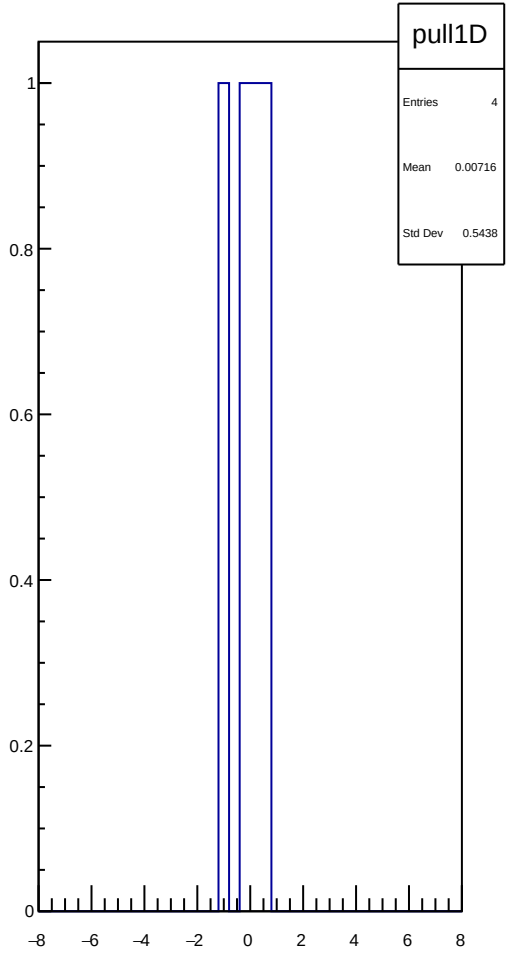

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 163 / 3
p0 5158 ± 19.12
5700
5600
5500
5400
5300
5200
5100
5000
6106. 0
6106. 1
6106. 2
6106. 3

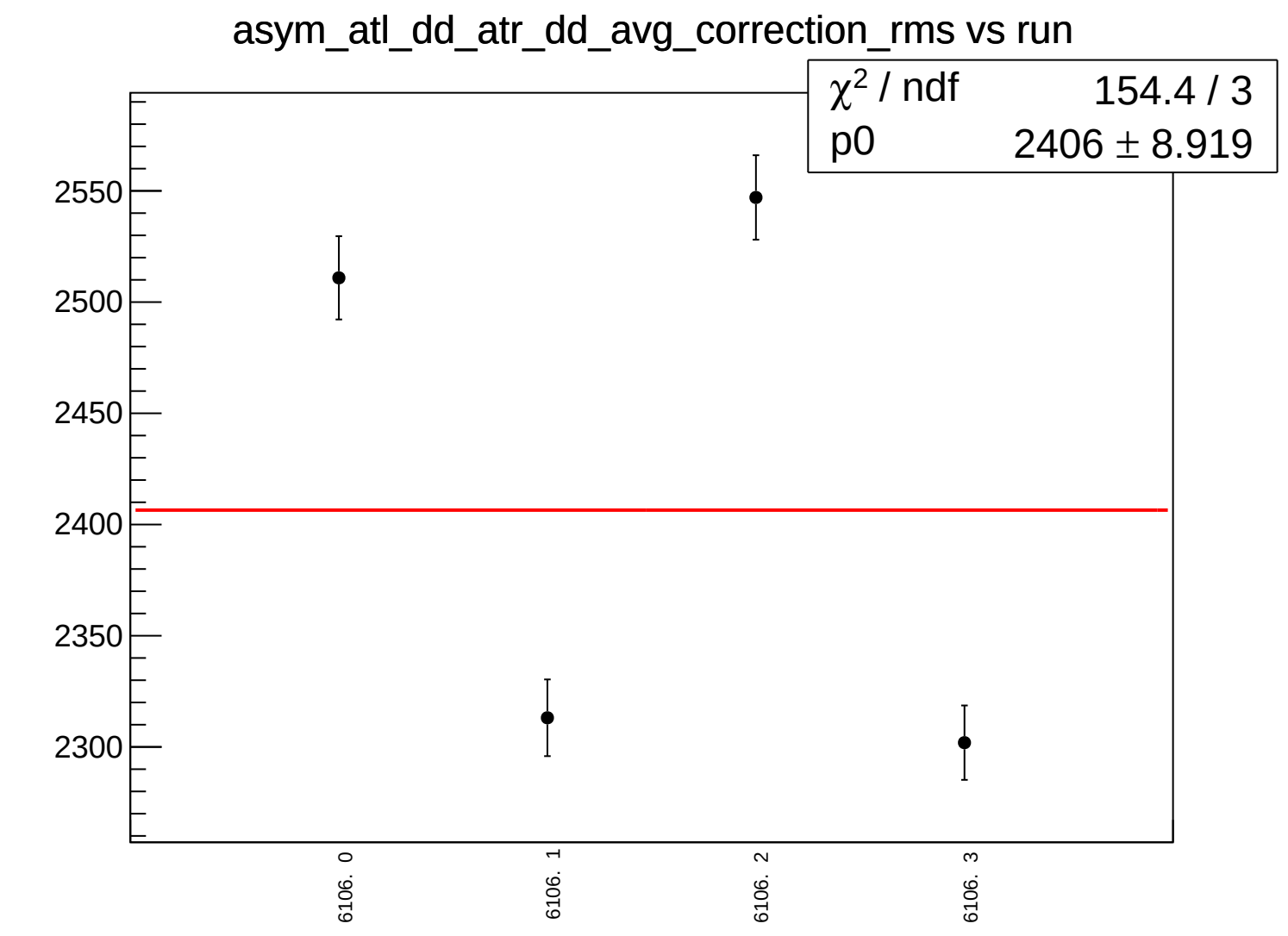

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 4.995 / 3
p0 −4948 ± 2.417e+04
×10³
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 9.714
Std Dev 5.072
1.5
1
0.5
0
−0.5
−1

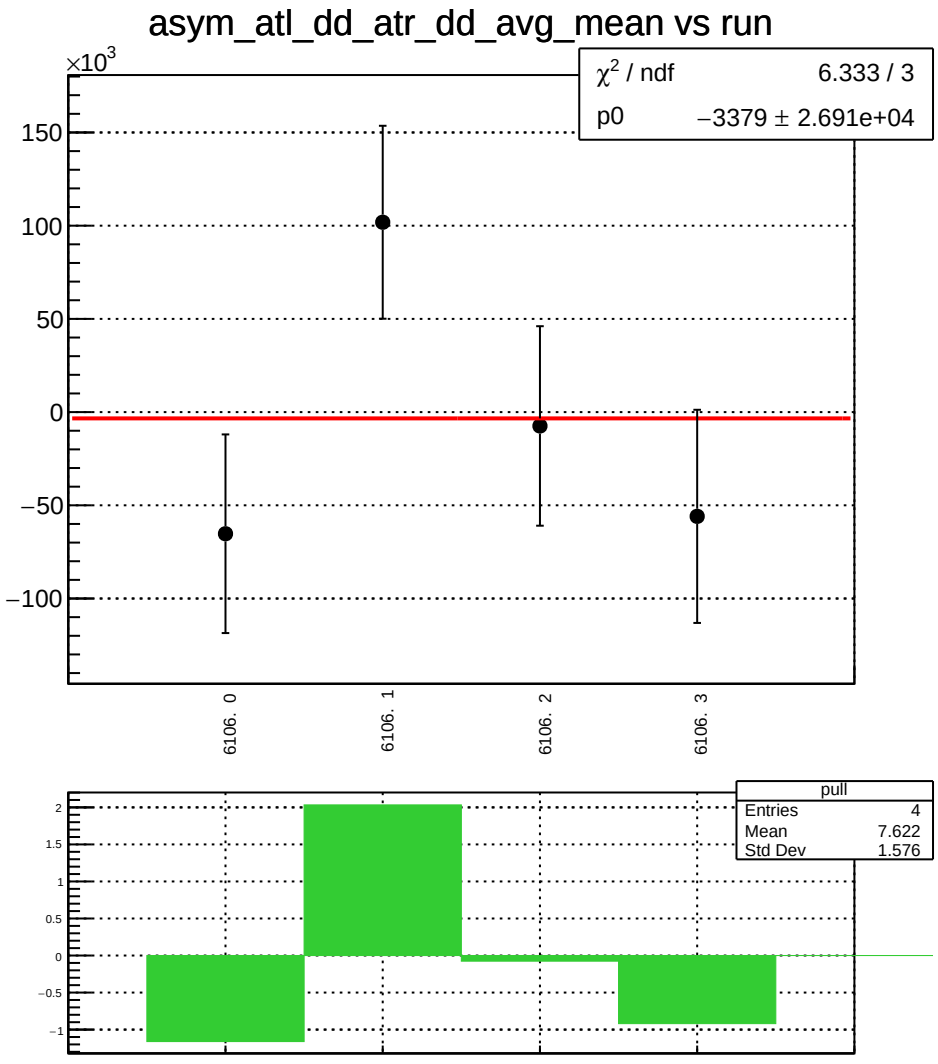

pull1D
Entries 4
Mean −0.02675
Std Dev 1.117
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

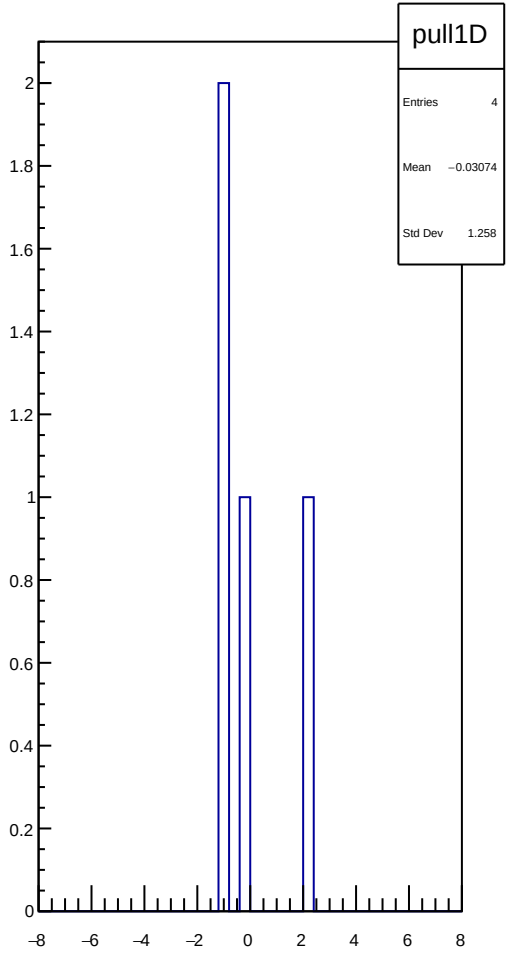

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 259.4 / 3
p0 4607 ± 17.09
5200
5100
5000
4900
4800
4700
4600
4500
4400
6106. 0
6106. 1
6106. 2
6106. 3

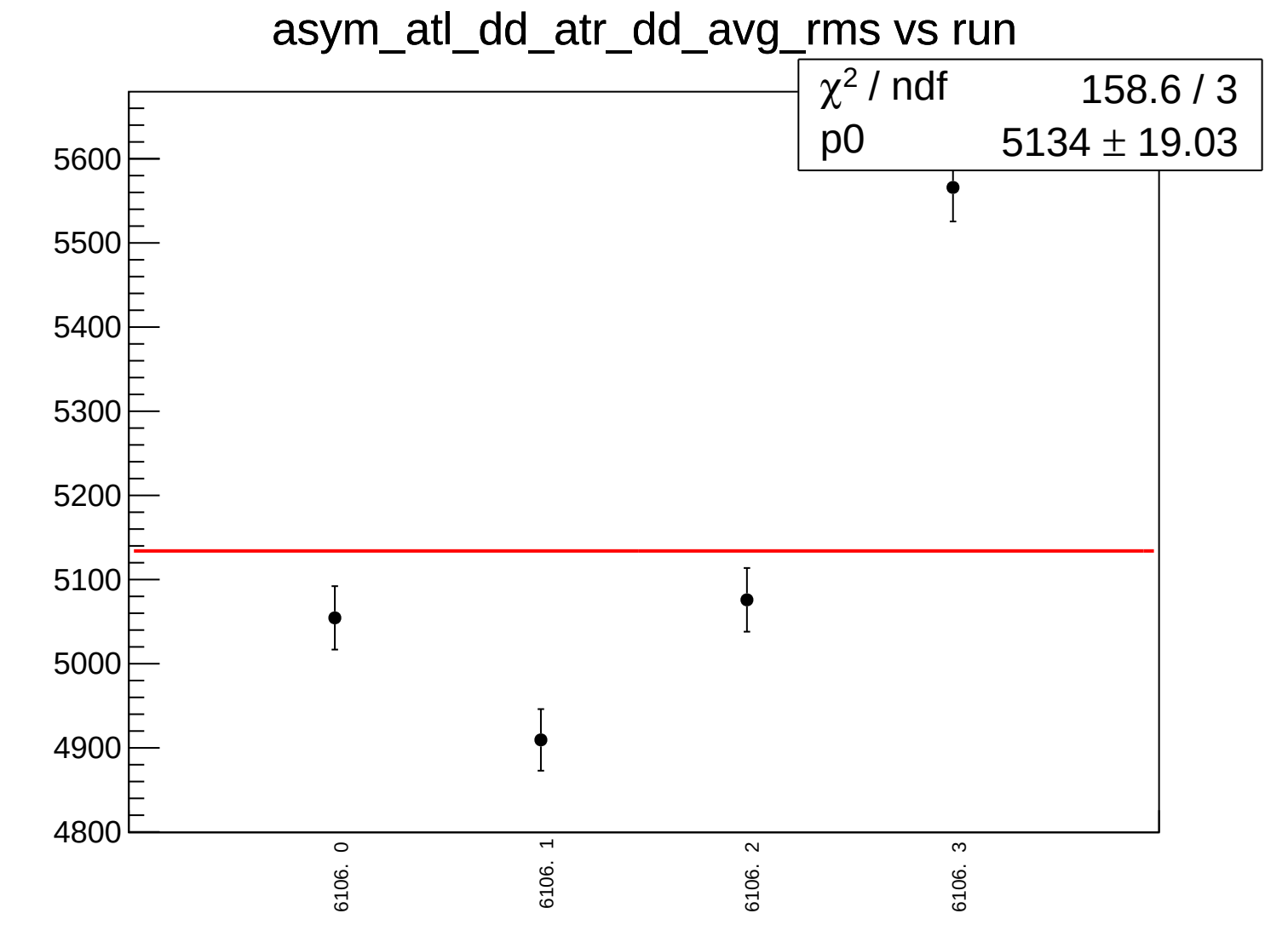

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 1.183 / 3
p0 −1274 ± 1.261e+04
40000
20000
0
−20000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −1.634
Std Dev 7.356
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

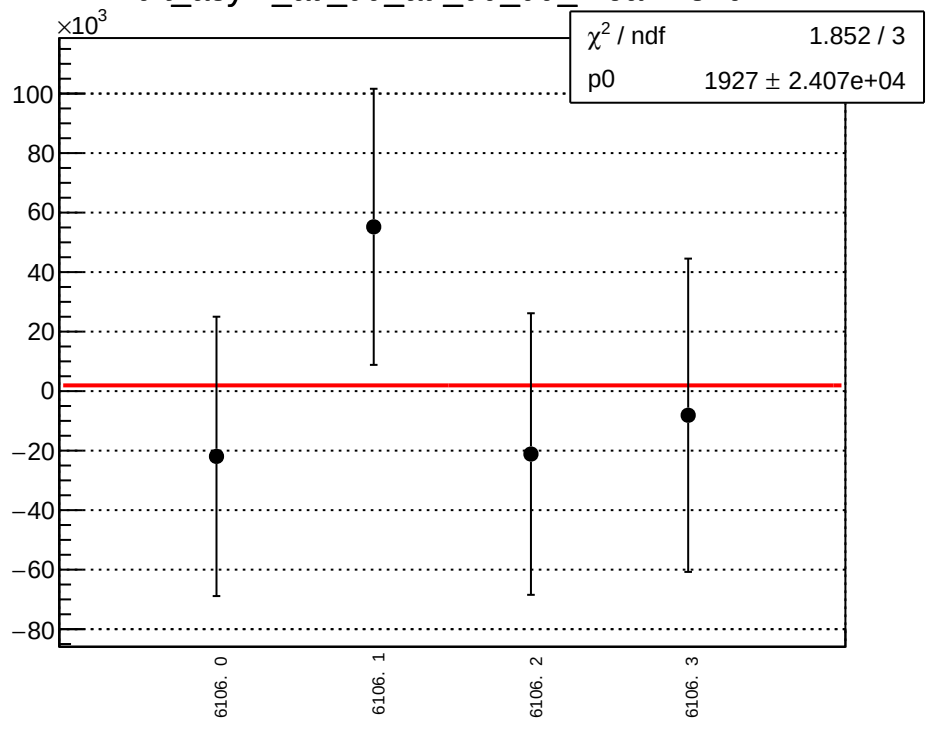

pull1D
Entries 4
Mean 0.00716
Std Dev 0.5438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

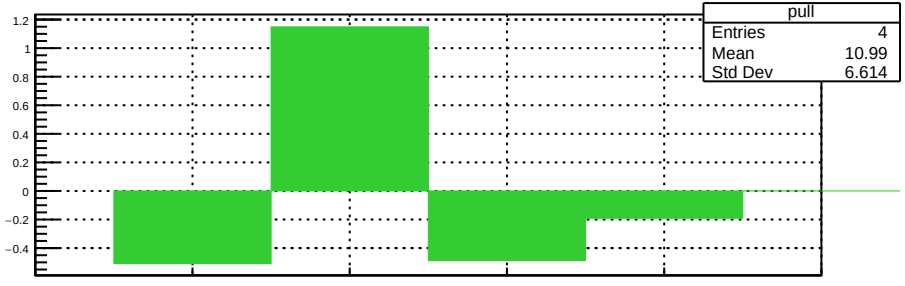

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 154.4 / 3
p0 2406 ± 8.919
2550
2500
2450
2400
2350
2300
6106. 0
6106. 1
6106. 2
6106. 3

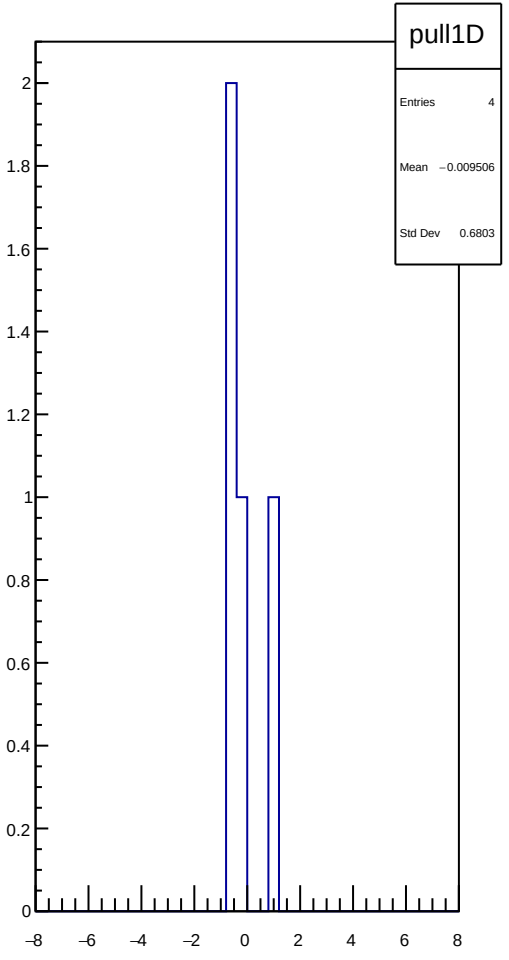

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 6.333 / 3
p0 −3379 ± 2.691e+04
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 7.622
Std Dev 1.576
2
1.5
1
0.5
0
−0.5
−1

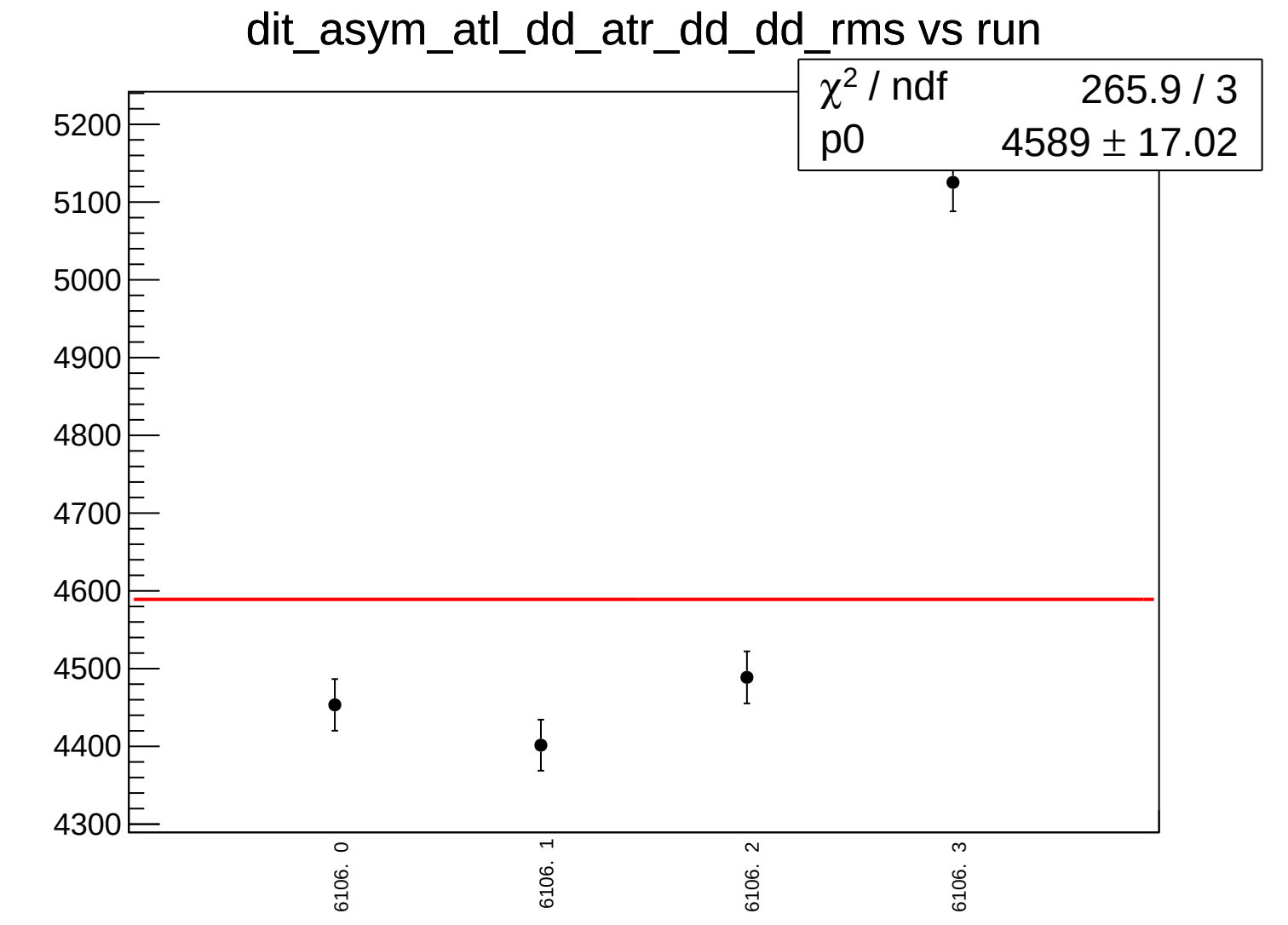

pull1D
Entries 4
Mean −0.03074
Std Dev 1.258
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

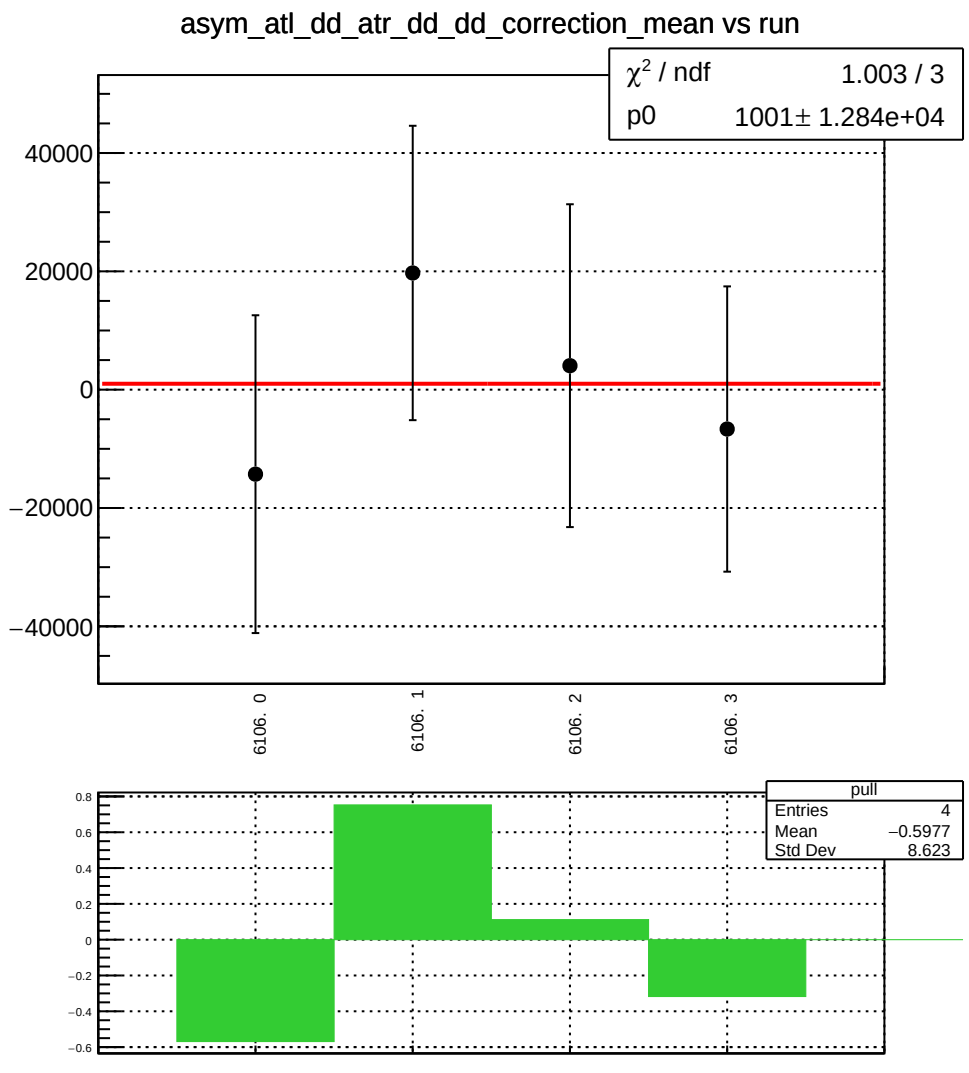

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 158.6 / 3
p0 5134 ± 19.03
5600
5500
5400
5300
5200
5100
5000
4900
4800
6106. 0
6106. 1
6106. 2
6106. 3

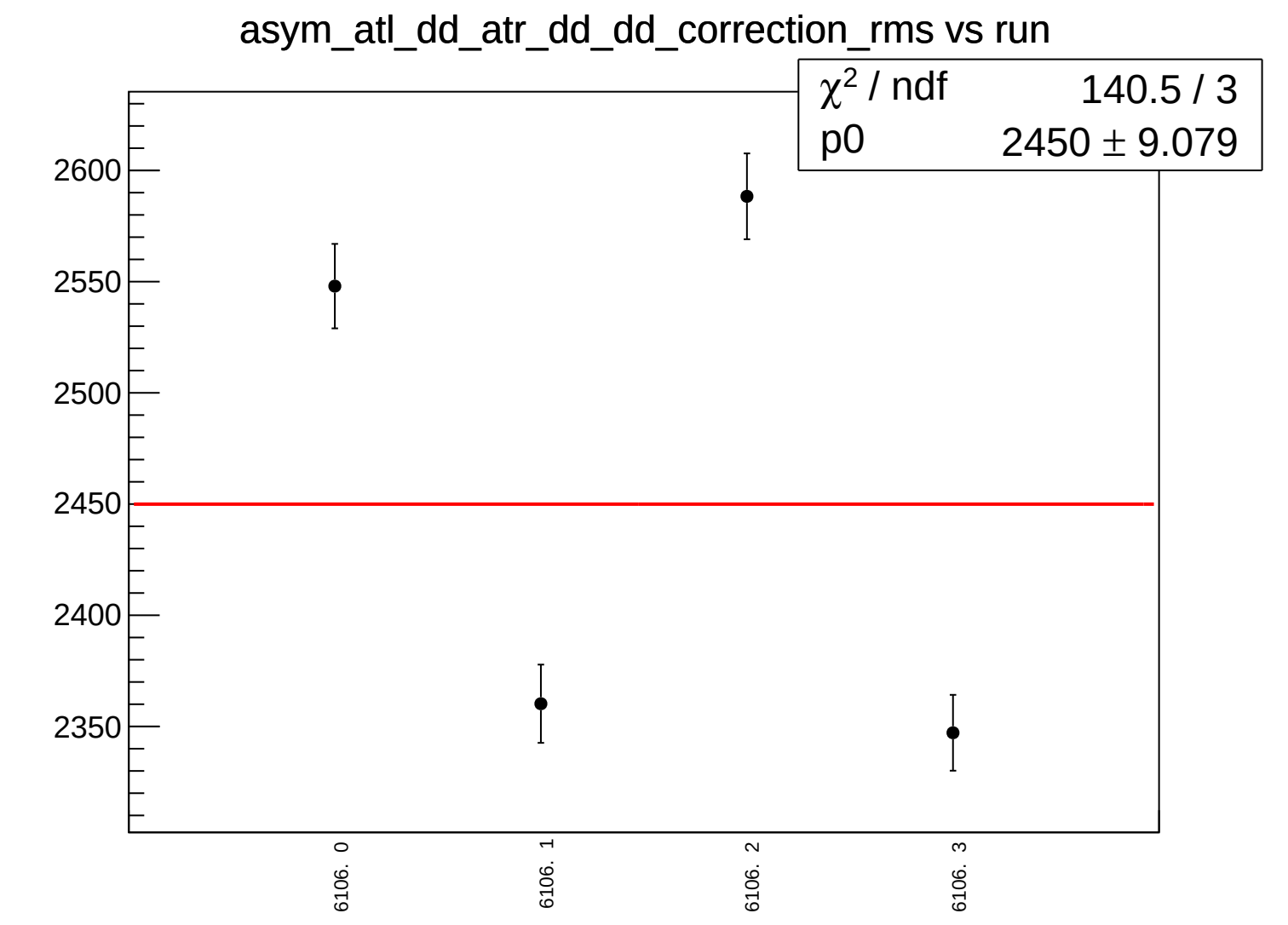

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 1.852 / 3
p0 1927 ± 2.407e+04
100
80
60
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3

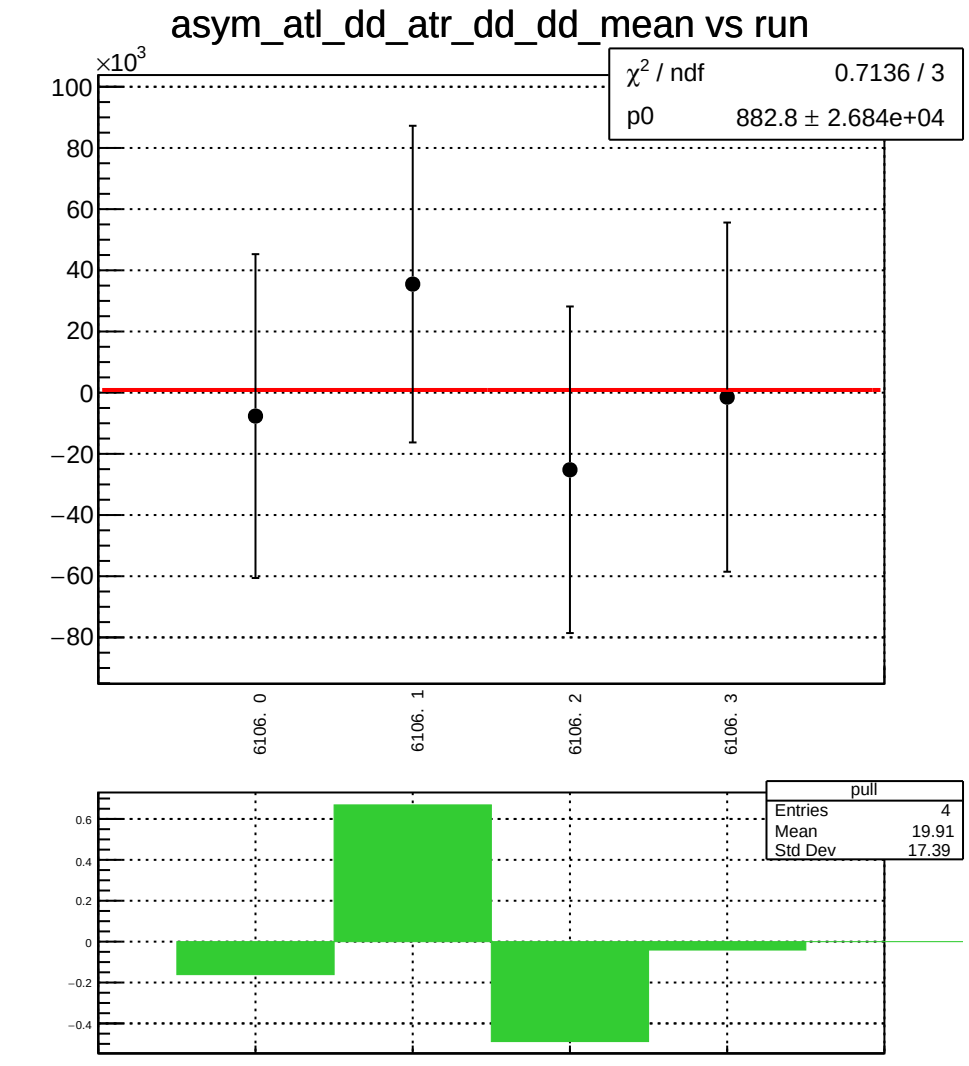

pull
Entries 4
Mean 10.99
Std Dev 6.614
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

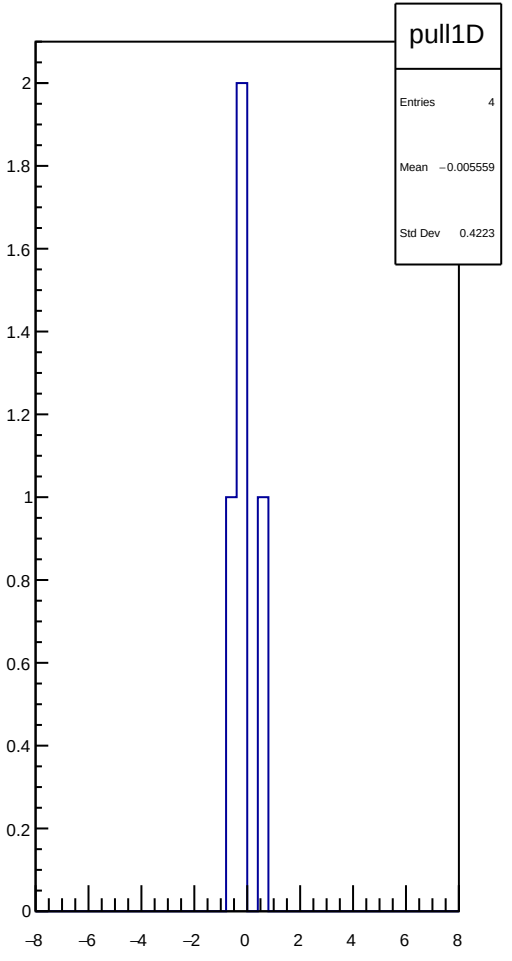

pull1D
Entries 4
Mean −0.009506
Std Dev 0.6803
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

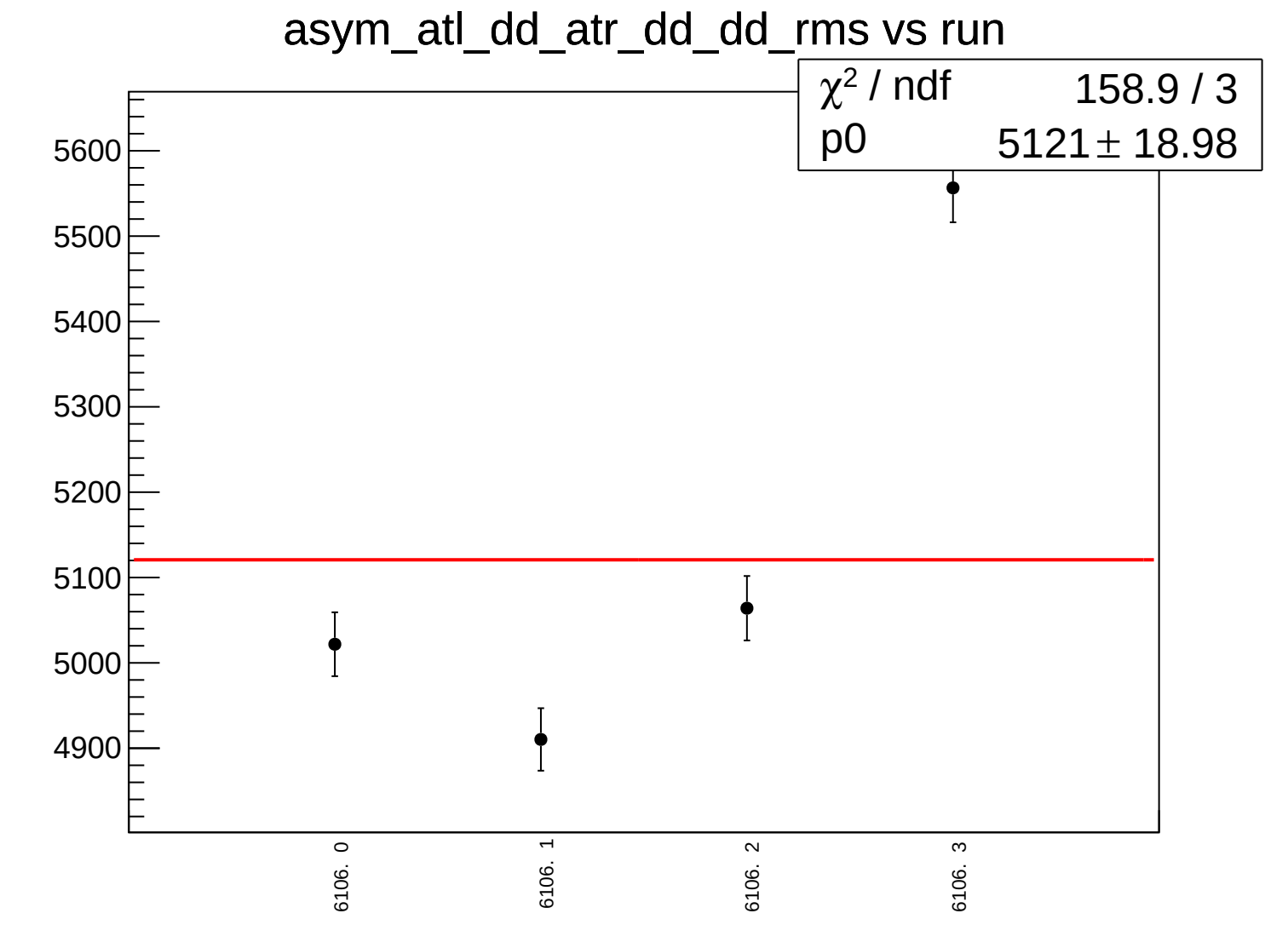

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 265.9 / 3
p0 4589 ± 17.02
5200
5100
5000
4900
4800
4700
4600
4500
4400
4300
6106. 0
6106. 1
6106. 2
6106. 3

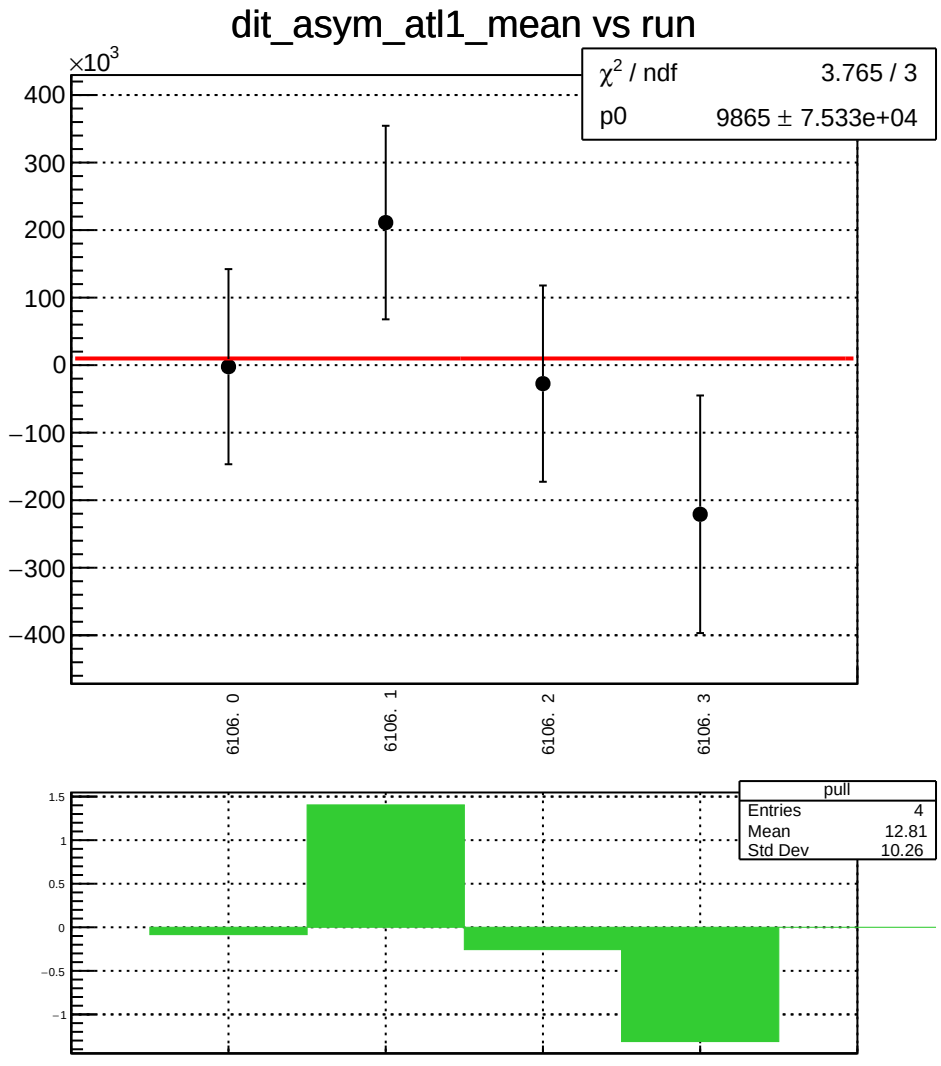

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 1.003 / 3
p0 1001± 1.284e+04
40000
20000
0
−20000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −0.5977
Std Dev 8.623
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.005482
Std Dev 0.5008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

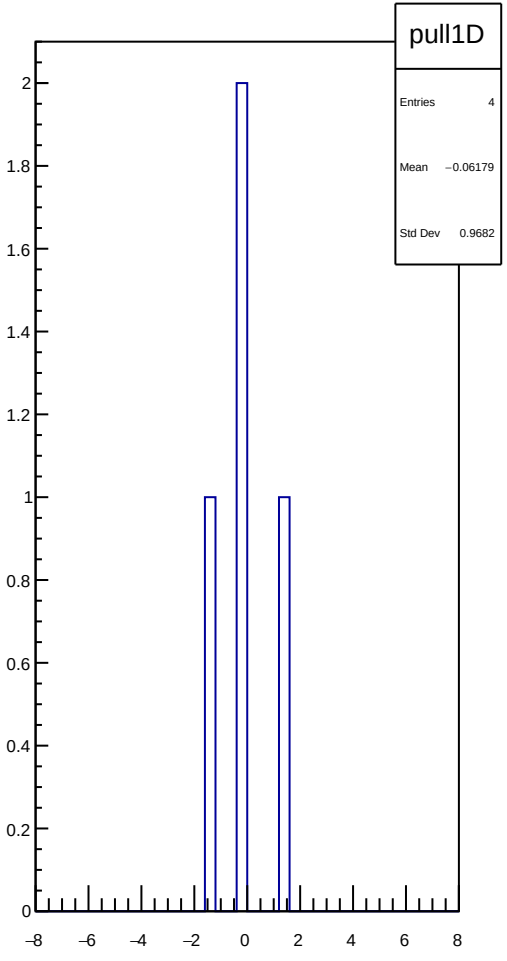

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 140.5 / 3
p0 2450 ± 9.079
2600
2550
2500
2450
2400
2350
6106. 0
6106. 1
6106. 2
6106. 3

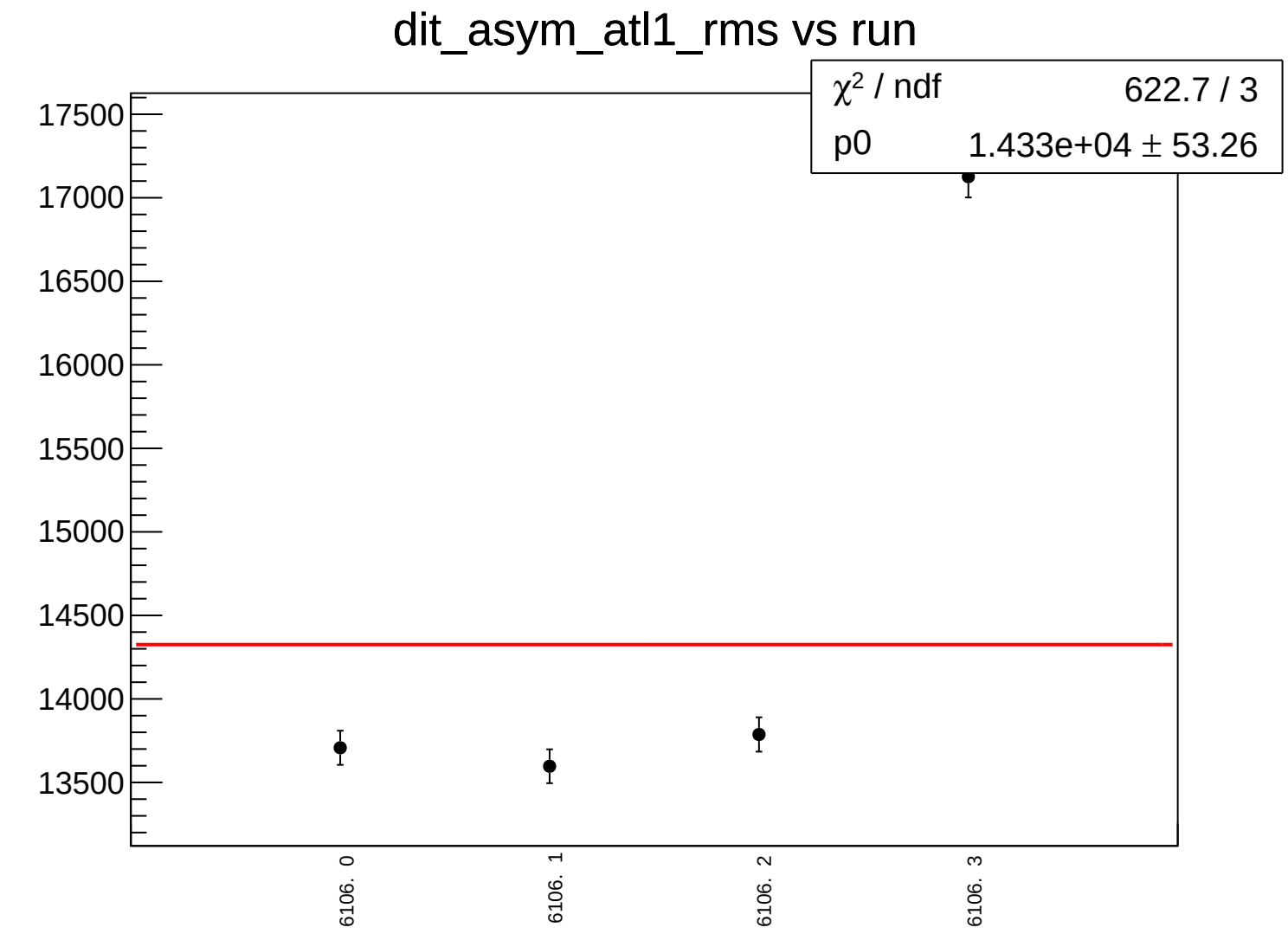

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 0.7136 / 3
p0 882.8 ± 2.684e+04
100
80
60
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 19.91
Std Dev 17.39
0.6
0.4
0.2
0
−0.2
−0.4

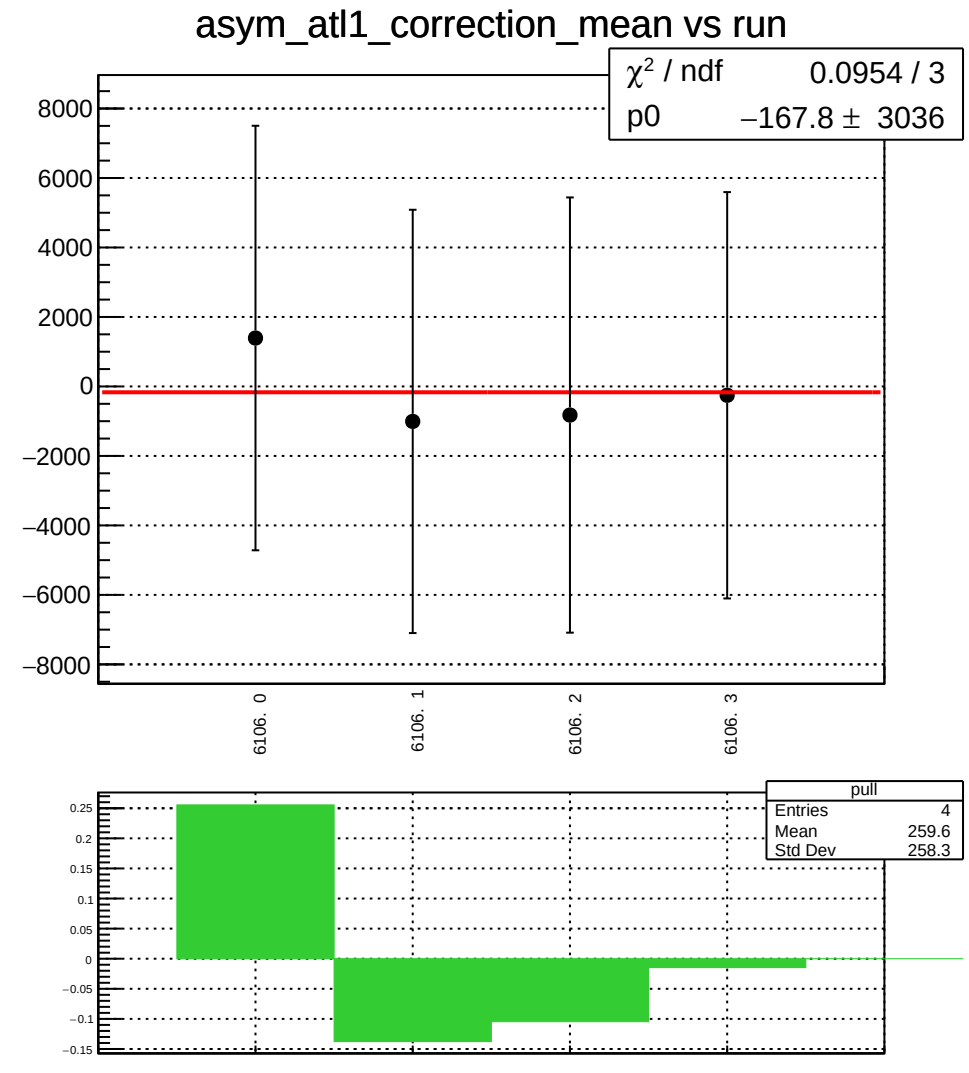

pull1D
Entries 4
Mean −0.005559
Std Dev 0.4223
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

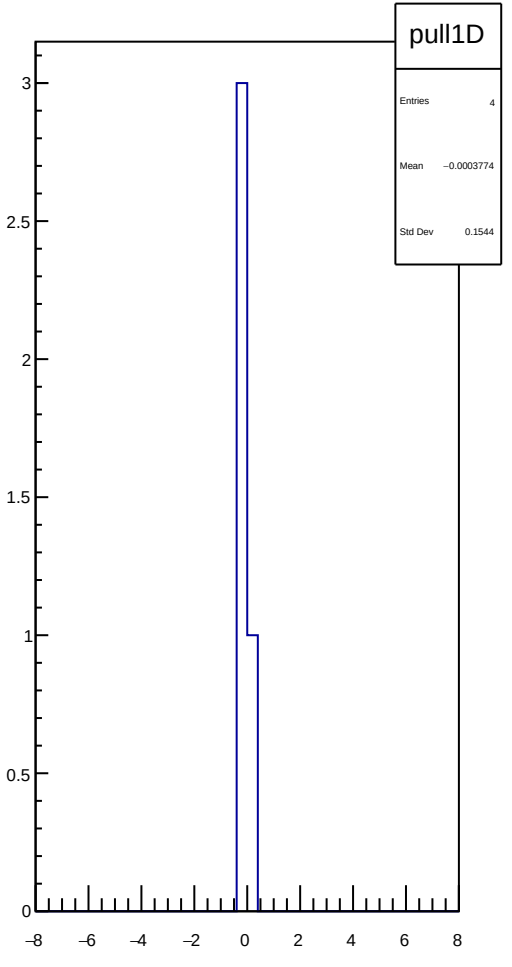

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 158.9 / 3
p0 5121 ± 18.98
5600
5500
5400
5300
5200
5100
5000
4900
6106. 0
6106. 1
6106. 2
6106. 3

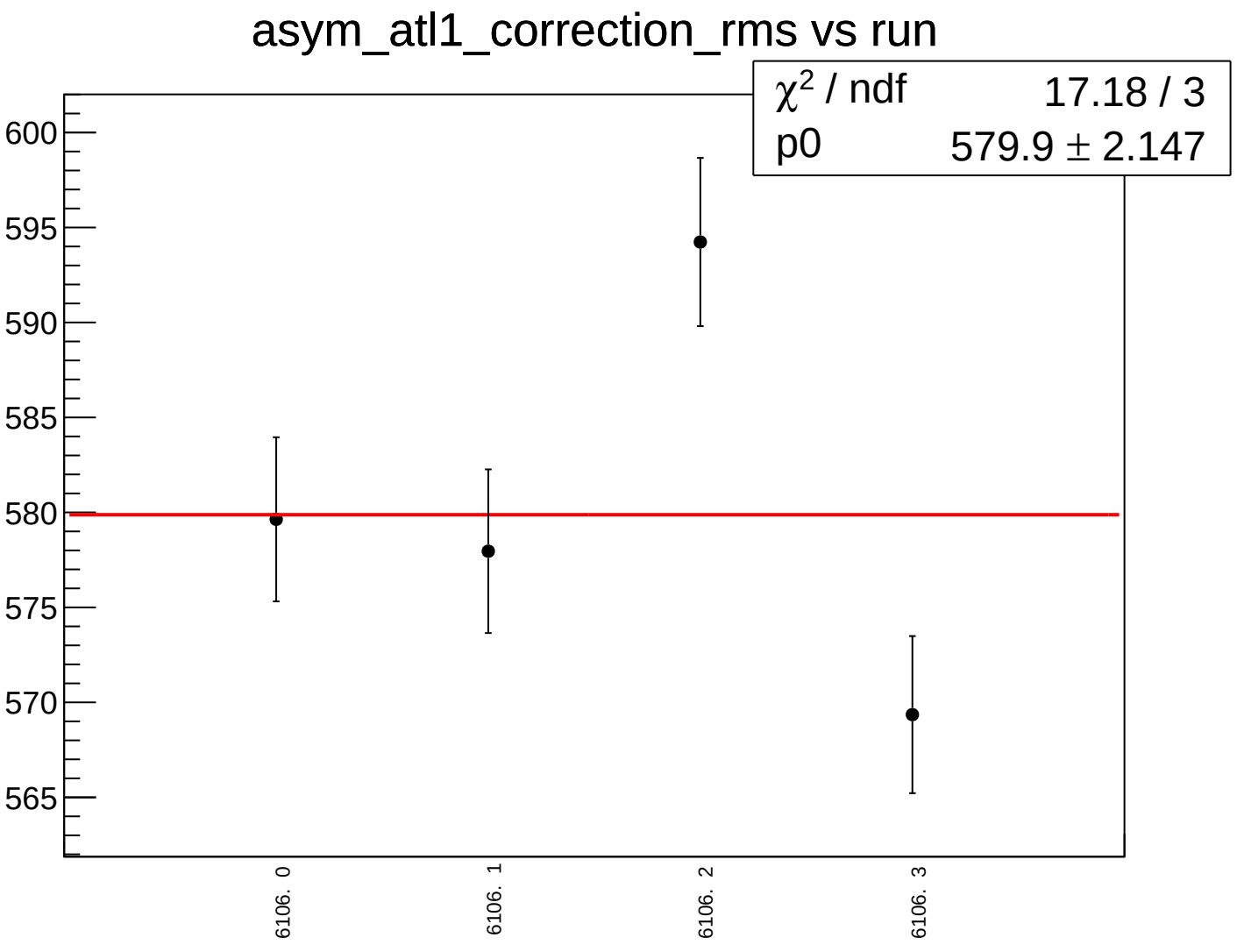

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 3.765 / 3
p0 9865 ± 7.533e+04
400
300
200
100
0
−100
−200
−300
−400
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 12.81
Std Dev 10.26
1.5
1
0.5
0
−0.5
−1

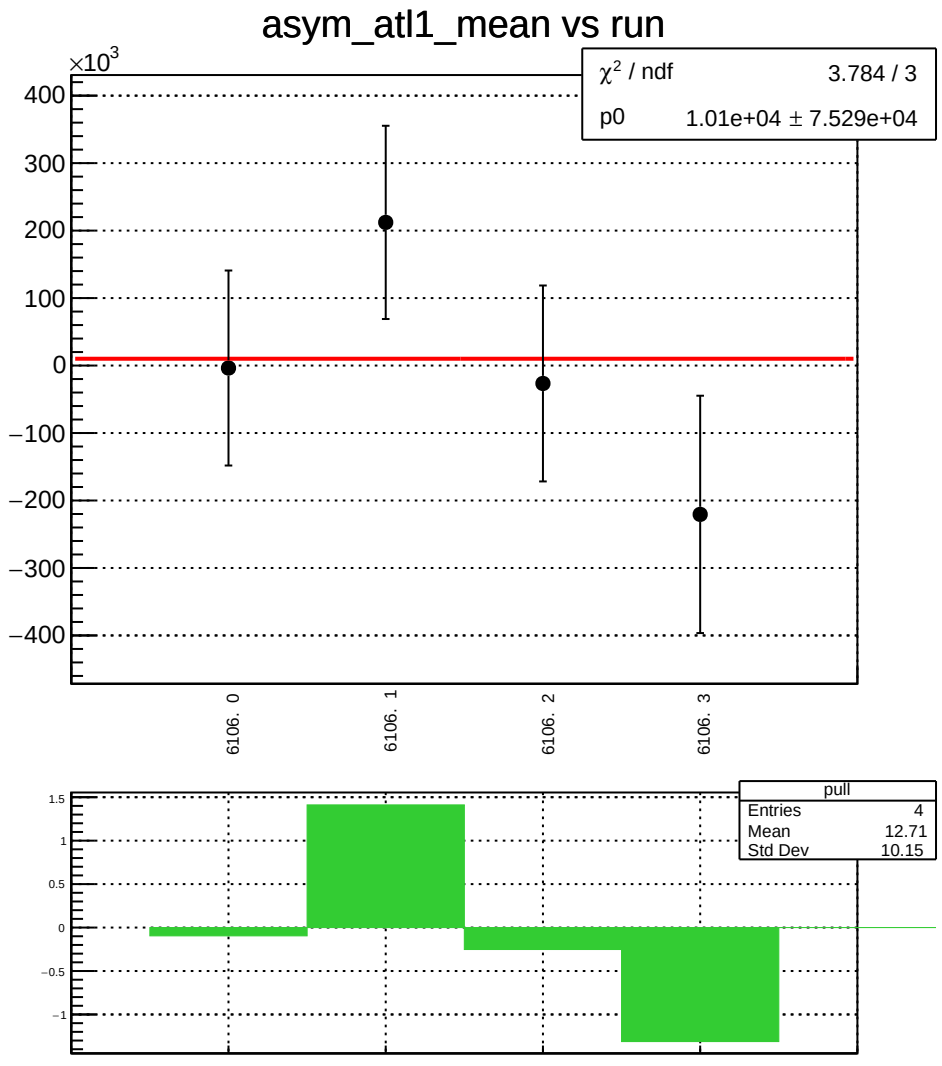

pull1D
Entries 4
Mean −0.06179
Std Dev 0.9682
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

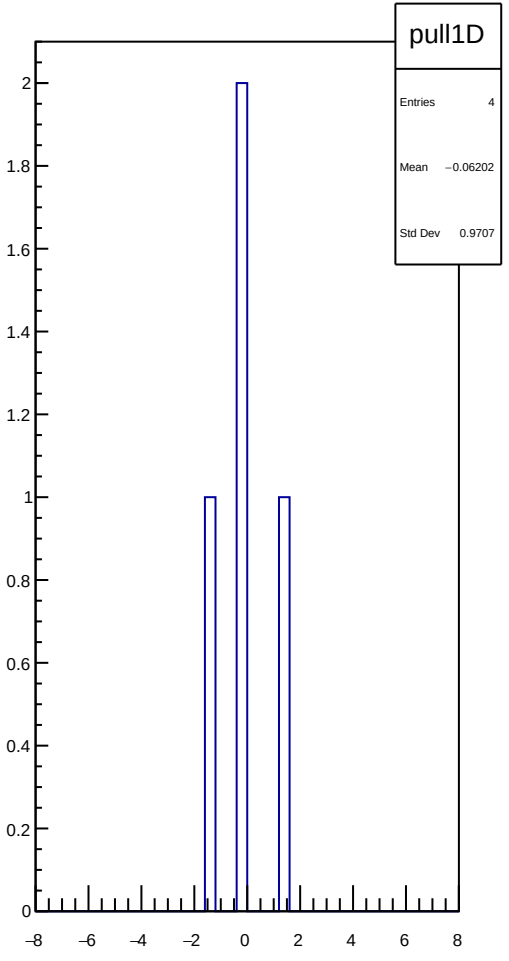

dit_asym_atl1_rms vs run
χ² / ndf 622.7 / 3
p0 1.433e+04 ± 53.26
17500
17000
16500
16000
15500
15000
14500
14000
13500
6106. 0
6106. 1
6106. 2
6106. 3

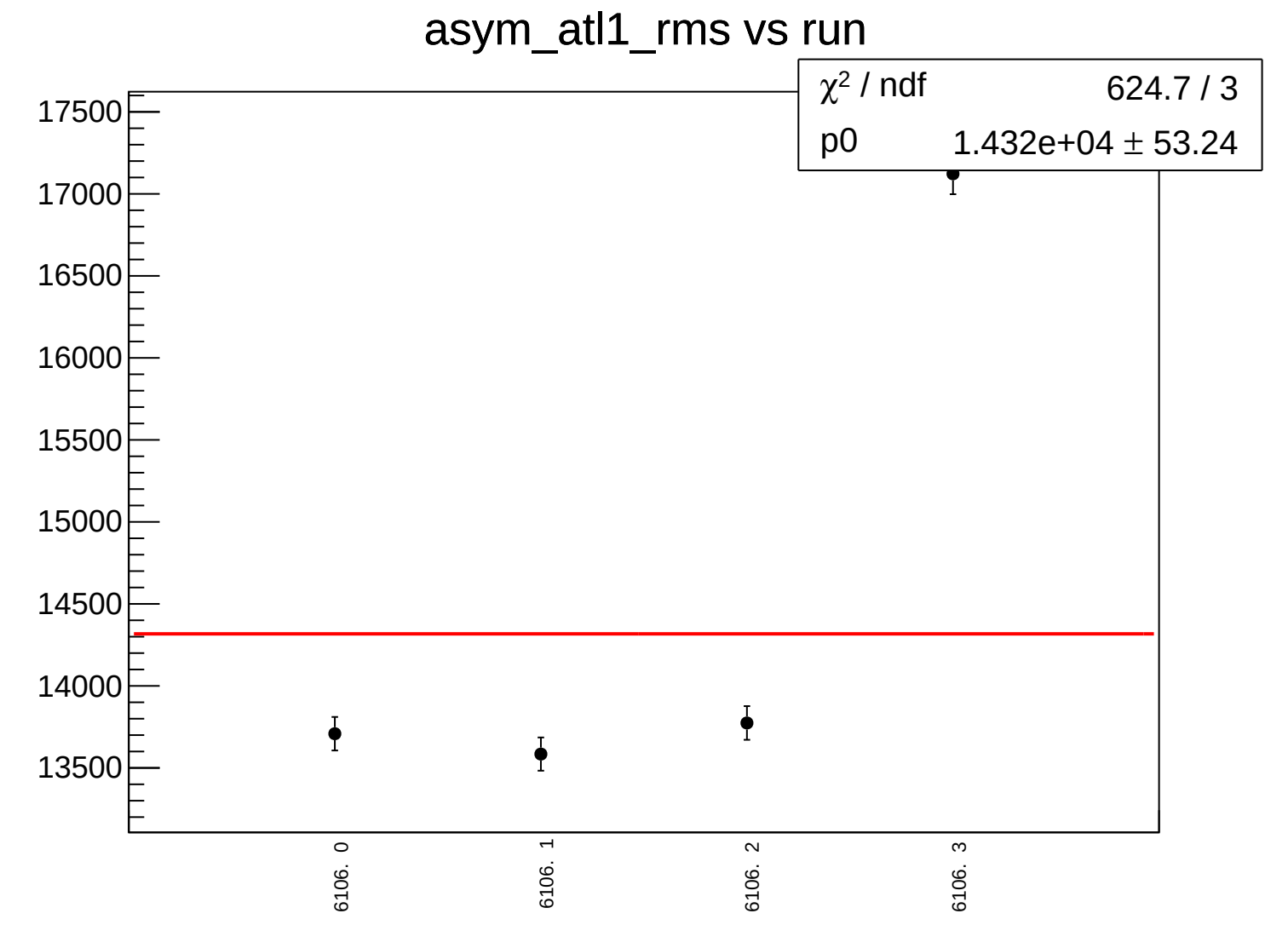

asym_atl1_correction_mean vs run
χ² / ndf 0.0954 / 3
p0 −167.8 ± 3036
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 259.6
Std Dev 258.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

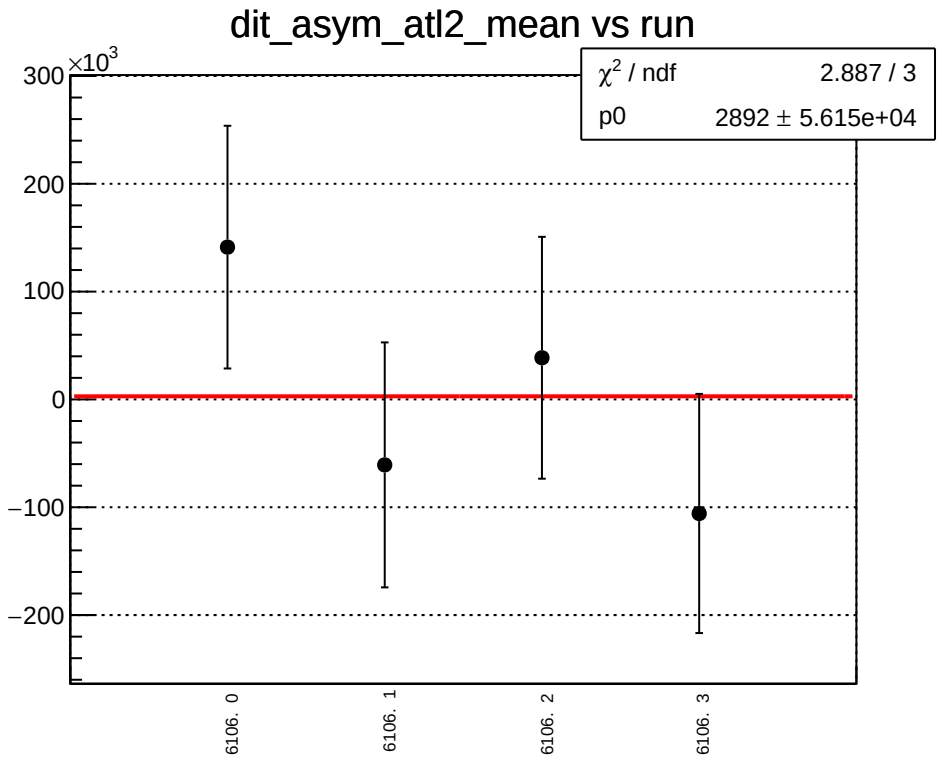

pull1D
Entries 4
Mean −0.0003774
Std Dev 0.1544
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

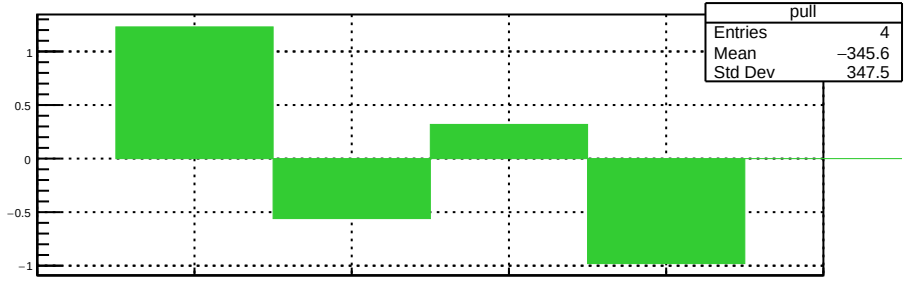

asym_atl1_correction_rms vs run
χ² / ndf 17.18 / 3
p0 579.9 ± 2.147
600
595
590
585
580
575
570
565
6106. 0
6106. 1
6106. 2
6106. 3

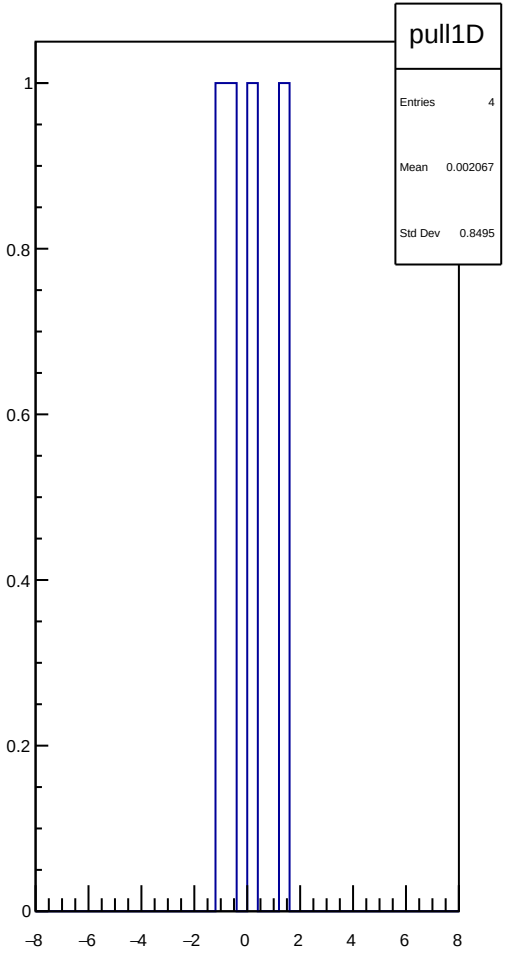

asym_atl1_mean vs run
×10^3
χ² / ndf 3.784 / 3
p0 1.01e+04 ± 7.529e+04
400
300
200
100
0
−100
−200
−300
−400
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 12.71
Std Dev 10.15
1.5
1
0.5
0
−0.5
−1

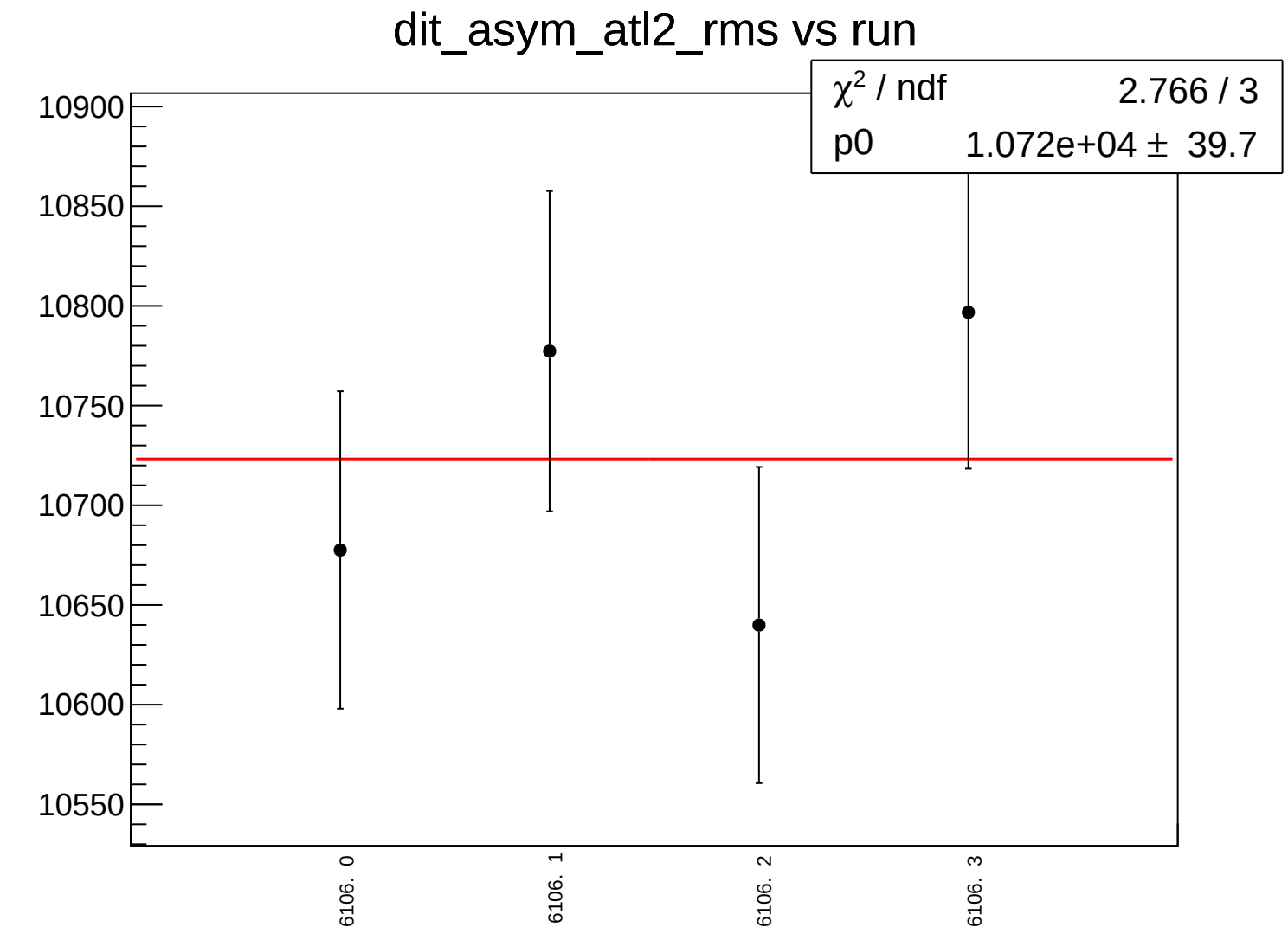

pull1D
Entries 4
Mean −0.06202
Std Dev 0.9707
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

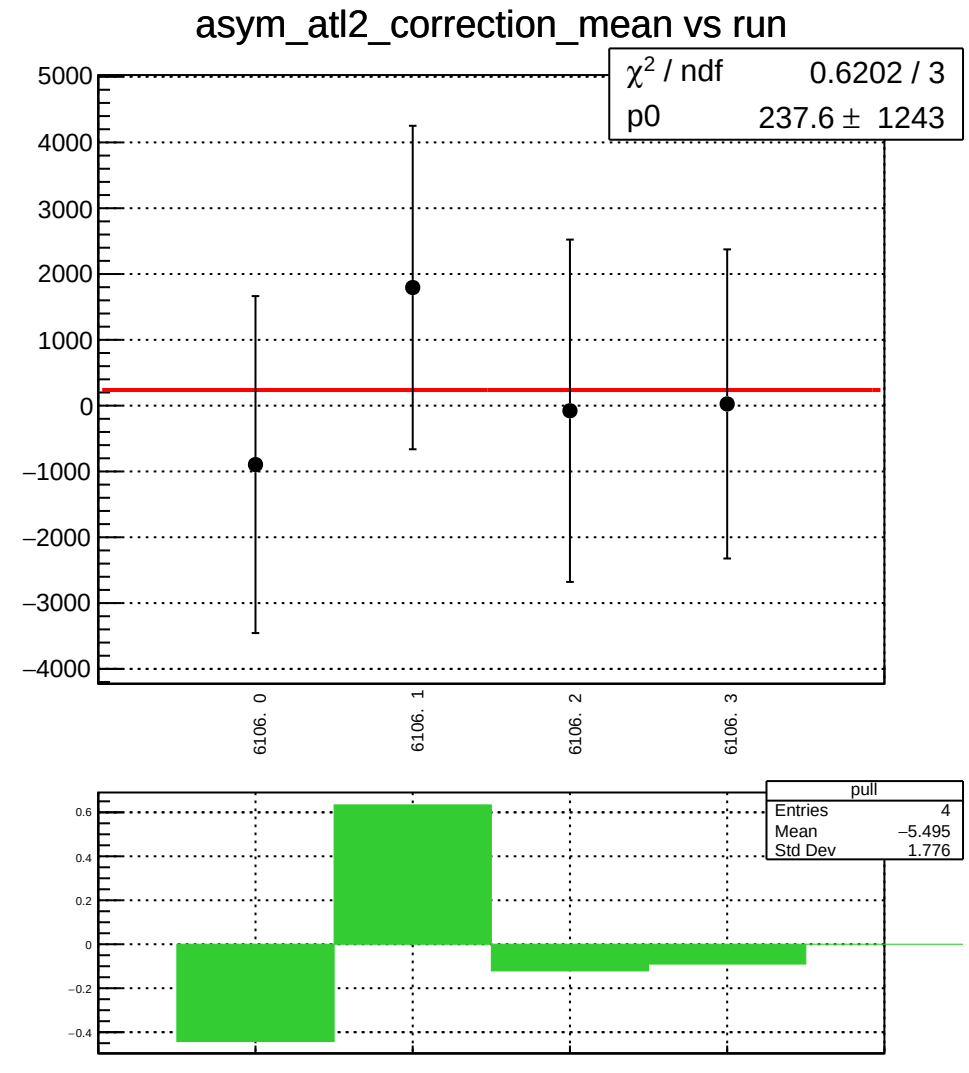

asym_atl1_rms vs run
χ² / ndf 624.7 / 3
p0 1.432e+04 ± 53.24
17500
17000
16500
16000
15500
15000
14500
14000
13500
6106. 0
6106. 1
6106. 2
6106. 3

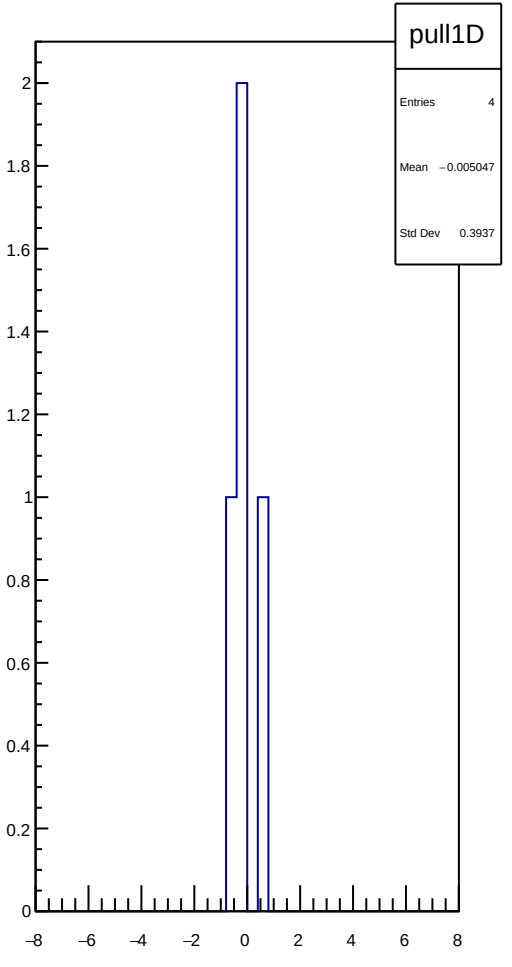

dit_asym_atl2_mean vs run
χ² / ndf 2.887 / 3
p0 2892 ± 5.615e+04
×10³
300
200
100
0
−100
−200
6106. 0
6106. 1
6106. 2
6106. 3

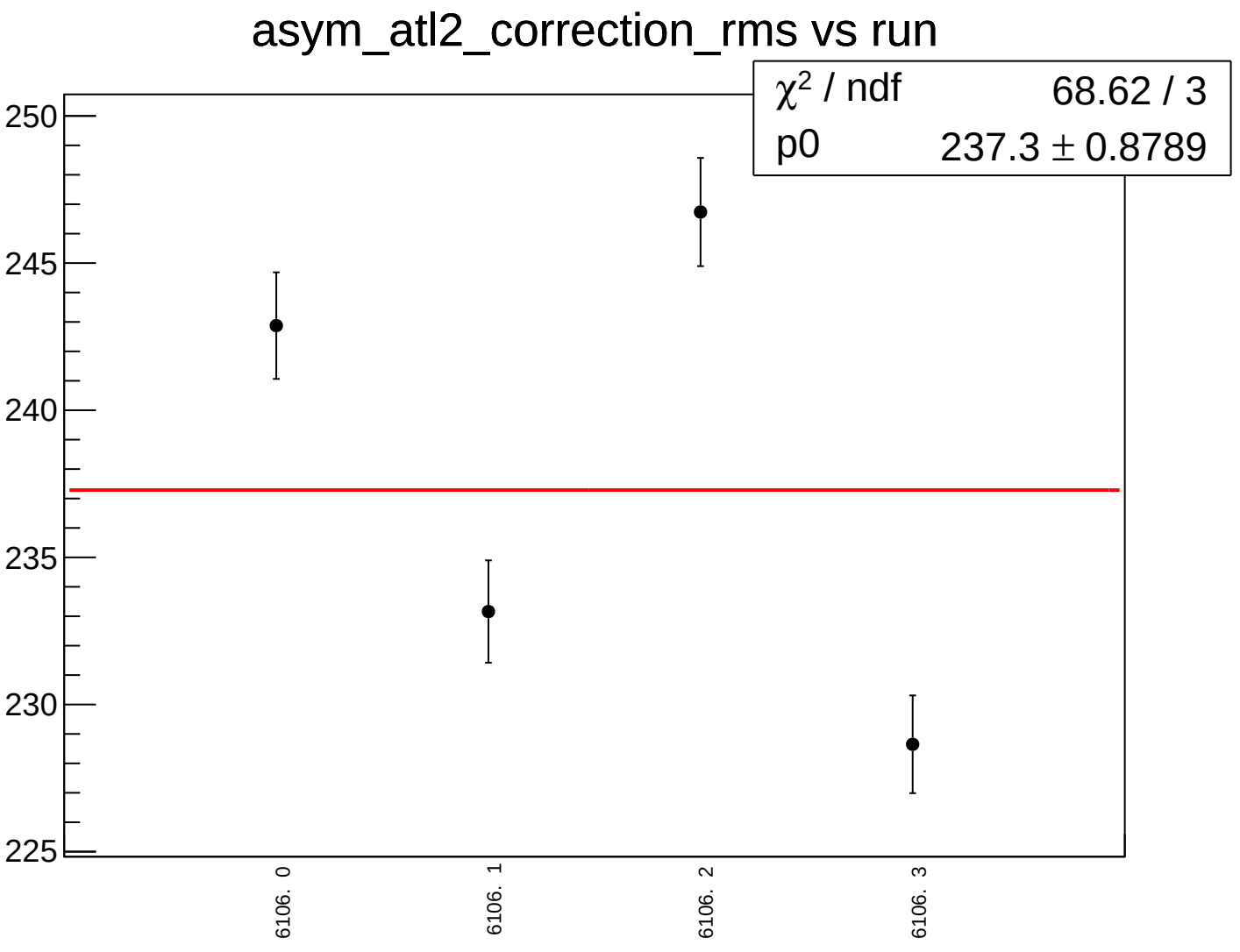

pull
Entries 4
Mean −345.6
Std Dev 347.5
1
0.5
0
−0.5
−1

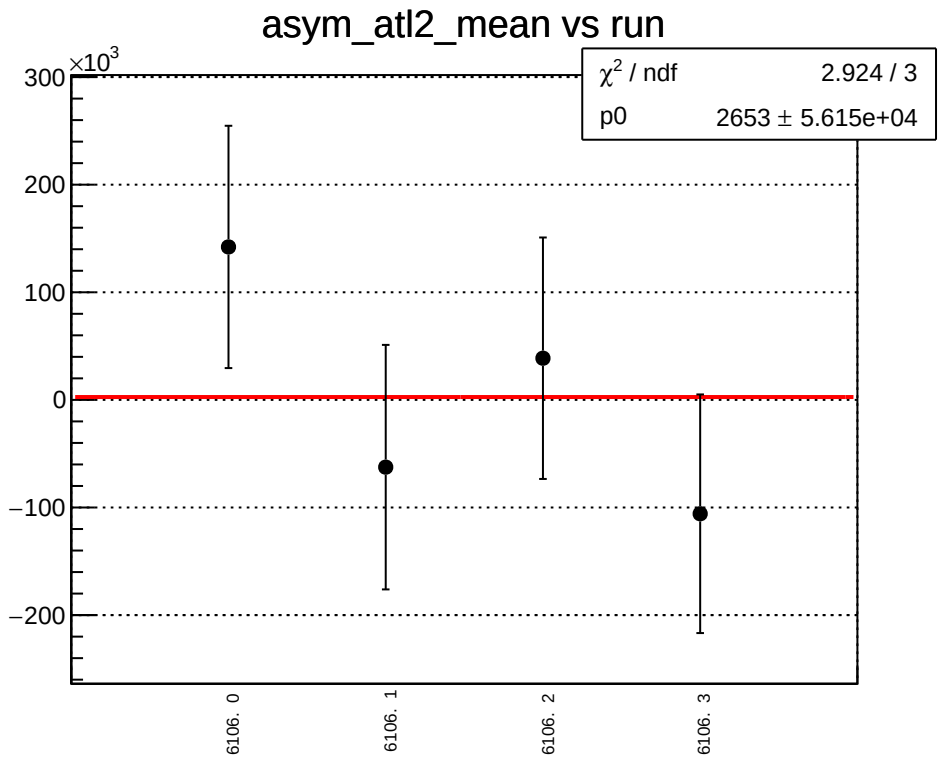

pull1D
Entries 4
Mean 0.002067
Std Dev 0.8495
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

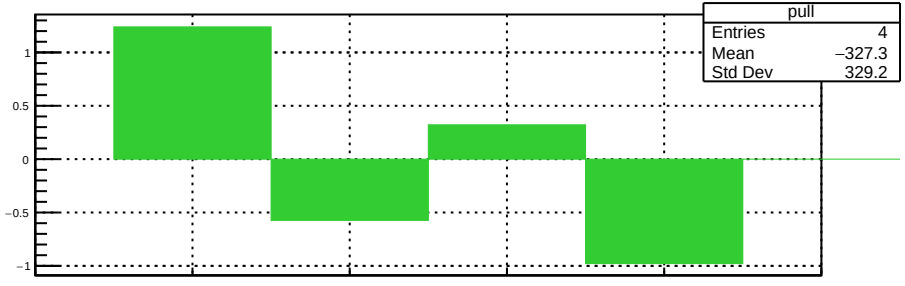

dit_asym_atl2_rms vs run
χ² / ndf 2.766 / 3
p0 1.072e+04 ± 39.7
10900
10850
10800
10750
10700
10650
10600
10550
6106. 0
6106. 1
6106. 2
6106. 3

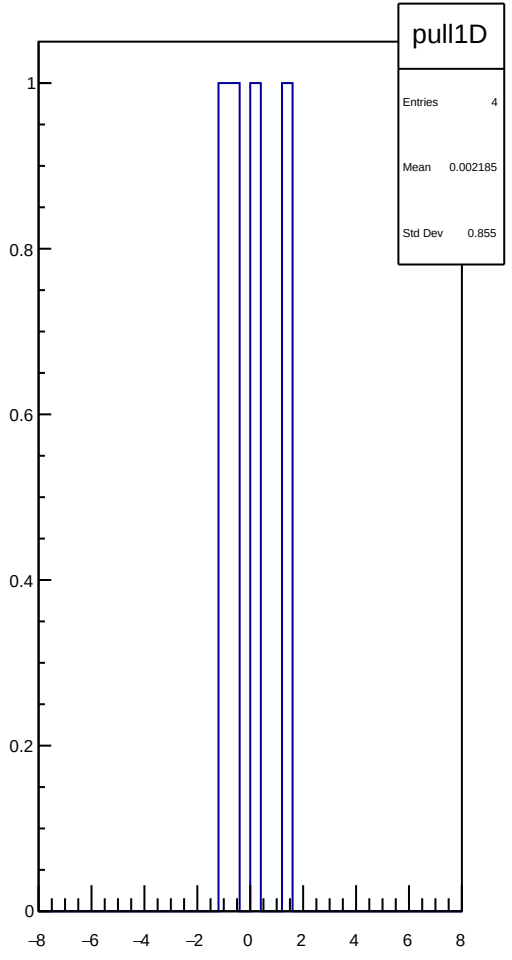

asym_atl2_correction_mean vs run
χ² / ndf 0.6202 / 3
p0 237.6 ± 1243
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −5.495
Std Dev 1.776
0.6
0.4
0.2
0
−0.2
−0.4

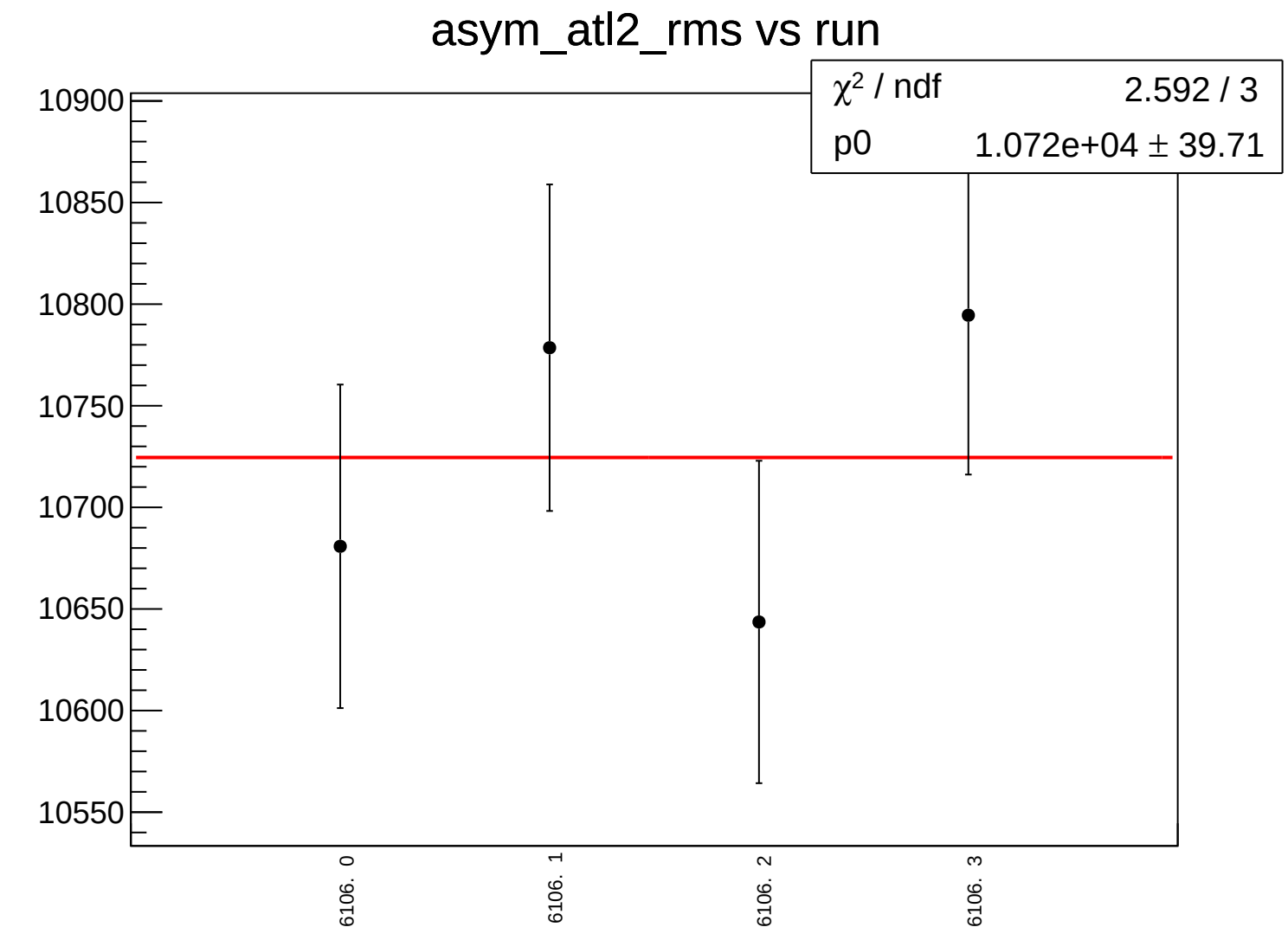

pull1D
Entries 4
Mean −0.005047
Std Dev 0.3937
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

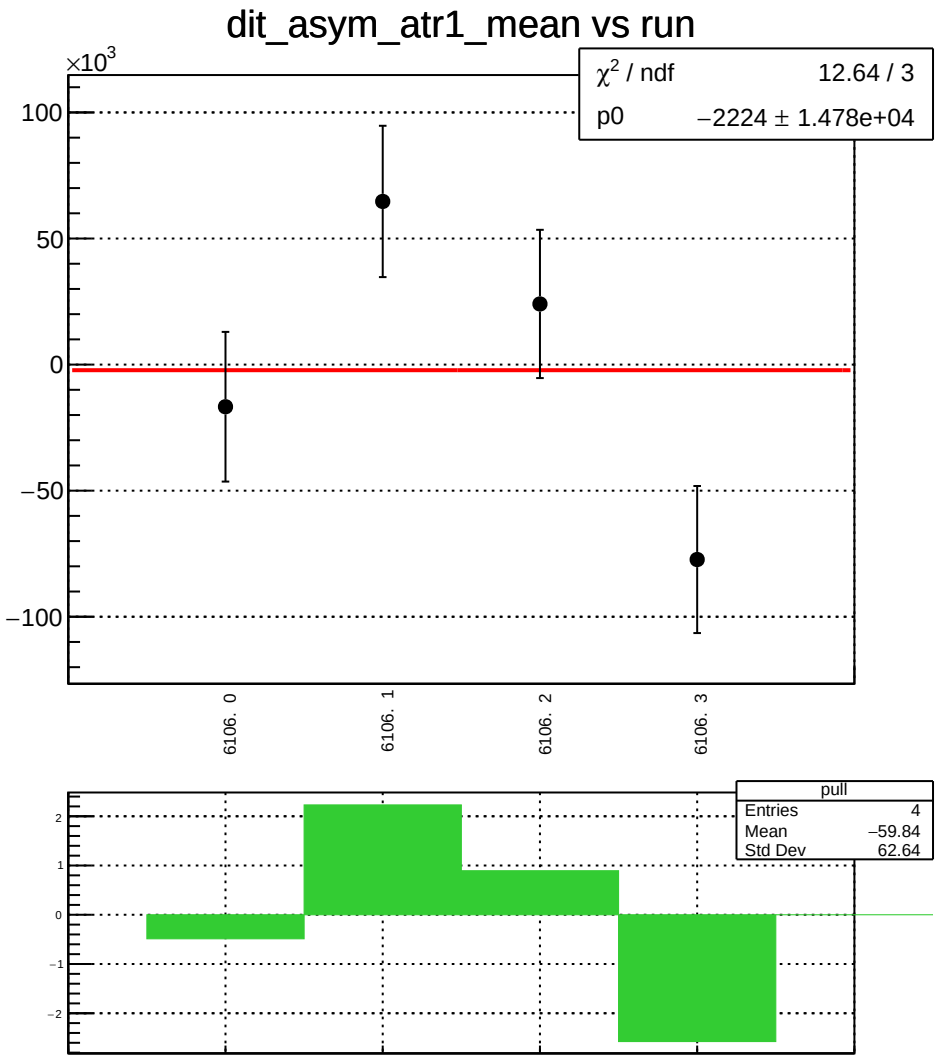

asym_atl2_correction_rms vs run
χ² / ndf 68.62 / 3
p0 237.3 ± 0.8789
250
245
240
235
230
225
6106. 0
6106. 1
6106. 2
6106. 3

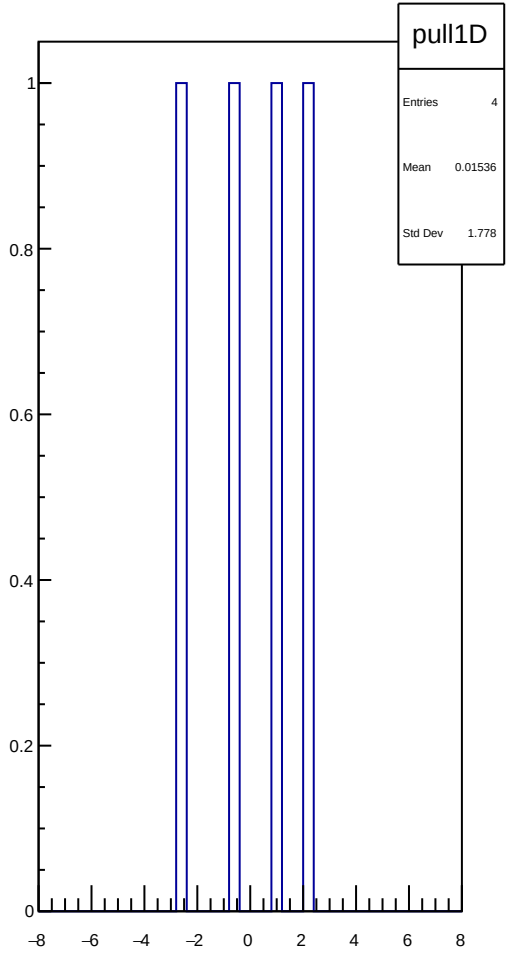

asym_atl2_mean vs run
×10^3
χ² / ndf 2.924 / 3
p0 2653 ± 5.615e+04
300
200
100
0
−100
−200
6106. 0
6106. 1
6106. 2
6106. 3

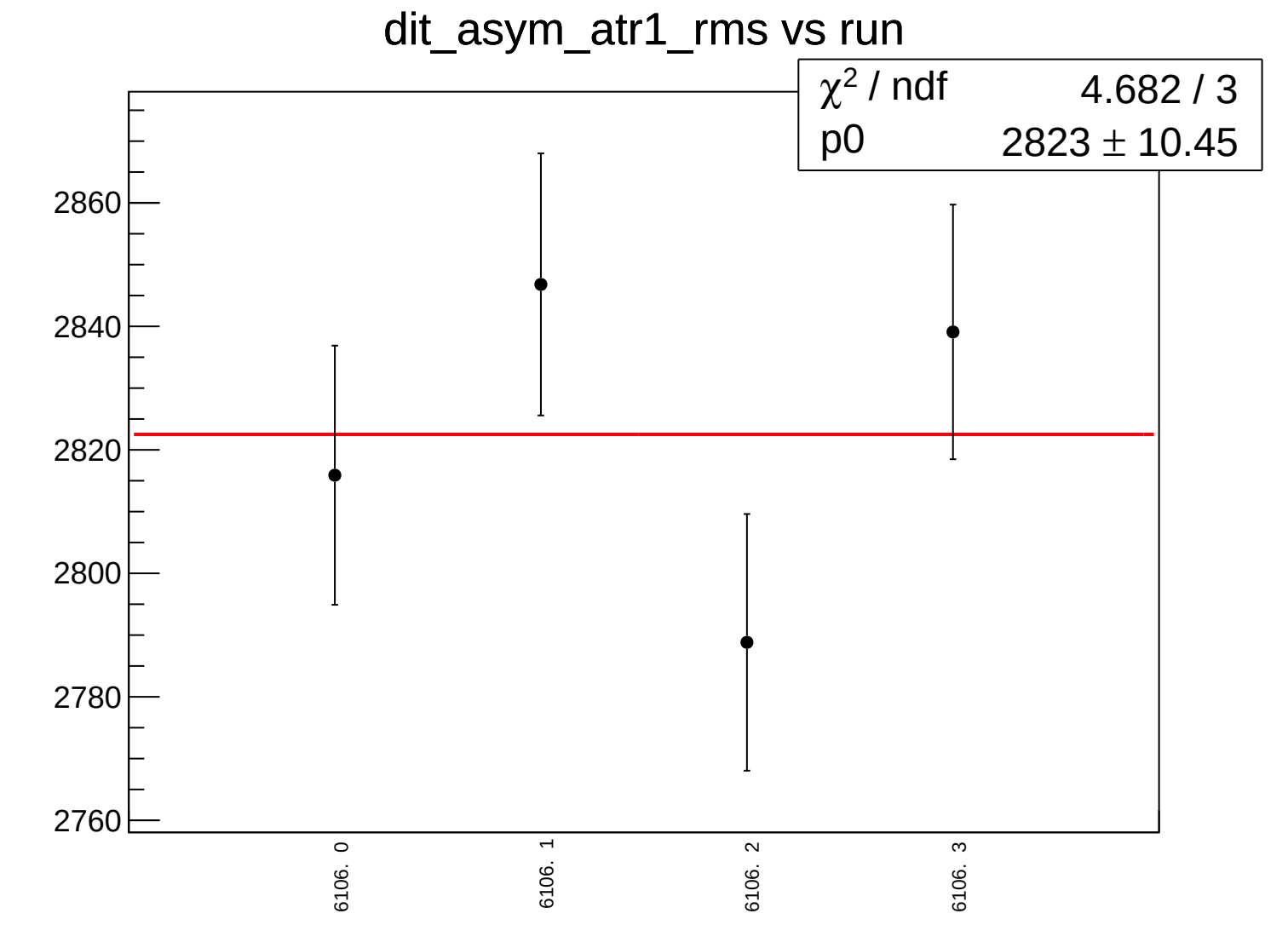

pull
Entries 4
Mean −327.3
Std Dev 329.2
1
0.5
0
−0.5
−1

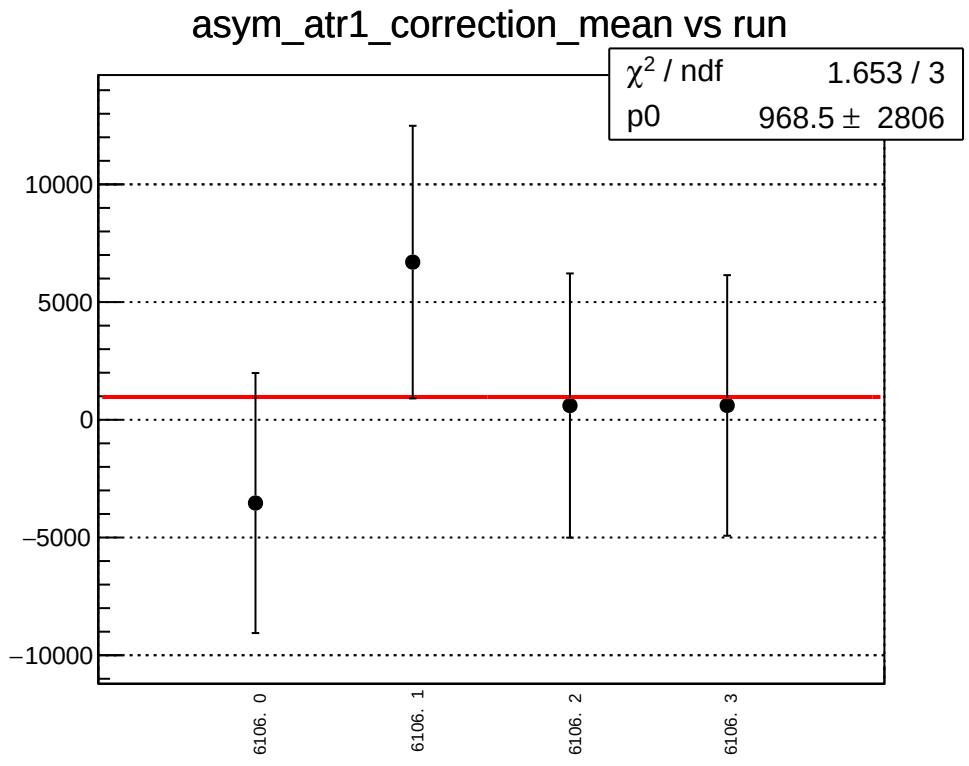

pull1D
Entries 4
Mean 0.002185
Std Dev 0.855
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

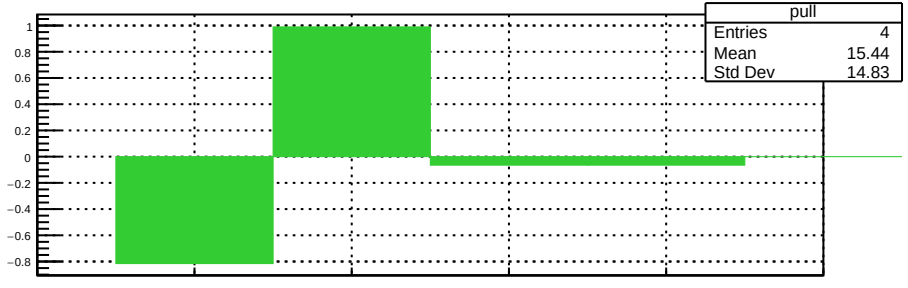

asym_atl2_rms vs run
χ² / ndf 2.592 / 3
p0 1.072e+04 ± 39.71
10900
10850
10800
10750
10700
10650
10600
10550
6106. 0
6106. 1
6106. 2
6106. 3

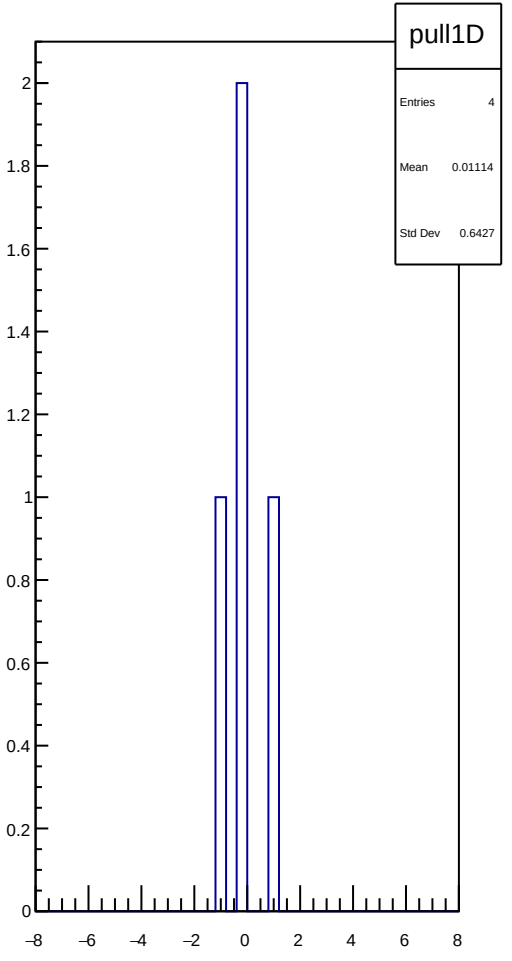

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 12.64 / 3
p0 −2224 ± 1.478e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −59.84
Std Dev 62.64
2
1
0
−1
−2

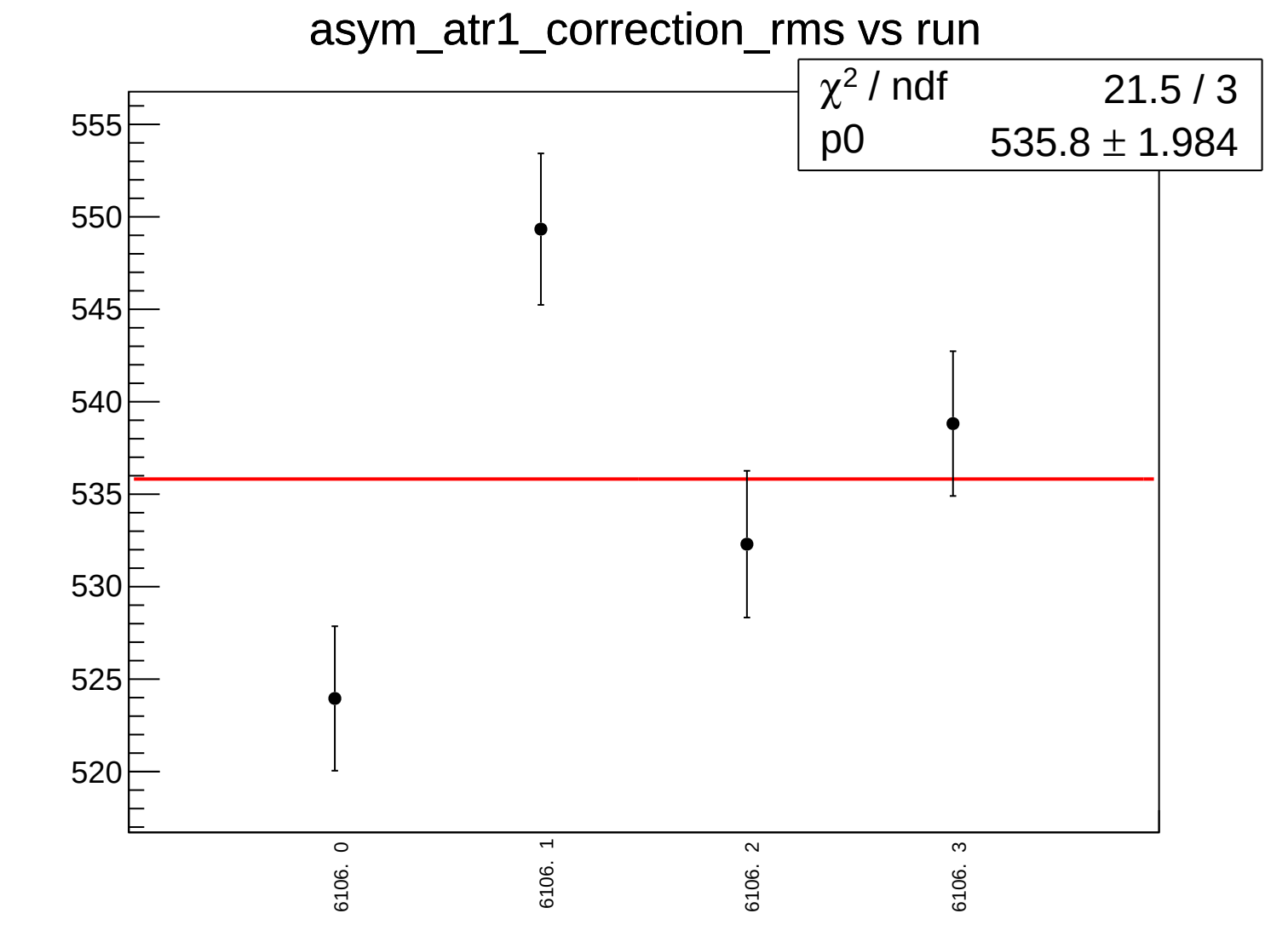

pull1D
Entries 4
Mean 0.01536
Std Dev 1.778
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

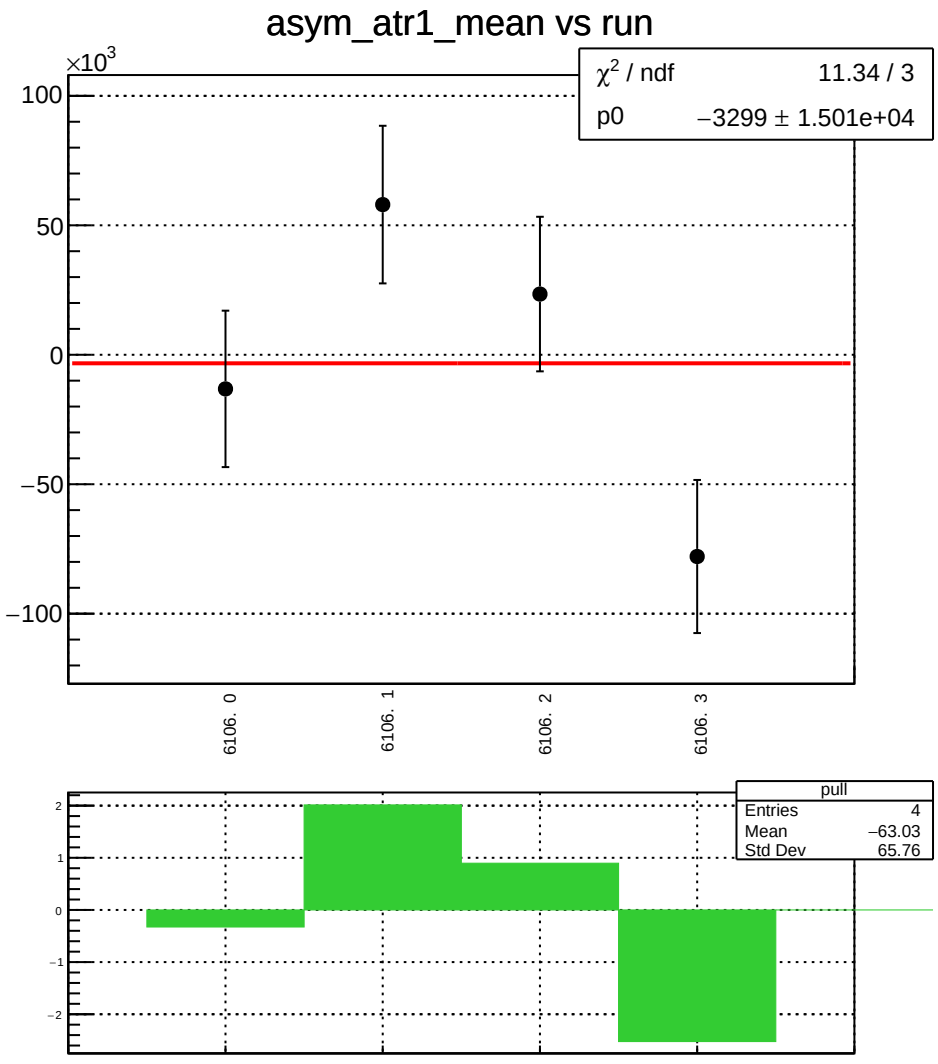

dit_asym_atr1_rms vs run
χ² / ndf 4.682 / 3
p0 2823 ± 10.45
2860
2840
2820
2800
2780
2760
6106. 0
6106. 1
6106. 2
6106. 3

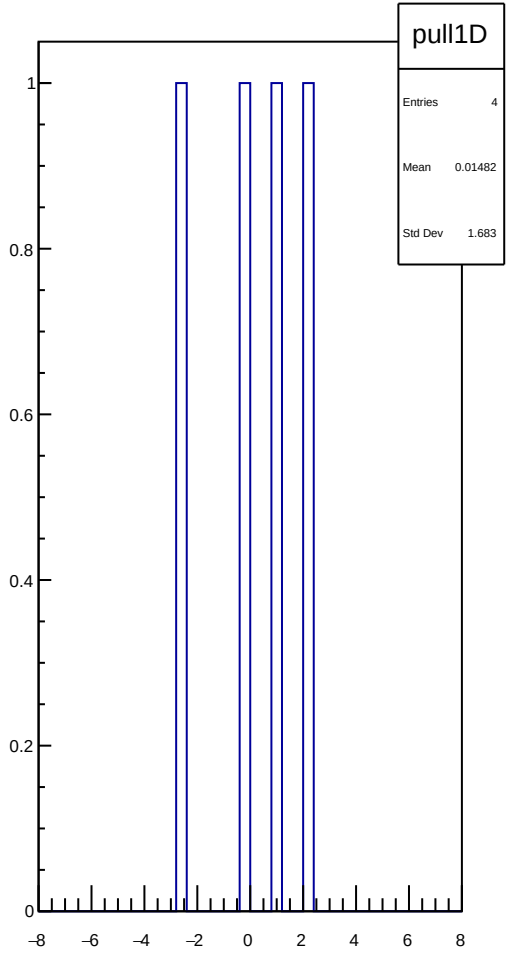

asym_atr1_correction_mean vs run
χ² / ndf 1.653 / 3
p0 968.5 ± 2806
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3

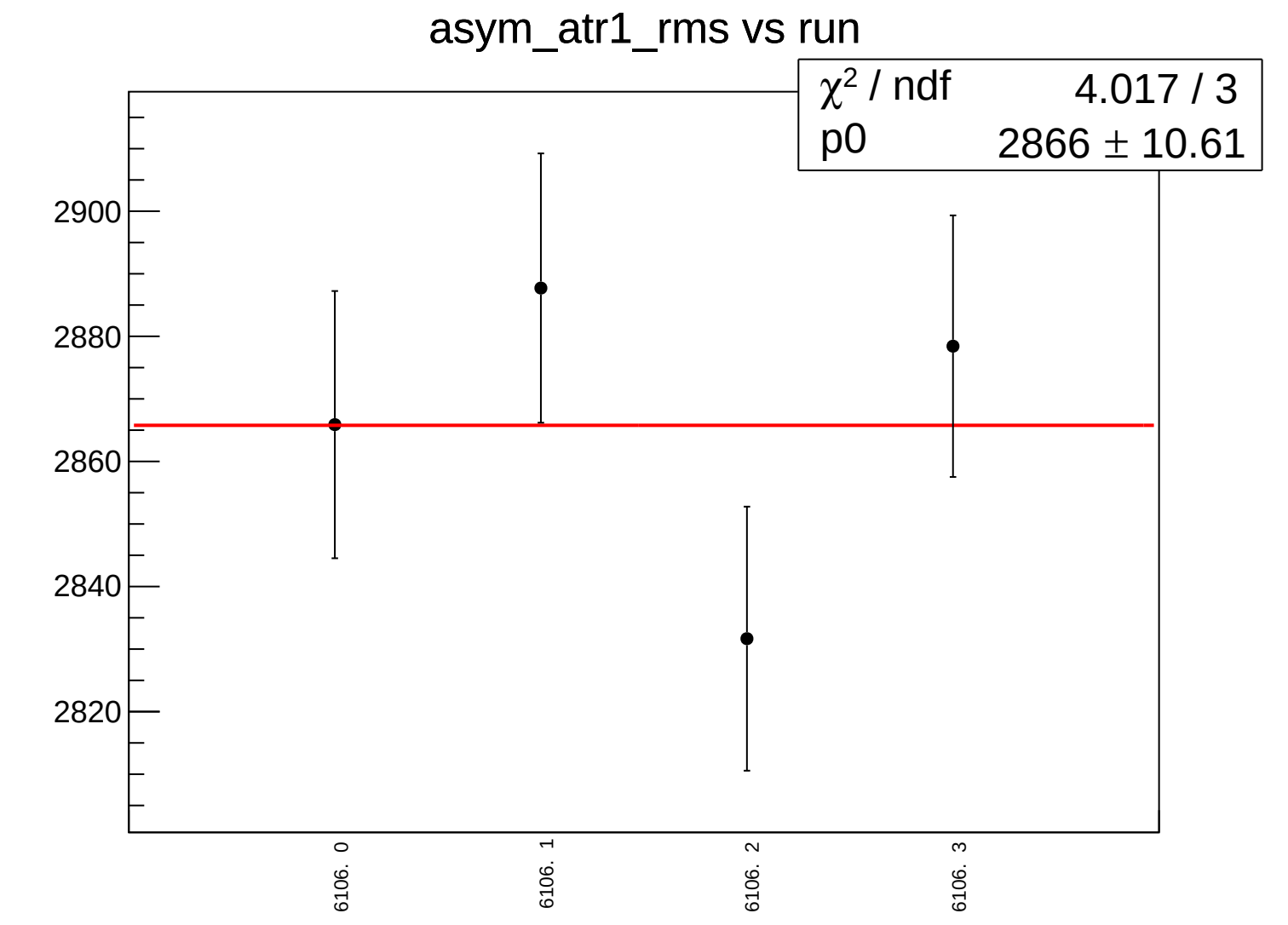

pull
Entries 4
Mean 15.44
Std Dev 14.83
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

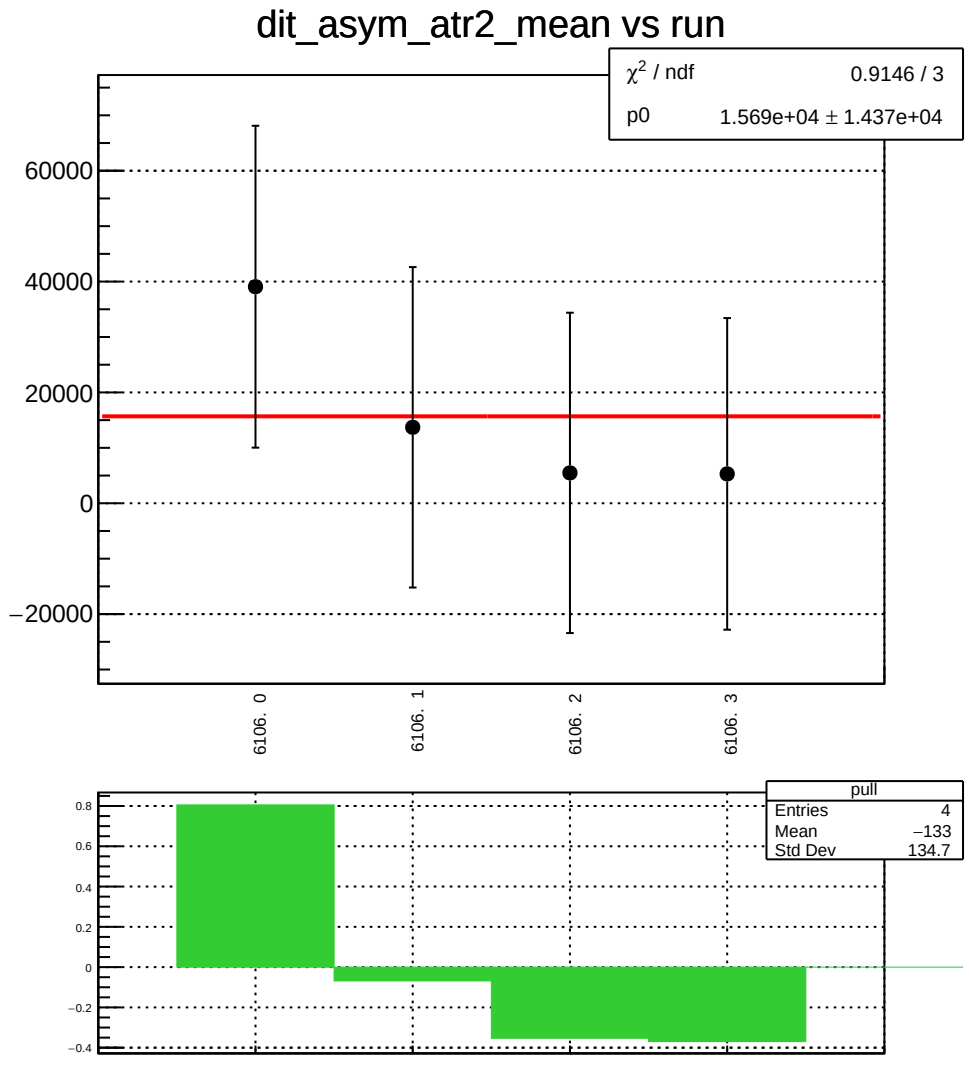

pull1D
Entries 4
Mean 0.01114
Std Dev 0.6427
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

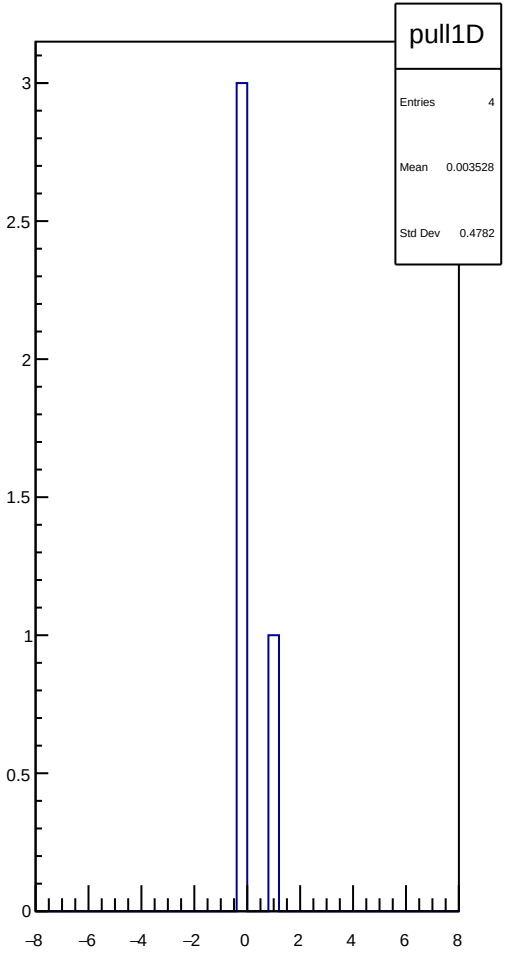

asym_atr1_correction_rms vs run
χ² / ndf 21.5 / 3
p0 535.8 ± 1.984
555
550
545
540
535
530
525
520
6106. 0
6106. 1
6106. 2
6106. 3

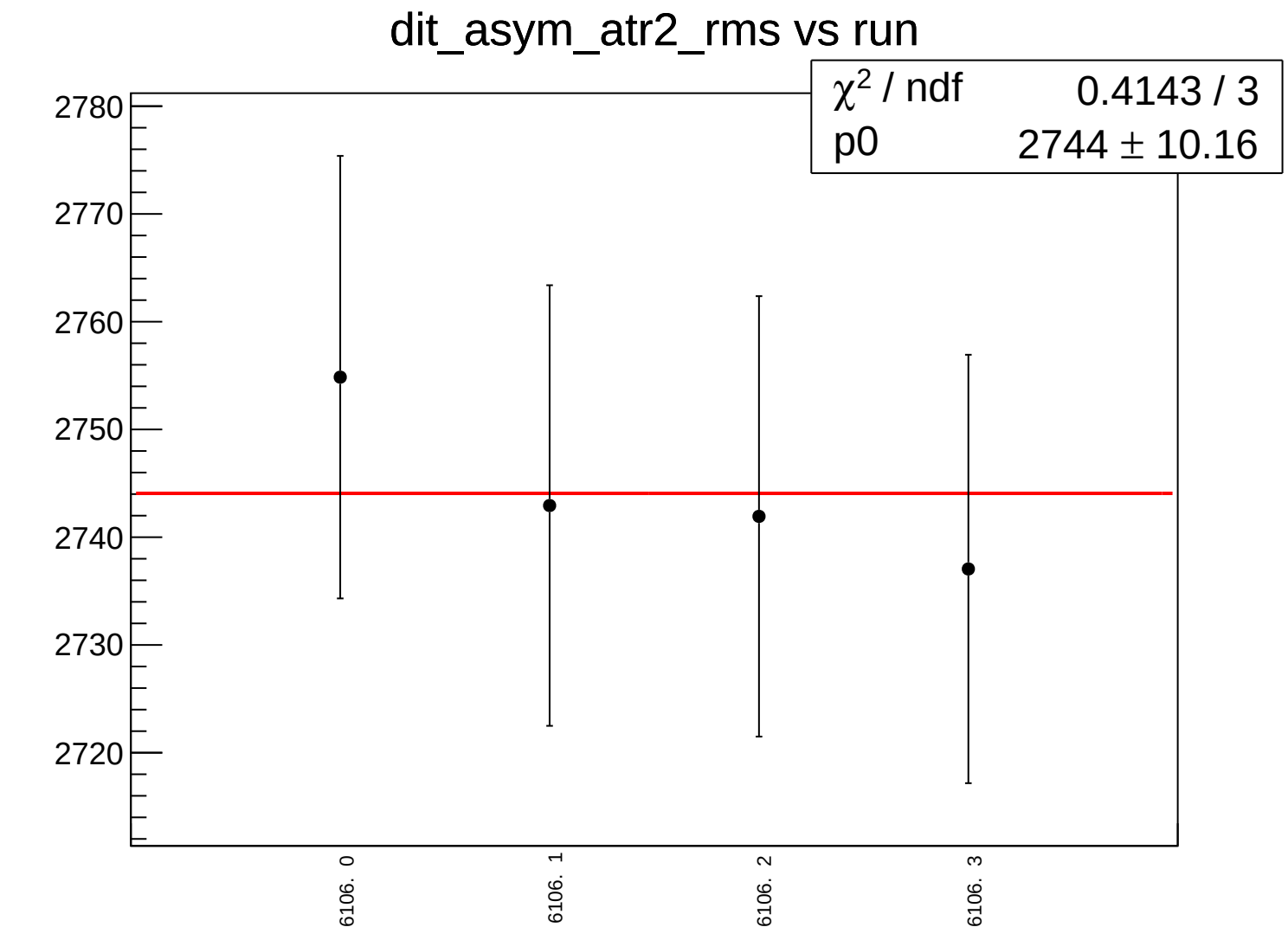

asym_atr1_mean vs run
×10^3
χ² / ndf 11.34 / 3
p0 −3299 ± 1.501e+04
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −63.03
Std Dev 65.76
2
1
0
−1
−2

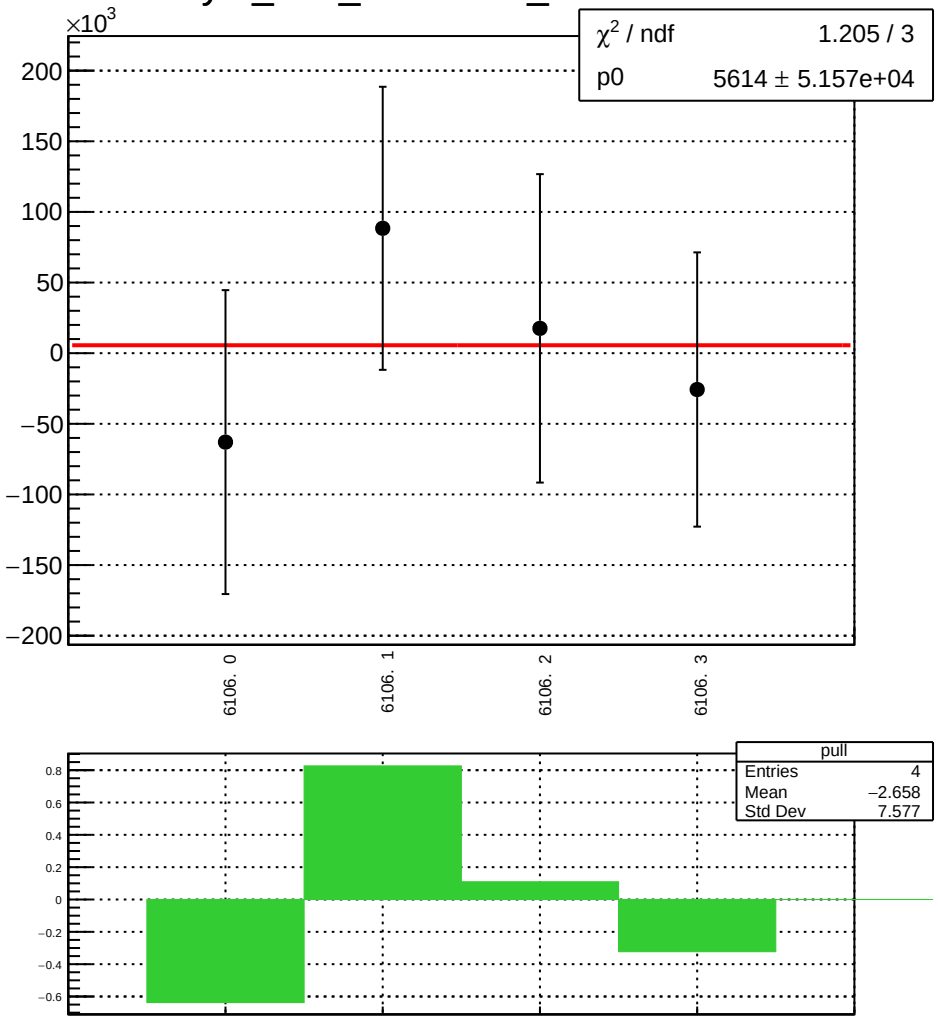

pull1D
Entries 4
Mean 0.01482
Std Dev 1.683
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

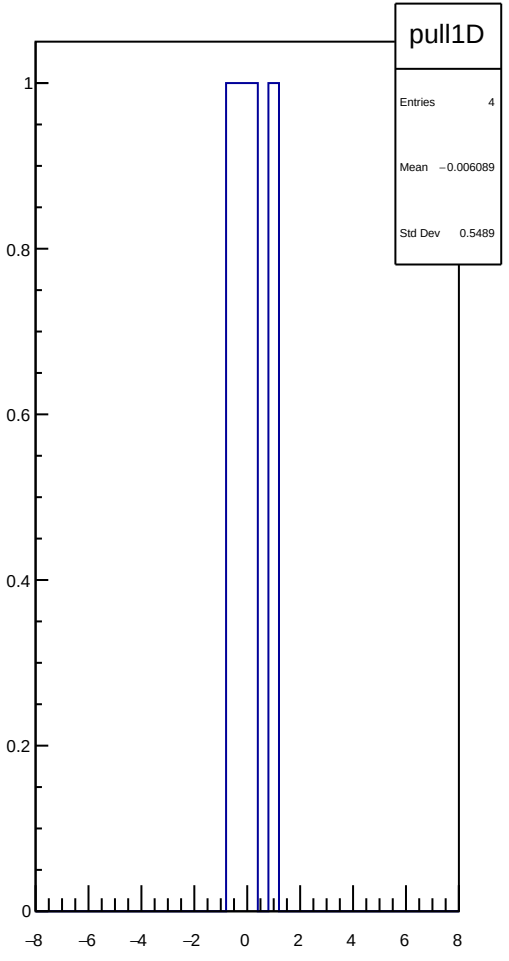

asym_atr1_rms vs run
χ² / ndf 4.017 / 3
p0 2866 ± 10.61
2900
2880
2860
2840
2820
6106. 0
6106. 1
6106. 2
6106. 3

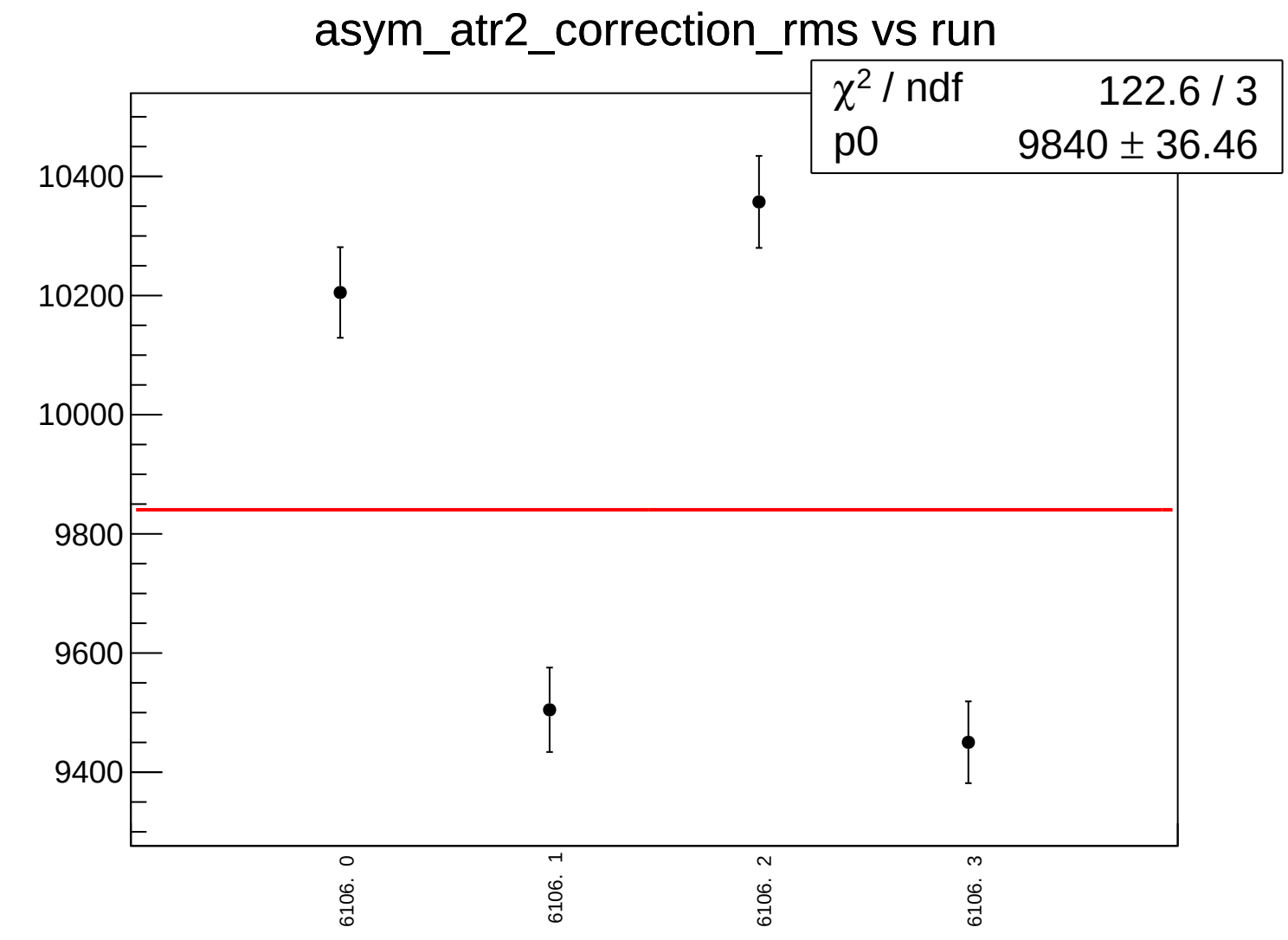

dit_asym_atr2_mean vs run
χ² / ndf 0.9146 / 3
p0 1.569e+04 ± 1.437e+04
60000
40000
20000
0
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −133
Std Dev 134.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4

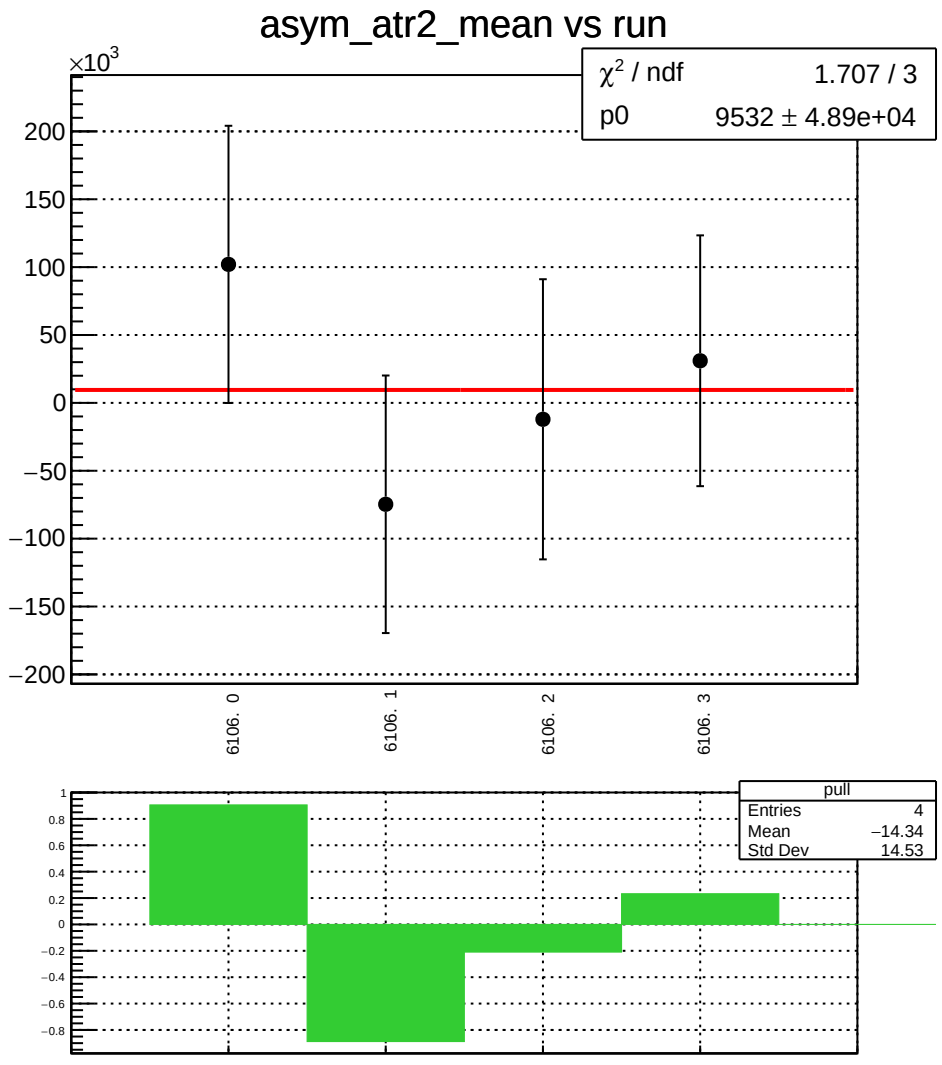

pull1D
Entries 4
Mean 0.003528
Std Dev 0.4782
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

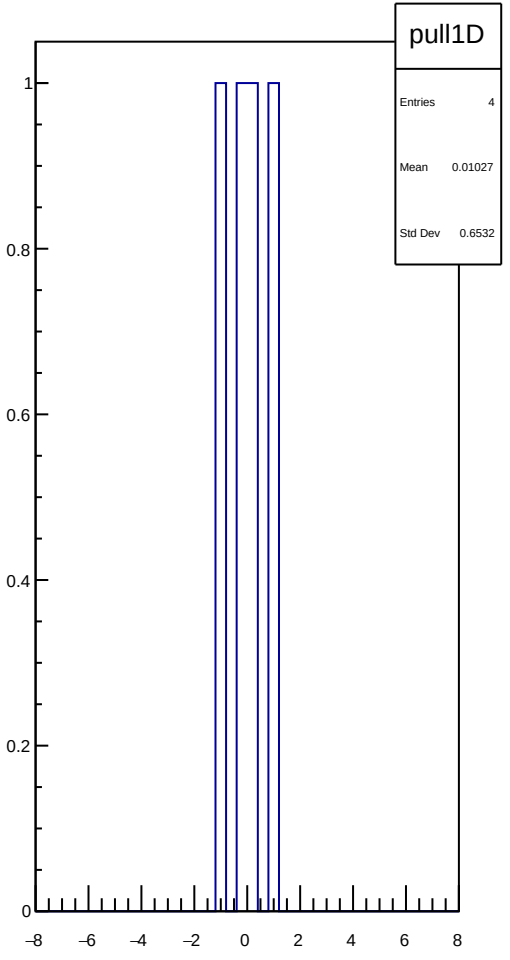

dit_asym_atr2_rms vs run
χ² / ndf 0.4143 / 3
p0 2744 ± 10.16
2780
2770
2760
2750
2740
2730
2720
6106. 0
6106. 1
6106. 2
6106. 3

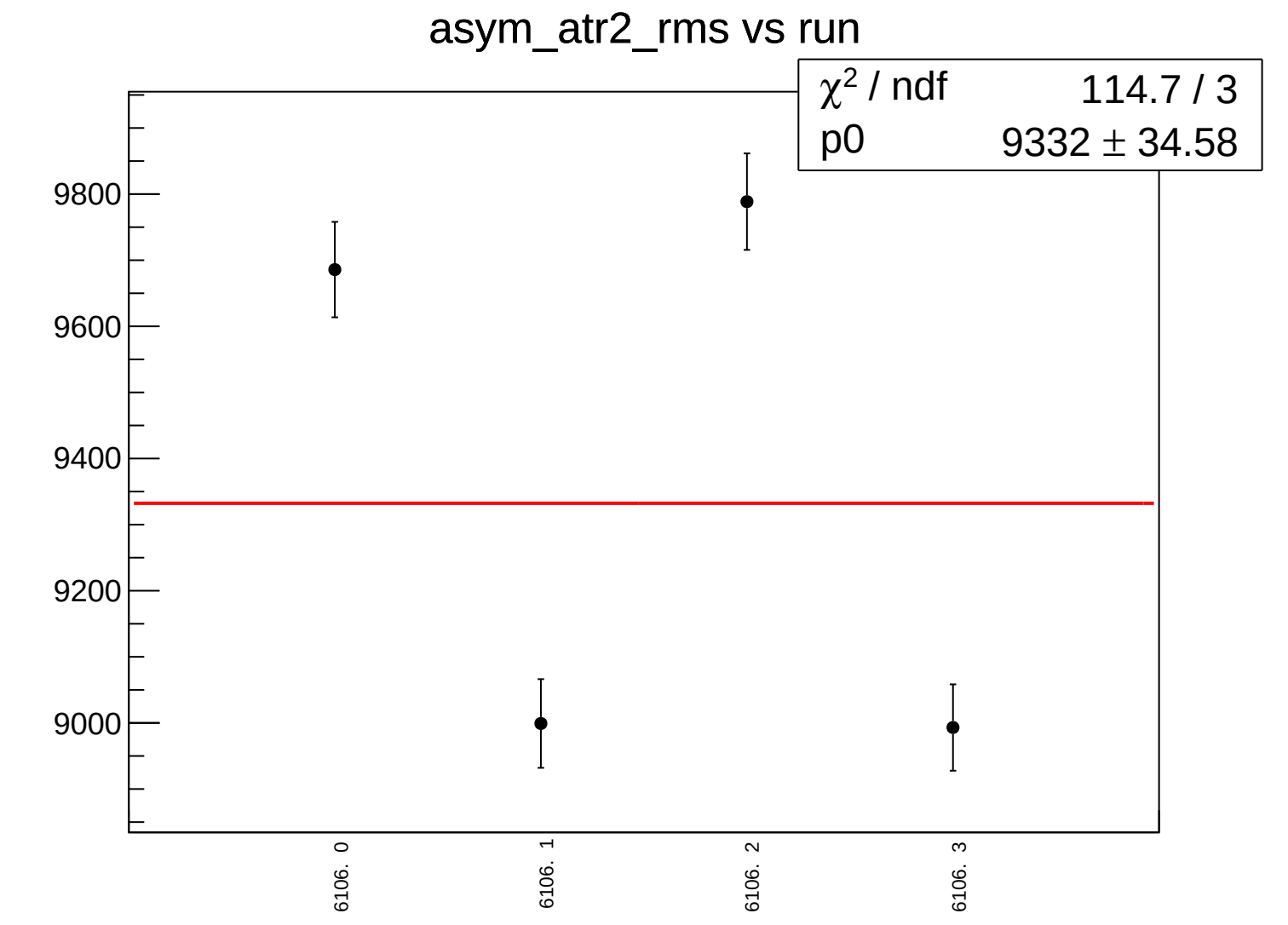

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 1.205 / 3
p0 5614 ± 5.157e+04
200
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.658
Std Dev 7.577
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

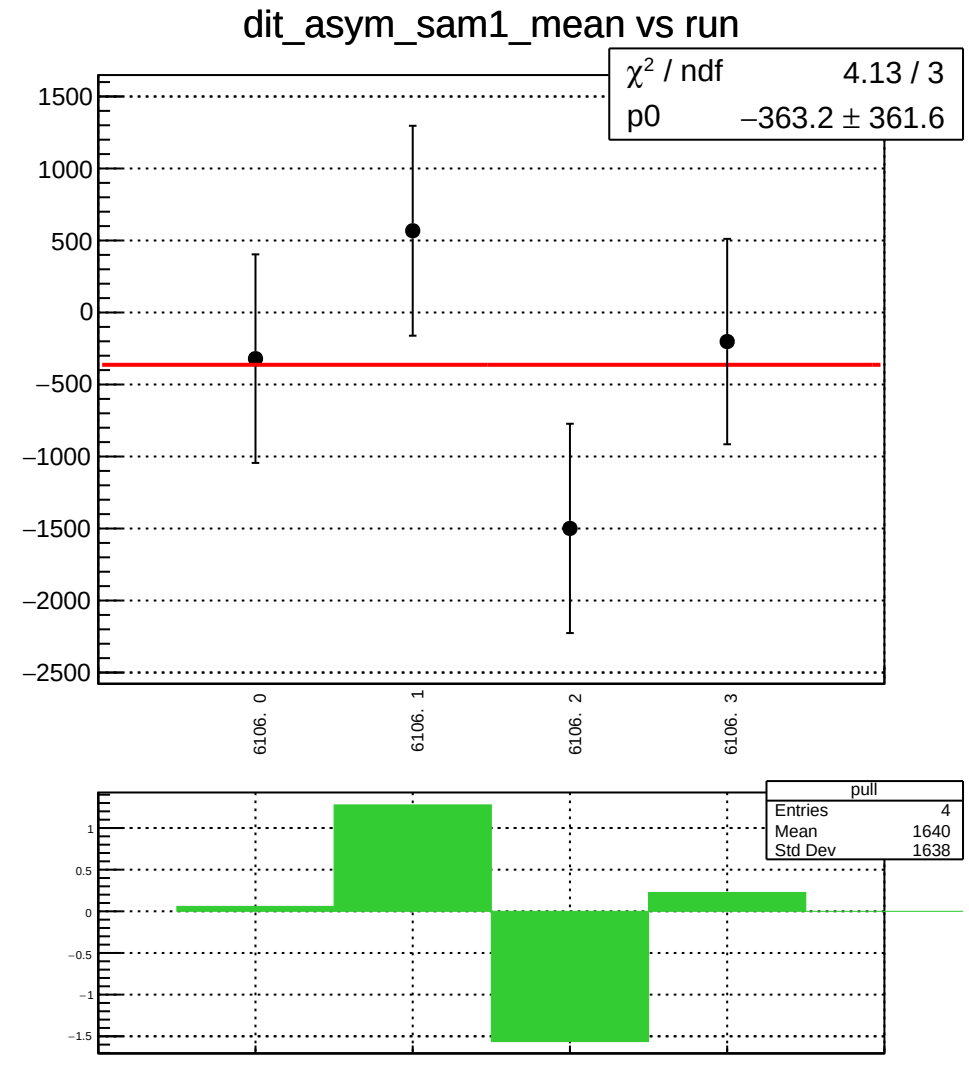

pull1D
Entries 4
Mean −0.006089
Std Dev 0.5489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

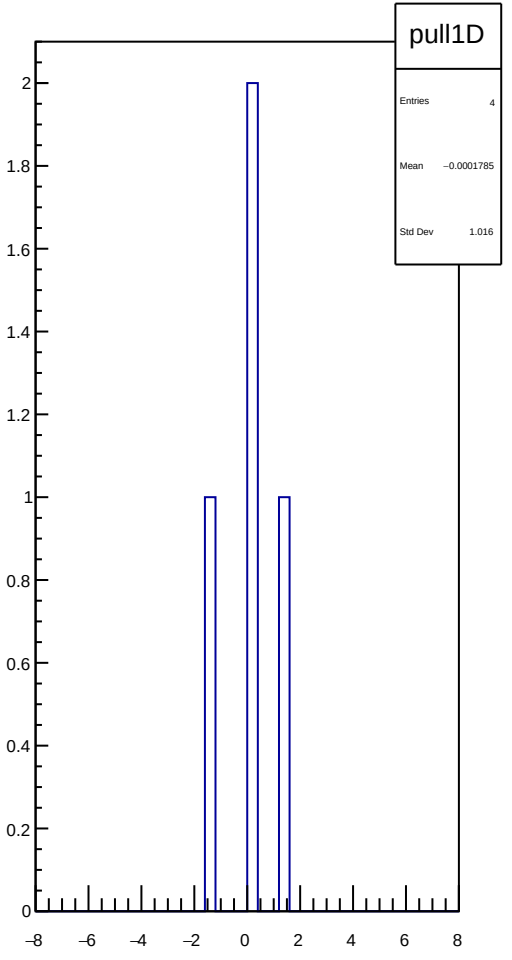

asym_atr2_correction_rms vs run
χ² / ndf 122.6 / 3
p0 9840 ± 36.46
10400
10200
10000
9800
9600
9400
6106. 0
6106. 1
6106. 2
6106. 3

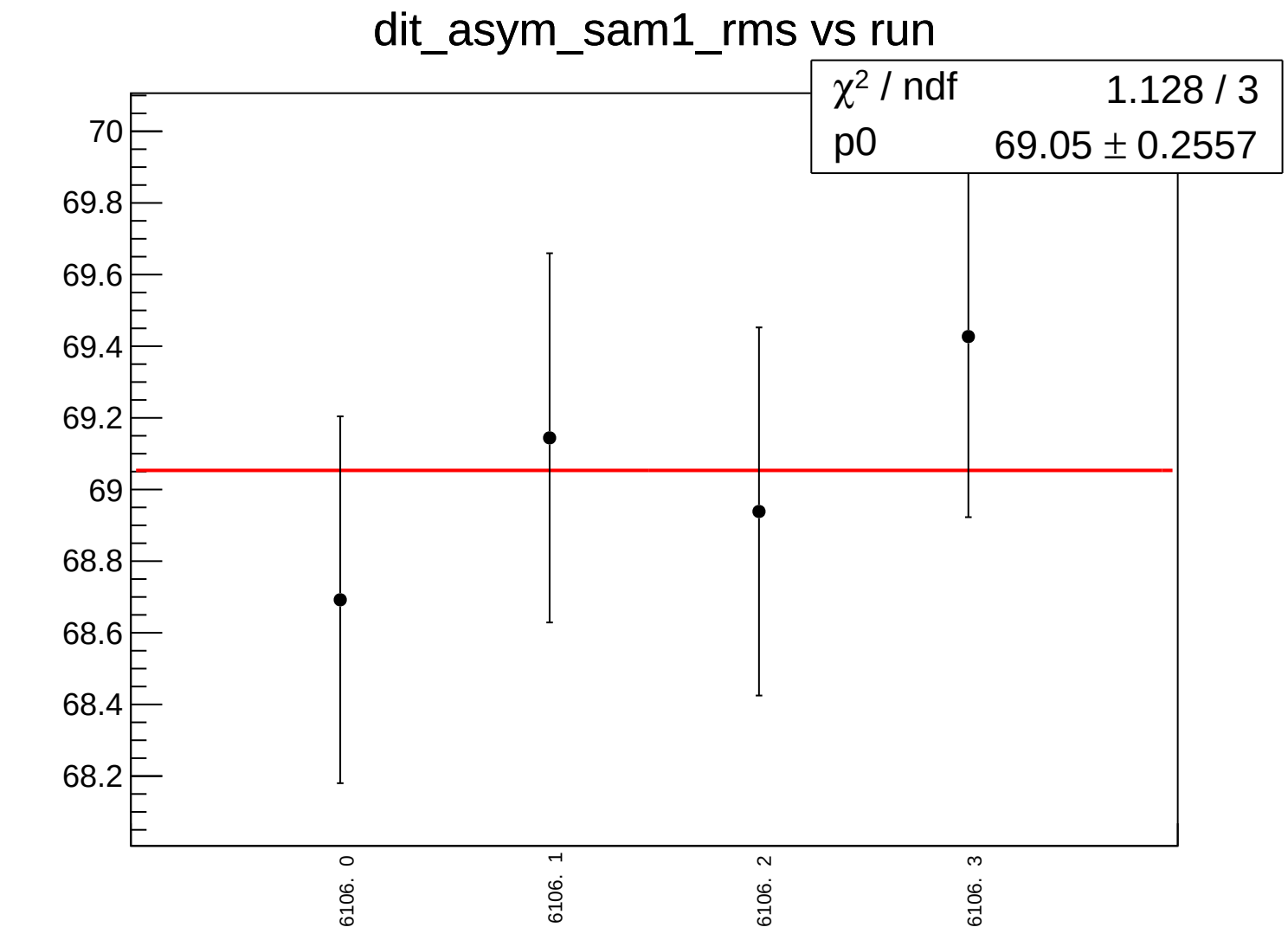

asym_atr2_mean vs run
×10^3
χ² / ndf 1.707 / 3
p0 9532 ± 4.89e+04
200
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −14.34
Std Dev 14.53
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

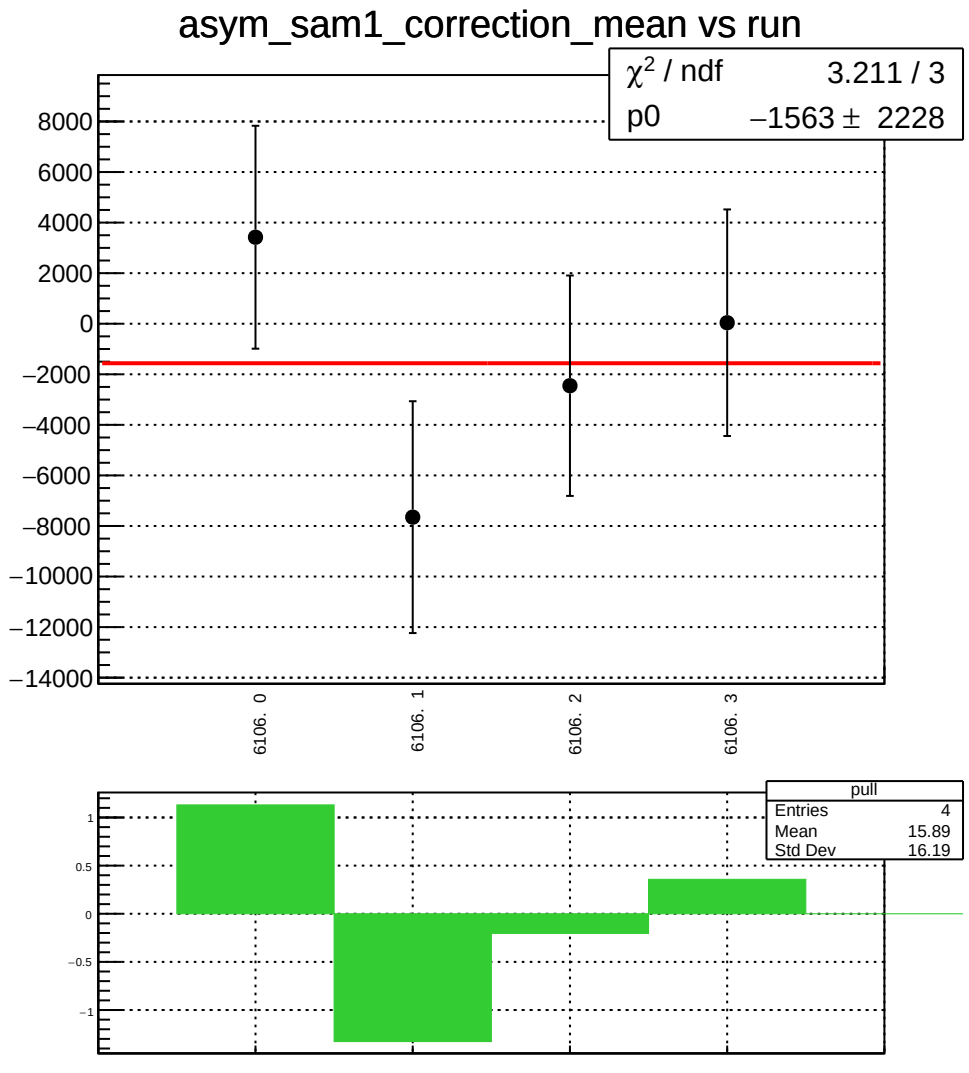

pull1D
Entries 4
Mean 0.01027
Std Dev 0.6532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

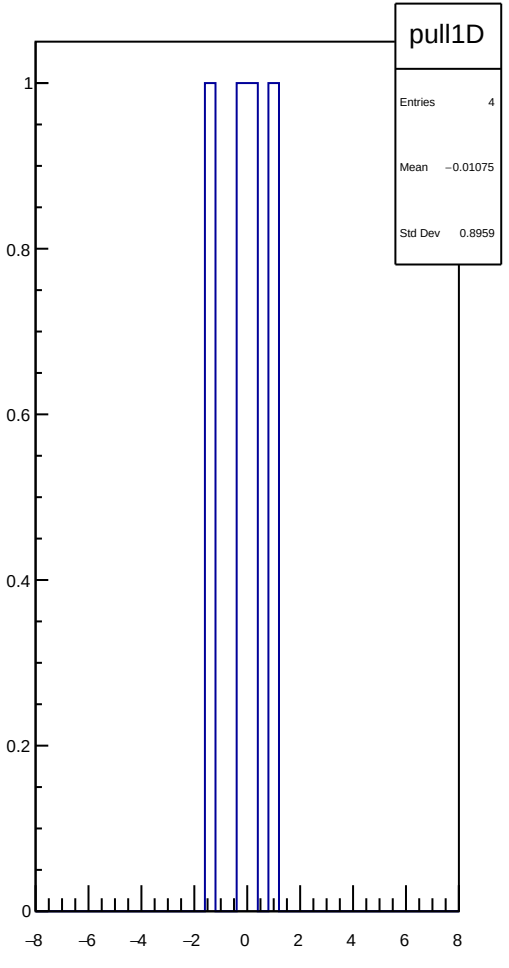

asym_atr2_rms vs run
χ² / ndf 114.7 / 3
p0 9332 ± 34.58
9800
9600
9400
9200
9000
6106. 0
6106. 1
6106. 2
6106. 3

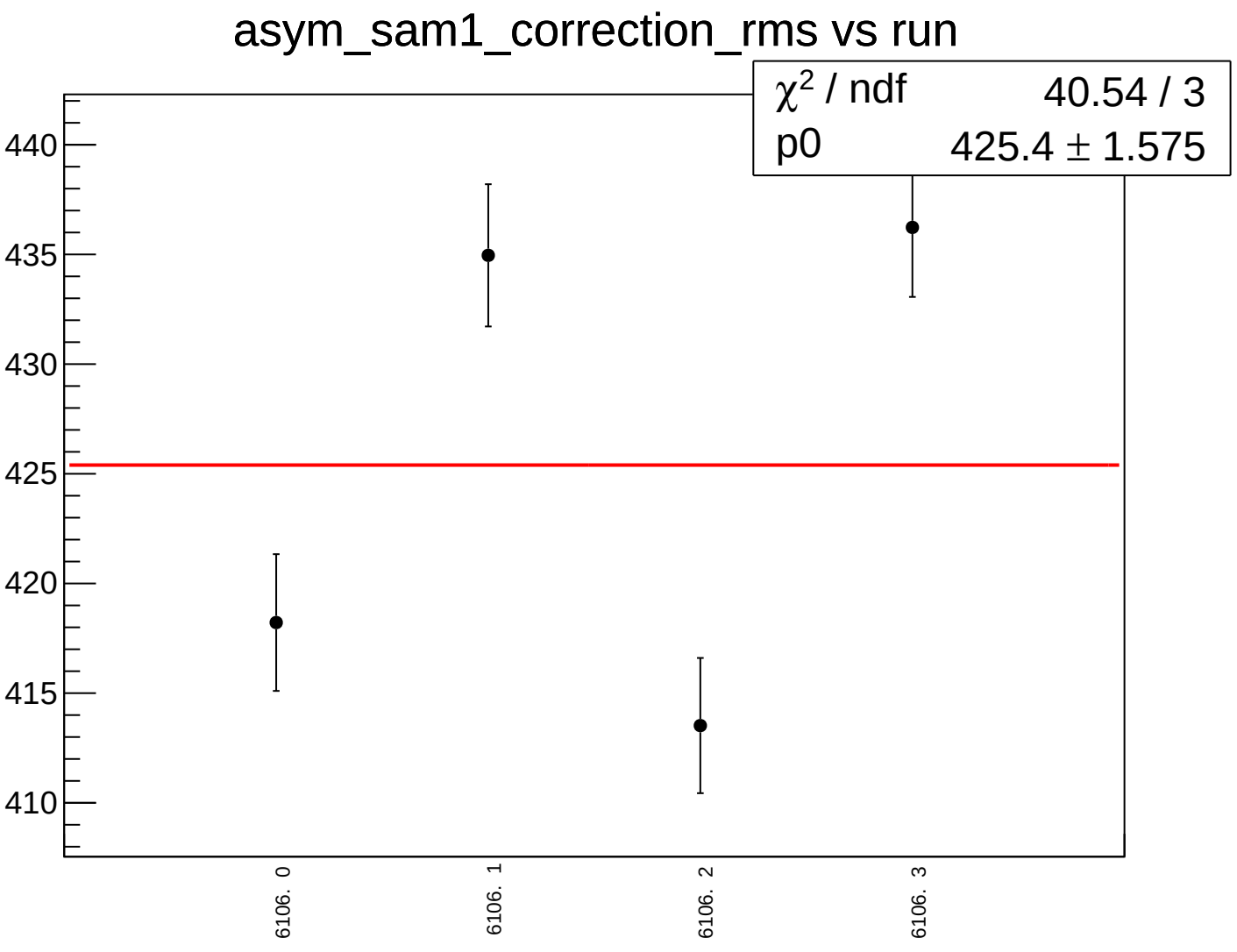

dit_asym_sam1_mean vs run
χ² / ndf 4.13 / 3
p0 −363.2 ± 361.6
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 1640
Std Dev 1638
1
0.5
0
−0.5
−1
−1.5

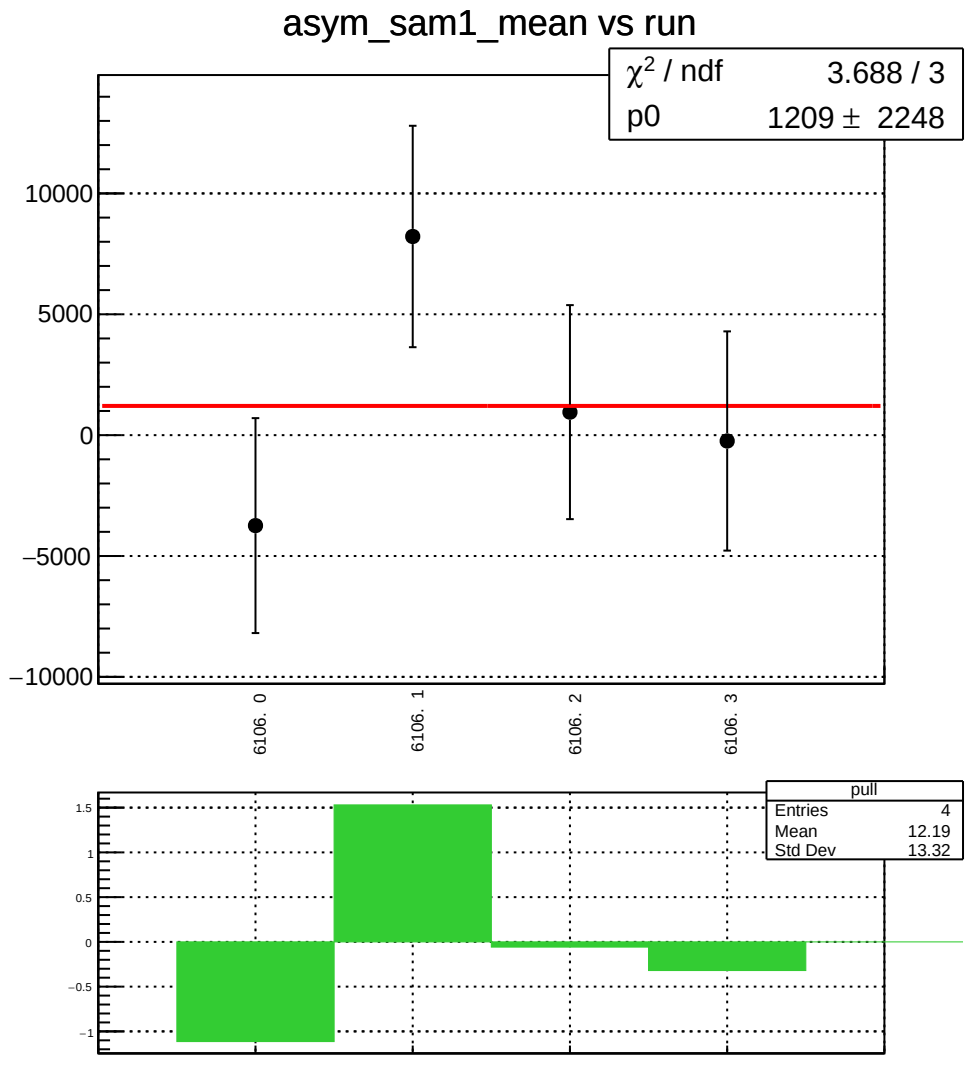

pull1D
Entries 4
Mean −0.0001785
Std Dev 1.016
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

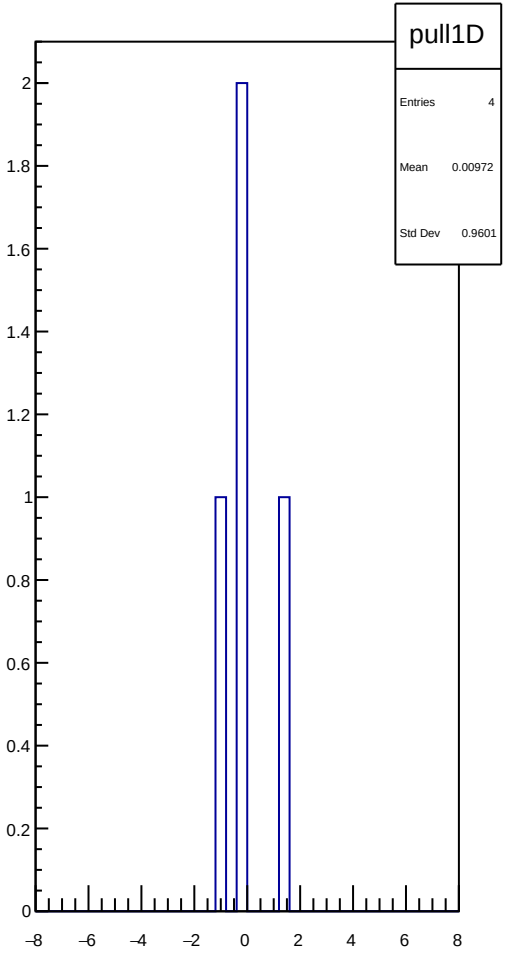

dit_asym_sam1_rms vs run
χ² / ndf 1.128 / 3
p0 69.05 ± 0.2557
70
69.8
69.6
69.4
69.2
69
68.8
68.6
68.4
68.2
6106. 0
6106. 1
6106. 2
6106. 3

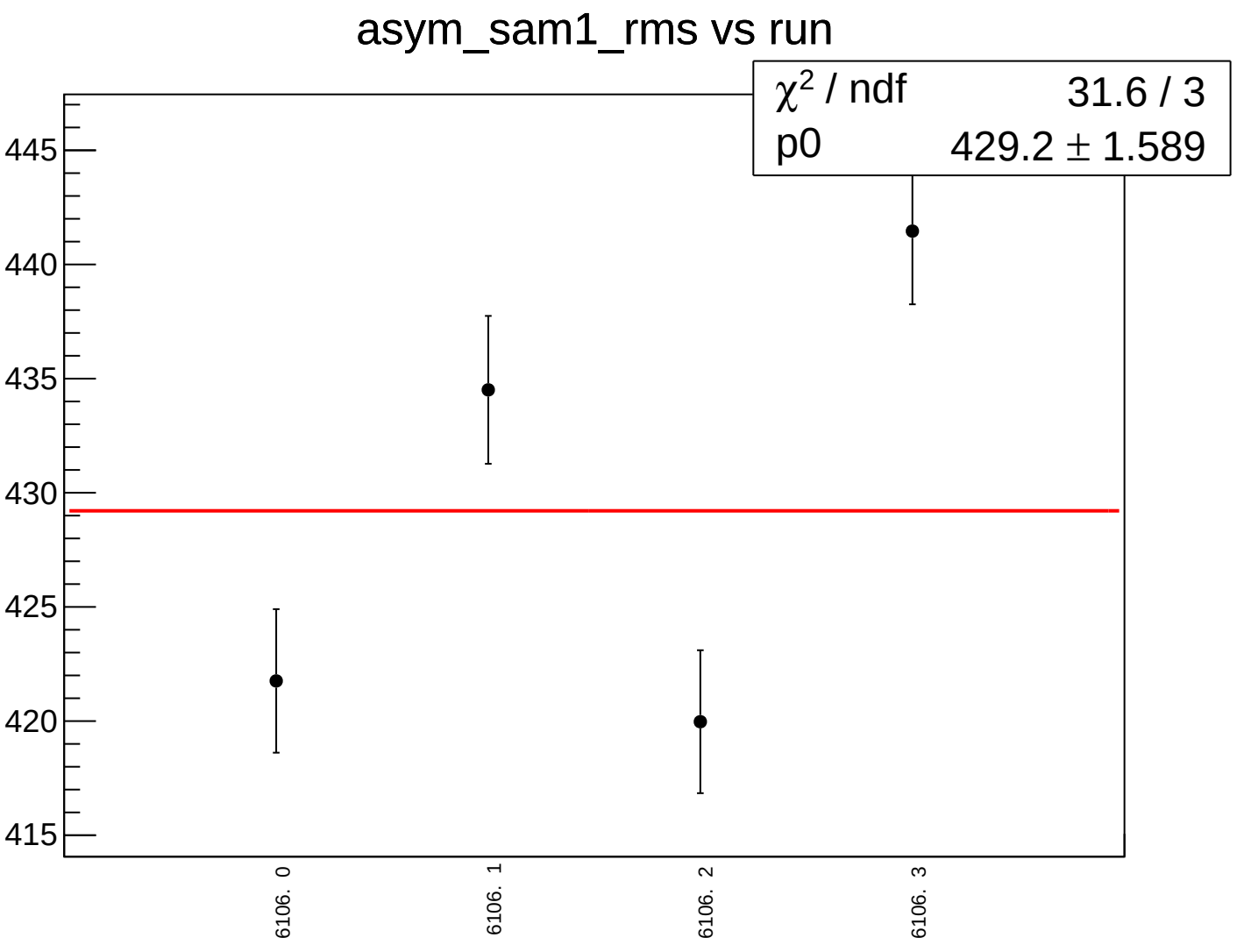

asym_sam1_correction_mean vs run
χ² / ndf 3.211 / 3
p0 −1563 ± 2228
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 15.89
Std Dev 16.19
1
0.5
0
−0.5
−1

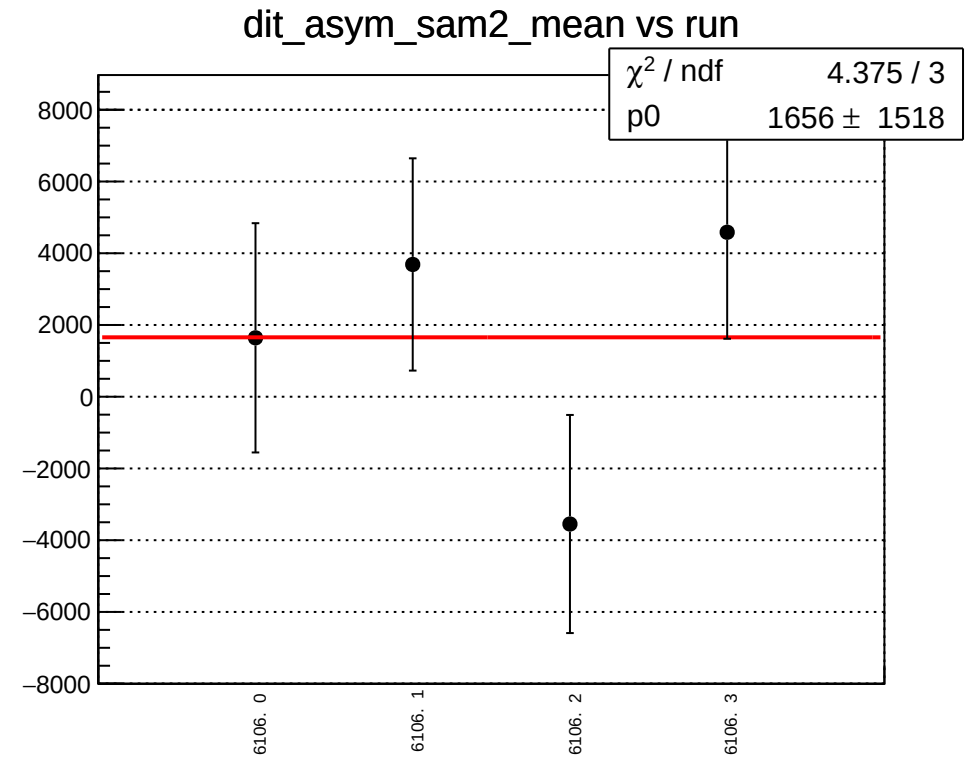

pull1D
Entries 4
Mean −0.01075
Std Dev 0.8959
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

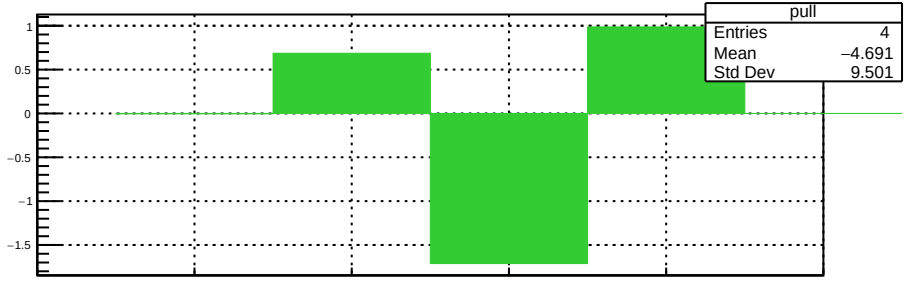

asym_sam1_correction_rms vs run
χ² / ndf 40.54 / 3
p0 425.4 ± 1.575
440
435
430
425
420
415
410
6106. 0
6106. 1
6106. 2
6106. 3

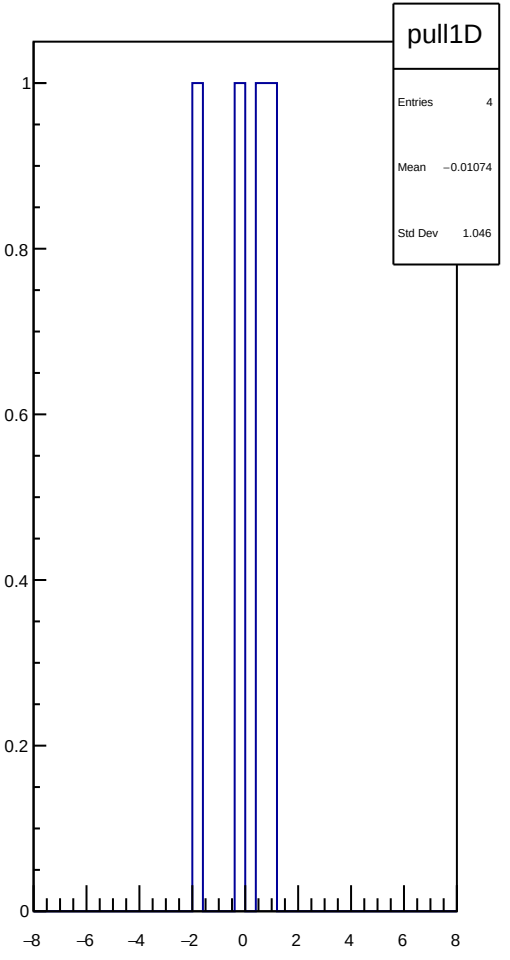

asym_sam1_mean vs run
χ² / ndf 3.688 / 3
p0 1209 ± 2248
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 12.19
Std Dev 13.32
1.5
1
0.5
0
−0.5
−1

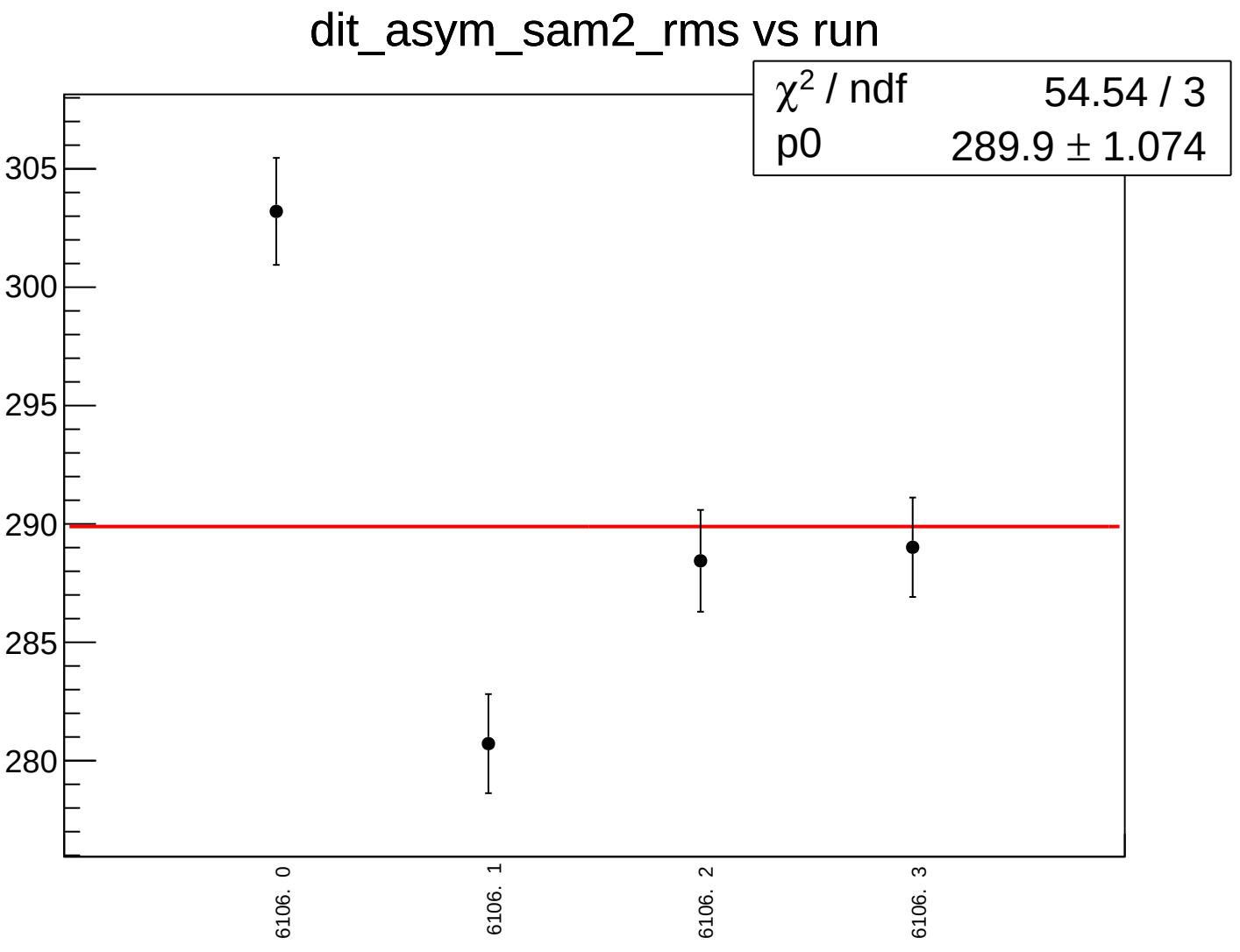

pull1D
Entries 4
Mean 0.00972
Std Dev 0.9601
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

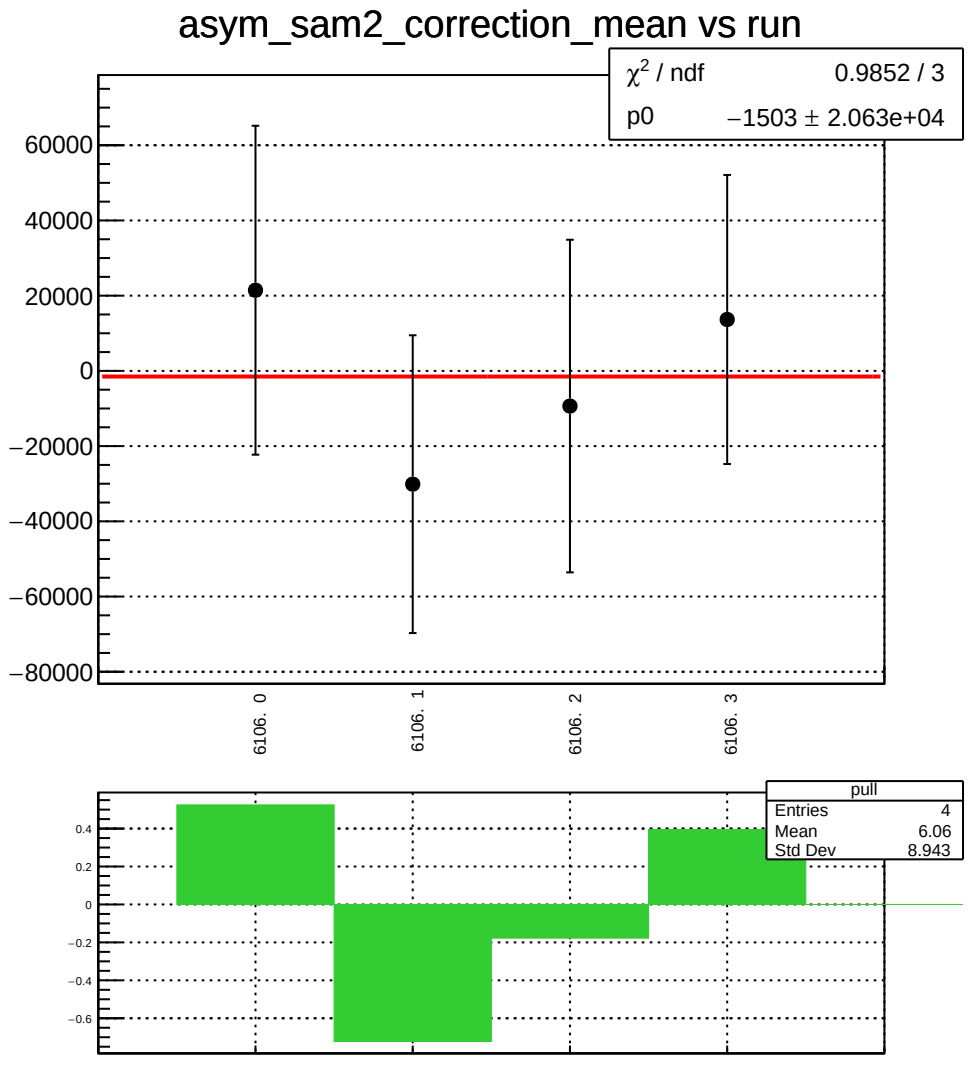

asym_sam1_rms vs run
χ² / ndf 31.6 / 3
p0 429.2 ± 1.589
445
440
435
430
425
420
415
6106. 0
6106. 1
6106. 2
6106. 3

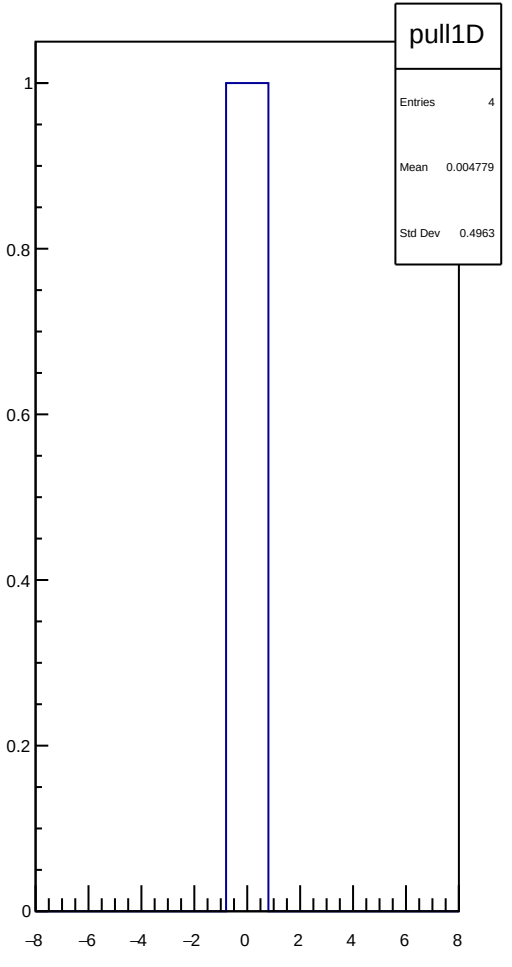

dit_asym_sam2_mean vs run
χ² / ndf 4.375 / 3
p0 1656 ± 1518
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6106. 0
6106. 1
6106. 2
6106. 3

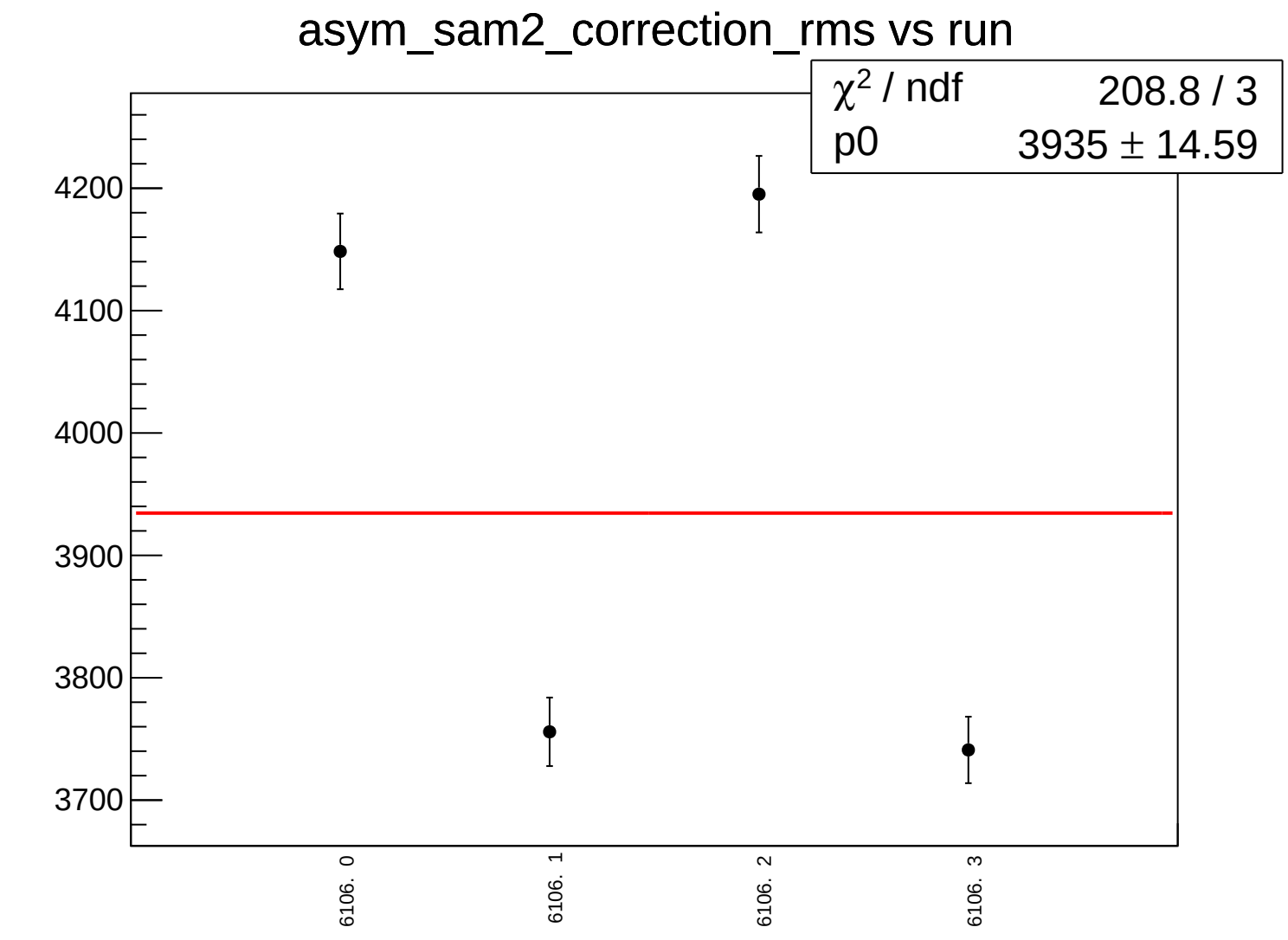

pull
Entries 4
Mean −4.691
Std Dev 9.501
1
0.5
0
−0.5
−1
−1.5

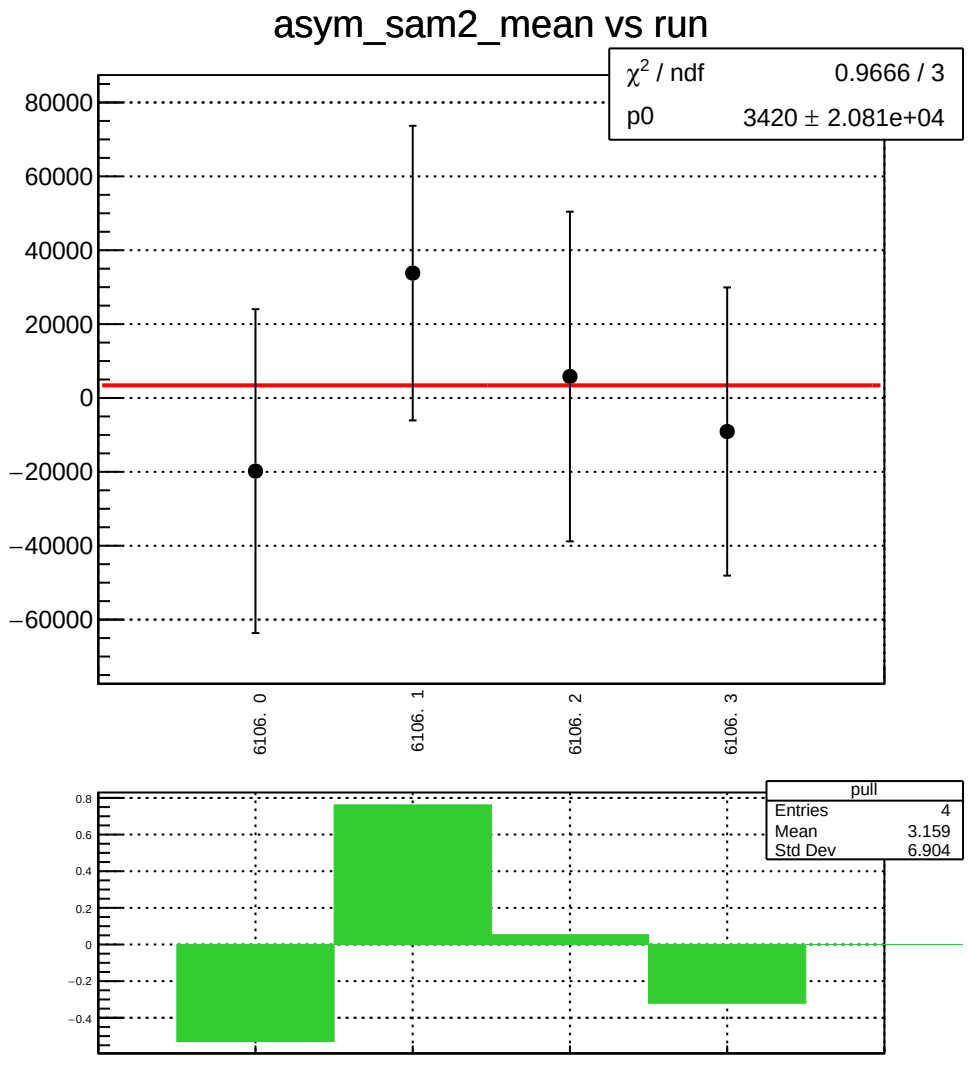

pull1D
Entries 4
Mean −0.01074
Std Dev 1.046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

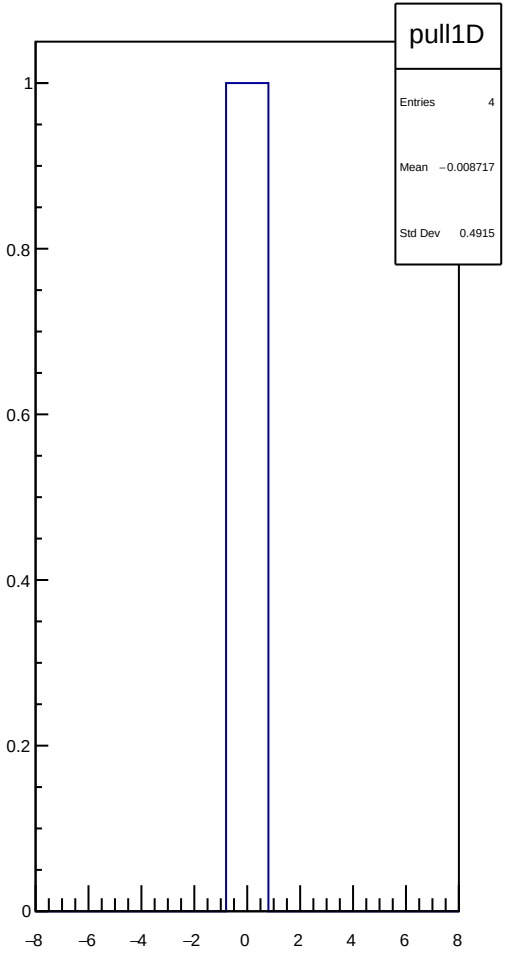

dit_asym_sam2_rms vs run
χ² / ndf 54.54 / 3
p0 289.9 ± 1.074
305
300
295
290
285
280
6106. 0
6106. 1
6106. 2
6106. 3

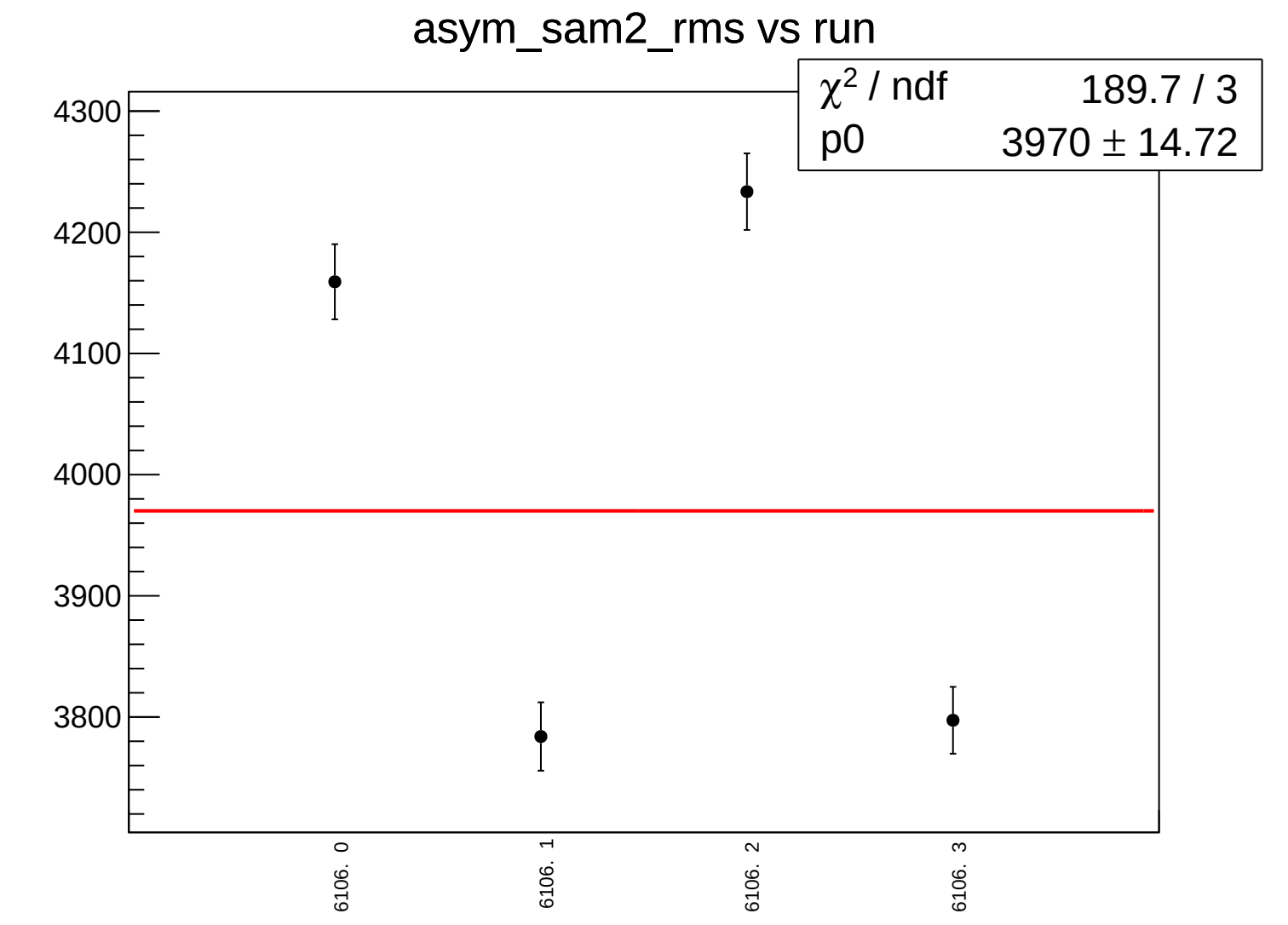

asym_sam2_correction_mean vs run
χ² / ndf 0.9852 / 3
p0 −1503 ± 2.063e+04
60000
40000
20000
0
−20000
−40000
−60000
−80000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 6.06
Std Dev 8.943
0.4
0.2
0
−0.2
−0.4
−0.6

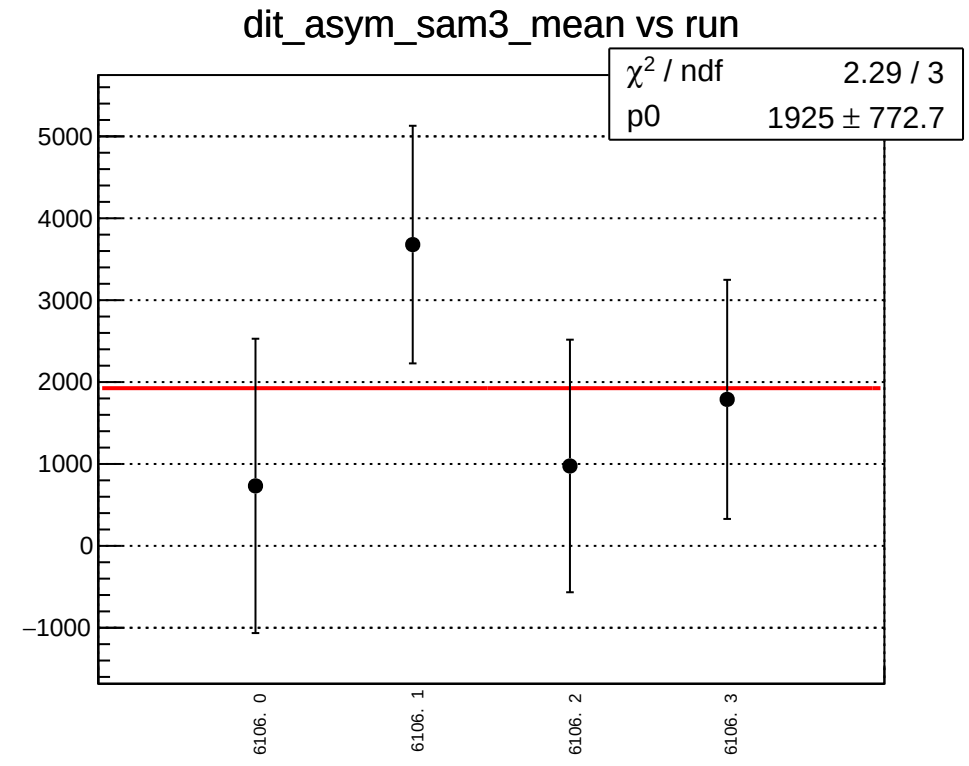

pull1D
Entries 4
Mean 0.004779
Std Dev 0.4963
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

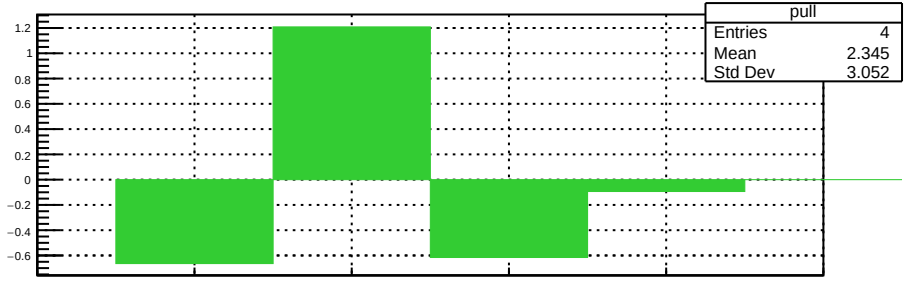

asym_sam2_correction_rms vs run
χ² / ndf 208.8 / 3
p0 3935 ± 14.59
4200
4100
4000
3900
3800
3700
6106. 0
6106. 1
6106. 2
6106. 3

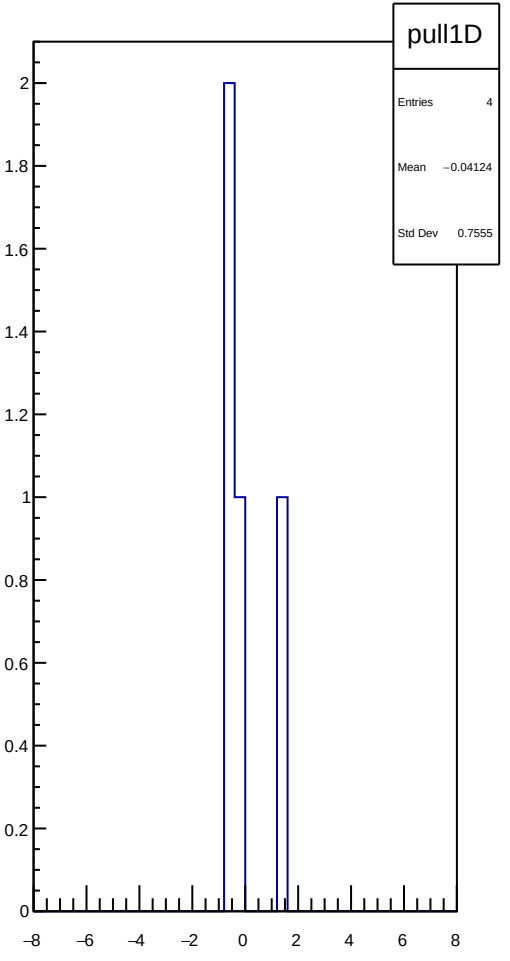

asym_sam2_mean vs run
χ² / ndf 0.9666 / 3
p0 3420 ± 2.081e+04
80000
60000
40000
20000
0
−20000
−40000
−60000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 3.159
Std Dev 6.904
0.8
0.6
0.4
0.2
0
−0.2
−0.4

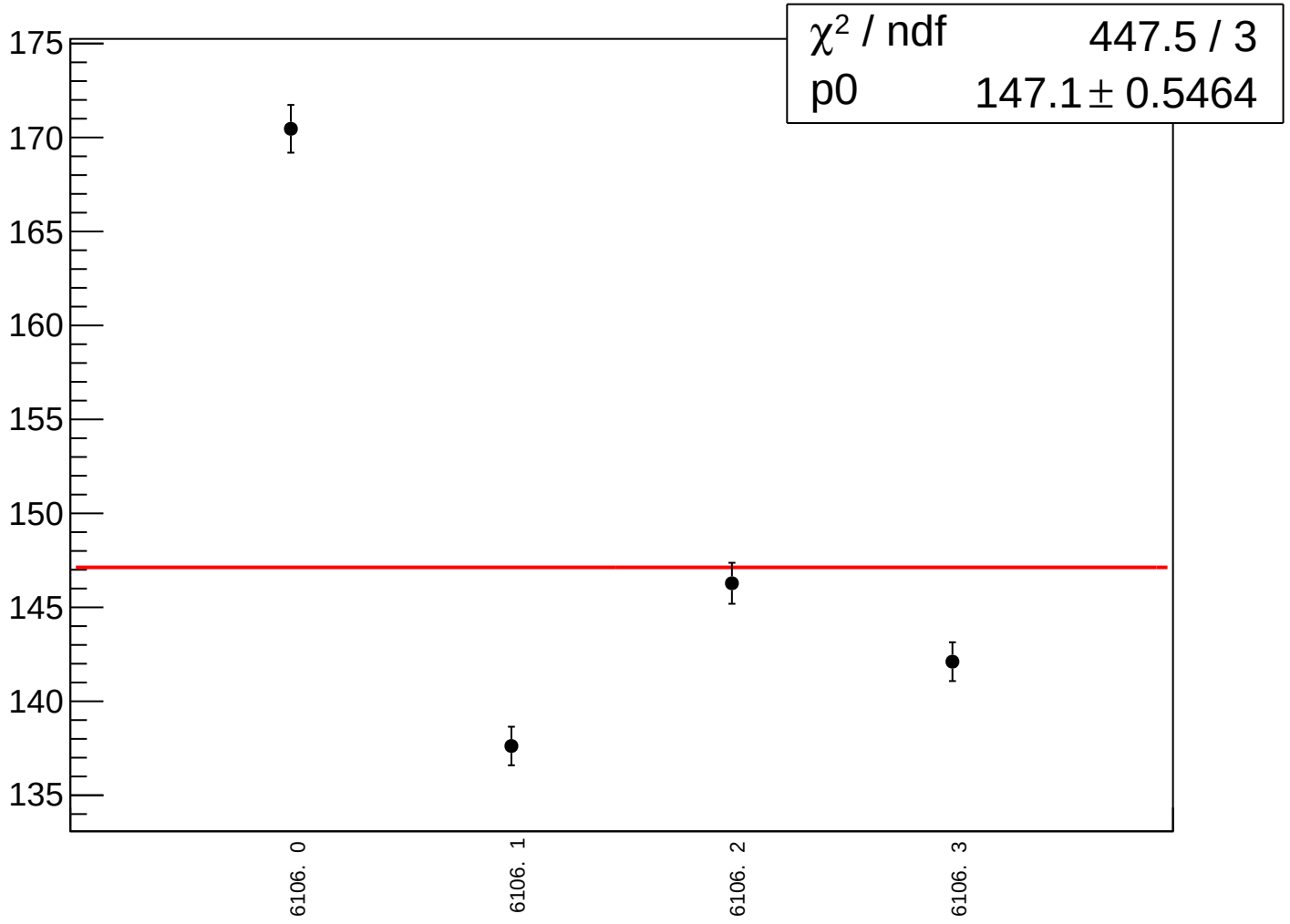

pull1D
Entries 4
Mean −0.008717
Std Dev 0.4915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

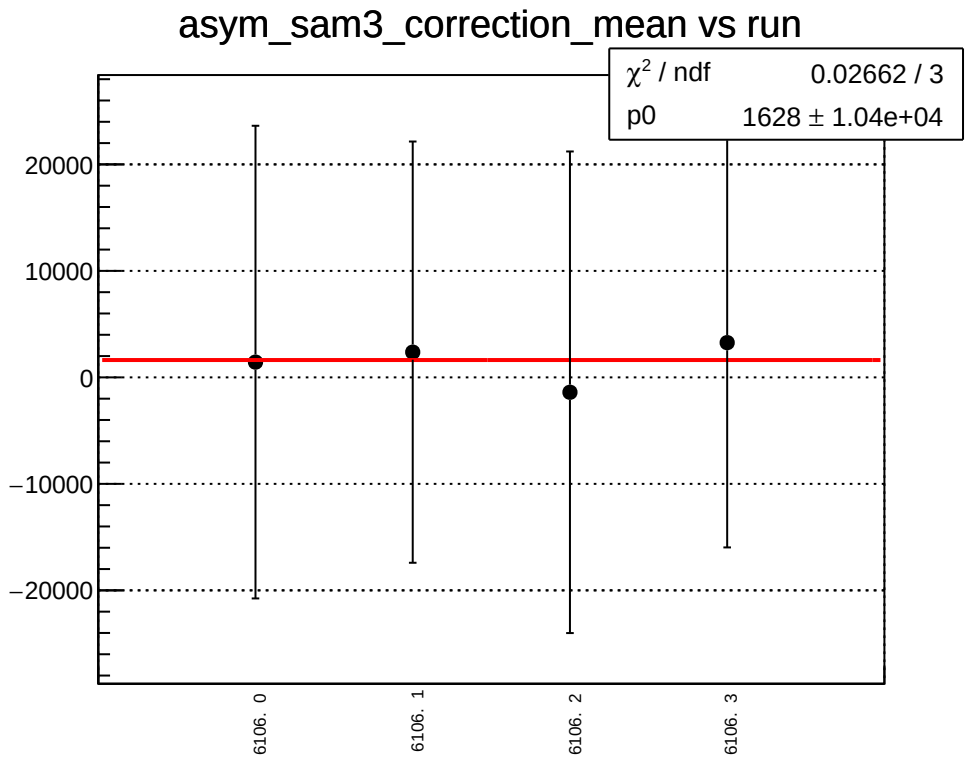

asym_sam2_rms vs run
χ² / ndf 189.7 / 3
p0 3970 ± 14.72
4300
4200
4100
4000
3900
3800
6106. 0
6106. 1
6106. 2
6106. 3

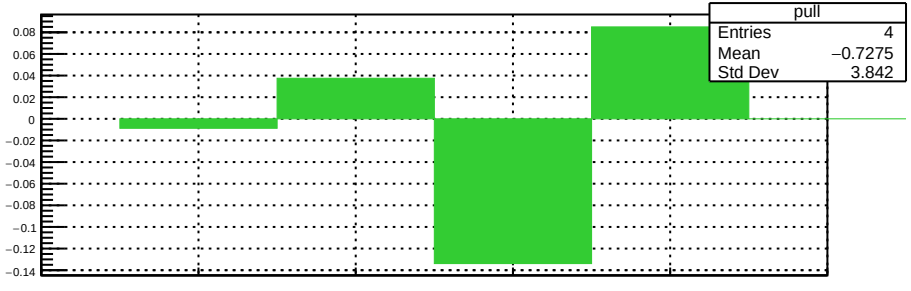

dit_asym_sam3_mean vs run
χ² / ndf 2.29 / 3
p0 1925 ± 772.7
5000
4000
3000
2000
1000
0
−1000
6106. 0
6106. 1
6106. 2
6106. 3

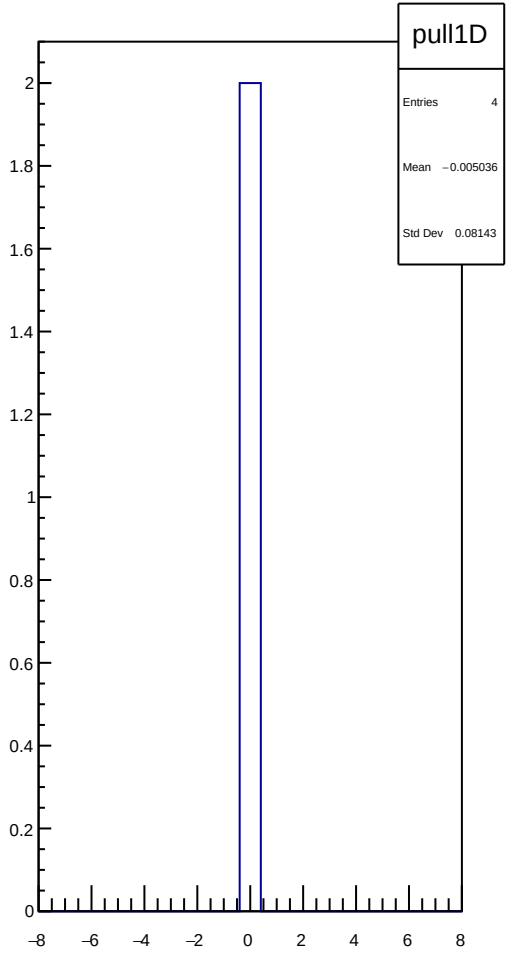

pull
Entries 4
Mean 2.345
Std Dev 3.052
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

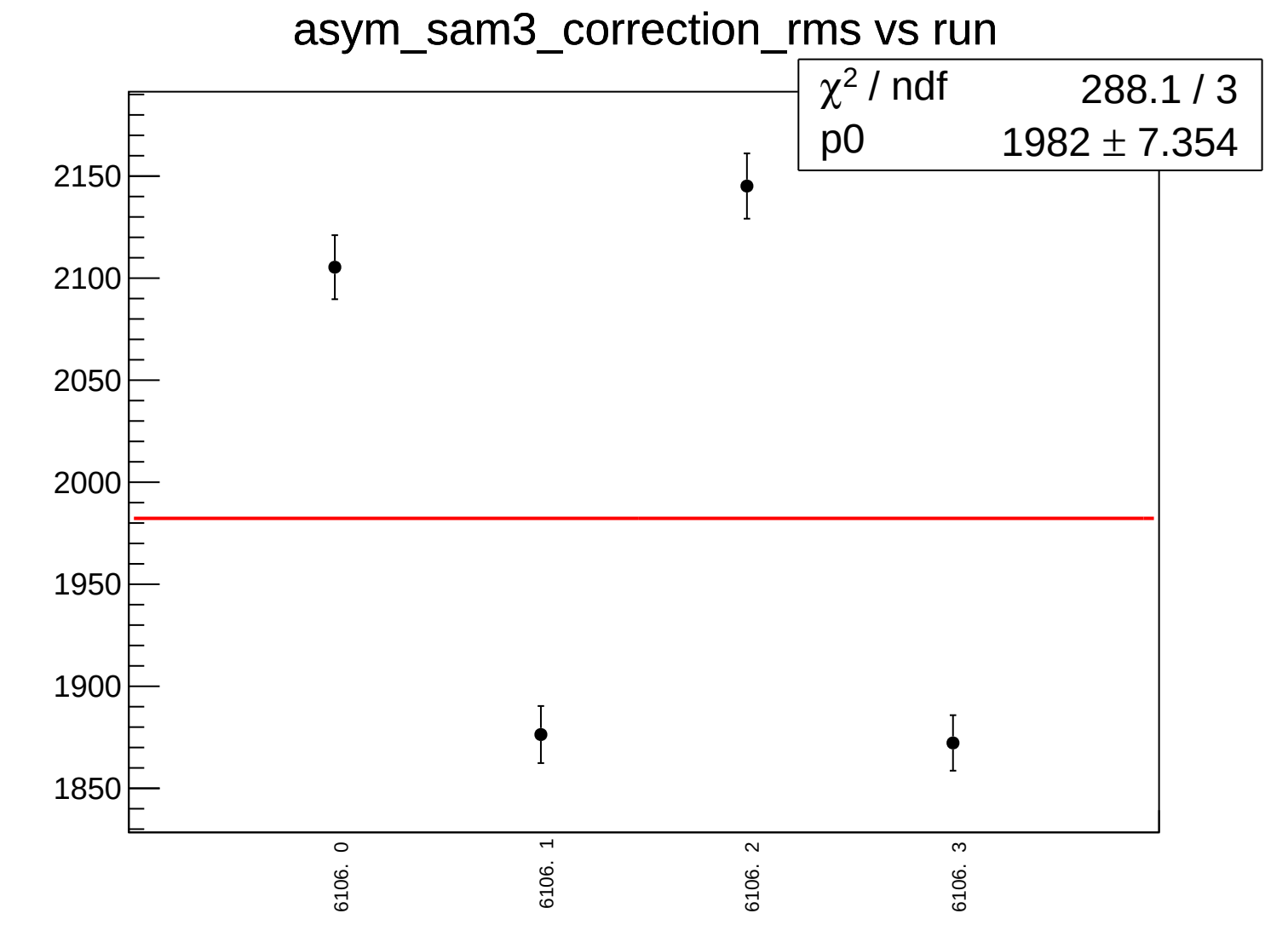

pull1D
Entries 4
Mean −0.04124
Std Dev 0.7555
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

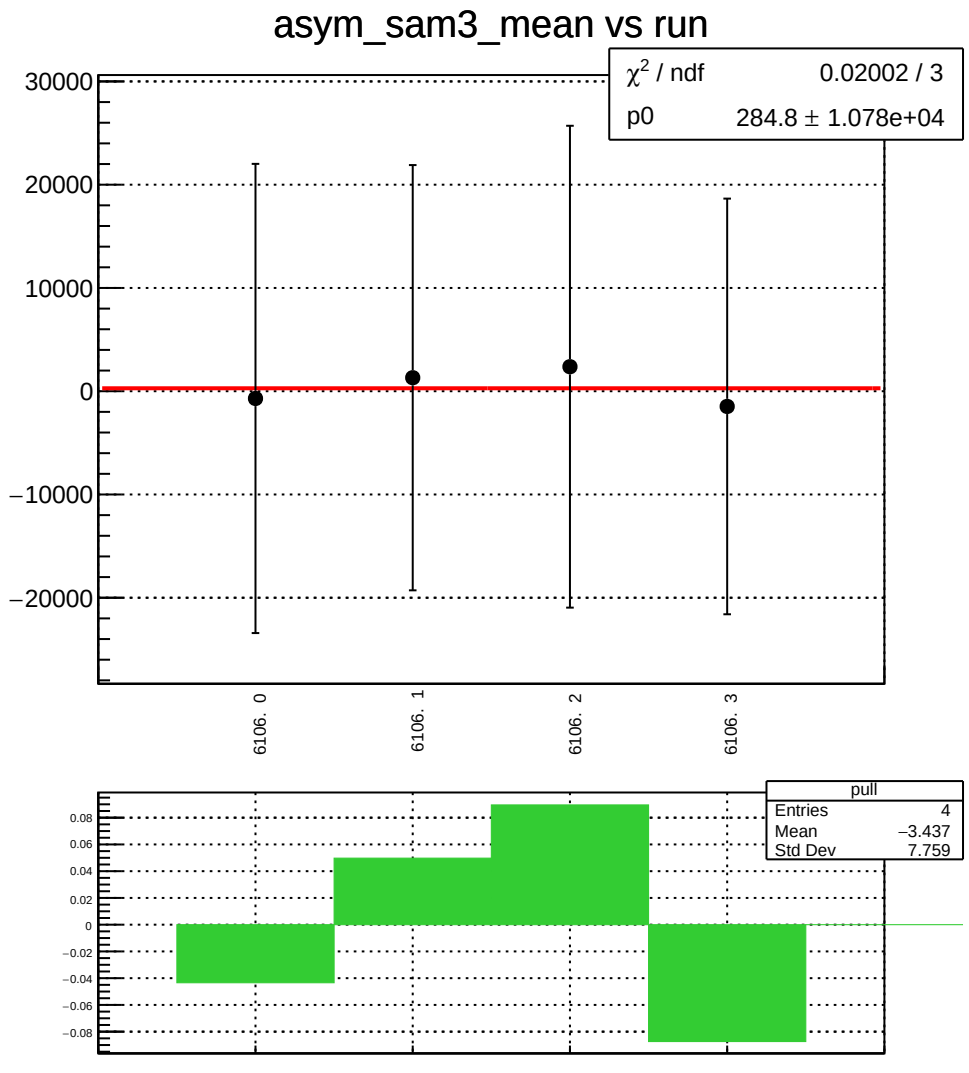

dit_asym_sam3_rms vs run
χ² / ndf 447.5 / 3
p0 147.1 ± 0.5464
175
170
165
160
155
150
145
140
135
6106. 0
6106. 1
6106. 2
6106. 3

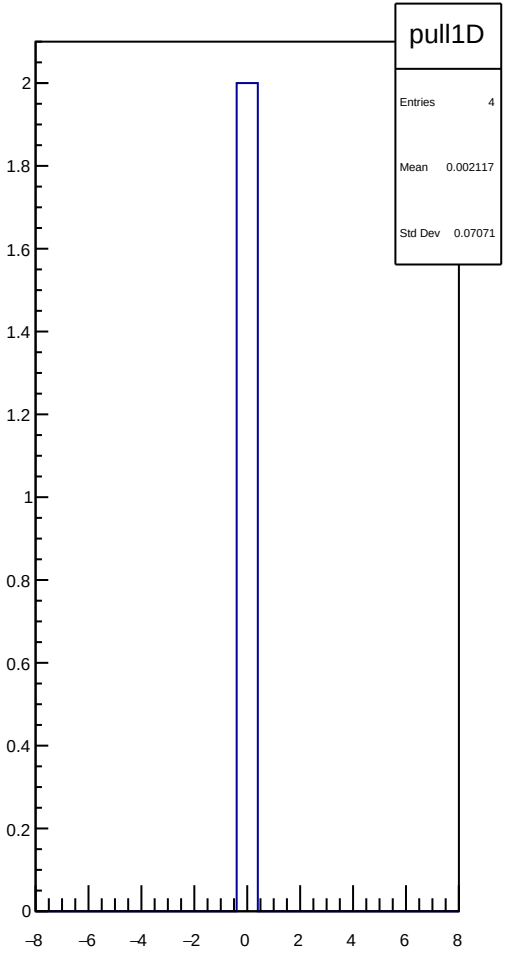

asym_sam3_correction_mean vs run
χ² / ndf 0.02662 / 3
p0 1628 ± 1.04e+04
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3

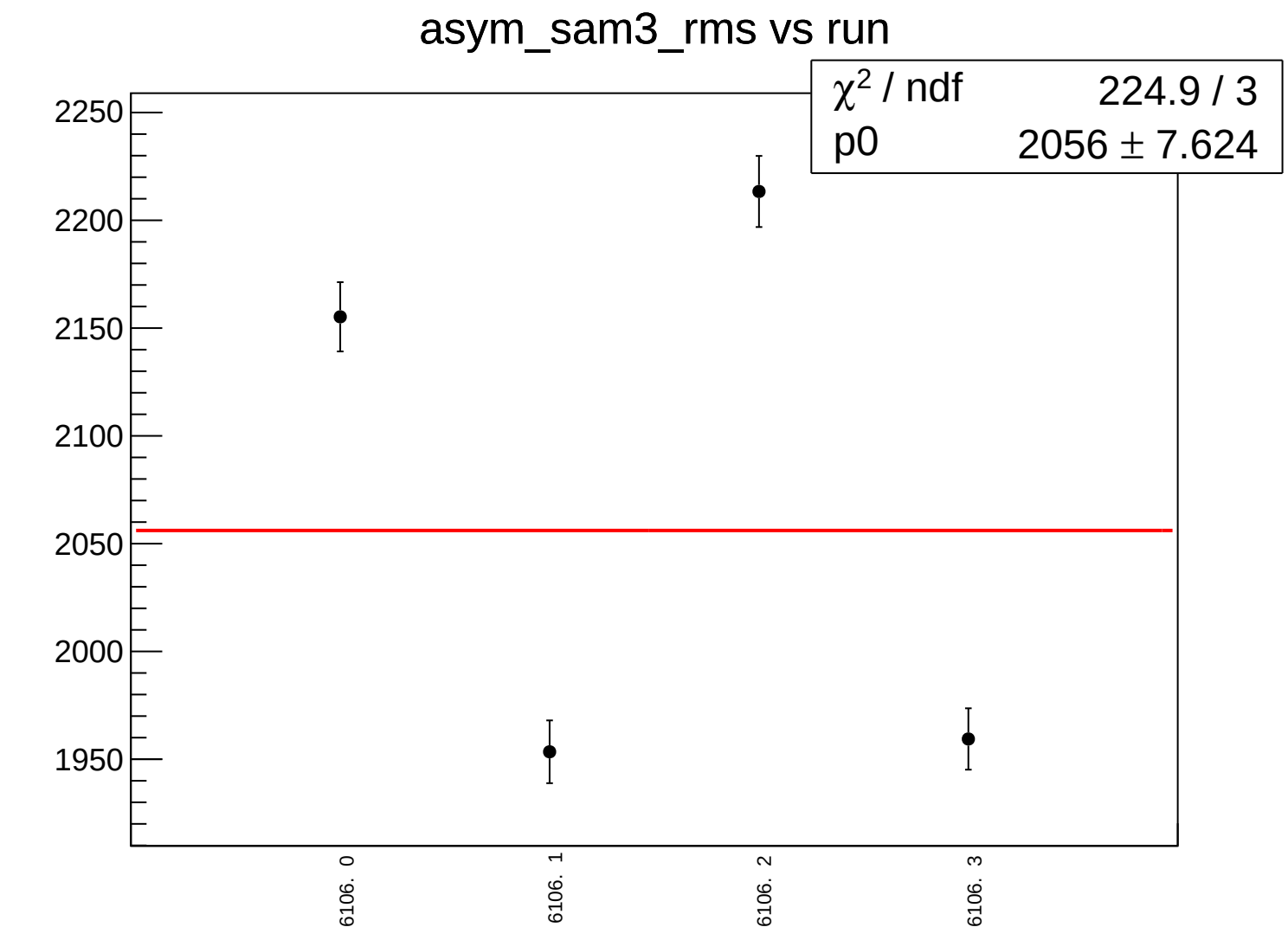

pull
Entries 4
Mean −0.7275
Std Dev 3.842
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14

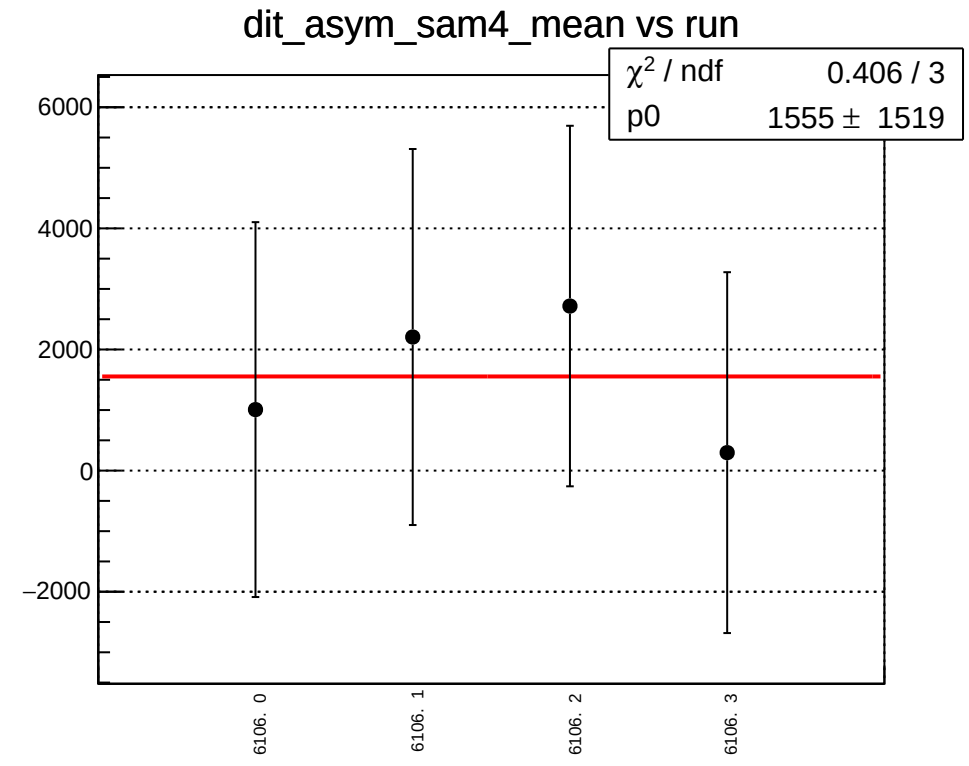

pull1D
Entries 4
Mean −0.005036
Std Dev 0.08143
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

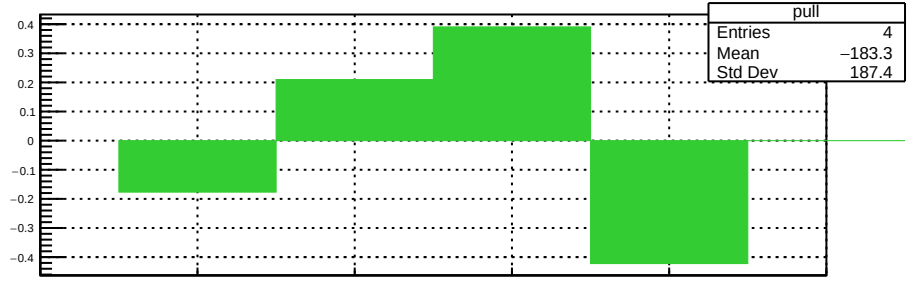

asym_sam3_correction_rms vs run
χ² / ndf 288.1 / 3
p0 1982 ± 7.354
2150
2100
2050
2000
1950
1900
1850
6106. 0
6106. 1
6106. 2
6106. 3

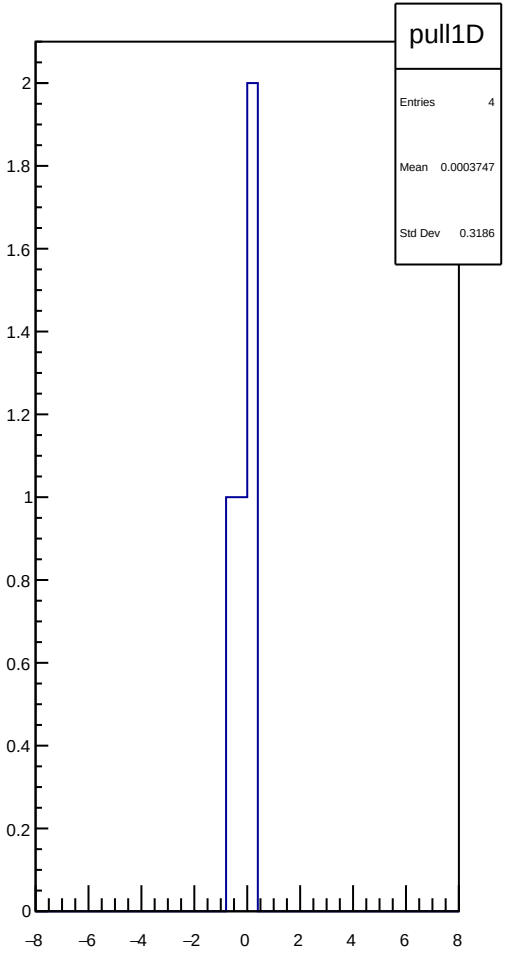

asym_sam3_mean vs run
χ² / ndf 0.02002 / 3
p0 284.8 ± 1.078e+04
30000
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.437
Std Dev 7.759
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

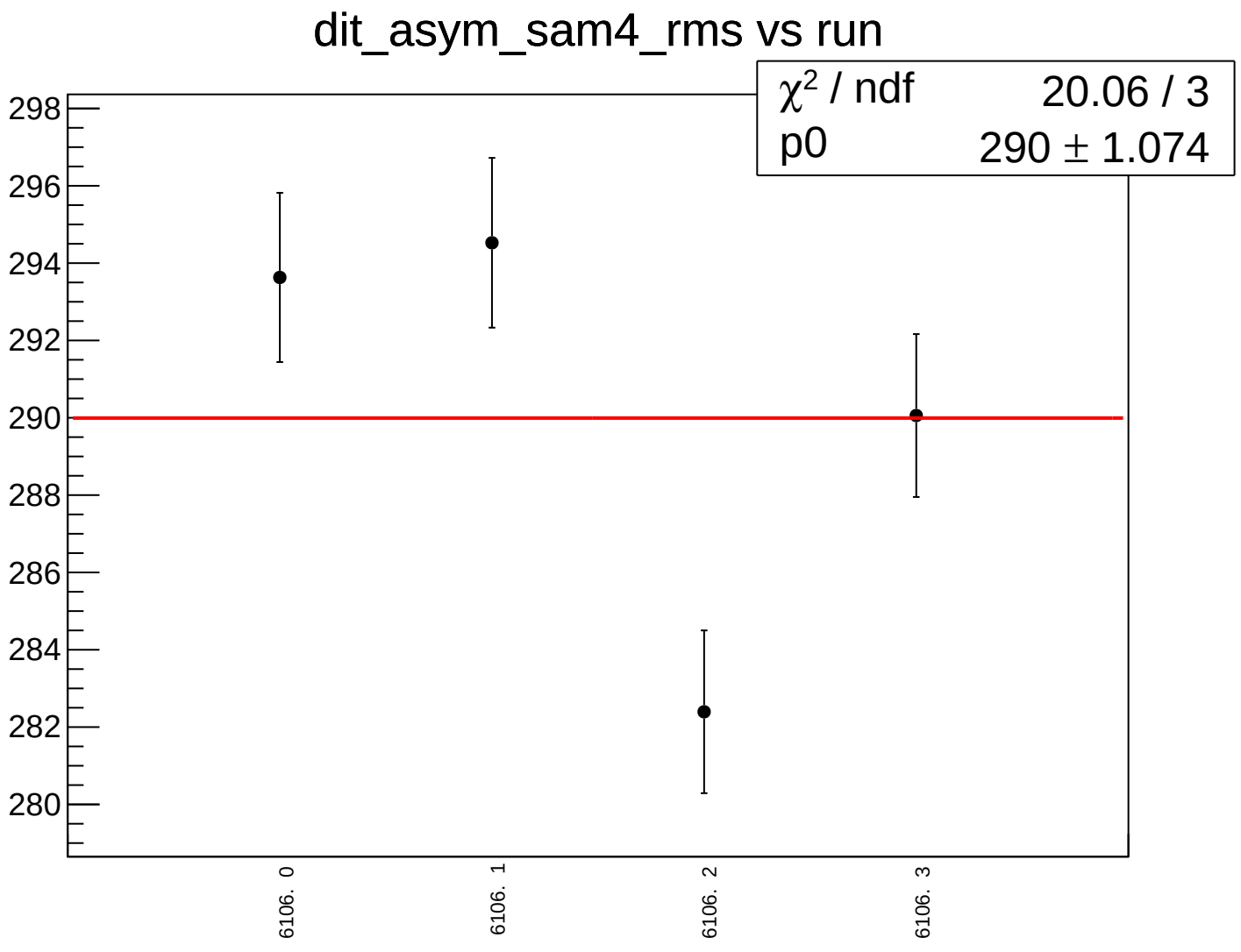

pull1D
Entries 4
Mean 0.002117
Std Dev 0.07071
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

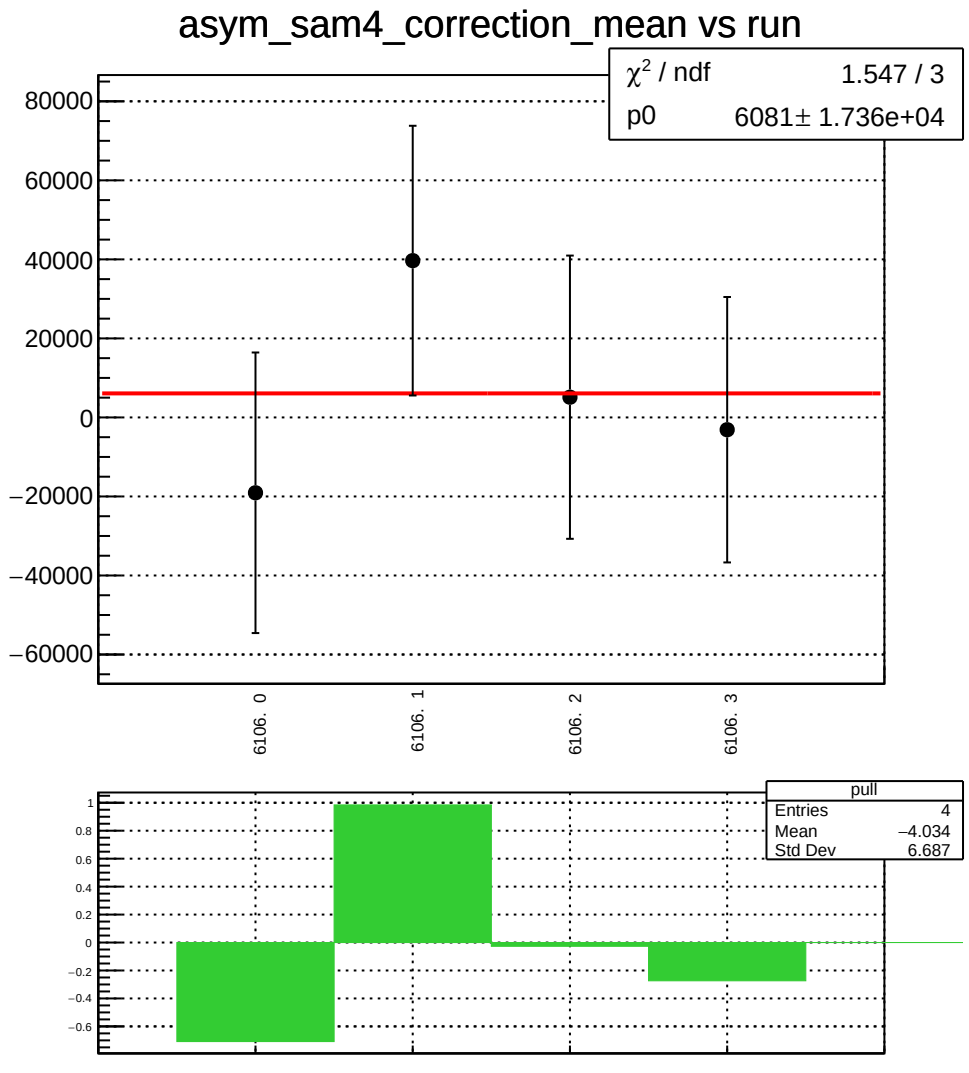

asym_sam3_rms vs run
χ² / ndf 224.9 / 3
p0 2056 ± 7.624
2250
2200
2150
2100
2050
2000
1950
6106. 0
6106. 1
6106. 2
6106. 3

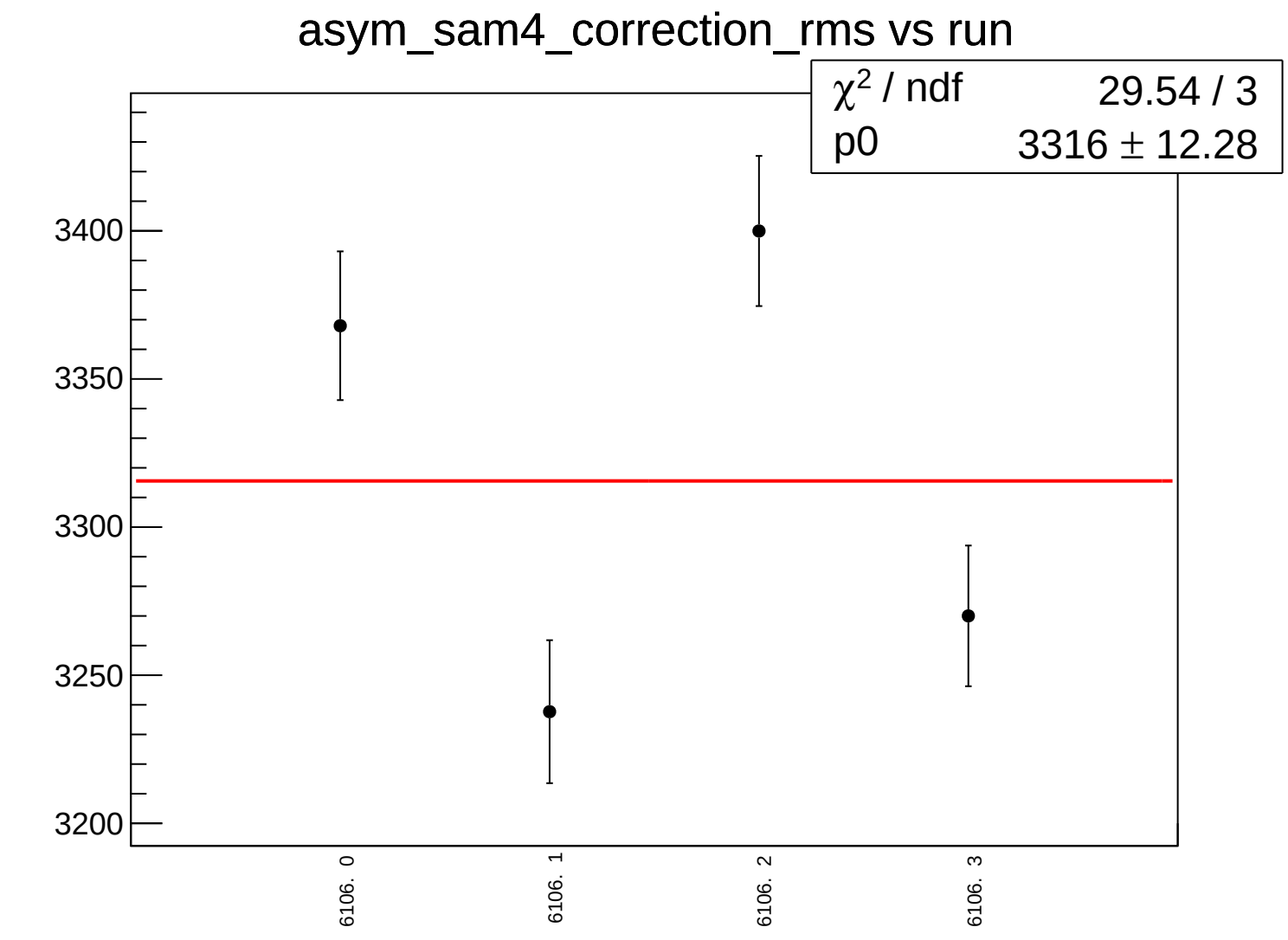

dit_asym_sam4_mean vs run
χ² / ndf 0.406 / 3
p0 1555 ± 1519
6000
4000
2000
0
−2000
6106. 0
6106. 1
6106. 2
6106. 3

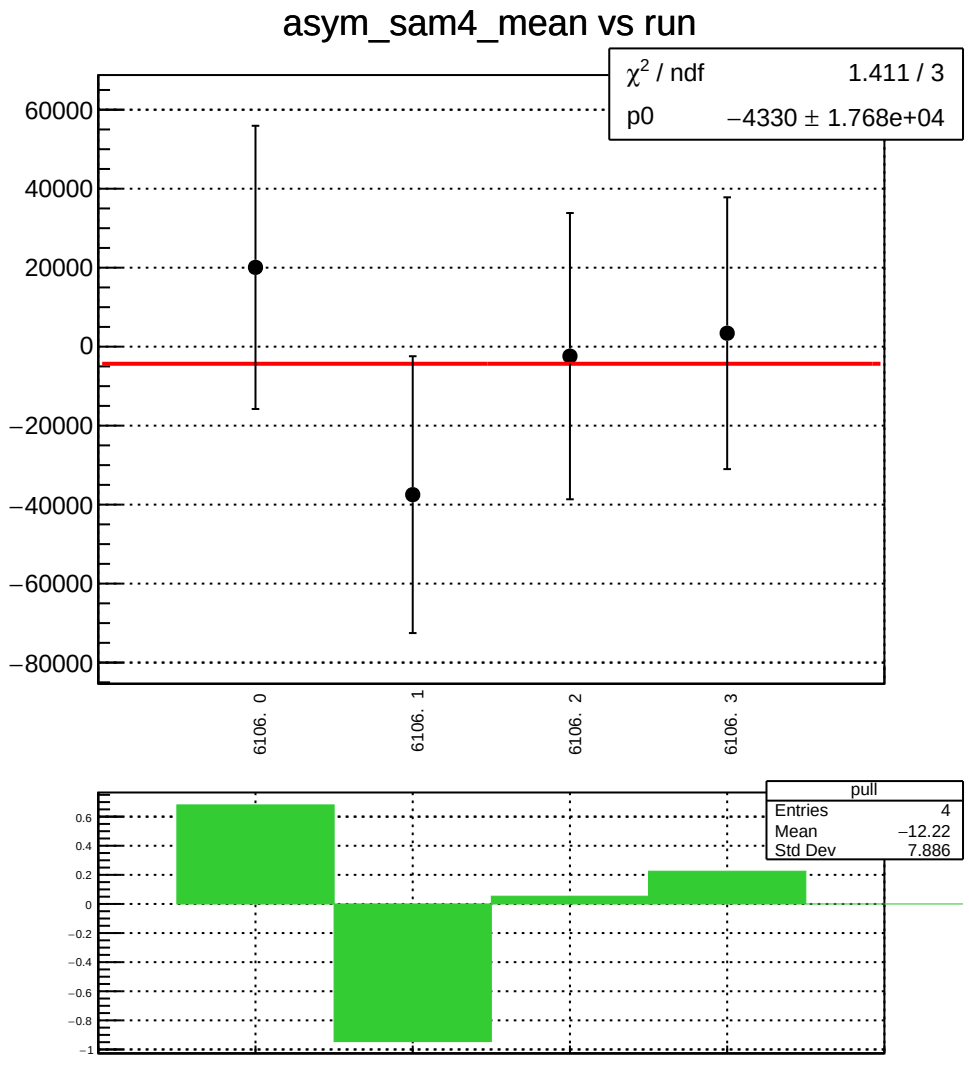

pull
Entries 4
Mean −183.3
Std Dev 187.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

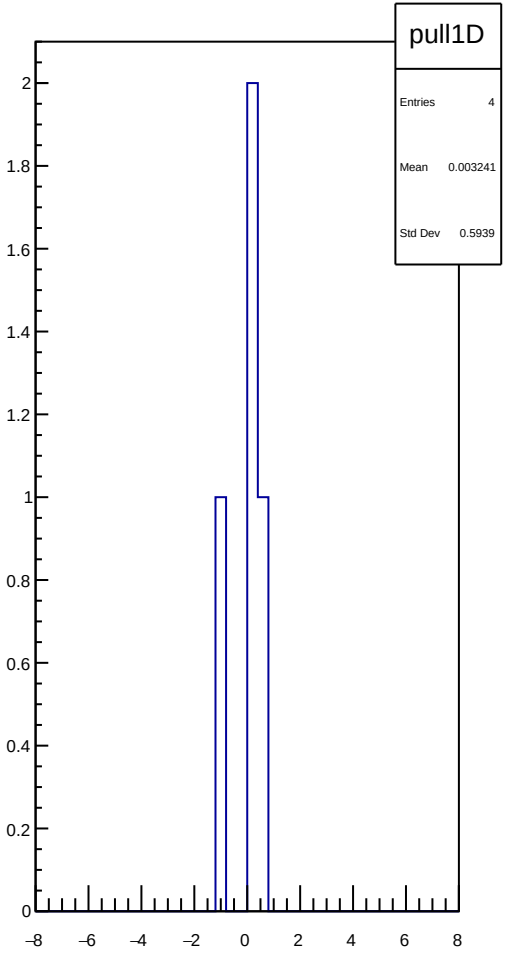

pull1D
Entries 4
Mean 0.0003747
Std Dev 0.3186
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

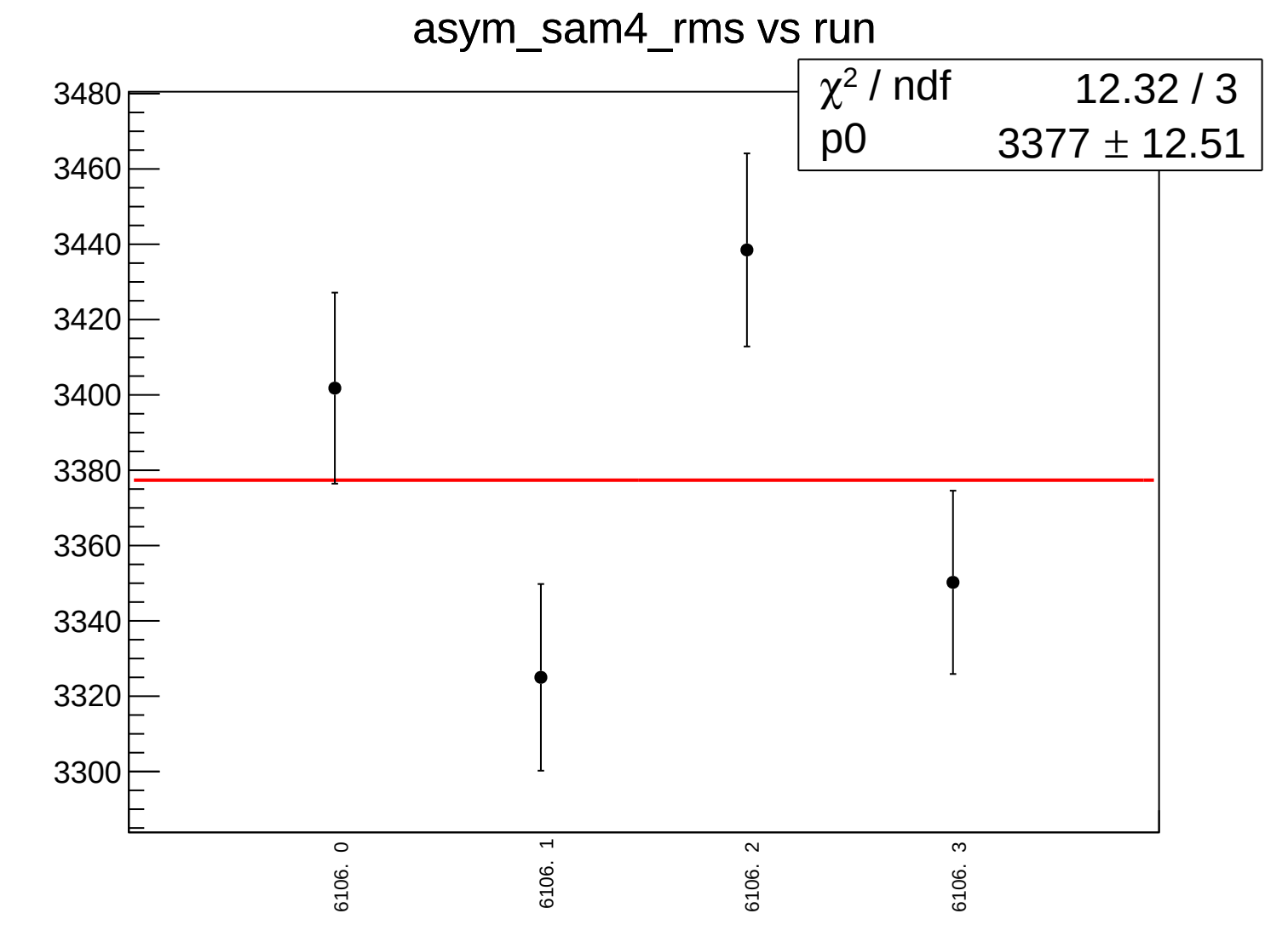

dit_asym_sam4_rms vs run
χ² / ndf 20.06 / 3
p0 290 ± 1.074
298
296
294
292
290
288
286
284
282
280
6106. 0
6106. 1
6106. 2
6106. 3

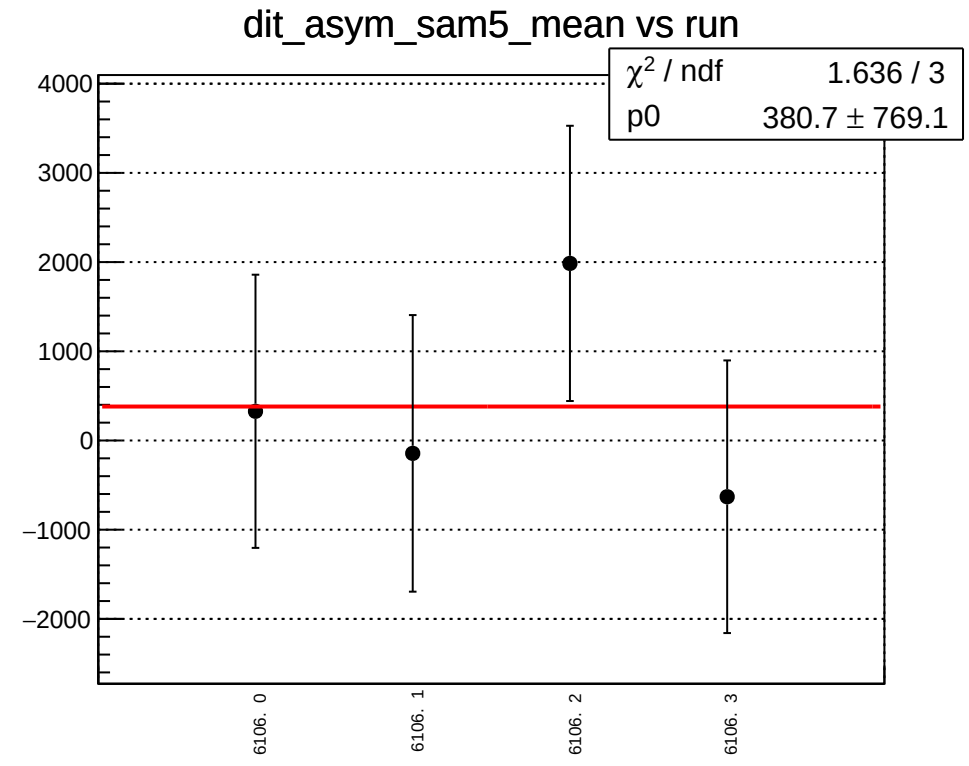

asym_sam4_correction_mean vs run
χ² / ndf 1.547 / 3
p0 6081± 1.736e+04
80000
60000
40000
20000
0
−20000
−40000
−60000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.034
Std Dev 6.687
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.006072
Std Dev 0.6218
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

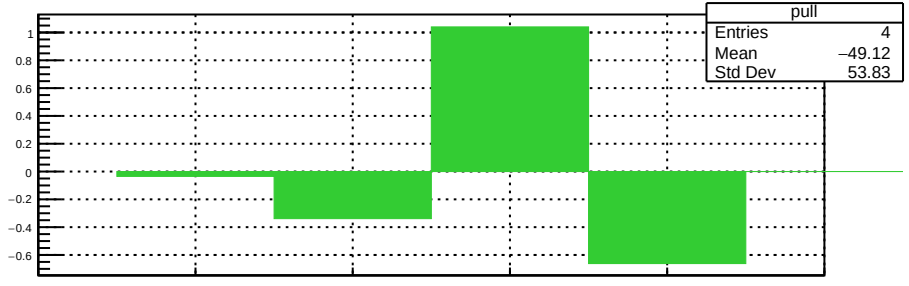

asym_sam4_correction_rms vs run
χ² / ndf 29.54 / 3
p0 3316 ± 12.28
3400
3350
3300
3250
3200
6106. 0
6106. 1
6106. 2
6106. 3

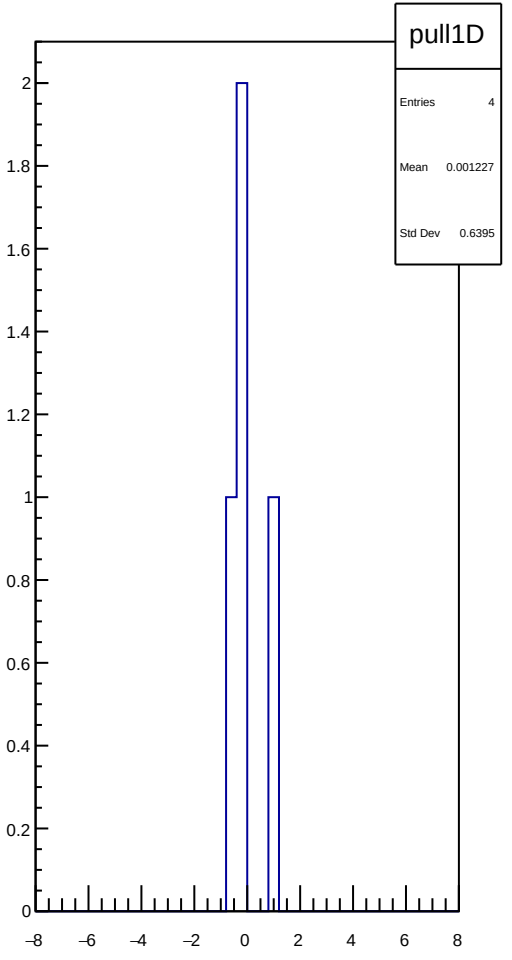

asym_sam4_mean vs run
χ² / ndf 1.411 / 3
p0 −4330 ± 1.768e+04
60000
40000
20000
0
−20000
−40000
−60000
−80000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −12.22
Std Dev 7.886
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

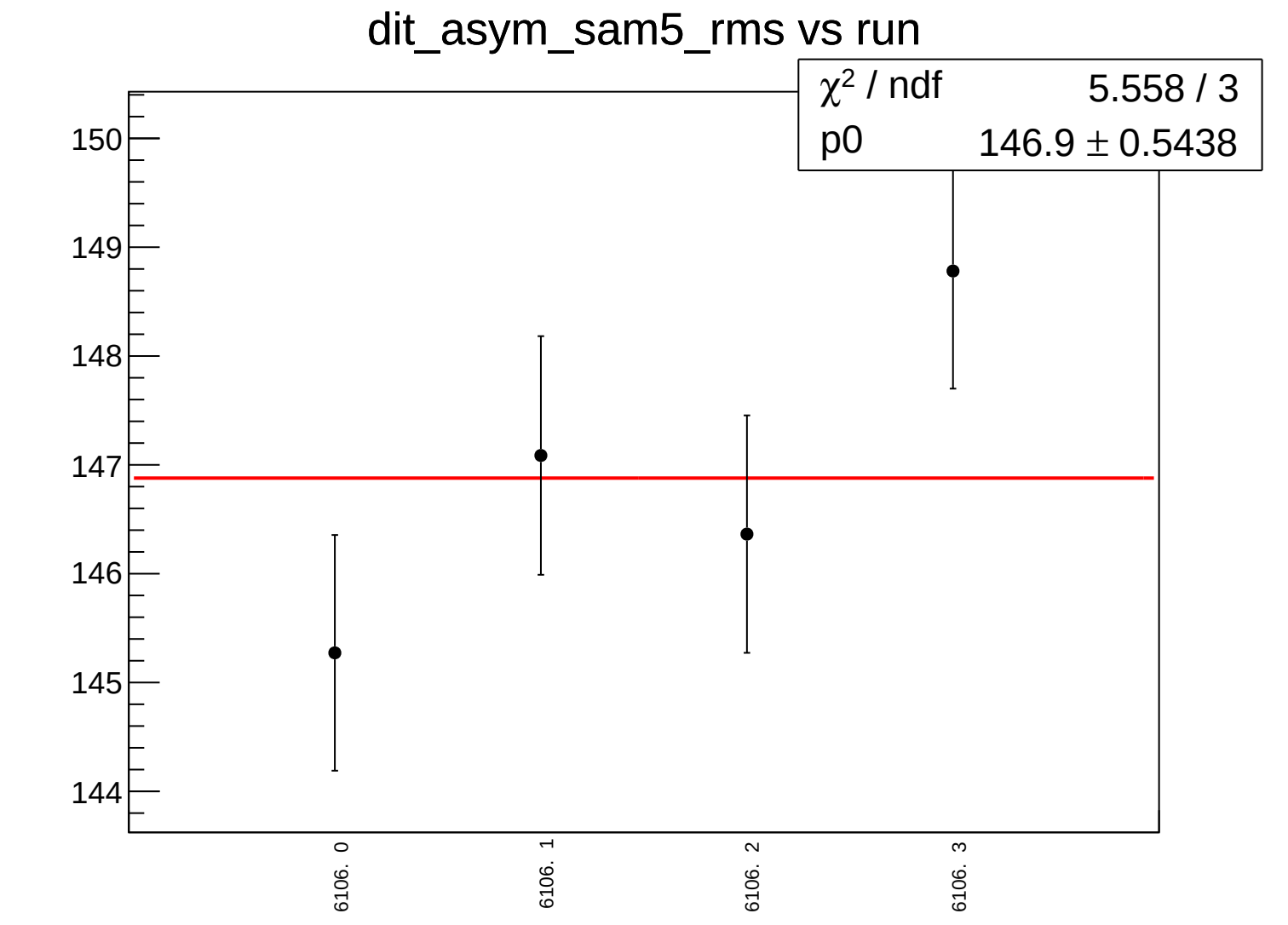

pull1D
Entries 4
Mean 0.003241
Std Dev 0.5939
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

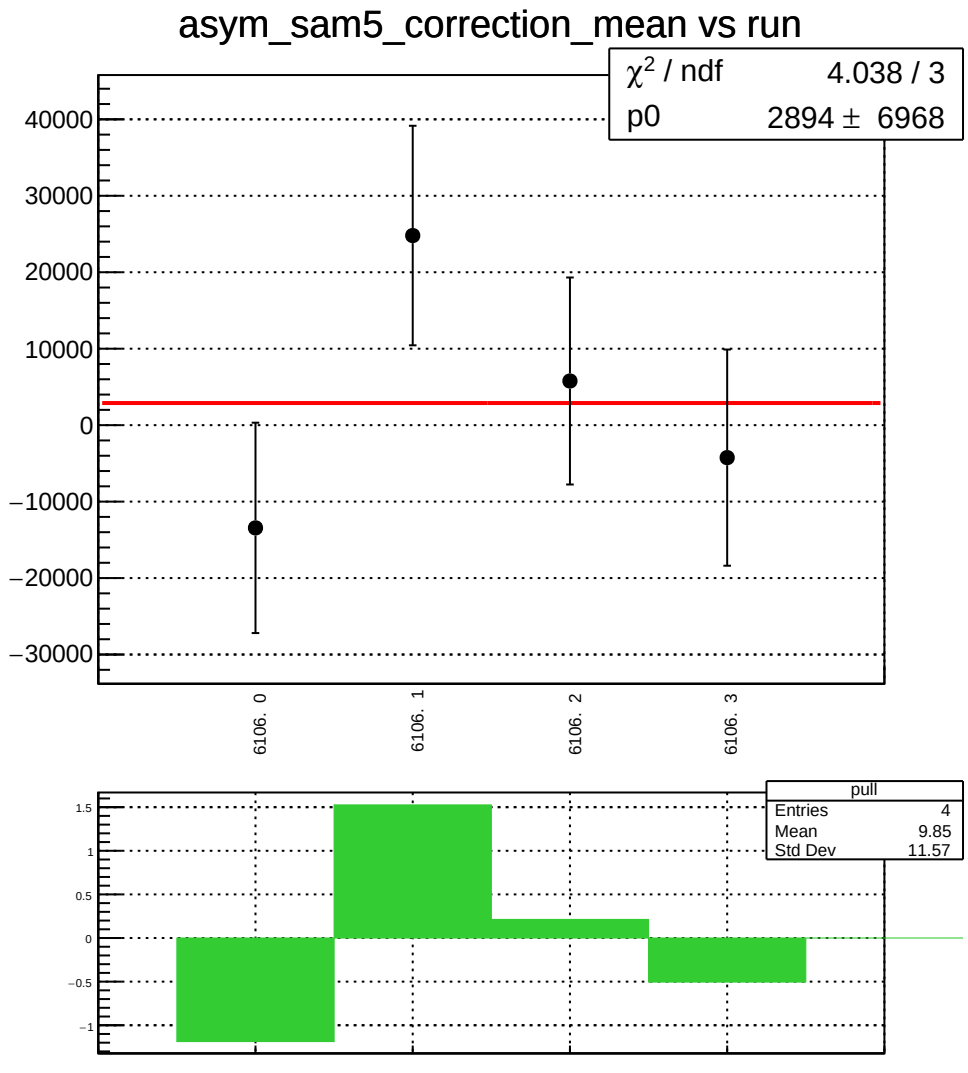

asym_sam4_rms vs run
χ² / ndf 12.32 / 3
p0 3377 ± 12.51
3480
3460
3440
3420
3400
3380
3360
3340
3320
3300
6106. 0
6106. 1
6106. 2
6106. 3

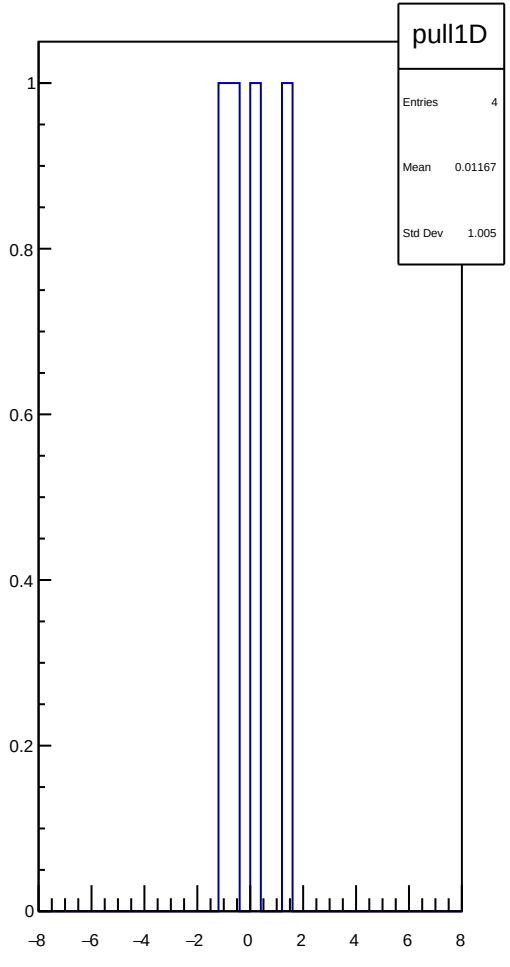

dit_asym_sam5_mean vs run
χ² / ndf 1.636 / 3
p0 380.7 ± 769.1
4000
3000
2000
1000
0
−1000
−2000
6106. 0
6106. 1
6106. 2
6106. 3

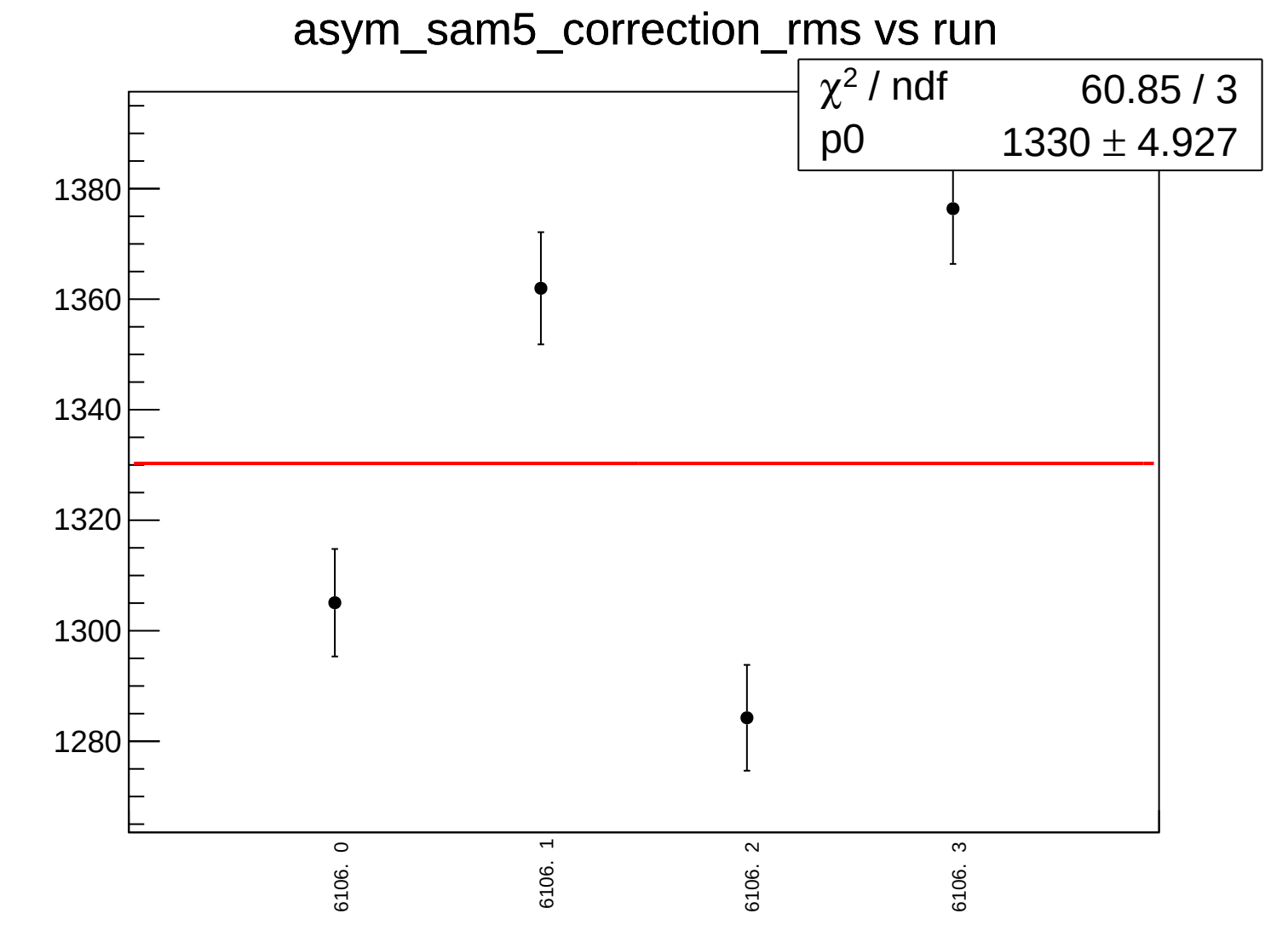

pull
Entries 4
Mean −49.12
Std Dev 53.83
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

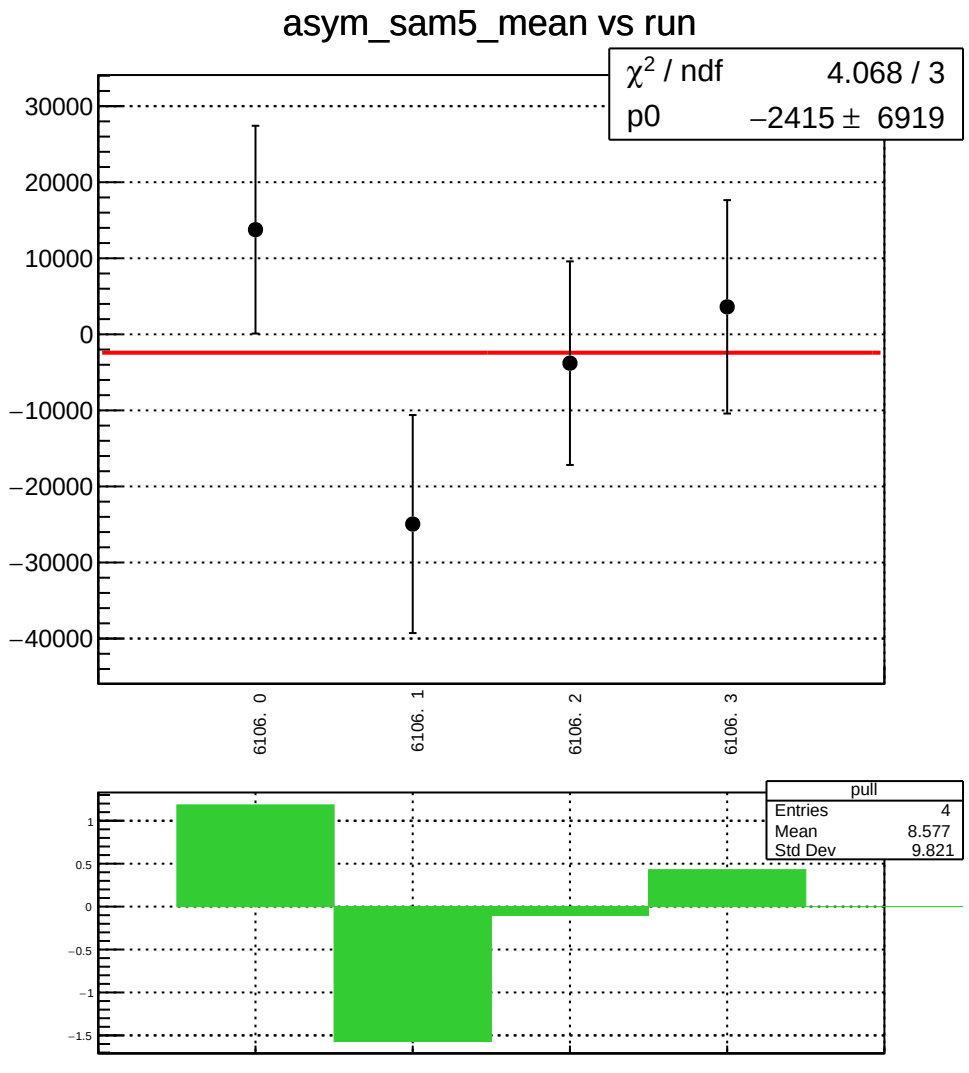

pull1D
Entries 4
Mean 0.001227
Std Dev 0.6395
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

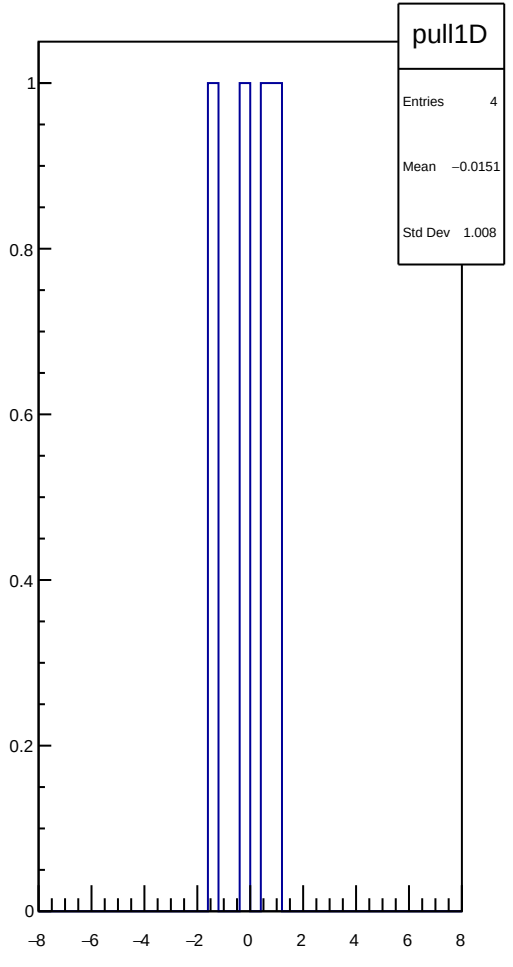

dit_asym_sam5_rms vs run
χ² / ndf 5.558 / 3
p0 146.9 ± 0.5438
150
149
148
147
146
145
144
6106. 0
6106. 1
6106. 2
6106. 3

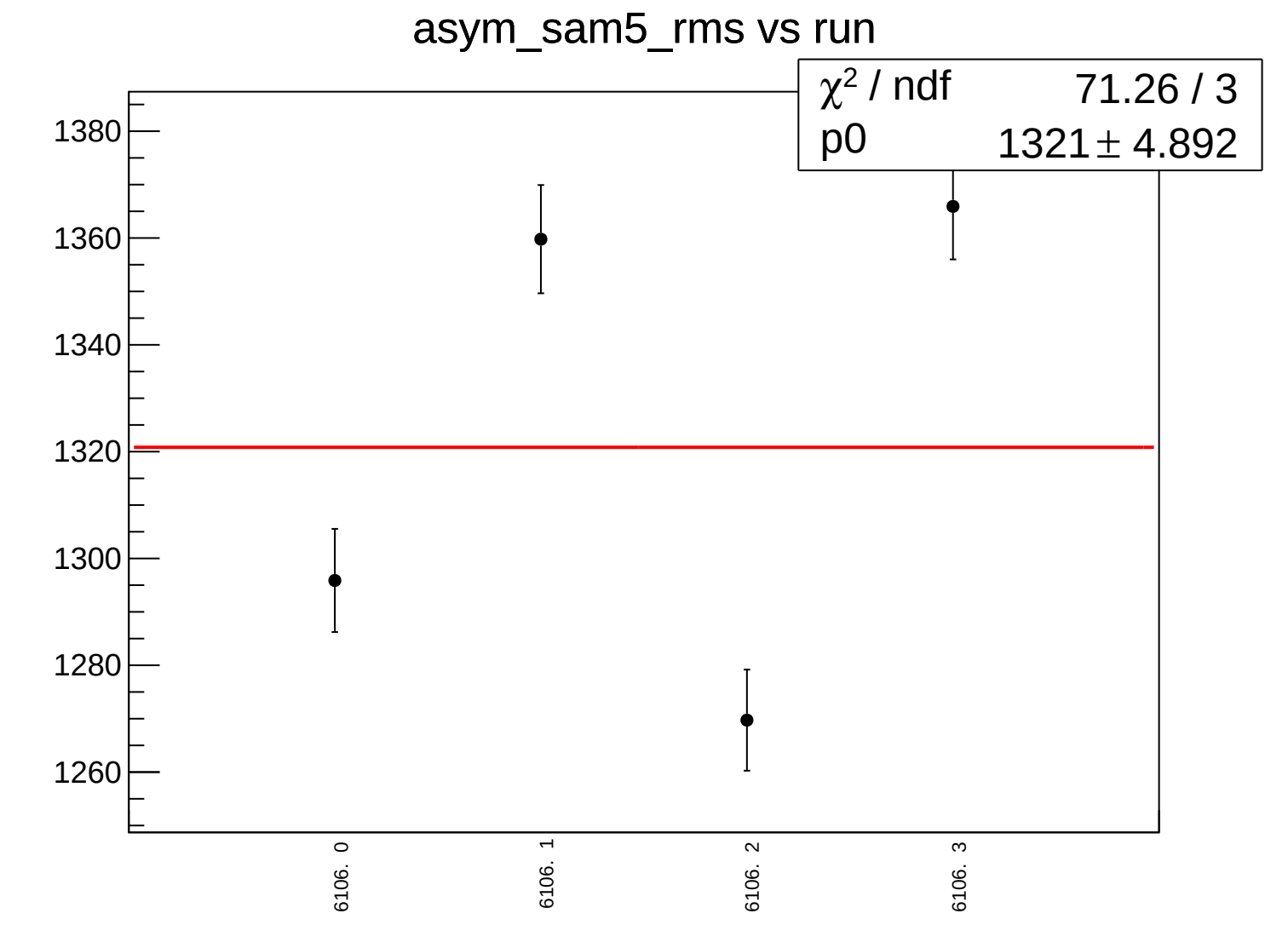

asym_sam5_correction_mean vs run
χ² / ndf 4.038 / 3
p0 2894 ± 6968
40000
30000
20000
10000
0
−10000
−20000
−30000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 9.85
Std Dev 11.57
1.5
1
0.5
0
−0.5
−1

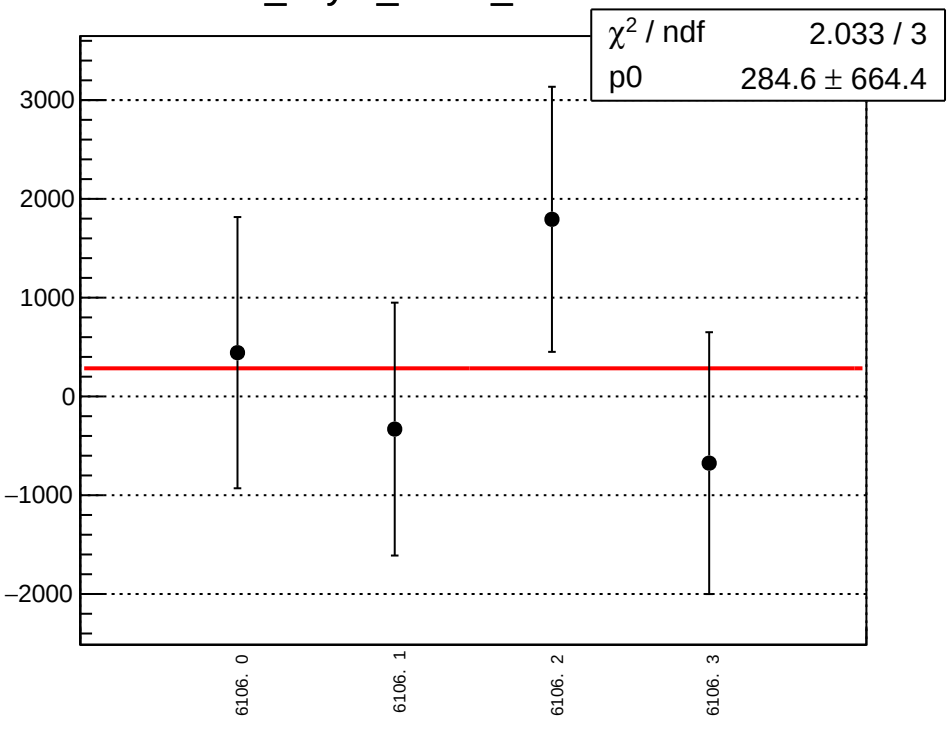

pull1D
Entries 4
Mean 0.01167
Std Dev 1.005
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

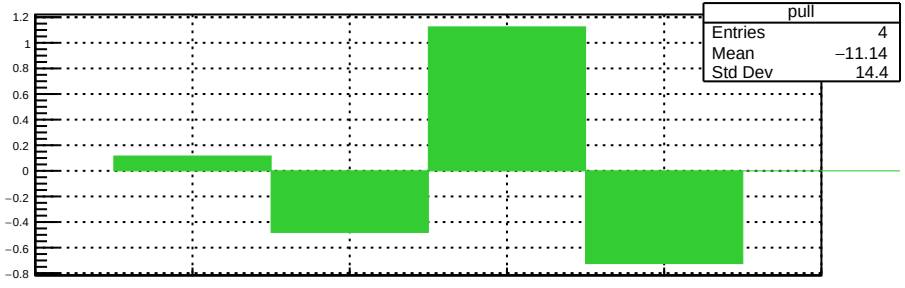

asym_sam5_correction_rms vs run
χ² / ndf 60.85 / 3
p0 1330 ± 4.927
1380
1360
1340
1320
1300
1280
6106. 0
6106. 1
6106. 2
6106. 3

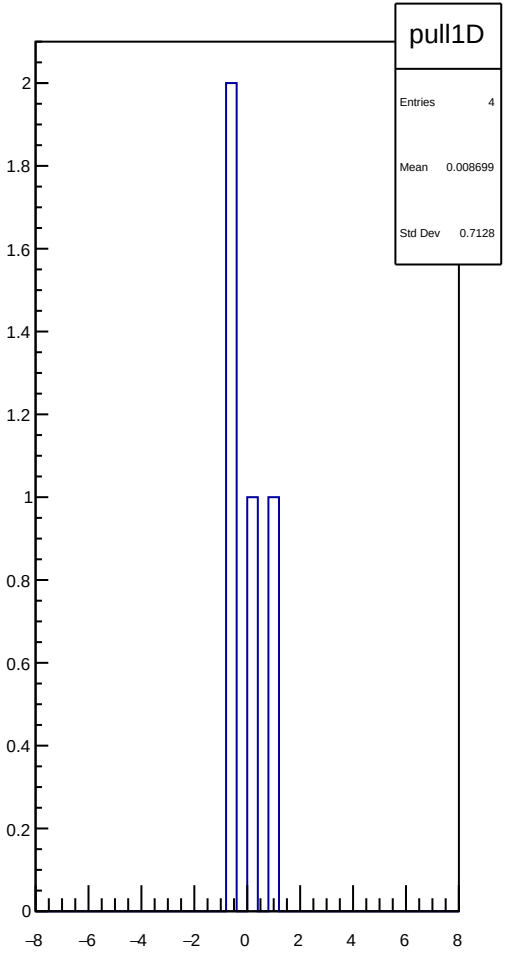

asym_sam5_mean vs run
χ² / ndf 4.068 / 3
p0 −2415 ± 6919
30000
20000
10000
0
−10000
−20000
−30000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 8.577
Std Dev 9.821
1
0.5
0
−0.5
−1
−1.5

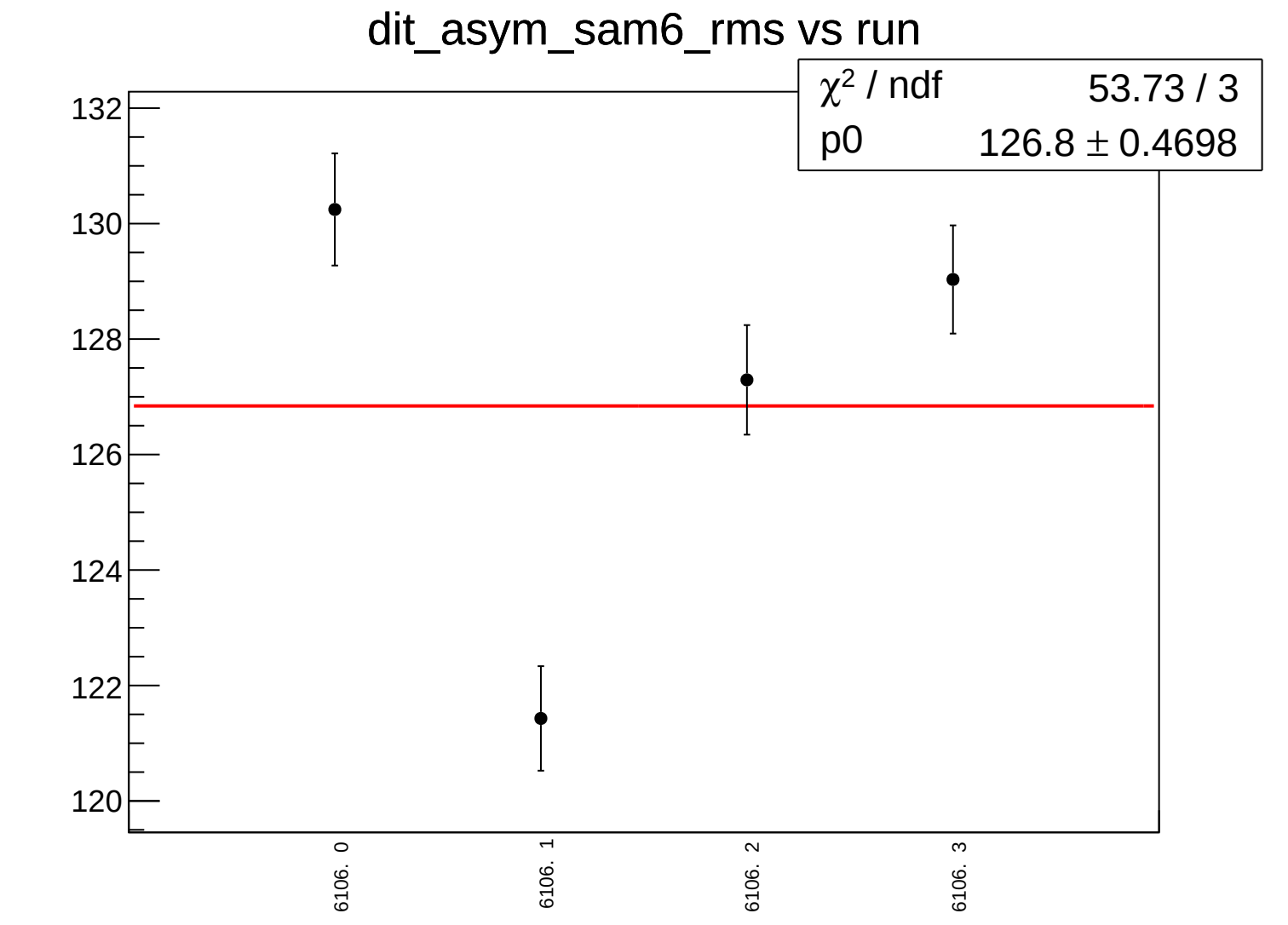

pull1D
Entries 4
Mean −0.0151
Std Dev 1.008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

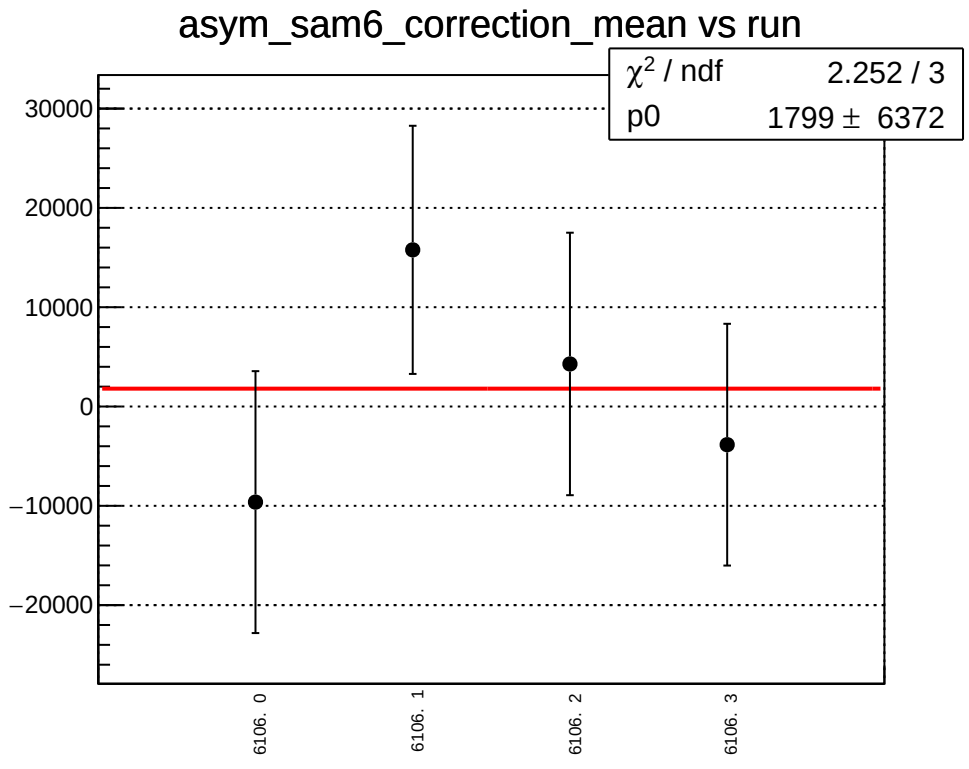

asym_sam5_rms vs run
χ² / ndf 71.26 / 3
p0 1321 ± 4.892
1380
1360
1340
1320
1300
1280
1260
6106. 0
6106. 1
6106. 2
6106. 3

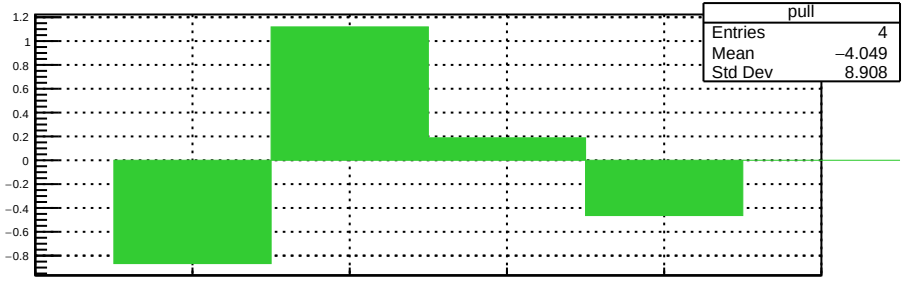

dit_asym_sam6_mean vs run
χ² / ndf 2.033 / 3
p0 284.6 ± 664.4
3000
2000
1000
0
−1000
−2000
6106. 0
6106. 1
6106. 2
6106. 3

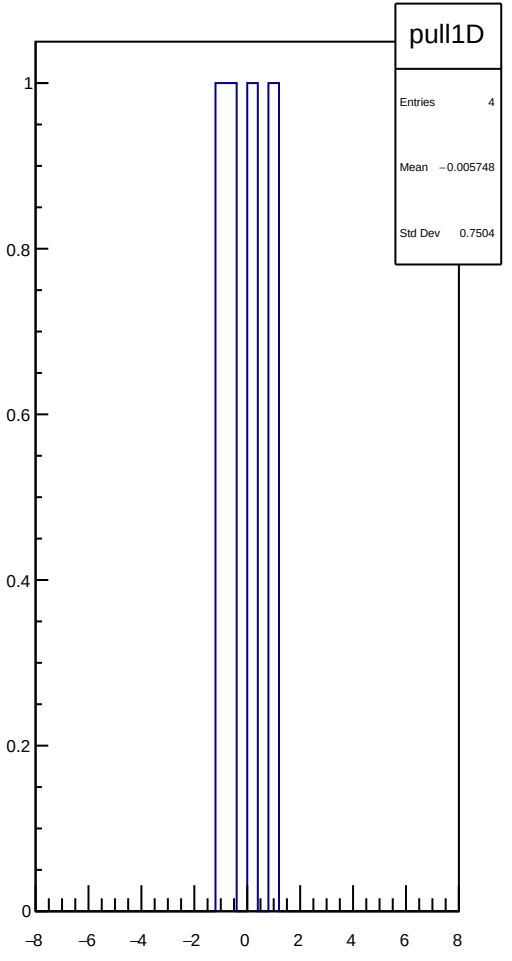

pull
Entries 4
Mean −11.14
Std Dev 14.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

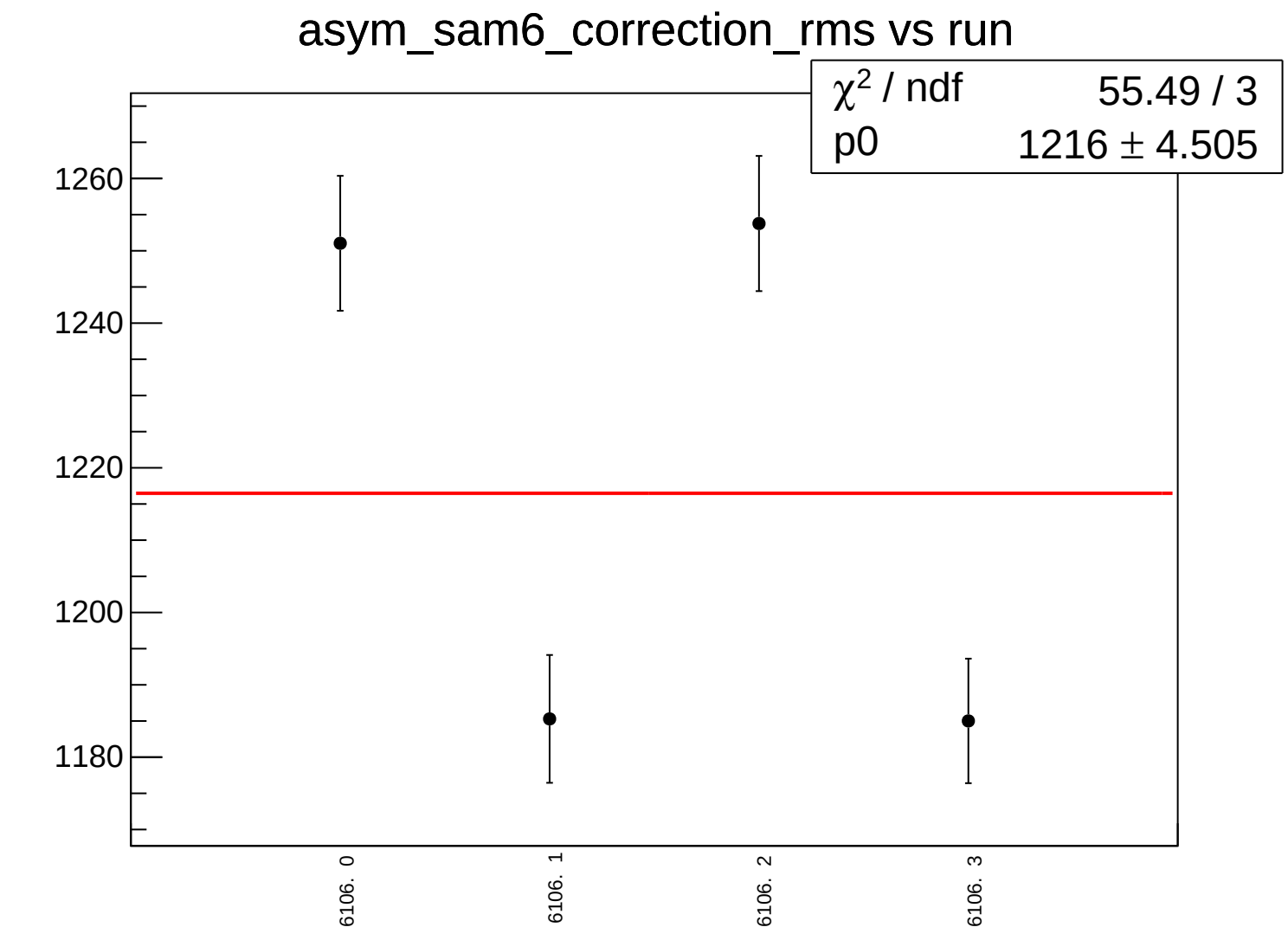

pull1D
Entries 4
Mean 0.008699
Std Dev 0.7128
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

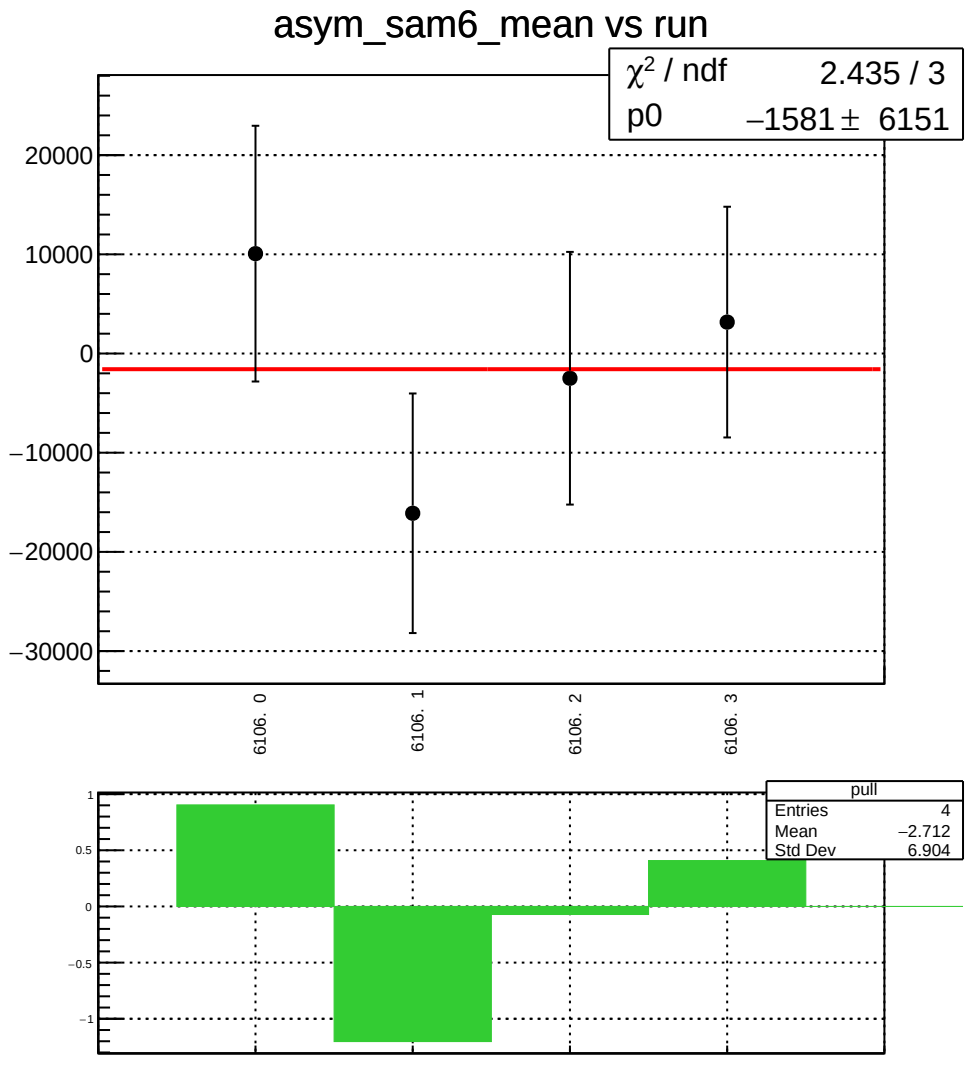

dit_asym_sam6_rms vs run
χ² / ndf 53.73 / 3
p0 126.8 ± 0.4698
132
130
128
126
124
122
120
6106. 0
6106. 1
6106. 2
6106. 3

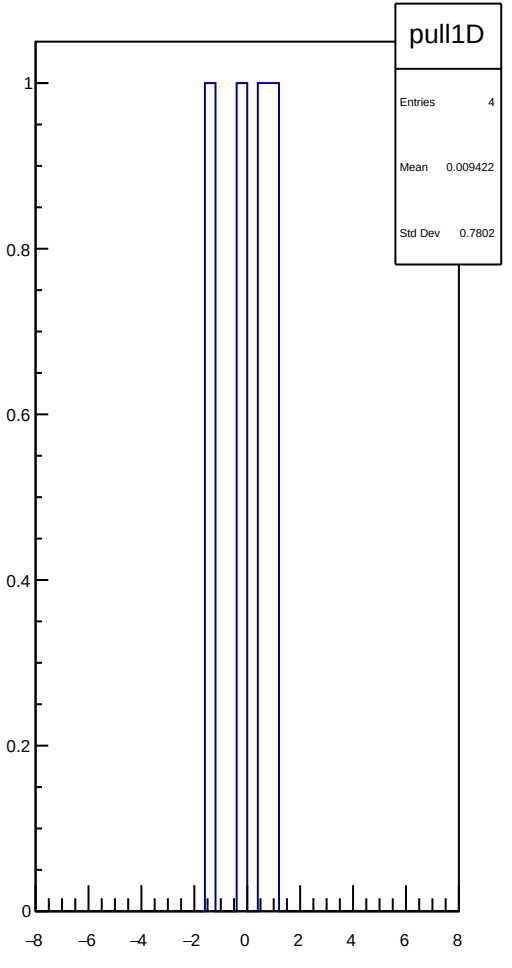

asym_sam6_correction_mean vs run
χ² / ndf 2.252 / 3
p0 1799 ± 6372
30000
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3

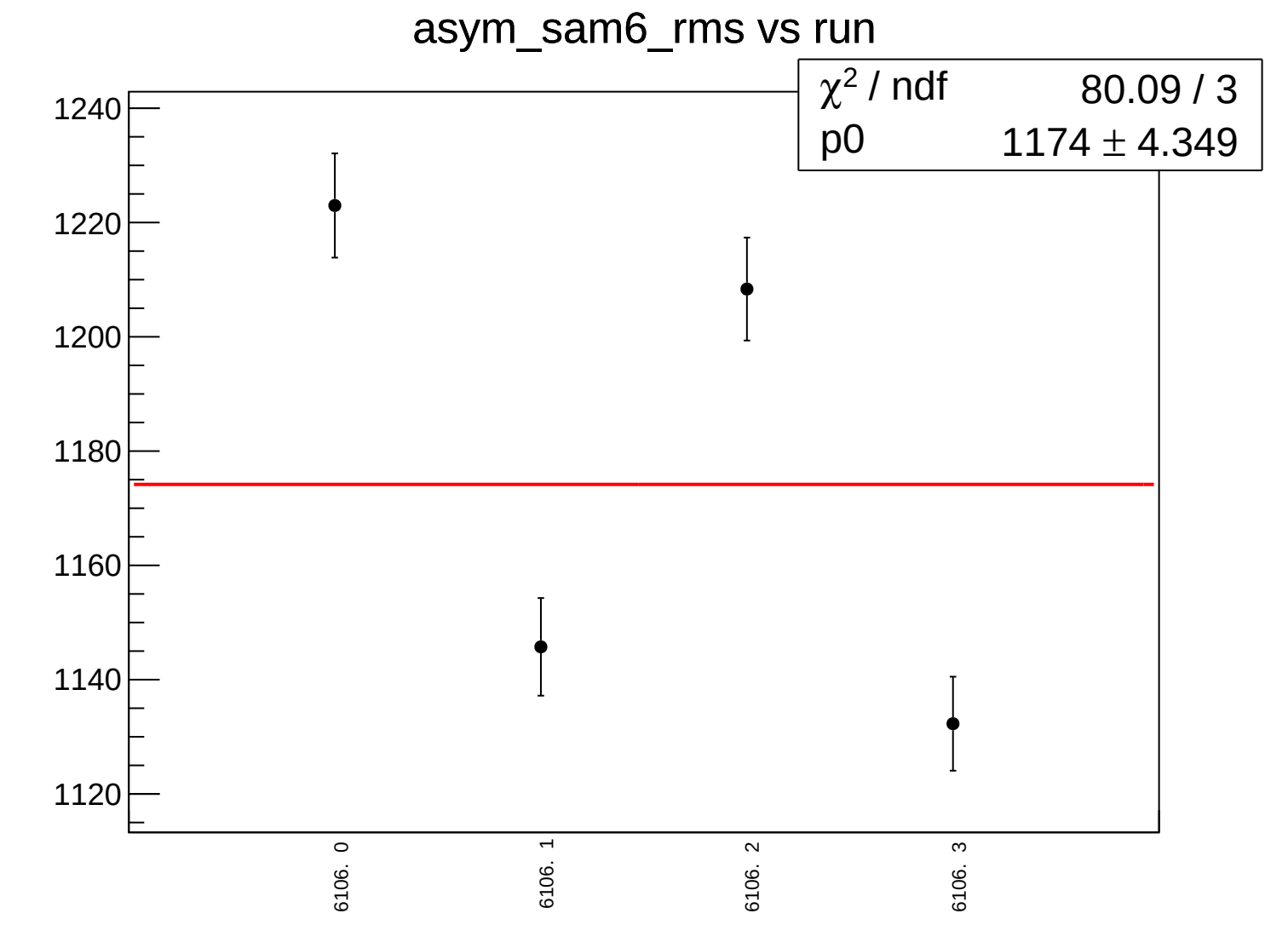

pull
Entries 4
Mean −4.049
Std Dev 8.908
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

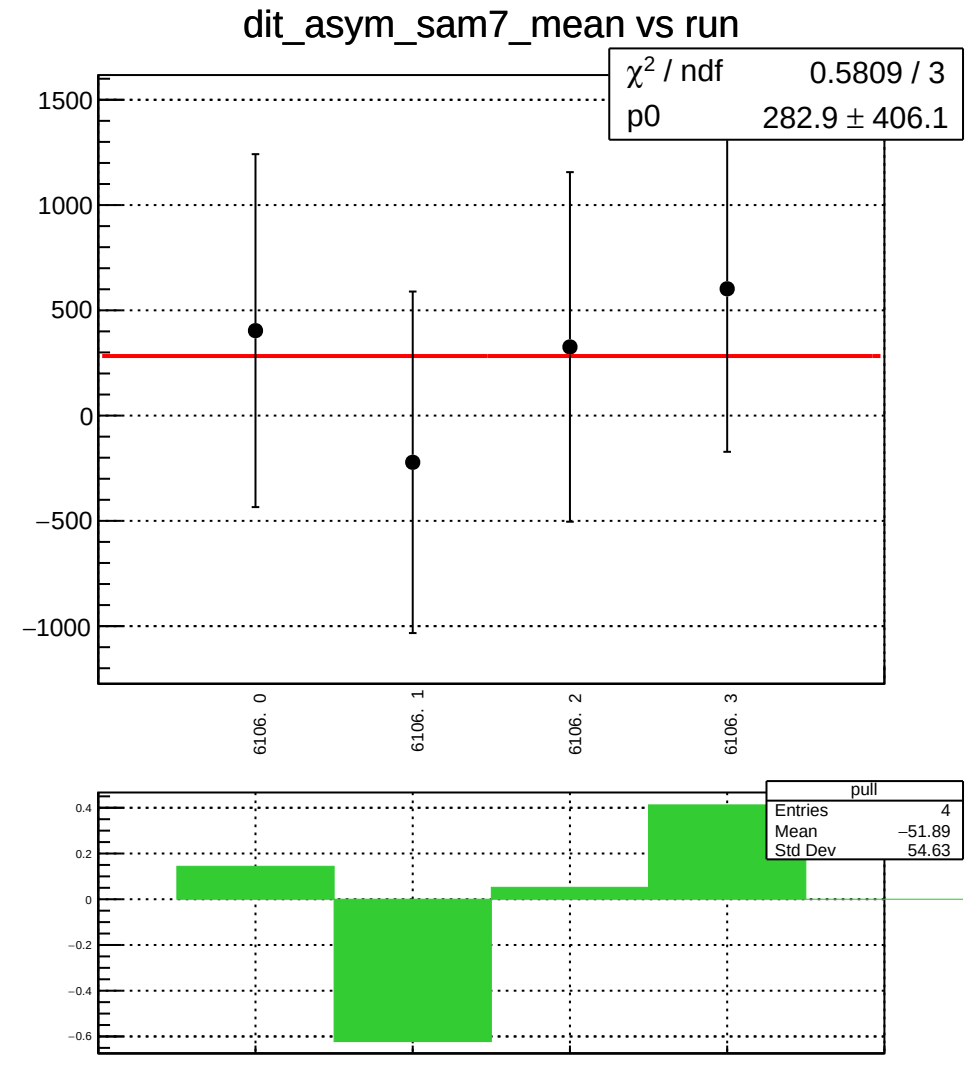

pull1D
Entries 4
Mean −0.005748
Std Dev 0.7504
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

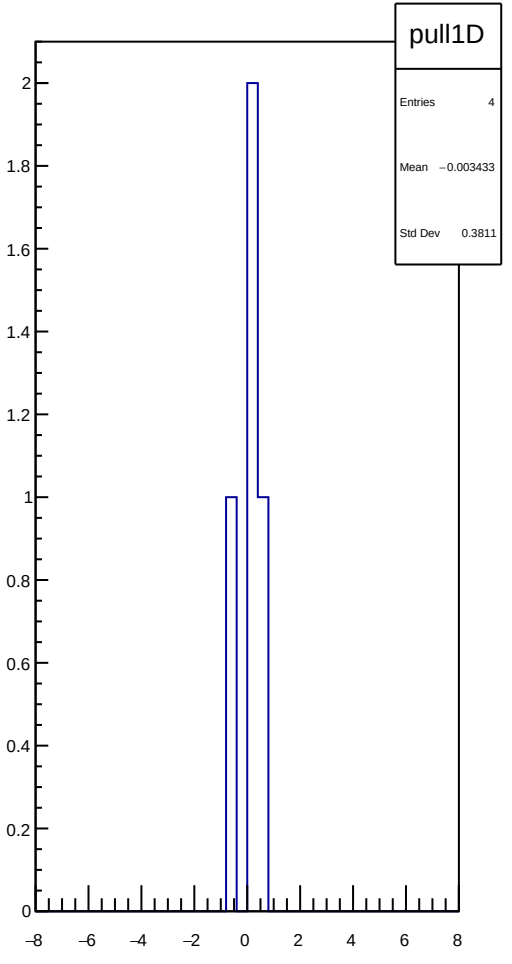

asym_sam6_correction_rms vs run
χ² / ndf 55.49 / 3
p0 1216 ± 4.505
1260
1240
1220
1200
1180
6106. 0
6106. 1
6106. 2
6106. 3

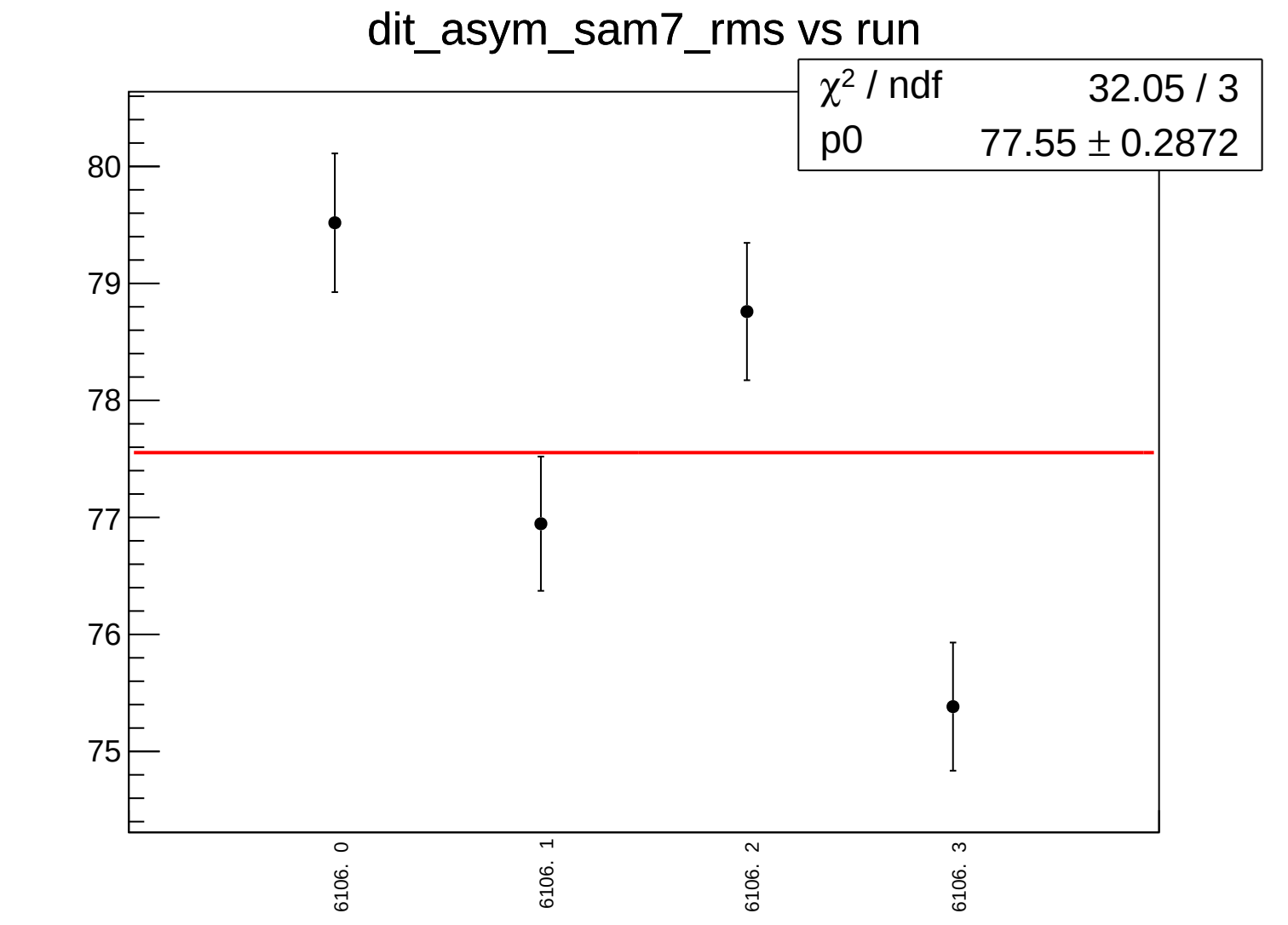

asym_sam6_mean vs run
χ² / ndf 2.435 / 3
p0 −1581 ± 6151
20000
10000
0
−10000
−20000
−30000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.712
Std Dev 6.904
1
0.5
0
−0.5
−1

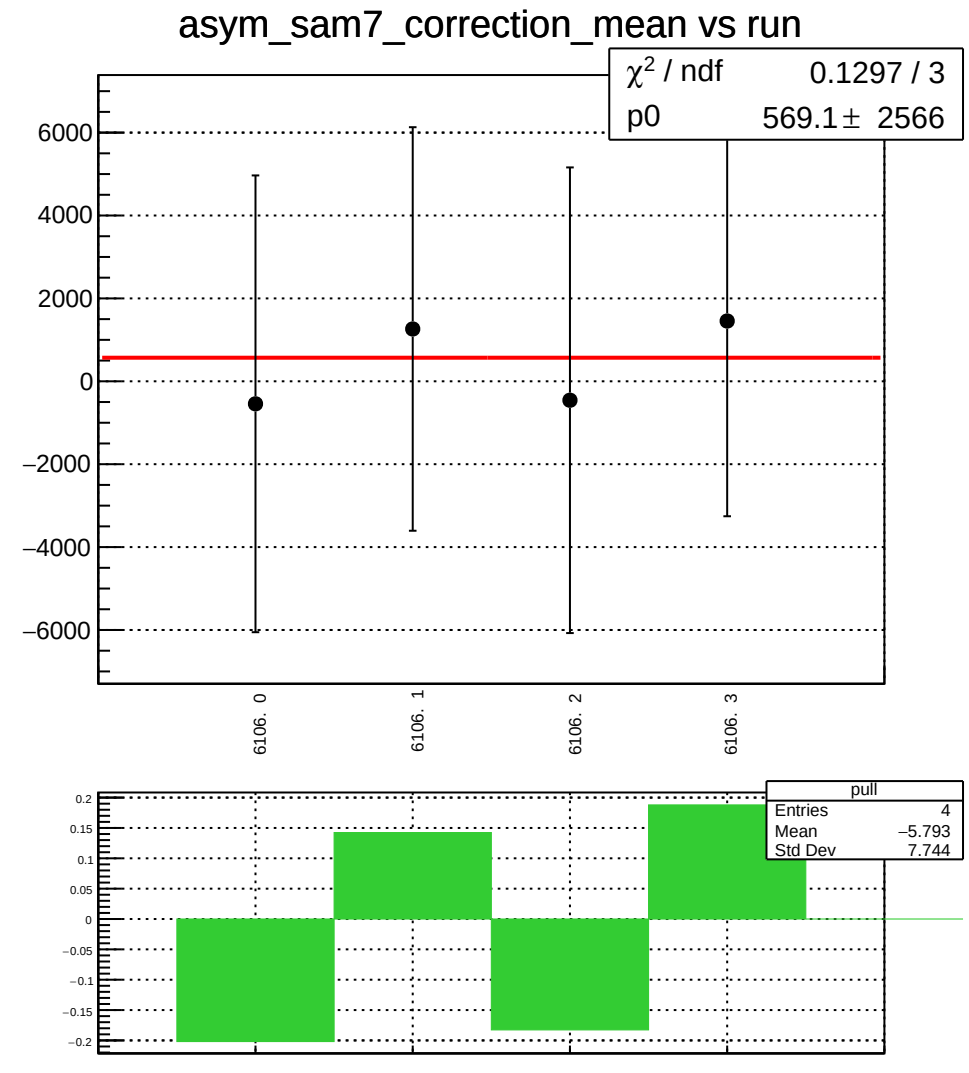

pull1D
Entries 4
Mean 0.009422
Std Dev 0.7802
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

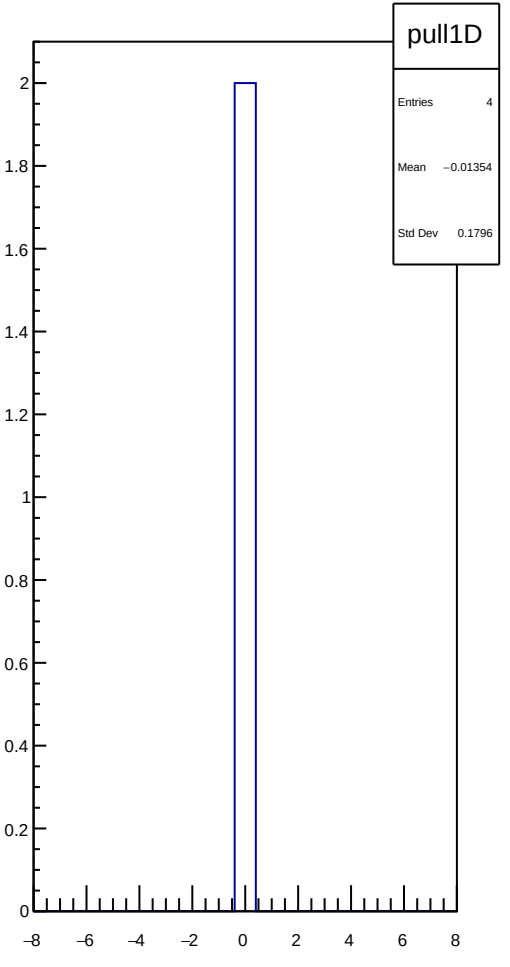

asym_sam6_rms vs run
χ² / ndf 80.09 / 3
p0 1174 ± 4.349
1240
1220
1200
1180
1160
1140
1120
6106. 0
6106. 1
6106. 2
6106. 3

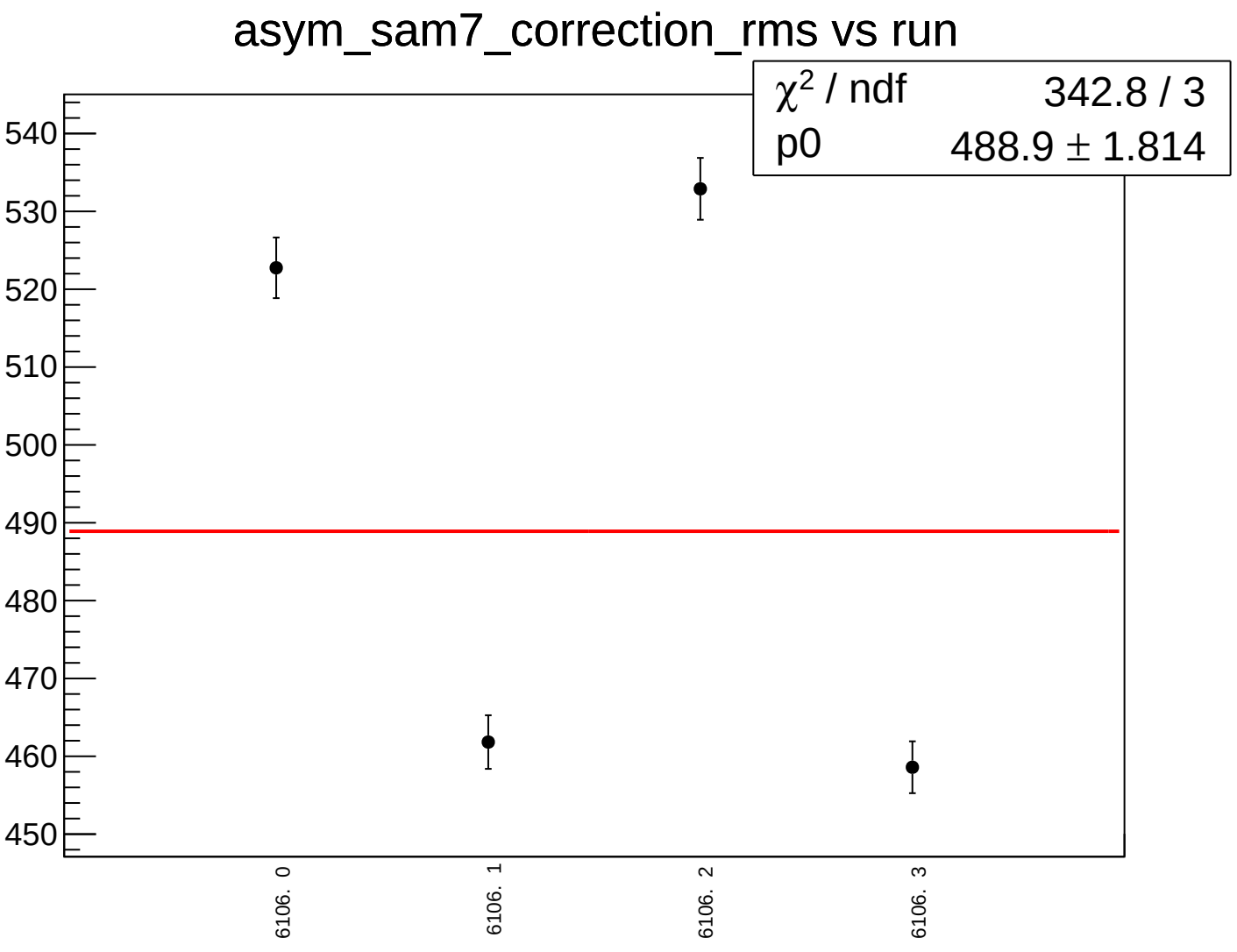

dit_asym_sam7_mean vs run
χ² / ndf 0.5809 / 3
p0 282.9 ± 406.1
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −51.89
Std Dev 54.63
0.4
0.2
0
−0.2
−0.4
−0.6

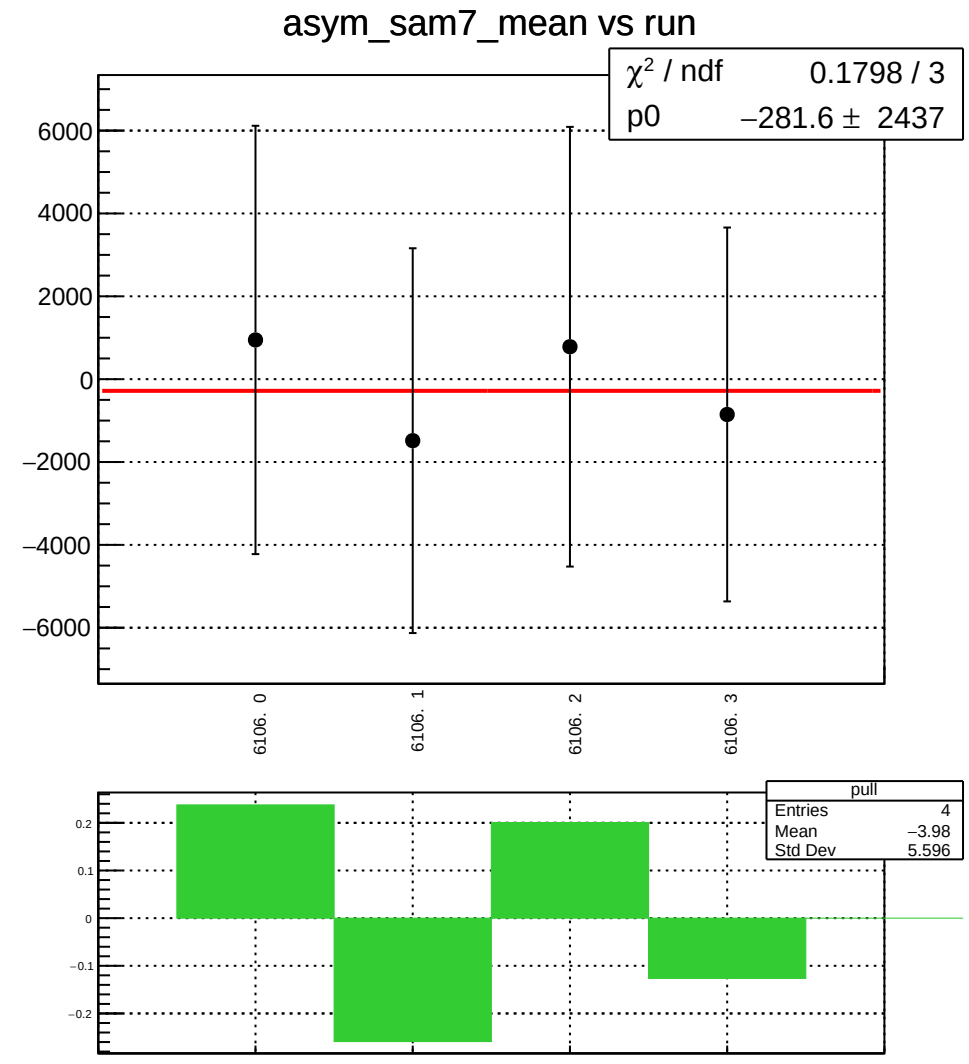

pull1D
Entries 4
Mean −0.003433
Std Dev 0.3811
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

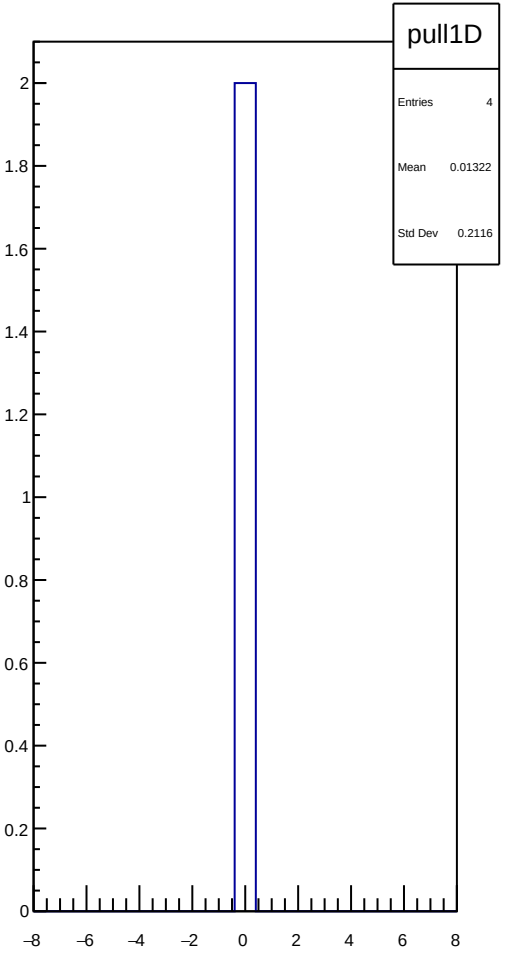

dit_asym_sam7_rms vs run
χ² / ndf 32.05 / 3
p0 77.55 ± 0.2872
80
79
78
77
76
75
6106. 0
6106. 1
6106. 2
6106. 3

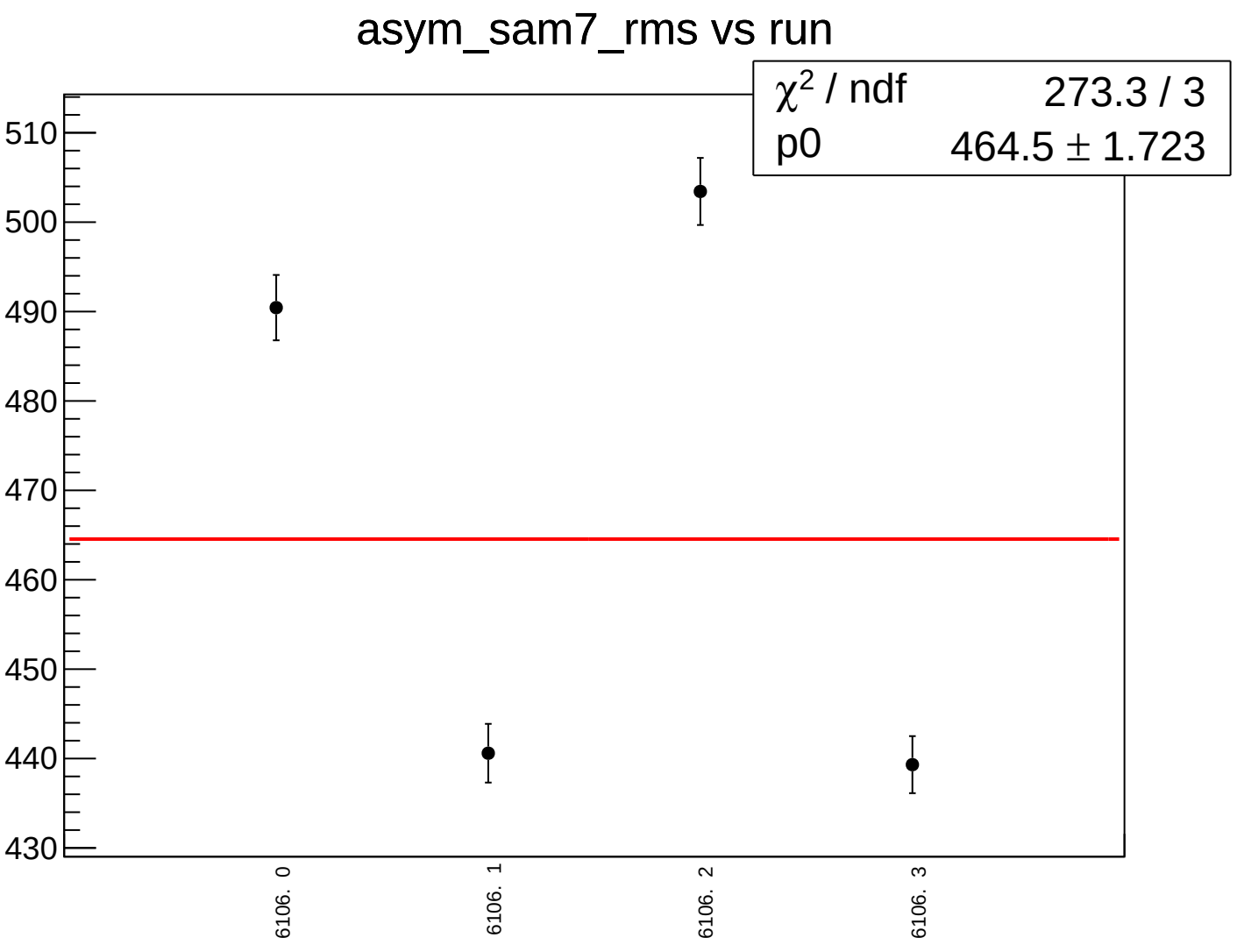

asym_sam7_correction_mean vs run
χ² / ndf 0.1297 / 3
p0 569.1 ± 2566
6000
4000
2000
0
−2000
−4000
−6000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −5.793
Std Dev 7.744
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

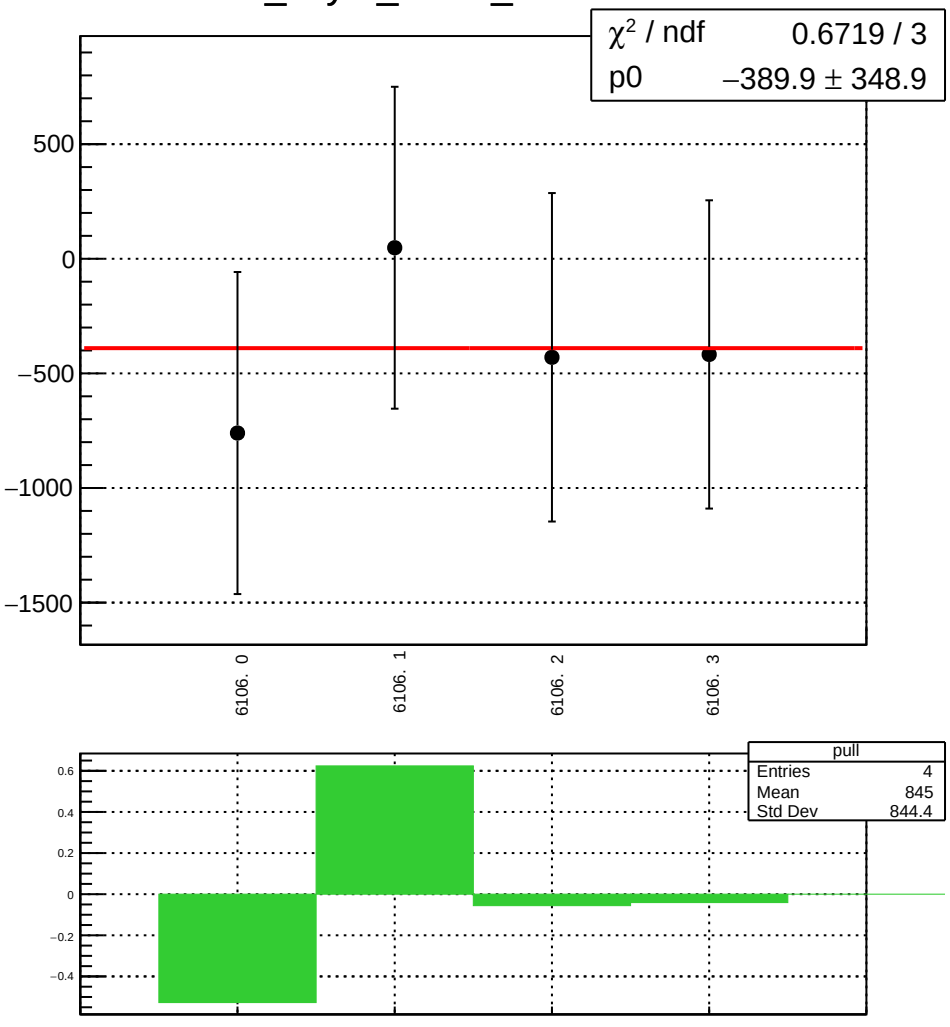

pull1D
Entries 4
Mean −0.01354
Std Dev 0.1796
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

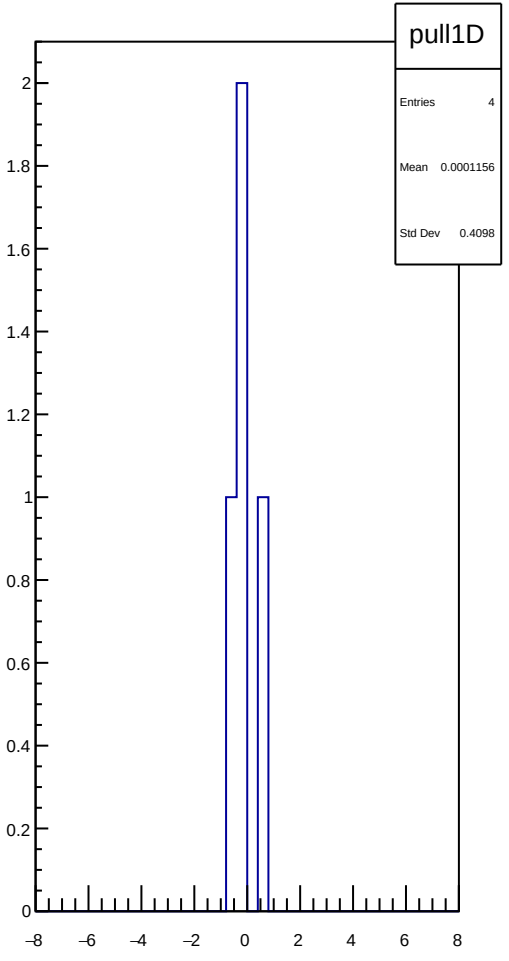

asym_sam7_correction_rms vs run
χ² / ndf 342.8 / 3
p0 488.9 ± 1.814
540
530
520
510
500
490
480
470
460
450
6106. 0
6106. 1
6106. 2
6106. 3

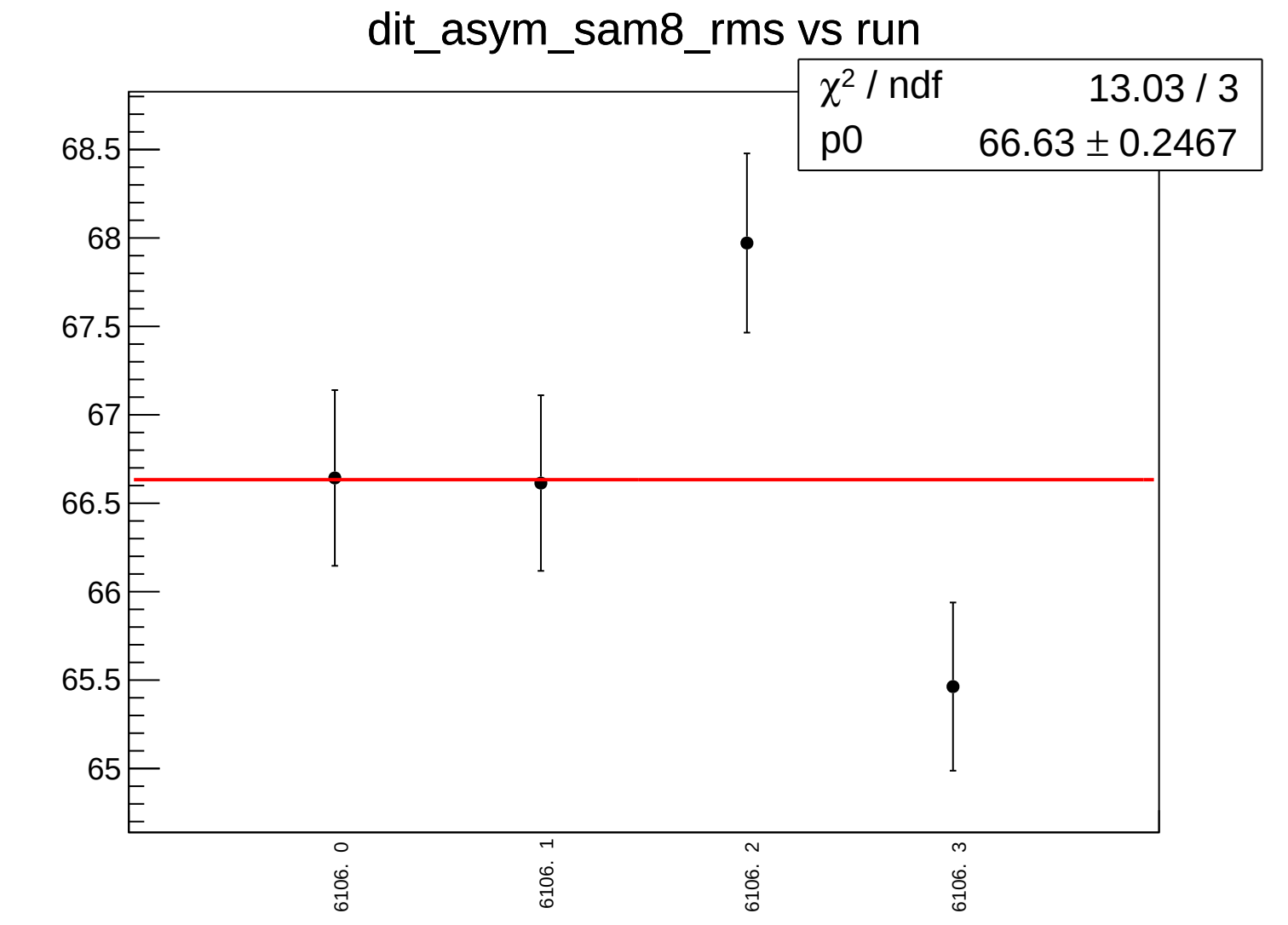

asym_sam7_mean vs run
χ² / ndf 0.1798 / 3
p0 −281.6 ± 2437
6000
4000
2000
0
−2000
−4000
−6000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.98
Std Dev 5.596
0.2
0.1
0
−0.1
−0.2

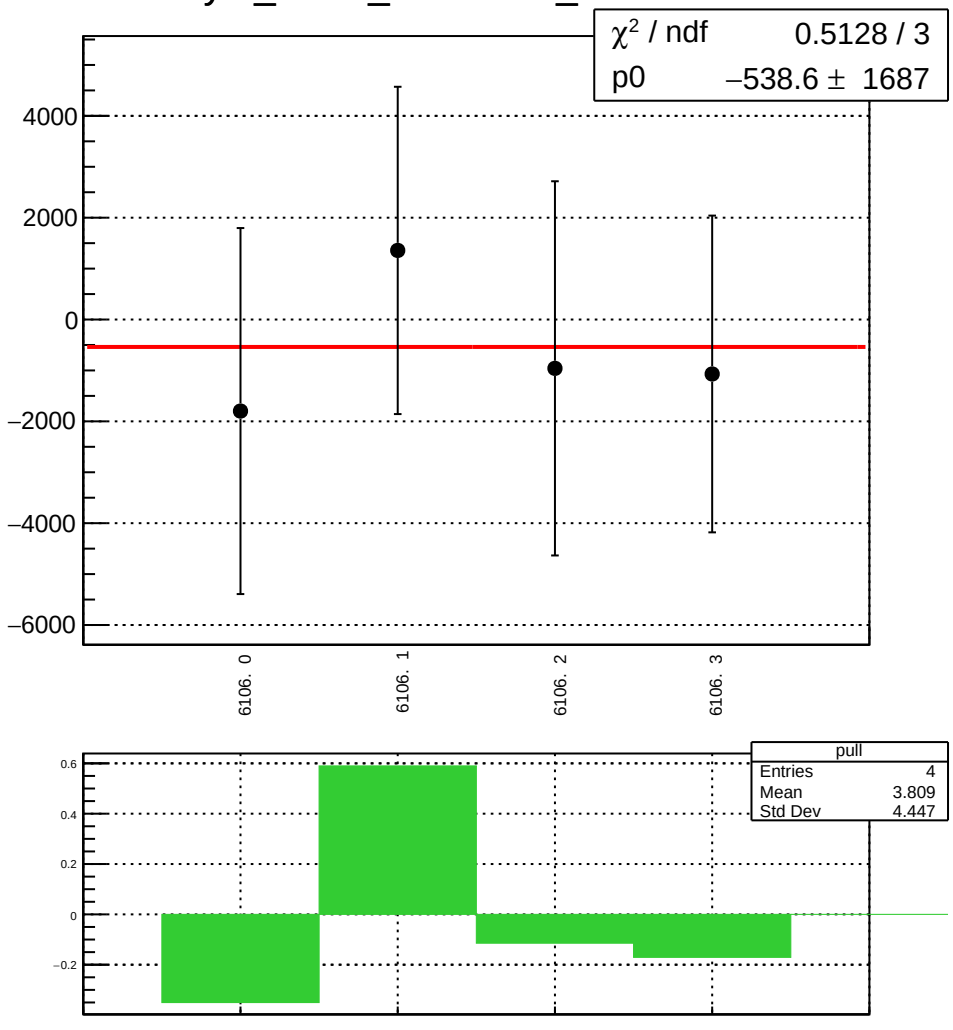

pull1D
Entries 4
Mean 0.01322
Std Dev 0.2116
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

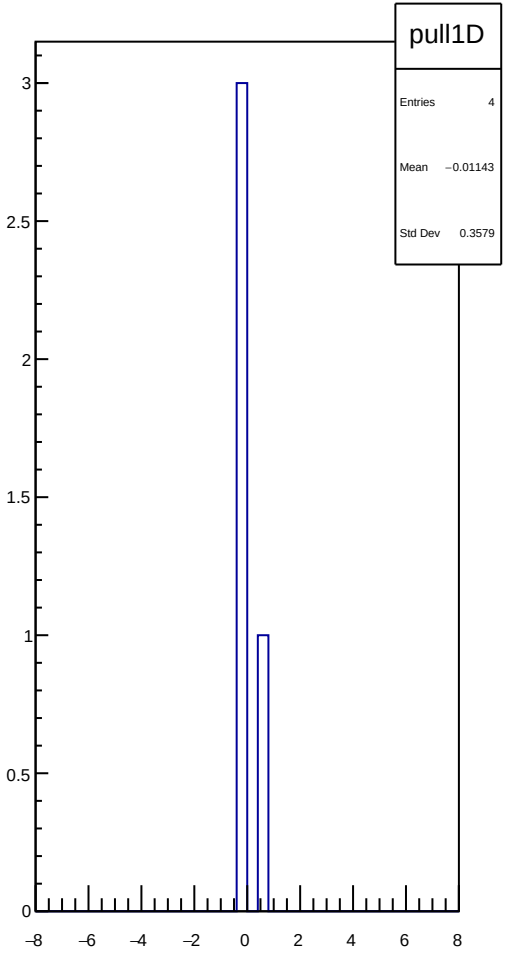

asym_sam7_rms vs run
χ² / ndf 273.3 / 3
p0 464.5 ± 1.723
510
500
490
480
470
460
450
440
430
6106. 0
6106. 1
6106. 2
6106. 3

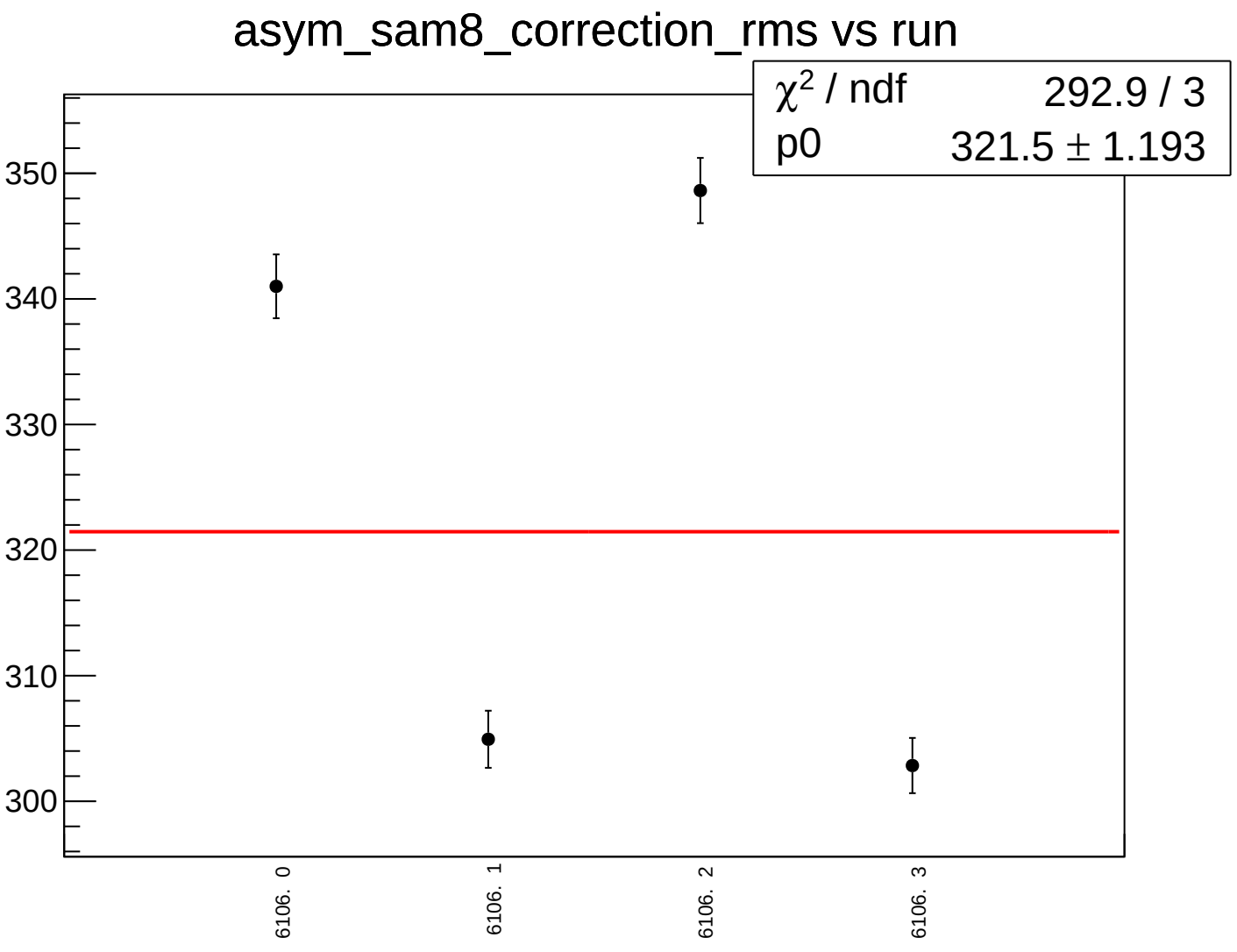

dit_asym_sam8_mean vs run
χ² / ndf 0.6719 / 3
p0 −389.9 ± 348.9
500
0
−500
−1000
−1500
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 845
Std Dev 844.4
0.6
0.4
0.2
0
−0.2
−0.4

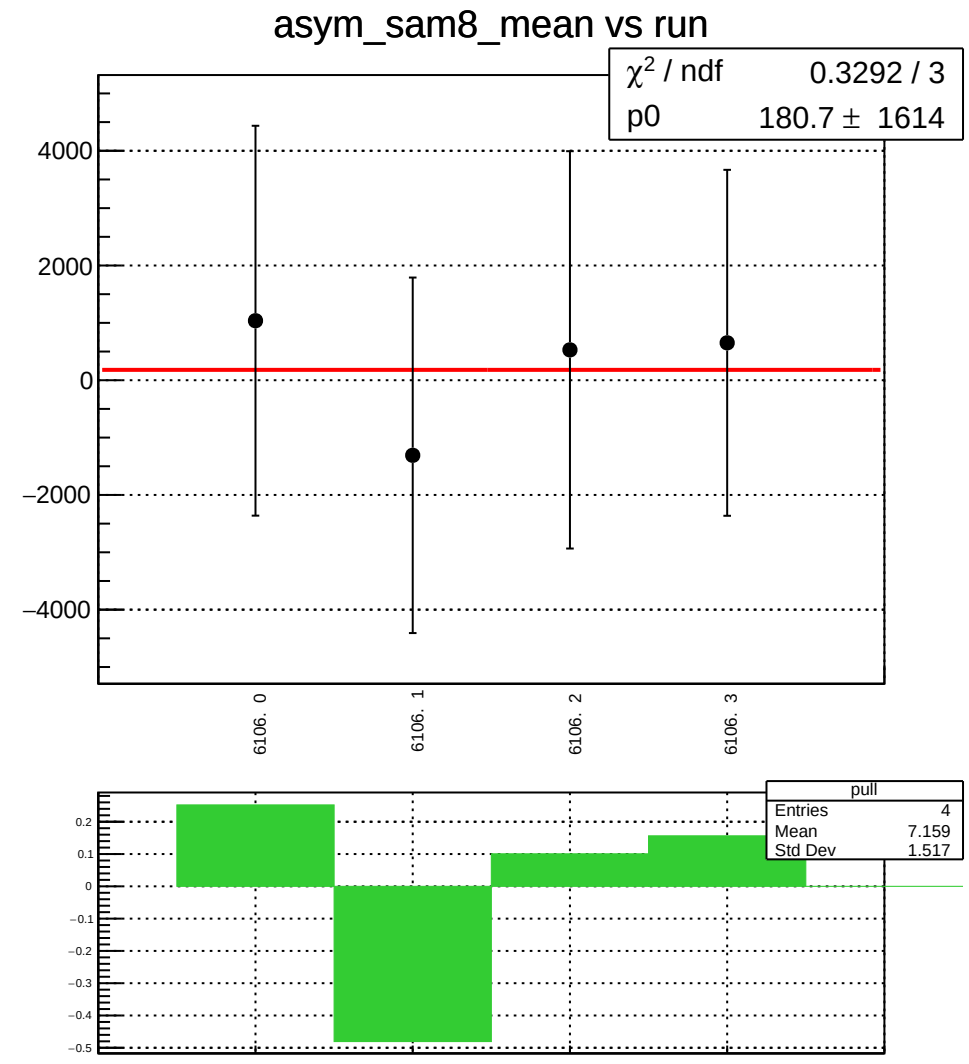

pull1D
Entries 4
Mean 0.0001156
Std Dev 0.4098
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

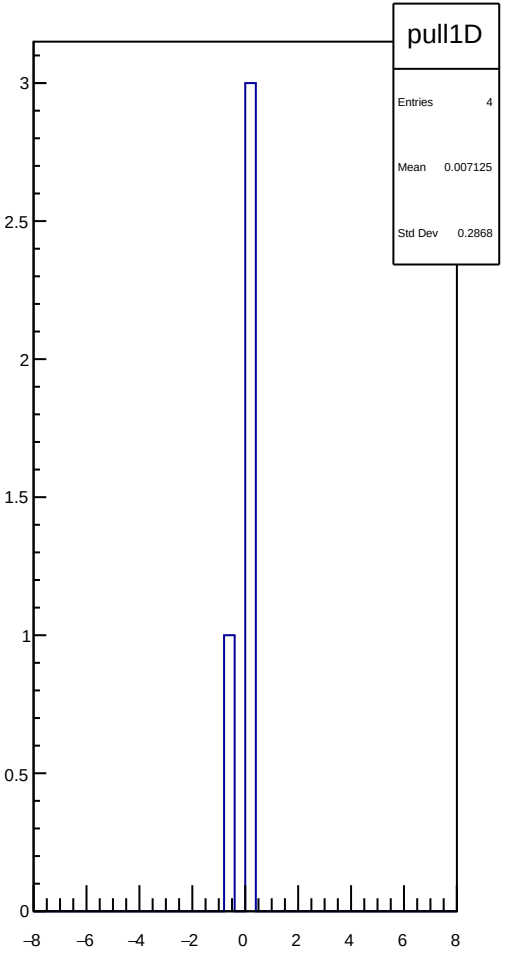

dit_asym_sam8_rms vs run
χ² / ndf 13.03 / 3
p0 66.63 ± 0.2467
68.5
68
67.5
67
66.5
66
65.5
65
6106. 0
6106. 1
6106. 2
6106. 3

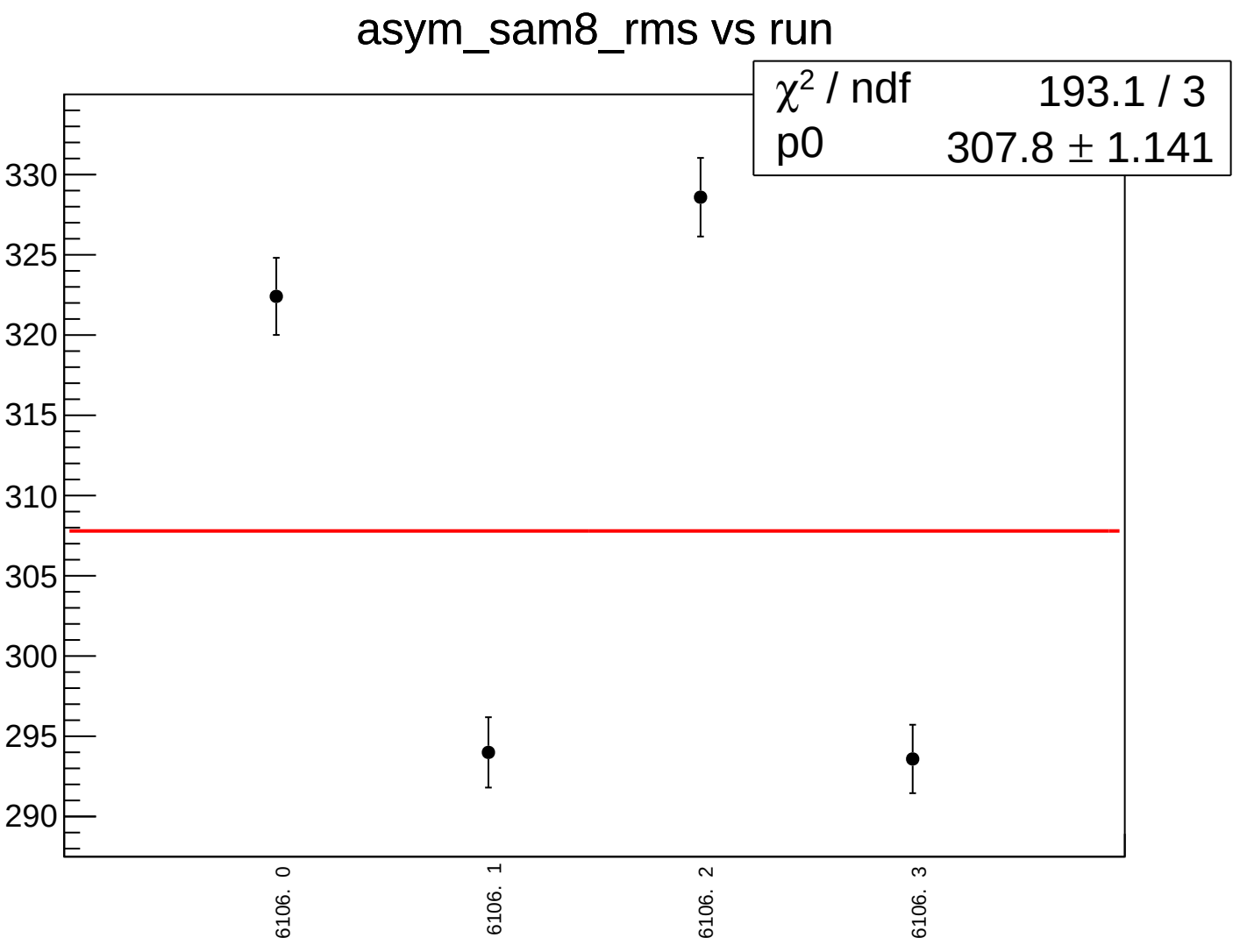

asym_sam8_correction_mean vs run
χ² / ndf 0.5128 / 3
p0 −538.6 ± 1687
4000
2000
0
−2000
−4000
−6000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 3.809
Std Dev 4.447
0.6
0.4
0.2
0
−0.2

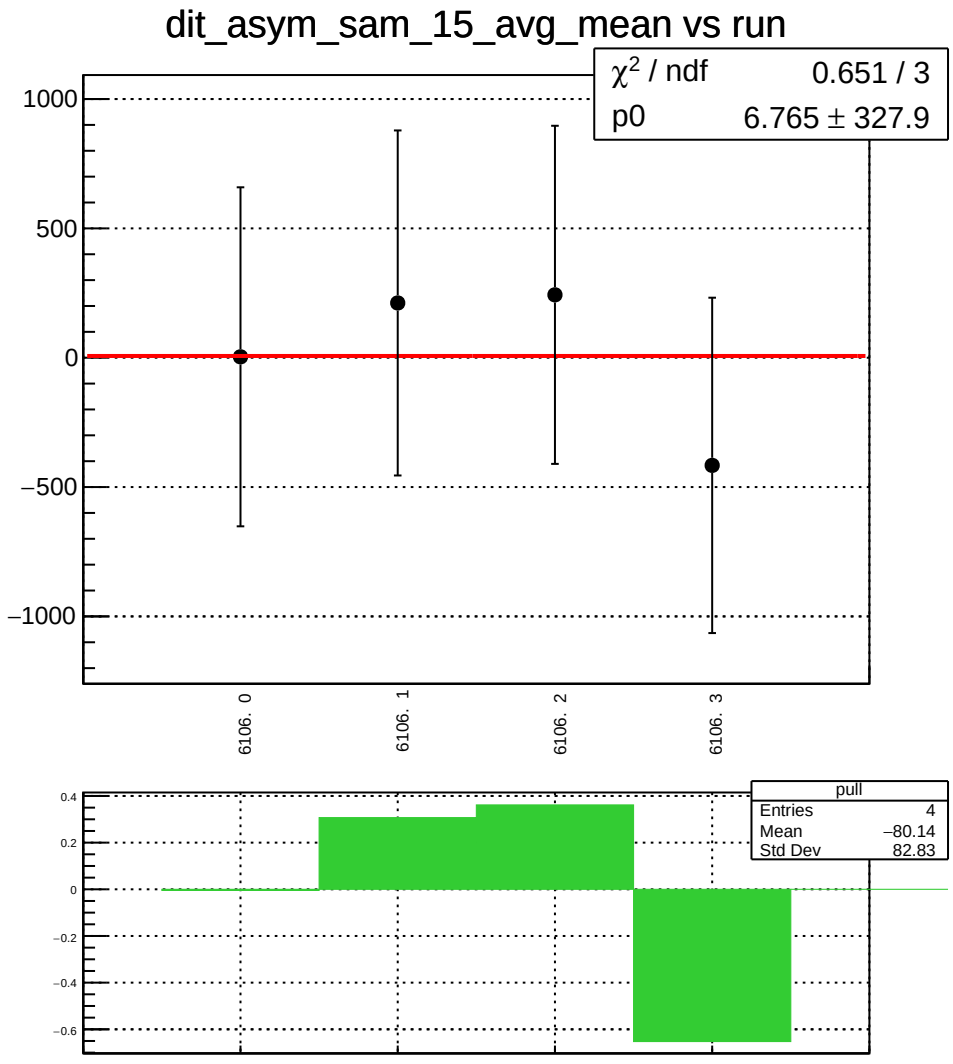

pull1D
Entries 4
Mean −0.01143
Std Dev 0.3579
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

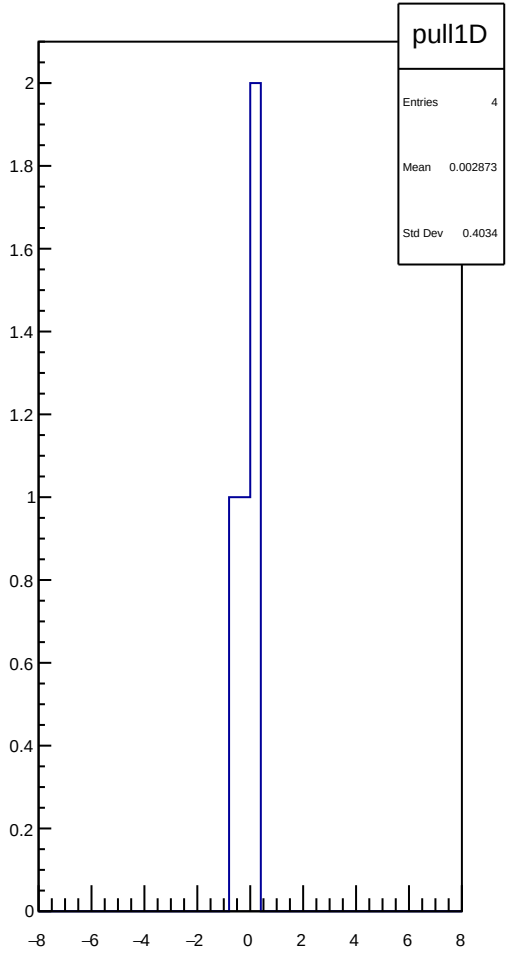

asym_sam8_correction_rms vs run
χ² / ndf 292.9 / 3
p0 321.5 ± 1.193
350
340
330
320
310
300
6106. 0
6106. 1
6106. 2
6106. 3

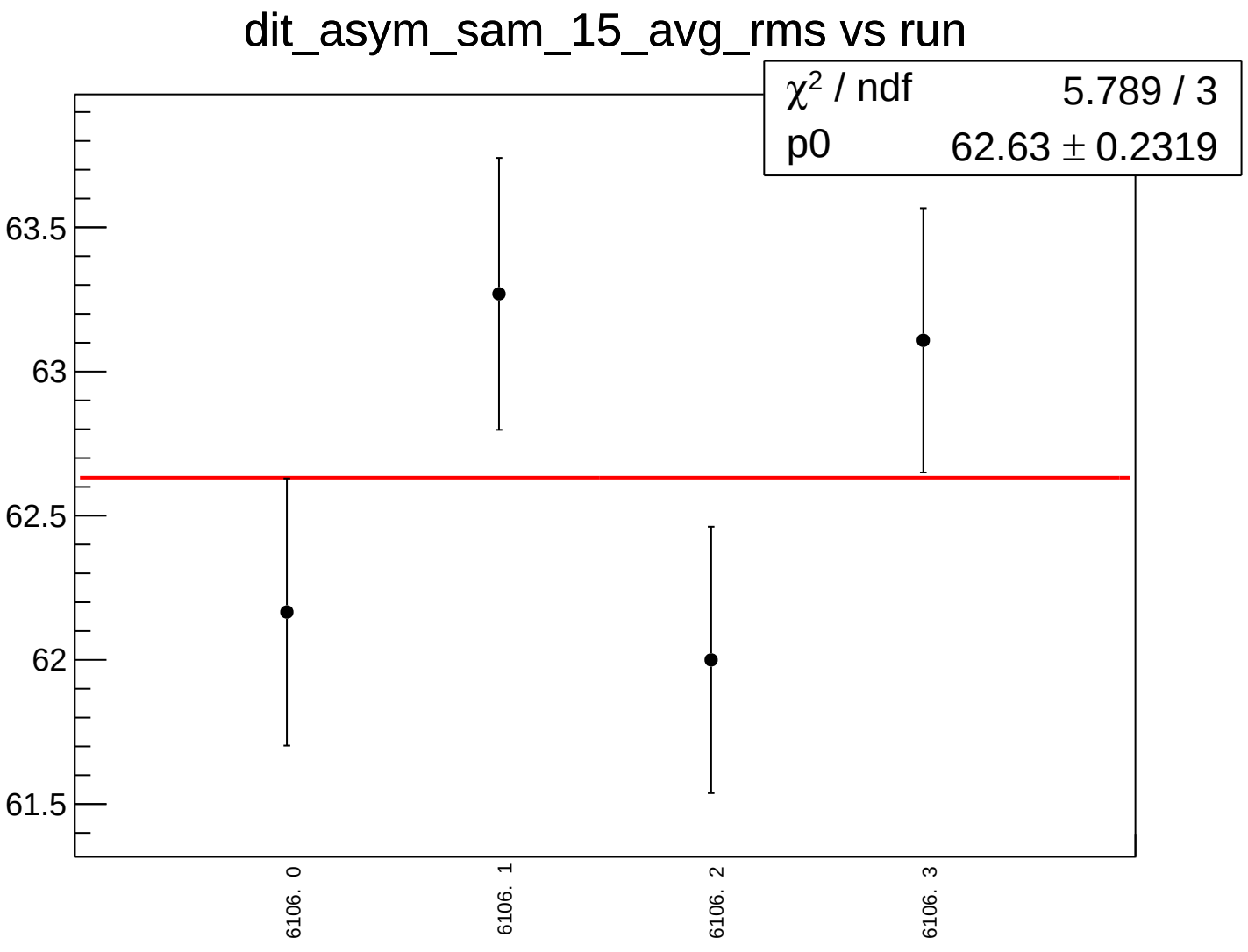

asym_sam8_mean vs run
χ² / ndf 0.3292 / 3
p0 180.7 ± 1614
4000
2000
0
−2000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 7.159
Std Dev 1.517
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

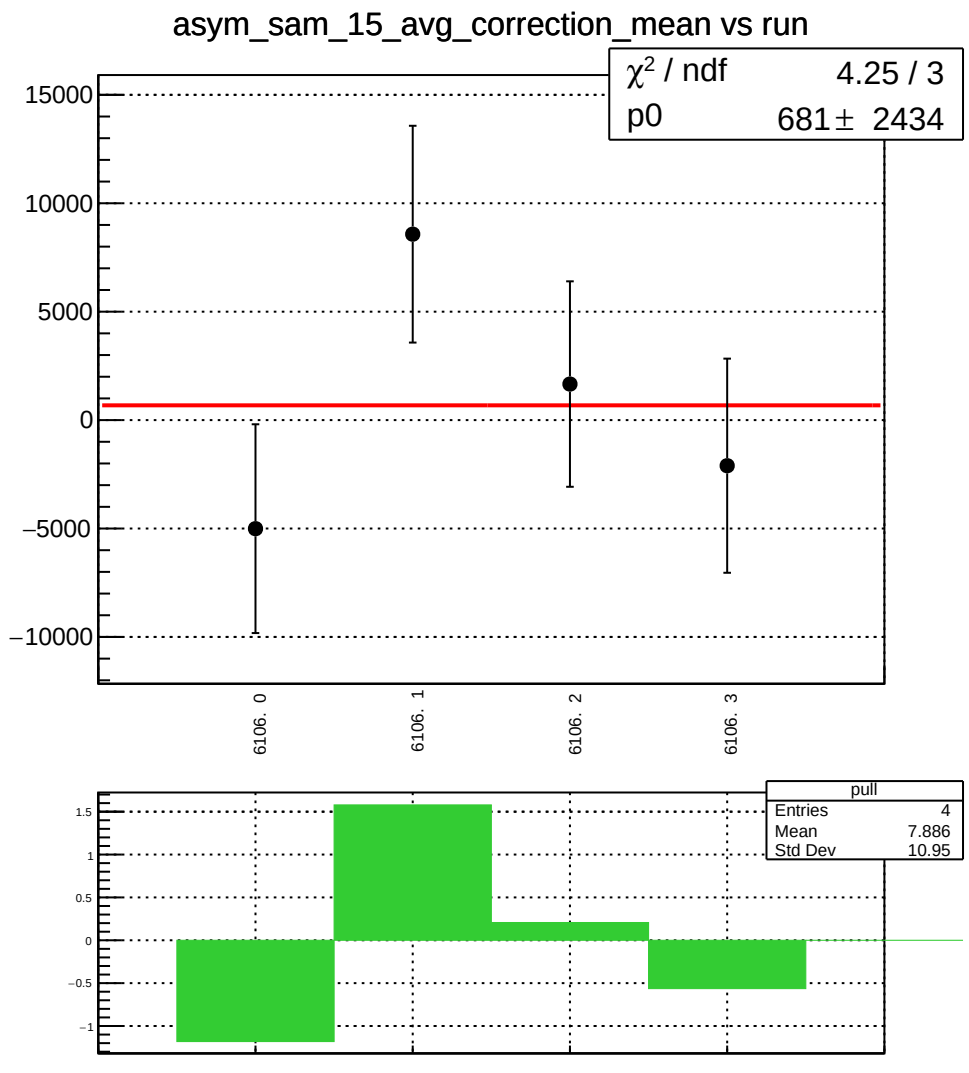

pull1D
Entries 4
Mean 0.007125
Std Dev 0.2868
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

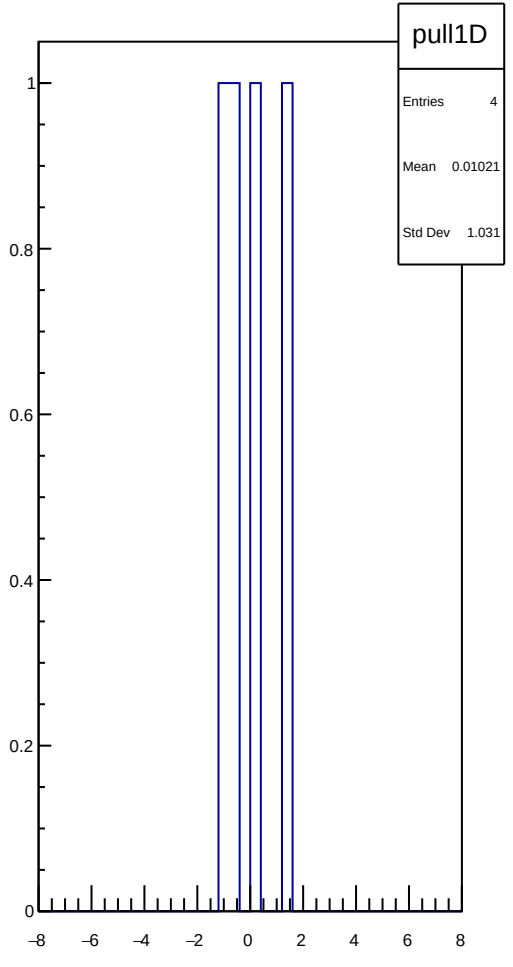

asym_sam8_rms vs run
χ² / ndf 193.1 / 3
p0 307.8 ± 1.141
330
325
320
315
310
305
300
295
290
6106. 0
6106. 1
6106. 2
6106. 3

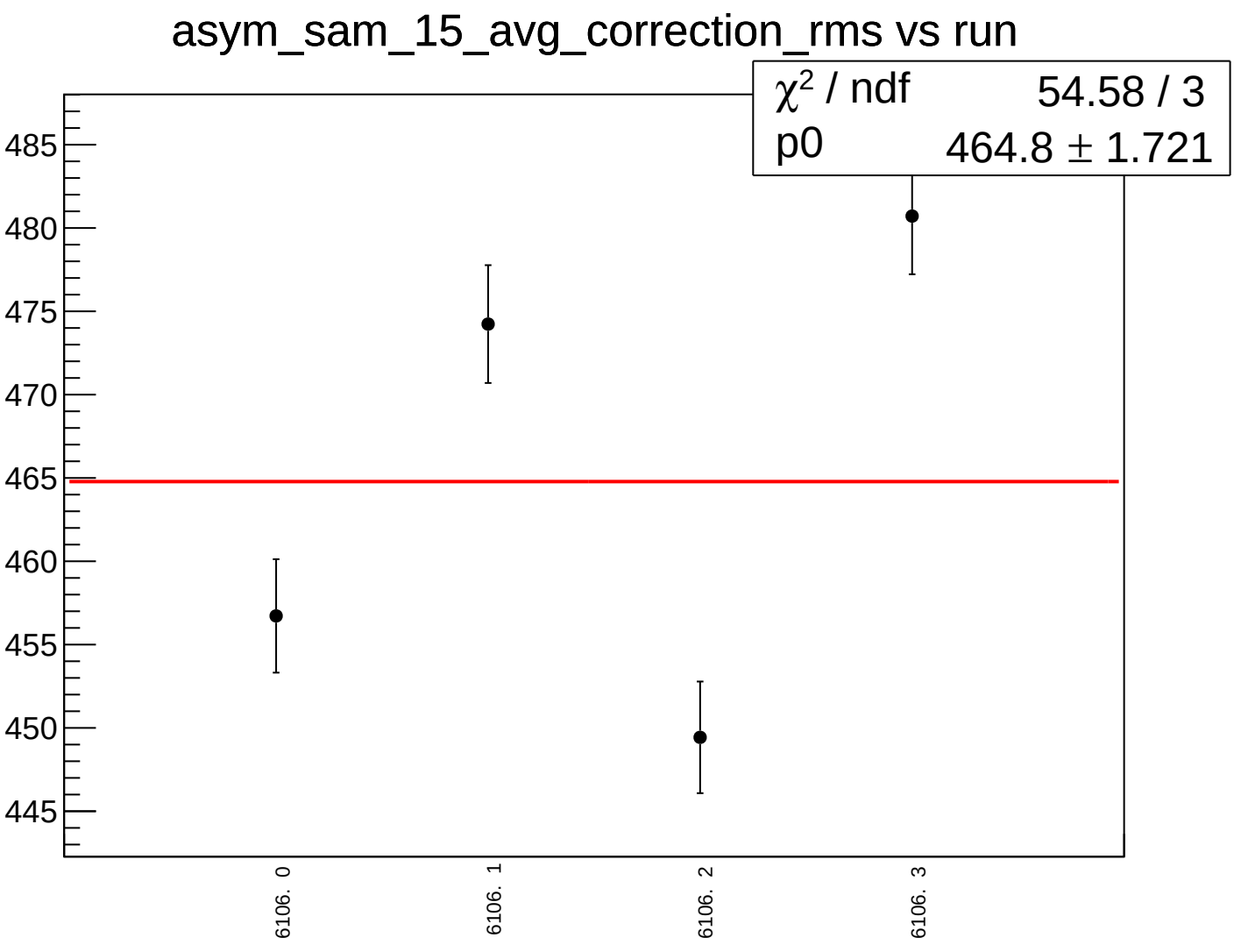

dit_asym_sam_15_avg_mean vs run
χ² / ndf 0.651 / 3
p0 6.765 ± 327.9
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −80.14
Std Dev 82.83
0.4
0.2
0
−0.2
−0.4
−0.6

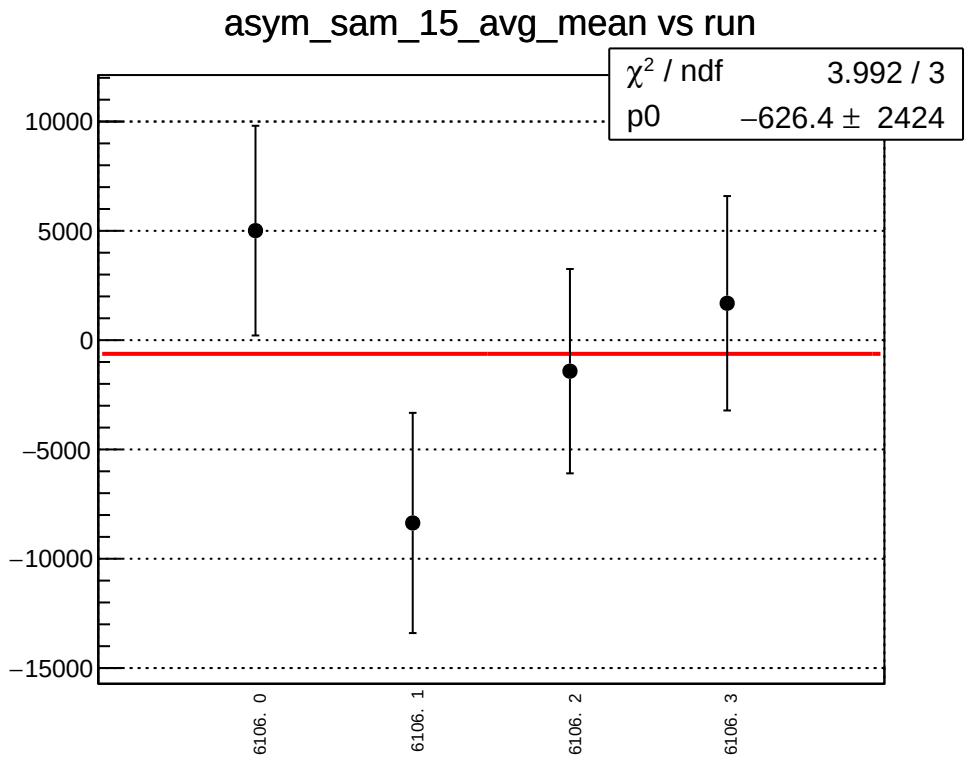

pull1D
Entries 4
Mean 0.002873
Std Dev 0.4034
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

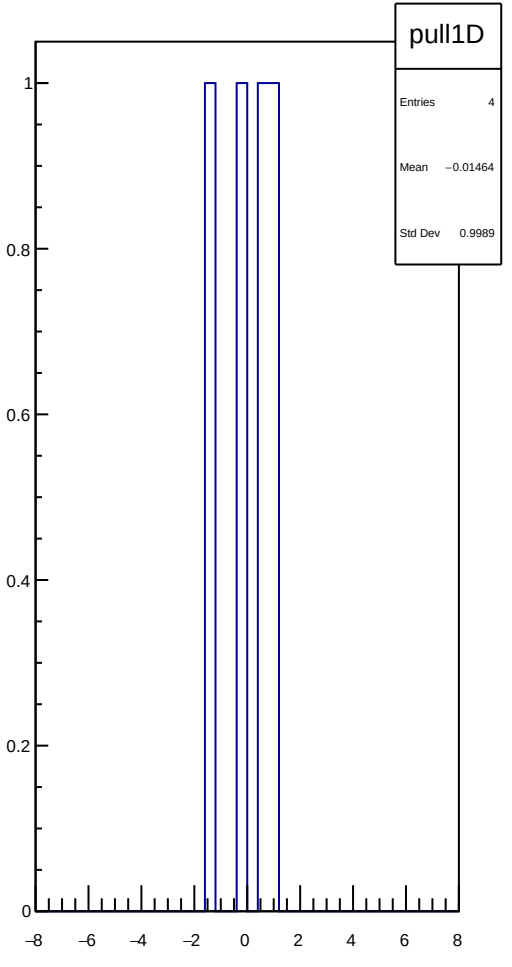

dit_asym_sam_15_avg_rms vs run
χ² / ndf 5.789 / 3
p0 62.63 ± 0.2319
63.5
63
62.5
62
61.5
6106. 0
6106. 1
6106. 2
6106. 3

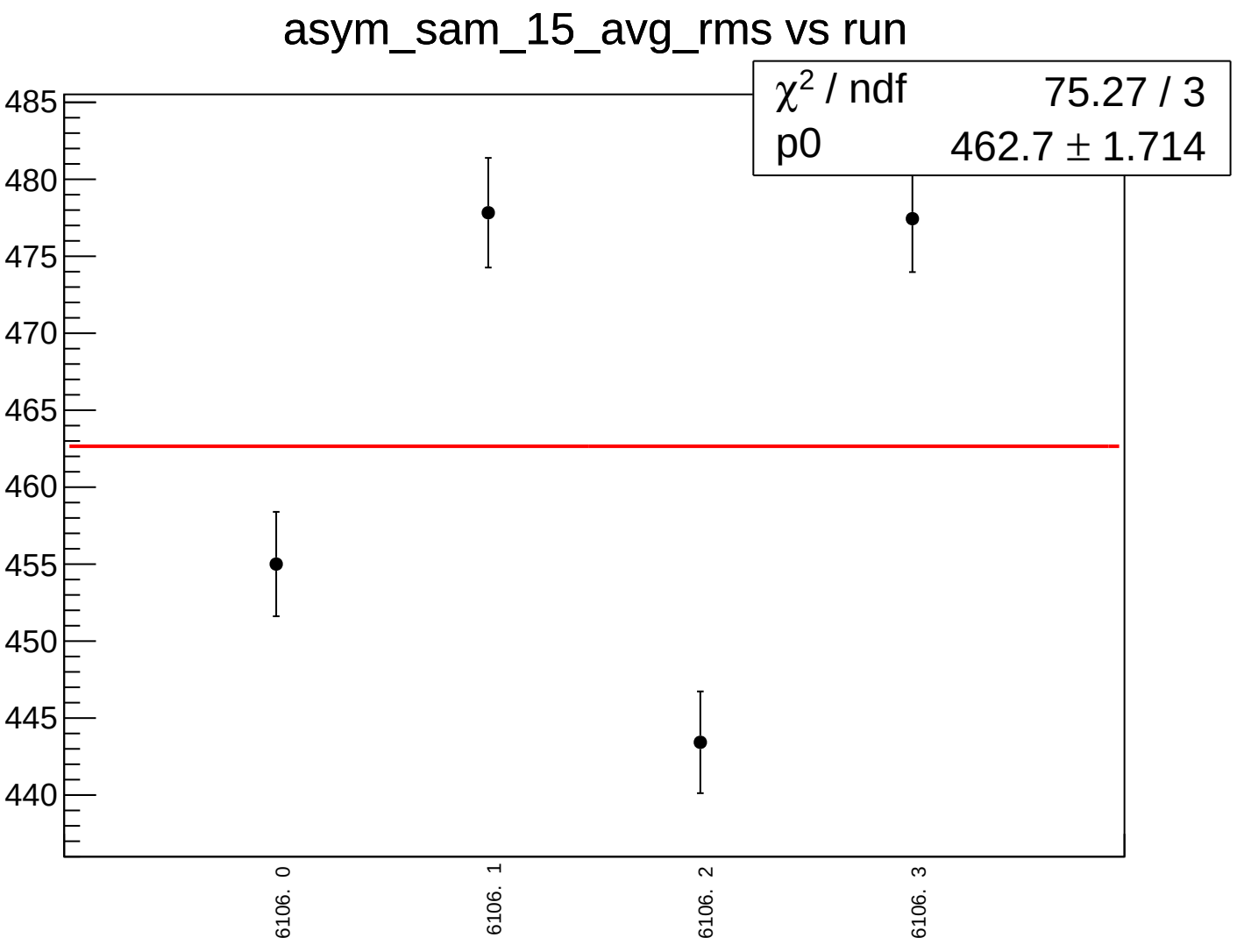

asym_sam_15_avg_correction_mean vs run
χ² / ndf 4.25 / 3
p0 681 ± 2434
15000
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 7.886
Std Dev 10.95
1.5
1
0.5
0
−0.5
−1

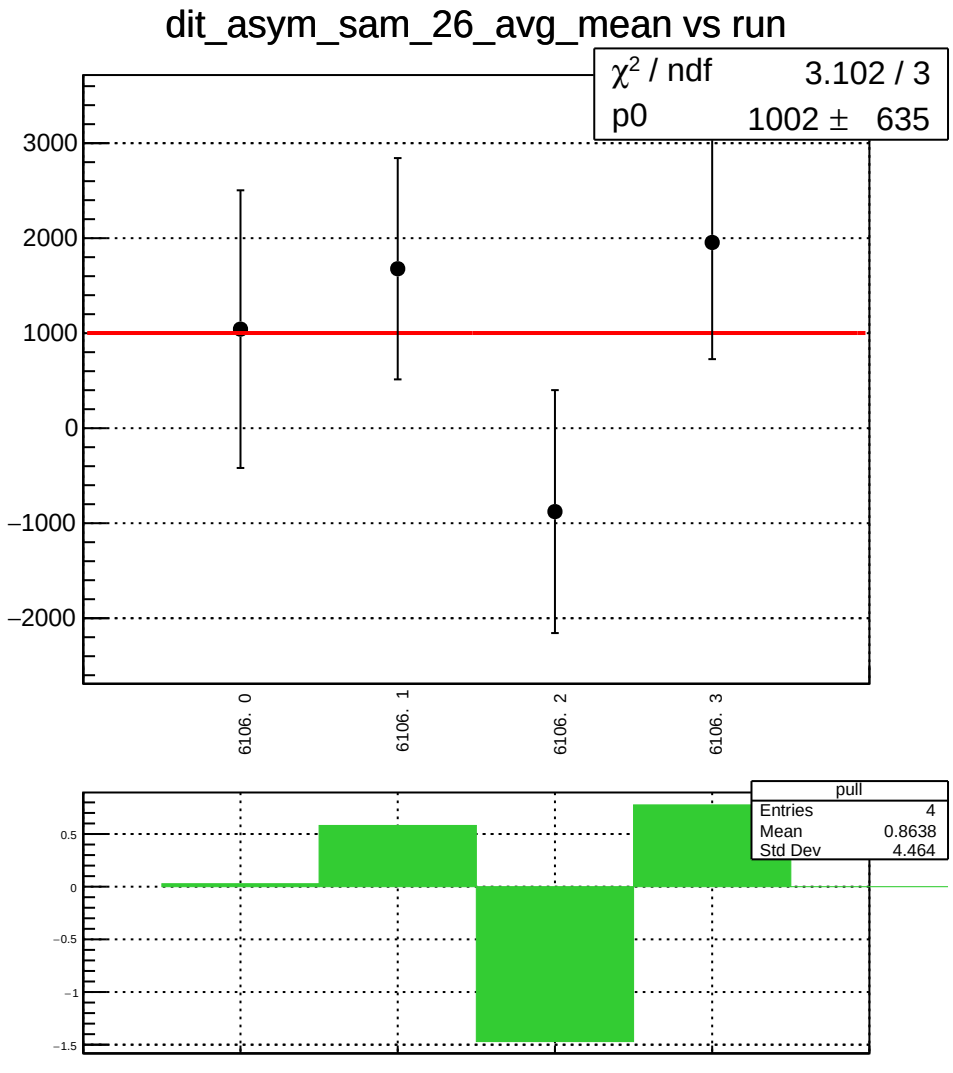

pull1D
Entries 4
Mean 0.01021
Std Dev 1.031
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

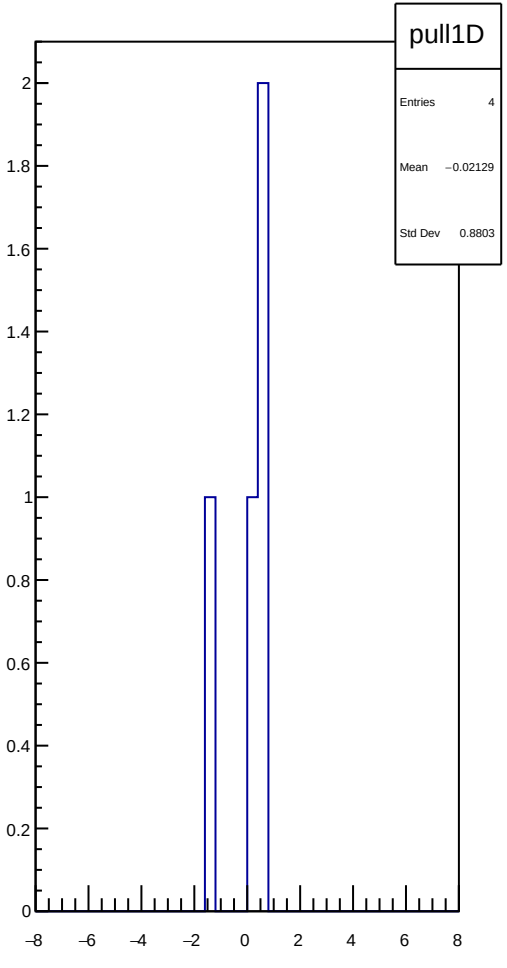

asym_sam_15_avg_correction_rms vs run
χ² / ndf 54.58 / 3
p0 464.8 ± 1.721
485
480
475
470
465
460
455
450
445
6106. 0
6106. 1
6106. 2
6106. 3

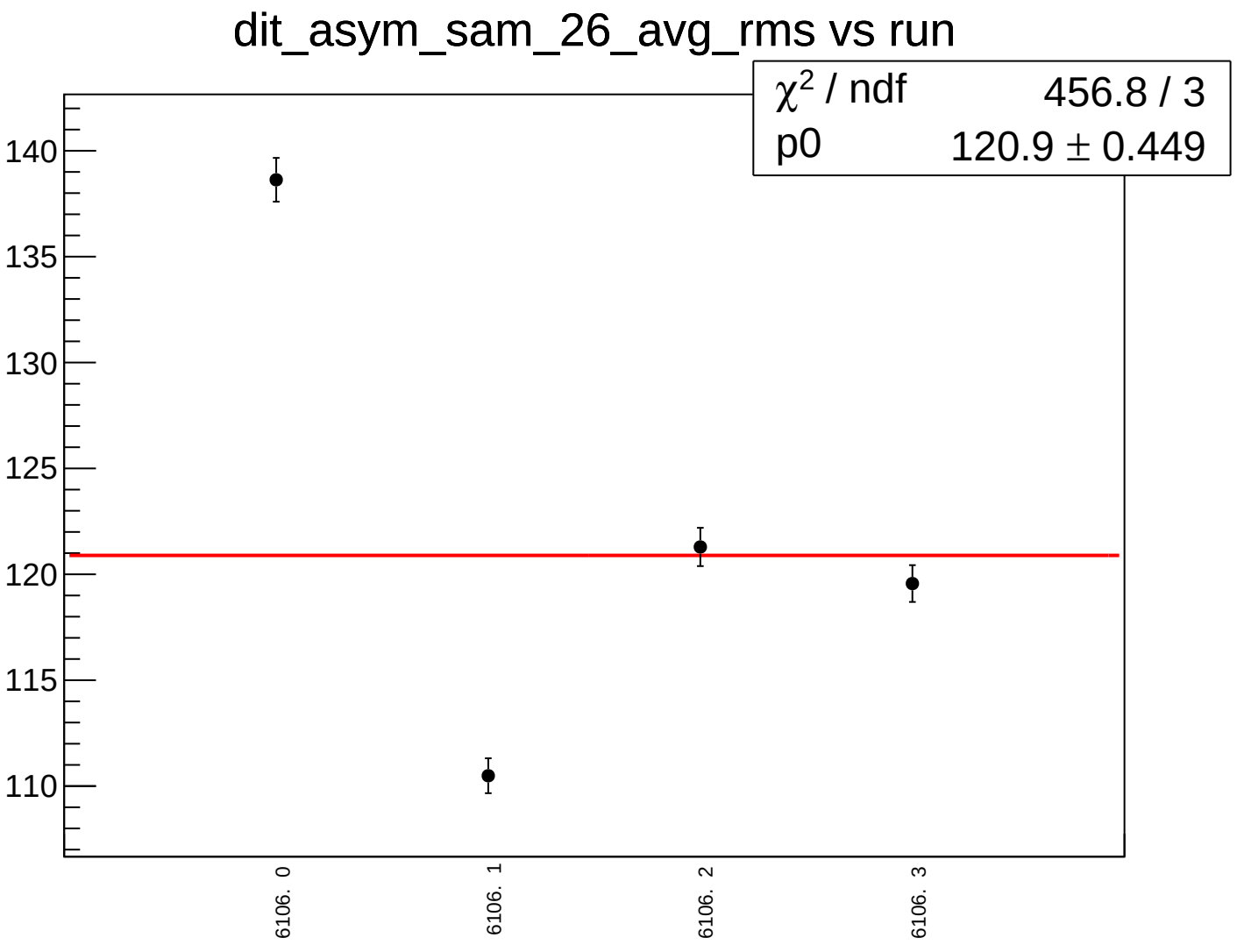

asym_sam_15_avg_mean vs run
χ² / ndf 3.992 / 3
p0 −626.4 ± 2424
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 8.355
Std Dev 9.818
1
0.5
0
−0.5
−1
−1.5

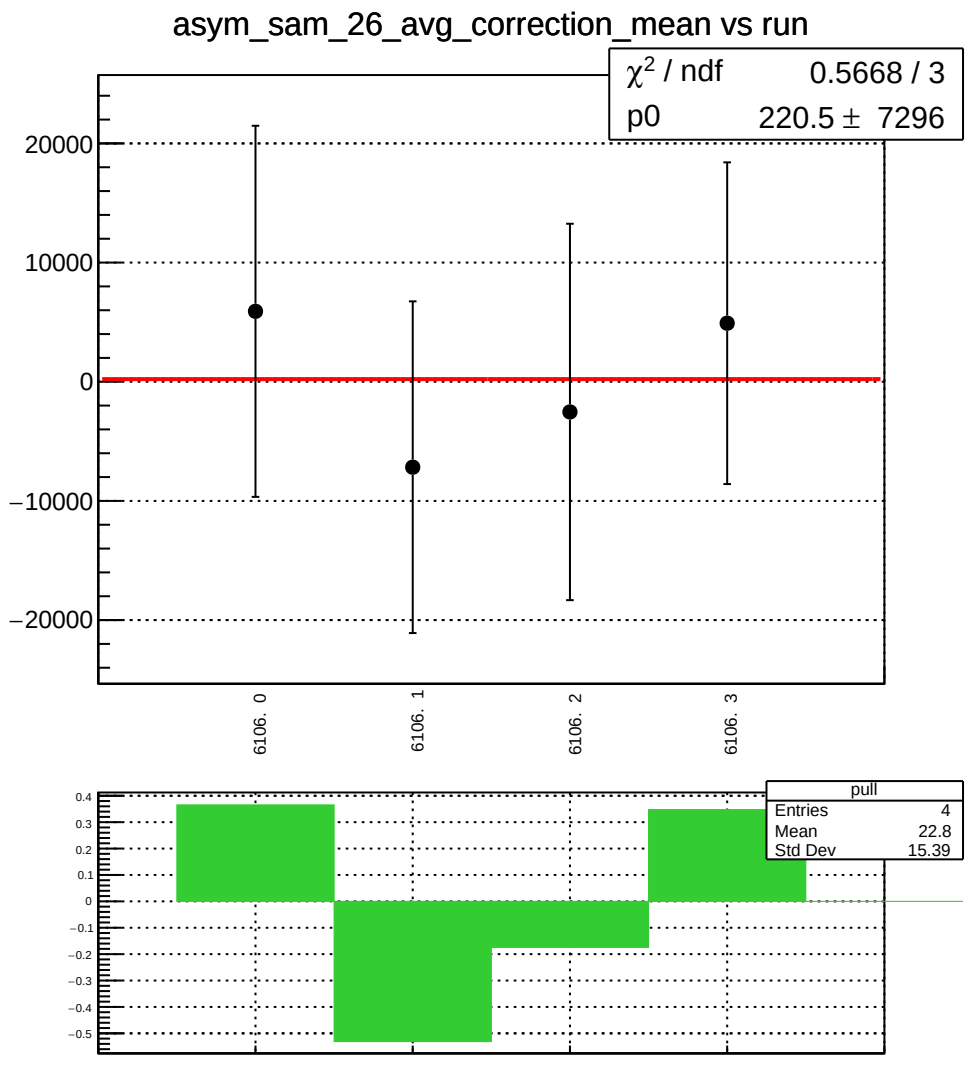

pull1D
Entries 4
Mean −0.01464
Std Dev 0.9989
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

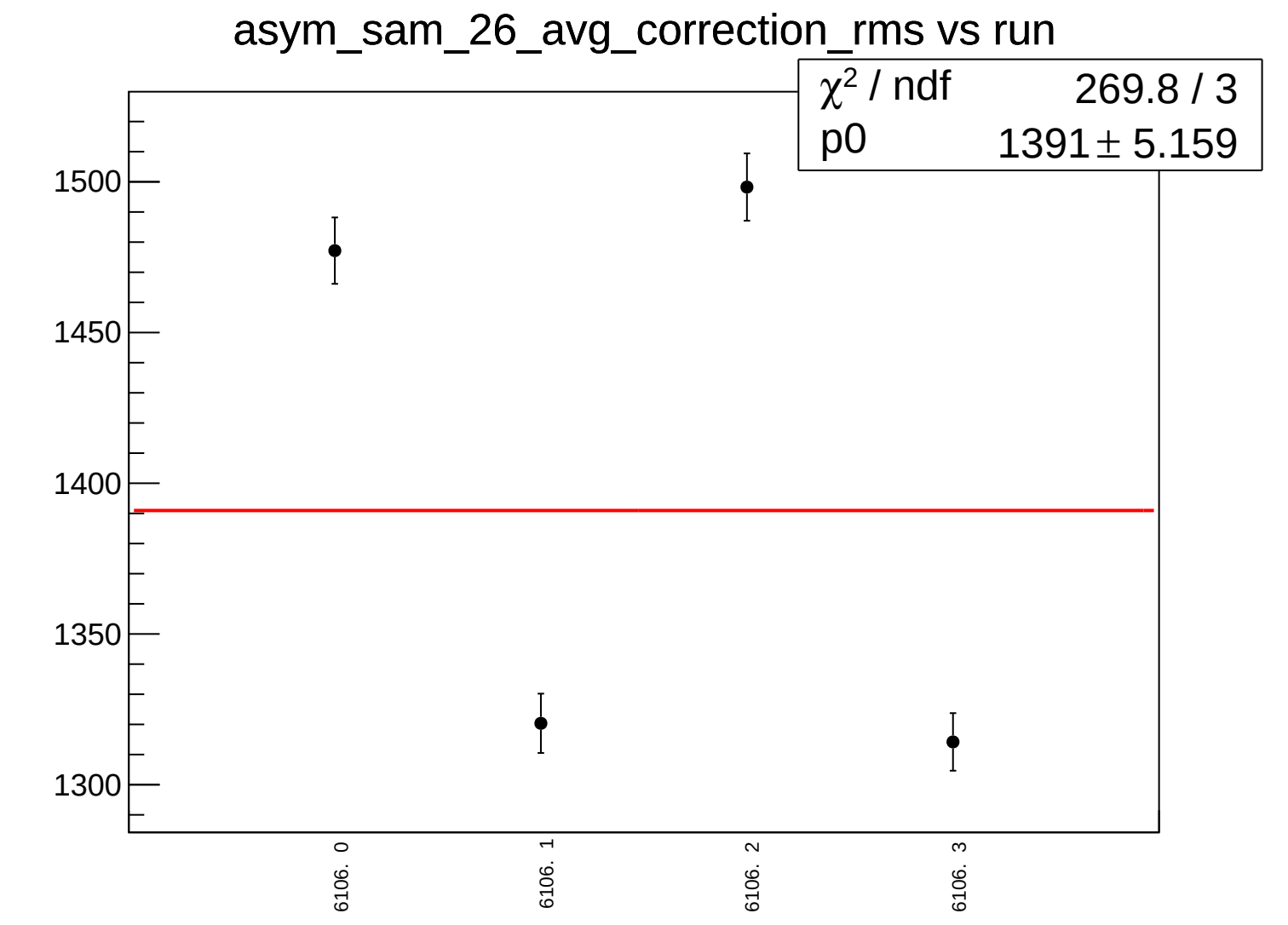

asym_sam_15_avg_rms vs run
χ² / ndf 75.27 / 3
p0 462.7 ± 1.714
485
480
475
470
465
460
455
450
445
440
6106. 0
6106. 1
6106. 2
6106. 3

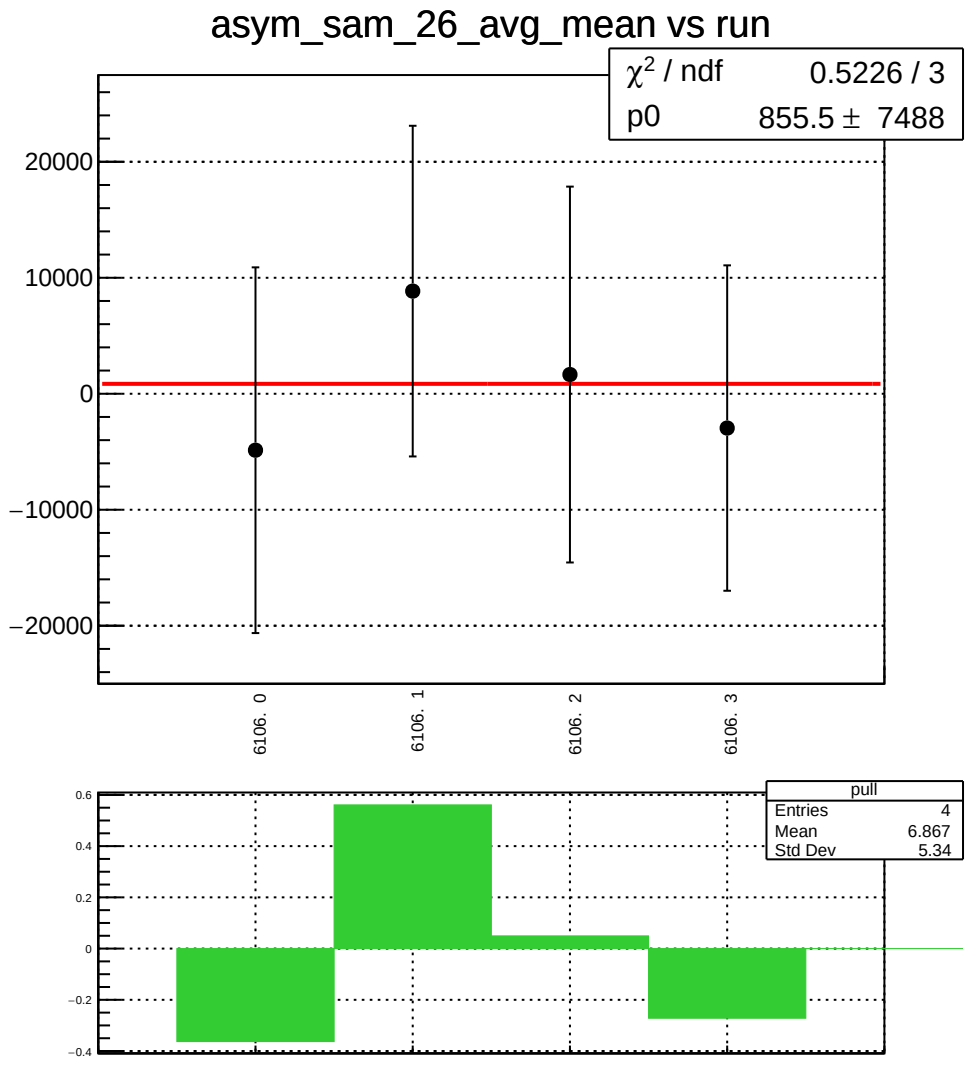

dit_asym_sam_26_avg_mean vs run
χ² / ndf 3.102 / 3
p0 1002 ± 635
3000
2000
1000
0
−1000
−2000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 0.8638
Std Dev 4.464
0.5
0
−0.5
−1
−1.5

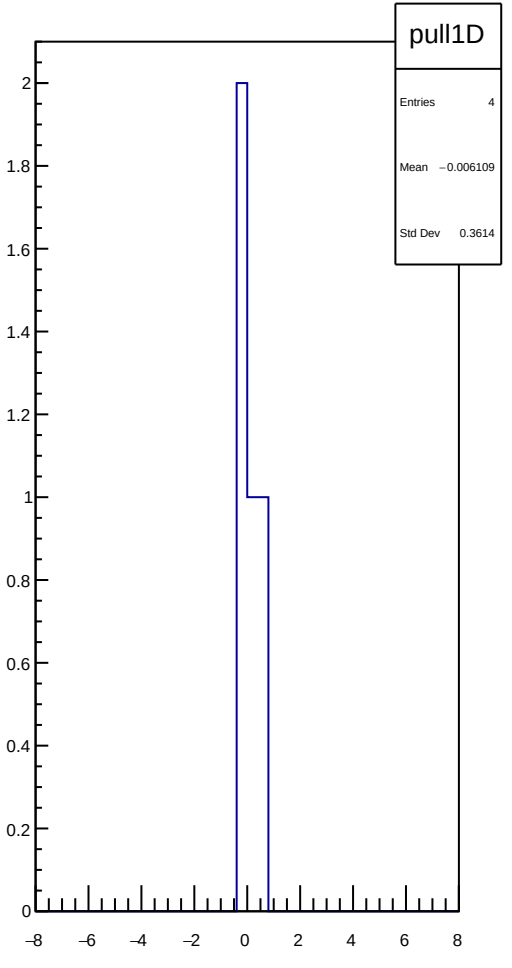

pull1D
Entries 4
Mean −0.02129
Std Dev 0.8803
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

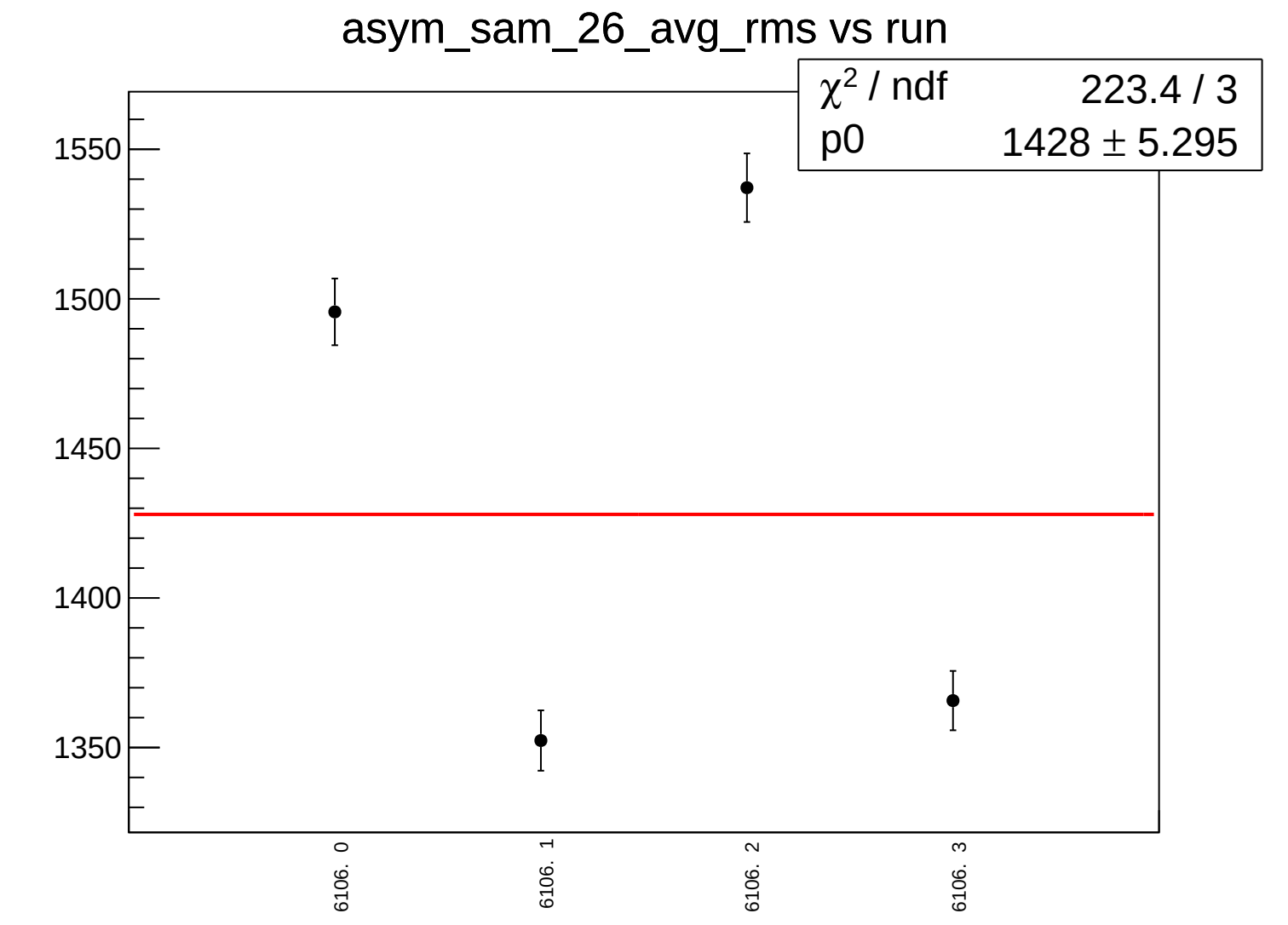

dit_asym_sam_26_avg_rms vs run
χ² / ndf 456.8 / 3
p0 120.9 ± 0.449
140
135
130
125
120
115
110
6106. 0
6106. 1
6106. 2
6106. 3

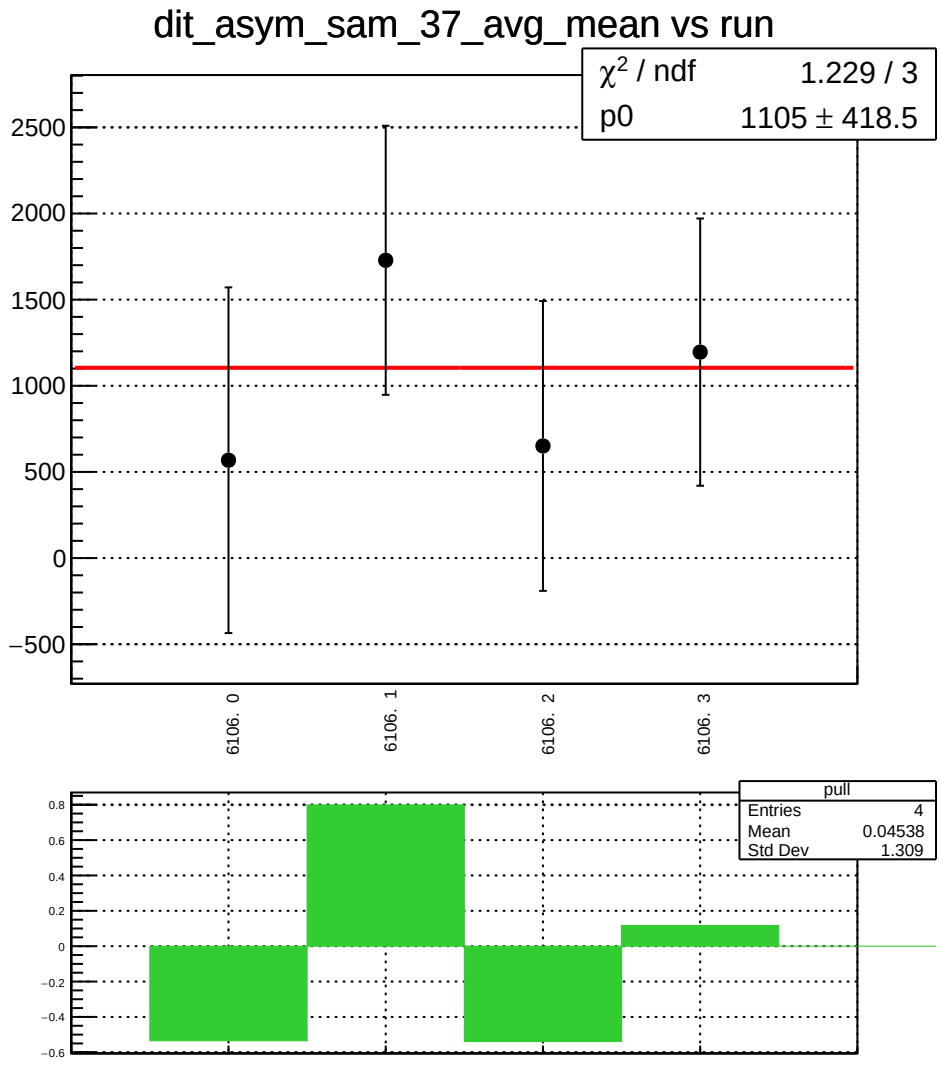

asym_sam_26_avg_correction_mean vs run
χ² / ndf 0.5668 / 3
p0 220.5 ± 7296
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 22.8
Std Dev 15.39
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 4
Mean 0.001823
Std Dev 0.3764
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

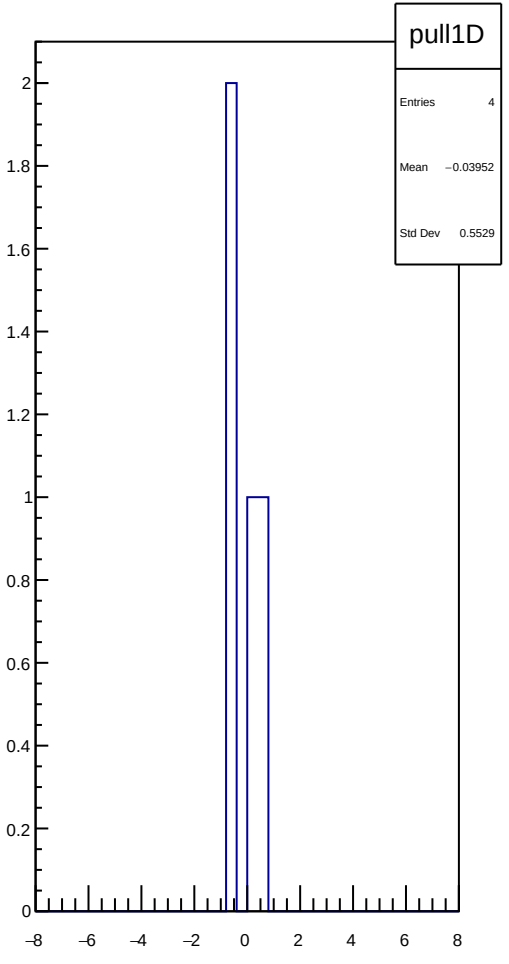

asym_sam_26_avg_correction_rms vs run
χ² / ndf 269.8 / 3
p0 1391 ± 5.159
1500
1450
1400
1350
1300
6106. 0
6106. 1
6106. 2
6106. 3

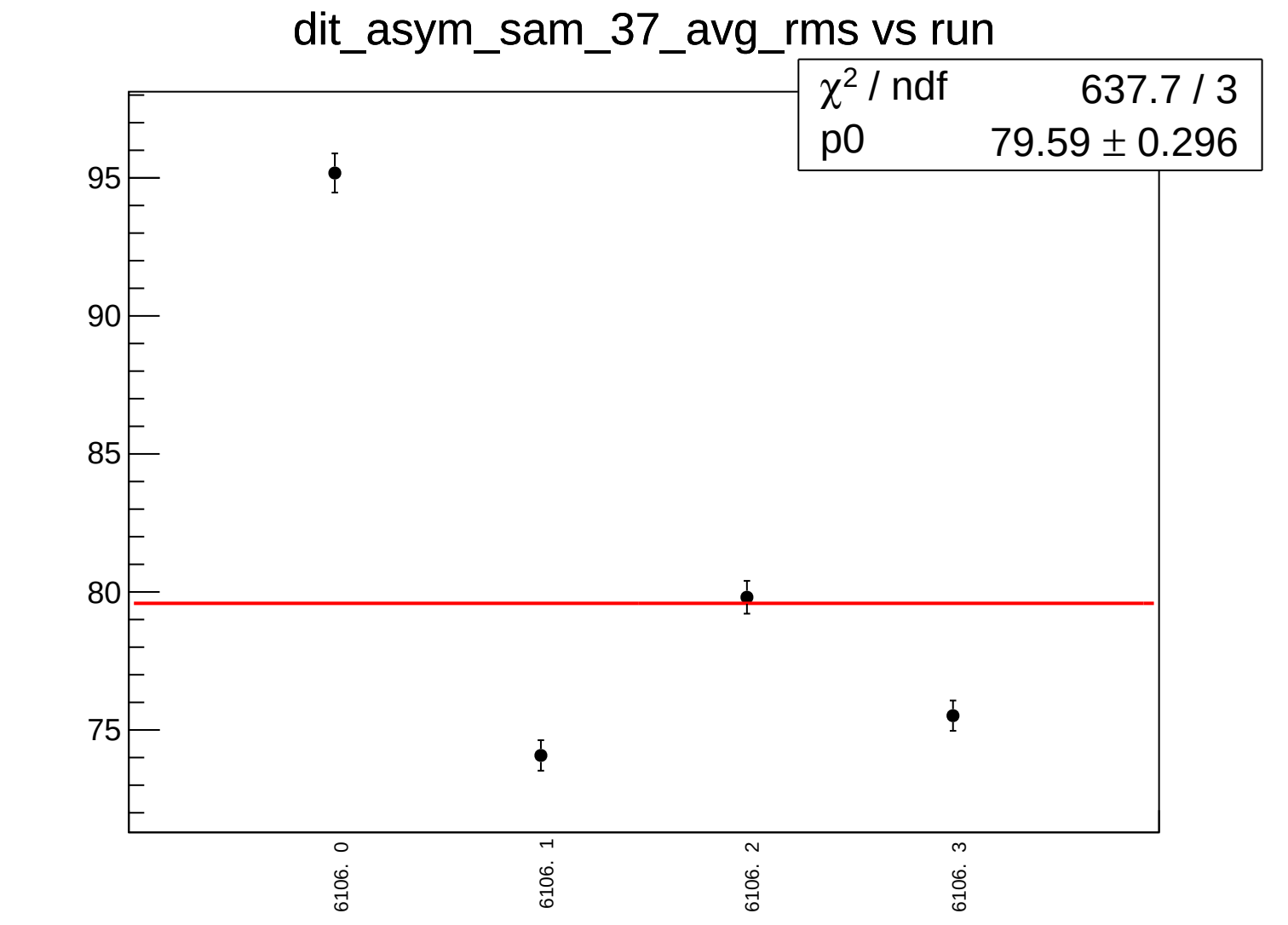

asym_sam_26_avg_mean vs run
χ² / ndf 0.5226 / 3
p0 855.5 ± 7488
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 6.867
Std Dev 5.34
0.6
0.4
0.2
0
−0.2
−0.4

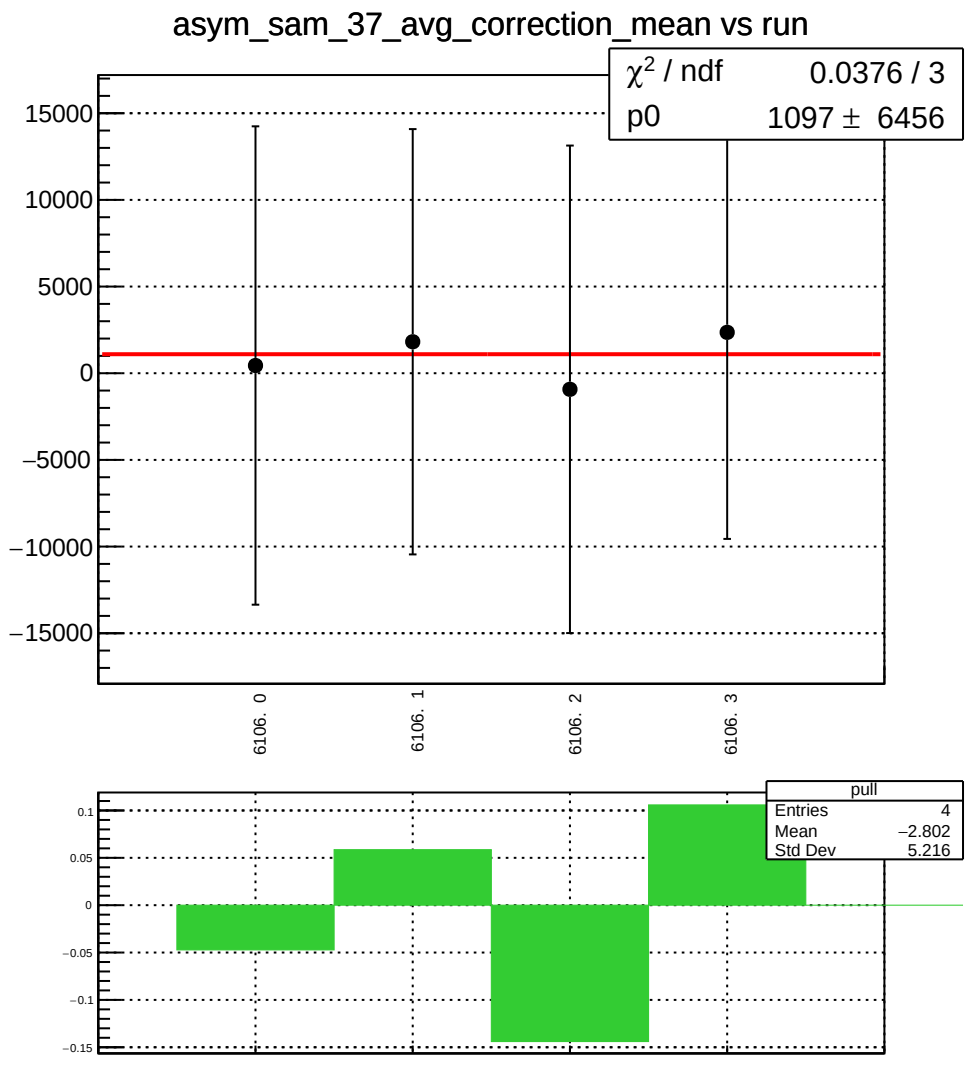

pull1D
Entries 4
Mean −0.006109
Std Dev 0.3614
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

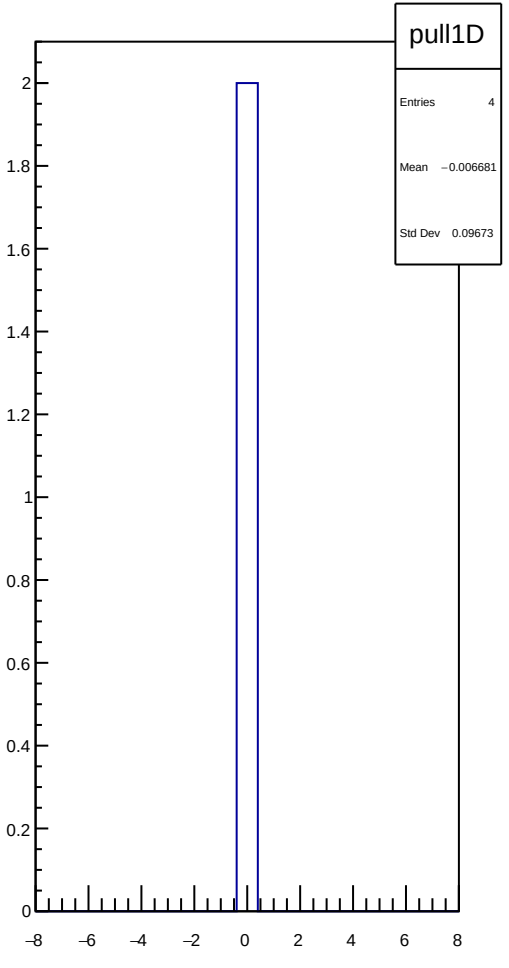

asym_sam_26_avg_rms vs run
χ² / ndf 223.4 / 3
p0 1428 ± 5.295
1550
1500
1450
1400
1350
6106. 0
6106. 1
6106. 2
6106. 3

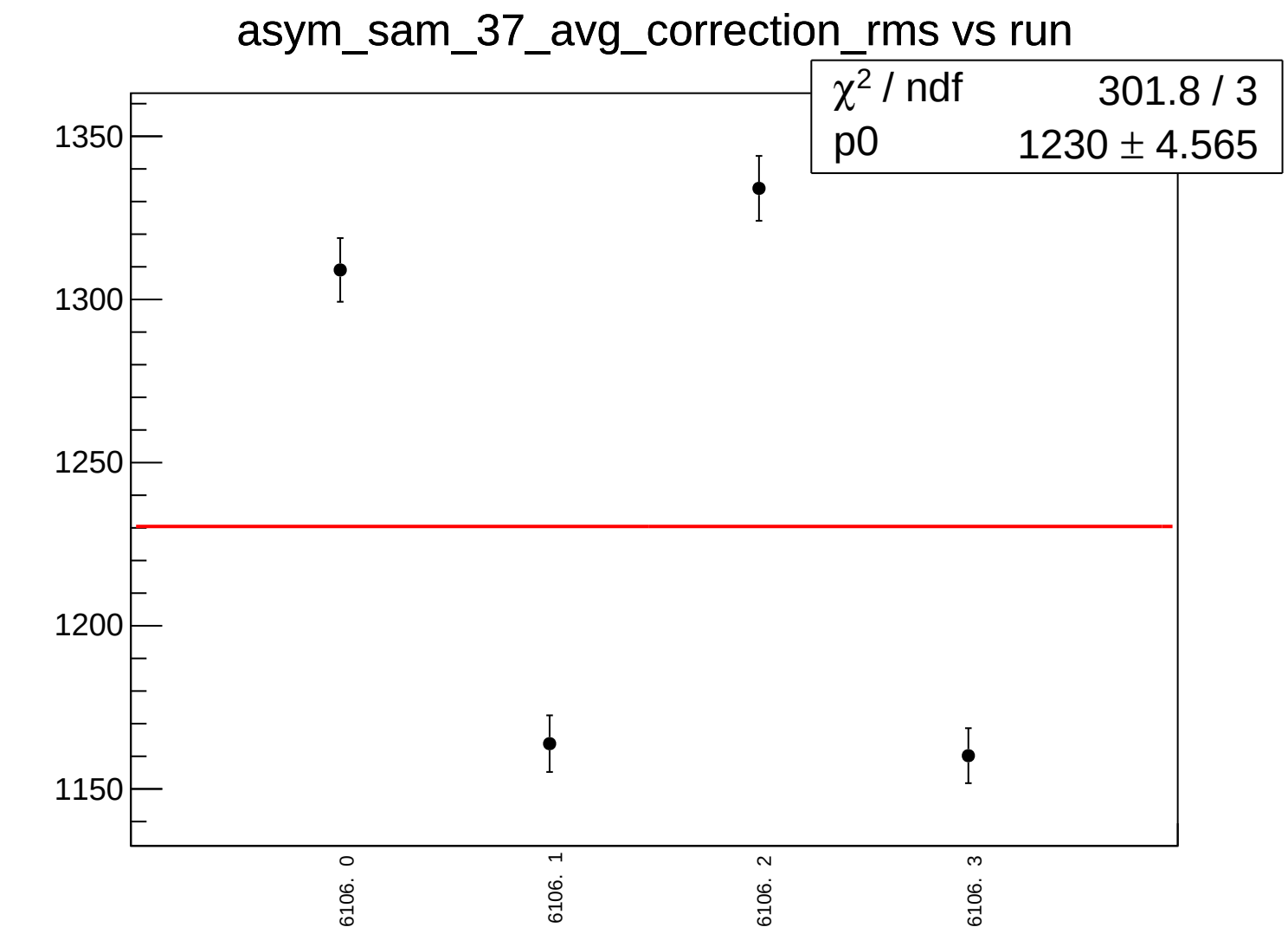

dit_asym_sam_37_avg_mean vs run
χ² / ndf 1.229 / 3
p0 1105 ± 418.5
2500
2000
1500
1000
500
0
−500
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 0.04538
Std Dev 1.309
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

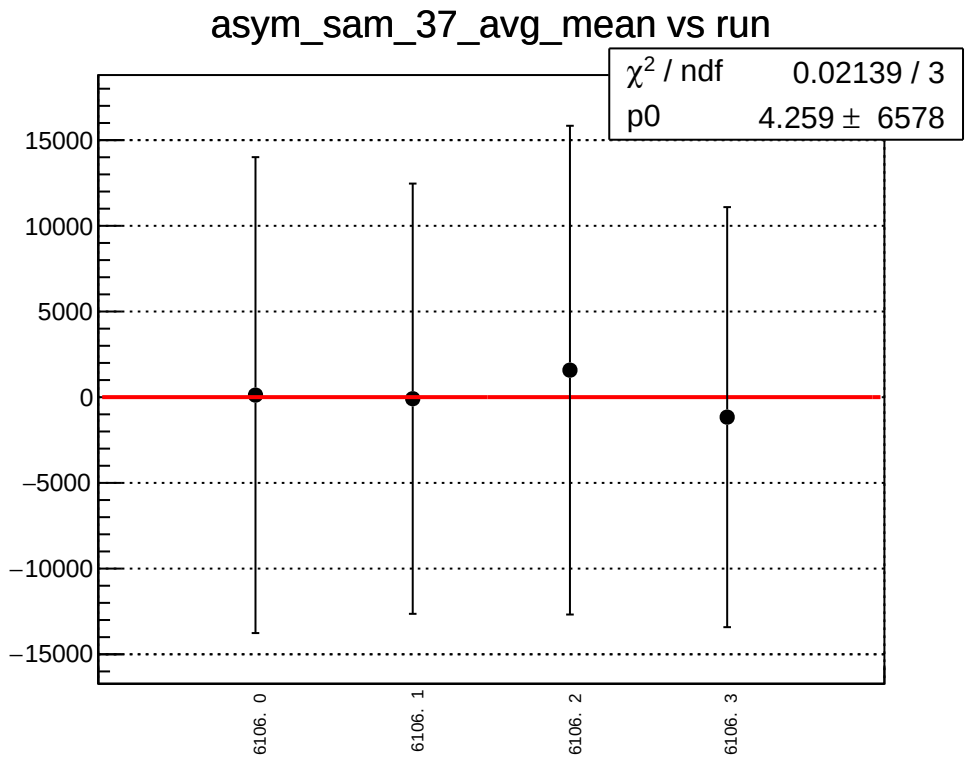

pull1D
Entries 4
Mean −0.03952
Std Dev 0.5529
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

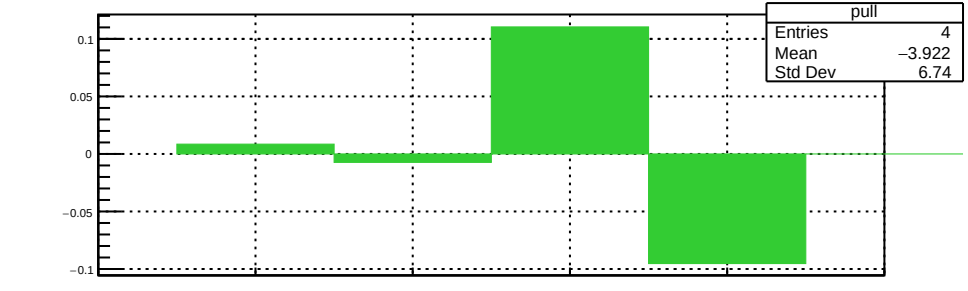

dit_asym_sam_37_avg_rms vs run
χ² / ndf 637.7 / 3
p0 79.59 ± 0.296
95
90
85
80
75
6106. 0
6106. 1
6106. 2
6106. 3

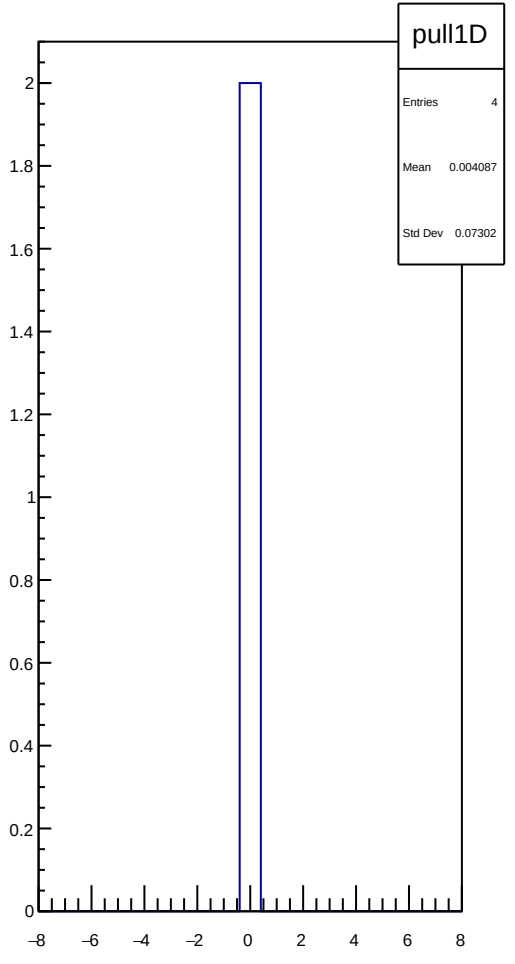

asym_sam_37_avg_correction_mean vs run
χ² / ndf 0.0376 / 3
p0 1097 ± 6456
15000
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.802
Std Dev 5.216
0.1
0.05
0
−0.05
−0.1
−0.15

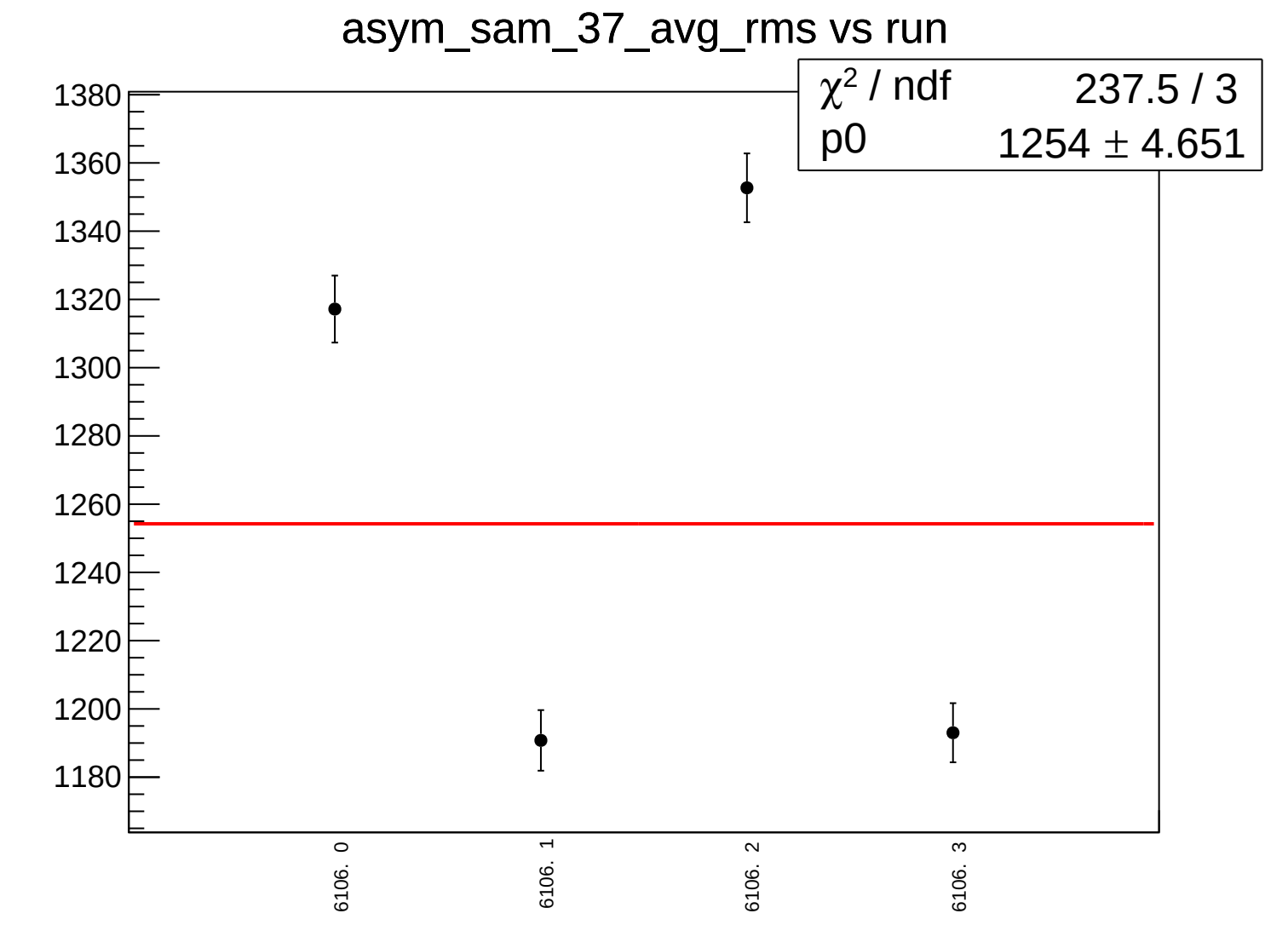

pull1D
Entries 4
Mean −0.006681
Std Dev 0.09673
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

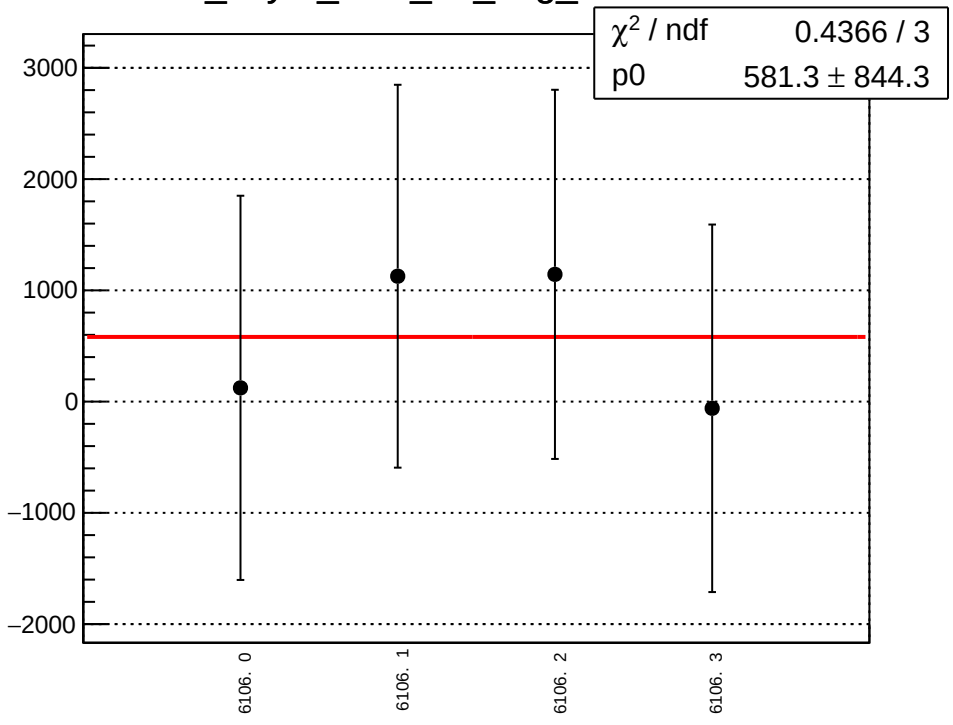

asym_sam_37_avg_correction_rms vs run
χ² / ndf 301.8 / 3
p0 1230 ± 4.565
1350
1300
1250
1200
1150
6106. 0
6106. 1
6106. 2
6106. 3

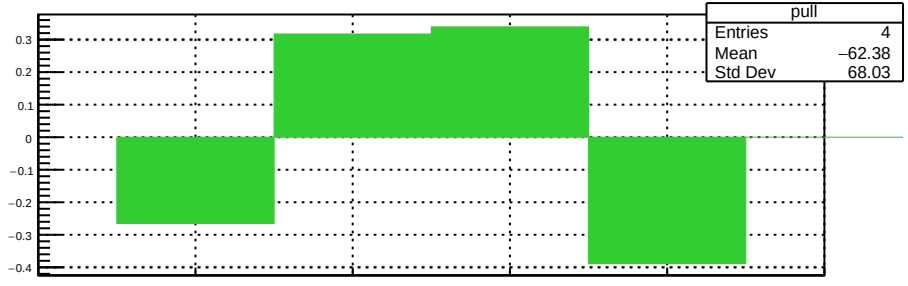

asym_sam_37_avg_mean vs run
χ² / ndf 0.02139 / 3
p0 4.259 ± 6578
15000
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3

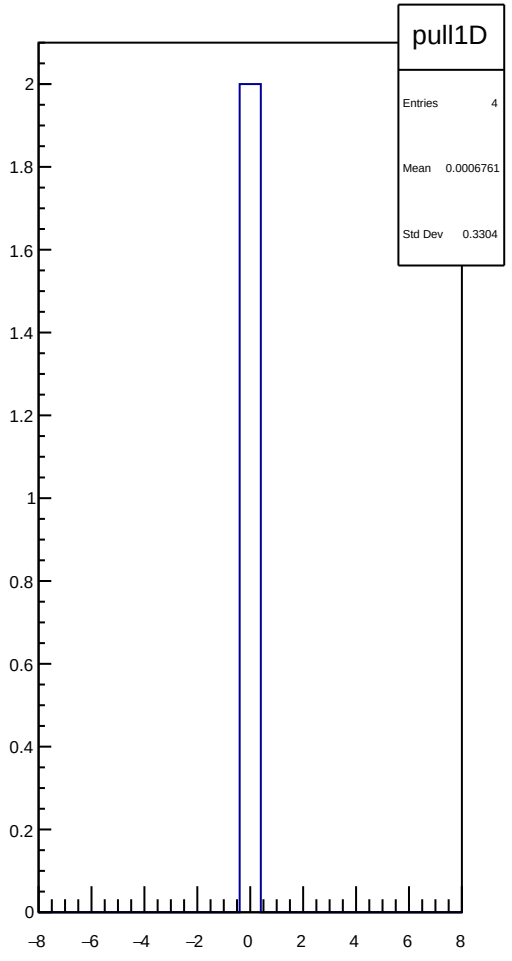

pull
Entries 4
Mean −3.922
Std Dev 6.74
0.1
0.05
0
−0.05
−0.1

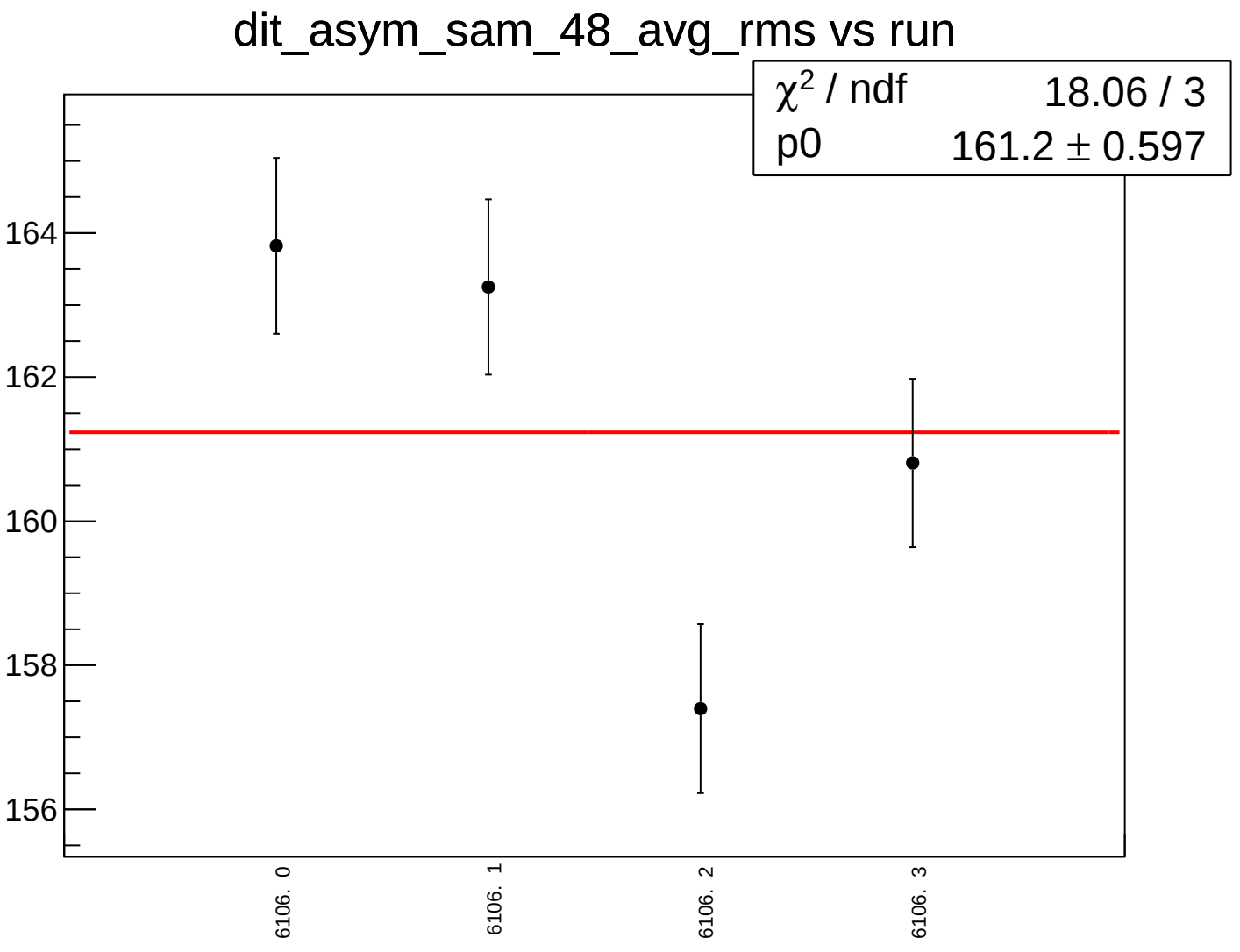

pull1D
Entries 4
Mean 0.004087
Std Dev 0.07302
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

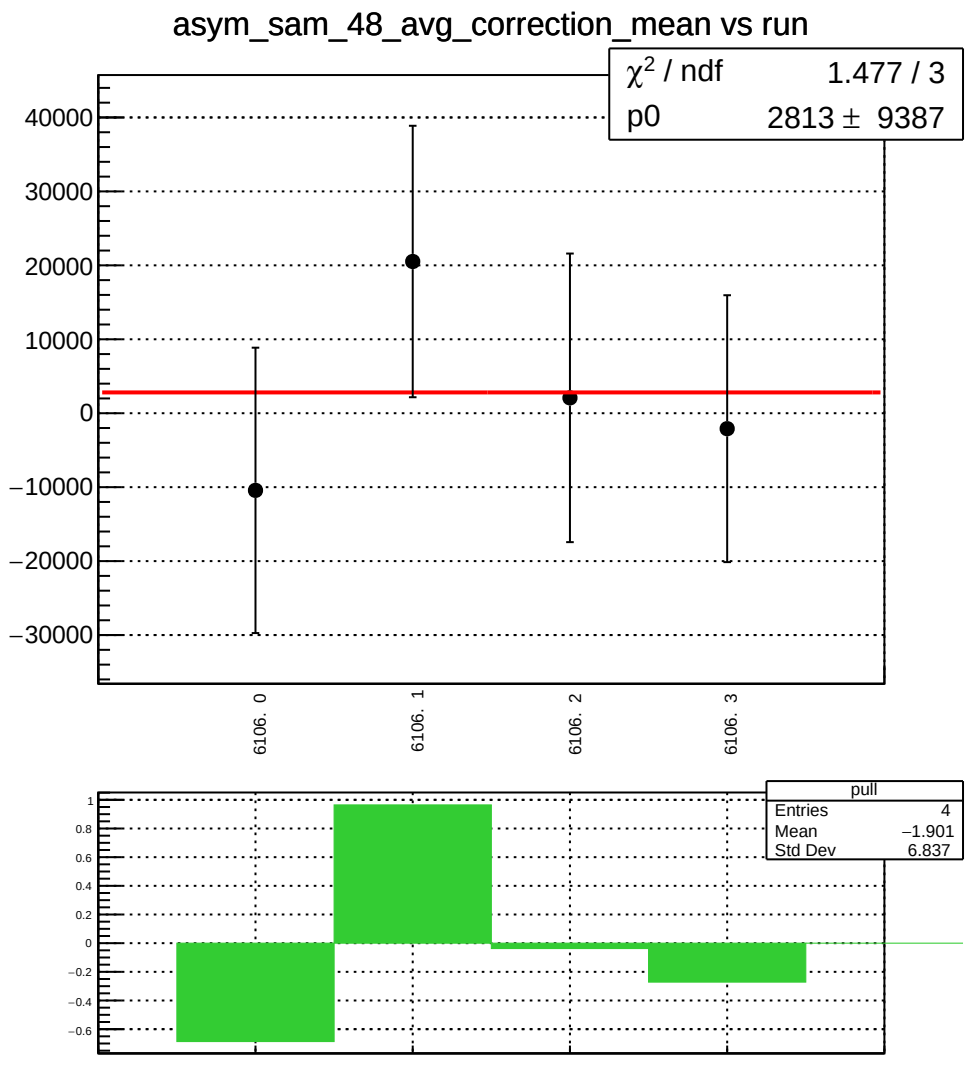

asym_sam_37_avg_rms vs run
χ² / ndf 237.5 / 3
p0 1254 ± 4.651
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
6106. 0
6106. 1
6106. 2
6106. 3

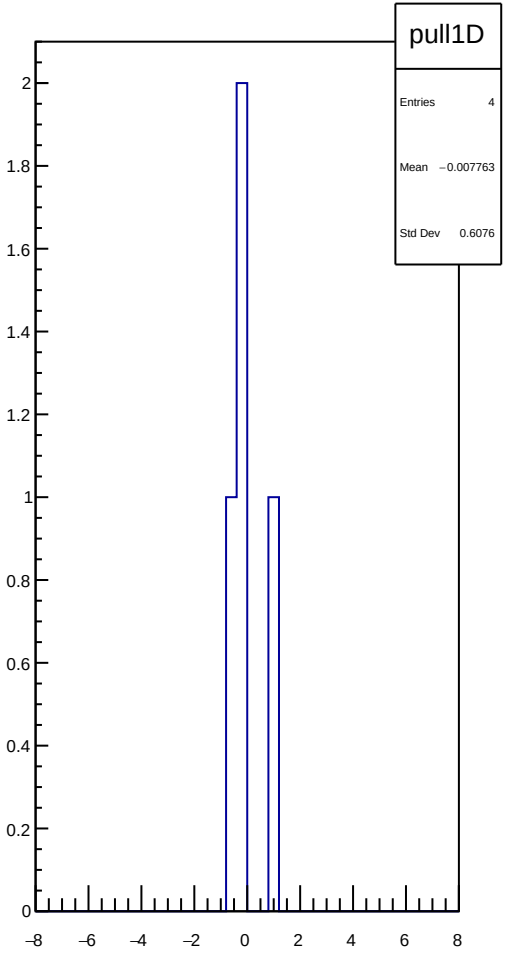

dit_asym_sam_48_avg_mean vs run
χ² / ndf 0.4366 / 3
p0 581.3 ± 844.3
3000
2000
1000
0
−1000
−2000
6106. 0
6106. 1
6106. 2
6106. 3

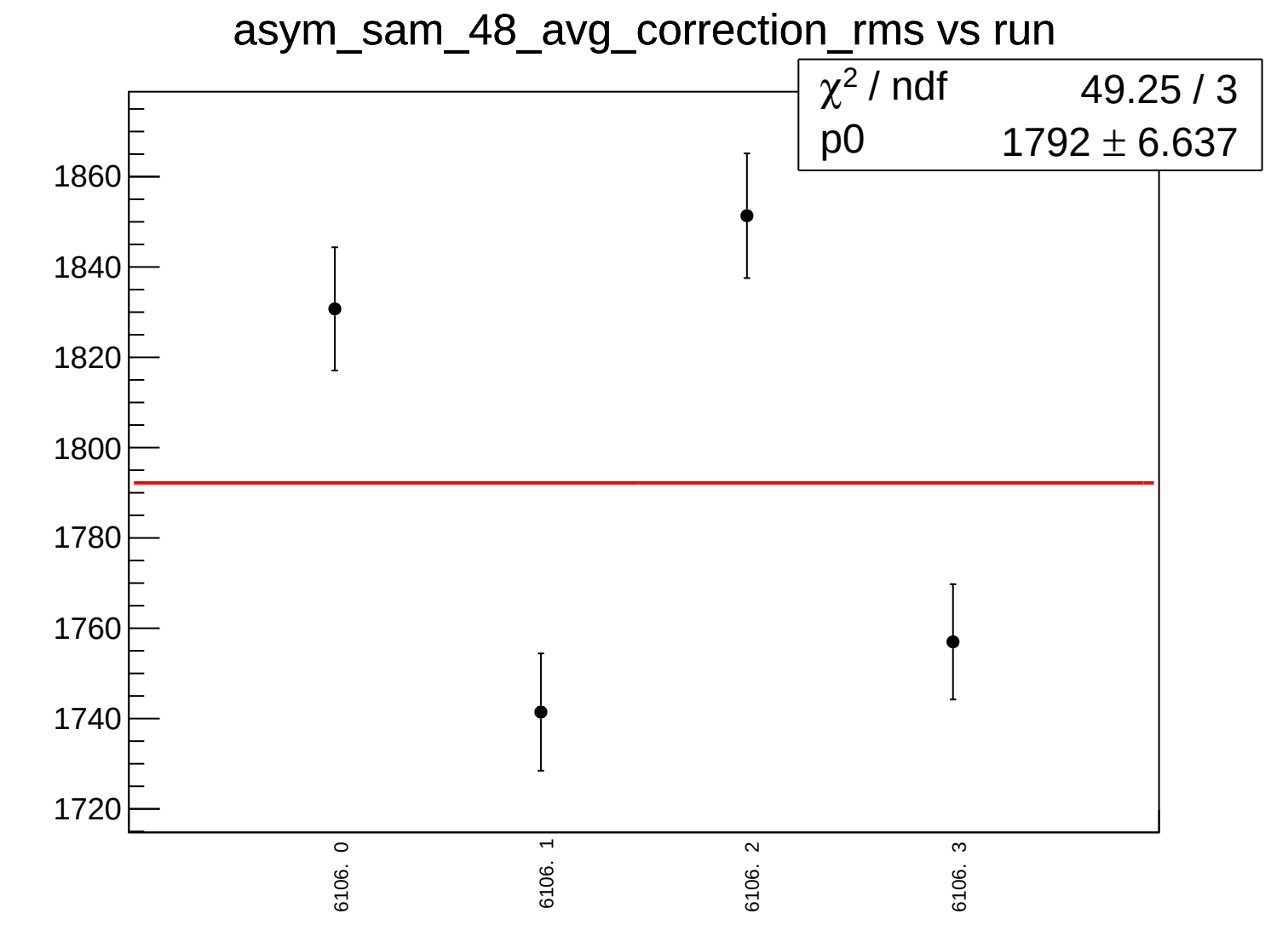

pull
Entries 4
Mean −62.38
Std Dev 68.03
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

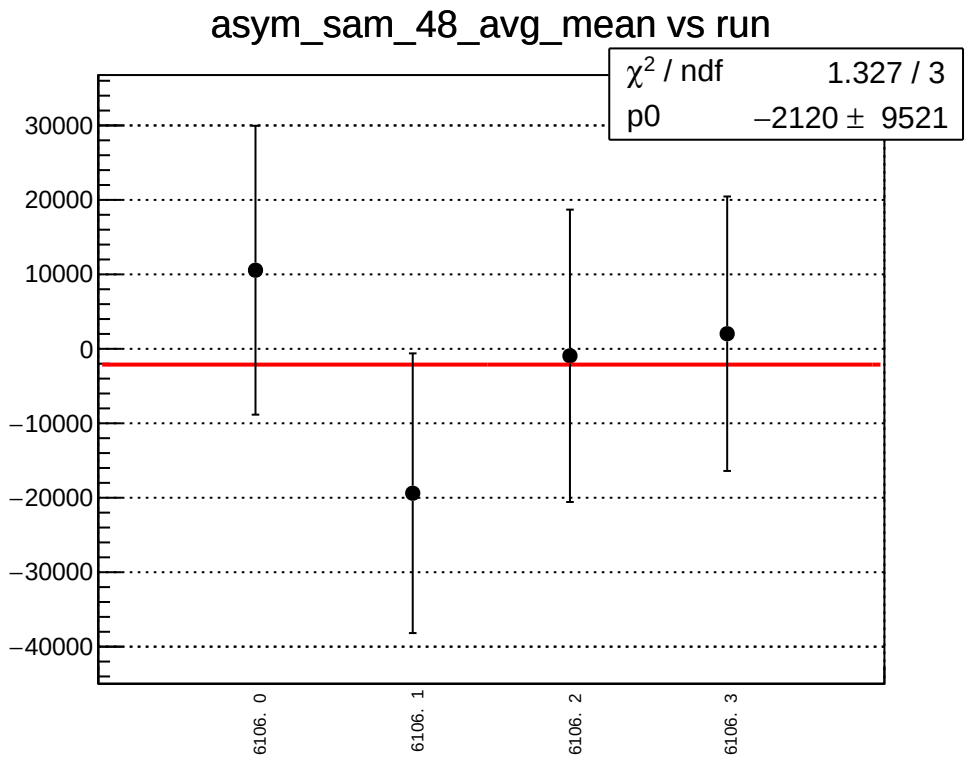

pull1D
Entries 4
Mean 0.0006761
Std Dev 0.3304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

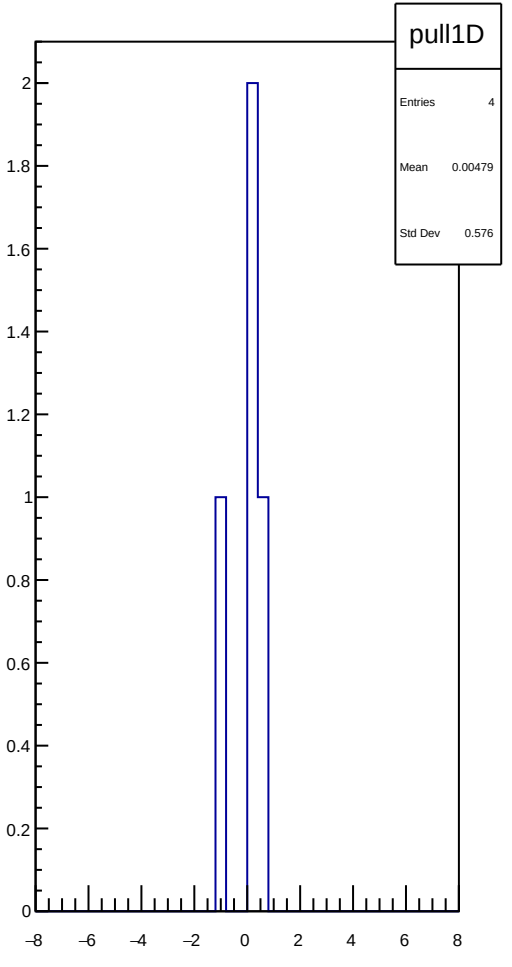

dit_asym_sam_48_avg_rms vs run
χ² / ndf 18.06 / 3
p0 161.2 ± 0.597
164
162
160
158
156
6106. 0
6106. 1
6106. 2
6106. 3

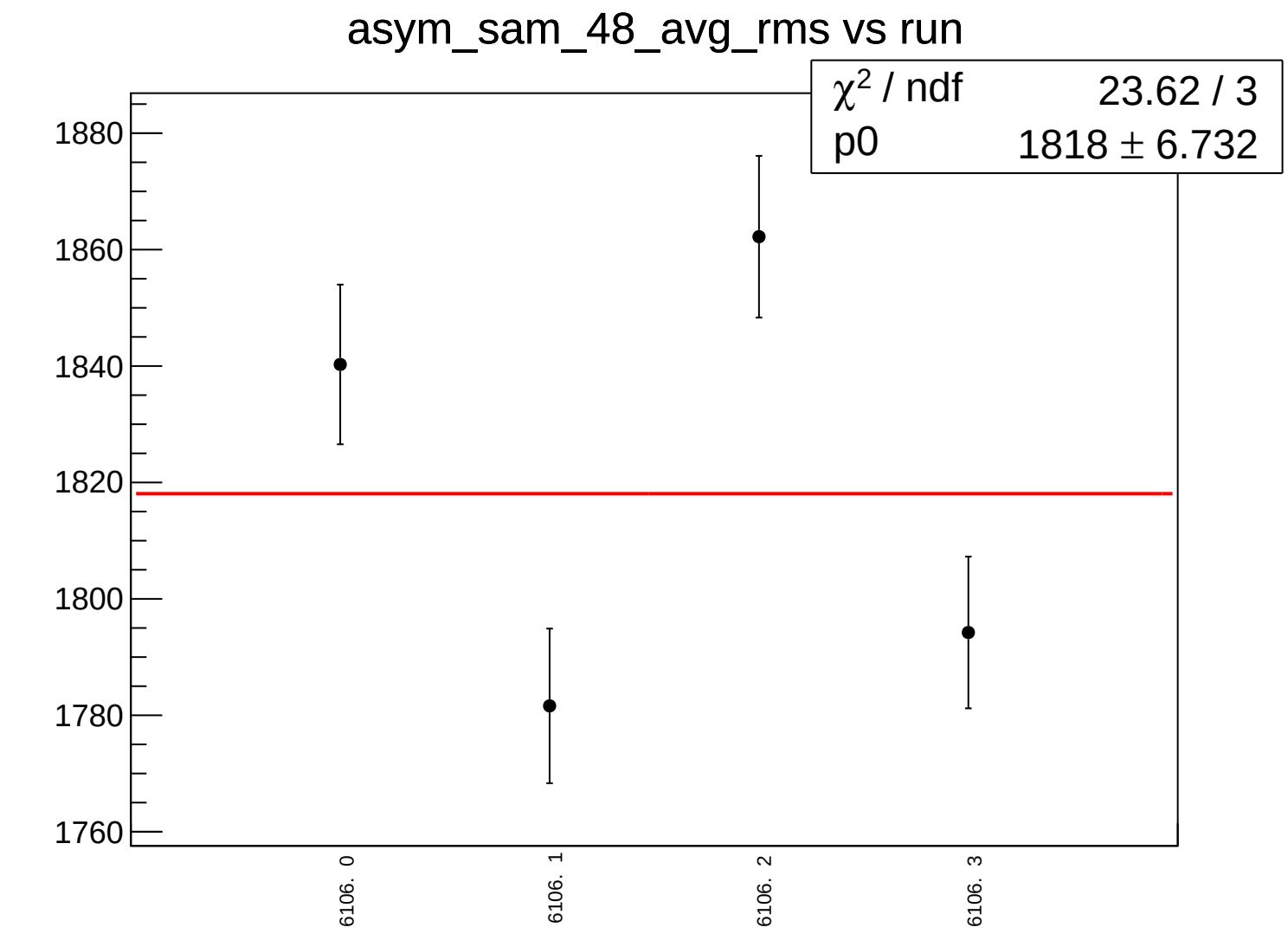

asym_sam_48_avg_correction_mean vs run
χ² / ndf 1.477 / 3
p0 2813 ± 9387
40000
30000
20000
10000
0
−10000
−20000
−30000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −1.901
Std Dev 6.837
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

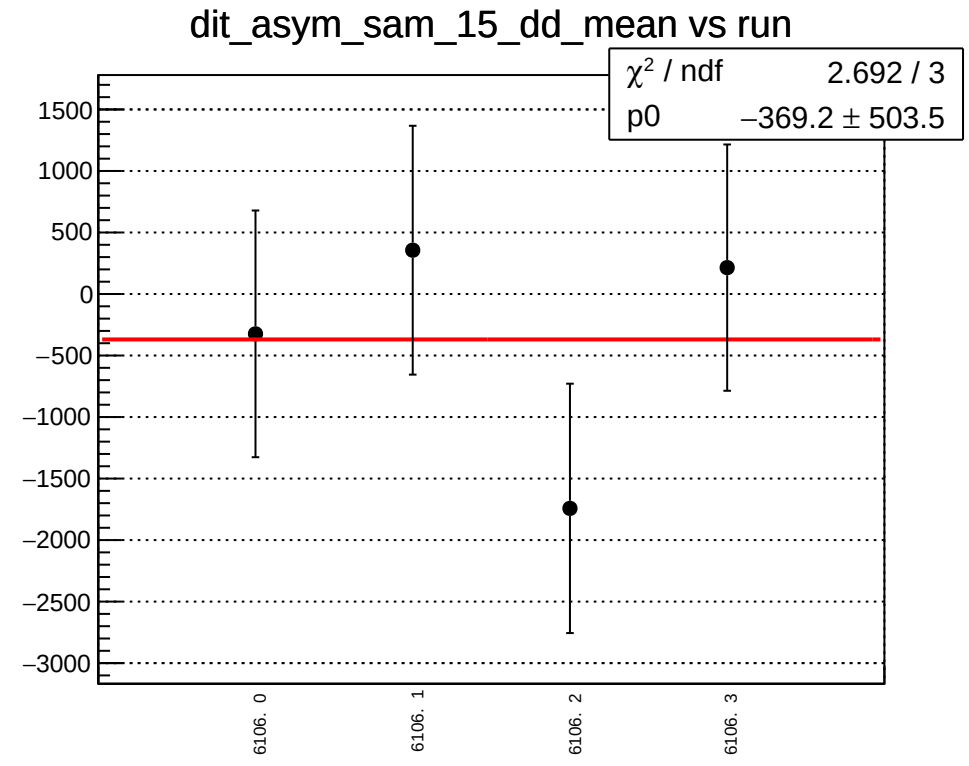

pull1D
Entries 4
Mean −0.007763
Std Dev 0.6076
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

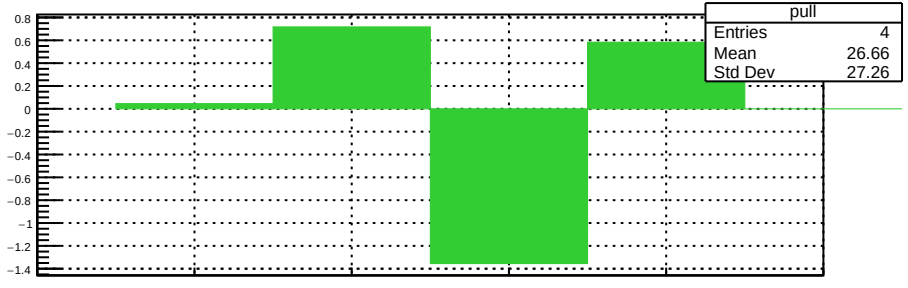

asym_sam_48_avg_correction_rms vs run
χ² / ndf 49.25 / 3
p0 1792 ± 6.637
1860
1840
1820
1800
1780
1760
1740
1720
6106. 0
6106. 1
6106. 2
6106. 3

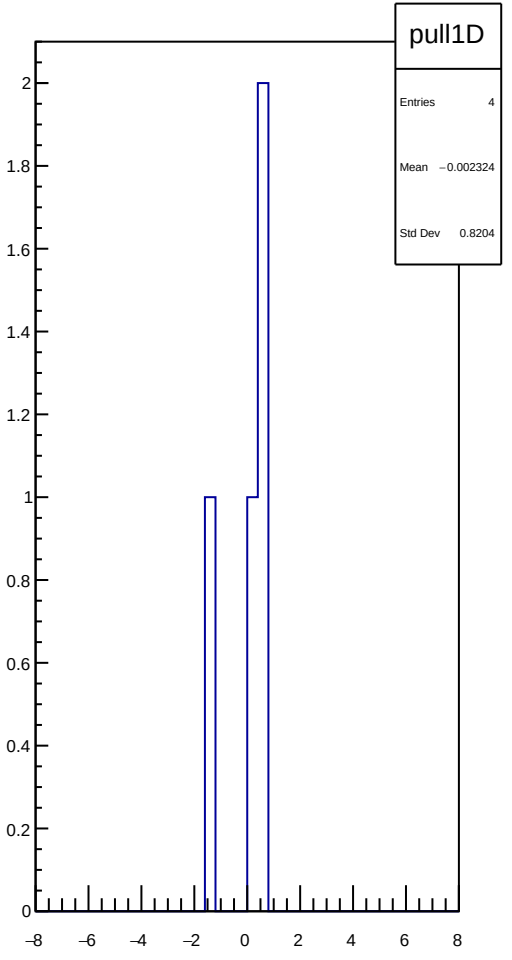

asym_sam_48_avg_mean vs run
χ² / ndf 1.327 / 3
p0 −2120 ± 9521
30000
20000
10000
0
−10000
−20000
−30000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −5.963
Std Dev 5.343
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

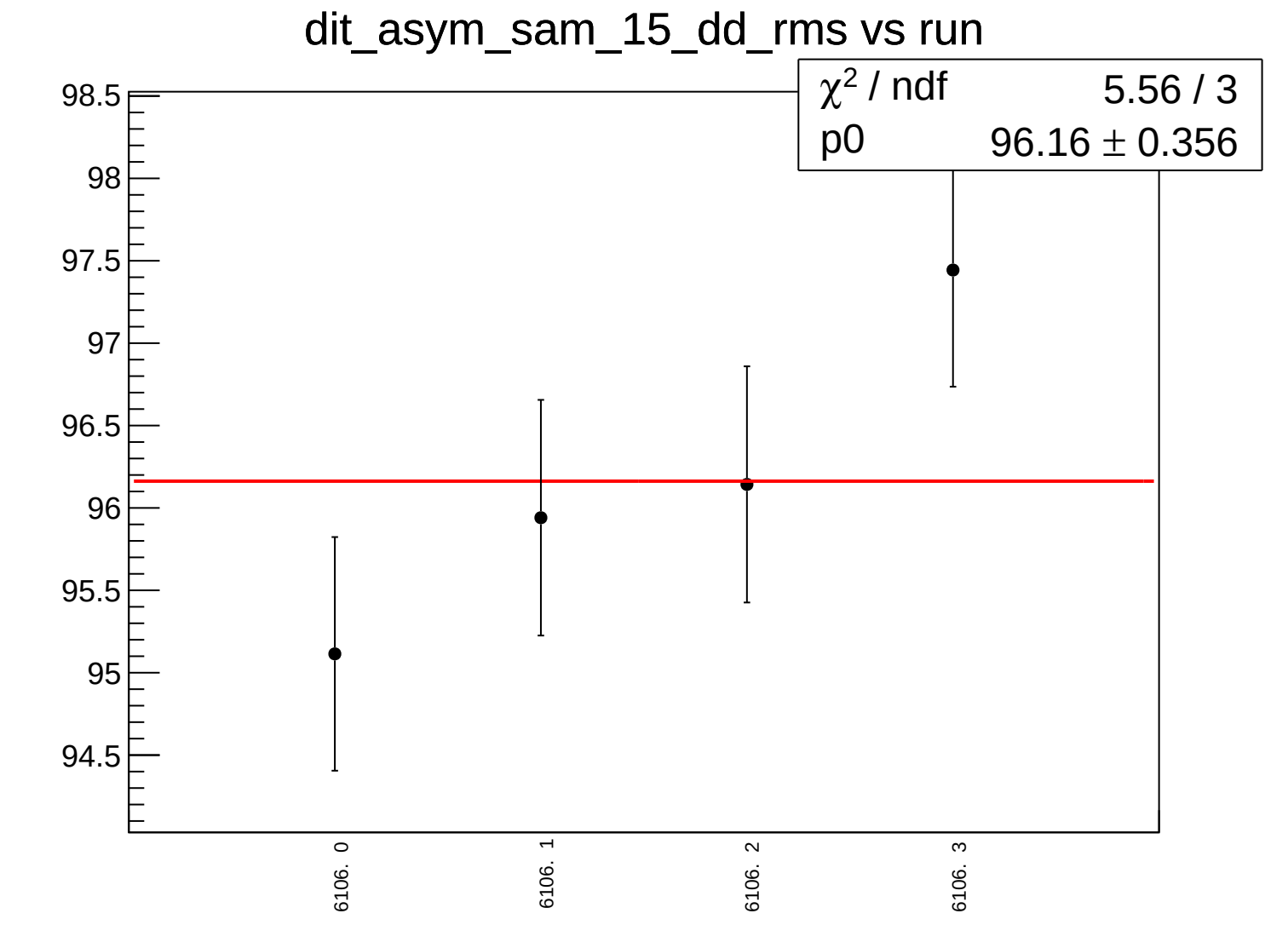

pull1D
Entries 4
Mean 0.00479
Std Dev 0.576
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

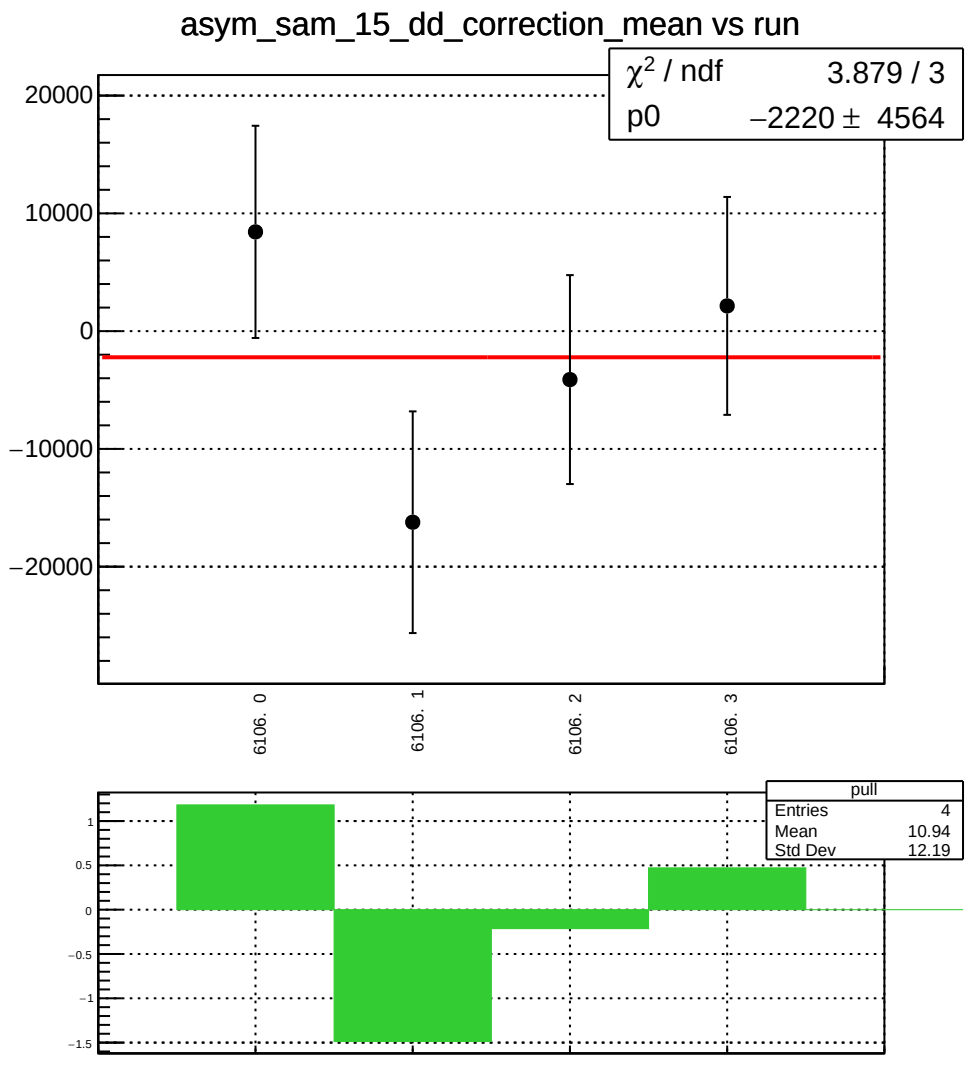

asym_sam_48_avg_rms vs run
χ² / ndf 23.62 / 3
p0 1818 ± 6.732
1880
1860
1840
1820
1800
1780
1760
6106. 0
6106. 1
6106. 2
6106. 3

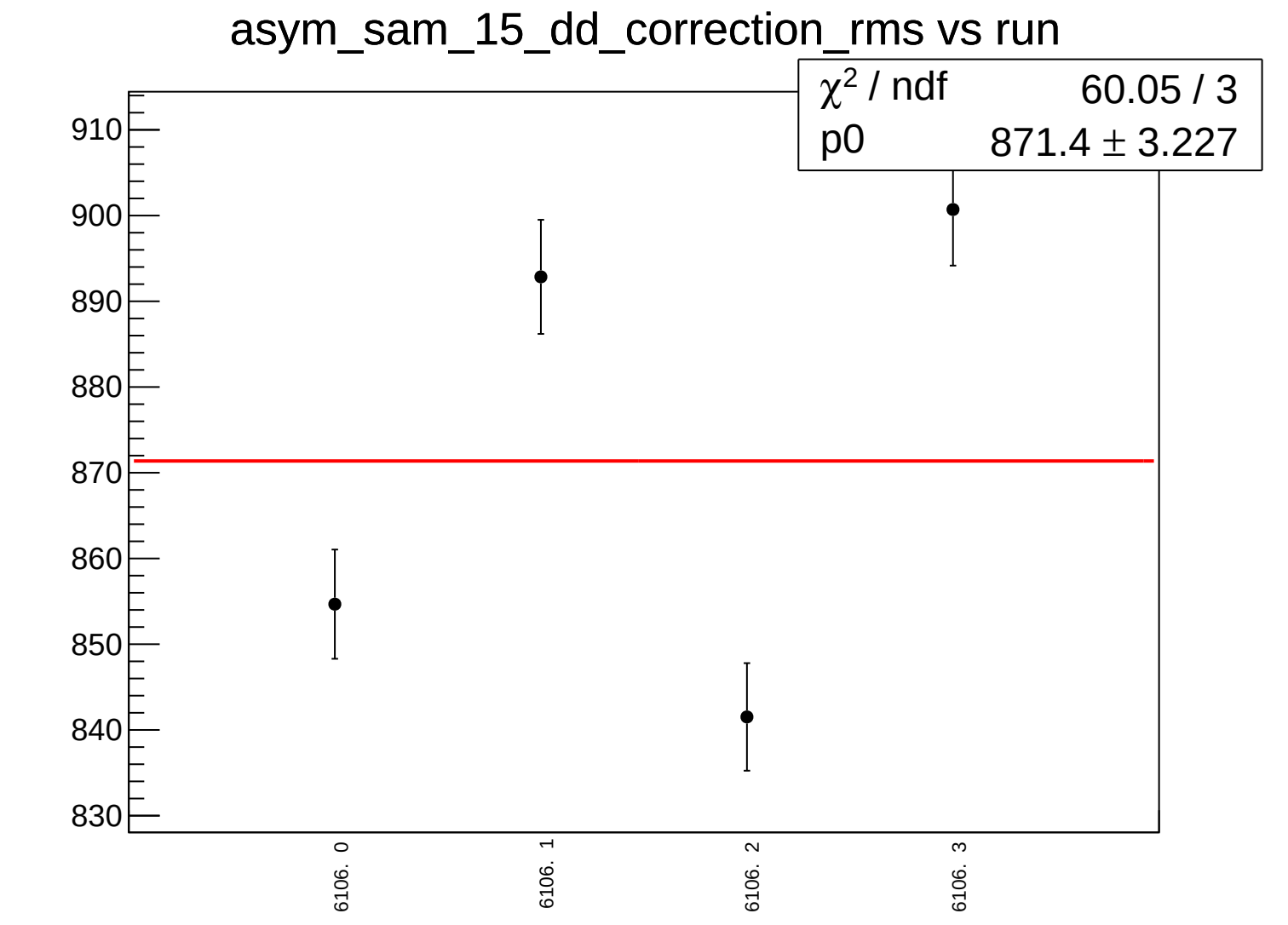

dit_asym_sam_15_dd_mean vs run
χ² / ndf 2.692 / 3
p0 −369.2 ± 503.5
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
6106. 0
6106. 1
6106. 2
6106. 3

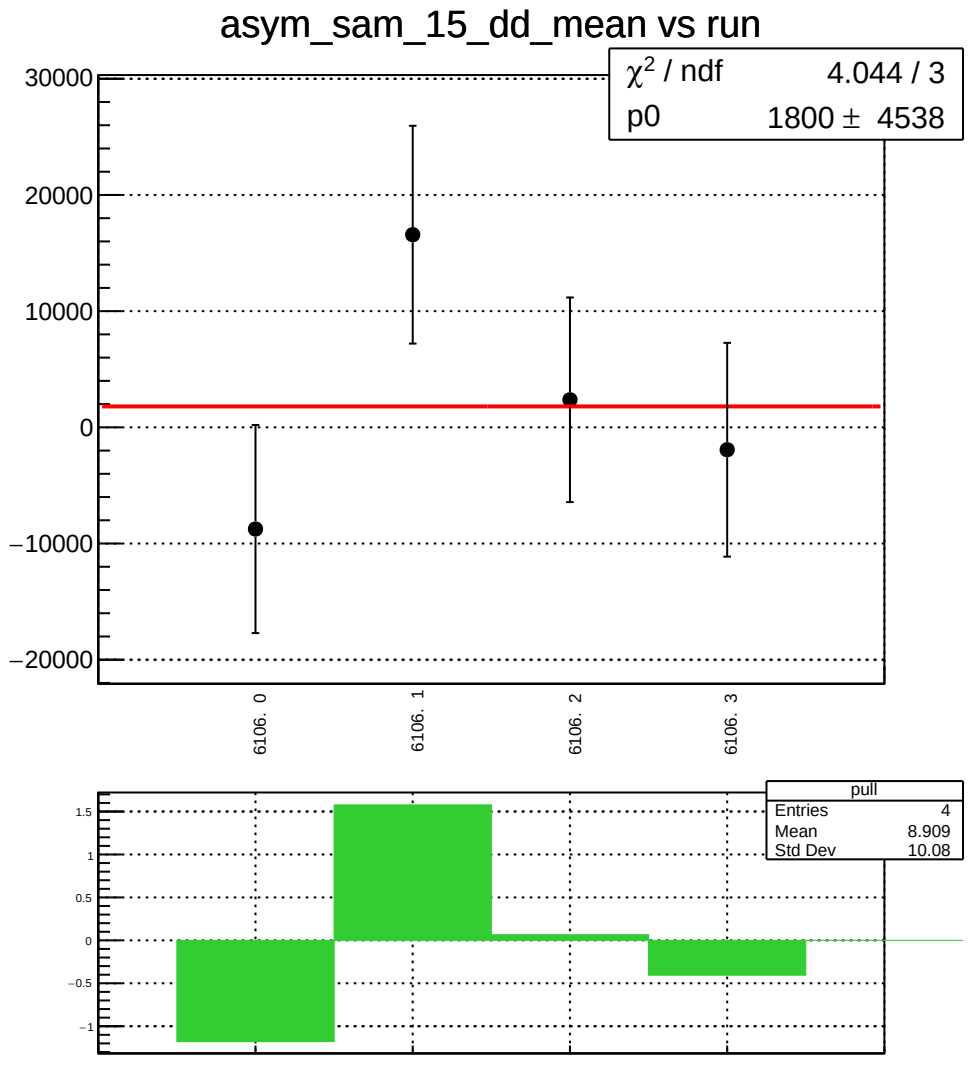

pull
Entries 4
Mean 26.66
Std Dev 27.26
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

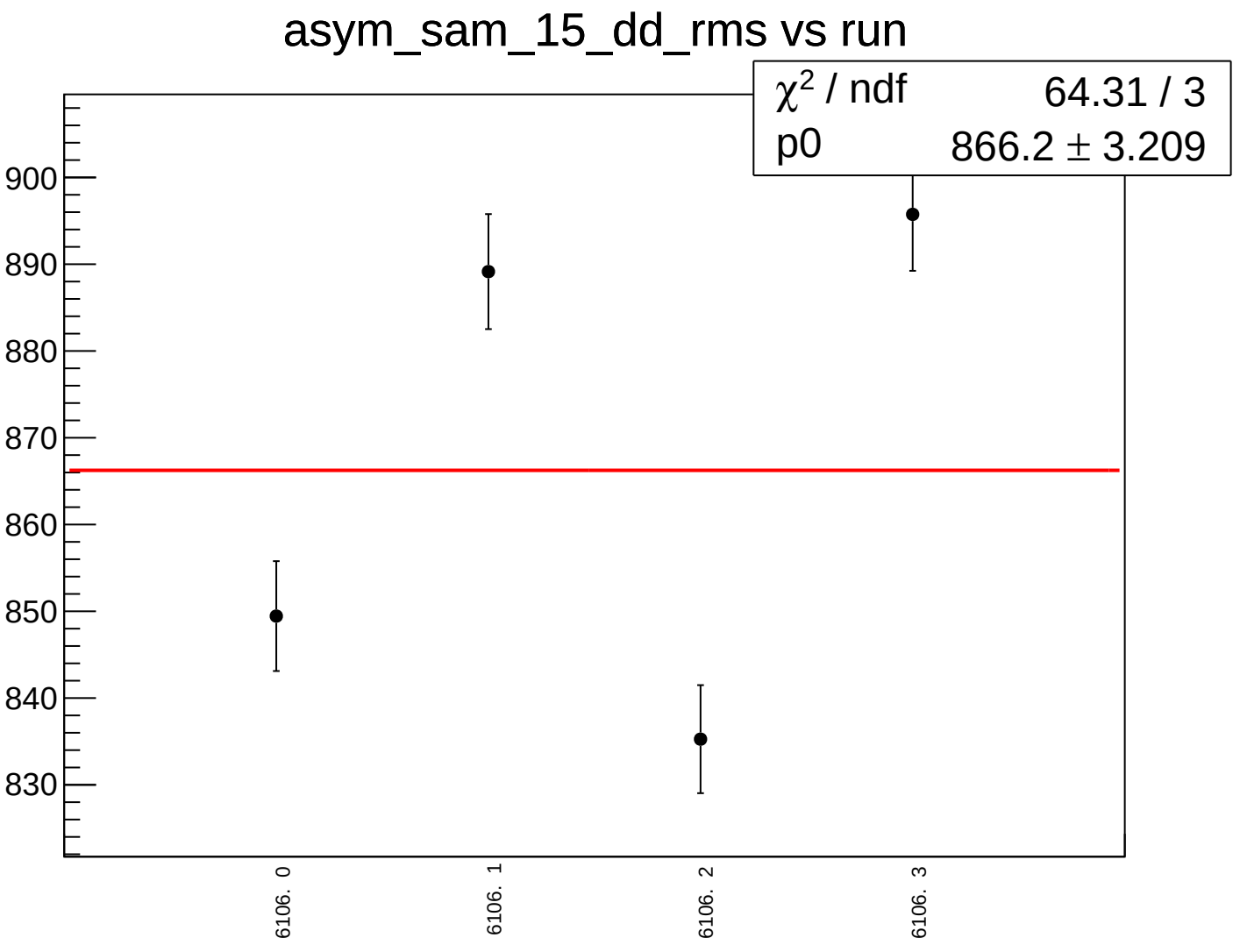

pull1D
Entries 4
Mean −0.002324
Std Dev 0.8204
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

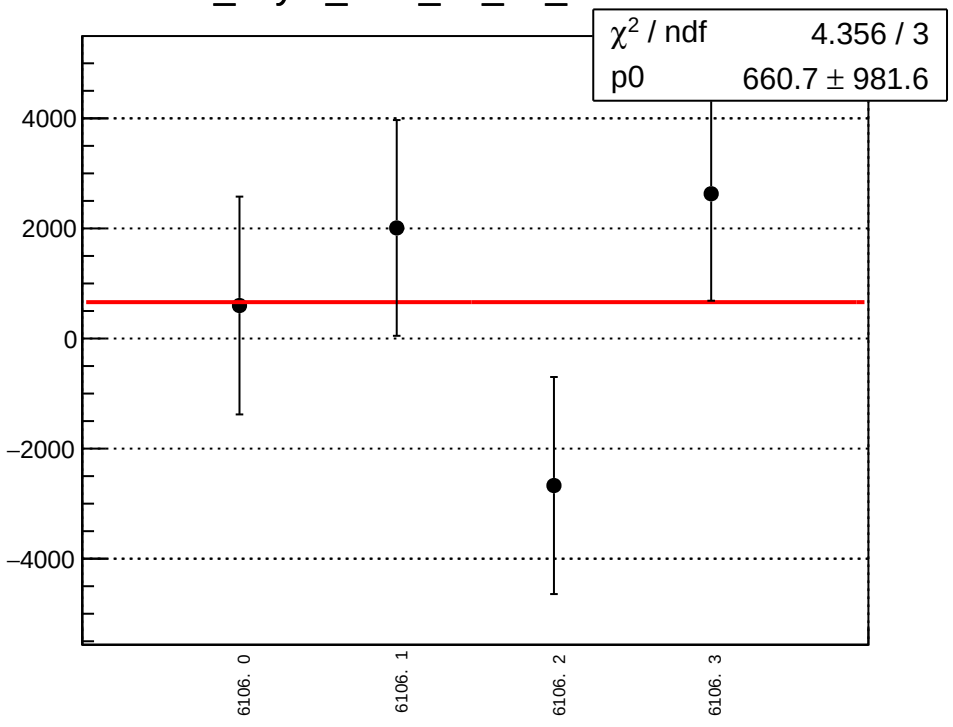

dit_asym_sam_15_dd_rms vs run
χ² / ndf 5.56 / 3
p0 96.16 ± 0.356
98.5
98
97.5
97
96.5
96
95.5
95
94.5
6106. 0
6106. 1
6106. 2
6106. 3

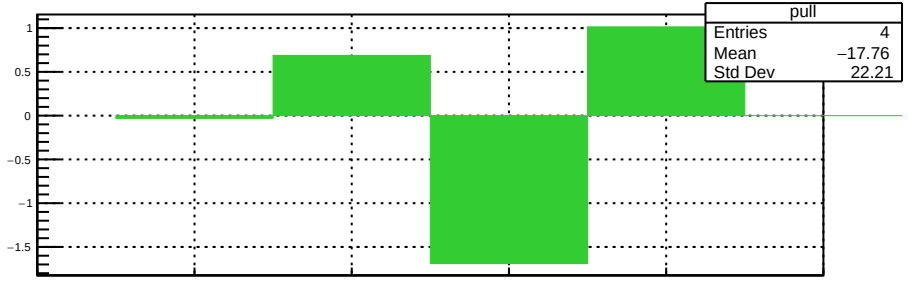

asym_sam_15_dd_correction_mean vs run
χ² / ndf 3.879 / 3
p0 −2220 ± 4564
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 10.94
Std Dev 12.19
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean −0.01198
Std Dev 0.9847
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

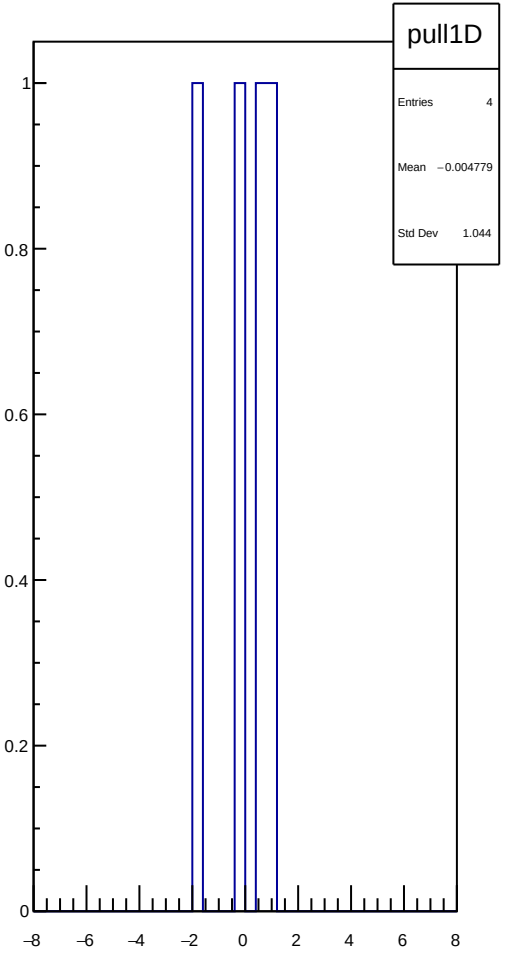

asym_sam_15_dd_correction_rms vs run
χ² / ndf 60.05 / 3
p0 871.4 ± 3.227
910
900
890
880
870
860
850
840
830
6106. 0
6106. 1
6106. 2
6106. 3

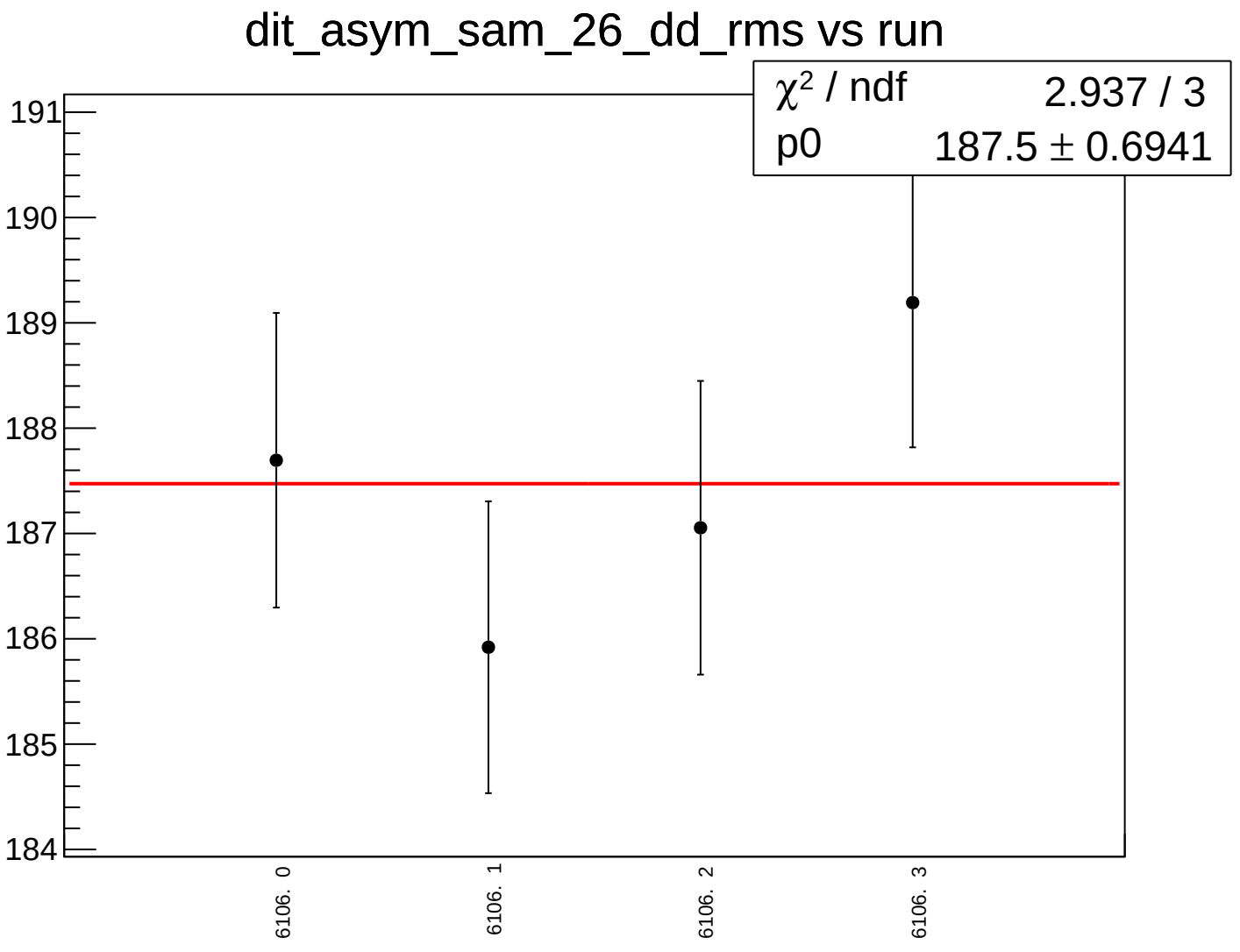

asym_sam_15_dd_mean vs run
χ² / ndf 4.044 / 3
p0 1800 ± 4538
30000
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 8.909
Std Dev 10.08
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean 0.01461
Std Dev 1.005
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

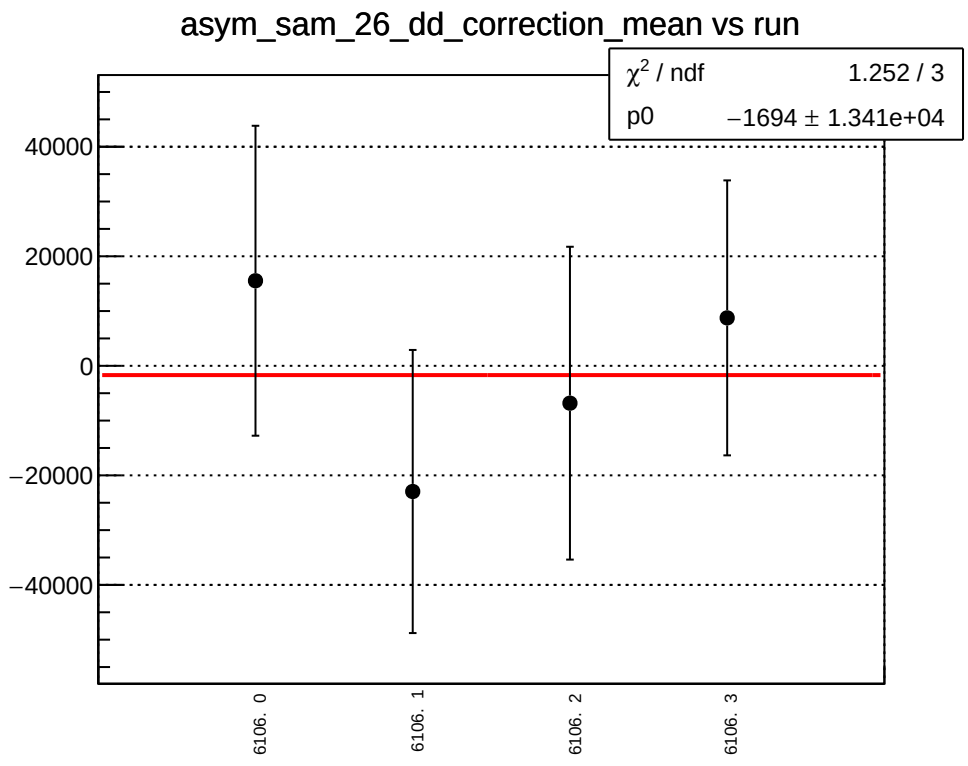

asym_sam_15_dd_rms vs run
χ² / ndf 64.31 / 3
p0 866.2 ± 3.209
900
890
880
870
860
850
840
830
6106. 0
6106. 1
6106. 2
6106. 3

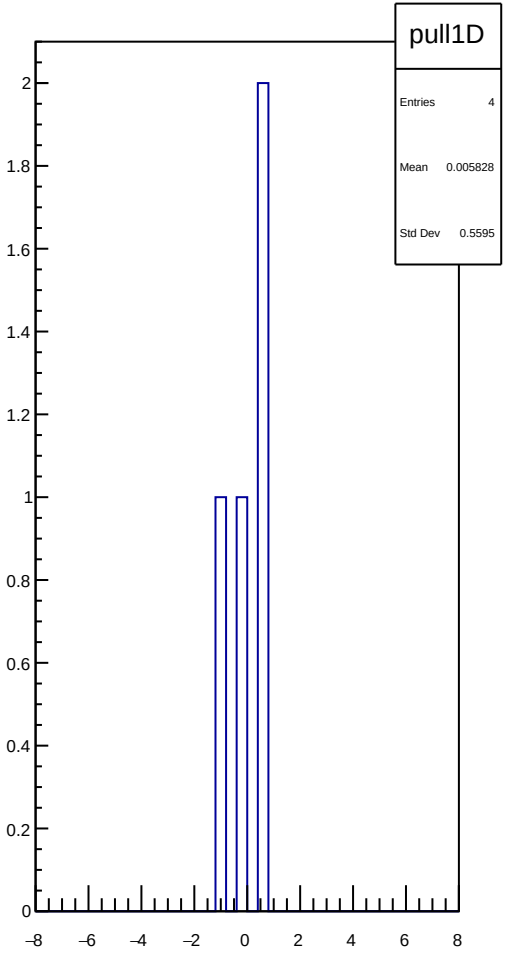

dit_asym_sam_26_dd_mean vs run
χ² / ndf 4.356 / 3
p0 660.7 ± 981.6
4000
2000
0
−2000
−4000
6106. 0
6106. 1
6106. 2
6106. 3

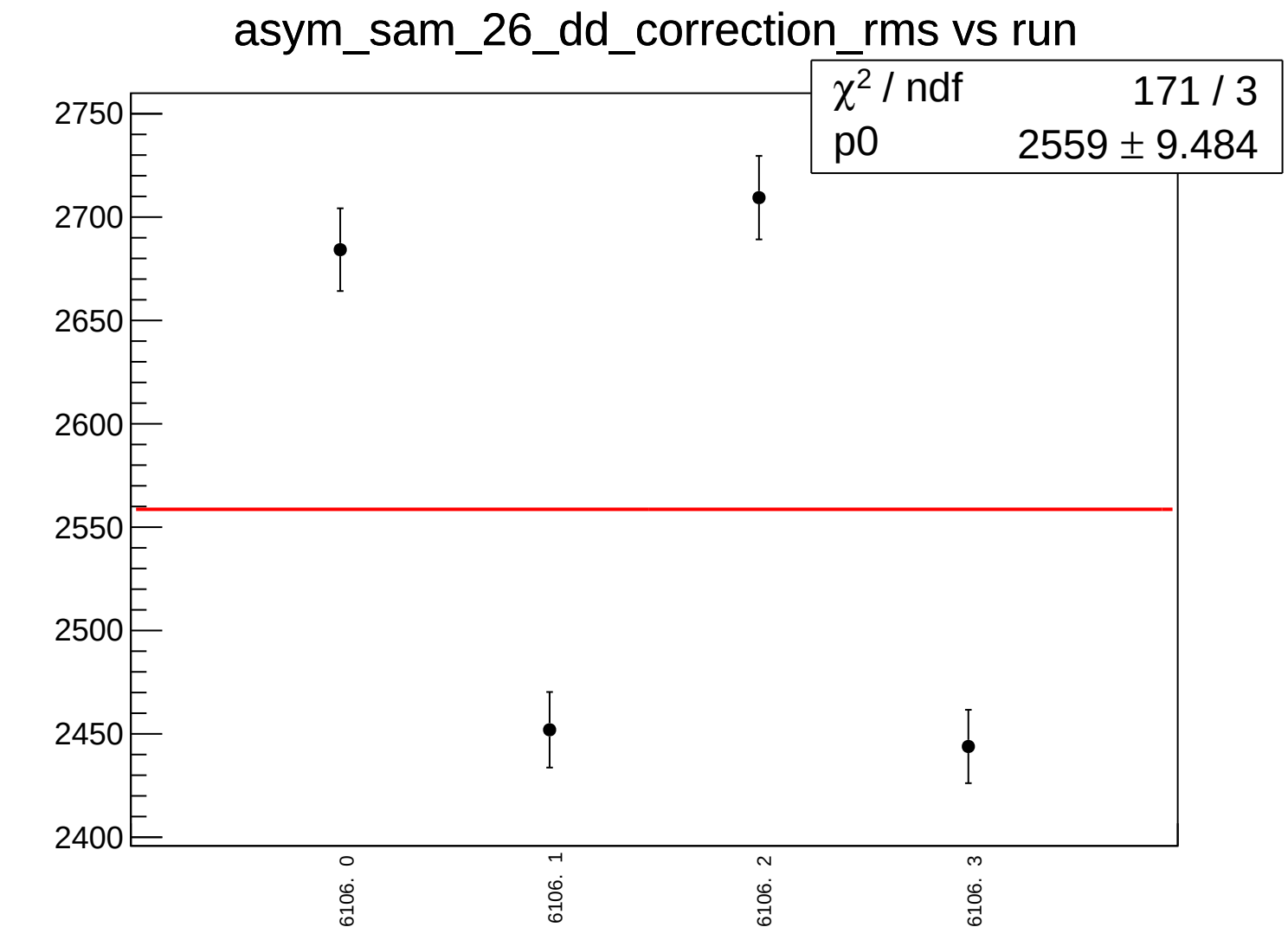

pull
Entries 4
Mean −17.76
Std Dev 22.21
1
0.5
0
−0.5
−1
−1.5

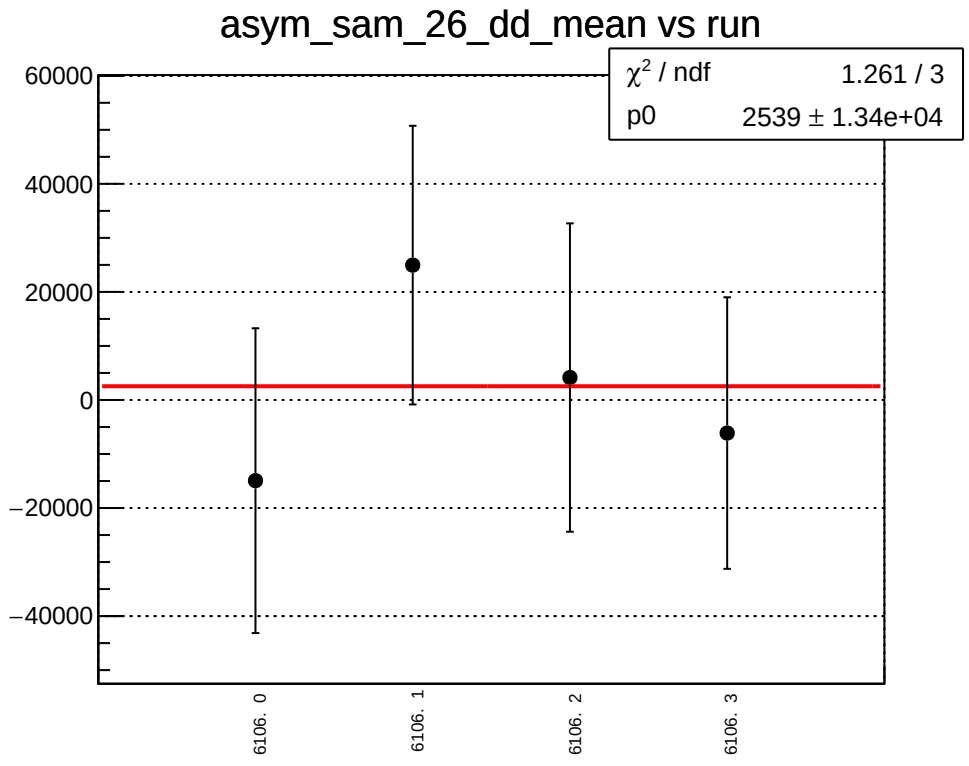

pull1D
Entries 4
Mean −0.004779
Std Dev 1.044
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

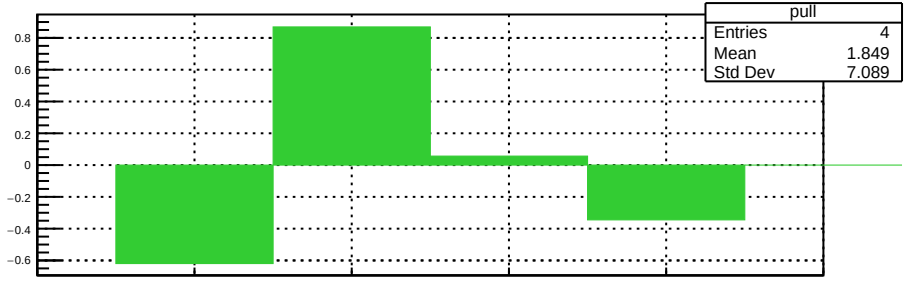

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2.937 / 3
p0 187.5 ± 0.6941
191
190
189
188
187
186
185
184
6106. 0
6106. 1
6106. 2
6106. 3

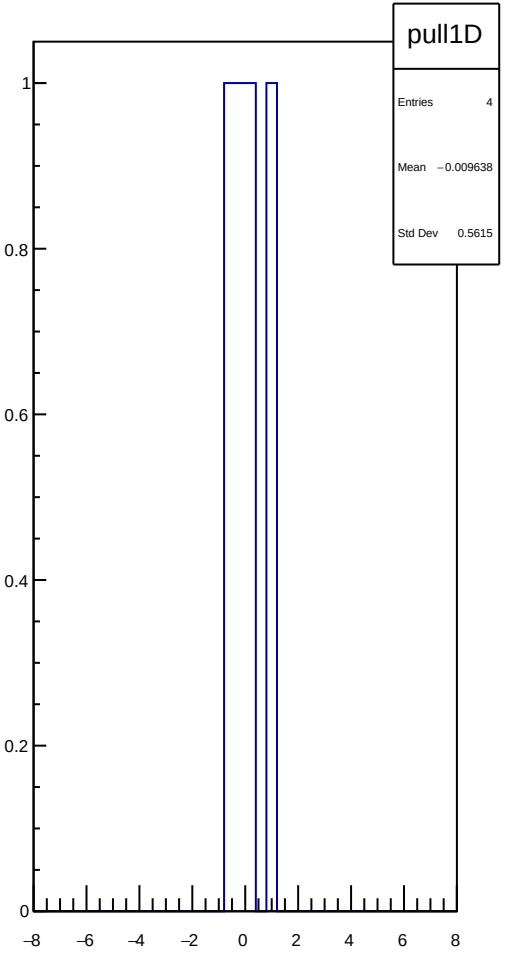

asym_sam_26_dd_correction_mean vs run
χ² / ndf 1.252 / 3
p0 −1694 ± 1.341e+04
40000
20000
0
−20000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 3.388
Std Dev 9.289
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

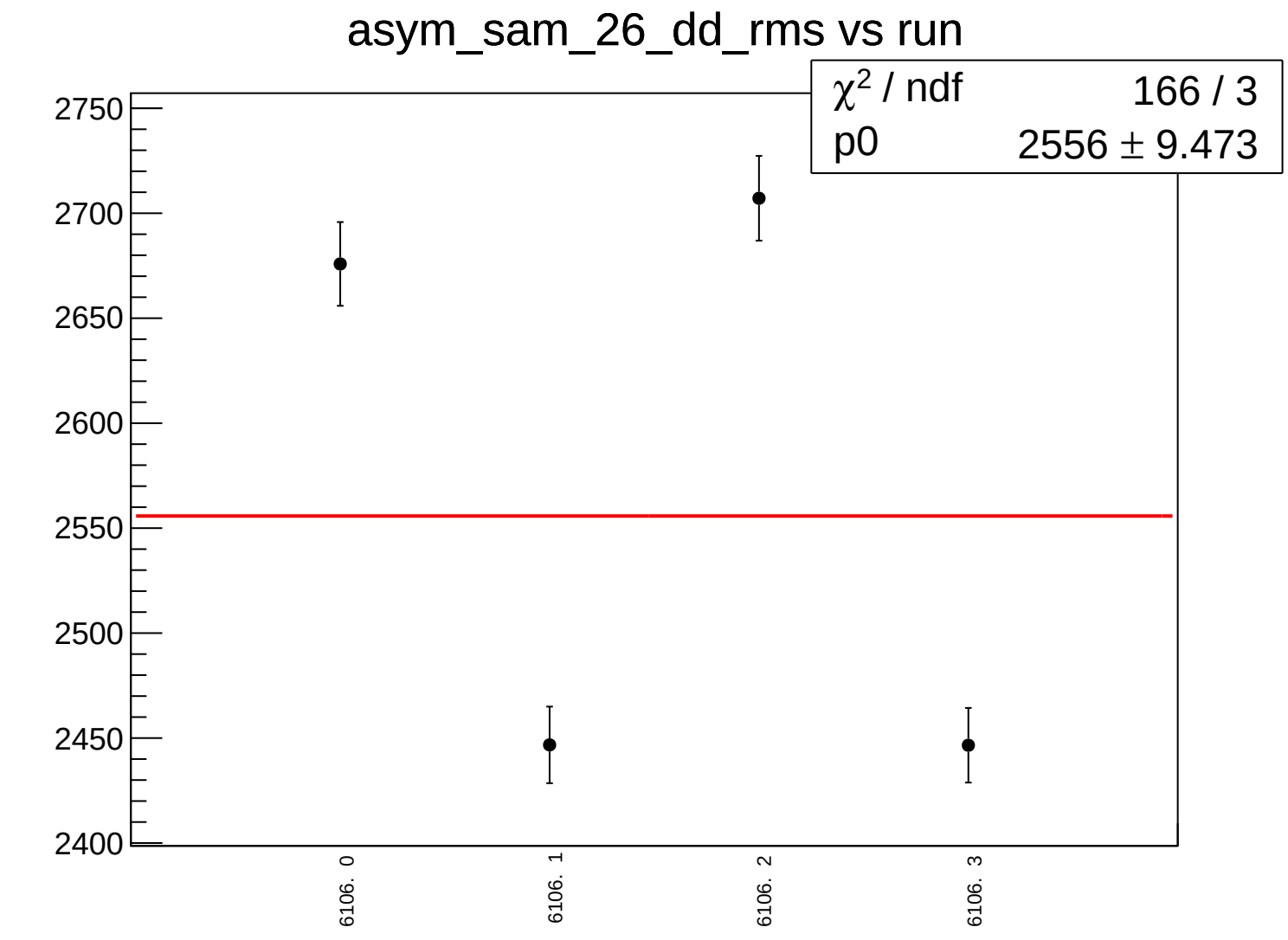

pull1D
Entries 4
Mean 0.005828
Std Dev 0.5595
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

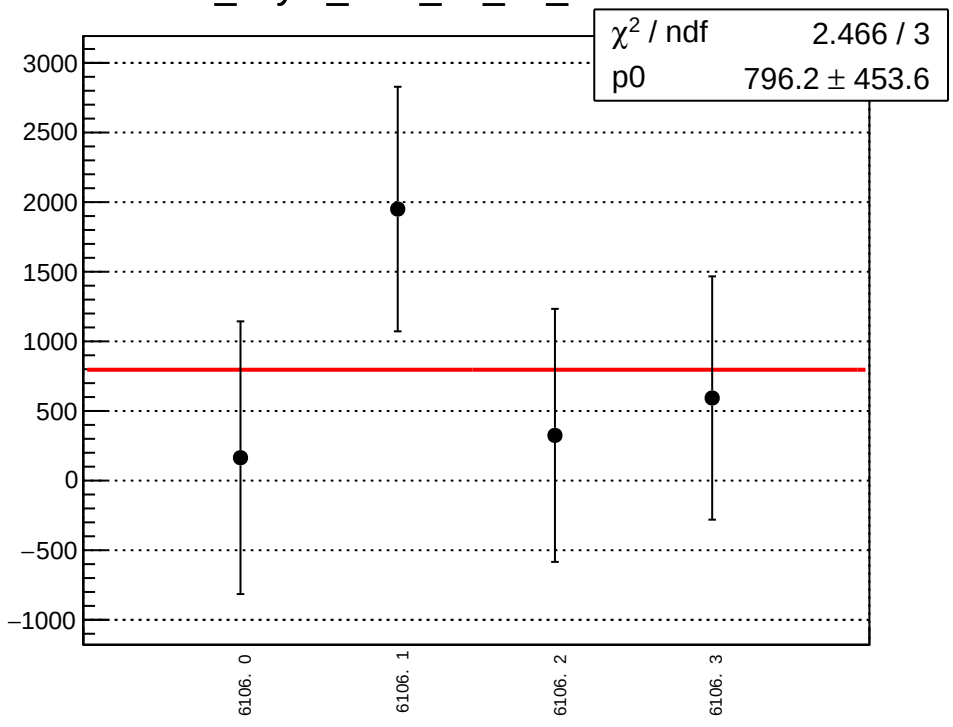

asym_sam_26_dd_correction_rms vs run
χ² / ndf 171 / 3
p0 2559 ± 9.484
2750
2700
2650
2600
2550
2500
2450
2400
6106. 0
6106. 1
6106. 2
6106. 3

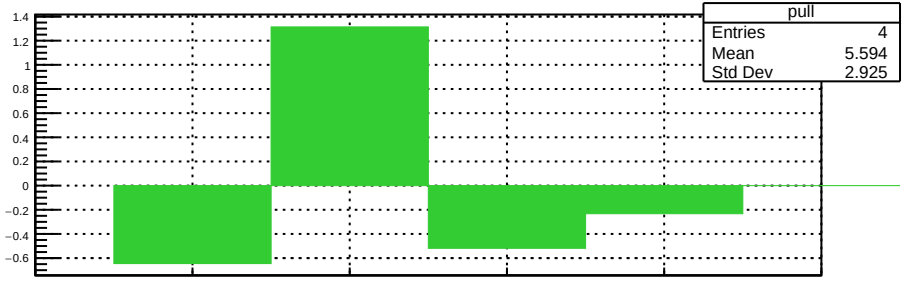

asym_sam_26_dd_mean vs run
χ² / ndf 1.261 / 3
p0 2539 ± 1.34e+04
60000
40000
20000
0
−20000
−40000
6106. 0
6106. 1
6106. 2
6106. 3

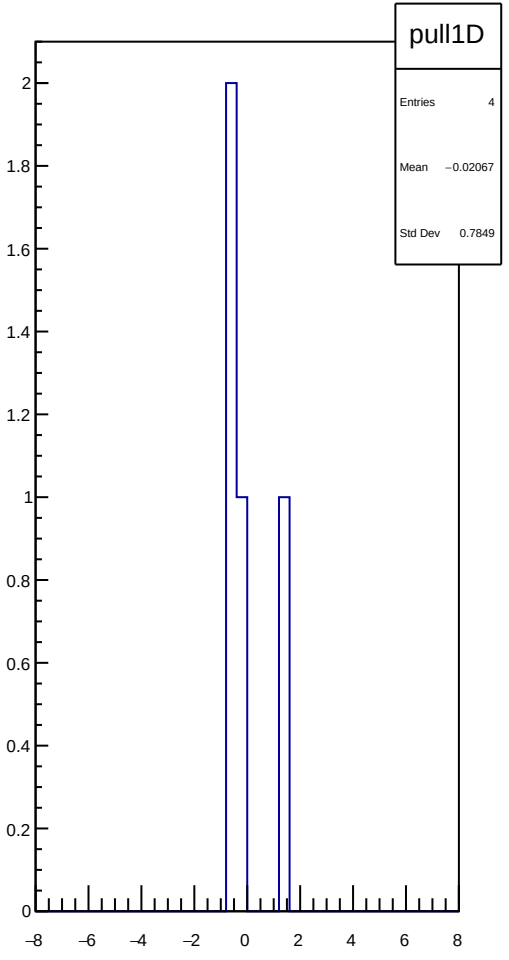

pull
Entries 4
Mean 1.849
Std Dev 7.089
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

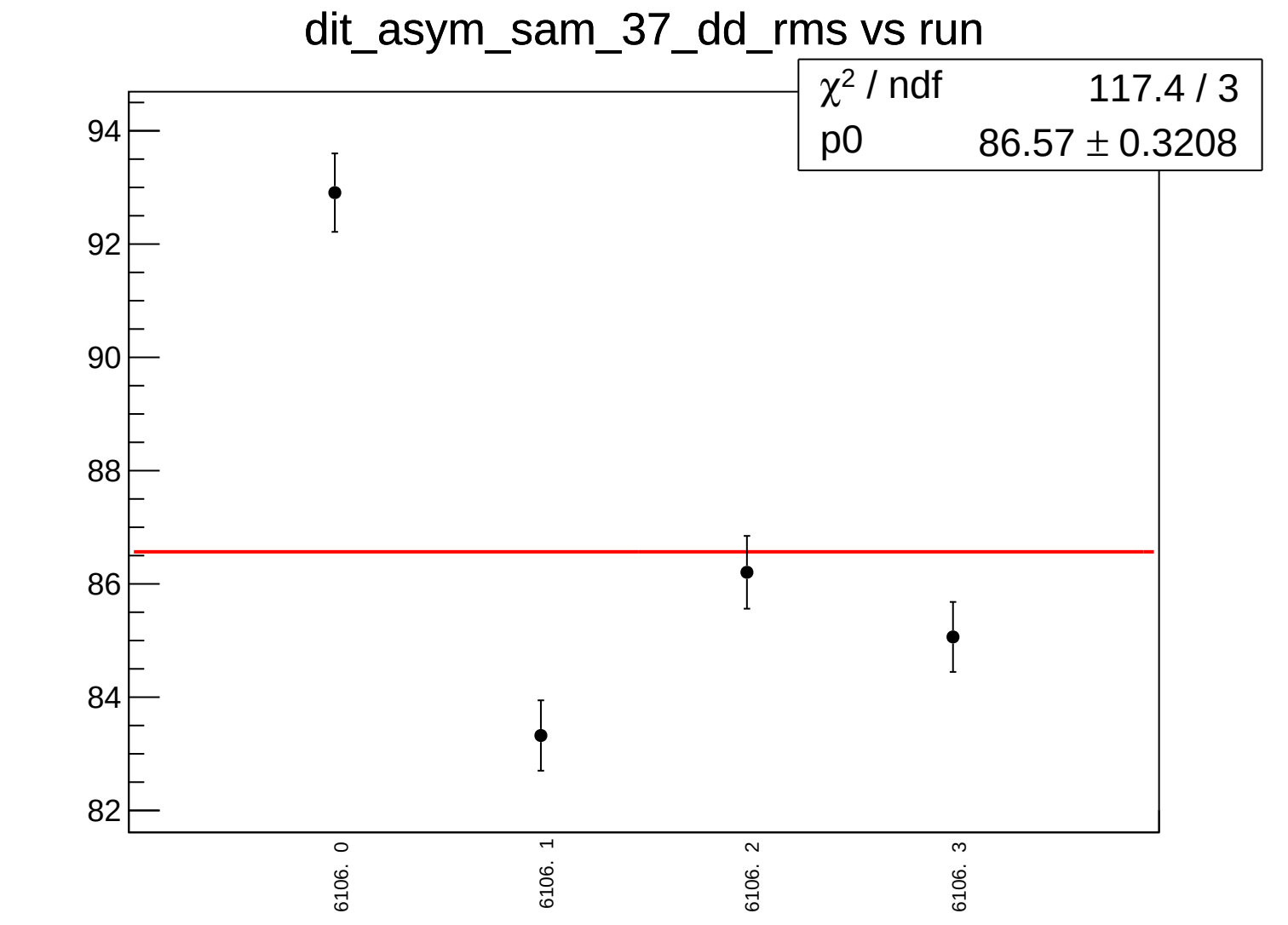

pull1D
Entries 4
Mean −0.009638
Std Dev 0.5615
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

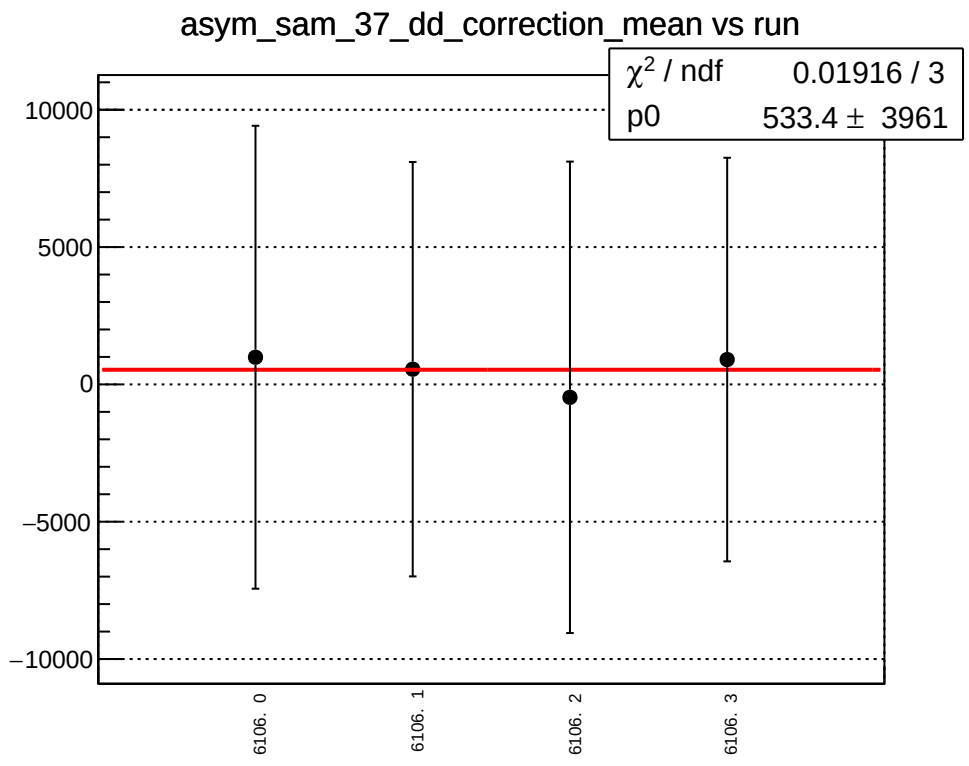

asym_sam_26_dd_rms vs run
χ² / ndf 166 / 3
p0 2556 ± 9.473
2750
2700
2650
2600
2550
2500
2450
2400
6106. 0
6106. 1
6106. 2
6106. 3

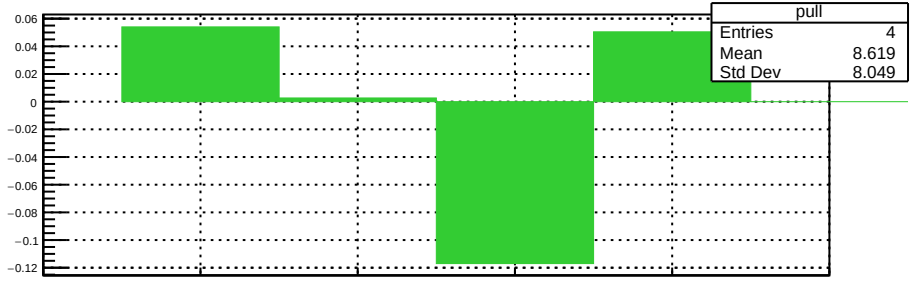

dit_asym_sam_37_dd_mean vs run
χ² / ndf 2.466 / 3
p0 796.2 ± 453.6
3000
2500
2000
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3

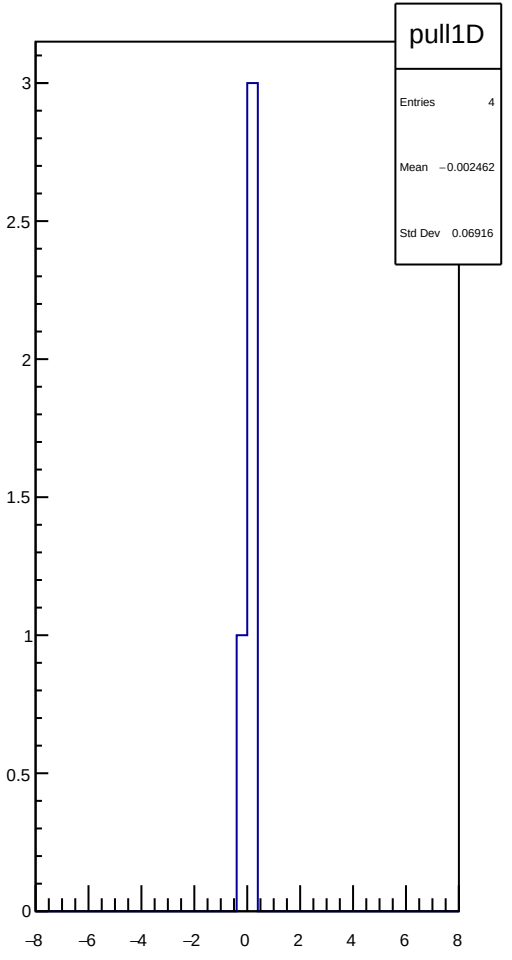

pull
Entries 4
Mean 5.594
Std Dev 2.925
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

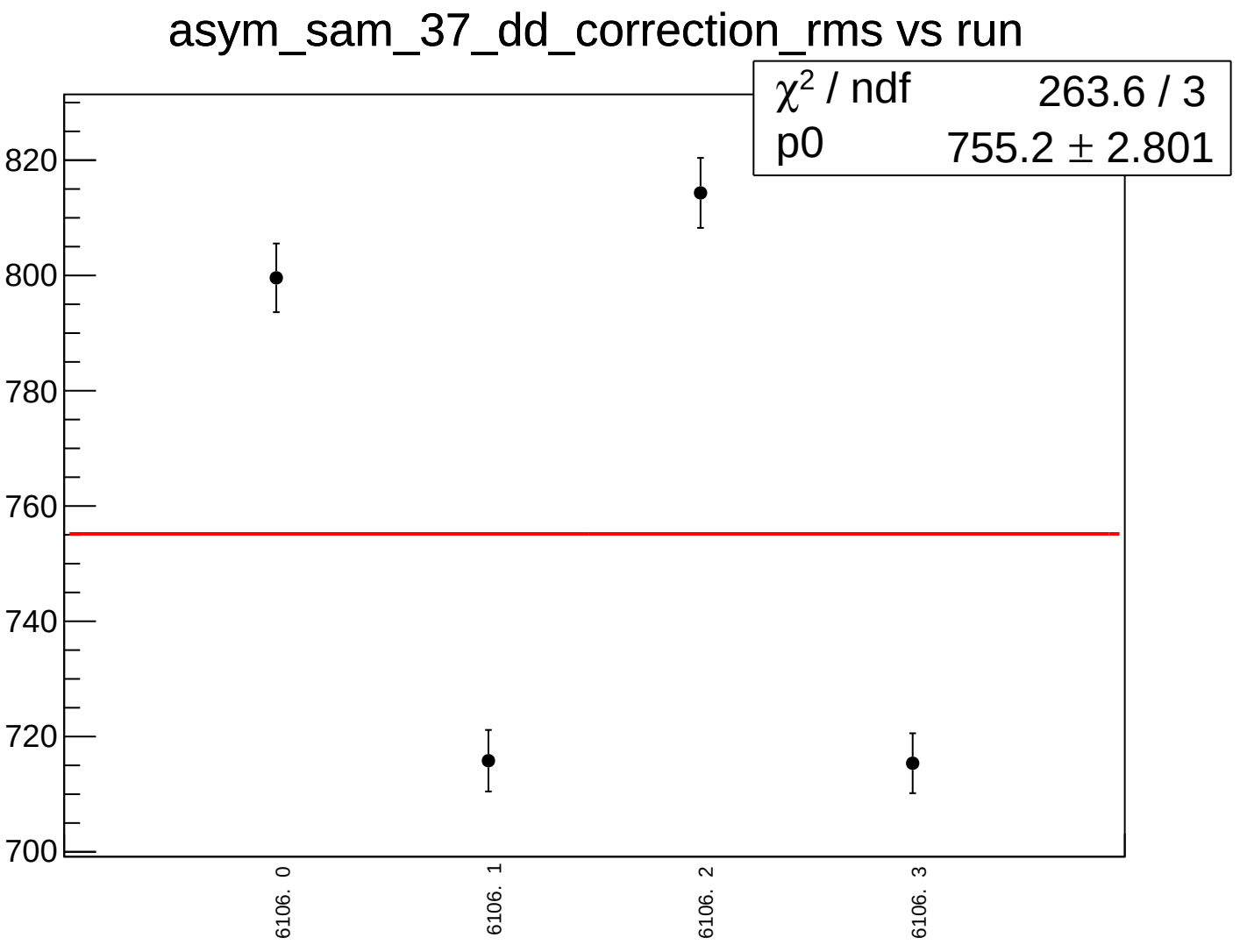

pull1D
Entries 4
Mean −0.02067
Std Dev 0.7849
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

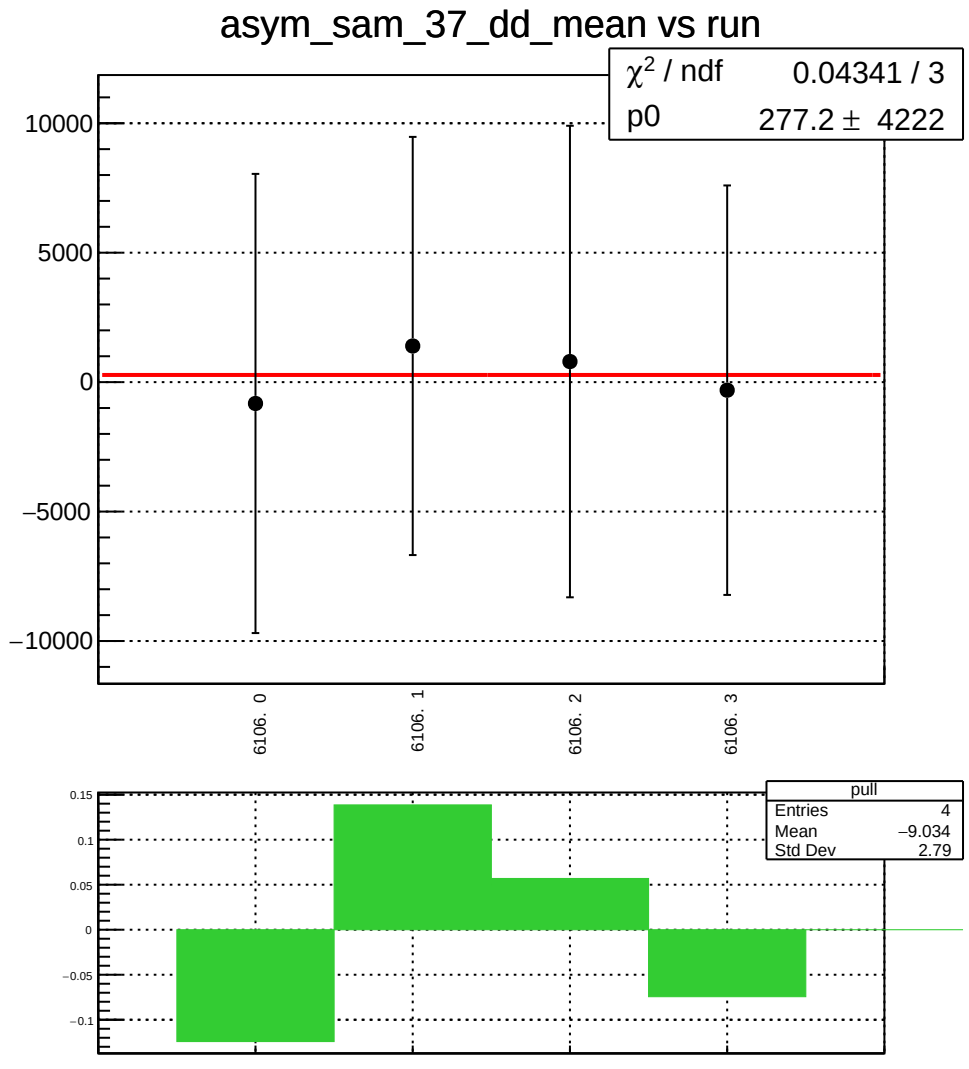

dit_asym_sam_37_dd_rms vs run
χ² / ndf 117.4 / 3
p0 86.57 ± 0.3208
94
92
90
88
86
84
82
6106. 0
6106. 1
6106. 2
6106. 3

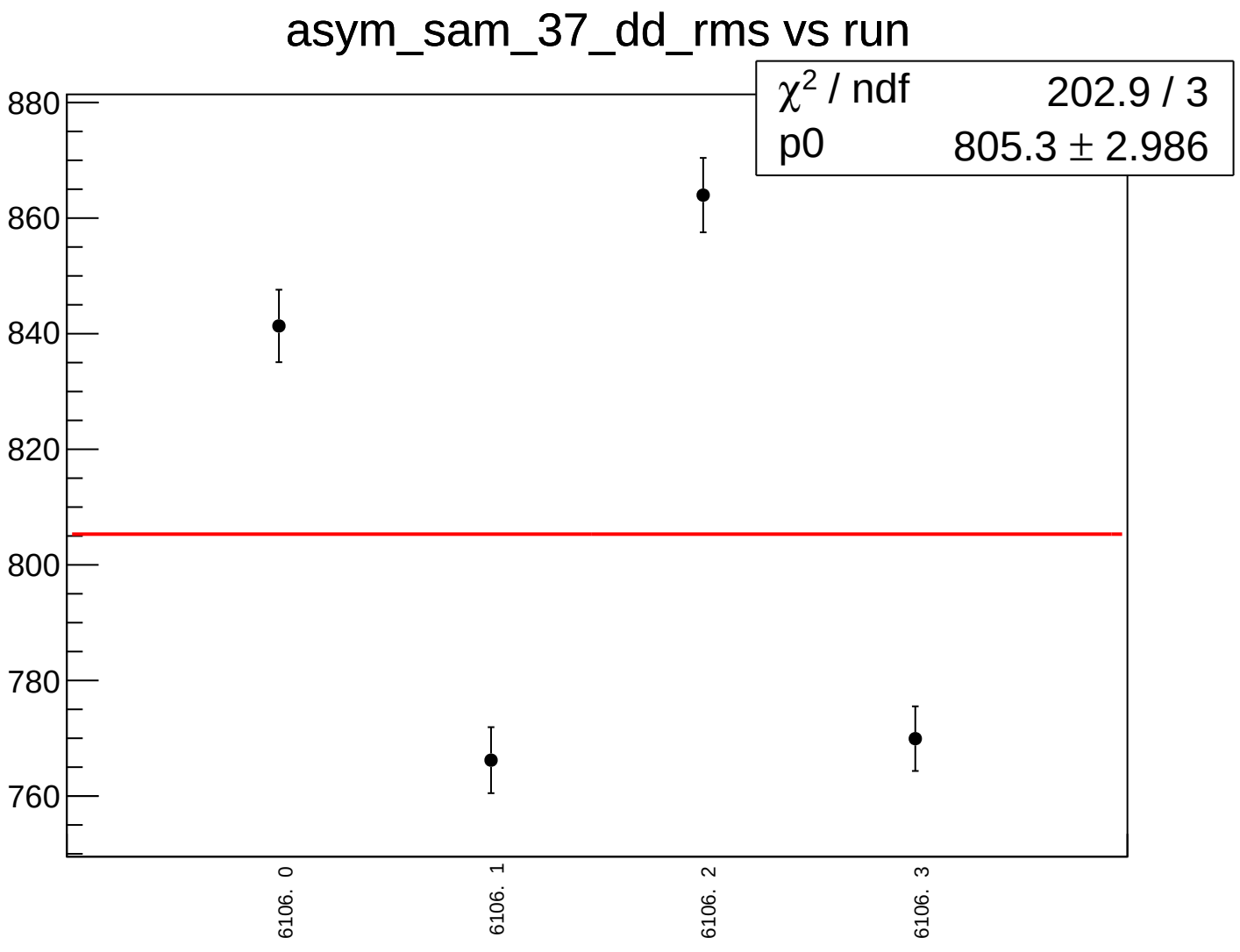

asym_sam_37_dd_correction_mean vs run
χ² / ndf 0.01916 / 3
p0 533.4 ± 3961
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3

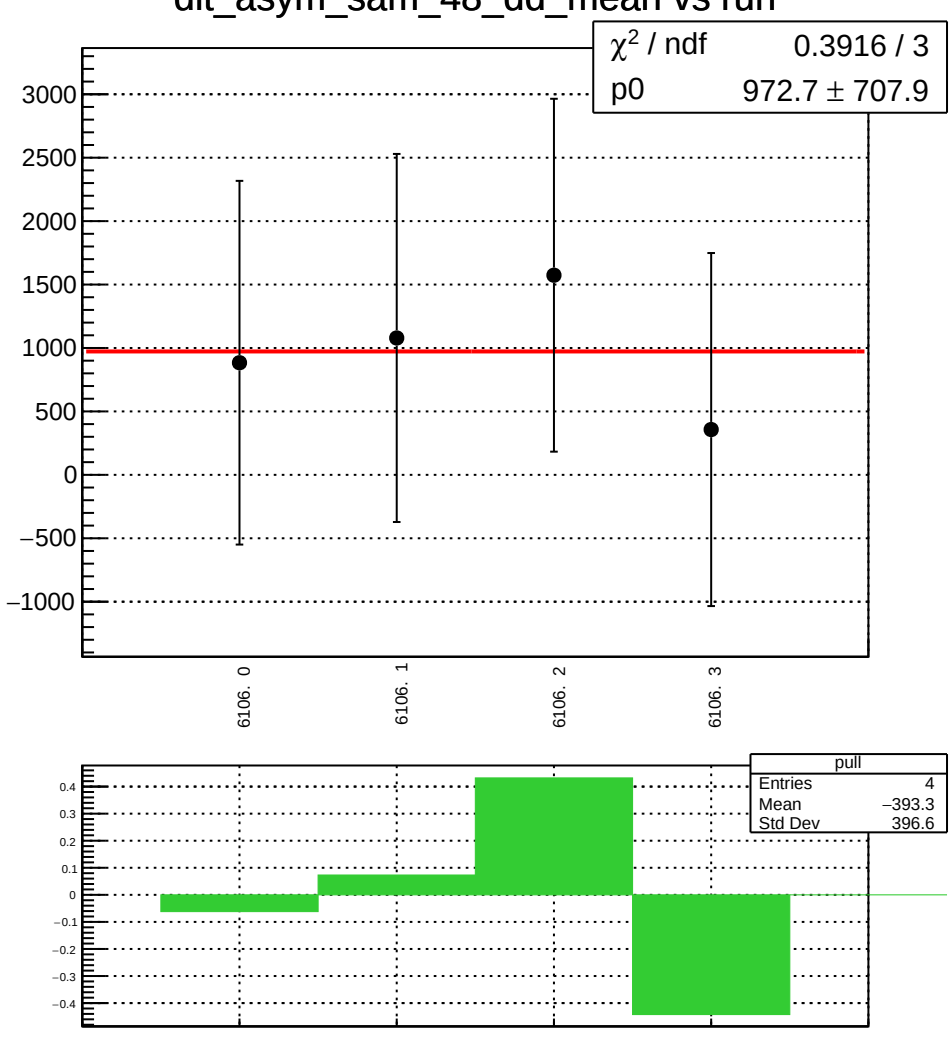

pull
Entries 4
Mean 8.619
Std Dev 8.049
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12

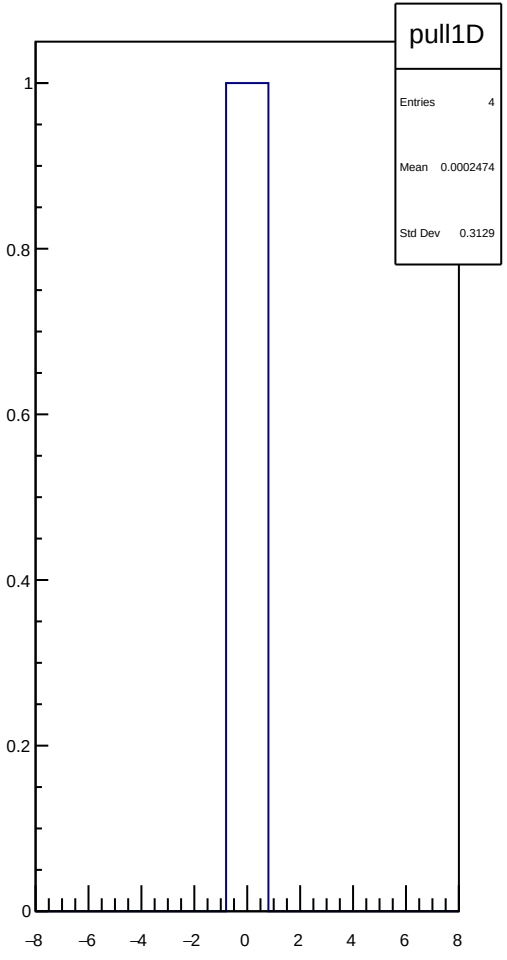

pull1D
Entries 4
Mean −0.002462
Std Dev 0.06916
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

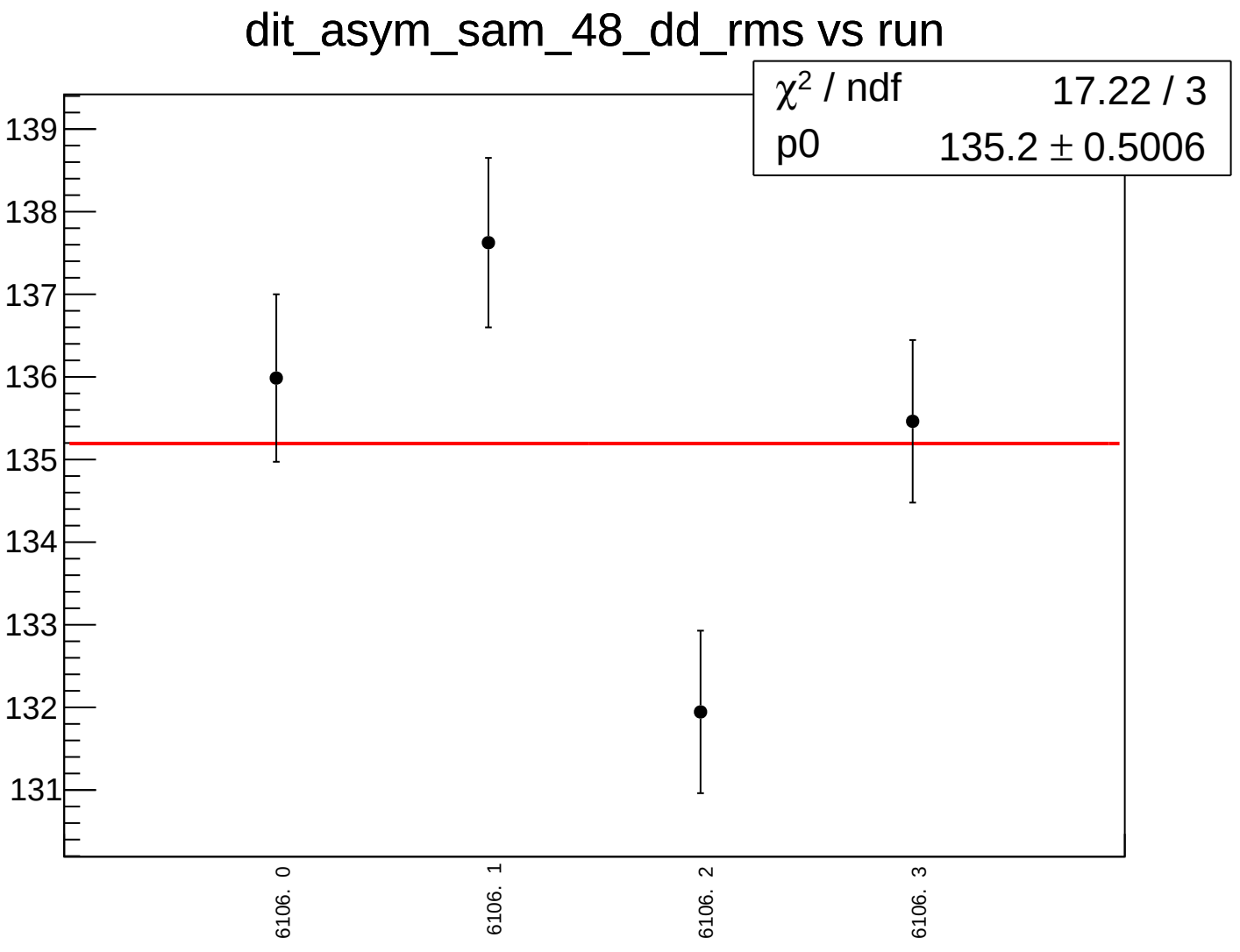

asym_sam_37_dd_correction_rms vs run
χ² / ndf 263.6 / 3
p0 755.2 ± 2.801
820
800
780
760
740
720
700
6106. 0
6106. 1
6106. 2
6106. 3

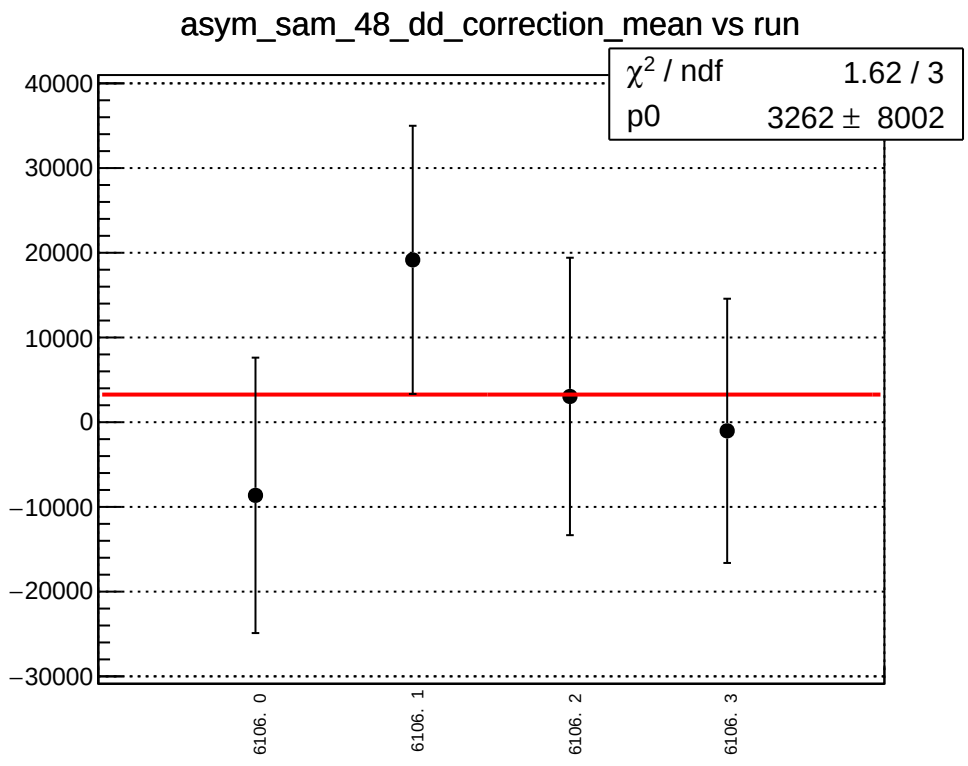

asym_sam_37_dd_mean vs run
χ² / ndf 0.04341 / 3
p0 277.2 ± 4222
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −9.034
Std Dev 2.79
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean −0.0007681
Std Dev 0.1042
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

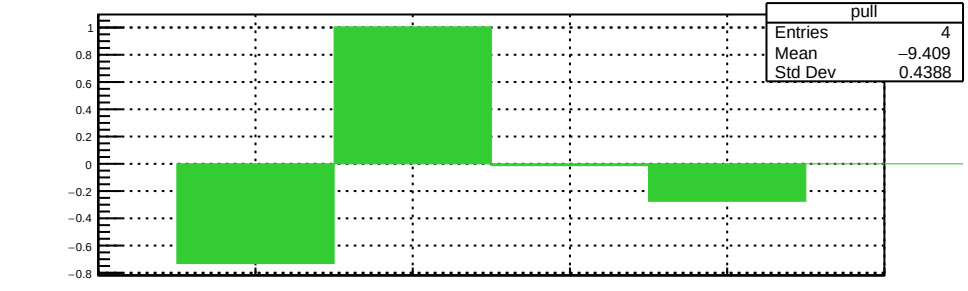

asym_sam_37_dd_rms vs run
χ² / ndf 202.9 / 3
p0 805.3 ± 2.986
880
860
840
820
800
780
760
6106. 0
6106. 1
6106. 2
6106. 3

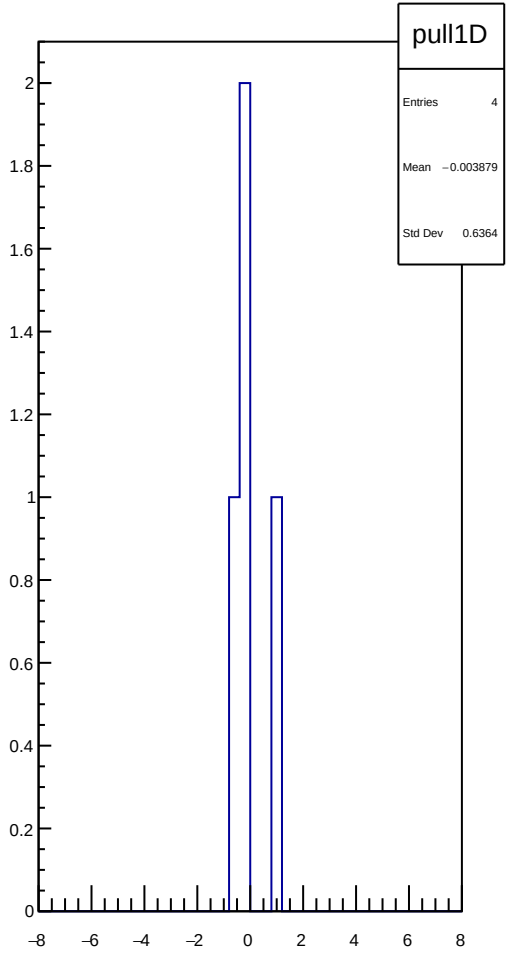

dit_asym_sam_48_dd_mean vs run
χ² / ndf 0.3916 / 3
p0 972.7 ± 707.9
3000
2500
2000
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −393.3
Std Dev 396.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

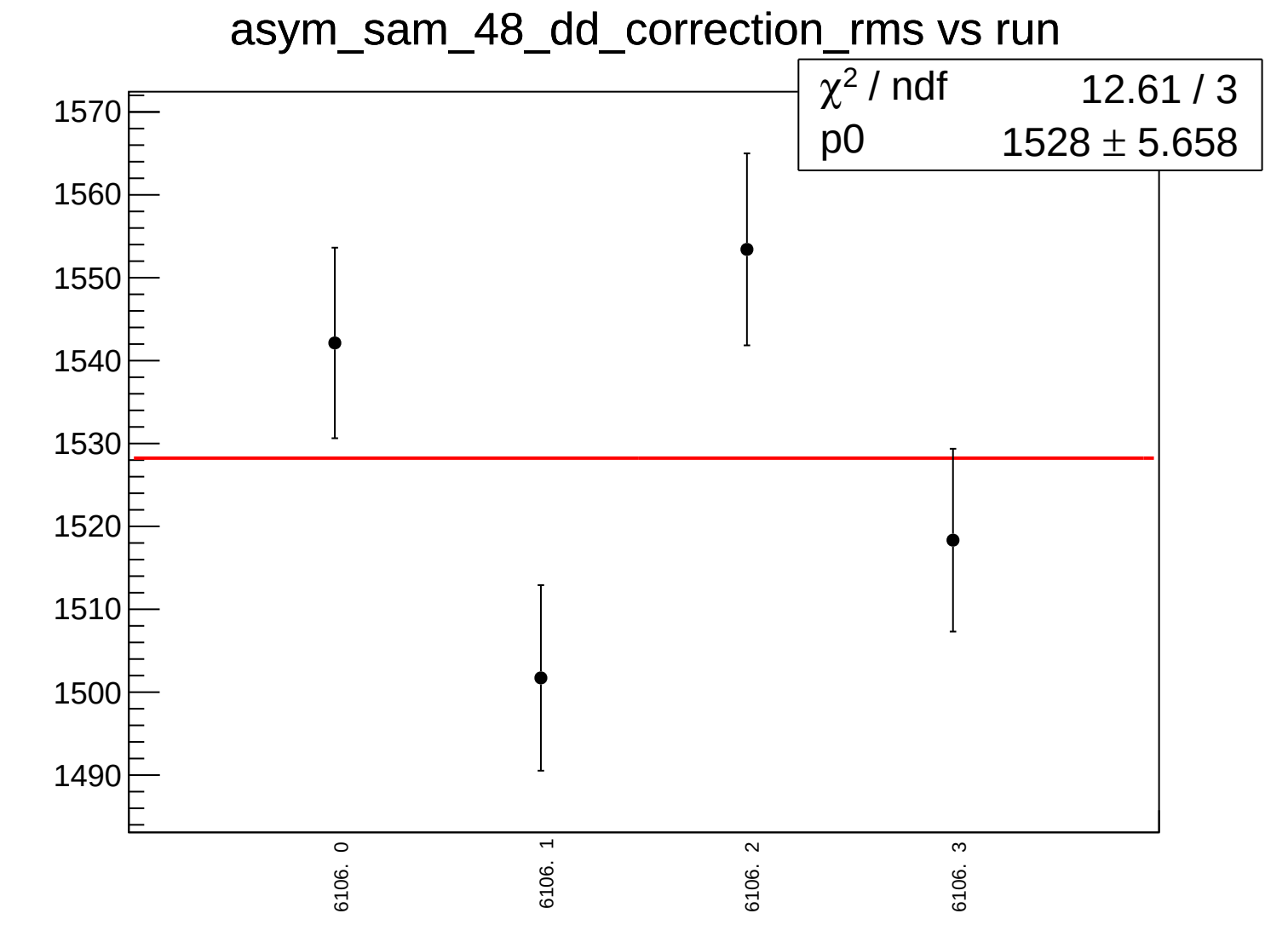

pull1D
Entries 4
Mean 0.0002474
Std Dev 0.3129
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

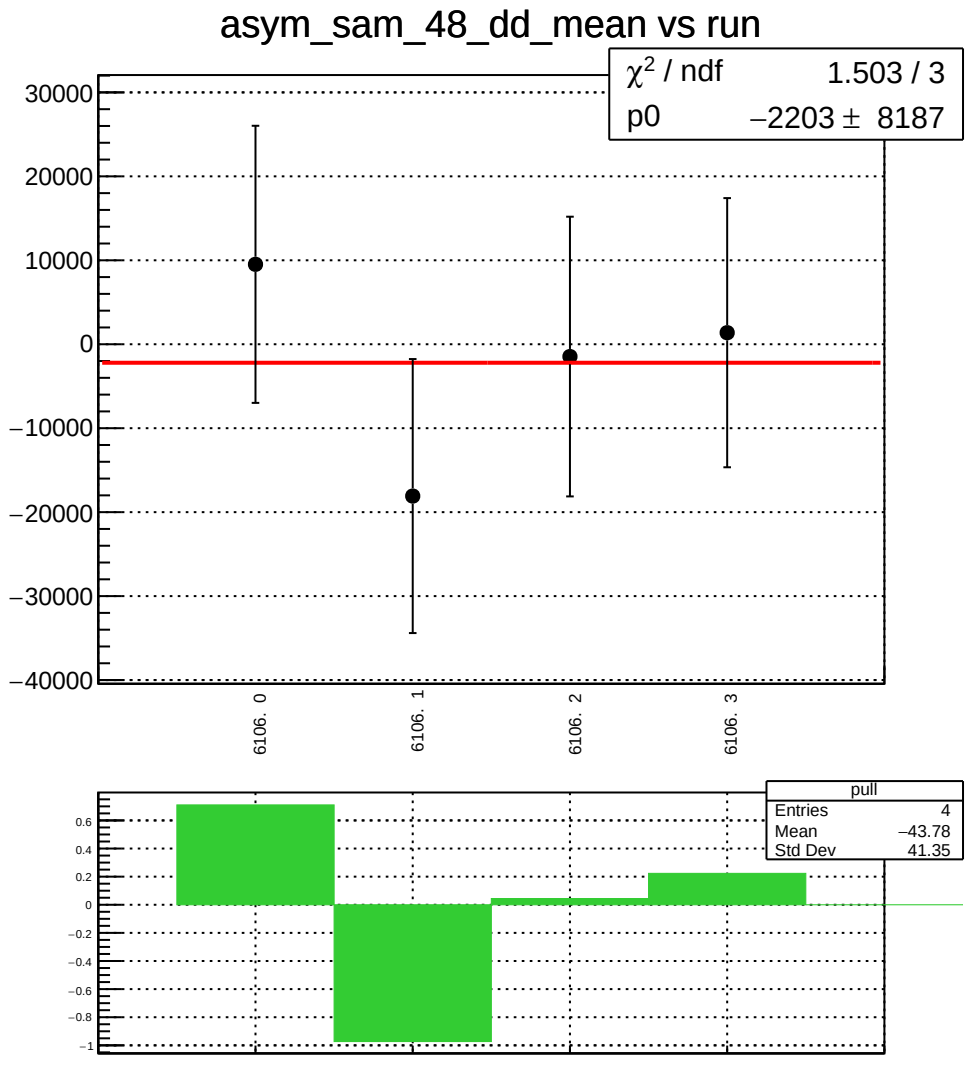

dit_asym_sam_48_dd_rms vs run
χ² / ndf 17.22 / 3
p0 135.2 ± 0.5006
139
138
137
136
135
134
133
132
131
6106. 0
6106. 1
6106. 2
6106. 3

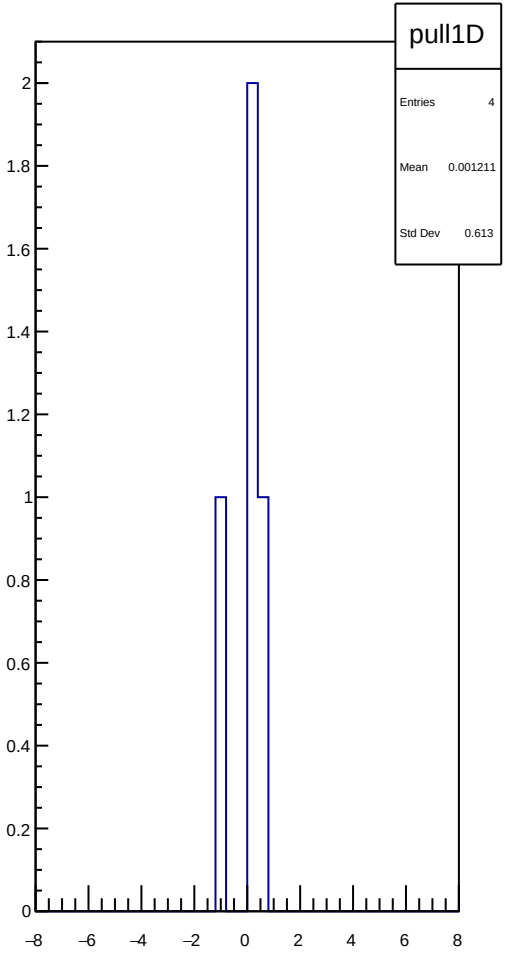

asym_sam_48_dd_correction_mean vs run
χ² / ndf 1.62 / 3
p0 3262 ± 8002
40000
30000
20000
10000
0
−10000
−20000
−30000
6106. 0
6106. 1
6106. 2
6106. 3

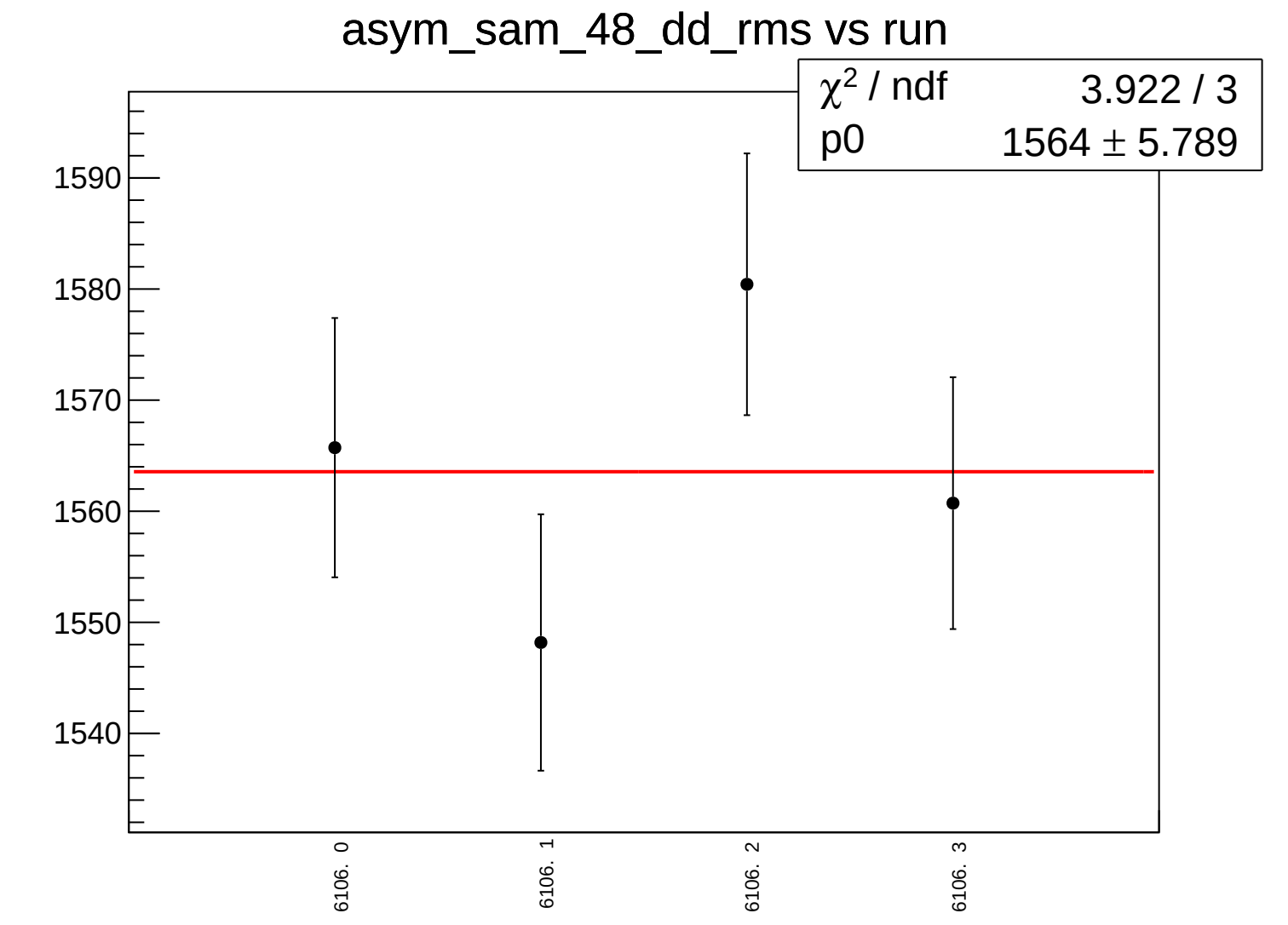

pull
Entries 4
Mean −9.409
Std Dev 0.4388
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

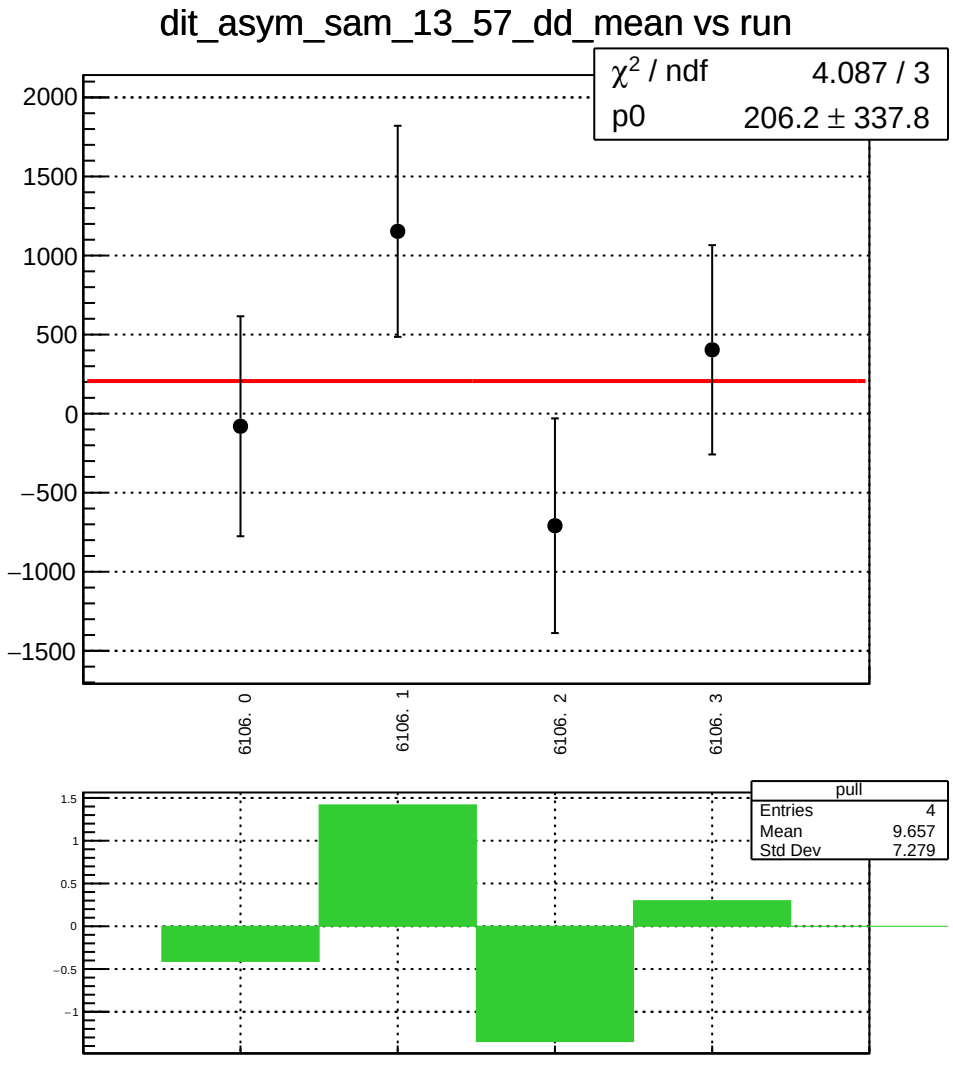

pull1D
Entries 4
Mean −0.003879
Std Dev 0.6364
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

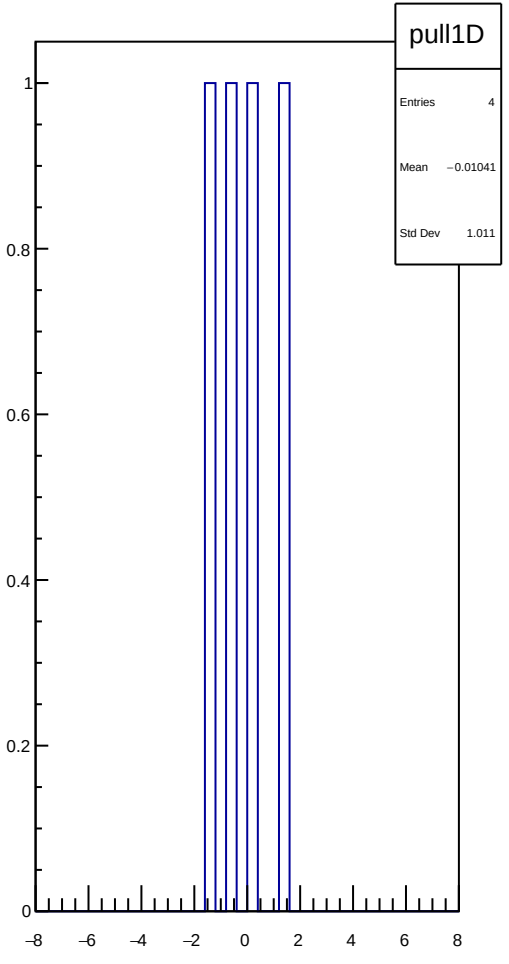

asym_sam_48_dd_correction_rms vs run
χ² / ndf 12.61 / 3
p0 1528 ± 5.658
1570
1560
1550
1540
1530
1520
1510
1500
1490
6106. 0
6106. 1
6106. 2
6106. 3

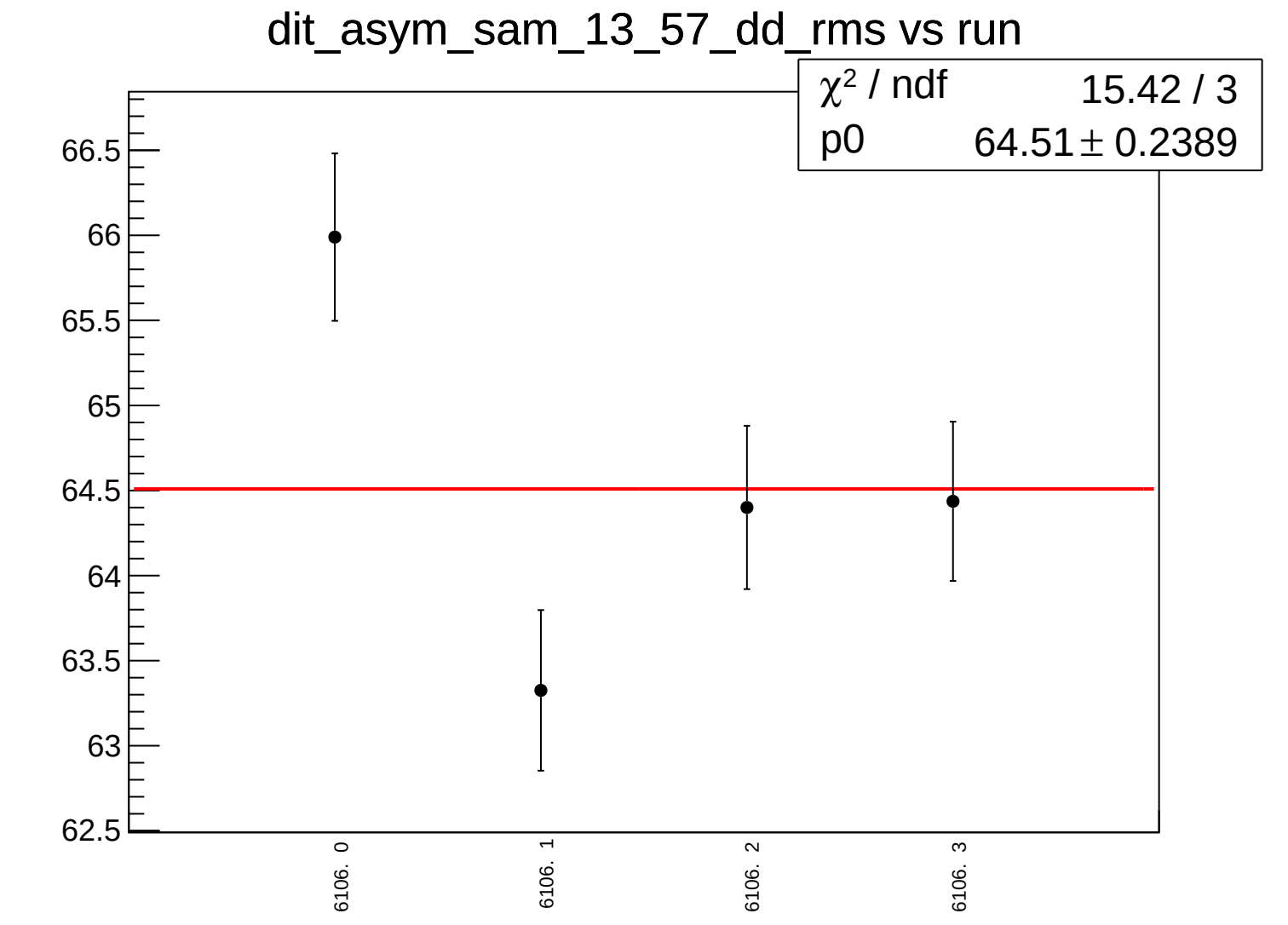

asym_sam_48_dd_mean vs run
χ² / ndf 1.503 / 3
p0 −2203 ± 8187
30000
20000
10000
0
−10000
−20000
−30000
−40000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −43.78
Std Dev 41.35
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

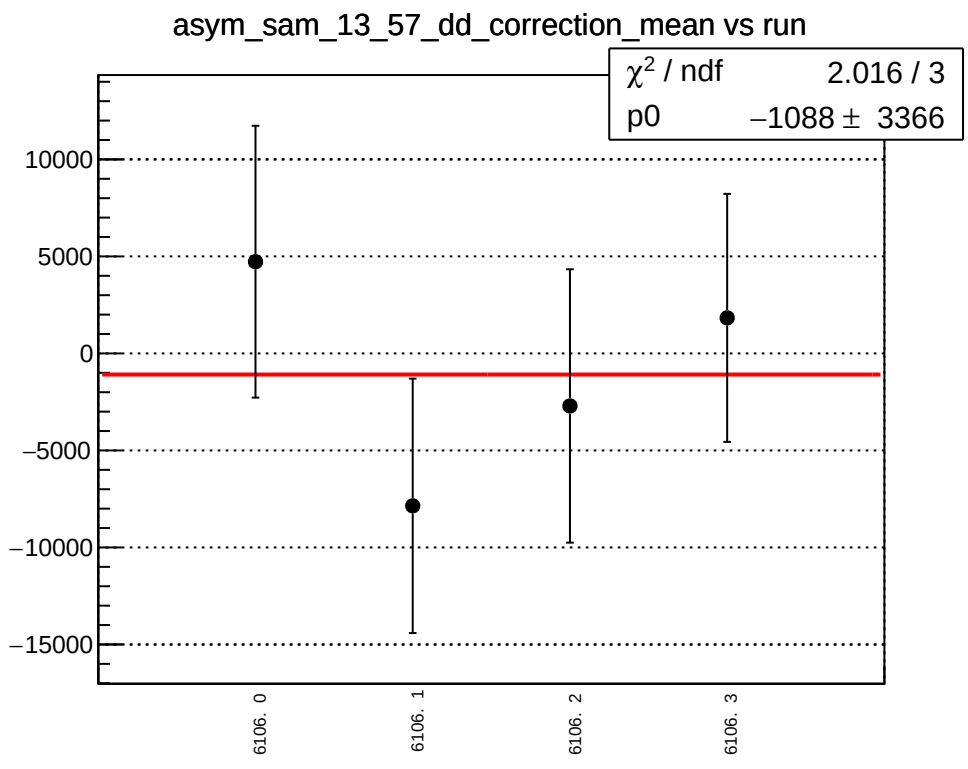

pull1D
Entries 4
Mean 0.001211
Std Dev 0.613
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

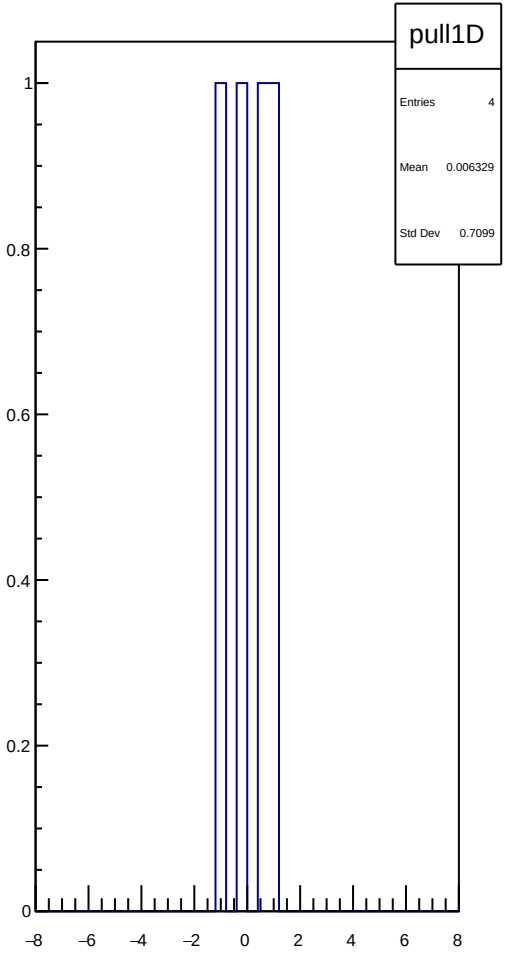

asym_sam_48_dd_rms vs run
χ² / ndf 3.922 / 3
p0 1564 ± 5.789
1590
1580
1570
1560
1550
1540
6106. 0
6106. 1
6106. 2
6106. 3

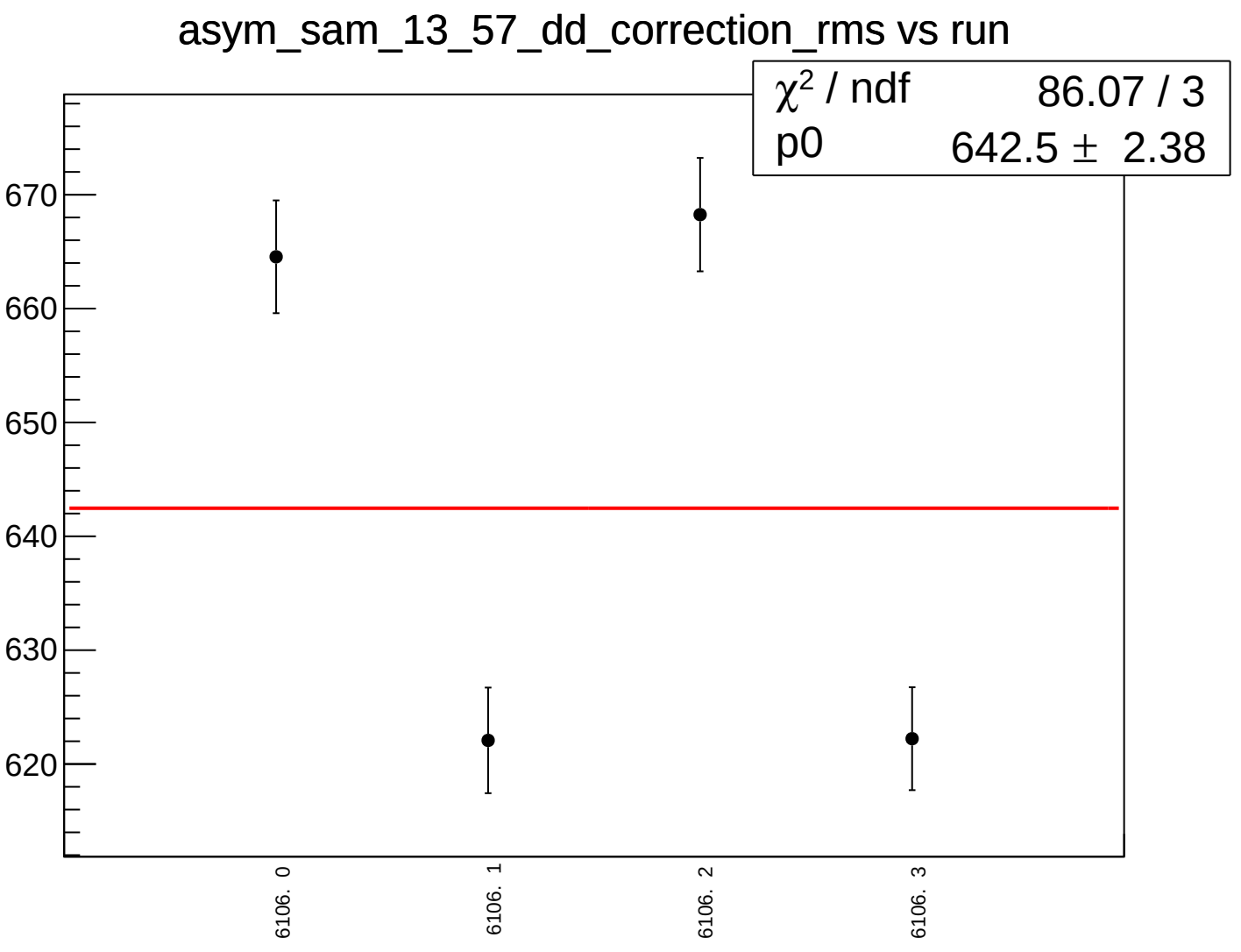

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 4.087 / 3
p0 206.2 ± 337.8
2000
1500
1000
500
0
−500
−1000
−1500
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 9.657
Std Dev 7.279
1.5
1
0.5
0
−0.5
−1

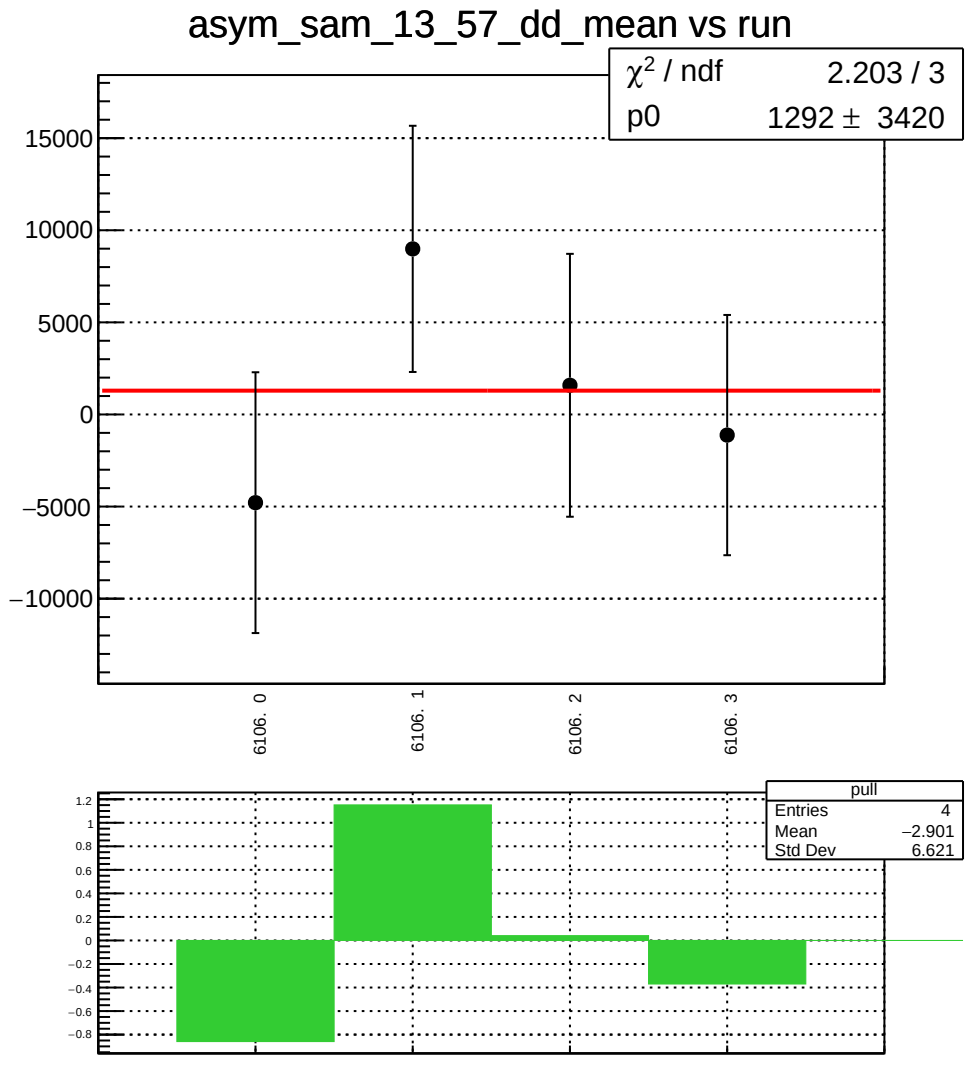

pull1D
Entries 4
Mean −0.01041
Std Dev 1.011
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

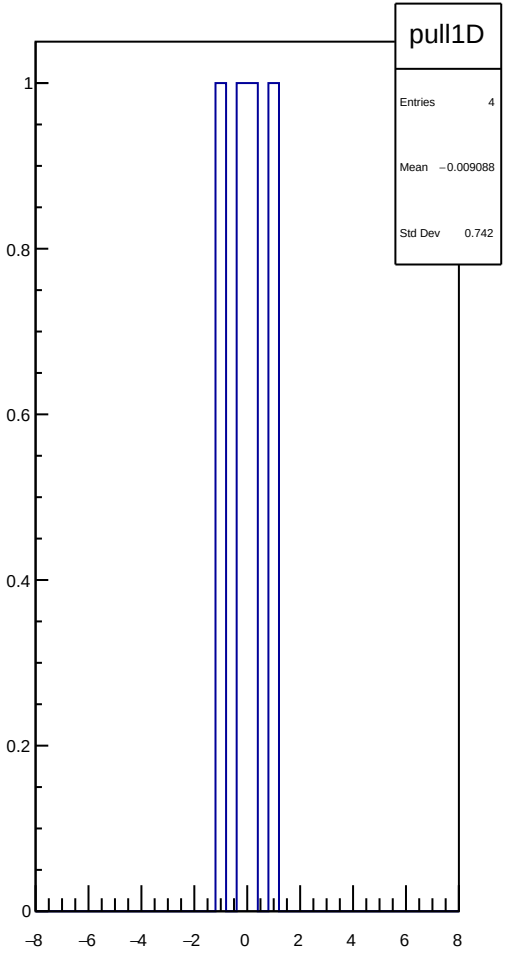

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 15.42 / 3
p0 64.51 ± 0.2389
66.5
66
65.5
65
64.5
64
63.5
63
62.5
6106. 0
6106. 1
6106. 2
6106. 3

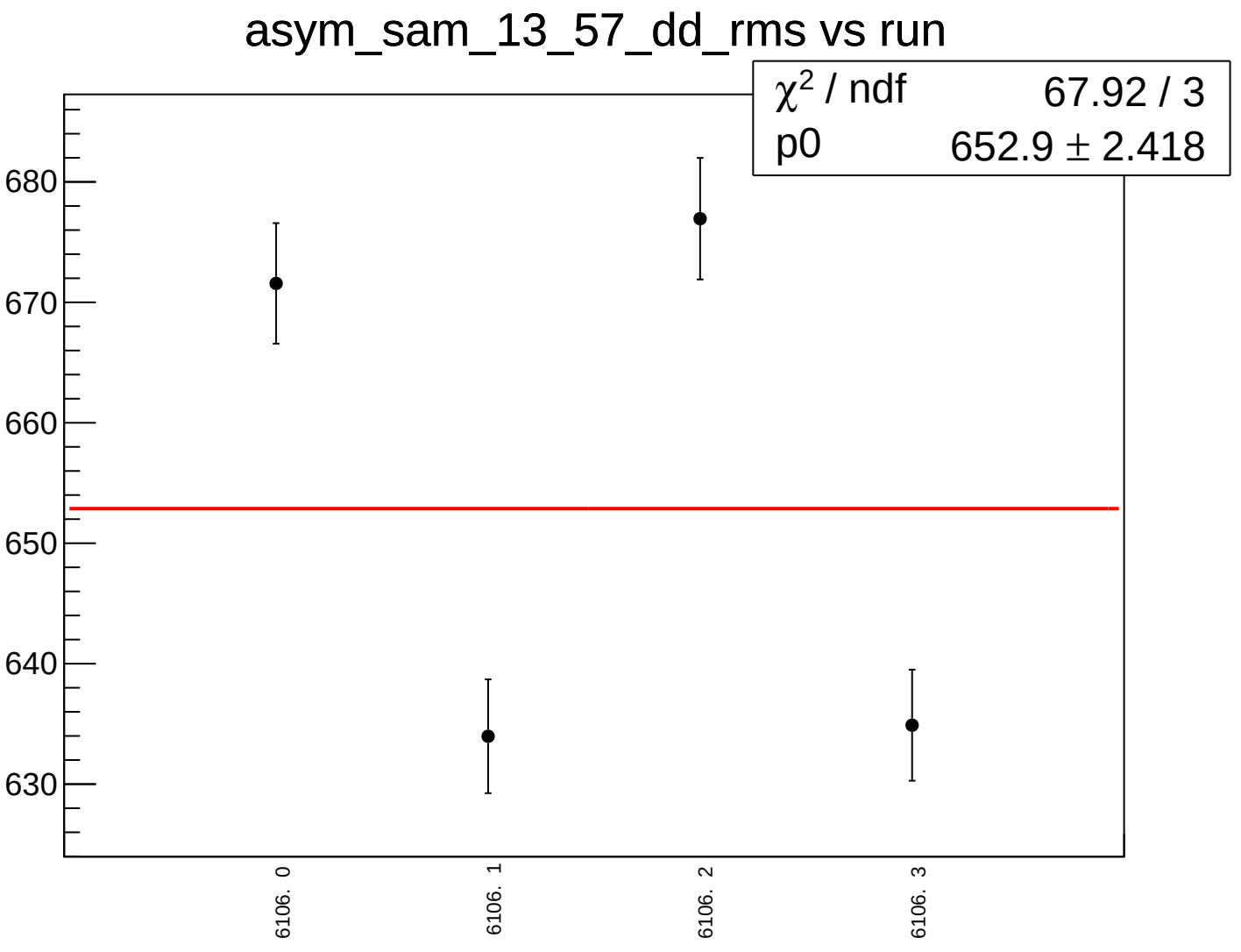

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 2.016 / 3
p0 −1088 ± 3366
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.279
Std Dev 7.906
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

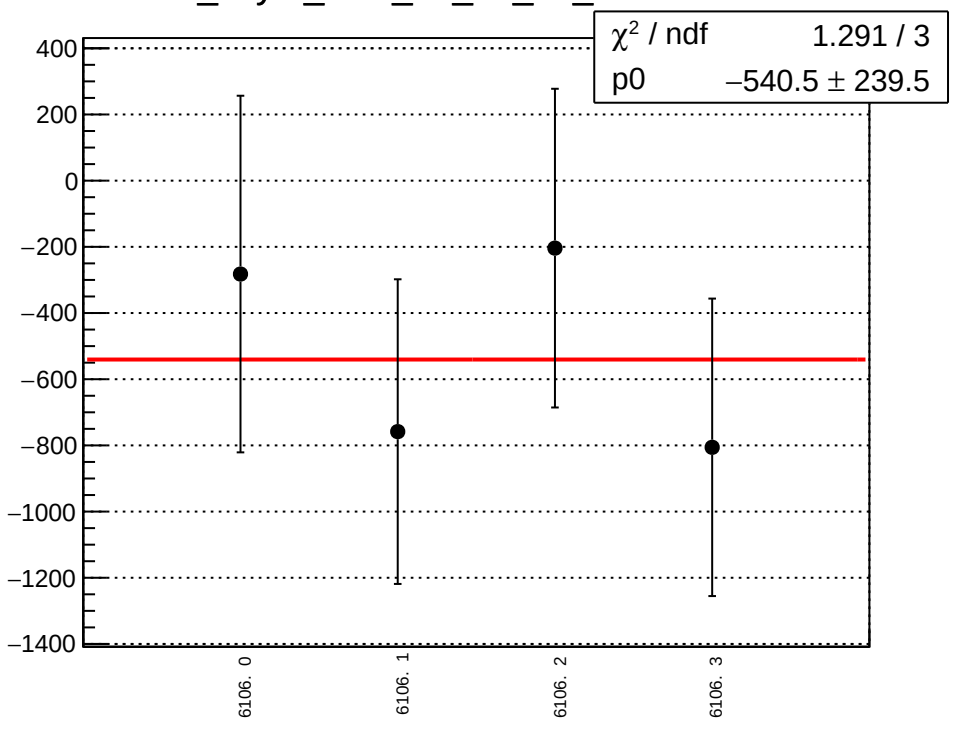

pull1D
Entries 4
Mean 0.006329
Std Dev 0.7099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

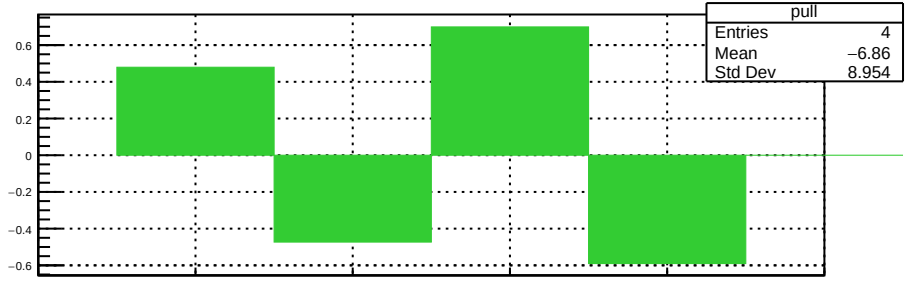

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 86.07 / 3
p0 642.5 ± 2.38
670
660
650
640
630
620
6106. 0
6106. 1
6106. 2
6106. 3

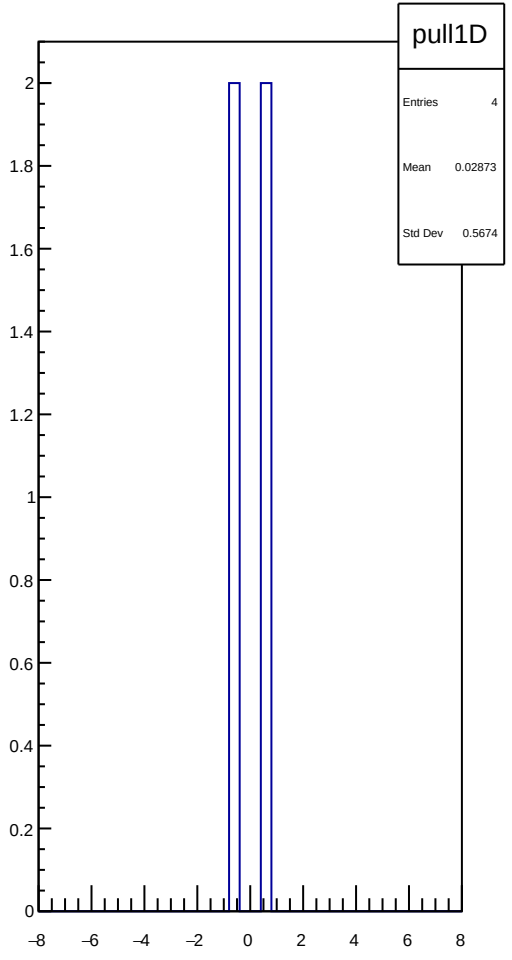

asym_sam_13_57_dd_mean vs run
χ² / ndf 2.203 / 3
p0 1292 ± 3420
15000
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.901
Std Dev 6.621
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

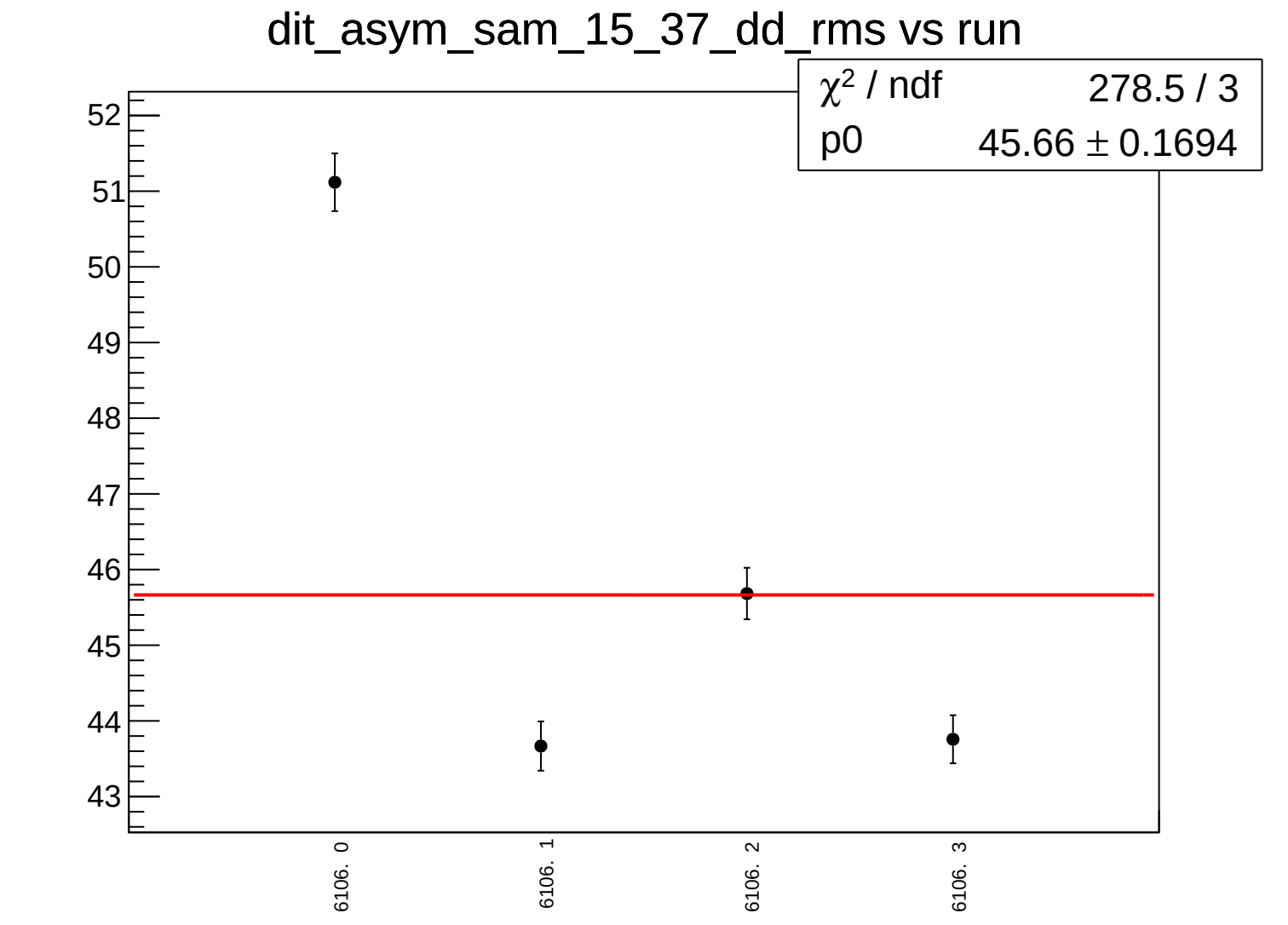

pull1D
Entries 4
Mean −0.009088
Std Dev 0.742
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

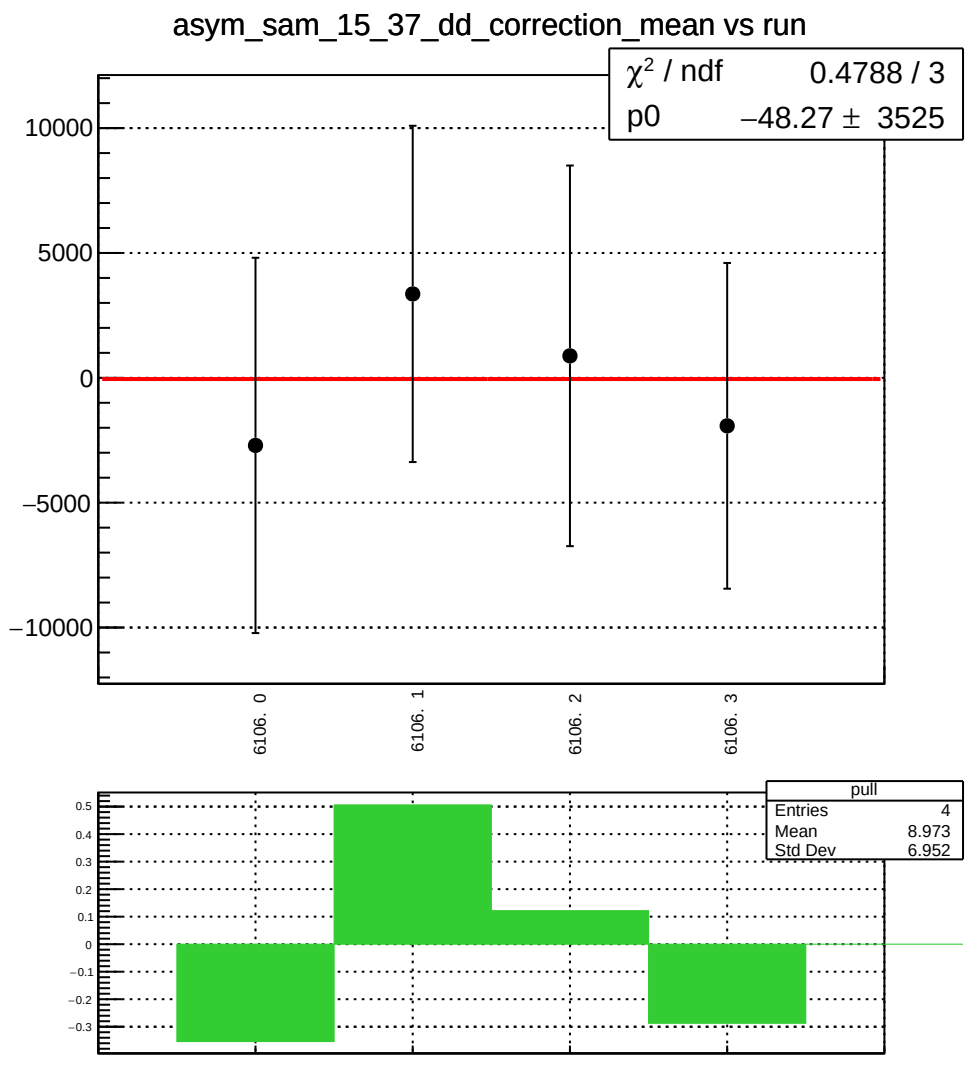

asym_sam_13_57_dd_rms vs run
χ² / ndf 67.92 / 3
p0 652.9 ± 2.418
680
670
660
650
640
630
6106. 0
6106. 1
6106. 2
6106. 3

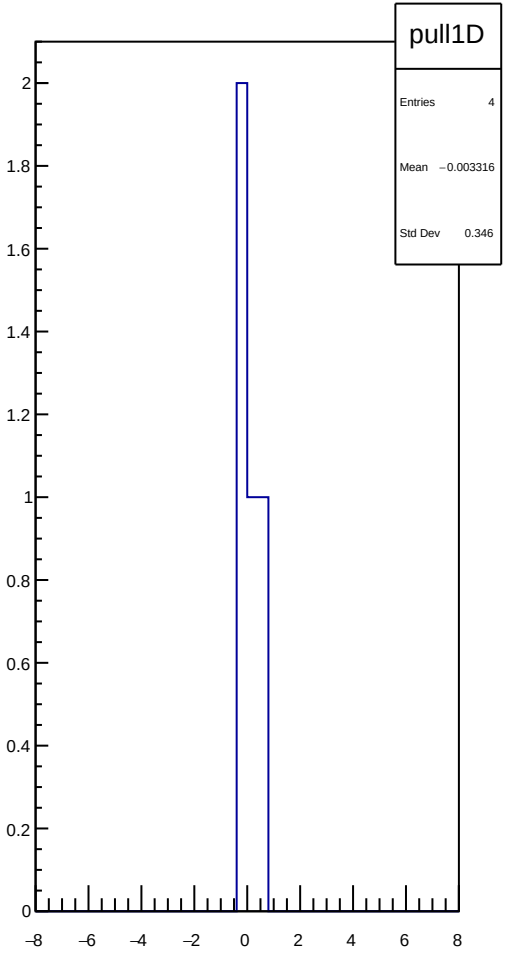

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 1.291 / 3
p0 −540.5 ± 239.5
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
6106. 0
6106. 1
6106. 2
6106. 3

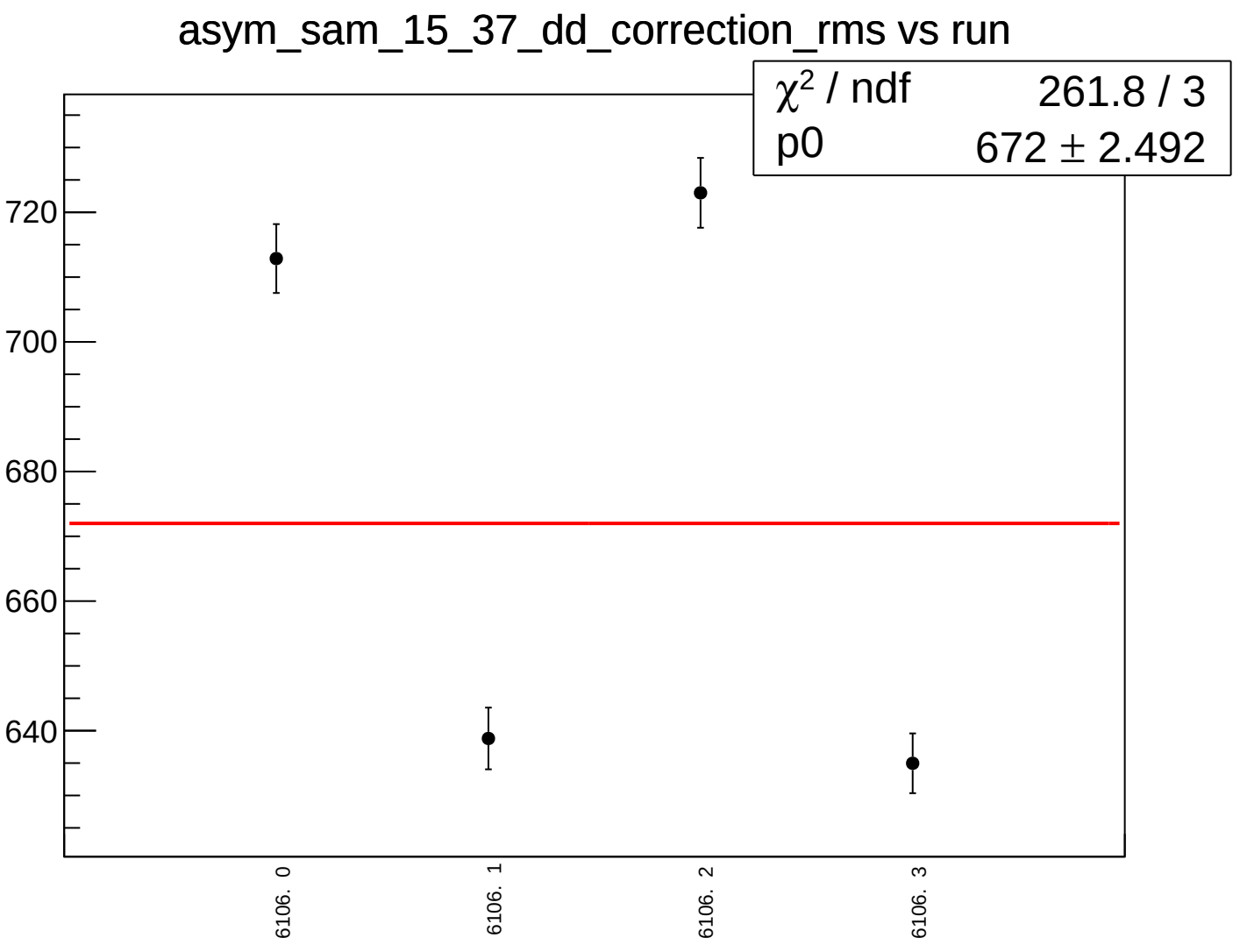

pull
Entries 4
Mean −6.86
Std Dev 8.954
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

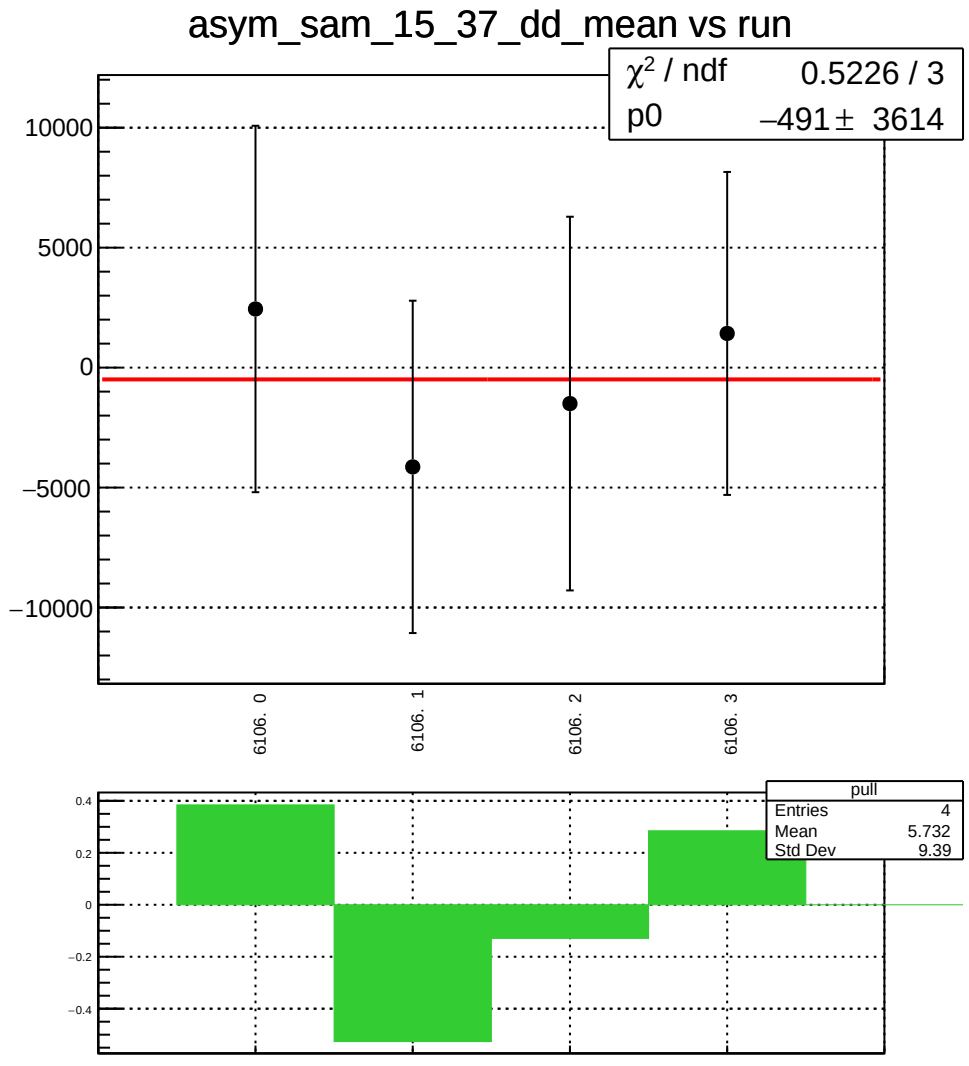

pull1D
Entries 4
Mean 0.02873
Std Dev 0.5674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

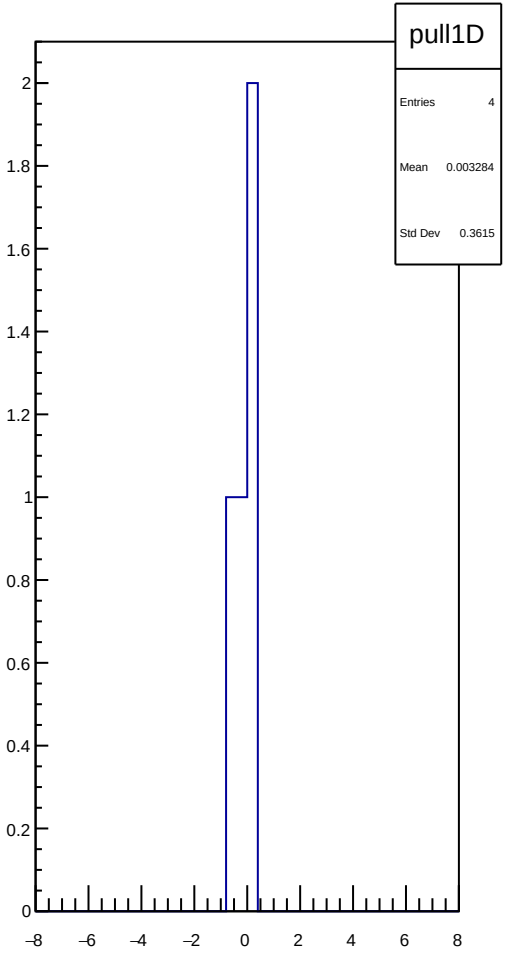

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 278.5 / 3
p0 45.66 ± 0.1694
52
51
50
49
48
47
46
45
44
43
6106. 0
6106. 1
6106. 2
6106. 3

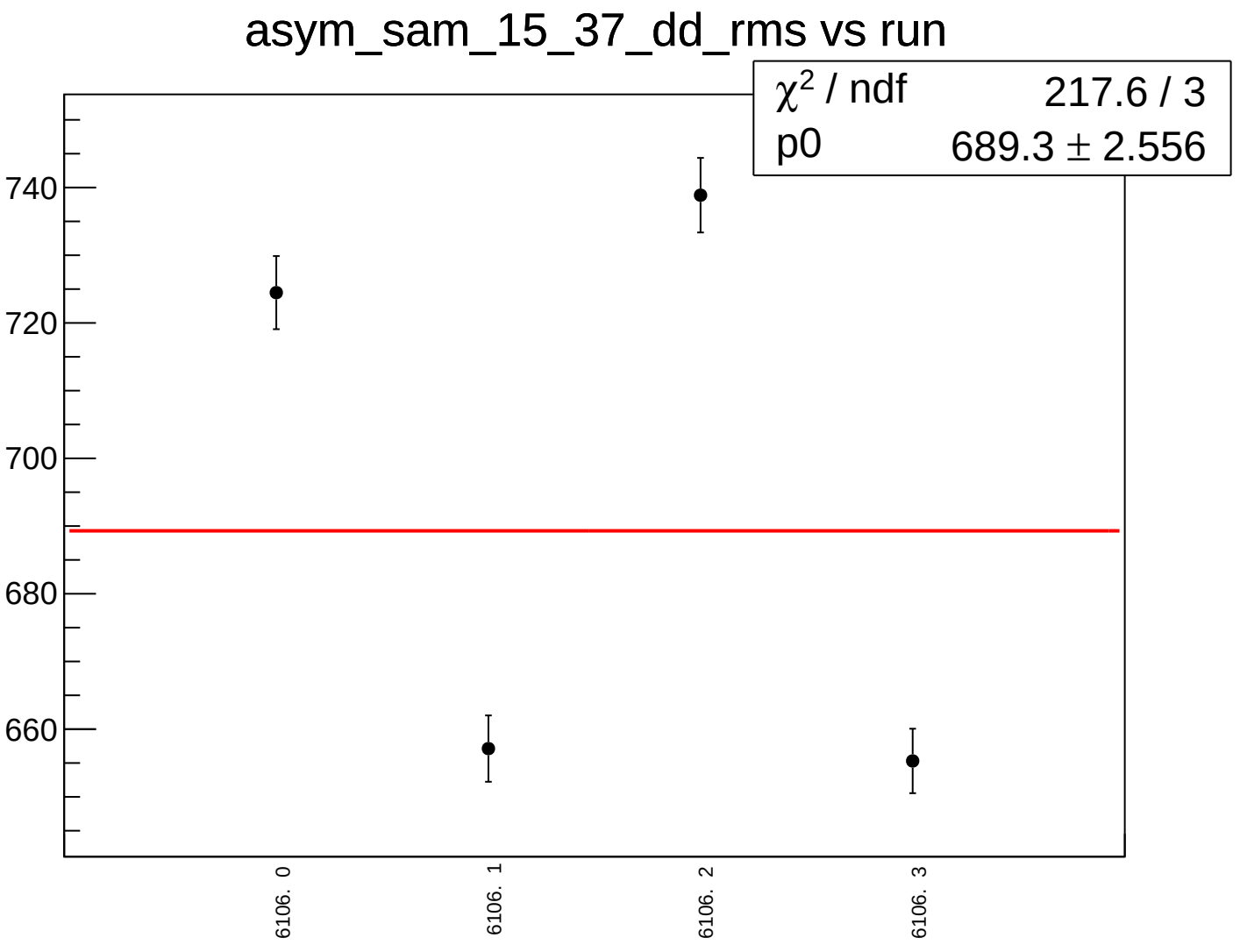

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 0.4788 / 3
p0 −48.27 ± 3525
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 8.973
Std Dev 6.952
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

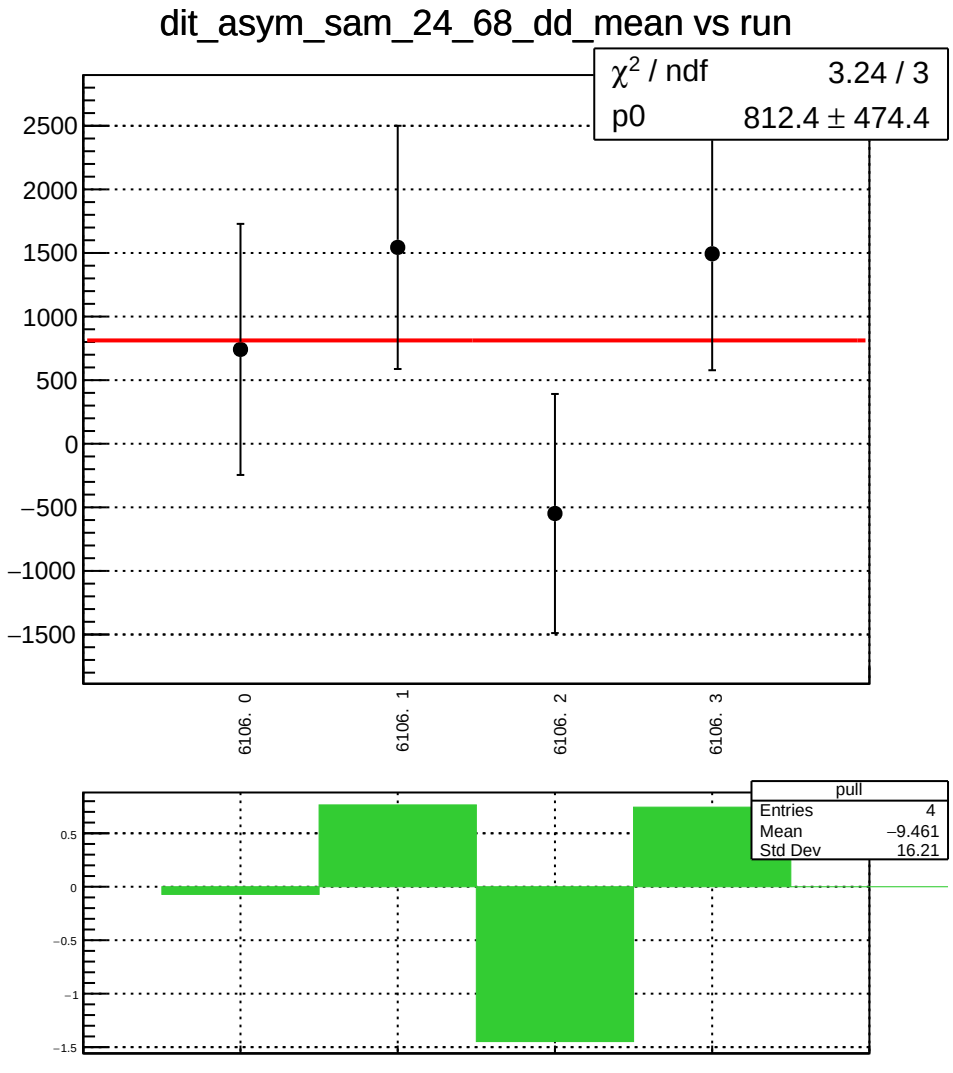

pull1D
Entries 4
Mean −0.003316
Std Dev 0.346
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

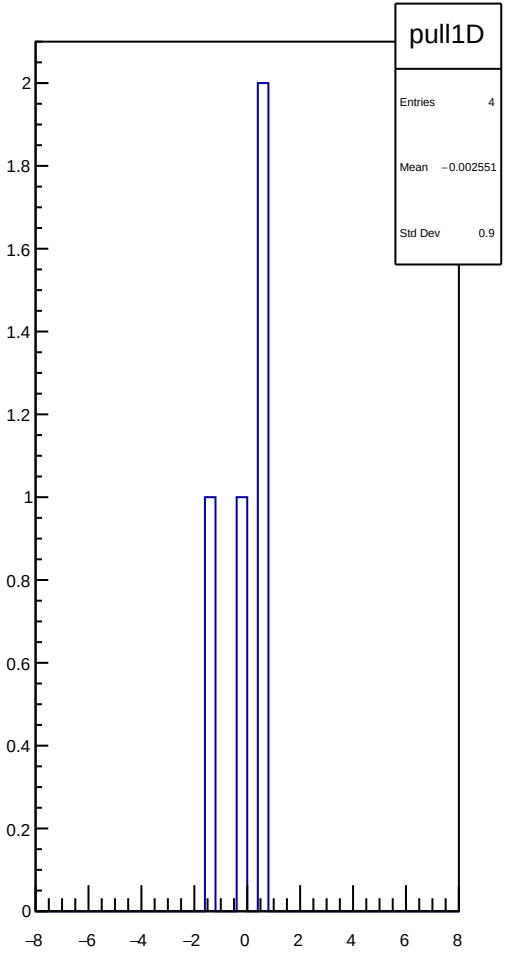

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 261.8 / 3
p0 672 ± 2.492
720
700
680
660
640
6106. 0
6106. 1
6106. 2
6106. 3

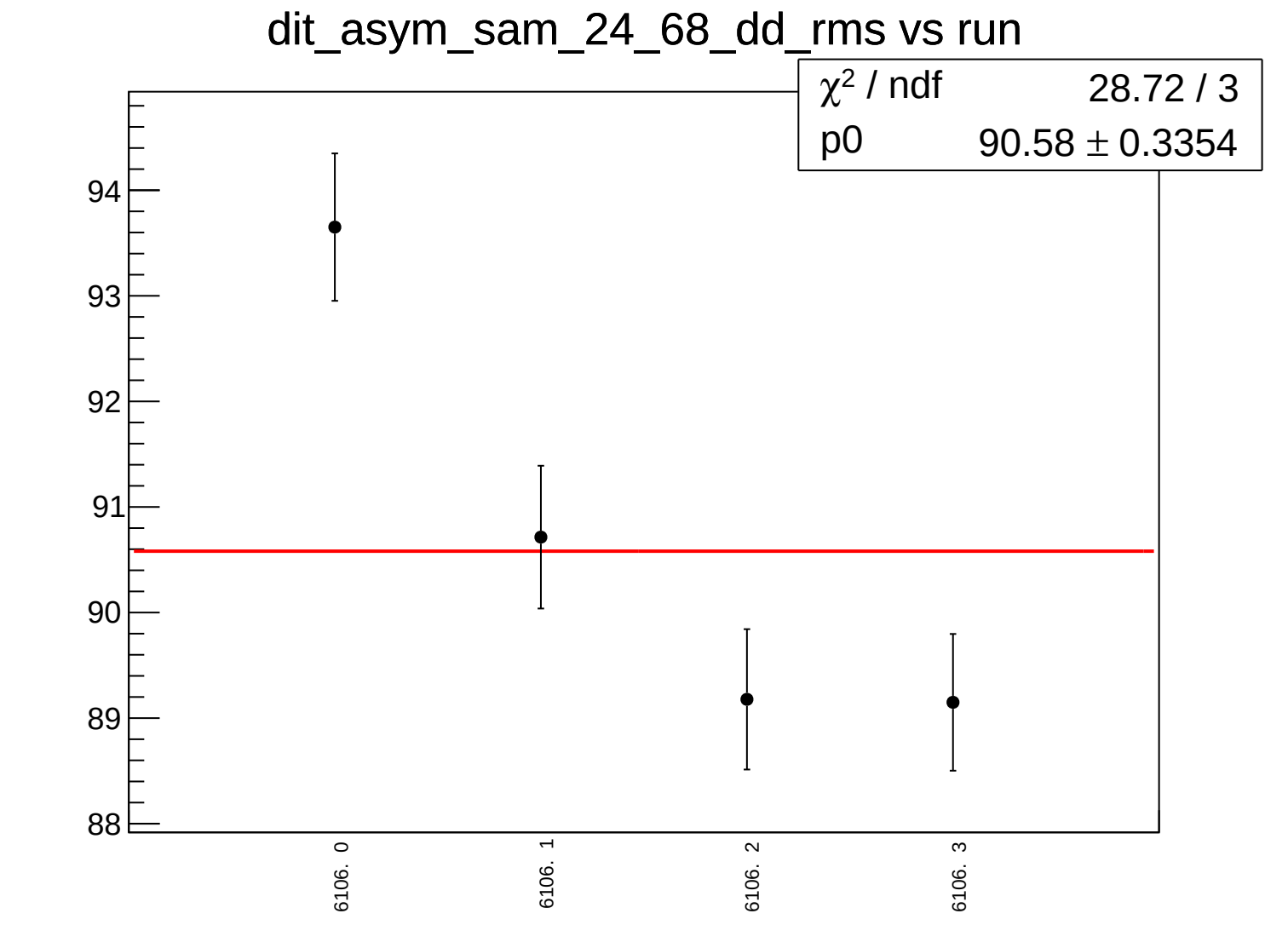

asym_sam_15_37_dd_mean vs run
χ² / ndf 0.5226 / 3
p0 −491 ± 3614
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 5.732
Std Dev 9.39
0.4
0.2
0
−0.2
−0.4

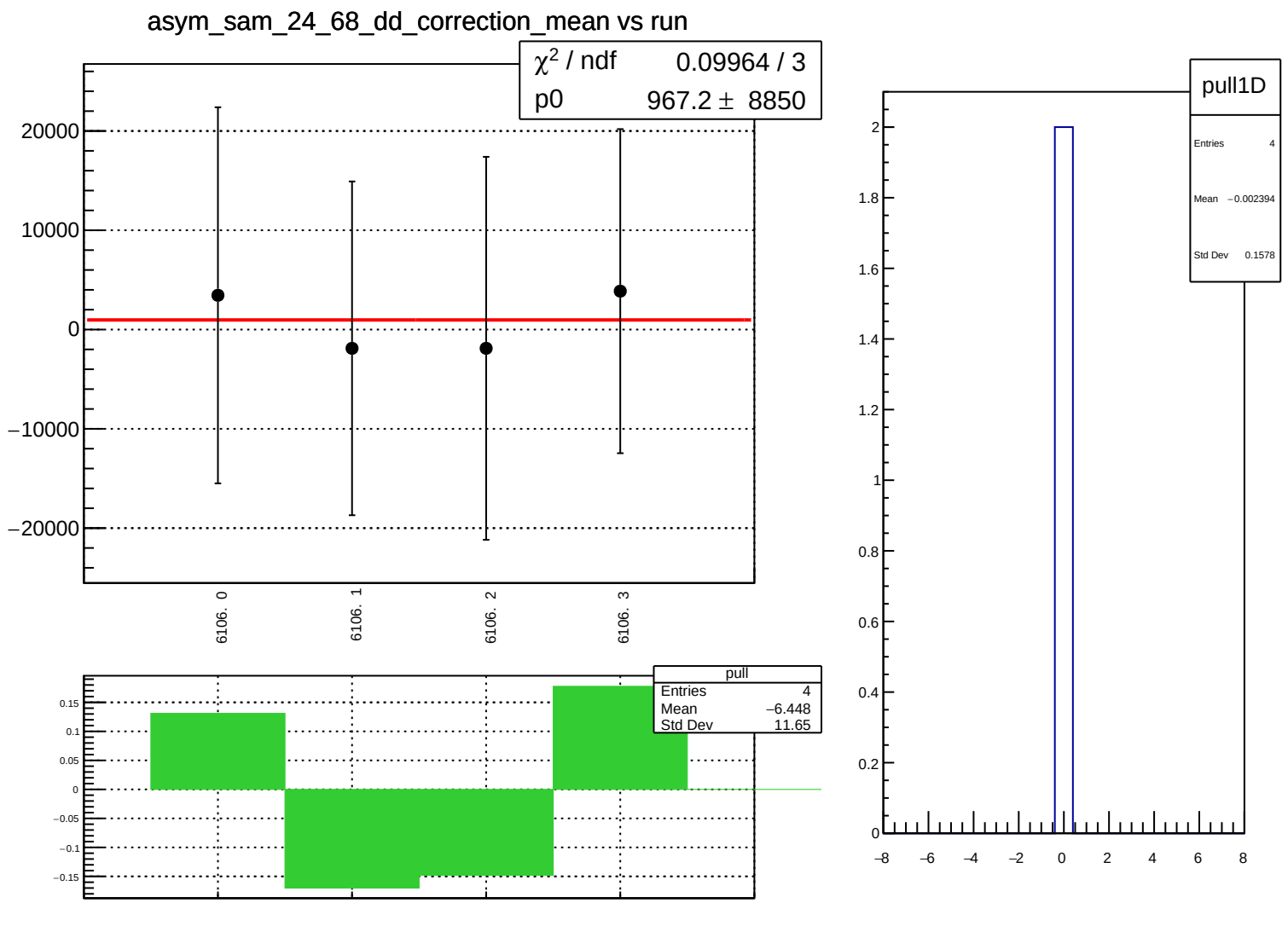

pull1D
Entries 4
Mean 0.003284
Std Dev 0.3615
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

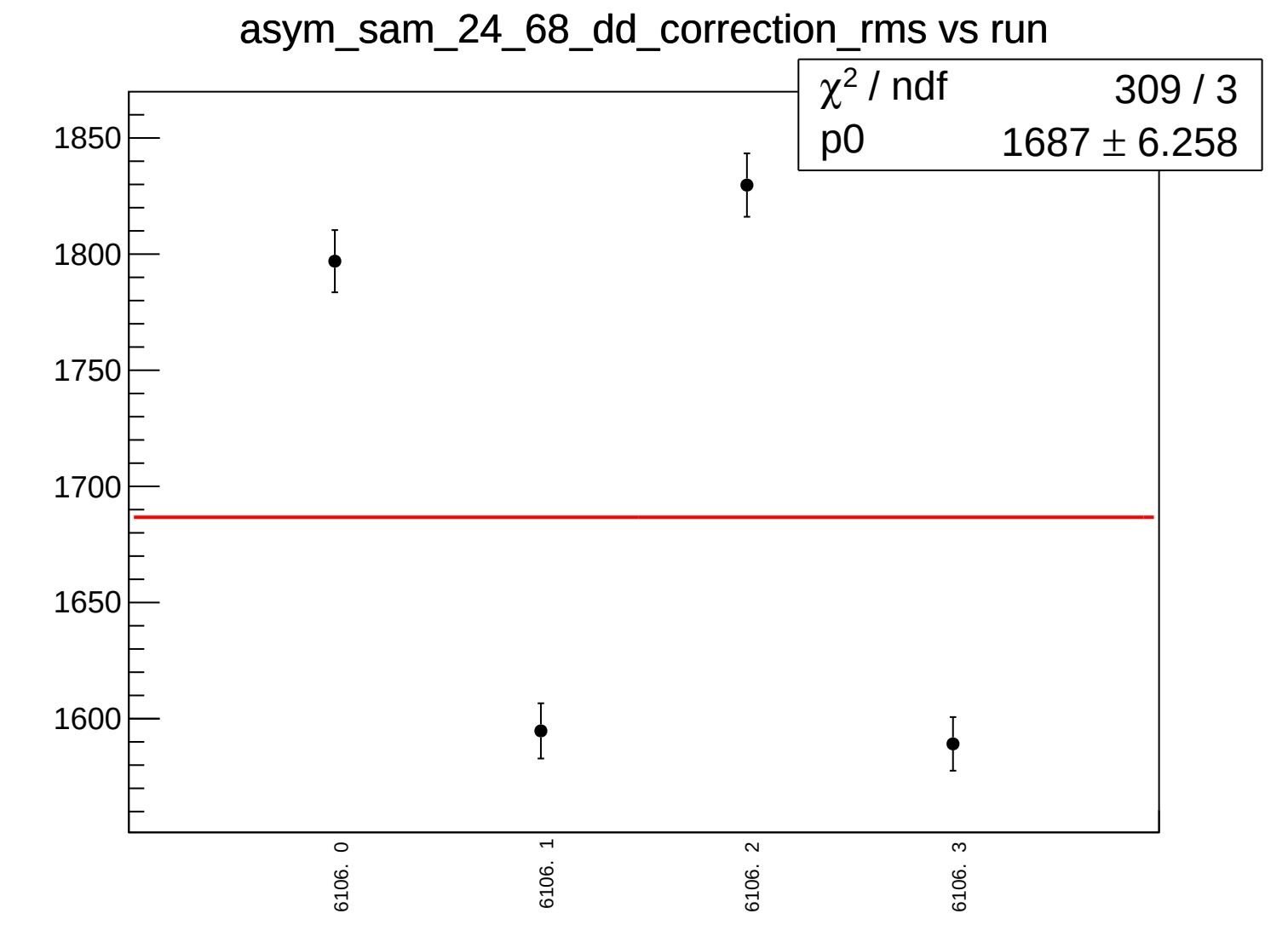

asym_sam_15_37_dd_rms vs run
χ² / ndf 217.6 / 3
p0 689.3 ± 2.556
740
720
700
680
660
6106. 0
6106. 1
6106. 2
6106. 3

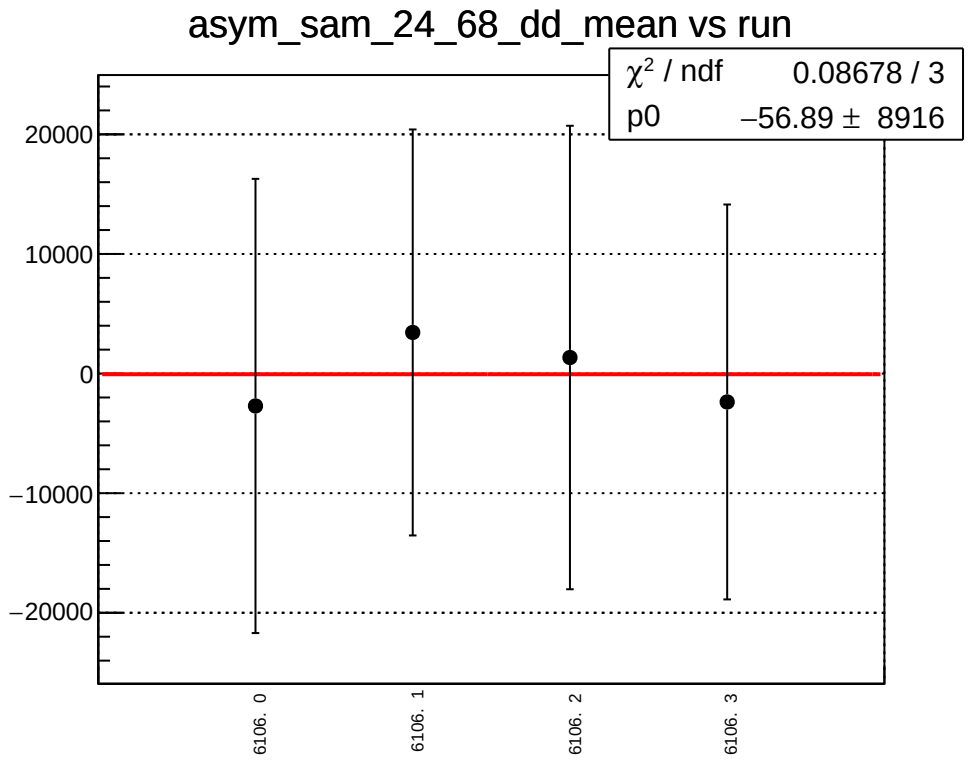

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 3.24 / 3
p0 812.4 ± 474.4
2500
2000
1500
1000
500
0
−500
−1000
−1500
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −9.461
Std Dev 16.21
0.5
0
−0.5
−1
−1.5

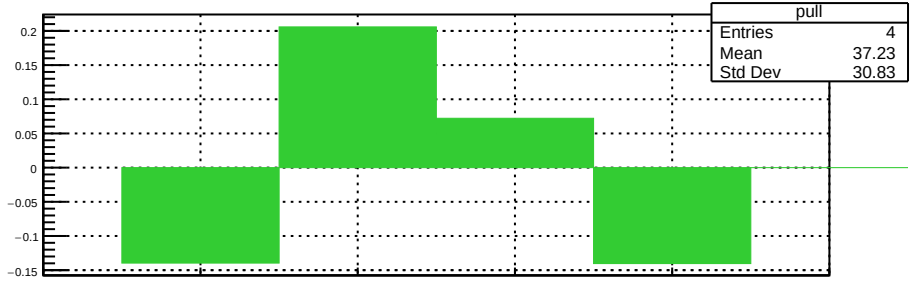

pull1D
Entries 4
Mean −0.002551
Std Dev 0.9
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

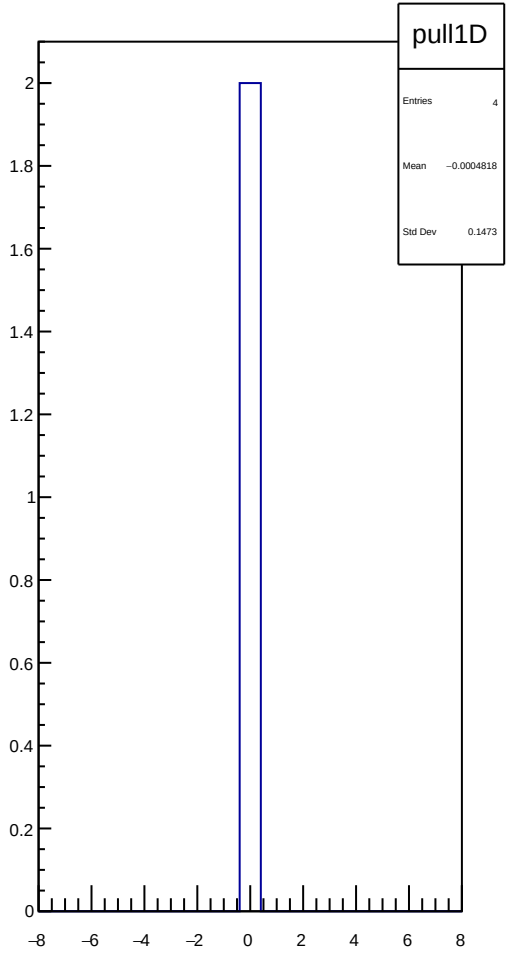

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 28.72 / 3
p0 90.58 ± 0.3354
94
93
92
91
90
89
88
6106. 0
6106. 1
6106. 2
6106. 3

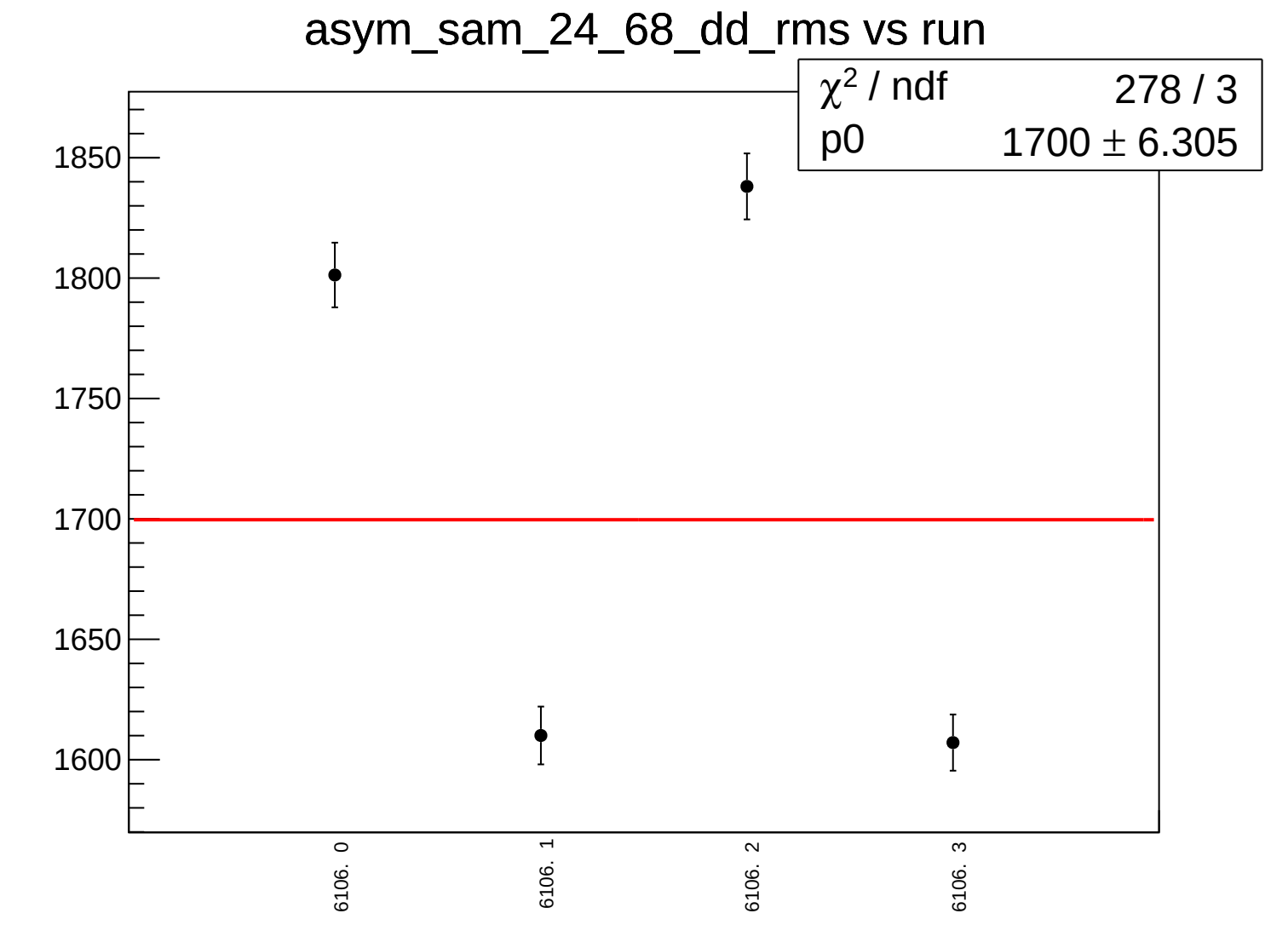

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 0.09964 / 3
p0 967.2 ± 8850
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −6.448
Std Dev 11.65
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean −0.002394
Std Dev 0.1578
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

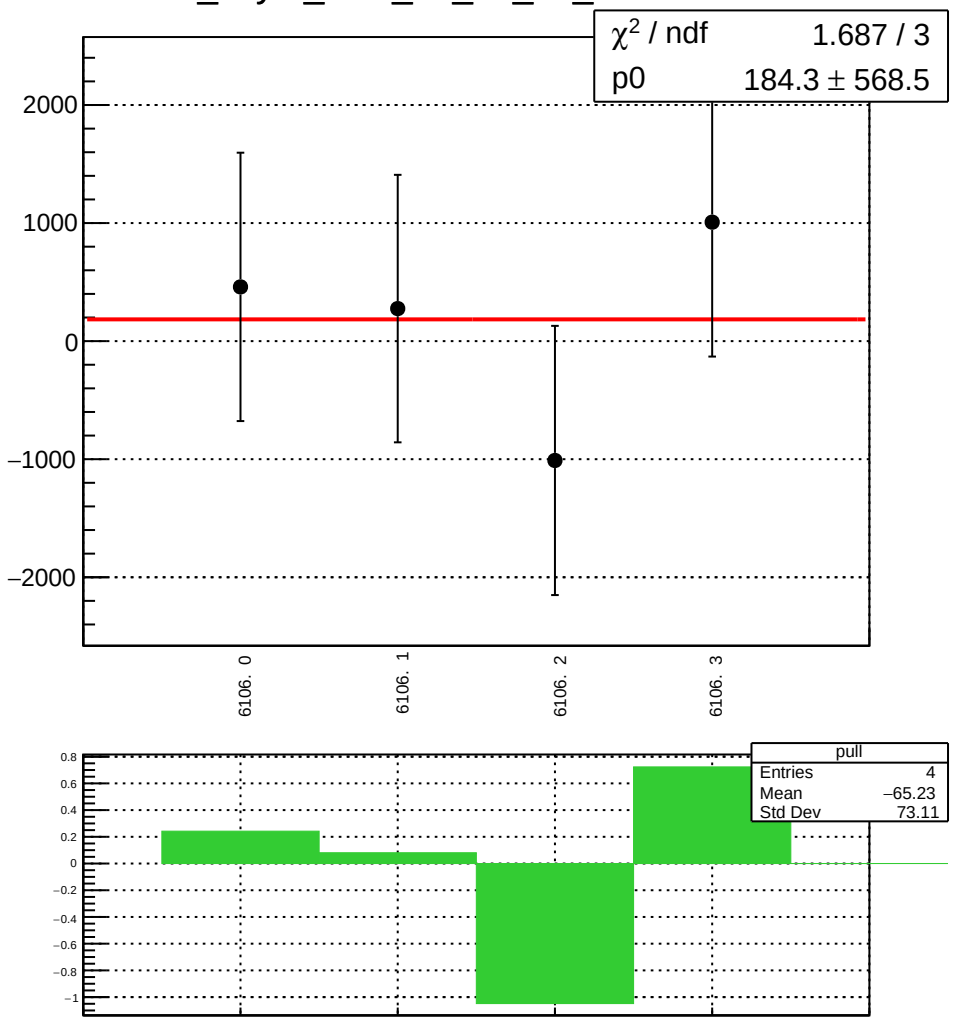

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 309 / 3
p0 1687 ± 6.258
1850
1800
1750
1700
1650
1600
6106. 0
6106. 1
6106. 2
6106. 3

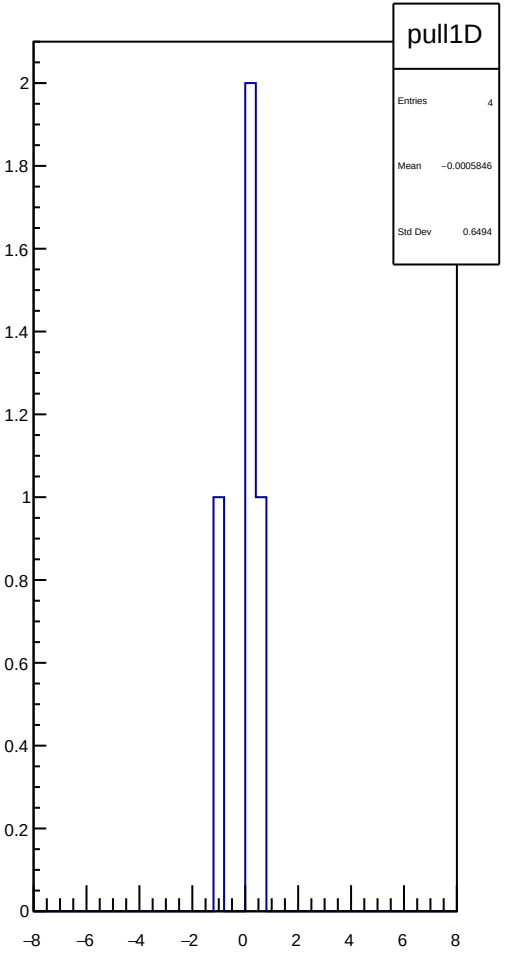

asym_sam_24_68_dd_mean vs run
χ² / ndf 0.08678 / 3
p0 −56.89 ± 8916
20000
10000
0
−10000
−20000
6106. 0
6106. 1
6106. 2
6106. 3

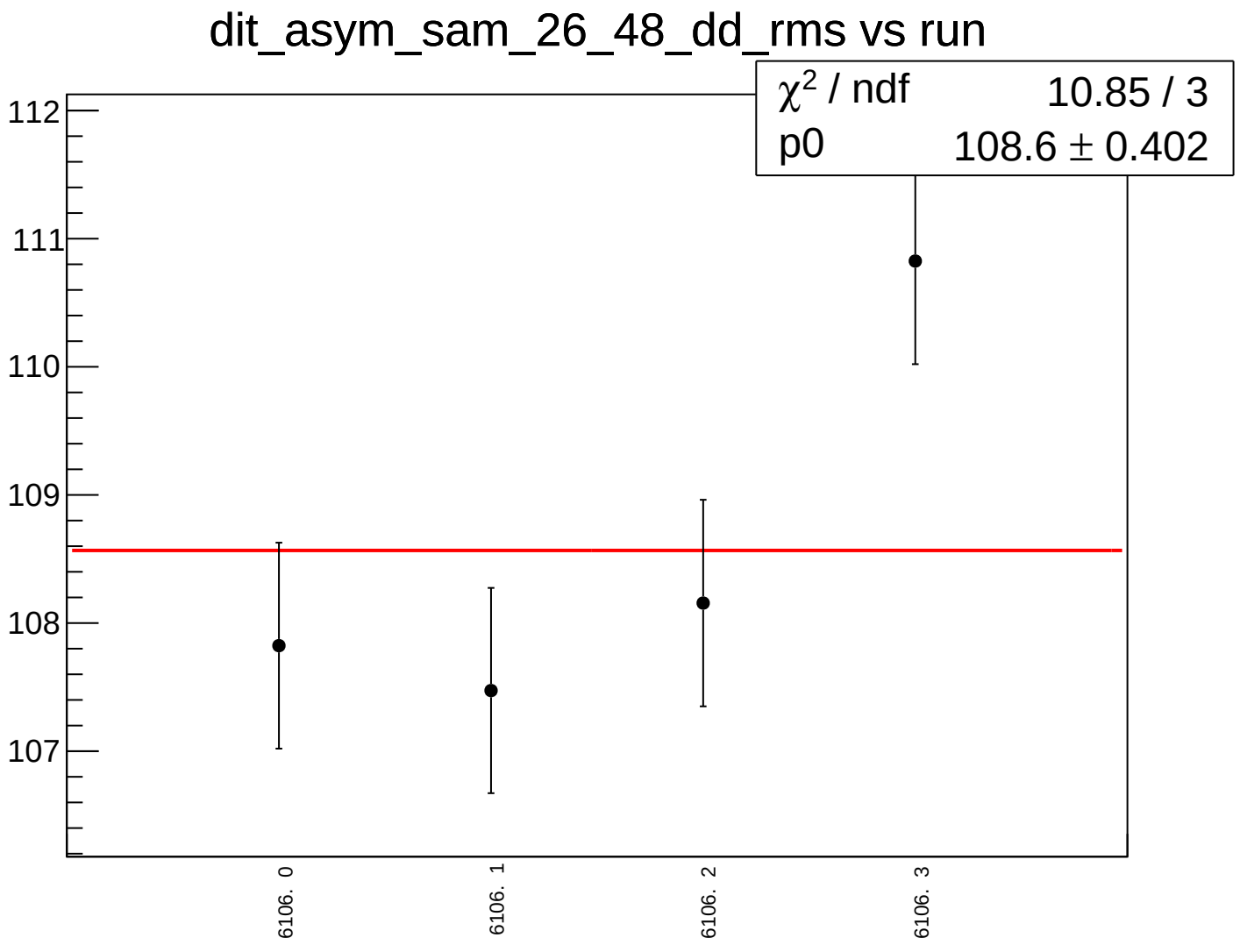

pull
Entries 4
Mean 37.23
Std Dev 30.83
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

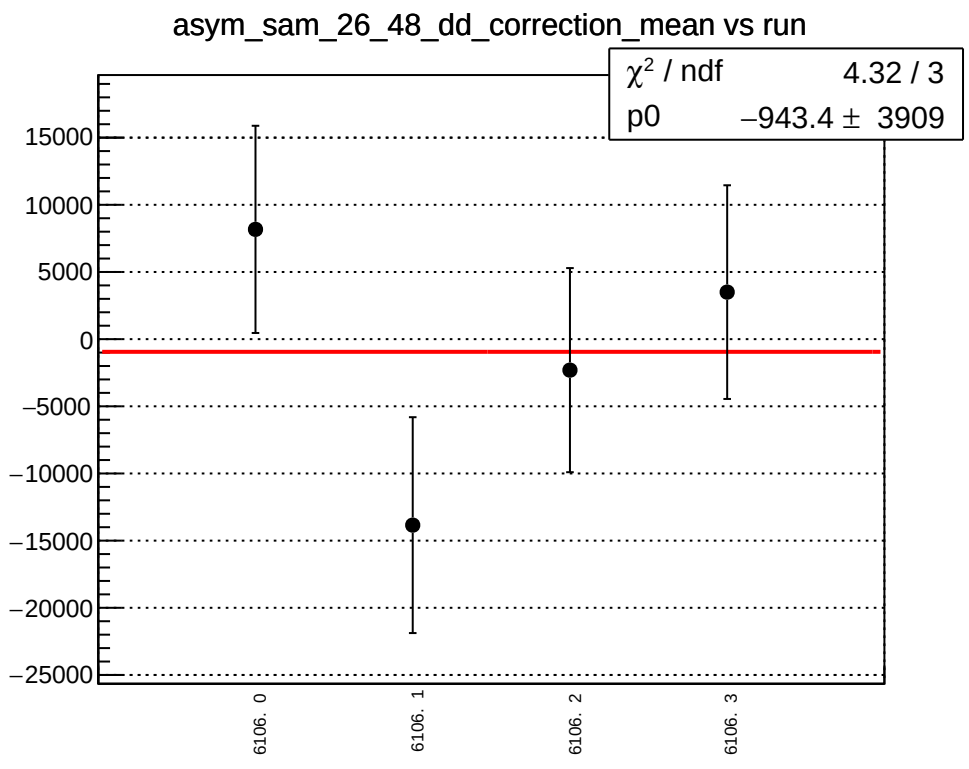

pull1D
Entries 4
Mean −0.0004818
Std Dev 0.1473
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

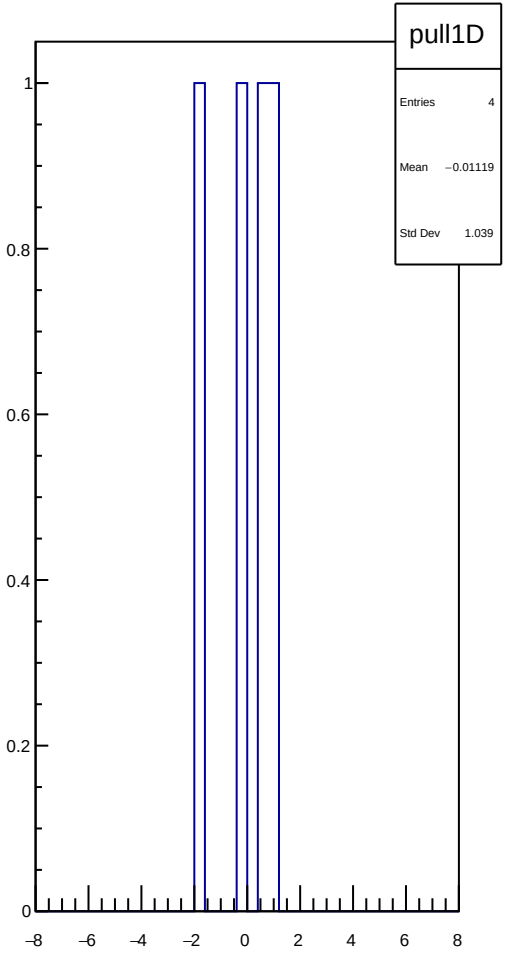

asym_sam_24_68_dd_rms vs run
χ² / ndf 278 / 3
p0 1700 ± 6.305
1850
1800
1750
1700
1650
1600
6106. 0
6106. 1
6106. 2
6106. 3

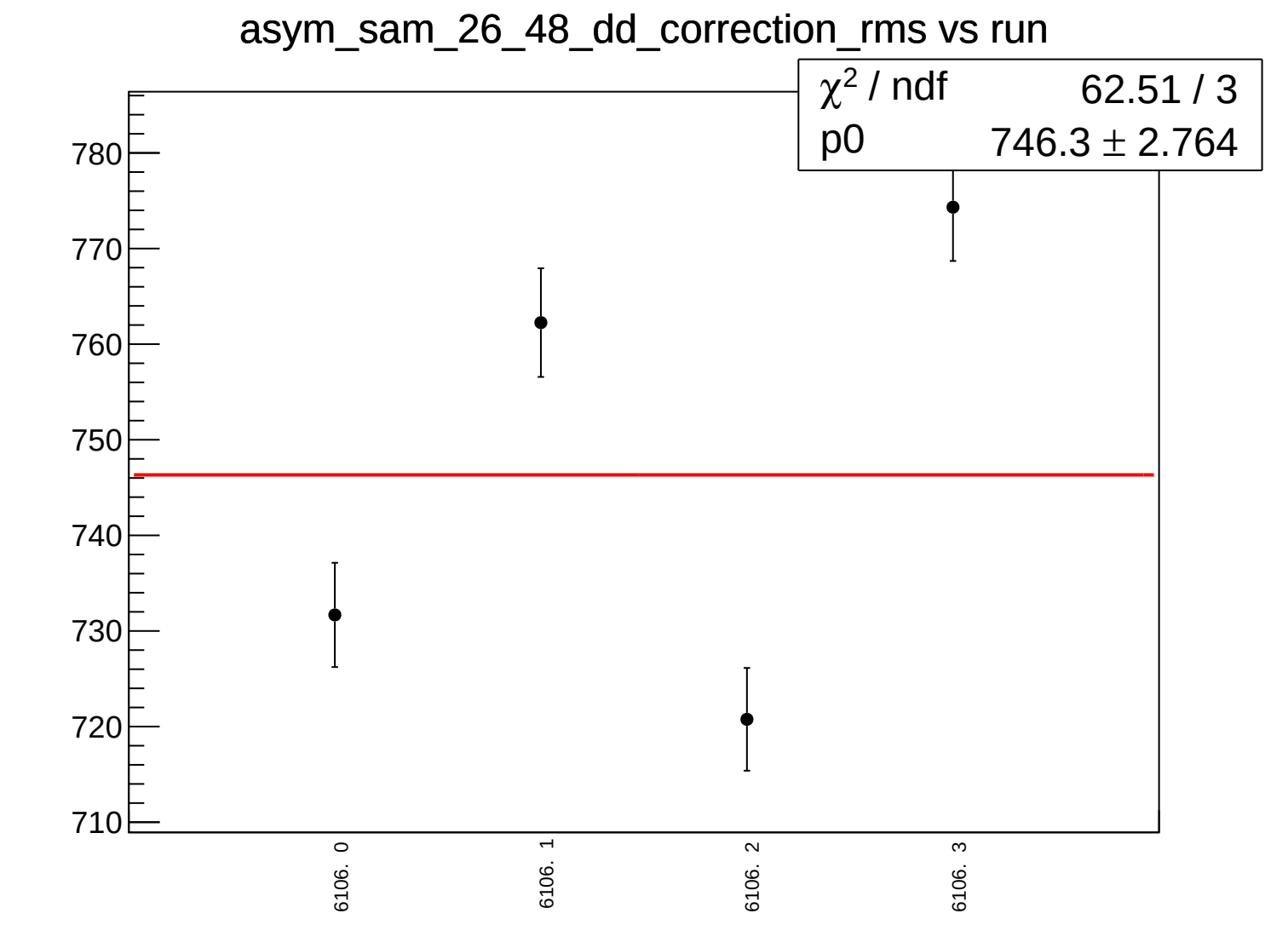

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 1.687 / 3
p0 184.3 ± 568.5
2000
1000
0
−1000
−2000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −65.23
Std Dev 73.11
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

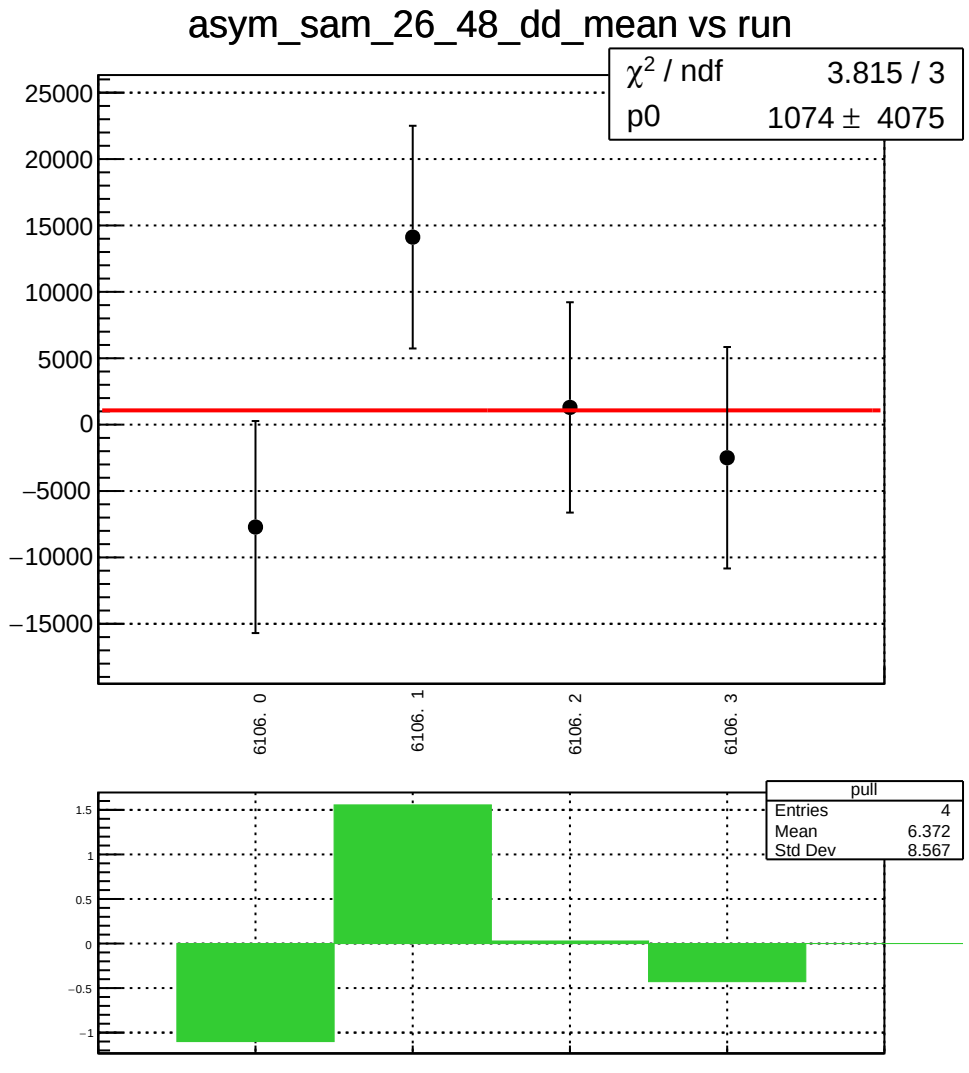

pull1D
Entries 4
Mean −0.0005846
Std Dev 0.6494
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

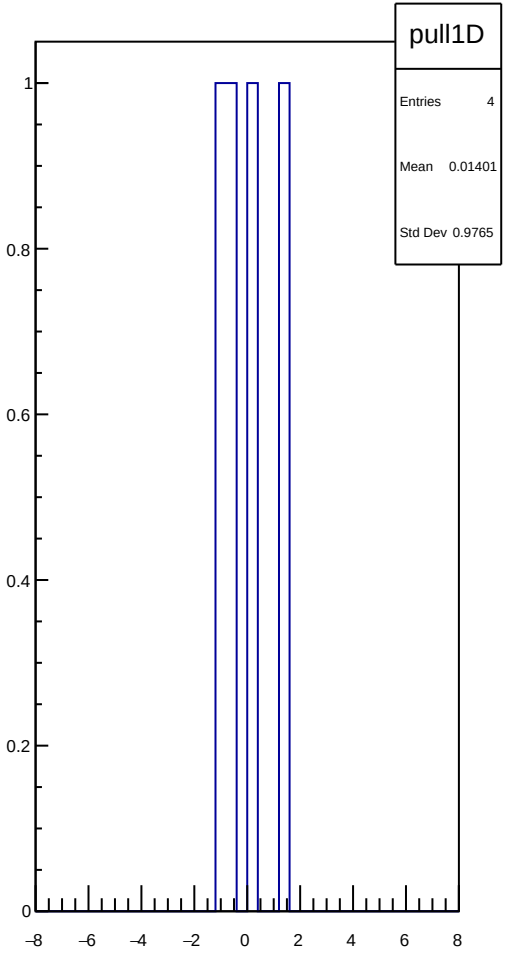

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 10.85 / 3
p0 108.6 ± 0.402
112
111
110
109
108
107
6106. 0
6106. 1
6106. 2
6106. 3

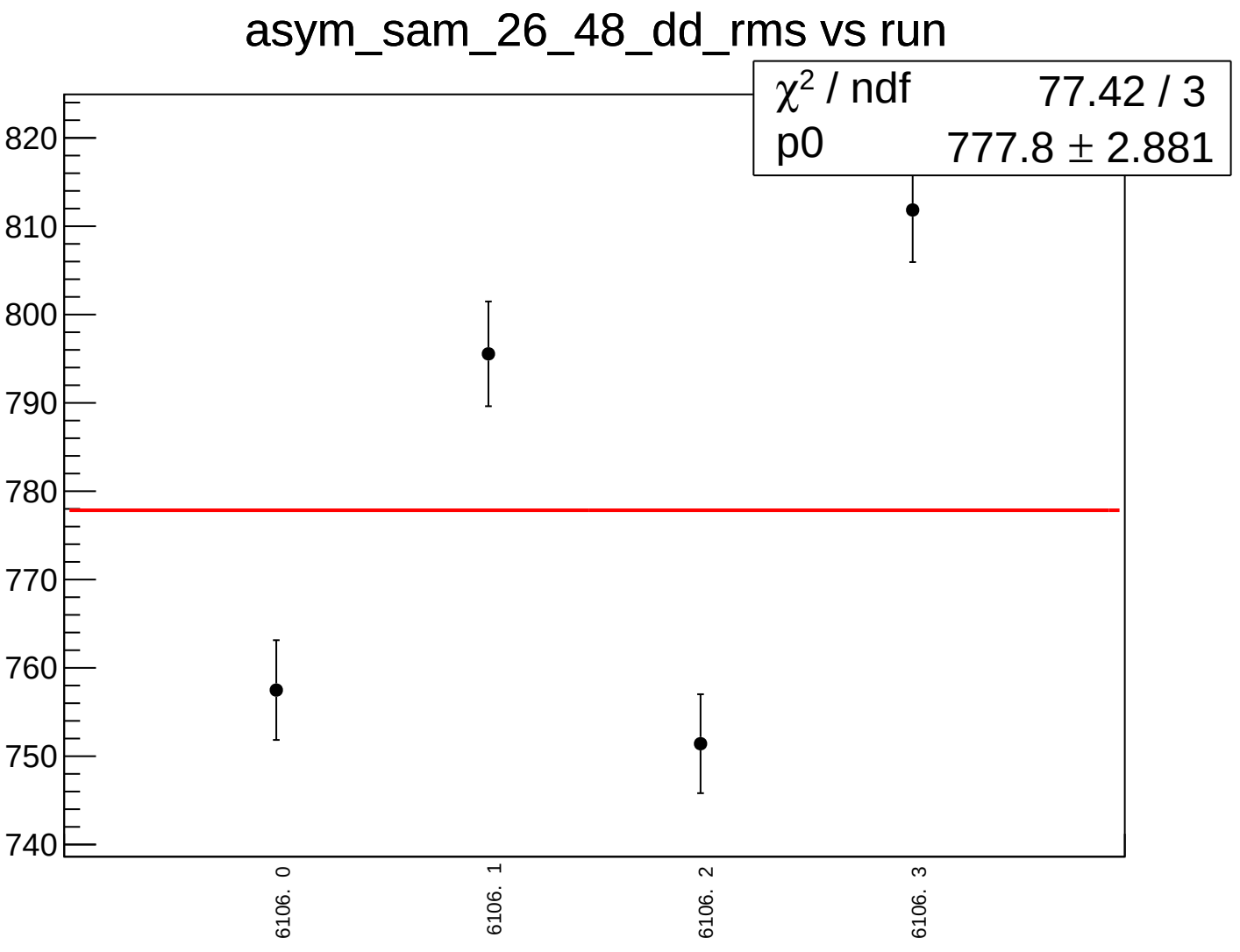

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 4.32 / 3
p0 −943.4 ± 3909
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 6.949
Std Dev 10.1
1
0.5
0
−0.5
−1
−1.5

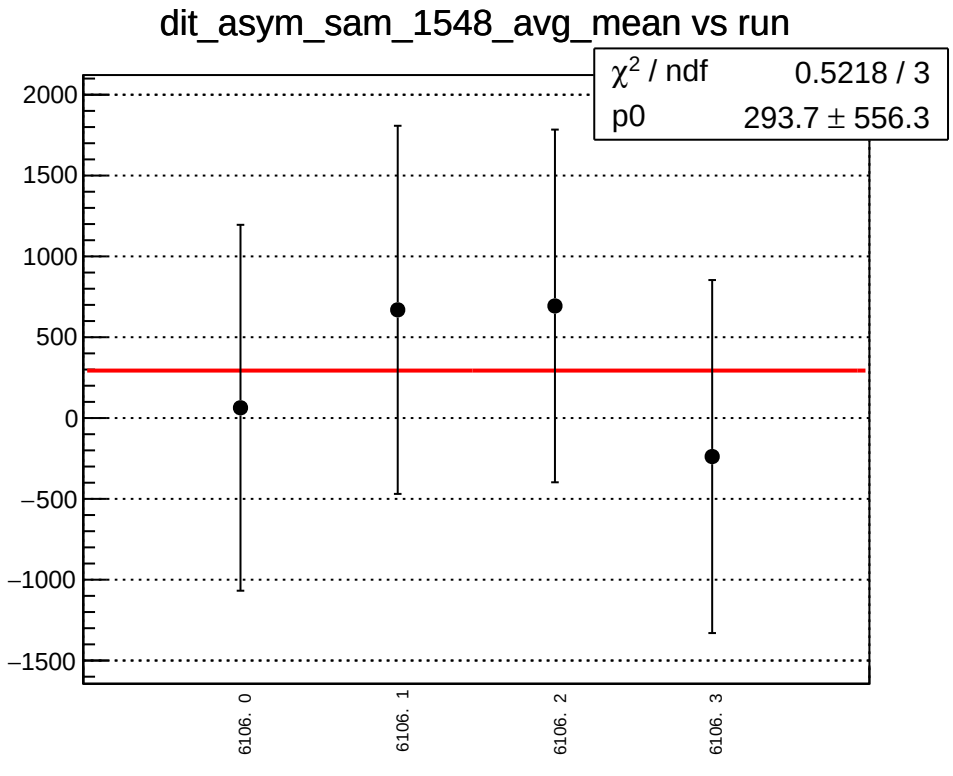

pull1D
Entries 4
Mean −0.01119
Std Dev 1.039
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

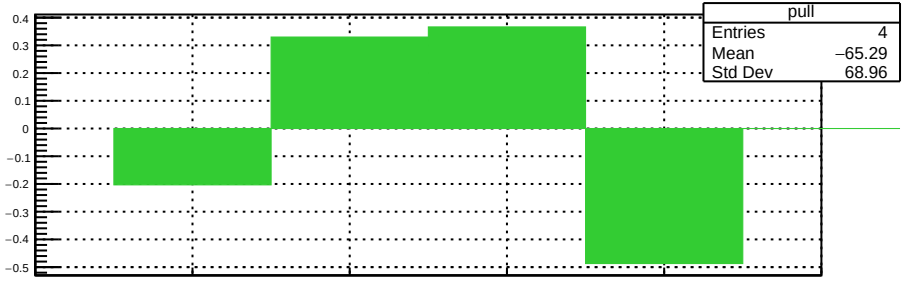

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 62.51 / 3
p0 746.3 ± 2.764
780
770
760
750
740
730
720
710
6106. 0
6106. 1
6106. 2
6106. 3

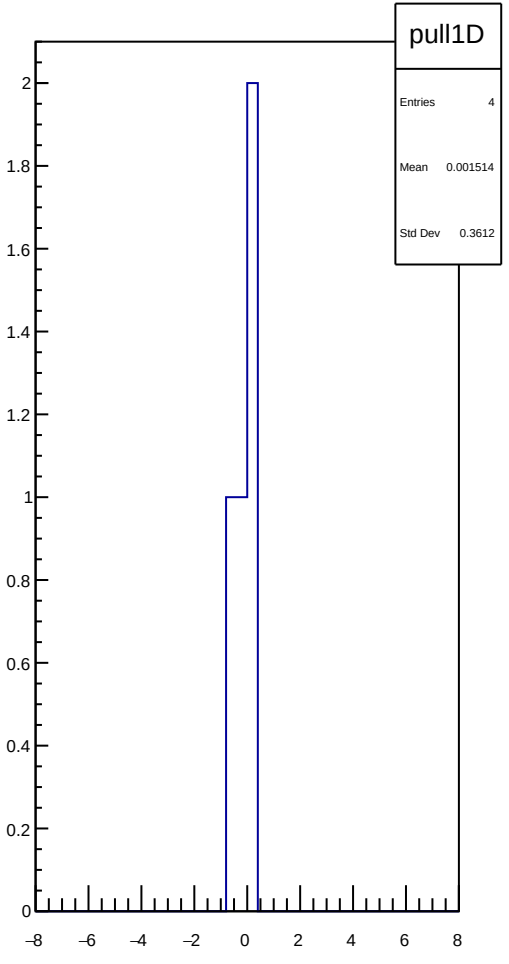

asym_sam_26_48_dd_mean vs run
χ² / ndf 3.815 / 3
p0 1074 ± 4075
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 6.372
Std Dev 8.567
1.5
1
0.5
0
−0.5
−1

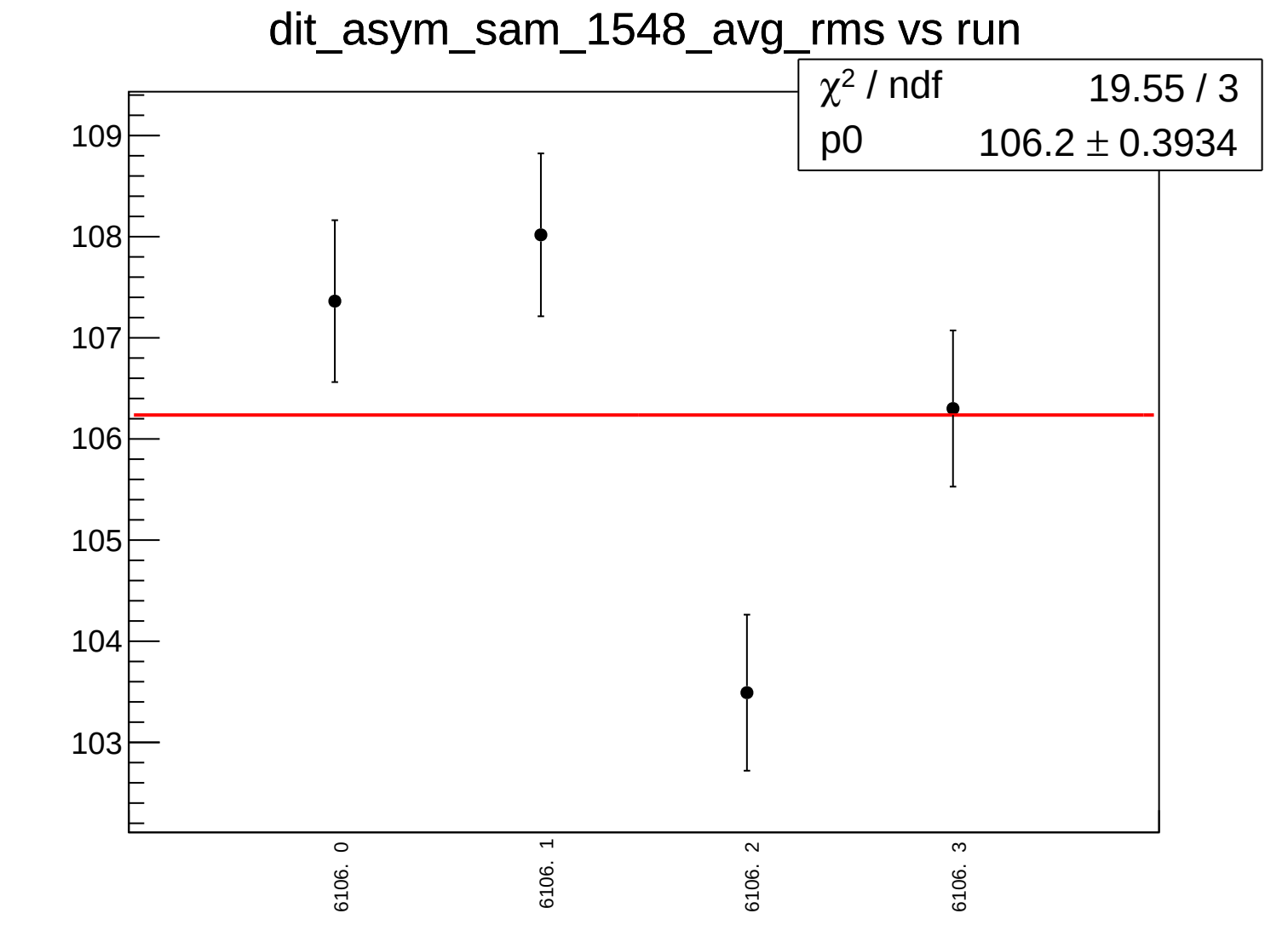

pull1D
Entries 4
Mean 0.01401
Std Dev 0.9765
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

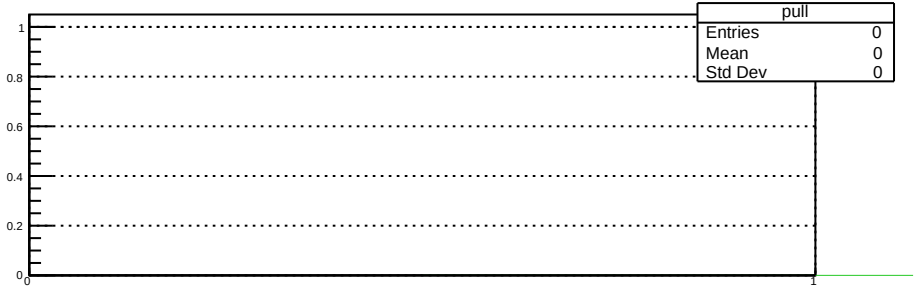

asym_sam_26_48_dd_rms vs run
χ² / ndf 77.42 / 3
p0 777.8 ± 2.881
820
810
800
790
780
770
760
750
740
6106. 0
6106. 1
6106. 2
6106. 3

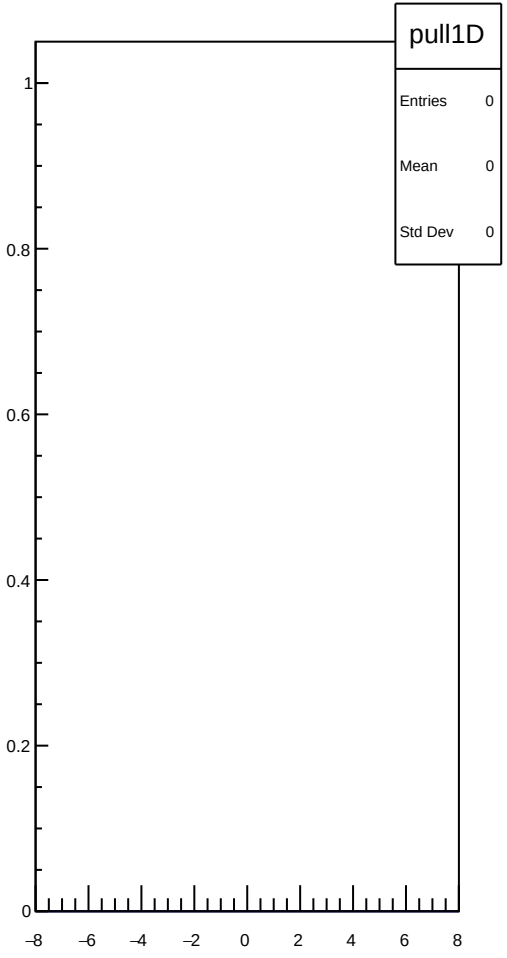

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 0.5218 / 3
p0 293.7 ± 556.3
2000
1500
1000
500
0
−500
−1000
−1500
6106. 0
6106. 1
6106. 2
6106. 3

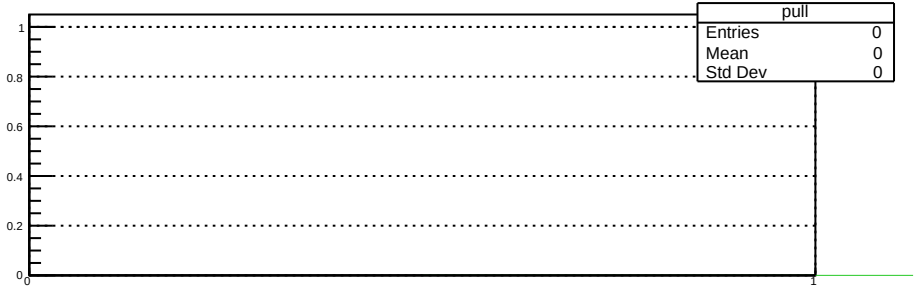

pull
Entries 4
Mean −65.29
Std Dev 68.96
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

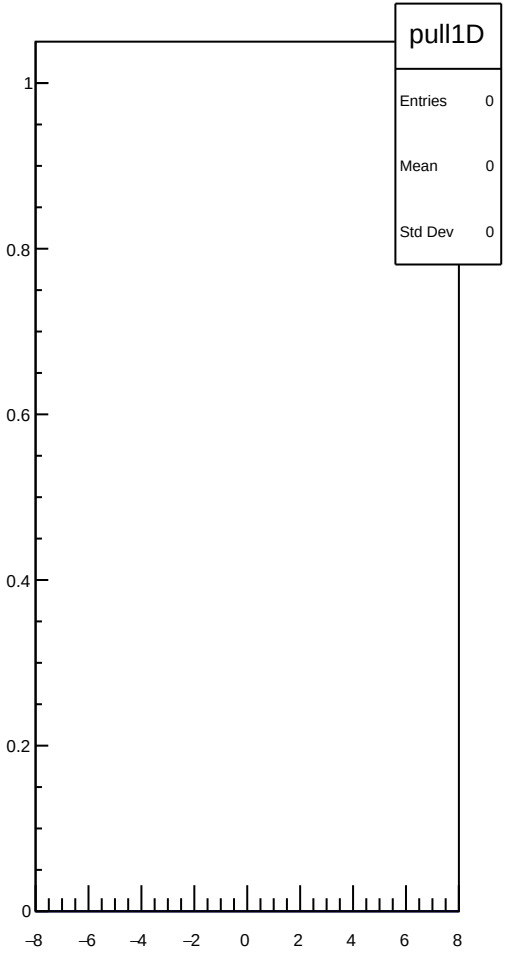

pull1D
Entries 4
Mean 0.001514
Std Dev 0.3612
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

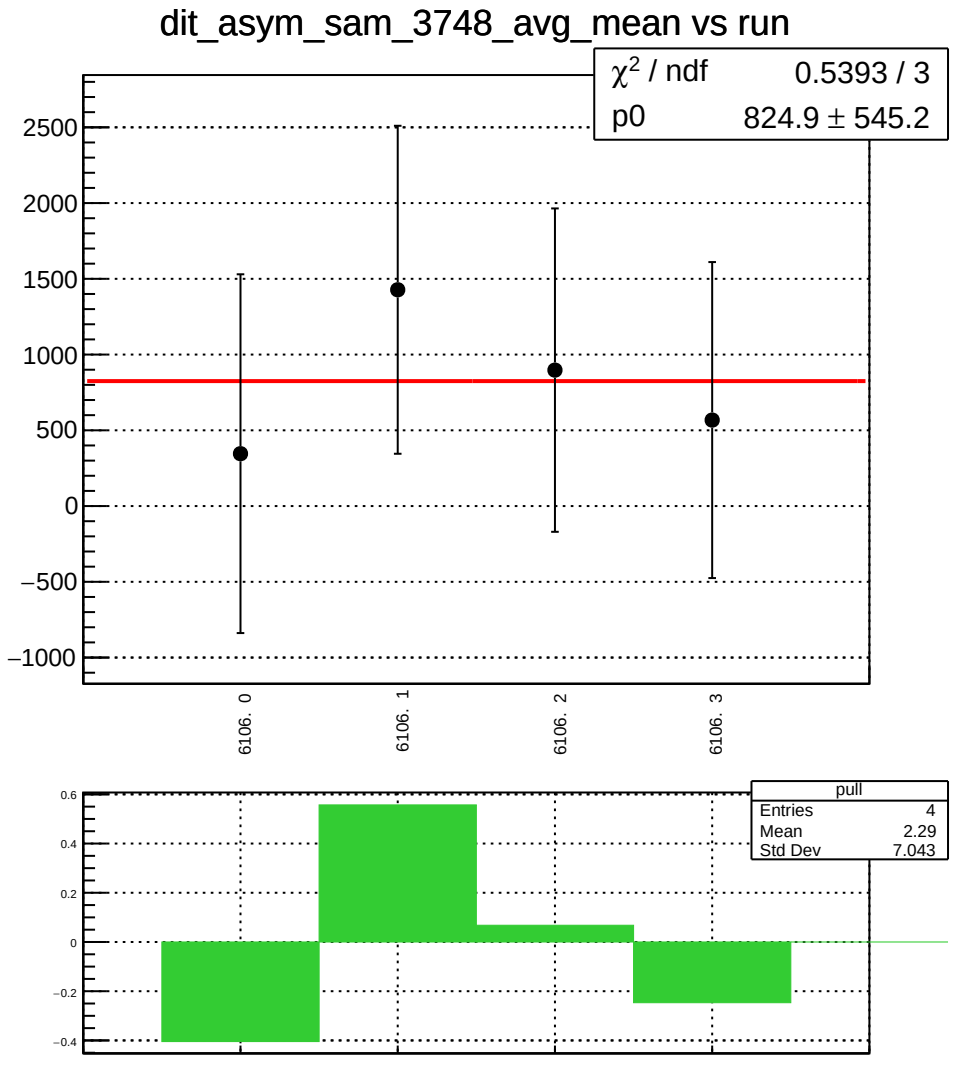

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 19.55 / 3
p0 106.2 ± 0.3934
109
108
107
106
105
104
103
6106. 0
6106. 1
6106. 2
6106. 3

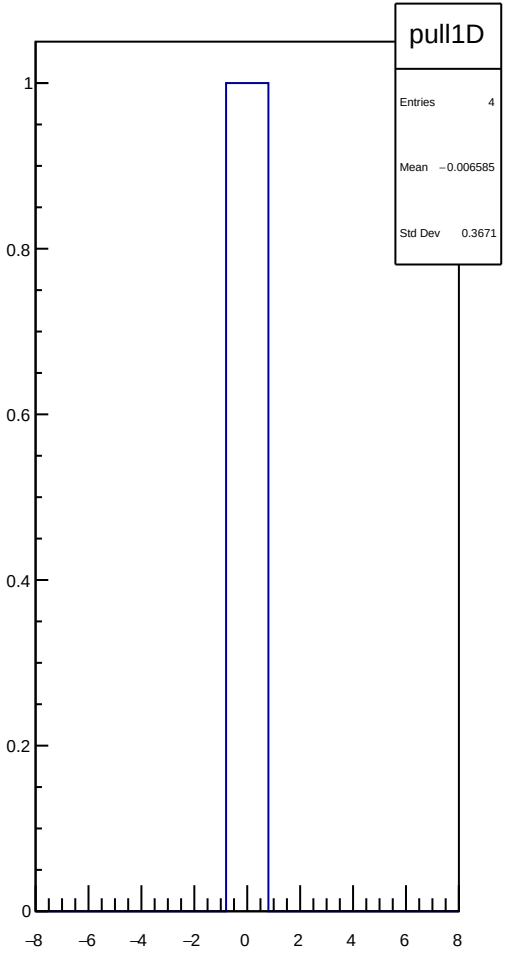

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

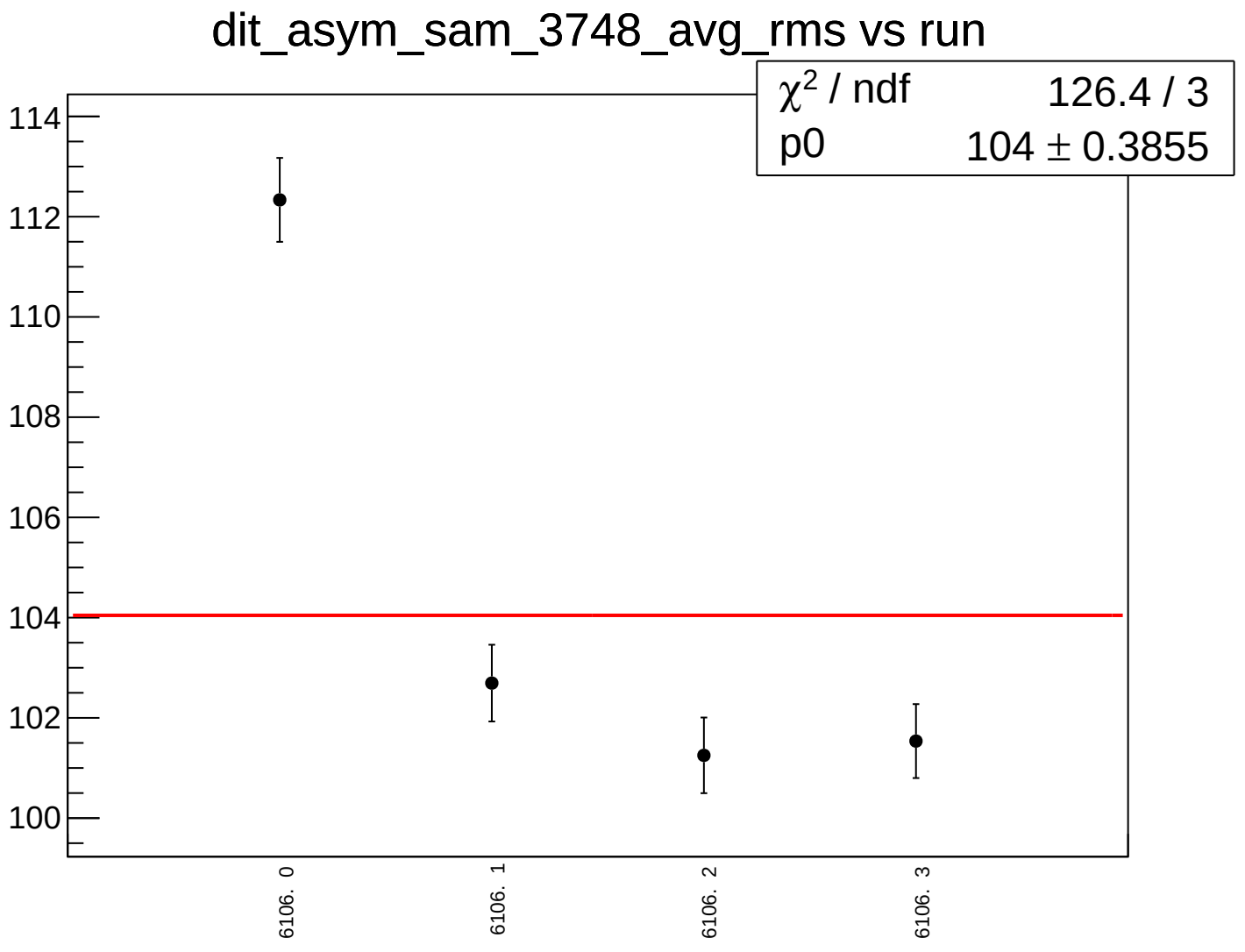

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

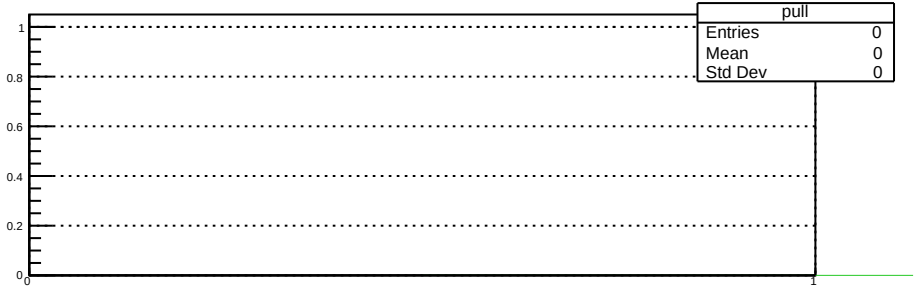

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

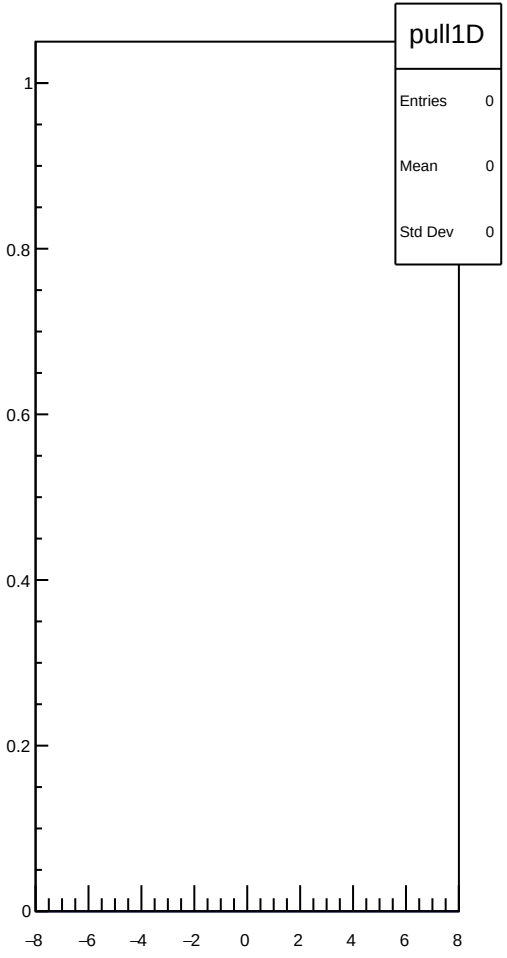

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

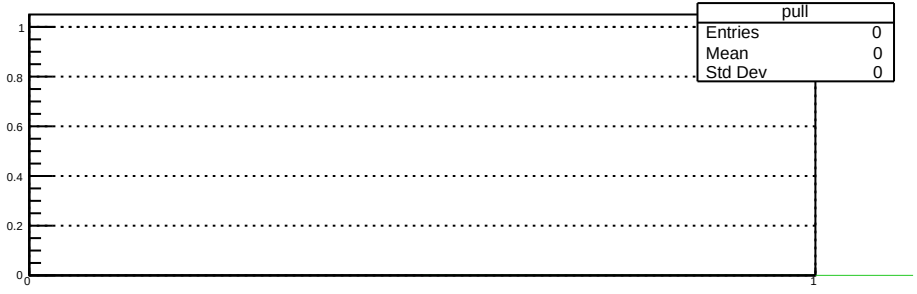

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 0.5393 / 3
p0 824.9 ± 545.2
2500
2000
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 2.29
Std Dev 7.043
0.6
0.4
0.2
0
−0.2
−0.4

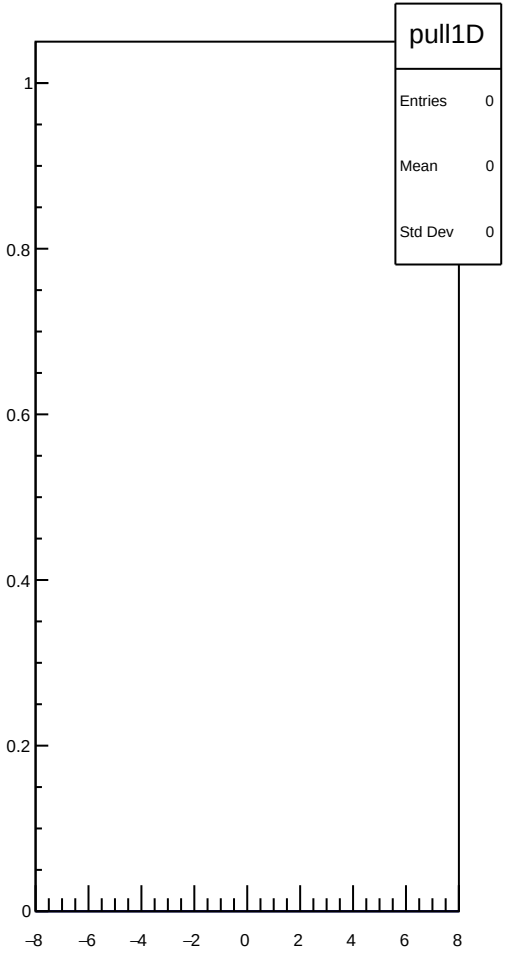

pull1D
Entries 4
Mean −0.006585
Std Dev 0.3671
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

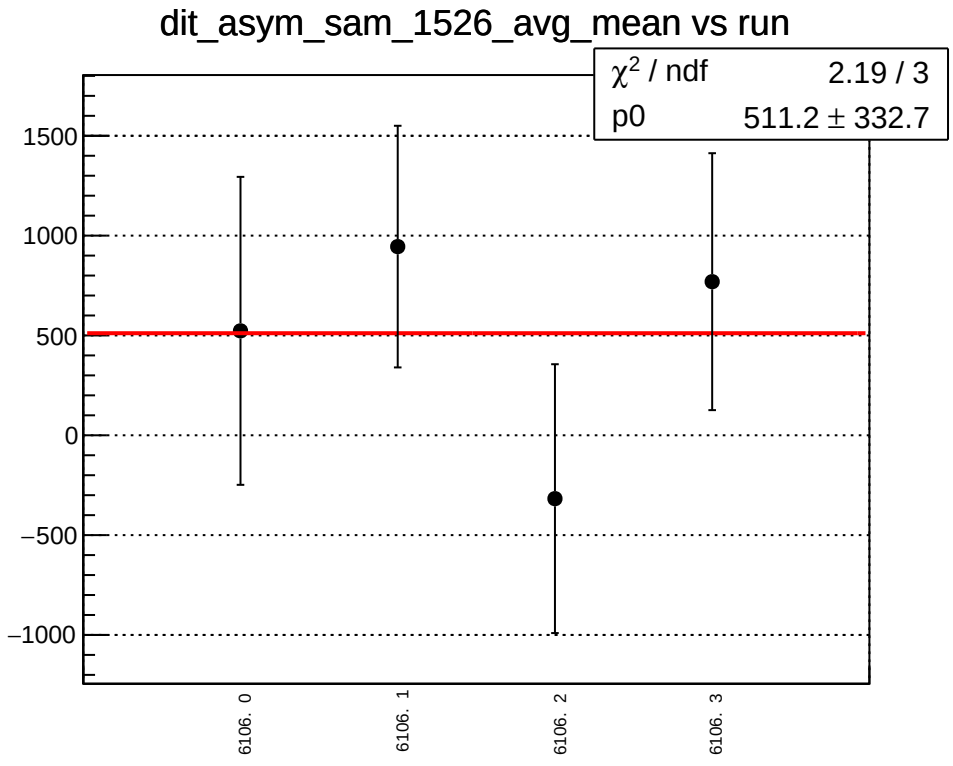

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 126.4 / 3
p0 104 ± 0.3855
114
112
110
108
106
104
102
100
6106. 0
6106. 1
6106. 2
6106. 3

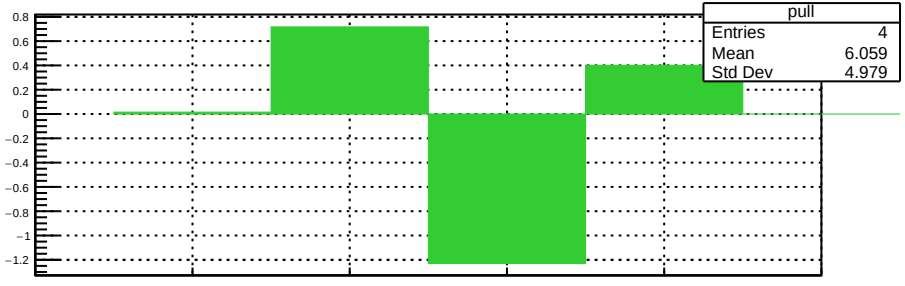

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

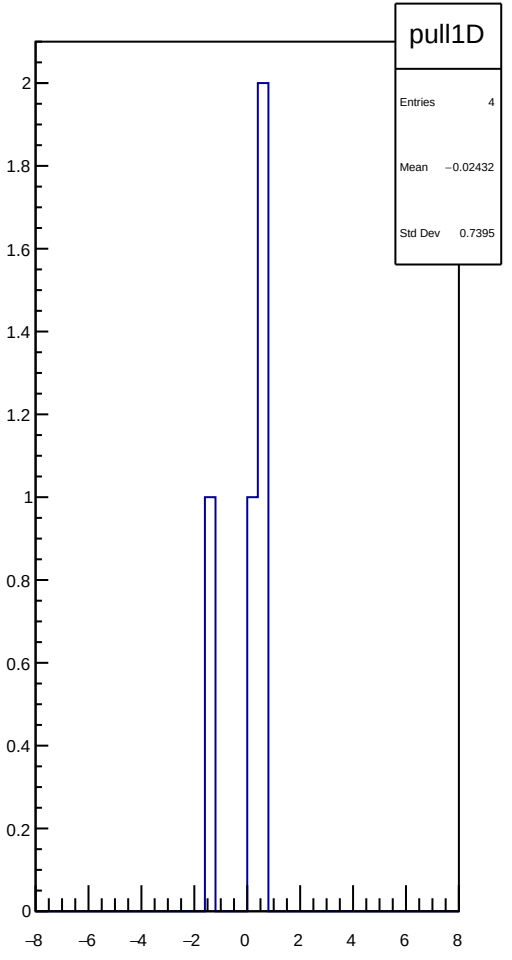

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

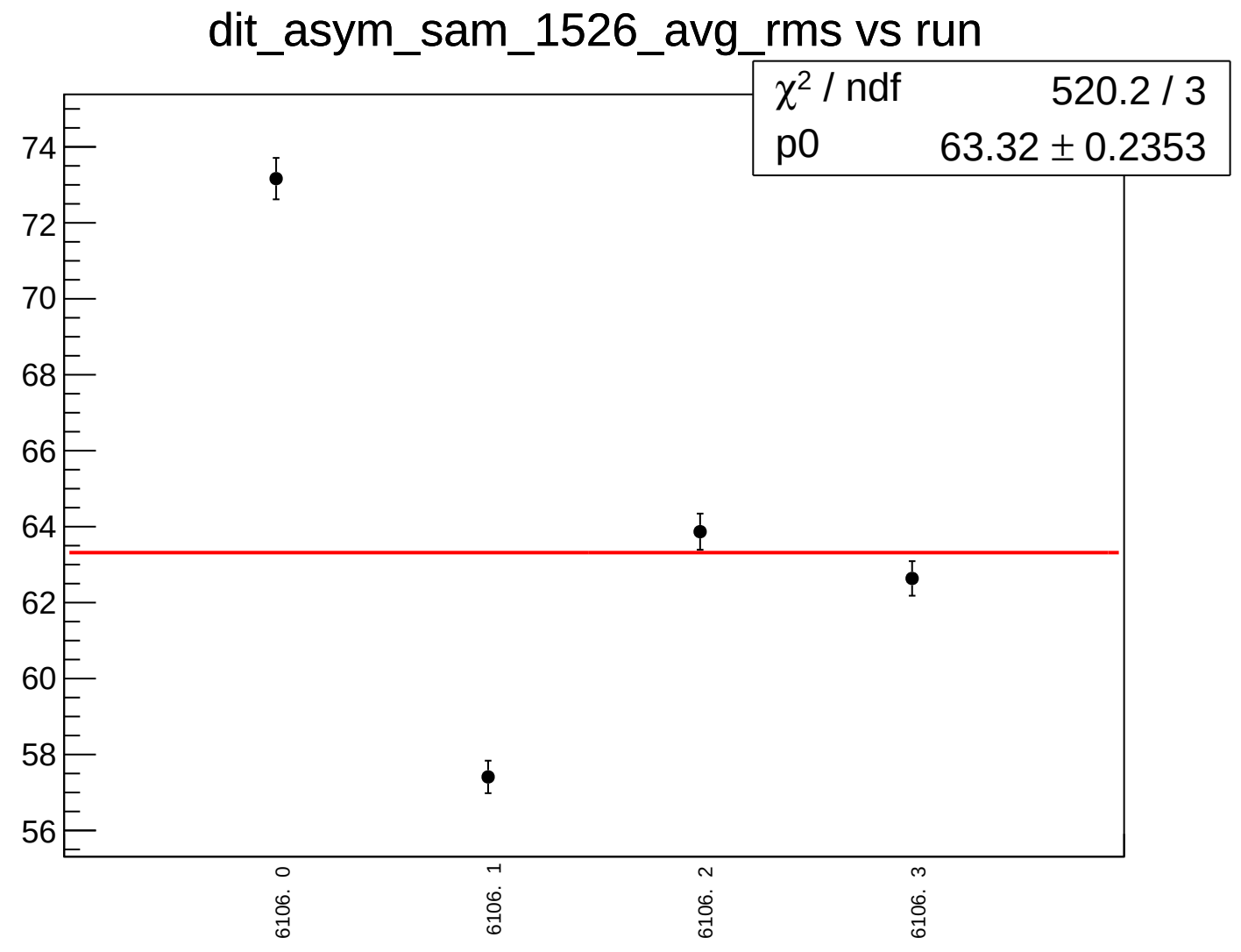

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

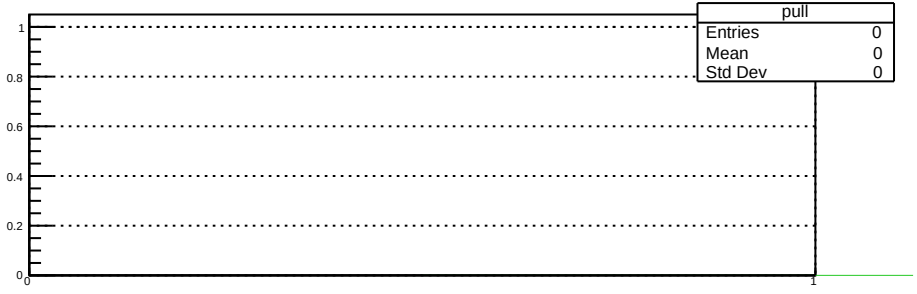

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

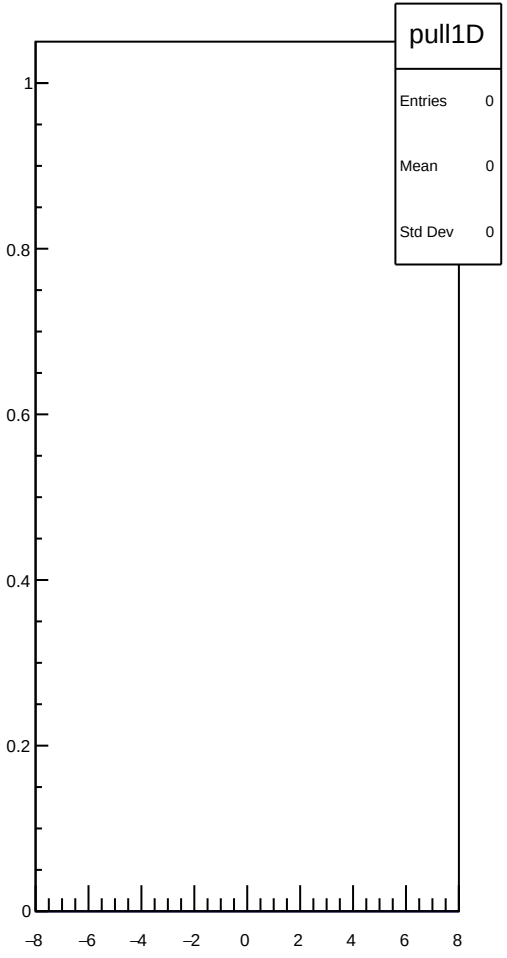

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 2.19 / 3
p0 511.2 ± 332.7
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3

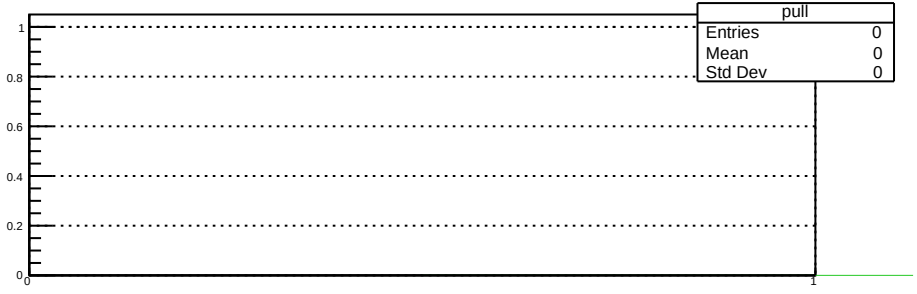

pull
Entries 4
Mean 6.059
Std Dev 4.979
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

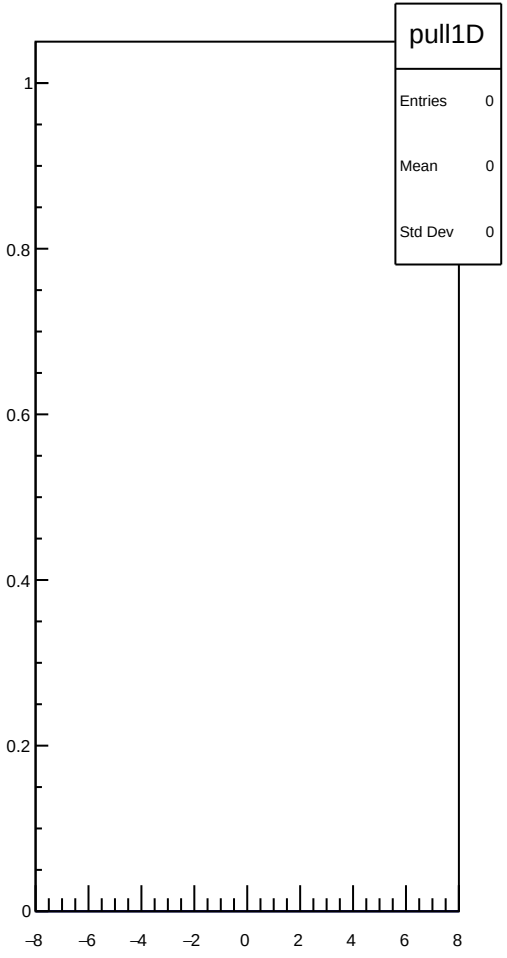

pull1D
Entries 4
Mean −0.02432
Std Dev 0.7395
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

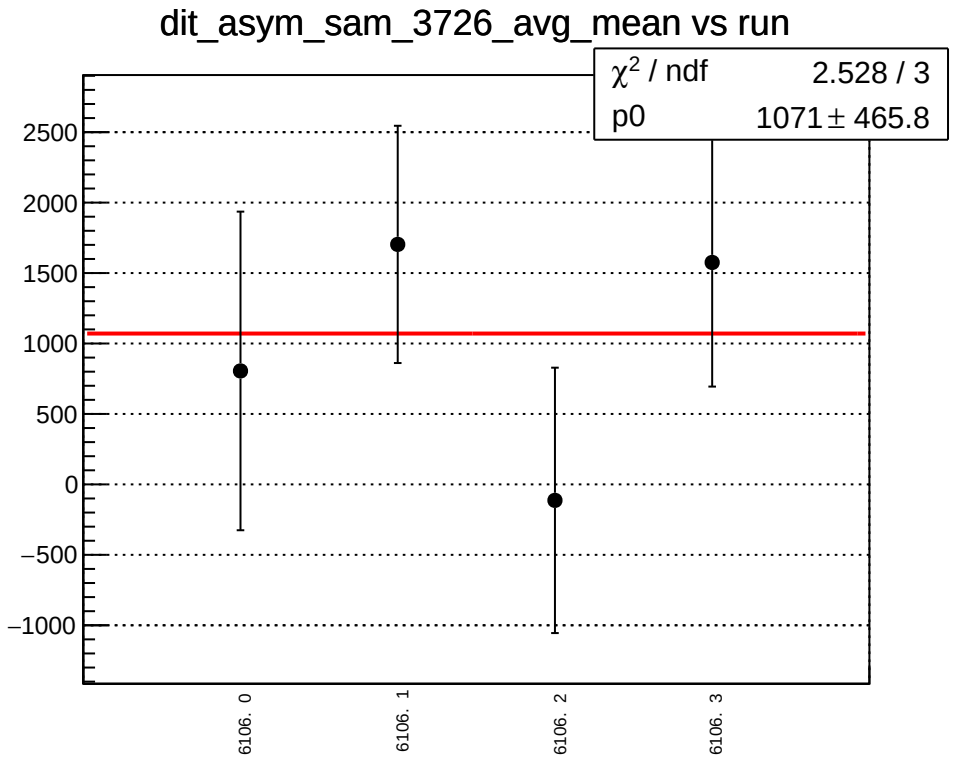

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 520.2 / 3
p0 63.32 ± 0.2353
74
72
70
68
66
64
62
60
58
56
6106. 0
6106. 1
6106. 2
6106. 3

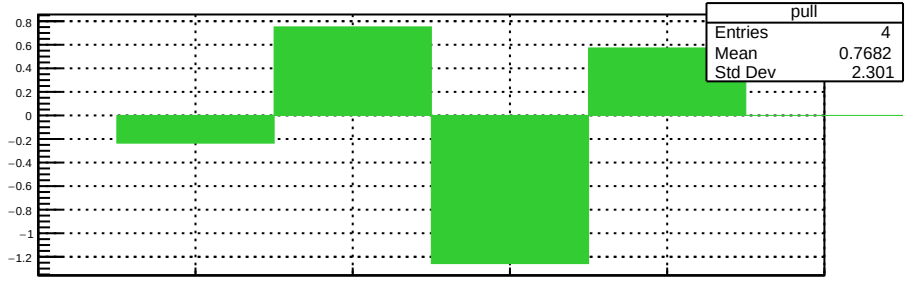

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

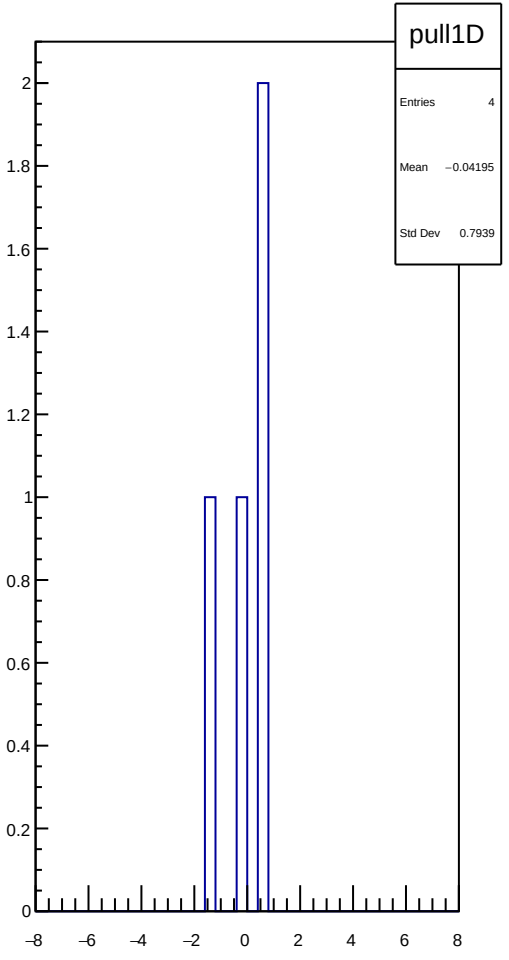

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

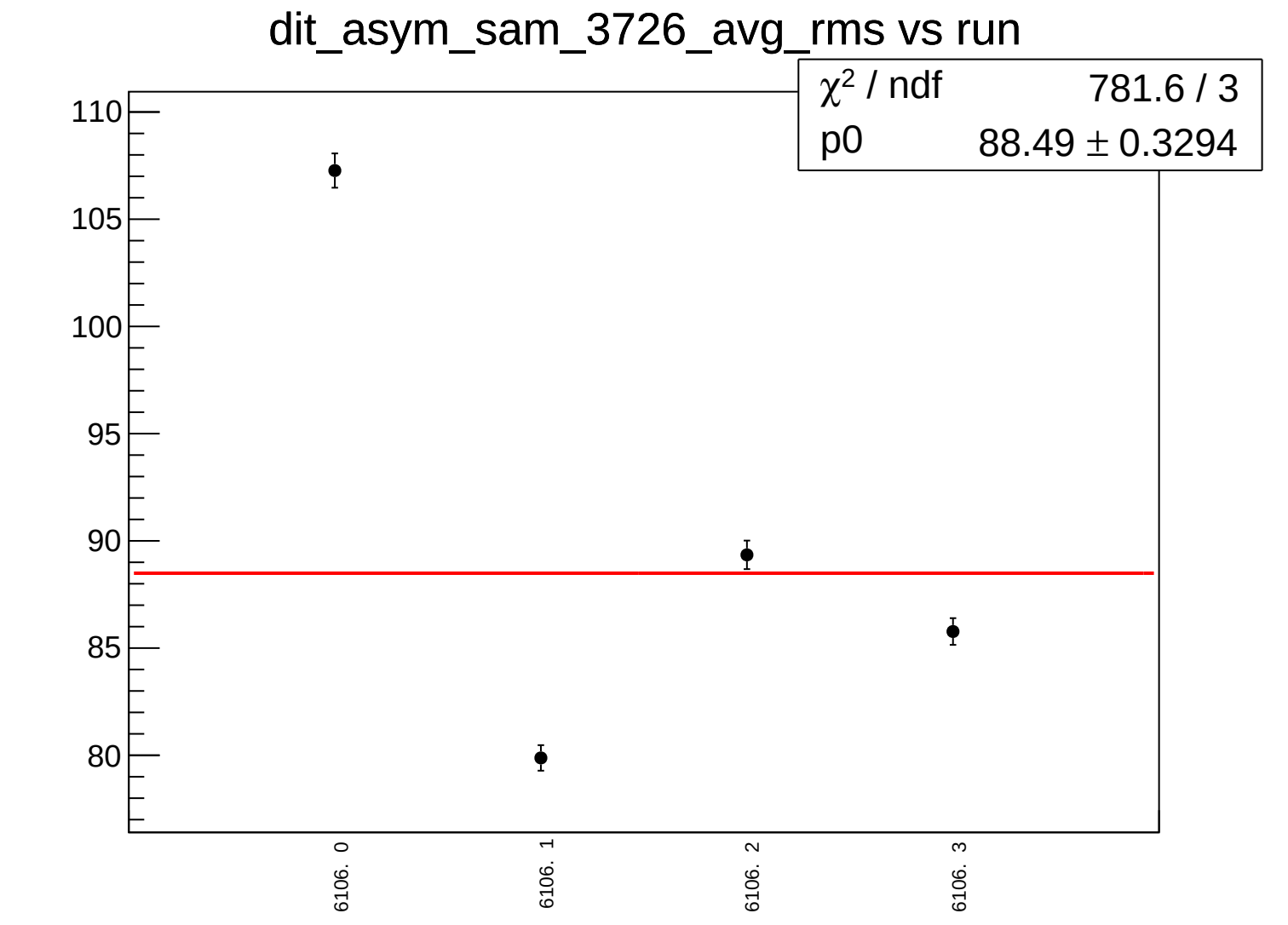

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

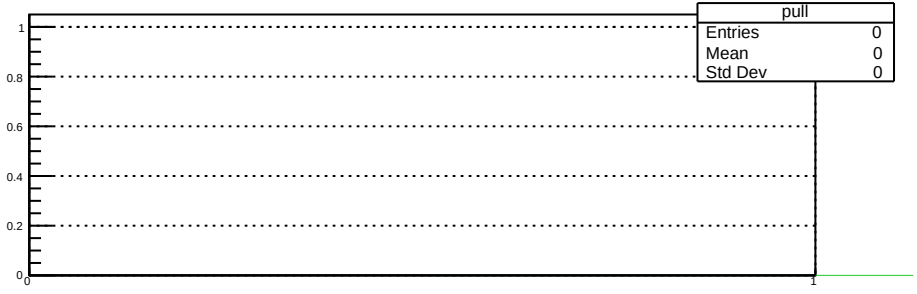

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

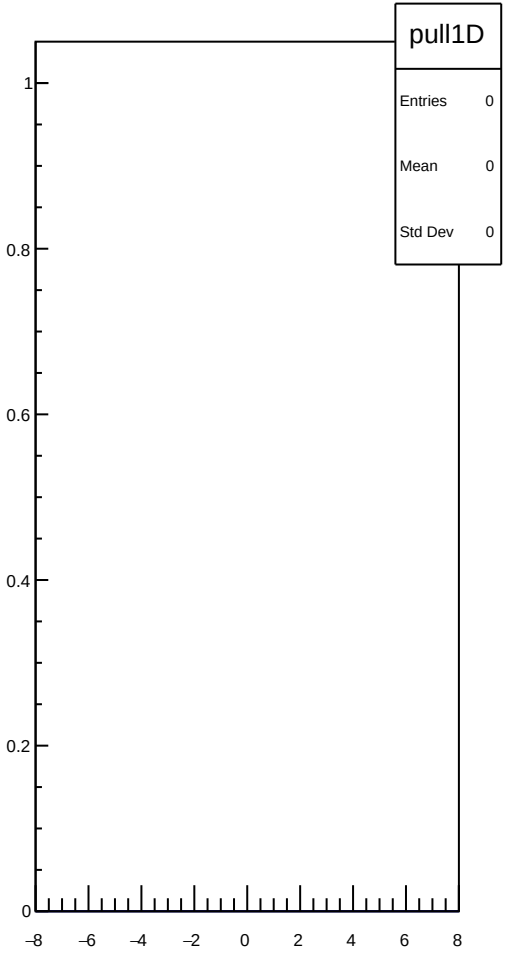

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 2.528 / 3
p0 1071 ± 465.8
2500
2000
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3

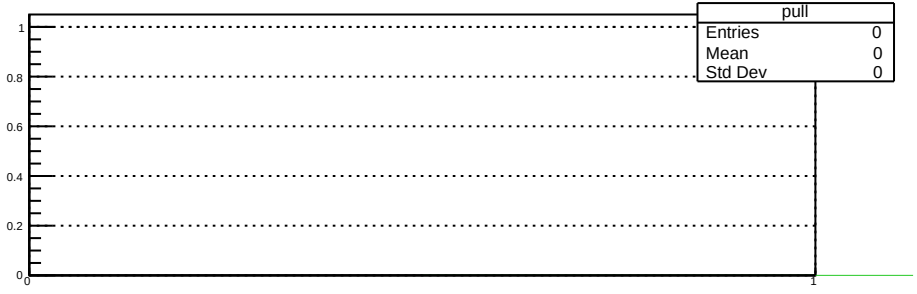

pull
Entries 4
Mean 0.7682
Std Dev 2.301
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

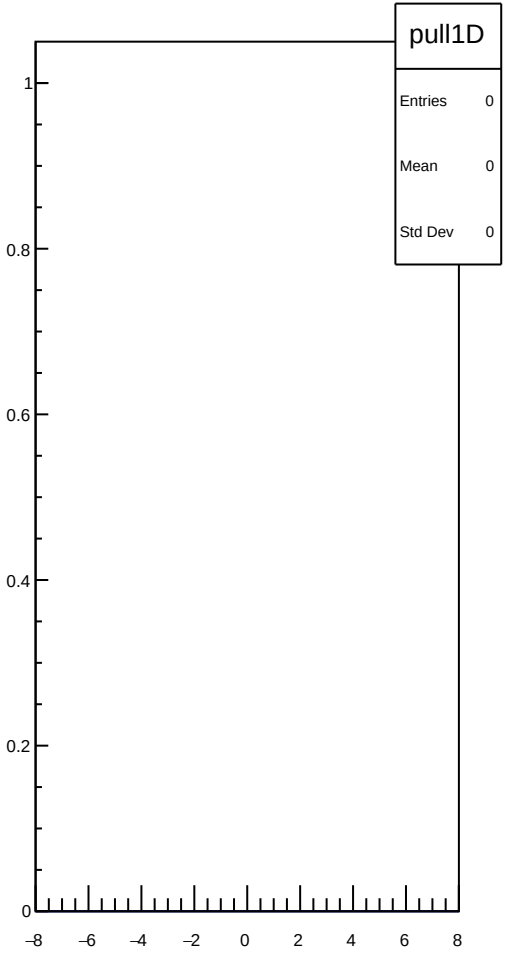

pull1D
Entries 4
Mean −0.04195
Std Dev 0.7939
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

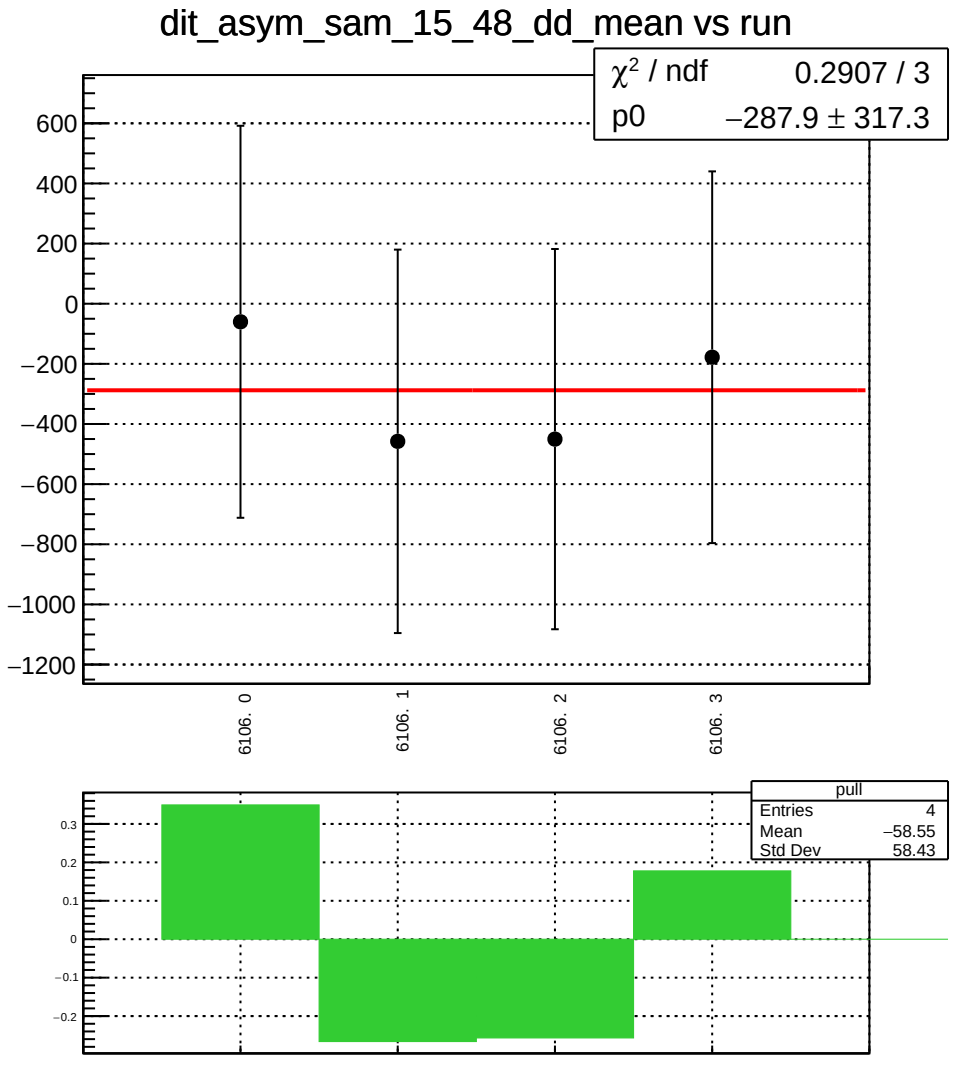

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 781.6 / 3
p0 88.49 ± 0.3294
110
105
100
95
90
85
80
6106. 0
6106. 1
6106. 2
6106. 3

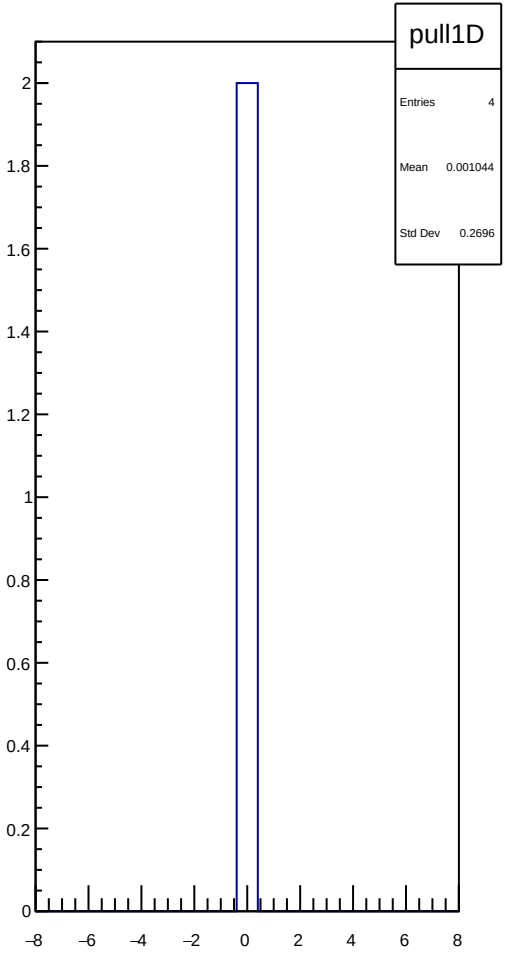

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

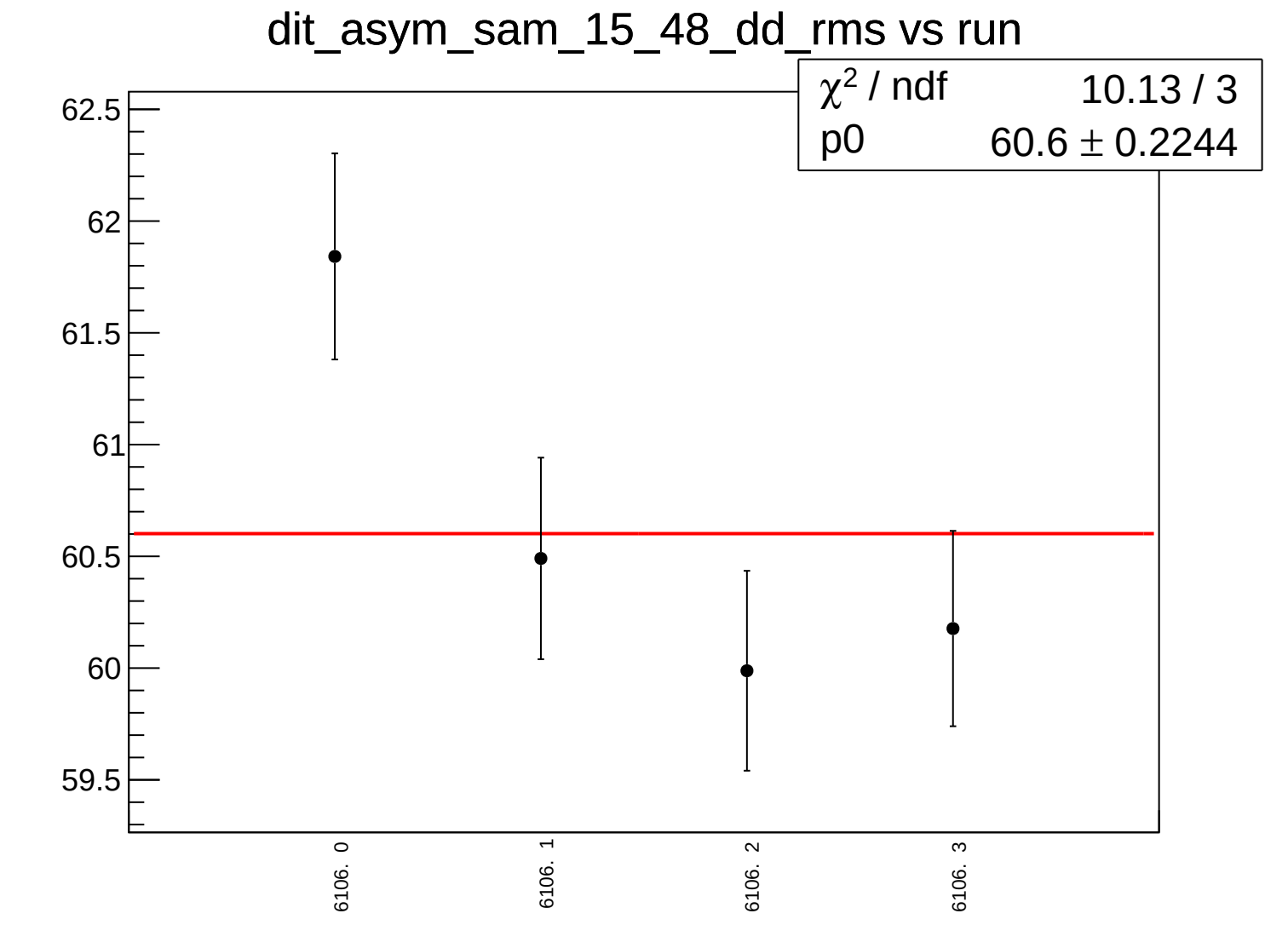

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

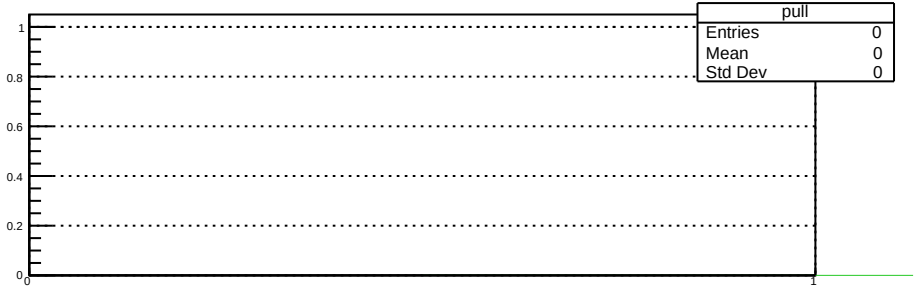

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

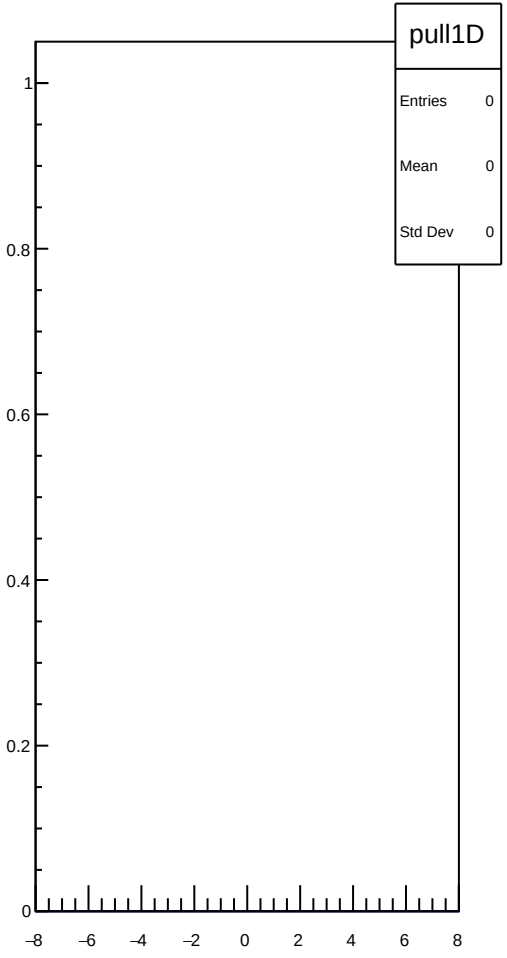

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

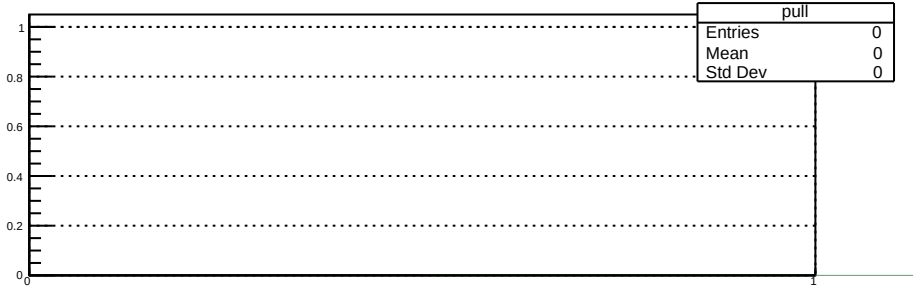

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 0.2907 / 3
p0 −287.9 ± 317.3
600
400
200
0
−200
−400
−600
−800
−1000
−1200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −58.55
Std Dev 58.43
0.3
0.2
0.1
0
−0.1
−0.2

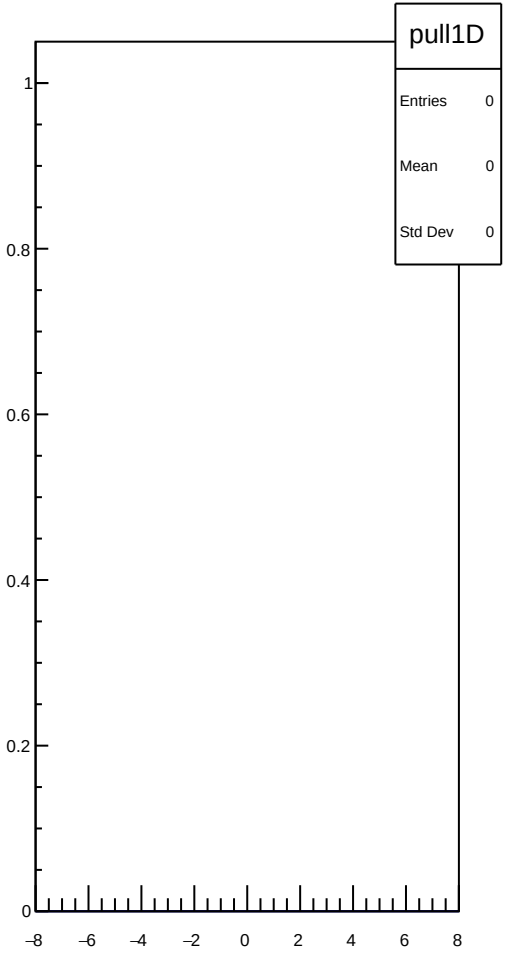

pull1D
Entries 4
Mean 0.001044
Std Dev 0.2696
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

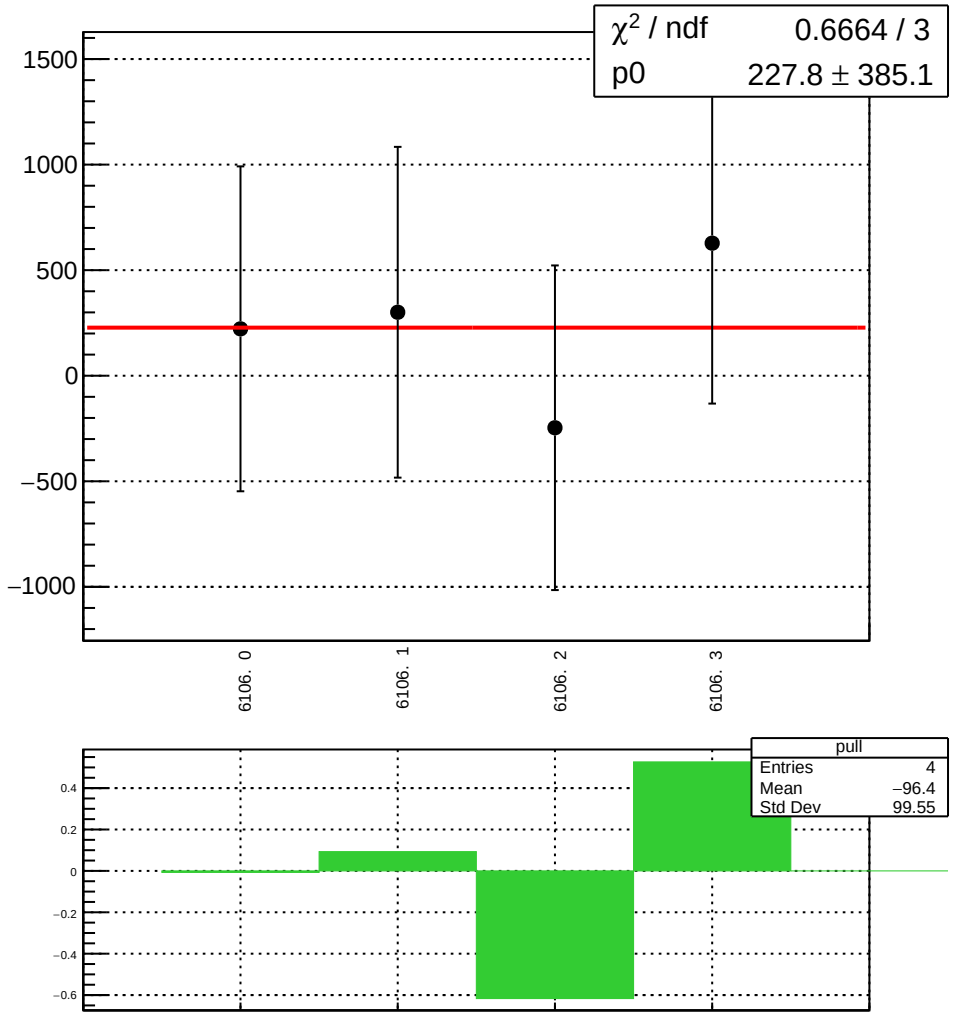

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 10.13 / 3
p0 60.6 ± 0.2244
62.5
62
61.5
61
60.5
60
59.5
6106. 0
6106. 1
6106. 2
6106. 3

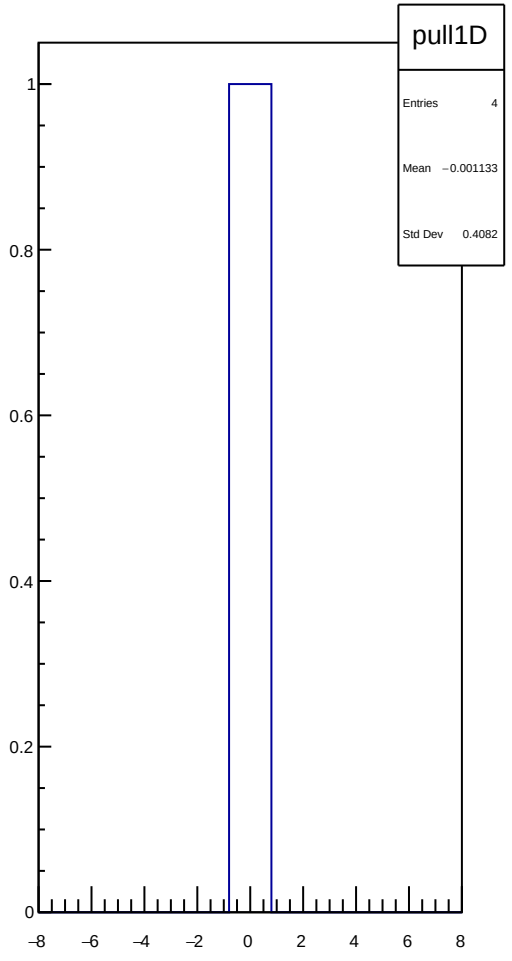

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

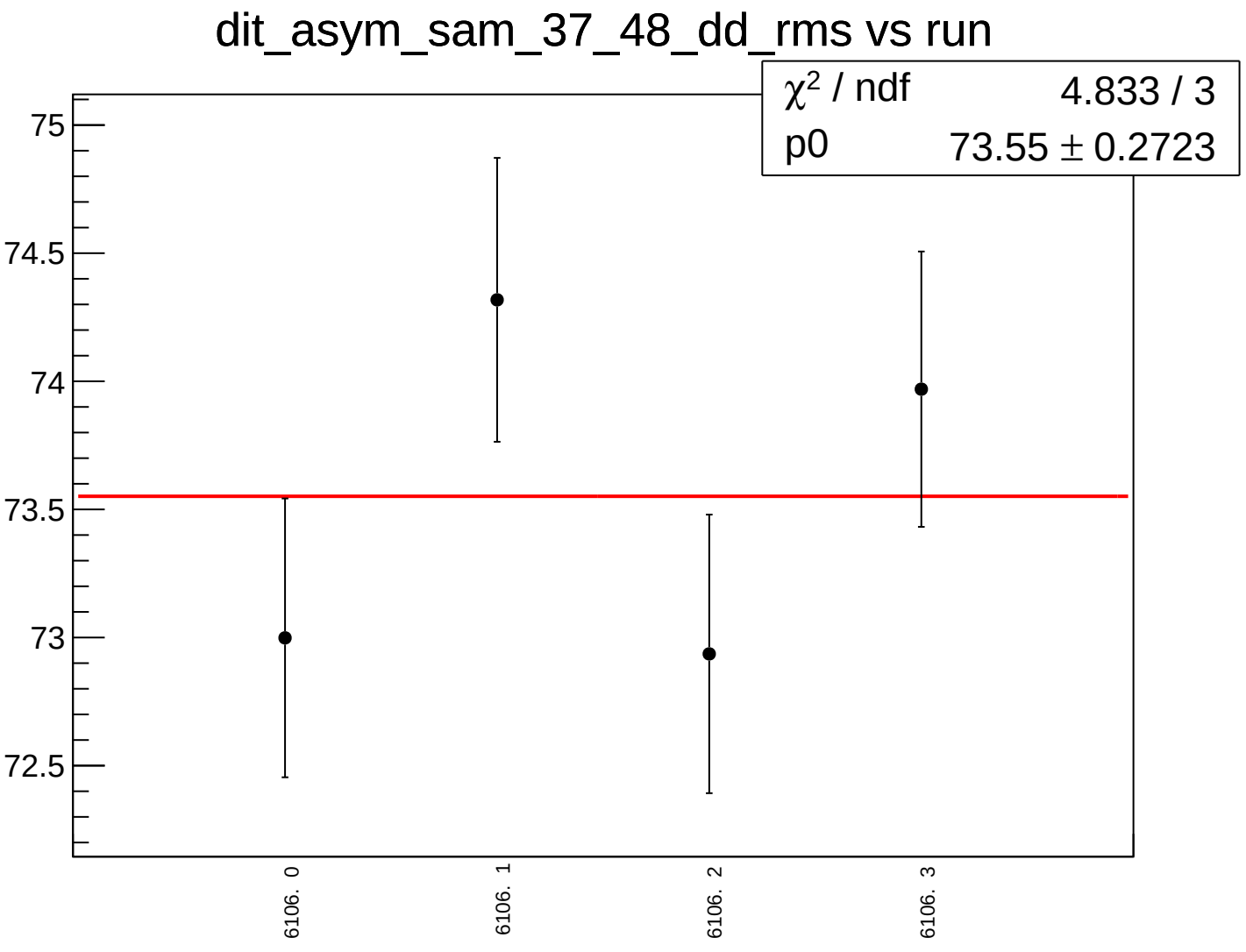

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

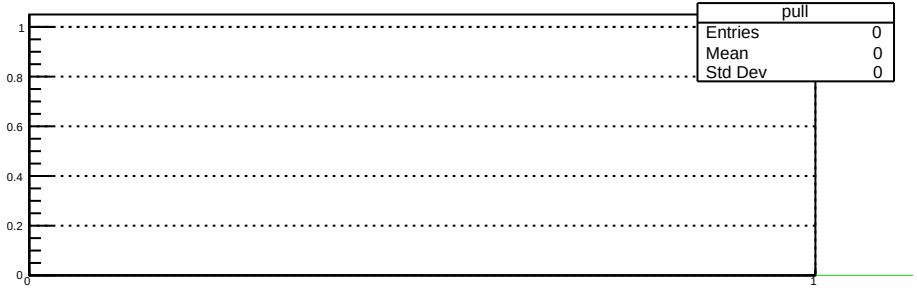

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

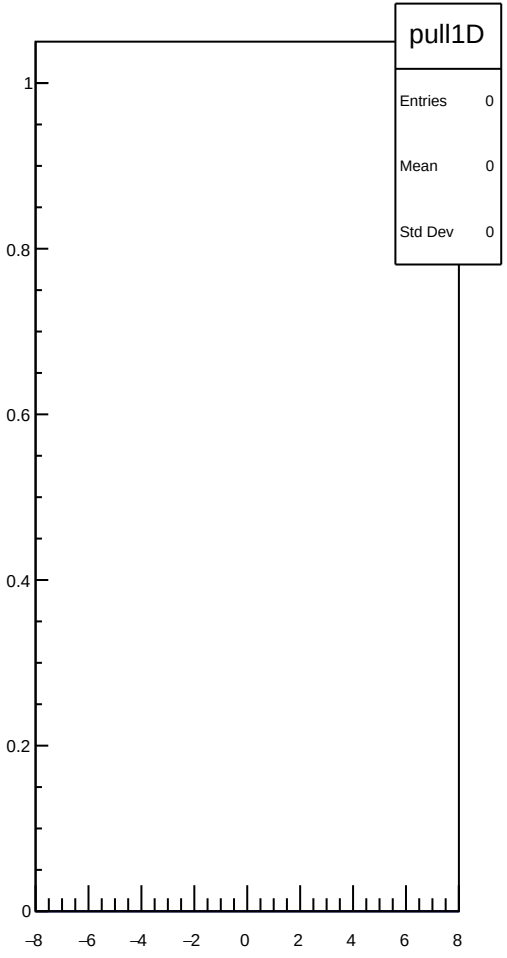

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

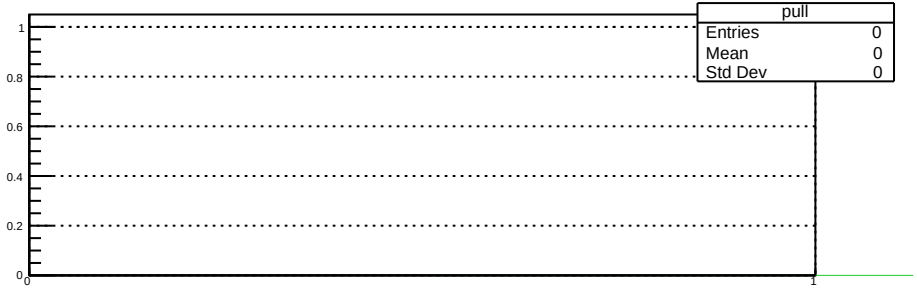

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 0.6664 / 3
p0 227.8 ± 385.1
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −96.4
Std Dev 99.55
0.4
0.2
0
−0.2
−0.4
−0.6

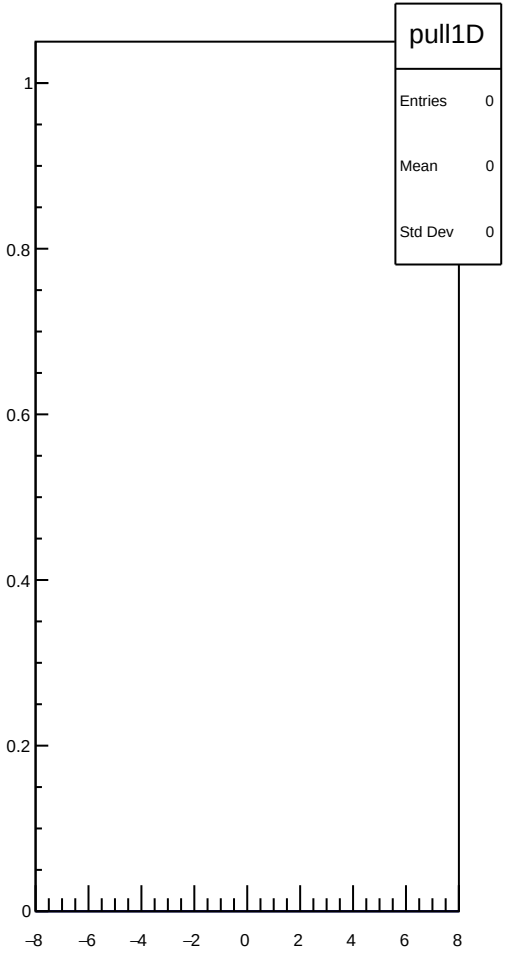

pull1D
Entries 4
Mean −0.001133
Std Dev 0.4082
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

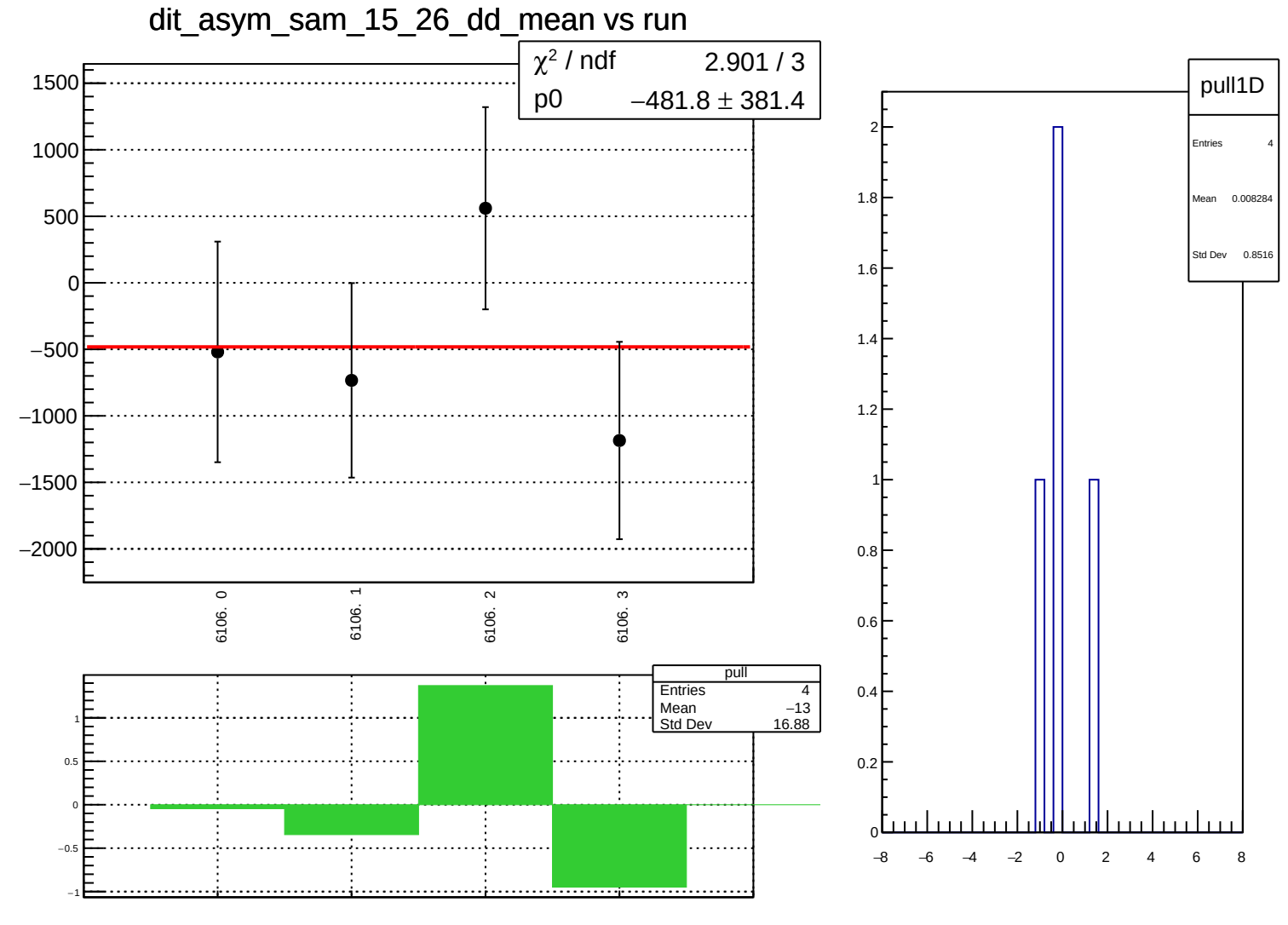

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4.833 / 3
p0 73.55 ± 0.2723
75
74.5
74
73.5
73
72.5
6106. 0
6106. 1
6106. 2
6106. 3

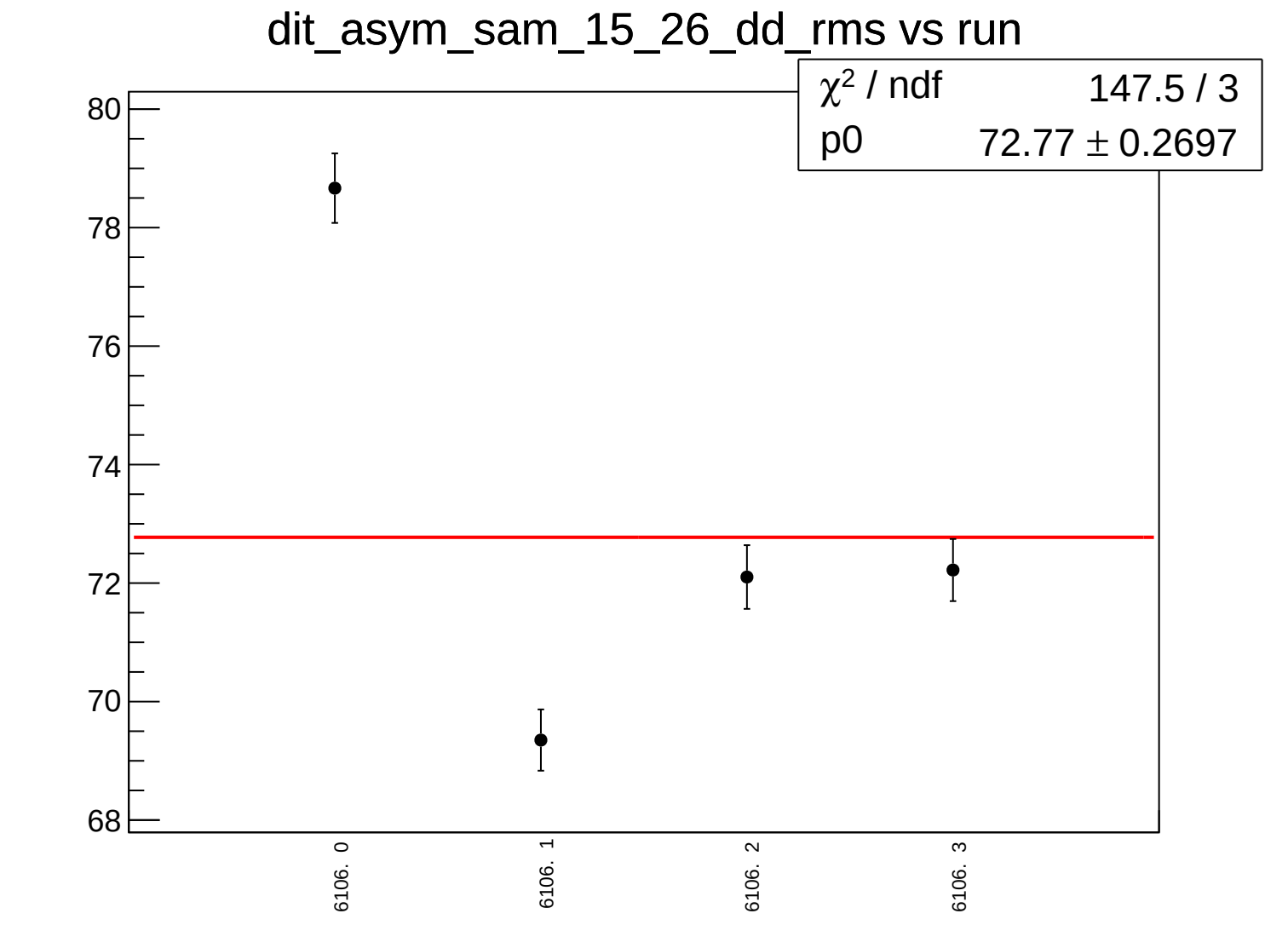

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

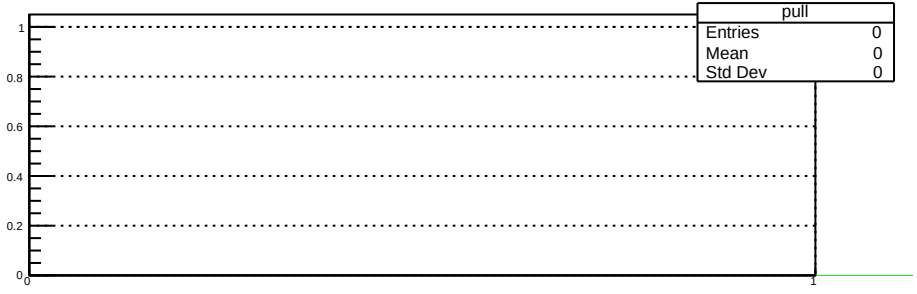

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

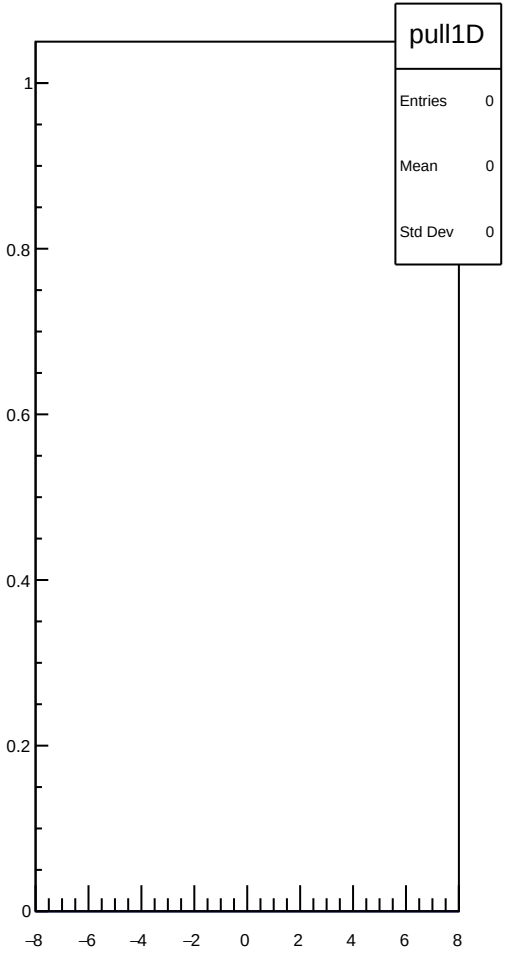

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

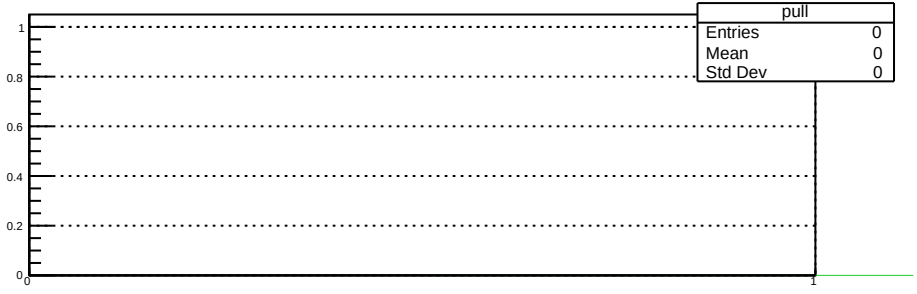

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

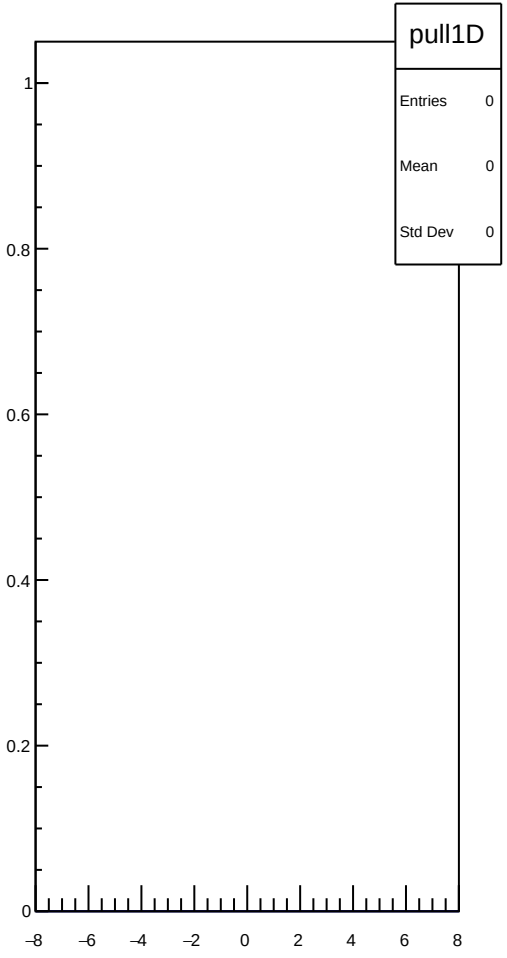

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 2.901 / 3
p0 −481.8 ± 381.4
1500
1000
500
0
−500
−1000
−1500
−2000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −13
Std Dev 16.88
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean 0.008284
Std Dev 0.8516
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

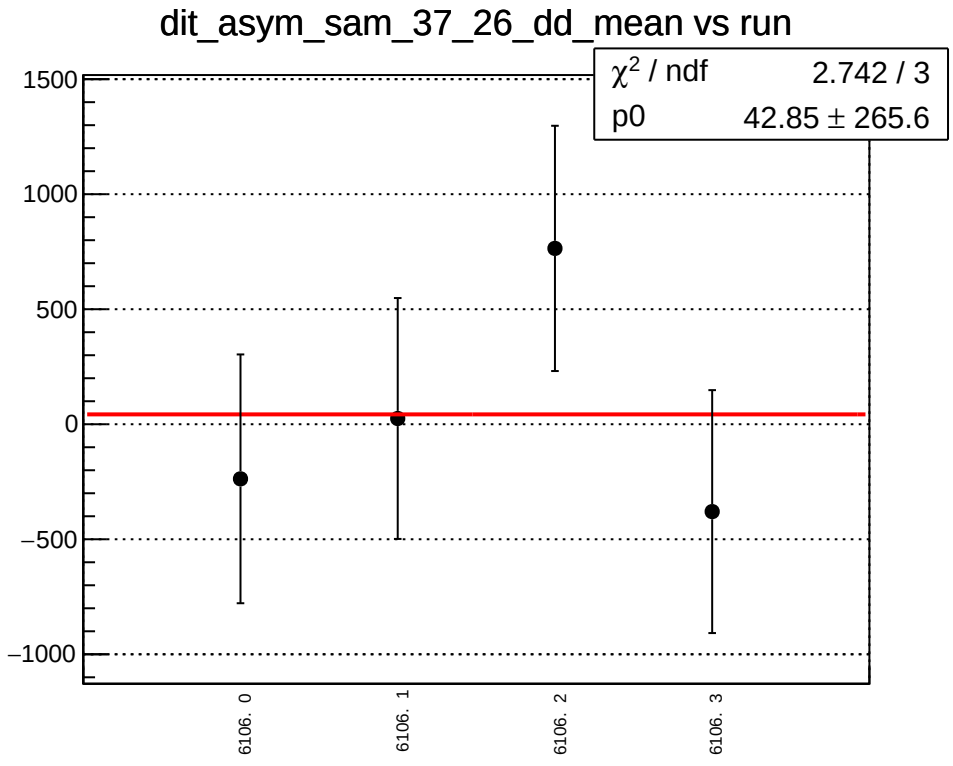

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 147.5 / 3
p0 72.77 ± 0.2697
80
78
76
74
72
70
68
6106. 0
6106. 1
6106. 2
6106. 3

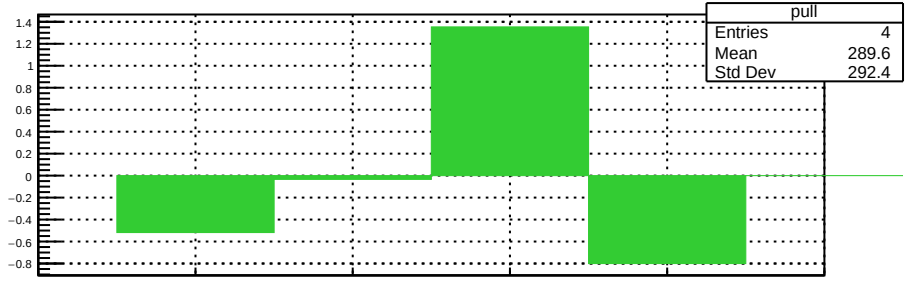

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

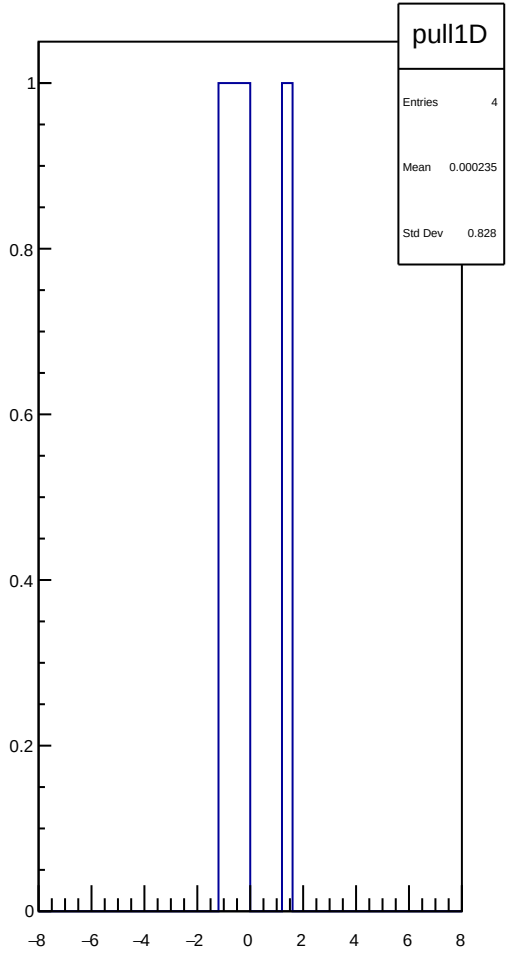

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

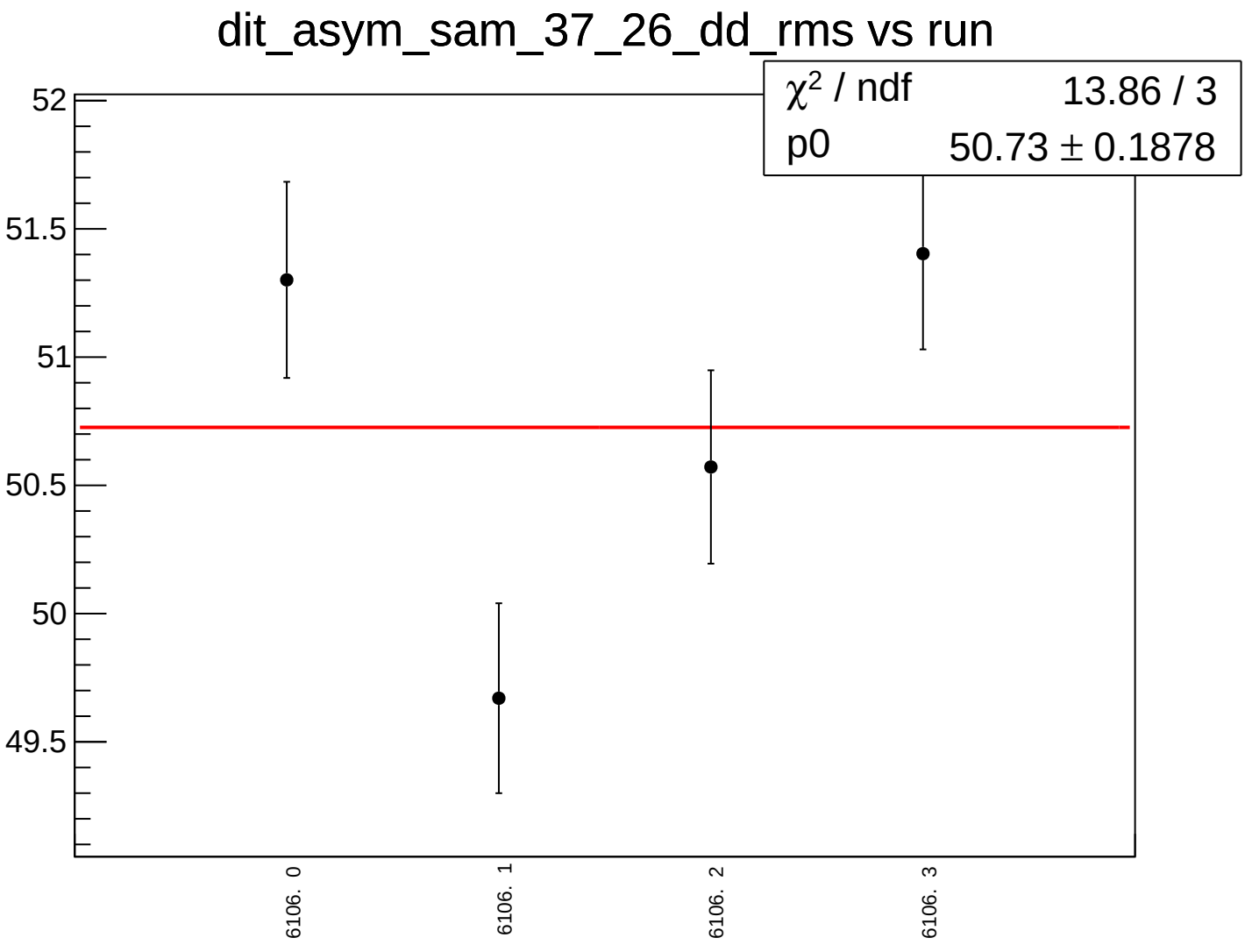

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

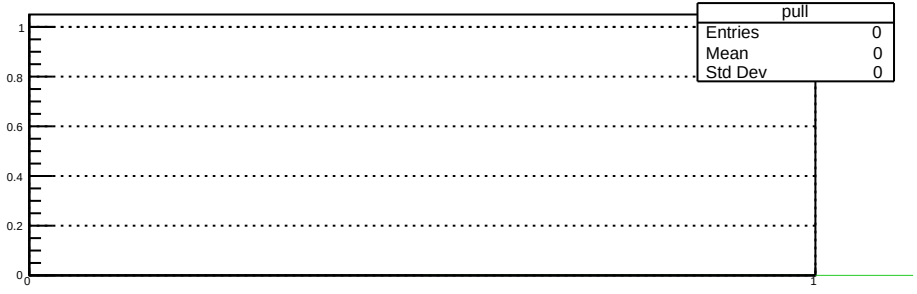

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

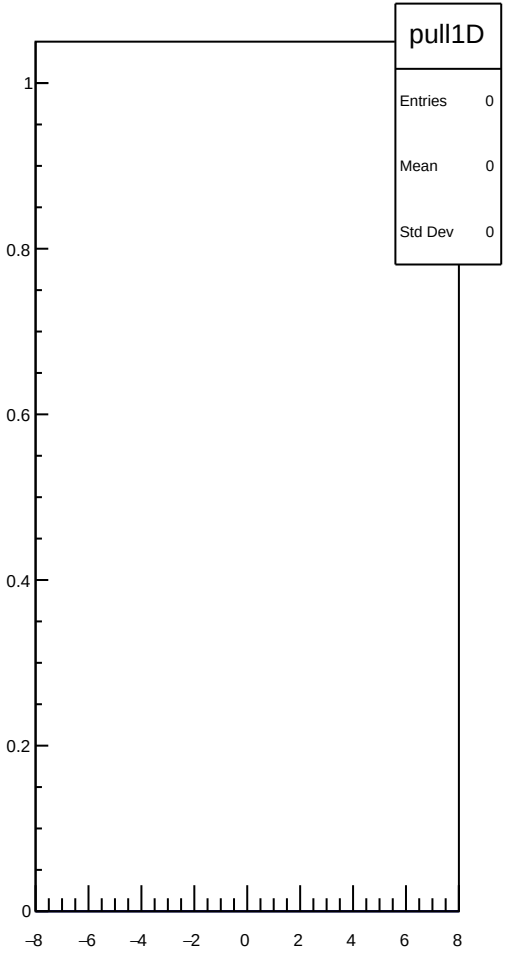

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 2.742 / 3
p0 42.85 ± 265.6
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3

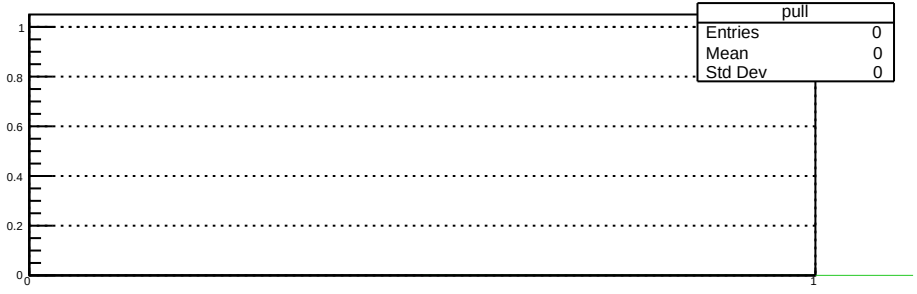

pull
Entries 4
Mean 289.6
Std Dev 292.4
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

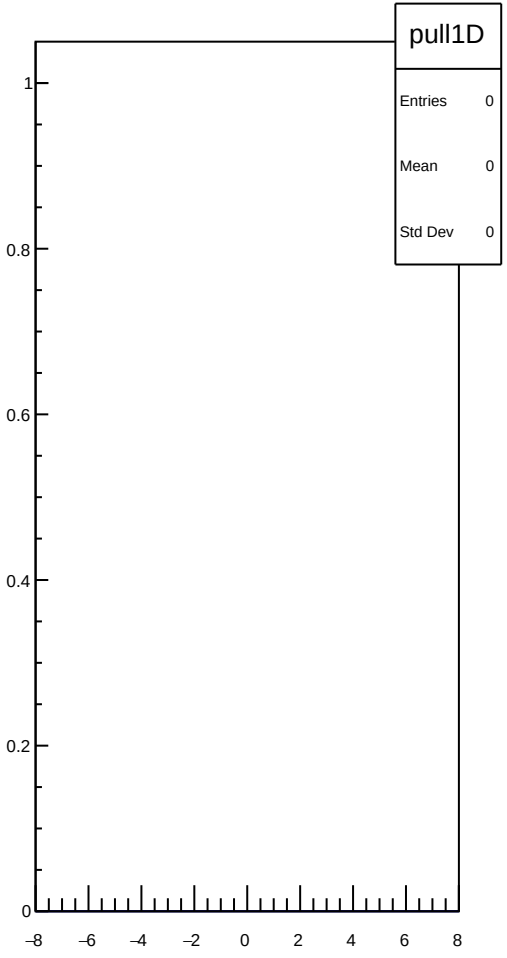

pull1D
Entries 4
Mean 0.000235
Std Dev 0.828
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

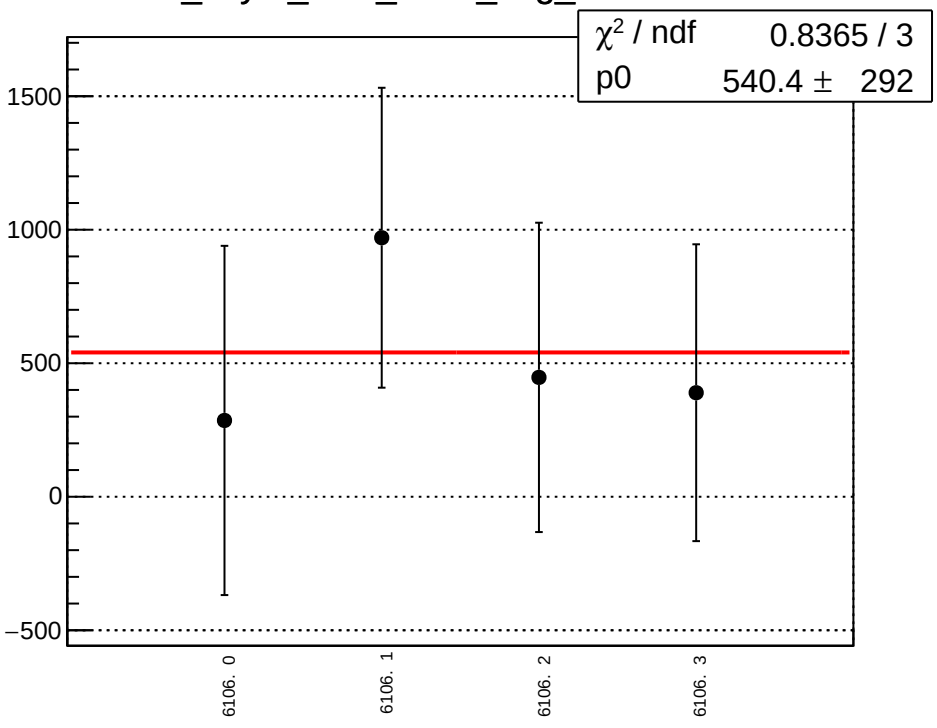

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 13.86 / 3
p0 50.73 ± 0.1878
52
51.5
51
50.5
50
49.5
6106. 0
6106. 1
6106. 2
6106. 3

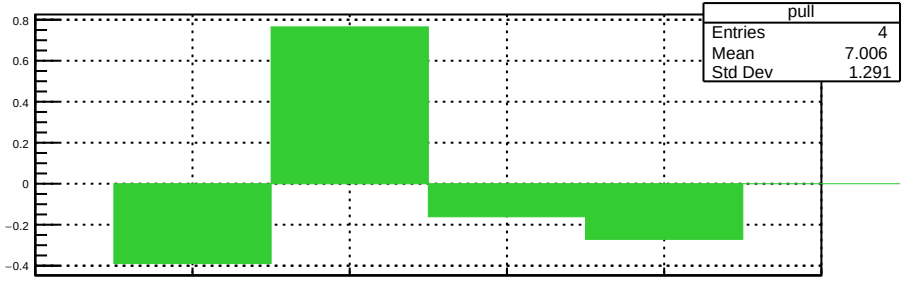

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

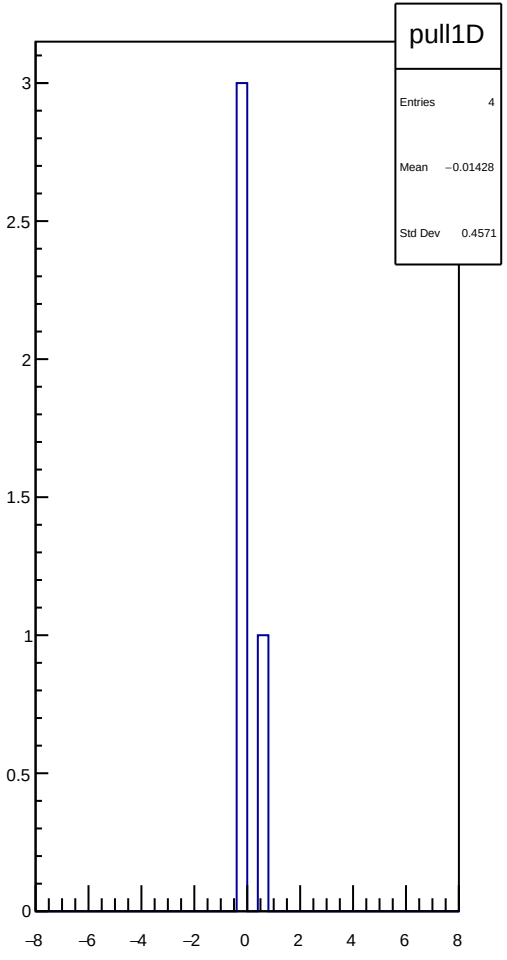

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

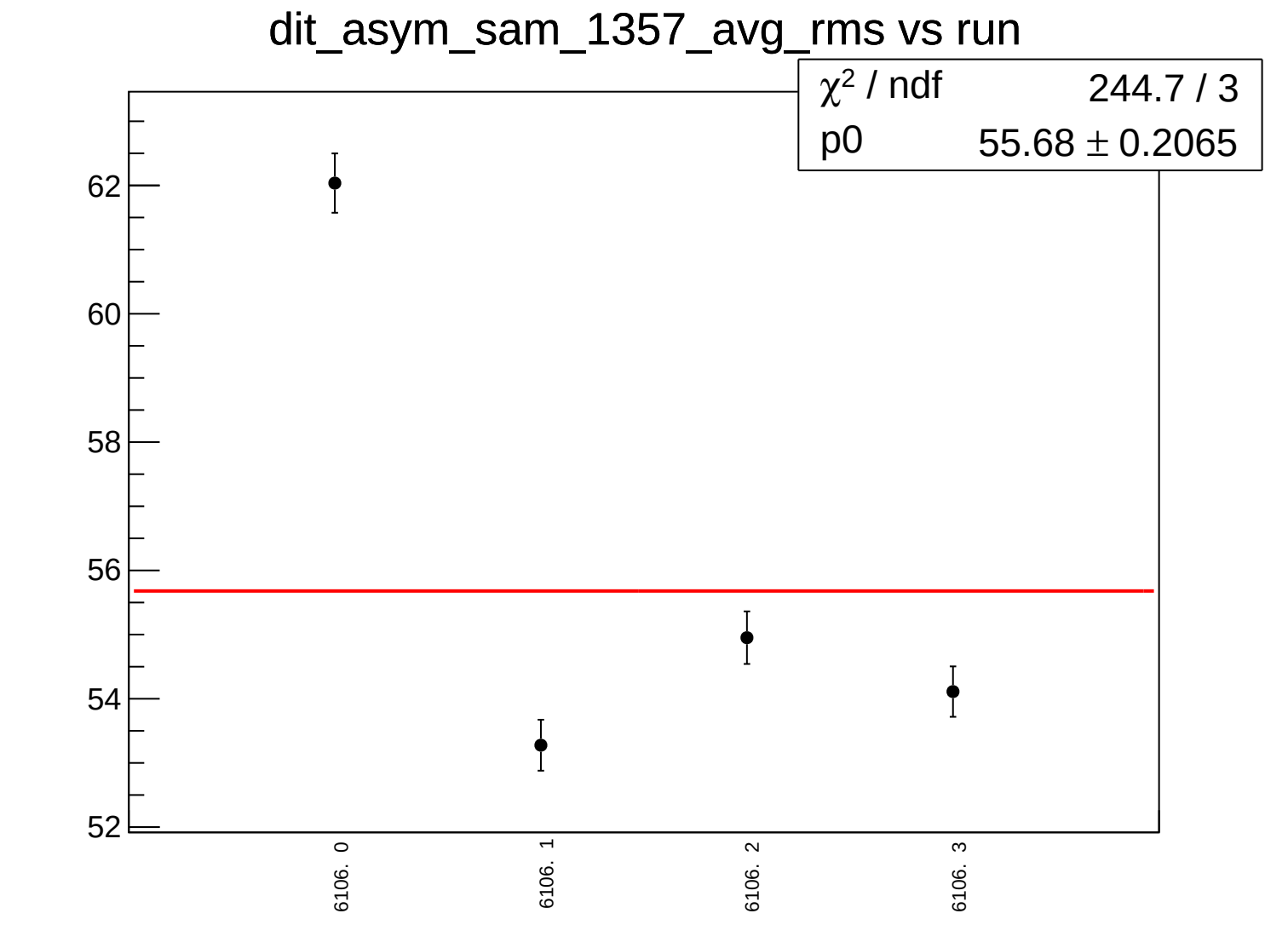

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

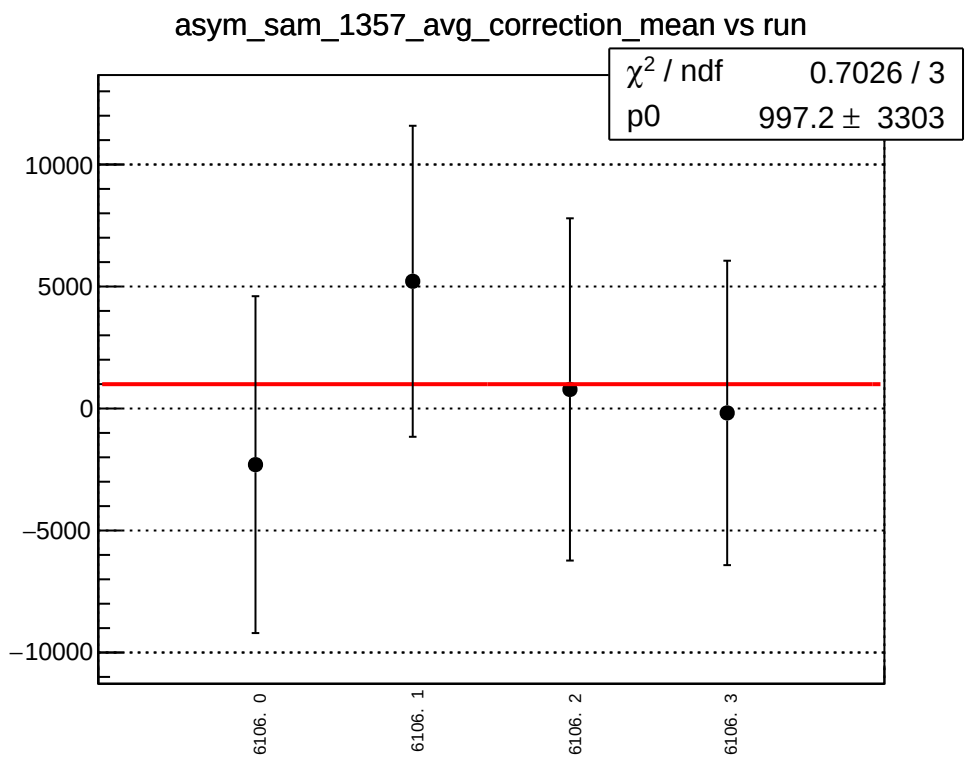

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

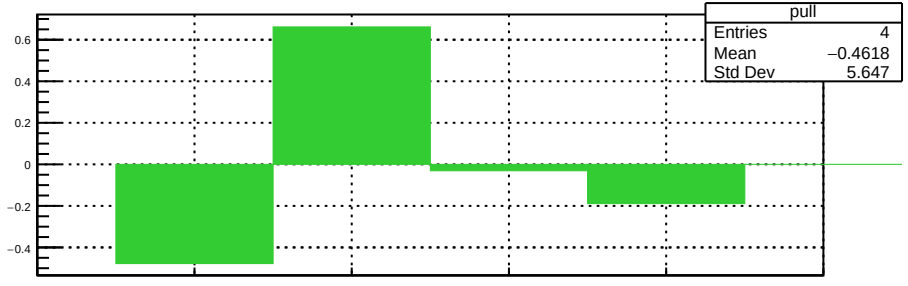

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 0.8365 / 3
p0 540.4 ± 292
1500
1000
500
0
−500
6106. 0
6106. 1
6106. 2
6106. 3

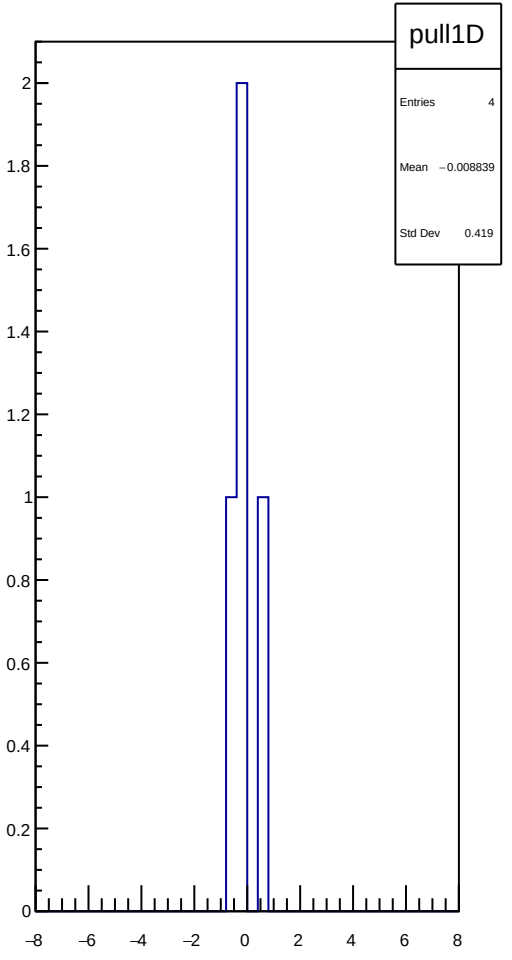

pull
Entries 4
Mean 7.006
Std Dev 1.291
0.8
0.6
0.4
0.2
0
−0.2
−0.4

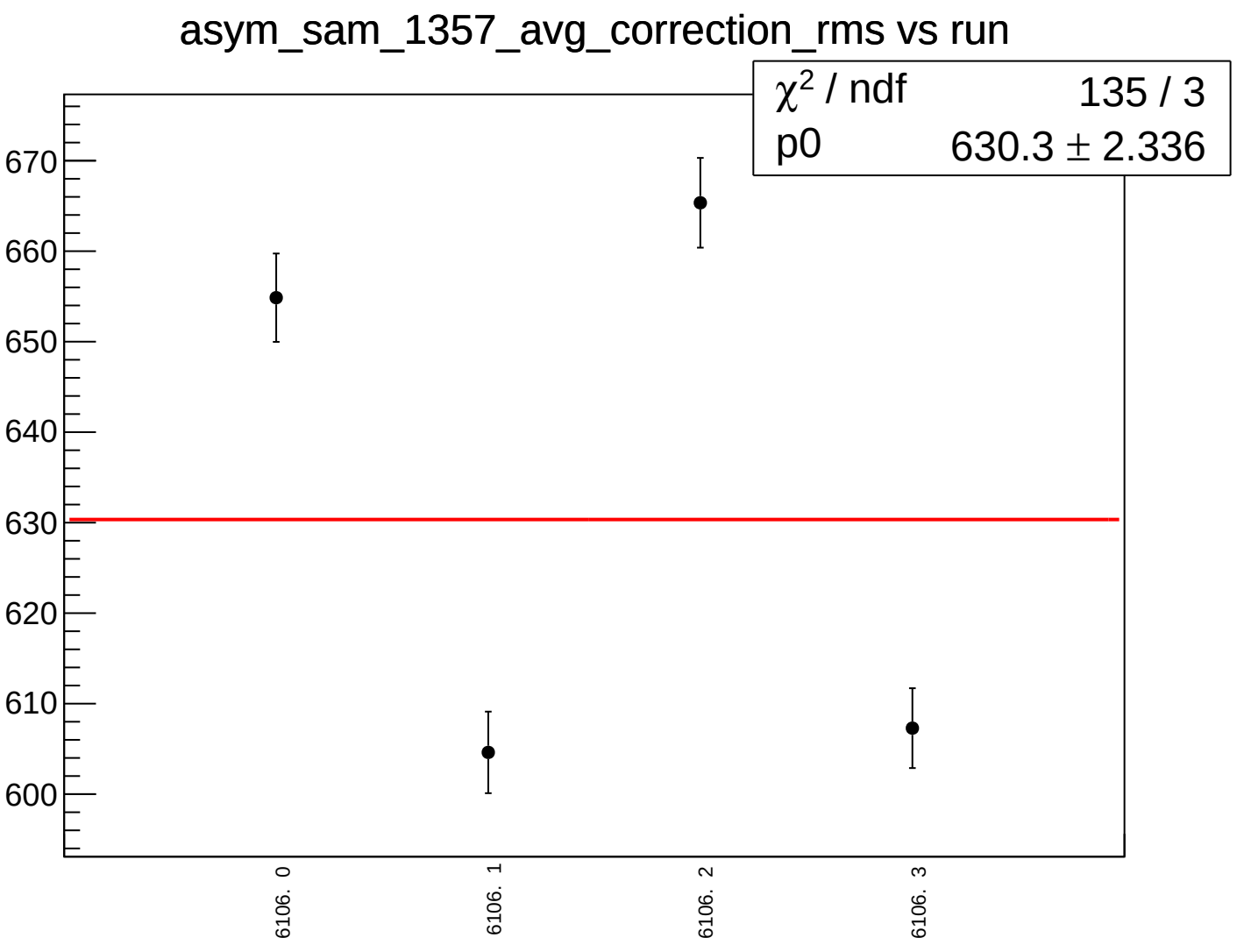

pull1D
Entries 4
Mean −0.01428
Std Dev 0.4571
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

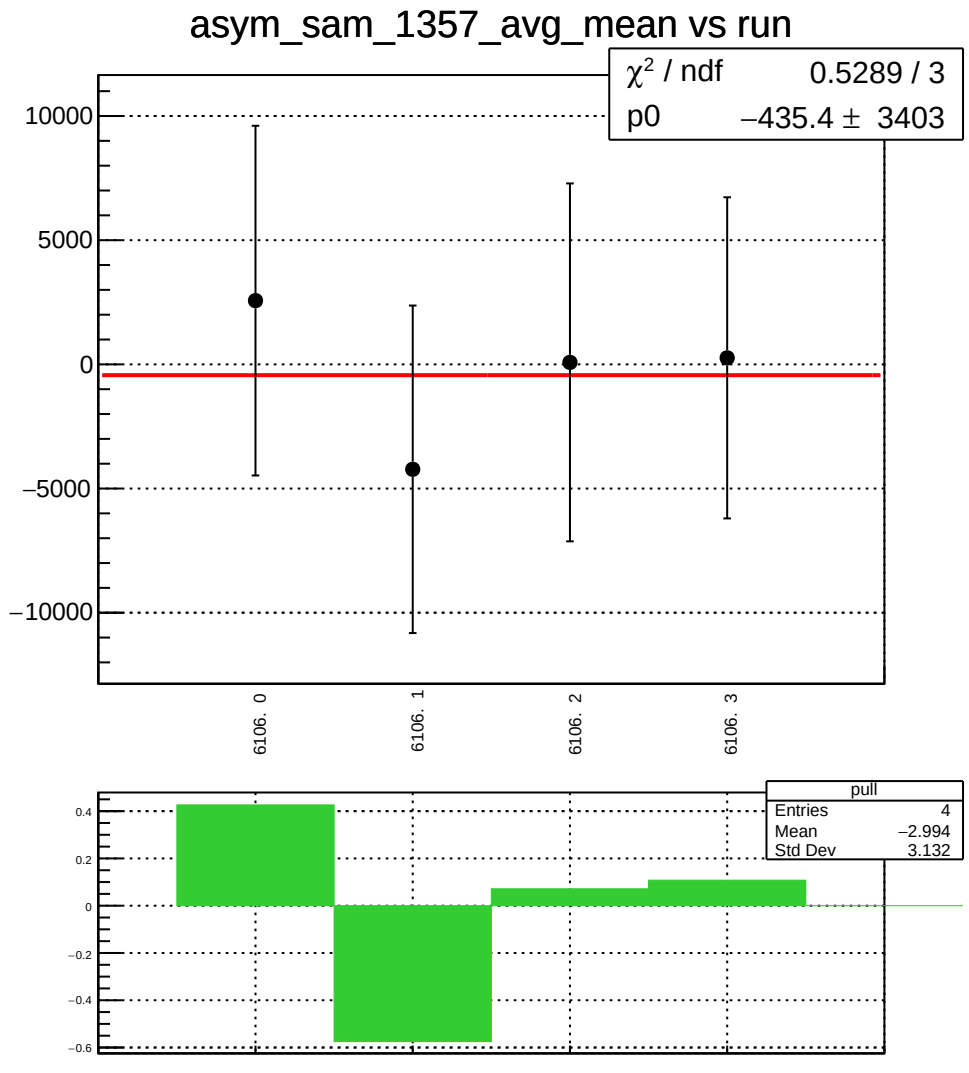

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 244.7 / 3
p0 55.68 ± 0.2065
62
60
58
56
54
52
6106. 0
6106. 1
6106. 2
6106. 3

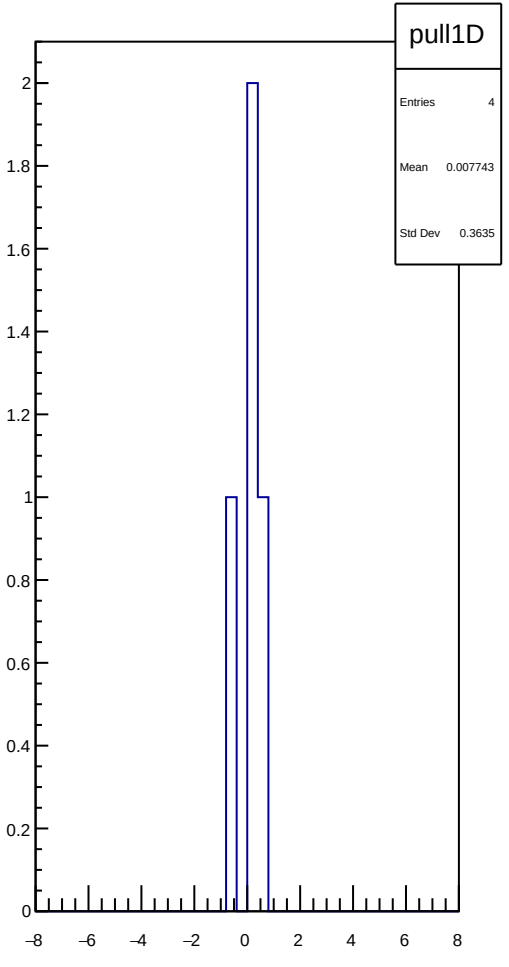

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 0.7026 / 3
p0 997.2 ± 3303
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3

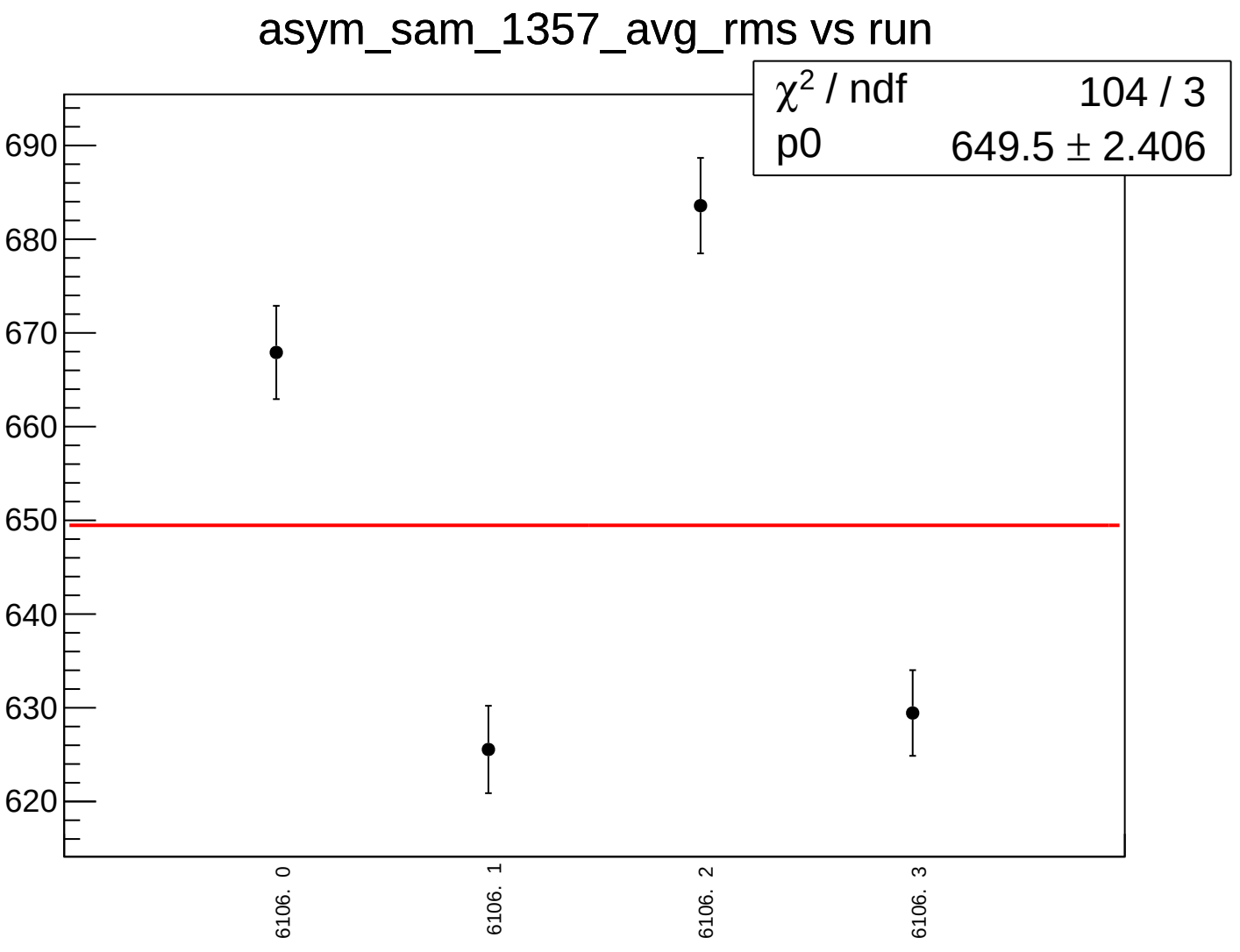

pull
Entries 4
Mean −0.4618
Std Dev 5.647
0.6
0.4
0.2
0
−0.2
−0.4

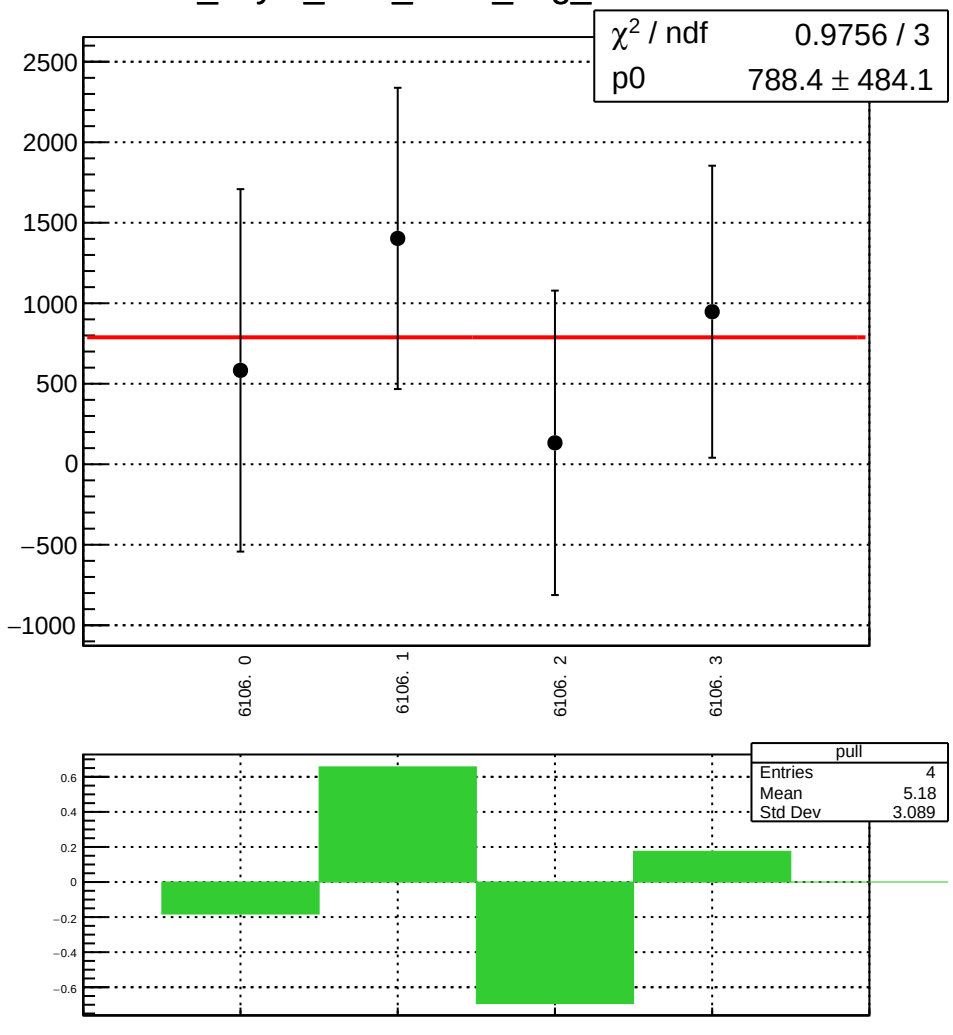

pull1D
Entries 4
Mean −0.008839
Std Dev 0.419
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

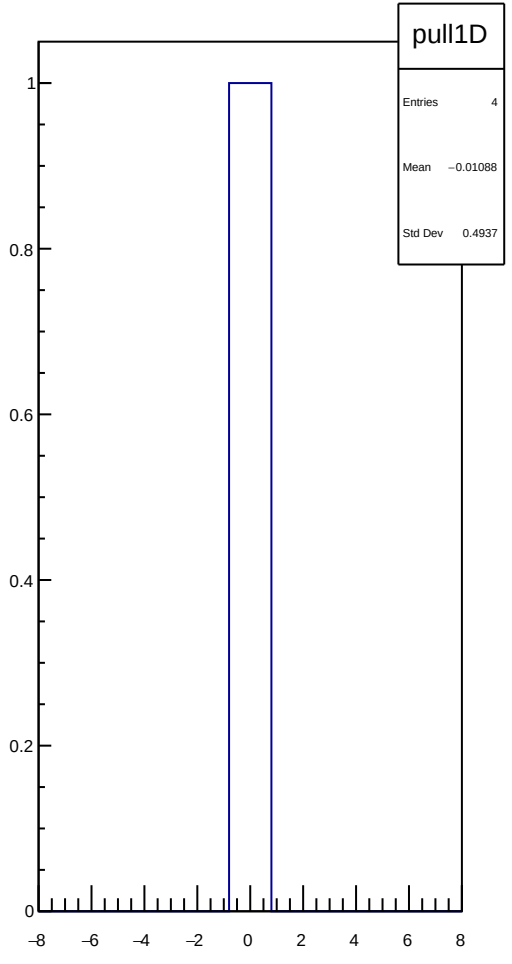

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 135 / 3
p0 630.3 ± 2.336
670
660
650
640
630
620
610
600
6106. 0
6106. 1
6106. 2
6106. 3

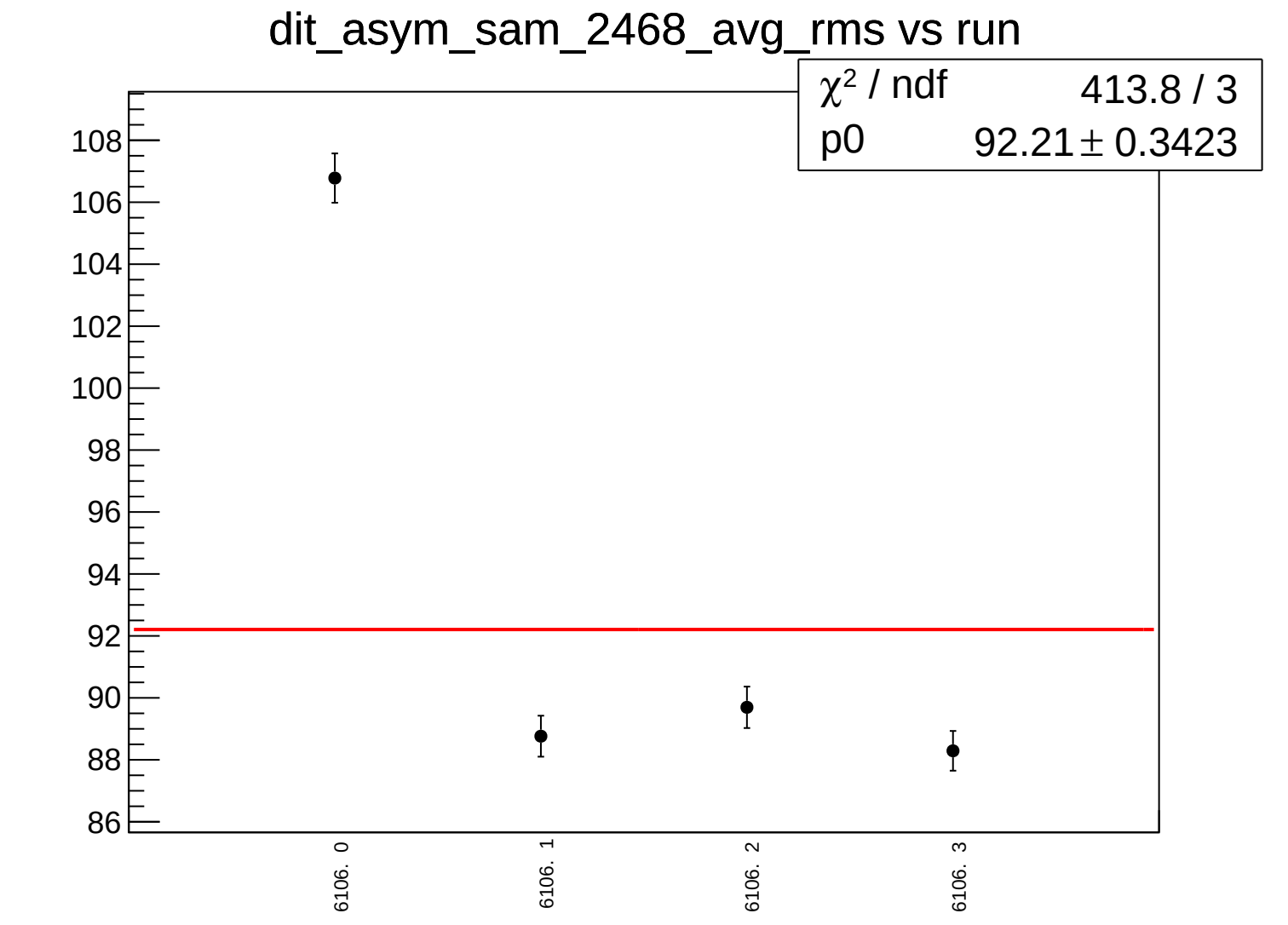

asym_sam_1357_avg_mean vs run
χ² / ndf 0.5289 / 3
p0 −435.4 ± 3403
10000
5000
0
−5000
−10000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.994
Std Dev 3.132
0.4
0.2
0
−0.2
−0.4
−0.6

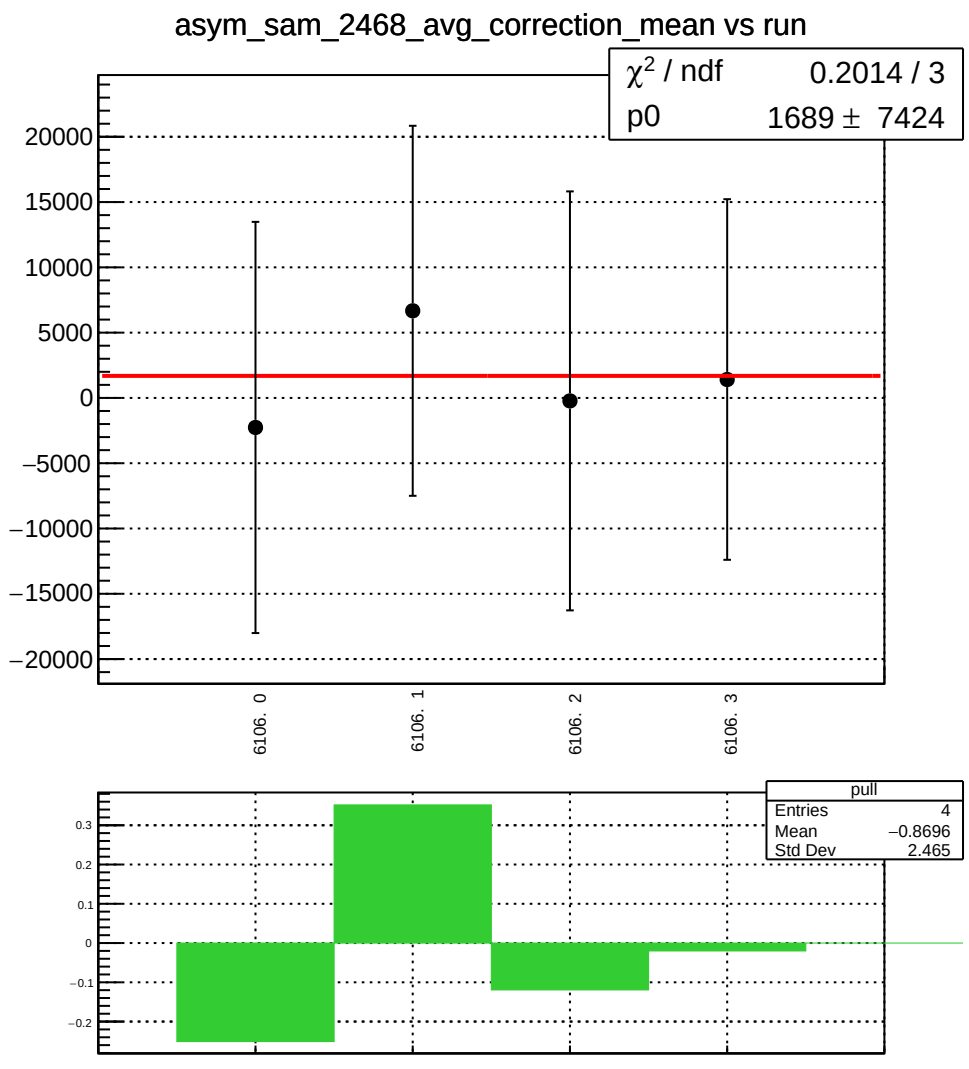

pull1D
Entries 4
Mean 0.007743
Std Dev 0.3635
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

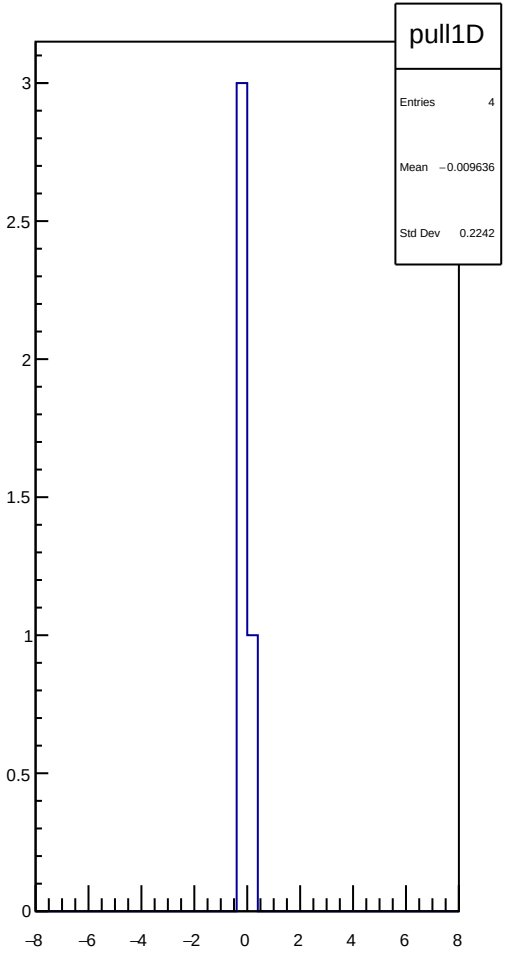

asym_sam_1357_avg_rms vs run
χ² / ndf 104 / 3
p0 649.5 ± 2.406
690
680
670
660
650
640
630
620
6106. 0
6106. 1
6106. 2
6106. 3

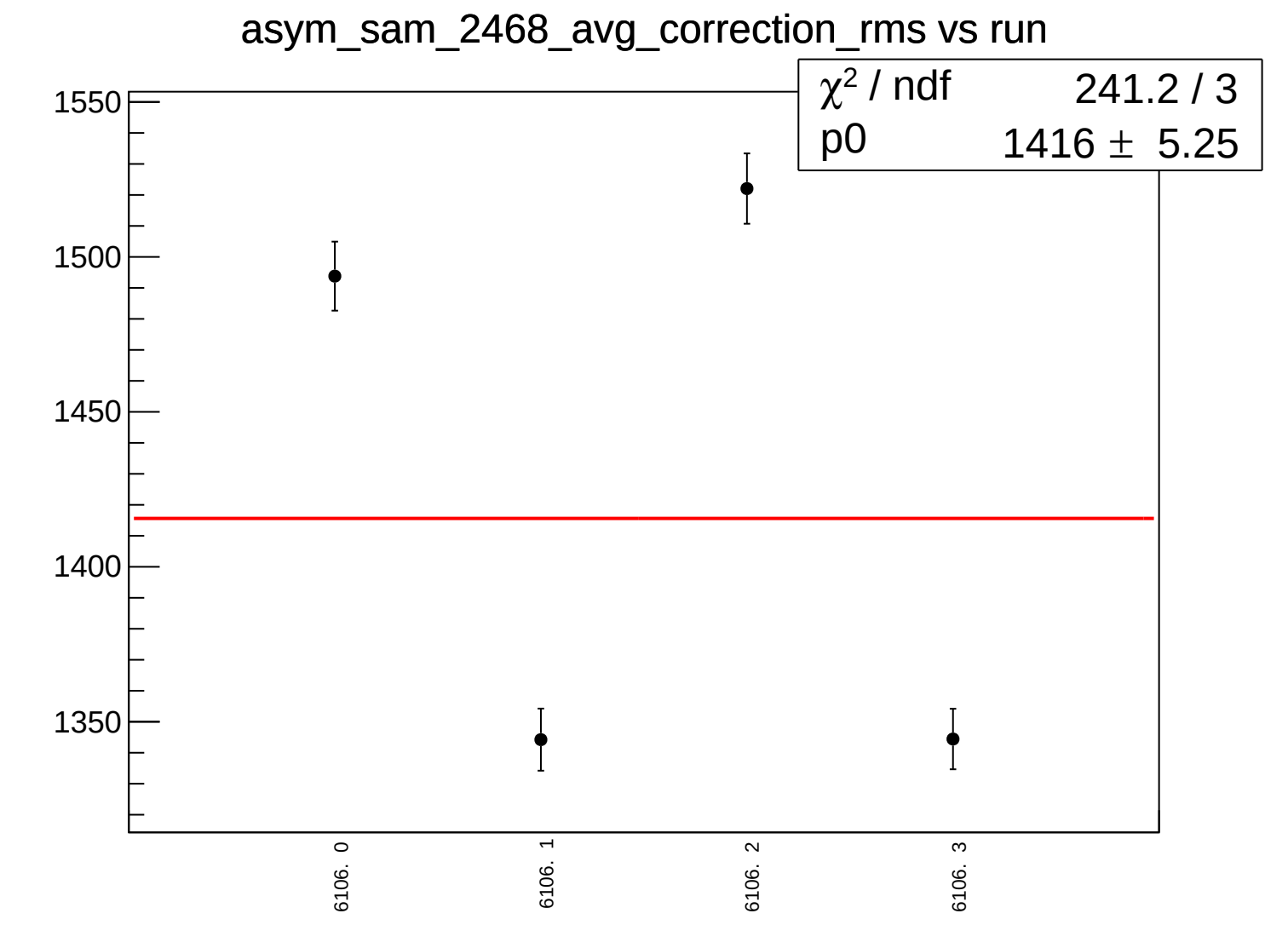

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 0.9756 / 3
p0 788.4 ± 484.1
2500
2000
1500
1000
500
0
−500
−1000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 5.18
Std Dev 3.089
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

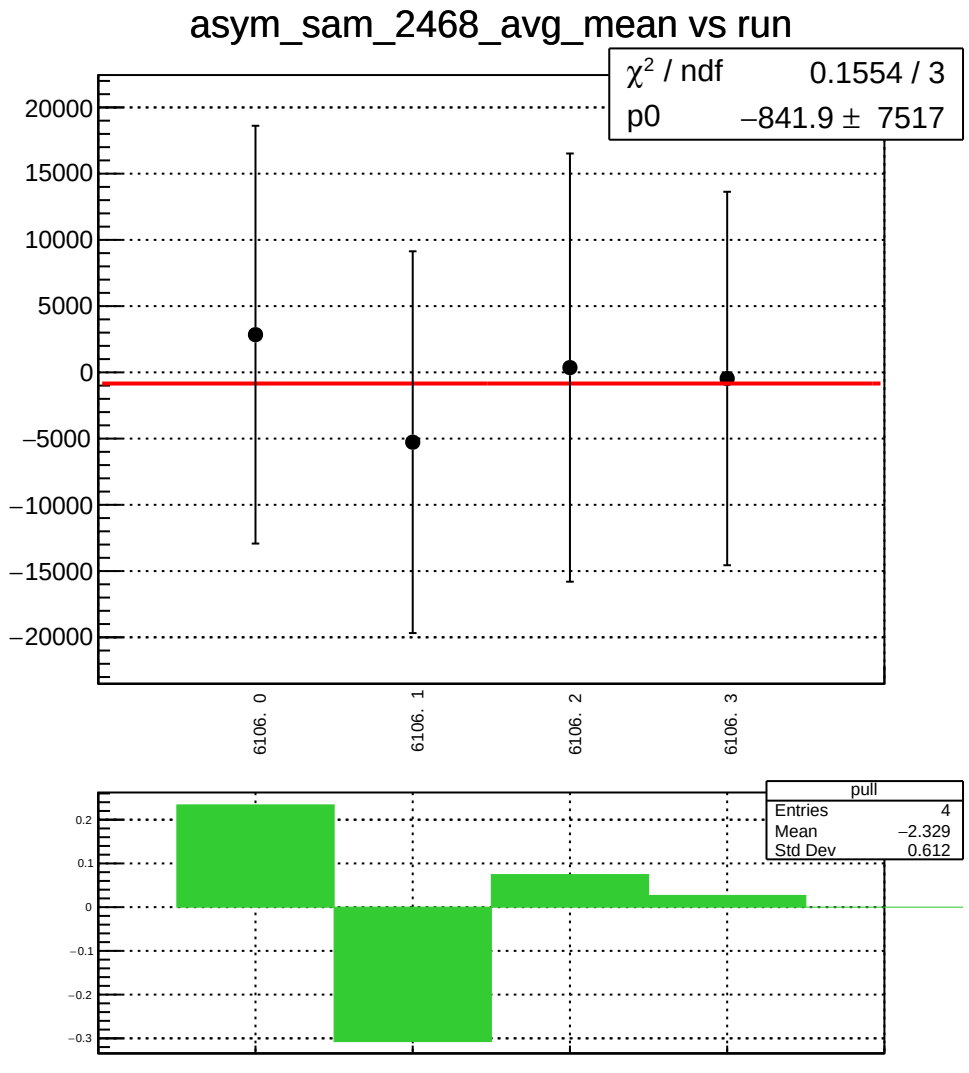

pull1D
Entries 4
Mean −0.01088
Std Dev 0.4937
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

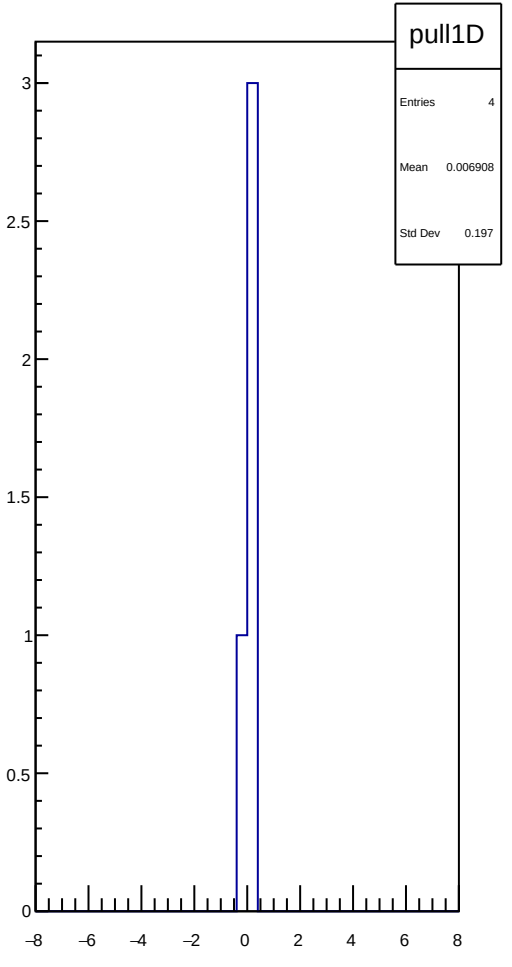

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 413.8 / 3
p0 92.21 ± 0.3423
108
106
104
102
100
98
96
94
92
90
88
86
6106. 0
6106. 1
6106. 2
6106. 3

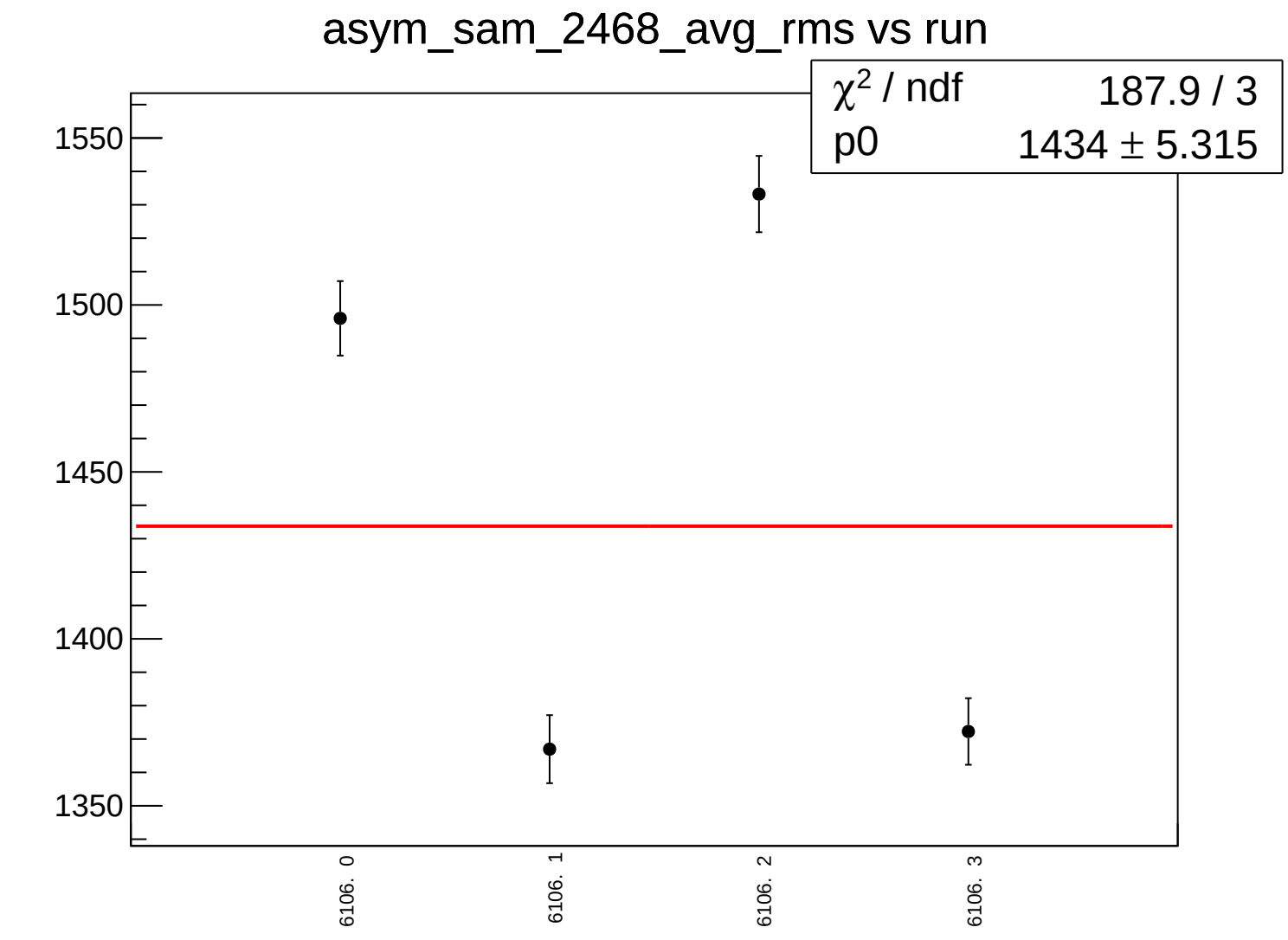

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 0.2014 / 3
p0 1689 ± 7424
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −0.8696
Std Dev 2.465
0.3
0.2
0.1
0
−0.1
−0.2

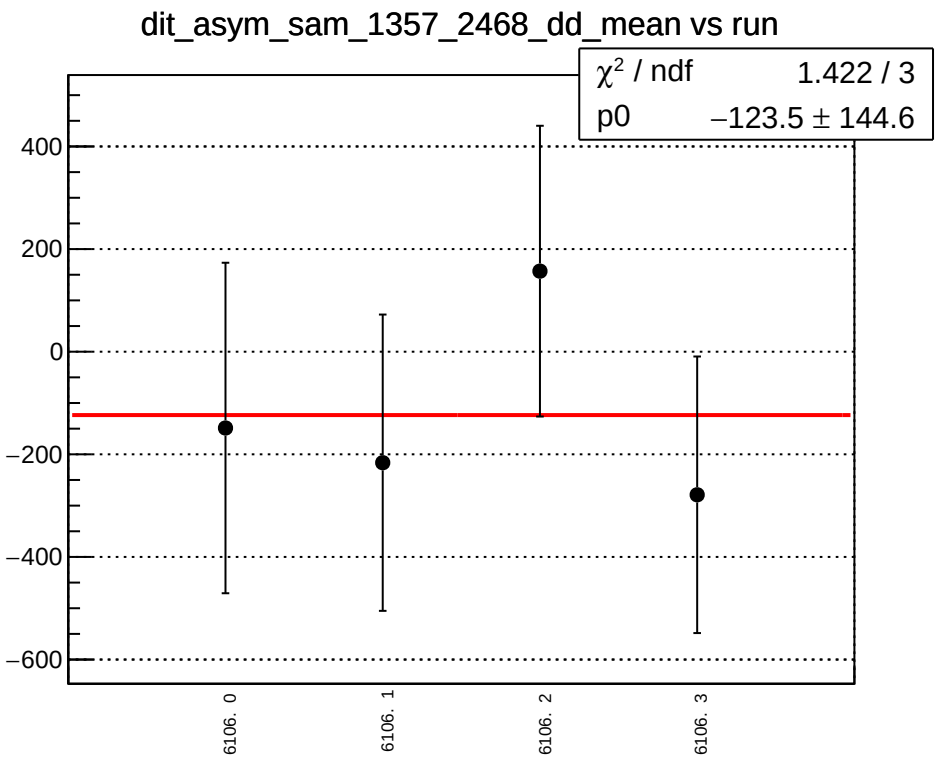

pull1D
Entries 4
Mean −0.009636
Std Dev 0.2242
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

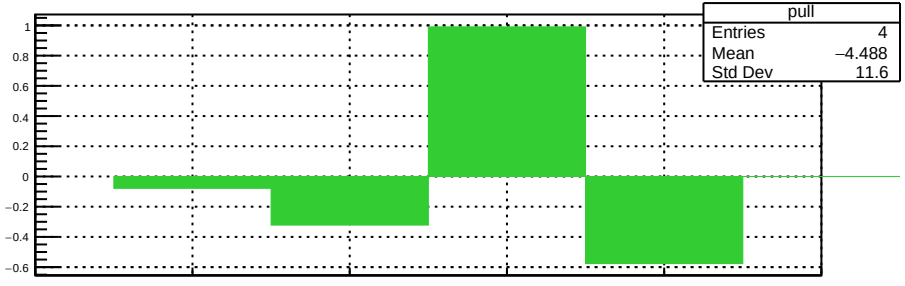

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 241.2 / 3
p0 1416 ± 5.25
1550
1500
1450
1400
1350
6106. 0
6106. 1
6106. 2
6106. 3

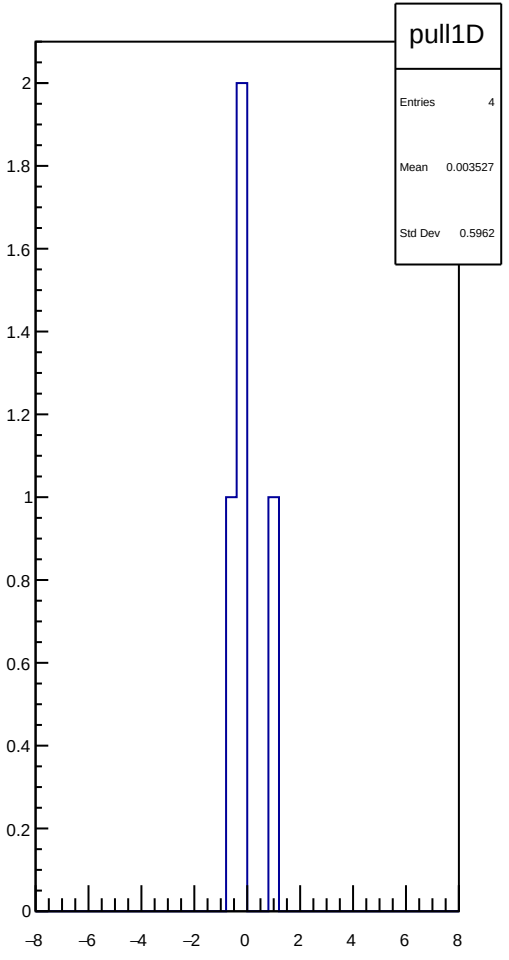

asym_sam_2468_avg_mean vs run
χ² / ndf 0.1554 / 3
p0 −841.9 ± 7517
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.329
Std Dev 0.612
0.2
0.1
0
−0.1
−0.2
−0.3

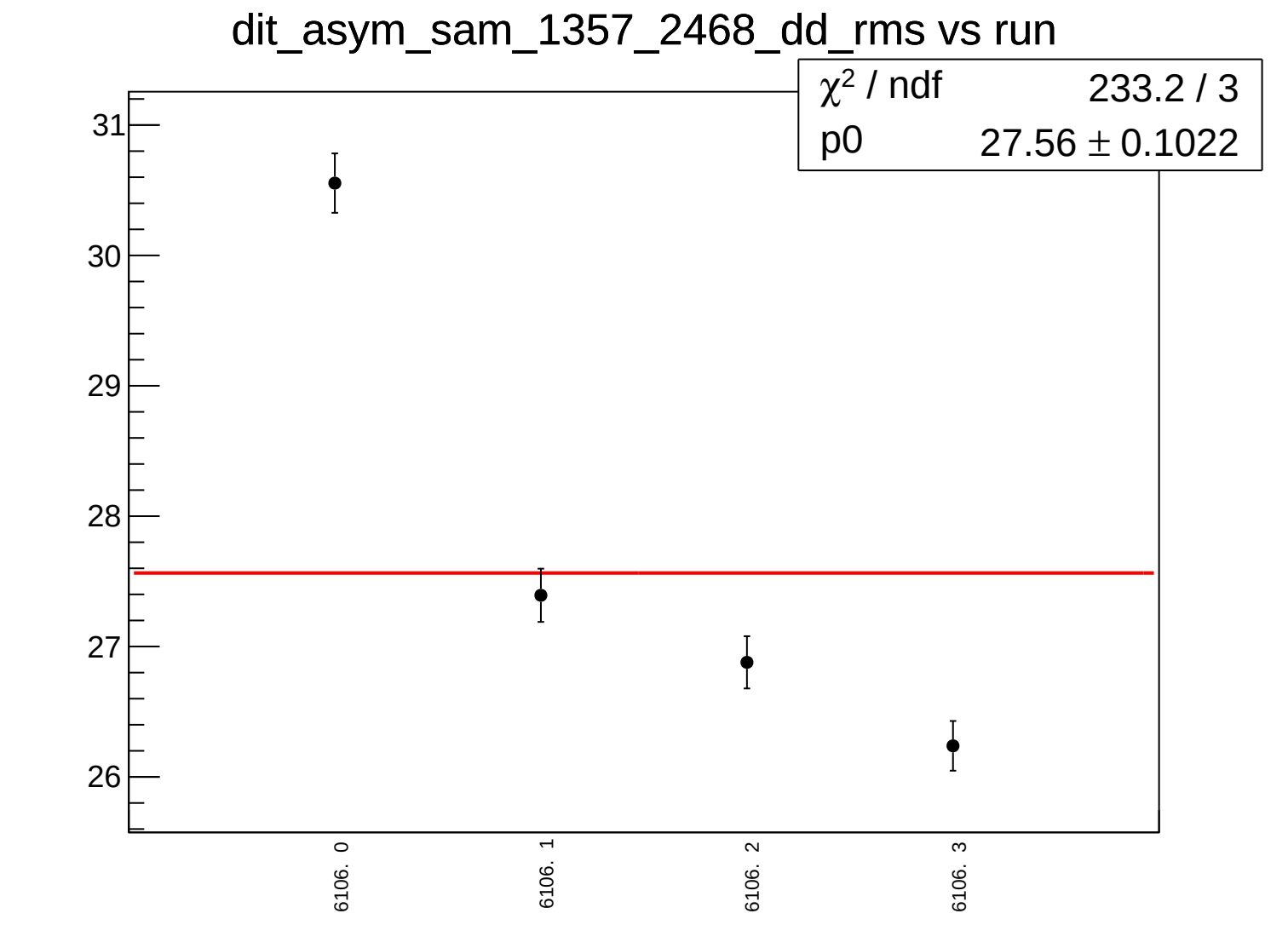

pull1D
Entries 4
Mean 0.006908
Std Dev 0.197
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

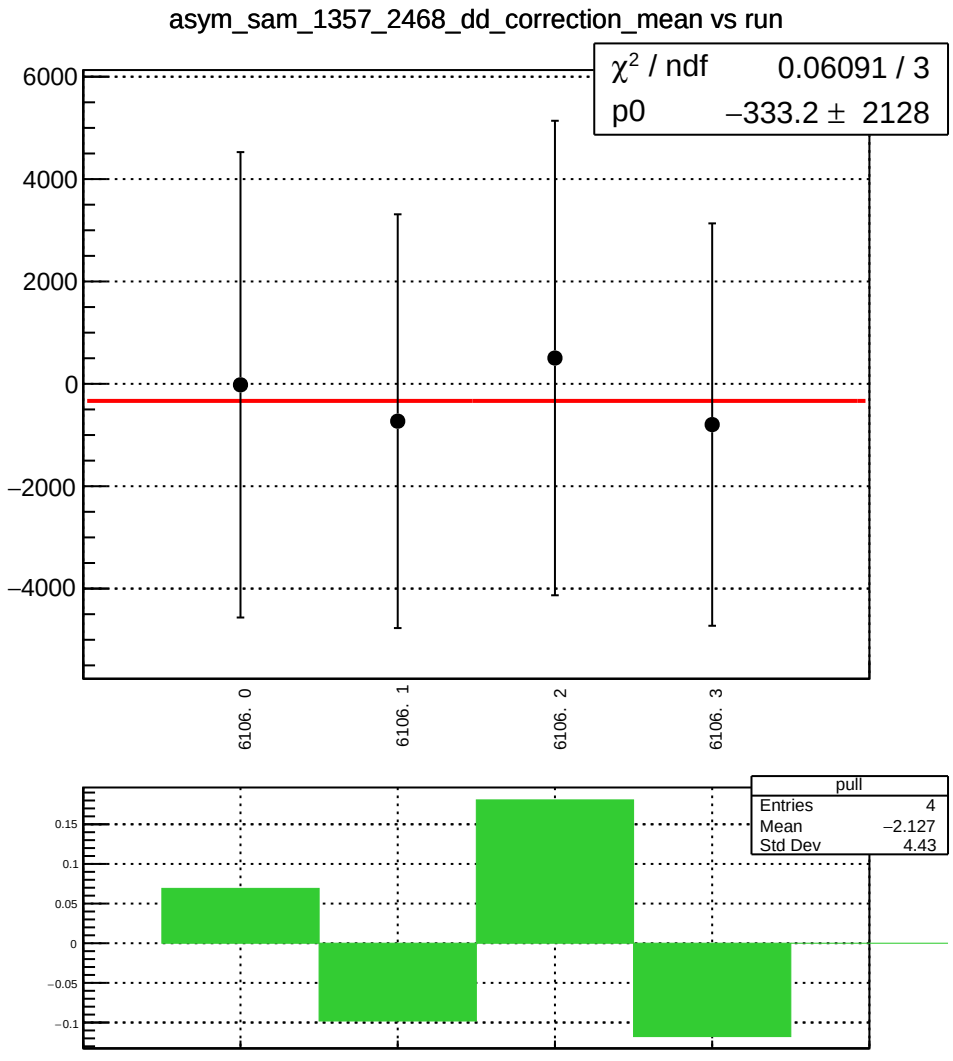

asym_sam_2468_avg_rms vs run
χ² / ndf 187.9 / 3
p0 1434 ± 5.315
1550
1500
1450
1400
1350
6106. 0
6106. 1
6106. 2
6106. 3

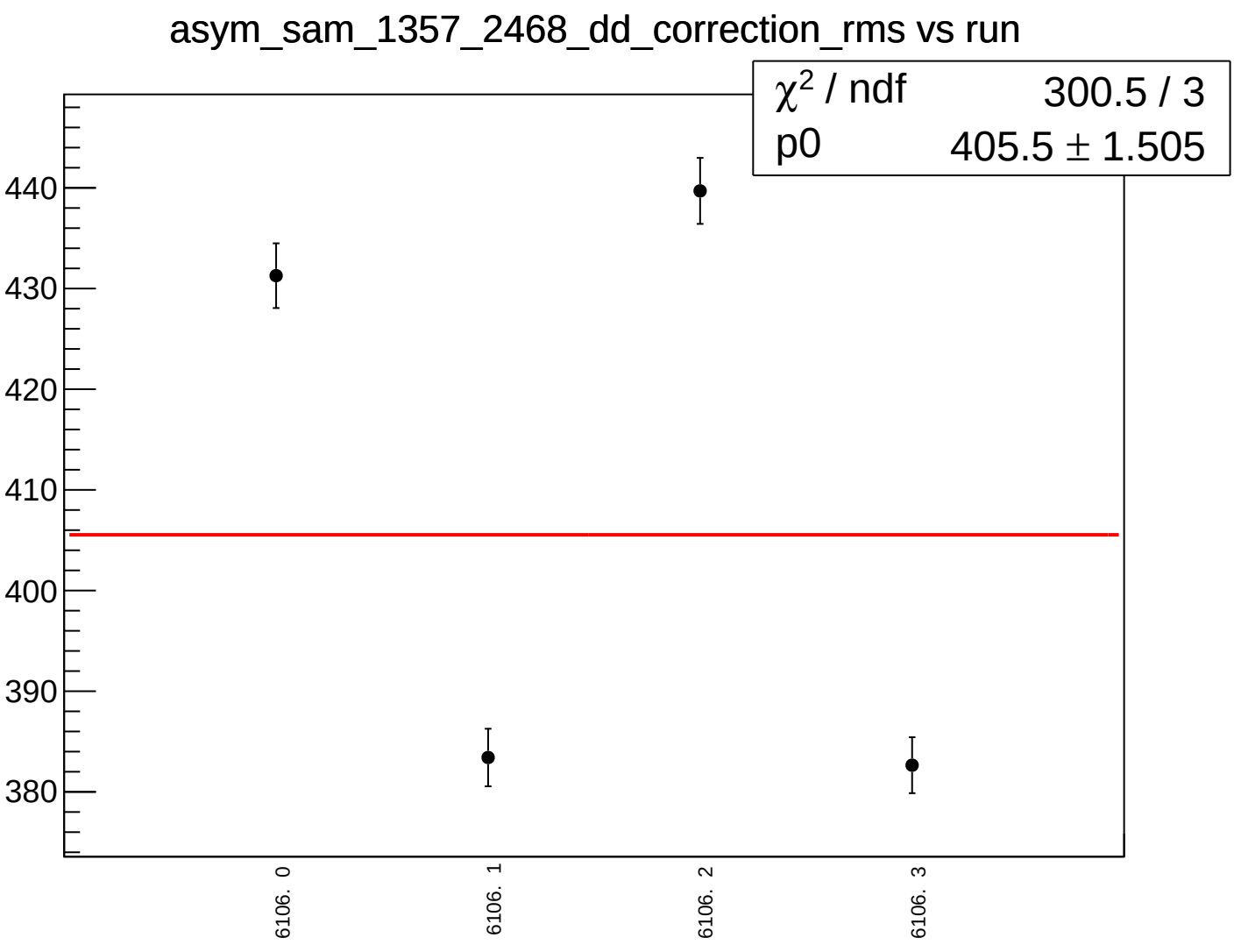

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 1.422 / 3
p0 −123.5 ± 144.6
400
200
0
−200
−400
−600
6106. 0
6106. 1
6106. 2
6106. 3

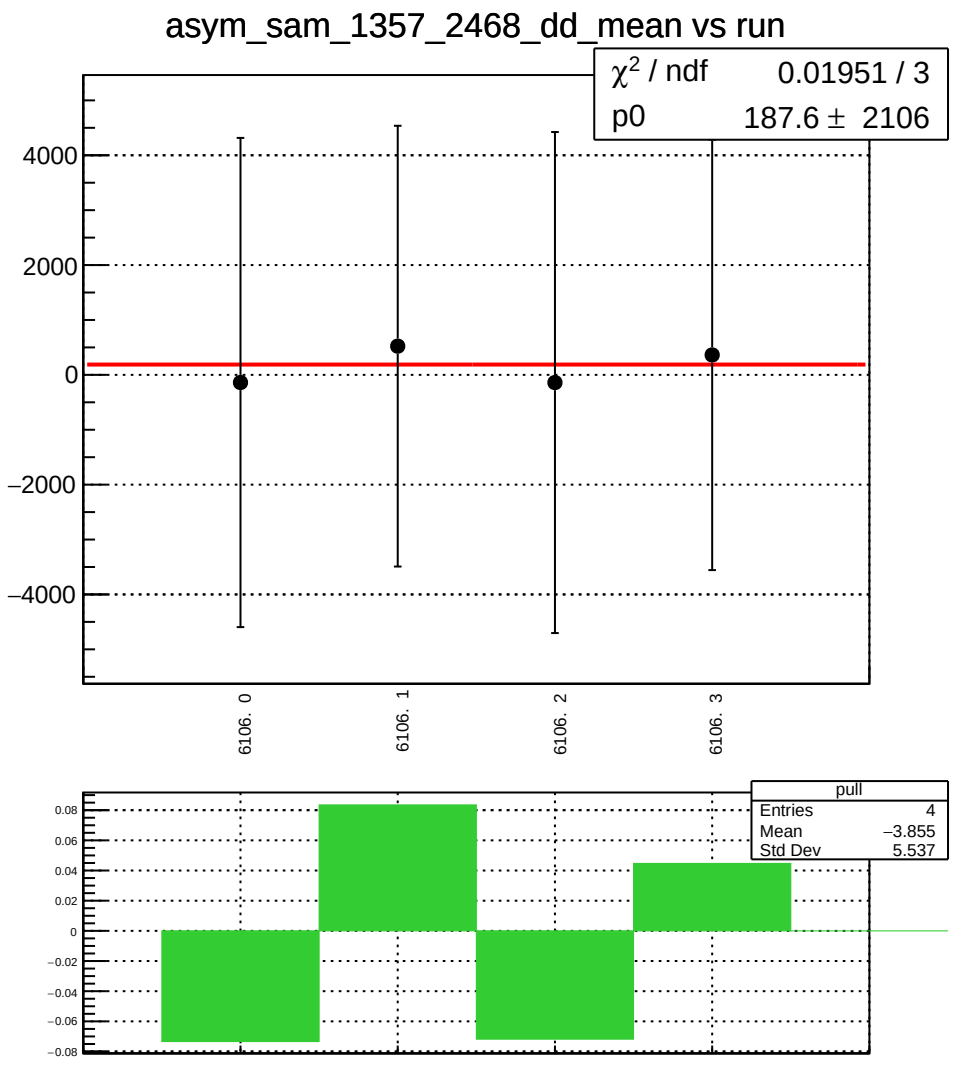

pull
Entries 4
Mean −4.488
Std Dev 11.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

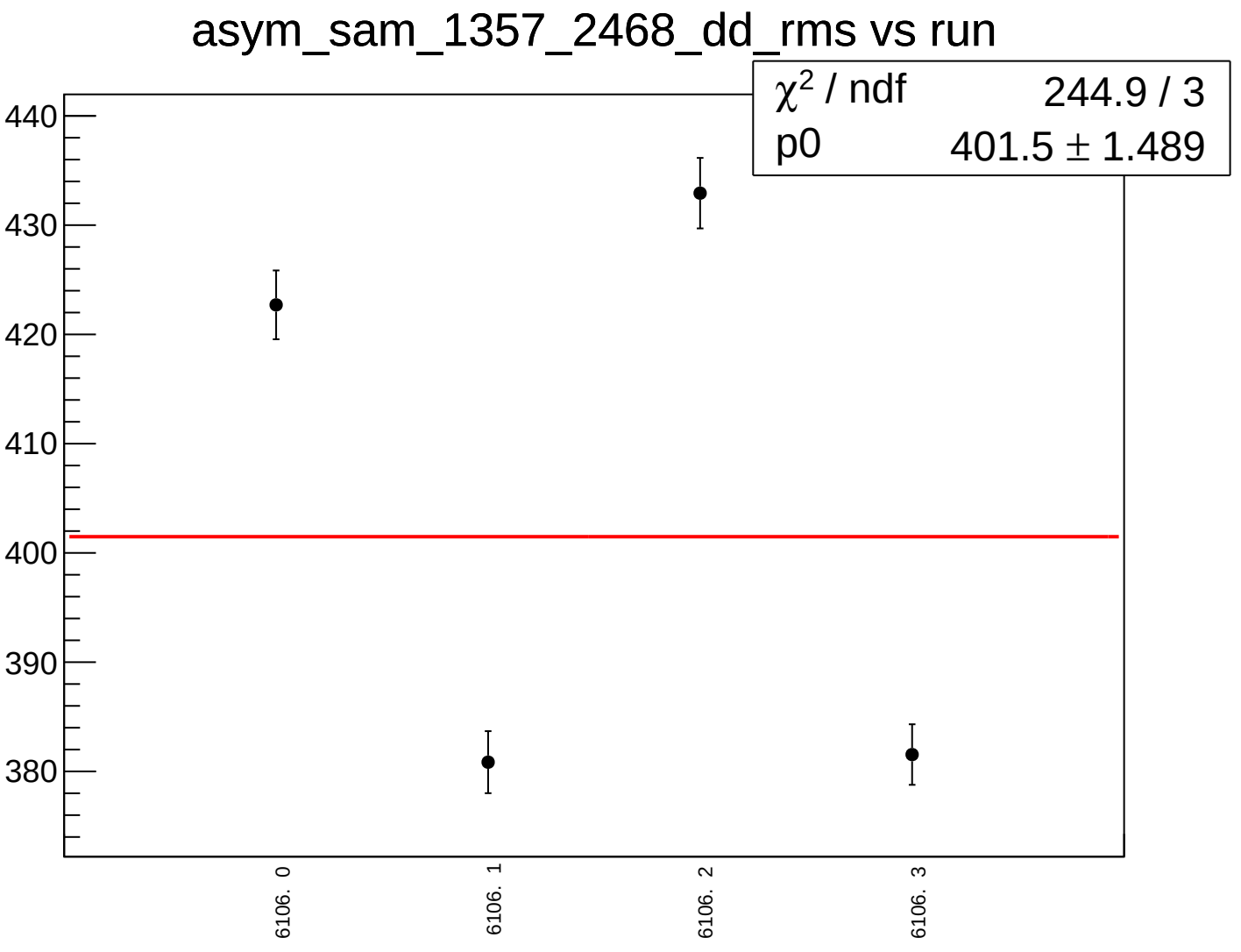

pull1D
Entries 4
Mean 0.003527
Std Dev 0.5962
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

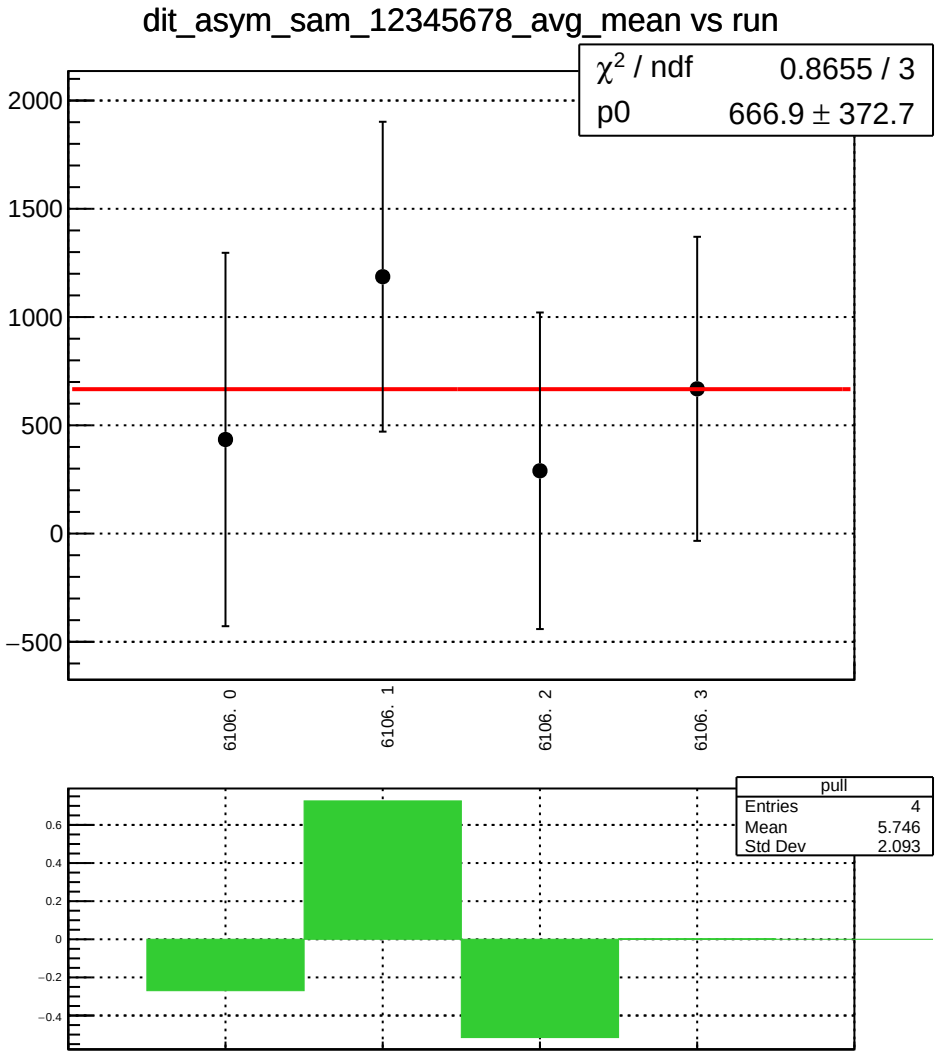

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 233.2 / 3
p0 27.56 ± 0.1022
31
30
29
28
27
26
6106. 0
6106. 1
6106. 2
6106. 3

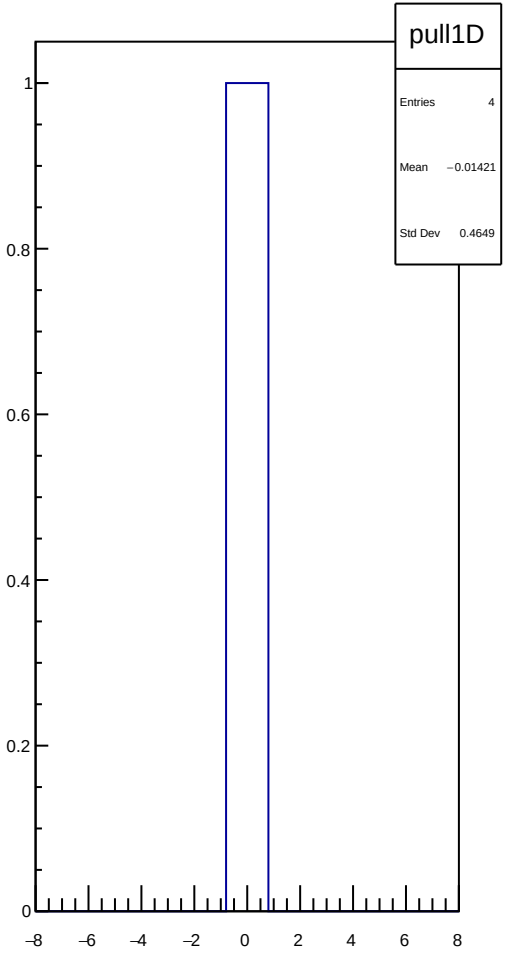

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 0.06091 / 3
p0 −333.2 ± 2128
6000
4000
2000
0
−2000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.127
Std Dev 4.43
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean 0.008534
Std Dev 0.1231
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

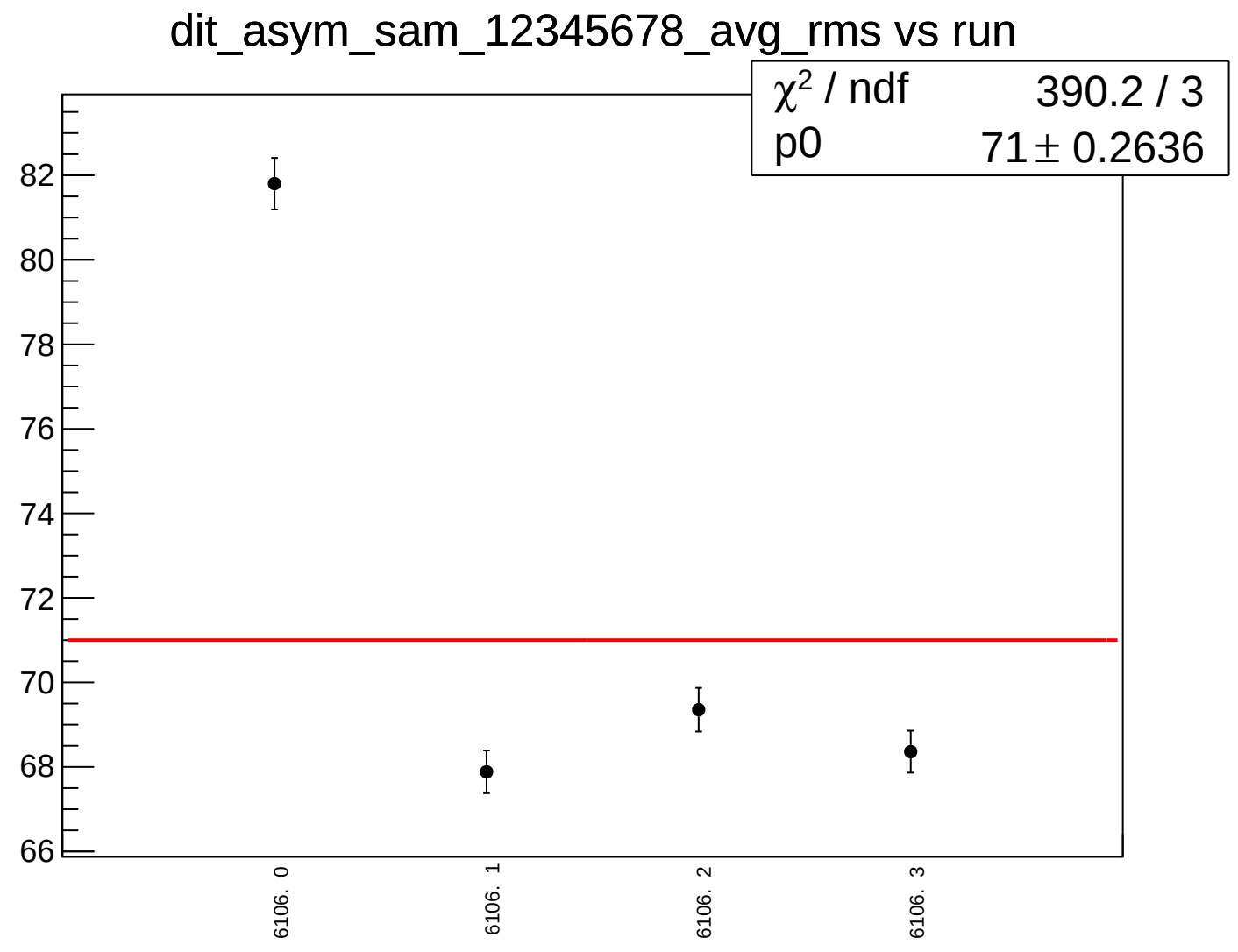

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 300.5 / 3
p0 405.5 ± 1.505
440
430
420
410
400
390
380
6106. 0
6106. 1
6106. 2
6106. 3

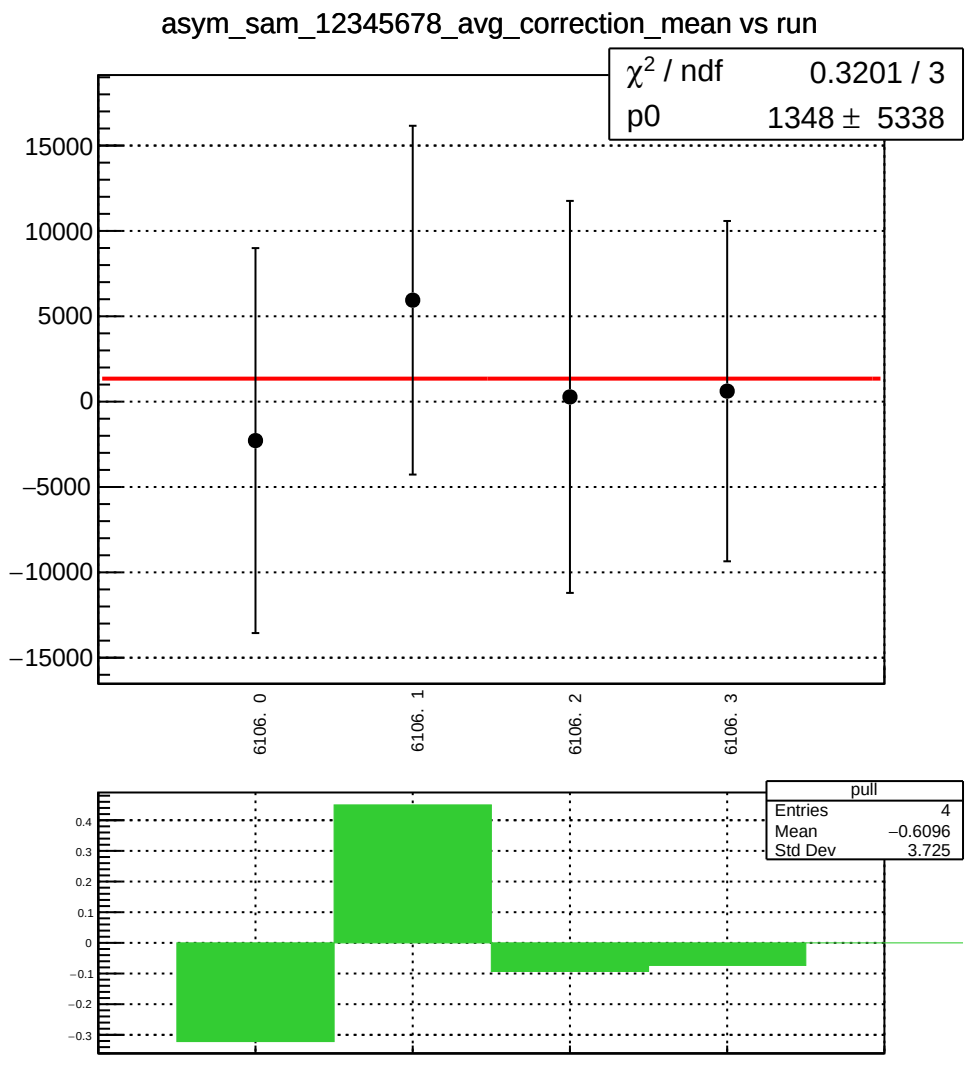

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 0.01951 / 3
p0 187.6 ± 2106
4000
2000
0
−2000
−4000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.855
Std Dev 5.537
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean −0.004248
Std Dev 0.06971
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

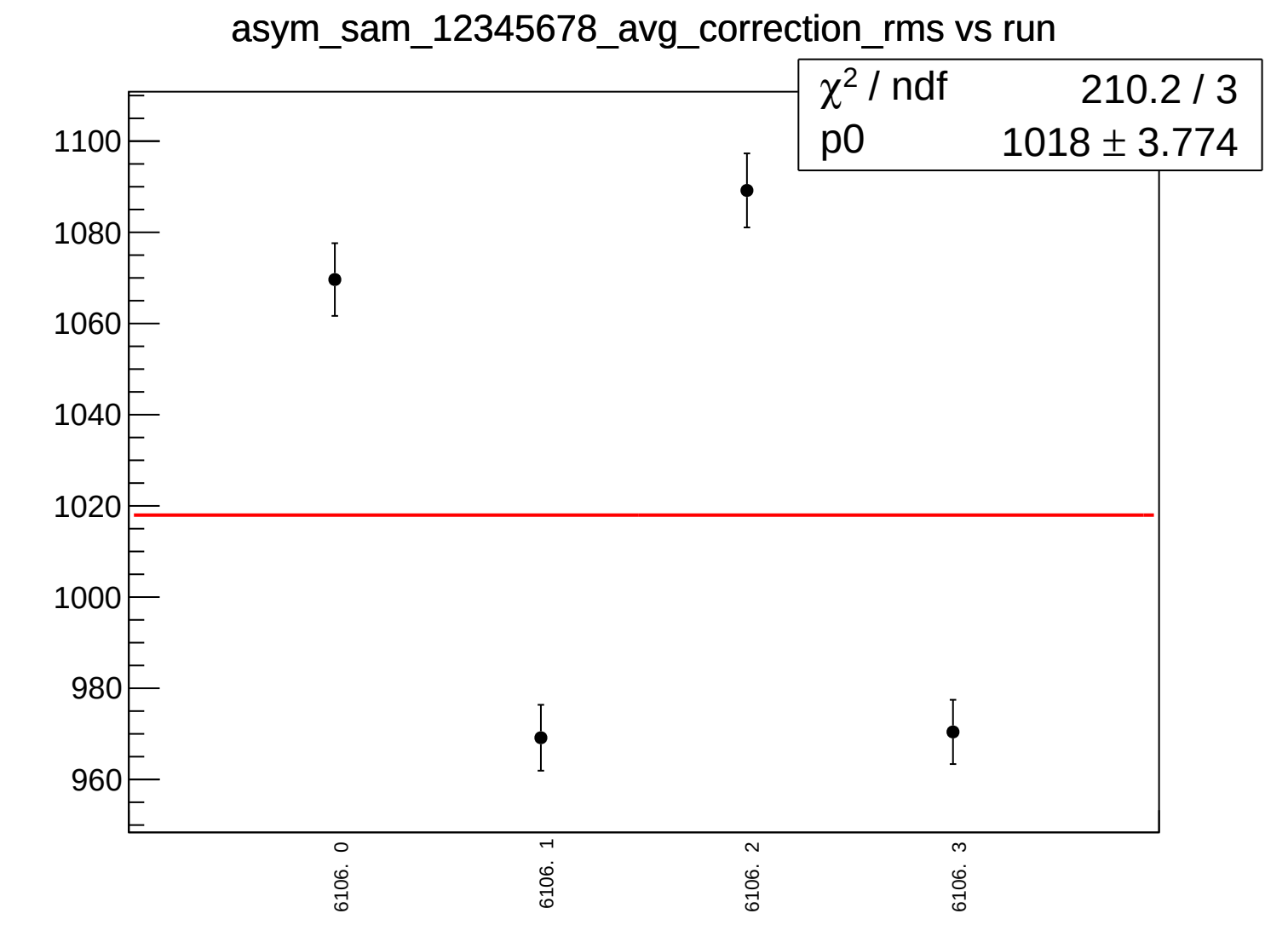

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 244.9 / 3
p0 401.5 ± 1.489
440
430
420
410
400
390
380
6106. 0
6106. 1
6106. 2
6106. 3

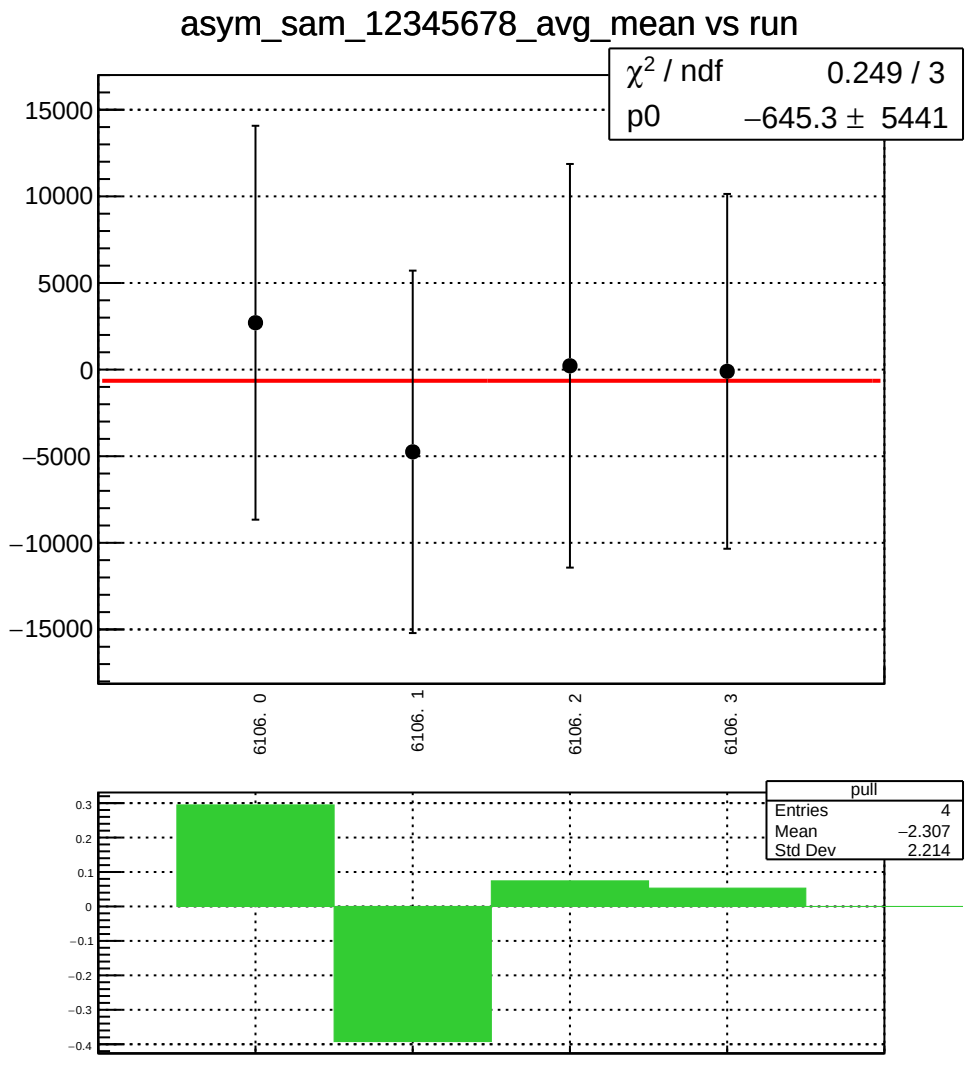

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 0.8655 / 3
p0 666.9 ± 372.7
2000
1500
1000
500
0
−500
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 5.746
Std Dev 2.093
0.6
0.4
0.2
0
−0.2
−0.4


pull1D
Entries 4
Mean −0.01421
Std Dev 0.4649
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 390.2 / 3
p0 71 ± 0.2636
82
80
78
76
74
72
70
68
66
6106. 0
6106. 1
6106. 2
6106. 3


asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 0.3201 / 3
p0 1348 ± 5338
15000
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −0.6096
Std Dev 3.725
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.009672
Std Dev 0.2827
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 210.2 / 3
p0 1018 ± 3.774
1100
1080
1060
1040
1020
1000
980
960
6106. 0
6106. 1
6106. 2
6106. 3


asym_sam_12345678_avg_mean vs run
χ² / ndf 0.249 / 3
p0 −645.3 ± 5441
15000
10000
5000
0
−5000
−10000
−15000
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.307
Std Dev 2.214
0.3
0.2
0.1
0
−0.1
−0.2
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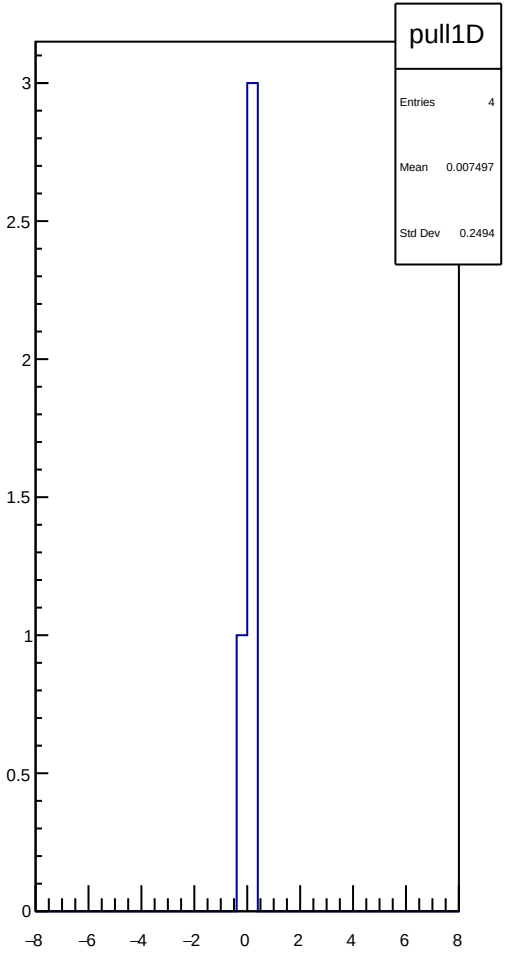
−0.4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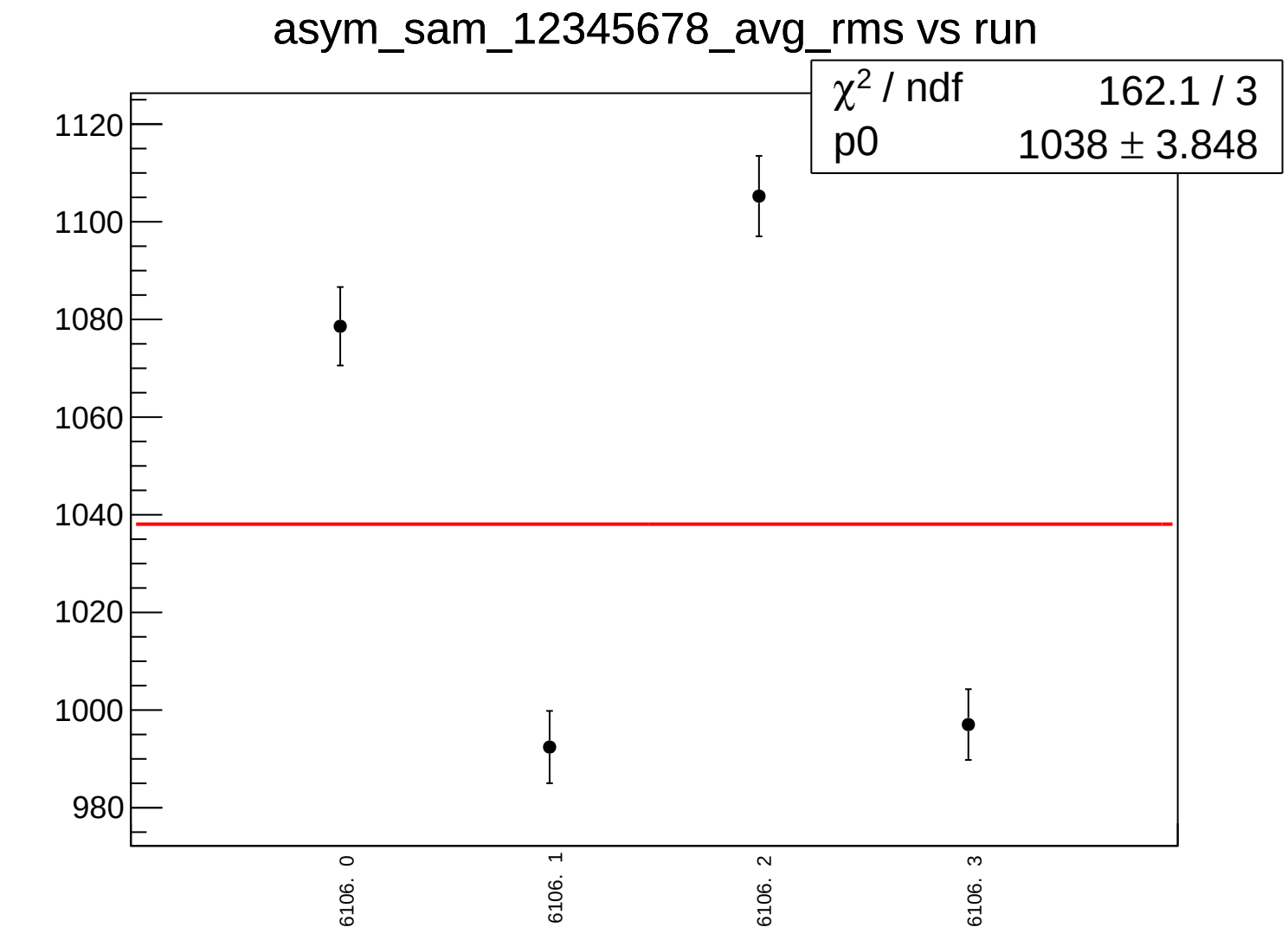
asym_sam_12345678_avg_rms vs run
χ² / ndf 162.1 / 3
p0 1038 ± 3.848
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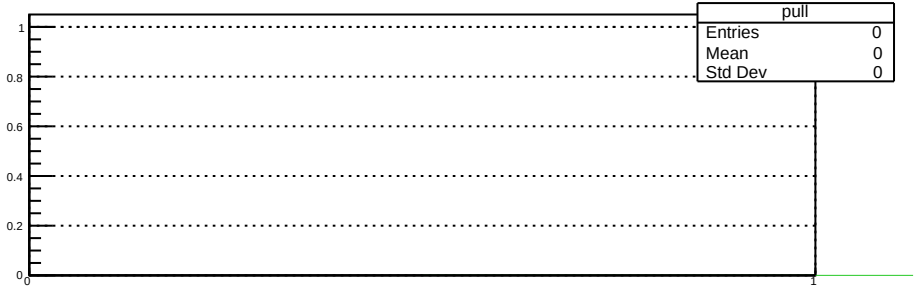
6106. 2
6106. 3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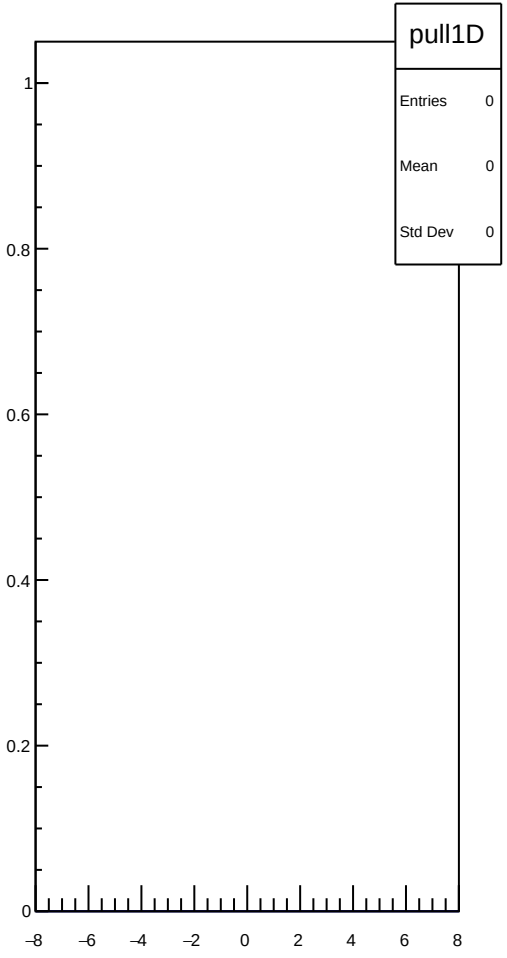
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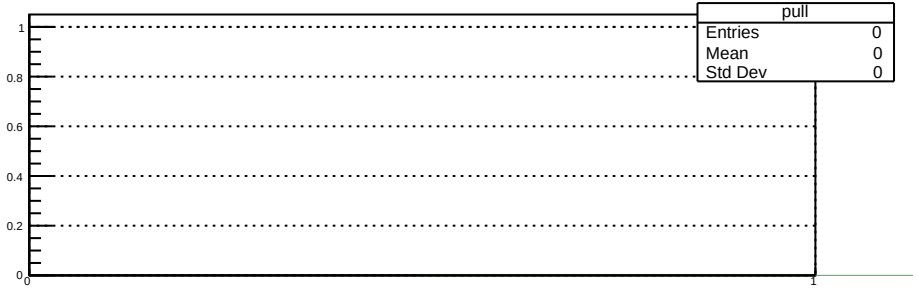
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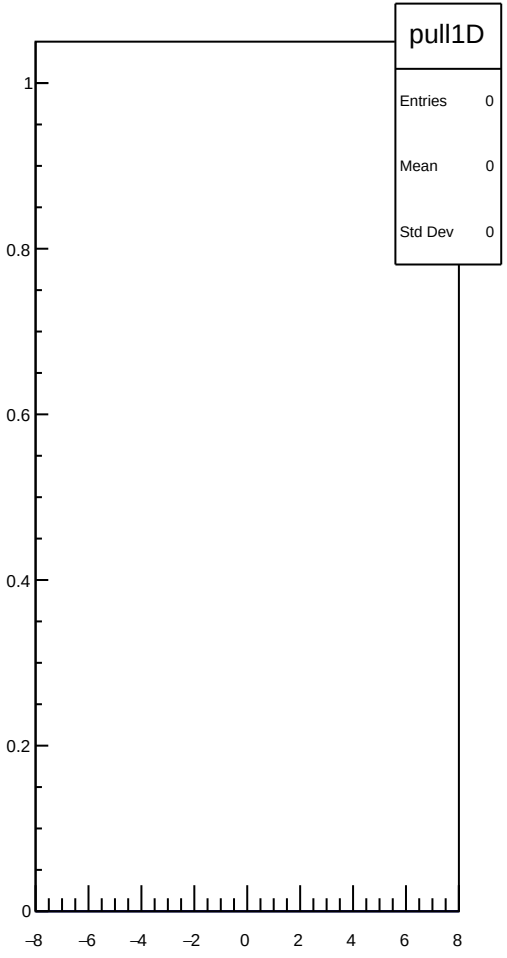
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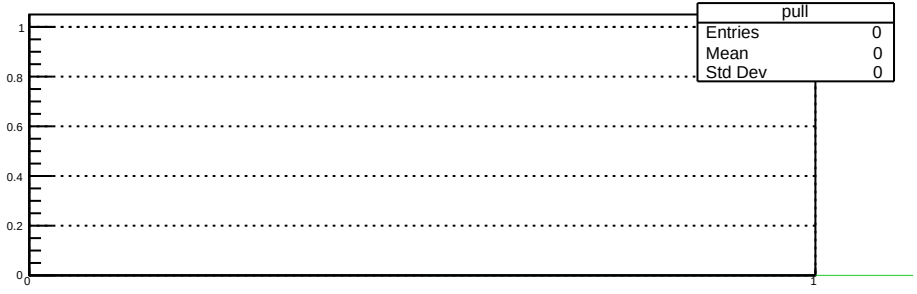
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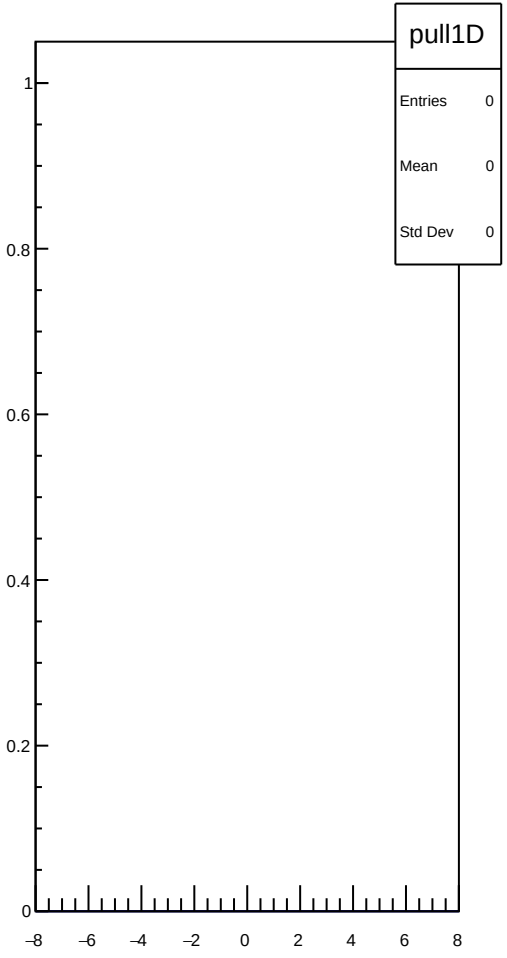
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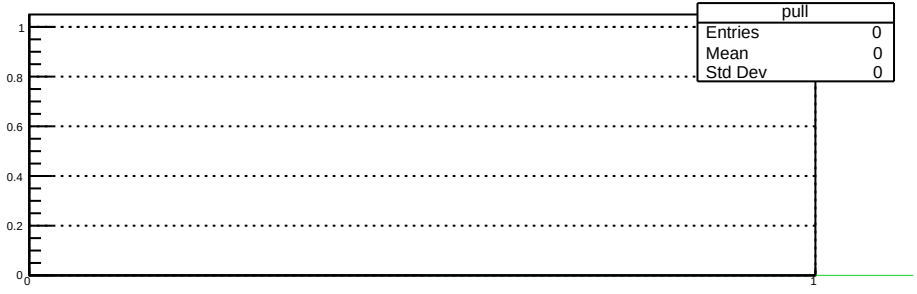
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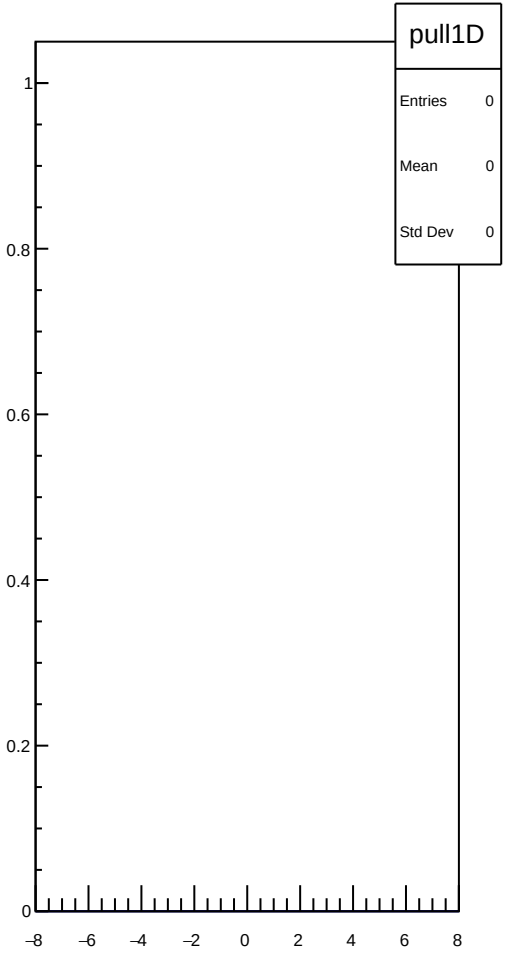
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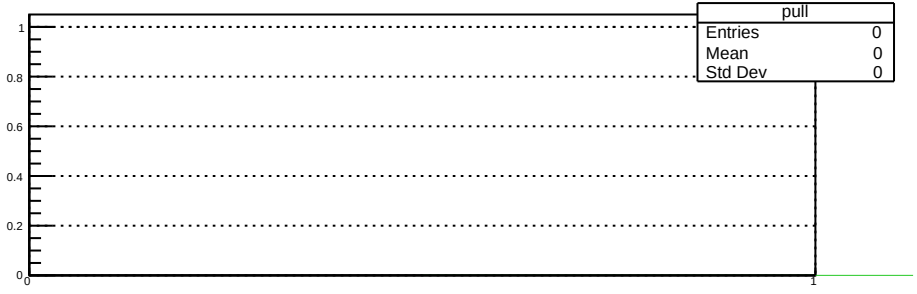
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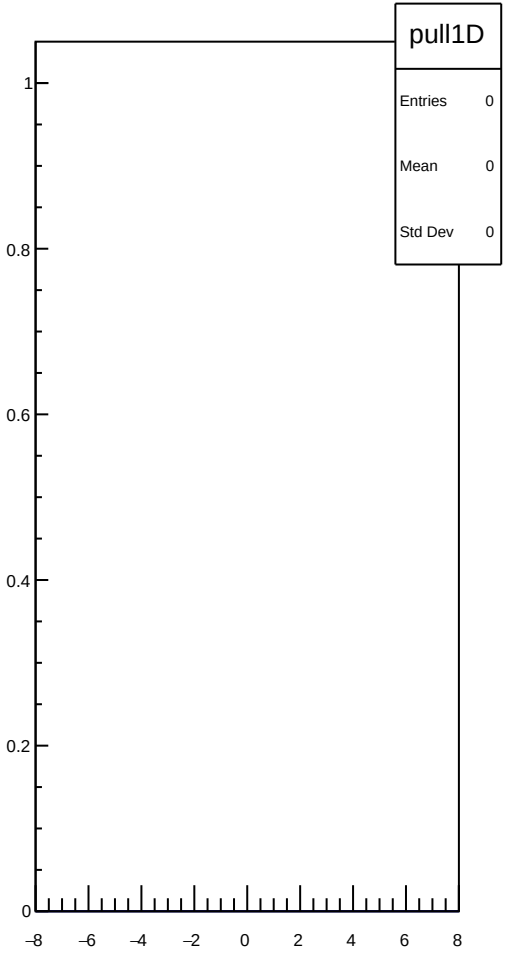
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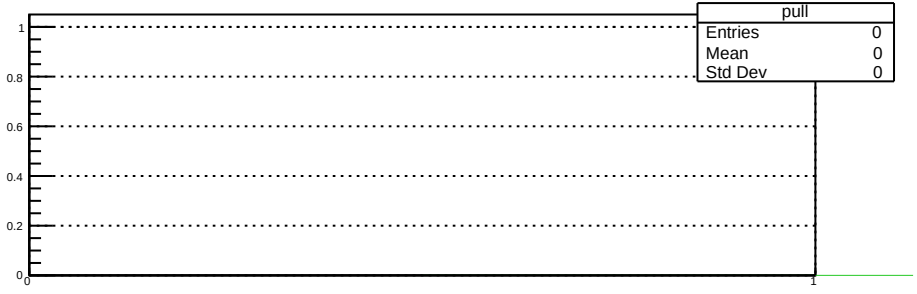
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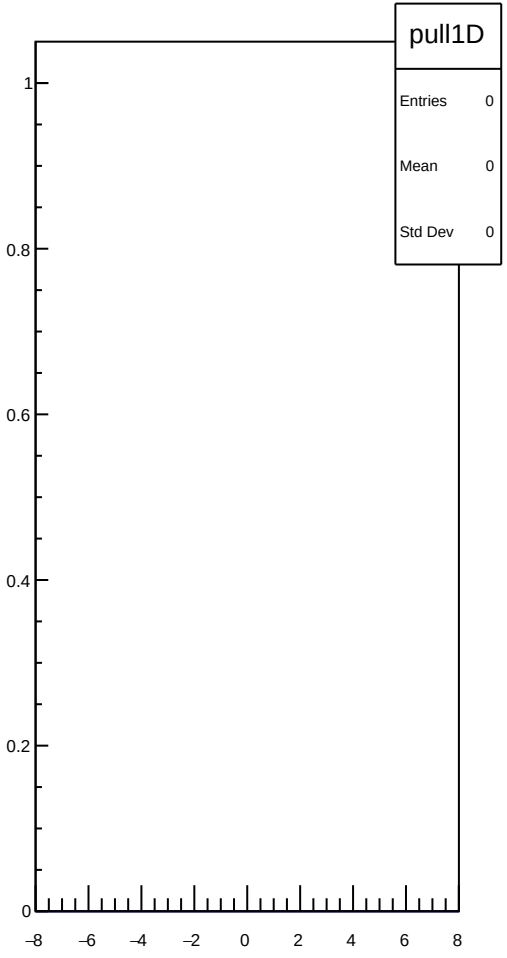
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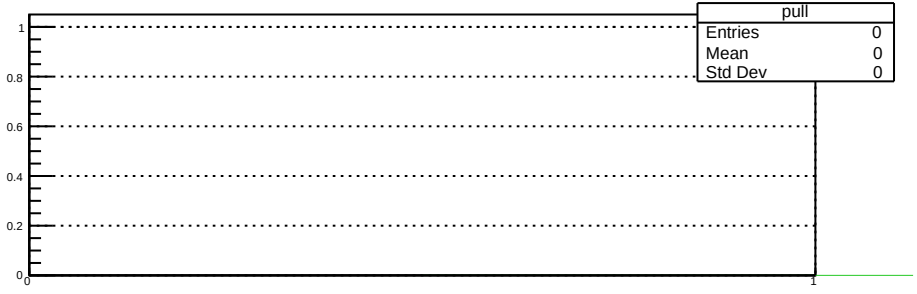
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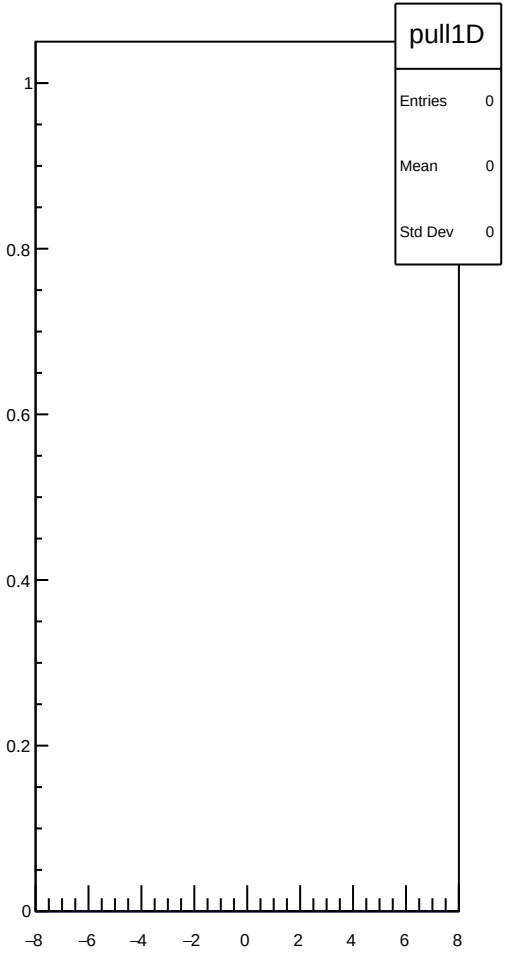
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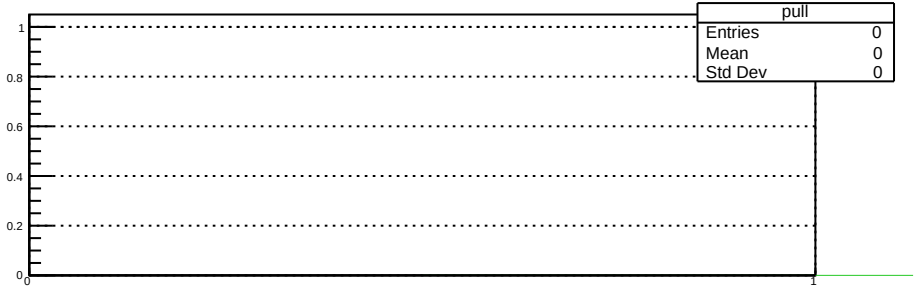
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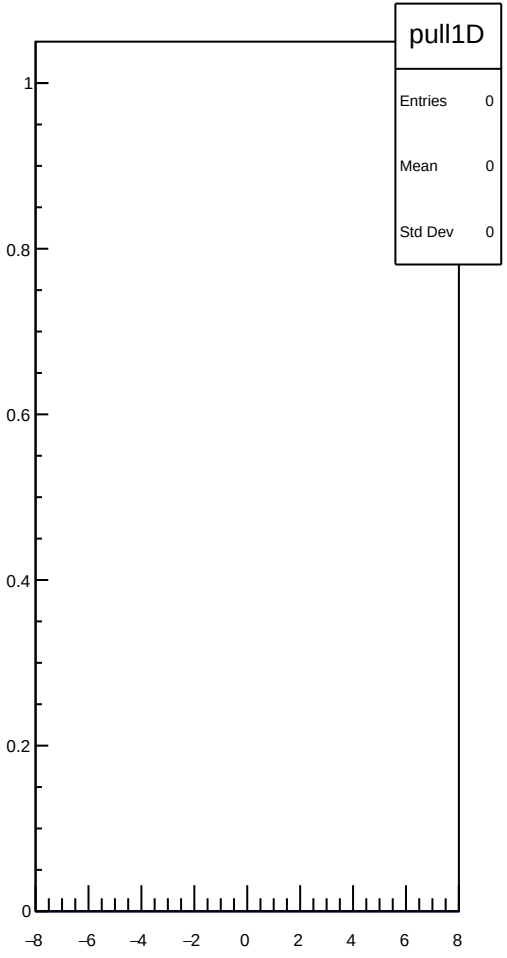
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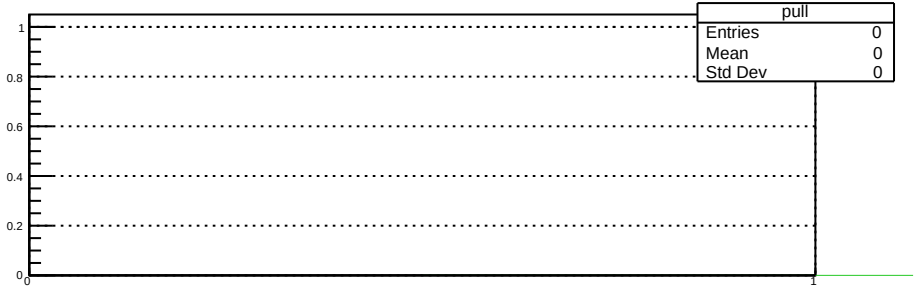
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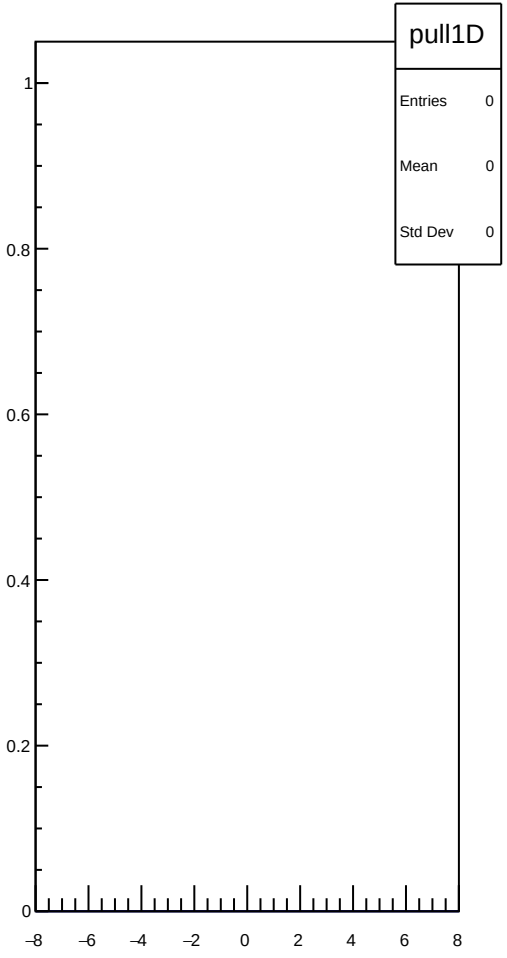
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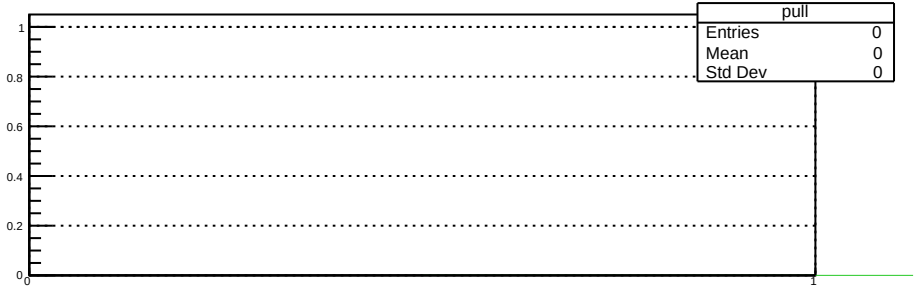
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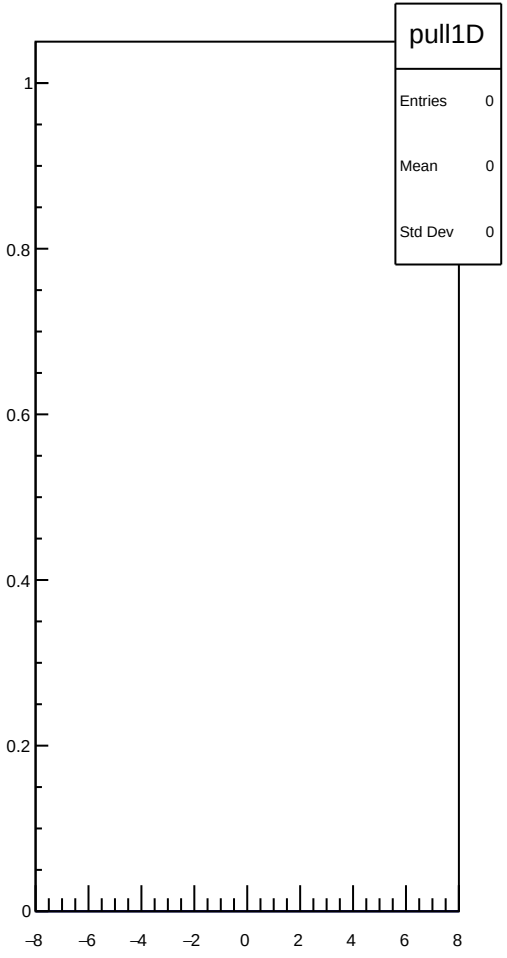
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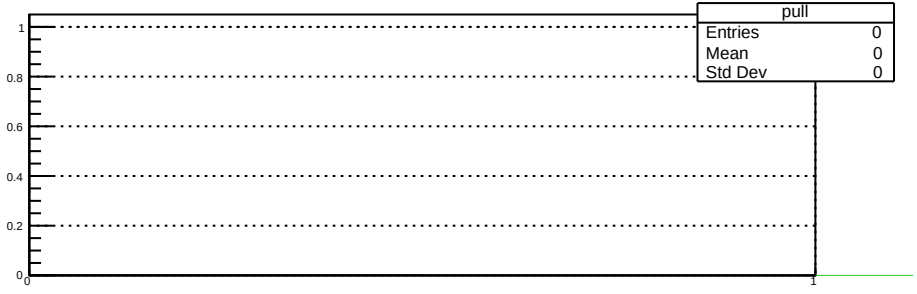
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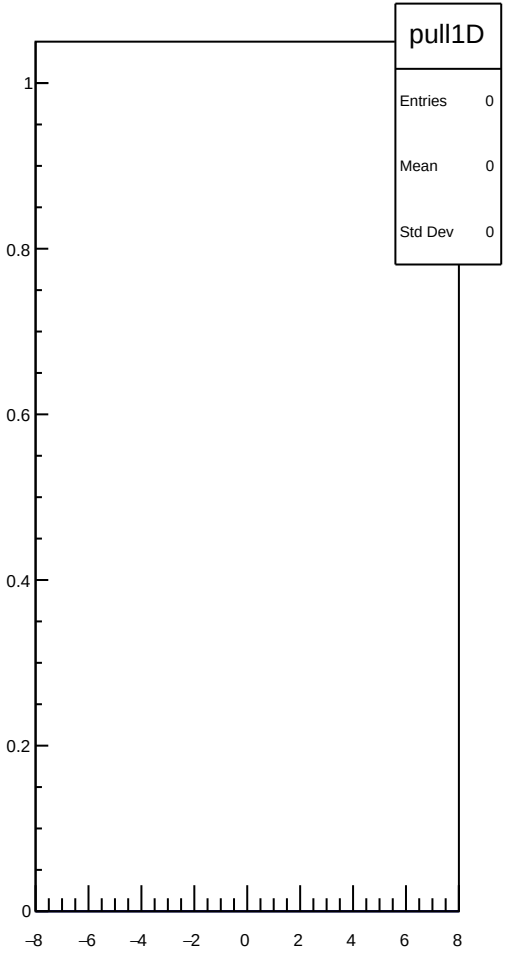
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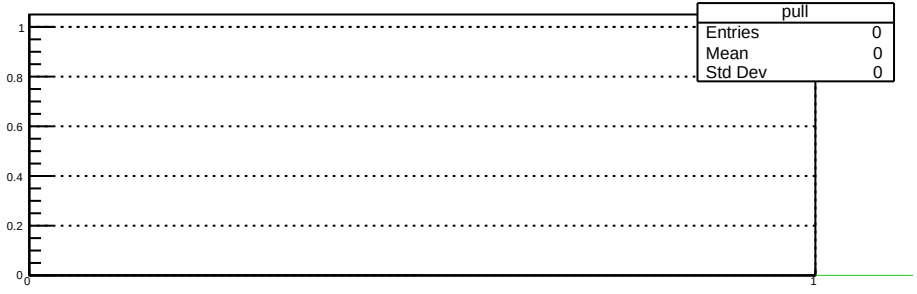
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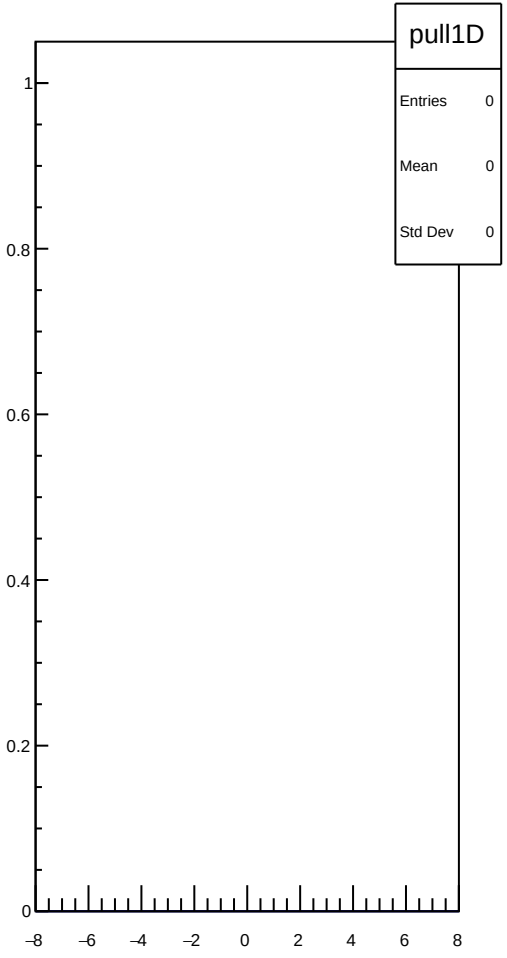
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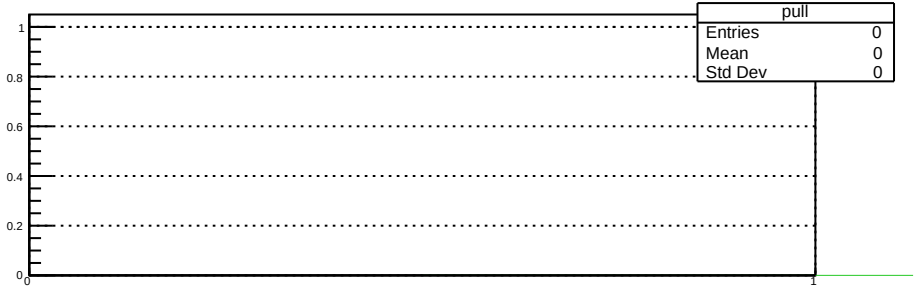
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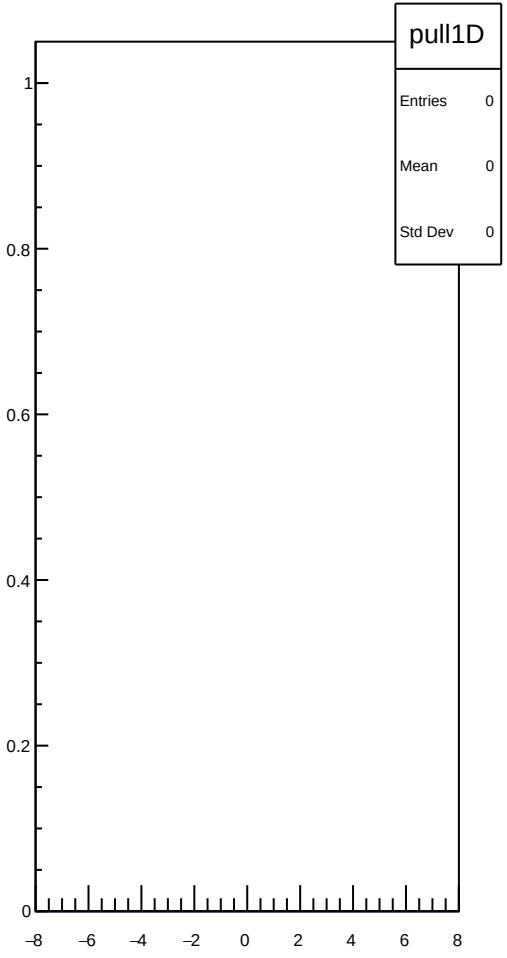
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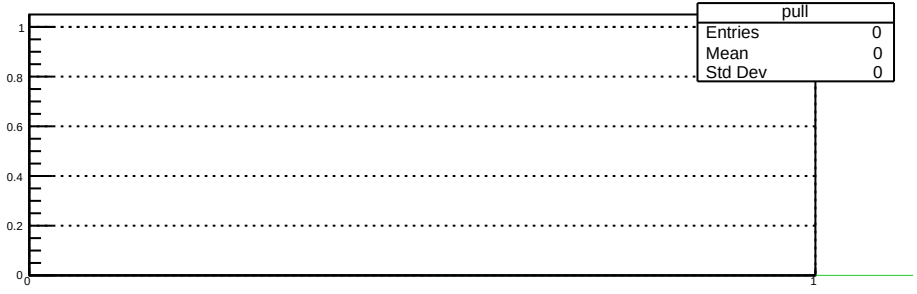
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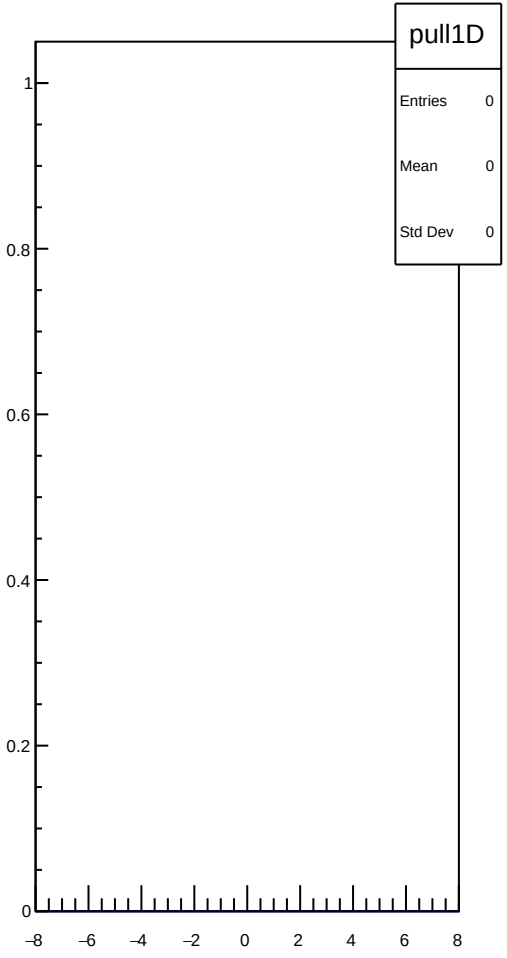
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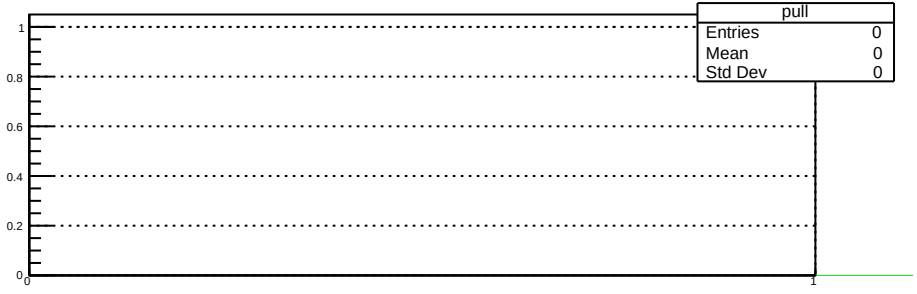
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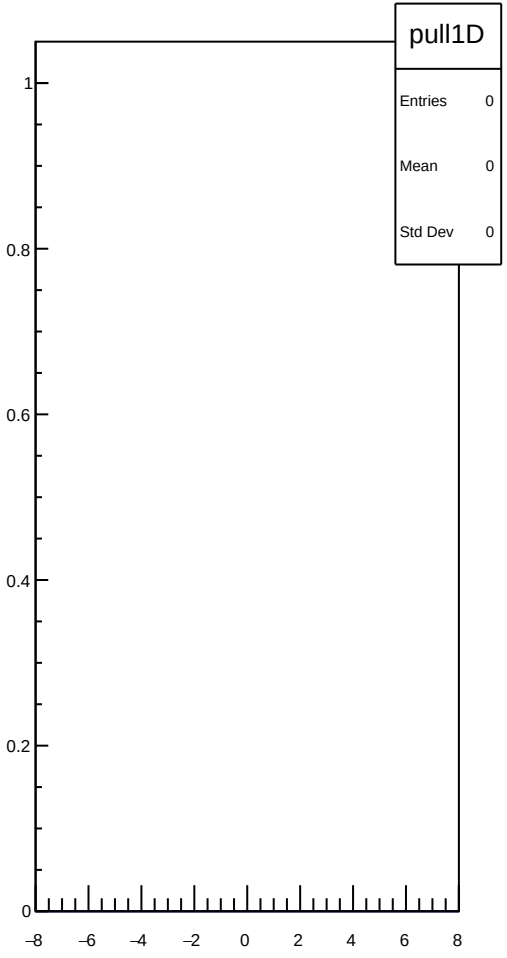
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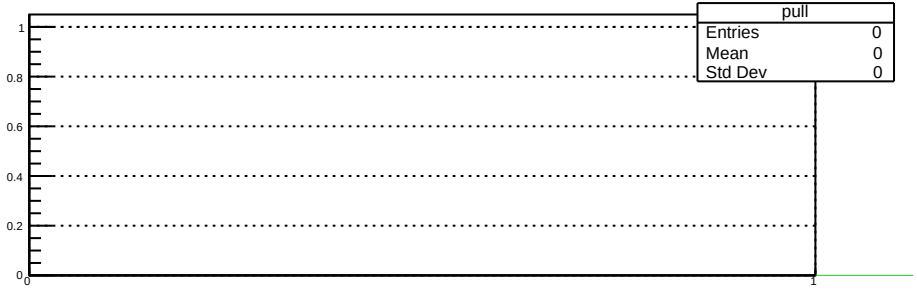
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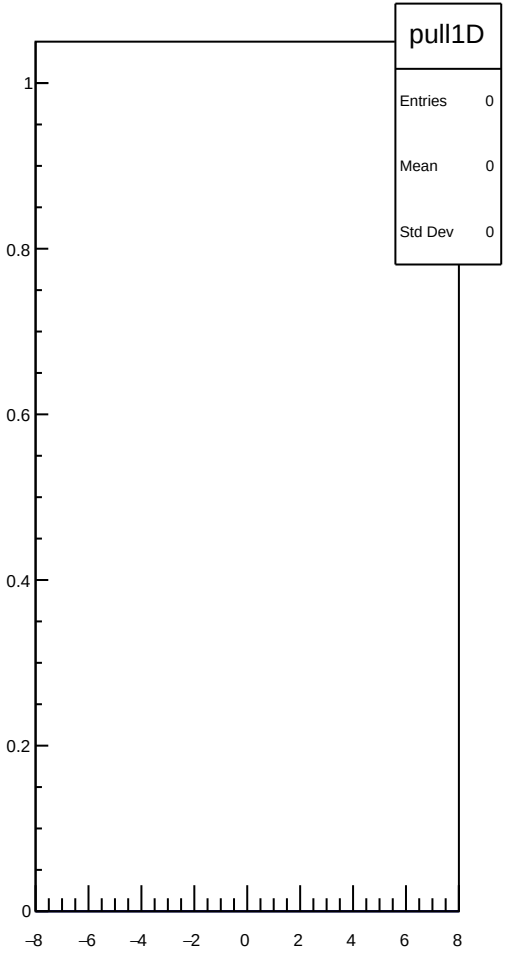
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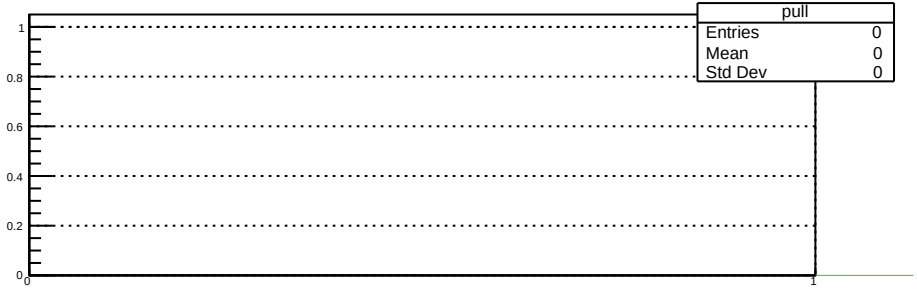
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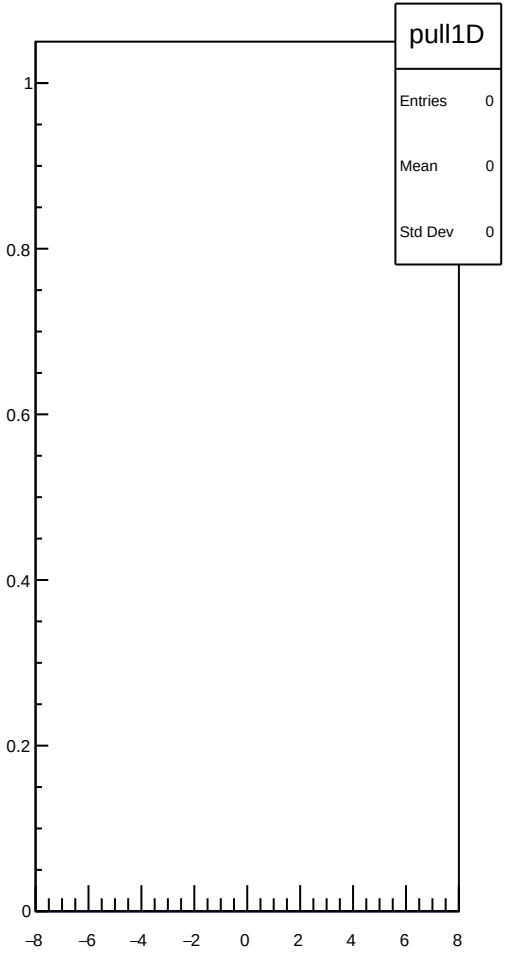
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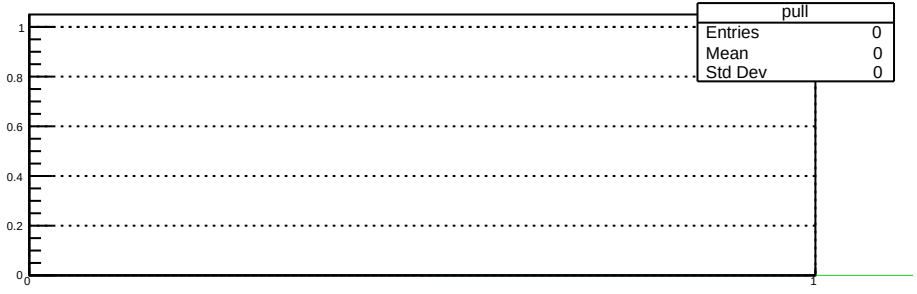
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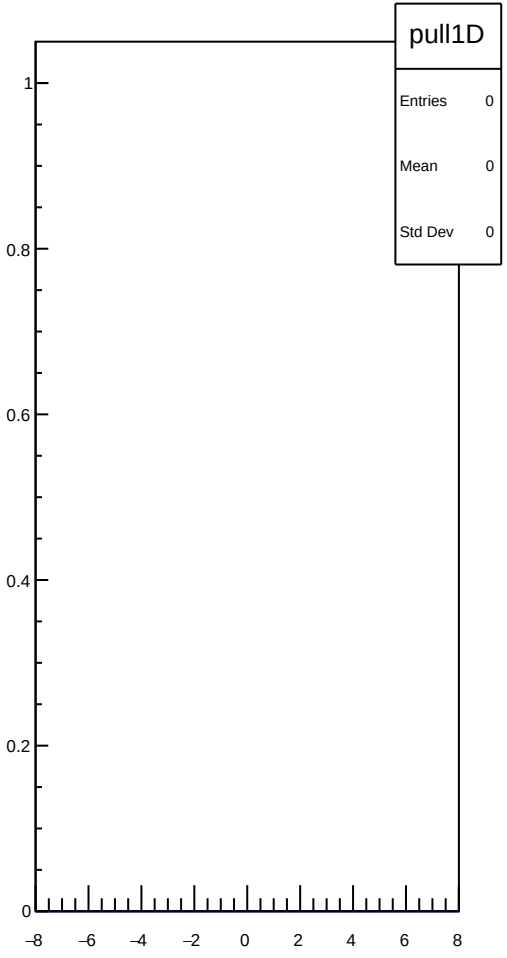
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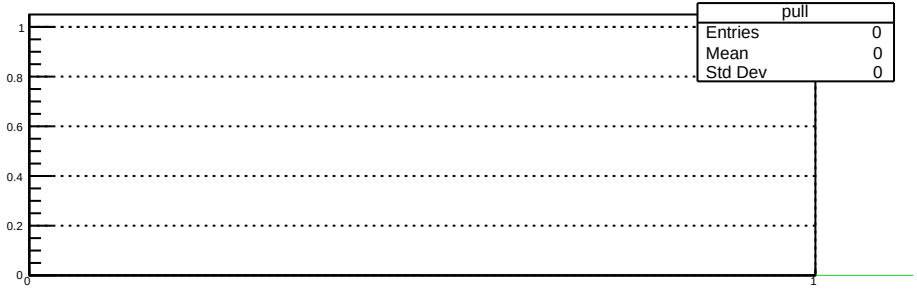
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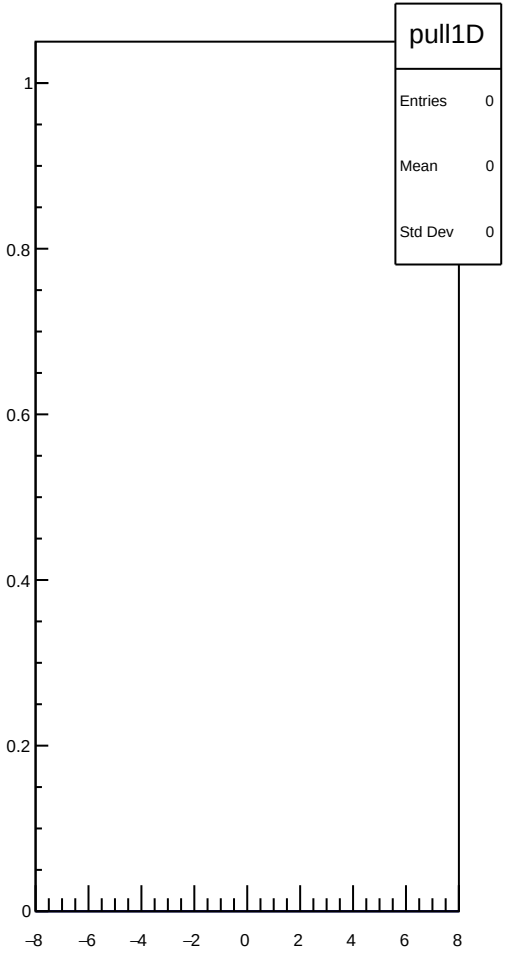
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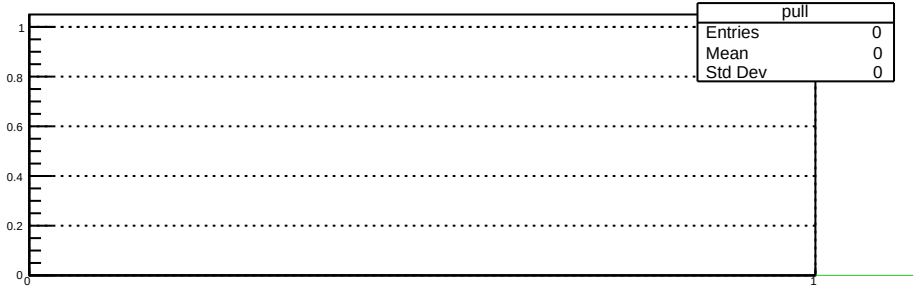
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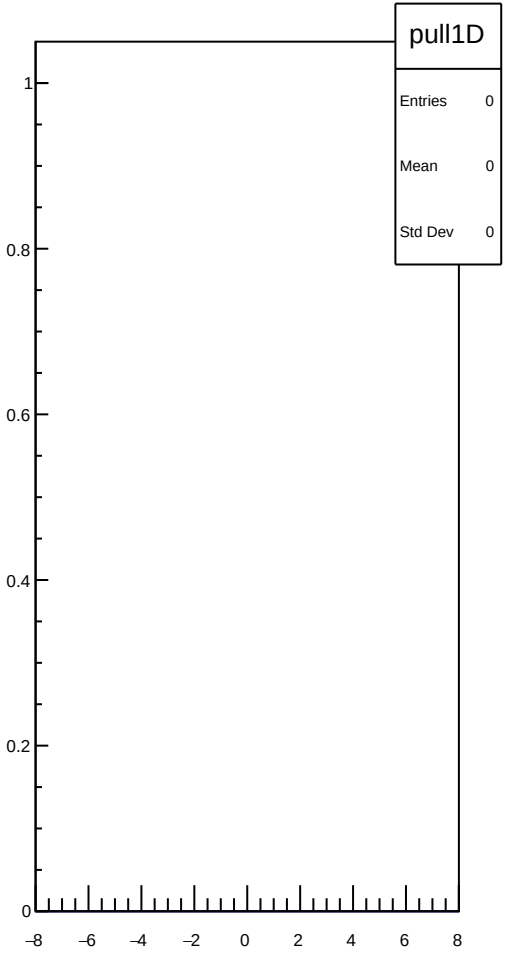
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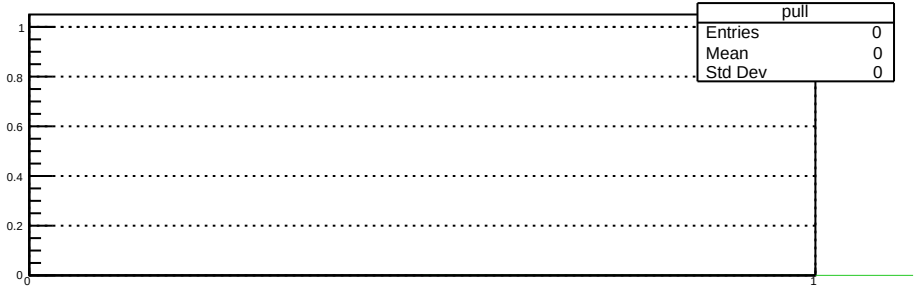
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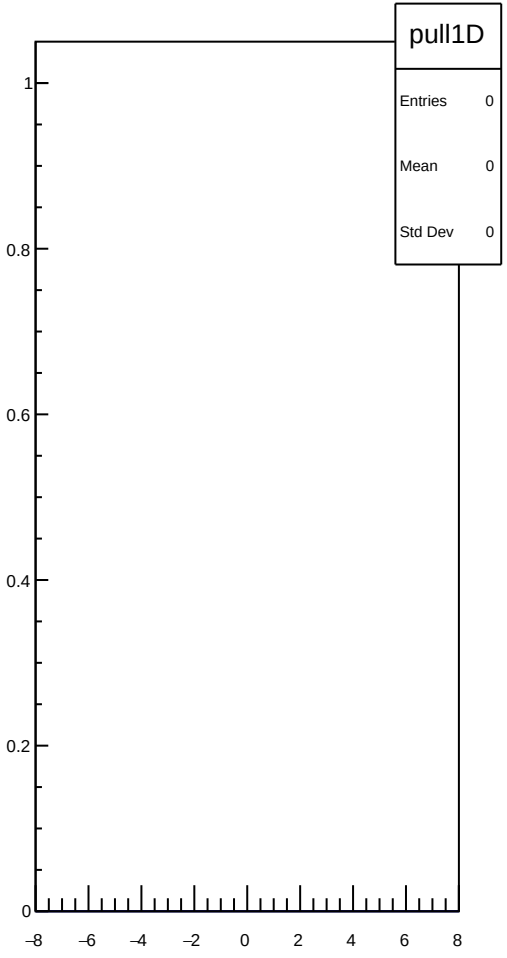
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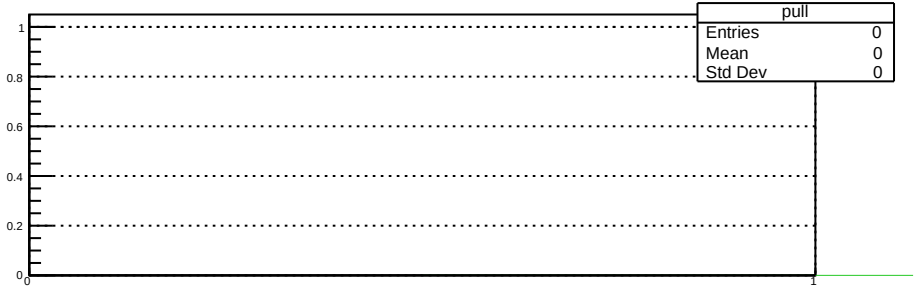
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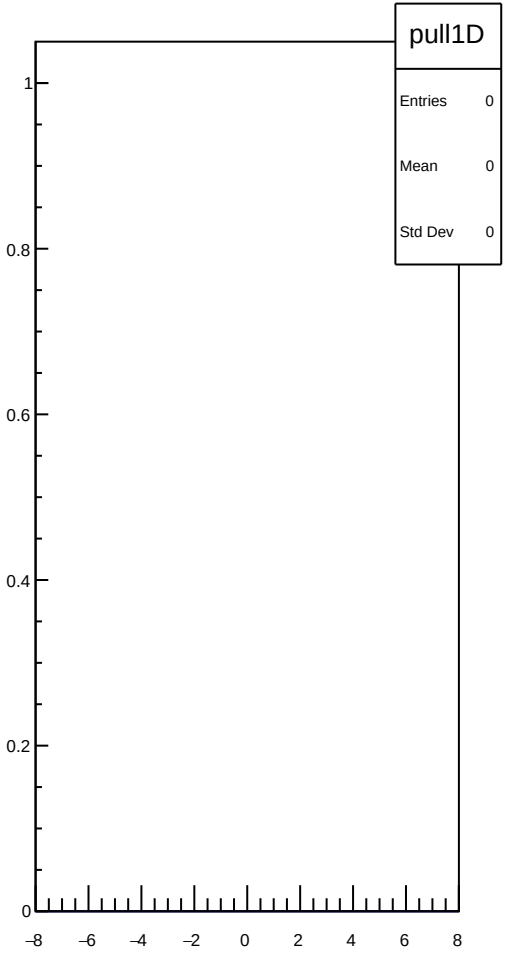
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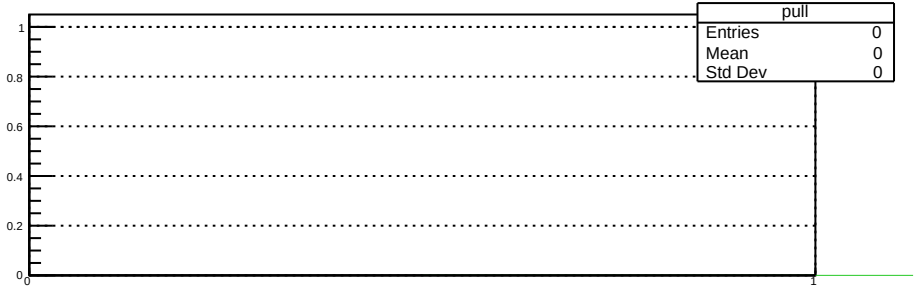
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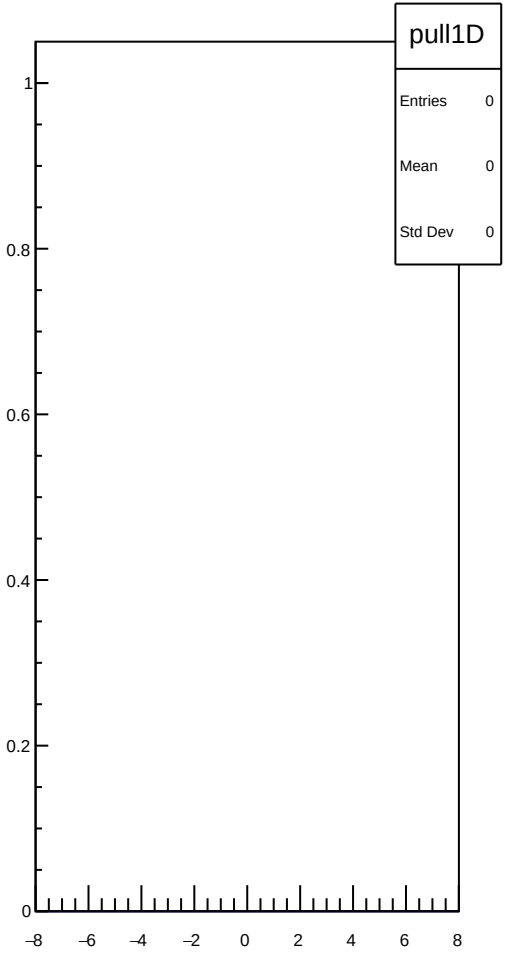
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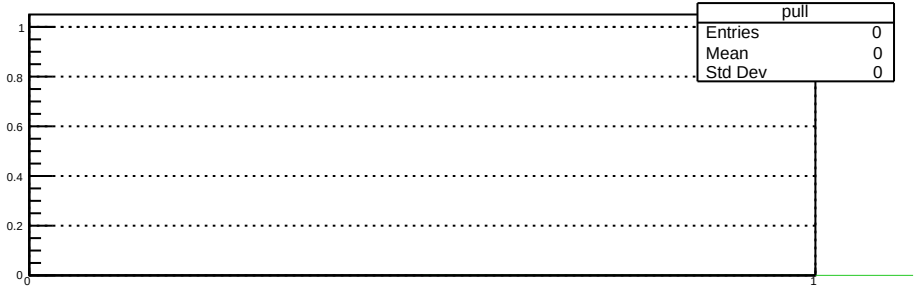
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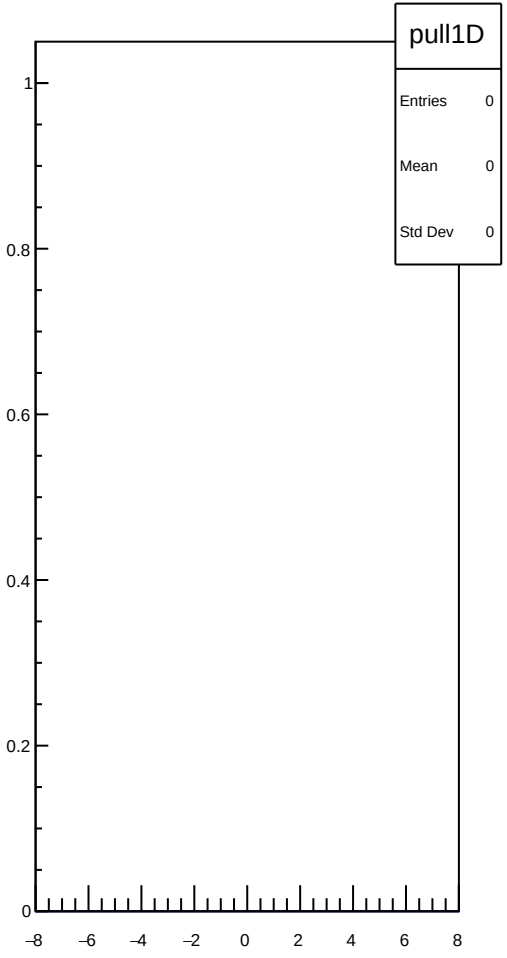
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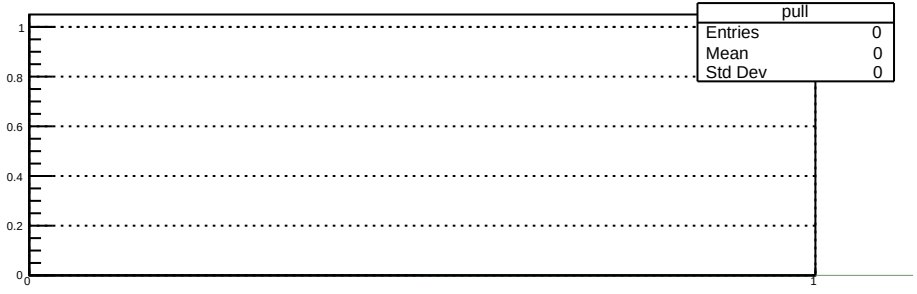
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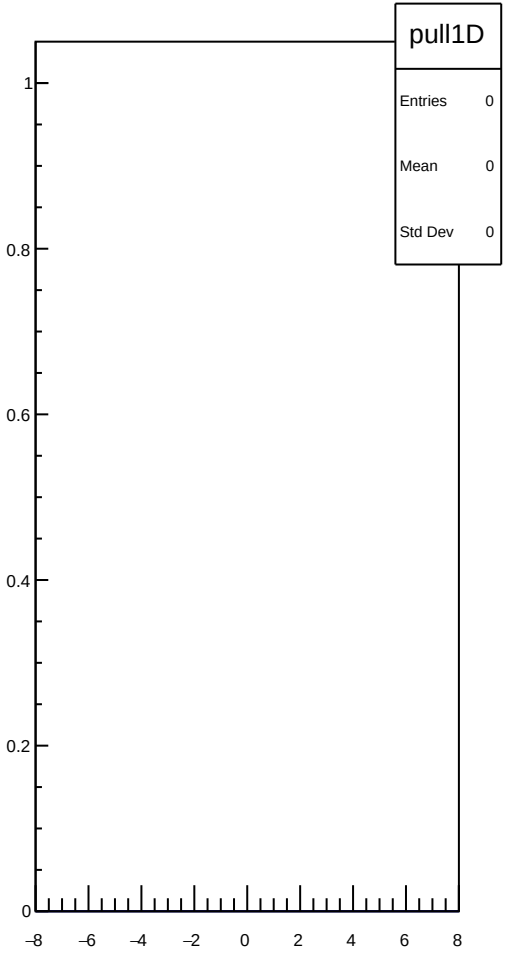
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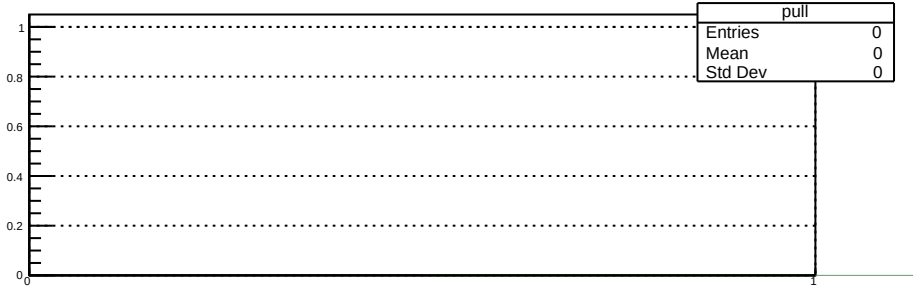
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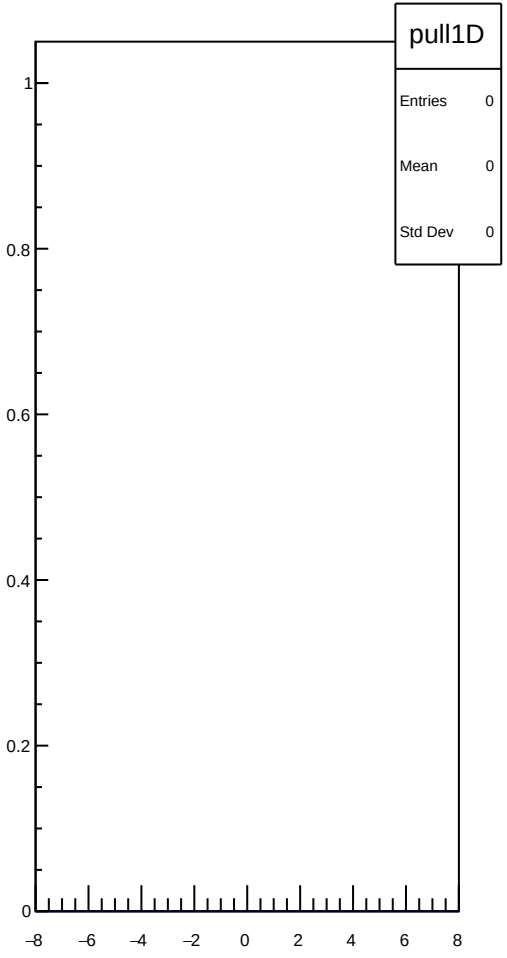
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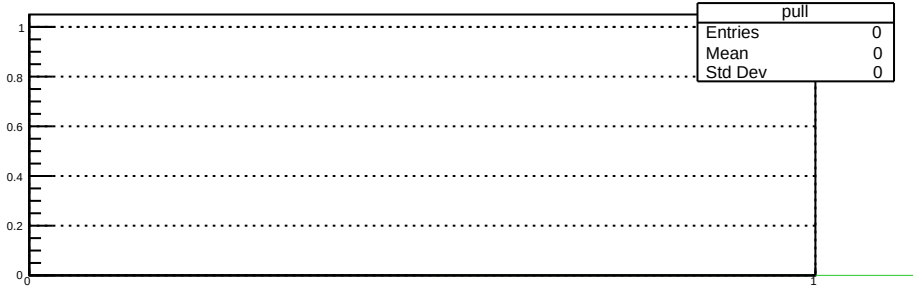
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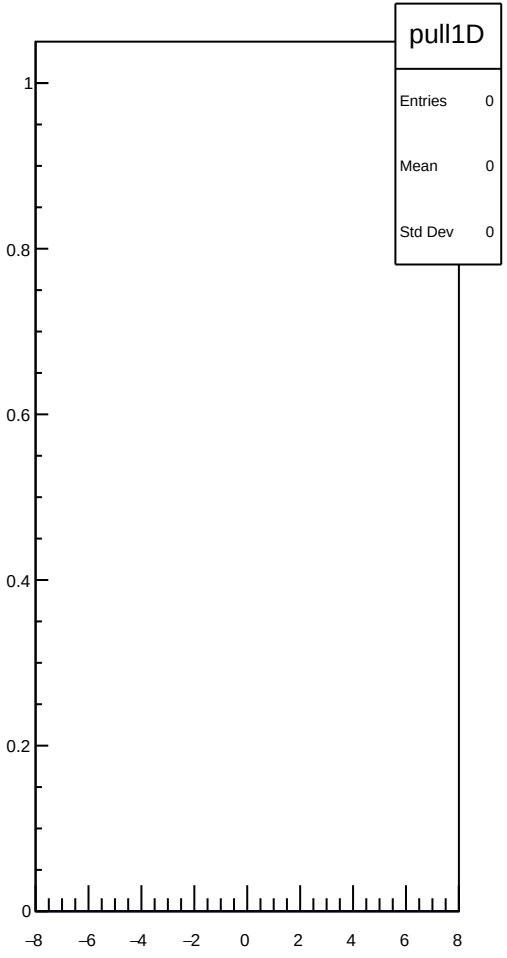
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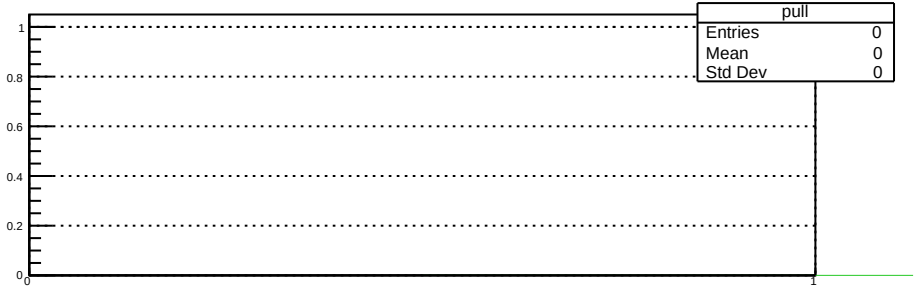
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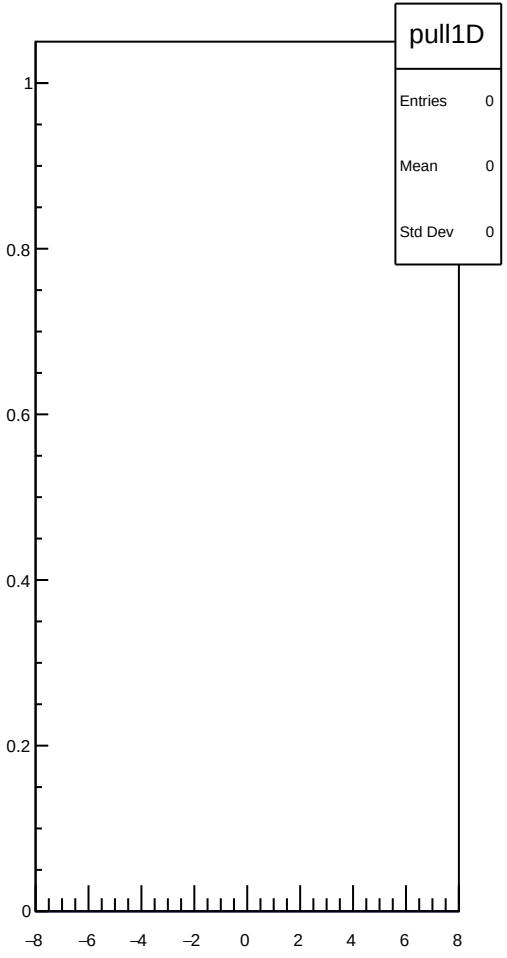
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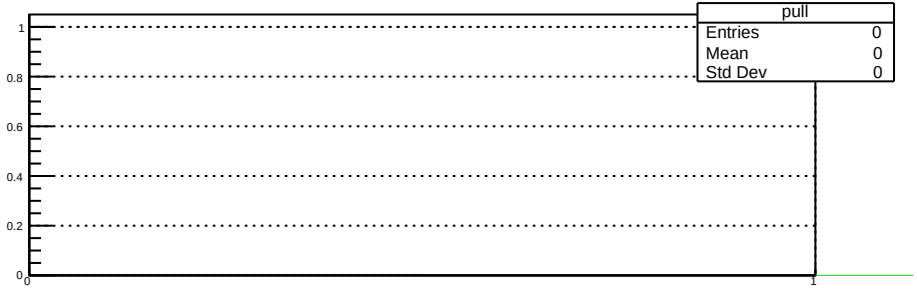
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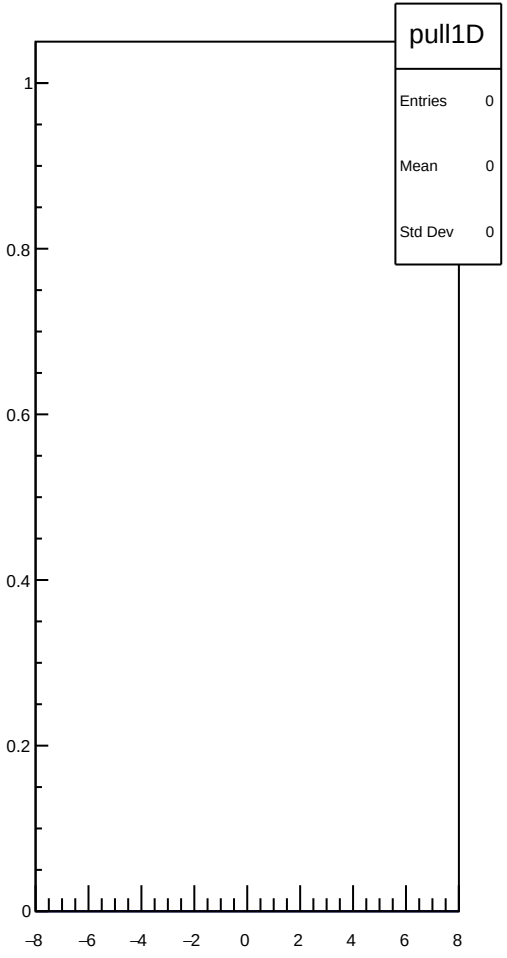
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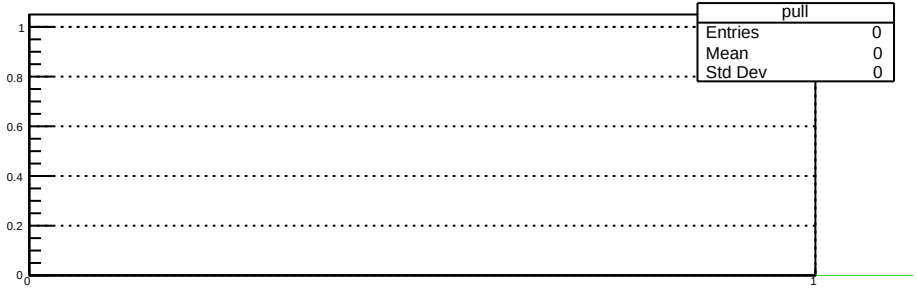
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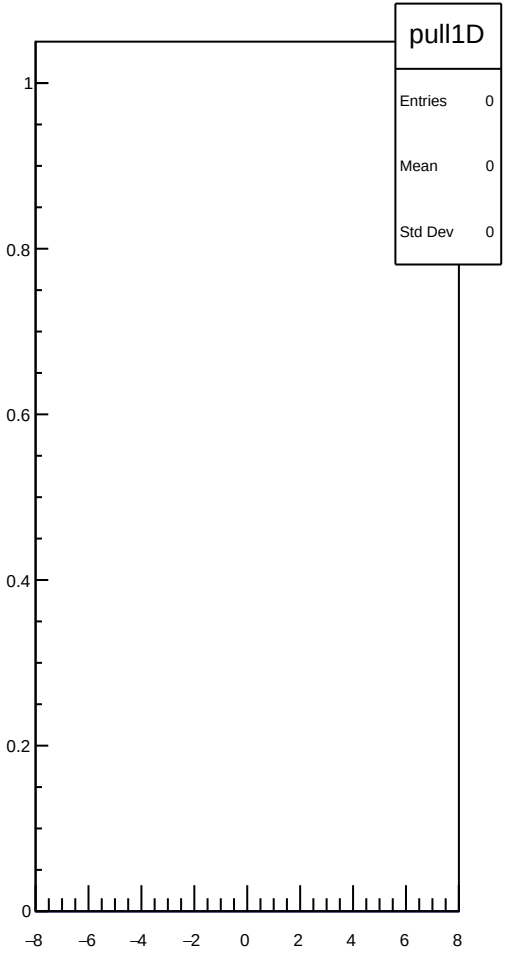
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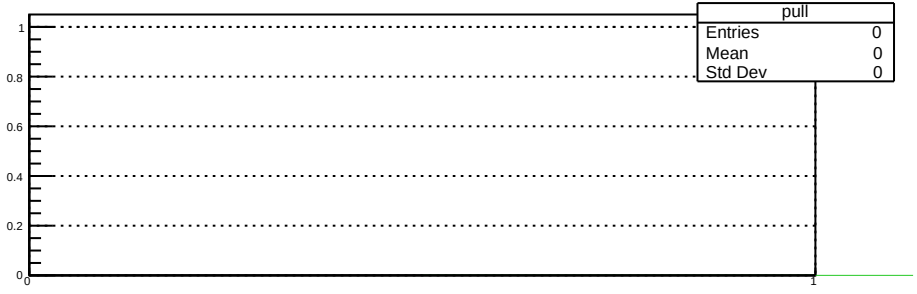
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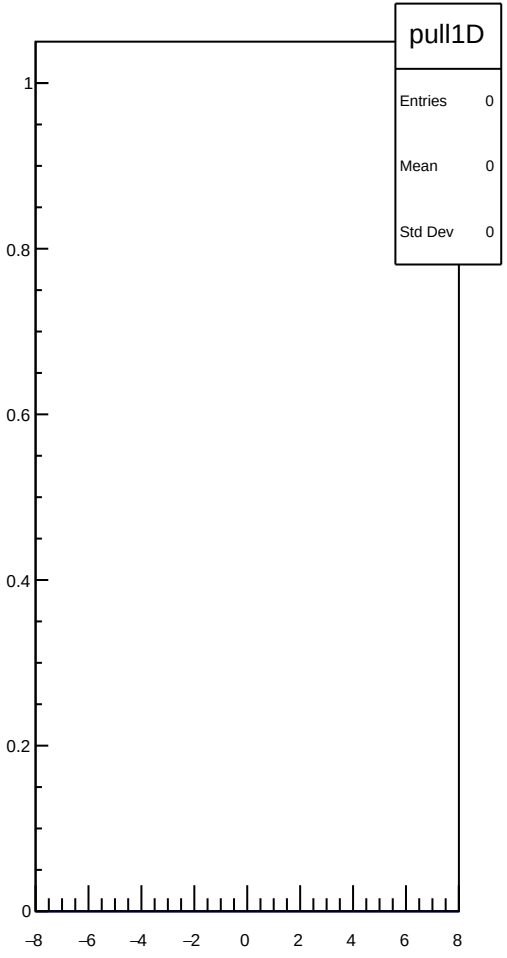
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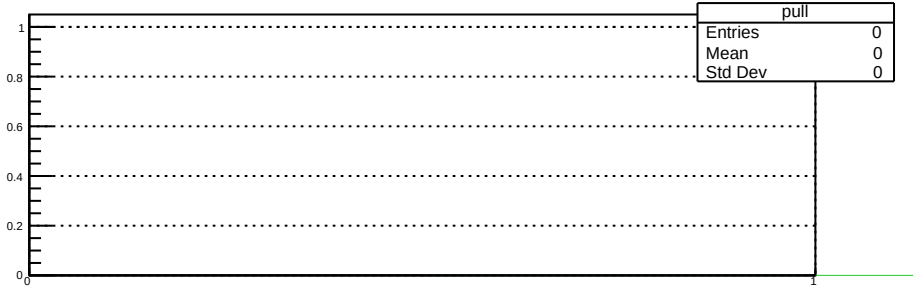
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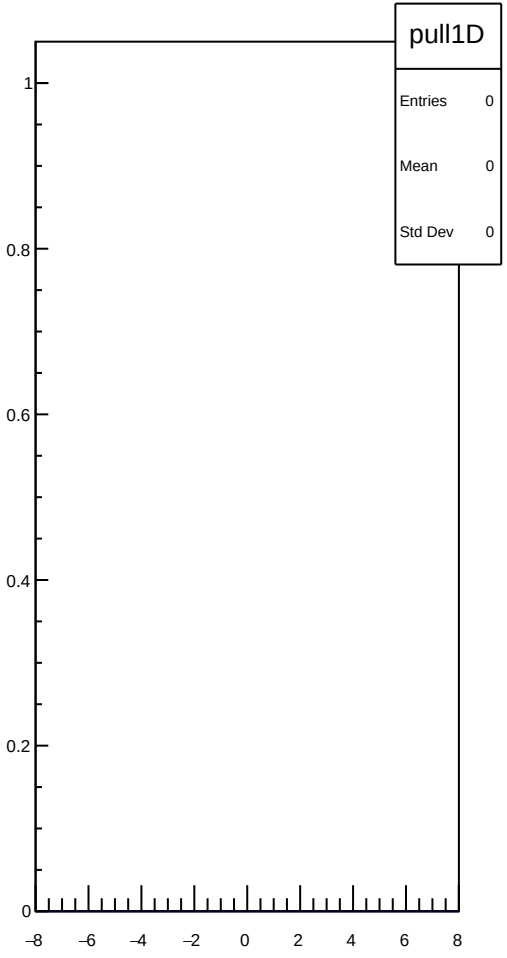
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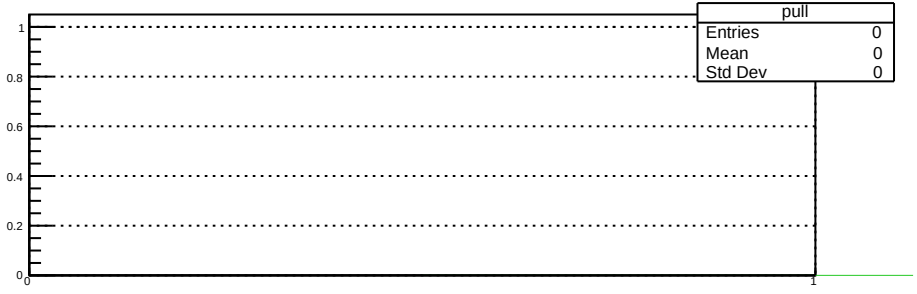
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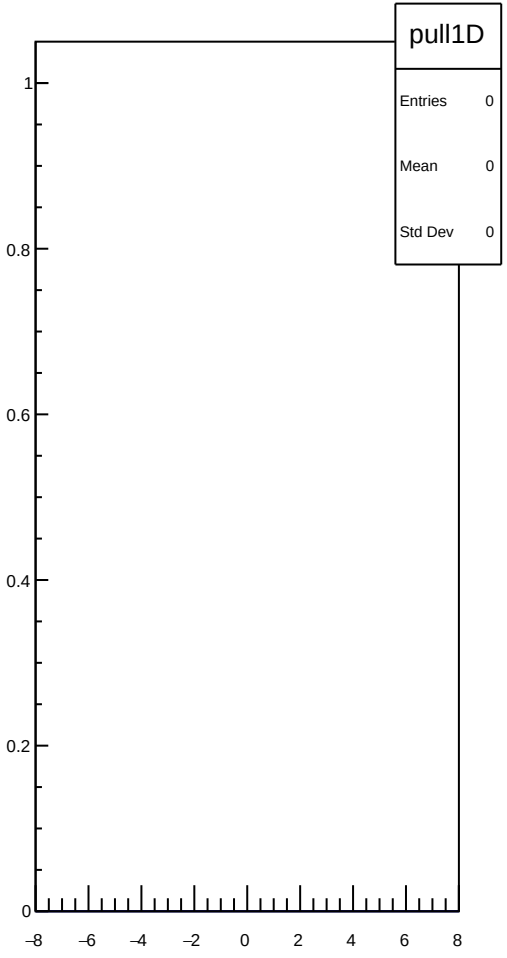
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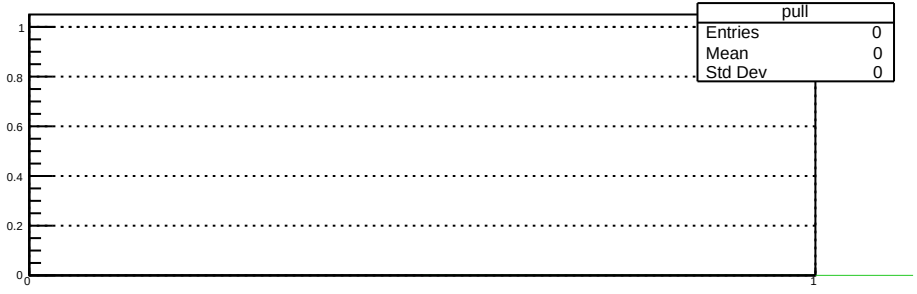
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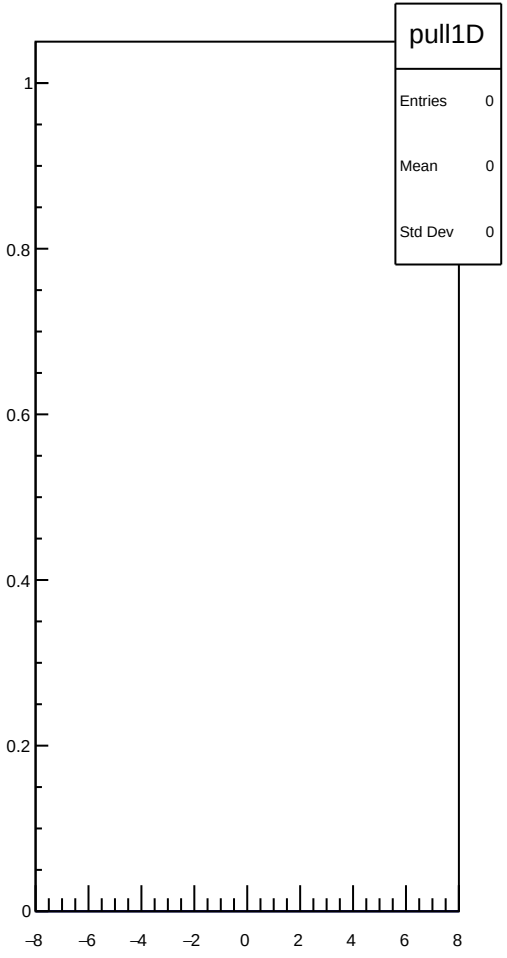
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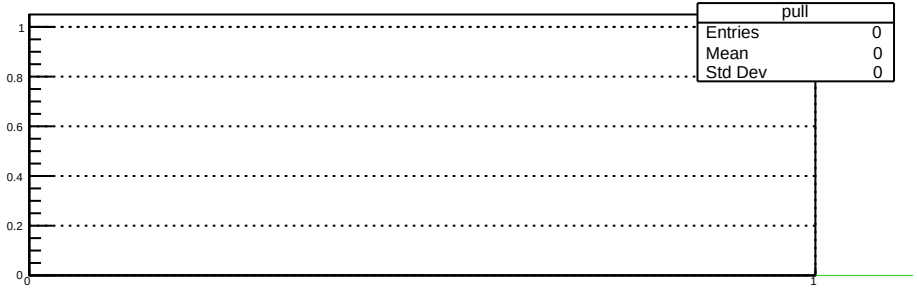
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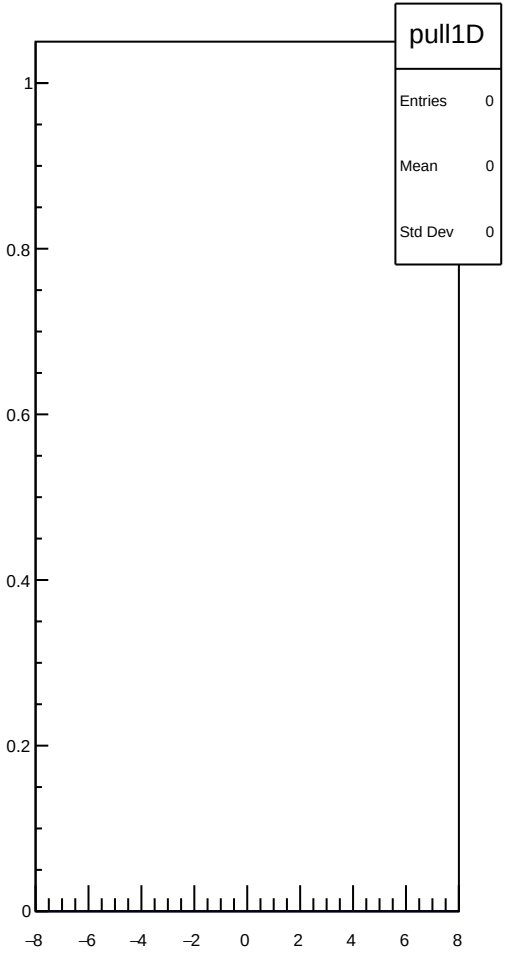
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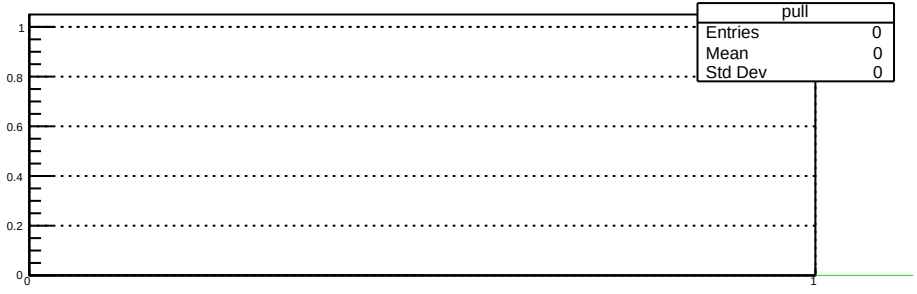
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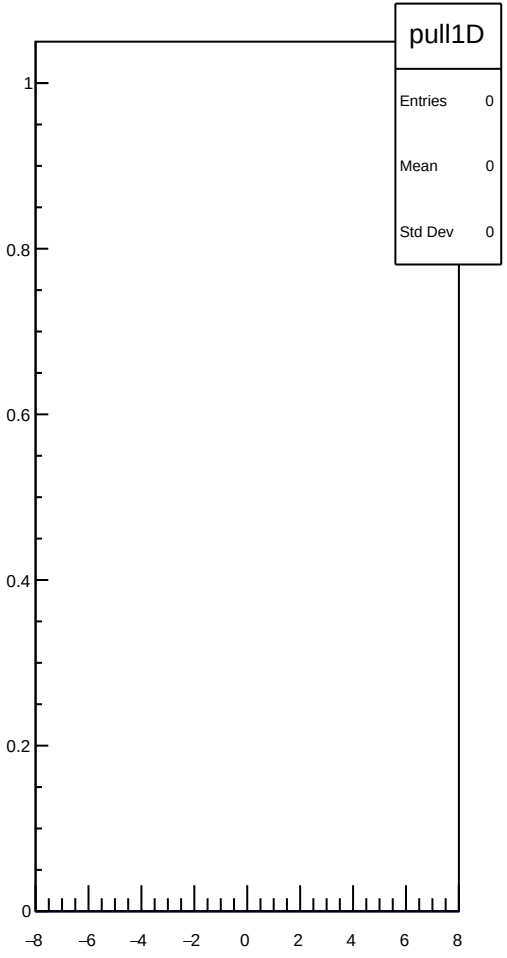
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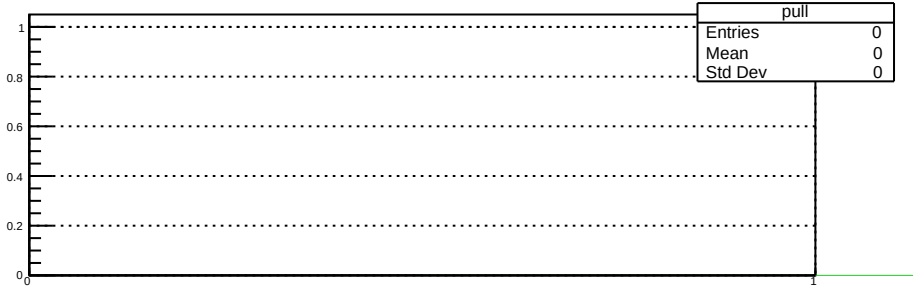
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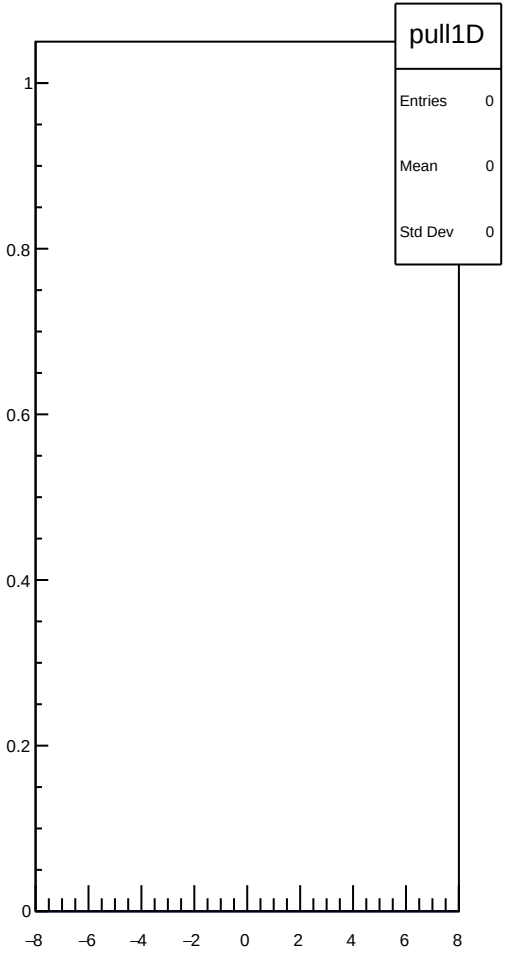
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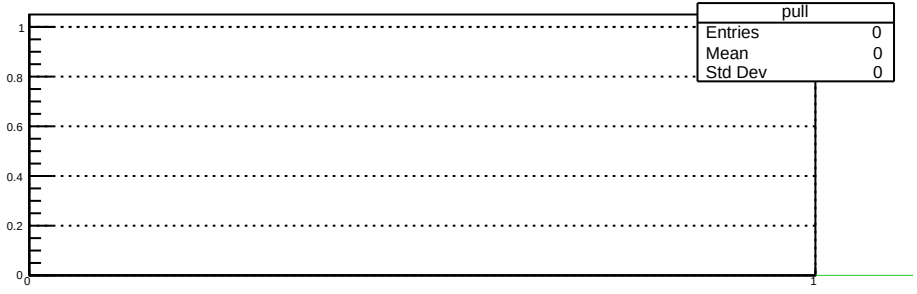
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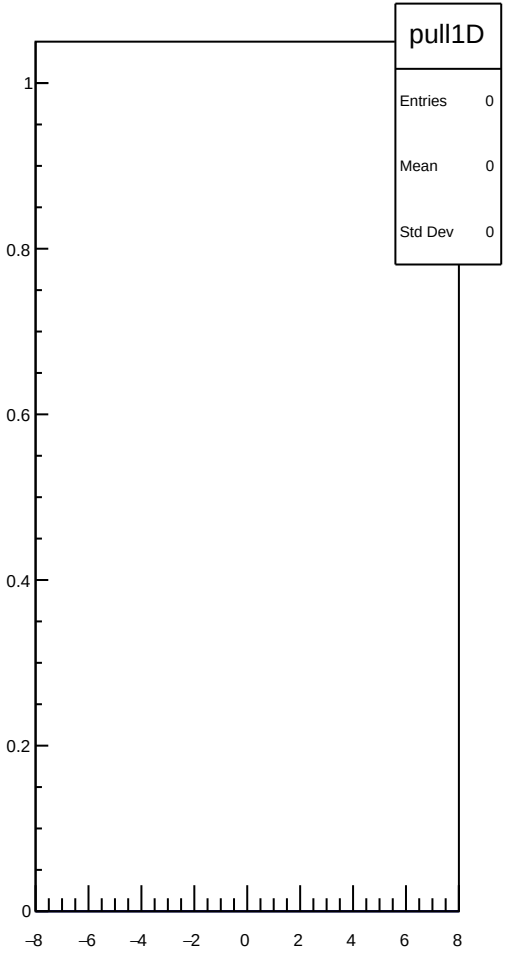
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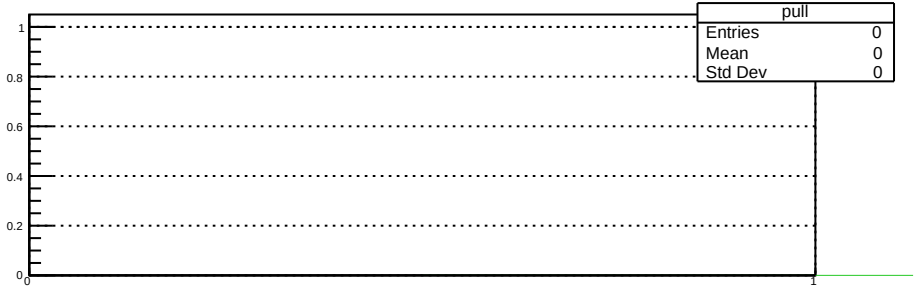
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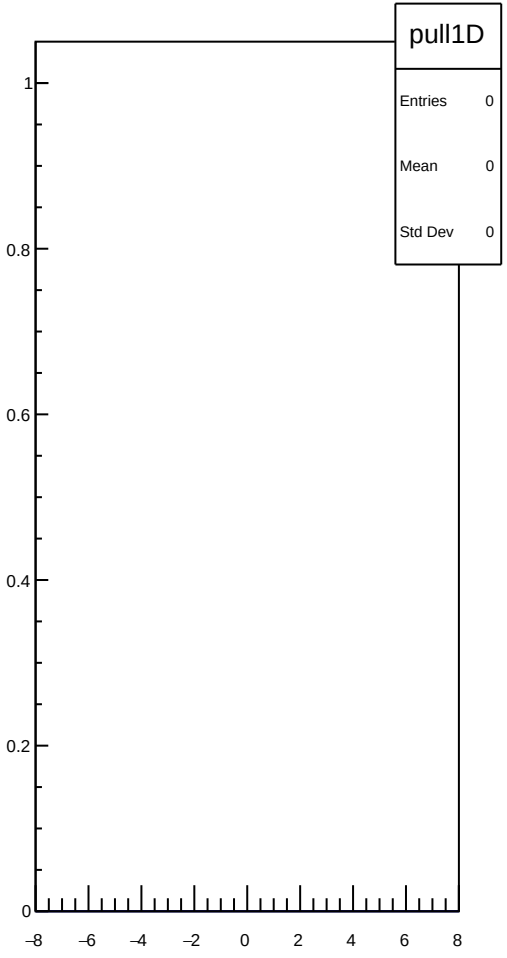
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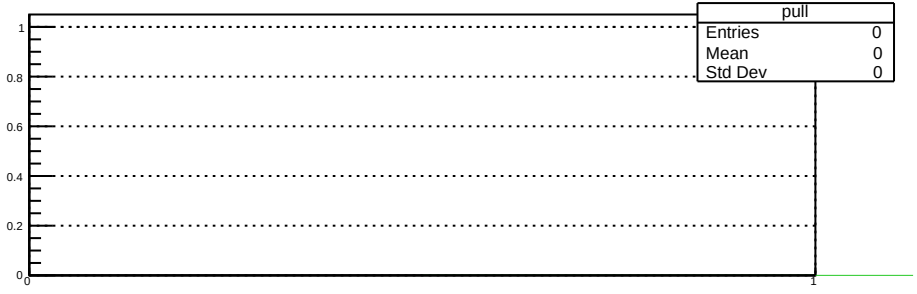
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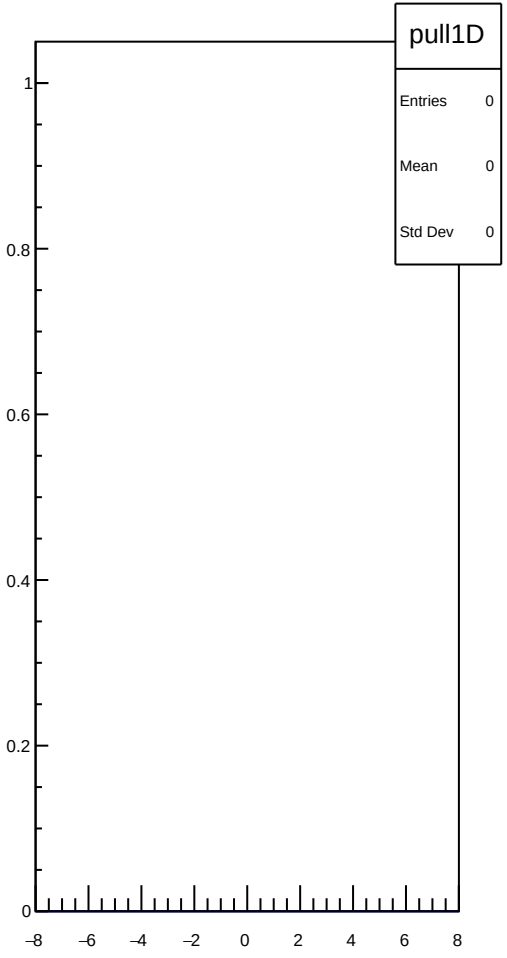
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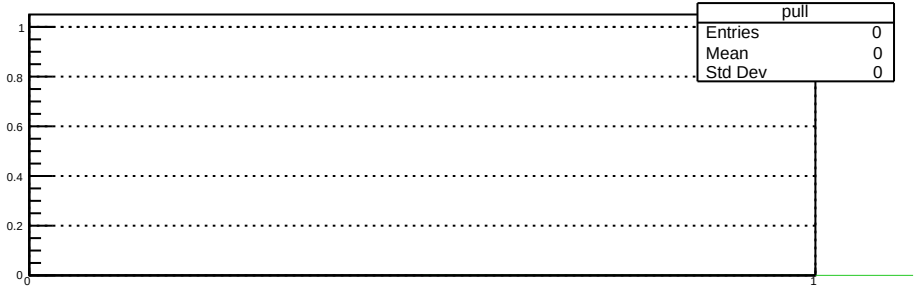
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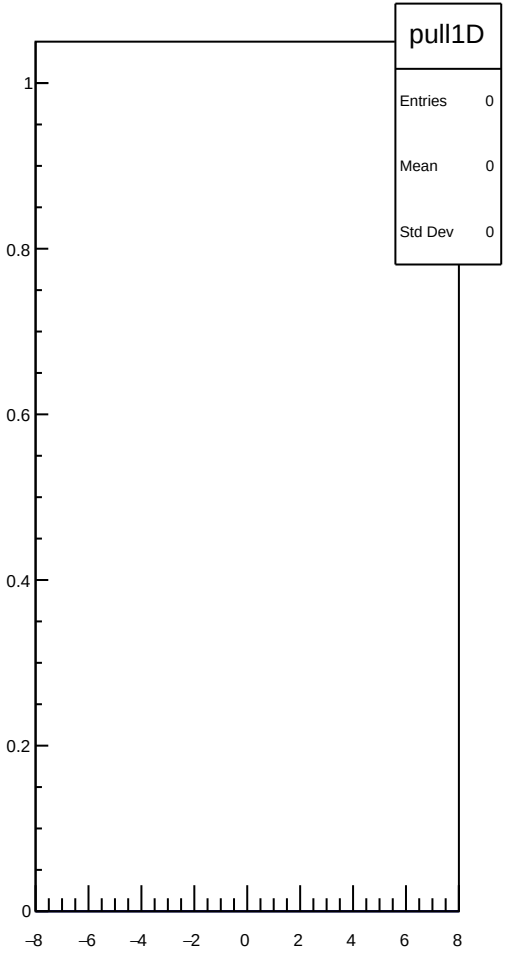
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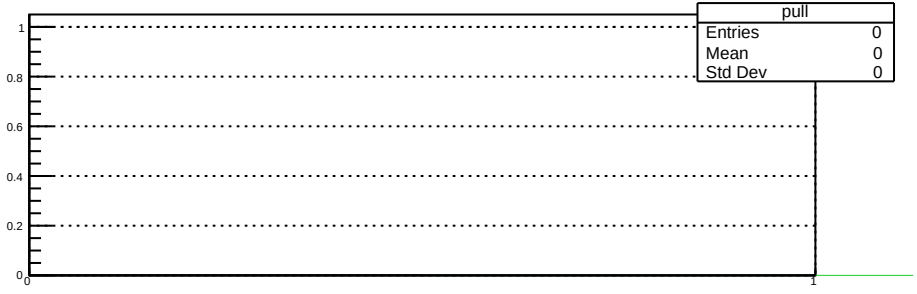
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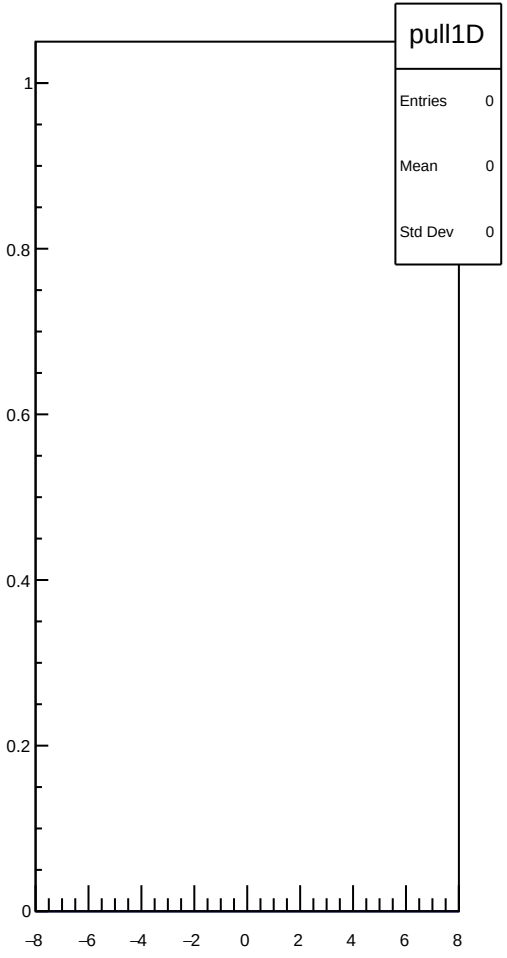
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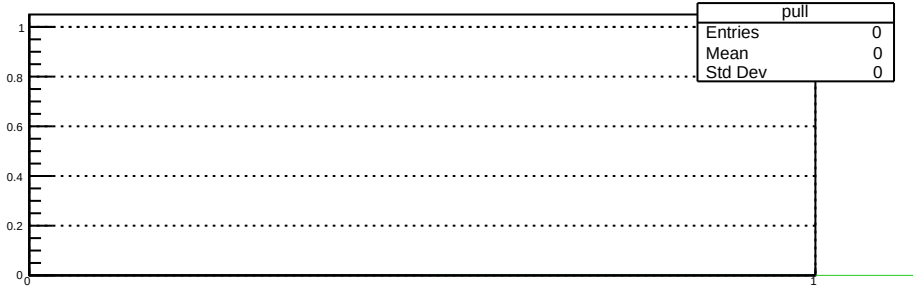
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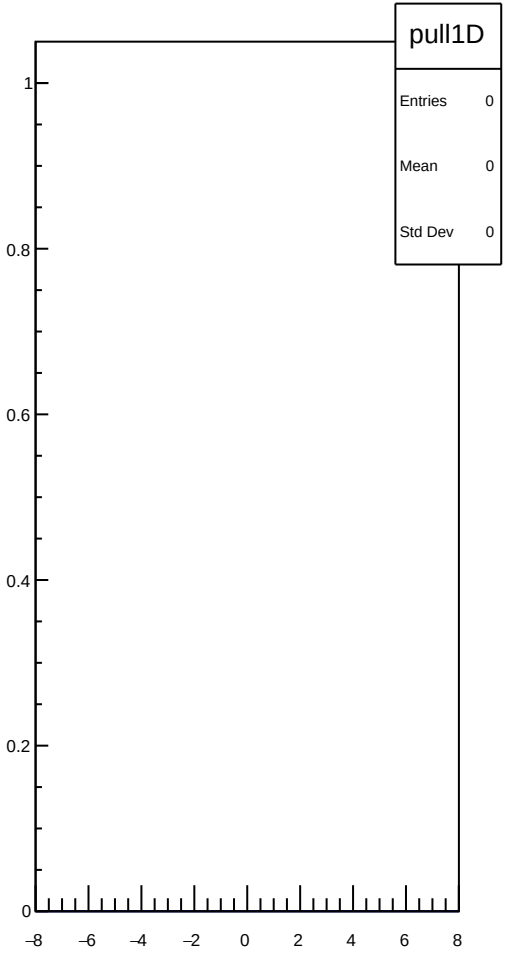
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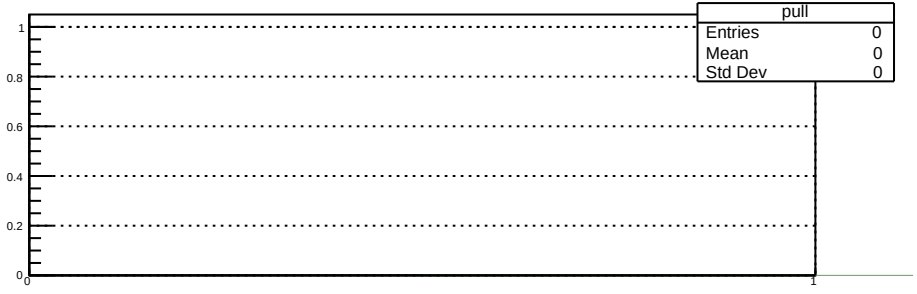
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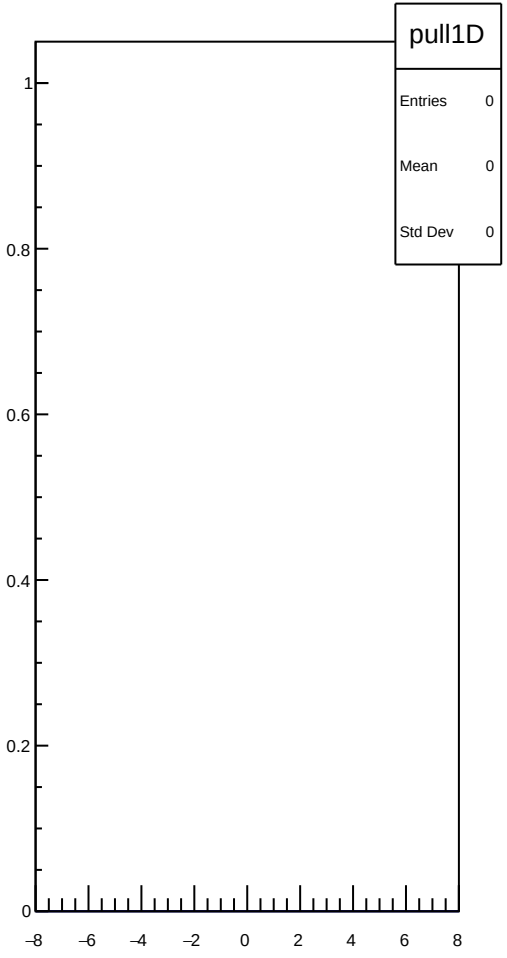
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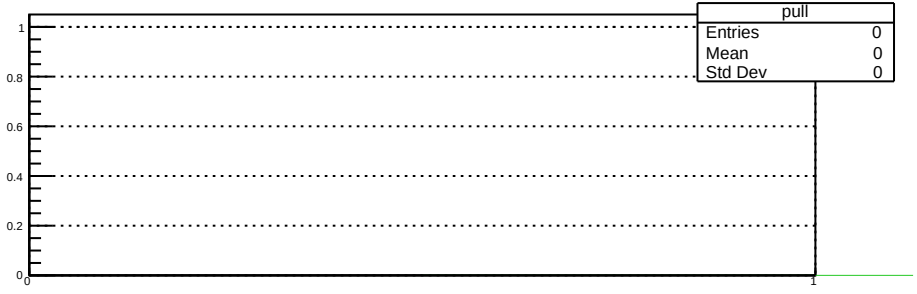
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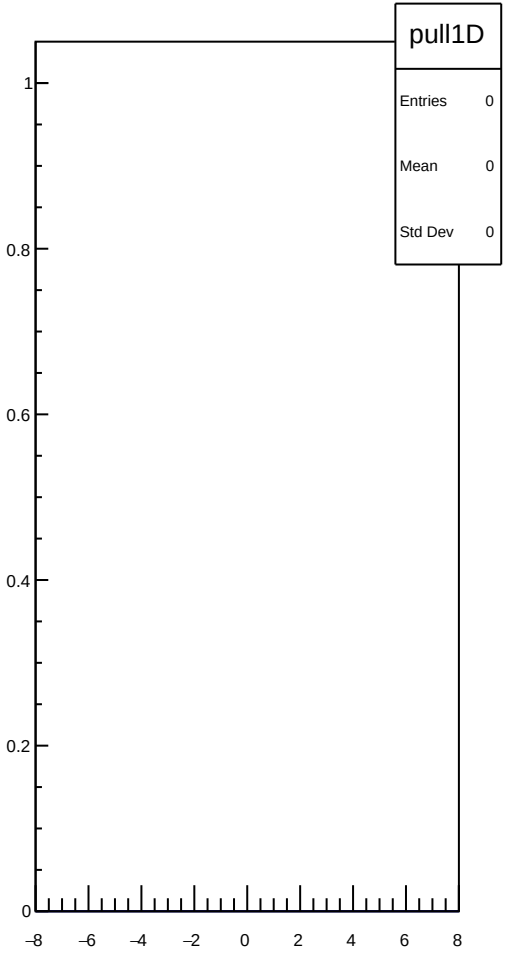
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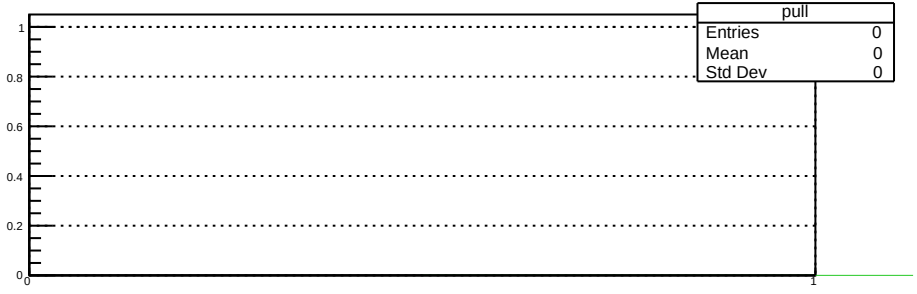
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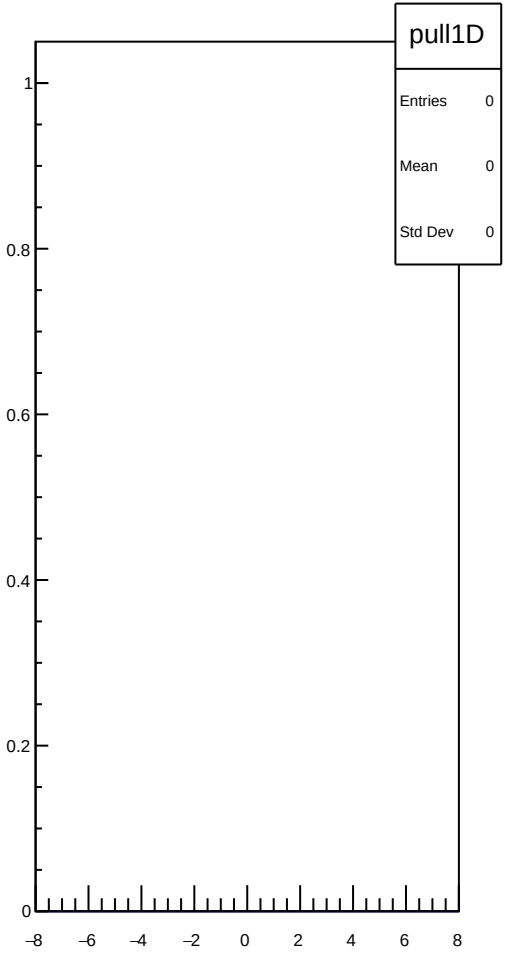
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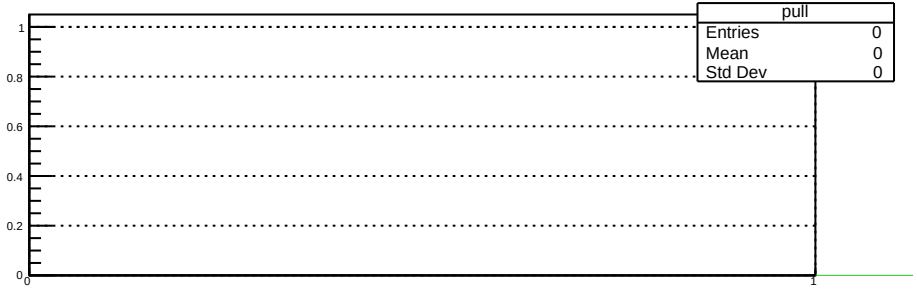
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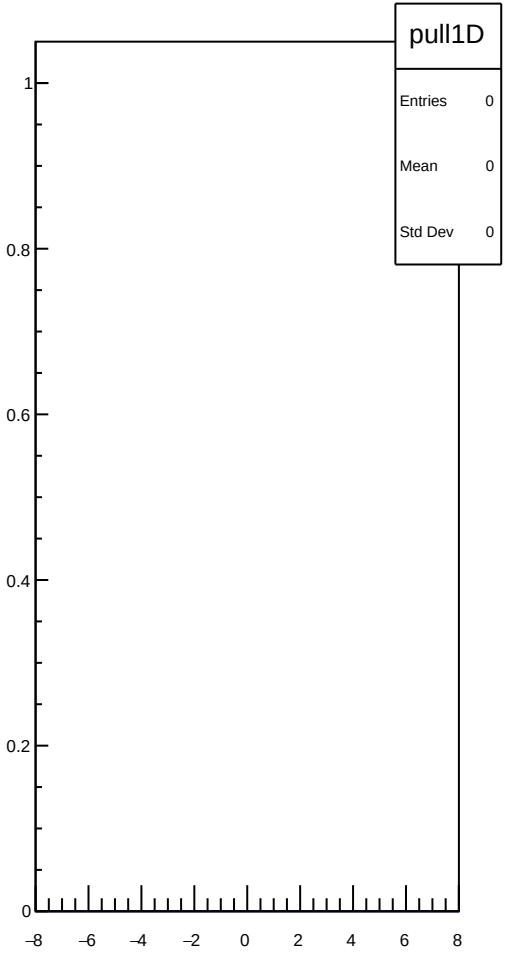
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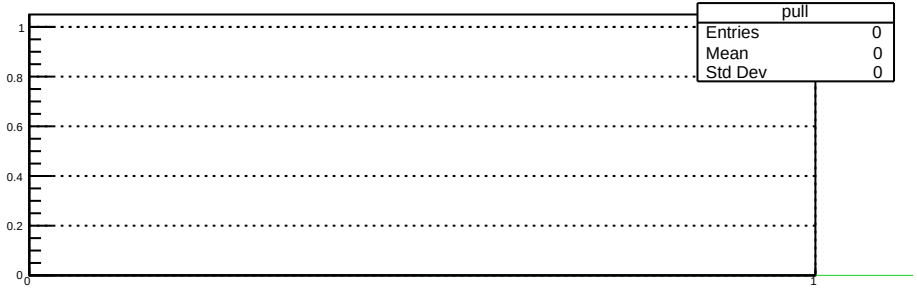
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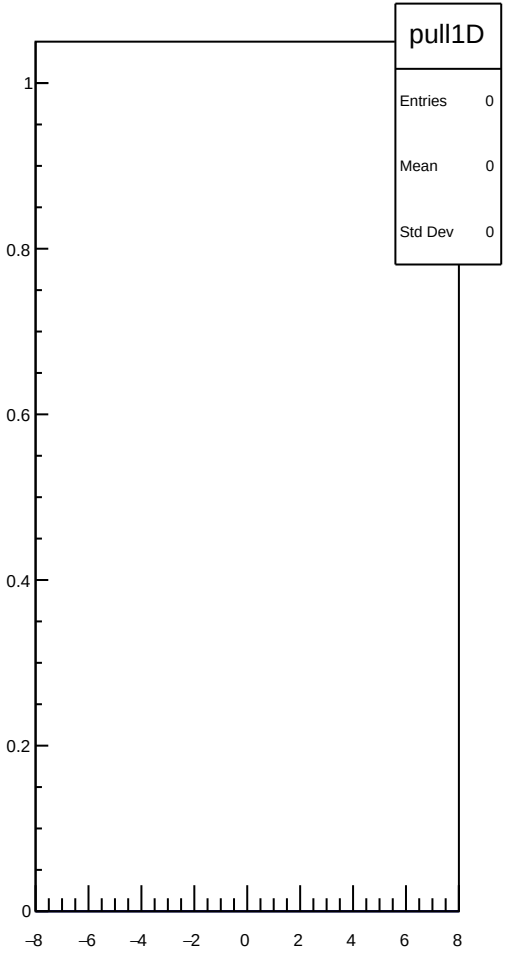
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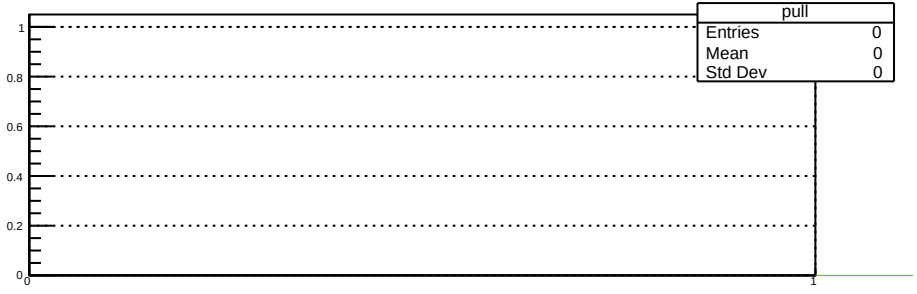
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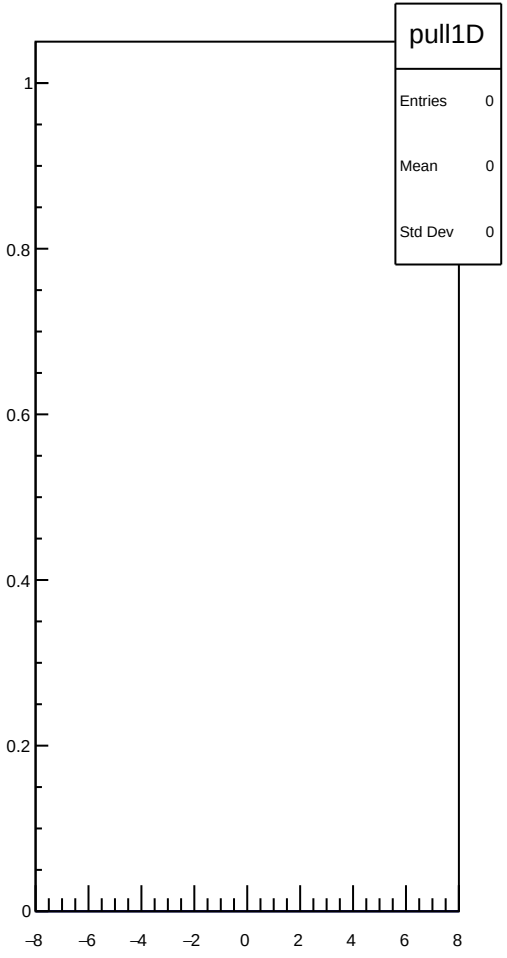
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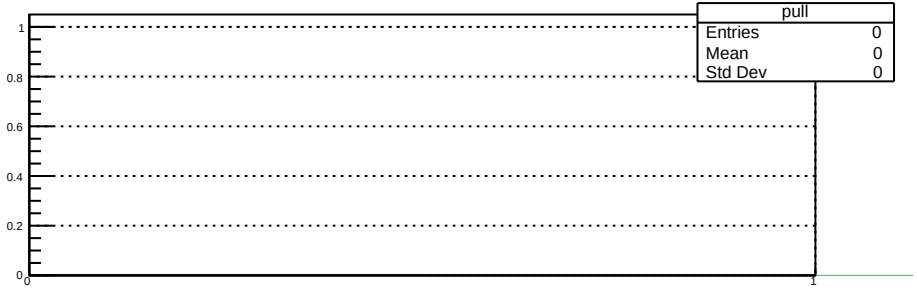
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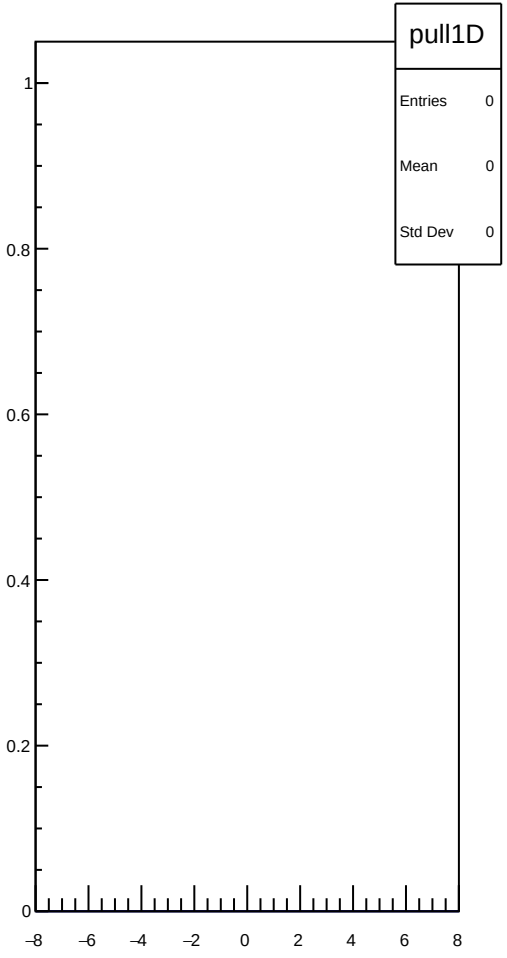
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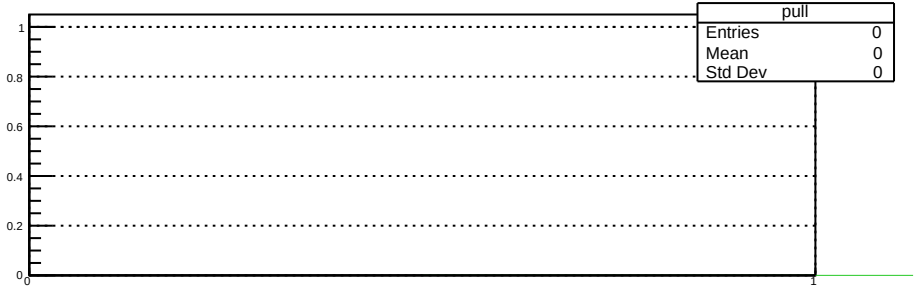
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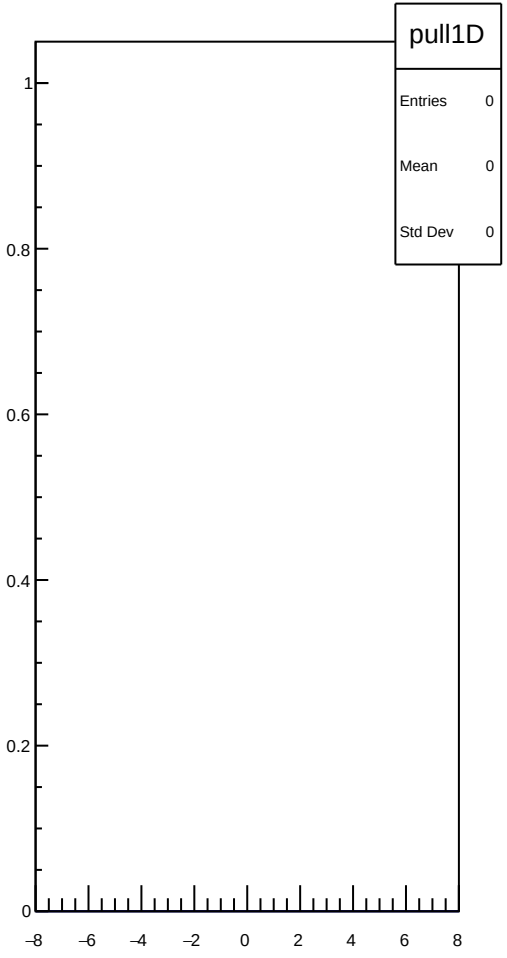
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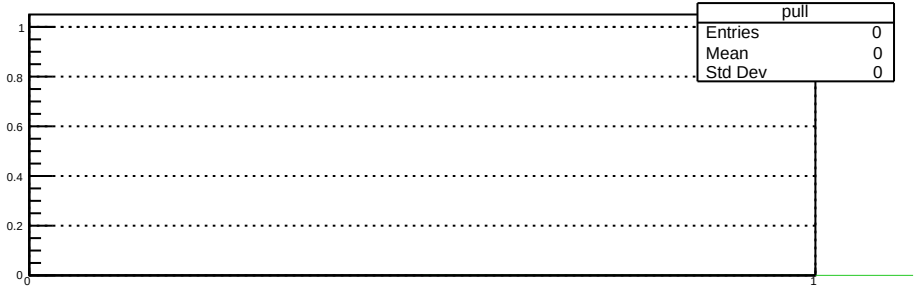
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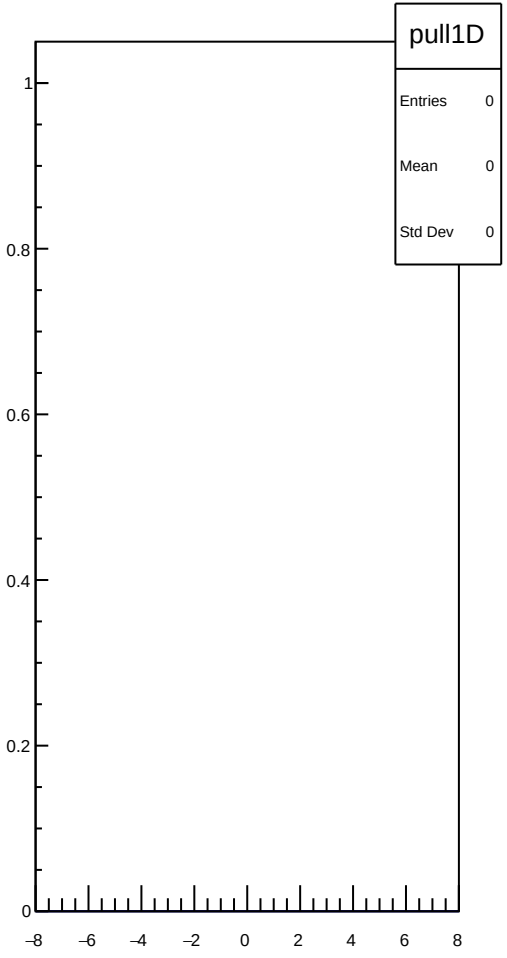
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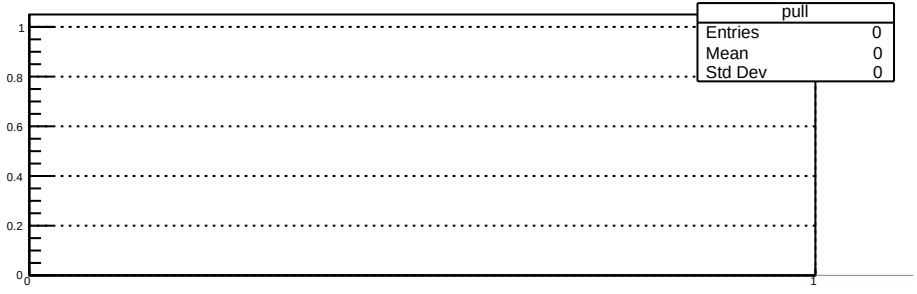
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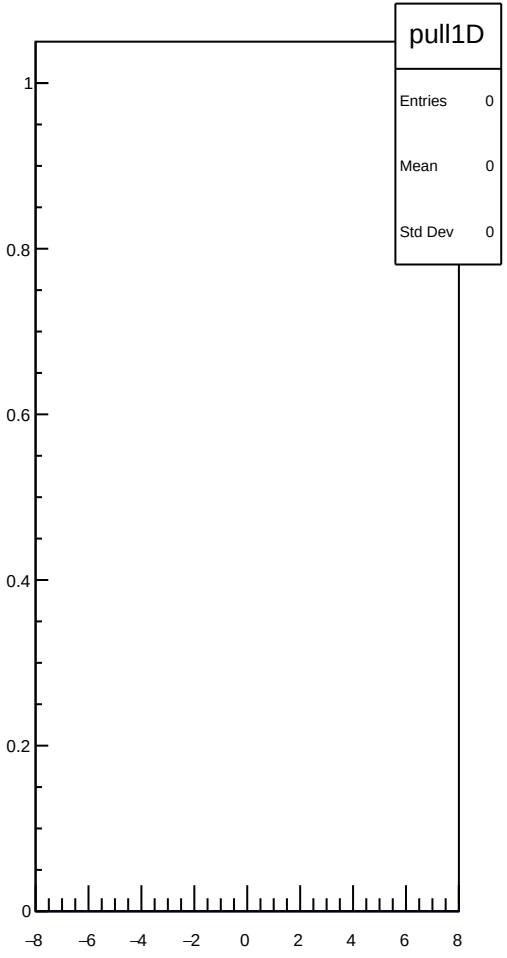
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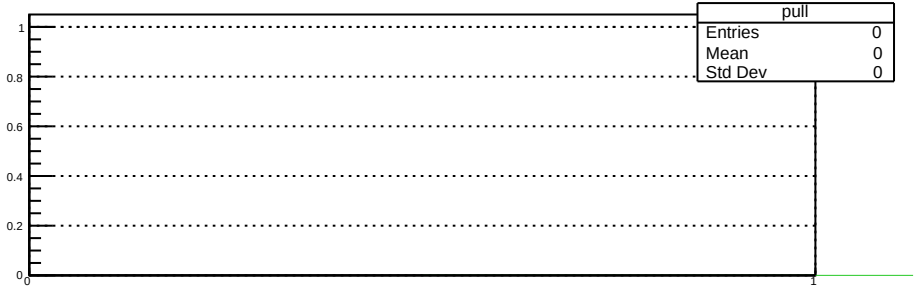
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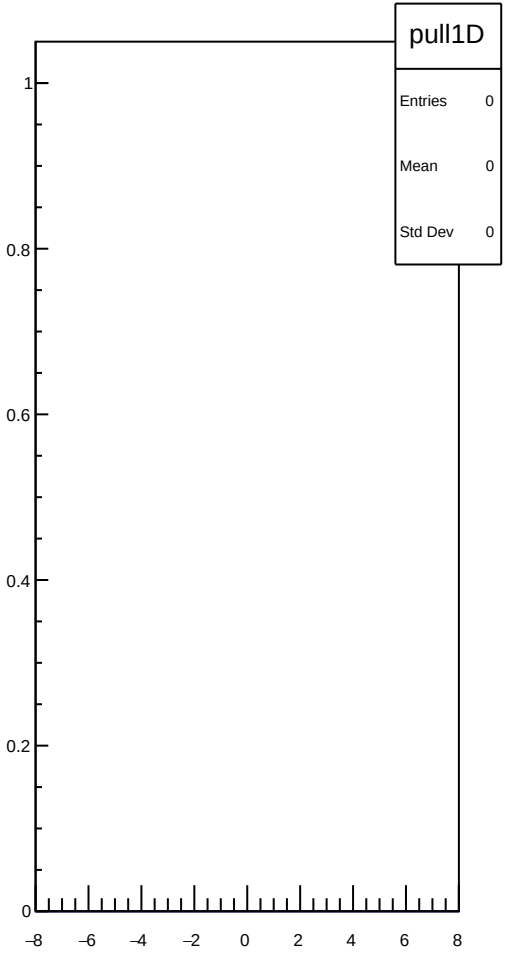
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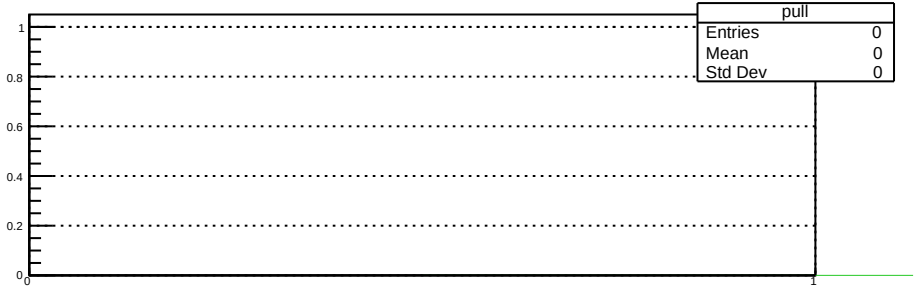
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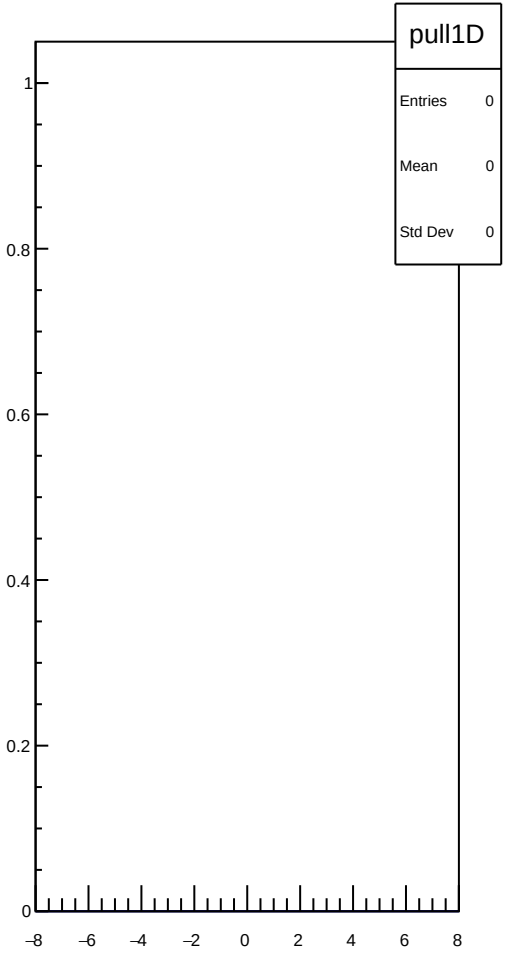
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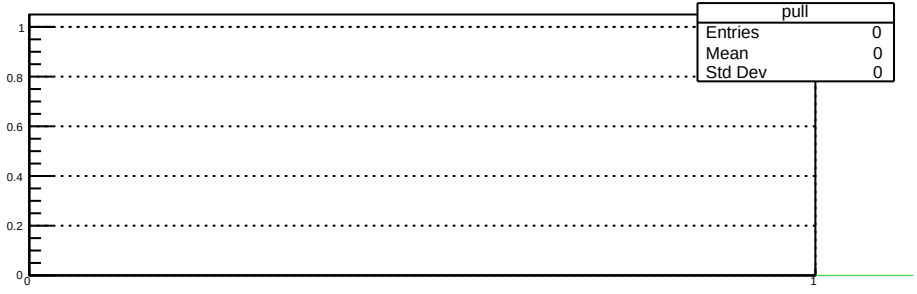
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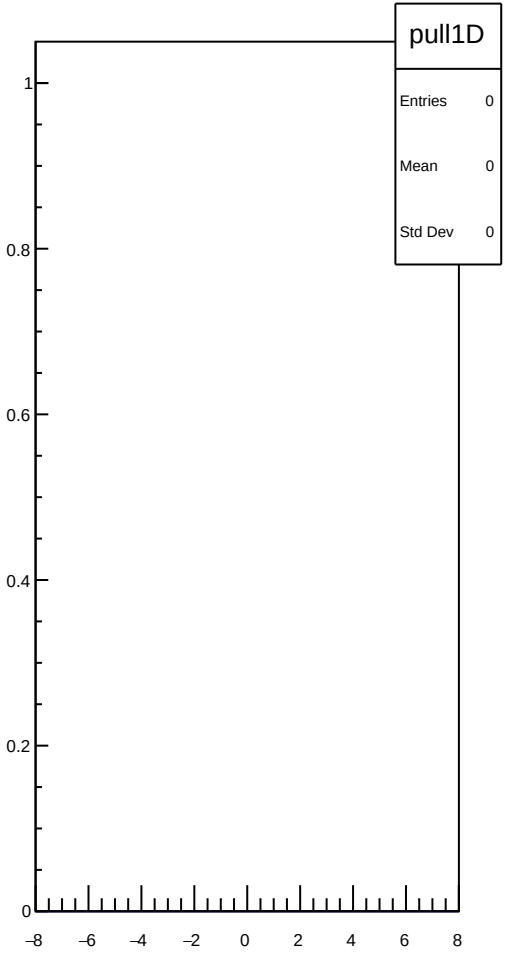
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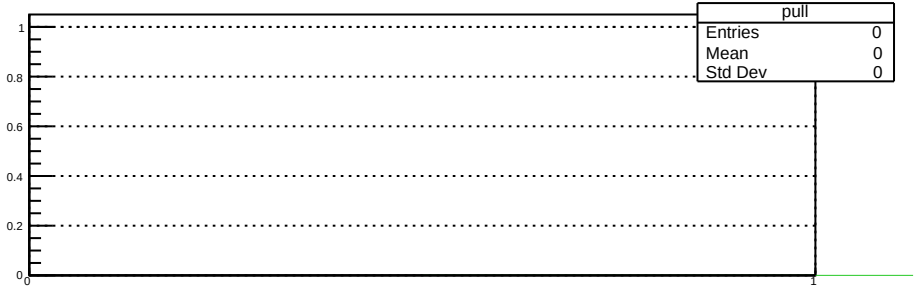
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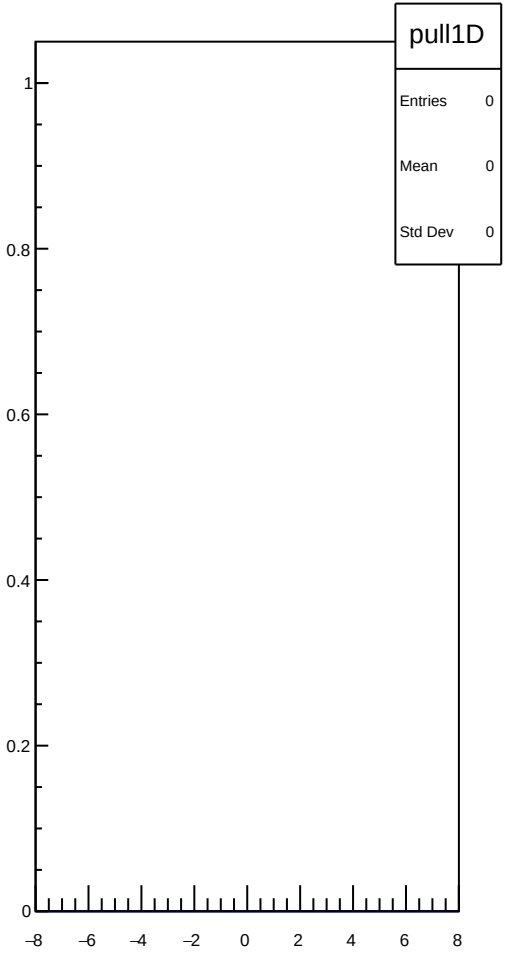
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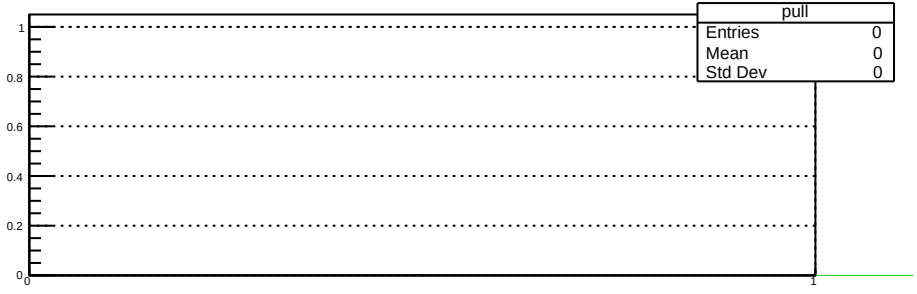
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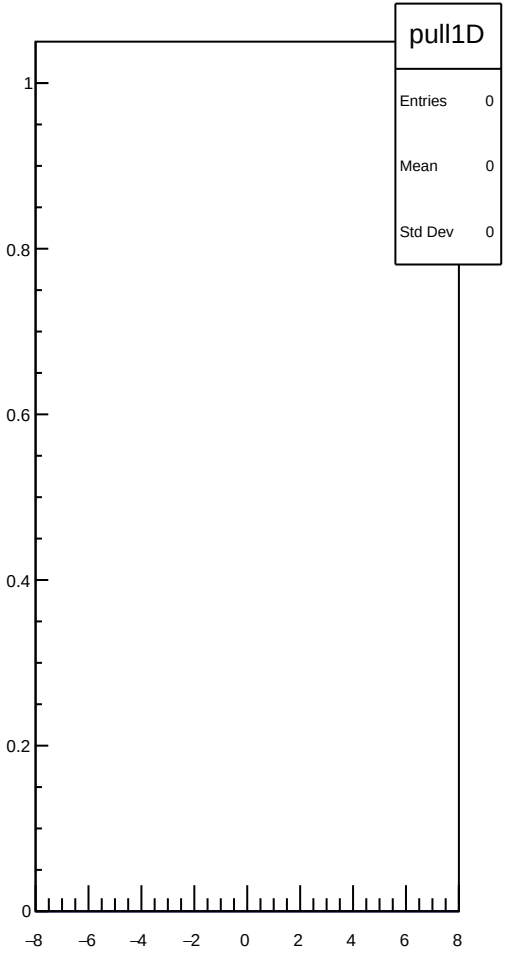
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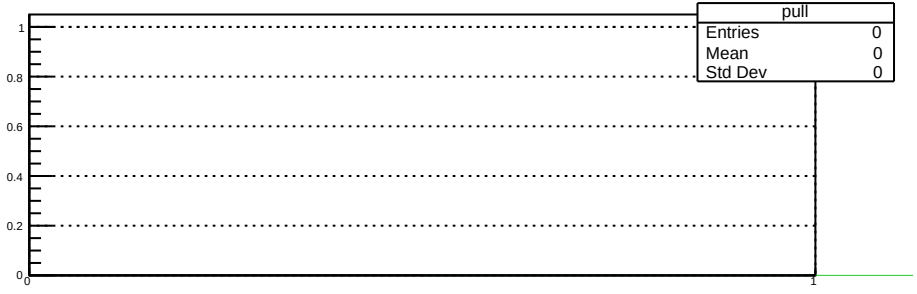
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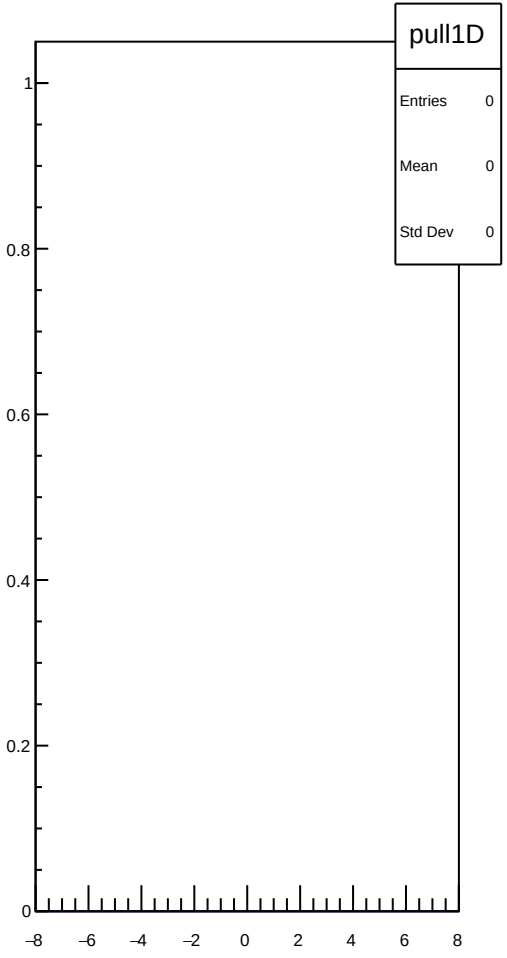
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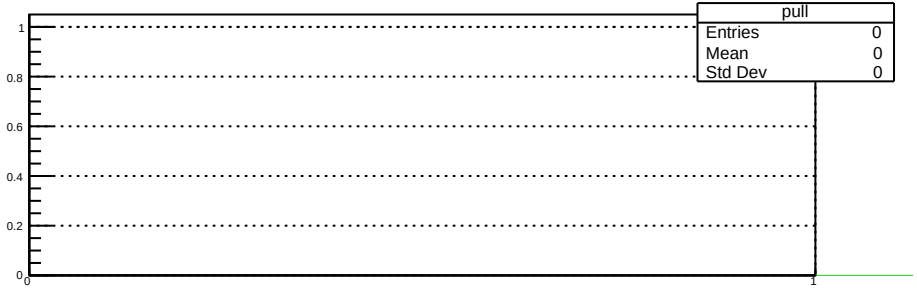
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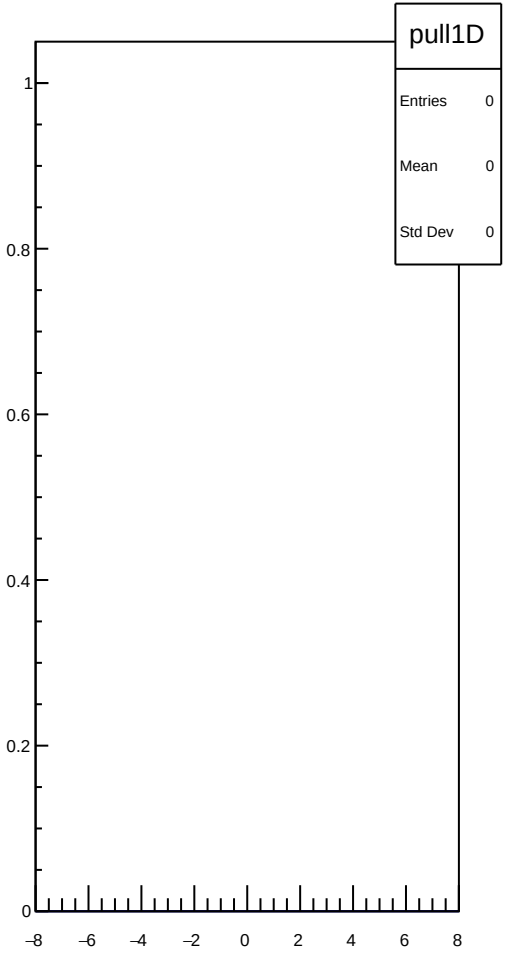
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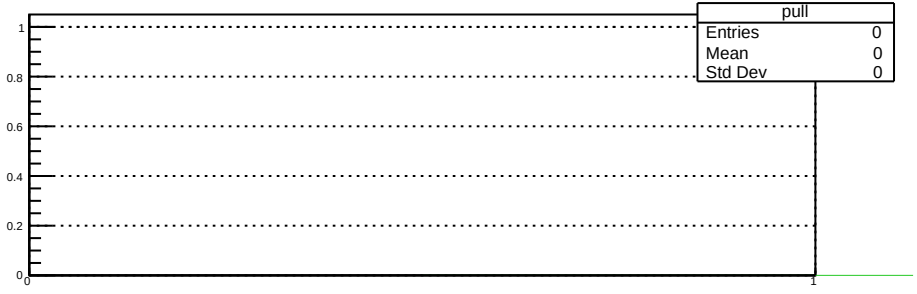
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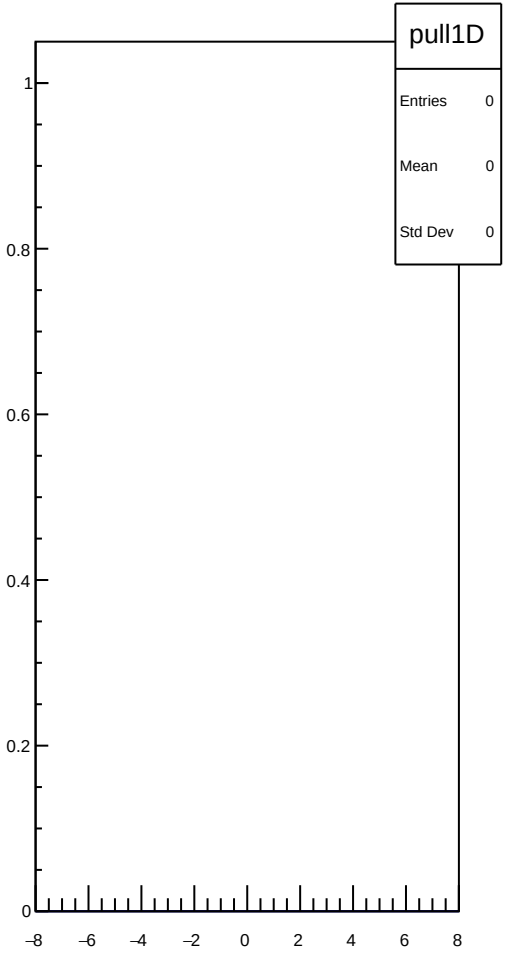
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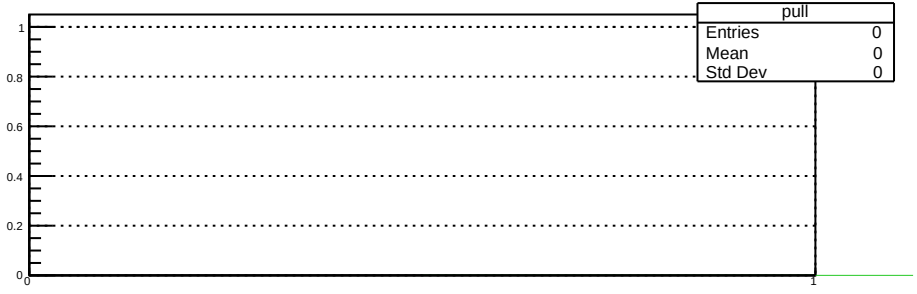
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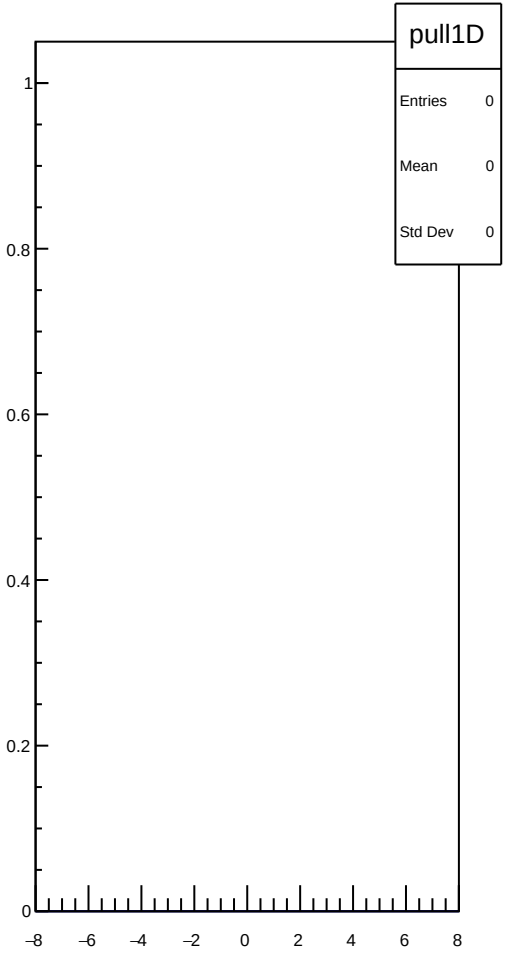
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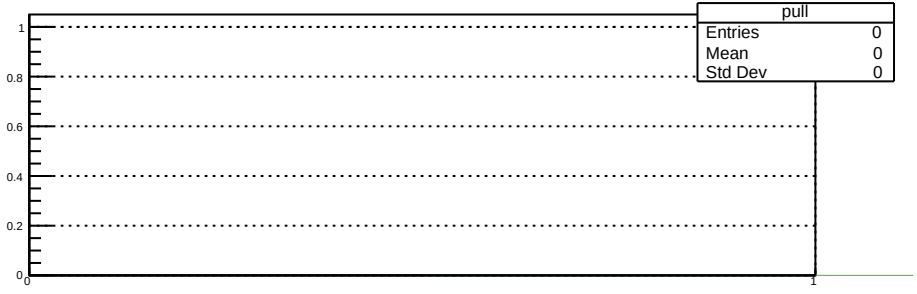
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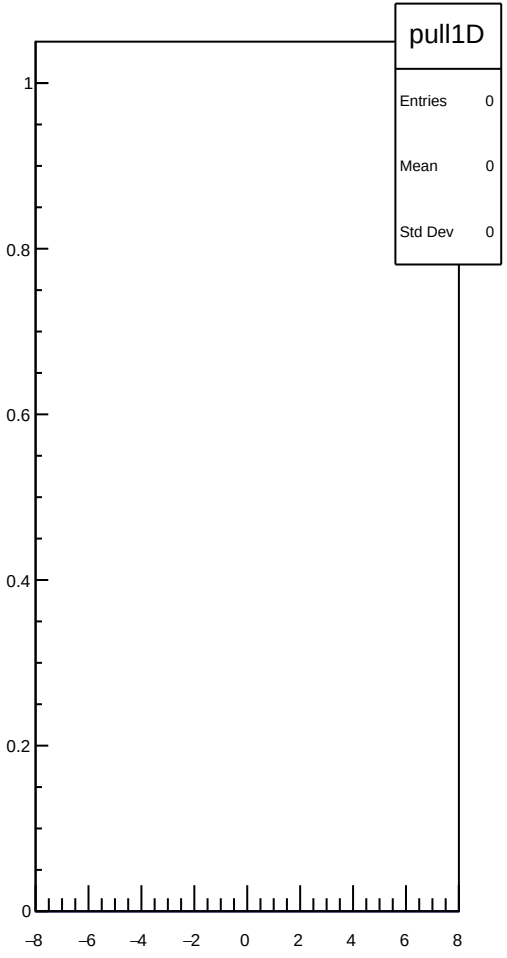
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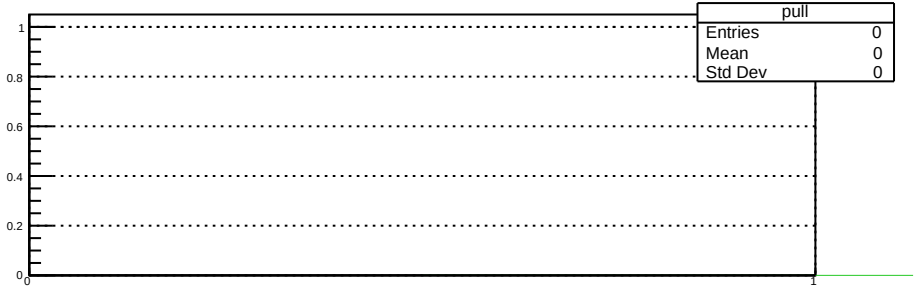
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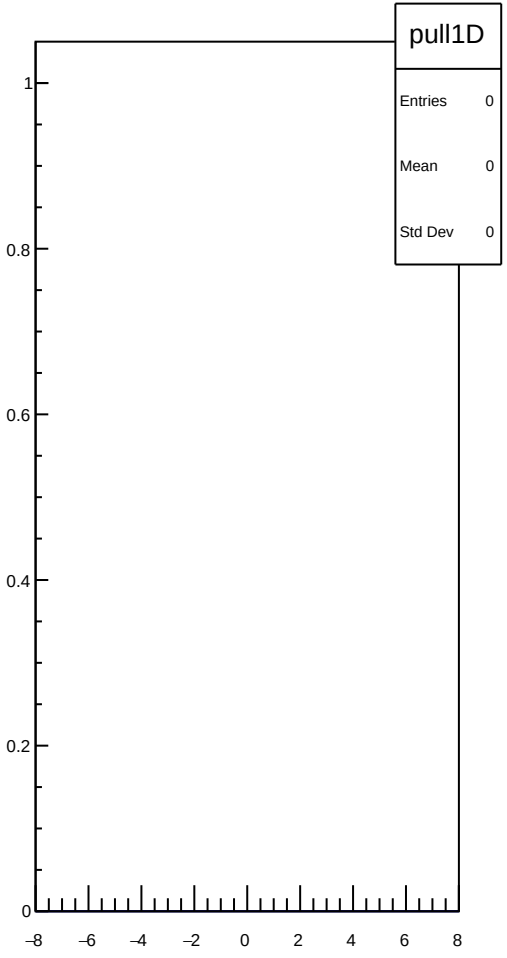
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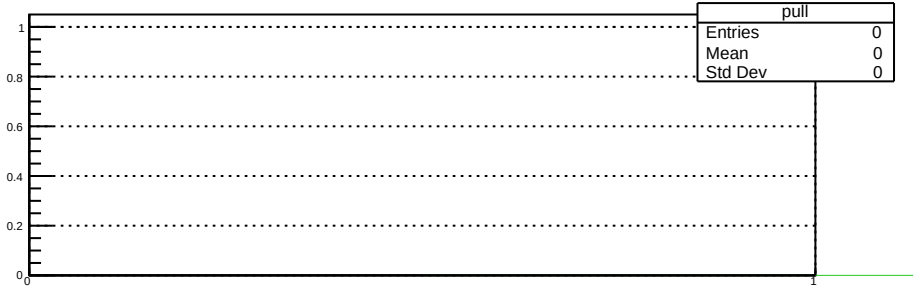
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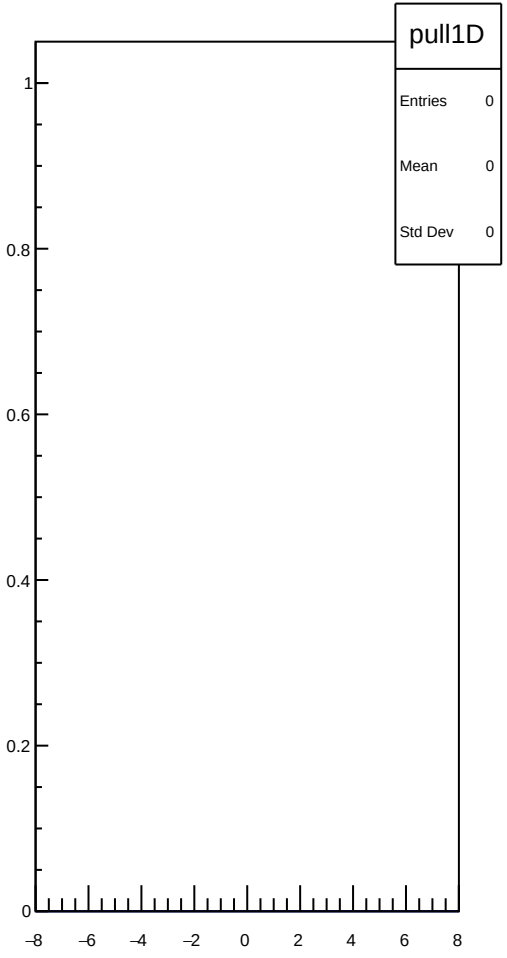
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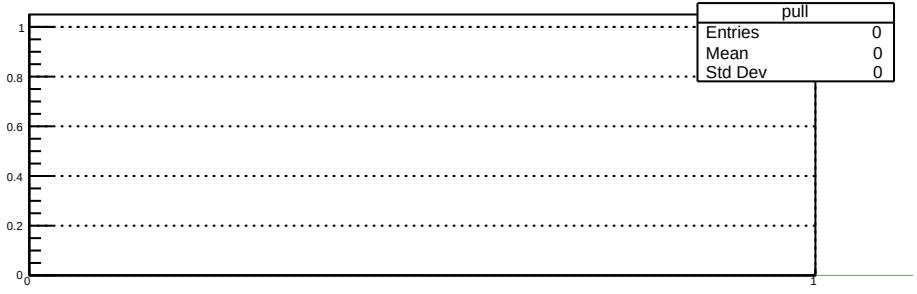
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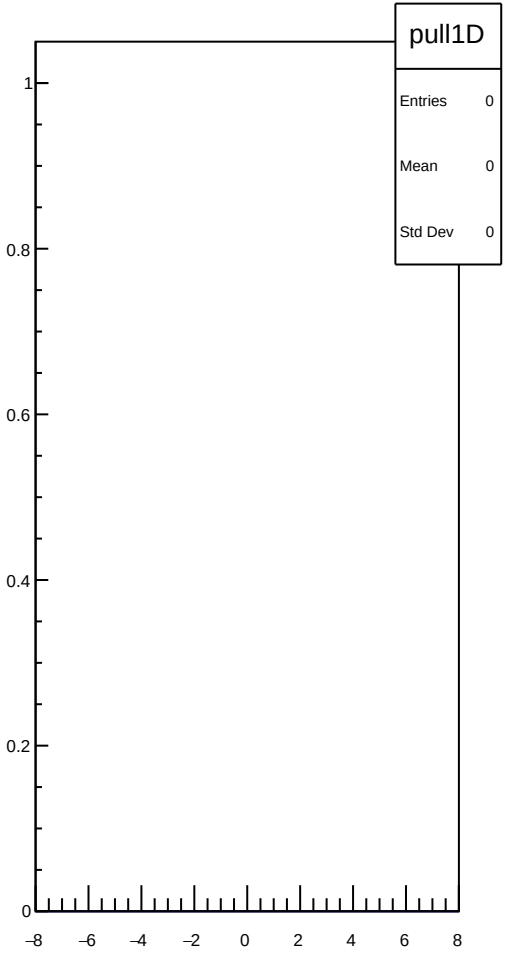
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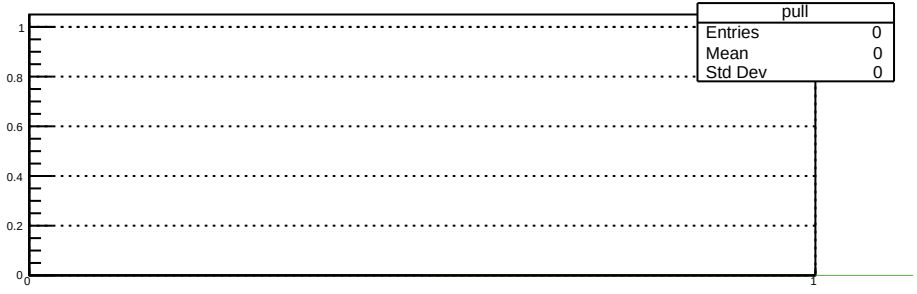
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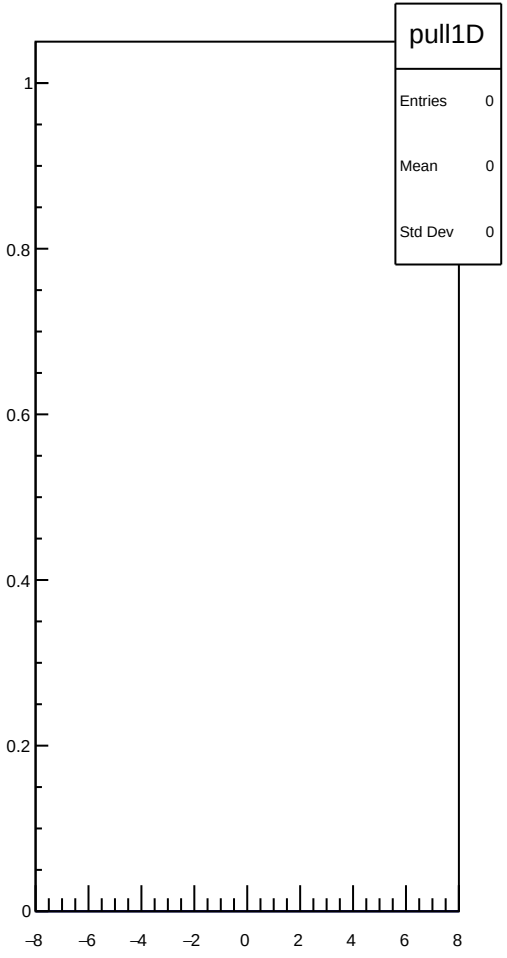
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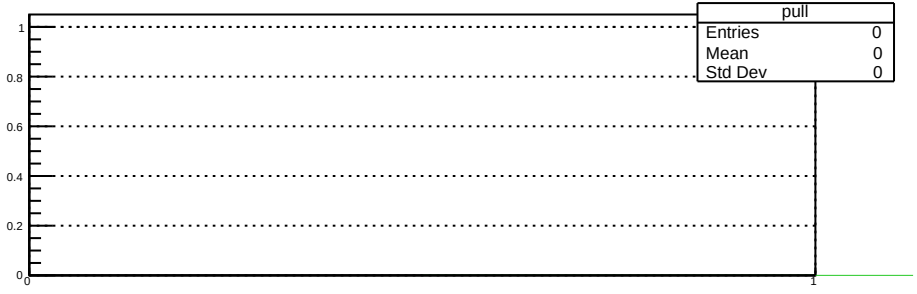
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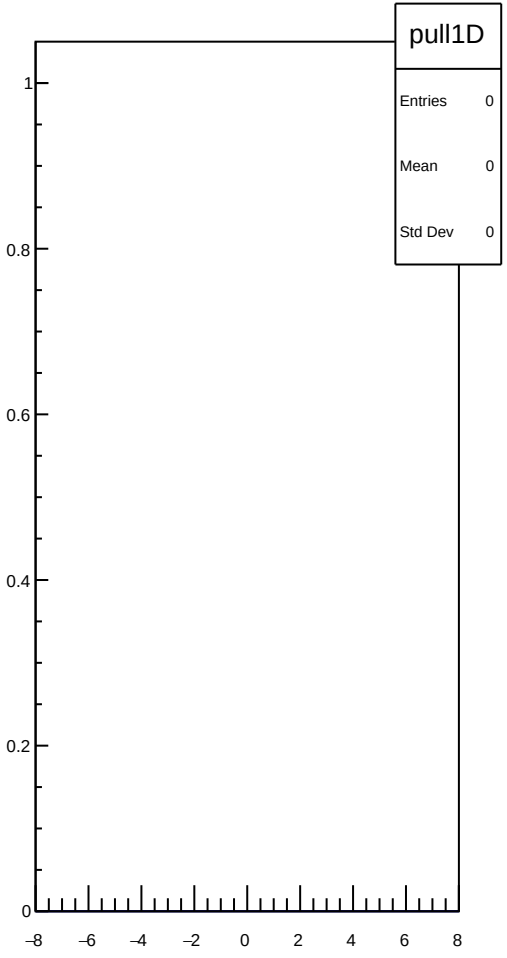
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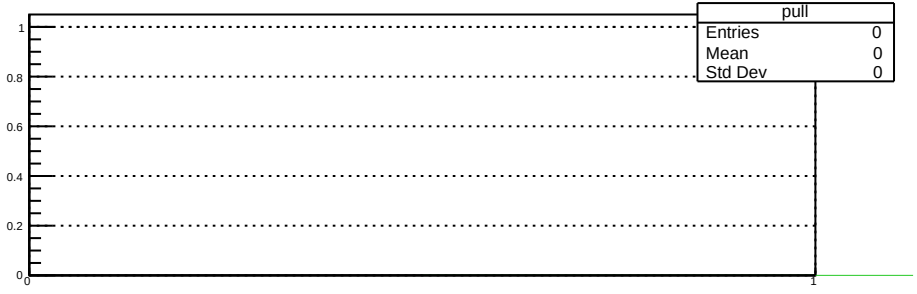
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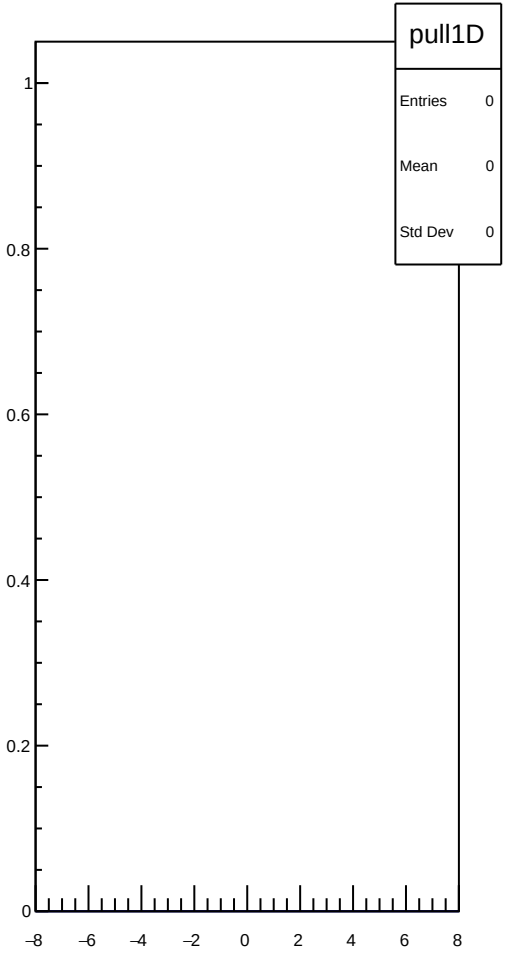
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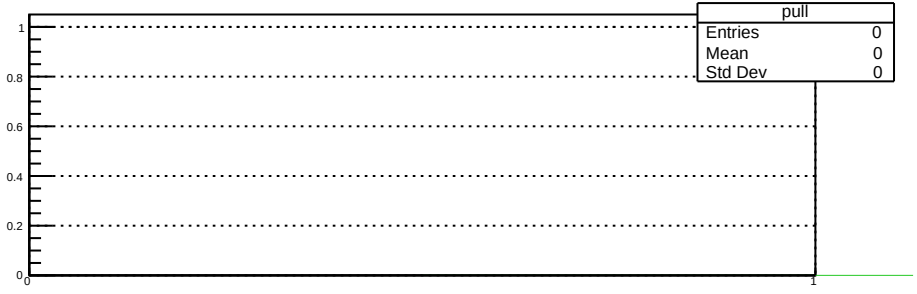
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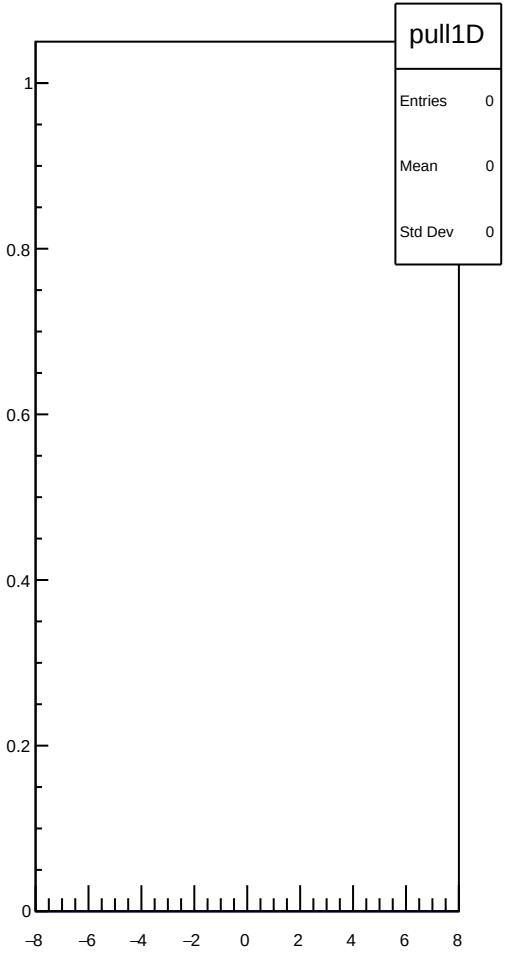
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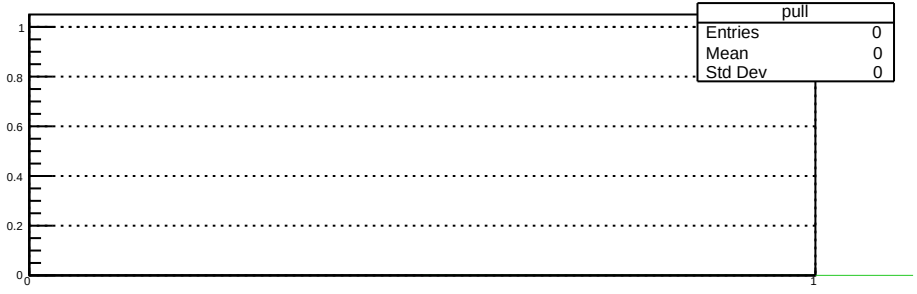
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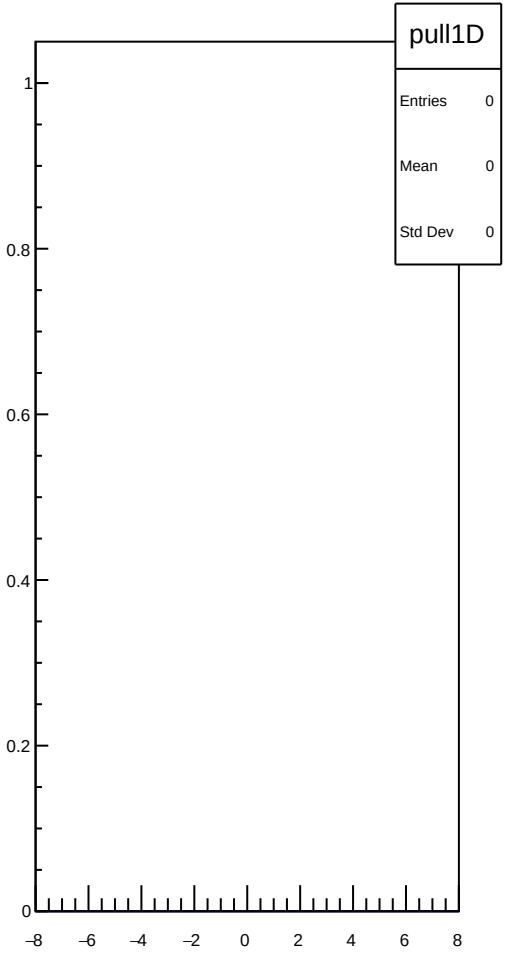
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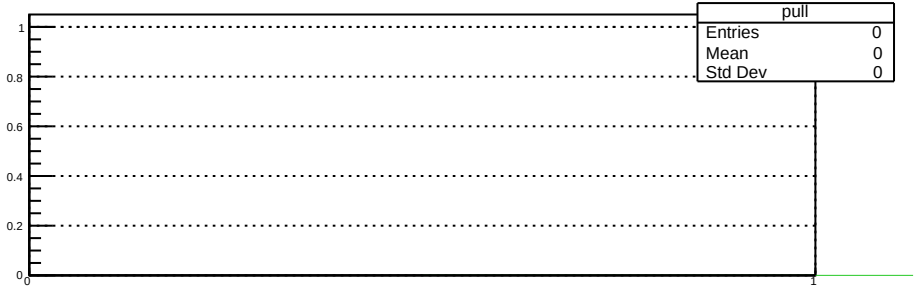
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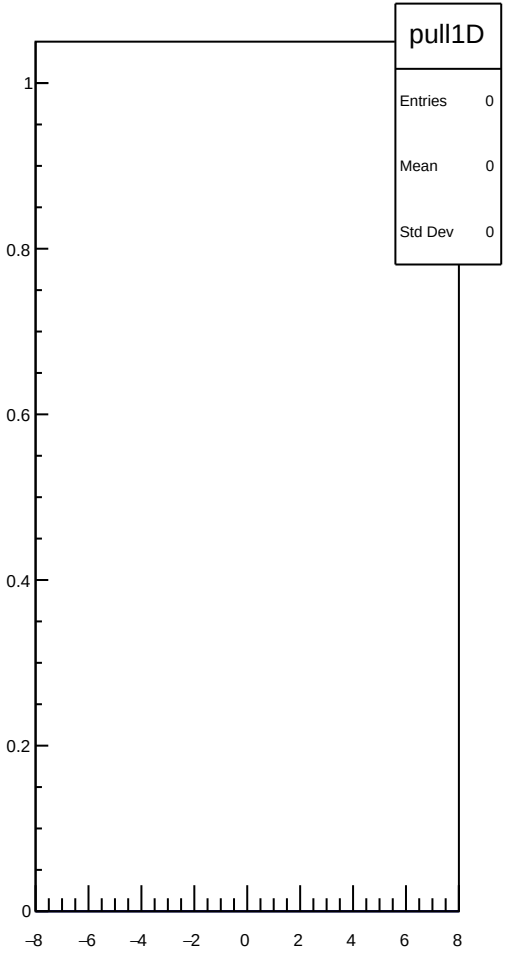
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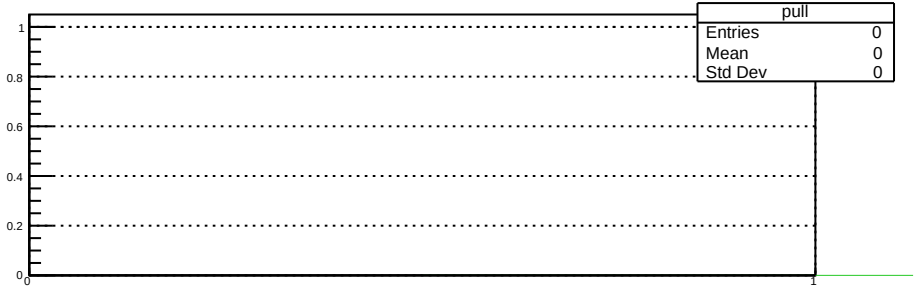
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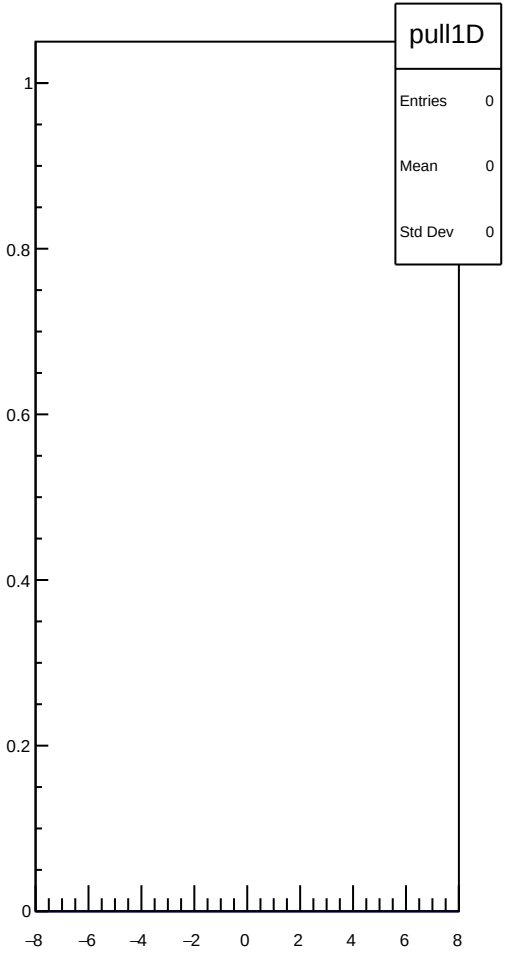
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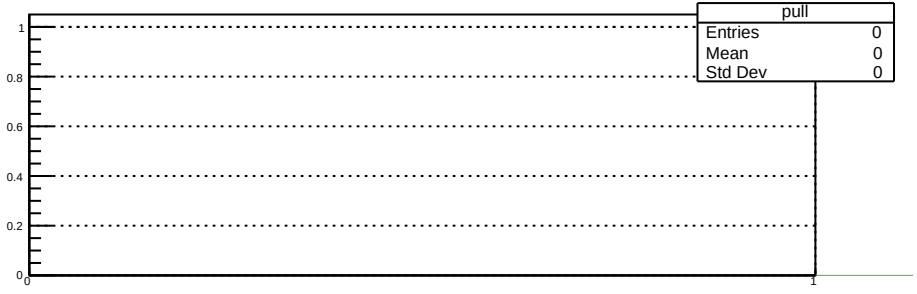
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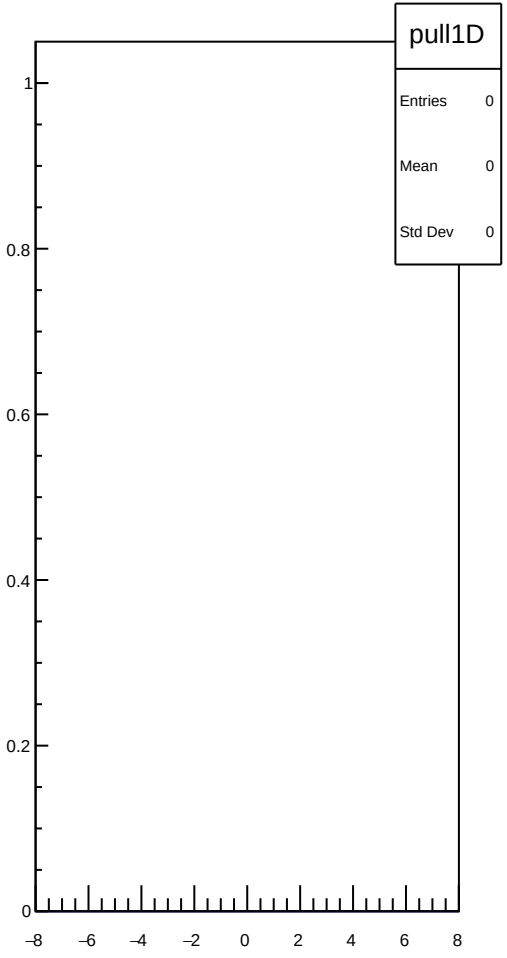
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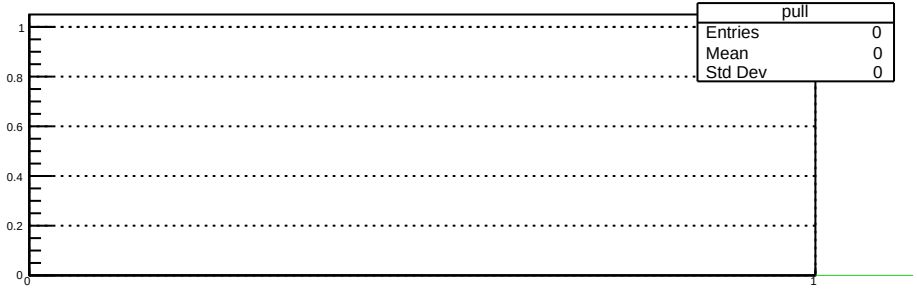
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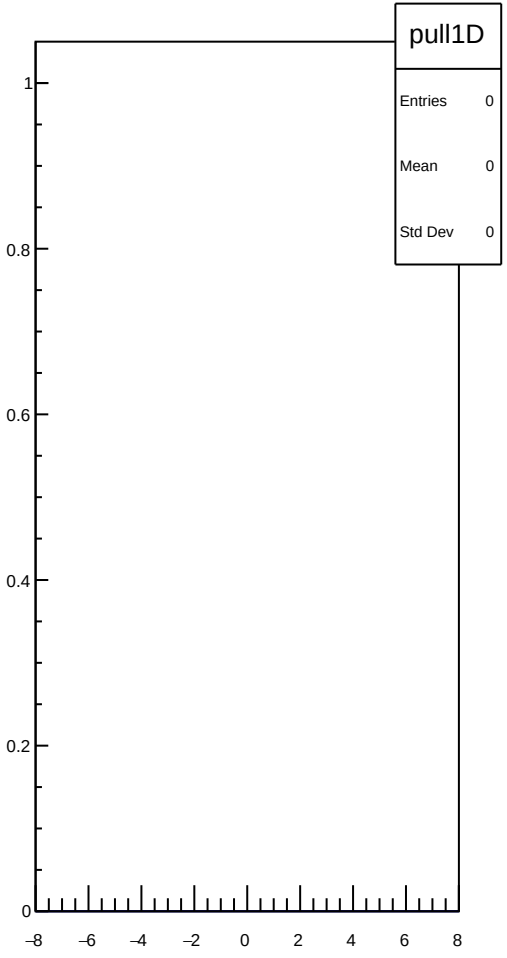
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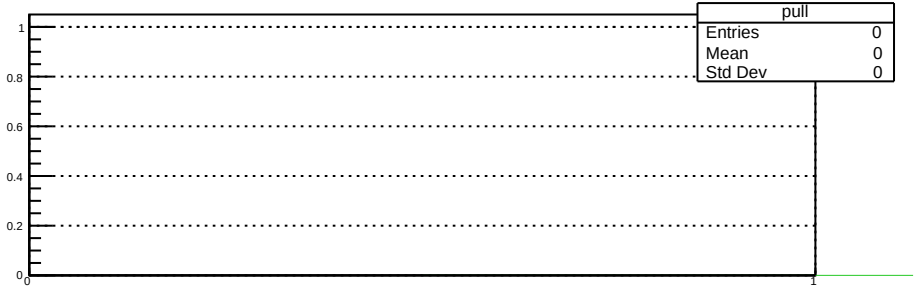
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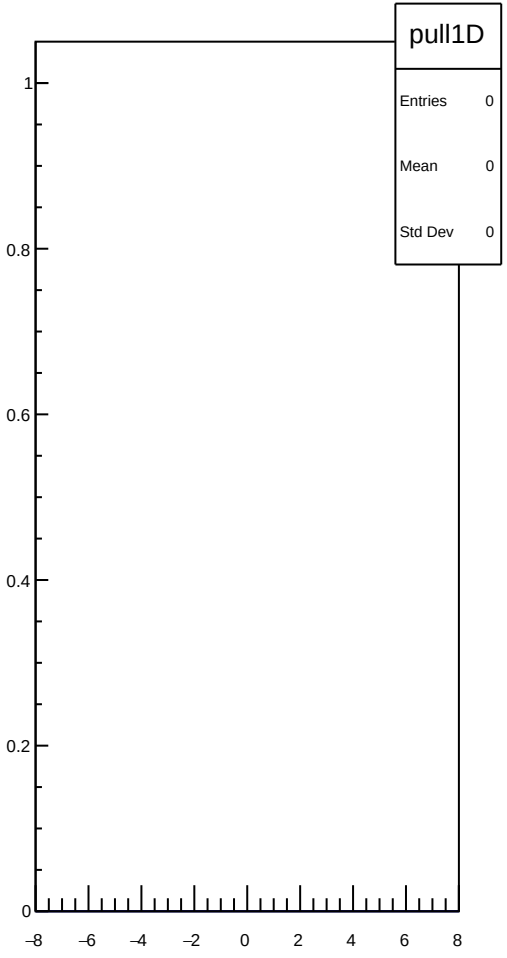
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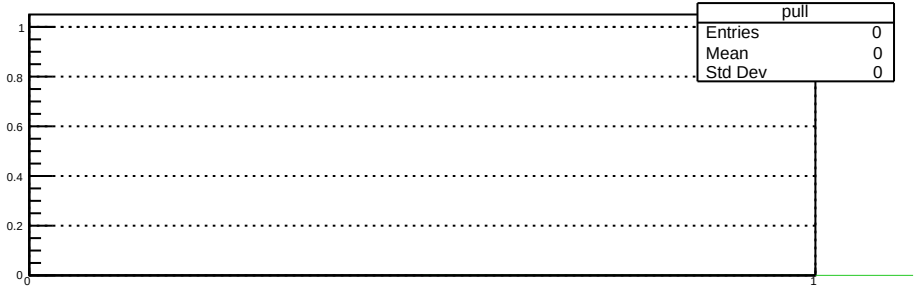
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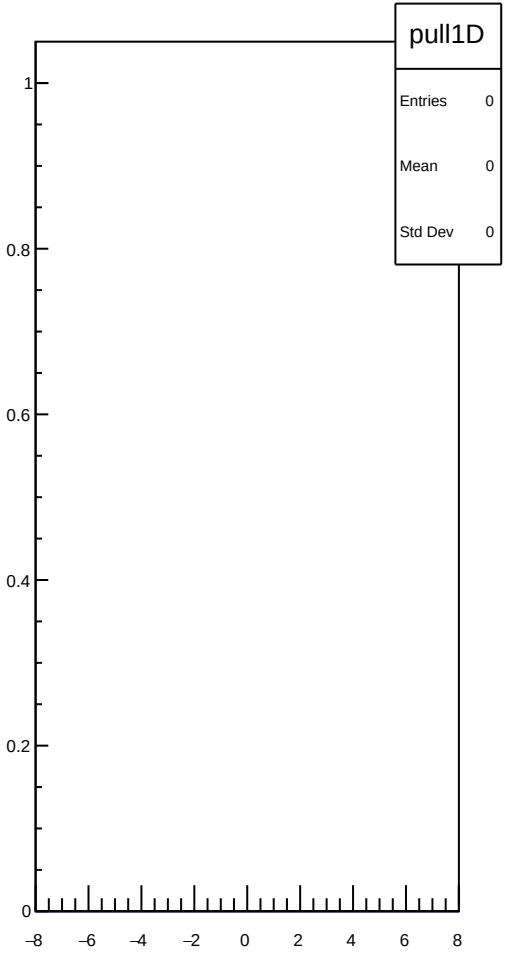
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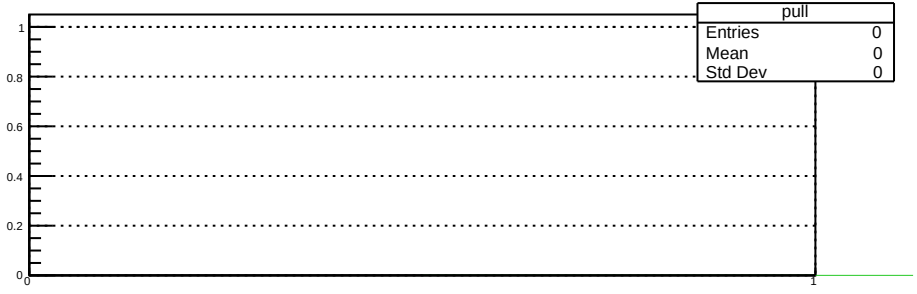
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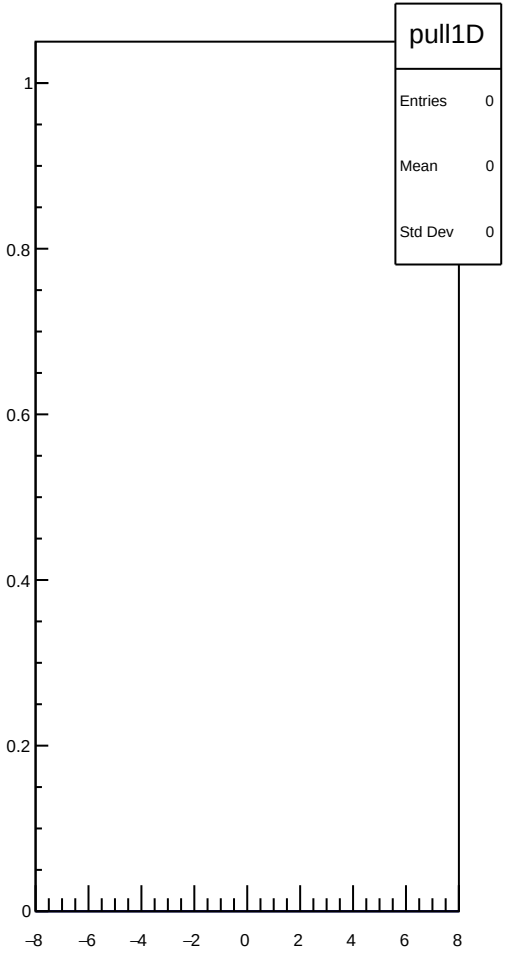
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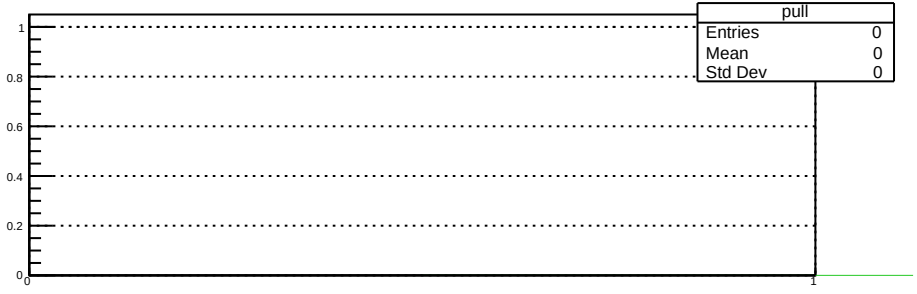
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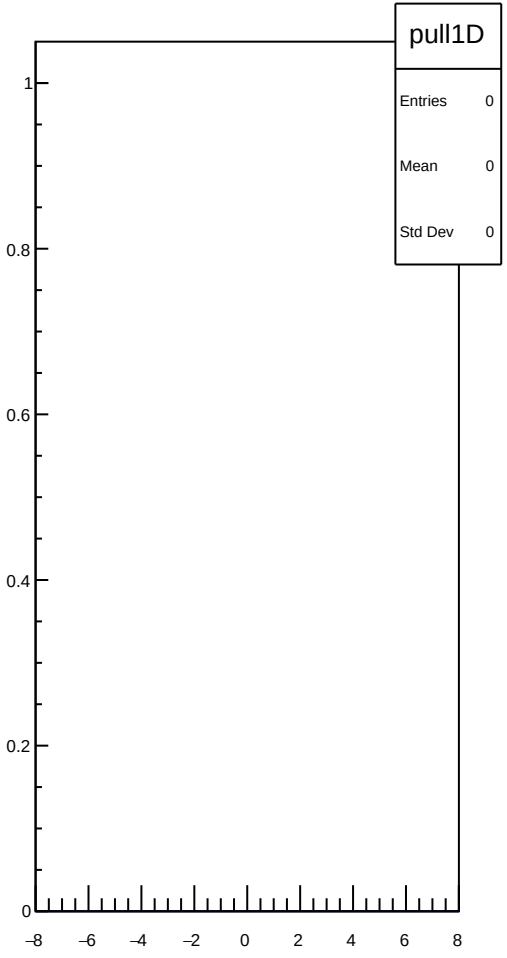
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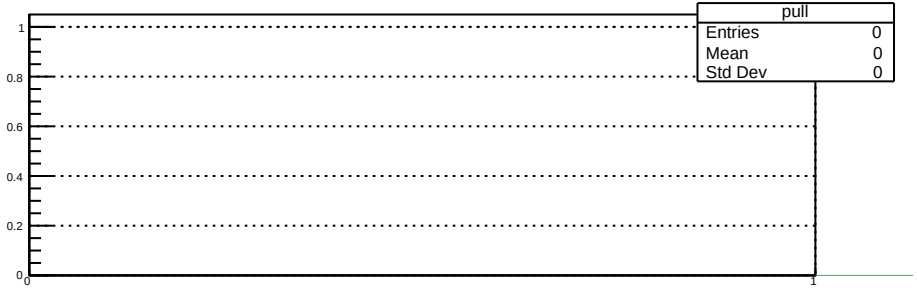
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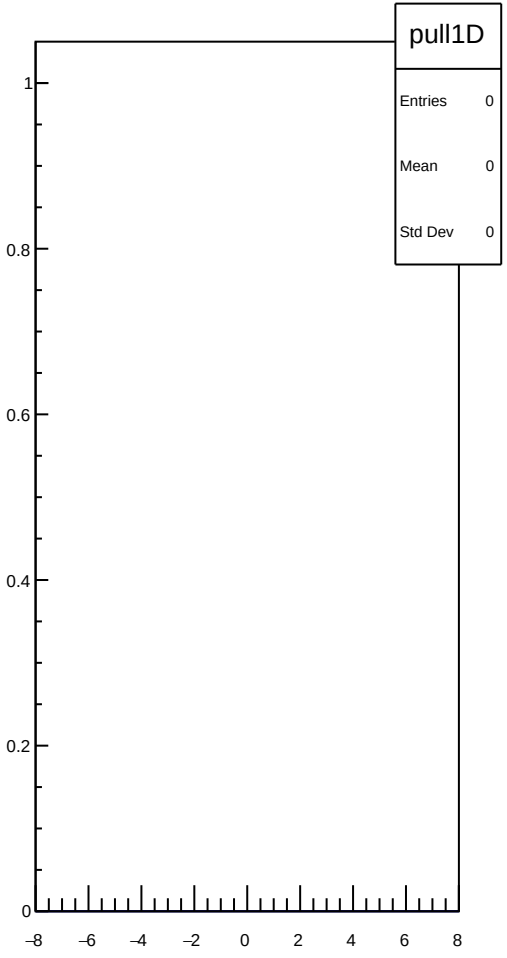
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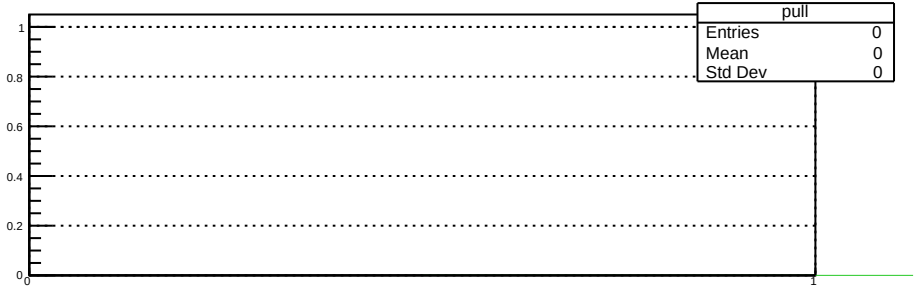
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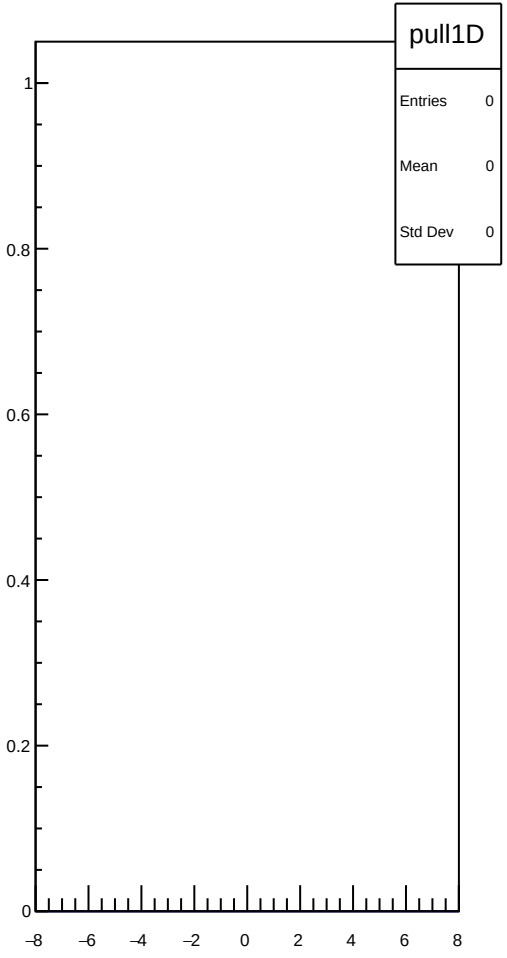
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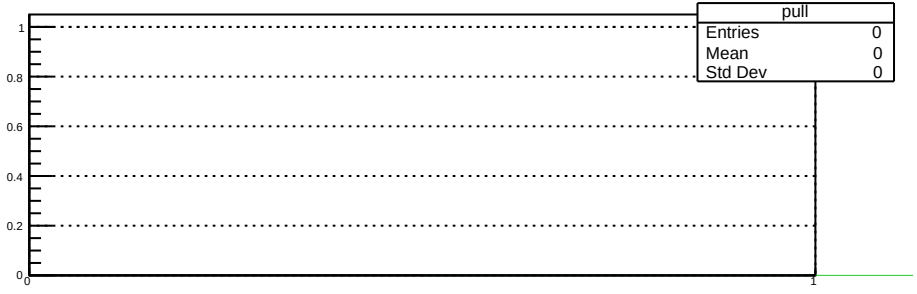
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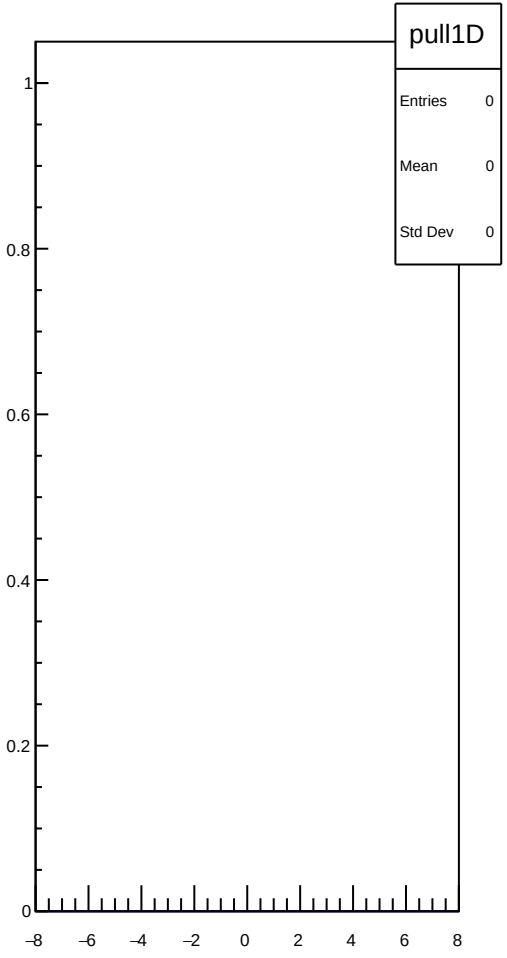
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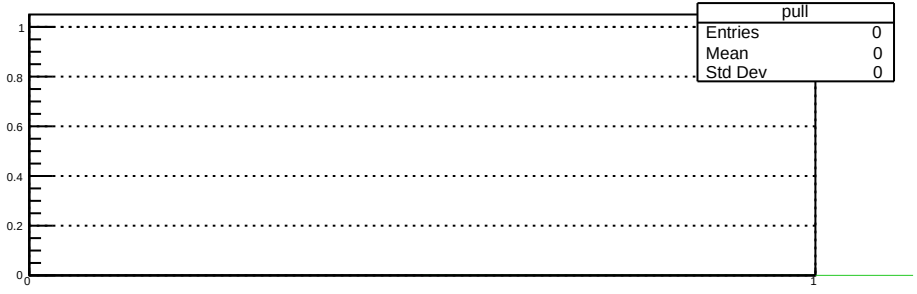
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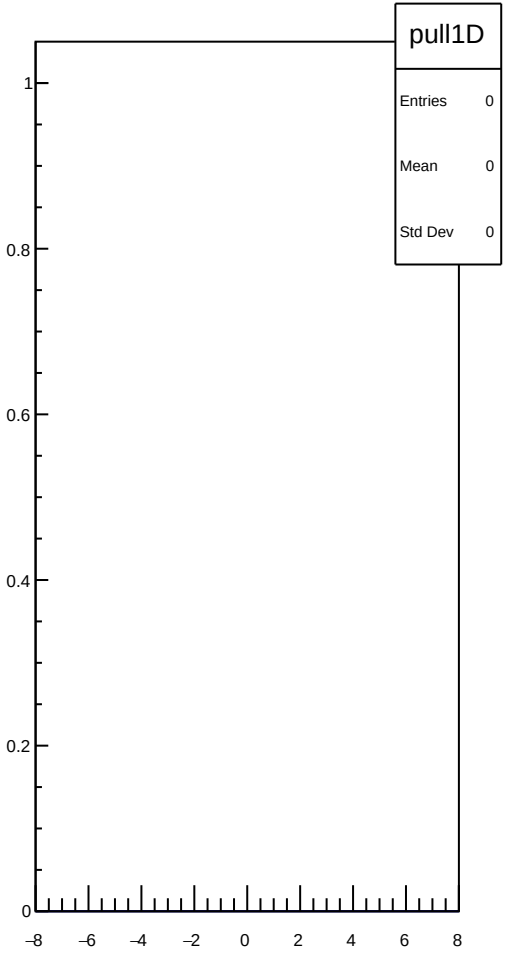
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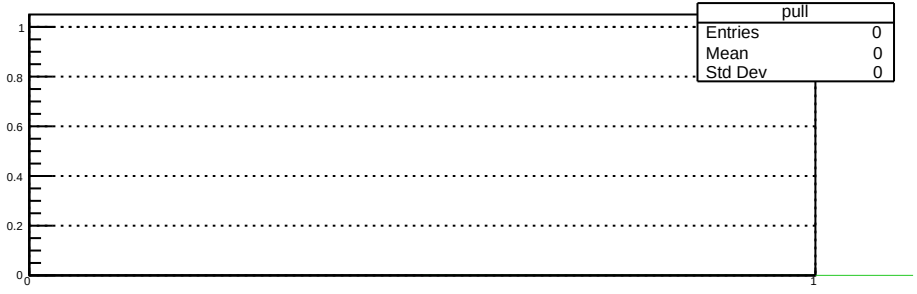
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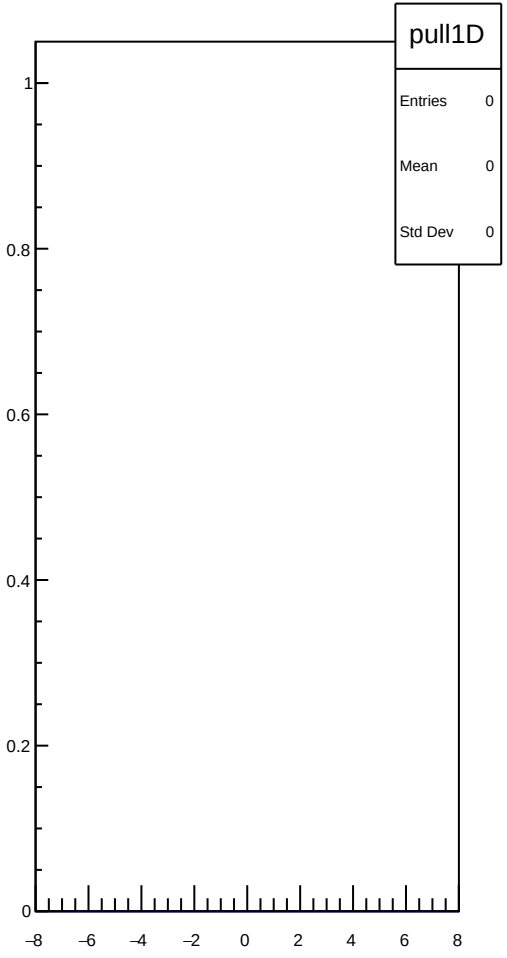
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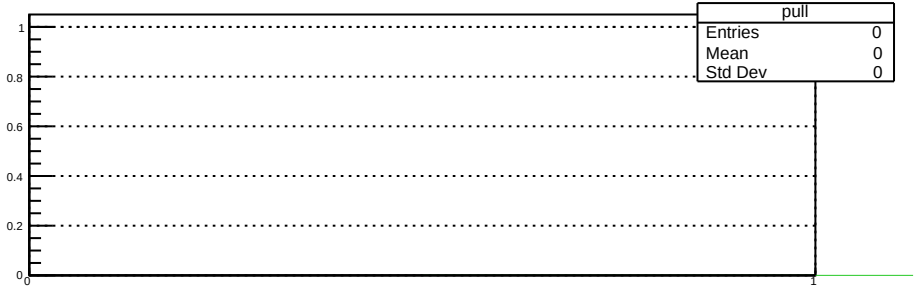
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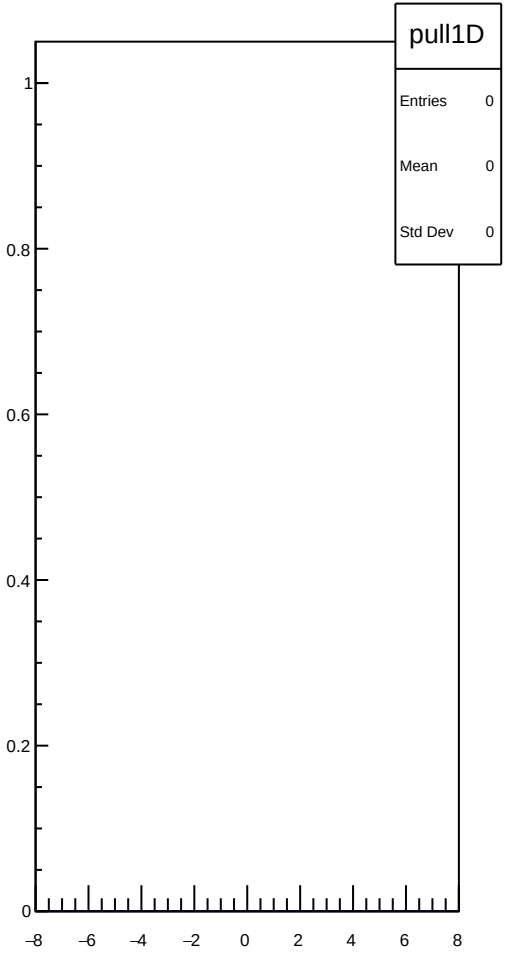
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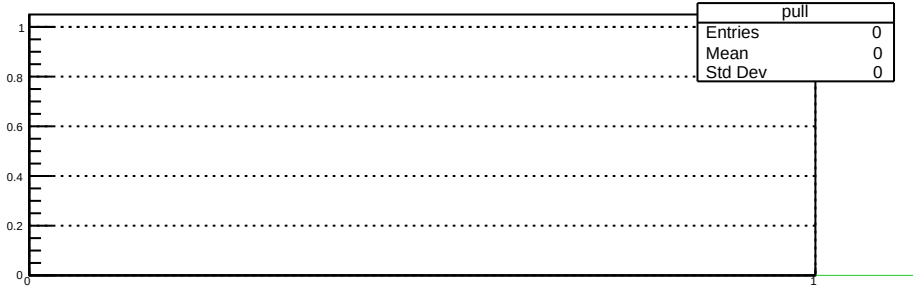
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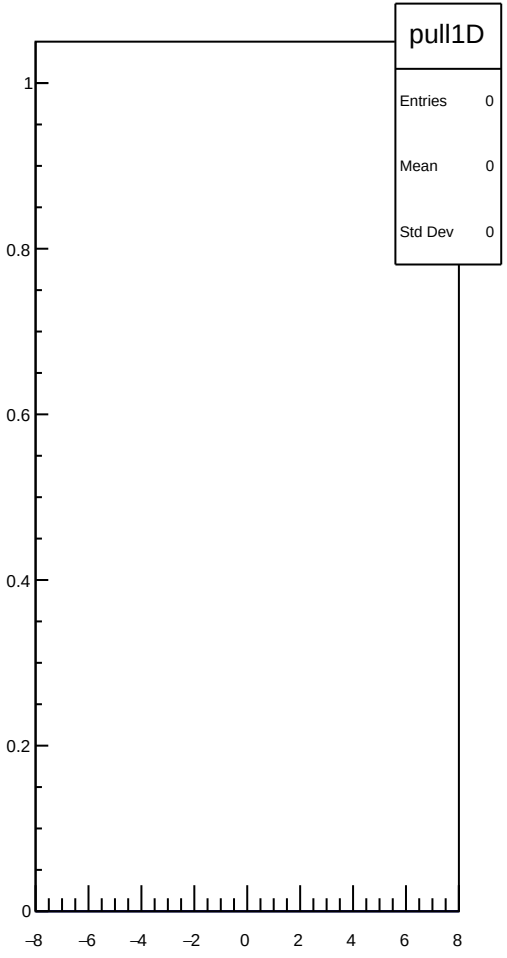
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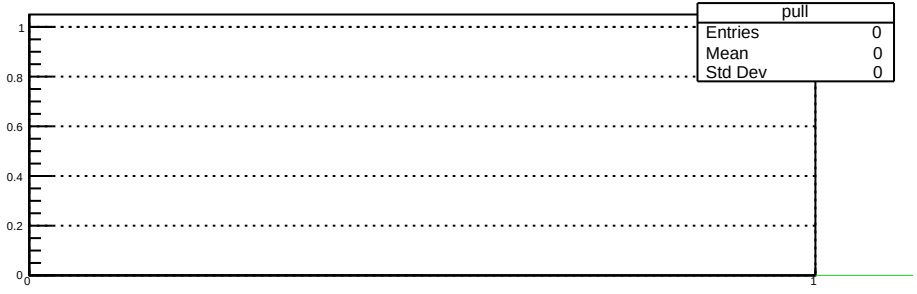
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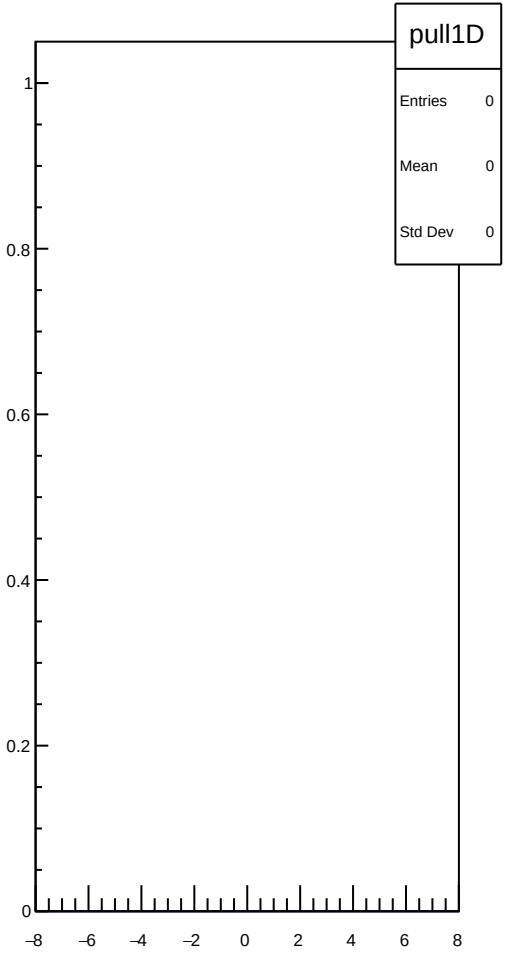
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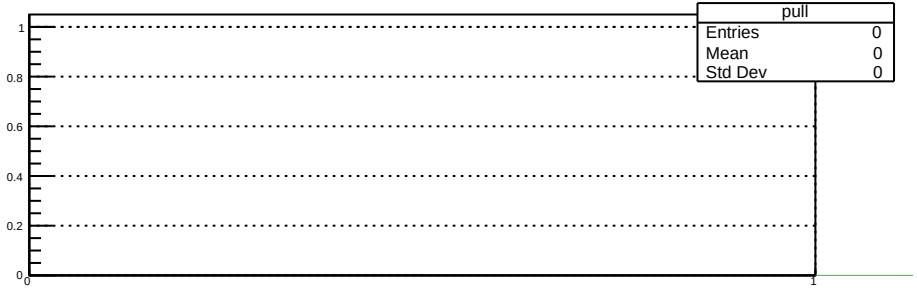
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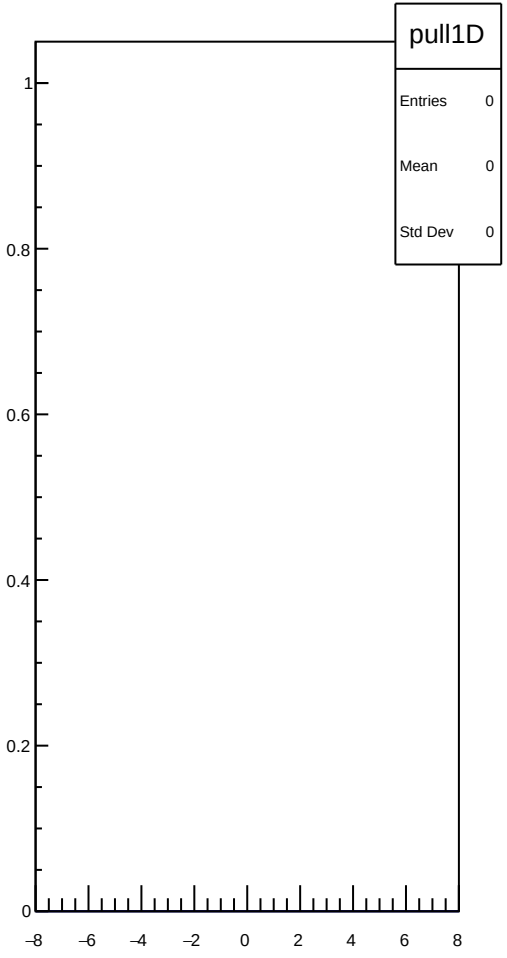
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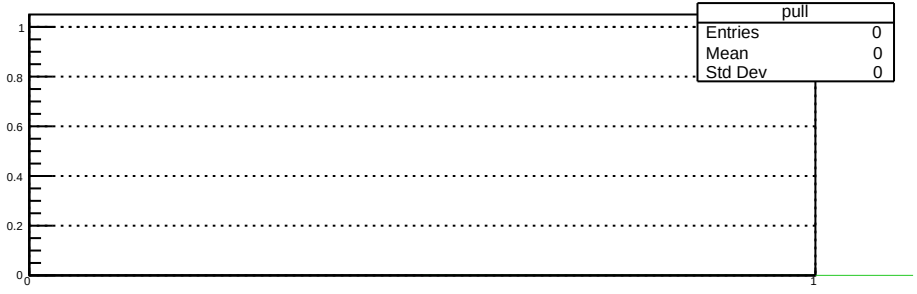
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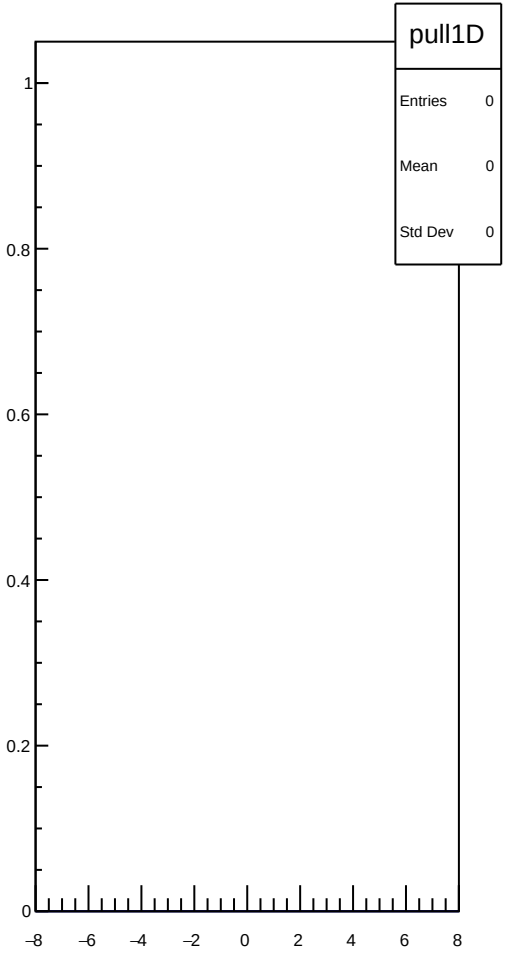
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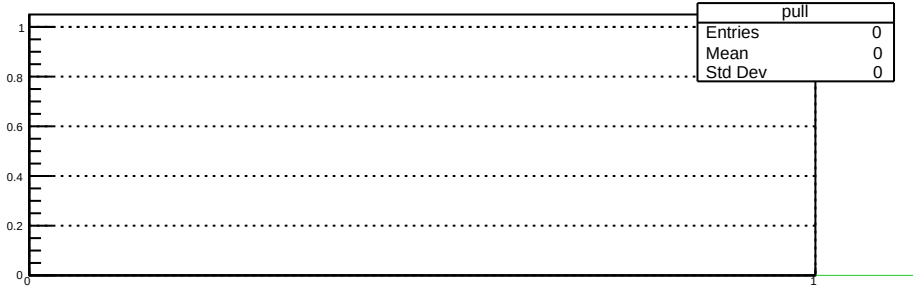
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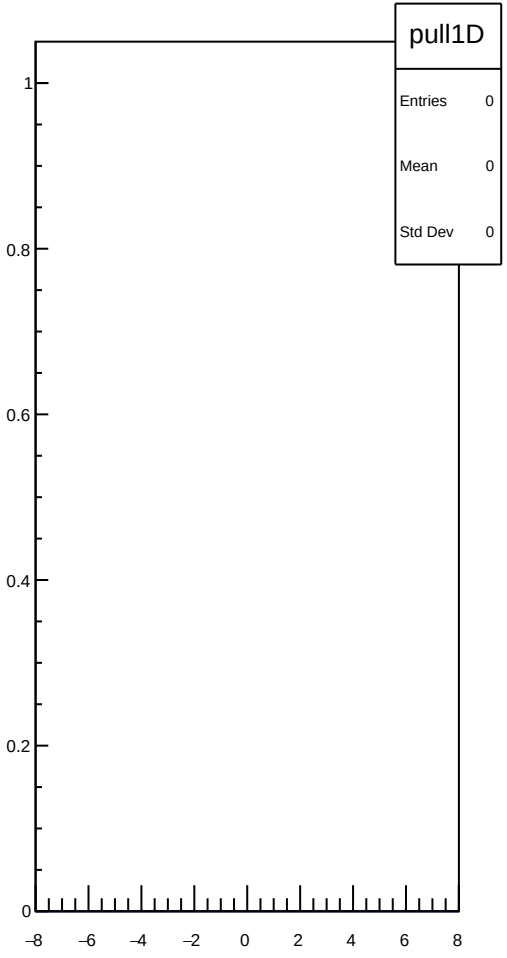
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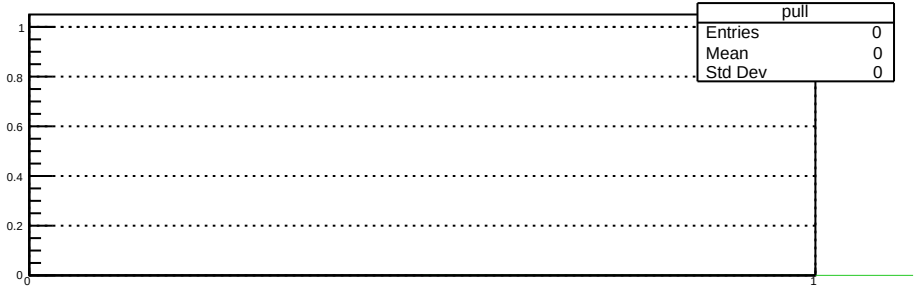
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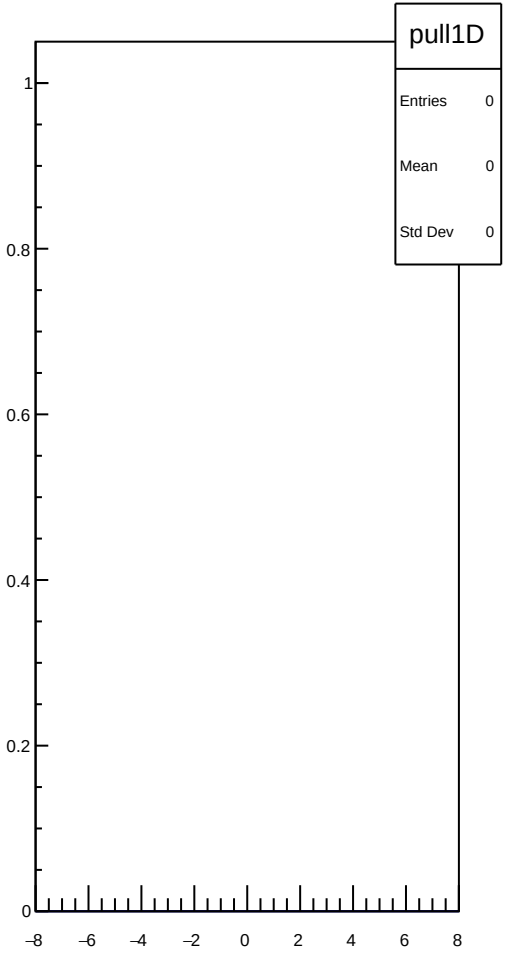
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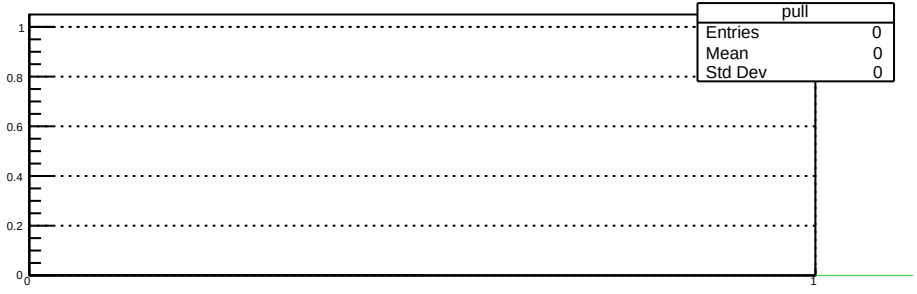
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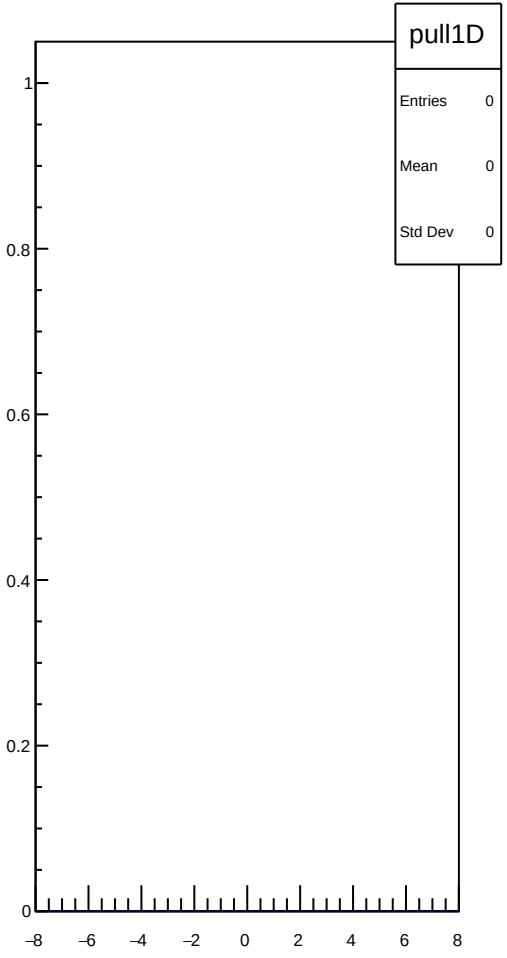
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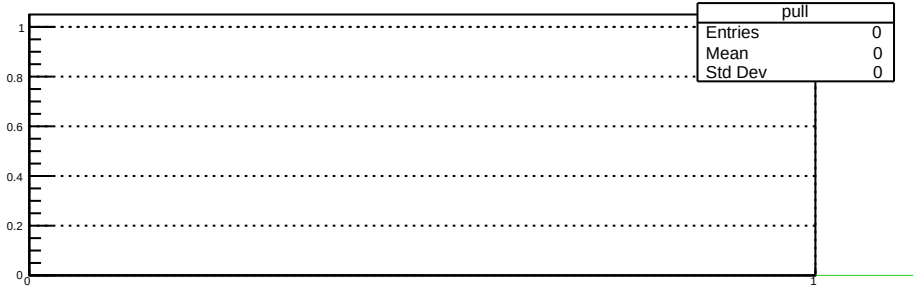
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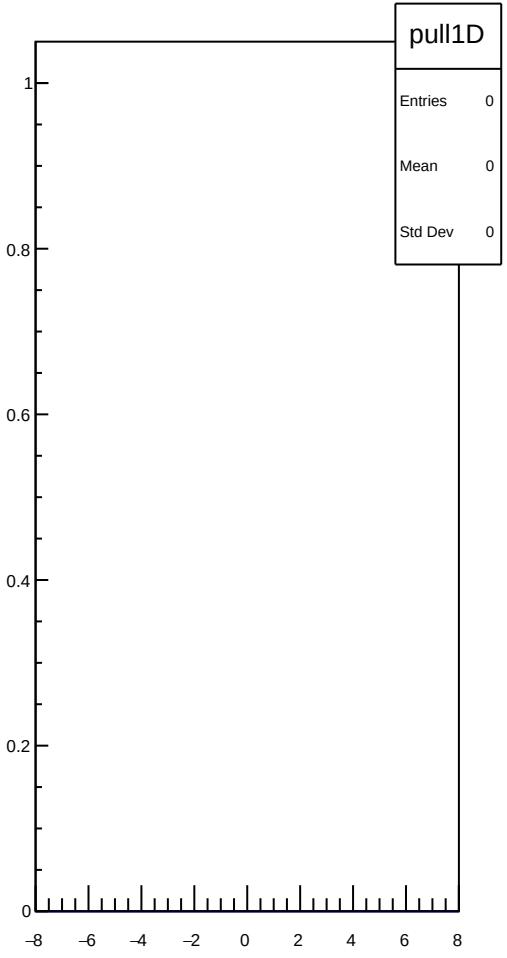
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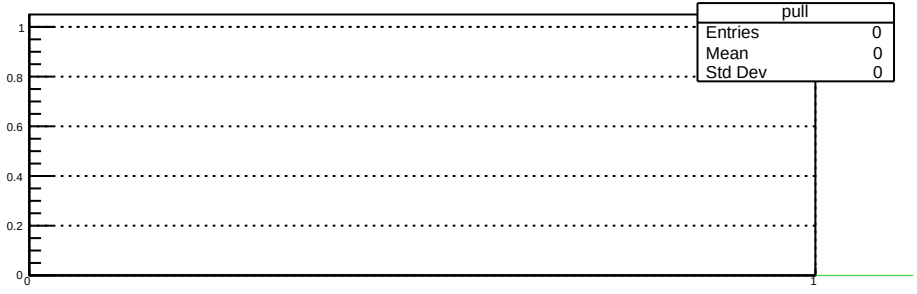
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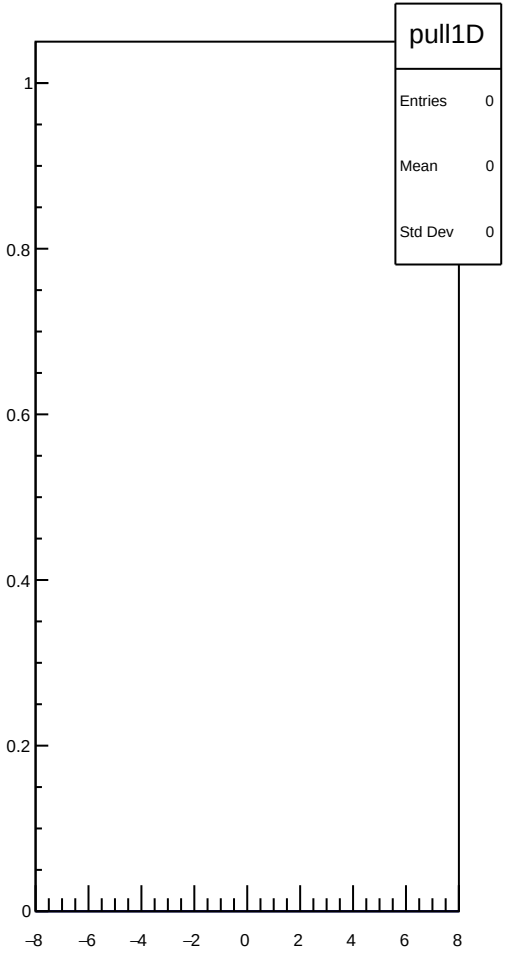
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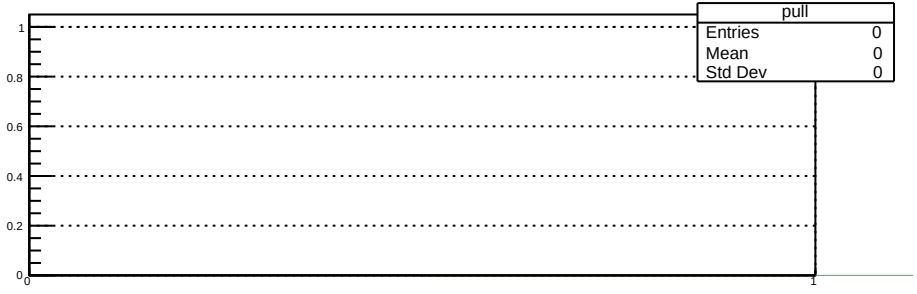
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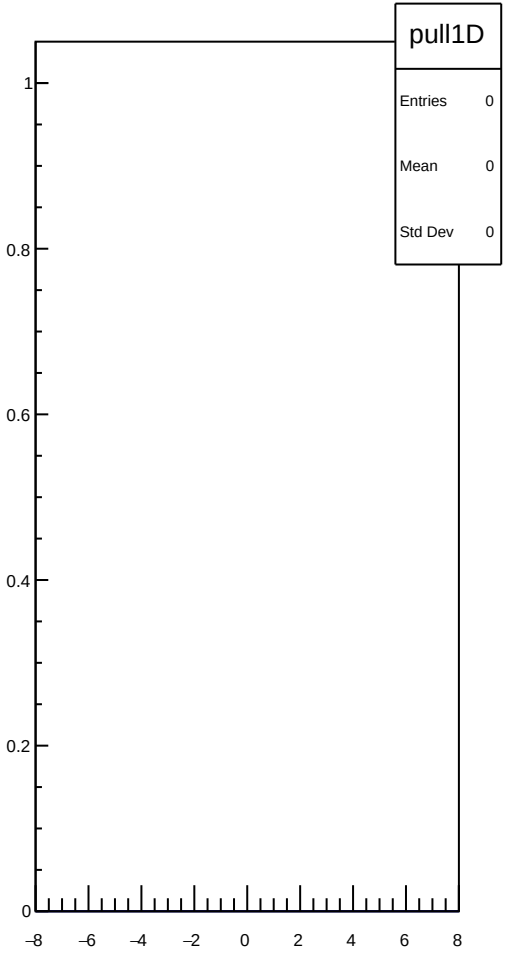
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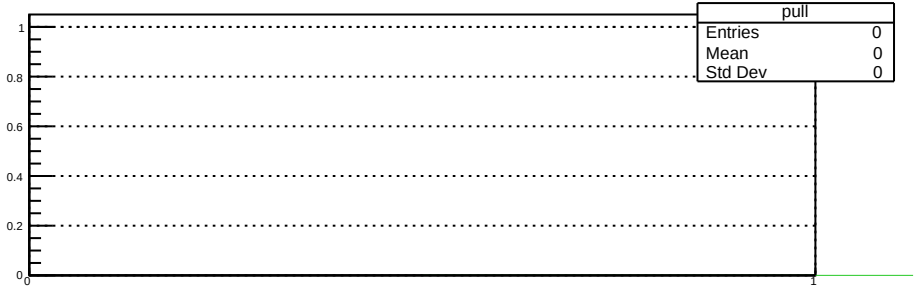
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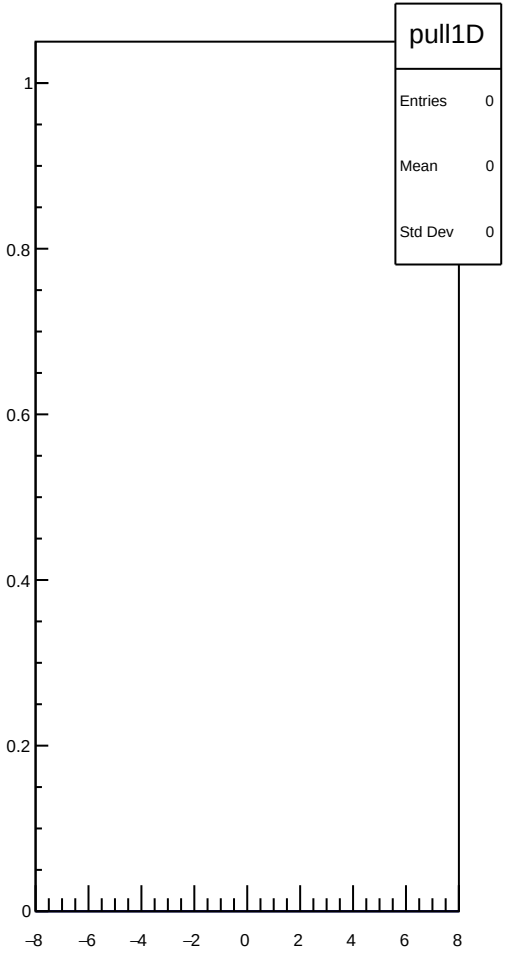
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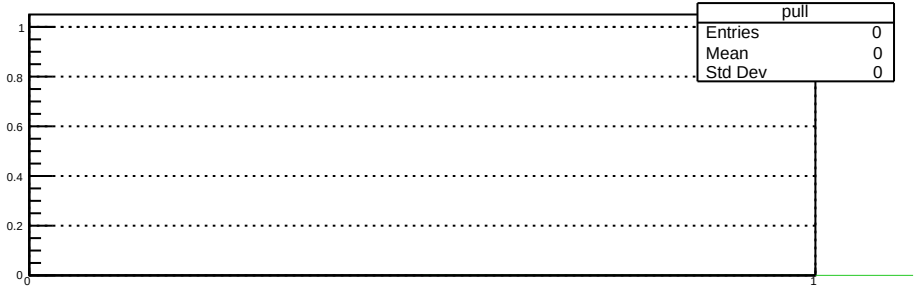
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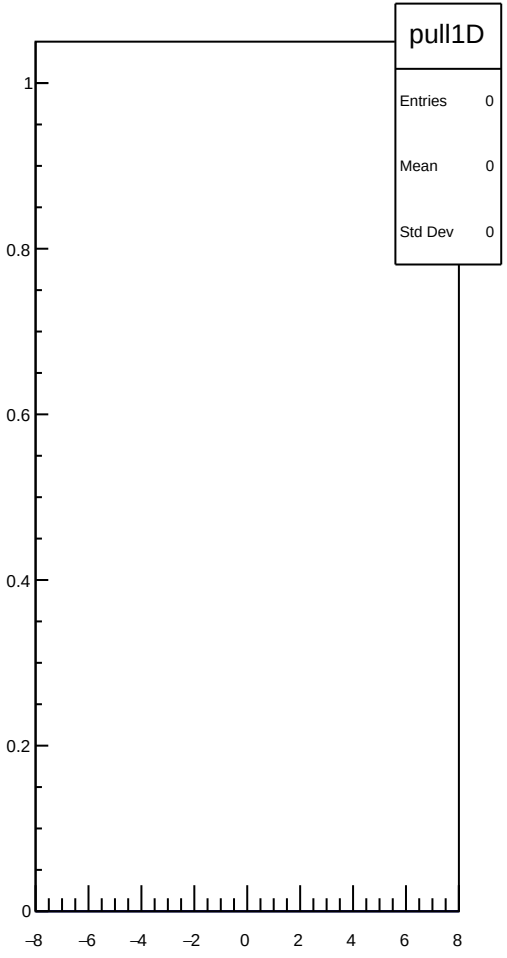
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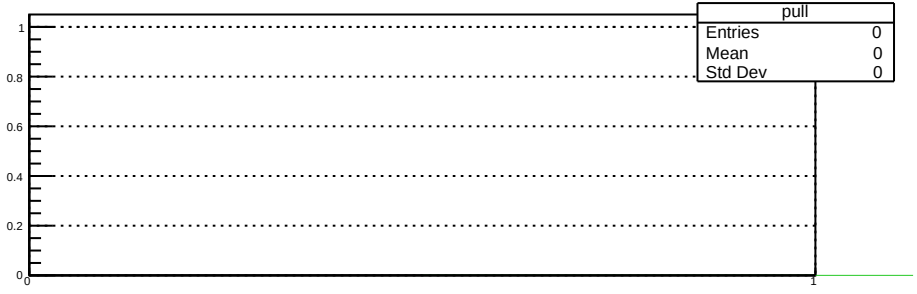
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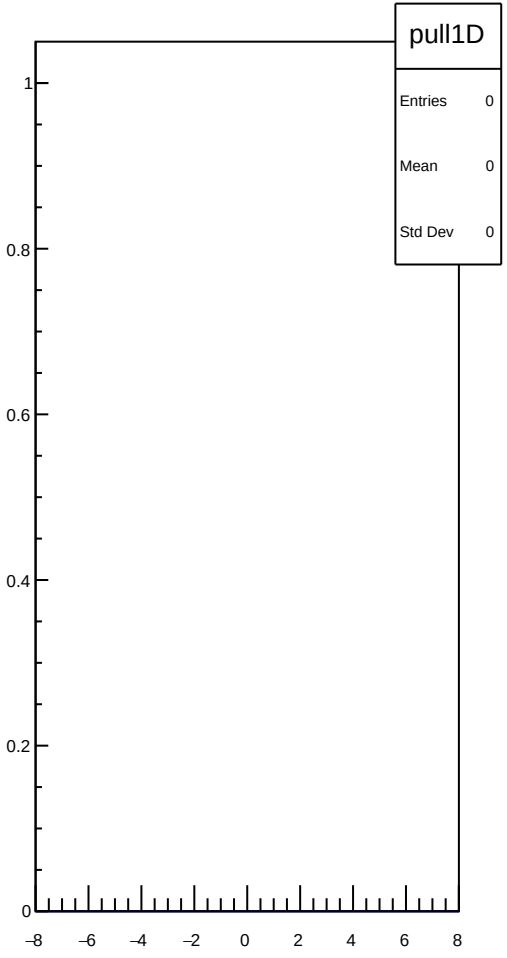
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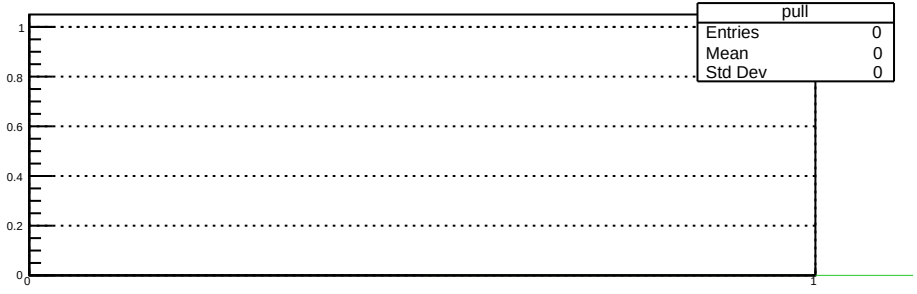
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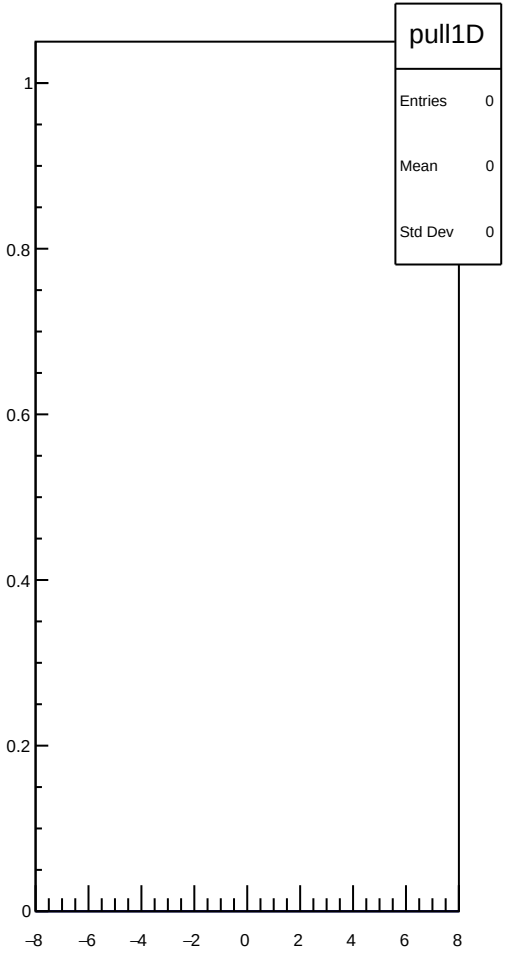
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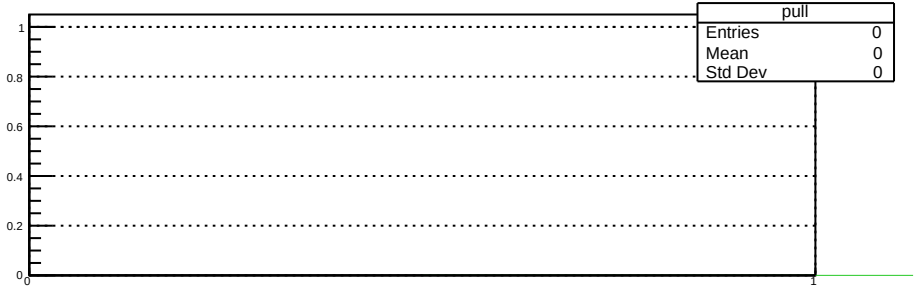
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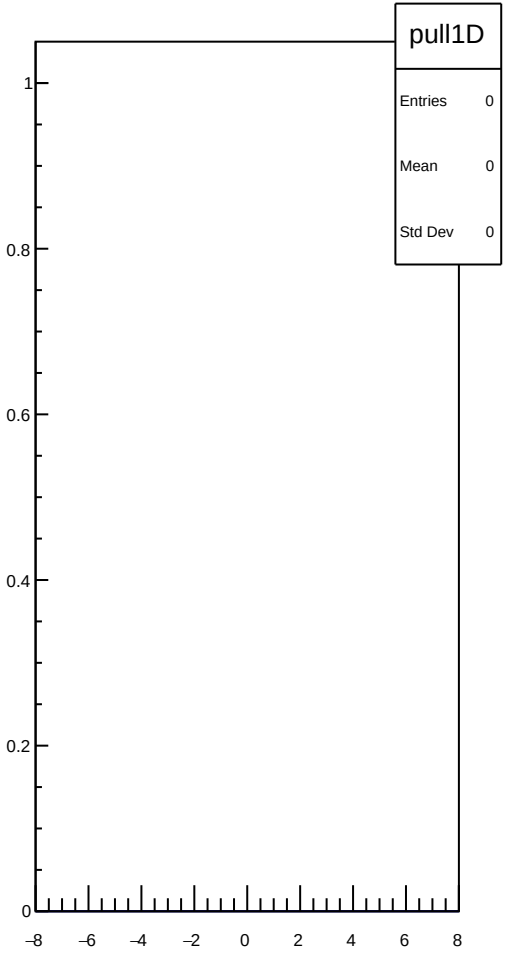
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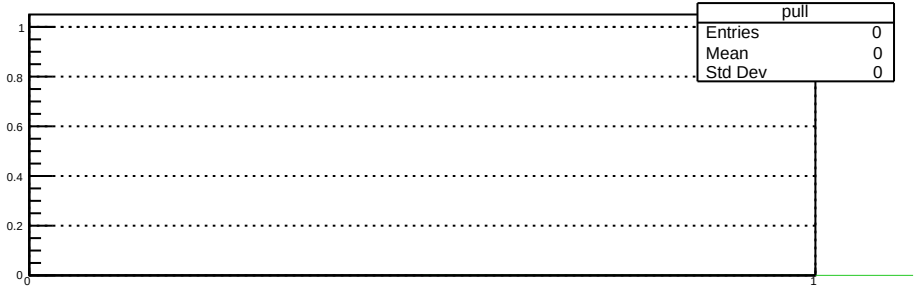
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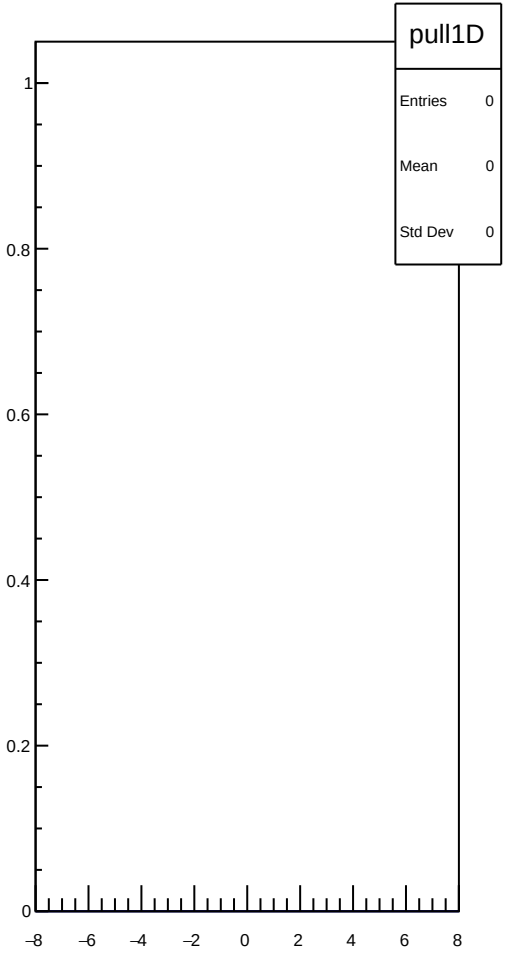
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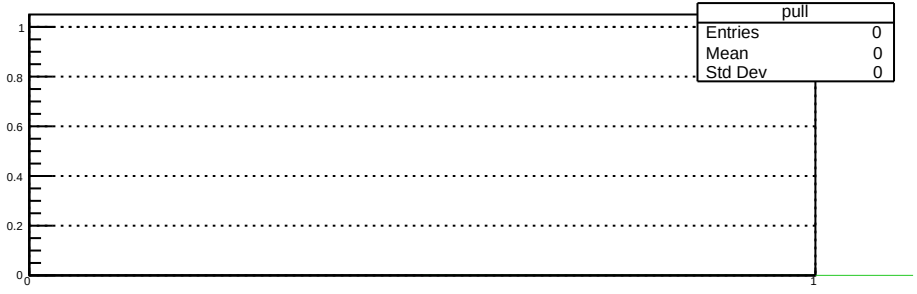
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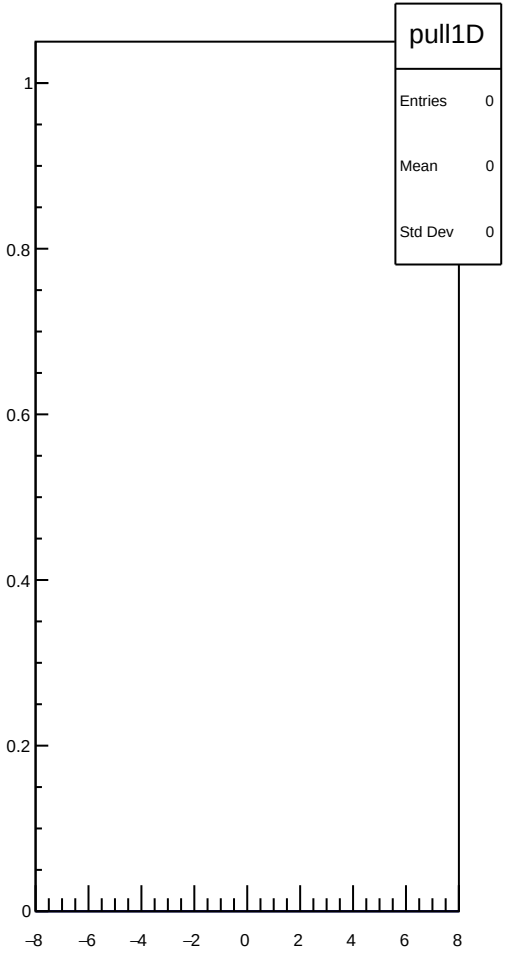
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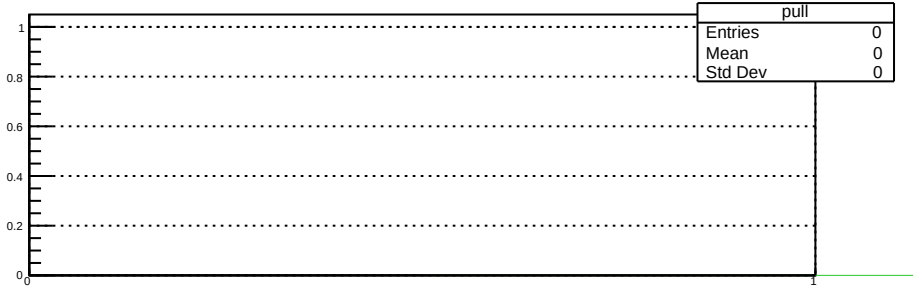
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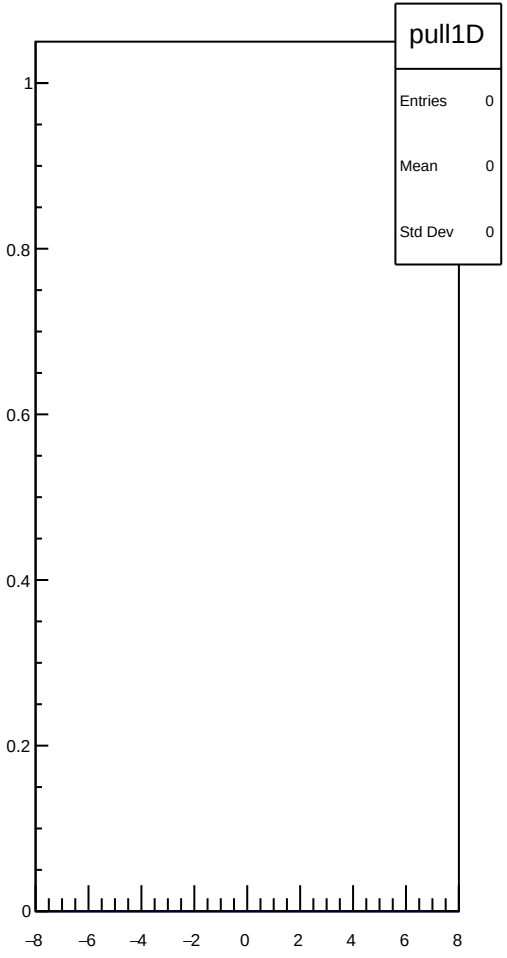
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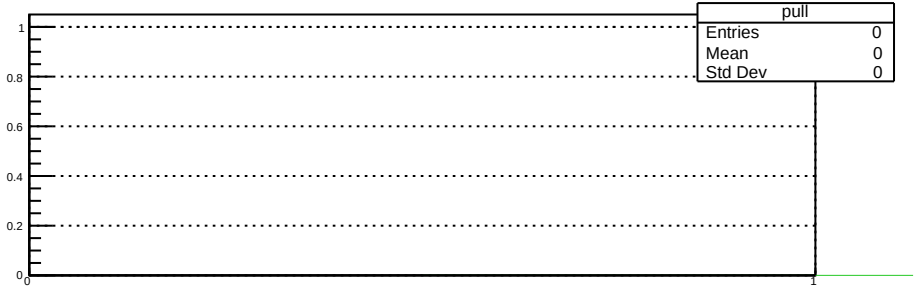
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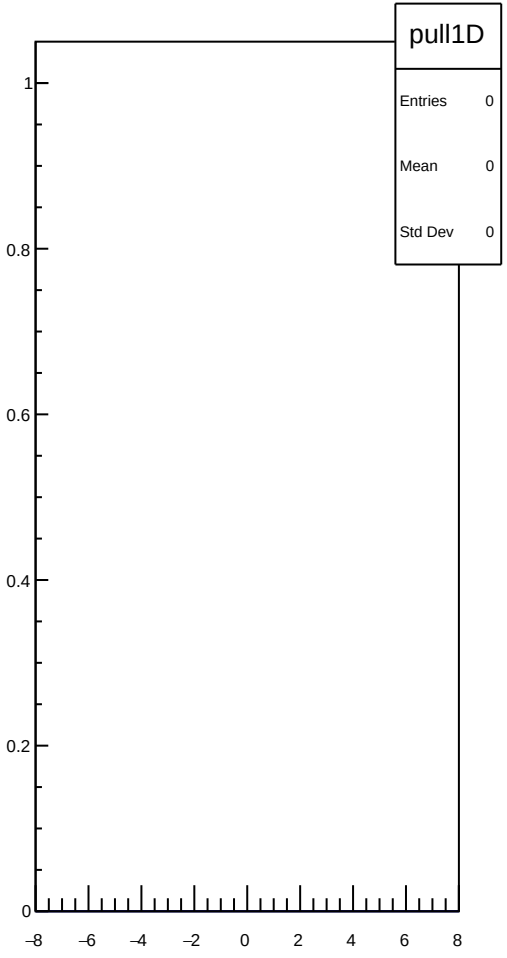
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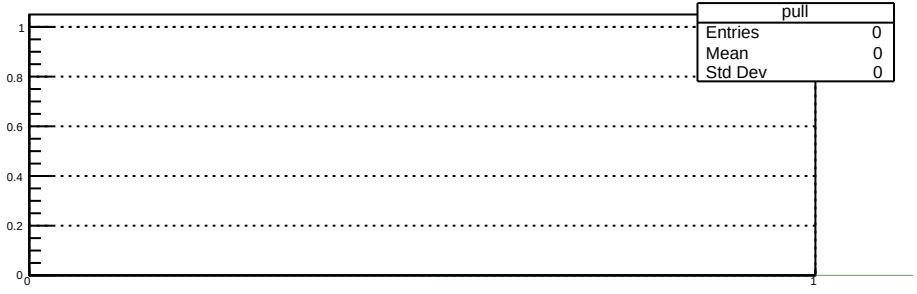
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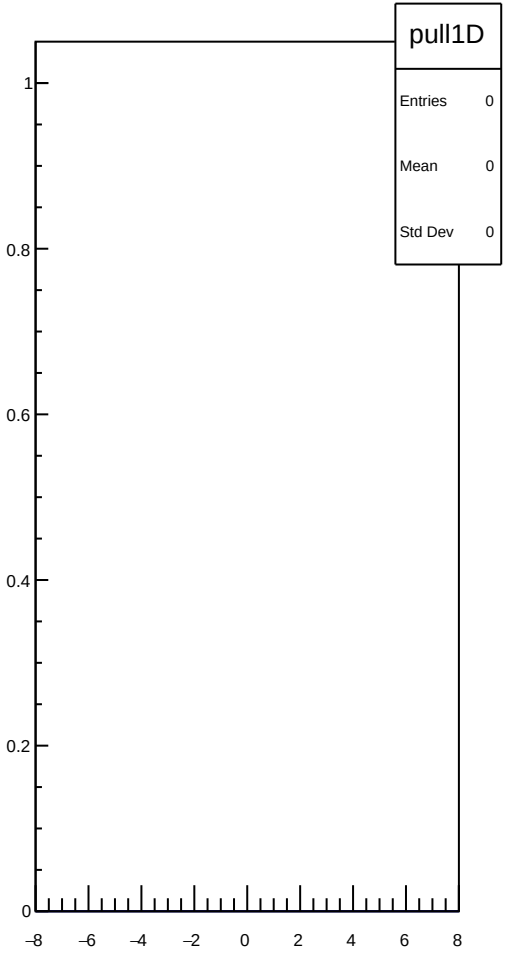
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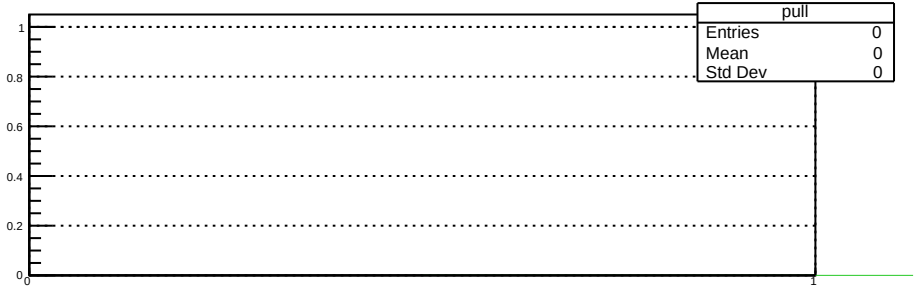
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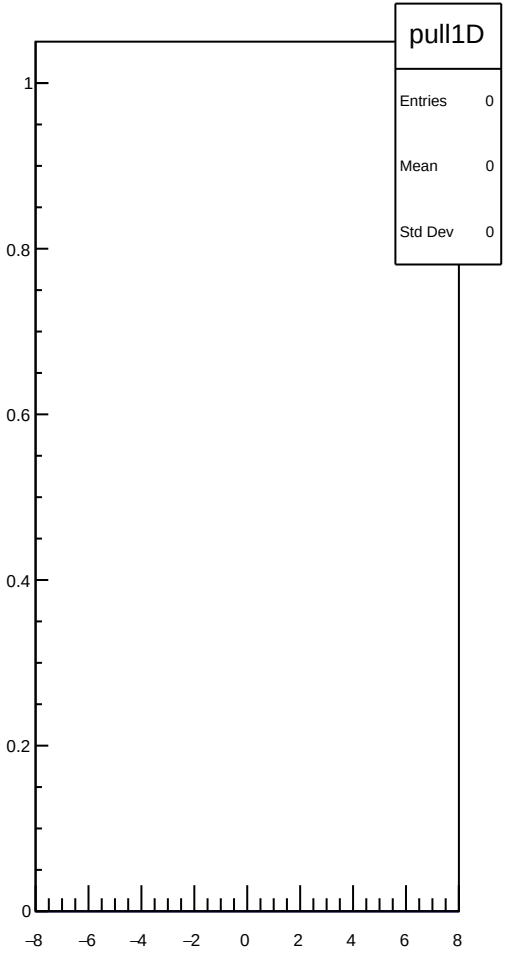
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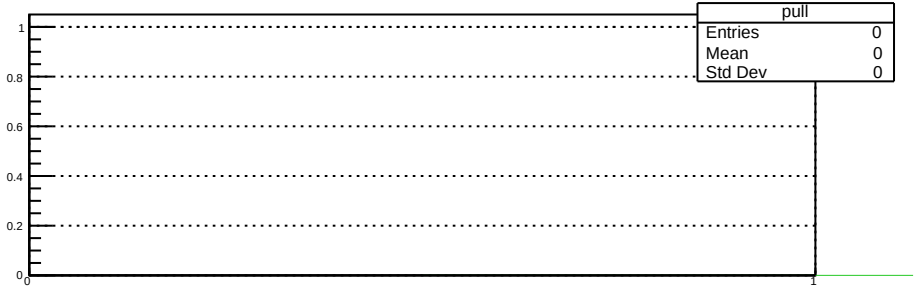
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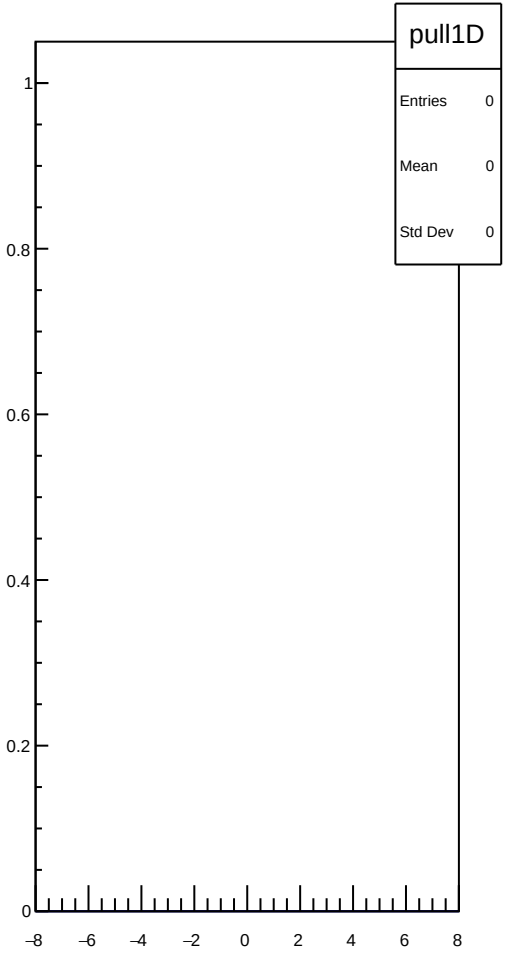
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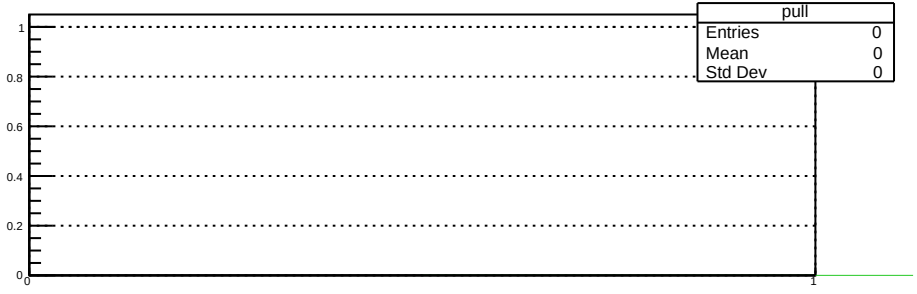
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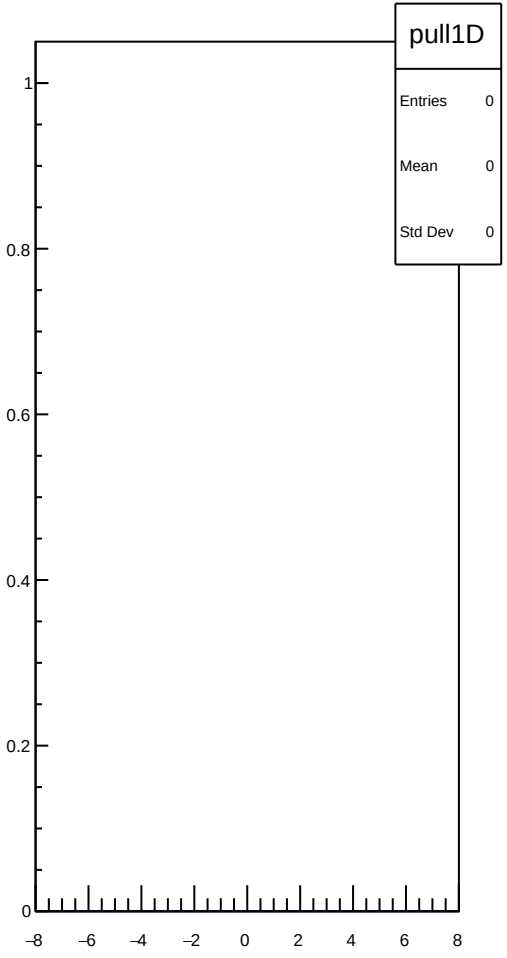
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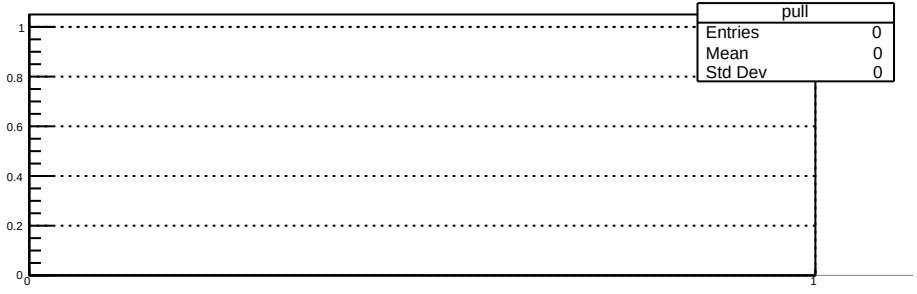
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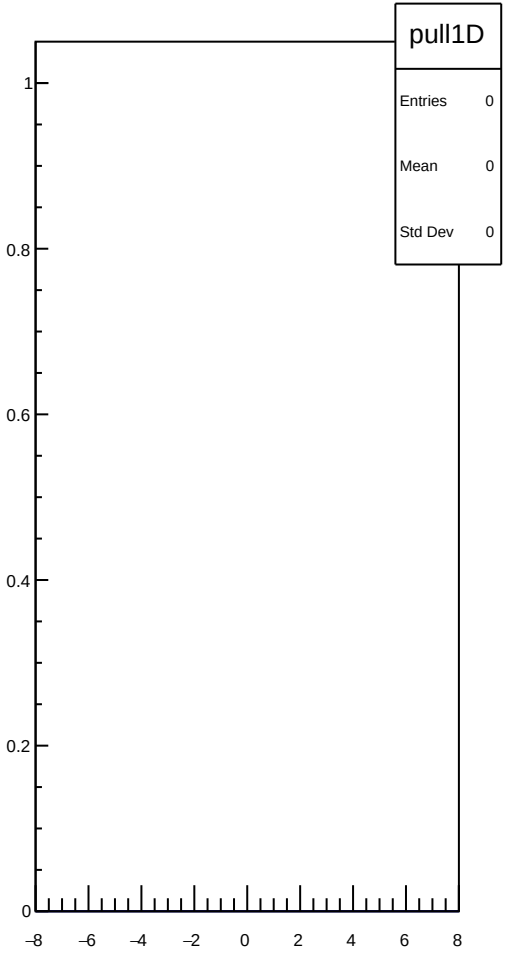
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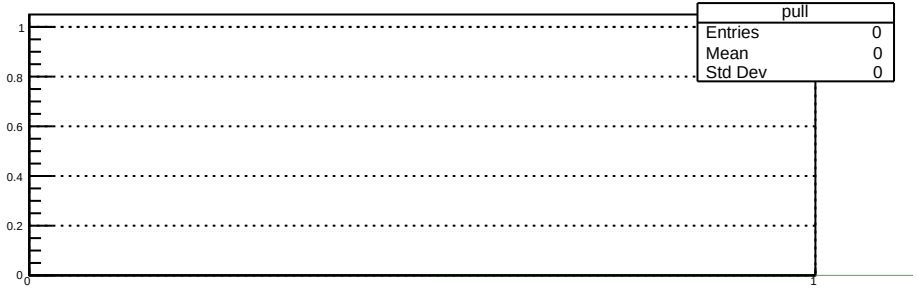
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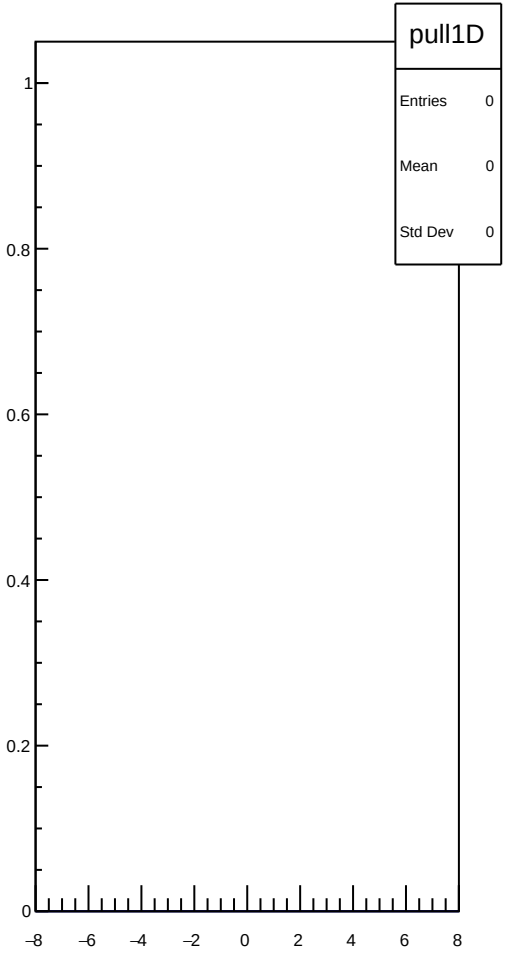
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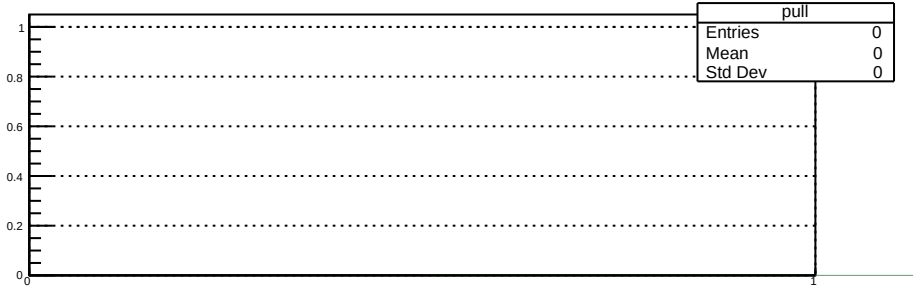
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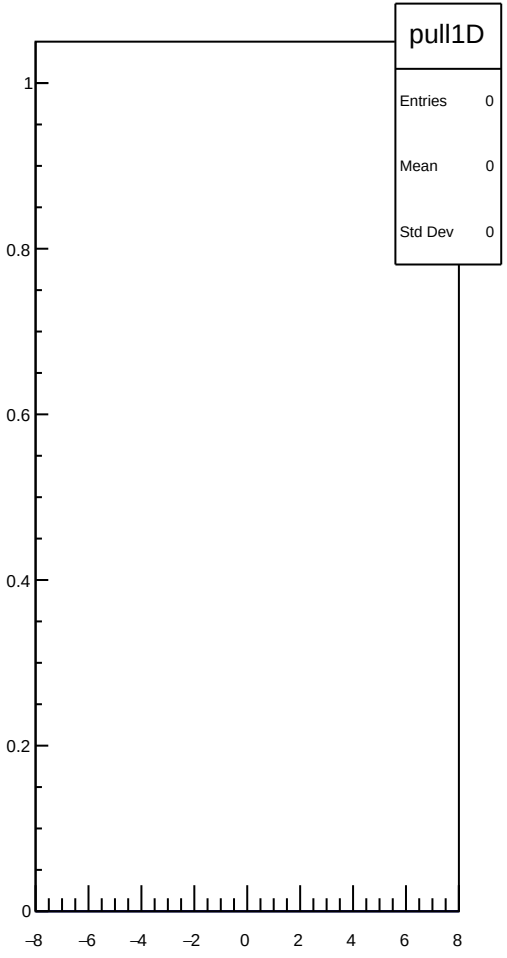
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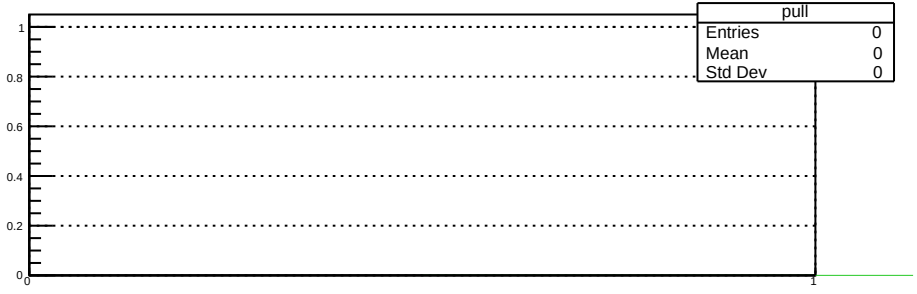
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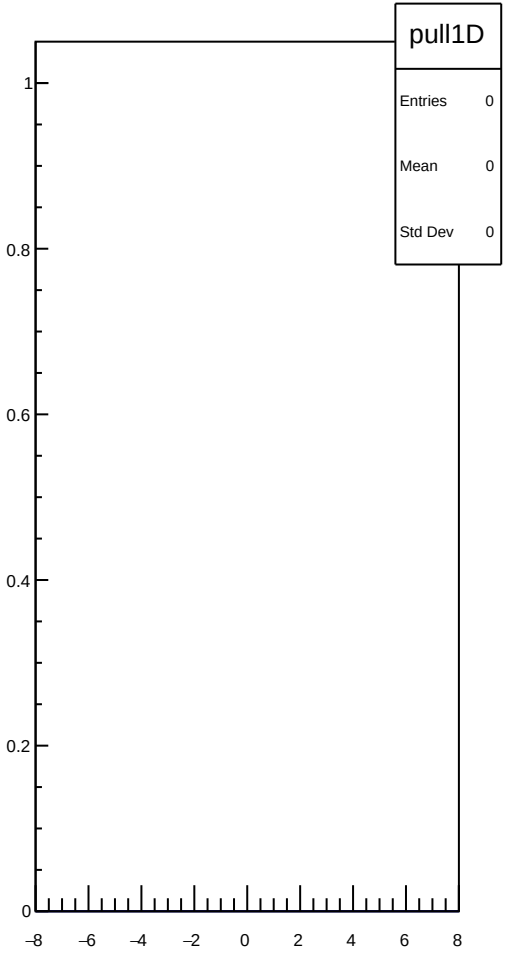
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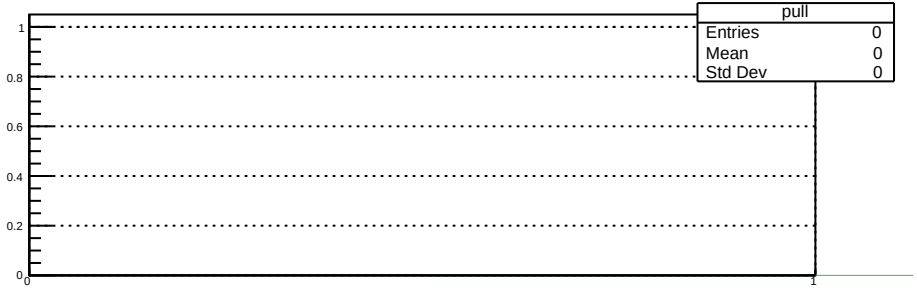
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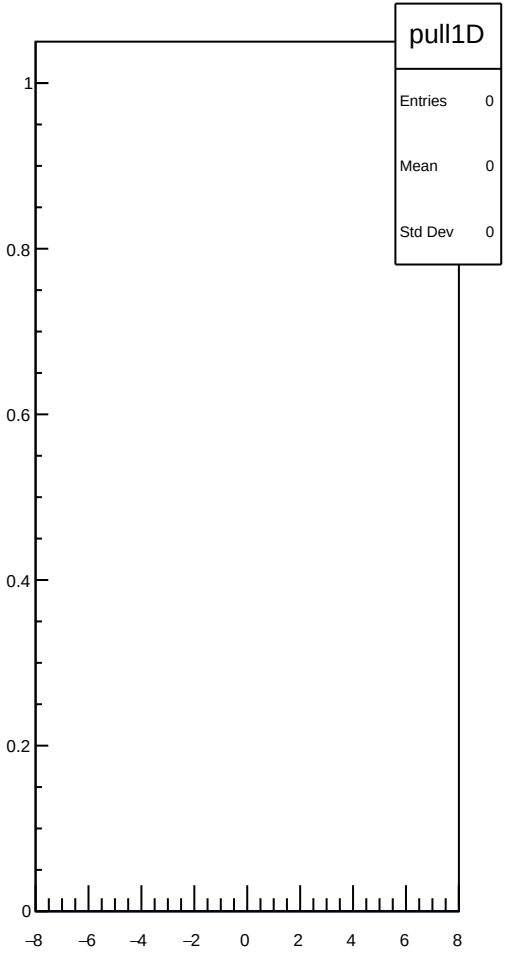
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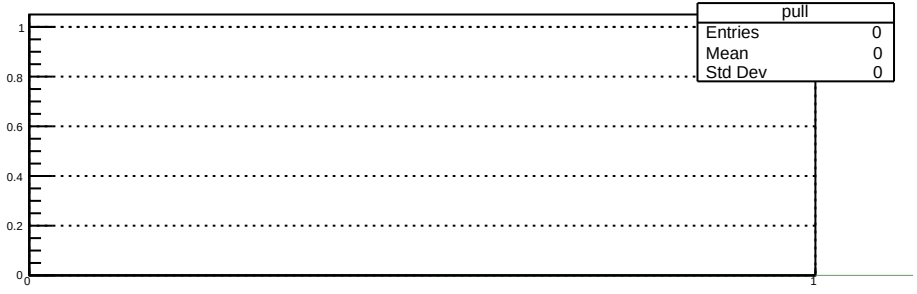
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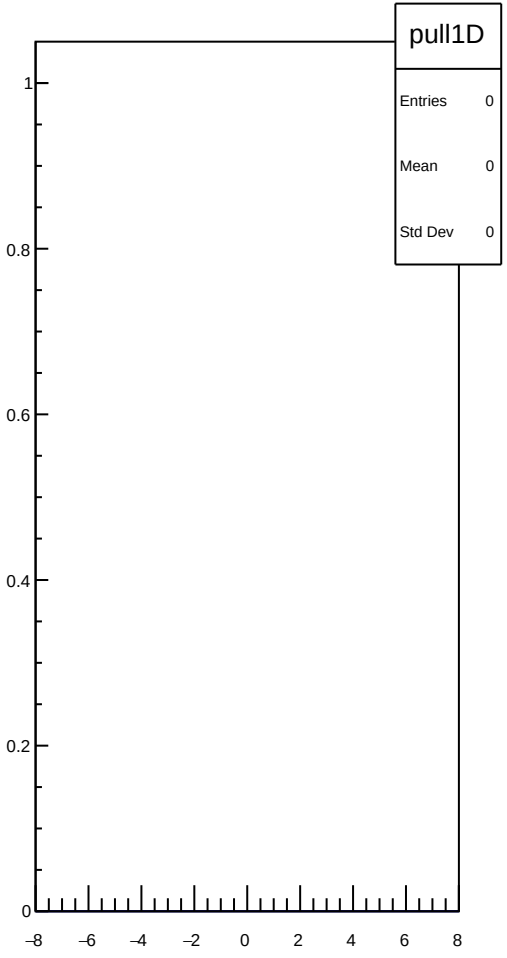
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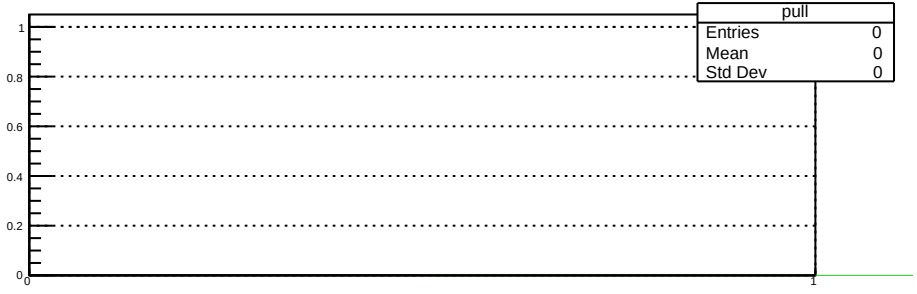
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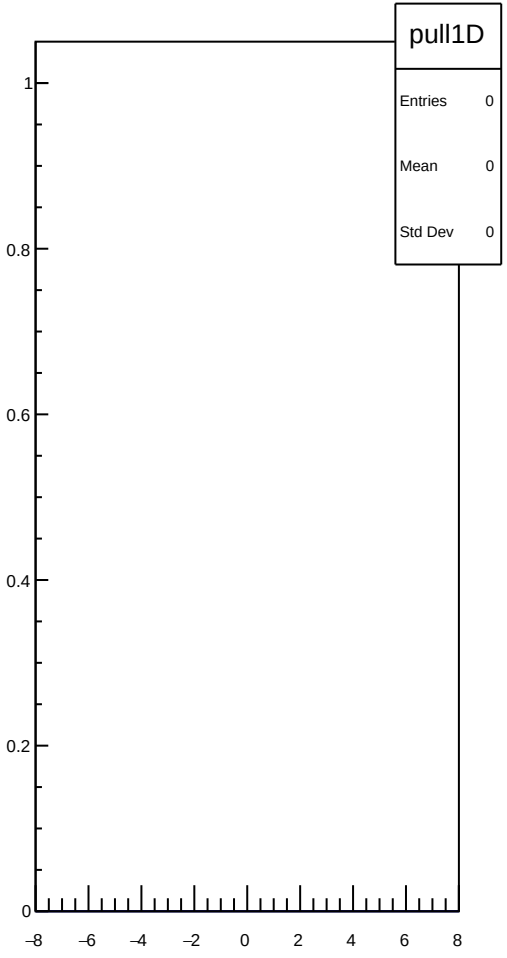
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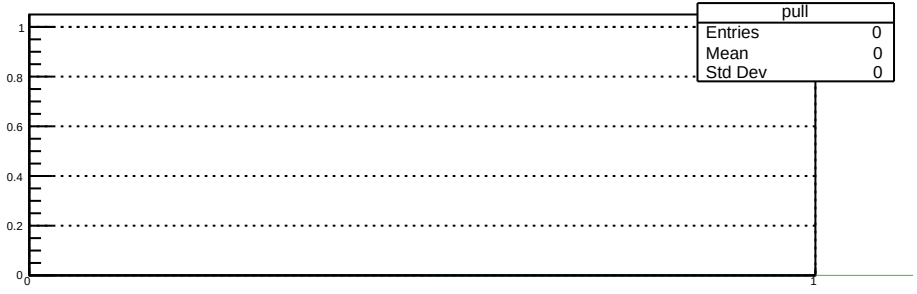
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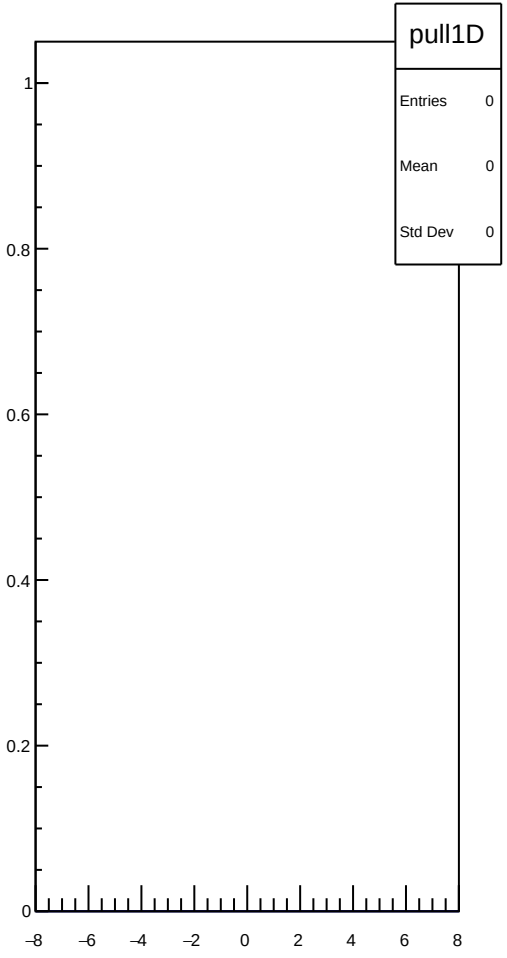
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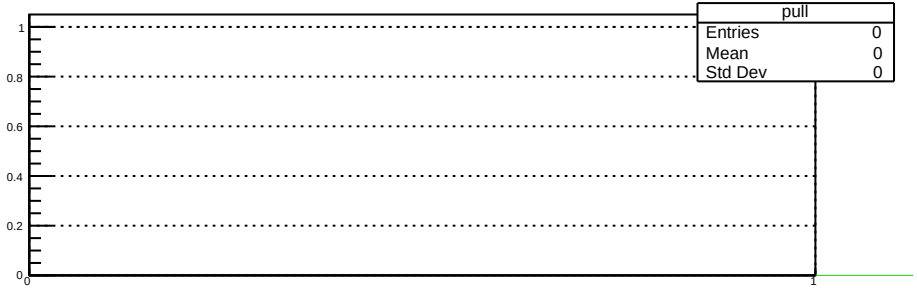
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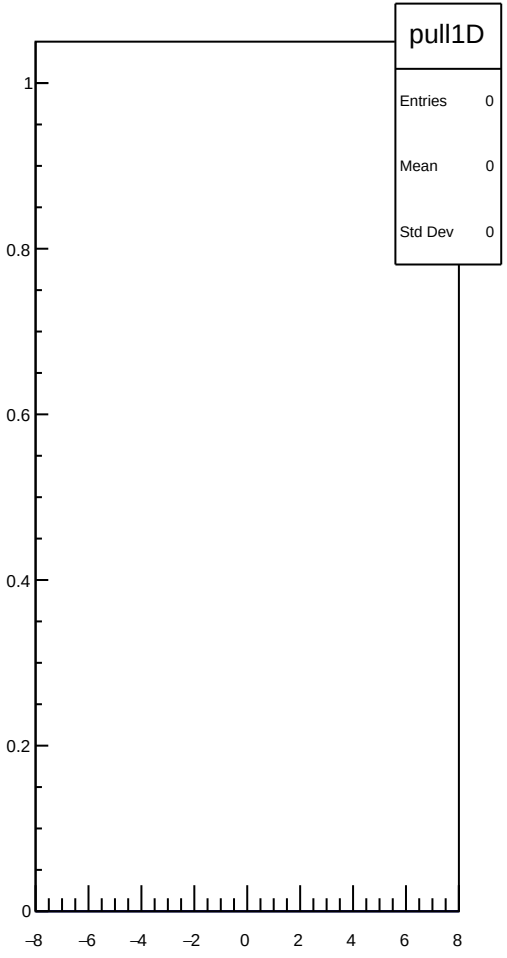
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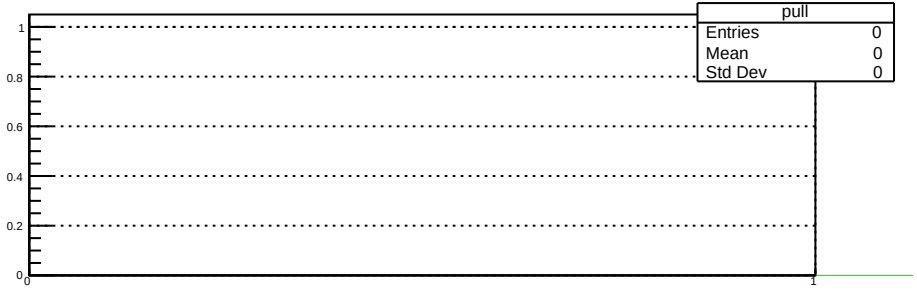
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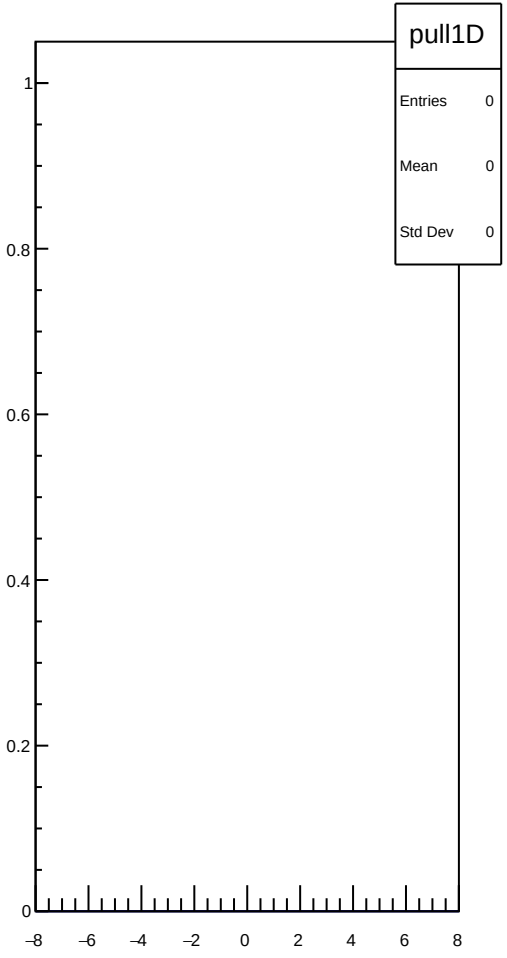
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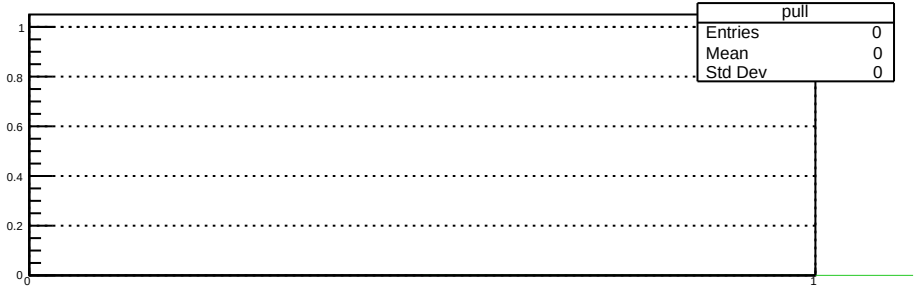
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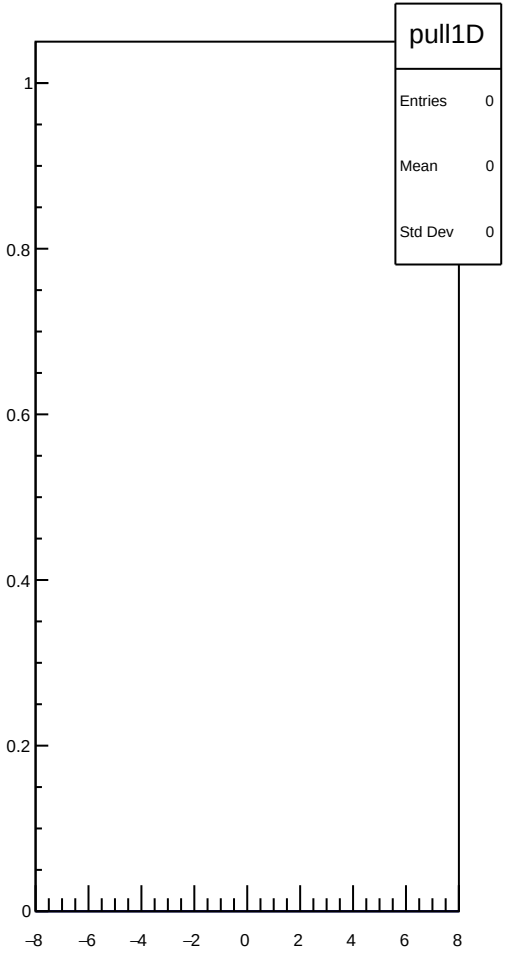
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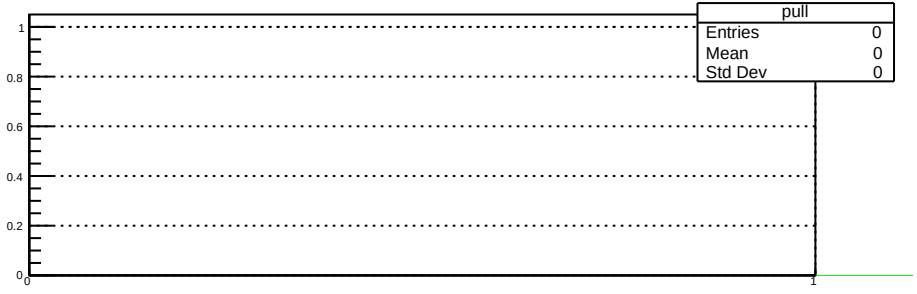
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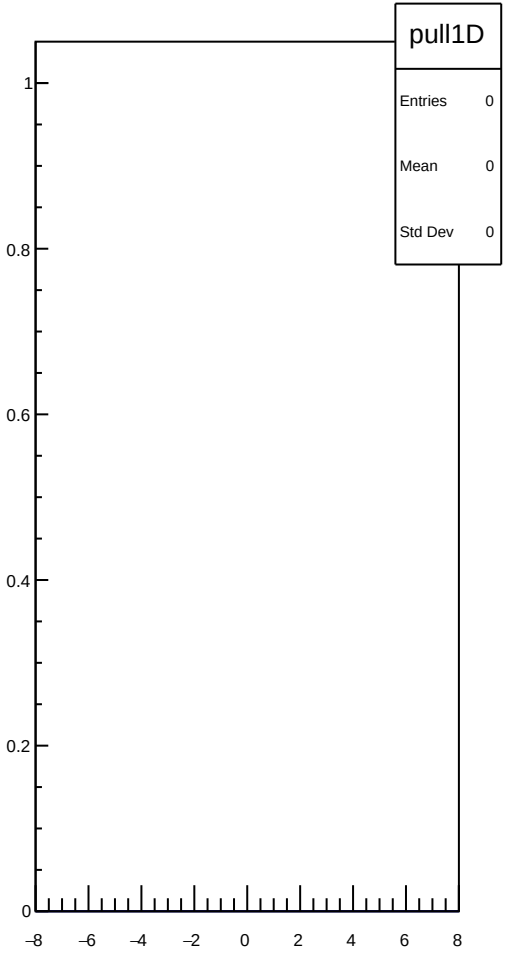
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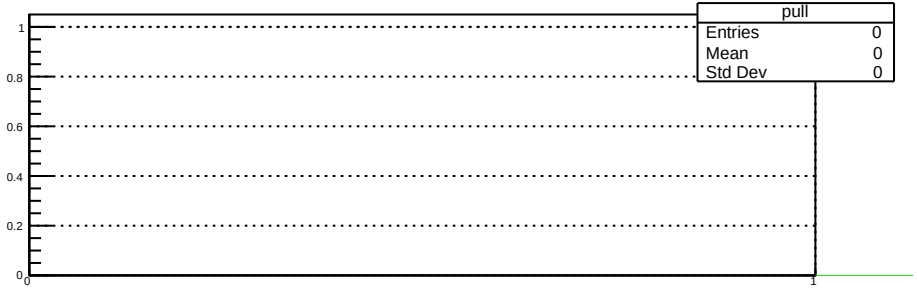
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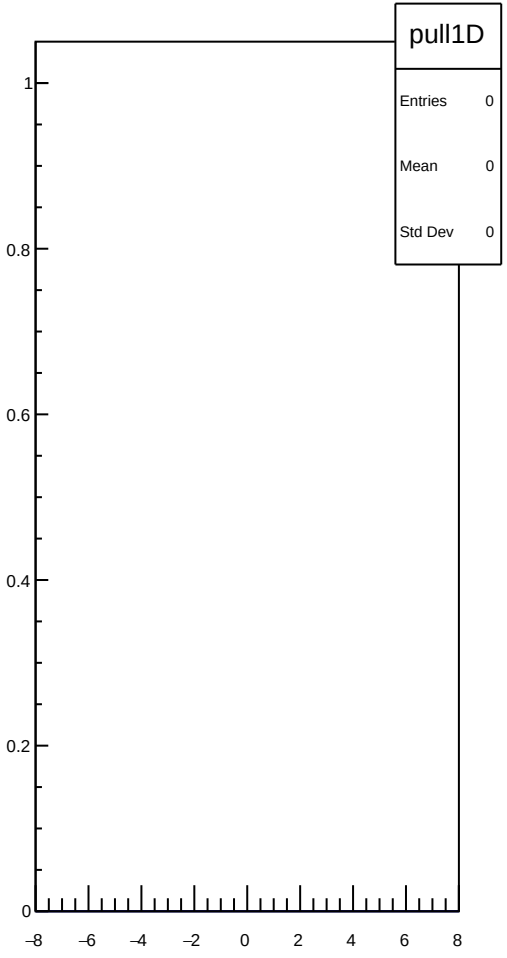
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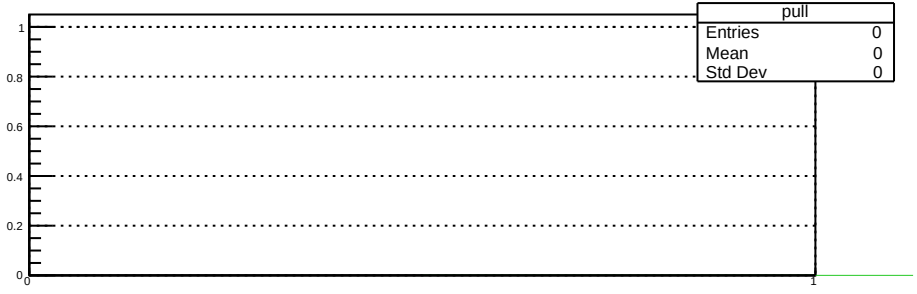
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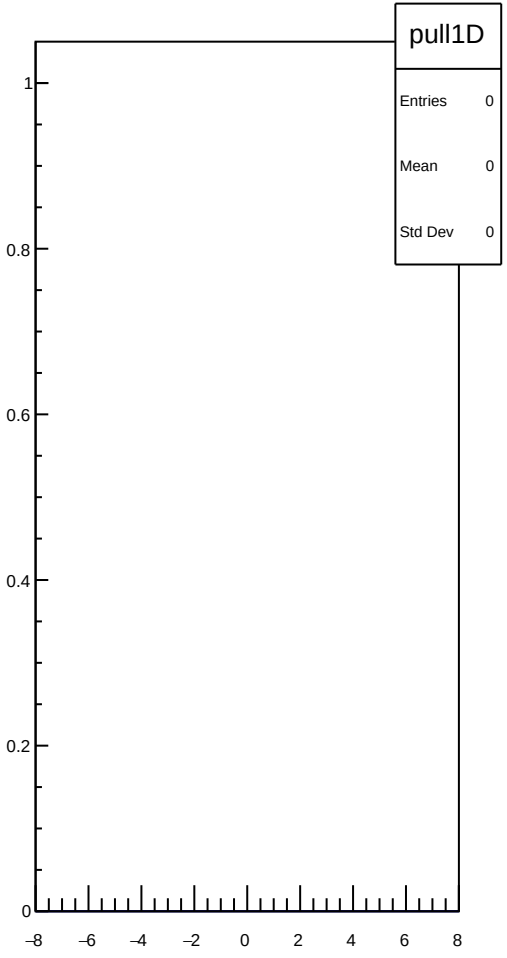
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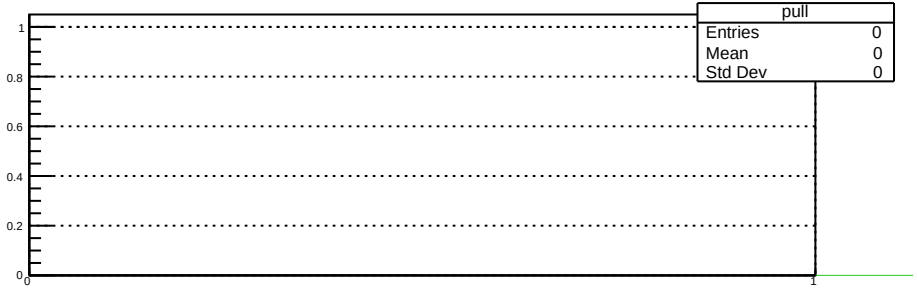
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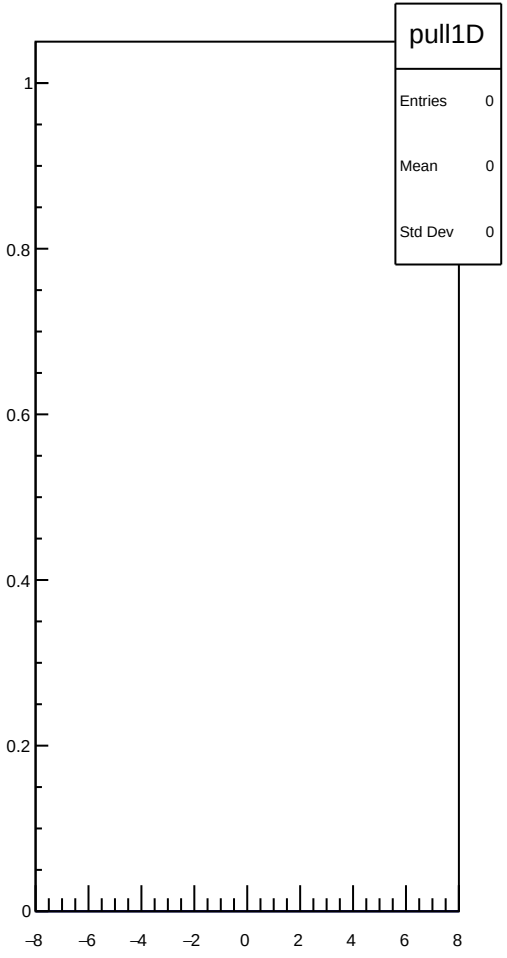
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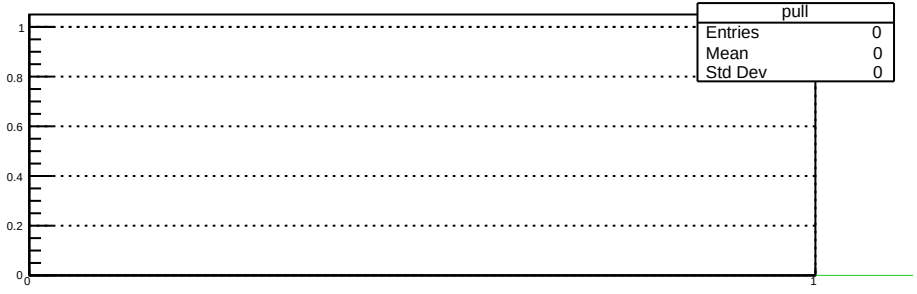
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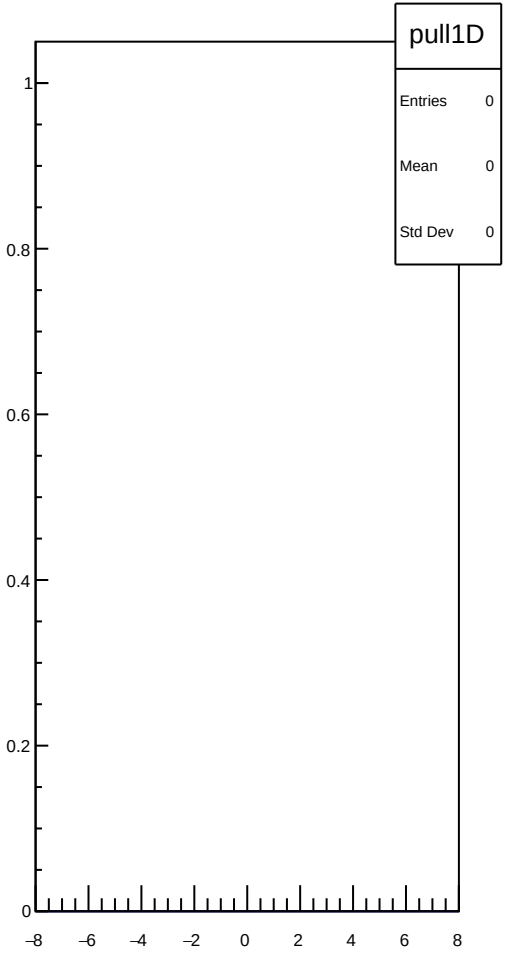
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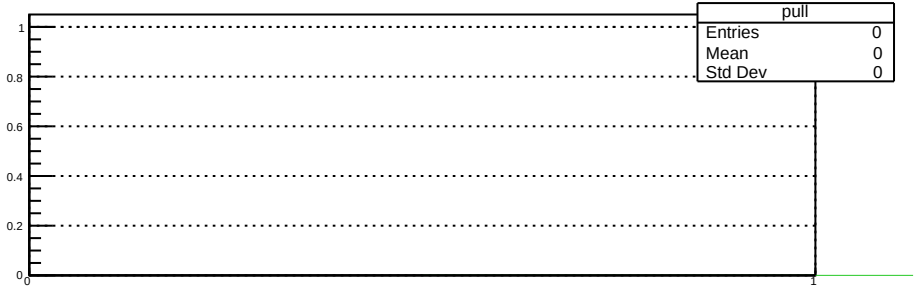
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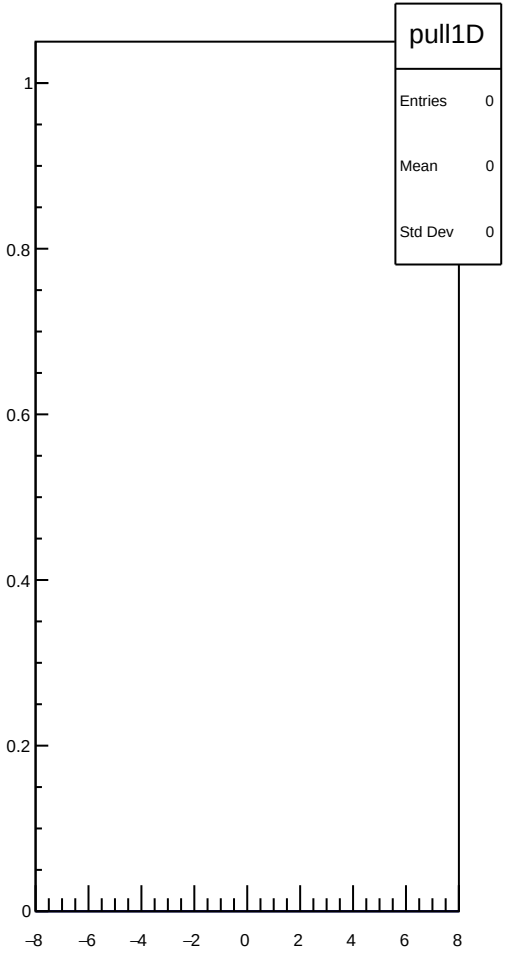
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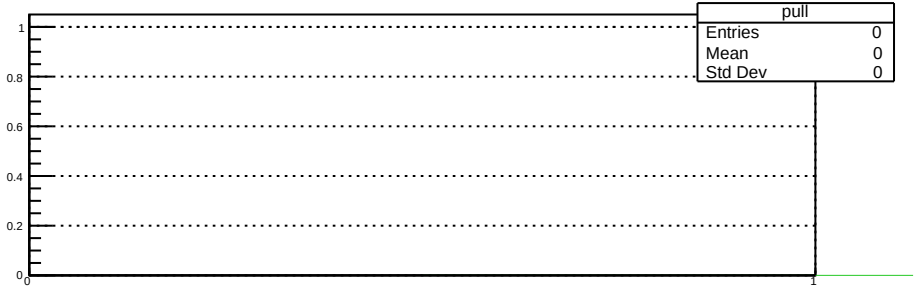
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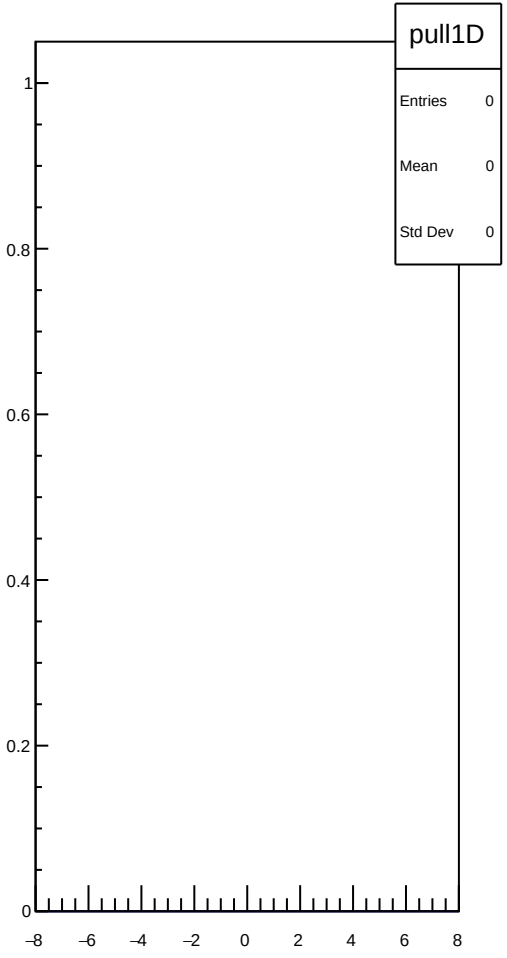
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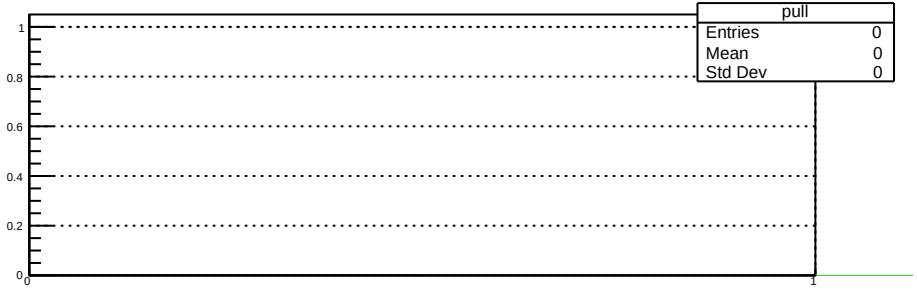
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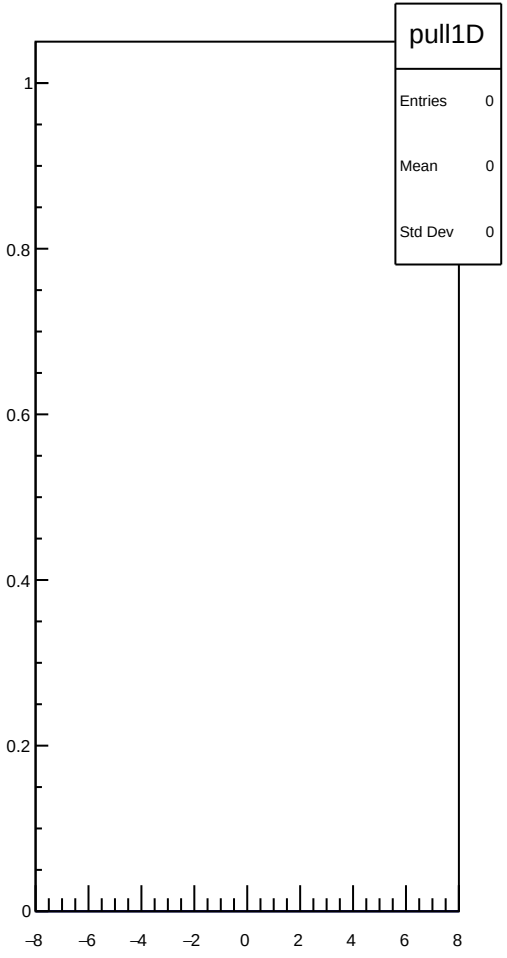
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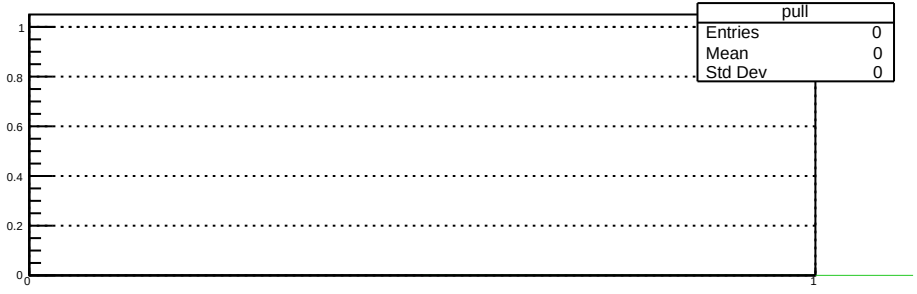
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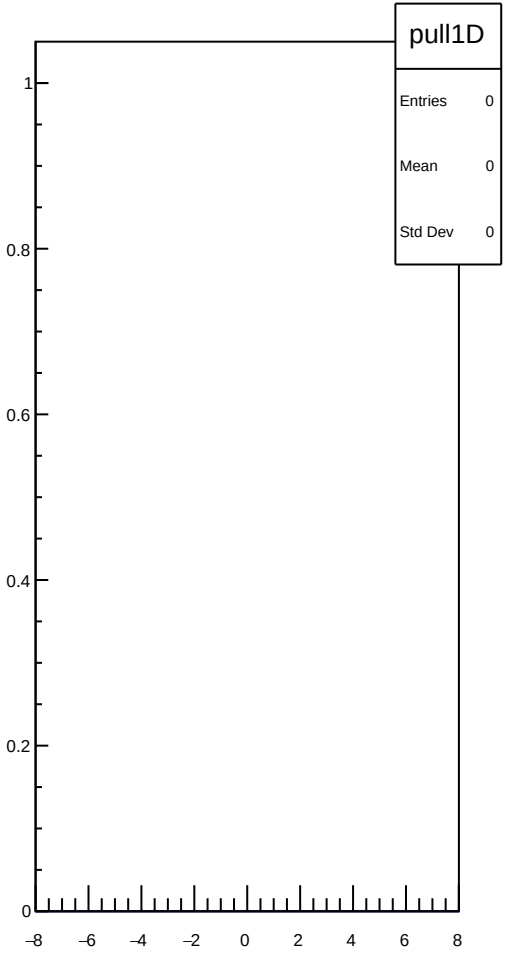
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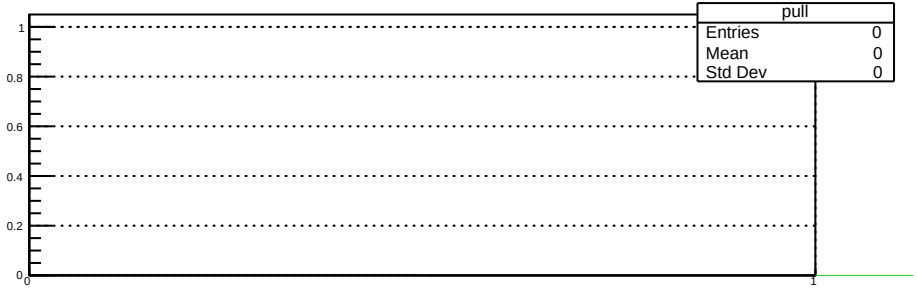
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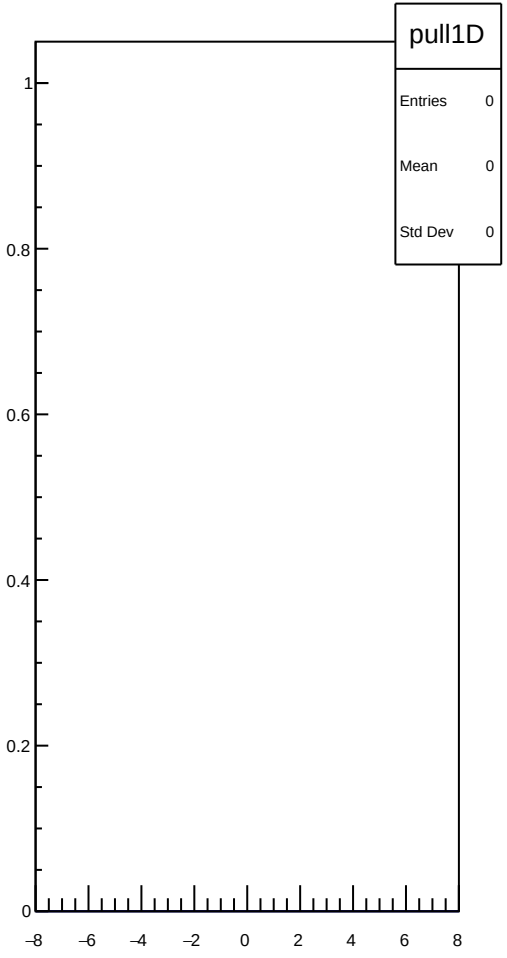
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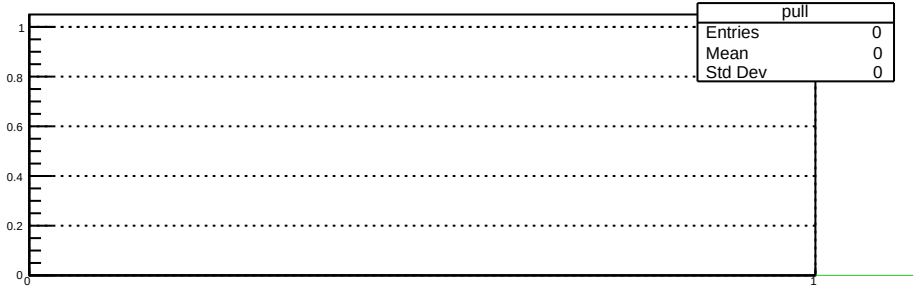
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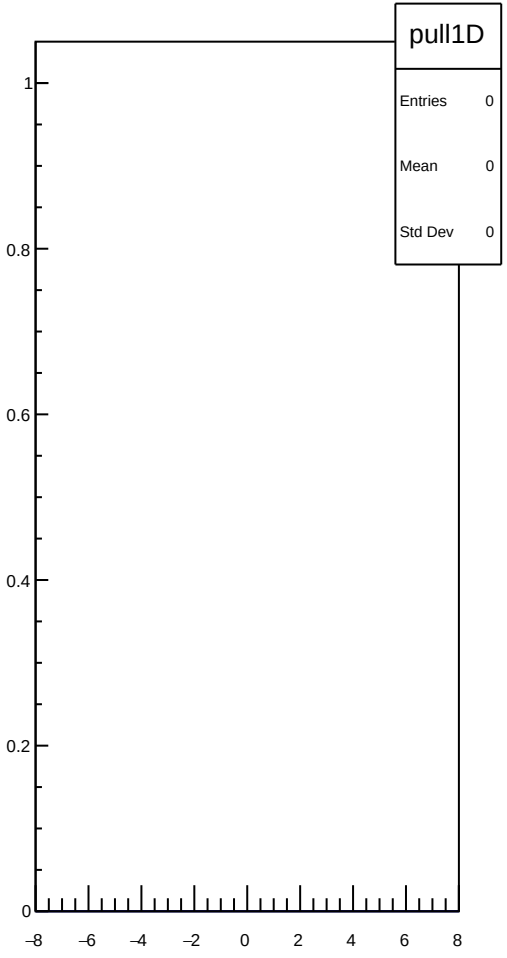
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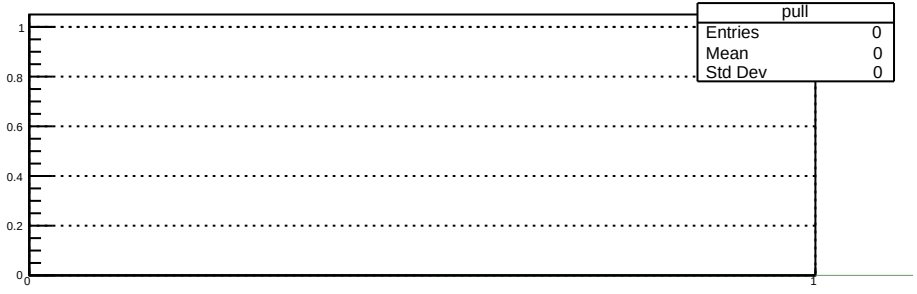
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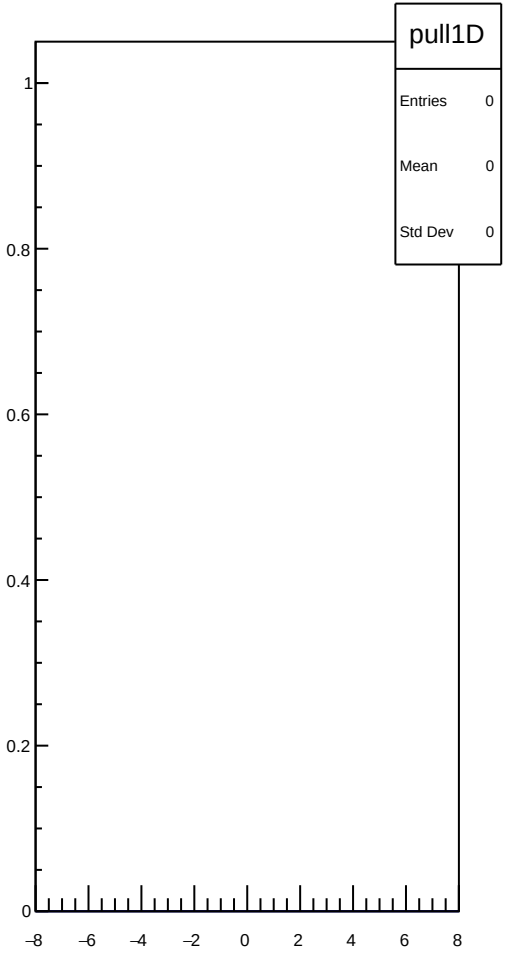
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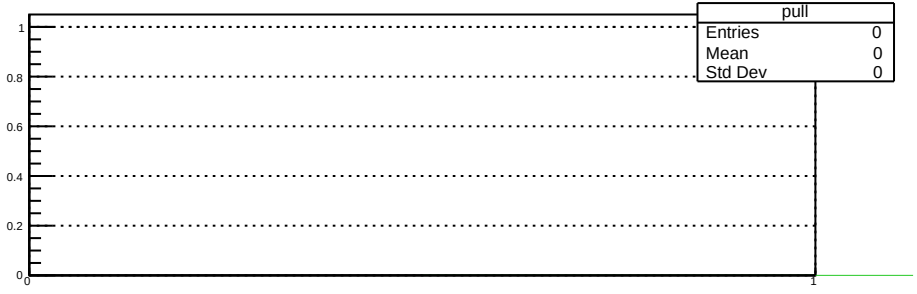
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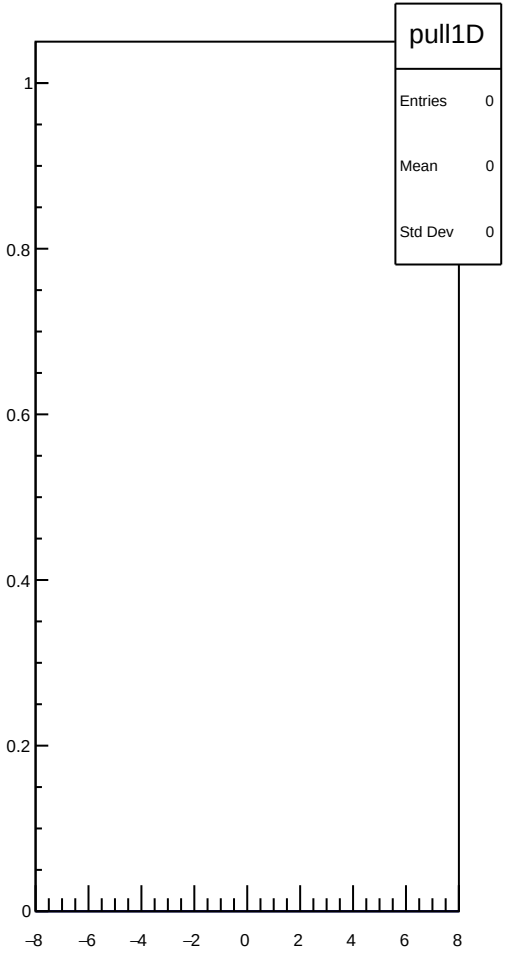
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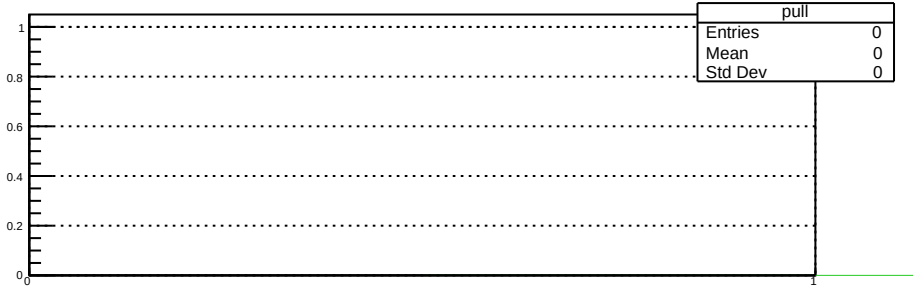
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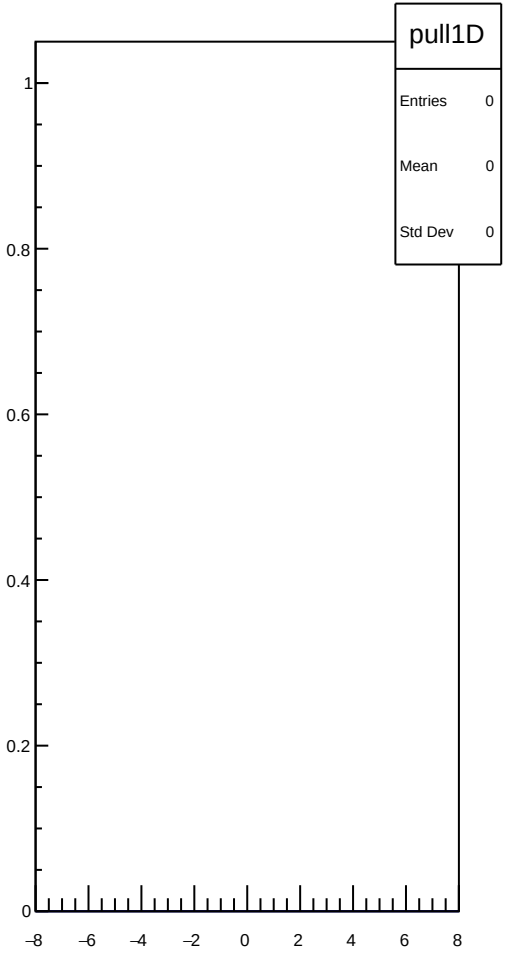
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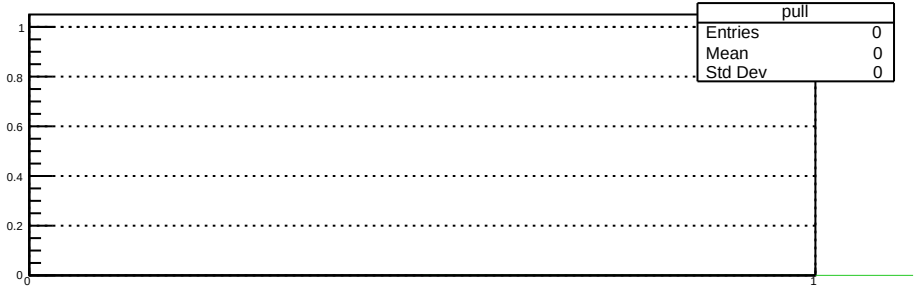
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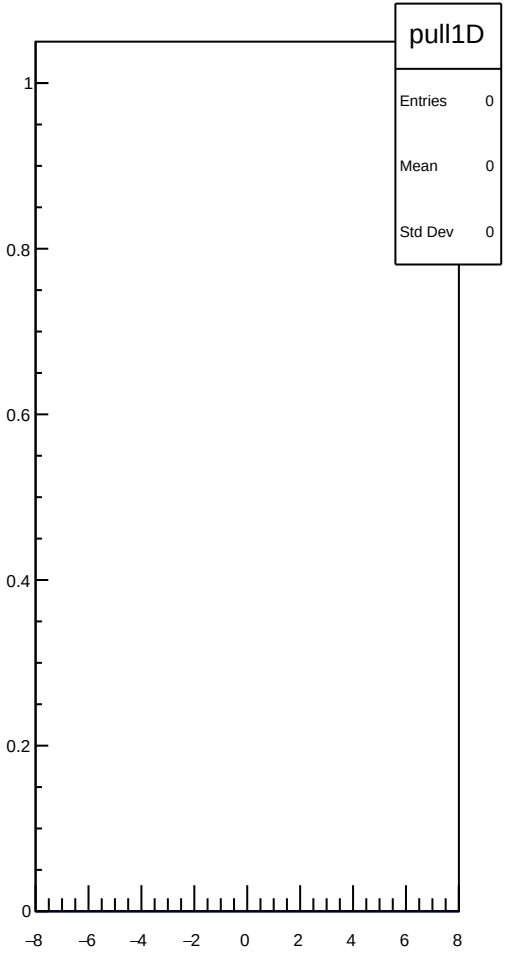
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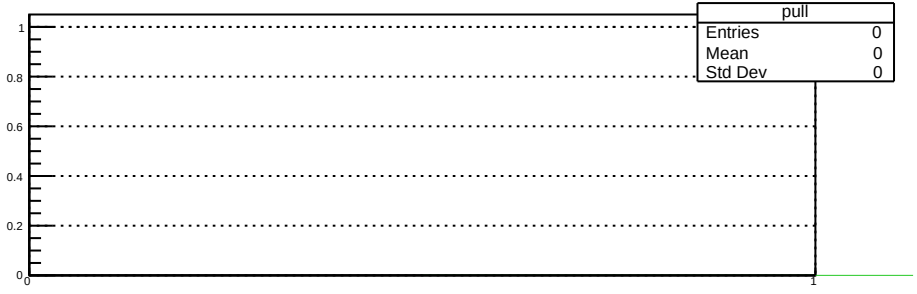
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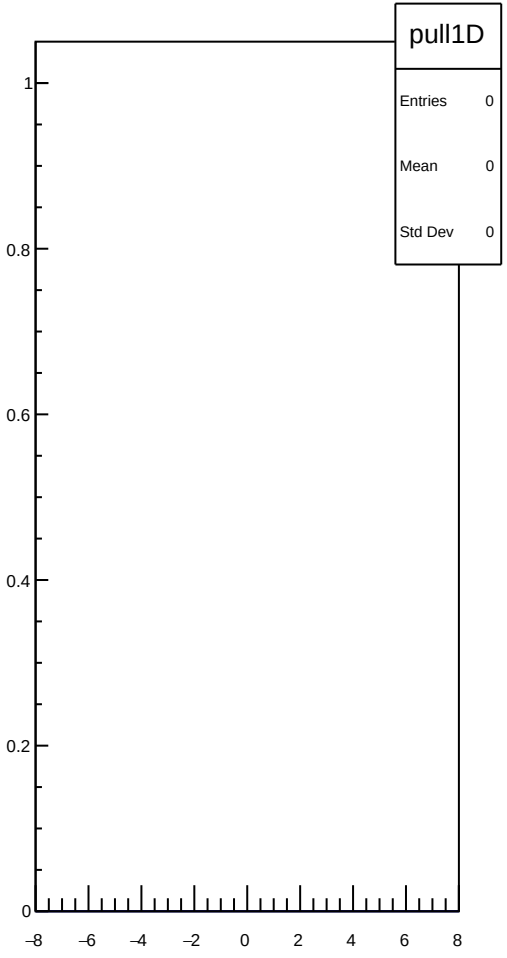
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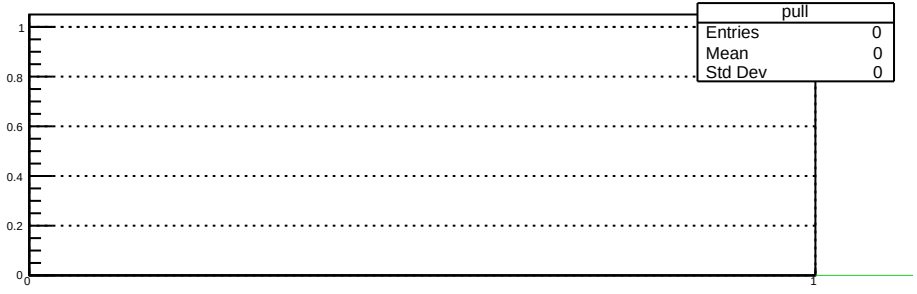
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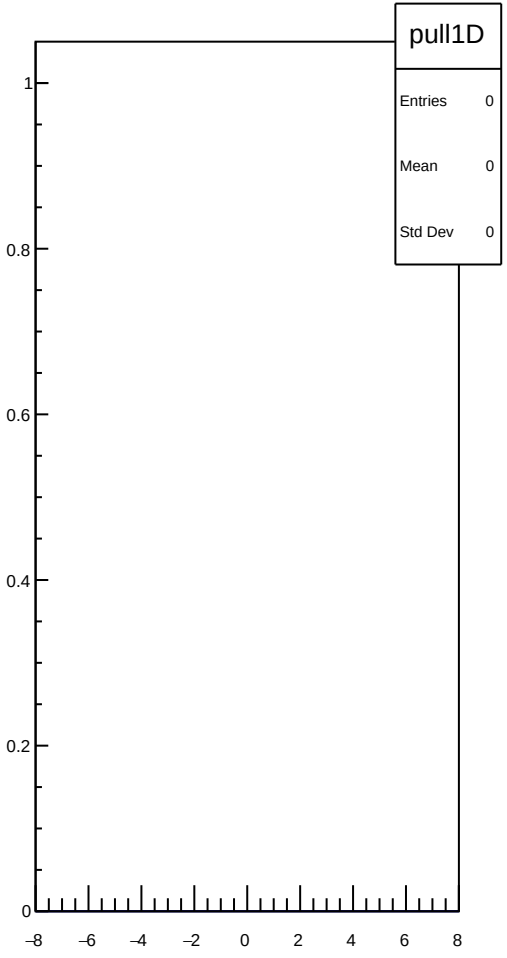
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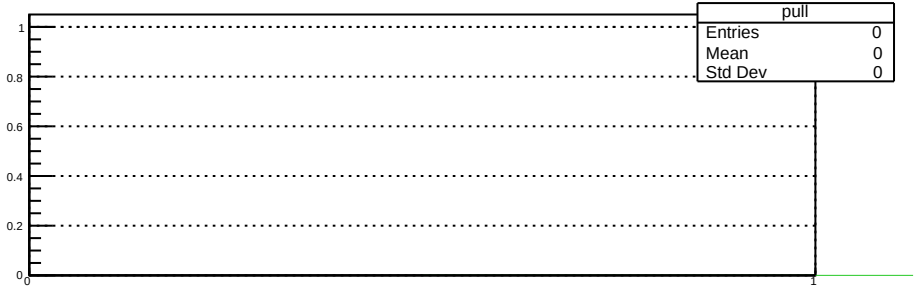
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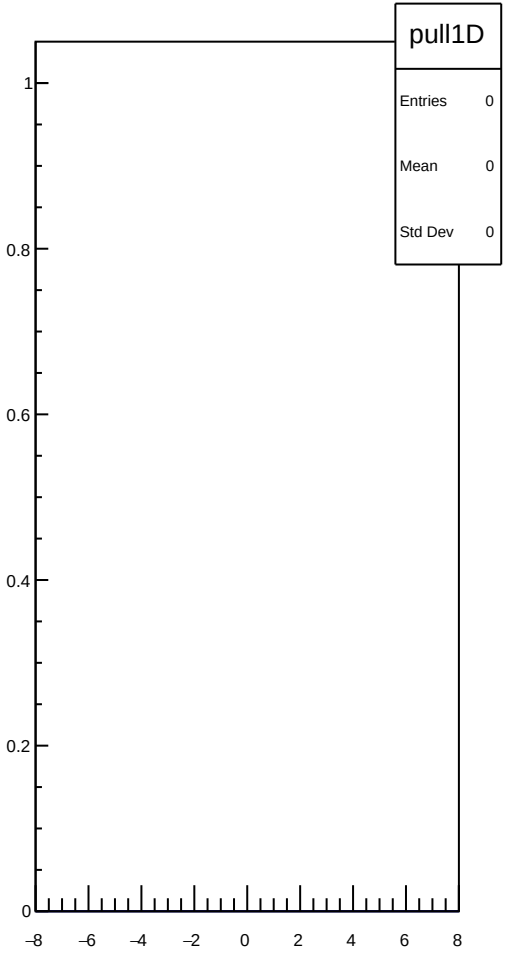
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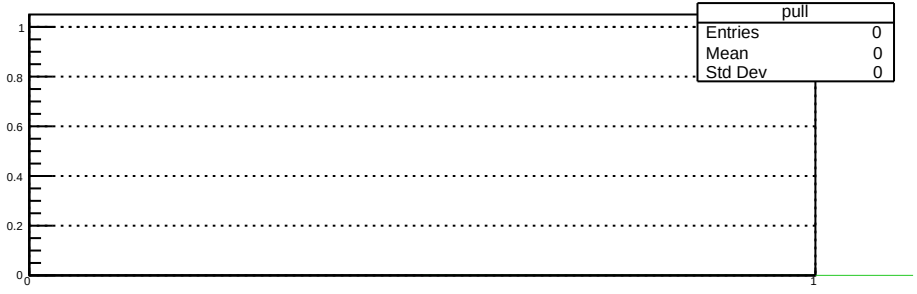
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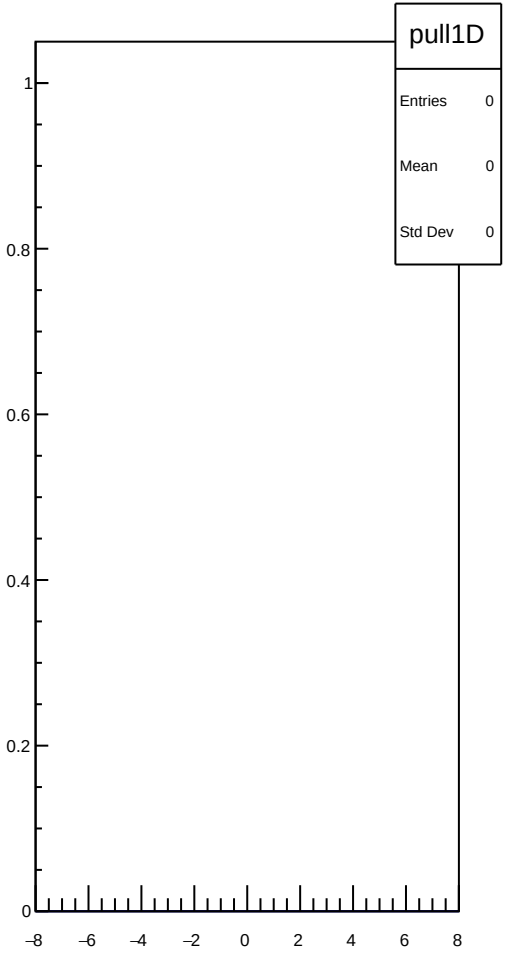
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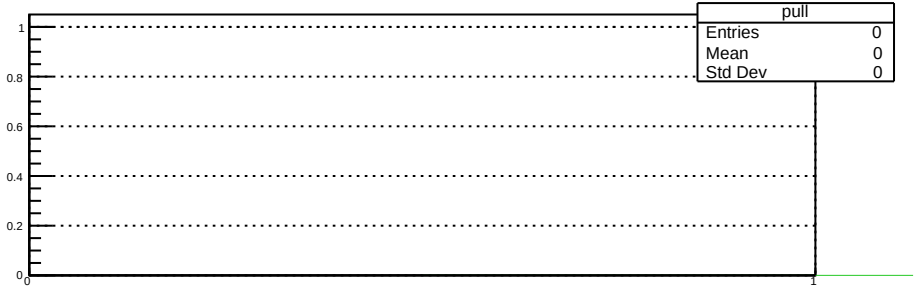
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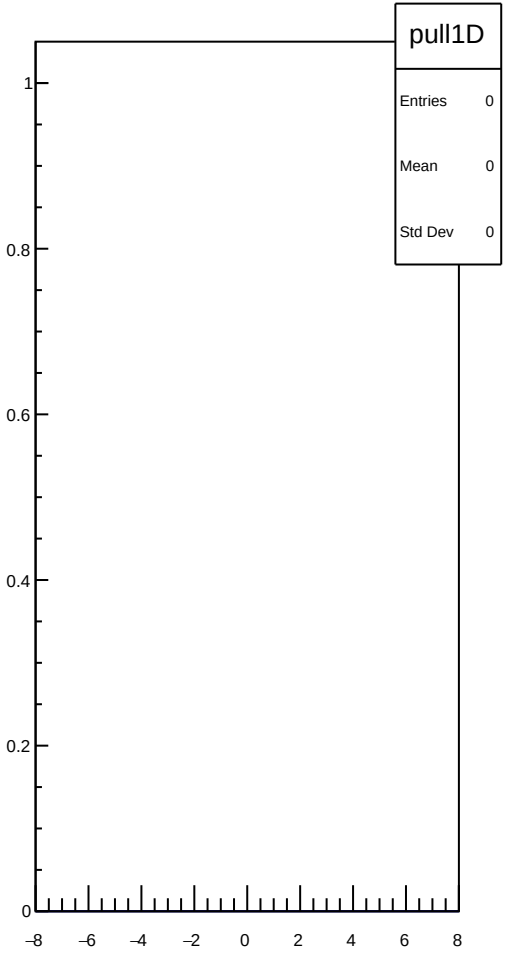
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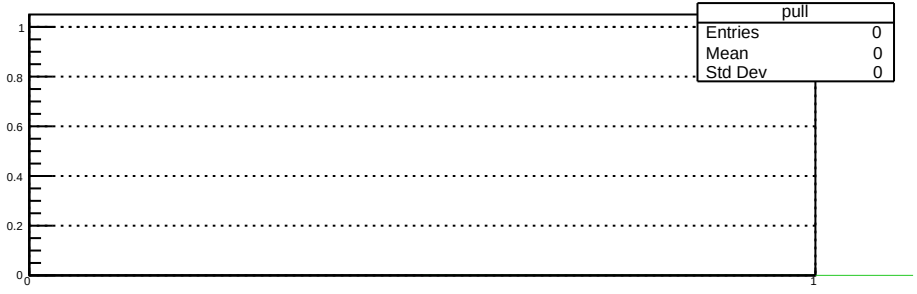
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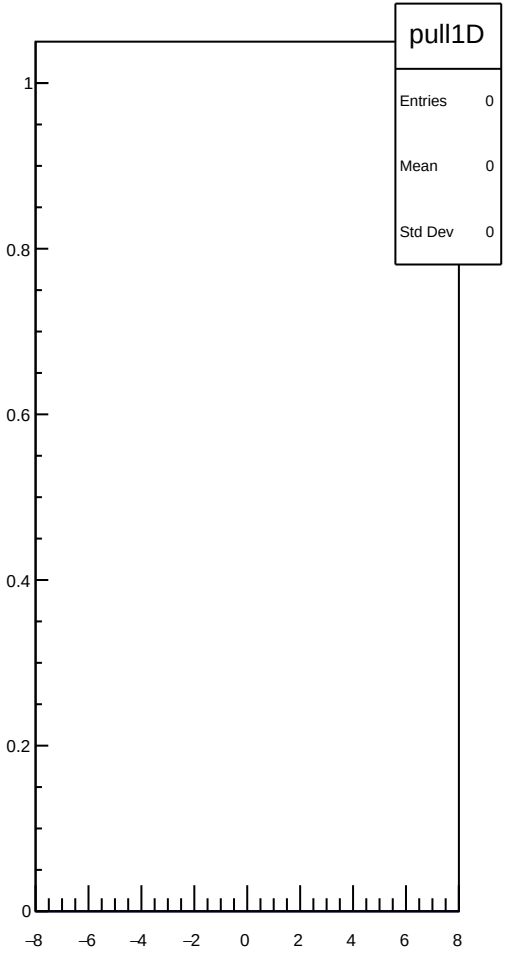
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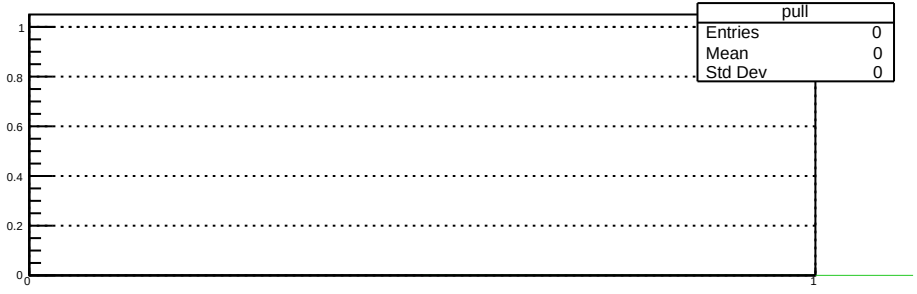
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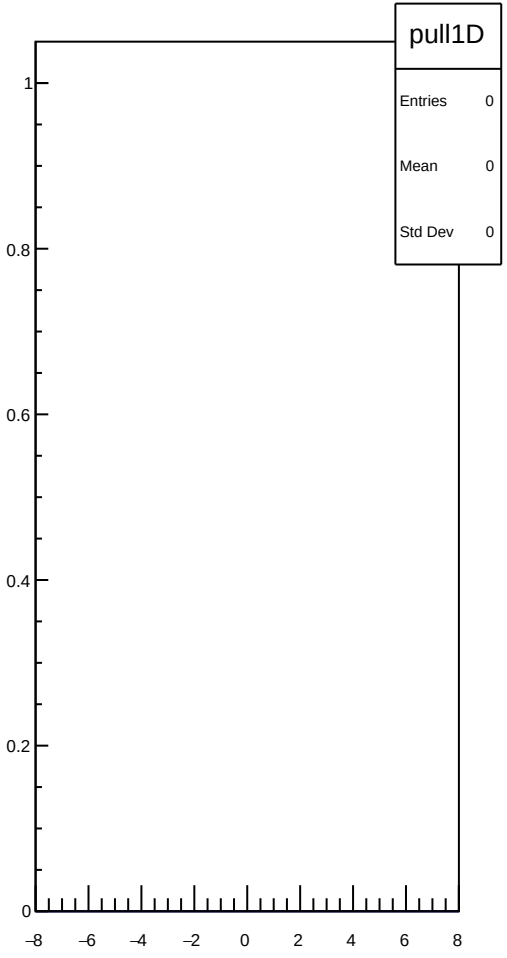
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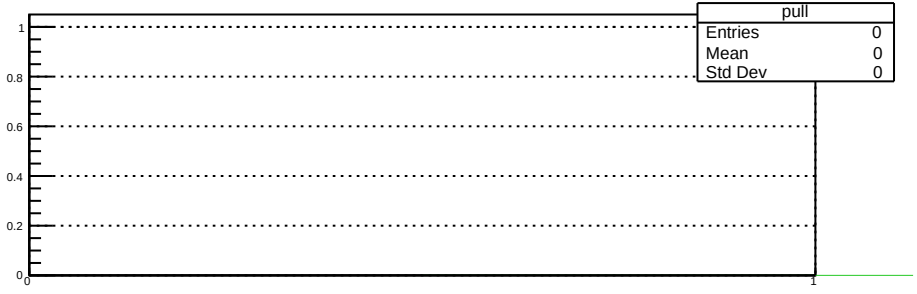
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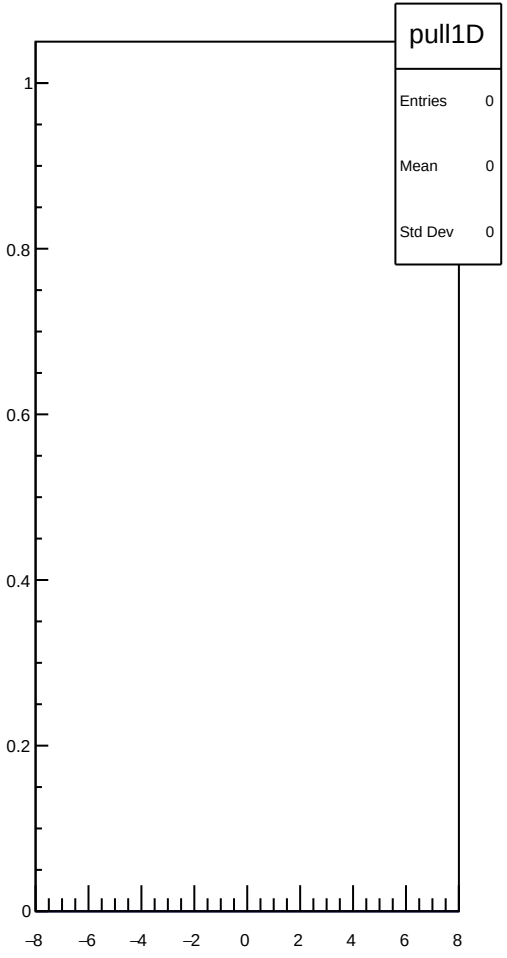
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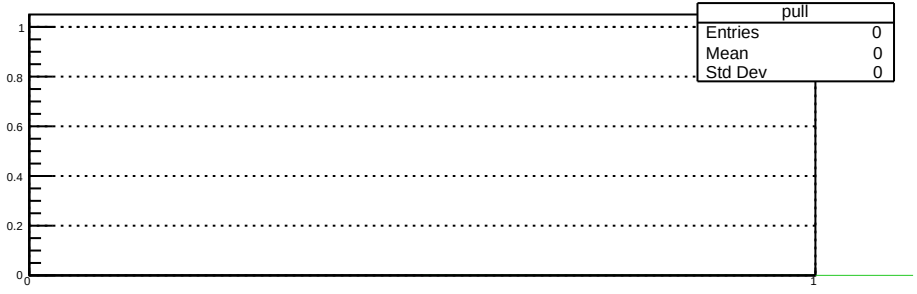
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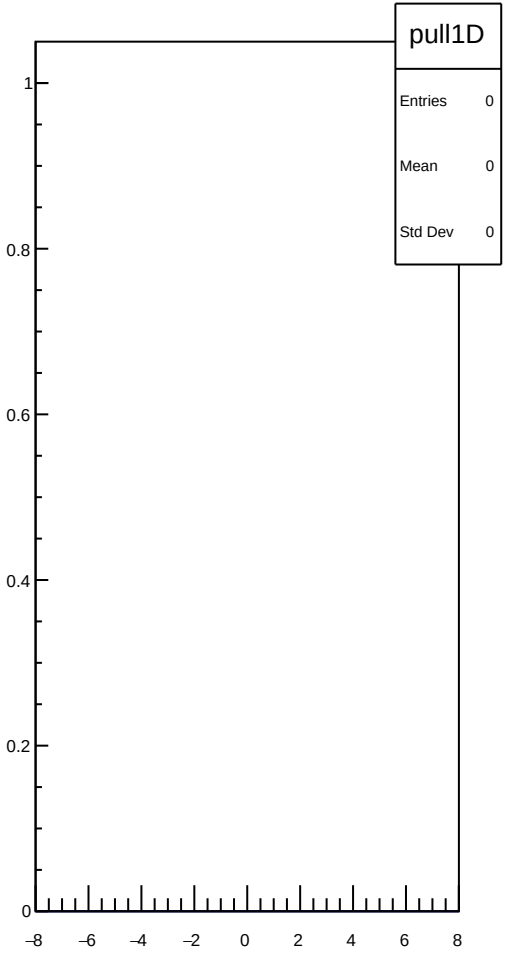
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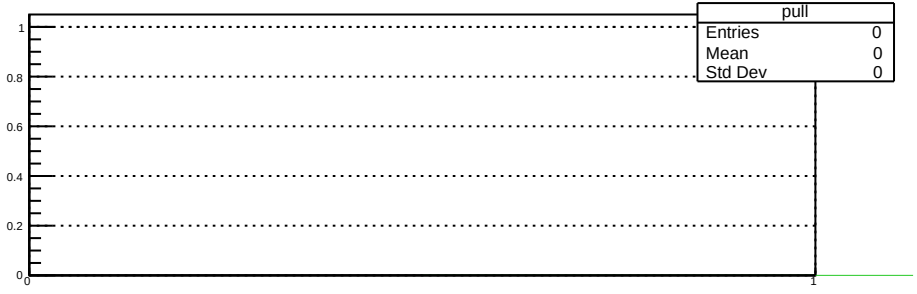
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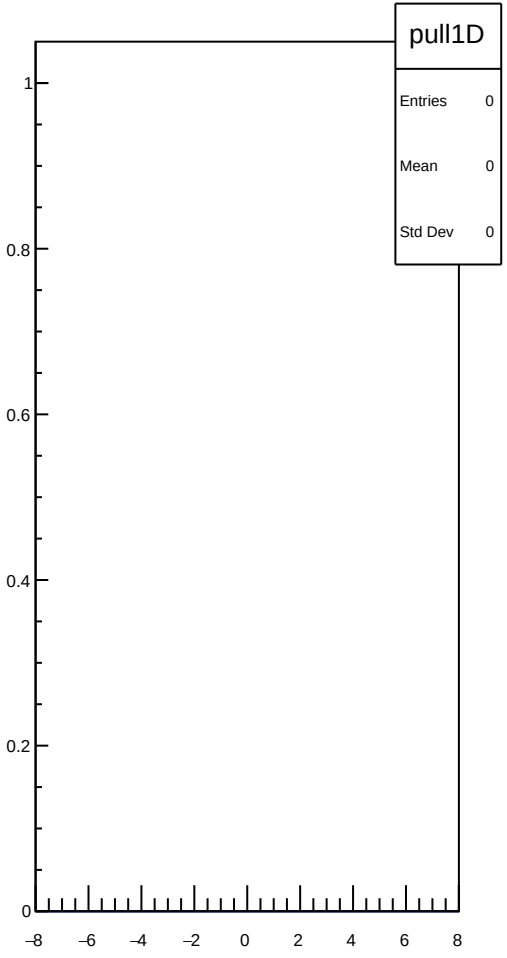
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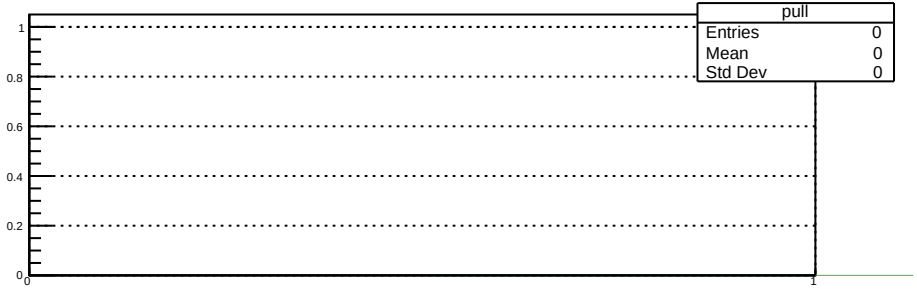
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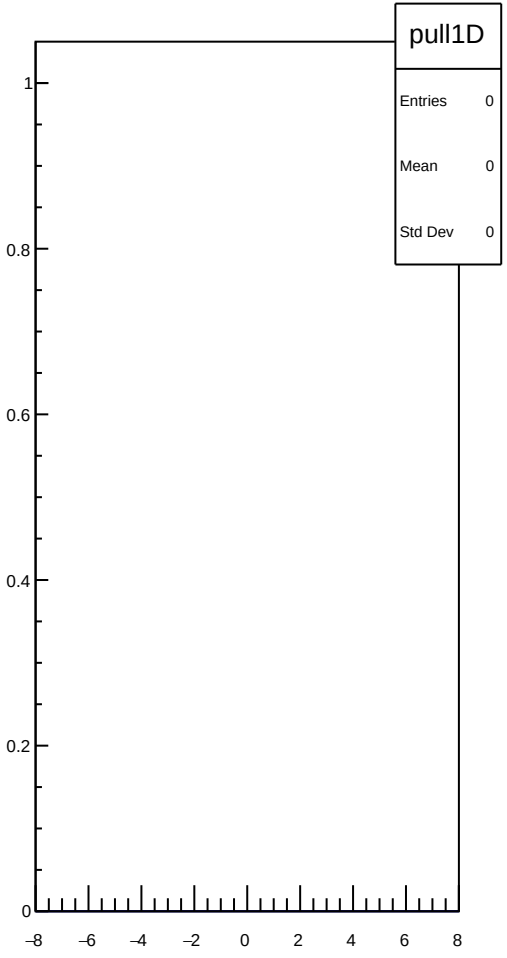
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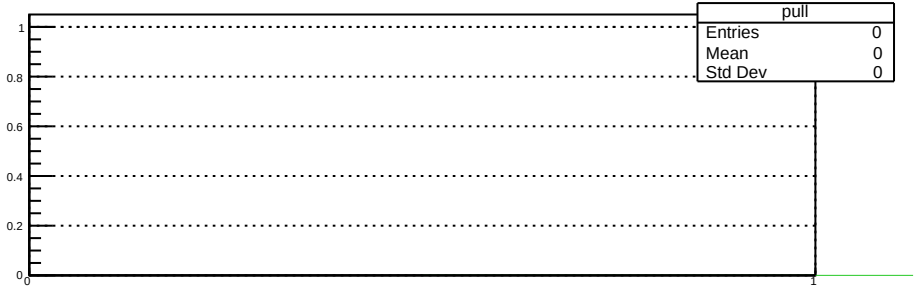
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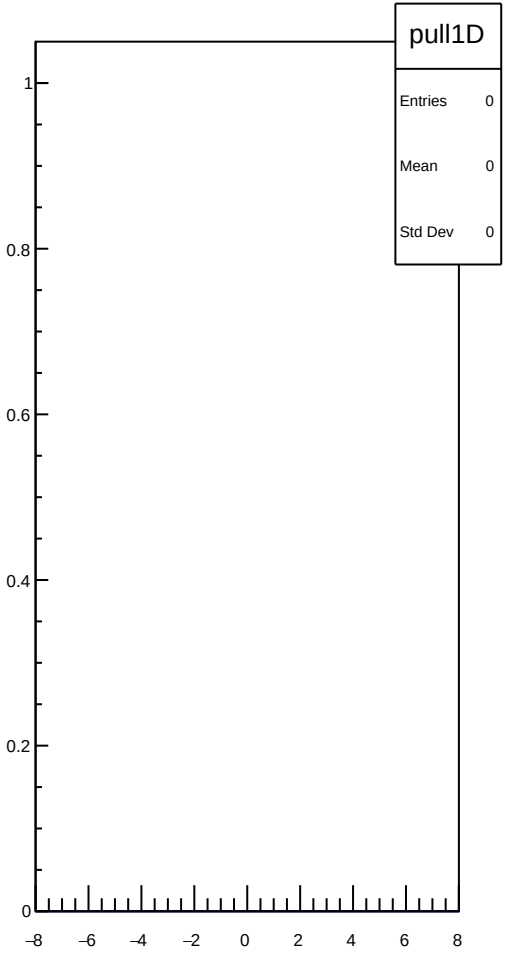
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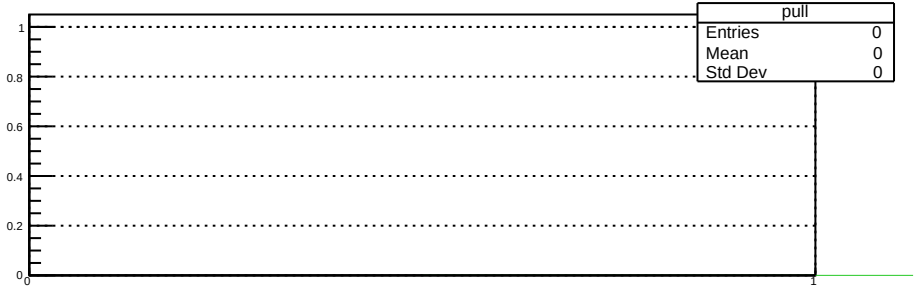
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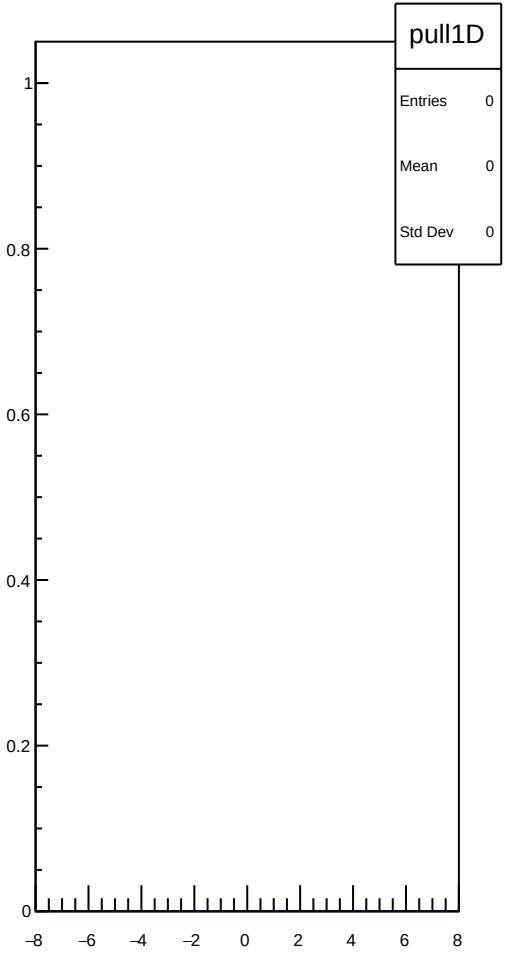
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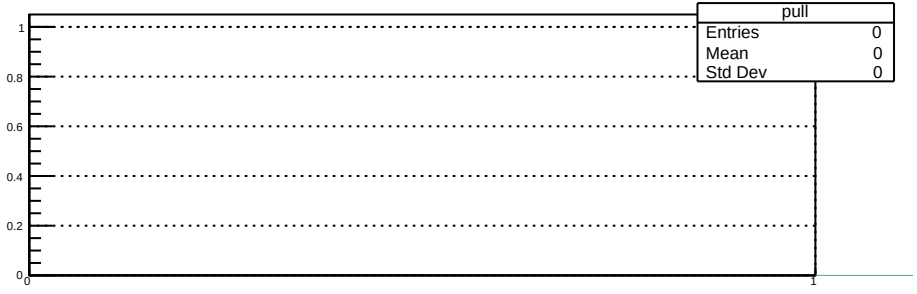
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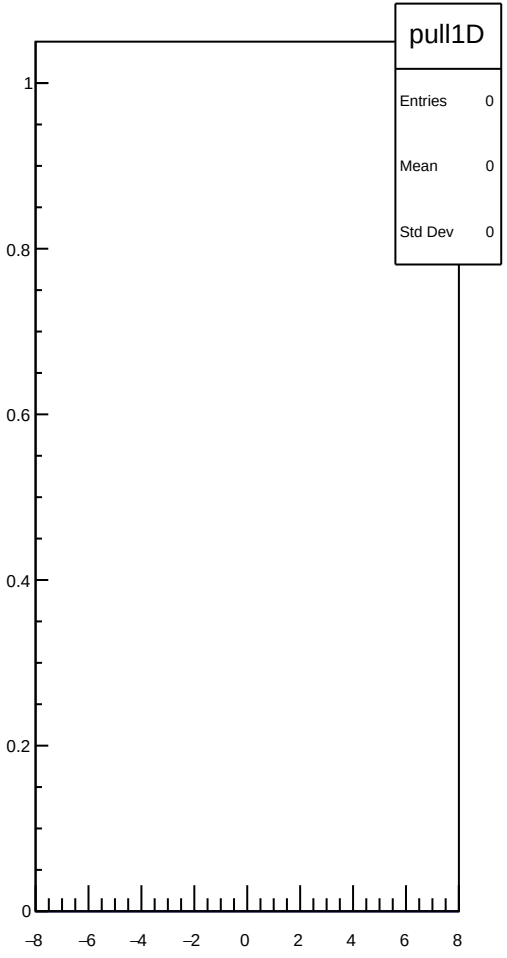
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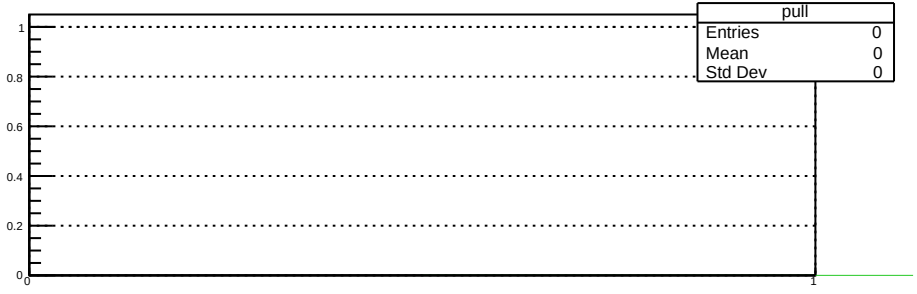
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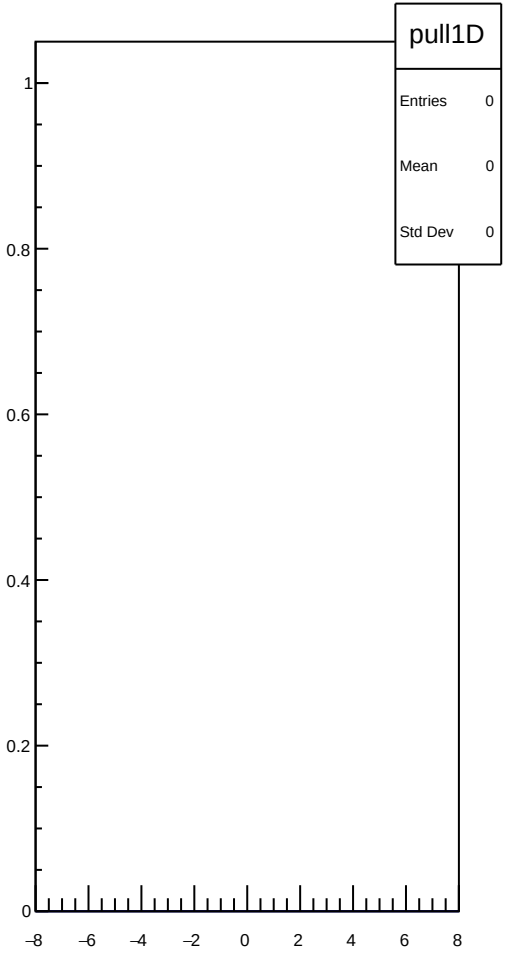
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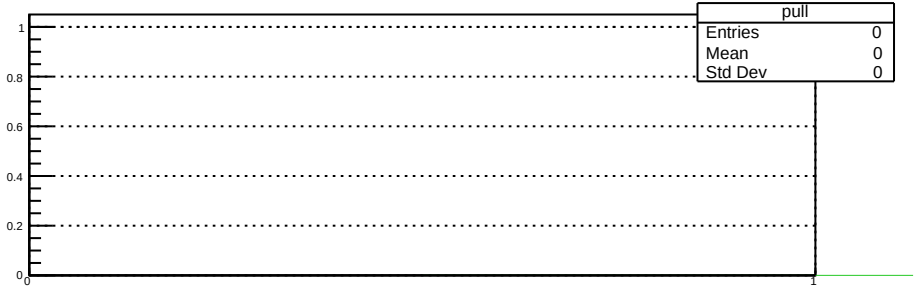
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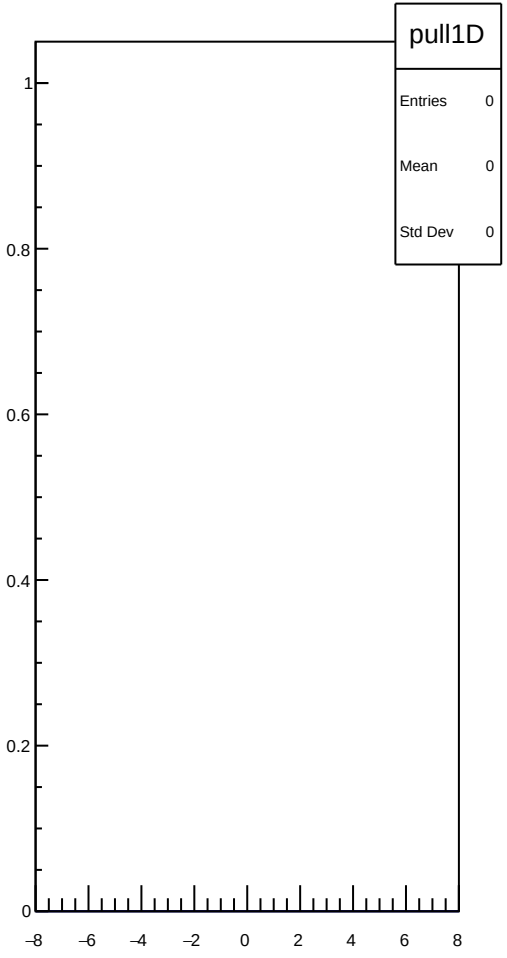
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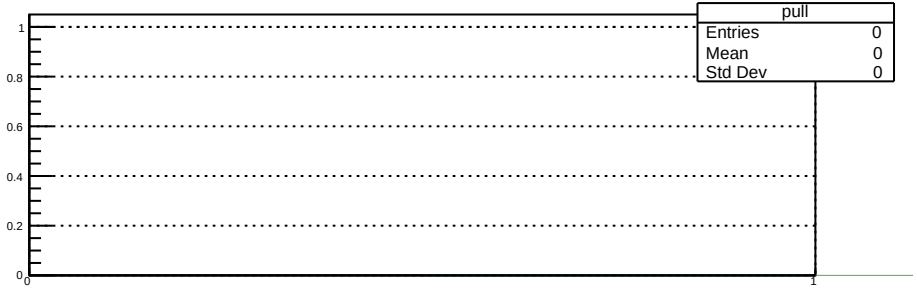
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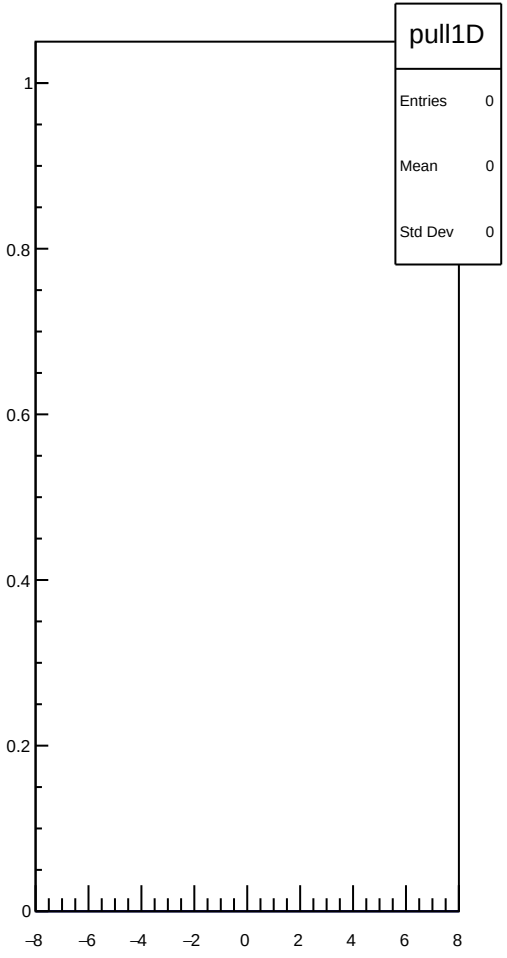
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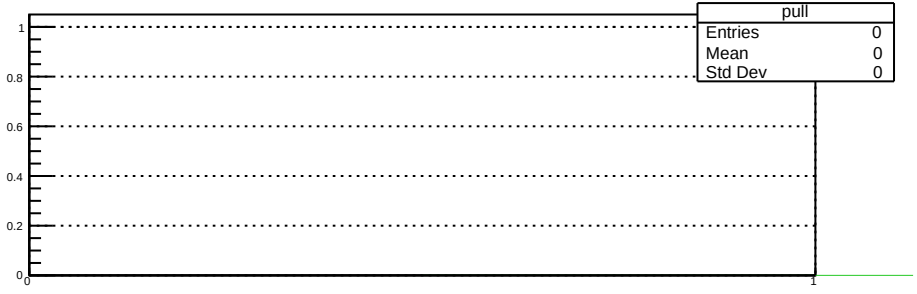
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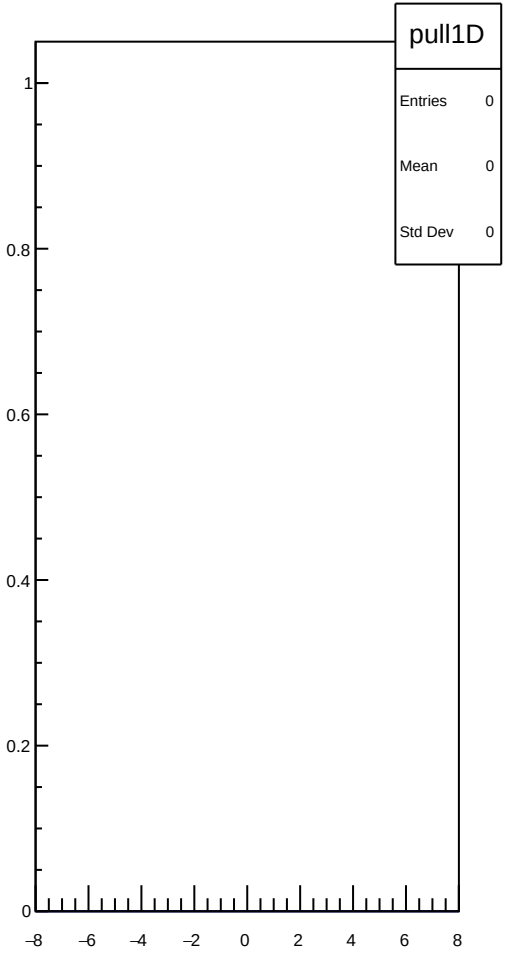
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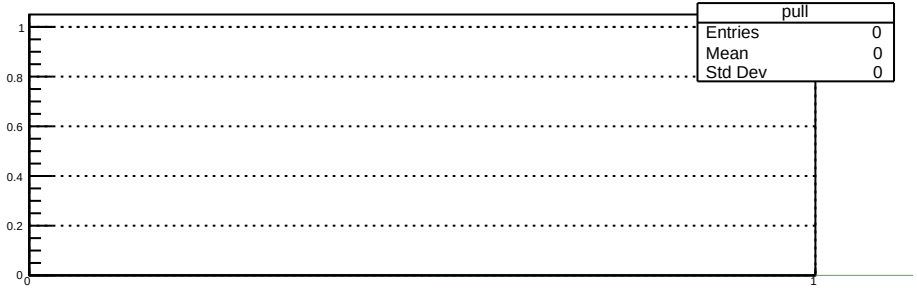
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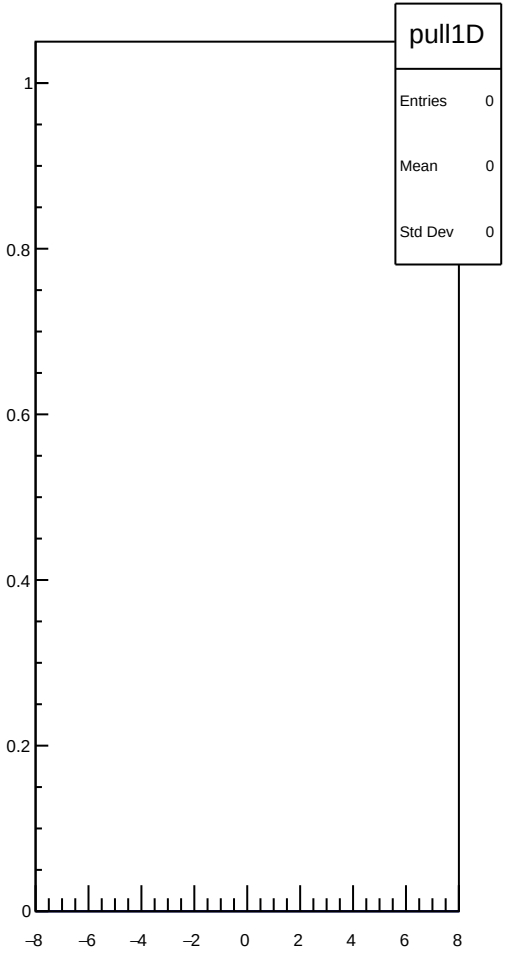
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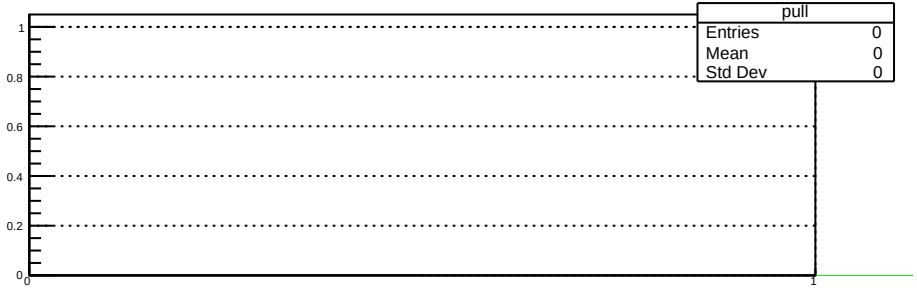
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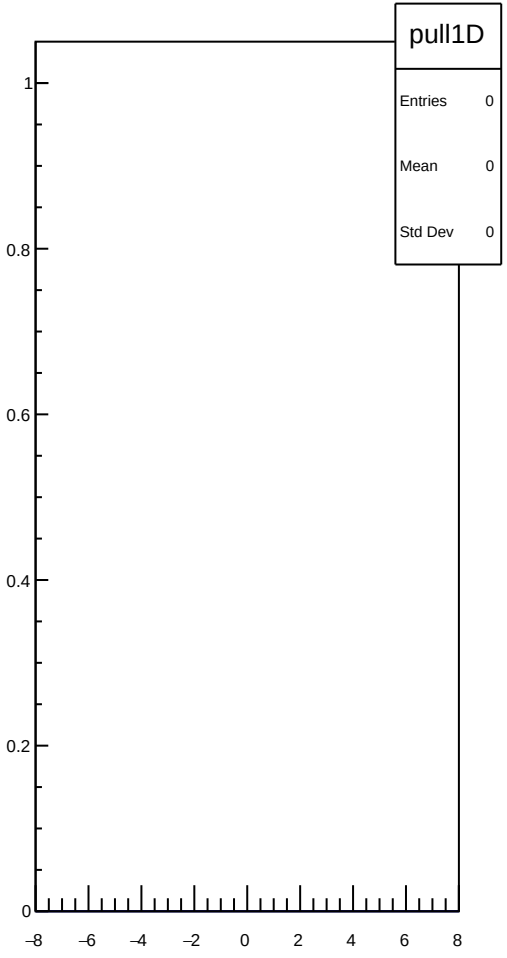
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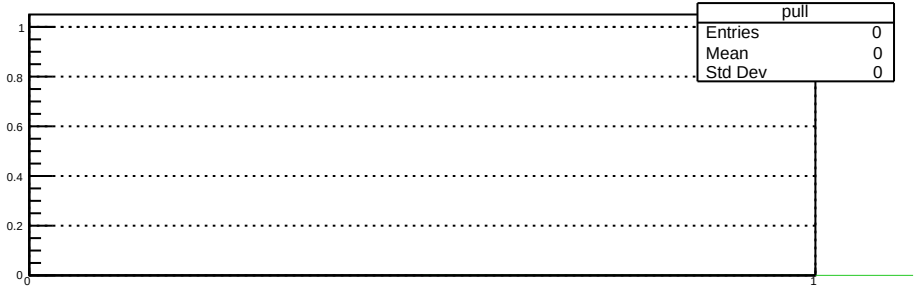
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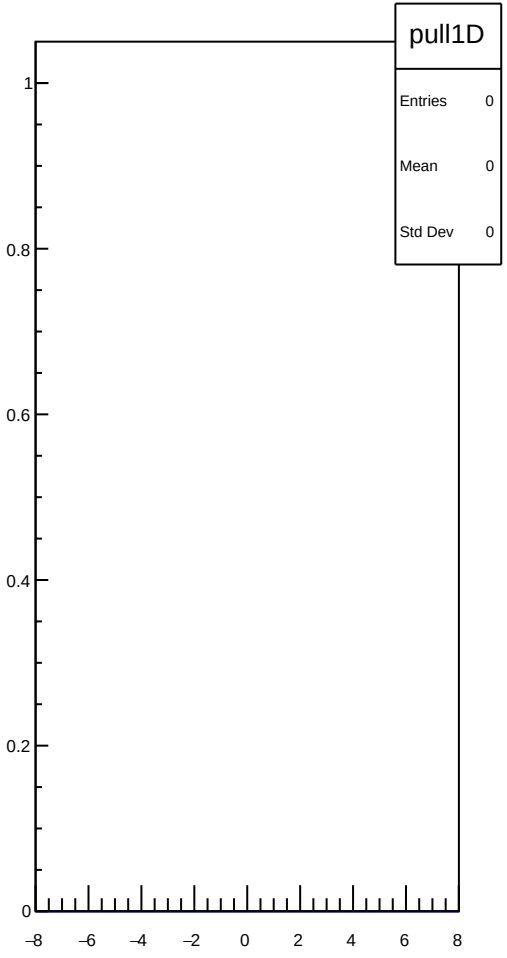
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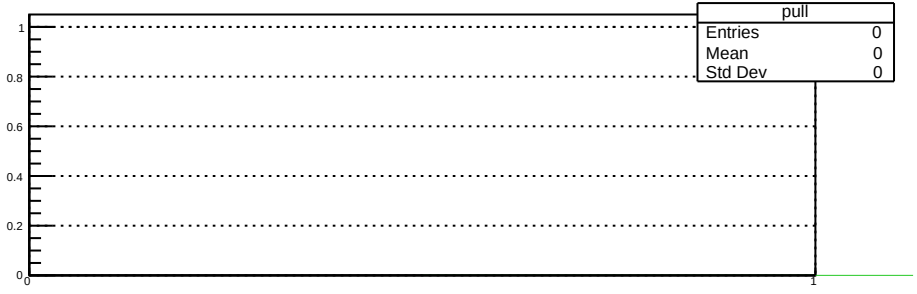
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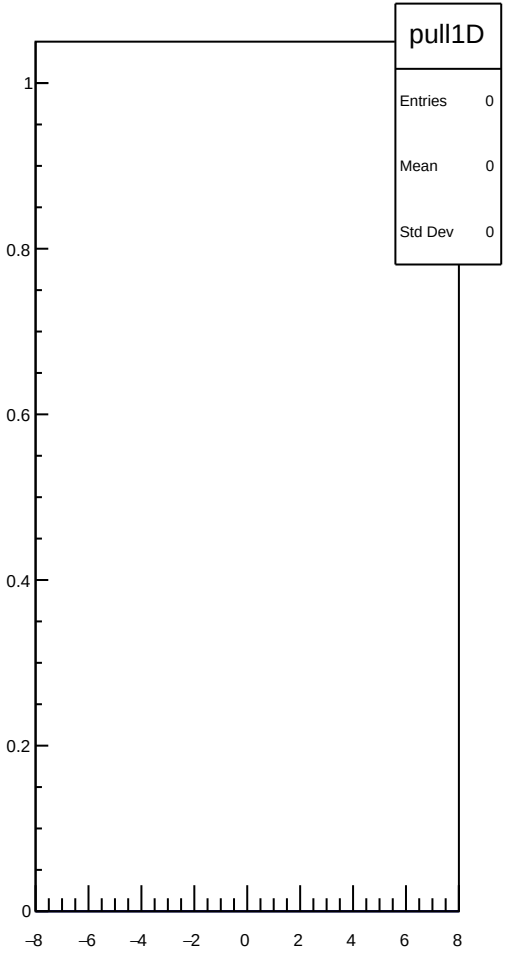
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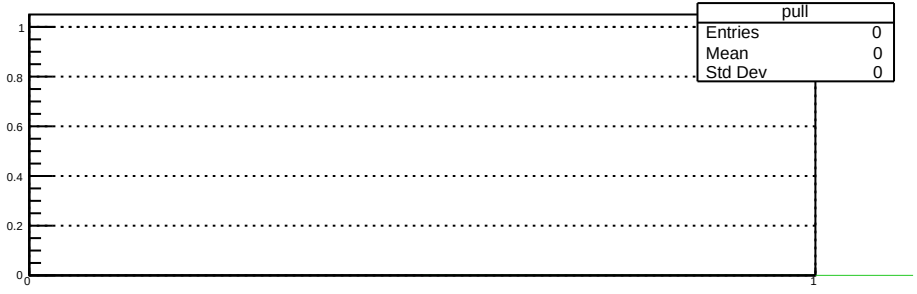
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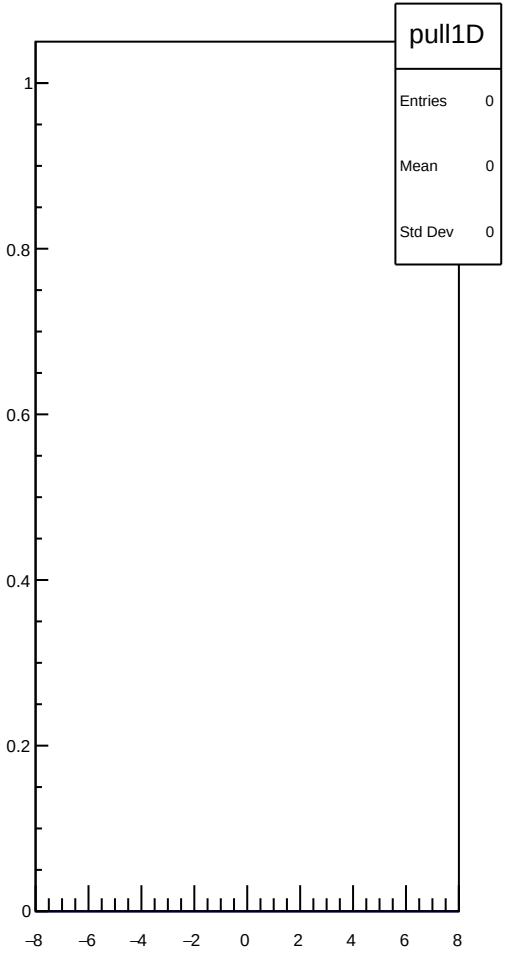
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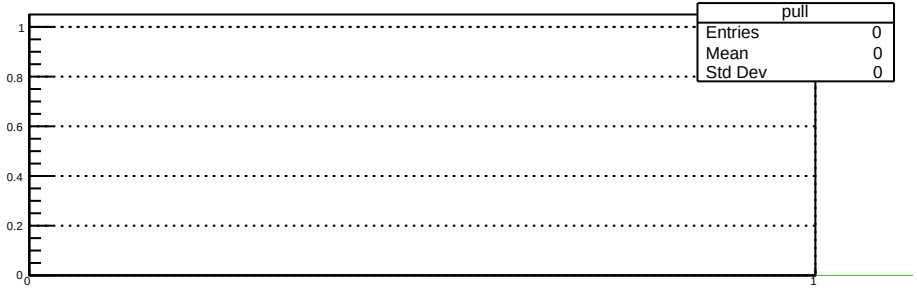
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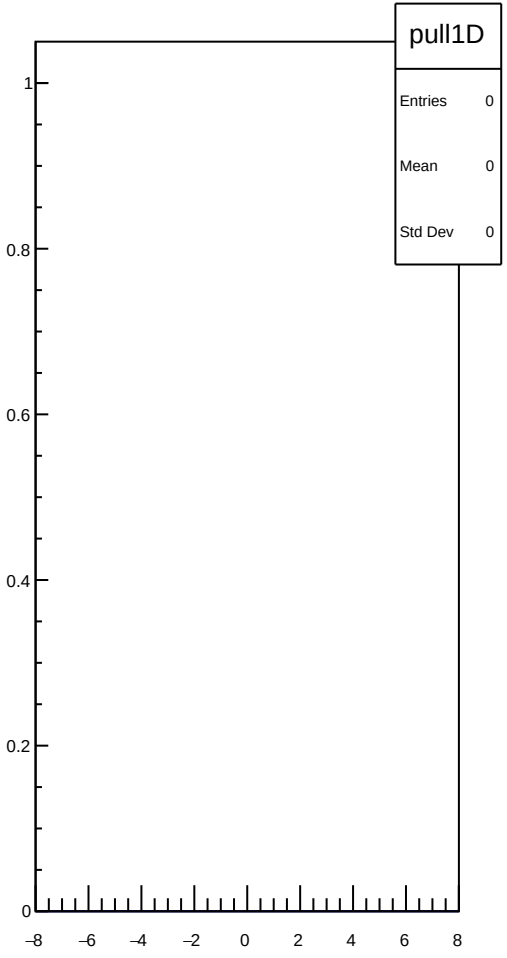
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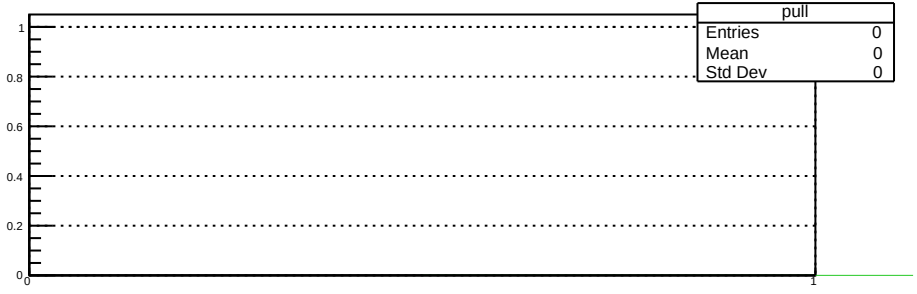
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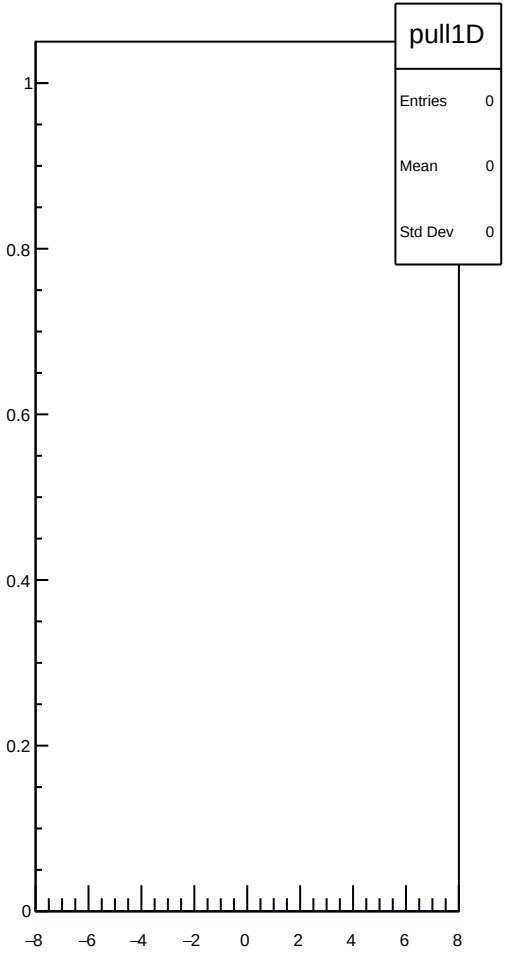
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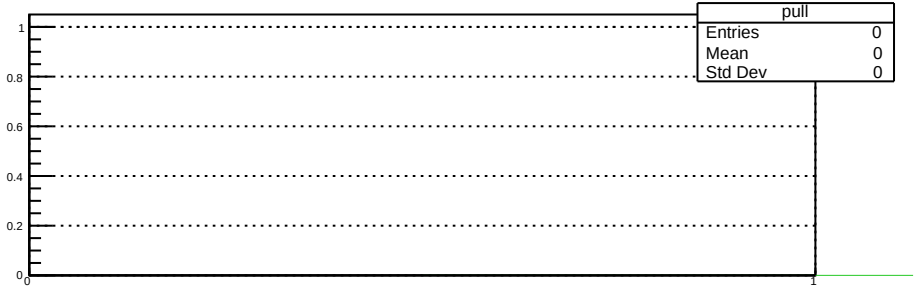
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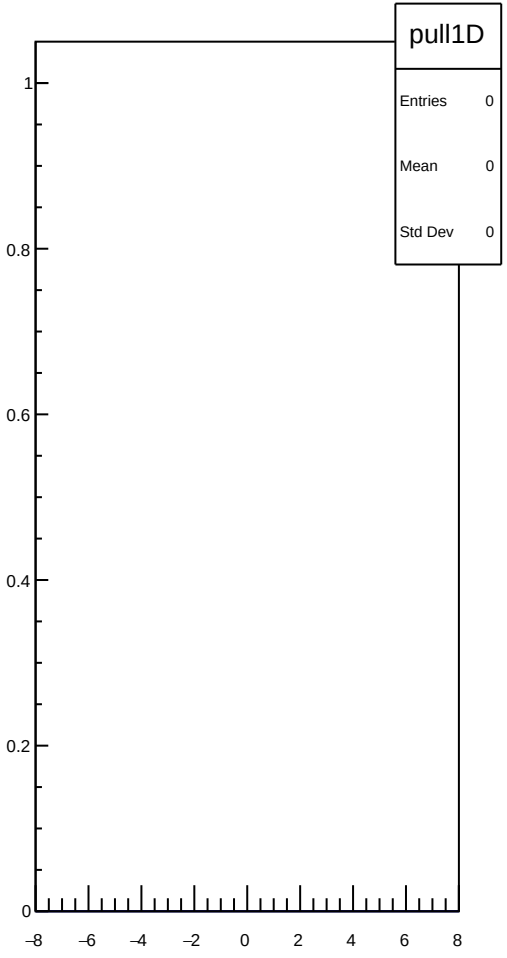
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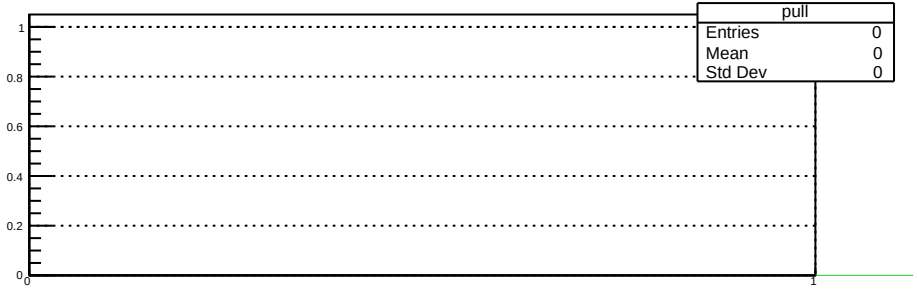
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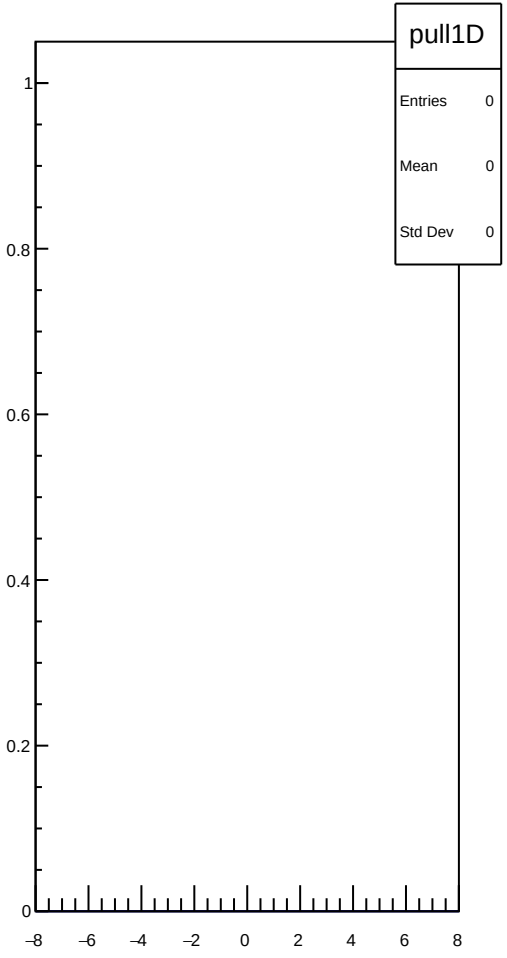
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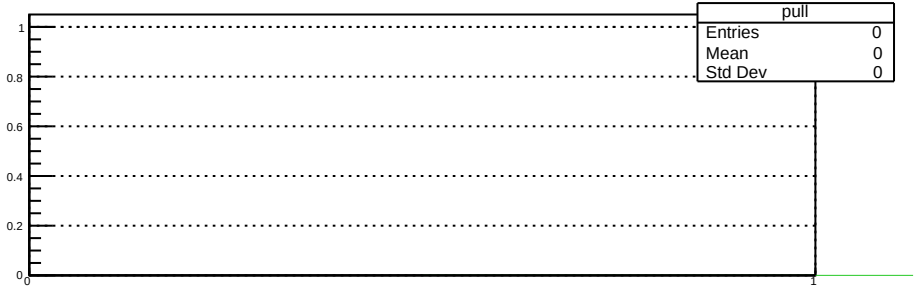
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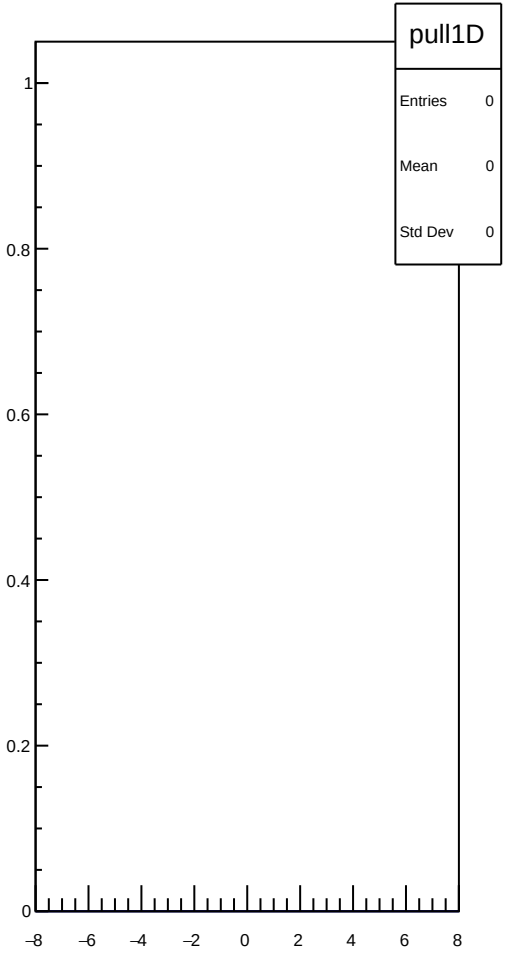
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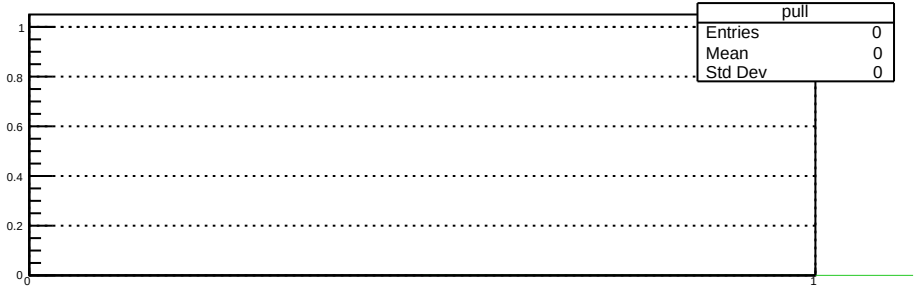
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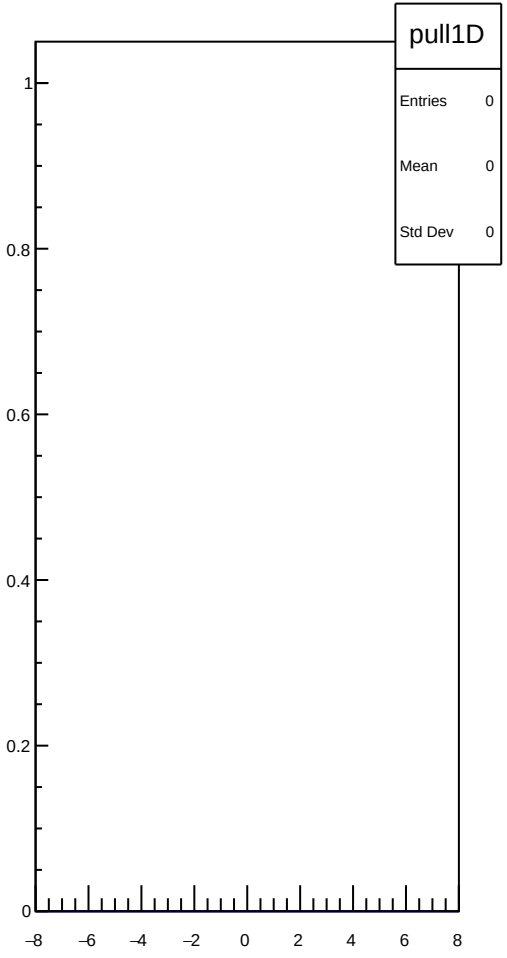
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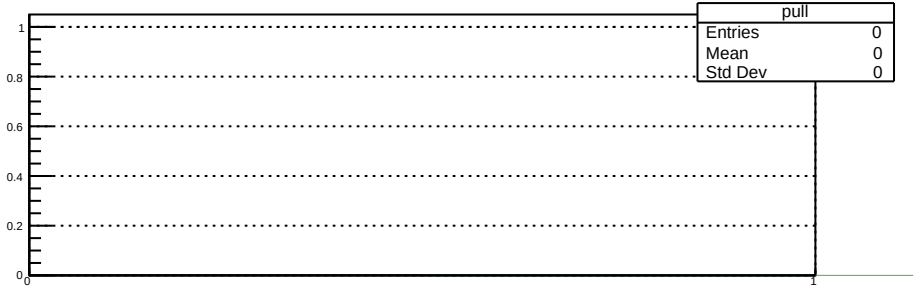
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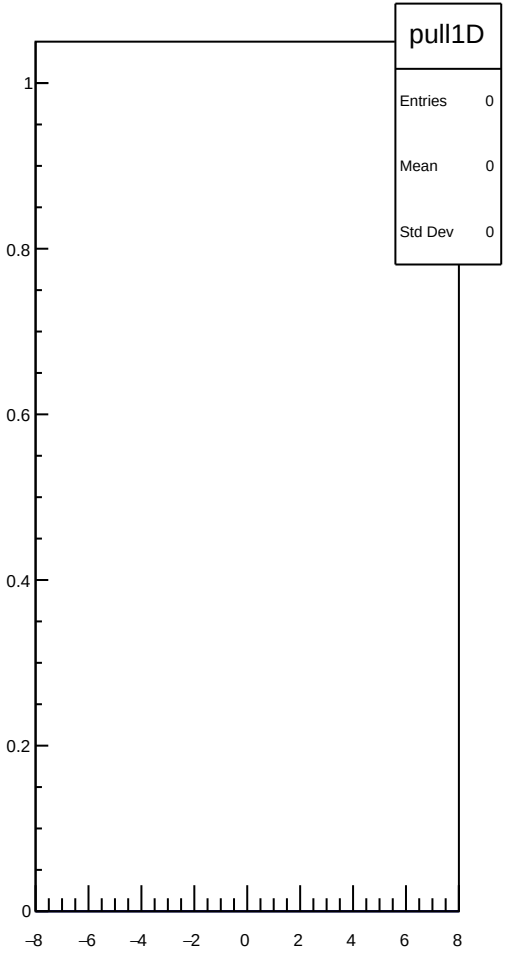
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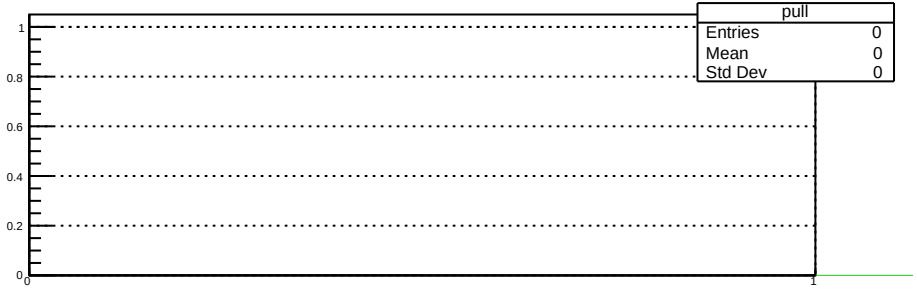
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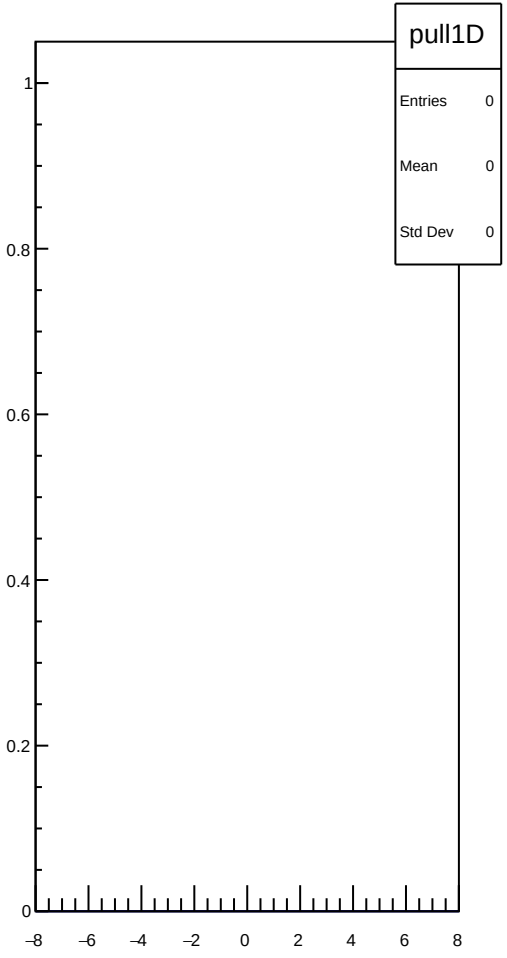
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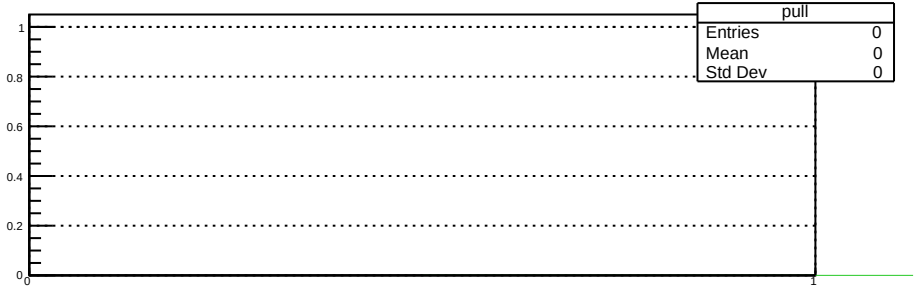
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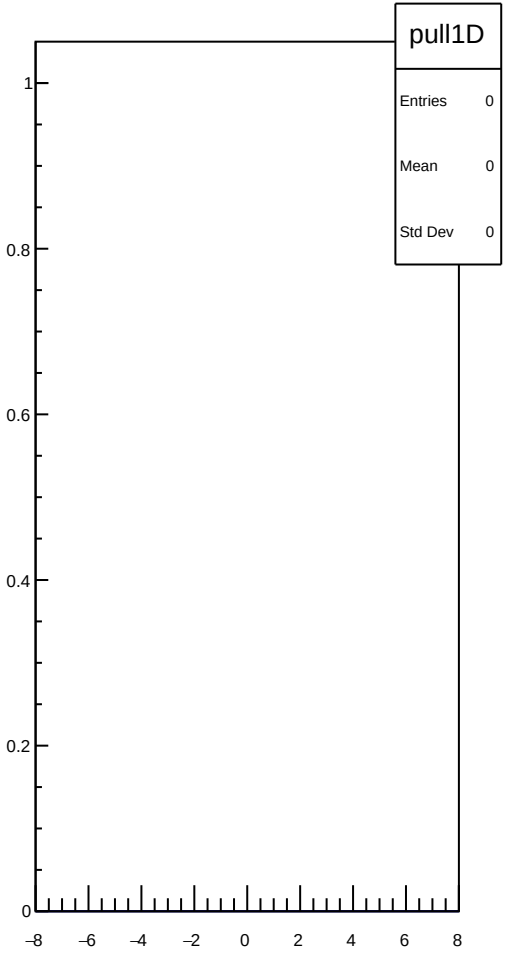
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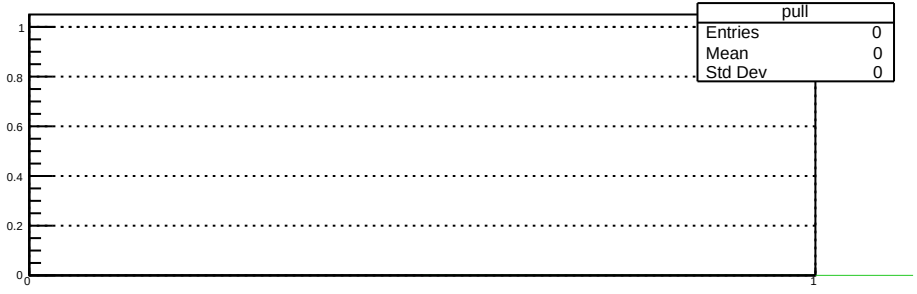
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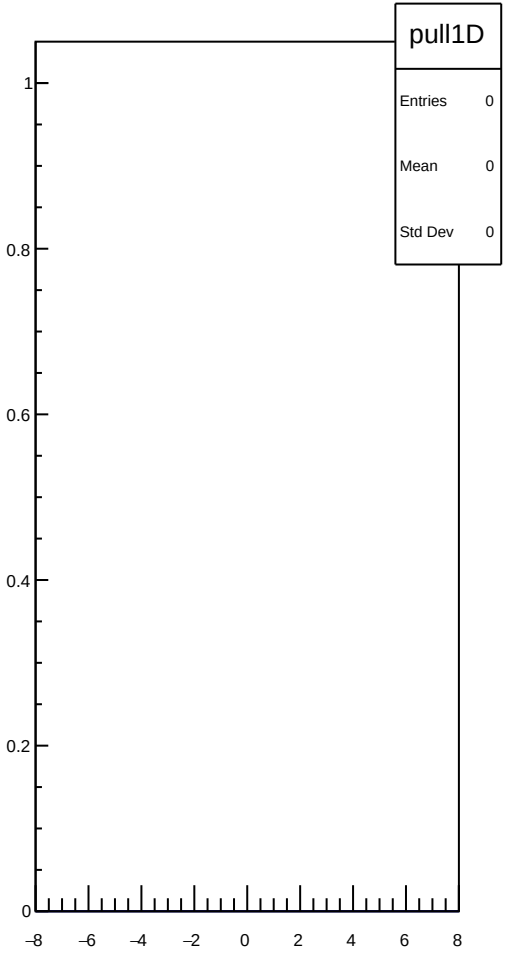
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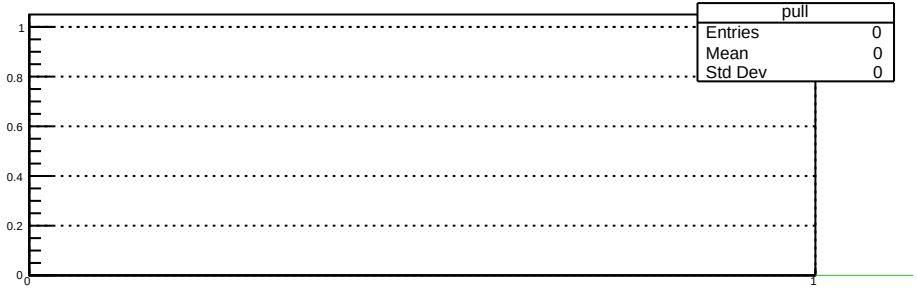
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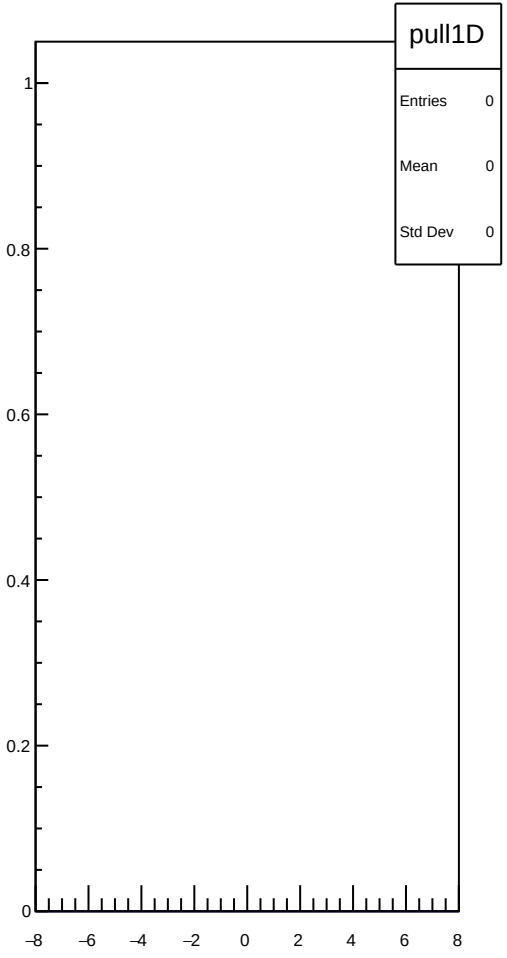
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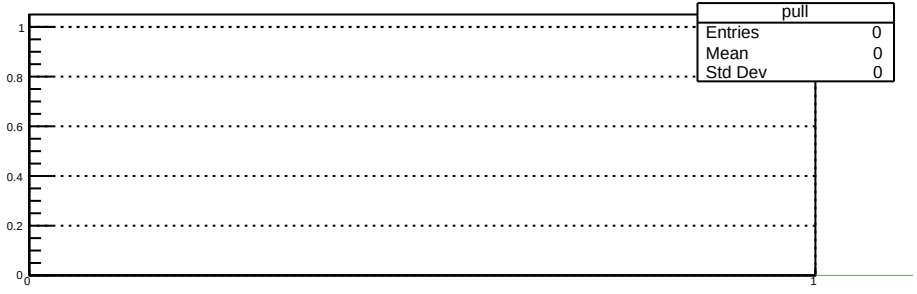
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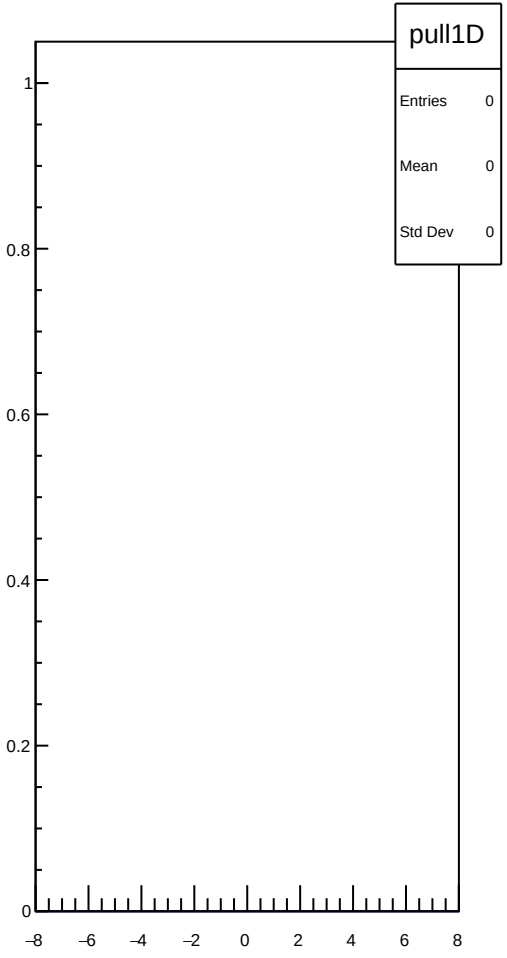
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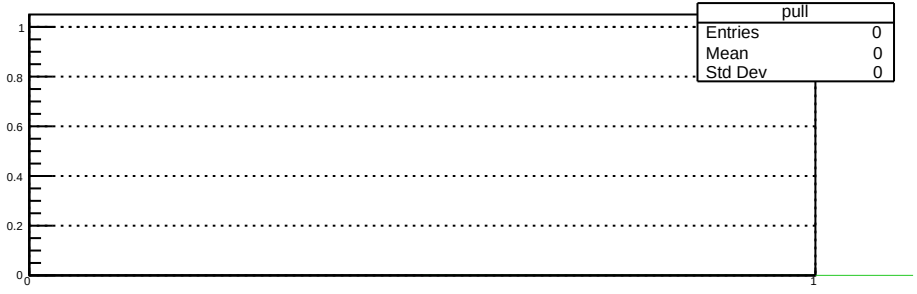
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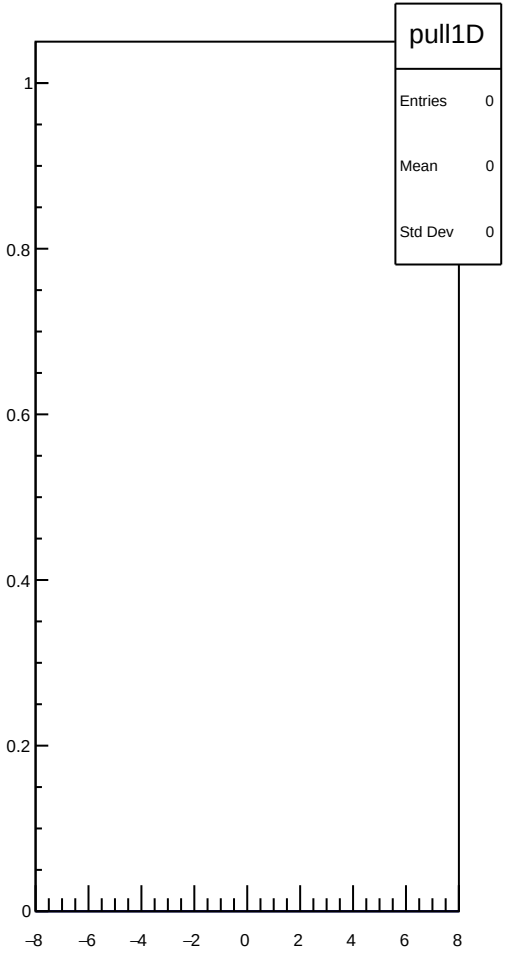
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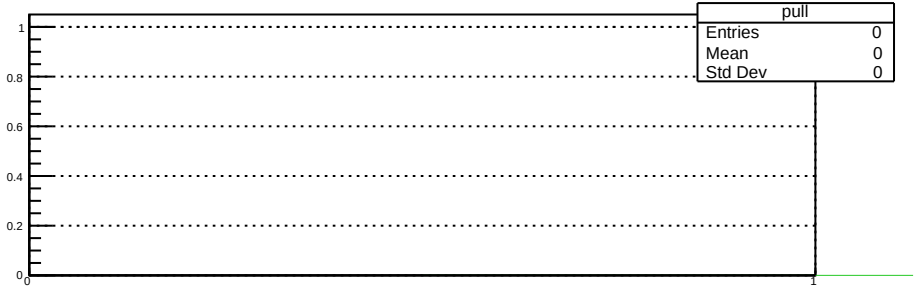
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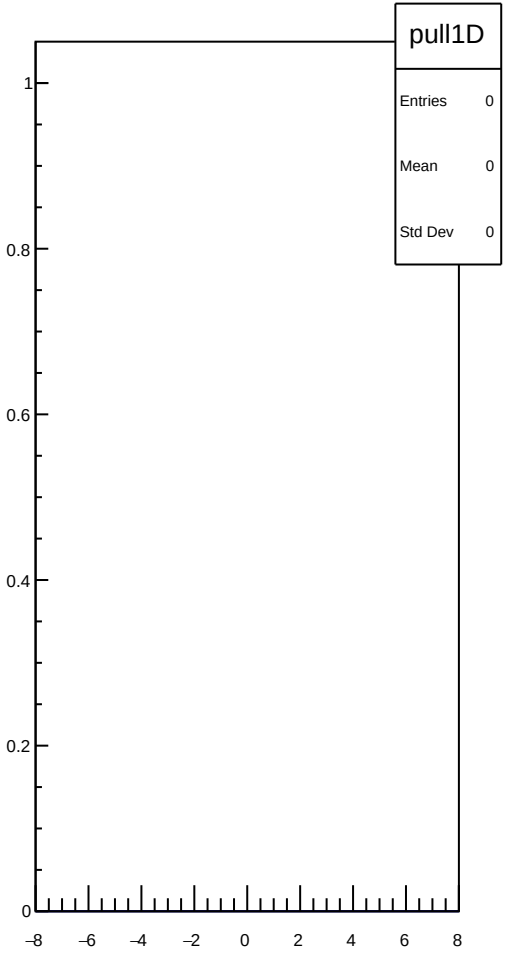
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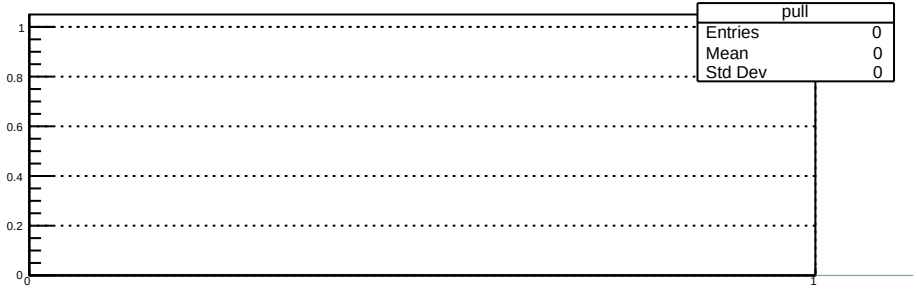
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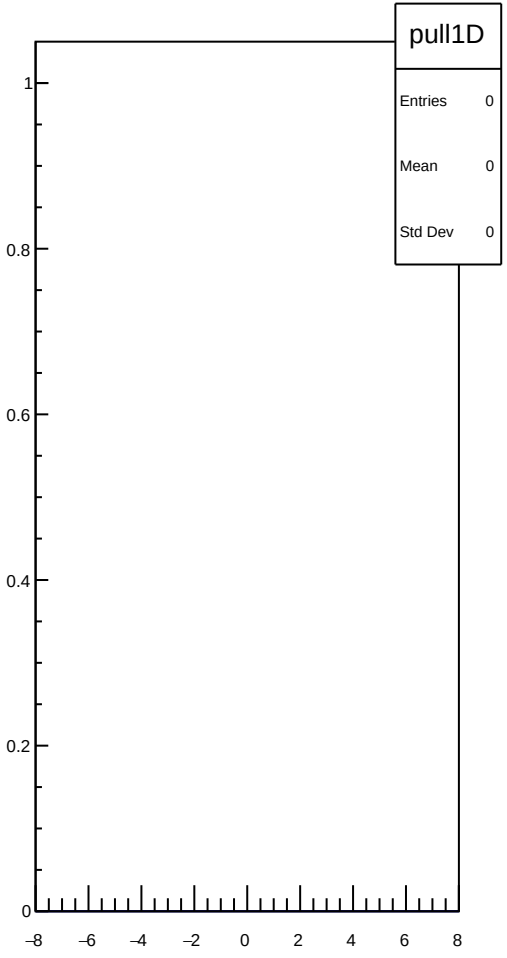
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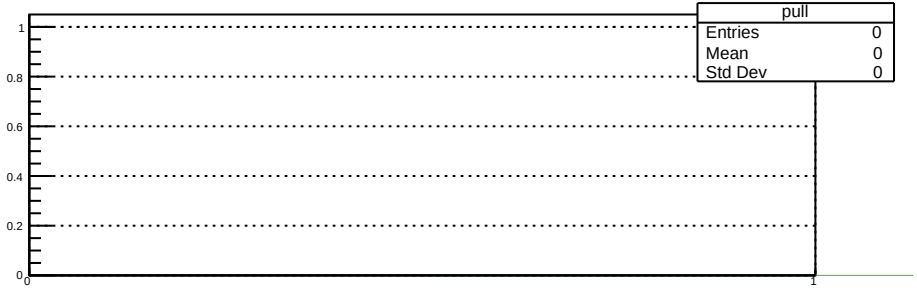
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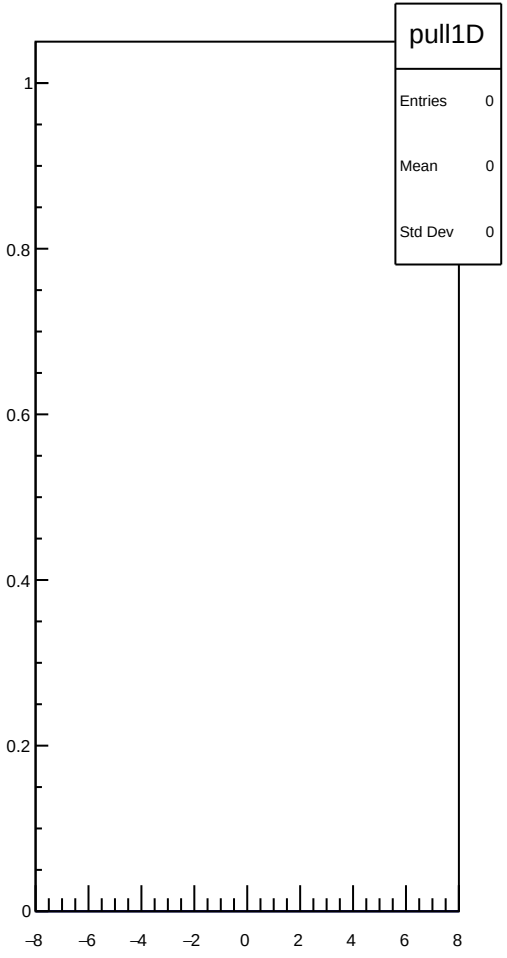
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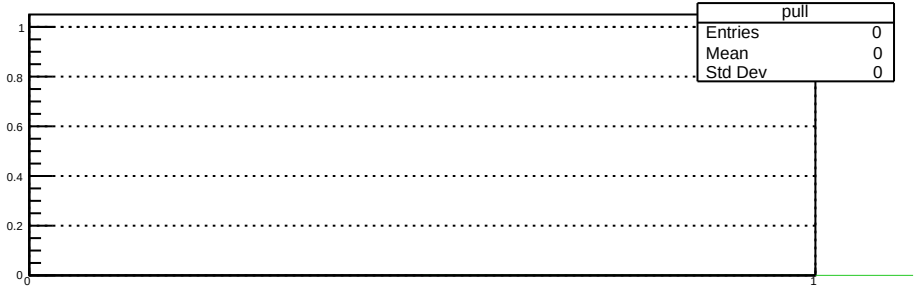
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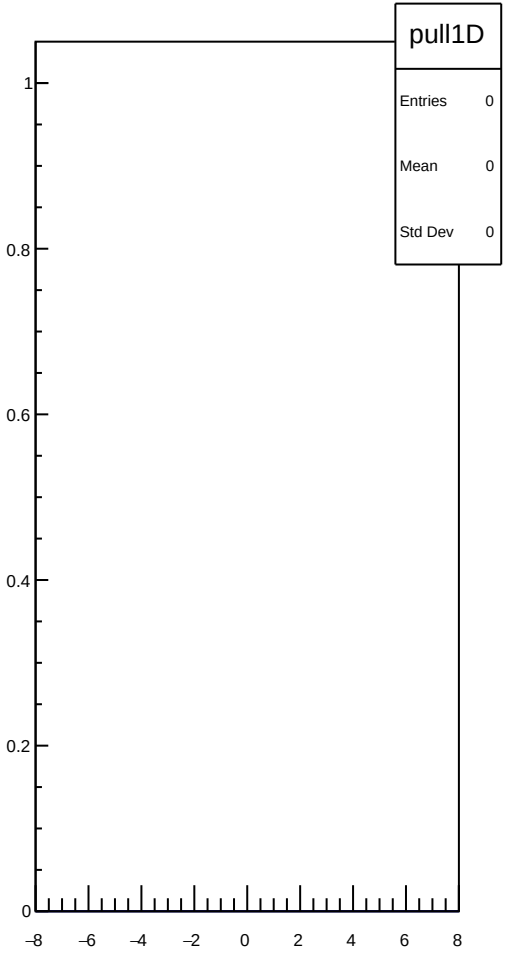
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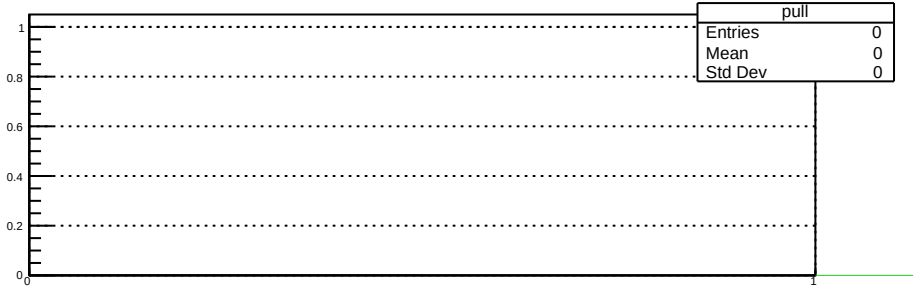
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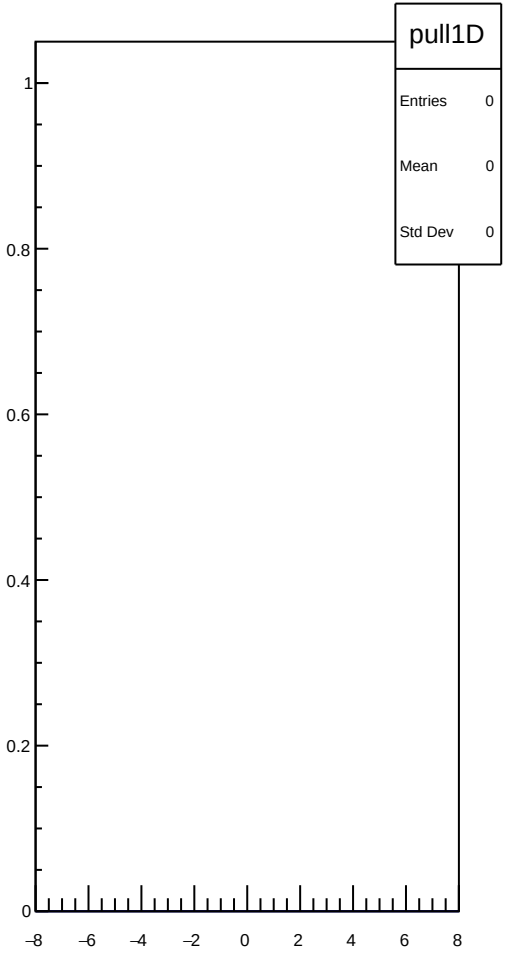
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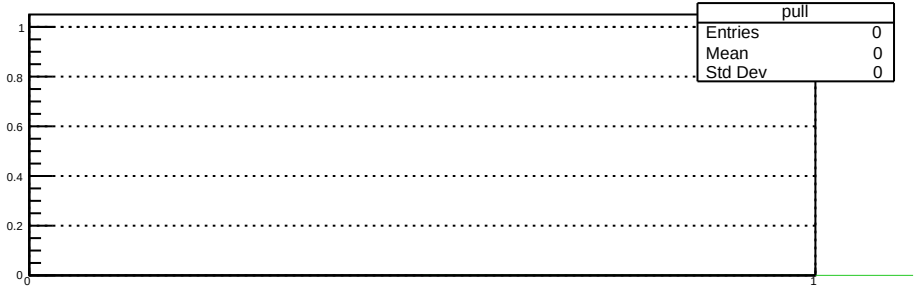
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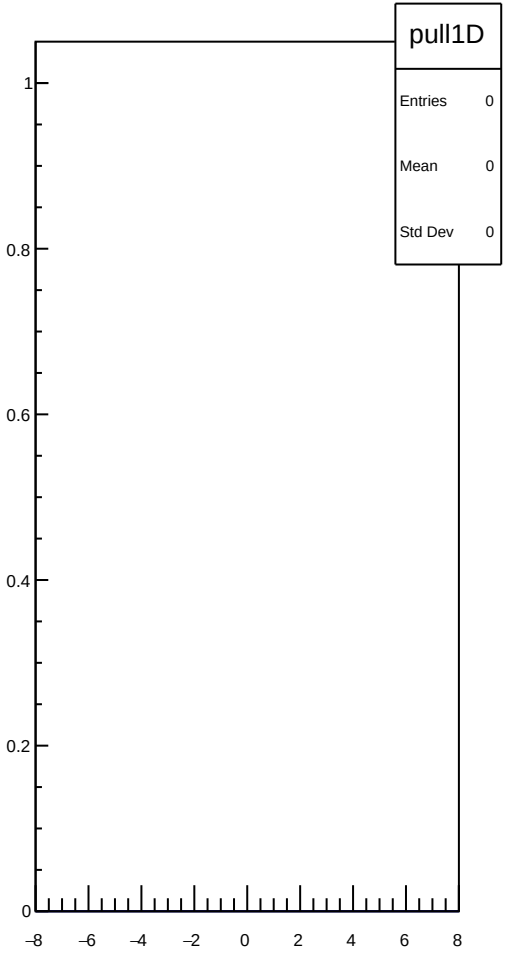
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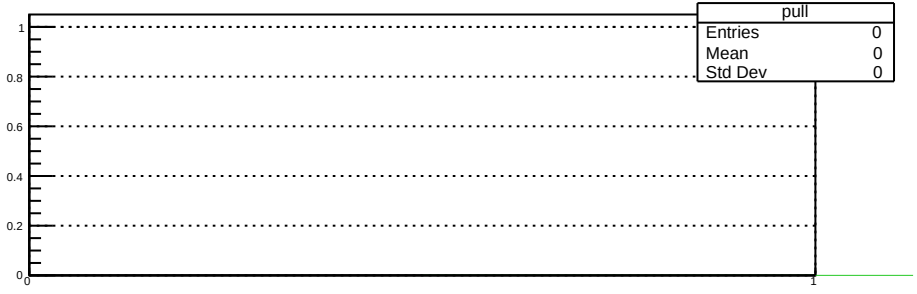
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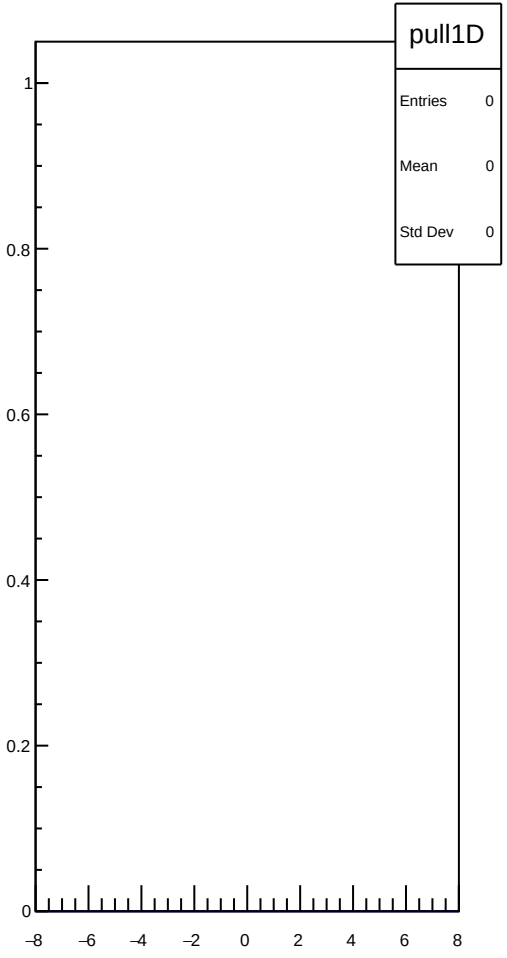
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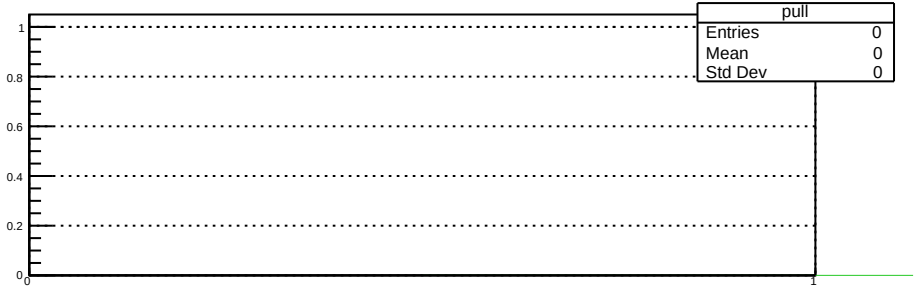
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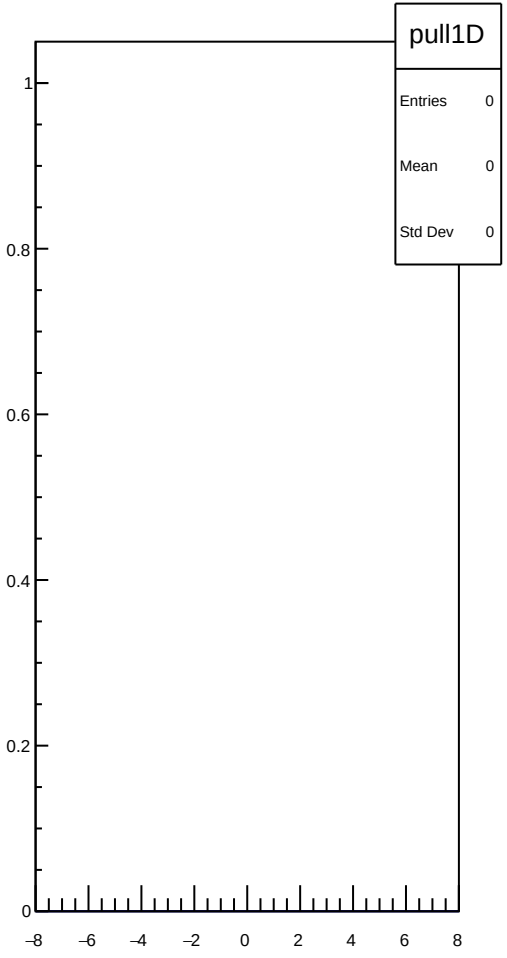
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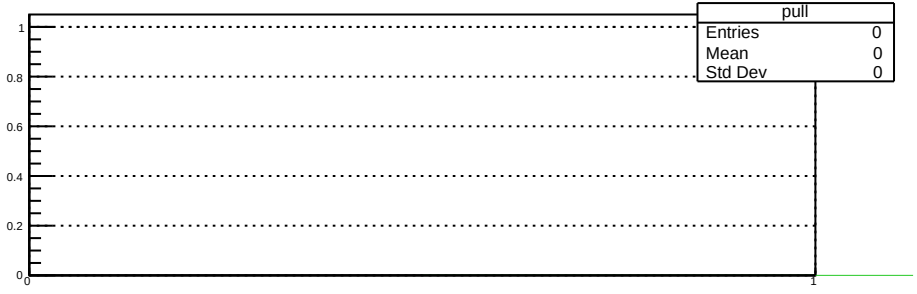
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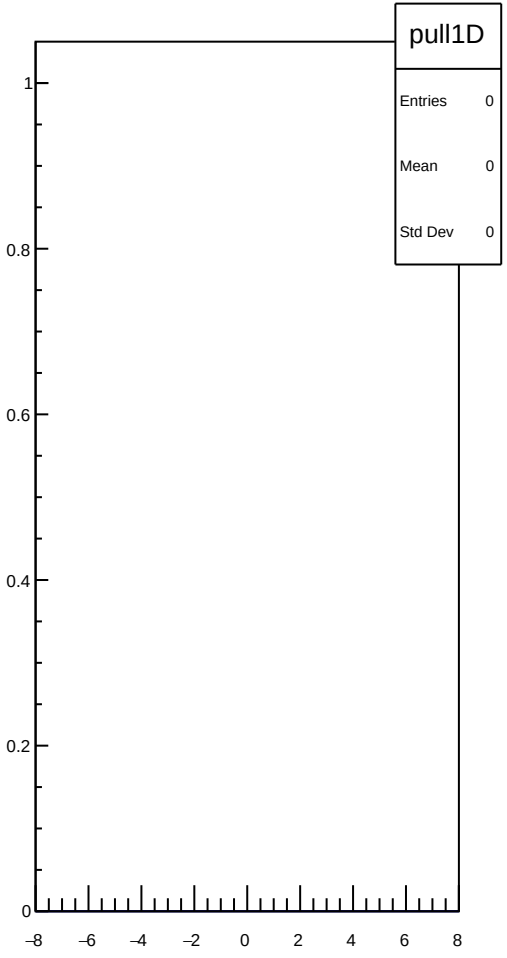
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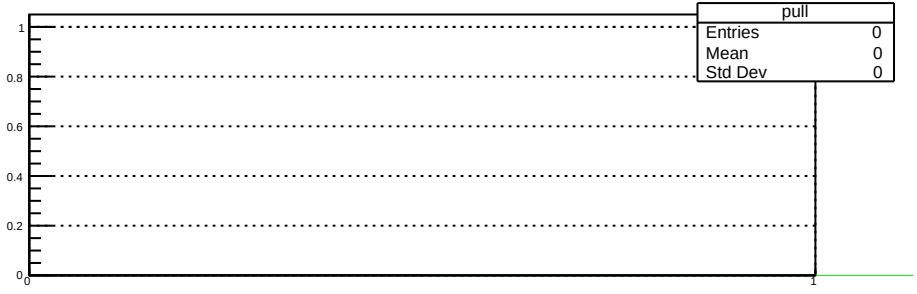
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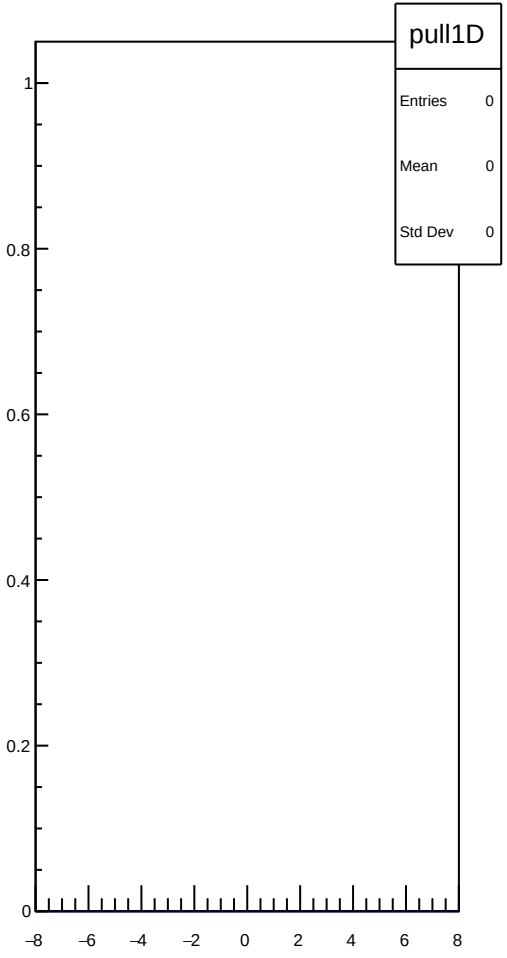
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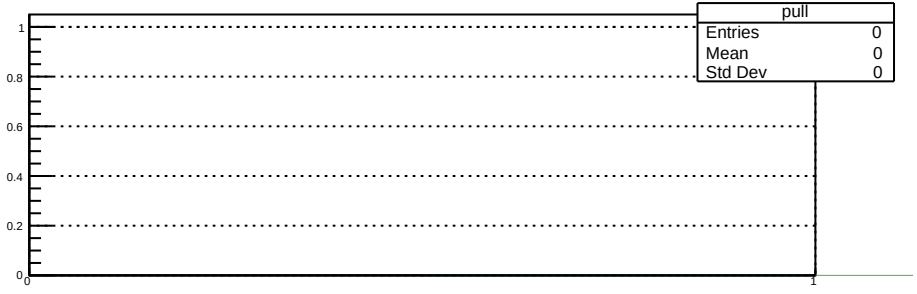
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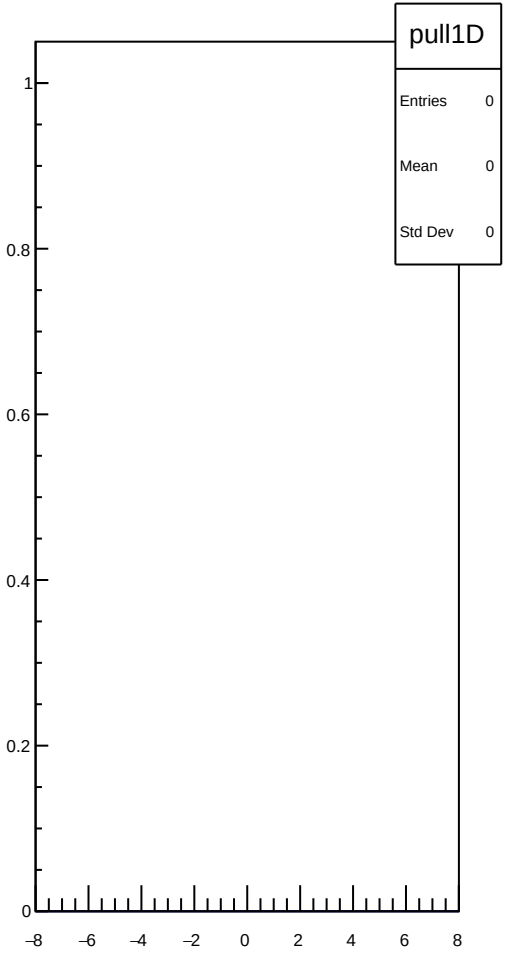
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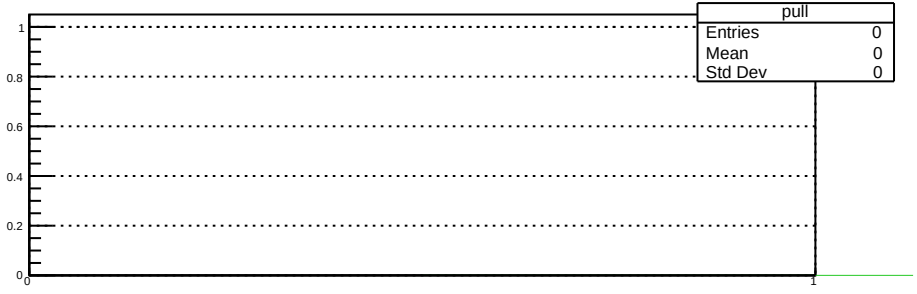
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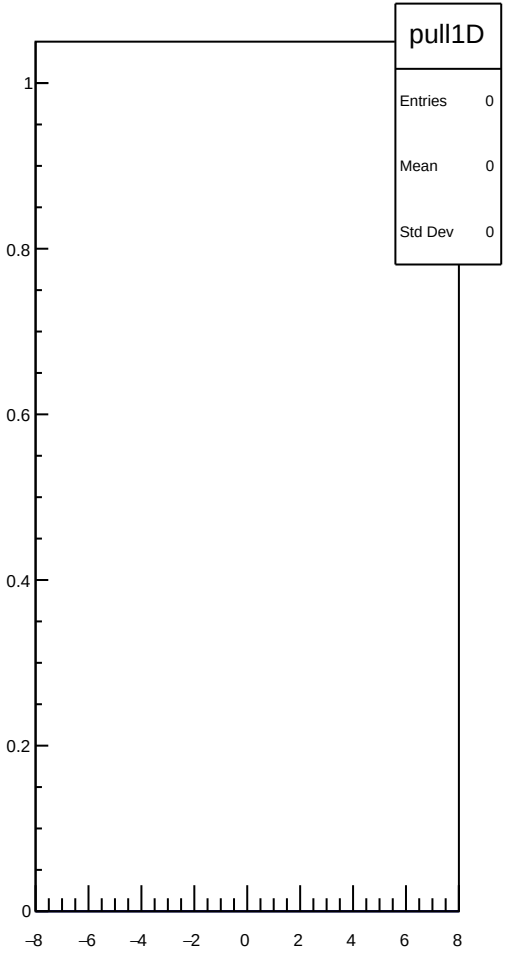
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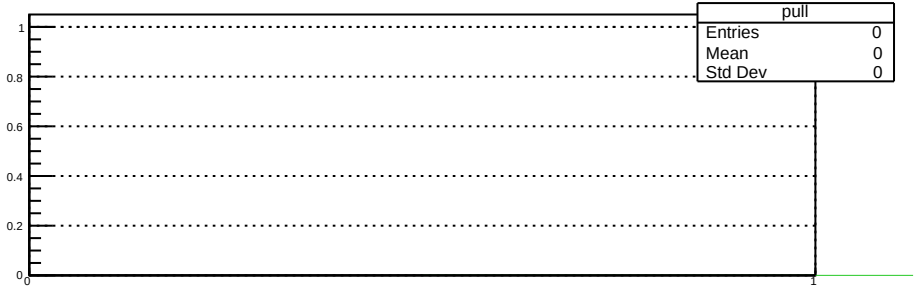
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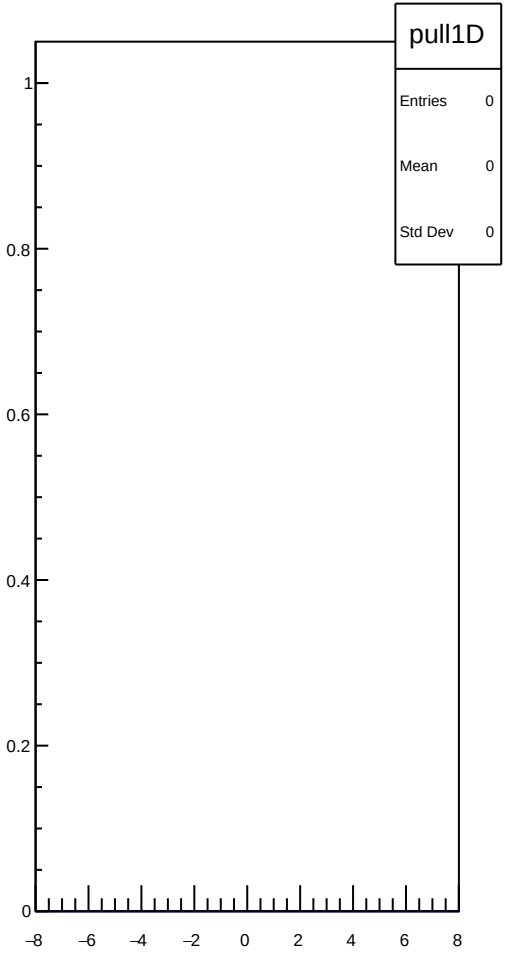
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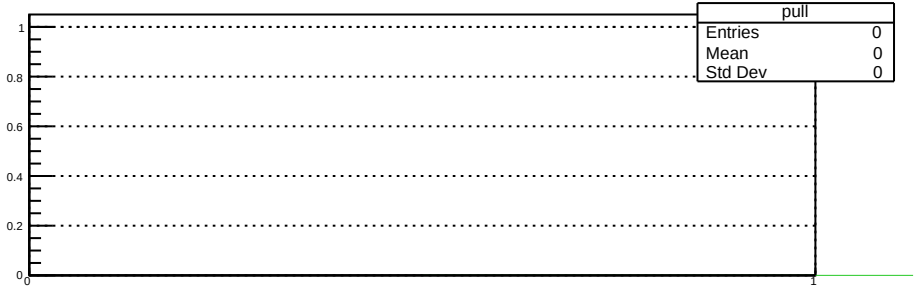
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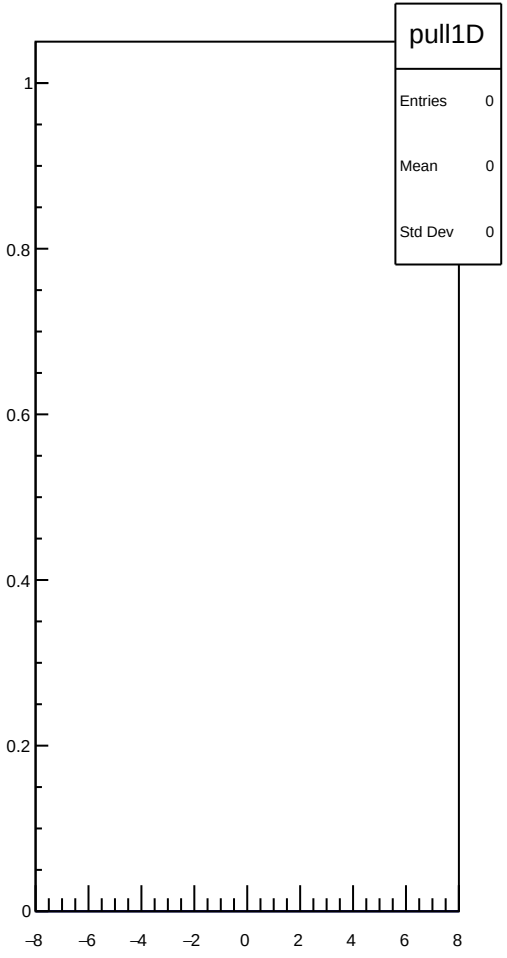
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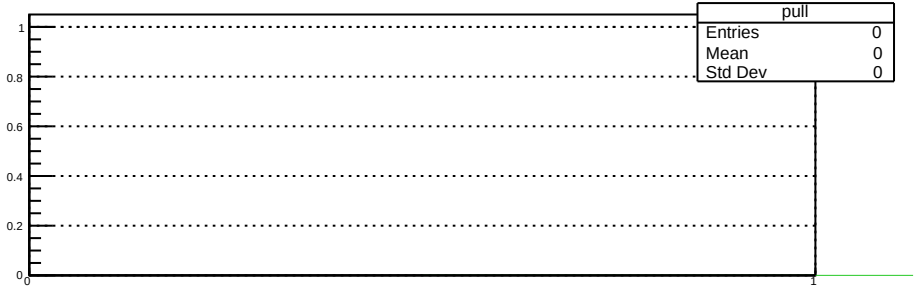
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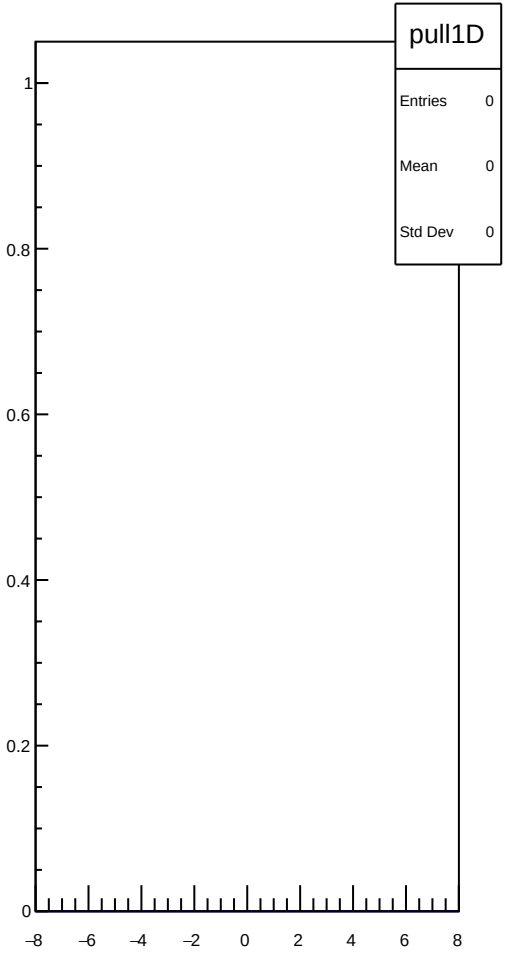
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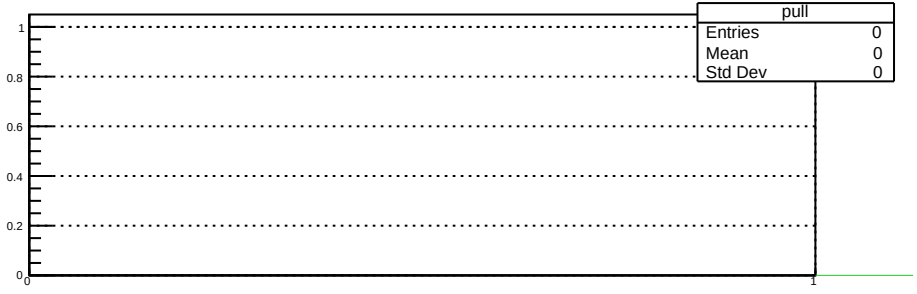
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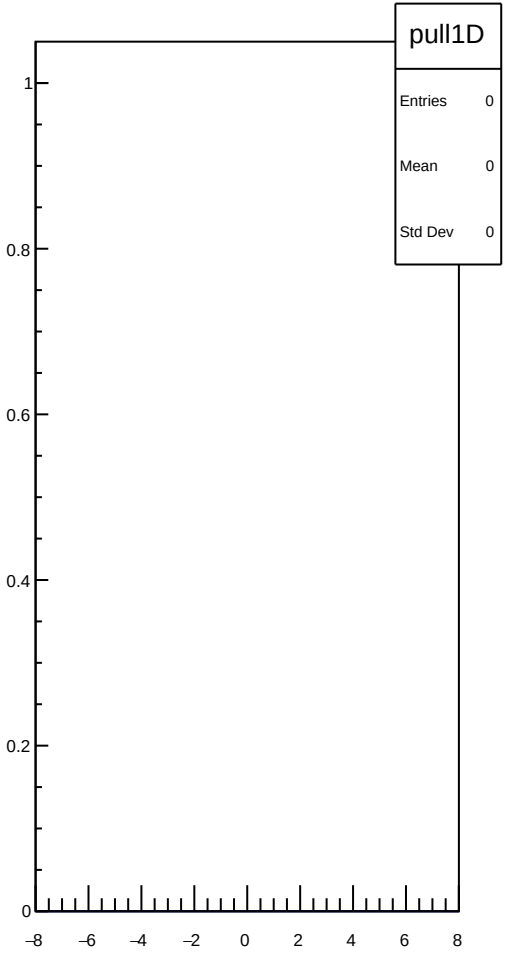
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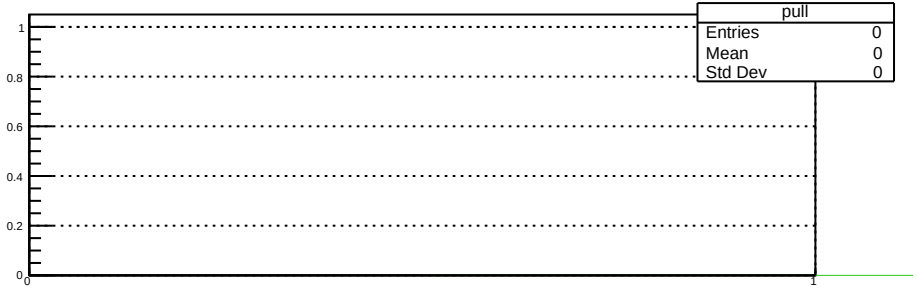
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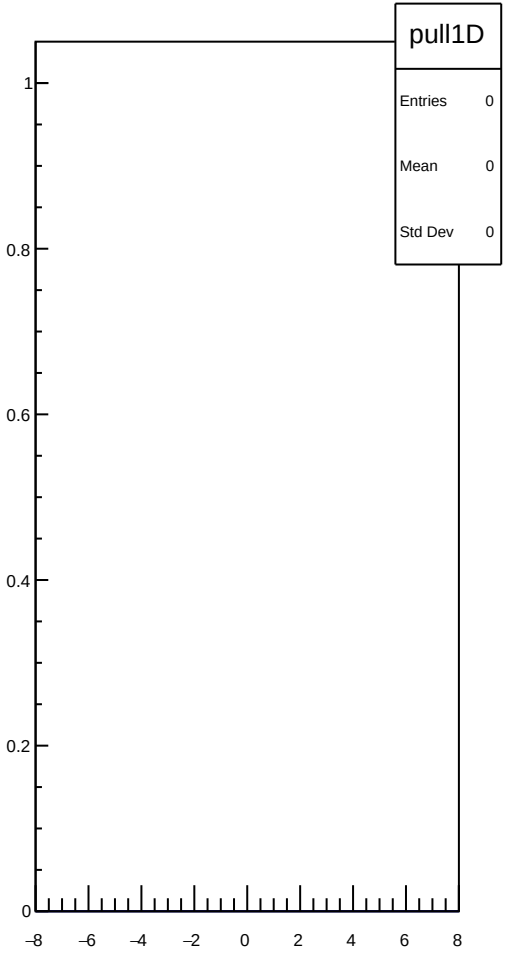
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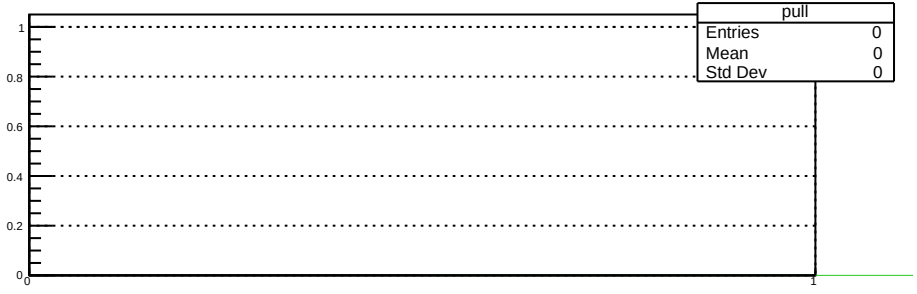
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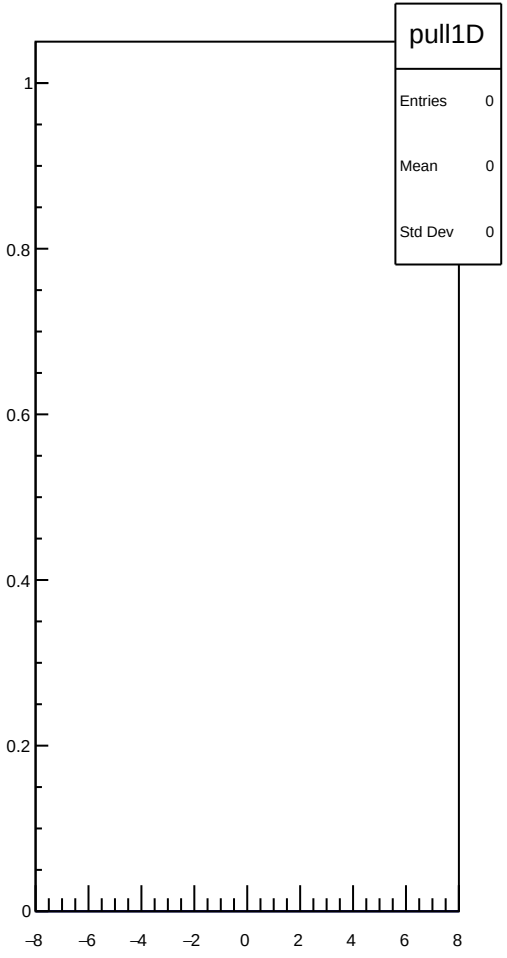
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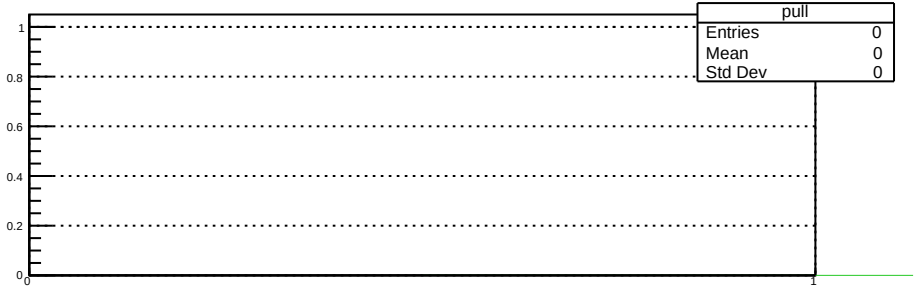
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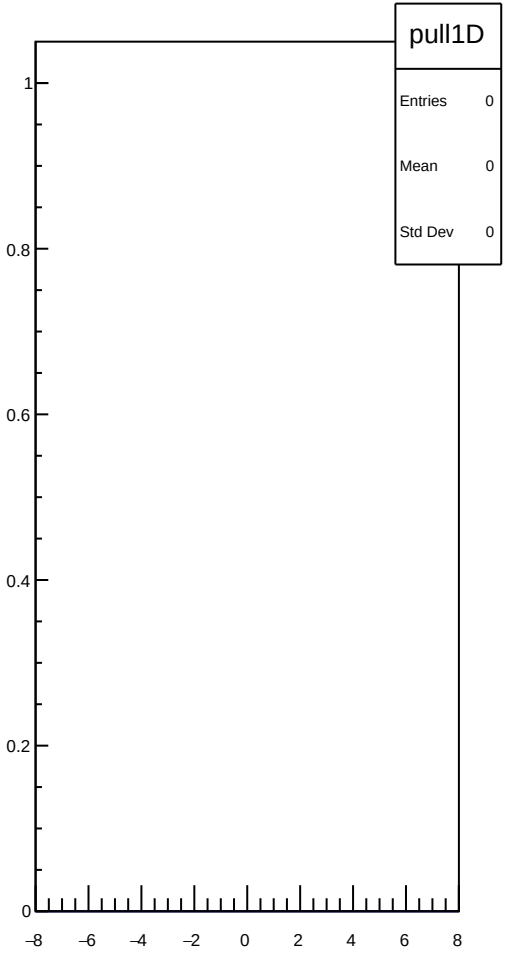
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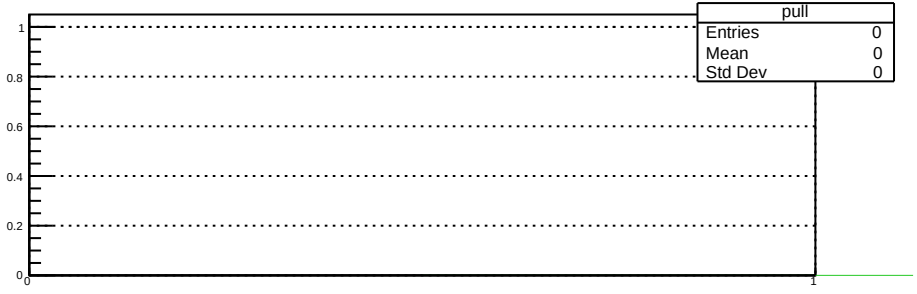
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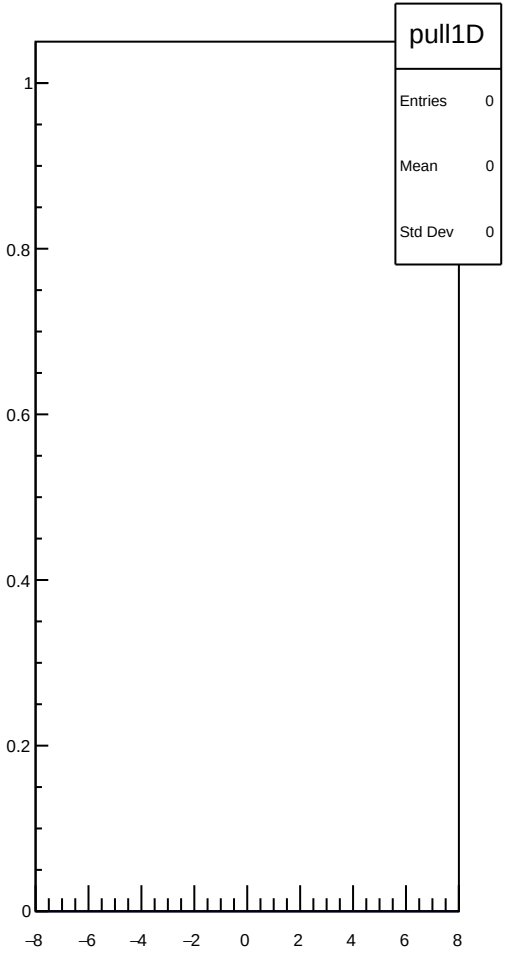
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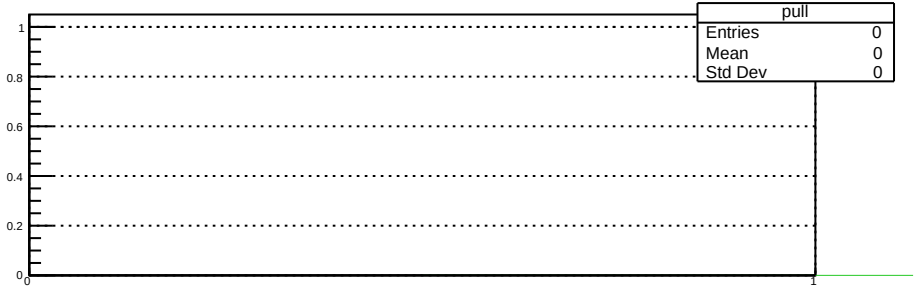
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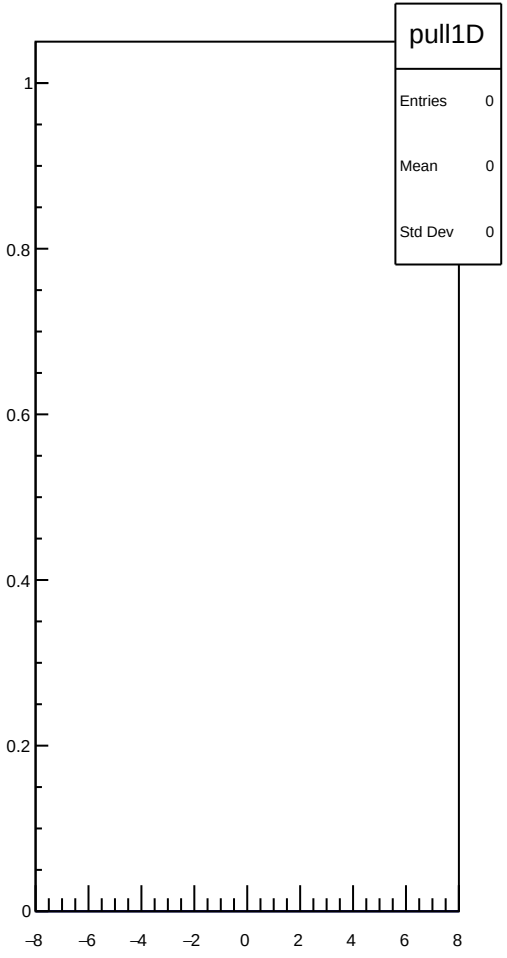
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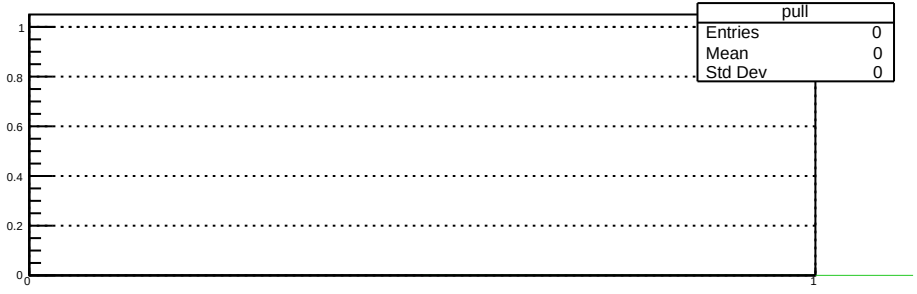
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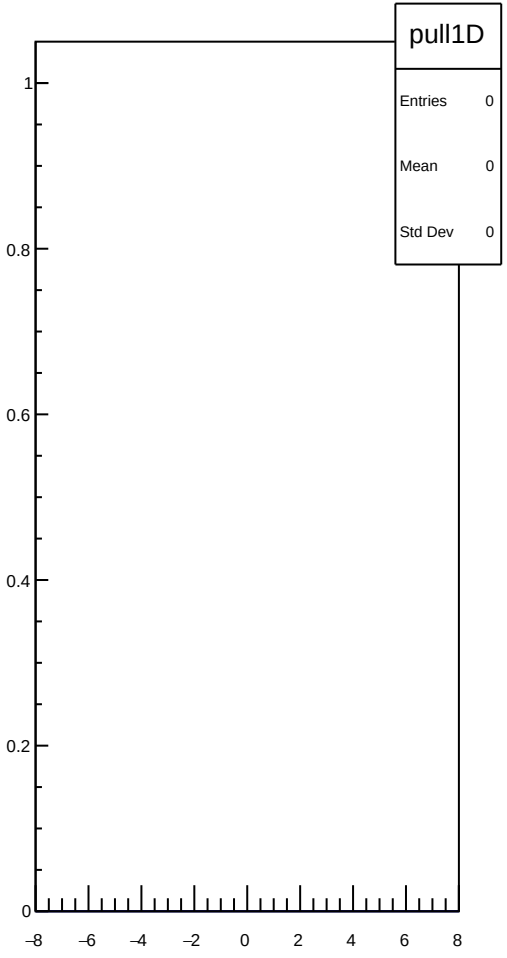
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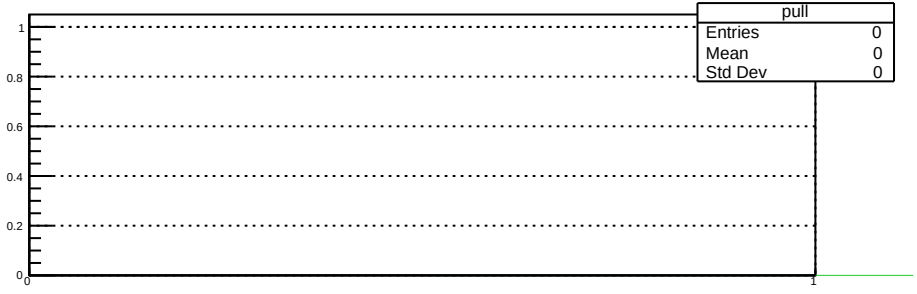
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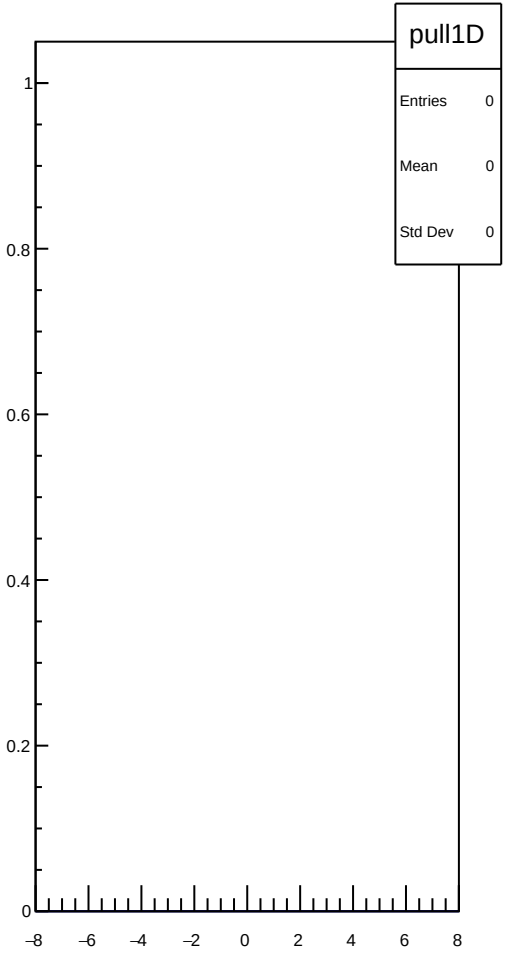
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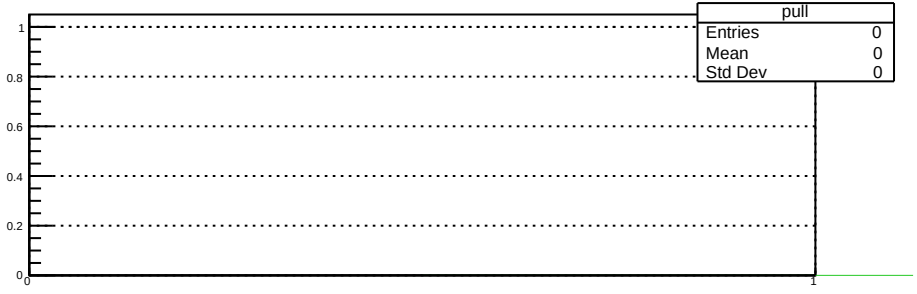
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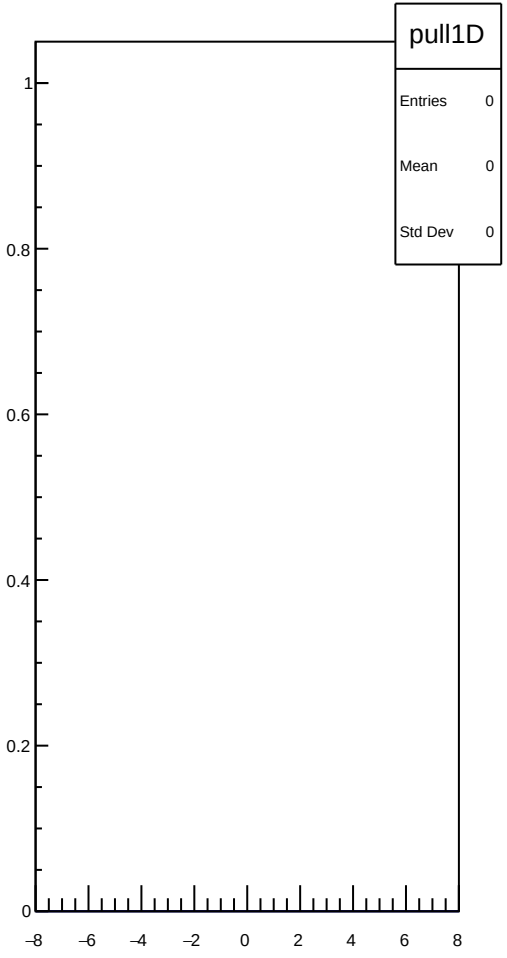
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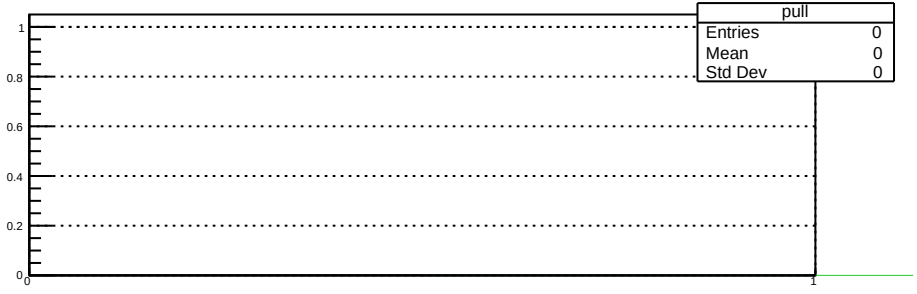
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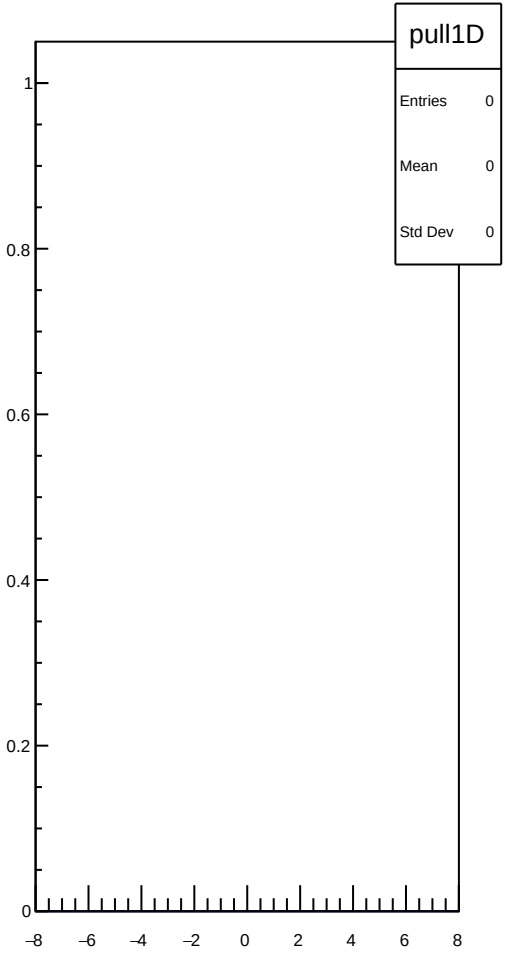
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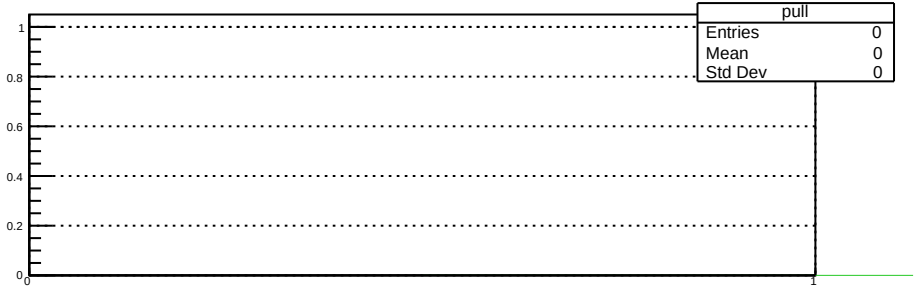
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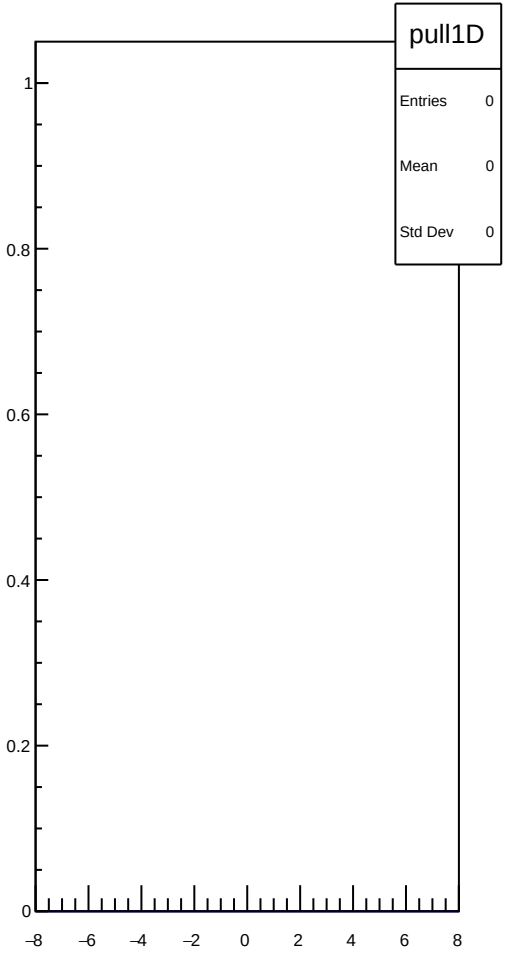
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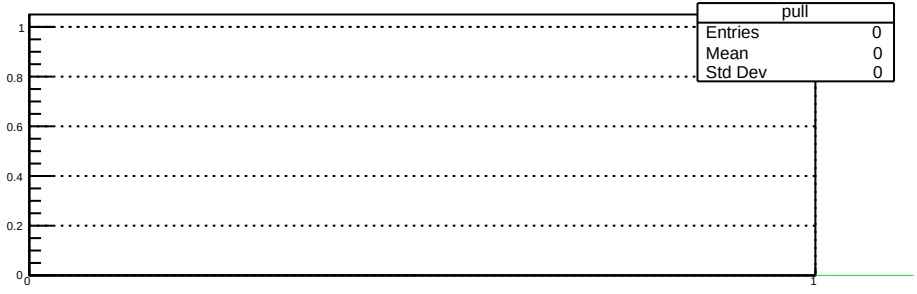
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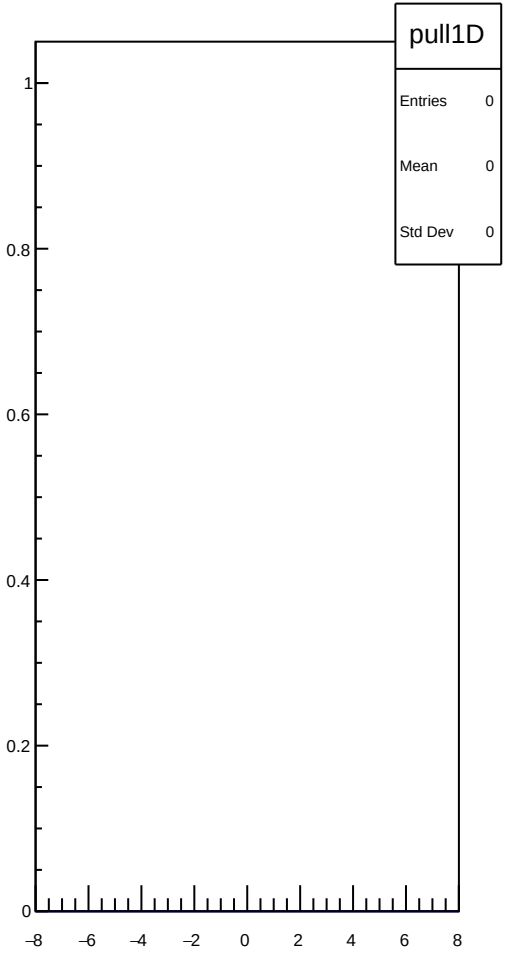
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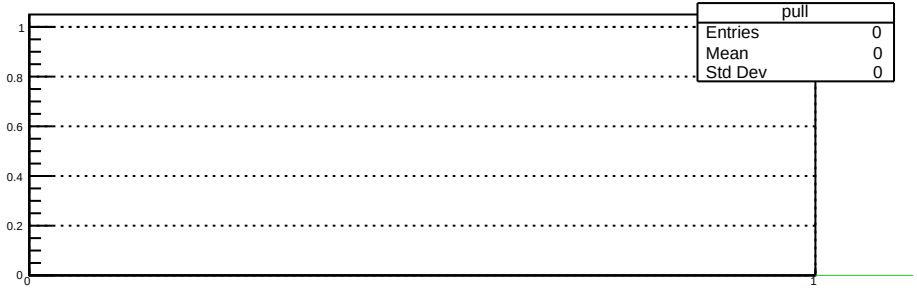
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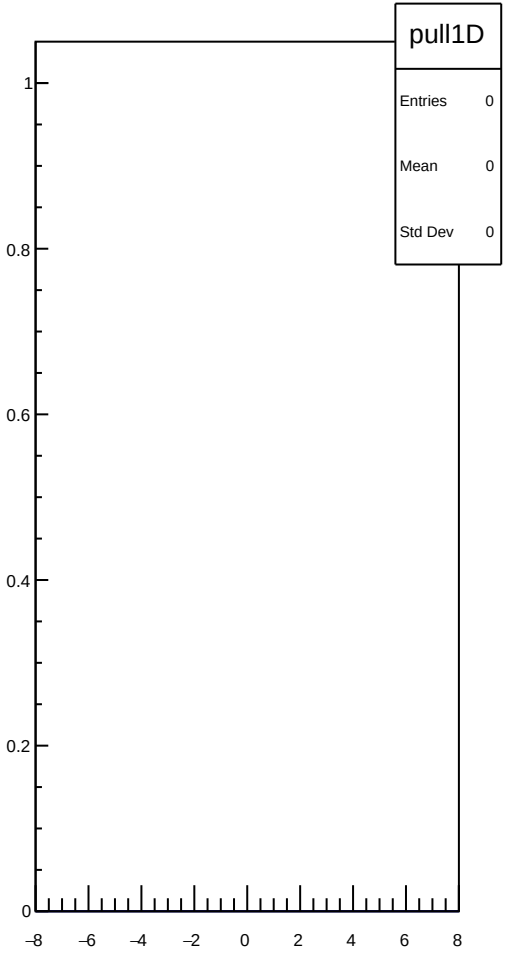
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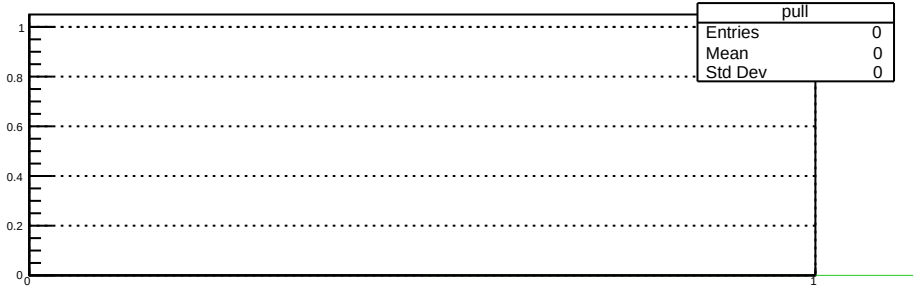
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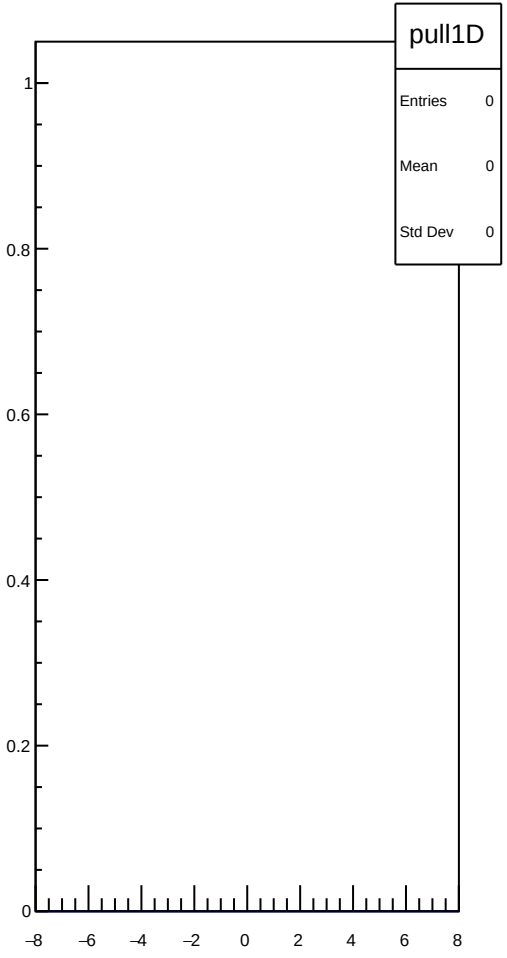
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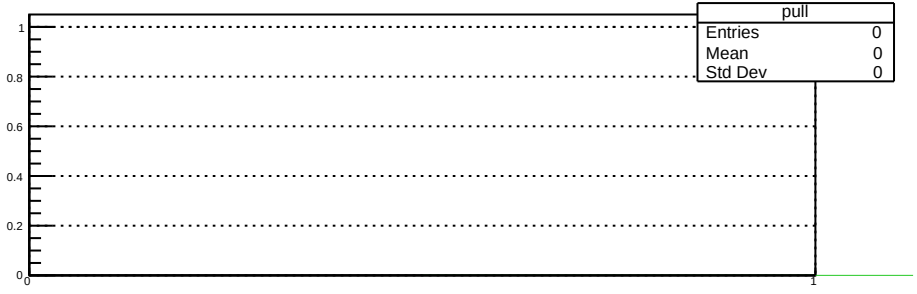
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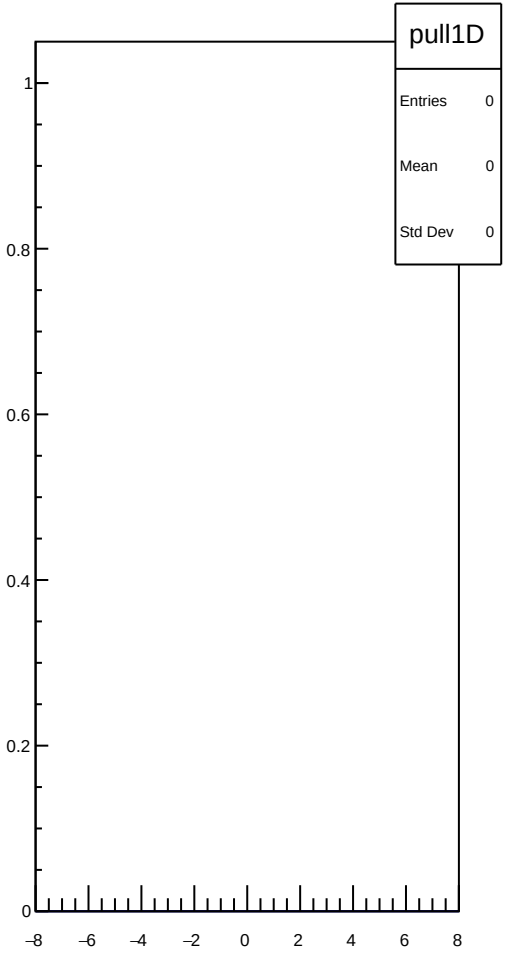
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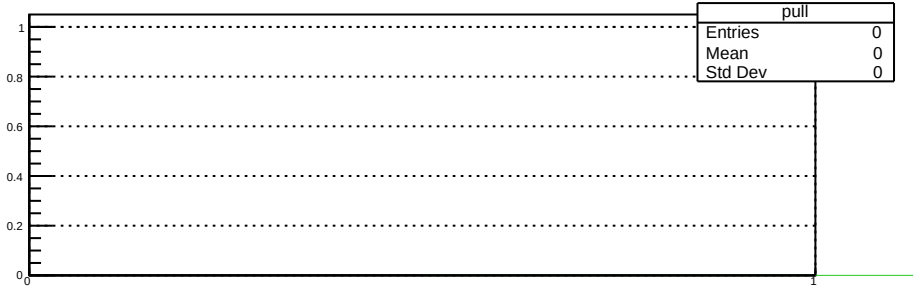
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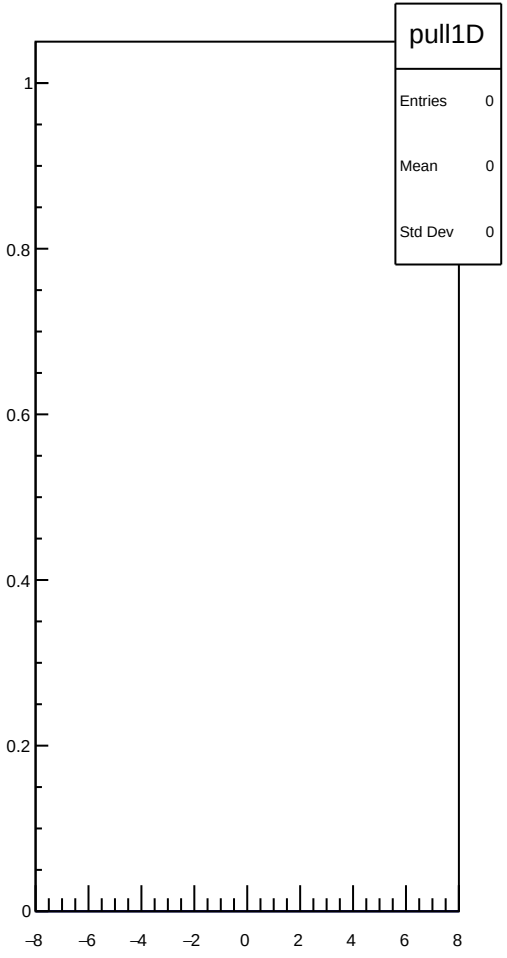
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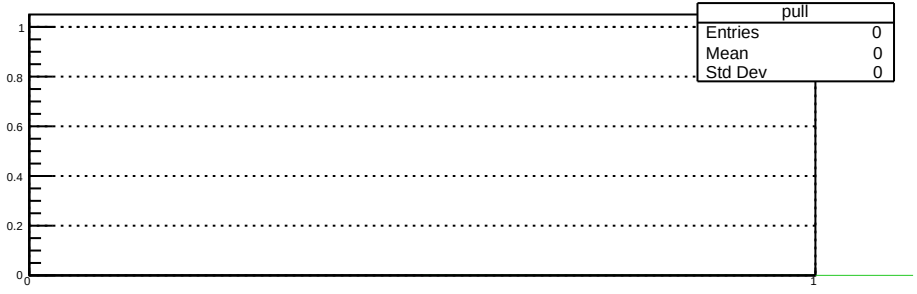
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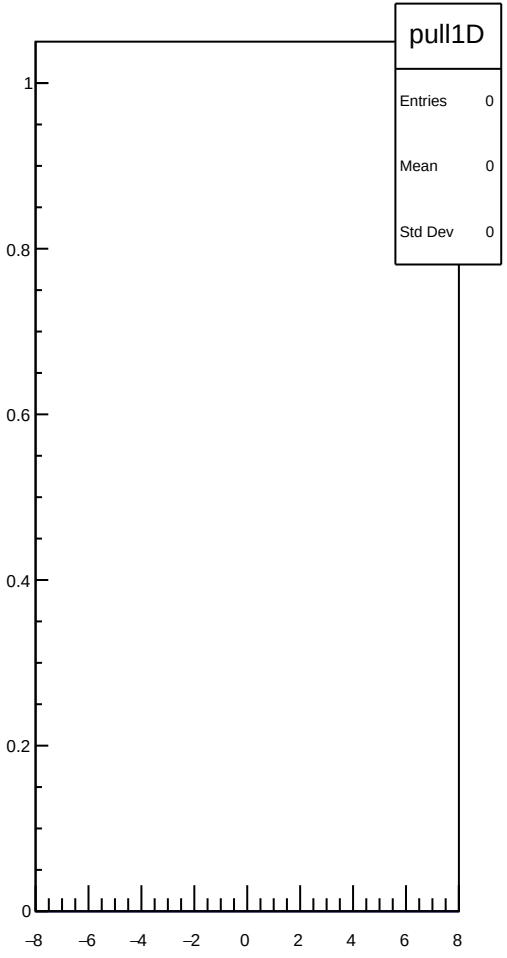
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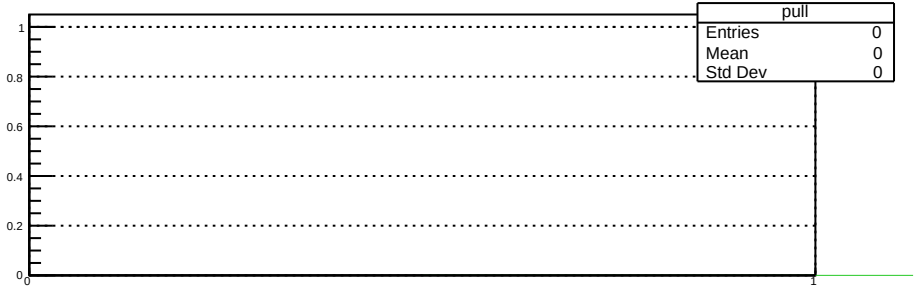
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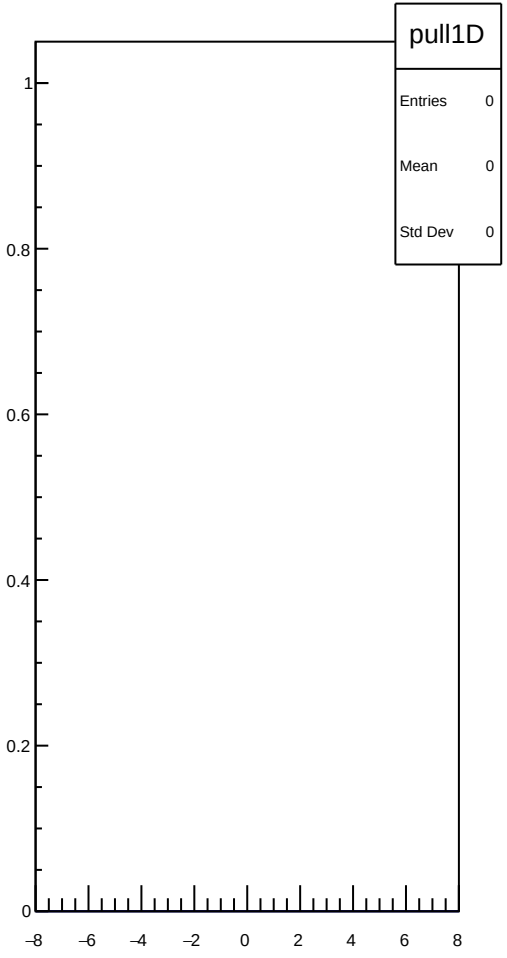
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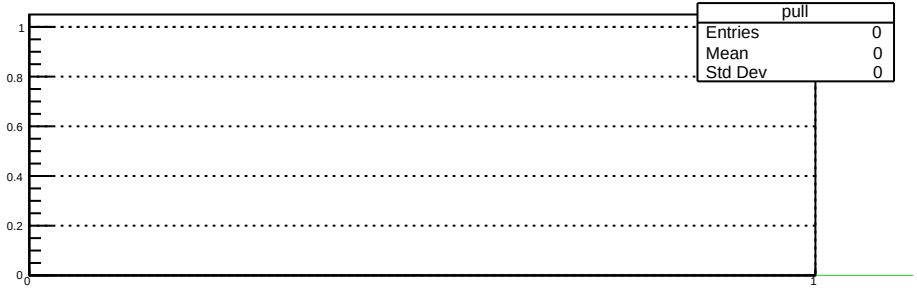
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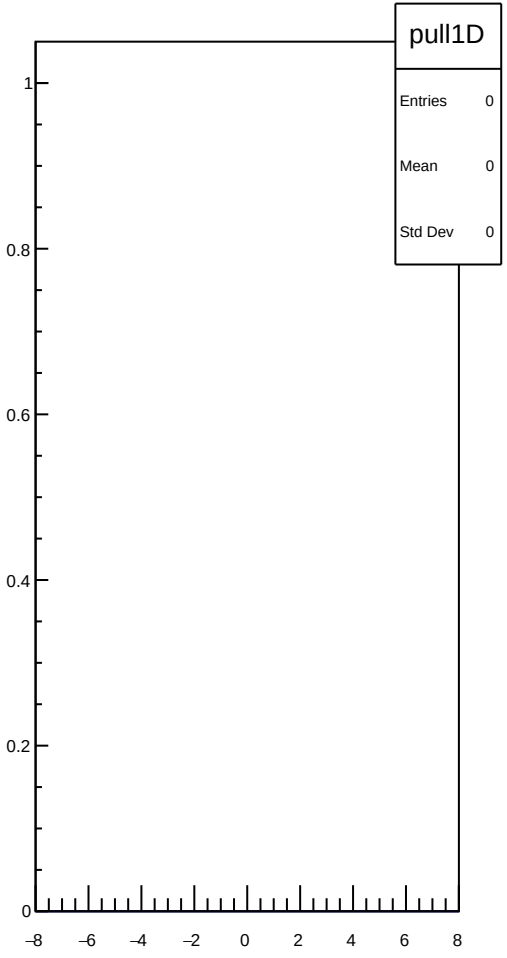
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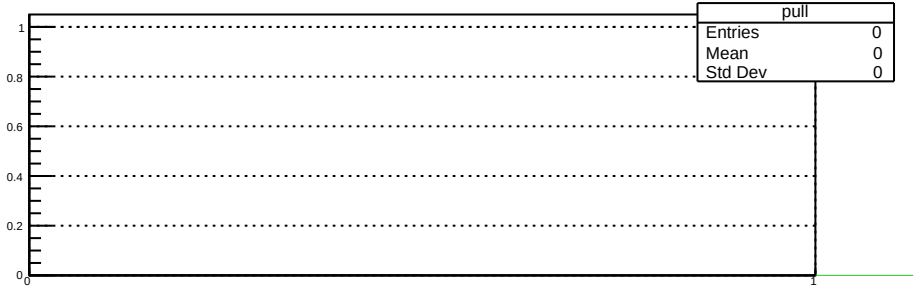
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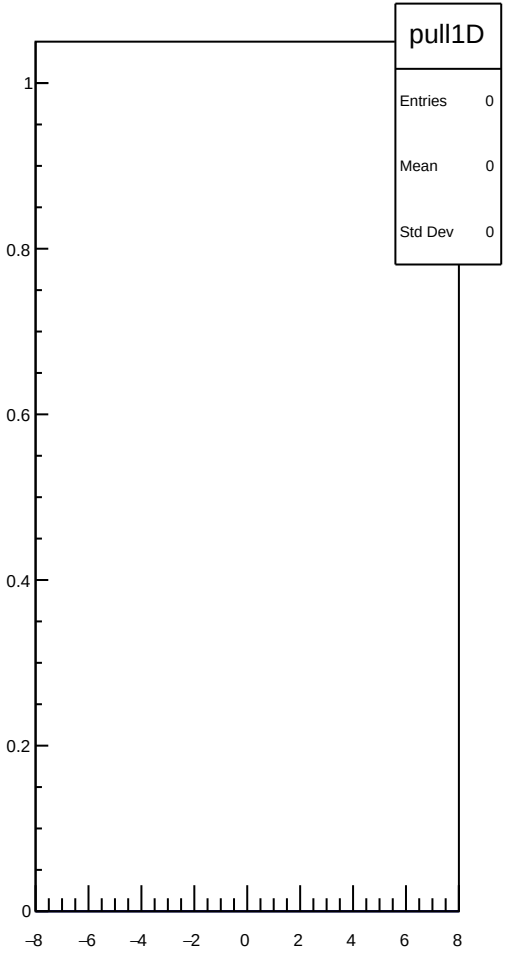
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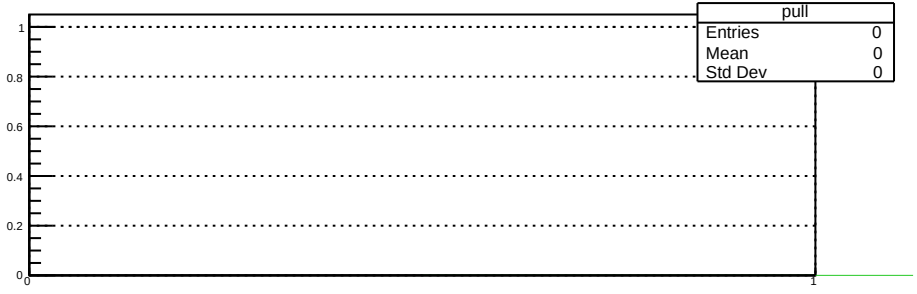
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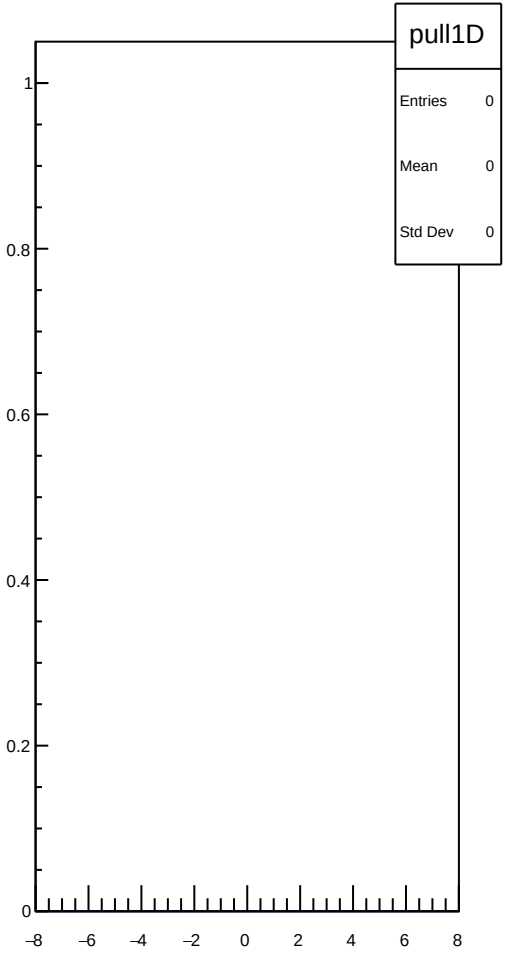
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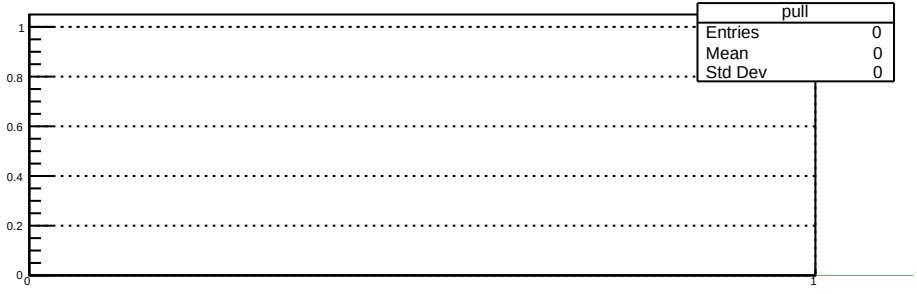
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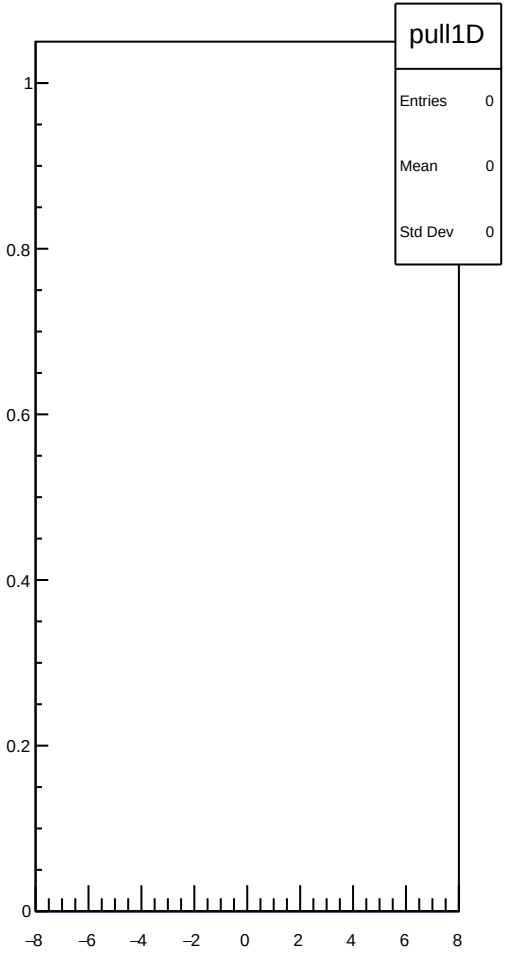
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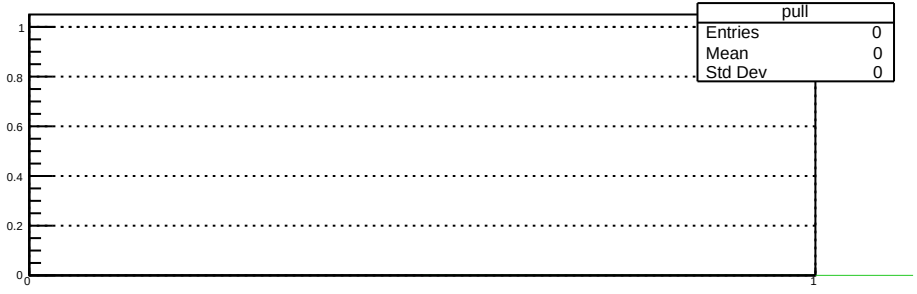
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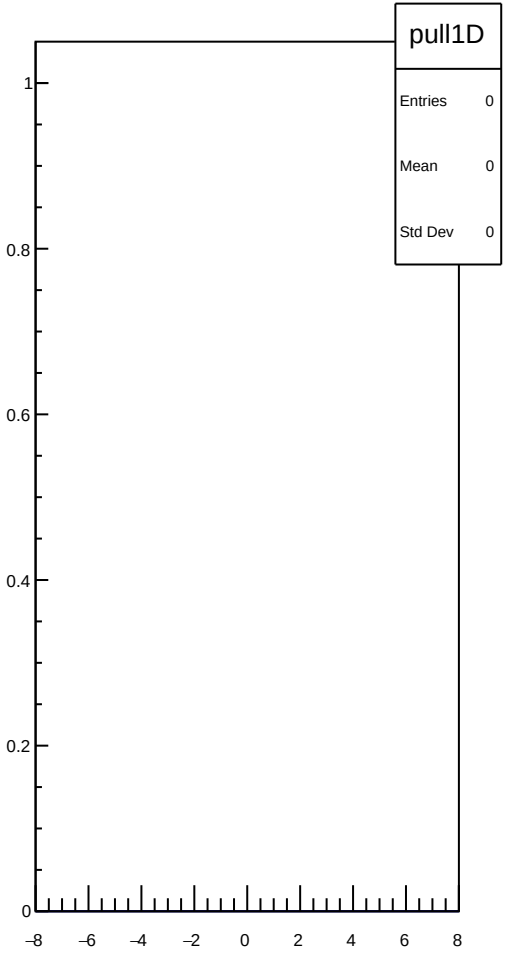
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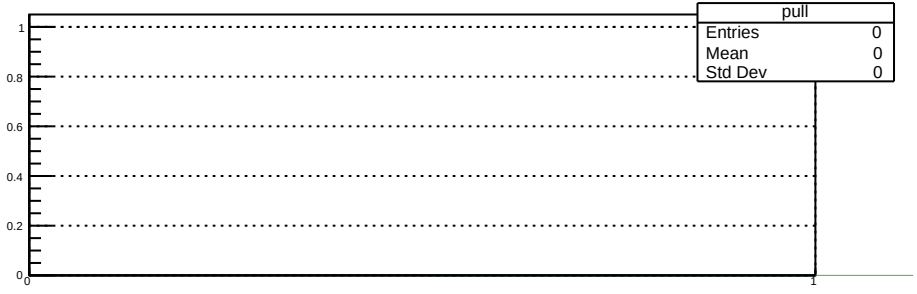
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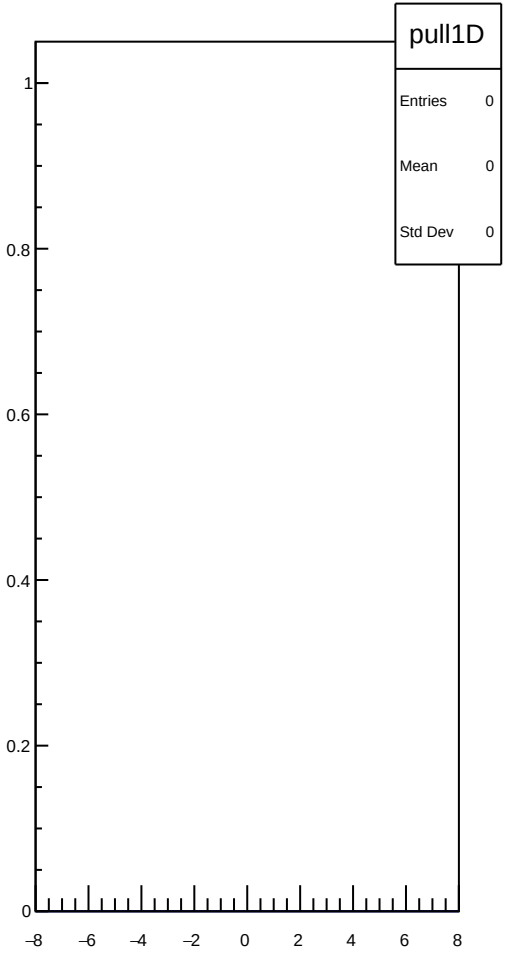
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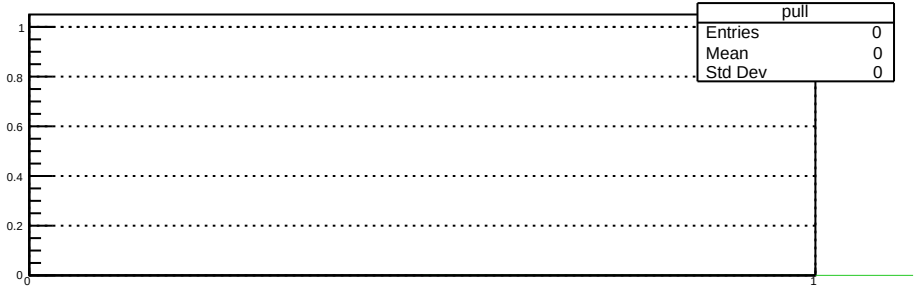
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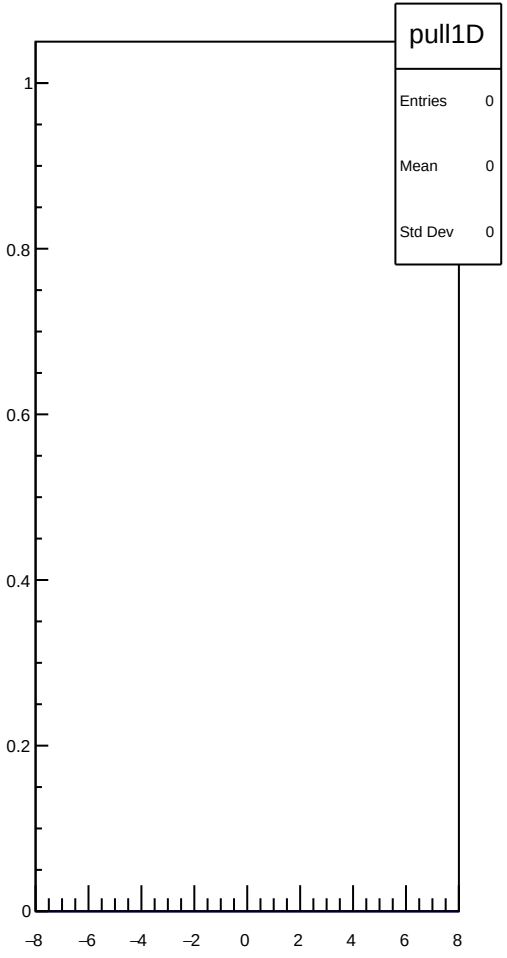
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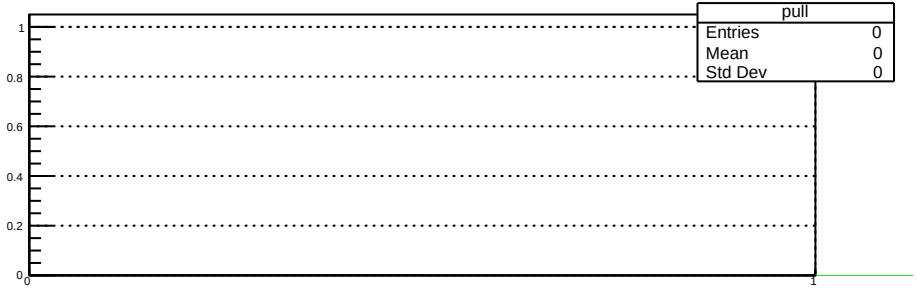
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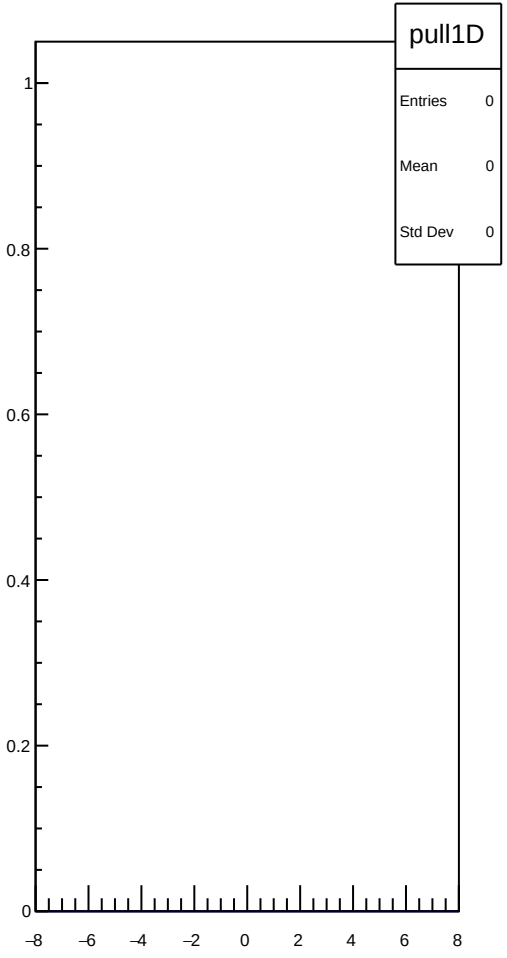
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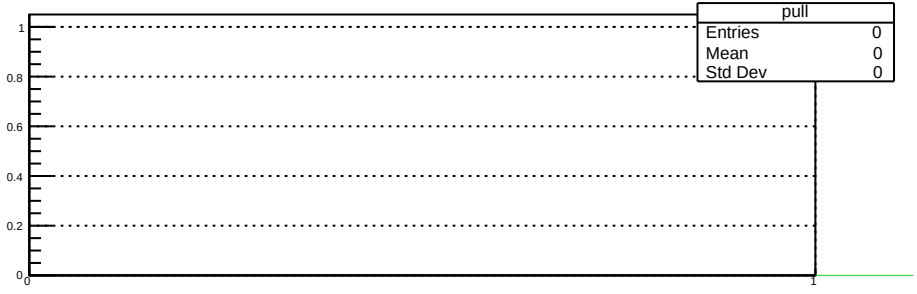
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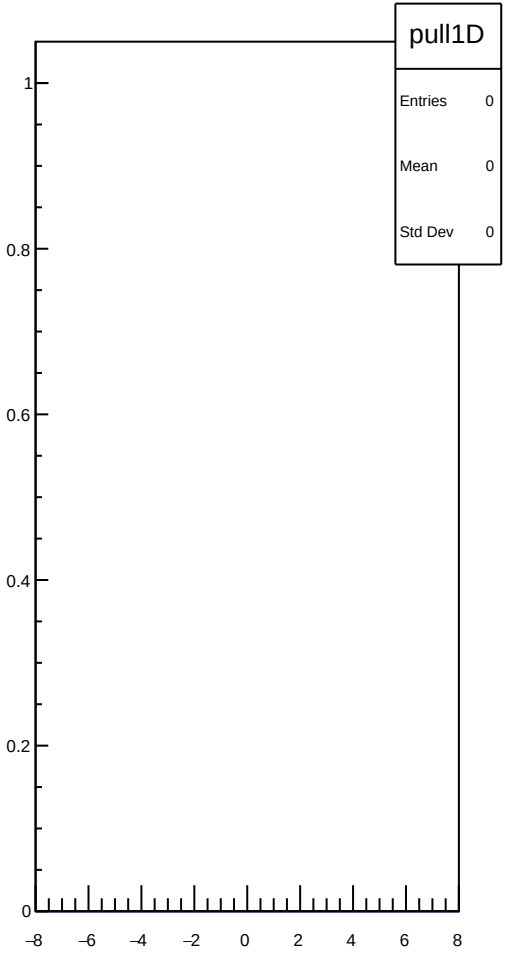
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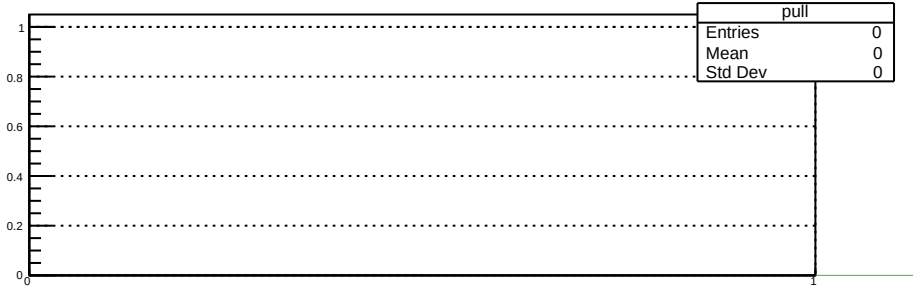
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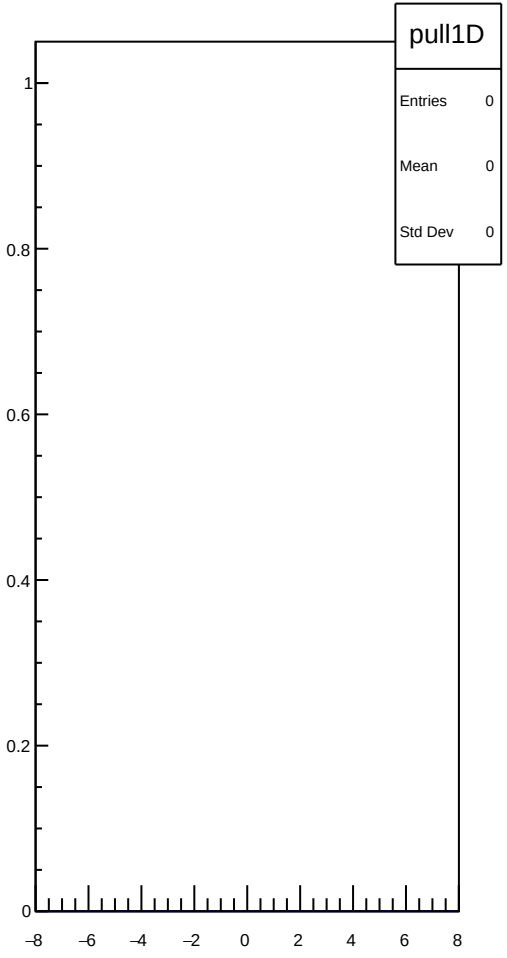
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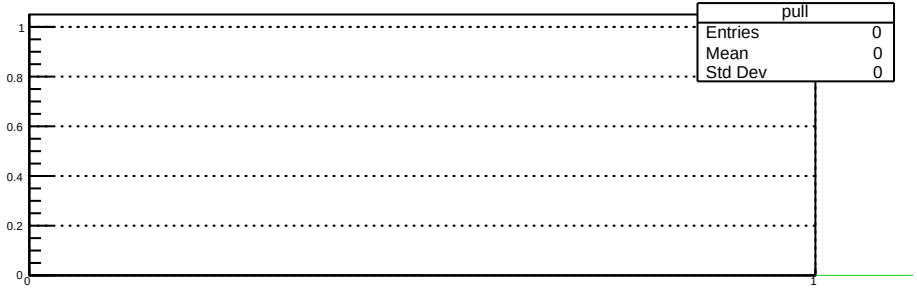
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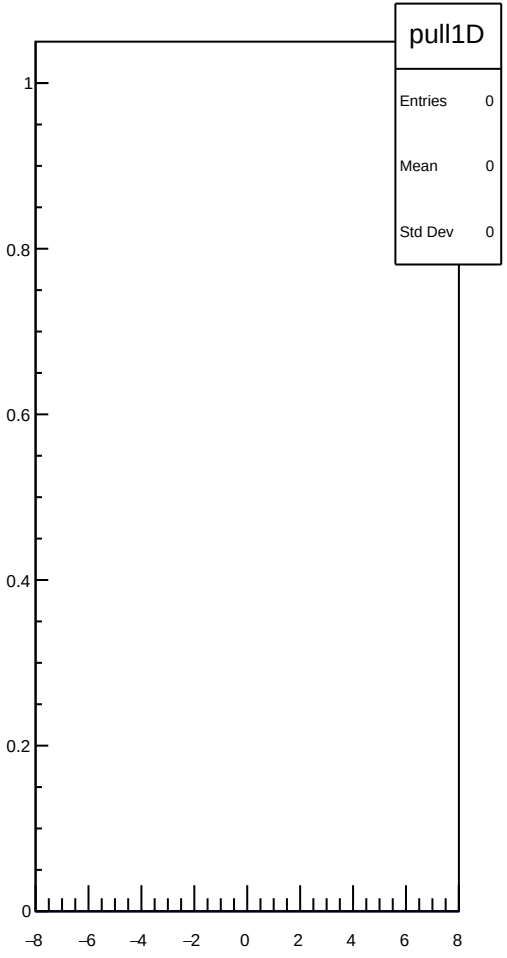
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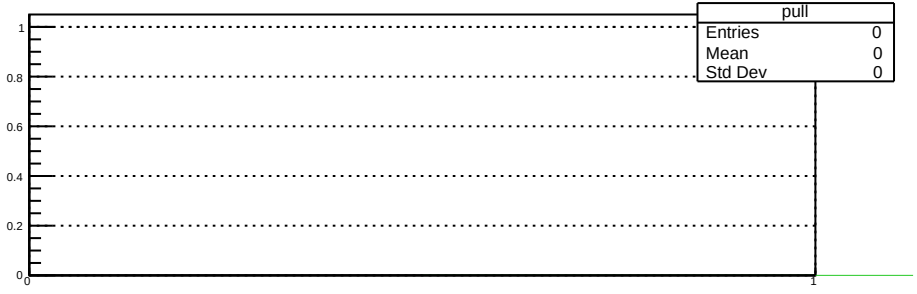
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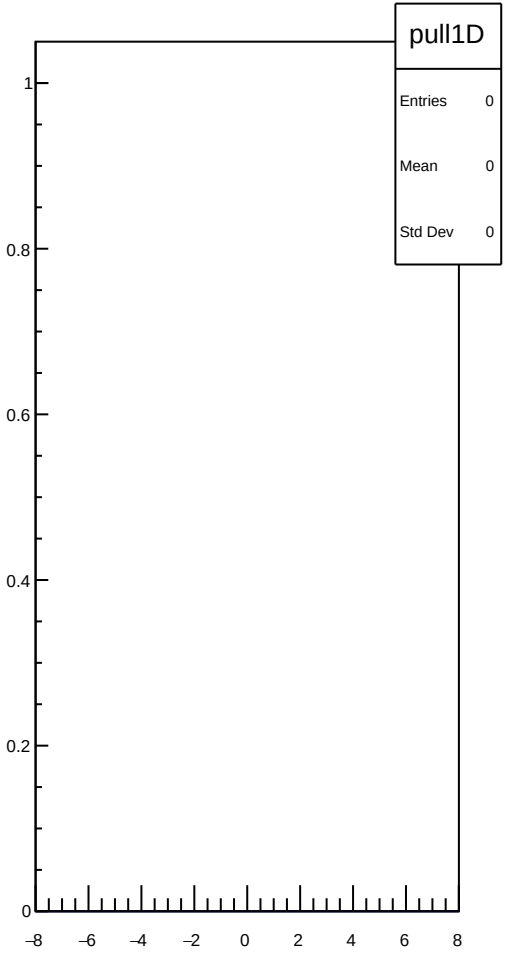
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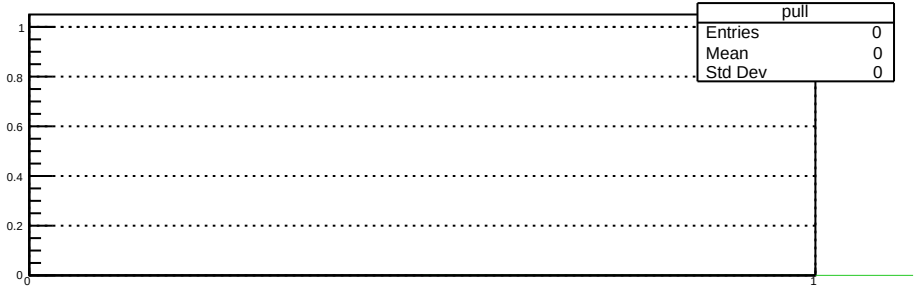
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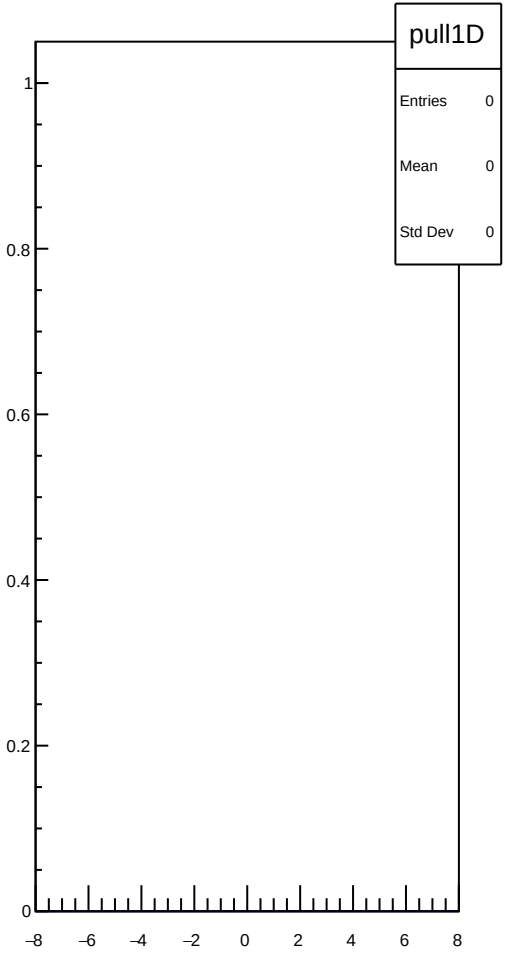
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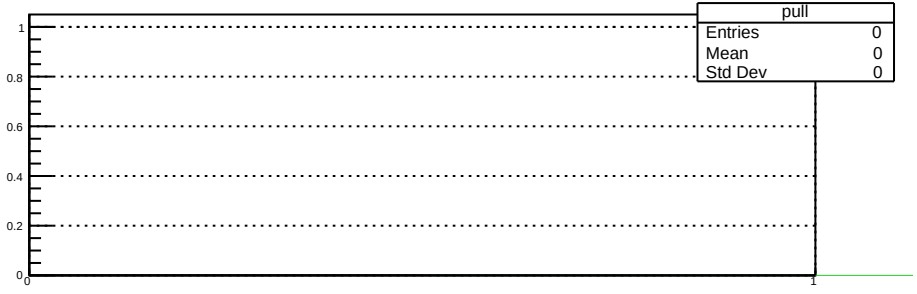
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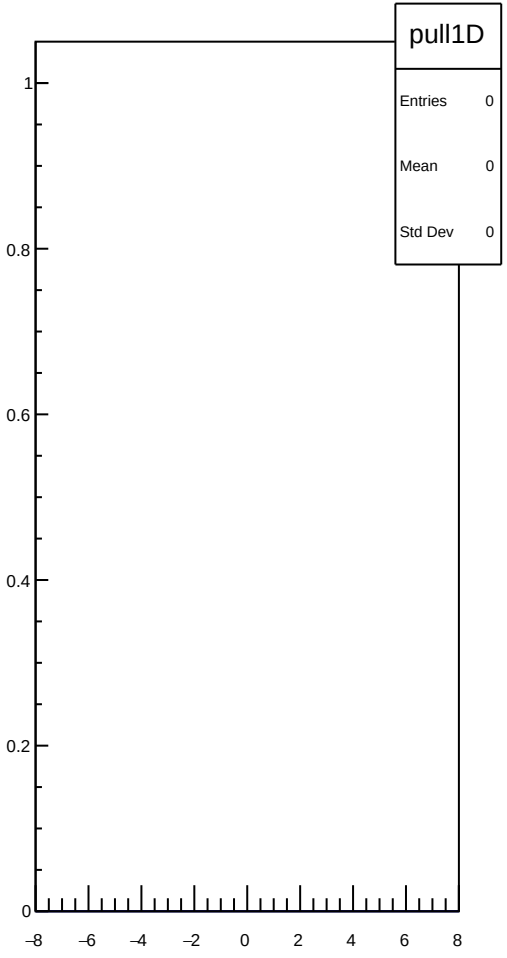
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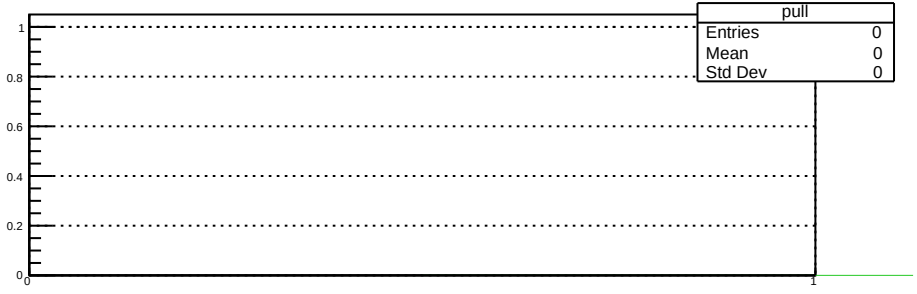
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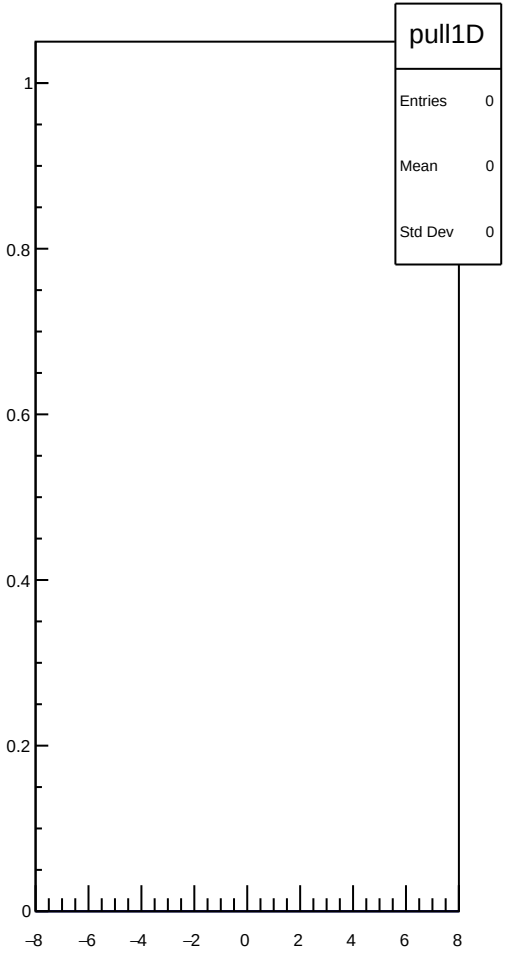
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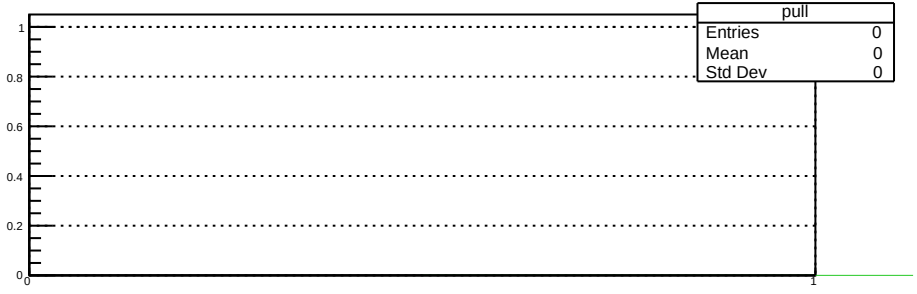
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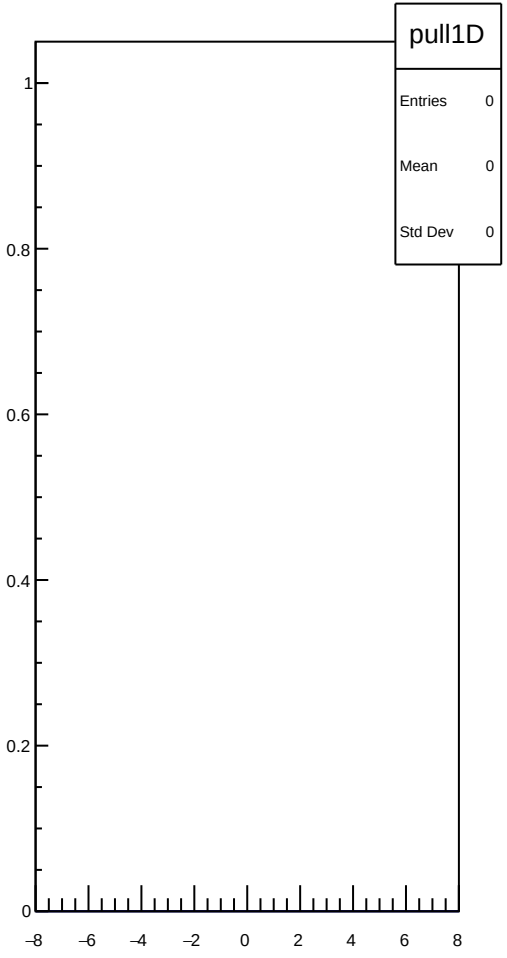
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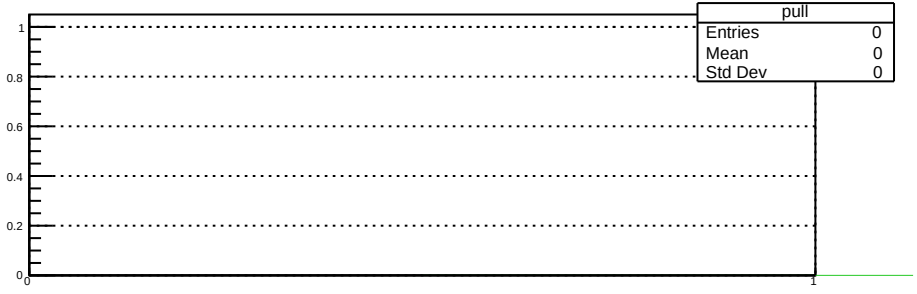
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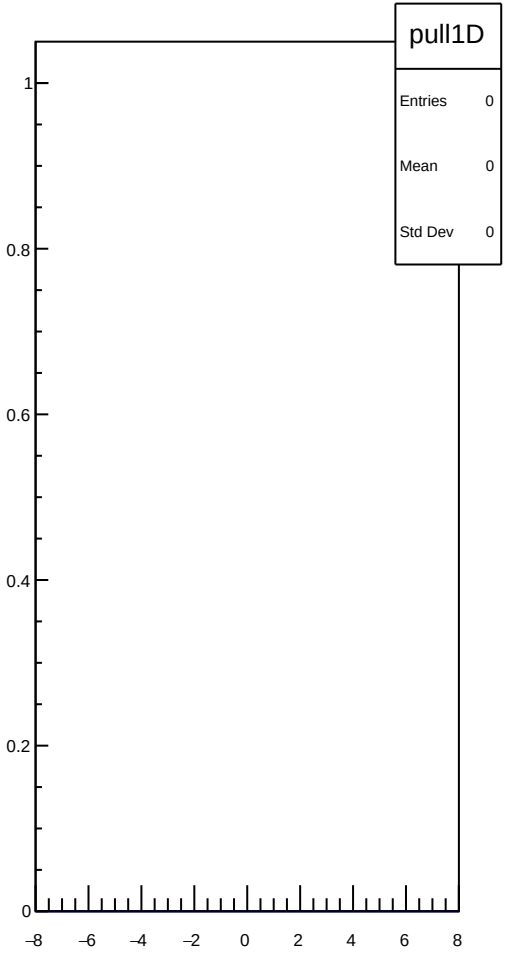
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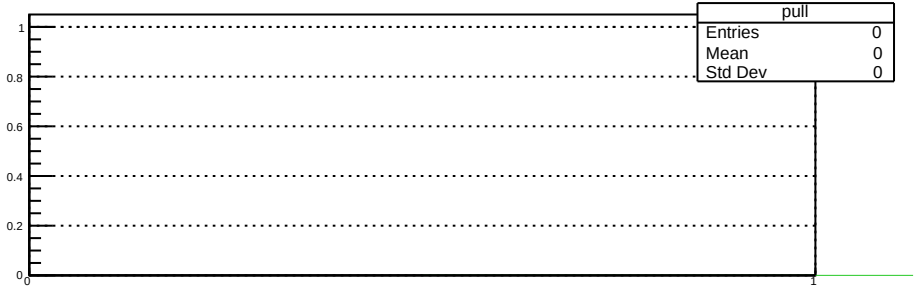
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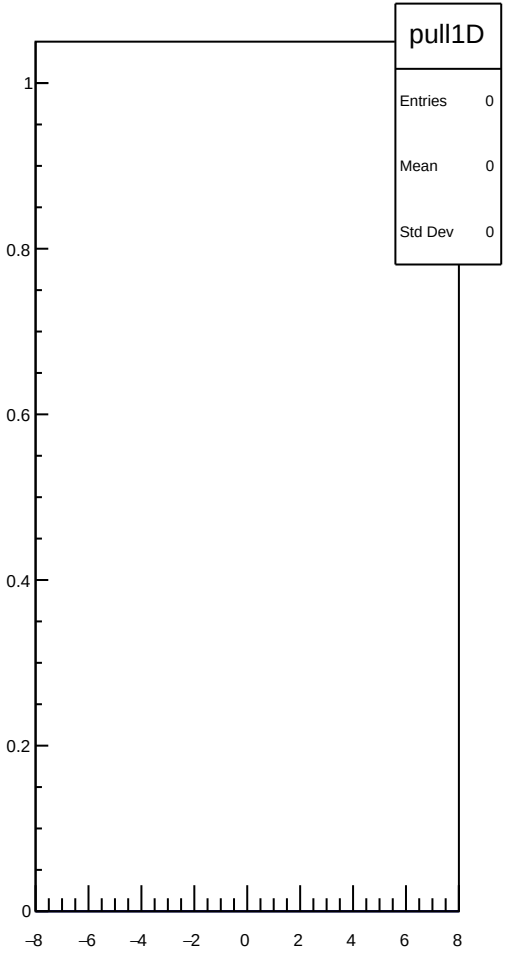
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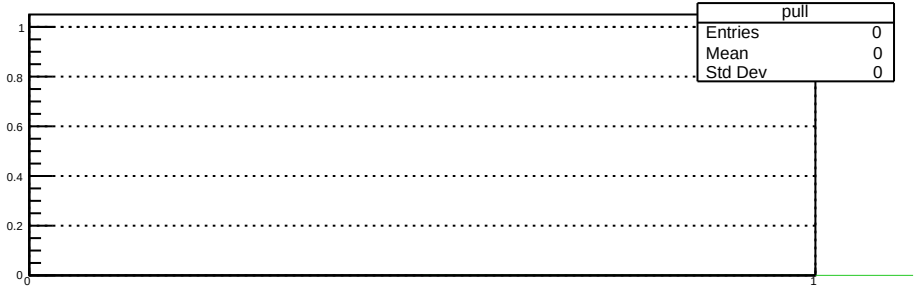
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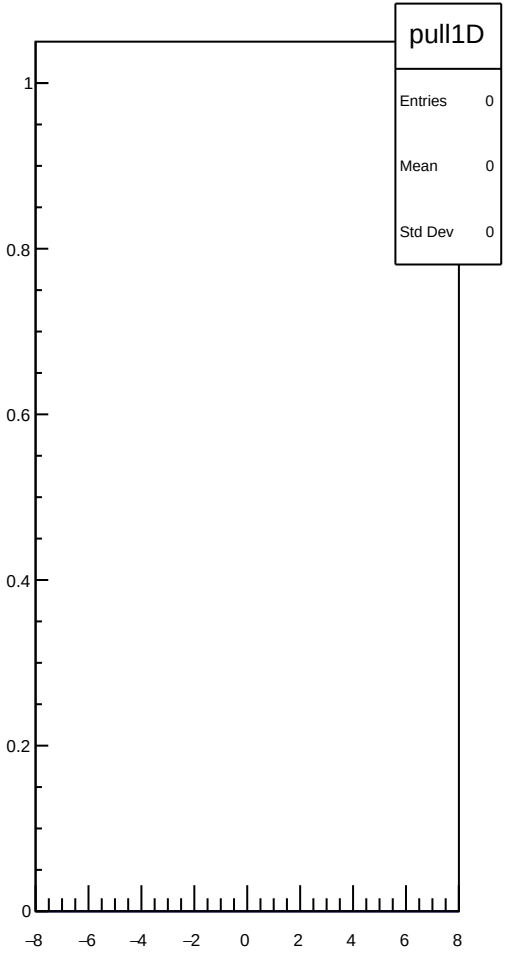
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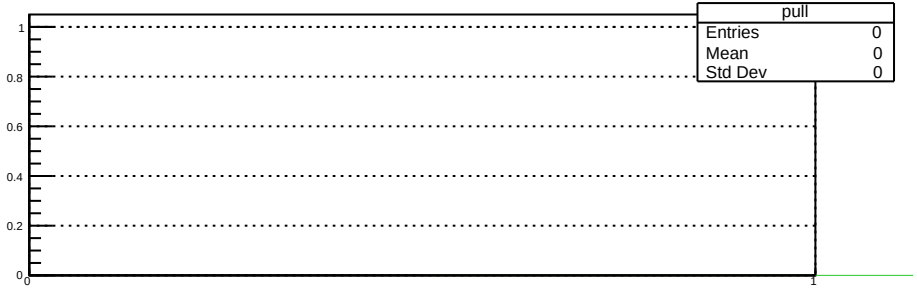
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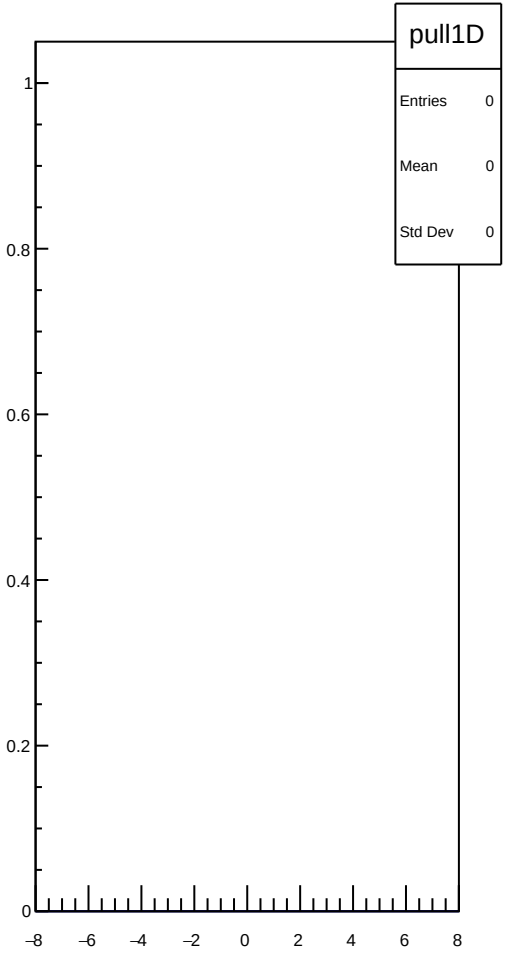
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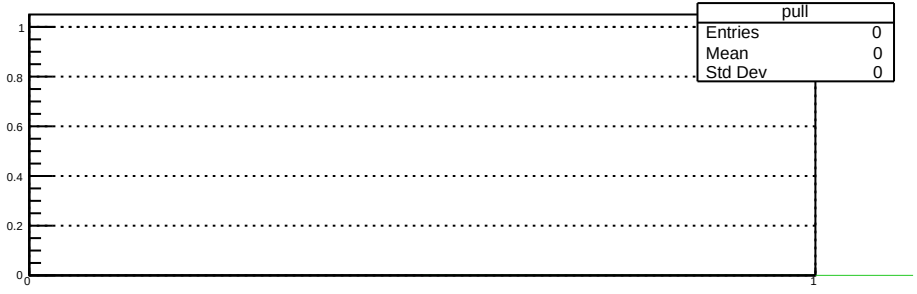
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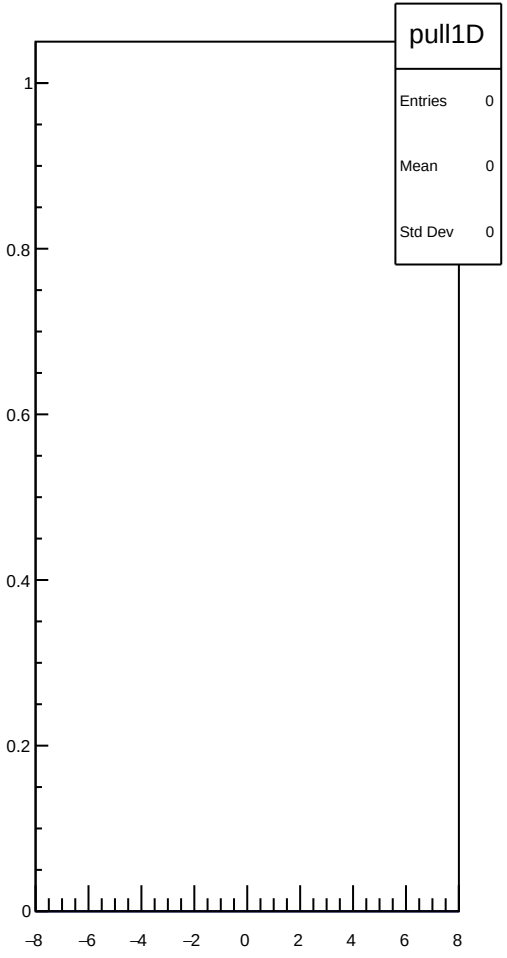
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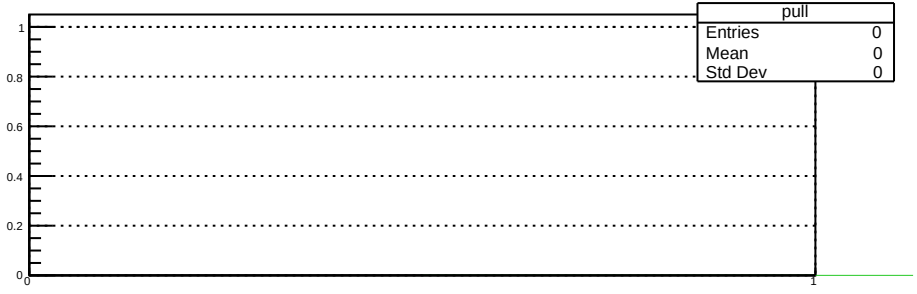
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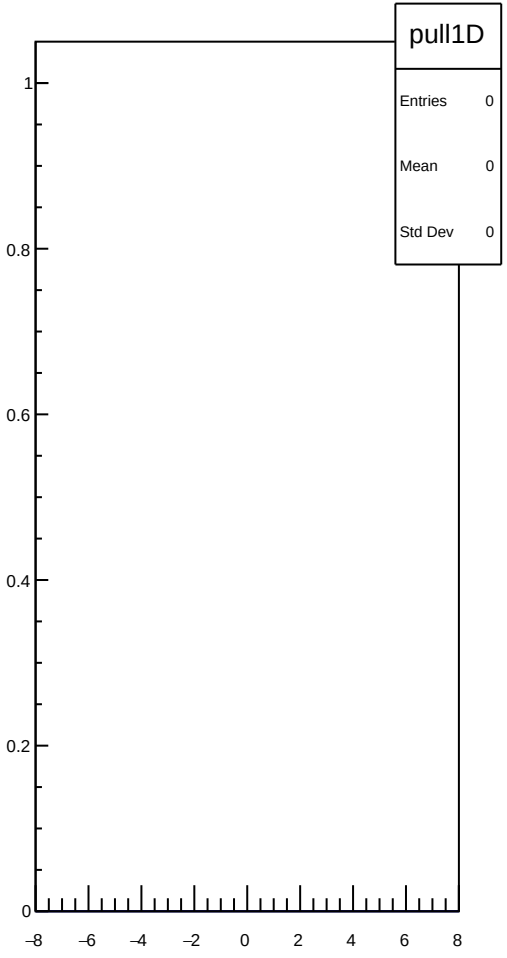
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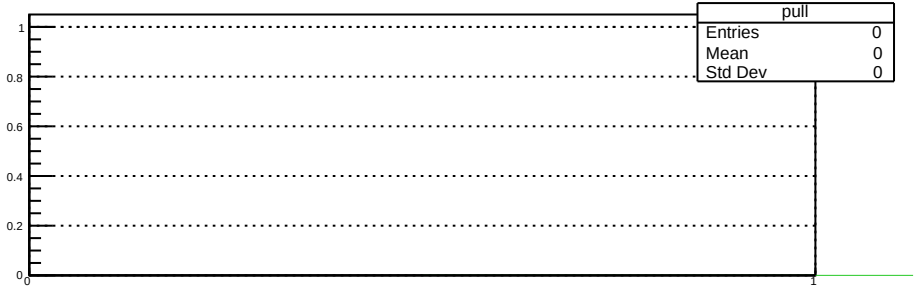
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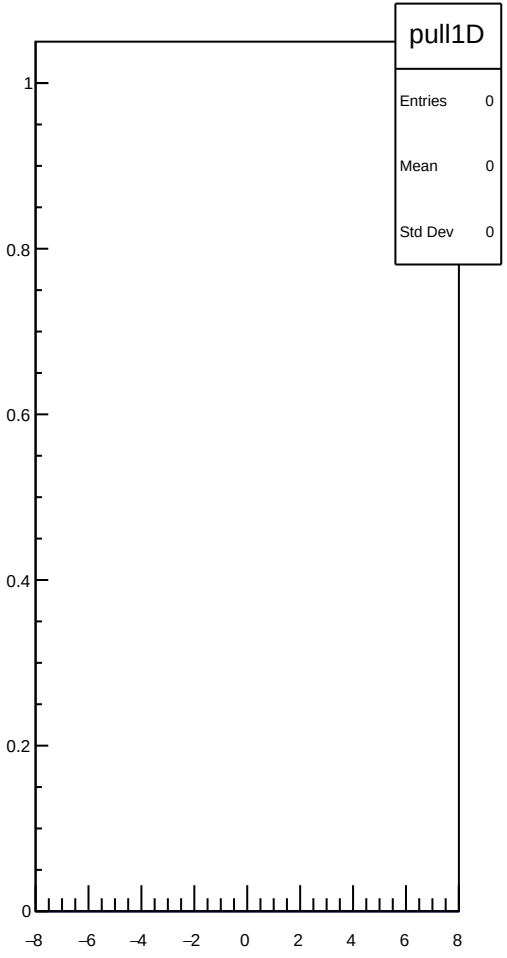
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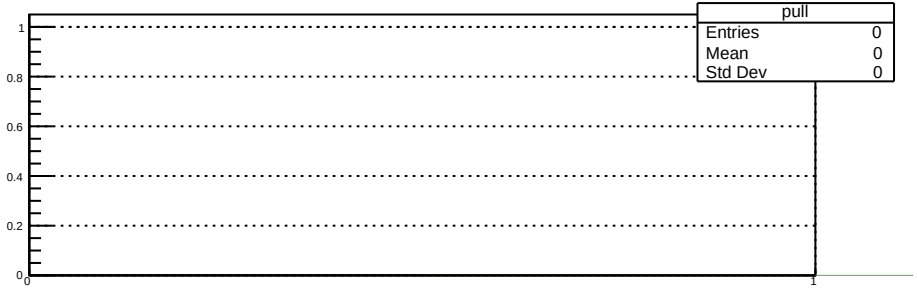
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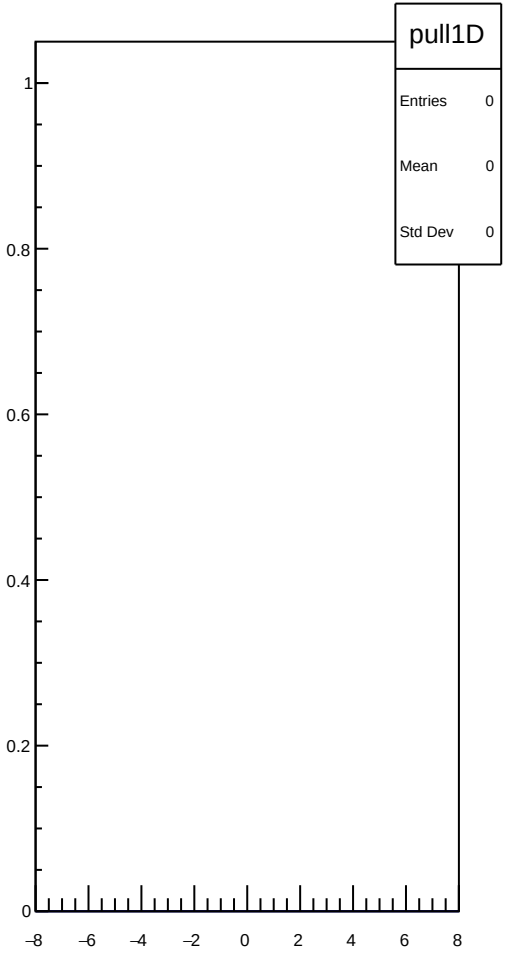
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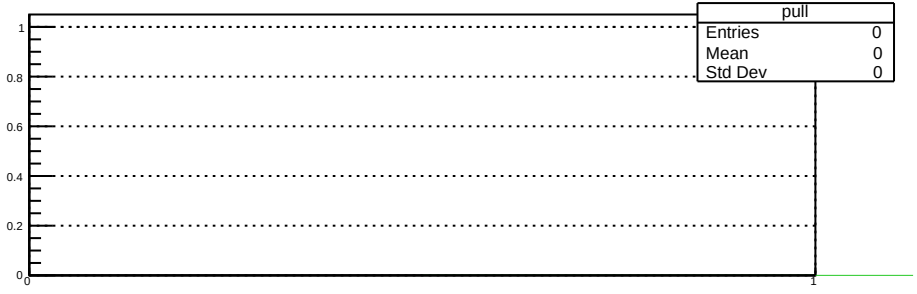
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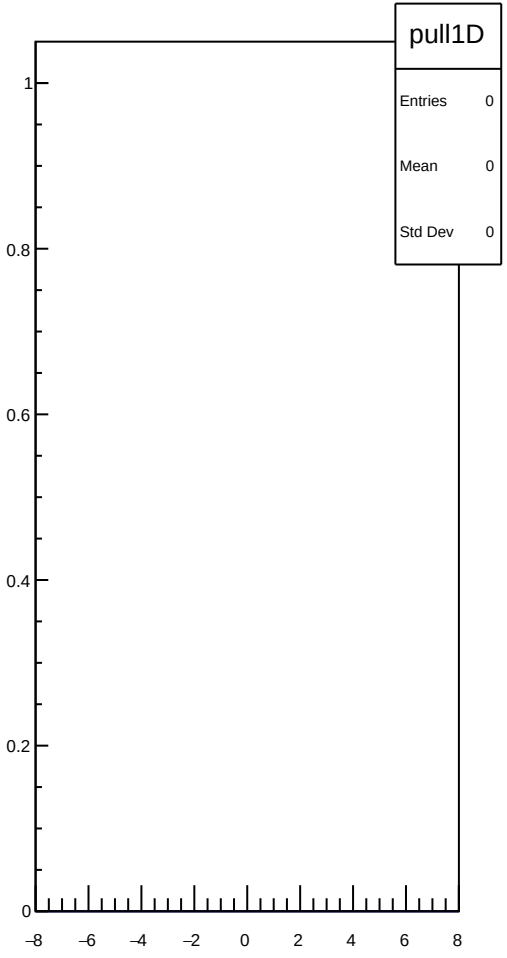
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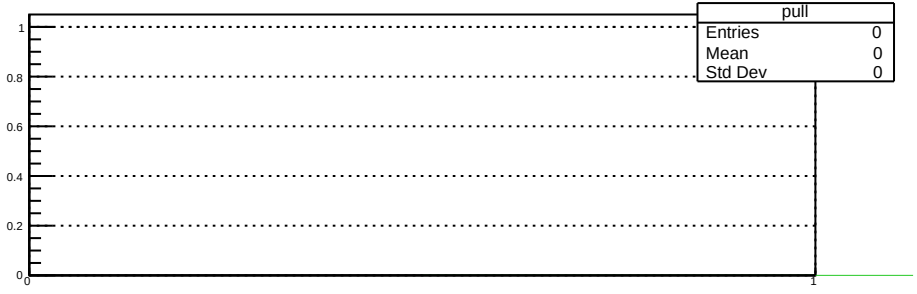
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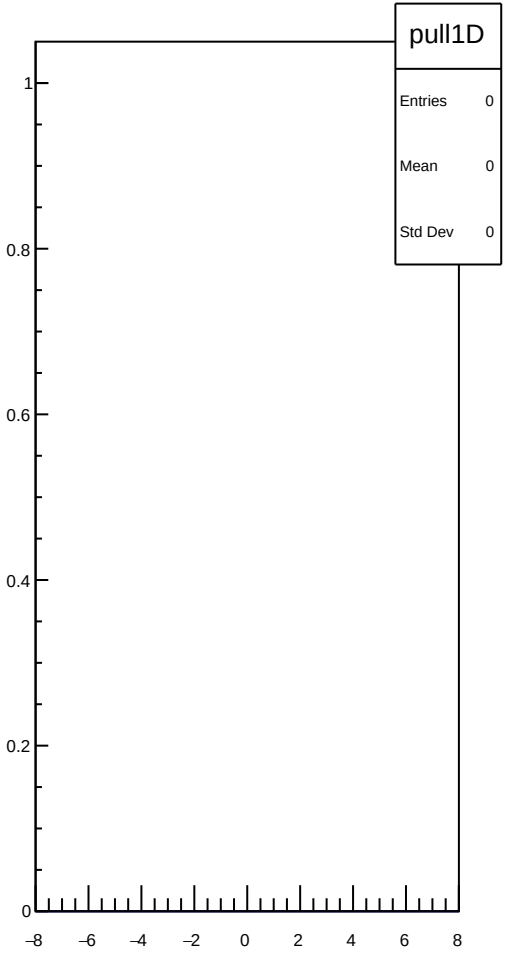
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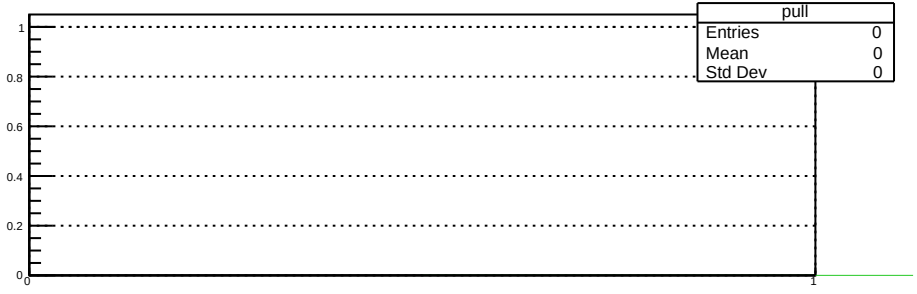
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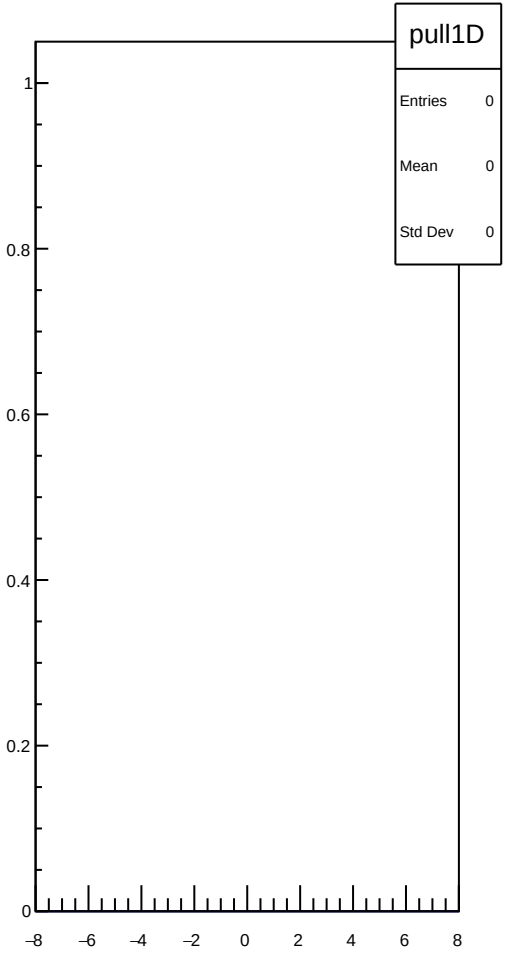
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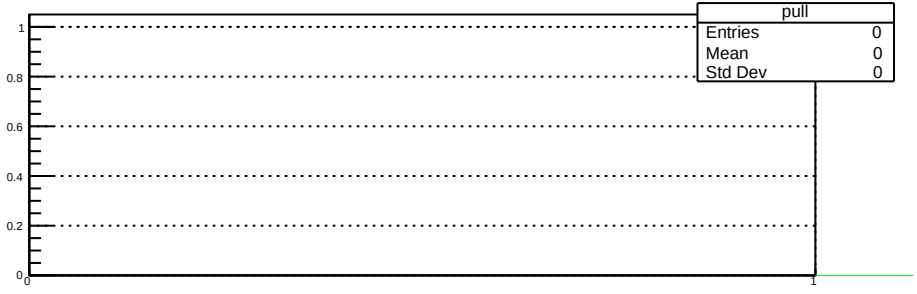
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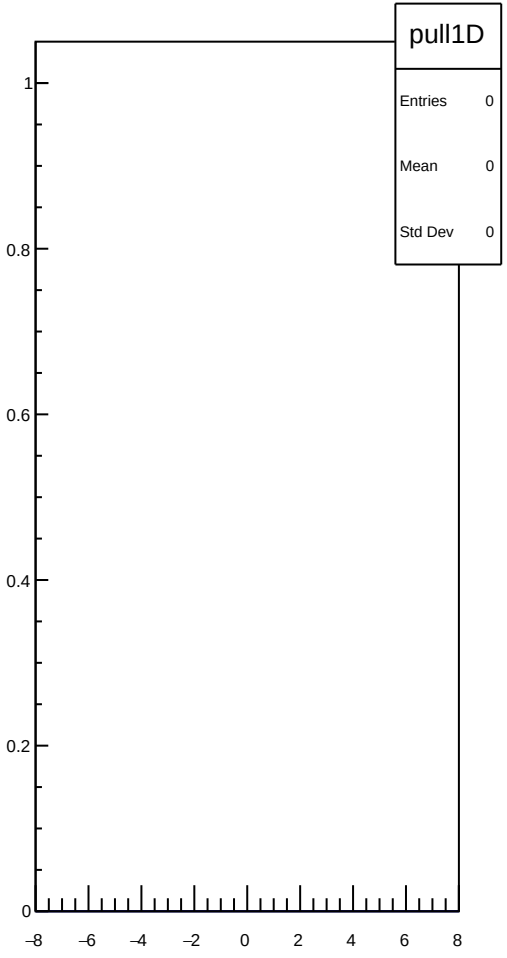
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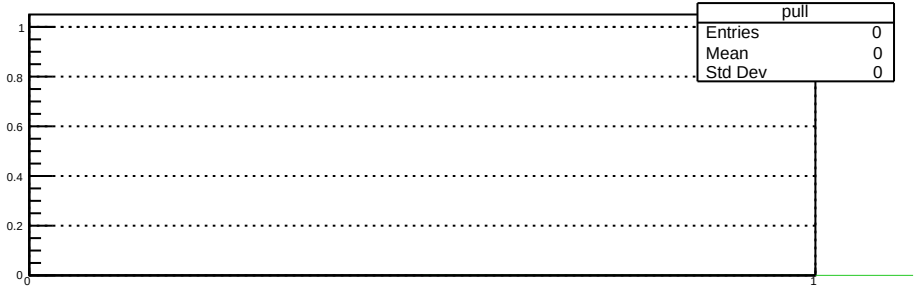
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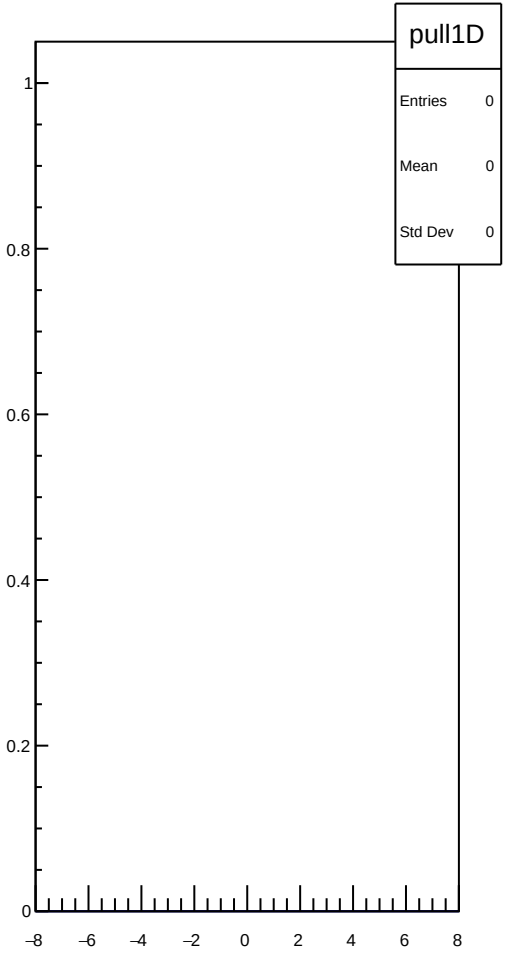
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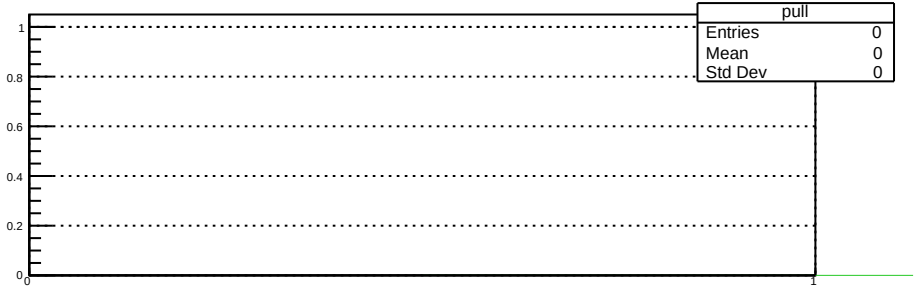
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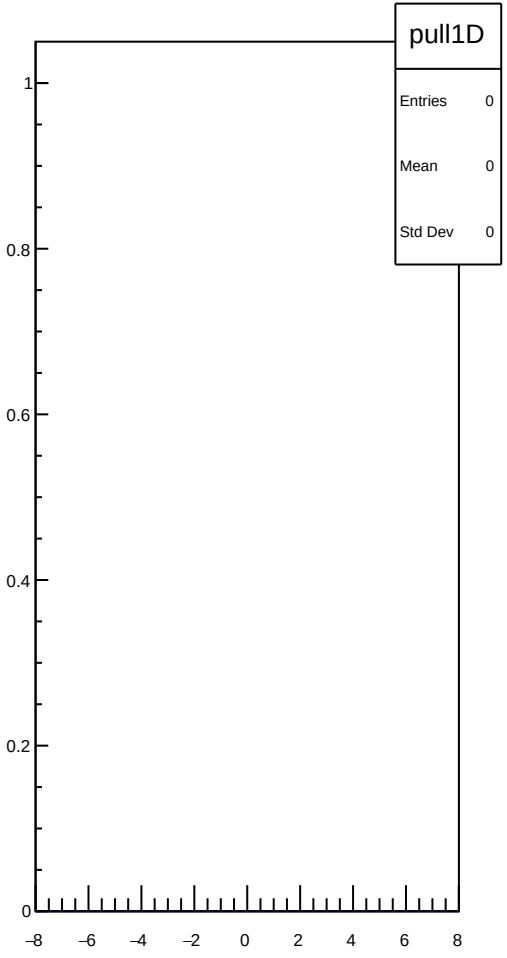
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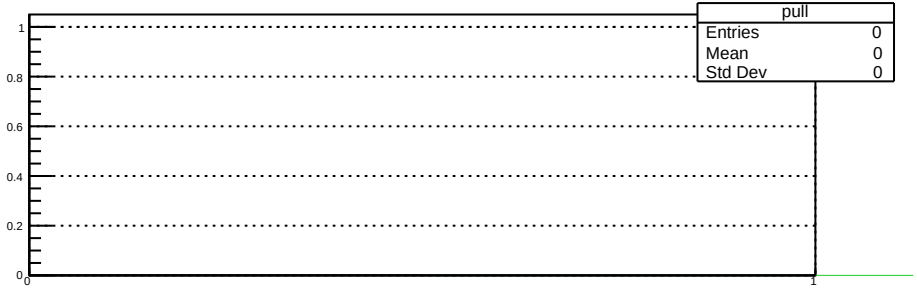
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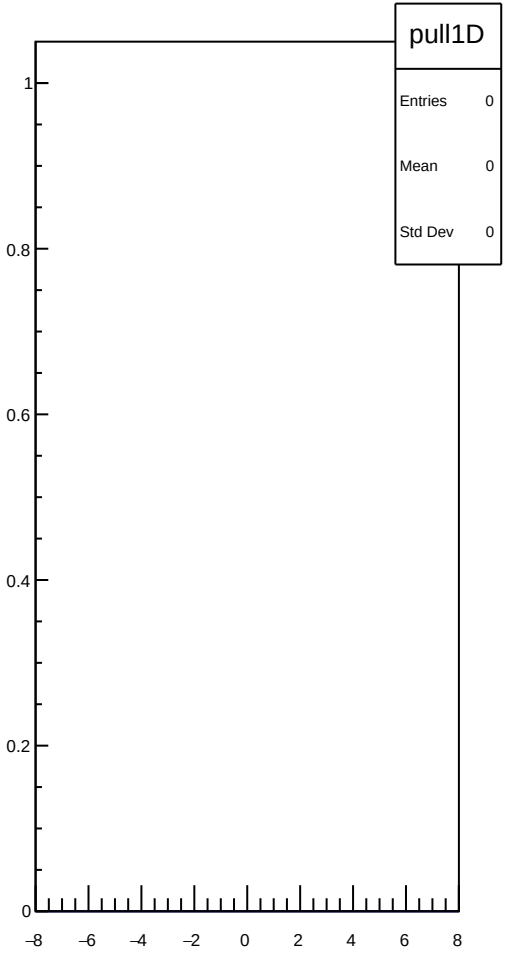
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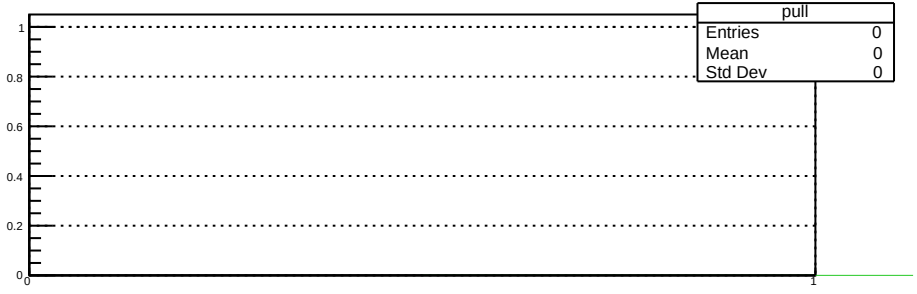
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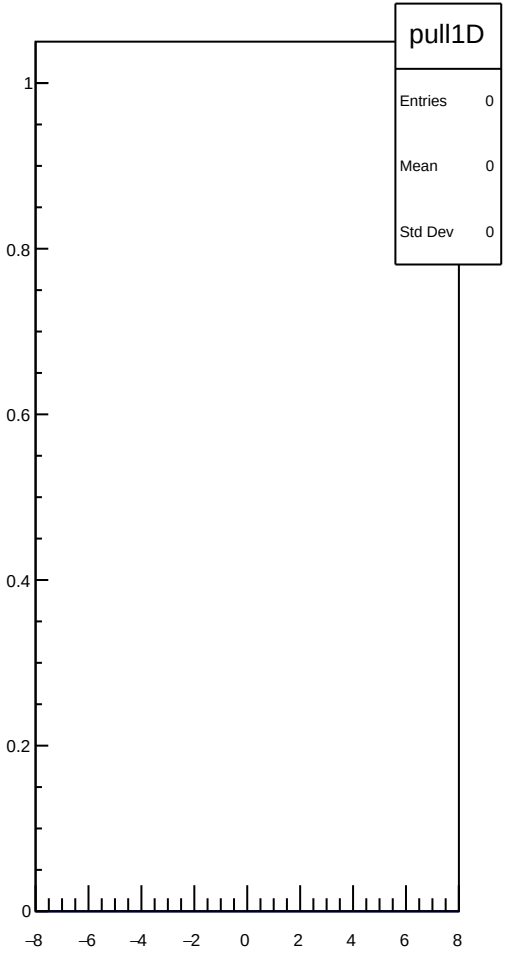
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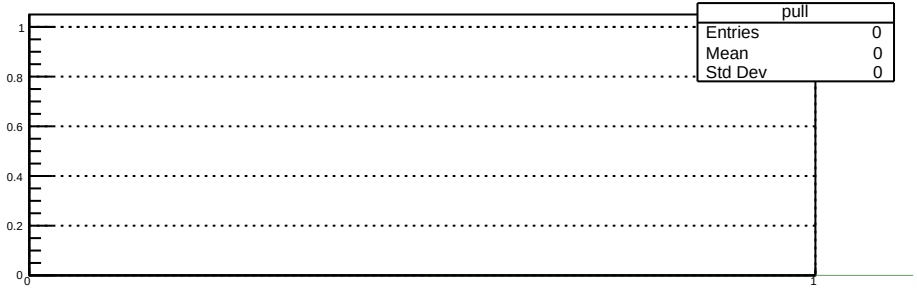
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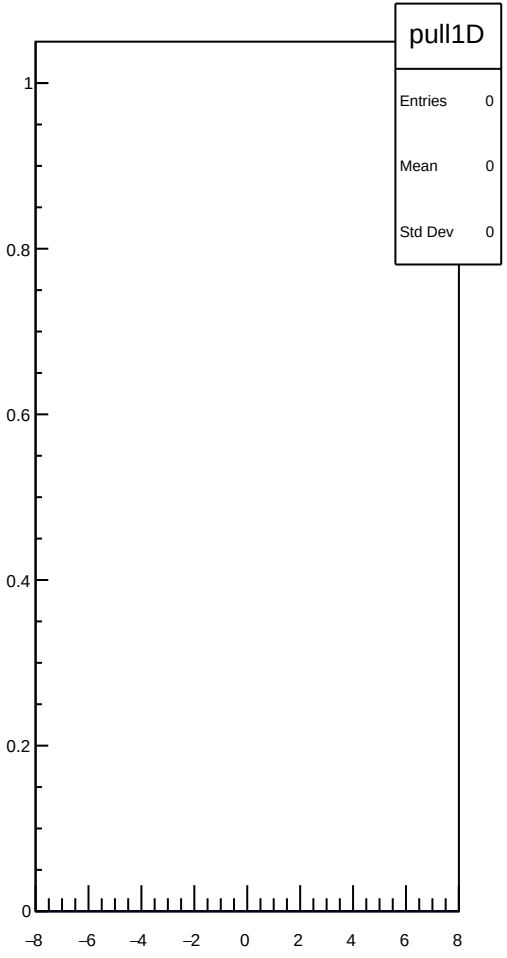
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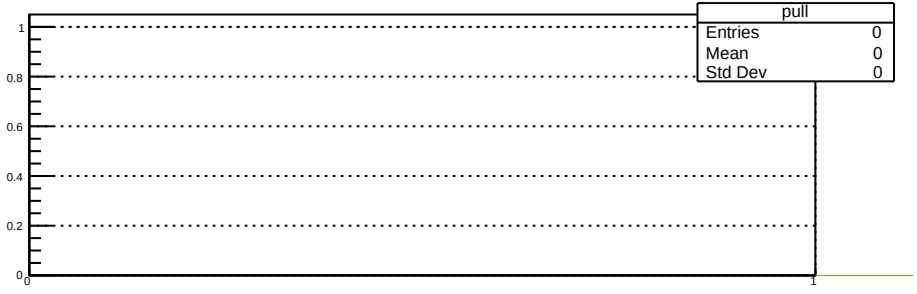
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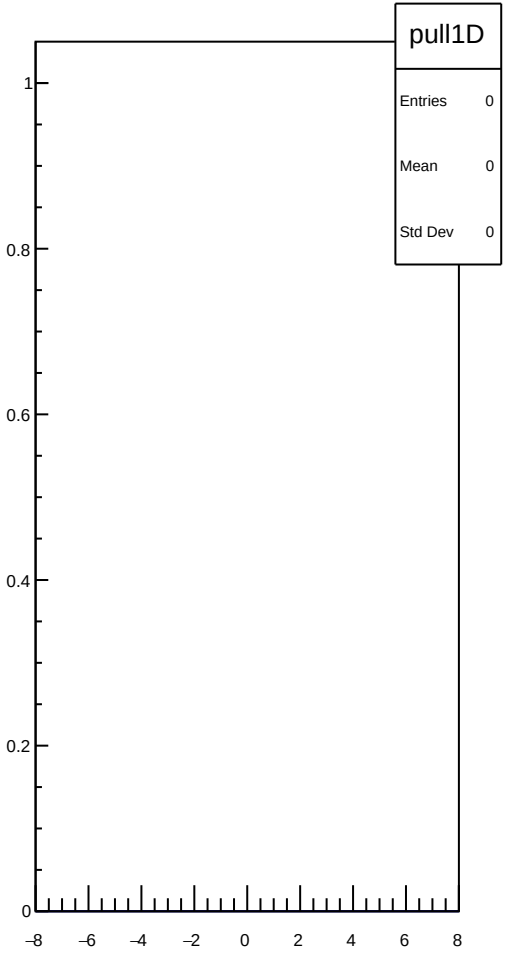
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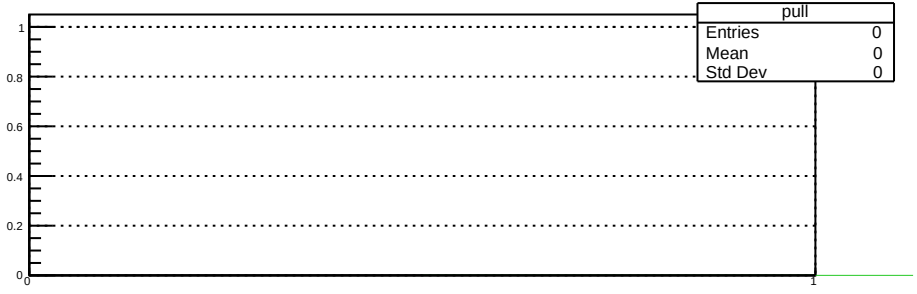
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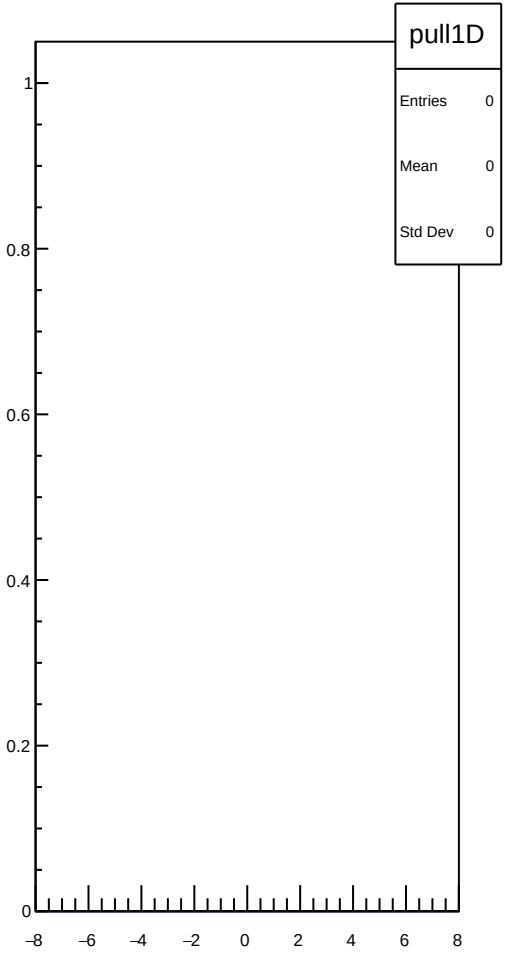
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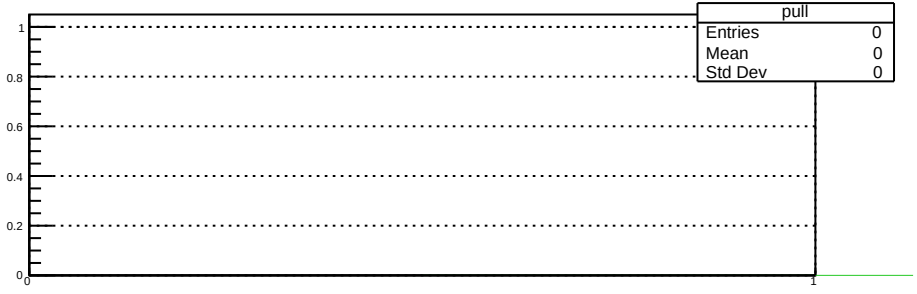
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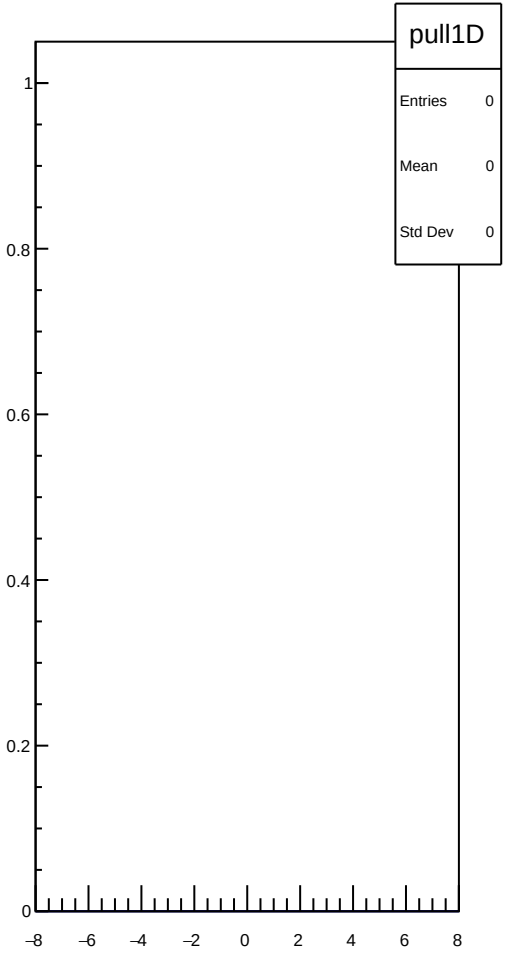
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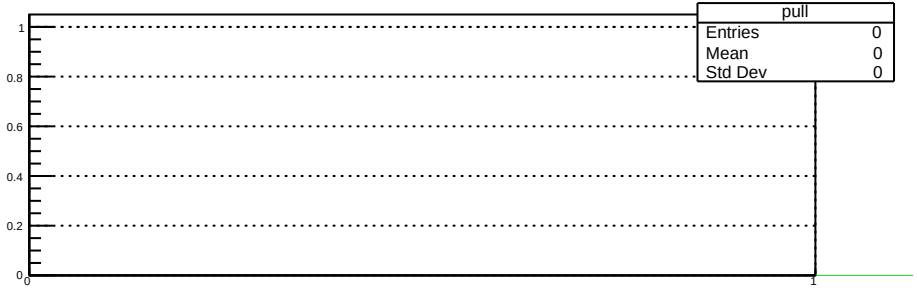
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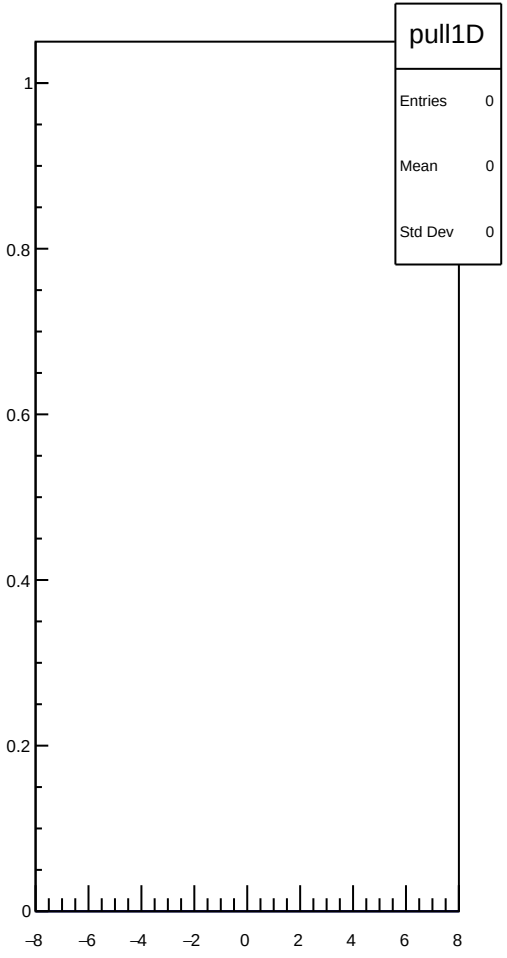
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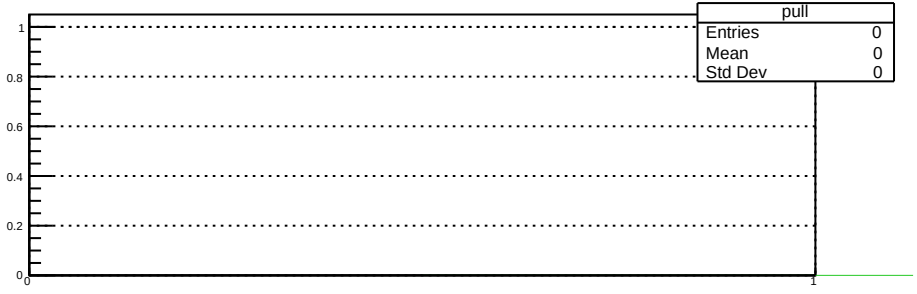
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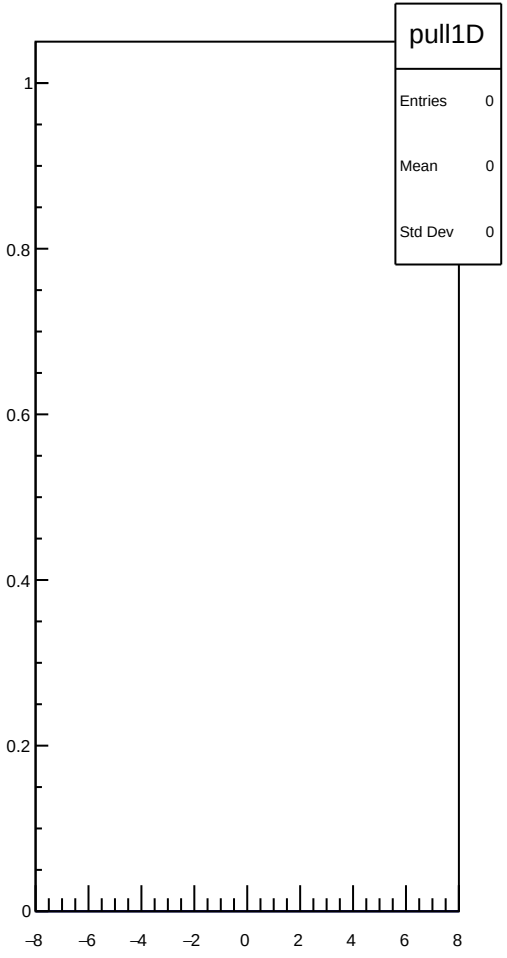
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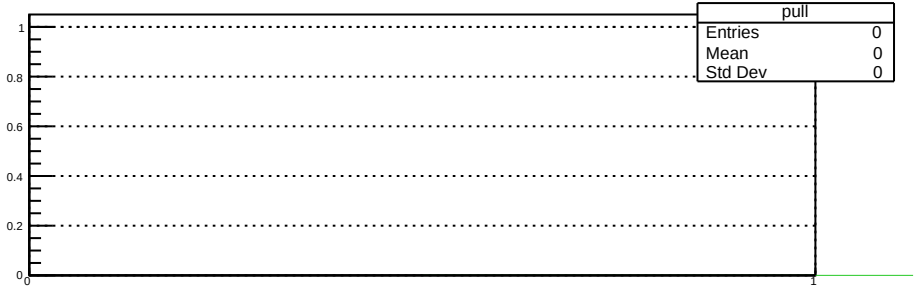
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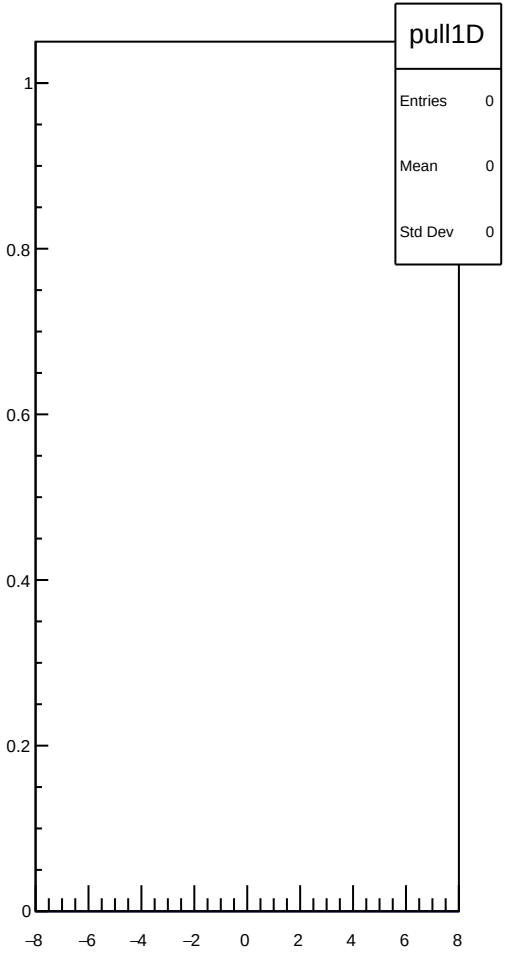
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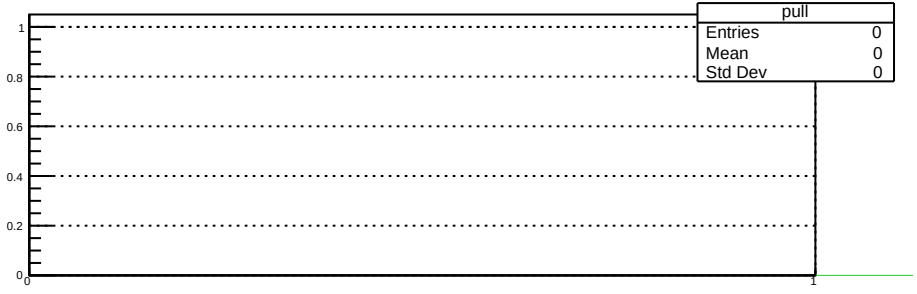
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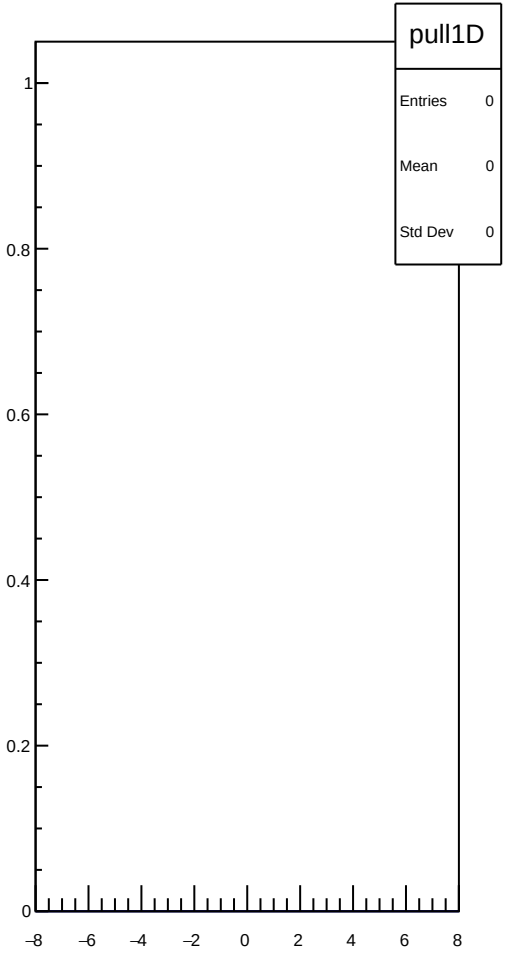
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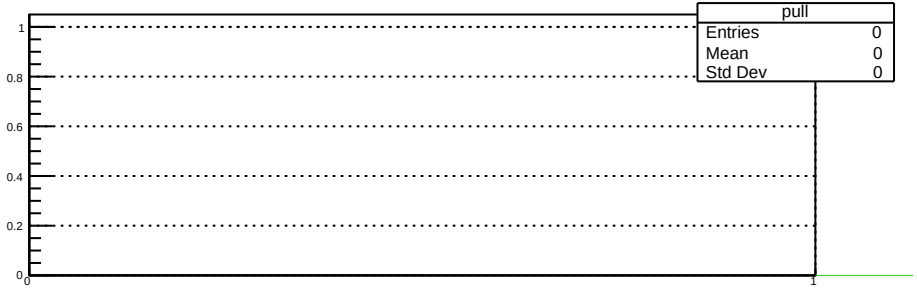
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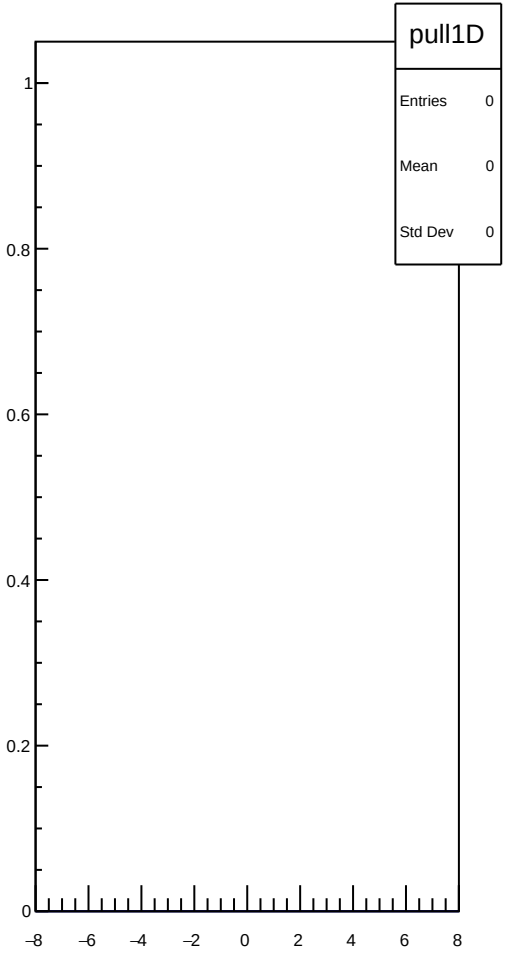
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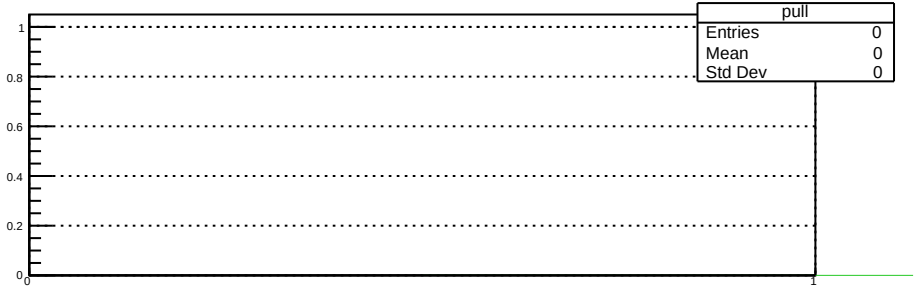
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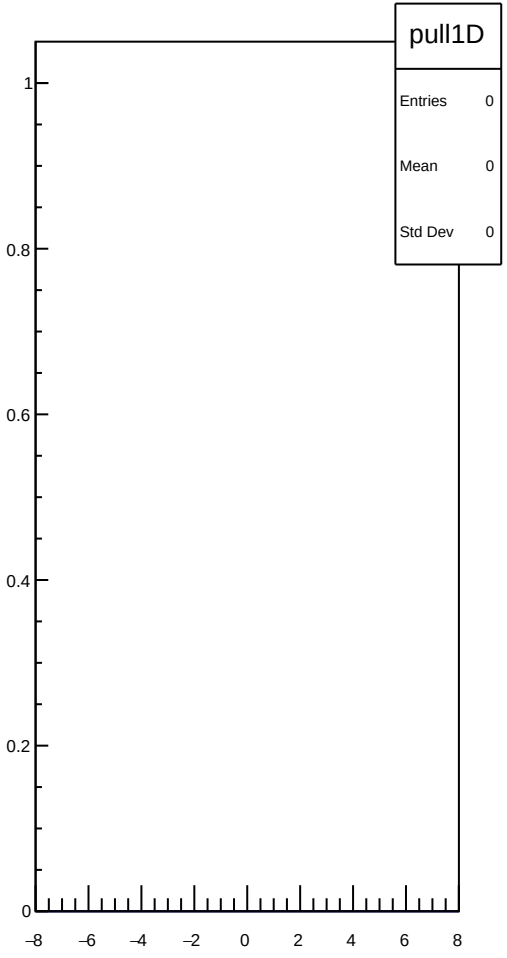
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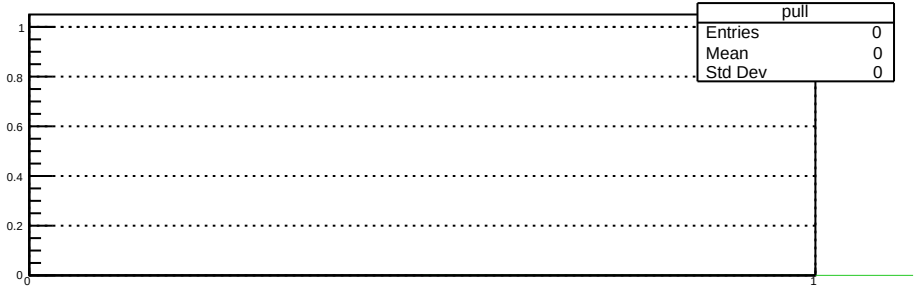
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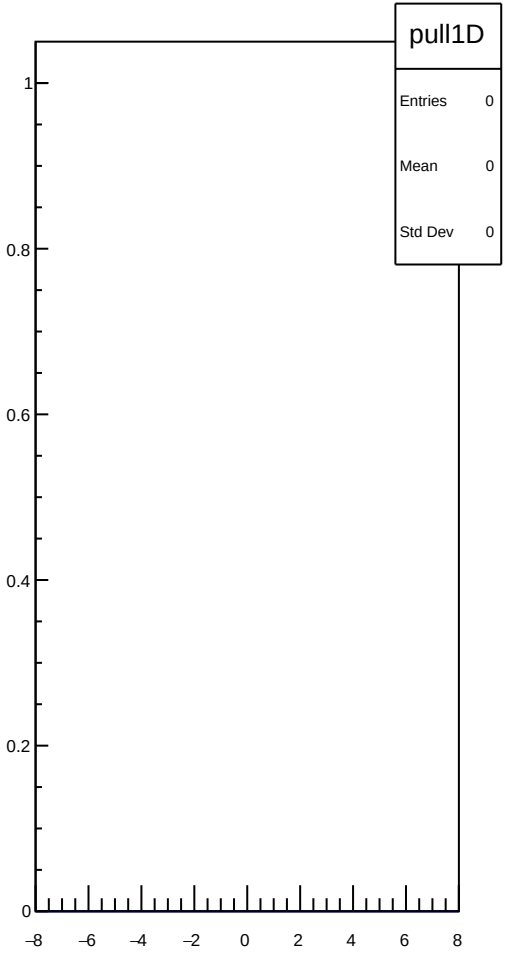
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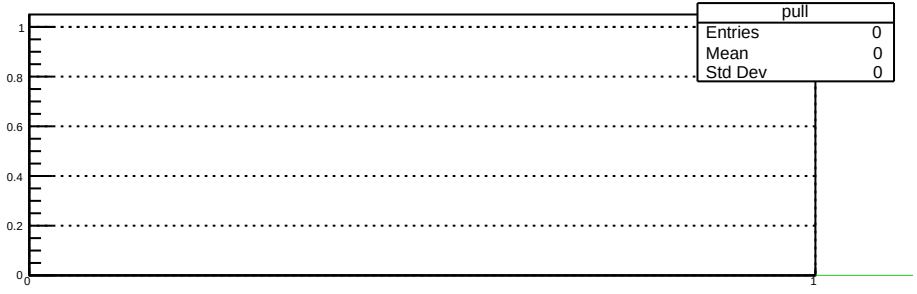
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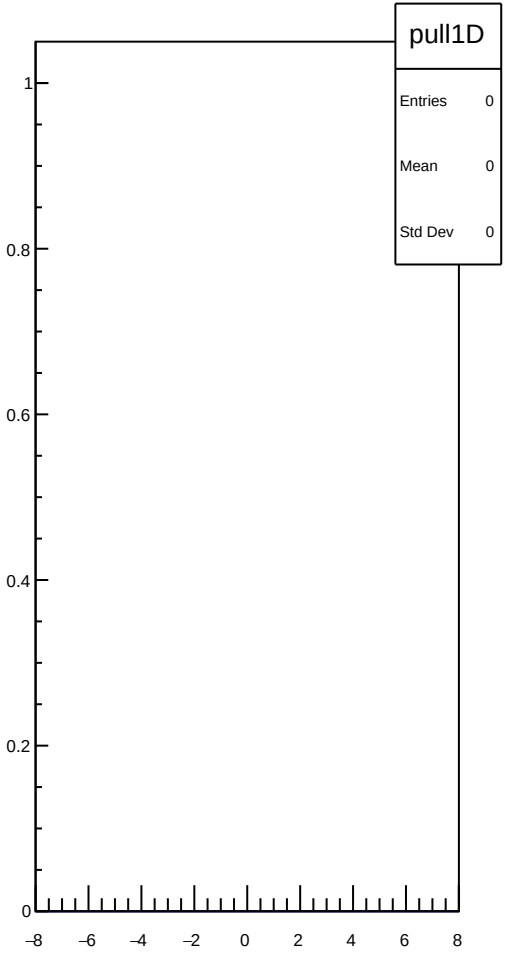
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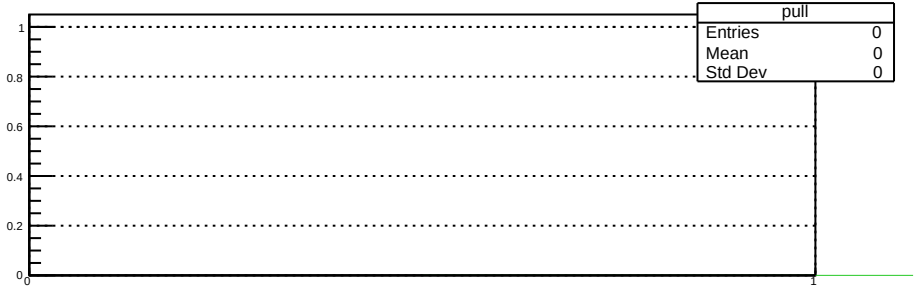
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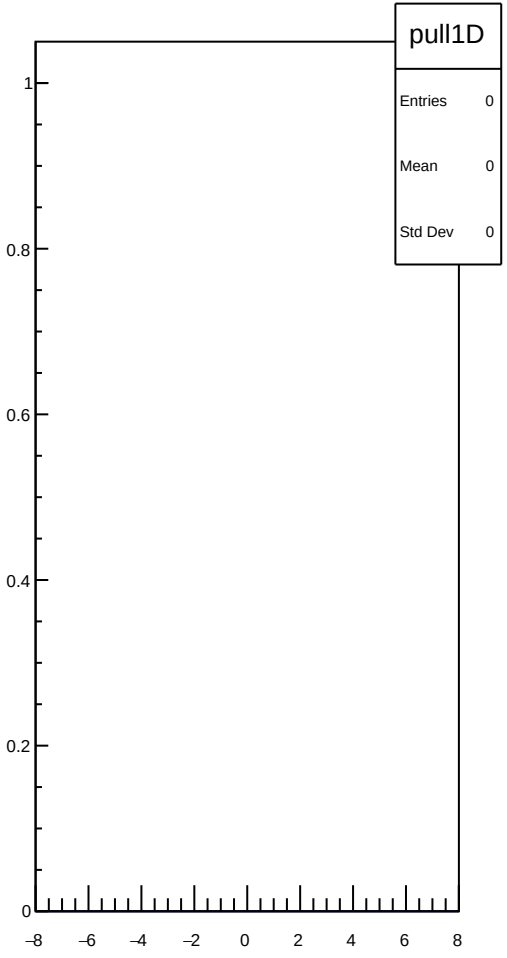
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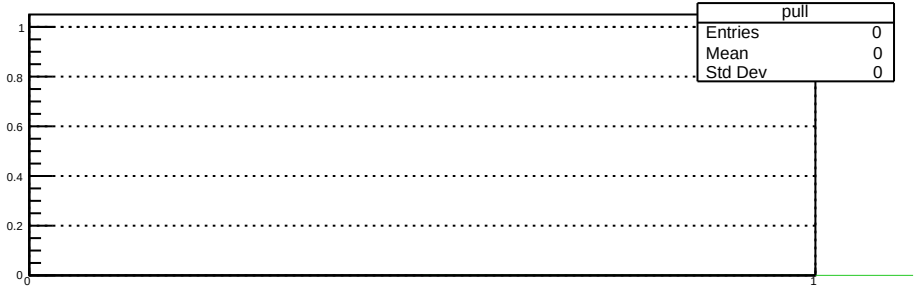
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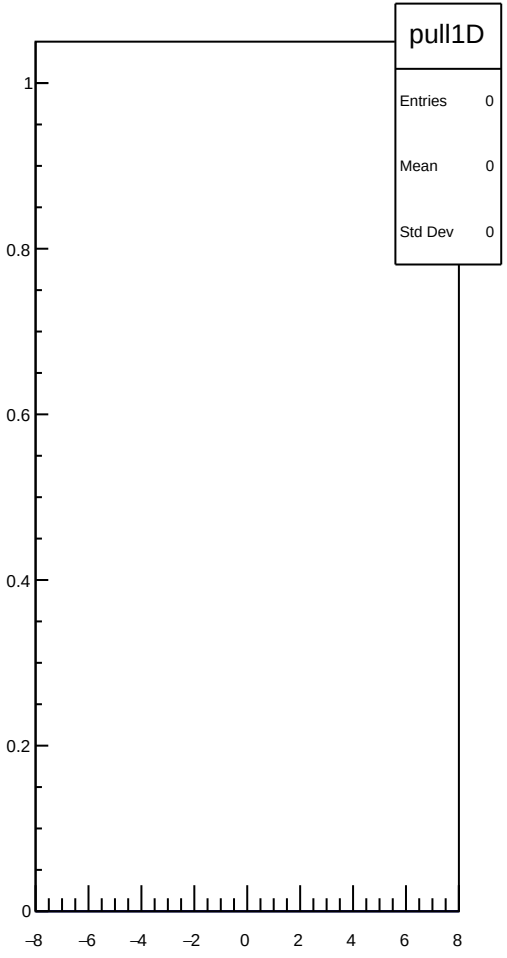
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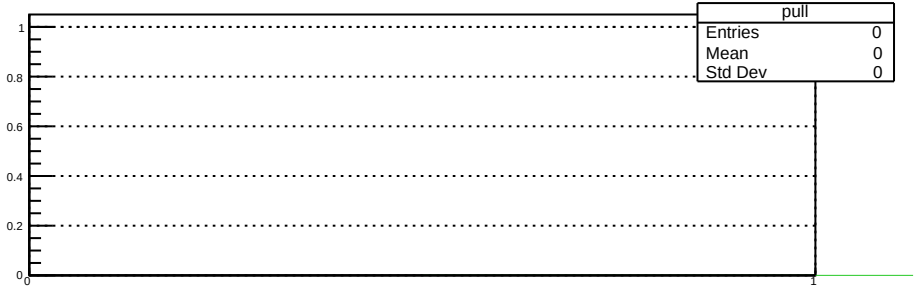
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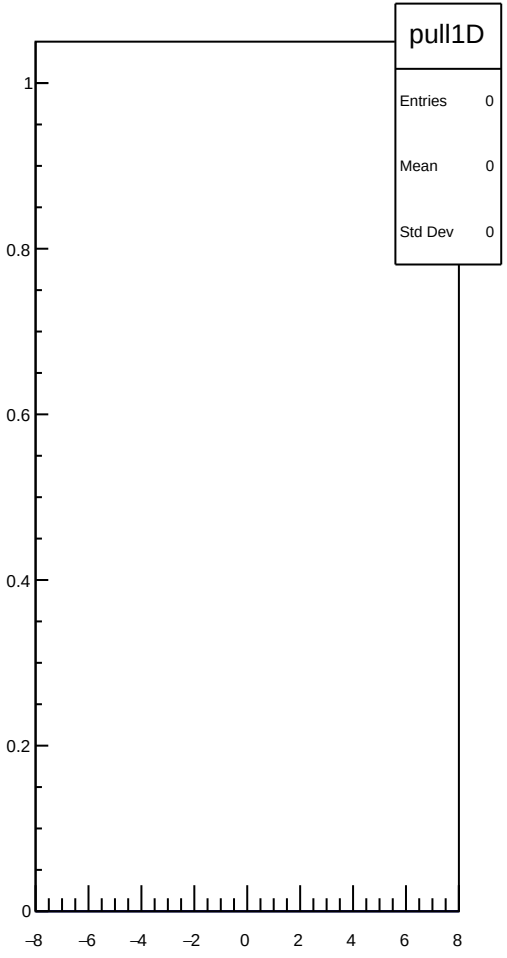
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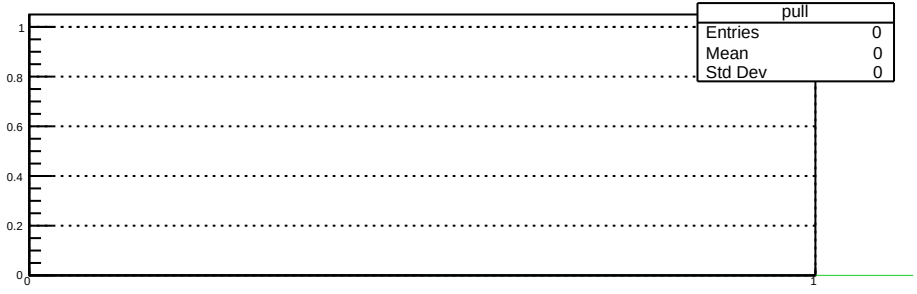
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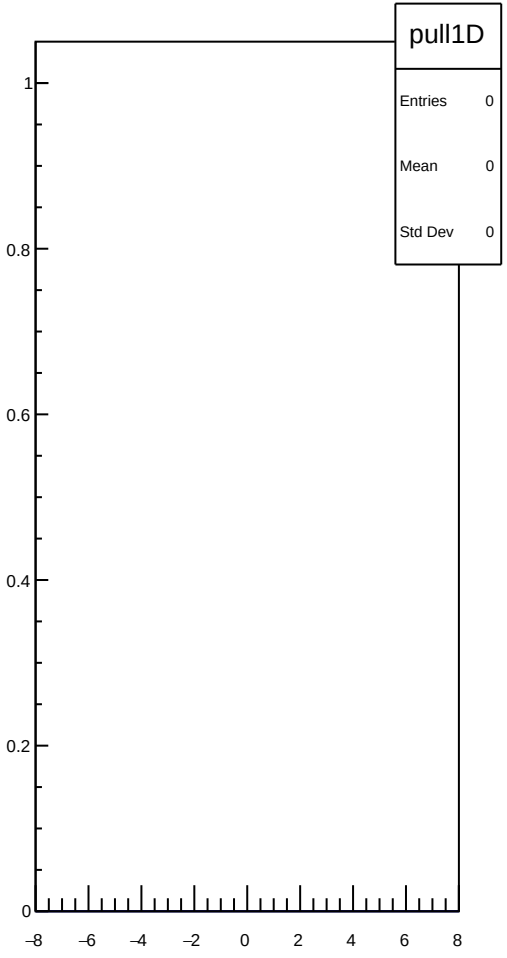
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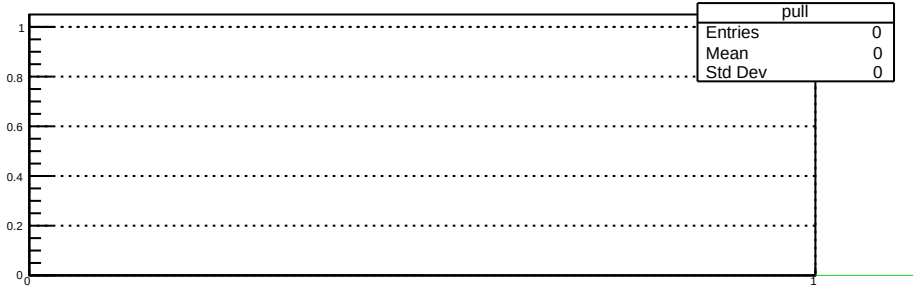
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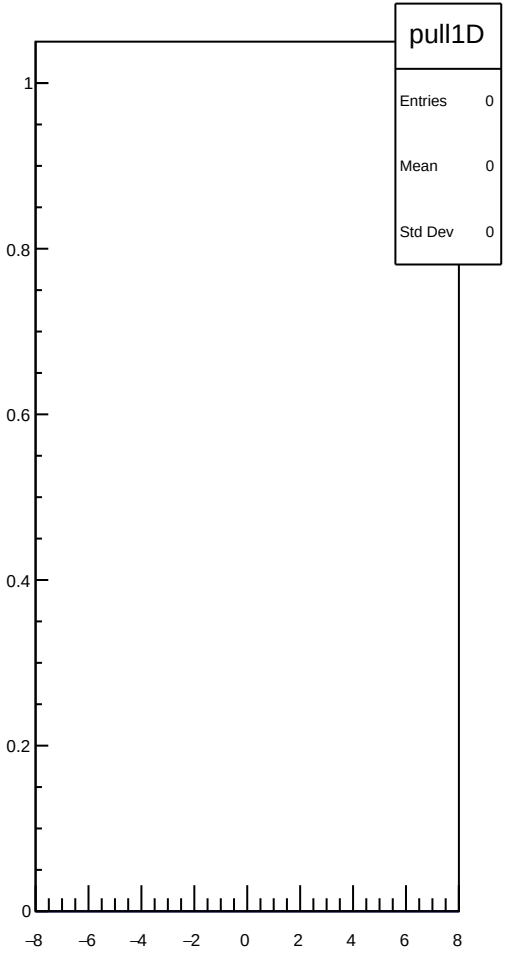
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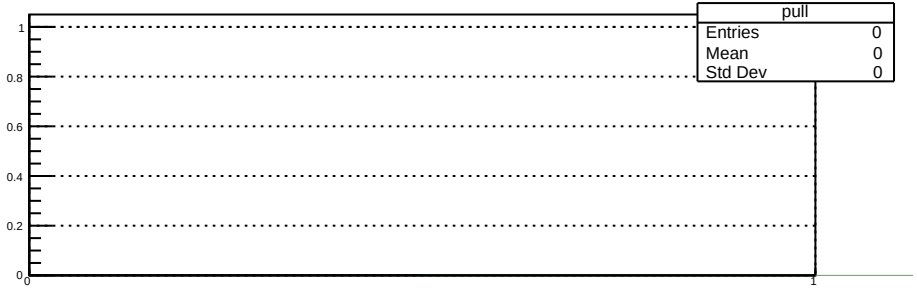
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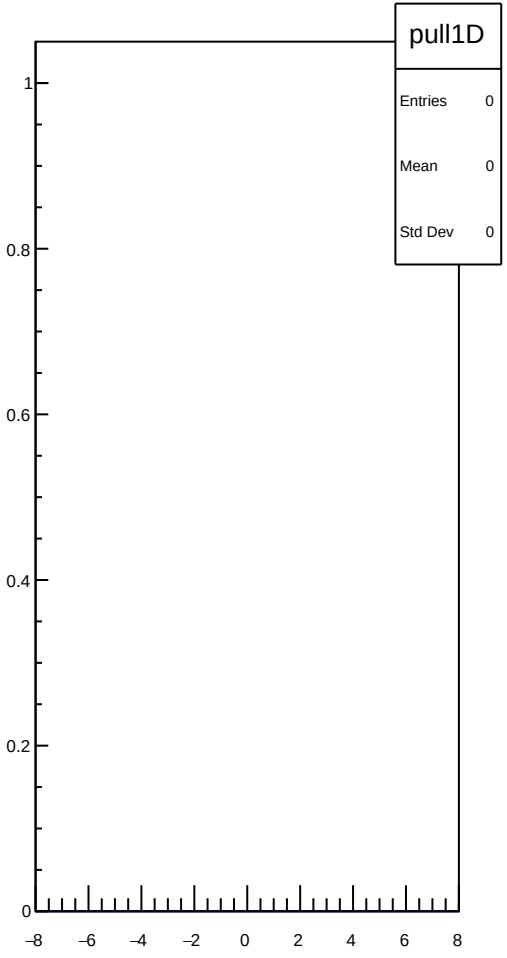
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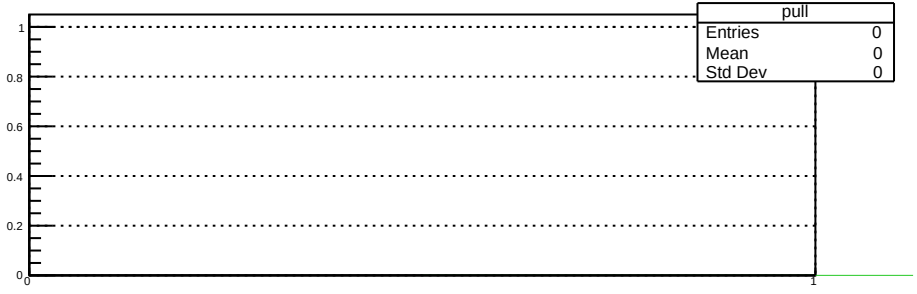
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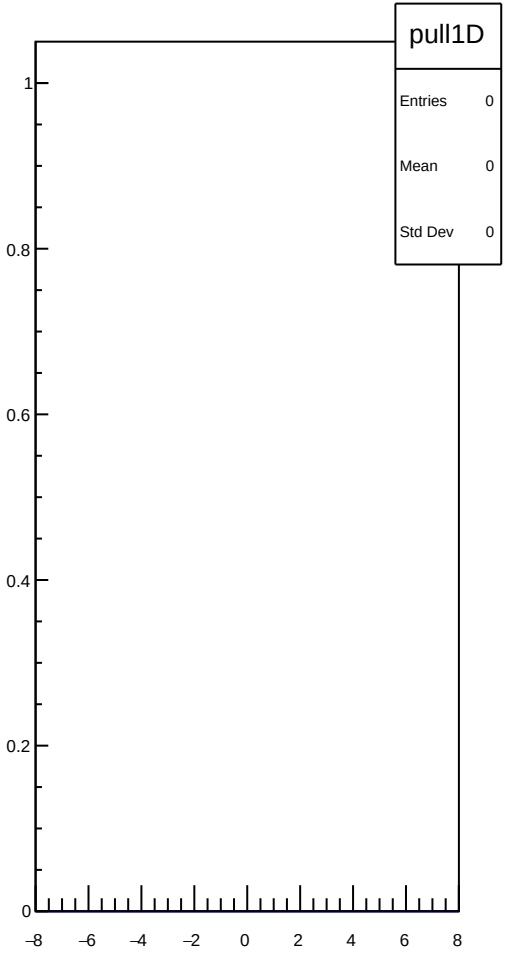
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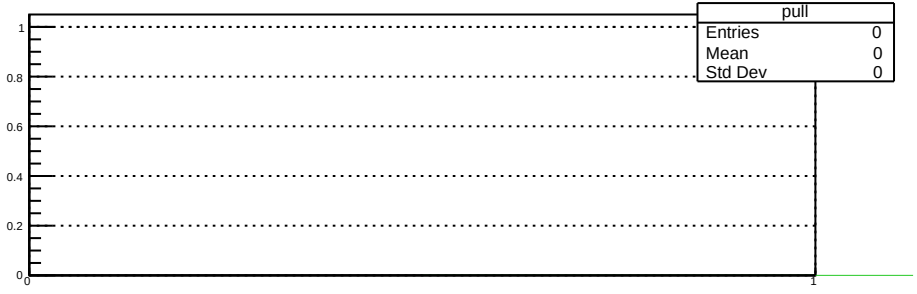
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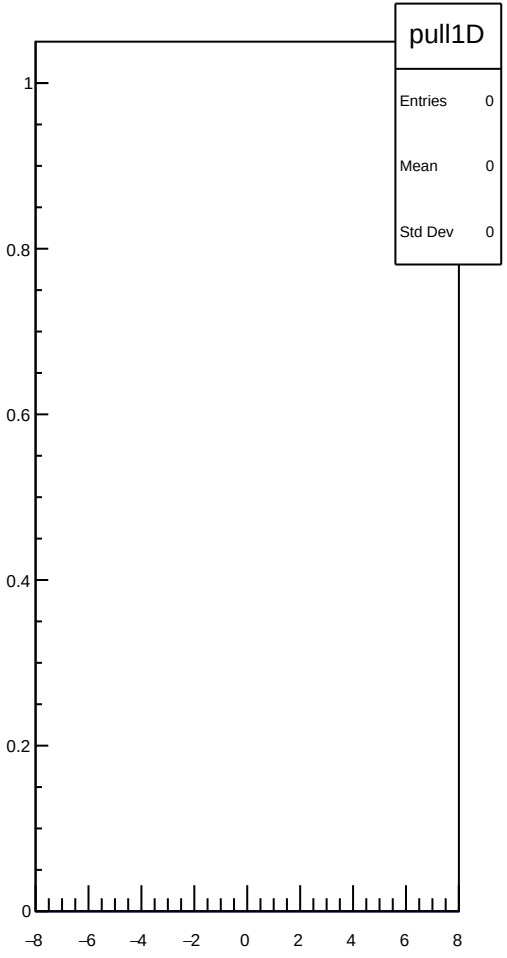
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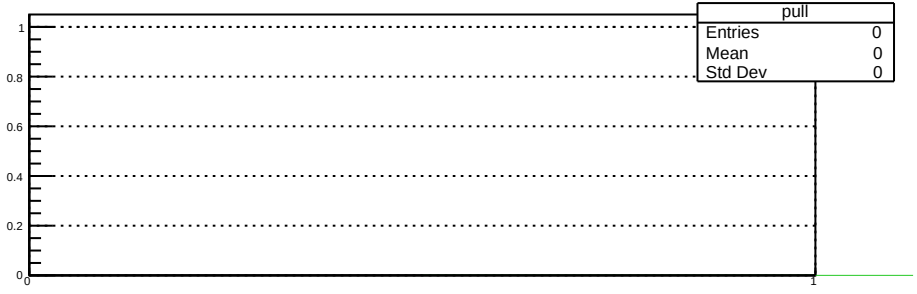
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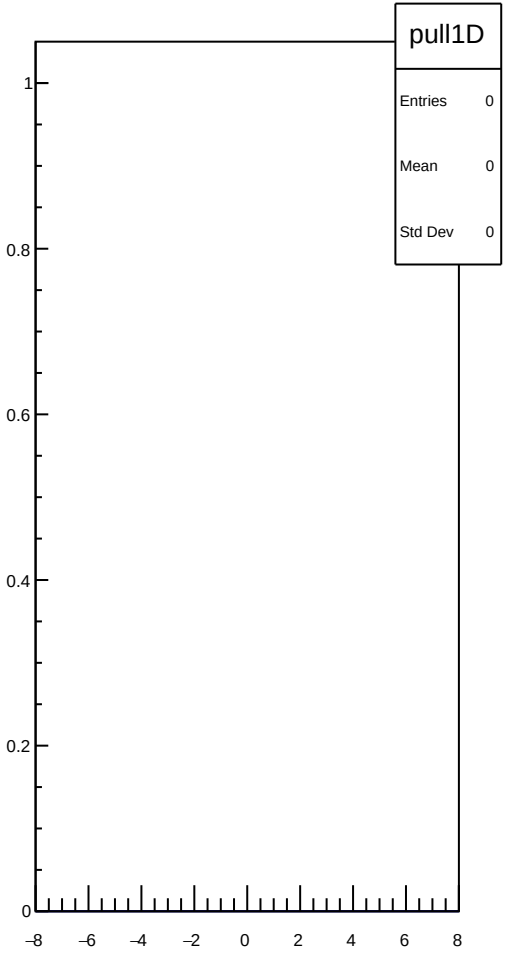
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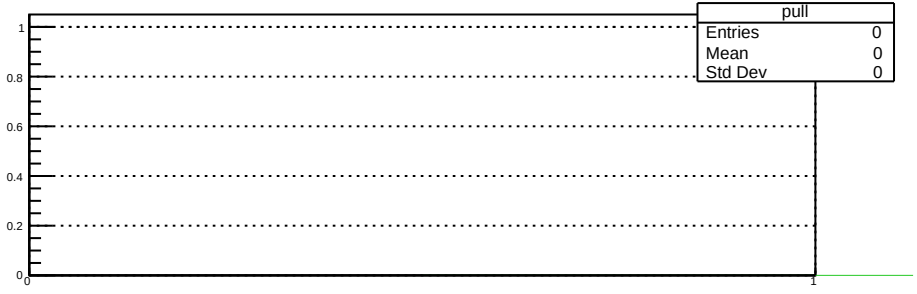
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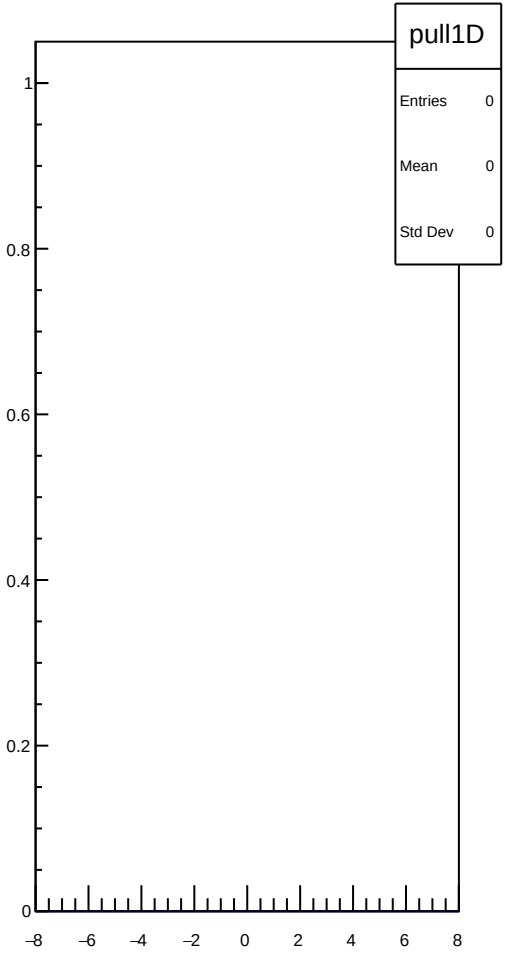
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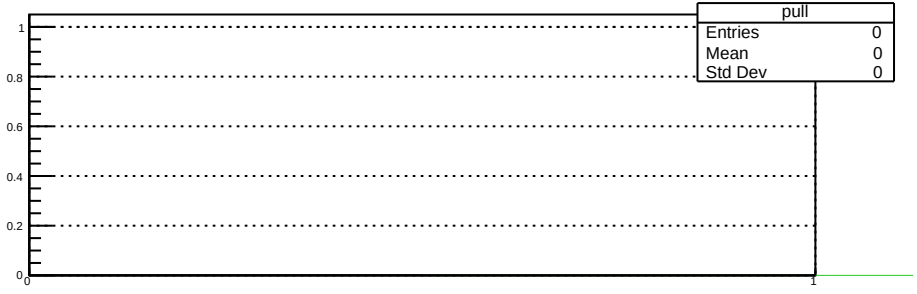
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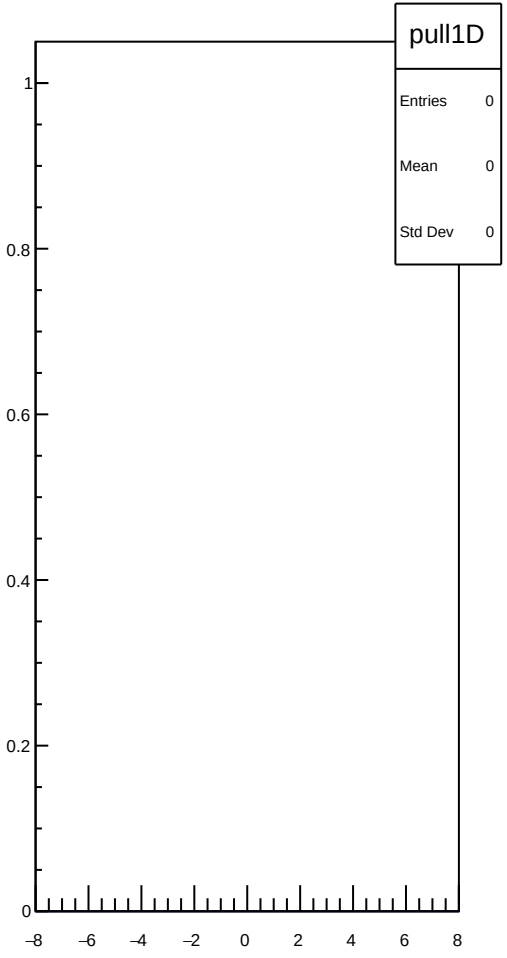
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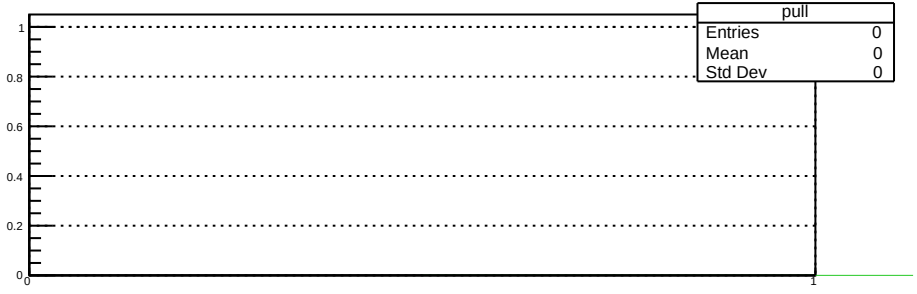
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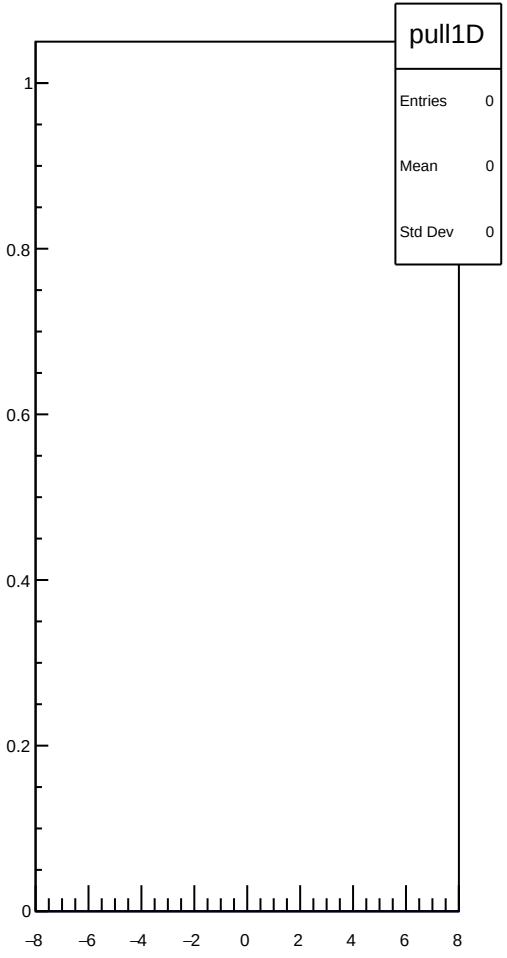
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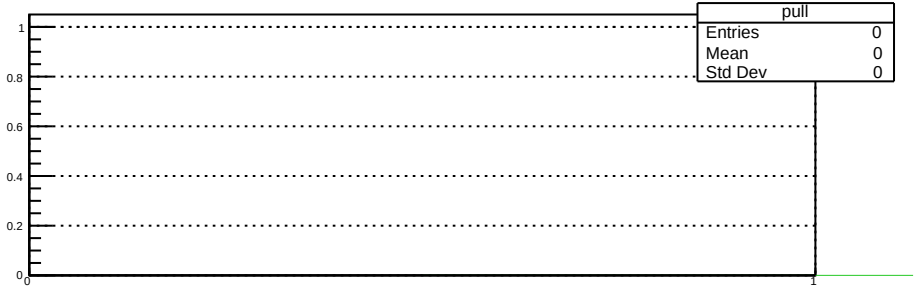
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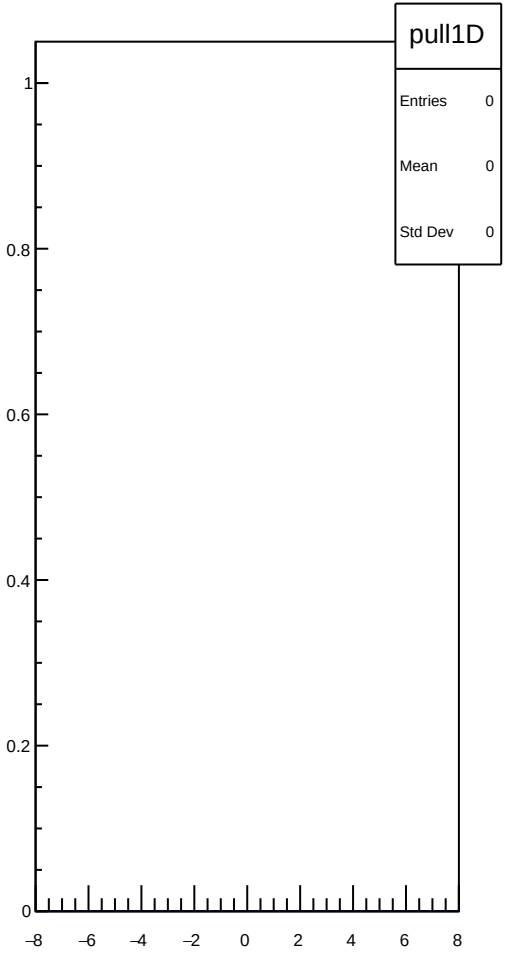
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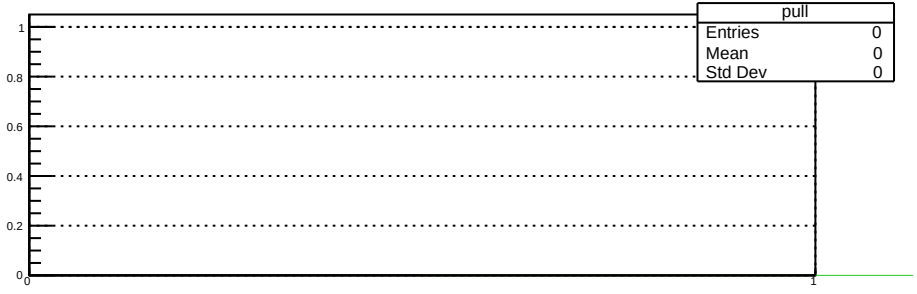
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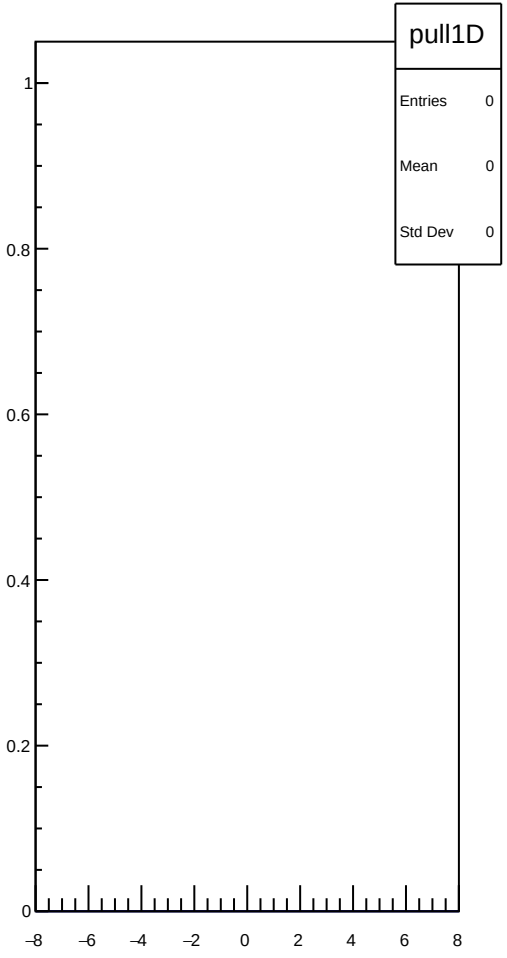
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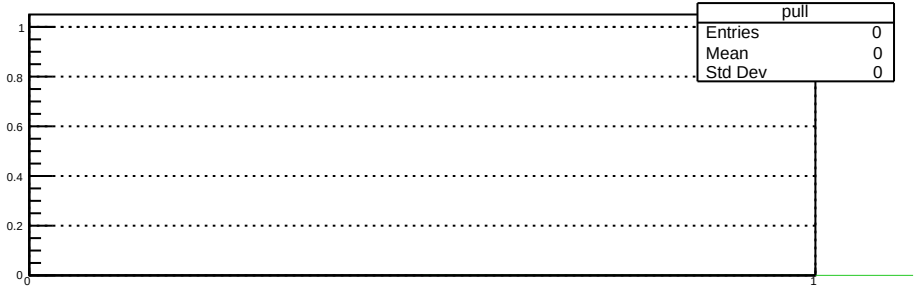
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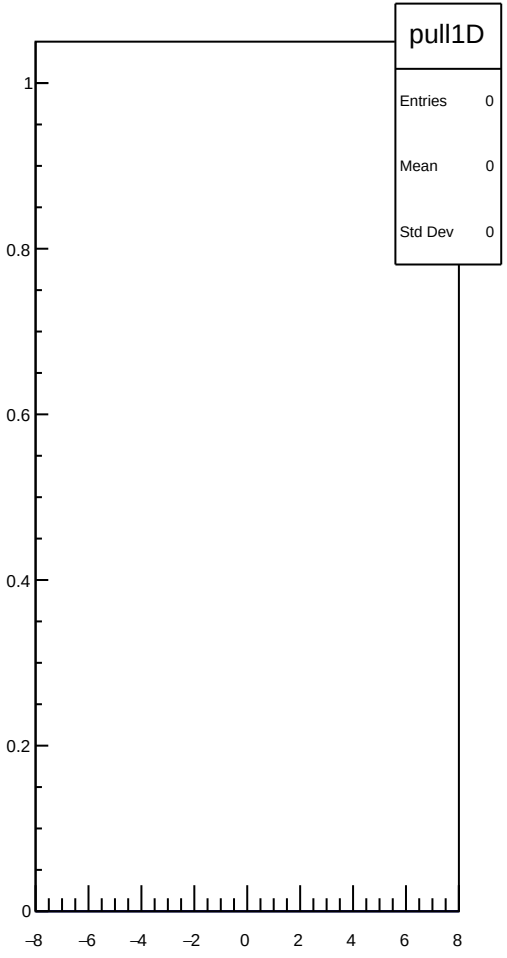
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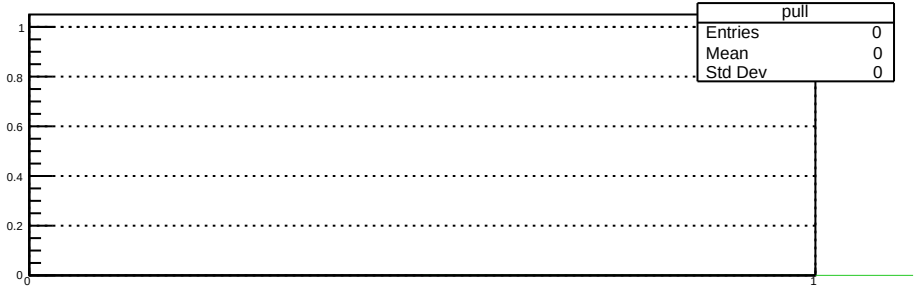
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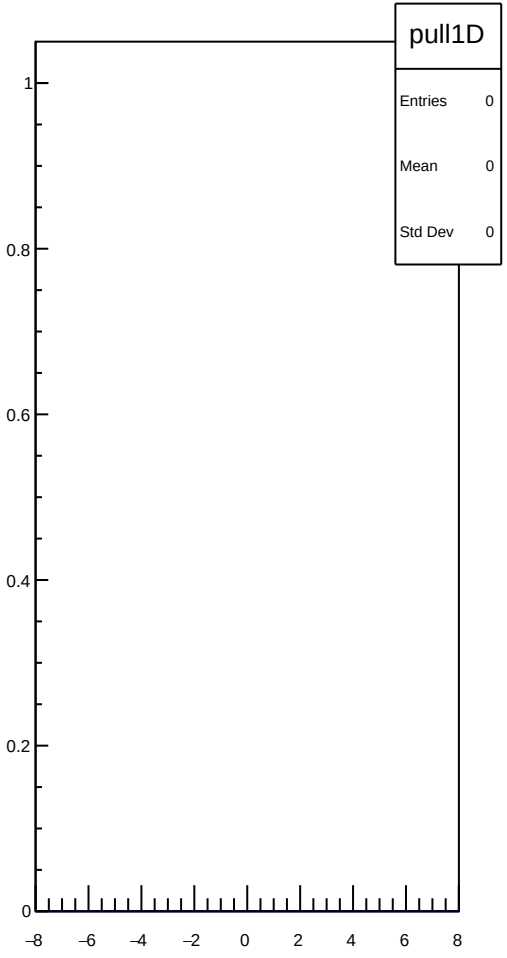
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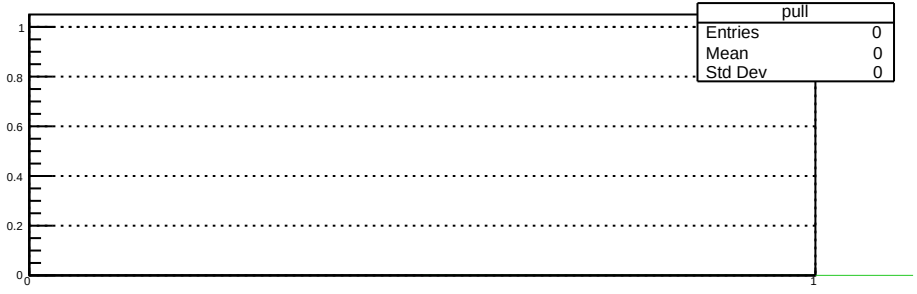
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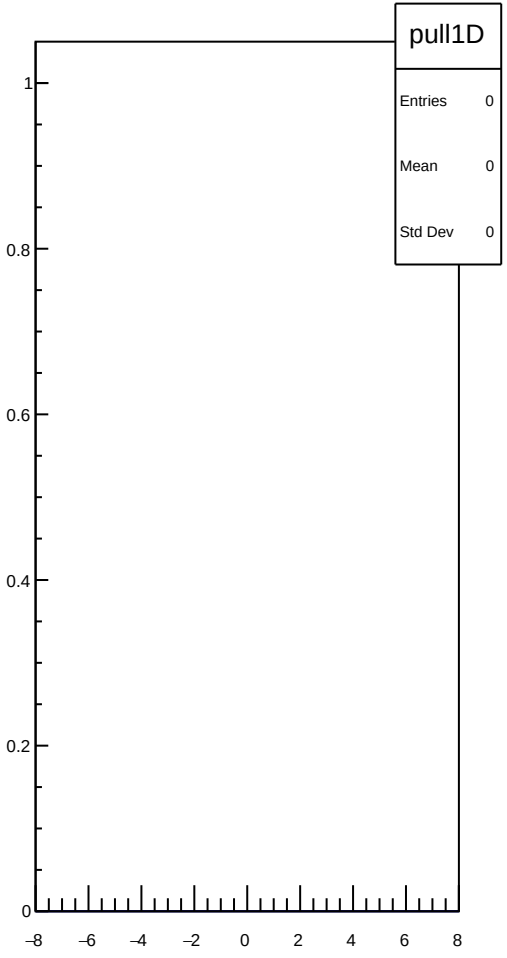
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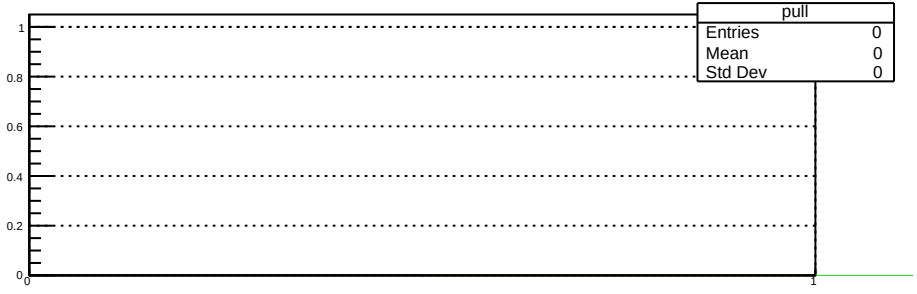
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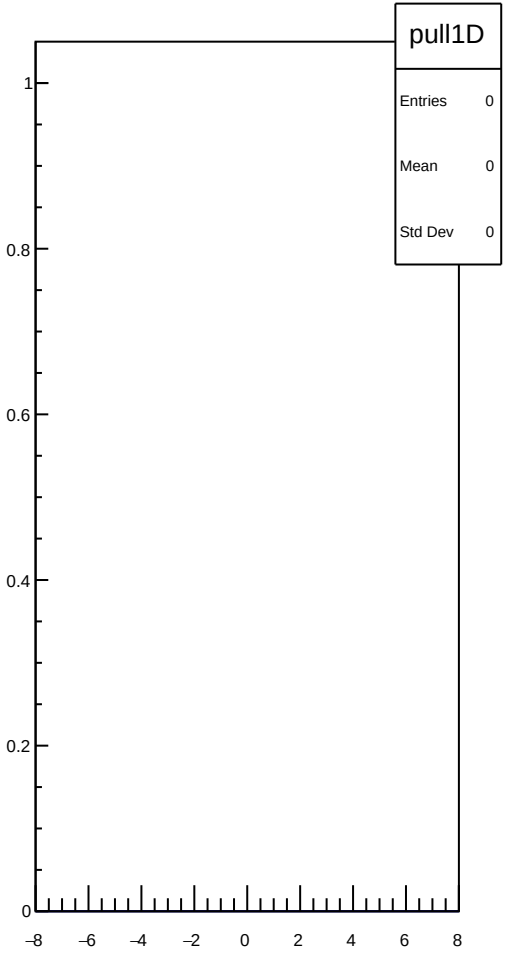
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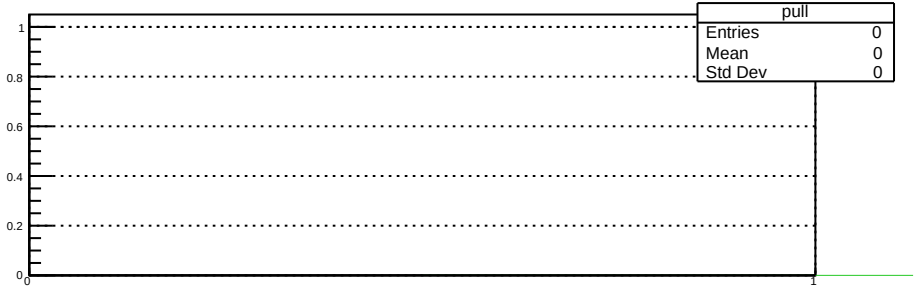
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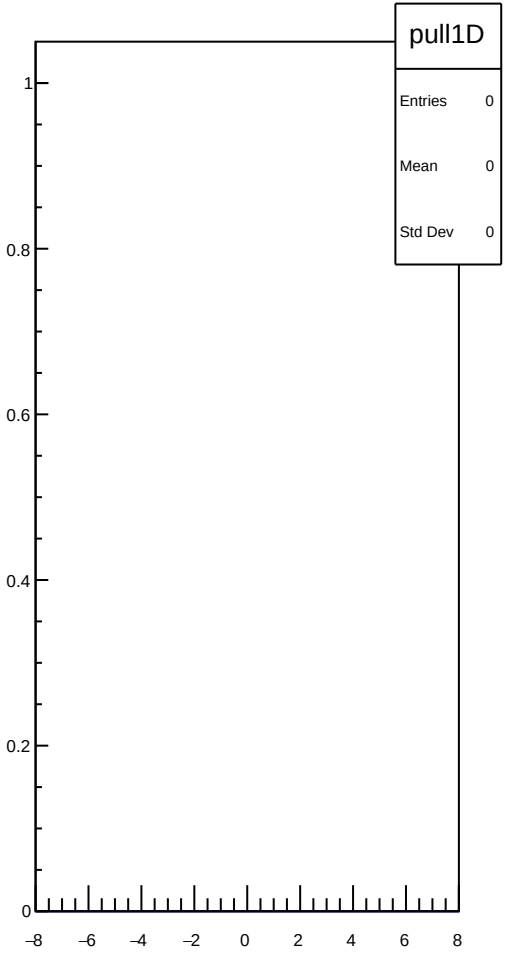
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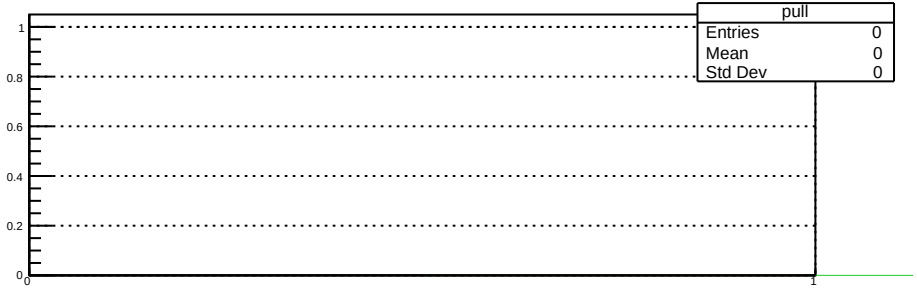
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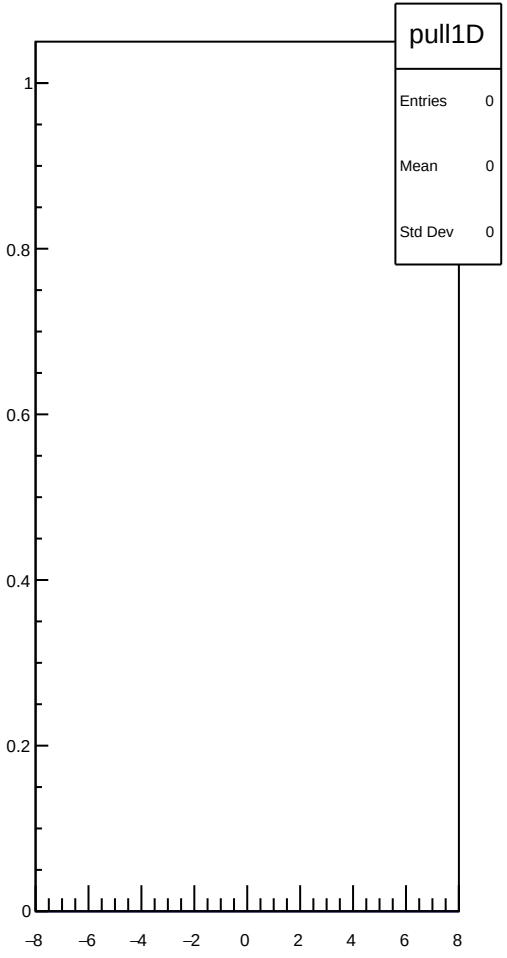
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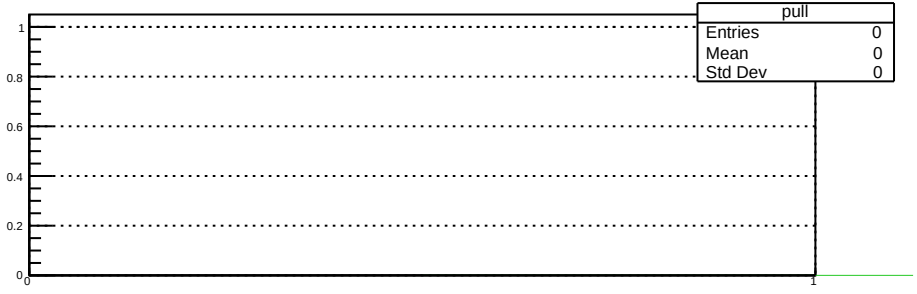
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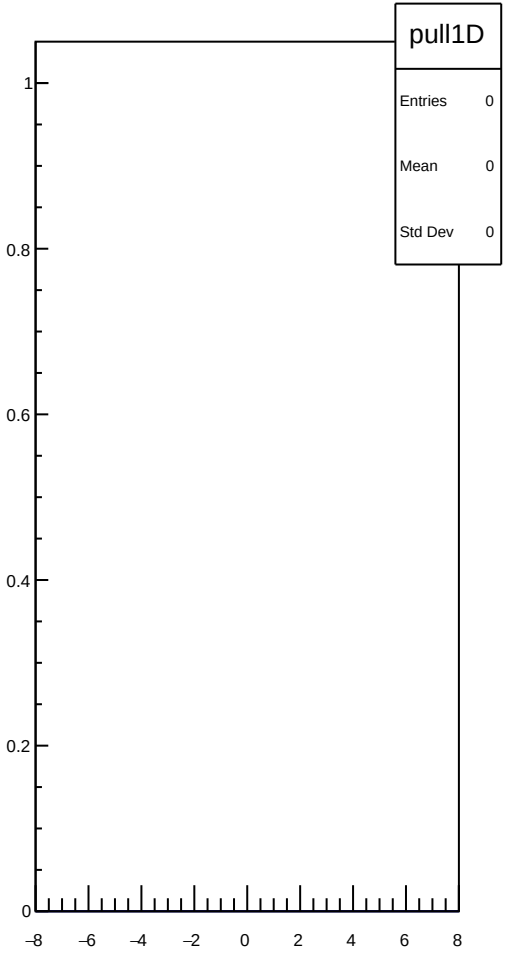
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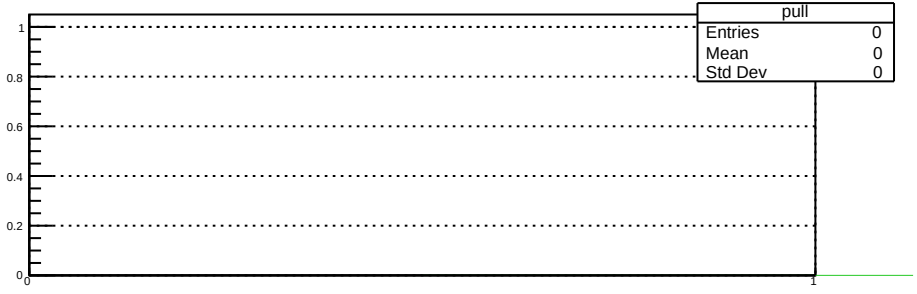
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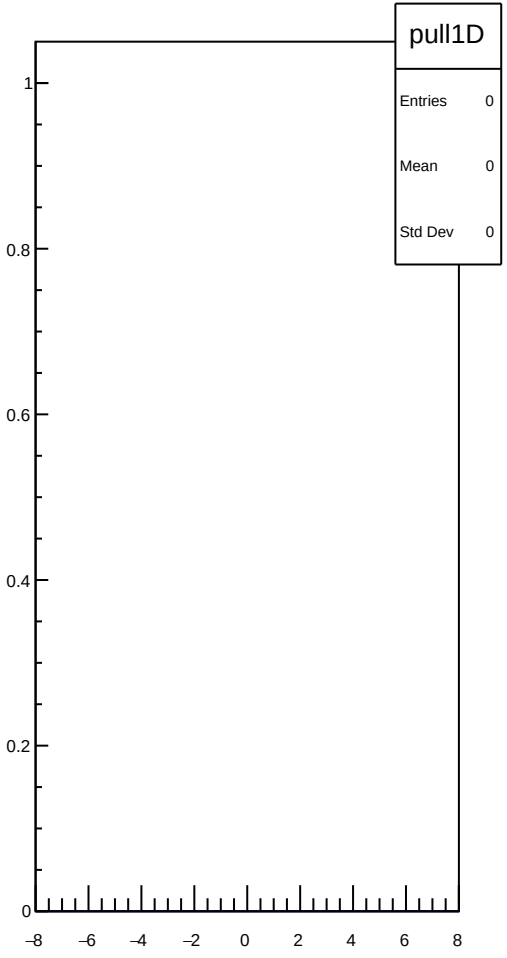
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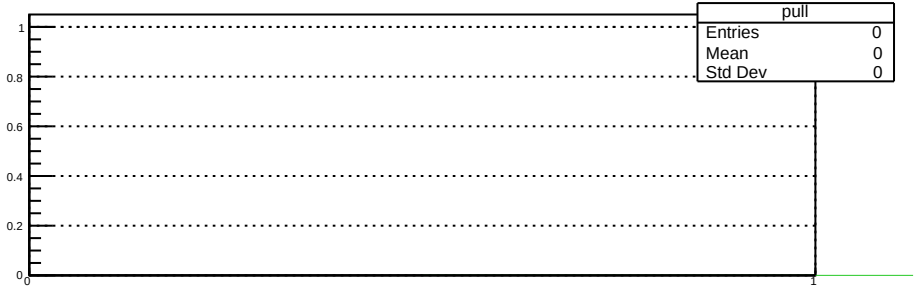
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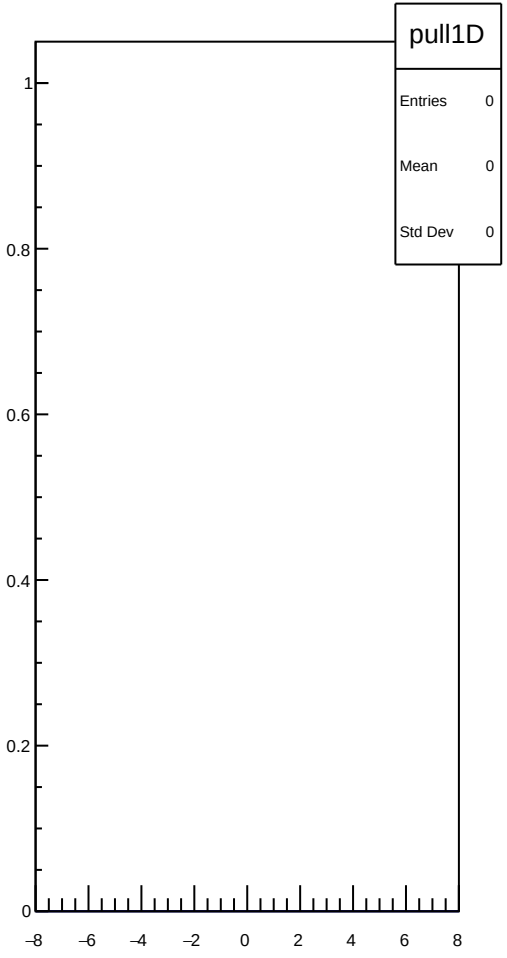
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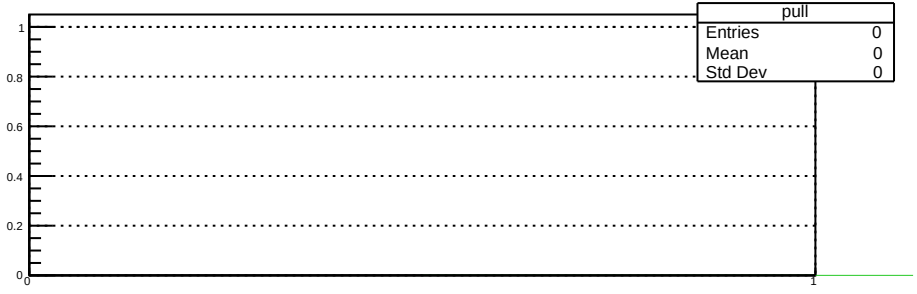
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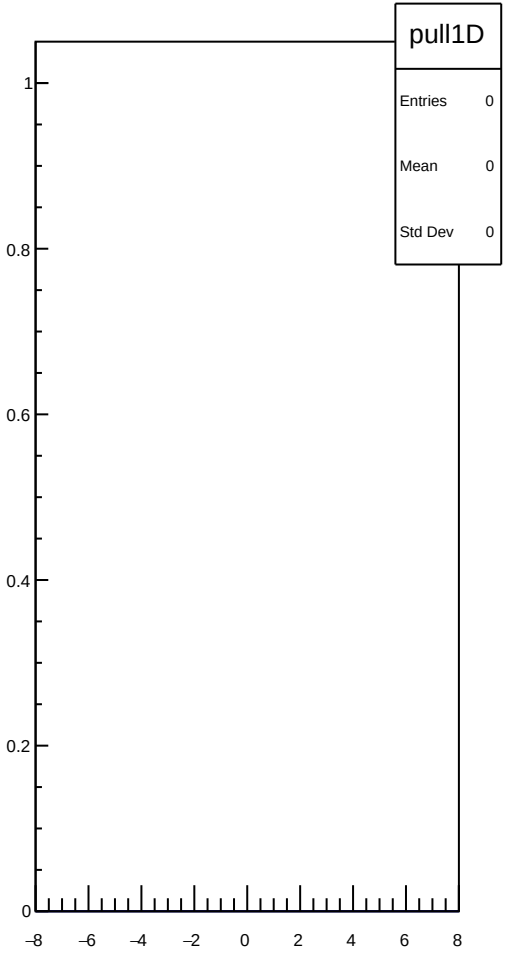
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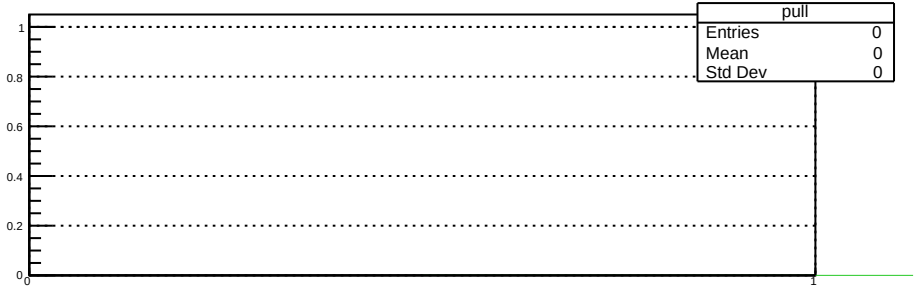
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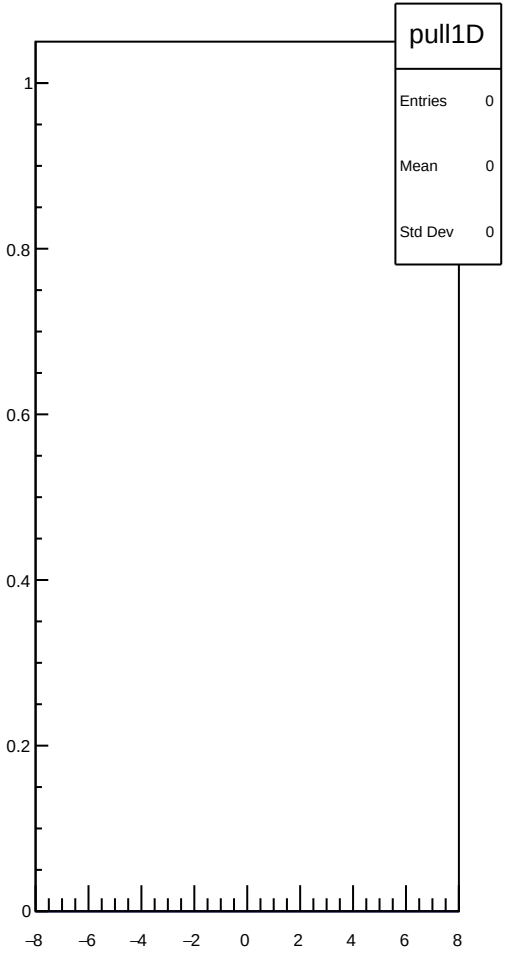
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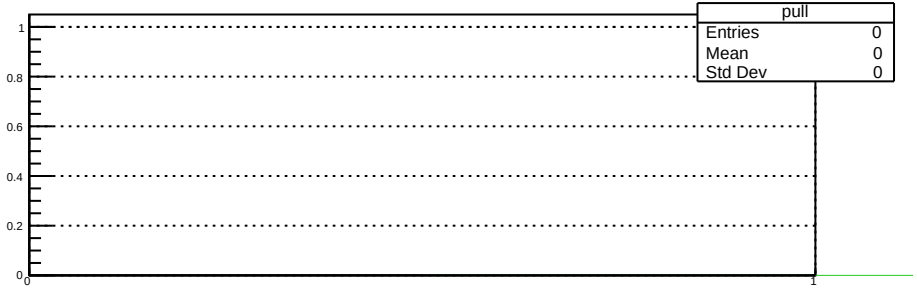
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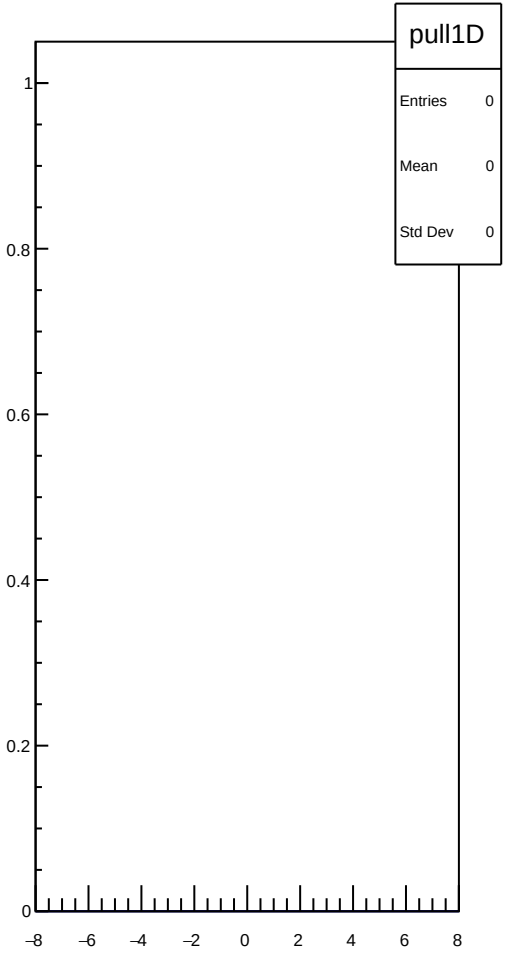
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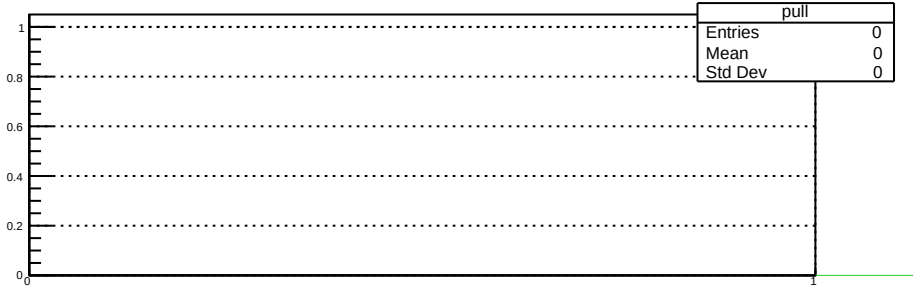
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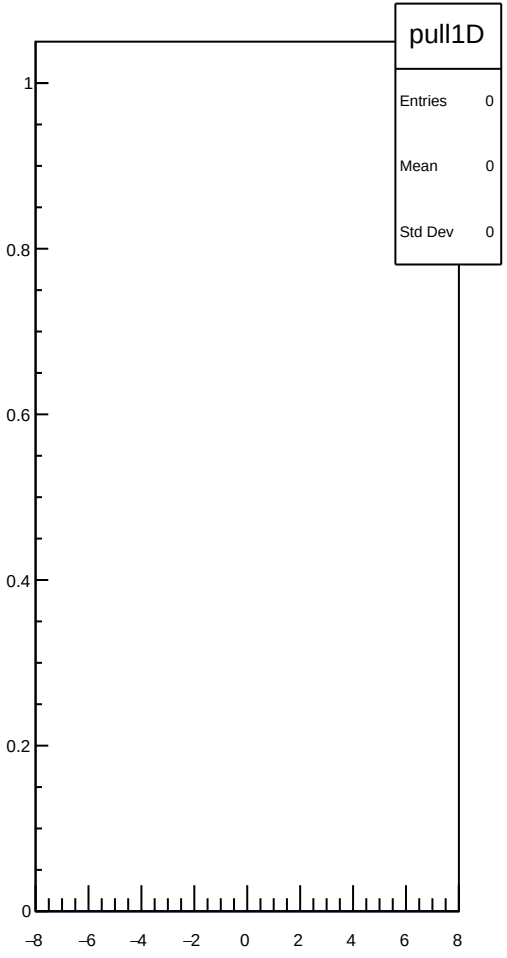
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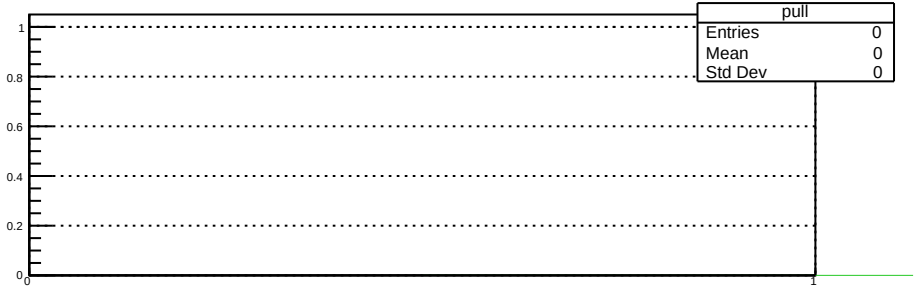
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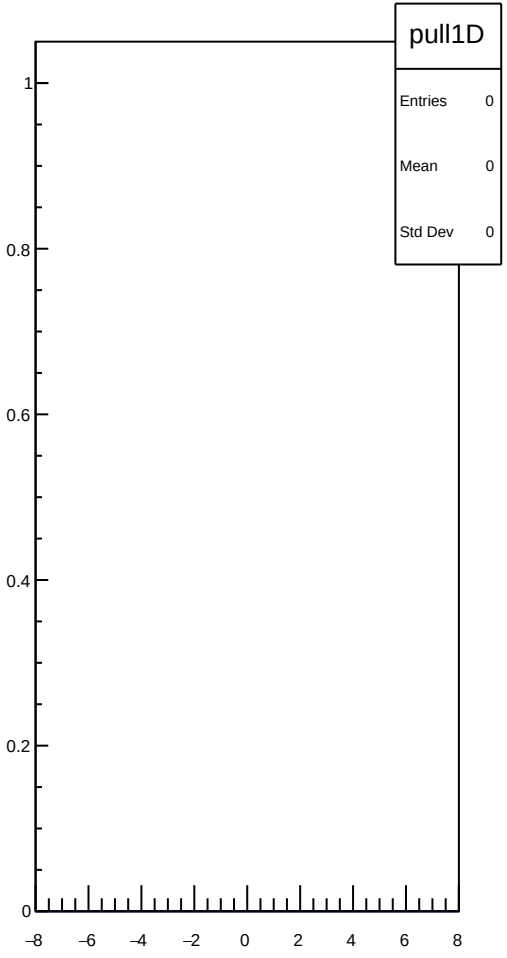
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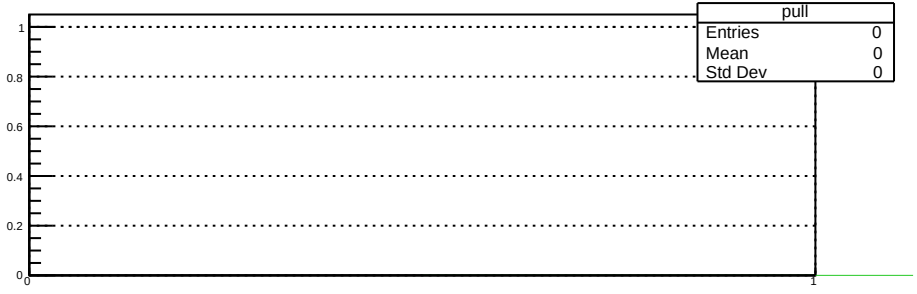
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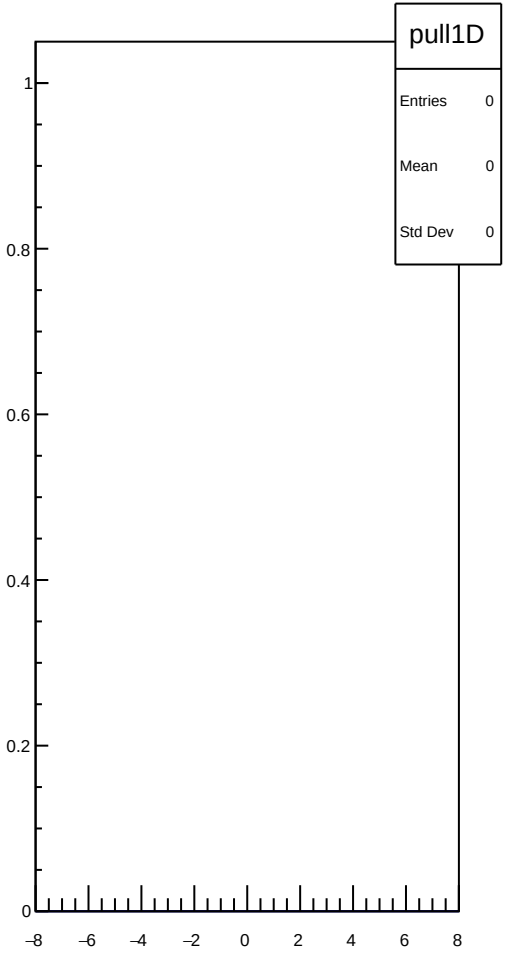
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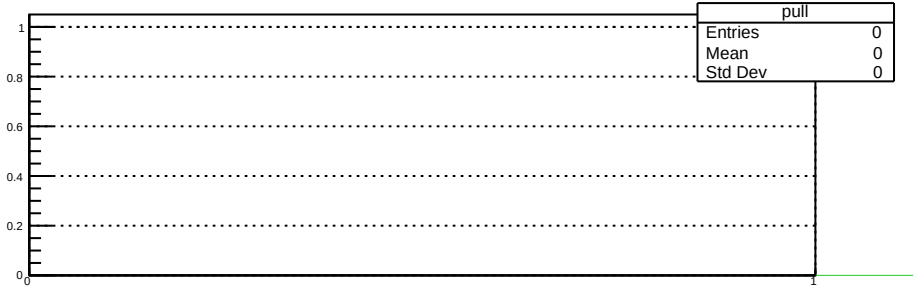
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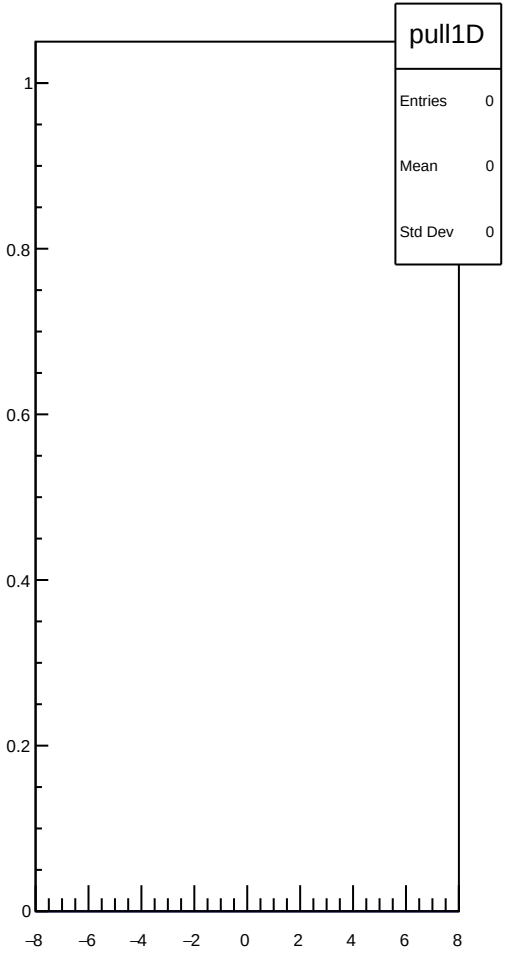
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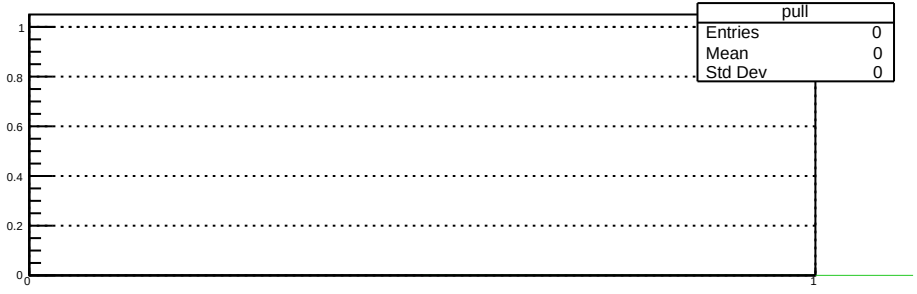
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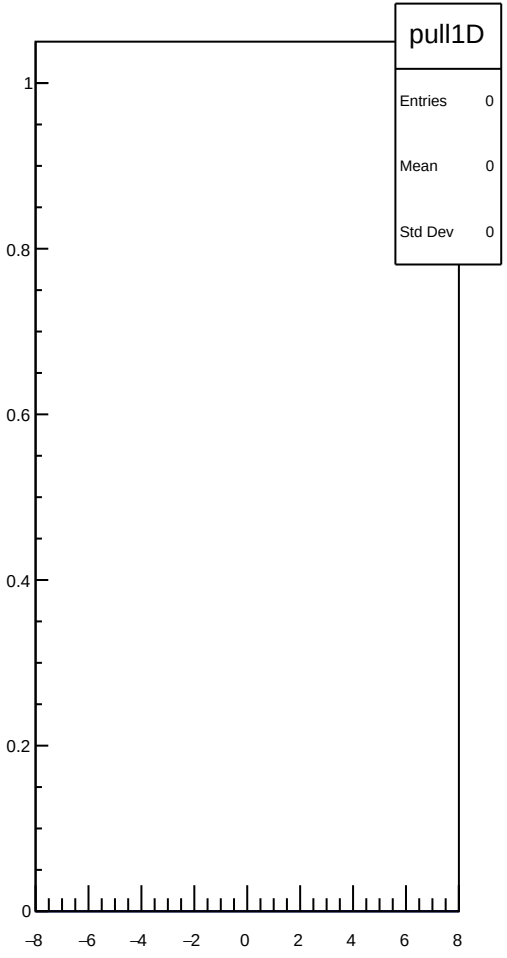
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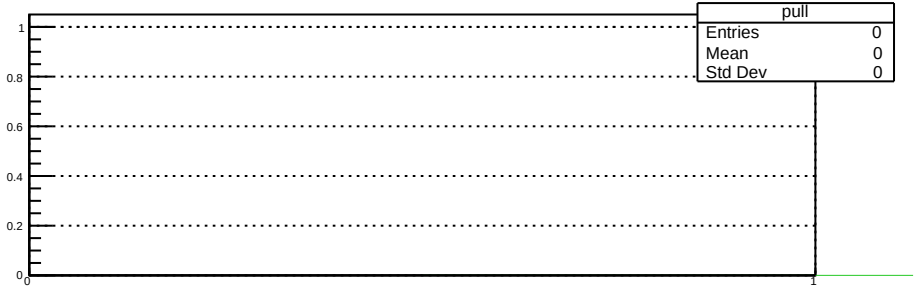
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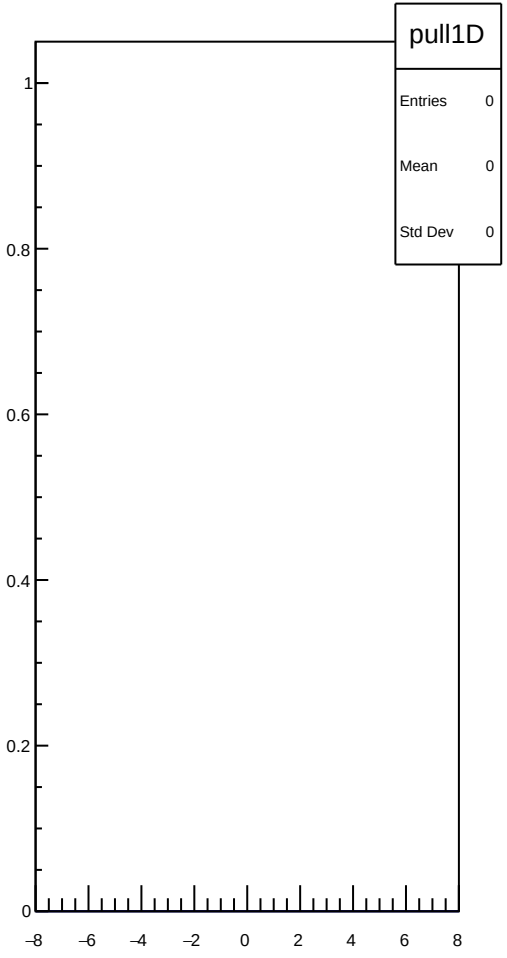
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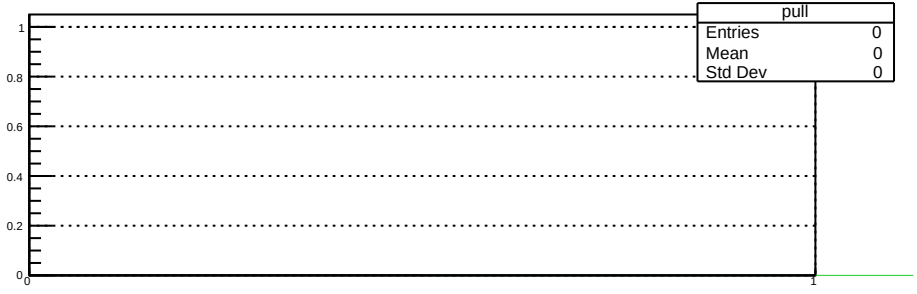
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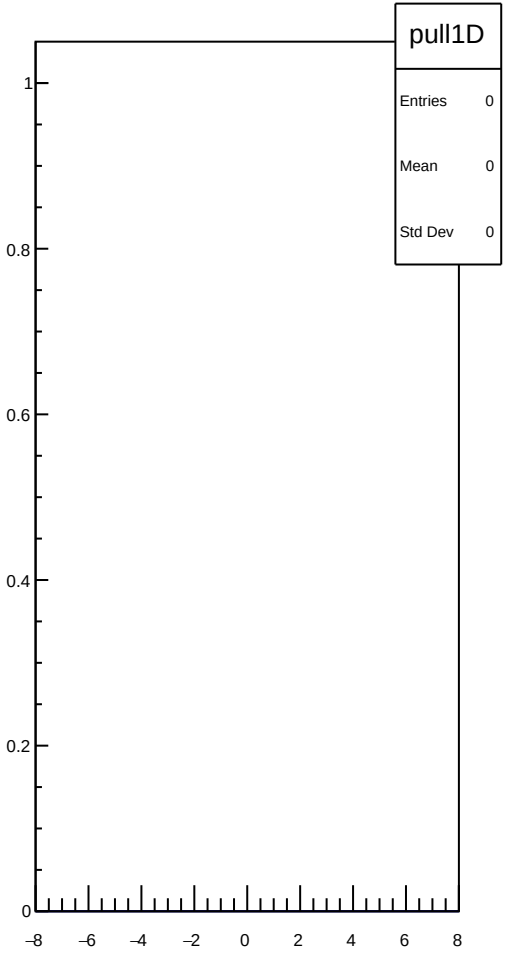
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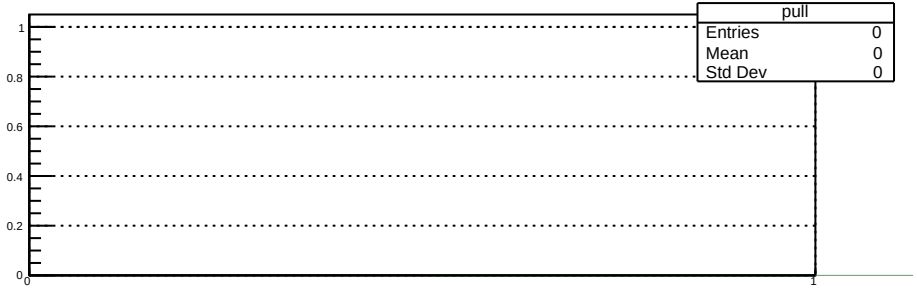
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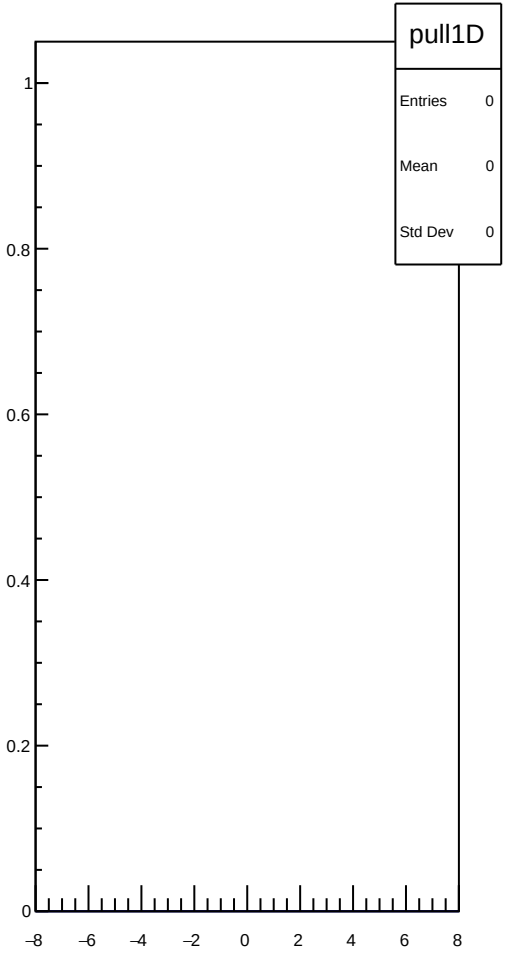
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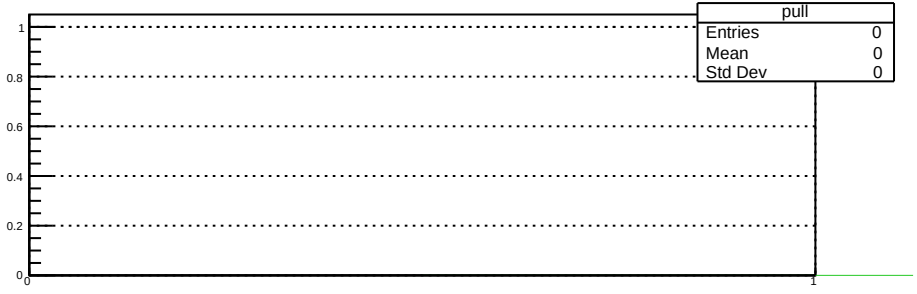
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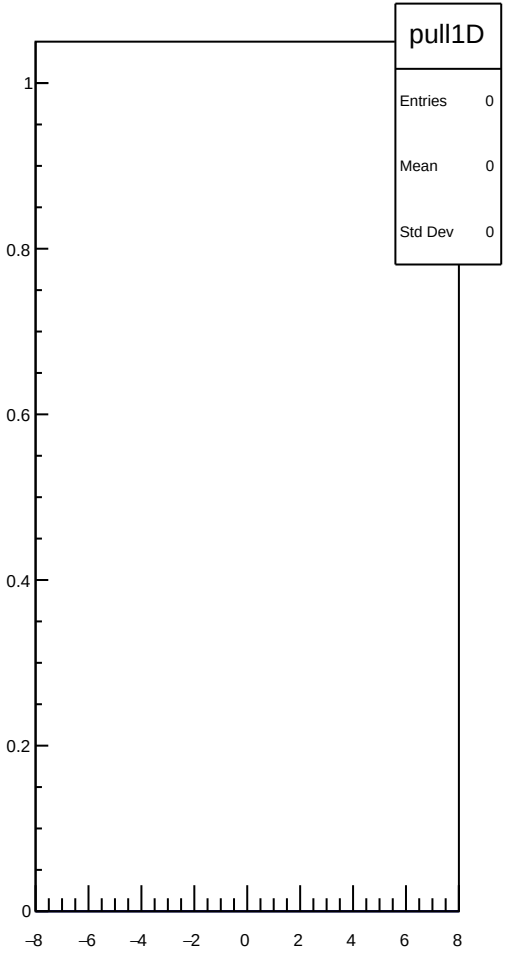
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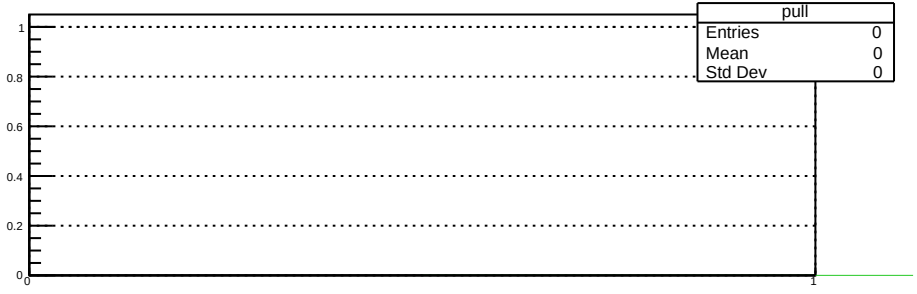
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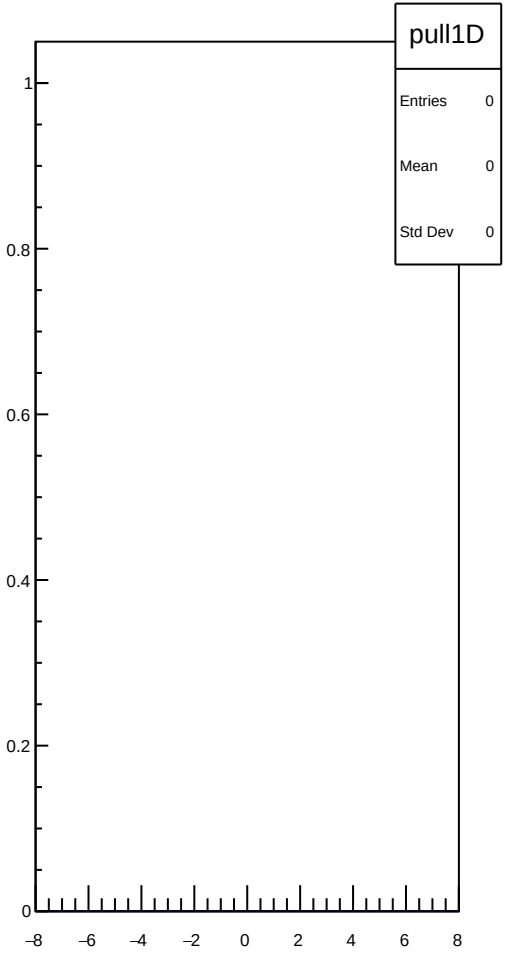
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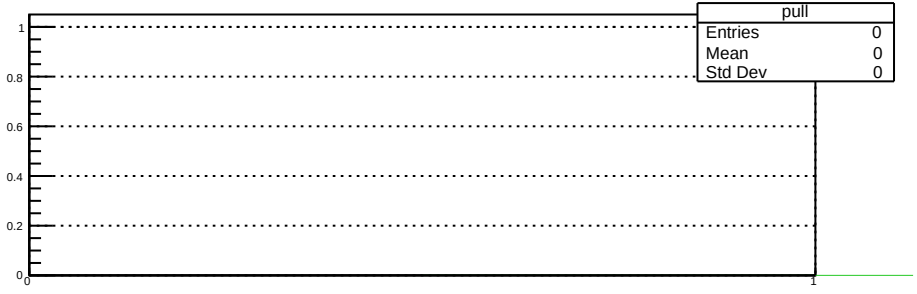
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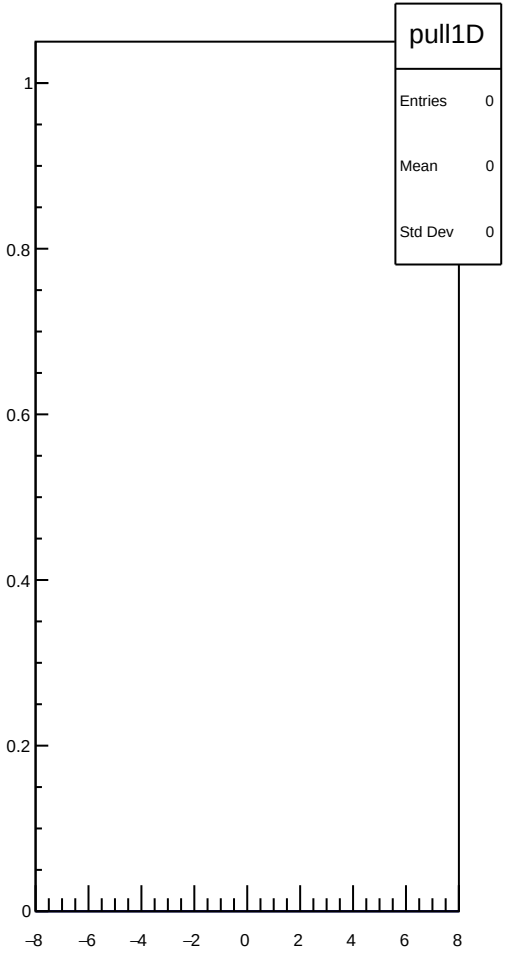
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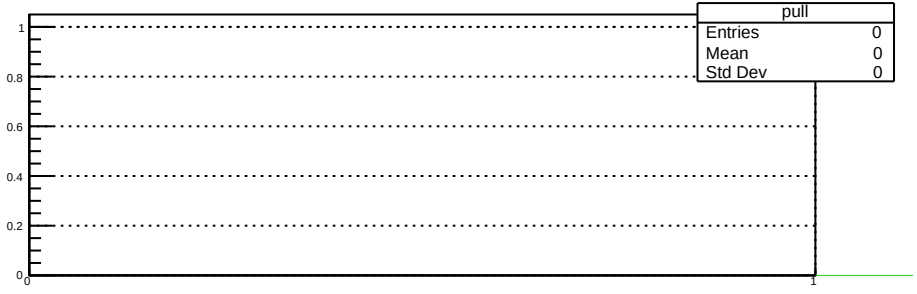
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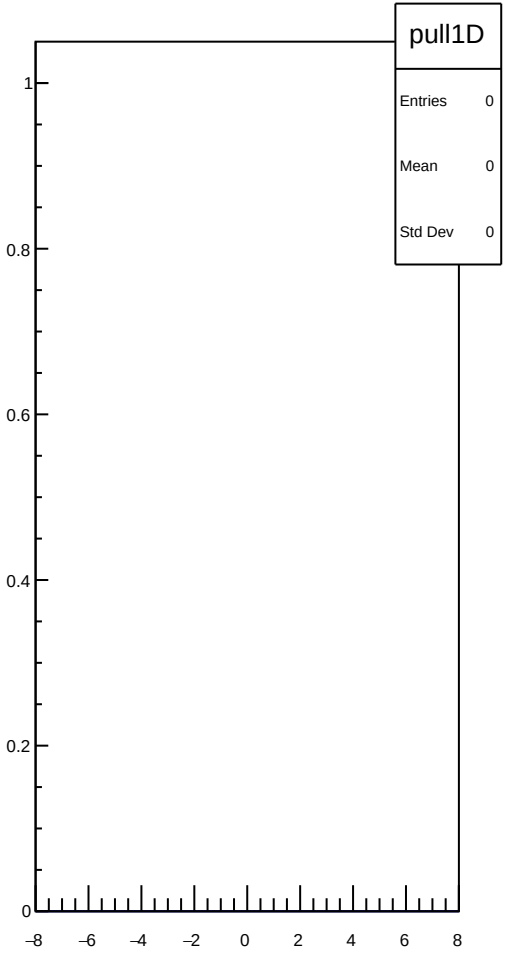
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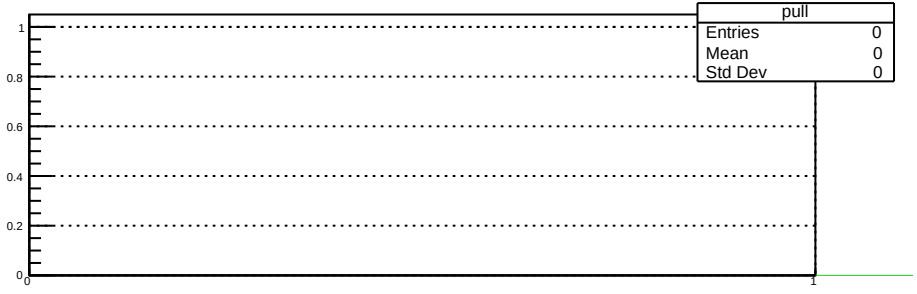
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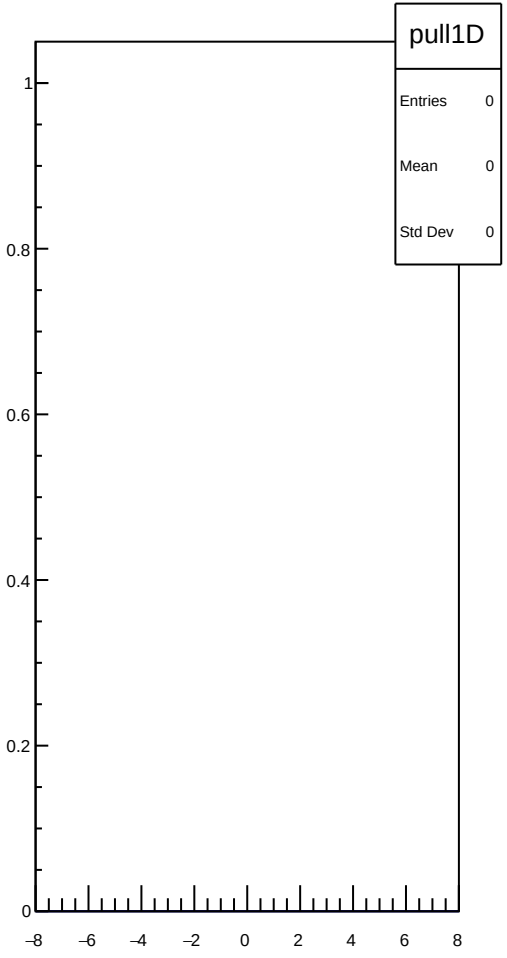
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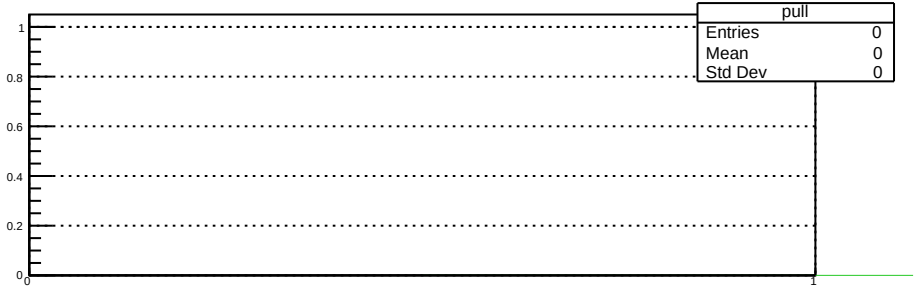
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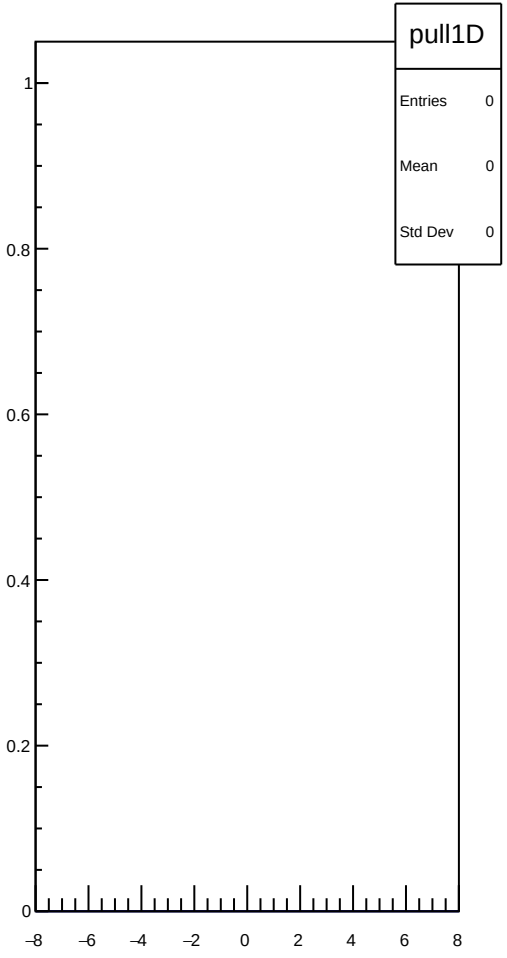
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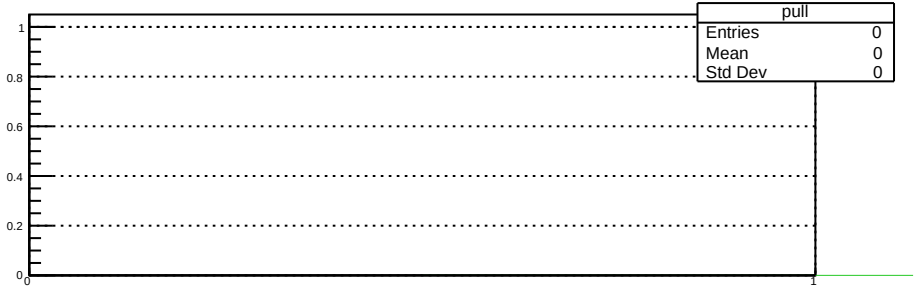
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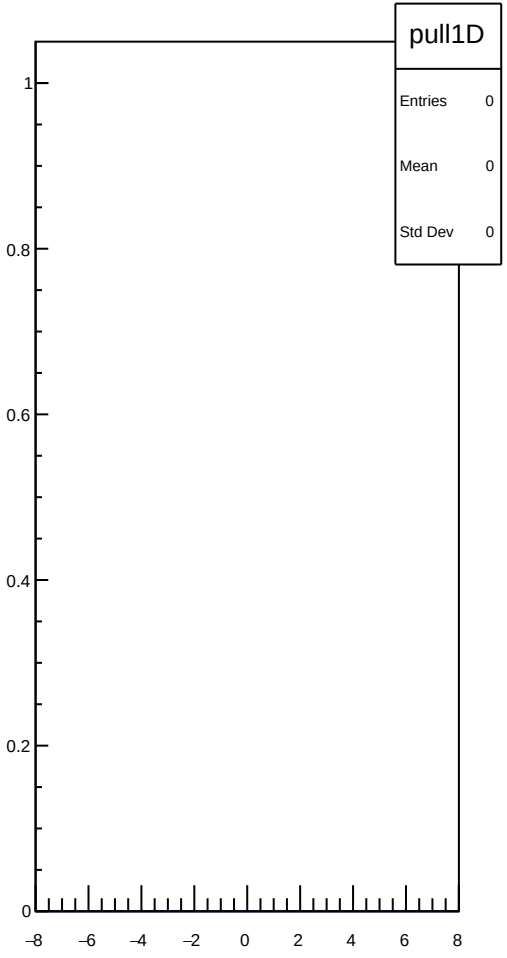
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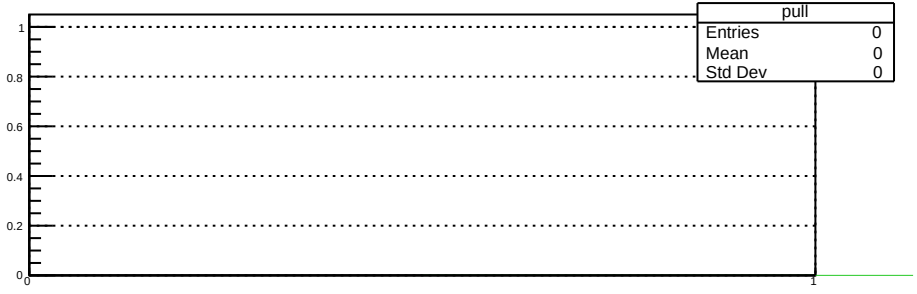
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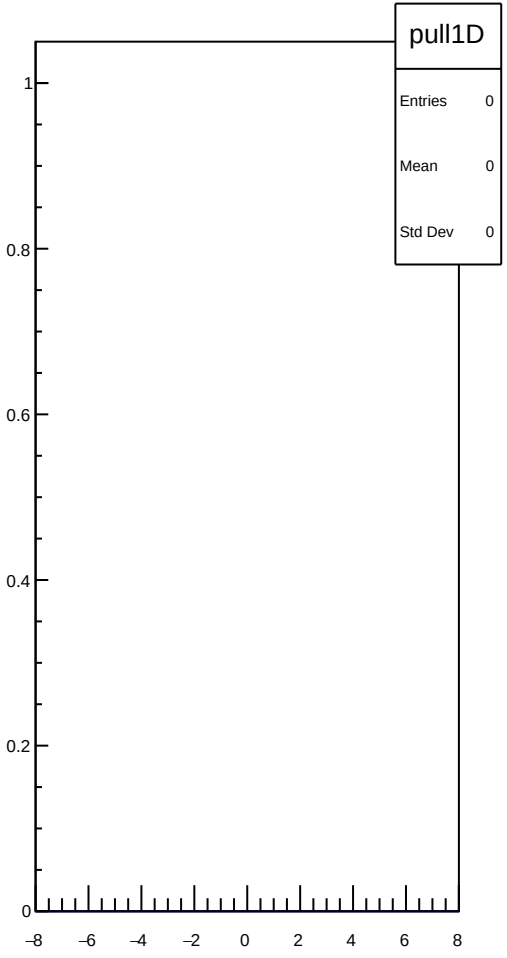
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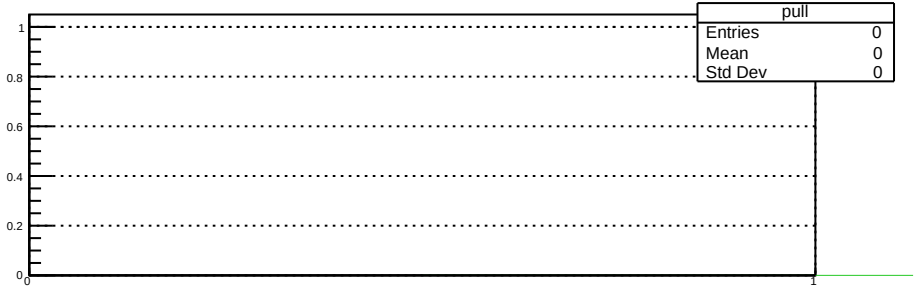
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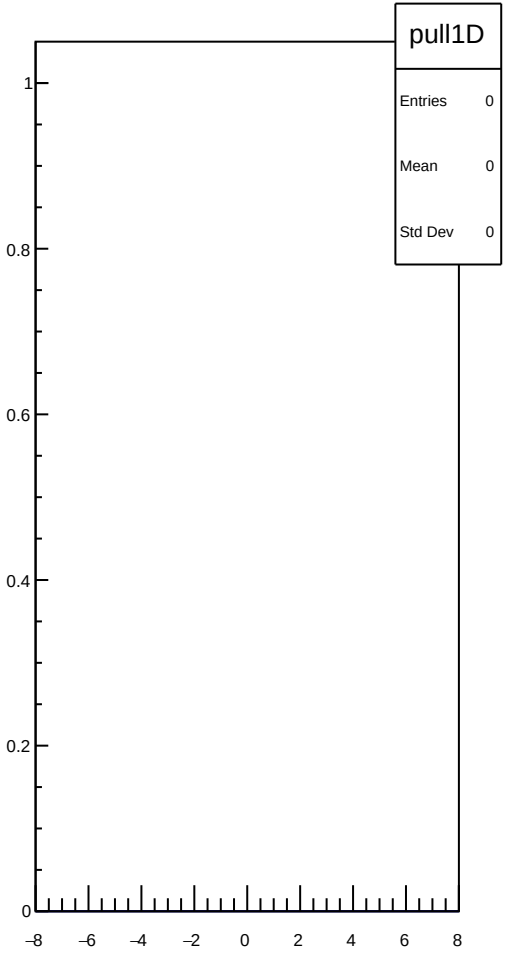
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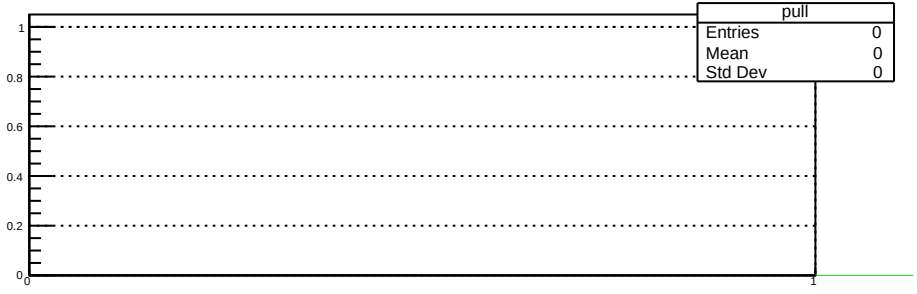
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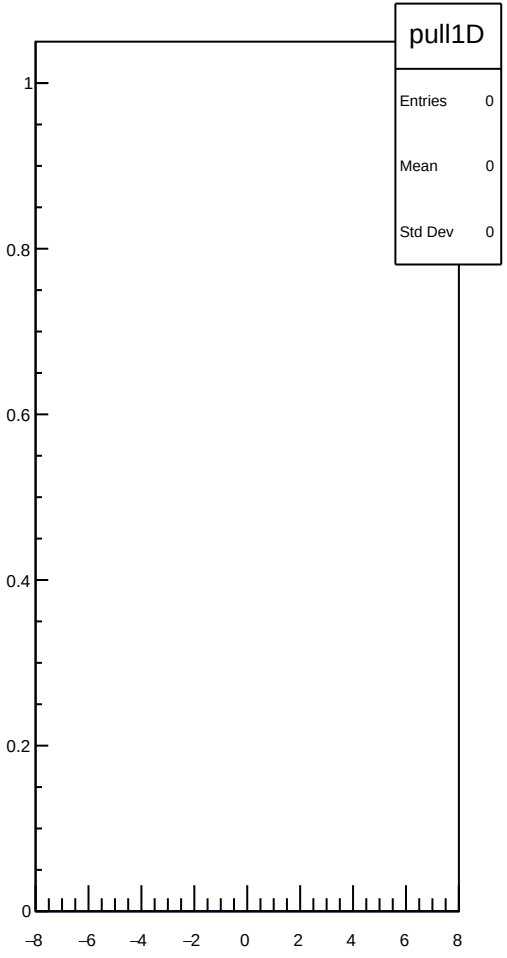
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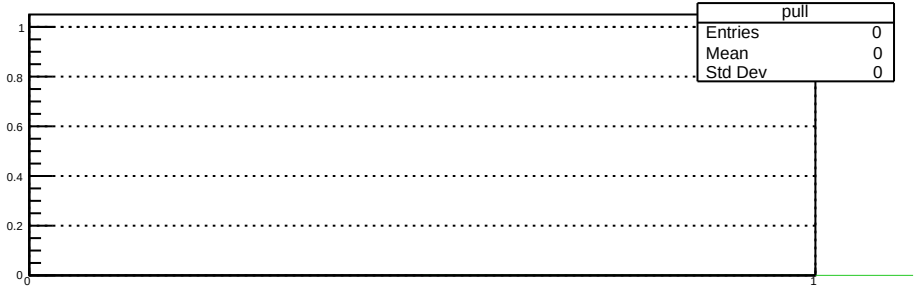
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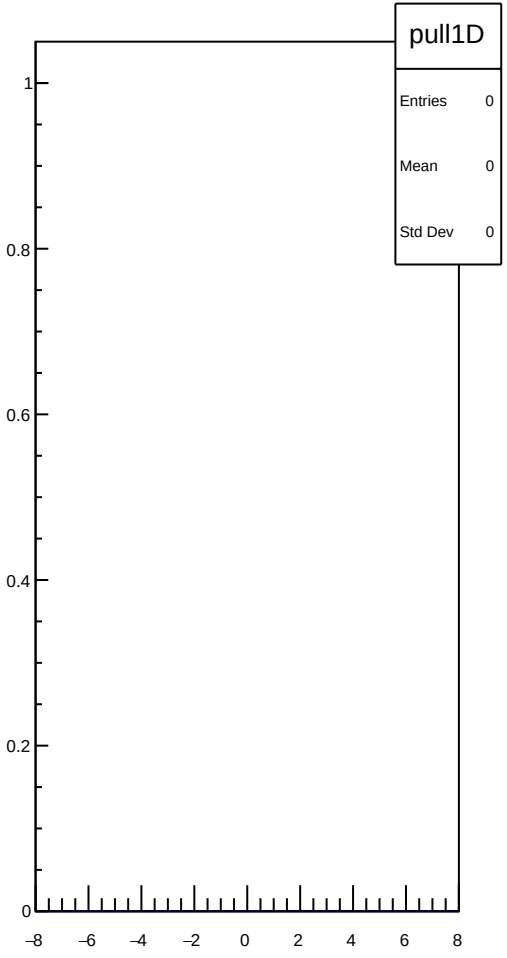
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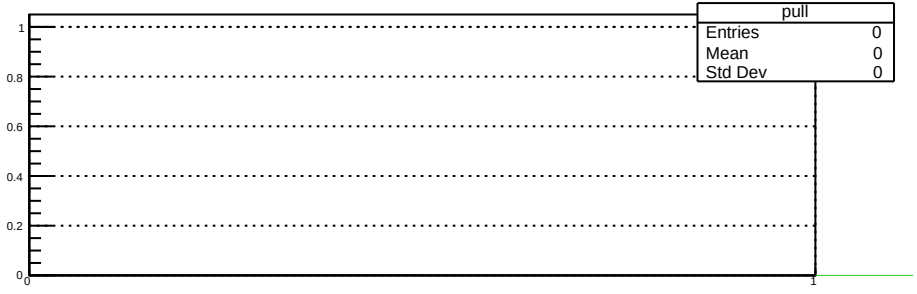
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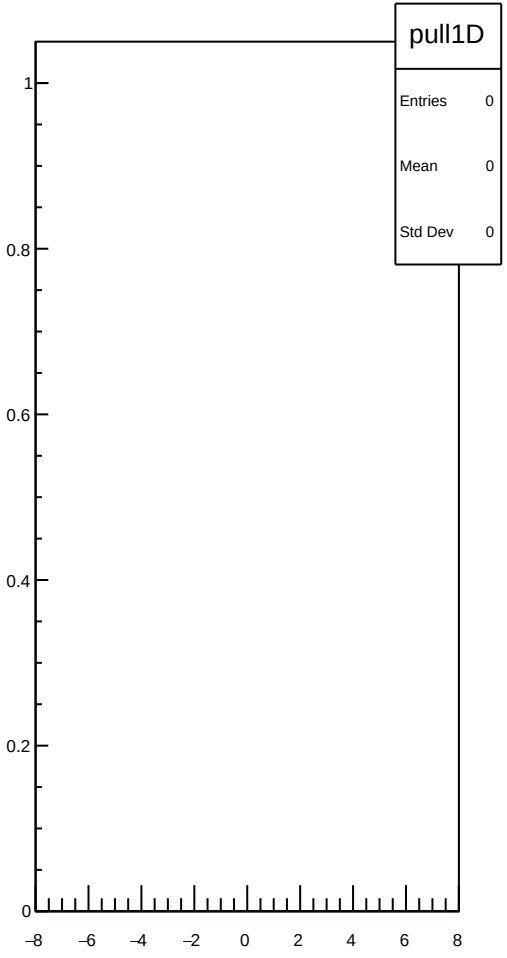
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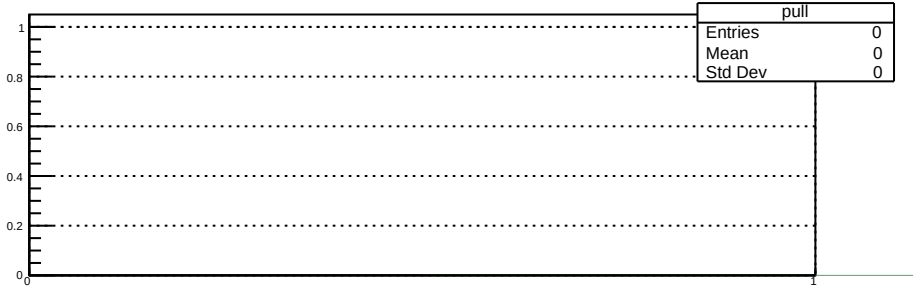
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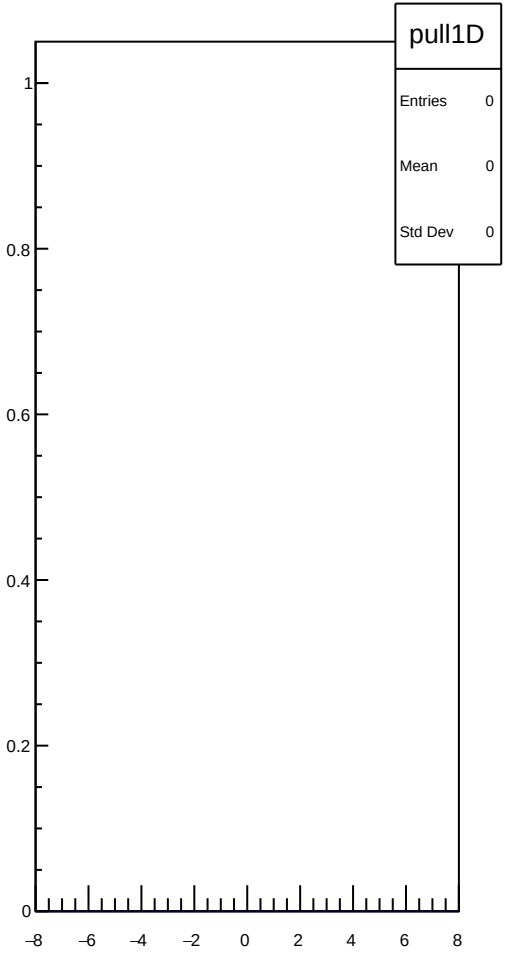
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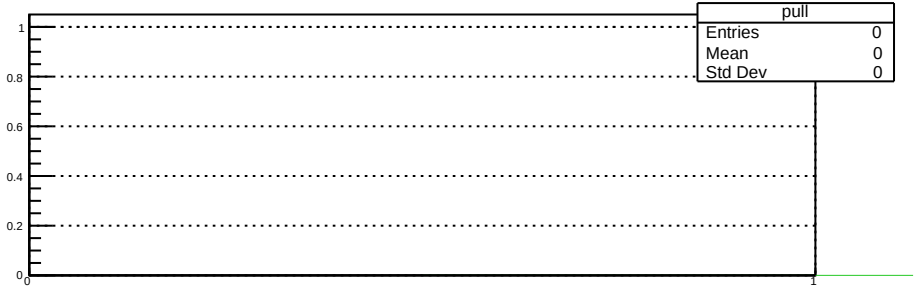
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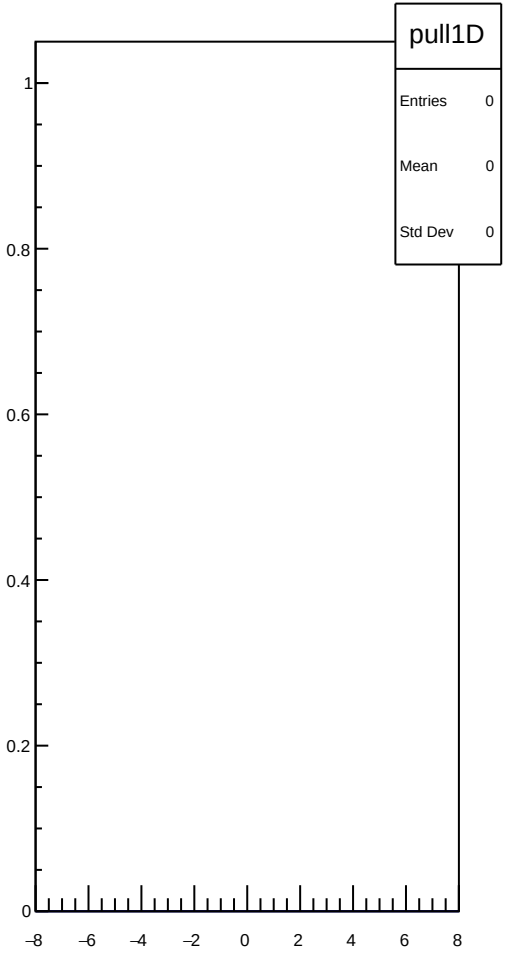
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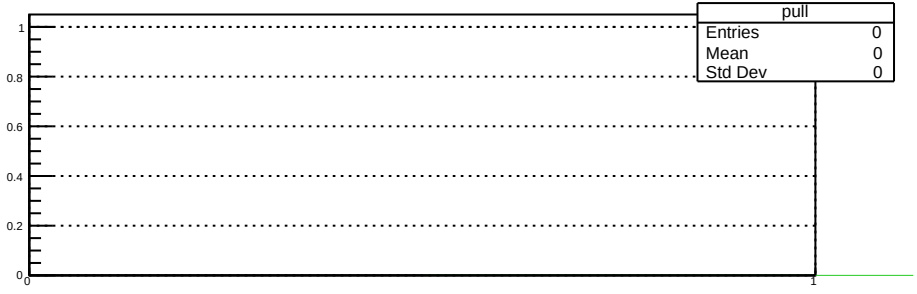
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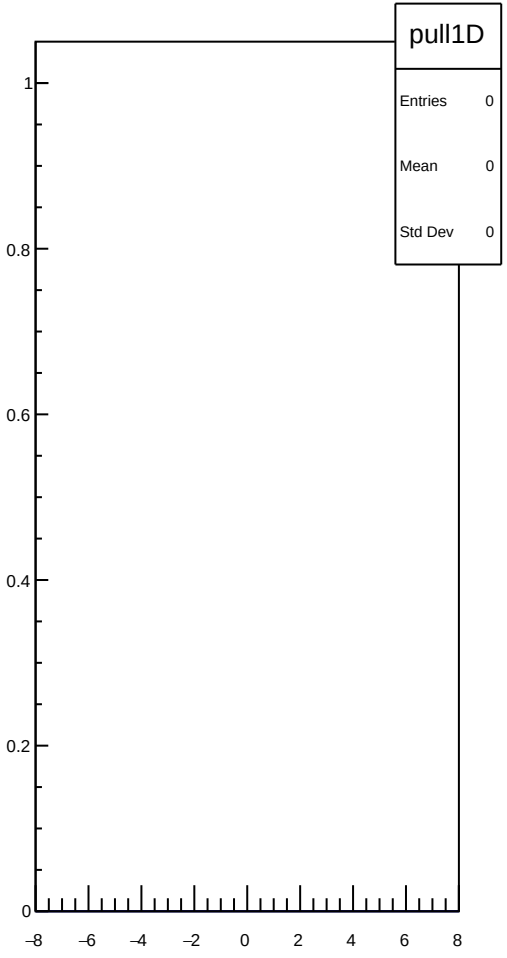
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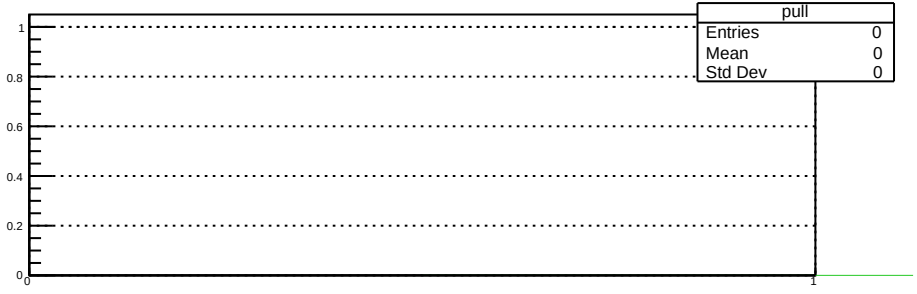
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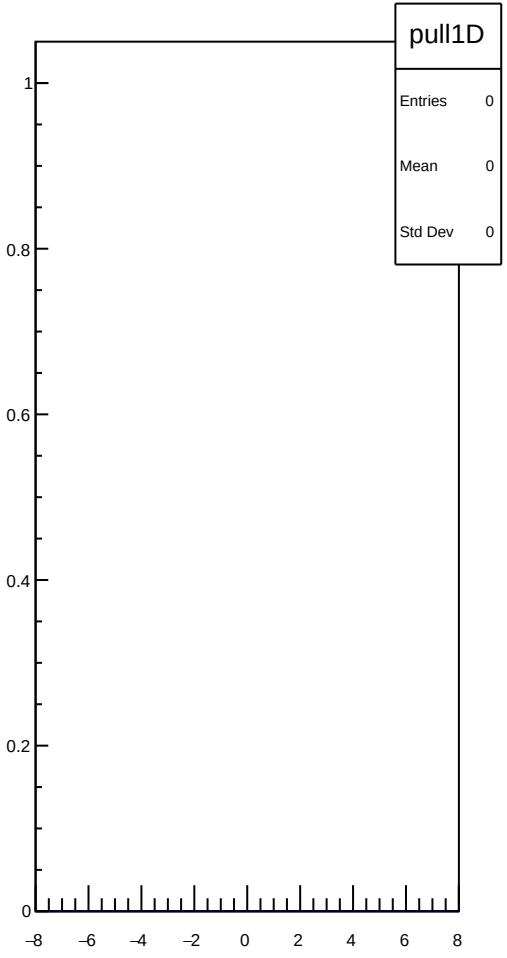
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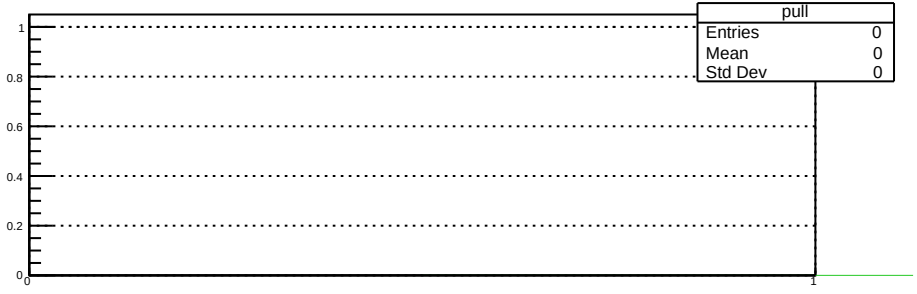
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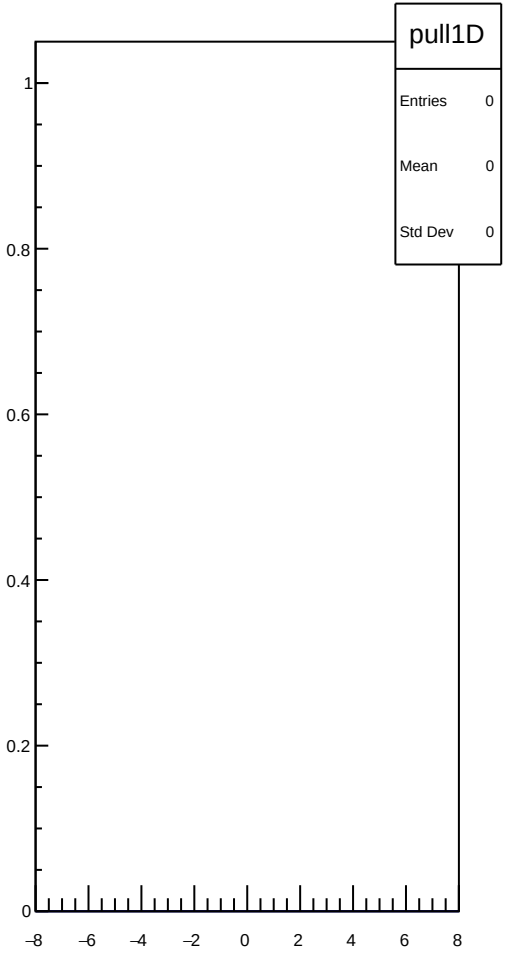
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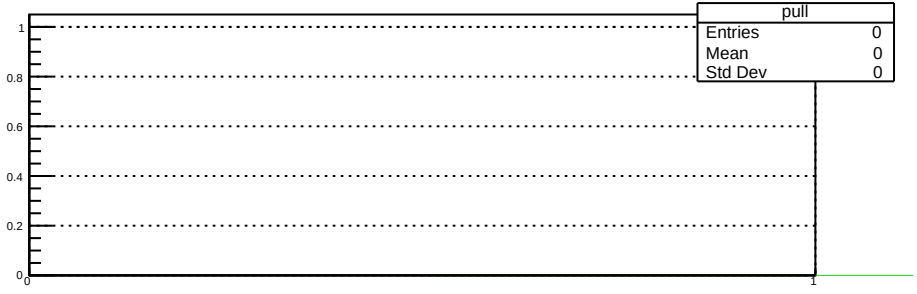
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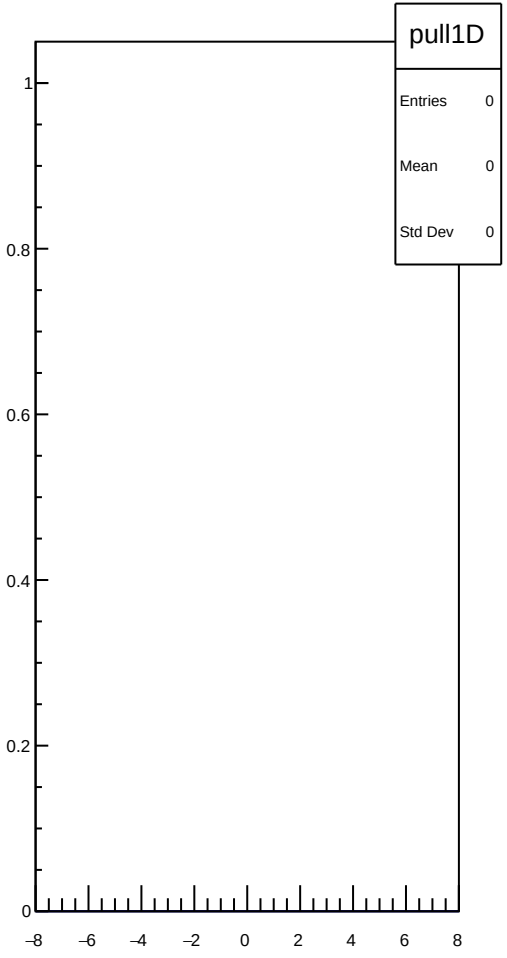
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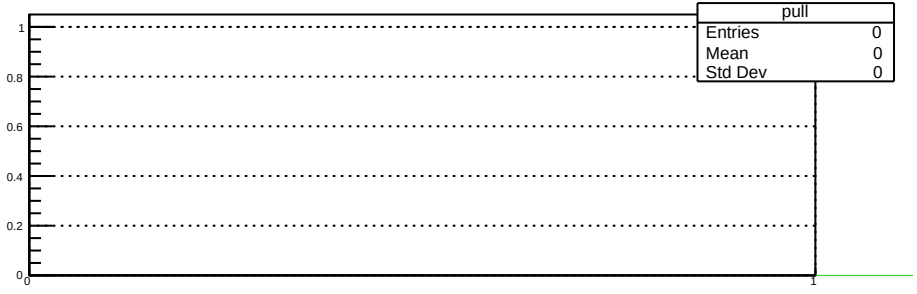
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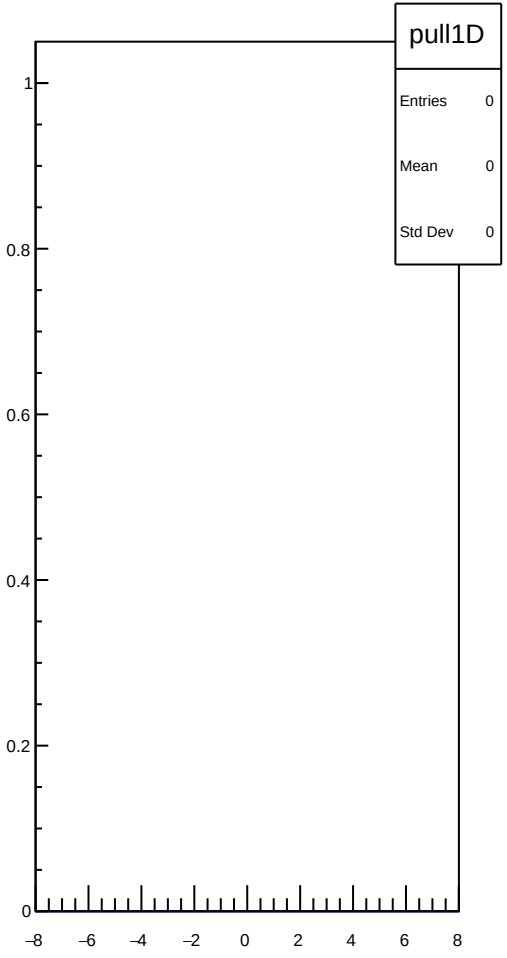
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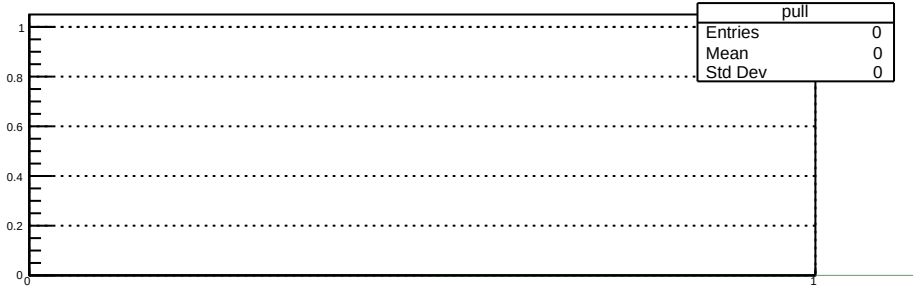
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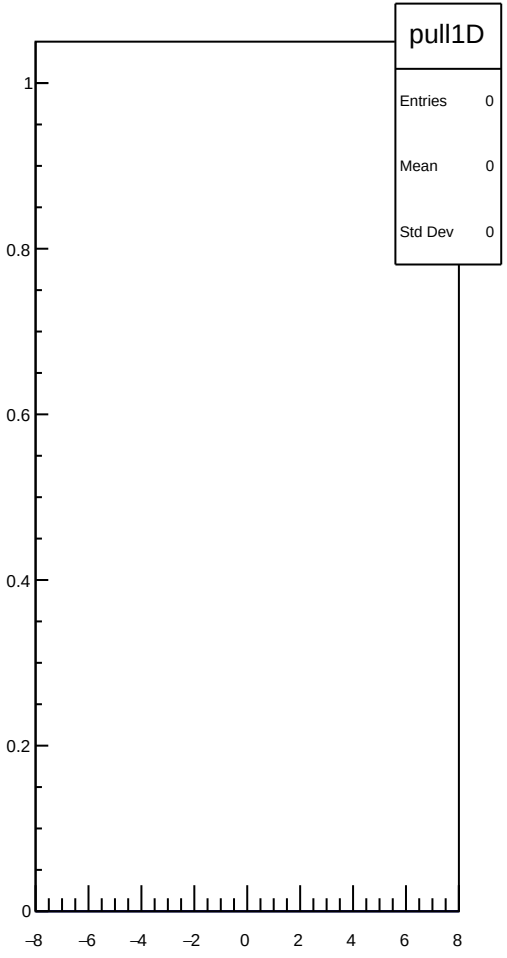
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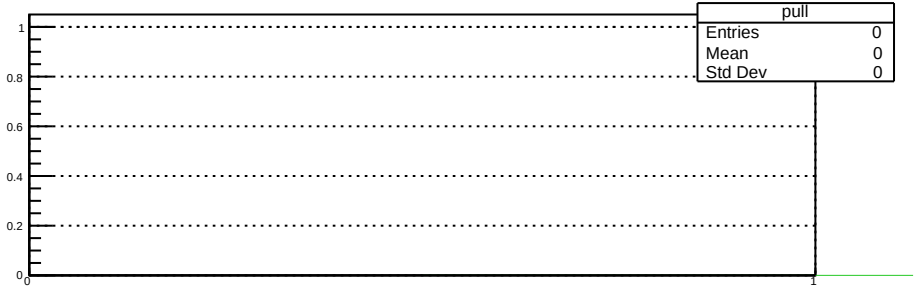
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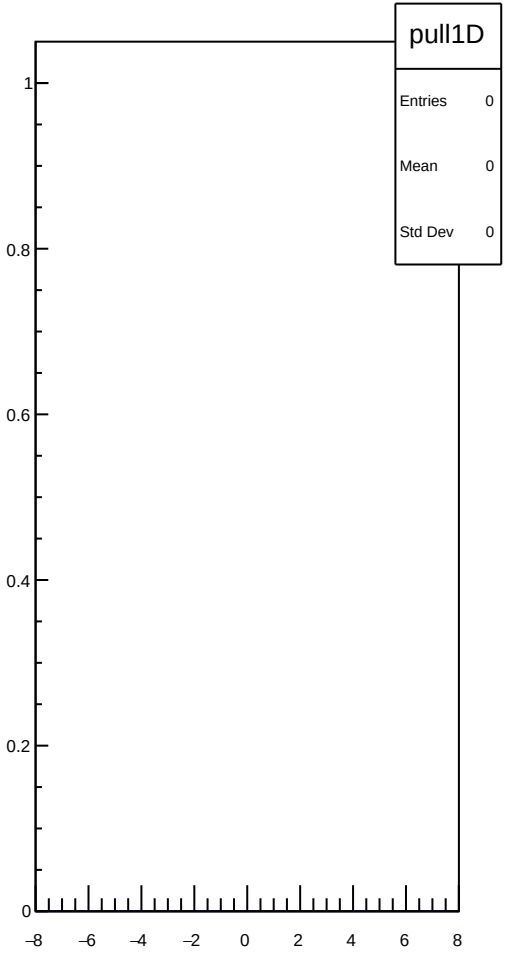
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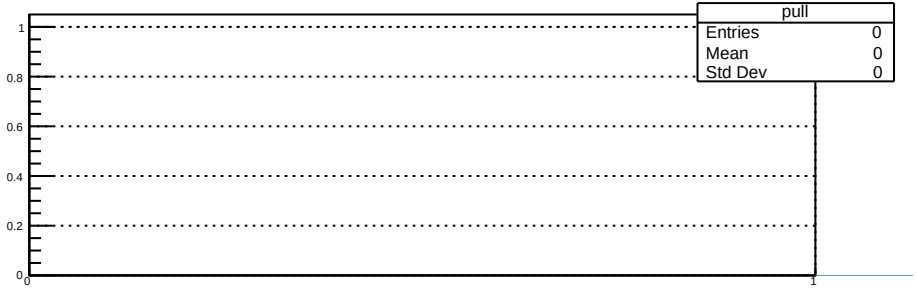
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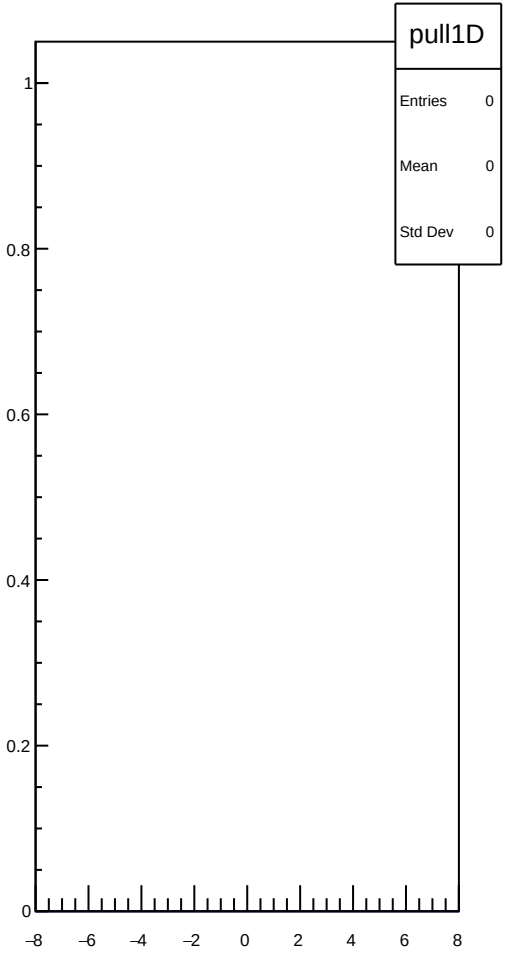
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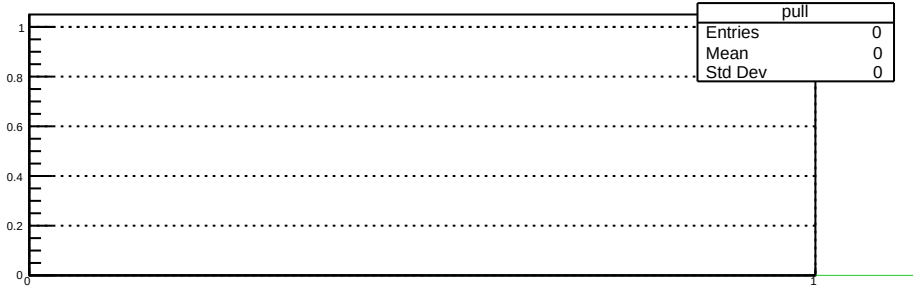
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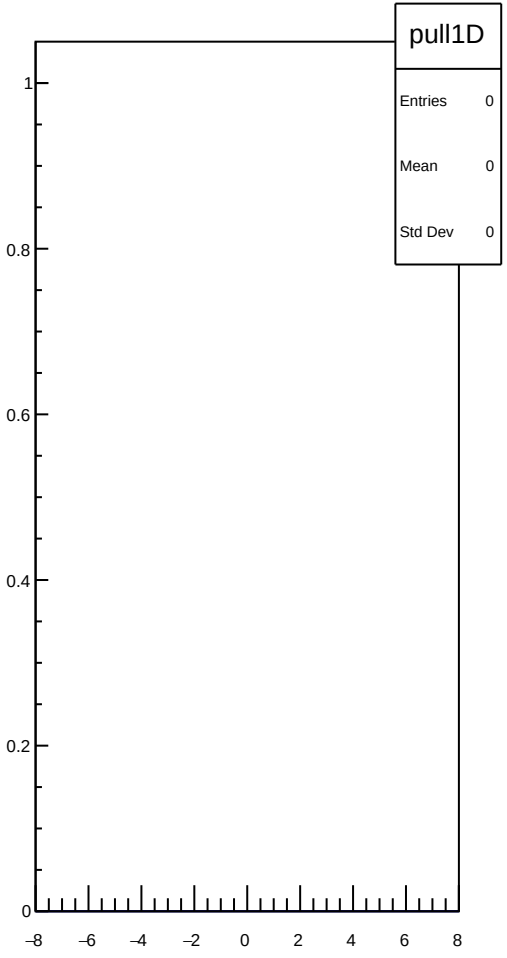
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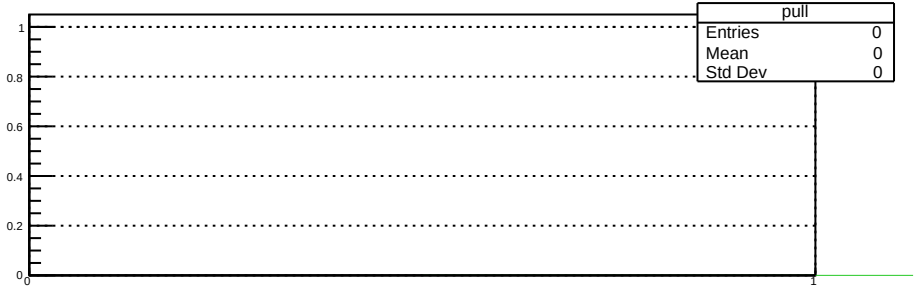
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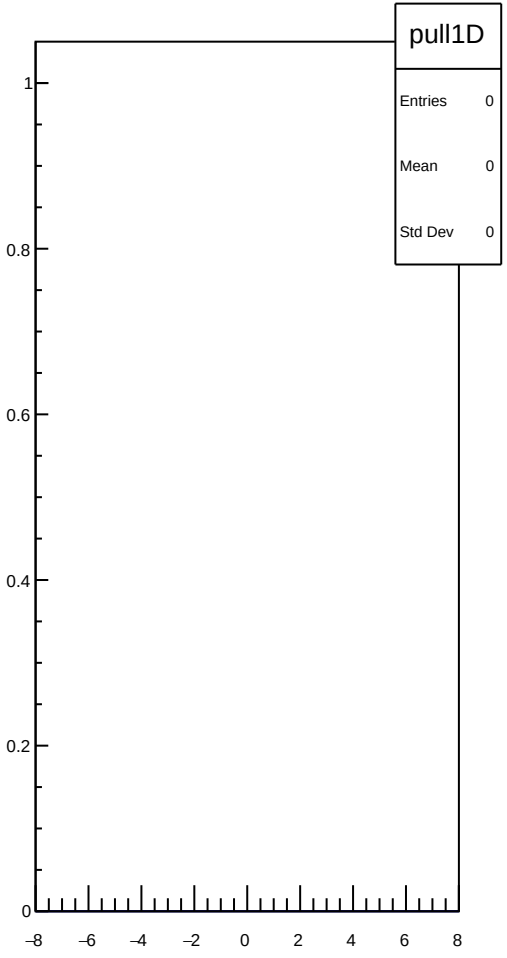
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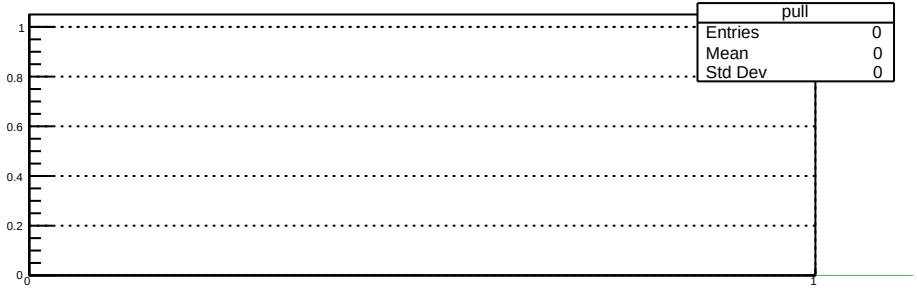
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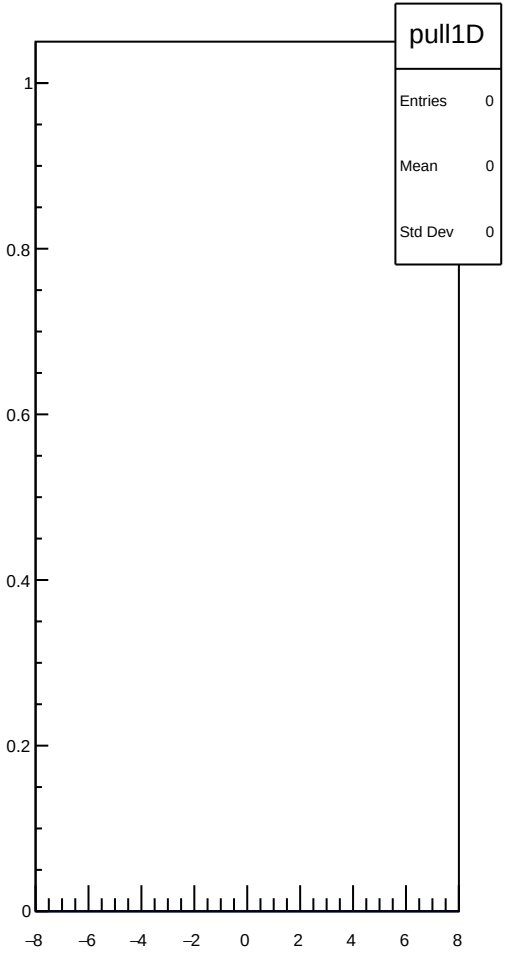
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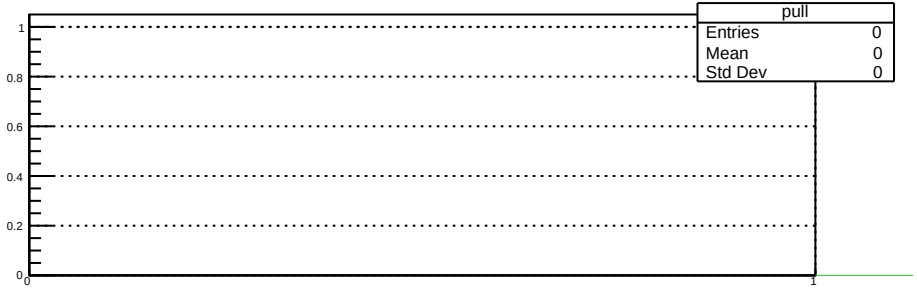
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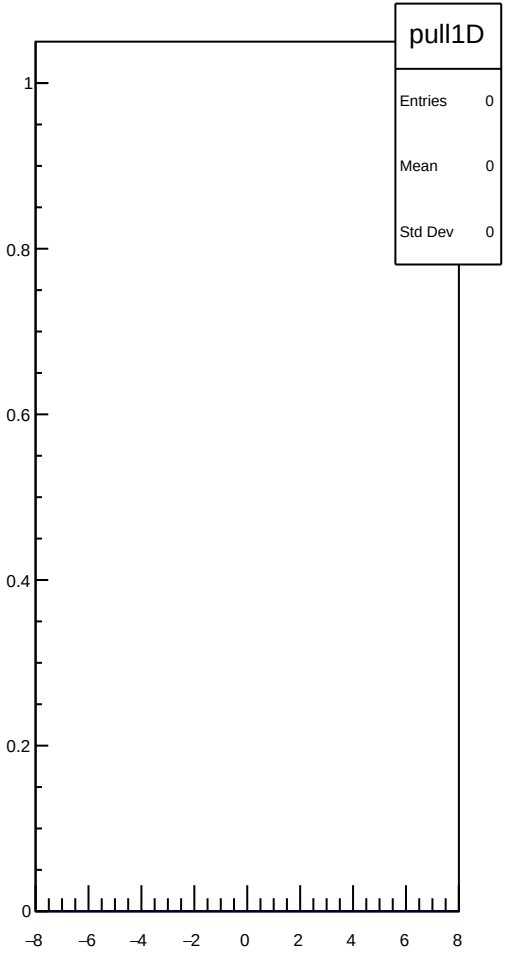
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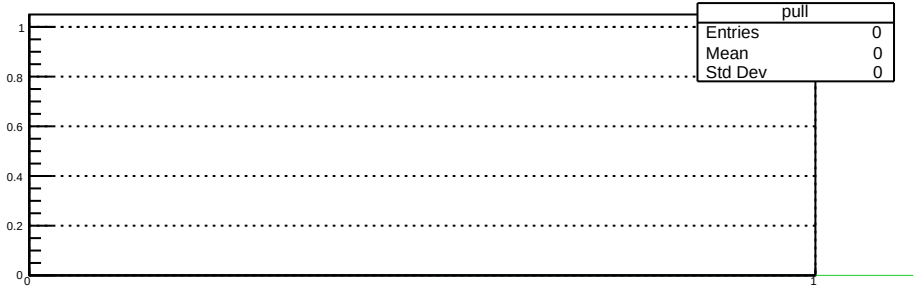
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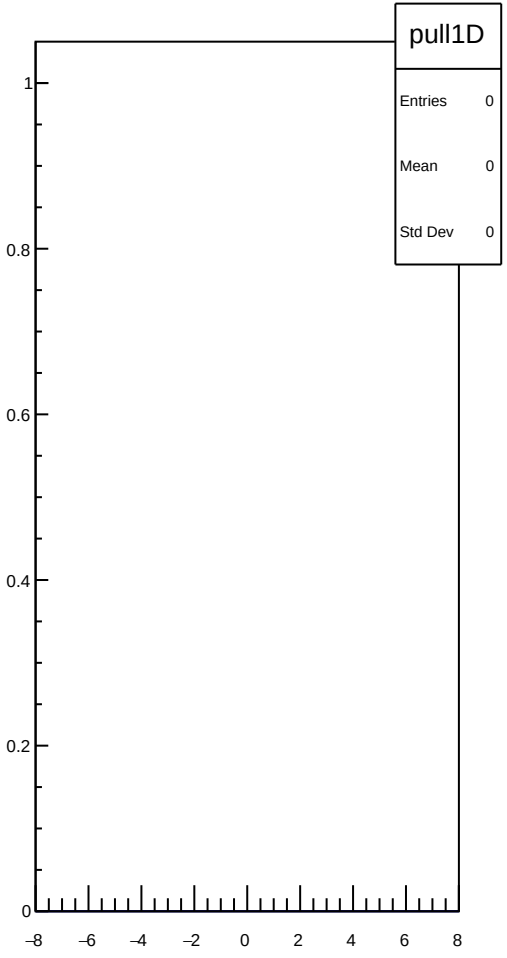
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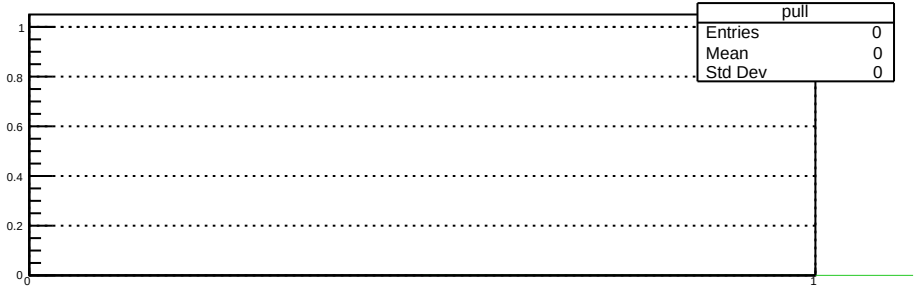
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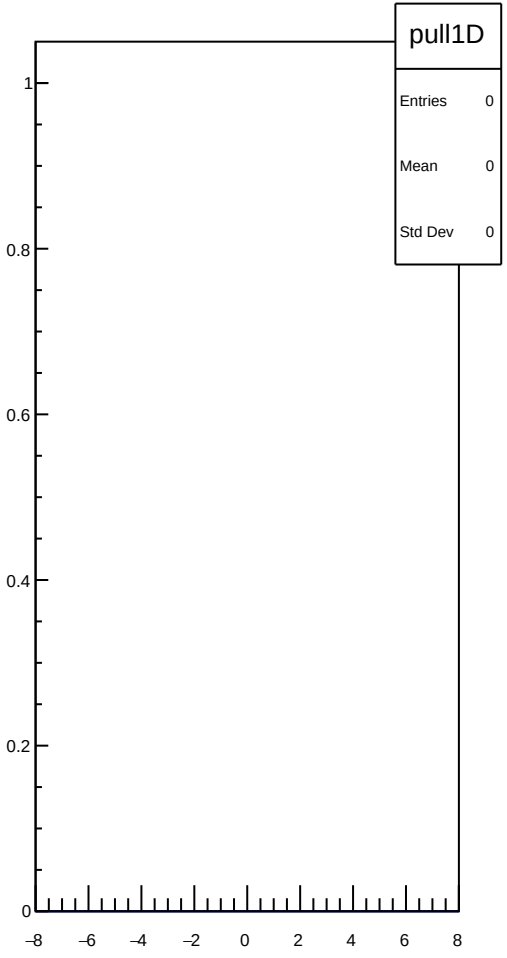
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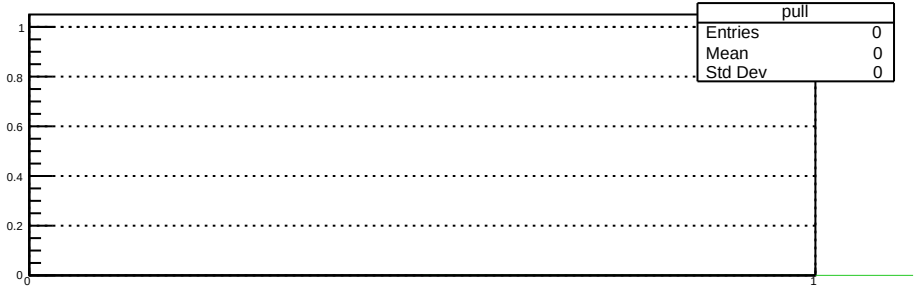
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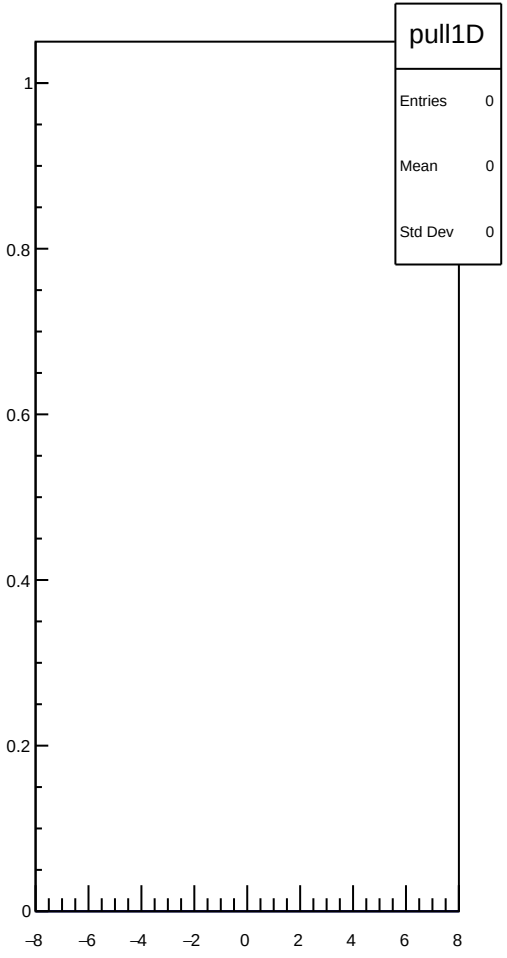
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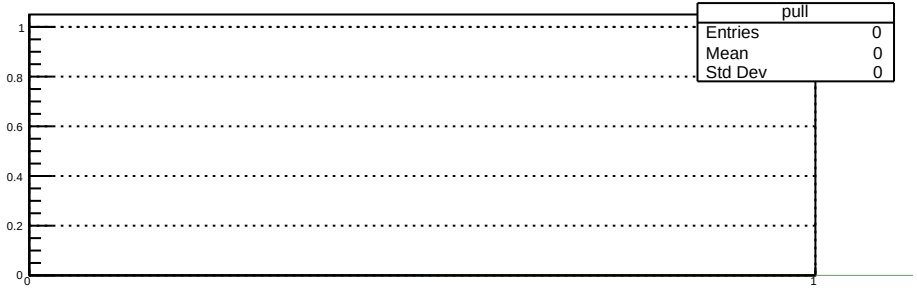
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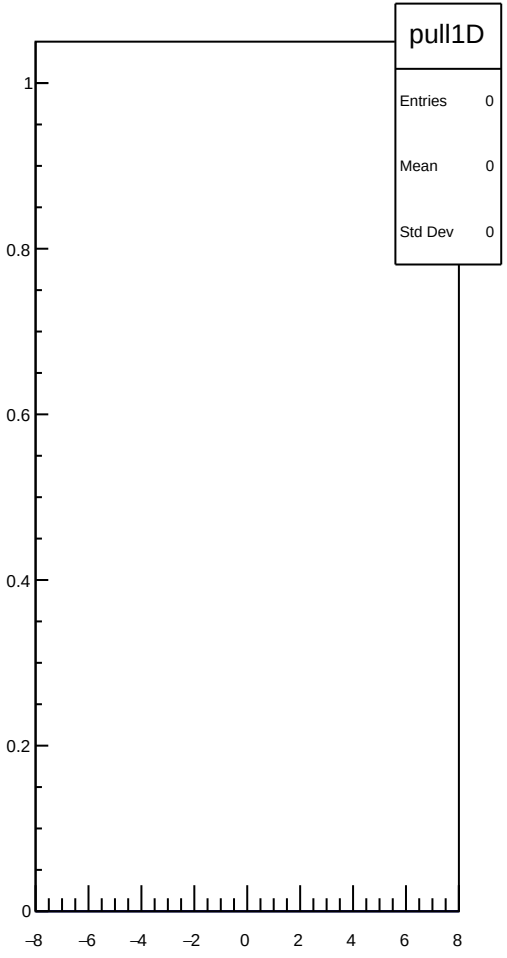
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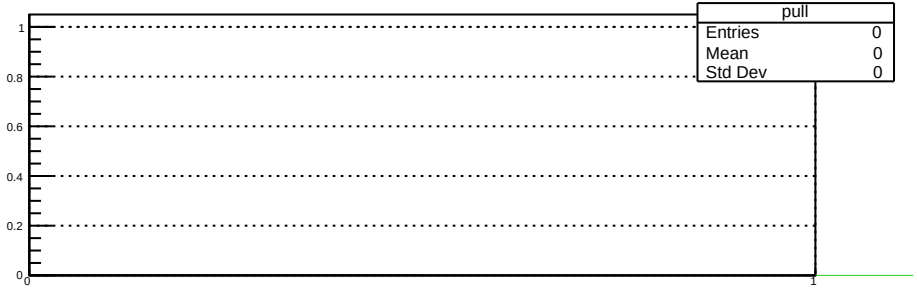
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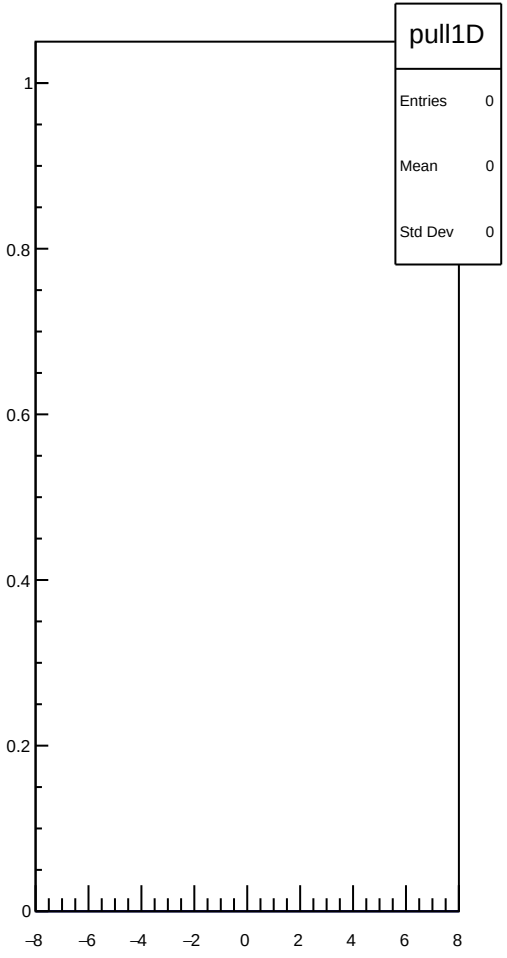
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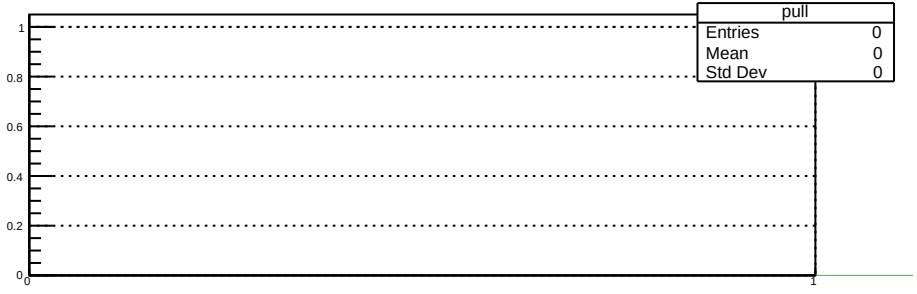
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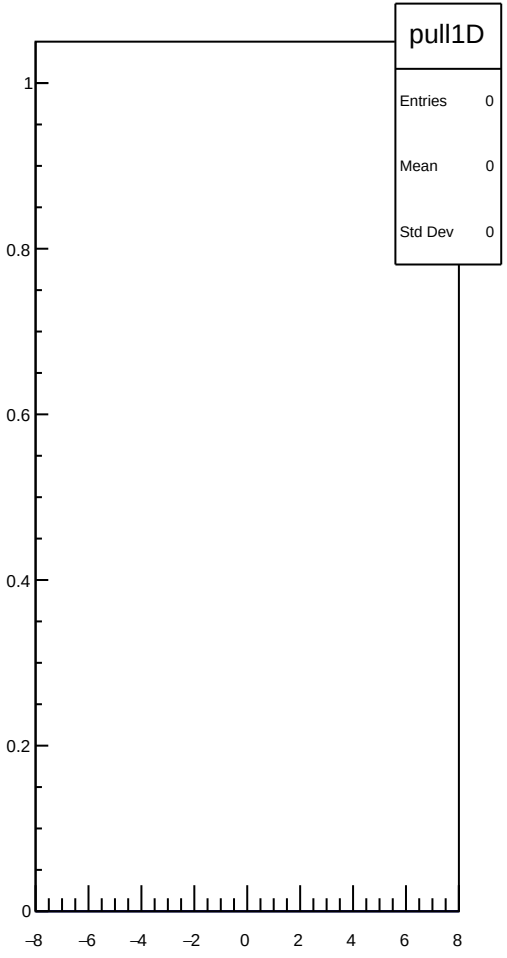
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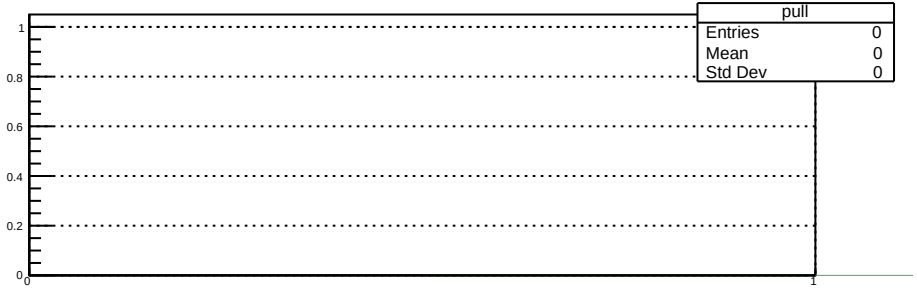
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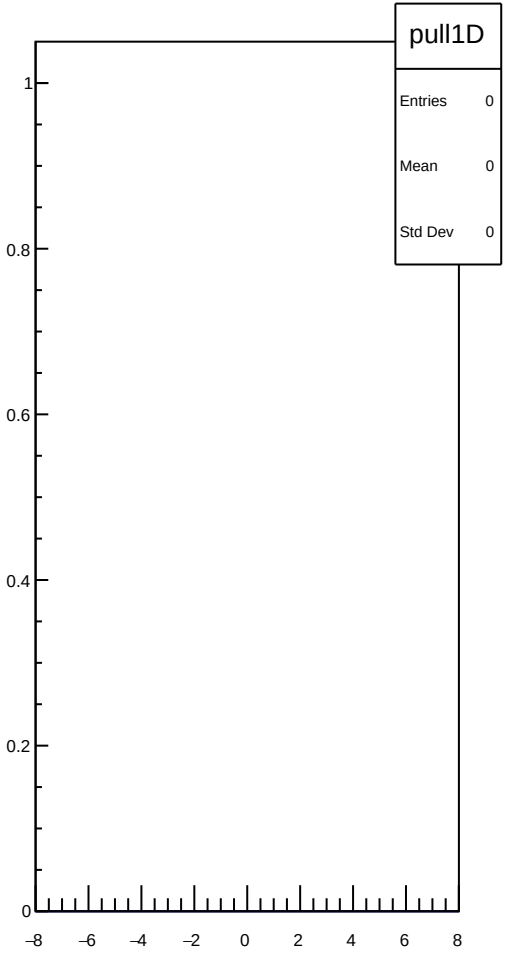
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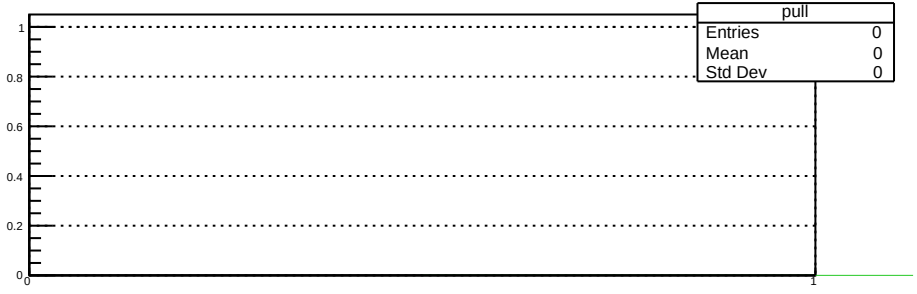
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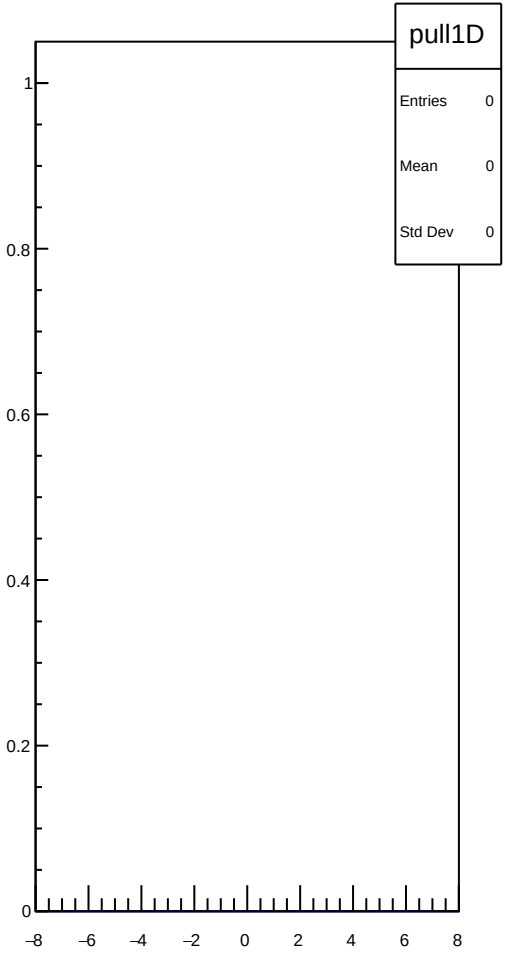
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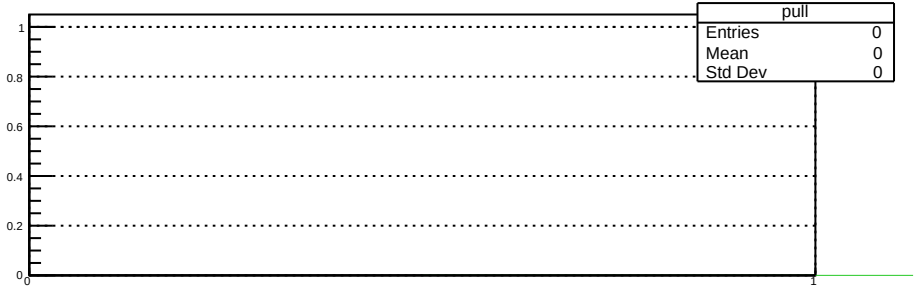
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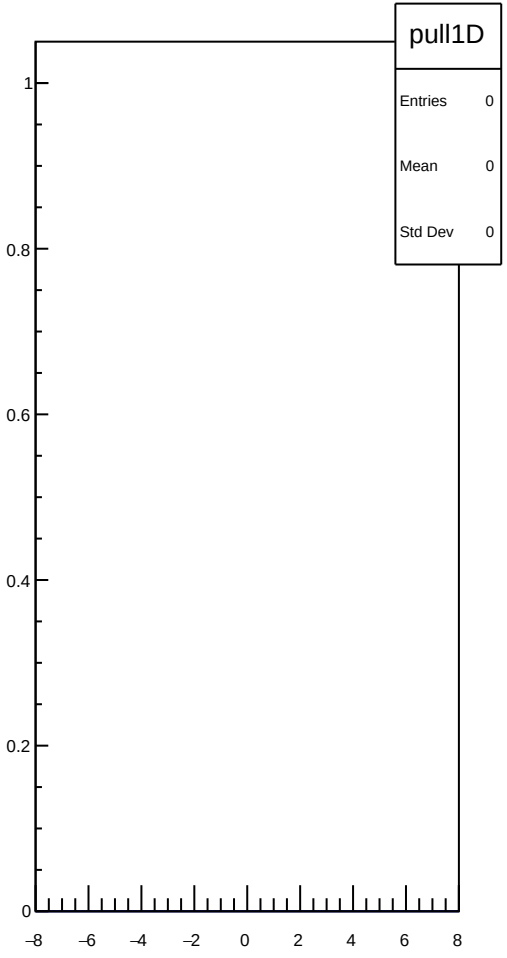
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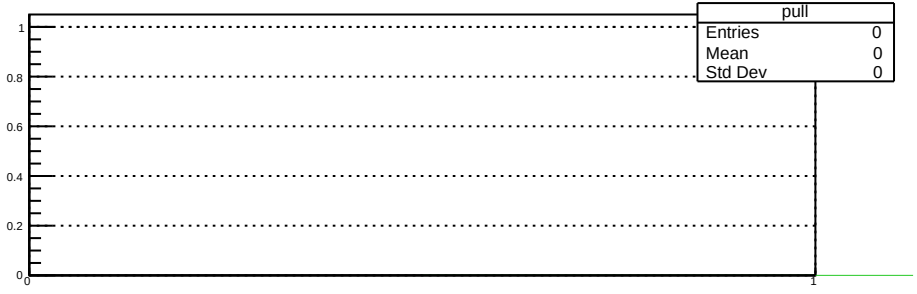
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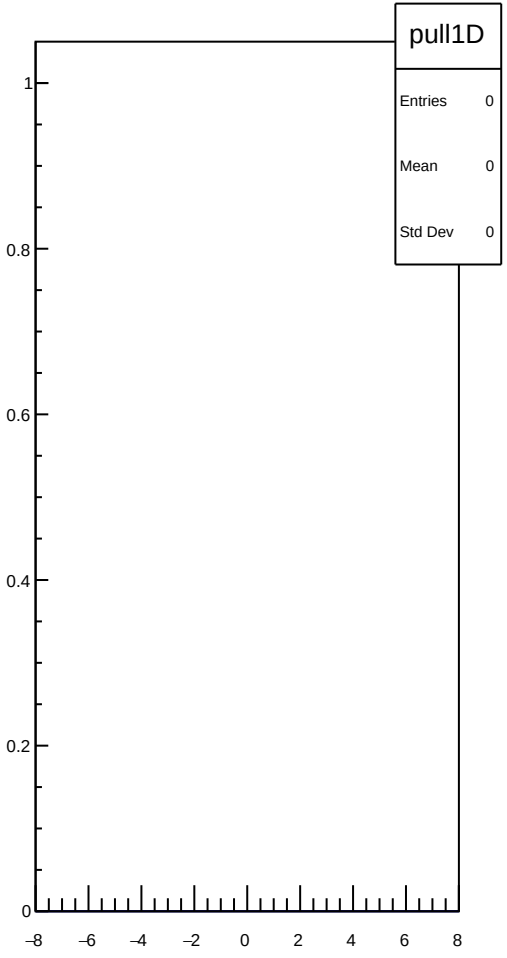
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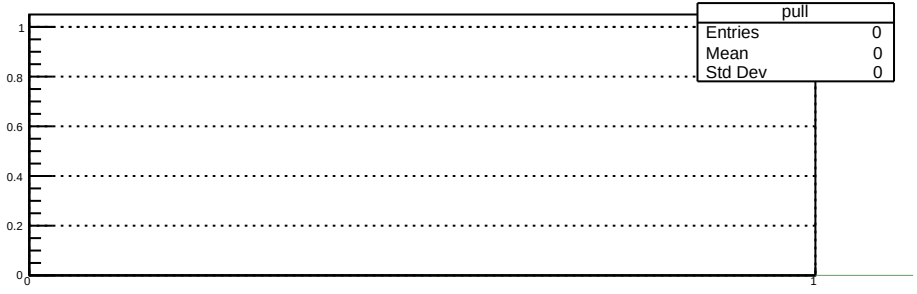
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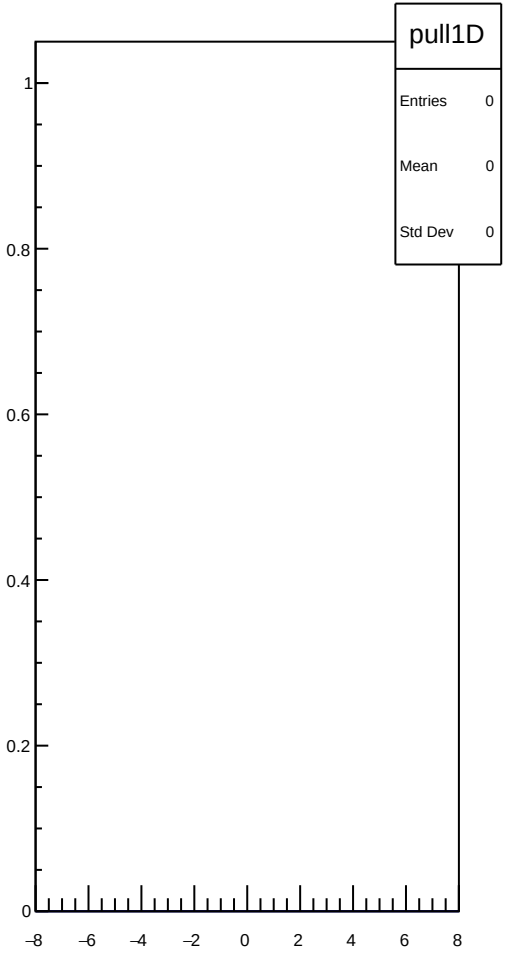
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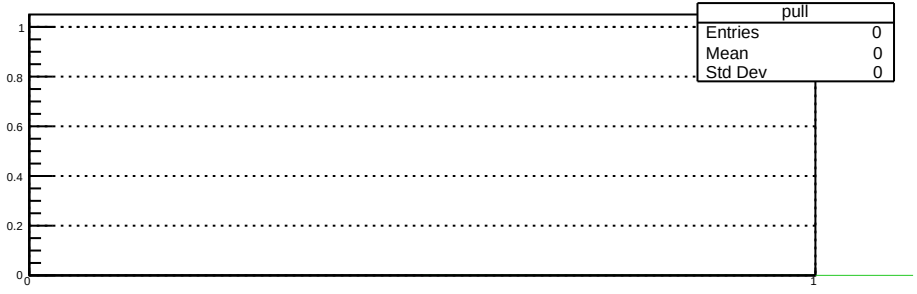
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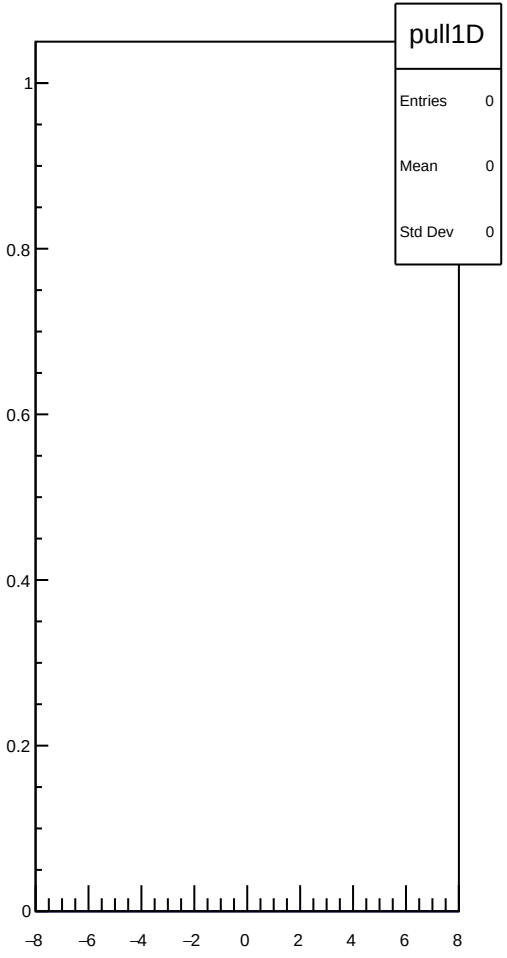
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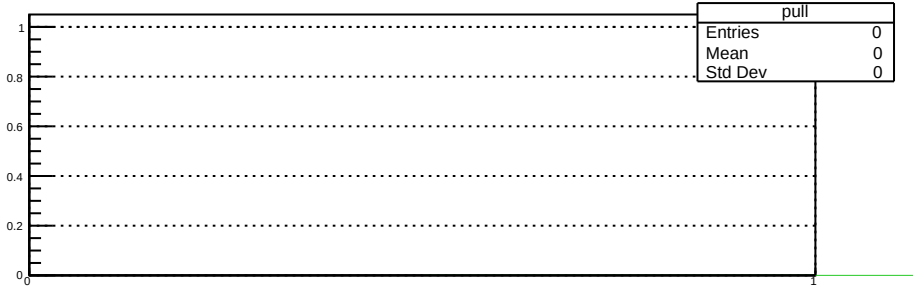
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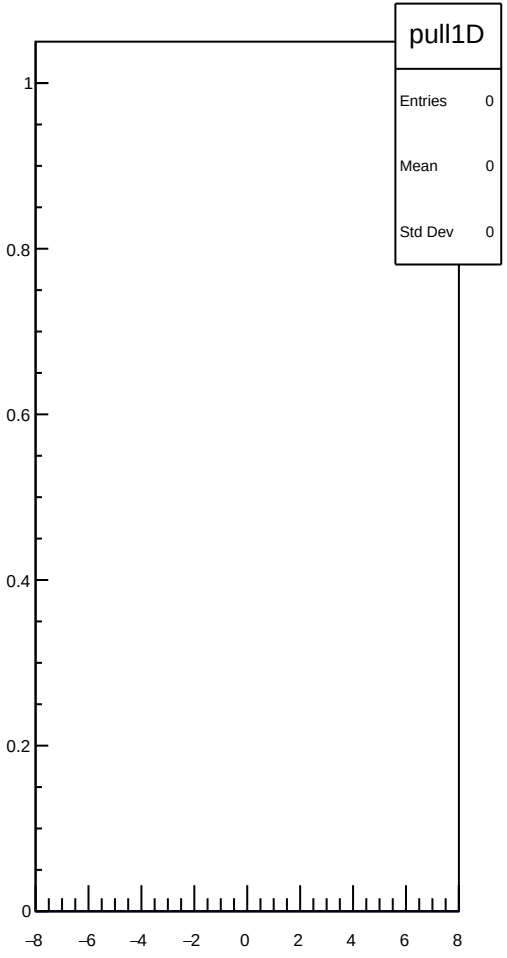
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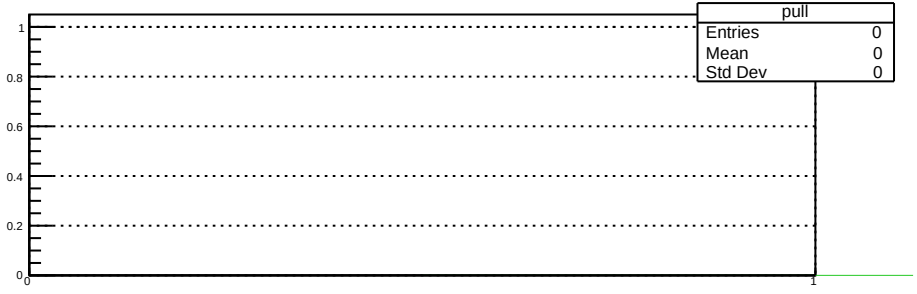
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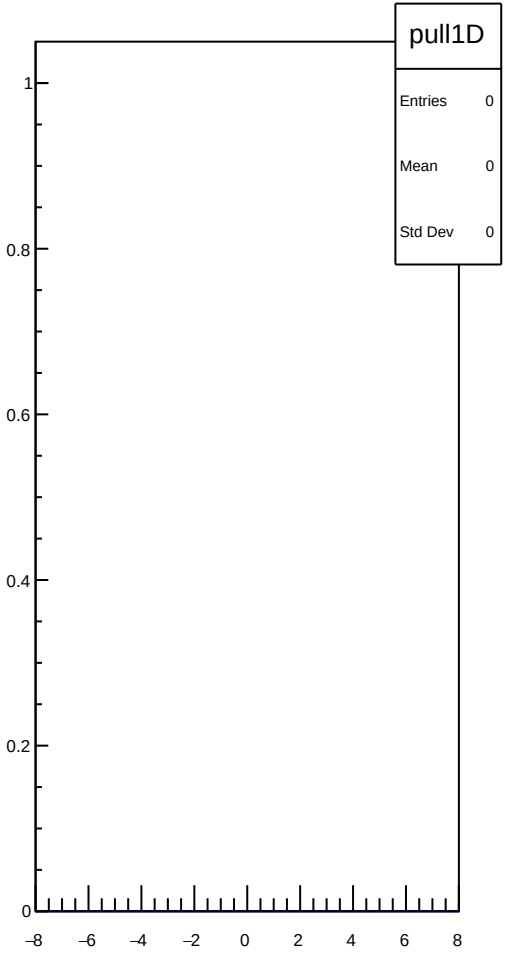
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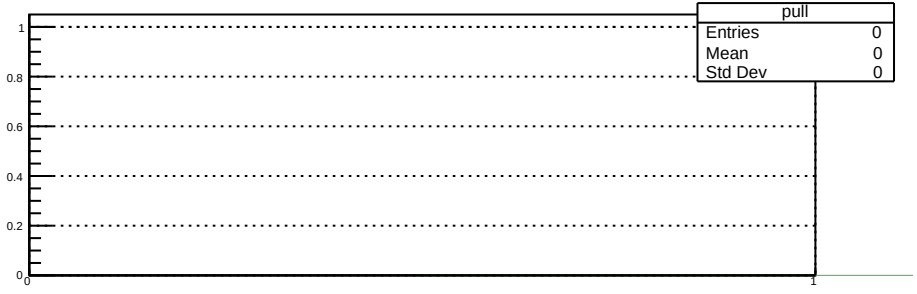
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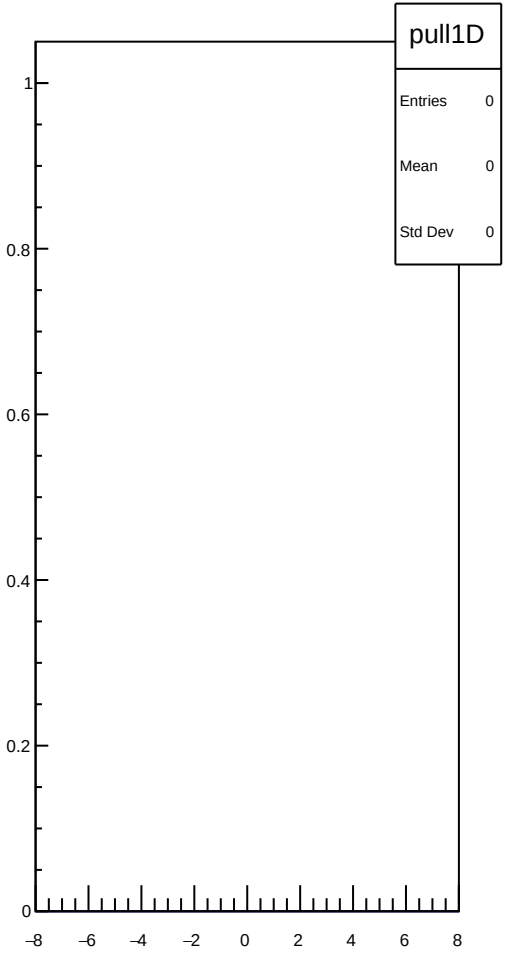
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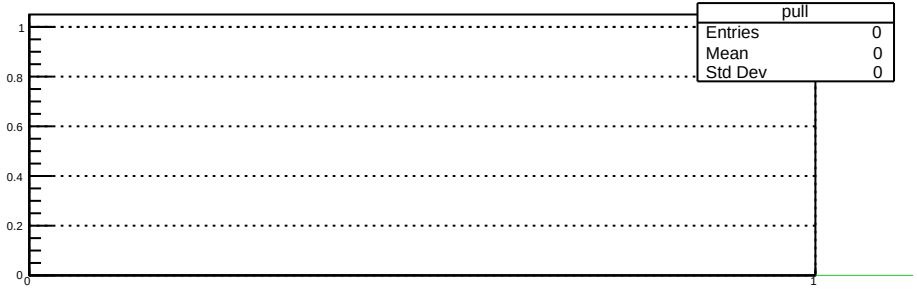
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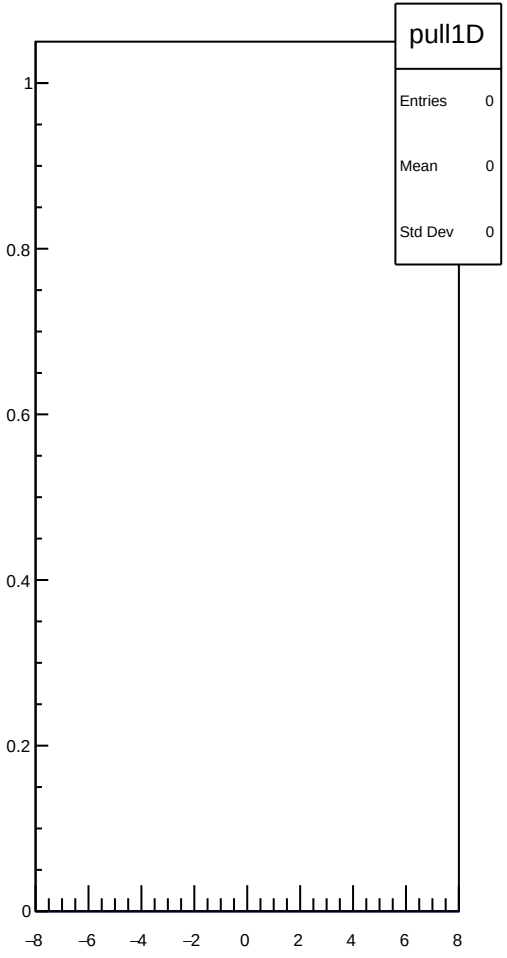
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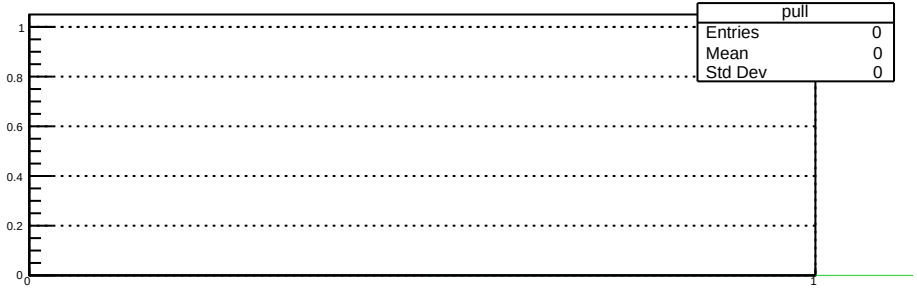
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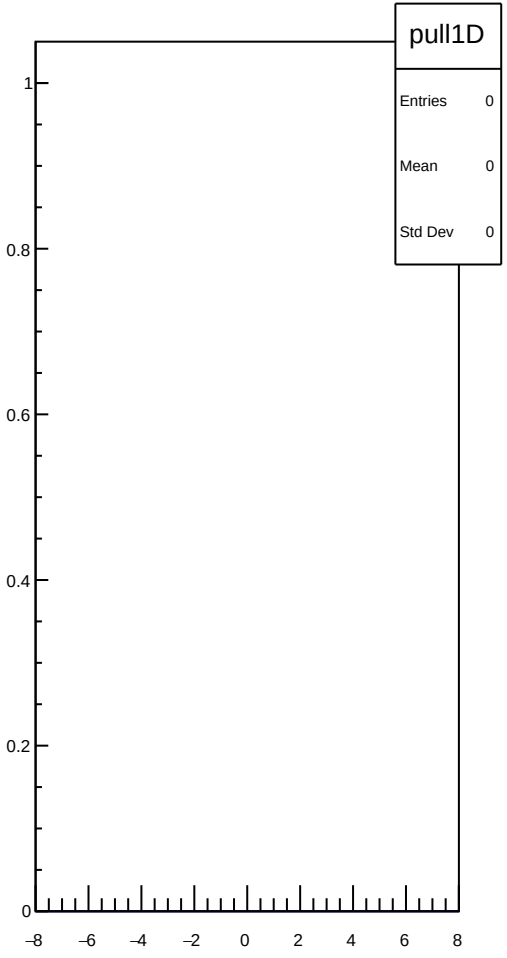
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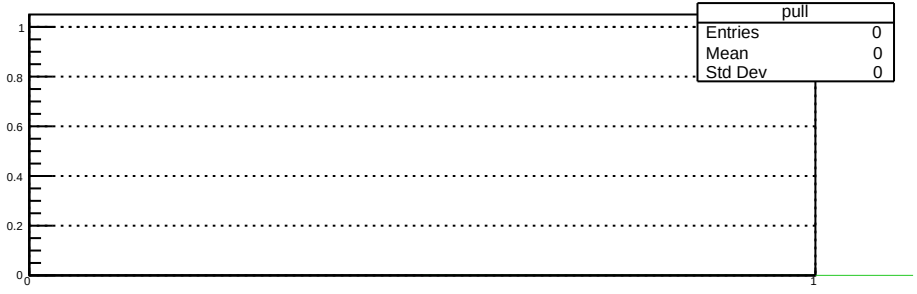
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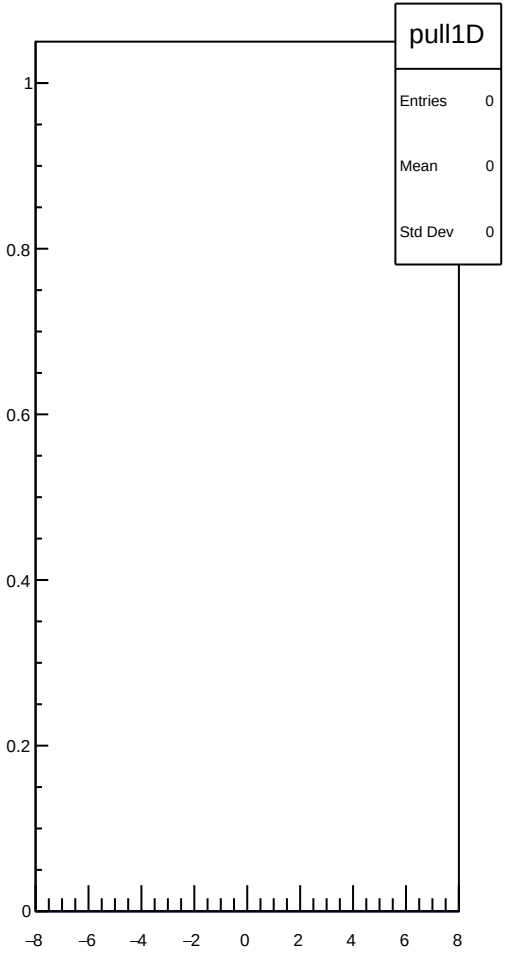
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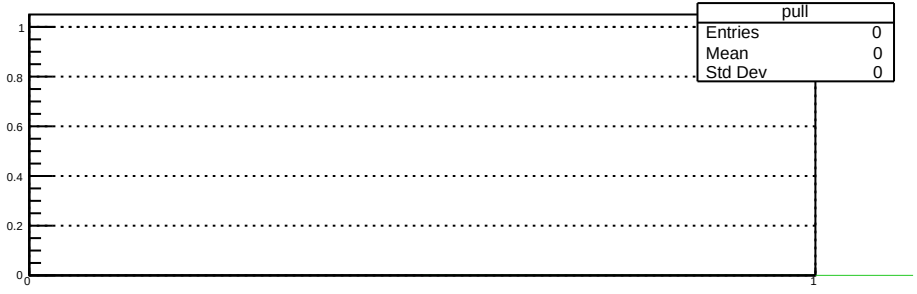
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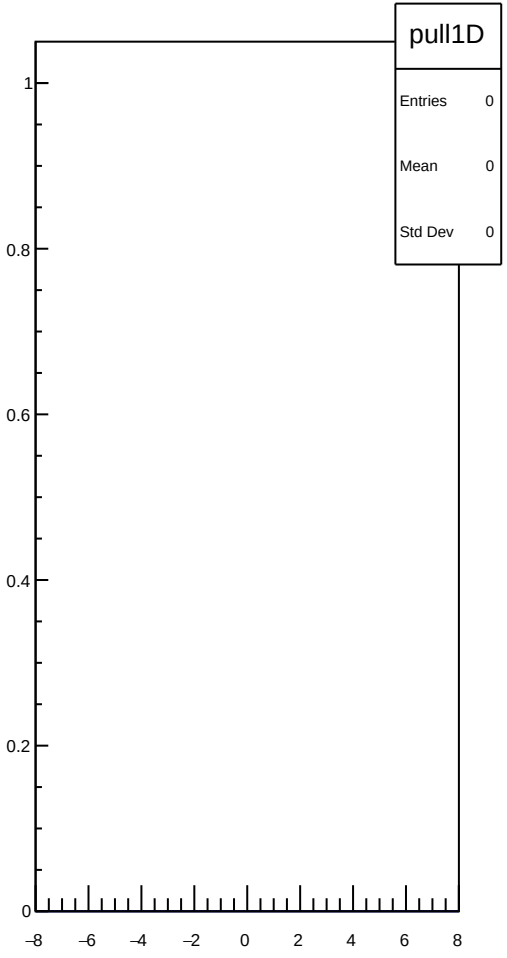
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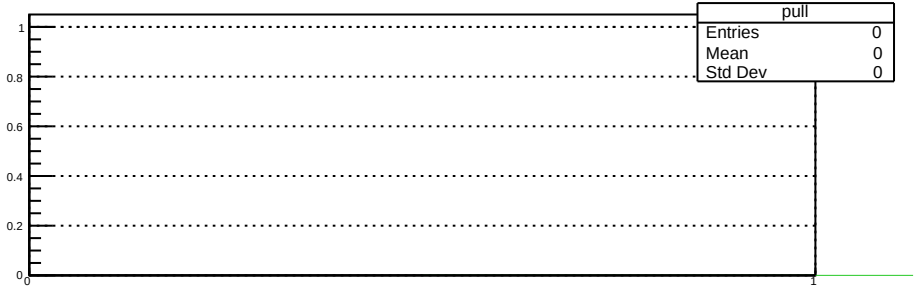
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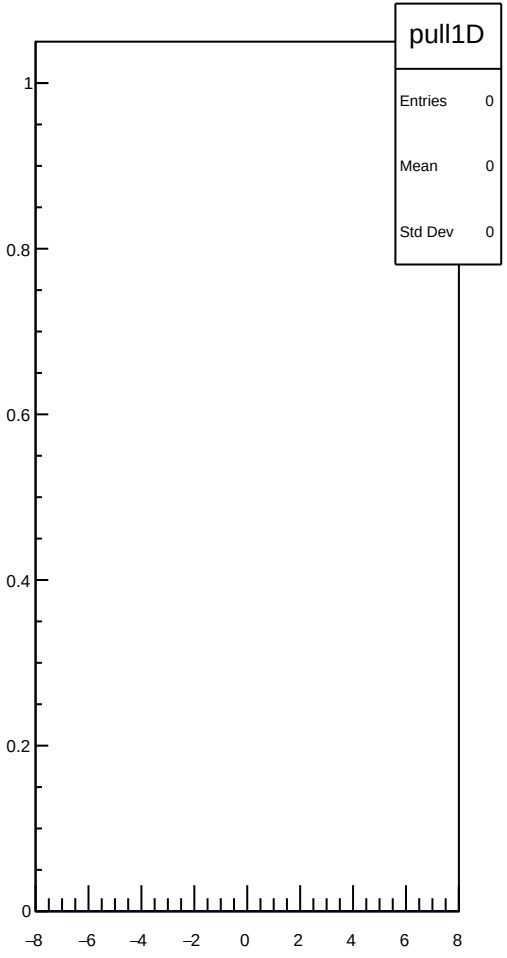
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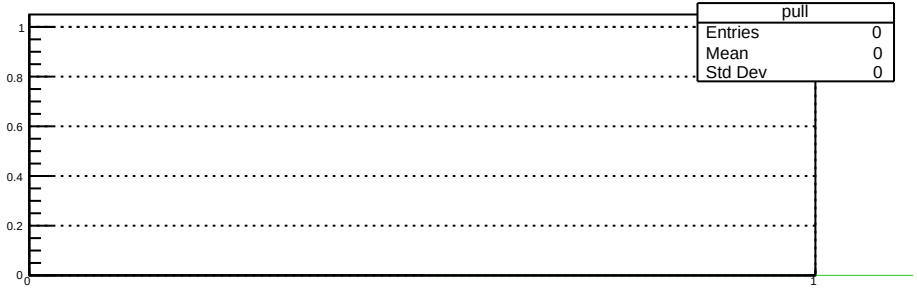
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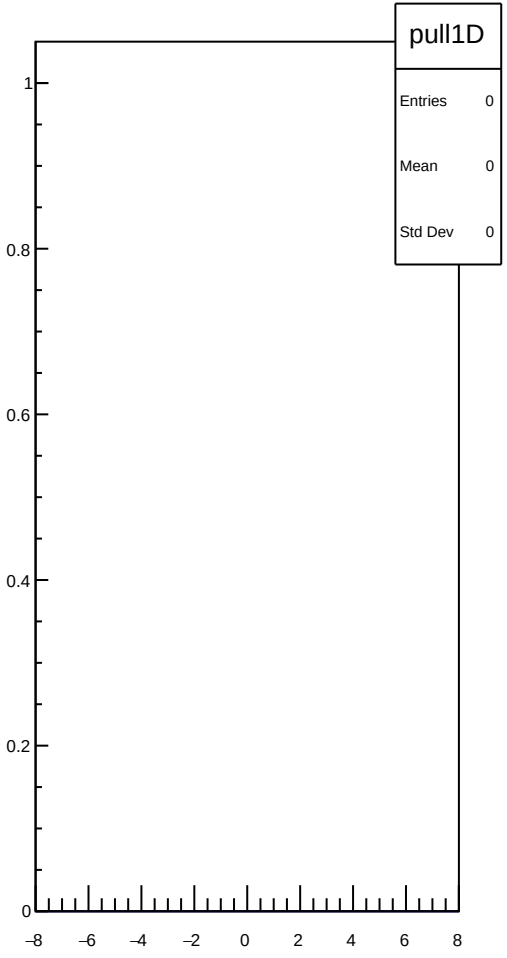
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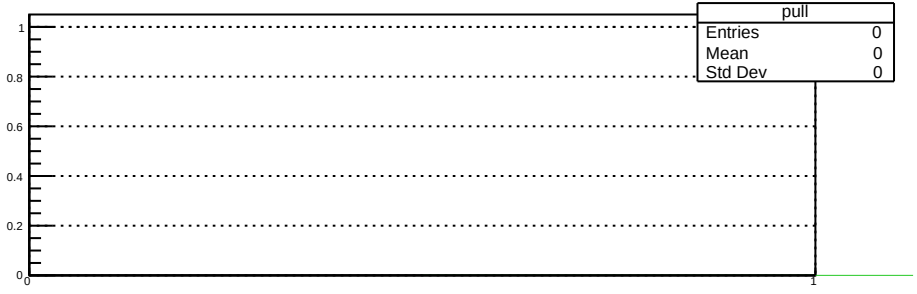
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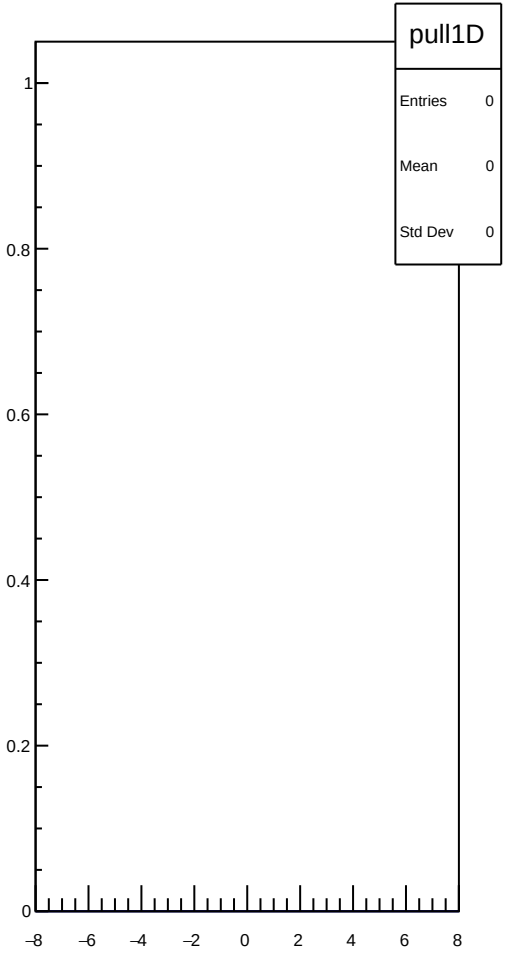
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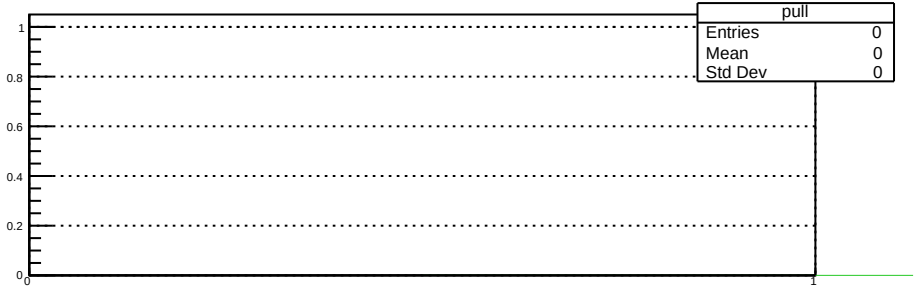
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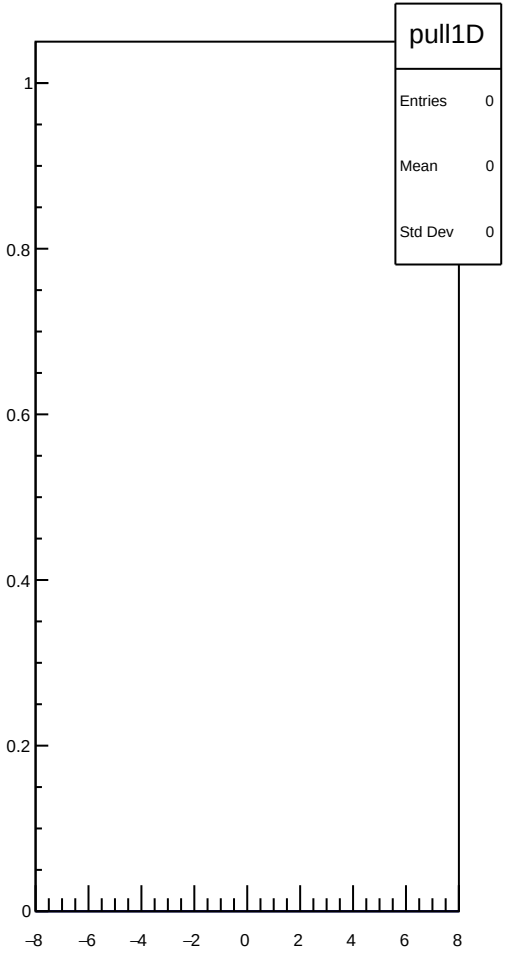
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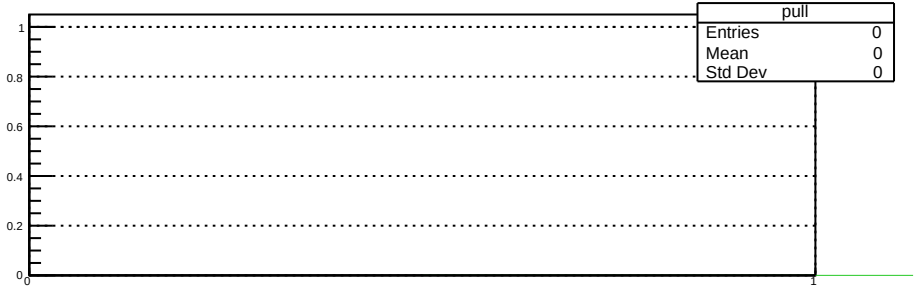
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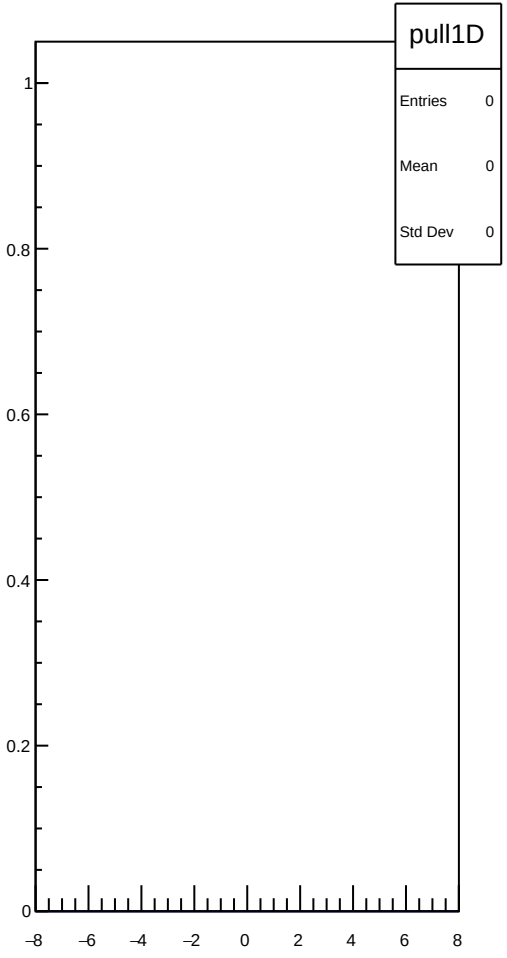
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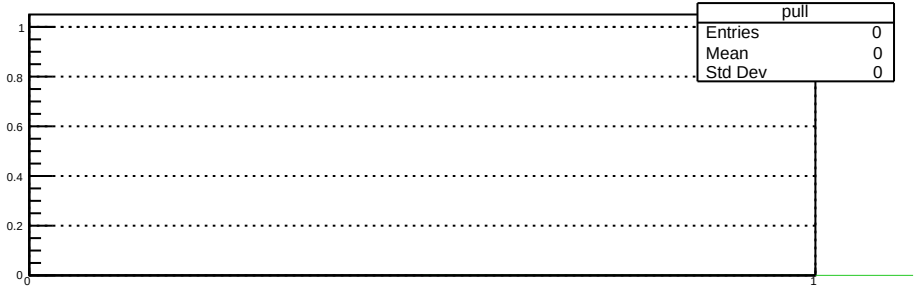
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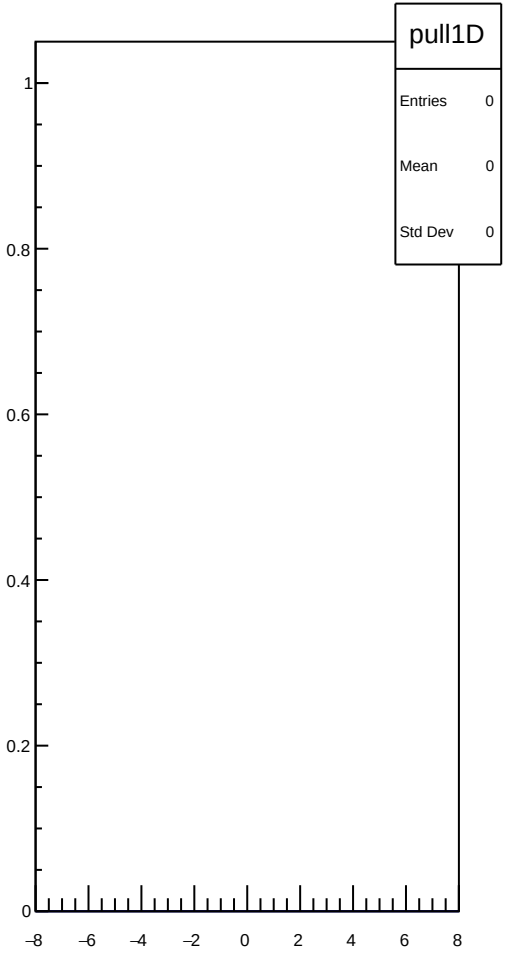
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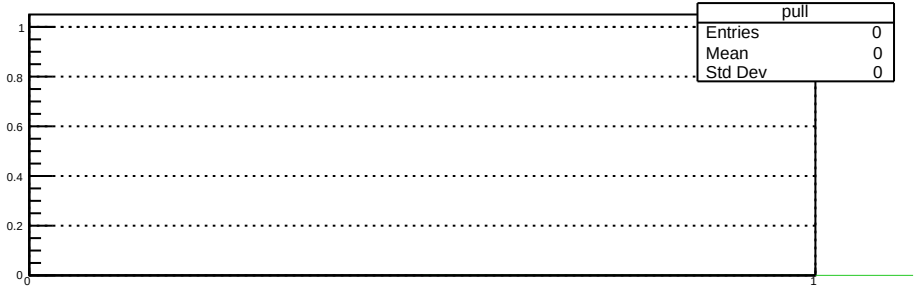
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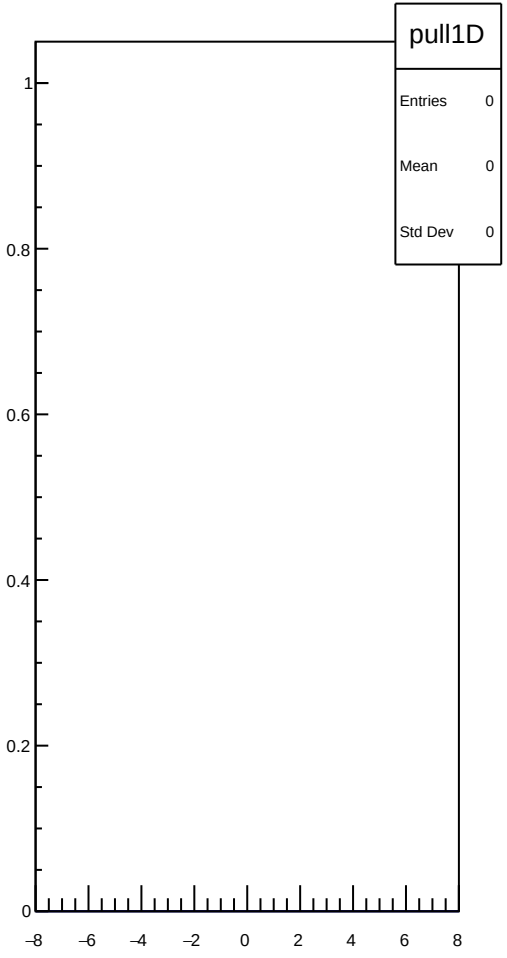
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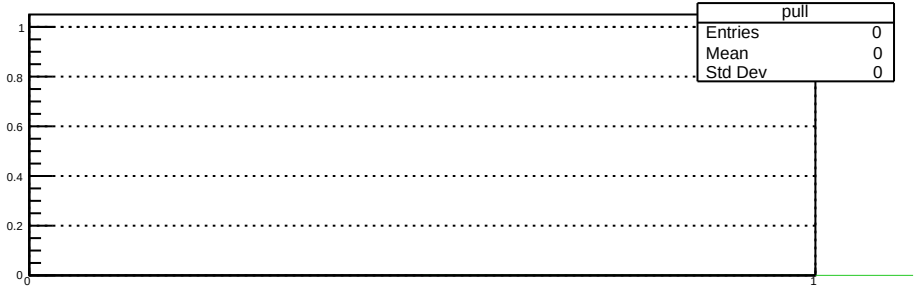
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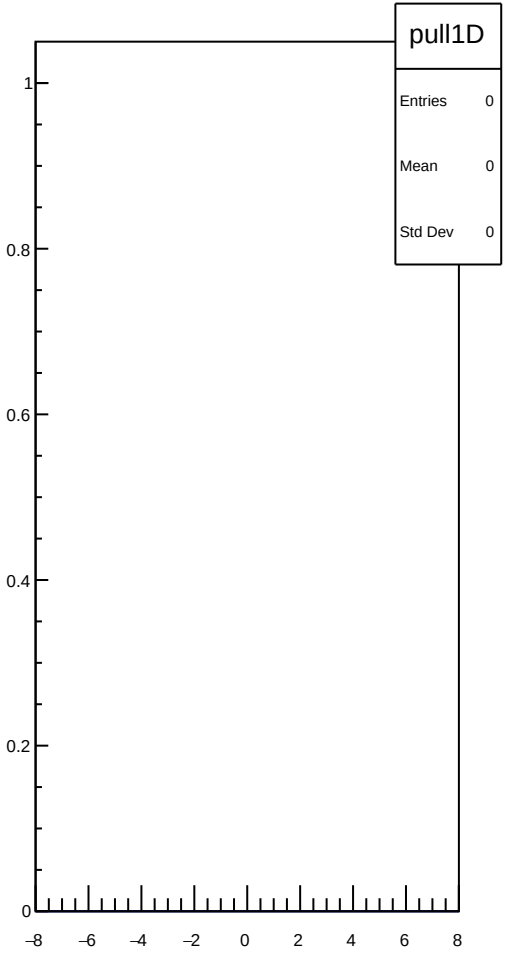
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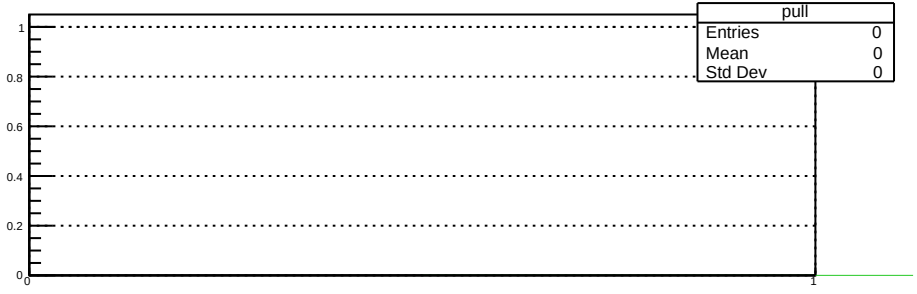
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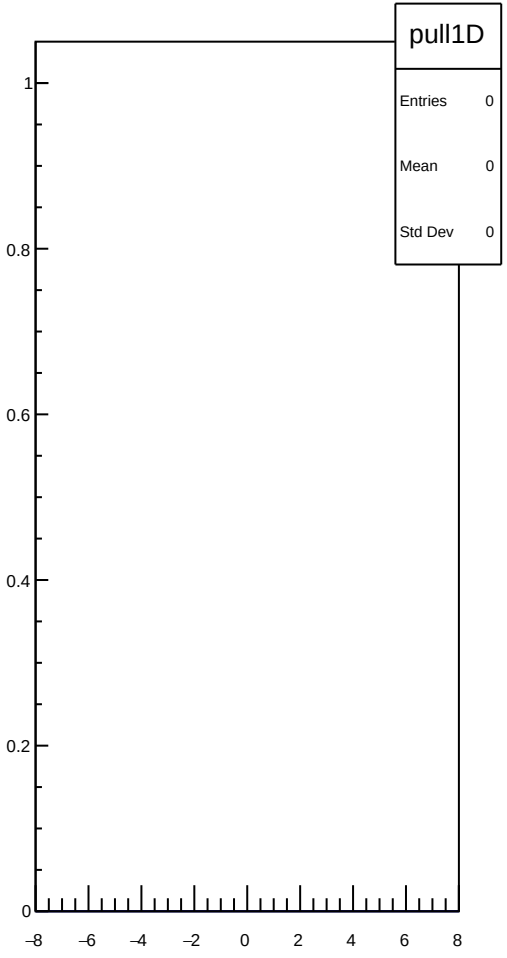
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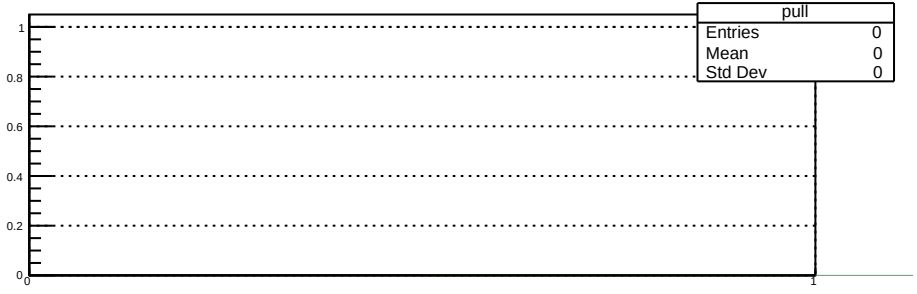
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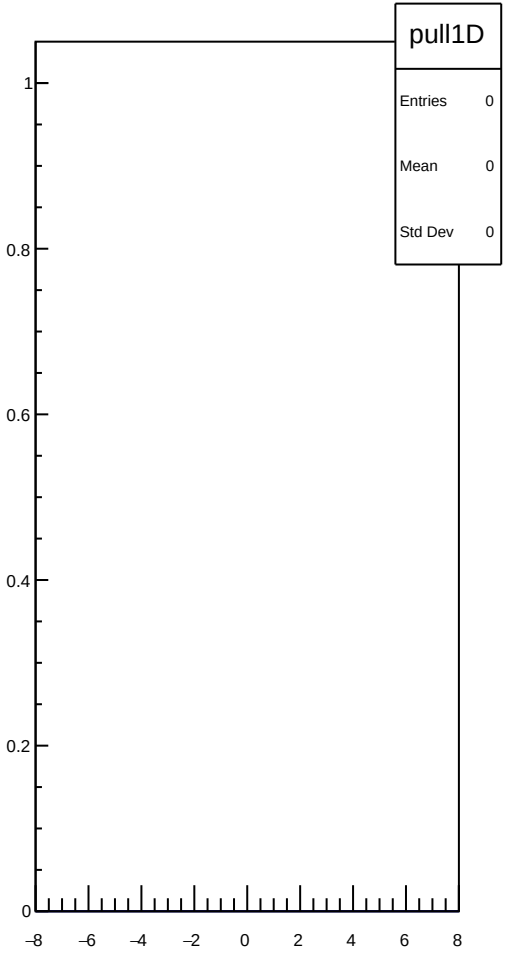
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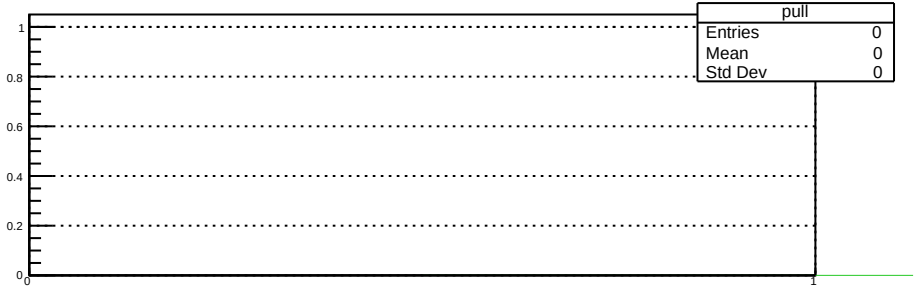
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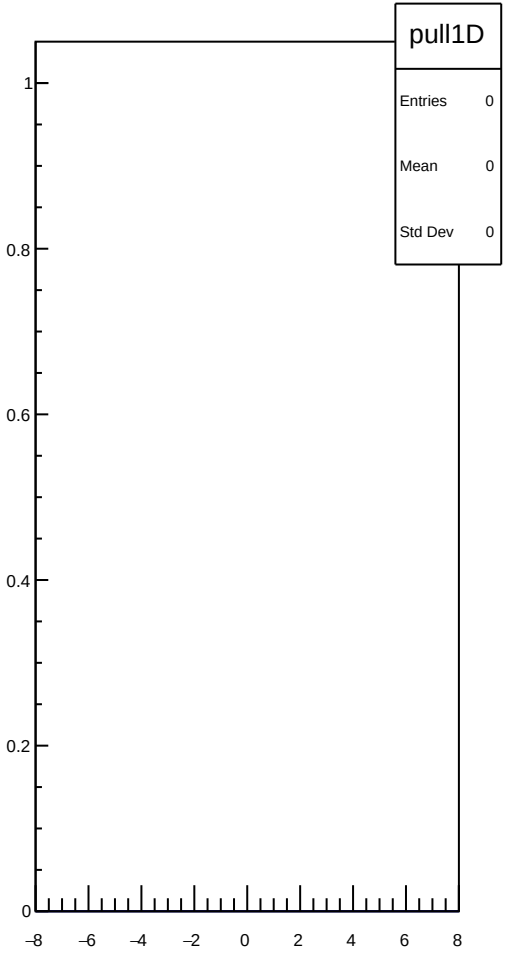
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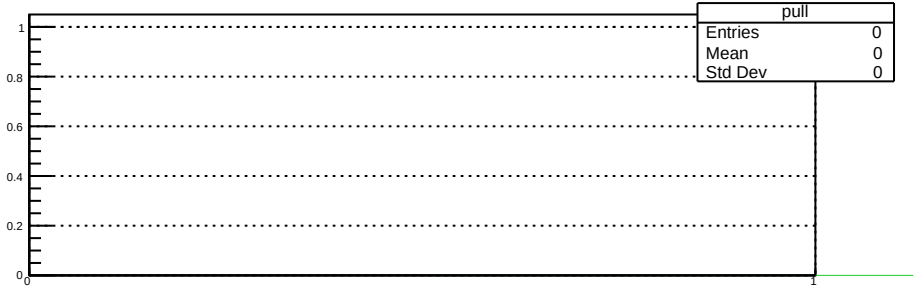
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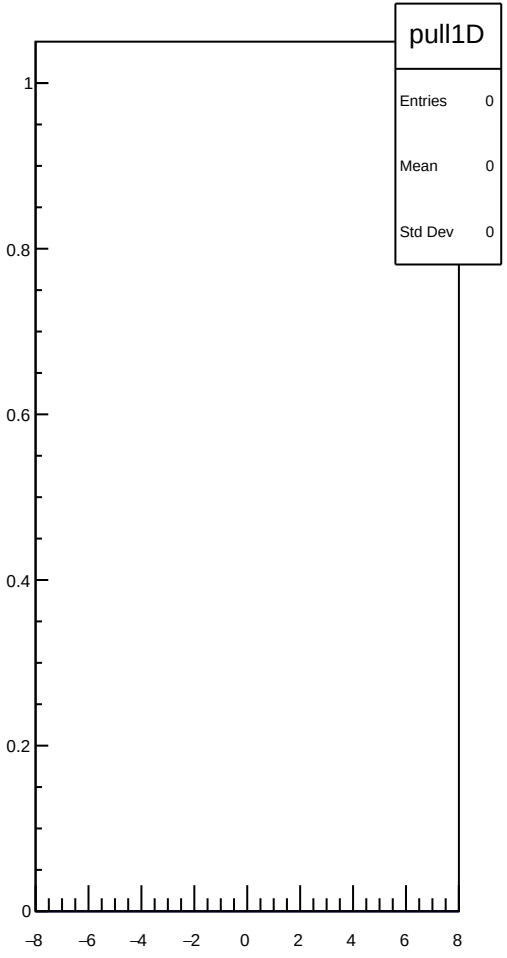
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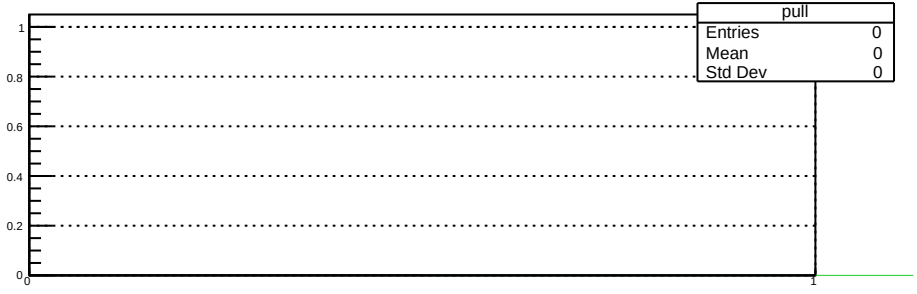
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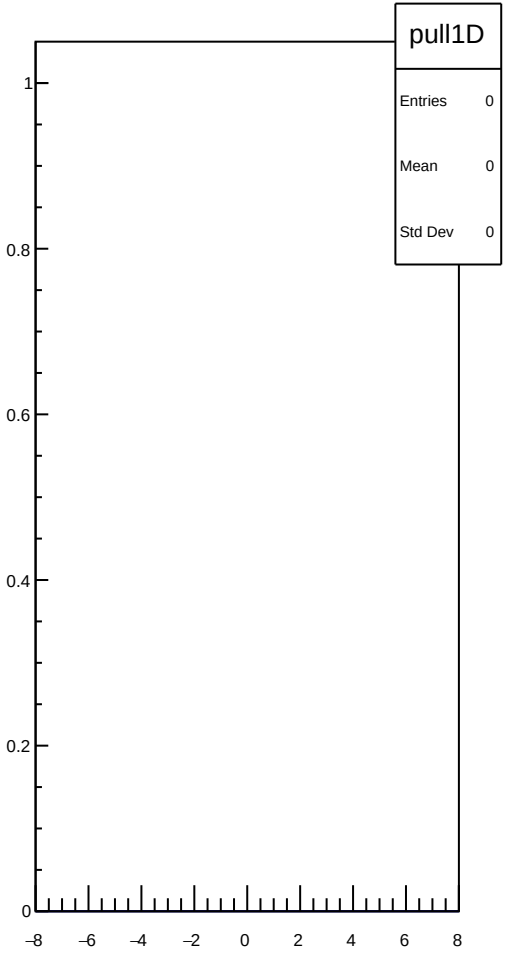
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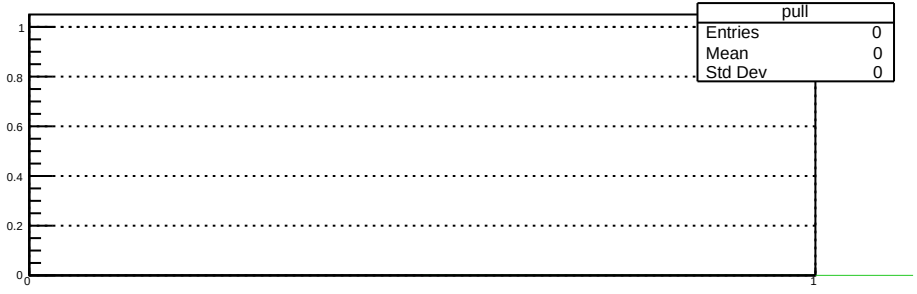
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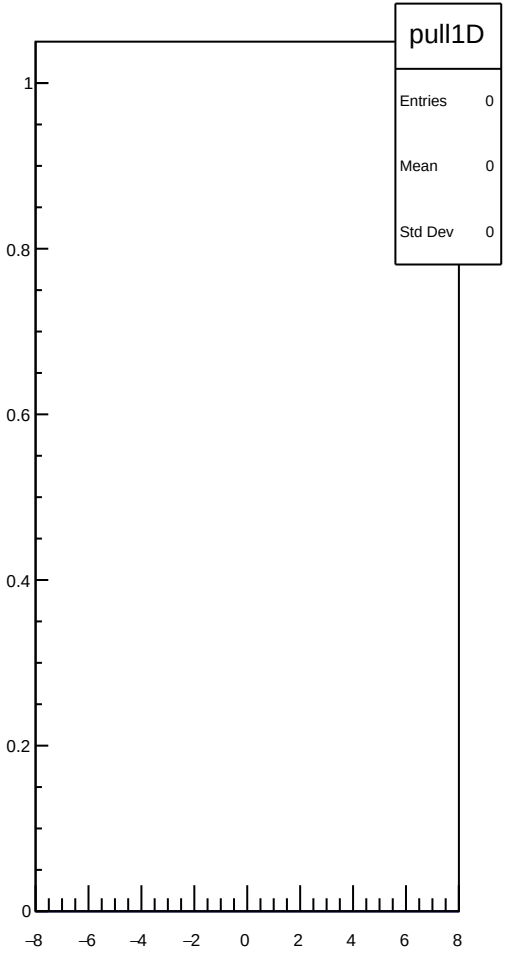
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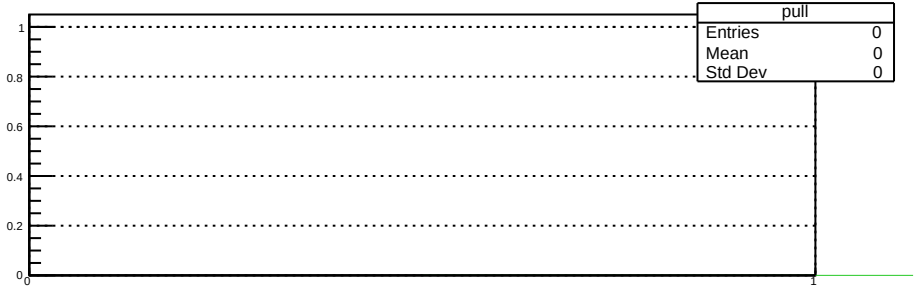
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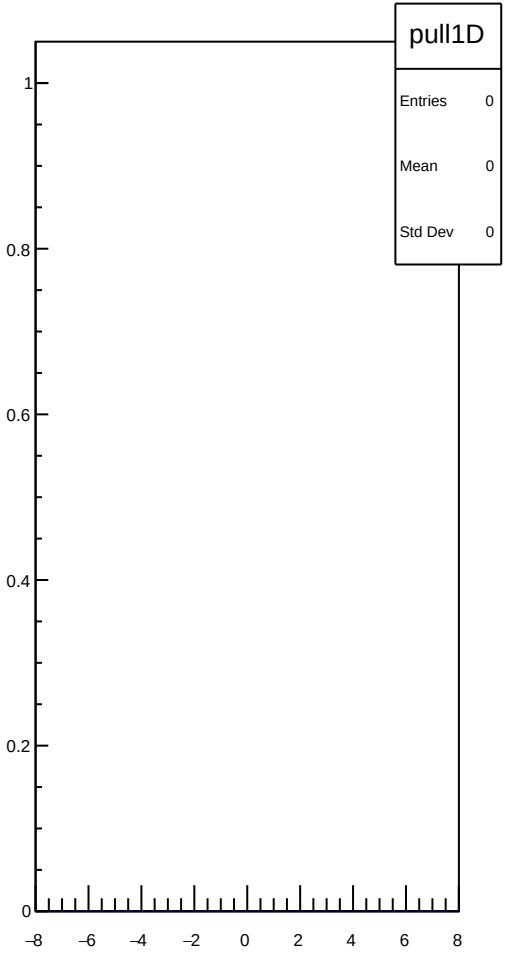
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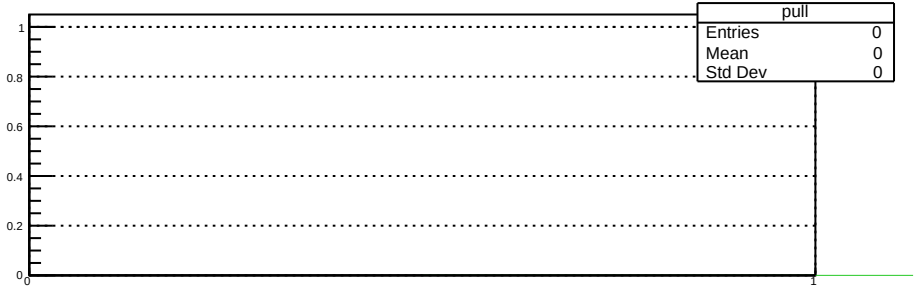
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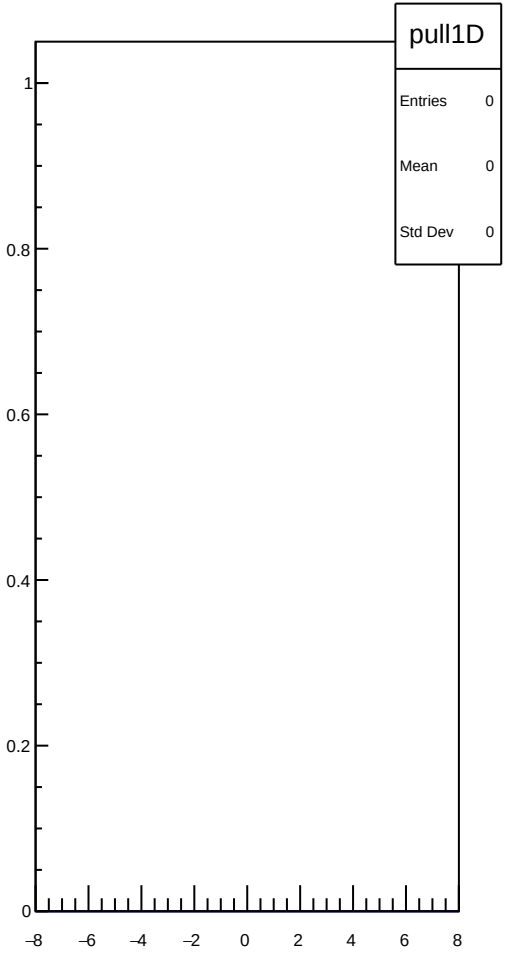
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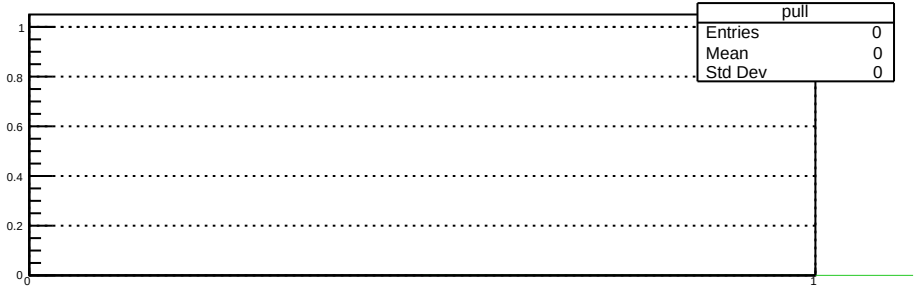
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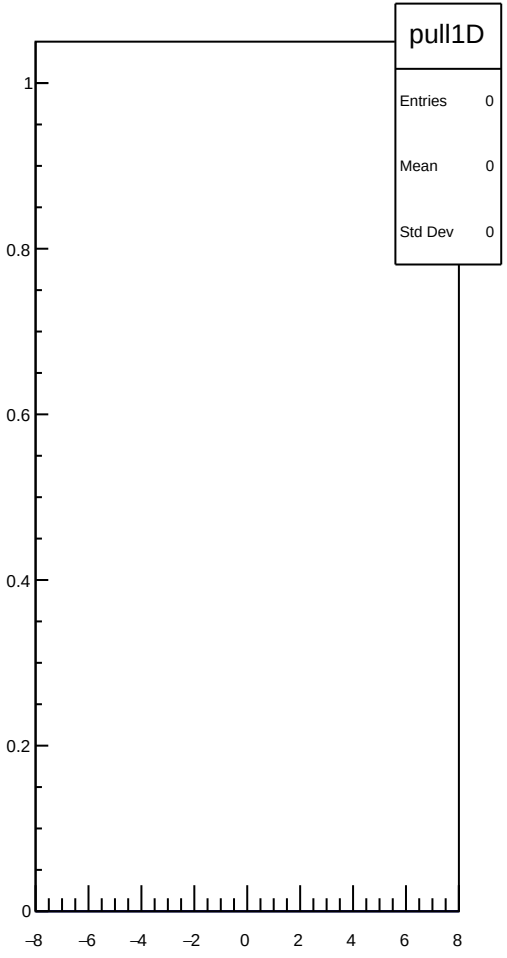
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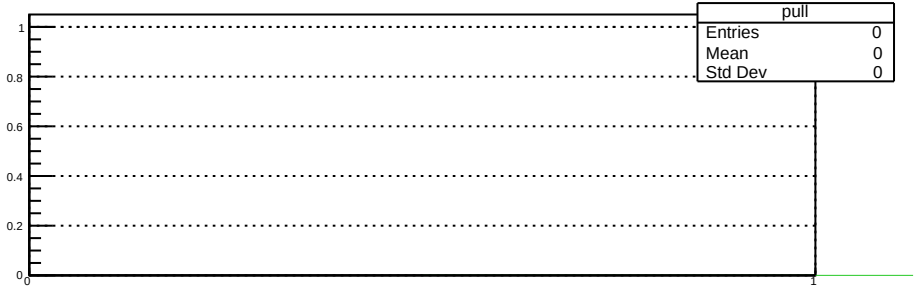
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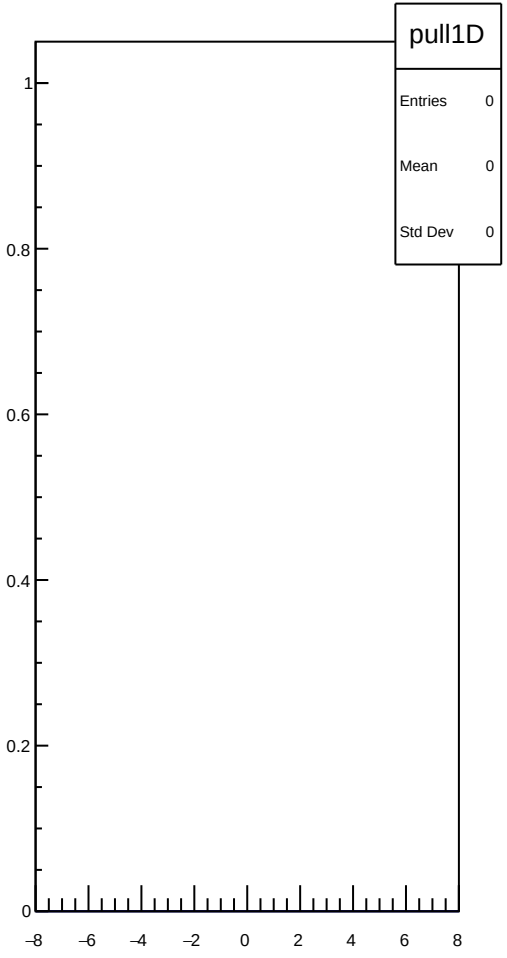
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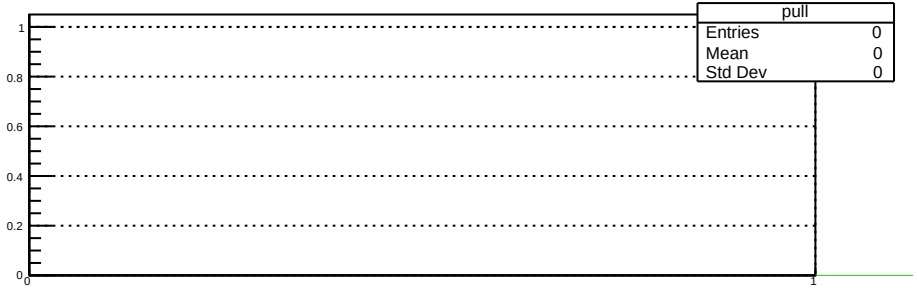
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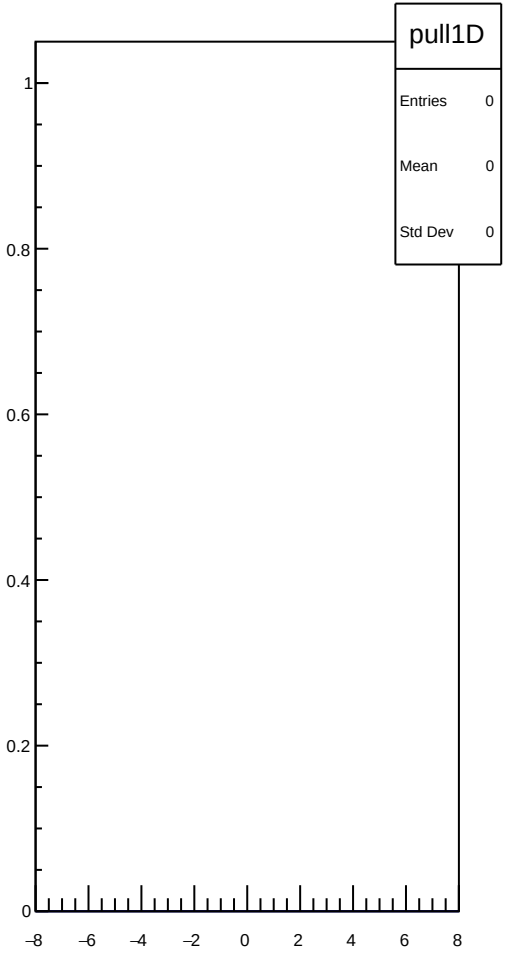
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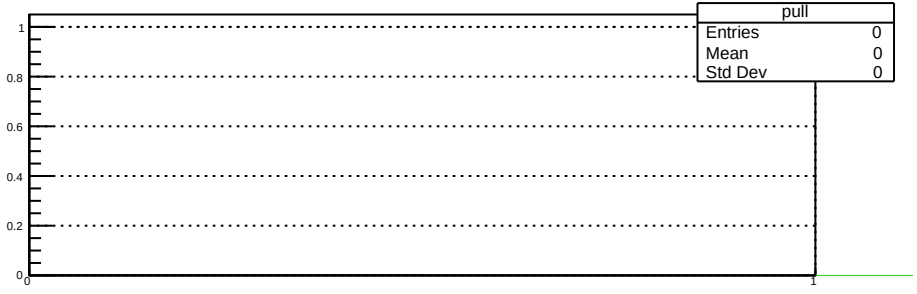
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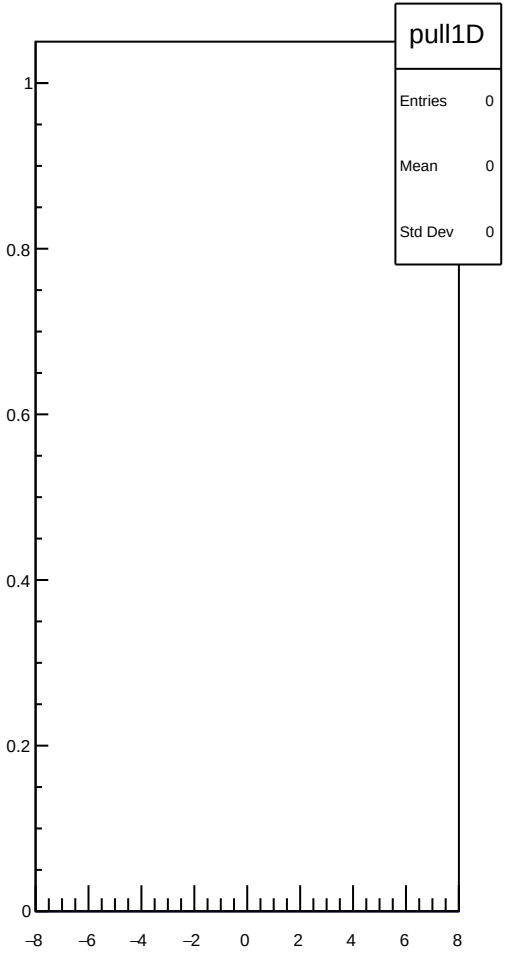
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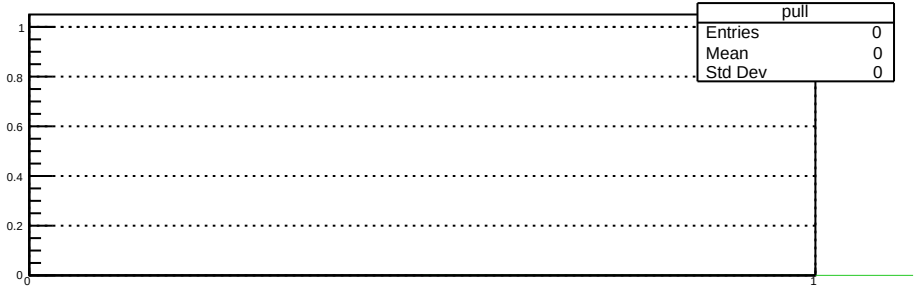
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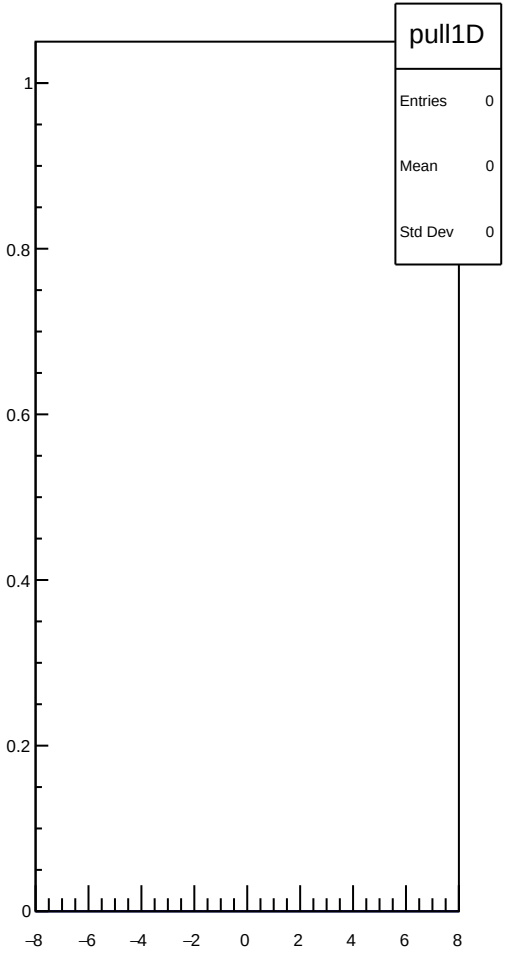
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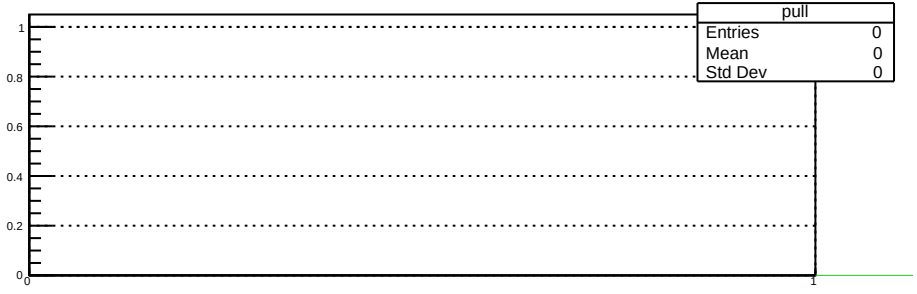
pull
Entries 0
Mean 0
Std Dev 0
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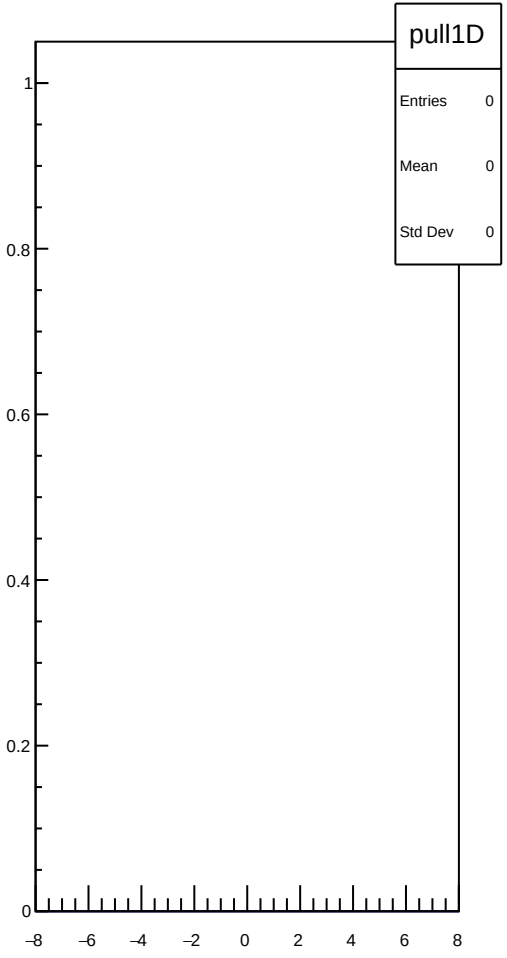
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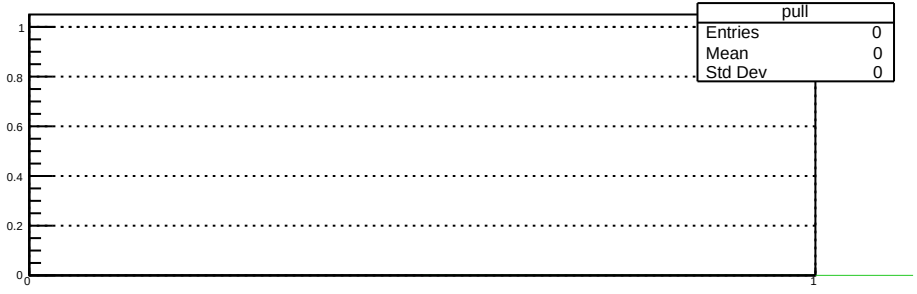
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Std Dev 0
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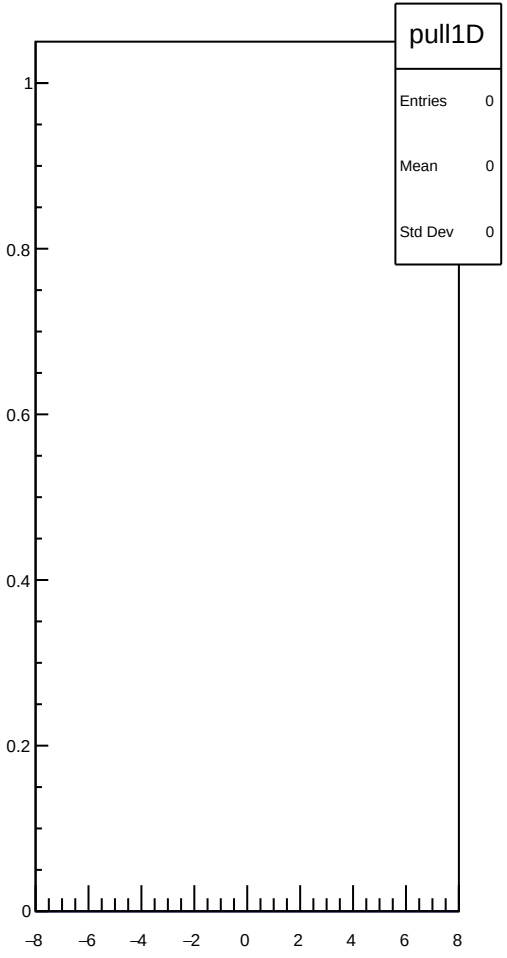
pull1D
Entries 0
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Std Dev 0
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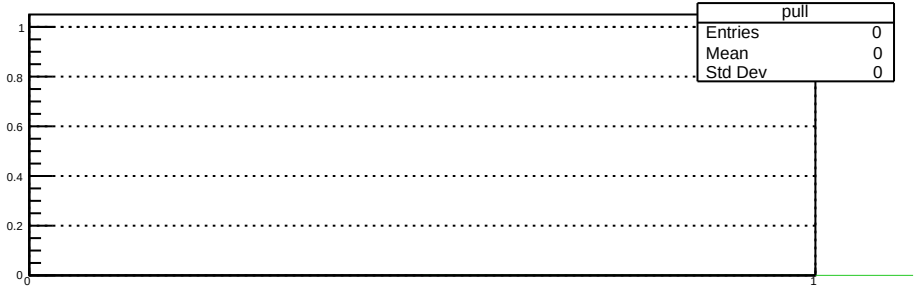
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Std Dev 0
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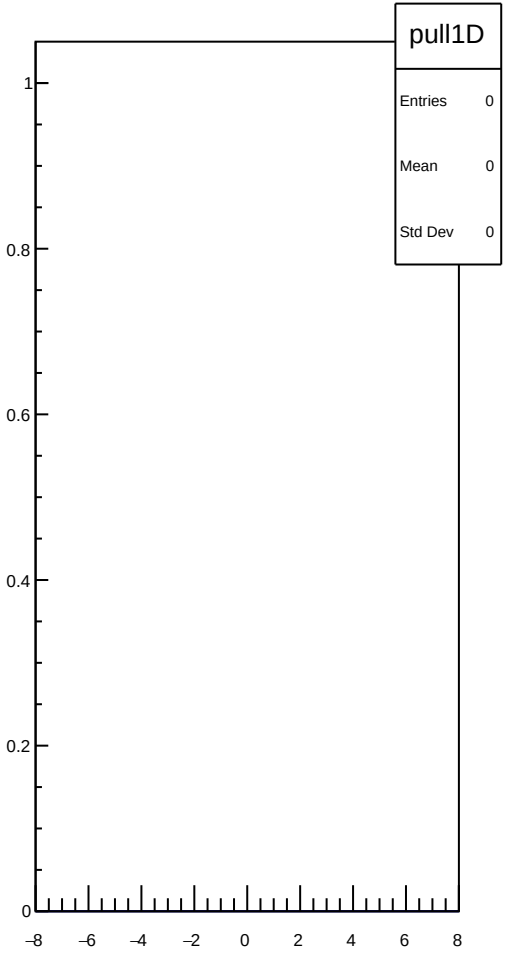
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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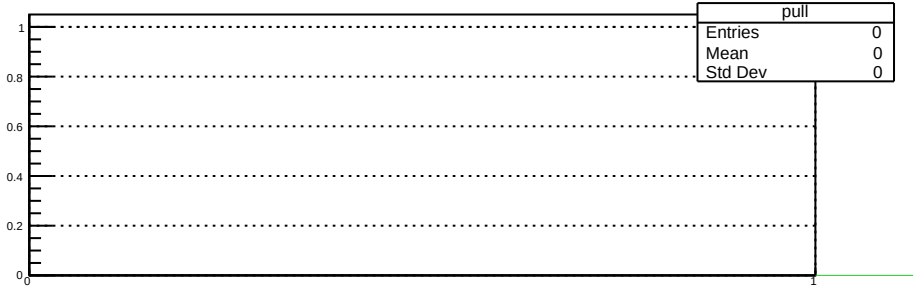
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Std Dev 0
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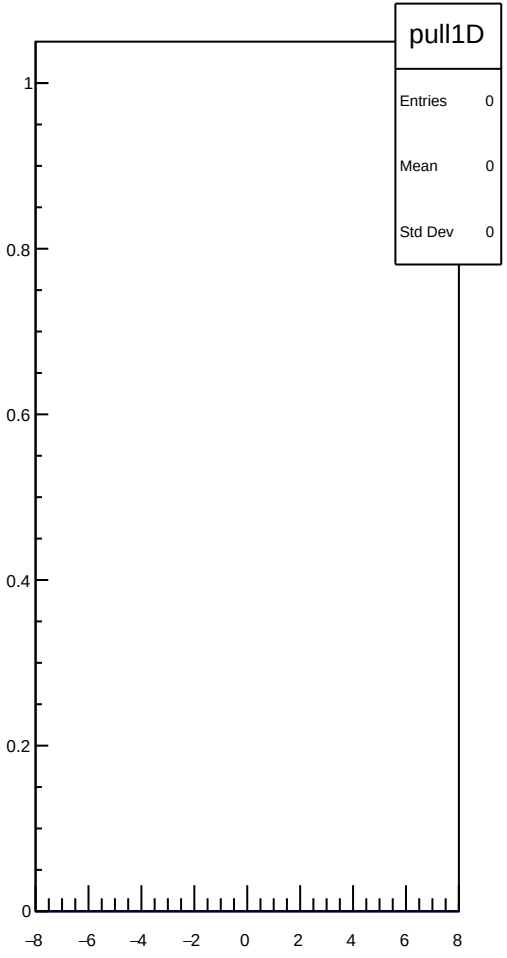
pull1D
Entries 0
Mean 0
Std Dev 0
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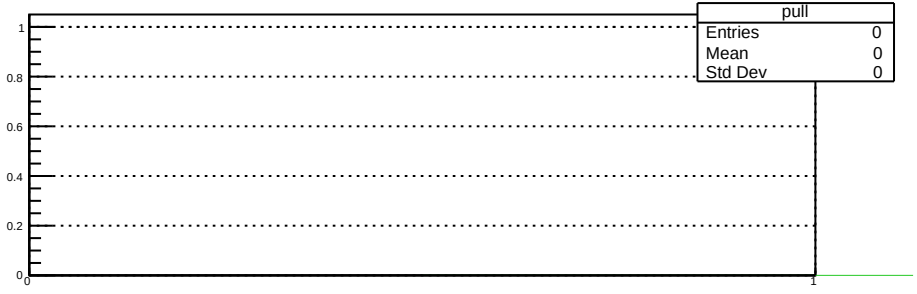
pull
Entries 0
Mean 0
Std Dev 0
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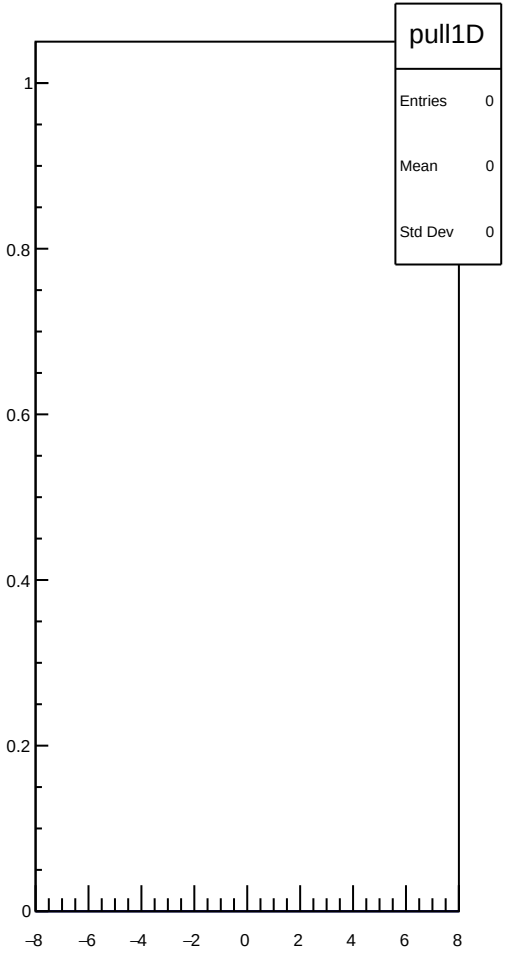
pull1D
Entries 0
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Std Dev 0
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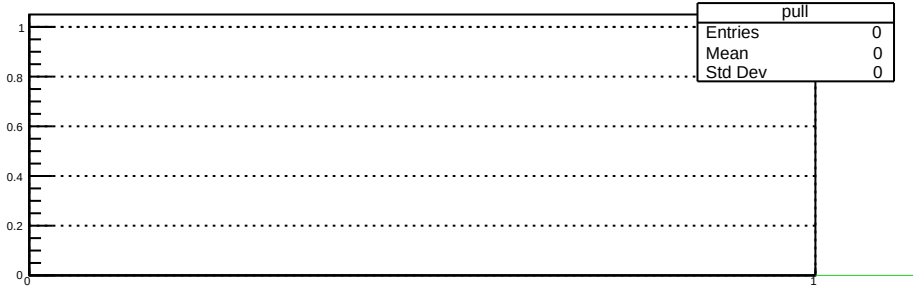
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Std Dev 0
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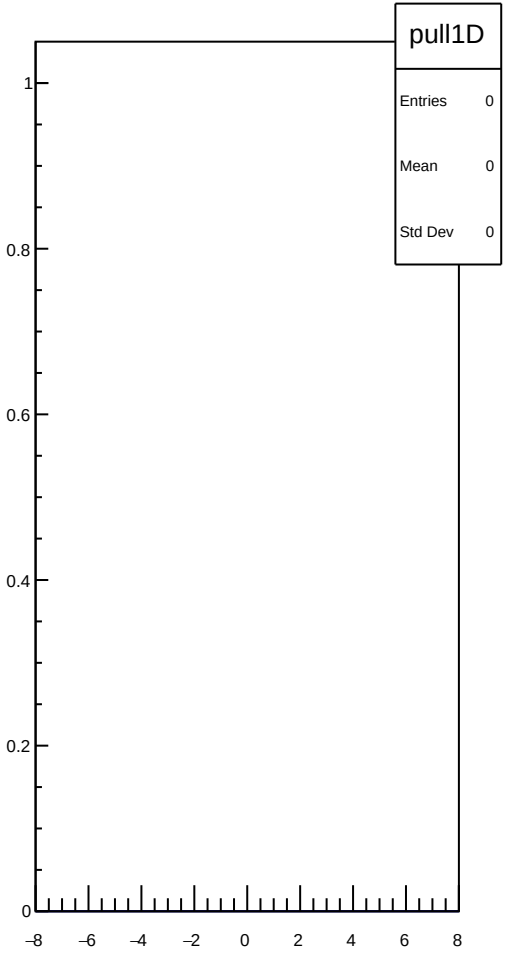
pull1D
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Std Dev 0
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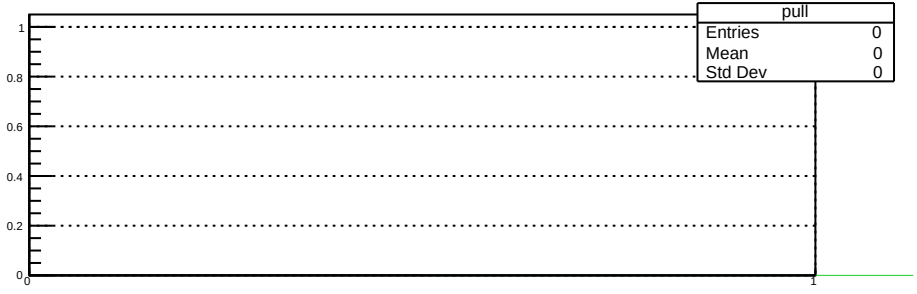
pull
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Mean 0
Std Dev 0
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0.6
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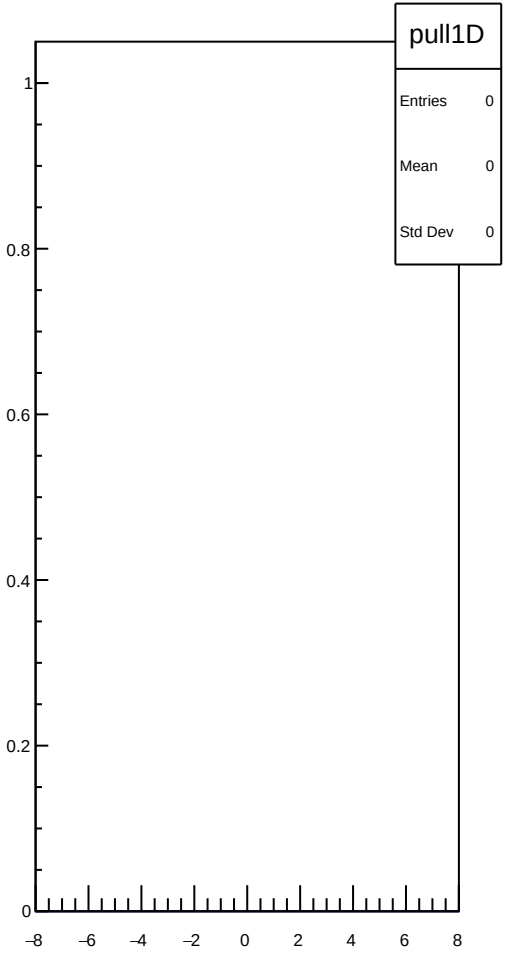
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Entries 0
Mean 0
Std Dev 0
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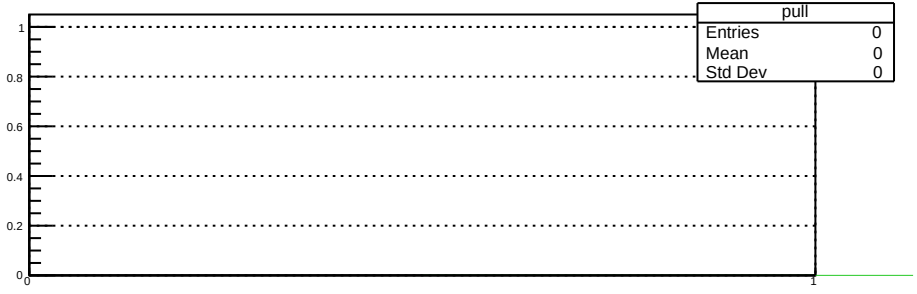
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Std Dev 0
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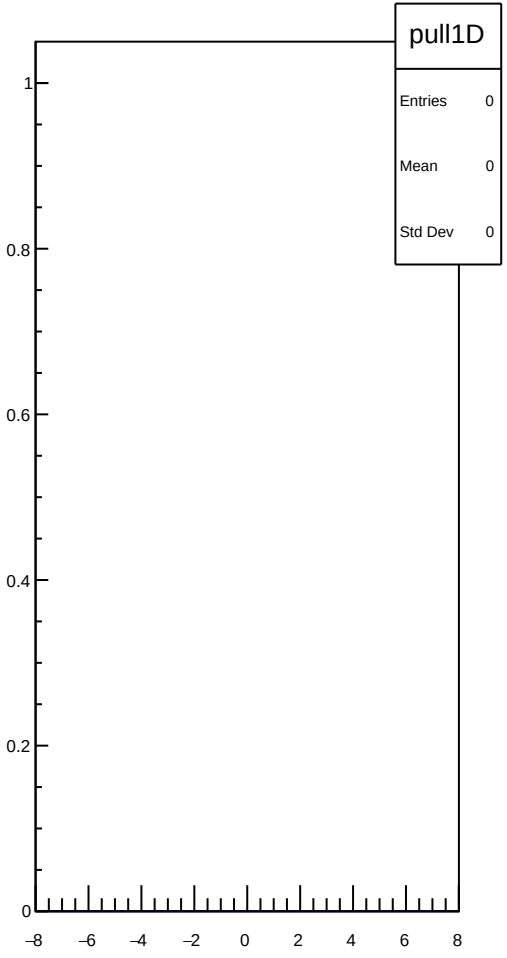
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Entries 0
Mean 0
Std Dev 0
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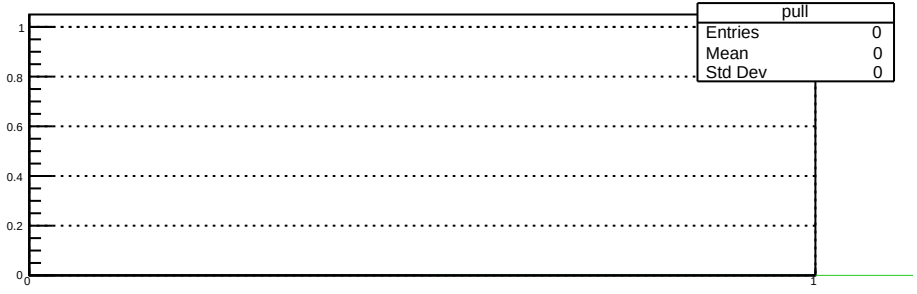
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Std Dev 0
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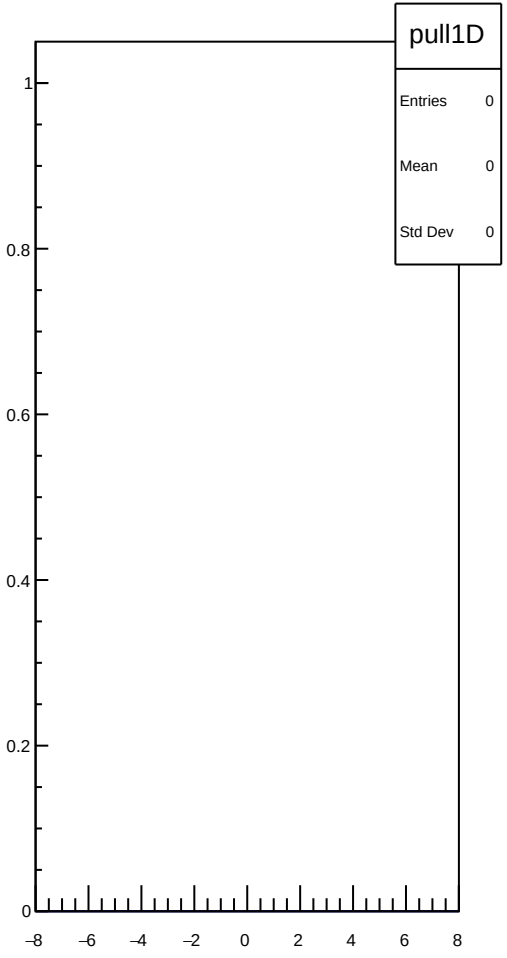
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Std Dev 0
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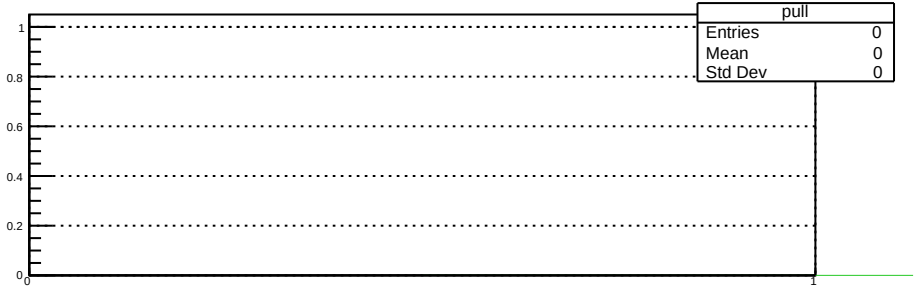
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Std Dev 0
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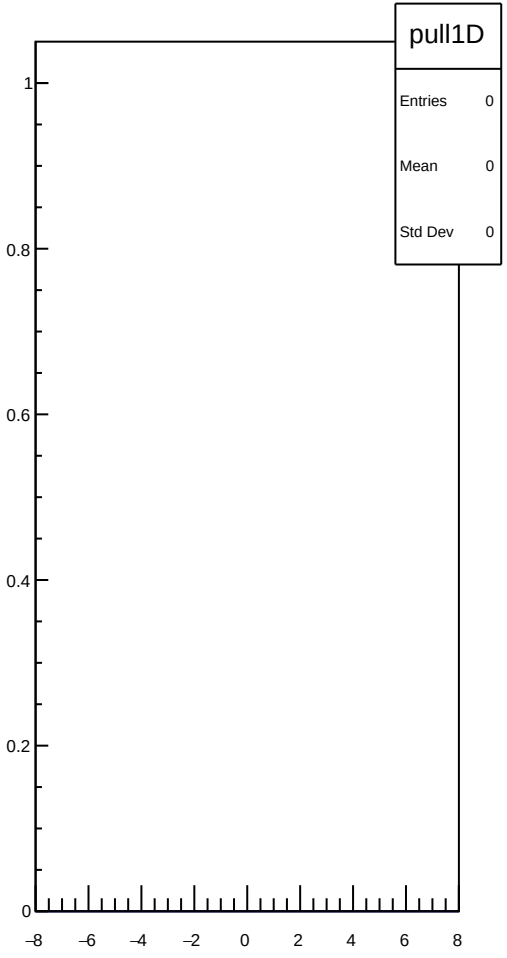
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Mean 0
Std Dev 0
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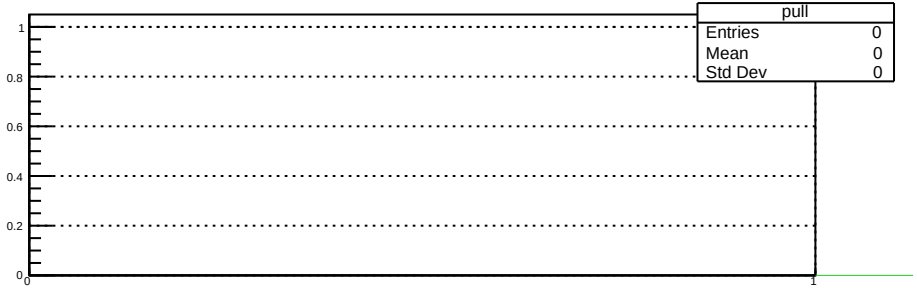
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Mean 0
Std Dev 0
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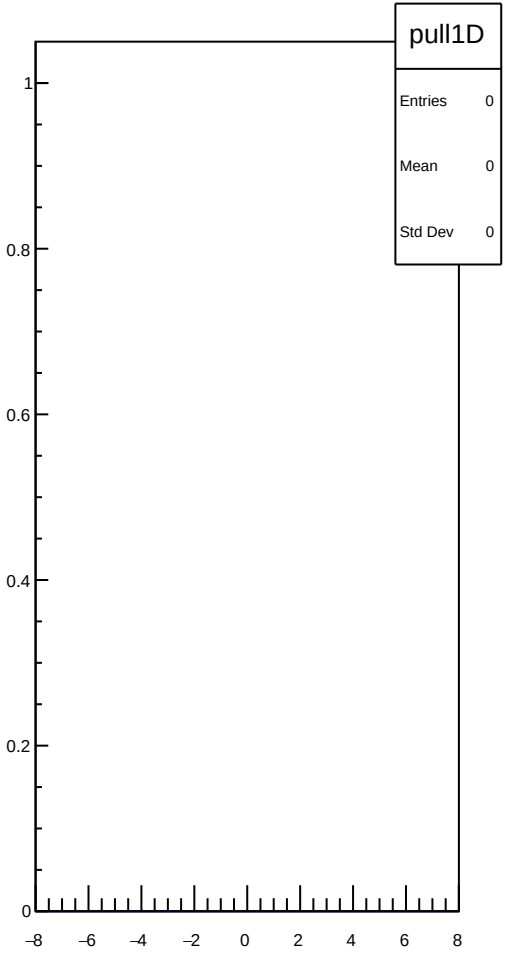
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Mean 0
Std Dev 0
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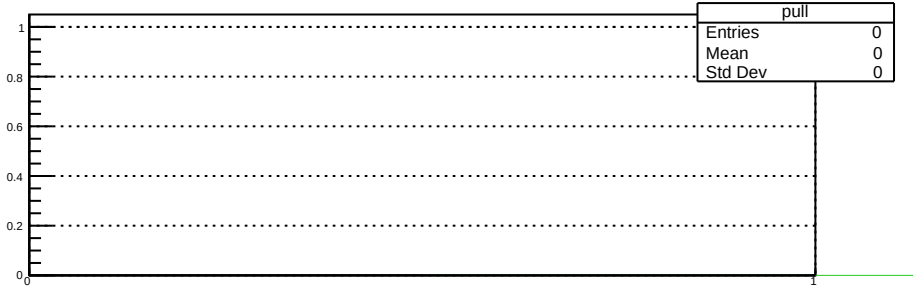
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Mean 0
Std Dev 0
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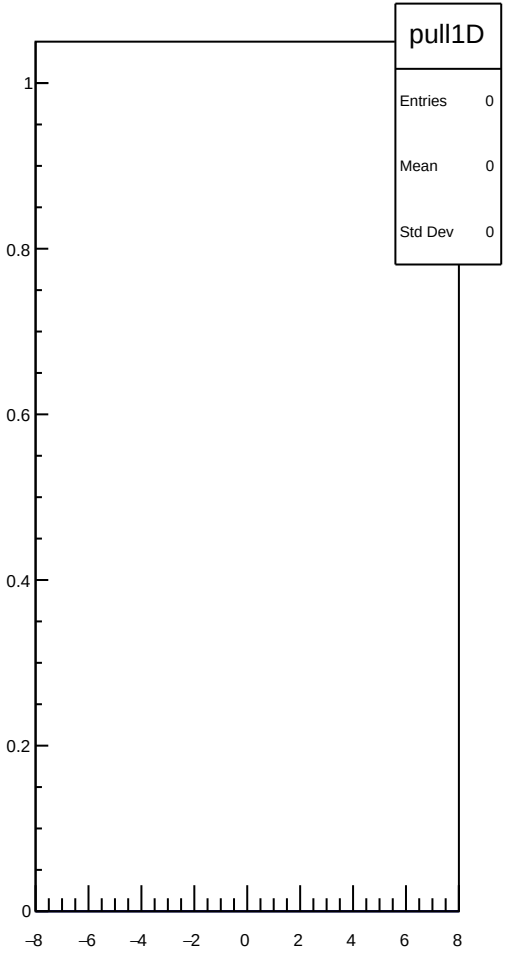
pull1D
Entries 0
Mean 0
Std Dev 0
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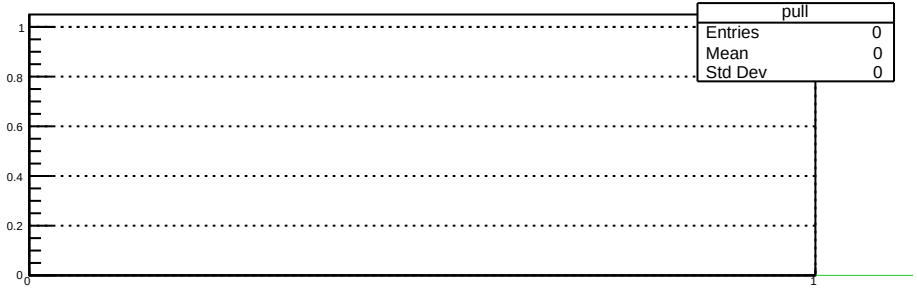
pull
Entries 0
Mean 0
Std Dev 0
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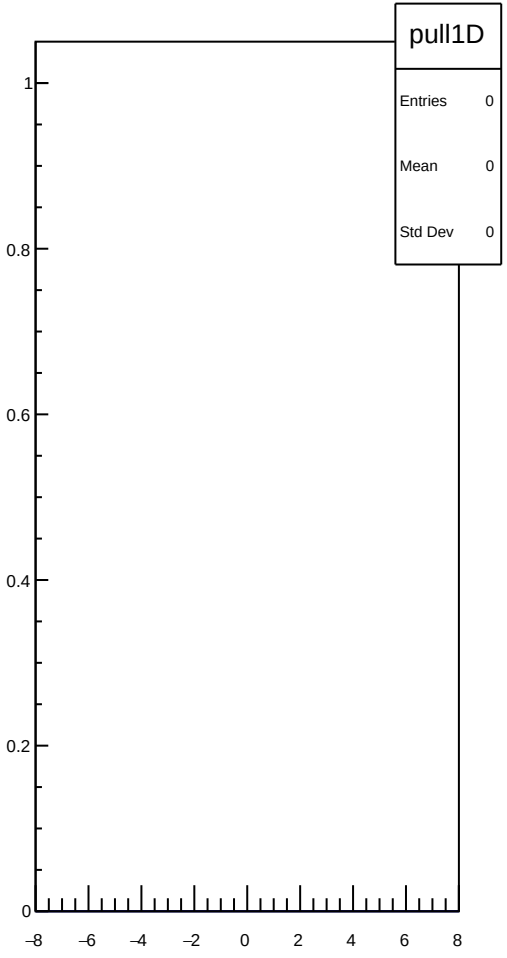
pull1D
Entries 0
Mean 0
Std Dev 0
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–4
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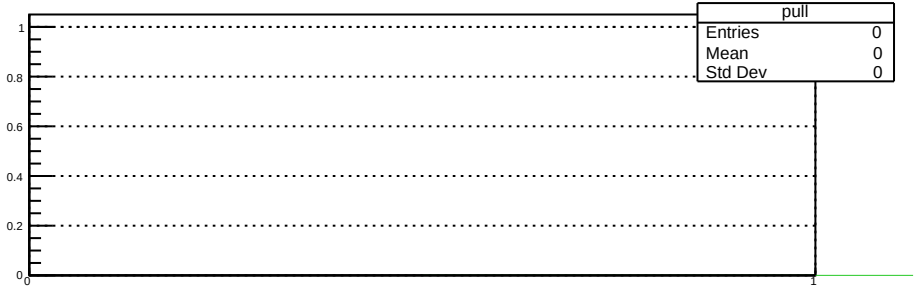
pull
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Std Dev 0
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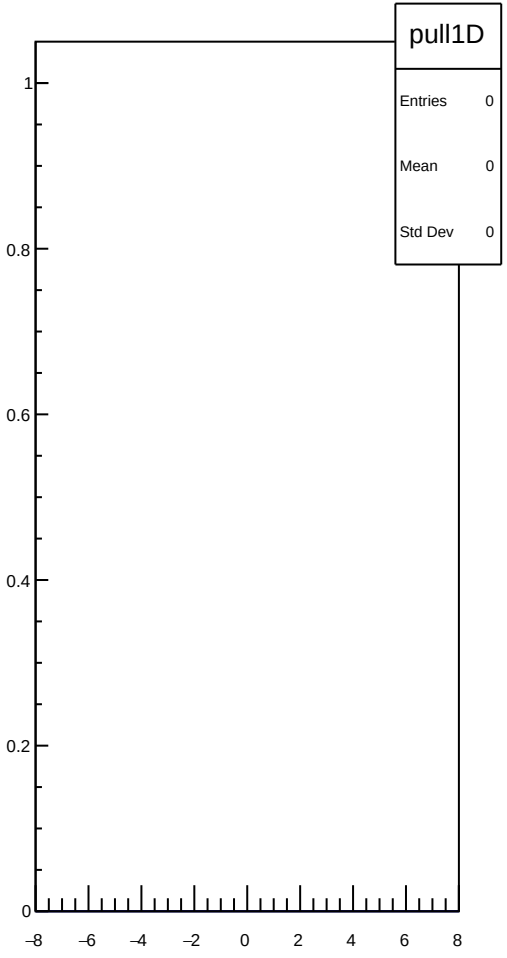
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
–8
–6
–4
–2
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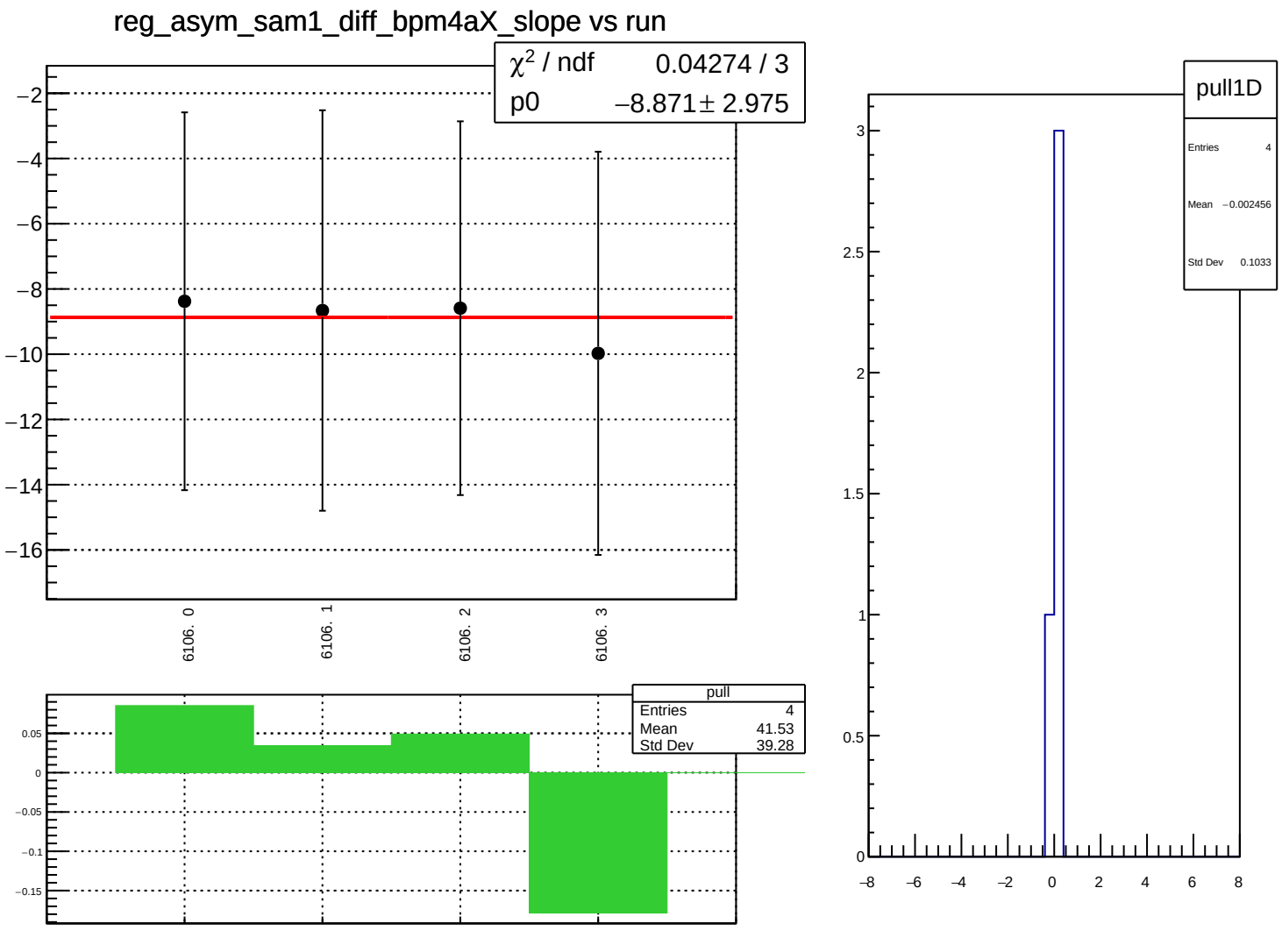
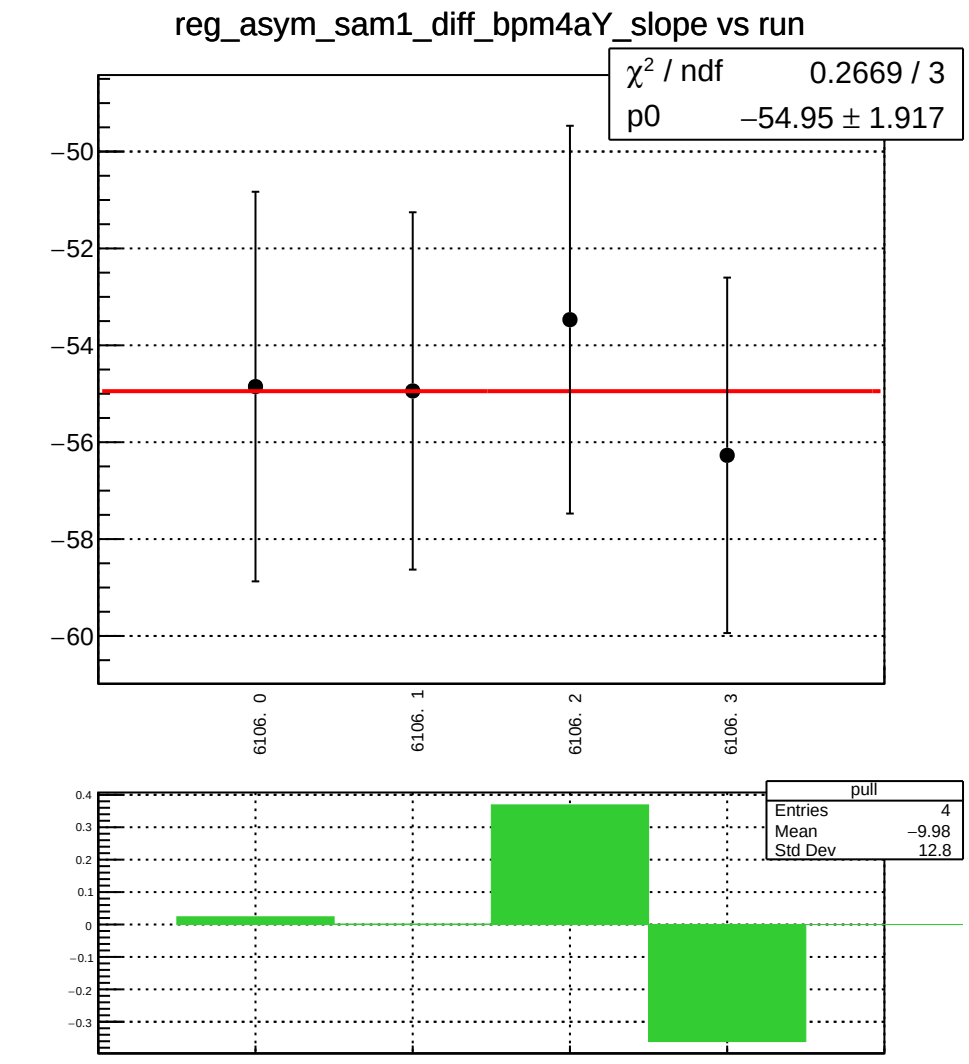
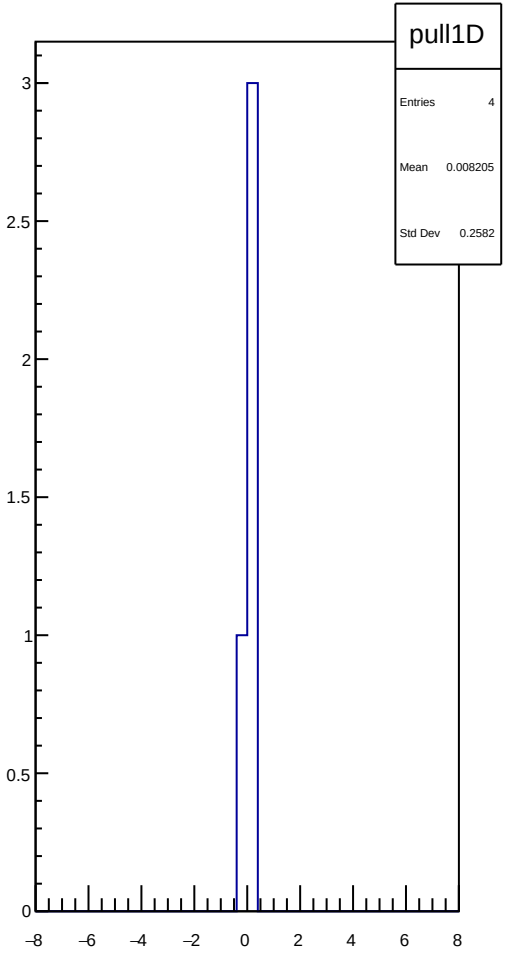
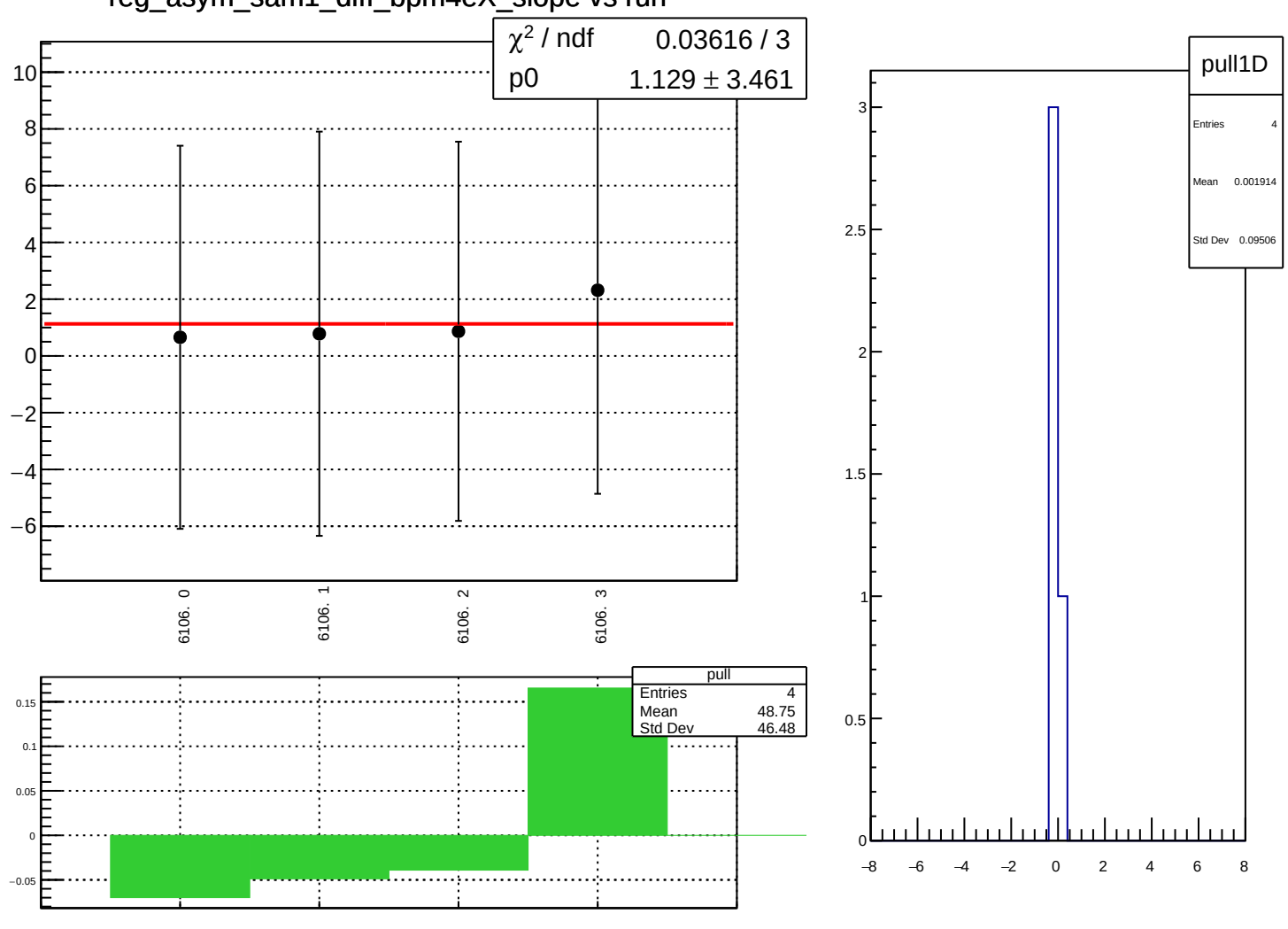
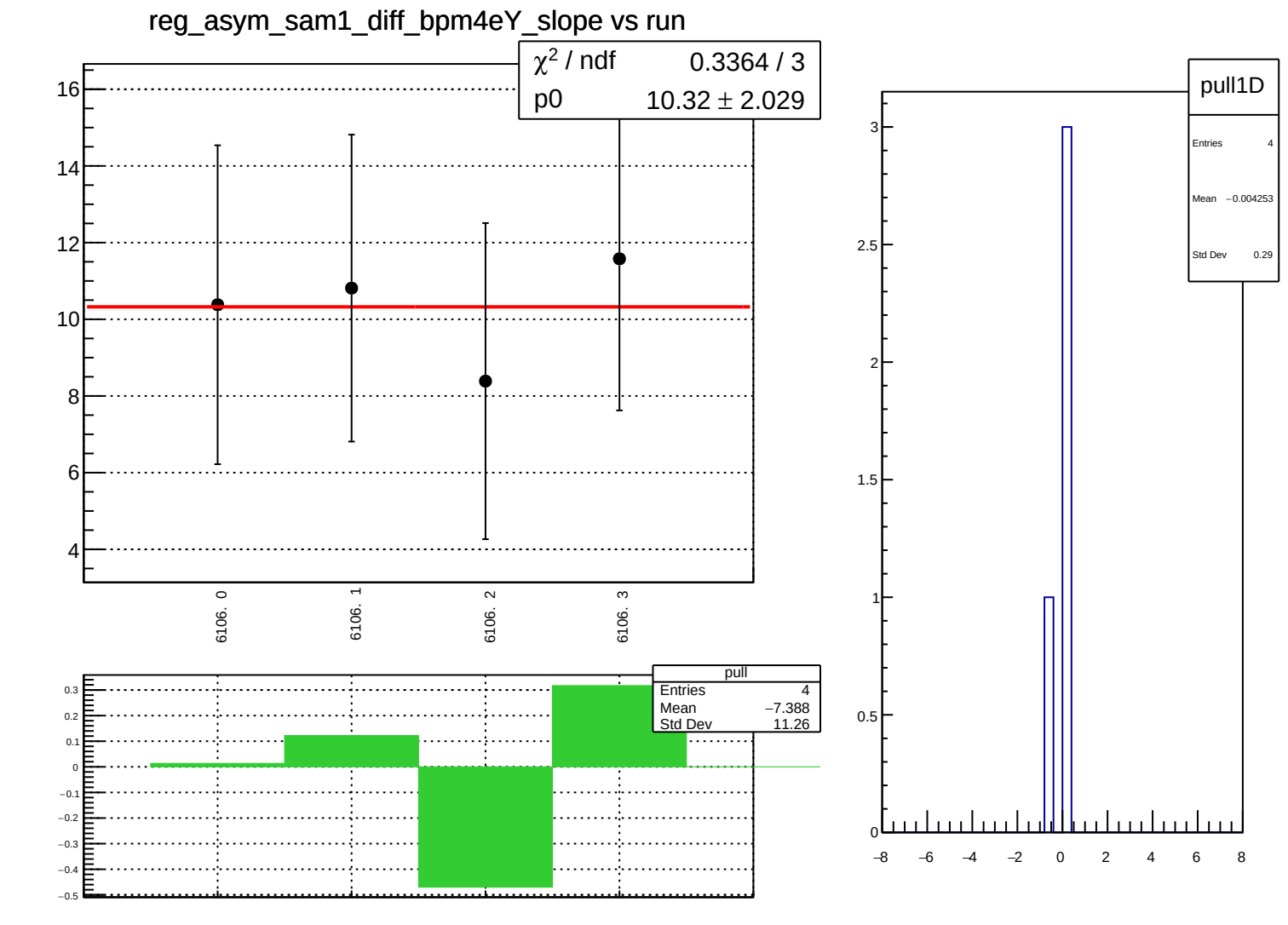
6
8

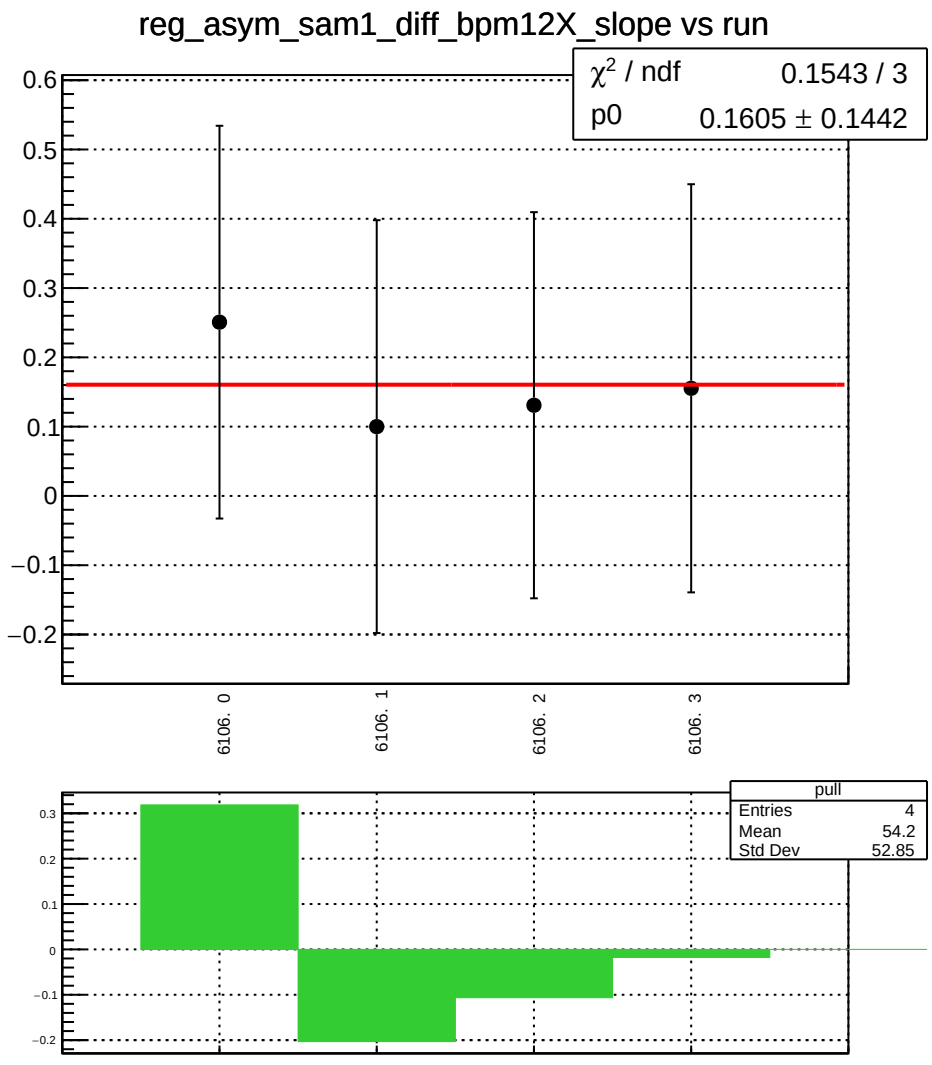

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 0.04274 / 3
p0 −8.871 ± 2.975
−2
−4
−6
−8
−10
−12
−14
−16
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 41.53
Std Dev 39.28
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean −0.002456
Std Dev 0.1033
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

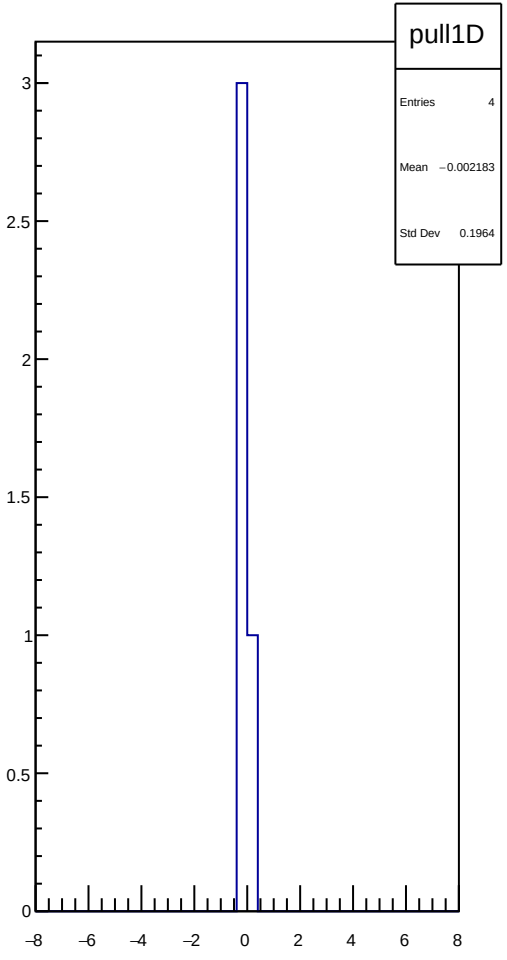

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 0.2669 / 3
p0 −54.95 ± 1.917
−50
−52
−54
−56
−58
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −9.98
Std Dev 12.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3


pull1D
Entries 4
Mean 0.008205
Std Dev 0.2582
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 0.03616 / 3
p0 1.129 ± 3.461
10
8
6
4
2
0
−2
−4
−6
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 48.75
Std Dev 46.48
0.15
0.1
0.05
0
−0.05
pull1D
Entries 4
Mean 0.001914
Std Dev 0.09506
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 0.3364 / 3
p0 10.32 ± 2.029
16
14
12
10
8
6
4
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −7.388
Std Dev 11.26
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 4
Mean −0.004253
Std Dev 0.29
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 0.1543 / 3
p0 0.1605 ± 0.1442
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 54.2
Std Dev 52.85
0.3
0.2
0.1
0
−0.1
−0.2


pull1D
Entries 4
Mean −0.002183
Std Dev 0.1964
3
2.5
2
1.5
1
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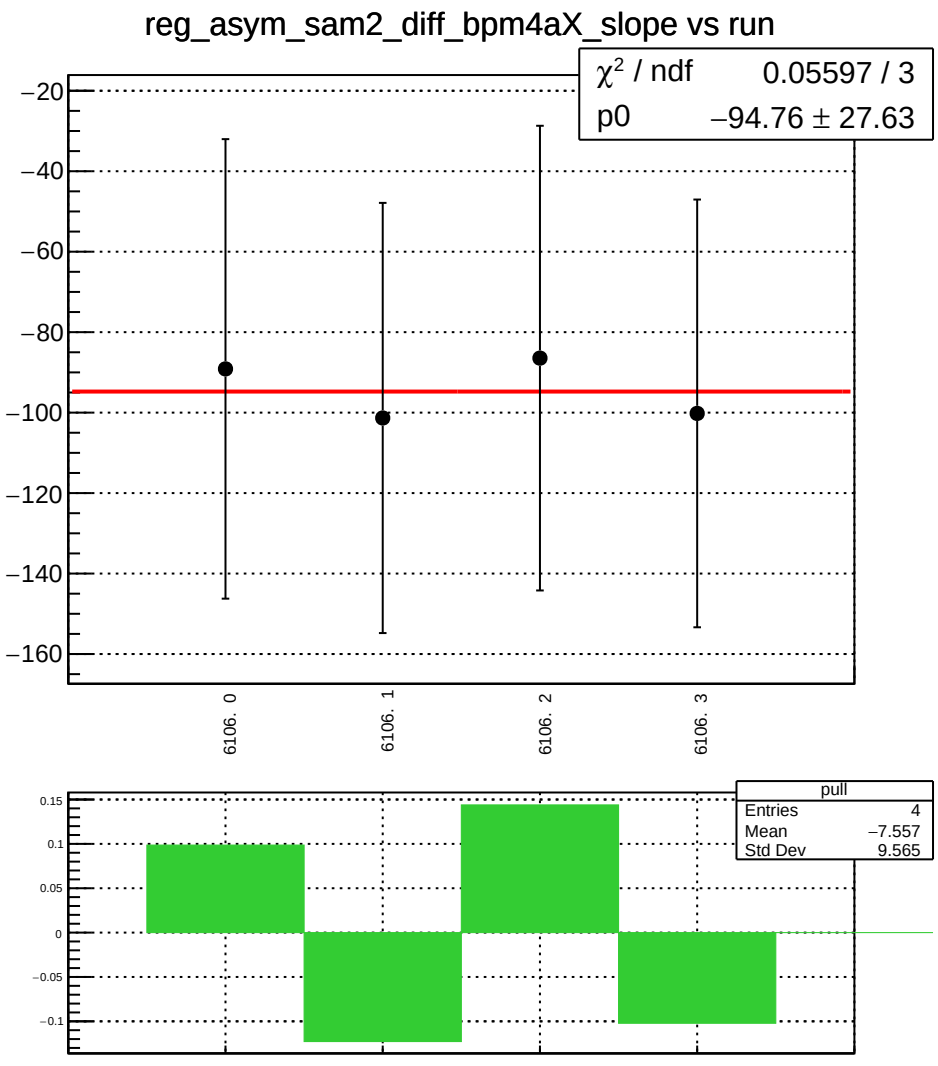
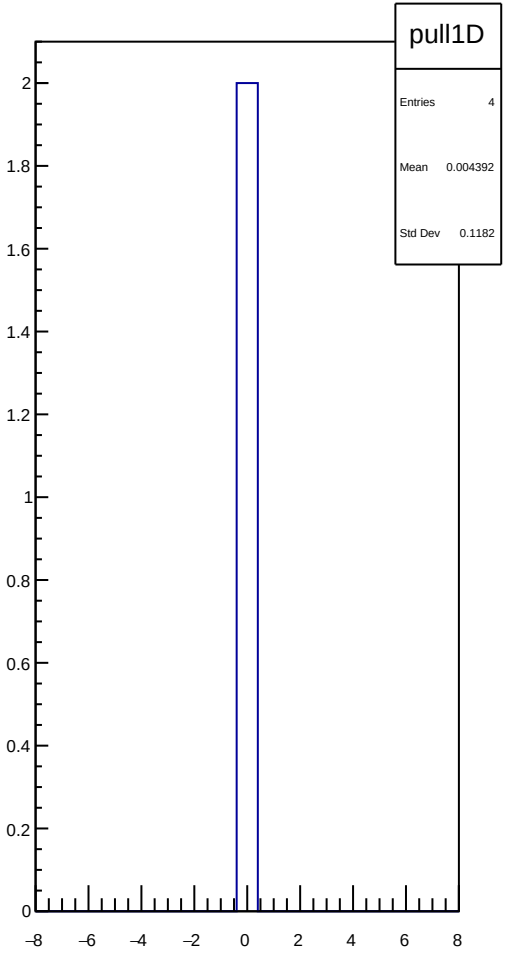
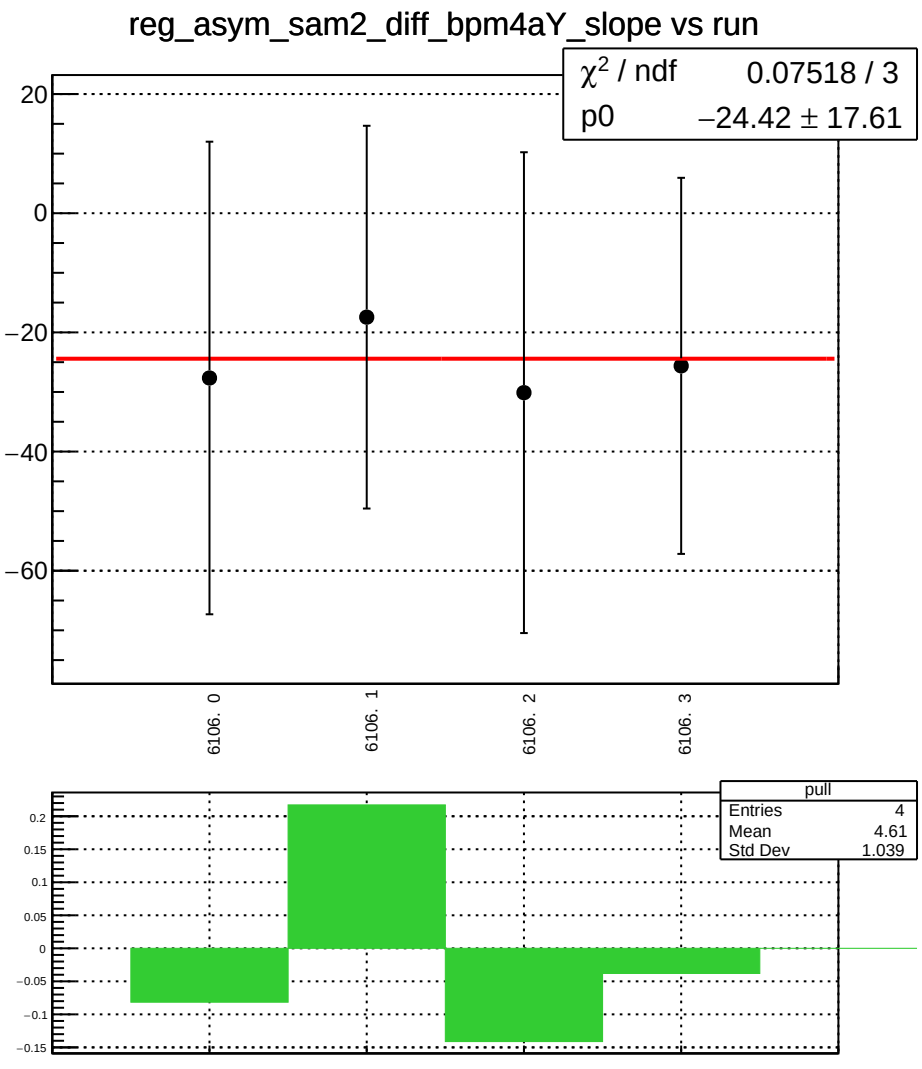
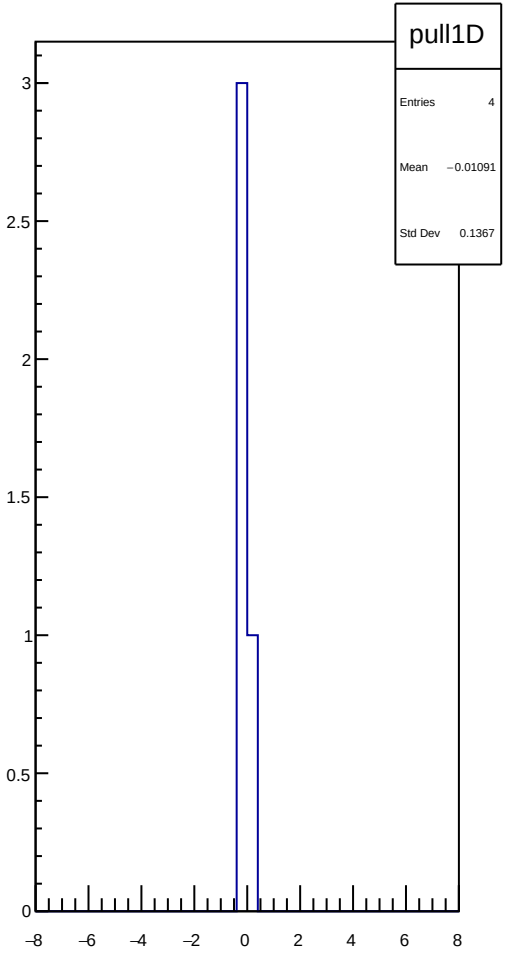
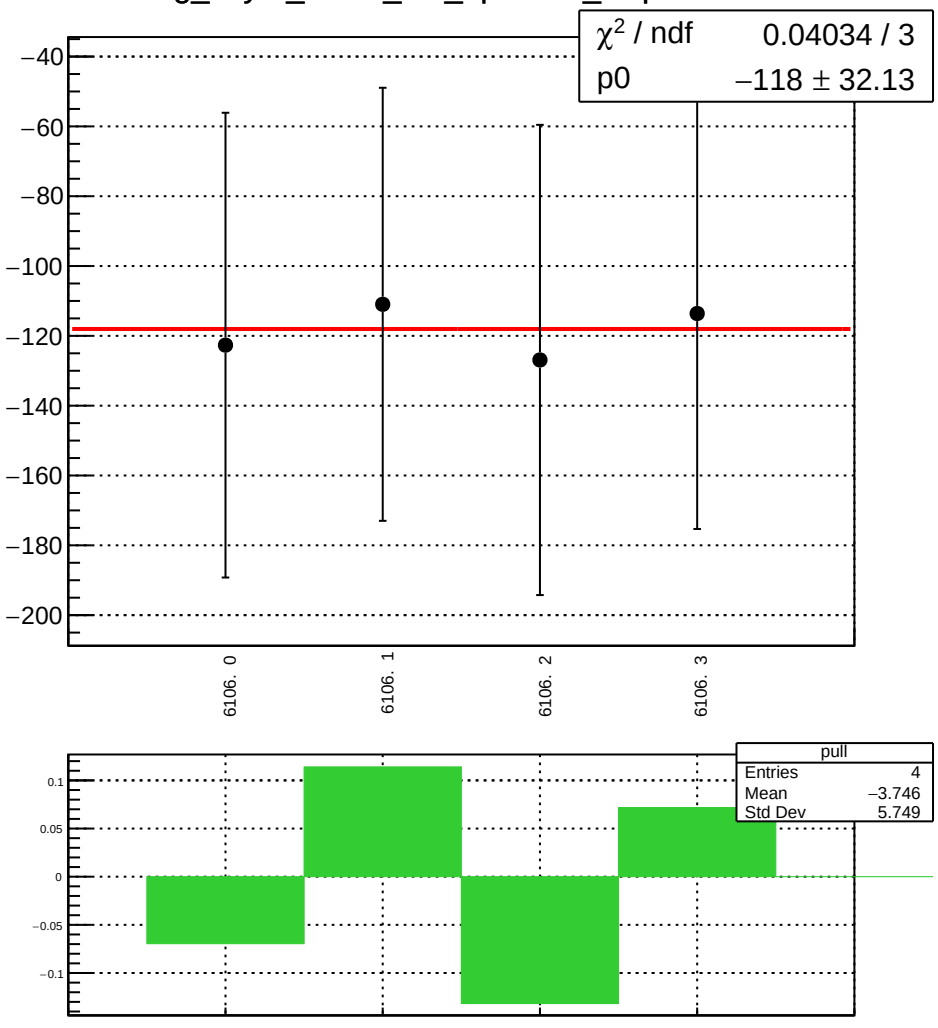
−6
−4
−2
0
2
4
6
8

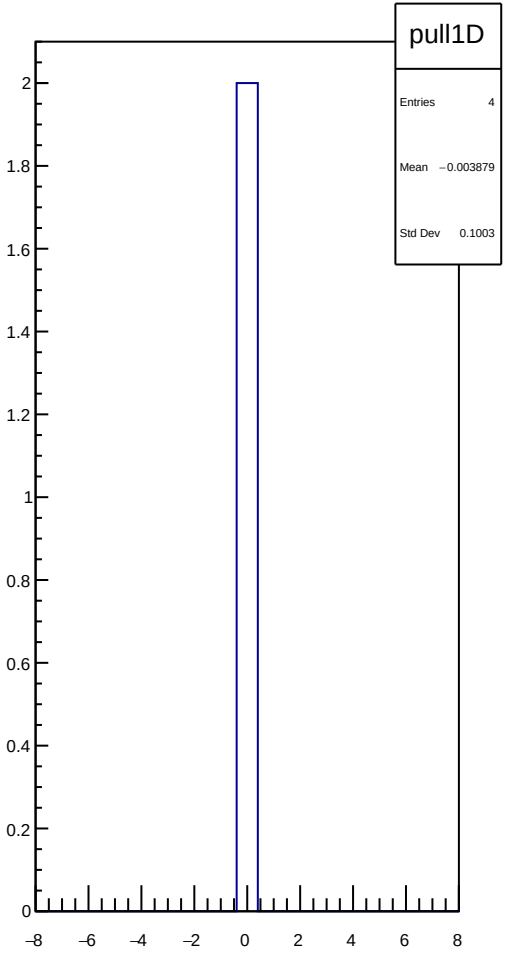

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 0.05597 / 3
p0 −94.76 ± 27.63
−20
−40
−60
−80
−100
−120
−140
−160
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −7.557
Std Dev 9.565
0.15
0.1
0.05
0
−0.05
−0.1

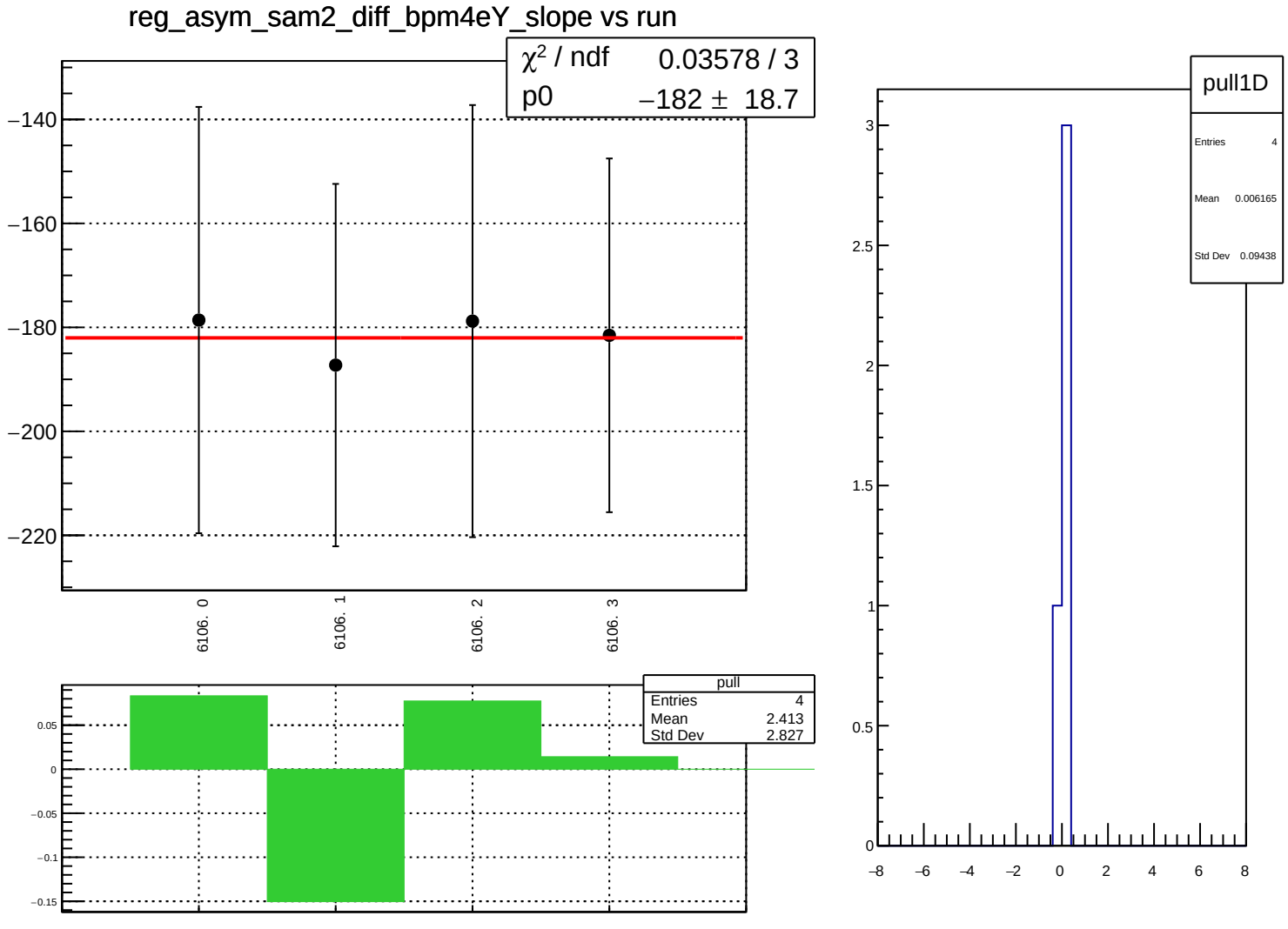

pull1D
Entries 4
Mean 0.004392
Std Dev 0.1182
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

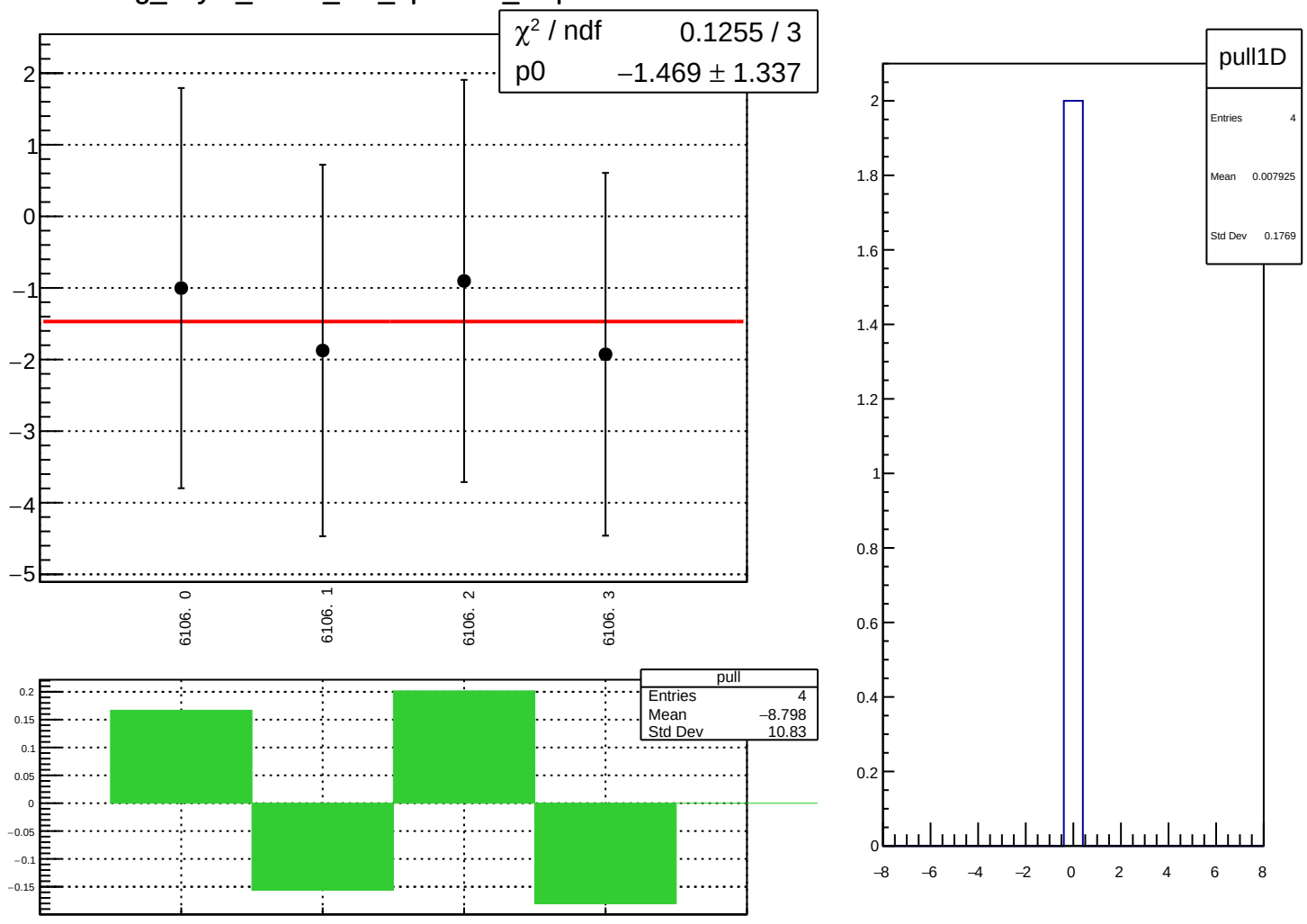

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.07518 / 3
p0 −24.42 ± 17.61
20
0
−20
−40
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 4.61
Std Dev 1.039
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

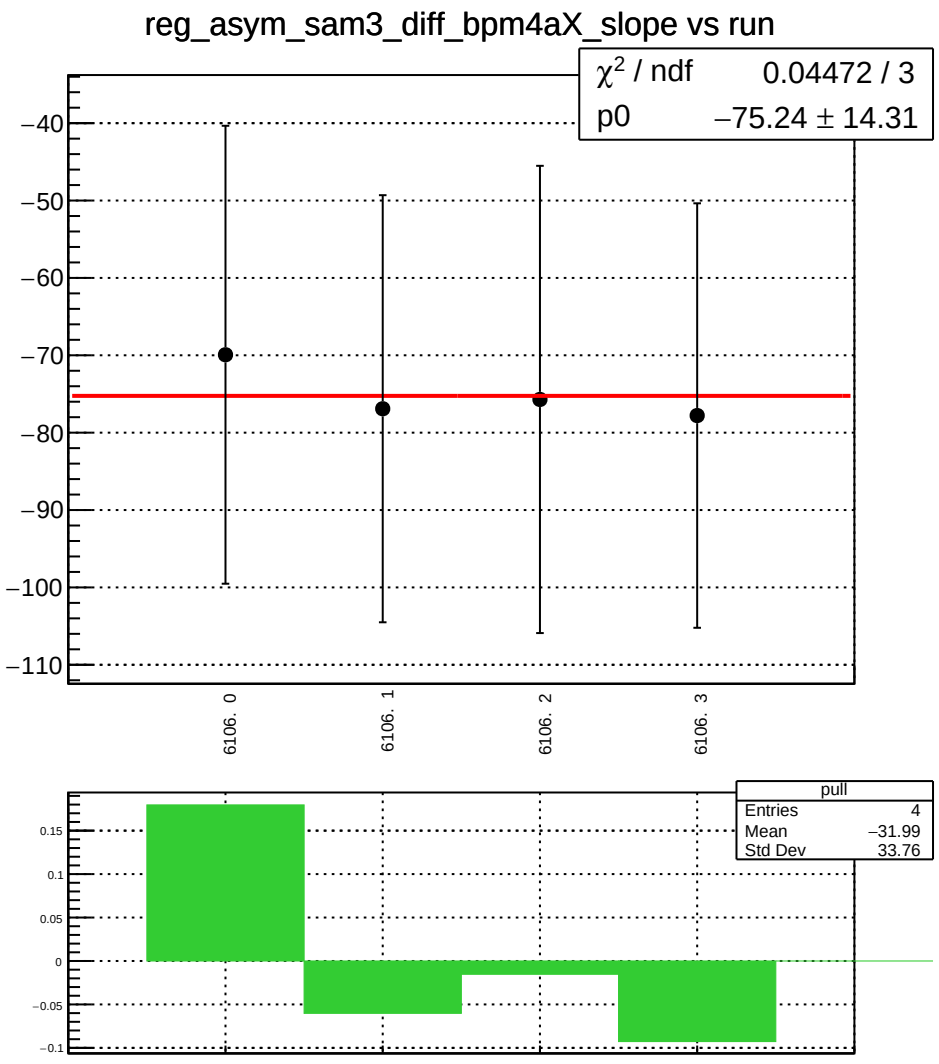

pull1D
Entries 4
Mean −0.01091
Std Dev 0.1367
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

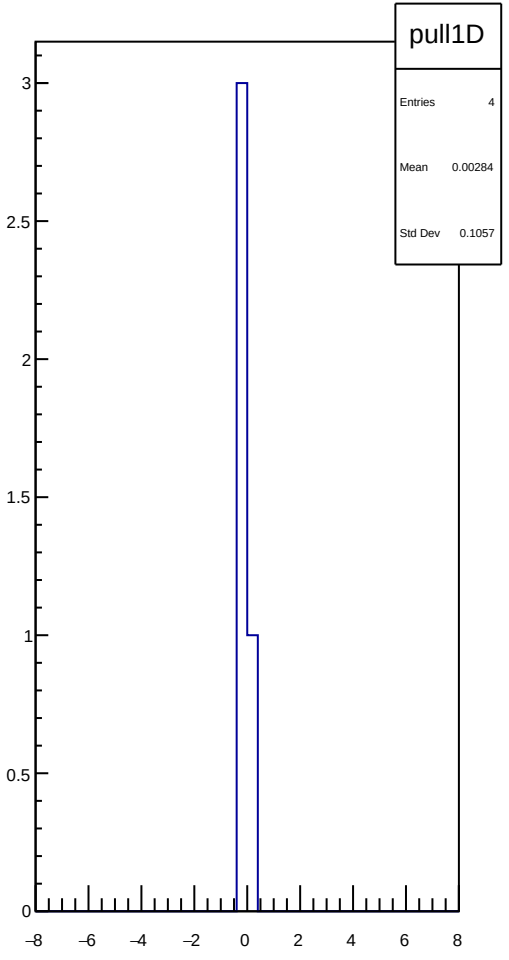

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.04034 / 3
p0 −118 ± 32.13
−40
−60
−80
−100
−120
−140
−160
−180
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.746
Std Dev 5.749
0.1
0.05
0
−0.05
−0.1

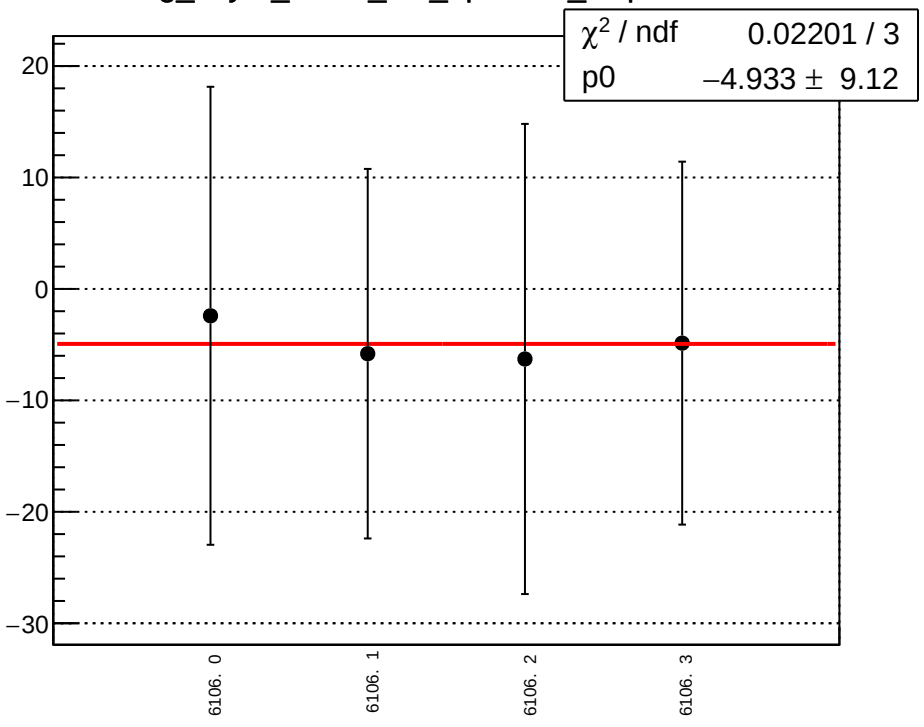

pull1D
Entries 4
Mean −0.003879
Std Dev 0.1003
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

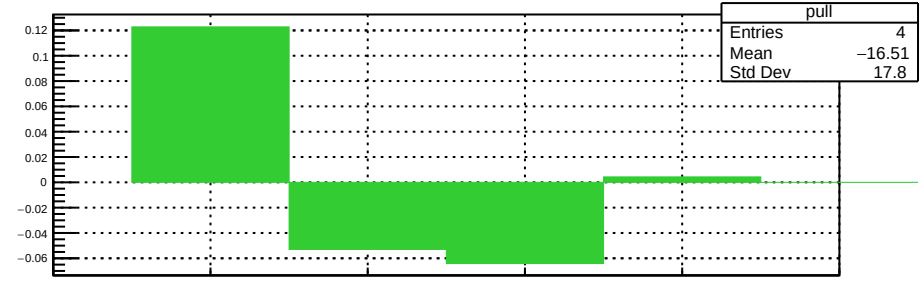

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.03578 / 3
p0 −182 ± 18.7
−140
−160
−180
−200
−220
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 2.413
Std Dev 2.827
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.006165
Std Dev 0.09438
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

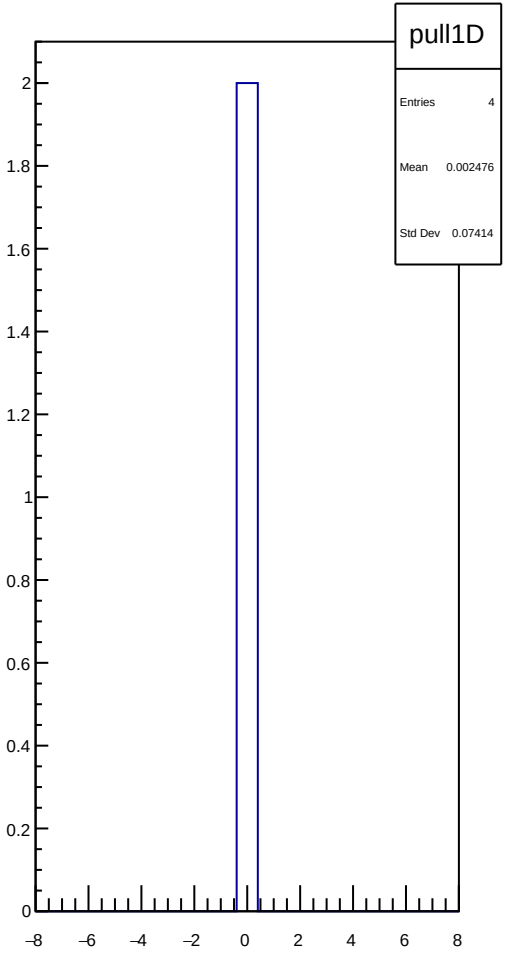

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.1255 / 3
p0 −1.469 ± 1.337
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −8.798
Std Dev 10.83
pull1D
Entries 4
Mean 0.007925
Std Dev 0.1769

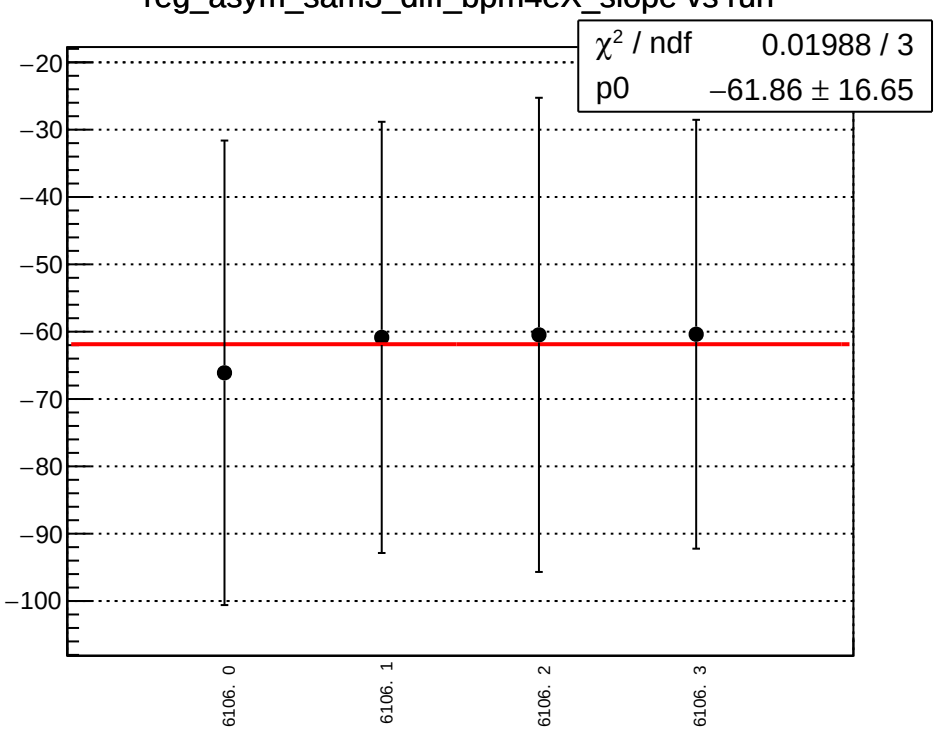

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0.04472 / 3
p0 −75.24 ± 14.31
−40
−50
−60
−70
−80
−90
−100
−110
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −31.99
Std Dev 33.76
0.15
0.1
0.05
0
−0.05
−0.1

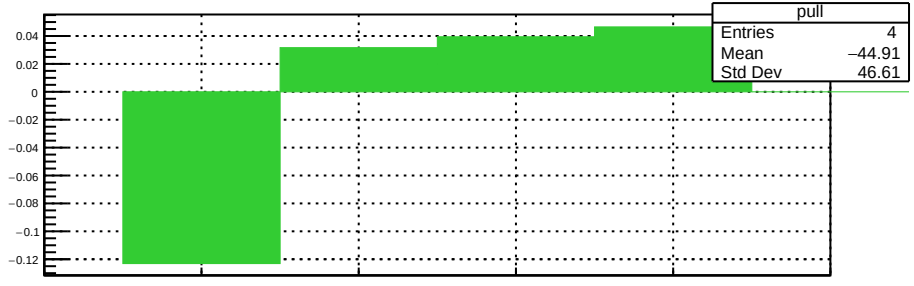

pull1D
Entries 4
Mean 0.00284
Std Dev 0.1057
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

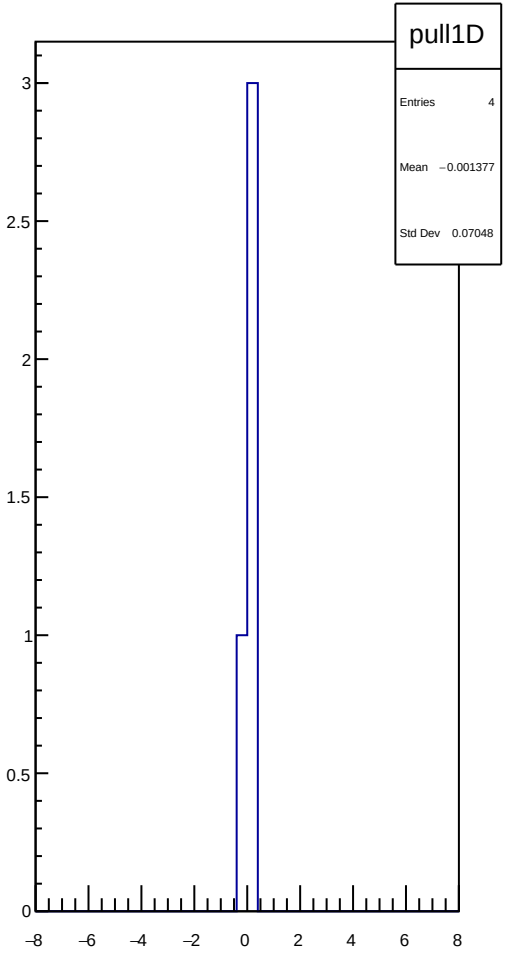

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.02201 / 3
p0 −4.933 ± 9.12
20
10
0
−10
−20
−30
6106. 0
6106. 1
6106. 2
6106. 3

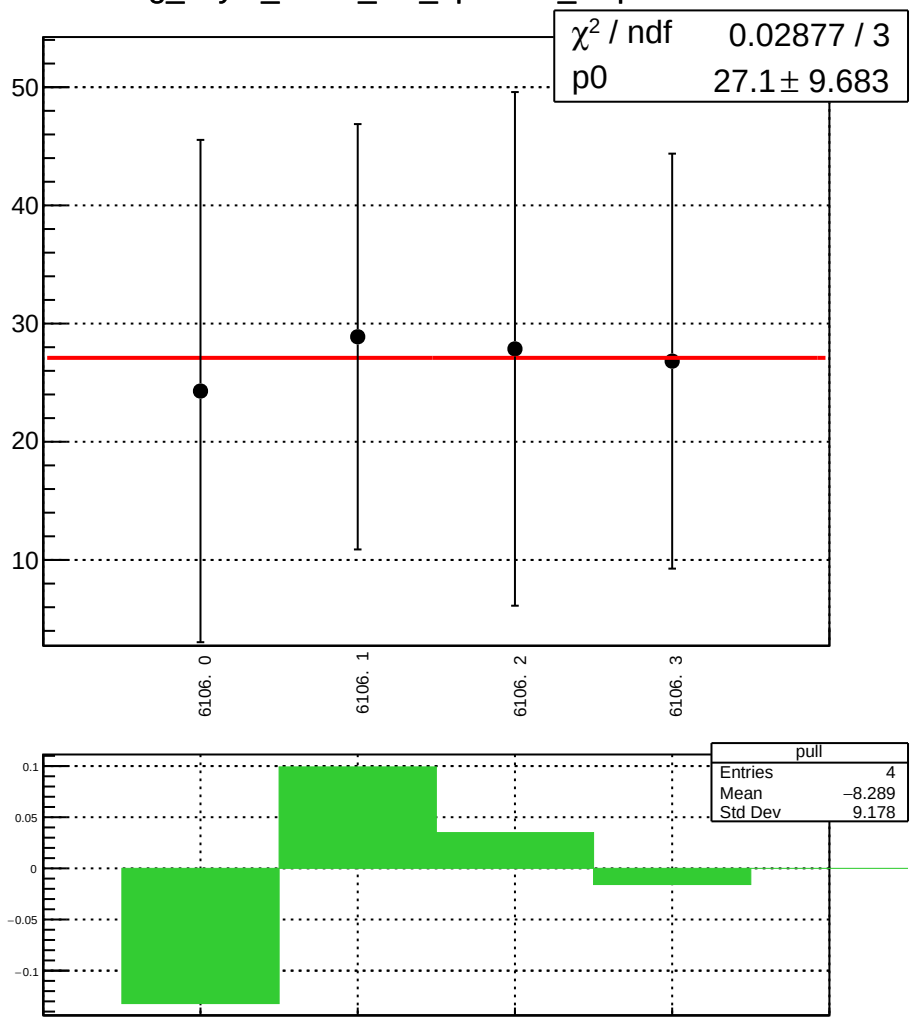

pull
Entries 4
Mean −16.51
Std Dev 17.8
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

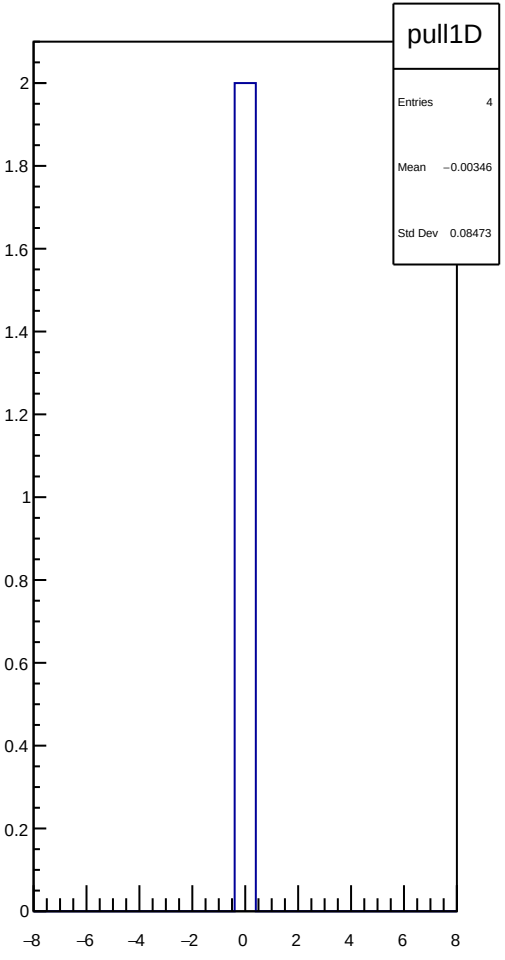

pull1D
Entries 4
Mean 0.002476
Std Dev 0.07414
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

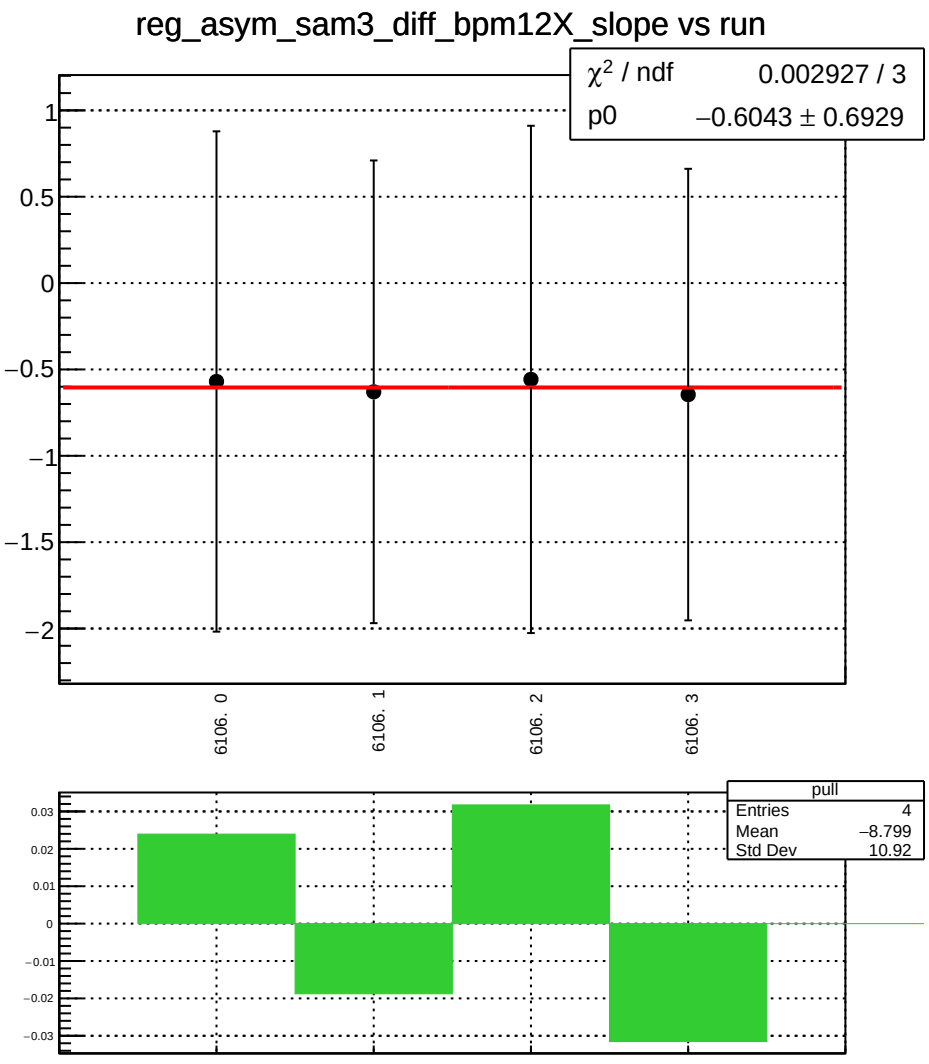

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.01988 / 3
p0 −61.86 ± 16.65
−20
−30
−40
−50
−60
−70
−80
−90
−100
6106. 0
6106. 1
6106. 2
6106. 3

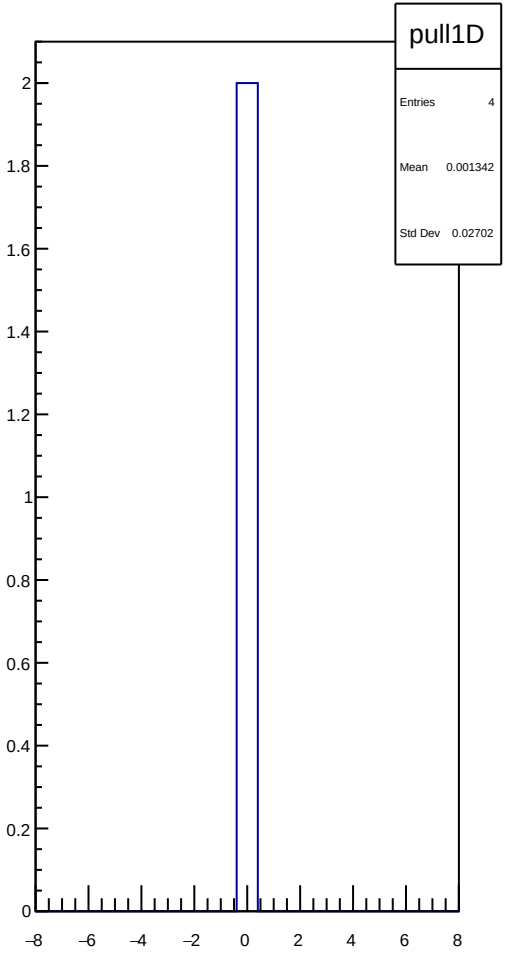

pull
Entries 4
Mean −44.91
Std Dev 46.61
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12

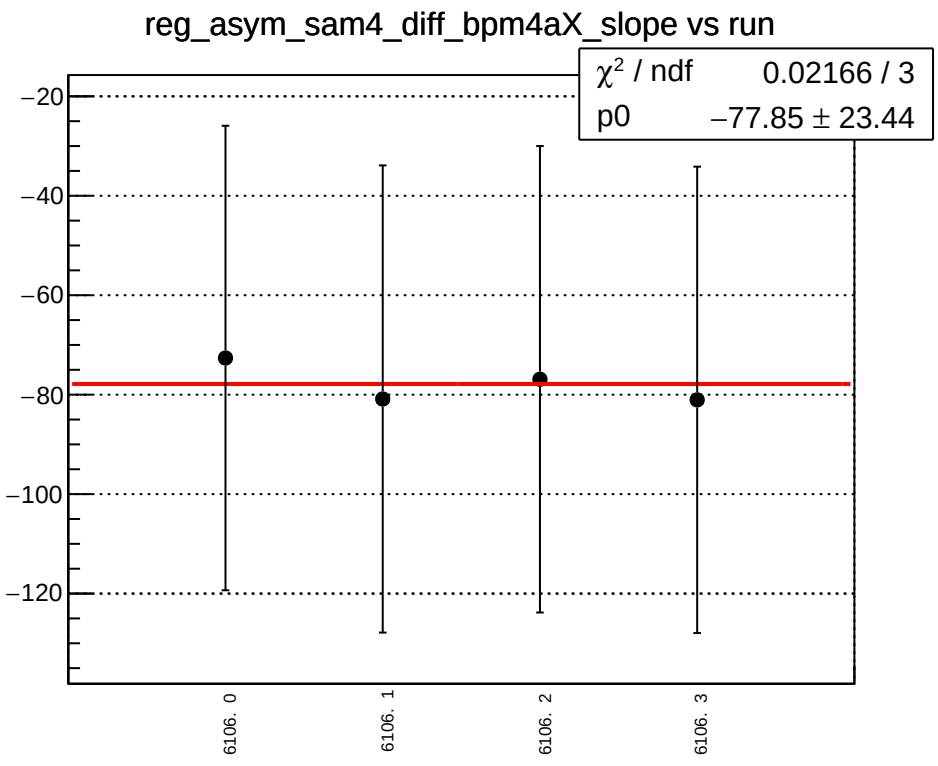

pull1D
Entries 4
Mean −0.001377
Std Dev 0.07048
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

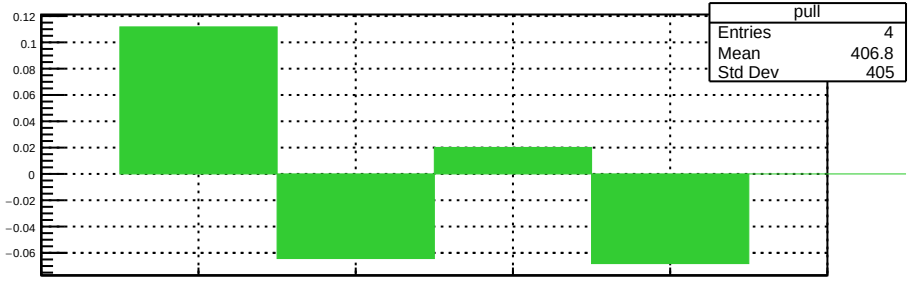

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.02877 / 3
p0 27.1 ± 9.683
50
40
30
20
10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −8.289
Std Dev 9.178
0.1
0.05
0
−0.05
−0.1

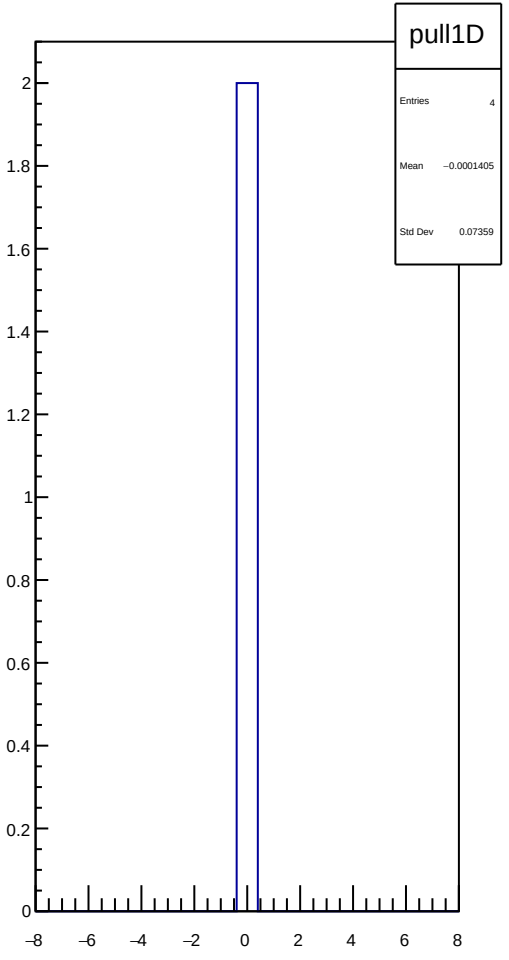

pull1D
Entries 4
Mean −0.00346
Std Dev 0.08473
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

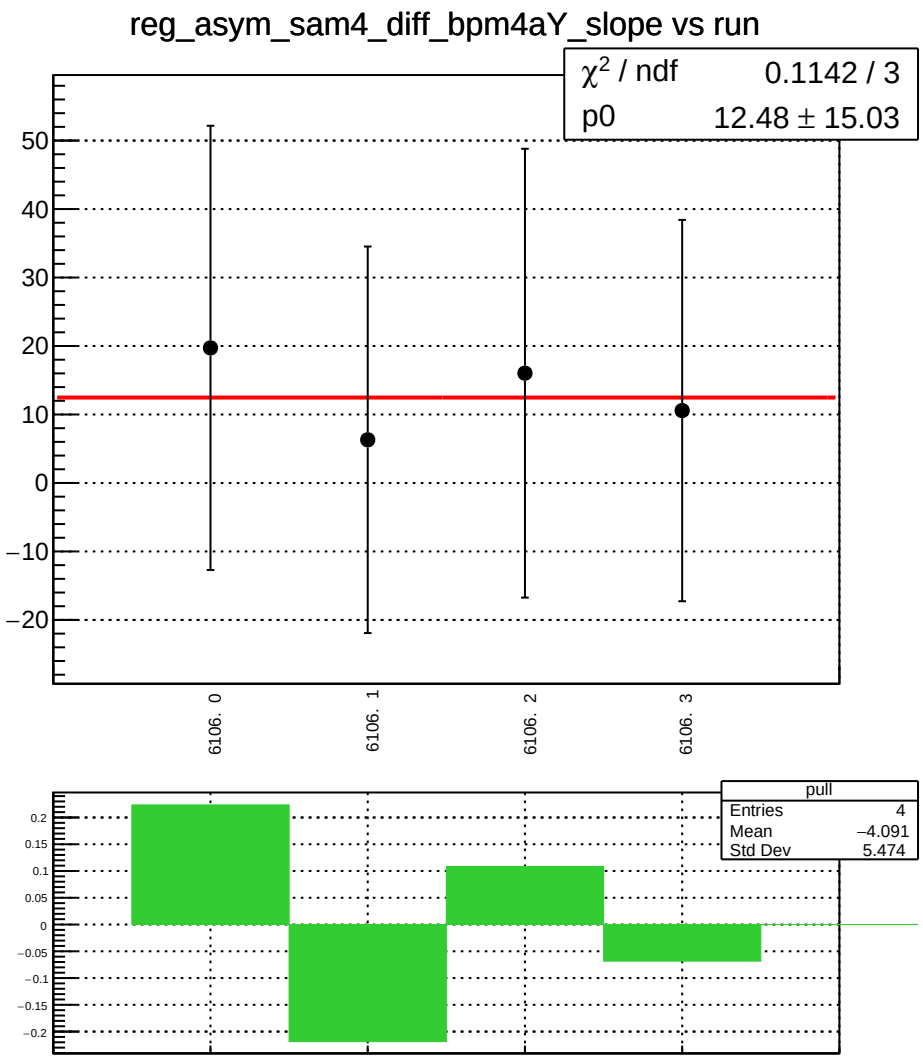

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.002927 / 3
p0 −0.6043 ± 0.6929
1
0.5
0
−0.5
−1
−1.5
−2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −8.799
Std Dev 10.92
0.03
0.02
0.01
0
−0.01
−0.02
−0.03

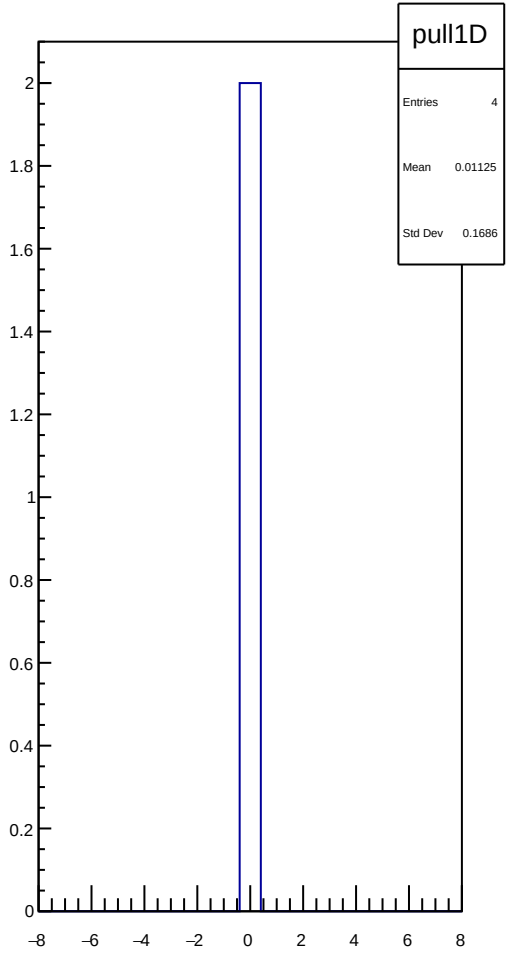

pull1D
Entries 4
Mean 0.001342
Std Dev 0.02702
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

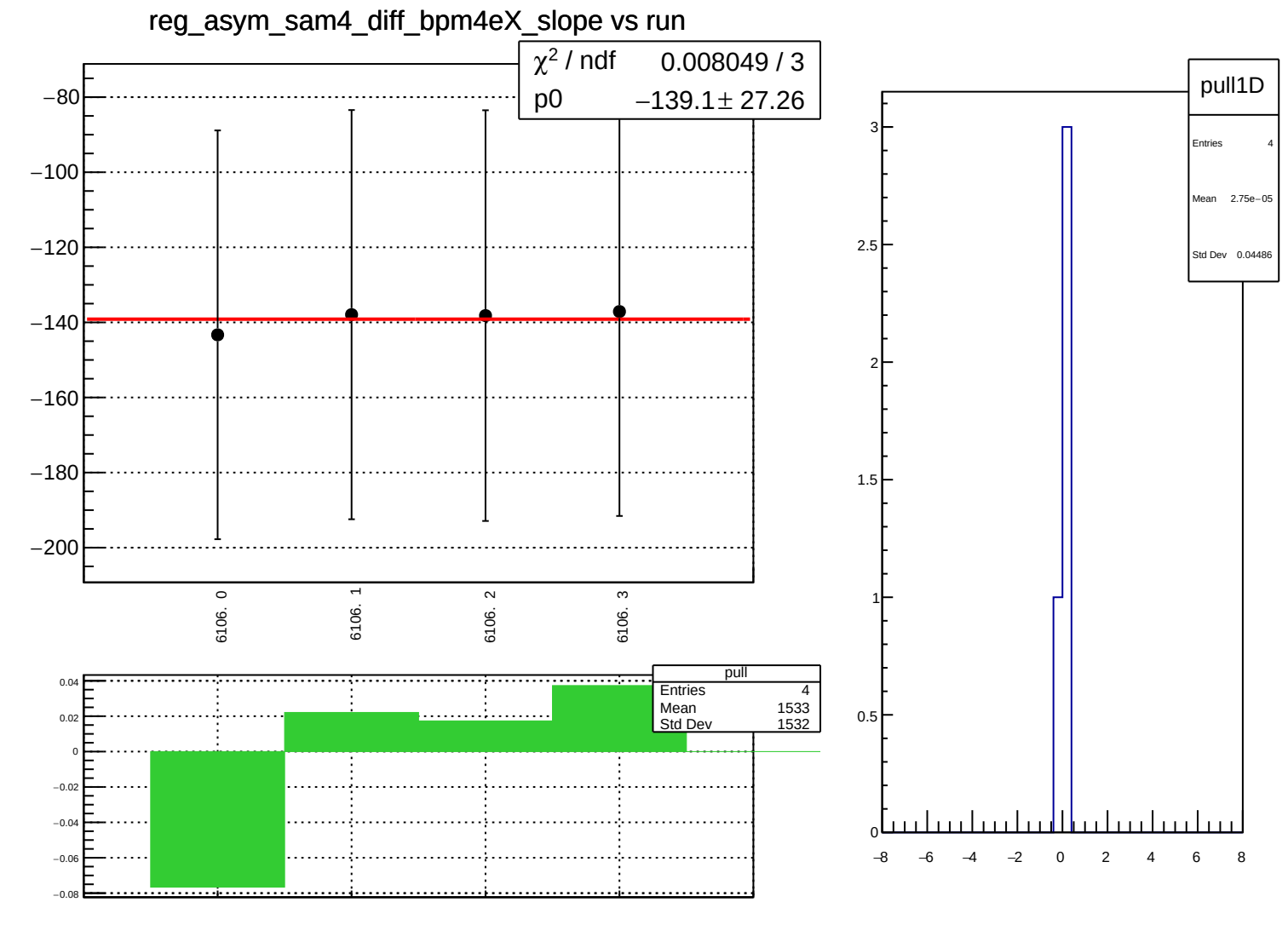

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 0.02166 / 3
p0 −77.85 ± 23.44
−20
−40
−60
−80
−100
−120
6106. 0
6106. 1
6106. 2
6106. 3

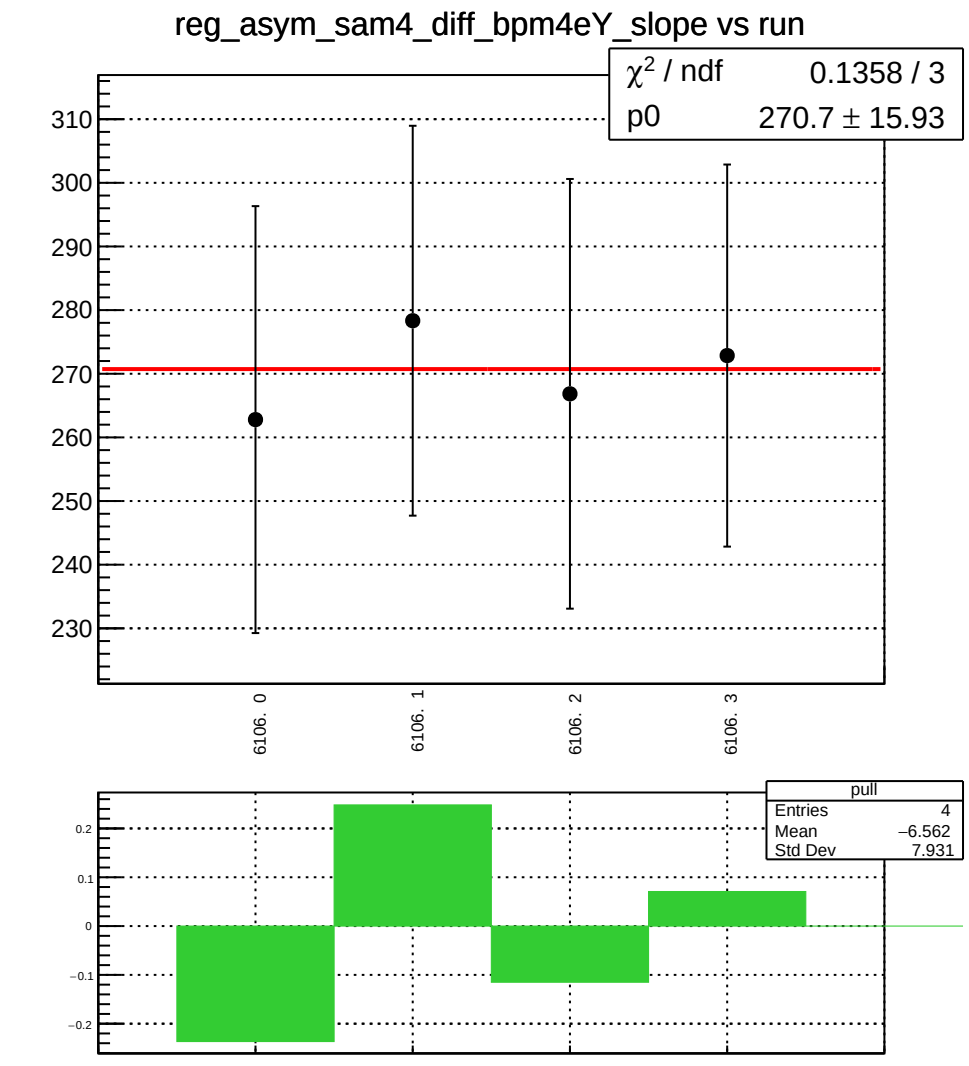

pull
Entries 4
Mean 406.8
Std Dev 405
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

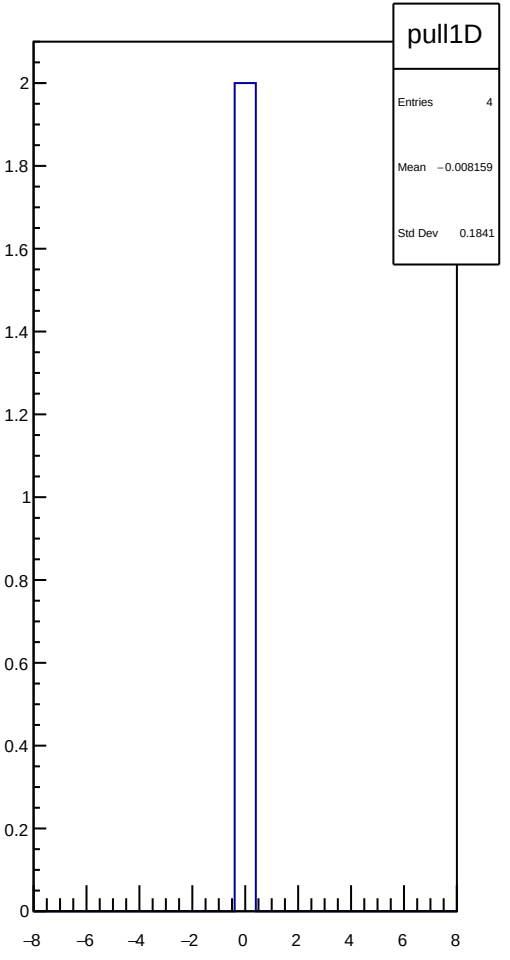

pull1D
Entries 4
Mean −0.0001405
Std Dev 0.07359
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

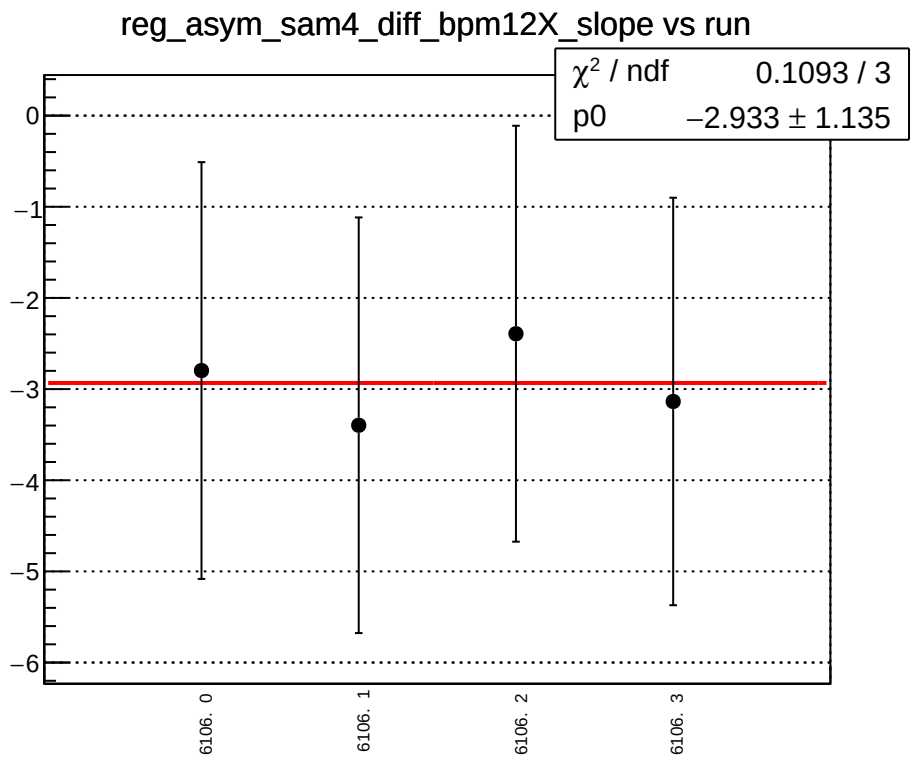

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.1142 / 3
p0 12.48 ± 15.03
50
40
30
20
10
0
−10
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.091
Std Dev 5.474
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

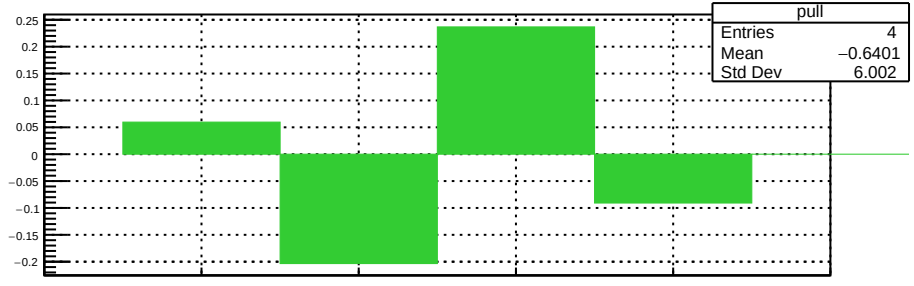

pull1D
Entries 4
Mean 0.01125
Std Dev 0.1686
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

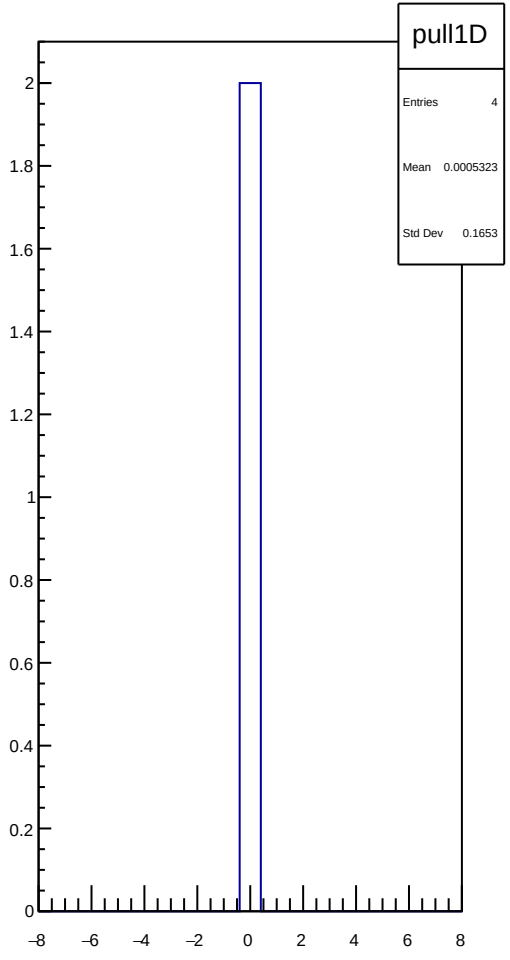

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.008049 / 3
p0 −139.1± 27.26
−80
−100
−120
−140
−160
−180
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 1533
Std Dev 1532
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean 2.75e−05
Std Dev 0.04486
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

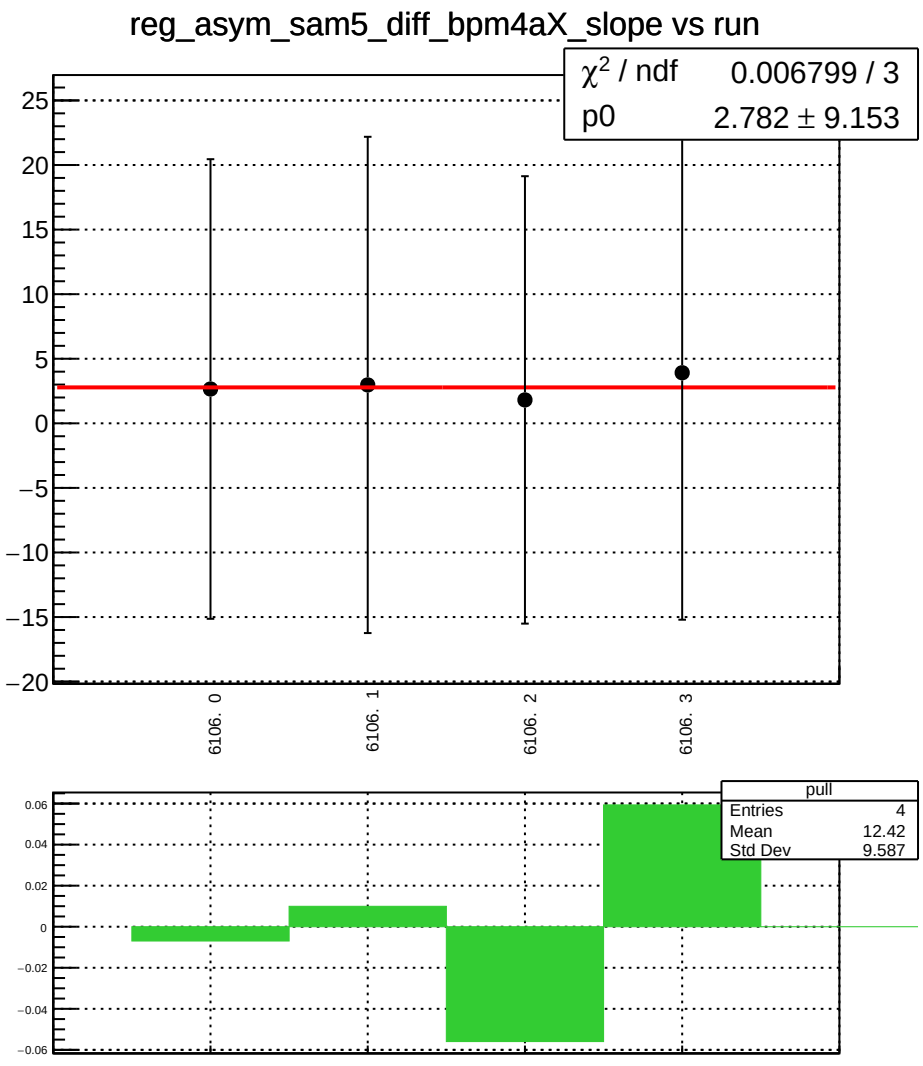

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.1358 / 3
p0 270.7 ± 15.93
310
300
290
280
270
260
250
240
230
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −6.562
Std Dev 7.931
0.2
0.1
0
−0.1
−0.2

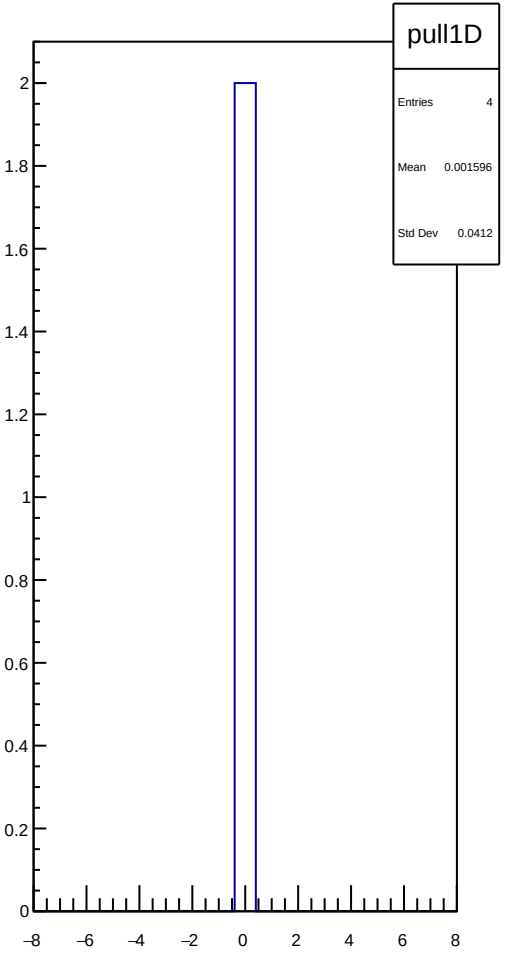

pull1D
Entries 4
Mean −0.008159
Std Dev 0.1841
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

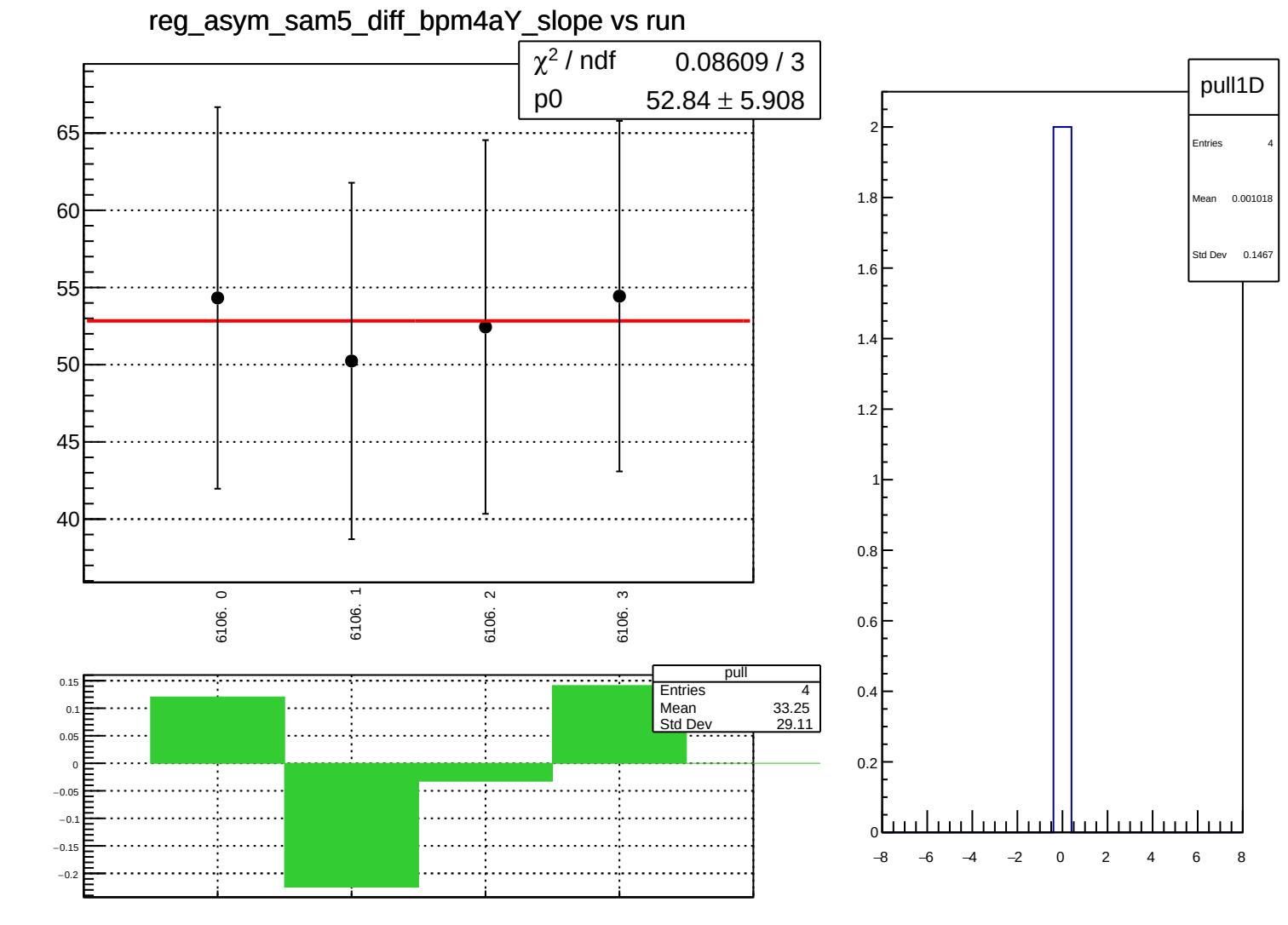

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.1093 / 3
p0 −2.933 ± 1.135
0
−1
−2
−3
−4
−5
−6
6106. 0
6106. 1
6106. 2
6106. 3

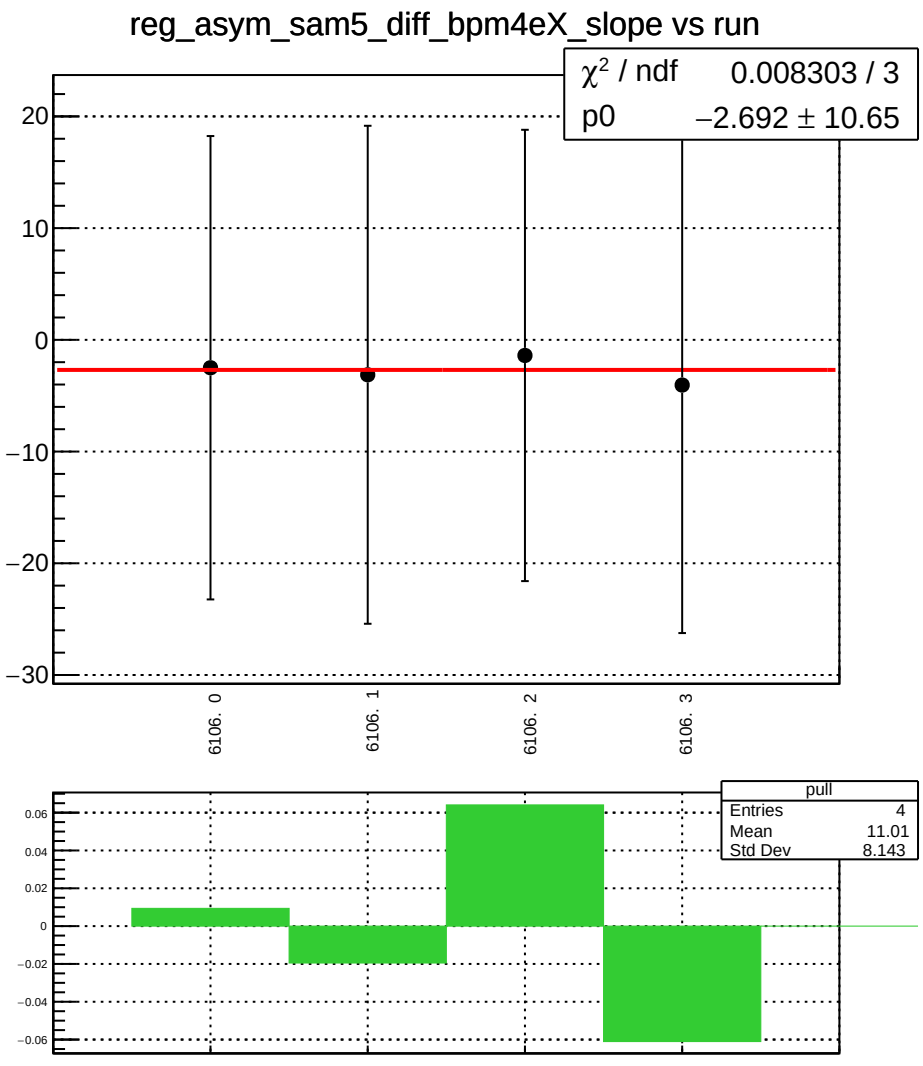

pull
Entries 4
Mean −0.6401
Std Dev 6.002
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

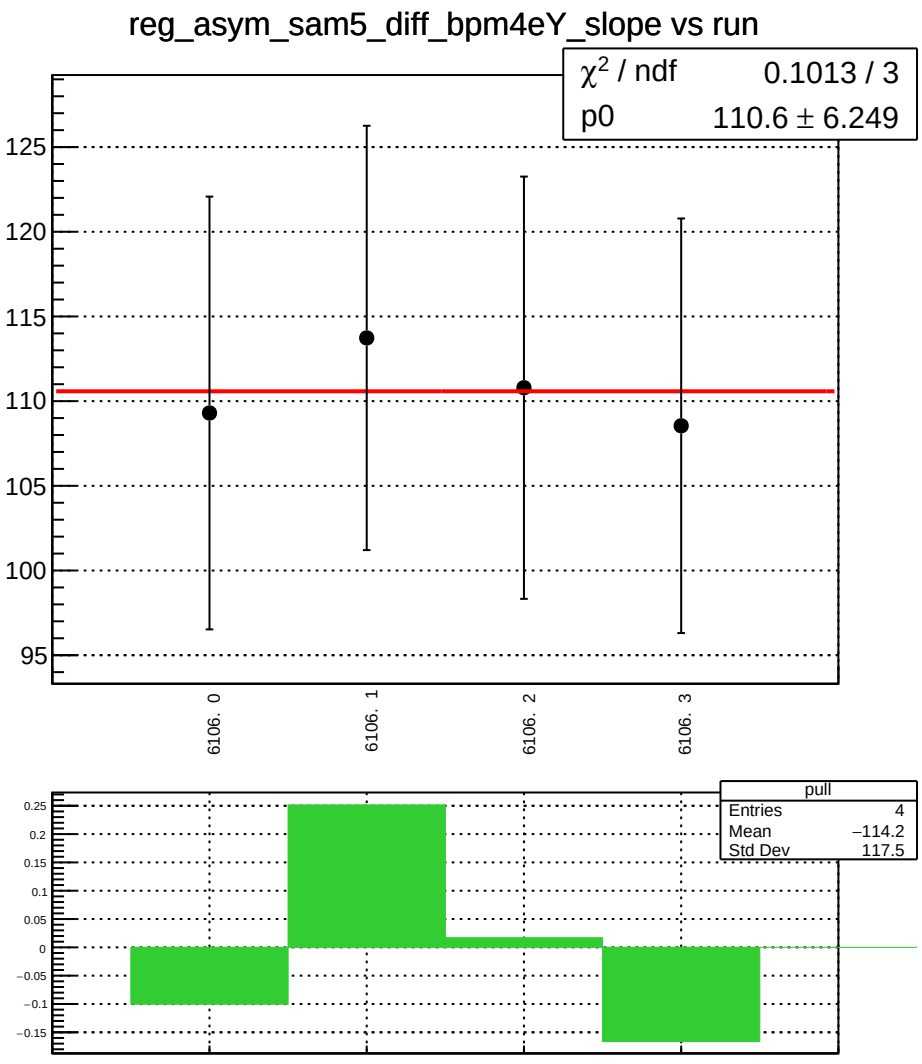

pull1D
Entries 4
Mean 0.0005323
Std Dev 0.1653
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

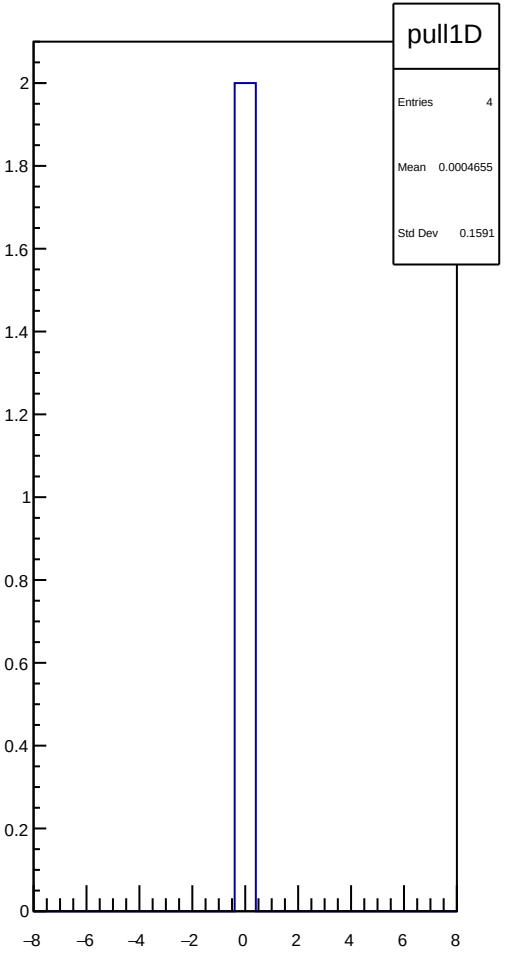

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 0.006799 / 3
p0 2.782 ± 9.153
25
20
15
10
5
0
−5
−10
−15
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 12.42
Std Dev 9.587
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

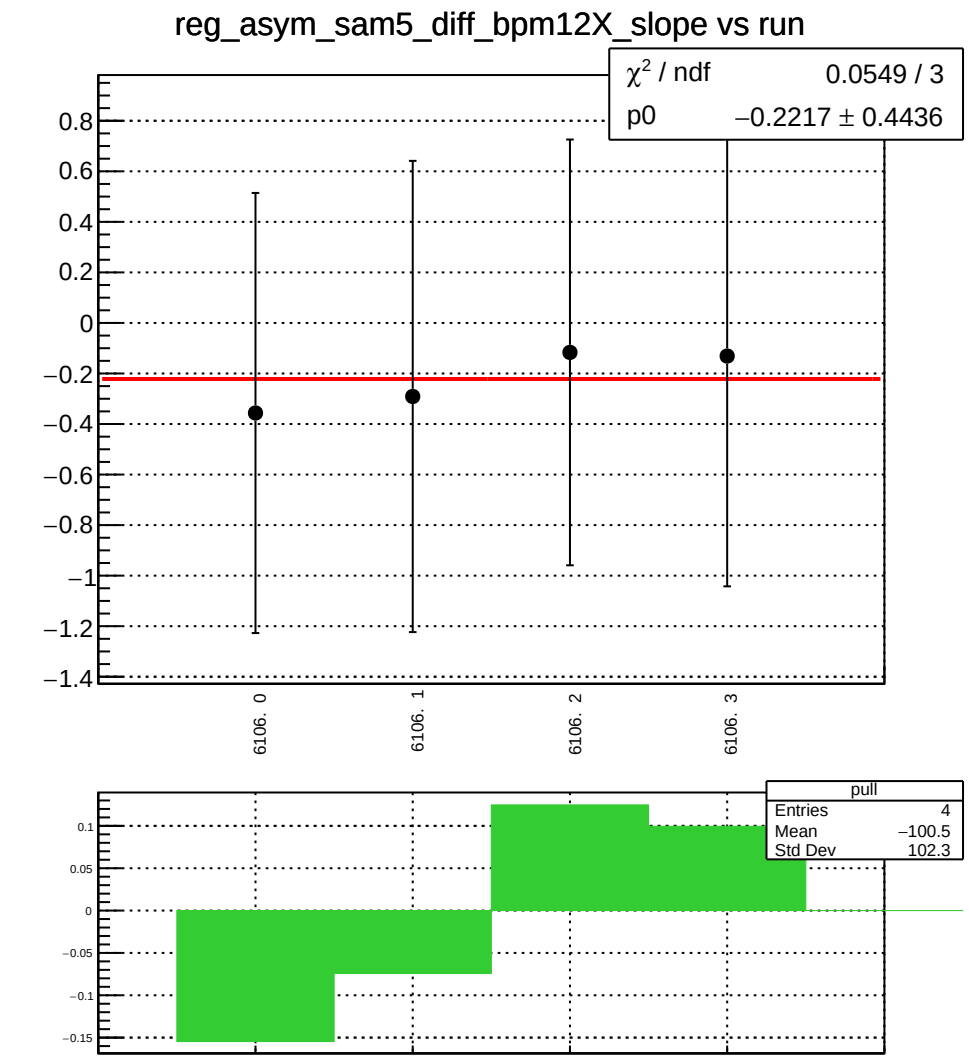

pull1D
Entries 4
Mean 0.001596
Std Dev 0.0412
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

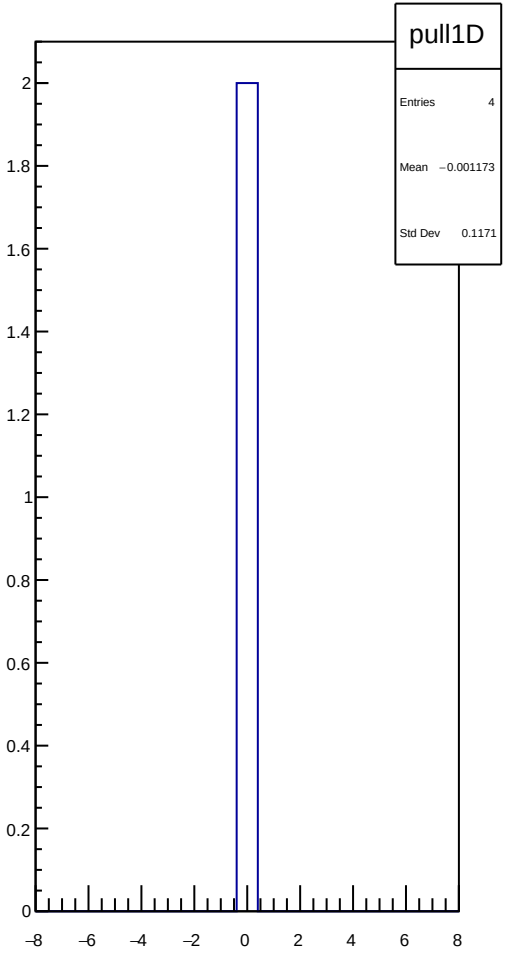

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 0.08609 / 3
p0 52.84 ± 5.908
65
60
55
50
45
40
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 33.25
Std Dev 29.11
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 4
Mean 0.001018
Std Dev 0.1467
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

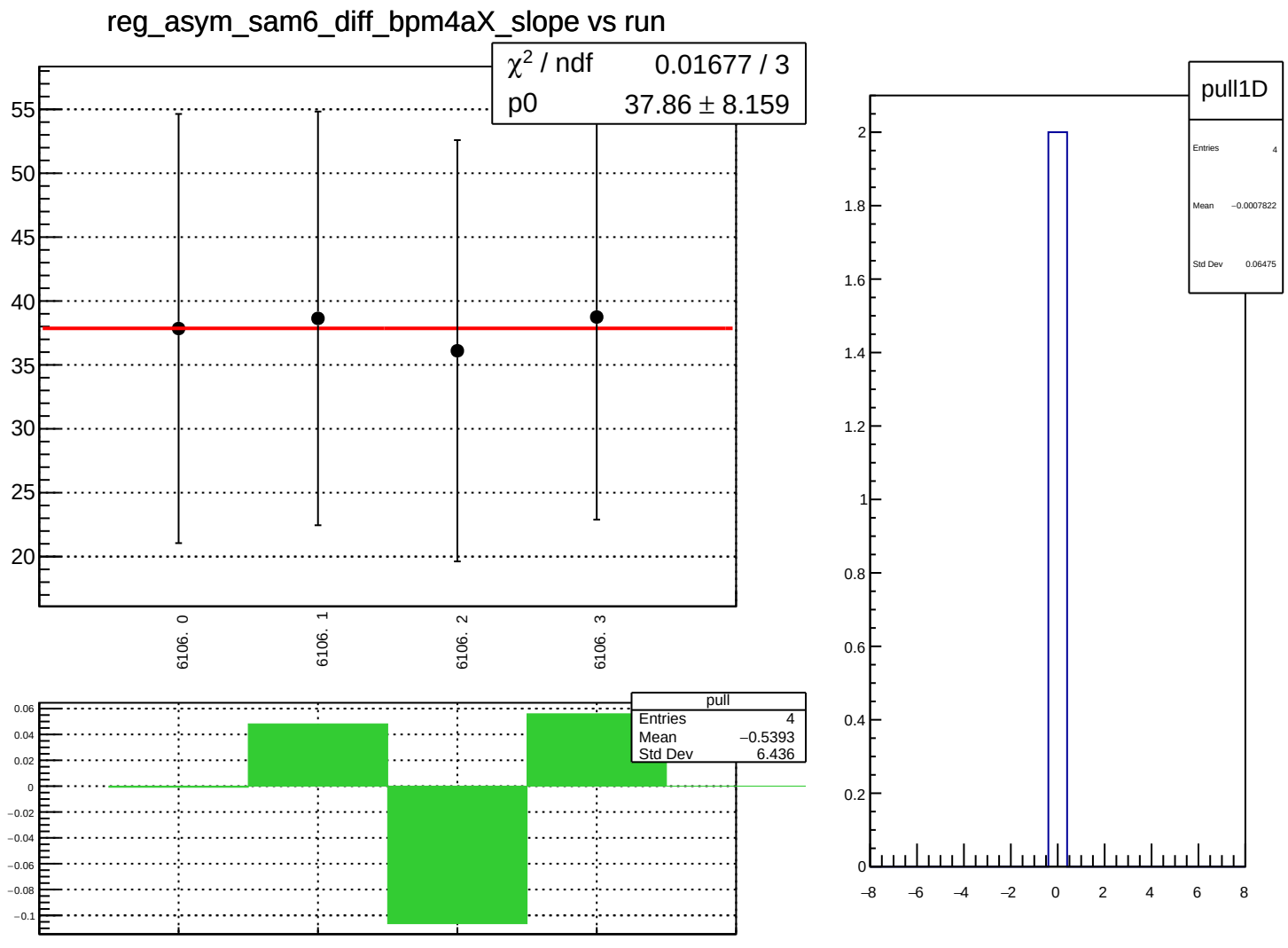

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.008303 / 3
p0 −2.692 ± 10.65
20
10
0
−10
−20
−30
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 11.01
Std Dev 8.143
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull1D
Entries 4
Mean −0.001772
Std Dev 0.04553
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

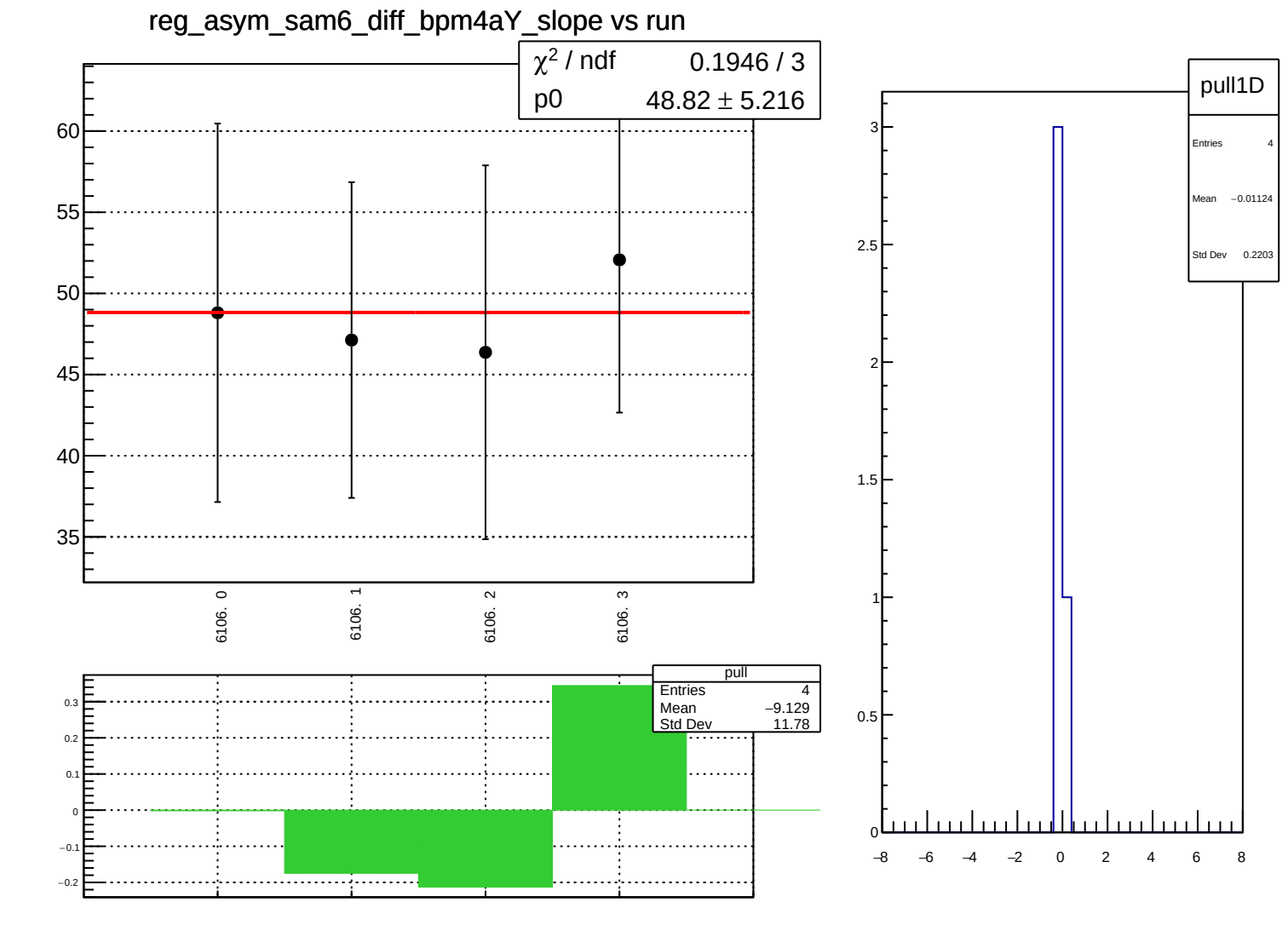

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 0.1013 / 3
p0 110.6 ± 6.249
125
120
115
110
105
100
95
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −114.2
Std Dev 117.5
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

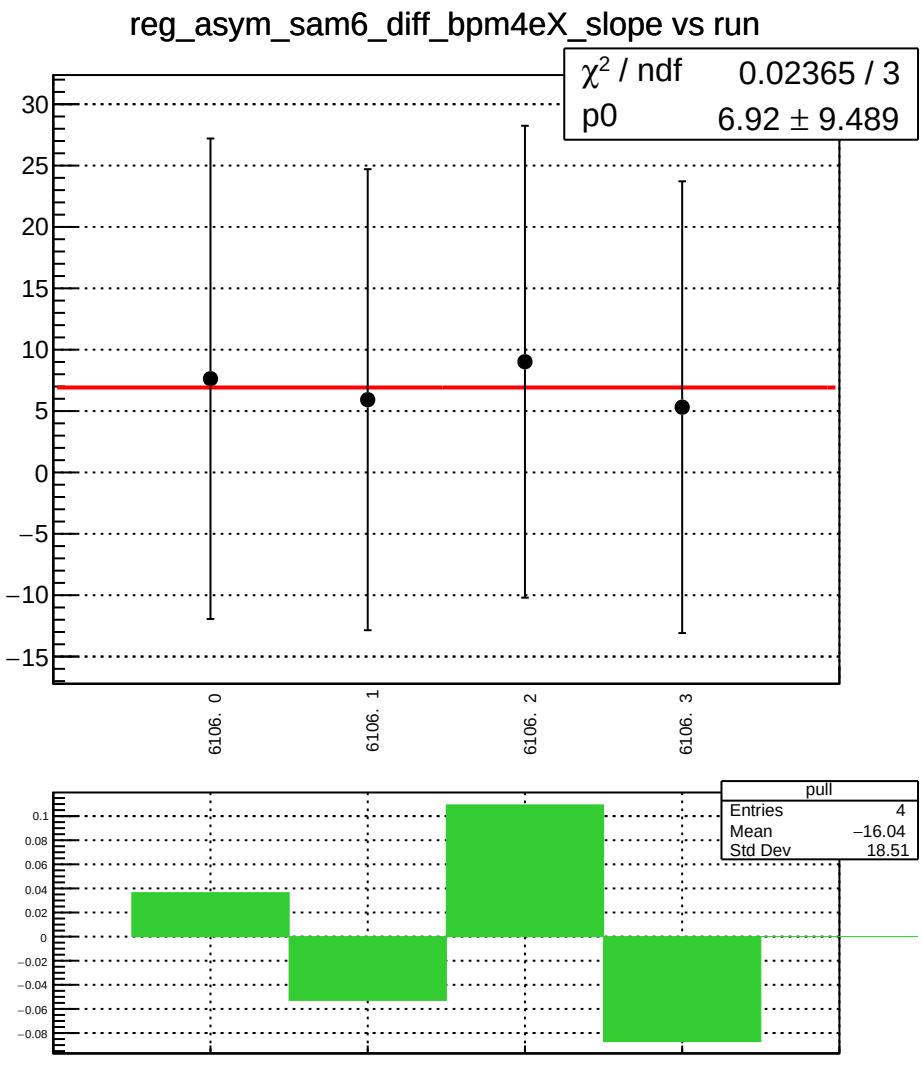

pull1D
Entries 4
Mean 0.0004655
Std Dev 0.1591
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

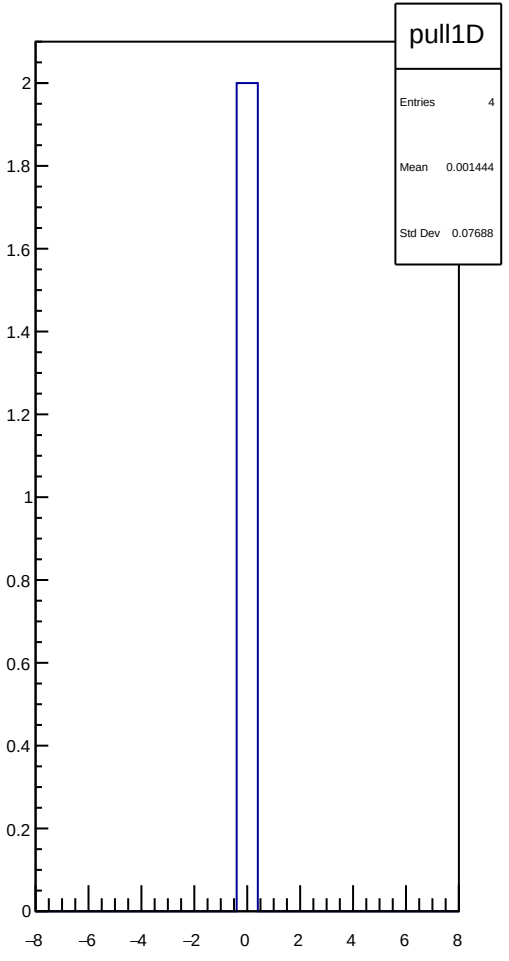

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0.0549 / 3
p0 −0.2217 ± 0.4436
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −100.5
Std Dev 102.3
0.1
0.05
0
−0.05
−0.1
−0.15

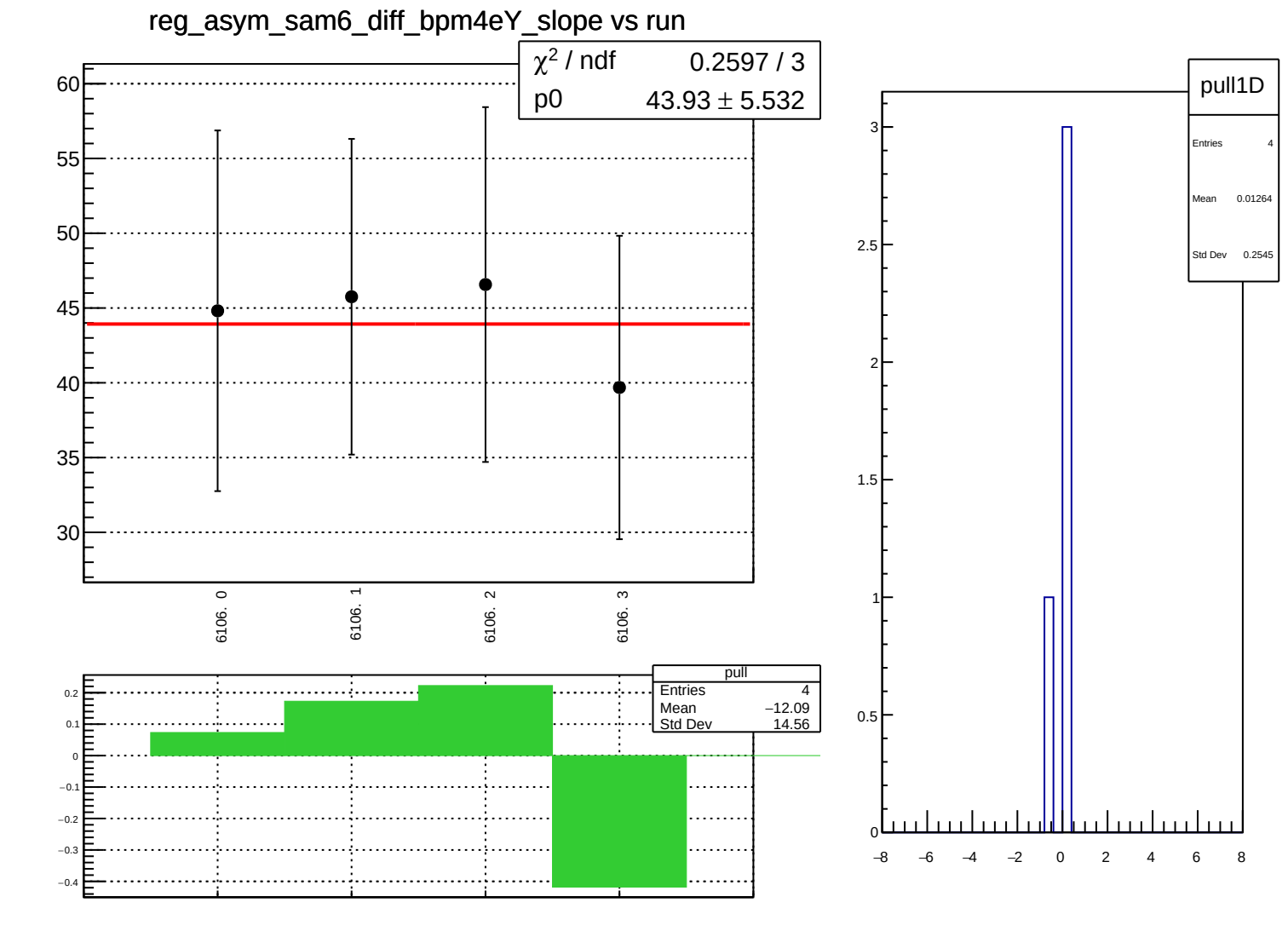

pull1D
Entries 4
Mean −0.001173
Std Dev 0.1171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

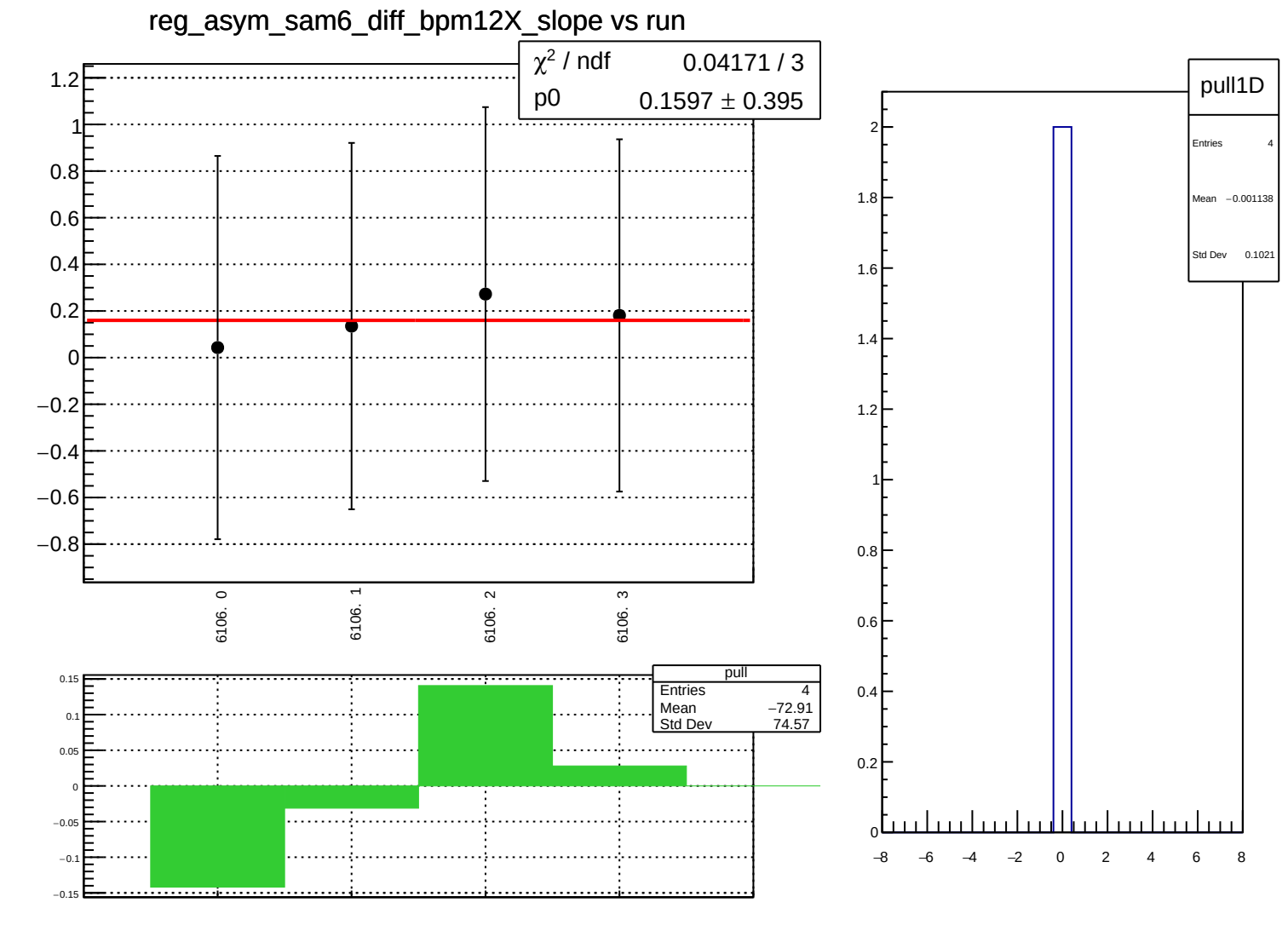

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 0.01677 / 3
p0 37.86 ± 8.159
55
50
45
40
35
30
25
20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −0.5393
Std Dev 6.436
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull1D
Entries 4
Mean −0.0007822
Std Dev 0.06475
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

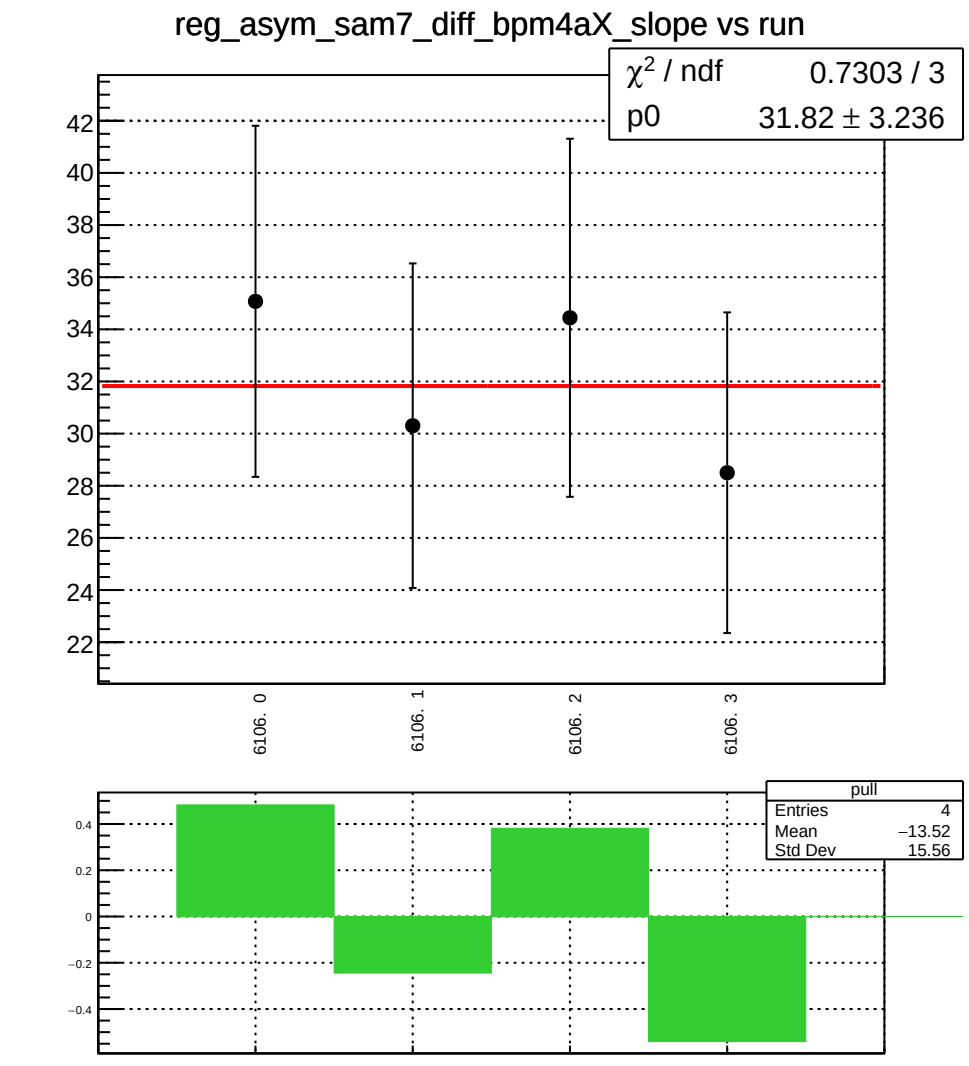

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 0.1946 / 3
p0 48.82 ± 5.216
60
55
50
45
40
35
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −9.129
Std Dev 11.78
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean −0.01124
Std Dev 0.2203
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

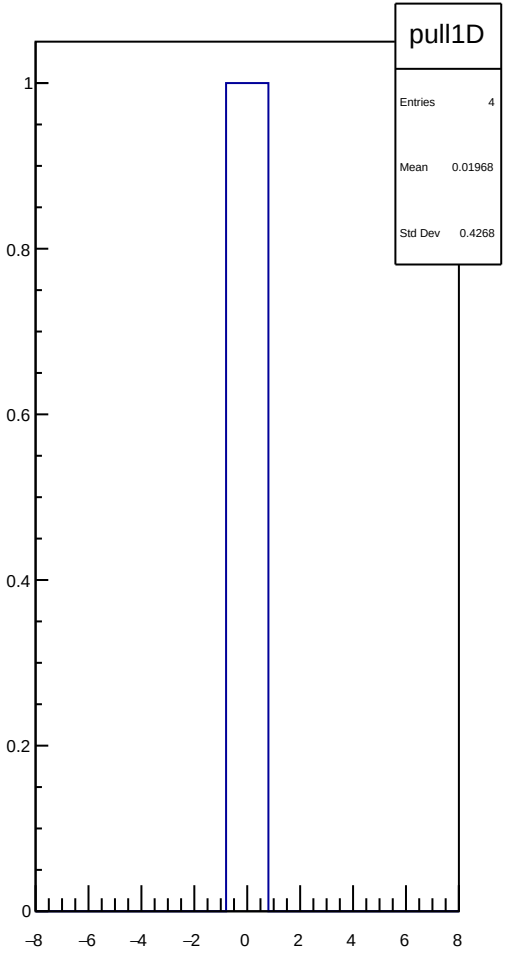

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.02365 / 3
p0 6.92 ± 9.489
30
25
20
15
10
5
0
−5
−10
−15
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −16.04
Std Dev 18.51
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

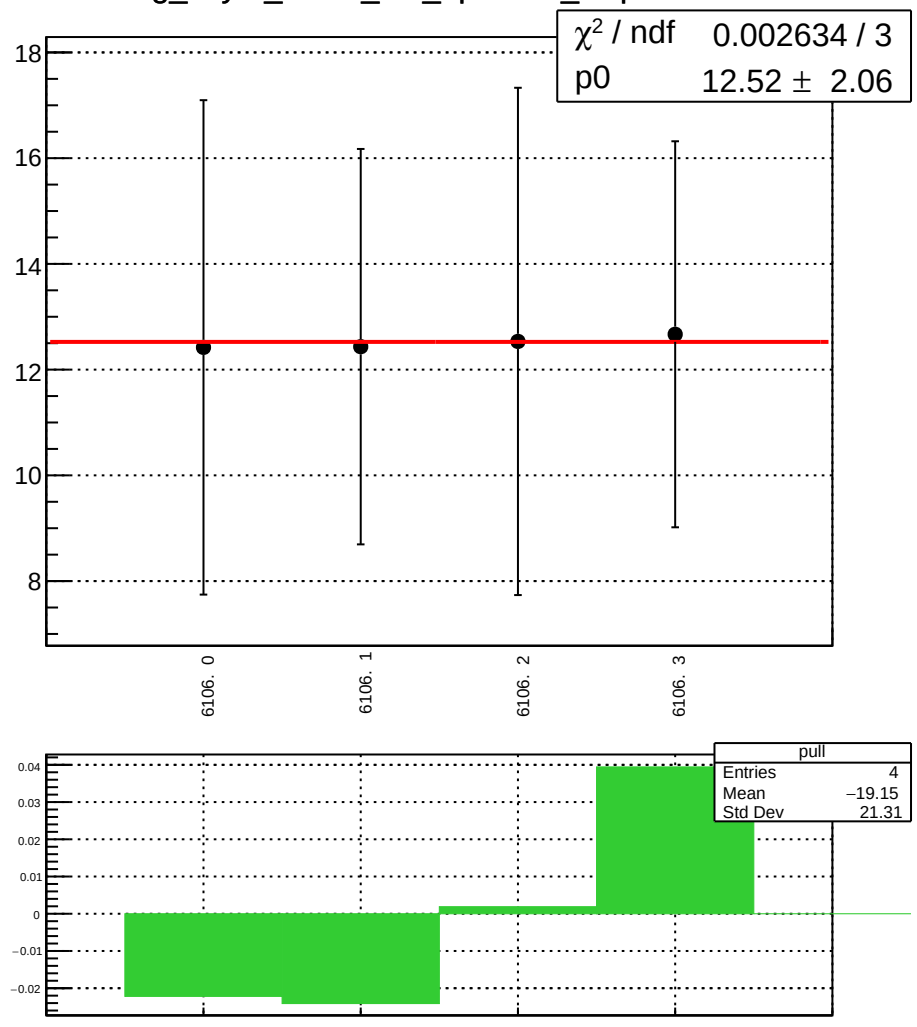

pull1D
Entries 4
Mean 0.001444
Std Dev 0.07688
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

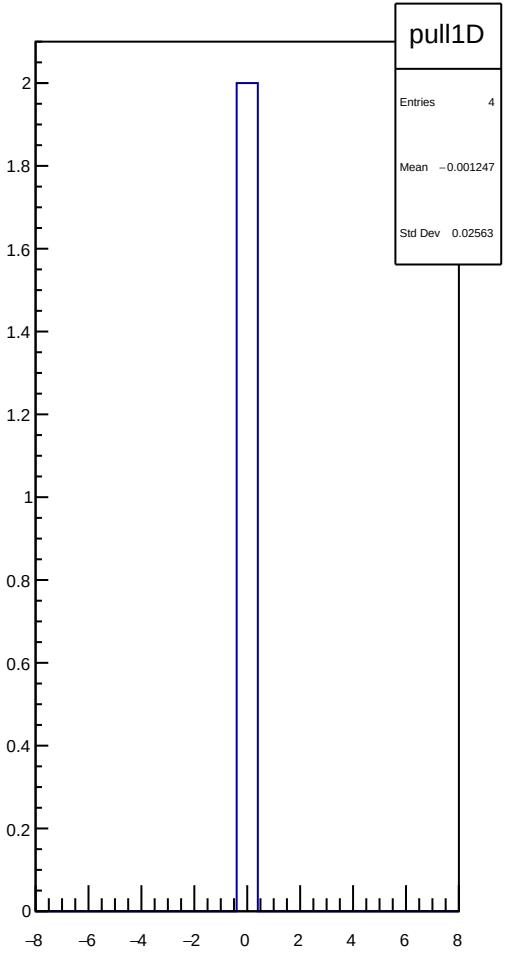

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0.2597 / 3
p0 43.93 ± 5.532
60
55
50
45
40
35
30
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −12.09
Std Dev 14.56
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 4
Mean 0.01264
Std Dev 0.2545
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

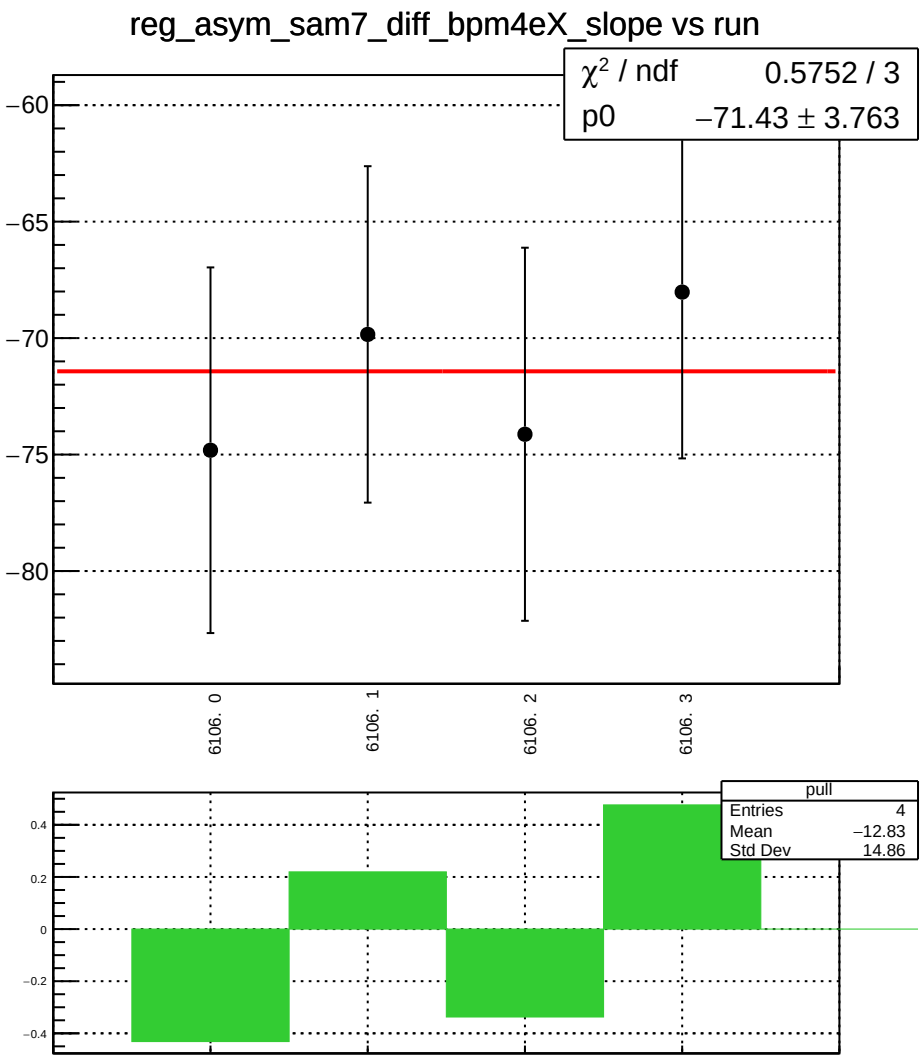

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.04171 / 3
p0 0.1597 ± 0.395
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −72.91
Std Dev 74.57
pull1D
Entries 4
Mean −0.001138
Std Dev 0.1021

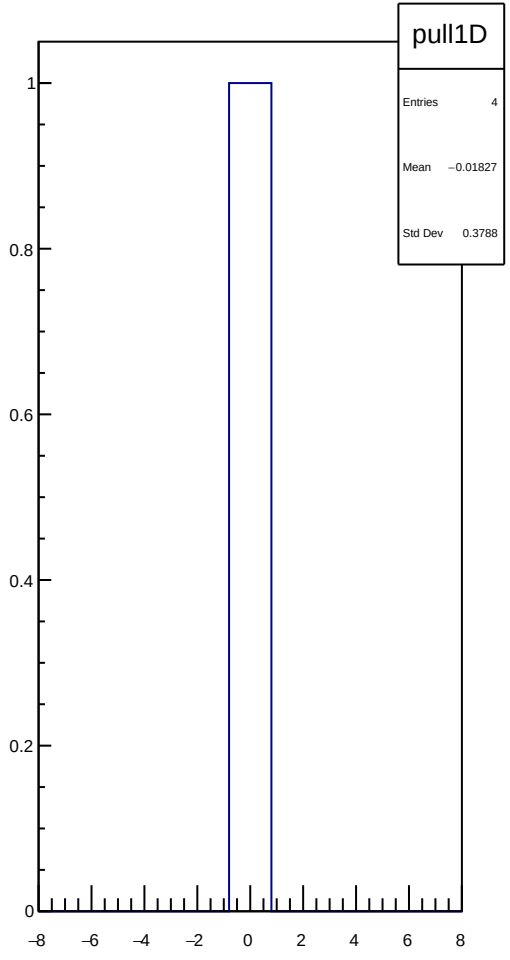

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 0.7303 / 3
p0 31.82 ± 3.236
42
40
38
36
34
32
30
28
26
24
22
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −13.52
Std Dev 15.56
0.4
0.2
0
−0.2
−0.4

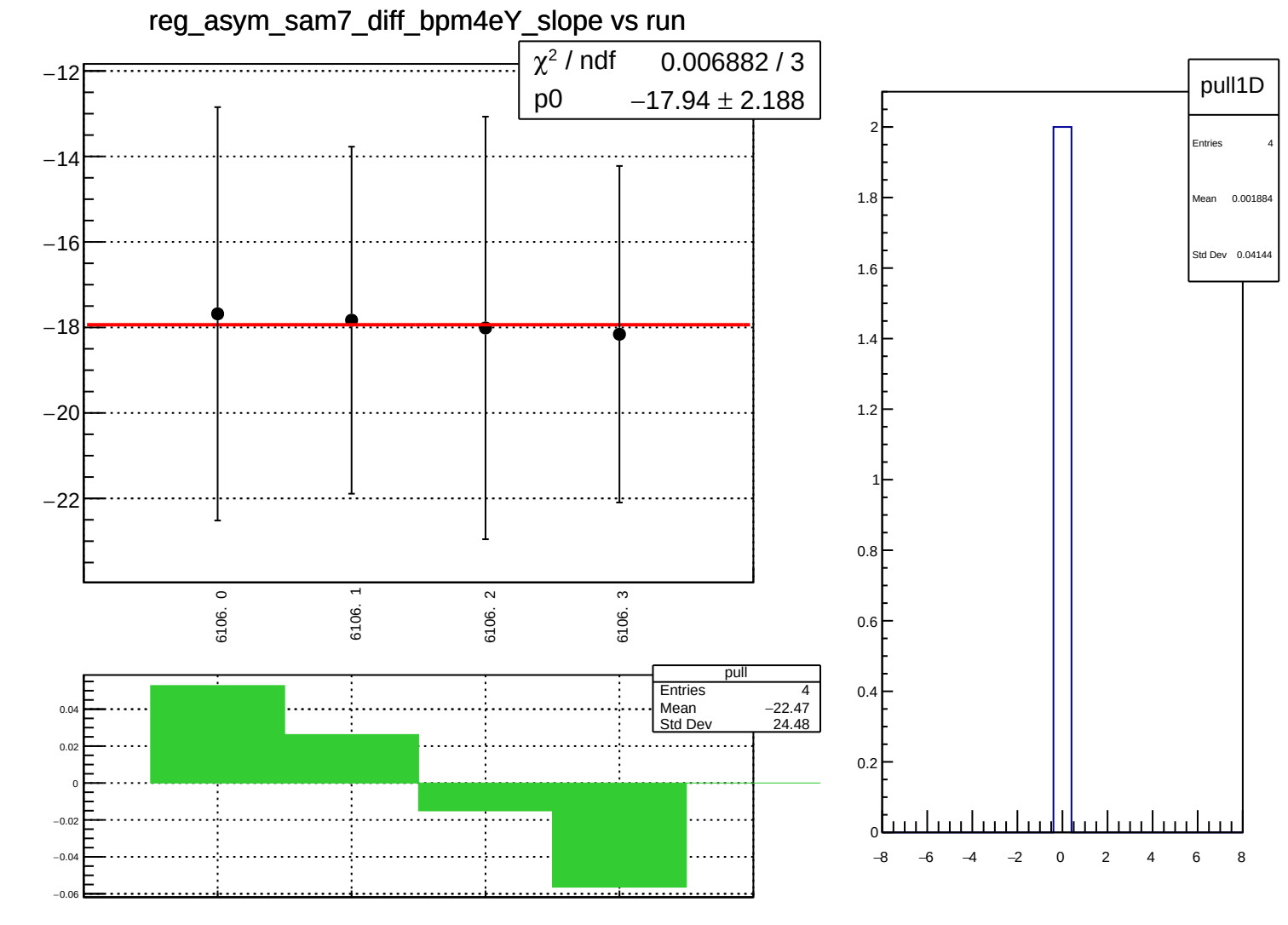

pull1D
Entries 4
Mean 0.01968
Std Dev 0.4268
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

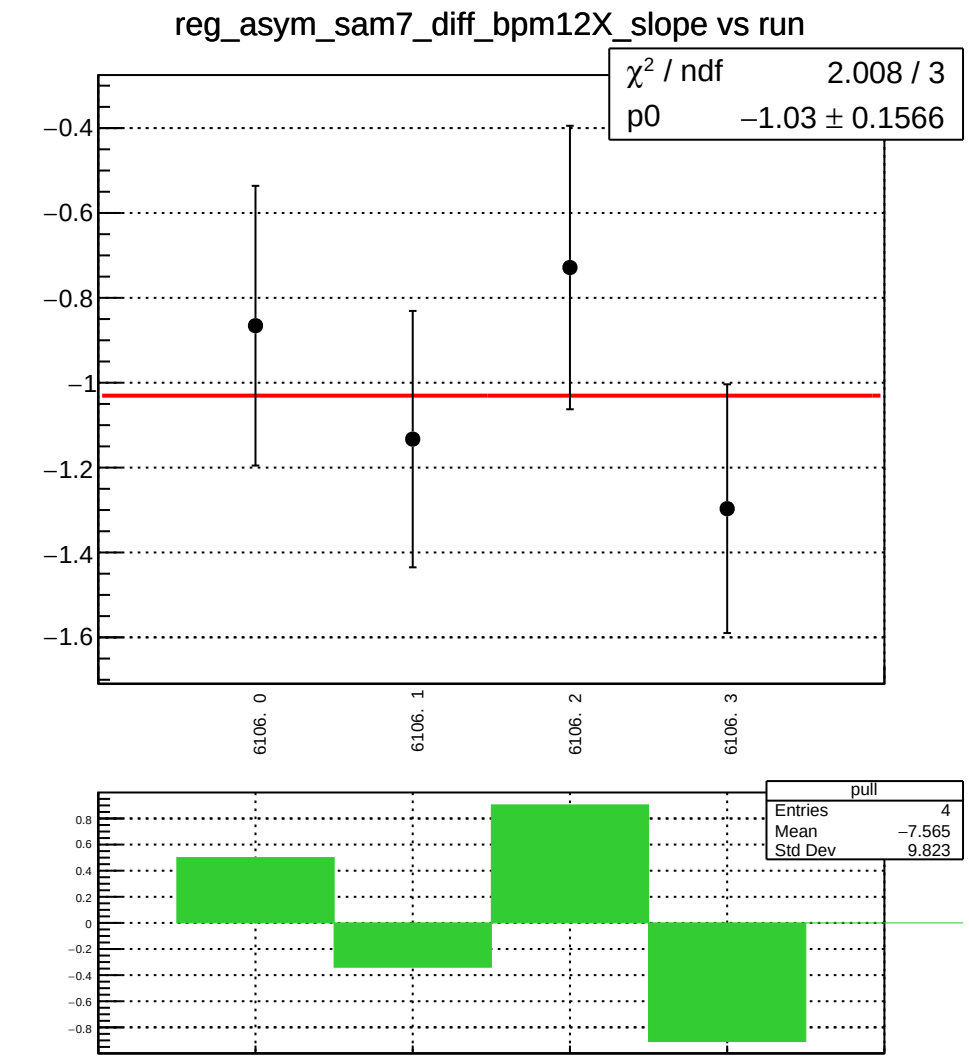

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.002634 / 3
p0 12.52 ± 2.06
18
16
14
12
10
8
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −19.15
Std Dev 21.31
0.04
0.03
0.02
0.01
0
−0.01
−0.02

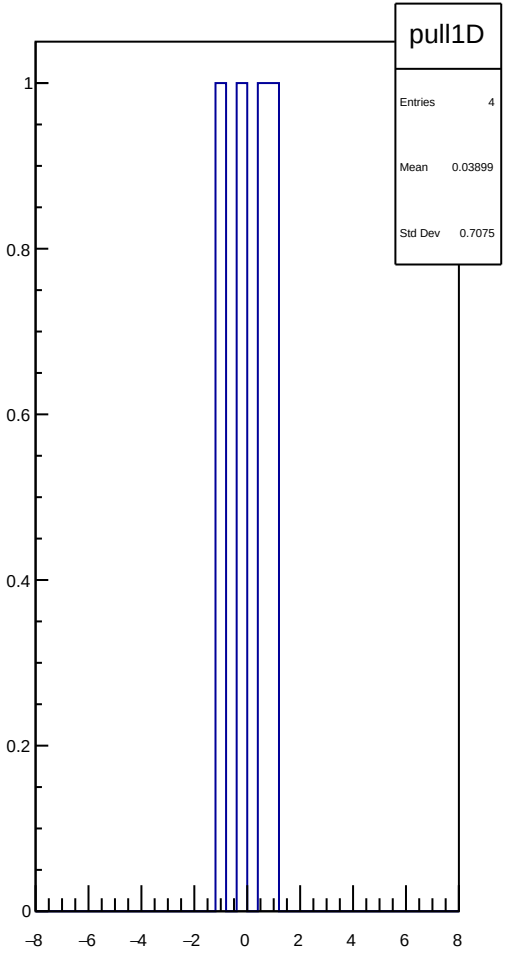

pull1D
Entries 4
Mean −0.001247
Std Dev 0.02563
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

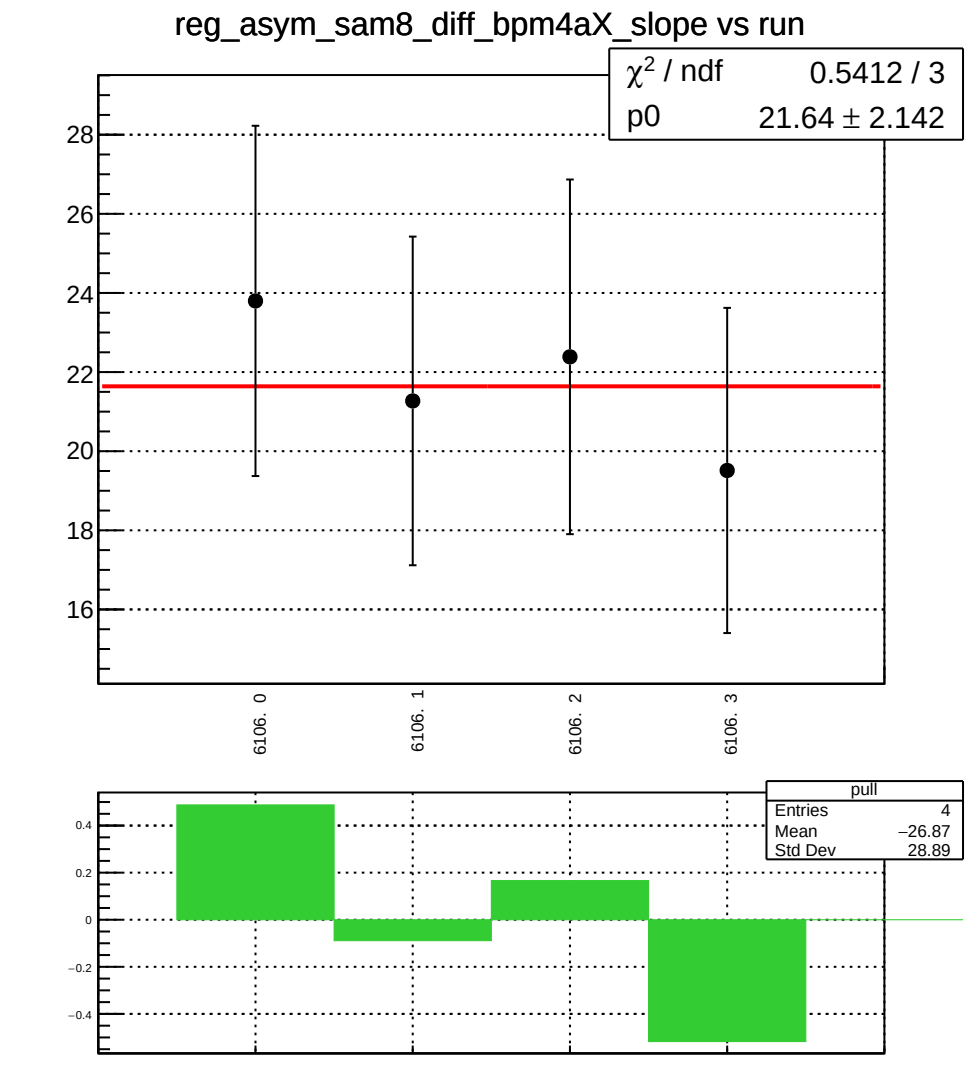

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 0.5752 / 3
p0 −71.43 ± 3.763
−60
−65
−70
−75
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −12.83
Std Dev 14.86
0.4
0.2
0
−0.2
−0.4

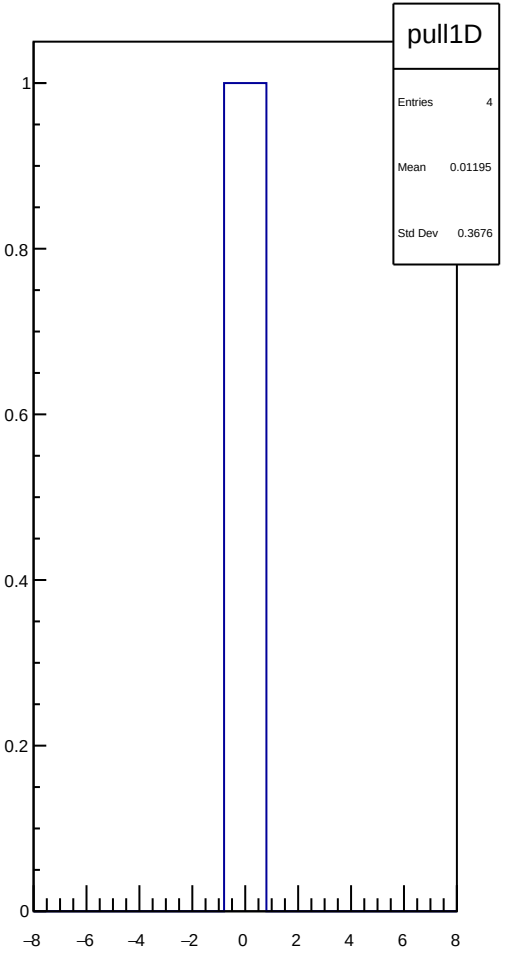

pull1D
Entries 4
Mean −0.01827
Std Dev 0.3788
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

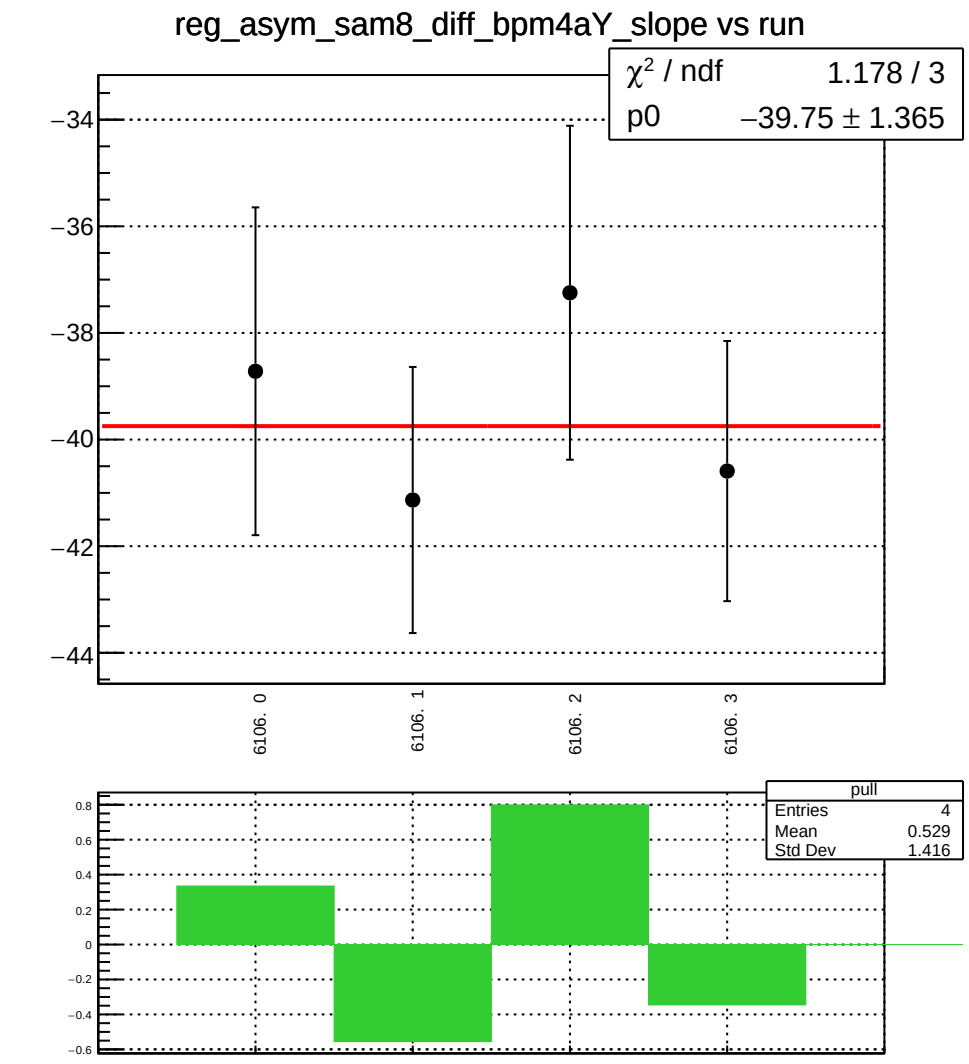

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.006882 / 3
p0 −17.94 ± 2.188
−12
−14
−16
−18
−20
−22
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −22.47
Std Dev 24.48
0.04
0.02
0
−0.02
−0.04
−0.06
pull1D
Entries 4
Mean 0.001884
Std Dev 0.04144
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

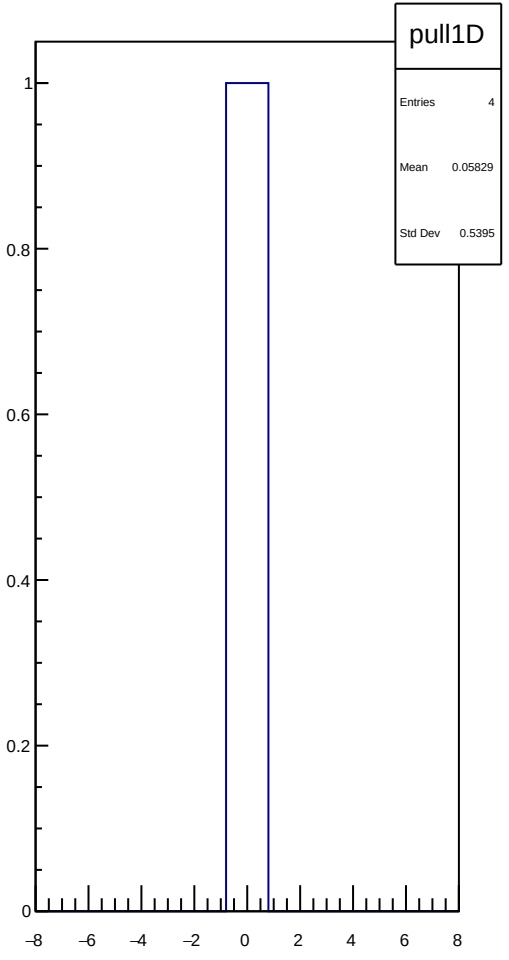

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.008 / 3
p0 −1.03 ± 0.1566
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −7.565
Std Dev 9.823
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

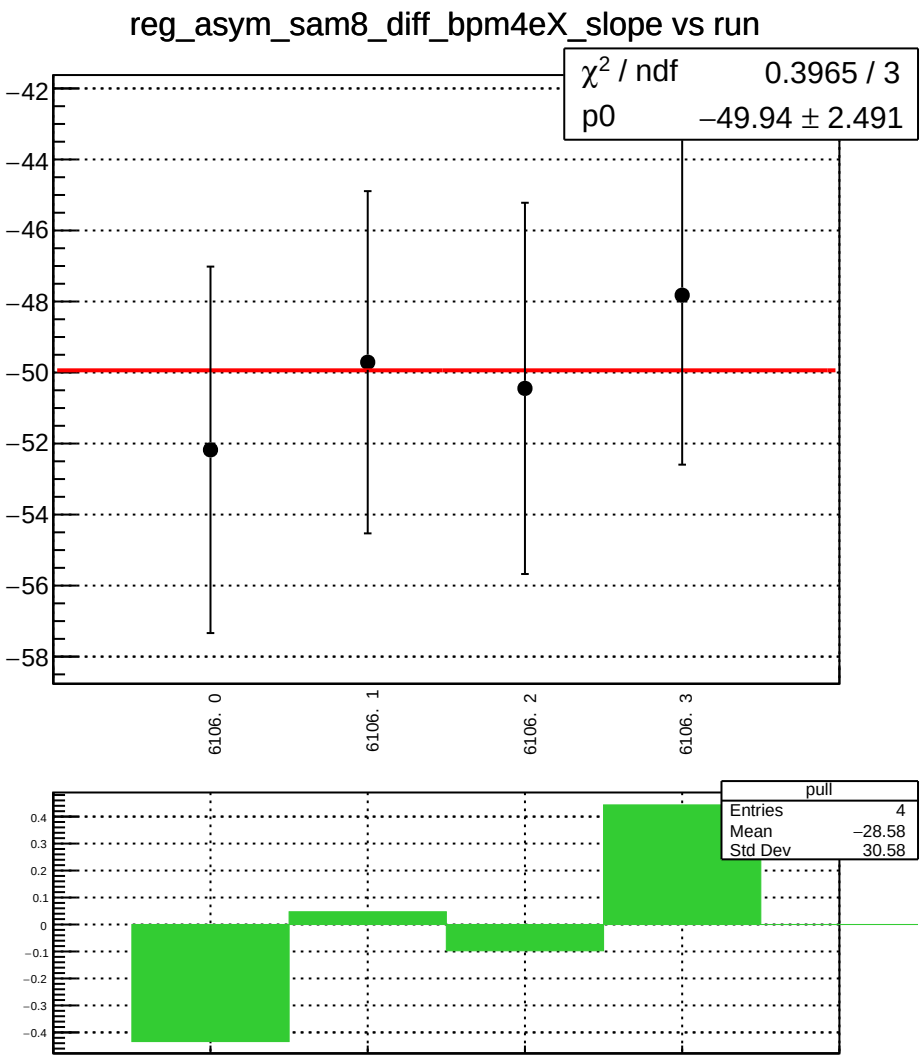

pull1D
Entries 4
Mean 0.03899
Std Dev 0.7075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

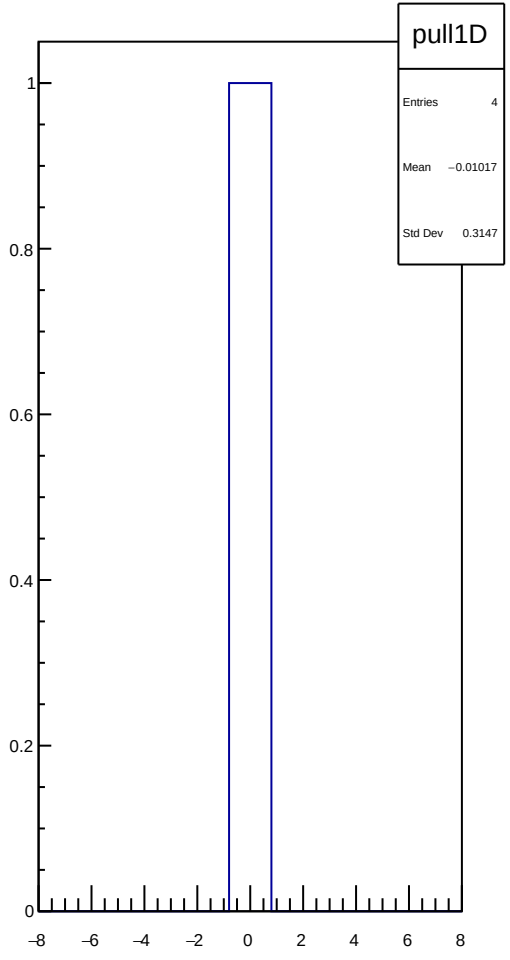

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 0.5412 / 3
p0 21.64 ± 2.142
28
26
24
22
20
18
16
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −26.87
Std Dev 28.89
0.4
0.2
0
−0.2
−0.4

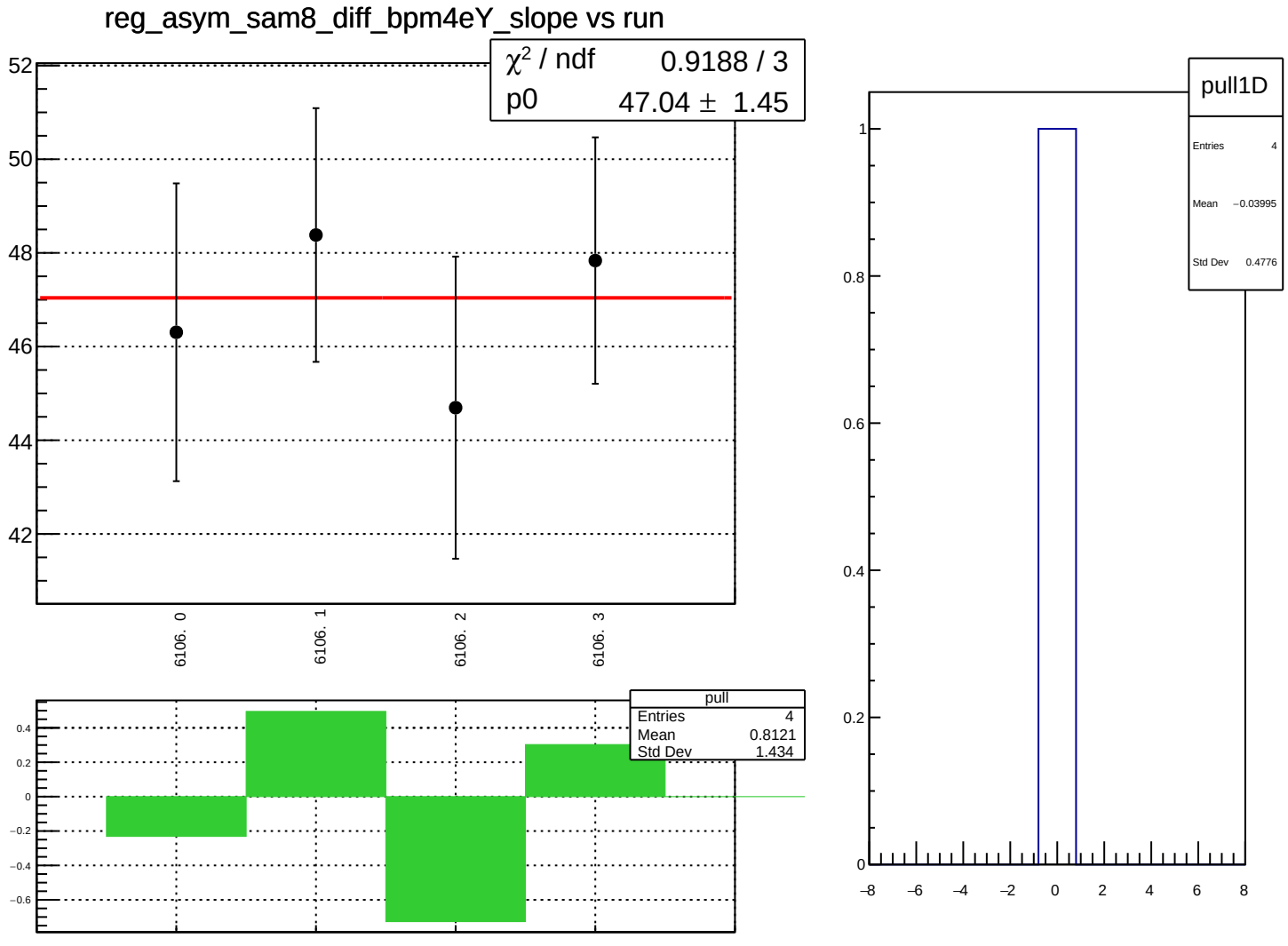

pull1D
Entries 4
Mean 0.01195
Std Dev 0.3676
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

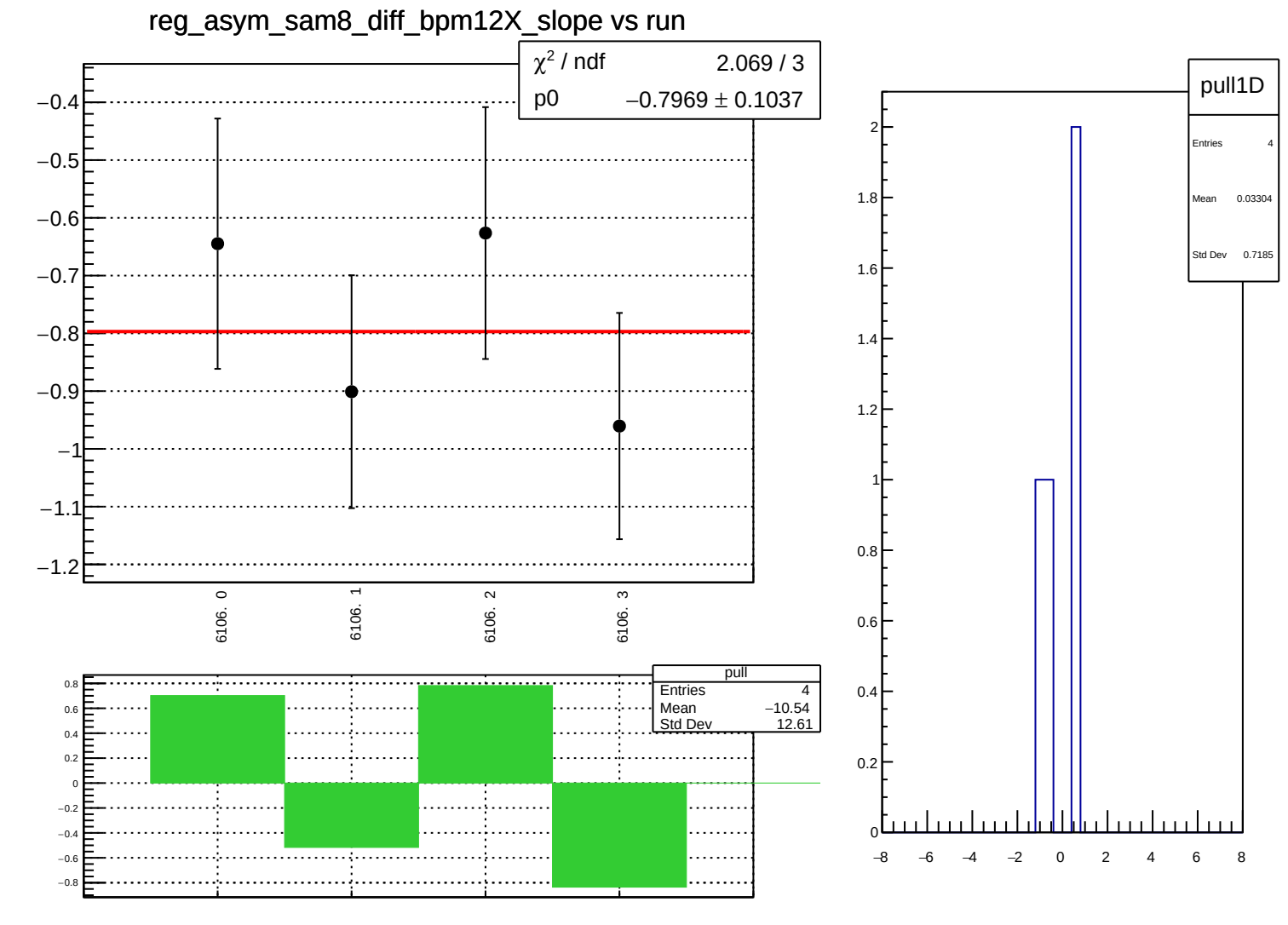

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1.178 / 3
p0 −39.75 ± 1.365
−34
−36
−38
−40
−42
−44
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 0.529
Std Dev 1.416
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

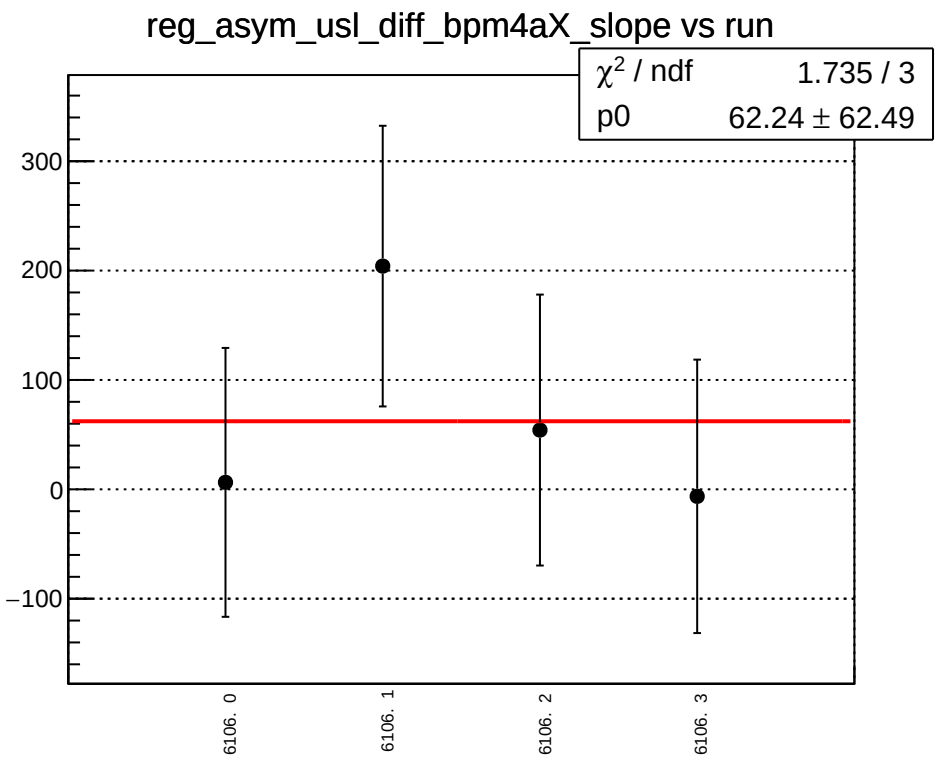

pull1D
Entries 4
Mean 0.05829
Std Dev 0.5395
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

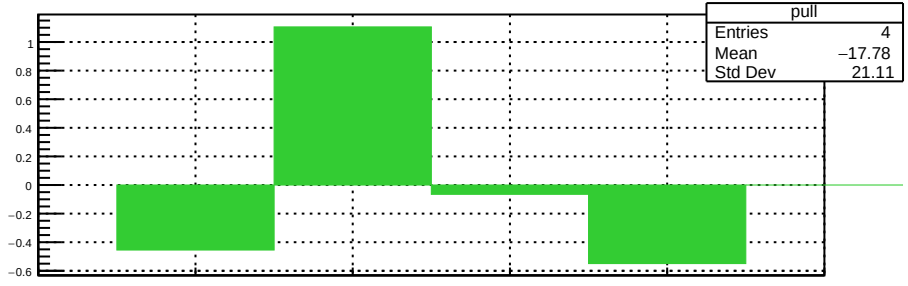

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 0.3965 / 3
p0 −49.94 ± 2.491
−42
−44
−46
−48
−50
−52
−54
−56
−58
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −28.58
Std Dev 30.58
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

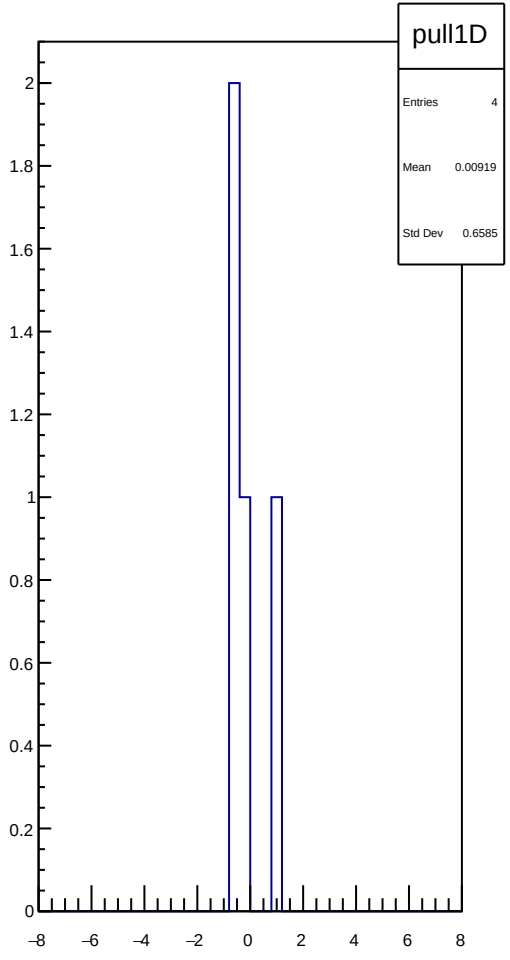

pull1D
Entries 4
Mean −0.01017
Std Dev 0.3147
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

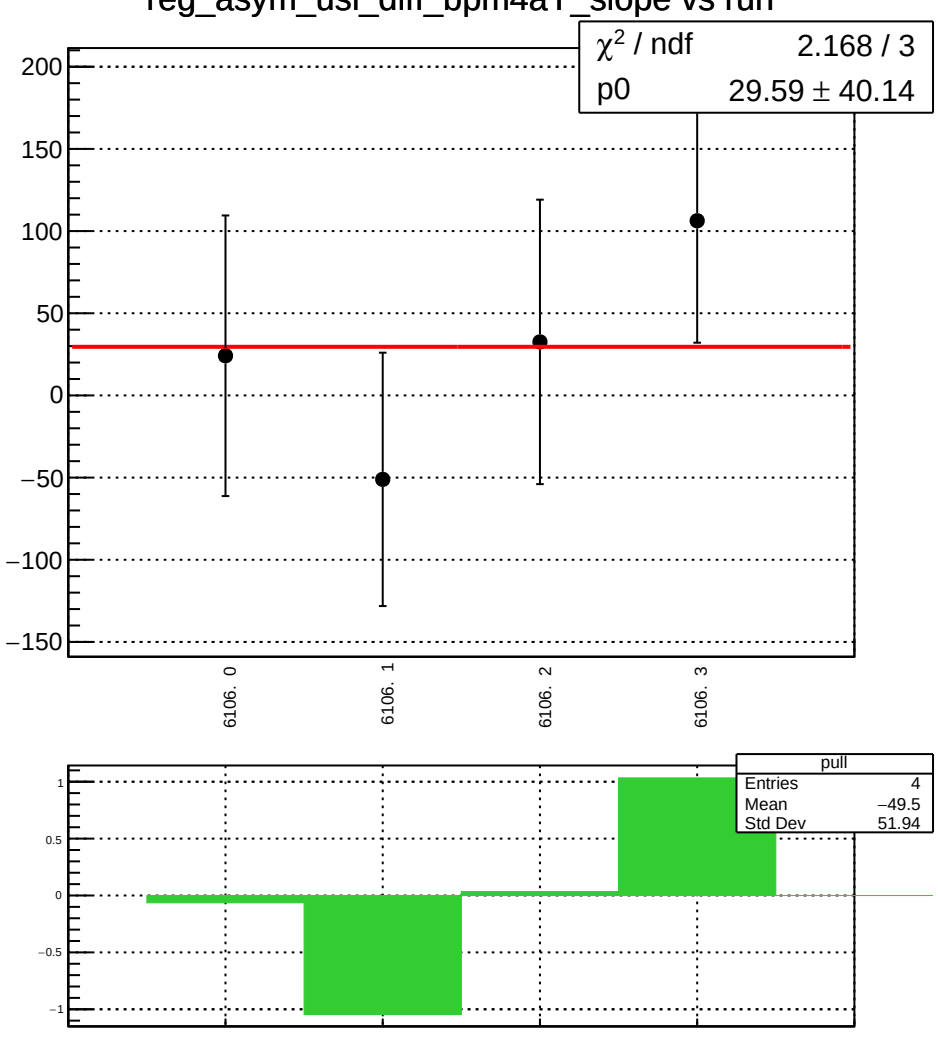

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 0.9188 / 3
p0 47.04 ± 1.45
52
50
48
46
44
42
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 0.8121
Std Dev 1.434
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.03995
Std Dev 0.4776
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

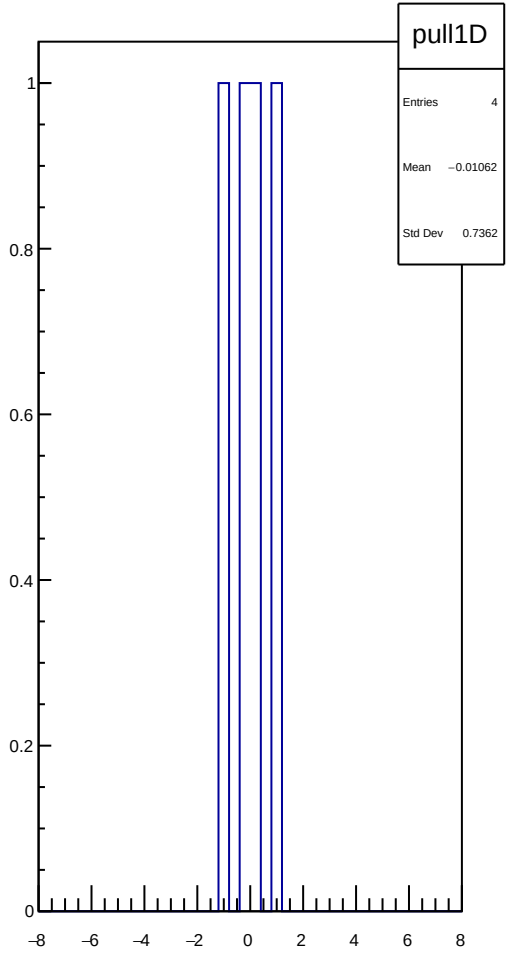

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 2.069 / 3
p0 −0.7969 ± 0.1037
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −10.54
Std Dev 12.61
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.03304
Std Dev 0.7185
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

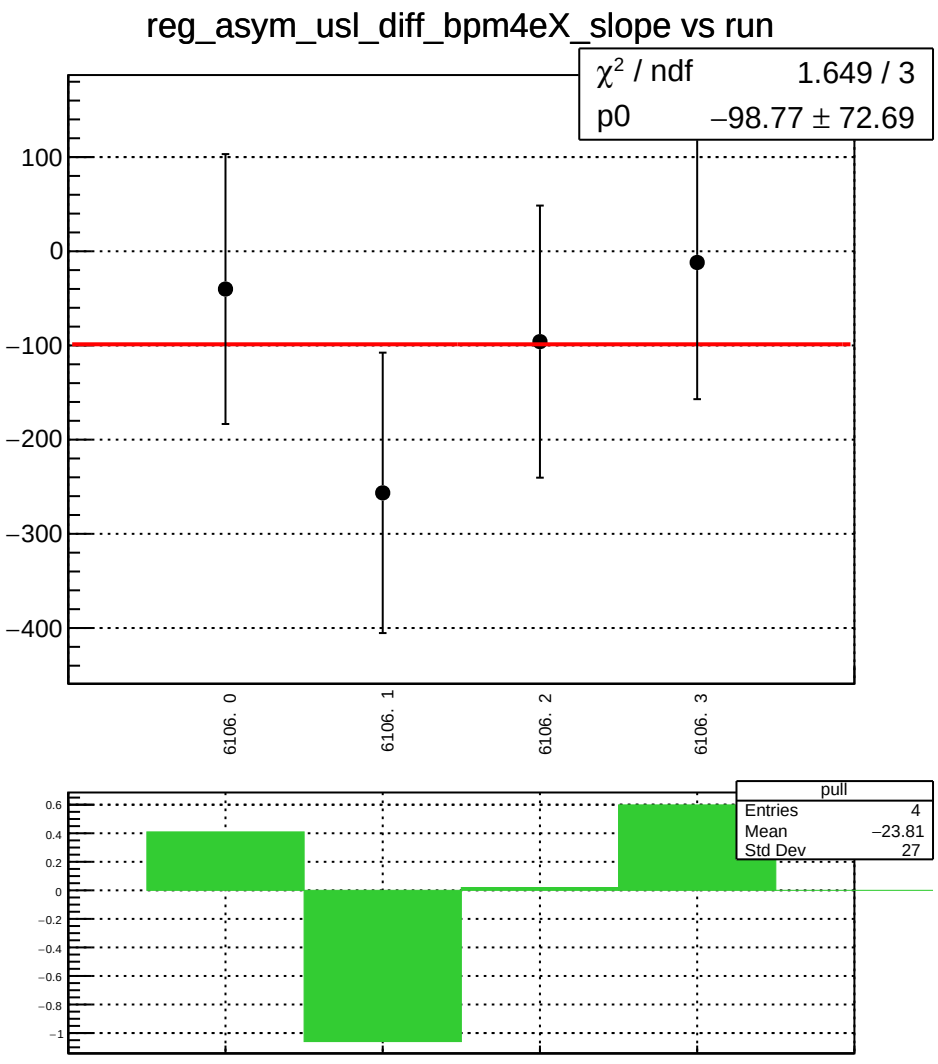

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 1.735 / 3
p0 62.24 ± 62.49
300
200
100
0
−100
6106. 0
6106. 1
6106. 2
6106. 3

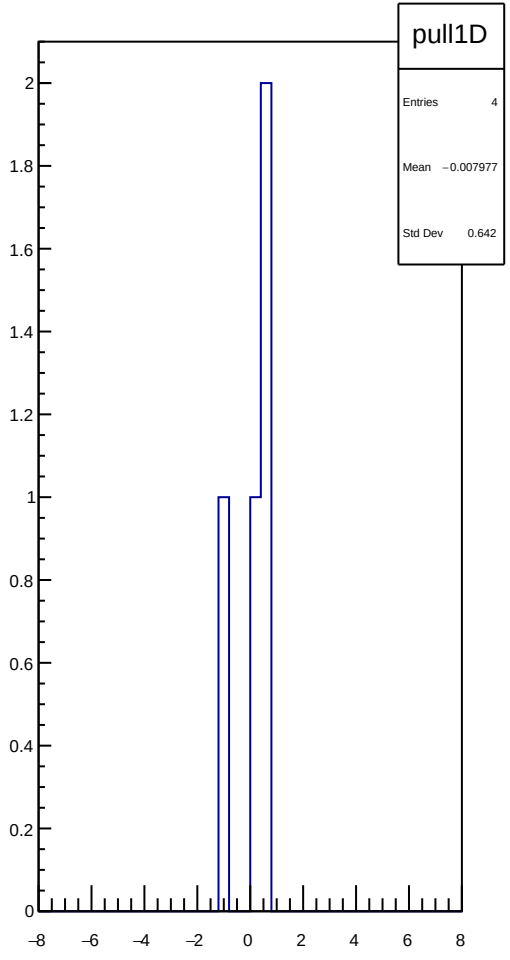

pull
Entries 4
Mean −17.78
Std Dev 21.11
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

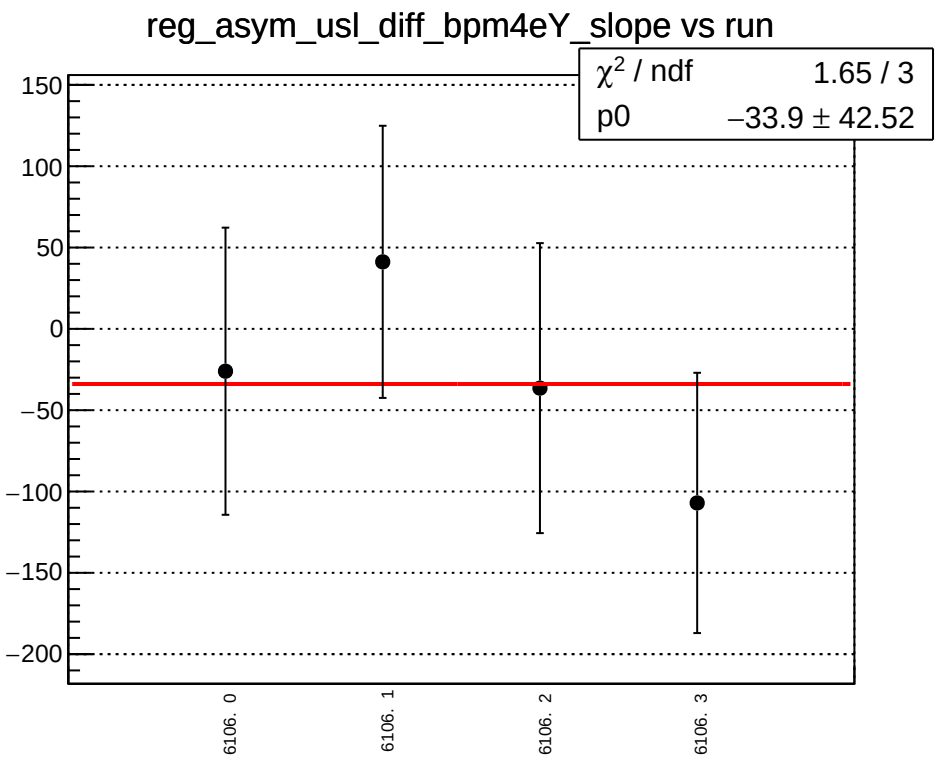

pull1D
Entries 4
Mean 0.00919
Std Dev 0.6585
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

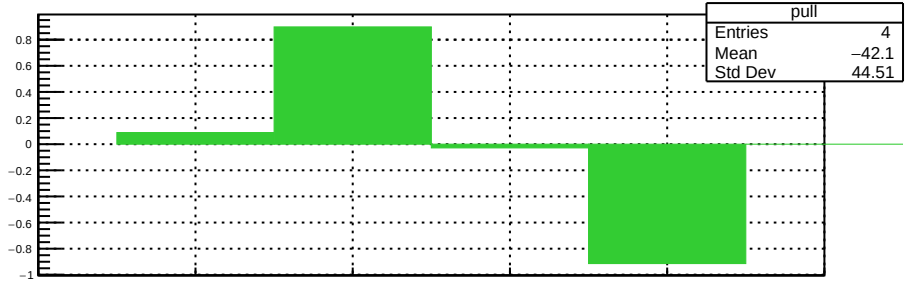

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 2.168 / 3
p0 29.59 ± 40.14
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −49.5
Std Dev 51.94
1
0.5
0
−0.5
−1

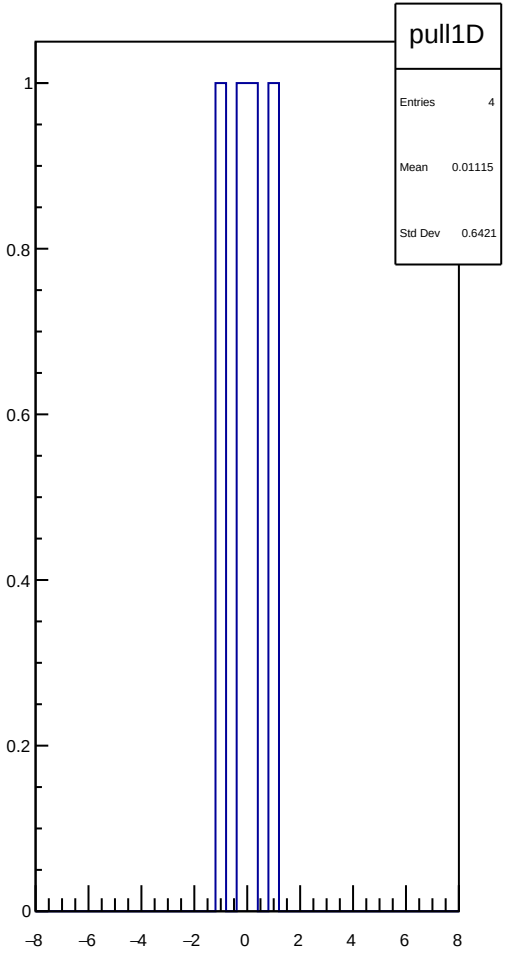

pull1D
Entries 4
Mean −0.01062
Std Dev 0.7362
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

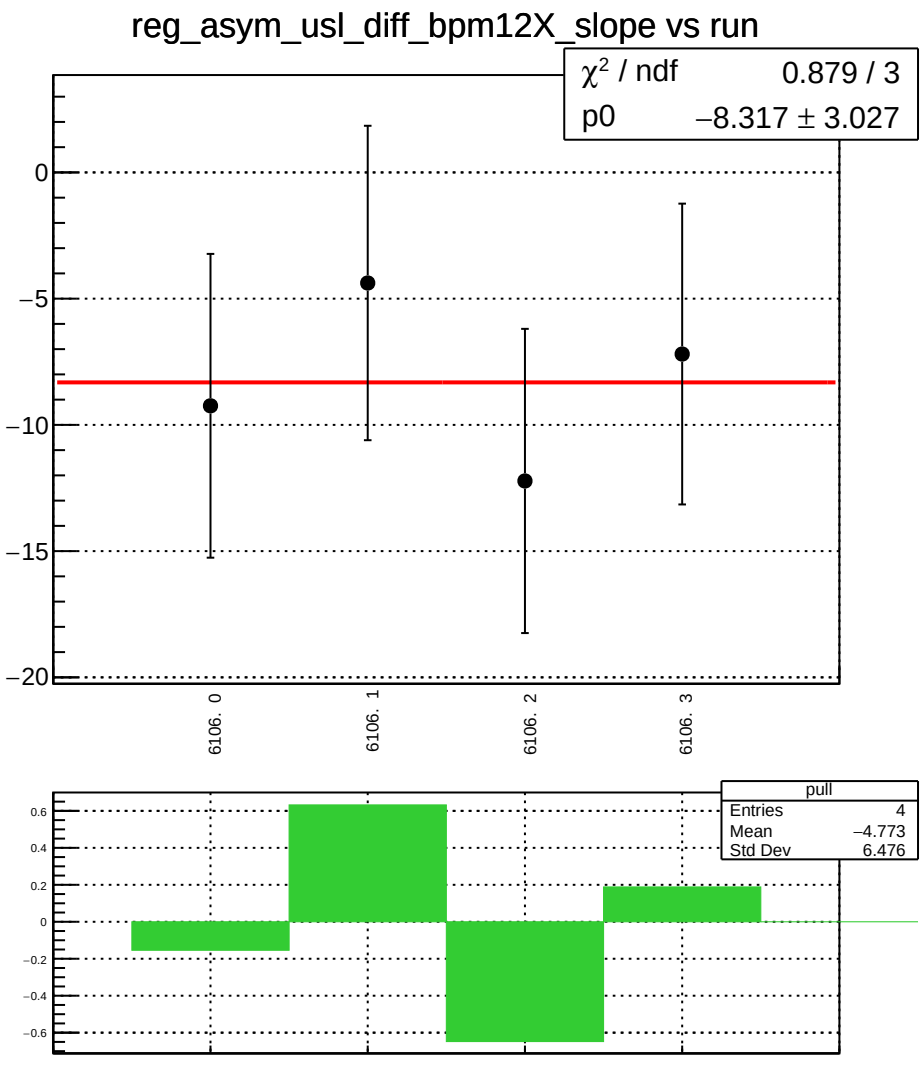

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 1.649 / 3
p0 −98.77 ± 72.69
100
0
−100
−200
−300
−400
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −23.81
Std Dev 27
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

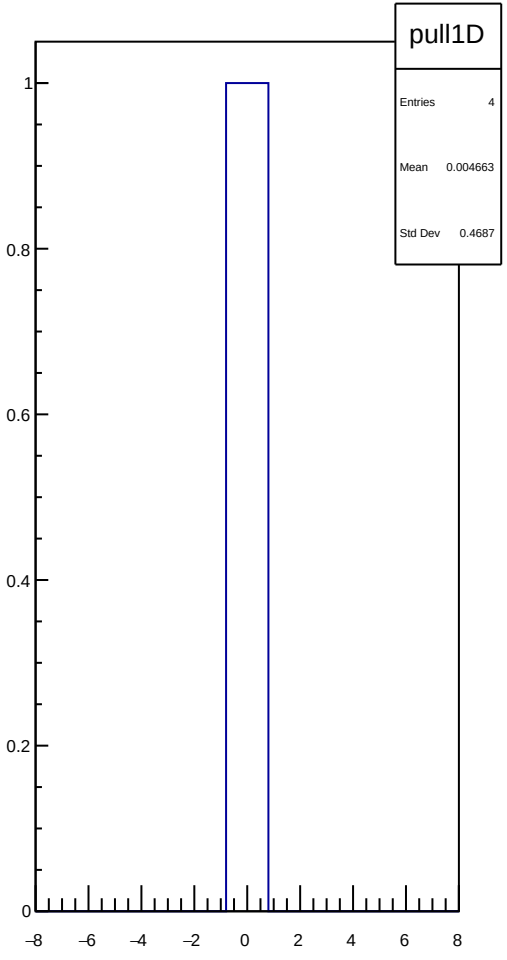

pull1D
Entries 4
Mean −0.007977
Std Dev 0.642
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

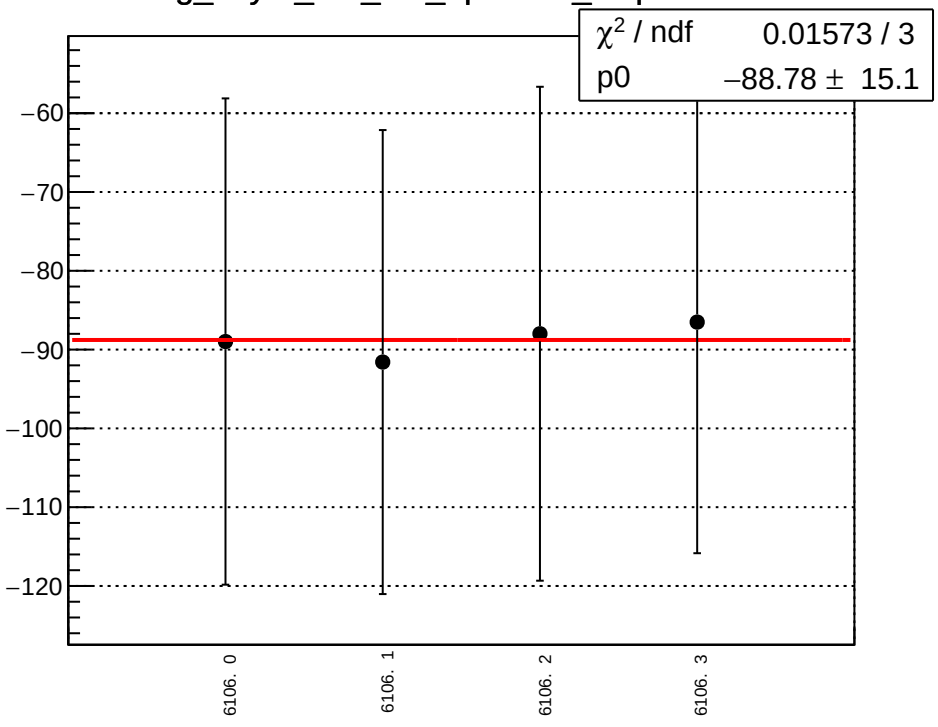

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 1.65 / 3
p0 −33.9 ± 42.52
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3

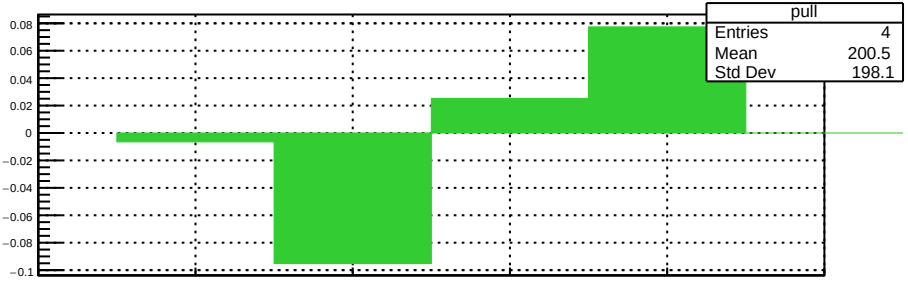

pull
Entries 4
Mean −42.1
Std Dev 44.51
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

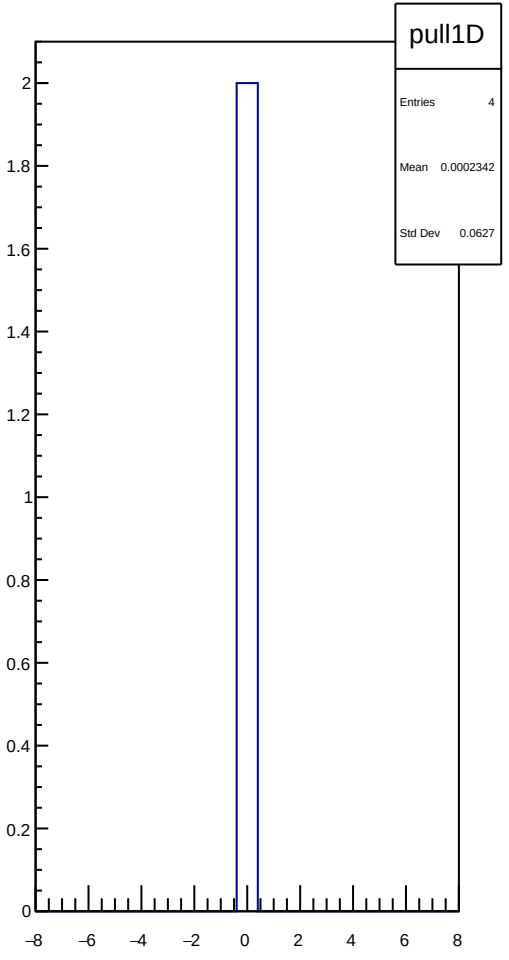

pull1D
Entries 4
Mean 0.01115
Std Dev 0.6421
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

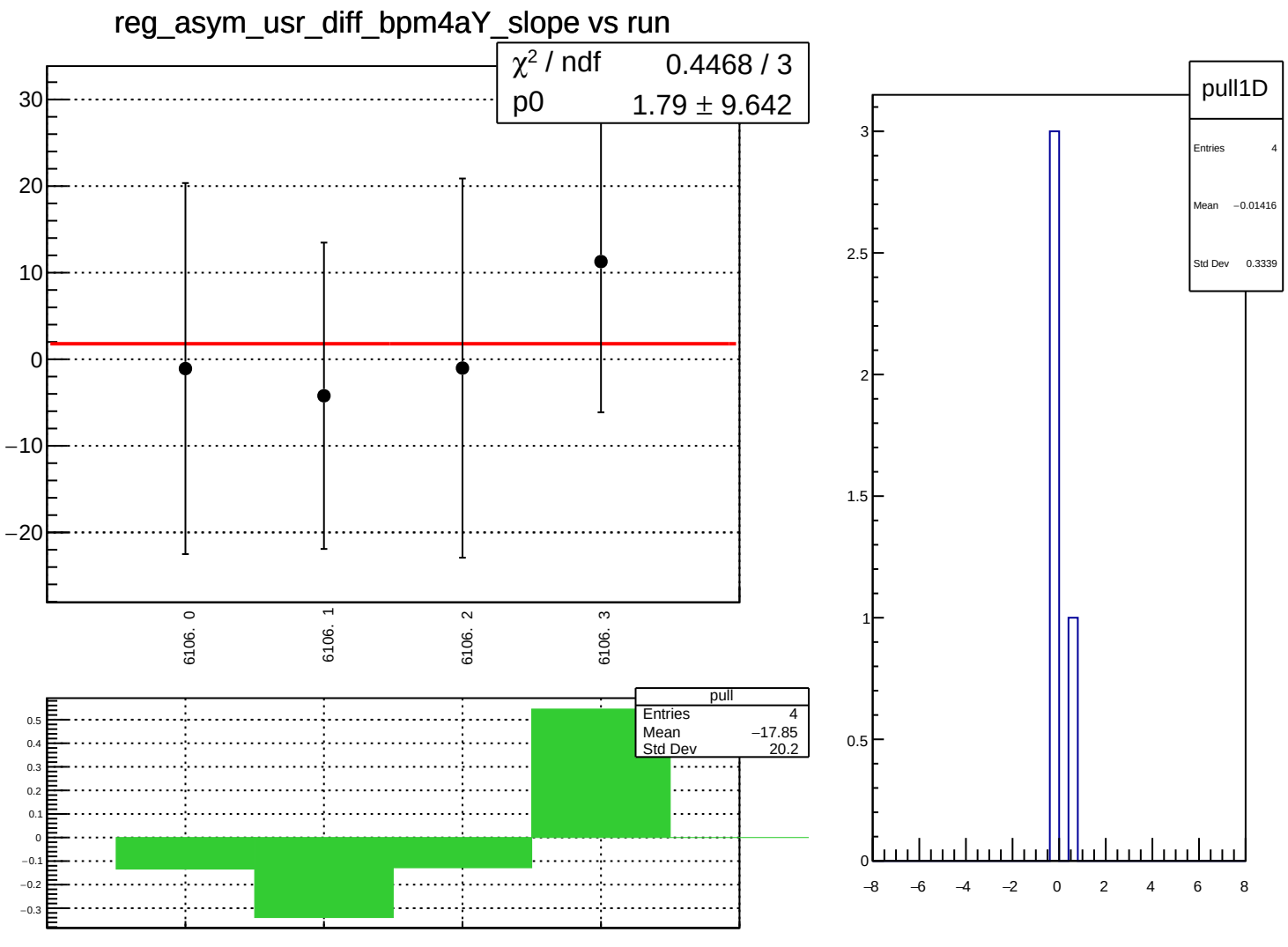

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 0.879 / 3
p0 −8.317 ± 3.027
0
−5
−10
−15
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.773
Std Dev 6.476
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

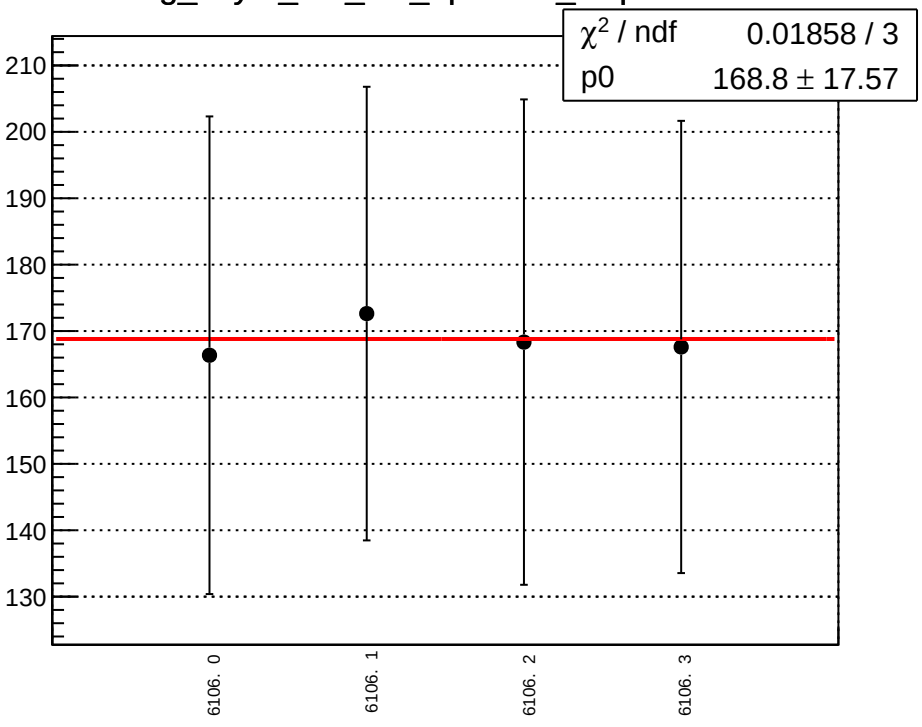

pull1D
Entries 4
Mean 0.004663
Std Dev 0.4687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

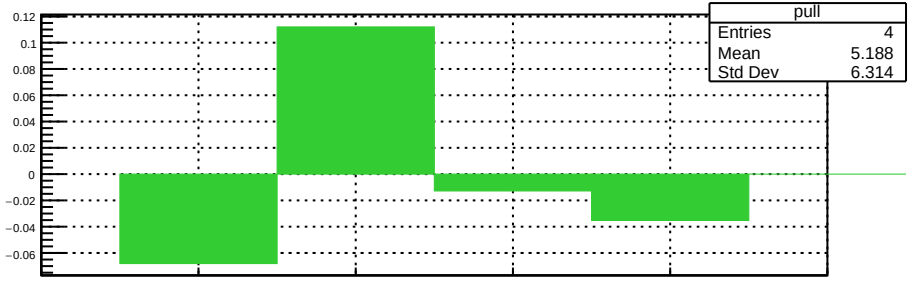

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 0.01573 / 3
p0 −88.78 ± 15.1
−60
−70
−80
−90
−100
−110
−120
6106. 0
6106. 1
6106. 2
6106. 3

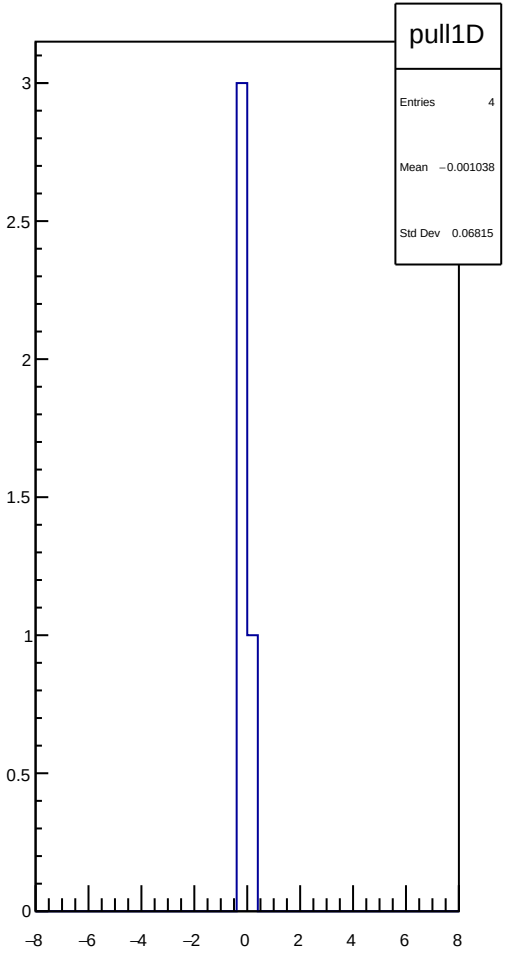

pull
Entries 4
Mean 200.5
Std Dev 198.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1

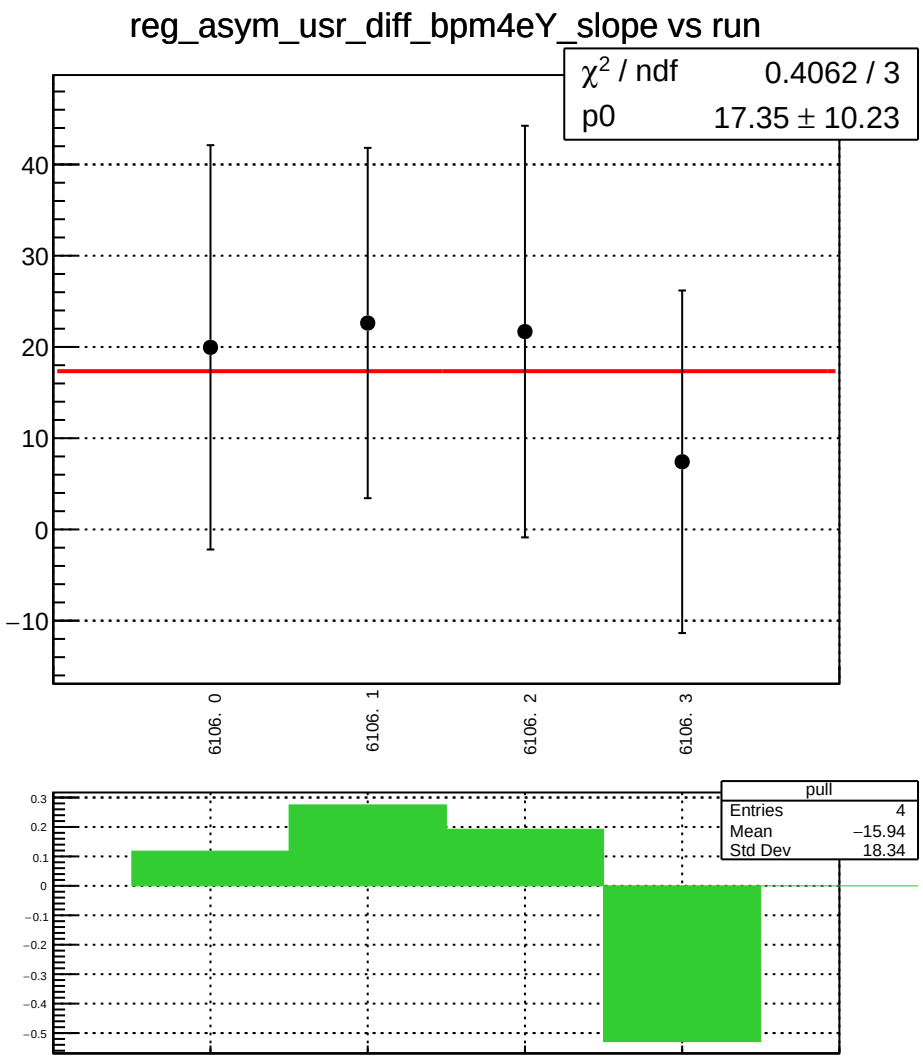

pull1D
Entries 4
Mean 0.0002342
Std Dev 0.0627
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

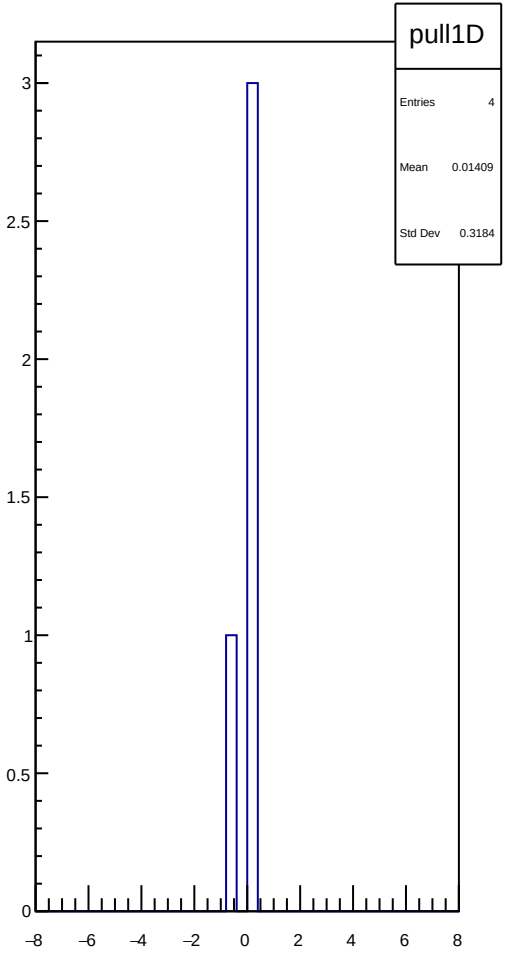

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 0.4468 / 3
p0 1.79 ± 9.642
30
20
10
0
−10
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.85
Std Dev 20.2
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.01416
Std Dev 0.3339
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

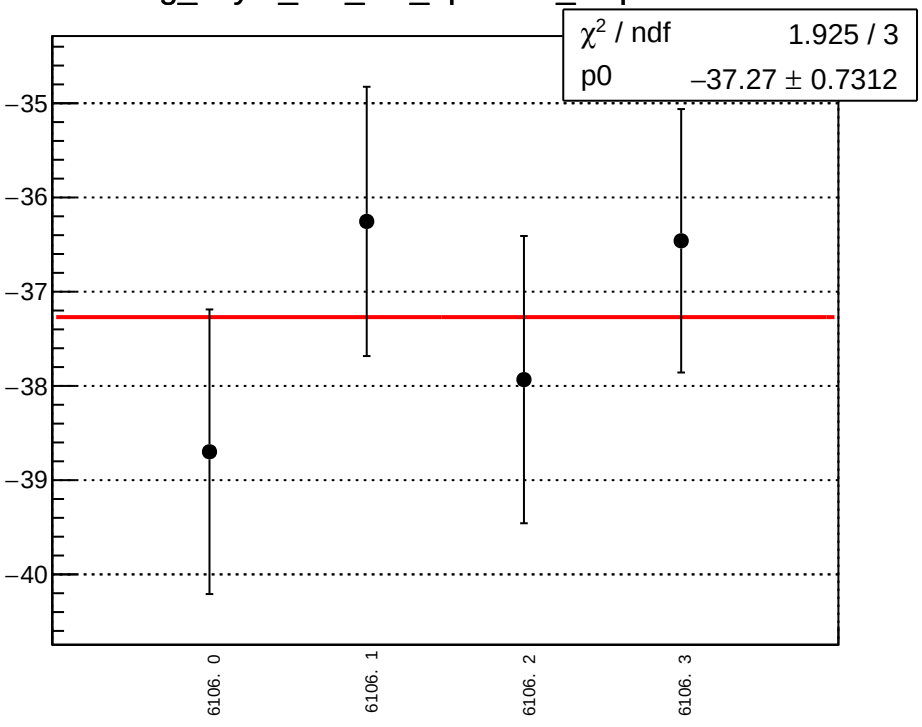

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 0.01858 / 3
p0 168.8 ± 17.57
210
200
190
180
170
160
150
140
130
6106. 0
6106. 1
6106. 2
6106. 3

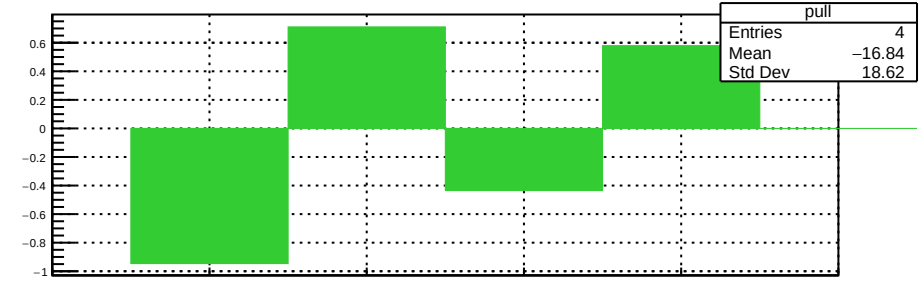

pull
Entries 4
Mean 5.188
Std Dev 6.314
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

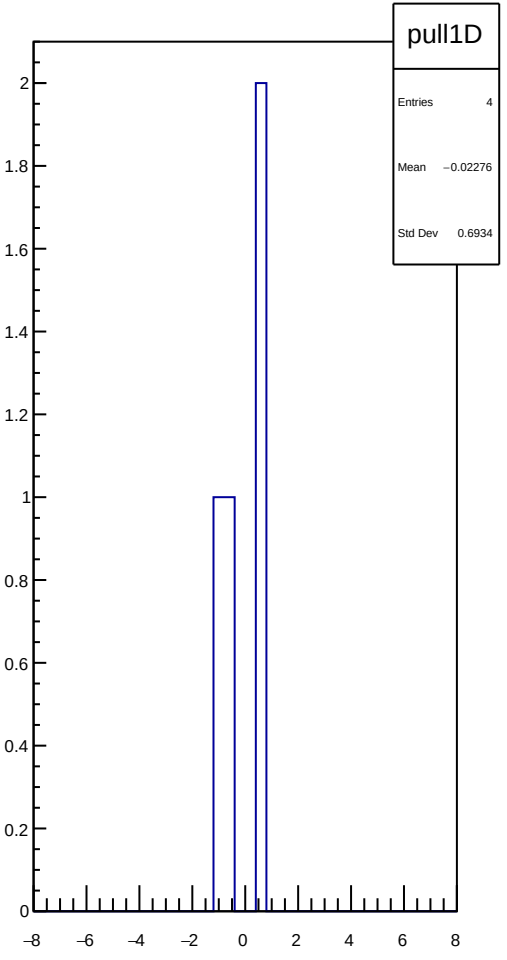

pull1D
Entries 4
Mean −0.001038
Std Dev 0.06815
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

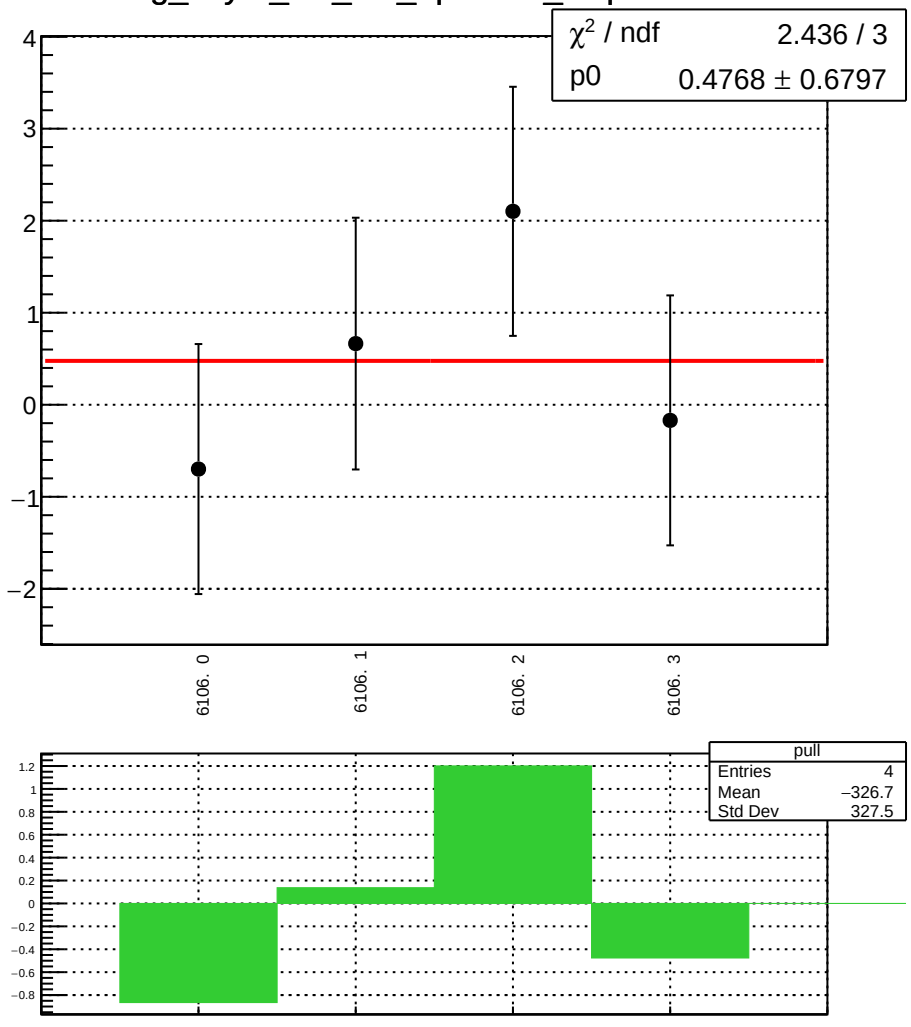

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 0.4062 / 3
p0 17.35 ± 10.23
40
30
20
10
0
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −15.94
Std Dev 18.34
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

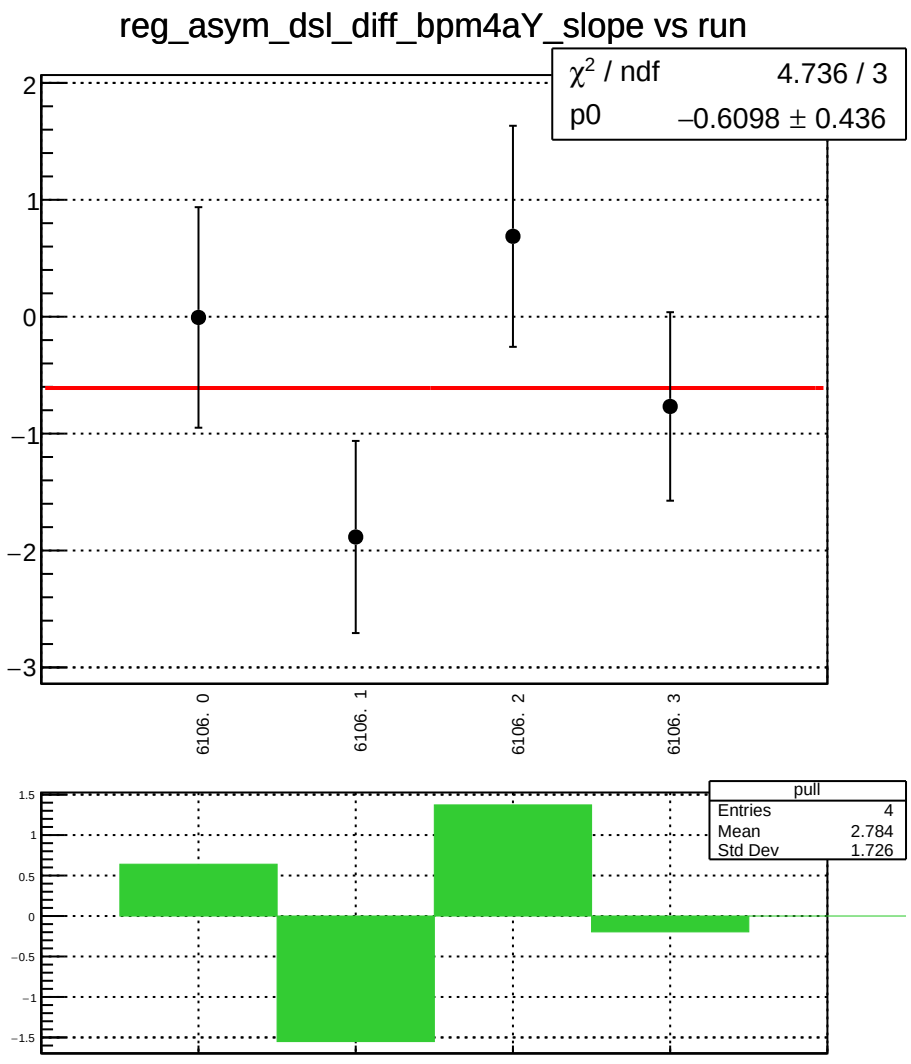

pull1D
Entries 4
Mean 0.01409
Std Dev 0.3184
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

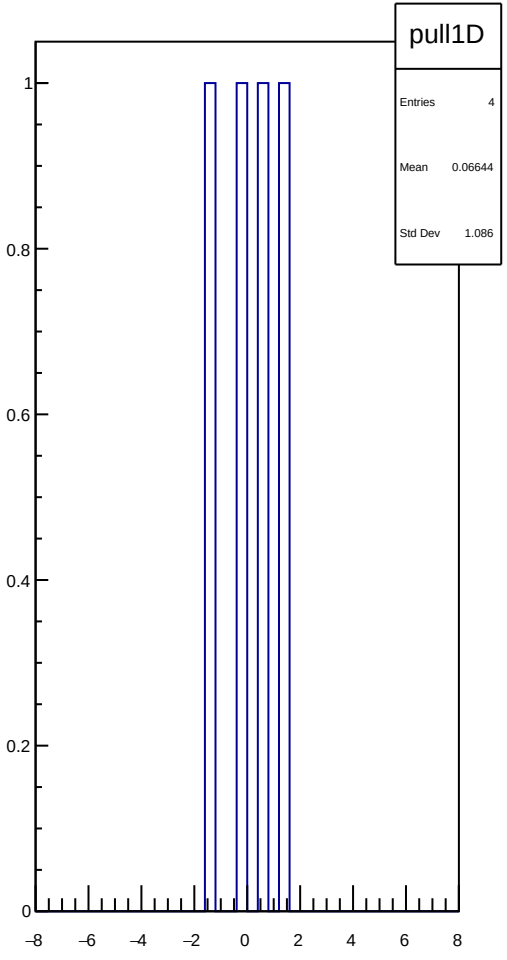

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 1.925 / 3
p0 −37.27 ± 0.7312
−35
−36
−37
−38
−39
−40
6106. 0
6106. 1
6106. 2
6106. 3

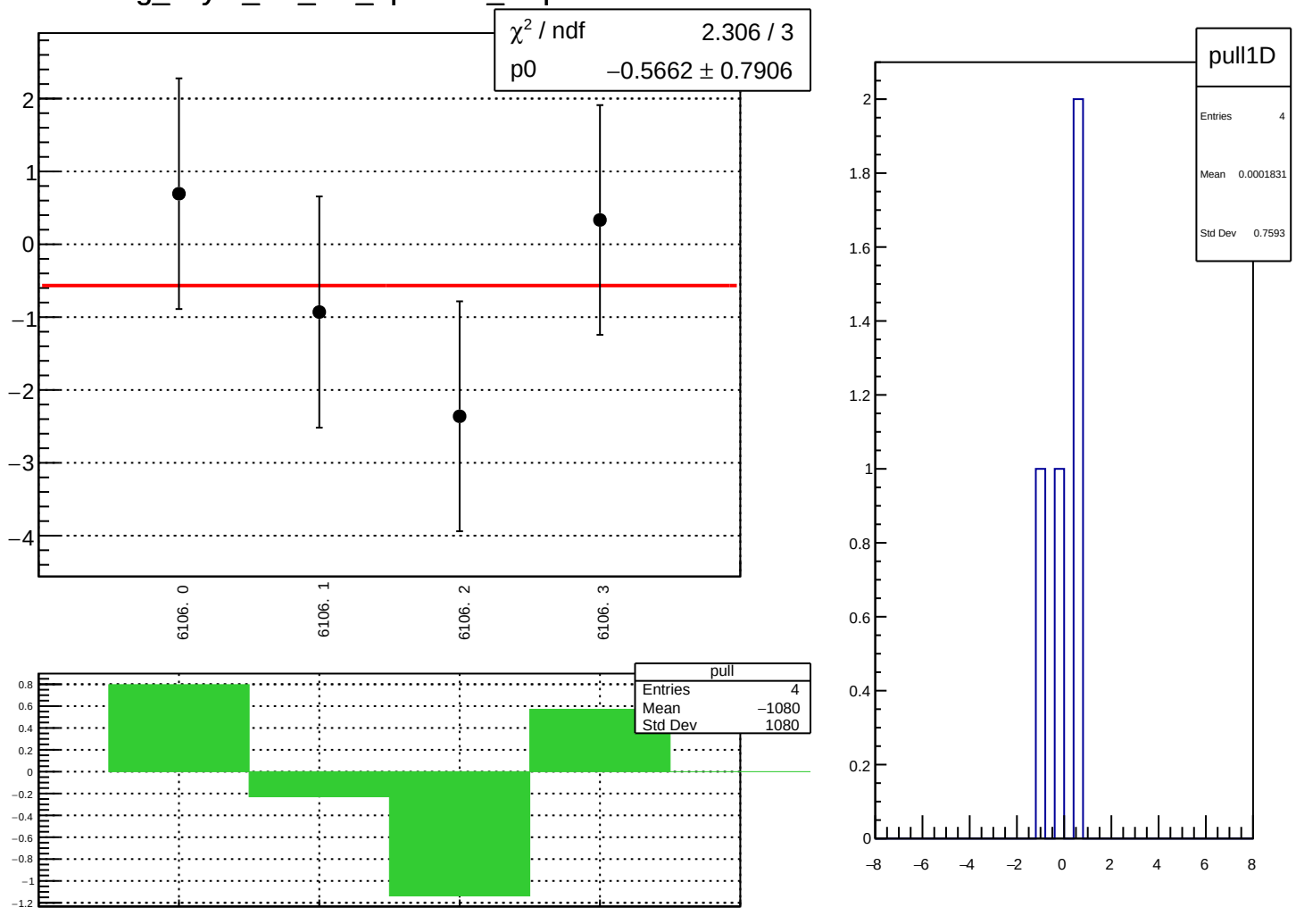

pull
Entries 4
Mean −16.84
Std Dev 18.62
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

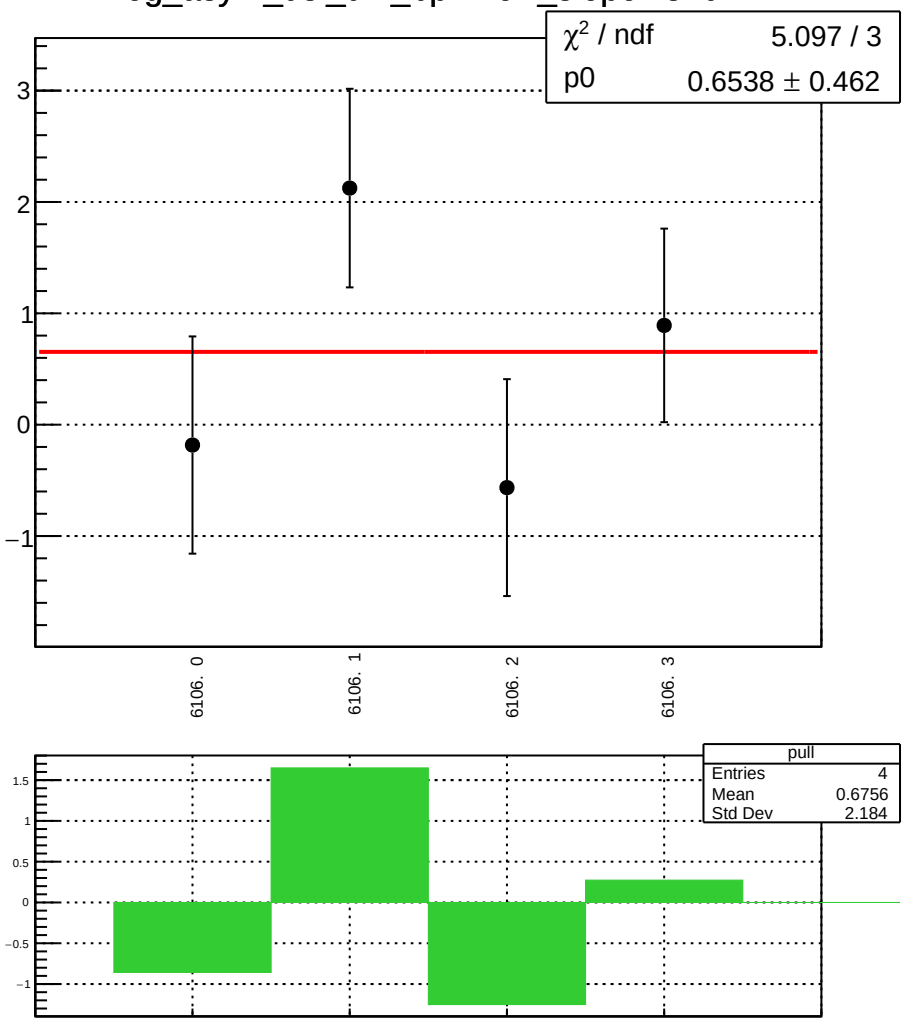

pull1D
Entries 4
Mean −0.02276
Std Dev 0.6934
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

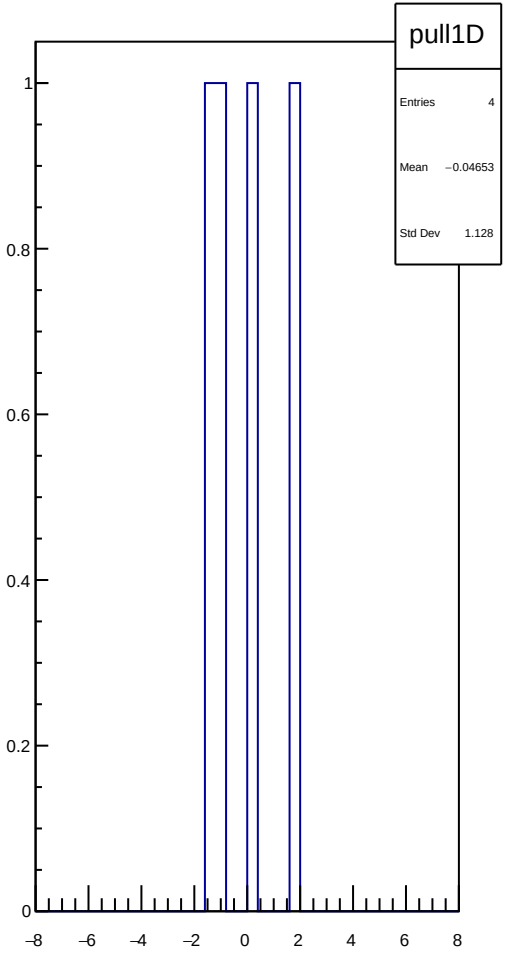

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 2.436 / 3
p0 0.4768 ± 0.6797
4
3
2
1
0
−1
−2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −326.7
Std Dev 327.5
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.0008484
Std Dev 0.7804
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

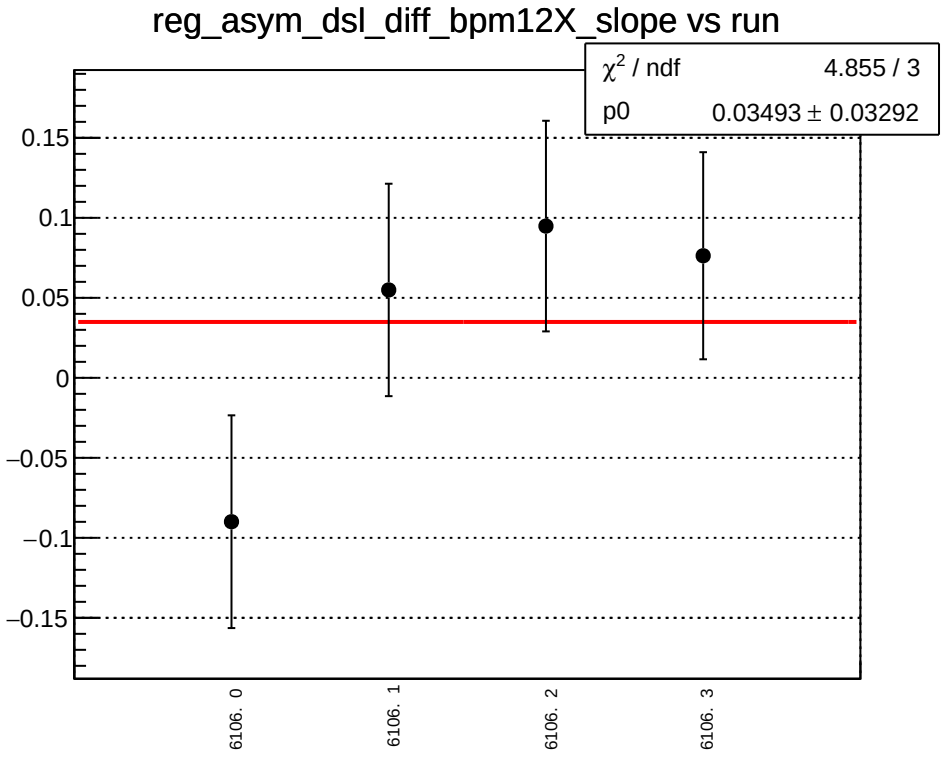

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 4.736 / 3
p0 −0.6098 ± 0.436
2
1
0
−1
−2
−3
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 2.784
Std Dev 1.726
1.5
1
0.5
0
−0.5
−1
−1.5

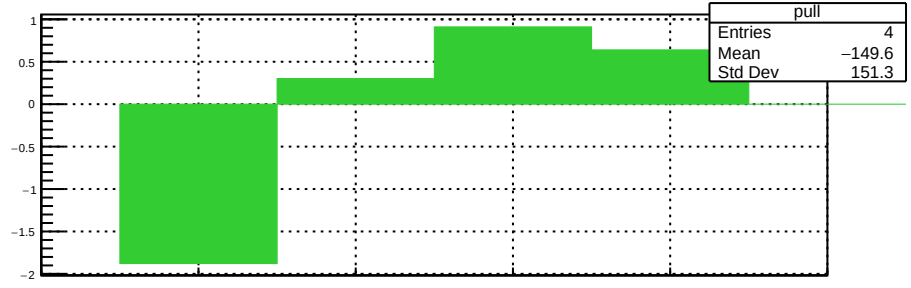

pull1D
Entries 4
Mean 0.06644
Std Dev 1.086
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

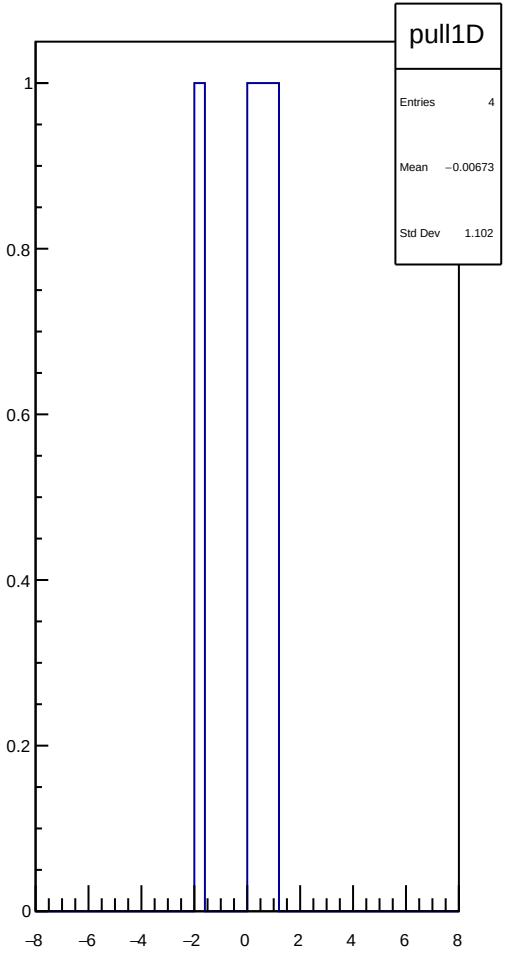

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 2.306 / 3
p0 −0.5662 ± 0.7906
2
1
0
−1
−2
−3
−4
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −1080
Std Dev 1080
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean 0.0001831
Std Dev 0.7593
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

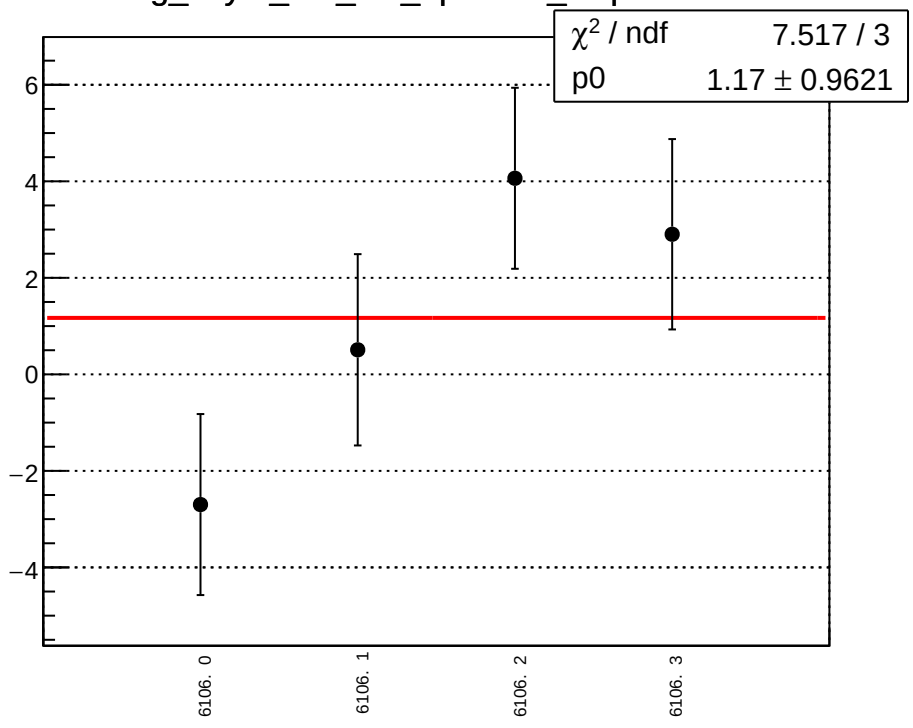

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 5.097 / 3
p0 0.6538 ± 0.462
3
2
1
0
−1
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 0.6756
Std Dev 2.184
1.5
1
0.5
0
−0.5
−1

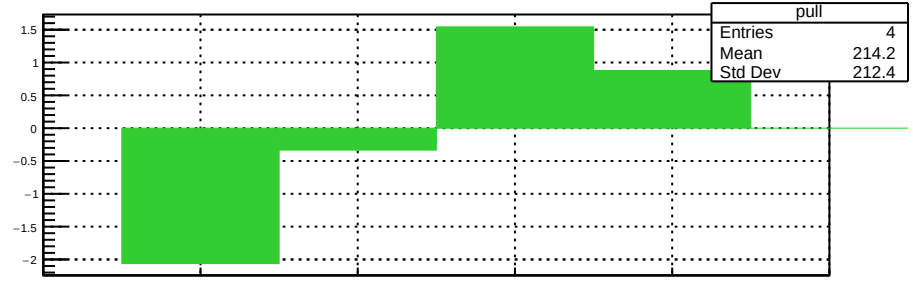

pull1D
Entries 4
Mean −0.04653
Std Dev 1.128
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

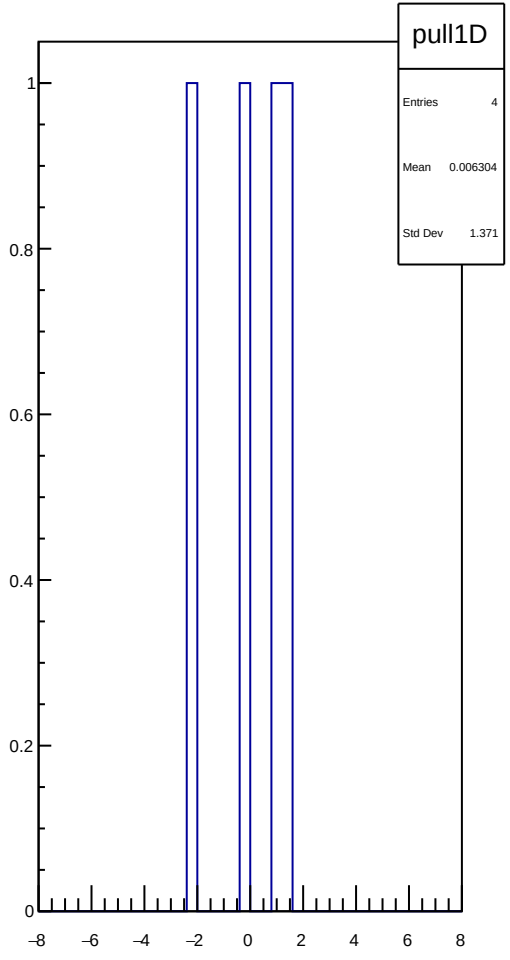

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 4.855 / 3
p0 0.03493 ± 0.03292
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6106. 0
6106. 1
6106. 2
6106. 3

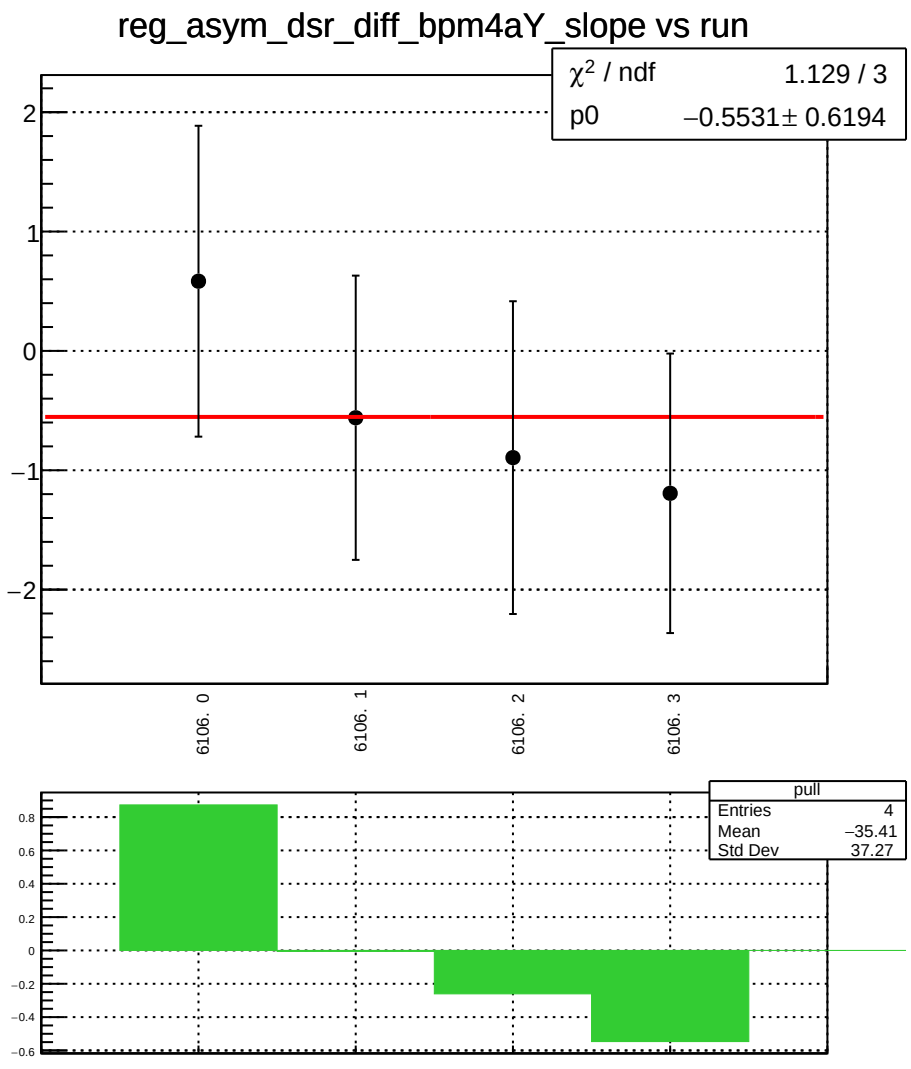

pull
Entries 4
Mean −149.6
Std Dev 151.3
1
0.5
0
−0.5
−1
−1.5
−2

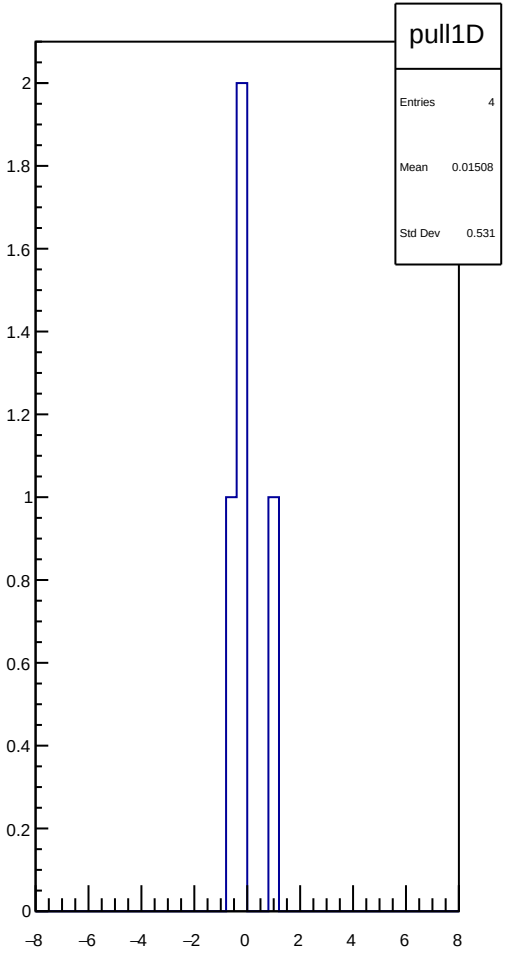

pull1D
Entries 4
Mean −0.00673
Std Dev 1.102
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

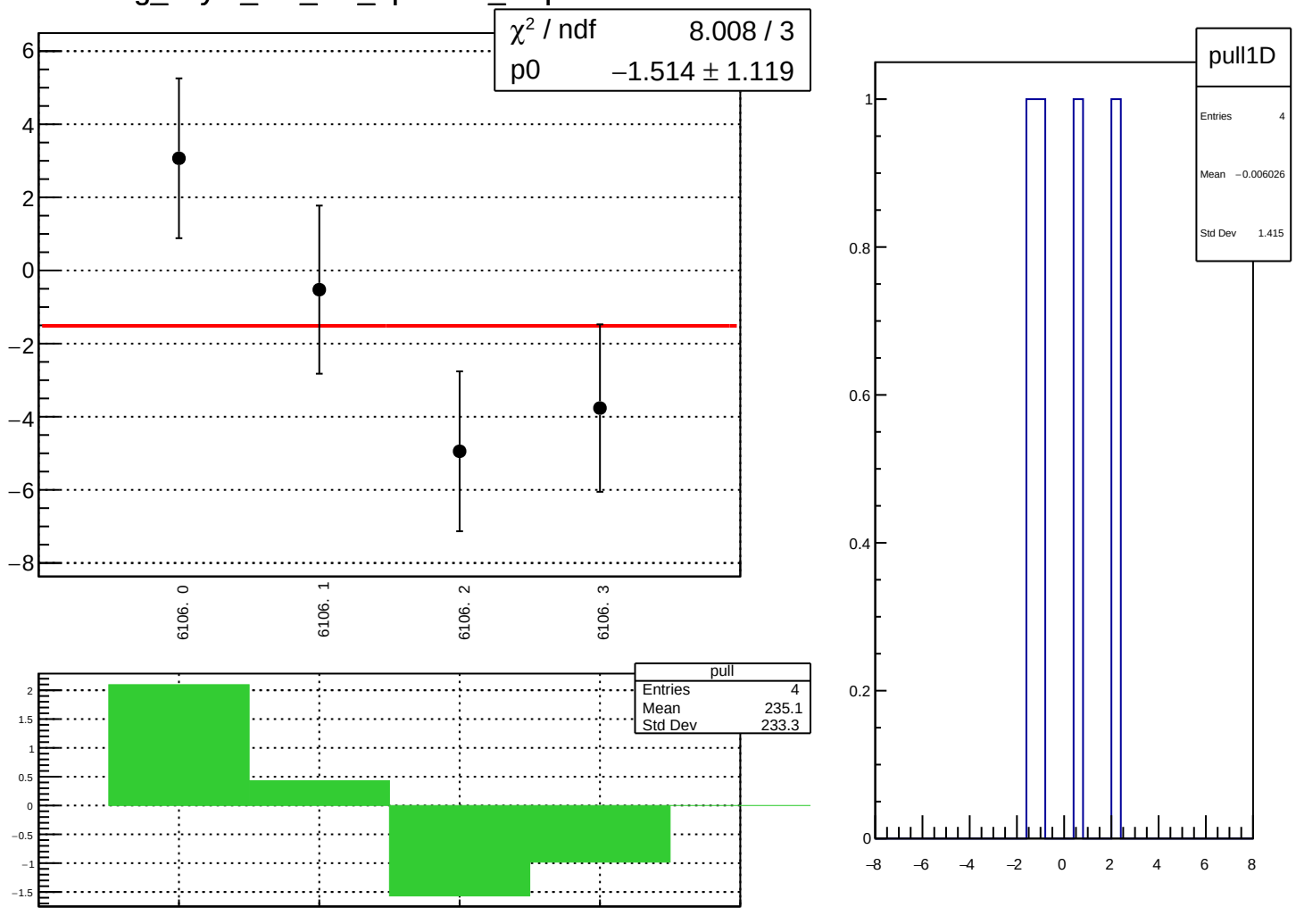

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 7.517 / 3
p0 1.17 ± 0.9621
6
4
2
0
−2
−4
6106. 0
6106. 1
6106. 2
6106. 3

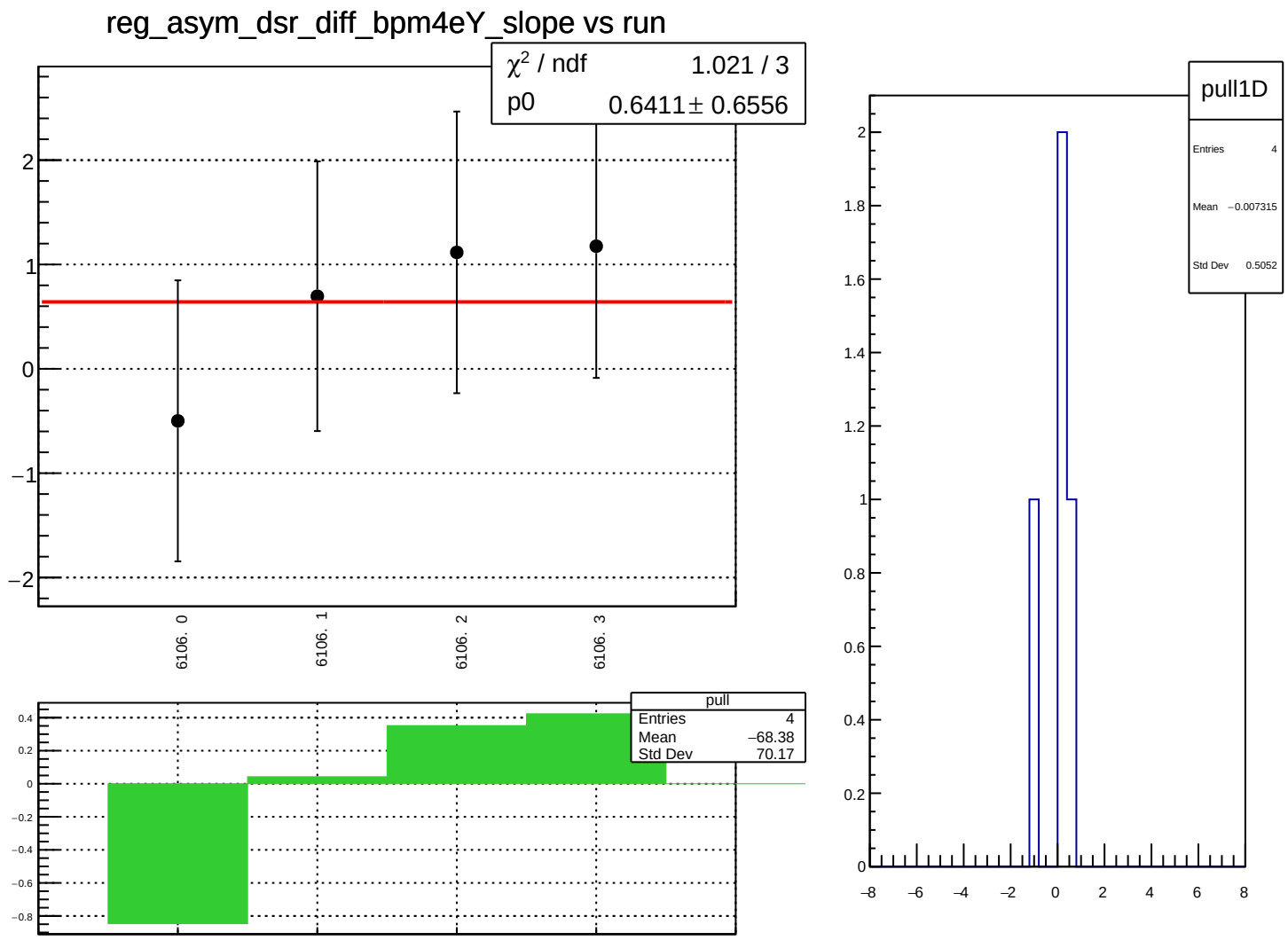

pull
Entries 4
Mean 214.2
Std Dev 212.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

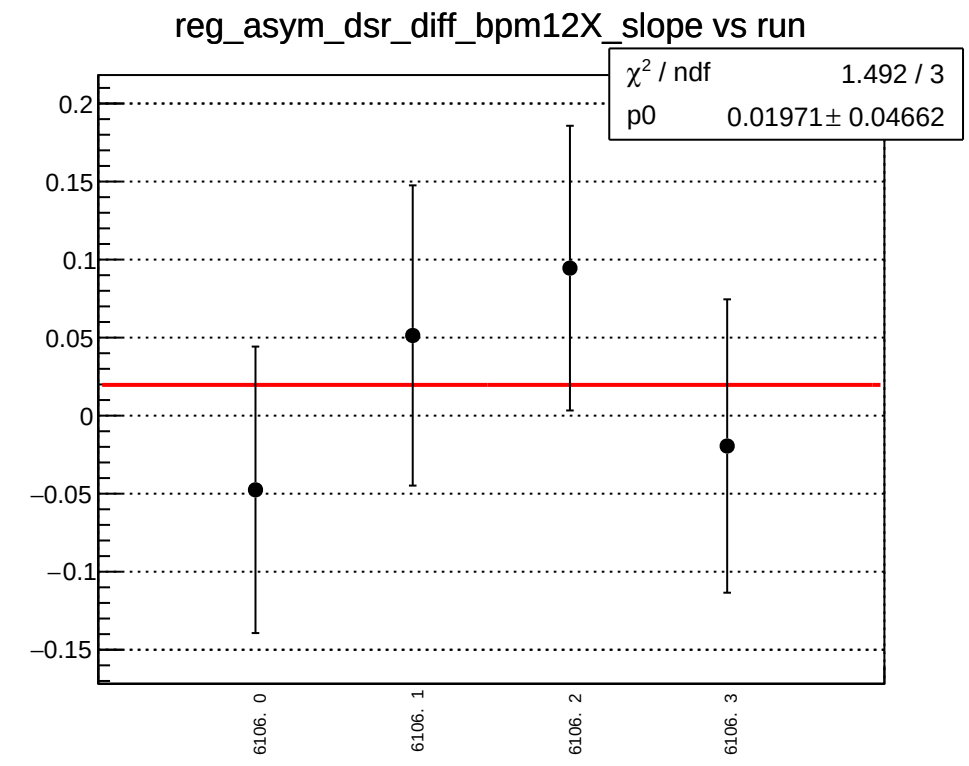

pull1D
Entries 4
Mean 0.006304
Std Dev 1.371
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

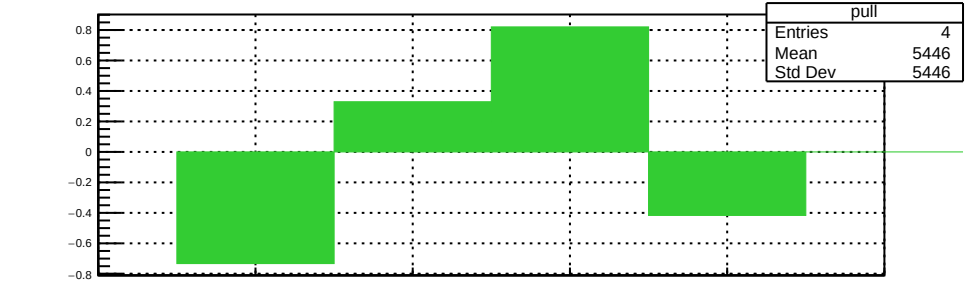

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 1.129 / 3
p0 −0.5531± 0.6194
2
1
0
−1
−2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −35.41
Std Dev 37.27
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

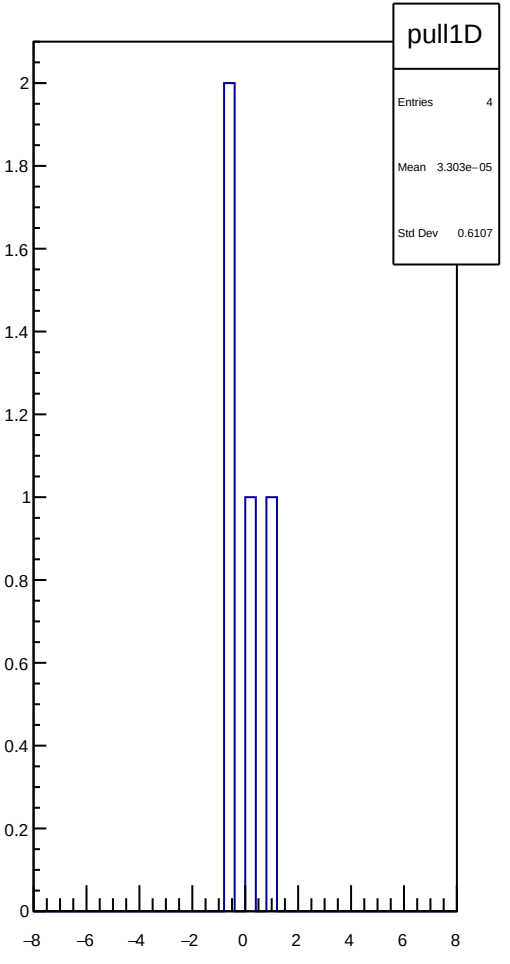

pull1D
Entries 4
Mean 0.01508
Std Dev 0.531
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

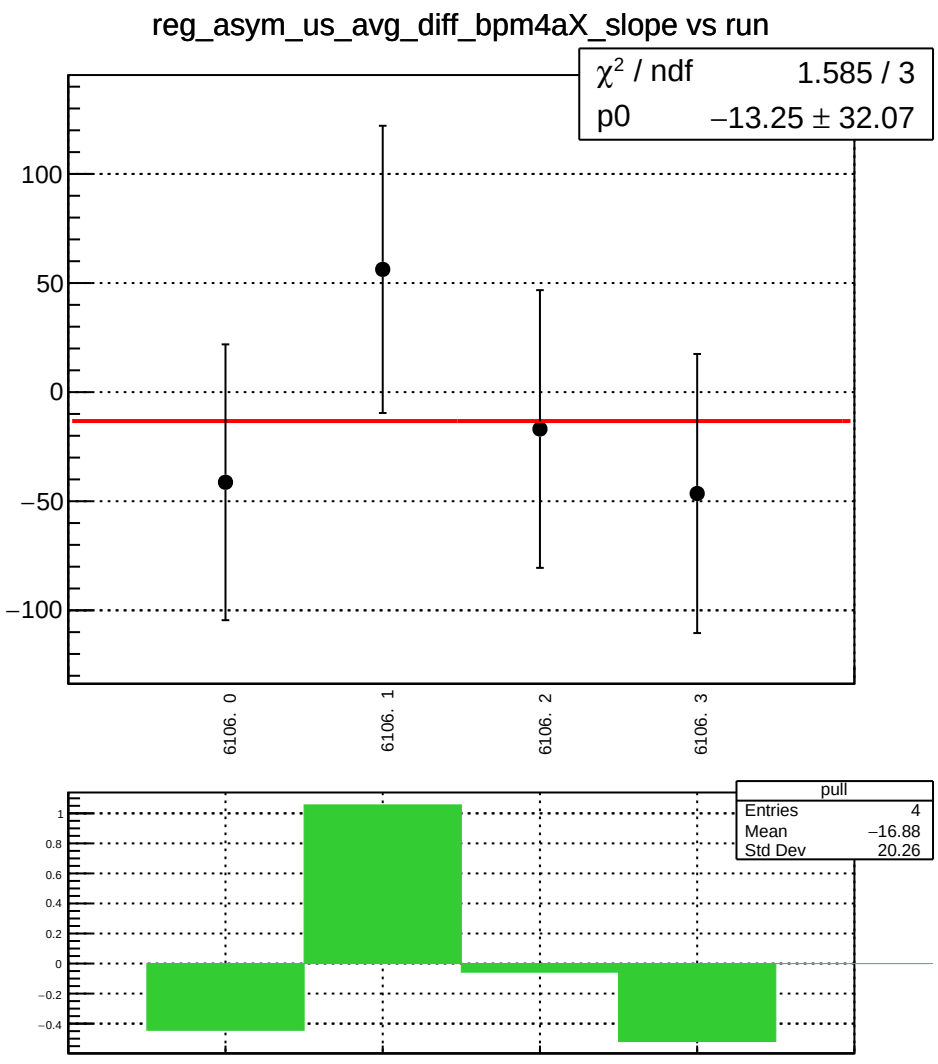

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 8.008 / 3
p0 −1.514 ± 1.119
6
4
2
0
−2
−4
−6
−8
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 235.1
Std Dev 233.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean −0.006026
Std Dev 1.415
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

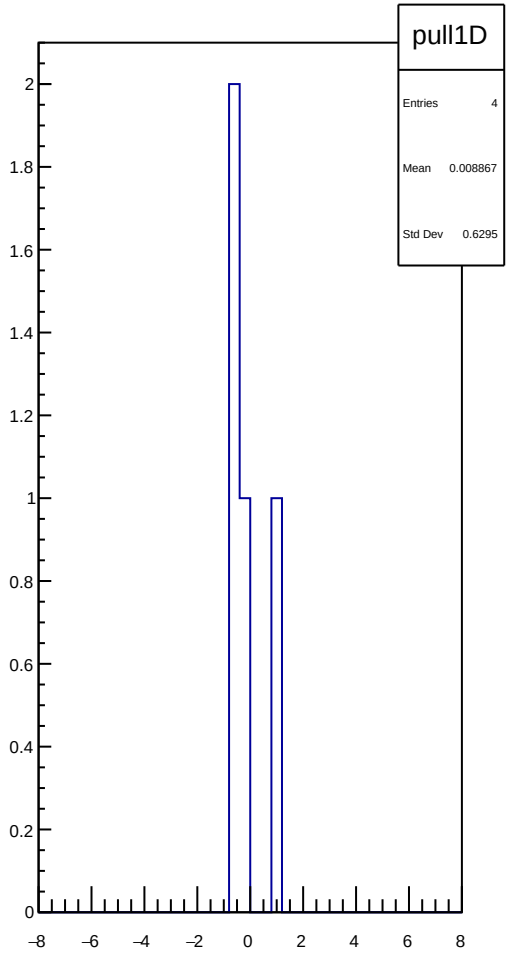

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 1.021 / 3
p0 0.6411 ± 0.6556
2
1
0
−1
−2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −68.38
Std Dev 70.17
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.007315
Std Dev 0.5052
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

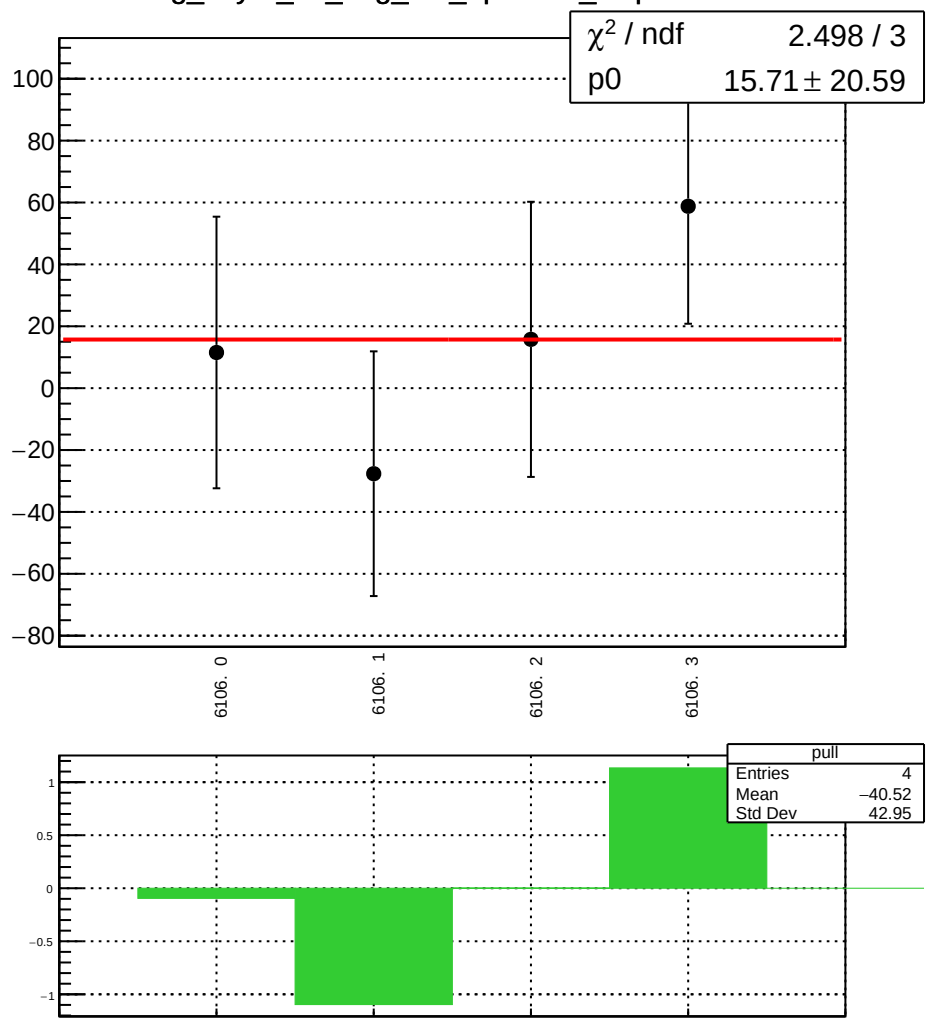

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 1.492 / 3
p0 0.01971 ± 0.04662
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6106. 0
6106. 1
6106. 2
6106. 3

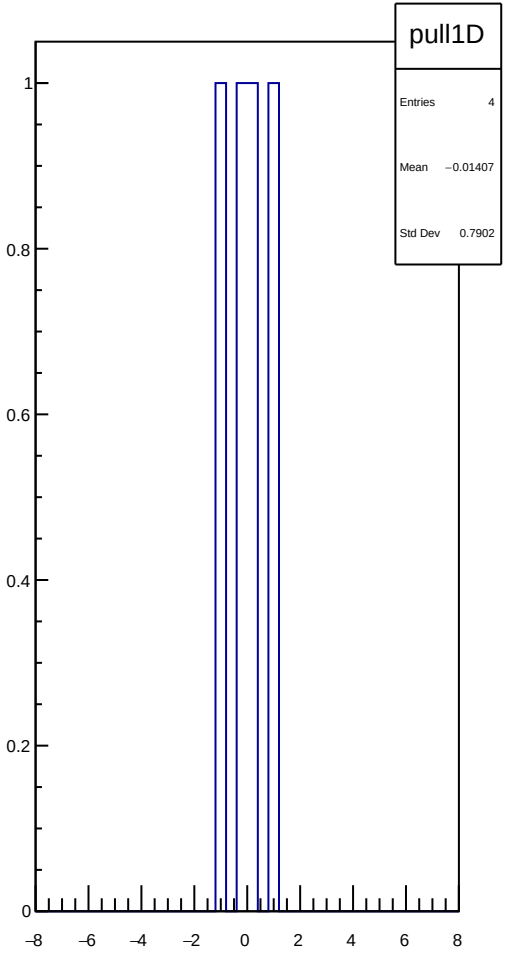

pull
Entries 4
Mean 5446
Std Dev 5446
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

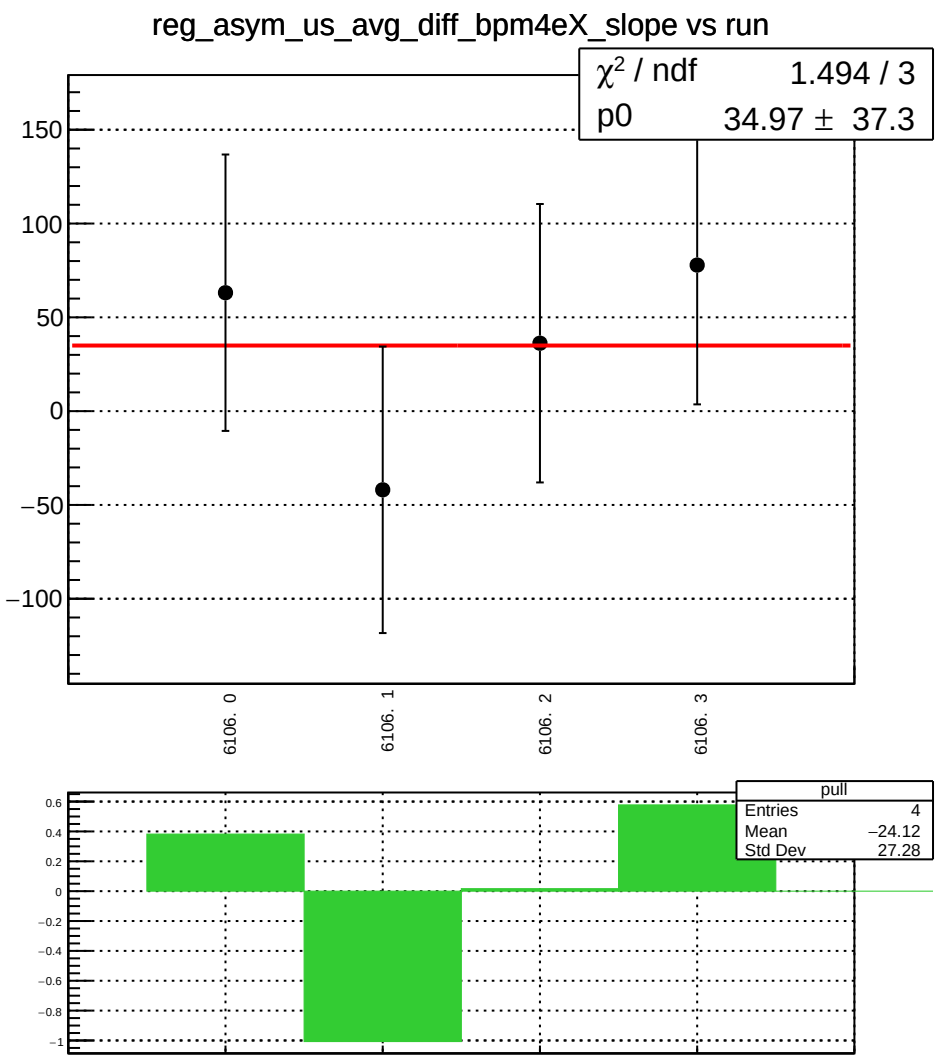

pull1D
Entries 4
Mean 3.303e−05
Std Dev 0.6107
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

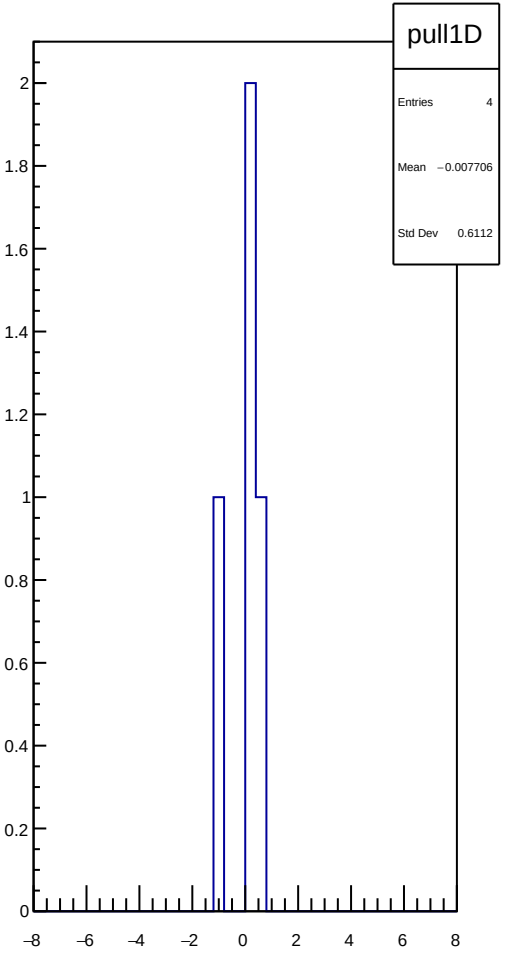

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.585 / 3
p0 −13.25 ± 32.07
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −16.88
Std Dev 20.26
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

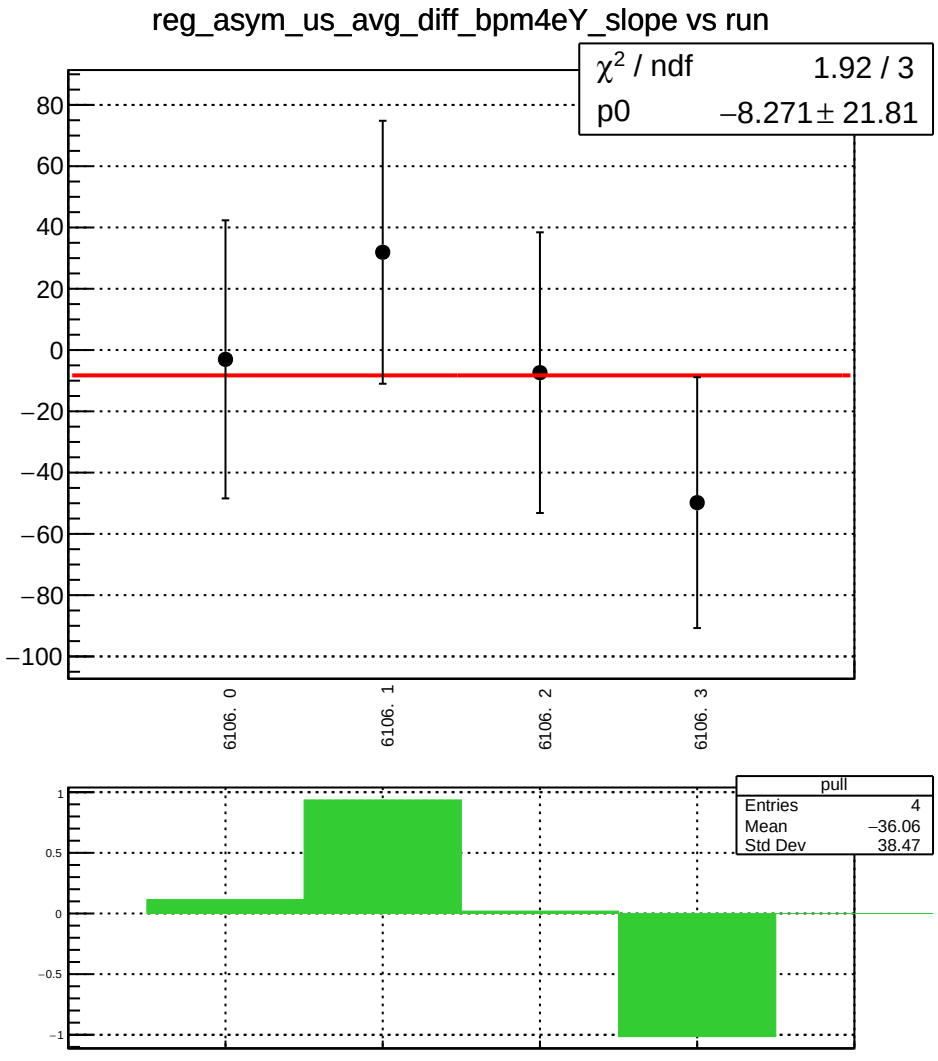

pull1D
Entries 4
Mean 0.008867
Std Dev 0.6295
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

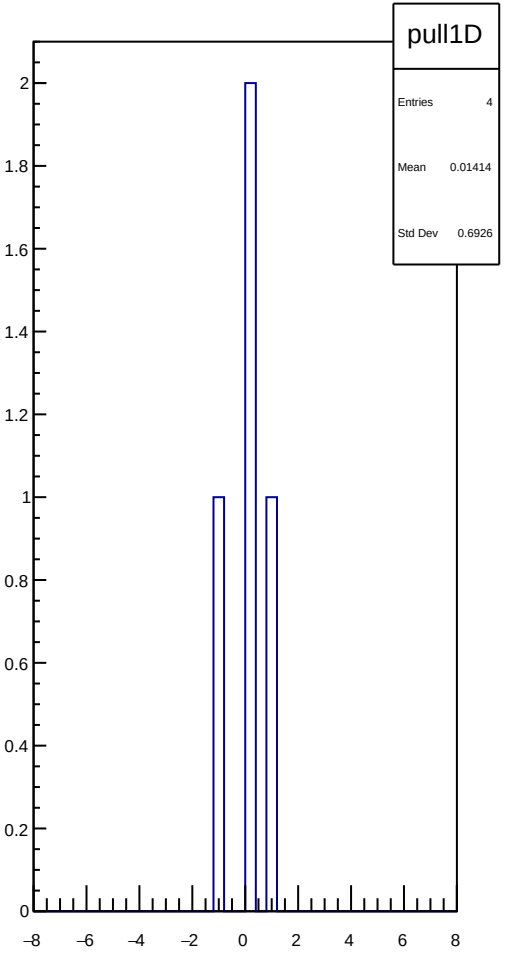

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.498 / 3
p0 15.71 ± 20.59
100
80
60
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −40.52
Std Dev 42.95
1
0.5
0
−0.5
−1

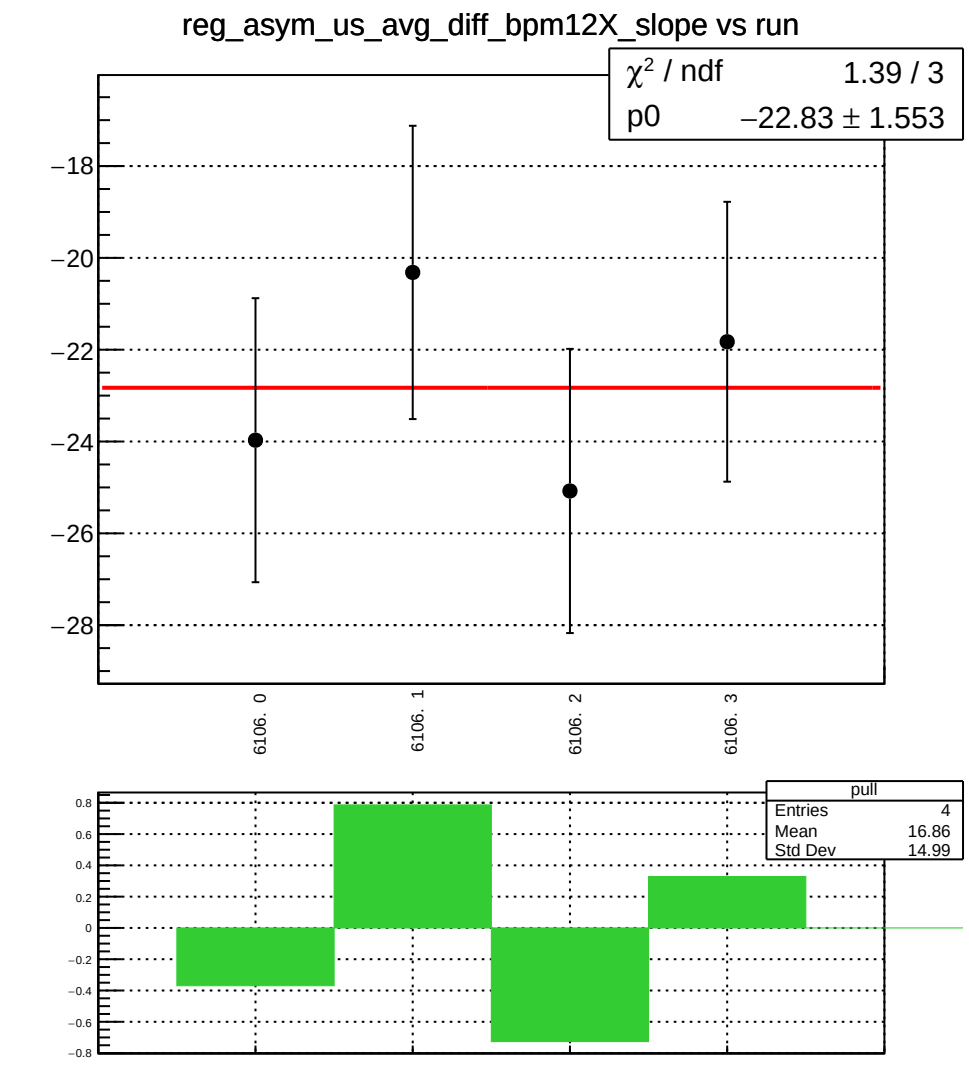

pull1D
Entries 4
Mean −0.01407
Std Dev 0.7902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

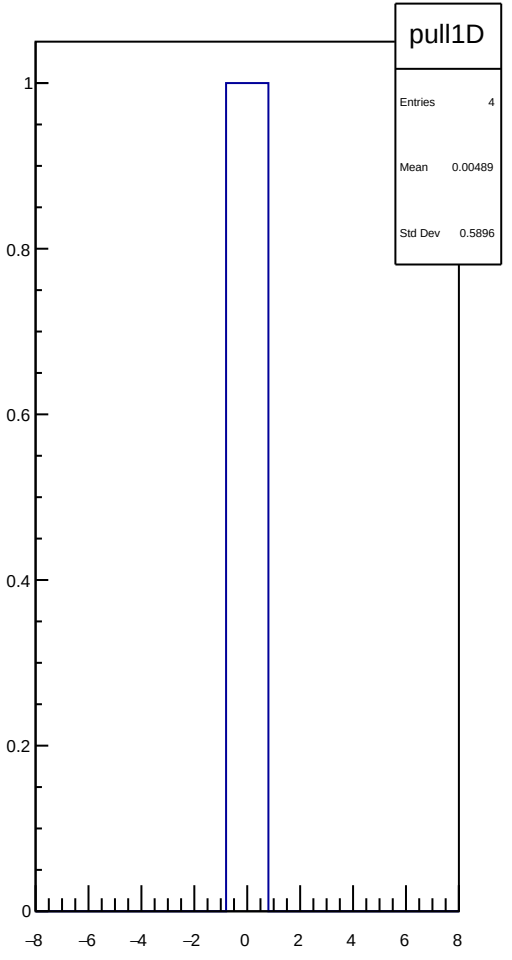

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.494 / 3
p0 34.97 ± 37.3
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −24.12
Std Dev 27.28
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

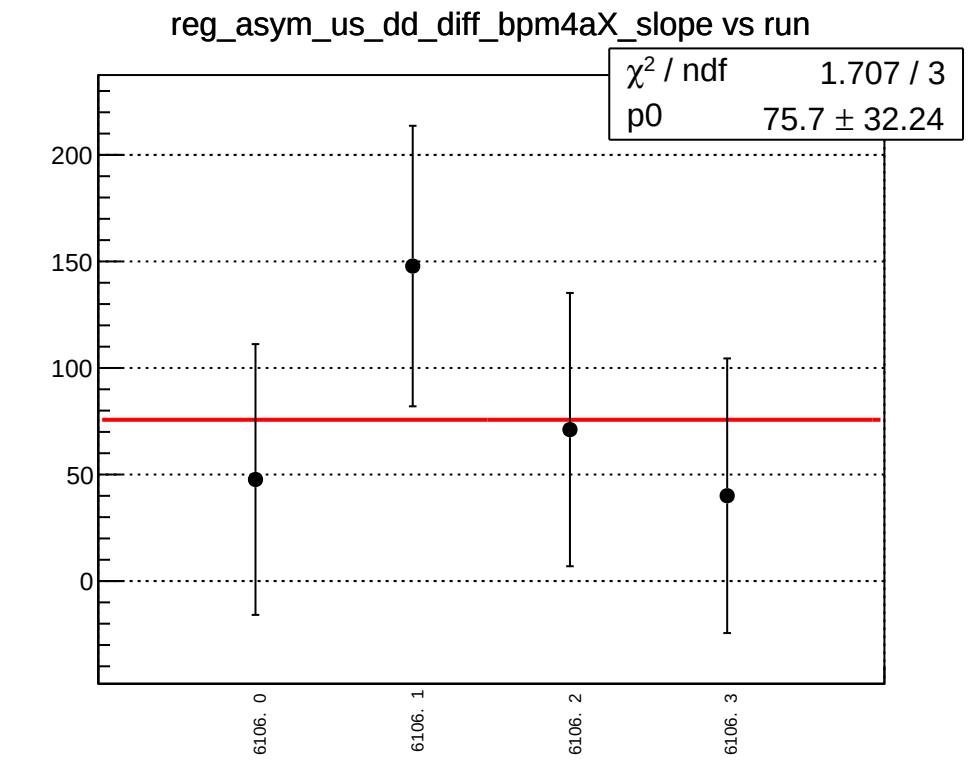

pull1D
Entries 4
Mean −0.007706
Std Dev 0.6112
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

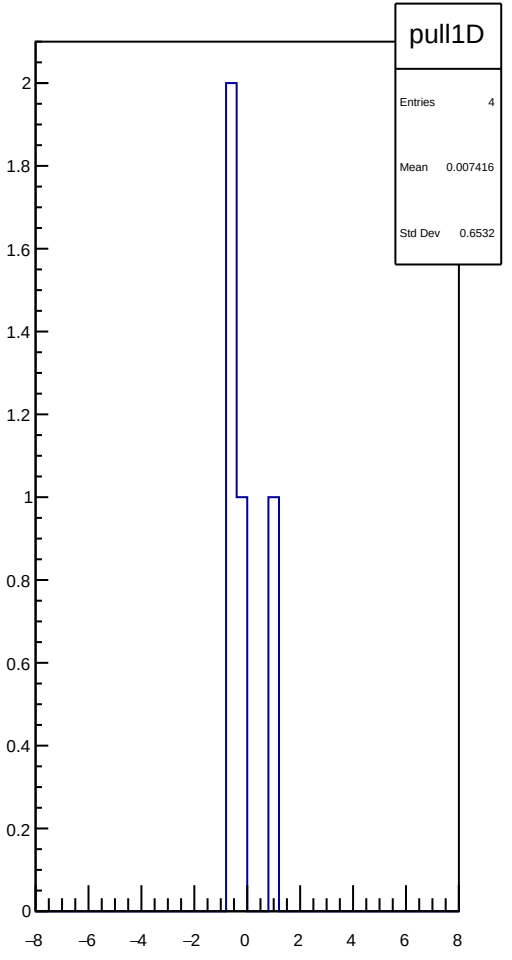

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.92 / 3
p0 −8.271 ± 21.81
80
60
40
20
0
−20
−40
−60
−80
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −36.06
Std Dev 38.47
1
0.5
0
−0.5
−1

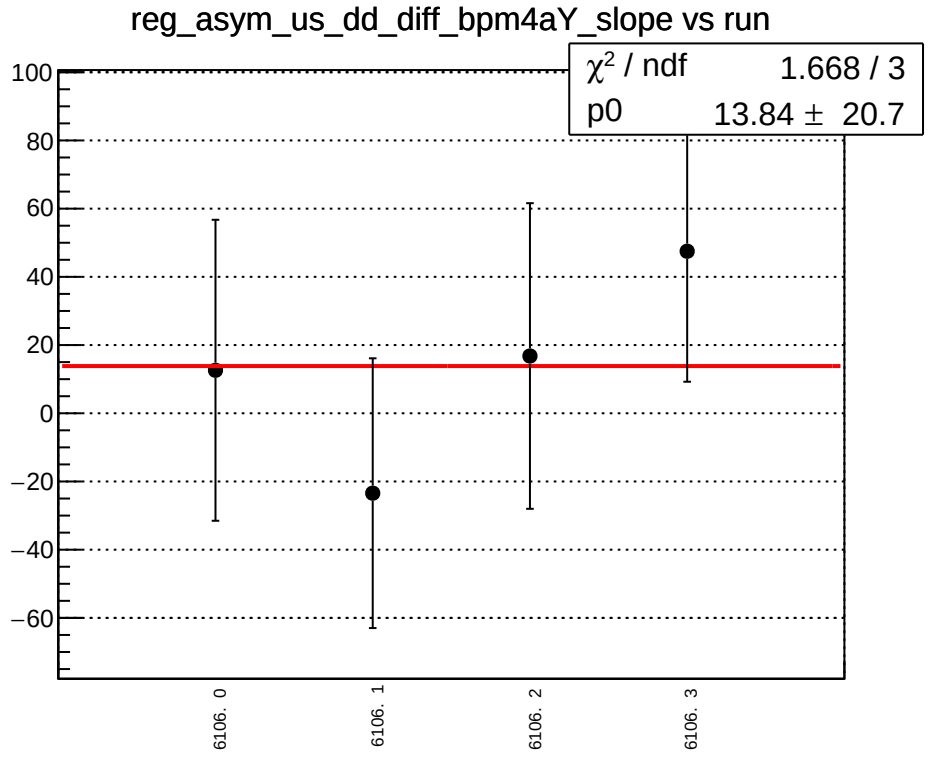

pull1D
Entries 4
Mean 0.01414
Std Dev 0.6926
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

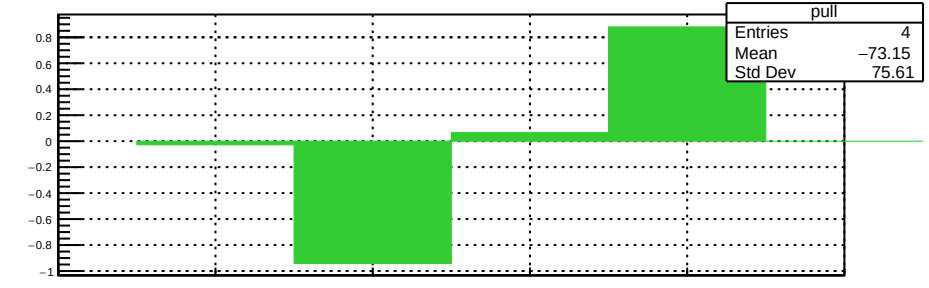

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 1.39 / 3
p0 −22.83 ± 1.553
−18
−20
−22
−24
−26
−28
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 16.86
Std Dev 14.99
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

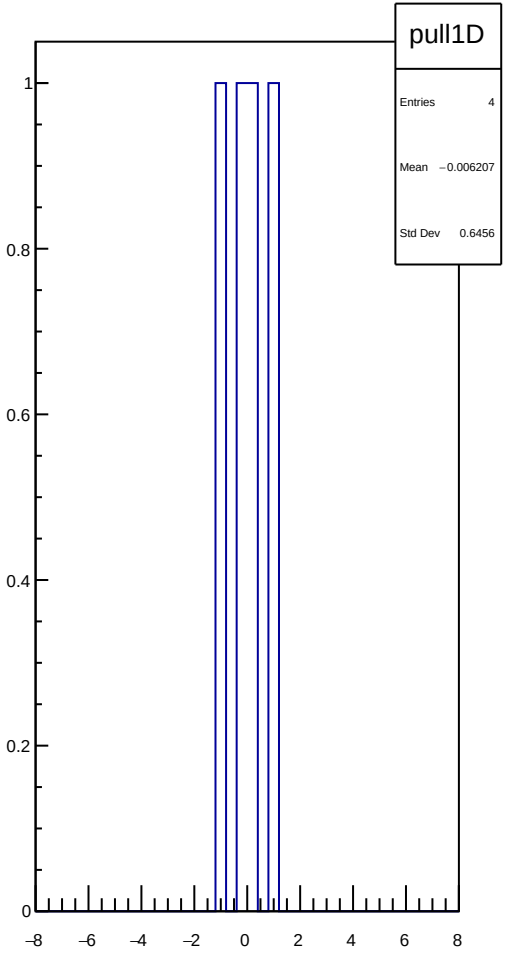

pull1D
Entries 4
Mean 0.00489
Std Dev 0.5896
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

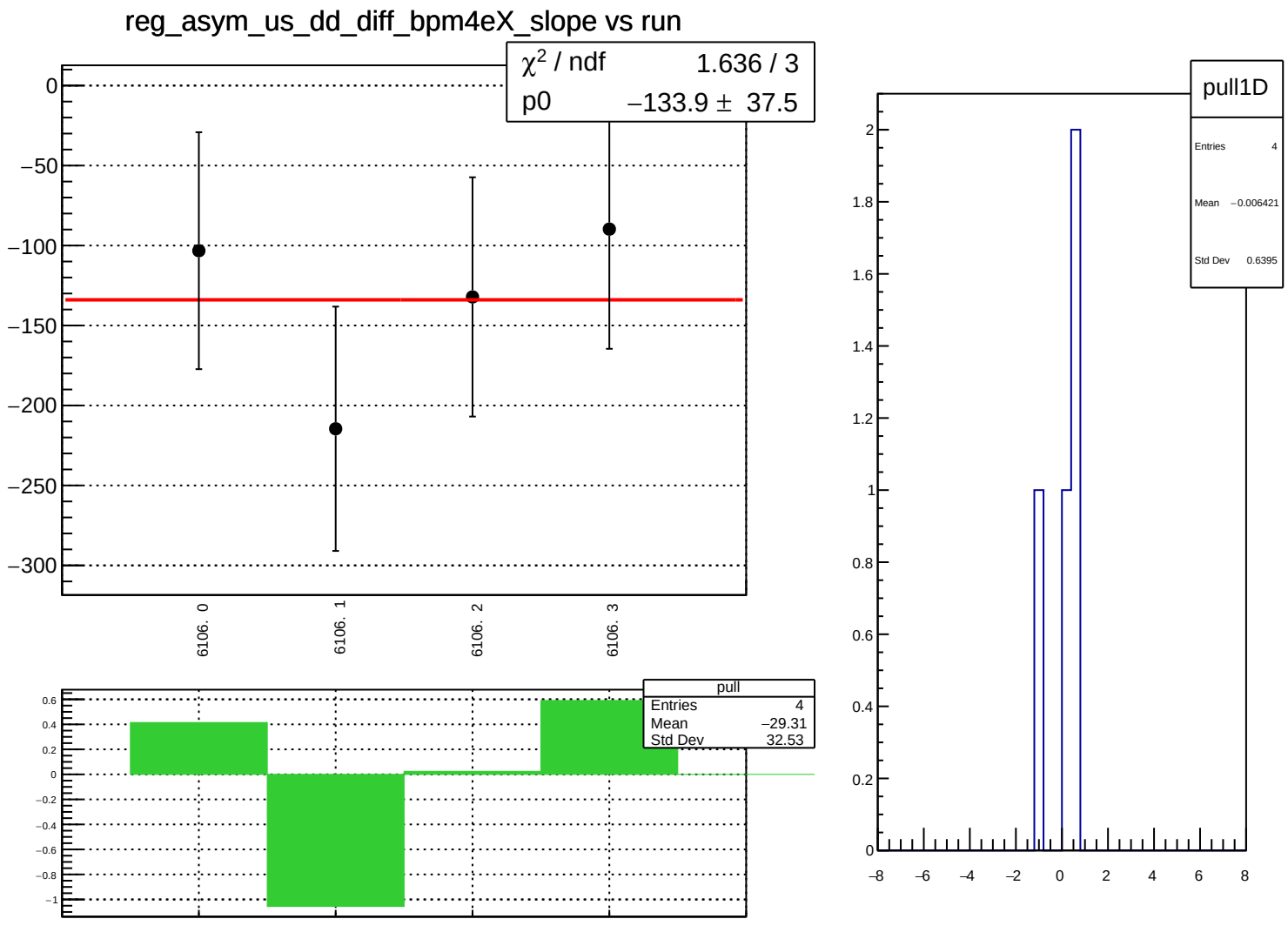

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.707 / 3
p0 75.7 ± 32.24
200
150
100
50
0
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −23.35
Std Dev 26.64
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

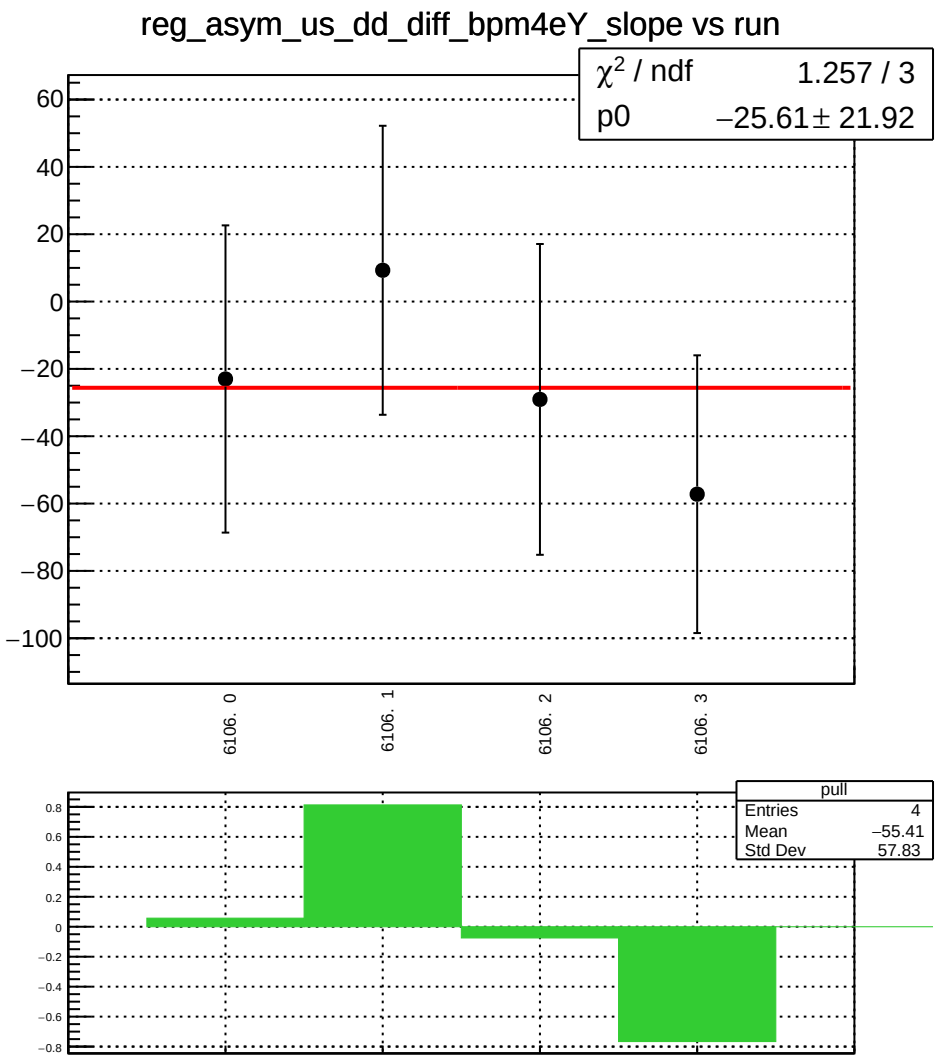

pull1D
Entries 4
Mean 0.007416
Std Dev 0.6532
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

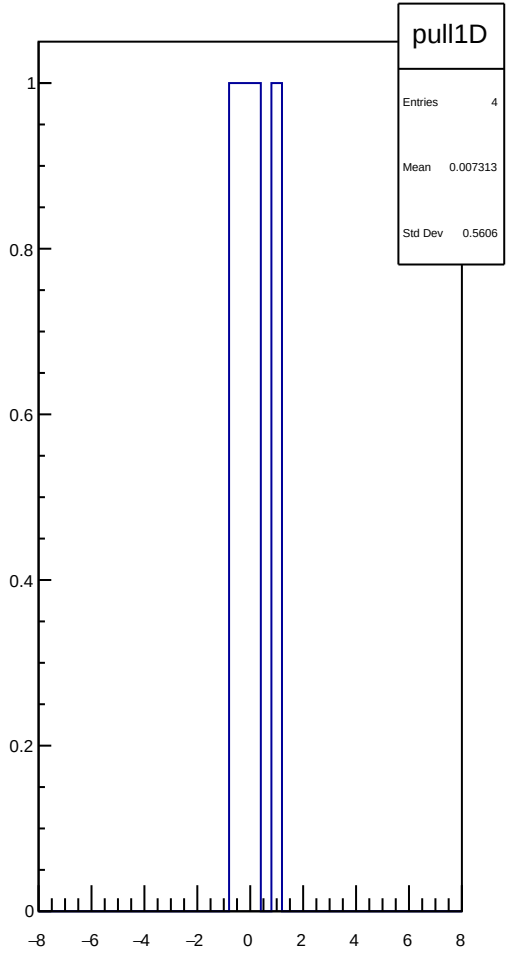

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.668 / 3
p0 13.84 ± 20.7
100
80
60
40
20
0
−20
−40
−60
6106. 0
6106. 1
6106. 2
6106. 3

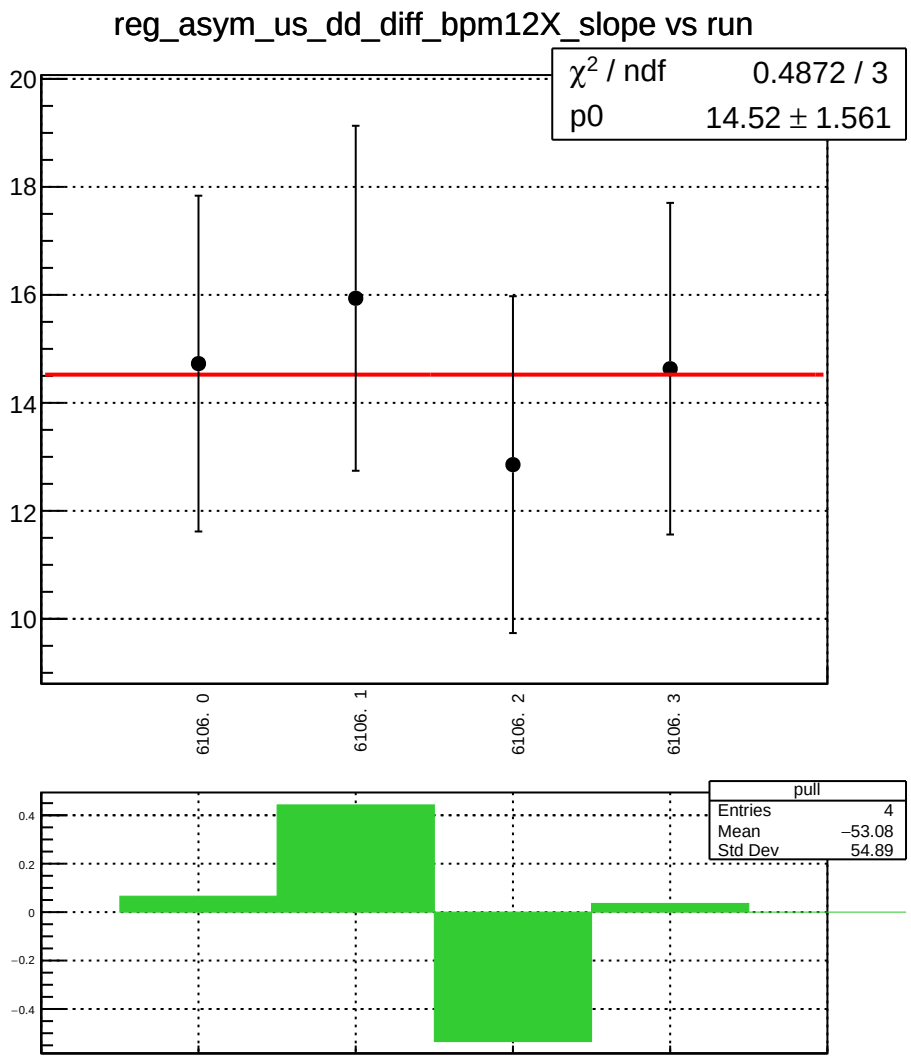

pull
Entries 4
Mean −73.15
Std Dev 75.61
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

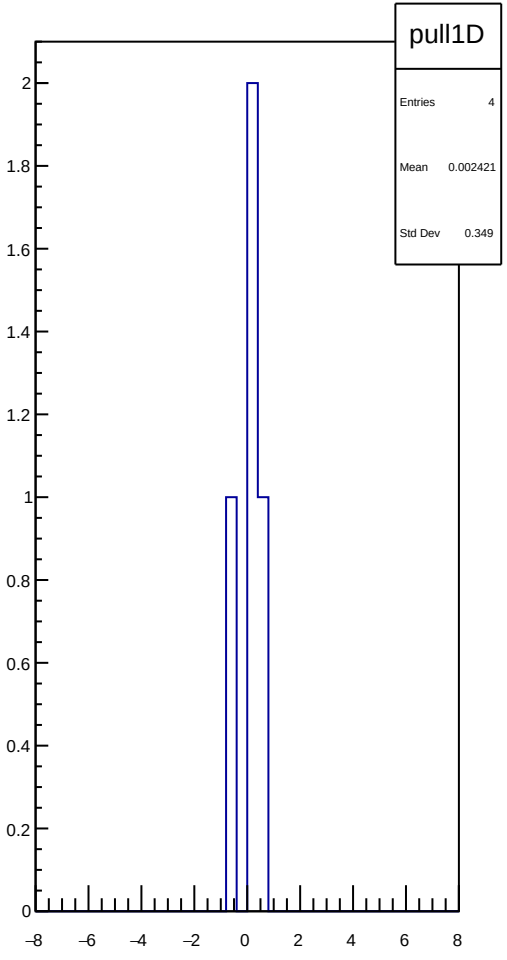

pull1D
Entries 4
Mean −0.006207
Std Dev 0.6456
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

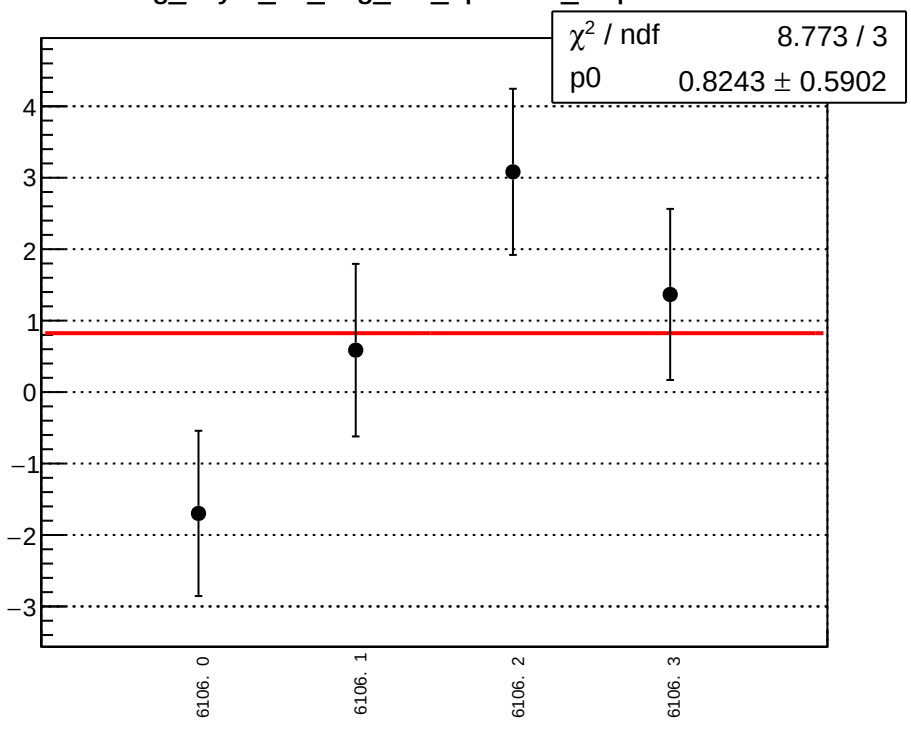

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.636 / 3
p0 −133.9 ± 37.5
0
−50
−100
−150
−200
−250
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −29.31
Std Dev 32.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean −0.006421
Std Dev 0.6395
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

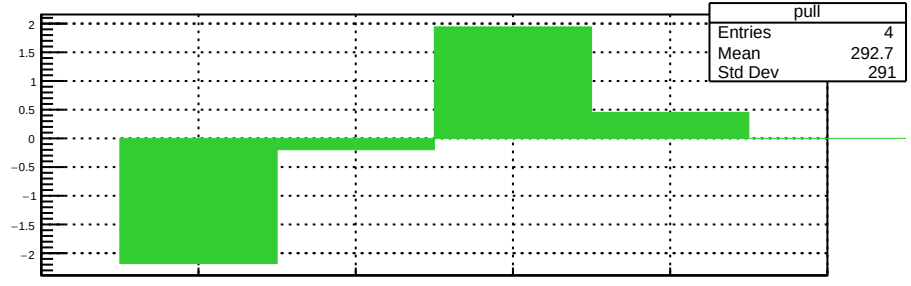

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.257 / 3
p0 −25.61 ± 21.92
60
40
20
0
−20
−40
−60
−80
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −55.41
Std Dev 57.83
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

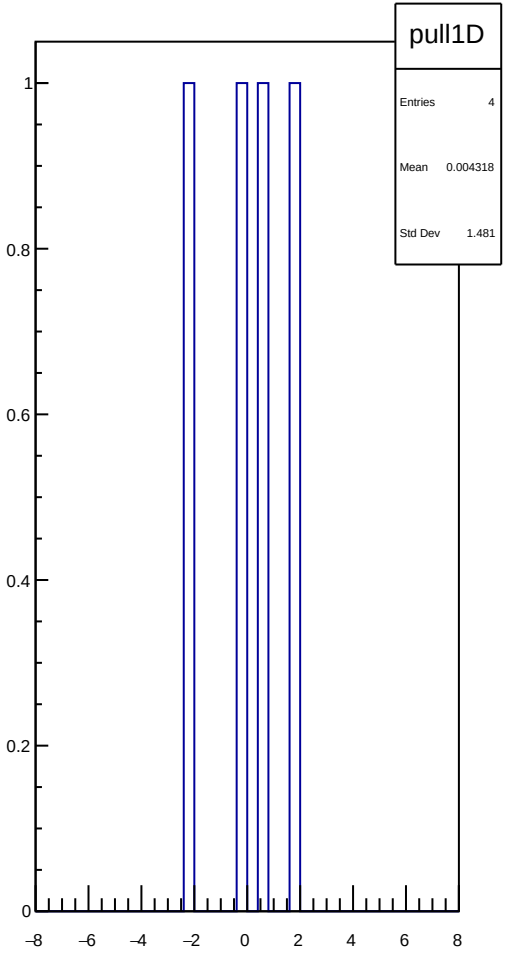

pull1D
Entries 4
Mean 0.007313
Std Dev 0.5606
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

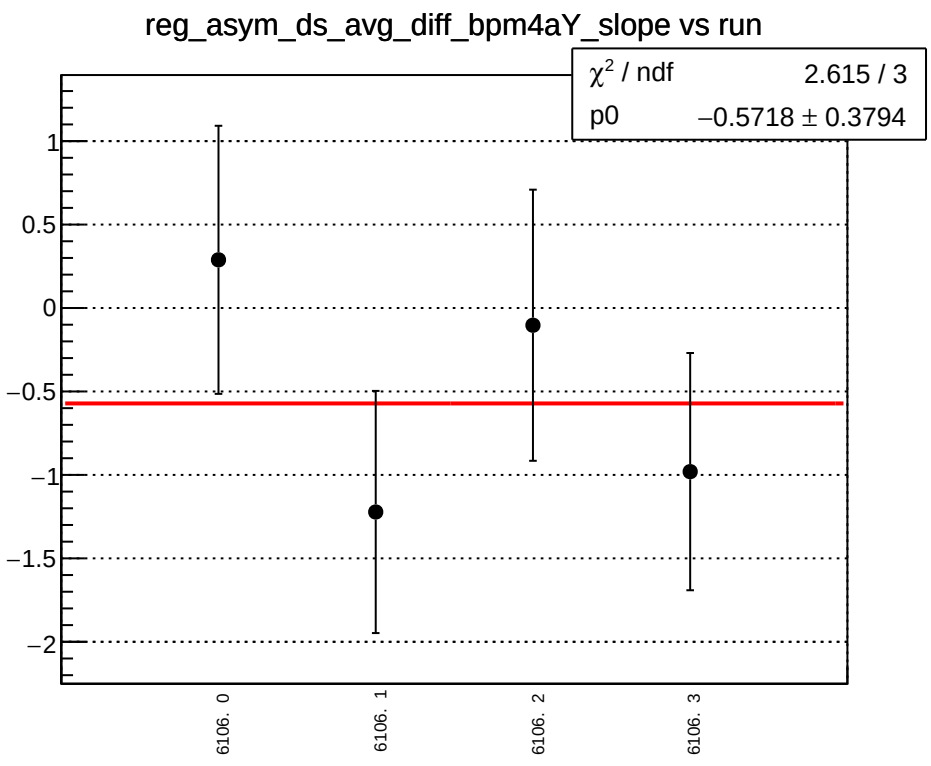

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4872 / 3
p0 14.52 ± 1.561
20
18
16
14
12
10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −53.08
Std Dev 54.89
0.4
0.2
0
−0.2
−0.4

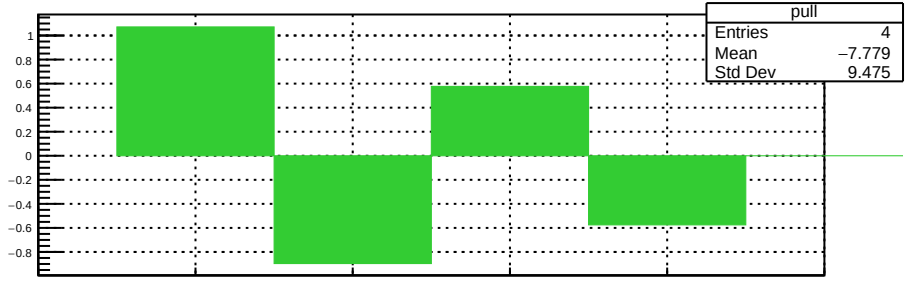

pull1D
Entries 4
Mean 0.002421
Std Dev 0.349
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

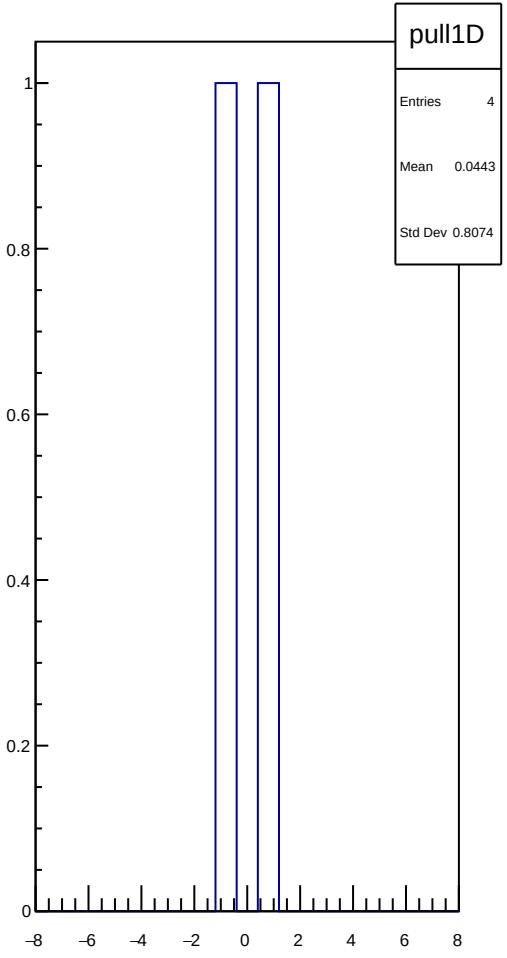

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.773 / 3
p0 0.8243 ± 0.5902
6106. 0
6106. 1
6106. 2
6106. 3

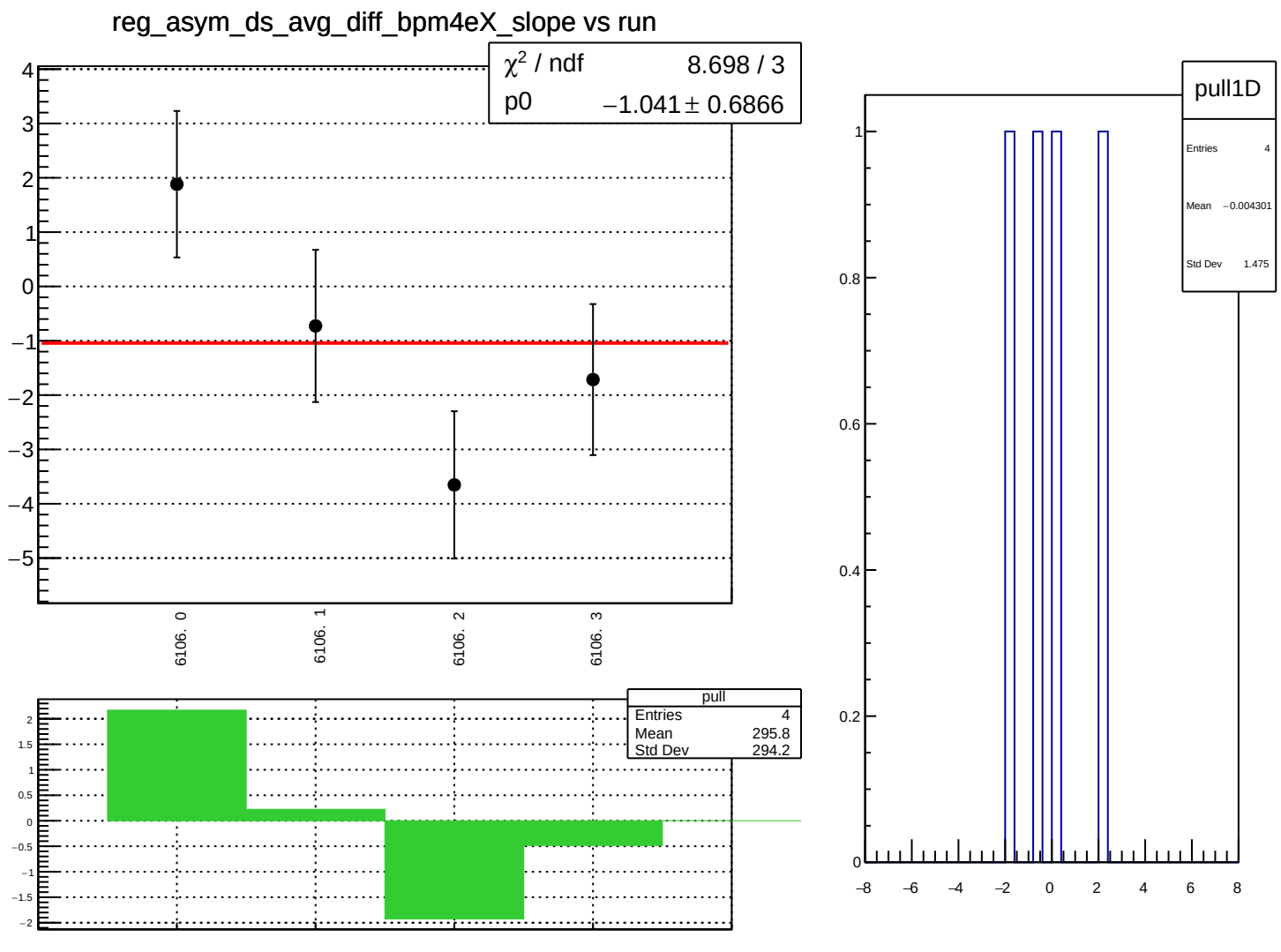

pull
Entries 4
Mean 292.7
Std Dev 291

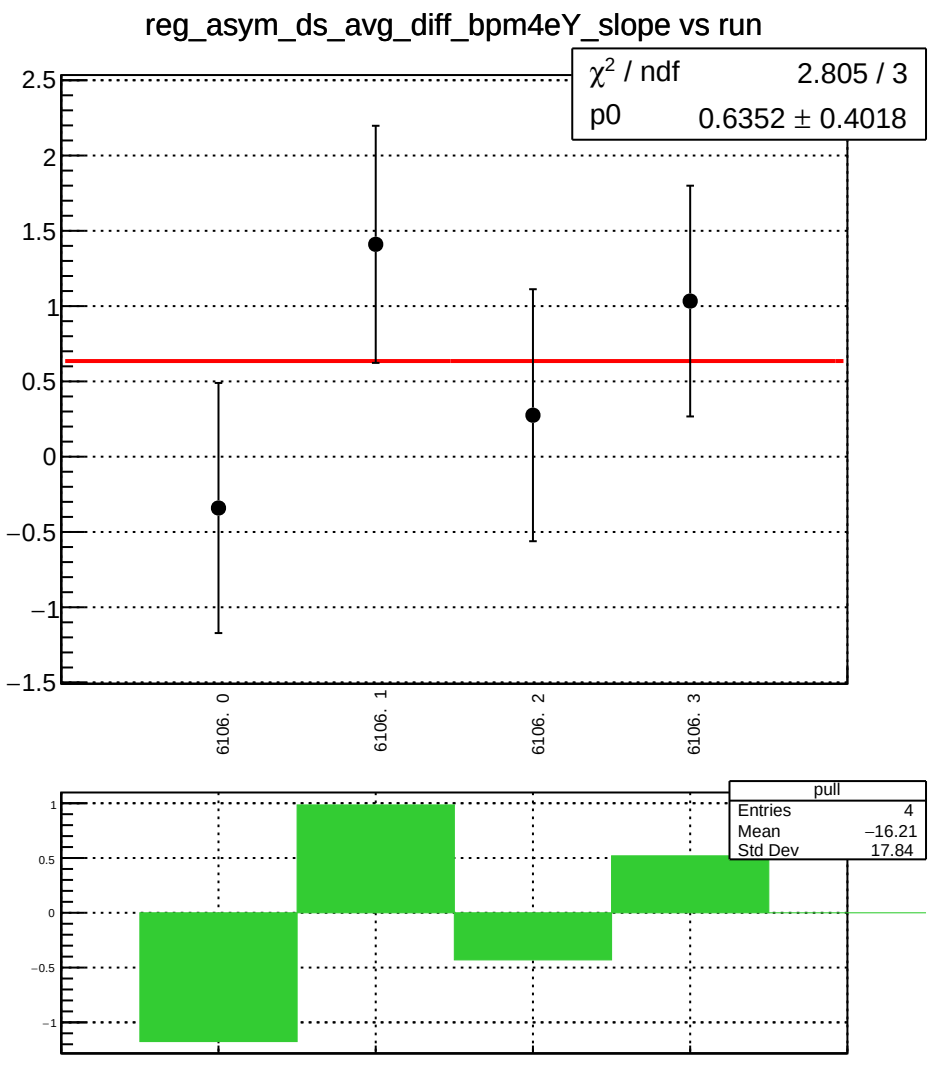

pull1D
Entries 4
Mean 0.004318
Std Dev 1.481

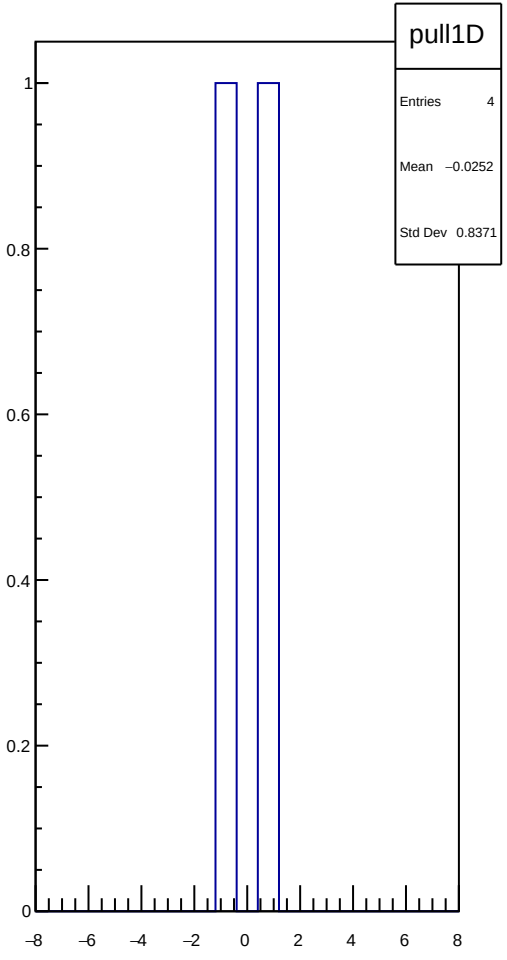

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.615 / 3
p0 −0.5718 ± 0.3794
1
0.5
0
−0.5
−1
−1.5
−2
6106. 0
6106. 1
6106. 2
6106. 3

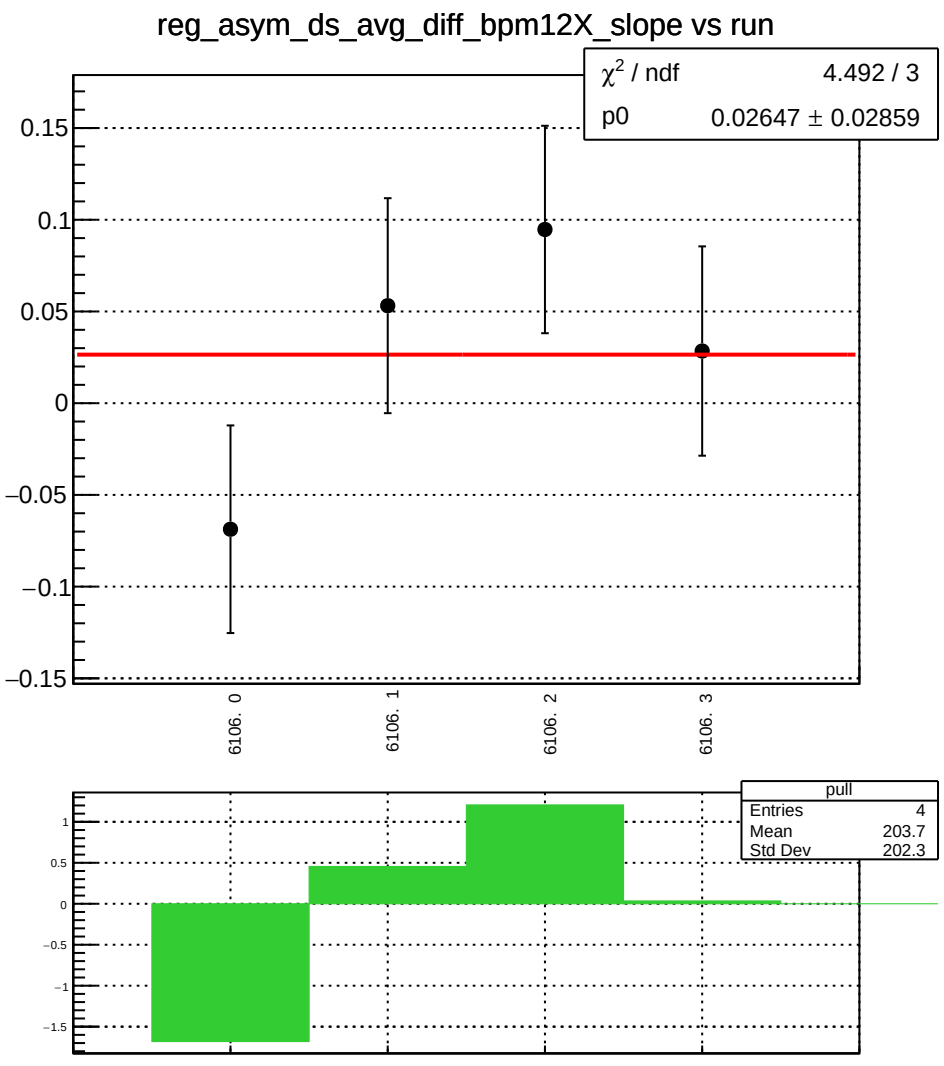

pull
Entries 4
Mean −7.779
Std Dev 9.475
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

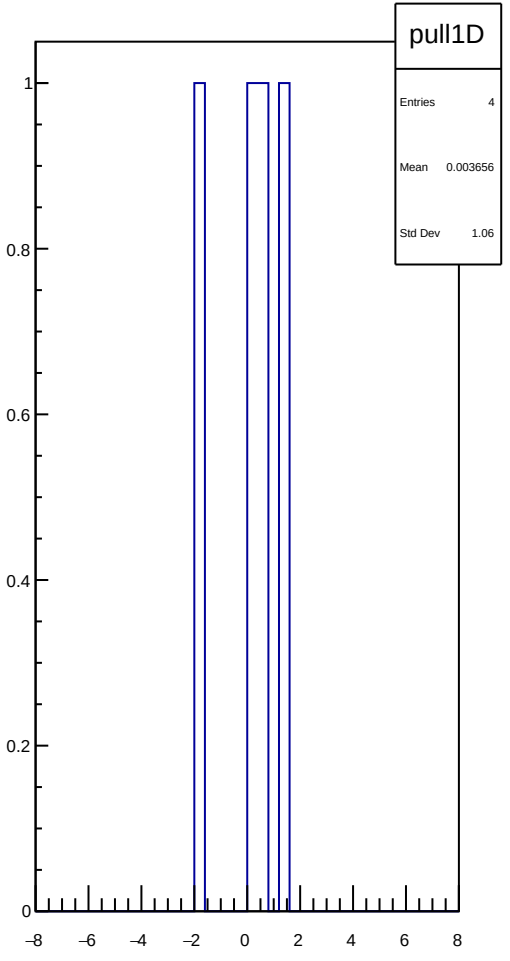

pull1D
Entries 4
Mean 0.0443
Std Dev 0.8074
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

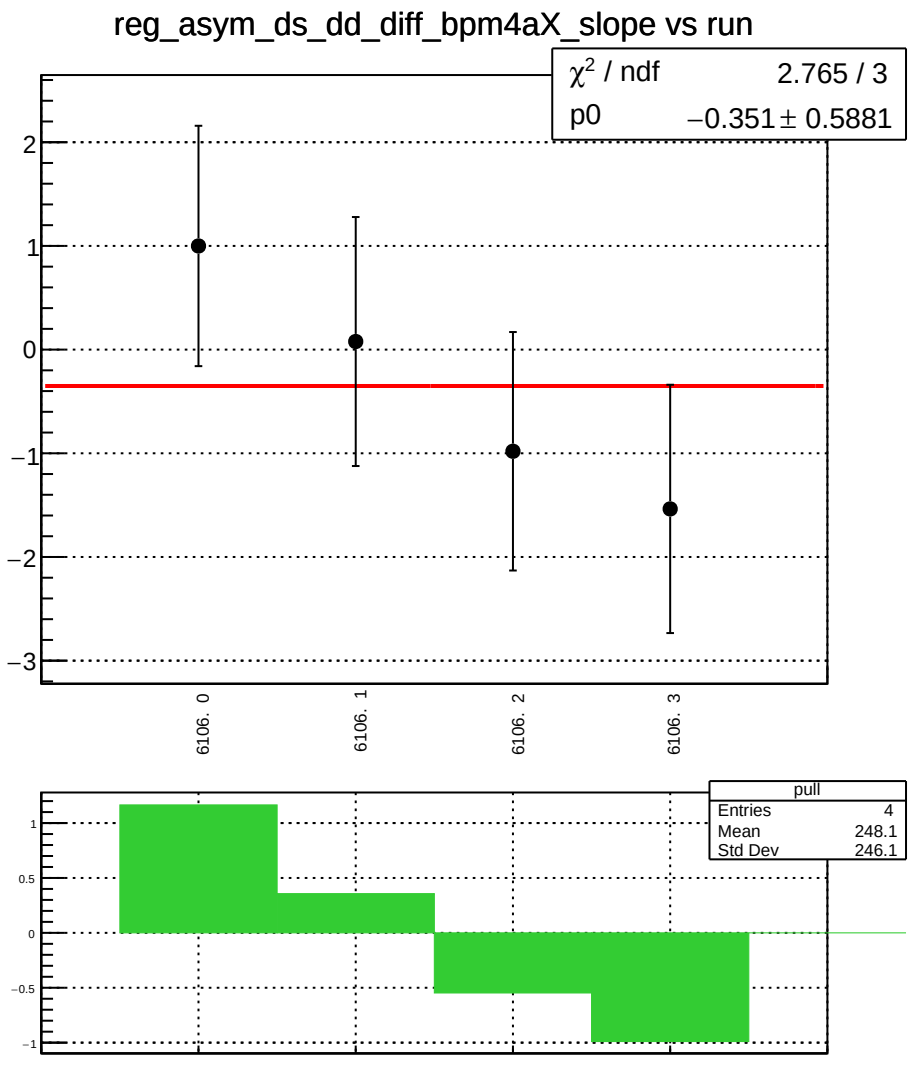

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.698 / 3
p0 −1.041 ± 0.6866
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 295.8
Std Dev 294.2
pull1D
Entries 4
Mean −0.004301
Std Dev 1.475

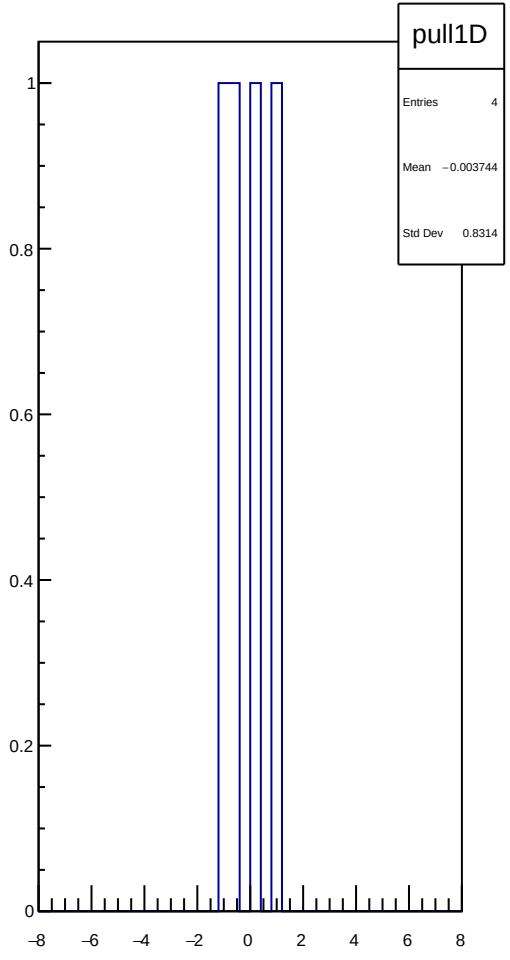

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.805 / 3
p0 0.6352 ± 0.4018
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −16.21
Std Dev 17.84
1
0.5
0
−0.5
−1

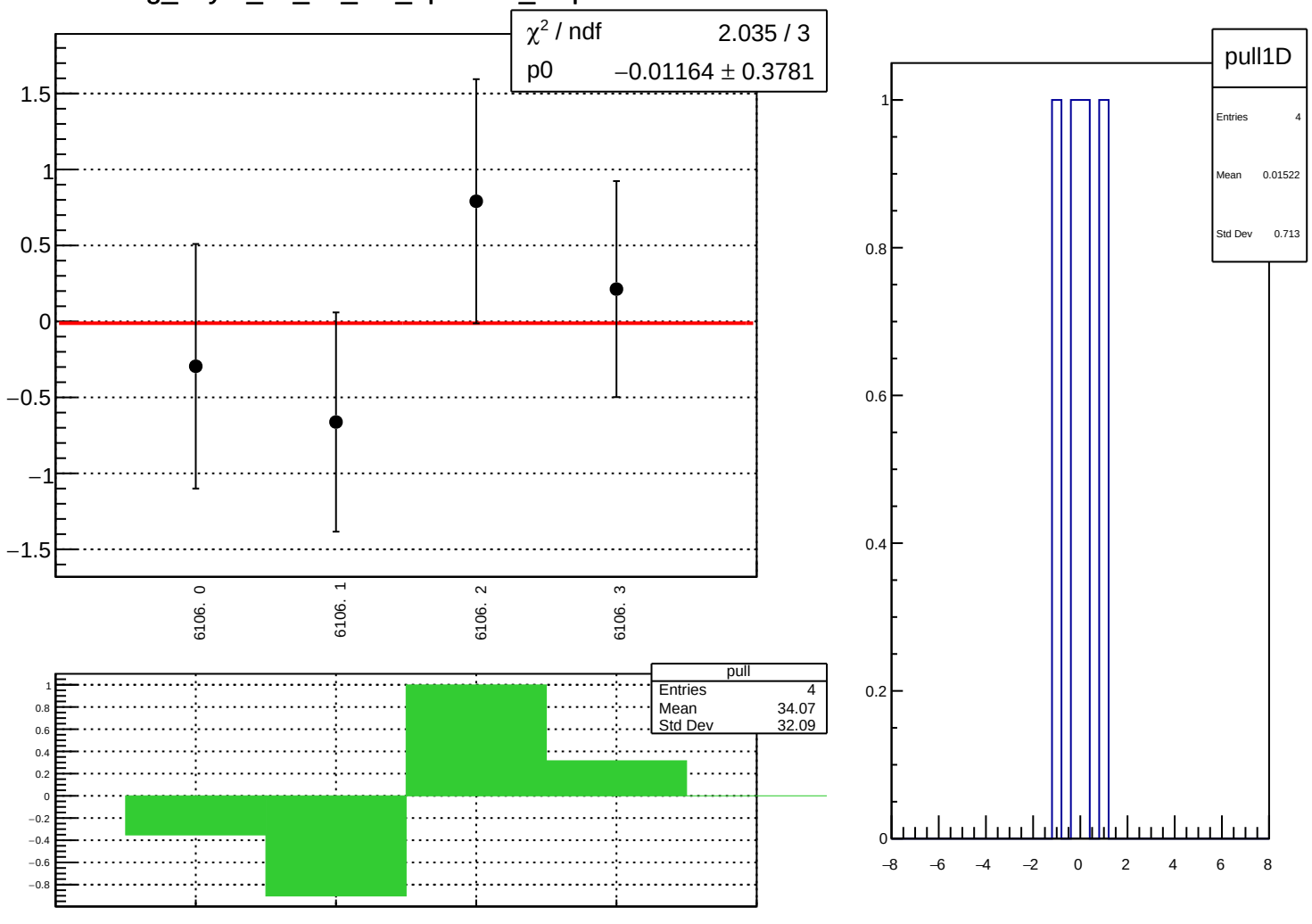

pull1D
Entries 4
Mean −0.0252
Std Dev 0.8371
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

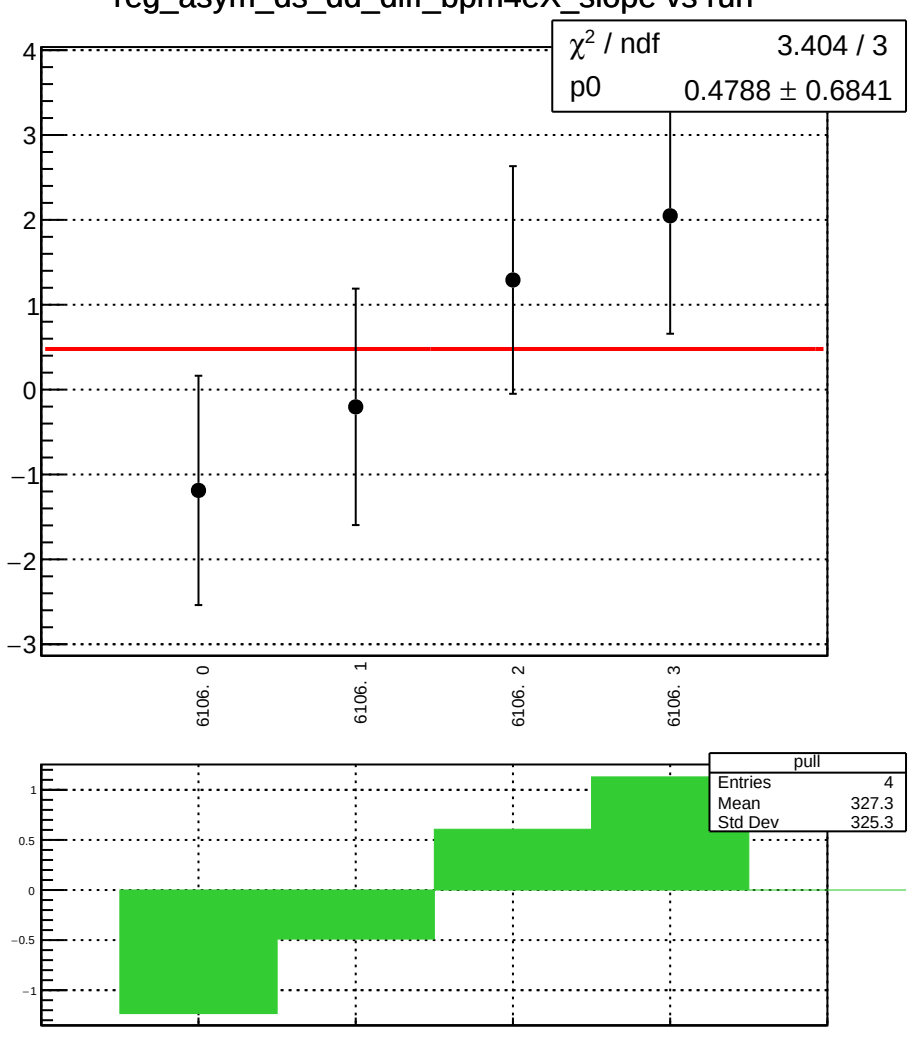

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 4.492 / 3
p0 0.02647 ± 0.02859
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 203.7
Std Dev 202.3
1
0.5
0
−0.5
−1
−1.5

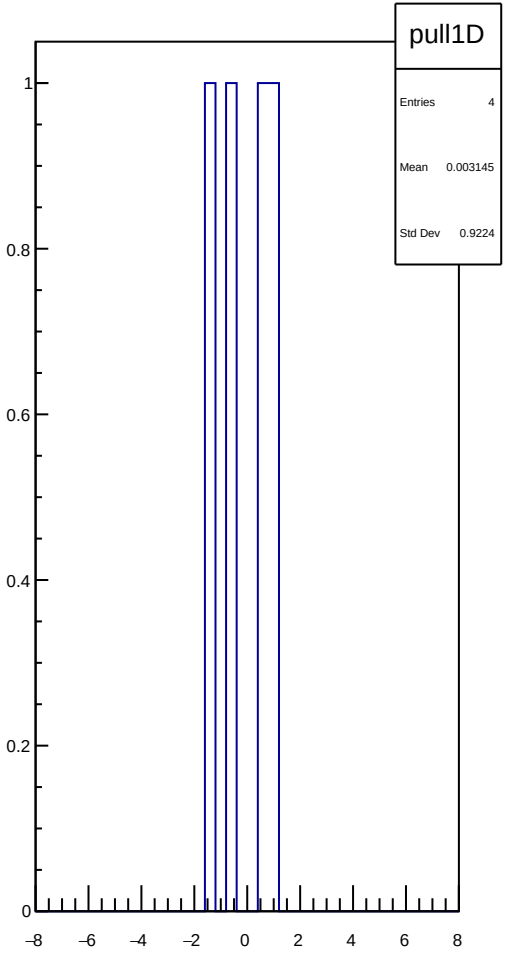

pull1D
Entries 4
Mean 0.003656
Std Dev 1.06
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

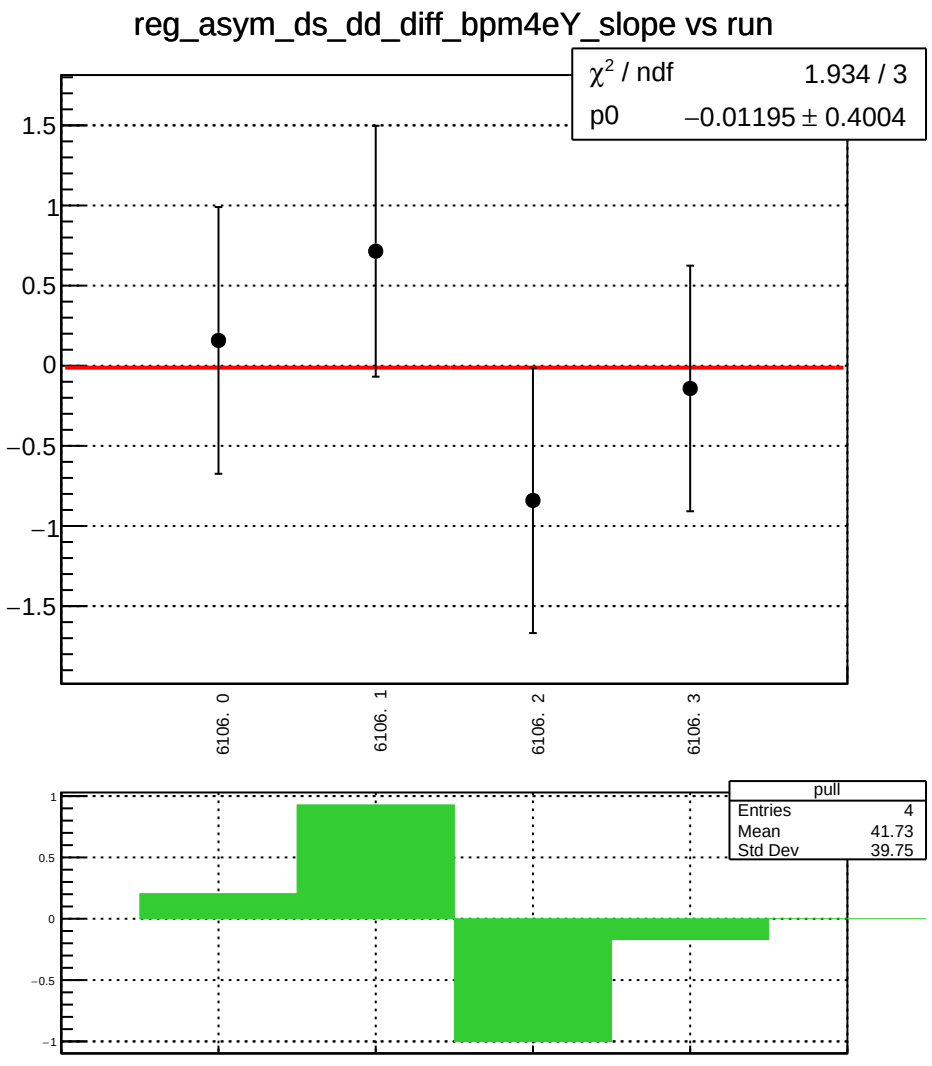

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.765 / 3
p0 −0.351 ± 0.5881
2
1
0
−1
−2
−3
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 248.1
Std Dev 246.1
1
0.5
0
−0.5
−1

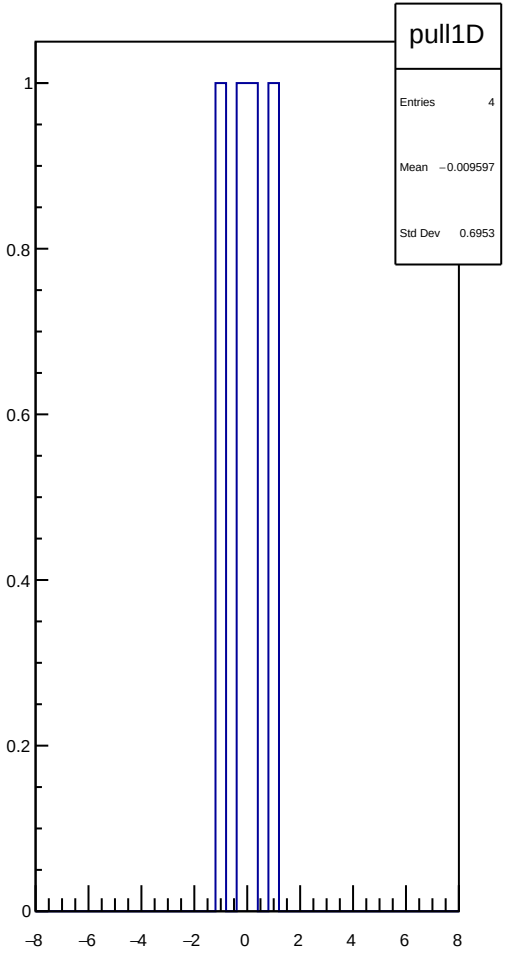

pull1D
Entries 4
Mean −0.003744
Std Dev 0.8314
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

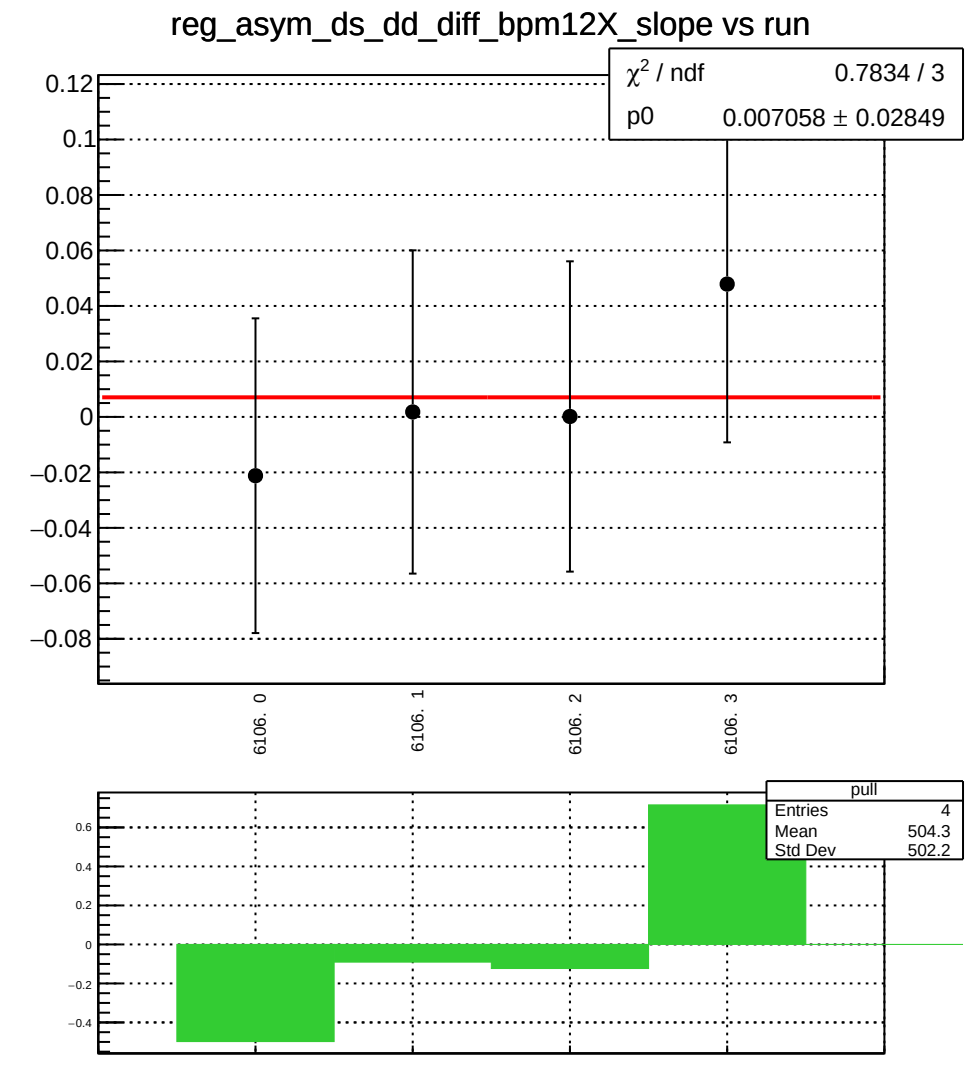

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.035 / 3
p0 −0.01164 ± 0.3781
1.5
1
0.5
0
−0.5
−1
−1.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 34.07
Std Dev 32.09
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.01522
Std Dev 0.713
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

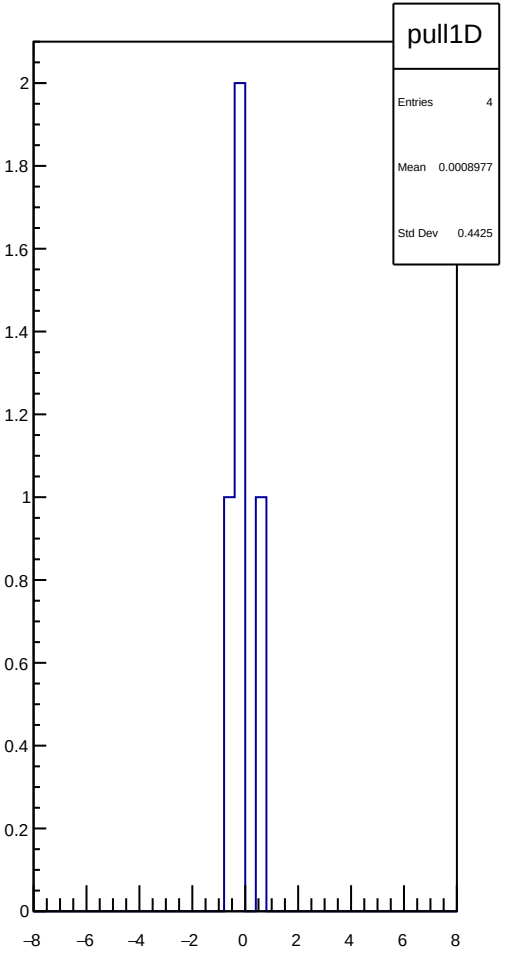

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.404 / 3
p0 0.4788 ± 0.6841
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 327.3
Std Dev 325.3

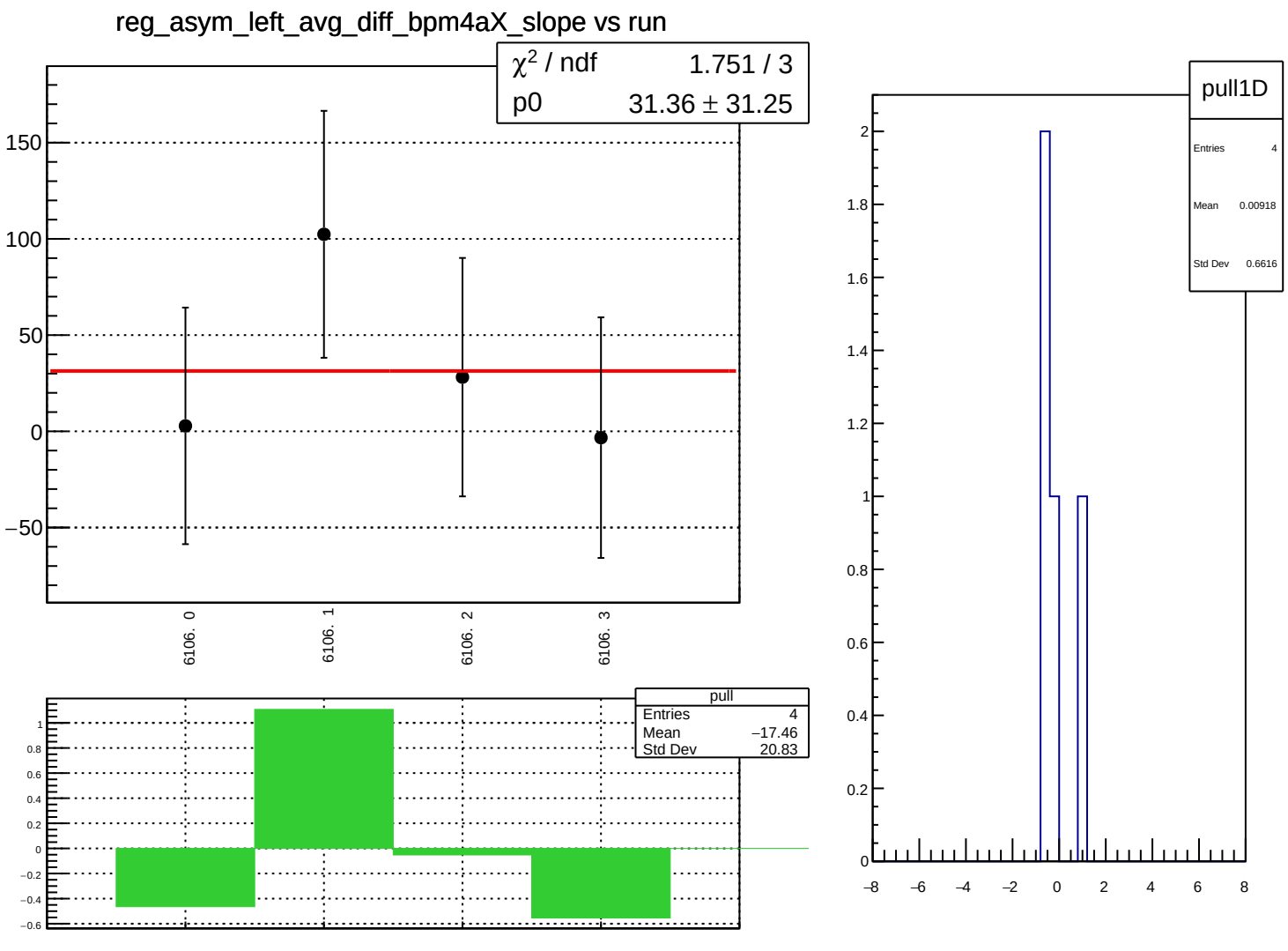

pull1D
Entries 4
Mean 0.003145
Std Dev 0.9224

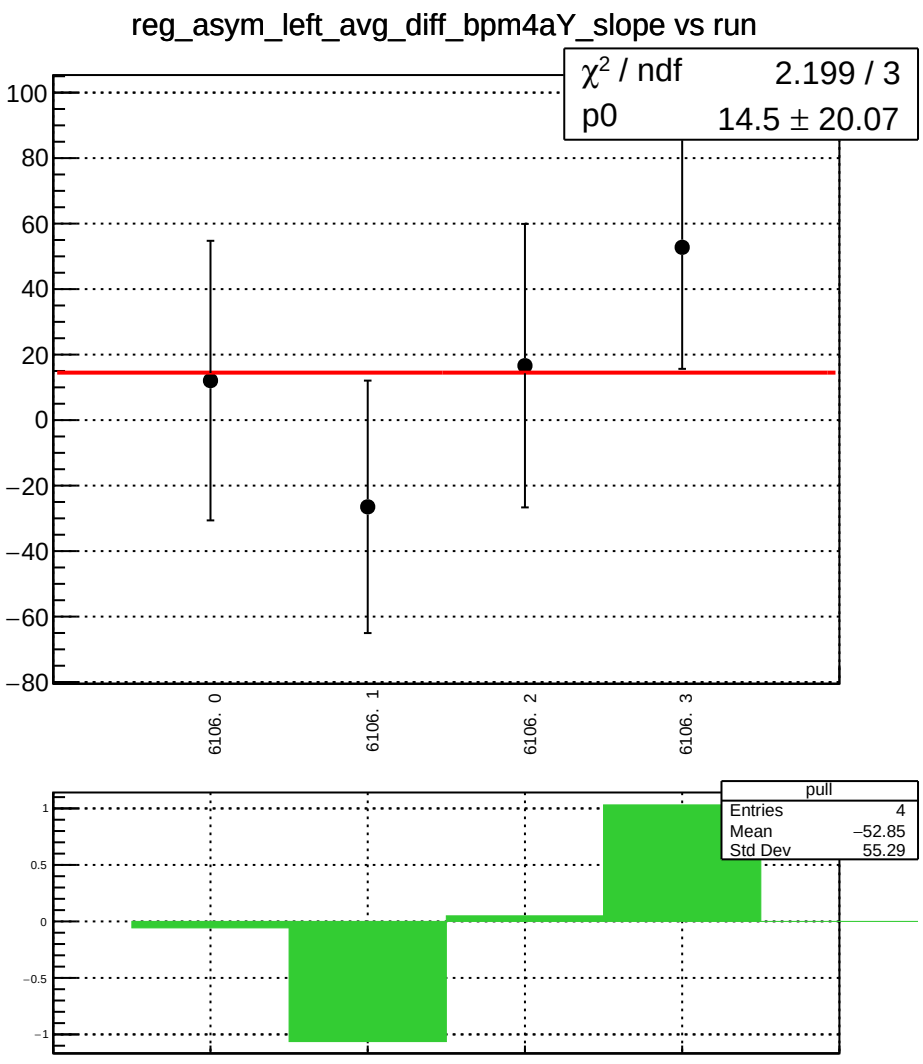

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.934 / 3
p0 −0.01195 ± 0.4004
1.5
1
0.5
0
−0.5
−1
−1.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 41.73
Std Dev 39.75
1
0.5
0
−0.5
−1

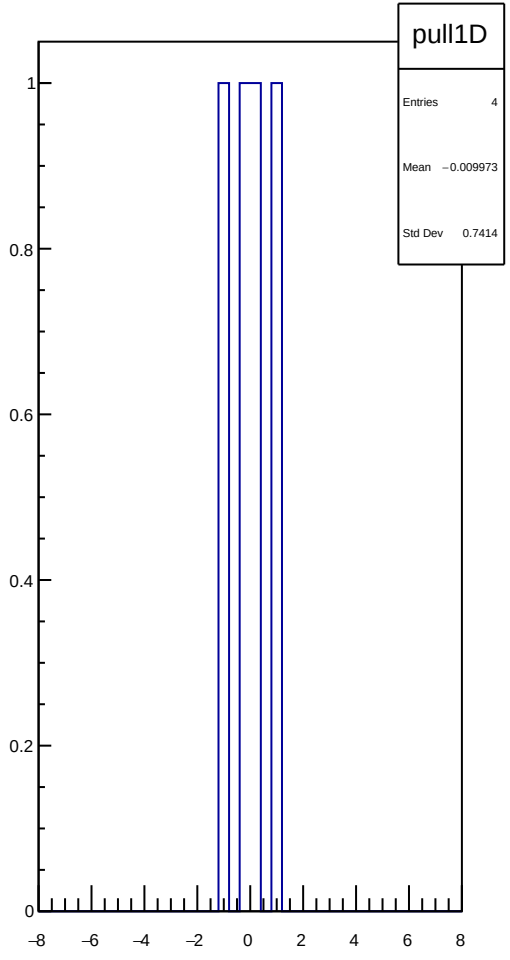

pull1D
Entries 4
Mean −0.009597
Std Dev 0.6953
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

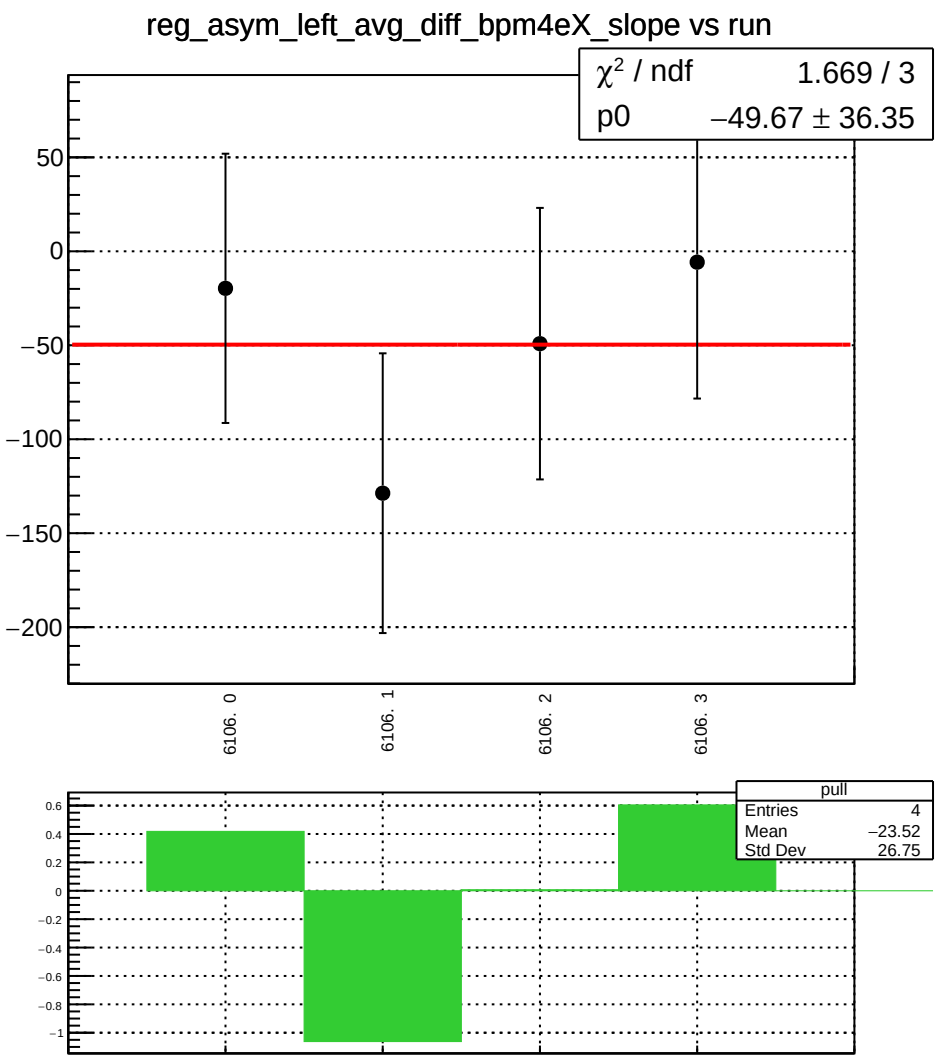

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7834 / 3
p0 0.007058 ± 0.02849
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 504.3
Std Dev 502.2
0.6
0.4
0.2
0
−0.2
−0.4

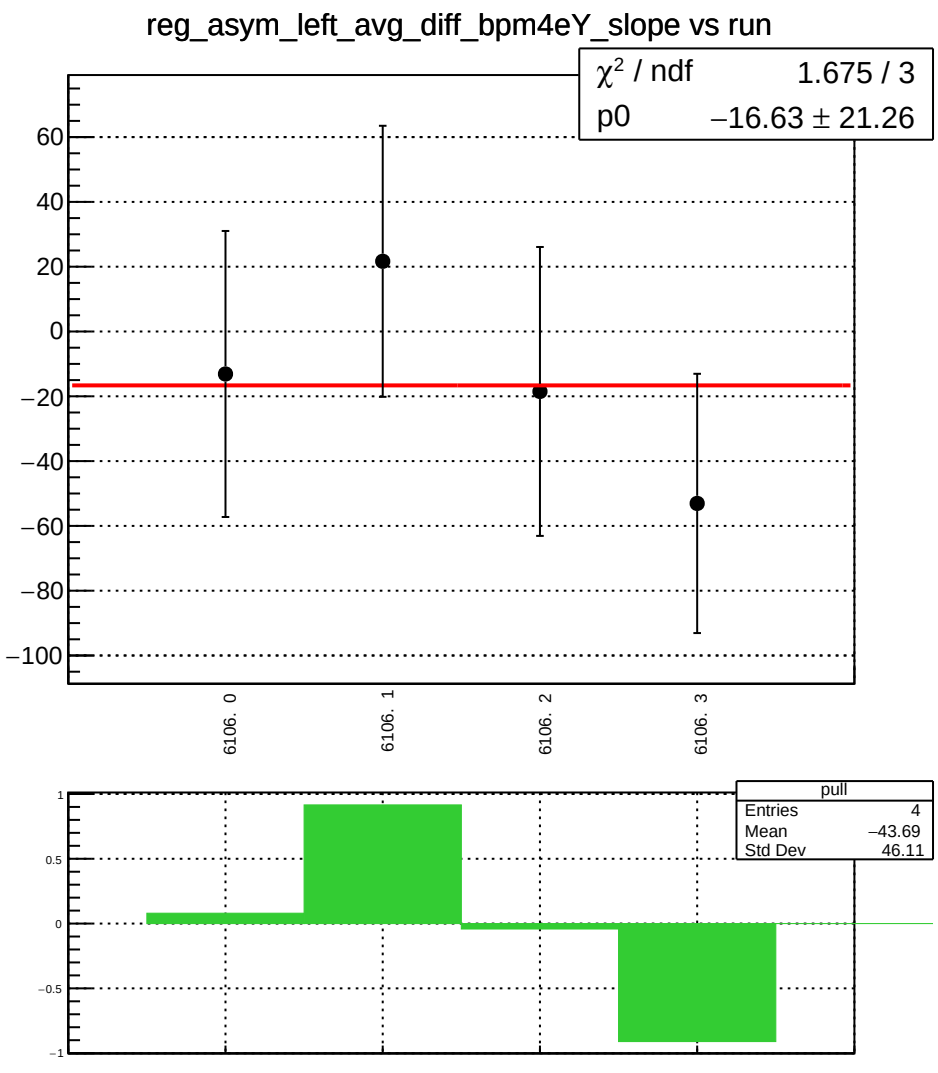

pull1D
Entries 4
Mean 0.0008977
Std Dev 0.4425
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

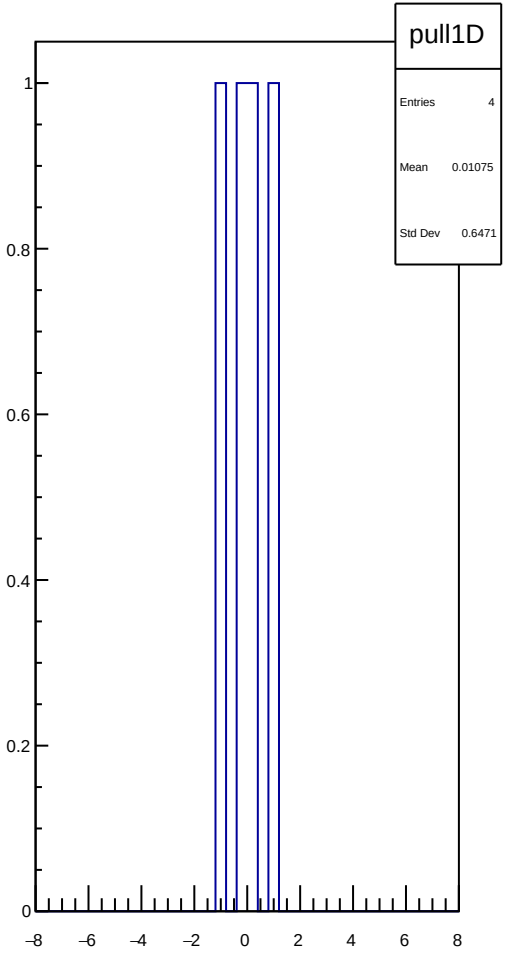

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.751 / 3
p0 31.36 ± 31.25
150
100
50
0
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.46
Std Dev 20.83
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.00918
Std Dev 0.6616
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

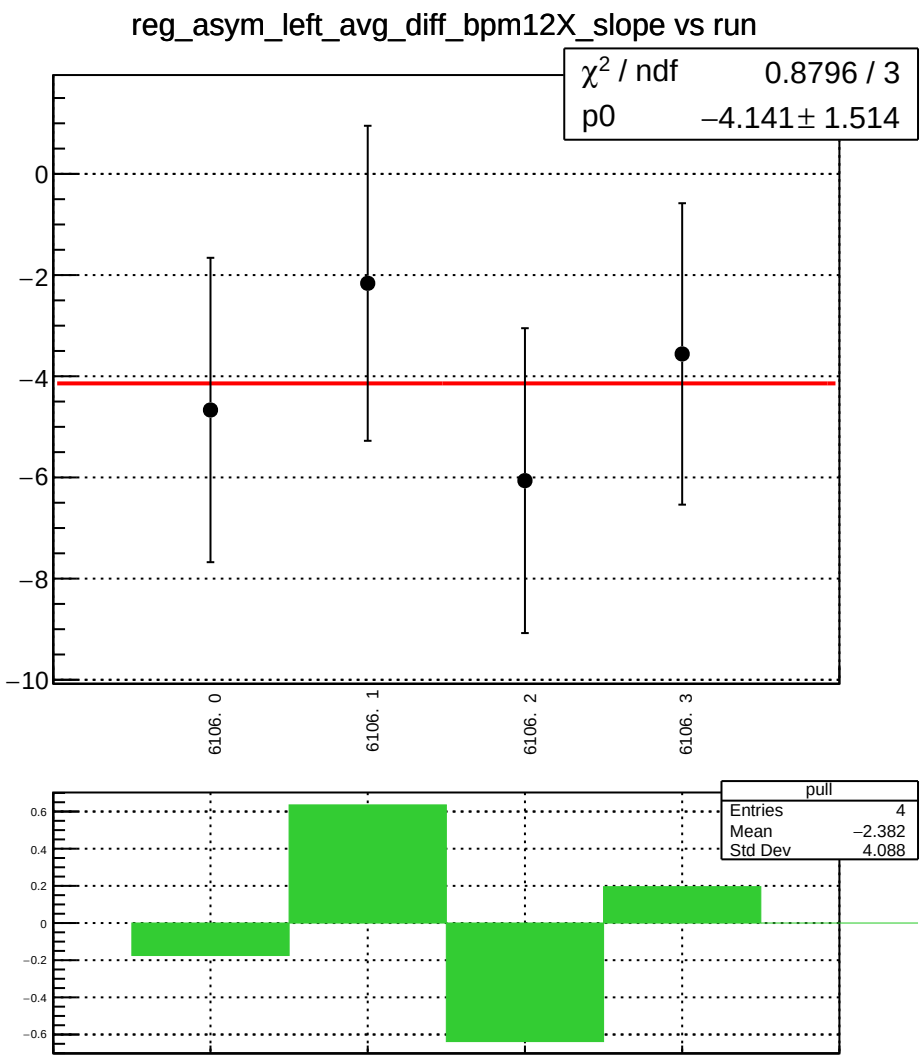

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.199 / 3
p0 14.5 ± 20.07
100
80
60
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −52.85
Std Dev 55.29
1
0.5
0
−0.5
−1

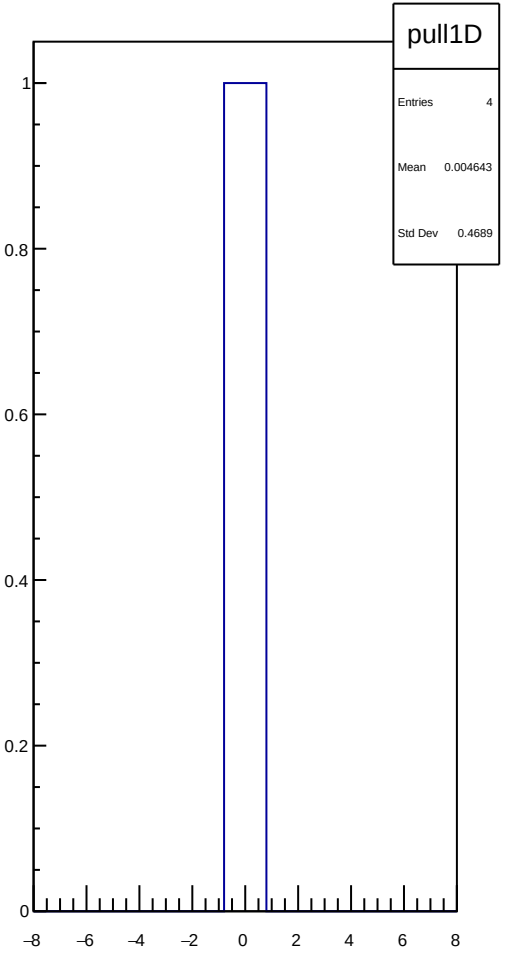

pull1D
Entries 4
Mean −0.009973
Std Dev 0.7414
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

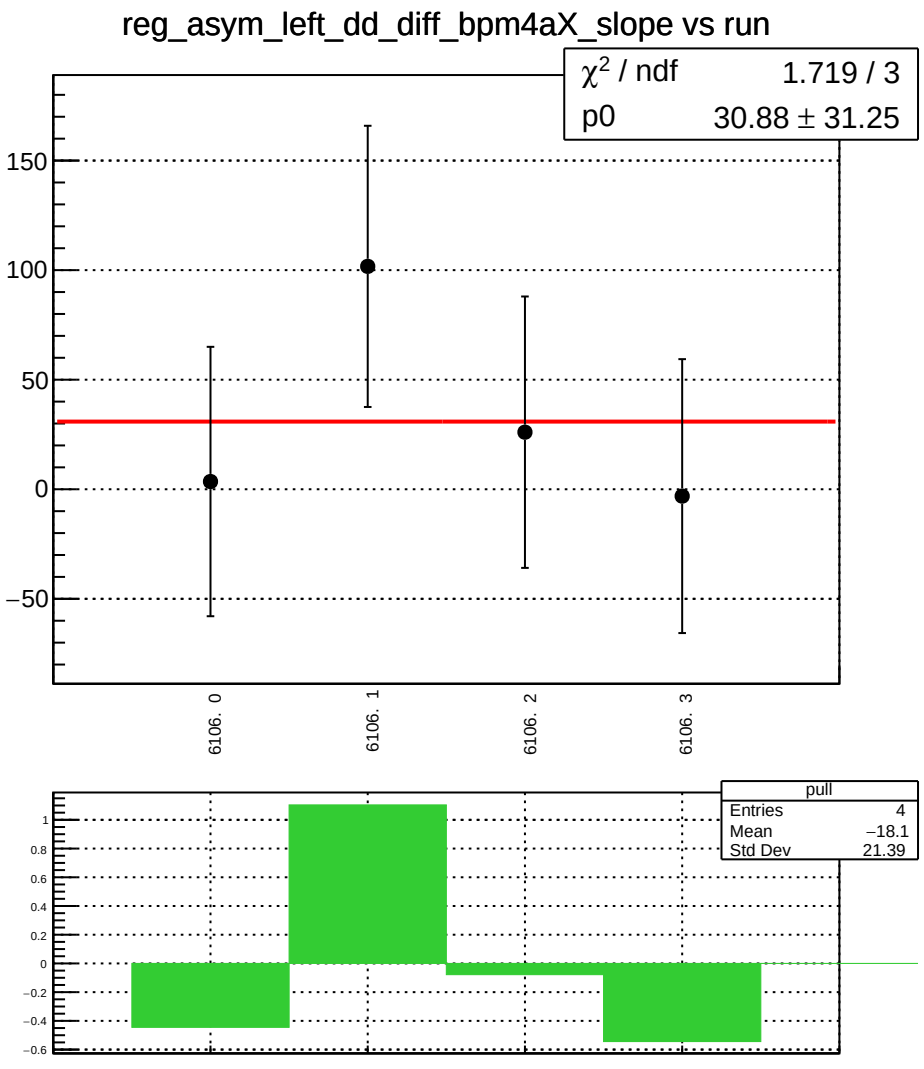

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.669 / 3
p0 −49.67 ± 36.35
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −23.52
Std Dev 26.75
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean −0.007977
Std Dev 0.6458
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

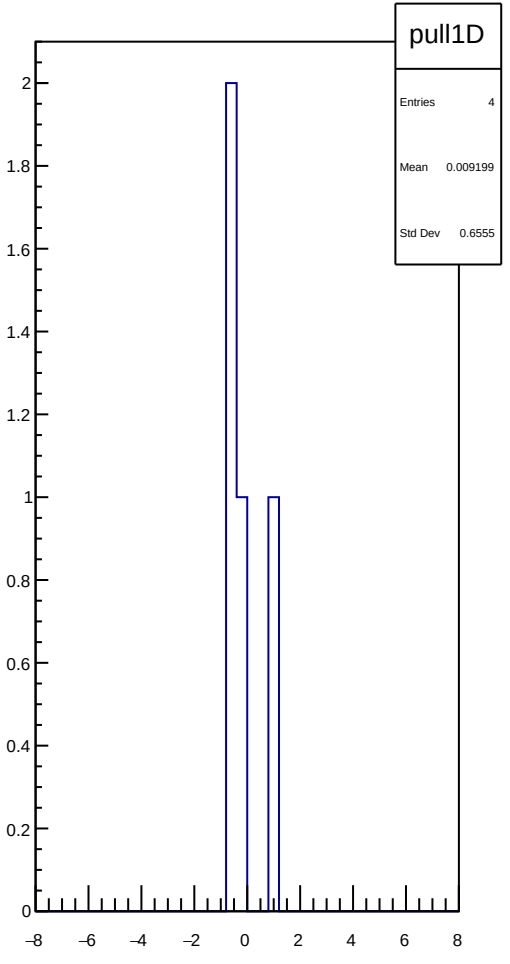

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.675 / 3
p0 −16.63 ± 21.26
60
40
20
0
−20
−40
−60
−80
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −43.69
Std Dev 46.11
1
0.5
0
−0.5
−1

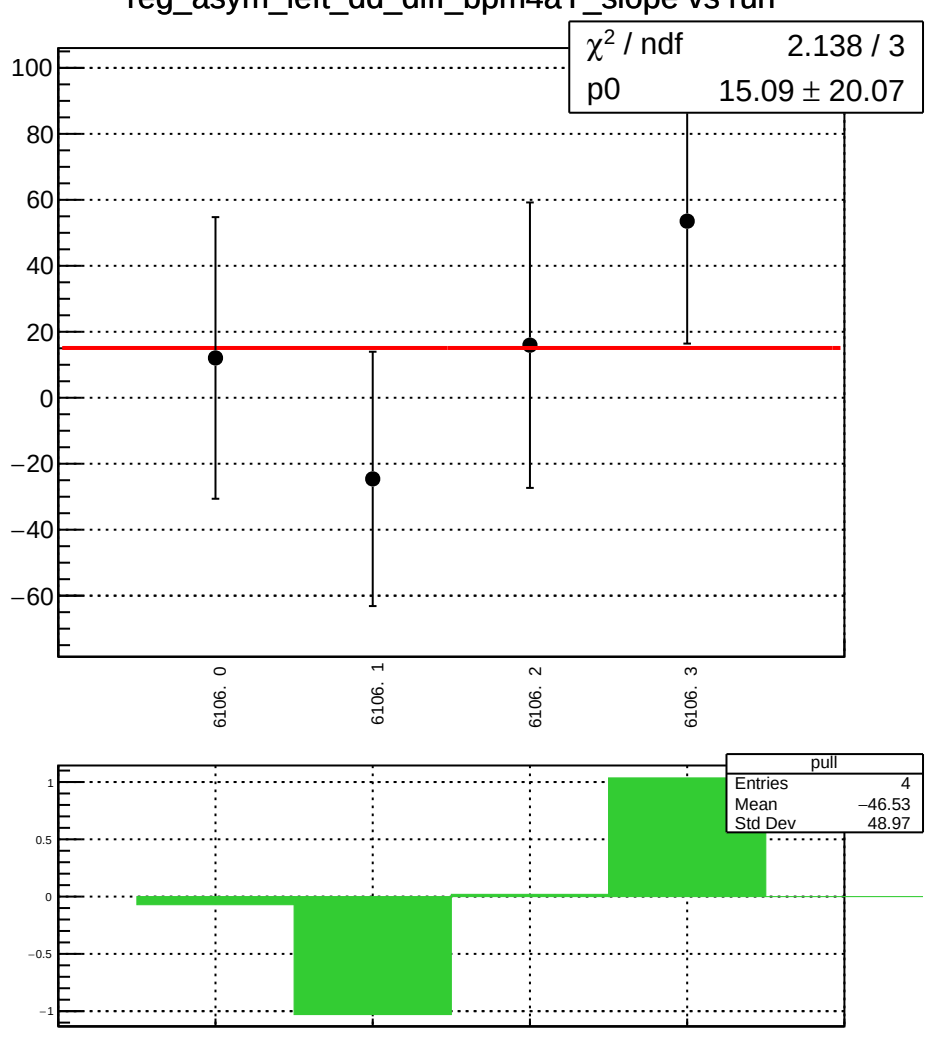

pull1D
Entries 4
Mean 0.01075
Std Dev 0.6471
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

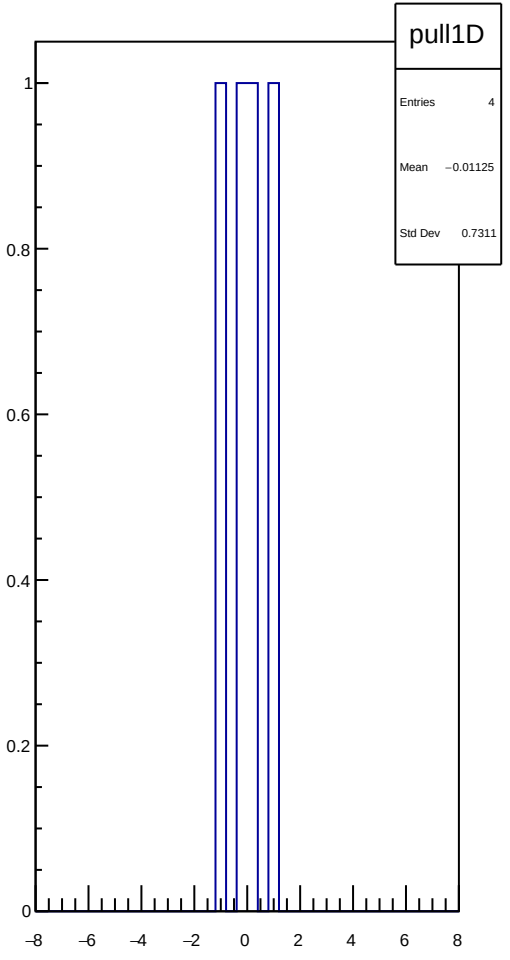

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8796 / 3
p0 −4.141 ± 1.514
0
−2
−4
−6
−8
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.382
Std Dev 4.088
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

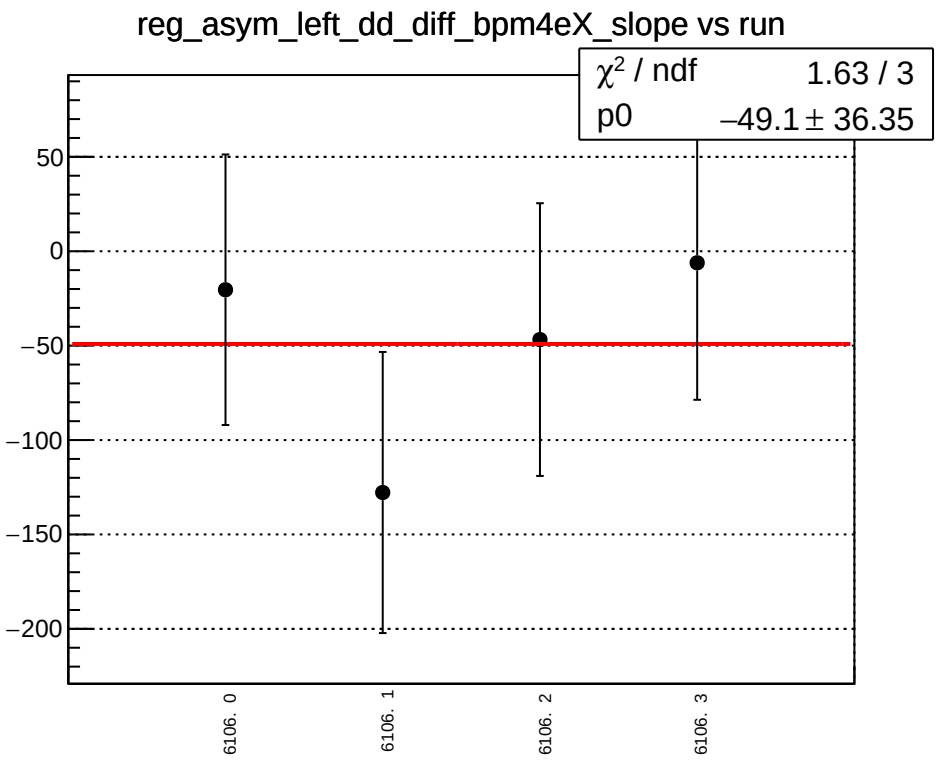

pull1D
Entries 4
Mean 0.004643
Std Dev 0.4689
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

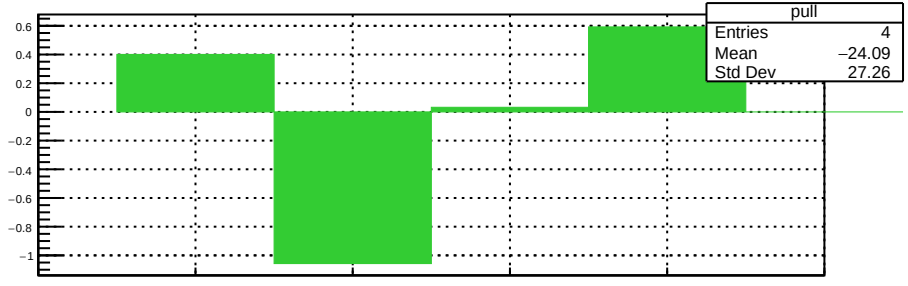

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.719 / 3
p0 30.88 ± 31.25
150
100
50
0
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −18.1
Std Dev 21.39
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

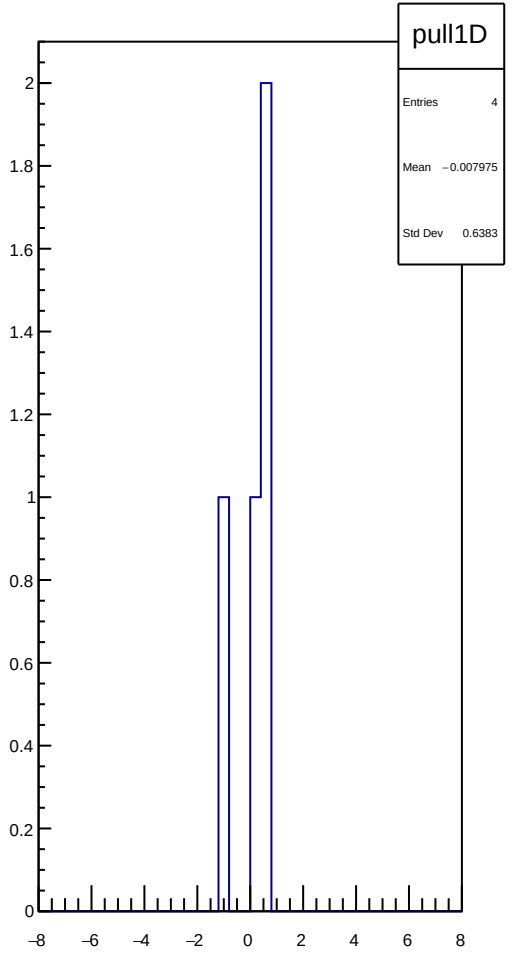

pull1D
Entries 4
Mean 0.009199
Std Dev 0.6555
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

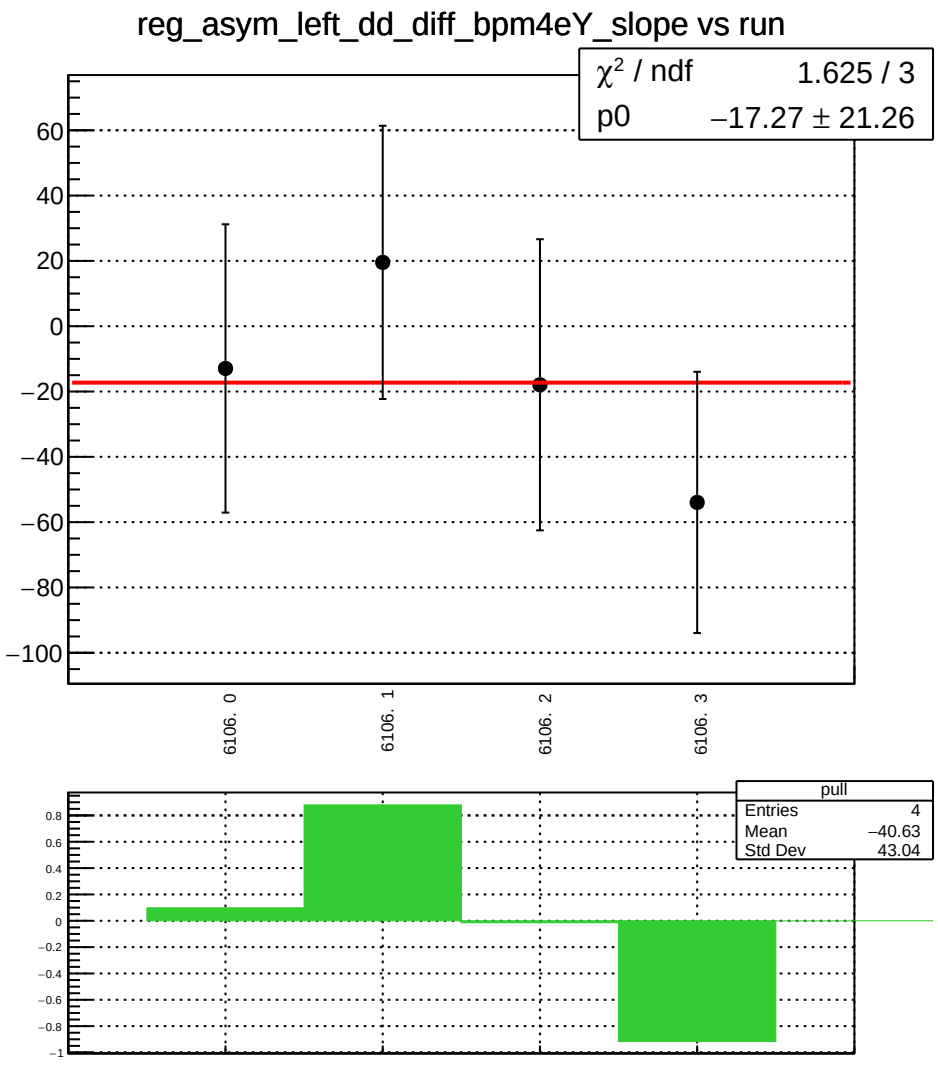

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.138 / 3
p0 15.09 ± 20.07
100
80
60
40
20
0
−20
−40
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −46.53
Std Dev 48.97
1
0.5
0
−0.5
−1

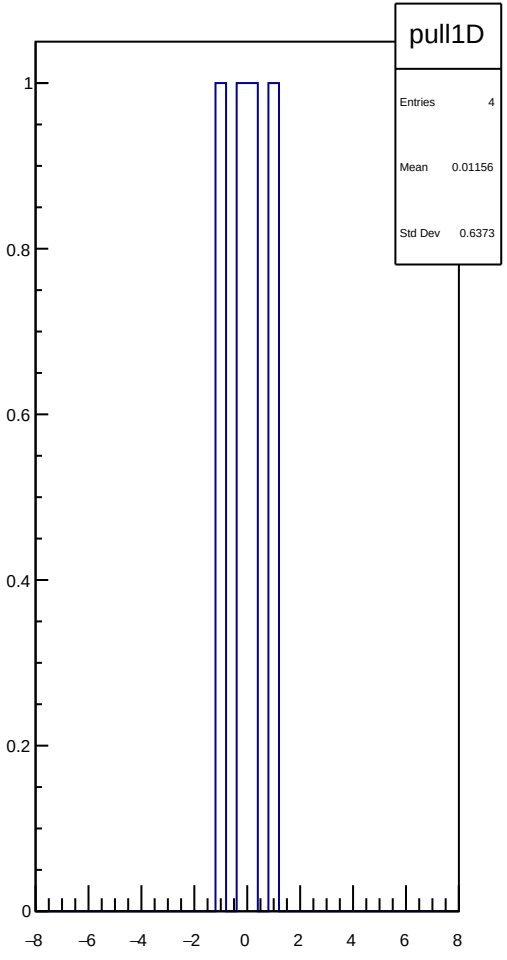

pull1D
Entries 4
Mean −0.01125
Std Dev 0.7311
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

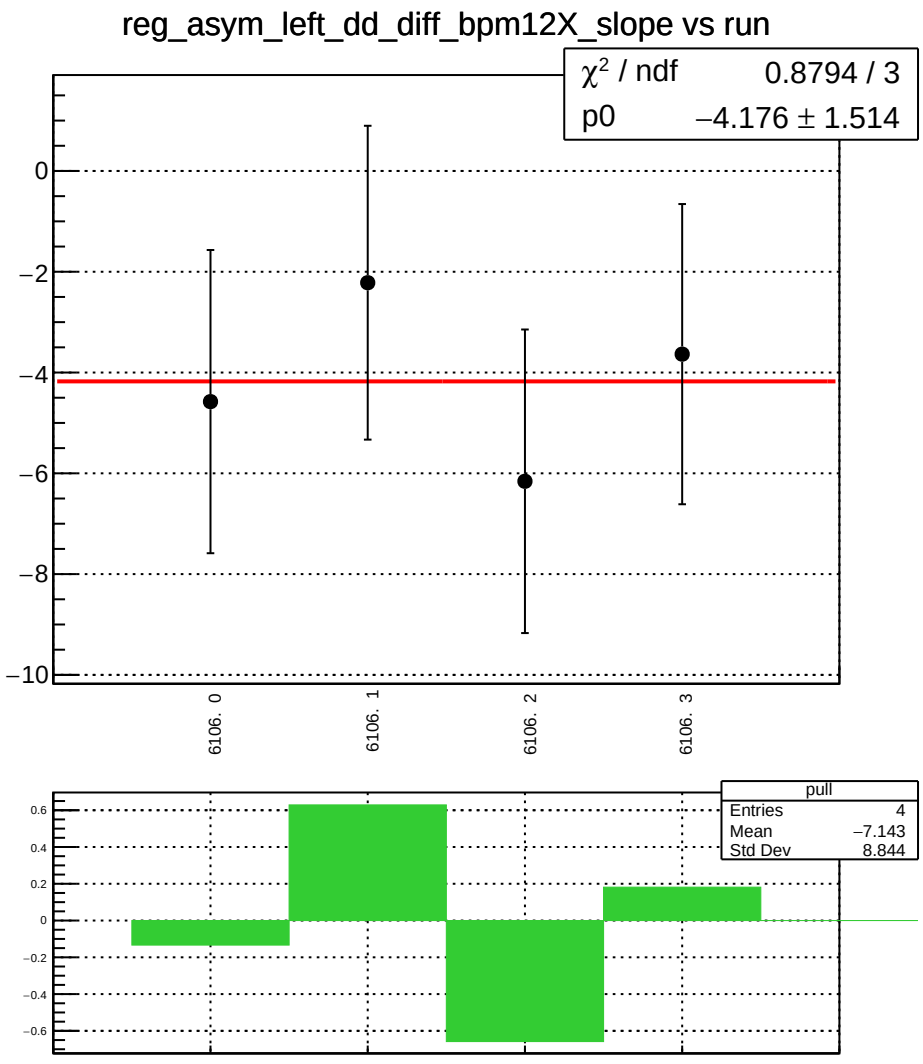

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.63 / 3
p0 −49.1 ± 36.35
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3

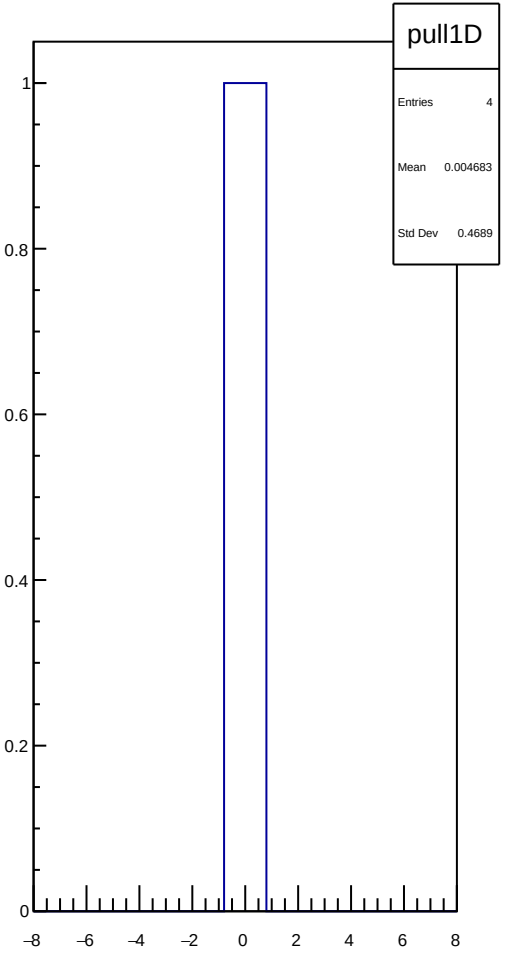

pull
Entries 4
Mean −24.09
Std Dev 27.26
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

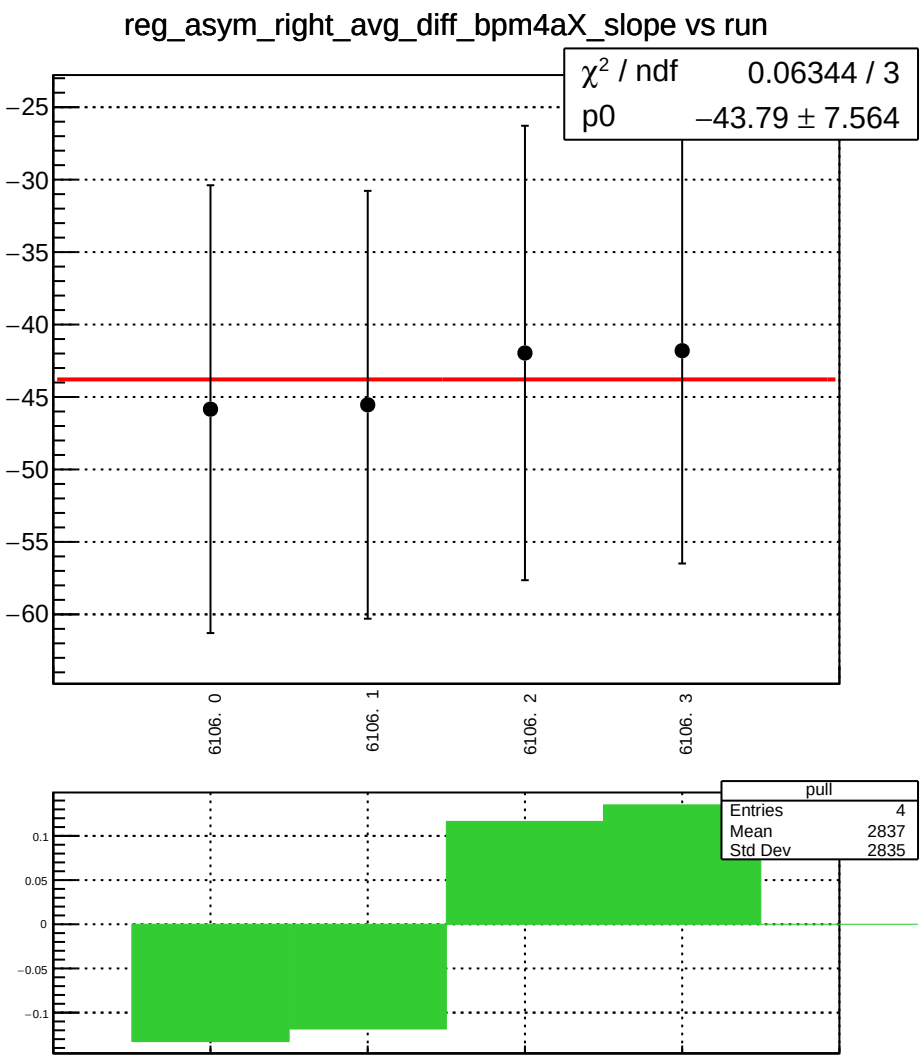

pull1D
Entries 4
Mean −0.007975
Std Dev 0.6383
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

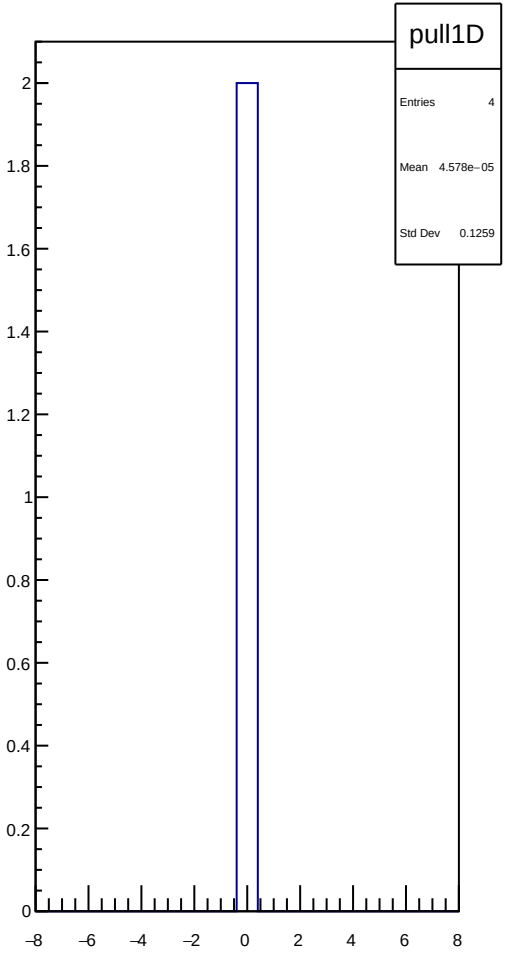

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.625 / 3
p0 −17.27 ± 21.26
60
40
20
0
−20
−40
−60
−80
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −40.63
Std Dev 43.04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

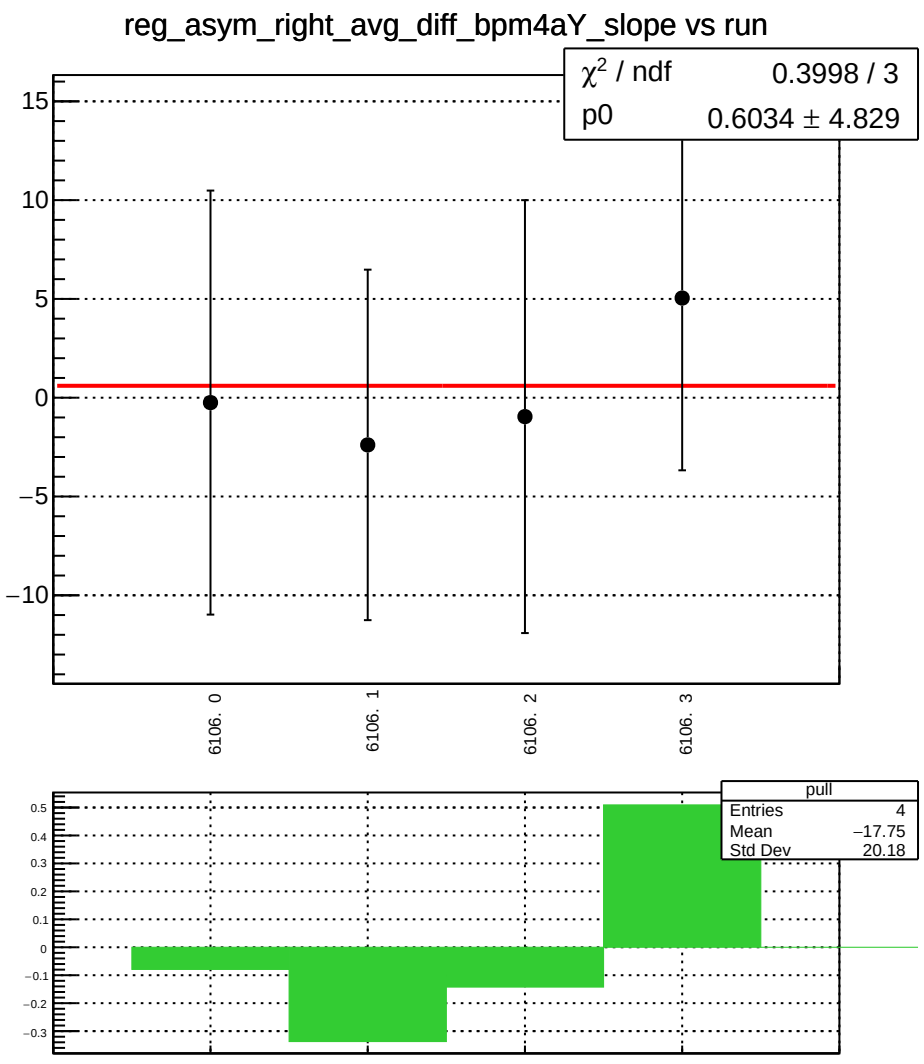

pull1D
Entries 4
Mean 0.01156
Std Dev 0.6373
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

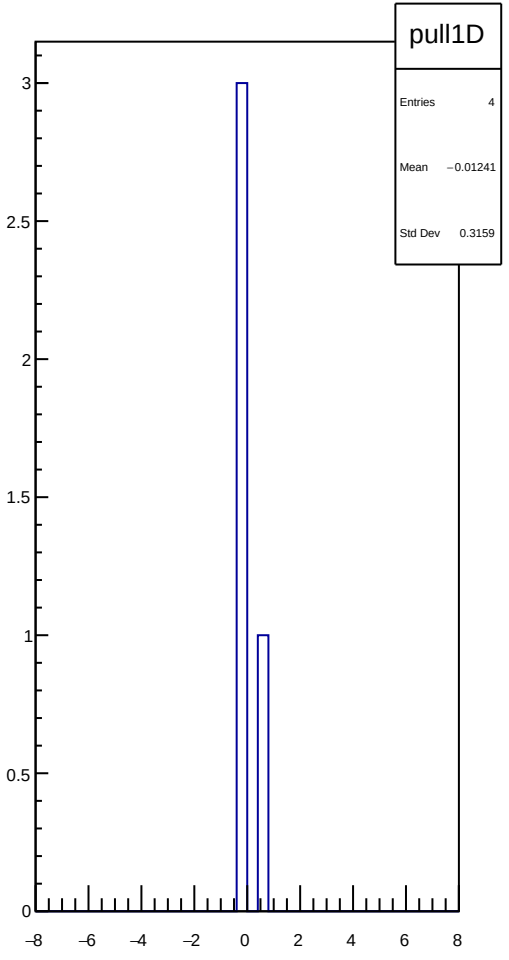

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8794 / 3
p0 −4.176 ± 1.514
0
−2
−4
−6
−8
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −7.143
Std Dev 8.844
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

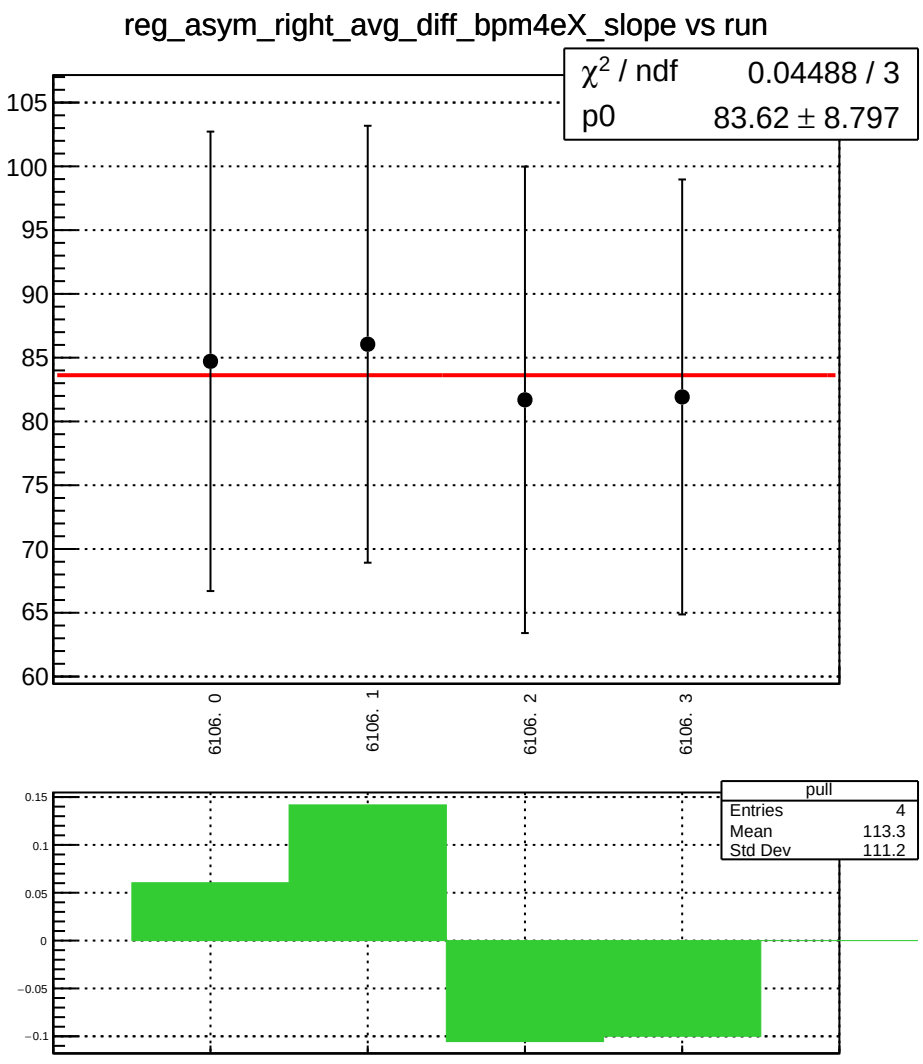

pull1D
Entries 4
Mean 0.004683
Std Dev 0.4689
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

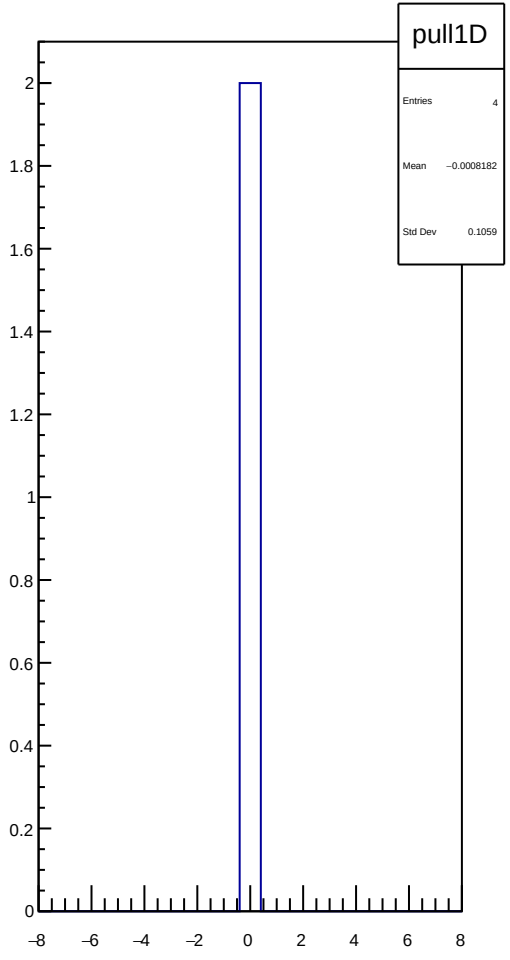

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.06344 / 3
p0 −43.79 ± 7.564
−25
−30
−35
−40
−45
−50
−55
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 2837
Std Dev 2835
0.1
0.05
0
−0.05
−0.1

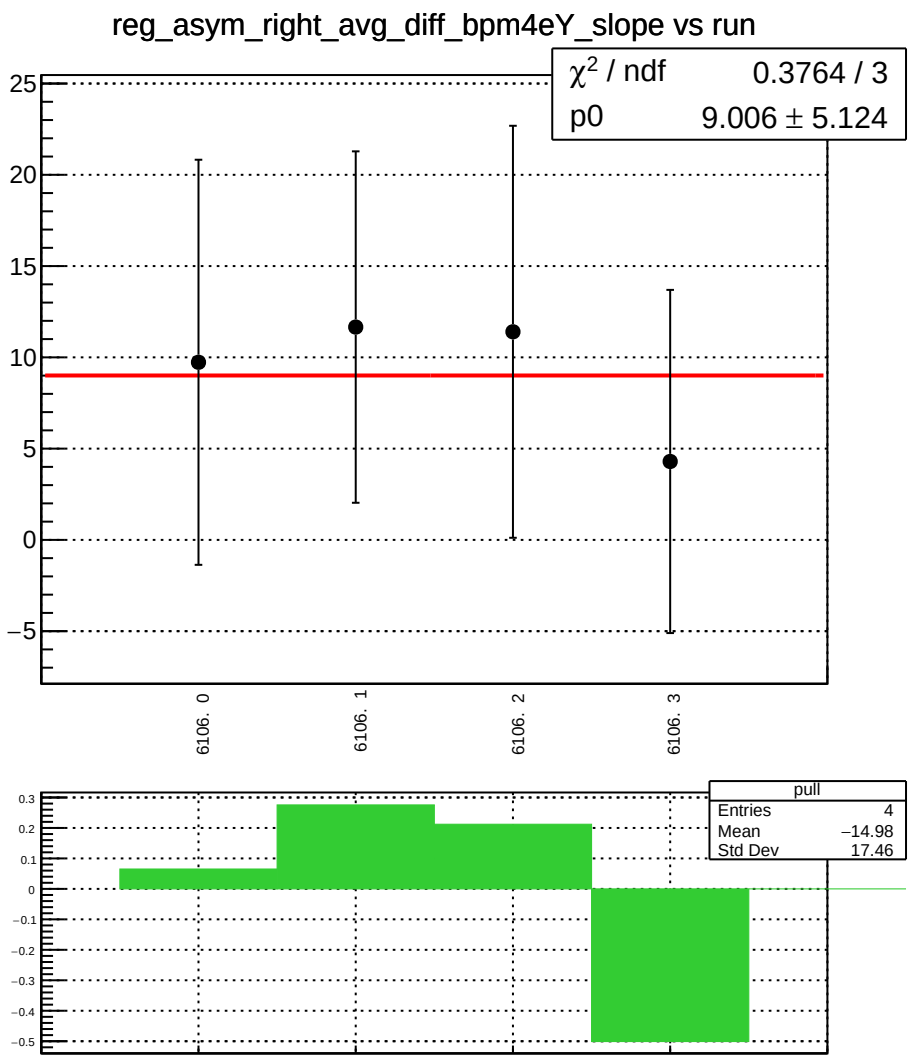

pull1D
Entries 4
Mean 4.578e−05
Std Dev 0.1259
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

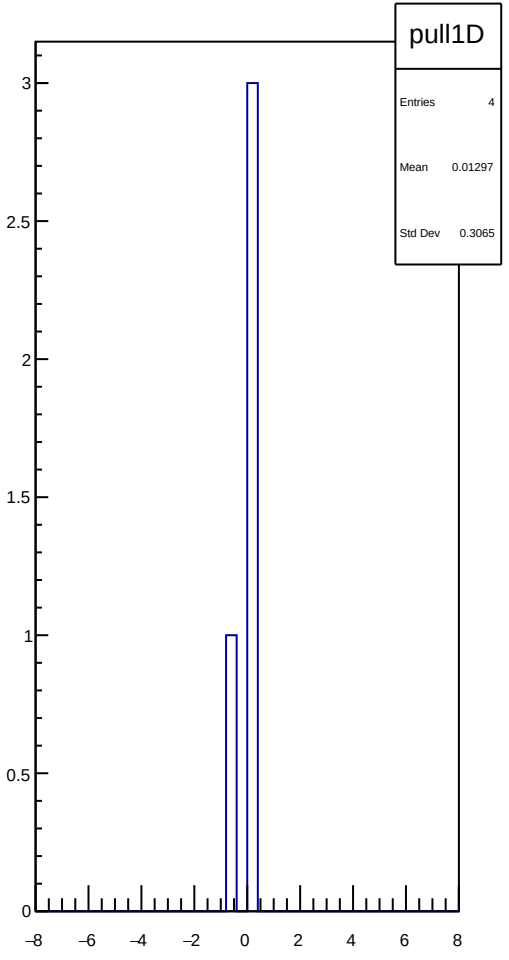

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3998 / 3
p0 0.6034 ± 4.829
15
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.75
Std Dev 20.18
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

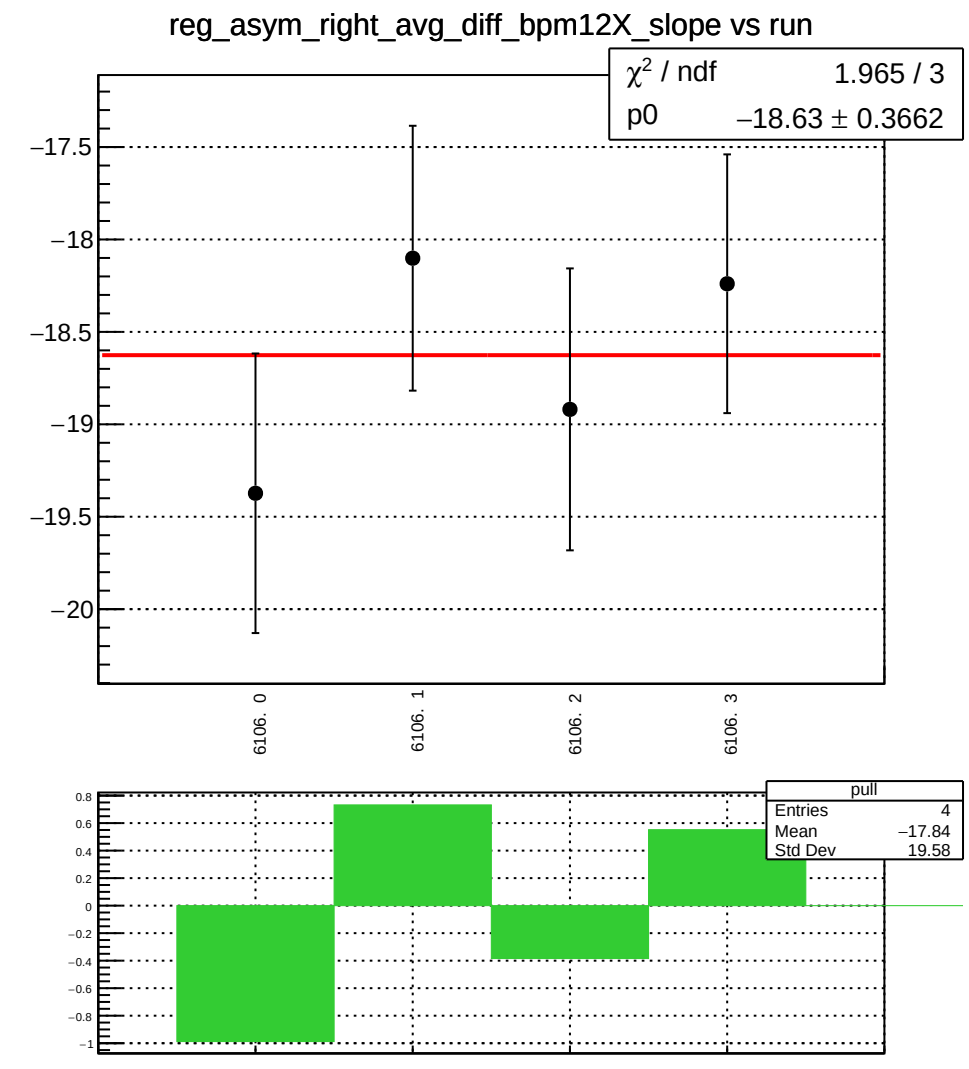

pull1D
Entries 4
Mean −0.01241
Std Dev 0.3159
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

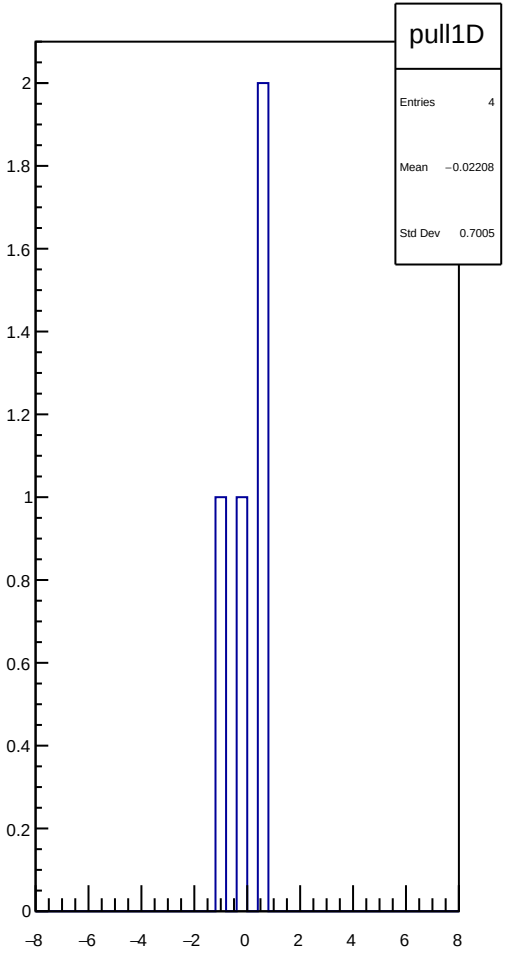

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.04488 / 3
p0 83.62 ± 8.797
105
100
95
90
85
80
75
70
65
60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 113.3
Std Dev 111.2
0.15
0.1
0.05
0
−0.05
−0.1

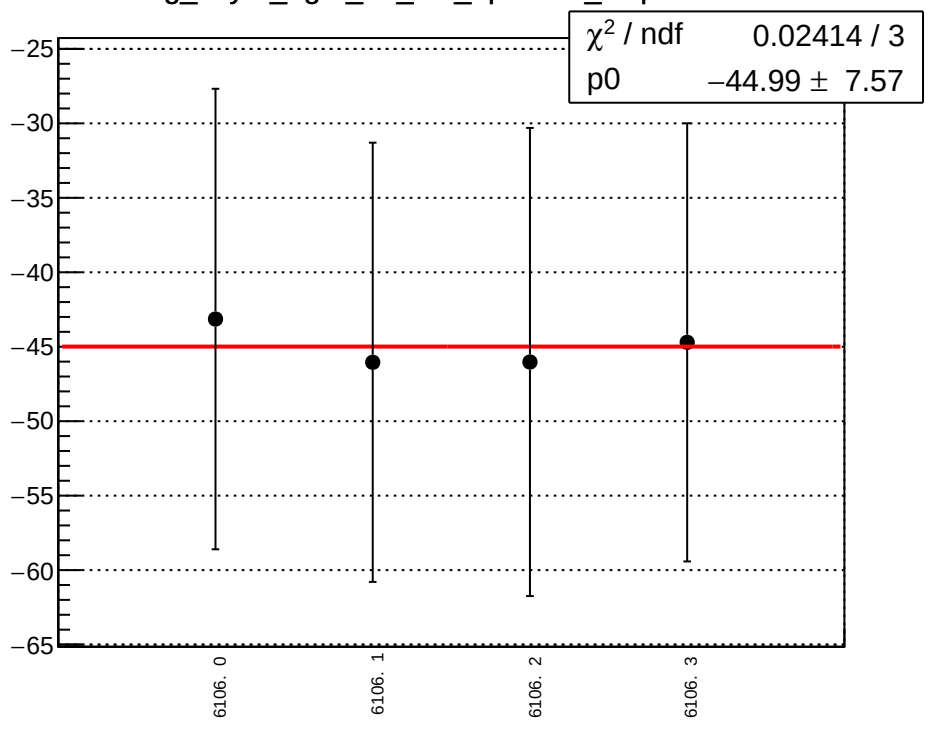

pull1D
Entries 4
Mean −0.0008182
Std Dev 0.1059
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

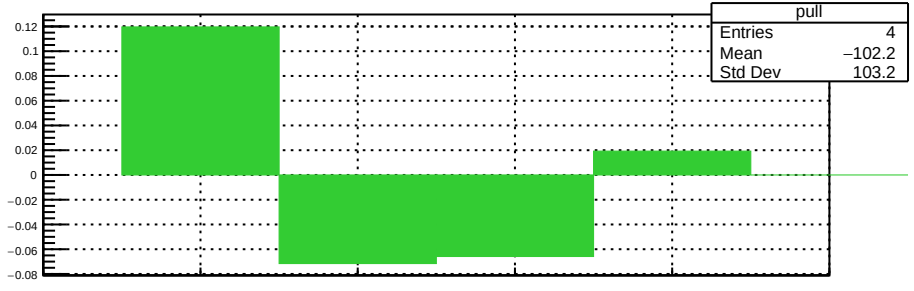

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3764 / 3
p0 9.006 ± 5.124
25
20
15
10
5
0
−5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −14.98
Std Dev 17.46
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

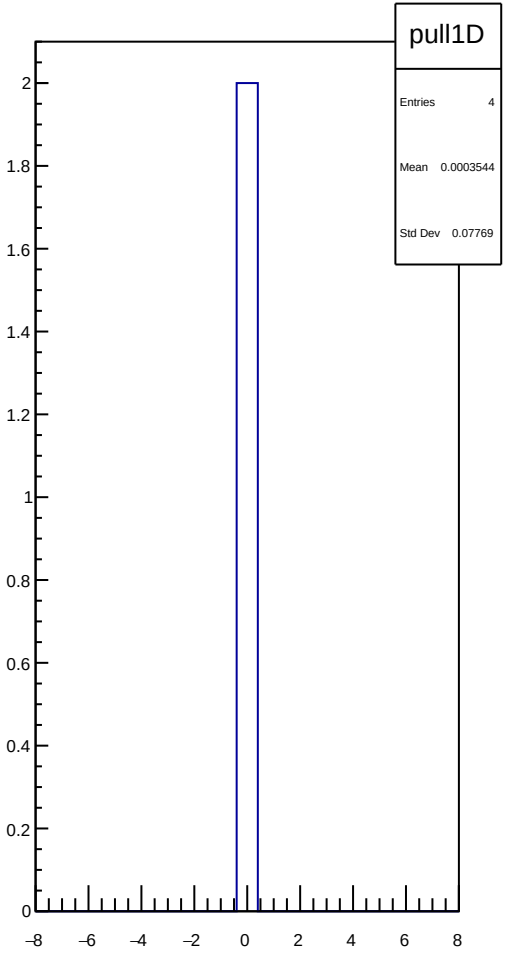

pull1D
Entries 4
Mean 0.01297
Std Dev 0.3065
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

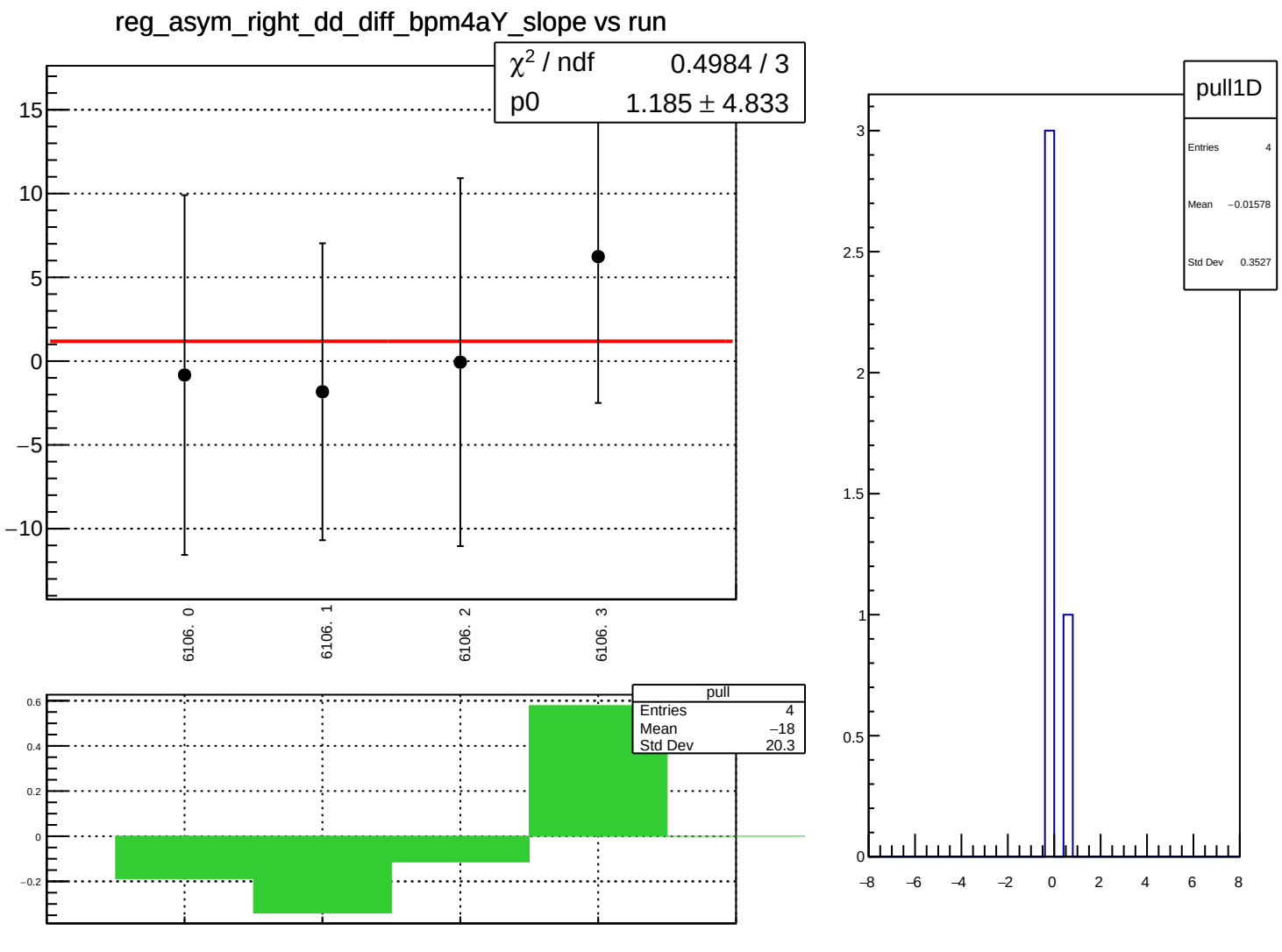

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 1.965 / 3
p0 −18.63 ± 0.3662
−17.5
−18
−18.5
−19
−19.5
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.84
Std Dev 19.58
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

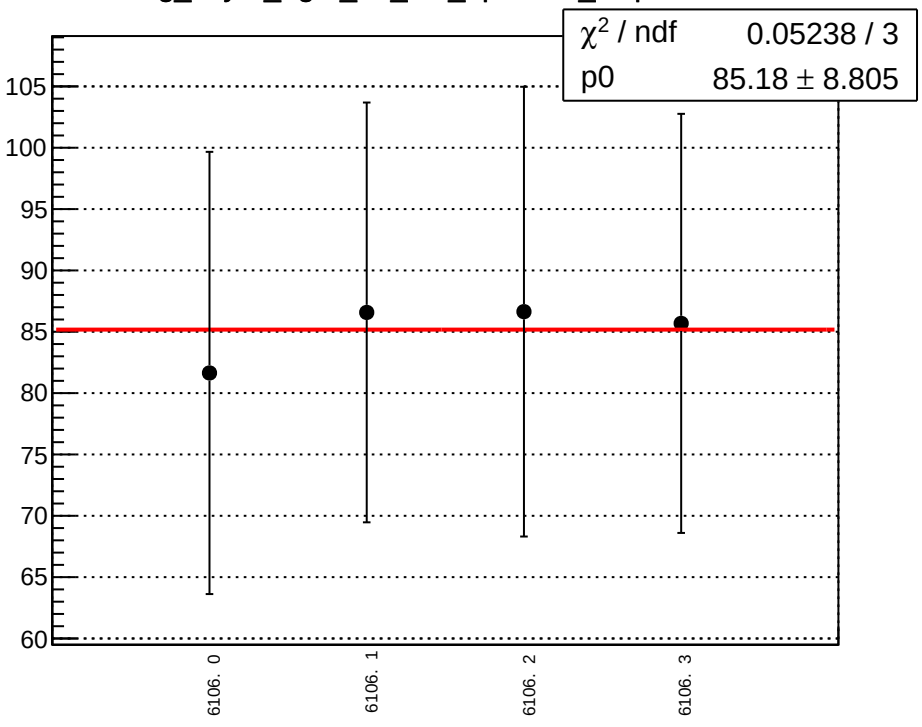

pull1D
Entries 4
Mean −0.02208
Std Dev 0.7005
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

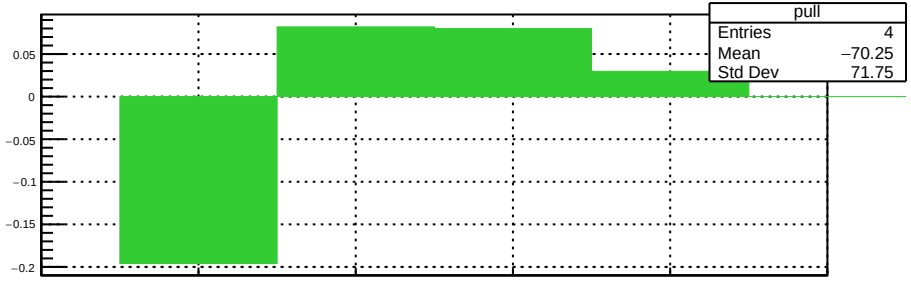

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.02414 / 3
p0 −44.99 ± 7.57
−25
−30
−35
−40
−45
−50
−55
−60
−65
6106. 0
6106. 1
6106. 2
6106. 3

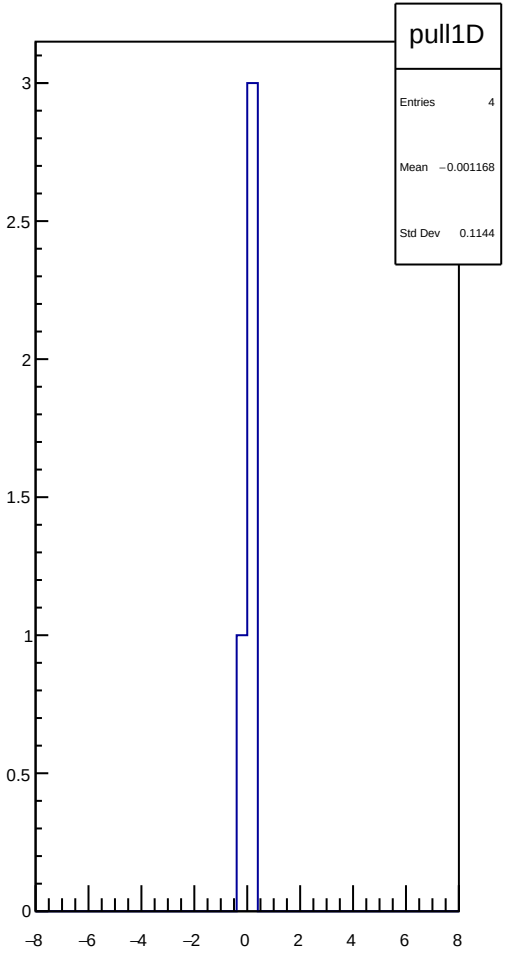

pull
Entries 4
Mean −102.2
Std Dev 103.2
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

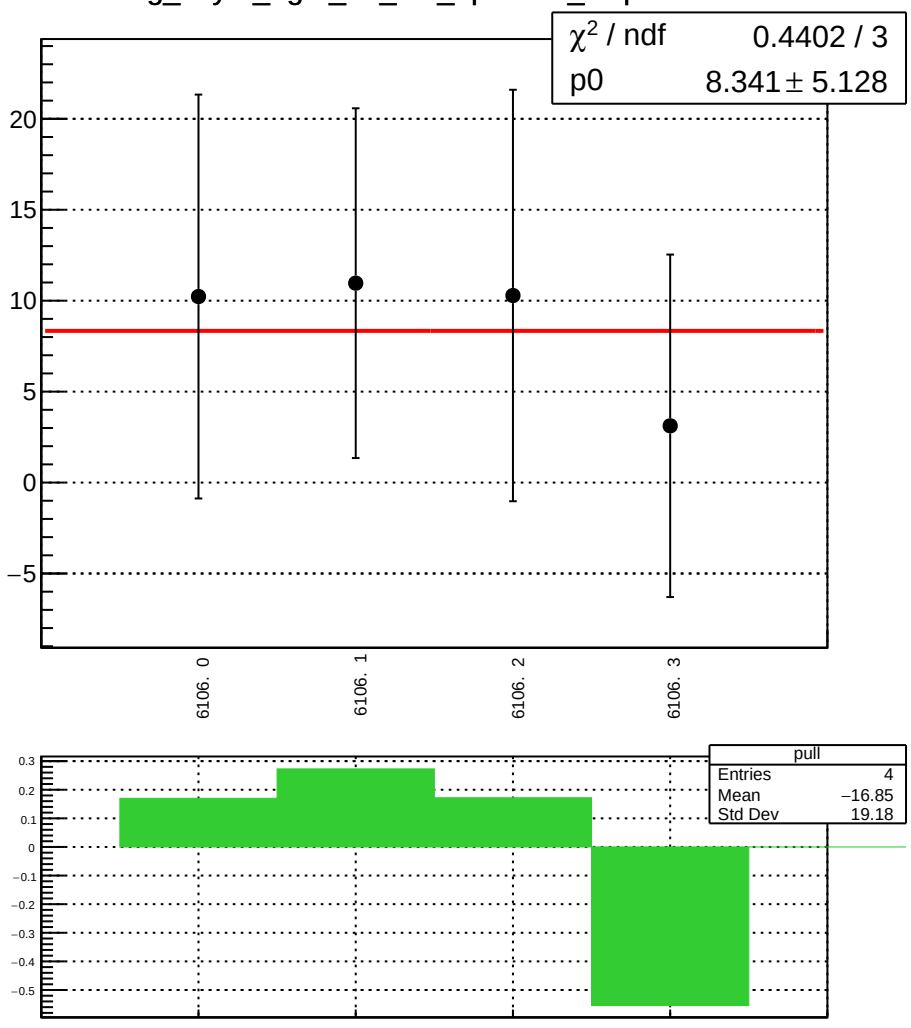

pull1D
Entries 4
Mean 0.0003544
Std Dev 0.07769
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

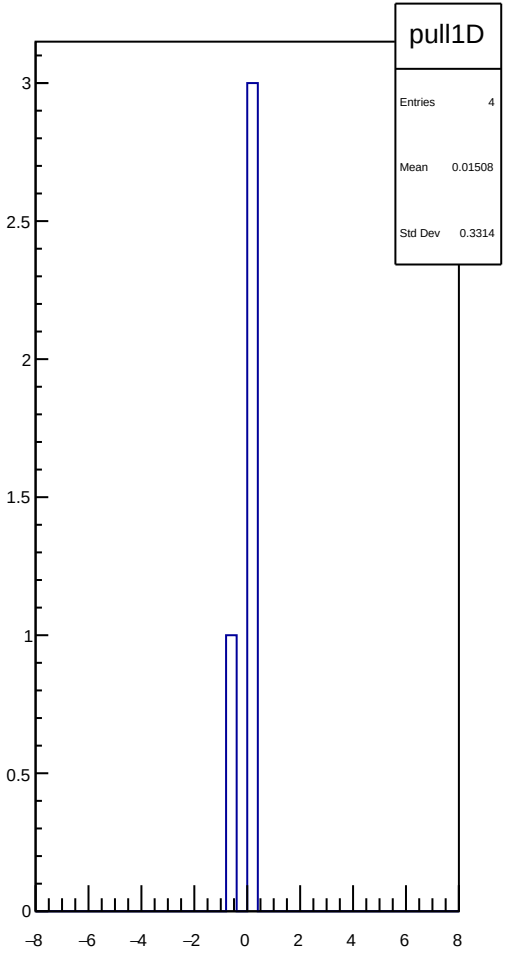

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4984 / 3
p0 1.185 ± 4.833
15
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −18
Std Dev 20.3
0.6
0.4
0.2
0
−0.2
pull1D
Entries 4
Mean −0.01578
Std Dev 0.3527
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

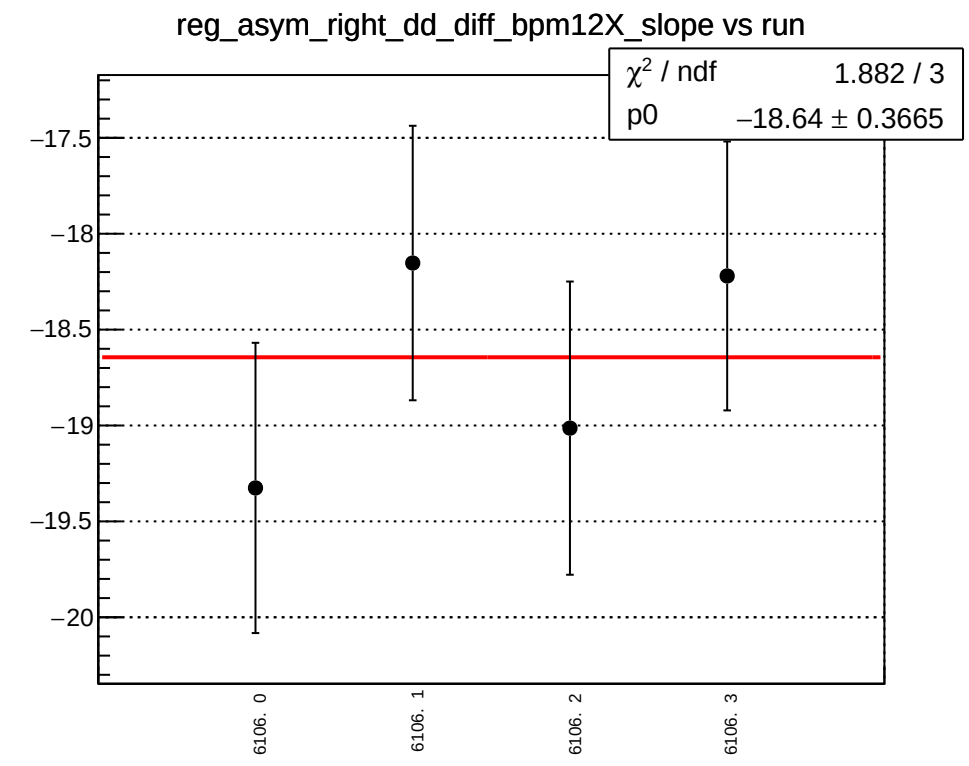

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.05238 / 3
p0 85.18 ± 8.805
105
100
95
90
85
80
75
70
65
60
6106. 0
6106. 1
6106. 2
6106. 3

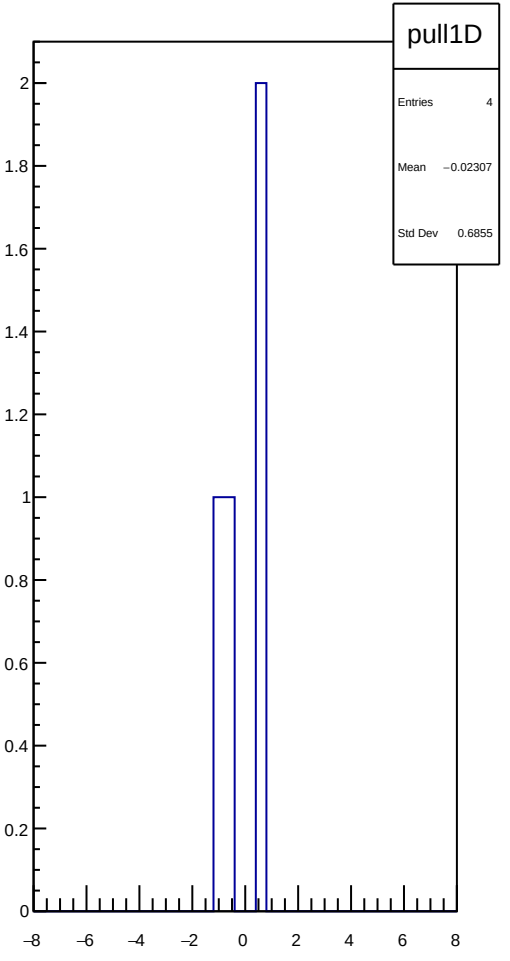

pull
Entries 4
Mean −70.25
Std Dev 71.75
0.05
0
−0.05
−0.1
−0.15
−0.2

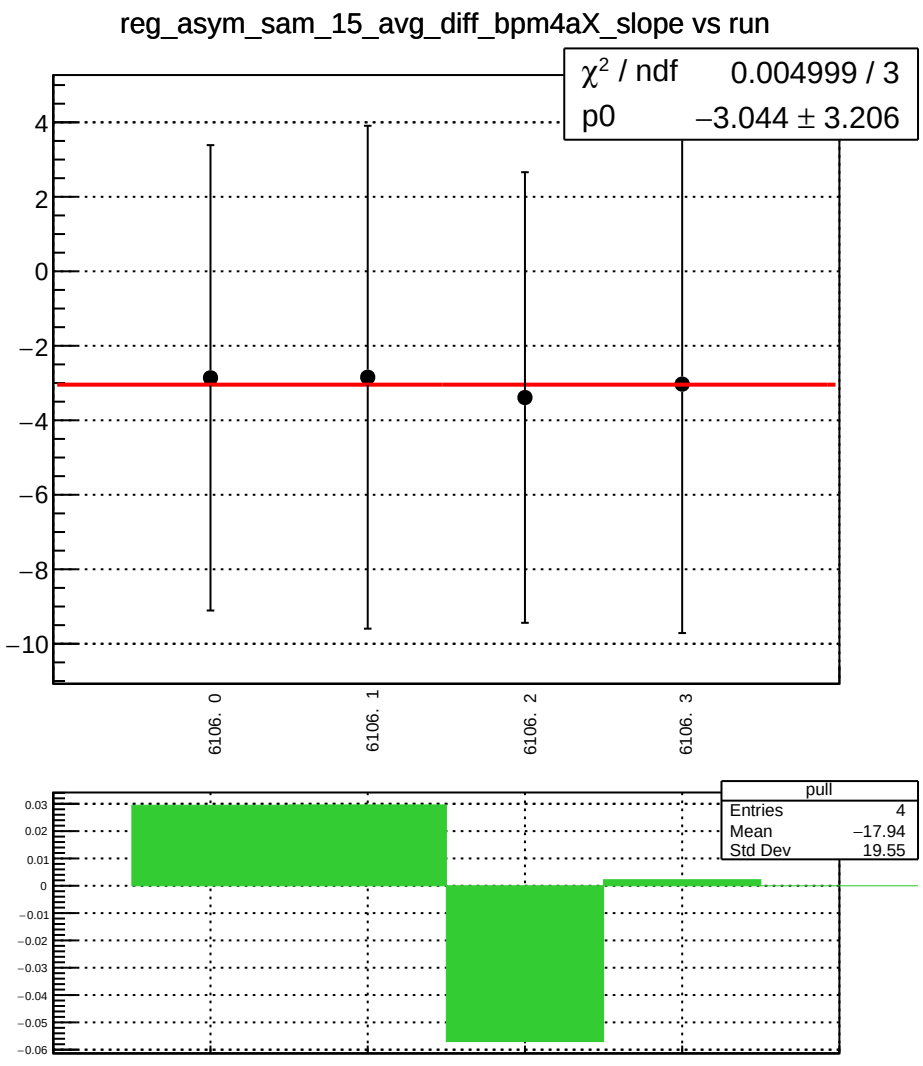

pull1D
Entries 4
Mean −0.001168
Std Dev 0.1144
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

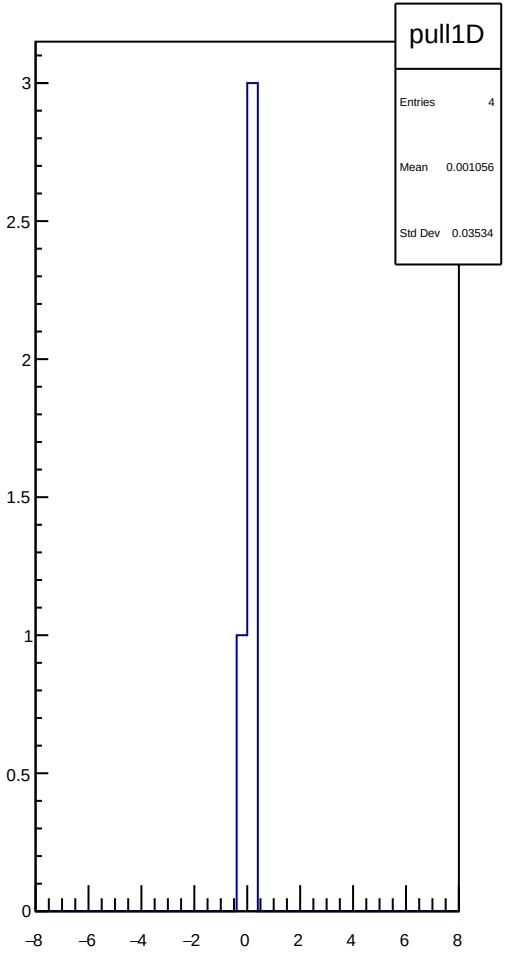

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4402 / 3
p0 8.341 ± 5.128
20
15
10
5
0
−5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −16.85
Std Dev 19.18
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

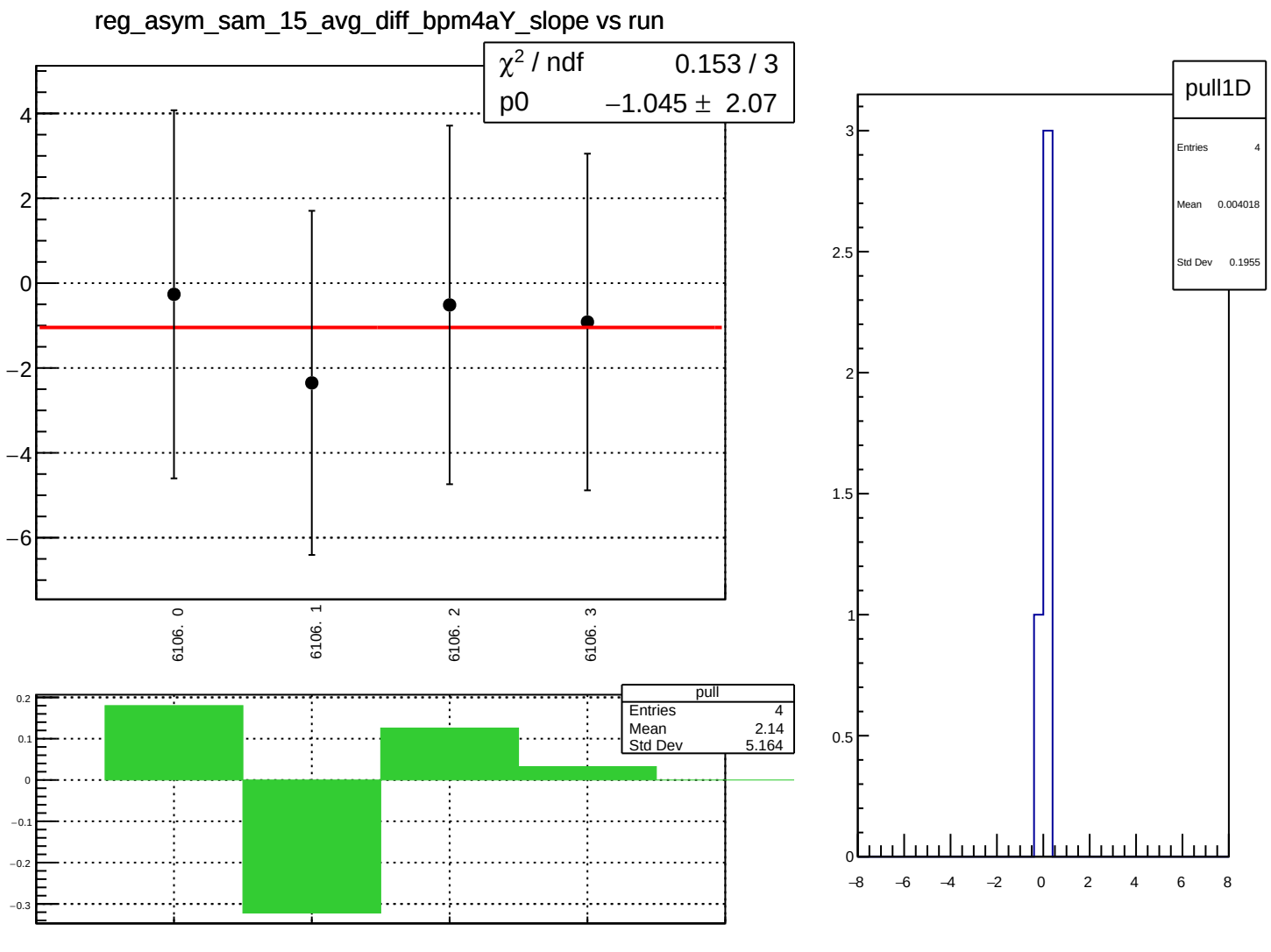

pull1D
Entries 4
Mean 0.01508
Std Dev 0.3314
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

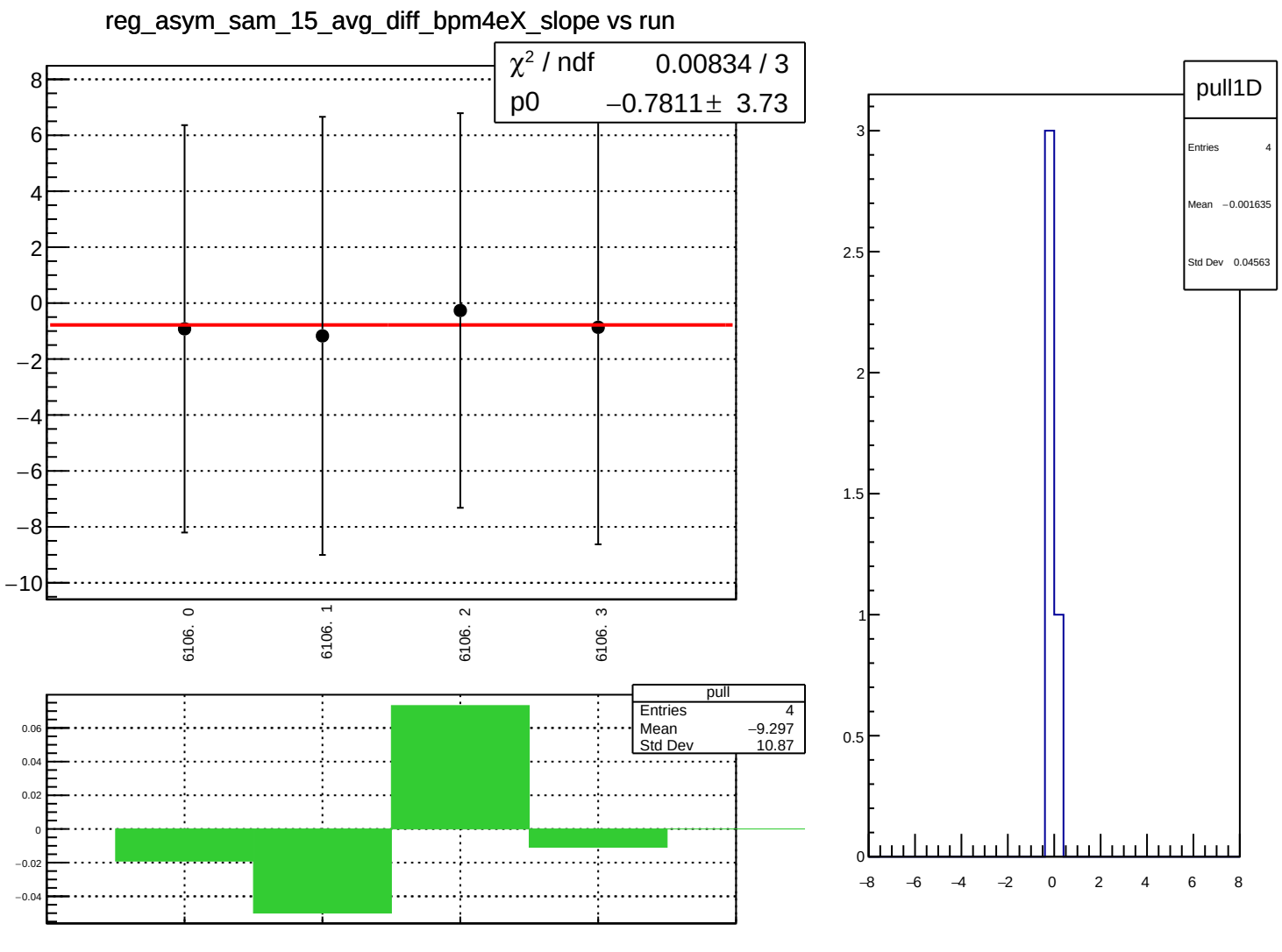

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 1.882 / 3
p0 −18.64 ± 0.3665
−17.5
−18
−18.5
−19
−19.5
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −16.13
Std Dev 17.95
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

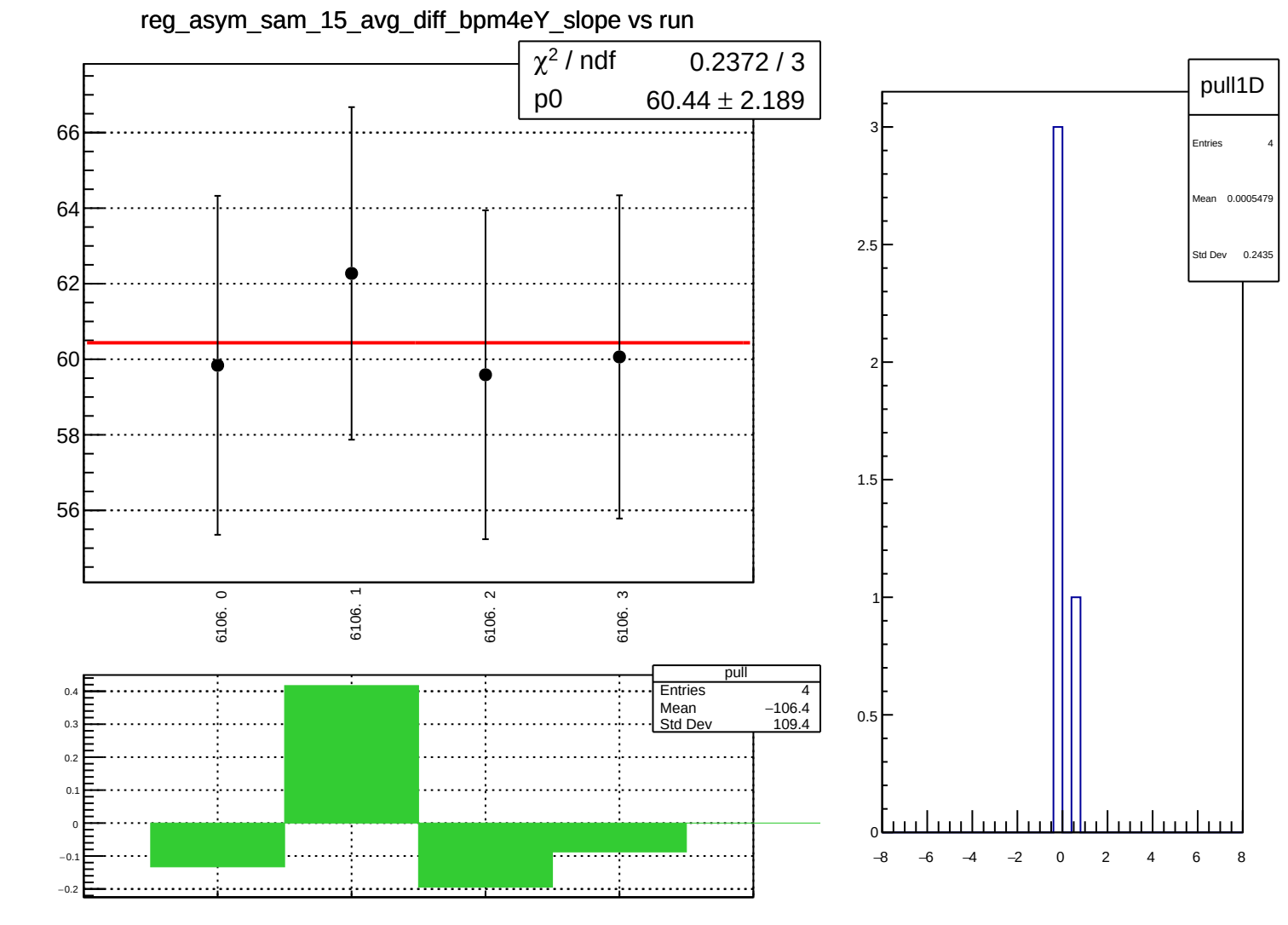

pull1D
Entries 4
Mean −0.02307
Std Dev 0.6855
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

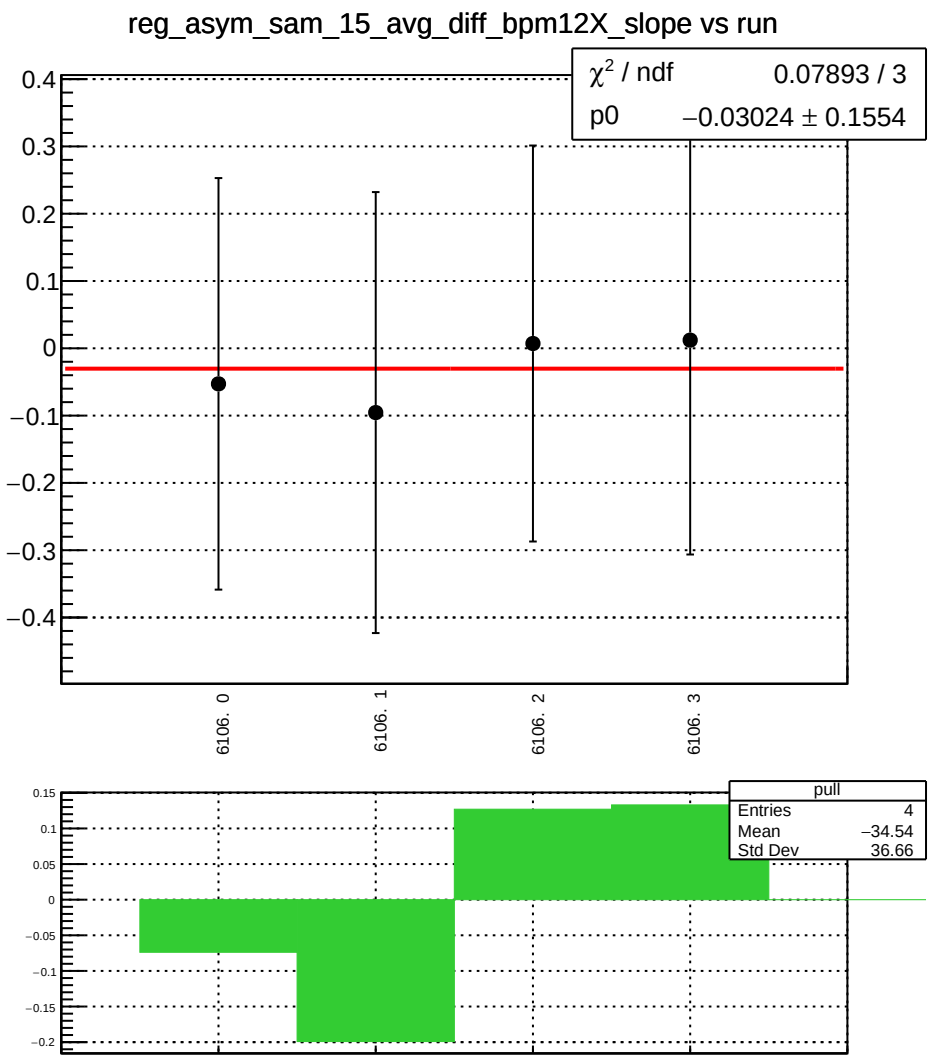

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.004999 / 3
p0 −3.044 ± 3.206
4
2
0
−2
−4
−6
−8
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.94
Std Dev 19.55
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06

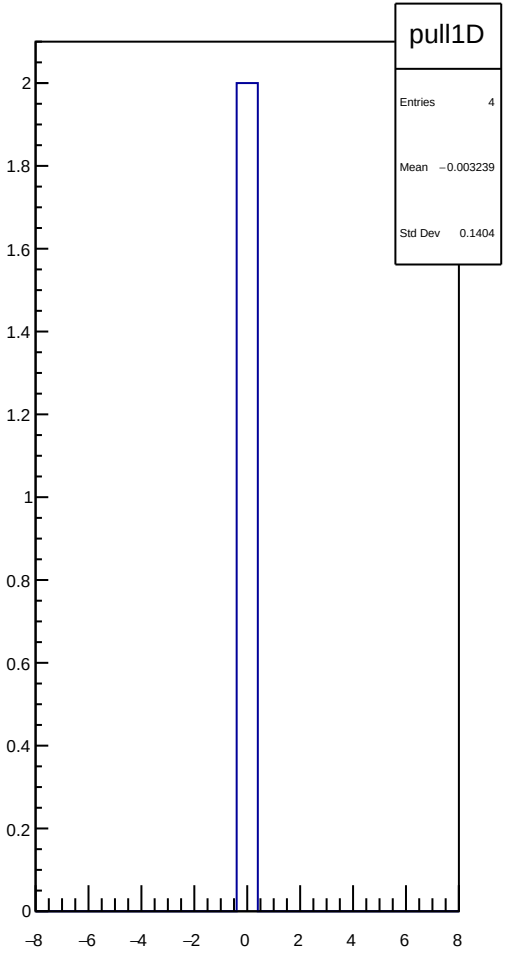

pull1D
Entries 4
Mean 0.001056
Std Dev 0.03534
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

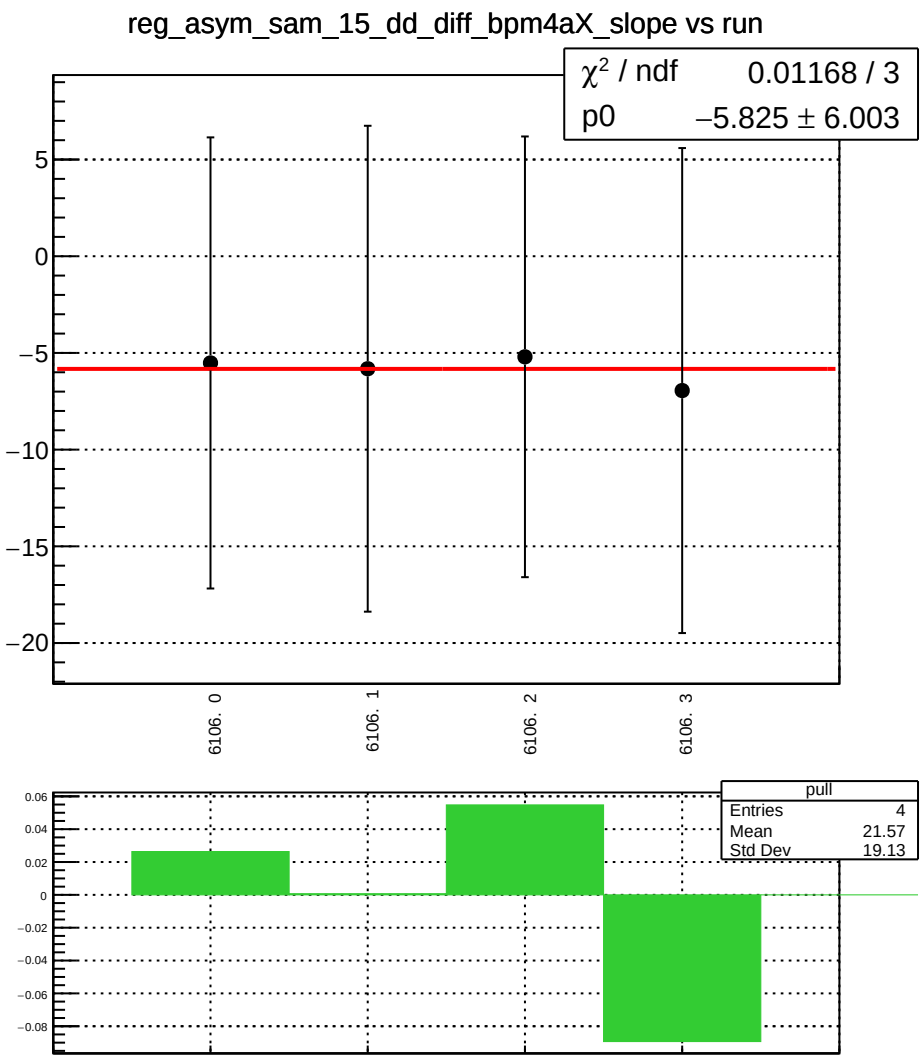

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.153 / 3
p0 −1.045 ± 2.07
4
2
0
−2
−4
−6
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 2.14
Std Dev 5.164
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.004018
Std Dev 0.1955
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

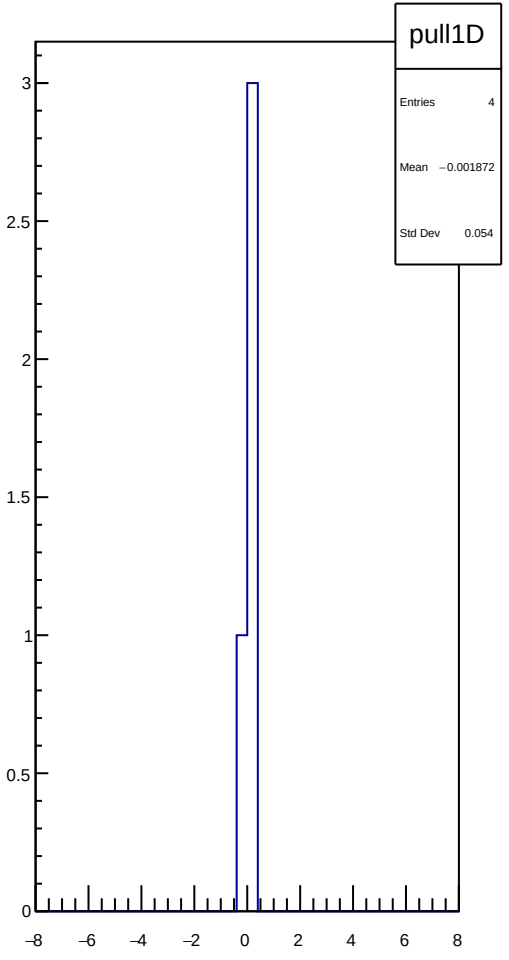

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.00834 / 3
p0 −0.7811 ± 3.73
8
6
4
2
0
−2
−4
−6
−8
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −9.297
Std Dev 10.87
0.06
0.04
0.02
0
−0.02
−0.04
pull1D
Entries 4
Mean −0.001635
Std Dev 0.04563
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

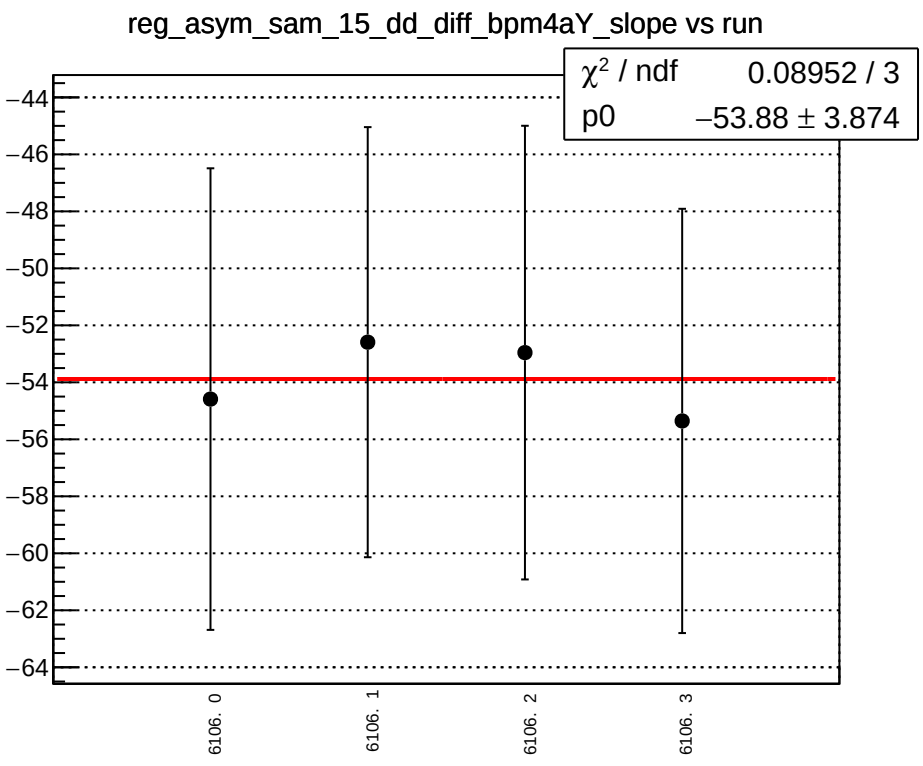

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2372 / 3
p0 60.44 ± 2.189
66
64
62
60
58
56
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −106.4
Std Dev 109.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.0005479
Std Dev 0.2435
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

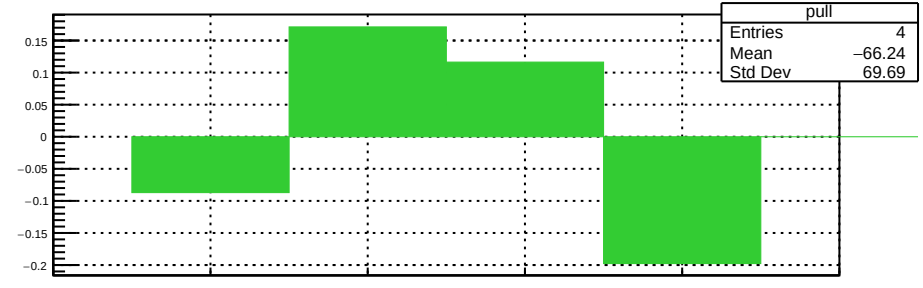

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 0.07893 / 3
p0 −0.03024 ± 0.1554
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −34.54
Std Dev 36.66
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

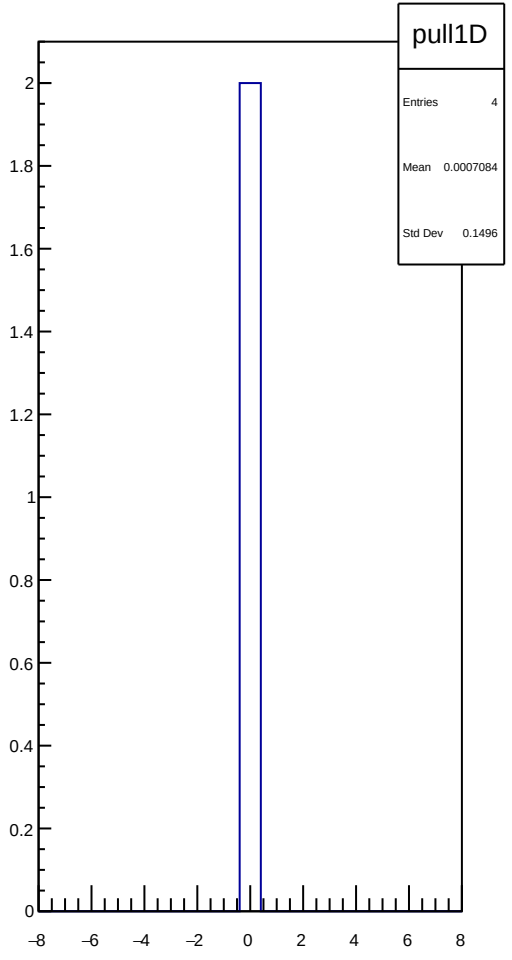

pull1D
Entries 4
Mean −0.003239
Std Dev 0.1404
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

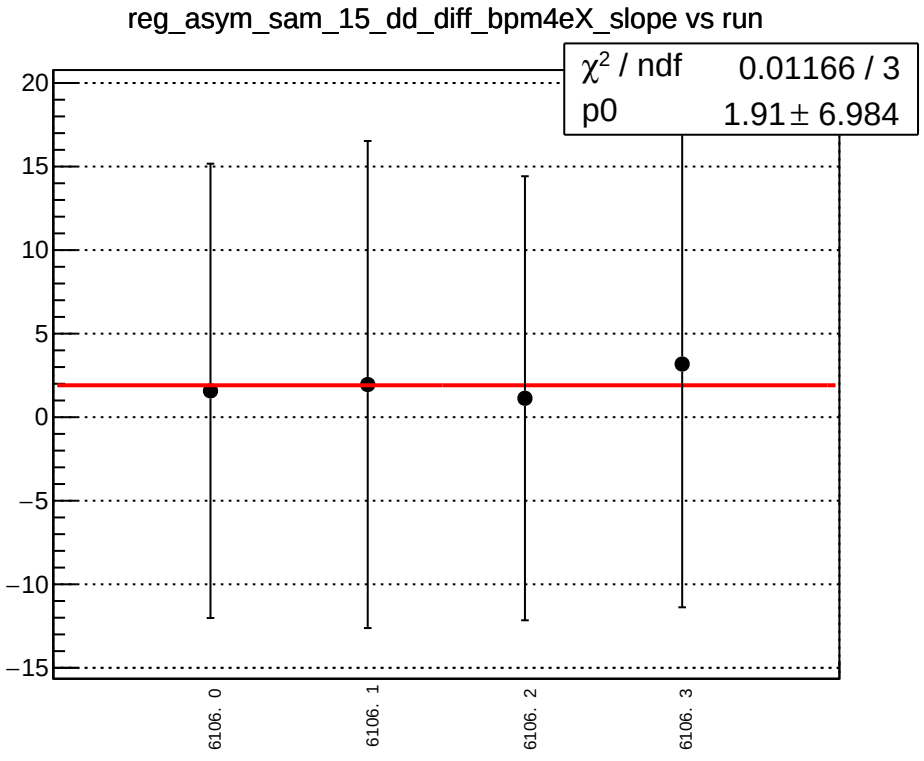

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.01168 / 3
p0 −5.825 ± 6.003
5
0
−5
−10
−15
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 21.57
Std Dev 19.13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

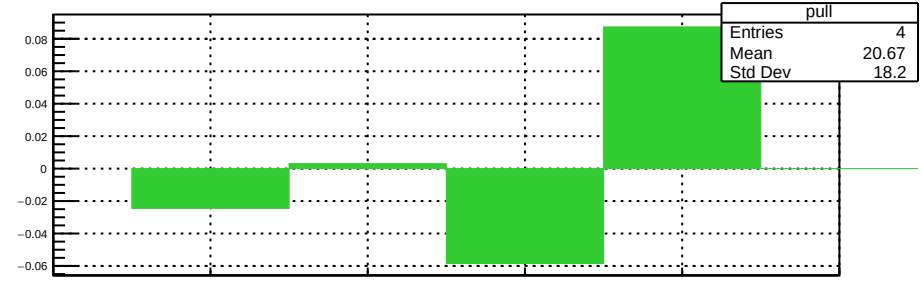

pull1D
Entries 4
Mean −0.001872
Std Dev 0.054
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

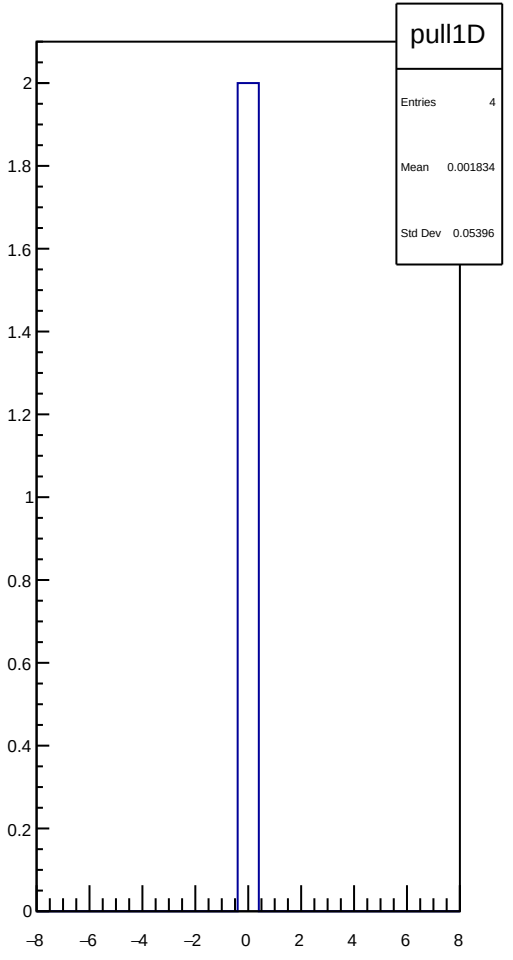

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.08952 / 3
p0 −53.88 ± 3.874
−44
−46
−48
−50
−52
−54
−56
−58
−60
−62
−64
6106. 0
6106. 1
6106. 2
6106. 3

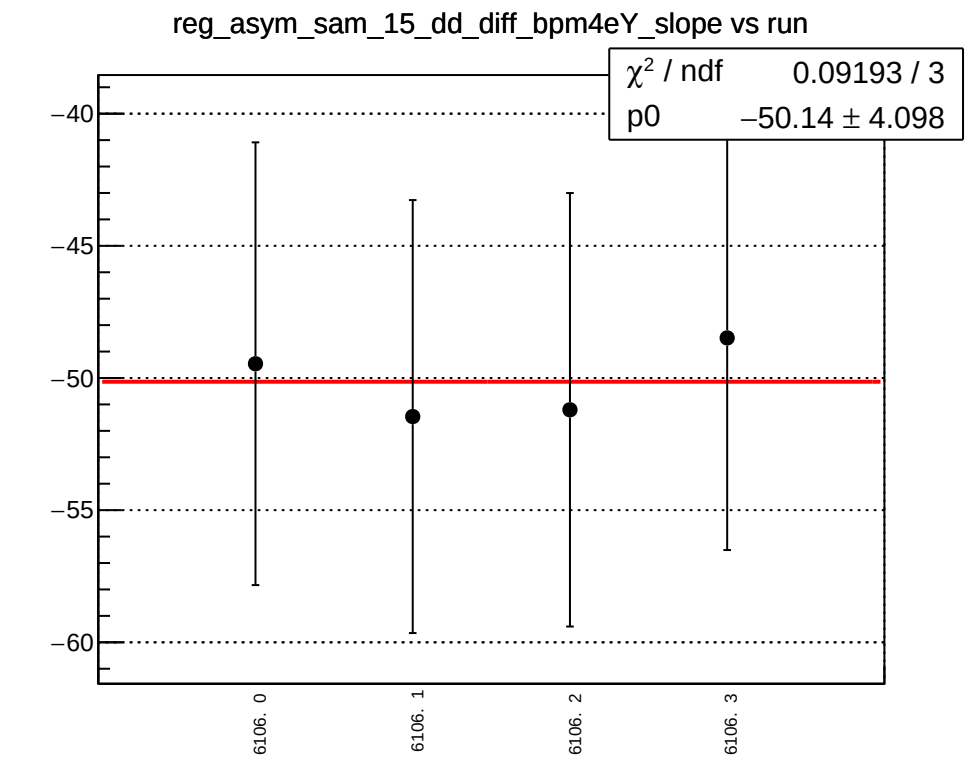

pull
Entries 4
Mean −66.24
Std Dev 69.69
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

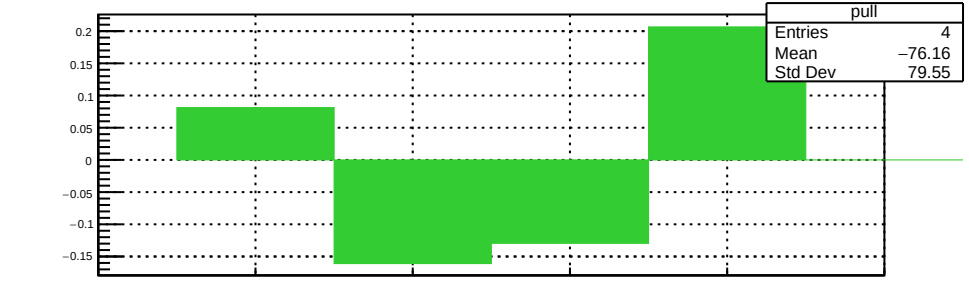

pull1D
Entries 4
Mean 0.0007084
Std Dev 0.1496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

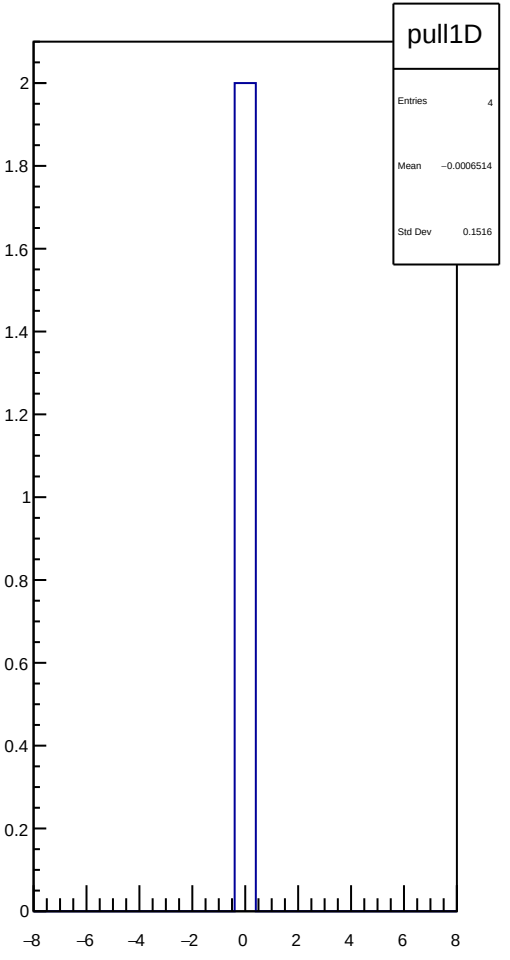

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.01166 / 3
p0 1.91 ± 6.984
20
15
10
5
0
−5
−10
−15
6106. 0
6106. 1
6106. 2
6106. 3

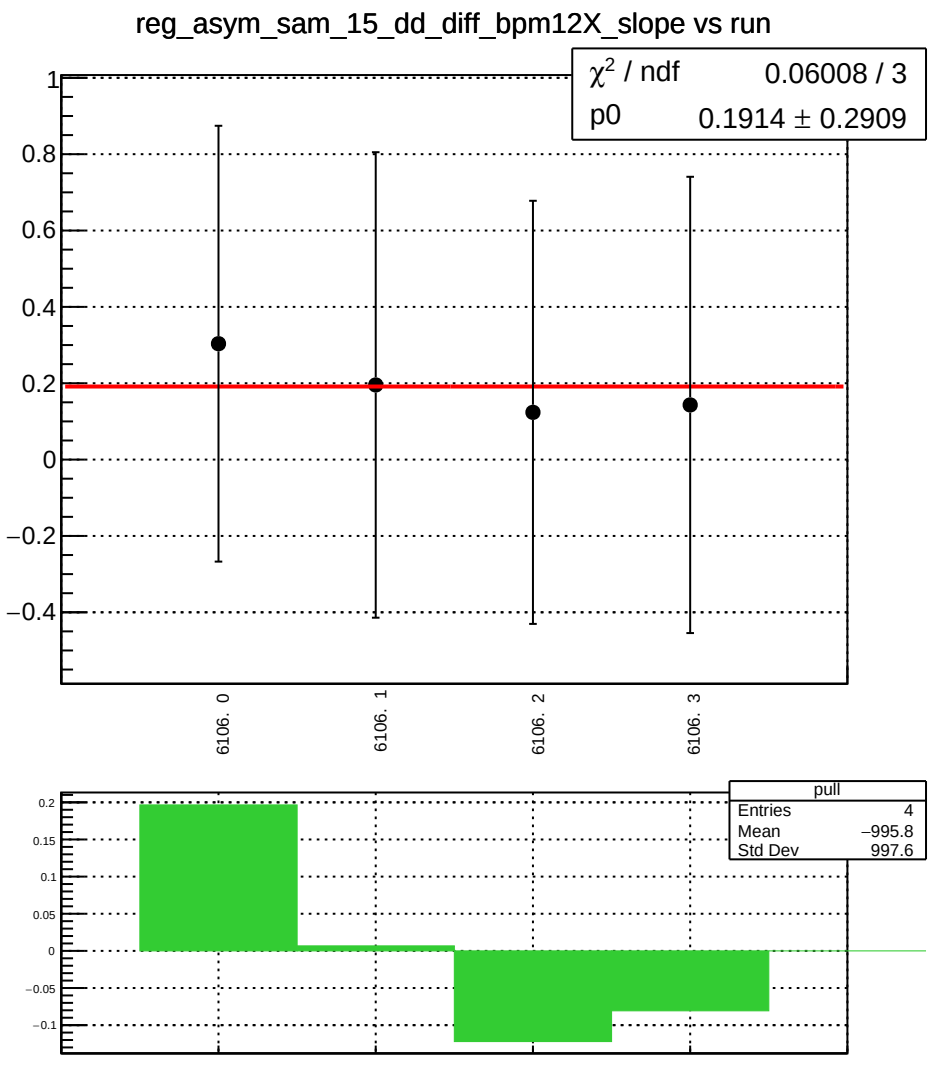

pull
Entries 4
Mean 20.67
Std Dev 18.2
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

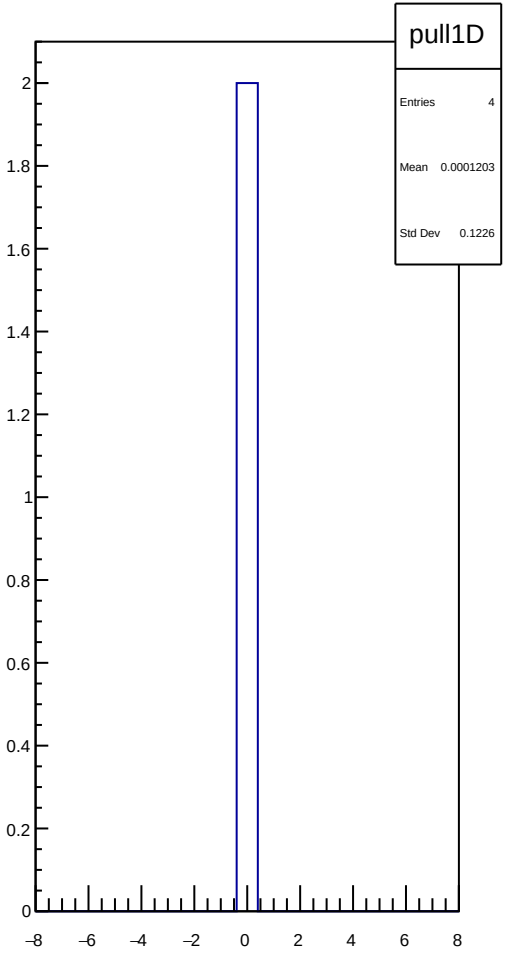

pull1D
Entries 4
Mean 0.001834
Std Dev 0.05396
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

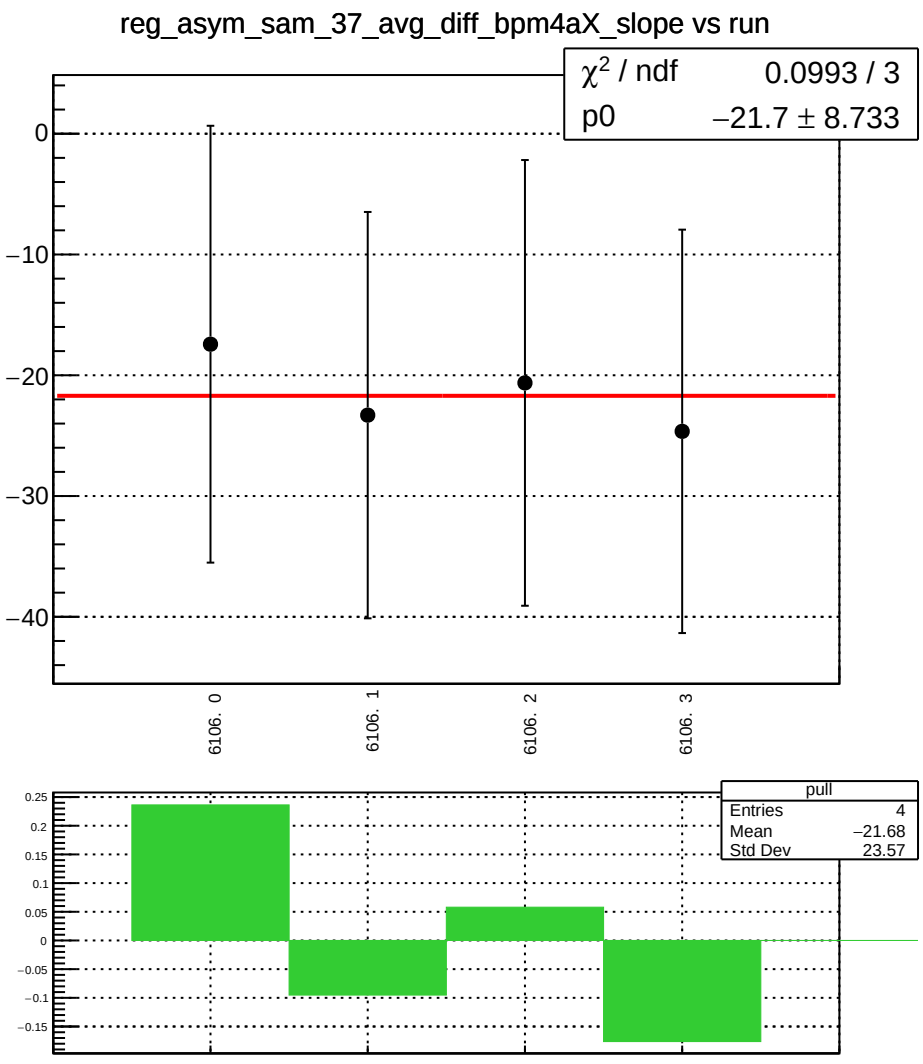

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.09193 / 3
p0 −50.14 ± 4.098
−40
−45
−50
−55
−60
6106. 0
6106. 1
6106. 2
6106. 3

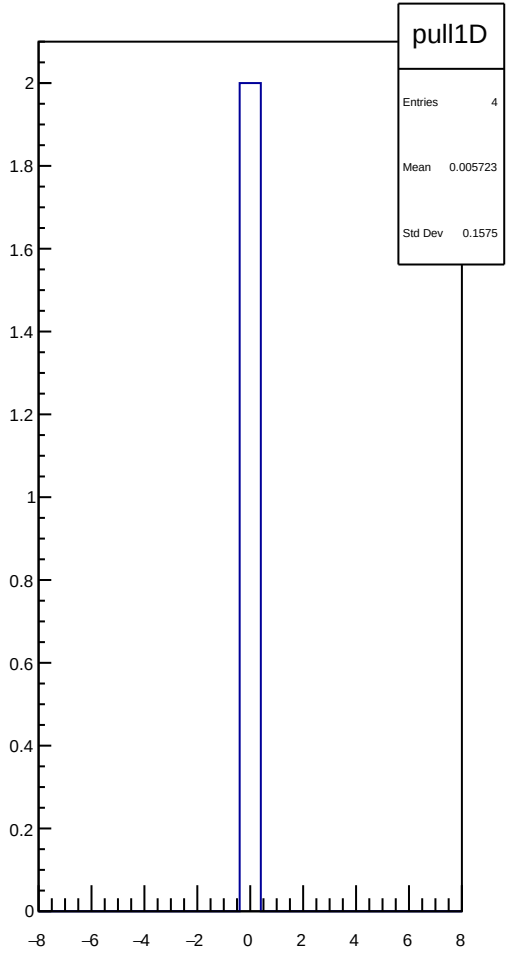

pull
Entries 4
Mean −76.16
Std Dev 79.55
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

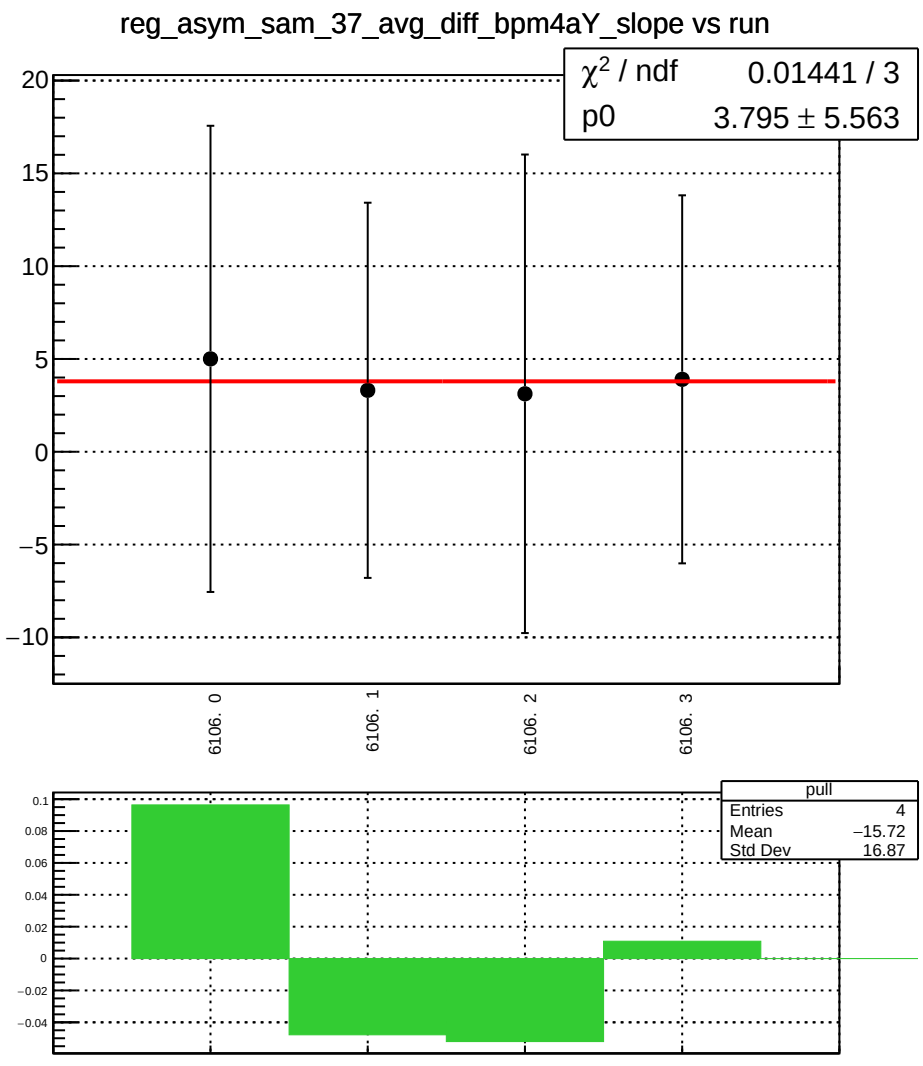

pull1D
Entries 4
Mean −0.0006514
Std Dev 0.1516
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

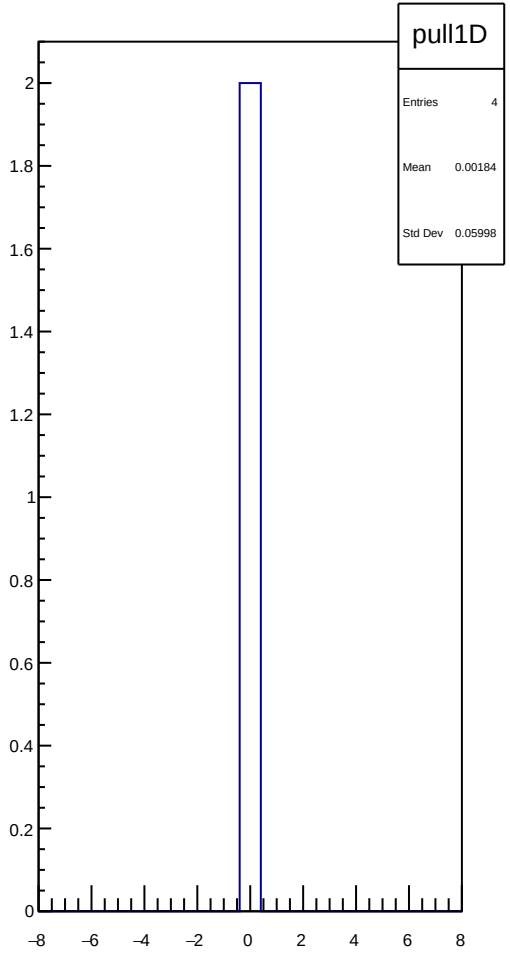

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.06008 / 3
p0 0.1914 ± 0.2909
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −995.8
Std Dev 997.6
0.2
0.15
0.1
0.05
0
−0.05
−0.1

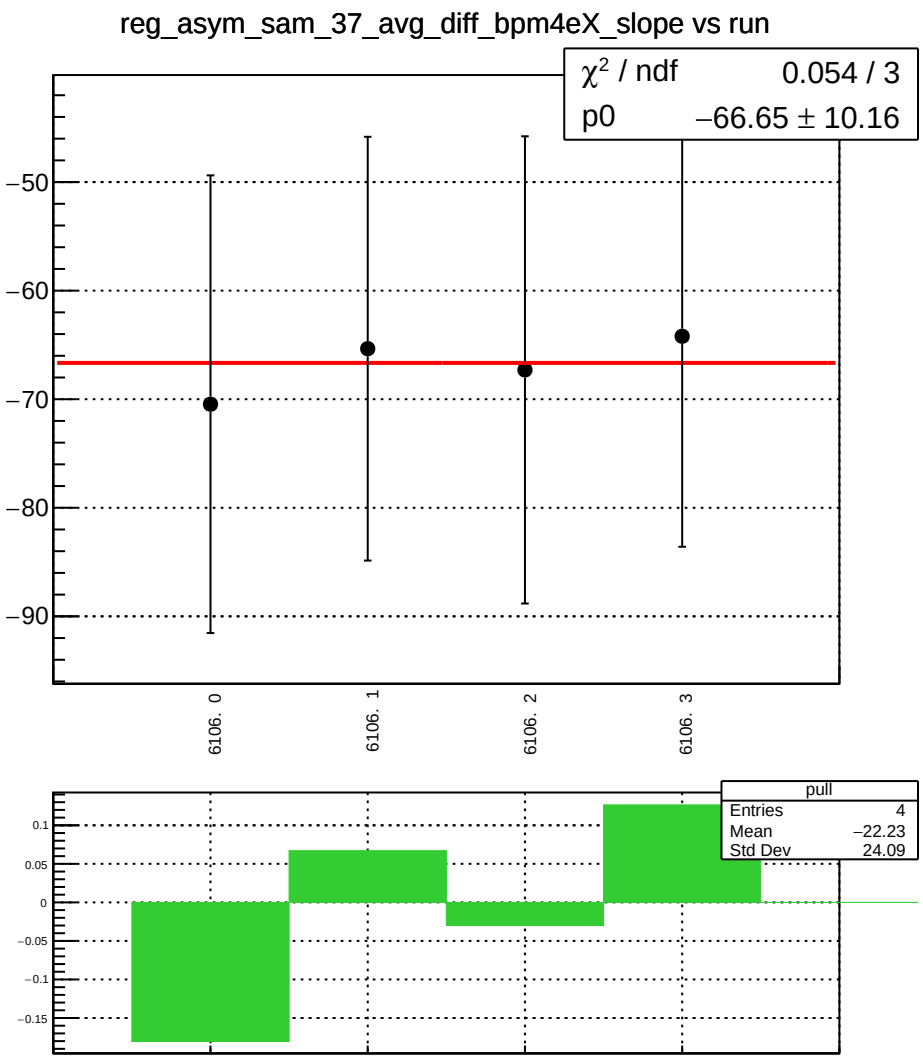

pull1D
Entries 4
Mean 0.0001203
Std Dev 0.1226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

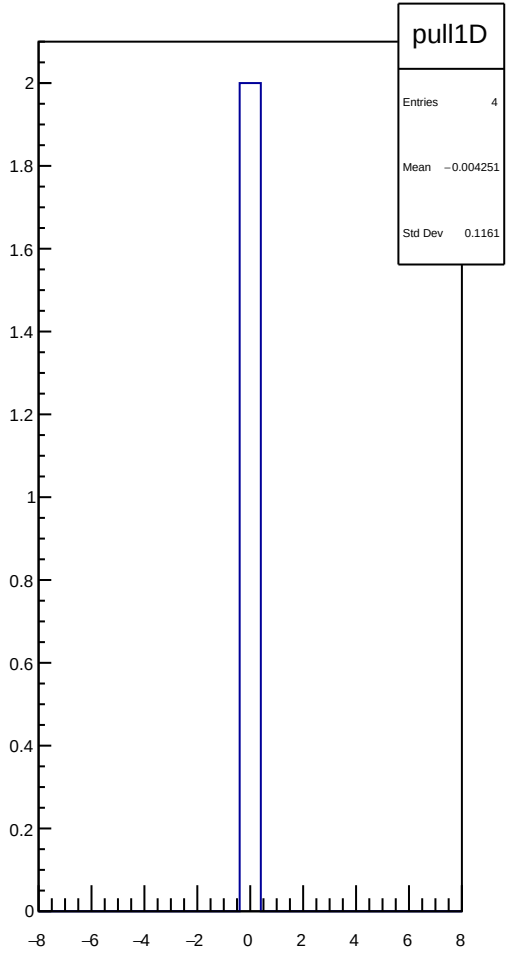

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.0993 / 3
p0 −21.7 ± 8.733
0
−10
−20
−30
−40
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −21.68
Std Dev 23.57
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

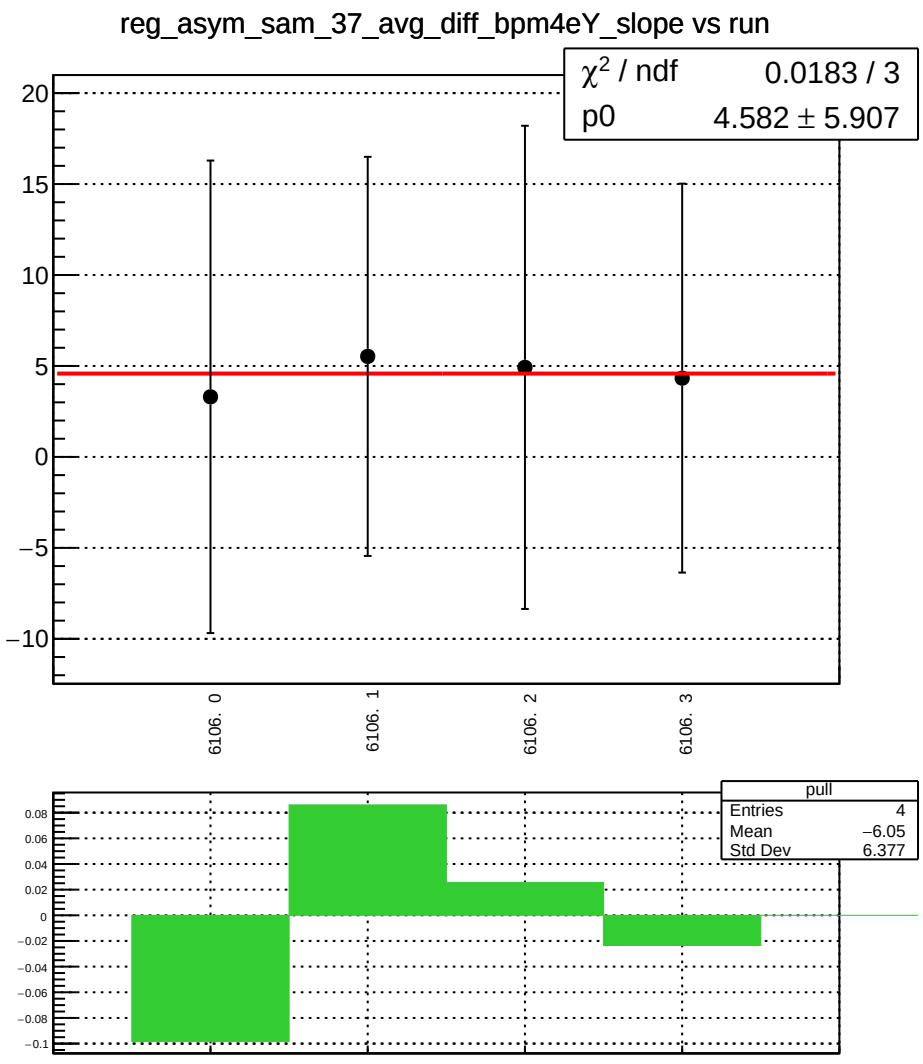

pull1D
Entries 4
Mean 0.005723
Std Dev 0.1575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

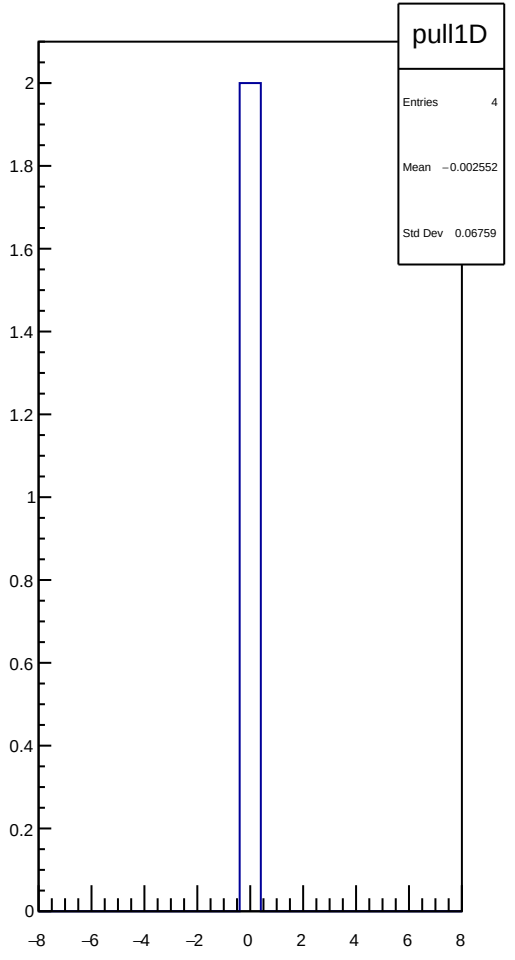

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.01441 / 3
p0 3.795 ± 5.563
20
15
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −15.72
Std Dev 16.87
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04

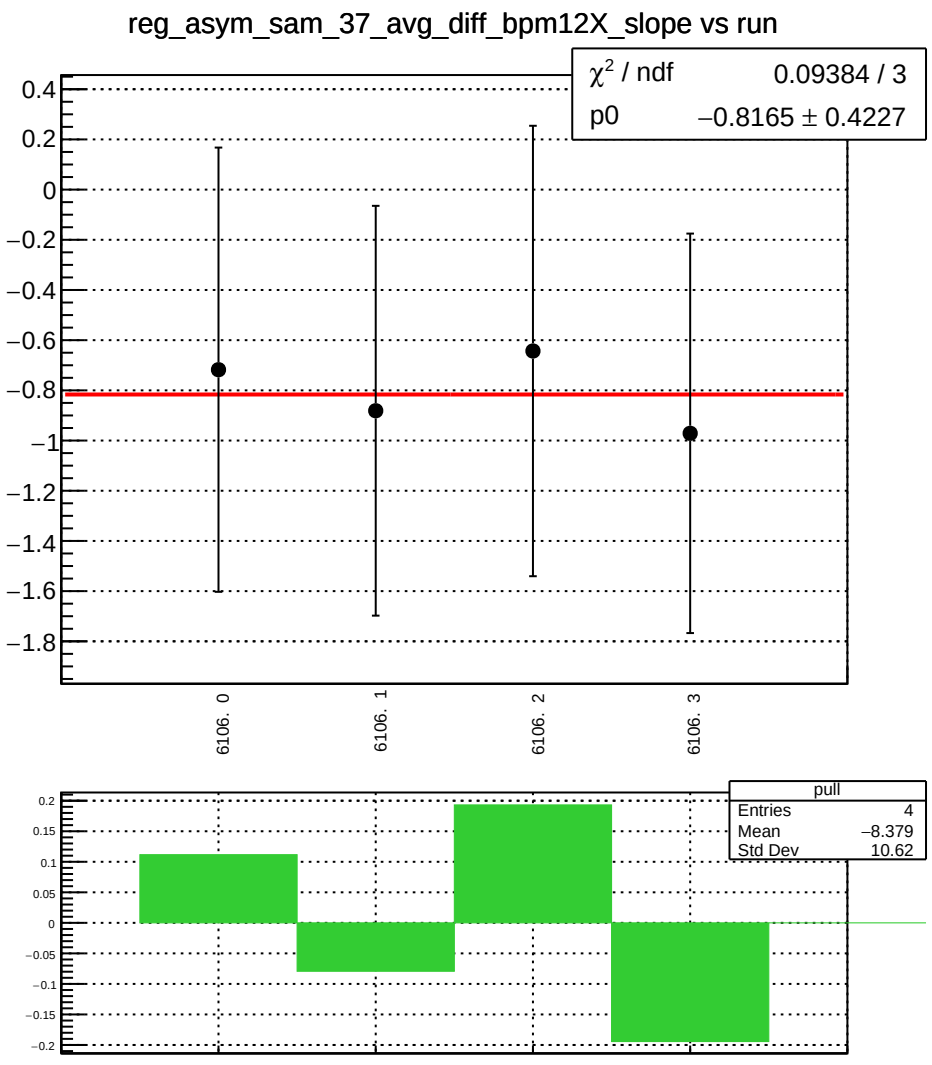

pull1D
Entries 4
Mean 0.00184
Std Dev 0.05998
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

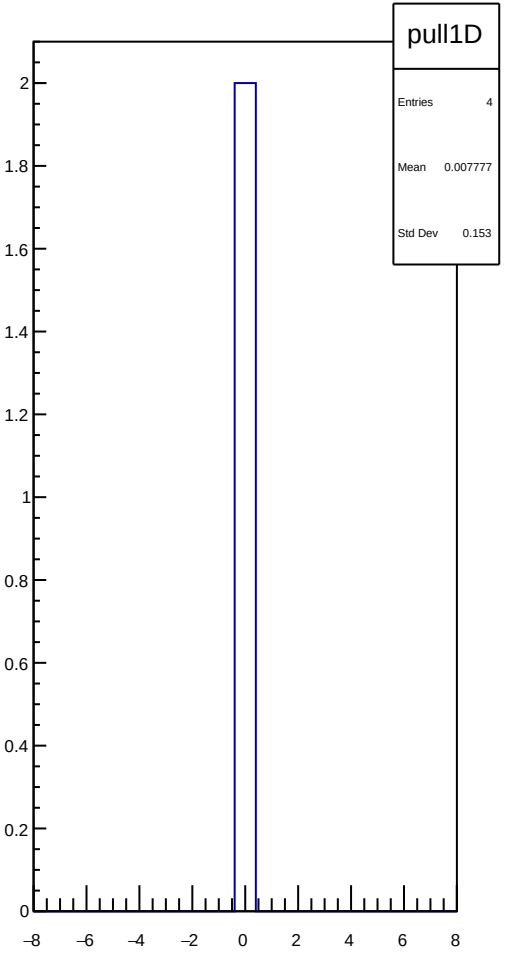

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.054 / 3
p0 −66.65 ± 10.16
−50
−60
−70
−80
−90
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −22.23
Std Dev 24.09
0.1
0.05
0
−0.05
−0.1
−0.15

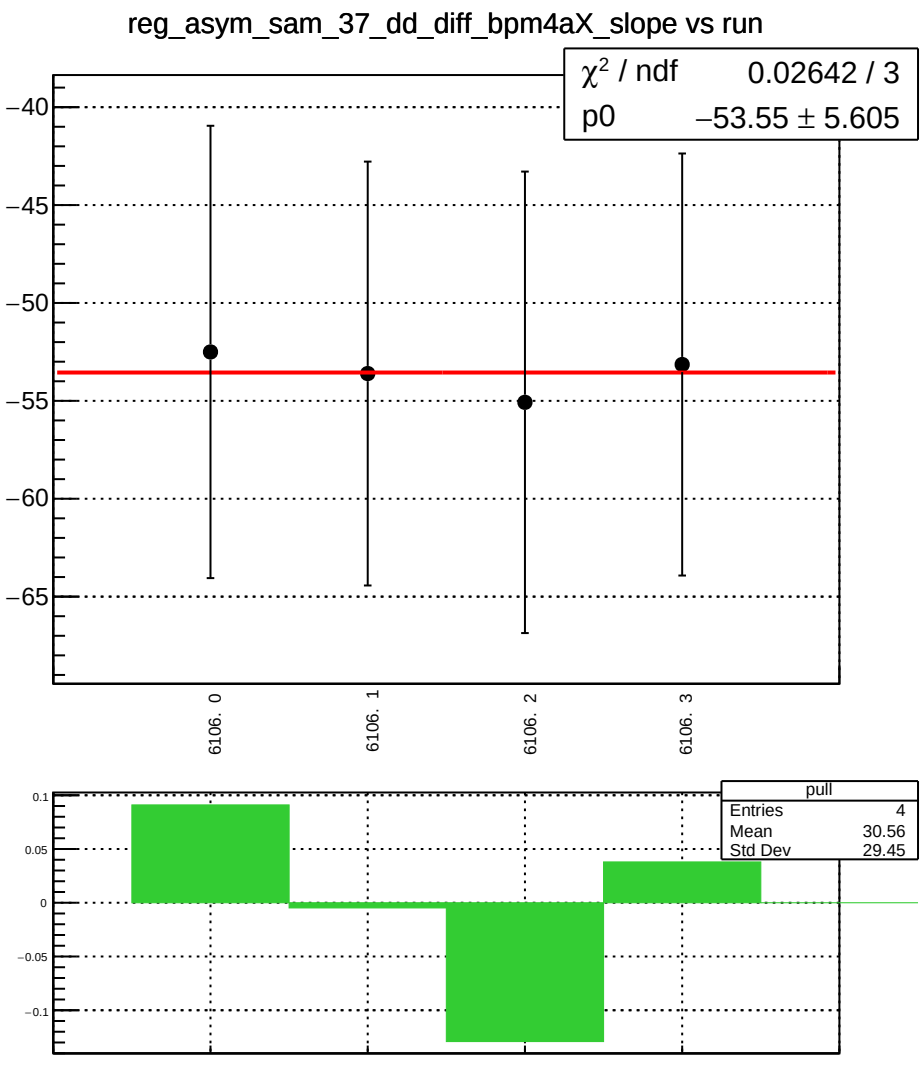

pull1D
Entries 4
Mean −0.004251
Std Dev 0.1161
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

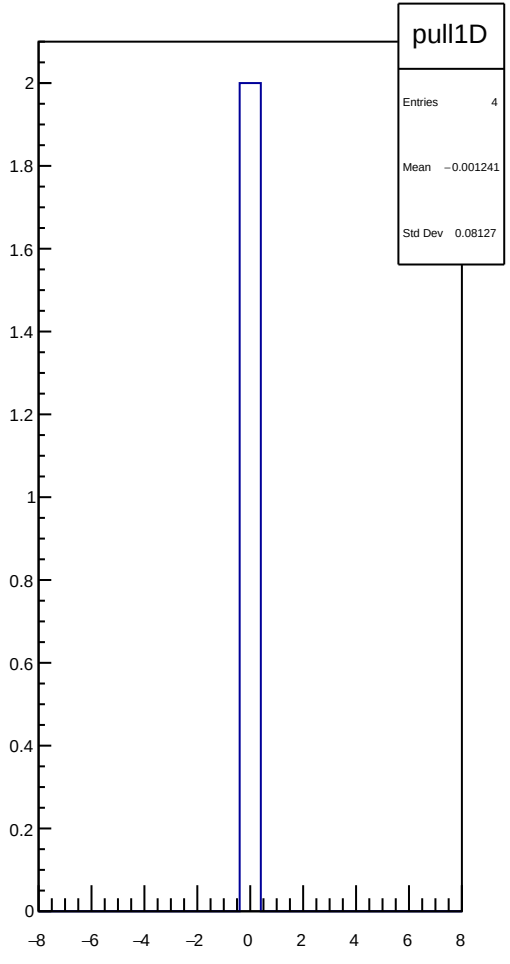

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.0183 / 3
p0 4.582 ± 5.907
20
15
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −6.05
Std Dev 6.377
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1

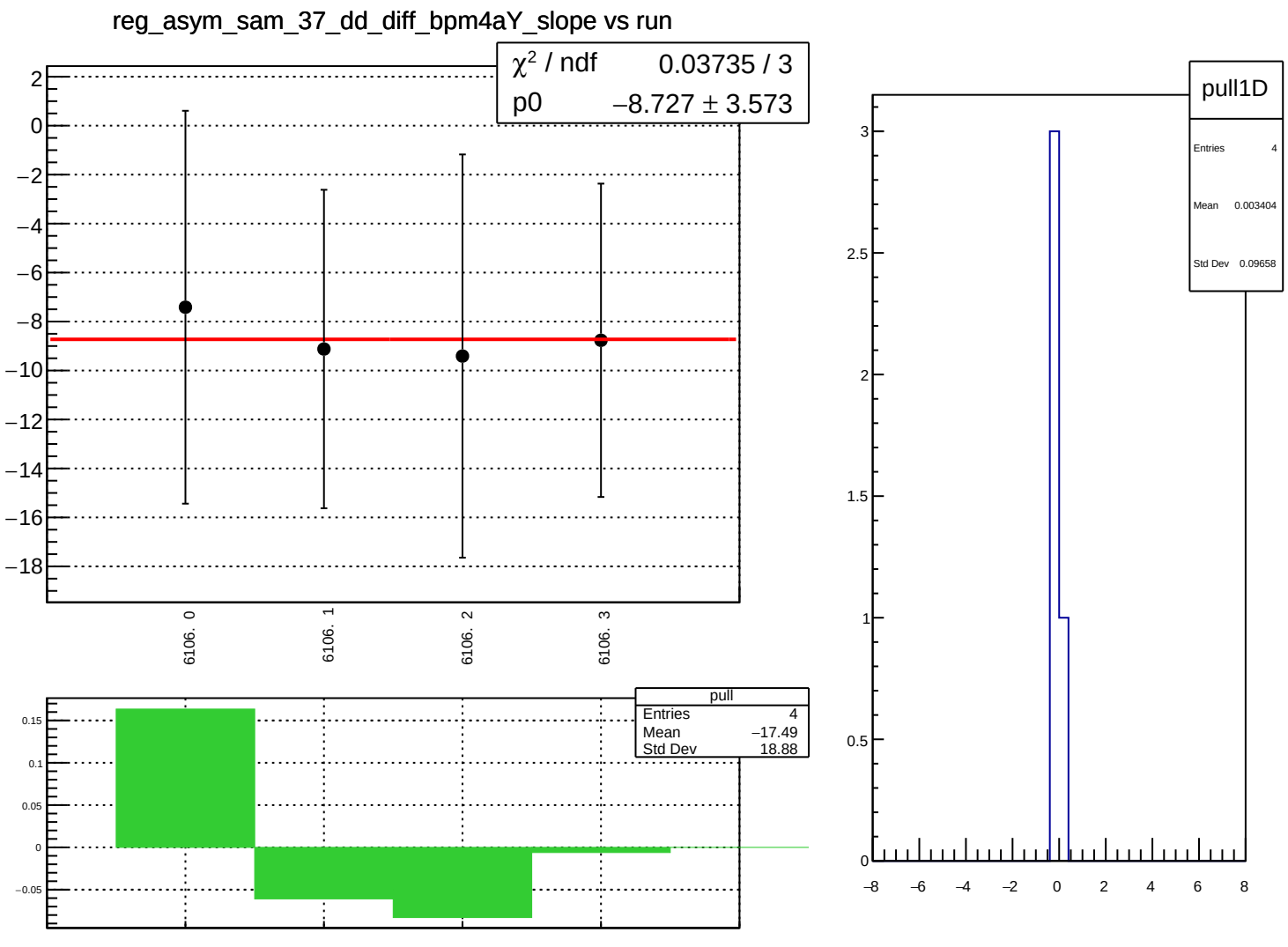

pull1D
Entries 4
Mean −0.002552
Std Dev 0.06759
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

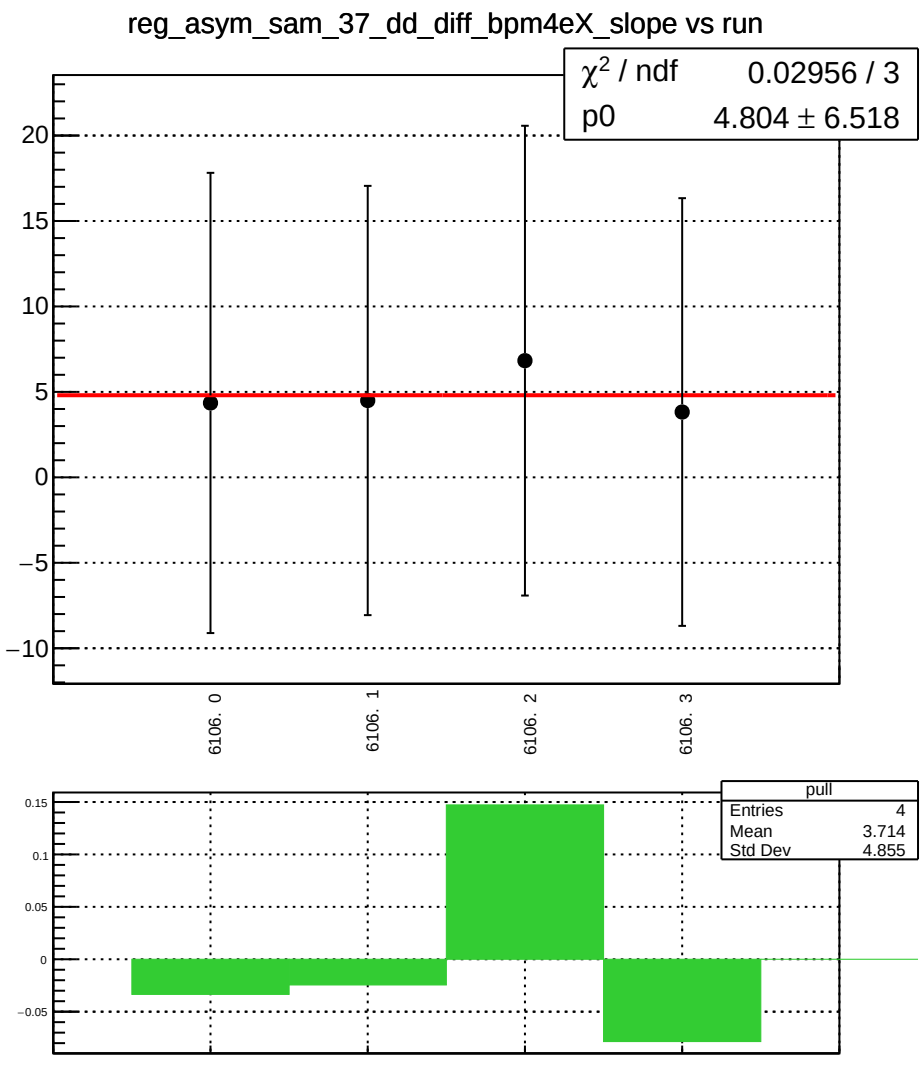

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.09384 / 3
p0 −0.8165 ± 0.4227
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −8.379
Std Dev 10.62
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

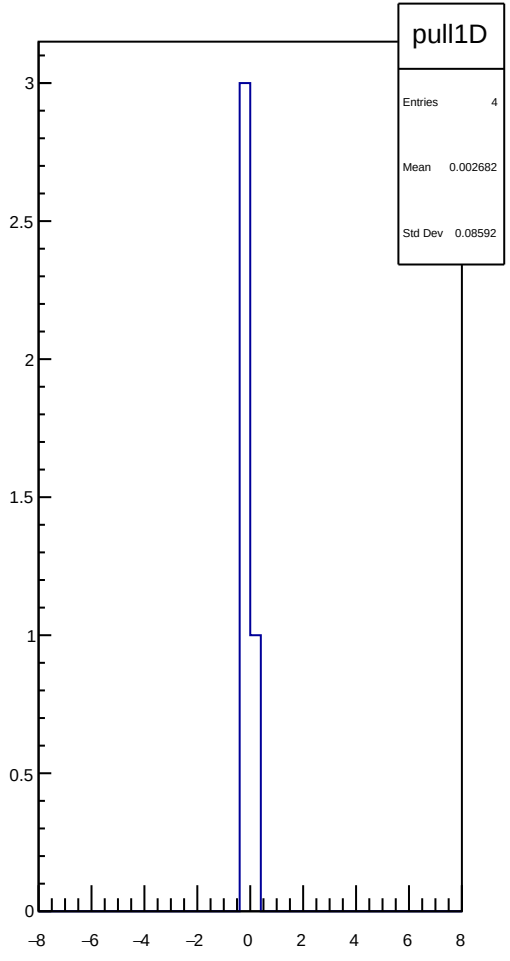

pull1D
Entries 4
Mean 0.007777
Std Dev 0.153
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

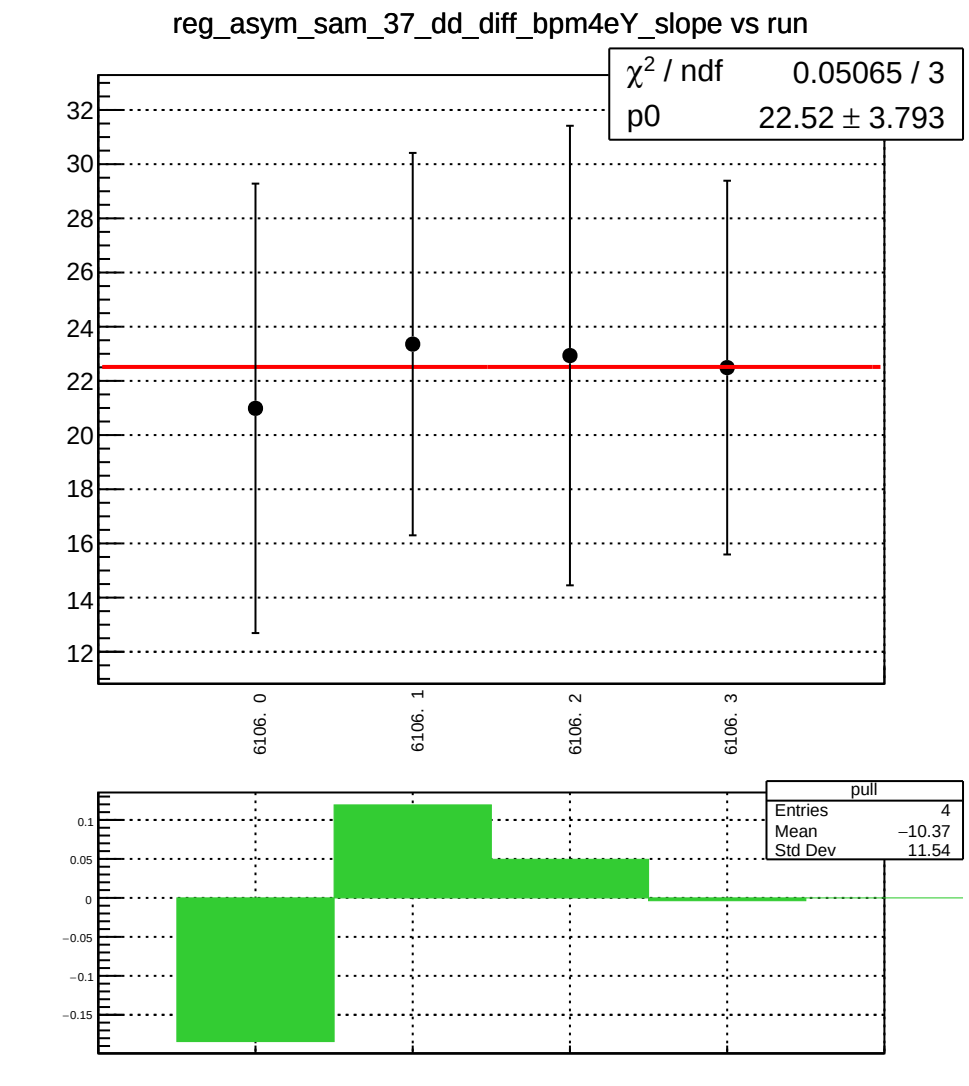

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.02642 / 3
p0 −53.55 ± 5.605
−40
−45
−50
−55
−60
−65
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 30.56
Std Dev 29.45
0.1
0.05
0
−0.05
−0.1

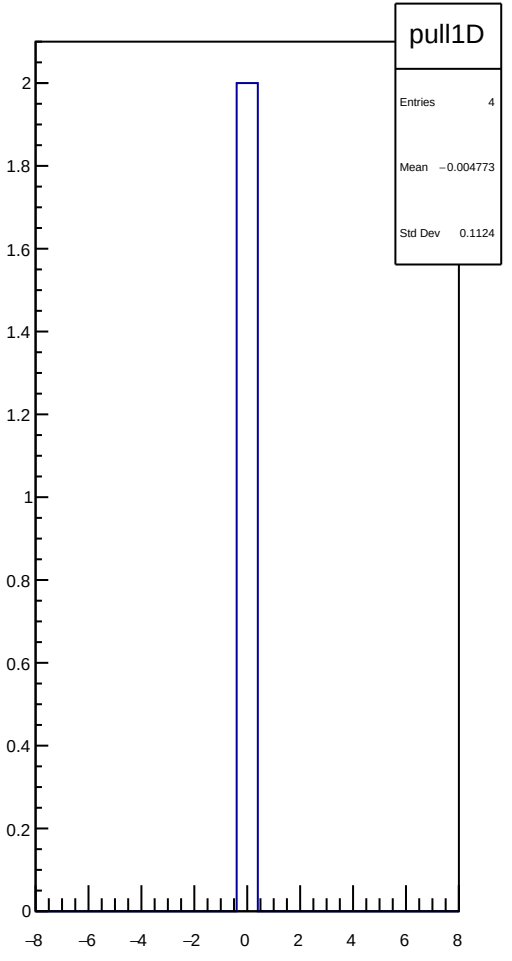

pull1D
Entries 4
Mean −0.001241
Std Dev 0.08127
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

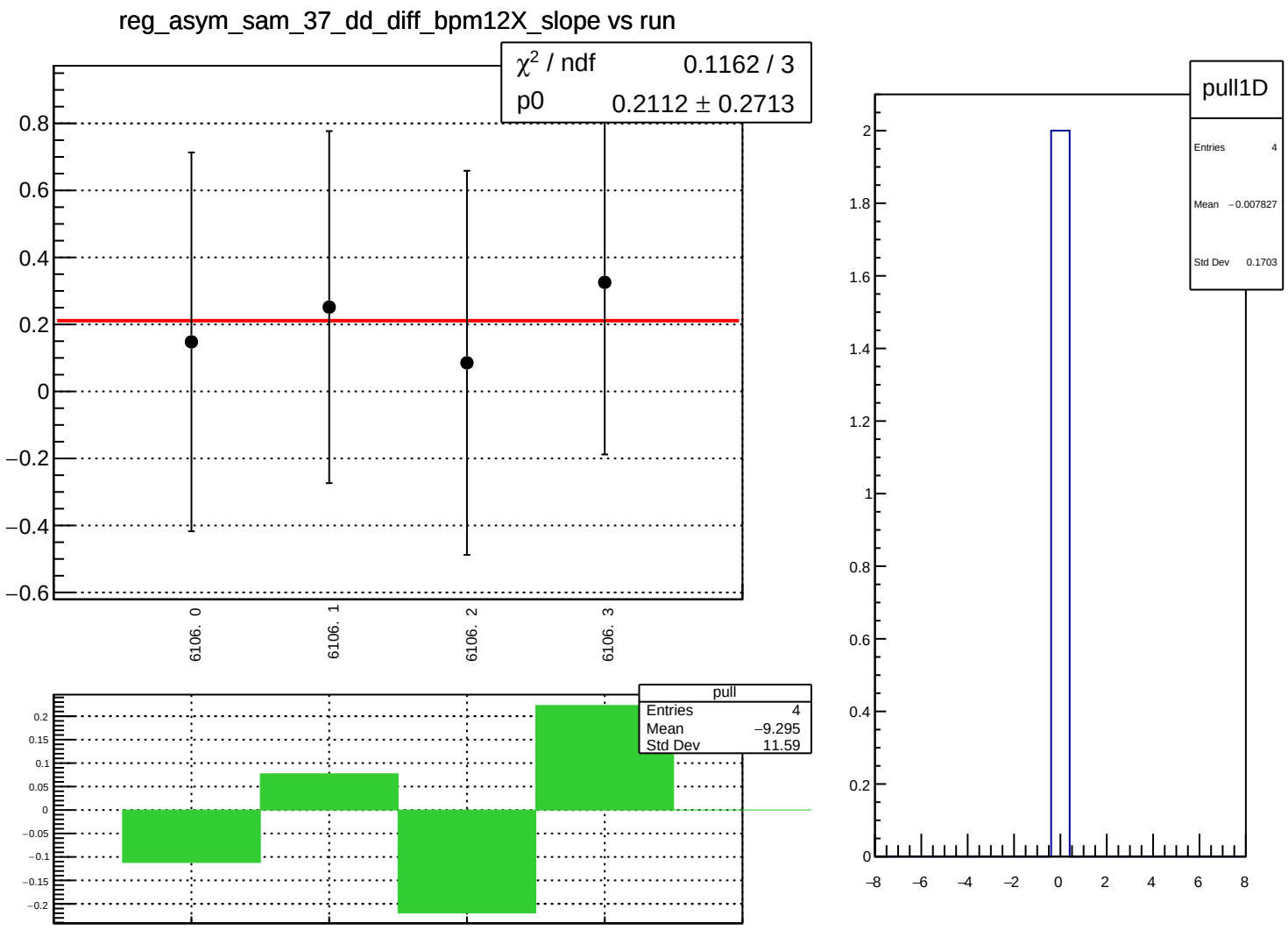

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.03735 / 3
p0 −8.727 ± 3.573
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.49
Std Dev 18.88
0.15
0.1
0.05
0
−0.05
pull1D
Entries 4
Mean 0.003404
Std Dev 0.09658
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

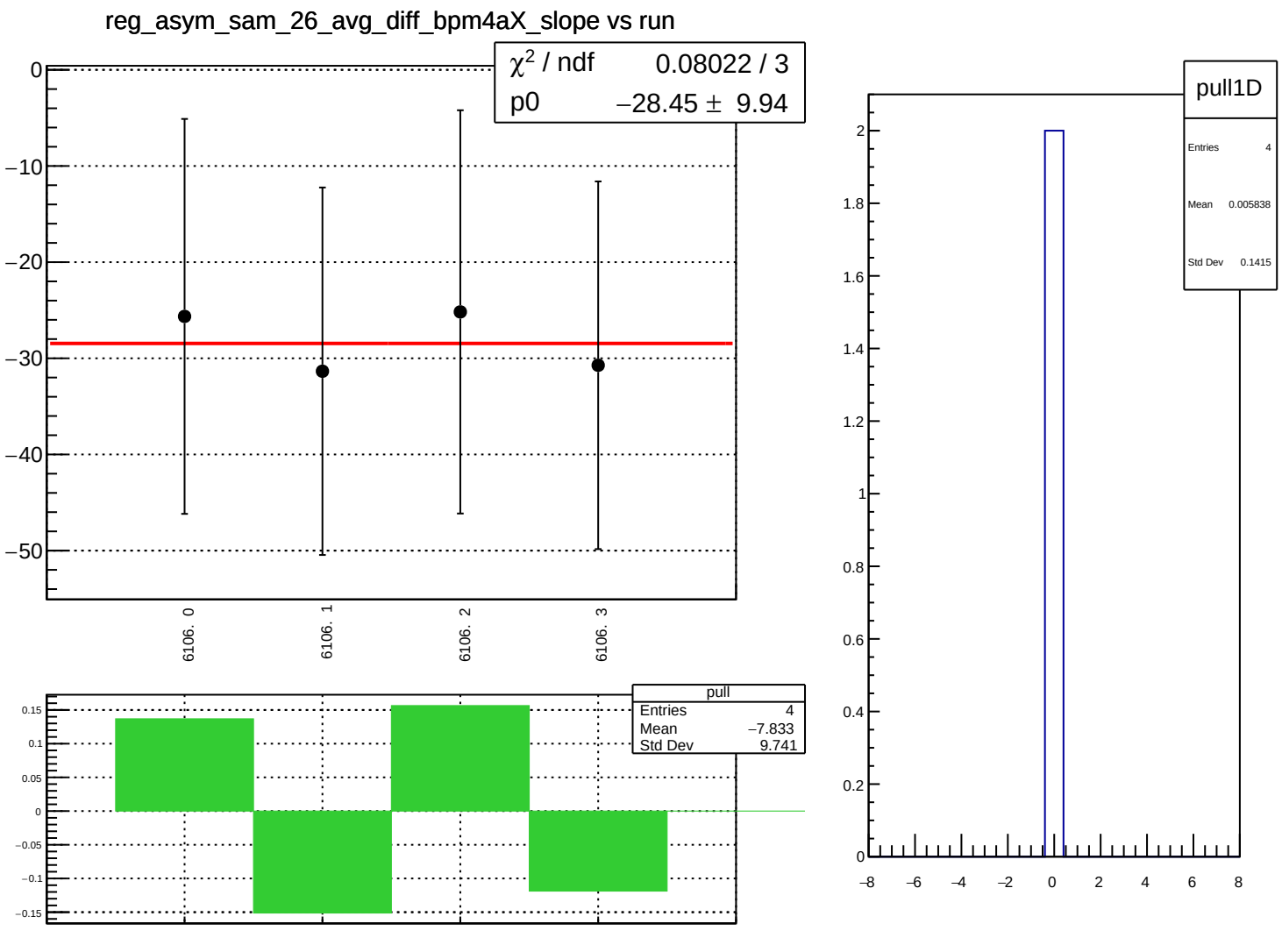

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.02956 / 3
p0 4.804 ± 6.518
20
15
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 3.714
Std Dev 4.855
0.15
0.1
0.05
0
−0.05

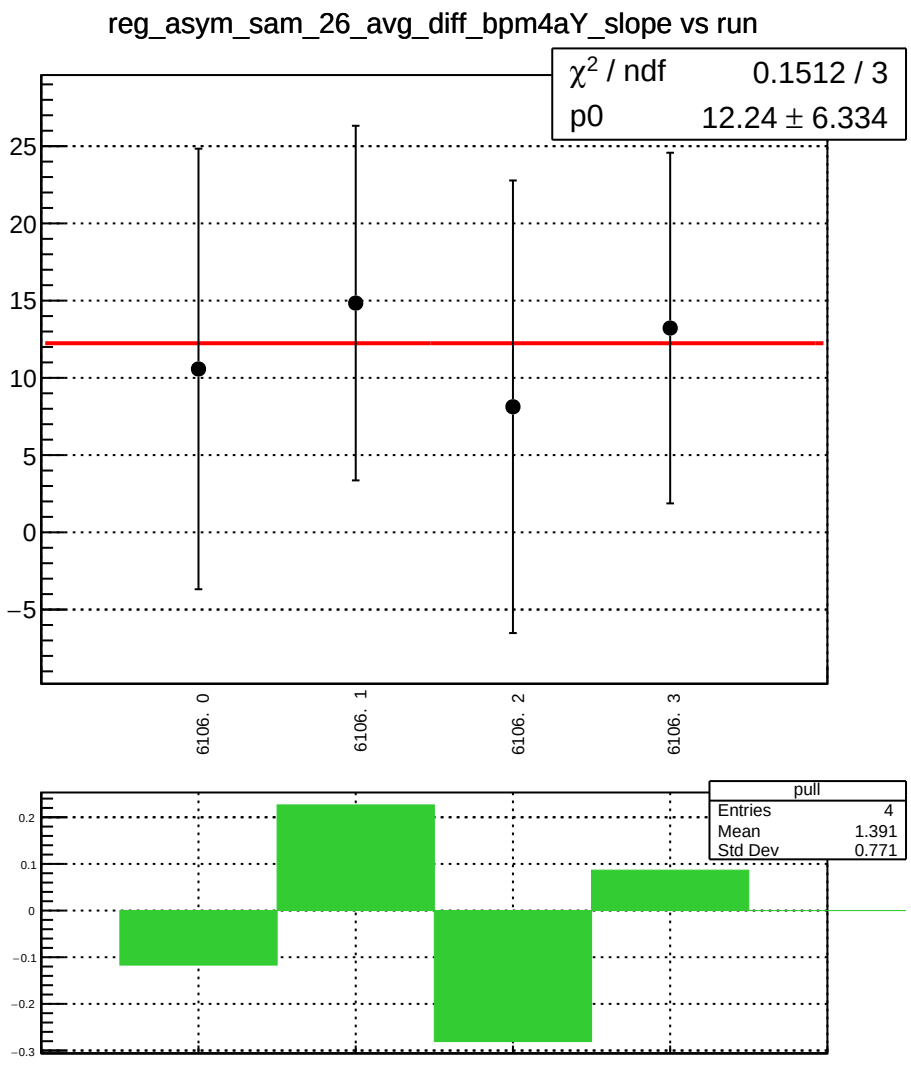

pull1D
Entries 4
Mean 0.002682
Std Dev 0.08592
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

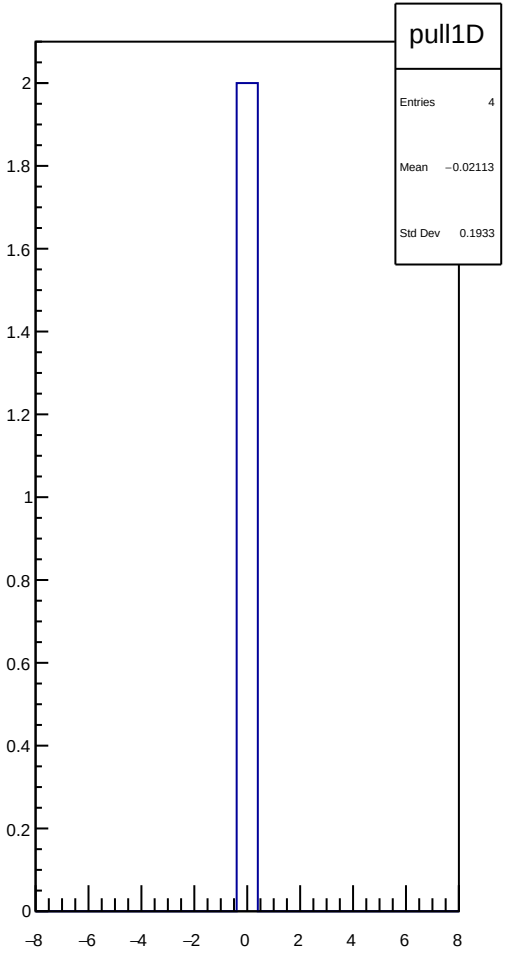

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.05065 / 3
p0 22.52 ± 3.793
32
30
28
26
24
22
20
18
16
14
12
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −10.37
Std Dev 11.54
0.1
0.05
0
−0.05
−0.1
−0.15

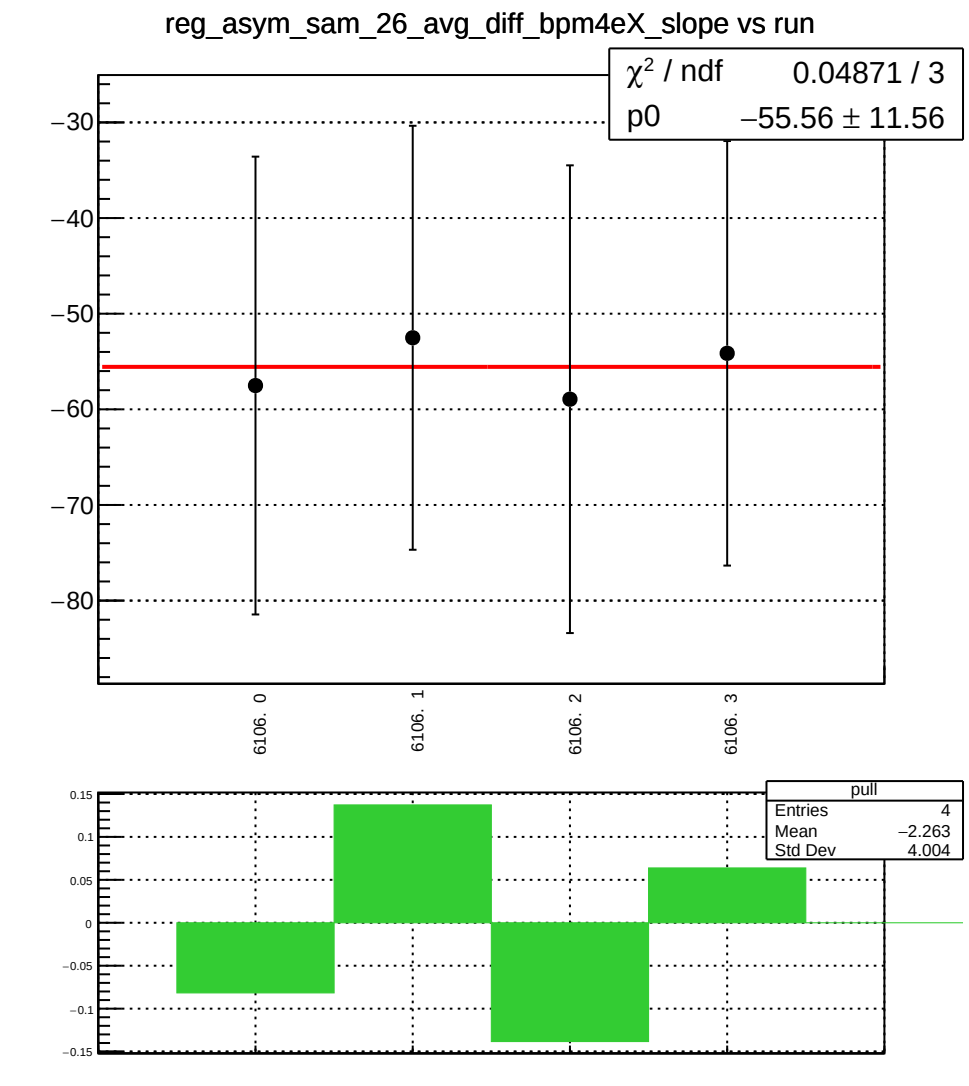

pull1D
Entries 4
Mean −0.004773
Std Dev 0.1124
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

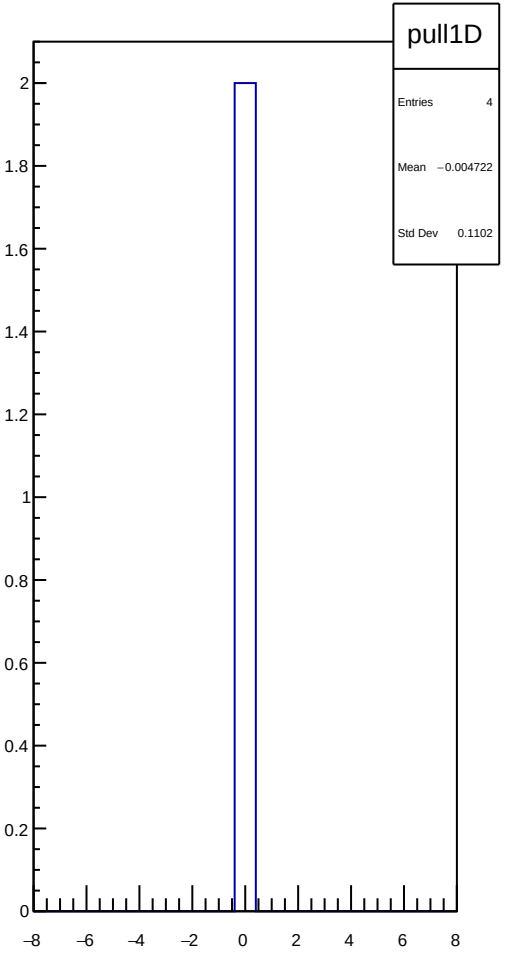

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1162 / 3
p0 0.2112 ± 0.2713
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −9.295
Std Dev 11.59
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 4
Mean −0.007827
Std Dev 0.1703
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

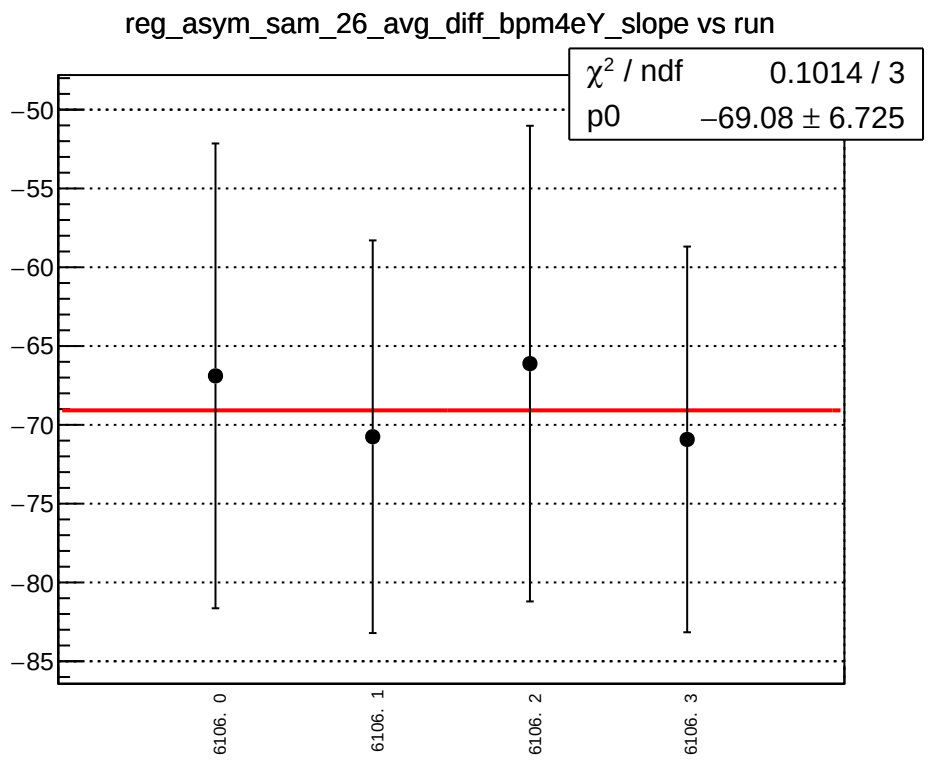

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.08022 / 3
p0 −28.45 ± 9.94
0
−10
−20
−30
−40
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −7.833
Std Dev 9.741
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.005838
Std Dev 0.1415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

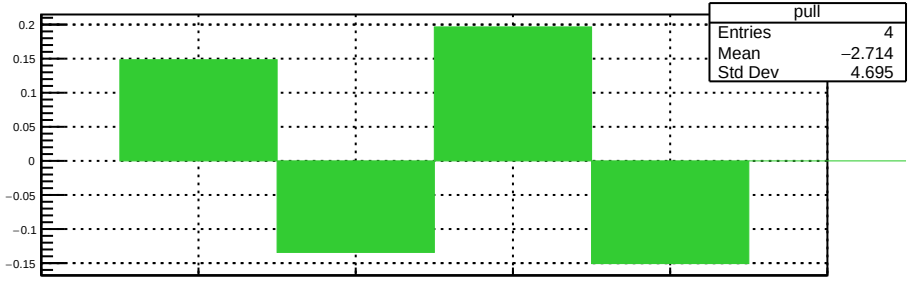

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.1512 / 3
p0 12.24 ± 6.334
25
20
15
10
5
0
−5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 1.391
Std Dev 0.771
0.2
0.1
0
−0.1
−0.2
−0.3

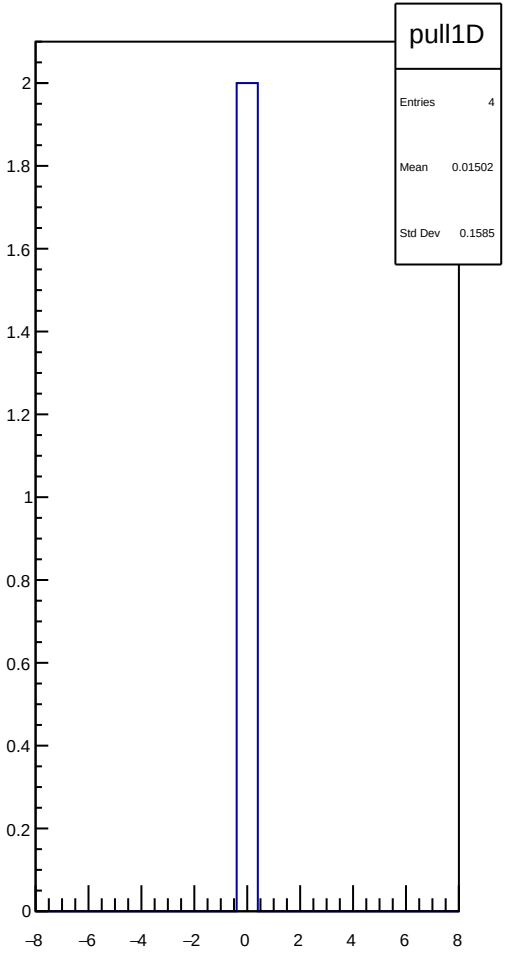

pull1D
Entries 4
Mean −0.02113
Std Dev 0.1933
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

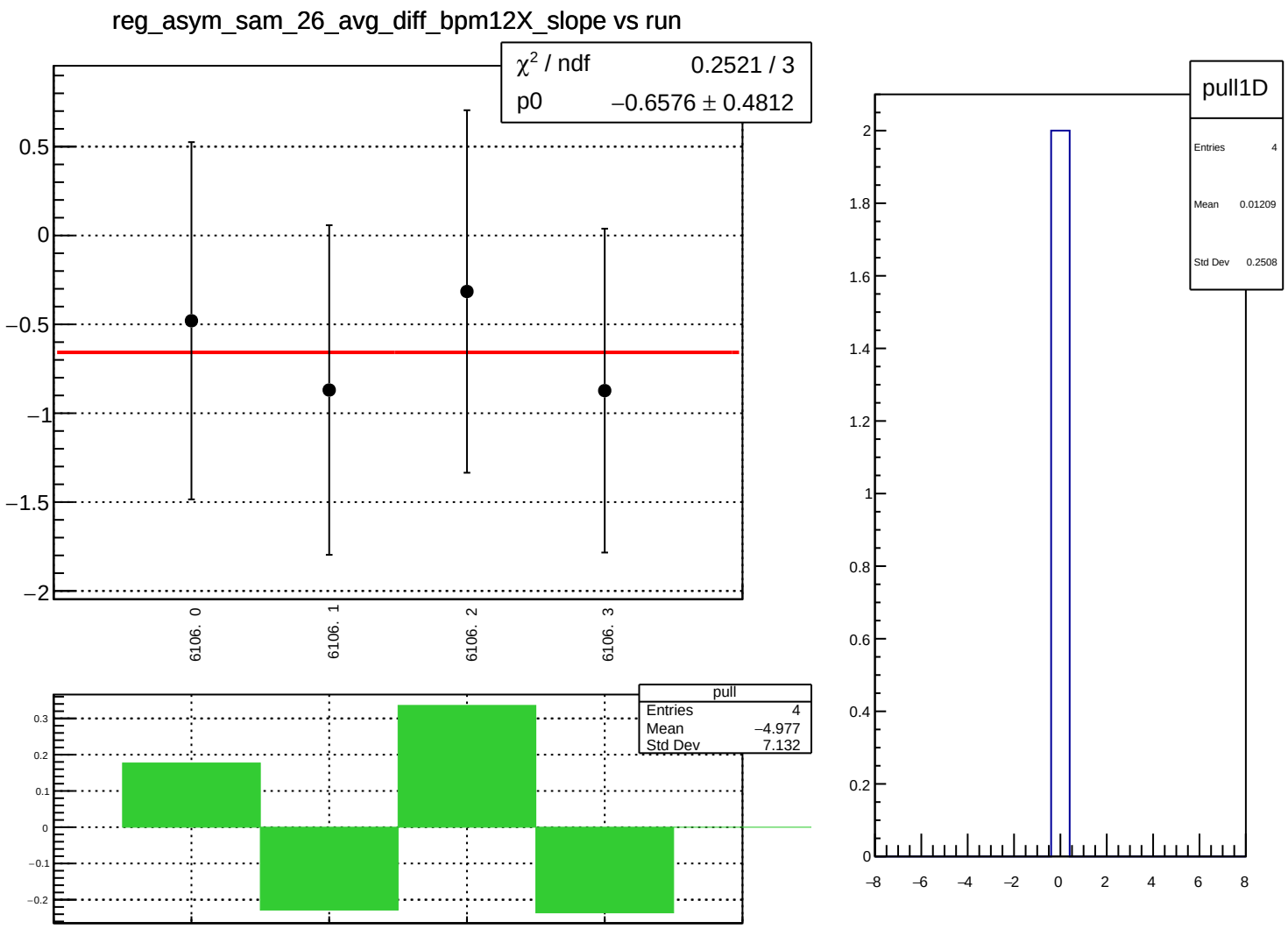

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.04871 / 3
p0 −55.56 ± 11.56
−30
−40
−50
−60
−70
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.263
Std Dev 4.004
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

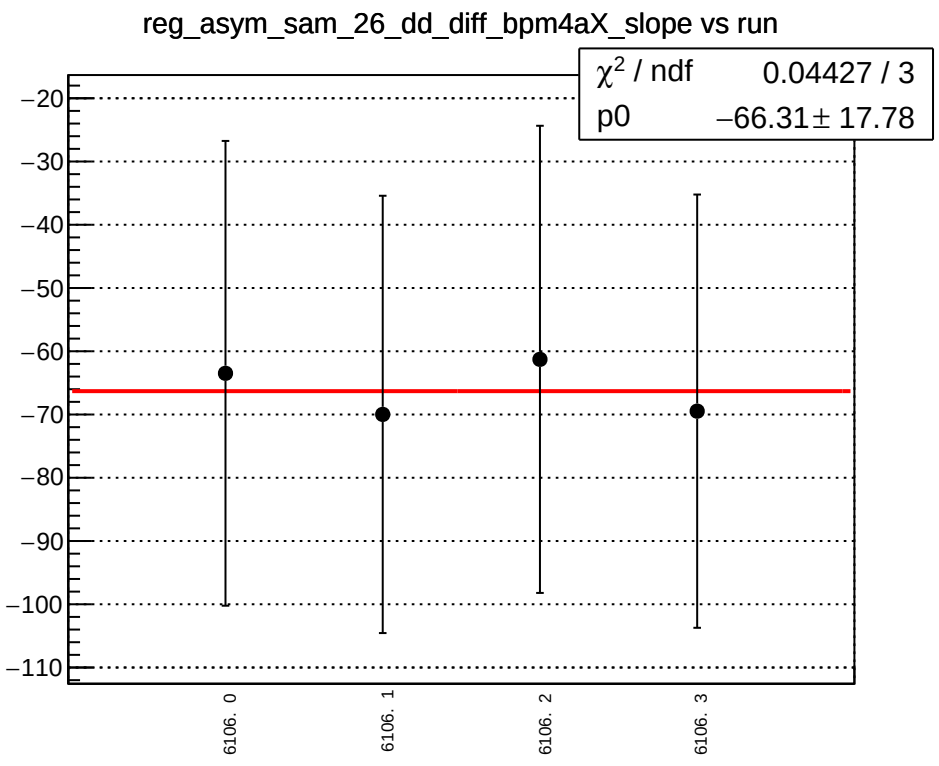

pull1D
Entries 4
Mean −0.004722
Std Dev 0.1102
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

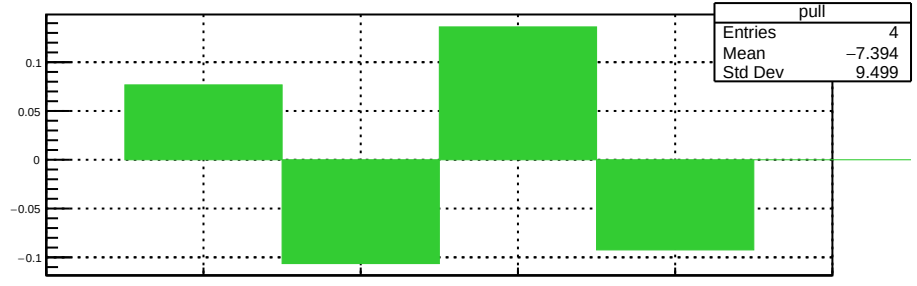

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.1014 / 3
p0 −69.08 ± 6.725
−50
−55
−60
−65
−70
−75
−80
−85
6106. 0
6106. 1
6106. 2
6106. 3

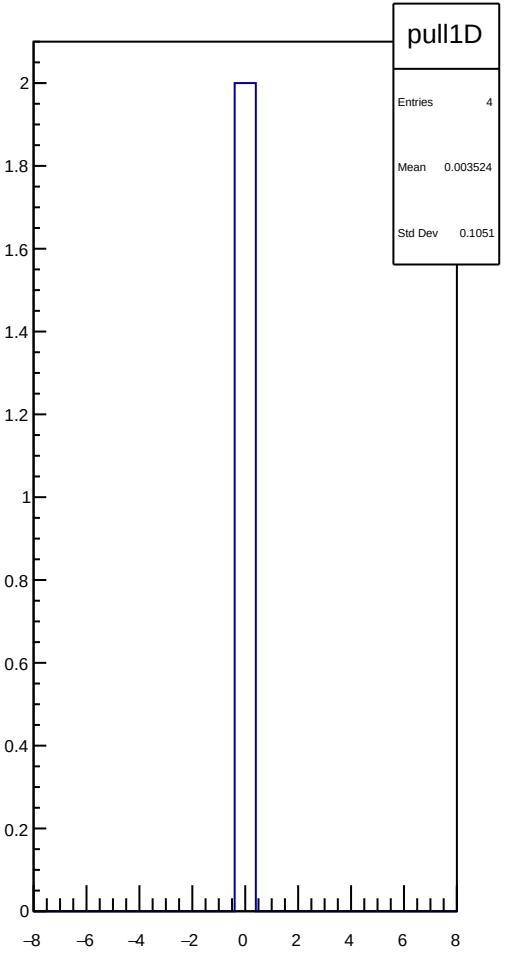

pull
Entries 4
Mean −2.714
Std Dev 4.695
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

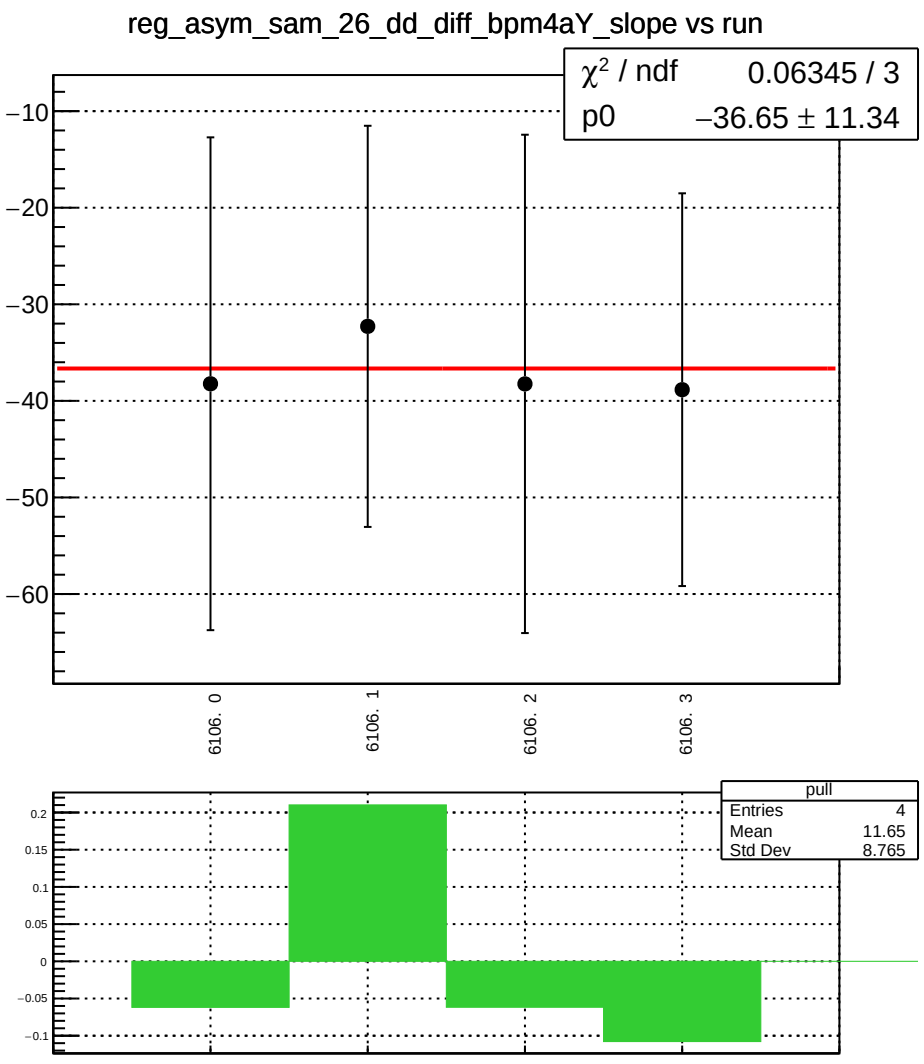

pull1D
Entries 4
Mean 0.01502
Std Dev 0.1585
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

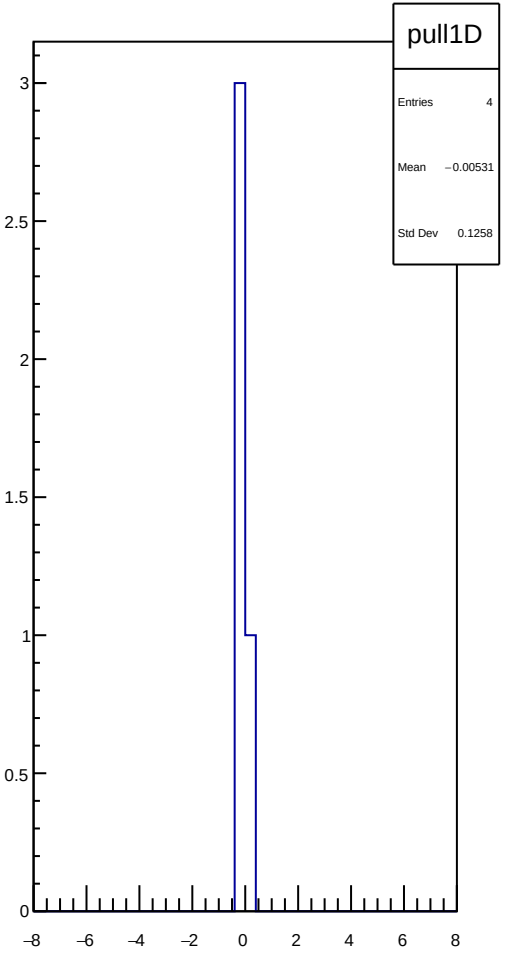

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 0.2521 / 3
p0 −0.6576 ± 0.4812
0.5
0
−0.5
−1
−1.5
−2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.977
Std Dev 7.132
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.01209
Std Dev 0.2508
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

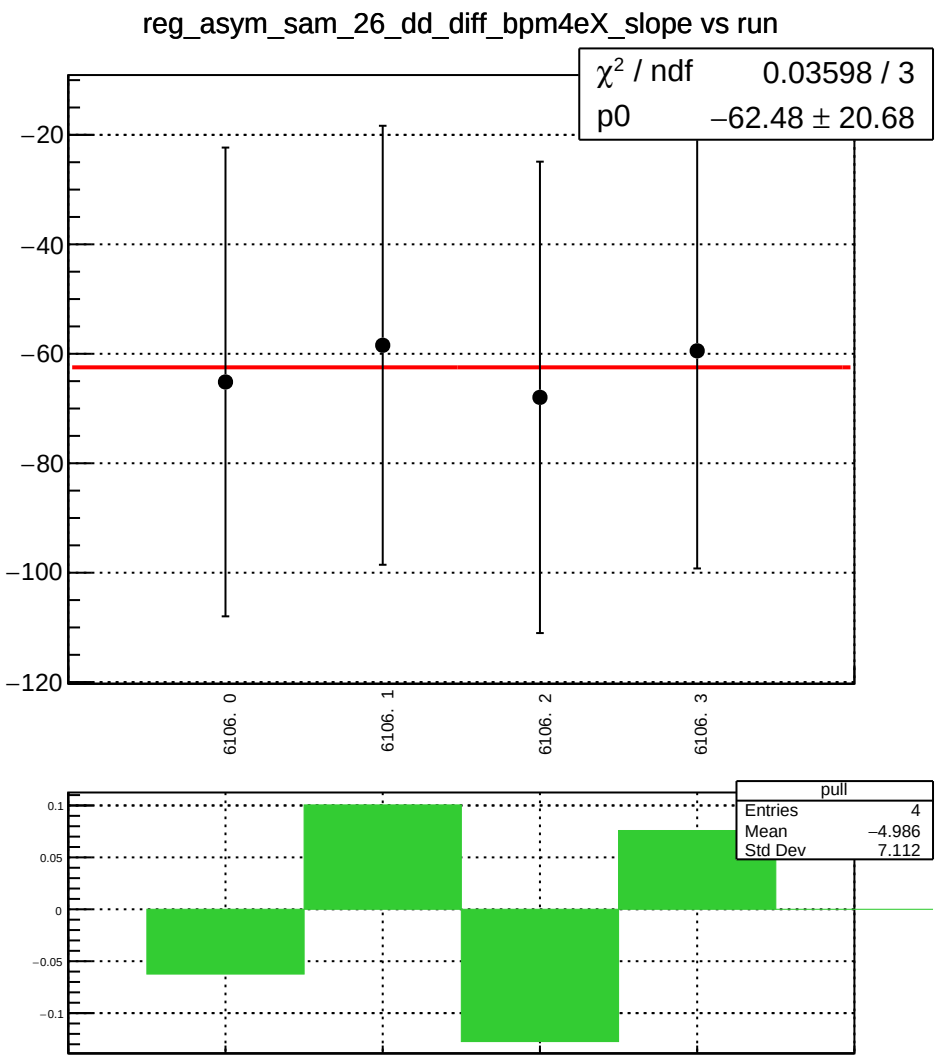

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.04427 / 3
p0 −66.31 ± 17.78
−20
−30
−40
−50
−60
−70
−80
−90
−100
−110
6106. 0
6106. 1
6106. 2
6106. 3

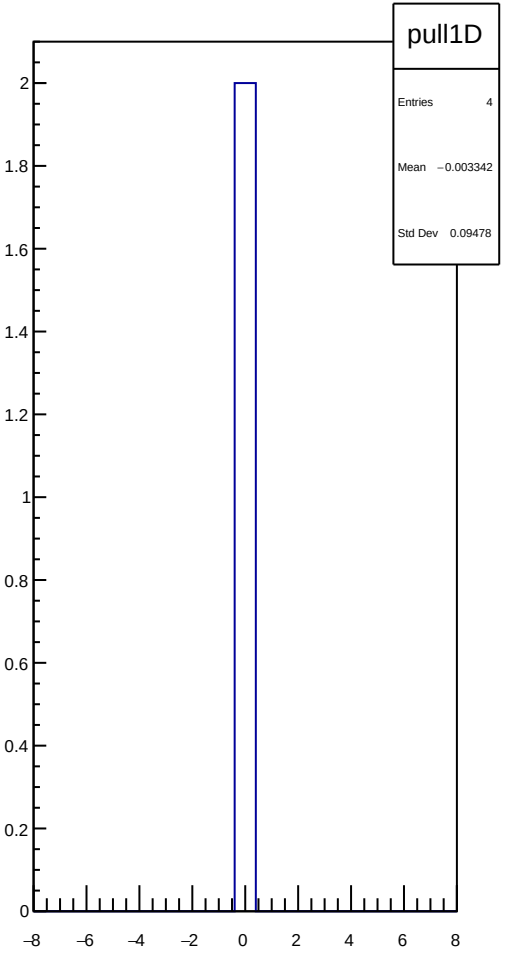

pull
Entries 4
Mean −7.394
Std Dev 9.499
0.1
0.05
0
−0.05
−0.1

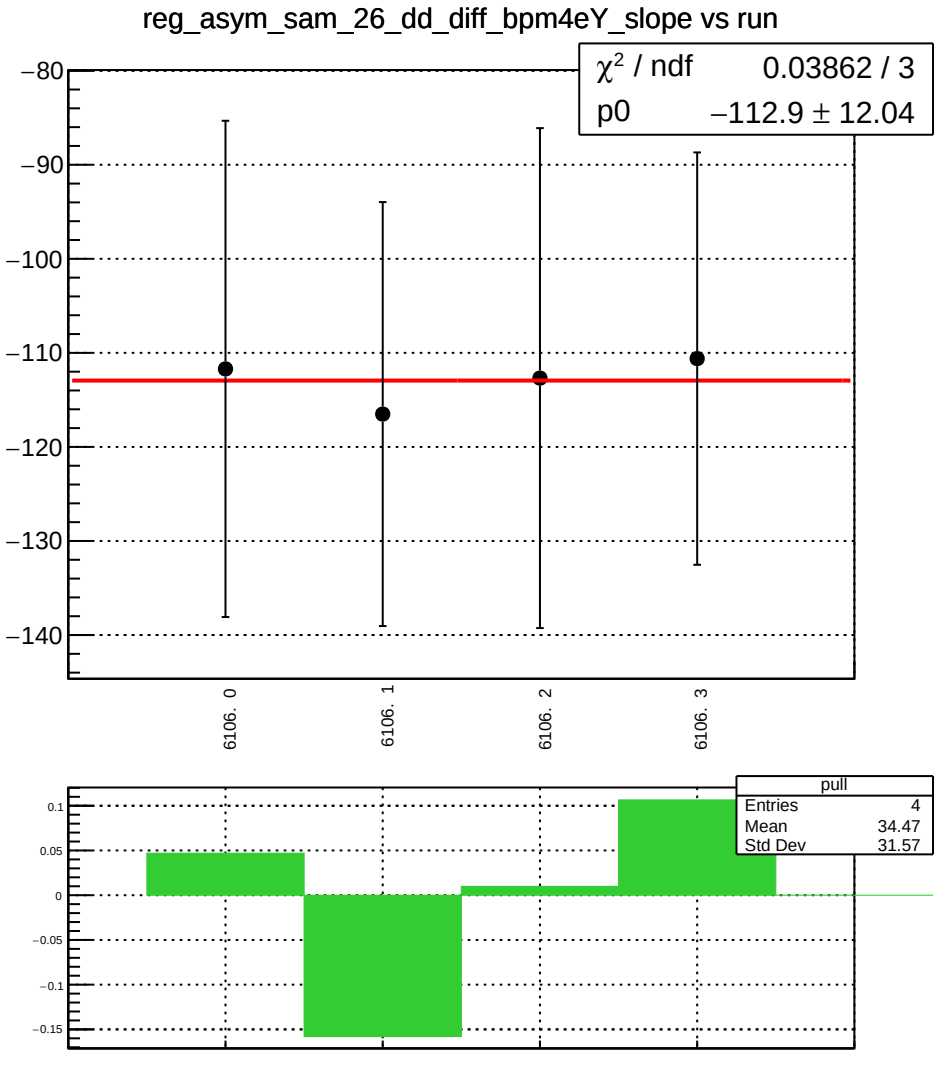

pull1D
Entries 4
Mean 0.003524
Std Dev 0.1051
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

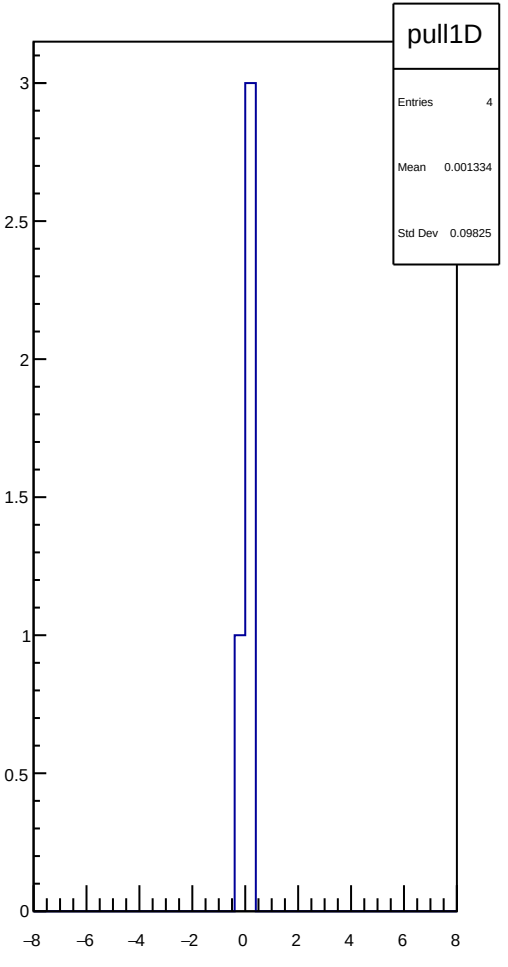

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.06345 / 3
p0 −36.65 ± 11.34
−10
−20
−30
−40
−50
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 11.65
Std Dev 8.765
0.2
0.15
0.1
0.05
0
−0.05
−0.1

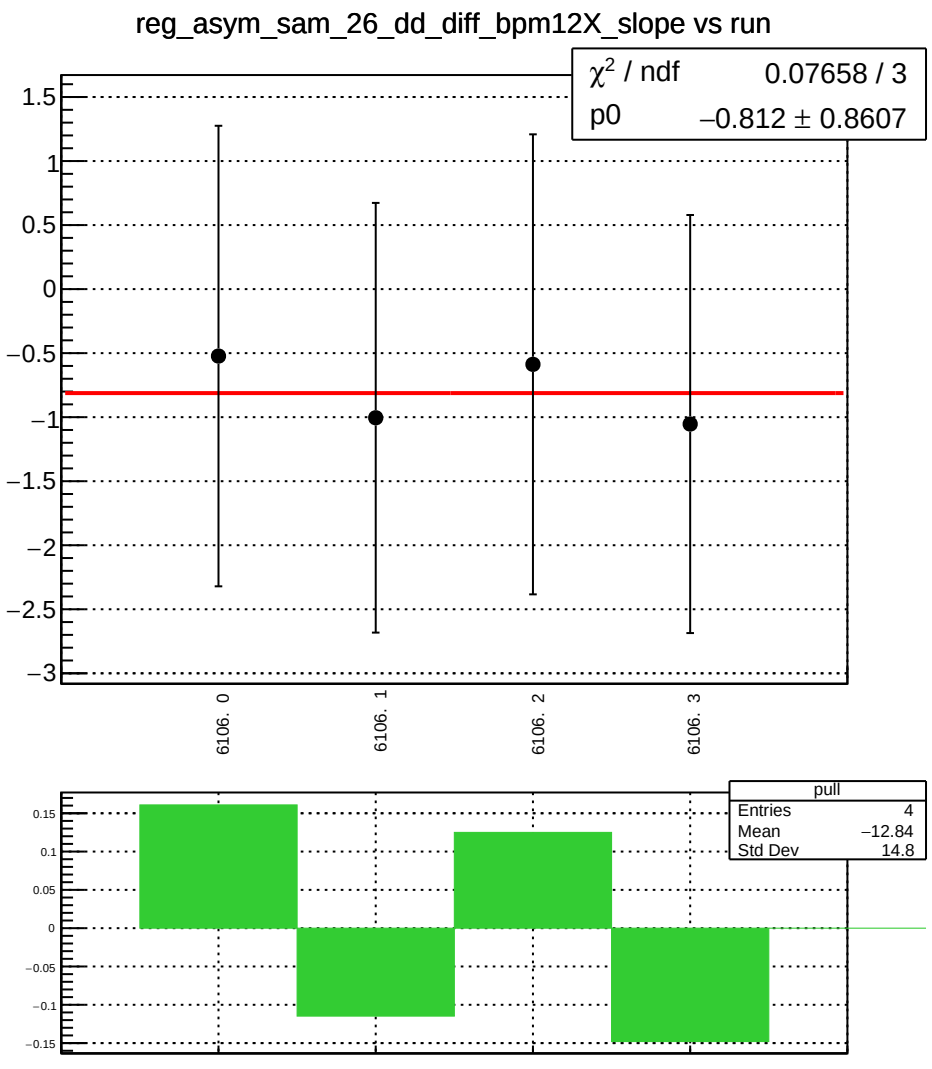

pull1D
Entries 4
Mean −0.00531
Std Dev 0.1258
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

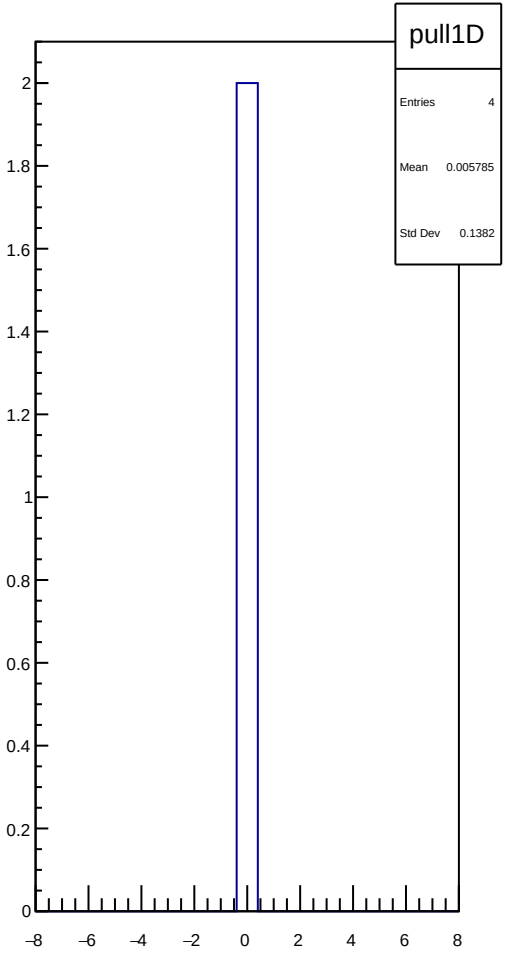

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.03598 / 3
p0 −62.48 ± 20.68
−20
−40
−60
−80
−100
−120
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.986
Std Dev 7.112
0.1
0.05
0
−0.05
−0.1

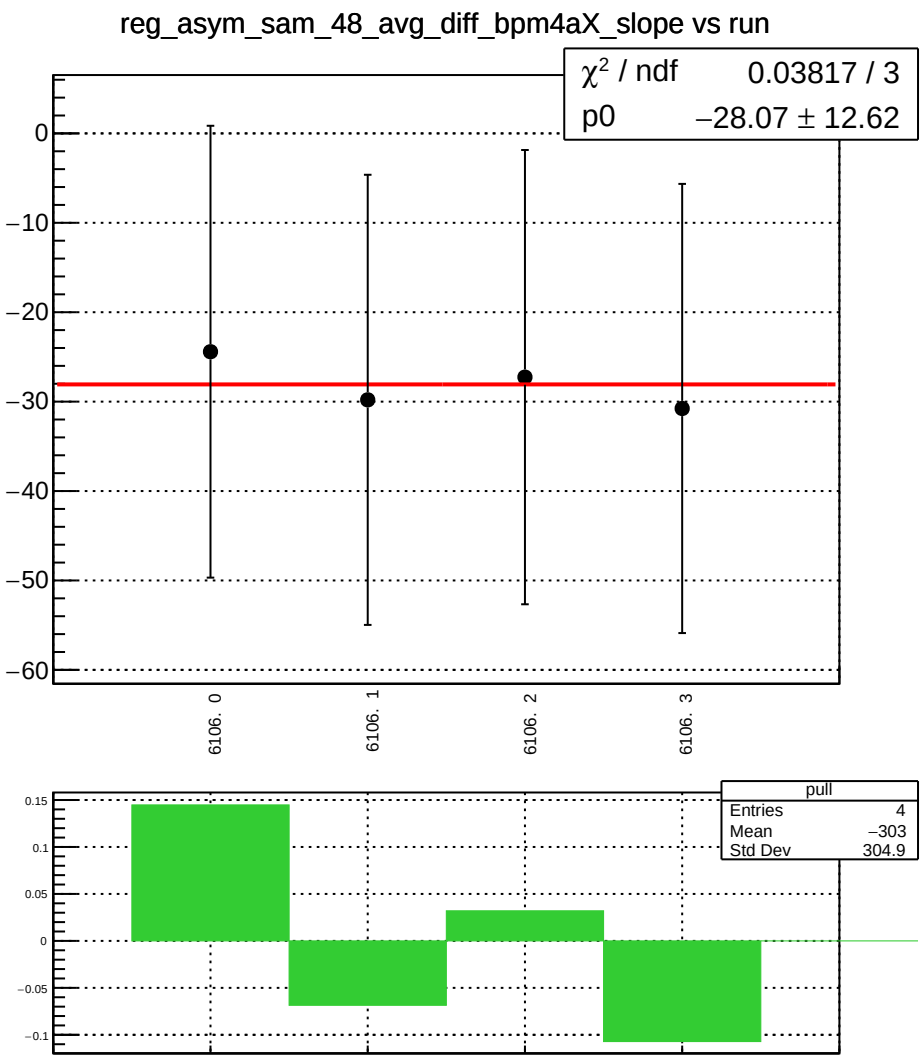

pull1D
Entries 4
Mean −0.003342
Std Dev 0.09478
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

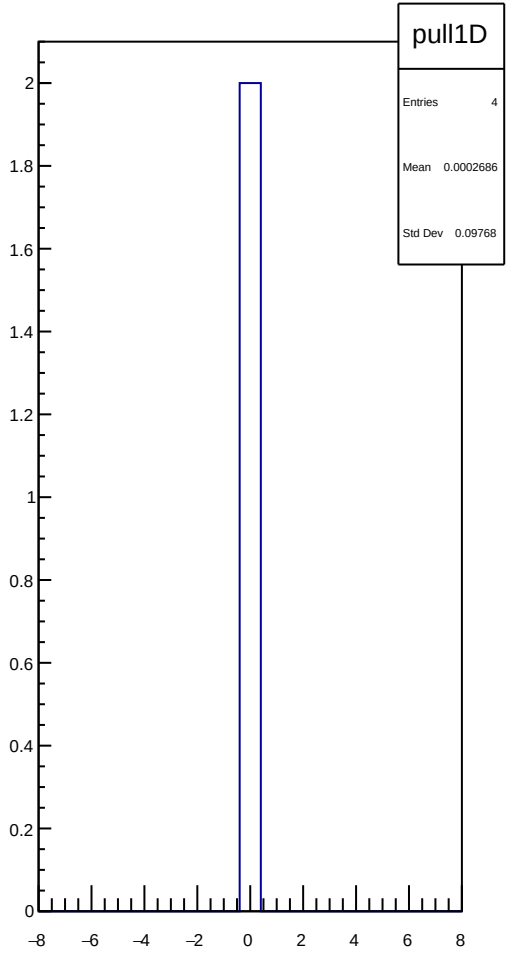

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.03862 / 3
p0 −112.9 ± 12.04
−80
−90
−100
−110
−120
−130
−140
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 34.47
Std Dev 31.57
0.1
0.05
0
−0.05
−0.1
−0.15

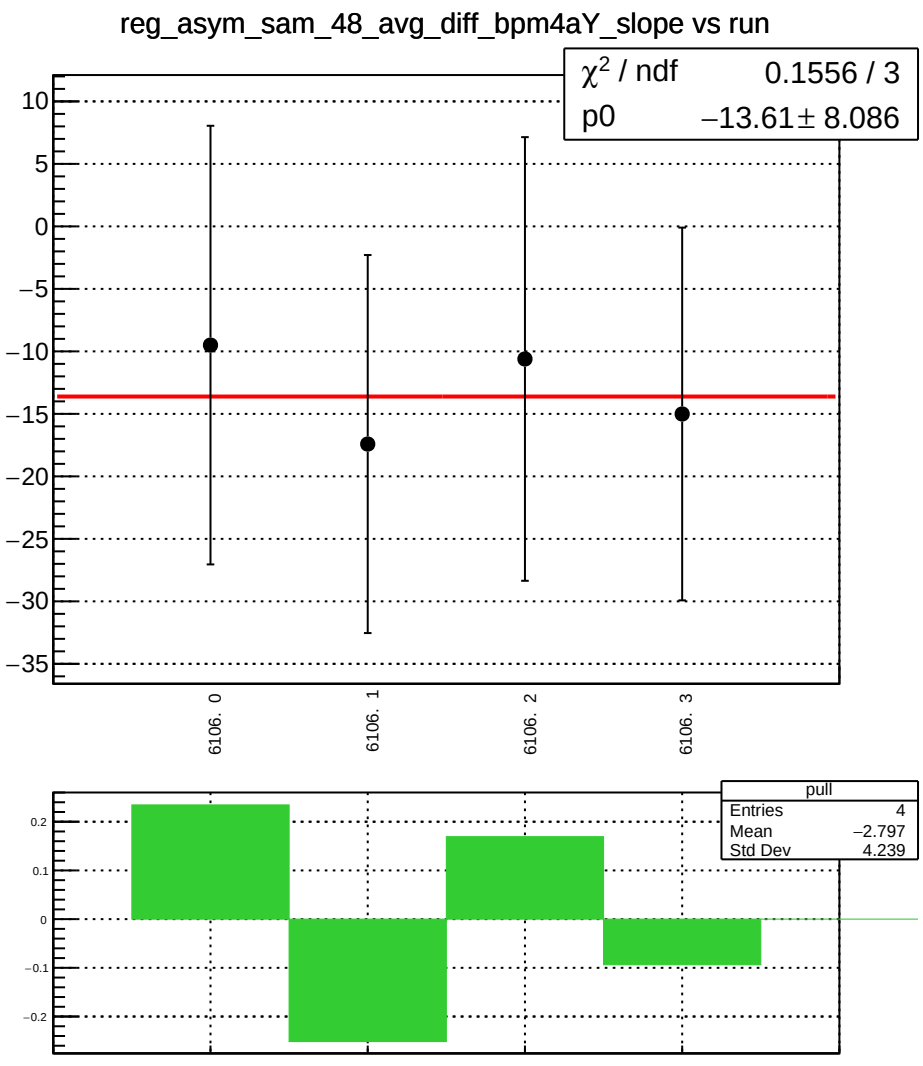

pull1D
Entries 4
Mean 0.001334
Std Dev 0.09825
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

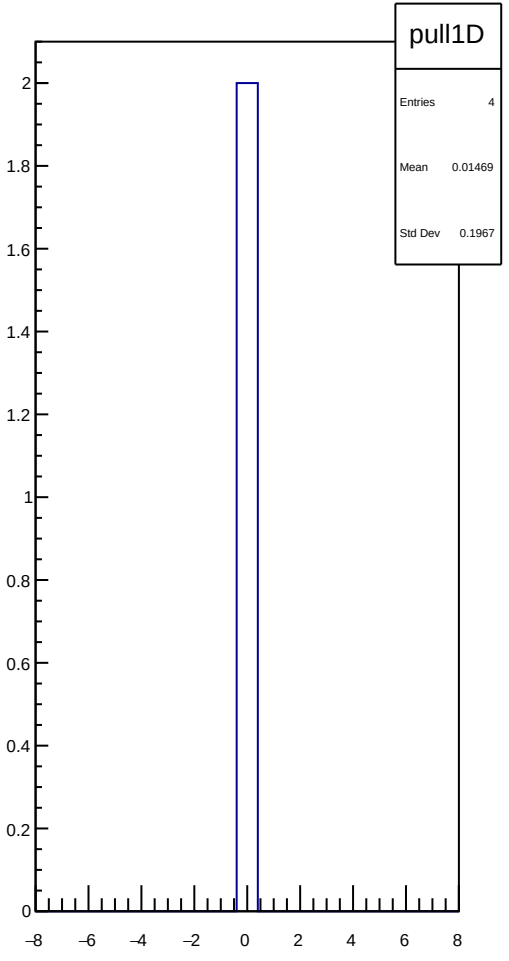

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.07658 / 3
p0 −0.812 ± 0.8607
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −12.84
Std Dev 14.8
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

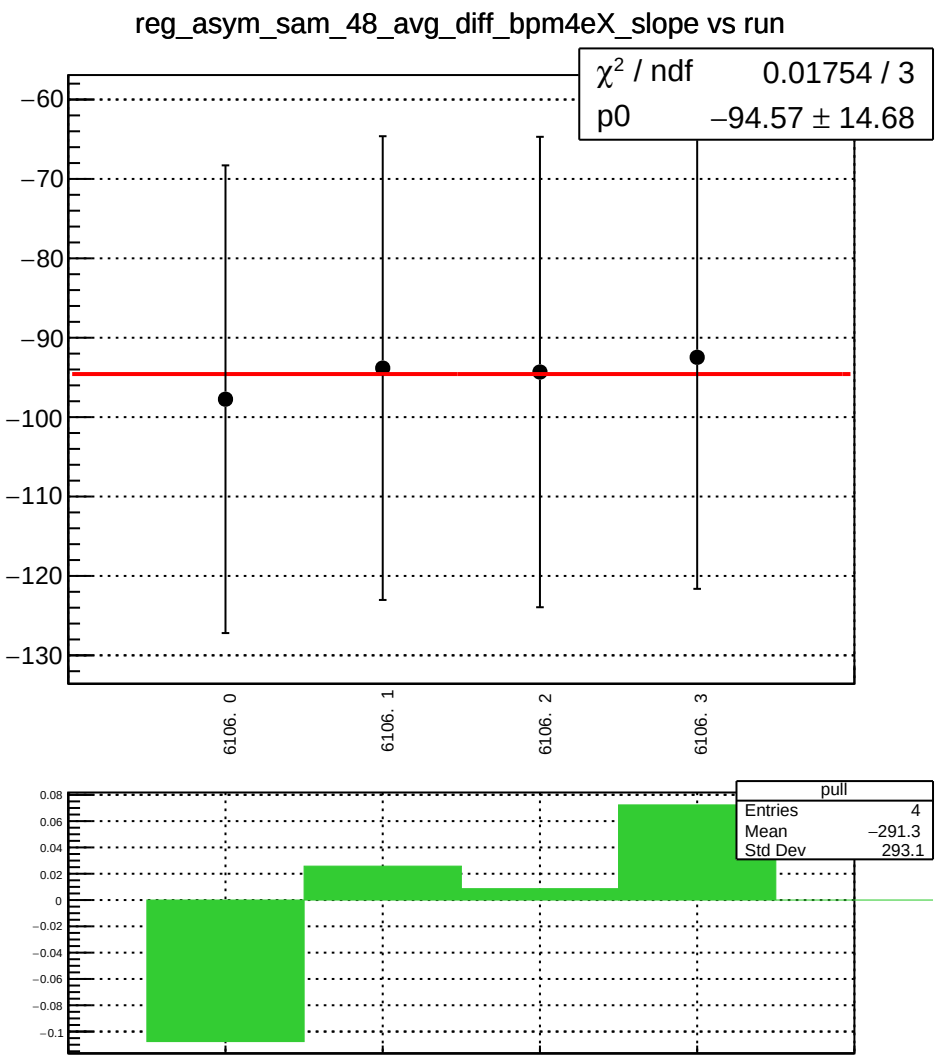

pull1D
Entries 4
Mean 0.005785
Std Dev 0.1382
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

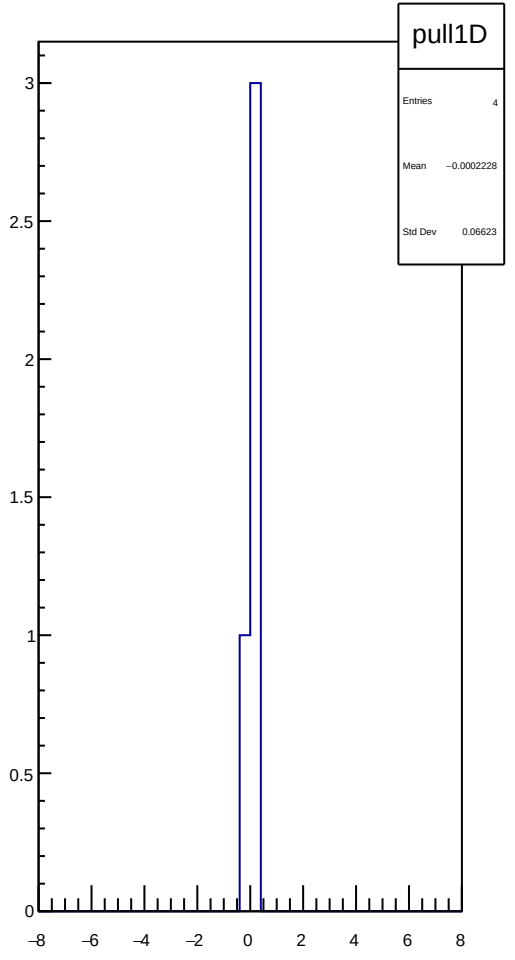

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.03817 / 3
p0 −28.07 ± 12.62
0
−10
−20
−30
−40
−50
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −303
Std Dev 304.9
0.15
0.1
0.05
0
−0.05
−0.1

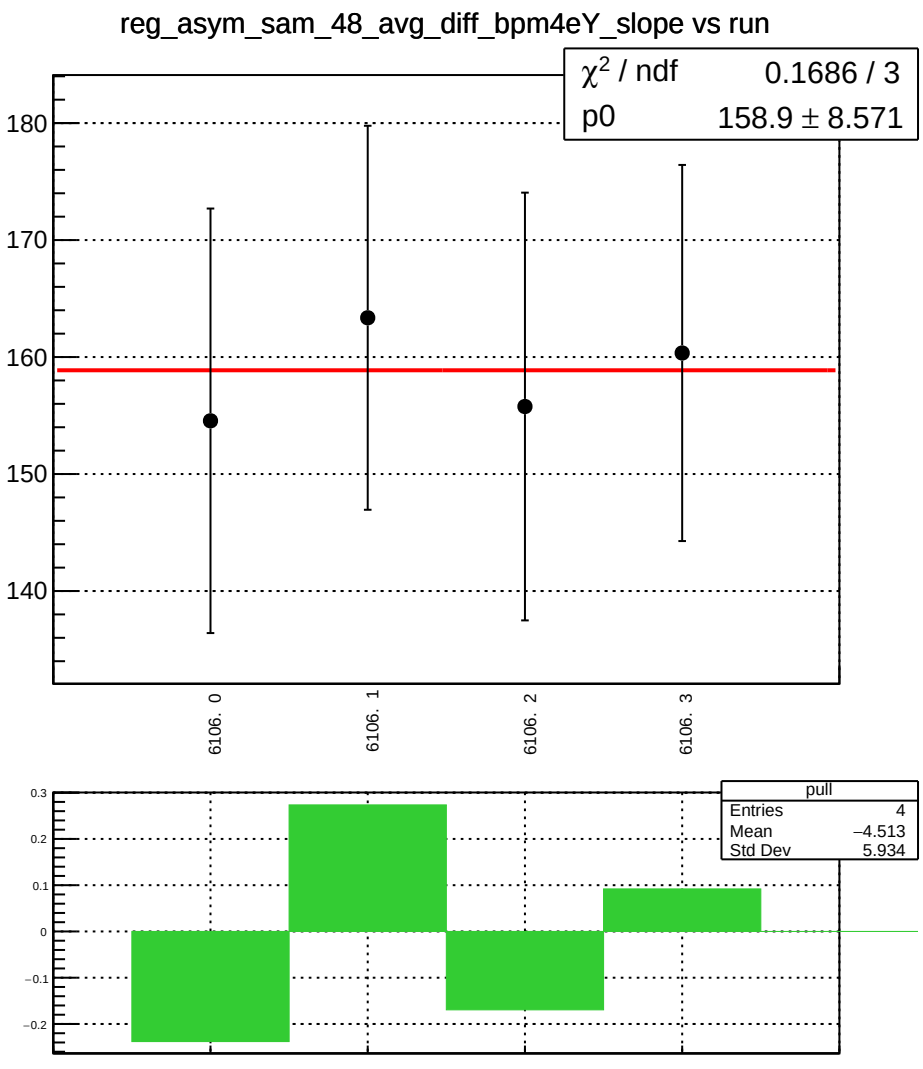

pull1D
Entries 4
Mean 0.0002686
Std Dev 0.09768
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

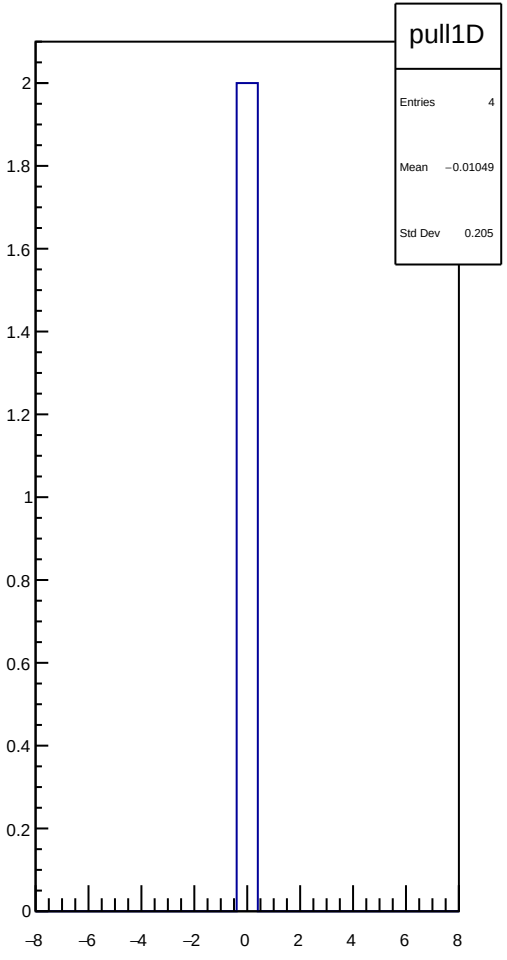

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.1556 / 3
p0 −13.61 ± 8.086
10
5
0
−5
−10
−15
−20
−25
−30
−35
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.797
Std Dev 4.239
0.2
0.1
0
−0.1
−0.2

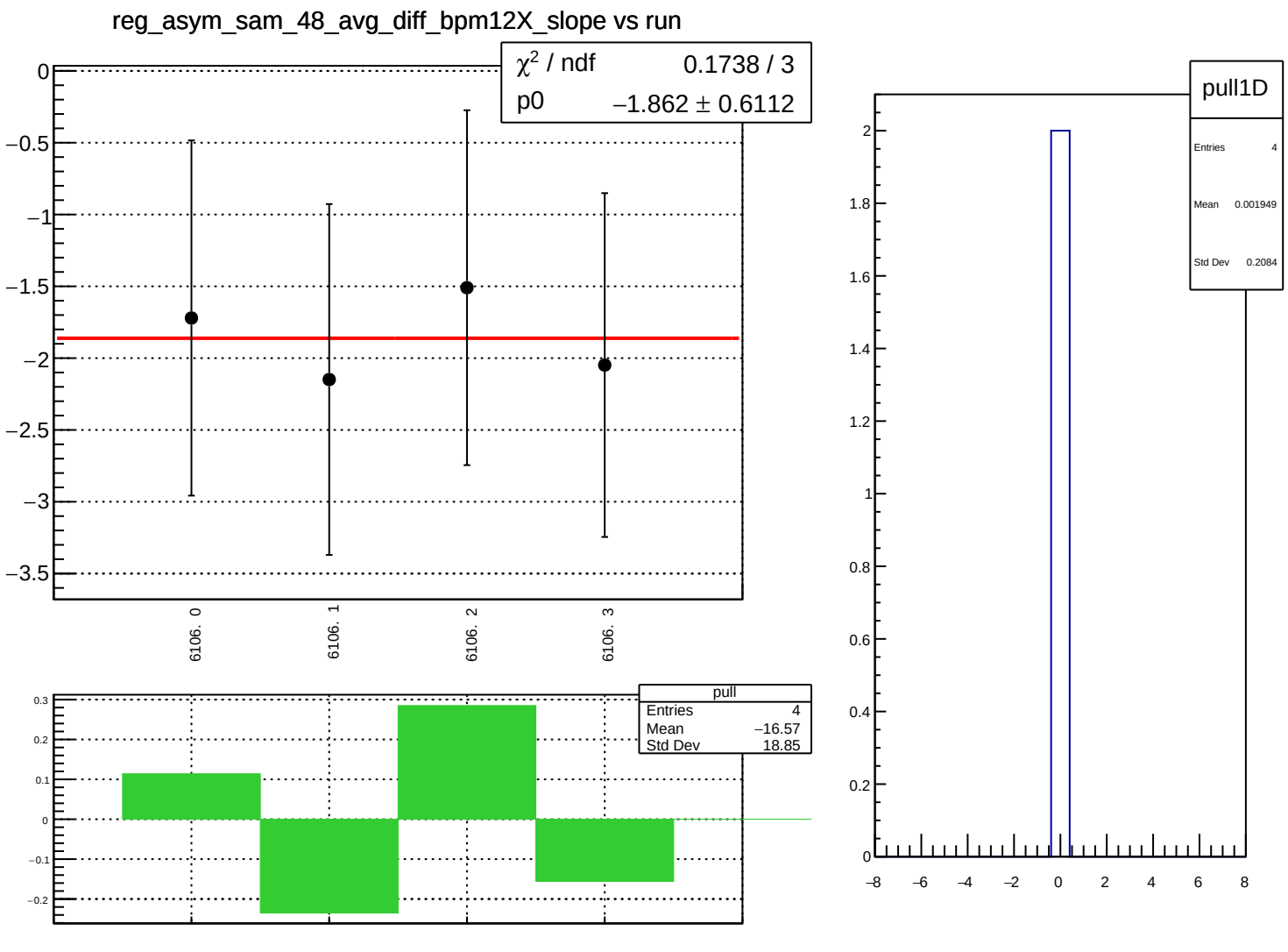

pull1D
Entries 4
Mean 0.01469
Std Dev 0.1967
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

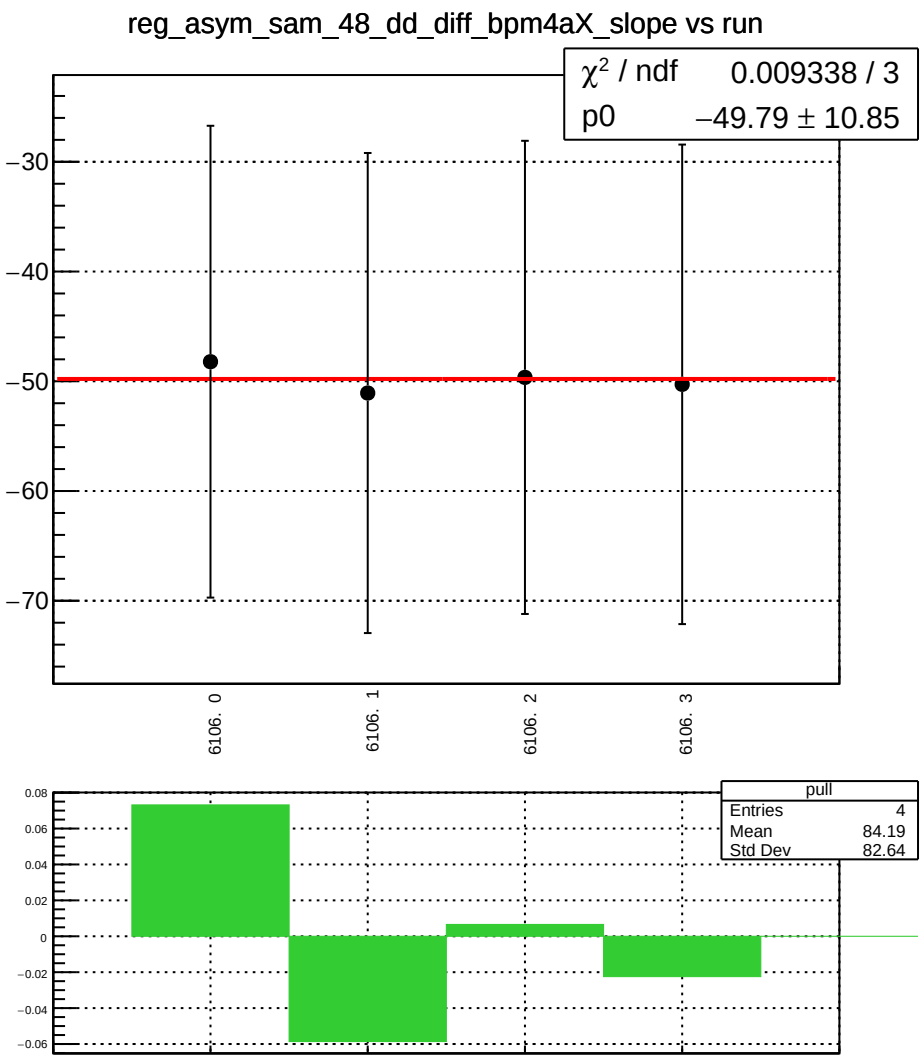

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.01754 / 3
p0 −94.57 ± 14.68
−60
−70
−80
−90
−100
−110
−120
−130
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −291.3
Std Dev 293.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1

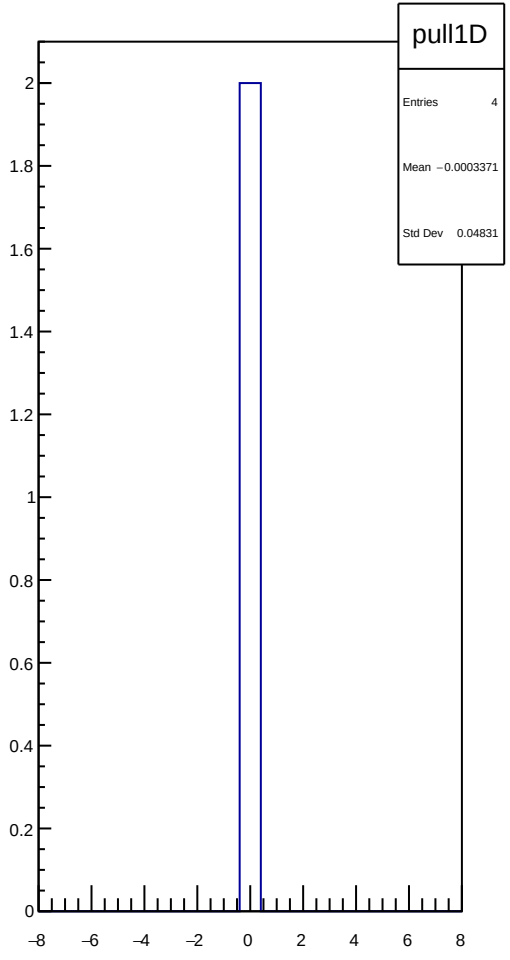

pull1D
Entries 4
Mean −0.0002228
Std Dev 0.06623
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

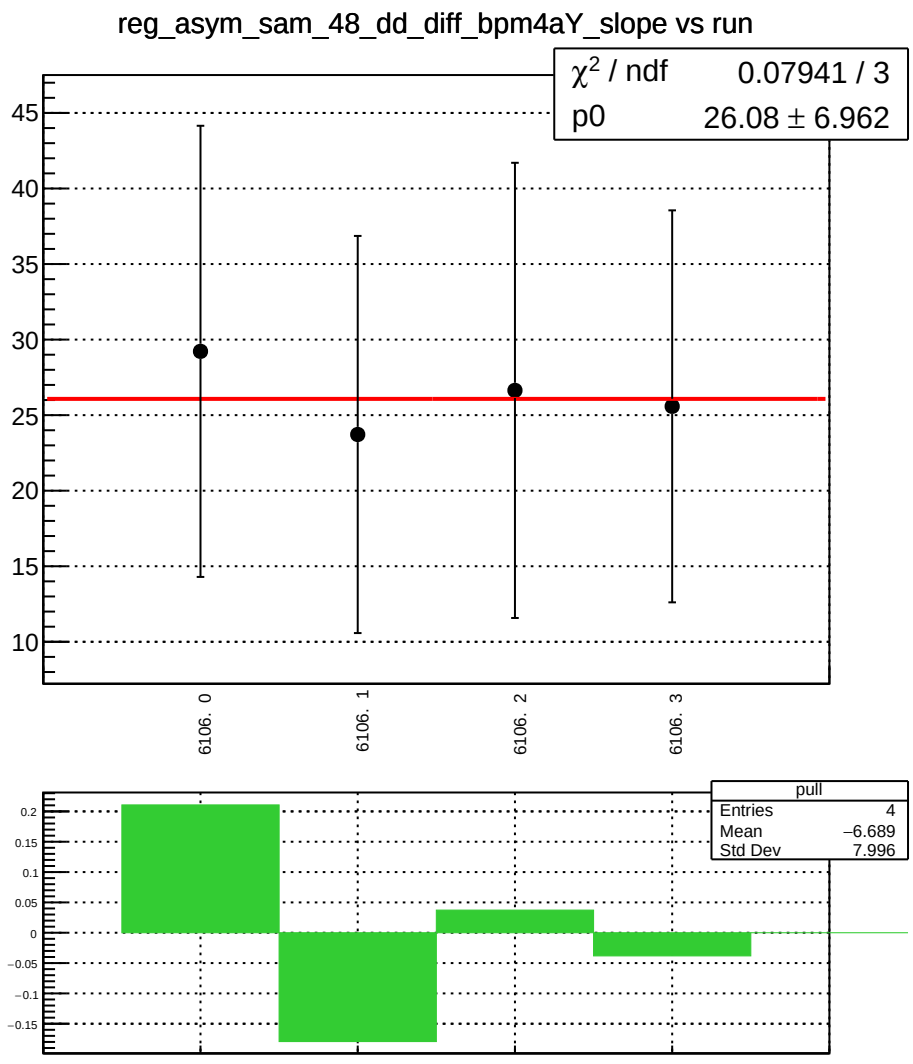

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.1686 / 3
p0 158.9 ± 8.571
180
170
160
150
140
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.513
Std Dev 5.934
0.3
0.2
0.1
0
−0.1
−0.2

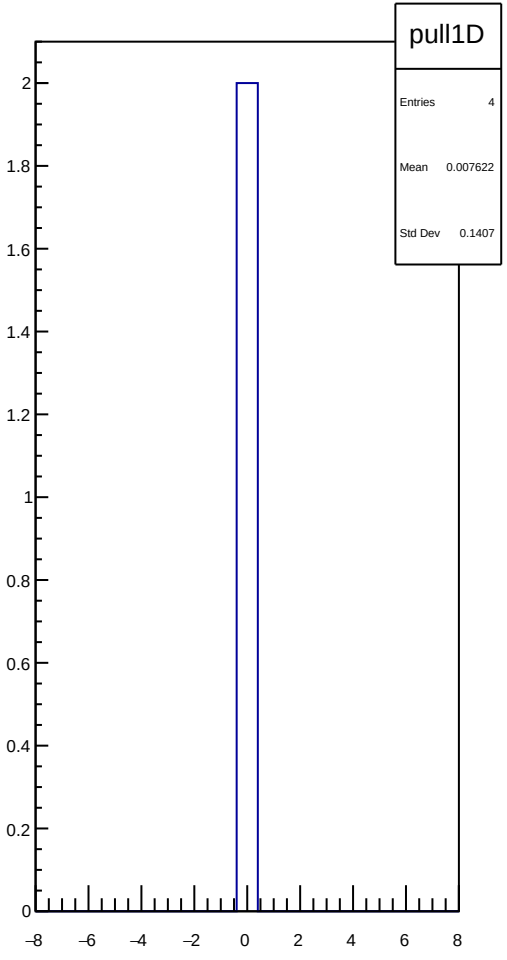

pull1D
Entries 4
Mean −0.01049
Std Dev 0.205
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

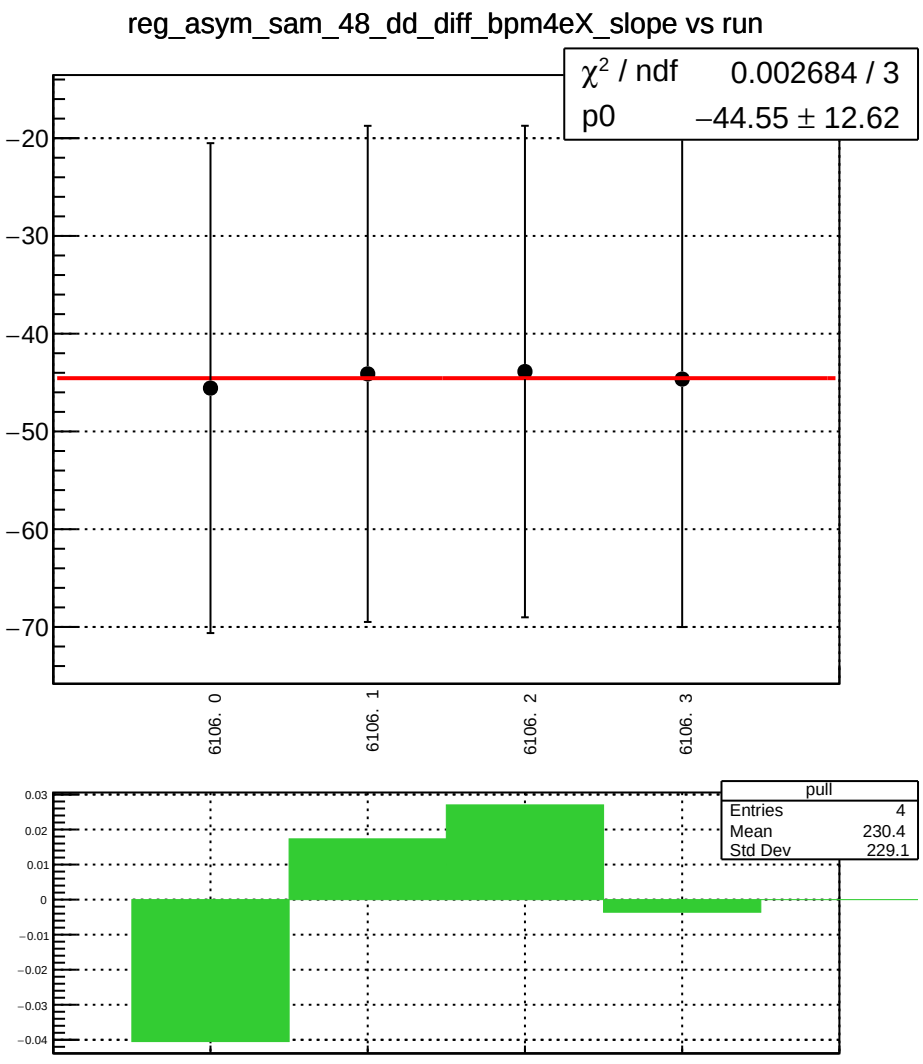

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.1738 / 3
p0 −1.862 ± 0.6112
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −16.57
Std Dev 18.85
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.001949
Std Dev 0.2084
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

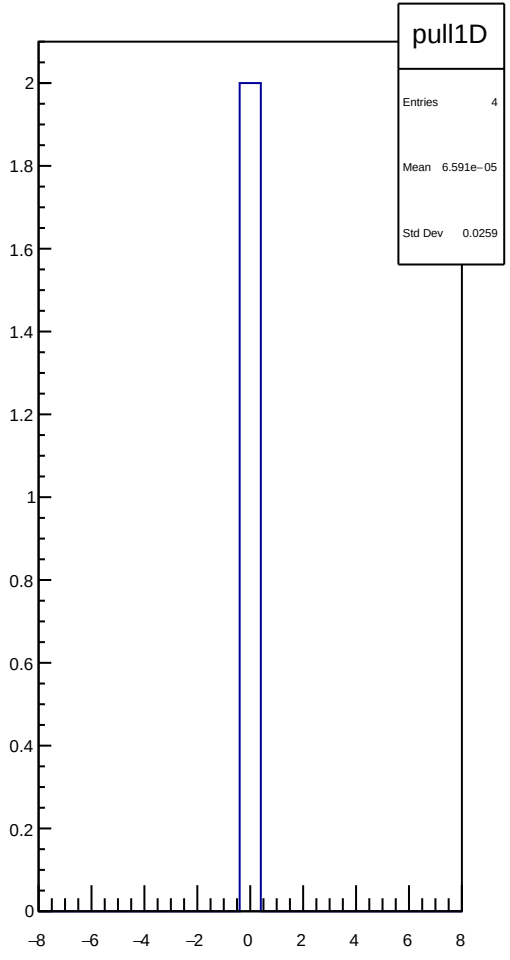

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.009338 / 3
p0 −49.79 ± 10.85
−30
−40
−50
−60
−70
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 84.19
Std Dev 82.64
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

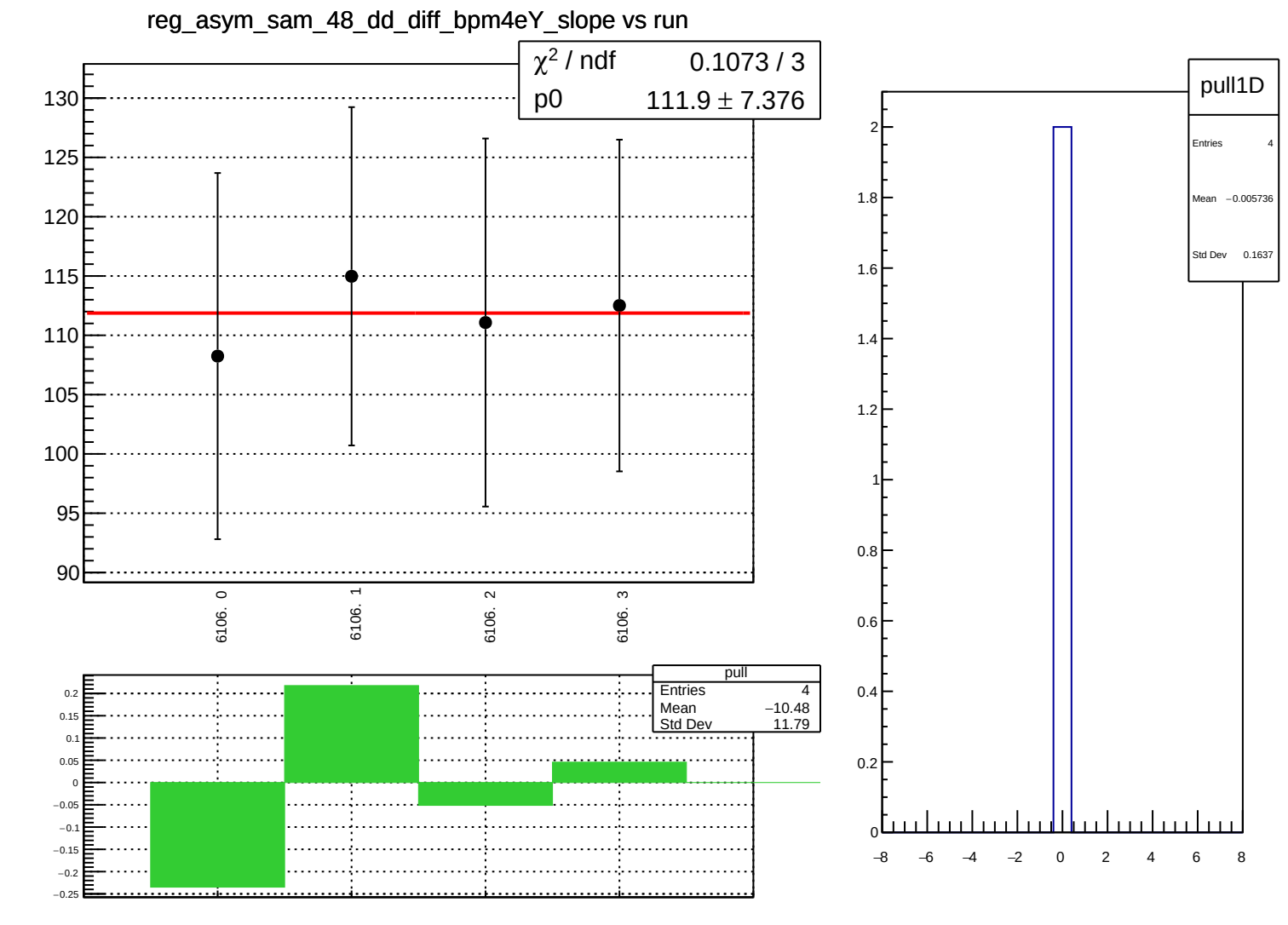

pull1D
Entries 4
Mean −0.0003371
Std Dev 0.04831
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

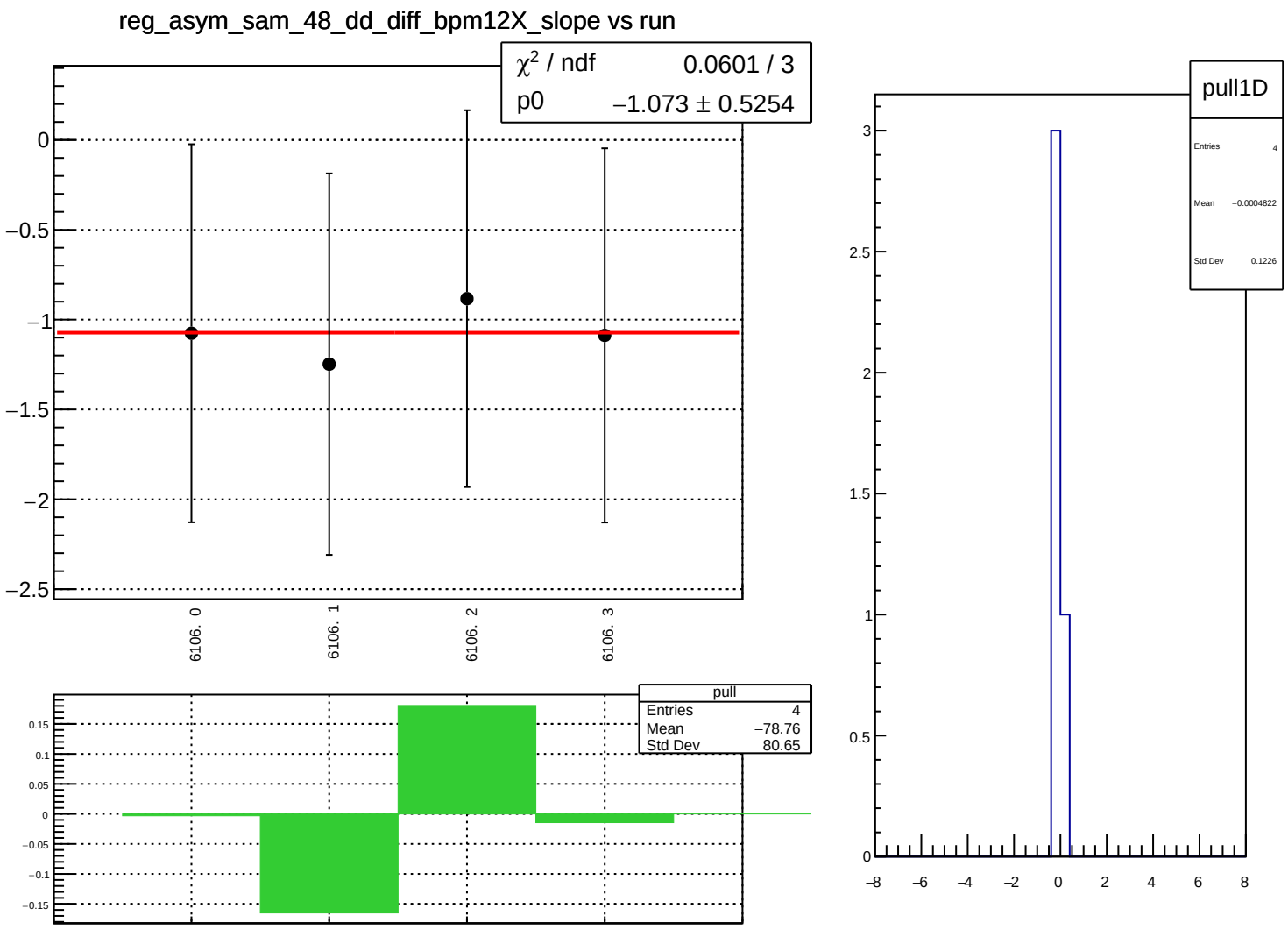

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.07941 / 3
p0 26.08 ± 6.962
45
40
35
30
25
20
15
10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −6.689
Std Dev 7.996
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

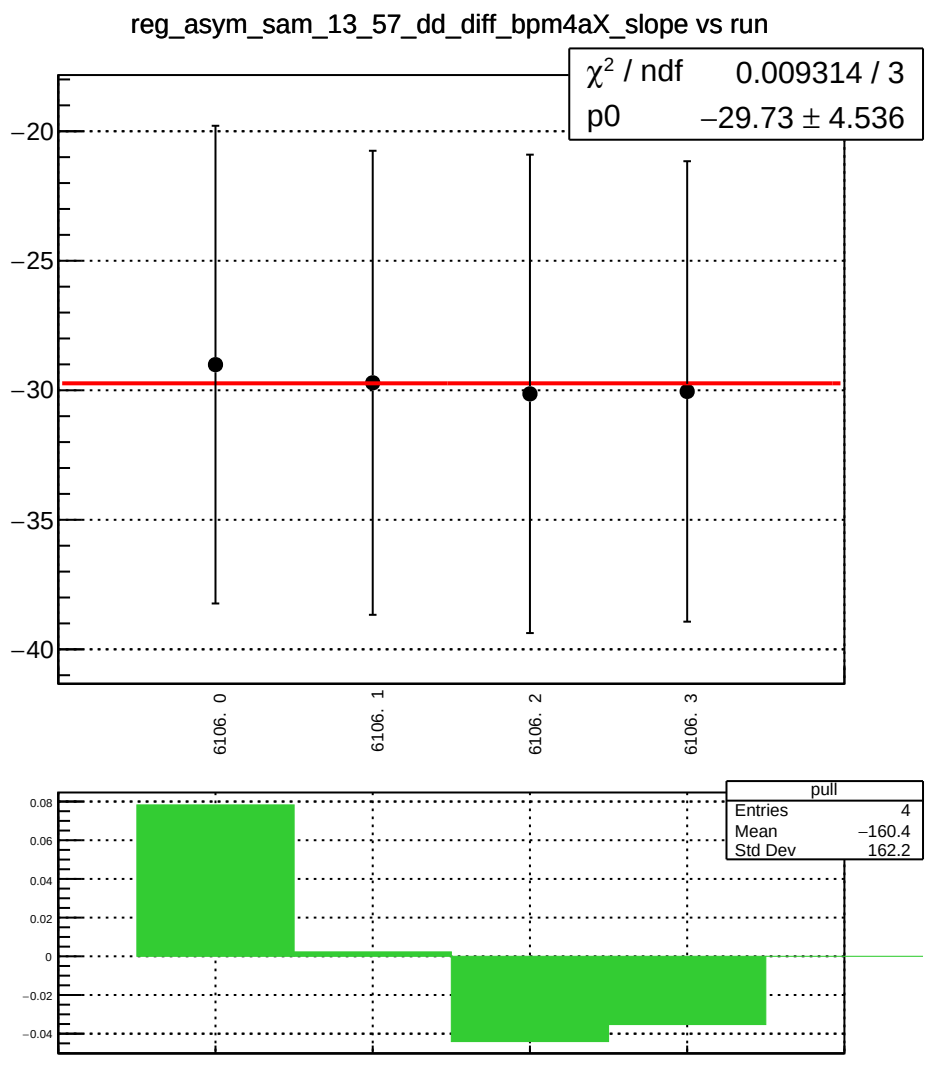

pull1D
Entries 4
Mean 0.007622
Std Dev 0.1407
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

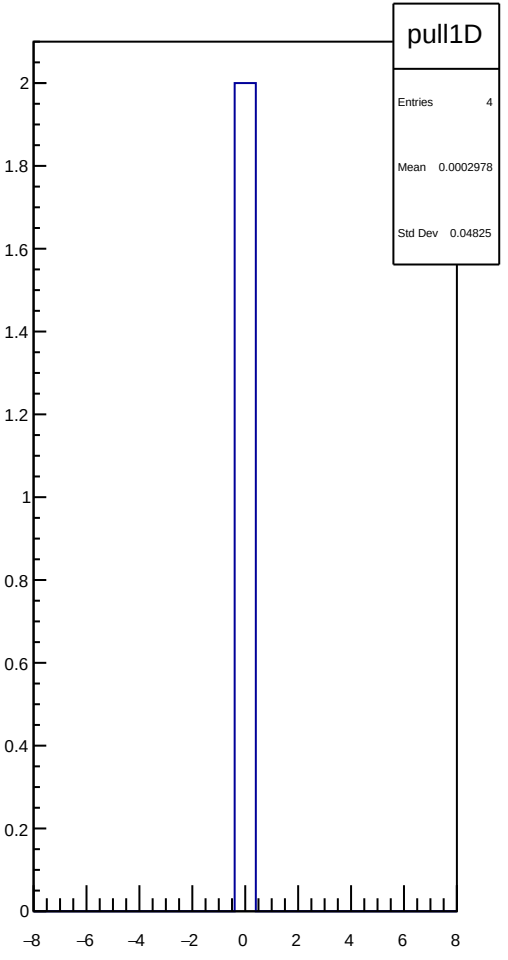

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.002684 / 3
p0 −44.55 ± 12.62
−20
−30
−40
−50
−60
−70
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 230.4
Std Dev 229.1
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04

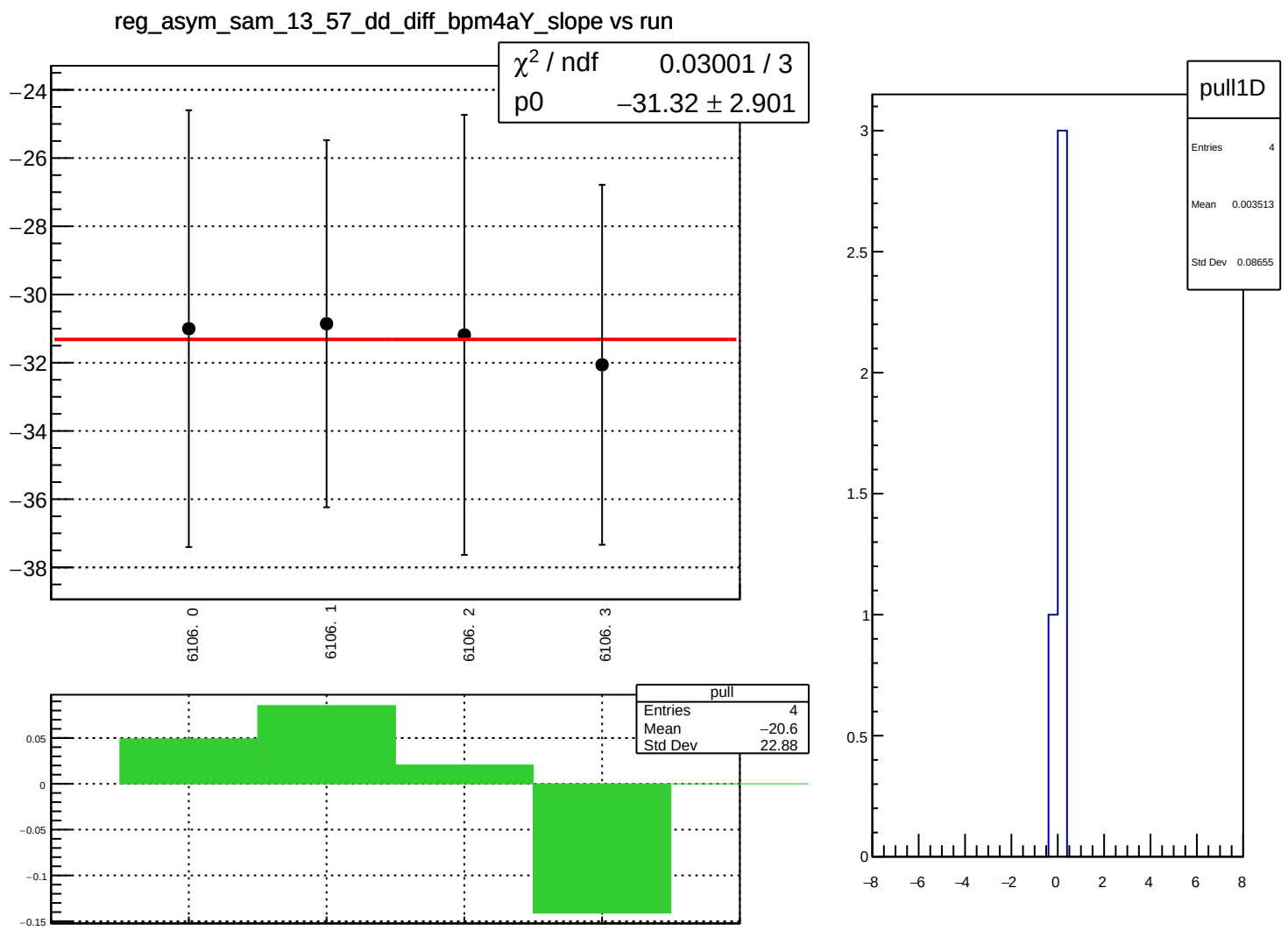

pull1D
Entries 4
Mean 6.591e−05
Std Dev 0.0259
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

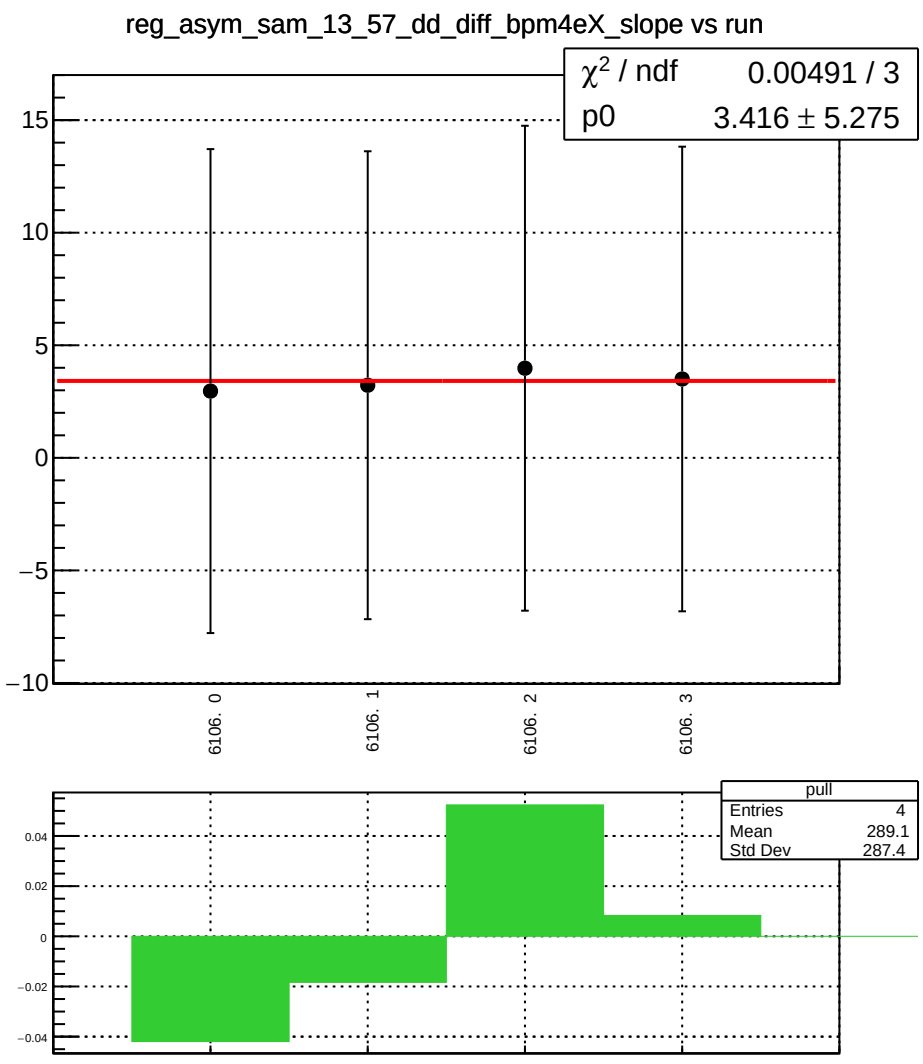

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1073 / 3
p0 111.9 ± 7.376
130
125
120
115
110
105
100
95
90
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −10.48
Std Dev 11.79
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 4
Mean −0.005736
Std Dev 0.1637
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

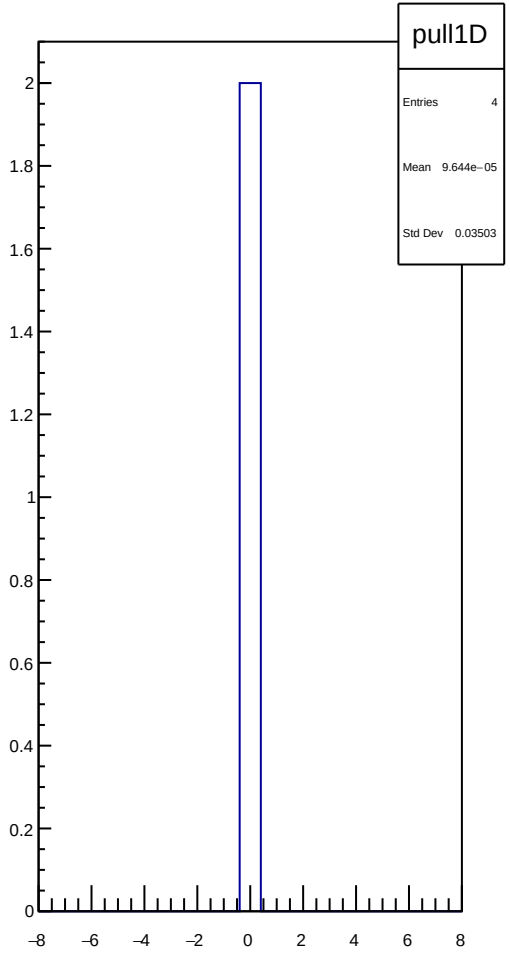

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.0601 / 3
p0 −1.073 ± 0.5254
0
−0.5
−1
−1.5
−2
−2.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −78.76
Std Dev 80.65
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean −0.0004822
Std Dev 0.1226
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

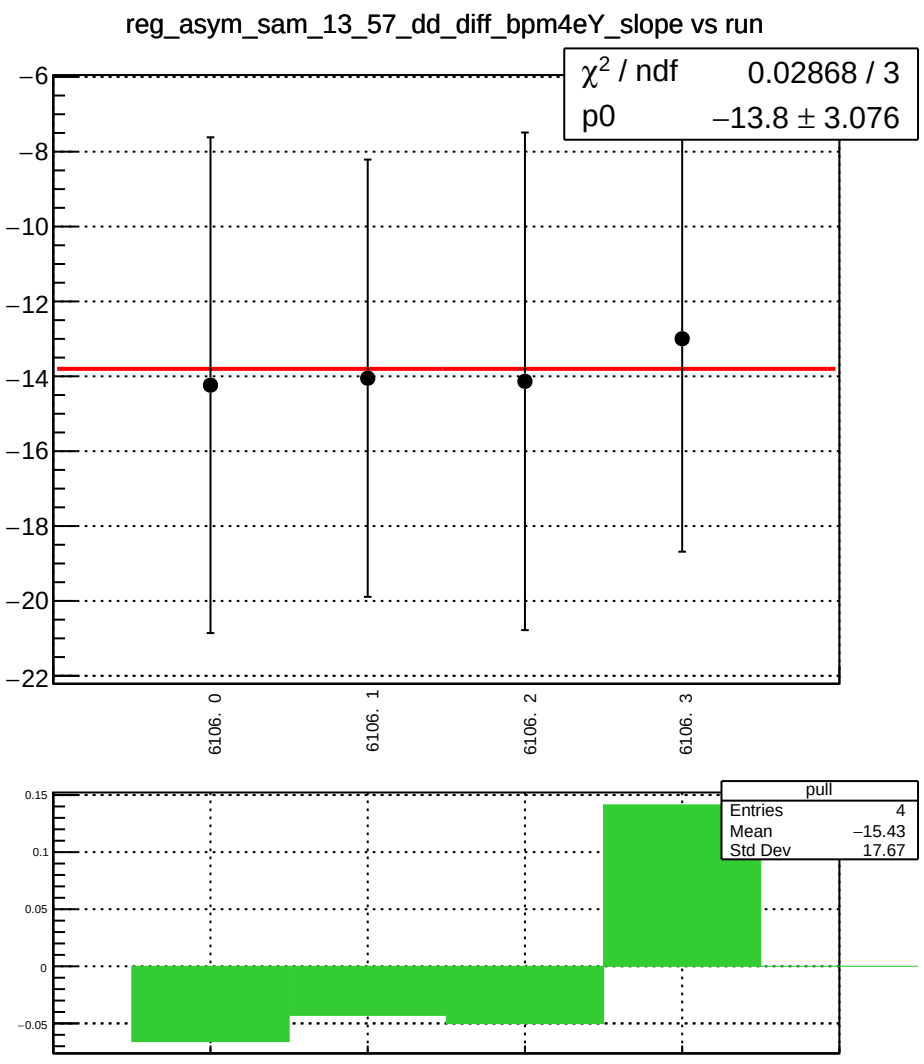

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.009314 / 3
p0 −29.73 ± 4.536
−20
−25
−30
−35
−40
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −160.4
Std Dev 162.2
0.08
0.06
0.04
0.02
0
−0.02
−0.04

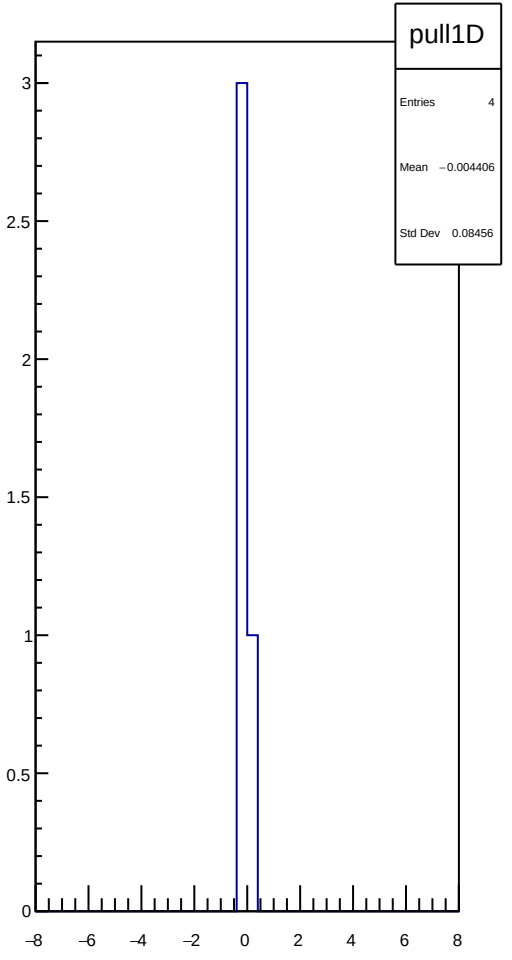

pull1D
Entries 4
Mean 0.0002978
Std Dev 0.04825
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

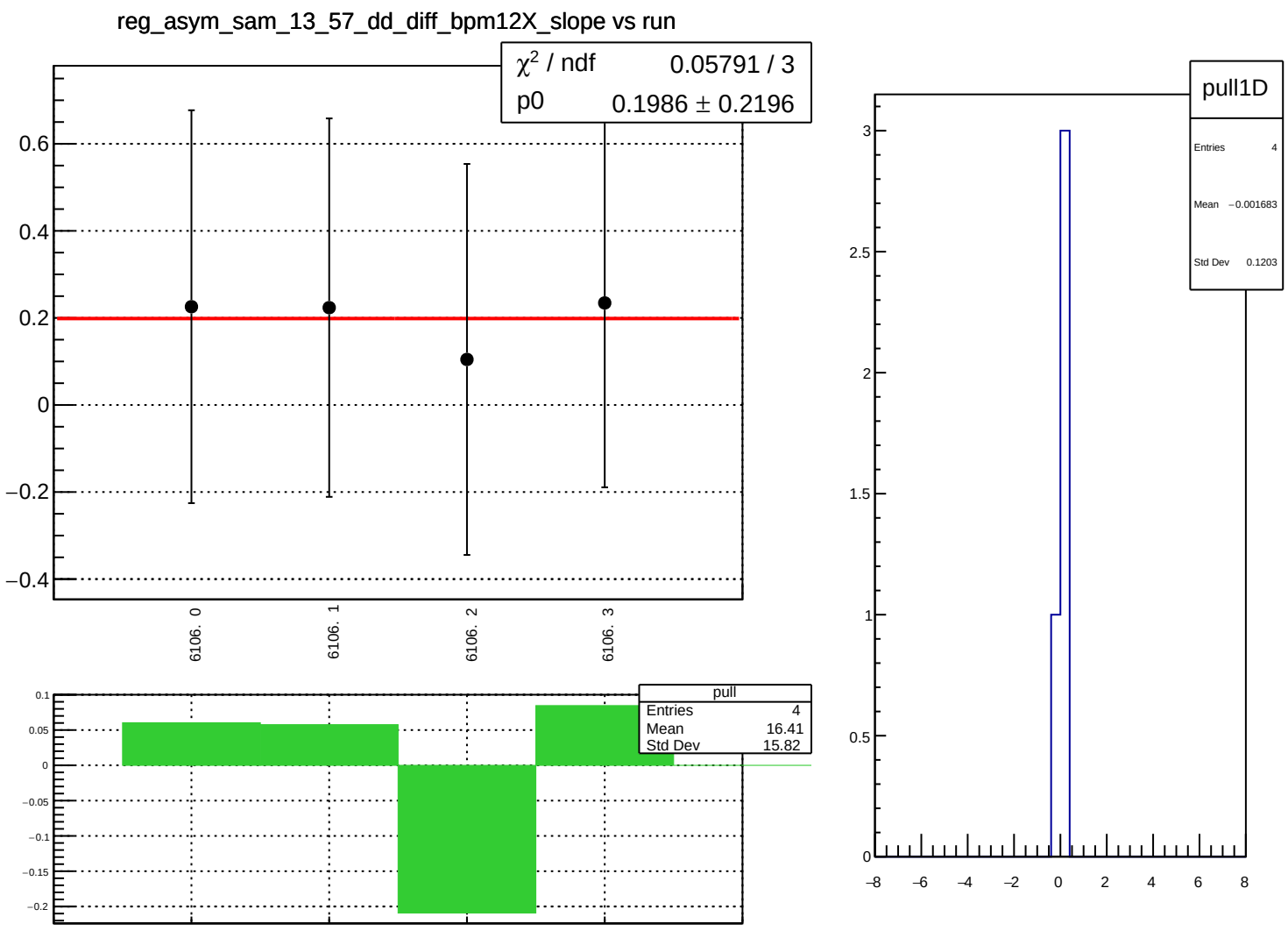

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.03001 / 3
p0 −31.32 ± 2.901
−24
−26
−28
−30
−32
−34
−36
−38
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −20.6
Std Dev 22.88
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.003513
Std Dev 0.08655
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

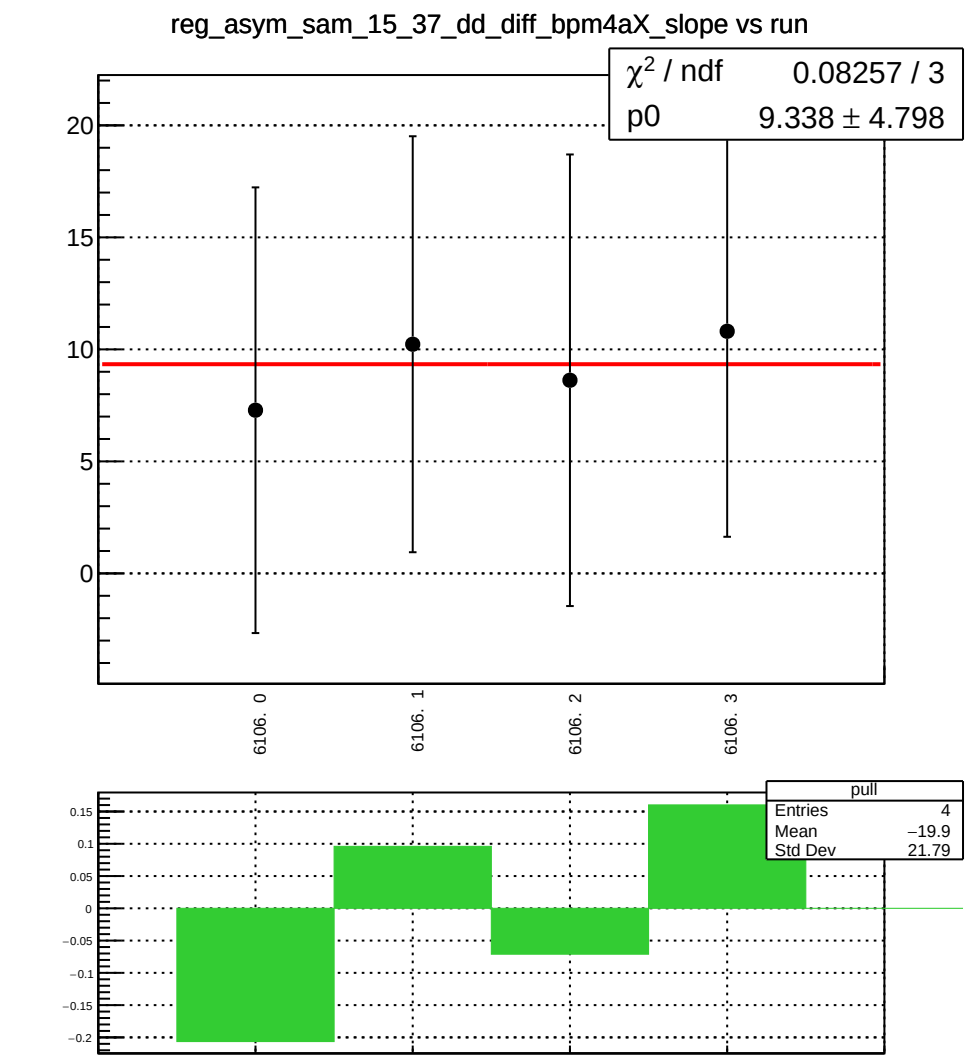

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.00491 / 3
p0 3.416 ± 5.275
15
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 289.1
Std Dev 287.4
0.04
0.02
0
−0.02
−0.04

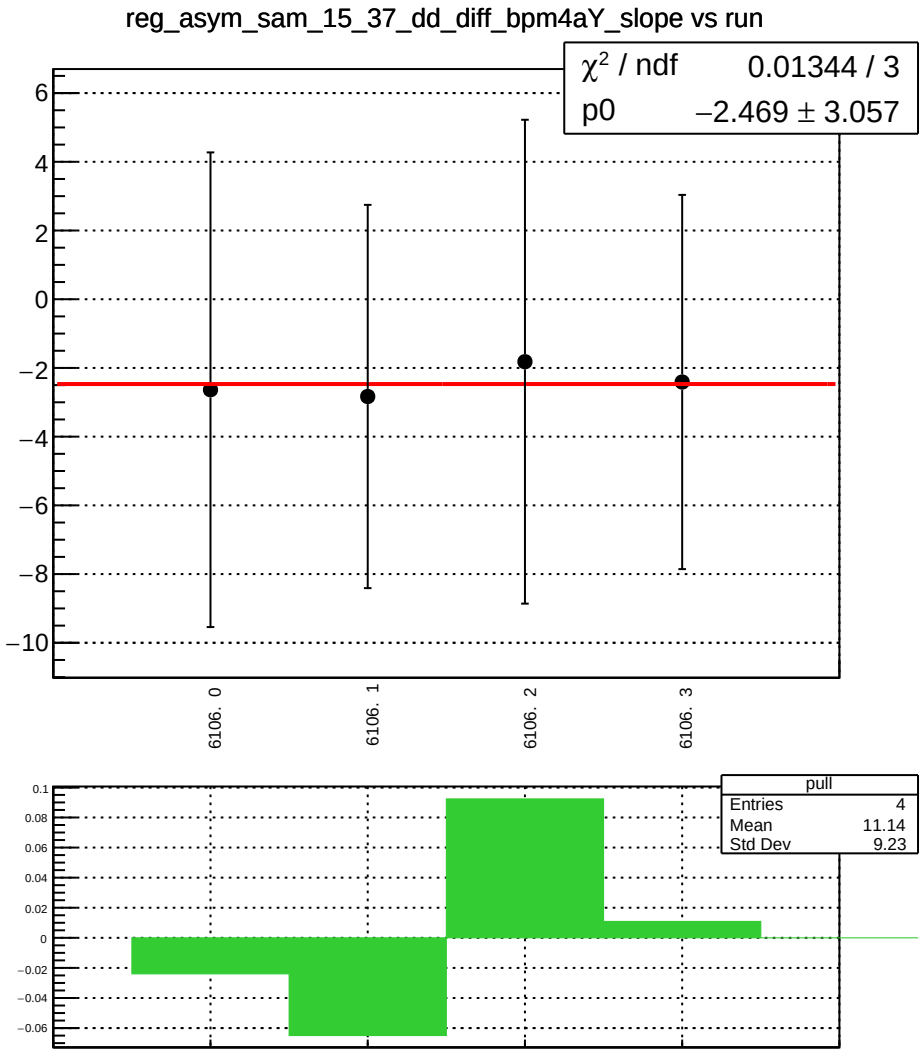

pull1D
Entries 4
Mean 9.644e−05
Std Dev 0.03503
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

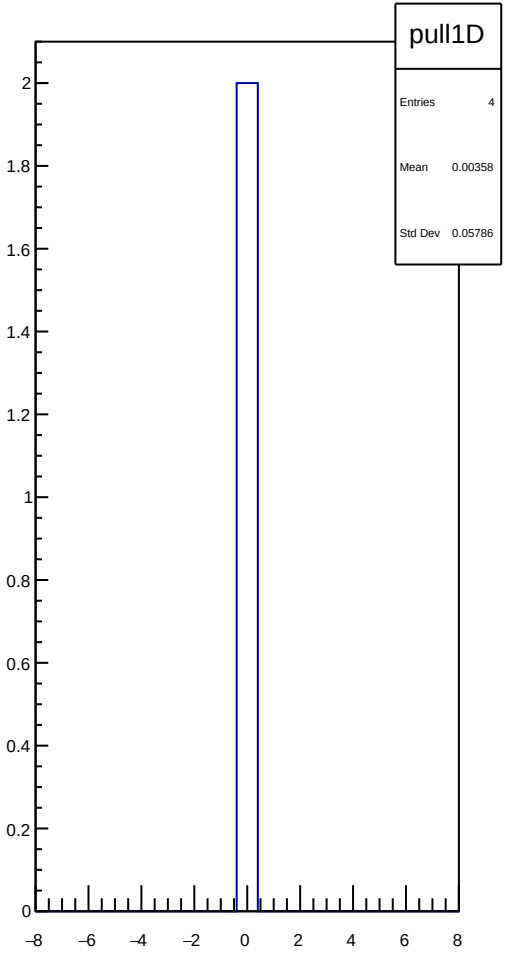

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.02868 / 3
p0 −13.8 ± 3.076
−6
−8
−10
−12
−14
−16
−18
−20
−22
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −15.43
Std Dev 17.67
0.15
0.1
0.05
0
−0.05

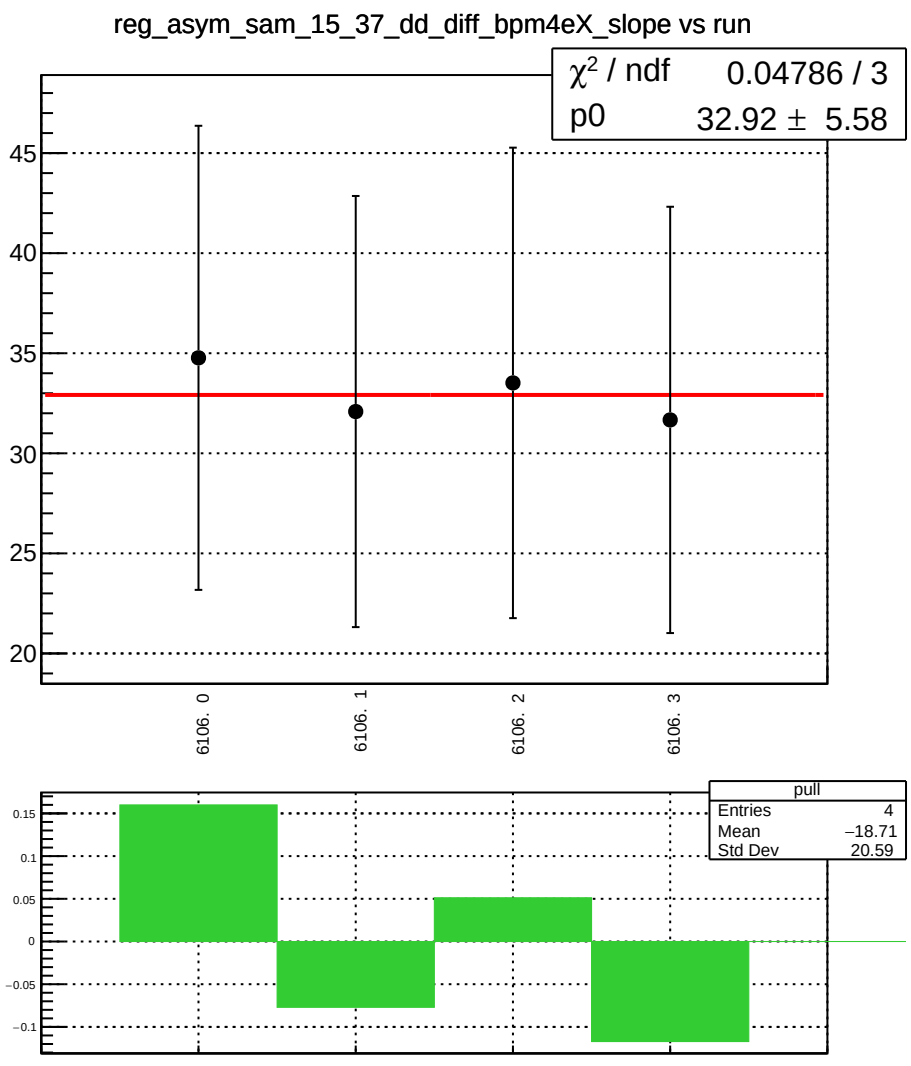

pull1D
Entries 4
Mean −0.004406
Std Dev 0.08456
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

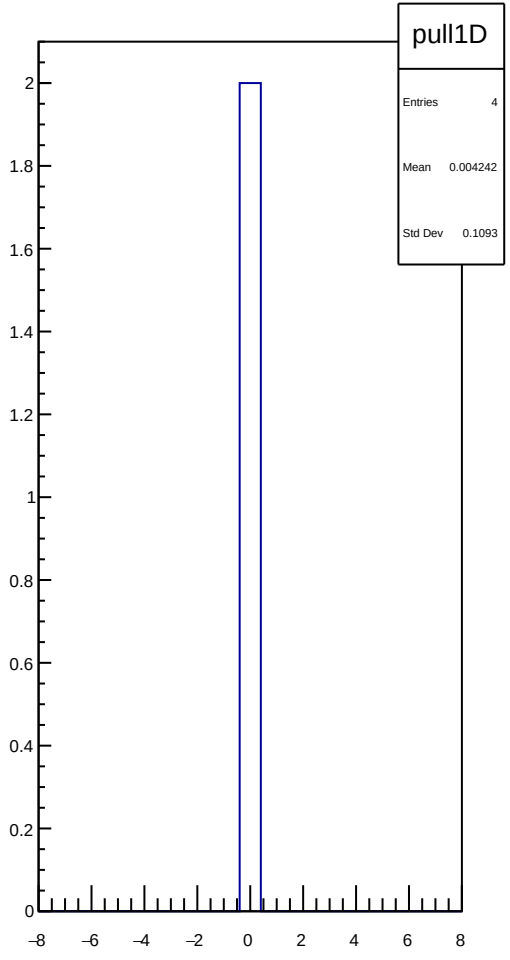

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0.05791 / 3
p0 0.1986 ± 0.2196
0.6
0.4
0.2
0
−0.2
−0.4
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 16.41
Std Dev 15.82
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 4
Mean −0.001683
Std Dev 0.1203
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

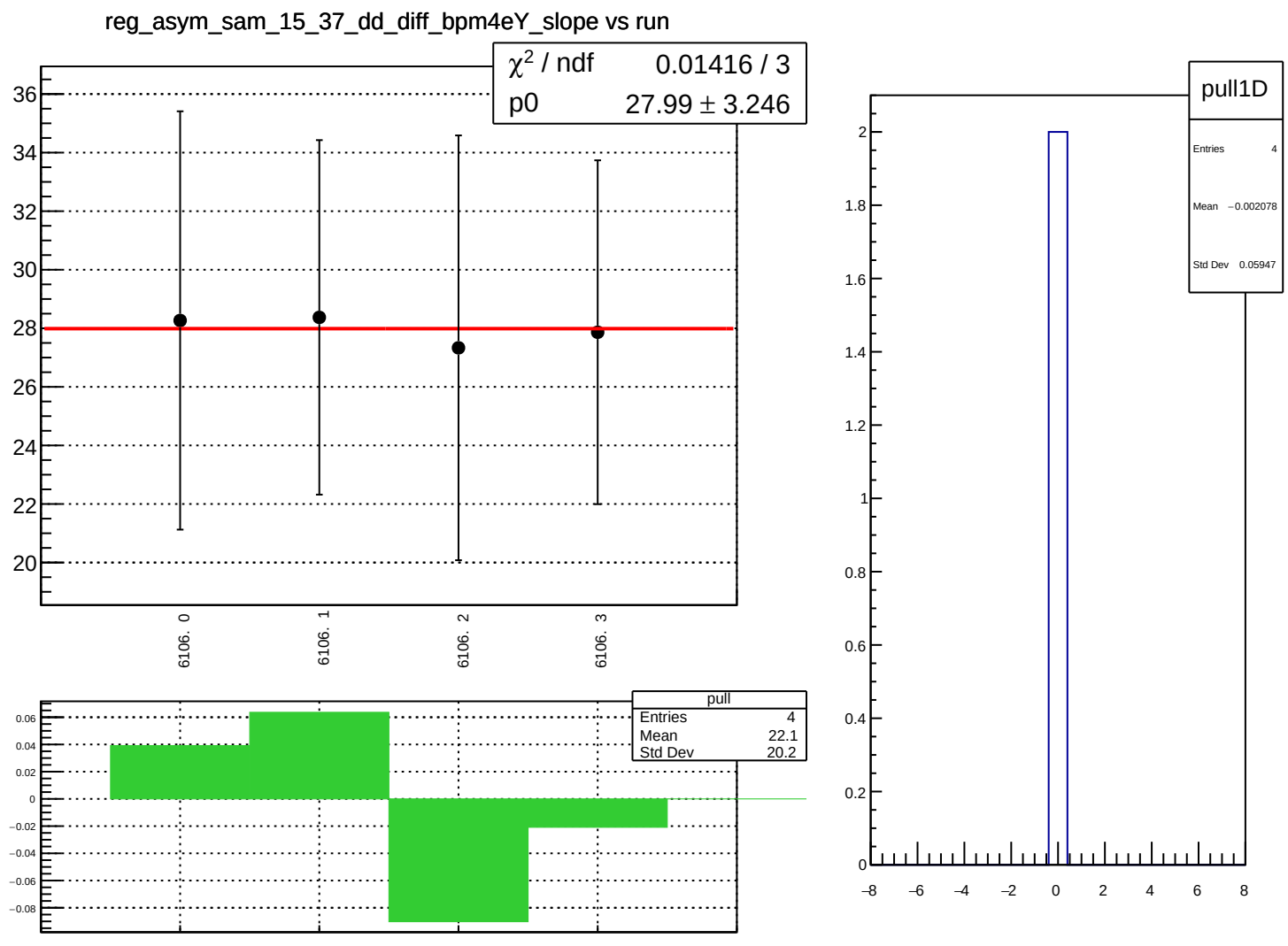

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.08257 / 3
p0 9.338 ± 4.798
20
15
10
5
0
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −19.9
Std Dev 21.79
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 4
Mean −0.005325
Std Dev 0.1436
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

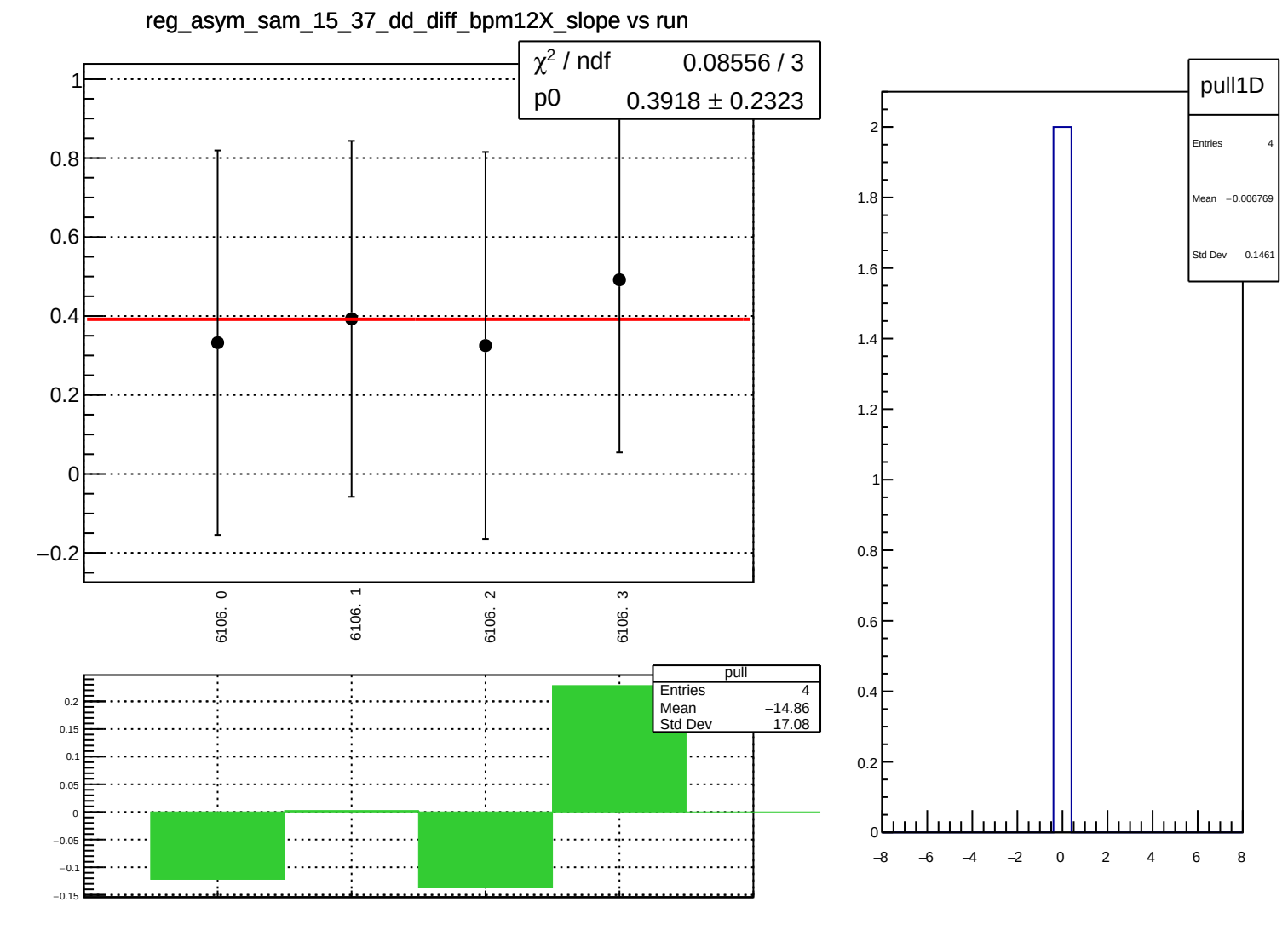

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.01344 / 3
p0 −2.469 ± 3.057
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 11.14
Std Dev 9.23

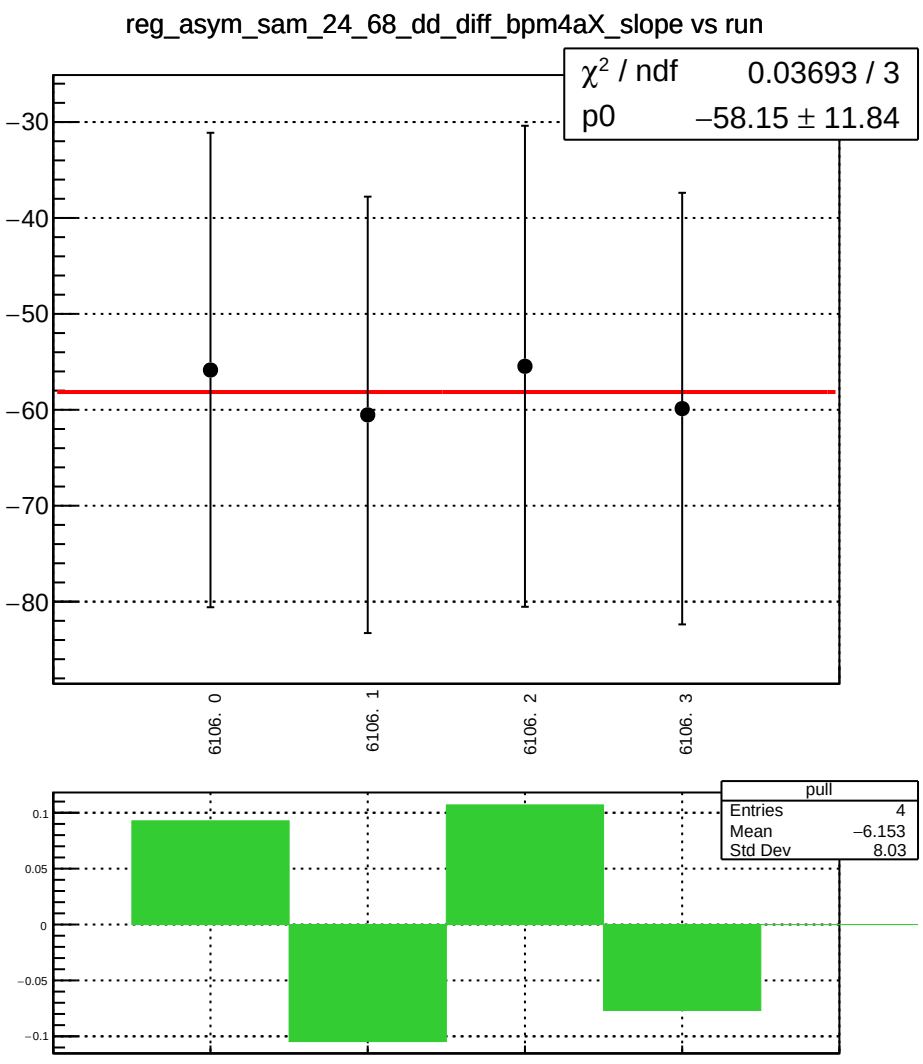

pull1D
Entries 4
Mean 0.00358
Std Dev 0.05786

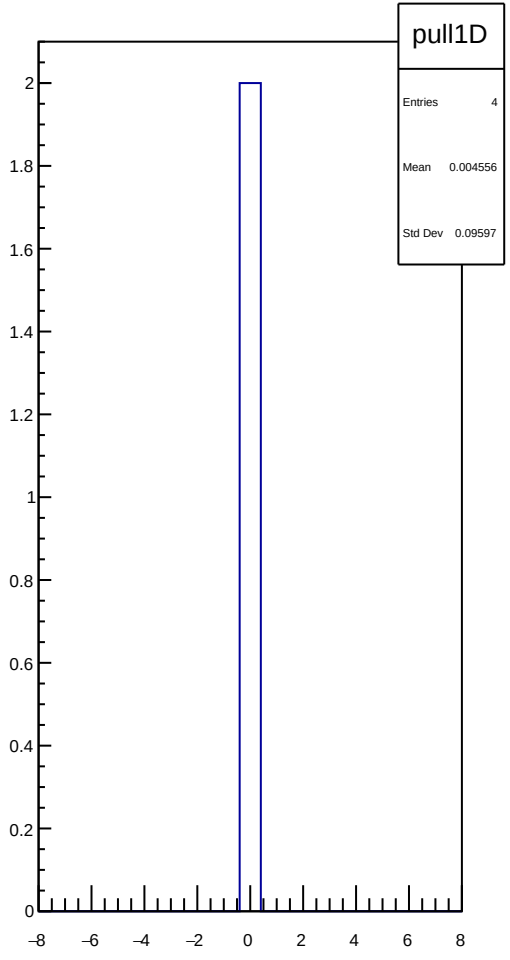

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.04786 / 3
p0 32.92 ± 5.58
45
40
35
30
25
20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −18.71
Std Dev 20.59
0.15
0.1
0.05
0
−0.05
−0.1

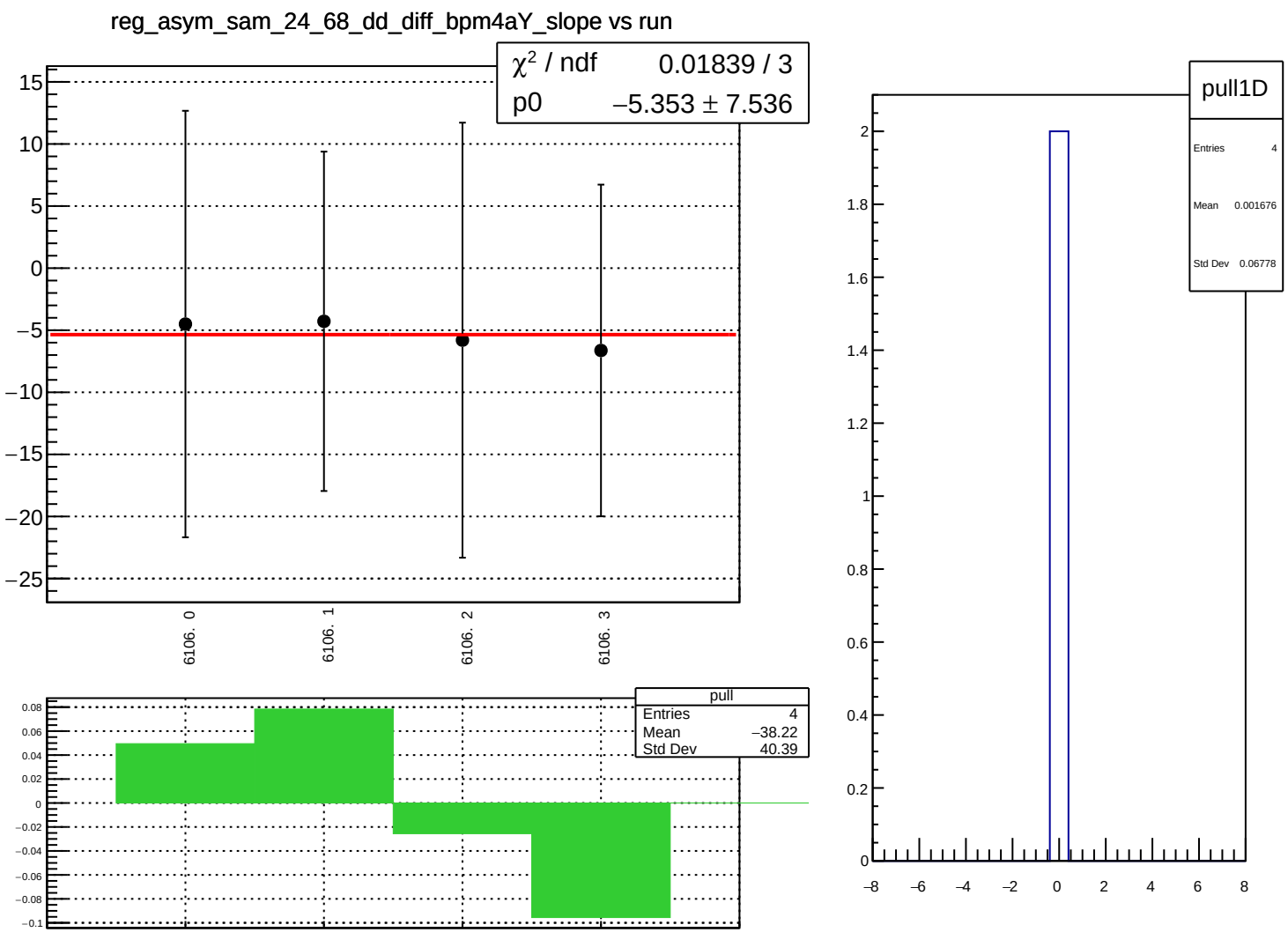

pull1D
Entries 4
Mean 0.004242
Std Dev 0.1093
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

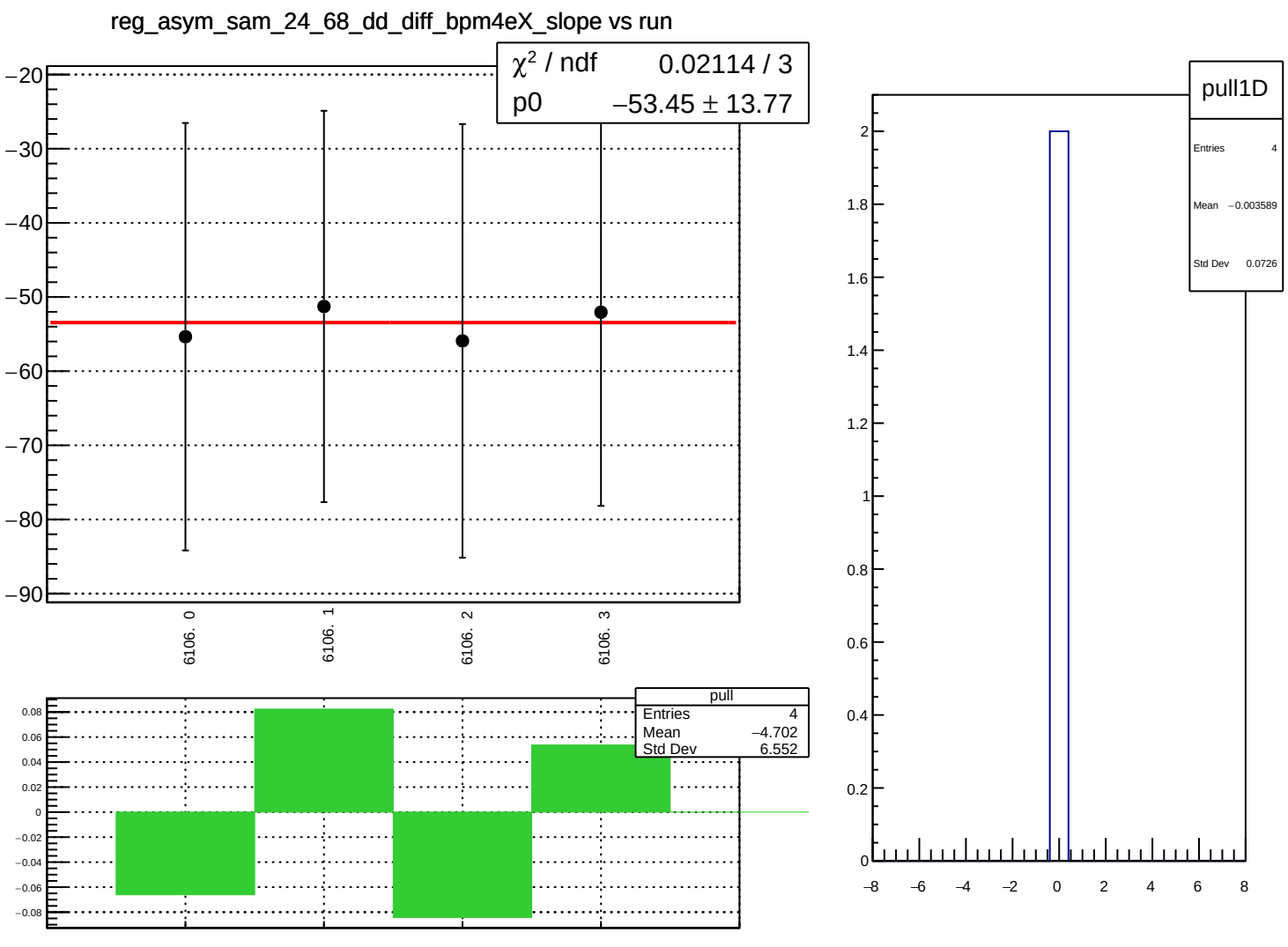

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.01416 / 3
p0 27.99 ± 3.246
36
34
32
30
28
26
24
22
20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 22.1
Std Dev 20.2
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean −0.002078
Std Dev 0.05947
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

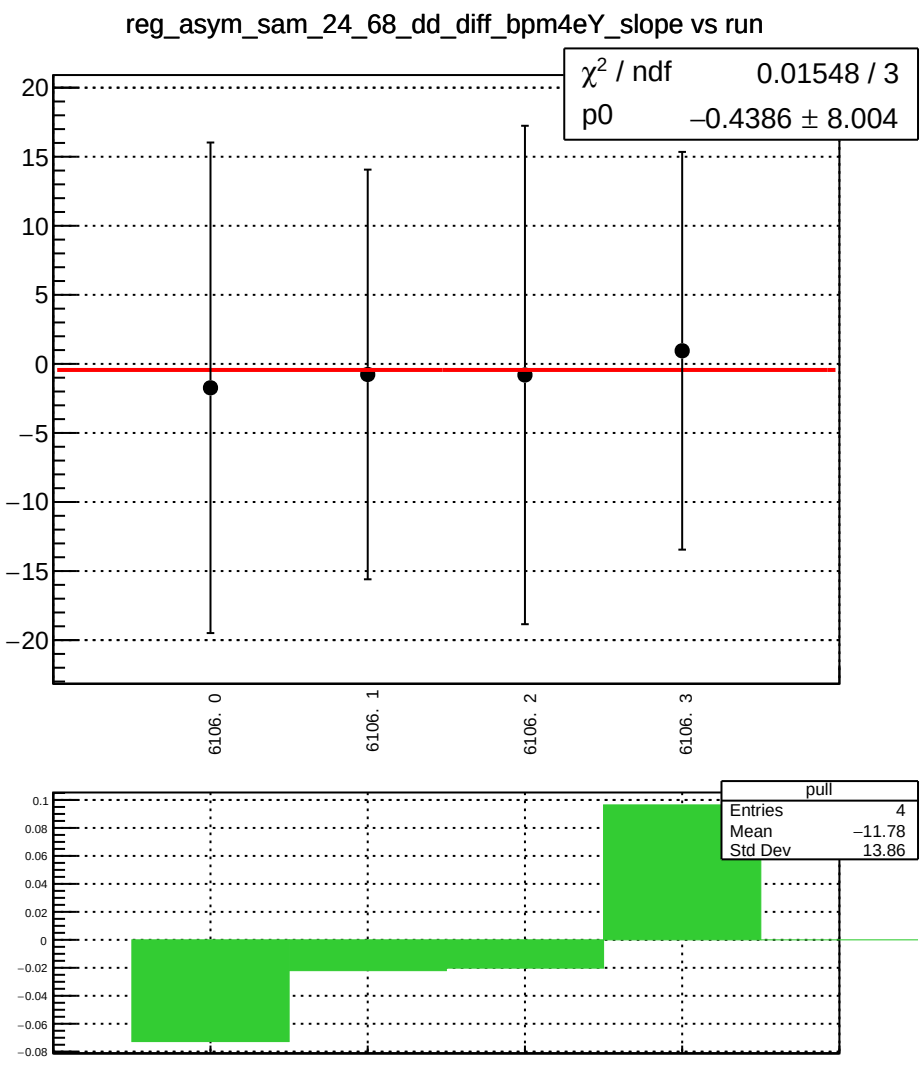

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.08556 / 3
p0 0.3918 ± 0.2323
1
0.8
0.6
0.4
0.2
0
−0.2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −14.86
Std Dev 17.08
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean −0.006769
Std Dev 0.1461
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

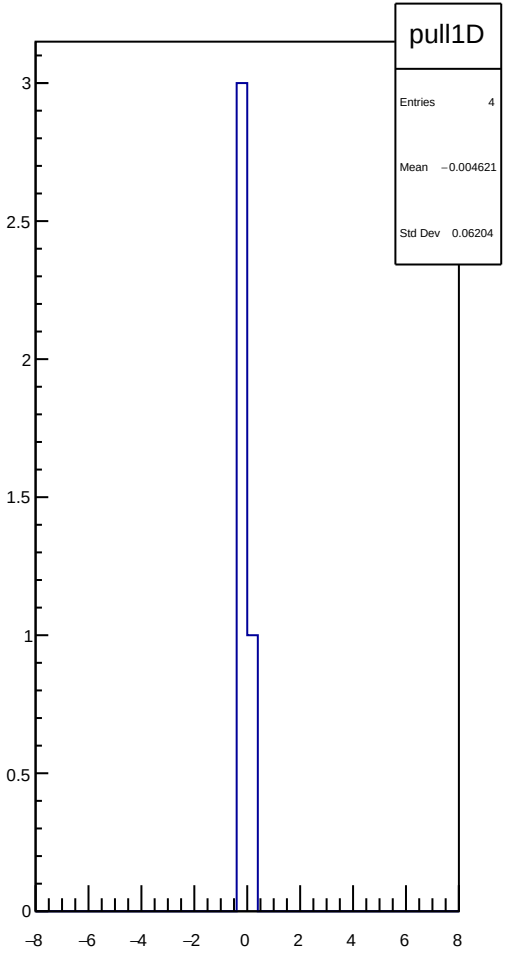

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.03693 / 3
p0 −58.15 ± 11.84
−30
−40
−50
−60
−70
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −6.153
Std Dev 8.03
0.1
0.05
0
−0.05
−0.1

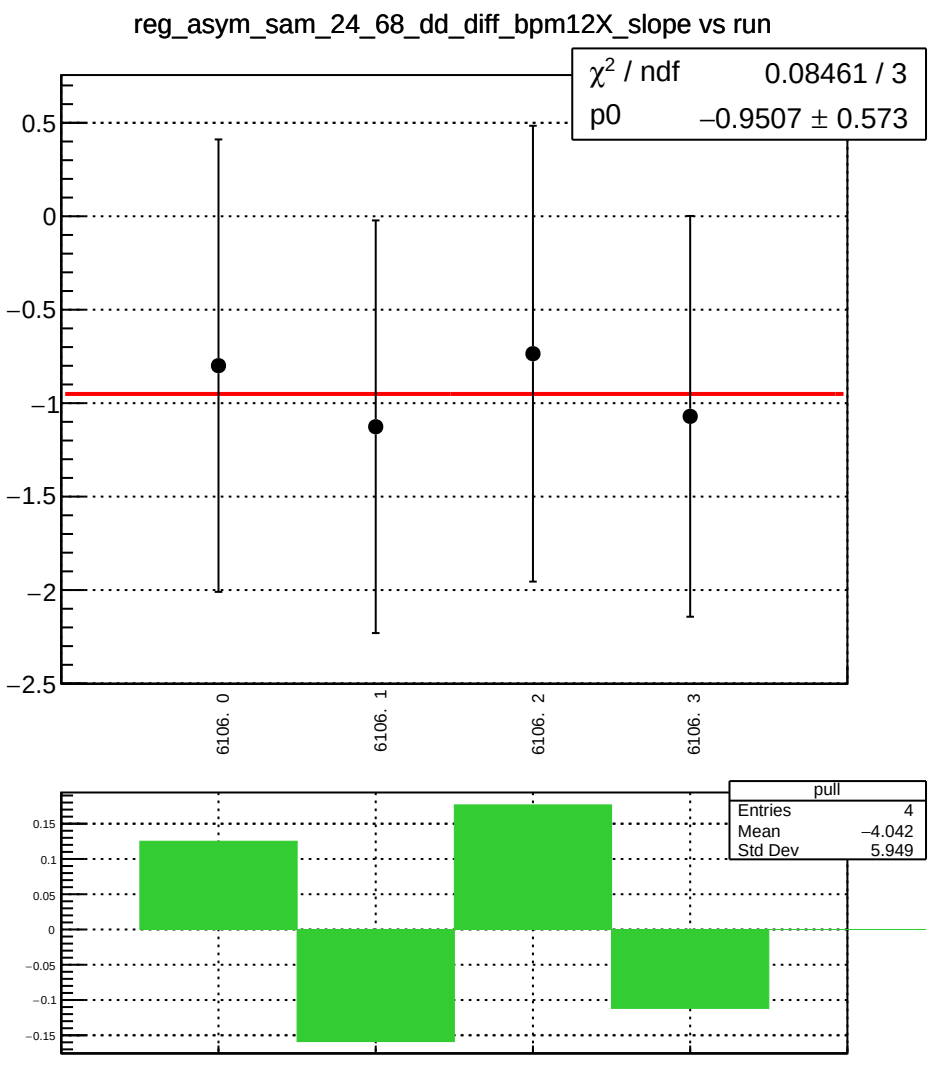

pull1D
Entries 4
Mean 0.004556
Std Dev 0.09597
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

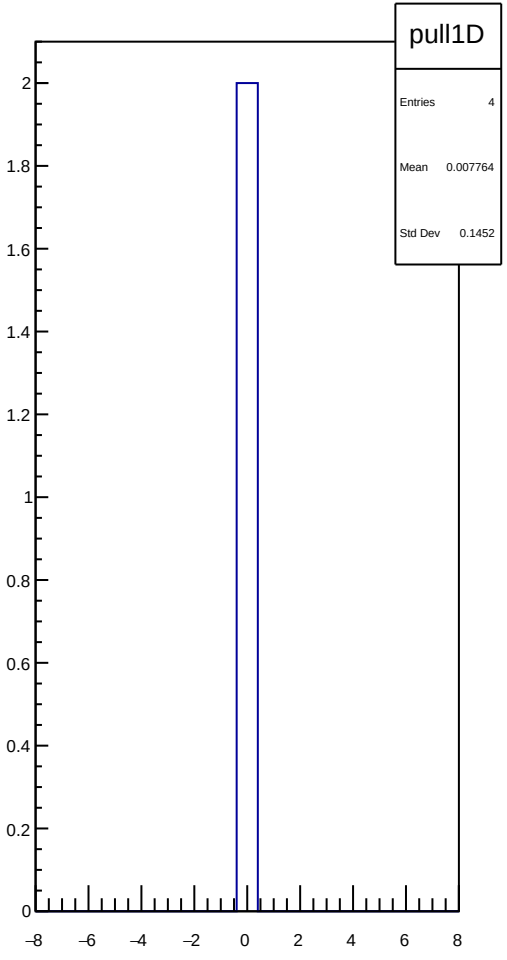

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.01839 / 3
p0 −5.353 ± 7.536
15
10
5
0
−5
−10
−15
−20
−25
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −38.22
Std Dev 40.39
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull1D
Entries 4
Mean 0.001676
Std Dev 0.06778
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

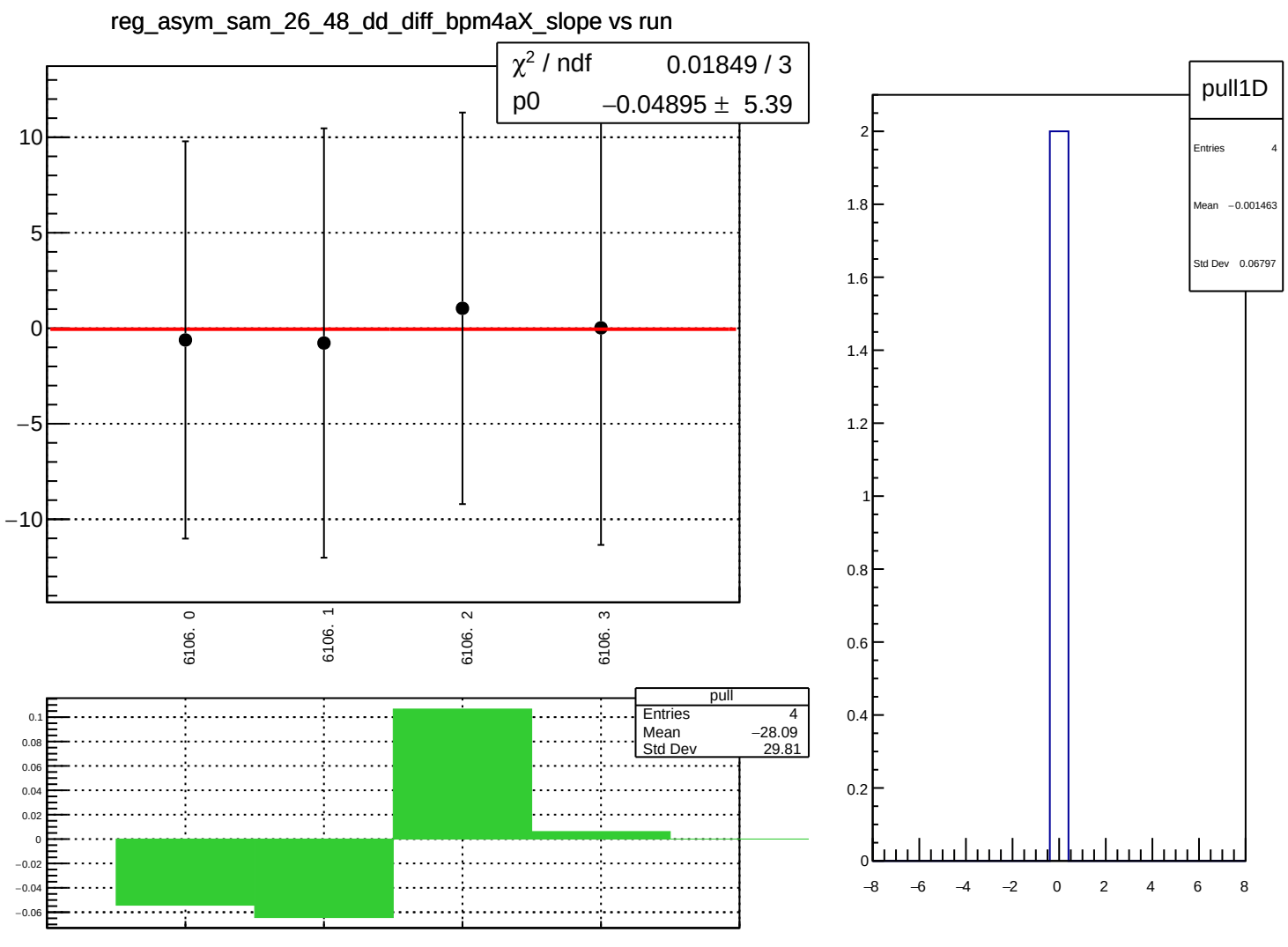

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.02114 / 3
p0 −53.45 ± 13.77
−20
−30
−40
−50
−60
−70
−80
−90
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.702
Std Dev 6.552
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean −0.003589
Std Dev 0.0726
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

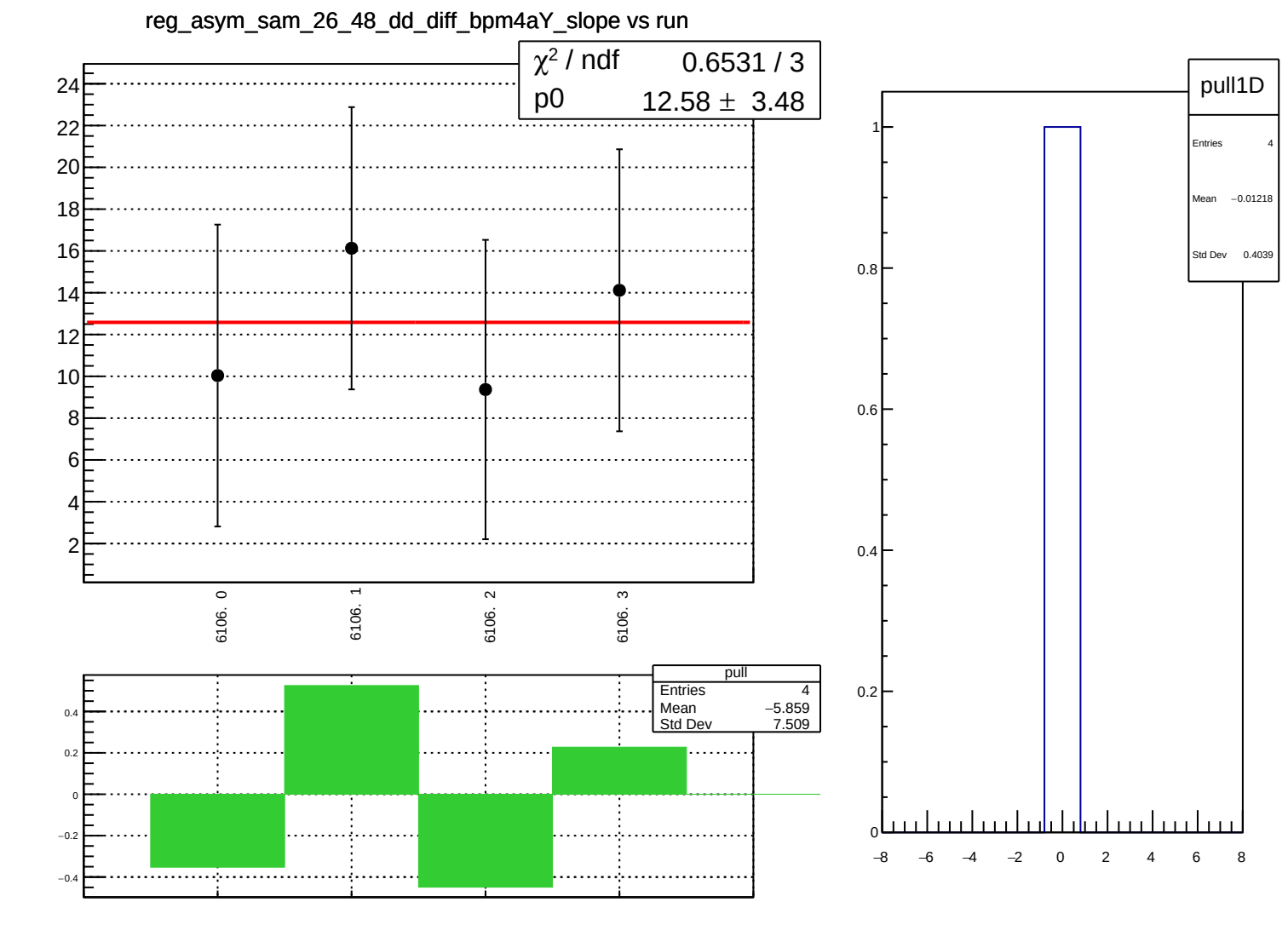

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.01548 / 3
p0 −0.4386 ± 8.004
20
15
10
5
0
−5
−10
−15
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −11.78
Std Dev 13.86
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

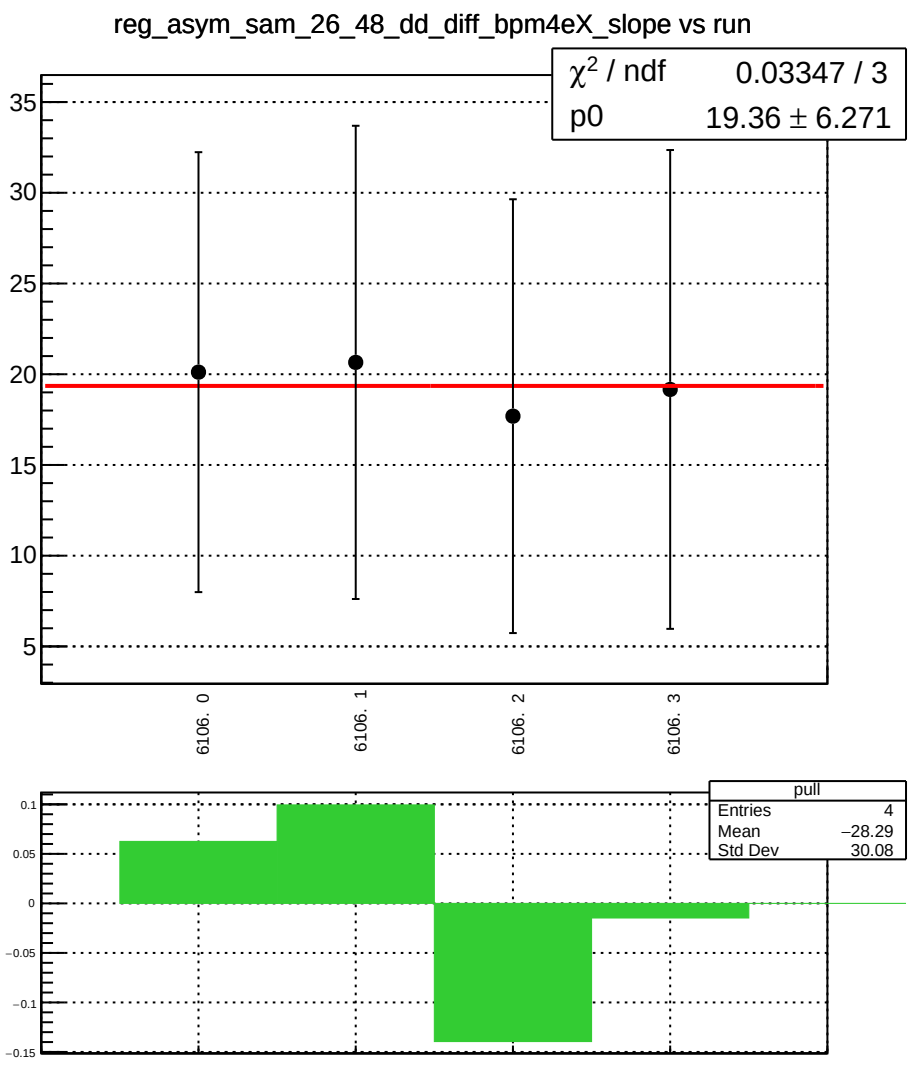

pull1D
Entries 4
Mean −0.004621
Std Dev 0.06204
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

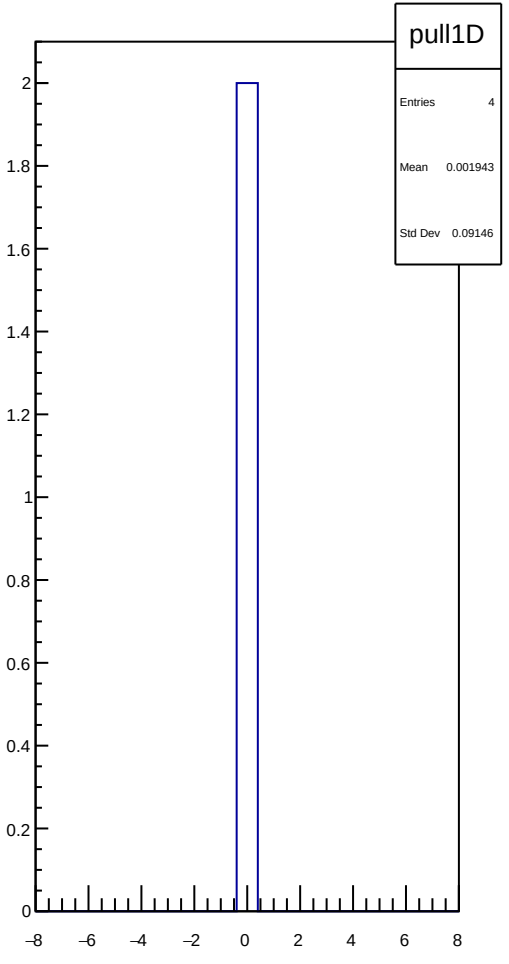

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.08461 / 3
p0 −0.9507 ± 0.573
0.5
0
−0.5
−1
−1.5
−2
−2.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.042
Std Dev 5.949
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

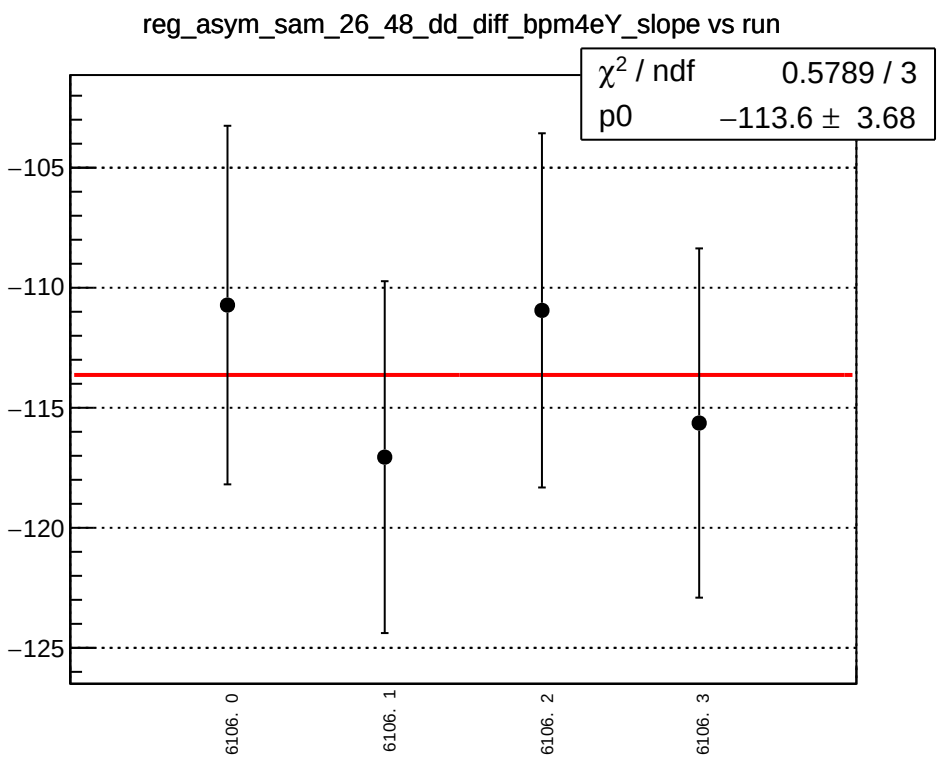

pull1D
Entries 4
Mean 0.007764
Std Dev 0.1452
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

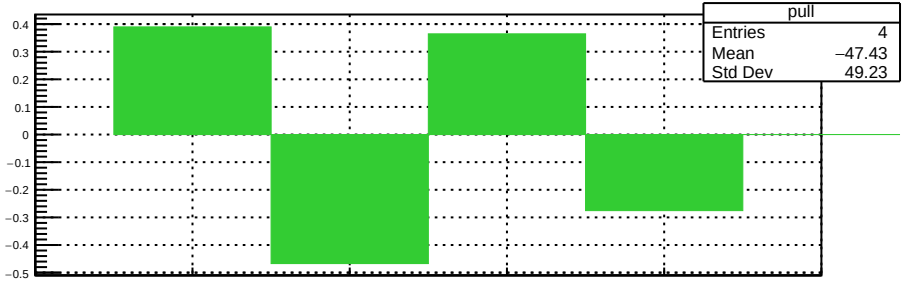

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.01849 / 3
p0 −0.04895 ± 5.39
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −28.09
Std Dev 29.81
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull1D
Entries 4
Mean −0.001463
Std Dev 0.06797
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

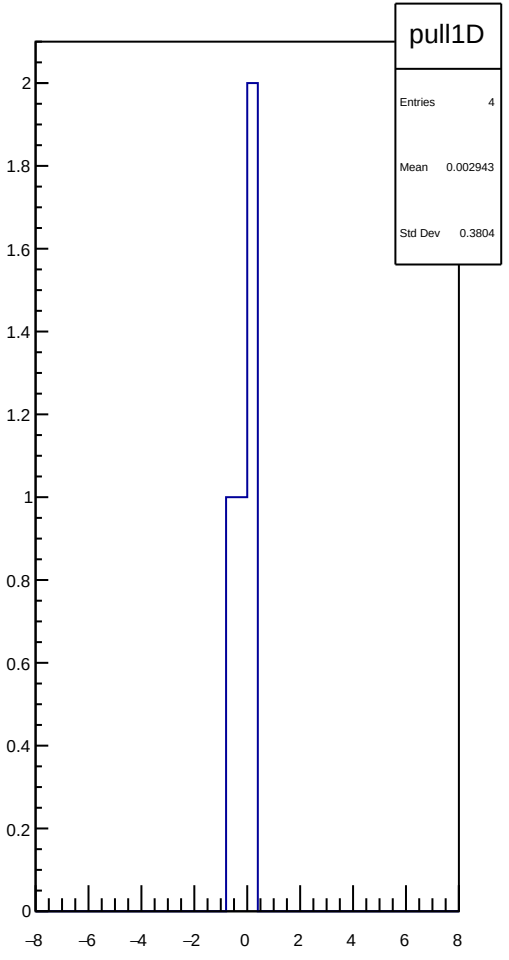

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6531 / 3
p0 12.58 ± 3.48
24
22
20
18
16
14
12
10
8
6
4
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −5.859
Std Dev 7.509
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.01218
Std Dev 0.4039
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

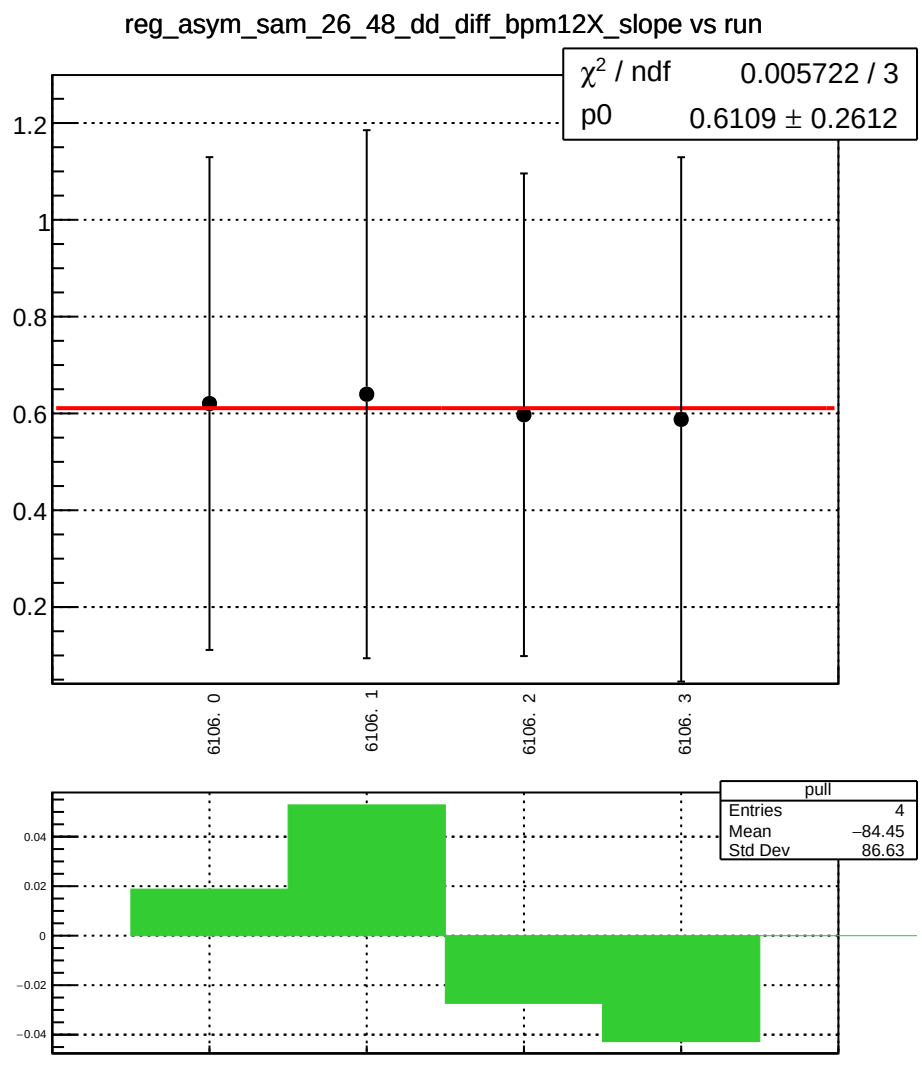

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.03347 / 3
p0 19.36 ± 6.271
35
30
25
20
15
10
5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −28.29
Std Dev 30.08
0.1
0.05
0
−0.05
−0.1
−0.15

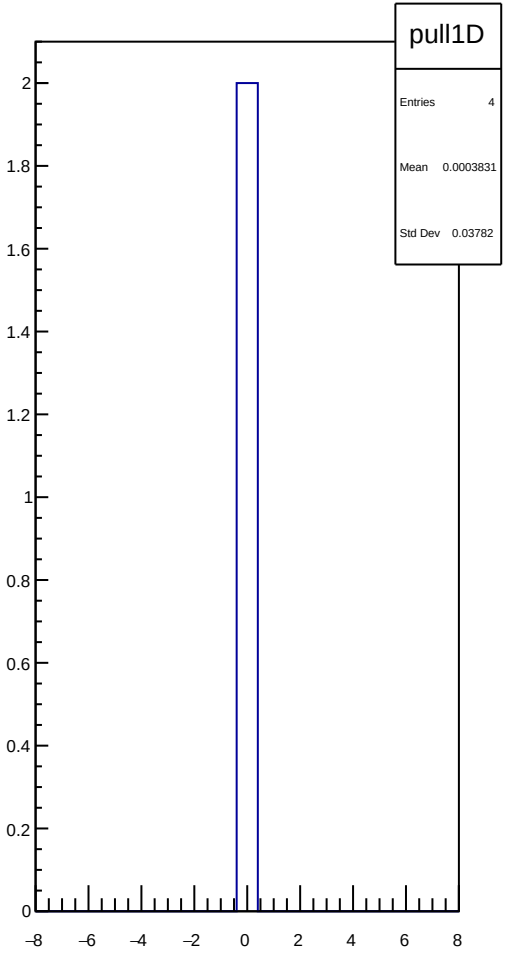

pull1D
Entries 4
Mean 0.001943
Std Dev 0.09146
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

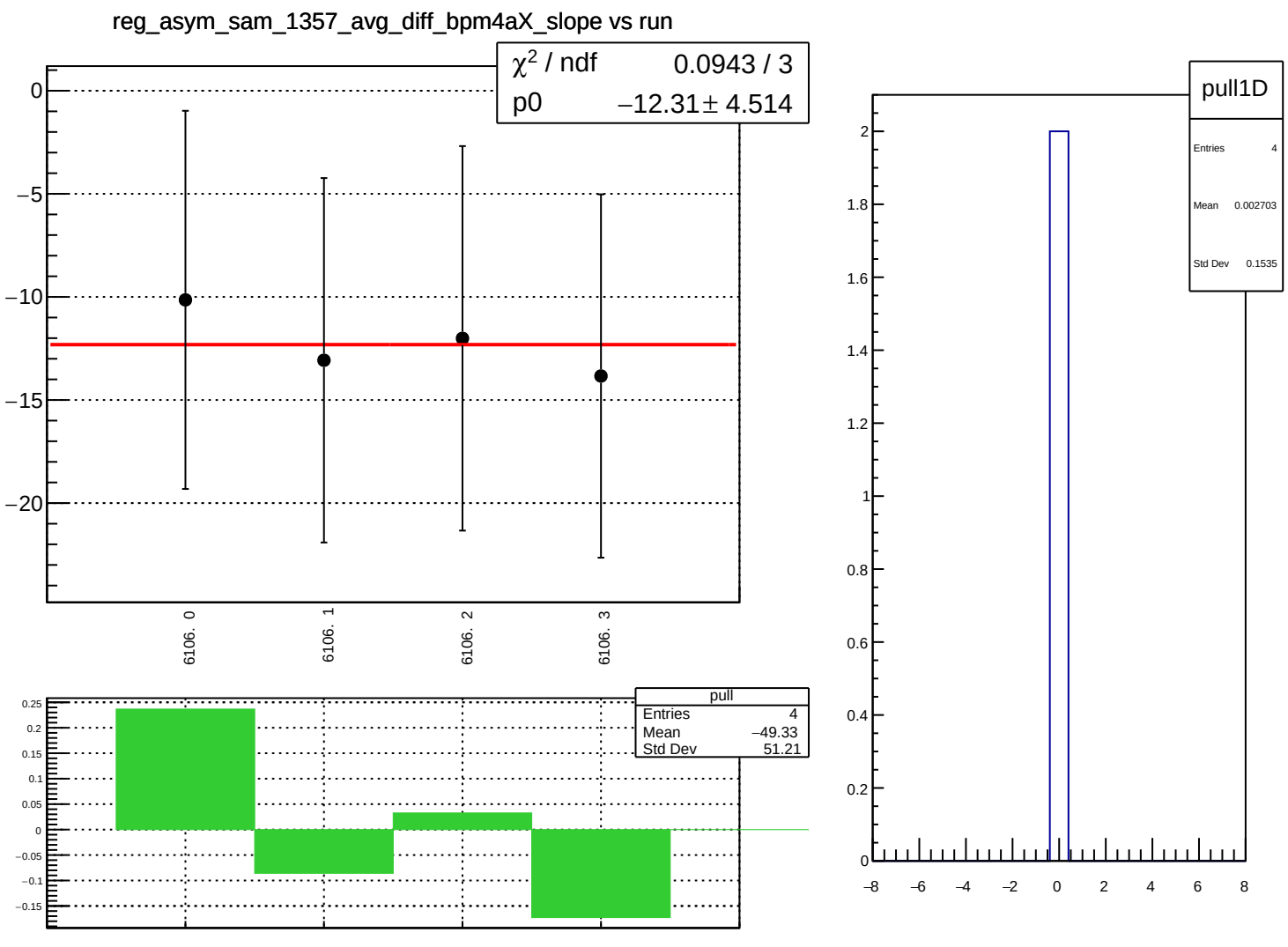

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5789 / 3
p0 −113.6 ± 3.68
−105
−110
−115
−120
−125
6106. 0
6106. 1
6106. 2
6106. 3

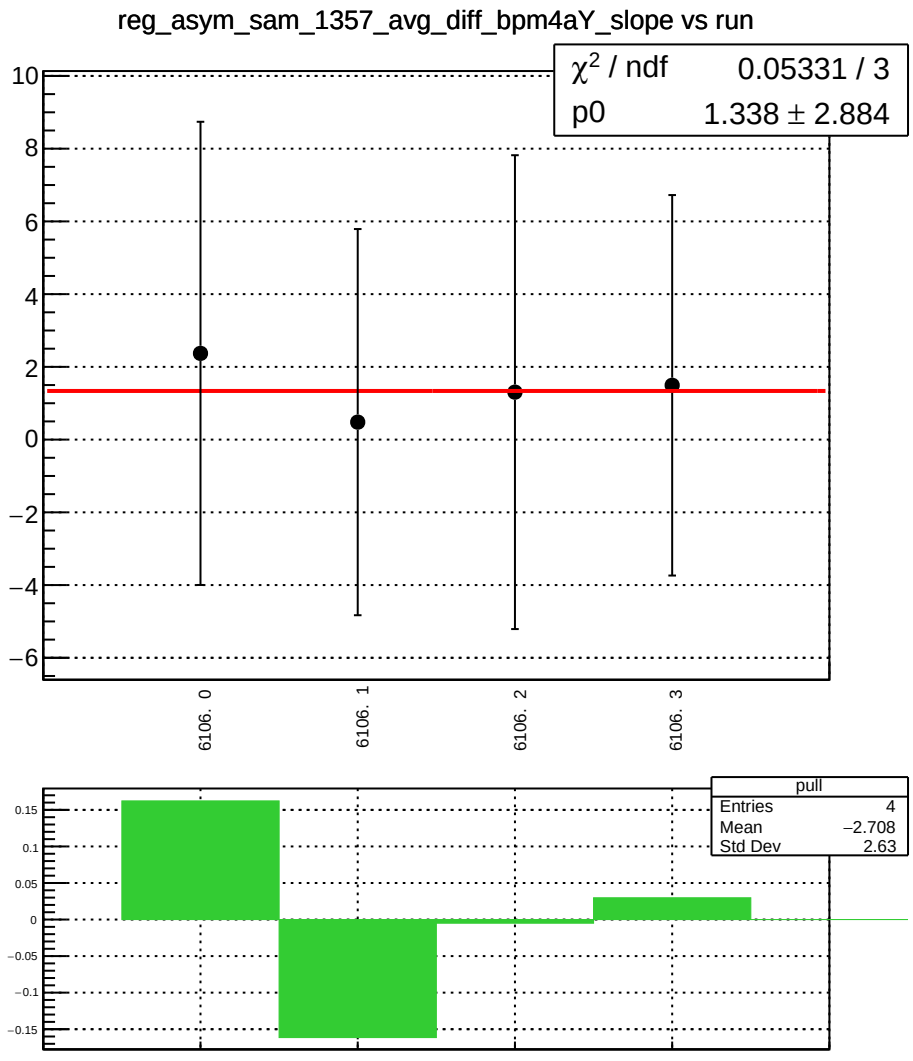

pull
Entries 4
Mean −47.43
Std Dev 49.23
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

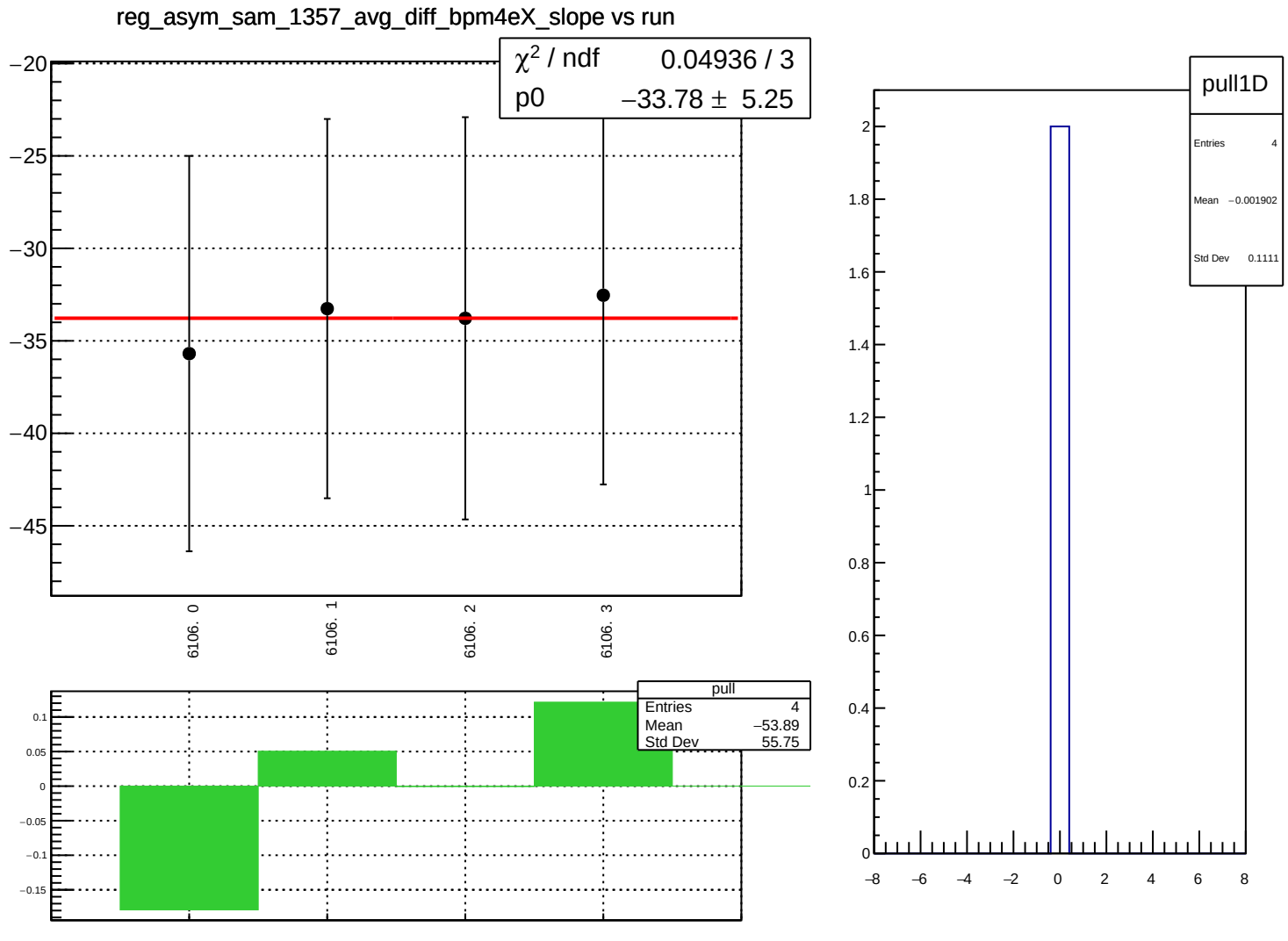

pull1D
Entries 4
Mean 0.002943
Std Dev 0.3804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

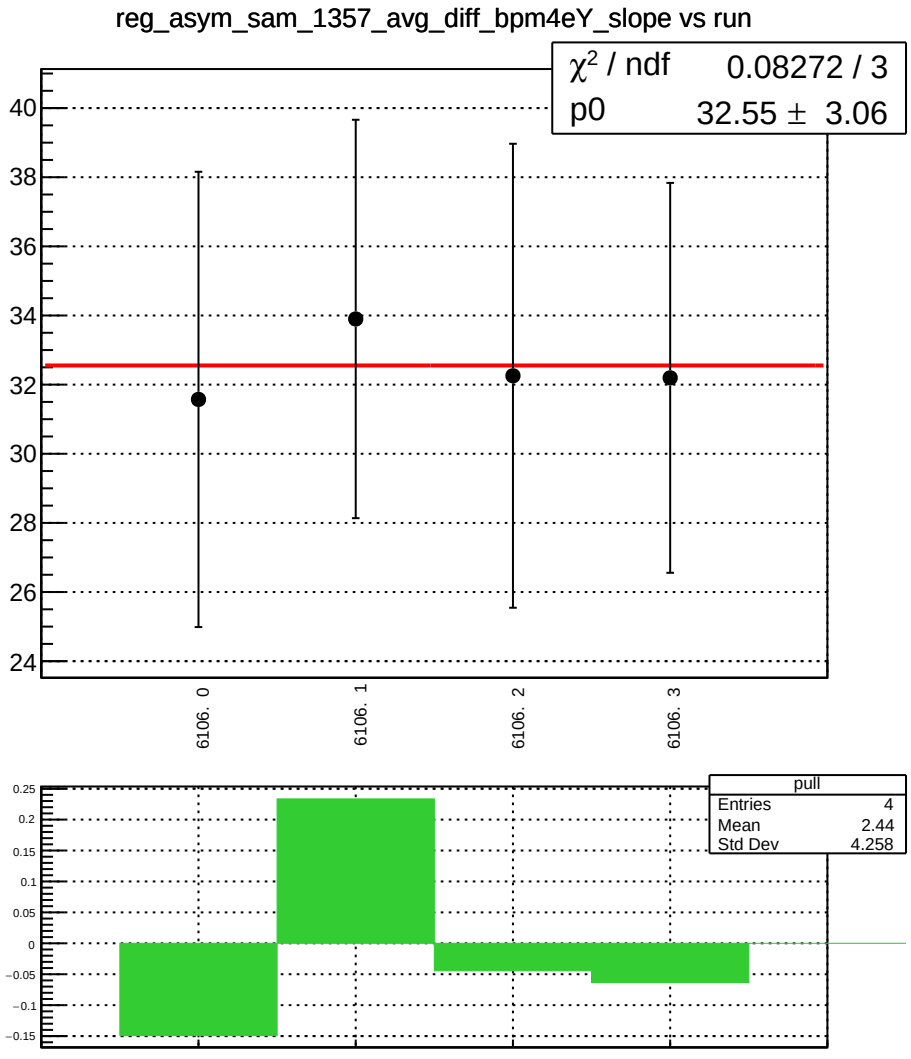

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.005722 / 3
p0 0.6109 ± 0.2612
1.2
1
0.8
0.6
0.4
0.2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −84.45
Std Dev 86.63
0.04
0.02
0
−0.02
−0.04

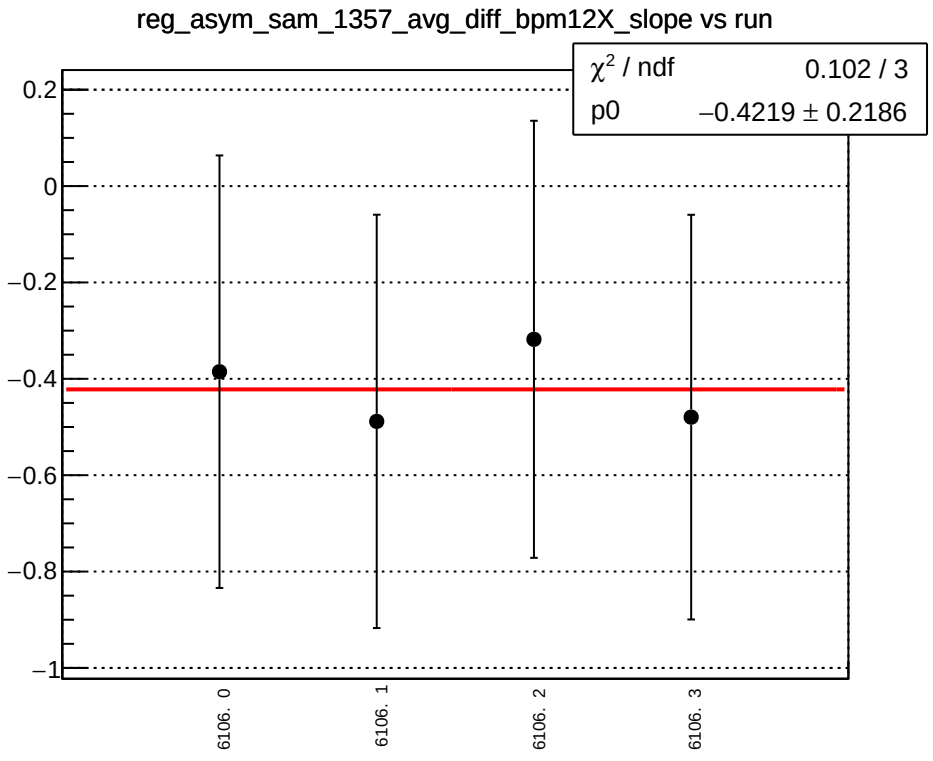

pull1D
Entries 4
Mean 0.0003831
Std Dev 0.03782
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

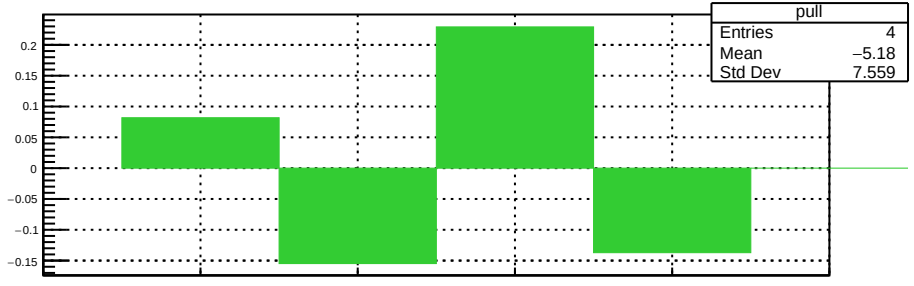

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.0943 / 3
p0 −12.31 ± 4.514
0
−5
−10
−15
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −49.33
Std Dev 51.21
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.002703
Std Dev 0.1535
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

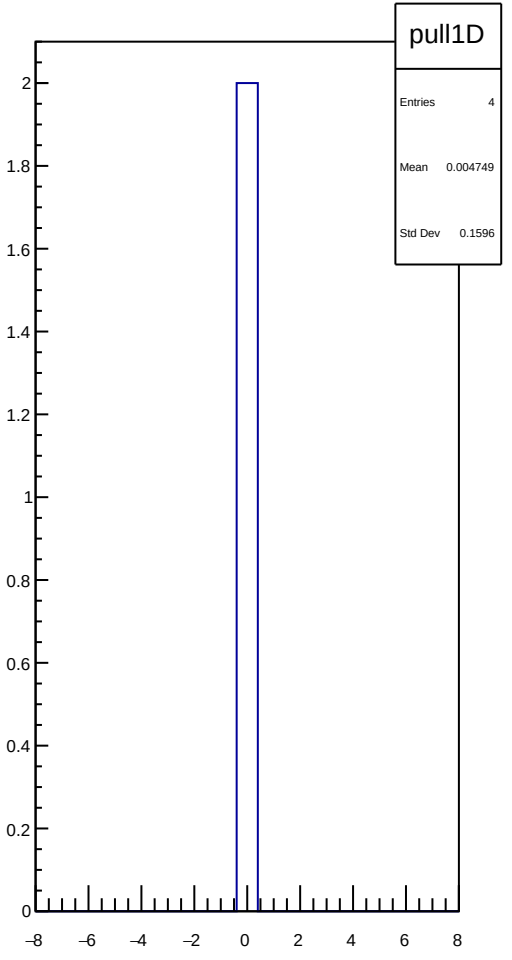

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.05331 / 3
p0 1.338 ± 2.884
10
8
6
4
2
0
−2
−4
−6
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −2.708
Std Dev 2.63
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.006403
Std Dev 0.1153
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

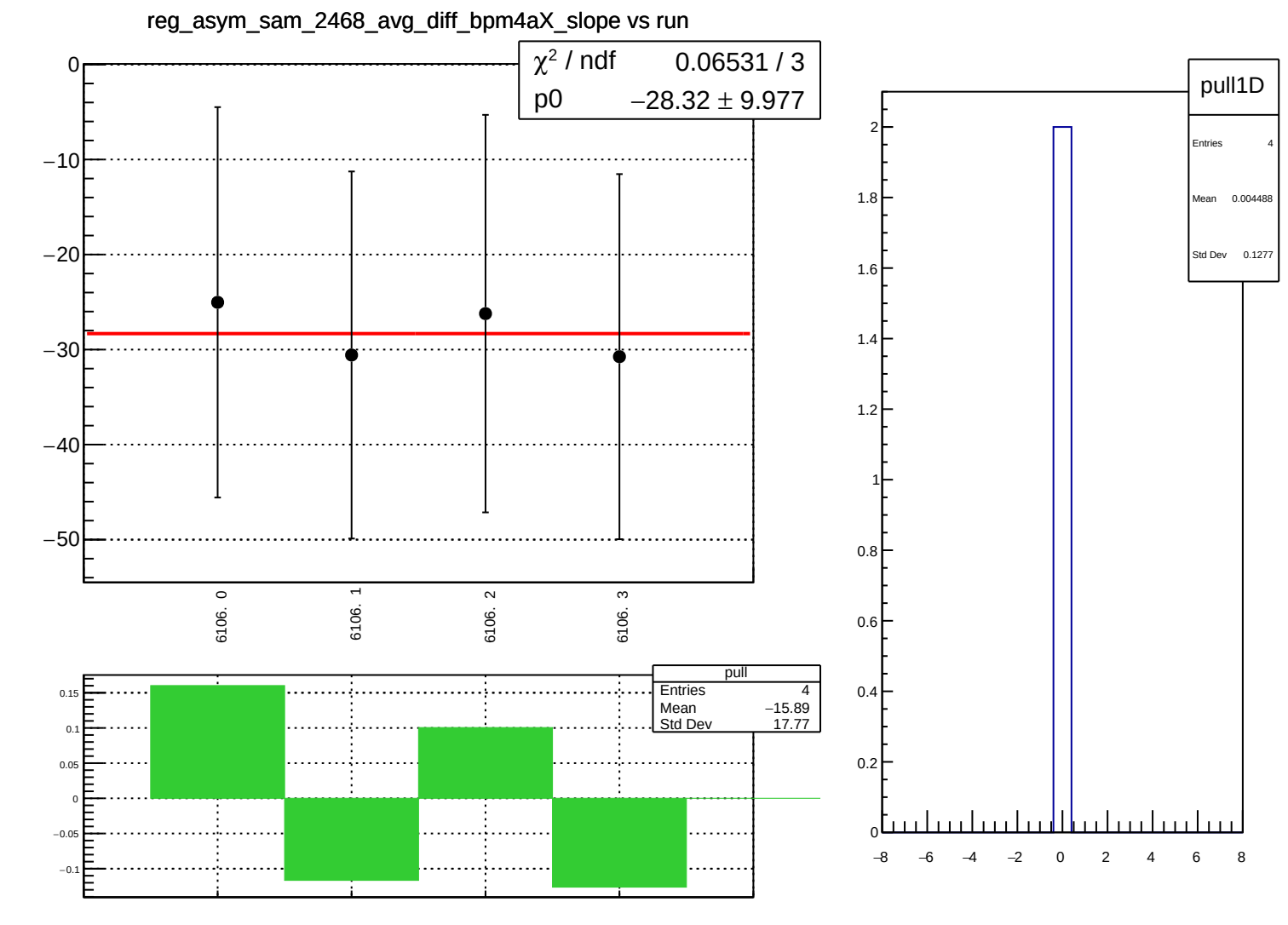

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.04936 / 3
p0 −33.78 ± 5.25
−20
−25
−30
−35
−40
−45
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −53.89
Std Dev 55.75
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean −0.001902
Std Dev 0.1111
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

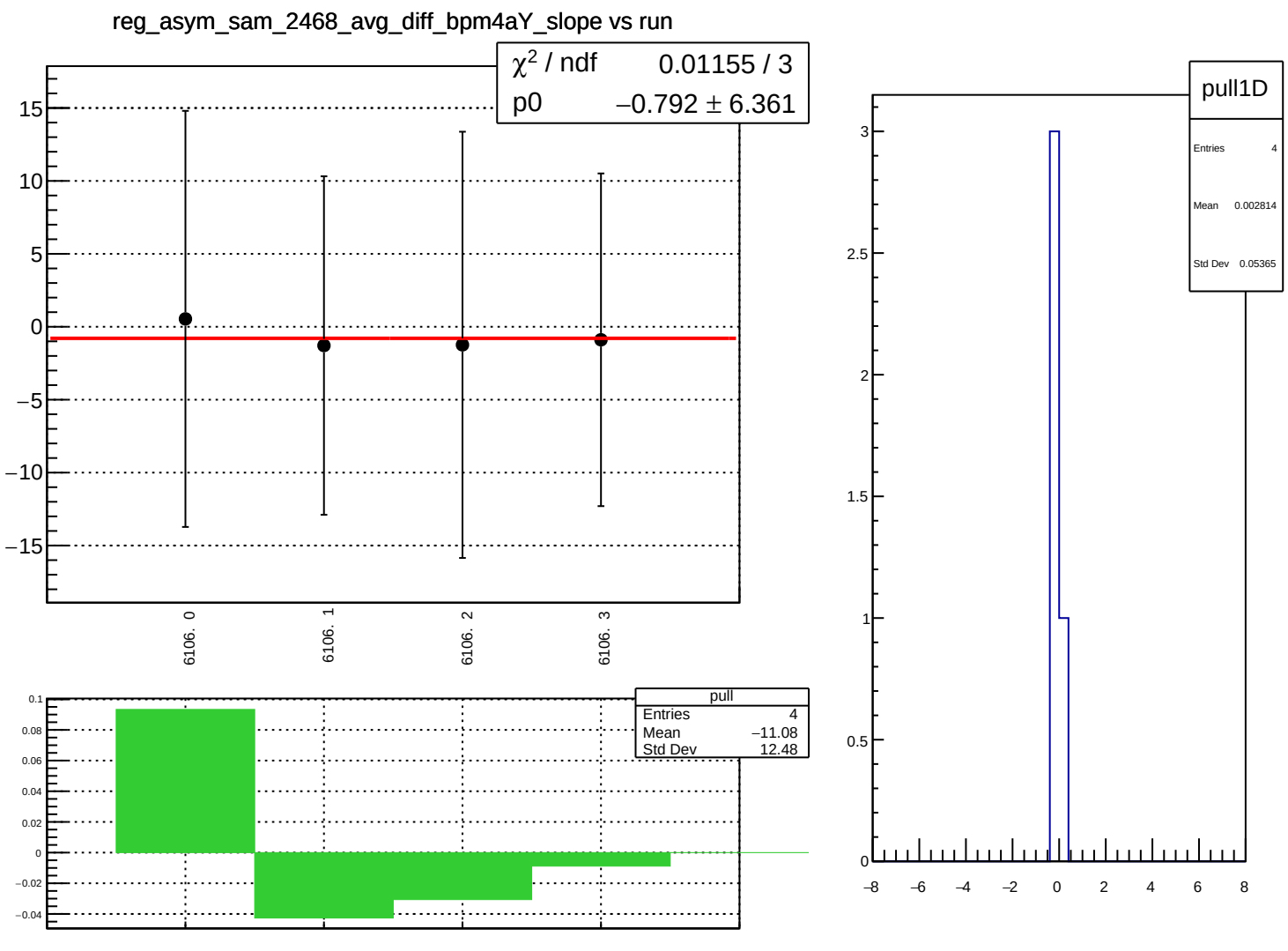

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.08272 / 3
p0 32.55 ± 3.06
40
38
36
34
32
30
28
26
24
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 2.44
Std Dev 4.258
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean −0.005882
Std Dev 0.1437
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

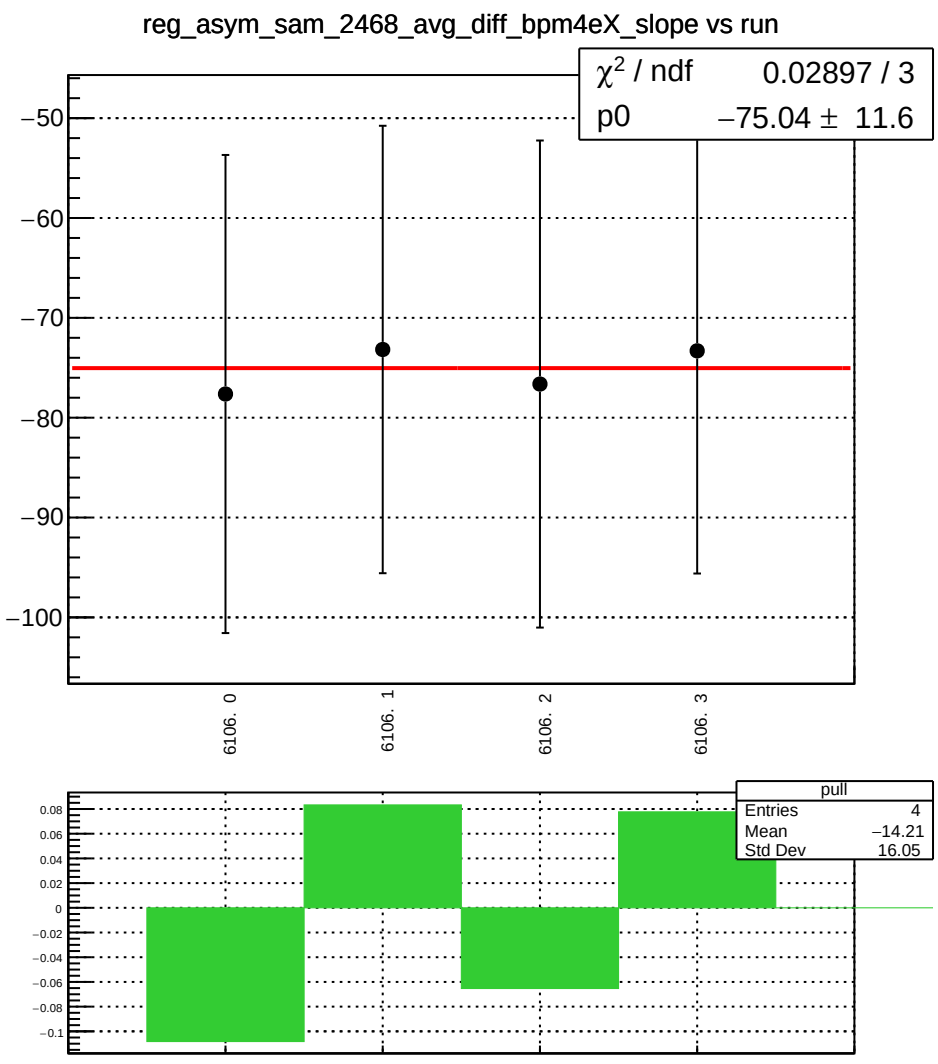

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 0.102 / 3
p0 −0.4219 ± 0.2186
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6106. 0
6106. 1
6106. 2
6106. 3

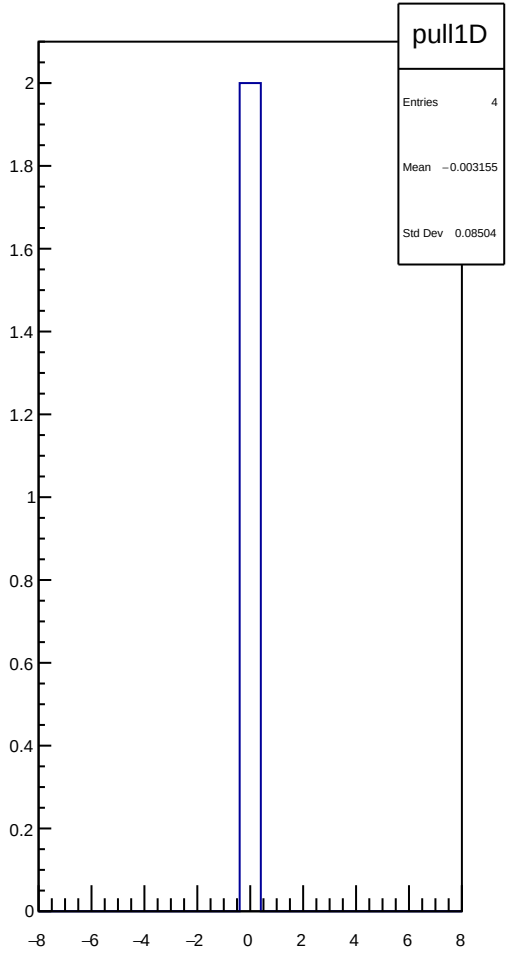

pull
Entries 4
Mean −5.18
Std Dev 7.559
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

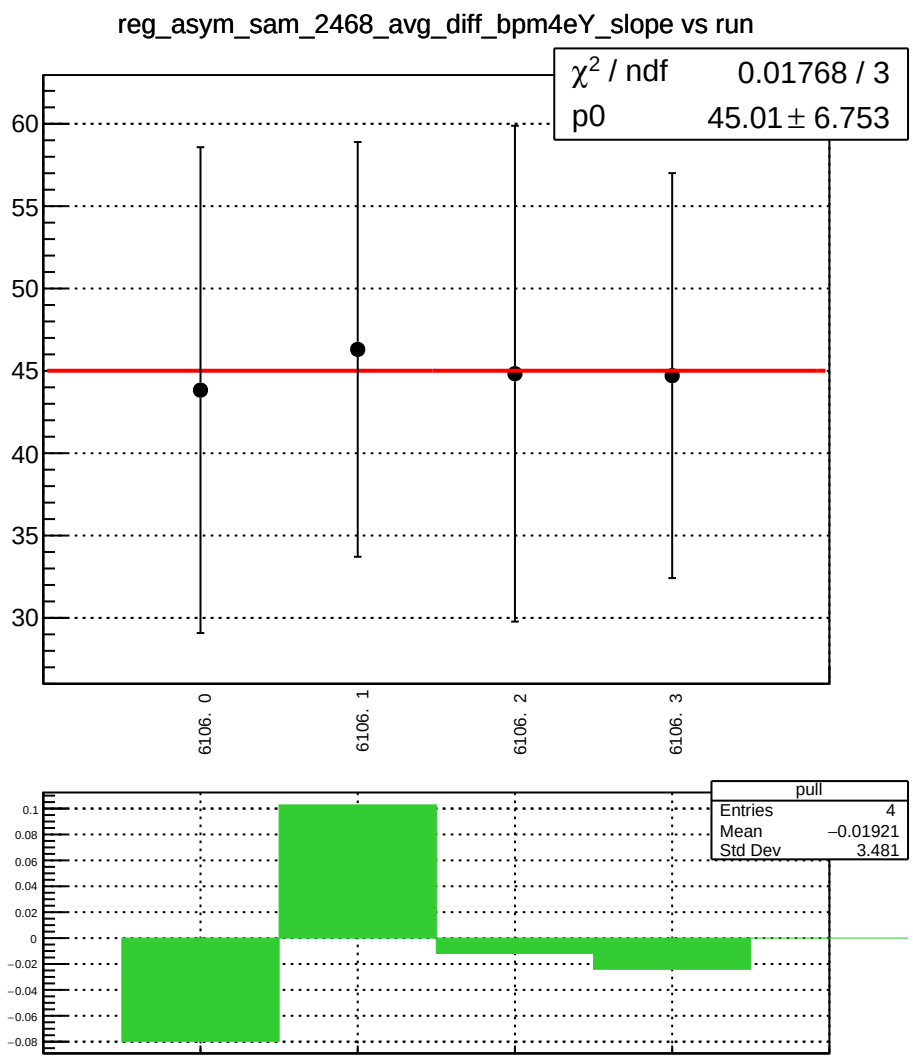

pull1D
Entries 4
Mean 0.004749
Std Dev 0.1596
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

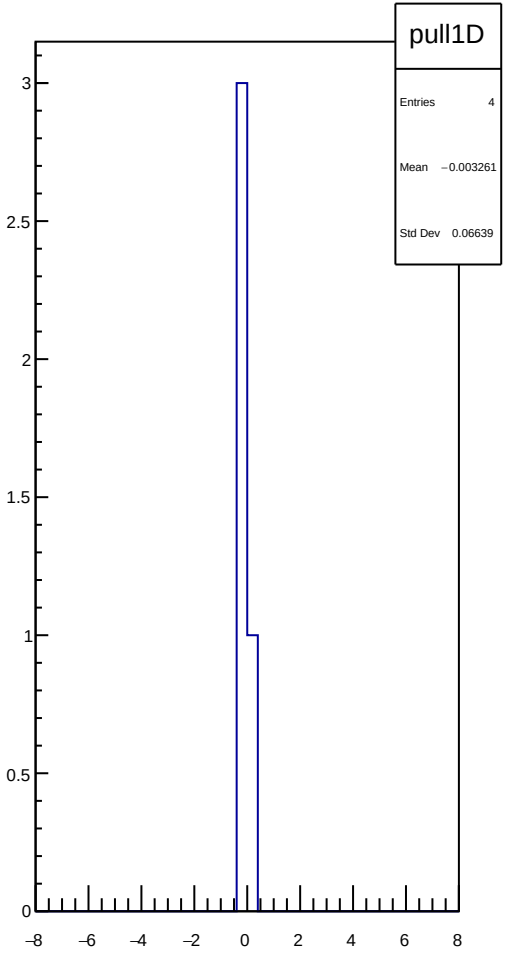

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.06531 / 3
p0 −28.32 ± 9.977
0
−10
−20
−30
−40
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −15.89
Std Dev 17.77
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean 0.004488
Std Dev 0.1277
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

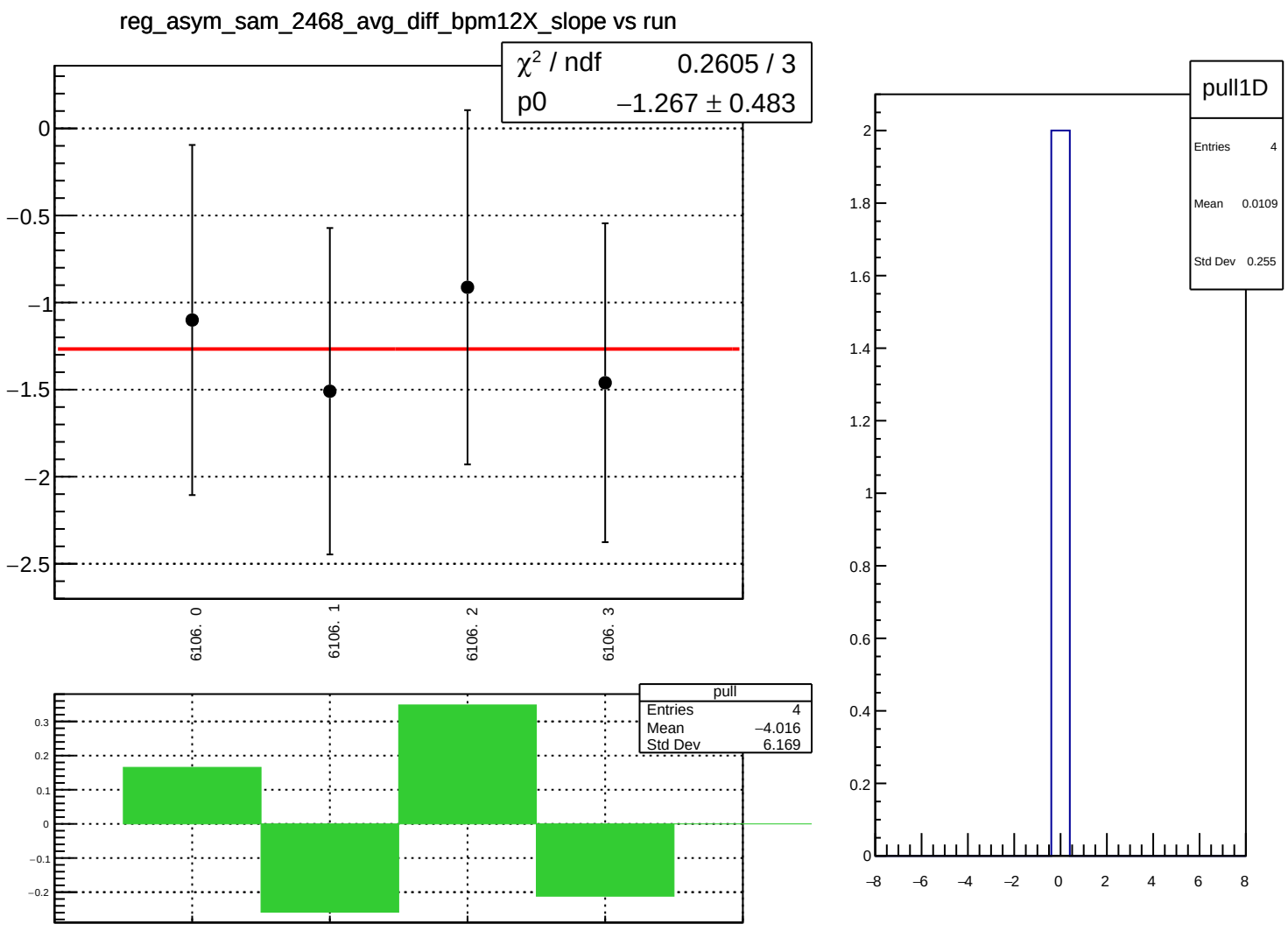

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.01155 / 3
p0 −0.792 ± 6.361
15
10
5
0
−5
−10
−15
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −11.08
Std Dev 12.48
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull1D
Entries 4
Mean 0.002814
Std Dev 0.05365
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

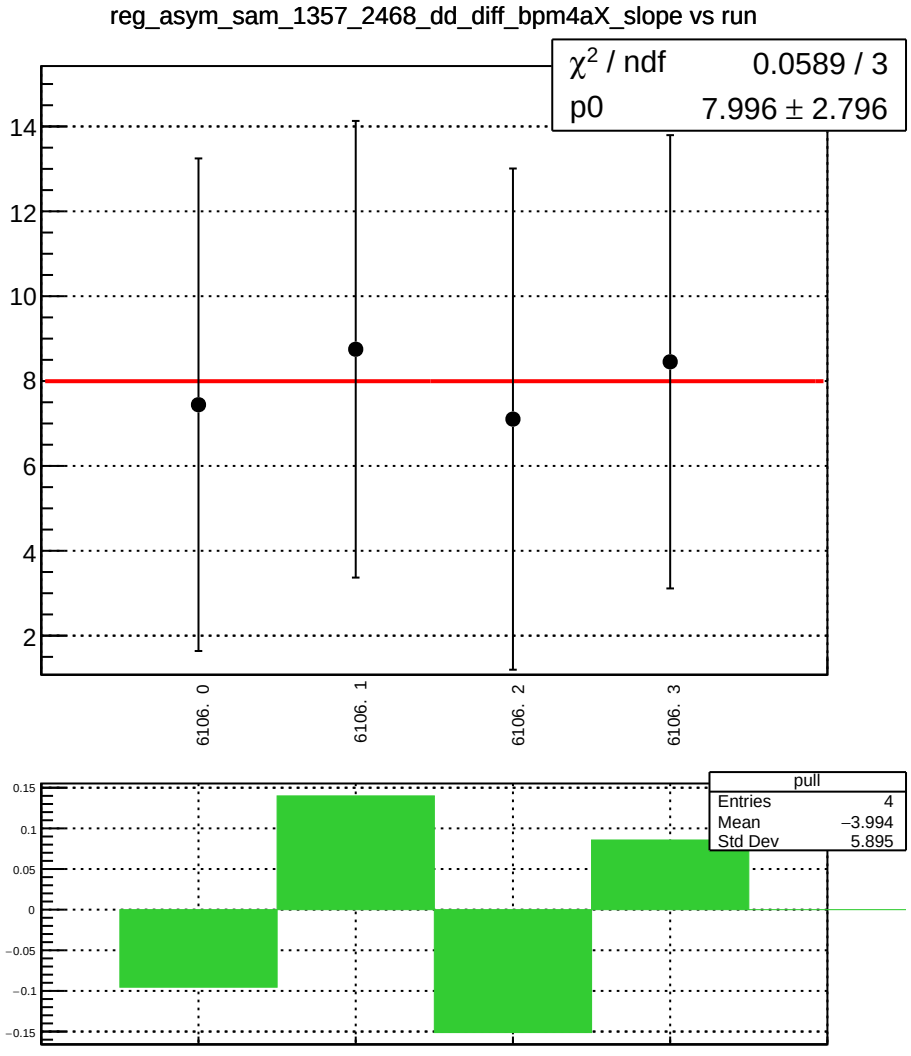

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.02897 / 3
p0 −75.04 ± 11.6
−50
−60
−70
−80
−90
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −14.21
Std Dev 16.05
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1

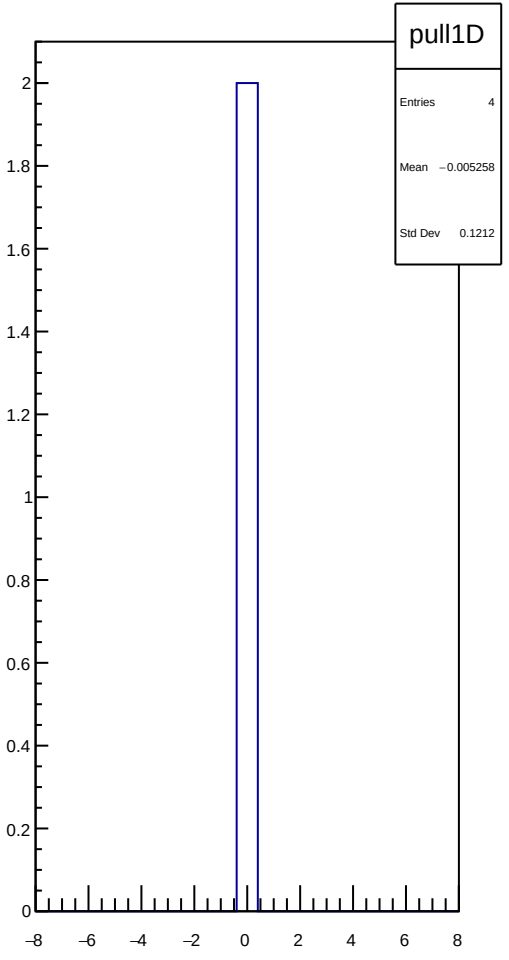

pull1D
Entries 4
Mean −0.003155
Std Dev 0.08504
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

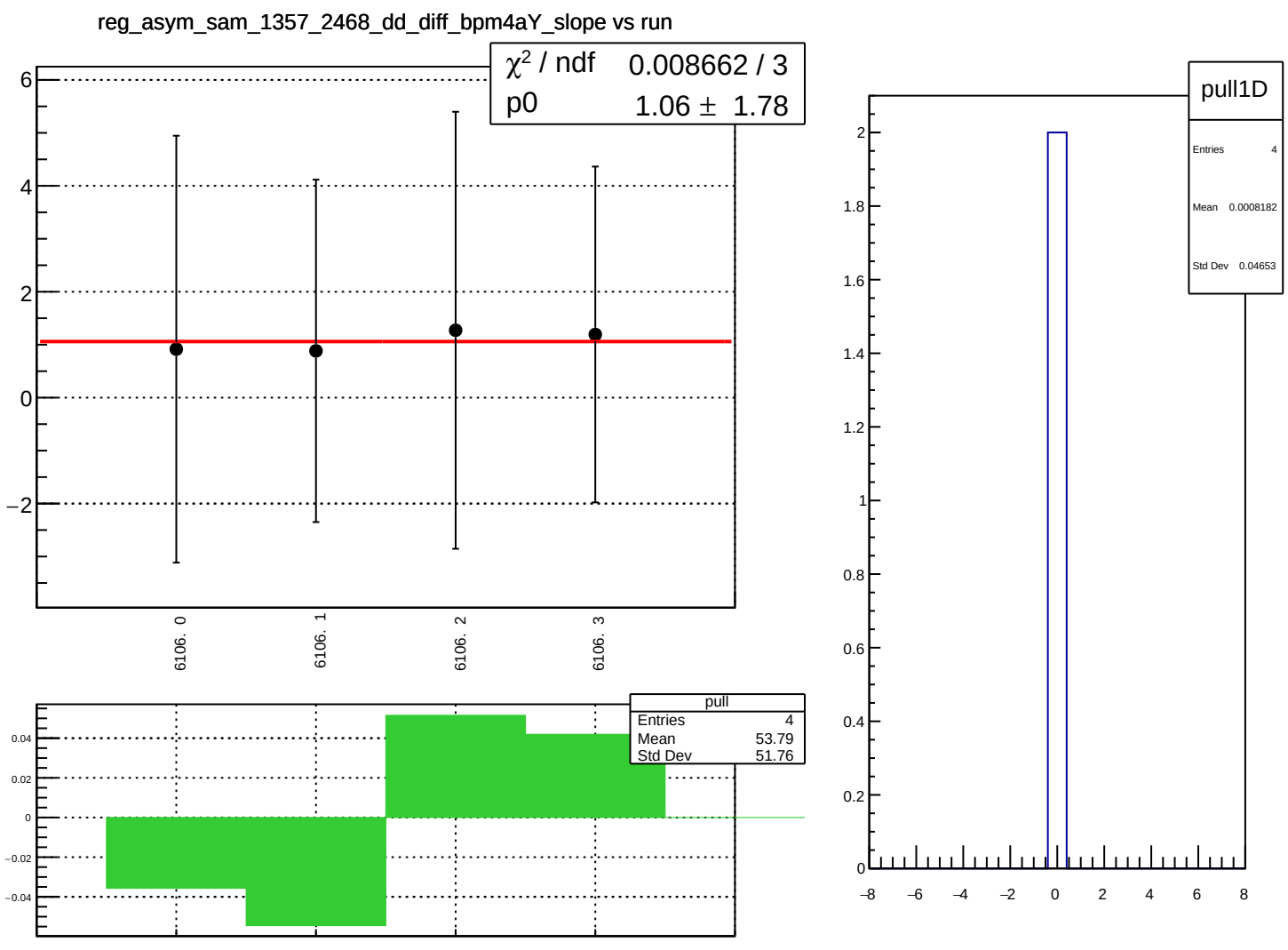

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.01768 / 3
p0 45.01 ± 6.753
60
55
50
45
40
35
30
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −0.01921
Std Dev 3.481
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

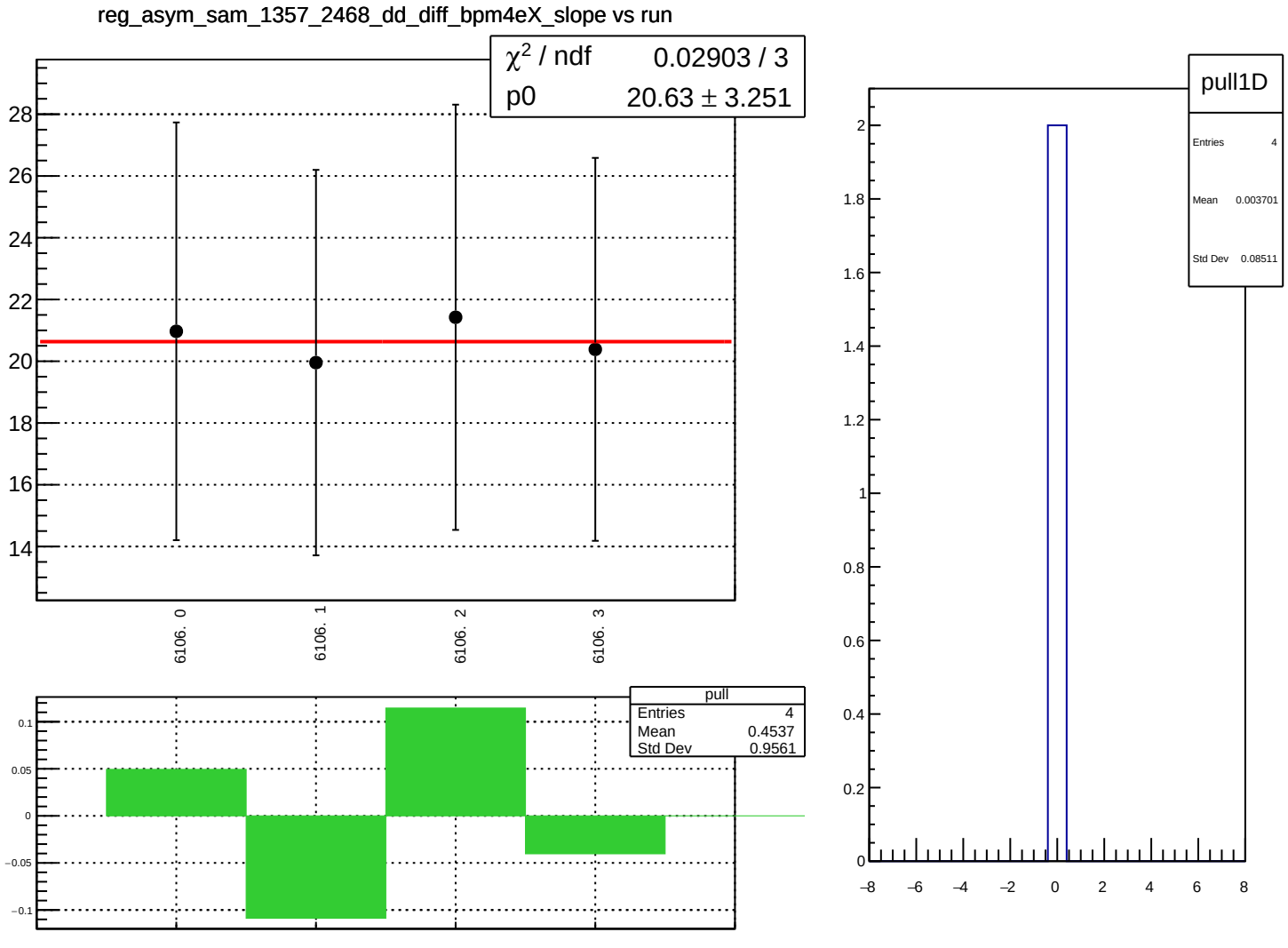

pull1D
Entries 4
Mean −0.003261
Std Dev 0.06639
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

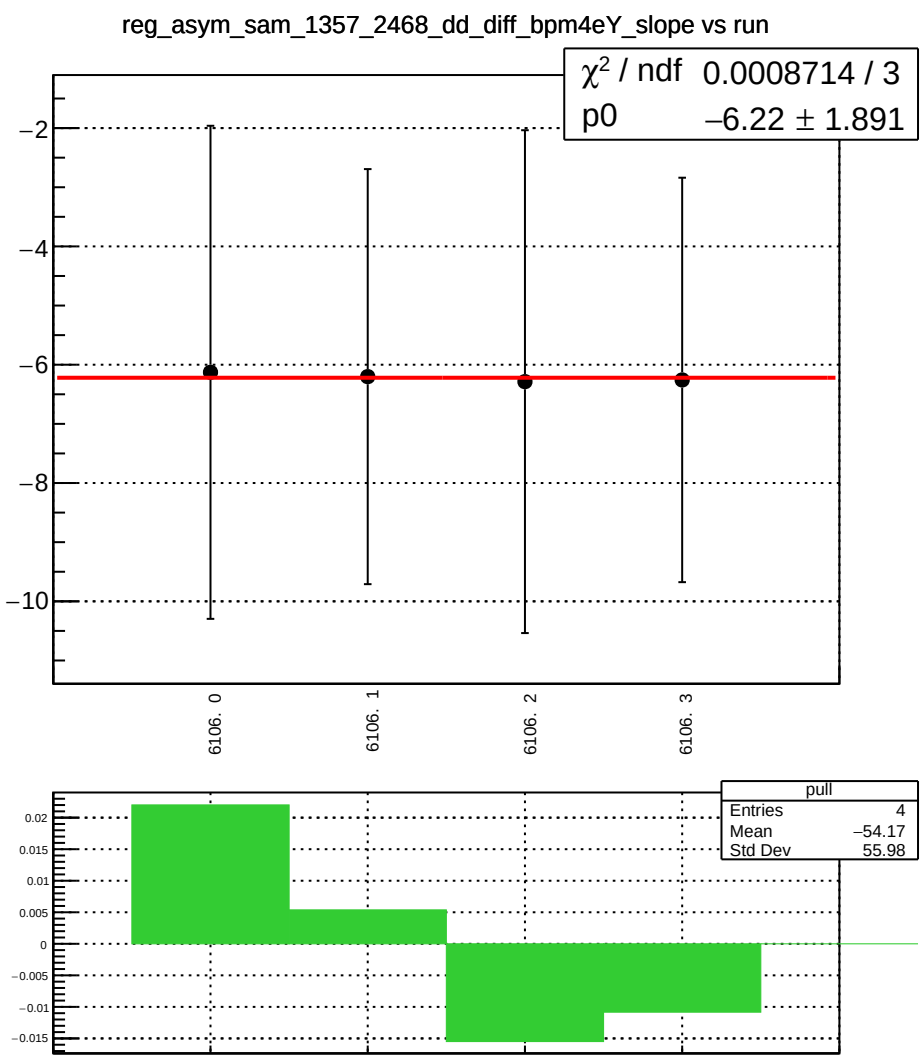

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.2605 / 3
p0 −1.267 ± 0.483
0
−0.5
−1
−1.5
−2
−2.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.016
Std Dev 6.169
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.0109
Std Dev 0.255
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

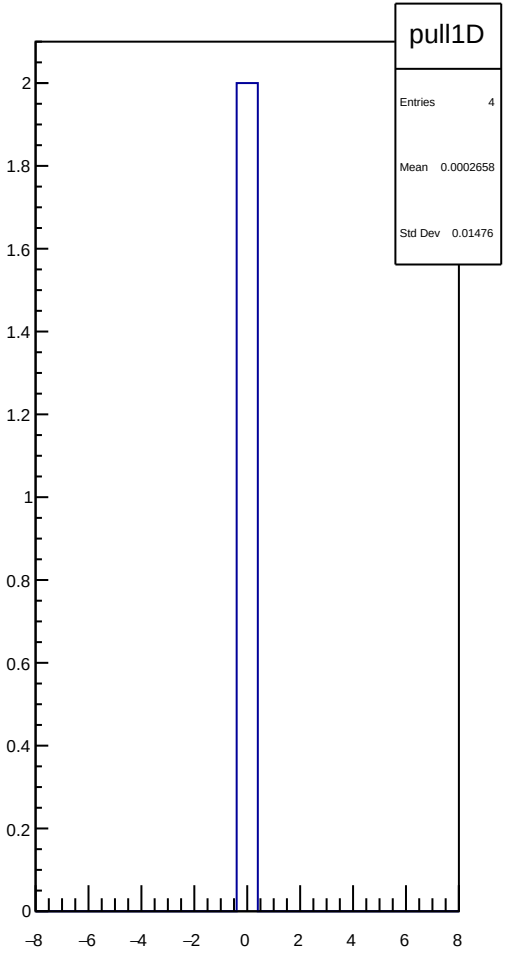

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.0589 / 3
p0 7.996 ± 2.796
14
12
10
8
6
4
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.994
Std Dev 5.895
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

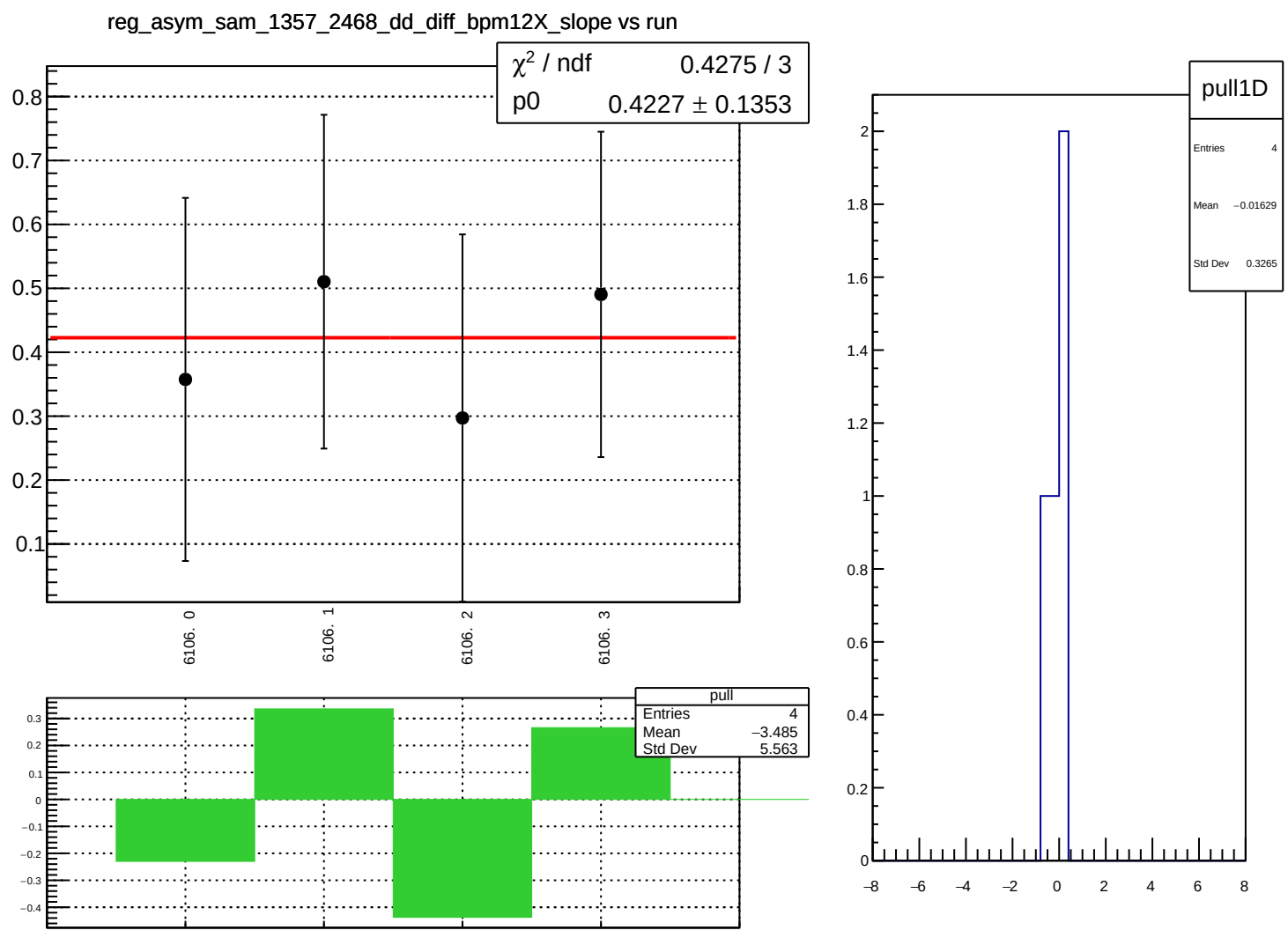

pull1D
Entries 4
Mean −0.005258
Std Dev 0.1212
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

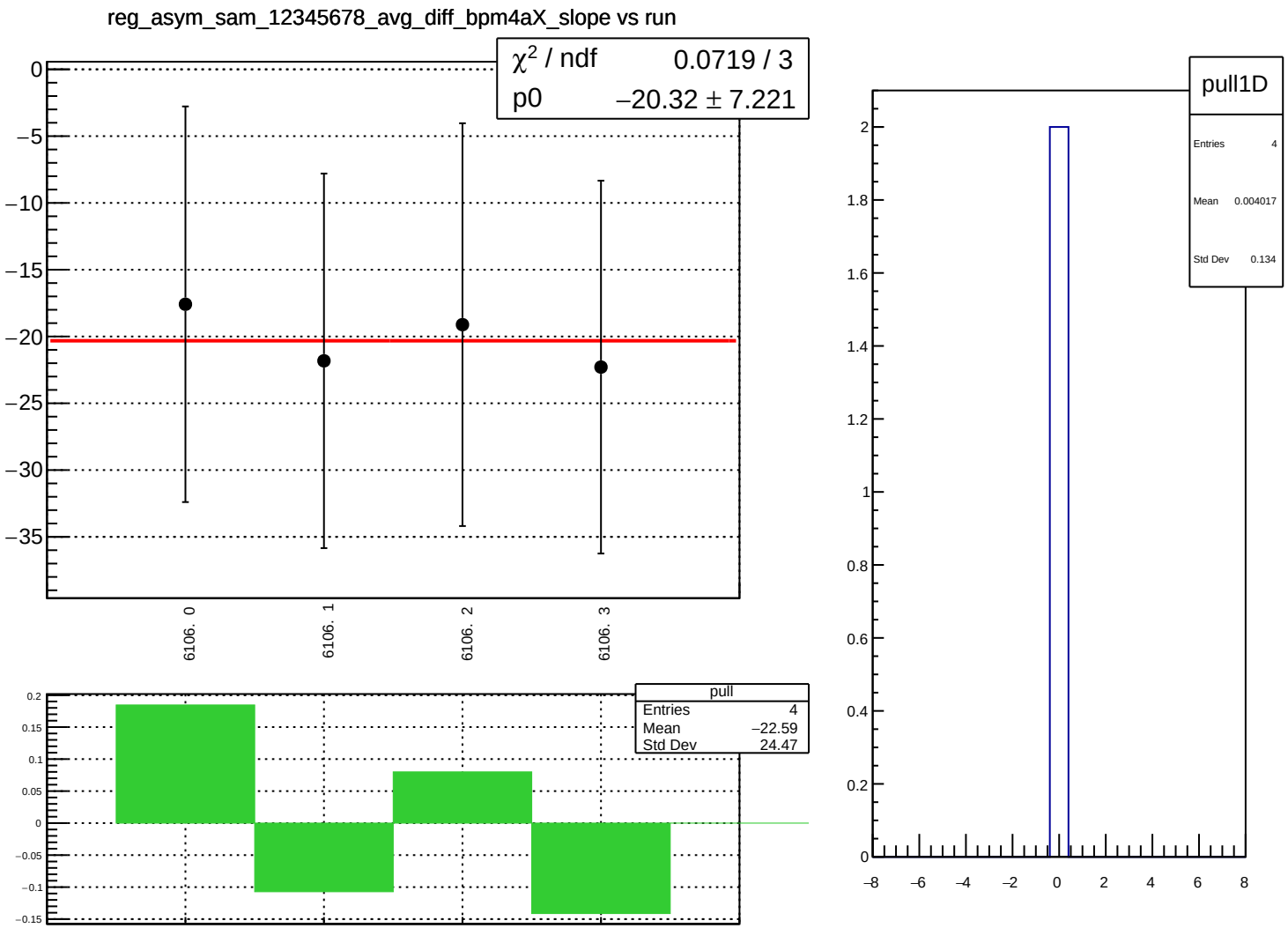

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.008662 / 3
p0 1.06 ± 1.78
6
4
2
0
−2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 53.79
Std Dev 51.76
0.04
0.02
0
−0.02
−0.04
pull1D
Entries 4
Mean 0.0008182
Std Dev 0.04653
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

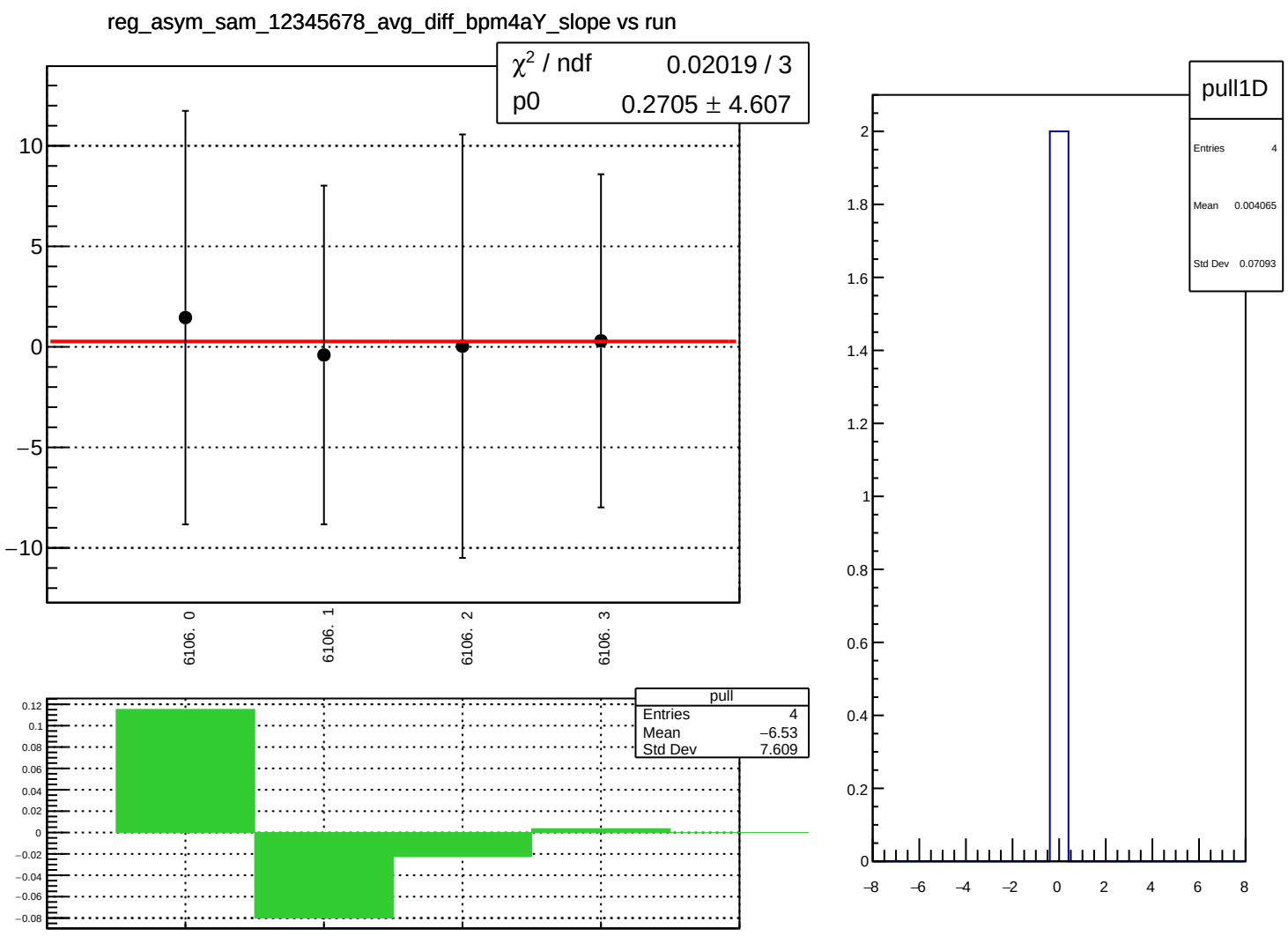

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.02903 / 3
p0 20.63 ± 3.251
28
26
24
22
20
18
16
14
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 0.4537
Std Dev 0.9561
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean 0.003701
Std Dev 0.08511
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

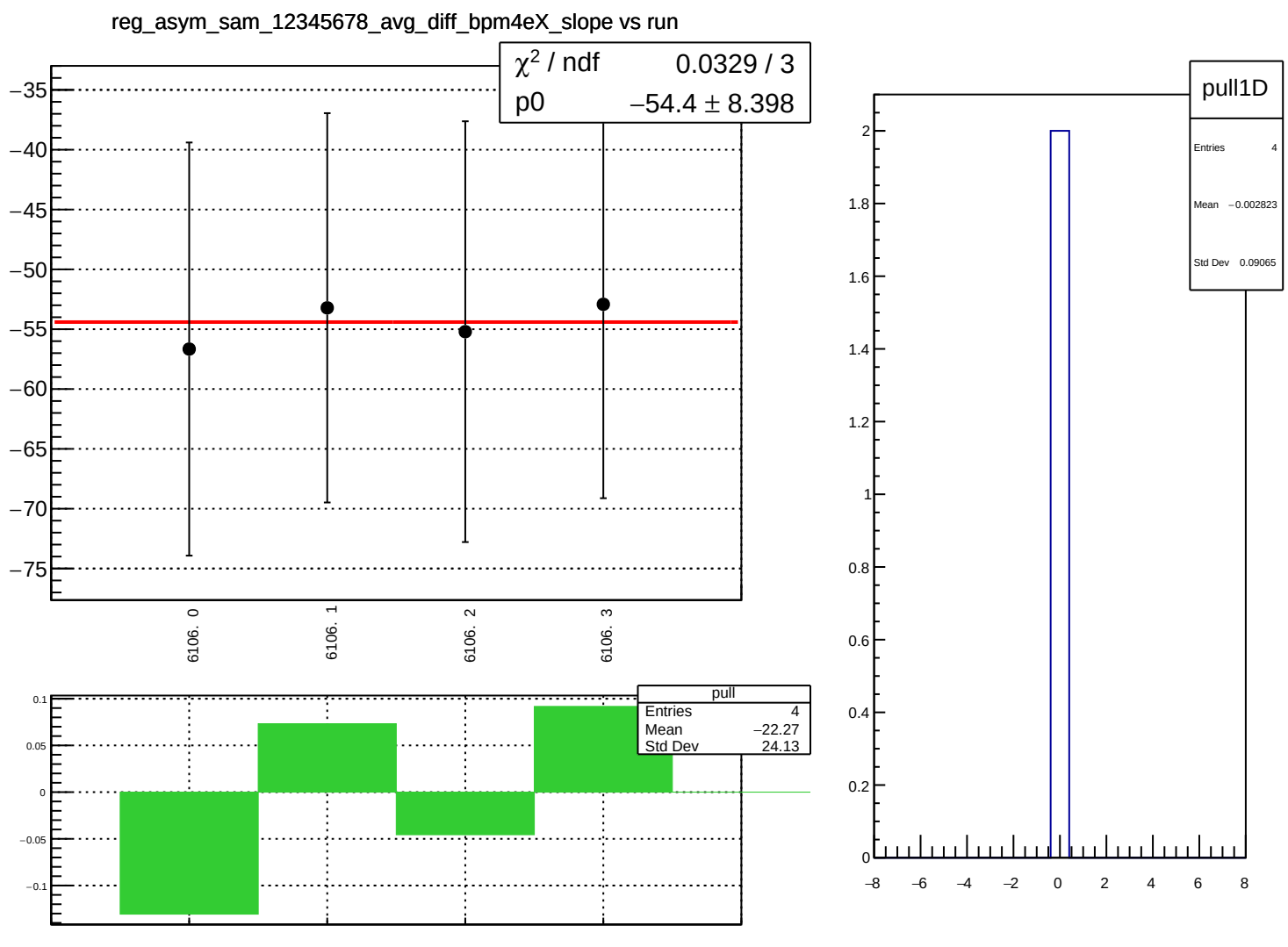

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.0008714 / 3
p0 −6.22 ± 1.891
−2
−4
−6
−8
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −54.17
Std Dev 55.98
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015

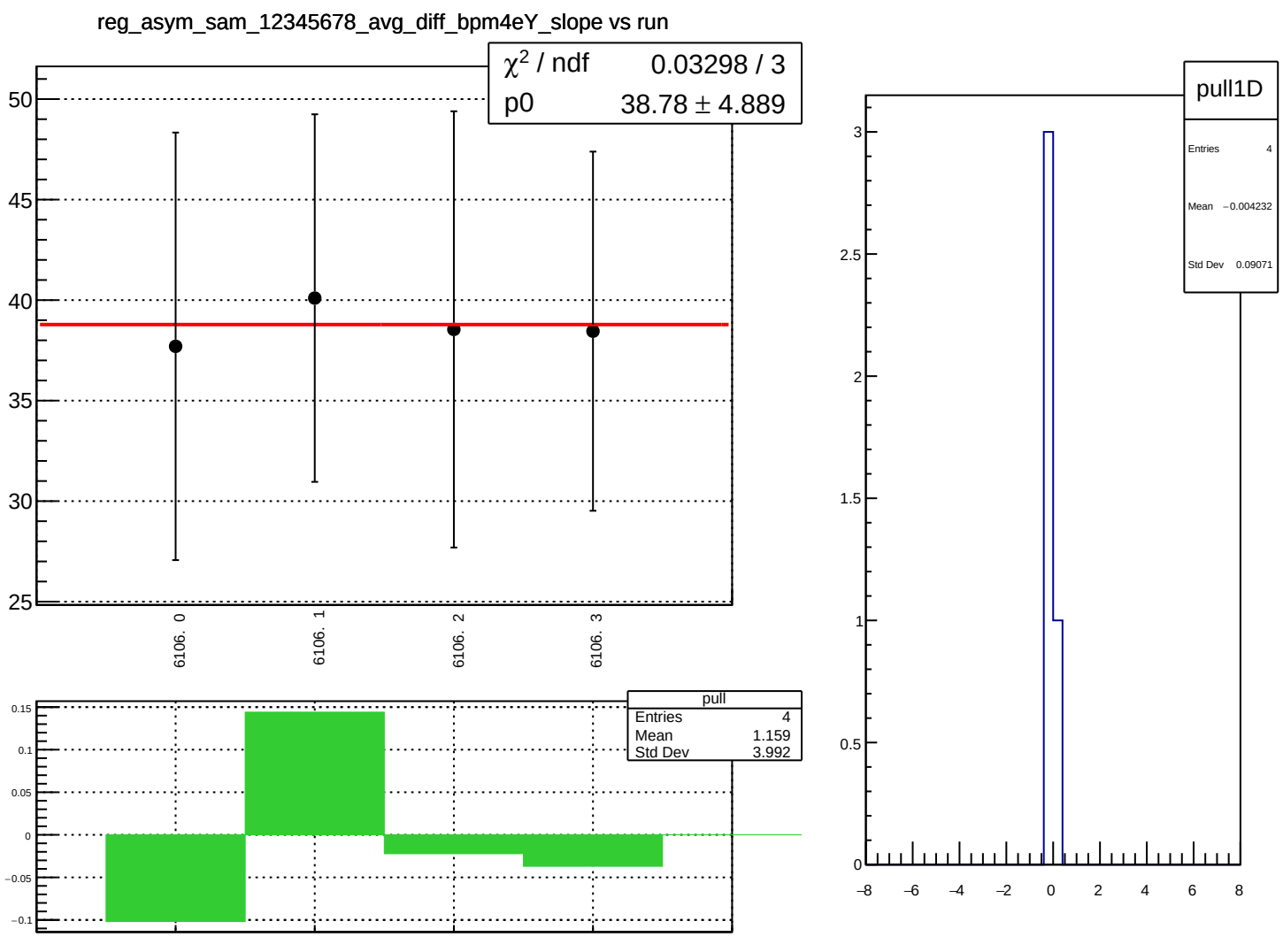

pull1D
Entries 4
Mean 0.0002658
Std Dev 0.01476
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

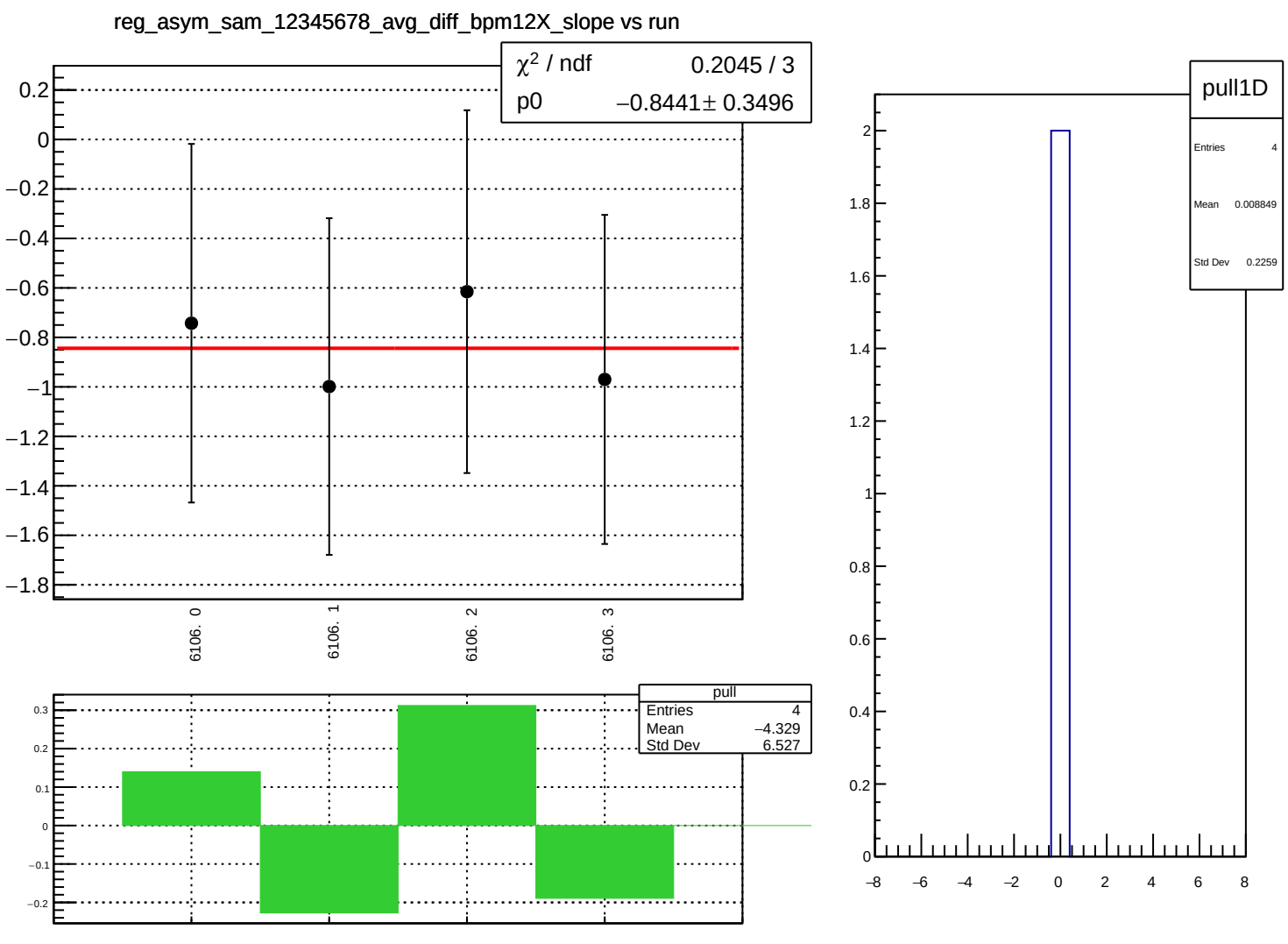

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4275 / 3
p0 0.4227 ± 0.1353
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.485
Std Dev 5.563
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 4
Mean −0.01629
Std Dev 0.3265
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

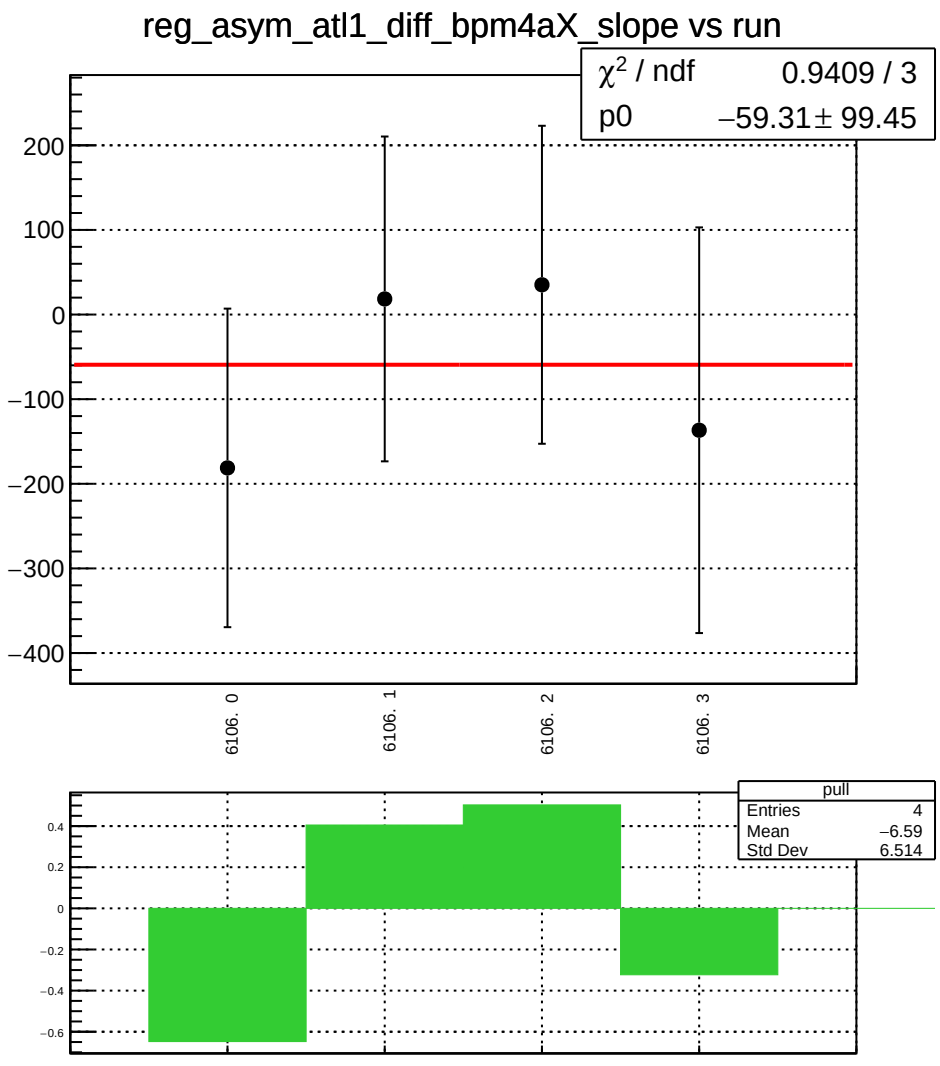

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.0719 / 3
p0 −20.32 ± 7.221
0
−5
−10
−15
−20
−25
−30
−35
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −22.59
Std Dev 24.47
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.004017
Std Dev 0.134
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

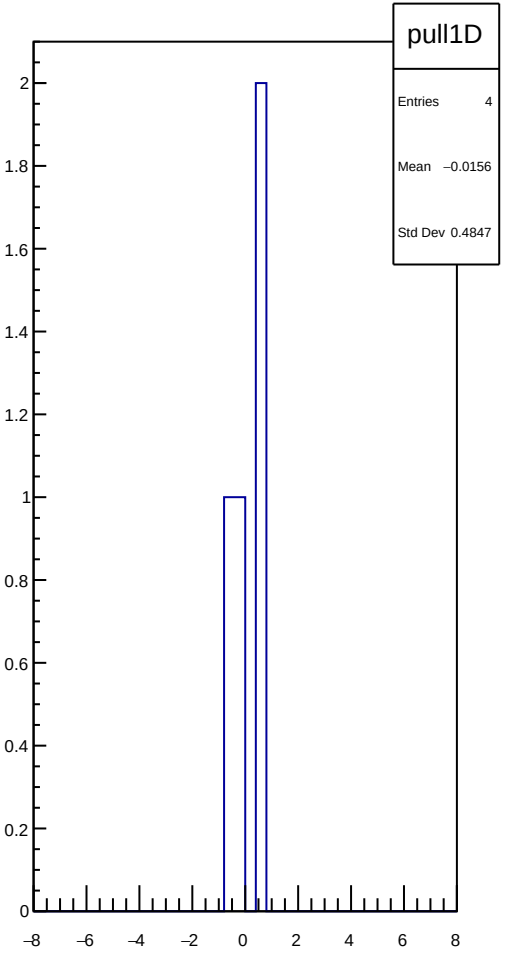

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.02019 / 3
p0 0.2705 ± 4.607
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −6.53
Std Dev 7.609
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean 0.004065
Std Dev 0.07093
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

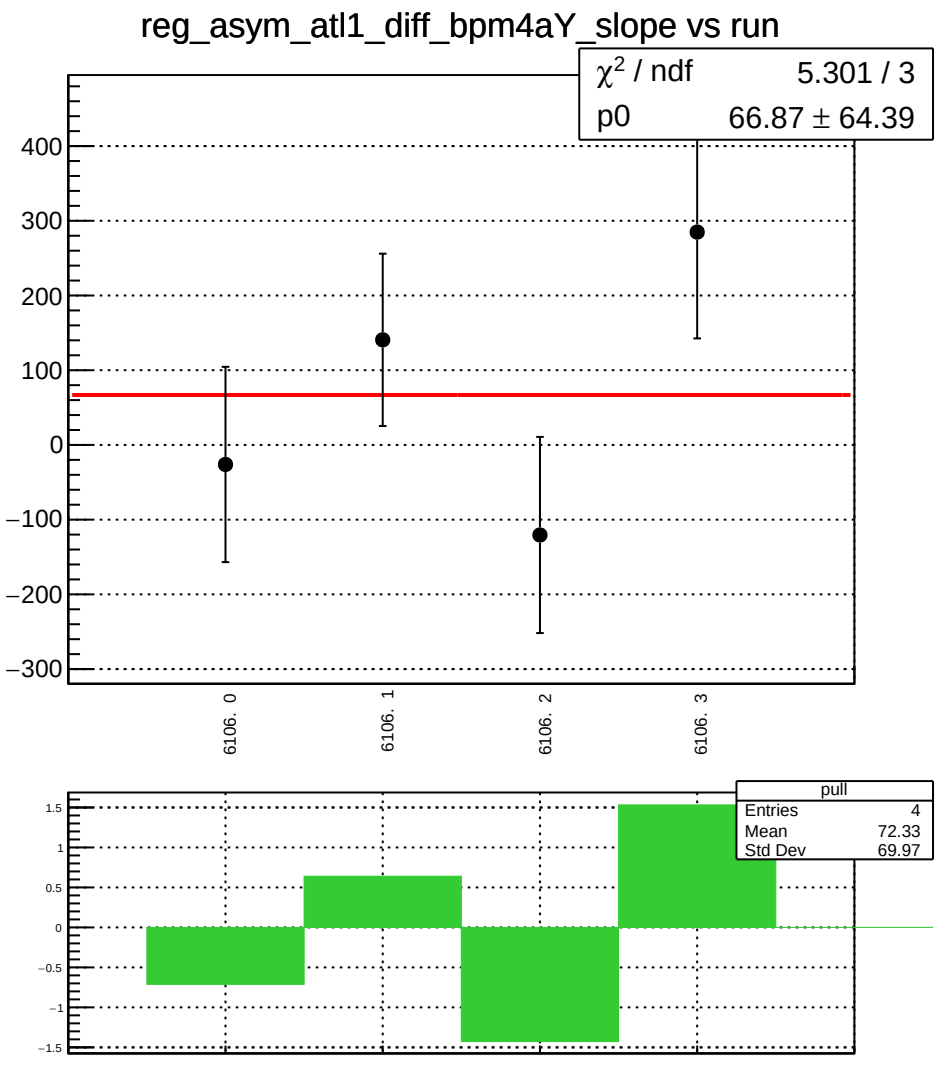

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.0329 / 3
p0 −54.4 ± 8.398
−35
−40
−45
−50
−55
−60
−65
−70
−75
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −22.27
Std Dev 24.13
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean −0.002823
Std Dev 0.09065
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

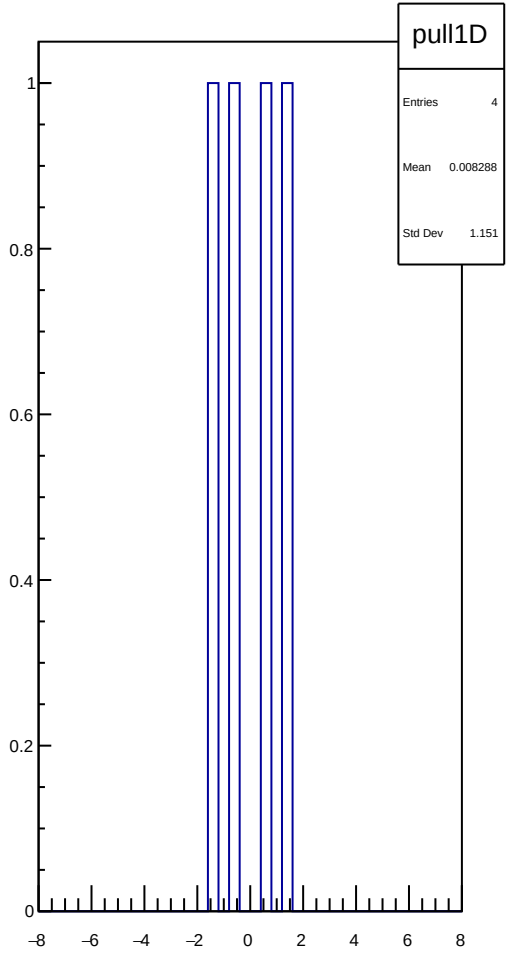

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.03298 / 3
p0 38.78 ± 4.889
50
45
40
35
30
25
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 1.159
Std Dev 3.992
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean −0.004232
Std Dev 0.09071
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

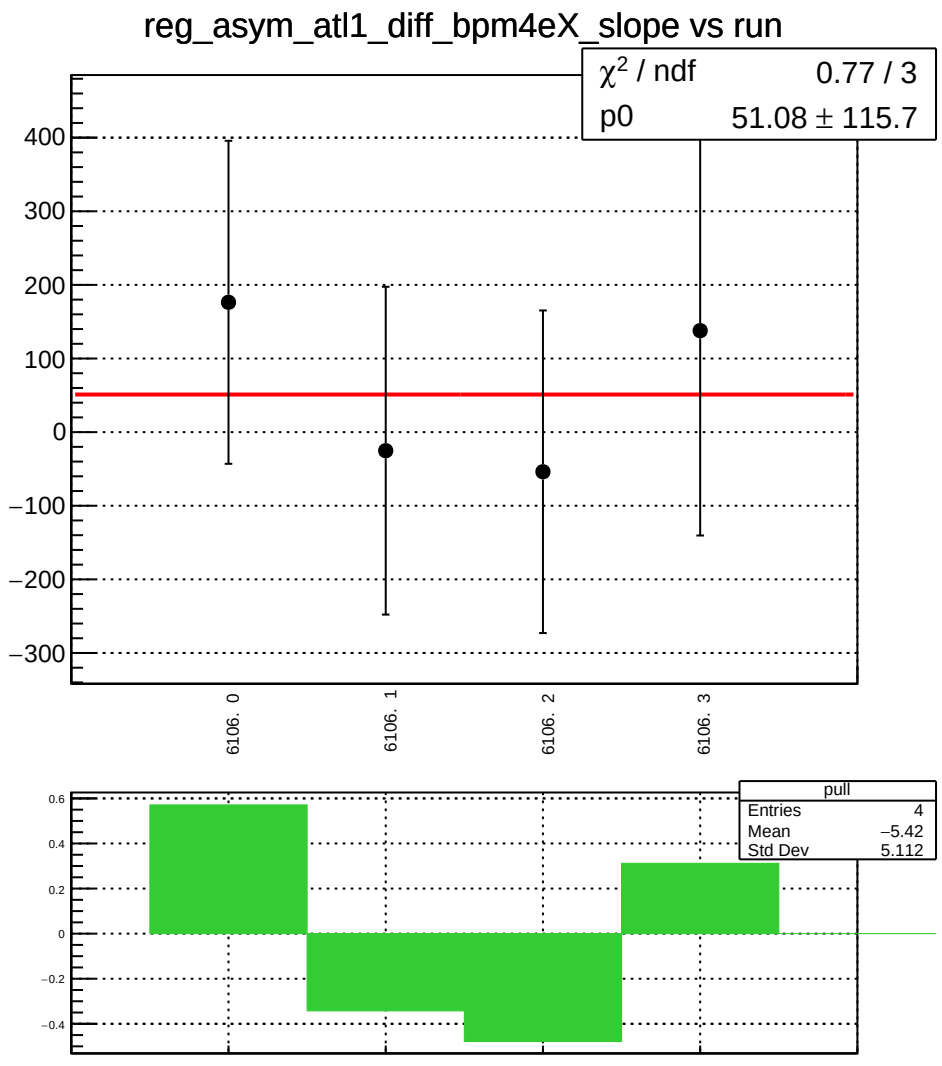

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.2045 / 3
p0 −0.8441± 0.3496
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.329
Std Dev 6.527
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.008849
Std Dev 0.2259
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

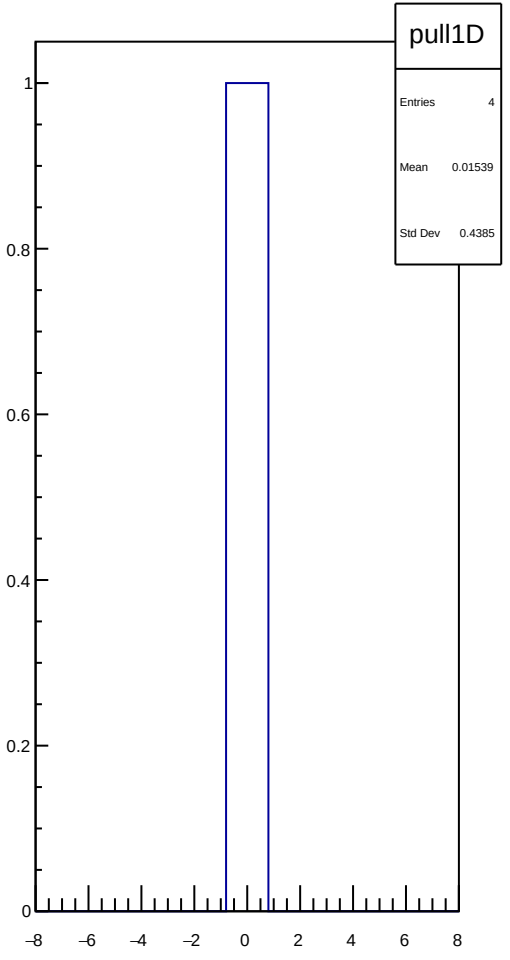

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 0.9409 / 3
p0 −59.31 ± 99.45
200
100
0
−100
−200
−300
−400
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −6.59
Std Dev 6.514
0.4
0.2
0
−0.2
−0.4
−0.6

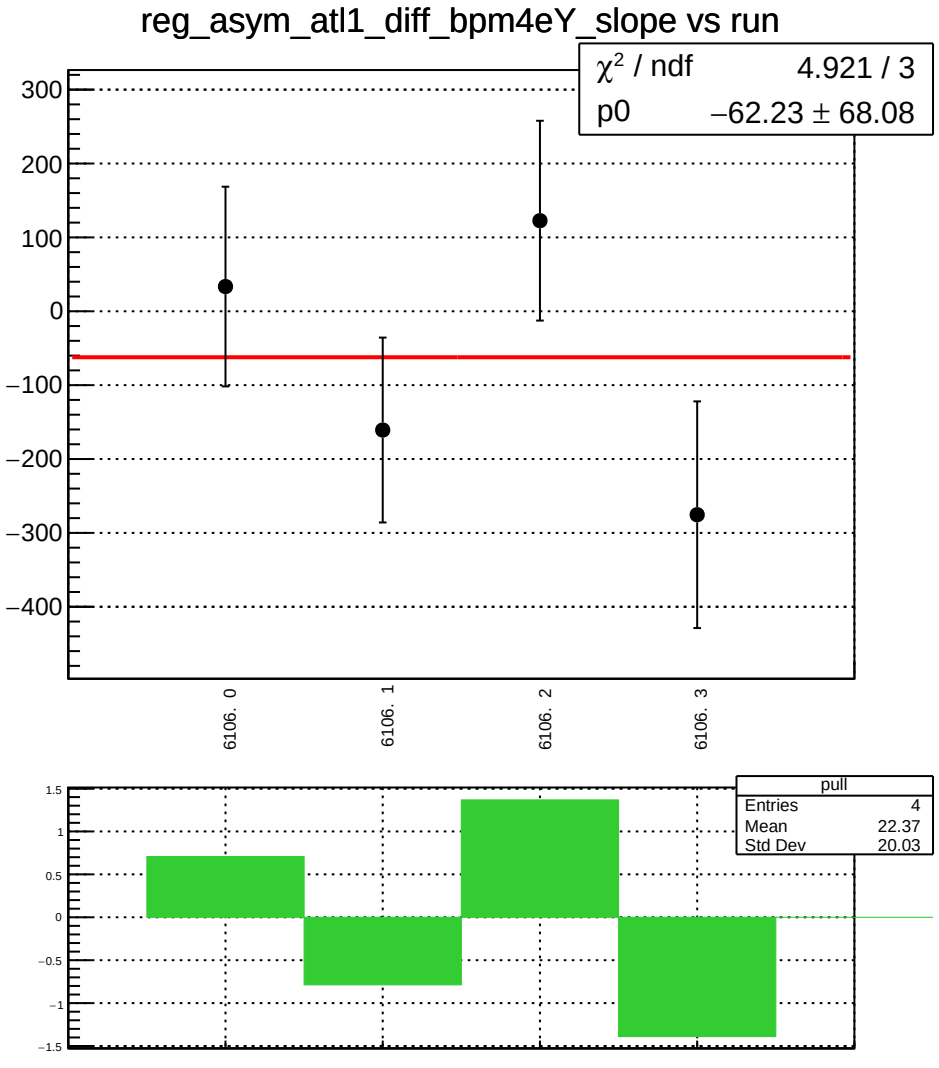

pull1D
Entries 4
Mean −0.0156
Std Dev 0.4847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

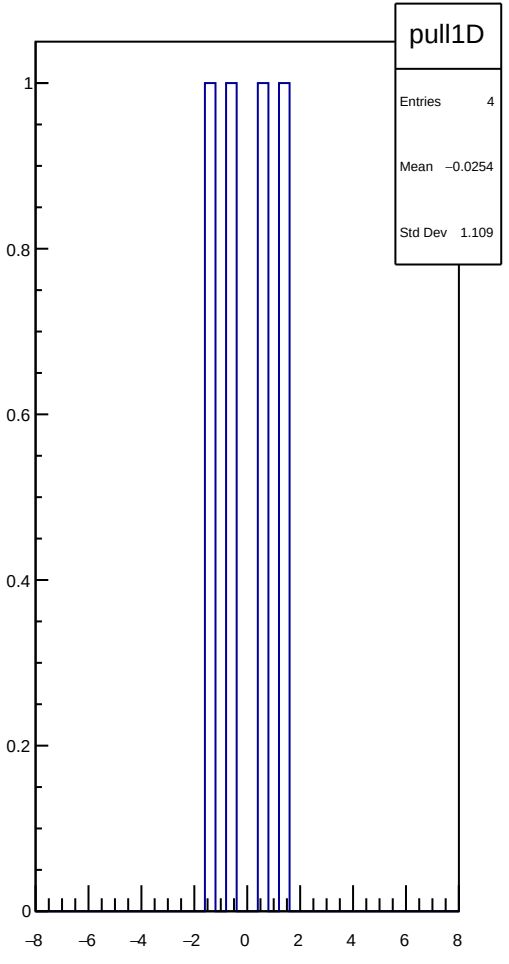

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 5.301 / 3
p0 66.87 ± 64.39
400
300
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 72.33
Std Dev 69.97
1.5
1
0.5
0
−0.5
−1
−1.5

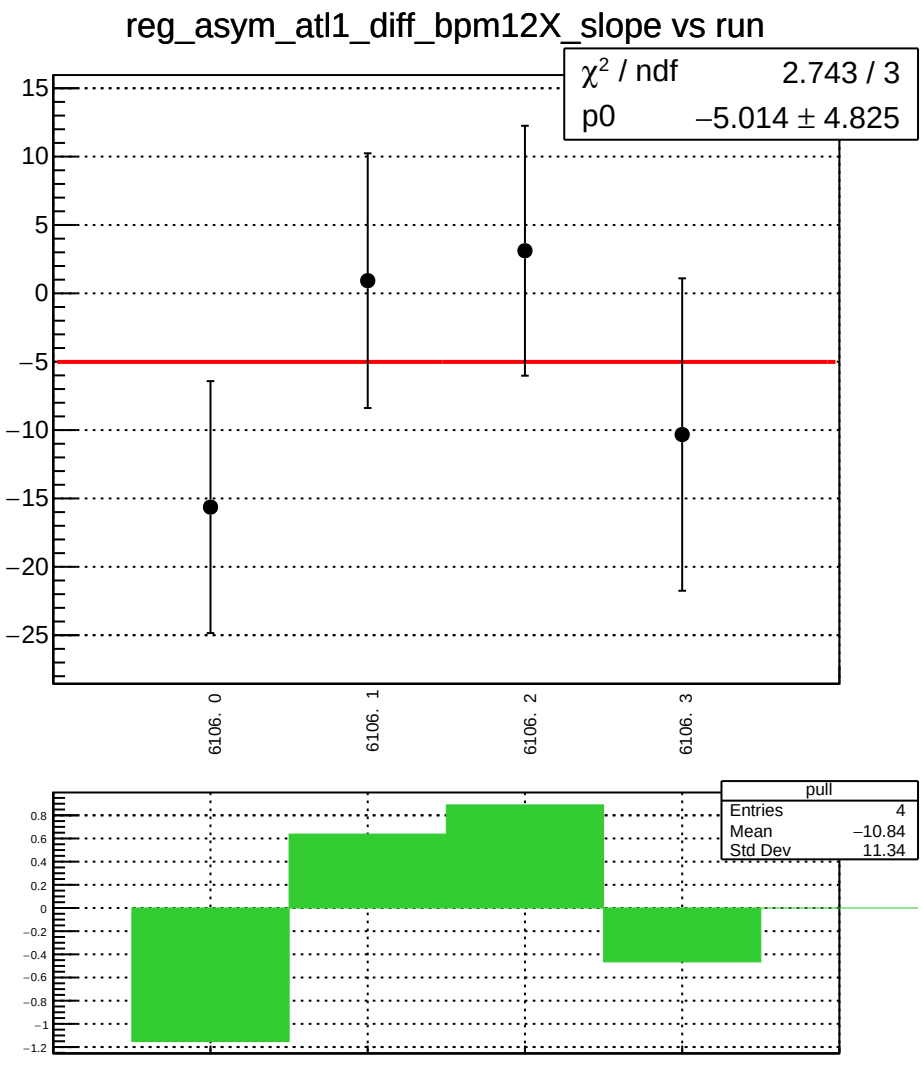

pull1D
Entries 4
Mean 0.008288
Std Dev 1.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

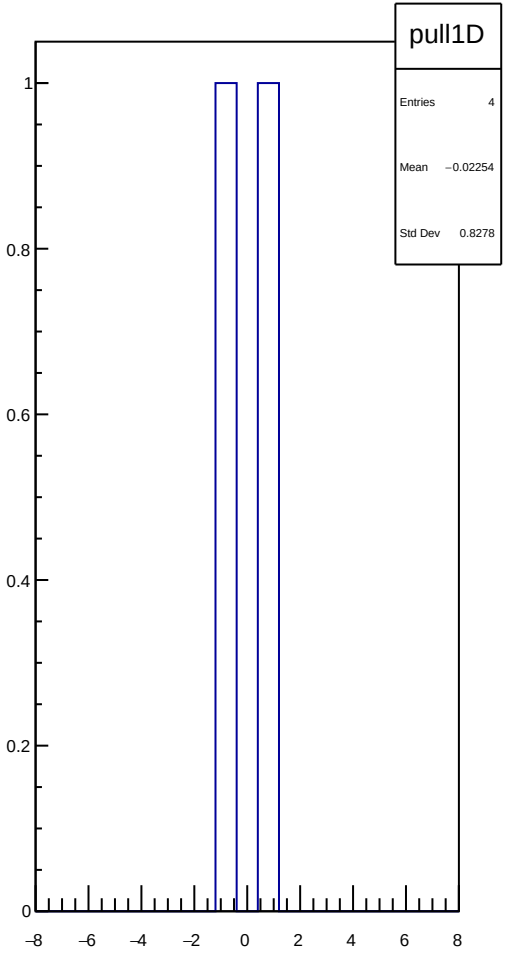

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 0.77 / 3
p0 51.08 ± 115.7
400
300
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −5.42
Std Dev 5.112
0.6
0.4
0.2
0
−0.2
−0.4

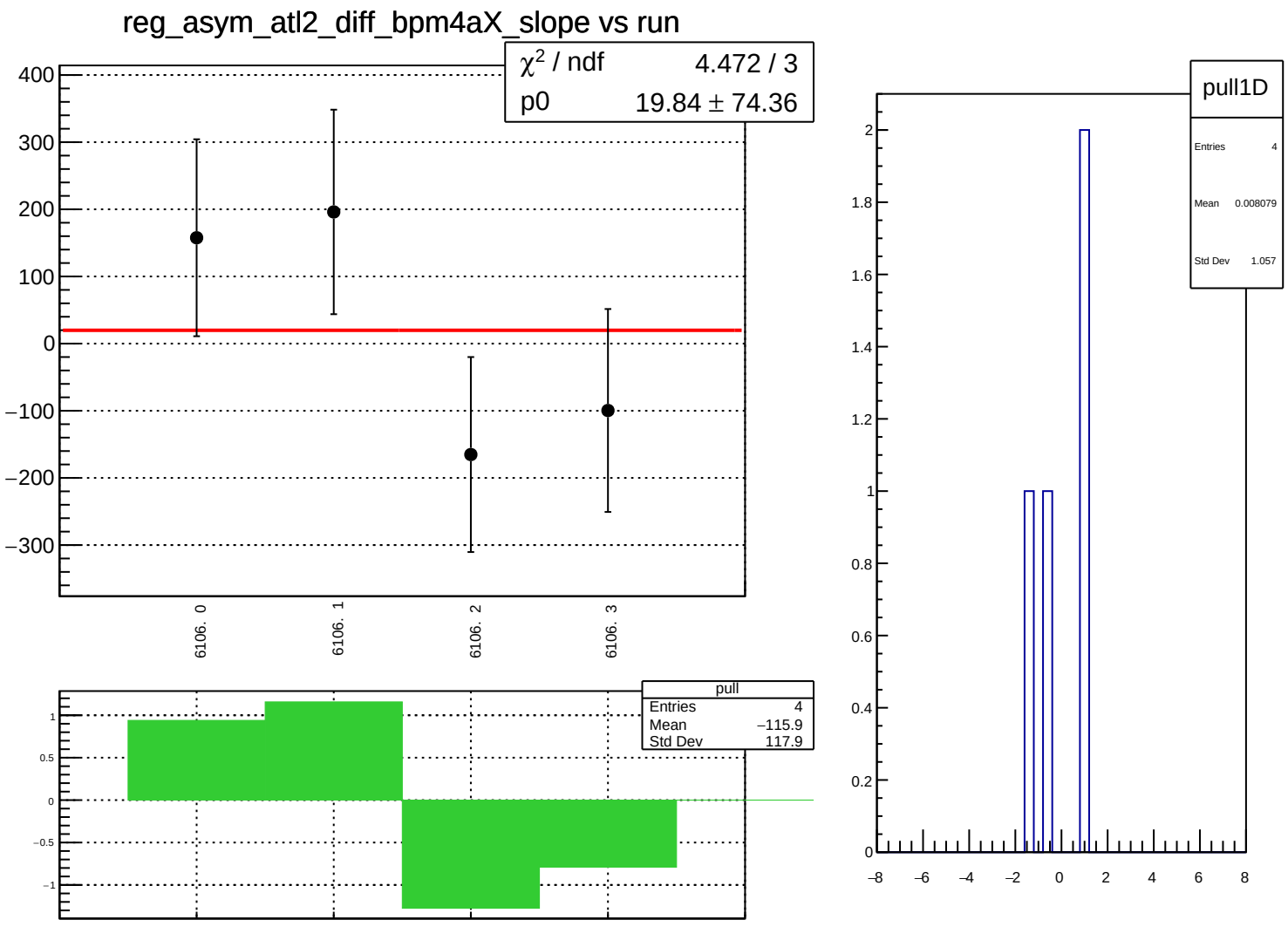

pull1D
Entries 4
Mean 0.01539
Std Dev 0.4385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

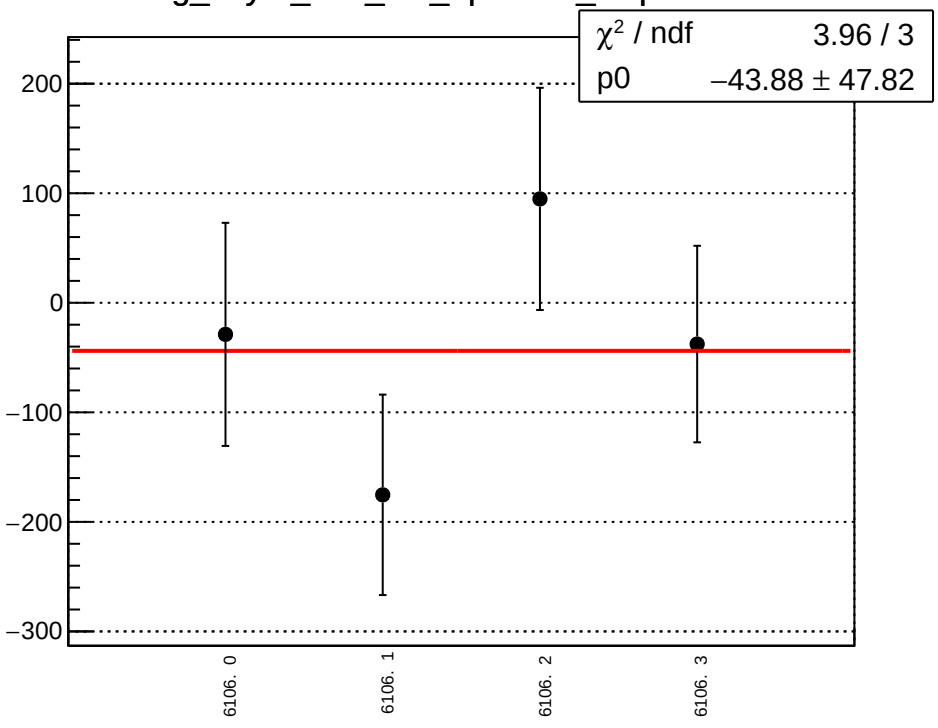

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 4.921 / 3
p0 −62.23 ± 68.08
300
200
100
0
−100
−200
−300
−400
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 22.37
Std Dev 20.03
1.5
1
0.5
0
−0.5
−1
−1.5

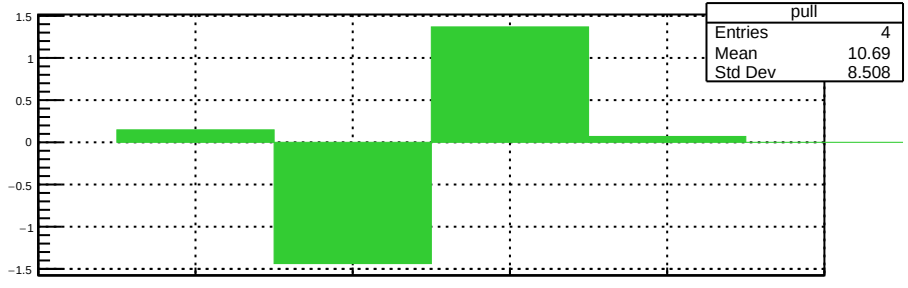

pull1D
Entries 4
Mean −0.0254
Std Dev 1.109
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

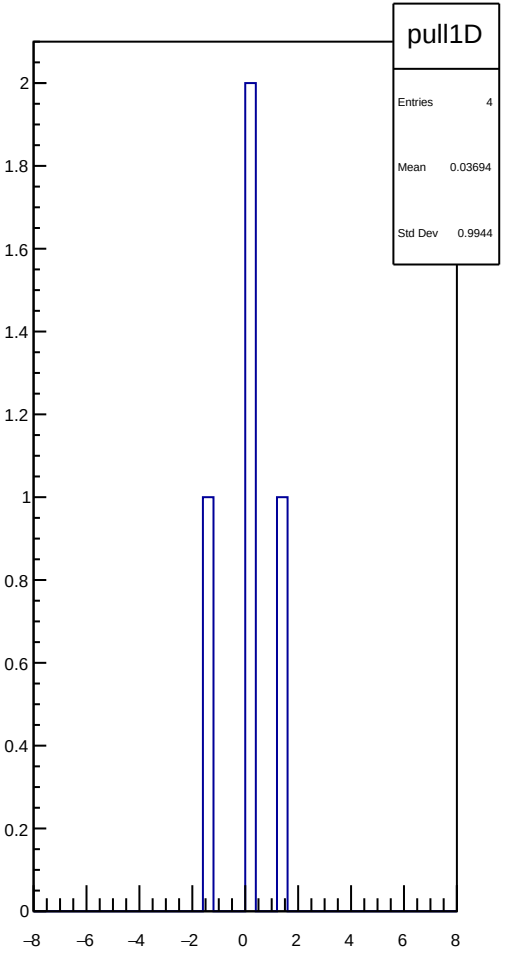

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 2.743 / 3
p0 −5.014 ± 4.825
15
10
5
0
−5
−10
−15
−20
−25
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −10.84
Std Dev 11.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

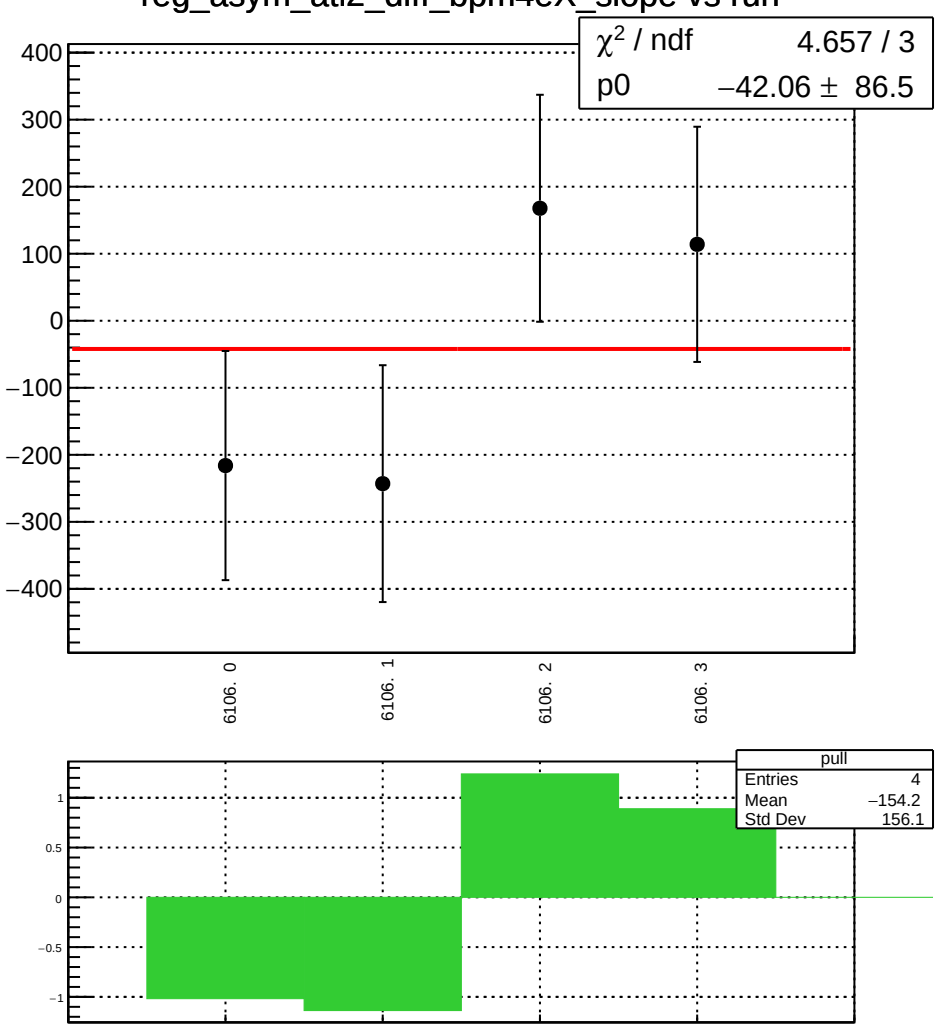

pull1D
Entries 4
Mean −0.02254
Std Dev 0.8278
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

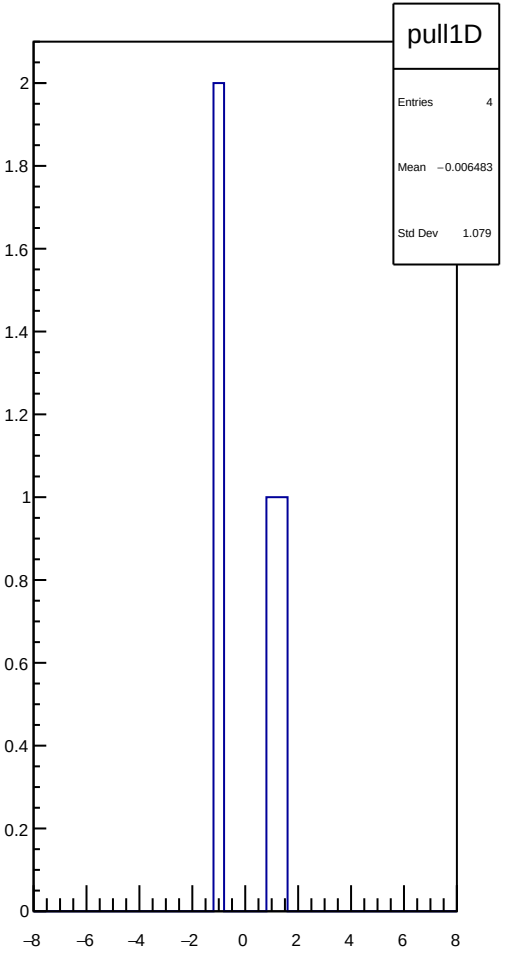

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 4.472 / 3
p0 19.84 ± 74.36
400
300
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −115.9
Std Dev 117.9
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean 0.008079
Std Dev 1.057
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

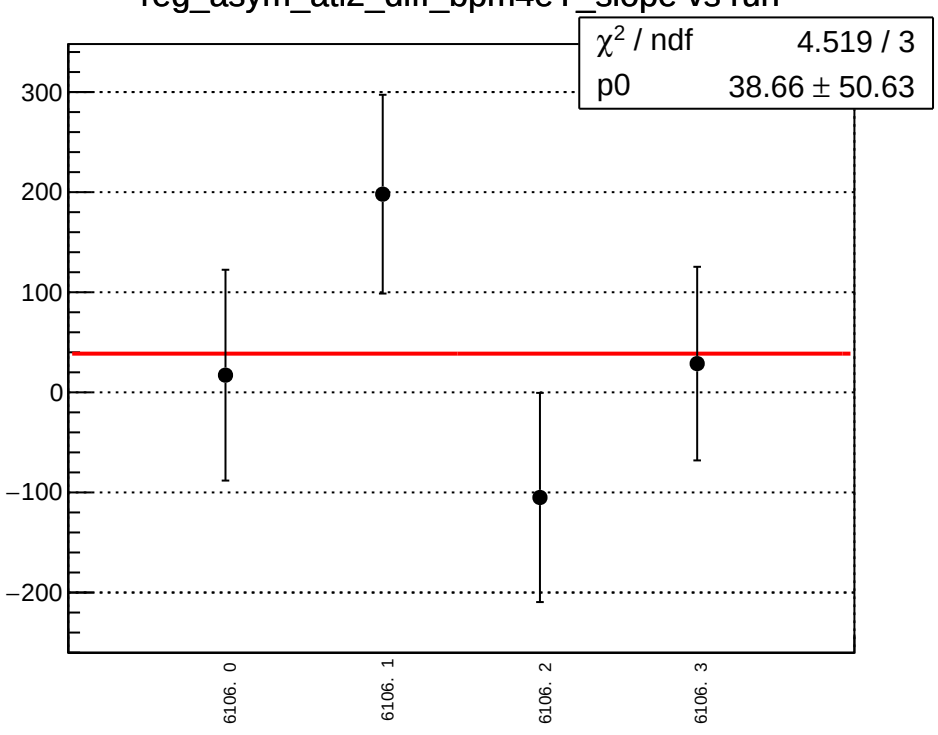

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 3.96 / 3
p0 −43.88 ± 47.82
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3

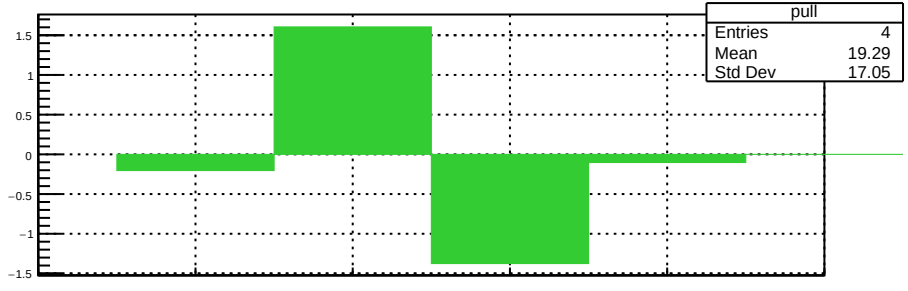

pull
Entries 4
Mean 10.69
Std Dev 8.508
1.5
1
0.5
0
−0.5
−1
−1.5

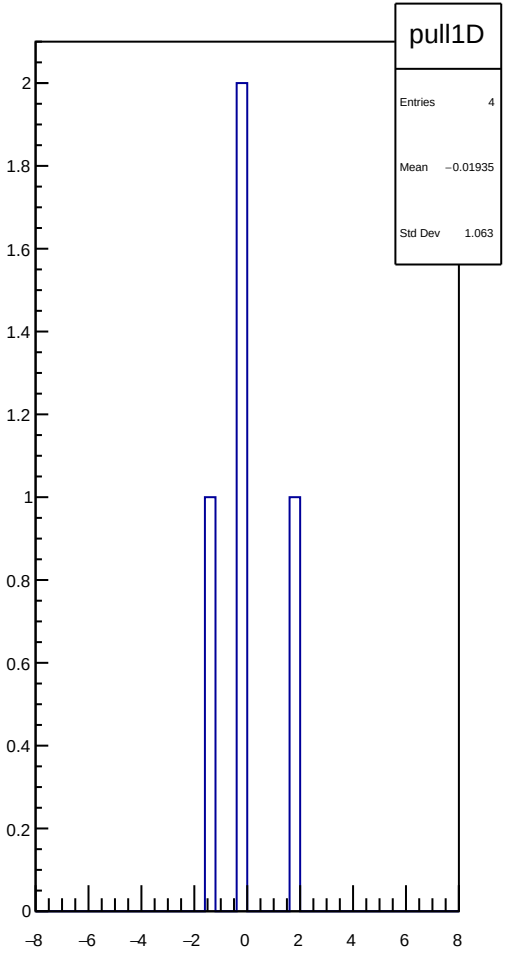

pull1D
Entries 4
Mean 0.03694
Std Dev 0.9944
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

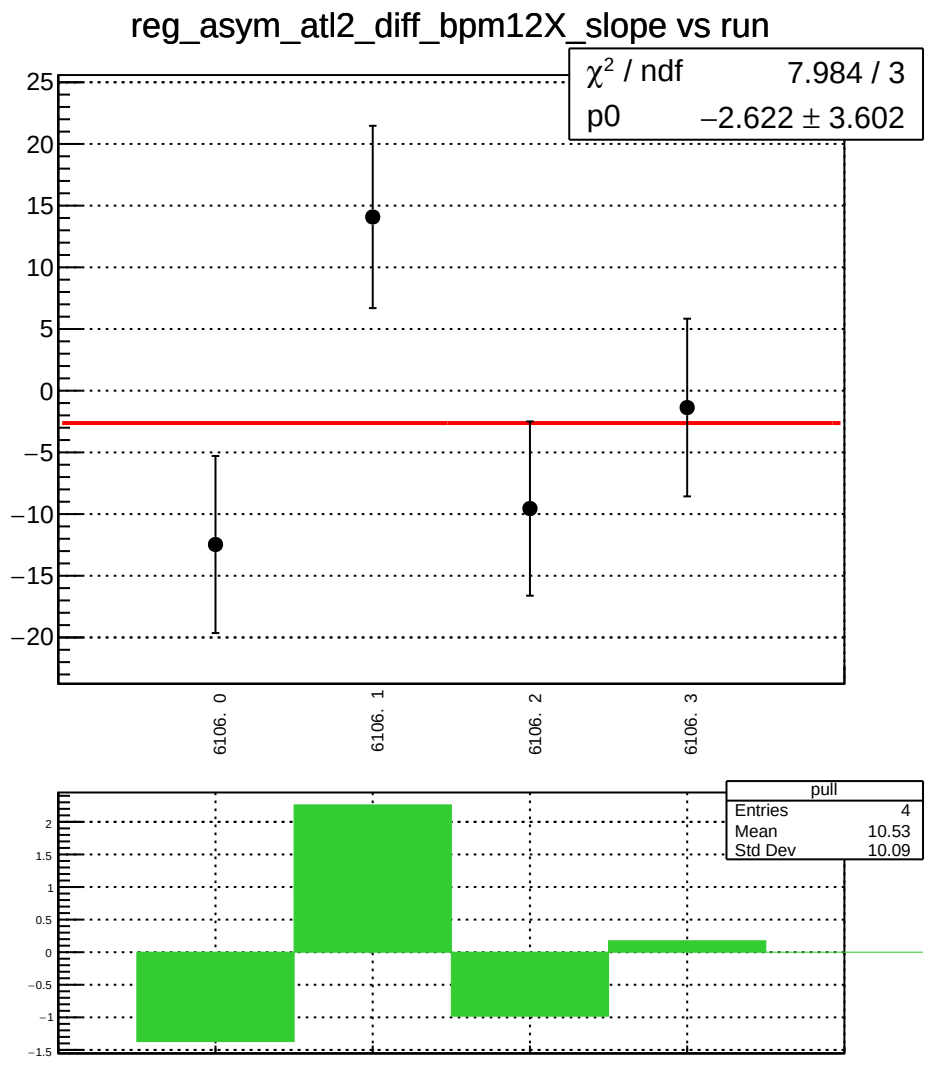

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.657 / 3
p0 −42.06 ± 86.5
400
300
200
100
0
−100
−200
−300
−400
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −154.2
Std Dev 156.1
1
0.5
0
−0.5
−1

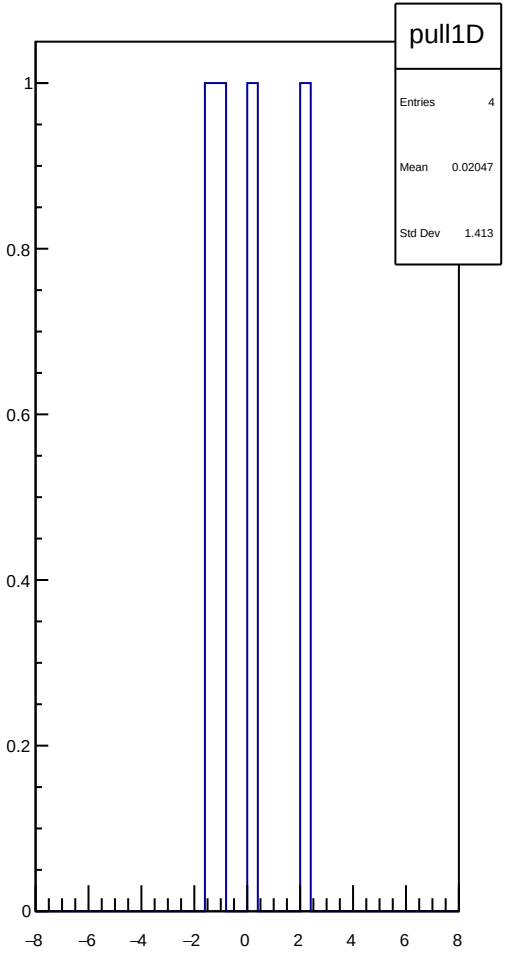

pull1D
Entries 4
Mean −0.006483
Std Dev 1.079
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

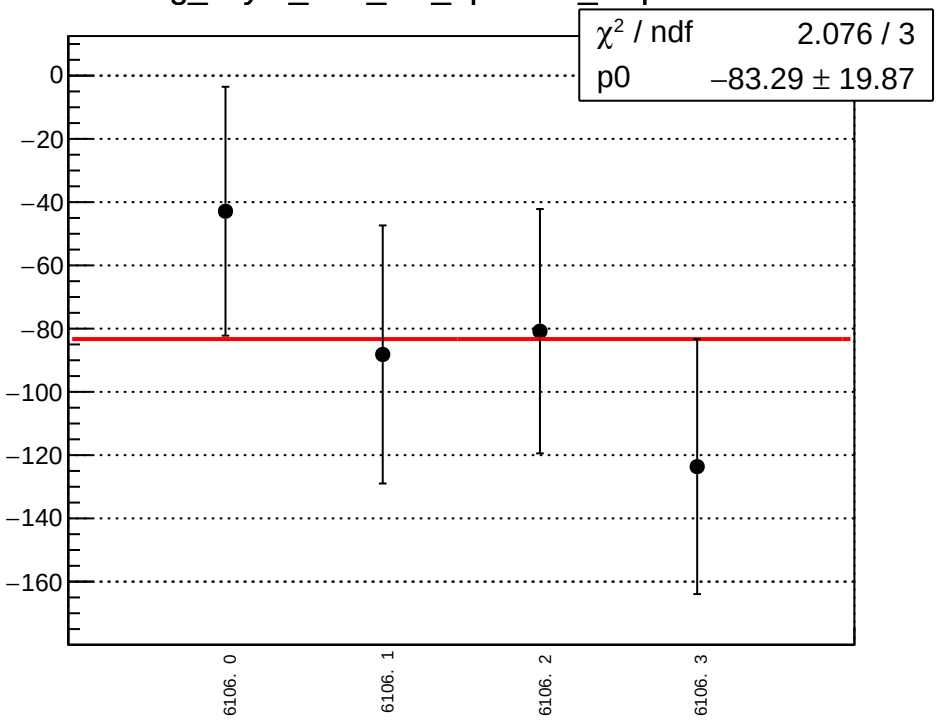

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.519 / 3
p0 38.66 ± 50.63
300
200
100
0
−100
−200
6106. 0
6106. 1
6106. 2
6106. 3

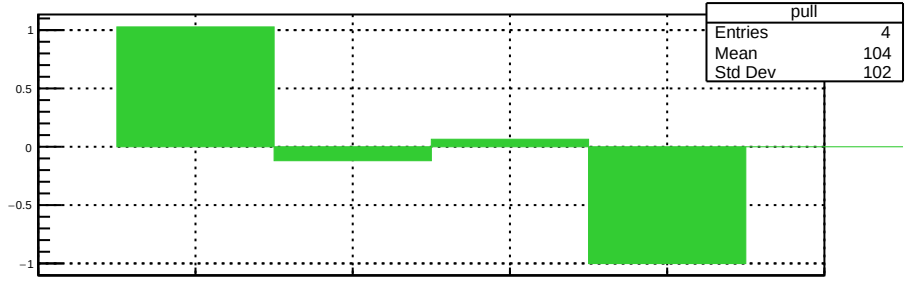

pull
Entries 4
Mean 19.29
Std Dev 17.05
1.5
1
0.5
0
−0.5
−1
−1.5

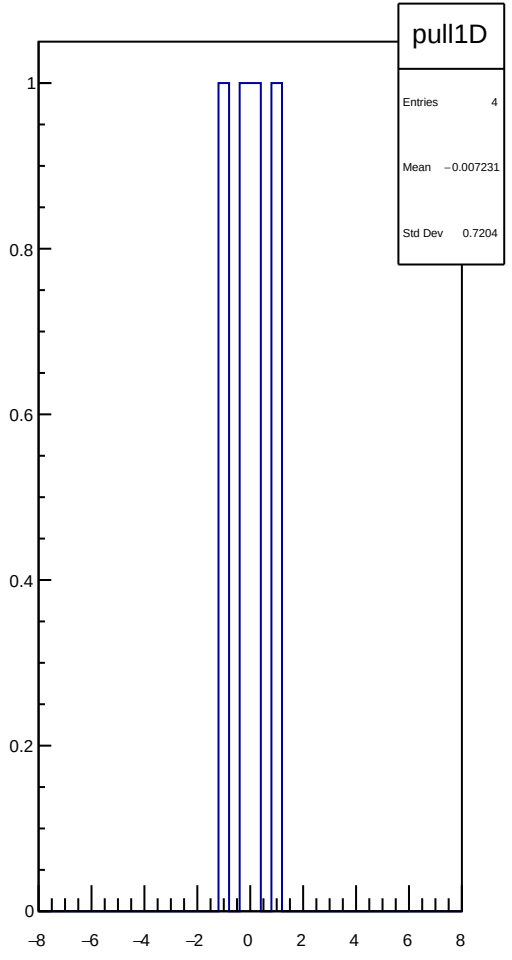

pull1D
Entries 4
Mean −0.01935
Std Dev 1.063
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

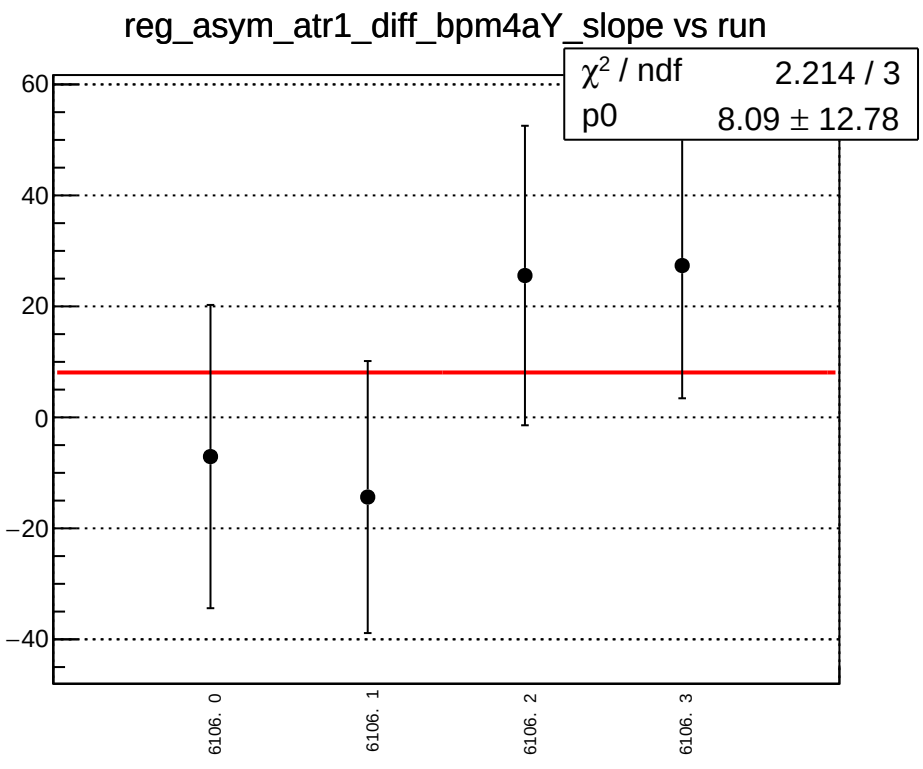

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 7.984 / 3
p0 −2.622 ± 3.602
25
20
15
10
5
0
−5
−10
−15
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 10.53
Std Dev 10.09
2
1.5
1
0.5
0
−0.5
−1
−1.5

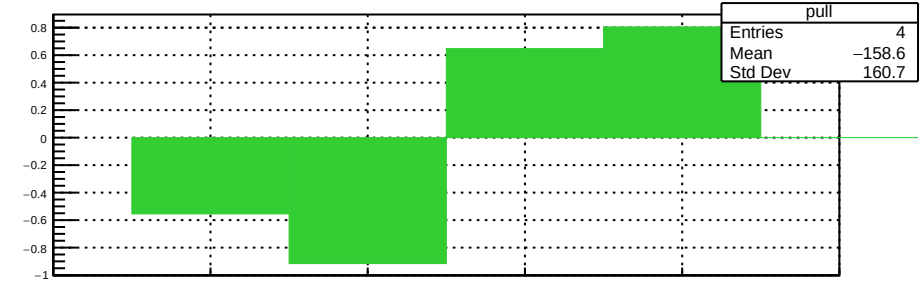

pull1D
Entries 4
Mean 0.02047
Std Dev 1.413
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

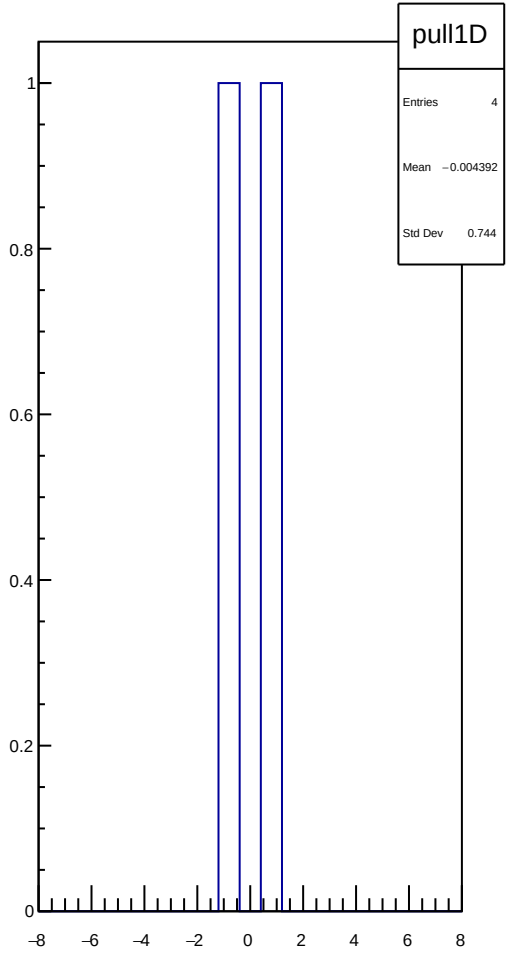

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 2.076 / 3
p0 −83.29 ± 19.87
0
−20
−40
−60
−80
−100
−120
−140
−160
6106. 0
6106. 1
6106. 2
6106. 3

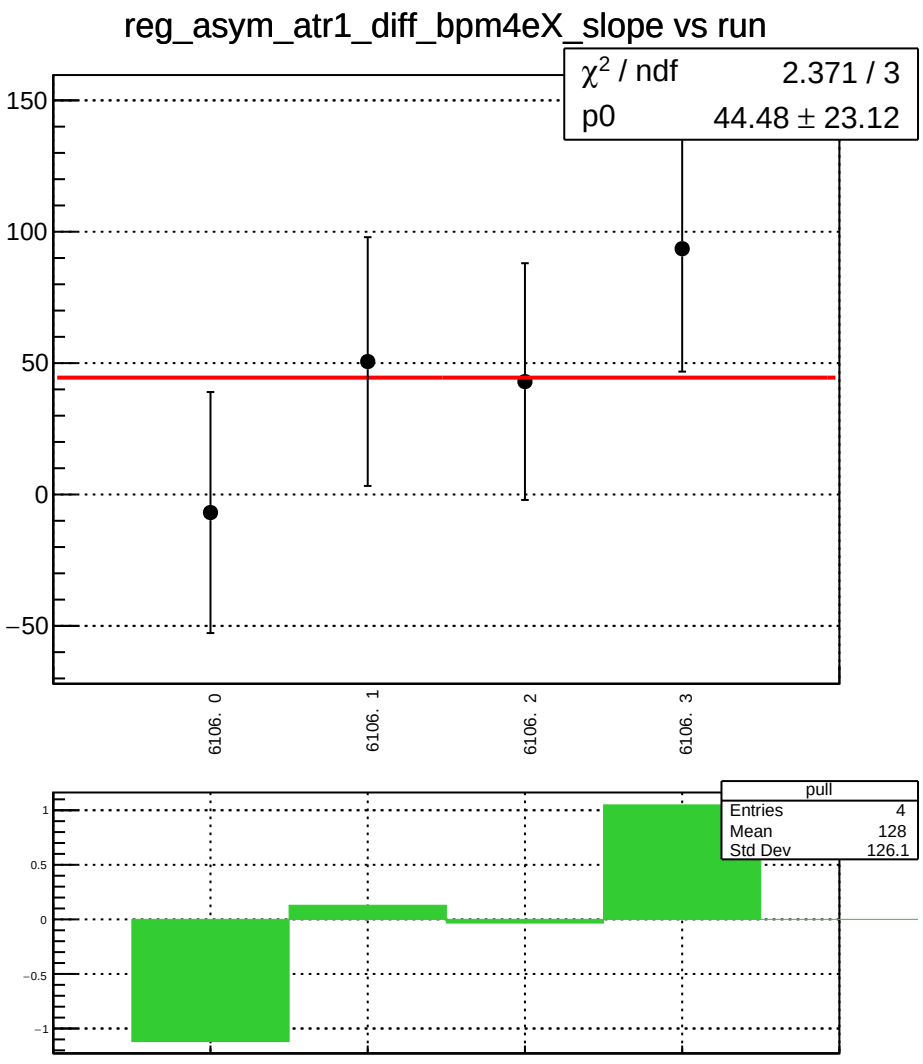

pull
Entries 4
Mean 104
Std Dev 102
1
0.5
0
−0.5
−1

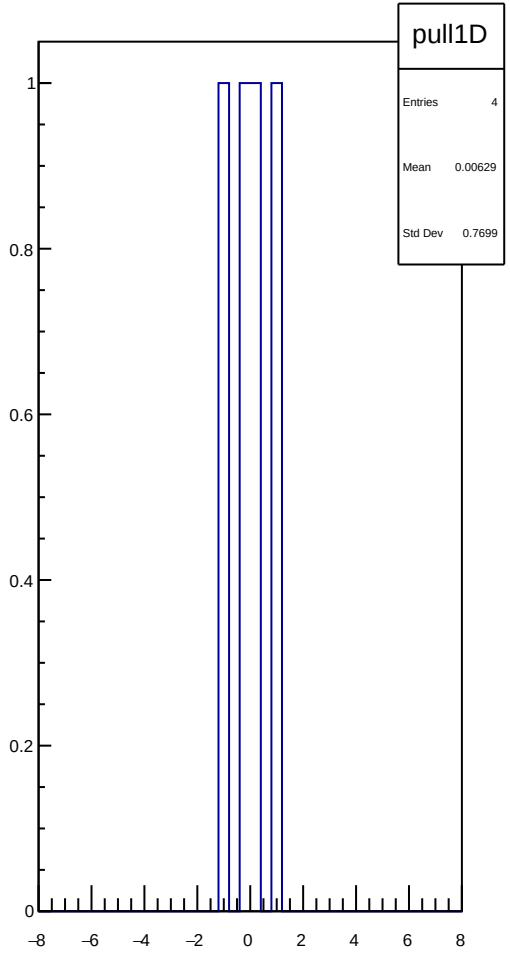

pull1D
Entries 4
Mean −0.007231
Std Dev 0.7204
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

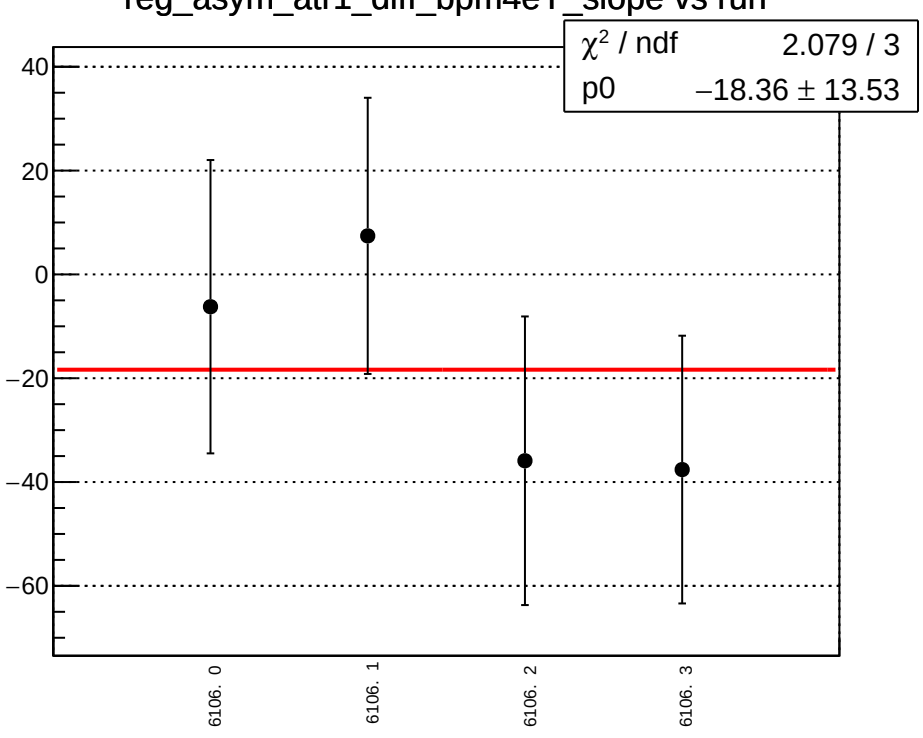

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 2.214 / 3
p0 8.09 ± 12.78
60
40
20
0
−20
−40
6106. 0
6106. 1
6106. 2
6106. 3

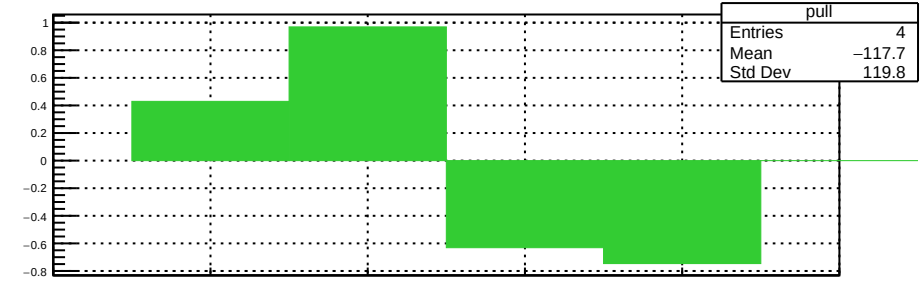

pull
Entries 4
Mean −158.6
Std Dev 160.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

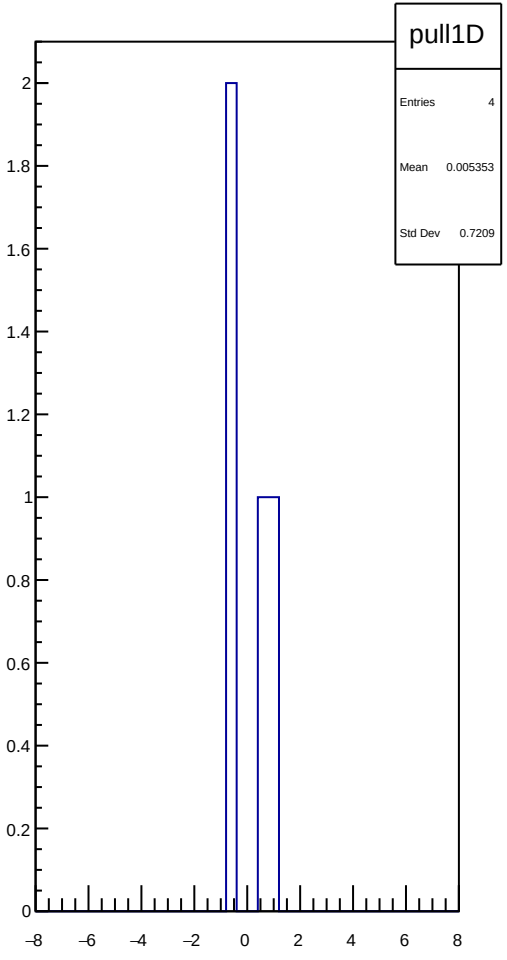

pull1D
Entries 4
Mean −0.004392
Std Dev 0.744
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

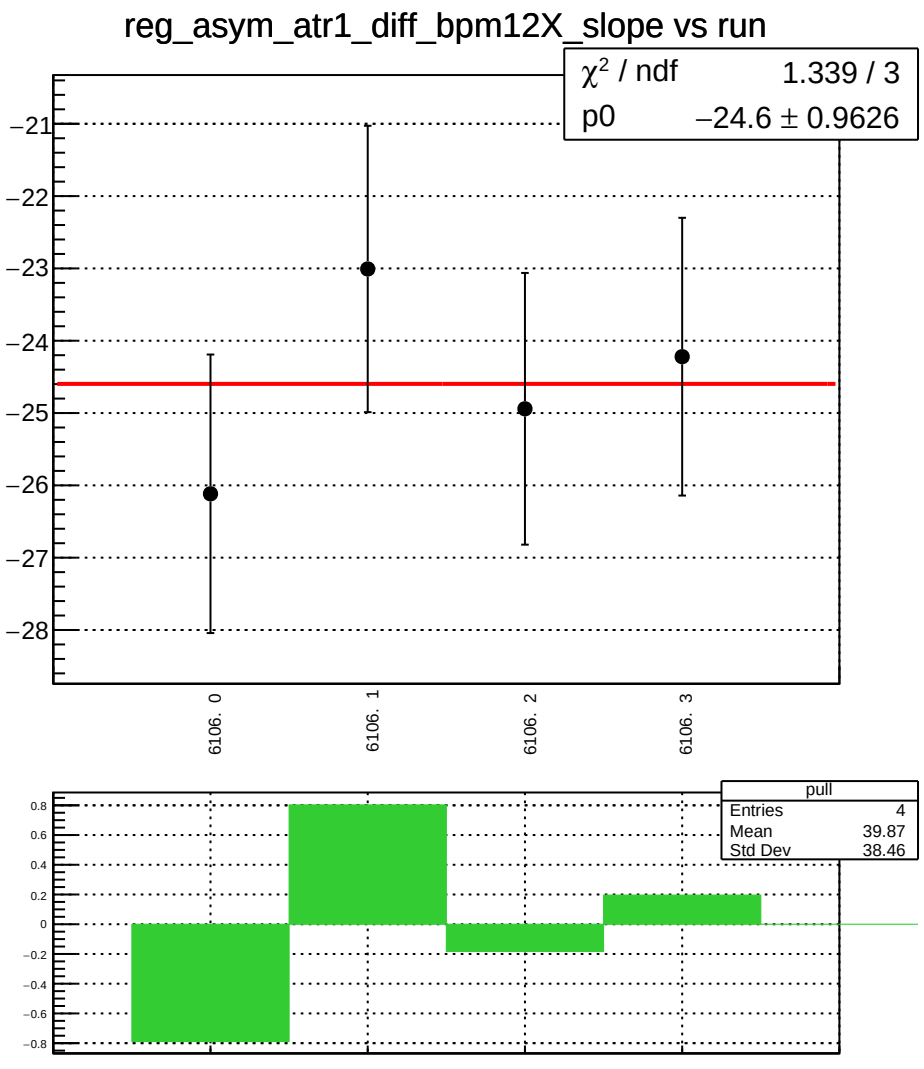

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 2.371 / 3
p0 44.48 ± 23.12
150
100
50
0
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 128
Std Dev 126.1
1
0.5
0
−0.5
−1

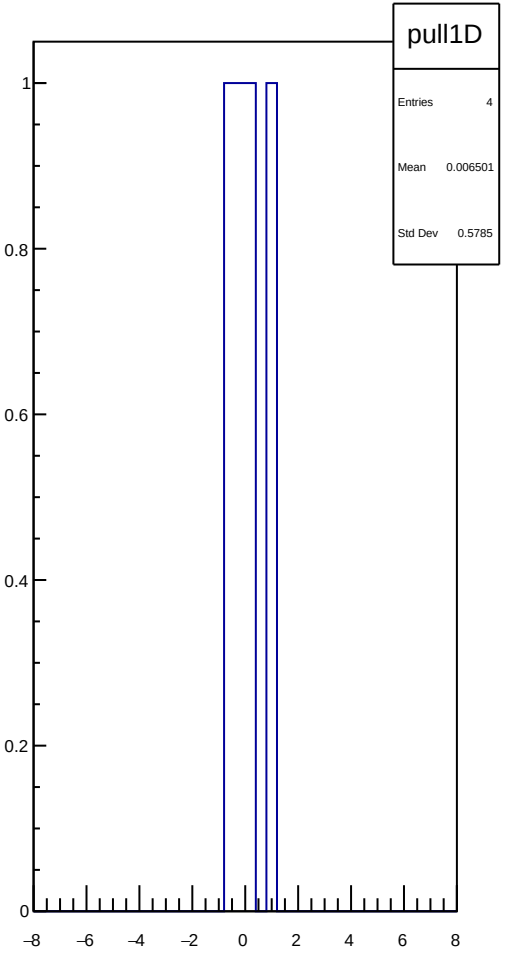

pull1D
Entries 4
Mean 0.00629
Std Dev 0.7699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

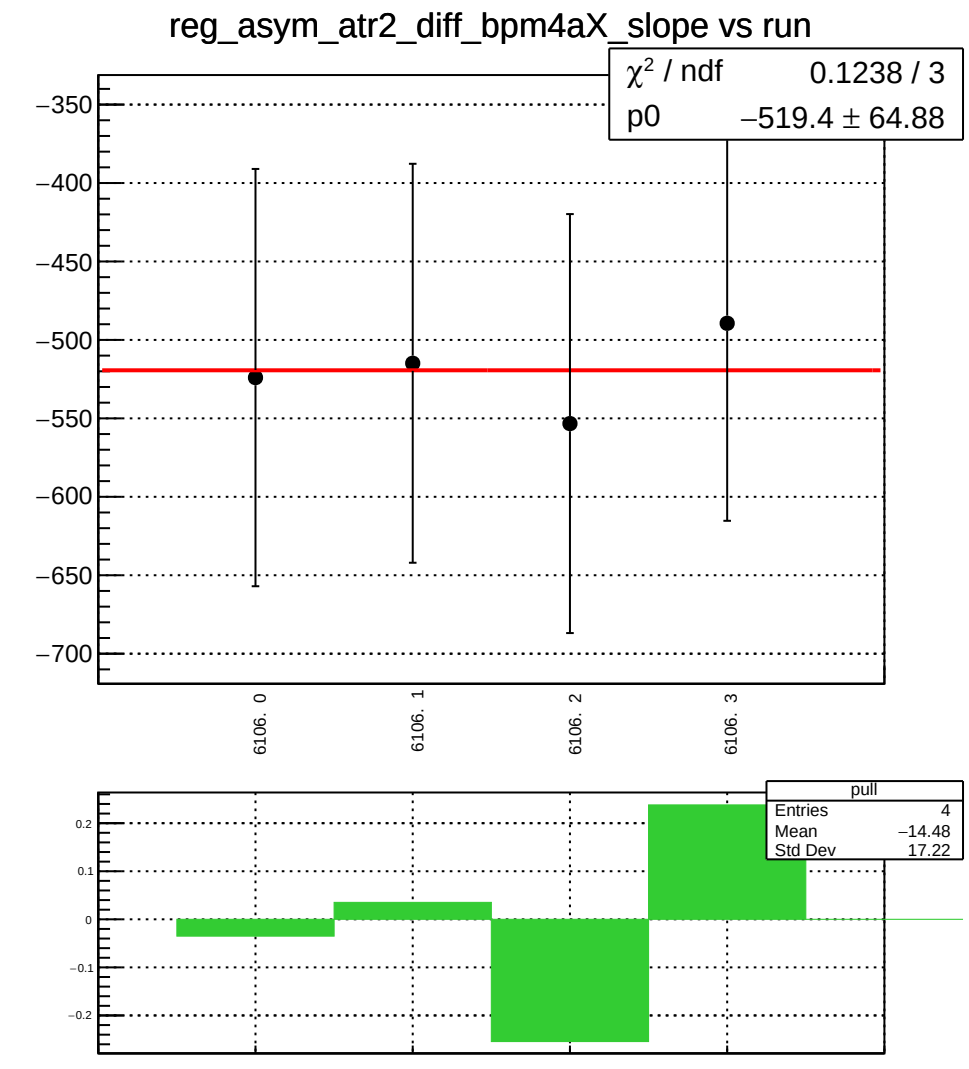

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 2.079 / 3
p0 −18.36 ± 13.53
40
20
0
−20
−40
−60
6106. 0
6106. 1
6106. 2
6106. 3

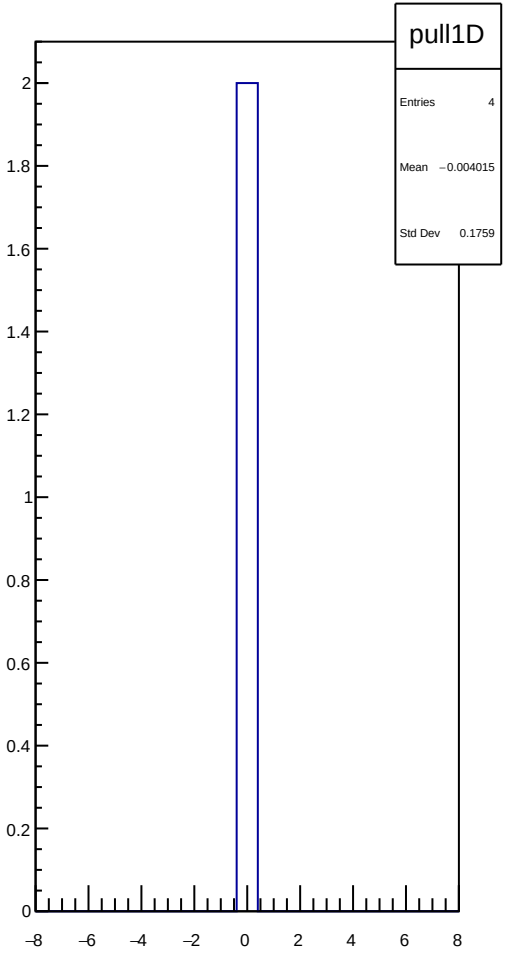

pull
Entries 4
Mean −117.7
Std Dev 119.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

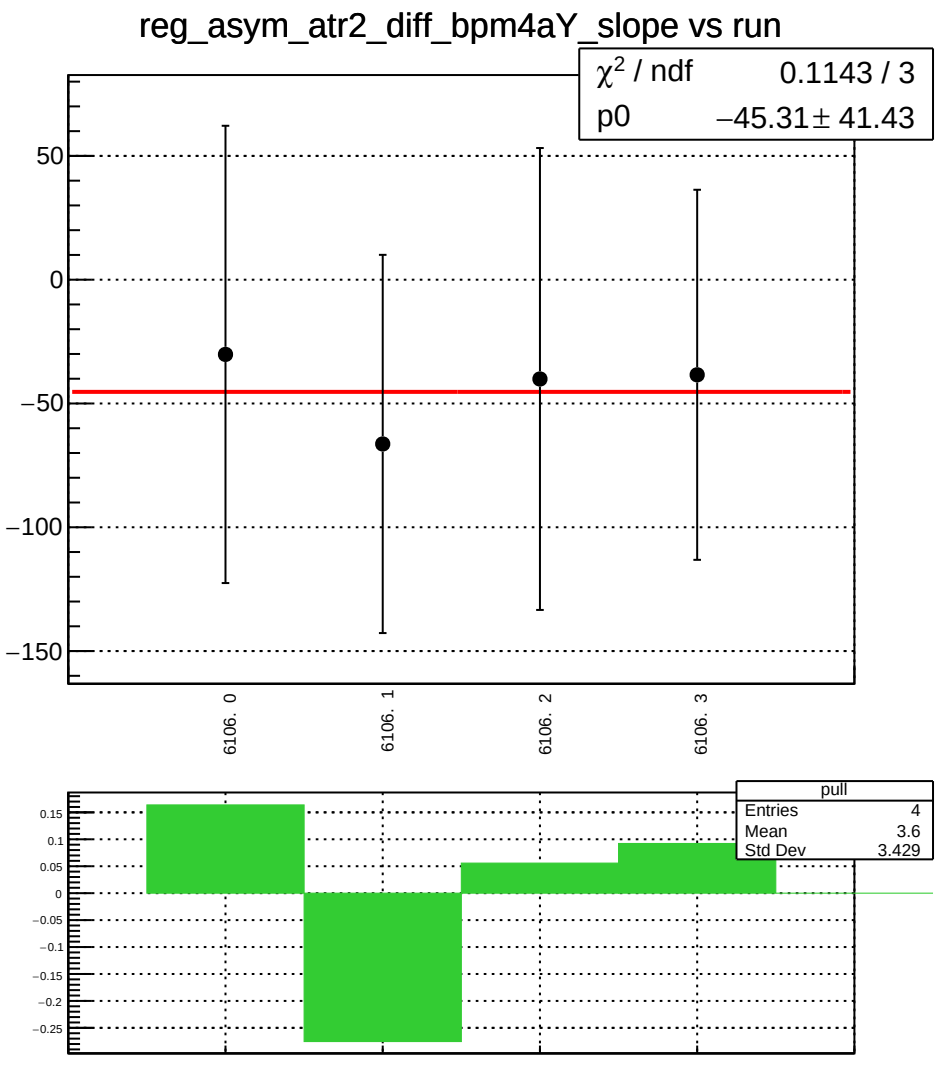

pull1D
Entries 4
Mean 0.005353
Std Dev 0.7209
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

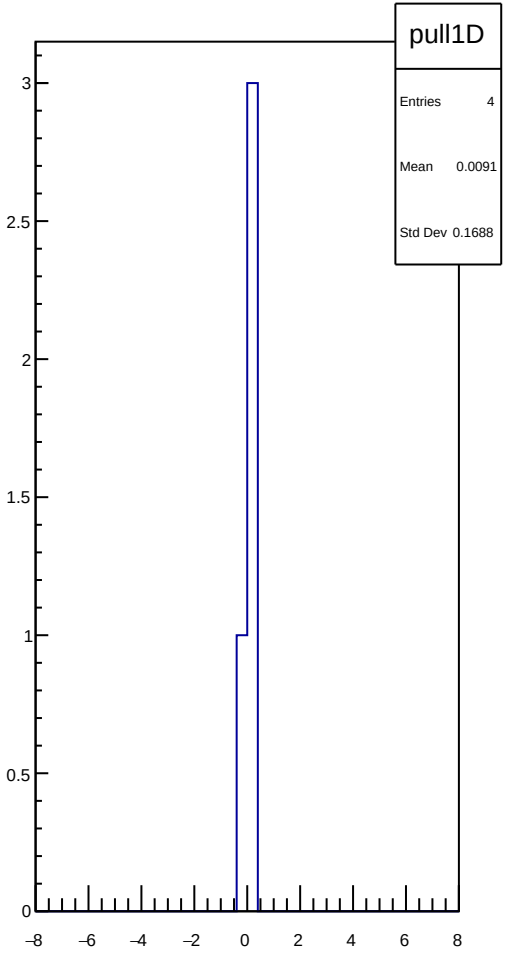

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1.339 / 3
p0 −24.6 ± 0.9626
−21
−22
−23
−24
−25
−26
−27
−28
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 39.87
Std Dev 38.46
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

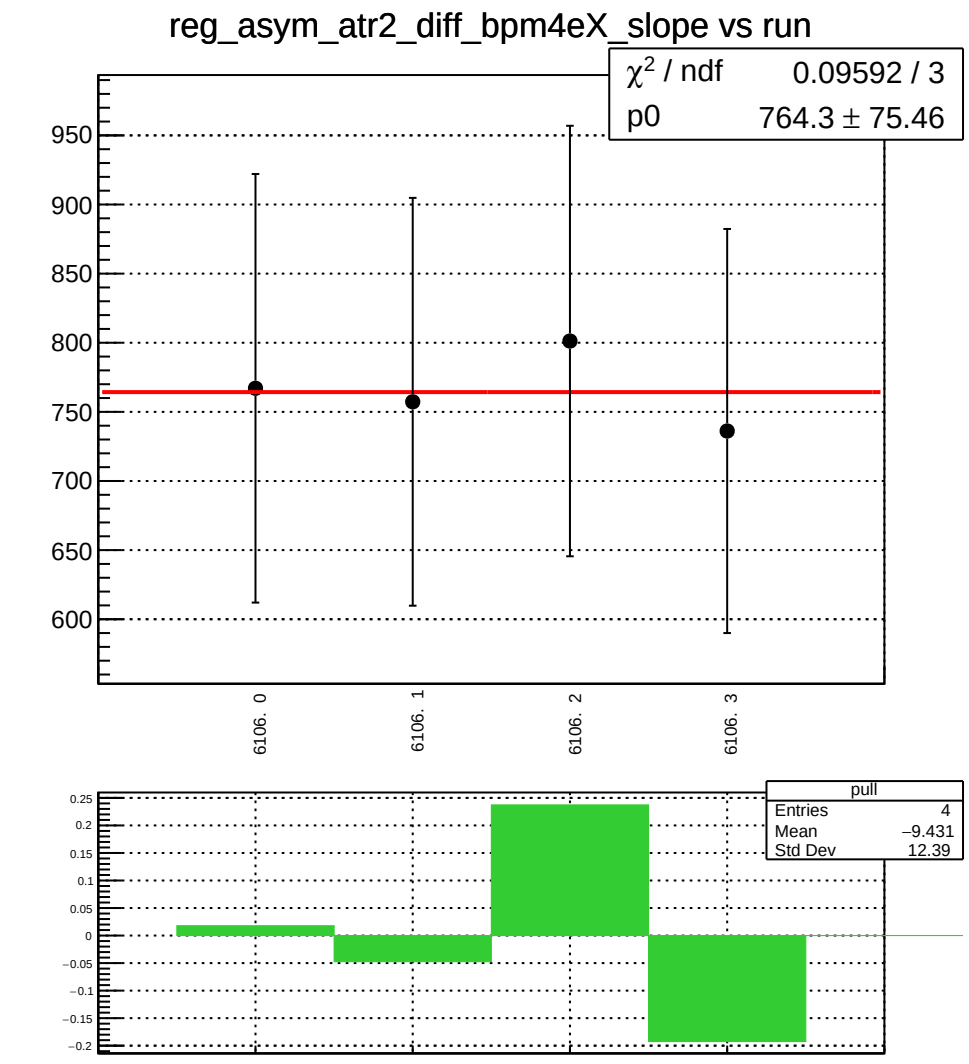

pull1D
Entries 4
Mean 0.006501
Std Dev 0.5785
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

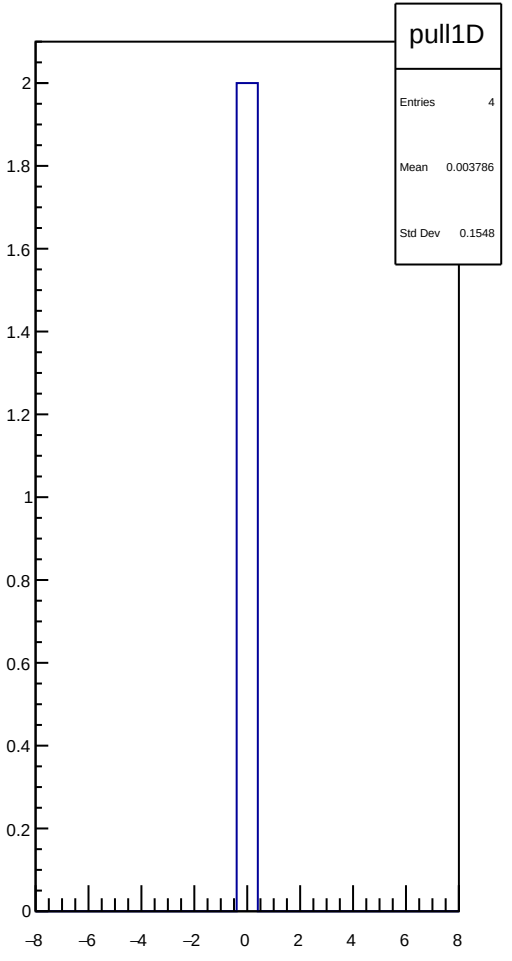

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 0.1238 / 3
p0 −519.4 ± 64.88
−350
−400
−450
−500
−550
−600
−650
−700
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −14.48
Std Dev 17.22
0.2
0.1
0
−0.1
−0.2

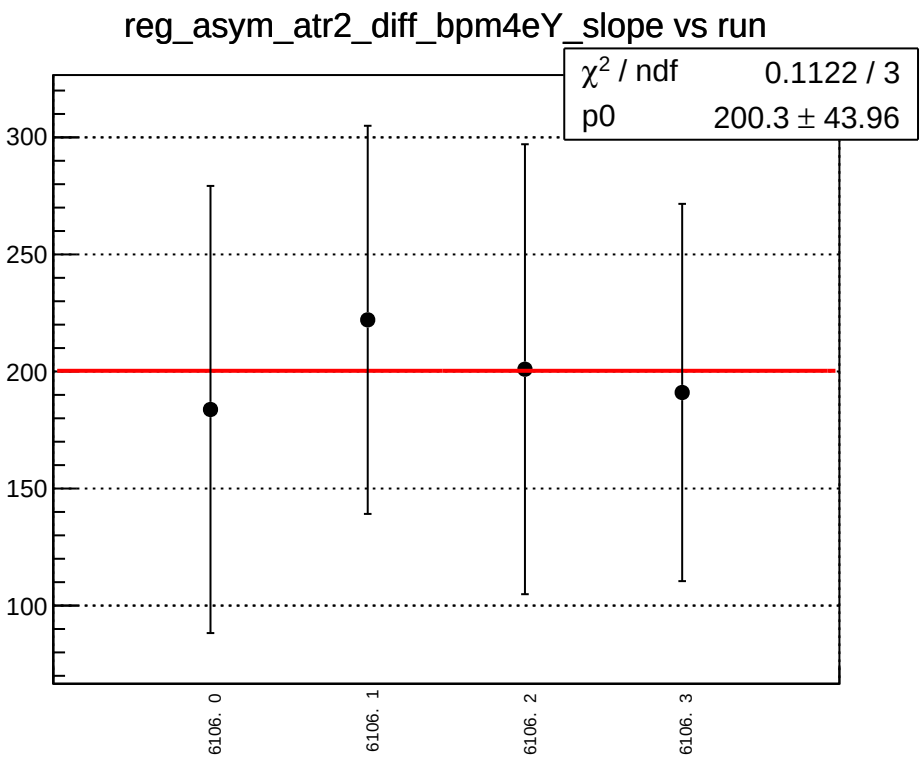

pull1D
Entries 4
Mean −0.004015
Std Dev 0.1759
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

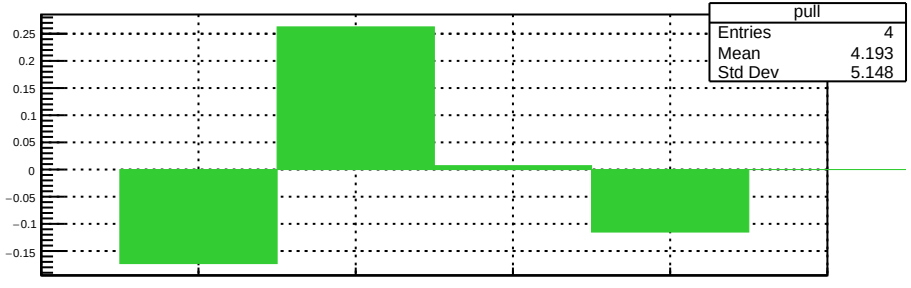

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 0.1143 / 3
p0 −45.31 ± 41.43
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 3.6
Std Dev 3.429
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

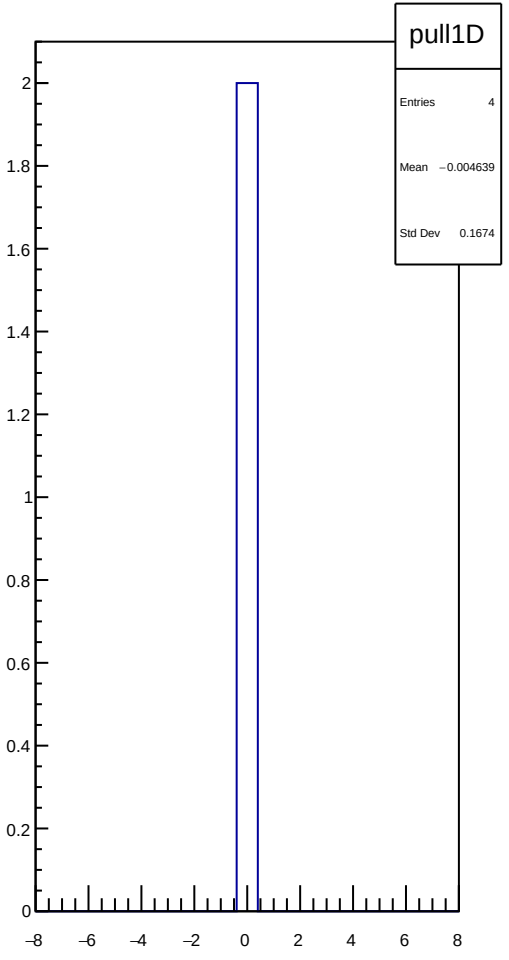

pull1D
Entries 4
Mean 0.0091
Std Dev 0.1688
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

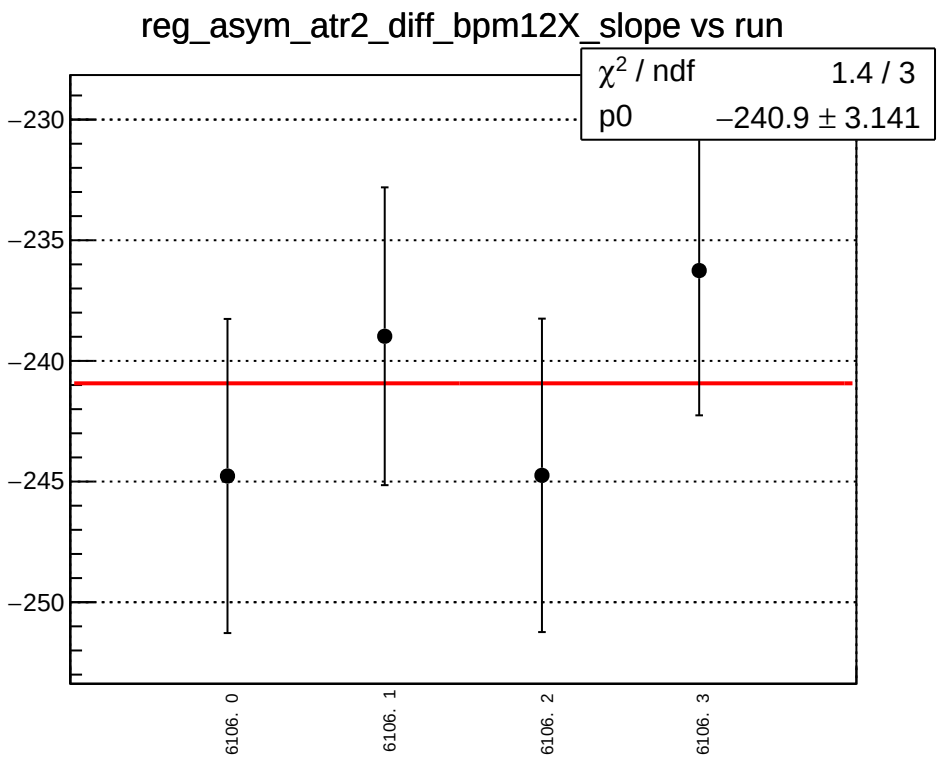

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 0.09592 / 3
p0 764.3 ± 75.46
950
900
850
800
750
700
650
600
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −9.431
Std Dev 12.39
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

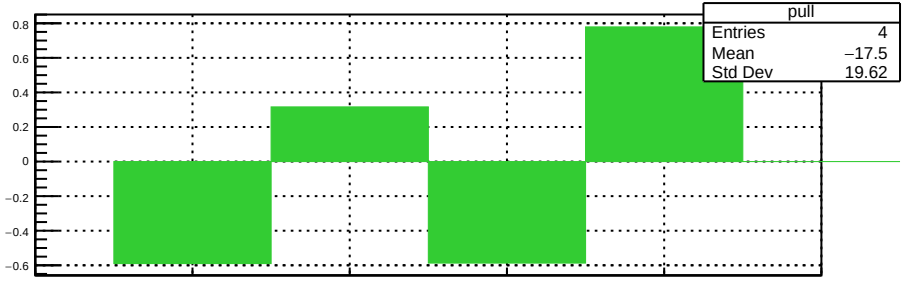

pull1D
Entries 4
Mean 0.003786
Std Dev 0.1548
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

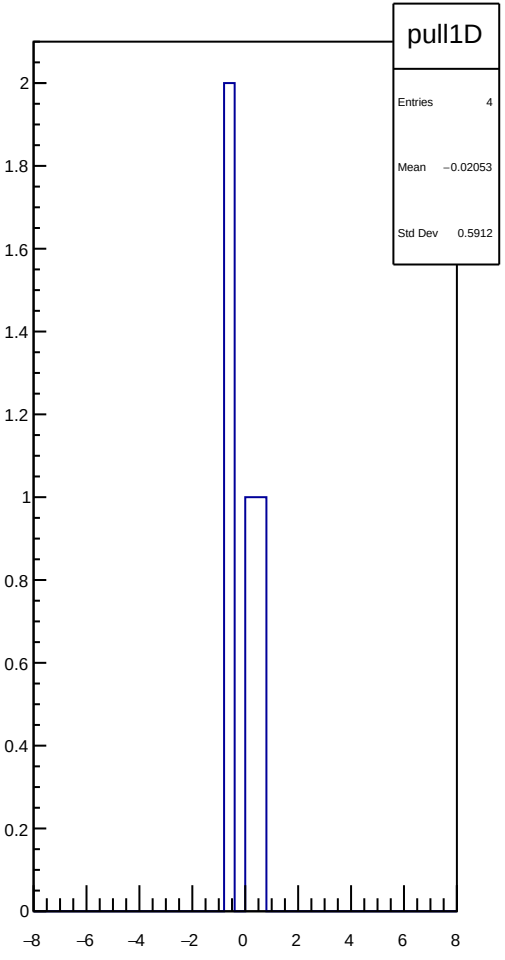

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 0.1122 / 3
p0 200.3 ± 43.96
300
250
200
150
100
6106. 0
6106. 1
6106. 2
6106. 3

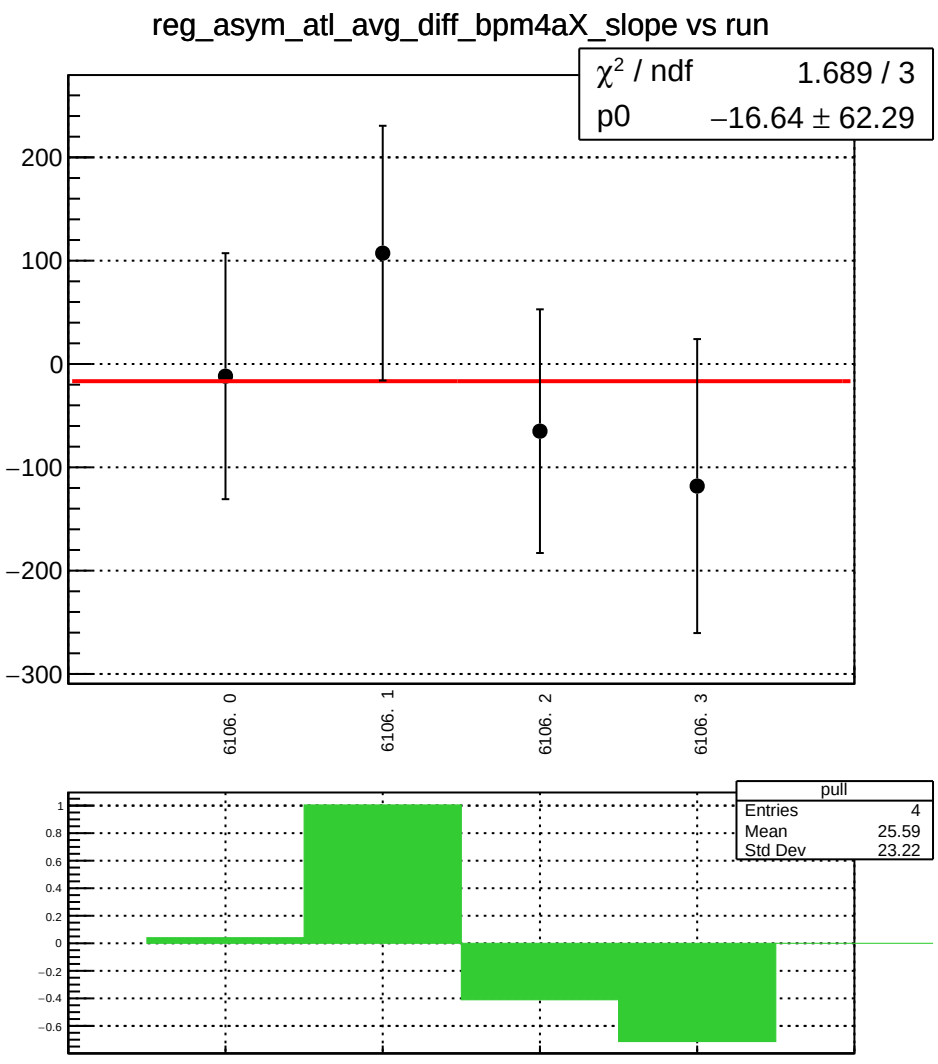

pull
Entries 4
Mean 4.193
Std Dev 5.148
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

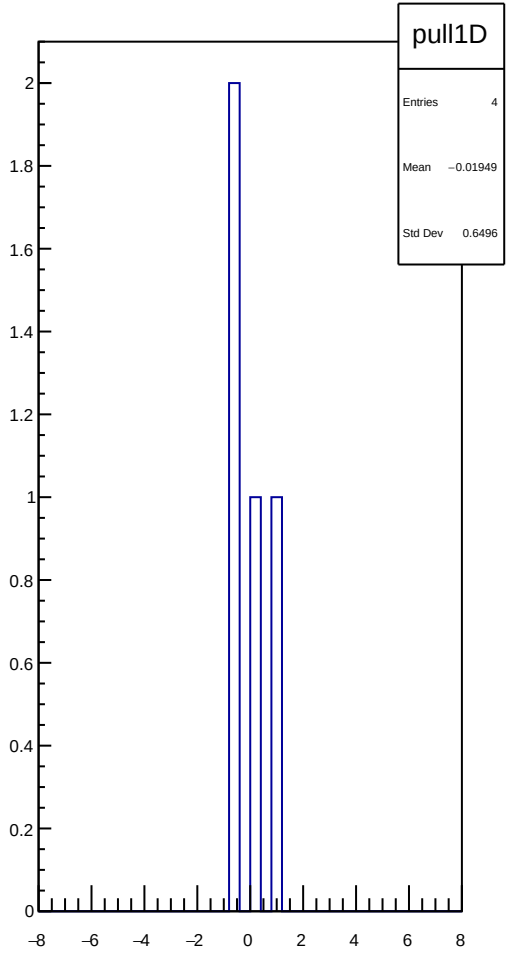

pull1D
Entries 4
Mean −0.004639
Std Dev 0.1674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

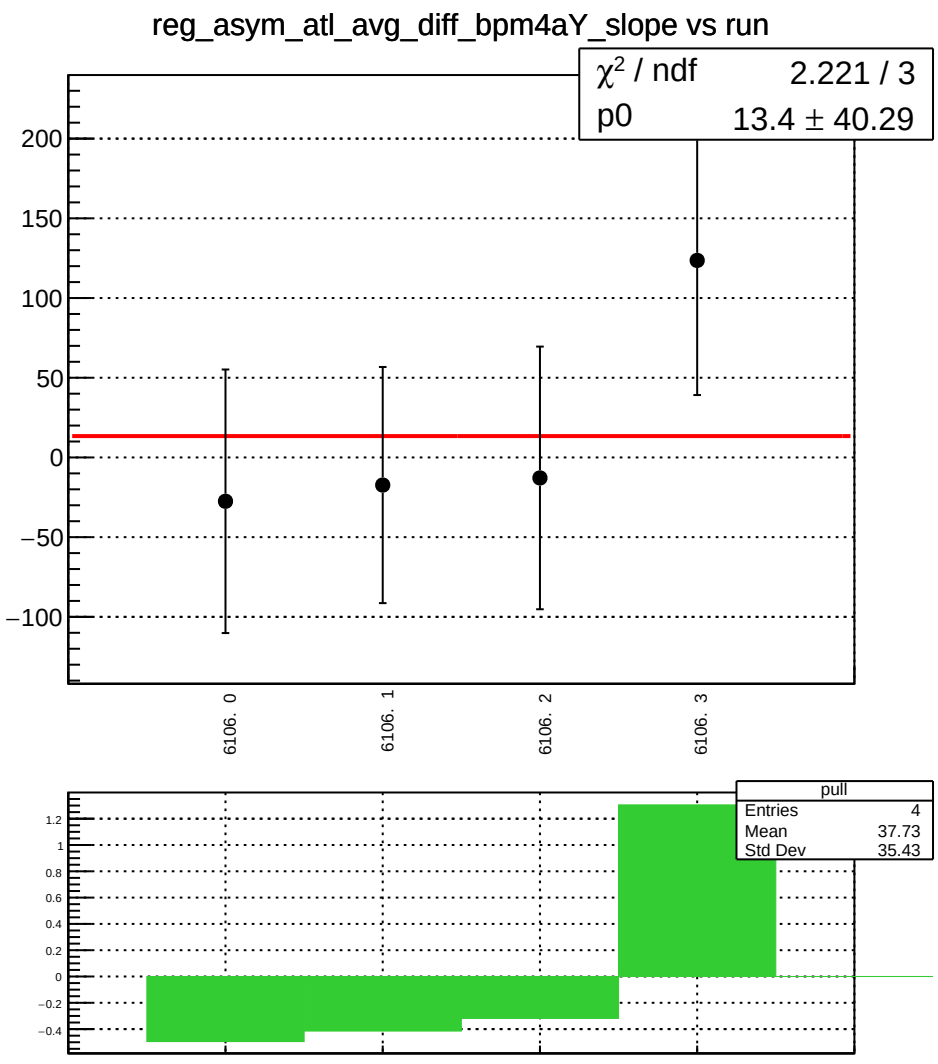

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 1.4 / 3
p0 −240.9 ± 3.141
−230
−235
−240
−245
−250
6106. 0
6106. 1
6106. 2
6106. 3

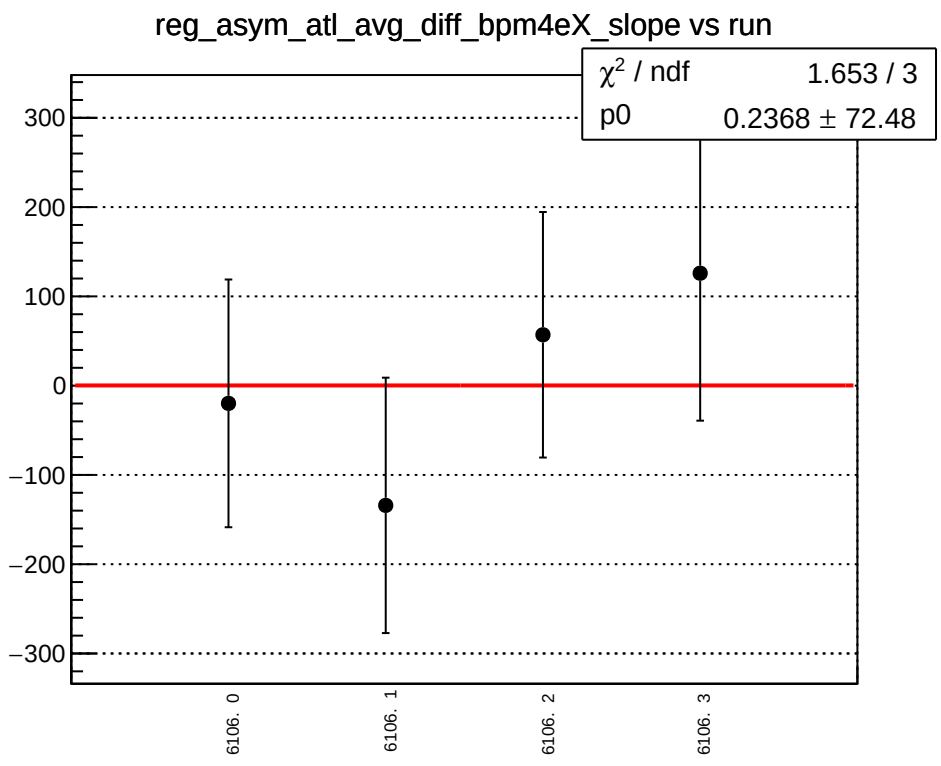

pull
Entries 4
Mean −17.5
Std Dev 19.62
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

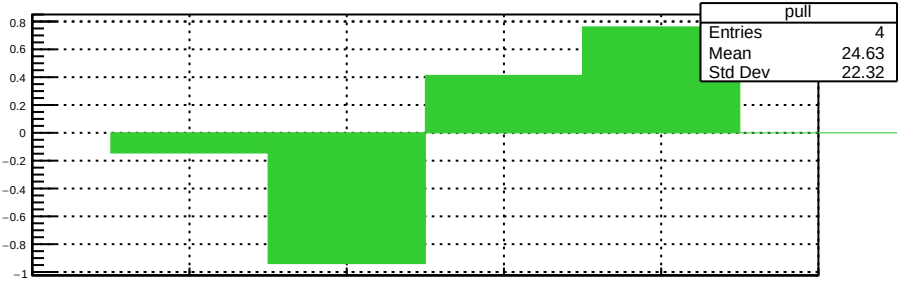

pull1D
Entries 4
Mean −0.02053
Std Dev 0.5912
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

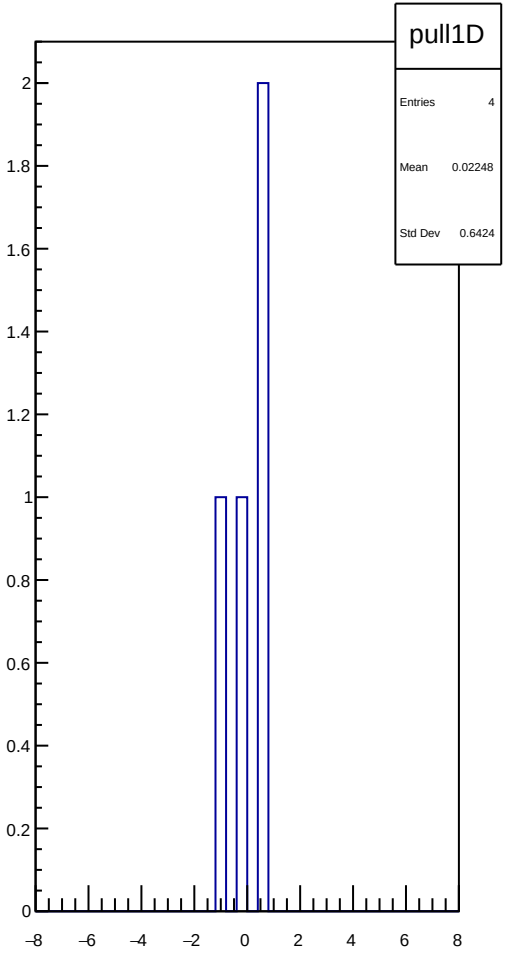

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.689 / 3
p0 −16.64 ± 62.29
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 25.59
Std Dev 23.22
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

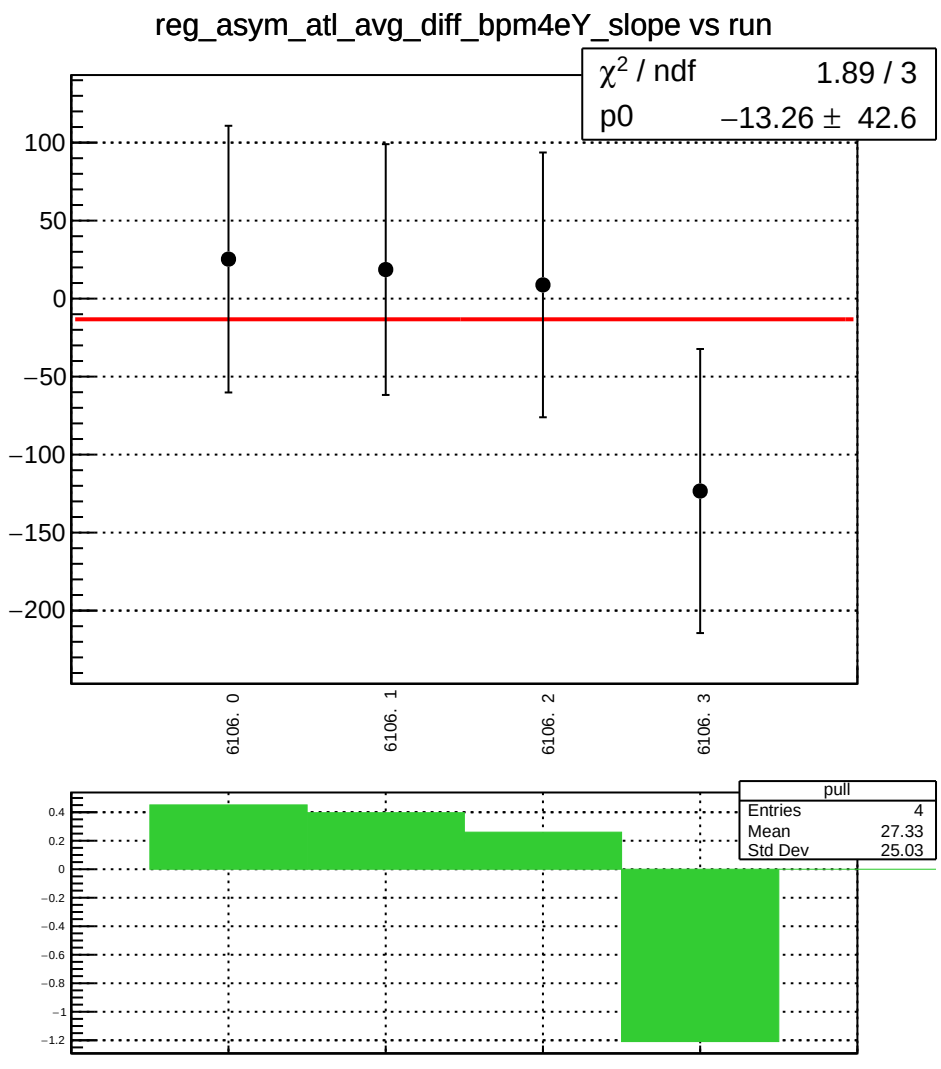

pull1D
Entries 4
Mean −0.01949
Std Dev 0.6496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

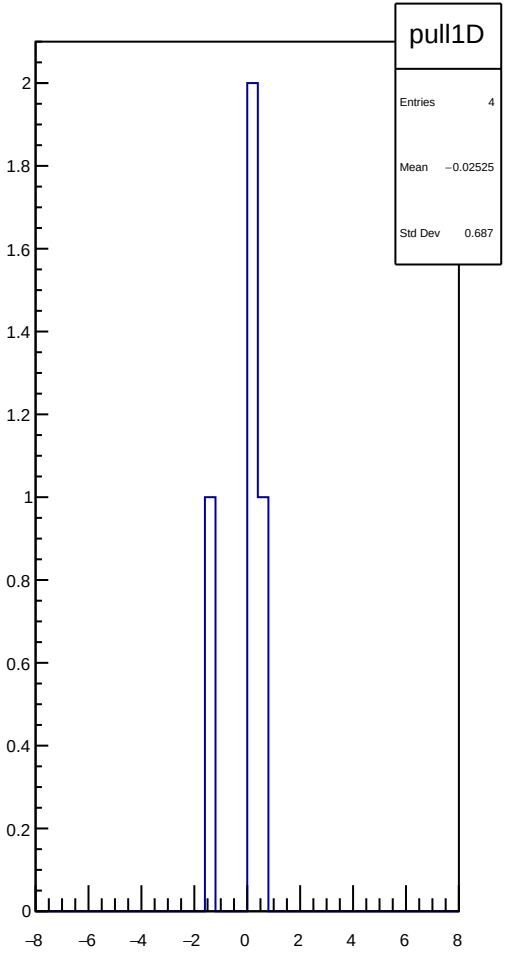

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.221 / 3
p0 13.4 ± 40.29
200
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 37.73
Std Dev 35.43
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.01922
Std Dev 0.7449
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

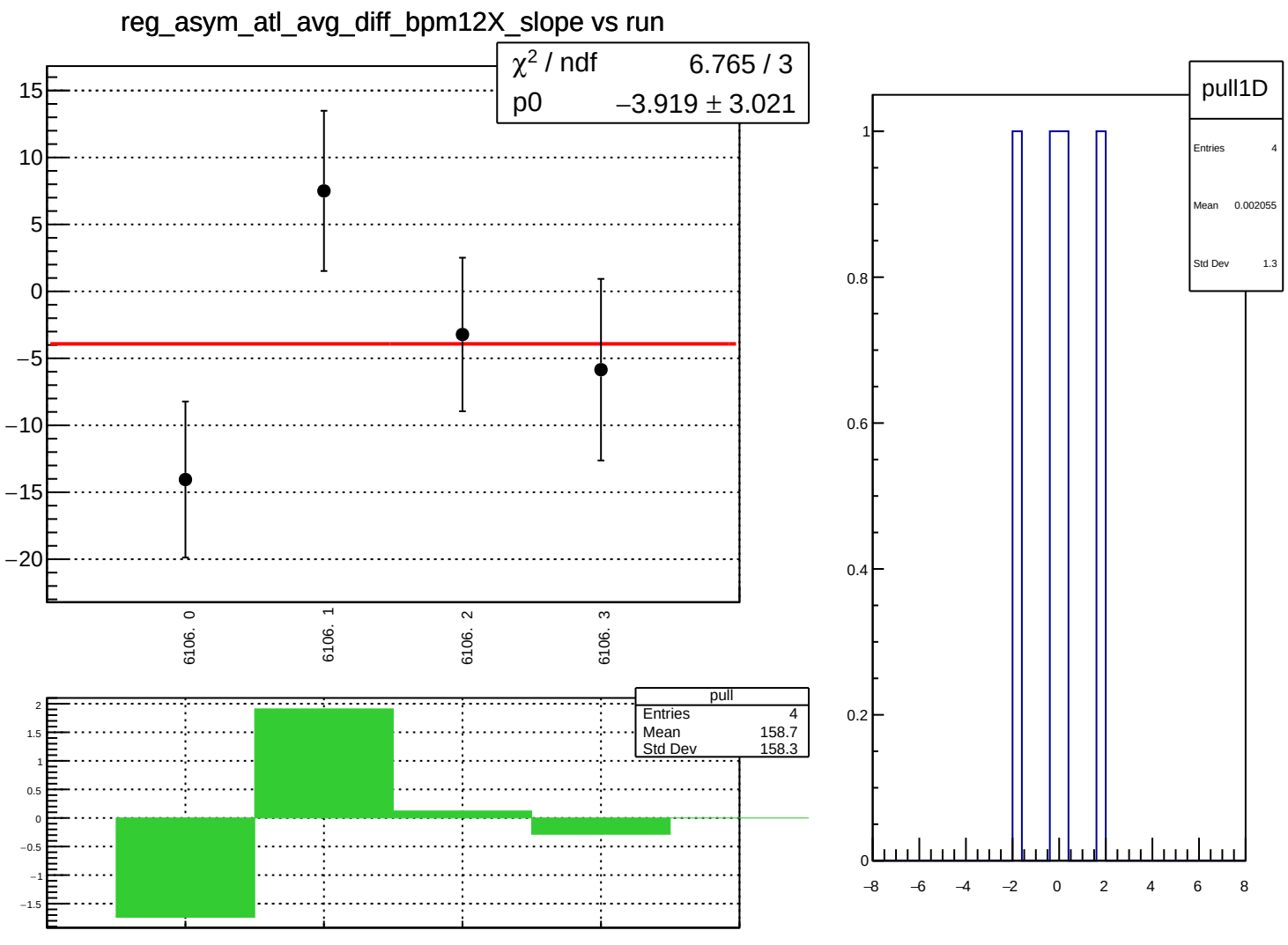

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.653 / 3
p0 0.2368 ± 72.48
300
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3

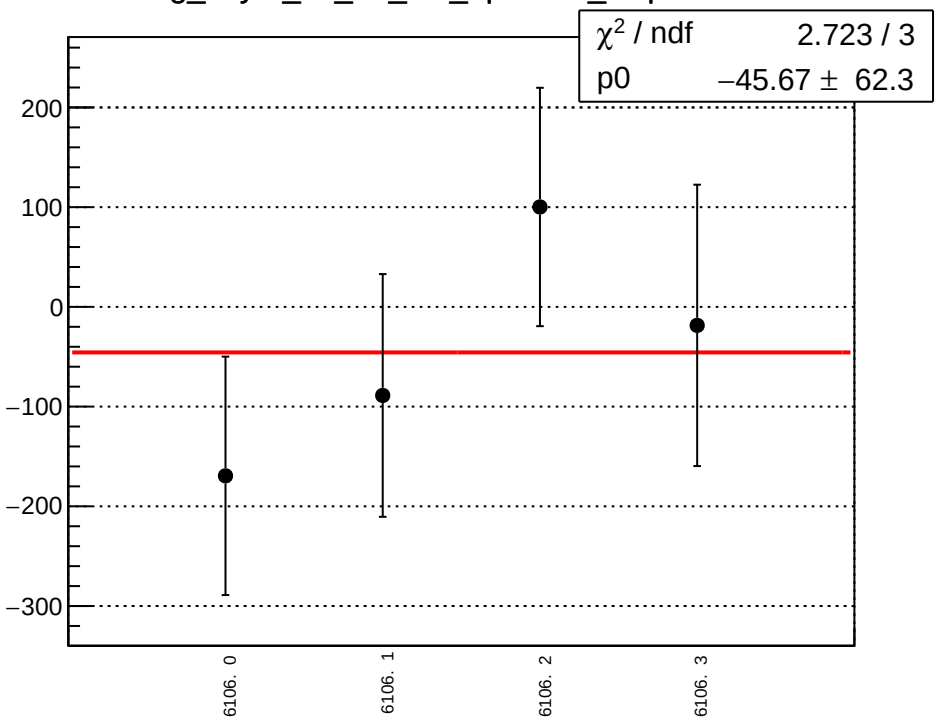

pull
Entries 4
Mean 24.63
Std Dev 22.32
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

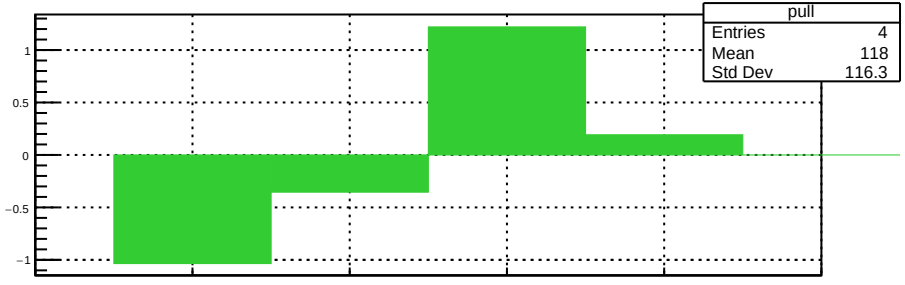

pull1D
Entries 4
Mean 0.02248
Std Dev 0.6424
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

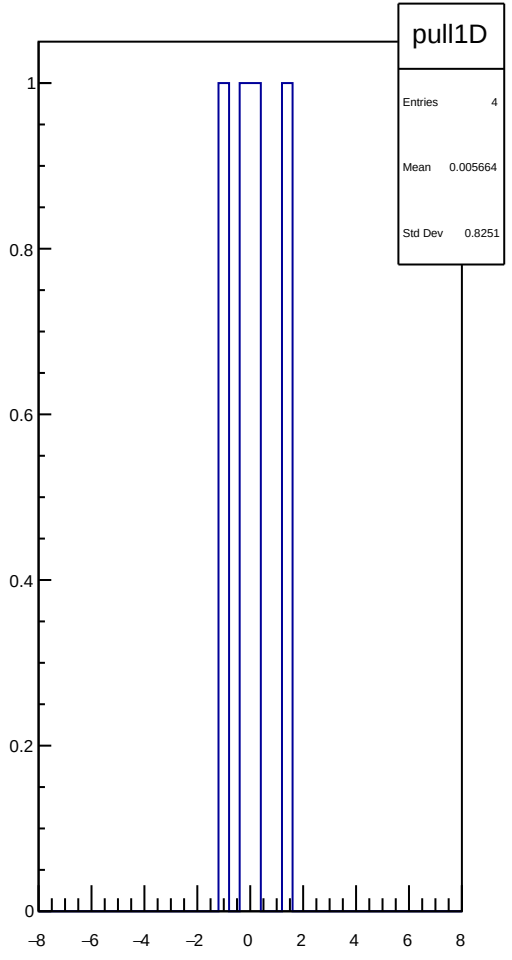

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.89 / 3
p0 −13.26 ± 42.6
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 27.33
Std Dev 25.03
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

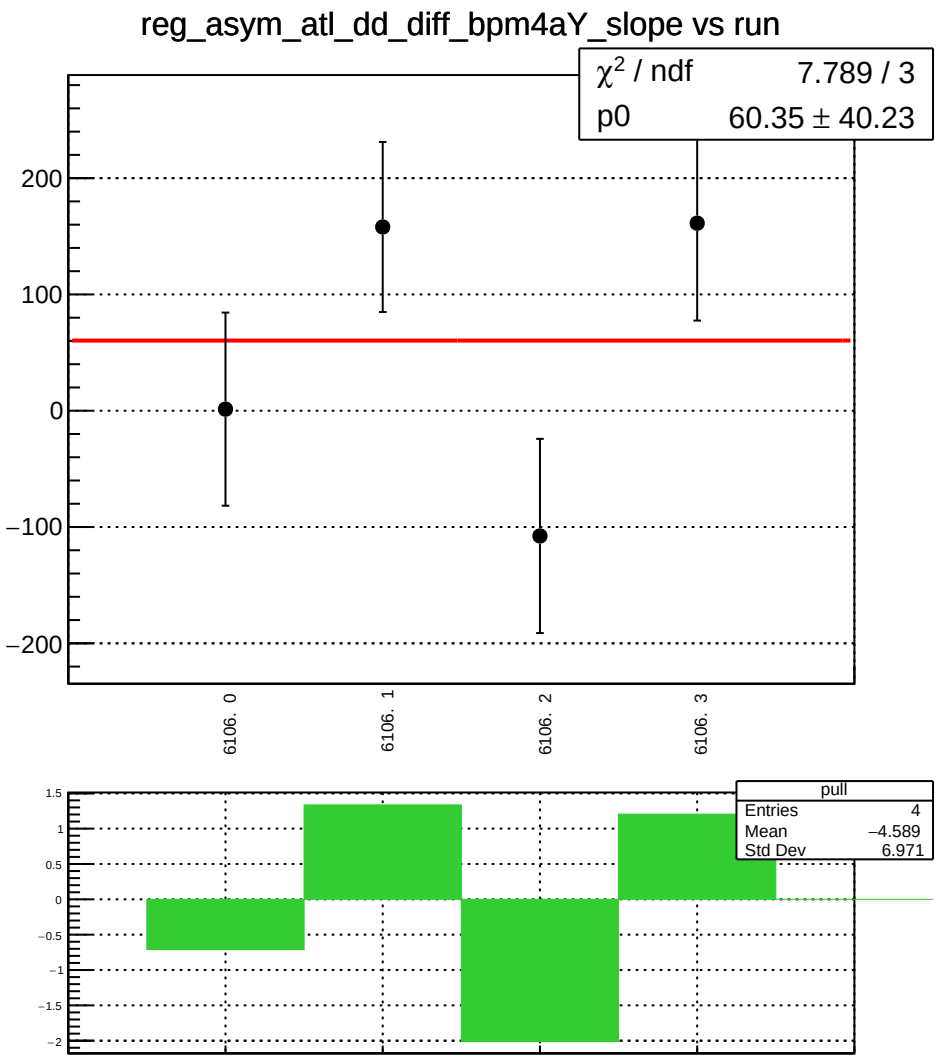

pull1D
Entries 4
Mean −0.02525
Std Dev 0.687
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

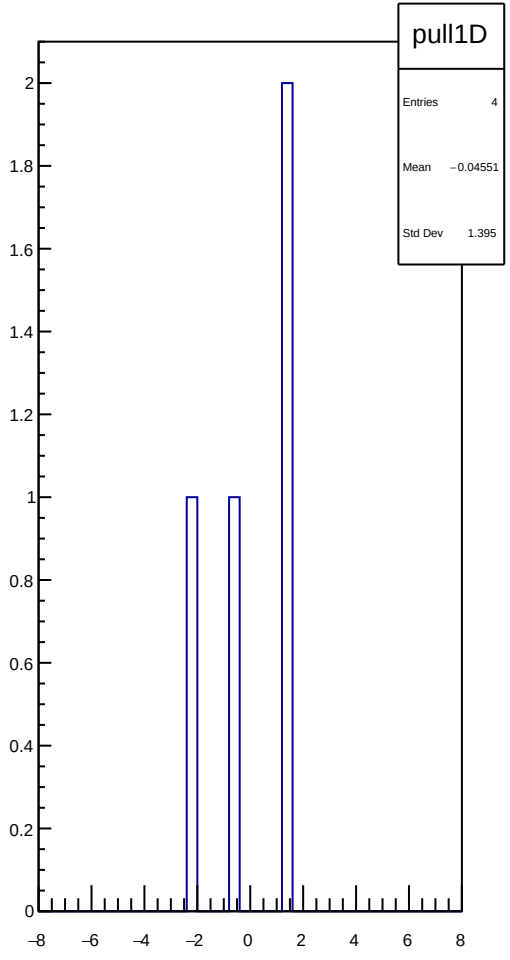

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 6.765 / 3
p0 −3.919 ± 3.021
15
10
5
0
−5
−10
−15
−20
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 158.7
Std Dev 158.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean 0.002055
Std Dev 1.3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

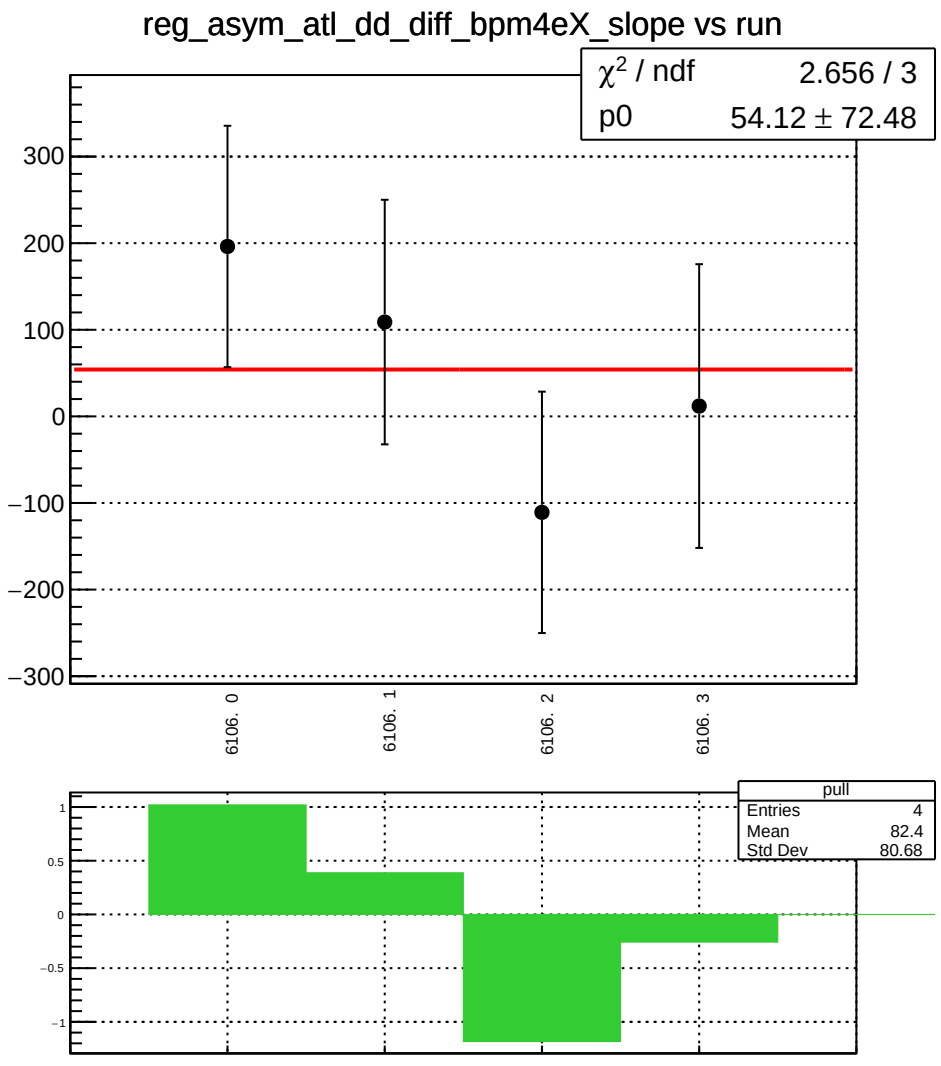

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.723 / 3
p0 −45.67 ± 62.3
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3

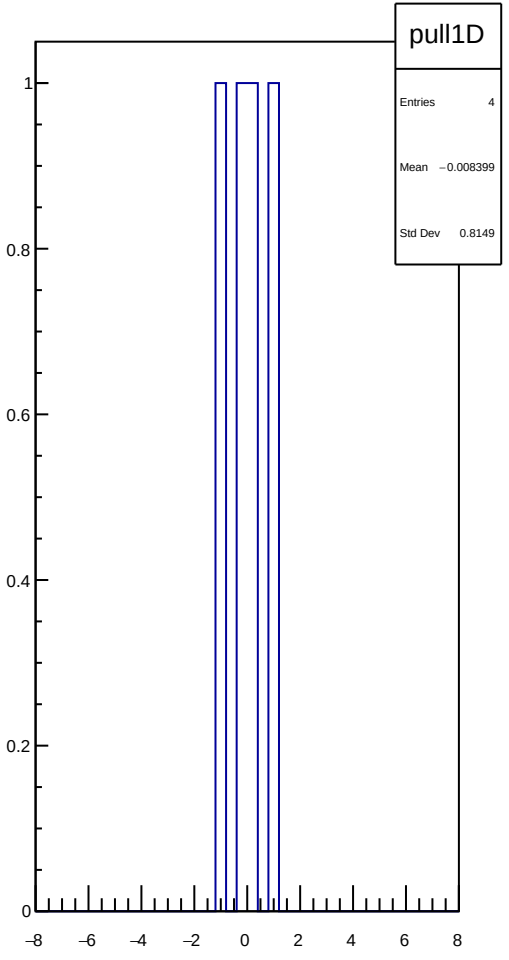

pull
Entries 4
Mean 118
Std Dev 116.3
1
0.5
0
−0.5
−1

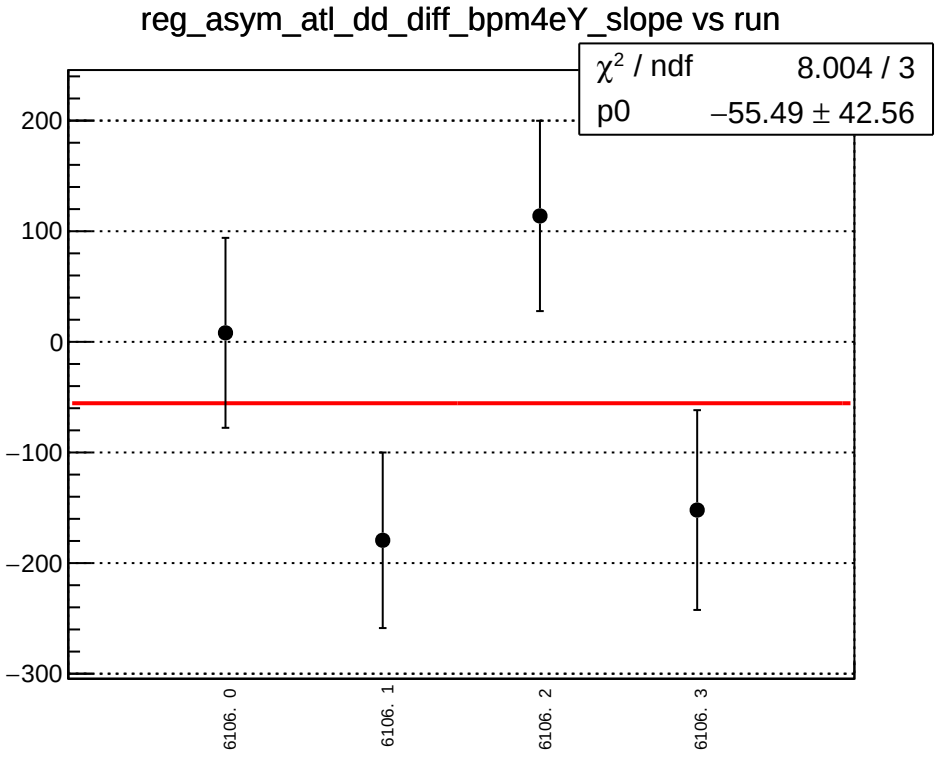

pull1D
Entries 4
Mean 0.005664
Std Dev 0.8251
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

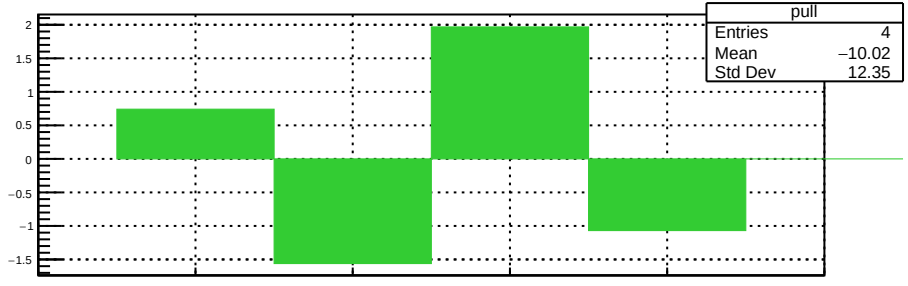

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.789 / 3
p0 60.35 ± 40.23
200
100
0
−100
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.589
Std Dev 6.971
1.5
1
0.5
0
−0.5
−1
−1.5
−2

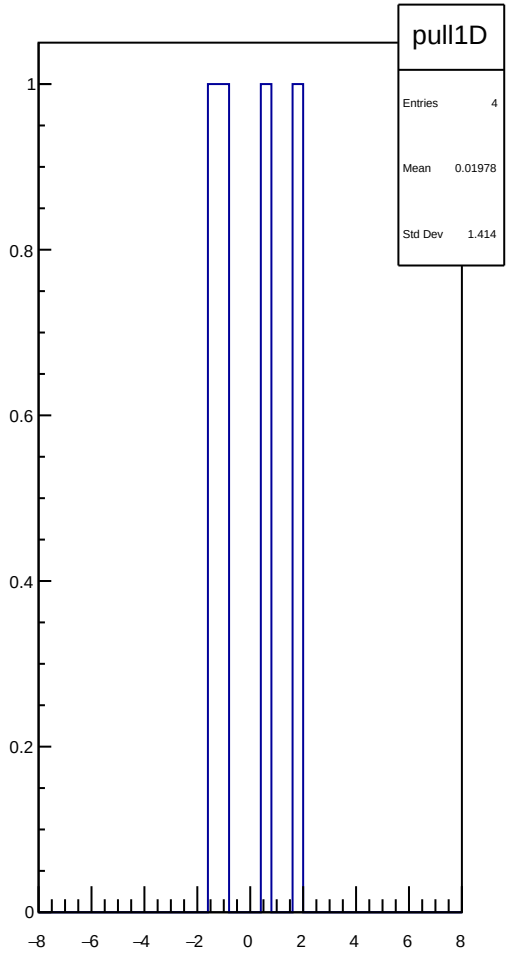

pull1D
Entries 4
Mean −0.04551
Std Dev 1.395
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

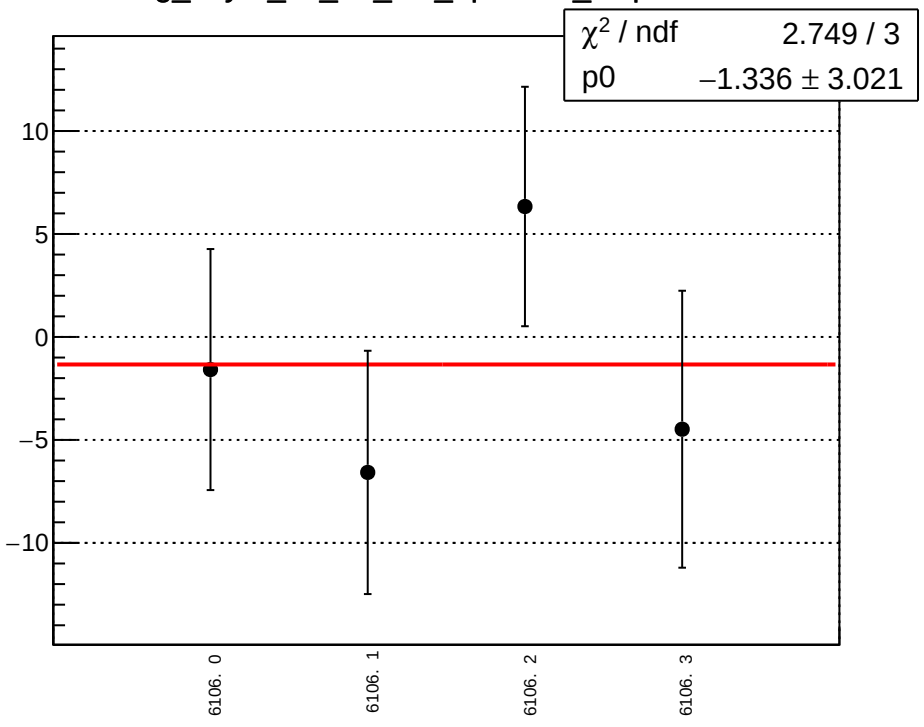

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.656 / 3
p0 54.12 ± 72.48
300
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 82.4
Std Dev 80.68
1
0.5
0
−0.5
−1

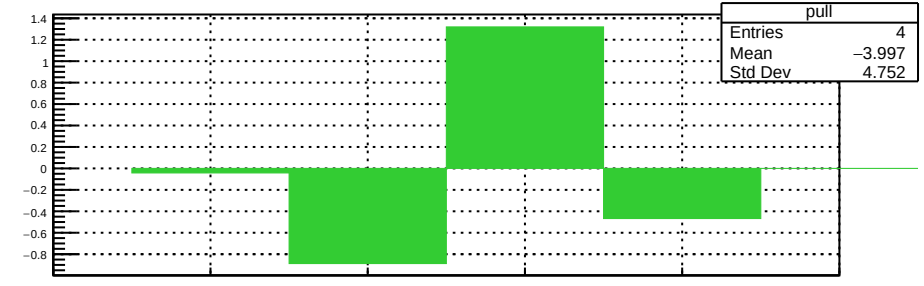

pull1D
Entries 4
Mean −0.008399
Std Dev 0.8149
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

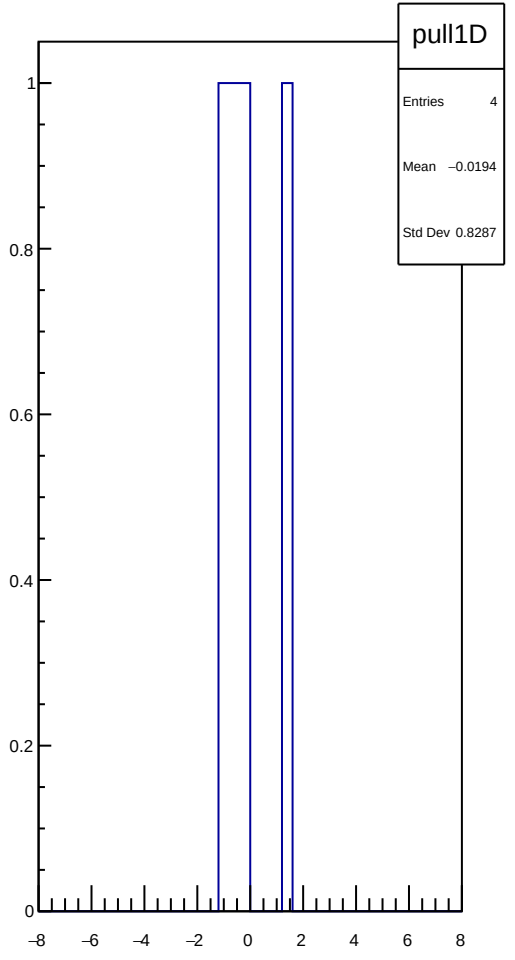

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.004 / 3
p0 −55.49 ± 42.56
200
100
0
−100
−200
−300
6106. 0
6106. 1
6106. 2
6106. 3

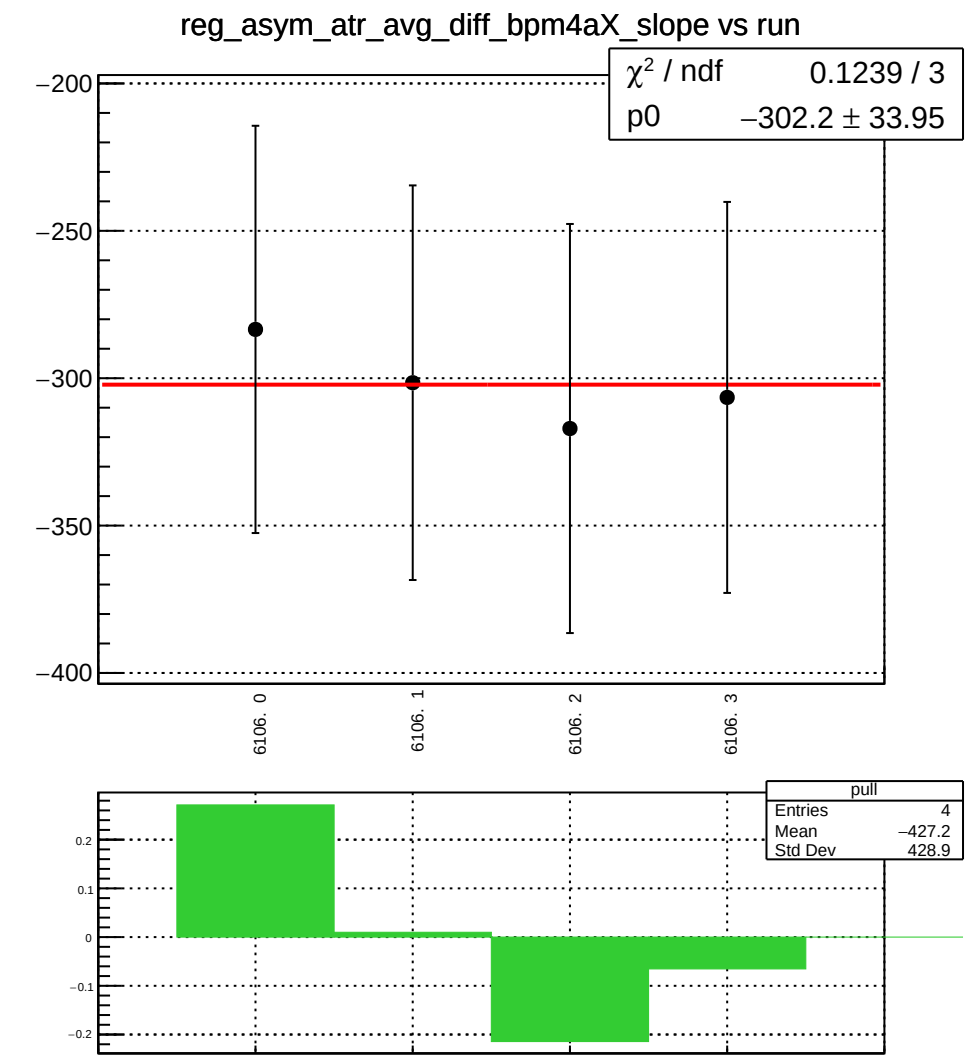

pull
Entries 4
Mean −10.02
Std Dev 12.35
2
1.5
1
0.5
0
−0.5
−1
−1.5

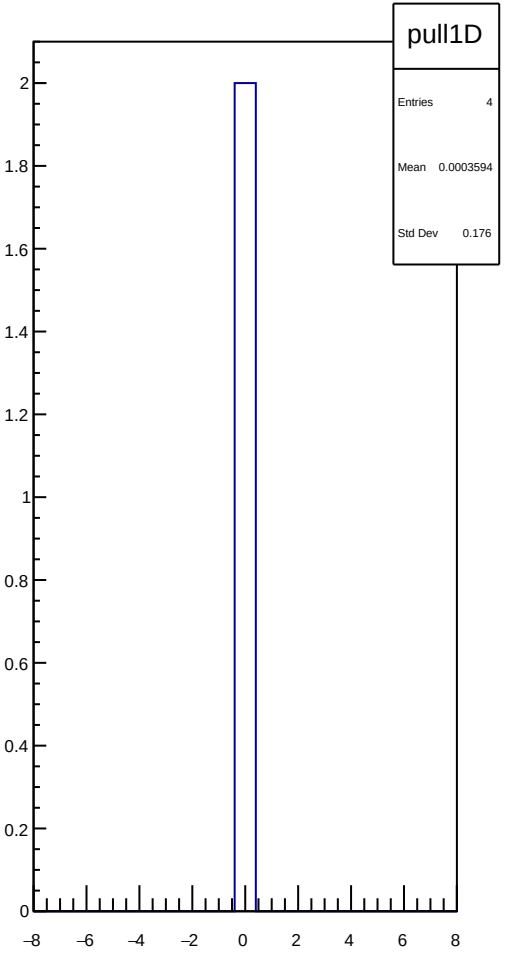

pull1D
Entries 4
Mean 0.01978
Std Dev 1.414
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

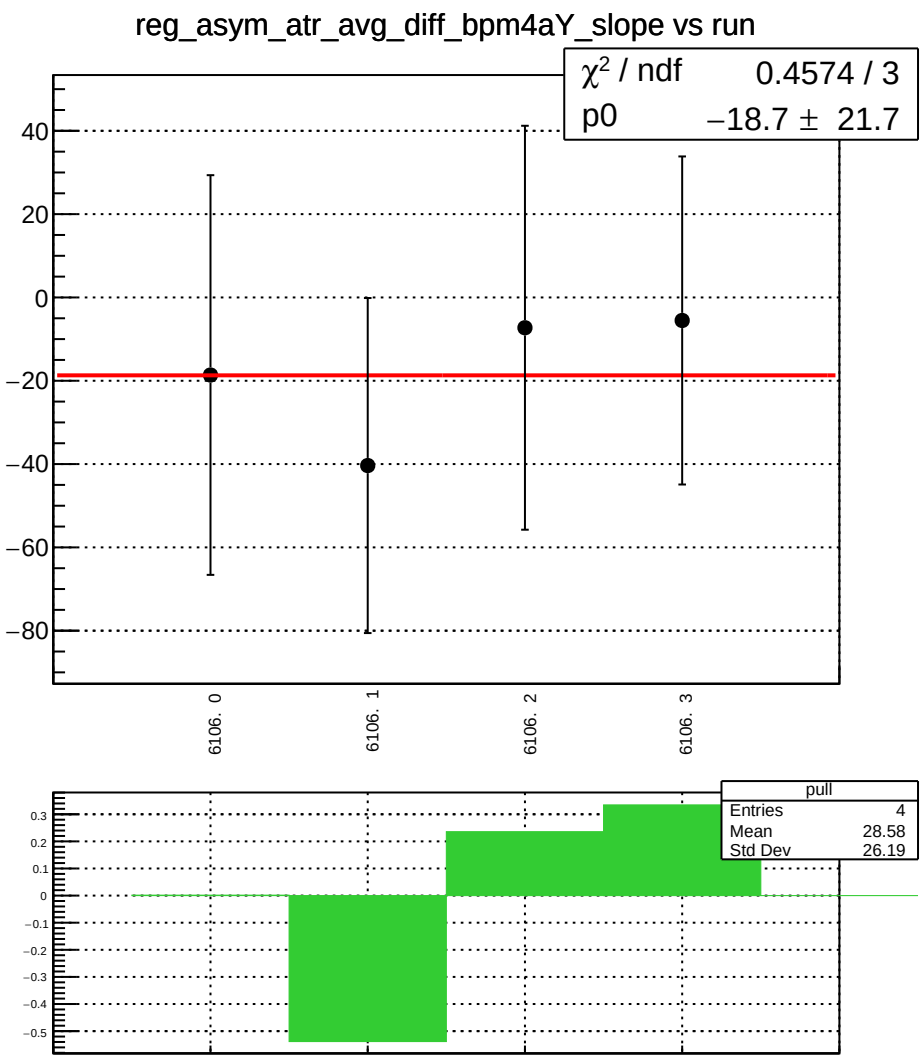

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 2.749 / 3
p0 −1.336 ± 3.021
10
5
0
−5
−10
6106. 0
6106. 1
6106. 2
6106. 3

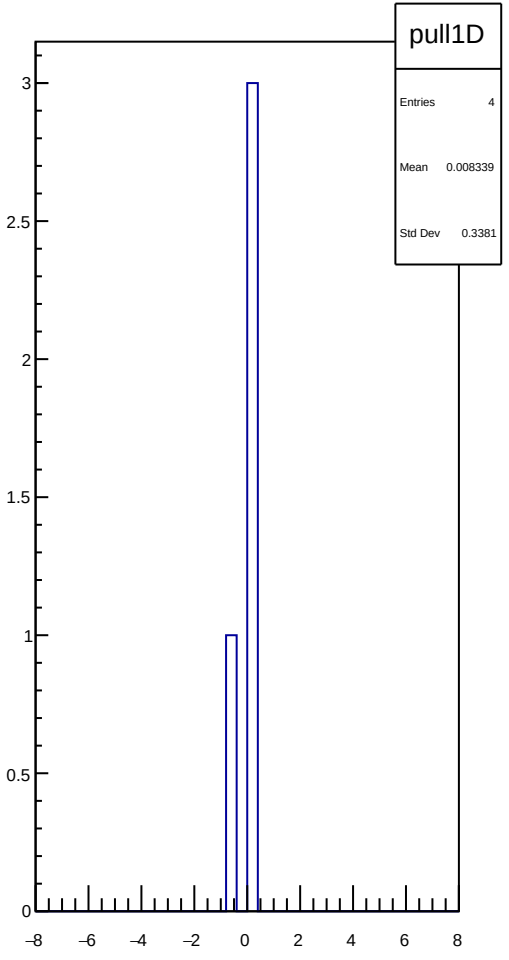

pull
Entries 4
Mean −3.997
Std Dev 4.752
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

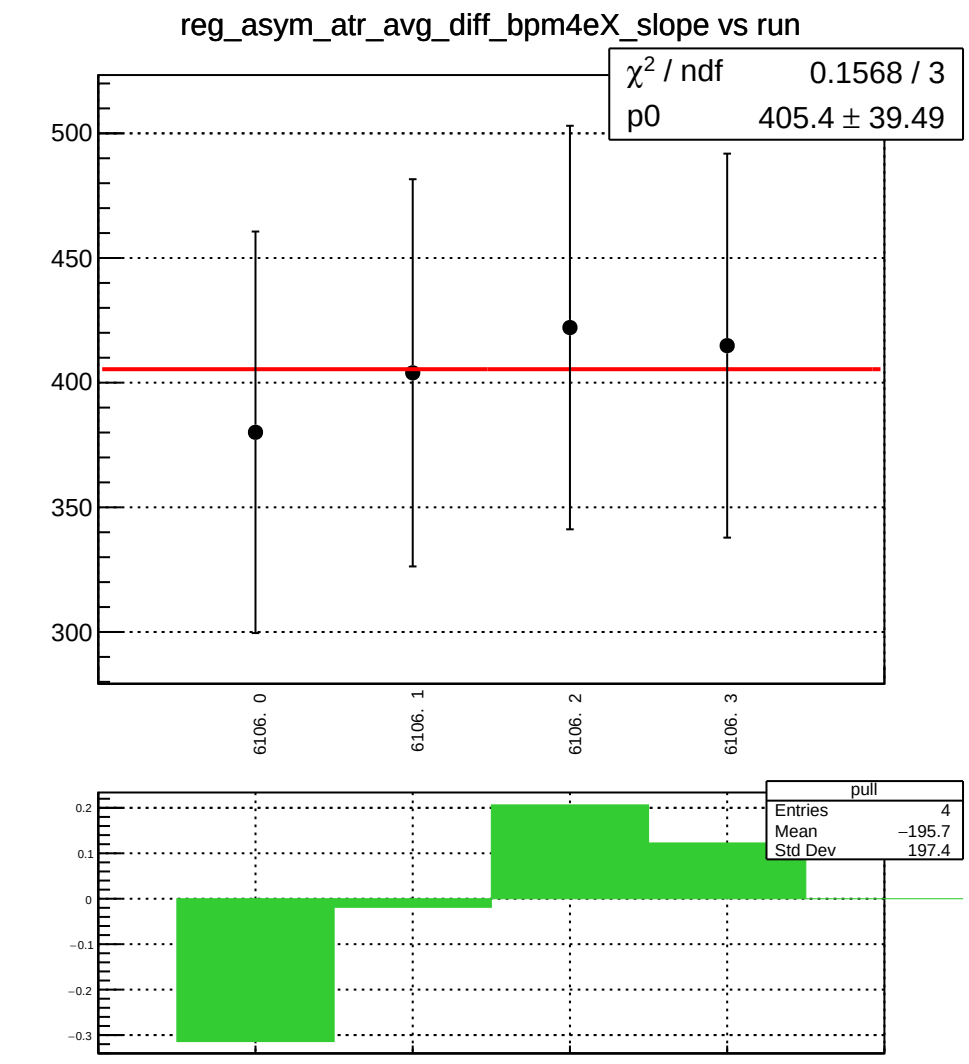

pull1D
Entries 4
Mean −0.0194
Std Dev 0.8287
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

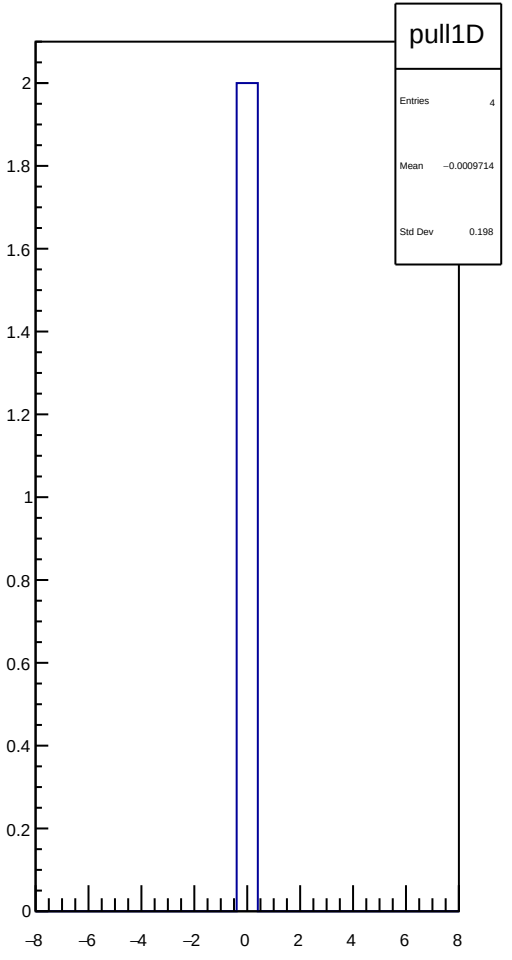

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.1239 / 3
p0 −302.2 ± 33.95
−200
−250
−300
−350
−400
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −427.2
Std Dev 428.9
0.2
0.1
0
−0.1
−0.2

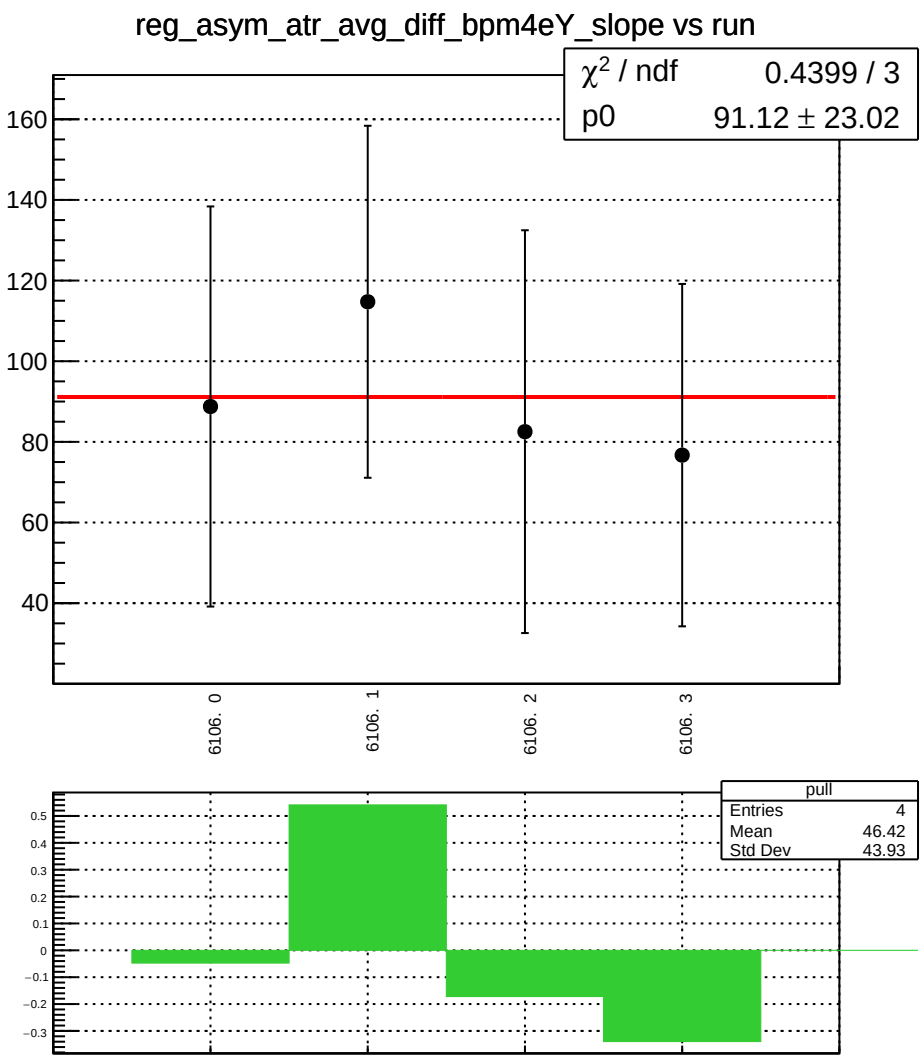

pull1D
Entries 4
Mean 0.0003594
Std Dev 0.176
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

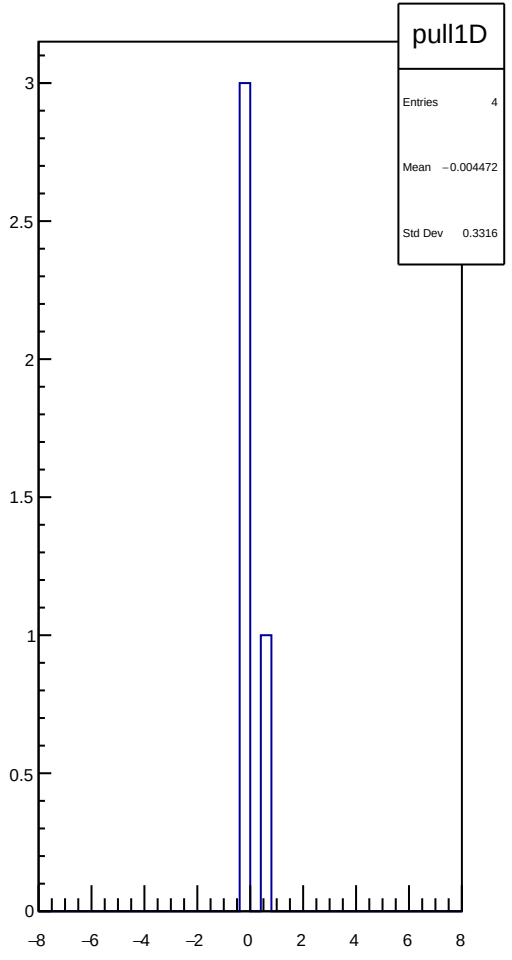

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4574 / 3
p0 −18.7 ± 21.7
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 28.58
Std Dev 26.19
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

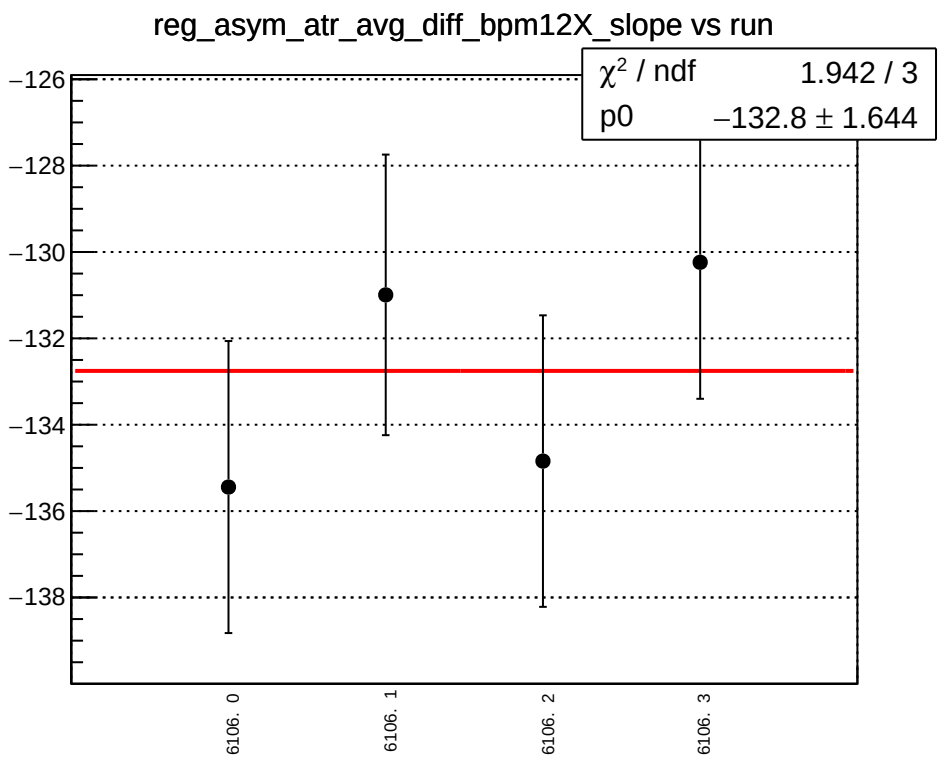

pull1D
Entries 4
Mean 0.008339
Std Dev 0.3381
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

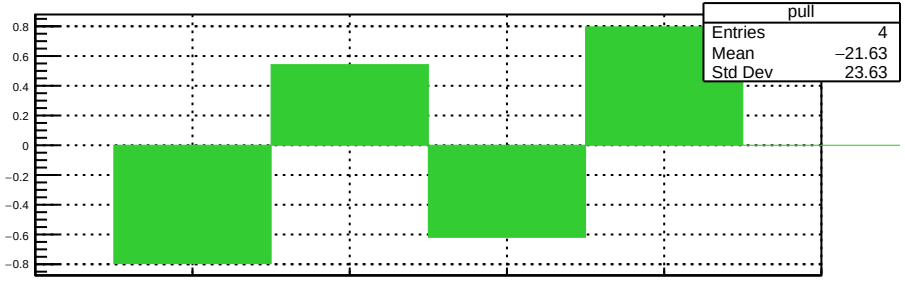

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.1568 / 3
p0 405.4 ± 39.49
500
450
400
350
300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −195.7
Std Dev 197.4
0.2
0.1
0
−0.1
−0.2
−0.3

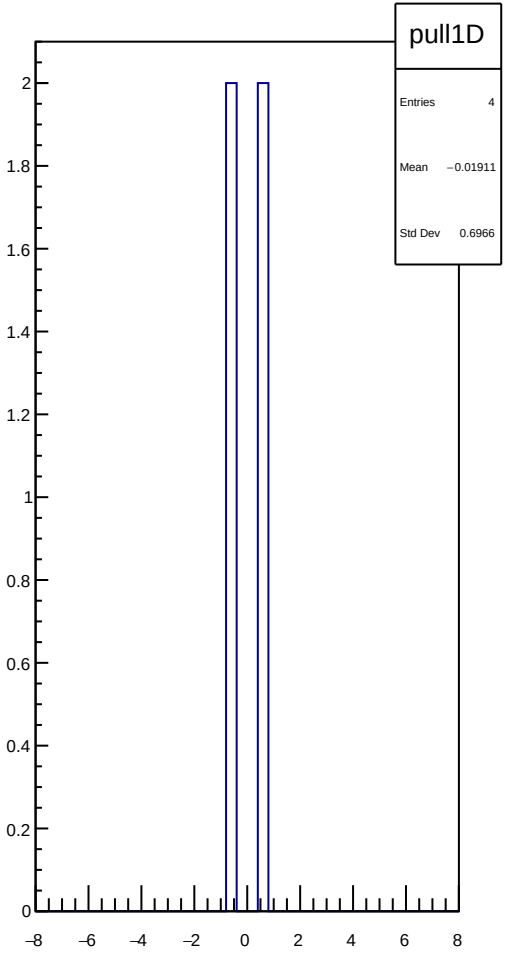

pull1D
Entries 4
Mean −0.0009714
Std Dev 0.198
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

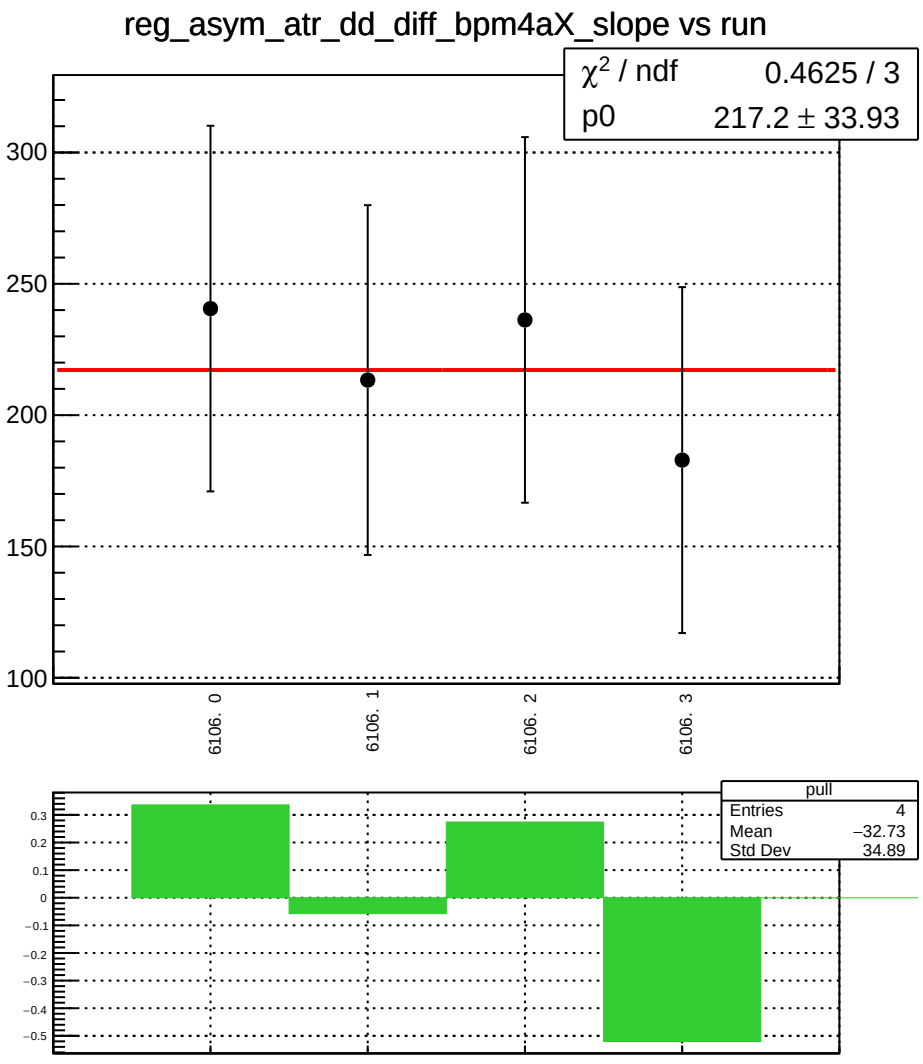

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4399 / 3
p0 91.12 ± 23.02
160
140
120
100
80
60
40
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 46.42
Std Dev 43.93
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

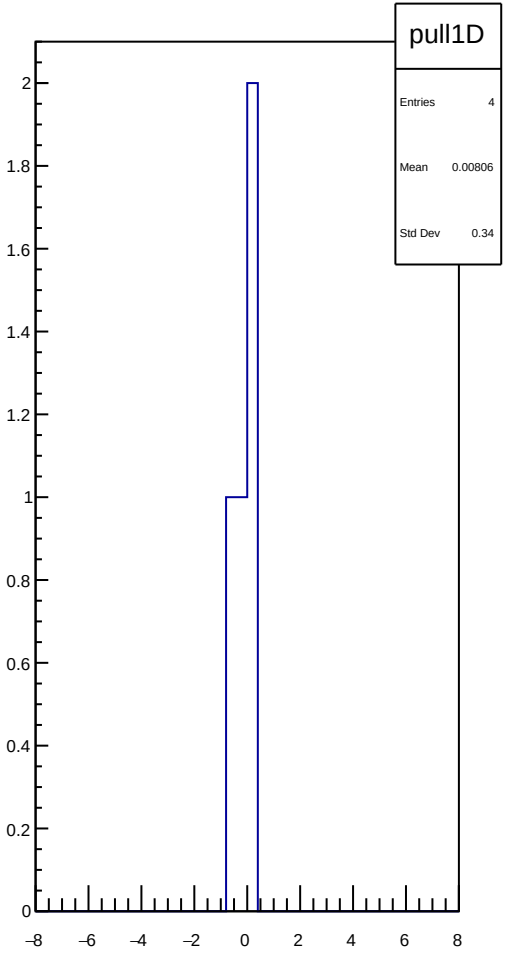

pull1D
Entries 4
Mean −0.004472
Std Dev 0.3316
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

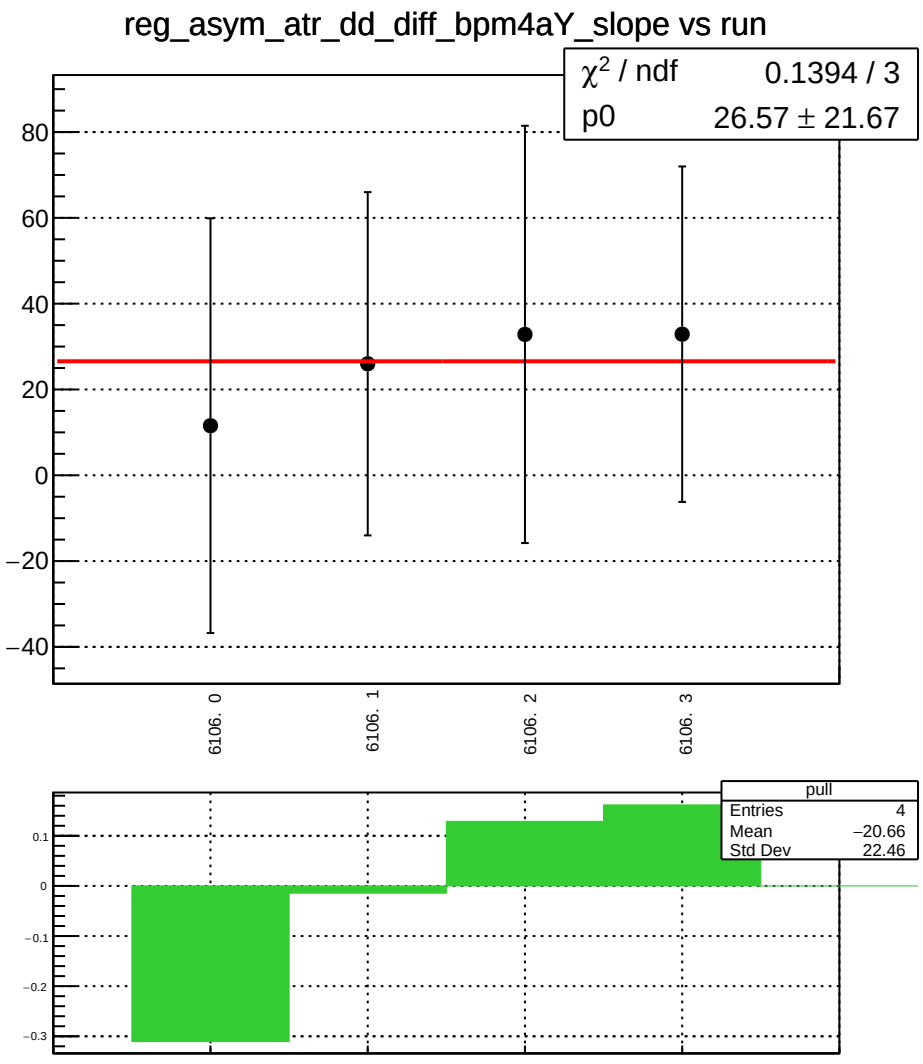

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 1.942 / 3
p0 −132.8 ± 1.644
−126
−128
−130
−132
−134
−136
−138
6106. 0
6106. 1
6106. 2
6106. 3

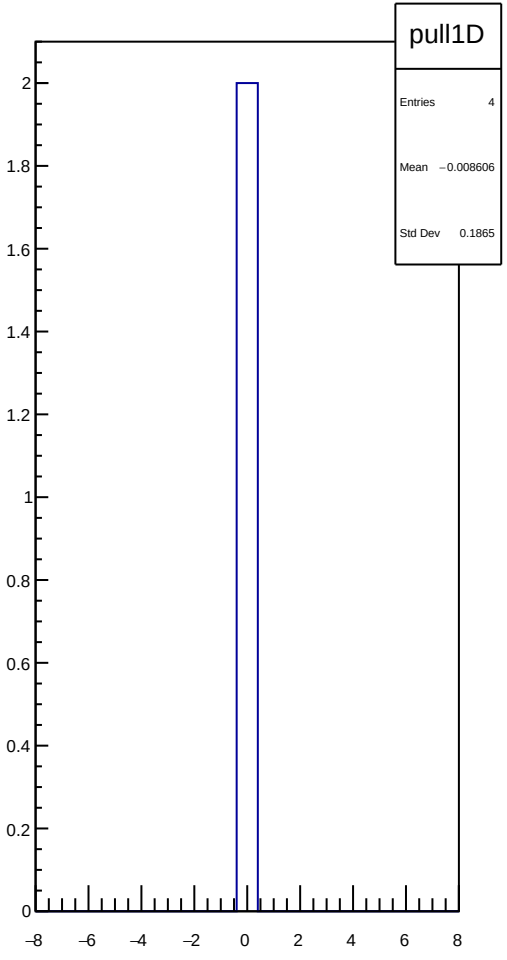

pull
Entries 4
Mean −21.63
Std Dev 23.63
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

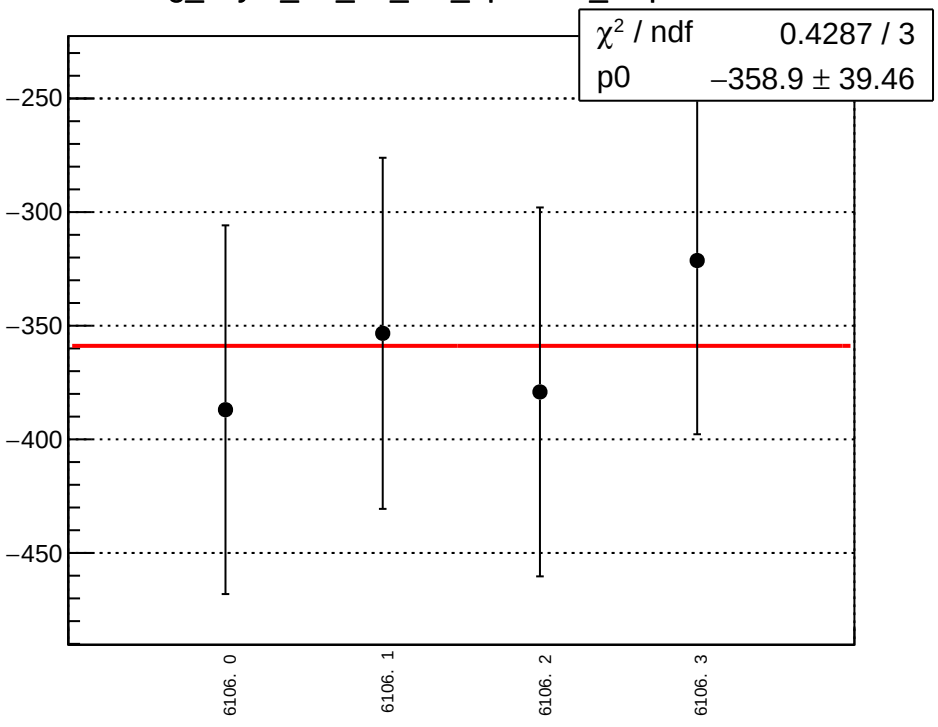

pull1D
Entries 4
Mean −0.01911
Std Dev 0.6966
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

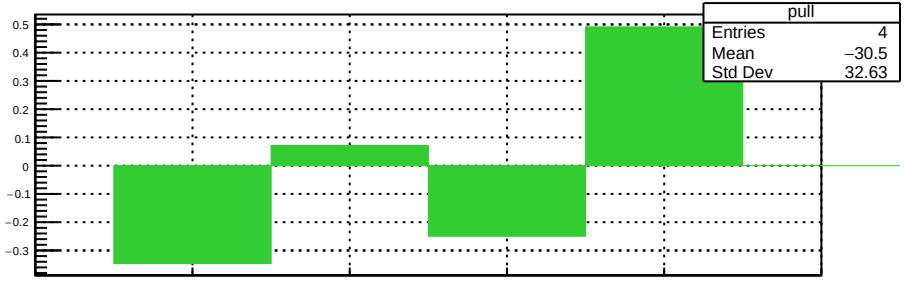

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.4625 / 3
p0 217.2 ± 33.93
300
250
200
150
100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −32.73
Std Dev 34.89
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

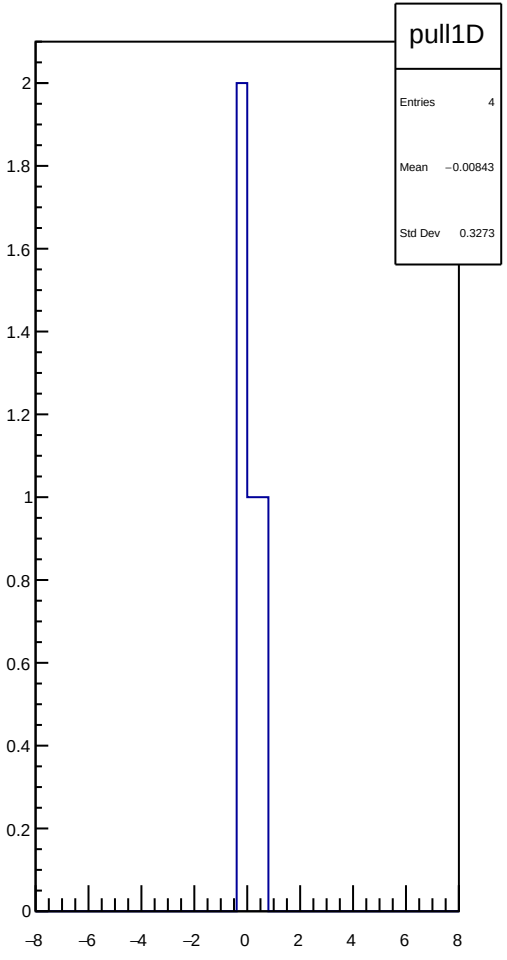

pull1D
Entries 4
Mean 0.00806
Std Dev 0.34
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

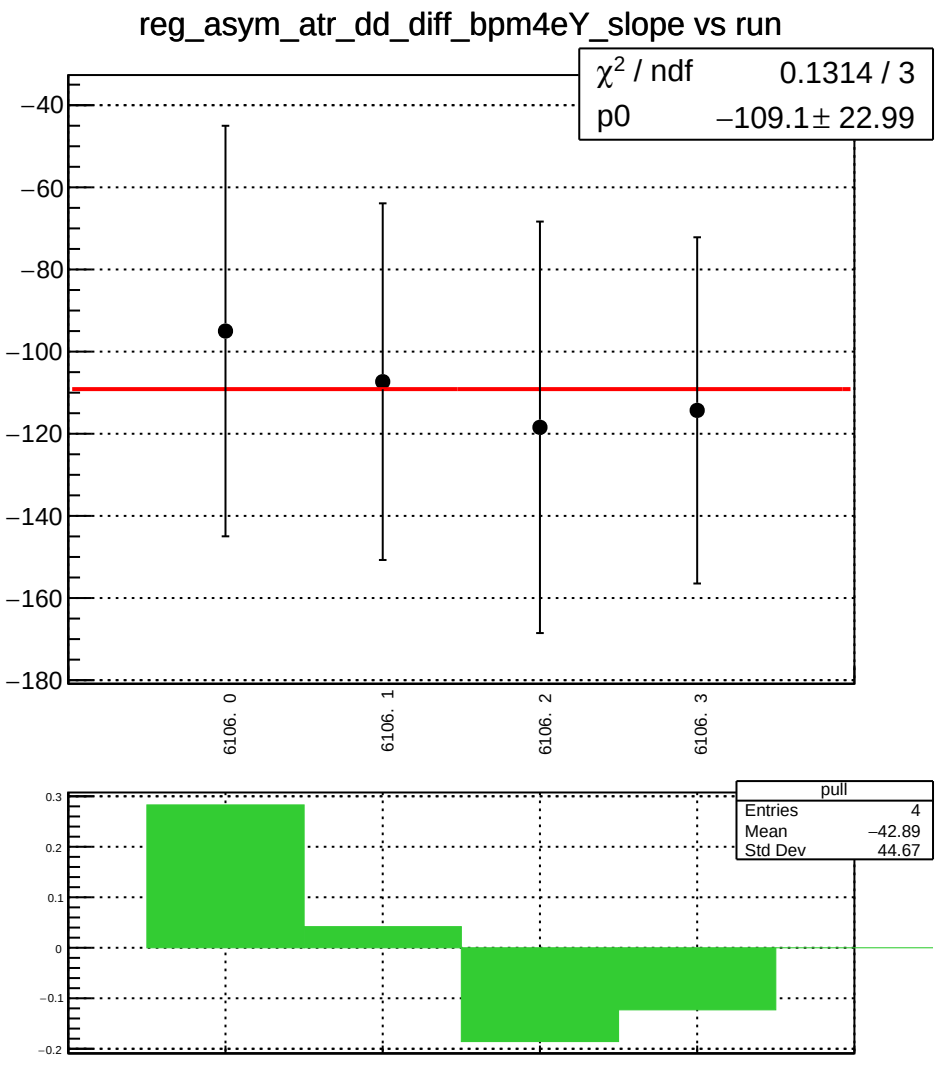

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1394 / 3
p0 26.57 ± 21.67
80
60
40
20
0
−20
−40
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −20.66
Std Dev 22.46
0.1
0
−0.1
−0.2
−0.3

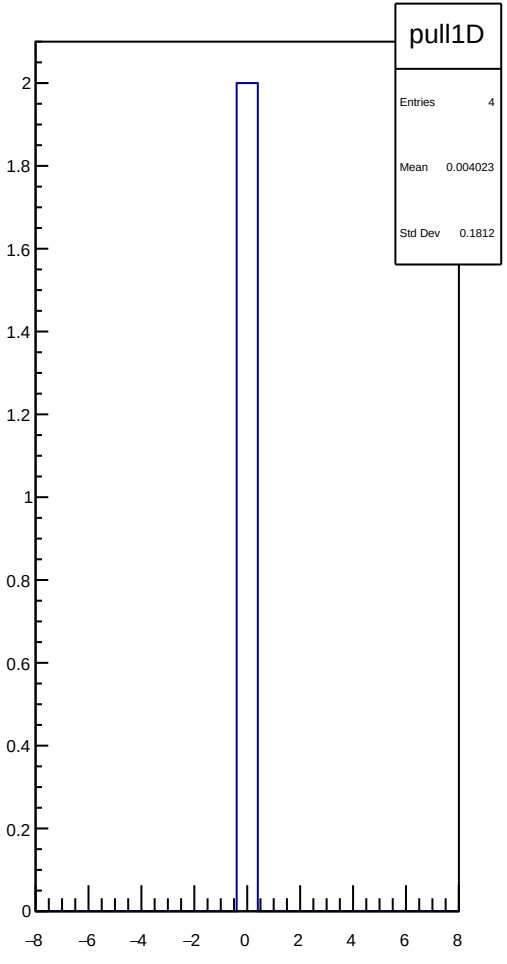

pull1D
Entries 4
Mean −0.008606
Std Dev 0.1865
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

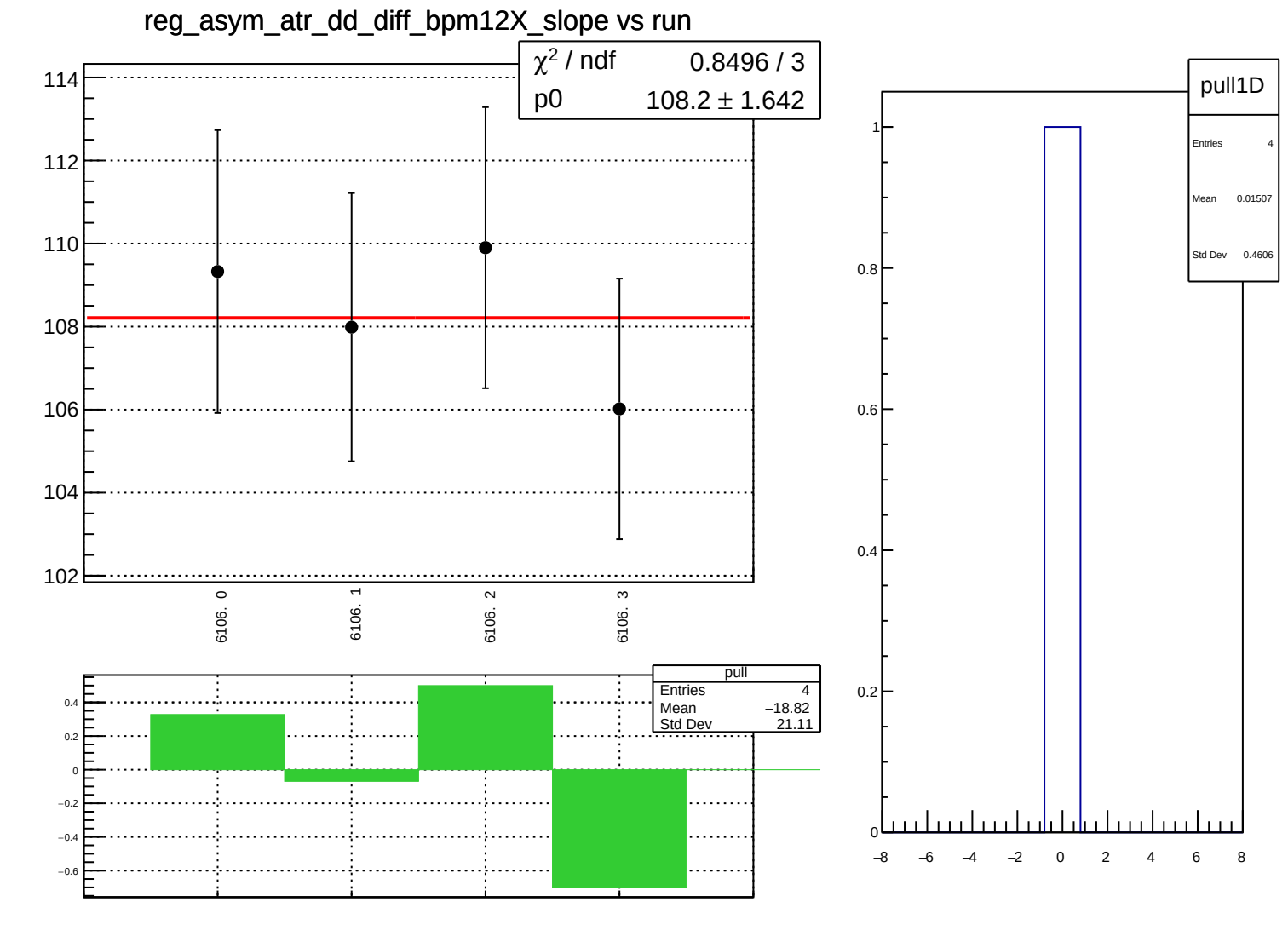

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4287 / 3
p0 −358.9 ± 39.46
−250
−300
−350
−400
−450
6106. 0
6106. 1
6106. 2
6106. 3

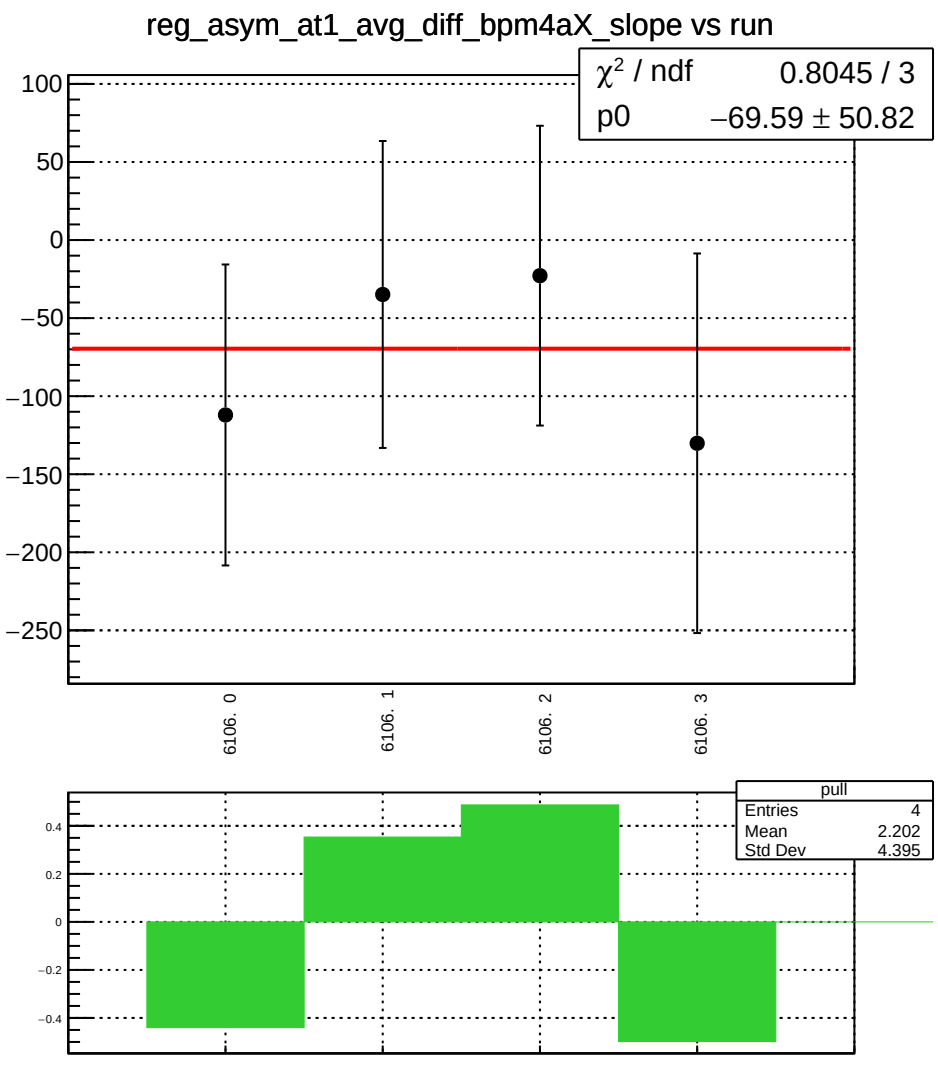

pull
Entries 4
Mean −30.5
Std Dev 32.63
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

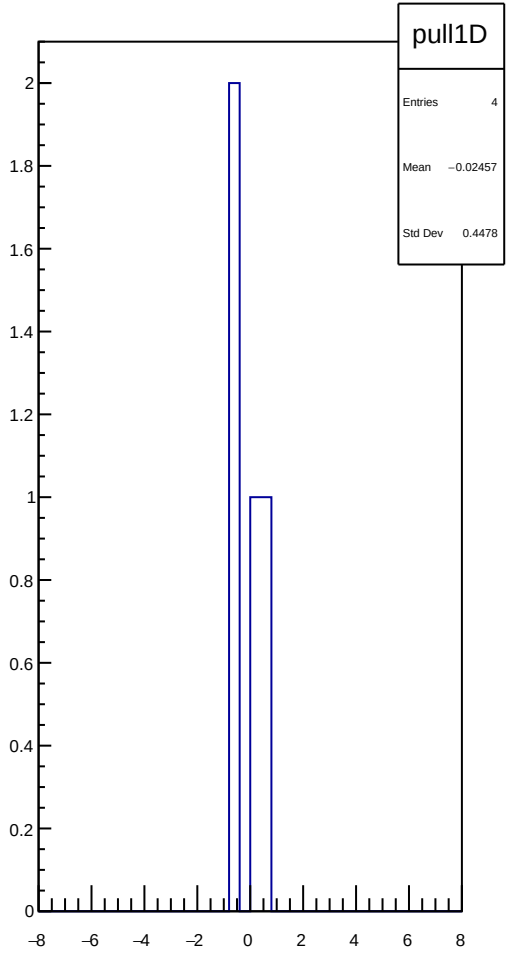

pull1D
Entries 4
Mean −0.00843
Std Dev 0.3273
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

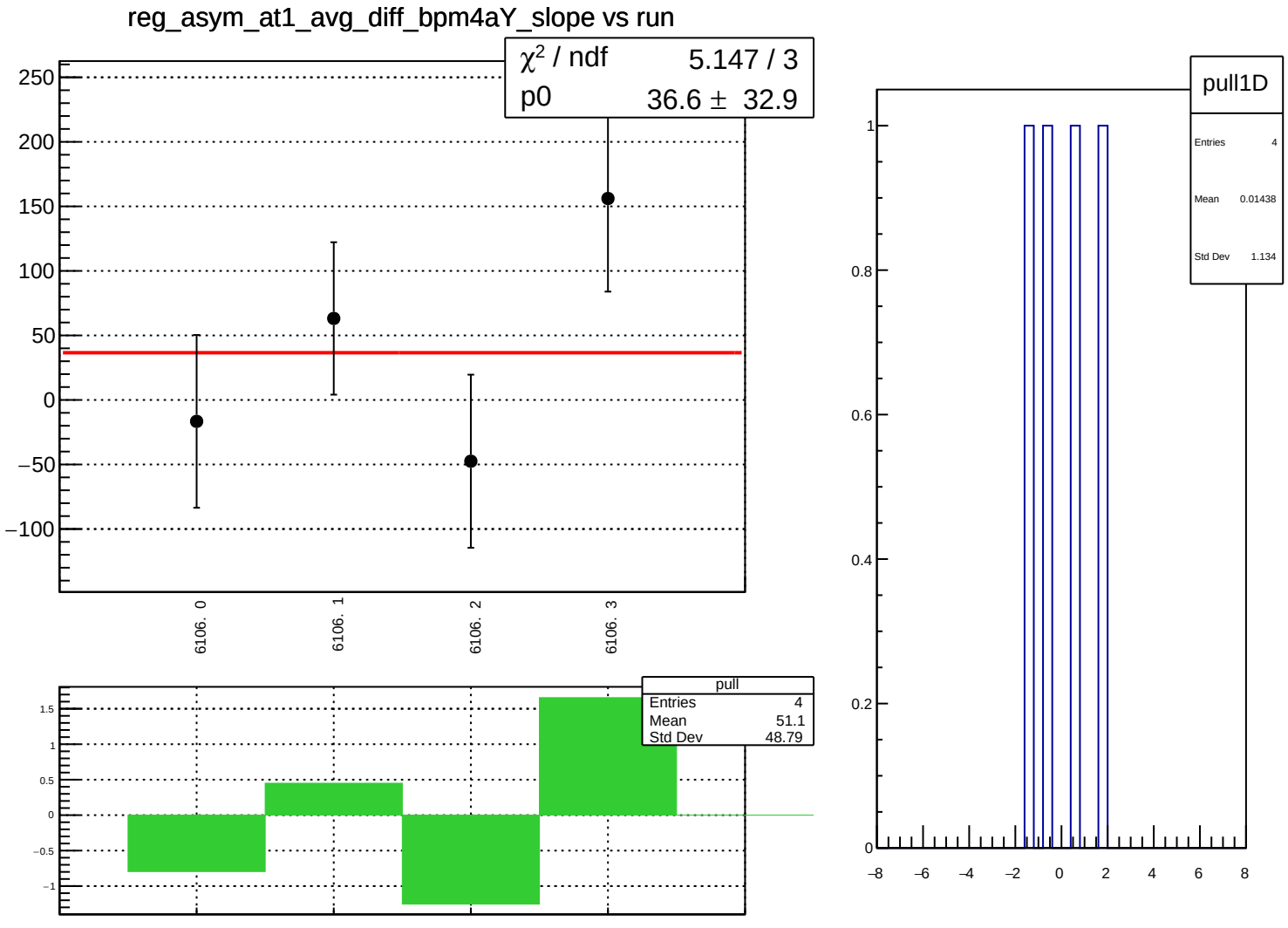

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1314 / 3
p0 −109.1± 22.99
−40
−60
−80
−100
−120
−140
−160
−180
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −42.89
Std Dev 44.67
0.3
0.2
0.1
0
−0.1
−0.2

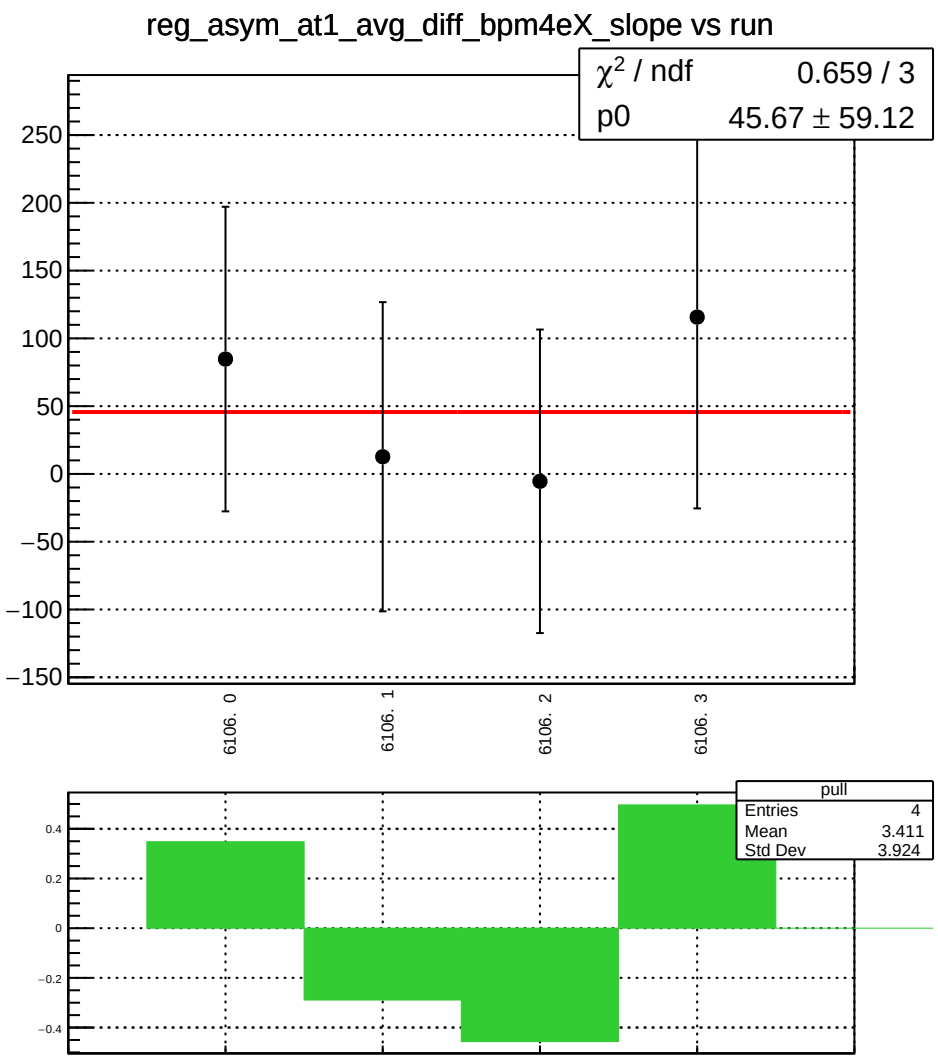

pull1D
Entries 4
Mean 0.004023
Std Dev 0.1812
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

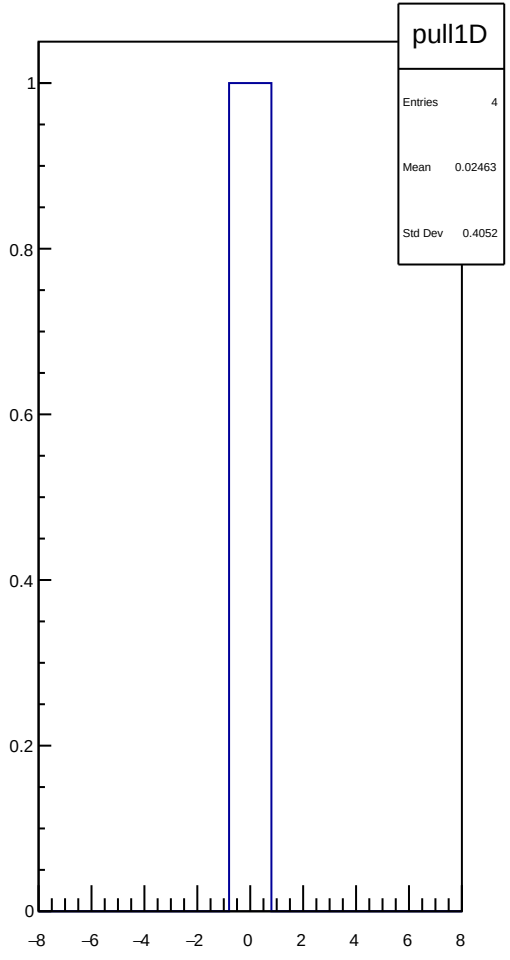

reg_asym_atr_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 0.8496 / 3
p0 108.2 ± 1.642
114
112
110
108
106
104
102
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −18.82
Std Dev 21.11
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.01507
Std Dev 0.4606
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

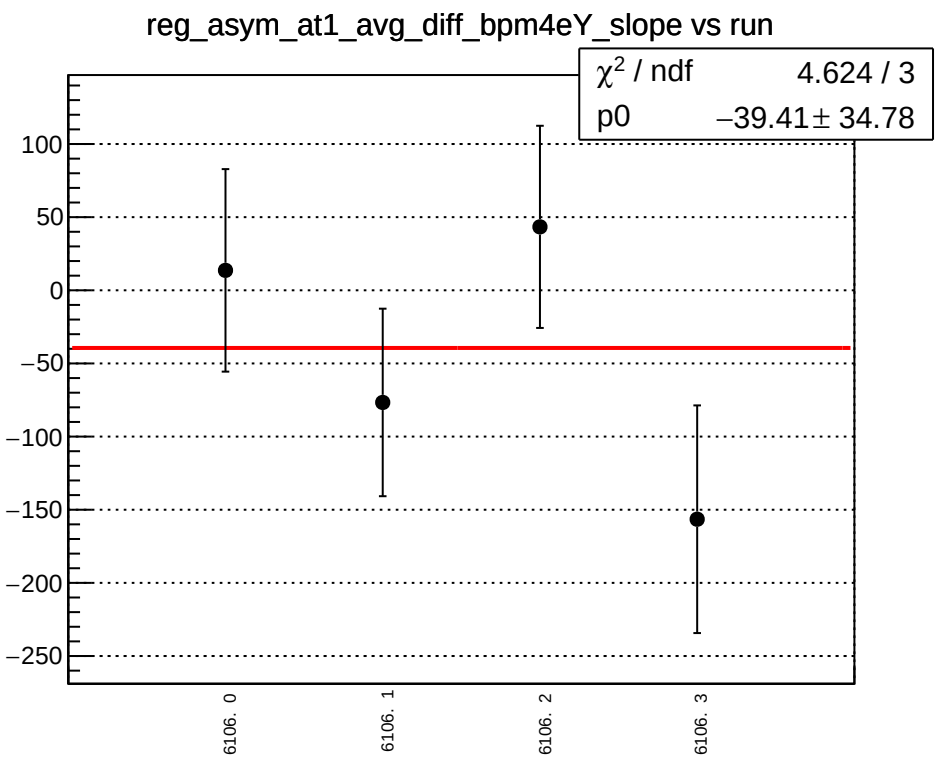

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.8045 / 3
p0 −69.59 ± 50.82
100
50
0
−50
−100
−150
−200
−250
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 2.202
Std Dev 4.395
0.4
0.2
0
−0.2
−0.4

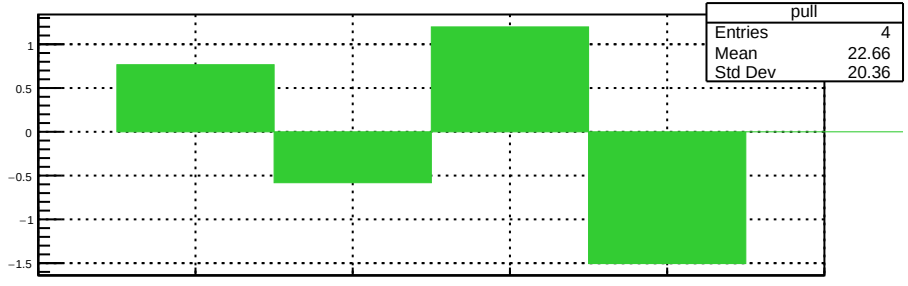

pull1D
Entries 4
Mean −0.02457
Std Dev 0.4478
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

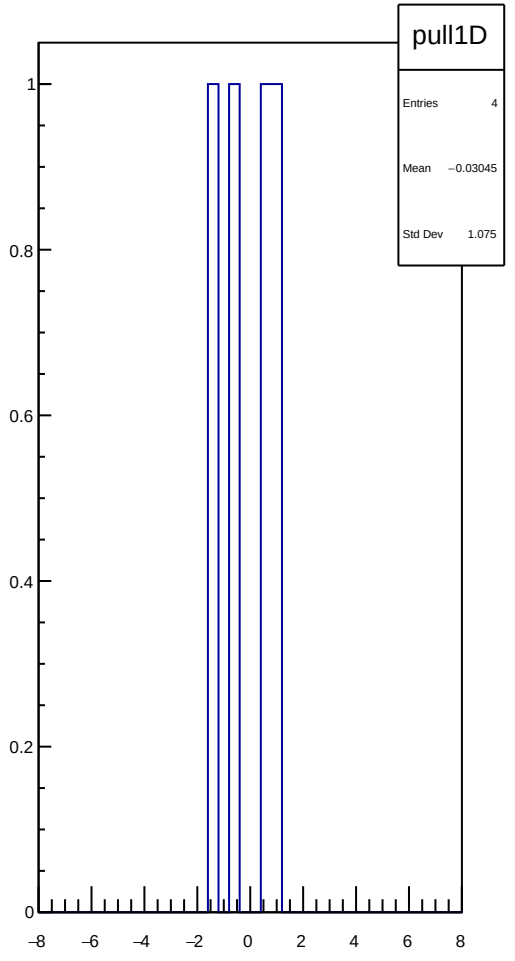

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.147 / 3
p0 36.6 ± 32.9
250
200
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 51.1
Std Dev 48.79
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean 0.01438
Std Dev 1.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

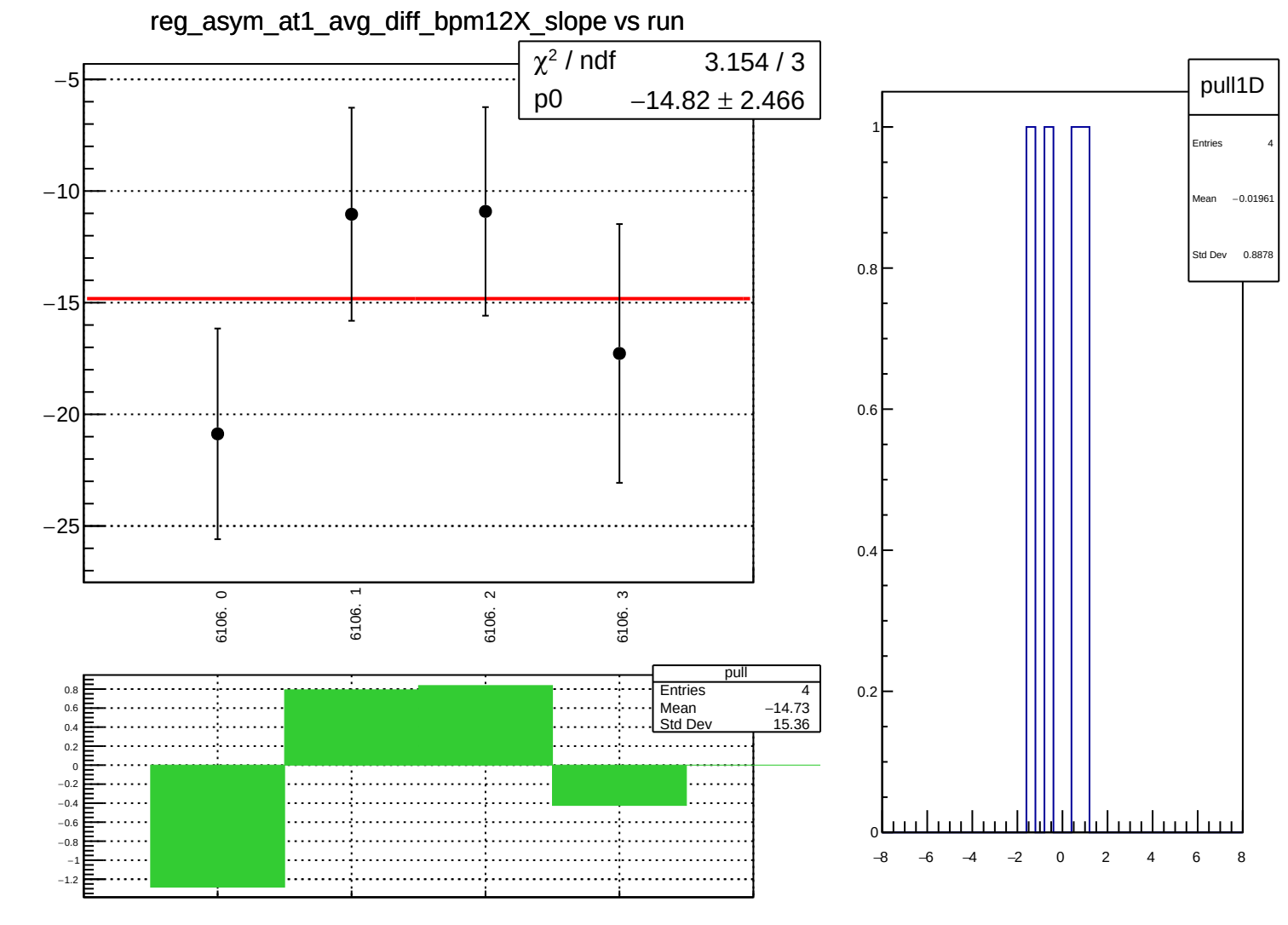

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.659 / 3
p0 45.67 ± 59.12
250
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 3.411
Std Dev 3.924
0.4
0.2
0
−0.2
−0.4

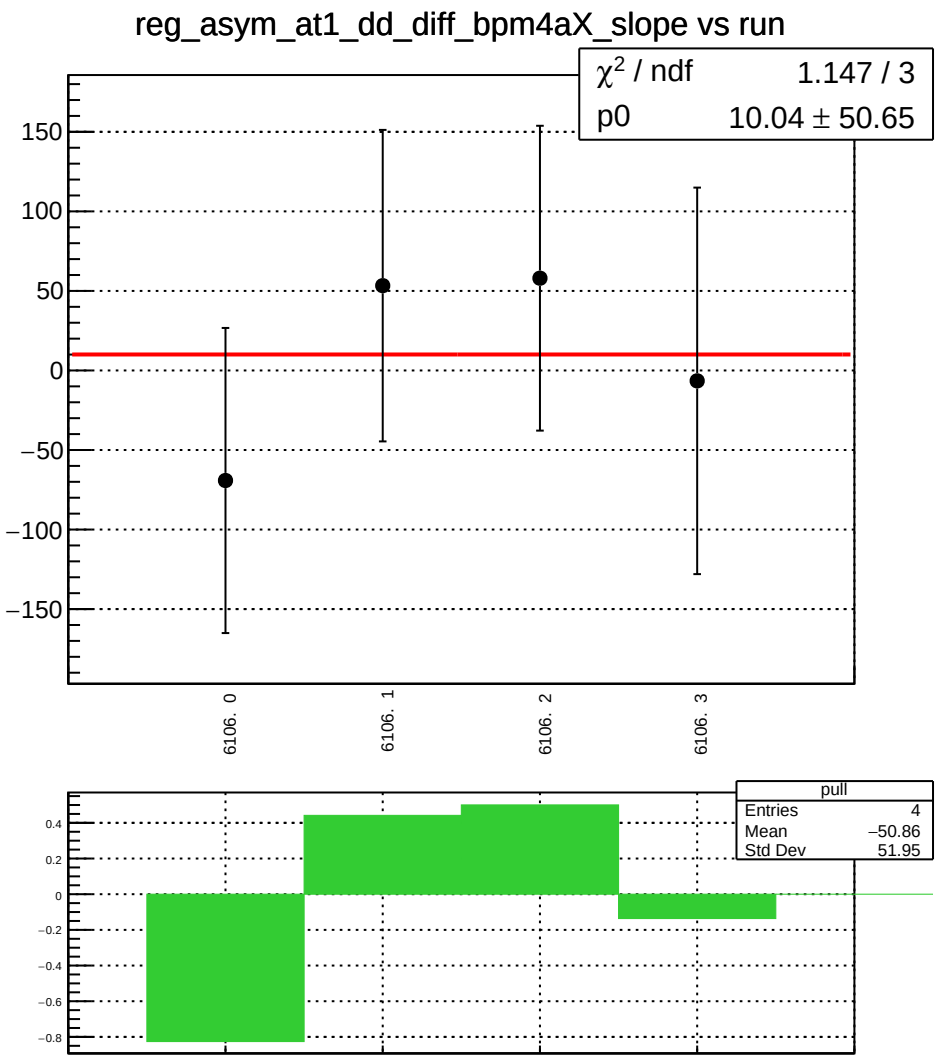

pull1D
Entries 4
Mean 0.02463
Std Dev 0.4052
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

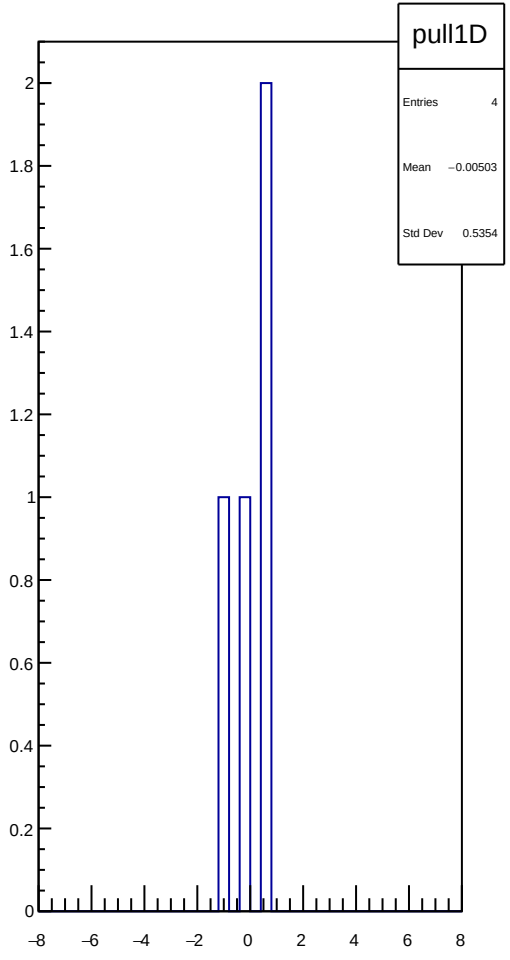

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.624 / 3
p0 −39.41 ± 34.78
100
50
0
−50
−100
−150
−200
−250
6106. 0
6106. 1
6106. 2
6106. 3

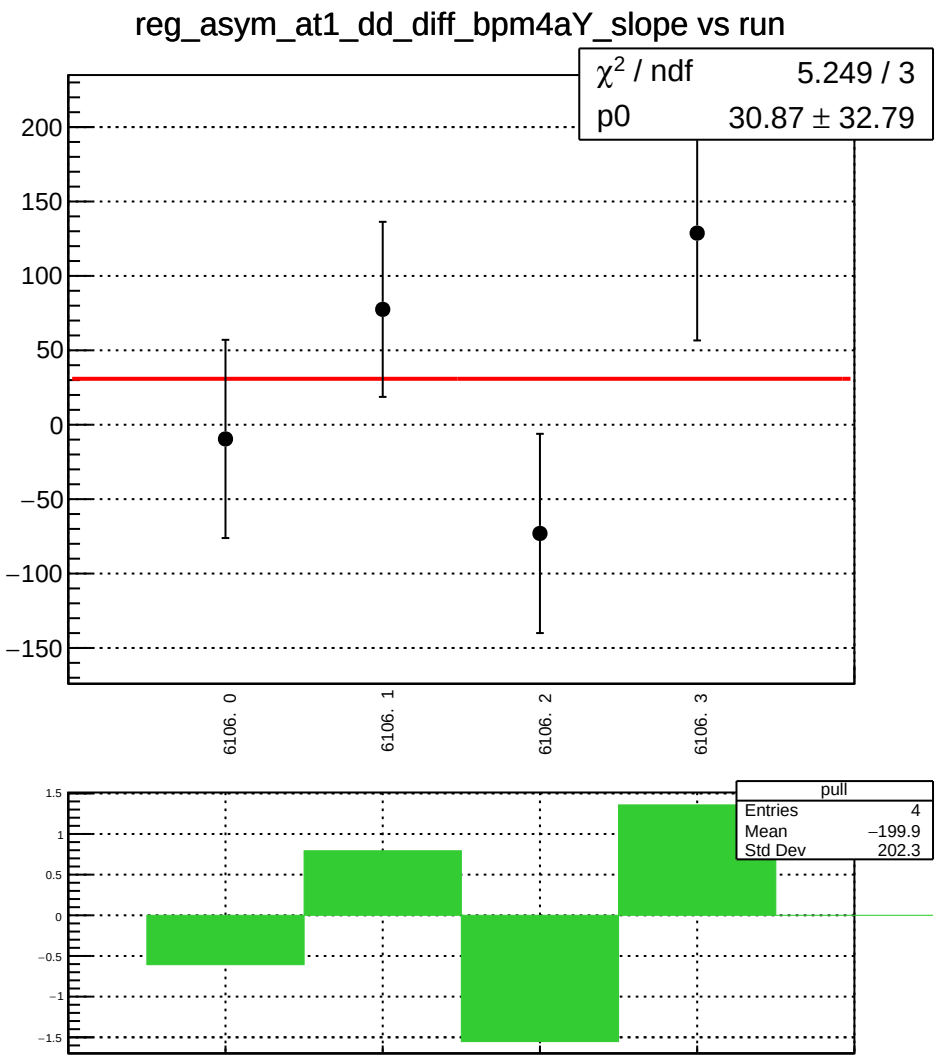

pull
Entries 4
Mean 22.66
Std Dev 20.36
1
0.5
0
−0.5
−1
−1.5

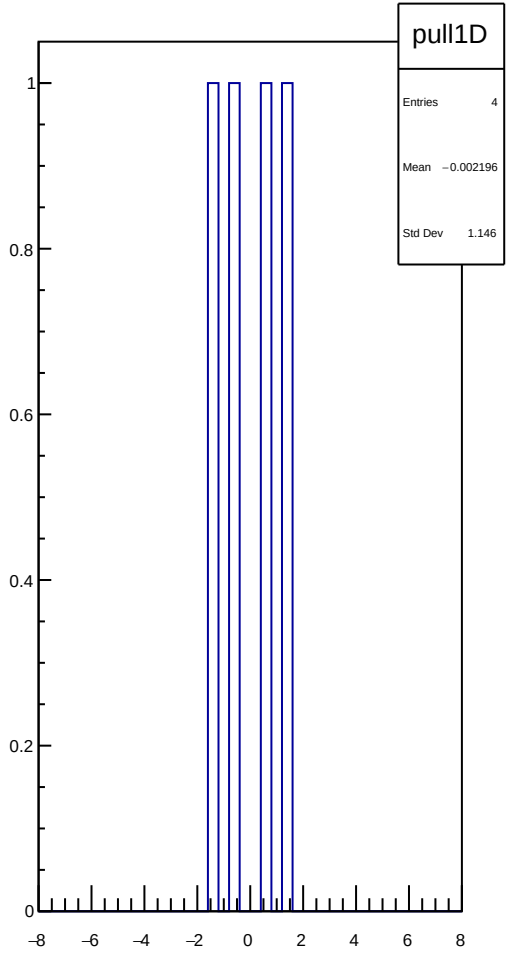

pull1D
Entries 4
Mean −0.03045
Std Dev 1.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

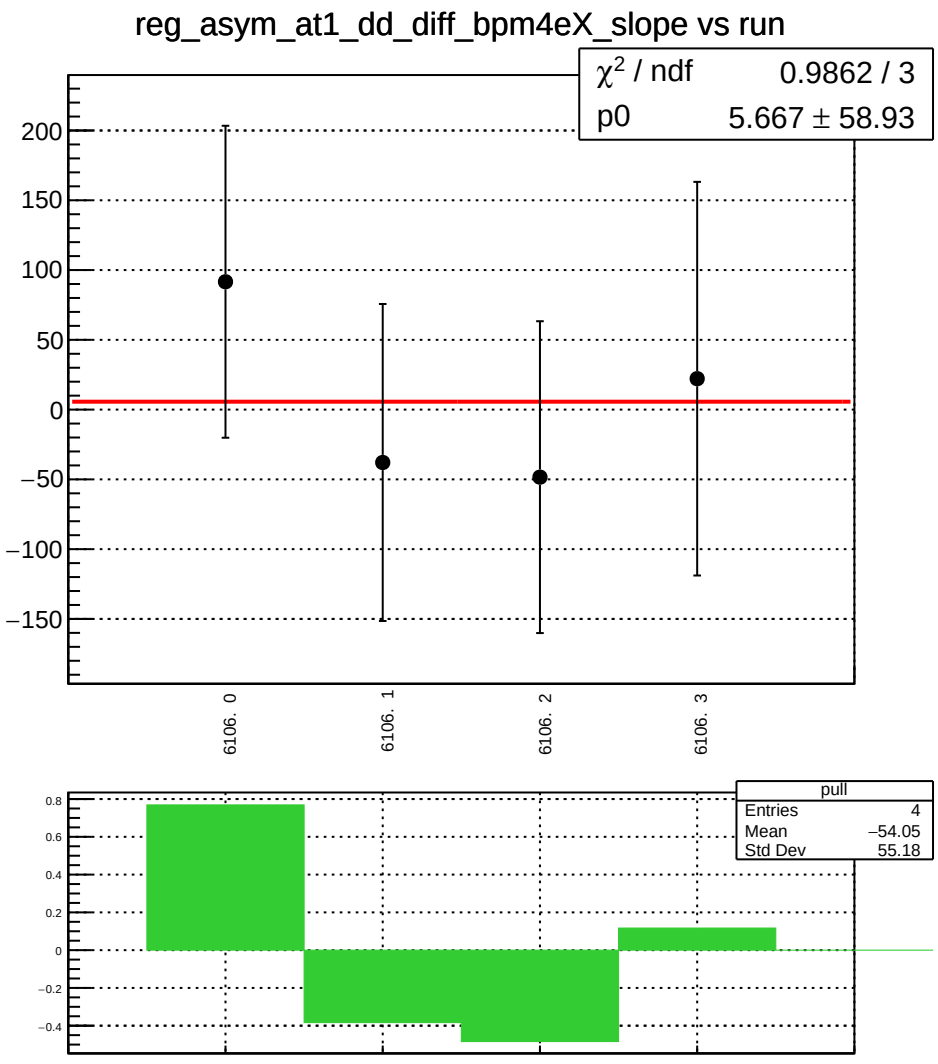

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 3.154 / 3
p0 −14.82 ± 2.466
−5
−10
−15
−20
−25
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −14.73
Std Dev 15.36
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.01961
Std Dev 0.8878
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

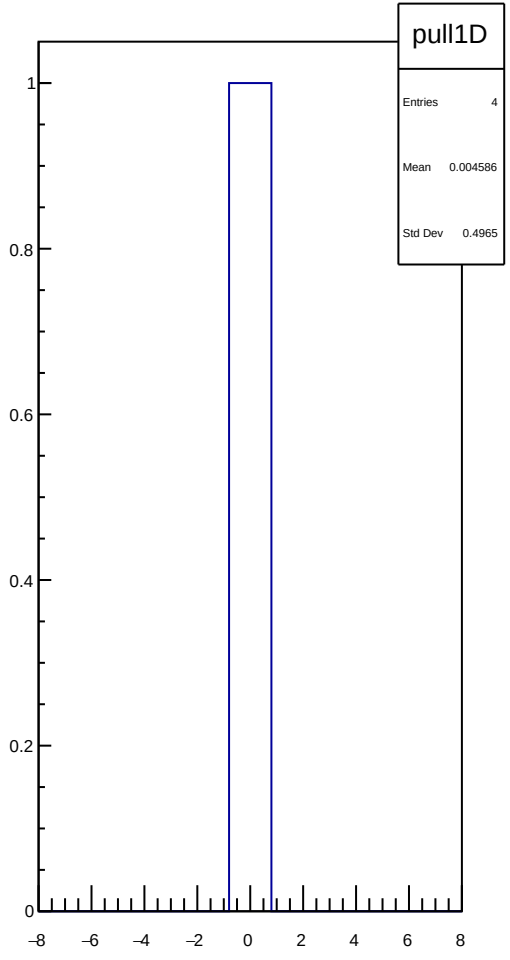

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.147 / 3
p0 10.04 ± 50.65
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −50.86
Std Dev 51.95
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

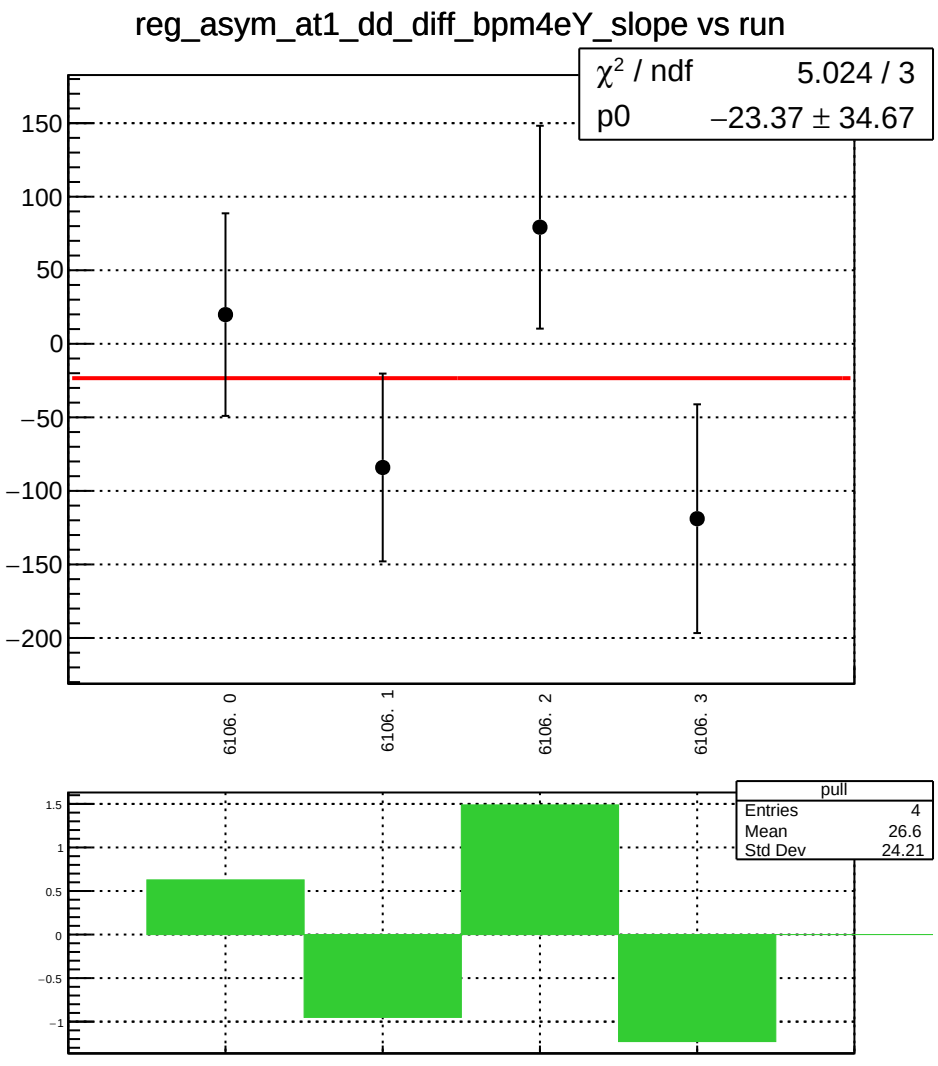

pull1D
Entries 4
Mean −0.00503
Std Dev 0.5354
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

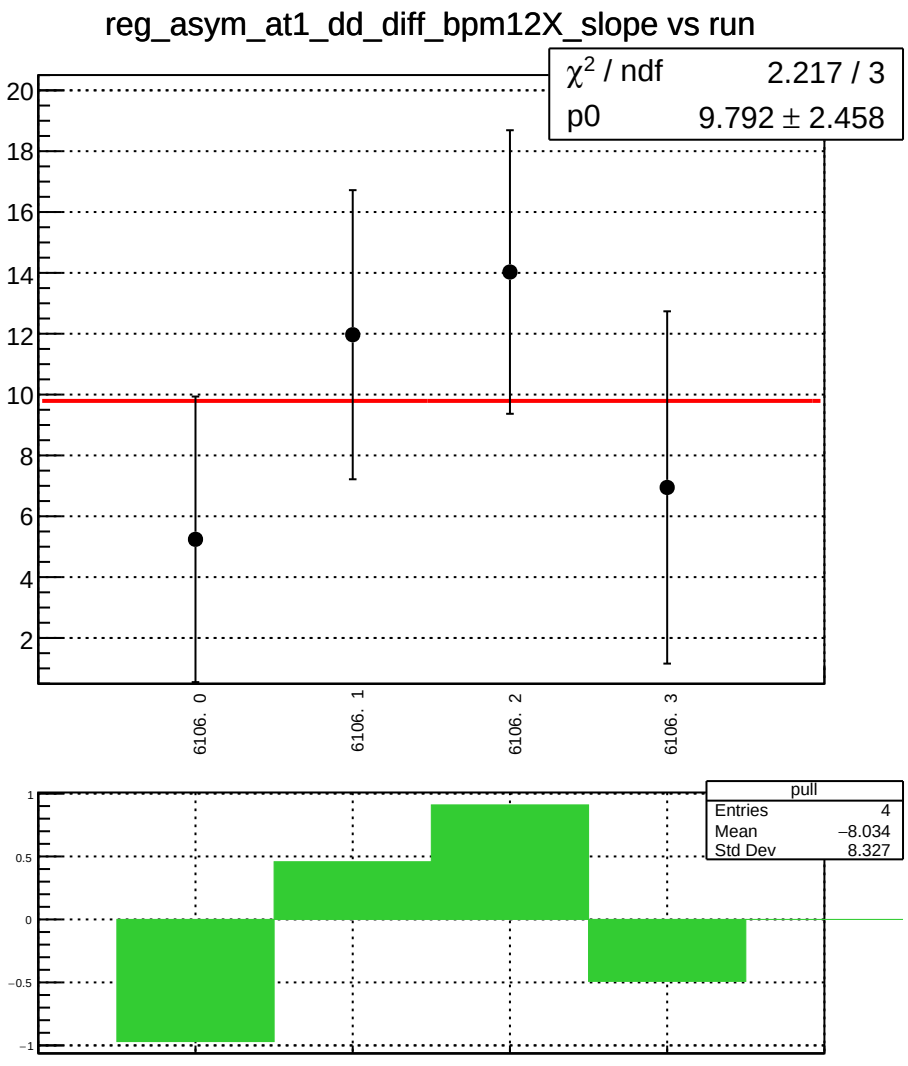

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.249 / 3
p0 30.87 ± 32.79
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −199.9
Std Dev 202.3
1.5
1
0.5
0
−0.5
−1
−1.5

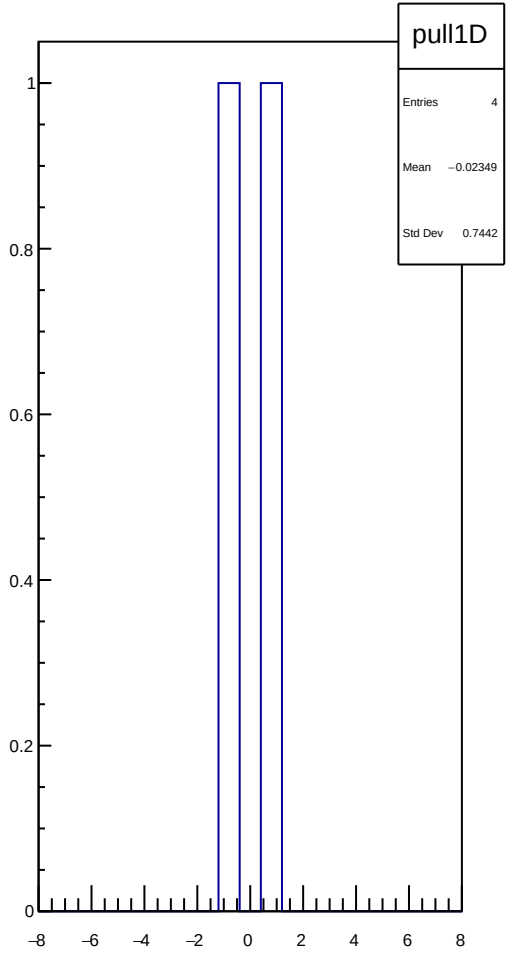

pull1D
Entries 4
Mean −0.002196
Std Dev 1.146
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

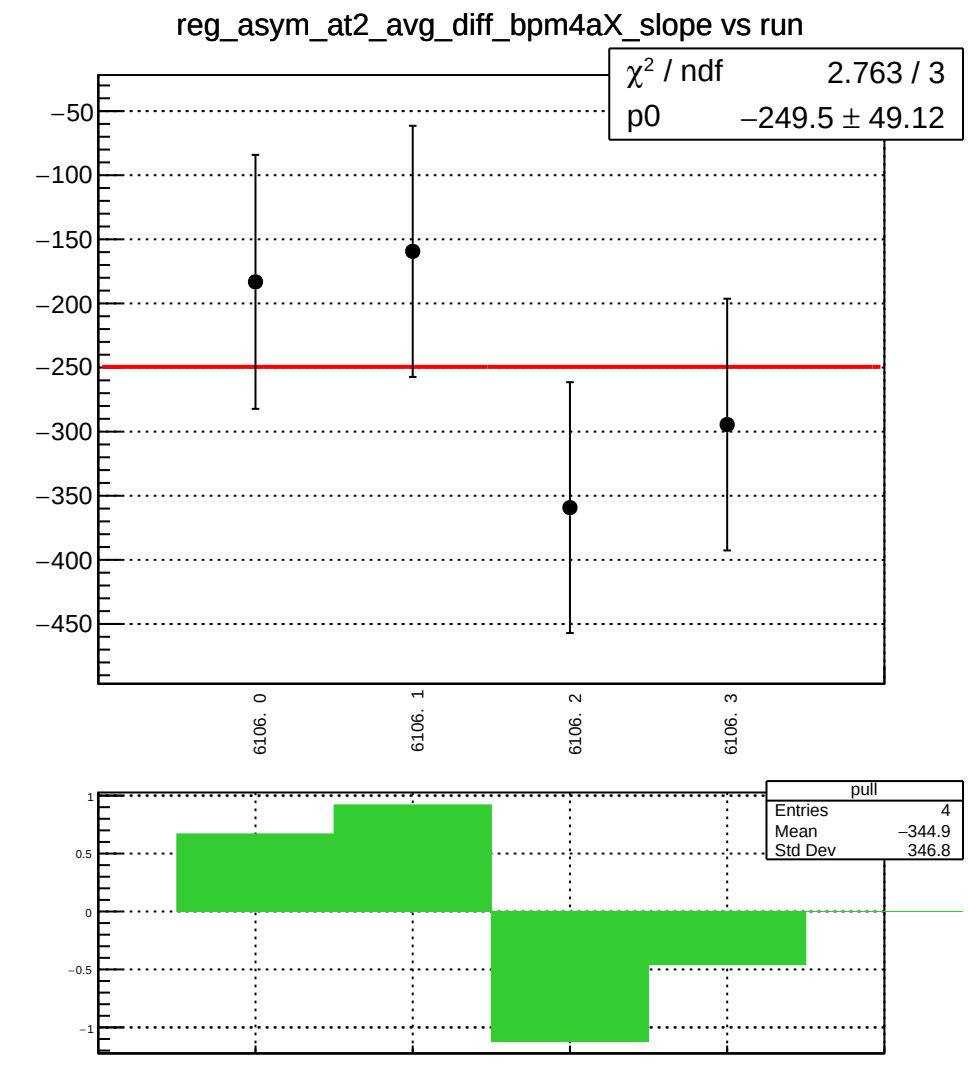

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9862 / 3
p0 5.667 ± 58.93
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −54.05
Std Dev 55.18
0.8
0.6
0.4
0.2
0
−0.2
−0.4

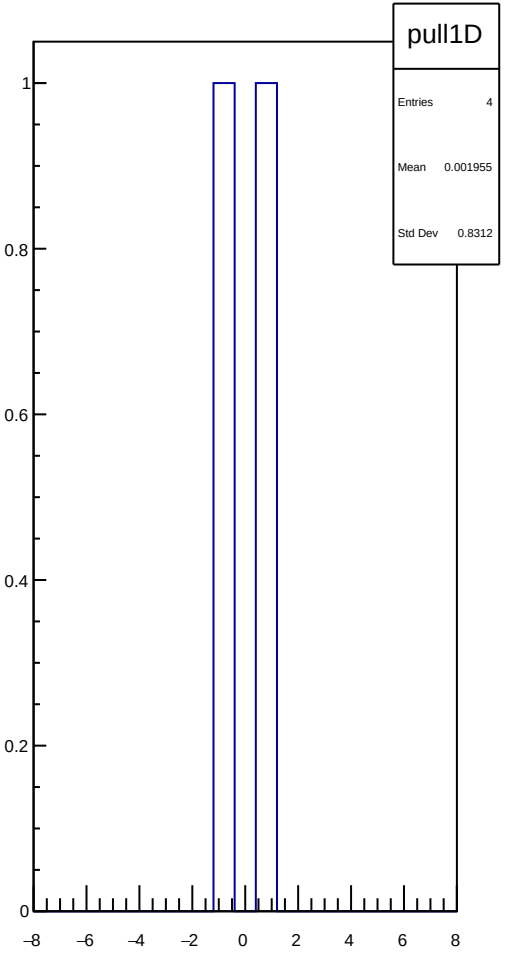

pull1D
Entries 4
Mean 0.004586
Std Dev 0.4965
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

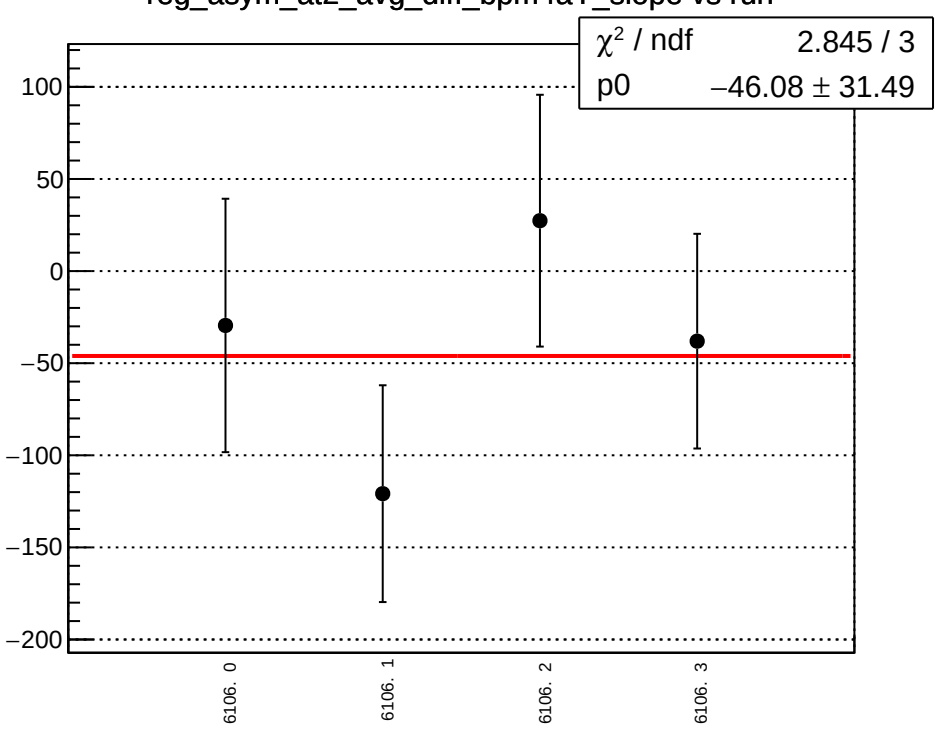

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.024 / 3
p0 −23.37 ± 34.67
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 26.6
Std Dev 24.21
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.0159
Std Dev 1.121
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

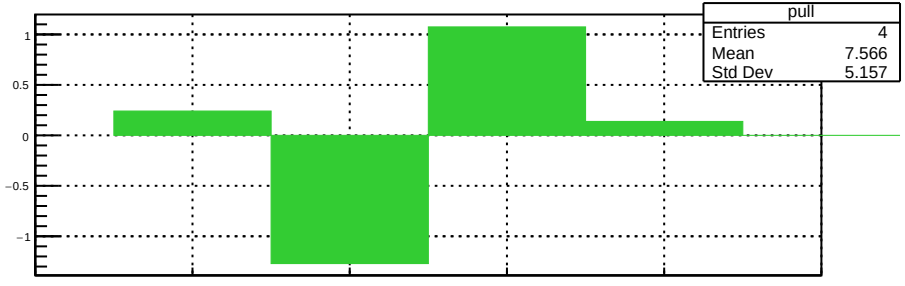

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 2.217 / 3
p0 9.792 ± 2.458
20
18
16
14
12
10
8
6
4
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −8.034
Std Dev 8.327
1
0.5
0
−0.5
−1

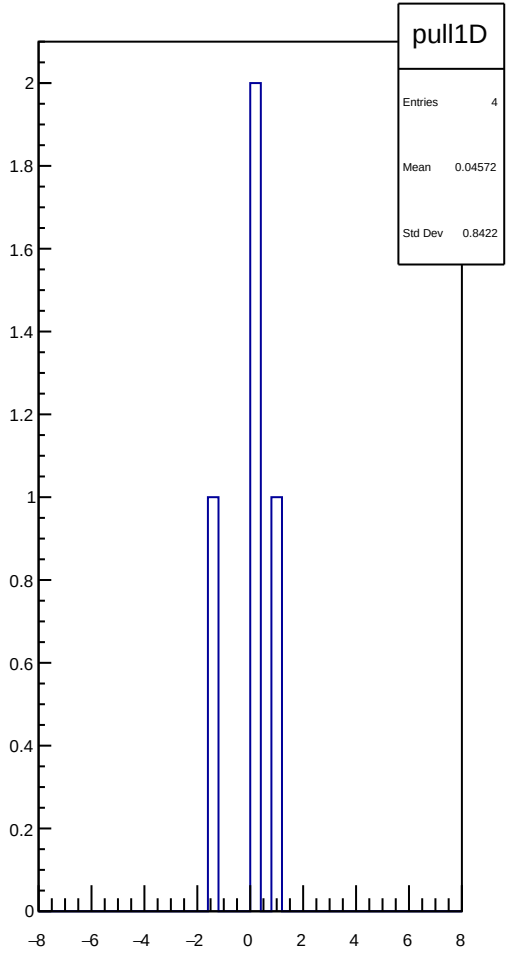

pull1D
Entries 4
Mean −0.02349
Std Dev 0.7442
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

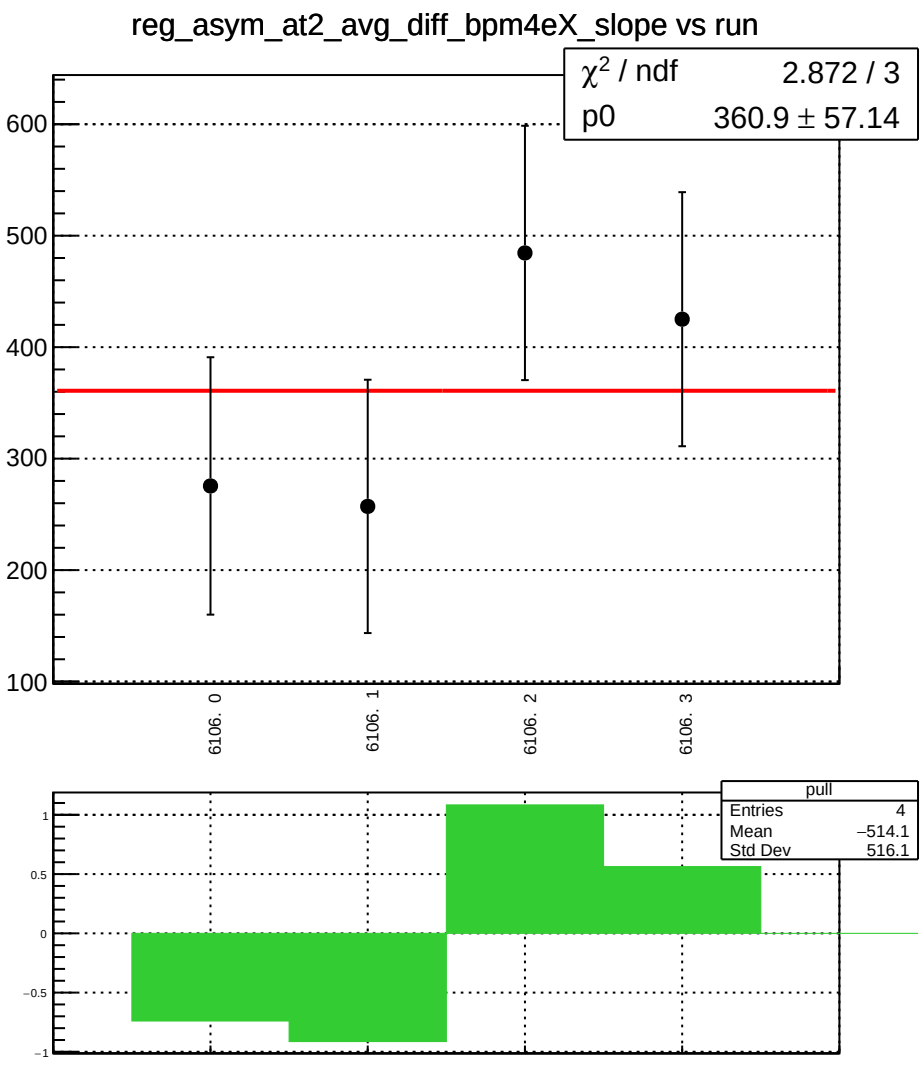

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.763 / 3
p0 −249.5 ± 49.12
−50
−100
−150
−200
−250
−300
−350
−400
−450
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −344.9
Std Dev 346.8
1
0.5
0
−0.5
−1

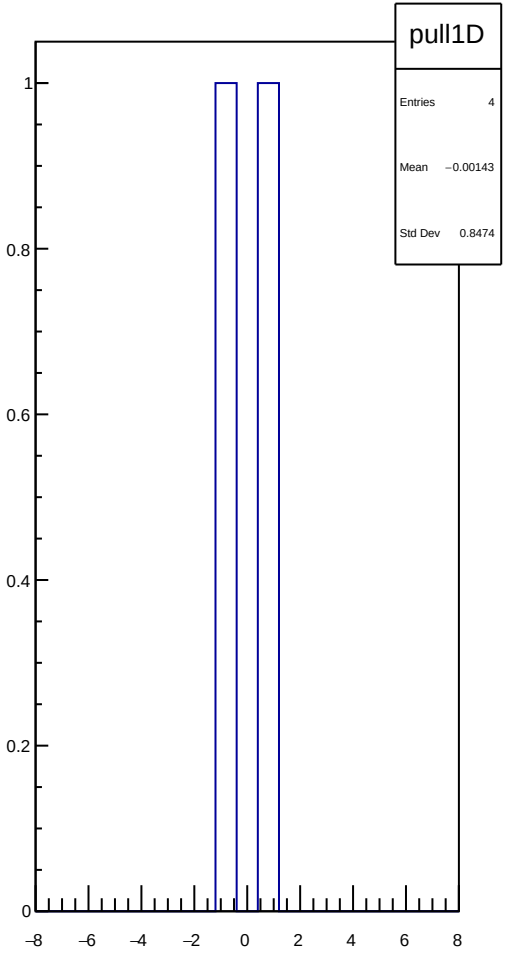

pull1D
Entries 4
Mean 0.001955
Std Dev 0.8312
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

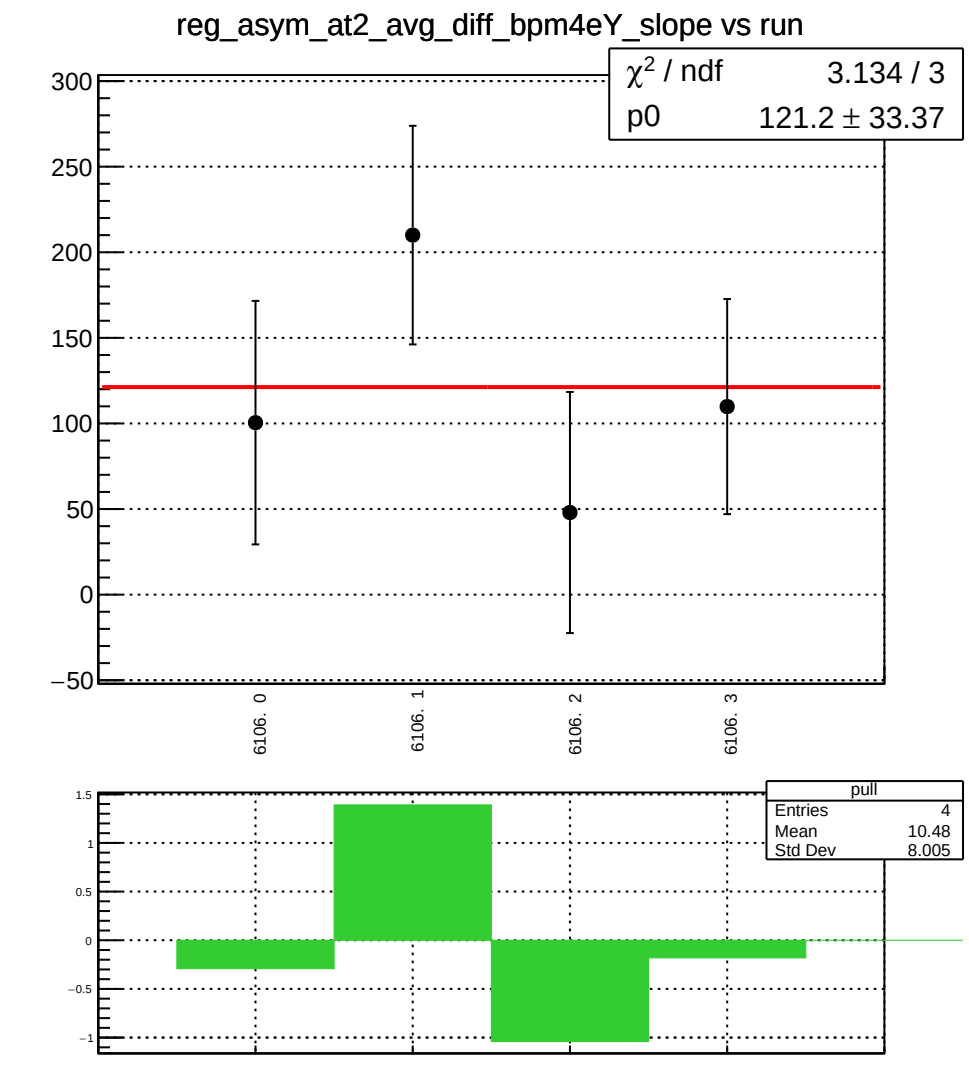

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.845 / 3
p0 −46.08 ± 31.49
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3

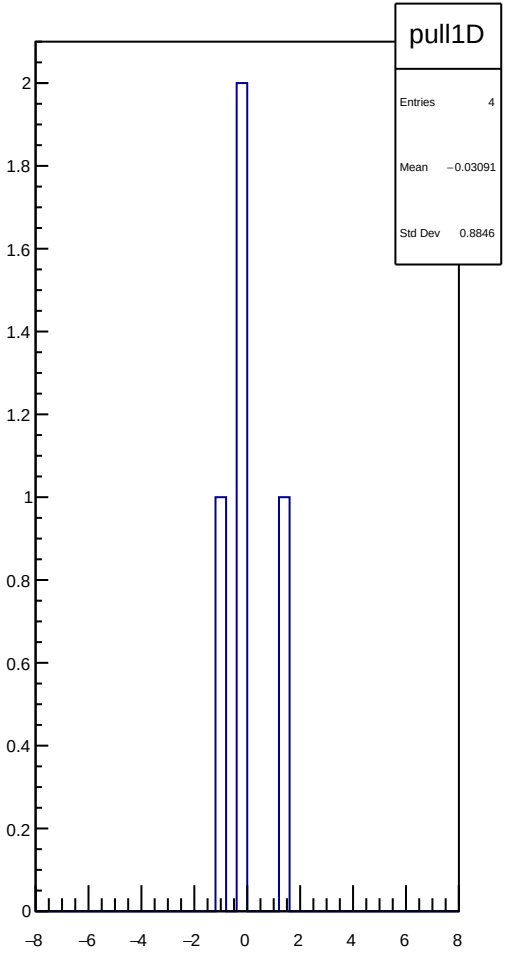

pull
Entries 4
Mean 7.566
Std Dev 5.157
1
0.5
0
−0.5
−1

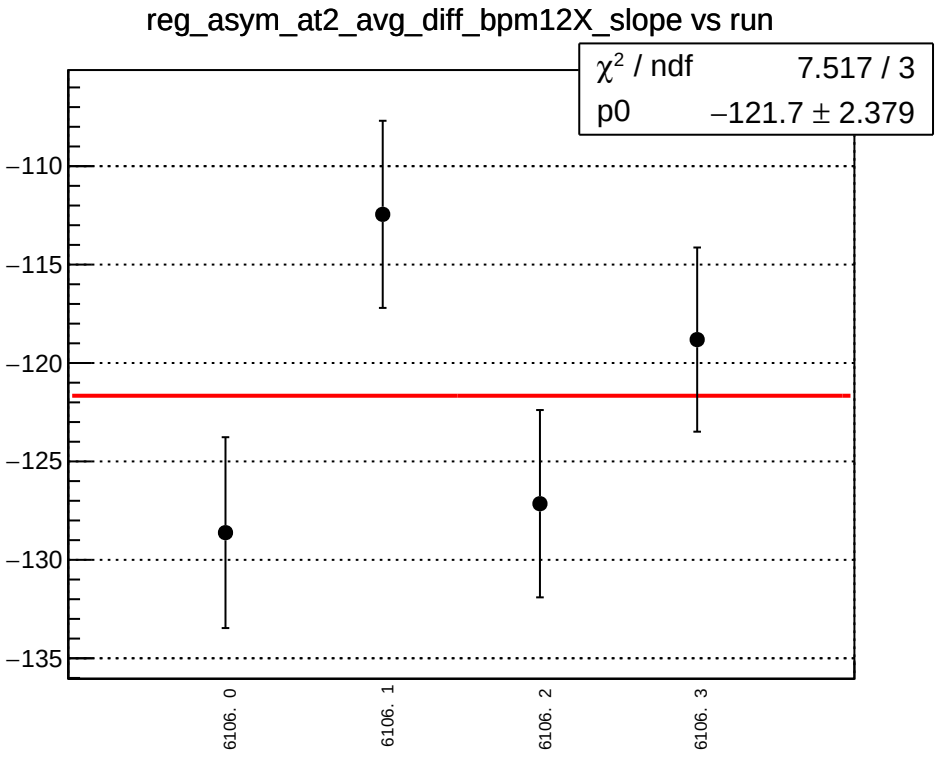

pull1D
Entries 4
Mean 0.04572
Std Dev 0.8422
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

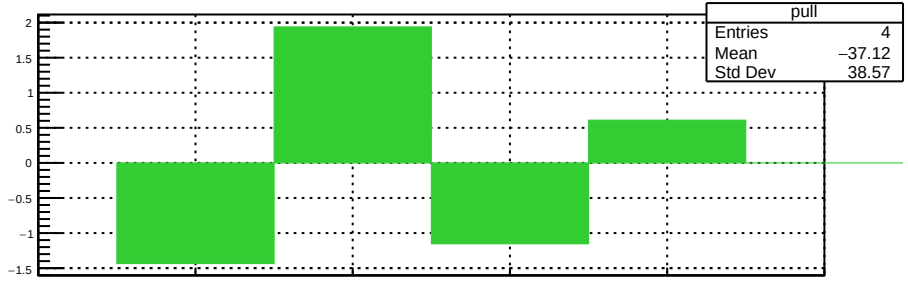

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.872 / 3
p0 360.9 ± 57.14
600
500
400
300
200
100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −514.1
Std Dev 516.1
1
0.5
0
−0.5
−1

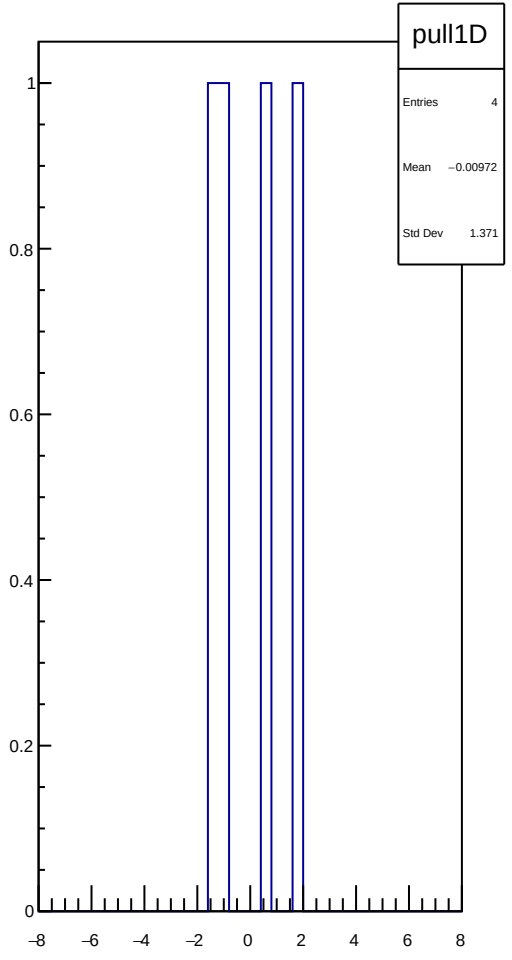

pull1D
Entries 4
Mean −0.00143
Std Dev 0.8474
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

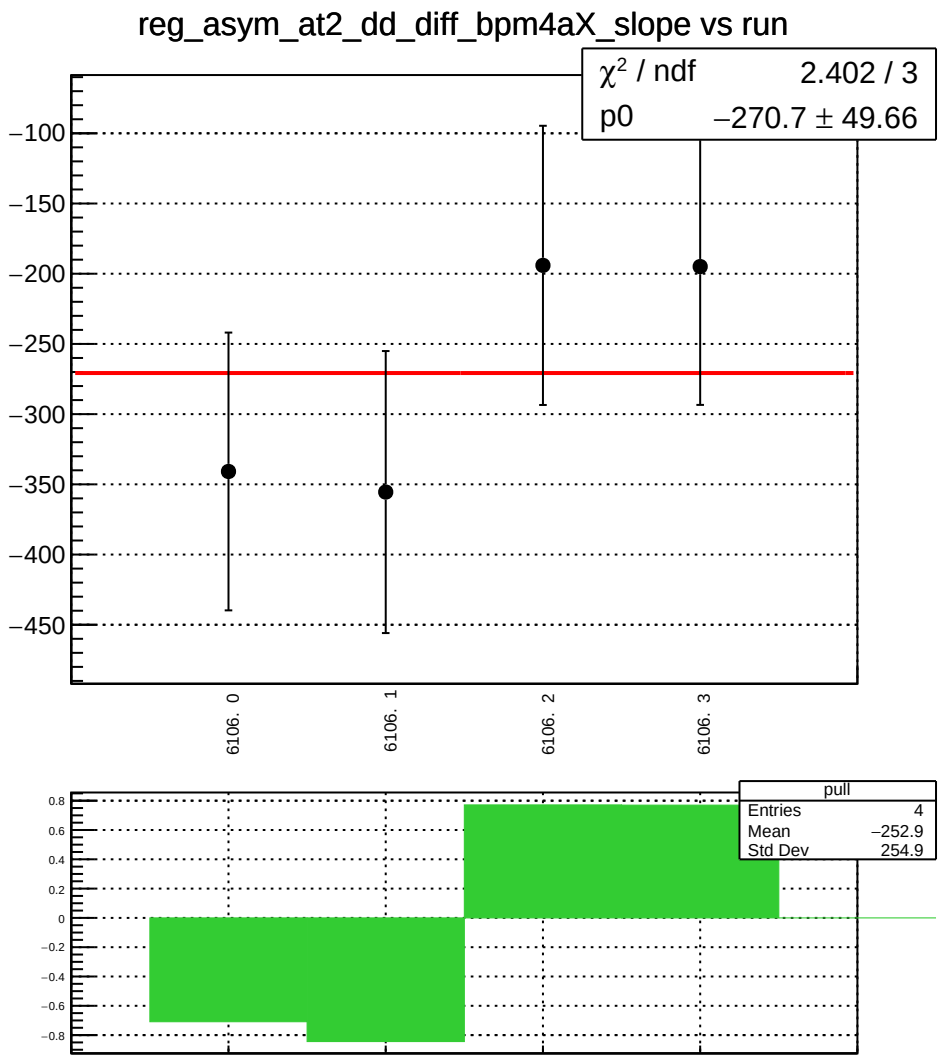

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.134 / 3
p0 121.2 ± 33.37
300
250
200
150
100
50
0
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 10.48
Std Dev 8.005
1.5
1
0.5
0
−0.5
−1

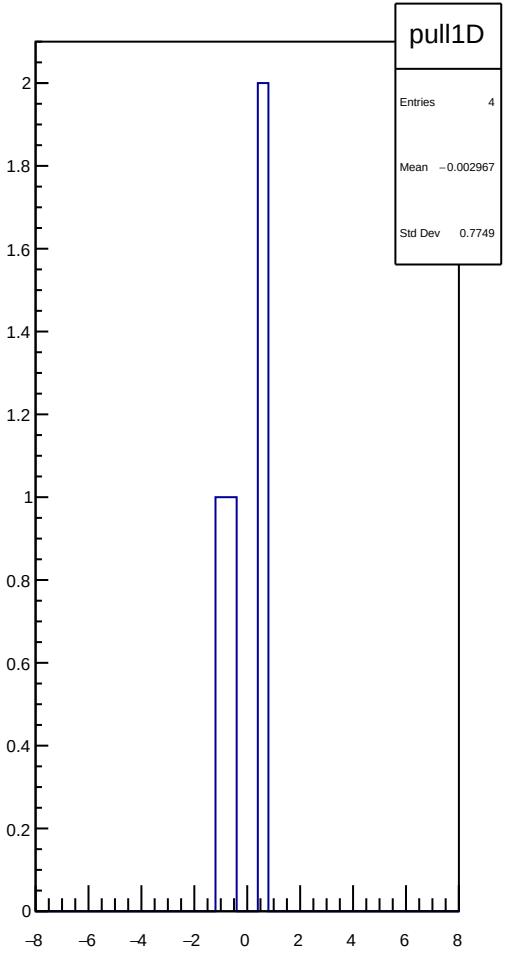

pull1D
Entries 4
Mean −0.03091
Std Dev 0.8846
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

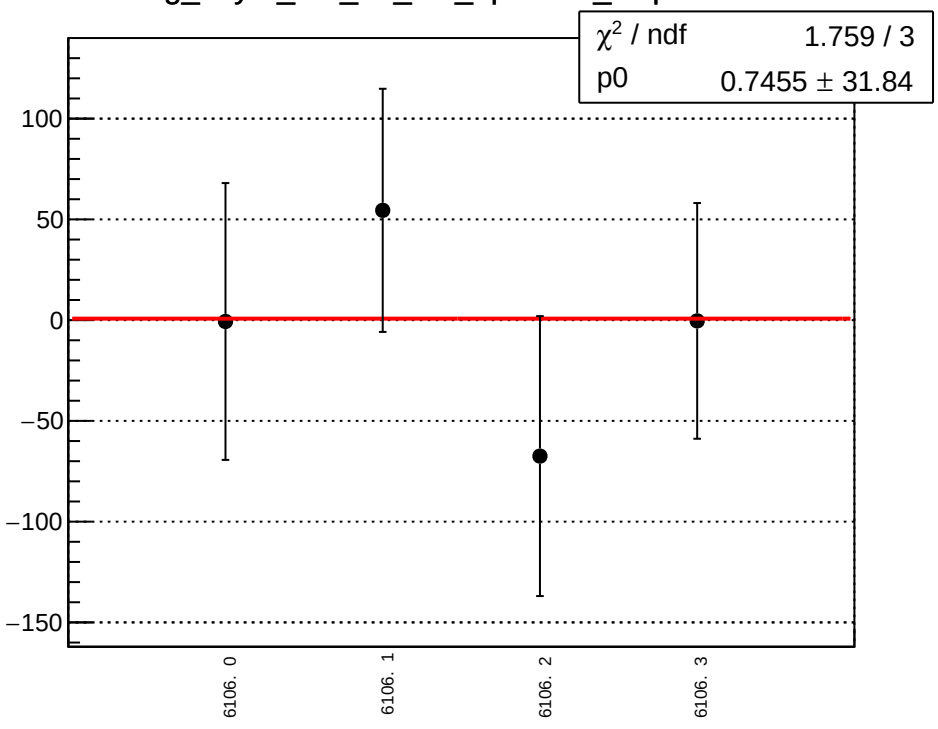

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 7.517 / 3
p0 −121.7 ± 2.379
−110
−115
−120
−125
−130
−135
6106. 0
6106. 1
6106. 2
6106. 3

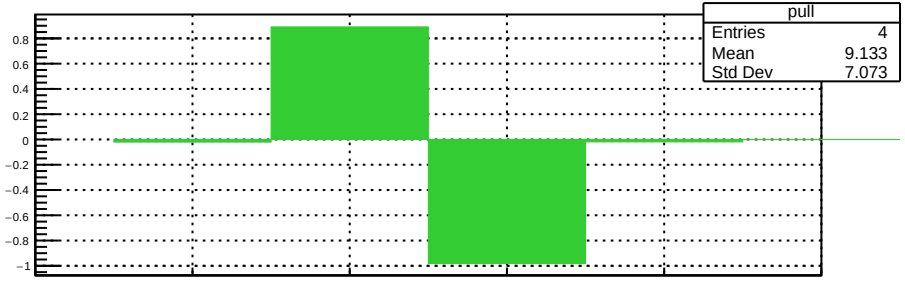

pull
Entries 4
Mean −37.12
Std Dev 38.57
2
1.5
1
0.5
0
−0.5
−1
−1.5

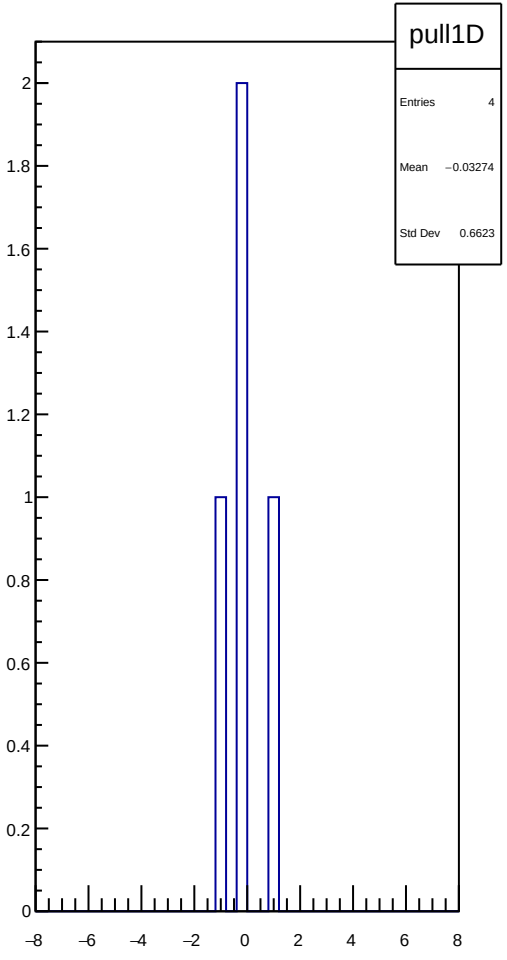

pull1D
Entries 4
Mean −0.00972
Std Dev 1.371
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

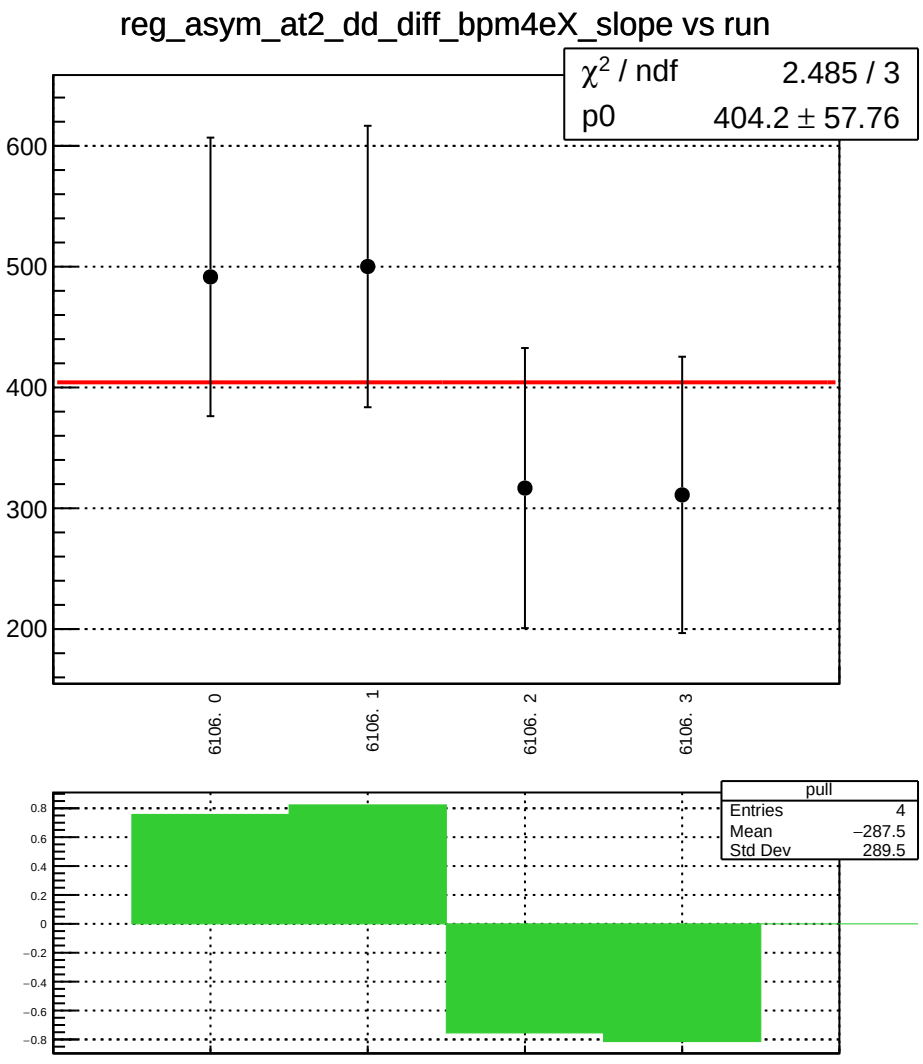

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.402 / 3
p0 −270.7 ± 49.66
−100
−150
−200
−250
−300
−350
−400
−450
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −252.9
Std Dev 254.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

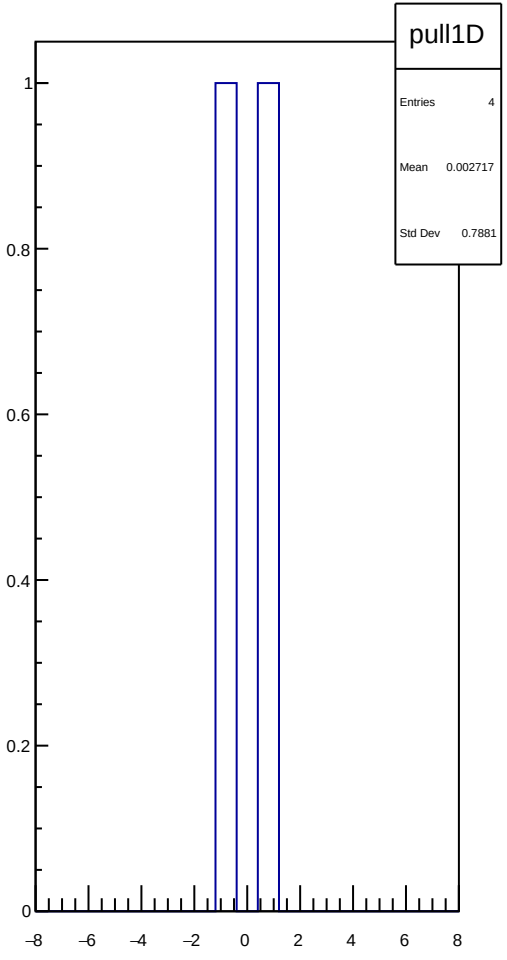

pull1D
Entries 4
Mean −0.002967
Std Dev 0.7749
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

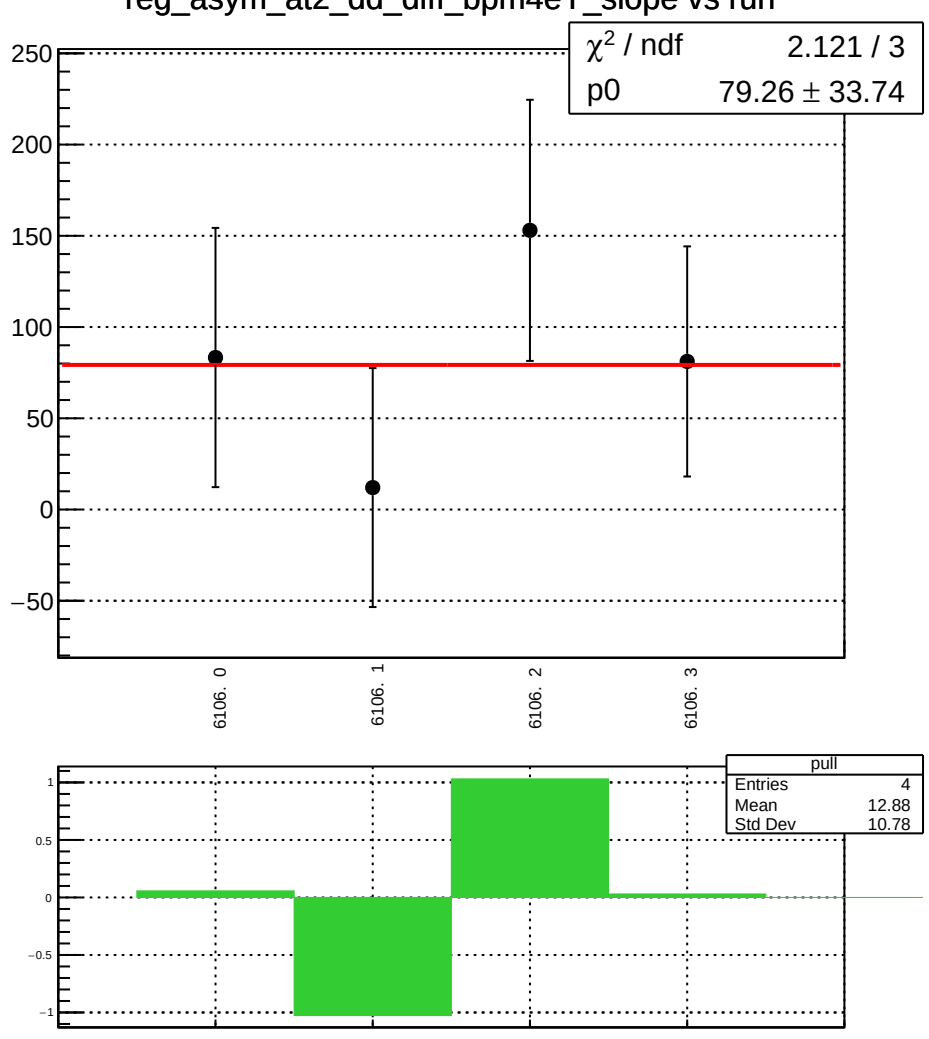

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.759 / 3
p0 0.7455 ± 31.84
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3

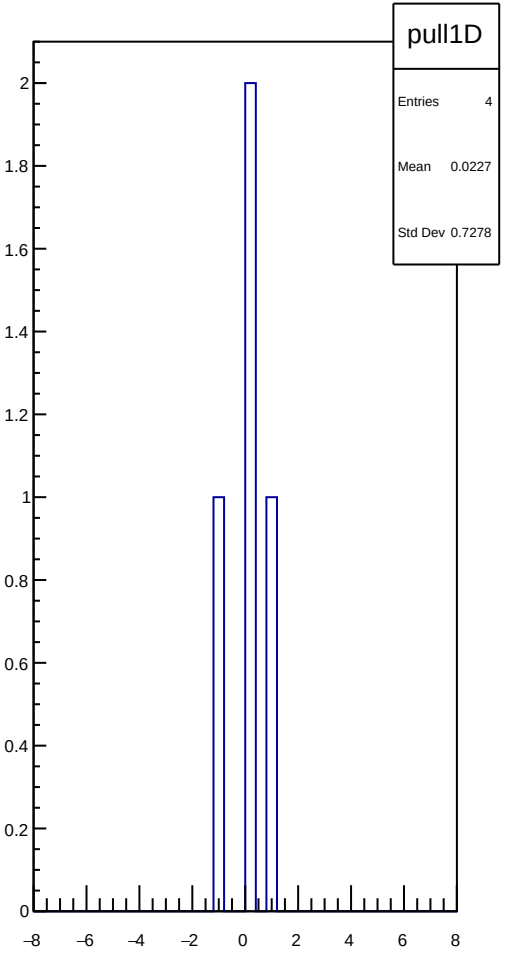

pull
Entries 4
Mean 9.133
Std Dev 7.073
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

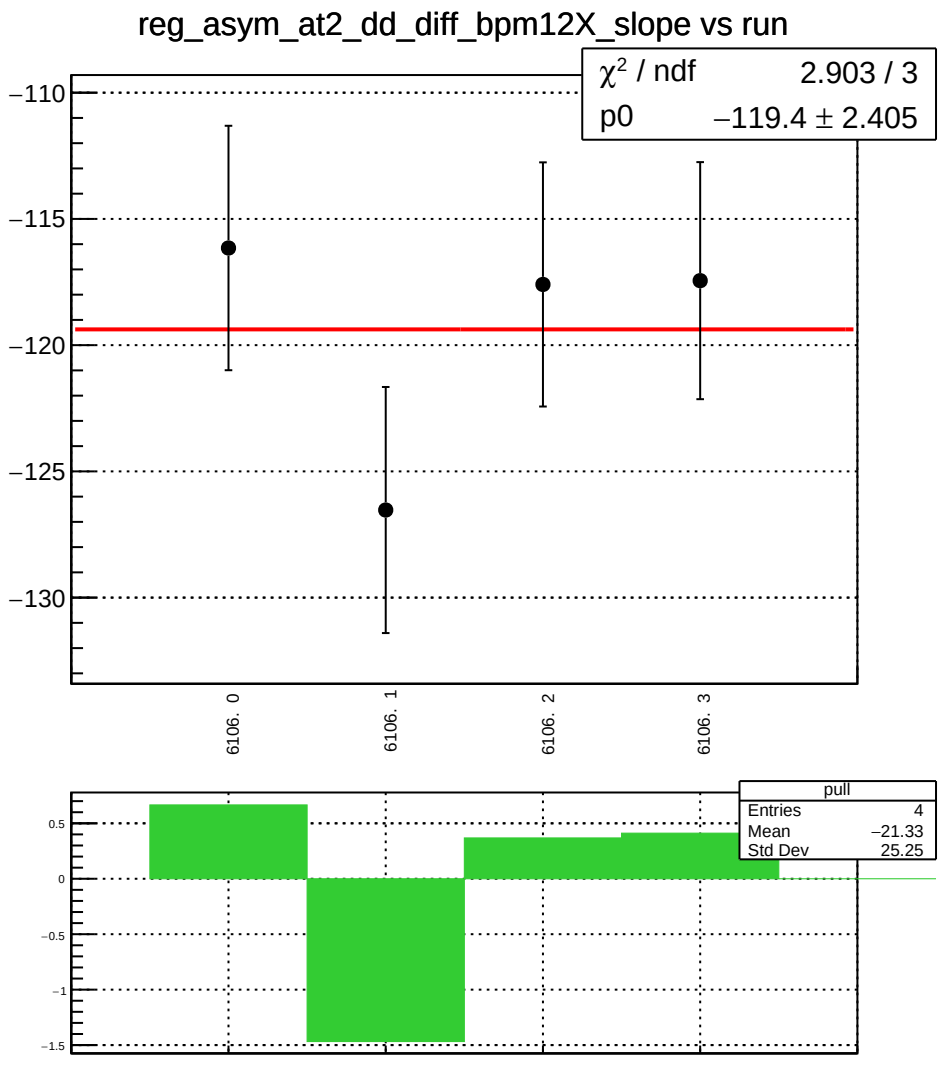

pull1D
Entries 4
Mean −0.03274
Std Dev 0.6623
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

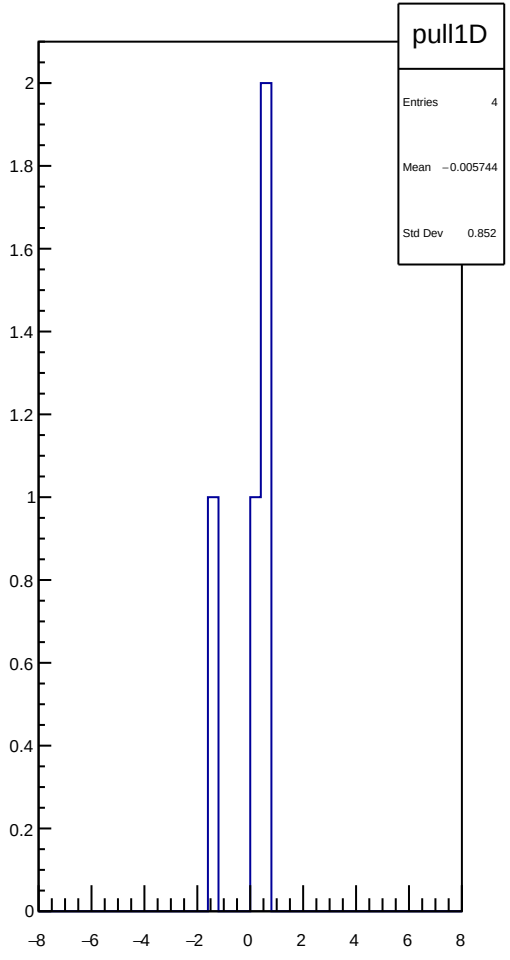

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.485 / 3
p0 404.2 ± 57.76
600
500
400
300
200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −287.5
Std Dev 289.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

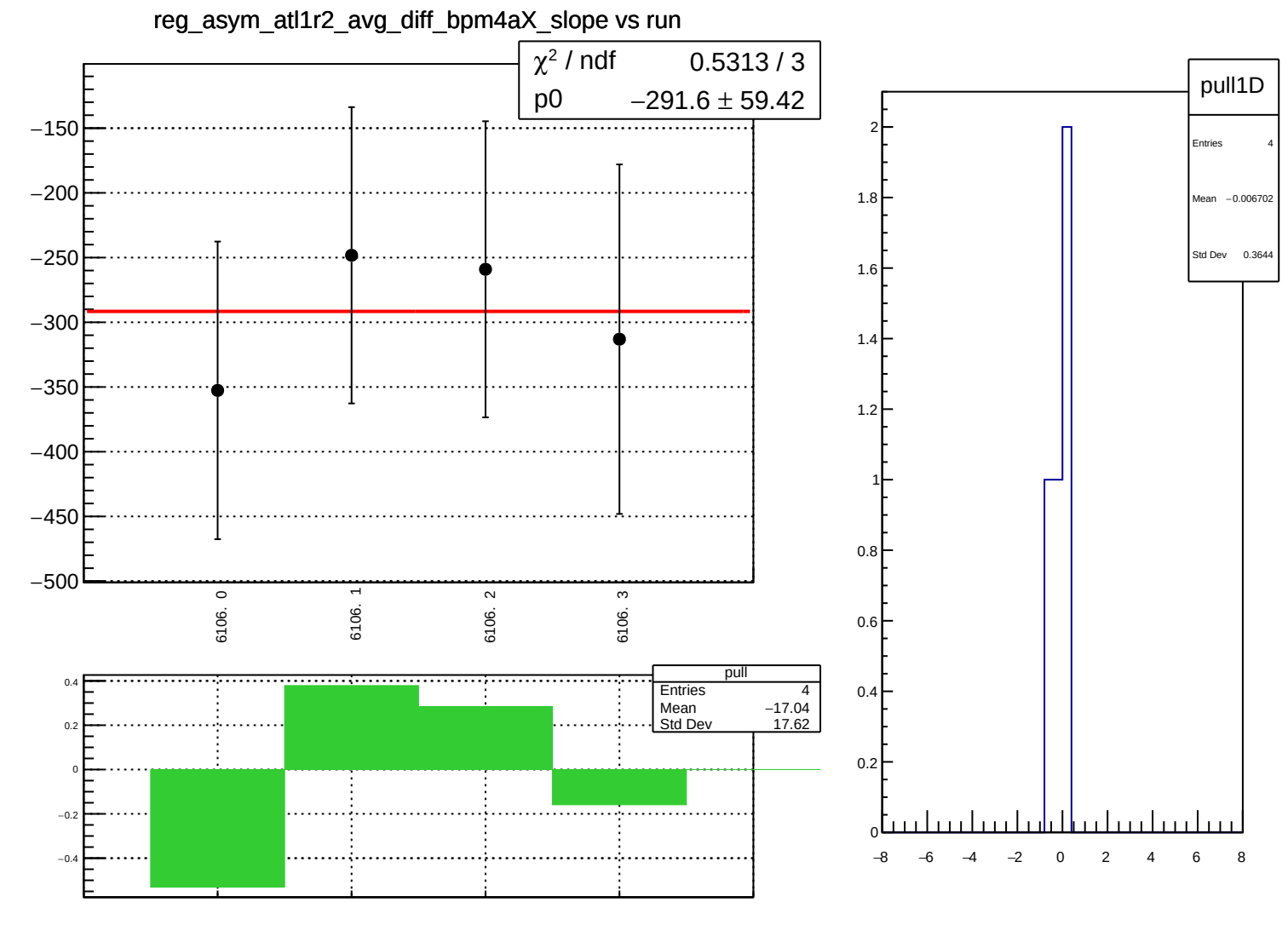

pull1D
Entries 4
Mean 0.002717
Std Dev 0.7881
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

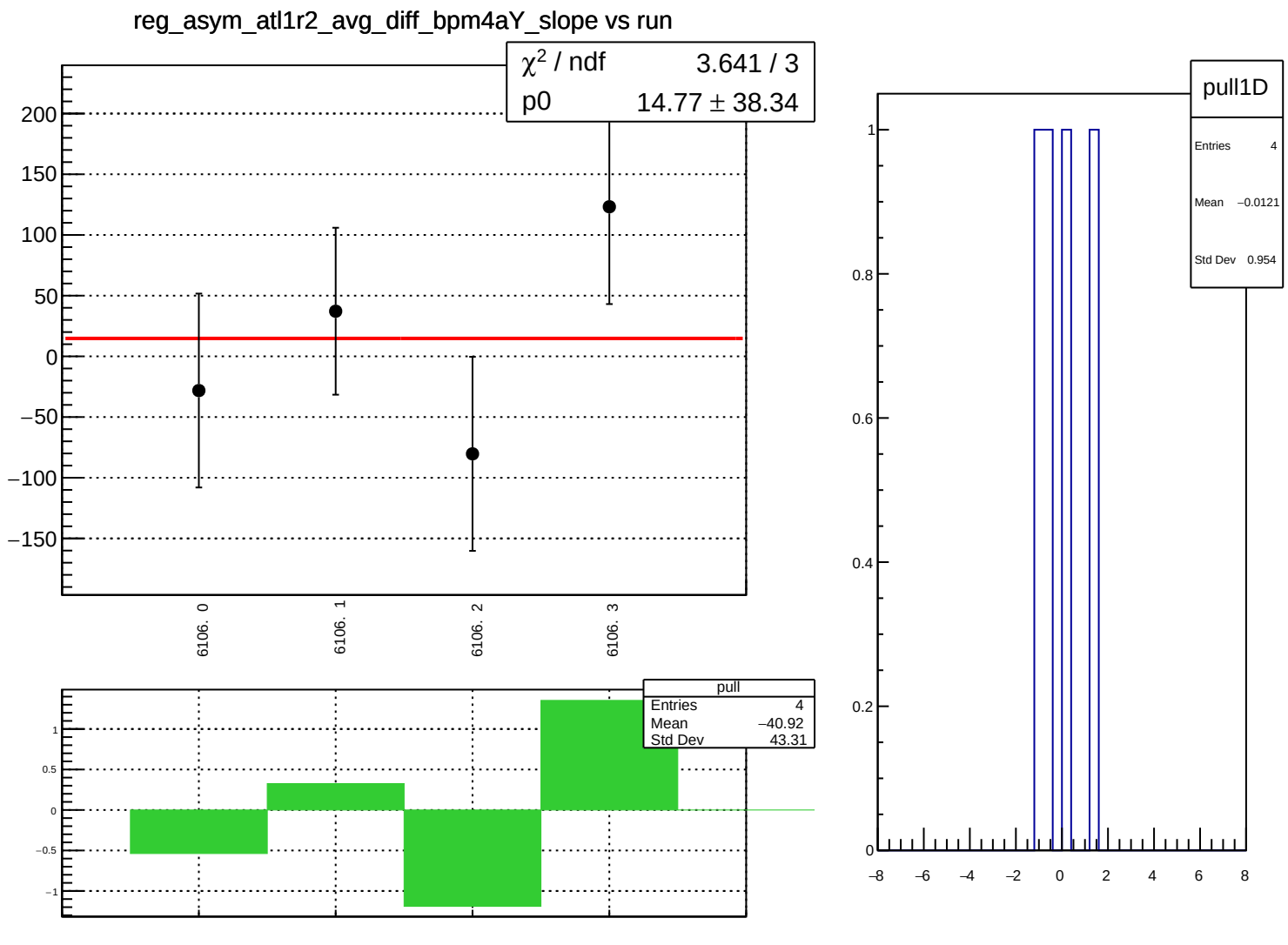

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.121 / 3
p0 79.26 ± 33.74
250
200
150
100
50
0
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 12.88
Std Dev 10.78
1
0.5
0
−0.5
−1

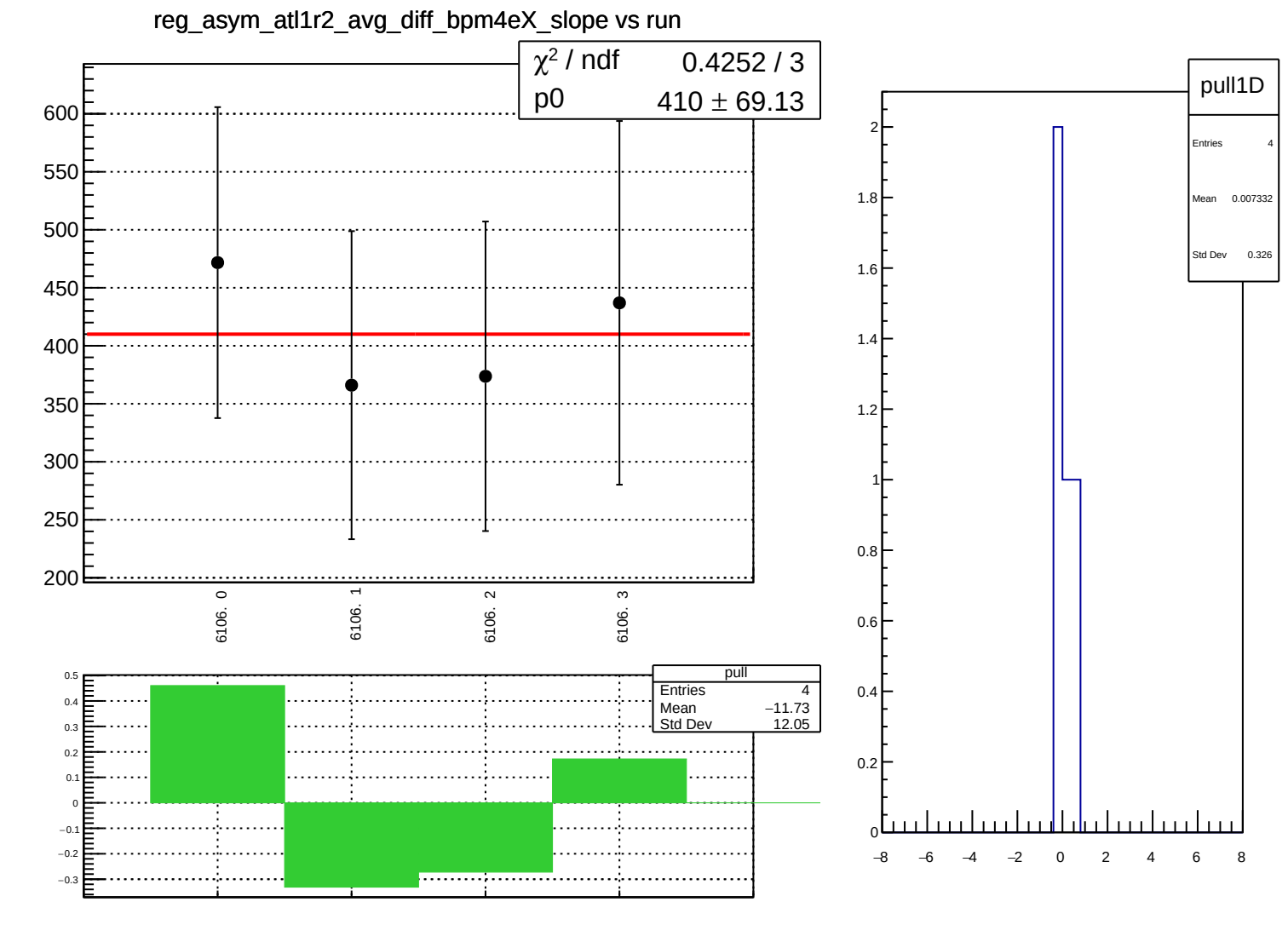

pull1D
Entries 4
Mean 0.0227
Std Dev 0.7278
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

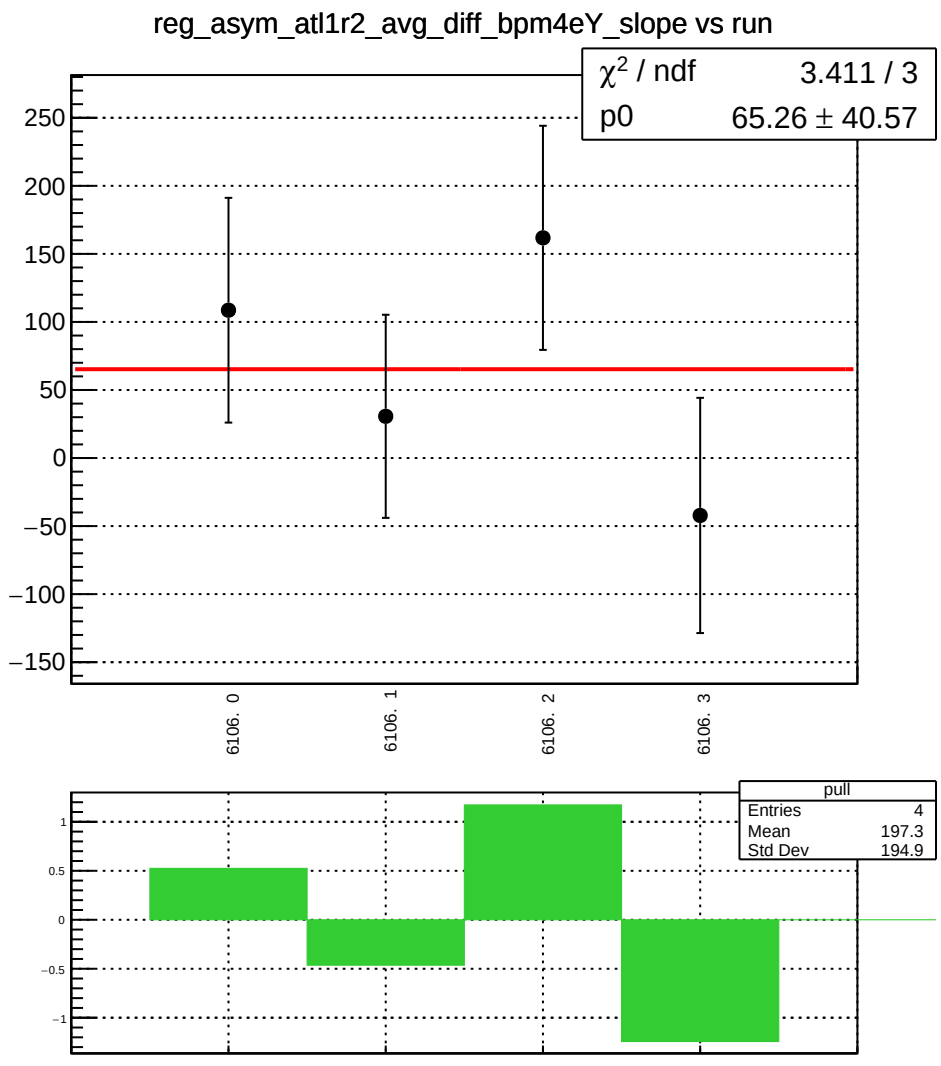

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.903 / 3
p0 −119.4 ± 2.405
−110
−115
−120
−125
−130
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −21.33
Std Dev 25.25
0.5
0
−0.5
−1
−1.5

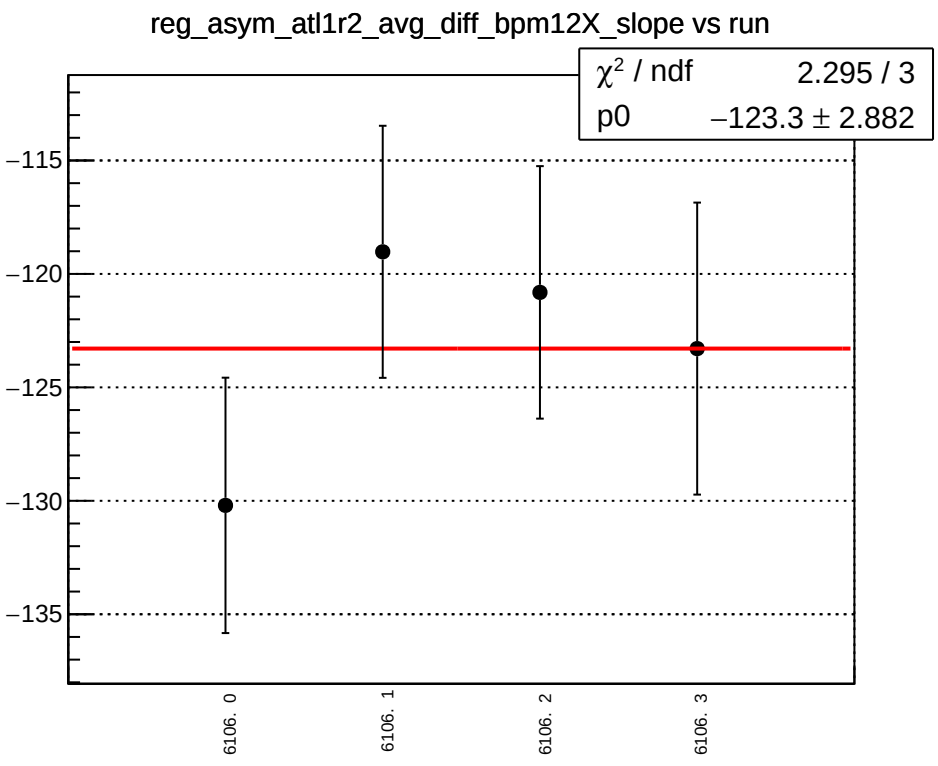

pull1D
Entries 4
Mean −0.005744
Std Dev 0.852
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

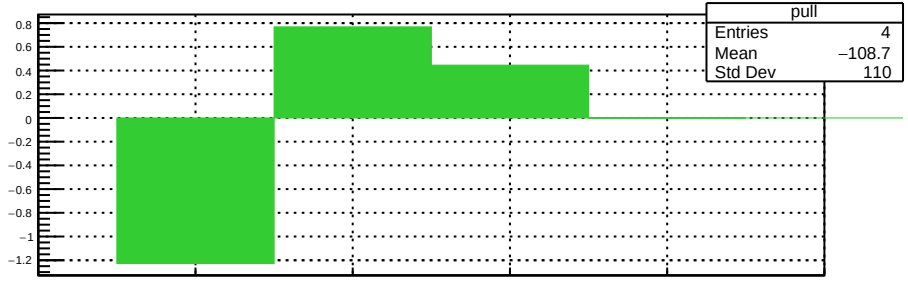

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.5313 / 3
p0 −291.6 ± 59.42
−150
−200
−250
−300
−350
−400
−450
−500
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.04
Std Dev 17.62
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.006702
Std Dev 0.3644
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

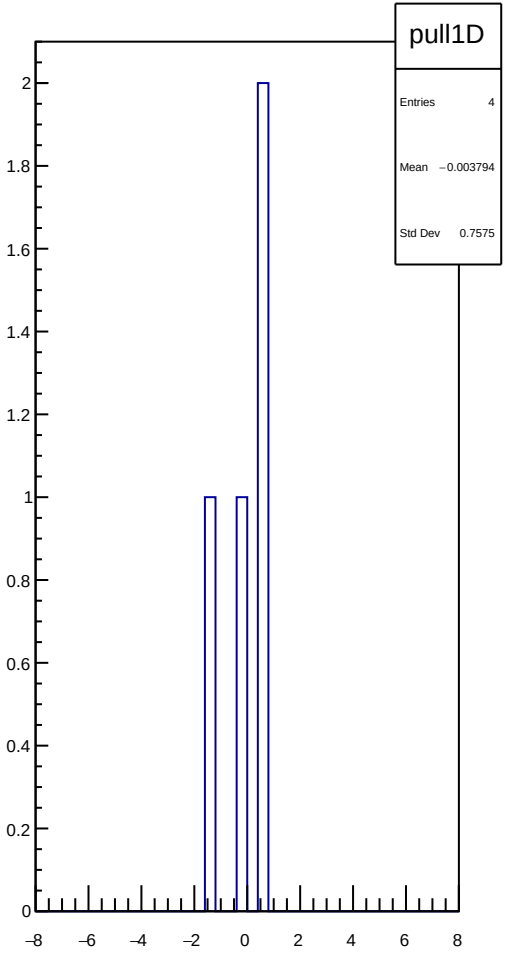

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.641 / 3
p0 14.77 ± 38.34
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −40.92
Std Dev 43.31
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.0121
Std Dev 0.954
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

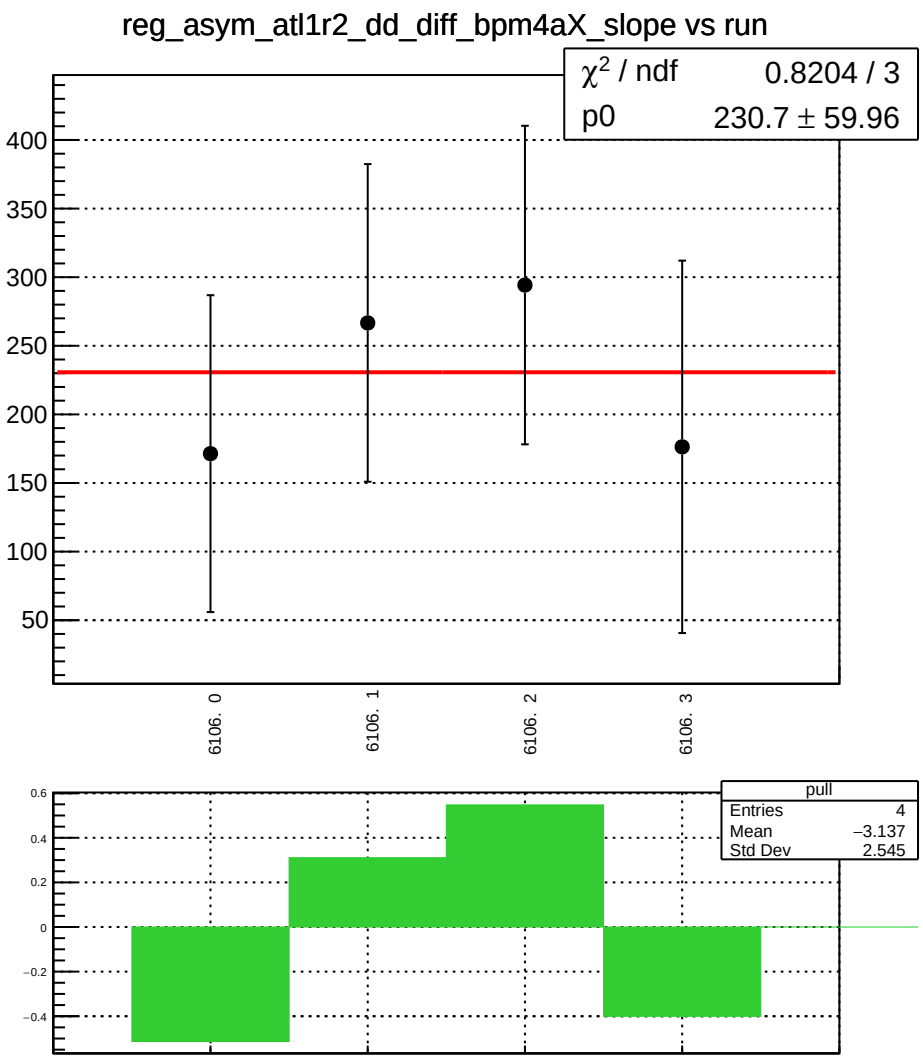

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4252 / 3
p0 410 ± 69.13
600
550
500
450
400
350
300
250
200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −11.73
Std Dev 12.05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.007332
Std Dev 0.326
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

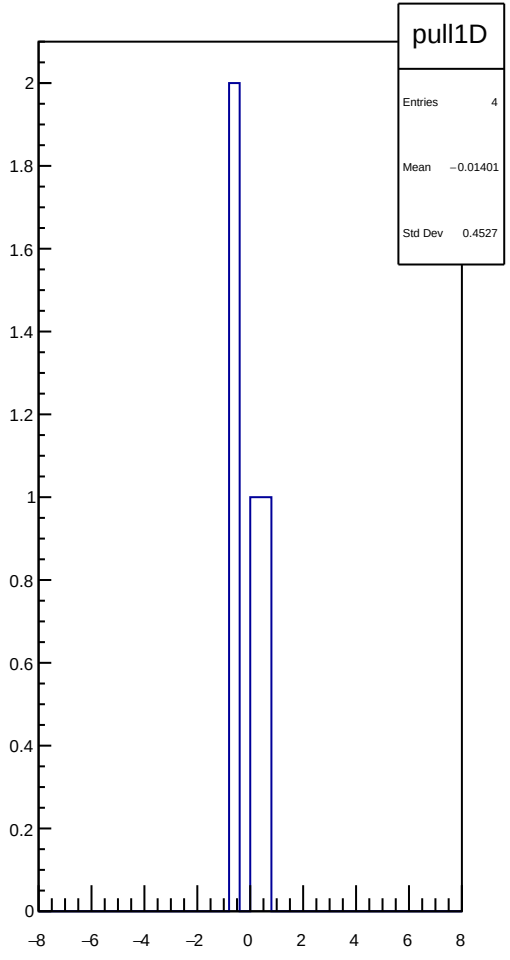

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.411 / 3
p0 65.26 ± 40.57
250
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 197.3
Std Dev 194.9
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.002348
Std Dev 0.9235
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

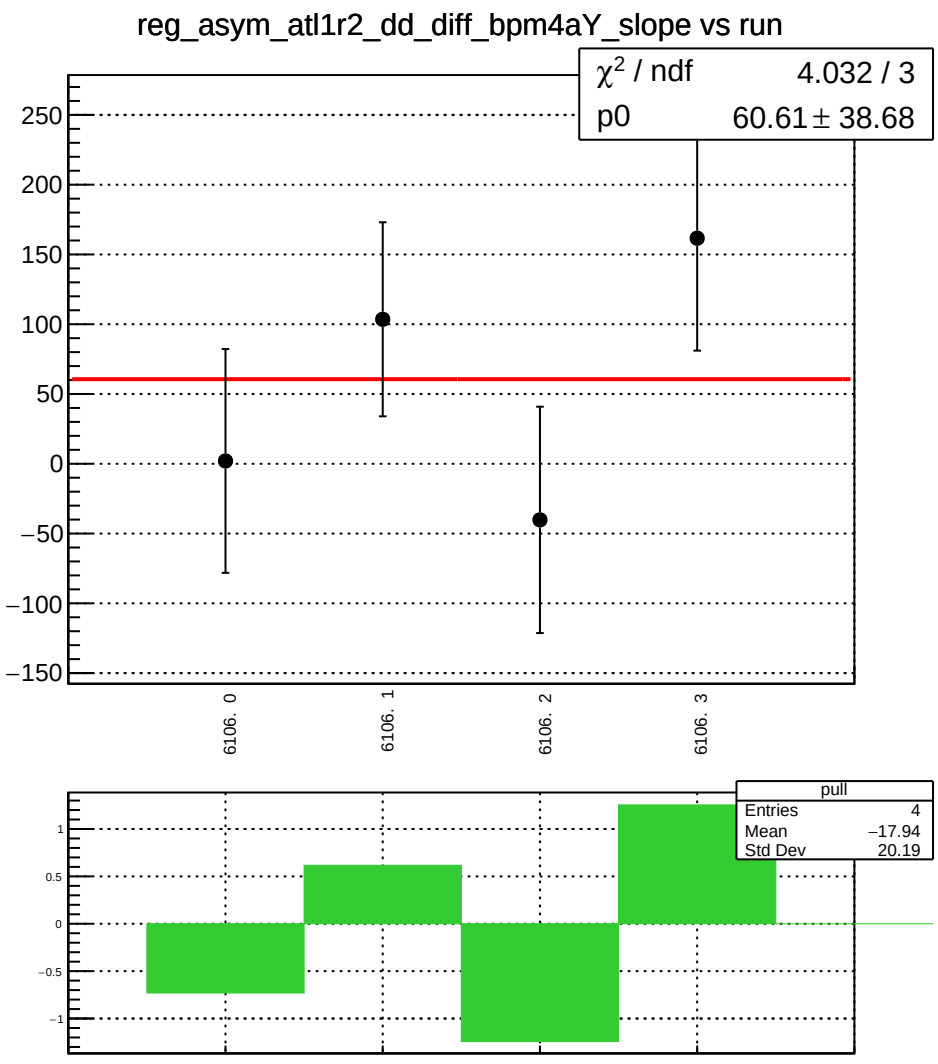

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 2.295 / 3
p0 −123.3 ± 2.882
−115
−120
−125
−130
−135
6106. 0
6106. 1
6106. 2
6106. 3

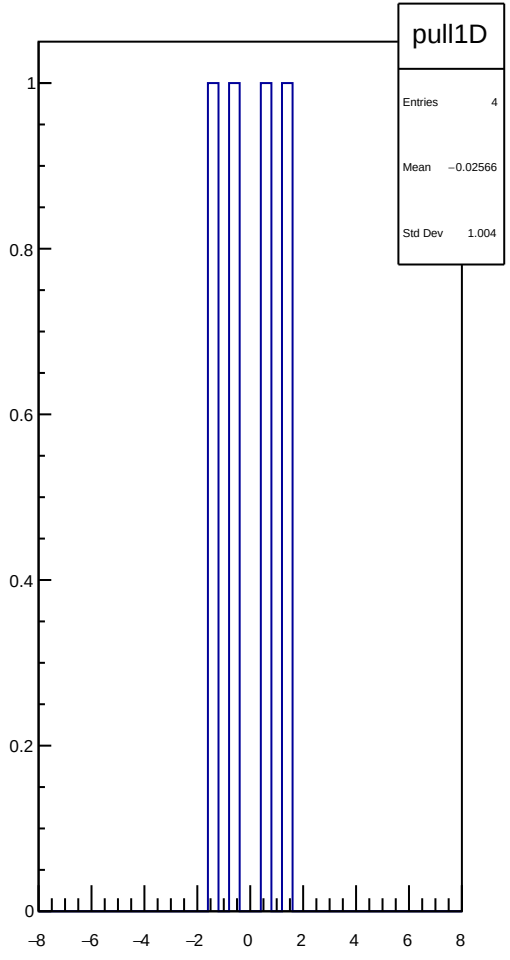

pull
Entries 4
Mean −108.7
Std Dev 110
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

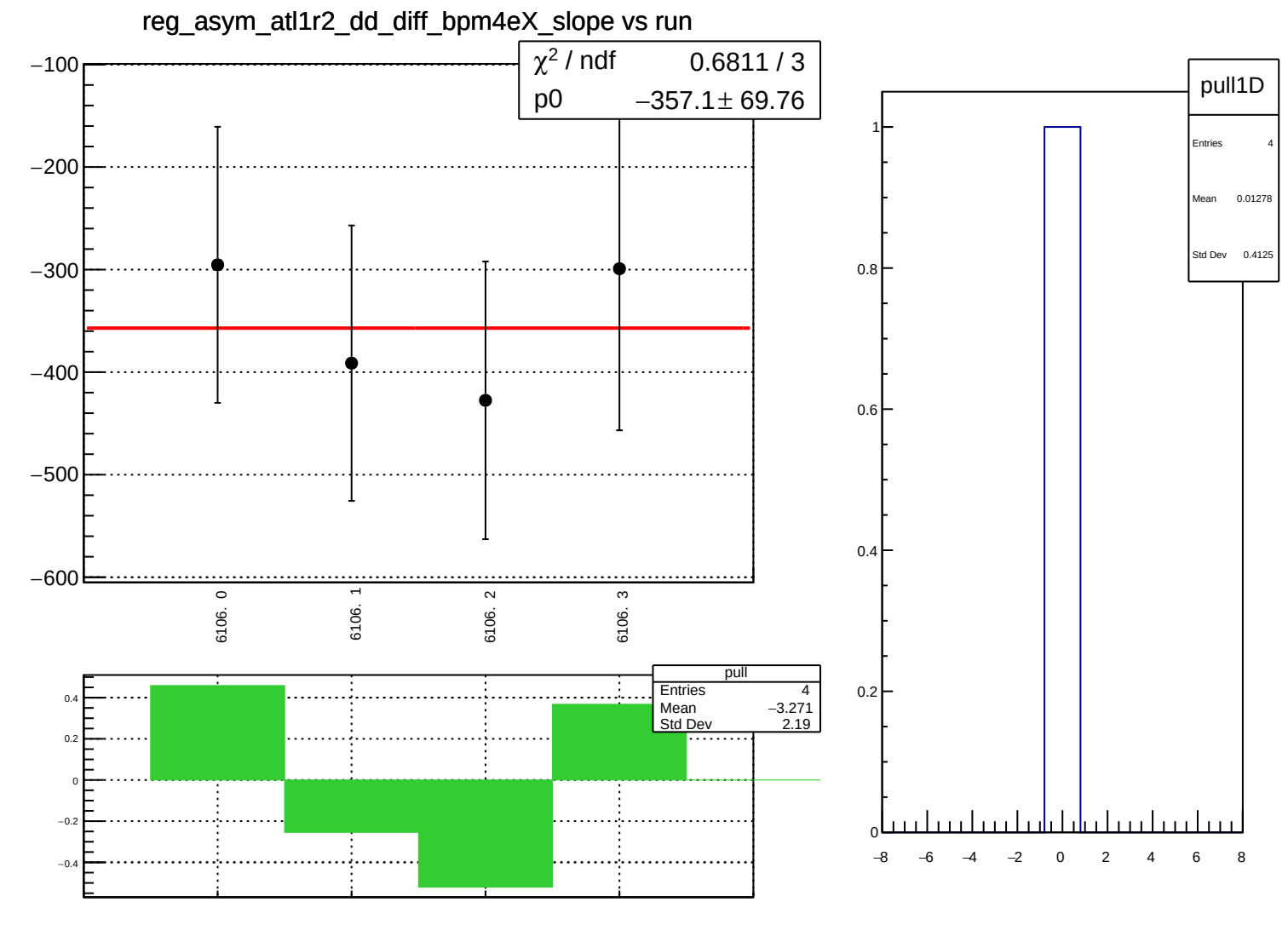

pull1D
Entries 4
Mean −0.003794
Std Dev 0.7575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

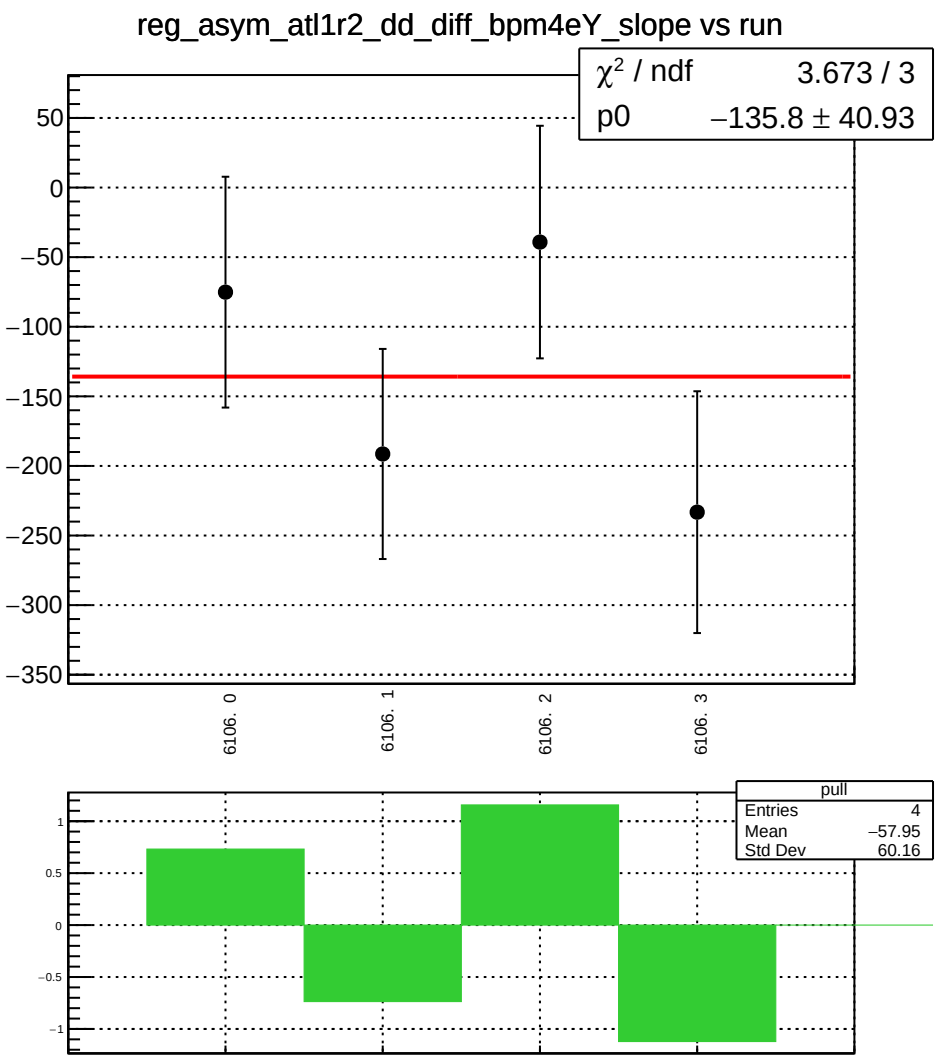

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.8204 / 3
p0 230.7 ± 59.96
400
350
300
250
200
150
100
50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.137
Std Dev 2.545
0.6
0.4
0.2
0
−0.2
−0.4

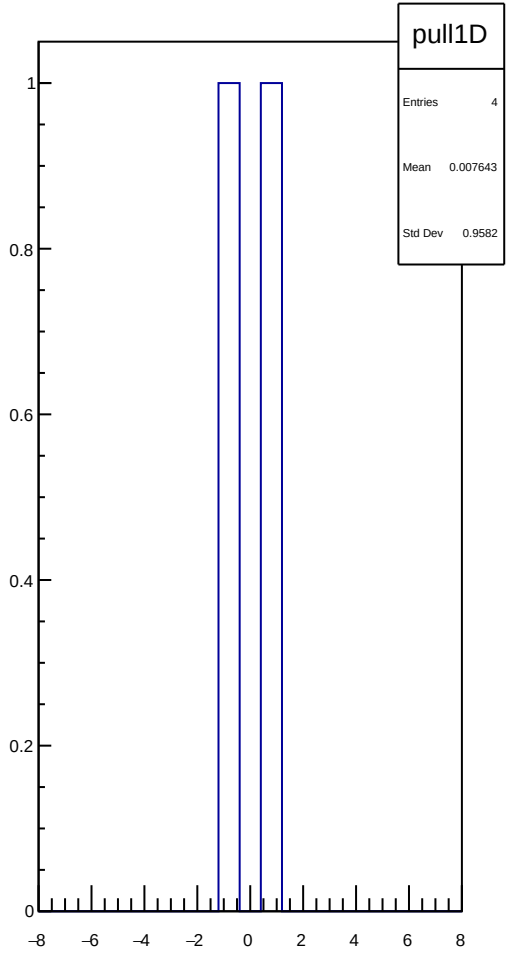

pull1D
Entries 4
Mean −0.01401
Std Dev 0.4527
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

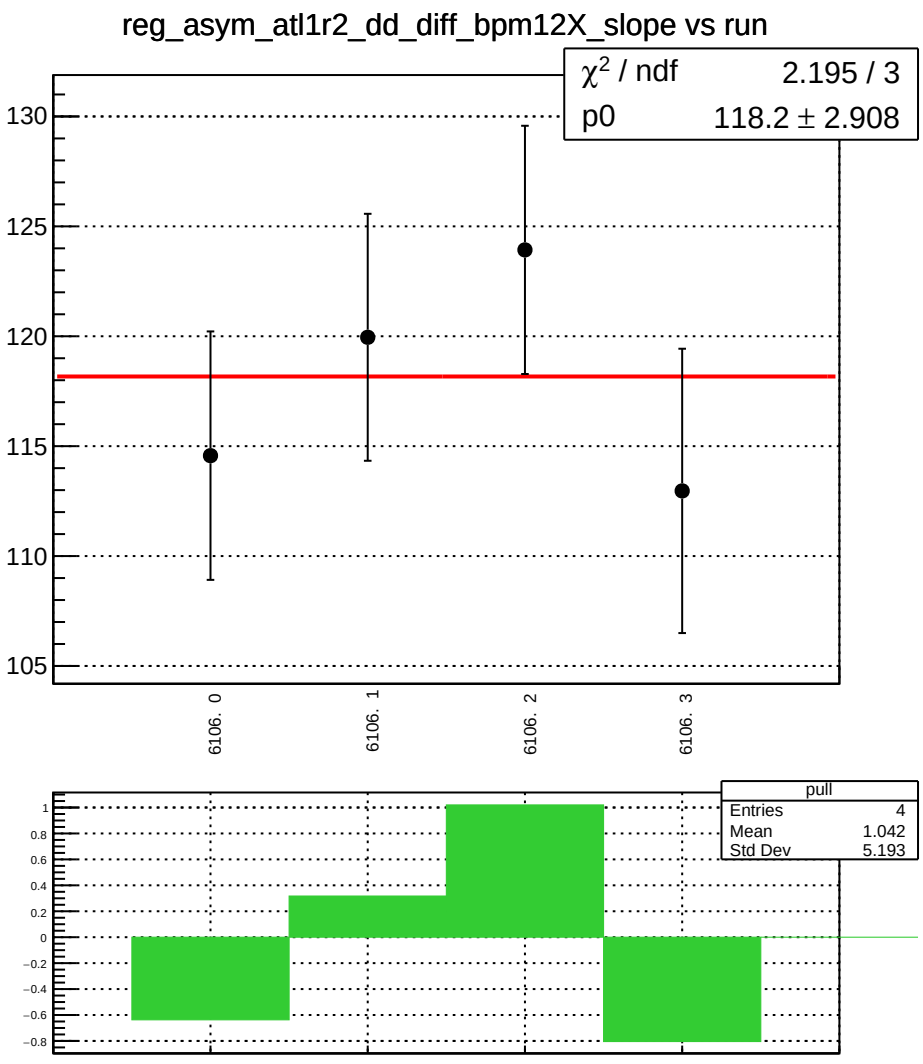

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.032 / 3
p0 60.61 ± 38.68
250
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −17.94
Std Dev 20.19
1
0.5
0
−0.5
−1

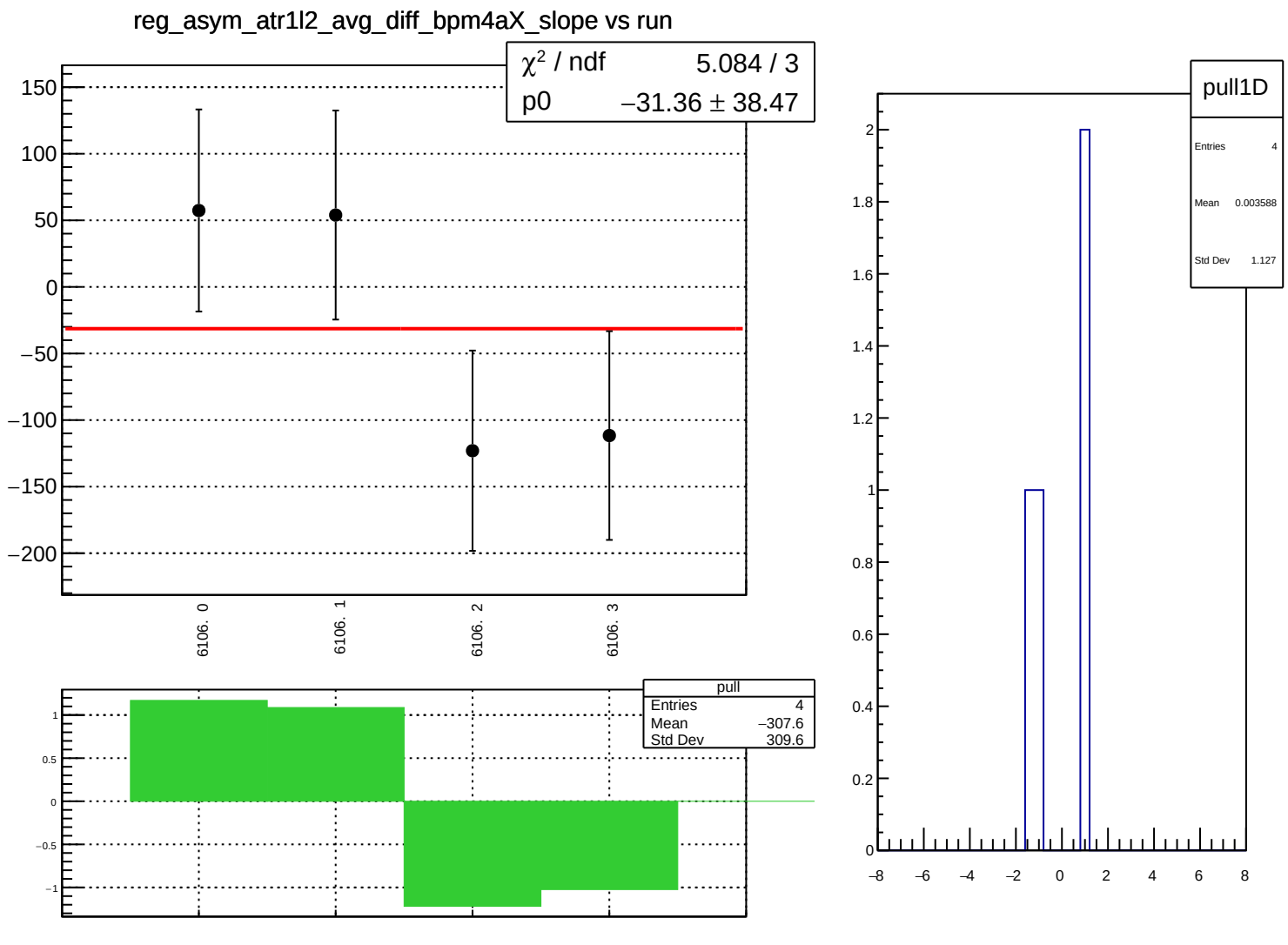

pull1D
Entries 4
Mean −0.02566
Std Dev 1.004
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

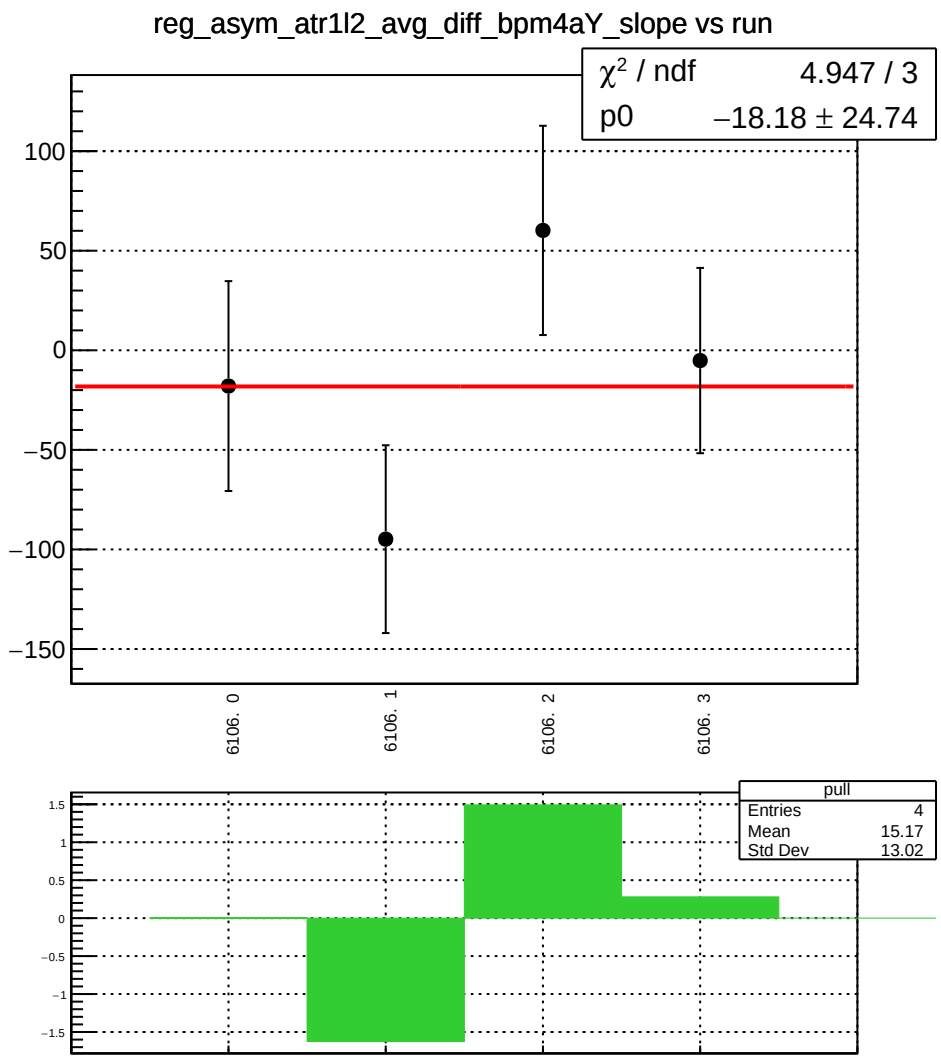

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6811 / 3
p0 −357.1± 69.76
−100
−200
−300
−400
−500
−600
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −3.271
Std Dev 2.19
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.01278
Std Dev 0.4125
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

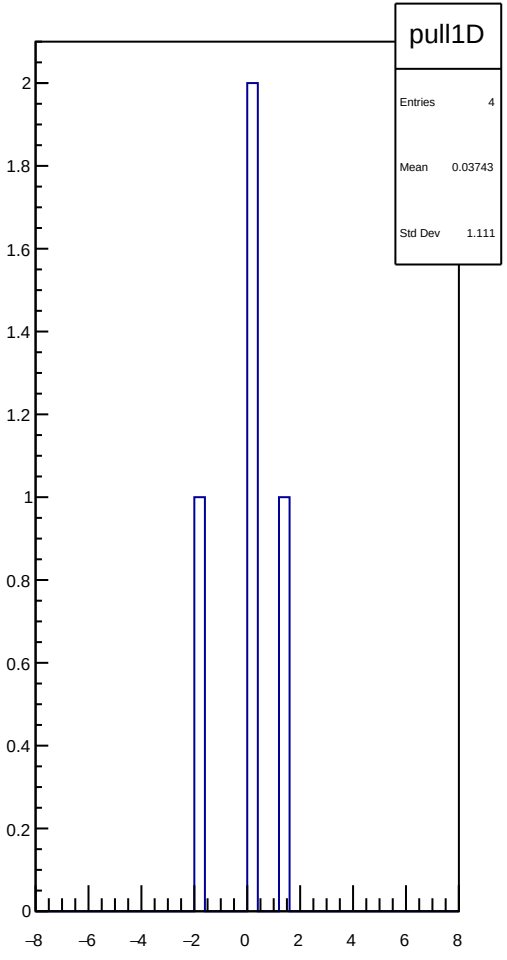

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.673 / 3
p0 −135.8 ± 40.93
50
0
−50
−100
−150
−200
−250
−300
−350
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −57.95
Std Dev 60.16
1
0.5
0
−0.5
−1

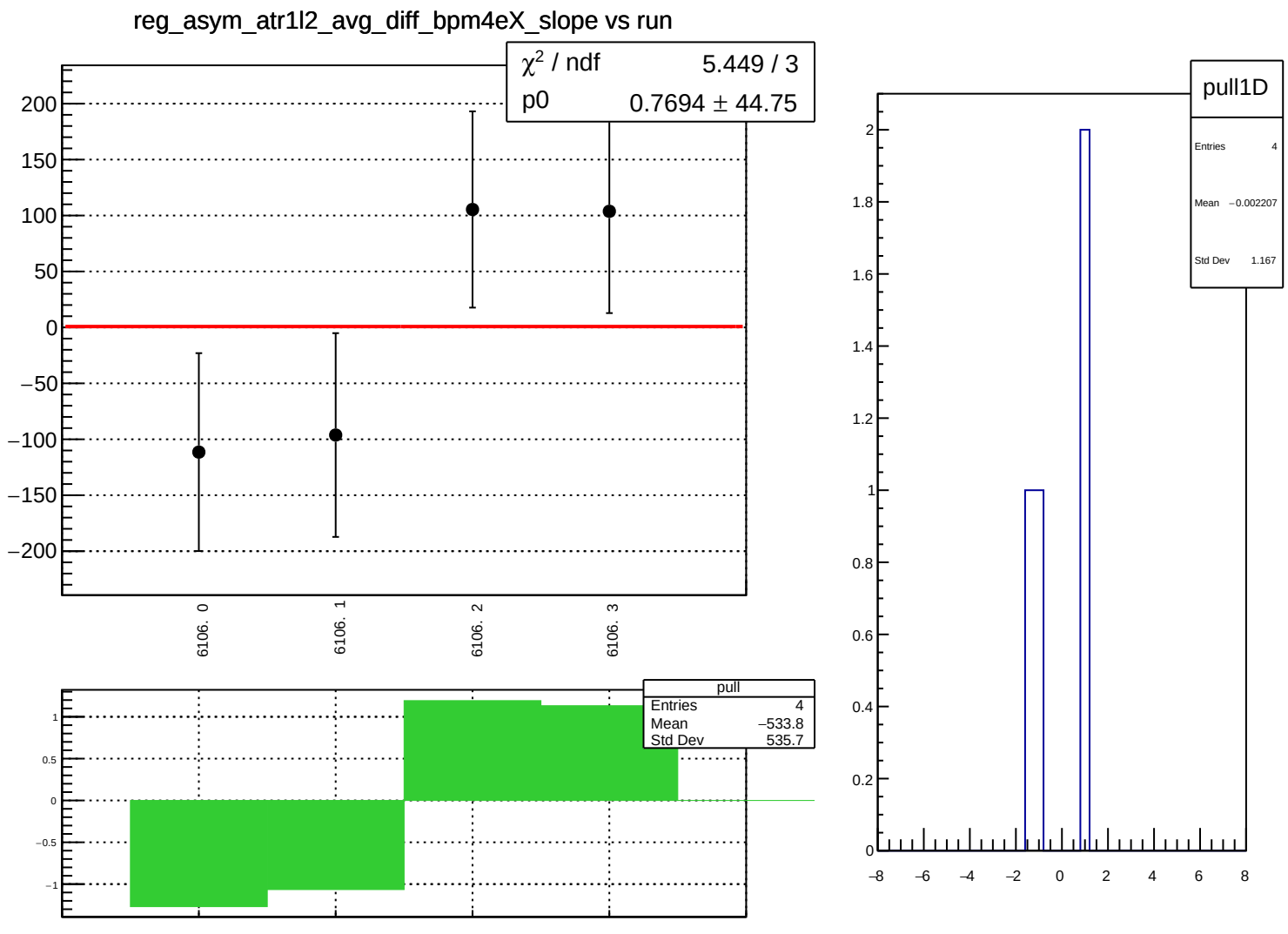

pull1D
Entries 4
Mean 0.007643
Std Dev 0.9582
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

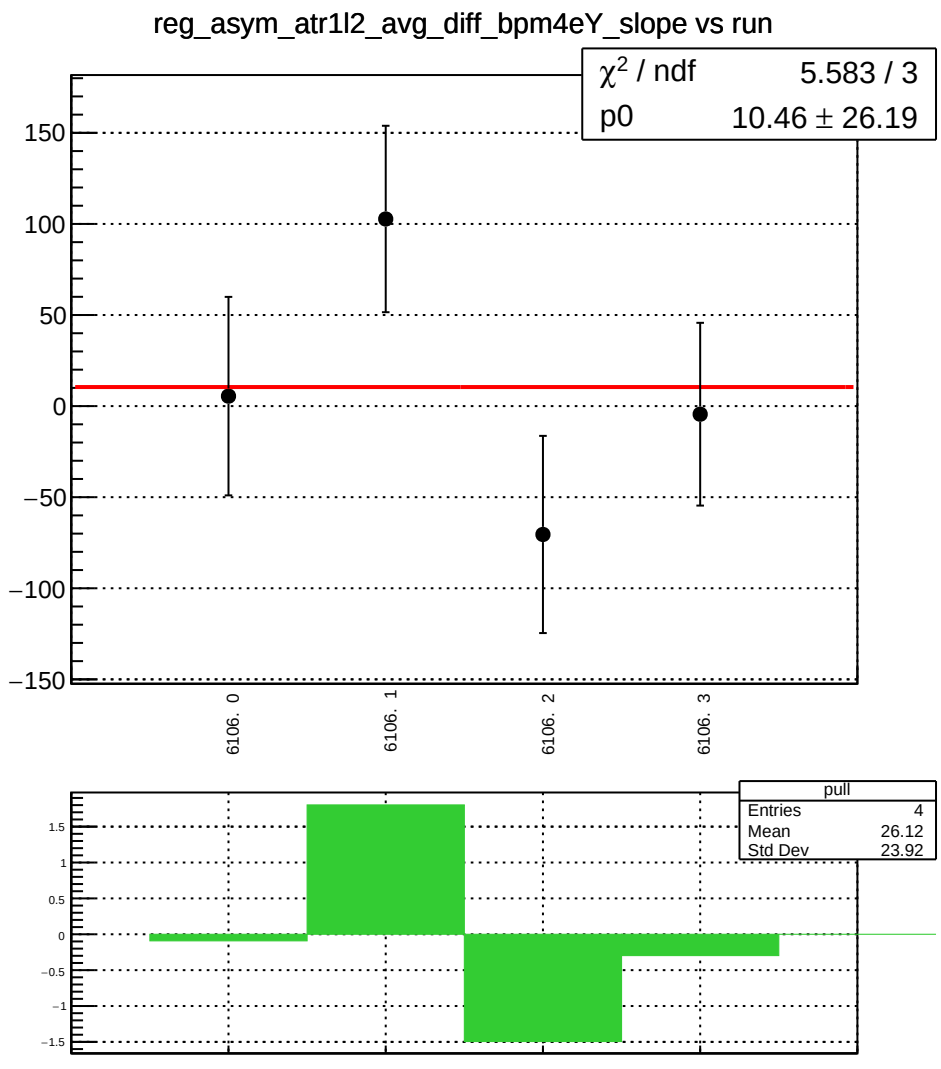

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.195 / 3
p0 118.2 ± 2.908
130
125
120
115
110
105
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 1.042
Std Dev 5.193
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.02609
Std Dev 0.7403
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

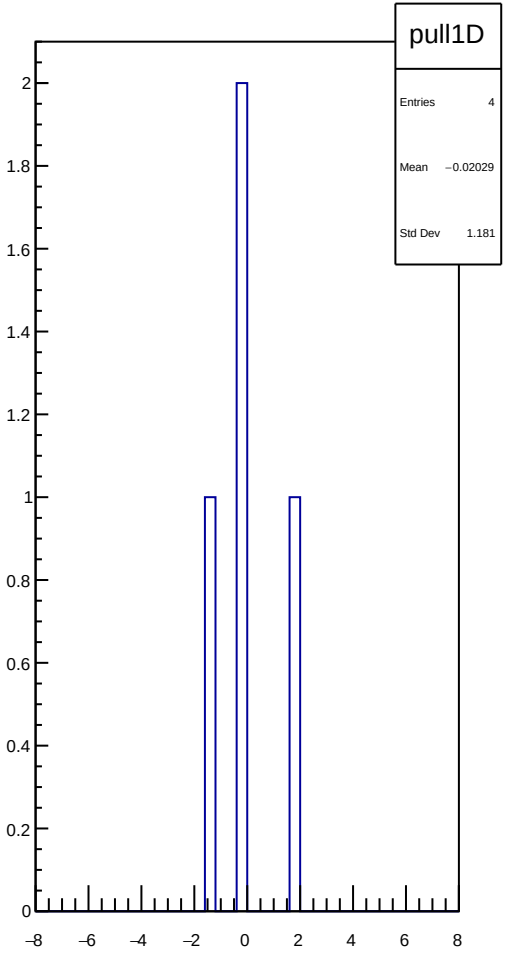

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.084 / 3
p0 −31.36 ± 38.47
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −307.6
Std Dev 309.6
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean 0.003588
Std Dev 1.127
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

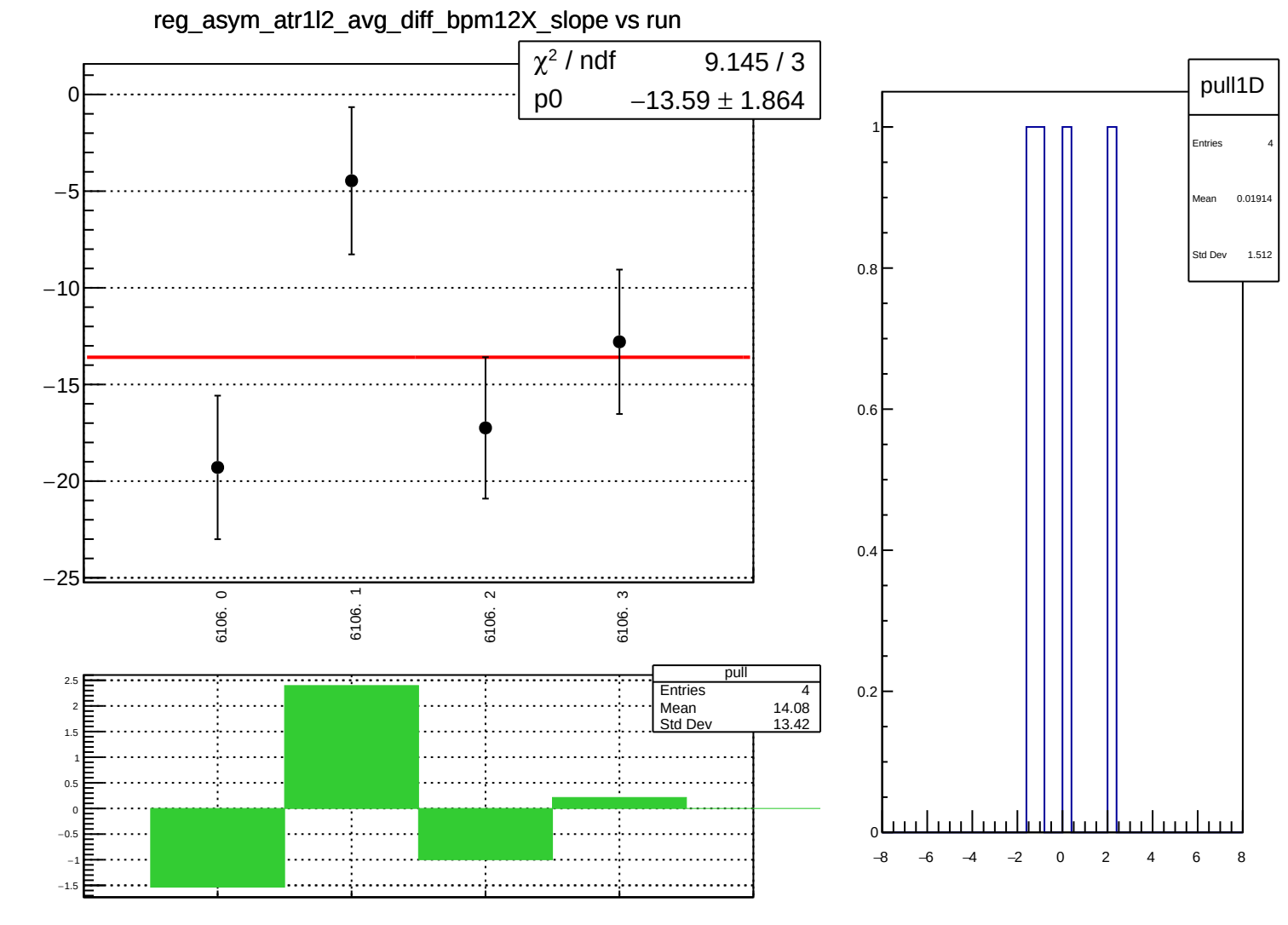

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.947 / 3
p0 −18.18 ± 24.74
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 15.17
Std Dev 13.02
1.5
1
0.5
0
−0.5
−1
−1.5

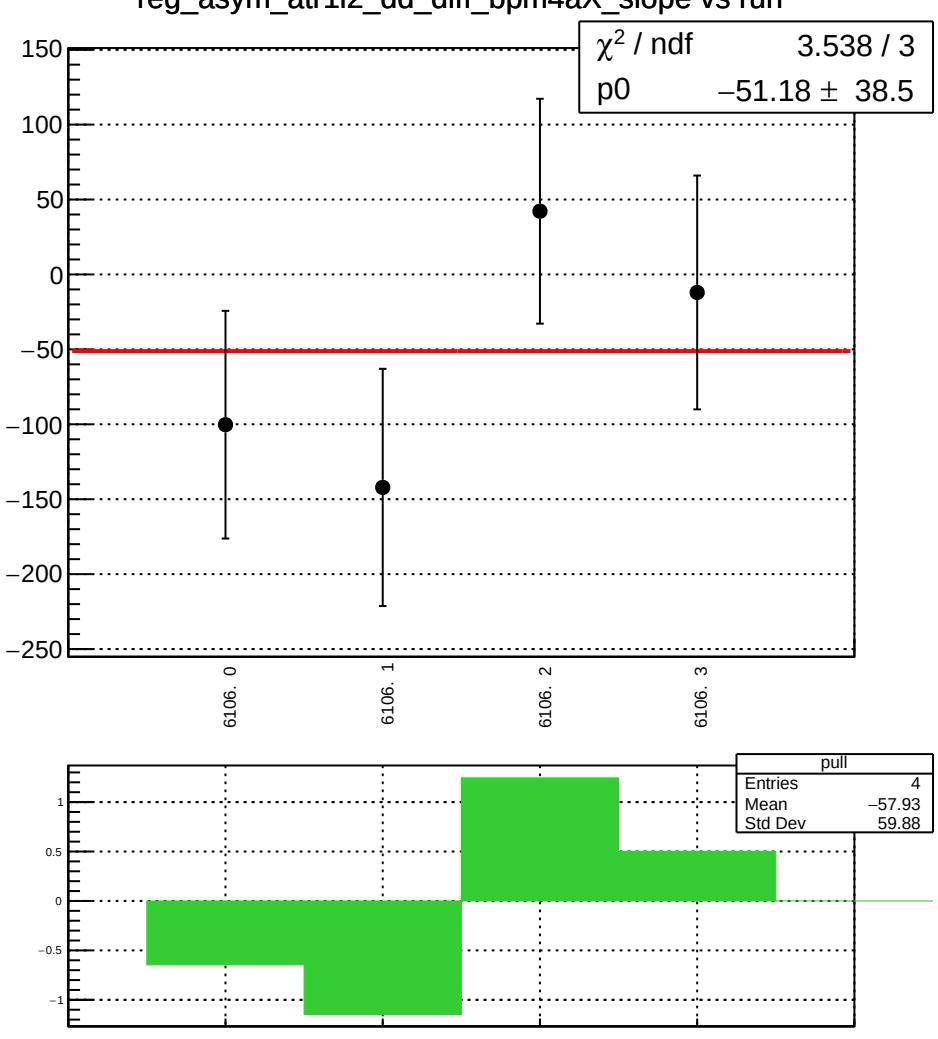

pull1D
Entries 4
Mean 0.03743
Std Dev 1.111
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

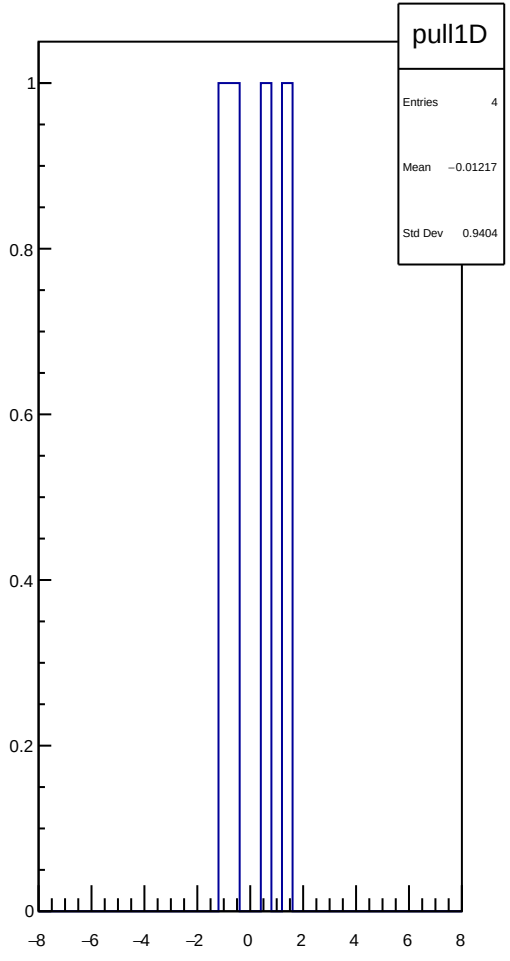

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.449 / 3
p0 0.7694 ± 44.75
200
150
100
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −533.8
Std Dev 535.7
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.002207
Std Dev 1.167
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

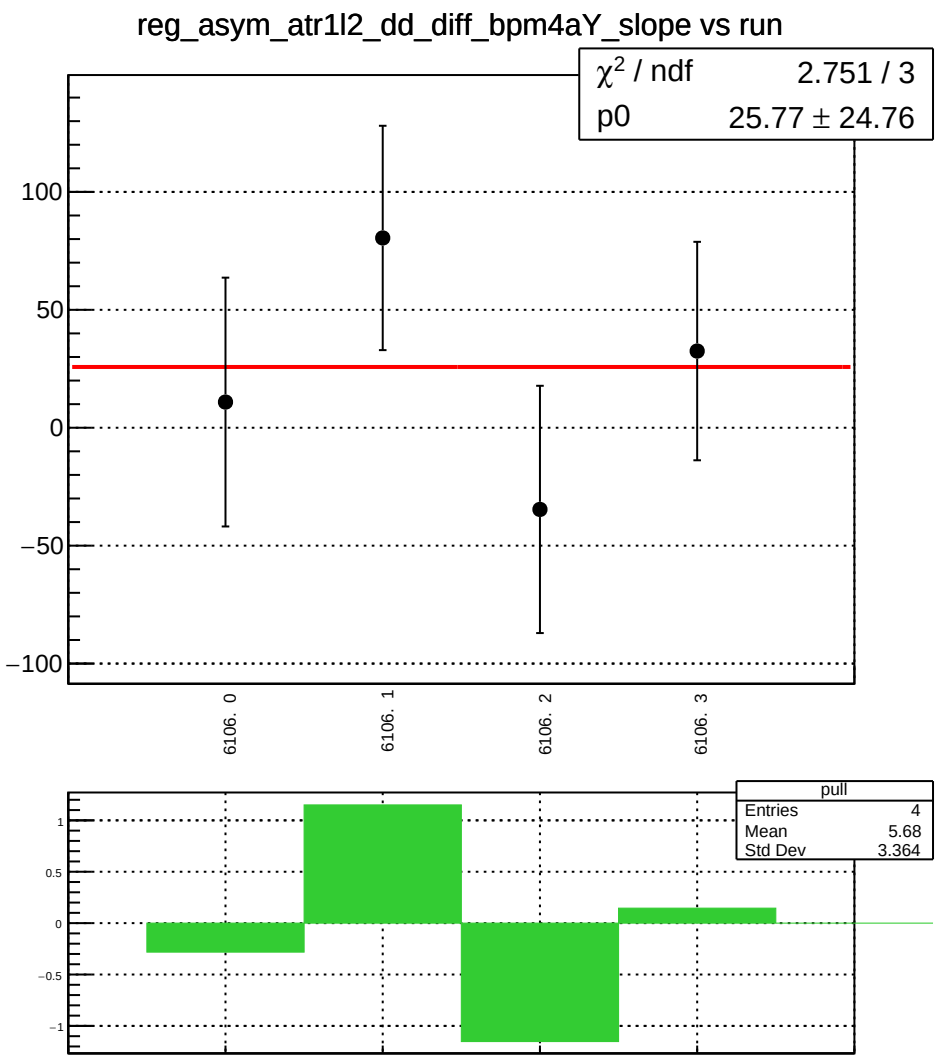

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.583 / 3
p0 10.46 ± 26.19
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 26.12
Std Dev 23.92
1.5
1
0.5
0
−0.5
−1
−1.5

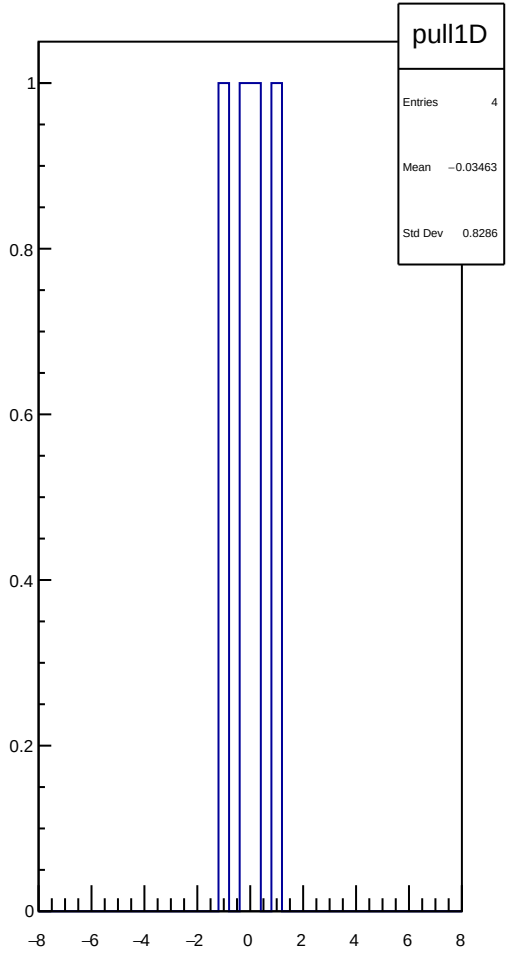

pull1D
Entries 4
Mean −0.02029
Std Dev 1.181
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

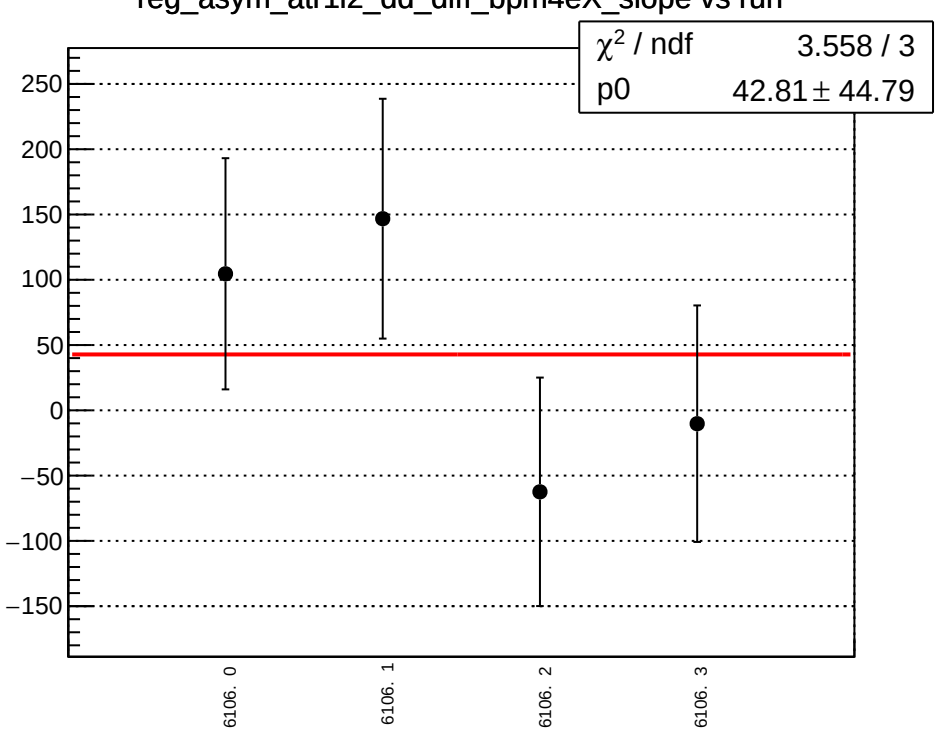

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 9.145 / 3
p0 −13.59 ± 1.864
0
−5
−10
−15
−20
−25
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 14.08
Std Dev 13.42
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean 0.01914
Std Dev 1.512
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

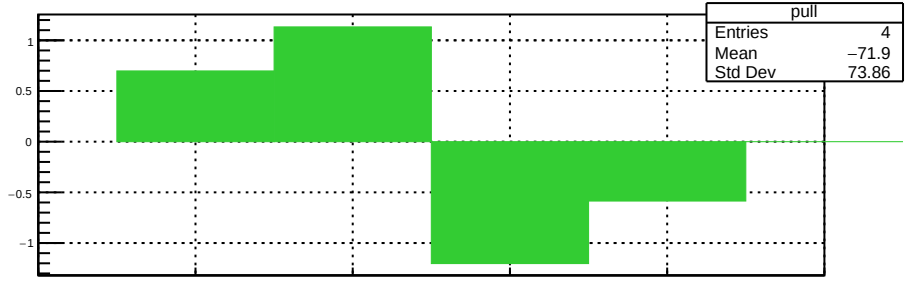

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.538 / 3
p0 −51.18 ± 38.5
150
100
50
0
−50
−100
−150
−200
−250
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −57.93
Std Dev 59.88
1
0.5
0
−0.5
−1

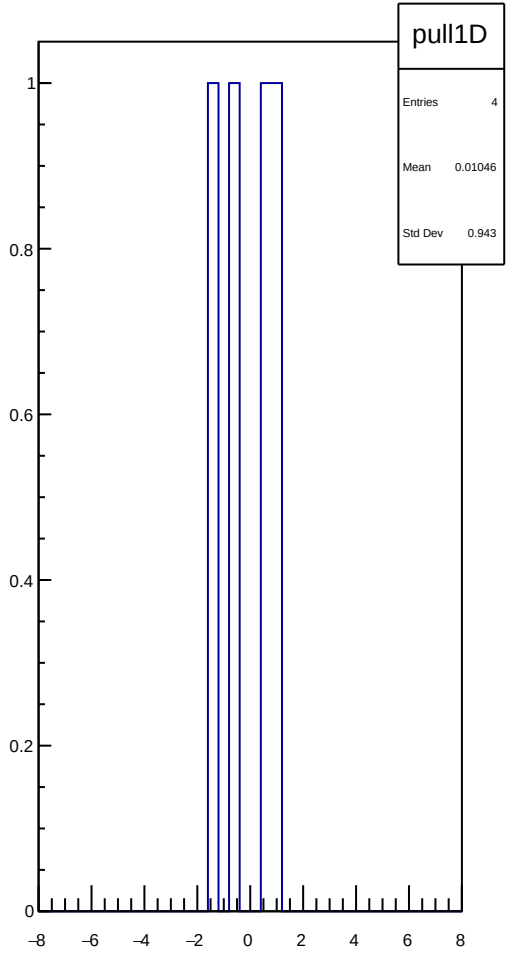

pull1D
Entries 4
Mean −0.01217
Std Dev 0.9404
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

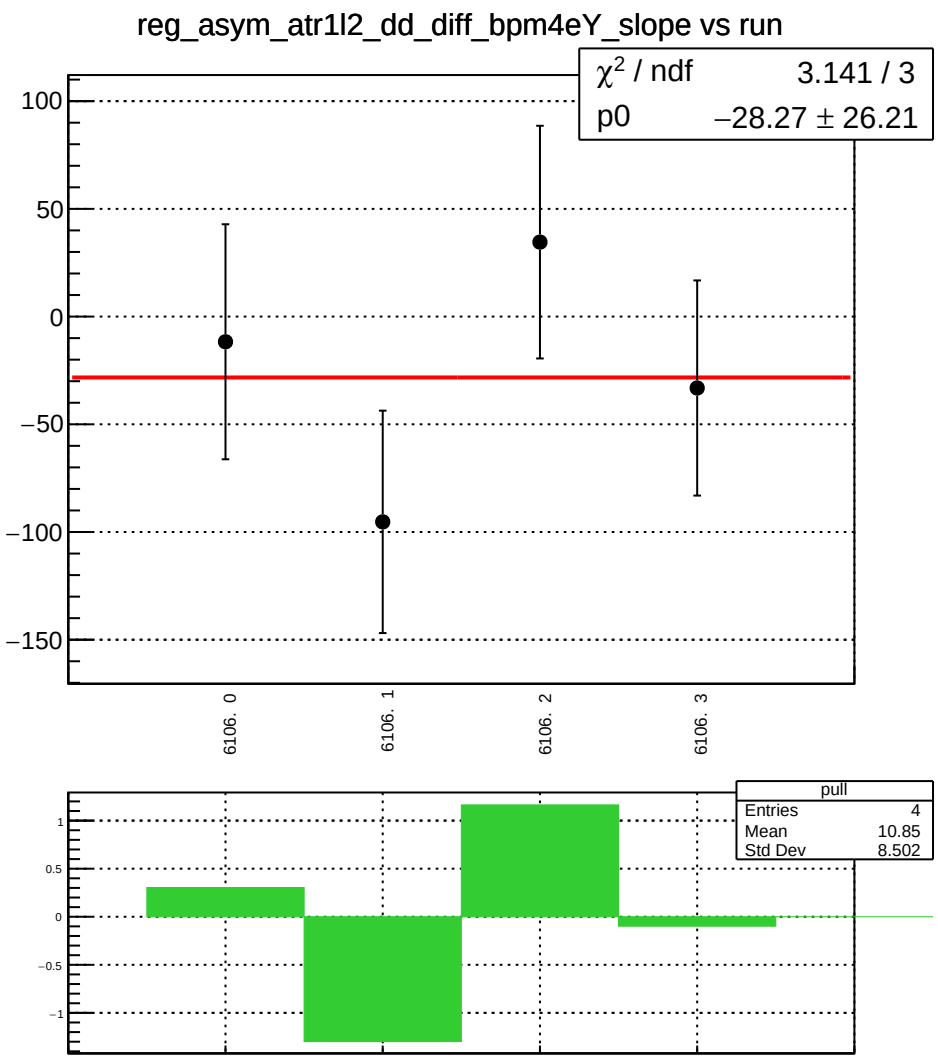

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.751 / 3
p0 25.77 ± 24.76
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 5.68
Std Dev 3.364
1
0.5
0
−0.5
−1

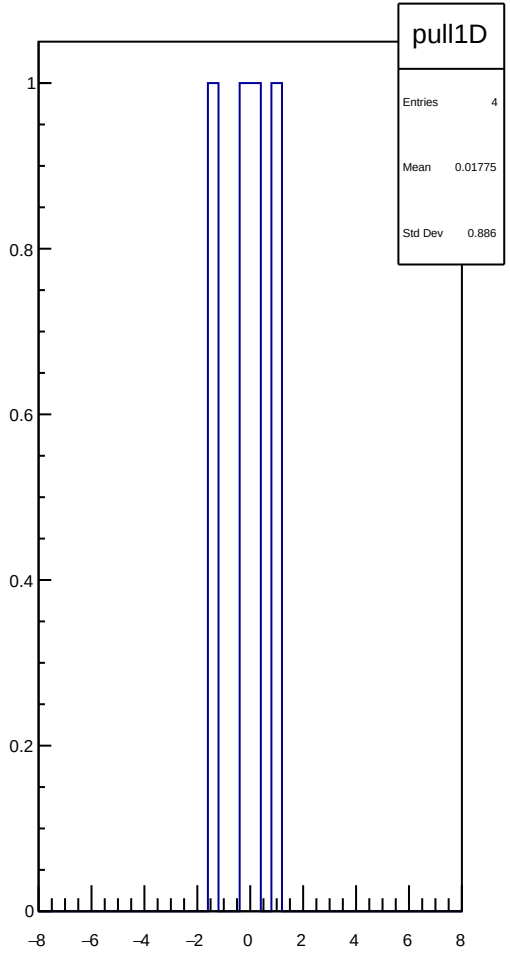

pull1D
Entries 4
Mean −0.03463
Std Dev 0.8286
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

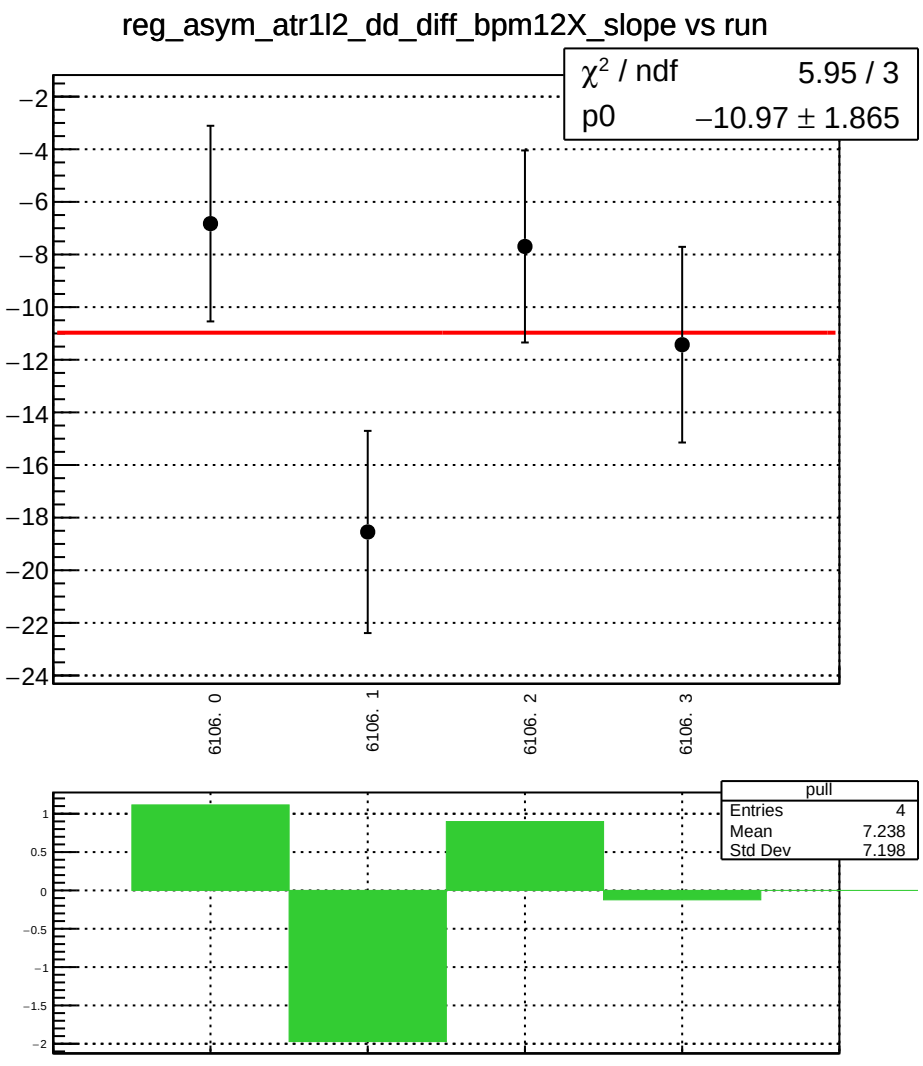

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.558 / 3
p0 42.81 ± 44.79
250
200
150
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3

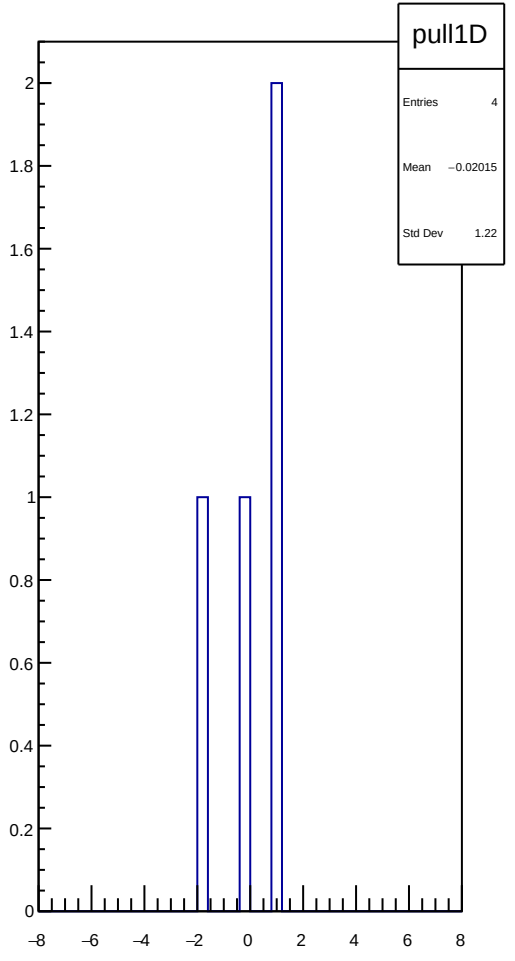

pull
Entries 4
Mean −71.9
Std Dev 73.86
1
0.5
0
−0.5
−1

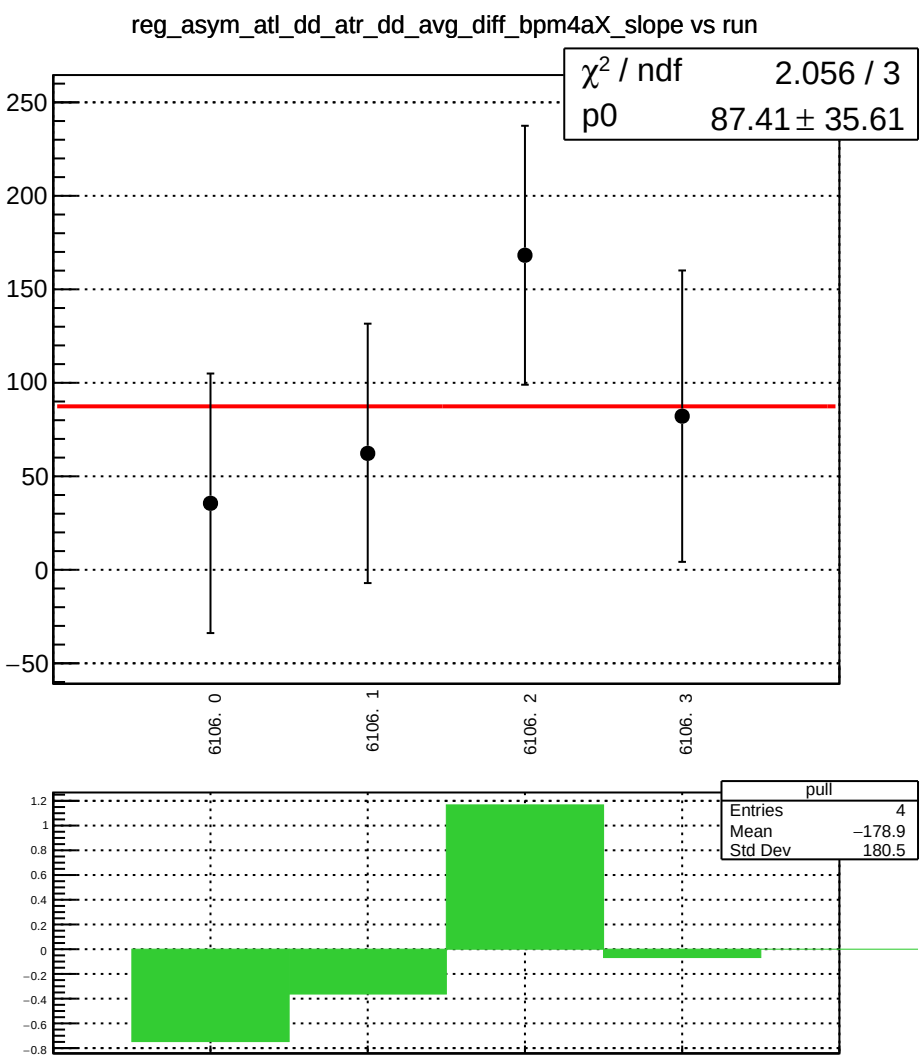

pull1D
Entries 4
Mean 0.01046
Std Dev 0.943
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

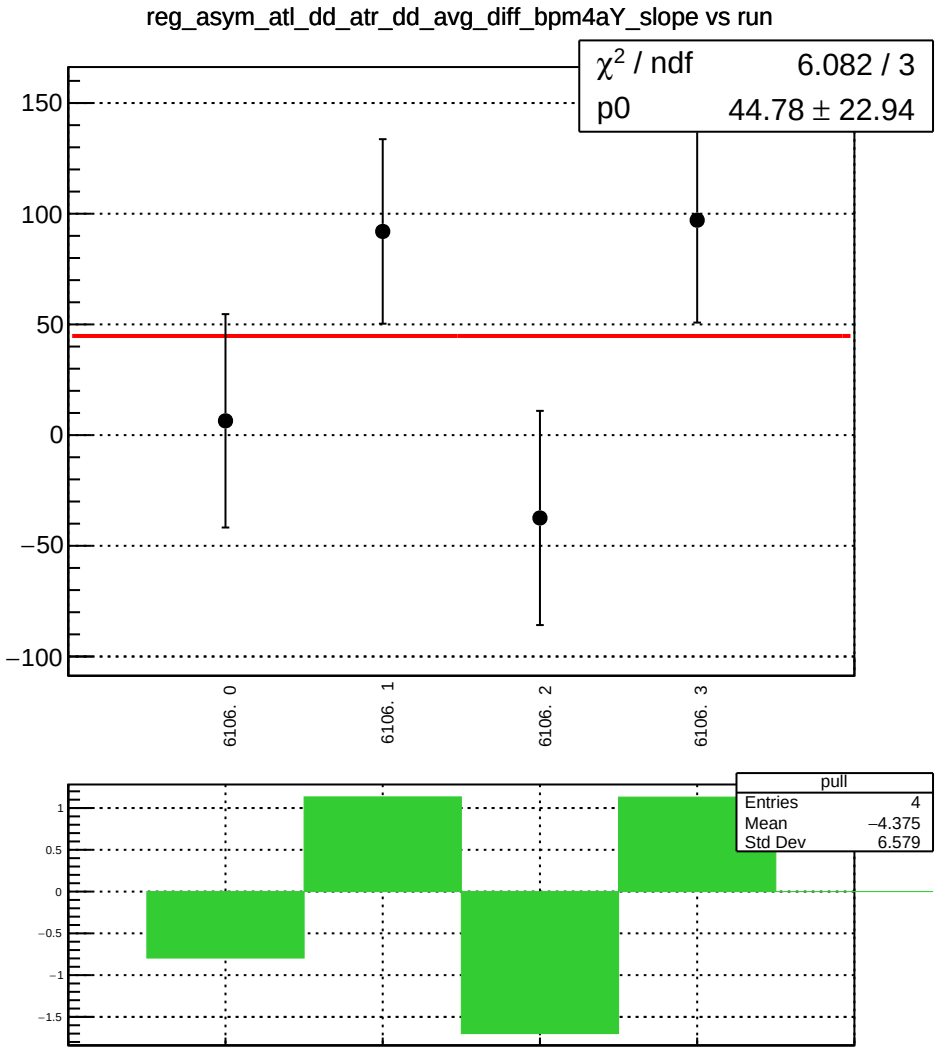

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.141 / 3
p0 −28.27 ± 26.21
100
50
0
−50
−100
−150
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 10.85
Std Dev 8.502
1
0.5
0
−0.5
−1

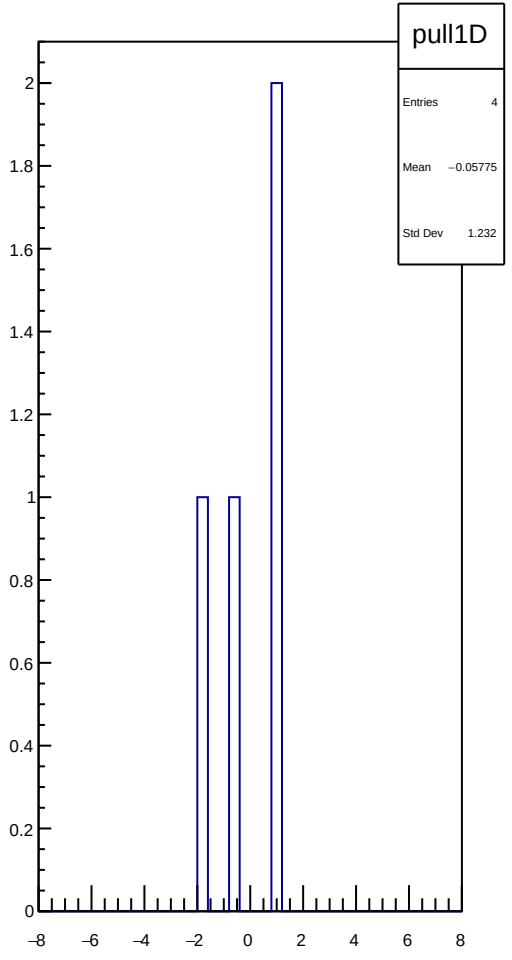

pull1D
Entries 4
Mean 0.01775
Std Dev 0.886
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

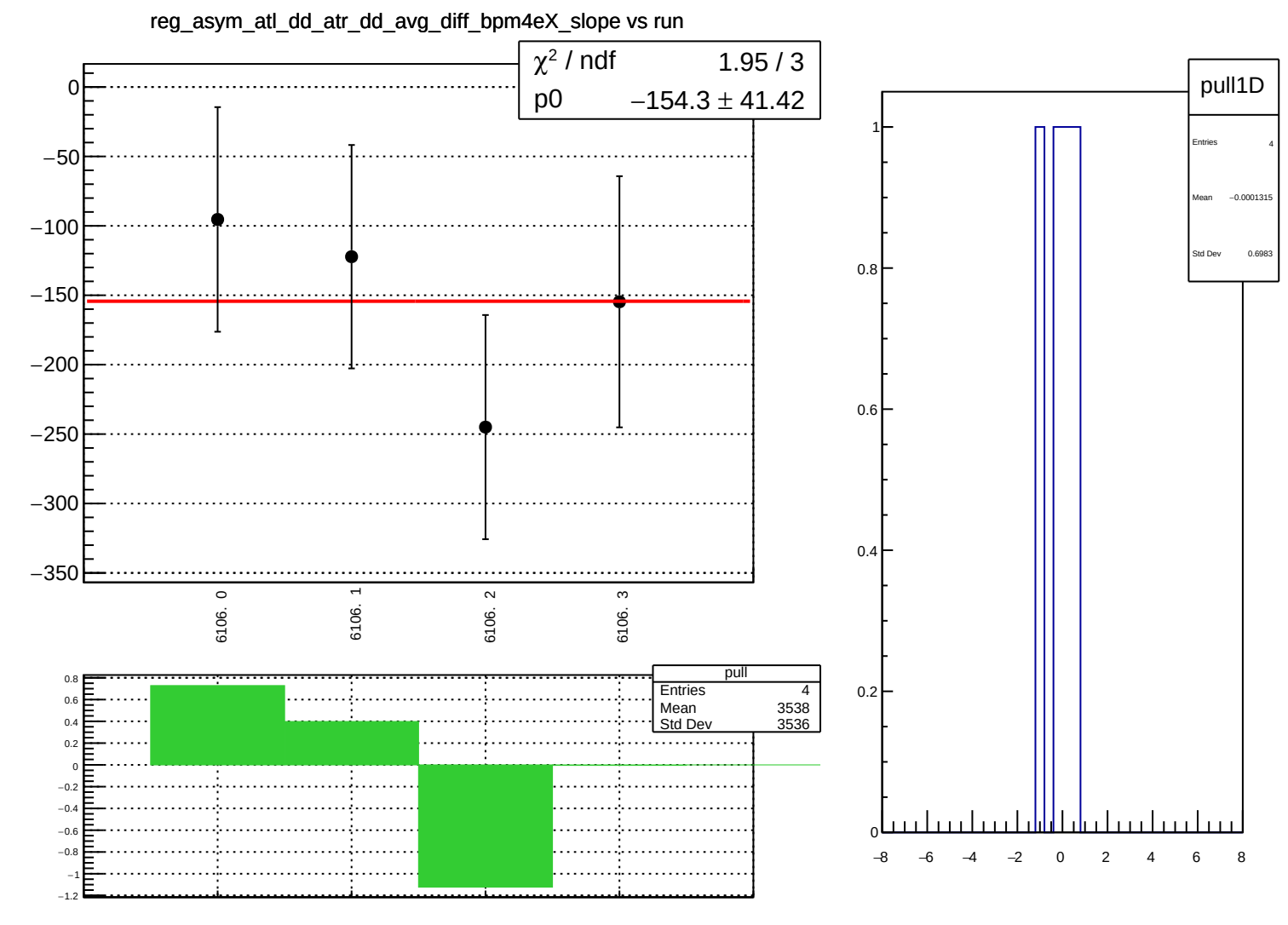

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 5.95 / 3
p0 −10.97 ± 1.865
−2
−4
−6
−8
−10
−12
−14
−16
−18
−20
−22
−24
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 7.238
Std Dev 7.198
1
0.5
0
−0.5
−1
−1.5
−2

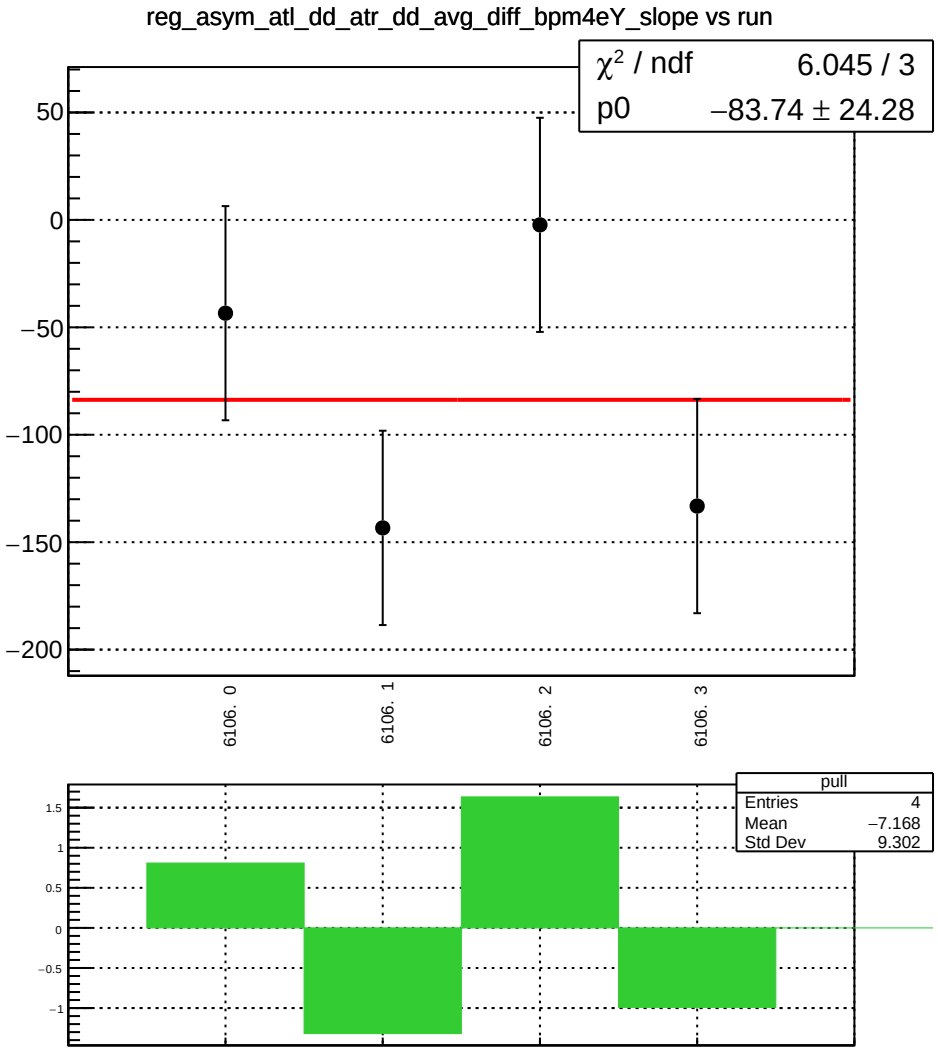

pull1D
Entries 4
Mean −0.02015
Std Dev 1.22
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

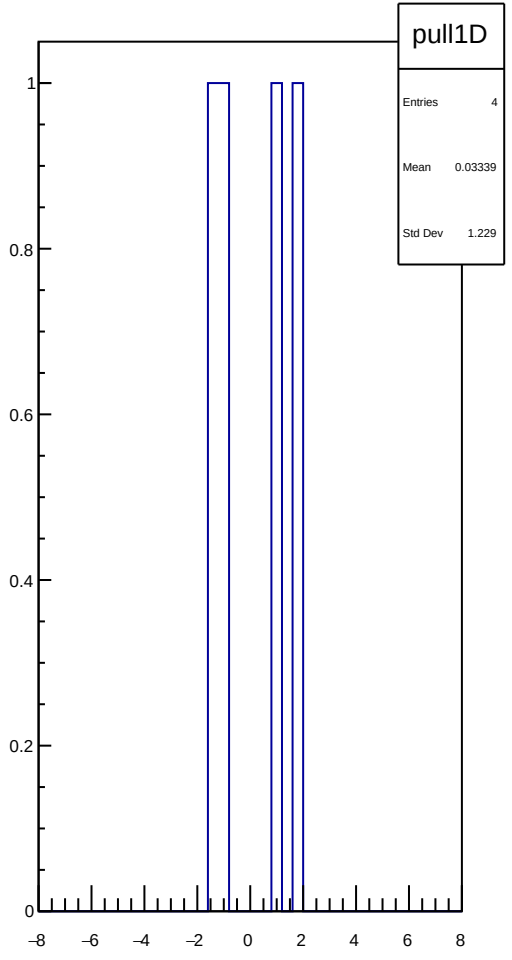

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.056 / 3
p0 87.41 ± 35.61
250
200
150
100
50
0
−50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −178.9
Std Dev 180.5
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.002465
Std Dev 0.717
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

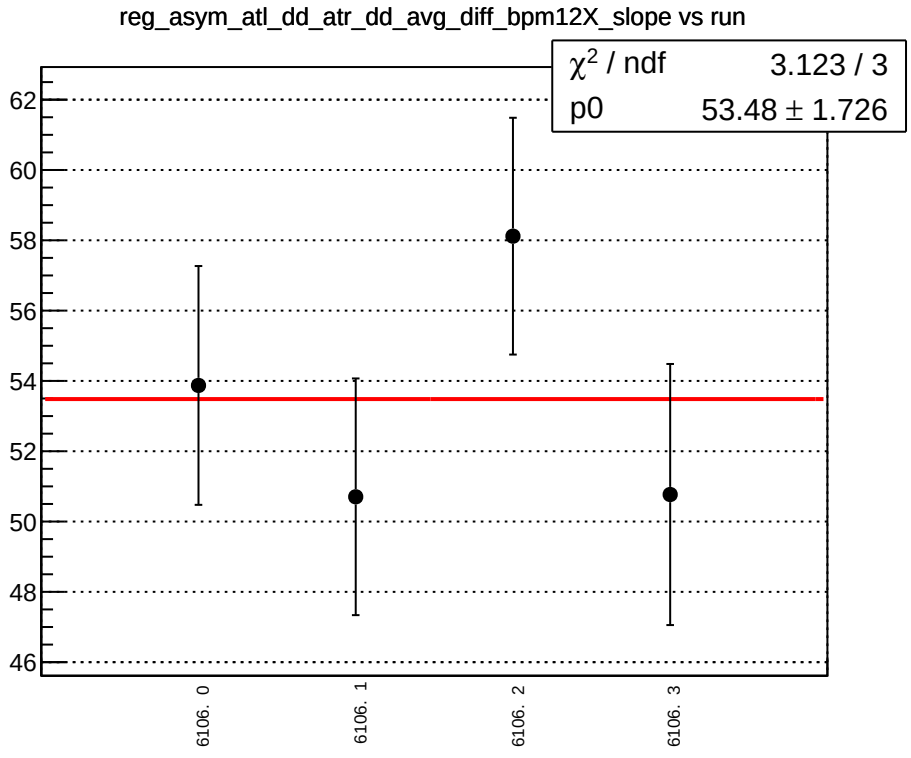

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.082 / 3
p0 44.78 ± 22.94
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −4.375
Std Dev 6.579
1
0.5
0
−0.5
−1
−1.5

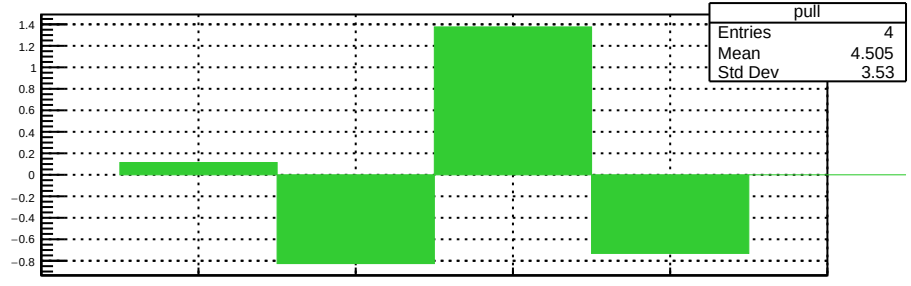

pull1D
Entries 4
Mean −0.05775
Std Dev 1.232
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

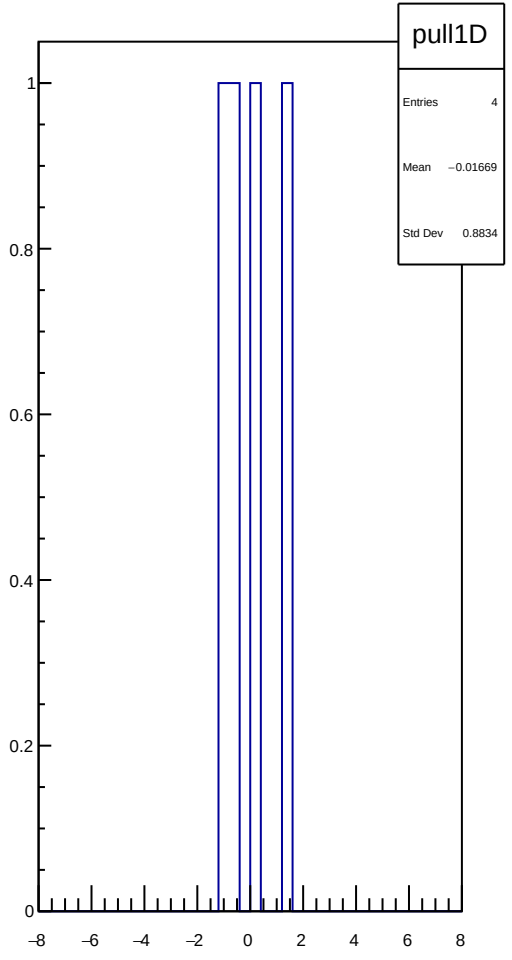

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.95 / 3
p0 −154.3 ± 41.42
0
−50
−100
−150
−200
−250
−300
−350
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 3538
Std Dev 3536
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.0001315
Std Dev 0.6983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

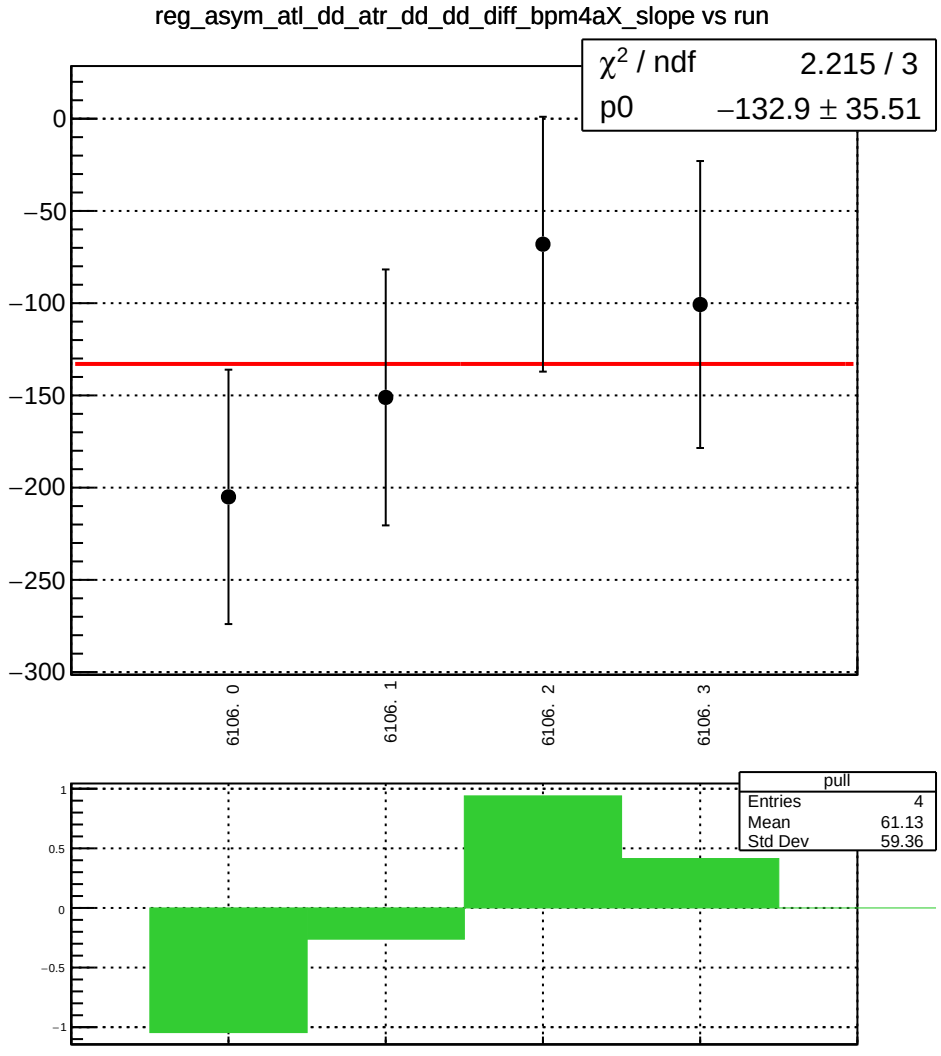

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.045 / 3
p0 −83.74 ± 24.28
50
0
−50
−100
−150
−200
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −7.168
Std Dev 9.302
1.5
1
0.5
0
−0.5
−1

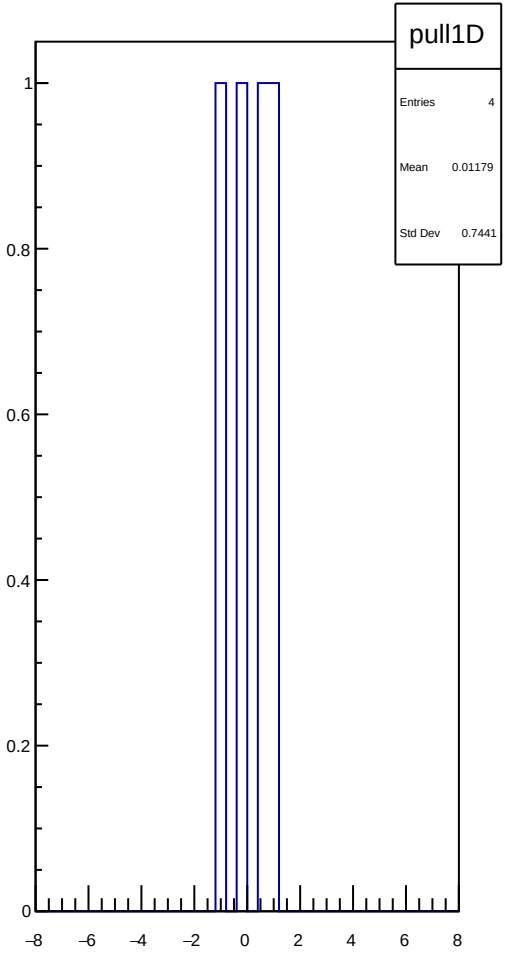

pull1D
Entries 4
Mean 0.03339
Std Dev 1.229
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

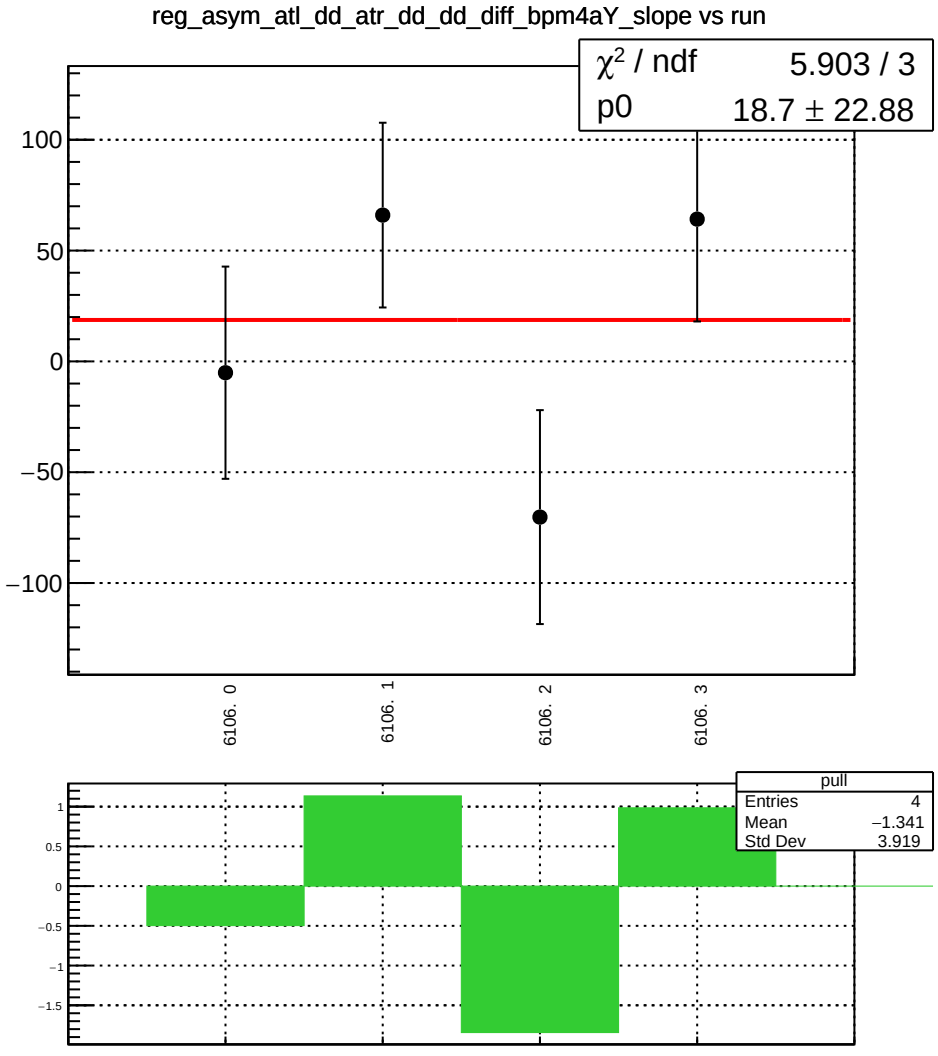

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 3.123 / 3
p0 53.48 ± 1.726
62
60
58
56
54
52
50
48
46
6106. 0
6106. 1
6106. 2
6106. 3

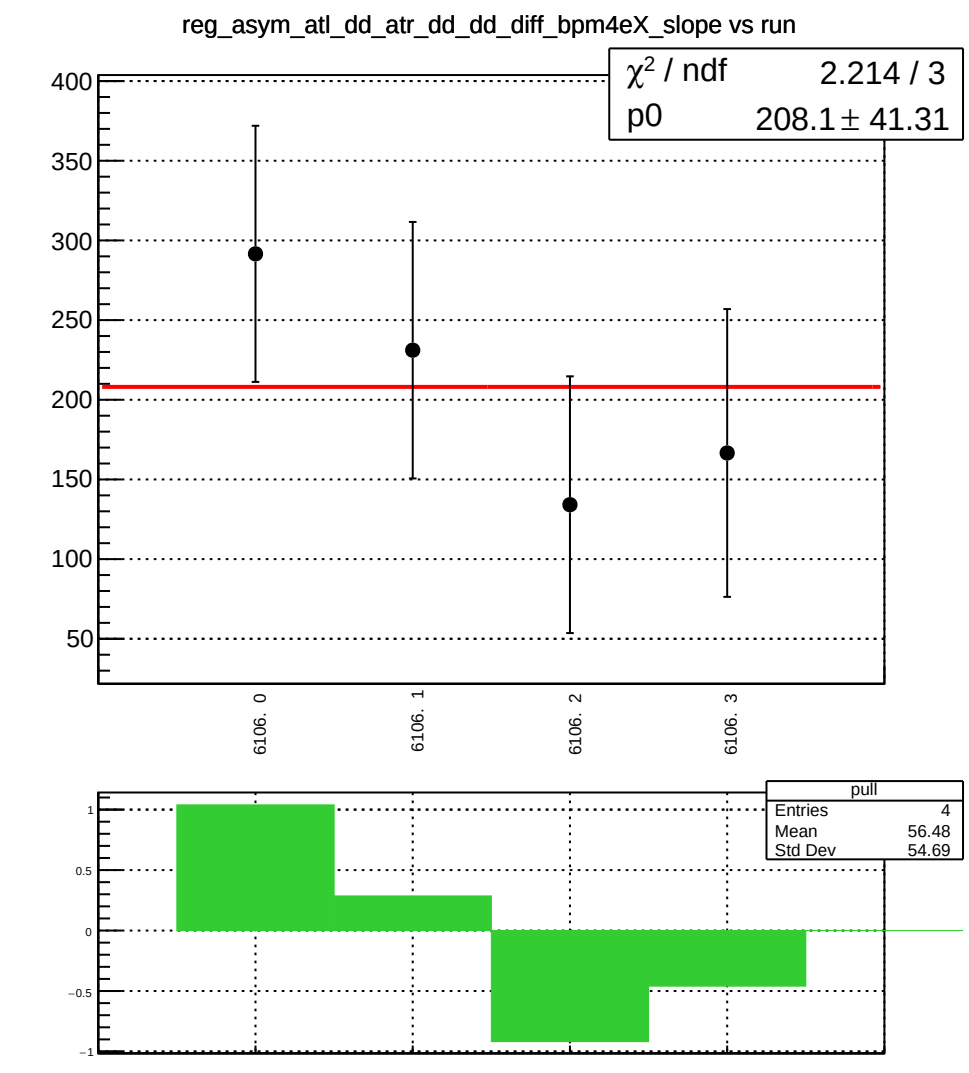

pull
Entries 4
Mean 4.505
Std Dev 3.53
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

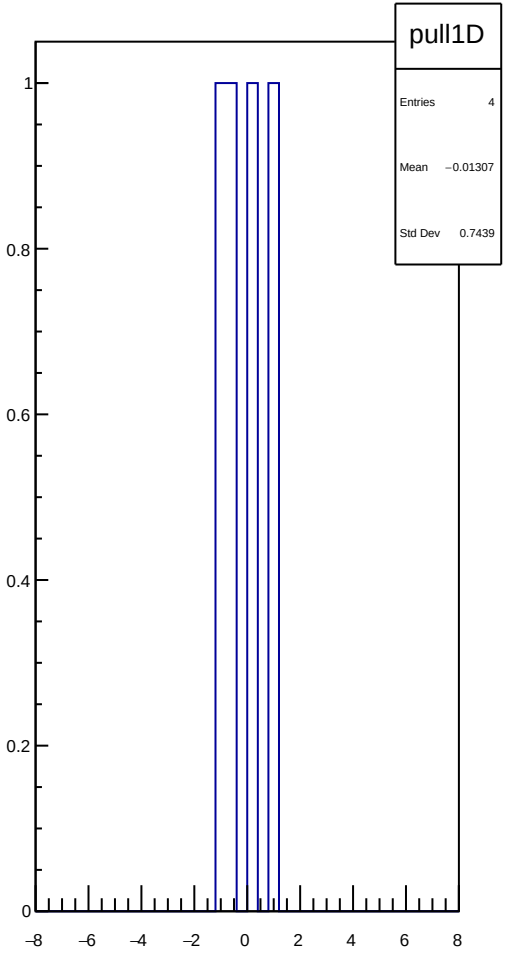

pull1D
Entries 4
Mean −0.01669
Std Dev 0.8834
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

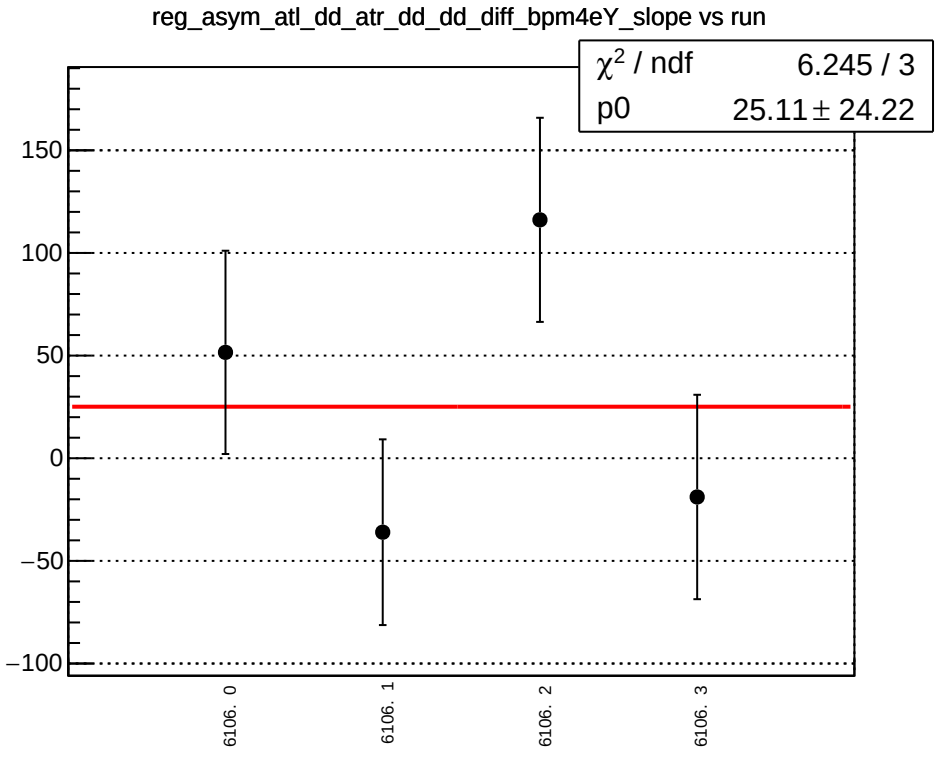

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.215 / 3
p0 −132.9 ± 35.51
0
−50
−100
−150
−200
−250
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 61.13
Std Dev 59.36
1
0.5
0
−0.5
−1

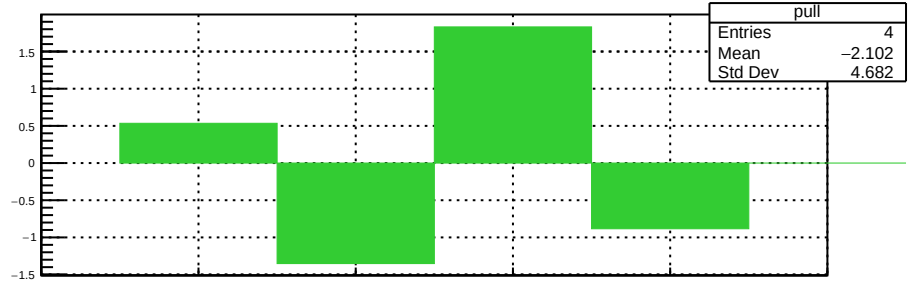

pull1D
Entries 4
Mean 0.01179
Std Dev 0.7441
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

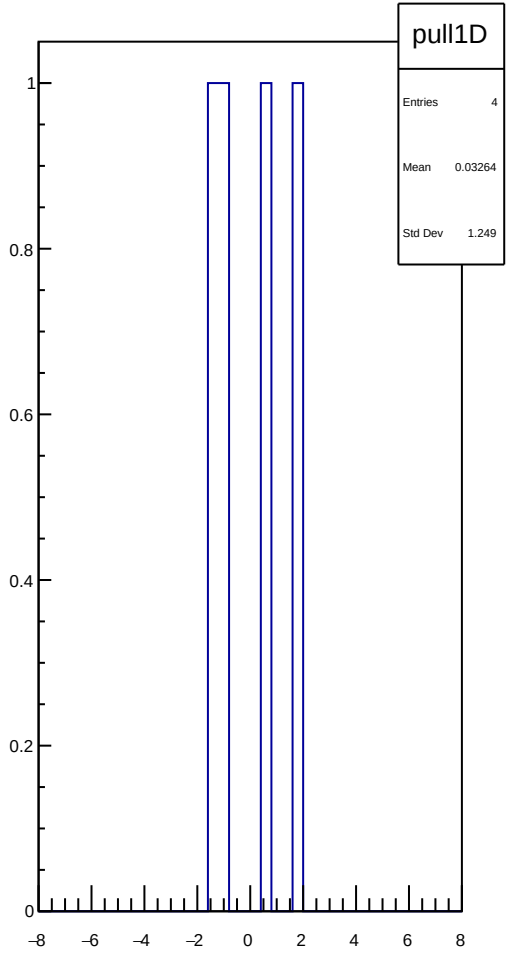

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.903 / 3
p0 18.7 ± 22.88
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −1.341
Std Dev 3.919
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean −0.05495
Std Dev 1.214
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

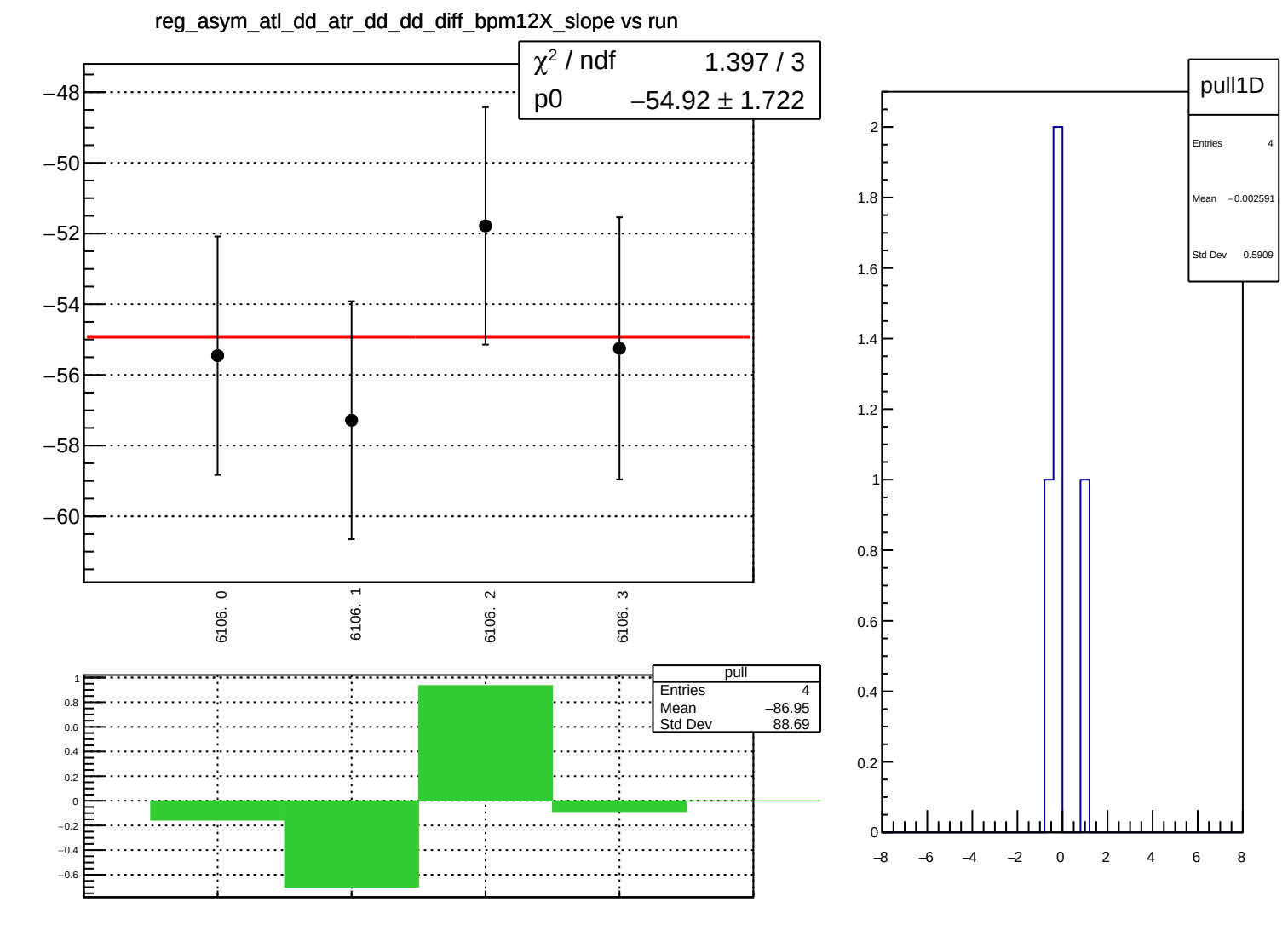

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.214 / 3
p0 208.1 ± 41.31
400
350
300
250
200
150
100
50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 56.48
Std Dev 54.69
1
0.5
0
−0.5
−1

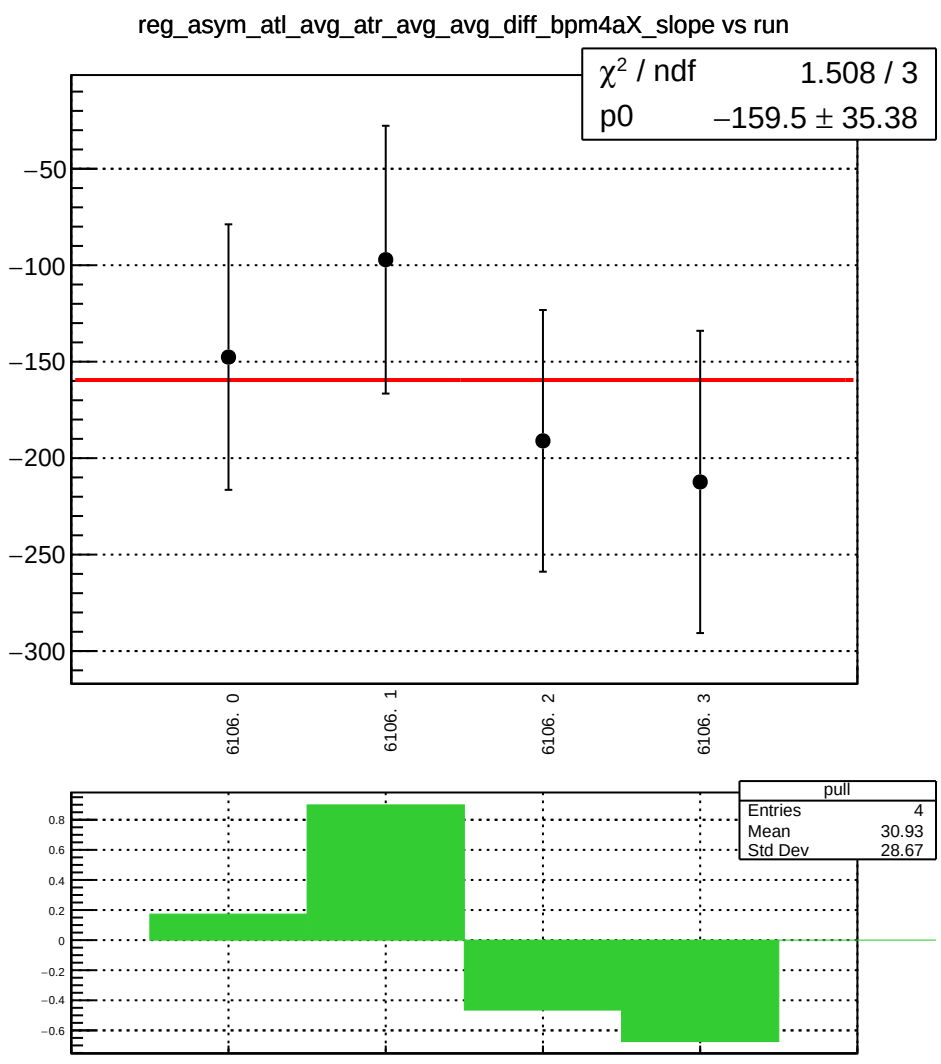

pull1D
Entries 4
Mean −0.01307
Std Dev 0.7439
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

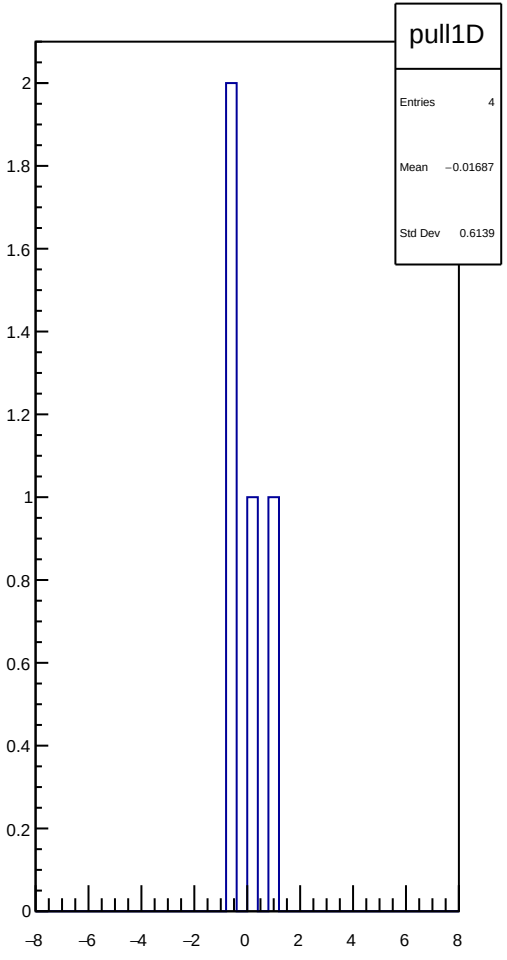

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.245 / 3
p0 25.11 ± 24.22
150
100
50
0
−50
−100
6106. 0
6106. 1
6106. 2
6106. 3

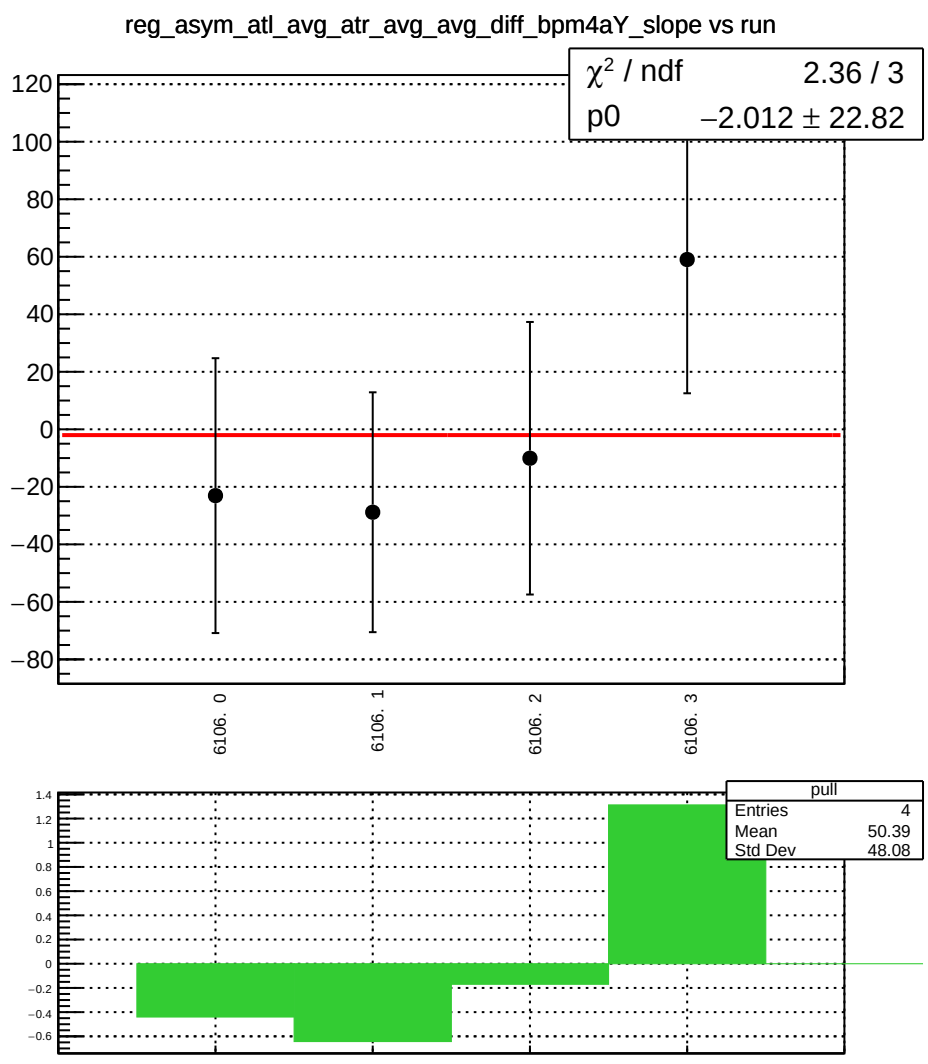

pull
Entries 4
Mean −2.102
Std Dev 4.682
1.5
1
0.5
0
−0.5
−1
−1.5

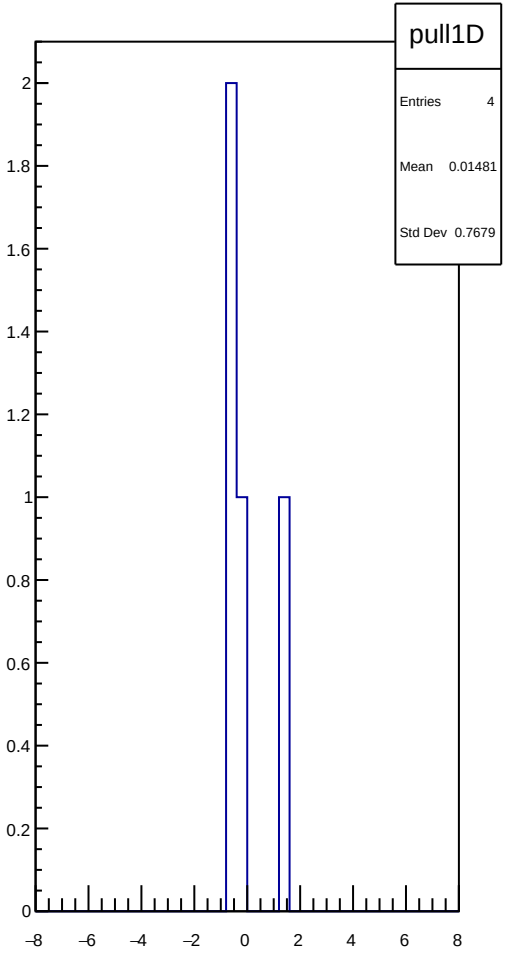

pull1D
Entries 4
Mean 0.03264
Std Dev 1.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

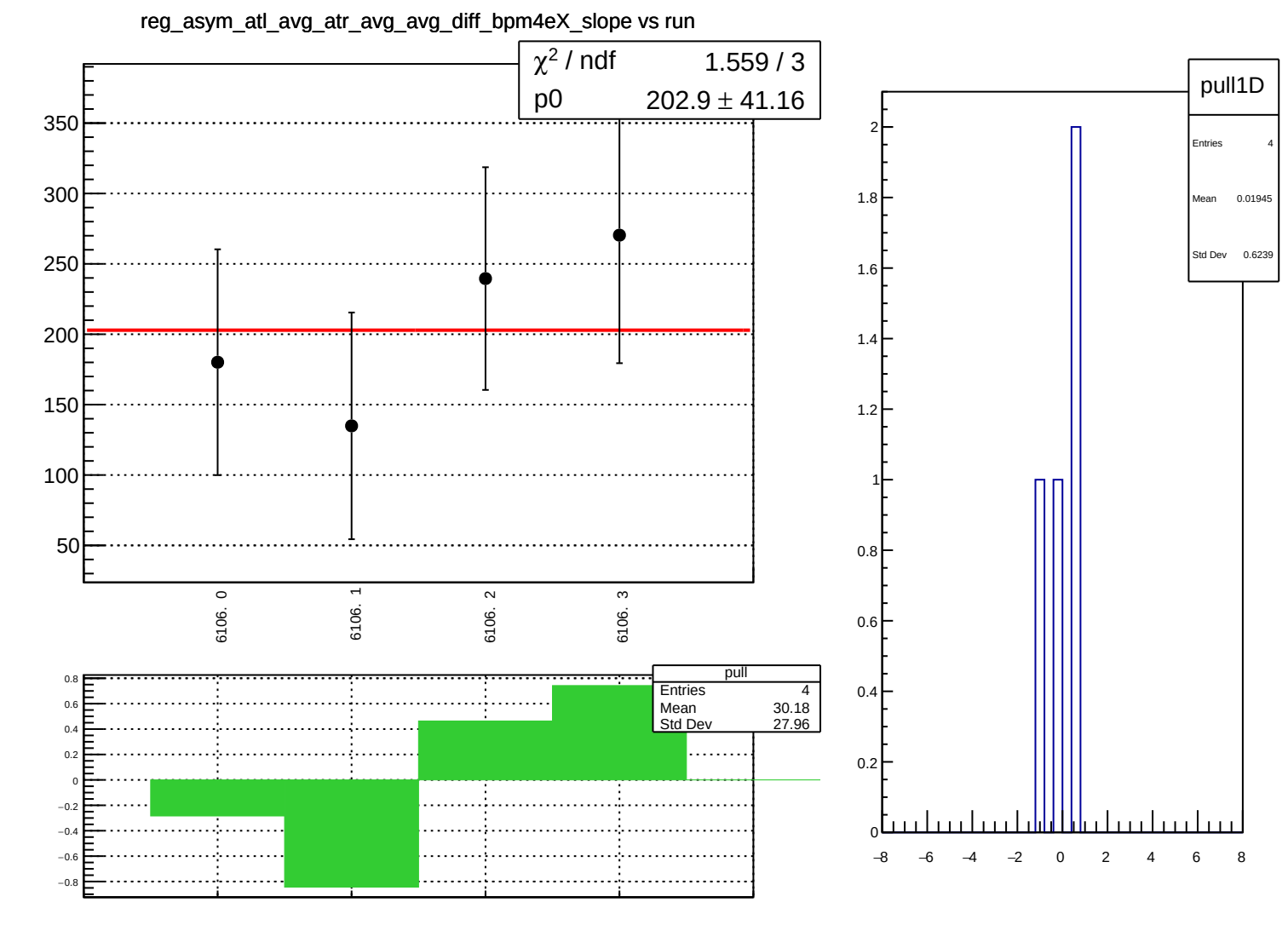

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1.397 / 3
p0 −54.92 ± 1.722
−48
−50
−52
−54
−56
−58
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −86.95
Std Dev 88.69
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.002591
Std Dev 0.5909
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

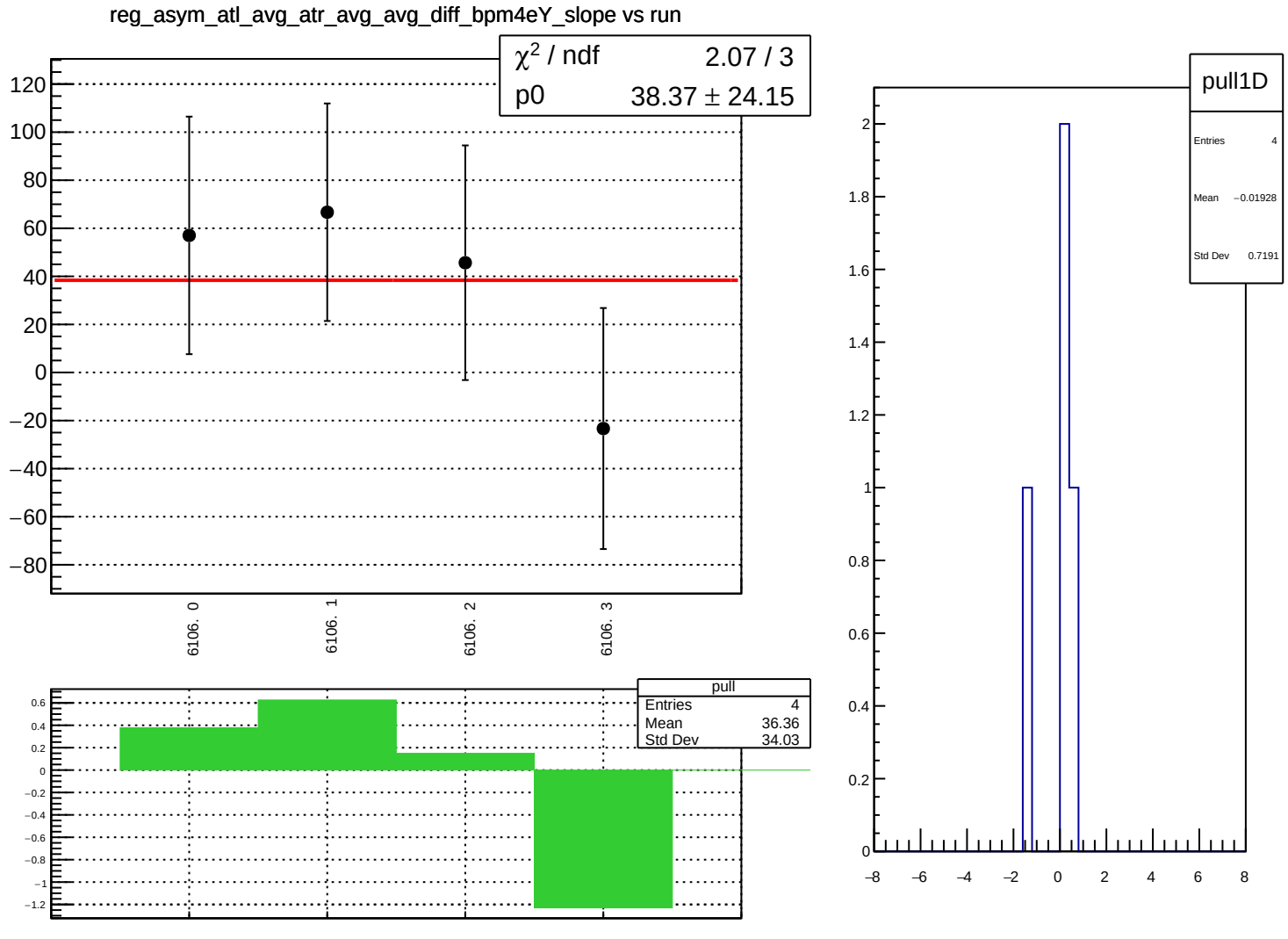

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.508 / 3
p0 −159.5 ± 35.38
−50
−100
−150
−200
−250
−300
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 30.93
Std Dev 28.67
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

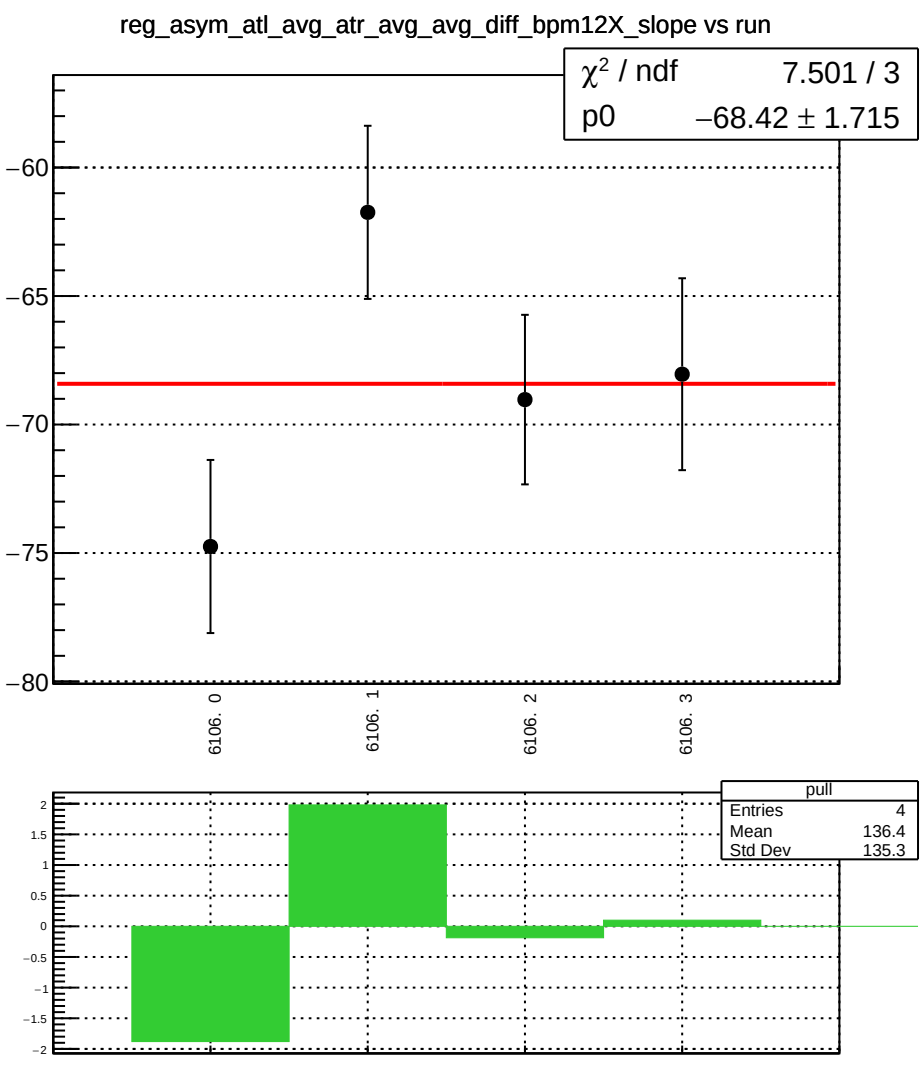

pull1D
Entries 4
Mean −0.01687
Std Dev 0.6139
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

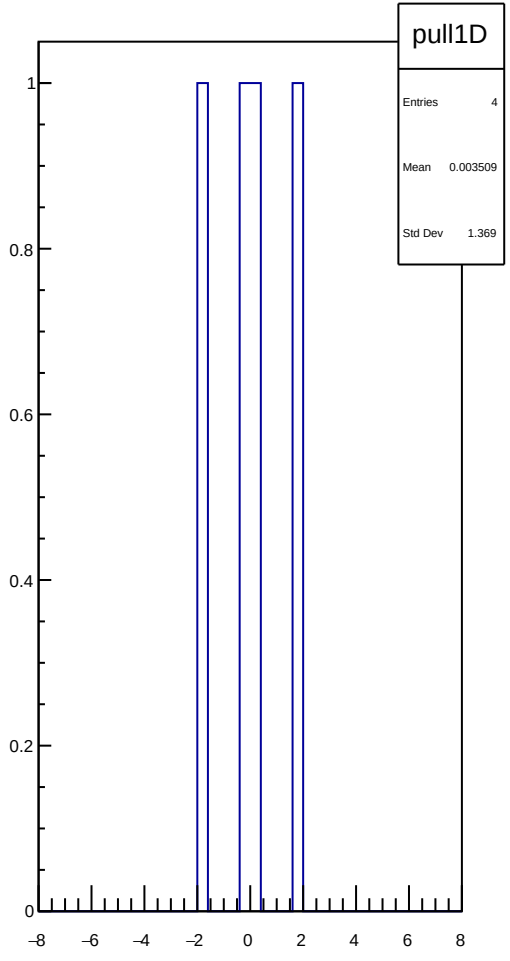

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.36 / 3
p0 −2.012 ± 22.82
120
100
80
60
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 50.39
Std Dev 48.08
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

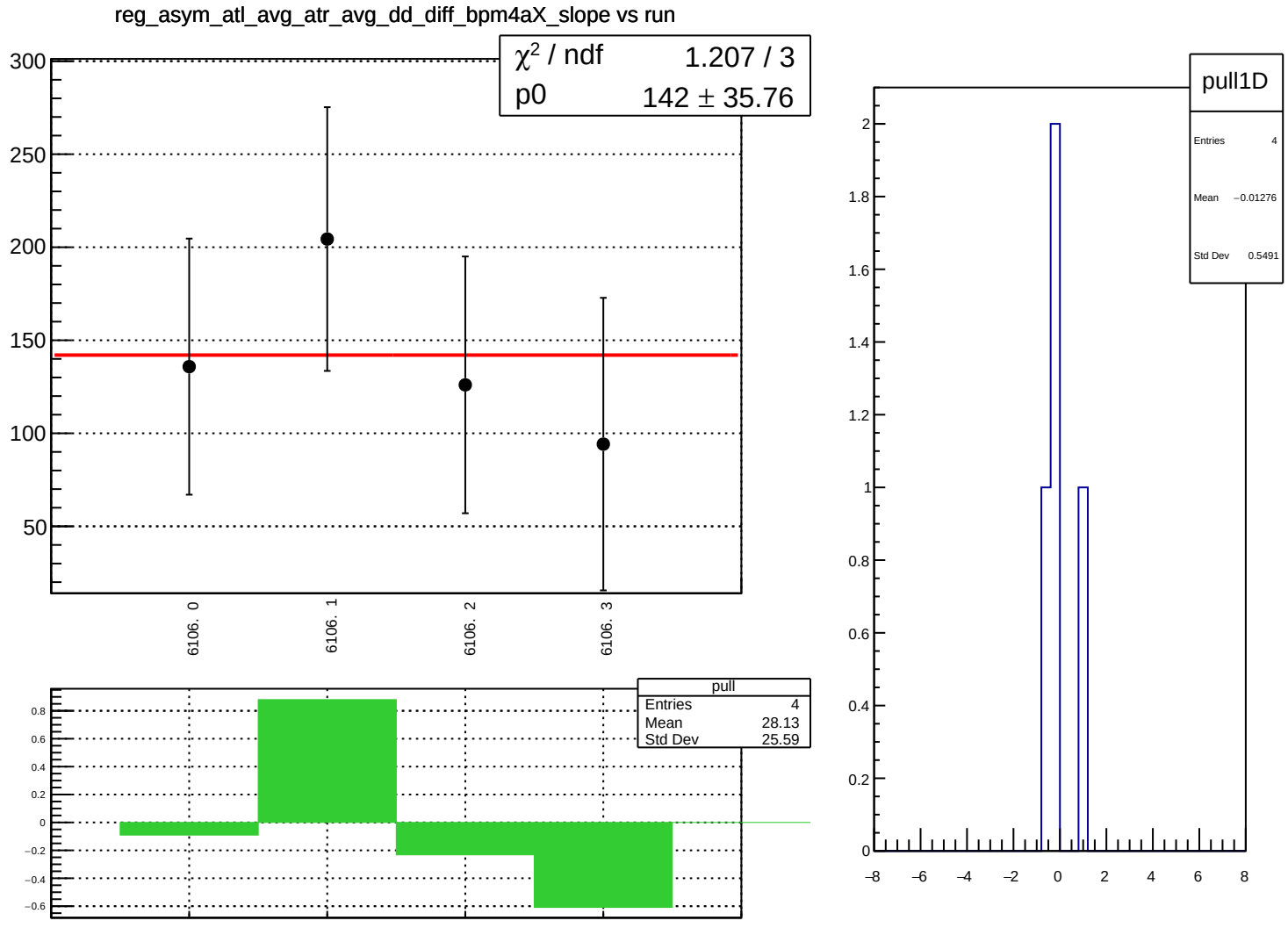

pull1D
Entries 4
Mean 0.01481
Std Dev 0.7679
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

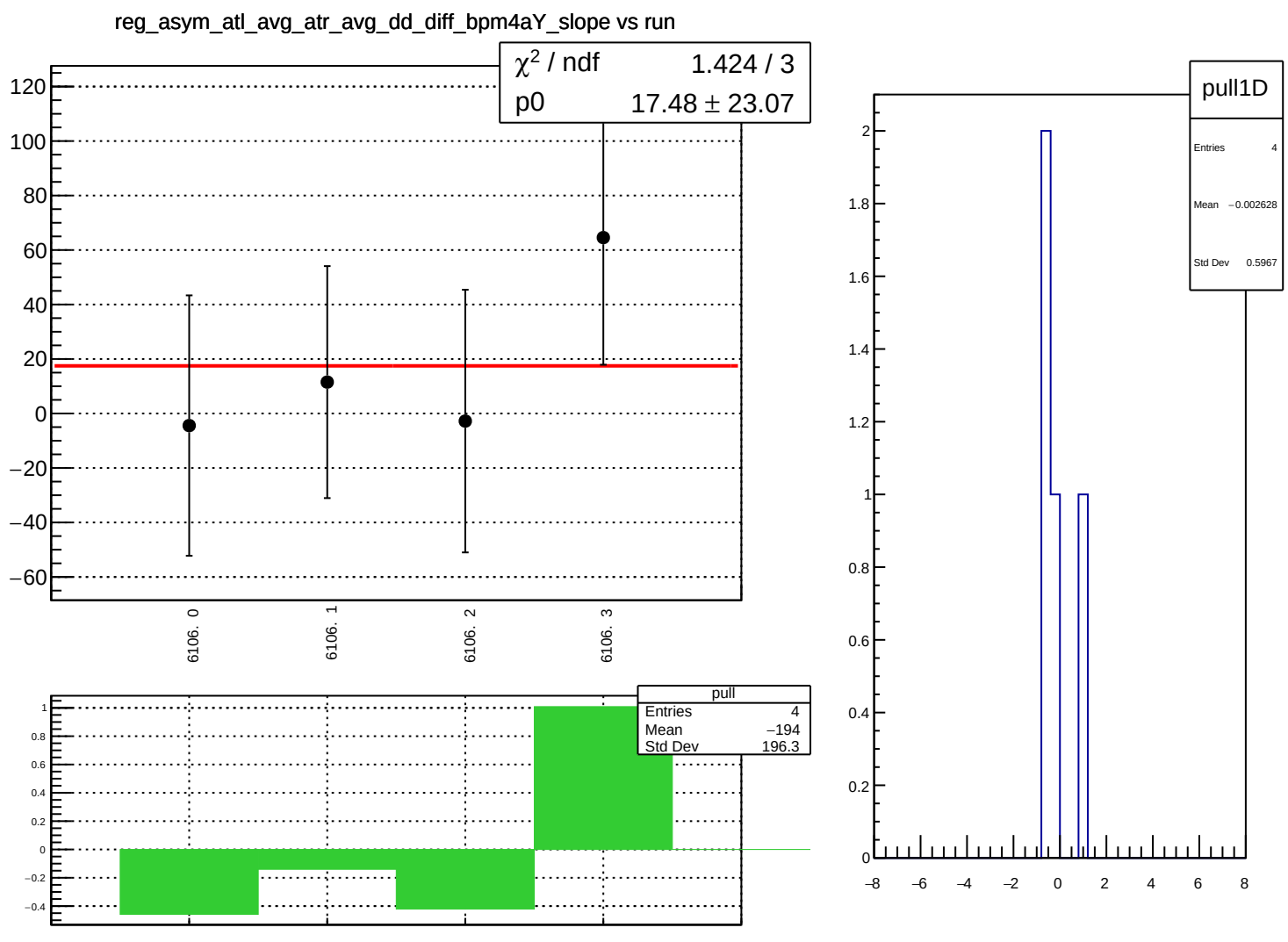

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.559 / 3
p0 202.9 ± 41.16
350
300
250
200
150
100
50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 30.18
Std Dev 27.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.01945
Std Dev 0.6239
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

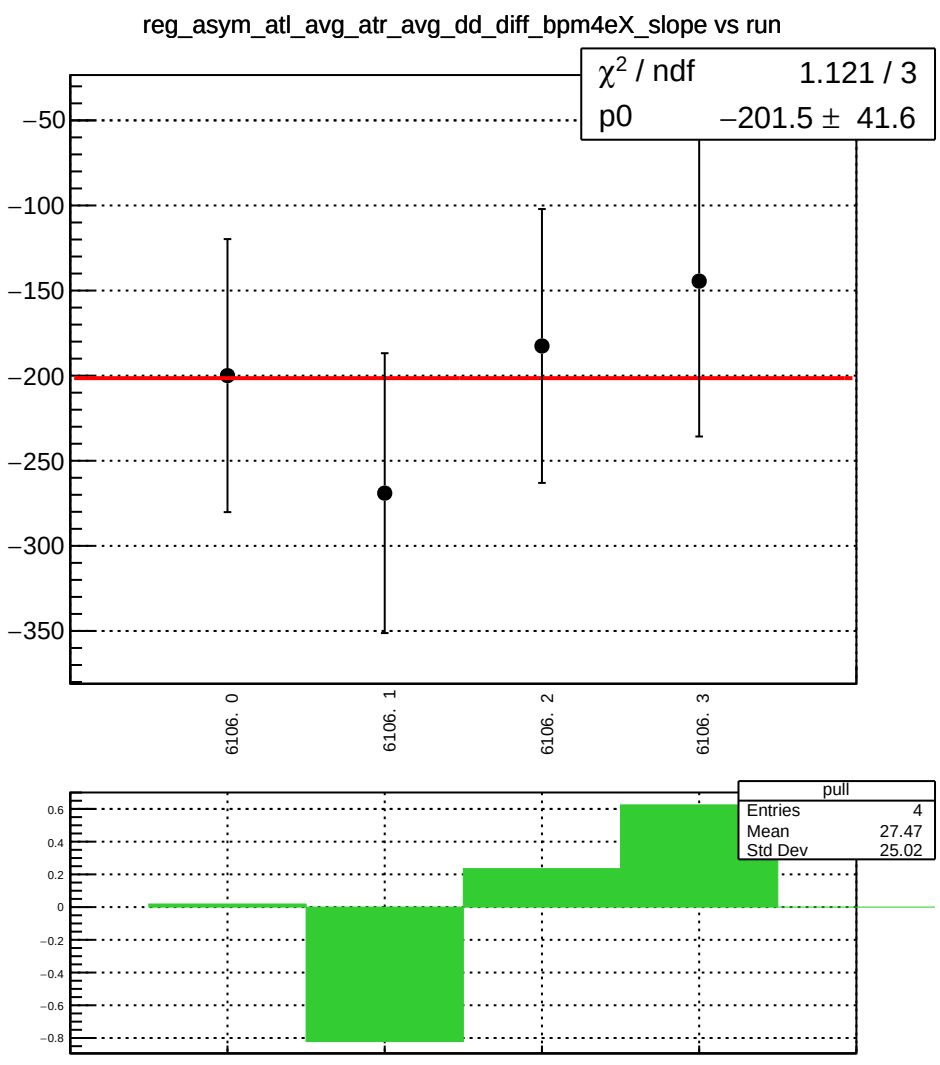

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.07 / 3
p0 38.37 ± 24.15
120
100
80
60
40
20
0
−20
−40
−60
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 36.36
Std Dev 34.03
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.01928
Std Dev 0.7191
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

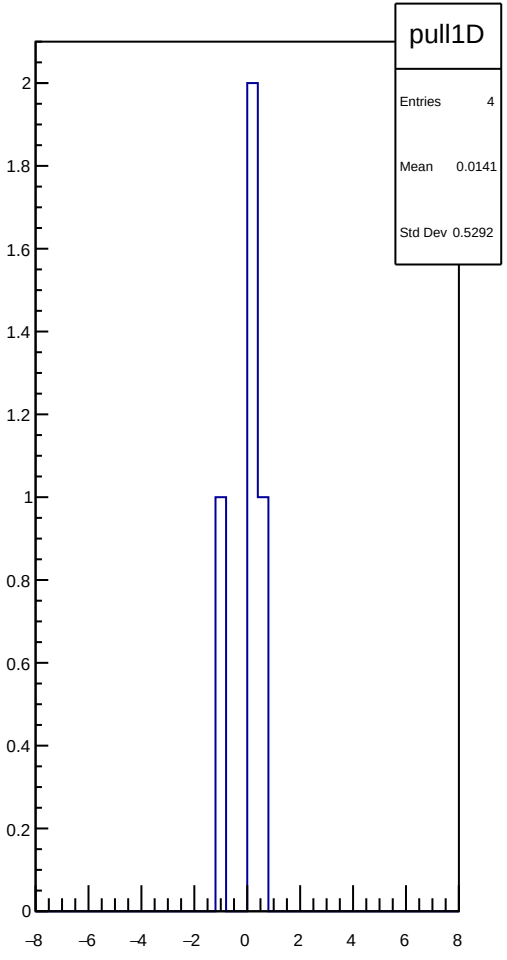

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 7.501 / 3
p0 −68.42 ± 1.715
−60
−65
−70
−75
−80
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 136.4
Std Dev 135.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

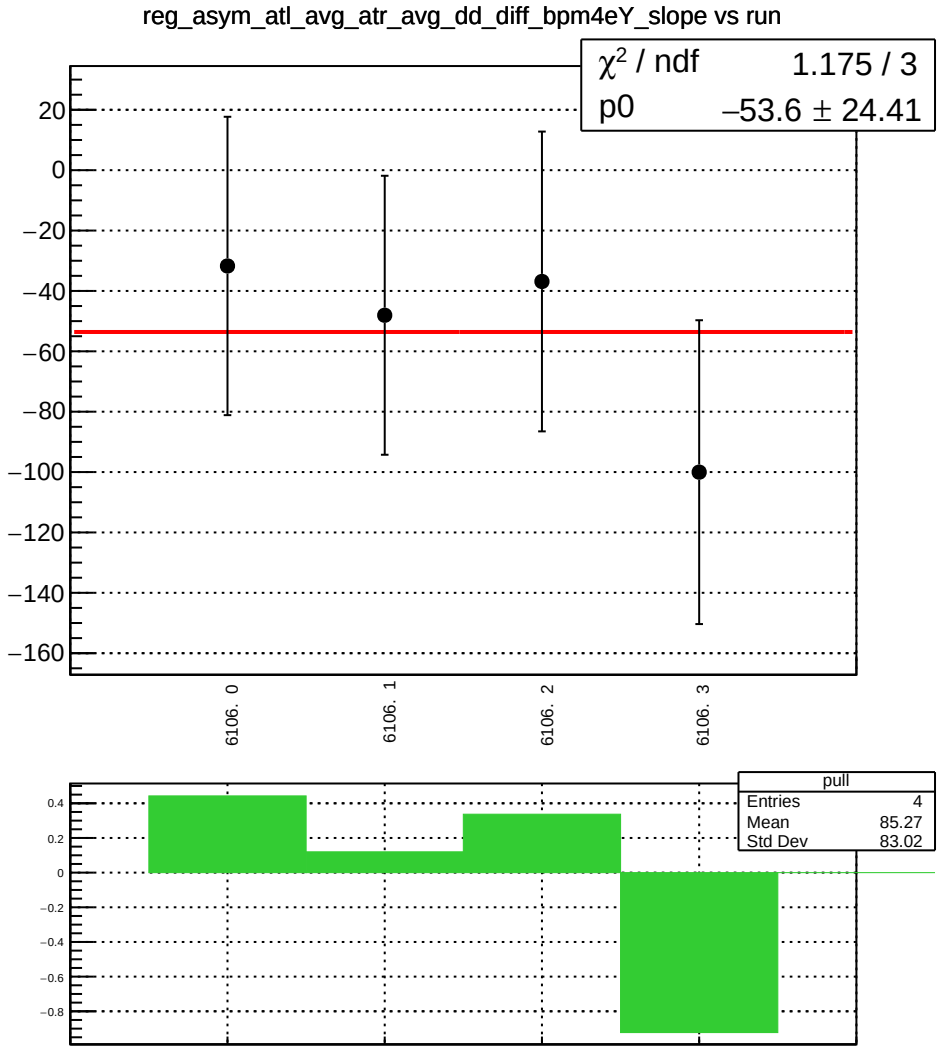

pull1D
Entries 4
Mean 0.003509
Std Dev 1.369
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

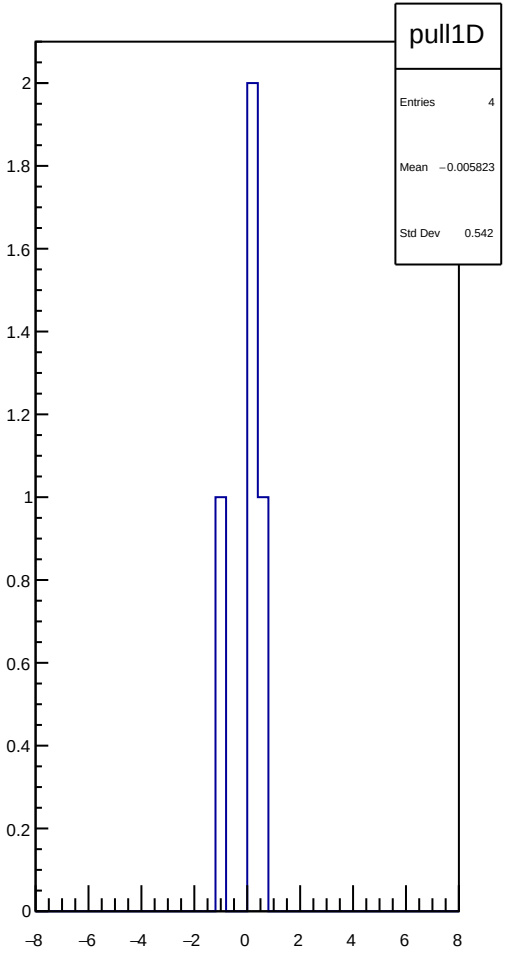

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.207 / 3
p0 142 ± 35.76
300
250
200
150
100
50
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 28.13
Std Dev 25.59
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.01276
Std Dev 0.5491
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

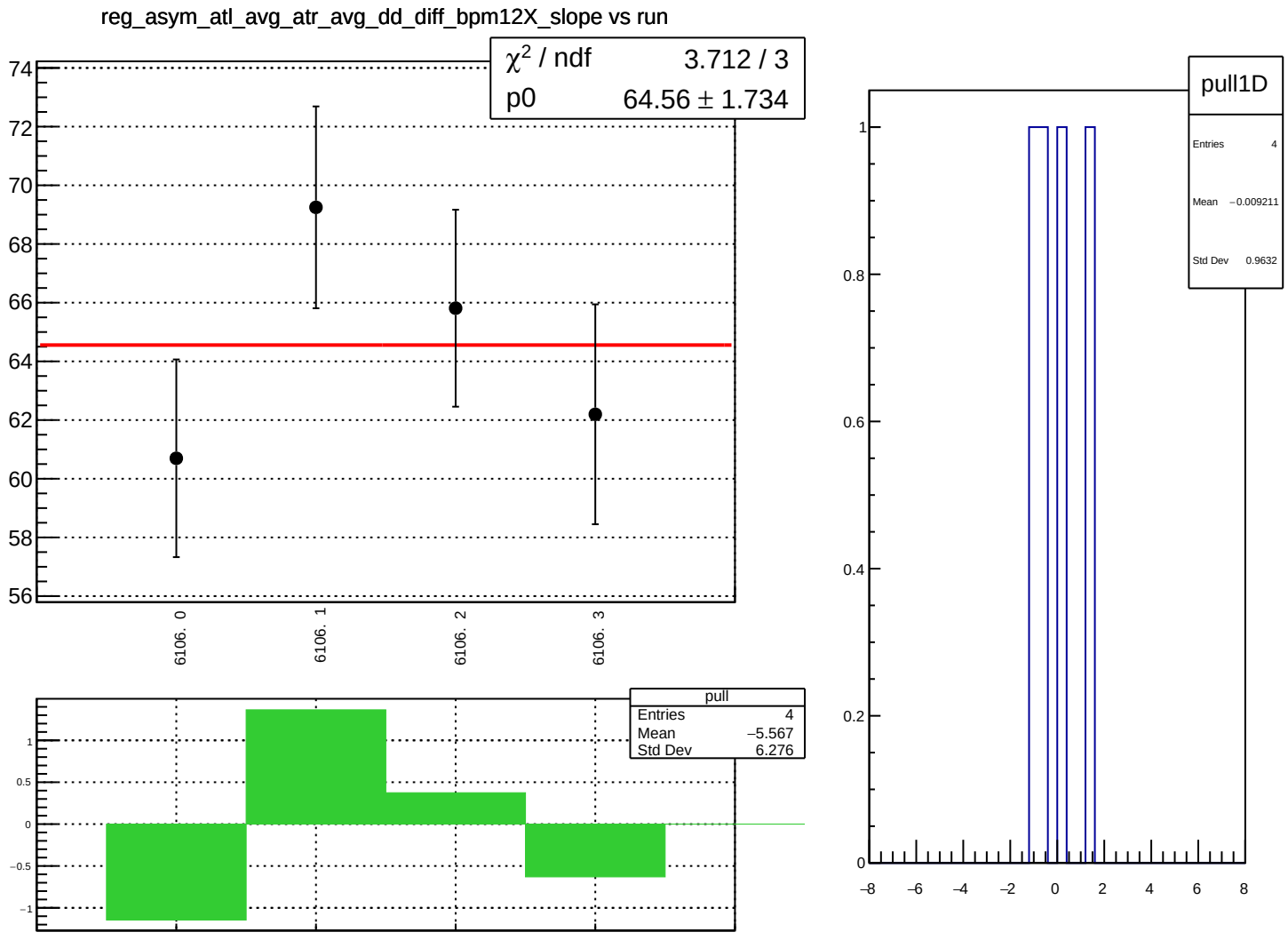

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.424 / 3
p0 17.48 ± 23.07
120
100
80
60
40
20
0
−20
−40
−60
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −194
Std Dev 196.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.002628
Std Dev 0.5967
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

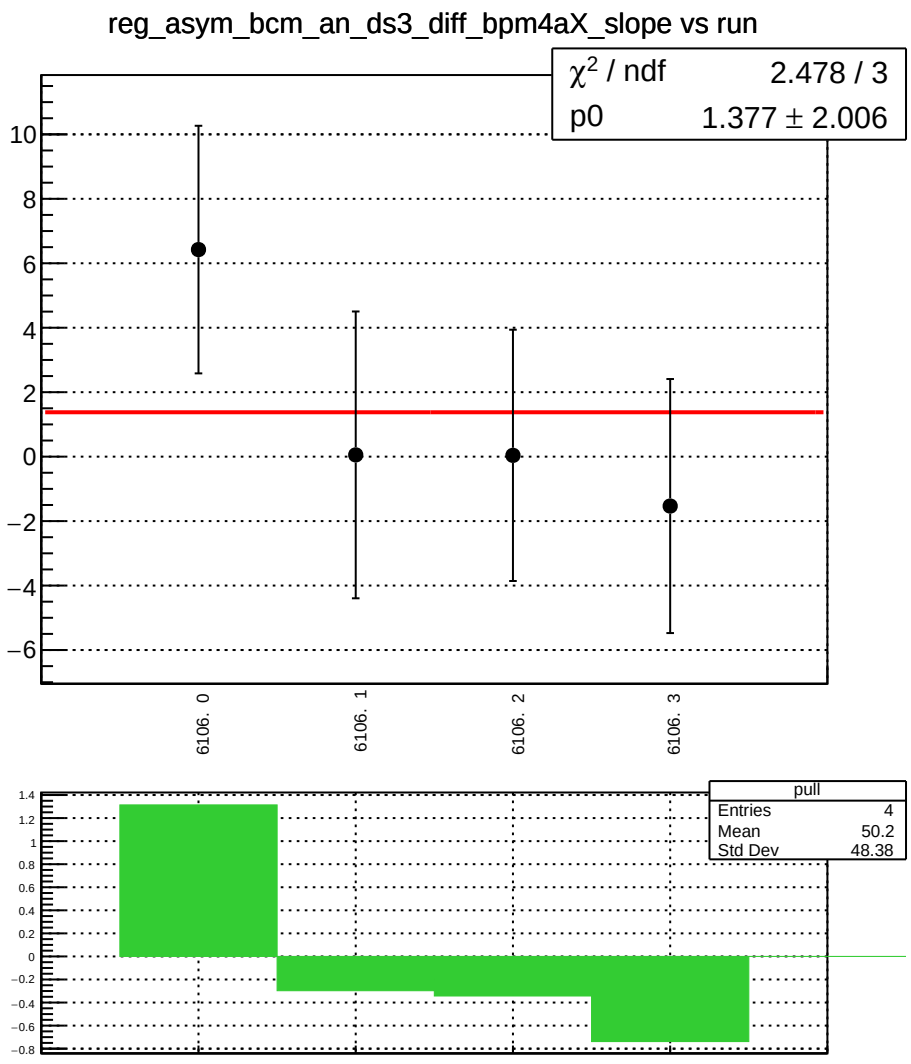

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.121 / 3
p0 −201.5 ± 41.6
−50
−100
−150
−200
−250
−300
−350
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 27.47
Std Dev 25.02
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

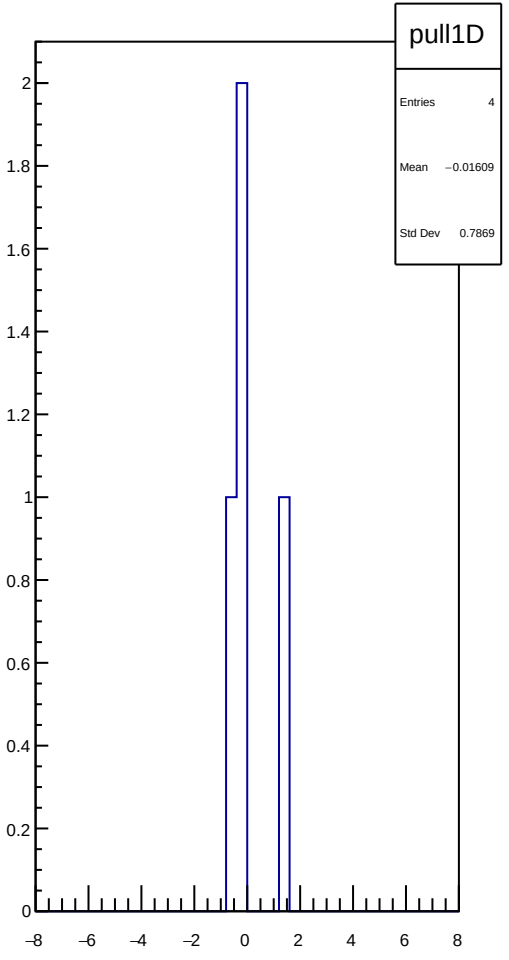

pull1D
Entries 4
Mean 0.0141
Std Dev 0.5292
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

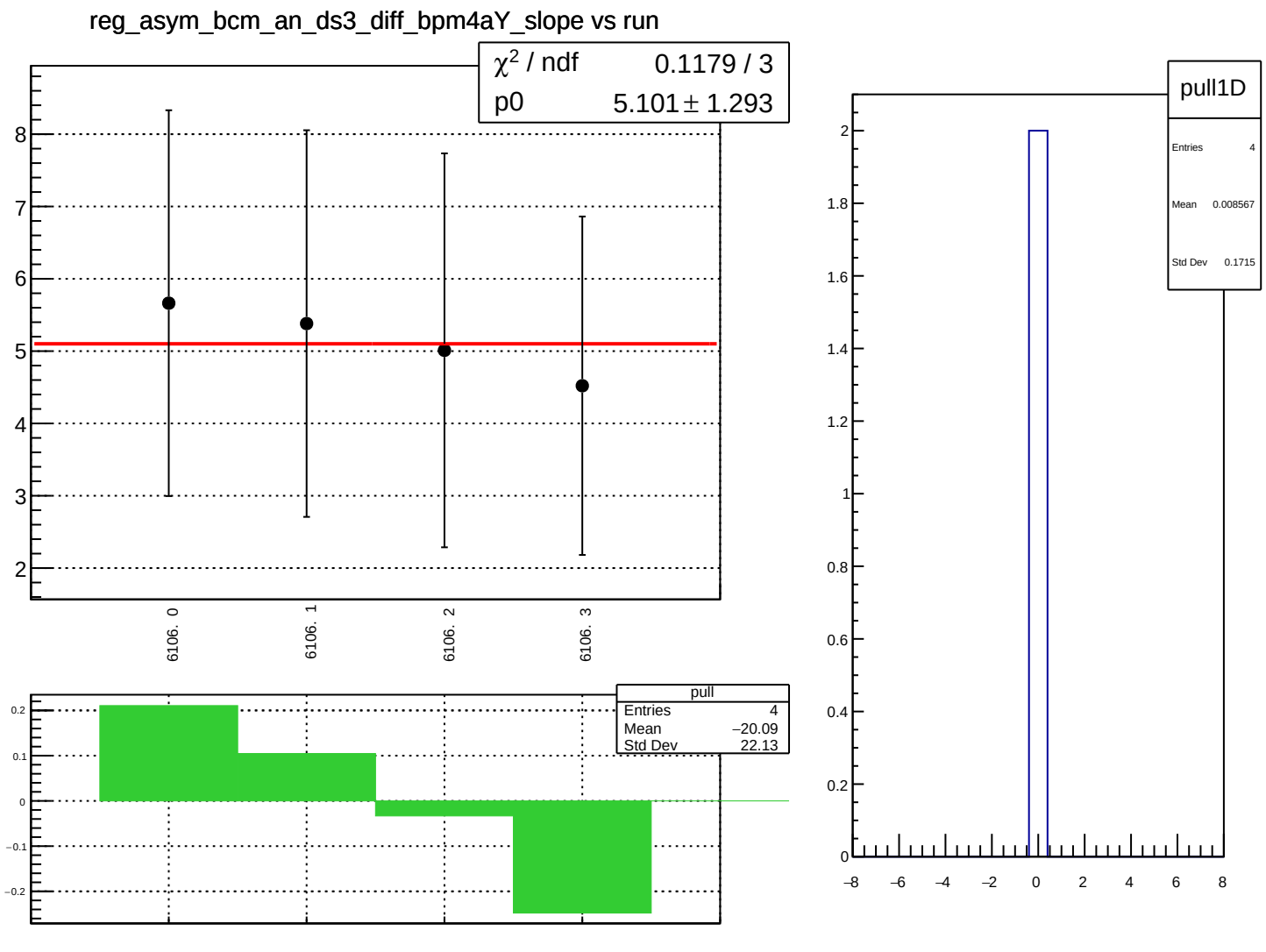

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.175 / 3
p0 −53.6 ± 24.41
20
0
−20
−40
−60
−80
−100
−120
−140
−160
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 85.27
Std Dev 83.02
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

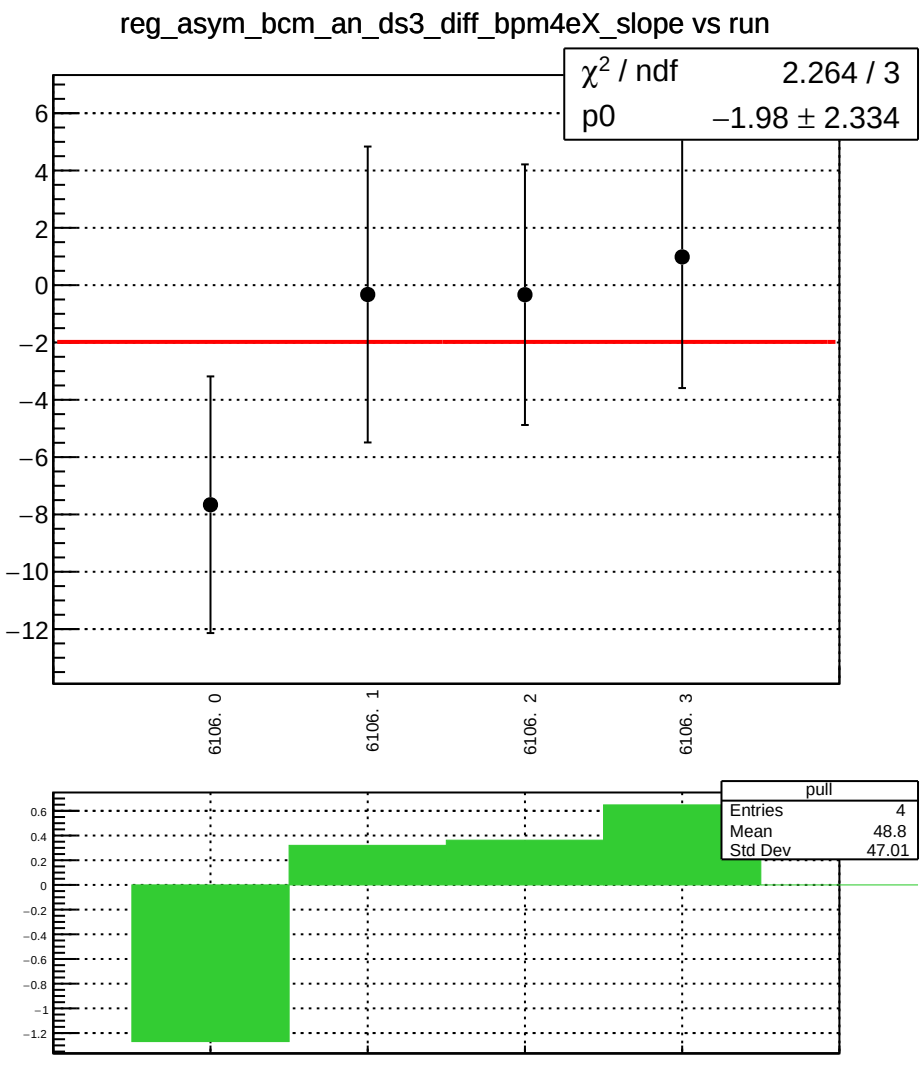

pull1D
Entries 4
Mean −0.005823
Std Dev 0.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

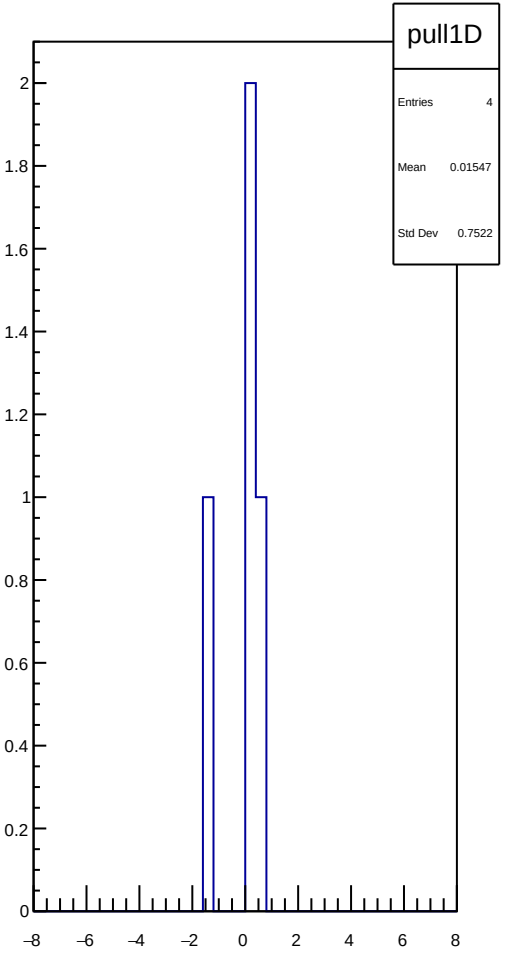

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 3.712 / 3
p0 64.56 ± 1.734
74
72
70
68
66
64
62
60
58
56
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −5.567
Std Dev 6.276
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.009211
Std Dev 0.9632
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

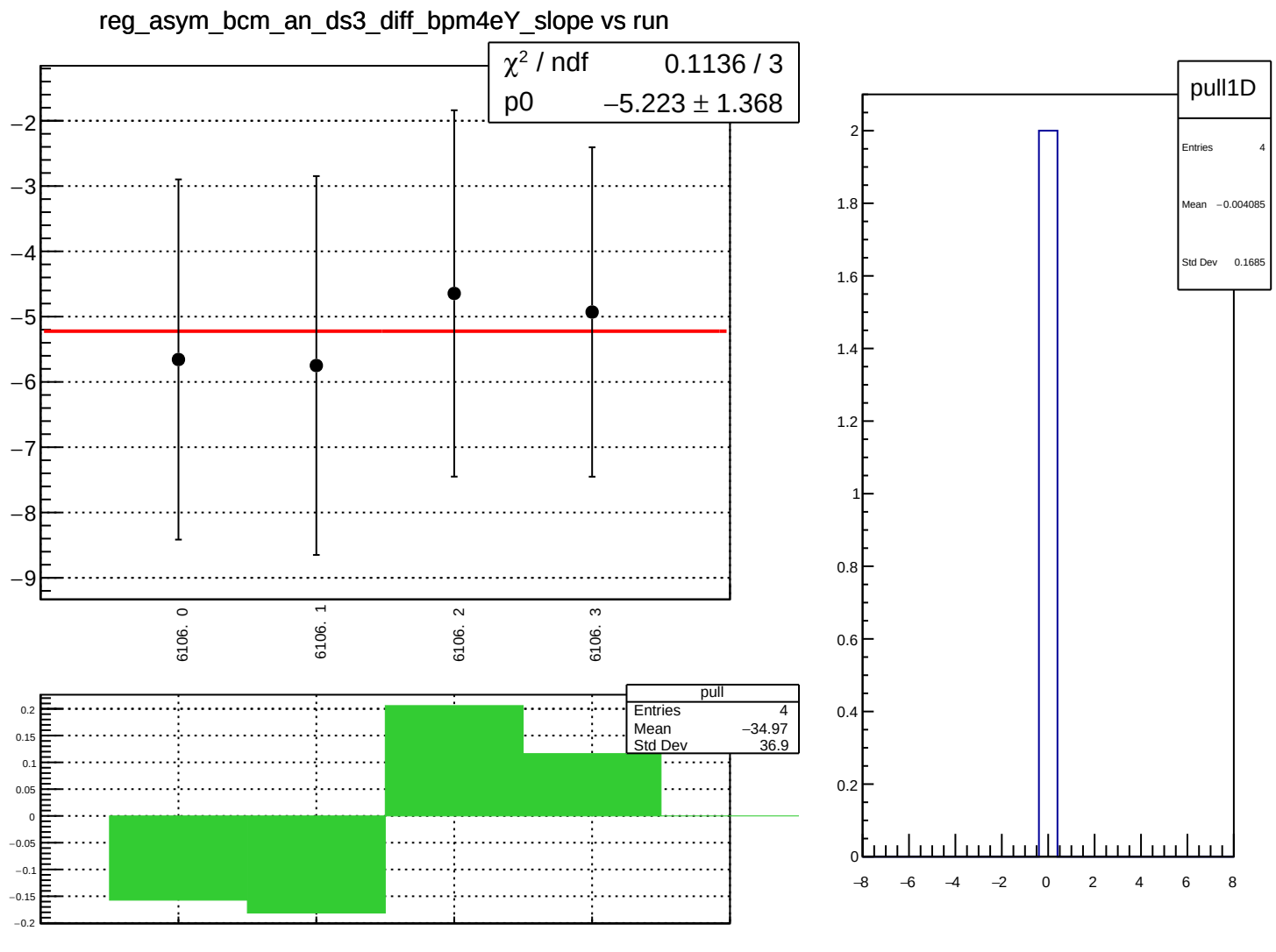

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 2.478 / 3
p0 1.377 ± 2.006
10
8
6
4
2
0
−2
−4
−6
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 50.2
Std Dev 48.38
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

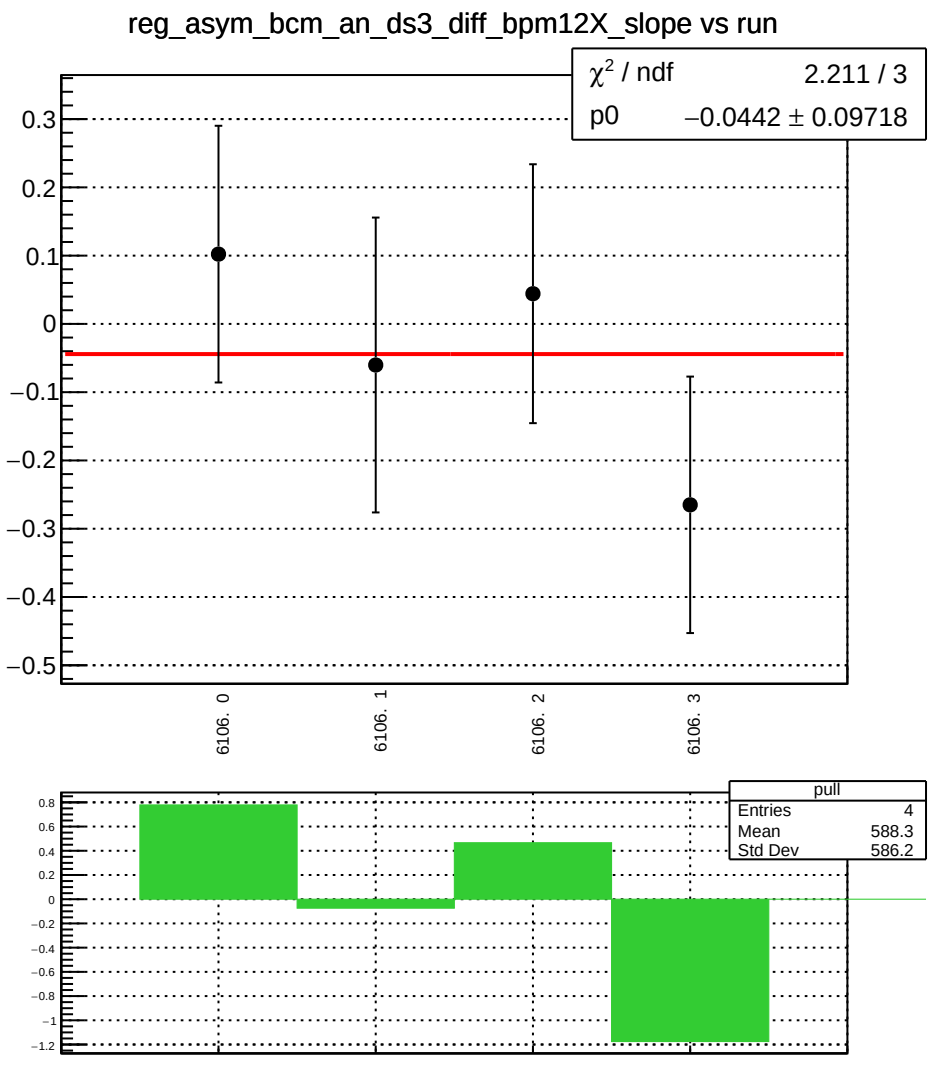

pull1D
Entries 4
Mean −0.01609
Std Dev 0.7869
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

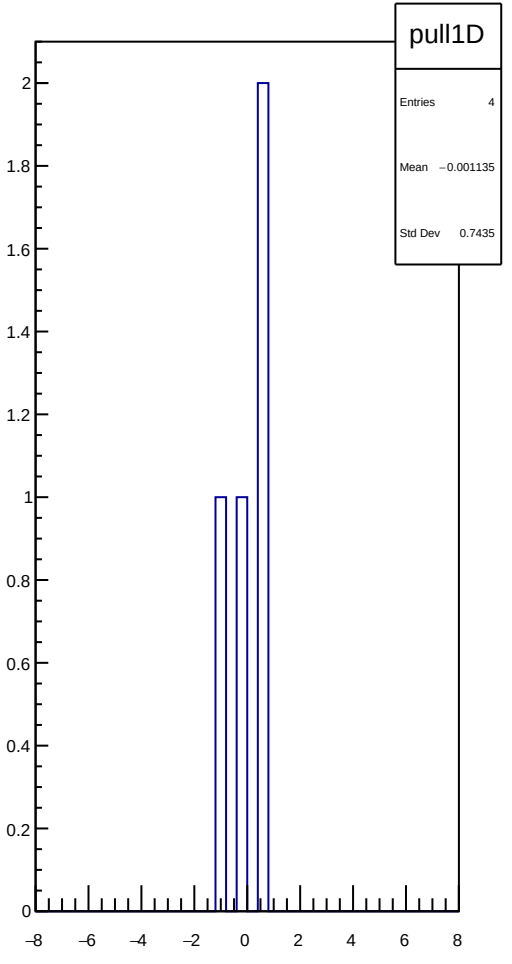

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 0.1179 / 3
p0 5.101 ± 1.293
8
7
6
5
4
3
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −20.09
Std Dev 22.13
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.008567
Std Dev 0.1715
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

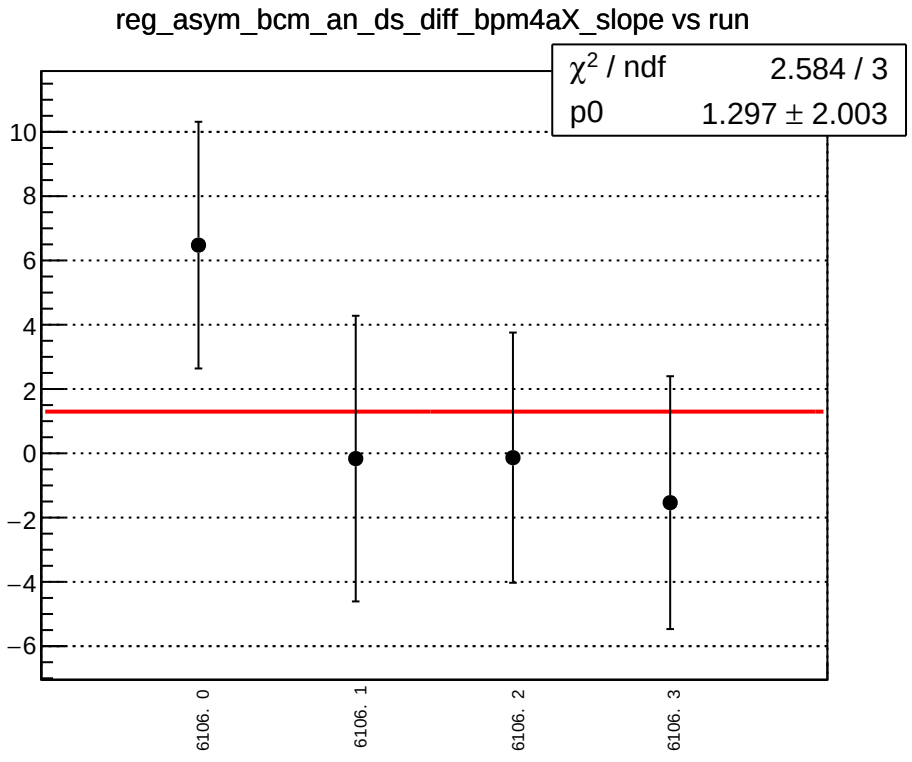

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2.264 / 3
p0 −1.98 ± 2.334
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 48.8
Std Dev 47.01

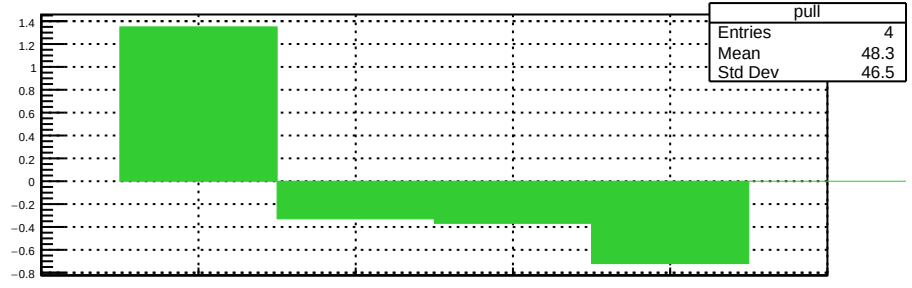

pull1D
Entries 4
Mean 0.01547
Std Dev 0.7522

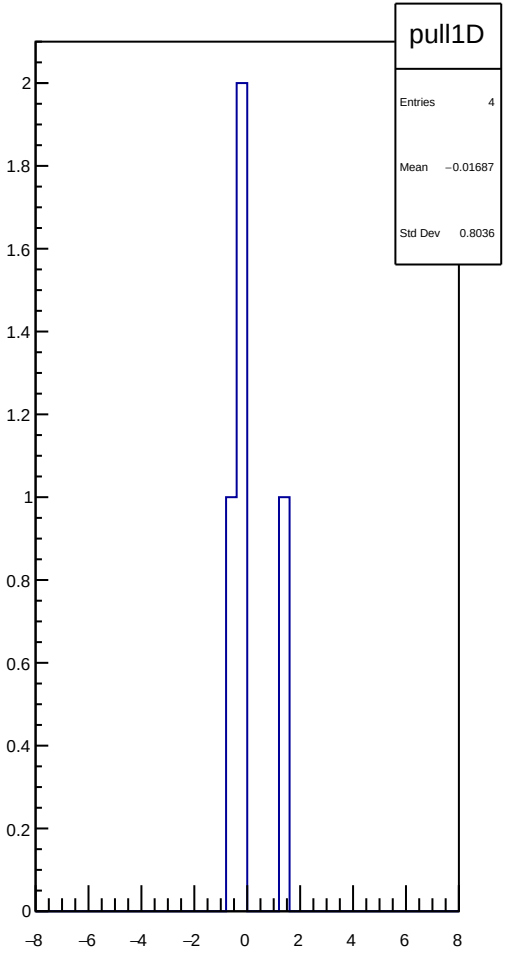

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 0.1136 / 3
p0 −5.223 ± 1.368
−2
−3
−4
−5
−6
−7
−8
−9
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −34.97
Std Dev 36.9
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 4
Mean −0.004085
Std Dev 0.1685
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

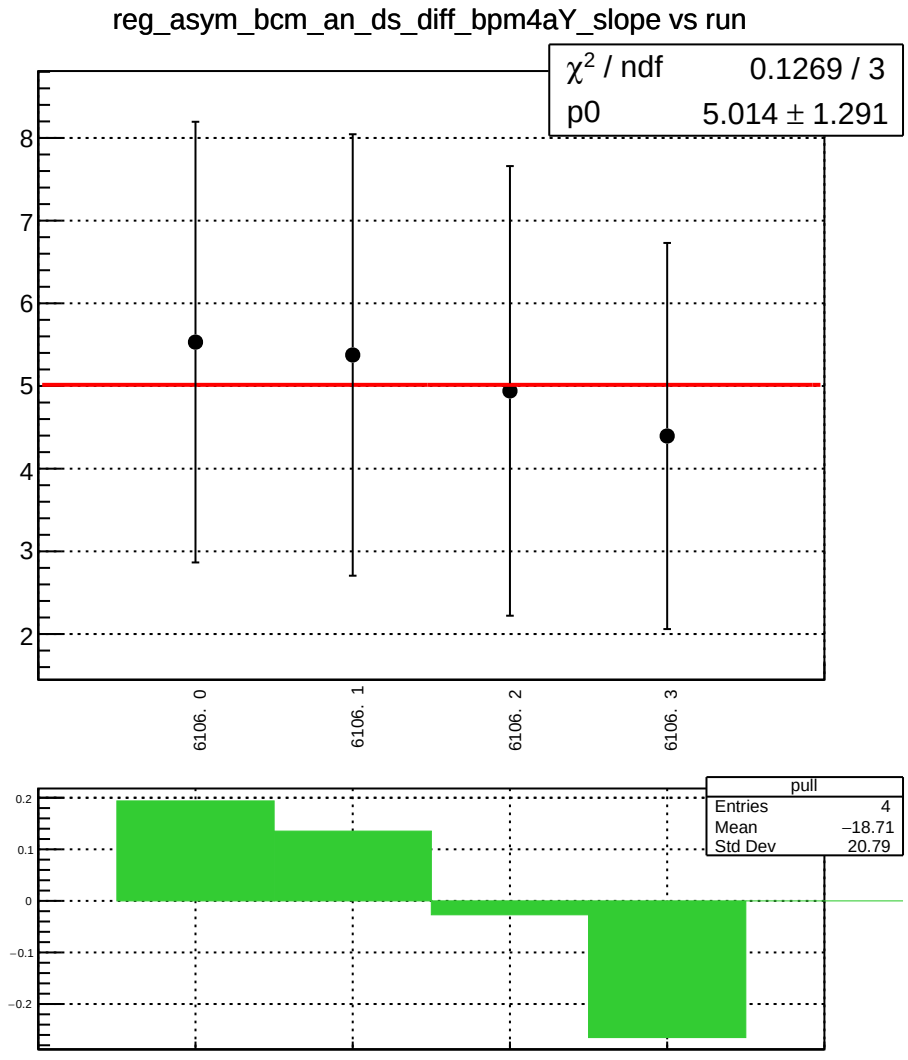

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 2.211 / 3
p0 −0.0442 ± 0.09718
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 588.3
Std Dev 586.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

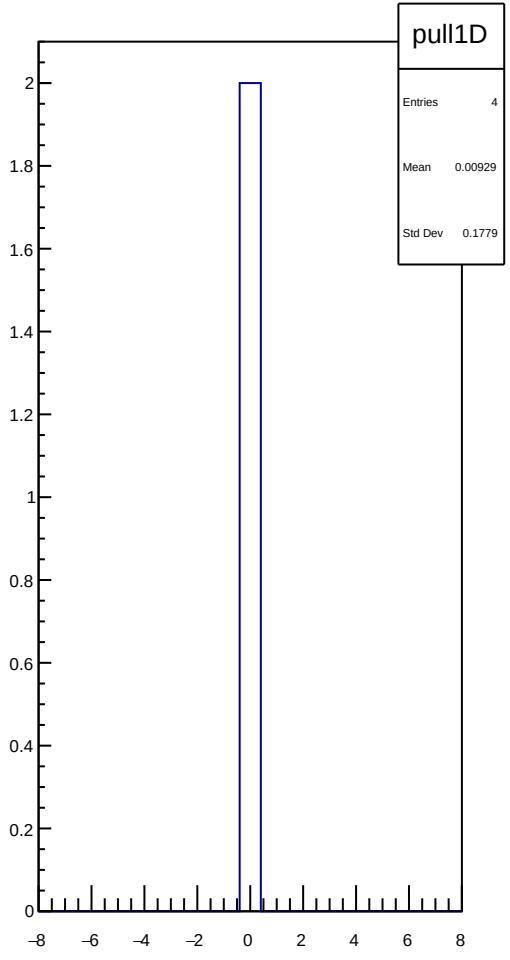

pull1D
Entries 4
Mean −0.001135
Std Dev 0.7435
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

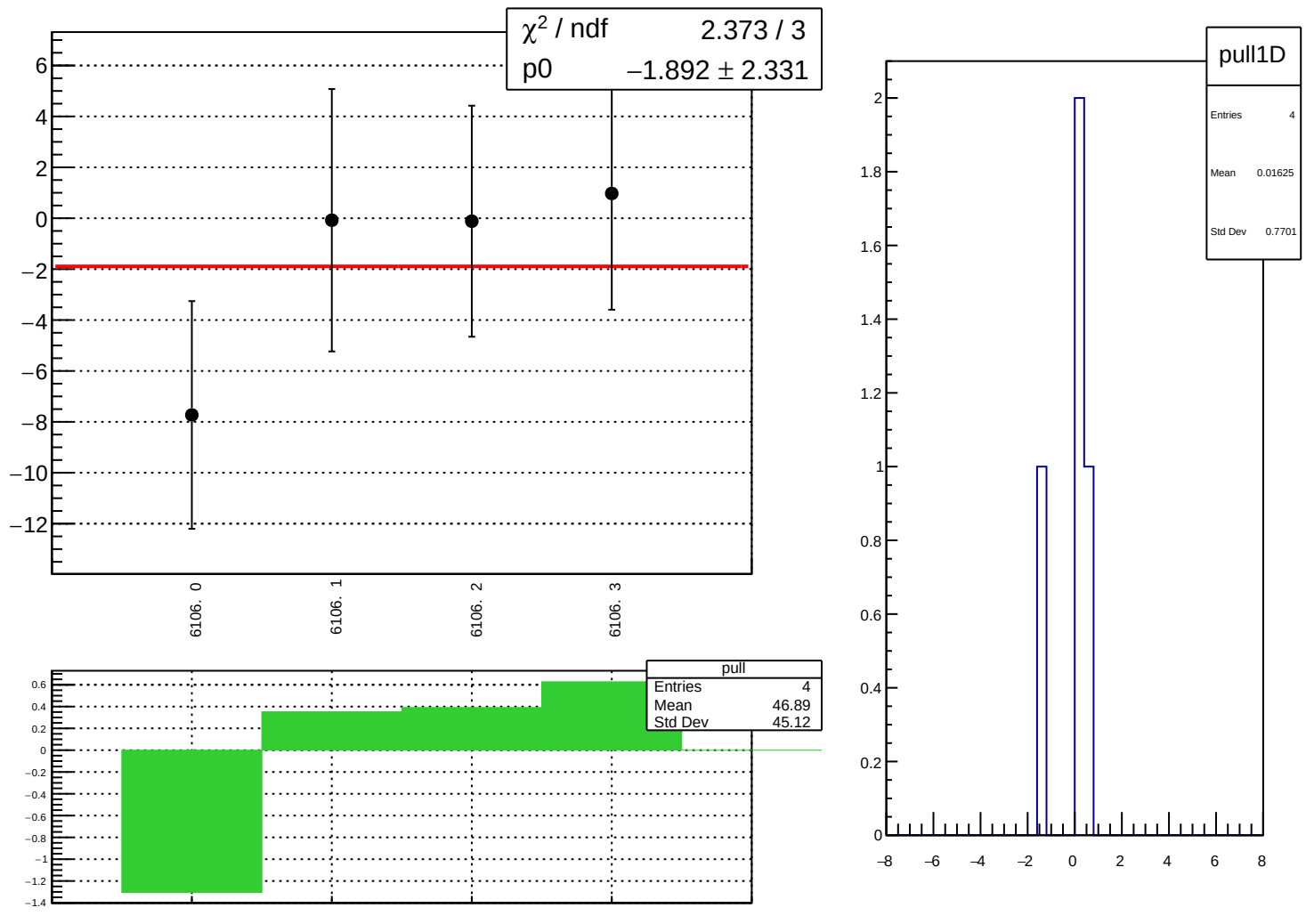

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 2.584 / 3
p0 1.297 ± 2.003
10
8
6
4
2
0
−2
−4
−6
6106. 0
6106. 1
6106. 2
6106. 3

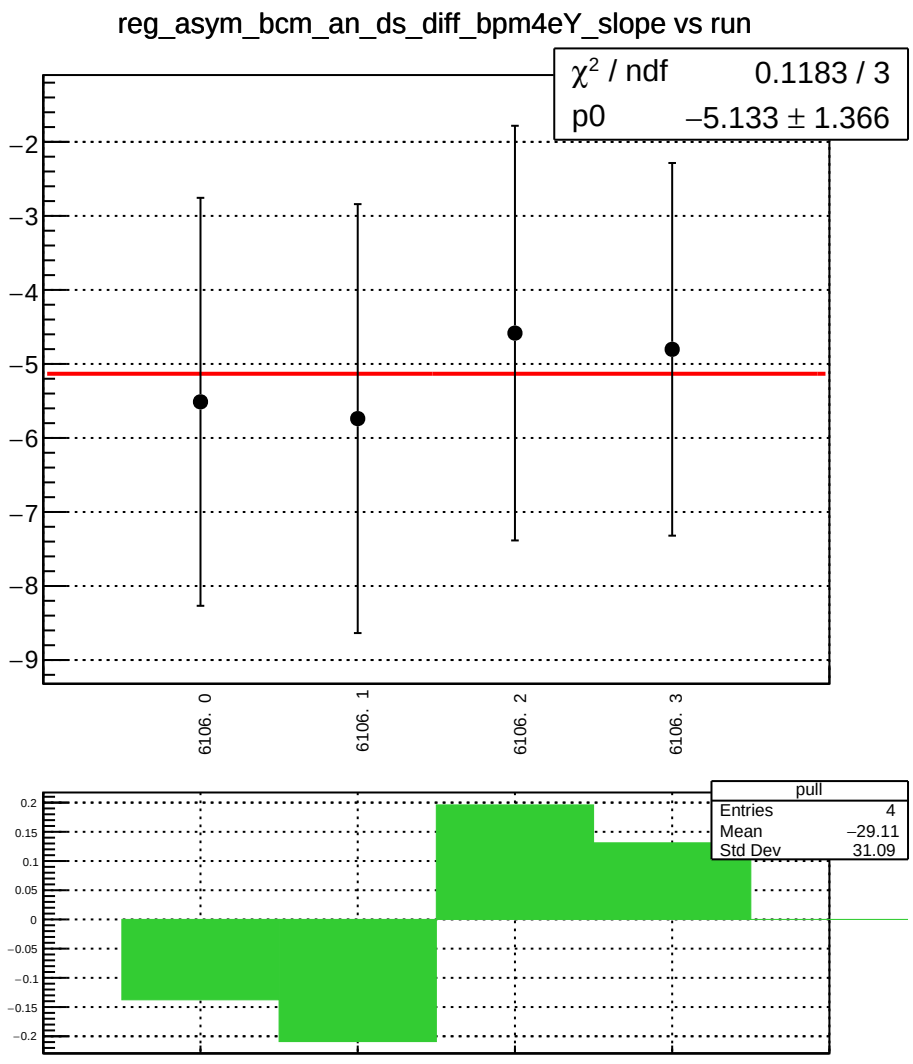

pull
Entries 4
Mean 48.3
Std Dev 46.5
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

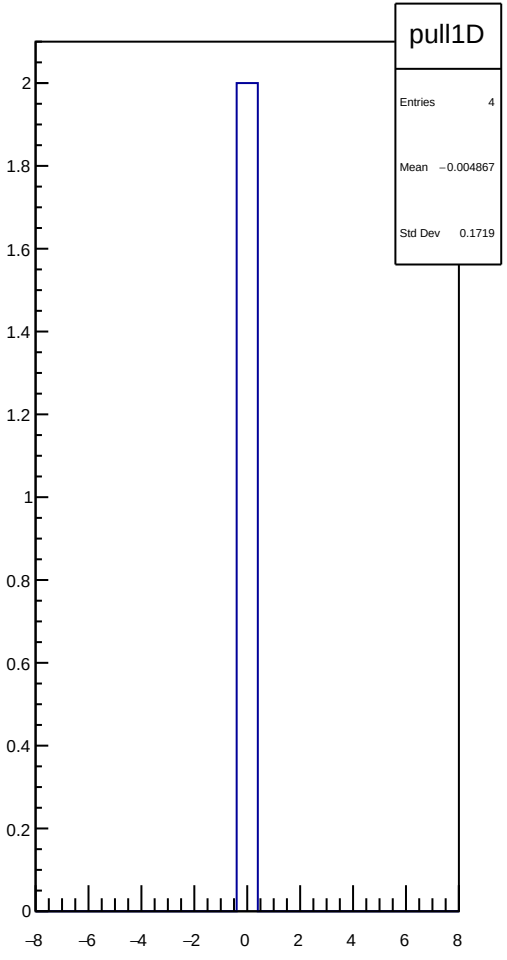

pull1D
Entries 4
Mean −0.01687
Std Dev 0.8036
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

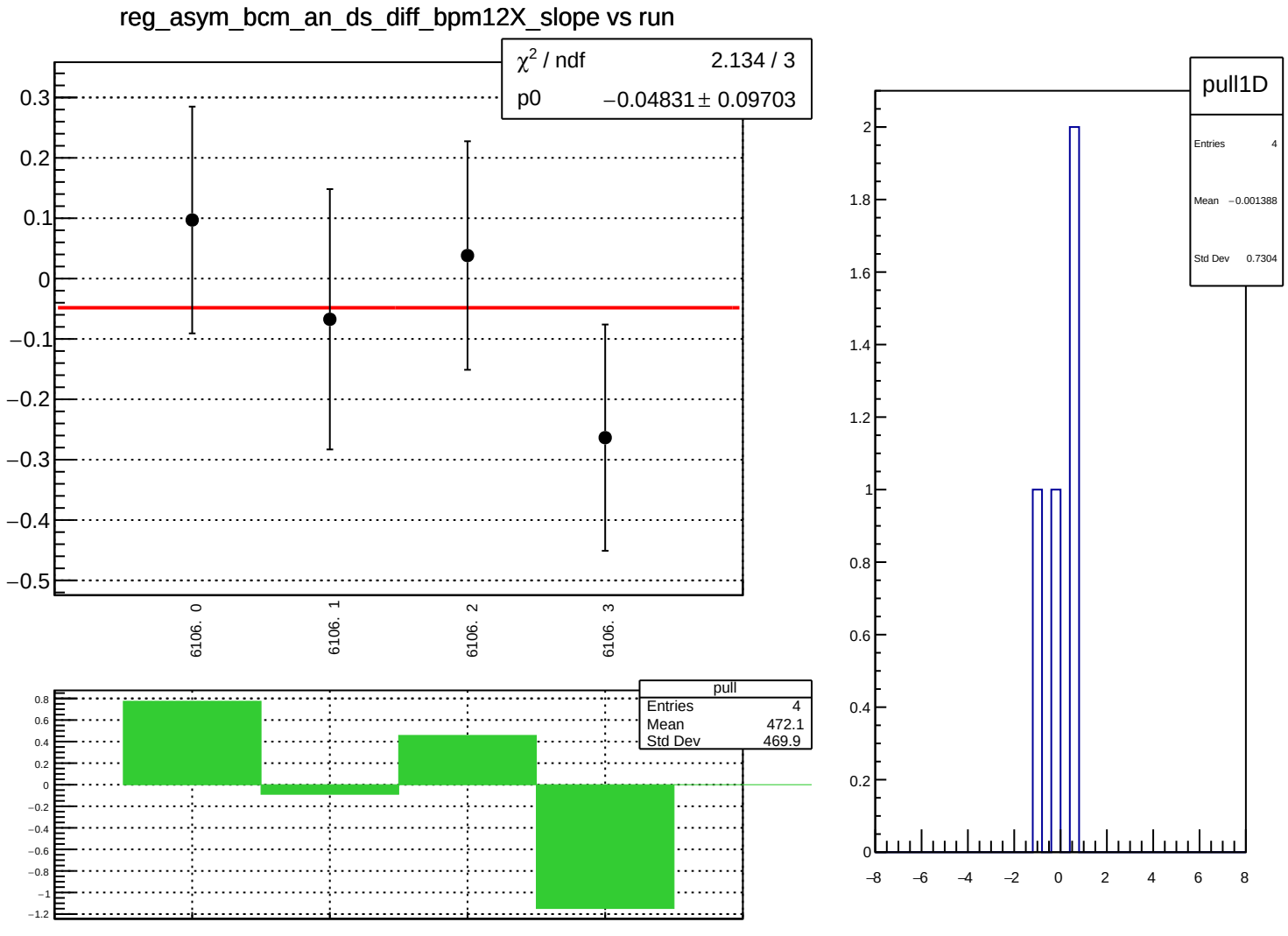

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 0.1269 / 3
p0 5.014 ± 1.291
8
7
6
5
4
3
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −18.71
Std Dev 20.79
0.2
0.1
0
−0.1
−0.2

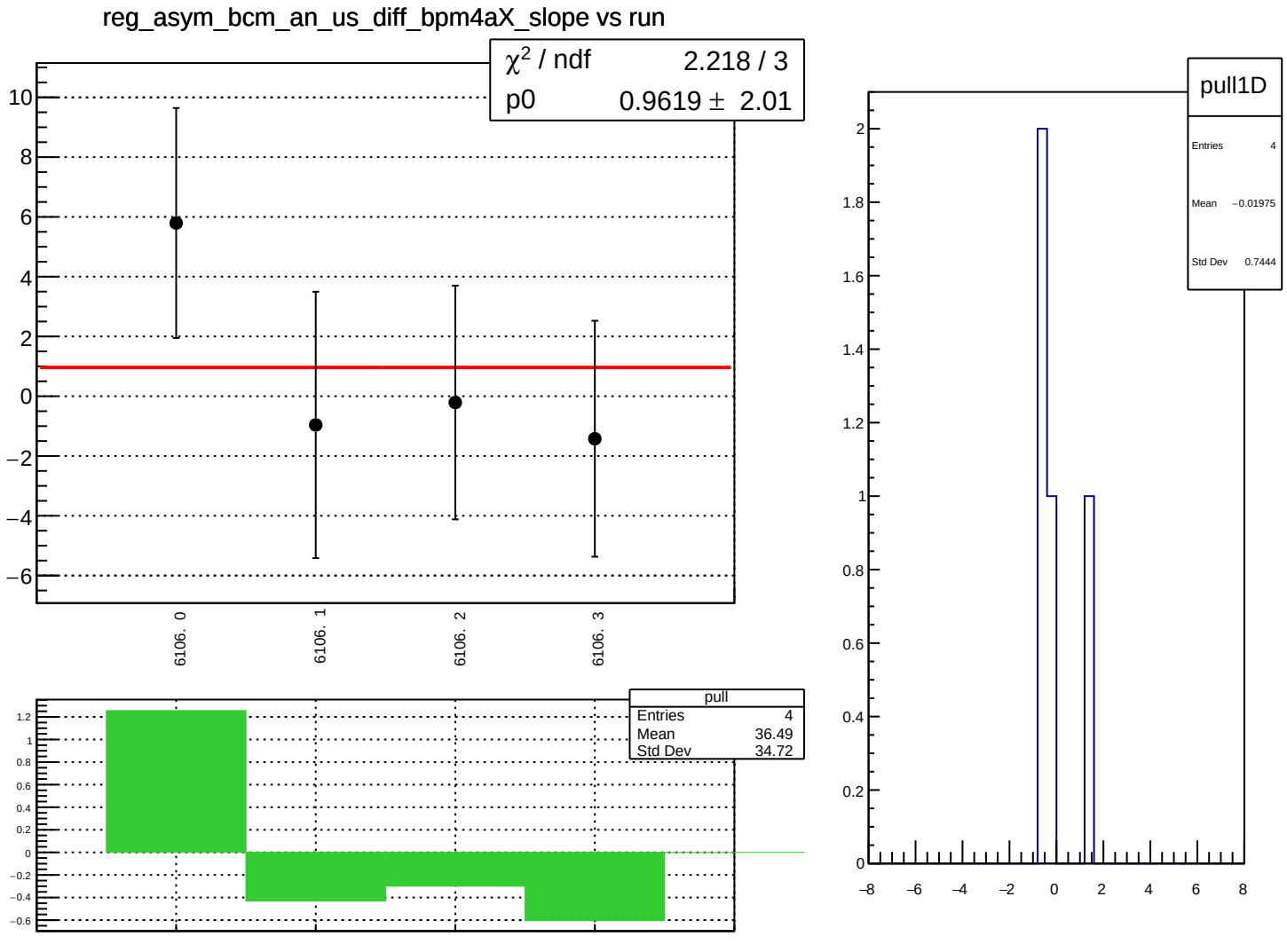

pull1D
Entries 4
Mean 0.00929
Std Dev 0.1779
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

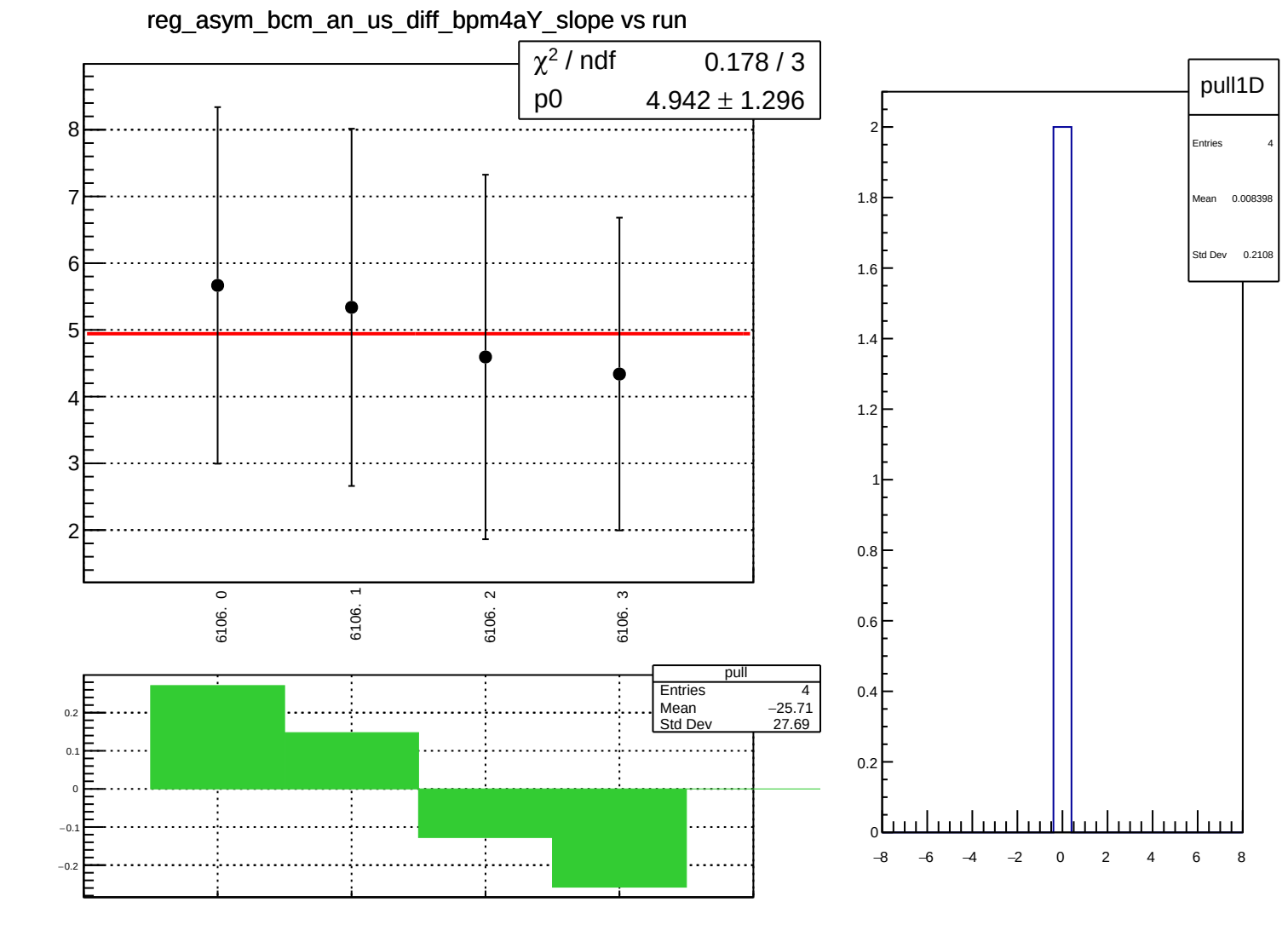

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2.373 / 3
p0 −1.892 ± 2.331
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 46.89
Std Dev 45.12
pull1D
Entries 4
Mean 0.01625
Std Dev 0.7701

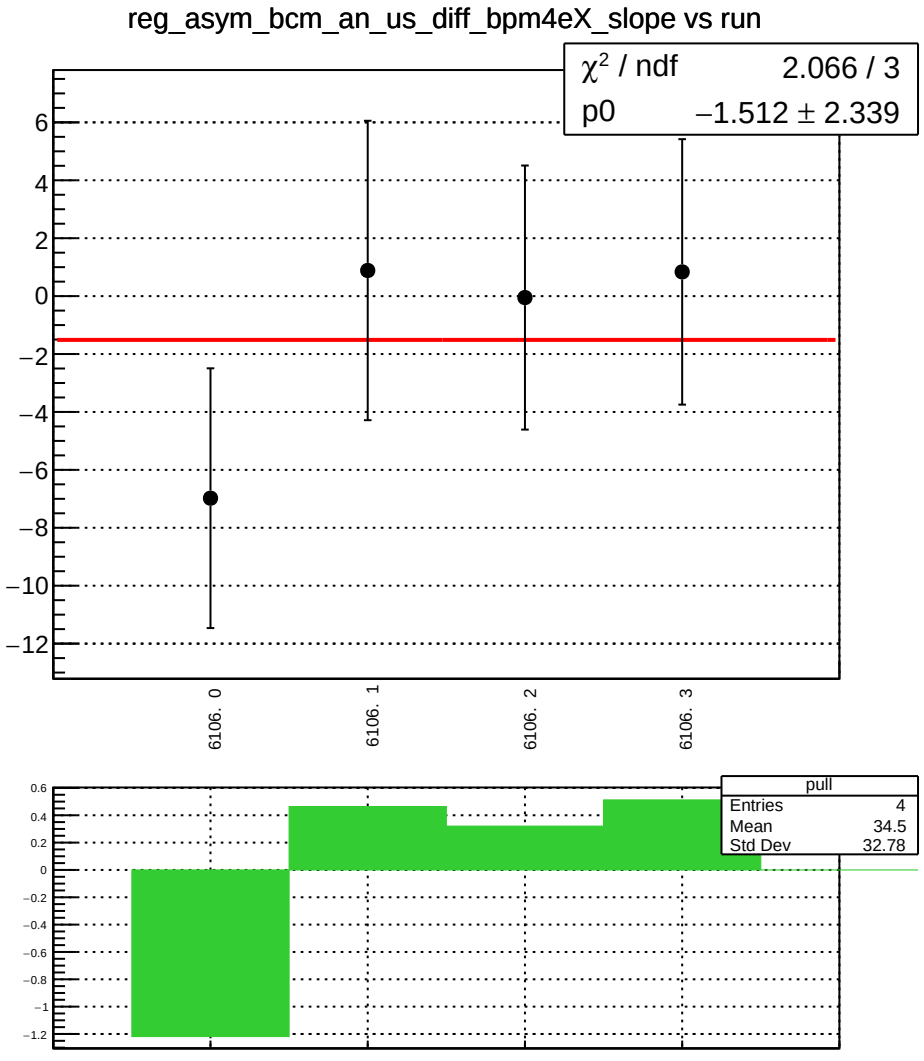

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 0.1183 / 3
p0 −5.133 ± 1.366
−2
−3
−4
−5
−6
−7
−8
−9
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −29.11
Std Dev 31.09
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

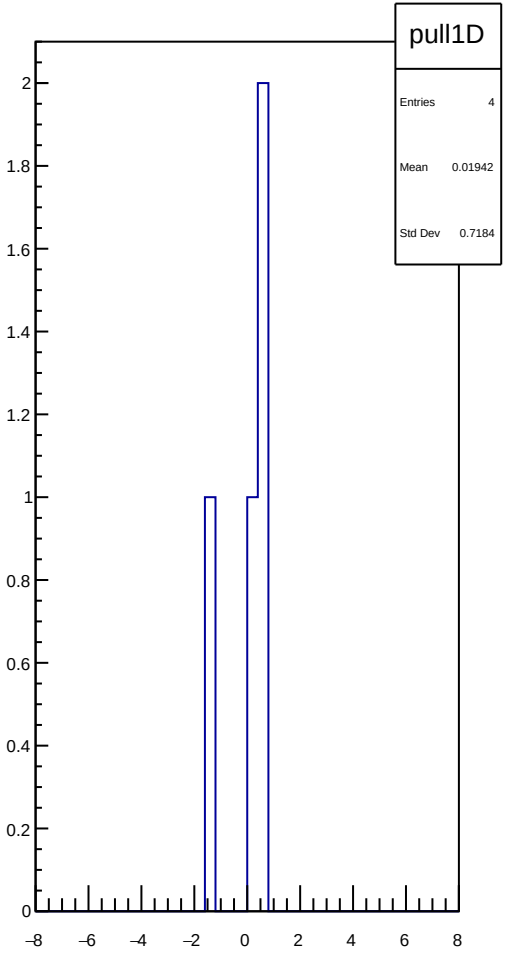

pull1D
Entries 4
Mean −0.004867
Std Dev 0.1719
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

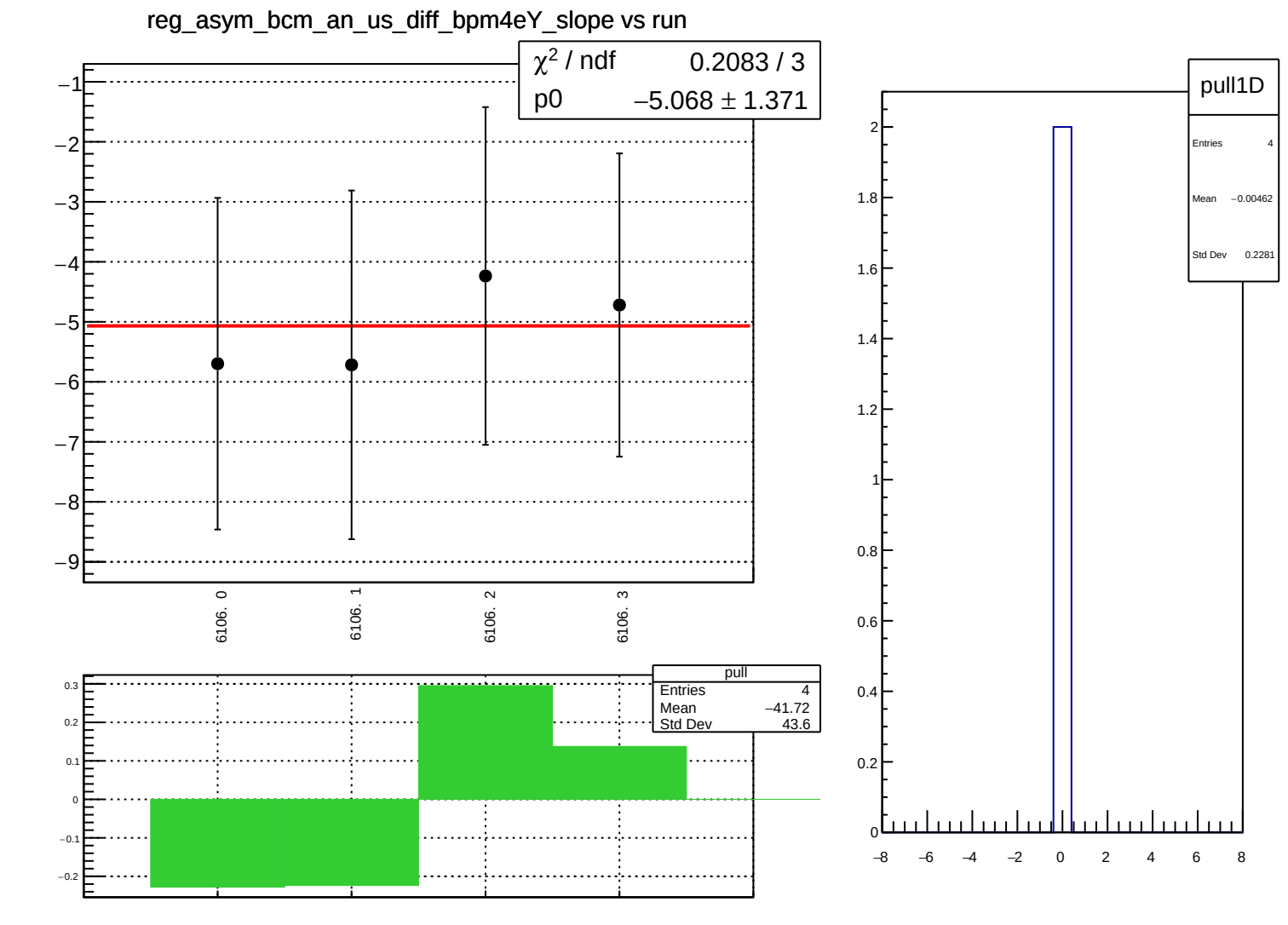

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 2.134 / 3
p0 −0.04831 ± 0.09703
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 472.1
Std Dev 469.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.001388
Std Dev 0.7304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

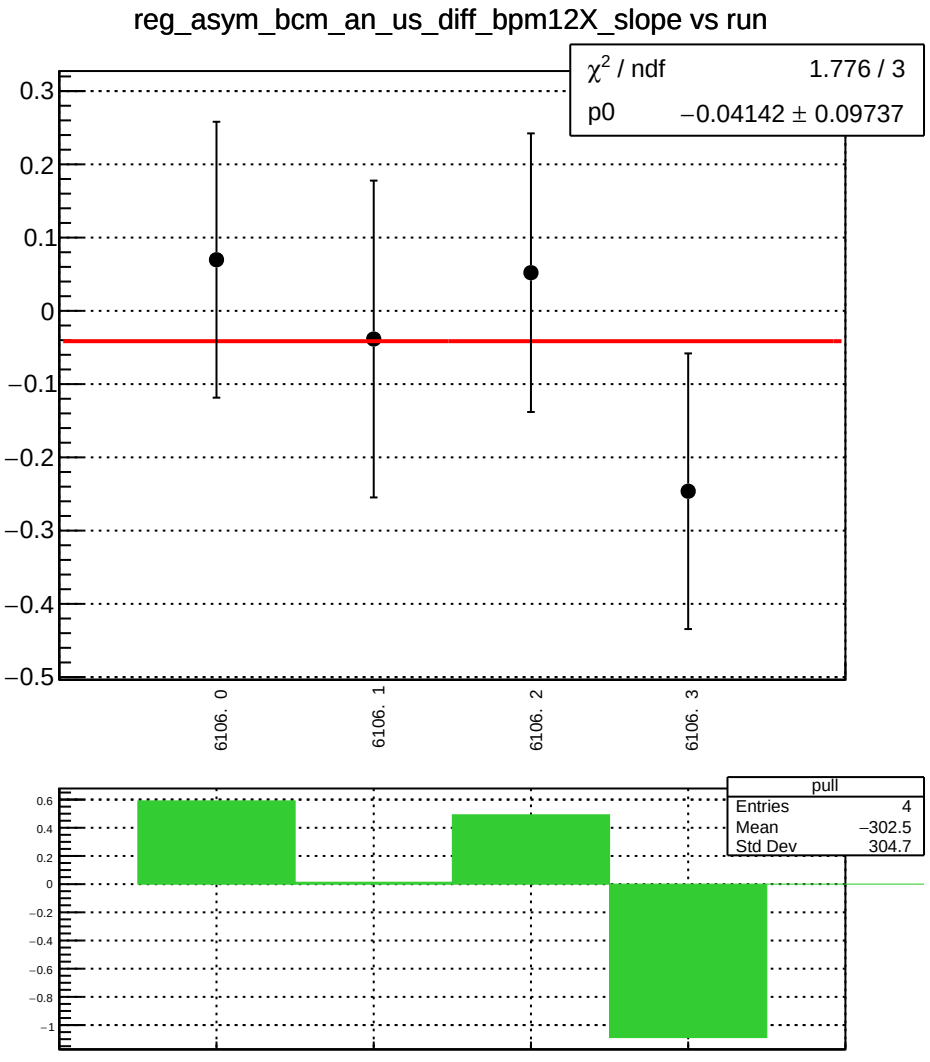

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 2.218 / 3
p0 0.9619 ± 2.01
10
8
6
4
2
0
−2
−4
−6
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 36.49
Std Dev 34.72
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.01975
Std Dev 0.7444
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

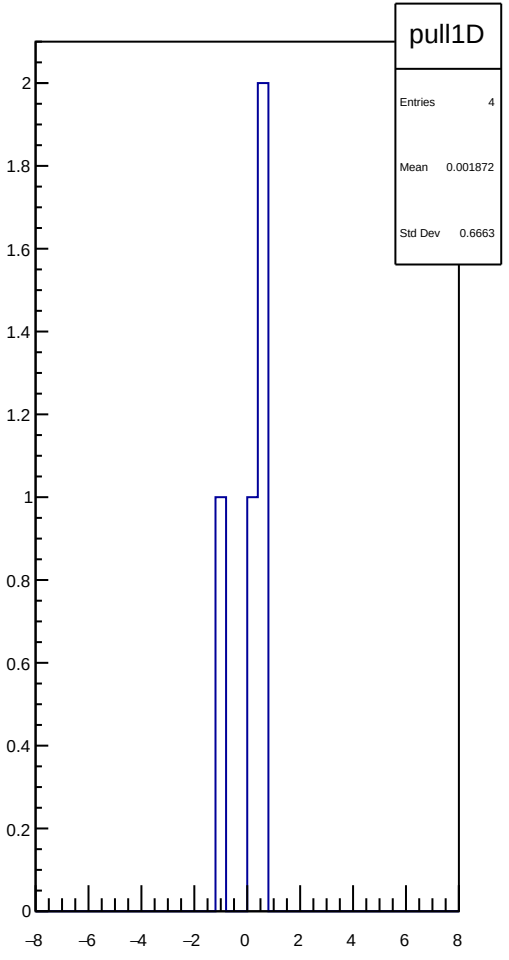

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 0.178 / 3
p0 4.942 ± 1.296
8
7
6
5
4
3
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −25.71
Std Dev 27.69
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.008398
Std Dev 0.2108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

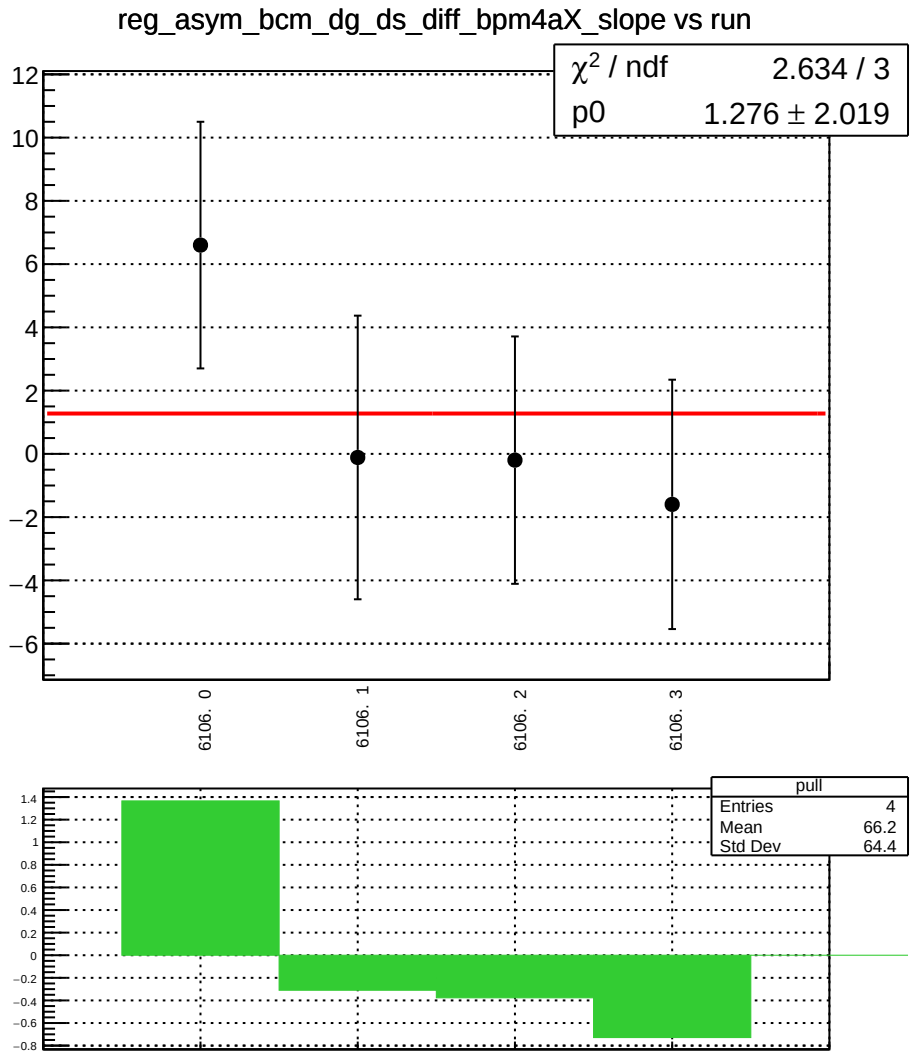

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2.066 / 3
p0 −1.512 ± 2.339
6
4
2
0
−2
−4
−6
−8
−10
−12
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 34.5
Std Dev 32.78
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

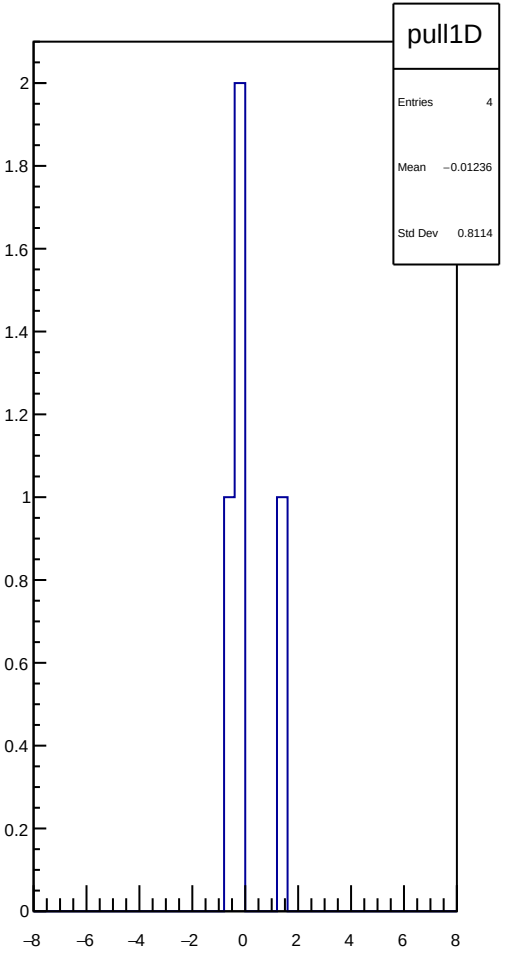

pull1D
Entries 4
Mean 0.01942
Std Dev 0.7184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

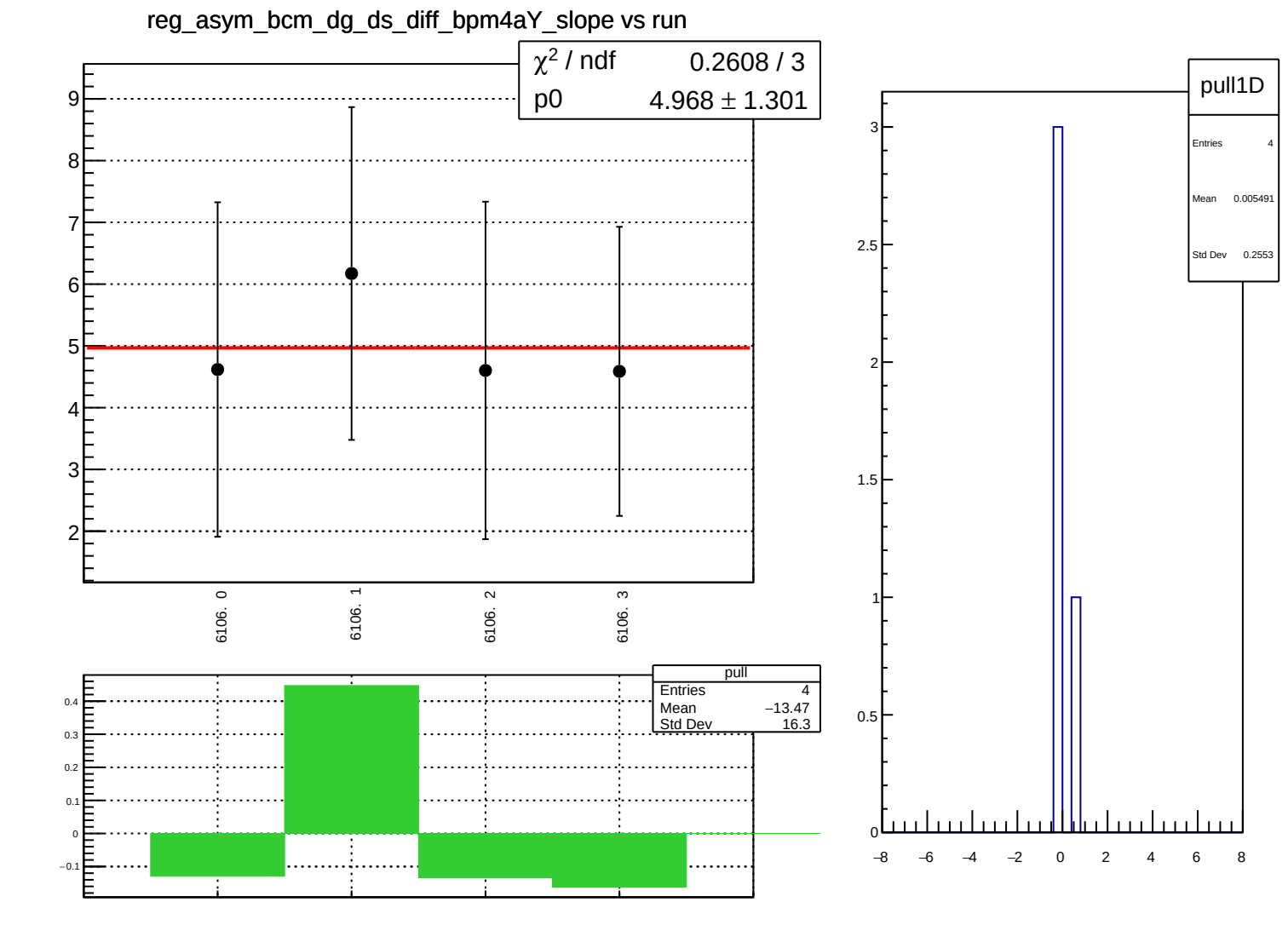

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 0.2083 / 3
p0 −5.068 ± 1.371
−1
−2
−3
−4
−5
−6
−7
−8
−9
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −41.72
Std Dev 43.6
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean −0.00462
Std Dev 0.2281
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

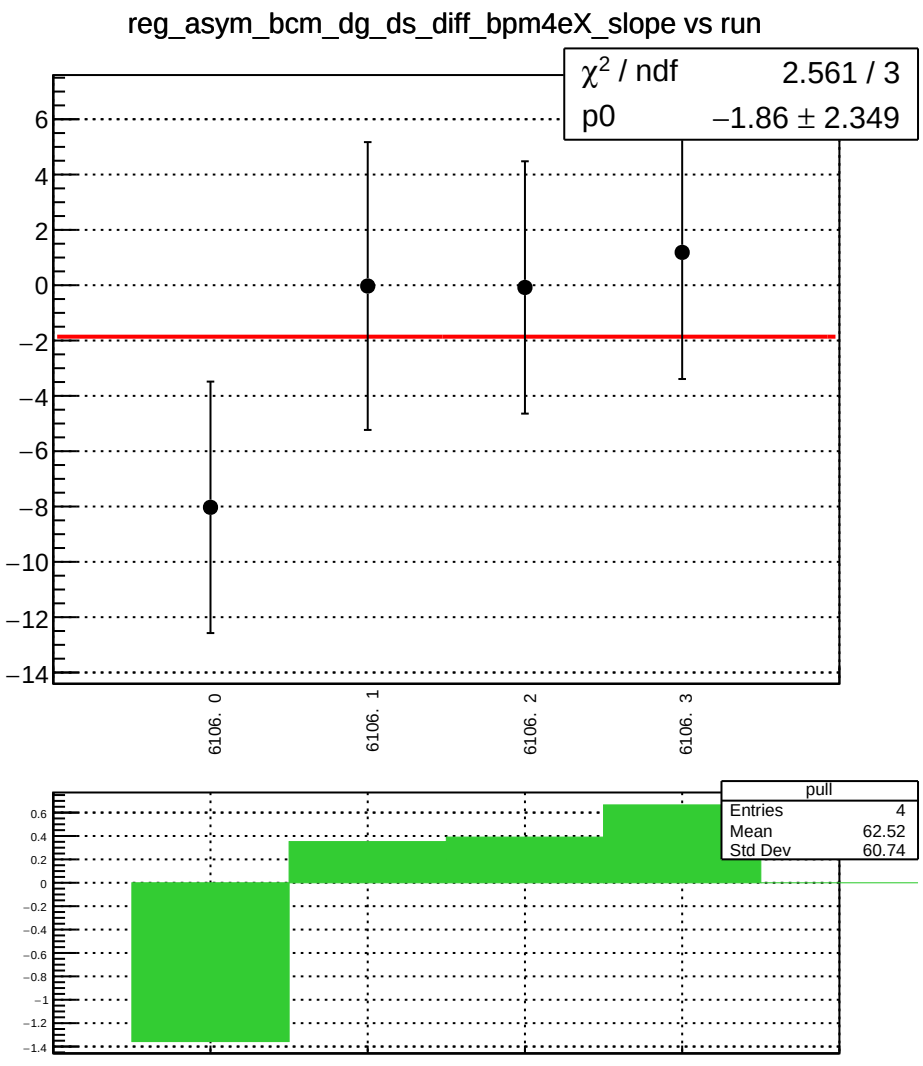

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 1.776 / 3
p0 −0.04142 ± 0.09737
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −302.5
Std Dev 304.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

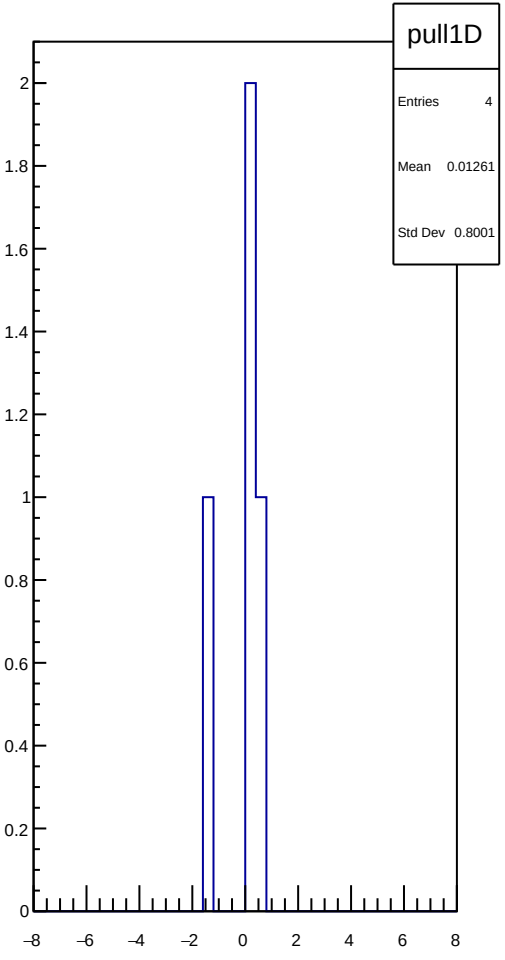

pull1D
Entries 4
Mean 0.001872
Std Dev 0.6663
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

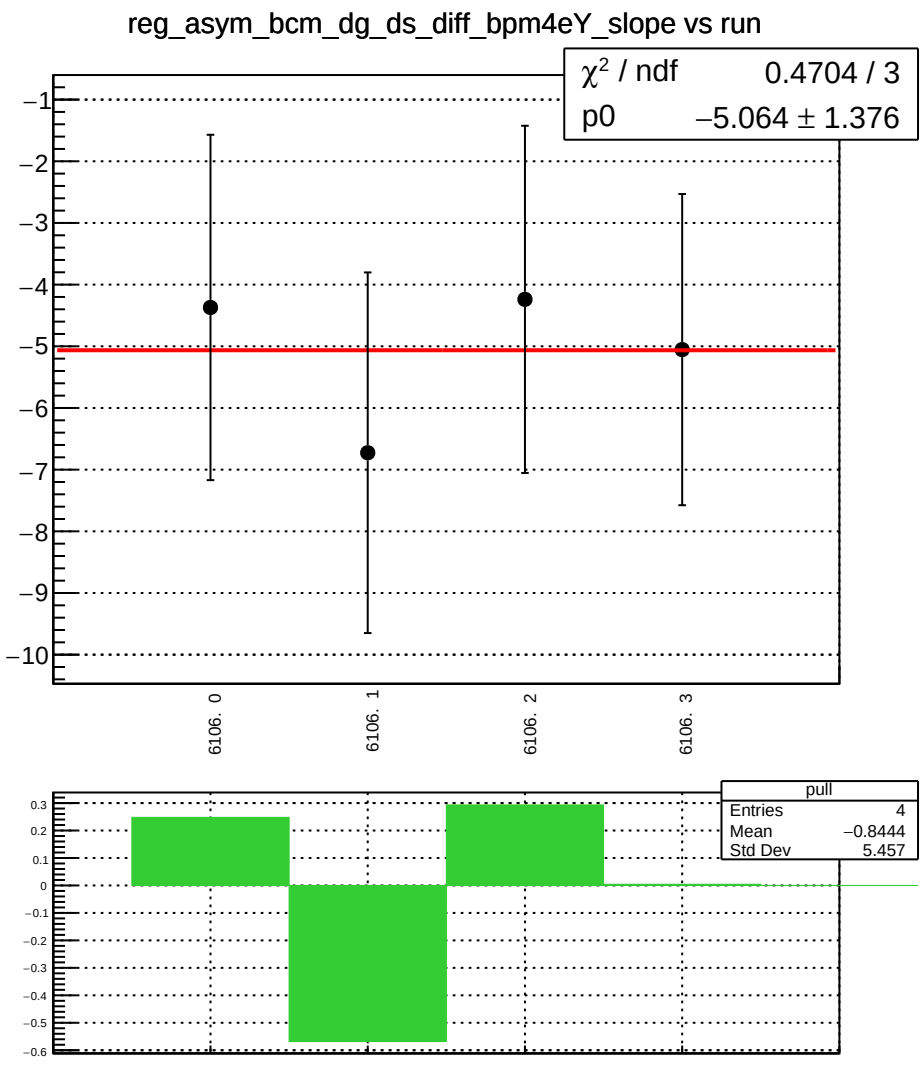

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 2.634 / 3
p0 1.276 ± 2.019
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 66.2
Std Dev 64.4

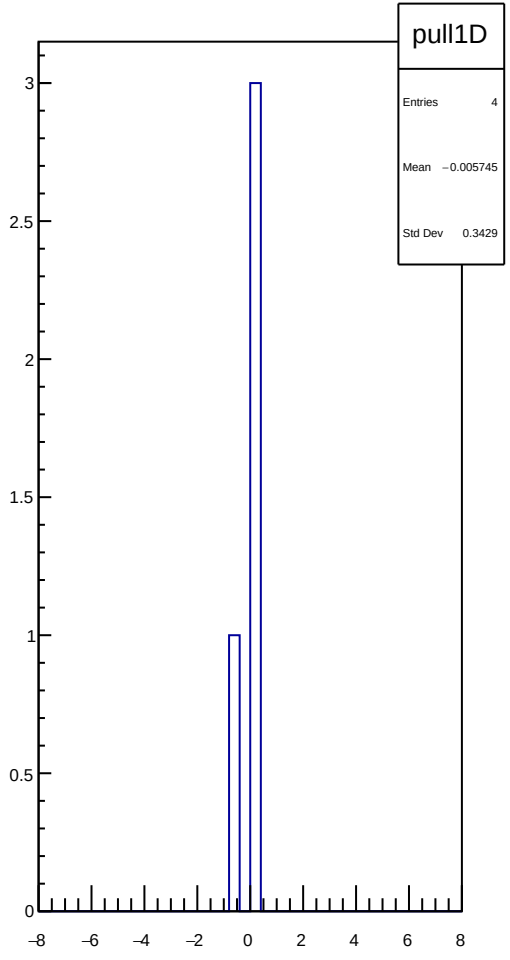

pull1D
Entries 4
Mean −0.01236
Std Dev 0.8114

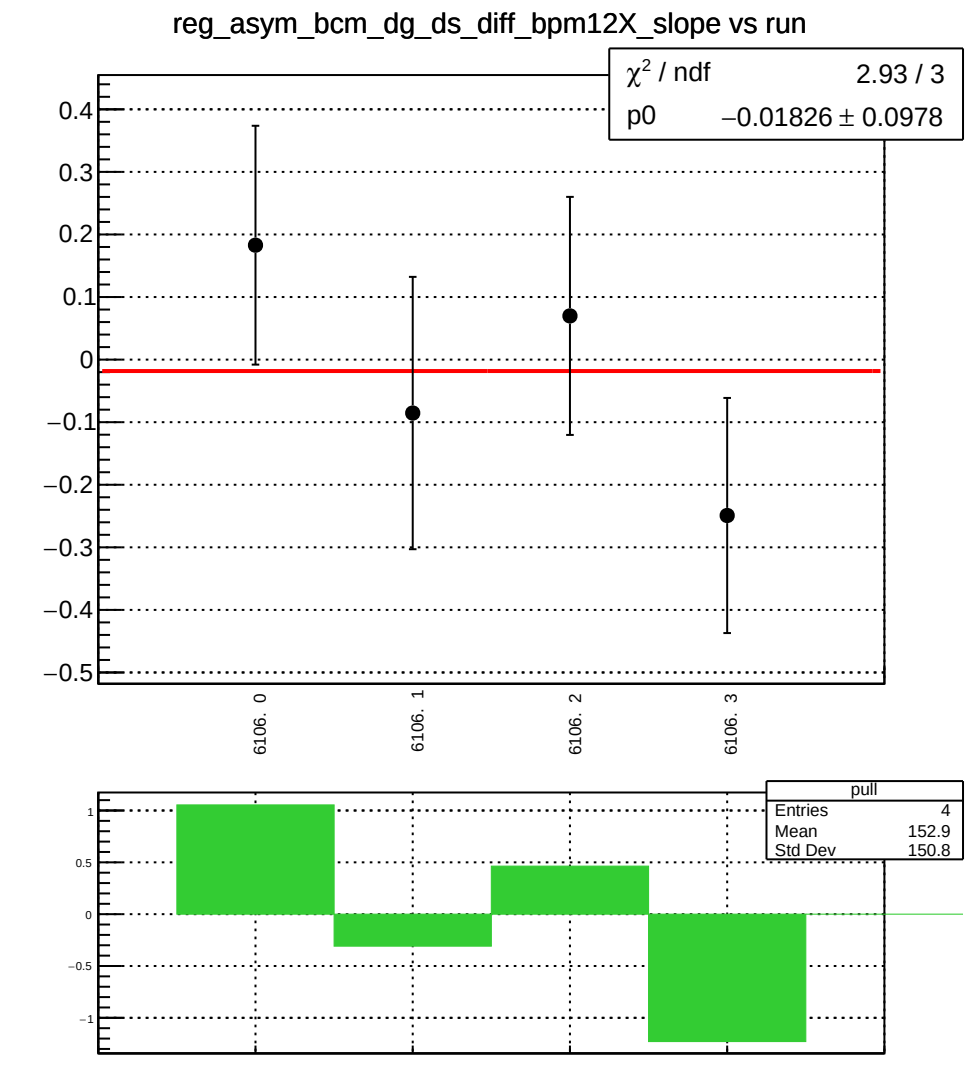

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 0.2608 / 3
p0 4.968 ± 1.301
9
8
7
6
5
4
3
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −13.47
Std Dev 16.3
0.4
0.3
0.2
0.1
0
−0.1
pull1D
Entries 4
Mean 0.005491
Std Dev 0.2553
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

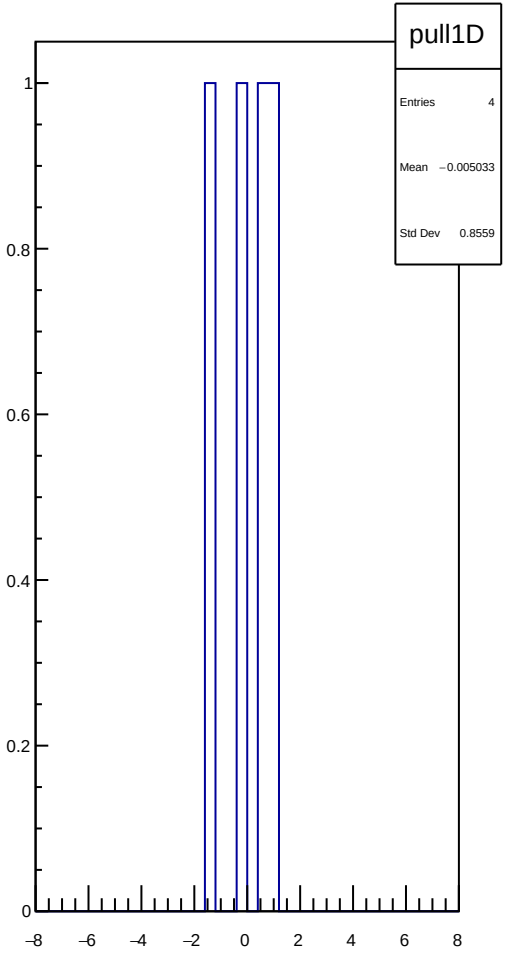

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2.561 / 3
p0 −1.86 ± 2.349
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 62.52
Std Dev 60.74

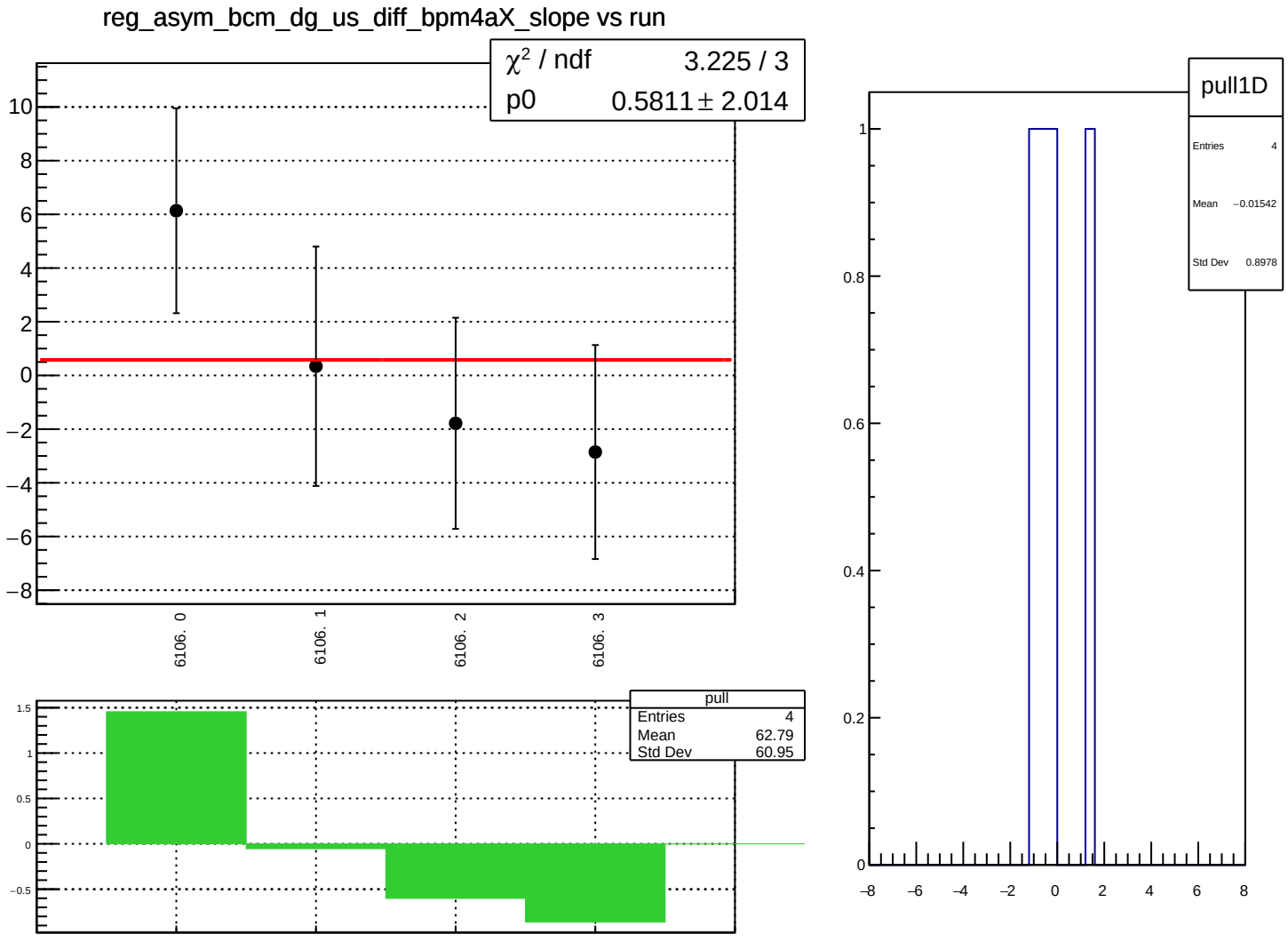

pull1D
Entries 4
Mean 0.01261
Std Dev 0.8001

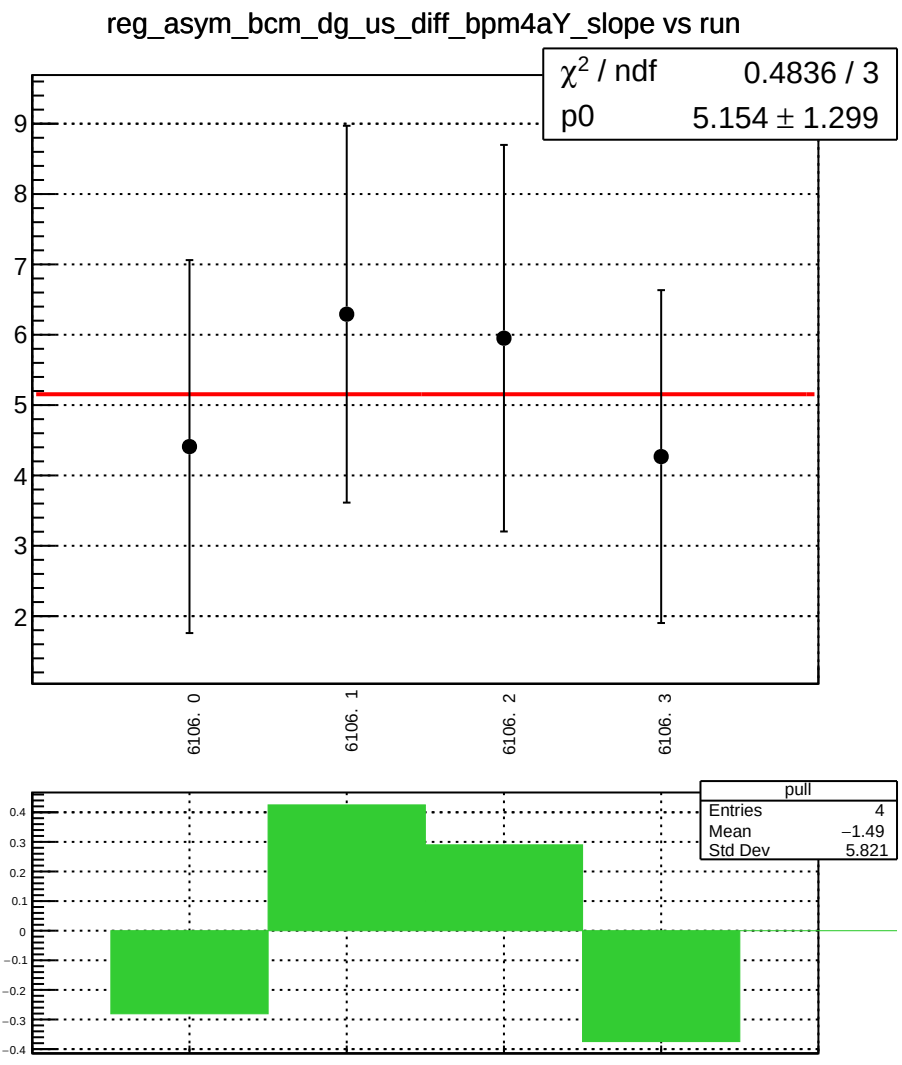

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 0.4704 / 3
p0 −5.064 ± 1.376
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −0.8444
Std Dev 5.457

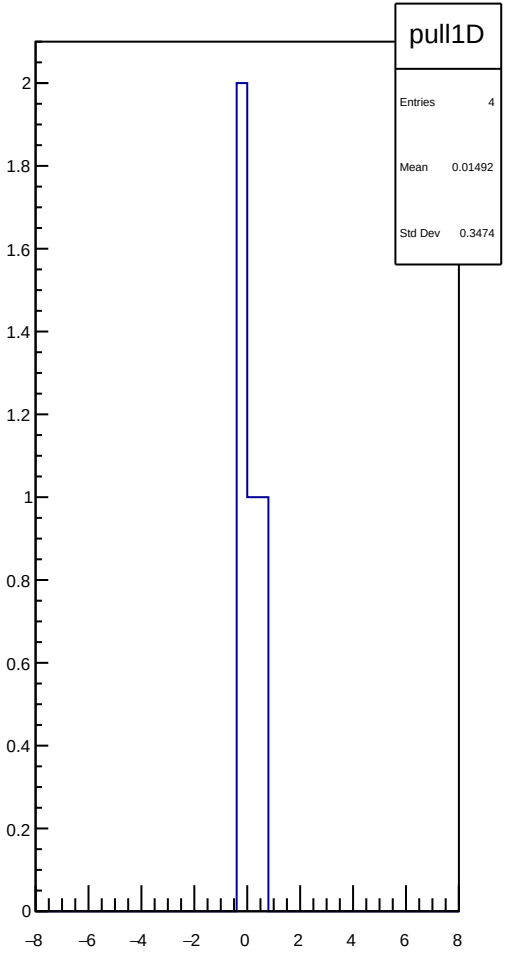

pull1D
Entries 4
Mean −0.005745
Std Dev 0.3429

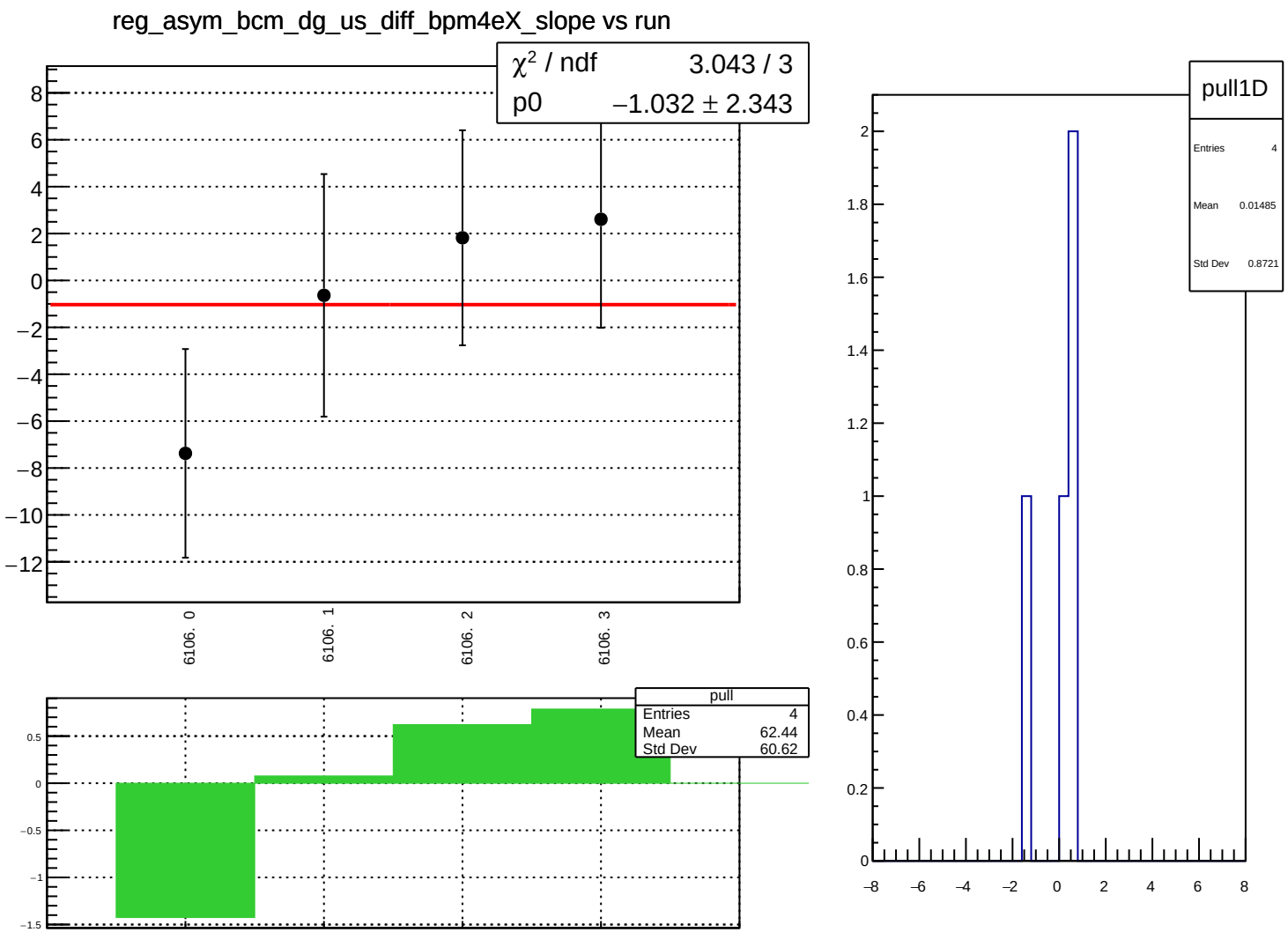

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 2.93 / 3
p0 −0.01826 ± 0.0978
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 152.9
Std Dev 150.8
1
0.5
0
−0.5
−1

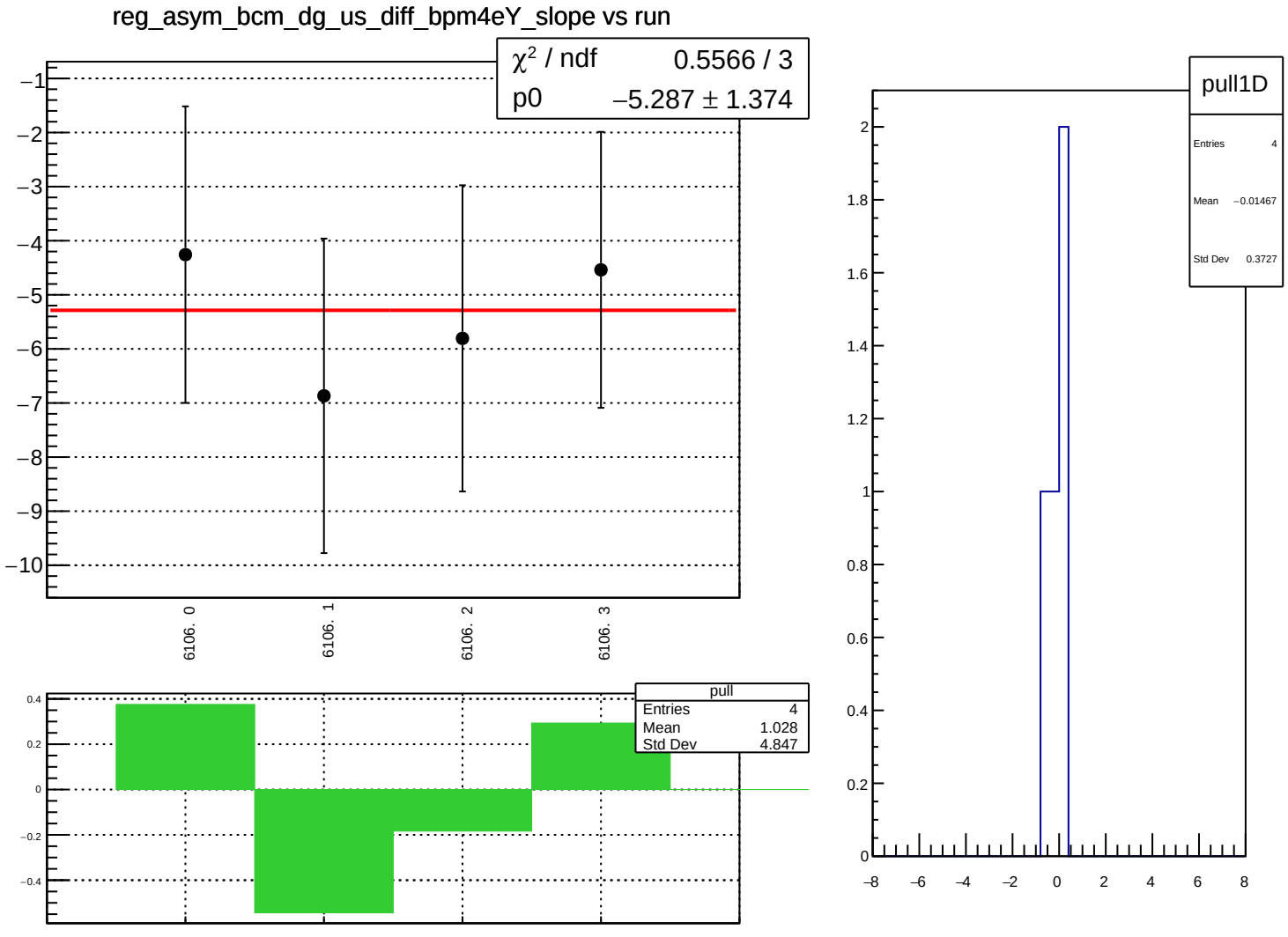

pull1D
Entries 4
Mean −0.005033
Std Dev 0.8559
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

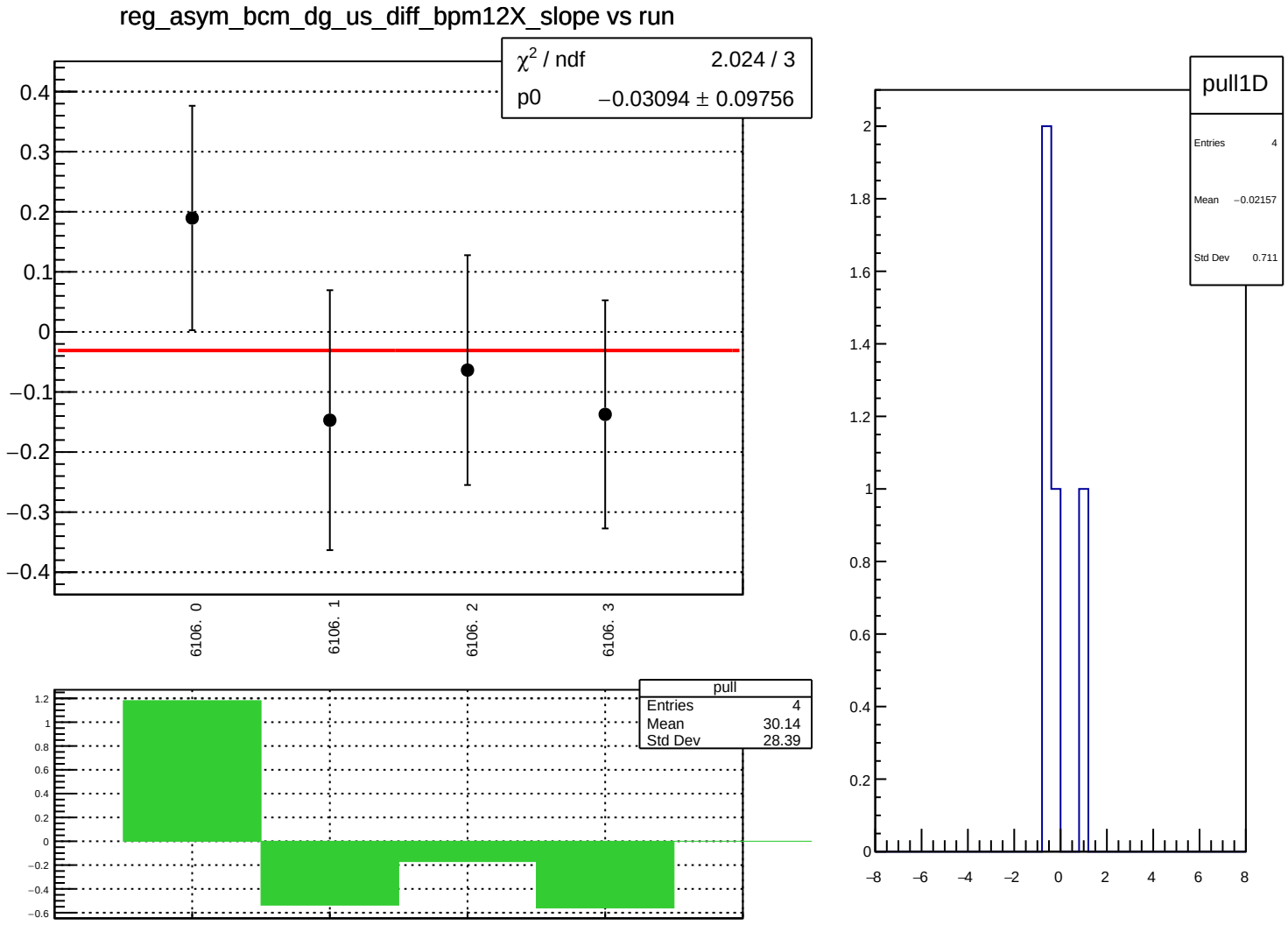

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 3.225 / 3
p0 0.5811 ± 2.014
10
8
6
4
2
0
−2
−4
−6
−8
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 62.79
Std Dev 60.95
1.5
1
0.5
0
−0.5
pull1D
Entries 4
Mean −0.01542
Std Dev 0.8978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 0.4836 / 3
p0 5.154 ± 1.299
9
8
7
6
5
4
3
2
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean −1.49
Std Dev 5.821
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4


pull1D
Entries 4
Mean 0.01492
Std Dev 0.3474
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 3.043 / 3
p0 −1.032 ± 2.343
8
6
4
2
0
−2
−4
−6
−8
−10
−12
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 62.44
Std Dev 60.62
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean 0.01485
Std Dev 0.8721
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 0.5566 / 3
p0 −5.287 ± 1.374
−1
−2
−3
−4
−5
−6
−7
−8
−9
−10
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 1.028
Std Dev 4.847
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.01467
Std Dev 0.3727
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 2.024 / 3
p0 −0.03094 ± 0.09756
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6106. 0
6106. 1
6106. 2
6106. 3
pull
Entries 4
Mean 30.14
Std Dev 28.39
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.02157
Std Dev 0.711
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8